

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

Test Report No. : W17NR-D073
AGR No. : A17NA-073
Applicant : Guru
Address : NO.301, Ilsanplaza, 22, Gobong-ro 278beon-gil, Ilsandong-gu, Goyang-si, Gyeonggi-do, 10338, South Korea
Manufacturer : Guru
Address : NO.301, Ilsanplaza, 22, Gobong-ro 278beon-gil, Ilsandong-gu, Goyang-si, Gyeonggi-do, 10338, South Korea
Type of Equipment : Household robots
FCC ID. : 2AOFHGURU-PEDDY-VER
Model Name : PEDDY
Multiple Model Name : N/A
Serial number : N/A
Total page of Report : 6 pages (including this page)
Date of Incoming : November 17, 2017
Date of issue : November 23, 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:



Jae-Ho Lee / 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 |
|-------------------|-------------------|---------------|----------------|
| W17NR-D073 | November 23, 2017 | Initial Issue | All |
| | | | |
| | | | |

1. VERIFICATION OF COMPLIANCE

Applicant : Guru

Address : NO.301, Ilsanplaza, 22, Gobong-ro 278beon-gil, Ilsandong-gu, Goyang-si, Gyeonggi-do, 10338, South Korea

Contact Person : Sung su yeo / Team manager

Telephone No. : +82-70-8288-8311

FCC ID : 2AOFHGURU-PEDDY-VER

Model Name : PEDDY

Brand Name : -

Serial Number : N/A

Date : November 23, 2017

| | |
|---|--------------------------------------|
| EQUIPMENT CLASS | DTS – DIGITAL TRNSMISSION SYSTEM |
| E.U.T. DESCRIPTION | Household robots |
| KIND OD EQUIPMENT | Modular Transmitter |
| 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 UNDER FCC RULES PART(S) | FCC PART 15 SUBPART C Section 15.247 |
| 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 Guru, Model PEDDY (referred to as the EUT in this report) is a Household robots. The product specification described herein was obtained from product data sheet or user's manual.

| | |
|---|-----------------------|
| Device Type | Household robots |
| Operating Frequency | 2 402 MHz ~ 2 480 MHz |
| RF Output Power | -1.72 dBm |
| Number of Channel | 40 Channel |
| Modulation Type | GFSK |
| Antenna Type | PCB Antenna |
| Antenna Gain | 3.789 dBi |
| List of each Osc. or crystal Freq.(Freq. \geq 1 MHz) | 8 MHz |
| Rated Supply Voltage | DC 5.0 V |

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

- . None

3. EUT MODIFICATIONS

- . None

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

| | |
|--------------------------------|---|
| Kind of EUT | Household robots |
| Operating Frequency Band | <input type="checkbox"/> Wireless Microphone: 494.000 MHz ~ 501.000 MHz and 498.200 MHz ~ 505.200 MHz <input type="checkbox"/> WLAN: 2 412 MHz ~ 2 462 MHz <input type="checkbox"/> WLAN: 5 180 MHz ~ 5 240 MHz <input type="checkbox"/> WLAN: 5 745 MHz ~ 5 825 MHz <input type="checkbox"/> Bluetooth: 2 402 MHz ~ 2 480 MHz <input checked="" type="checkbox"/> Bluetooth BLE: 2 402 MHz ~ 2 480 MHz |
| MAX. RF OUTPUT POWER | -1.72 dBm |
| Antenna Gain | 3.789 dBi |
| Exposure Evaluation Applied | <input type="checkbox"/> MPE <input type="checkbox"/> SAR <input checked="" type="checkbox"/> N/A |

4.3 Test Result

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

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

$$= (0.67/5) \times \sqrt{2.402} = 0.21$$

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 (dBm) | Max tune up power (dBm) | Max tune up power (mW) | Separation distance (mm) | RF exposure |
|---------------|--------------------|--------------------------------------|-------------------------------|------------------------------|--------------------------------|-------------|
| BLE (GFSK) | 2 402 | -2.22 ± 0.5 | -1.72 | 0.67 | 5 | 0.21 |