

TEST REPORT

REPORT NUMBER: 25B02W000008-003

ON

Type of Equipment: Smart POS system

Type of Designation: T6F10

Brand Name: SUNMI

Manufacturer: Shanghai Sunmi Technology Co.,Ltd.

FCC ID: 2AH25T6F10

ACCORDING TO

**FCC 47 CFR Part 24; FCC 47 CFR Part 22; FCC 47 CFR Part 2; ANSI
C63.26-2015**

Chongqing Academy of Information and Communications Technology

Month date, year

Jun.10th, 2025

Signature

Zhou Jin

Director

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of Chongqing Academy of Information and Communications Technology.



Report No.: 25B02W000008-003

Revision Version

Report Number	Revision	Date
25B02W000008-003	00	2025-06-10

Chongqing Academy of Information and Communication Technology

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1. Test Laboratory

1.1. Testing Location

Name:	Chongqing Academy of Information and Communications Technology
Designation Number:	CN1239
Address:	No.19EastRoad,Xiantao Big-data Valley,Yubei District,Chongqing,People's Republic of China
Postal Code:	401336
Telephone:	0086-23-88069965
Fax:	0086-23-88608777

1.2. Testing Environment

Normal Temperature:	15-35°C
Relative Humidity:	30-60%

1.3. Project data

Testing Start Date:	2025-04-16
Testing End Date:	2025-05-08

1.4. Signature

2025-06-10

Li Runhao
(Prepared this test report)

Date

2025-06-10

Xiao Yu
(Reviewed this test report)

Date

2025-06-10

Zhou Jin
Director of the laboratory
(Approved this test report)

Date

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2. Client Information

2.1. Applicant Information

Company Name:	Shanghai Sunmi Technology Co.,Ltd.
Address /Post:	Room 505, No.388 Song Hu Road, Yang Pu District, Shanghai, China
City:	Shanghai
Country:	China
Telephone:	18826519551
Fax:	N/A
Email:	chenxuanfei@sunmi.com
Contact Person:	chenxuanfei

2.2. Manufacturer Information

Company Name:	Shanghai Sunmi Technology Co.,Ltd.
Address /Post:	Room 505, No.388 Song Hu Road, Yang Pu District, Shanghai, China
City:	Shanghai
Country:	China
Telephone:	18826519551
Fax:	N/A
Email:	chenxuanfei@sunmi.com
Contact Person:	chenxuanfei

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3. Equipment under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

EUT Description	Smart POS system
Model name	T6F10
Brand name	SUNMI
GSM Frequency Band	GSM:850/900/1800/1900
WCDMA Frequency Band	WCDMA Band I/II/IV/V/VI/VIII/XIX
LTE Frequency Band	LTE Band 1/2/3/4/5/7/8/18/19/20/26/28/34/38/39/40/41
Type of GSM modulation	GMSK/8PSK
Power Class 2	N/A
Power Class 3	N/A
HVIN	T6F10
Extreme Temperature	-10/+50°C
Nominal Voltage	7.7V
Extreme High Voltage	8.8V
Extreme Low Voltage	6.0V

Note: Photographs of EUT are shown in ANNEX A of this test report.

Note: High and low voltage values in extreme condition test are given by manufacturer.

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
25B02W000008#S1	866413070768997;866413070770860	V1.0(LA+EU)	V3.0.0	2025-04-16

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Outline of Equipment under Test

Technology	Band	UL Freq.(MHz)	DL Freq.(MHz)	Note
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Technology	Band	UL Freq.(MHz)	DL Freq.(MHz)	Note
2G	850	824-849	869-894	N/A
	1900	1850-1910	1930-1990	N/A

No.	Maximum of Antenna Gain	Data
1	GSM 850	-1.63 dBi
2	PCS 1900	0.46 dBi

Note: The data of antenna gain is provided by the customer may affect the validity of the test results in this report, and the impact and consequences of this shall be undertaken by the customer.

3.4. Internal Identification of AE used during the test

AE ID*	Description	Note
A1	Adapter	Model: TPA-23A050200UU01 INPUT: 100-240V~50/60Hz 0.3A OUTPUT: 5.0V2.0A
C1	USB Cable	N/A
B1	Battery	Model: FHPS 7.74V, 3000mAh

*AE ID: is used to identify the test sample in the lab internally.

