



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

Test Report No. : W172R-D037

AGR No. : A171A-129R

Applicant : MYUNGSUNG Automaiton & Technology Co., Ltd.

Address : 26, Jangdae-gil, Ochang-eup, Cheongwon-gu, Cheongju-si, Chungcheongbuk-do, Korea

Manufacturer : MYUNGSUNG Automaiton & Technology Co., Ltd.

Address : 26, Jangdae-gil, Ochang-eup, Cheongwon-gu, Cheongju-si, Chungcheongbuk-do, Korea

Type of Equipment : So Gnee Smart Scale

FCC ID. : 2ALBTSOGNEESCALE-1

Model Name : SoGneeScale-1

Serial number : N/A

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

Date of Incoming : February 13, 2017

Date of issue : February 27, 2017

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 / Asst, Chief Engineer ONETECH Corp.

Approved by:

Keun-Young, Choi / Vice President ONETECH Corp.

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REVISION HISTORY

| Issued Report No. | Issued Date | Revisions | Effect Section |
|-------------------|-------------------|---------------|----------------|
| W172R-D037 | February 27, 2017 | Initial Issue | All |

DOCUMENT HISTORY

| Revision No. | Issued Date | Revisions | Effect Section |
|------------------------|-------------------|------------------------------------|-----------------|
| Original | February 27, 2017 | Initial Issue | - |
| Revision 1 | March 6, 2017 | Modification the Type of Equipment | Page 1, 4, 5, 6 |
| Revision 2 March 7, 20 | M 1.7.2017 | Modification the Type of Equipment | Page 1, 4, 5, 6 |
| | March 7, 2017 | Test Results updated | Page 6 |



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1. VERIFICATION OF COMPLIANCE

Applicant : MYUNGSUNG Automaiton & Technology Co., Ltd.

Address : 26, Jangdae-gil, Ochang-eup, Cheongwon-gu, Cheongju-si, Chungcheongbuk-do, Korea

Contact Person: Jongbok, Choi / Chief R&D Center Manager

Telephone No. : +82-43-715-9580

FCC ID : 2ALBTSOGNEESCALE-1

Model Name : SoGneeScale-1

Brand Name : So!Gnee Smart Scale

Serial Number : N/A

Date : February 27, 2017

| EQUIPMENT CLASS | DTS – DIGITAL TRNSMISSION SYSTEM | |
|---|--------------------------------------|--|
| E.U.T. DESCRIPTION | So Gnee Smart Scale | |
| THIS REPORT CONCERNS | Original Grant | |
| MEASUREMENT PROCEDURES | ANSI C63.10: 2013 | |
| TYPE OF EQUIPMENT TESTED | Pre-Production | |
| KIND OF EQUIPMENT | | |
| AUTHORIZATION REQUESTED | Certification | |
| EQUIPMENT WILL BE OPERATED | FOG DART 15 SURDART OF CALL 15 247 | |
| UNDER FCC RULES PART(S) | FCC PART 15 SUBPART C Section 15.247 | |
| Modifications on the Equipment to Achieve | Name - | |
| 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 MYUNGSUNG Automaiton & Technology Co., Ltd., Model SoGneeScale-1 (referred to as the EUT in this report) is a So Gnee Smart Scale. The product specification described herein was obtained from product data sheet or user's manual.

| Device Type | So Gnee Smart Scale | |
|---|---|--|
| Temperature Range | -10 °C to 50 °C | |
| Operating Frequency | 2 402 MHz ~ 2 480 MHz | |
| RF Output Power | 0.37 dBm | |
| Number of Channel | 40 Channel | |
| Modulation Type | GFSK | |
| Antenna Type | CHIP Antenna | |
| USED RF CHIP | Marker: TEXAS INSTRUMENTS Model Name: CC2540 | |
| Antenna Gain | 1.9 dBi | |
| List of each Osc. or crystal Freq.(Freq. >= 1 MHz) | 32 MHz, 32.768 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, the limit for General Population/Uncontrolled exposure is 1 mW/cm² for the device operating 1 500 ~ 100 000 MHz.

4.2 EUT Description

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| Kind of EUT | So Gnee Smart Scale | | | |
|-----------------------------|--|--|--|--|
| Operating Frequency Band | □ Wireless Microphone: 494.000 MHz ~ 501.000 MHz and 498.200 MHz ~ 505.200 MHz □ WLAN: 2 412 MHz ~ 2 462 MHz □ WLAN: 5 180 MHz ~ 5 240 MHz □ WLAN: 5 745 MHz ~ 5 825 MHz | | | |
| MAY DE QUITDUT DOWED | ☐ Bluetooth: 2 402 MHz ~ 2 480 MHz ■ Bluetooth BLE: 2 402 MHz ~ 2 480 MHz 0.37 dBm | | | |
| | | | | |
| Antenna Gain | 1.9 dBi | | | |
| Exposure Evaluation Applied | □ MPE □ SAR ■ N/A | | | |

4.3 Test Result

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)] $X [\sqrt{f(GHz)}] < 3$ $= (1.12/5) \text{ X} \sqrt{2.480} = 0.3528$

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

| | Frequency (MHz) | Target Power W/tolerance | Max tune up | Max tune up power | Separation distance | RF exposure |
|---------------|-----------------|--------------------------|--------------|-------------------|------------------------|-------------|
| BLE (GFSK) | 2 480 | (dBm) 0.0 ± 0.5 | (dBm) 0.5 | (mW) 1.12 | (mm) 5 | 0.3528 |

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