FCC TEST REPORT

FCC ID: 2A74AS1

Report No. : SSP24080246-1E

Applicant: Xiamen Lujiang Technology Co., Ltd.

Product Name: Mini Pocket Printer

Model Name : S1

Test Standard: FCC Part 15.247

Date of Issue : 2024-09-03



Shenzhen CCUT Quality Technology Co., Ltd.

1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China; (Tel.:+86-755-23406590 website: www.ccuttest.com)

This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.

FCC Test Report Page 1 of 18

APPROVE

Test Report Basic Information

Applicant..... Xiamen Lujiang Technology Co., Ltd.

Room 601-2, No.63-1, Wanghai Road, Software Park Phase II, Torch Hi-Tech

Address of Applicant....: Zone, Xiamen, China

Manufacturer..... Xiamen Lujiang Technology Co., Ltd.

Room 601-2, No.63-1, Wanghai Road, Software Park Phase II, Torch Hi-Tech

Address of Manufacturer.....: Zone, Xiamen, China

Product Name....: Mini Pocket Printer

Brand Name.....

Main Model..... S1

Series Models...... S1H, A1, A1S, Q1, Q1S, LJS1A, LJS1B

FCC Part 15 Subpart C

ANSI C63.4-2014

Test Standard...... ANSI C63.10-2013

Test Result...... PASS

(Colin Chen)

(Lieber Ouyang)

Authorized Signatory.... (Lahm Peng)

Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.. All test data presented in this test report is only applicable to presented test sample.

FCC Test Report Page 2 of 18

CONTENTS

1. General Information	5
1.1 Product Information	5
1.2 Test Setup Information	6
1.3 Compliance Standards	7
1.4 Test Facilities	7
1.5 List of Measurement Instruments	8
1.6 Measurement Uncertainty	8
2. Summary of Test Results	9
3. Conducted Emissions	10
3.1 Standard and Limit	10
3.2 Test Procedure	10
3.3 Test Data and Results	11
4. Radiated Emissions	14
4.1 Standard and Limit	
4.2 Test Procedure	
5.3 Test Data and Results	16

Report No: SSP24080246-1E

Revision	Issue Date	Description	Revised By
V1.0	2024-09-03	Initial Release	Lahm Peng

FCC Test Report Page 4 of 18

1. General Information

1.1 Product Information

Product Name:	Mini Pocket Printer
Trade Name:	-
Main Model:	S1
Series Models:	S1H, A1, A1S, Q1, Q1S, LJS1A, LJS1B
Rated Voltage:	DC 3.7V by battery, USB 5V charging
Battery:	DC 3.7V, 1200mAh, 4.44Wh
Hardware Version:	SL-YY-S1-YL-V1.0
Software Version:	B58N-V2.0

Report No: SSP24080246-1E

Note 1: The test data is gathered from a production sample, provided by the manufacturer.

Note 2: The color of appearance and model name of series models listed are different from the main model, but the circuit and the electronic construction are the same, declared by the manufacturer.

Note 3: The battery capacity has changed from DC 3.7V, 1500mAh, 5.44Wh to the current DC 3.7V, 1200mAh, 4.44Wh

Wireless Specification	
Wireless Standard:	Bluetooth BR+RDR
Operating Frequency:	2402MHz ~ 2480MHz
Number of Channel:	BR+EDR: 79
Channel Separation:	BR+RDE: 1MHz
Modulation:	GFSK, Pi/4 DQPSK, 8DPSK
Antenna Gain:	-1dBi
Type of Antenna:	PCB Antenna
Type of Device:	☐ Portable Device ☐ Mobile Device ☐ Modular Device

FCC Test Report Page 5 of 18

List of Test Mo	odes						
Test Mode	De	escription		Remark			
TM1	Low	est Channel		2402MHz(BR+EDR)			
TM2	Mide	dle Channel		2441MHz(BR+EDR)			
TM3	High	est Channel		2480MHz(BR	+EDR)		
List and Details of Auxiliary Cable							
Descrip	otion	Length (cm)		Shielded/Unshielded	With/Without Ferrite		
-		-		-	-		
-		-		-	-		
List and Detail	List and Details of Auxiliary Equipment						
Descrip	Description Manufacturer		Model	Serial Number			
Adap	ter	xiaomi		xiaomi		MDY-12-EF	HC78E2N6A23645
-		-		-		-	-

