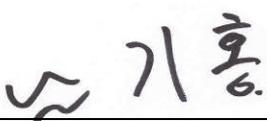


ELECTROMAGNETIC EMISSION COMPLIANCE REPORT FOR LOW-POWER, NON-LICENSED TRANSMITTER

Test Report No. : W17DR-D048
AGR No. : A17DA-100
Applicant : AIRSOUND INC.
Address : 208, 75, Techno 1-ro, Yuseong-gu, Daejeon, 34014, Korea
Manufacturer : AIRSOUND INC.
Address : 208, 75, Techno 1-ro, Yuseong-gu, Daejeon, 34014, Korea
Type of Equipment : MYPIN+
FCC ID. : 2AOL5-APR-K170
Model Name : APR-K170
Serial number : N/A
Total page of Report : 6 pages (including this page)
Date of Incoming : December 11, 2017
Date of issue : December 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
W17DR-D048	December 27, 2017	Initial Issue	All

1. VERIFICATION OF COMPLIANCE

Applicant : AIRSOUND INC.
 Address : 208, 75, Techno 1-ro, Yuseong-gu, Daejeon, 34014, Korea
 Contact Person : Yu Kyeom, Kim / Principal Research Engineer
 Telephone No. : +82-42-826-8400
 FCC ID : 2AOL5-APR-K170
 Model Name : APR-K170
 Serial Number : N/A
 Date : December 27, 2017

EQUIPMENT CLASS	DSS – PART 15 SPREAD SPECTRUM TRANSMITTER
E.U.T. DESCRIPTION	MYPIN+
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 AIRSOUND INC., Model APR-K170 (referred to as the EUT in this report) is a MYPIN+. Product specification information described herein was obtained from product data sheet or user's manual.

Device Type	MYPIN+	
Operating Frequency	2 402 MHz ~ 2 480 MHz	
RF Output Power	1 Mbps	-1.17 dBm
	2 Mbps	-1.66 dBm
	3 Mbps	-1.56 dBm
Number of Channel	79 Channel	
Modulation Type	GFSK for 1 Mbps, $\pi/4$ -DQPSK for 2 Mbps, 8-DPSK for 3 Mbps	
Antenna Type	Chip Antenna	
Antenna Gain	0.5 dBi	
List of each Osc. or crystal Freq.(Freq. \geq 1 MHz)	26 MHz	

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 Limit

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	MYPIN+
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 ~ 5 320 MHz / 5 500 MHz ~ 5 700 MHz <input type="checkbox"/> WLAN: 5 745 MHz ~ 5 825 MHz <input checked="" type="checkbox"/> Bluetooth: 2 402 MHz ~ 2 480 MHz <input type="checkbox"/> Zigbee: 2 405 MHz ~ 2 480 MHz
Device Category	<input checked="" type="checkbox"/> Portable (< 20 cm separation) <input type="checkbox"/> Mobile (> 20 cm separation) <input type="checkbox"/> Others
Max. Output Power	1 Mbps: -1.17 dBm 2 Mbps: -1.66 dBm 3 Mbps: -1.56 dBm
Used Antenna	Chip Antenna
Used Antenna Gain	0.5 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

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

$$= [1.31/5] \times \sqrt{2.480} = 0.413$$

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



Tested by: Tae-Ho, Kim / Manager