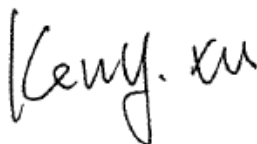


# SAR Evaluation Report

**Application No.:** SZCR2104020657AT  
**Applicant:** EuroCB (Phils.), Inc.  
**Address of Applicant:** SFB2, MEPZ1, Lapulapu City, 6015 Philippines  
**Manufacturer:** EuroCB (Phils.), Inc.  
**Address of Manufacturer:** SFB2, MEPZ1, Lapulapu City, 6015 Philippines  
**Factory:** Euro CB (Phils.) Inc.  
**Address of Factory:** SFB No 2, MEZ 1, Lapu Lapu City, 6015 Cebu, Philippines  
**Equipment Under Test (EUT):**  
**EUT Name:** SKI1M  
**Model No.:** SKI1M  
**Trade mark:** Supertooth  
**FCC ID:** 2AE5MSKI1M  
**Standards:** 47 CFR Part 1.1307  
 47 CFR Part 2.1093  
 KDB447498D01 General RF Exposure Guidance v06  
**Date of Receipt:** 2021-04-21  
**Date of Test:** 2021-04-24 to 2021-05-06  
**Date of Issue:** 2021-05-10

|                      |              |
|----------------------|--------------|
| <b>Test Result :</b> | <b>Pass*</b> |
|----------------------|--------------|

\* In the configuration tested, the EUT complied with the standards specified above.


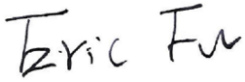


Keny Xu  
 EMC Laboratory Manager



## 2 Version

| Revision Record |         |            |          |          |
|-----------------|---------|------------|----------|----------|
| Version         | Chapter | Date       | Modifier | Remark   |
| 01              |         | 2021-05-10 |          | Original |
|                 |         |            |          |          |
|                 |         |            |          |          |

|                          |  |   |  |
|--------------------------|--|---|--|
| Authorized for issue by: |  |   |  |
|                          |  | <br><hr/> Harry Wu/Project Engineer |  |
|                          |  | <br><hr/> Eric Fu/Reviewer         |  |



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## 4 General Information

### 4.1 General Description of EUT

|                             |   |
|-----------------------------|---|
| Power supply:               | Input: DC 5.0V from Type C port<br>DC 3.7V Lithium-ion 200mAh 3.7Wh rechargeable battery (to be charged from Type C port) |
| Cable(s):                   | Type C Cable: 100cm, Unshielded   |
| Operation Frequency:        | 2402MHz to 2480MHz  |
| Bluetooth Version:          | V5.1  |
| Spectrum Spread Technology: | Frequency Hopping Spread Spectrum(FHSS)   |
| Modulation Type:            | GFSK, pi/4DQPSK, 8DPSK  |
| Number of Channels:         | 79  |
| Channel Spacing:            | 1MHz  |
| Antenna Type:               | PCB Antenna   |
| Antenna Gain:               | 1.6dBi  |



## 4.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China  
518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

## 4.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

## 4.4 Deviation from Standards

None.

## 4.5 Abnormalities from Standard Conditions

None.

## 4.6 Other Information Requested by the Customer

None.





## 5 SAR Evaluation

### 5.1 RF Exposure Compliance Requirement

#### 5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

##### 4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

#### 5.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR and  $\leq 7.5$  for 10-g extremity 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<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion

#### 5.1.3 EUT RF Exposure

The Max. power (including tune-up tolerance) is  $-1.2$  dBm on the highest channel  $2.48$  GHz (\*)  
 $-1.20$  dBm logarithmic terms convert to numeric result is nearly  $0.76$  mW

According to the formula. calculate the test exclusion thresholds:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$

$$\text{General RF Exposure} = (0.76 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.48 \text{ GHz}} = 0.24 \quad (1)$$

SAR requirement:

$$S = 3.0 \quad (2)$$

$$(1) < (2)$$

So the SAR report is not required.

(\*) Max. power refer to Report No.:SZCR210402065702

- End of the Report -

