

**RF EXPOSURE REPORT**

**FCC Applicant:** K-jump Health Co., Ltd.  
No.56, Wu Kung 5th Rd., New Taipei, Industrial Park, New  
Taipei City 24890, Taiwan

**Product Name:** Medical device

**Brand Name:** Polygreen

**Model No.:** KP-6650

**Report Number:** ES/2021/C0002

**FCC ID** RYZKP-6XXX-650

**Issue Date:** Jun. 21, 2022

**Date of EUT Received:** This report is only calculated based on the test results, there will be no date of EUT received.

**Approved By**

*John Yeh*

**We hereby certify that:**

The above equipment was evaluated by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §2.1093.

The results of this report relate only to the sample identified in this report.

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## Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
ES/2021/C0002	00	Original	Apr. 14, 2022	Kimmy Chiou	*
ES/2021/C0002	01	Modify comment	Jun. 21, 2022	Kimmy Chiou	

**Note:**

- 1、The remark "\*" indicates modification of the report upon requests from certification body.

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## 1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

### 1.1 Product Description

Product Name:	Medical device
Brand Name:	Polygreen
Model No.:	KP-6650
Power Supply:	4.5Vdc

### 1.2 Reference Test Report

Test Lab:	SGS Taiwan Ltd. Central RF Lab
Report Number:	ER-2021-C0002

### 1.3 Antenna Information:

#### 1.3.1 WLAN 2.4GHz

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PCB	Amiccom	A8107	2.4GHz	-4.52

**Note:** Antenna information is provided by the applicant.

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## 2 RF EXPOSURE EVALUATION FOR PORTABLE CONDITIONS

### 2.1 FCC 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.

#### 2.1.1 As per KDB 447498 D01 4.3.1,

**Step a:** For 100 MHz to 6 GHz and test separation distances  $\leq 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot \sqrt{f(\text{GHz})} \leq 3.0$  for 1-g Head & Body SAR and  $\leq 7.5$  for 10-g extremity Hand SAR, where

- $f(\text{GHz})$  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
- The values 3.0 and 7.5 are referred to as numeric thresholds in **step b)** below

**Step b:** For 100 MHz to 6 GHz and test separation distances  $> 50$  mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following (also illustrated in Appendix B):

- 1)  $\{[\text{Power allowed at numeric threshold for } 50 \text{ mm in step a}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150)]\} \text{ mW, for } 100 \text{ MHz to } 1500 \text{ MHz}$
- 2)  $\{[\text{Power allowed at numeric threshold for } 50 \text{ mm in step a}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot 10]\} \text{ mW, for } > 1500 \text{ MHz and } \leq 6 \text{ GHz}$

**Step c:** For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):

- 1) For test separation distances  $> 50$  mm and  $< 200$  mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by  $[1 + \log(100/f(\text{MHz}))]$
- 2) For test separation distances  $\leq 50$  mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by  $\frac{1}{2}$
- 3) SAR measurement procedures are not established below 100 MHz

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## 2.2 Measurement Result:

### Step a:

This is a portable device and the max. output power including tune-up tolerance is 0.278 (mW), lower than the threshold given and derived as formula given above, where

$$=0.278(\text{mW})/5(\text{mm})^2\sqrt{2.44(\text{GHz})} = 0.087 < 3.0$$

Frequency (MHz)	Max. output power including tune-up tolerance(dBm)	Max. output power including tune-up tolerance(mW)	Distance (mm)	Result	$\leq 3.0$ for 1-g SAR
2440	-5.56	0.278	5	0.087	TRUE

Both the maximum time-averaged power and effective radiated power (ERP) are less than the threshold  $P_{th}$  (mW), so the device can be excluded from SAR measurement.

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