EMF TEST REPORT

Test Report No.	**: OT-218-RWD-033**
Reception No.	**: 2107003324**
Applicant	**: FCUNWIRED**
Address	**: #1110, 11F, Byucksan Digital Valley 6-cha, 219, Gasan Digital 1-ro, Geumcheon-gu, Seoul, Korea**
Manufacturer	**: FCUNWIRED**
Address	**: #1110, 11F, Byucksan Digital Valley 6-cha, 219, Gasan Digital 1-ro, Geumcheon-gu, Seoul, Korea**
Type of Equipment	**: Fall prevention Receiver**
FCC ID.	**: 2A2N3-GCPG900**
Model Name	**: GCPG900**
Multiple Model Name	**: N/A**
Serial number	**: N/A**
Total page of Report	**: 6 pages (including this page)**
Date of Incoming	**: July 20, 2021**
Date of issue	**: August 12, 2021**

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.

Tested by	Reviewed by	Approved by
/ Sieon Lee / Assistant Manager	/ Ha-Ram Lee / Manager	/Ki-Hong, Nam / General Manager
ONETECH Corp.	ONETECH Corp.	ONETECH Corp.

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

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Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-218-RWD-033	August 12, 2021	Initial Release	All

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1. VERIFICATION OF COMPLIANCE

Applicant : FCUNWIRED

Address : #1110, 11F, Byucksan Digital Valley 6-cha, 219, Gasan Digital 1-ro, Geumcheon-gu, Seoul, Korea

Contact Person : SEONHO NA / Engineering Manager

Telephone No. : 82-70-7825-0088

FCC ID : 2A2N3-GCPG900

Model Name : GCPG900

Brand Name : -

Serial Number : N/A

Date : August 12, 2021

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM
E.U.T. DESCRIPTION	Fall prevention Receiver
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2020
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC PART 15 SUBPART C Section 15.247 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.

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2. GENERAL INFORMATION

2.1 Product Description

The FCUNWIRED, Model GCPG900 (referred to as the EUT in this report) is an Fall prevention Receiver, Product specification information described herein was obtained from product data sheet or user's manual.

DEVICE TYPE	Fall prevention Receiver
Rated Supply Voltage	DC 3.7 V
OPERATING FREQUENCY	920.5 MHz ~ 923.5 MHz
MODULATION TYPE	CSS
RF OUTPUT POWER	10.96 dBm
NUMBER OF CHANNEL	3 Channel
ANTENNA TYPE	PCB Antenna
ANTENNA GAIN	-0.62 dBi
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)	4 MHz, 16 MHz, 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 Calculation

According to the FCC rule 1.1310 table 1B, the limit for the maximum permissible RF exposure for an uncontrolled environment are f/1500 mW/cm² for the frequency range between 300 MHz and 1 500 MHz and 1.0 mW/cm² for the frequency range between 1 500 MHz and 100 000 MHz.

The electric field generated for a 1 mW/cm² exposure is calculated as follows:

$E = \sqrt{(30 * P * G)} / d$, and $S = E^2 / Z = E^2 / 377$, because 1 mW/cm² = 10 W/m²

Where

S = Power density in mW/cm², Z = Impedance of free space, 377 Ω

E = Electric filed strength in V/m, G = Numeric antenna gain, and d = distance in meter

Combing equations and rearranging the terms to express the distance as a function of the remaining variable

$d = \sqrt{(30 * P * G) / (377 * 10 S)}$

Changing to units of mW and cm, using P (mW) = P (W) / 1 000, d (cm) = 0.01 * d (m)

$d = 0.282 * \sqrt{(P * G) / S}$

Where

d = distance in cm, P = Power in mW, G = Numeric antenna gain, and S = Power density in mW/cm²

Kind of EUT	Fall prevention Receiver
Device Category	■ Portable (< 20 cm separation) ☐ Mobile (> 20 cm separation) ☐ Others
Exposure Evaluation Applied	☐ MPE ☐ SAR ■ N/A

4.2 Test Result for 900 MHz

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 [√ f(GHz)] < 3

= (14.00/5) X √ 0.9205 = 2.69

Mode	Frequency (MHz)	Target Power W/tolerance (dBm)	Max tune up power (dBm)	Max tune up power (mW)	Separation distance (mm)	RF exposure
900 MHz	920.50	10.96 ± 0.5	11.46	14.00	5	2.69

Conclusion:

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

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