

TEST REPORT

Application No.:	SUCR2507000619AT
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:	NFC&MSR&Scanner Modular
Model No.:	N4Z6A
Trade Mark:	SUNMI
FCC ID:	2AH25N4Z6A
Standards:	FCC 47 CFR Part 1.1307 FCC 47 CFR Part 1.1310 FCC KDB 447498 D01 v06
Date of Receipt:	August 1, 2025
Date of Issue:	August 4, 2025

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

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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Version

<i>Revision Record</i>			
<i>Version</i>	<i>Description</i>	<i>Date</i>	<i>Remark</i>
01	Original	August 4, 2025	/

Authorized for issue by:			
Tested By			
		Hayley Zhang / Project Manager	
Approved By			
		Cloud Peng/Technical Manager	

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

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Rev.: 01

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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

1.3 General Description of EUT

Hardware Version:	2.0.A
Software Version:	NA
Power Supply:	DC 5V
Operation Frequency:	13.56MHz
Modulation Type:	ASK
Antenna Type:	FPC Antenna
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

Based on KDB447498D01v06 4.3.1 c), SAR test exclusion threshold for NFC (13.56MHz) shall be evaluated as below,

For test separation distances \leq 50 mm, the power threshold determined by the equation in 4.3.1 c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$

The power threshold at 50mm/100 MHz in 4.3.1 b) is multiplied by $[1 + \log(100/f(\text{MHz}))]$ where f is 13.56MHz

The power threshold in 4.3.1 b) is $[\text{Power allowed at numeric threshold for 50 mm in 4.3.1 a}] + [(\text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150)]$ mW, for 100 MHz to 1500 MHz where test separation distance is 50mm, frequency is 100MHz.

Power allowed at numeric threshold for 50 mm in 4.3.1 a) is $[3/\sqrt{f(\text{GHz})}] \cdot (\text{test separation distance})$

Hence, SAR test exclusion threshold is calculated in reverse sequence:

a): $[3/\sqrt{0.1}] \cdot 50 = 474.3416 \text{ mW}$

b): $474.3416 + (50-50) \cdot (100/150) = 474.3416 \text{ mW}$

c): $474.3416 \cdot [1 + \log(100/13.56)] = 885.9470 \text{ mW}$

d): $885.9470 \cdot 0.5 = 442.974 \text{ mW}$

So the SAR test exclusion power threshold for NFC(13.56MHz) is 442.974mW(equal to 26.464dBm).

2.1.2 Test Result

Also, the maximum power of NFC is -41.68dBm (converted from 53.52 dBuV/m at 3m) and it is far below the exclusion threshold (26.464dBm), so SAR test for NFC can be excluded.

---End of Report---