

TEST REPORT

No. I17D00262-SRD04

For

Client: Shanghai Sunmi Technology Co.,Ltd.

Production: POS System

Model Name: W5920

FCC ID: 2AH25V1SNFC

Hardware Version: 2.0

Software Version: 1.1.0

Issued date: 2018-01-12

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 ECIT Shanghai.

Test Laboratory:

ECIT Shanghai, East China Institute of Telecommunications

Add: 7-8F, G Area, No.668, Beijing East Road, Huangpu District, Shanghai, P. R. China

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Revision Version

Report No.: I17D00262-SRD04

Report Number	Revision	Date	Memo
I17D00262-SRD04	00	2018-01-12	Initial creation of test report

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1. Test Laboratory

1.1. Testing Location

Company Name:	ECIT Shanghai, East China Institute of Telecommunications						
Address:	7-8F, G Area, No. 668, Beijing East Road, Huangpu District,						
	Shanghai, P. R. China						
Postal Code:	200001						
Telephone:	(+86)-021-63843300						
Fax:	(+86)-021-63843301						

1.2. Testing Environment

Normal Temperature:	15-35°C
Extreme Temperature:	-10/+55℃
Relative Humidity:	20-75%

1.3. Project data

Project Leader:	Zhou Yan
Testing Start Date:	2017-12-14
Testing End Date:	2018-01-05

1.4. Signature

Shi Hongqi

施机旗

(Prepared this test report)

(Reviewed this test report)

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Zheng Zhongbin Director of the laboratory

(Approved this test report)



Address:

RF Test Report

2. Client Information

2.1. Applicant Information

Company Name: Shanghai Sunmi Technology Co.,Ltd.

Room 605, Block 7, KIC Plaza, No.388 Song Hu Road, Yang Pu

Report No.: I17D00262-SRD04

District, Shanghai, China

Postcode: 200433

Telephone: 18721763396

2.2. Manufacturer Information

Company Name: Shanghai Sunmi Technology Co.,Ltd.

Address: Room 605, Block 7, KIC Plaza, No.388 Song Hu Road, Yang Pu

District, Shanghai, China

Postcode: 200433

Telephone: 18721763396

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

3.1. About EUT

EUT Description	Wireless data POS System
Model name	W5920
FCC ID	2AH25V1SNFC/FRN:
Frequency	GSM850/900/1800/1900;
	WCDMA Band I/II/V/VIII
Extreme Temperature	-10/+55°C
Nominal Voltage	3.6 V
Extreme High Voltage	4.2 V
Extreme Low Voltage	3.5 V

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

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
N02	865150030317082	2.0	1.1.0	2017-11-24

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

3.3. Internal Identification of AE used during the test

AE ID*	Description	SN
AE1	RF cable	
AE2	Dummy Battery	

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

3.4. Statements

The W5920, supporting GPRS/WCDMA/BT/BLE/WIFI/GPS/NFC, manufactured by Shanghai Sunmi Technology Co.,Ltd.. is a variant product for testing.

We only test worst-case of RSE. The other test cases please refer to the prototype report No: CCISE170603501, which was prepared by Shenzhen Zhongjian Nanfang Testing Co.,Ltd

ECIT has verified that the compliance of the tested device specified in section 5 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 5 of this test report.

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4. Reference Documents

4.1. Reference Documents for testing

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

Reference	Title	Version
FCC Part 24	PERSONAL COMMUNICATIONS SERVICES	2014
FCC Part 22	PUBLIC MOBILE SERVICES	2014
ANSI-TIA-603-E	Land Mobile FM or PM Communications Equipment	2016
	Measurement and Performance Standards	
ANSI C63.4	Methods of Measurement of Radio-Noise Emissions from	2014
	Low-Voltage Electrical and Electronic Equipment in the	
	Range of 9 kHz to 40 GHz	





5. SUMMARY OF TEST RESULTS

Item	Test items	FCC rules	result
1	Emission Limit	2.1051/22.917/24.238/22.913/24.232	Pass

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6. Test Equipment Utilized

Climate chamber

No.	Equipment	Model	Serial Number	Manufactur er	Calibration date	Cal.interval
1	Climate chamber	SH-641	92012011	ESPEC	2017-12-25	2 Year

Radiated emission test system

The test equipment and ancillaries used are as follows.

