



RF EXPOSURE REPORT

For

Xiamen Aorui Electronics Co.,Ltd.

Room 302-5, 3rd Floor, No. 2, Malong Road, Torch Park, Torch High-tech Zone, Xiamen, China.

FCC ID: 2BDQ3AR-890

Report Type: Original Report	Product Name: Wireless Programmer
Report Number:	2507R04478E-RF-02
Report Date:	2025-07-18
Reviewed By:	Ash Lin 
Approved By:	Miles Chen
Prepared By:	Bay Area Compliance Laboratories Corp. (Xiamen) Unit 102, No. 902 Meifeng South Road, Binhai West Avenue, Science and Technology Innovation Park, Torch High tech Zone XiaMen Tel: +86-592-3200111 www.baclcorp.com.cn

TABLE OF CONTENTS

REPORT REVISION HISTORY.....3

GENERAL INFORMATION.....4

 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)4

 OBJECTIVE4

 TEST FACILITY4

RF EXPOSURE EVALUATION5

APPENDIX A - EUT PHOTOGRAPHS6

REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	2507R04478E-RF-02	R1V1	2025-07-18	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	Xiamen Aorui Electronics Co.,Ltd.
Product Name:	Wireless Programmer
Tested Model:	ABBREE AR-890
Multiple Model(s):	BAOFENG BF-890
Trade mark:	ABBREE, AIRITON, BAOFENG
Power Supply:	DC 3.7V from battery or DC 5V from USB port
Maximum Peak Conducted Output Power:	-3.9dBm
Operating Band/Frequency:	2402-2480MHz
Antenna Type:	PCB Antenna
★Maximum Antenna Gain:	0 dBi
EUT Received Status:	Good
<i>Note:</i> 1. The Maximum Antenna Gain was declared by manufacturer. 2. The test model is identify with the series model except for the model name and trade mark, please refer to declaration letter for more detail. 3. The EUT supplied by the applicant was received on 2025-03-10	

Objective

This test report is prepared for *Xiamen Aorui Electronics Co.,Ltd.* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commissions rules.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Xiamen) to collect test data is located on the Unit 102, No. 902 Meifeng South Road, Binhai West Avenue, Science and Technology Innovation Park, Torch High tech Zone XiaMen.

RF EXPOSURE EVALUATION

Applicable Standard

According to §2.1093, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline

According to KDB447498 D01 General RF Exposure Guidance v06

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:

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

$f(\text{GHz})$ 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

3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

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 according to 5) in section 4.1 is applied to determine SAR test exclusion.

Measurement Result

The max conducted power including tune-up tolerance is -3 dBm (0.5 mW).

$$\left[\frac{\text{(max. power of channel, mW)}}{\text{(min. test separation distance, mm)}} \right] [\sqrt{f(\text{GHz})}]$$
$$= 0.5/5 * (\sqrt{2.480}) = 0.16 < 3.0$$

Result: Compliant. The stand-alone SAR evaluation is not necessary.

APPENDIX A - EUT PHOTOGRAPHS

Please refer to the attachment 2507R04478E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2507R04478E-RF-INP EUT INTERNAL PHOTOGRAPHS.

Declarations

1. Bay Area Compliance Laboratories Corp. (Xiamen) is not responsible for authenticity of any information provided by the applicant. Information from the applicant that may affect test results are marked with an asterisk “★”.
2. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.
3. Unless required by the rule provided by the applicant or product regulations, then decision rule in this report did not consider the uncertainty.
4. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95% confidence interval.
5. This report cannot be reproduced except in full, without prior written approval of Bay Area Compliance Laboratories Corp. (Xiamen).
6. This report is valid only with a valid digital signature. The digital signature may be available only under the adobe software above version 7.0.

******* END OF REPORT *******