Report No: SSP24080246-1E

List of Chann	nels						
No. of	Frequency	No. of	Frequency	No. of	Frequency	No. of	Frequency
Channel	(MHz)	Channel	(MHz)	Channel	(MHz)	Channel	(MHz)
01	2402	21	2422	41	2442	61	2462
02	2403	22	2423	42	2443	62	2463
03	2404	23	2424	43	2444	63	2464
04	2405	24	2425	44	2445	64	2465
05	2406	25	2426	45	2446	65	2466
~	~	~	~	~	~	~	~
16	2417	36	2437	56	2457	76	2477
17	2418	37	2438	57	2458	77	2478
18	2419	38	2439	58	2459	78	2479
19	2420	39	2440	59	2460	79	2480
20	2421	40	2441	60	2461		

FCC Test Report Page 6 of 18

1.3 Compliance Standards

Compliance Standards			
ECC Bout 15 Cubmout C	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES,		
FCC Part 15 Subpart C	Intentional Radiators		
All measurements contained in this	s report were conducted with all above standards		
According to standards for test	methodology		
ECC Bout 15 Cubmout C	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES,		
FCC Part 15 Subpart C	Intentional Radiators		
	American National Standard for Methods of Measurement of Radio-Noise Emissions		
ANSI C63.4-2014	from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40		
	GHz.		
ANCI ((2) 10, 2012	American National Standard of Procedures for Compliance Testing of Unlicensed		
ANSI C63.10-2013	Wireless Devices		
Maintenance of compliance is the responsibility of the manufacturer or applicant. Any modification of the product, which			
result is lowering the emission, should be checked to ensure compliance has been maintained.			

Report No: SSP24080246-1E

1.4 Test Facilities

tang Street,
_

All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China.

FCC Test Report Page 7 of 18

1.5 List of Measurement Instruments

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date	
Conducted Emissions						
AMN	ROHDE&SCHWARZ	ENV216	101097	2024-08-07	2025-08-06	
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100242	2024-08-07	2025-08-06	
		Radiated Emission	ons			
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100154	2024-08-07	2025-08-06	
Spectrum Analyzer	KEYSIGHT	N9020A	MY48030972	2024-08-07	2025-08-06	
Spectrum Analyzer	ROHDE&SCHWARZ	FSV40-N	101692	2024-08-07	2025-08-06	
Amplifier	SCHWARZBECK	BBV 9743B	00251	2024-08-07	2025-08-06	
Amplifier	HUABO	YXL0518-2.5-45		2024-08-07	2025-08-06	
Amplifier	COM-MW	DLAN-18G-4G-02	10229104	2024-08-07	2025-08-06	
Loop Antenna	DAZE	ZN30900C	21104	2024-08-03	2025-08-02	
Broadband Antenna	SCHWARZBECK	VULB 9168	01320	2024-08-03	2025-08-02	
Horn Antenna	SCHWARZBECK	BBHA 9120D	02553	2024-08-03	2025-08-02	
Horn Antenna	COM-MW	ZLB7-18-40G-950	12221225	2024-08-03	2025-08-02	
	Conducted RF Testing					
RF Test System	MWRFTest	MW100-RFCB	220418SQS-37	2024-08-07	2025-08-06	
Spectrum Analyzer	KEYSIGHT	N9020A	ATO-90521	2024-08-07	2025-08-06	

Report No: SSP24080246-1E

1.6 Measurement Uncertainty

Test Item	Conditions	Uncertainty
Conducted Emissions	9kHz ~ 30MHz	±1.64 dB
	9kHz ~ 30MHz	±2.88 dB
Radiated Emissions	30MHz ∼ 1GHz	±3.32 dB
Radiated Emissions	1GHz ~ 18GHz	±3.50 dB
	18GHz ~ 40GHz	±3.66 dB
Conducted Output Power	9kHz ~ 26GHz	±0.50 dB
Occupied Bandwidth	9kHz ~ 26GHz	±4.0 %
Conducted Spurious Emission	9kHz ~ 26GHz	±1.32 dB

