

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.

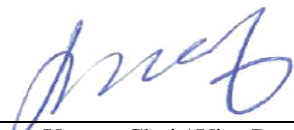
It is not a generally valid assessment of the features of the respective products of the mass-production.

Reviewed by: _____



Jae-Ho Lee / Chief Engineer
ONETECH Corp.

Approved by: _____



Keun-Young, Choi / Vice President
ONETECH Corp.

CONTENTS

	PAGE
1. VERIFICATION OF COMPLIANCE	4
2. GENERAL INFORMATION	5
2.1 PRODUCT DESCRIPTION.....	5
2.2 ALTERNATIVE TYPE(S)/MODEL(S); ALSO COVERED BY THIS TEST REPORT.....	5
3. EUT MODIFICATIONS.....	5
4. MAXIMUM PERMISSIBLE EXPOSURE	6
4.1 RF EXPOSURE CALCULATION	6
4.2 EUT DESCRIPTION.....	6
4.3 TEST RESULT	6

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. >= 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