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

Testing Laboratory
3023

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.
The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
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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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	☐ Minimum test separation distance ≥ 20 cm ☒ For low power devices
Test Result	Complied	

Documented By : April Chen

(Senior Project Specialist / April Chen)

Tested By : wen Lee

(Supervisor / Wen Lee)

Approved By : Tim Sung

(Manager / Tim Sung)

Revision History

Report No.	Version	Description	Issued Date
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 (Power(mW)/separation (mm)*sqrt(f(GHz)≤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 Peak Gain: 2.23dBi			SAR Test Exclusion Threshold	Calculated Threshold Value (≦3.0 SAR is not required)
	conducted (dBm)	EIRP (dBm)	EIRP (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.