FCC Test Report Page 8 of 18

2. Summary of Test Results

FCC Rule	Description of Test Item	Result
FCC Part 15.207	Conducted Emissions	Passed
FCC Part 15.209, 15.247(d)	Radiated Emissions	Passed

Report No: SSP24080246-1E

Passed: The EUT complies with the essential requirements in the standard

Failed: The EUT does not comply with the essential requirements in the standard

N/A: Not applicable

FCC Test Report Page 9 of 18

3. Conducted Emissions

3.1 Standard and Limit

According to the rule FCC Part 15.207, Conducted emissions limit, the limit for a wireless device as below:

Frequency of Emission	Conducted emissions (dBuV)		
(MHz)	Quasi-peak	Average	
0.15-0.5	66 to 56	56 to 46	
0.5-5	56	46	
5-30	60	50	

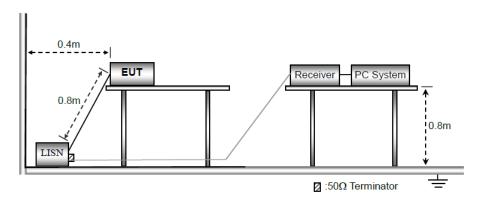
Report No: SSP24080246-1E

Note 1: Decreases with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz

Note 2: The lower limit applies at the band edges

3.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.2.



Test Setup Block Diagram

- a) The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.
- b) The following is the setting of the receiver

Attenuation: 10dB

Start Frequency: 0.15MHz Stop Frequency: 30MHz IF Bandwidth: 9kHz

c) The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

FCC Test Report Page 10 of 18

d) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

Report No: SSP24080246-1E

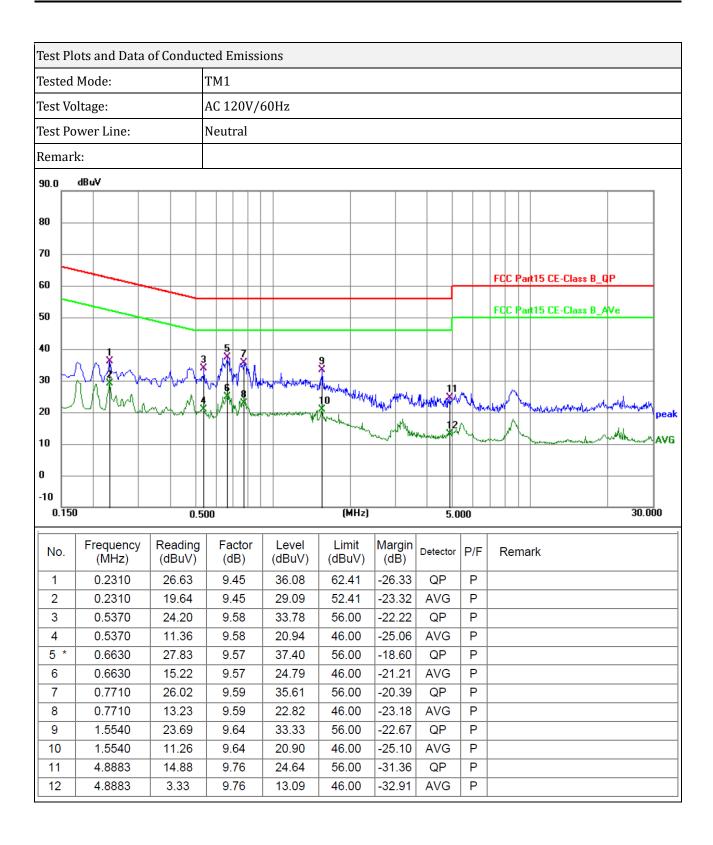
- e) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- f) LISN is at least 80 cm from nearest part of EUT chassis.
- g) For the actual test configuration, please refer to the related Item photographs of the test setup.

