

ELECTROMAGNETIC EMISSION COMPLIANCE REPORT FOR LOW-POWER, NON-LICENSED TRANSMITTER

Test Report No. : OT-187-RWD-013

AGR No. : A186A-133

Applicant : Hironic Co., Ltd

Address : 19F, 767, Sinsu-ro, Suji-gu, Yongin-si, Gyeonggi-do, Korea

Manufacturer : Hironic Co., Ltd

Address : 19F, 767, Sinsu-ro, Suji-gu, Yongin-si, Gyeonggi-do, Korea

Type of Equipment : Mid-Frequency Obesity Care device

FCC ID. : 2AQIV-THINBE

Model Name : ThinBe

Multiple Model Name: N/A

Serial number : N/A

Total page of Report: 7 pages (including this page)

Date of Incoming : June 05, 2018

Date of issue : July 05, 2018

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:

Ki-Hong, Nam / Chief Engineer ONETECH Corp. Approved by:

Keun-Young, Choi / Vice President

Report No.: OT-187-RWD-013

ONETECH Corp.





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Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-187-RWD-013	2018.07.05	2018.07.05 Initial Release	

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1. VERIFICATION OF COMPLIANCE

Applicant : Hironic Co., Ltd

Address : 19F, 767, Sinsu-ro, Suji-gu, Yongin-si, Gyeonggi-do, Korea

Contact Person: Jaehan Park / RA Manager

Telephone No. : +82-10-8514-0741 FCC ID : 2AQIV-THINBE

Model Name : ThinBe

Brand Name : Serial Number : N/A

Date : July 05, 2018

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM	
E.U.T. DESCRIPTION	Mid-Frequency Obesity Care device	
THIS REPORT CONCERNS	Original Grant	
MEASUREMENT PROCEDURES	ANSI C63.10: 2013	
TYPE OF EQUIPMENT TESTED	Pre-Production	
KIND OF EQUIPMENT	2	
AUTHORIZATION REQUESTED	Certification	
EQUIPMENT WILL BE OPERATED	ECC DART 15 CURRART C Continu 15 247	
UNDER FCC RULES PART(S)	FCC PART 15 SUBPART C Section 15.247	
Modifications on the Equipment to Achieve	None	
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.

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2. GENERAL INFORMATION

2.1 Product Description

The Hironic Co., Ltd, Model ThinBe (referred to as the EUT in this report) is a Mid-Frequency Obesity Care device. The product specification described herein was obtained from product data sheet or user's manual.

Device Type	Mid-Frequency Obesity Care device	
Temperature Range	10 °C ~ + 40 °C	
Operating Frequency 2 402 MHz ~ 2 480 MHz		
RF Output Power	-12.52 dBm	
Modulation Type	DSSS Modulation(GFSK)	
Antenna Type	Chip Antenna	
Antenna Gain	1.30 dBi	
Electrical Rating	DC 3.70 V	
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)	32.768 kHz, 32 MHz	

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

-. None

3. EUT MODIFICATIONS

-. None



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4. MAXIMUM PERMISSIBLE EXPOSURE

4.1 RF Exposure Limit

According to the FCC rule 1.1310, the limit for General Population/Uncontrolled exposure is 1 mW/cm^2 for the device operating $1.500 \sim 100\,000 \text{ MHz}$.

4.2 EUT Description

4.2 EUT Description			
Kind of EUT	Mid-Frequency Obesity Care device		
	■ Bluetooth LE: 2 402 MHz ~ 2 480 MHz		
	□ Bluetooth: 2 402 MHz ~ 2 480 MHz		
Operating Frequency Band	□ WLAN: 2 412 MHz ~ 2 462 MHz		
	□ WLAN: 2 422 MHz ~ 2 452 MHz		
	■ Portable (< 20 cm separation)		
Device Category	☐ Mobile (> 20 cm separation)		
	□ Others		
RF Output Power	-12.52 dBm		
Antenna Gain	1.30 dBi		
	□ MPE		
Exposure	□ SAR		
Evaluation Applied	■ N/A		





4.3 Test Result Calculated MPE Safe Distance

According to the procedure, KDB 447498 D01, the standalone SAR test exclusion threshold is [(Max. Power of channel, including tune-up tolerance, mW)/(Mim. test separation distance, mm)] X [$\sqrt{f(GHz)}$] < 3 = (0.06/5) X $\sqrt{2.480}$ = 0.02

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

	0.1010000 2.111 1050				
Frequency (MHz)	Target Power W/tolerance	Max tune up	Max tune up	Separation distance	RF exposure
	(dBm)	(dBm)	(mW)	(mm)	-
2 480	-12.5 ± 0.5	-12.00	0.06	5	0.02

Tested by: Hyung-Kwon, Oh / Assistant Manager

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