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# **RED-Health Test Report**

Client Name : Sariana LLC

Address 7365 Mission Gorge Road Suite G San Diego, CA 92120,

U.S.A.

Product Name : Bluetooth Keypad

Date : Aug. 01, 2019

## **Shenzhen Anbotek Compliance Laboratory Limited**



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#### TEST REPORT

Applicant : Sariana LLC

Manufacturer : B&W ELECTRONICS DEVELOPMENT LTD

Product Name : Bluetooth Keypad

Model No. : ST-XLABK, ST-XLABKM, ST-XLABKS, ST-XLABKG, ST-XLABKK

Trade Mark : Satechi

Rating(s) : Input: DC 5V, 100mA(with DC 3.7V, 110 mAh Battery inside)

Test Standard(s) : EN 62479: 2010

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. This report shows the EUT to be technically compliant with the EN 62479: 2010 requirements. The test results are contained in this report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full responsibility for the accuracy and completeness of these tests.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt	Jul. 10, 2019
Date of Test	Jul. 16~24, 2019
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	(Supervisor / Snowy Meng)
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	(Manager / Sally Zhang)

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### 1. General Information

### 1.1. Client Information

Applicant	: Sariana LLC	Anbotek
Address	: 7365 Mission Gorge Road Suite G San Diego, CA 92120, U.S.A.	k Aupo
Manufacturer	: B&W ELECTRONICS DEVELOPMENT LTD	loter by
Address	3/F, Building B, Heshengjia Industrial Park, No.154 Huating Road, Street, Longhua District, Shenzhen, China	Dalang
Factory	: B&W ELECTRONICS DEVELOPMENT LTD	Anbote.
Address	3/F, Building B, Heshengjia Industrial Park, No.154 Huating Road, Street, Longhua District, Shenzhen, China	Dalang

### 1.2. Description of Device (EUT)

Product Name	:	Bluetooth Keypad	Anbotek Anbotek Anbotek Anbotek
Model No.	:	16 VPC 17	-XLABKS, ST-XLABKG, ST-XLABKK me except the model name and the color, so est only.)
Trade Mark	:	Satechi	
Test Power Supply	:	DC 3.7V Battery inside	Anbotek Anbotek Anbotek Anbotek
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(	Engineering Sample)
		Operation Frequency:	2402~2480MHz
		Transfer Rate:	1 Mbits/s
		Number of Channel:	79 Channels
Product Description	:	Modulation Type:	GFSK Anbotek Anbotek Anbotek
		Antenna Type:	PCB Antenna
		Antenna Gain(Peak):	1.87 dBi nootek Anbotek Anbotek
		Max. Transmitting Power:	-1.14 dBm Max.

Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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1.3. Auxilia	ary Equi	pment U	sed Duri	ing Test
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N/A		Anbot	Andotek	Anbotek	Anbo	Vupotek	Anboro

#### 1.4. Description of Test Facility

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

#### FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed 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 No. 184111, September 30, 2018.

#### ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A, March 07, 2019.

#### **Test Location**

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102

Hotline 400-003-0500

www.anbotek.com



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#### 1.5. Measurement Uncertainty

Parameter	Uncertainty				
Occupied Channel Bandwidth	±5 %				
RF output power, conducted	Anbotek Anbotek Anbotek Anbotek				
Power Spectral Density, conducted	tek Anbotes Anb +3 dB Anbotek Anb				
Unwanted Emissions, conducted	ho atek Anbotek ±3 dB Anbotek				
All emissions, radiated	Arbotek Anbotek ±6 dB botek Anbotek				
Temperature Amborek	Anbotek Anbote +1 °C Anbotek Anbotek				
Humidity Anbotek Anbotek Anbotek	±5 %				
DC and low frequency voltages	±3 %				
Time Anbotek Anbotek Anbotek	±5 %				
Duty Cycle	±5 %				

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#### 2. GENERAL PRODUCT INFORMATION

#### 2.1. Product Function and Intended Use

The submitted sample is wireless transceiver includes transmitter and receiver.

#### 2.2. Ratings and System Detail

otek anbotek	Aupor	Transmitter	nbotek	Anbore
Frequency Range	Anbo.	2402~2480MHz		
Power Supply	: Ma	DC 3.7V Battery inside	hotek	Ant



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#### 3. EN 62479 REQUIREMENT

#### 3.1. General Description of Applied Standards

Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz).

#### 3.2. Human exposure to the Electromagnetic fields

This International Standard provides simple conformity assessment methods for low-power electronic and electrical equipment to an exposure limit relevant to electromagnetic fields (EMF). If such equipment cannot be shown to comply with the applicable EMF exposure requirements using the methods included in this standard for EMF assessment, then other standards, including IEC 62311 or other (EMF) product standards, may be used for conformity assessment.

#### 3.3. RF Exposure Evaluation

#### 3.3.1. Limit:

According to EN 62479 clause 4.2 Low-power electronic and electrical equipment is deemed to comply with the provisions of this standard if it can be demonstrated using routes B, C or D that the available antenna power and/or the average total radiated power is less than or equal to the applicable low-power exclusion level Pmax.

P max = 20 mW (13.1dBm) according to ICNIRP guidelines, since the EUT is General public used. Remark:

- B: The input power level to electrical or electronic components that are capable of radiating electromagnetic energy in the relevant frequency range is so low that the available antenna power and/or the average total radiated power cannot exceed the low-power exclusion level defined in EN 62479 clause 4.2
- C: The available antenna power and/or the average total radiated power are limited by product standards for transmitters to levels below the low-power exclusion level defined in EN 62479 clause 4.2
- D: Measurements or calculations show that the available antenna power and/or the average total radiated power are below the low-power exclusion level defined in EN 62479 clauses 4.2.

#### 3.3.2. Test result

The EIRP of the EUT which are below the max permitted sending level of 20 mW, and then the EUT is not need to conduct SAR measurement.

More details please refer to SZAWW190716001-04W.

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