3.3 Test Data and Results

Based on all tested data, the EUT complied with the FCC Part 15.207 standard limit for a wireless device, and with the worst case as below:

Remark: Level = Reading + Factor, Margin = Level - Limit

FCC Test Report Page 11 of 18



FCC Test Report Page 12 of 18

Test Plots and Data of Cond	acted Emission	ons						
Tested Mode:	TM1							
Test Voltage:	AC 120V/60Hz							
Test Power Line:	Live							
Remark:								
90.0 dBuV								
80								
70								
"								
60							FCC Part15 CE-Class B_QP	
50							FCC Part15 CE-Class B_AVe	
40 3	*		7					
30	Mary Mary	my the bearing a	<u> </u>	9			11	
20) · · · · · · · · · · · · · · · · · · ·	& WAY HILL	and the same of the same	Mary Mary Mary Mary Mary Mary Mary Mary	A Maria	Benefit Barren and Alfred Harris and Mary Land Mary Land	peak
			white the state of	10	,	V.		AVG
10			1 1 1 1 1	WANTED IN	Managarapara	_	And I want to the same of the	440
0								
-10								
0.150	.500	·	(MHz)		5.000		30.00	0
No. Frequency Readin		Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark	
1 0.1723 26.96	9.40	36.36	64.85	-28.49	QP	Р		\neg
2 0.1723 20.67	9.40	30.07	54.85	-24.78	AVG	Р		
3 0.4686 22.65	9.58	32.23	56.54	-24.31	QP	Р		
4 0.4686 11.58		21.16	46.54	-25.38	AVG	Р		_
5 * 0.7035 26.73		36.29	56.00	-19.71	QP	Р		-
6 0.7035 12.07 7 1.5720 21.13		21.63 30.77	46.00 56.00	-24.37 -25.23	AVG QP	P P		\dashv
8 1.5720 9.63	9.64	19.27	46.00	-26.73	AVG	Р		\dashv
9 3.1740 16.07		25.76	56.00	-30.24	QP	P		\dashv
10 3.1740 4.90	9.69	14.59	46.00	-31.41	AVG	Р		\dashv
11 8.6052 18.16		27.92	60.00	-32.08	QP	Р		
12 8.6052 7.95	9.76	17.71	50.00	-32.29	AVG	Р		

FCC Test Report Page 13 of 18

4. Radiated Emissions

4.1 Standard and Limit

According to §15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Report No: SSP24080246-1E

According to the rule FCC Part 15.209, Radiated emission limit for a wireless device as below:

Funguerary of amigains (MII-)	Radiated emissions (3m)				
Frequency of emission (MHz)	Quasi-peak (dBuV/m)				
30-88	40				
88-216	43.5				
216-960	46				
Above 960	54				
Note: The more stringent limit applies at transition frequencies.					

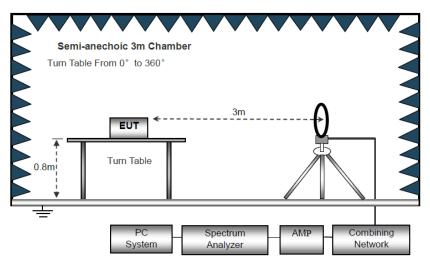
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

Note: Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

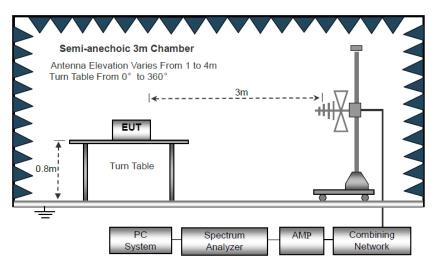
4.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.3 to 6.6.

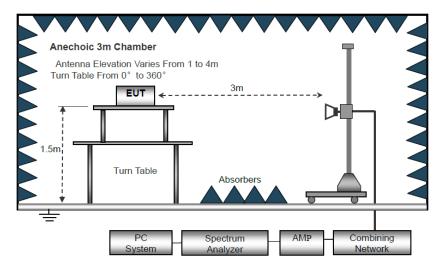
FCC Test Report Page 14 of 18



Block Diagram of Radiated Emission Below 30MHz



Block Diagram of Radiated Emission From 30MHz to 1GHz



Block Diagram of Radiated Emission Above 1GHz

FCC Test Report Page 15 of 18

a) The EUT is placed on a turntable, which is 0.8m above ground plane for test frequency range blew 1GHz, and 1.5m above ground plane for test frequency range above 1GHz.

