RF EXPOSURE REPORT

Applicant	•••	Hannto Technology Co., Ltd.		
Address	:	Room 704, Building 1, No.88, Shengrong Road, Pudong, Shanghai, China.		
Equipment under Test	•••	Photo Printer		
Model No.		DHP515, DHP514		
Trade Mark		Liene"/ Liene / Optional		
FCC ID		2AZHDDHP515		
Manufacturer	:	Hannto Technology Co., Ltd.		
Address	:	Room 704, Building 1, No.88, Shengrong Road, Pudong, Shanghai, China.		
Report No.		DDT-B24120205-3E02		
Issue Date	••	Dec. 30, 2024		
Issued By	• •	Suzhou Dongdian Testing Service Co., Ltd.		
Address		Phase II, No.16 Runsheng Road, Suzhoa Industrial Park, Suzhou, People's Republic of China Tel: +86-0512-62531270, E-mail: duto dgddt.com, http://www.ddttest.com		

REPORT

检验检测专用章

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TEST REPORT DECLARE

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Standard Used: KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is assessed by Suzhou Dongdian Testing Service Co., Ltd. and in the configuration assessed the equipment complied with the standards specified above. The assessed results are contained in this report and Suzhou Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these assess.

After evaluation, our opinion is that the equipment In Accordance with above standard.

Report No:	DDT-B24111211-2E05		× 1
Date of Receipt:	Dec. 06, 2024	Date of Test:	Dec. 06, 2024~ Dec. 18, 2024

Prepared By: Bacon Vono

Reviewed By:

Authorized By:

Bacon Dong/Engineer

Leon Wu/Director

Chris Zhong/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Suzhou Dongdian Testing Service Co., Ltd..

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

Revision History

Rev.	Revisions		Issue Date	Revised By
	Initial issue		Dec. 30, 2024	8
		- not		



1. General information

1.1. Description of Equipment

EUT* Name 📃 🚿	:	Photo Printer	(8)
Model Number	:	DHP515, DHP514	× Jr
Test Model		DHP514	
EUT function description	•••	Please reference user manual of this device	
Power supply	:	Input:100-240V~ 50/60Hz 1.0A	
Radio Technology	:	BT, BLE	
Operation frequency		2402MHz-2480MHz	
Modulation	2	GFSK, Pi/4 DQPSK, 8DPSK	
Transmitter rate	:	1 Mbps, 2 Mbps, 3 Mbps	01
Antenna Type	į.	PCB antenna, maximum PK gain: -2.55dBi	
Exposure category	:	General population/uncontrolled environment	
Device Type	:	Mobile Device	
Target power and tolerance	:	BLE: 1±1.5dBm, EDR: 1±1.5dBm	5

1.2. Assess laboratory

Lab Information	Company Name: Suzhou Dongdian Testing Service Co., Ltd.			
	Address: Phase II, No.16 Runsheng Road, Suzhou Industrial Park,			
	Suzhou, People's Republic of China			
	Tel: +86-0512-62531270, E-mail: ddt@dgddt.com,			
	http://www.ddttest.com			
Accreditation Certificate	A2LA (Certificate No.: 7346.01)			
	Suzhou Dongdian Testing Service Co., Ltd. has been assessed and			
®	proved to be in compliance with A2LA.			
-	FCC (FCC Designation No.: CN1397)			
	Suzhou Dongdian Testing Service Co., Ltd. has been recognized to			
	perform compliance testing on equipment subject to the			
	Commission's Declaration of Conformity (DoC) and Certification			
	IC (IC Designation No : 32052: CAB No :CN0182)			
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	Suznou Dongdian Testing Service Co., Ltd. has been recognized to			
×	perform compliance testing on equipment subject to the			
	Commission's Declaration of Conformity (DoC) and Certification			
	rules.			
Note 1: All tests measurement facilities use to collect the measurement data are located at				
Phase II, No.16 Runsheng Road, Suzhou Industrial Park, Suzhou, People's Republic of China				

Note 2: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. These measurements below 30MHz had been correlated to measurements performed on an OFS.

Note 3: The test anechoic chamber in Suzhou Dongdian Testing Service Co., Ltd had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

2. RF Exposure Evaluation

2.1. Requirement

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with. L

imits for General Population/Uncontrolled Exposure
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(B) Limits for General Population / Uncontrolled Exposure							
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)			
0.3-1.34	614	1.63	(100)*	30			
1.34-30	824/f	2.19/f	(180/f)*	30			
30-300	27.5	0.073	0.2	30			
300-1500			F/1500	30			
1500-100,000			1.0	30			

Note: f = frequency in MHz; *Plane-wave equivalent power density

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d} \qquad Pow$$

Power Density:
$$S(mW/cm^2) = \frac{E^2}{377}$$

- E = Electric field (V/m)
- P = Peak RF output power (mW)
- G = EUT Antenna numeric gain (numeric)=
- d = Separation distance between radiator and human body (m)
- The formula can be changed to

We can change the formula to:

$$S = \frac{30 \times P \times G}{377 \times d^2} \text{ or, } d = \sqrt{\frac{30 \times P \times G}{377 \times S}}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2 m, as well as the gain of the used antenna, the RF power density can be obtained.

2.3. Estimation result

	Max. Tune Up	Output	Antenna	Antenna	MPE	MPE
Worst Mode	power	power	Gain	Gain	Values	Limit
	(dBm)	(mW)	(dBi)	(linear)	(mW/cm ²)	(mW/cm ²)
BT	2.5	1.778	-2.55	0.556	0.0001967	® 1
BLE	2.5	1.778	-2.55	0.556	0.0001967	1

Result: Pass

Note: The estimation distance is 20 cm

Conclusion: The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

END OF REPORT