

# RF Exposure Evaluation Report

Product Name : Automatic Upper Arm Type Blood Pressure Monitor

Model No. : HL858CG

FCC ID : 2ABTAHNL85CG2

Applicant : Health & Life Co. Ltd.

Address : 9F., No. 186, Jian Yi Road, Zhonghe District, New  
Taipei City, Taiwan

Date of Receipt : Aug. 24, 2021

Date of Declaration : Sep. 14, 2021

Report No. : 2180999R-RFUSMPEV02

Report Version : V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

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Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

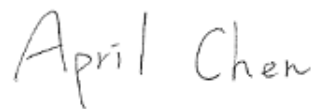
Issued Date: Sep. 14, 2021

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|                     |   |   |
|---------------------|---|---|
| Product Name        | Automatic Upper Arm Type Blood Pressure Monitor                       |   |
| Applicant           | Health & Life Co. Ltd.  |   |
| Address             | 9F., No. 186, Jian Yi Road, Zhonghe District, New Taipei City, Taiwan |   |
| Manufacturer        | Health & Life Co. Ltd.  |   |
| Model No.           | HL858CG   |   |
| FCC ID.             | 2ABTAHNL85CG2   |   |
| Trade Name          | Health & Life   |   |
| Applicable Standard | KDB 447498 D01 v06  | <input type="checkbox"/> Minimum test separation distance $\geq 20$ cm<br><input checked="" type="checkbox"/> For low power devices |
| Test Result         | Complied  |   |

Documented By :



(Senior Project Specialist / April Chen)

Tested By :



( Supervisor / Wen Lee )

Approved By :



( Manager / Tim Sung )

## **Revision History**

| <b>Report No.</b>   | <b>Version</b> | <b>Description</b>       | <b>Issued Date</b> |
|---------------------|----------------|--------------------------|--------------------|
| 2180999R-RFUSMPEV02 | V1.0           | Initial issue of report. | Sep. 14, 2021      |

## 1. GENERAL INFORMATION

### 1.1. EUT Description

|                    |   |
|--------------------|---|
| Product Name       | Automatic Upper Arm Type Blood Pressure Monitor |
| Trade Name         | Health & Life                                   |
| Model No.          | HL858CG   |
| FCC ID.            | 2ABTAHNL85CG2                                   |
| Frequency Range    | 2402-2480MHz                                    |
| Channel Separation | 2MHz  |
| Channel Number     | 40CH  |
| Type of Modulation | GFSK  |
| Antenna Type       | PCB Antenna                                     |
| Antenna Gain       | Refer to the table “Antenna List”               |

#### Antenna List

| No. | Manufacturer | Part No.   | Antenna Type | Peak Gain           |
|-----|--------------|------------|--------------|---------------------|
| 1   | LaBest       | LB-BLE-005 | PCB Antenna  | 2.23dBi for 2.4 GHz |

## 2. RF Exposure Evaluation

### 2.1. Standard Applicable

According to 1.1307 (b)(1), 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.

### 2.2. Measurement Result:

According to KDB Publication 447498 D01, section 4.3.1, per the calculations of item 1  $(\text{Power(mW)}/\text{separation (mm)} \cdot \sqrt{f(\text{GHz})} \leq 3.0)$ , SAR is required as shown in the table below where calculated values are greater than 3.0:

Operation frequency = 2450MHz and antenna separation distance = 5mm

Body SAR Test Exclusion Threshold = 10mW

| Frequency Band (MHz) | Maximum peak output power<br>Peak Gain: 2.23dBi |               |              | SAR Test<br>Exclusion Threshold | Calculated Threshold Value<br>( $\leq 3.0$ SAR is not required) |
|----------------------|---|---------------|--------------|---------------------------------|---|
|                      | conducted<br>(dBm)                              | EIRP<br>(dBm) | EIRP<br>(mW) | (mW)                            |   |
| 2402                 | 2.1   | 4.33          | 2.71         | 10                              | 0.840   |

Note1: The SAR/MPE measurement is not necessary.

Note2: The maximum peak output power is refer to report No.: 2180999R-RFUSBLEV01 from the DEKRA.