4. Reference Documents

4.1. Documents supplied by applicant

PICS/PIXIT, referring to Annex B for detailed information, is supplied by the client or manufacturer, which is the basis of testing.

4.2. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC 47 CFR Part 2	FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS	--
FCC 47 CFR Part 22	PUBLIC MOBILE SERVICES	--
FCC 47 CFR Part 24	PERSONAL COMMUNICATIONS SERVICES	--
ANSI C63.26	American National Standard of Procedures for Compliance Testing of Licensed Transmitters Used in Licensed Radio	2015
KDB 971168 D01 Power Meas License Digital Systems	Measurement Guidance for Certification of Licensed Digital Transmitters	v03r01
Note: The standard of FCC 47 CFR Part 2 and KDB 971168 D01 Power Meas License Digital Systems have not been accredited by A2LA.		

5. Test Equipments Utilized

5.1. RSE Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufa cture	Cal.Due Date
1	Universal Radio Communication Tester	CMW500	128181	--	--	R&S	2025-06-28
2	Test Receiver	ESU40	100350	01	4.43 SP3	R&S	2025-06-28
3	Ultra-wideband Log Periodic Antenna	VULB 9163	9163-586	--	--	Schwarzbeck	2026-10-28
4	Double Ridged Guide Antenna	9120D	9120D-1103	--	--	Schwarzbeck	2026-05-13
5	Ultra-wideband Log Periodic Antenna	VULB 9163	00995	--	--	Schwarzbeck	2025-09-11
6	Double Ridged Guide Antenna	9120D	9120D-1083	--	--	Schwarzbeck	2026-11-08
7	High gain horn antenna	DATE 1152	LM7127	--	--	ETS	2026-09-30
8	Generator	SMU 200A	104517	--	--	R&S	2025-06-28
9	Amplifier1	SCU-08F1	8320027	--	--	R&S	--
10	Amplifier2	SCU-18F	180093	--	--	R&S	--
11	Test Receiver	ESW 26	101382	00	1.50 SP1	R&S	2025-06-28

5.2. Anechoic chamber Vibration table

No.	Name	Type	SN	HW Version	SW Version	Manufacture	Cal.Due Date
1	Fully-Anechoic Chamber	FAC-5	--	--	--	TDK	2027-11-04
2	Anechoic Chamber	SAC-10	--	--	--	TDK	2027-11-05

5.3. Test software

No.	Name	version	SN	Manufacture
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1	EMC32	V9.26.01	--	R&S
2	EMC 32	V10.20.01	--	R&S

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6. Test Results

6.1. Summary of Test Results

A brief summary of the tests carried out is shown as following.

GSM850

FCC rules	Name of Test	Result
2.1046/24.232(c)	Output Power/EIRP	Pass(Note 2)
2.1053/24.238(a)	Emission Limit	Pass
2.1055/24.235	Frequency Stability	Pass(Note 2)
2.1049	Occupied Bandwidth	Pass(Note 2)
2.1049	Emission Bandwidth	Pass(Note 2)
2.1051/24.238(a)	Band Edge Compliance	Pass(Note 2)
2.1051/24.238(a)	Conducted Spurious Emission	Pass(Note 2)
24.232 (d)	Peak to Average Power Ratio	Pass(Note 2)

PCS1900

FCC rules	Name of Test	Result
2.1046/22.913(a)	Output Power/ERP	Pass(Note 2)
2.1053/22.917(a)	Emission Limit	Pass
2.1055/22.355	Frequency Stability	Pass(Note 2)
2.1049	Occupied Bandwidth	Pass(Note 2)
2.1049	Emission Bandwidth	Pass(Note 2)
2.1051/22.917(a)	Band Edge Compliance	Pass(Note 2)
2.1051/22.917(a)	Conducted Spurious Emission	Pass(Note 2)
N/A	Peak to Average Power Ratio	Pass(Note 2)

Note 1:

The T6F10 manufactured by Shanghai Sunmi Technology Co.,Ltd. is a variant product for testing.

This project is a variant project based on the original report 24T041300102-005 issued by 3in with below changes:

- Add secondary screen at the top of the EUT (NFC antenna will change at the same time)
- Add secondary battery.

According to the Product Change Description, we mainly verified the worst mode of Radiated

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Spurious Emission.

