

# TEST REPORT

**Reference No.**..... : WTF23D05104063W003  
**FCC ID** ..... : 2AYBO-SPSG2BT  
**Applicant**..... : JVCKENWOOD USA Corporation  
**Address**..... : 4001 Worsham Ave, Long Beach, CA 90808, USA  
**Manufacturer** ..... : Hong Kong Etech Groups Ltd.  
**Address**..... : RM 747, 7/F STAR HSE 3, SALISBURY RD TST, Hong Kong  
**Product**..... : Bluetooth Speaker  
**Model(s)** ..... : SP-SG2BT  
**Standards**..... : 47CFR FCC Part 2 Subpart J Section 2.1093  
**Date of Receipt sample** .... : 2023-06-01  
**Date of Test** ..... : 2023-06-01 to 2023-06-08  
**Date of Issue**..... : 2023-07-11  
**Test Result**..... : **Pass**

**Remarks:**

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

**Prepared By:**

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### 3. Revision History

Test Report No.	Date of Receipt Sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTF23D05104063W003	2023-06-01	2023-06-01 to 2023-06-08	2023-07-11	Original	-	Valid

## 4. General Information

### 4.1. General Description of E.U.T.

Product:	Bluetooth Speaker
Model(s):	SP-SG2BT
Bluetooth Version:	V5.3(BLE is not supported)
Hardware Version:	BS454-V3.0
Software Version:	BP18454(JVC-SPSG2BT)_6969D_Jq202305

### 4.2. Details of E.U.T.

Operation Frequency:	2402~2480MHz
Max. RF output power:	-1.77dBm
Type of Modulation:	GFSK, $\pi/4$ DQPSK
Antenna installation:	Inverted F Antenna
Antenna Gain:	-0.68dBi
Ratings:	DC 5V from type-C USB port or DC 3.7V from battery
Battery:	DC 3.7V 600mAh 2.22Wh
Accessory:	USB cable USB type A plug to USB type C plug, length 30cm

Note: for more details, please refer to user manual and EUT photos.

### 4.3. Test Facility

The test facility has a test site registered with the following organizations:

**ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.**

Waltek Testing Group Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration number 7760A, October 15, 2016.

**FCC Designation No.: CN1201. Test Firm Registration No.: 523476.**

Waltek Testing Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration number 523476, September 10, 2019.

### 4.4. Subcontracted

Whether parts of tests for the product have been subcontracted to other labs:

Yes       No

If Yes, list the related test items and lab information:

Test Lab:      N/A

Lab address: N/A

Test items:    N/A

### 4.5. Abnormalities from Standard Conditions

None.

## 5. Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	47CFR FCC Part 2 Subpart J § 2.1093	PASS

## 6. RF Exposure

Test Requirement: 47CFR FCC Part 2 Subpart J § 2.1093

Evaluation Method: 47CFR FCC Part 1 Subpart I §1.1307,

KDB 447498 D01 General RF Exposure Guidance v06

### 6.1. Procedures and Requirements

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.

For 100 MHz to 6 GHz and test separation distances  $\leq 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  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
- The result is rounded to one decimal place for comparison

When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm according to 4.1 f) 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.

### 6.2. Calculation Method

$$\text{Result} = P \sqrt{F} / D$$

P= Maximum turn-up power in mW

F= Channel frequency in GHz

D= Minimum test separation distance in mm

### 6.3. Test Result

A distance of 5mm normally can be maintained between the user and the device.

Modulation	CH	Freq. (GHz)	Max Power (dBm)	Max. Tune-up Power (dBm)	Max. Tune-up Power (mW)	Distance (mm)	Result	Limit
GFSK	High	2.480	-2.36	-1.36	0.731	5	0.23	3
$\pi/4$ DQPSK	High	2.480	-1.77	-0.77	0.838	5	0.26	3

**Conclusion:**

No SAR measurement is required.

=====**End of Report**=====