

TEST REPORT

Application No.:	SUCR2411000455AT
Applicant:	Shanghai Sunmi Technology Co.,Ltd.
Address of Applicant:	Room 505, No.388 Song Hu Road, Yang Pu District, Shanghai, China
Manufacturer:	Shanghai Sunmi Technology Co.,Ltd.
Address of Manufacturer:	Room 505, No.388 Song Hu Road, Yang Pu District, Shanghai, China
EUT Description:	POS System
Model No.:	L15C1, L15D1-----♣
♣	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark:	SUNMI
FCC ID:	2AH25T3
Standards:	47 CFR Part 2.1091 FCC KDB 447498 D01 v06
Date of Receipt:	November 14, 2024
Date of Issue:	December 23, 2024
Test Result:	PASS*

* In the configuration tested, the EUT complied with the standards specified above.

Prepared by: Hayley Zhang/ Project Manager

Approved by: Cloud Peng/
Technical Manager

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1 Version

Revision Record

Version	Chapter	Date	Modifier	Remark
01		December 23, 2024		Original

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2 General Information

2.1 Client Information

Applicant:	Shanghai Sunmi Technology Co.,Ltd.
Address of Applicant:	Room 505, No.388 Song Hu Road, Yang Pu District, Shanghai, China
Manufacturer:	Shanghai Sunmi Technology Co.,Ltd.
Address of Manufacturer:	Room 505, No.388 Song Hu Road, Yang Pu District, Shanghai, China

2.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **A2LA (Certificate No. 6336.01)**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327

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2.3 General Description of EUT

EUT Description:	POS System
Model No.:	L15C1, L15D1
Trade Mark:	SUNMI
Hardware Version:	6225Coreboard_MB_V3.0
Software Version:	1.0.0
Power Supply:	24V
Antenna Type:	Internal Antenna
Antenna Gain*:	Bluetooth:2.2dBi 802.11b/g/n (HT20/40):2.2dBi 802.11a/n (HT20/40/VHT20/40/80): 5150MHz to 5250MHz: 2.20 dBi 5250MHz to 5350MHz: 2.90 dBi 5470MHz to 5725MHz: 3.70 dBi 5725MHz to 5850MHz: 3.90 dBi
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.

Note: *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.

Remark:

1. As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.
2. The only difference between the two models is that L15C1 comes with a printer and L15D1 does not come with a printer, everything else is exactly the same.

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3 RF Exposure Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

F=frequency in MHz

*=Plane-wave equivalent power density

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

Friis Formula

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 = gain of antenna in linear scale

$\pi = 3.1416$

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

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

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3.1.2 Test Procedure

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

3.1.3 EUT RF Exposure Evaluation

Output Power Into Antenna & RF Exposure Evaluation Distance:

This confirmed that the device comply with MPE limit.

Band	Frequency	Max power (dBm)	Ant Gain (dBi)	ERP (dBm)	Max ERP (mW)	Max Power (mW)	ERP 20 Limit (mW)	Distance R (cm)	Result	Ratio
Bluetooth	2480	9.78	2.2	9.83	9.62	9.51	3060	20	Pass	0.01
WLAN 2.4GHz	2437	20.19	2.2	20.24	105.68	104.47	3060	20	Pass	0.08
Wifi 5GHz B1	5180.0	15	2.2	15.05	31.99	31.62	3060	20	Pass	0.03
Wifi 5GHz B2	5260.0	15	2.9	15.75	37.58	31.62	3060	20	Pass	0.03
Wifi 5GHz B3	5500.0	15	3.7	16.55	45.19	31.62	3060	20	Pass	0.04
Wifi 5GHz B4	5745.0	15	3.9	16.75	47.32	31.62	3060	20	Pass	0.04

Remark: Frame-average power=Burst power+ Division Factors(-9.19)

For 13.56MHz: 53.37dBuV/m@3m=0.000066mW<1mW base on section 3.6 of SUCR241100045505

	Evaluation method	Exempt Limit(mW)	Verdict
<input checked="" type="checkbox"/>	Blanket 1 mW Blanket Exemption	1mW	Yes

So, the device is to qualify for SAR test exemption, the exemption report is in lieu of the SAR report.

---End of Report---

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