



经续检验

SLG-CPC Testlaboratory

TEST REPORT

Report Number. :	90717-25-72-25-PP003	
Date of issue..... :	2025-07-30	
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Applicant's name :	Zhuhai Xprinter Electronics Technology Co., Ltd.	
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Manufacturer's name :	Zhuhai Xprinter Electronics Technology Co., Ltd.	
Address..... :	5F,1st Building,613 Huawei Road,Qianshan Industrial Park,Xiangzhou District,Zhuhai City,Guangdong Province,China	
Factory's name :	Zhuhai Xprinter Electronics Technology Co., Ltd.	
Address..... :	5F,1st Building,613 Huawei Road,Qianshan Industrial Park,Xiangzhou District,Zhuhai City,Guangdong Province,China	
Standard(s) :	FCC 47 CFR Part 15, Subpart C	
Test item description :	THERMAL RECEIPT PRINTER, THERMAL BARCODE PRINTER, BLUETOOTH THERMAL RECEIPT PRINTER, BLUETOOTH THERMAL BARCODE PRINTER, WIRELESS THERMAL RECEIPT PRINTER, THERMAL LABEL PRINTER, CLOUD THERMAL RECEIPT PRINTER, CLOUD THERMAL BARCODE PRINTER	
Trade Mark :	Xprinter® 芯烨	
Model/Type reference :	XP-58TS (See Page 4 for series model)	
FCC ID :	2AWYKXP-58TS	
Date of receipt of test item..... :	2025-07-16	
Date (s) of performance of test:	2025-07-17 to 2025-07-25	
Summary of Test Results :	Pass	
The Summary of Test Results based on a technical opinion belongs to the standard(s).		
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Modified History

Report No.	Revision Date	Summary
90717-25-72-25-PP003	2025-07-30	Original Report

1. EUT Specification

Characteristics	Description
Product:	THERMAL RECEIPT PRINTER, THERMAL BARCODE PRINTER, BLUETOOTH THERMAL RECEIPT PRINTER, BLUETOOTH THERMAL BARCODE PRINTER, WIRELESS THERMAL RECEIPT PRINTER, THERMAL LABEL PRINTER, CLOUD THERMAL RECEIPT PRINTER, CLOUD THERMAL BARCODE PRINTER
Model Number:	XP-T58AS, XP-T58BS, XP-T58CS, XP-T58DS, XP-T58ES, XP-T58FS, XP-T58GS, XP-T58HS, XP-T58KS, XP-T58LS, XP-T58MS, XP-T58NS, XP-T58SS, XP-T58XS, XP-T58US, XP-Q58AS, XP-Q58BS, XP-Q58CS, XP-Q58DS, XP-Q58ES, XP-Q58FS, XP-Q58GS, XP-Q58HS, XP-Q58S, XP-Q58KS, XP-Q58LS, XP-Q58MS, XP-Q58NS, XP-Q58SS, XP-Q58XS, XP-Q58US, XP-58AS, XP-58BS, XP-58CS, XP-58DS, XP-58ES, XP-58FS, XP-58GS, XP-58HS, XP-58KS, XP-58LS, XP-58MS, XP-58NS, XP-58SS, XP-58XS, XP-58US, XP-58TS (All models are identical to each other except for product name and model name. All tests are performed on model XP-58TS.)
Device Type:	DSS: Bluetooth V3.0 DTS: Bluetooth V5.4
Data Rate:	DSS: 1Mbps for GFSK modulation 2Mbps for pi/4-DQPSK modulation DTS: 1Mbps for GFSK modulation
Modulation:	DSS: GFSK, pi/4-DQPSK DTS: GFSK(1M)
Operating Frequency Range(s) :	2402-2480MHz
Number of Channels:	DSS: 79 channels DTS: 40 channels
Transmit Power Max:	DSS: -4.54 dBm DTS: -3.93 dBm
Antenna Gain:	2.58 dBi
Power supply:	Power Input: 9V $\overline{\text{---}}$ 2A
AC/DC ADAPTER Information	MODEL: YC18-09020001 INPUT: 100-240V~ 50/60Hz 1.0A OUTPUT: 9V $\overline{\text{---}}$ 2A Manufacturer: Zhongshan City Youchuang Electronics Technology Co.,Ltd
Evaluation applied:	☒ MPE Evaluation ☐ SAR Evaluation

2. Test Requirement:

RF EXPOSURE EVALUATION

According to 447498 D01 V06: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b)

Limits for Maximum Permissible Exposure (MPE)

Frequency Range(MHz)	Electric Field Strength(V/m)	Magnetic Field Strength(A/m)	Power Density(mW/cm ²)	Average Time
(A) Limits for Occupational/Control Exposures				
300-1500	--	--	F/300	6
1500-100000	--	--	5	6
(B) Limits for General Population/Uncontrol Exposures				
300-1500	--	--	F/1500	6
1500-100000	--	--	1	30

Friis transmission formula: $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2)$

Where

P_d = Power density in mW/cm²

P_{out} = output power to antenna in mW

G = Numeric gain of the antenna relative to isotropic antenna

π = 3.1416

R = distance between observation point and center of the radiator in cm

P_d the limit of MPE, 1mW/cm². If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

3. Measurement Result

Bluetooth

Antenna gain: 2.58 dBi

modulation	Channel Freq. (MHz)	Measured power (dBm)	Tune-up power (dBm)	Max tune-up power (dBm)	Antenna Gain Numeric	Evaluation result (mW/cm ²)	Power density Limits (mW/cm ²)
BR: GFSK	2402	-4.54	±1	-3.54	1.81	0.000159	1
	2441	-4.87	±1	-3.87	1.81	0.000148	1
	2480	-4.75	±1	-3.75	1.81	0.000152	1
EDR: pi/4-DQPSK	2402	-4.58	±1	-3.58	1.81	0.000158	1
	2441	-5	±1	-4.00	1.81	0.000143	1
	2480	-4.73	±1	-3.73	1.81	0.000153	1
BLE: GFSK(1M)	2402	-3.93	±1	-5.86	1.81	0.000093	1
	2441	-4.54	±1	-5.70	1.81	0.000097	1
	2480	-4.34	±1	-5.42	1.81	0.000103	1

the worst-case situation is 0.000159, which is less than “1”,
 This confirmed that the device comply with FCC 1.1310 MPE limit.

*** End of Report ***

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