EMF TEST REPORT

Test Report No. : **OT-24D-RWD-011**

Reception No. : **2410003844**

Applicant : **AIN ELECTRONICS, INC.**

Address : **RM, 1020, Sicox Tower, 484, Dunchon-daero, Jungwon-gu, Seongnam-si, Gyeonggi-do, 13229, South Korea**

Manufacturer : **AIN ELECTRONICS, INC.**

Address : **RM, 1020, Sicox Tower, 484, Dunchon-daero, Jungwon-gu, Seongnam-si, Gyeonggi-do, 13229, South Korea**

Type of Equipment : **TINGBELL**

FCC ID. : **2A6YA-AHP-200**

Model Name : **AHP-200**

Multiple Model Name : **N/A**

Serial number : **N/A**

Total page of Report : **6 pages (including this page)**

Date of Incoming : **November 04, 2024**

Date of issue : **December 04, 2024**

SUMMARY

The equipment complies with the regulation; ***FCC CFR 47 PART 2.1093***

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.

This report is not correlated with the "KS Q ISO/IEC 17025 and KOLAS accreditation" of Korean Laboratory Accreditation Scheme.

Tested by	Reviewed by	Approved by
Yun-Bok, Wi / Engineer	Tae-Ho, Kim / Chief Engineer	Jae-Ho, Lee / Chief Engineer
ONETECH Corp.	ONETECH Corp.	ONETECH Corp.

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

CONTENTS

Page

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-24D-RWD-011	December 04, 2024	Initial Release	All

ONETECH Corp.: 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do, 12735, Korea (TEL: 82-31-799-9500, FAX: 82-31-799-9599)

1. VERIFICATION OF COMPLIANCE

Applicant : AIN ELECTRONICS, INC.

Address : RM, 1020, Sicox Tower, 484, Dunchon-daero, Jungwon-gu, Seongnam-si, Gyeonggi-do, 13229, South Korea

Contact Person : Jae gun, Ma / Team Leader

Telephone No. : +82-31-777-9570

FCC ID : 2A6YA-AHP-200

Model Name : AHP-200

Brand Name : -

Serial Number : N/A

Date : December 04, 2024

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM
E.U.T. DESCRIPTION	TINGBELL
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	KDB 447498 D01 General RF Exposure Guidance v06
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
Modifications on the Equipment to Achieve Compliance	None

-. 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 AIN ELECTRONICS, INC., Model AHP-200 (referred to as the EUT in this report) is a TINGBELL. The product specification described herein was obtained from product data sheet or user's manual.

DEVICE TYPE	TINGBELL
Temperature Range	-20 °C ~ +50 °C
OPERATING FREQUENCY	2 402 MHz ~ 2 480 MHz
MAX. RF OUTPUT POWER	-5.46 dBm
NUMBER OF CHANNEL	40 Channel
MODULATION TYPE	DSSS Modulation(GFSK)
ANTENNA TYPE	Chip Antenna
ANTENNA GAIN	0.34 dBi
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)	32 MHz
Rated Supply Voltage	DC 3.70 V

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

-. None

3. EUT MODIFICATIONS

-. None

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4. RF EXPOSURE EVALUATION

4.1 RF Exposure Calculation

According to the FCC rule §4.3. General SAR test exclusion guidance, the limit for 1-g and 10-g SAR test exclusion thresholds are ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR by the device operating 100 MHz to 6 GHz and test separation distances ≤ 50 mm

4.2 EUT Description

Kind of EUT	TINGBELL
Device Category	■ Portable (< 20 cm separation) ☐ Mobile (> 20 cm separation) ☐ Others
Exposure Evaluation Applied	☐ MPE ☐ SAR ■ SAR Test Exclusion Evaluation

4.3 Calculated MPE Safe Distance

Operating Mode	Frequency (MHz)	Target Power W/tolerance (dBm)	Max tune-up Power (dBm)	Antenna Gain (dBi)	Max tune-up Power (dBm)	Max tune-up Power (mW)	Separation Distance (mm)	RF Exposure (W/kg)
Bluetooth LE	2 402.00	-5.46 ± 1.0	-4.46	0.34	-4.12	0.39	5	0.120

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

[(Max. Power of channel, including tune-up tolerance, mW)/(Min. test separation distance, mm)] X [√ f(GHz)] < 3.0

= [(0.39/5)] X √ 2.402 = 0.120