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RF Exposure Evaluation Report

Product : Bluetooth Module

Trade mark : SKG

Model/Type reference : SKGBLEWS01

Serial Number : N/A

Report Number : EED32P80065902

FCC ID : 2AYVT-SKGBLEWS01

Date of Issue : Feb. 17, 2023

Test Standards : 47 CFR Part 1.1307

47 CFR Part 1.1310 47 CFR Part 2.1091 47 CFR Part 2.1093

447498 D04 Interim General RF

Exposure Guidance v01

Test result : PASS

Prepared for:

SKG Health Technologies Co., Ltd.

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Date:

Feb. 17, 2023

Aaron Ma

Check No.:8759160123









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Version No.	Date	Description	
00	Feb. 17, 2023	Original	
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4 General Information

4.1 Client Information

Applicant:	SKG Health Technologies Co., Ltd.
Address of Applicant:	23A Floor, Building 3, Zhongke R&D Park, No.009, Gaoxin South 1st Road, Hightech Zone Community, Yuehai street, Nanshan District, Shenzhen City, Guangdong Province, P.R.China
Manufacturer:	SKG Health Technologies Co., Ltd.
Address of Manufacturer:	23A Floor, Building 3, Zhongke R&D Park, No.009, Gaoxin South 1st Road, Hightech Zone Community, Yuehai street, Nanshan District, Shenzhen City, Guangdong Province, P.R.China

4.2 General Description of EUT

Product Name:	Bluetooth Module	
Model No.(EUT):	SKGBLEWS01	
Trade Mark:	SKG	

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz		
Modulation Type:	GFSK		(3)
Test Software of EUT:	WS8100 RF Test_V1.0.1		(25)
Antenna Type:	PCB Antenna		
Antenna Gain:	0.20dBi		
Power Supply:	DC 3.3V		
Sample Received Date:	Jan. 16, 2023		
Sample tested Date:	Jan. 16, 2023 to Feb. 03, 2023	(0.)	(0.)

Remark:

Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.







4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

4.7 Other Information Requested by the Customer





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5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula

$$P_{\text{th}} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\,\mathrm{cm}}\sqrt{f}}\right)$$

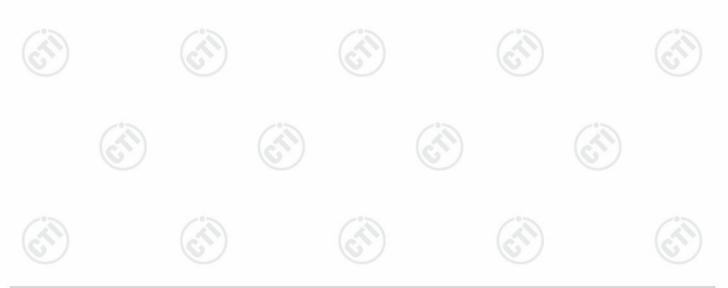
and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

$$P_{\text{th}} (\text{mW}) = ERP_{20 \text{ cm}} (\text{mW}) = \begin{cases} 2040f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$$
(B. 1)

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.







5.1.3 EUT RF Exposure Evaluation

For BLE

Frequency (MHz)	Separation distance(cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
2402	20	2.66	0.20	0.71	1.178	2.788	PASS

Note:

- ①EIRP=conducted power+antenna gain;
- **2ERP=EIRP-2.15**
- 30 Only the worst case data was recorded in the report.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.