No.	Equipment	Model	Serial Number	Manufactur er	Calibration date	Cal.interval
1	Universal Radio Communicatio n Tester	CMU20 0	123123	R&S	2017-05-11	1 Year
2	EMI Test Receiver	ESU40	100307	R&S	2017-05-11	1 Year
3	TRILOG Broadband Antenna	VULB9 163	VULB9163- 515	Schwarzbec k	2017-02-25	3 Year
4	Double- ridged Waveguide Antenna	ETS-31 17	00135890	ETS	2017-01-11	3 Year
5	2-Line V-Network	ENV21 6	101380	R&S	2017-05-11	1 Year
6	Substitution A ntenna	ETS-31 17	00135890	ETS	2017-01-11	3 Year
7	RF Signal Generator	SMF10 0A	102314	R&S	2017-05-11	1 Year
8	Substitution A ntenna	VUBA9 117	9117-266	Schwarzbec k	2017-11-18	3 Year
9	Amplifier	SCU08	10146	R&S	2017-05-11	1 Year

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7. Test Environment

Shielding Room1 (6.0 meters×3.0 meters×2.7 meters) did not exceed following limits along the conducted RF performance testing:

Temperature	Min. = 15 °C, Max. = 35 °C		
Relative humidity	Min. = 20 %, Max. = 75 %		
Shielding effectiveness	> 100 dB		
Ground system resistance	< 0.5 Ω		

Control room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. =25 %, Max. = 75 %
Shielding effectiveness	> 100 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω

Fully-anechoic chamber1 (6.9 meters×10.9 meters×5.4 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C			
·	,			
Relative humidity	Min. = 25 %, Max. = 75 %			
Shielding effectiveness	> 100 dB			
Electrical insulation	> 10 kΩ			
Ground system resistance	< 0.5 Ω			
VSWR	Between 0 and 6 dB, from 1GHz to 18GHz			
Site Attenuation Deviation	Between -4 and 4 dB,30MHz to 1GHz			
Uniformity of field strength	Between 0 and 6 dB, from 80MHz to 3000 MHz			

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ANNEX A. MEASUREMENT RESULTS

ANNEX A.1. RADIATED

A.1.1 EMISSION LIMIT (§2.1051/§22.917§24.238)

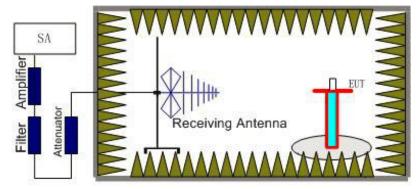
A.1.1.1 GSM Measurement Method

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

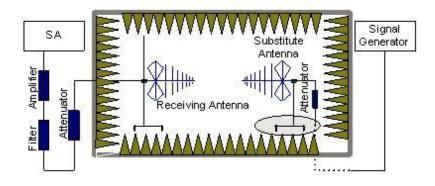
The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier that can be as high as 1910 MHz. The resolution bandwidth is set as outlined in Part 24.238 and Part 22.917. The spectrum is scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of PCS1900 and GSM850.

A.1.1.2 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.



- 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.



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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 (PMea) 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 (PMea) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

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4. The Path loss (Ppl) between the Signal Source with the Substitution Antenna and the Substitution Antenna Gain (Ga) should be recorded after test.

A amplifier should be connected in for the test.

The Path loss (Ppl) is the summation of the cable loss.

The measurement results are obtained as described below:

Power(EIRP)=PMea- PpI+ Ga

- 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

A.1.1.3 Measurement Limit

Part 24.238 and Part 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

A.1.1.4 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of the PCS1900 band (1850.2 MHz, 1880 MHz and 1909.8 MHz) and GSM850 band (824.2MHz, 836.6MHz, 848.8MHz). It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of the PCS1900 ,GSM850 into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this.

A.1.1.5 Measurement Results

Measurements results:

Frequency Channel	Frequency Range	Result
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30MHz~10GHz Ρ Low Ρ **GSM850** Middle 30MHz~10GHz Ρ High 30MHz~10GHz Low 30MHz~20GHz Ρ **GSM1900** Middle 30MHz~20GHz Ρ High 30MHz~20GHz Ρ

GSM850

GPRS Mode Channel 128

Final result:

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Peak ERP (dBm)	Limit (dBm)	Polarizatio n
2809.2857 14	-36.3	5.7	6.4	-35.6	-13	V
3575.7692 31	-49.62	6.4	7.8	-48.22	-13	Н
4494.2307 69	-48.62	7.3	8.7	-47.22	-13	V
5300.7692 31	-48.64	8	9.5	-47.14	-13	Н
5770.3846 15	-46.69	8.5	10.2	-44.99	-13	Н
6804.6153 85	-48.38	9.2	10.9	-46.68	-13	V

Note:

GPRS 850, CH128

Power(ERP)= Pmea-PcI+Ga=-36.3-5.7+6.4=-35.6dbm

This method Applicable to the following table.

