



# **RF Exposure Evaluation Declaration**

Report No.: S202311207626E05 Issue Date: 01-05-2024

Applicant: ANDON HEALTH CO., LTD.

Address: No.3 JinPing Road, Nankai District, Tianjin, China 300190

FCC ID: ZRY5811BT

Application Type: Certification

Product: WIRELESS BLOOD PRESSURE MONITOR

Model No.: KD-5811BT, KD-5810BT, KD-5920BT

Trade Mark: andon

CFR 47, FCC Part 2.1091 Radio frequency radiation **FCC Rule Part(s):** 

exposure evaluation: mobile devices.

Item Receipt date: November 20, 2023

**Test Date:** Nov 25 ~ Dec 20, 2023

Stone Zhang

Compiled Dv	
Compiled By	(Stone Zhang)
	Senior, Test Engineer
Approved By	Line Chen
	(Line Chen)
	Engineer Manager
	ENNE CO.LTS
	APPROVED(02)

The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 558074 D01. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of Fangguang Inspection & Testing Co., Ltd. Wuxi Branch

The test report must not be used by the client to claim product certifications, approval, or endorsement by NVLAP, NIST or any agency of U.S. Government.

# **Revision History**

Report No.	Version	Description	Issue Date
S202311207626E05	Rev. 01	/	01-05-2024



## 1. PRODUCT INFORMATION

### 1.1. Equipment Description

Product Name:	WIRELESS BLOOD PRESSURE MONITOR		
Model Name:	KD-5811BT		
Additional Model:	KD-5810BT, KD-5920BT		
	The EUT Devices Model KD-5811BT, KD-5810BT, KD-5920BT are the		
Model Description:	same on the board, schematic, hardware version, but have some minor		
	differences in software versions, structure and the model name.		
Trade Mark:	andon		
Input Voltage Range:	KD-5811BT: Adapter: Input 100-240V $\sim$ 50/60 Hz, 0.2A Output 5.0V –		
	1.0A, 5.0W		
	Battery: 6V 0.6A		
	KD-5810BT: Adapter: Input 100-240V $\sim$ 50/60 Hz, 0.2A Output 5.0V –		
	1.0A, 5.0W		
	Battery: 6V 0.6A		
	KD-5920BT: Battery: 6V 0.6A		
Bluetooth Version:	5.2		

### **1.2. Product Specification Subjective to this Report**

Frequency Range:	BLE:2402~2480MHz
Data Rate:	BLE:1Mbps
Antenna Type:	PCB Antenna
Antenna Gain:	BLE:0.01dBi



### 2. RF Exposure Evaluation

#### 2.1. Limits

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 Standalone SAR test exclusion considerations: "Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions;

for example, handheld PTT two-way radios, handsets, laptops & tablets etc. "

[(max. power of channel, including tune-up tolerance, mW)/ (min. test separation distance, mm)] • [VF (GHz)]  $\leq$  3.0 for 1-g SAR and  $\leq$  7.5 for 10-g extremity SAR, where:

- f (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  $\leq 50$  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 f) in section 4.1 is applied to determine SAR test exclusion.



#### 2.2. Calculation Method

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]  $\, \cdot \, [\, \sqrt{f(GHz)}] \, \leqslant \, 3.0$ 

Conducted Power + tune up tolerance =-2.85dBm+0.1=0.53mW Distance = 5 mm f =2.441

 $\begin{array}{l} [0.53/5] * \mbox{SQRT}(2.441) = 0.26 \\ 0.26 \ \leqslant \ 3.0 \\ \mbox{Therefore, excluded from SAR testing.} \end{array}$ 

#### CONCULISON:

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

- The End