

TEST REPORT

Application No.:	SUCR2504000303AT
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:	Smart Interactive Terminal
Model No.:	F962A, F9E2A ♣
♣	Please refer to section 1.4 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark:	SUNMI
FCC ID:	2AH25F962A
Standards:	47 CFR Part 2.1091 FCC KDB 447498 D01 v06
Date of Receipt:	April 24, 2025
Date of Issue:	June 12, 2025

Test Result:	PASS*
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* In the configuration tested, the EUT complied with the standards specified above.

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Version

<i>Revision Record</i>			
<i>Version</i>	<i>Description</i>	<i>Date</i>	<i>Remark</i>
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Authorized for issue by:				
Tested By				
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1 General Information

1.1 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

1.2 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

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

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1.3 General Description of EUT

EUT Description:	Smart Interactive Terminal					
Model No.:	F962A, F9E2A					
Trade Mark:	SUNMI					
Hardware Version:	6225Coreboard_MB_V3.0					
Software Version:	4.0.12					
Power Supply:	20V					
Antenna Gain:	Bluetooth: F962A: 0.4dBi; F9E2A: 0.7dBi	WIFI 2.4G: F962A: 0.4dBi; F9E2A: 0.7dBi				
	5G WIFI(U-NII-1): F962A: -1.0dBi; F9E2A: -2.1dBi	5G WIFI(U-NII-2A): F962A: -0.8dBi; F9E2A: -2.1dBi				
	5G WIFI(U-NII-2C): F962A: -0.4dBi; F9E2A: -2.0dBi	5G WIFI(U-NII-3): F962A: -0.8dBi; F9E2A: -2.0dBi				
	NFC /					
	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: 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 RF Exposure Evaluation

2.1 RF Exposure Compliance Requirement

2.1.1 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.

2.1.2 Test Procedure

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

2.1.3 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 (mW)	Distance R (cm)	Limit (mW)	Result	Ratio
Bluetooth	2441	13.23	0.7	11.78	15.07	21.04	3060	20	3060	Pass	0.01
WLAN 2.4GHz	2437	26.81	0.7	25.36	343.56	479.73	3060	20	3060	Pass	0.16
WLAN 5GHz B1	5230	18.97	-1	15.82	38.19	78.89	3060	20	3060	Pass	0.03
WLAN 5GHz B2	5270	18.55	-0.8	15.6	36.31	71.61	3060	20	3060	Pass	0.02
WLAN 5GHz B3	5670	19.58	-0.4	17.03	50.47	90.78	3060	20	3060	Pass	0.03
WLAN 5GHz B4	5795	19.29	-0.8	16.34	43.05	84.92	3060	20	3060	Pass	0.03

For 13.56MHz: [53.25dBuV/m@3m=0.0000638mW](#) <1mW base on section 7 of SUCR250400030305

	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.

2.1.4 Exposure calculations for multiple sources

To ensure compliance with the MPE for a controlled environment, the sum of the ratios of the power density to the corresponding MPE should not exceed unity. That is

$$\sum_{i=1}^n \frac{S_i}{MPE_i} \leq 1$$

The product also has multiple transmitters. The Simultaneous Transmission Possibilities are as below:

Simultaneous Tx Combination	Configuration
1	Bluetooth+ WiFi 2.4G+ WiFi 5G

No.	Mode	Result Ratio	Total Ratio	Limit	Result
1	Bluetooth	0.01	0.20	1.00	Pass
	WiFi 2.4G	0.16			
	WiFi 5G	0.03			

Remark: This WWAN Band was recalculated on worst Band.

---End of Report---