Note 2:

The test data is reported by reference to 24T041300102-005 issued by 3in.

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6.2. EMISSION LIMIT

Specifications:	FCC Part 2.1053/22.917(a)/24.238(a)
DUT Serial Number:	25B02W000008#S1
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60%
Test Results:	Pass

6.2.1. Measurement Limit

FCC §22.917/24.238(a) specifies that " In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts). (ii) After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required." Limit -13 dBm

6.2.2. Method of Measurement

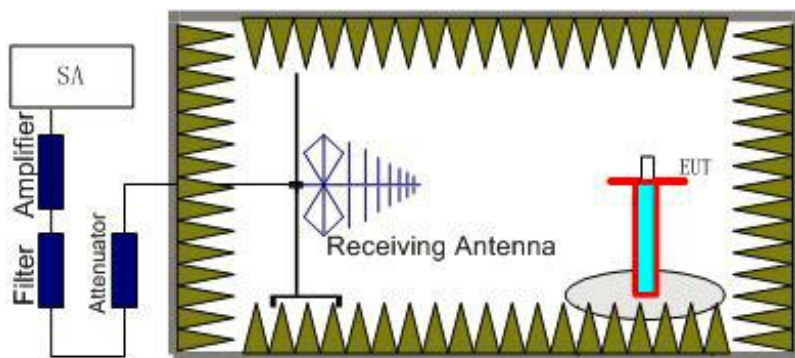
The measurements procedures in TIA-603E-2016 are used.

The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment. The resolution bandwidth is set as outlined in Part 24.238 and Part 24.917.

The spectrum is scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of GSM Bands.

The procedure of radiated spurious emissions is as follows

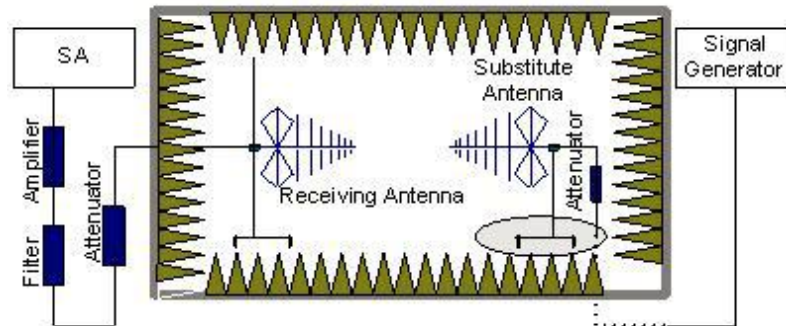
1. EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10thharmonic were measured with peak detector.



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2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as (Pr).
3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (P_{Mea}) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (Pr). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. The Path loss (P_{cl}) between the Signal Source with the Substitution Antenna and the Substitution Antenna Gain (G_a) should be recorded after test.

A amplifier should be connected in for the test.

The Path loss (P_{cl}) is the summation of the cable loss .

The test results are obtained as described below:

$$\text{Power(EIRP)} = P_{\text{Mea}} - P_{\text{cl}} + G_a$$

5. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.

6. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP - 2.15dBi

6.2.3. Measurement Uncertainty

Expanded Uncertainty	30MHz-150MHz 3.82 dB (k=2) 150MHz-1000MHz 3.97 dB (k=2) 1000MHz-3000MHz 3.09 dB (k=2) 3000MHz-6000MHz 3.29 dB (k=2) 6000MHz-18000MHz 3.91 dB (k=2) 18000MHz-26000MHz 4.60 dB (k=2) 26000MHz-40000MHz 4.77 dB (k=2)
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6.2.4. Measurement Results

RSE-G1900-L

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
3859.2	-54.09	6.7	7.9	-52.89	-13	39.89	H
5791.2	-54.41	8.4	10.2	-52.61	-13	39.61	V
7720.8	-54.32	9.8	11.8	-52.32	-13	39.32	V
9643.2	-50.86	10.8	12.7	-48.96	-13	35.96	H
11602.8	-46.16	12.2	12.3	-46.06	-13	33.06	H
13558.8	-44.96	13.8	12.3	-46.46	-13	33.46	V

