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

Test Report No.	**: OT-203-RWD-032**
AGR No.	**: A201A-176**
Applicant	**: Canon Electronic Business Machines (H.K.) Co., Ltd.**
Address	**: 17/F., Tower One, Ever Gain Plaza, 82-100 Container Port Road, Kwai Chung, New Territories, Hong Kong**
Manufacturer	**: Canon Electronic Business Machines (H.K.) Co., Ltd.**
Address	**: 17/F., Tower One, Ever Gain Plaza, 82-100 Container Port Road, Kwai Chung, New Territories, Hong Kong**
Type of Equipment	**: Instant Camera Printer**
FCC ID.	**: Y7J-PP2002**
Model Name	**: PP2002**
Serial number	**: N/A**
Total page of Report	**: 7 pages (including this page)**
Date of Incoming	**: January 09, 2020**
Date of issue	**: March 11, 2020**

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: Tae-Ho, Kim / Senior Manager, ONETECH Corp.

Approved by: Ki-Hong, Nam / General Manager, ONETECH Corp.

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-203-RWD-032	March 11, 2020	Initial Release	All

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1. VERIFICATION OF COMPLIANCE

Applicant : Canon Electronic Business Machines (H.K.) Co., Ltd.

Address : 17/F., Tower One, Ever Gain Plaza, 82-100 Container Port Road, Kwai Chung, New Territories, Hong Kong

Contact Person : Chi Tat, Leung / R&D Director

Telephone No. : 852-2305-8400

FCC ID : Y7J-PP2002

Model Name : PP2002

Brand Name : Canon

Serial Number : N/A

Date : March 11, 2020

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM
E.U.T. DESCRIPTION	Instant Camera Printer
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 KDB 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 Canon Electronic Business Machines (H.K.) Co., Ltd., Model PP2002 (referred to as the EUT in this report) is a Instant Camera Printer. The product specification described herein was obtained from product data sheet or user's manual.

DEVICE TYPE	Instant Camera Printer		
Temperature Range	5 °C ~ 40 °C		
OPERATING FREQUENCY	Bluetooth LE	2 402 MHz ~ 2 480 MHz	
	Bluetooth	2 402 MHz ~ 2 480 MHz	
MODULATION TYPE	Bluetooth LE	GFSK	
	Bluetooth	GFSK for 1Mbps, π/4-DQPSK for 2Mbps, 8-DPSK for 3Mbps	
RF OUTPUT POWER	Bluetooth LE	1.55 dBm	
	Bluetooth	1 Mbps	3.02 dBm
		2 Mbps	1.76 dBm
		3 Mbps	2.32 dBm
ANTENNA TYPE	Chip Antenna		
ANTENNA GAIN	1.80 dBi		
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)	32.768 kHz , 24 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 Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Portable device with its physical nature to be used nearby, the distance between radiating structure and human is less than 20 cm.

As per KDB 447498 D01, The 1-g and 10-g SAR test exclusion thesholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are detrmined by:

[(Max. Power of channel, including tune-up tolerance, mW)/(Mim. test separation distance, mm)] X [√ f(GHz)]
< 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

F(GHz) is the RF channel transmit frequency in GHz
Power and distance are rounded to the nearest mW and mm before calculation
The result is rounded to one decimal place for comparison.

4.2 EUT Description

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

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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 [√ f(GHz)] < 3

= (2.24/5) X √ 2.441 = 0.70

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

Operating Mode	Frequency (MHz)	Target Power W/tolerance (dBm)	Max tune up power (dBm)	Max tune up power (mW)	Separation distance (mm)	RF exposure
Bluetooth LE	2 480.00	1.0 ± 1.0	2.00	1.58	5.00	0.50
Bluetooth_ 1 Mbps	2 441.00	2.5 ± 1.0	3.50	2.24	5.00	0.70
Bluetooth_ 2 Mbps	2 441.00	1.5 ± 1.0	2.50	1.78	5.00	0.56
Bluetooth_ 3 Mbps	2 441.00	1.5 ± 1.0	2.50	1.78	5.00	0.56

Tested by: Hyung-Kwon, Oh / Manager

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