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RF Exposure Evaluation Report

Report No.: CQASZ20260600010EX-06
Applicant: Shanghai Sunmi Technology Co.,Ltd.
Address of Applicant: Room 505, No.388, Song Hu Road, Yang Pu District, Shanghai, China
Equipment Under Test (EUT):
EUT Name: Smart Interactive terminal
Model No.: F951A
Test Model No.: F951A
Brand Name: SUNMI
FCC ID: 2AH25F951A
Standards: 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1091
447498 D04 Interim General RF Exposure Guidance v01
Date of Receipt: April 29, 2026
Date of Test: June 25, 2026
Date of Issue: July 1, 2026
Test Result: PASS*

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

Tested By: Azir Wang
(Azir Wang)

Reviewed By: Timo Lei
(Timo Lei)

Approved By: Jack Ai
(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20260600010EX-06	Rev.01	Initial report	July 1, 2026

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3 General Information

3.1 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
Factory:	
Address of Factory:	

3.2 General Description of EUT

Product Name:	Smart Interactive terminal
Model No.:	F951A
Test Model No.:	F951A
Trade Mark:	SUNMI
Software Version:	V4.4.1
Hardware Version:	FLEX3 V1.0
EUT Power Supply:	Input of AC Adapter: AC 100-240V, 0.9A, 50-60Hz Output of AC Adapter/Input of EUT: DC 24V, 1.5A

3.3 General Description of BT Classic

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	Bluetooth Spec 4.0
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Number of Channel:	79
Transfer Rate:	1Mbps/2Mbps/3Mbps
Hopping Channel Type:	Adaptive Frequency Hopping systems
Sample Type:	☒ Mobile ☐ Portable ☐ Fix Location
Antenna Type:	FPC Antenna
Antenna Gain:	2.1dBi

3.4 General Description of 2.4G WIFI Classic

Operation Frequency:	2412MHz~2462MHz
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channel:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels
Channel Separation:	5MHz
Transfer Rate:	IEEE for 802.11b: 1Mbps/2Mbps/5.5Mbps/11Mbps IEEE for 802.11g : 6Mbps/9Mbps/12Mbps/18Mbps/24Mbps/36Mbps/48Mbps/54Mbps IEEE for 802.11n(HT20) : 6.5Mbps/13Mbps/19.5Mbps/26Mbps/39Mbps/52Mbps/58.5Mbps/65Mbps IEEE for 802.11n(HT40) : 13.5Mbps/27Mbps/40.5Mbps/54Mbps/81Mbps/108Mbps/121.5Mbps/135Mbps
Sample Type:	☐ Mobile ☒ Portable ☐ Fix Location
Antenna Type:	FPC
Antenna Gain:	2.1 dBi

3.5 General Description of 5G WIFI Classic

Operation Frequency:	5150MHz ~5250MHz, 5250MHz ~5350MHz, 5470MHz ~5700MHz 5725MHz ~5850MHz
Type of Modulation:	OFDM
Number of Channel:	IEEE 802.11a/n/ac(20M): 5150MHz ~5250MHz/ 4 channel IEEE 802.11n/ac(40M): 5150MHz ~5250MHz/ 2 channel IEEE 802.11ac(80M): 5150MHz ~5250MHz/ 1 channel IEEE 802.11a/n/ac(20M): 5250MHz ~5350MHz/ 4 channel IEEE 802.11n/ac(40M): 5250MHz ~5350MHz/ 2 channel IEEE 802.11ac(80M): 5250MHz ~5350MHz/ 1 channel IEEE 802.11a/n/ac(20M): 5470MHz ~5725MHz/ 11 channel IEEE 802.11n/ac(40M): 5470MHz ~5725MHz/ 5 channel IEEE 802.11ac(80M): 5470MHz ~5725MHz/ 2 channel IEEE 802.11a/n/ac(20M): 5725MHz ~5850MHz/ 5 channel IEEE 802.11n/ac(40M): 5725MHz ~5850MHz/ 2 channel IEEE 802.11ac(80M): 5725MHz ~5850MHz/ 1 channel
Channel Separation:	5MHz
Operation Frequency:	IEEE 802.11a/n/ac(20M): 5150MHz ~5250 MHz IEEE802.11n/ac(40M): 5150MHz ~5250 MHz IEEE802.11ac(80M): 5150MHz ~5250 MHz

