

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.

**23A Floor, Building 3, Zhongke R&D Park, No.009, Gaoxin South 1st
Road, High-tech Zone Community, Yuehai street, Nanshan District,
Shenzhen City, Guangdong Province, P.R.China**

Prepared by:

Centre Testing International Group Co., Ltd.**Hongwei Industrial Zone, Bao'an 70 District,****Shenzhen, Guangdong, China****TEL: +86-755-3368 3668****FAX: +86-755-3368 3385**

Compiled by:

Frazer Li

Frazer Li

Reviewed by:

Tom Chen

Tom Chen

Approved by:

Aaron Ma

Aaron Ma

Date:

Feb. 17, 2023



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2 Version

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, High-tech 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, High-tech 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
Test Software of EUT:	WS8100 RF Test_V1.0.1
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
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

None.

4.7 Other Information Requested by the Customer

None.

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 P_{th} (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). P_{th} is given by Formula

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

where

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

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

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

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:

- ① EIRP=conducted power+antenna gain;
- ② ERP=EIRP-2.15
- ③ 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.

*** End of Report ***