

RF Exposure Evaluation Report

Product : Thermal Printer
Trade mark : N/A
Model/Type reference : ST83, T11, T22, T18, T810, T88, T99, T818, S18, S11,
T8810, W11, W16, W18, V83, VT83, ST83A, ST83B,
ST83C, ST83D, ST83E, ST83F, ST83G, ST83H, ST83I,
ST83J, ST83K, ST83L, ST83M, ST83N, ST83O,
ST83P, ST83Q, ST83R, ST83S, ST83T, ST83U,
ST83V, ST83W, ST83X, ST83Y, ST83Z
Serial Number : N/A
Report Number : EED32S80827003
FCC ID : 2A6FW-ST83
Date of Issue : Jun. 02, 2026
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1093
KDB 447498 D04 Interim General RF Exposure
Guidance v01
Test result : PASS

Prepared for:

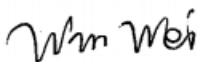
Xiamen Print Future Technology Co.,Ltd.
Room 701, No.55 Dongling Road, Houxi Town, Jimei District, Xiamen
City, Fujian Province, China

Prepared by:

Centre Testing International Group Co., Ltd.
Building C, Hongwei Industrial Park Block 70,
Bao'an District, Shenzhen, China
TEL: +86-755-3368 3668
FAX: +86-755-3368 3385

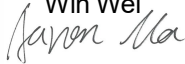


Compiled by:



Win Wei

Approved by:



Aaron Ma

Reviewed by:



Keven Tan

Date:

Jun. 02, 2026

Check No.:9005160426

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2 General Information

2.1 Client Information

Applicant:	Xiamen Print Future Technology Co.,Ltd.
Address of Applicant:	Room 701, No.55 Dongling Road, Houxi Town, Jimei District, Xiamen City, Fujian Province, China
Manufacturer:	Xiamen Print Future Technology Co.,Ltd.
Address of Manufacturer:	Room 701, No.55 Dongling Road, Houxi Town, Jimei District, Xiamen City, Fujian Province, China
Factory:	Xiamen Print Future Technology Co.,Ltd.
Address of Factory:	Rooms 501, 601, 701, No.55 Dongling Road, Houxi Town, Jimei District, Xiamen City, Fujian Province, China

2.2 General Description of EUT

Product Name:	Thermal Printer
Model No.:	ST83, T11, T22, T18, T810, T88, T99, T818, S18, S11, T8810, W11, W16, W18, V83, VT83, ST83A, ST83B, ST83C, ST83D, ST83E, ST83F, ST83G, ST83H, ST83I, ST83J, ST83K, ST83L, ST83M, ST83N, ST83O, ST83P, ST83Q, ST83R, ST83S, ST83T, ST83U, ST83V, ST83W, ST83X, ST83Y, ST83Z
Test Model No.:	ST83
Model difference:	They have same electrical, PCB and layout, only the model names and color are different for marketing requirements.
Trade Mark:	N/A

2.3 Product Specification subjective to this standard

Frequency Range:	BLE/BT: 2402MHz~2480MHz	
Modulation Type:	BLE: GFSK BT: GFSK	
Test Power Grade:	Default	
Test Software of EUT:	fcc_test_tool.exe	
Antenna Type:	PCB antenna	
Antenna Gain:	2.58dBi	
Power Supply:	Battery:	DC7.4V
Sample Received Date:	Apr. 16, 2026	
Sample tested Date:	Apr. 23, 2026 to May 08, 2026	

2.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164, Test Firm Registration No.: 260439

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.

2.7 Other Information Requested by the Customer

None.

3 SAR Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3.1.3 EUT RF Exposure Evaluation**For Stand alone:**

Band	Freq. (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
BLE	2480	0.5	-1.5	2.58	-1.07	0.78	2.717	0.2877	Pass
BT	2480	0.5	-2.49	2.58	-2.06	0.62	2.717	0.2290	Pass

Note:

- ① EIRP=conducted power+antenna gain;
- ② ERP=EIRP-2.15;
- ③ EIRP(dBm) = Field strength of the fundamental signal(dBuV/m@3m) – 95.23;
- ④ $ERP(mW) = 10^{(ERP(dBm)/10)}$;
- ⑤ The estimation distance is 0.5cm;
- ⑥ The test data please refer to the report of EED32S80827001, EED32S80827002 and only the worst case data was recorded in the report.

Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
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*** End of Report ***