

TEST REPORT		
Report Number. :	EP2607017F03	
Date of receipt of test item .. :	2026-09-03	
Date (s) of performance of test..... :	2026-09-04 to 2026-10-09	
Date of issue..... :	2026-10-10	
Testing Laboratory name..... :	Dongguan Pubiao Testing Technology Co., Ltd.	
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Applicant's name..... :	Zhuhai Xprinter Electronics Technology Co., Ltd.	
Address..... :	5/F, 1st Workshop, No.613 Huawei Road, Qianshan Industrial Zone, Xiangzhou District, Zhuhai City, Guangdong Province, P.R.China	
Manufacturer's name	Zhuhai Xprinter Electronics Technology Co., Ltd.	
Address..... :	5/F, 1st Workshop, No.613 Huawei Road, Qianshan Industrial Zone, Xiangzhou District, Zhuhai City, Guangdong Province, P.R.China	
Factory's name	Zhuhai Xprinter Electronics Technology Co., Ltd.	
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Standard(s)	§1.1310, §2.1093	
Test item description..... :	Portable Thermal Printer, Tattoo Stencil Printer	
Trade Mark	N/A	
Model/Type reference..... :	A300, A300W, A300 Pro, A3, F550, FM100, FM200, FM300, GT100, GT150	
FCC ID	2AWYK-A300	
Summary of Test Results..... :	Pass	
Test Report Form No. :	§1.1310, §2.1093	
Master TRF	Dated 2025-11	
Prepared by (+signature)	Rose Zou	
Approved by (+signature).... :	Eric Liu	
The Summary of Test Results based on a technical opinion belongs to the standard(s):		
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Modified History

Report No.	Revision Data	Summary
EP2607017F03	2026-10-10	Original Version

1. EUT SPECIFICATION

Characteristics	Description
Product:	Portable Thermal Printer, Tattoo Stencil Printer
Model Number:	A300, A300W, A300 Pro, A3, F550, FM100, FM200, FM300, GT100, GT150
Difference:	All models are the same except for the product model and color. Here we choose A300 as the test EUT.
Device Type:	Bluetooth V5.2 BT, BLE
Data Rate:	1Mbps for BT V5.2 GFSK modulation 2Mbps for BT V5.2 pi/4-DQPSK modulation 1Mbps for BLE V5.2 GFSK modulation
Modulation:	BT: GFSK, pi/4-DQPSK BLE: GFSK (1M)
Operating Frequency Range(s) :	2402-2480MHz
Number of Channels:	BT: 79 channels BLE: 40 channels
Transmit Power Max:	BT: 1.59 dBm BLE: 0.48 dBm
Antenna Gain:	2.46 dBi
Power supply:	DC 22.2V from Battery (Battery Capacity: 3000mAh) 5V DC 2A from USB
Evaluation applied:	☐ MPE Evaluation ☒ SAR Evaluation

2. TEST REQUIREMENT

RF EXPOSURE EVALUATION

According to §15.247(i) and §1.1307(b)(1), systems operating under the provisions of this 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.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [f_{(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,²⁴ where

- $f_{(\text{GHz})}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁵
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum *test separation distance* is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum *test separation distance* is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by §2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

One antenna is available for the EUT. The minimum separation distance is 5mm.

3. MEASUREMENT RESULT

modulation	Transmit Frequency (MHz)	Measured Power (dBm)	Tune up Power (dBm)	Max tune up power(dBm)	Calculation Result	1-g SAR
BT: GFSK	2402	0.51	±1	1.51	0.438850	3
	2441	0.64	±1	1.64	0.455842	3
	2480	0.23	±1	1.23	0.418077	3
BT: pi/4-DQPSK	2402	1.43	±1	2.43	0.542396	3
	2441	1.59	±1	2.59	0.567301	3
	2480	1.17	±1	2.17	0.519106	3
BLE: GFSK(1M)	2402	0.30	±1	1.30	0.418135	3
	2440	0.48	±1	1.48	0.439263	3
	2480	-0.12	±1	0.88	0.385706	3

According to KDB 447498 D01 General RF Exposure Guidance v06, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.

*** End of Report **

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