

## Nemko Korea Co., Ltd.

165-51, Yurim-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, 17042, Republic of Korea.

TEL :+82 31 330-1700 FAX:+82 31 322 2332

### FCC EVALUATION REPORT FOR CERTIFICATION

**Project No. :** NK-23-R-354

**Dates of receipt :** November 17, 2023

**Applicant :** BASMANtechnology

**Dates of Issue :** November 24, 2023

#661, 150, JOJEONG-DAERO, HANAM-SI, GYEONGGI-DO, 12930, South Korea

**Test Site :**

Nemko Korea Co., Ltd.

**FCC ID:**

**2BDA8-BLB-AA1970B**

**Applicant :**

**BASMANtechnology**

**Brand Name**

-

**Model:**

**BLB-AA1970B**

**Additional Model(s):**

-

**EUT Type:**

**Second Battery**

**Classification:**

**Digital Transmission Systems (DTS)**

**Date of Test:**

-

**Applied Standard:**

**KDB 447498 D01**

The device bearing the brand name and model specified above has been shown to comply with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. The client should not use it to claim product endorsement by TAF or any government agencies. The test results in the report only apply to the tested sample.

I attest to the accuracy of data and all measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.



Tested By : Yonghwan Kim  
Test Engineer

Reviewed By : Hoonpyo Lee  
Technical Manager

**Revision History**

Rev.	Issue Date	Revisions	Revised By
00	November 24, 2023	Initial issue	Yonghwan Kim

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## 1. INTRODUCTION

## **1.1 Location**

Nemko Korea Co.,Ltd  
165-51, Yurim-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, 17042, Republic of Korea.  
Phone : 82-31-330-1700      Fax : 82-31-322-2332

## ***1.2 Accreditation and listing***

Accreditation type	Accreditation number
	CAB Accreditation for DOC Designation No. KR0026

## **2. EUT INFORMATION**

### **2.1 Specifications**

EUT Type	Second Battery
Model Name	BLB-AA1970B
Frequency of Operation	2 402 MHz ~ 2 480 MHz
Output Power (Conducted)	-2.95 dBm
Number of Channels	40 CH
Modulations	GFSK
Antenna Gain (peak)	1.0 dBi
Antenna Setup	1TX / 1RX
EUT Rated Voltage	3.3 Vdc
Remarks	The above RF information of EUT is referred to the RF test report. Report No. 23-068261-01-1a / KTL

### **3. Maximum Permissible Exposure**

#### **RF Exposure Limit**

According to KDB 447498D01 v06:

The 1g and 10g 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
- 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.

Device category	:	Portable device
Transmitting mode	:	Single transmitting
Max. transmitting frequency	:	2 480 MHz
Min. test separation distance	:	5 mm
Max. Antenna Gain	:	1.0 dBi
Max. Average power	:	-2.95 dBm
Max. power with turn-up tolerance	:	-1.00 dBm
		<b>0.79 mW</b>

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For this device:

$0.79 \text{ mW} / 5 \text{ mm} \times \sqrt{2.48 \text{ GHz}} = 0.25$

Note. The calculation result was rounded to one decimal place for comparison.

#### **Test Result :**

This is less than 3.0 for 1-g SAR.

SAR evaluation for general population exposure conditions by measurement or numerical simulation is not required.

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**END REPORT**