Report No: SSP24080246-1E

- b) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- c) Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \ge 1$ GHz, 100 kHz for f < 1 GHz, 10kHz for f < 30MHz

VBW ≥ RBW, Sweep = auto

Detector function = peak

Trace = max hold

- d) Follow the guidelines in ANSI C63.4-2014 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- e) The peak level, once corrected, must comply with the limit specified in Section 15.209. Set the RBW = 1MHz, VBW = 10Hz, Detector = PK for AV value, while maintaining all of the other instrument settings.
- f) For the actual test configuration, please refer to the related item EUT test photos.

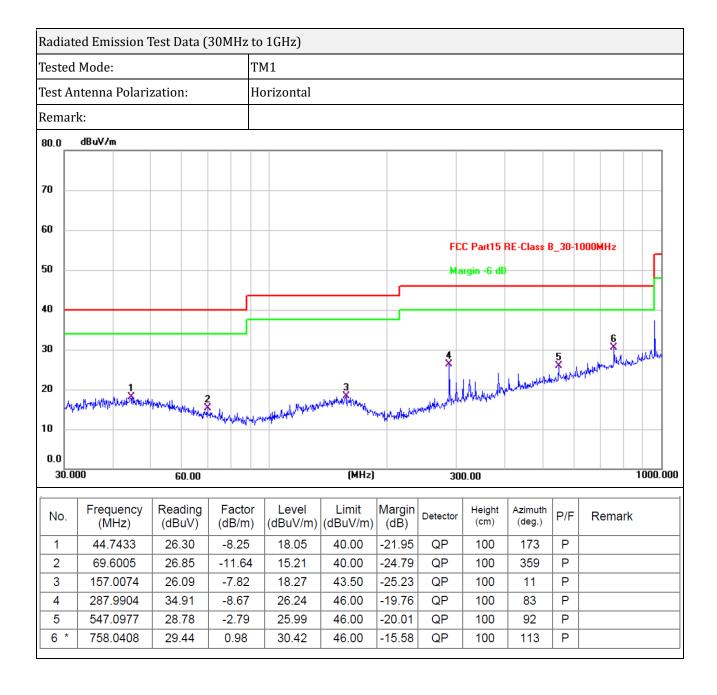
5.3 Test Data and Results

Based on all tested data, the EUT complied with the FCC Part 15.247 standard limit for a wireless device, and with the worst case as below:

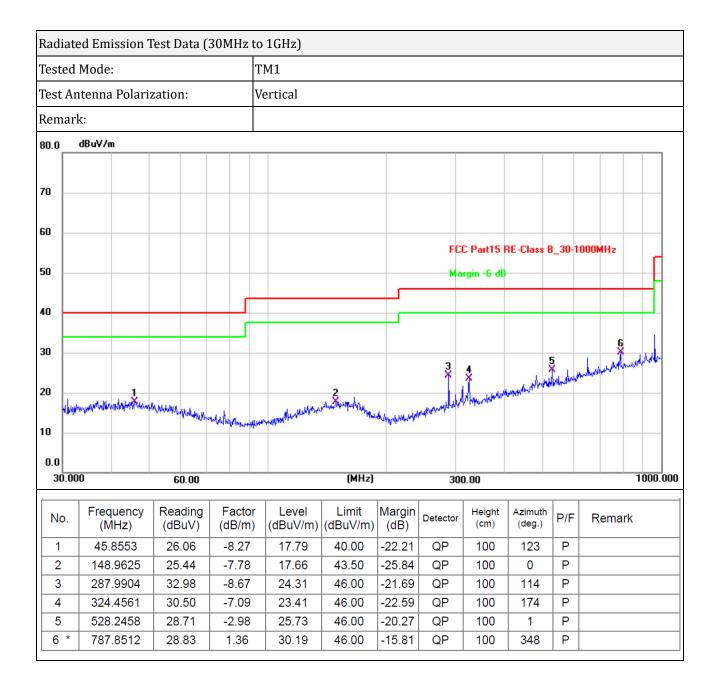
Remark: Level = Reading + Factor, Margin = Level - Limit

For 9kHz-30MHz, the amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

FCC Test Report Page 16 of 18



FCC Test Report Page 17 of 18



***** END OF REPORT *****

FCC Test Report Page 18 of 18