RSE-G1900-M

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
3759.6	-50.89	6.6	7.9	-49.59	-13	36.59	V
5884.2	-53.39	8.5	10.2	-51.69	-13	38.69	V
7842.0	-52.65	9.9	11.8	-50.75	-13	37.75	H
9818.4	-50.68	11.0	12.5	-49.18	-13	36.18	V
11766.0	-47.27	12.5	12.3	-47.47	-13	34.47	V
13725.6	-45.91	13.9	12.3	-47.51	-13	34.51	V

RSE-G1900-H

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
3819.0	-49.47	6.7	7.9	-48.27	-13	35.27	V
5769.6	-53.02	8.5	10.2	-51.32	-13	38.32	V
7638.0	-54.43	9.7	11.8	-52.33	-13	39.33	H

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9553.2	-51.82	10.8	12.7	-49.92	-13	36.92	H
11640.0	-45.49	12.2	12.3	-45.39	-13	32.39	V
13372.8	-44.24	13.7	12.3	-45.64	-13	32.64	V

RSE-GPRS1900-L

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
3861.0	-53.29	6.7	7.9	-52.09	-13	39.09	H
5792.4	-54.53	8.4	10.2	-52.73	-13	39.73	H
7717.2	-53.96	9.8	11.8	-51.96	-13	38.96	V
9656.4	-51.52	10.9	12.7	-49.72	-13	36.72	V
11578.8	-46.55	12.2	12.3	-46.45	-13	33.45	V
13522.8	-44.85	13.7	12.3	-46.25	-13	33.25	H

RSE-GPRS1900-M

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
3760.2	-50.53	6.6	7.9	-49.23	-13	36.23	V
5640.6	-53.77	8.3	10.2	-51.87	-13	38.87	V
7518.0	-52.49	9.7	11.6	-50.59	-13	37.59	H
9400.8	-51.13	10.7	12.7	-49.13	-13	36.13	V
11254.8	-46.8	12.1	12.3	-46.6	-13	33.60	V
13182.0	-45.28	13.0	12.3	-45.98	-13	32.98	V

RSE-GPRS1900-H

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization

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3819.0	-49.38	6.7	7.9	-48.18	-13	35.18	V
5729.4	-54	8.5	10.2	-52.3	-13	39.30	V
7651.2	-53.84	9.7	11.8	-51.74	-13	38.74	H
9552.0	-51.28	10.8	12.7	-49.38	-13	36.38	V
11461.2	-47.54	12.3	12.3	-47.54	-13	34.54	V
13368.0	-44.06	13.7	12.3	-45.46	-13	32.46	H

RSE-EGPRS1900-L

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
3700.8	-50.64	6.6	7.9	-49.34	-13	36.34	V
5550.6	-51.84	8.2	9.8	-50.24	-13	37.24	V
7412.4	-52.09	9.7	11.6	-50.19	-13	37.19	V
9250.8	-49.79	10.7	12.7	-47.79	-13	34.79	V
11090.4	-47.1	12.1	12.3	-46.9	-13	33.90	V
12951.6	-43.66	13.2	12.3	-44.56	-13	31.56	H

RSE-EGPRS1900-M

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
3759.6	-48.82	6.6	7.9	-47.52	-13	34.52	V
5638.2	-54.17	8.3	10.2	-52.27	-13	39.27	H
7508.4	-52.34	9.7	11.6	-50.44	-13	37.44	H
9412.8	-51.2	10.7	12.7	-49.2	-13	36.20	V
11215.2	-46.74	12.1	12.3	-46.54	-13	33.54	V
13208.4	-45.6	13.0	12.3	-46.3	-13	33.30	H

RSE-EGPRS1900-H
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Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Test Result (dBm)	Limit (dBm)	Margin(dBm)	Polarization
3819.6	-49.77	6.7	7.9	-48.57	-13	35.57	V
5729.4	-52.87	8.5	10.2	-51.17	-13	38.17	H
7657.2	-53.68	9.7	11.8	-51.58	-13	38.58	V
9571.2	-51.42	10.8	12.7	-49.52	-13	36.52	H
11466.0	-46.9	12.3	12.3	-46.9	-13	33.90	V
13365.6	-43.58	13.7	12.3	-44.98	-13	31.98	V

Note: Only worse case is recorded in this report.



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Annex A EUT Photos

See the document” 25B02W000008-External Photos”.

See the document” 25B02W000008-Internal Photos”.

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Annex B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

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

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