	IEEE 802.11a/n/ac(20M): 5250MHz ~5350 MHz IEEE802.11n/ac(40M): 5250MHz ~5350 MHz IEEE802.11ac(80M): 5250MHz ~5350 MHz IEEE 802.11a/n/ac(20M): 5470MHz ~5725 MHz IEEE802.11n/ac(40M): 5470MHz ~5725 MHz IEEE802.11ac(80M): 5470MHz ~5725 MHz IEEE 802.11a/n/ac(20M): 5725MHz ~5850 MHz IEEE802.11n/ac(40M): 5725MHz ~5850 MHz IEEE802.11ac(80M): 5725MHz ~5850 MHz
Sample Type:	☐ Mobile ☒ Portable ☐ Fix Location
Antenna Type:	FPC antenna
Antenna Gain:	5180-5320MHz: Max 1.7 dBi 5500-5825MHz: Max 1.9 dBi

Note:

The above parameters will directly affect the test results. The information is provided by the applicant.

3.6 Test Location

All tests were performed at:

SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD

SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD 102A, 102B, Building 2, Shanghenglang New Industrial Zone, Shanghenglang Community, Dalang Street, Longhua District, Shenzhen, Guangdong, People's Republic of China, 518000

3.7 Test Facility

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

IC Registration No.: 22984-1

The 3m Semi-anechoic chamber of SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

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

• CNAS (No. CNAS L5785)

CNAS has accredited SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD Shenzhen Branch
EMC

Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• A2LA (Certificate No. 4742.01)

SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD, Shenzhen EMC Laboratory is accredited by the

American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• FCC Registration No.: 522263

SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD, Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

4 MPE Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

The table applies to any RF source (i.e., single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least $\lambda/2\pi$. The thresholds are based on the general population MPE limits with a single perfect reflection, outside of the reactive near-field, and in the main beam of the radiator. For mobile devices that are not exempt per Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in § 1.1310 is necessary if the ERP of the device is greater than ERP_{20cm} in Formula (B.1) [repeated from § 2.1091(c)(1) and § 1.1307(b)(1)(i)(B)].

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i.e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave Dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

4.1.2 Test Procedure

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

4.1.3 EUT RF Exposure

1) For BT Classic

Measurement Data

GFSK mode				
Test channel	Max.Peak Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)
2402MHz	8.45	2.1	10.07	
Tune-up				
Tune up tolerance (dBm)		Maximum tune-up Power		
		(dBm)	(mW)	
10±1		11	12.6	

The ERP of this product is less than 3060mW

Note: 1) Refer to report No.CQASZ20260600010EX-01 for EUT test Max Conducted Peak Output Power value.
2) EUT's module is more than 20cm away from the human body.

2) For 2.4G WIFI Classic

Measurement Data

11B mode					
Test channel	EIRP (dBm)	ERP (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
				(dBm)	(mW)
Lowest(2412MHz)	18.75		18±1	19	79.433
Middle(2437MHz)	19.01		19±1	20	100
Highest(2462MHz)	18.78		18±1	19	79.433
11G mode					
Test channel	EIRP (dBm)	ERP (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
				(dBm)	(mW)
Lowest(2412MHz)	18.74		18±1	19	79.433
Middle(2437MHz)	20.58		20±1	21	125.892
Highest(2462MHz)	18.98		18±1	19	79.433
11N20 mode					
Test channel	EIRP (dBm)	ERP (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
				(dBm)	(mW)
Lowest(2412MHz)	18.66		18±1	19	79.433
Middle(2437MHz)	21		21±1	22	158.489
Highest(2462MHz)	18.83		18±1	19	79.433
11N40 mode					
Test channel	EIRP (dBm)	ERP (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
				(dBm)	(mW)
Lowest(2422MHz)	19.48		19±1	20	100
Middle(2437MHz)	20.6		20±1	21	125.892
Highest(2452MHz)	18.87		18±1	19	79.433

The ERP of this product is less than 3060mW

Note: 1) Refer to report No. CQASZ20260600010EX-04 for EUT test Max Conducted Peak Output Power value.

