

FCC TEST REPORT

FCC ID: OXGAB50

Product : Show lights music

Model Name : AB50

Brand : **show**lights

Report No. : PT800162160120E-FC02

Prepared for

Willis Electric Co., Ltd.
No.504-1, Chung-Hua Road, Sec.4,
Hsin Chu, Taiwan

Prepared by

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**TEST RESULT CERTIFICATION**

Applicant's name : Willis Electric Co., Ltd.
Address : No.504-1, Chung-Hua Road, Sec.4, Hsin Chu, Taiwan
Manufacturer's name : Kupoint (DongGuan) Electric Co., Ltd
Address : Huai De Industrial Humen Town Dong Guan City Guang Dong Provience, China
Product name : Show lights music
Model name : AB50
Standards : FCC CFR47 Part 1.1307(b)(1)
Test procedure : KDB 447498 D01 General RF Exposure Guidance v06
Test Date : Jan. 21, 2016 ~Feb. 26, 2016
Date of Issue : Mar. 2, 2016
Test Result : Pass

This device described above has been tested by PTS, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Testing Engineer

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2 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS

Remark:

N/A: Not Applicable

3 General Information

3.1 General Description of E.U.T.

Product Name : Show lights music
Model Name : AB50
Model Description : Only the model names are different.
Bluetooth Version: : V2.1+EDR
Frequency Range: : 2402-2480MHz, 79 channels
Antenna installation: : PCB Printed Antenna
Antenna Gain: : 0dBi
Type of Modulation : GFSK, Pi/4DQPSK, 8DPSK
The lowest oscillator: : 26MHz
Power supply : DC 30V 0.5A Power from adapter
Adapter : Input:AC100-240V,50/60Hz,0.5A Output: DC 30V 0.5A

4 RF Exposure

Test Requirement: FCC Part 1.1307

Evaluation Method: KDB 447498 D01 General RF Exposure Guidance v06

4.1 Requirements

1) 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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [f(\text{GHz})]$ 3.0 for 1-g SAR and 7.5 for 10-g extremity SAR where

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz
2. Power and distance are rounded to the nearest mW and mm before calculation
3. The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is 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.

4.2 The procedures / limit

Conducted Peak power(dBm)	Conducted Peak power(mW)	Source-based time-averaged maximum conducted output power(mW)	Minimum test separation distance required for the exposure conditions (mm)	SAR Test Exclusion Thresholds(mW)
1.0	1.26	1.26	5	9.525

Remark:

The power tune up tolerance is $0 \pm 1 \text{ dBm}$

Max. duty factor is 100%

Calculation formula: Source-based time-averaged maximum conducted output power(mW)
 $= \text{Conducted peak power(mW)} \cdot \text{Duty factor}$

*****THE END REPORT*****