

# EMF TEST REPORT

**Test Report No.** : OT-206-RWD-081  
**AGR No.** : A205A-215  
**Applicant** : NUC Electronics Co., Ltd  
**Address** : 280 Nowon-ro, Bukgu, Daegu-City, 41548, Rep. of Korea  
**Manufacturer** : NUC Electronics Co., Ltd  
**Address** : 280 Nowon-ro, Bukgu, Daegu-City, 41548, Rep. of Korea  
**Type of Equipment** : Body Fat Analyzer  
**FCC ID.** : 2AWUK-KBA-200IF  
**Model Name** : KBA-200IF  
**Multiple Model Name** : N/A  
**Serial number** : N/A  
**Total page of Report** : 7 pages (including this page)  
**Date of Incoming** : June 23, 2020  
**Date of issue** : June 30, 2020

## SUMMARY

The equipment complies with the regulation; **FCC PART 15 SUBPART C Section 15.247**

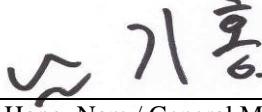
This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.

Reviewed by:

  
Tae-Ho, Kim / Senior Manager  
ONETECH Corp.

Approved by:

  
Ki-Hong, Nam / General Manager  
ONETECH Corp.

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**Revision History**

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-206-RWD-081	June 30, 2020	Initial Release	All

## 1. VERIFICATION OF COMPLIANCE

Applicant : NUC Electronics Co., Ltd  
Address : 280 Nowon-ro, Bukgu, Daegu-City, 41548, Rep. of Korea  
Contact Person : Kwak Wonchang / Manager  
Telephone No. : +82-53-665-5094  
FCC ID : 2AWUK-KBA-200IF  
Model Name : KBA-200IF  
Brand Name : -  
Serial Number : N/A  
Date : June 30, 2020

EQUIPMENT CLASS	DTS – DIGITAL TRANSMISSION SYSTEM
E.U.T. DESCRIPTION	Body Fat Analyzer
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2013
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT	Certification
AUTHORIZATION REQUESTED	
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC PART 15 SUBPART C Section 15.247 KDB 558074 D01 15.247 Meas Guidance v05r02
Modifications on the Equipment to Achieve Compliance	None
Final Test was Conducted On	3 m Semi Anechoic Chamber

- The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

## 2. GENERAL INFORMATION

### 2.1 Product Description

The NUC Electronics Co., Ltd, Model KBA-200IF (referred to as the EUT in this report) is Body Fat Analyzer. Product specification information described herein was obtained from product data sheet or user's manual.

DEVICE TYPE	Body Fat Analyzer
Temperature Range	-10 °C ~ 40 °C
OPERATING FREQUENCY	2 402 MHz ~ 2 480 MHz
NUMBER OF CHANNEL	40 Channel
Modulation Type	GFSK
RF OUTPUT POWER	-4.40 dBm
ANTENNA TYPE	Integral antenna (PCB Pattern type)
ANTENNA GAIN	5.30 dBi
Electrical Rating	DC 3.0 V
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)	32 MHz

### 2.2 Alternative type(s)/model(s); also covered by this test report.

- None

## 3. EUT MODIFICATIONS

- None

## 4. RF Exposure Evaluation

### 4.1 RF EXPOSURE CALCULATION

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.

According to the procedure, KDB 447498 D01, the standalone SAR test exclusion threshold is

$[(\text{Max. Power of channel, including tune-up tolerance, mW}) / (\text{Min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}] < 3$

### 4.2 EUT Description

Kind of EUT	Body Fat Analyzer
Operating Frequency Band	Bluetooth LE: 2 402 MHz ~ 2 480 MHz
MAX. RF OUTPUT POWER	-4.40 dBm
ANTENNA GAIN	5.30 dBi
Exposure	<input type="checkbox"/> MPE
Evaluation Applied	<input type="checkbox"/> SAR <input checked="" type="checkbox"/> SAR Test Exclusion Evaluation



Tested by: Hyung-Kwon, Oh / Manager

#### 4.3 Test Result of SAR Exclusion

According to the procedure, KDB 447498 D01, the standalone SAR test exclusion threshold is

$$[(\text{Max. Power of channel, including tune-up tolerance, mW}) / (\text{Min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}]$$

$$= (0.40/5) \times \sqrt{2.402} = 0.12 < 3$$

Conclusion: The SAR test exclusion threshold is less than 3, so the device meets the RF Exposure Requirement and excluded SAR Test.

Mode	Frequency (MHz)	Target Power W/tolerance (dBm)	Max tune up power (dBm)	Max tune up power (mW)	Separation distance (mm)	RF exposure
Bluetooth LE	2 402	-5.0 ± 1.0	-4.0	0.40	5	0.12



Tested by: Hyung-Kwon, Oh / Manager