2) EUT's module is more than 20cm away from the human body.

3) For 5G WIFI Classic

Antenna Gain: 5180-5320MHz: Max 1.7 dBi 5500-5825MHz: Max 1.9 dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 5180-5320MHz: 1.48 dBi

5500-5825MHz: 1.55 dBi in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Measurement Data

11A mode					
Test channel(MHz)	EIRP (dBm)	ERP (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
				(dBm)	(mW)
5180	19.19		19±1	20	100
5200	19.64		19±1	20	100
5240	18.81		18±1	19	79.433
5260	18.81		18±1	19	79.433
5280	19.34		19±1	20	100
5320	14.6		14±1	15	31.62
5500	20.15		20±1	21	125.892
5600	20.27		20±1	21	125.892
5700	18.95		18±1	19	79.433
5745	19.14		19±1	20	100
5785	19.51		19±1	20	100
5825	19.53		19±1	20	100
11N20 mode					
Test channel	EIRP (dBm)	ERP (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
				(dBm)	(mW)
5180	19.28		19±1	20	100
5200	19.74		19±1	20	100
5240	19.91		19±1	20	100
5260	19.87		19±1	20	100
5280	19.25		19±1	20	100
5320	19.96		19±1	20	100
5500	20.07		20±1	21	125.892
5600	20.19		20±1	21	125.892
5700	18.83		18±1	19	79.433
5745	19.02		19±1	20	100
5785	19.47		19±1	20	100
5825	19.86		19±1	20	100
11N40 mode					

Test channel	EIRP (dBm)	ERP (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
				(dBm)	(mW)
5190	15.65		15±1	16	39.811
5230	19.56		19±1	20	100
5270	19.88		19±1	20	100
5310	14.63		14±1	15	31.623
5510	20.07		20±1	21	125.892
5590	19.75		19±1	20	100
5670	19.37		19±1	20	100
5755	19.4		19±1	20	100
5795	19.52		19±1	20	100
11AC20 mode					
Test channel	EIRP (dBm)	ERP (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
				(dBm)	(mW)
5180	19.07		19±1	20	100
5200	19.55		19±1	20	100
5240	19.67		19±1	20	100
5260	19.75		19±1	20	100
5280	19.72		19±1	20	100
5320	14.5		14±1	15	31.623
5500	19.59		19±1	20	100
5600	19.63		19±1	20	100
5700	19.27		19±1	20	100
5745	19.54		19±1	20	100
5785	19.48		19±1	20	100
5825	19.39		19±1	20	100
11AC40 mode					
Test channel	EIRP (dBm)	ERP (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
				(dBm)	(mW)
5190	14.87		14±1	15	31.623
5230	19.56		19±1	20	100
5270	19.38		19±1	20	100
5310	13.44		13±1	14	25.119
5510	19.56		19±1	20	100
5590	19.69		19±1	20	100
5670	19.33		19±1	20	100

5755	19.4		19±1	20	100
5795	19.51		19±1	20	100
11AC80 mode					
Test channel	EIRP (dBm)	ERP (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
				(dBm)	(mW)
5210	13.6		13±1	14	35.119
5290	11.59		11±1	12	15.849
5530	14.21		14±1	15	15.623
5610	19.49		19±1	20	100
5775	19.43		19±1	20	100

The ERP of this product is less than 3060mW

Note: 1) Refer to report No. CQASZ20260600010EX-03 for EUT test Max Conducted Peak Output Power value.

2) EUT's module is more than 20cm away from the human body.

Result:

Since BT and 2.4G WiFi share the same antenna, the worst mode is that 2.4G WiFi and 5G WiFi transmit at the same time.

2.4G WiFi + 5G WiFi=158.489+125.892=284.381< 3060(mW)

*** END OF REPORT ***