GPRS Mode Channel 189

Final result:

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Peak ERP (dBm)	Limit (dBm)	Polarizatio n
2509.2857 14	-36.36	5.4	5.6	-36.16	-13	Н

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3573.4615 39	-50.04	6.4	7.8	-48.64	-13	Н
4525.3846 15	-49.29	7.1	8.9	-47.49	-13	٧
5468.0769 23	-49.84	8.1	9.8	-48.14	-13	Н
6569.2307 69	-48.29	9	10.6	-46.69	-13	V
7609.2307 69	-48.03	9.7	11.7	-46.03	-13	Н

GPRS Mode Channel 251

Final result:

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Peak ERP (dBm)	Limit (dBm)	Polarizatio n
2805	-36.4	5.7	6.3	-35.8	-13	V
3195	-49	6	6.8	-48.2	-13	V
3583.8461 54	-49.72	6.4	7.8	-48.32	-13	V
4586.5384 62	-49.5	7.4	8.8	-48.1	-13	V
5500.3846 15	-49.12	8.2	9.8	-47.52	-13	Н
6701.5384 62	-48.47	9.1	10.9	-46.67	-13	V

GSM1900

GPRS Mode Channel 512

Final result:

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Peak ERP (dBm)	Limit (dBm)	Polarizatio n
3574.8	-53.12	6.4	7.8	-51.72	-13	V
4551.6	-51.4	7.4	8.7	-50.1	-13	Н

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5729.4	-48.45	8.5	10.2	-46.75	-13	V
7110	-50.57	9.4	11.2	-48.77	-13	Н
9548.4	-45.11	10.7	12.7	-43.11	-13	Н
13368	-38.45	13.6	13.5	-38.55	-13	V

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GPRS Mode Channel 661

Final result:

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Peak ERP (dBm)	Limit (dBm)	Polarizatio n
3819.6	-51.3	4.7	7.9	-48.1	-13	Н
4452.6	-51.67	7.4	8.7	-50.37	-13	V
5730	-48.88	8.5	10.2	-47.18	-13	Н
7696.8	-49.6	9.7	11.7	-47.6	-13	Н
9548.4	-44.3	10.7	12.7	-42.3	-13	Н
13232.4	-38.92	13.6	13.5	-39.02	-13	V

GPRS Mode Channel 810

Final result:

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Peak ERP (dBm)	Limit (dBm)	Polarizatio n
3595.8	-51.6	6.4	7.8	-50.2	-13	V
4543.2	-51.98	7.4	8.7	-50.68	-13	V
5729.4	-49.33	8.5	10.2	-47.63	-13	Н
7707.6	-50.7	9.7	11.7	-48.7	-13	V

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9548.4	-46.89	10.7	12.7	-44.89	-13	Н
13269.6	-39.94	13.6	13.5	-40.04	-13	V

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Conclusion: PASS

Note: the EUT was displayed in several different direction, the worst cases were shown.

A.1.2. WCDMA Measurement Method

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 WCDMA Band V.

The procedure of radiated spurious emissions is the same like GSM.

A.1.1.2. Measurement Limit

Part 24.238 and Part 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

A.1.1.3. Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of the WCDMA Band V (826.4MHz, 836.6MHz and 846.6MHz). It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of the WCDMA Band V into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this.

A.1.1.4. Measurement Results Table

Frequency	Channel	Frequency Range	Result
WCDMA Bond II	Low	30MHz~20GHz	Р
WCDMA Band II	Middle	30MHz~20GHz	Р

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	High	30MHz~20GHz	Р
	Low	30MHz~20GHz	Р
WCDMA Band V	Middle	30MHz~20GHz	Р
	High	30MHz~20GHz	Р

WCDMA BAND II Mode Channel 9262

Final result:

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Peak ERP (dBm)	Limit (dBm)	Polarizatio n
3708.4	-59.03	6.6	7.9	-57.73	-13	Н
5562	-56.69	8.2	9.8	-55.09	-13	Н
7408.8	-45.53	9.7	11.5	-43.73	-13	V
9260.4	-52.74	10.6	12.7	-50.64	-13	Н
12600.9	-47.89	12.8	12.8	-47.89	-13	Н
15890.55	-41.69	15	13.2	-43.49	-13	Н

WCDMA BAND II Mode Channel 9400

Final result:

i mai resuit.						
Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Peak ERP (dBm)	Limit (dBm)	Polarizatio n
3758.4	-58.83	6.6	7.9	-57.53	-13	Н
5636.8	-53.46	8.2	9.8	-51.86	-13	Н
7515.2	-44.64	9.7	11.5	-42.84	-13	V
9396	-51.86	10.6	12.7	-49.76	-13	Н
11760.2	-47.77	12.8	12.7	-47.87	-13	V

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	15896.85	-40.98	15	13.2	-42.78	-13	V	
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WCDMA BAND II Mode Channel 9538

Final result:

i iliai resait.						
Frequenc y (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Peak ERP (dBm)	Limit (dBm)	Polarizatio n
3812	-55.78	6.7	8	-54.48	-13	Н
5724.8	-51.28	8.5	10.2	-49.58	-13	Н
7625.2	-40.89	9.7	11.7	-38.89	-13	Н
9539.6	-49.74	10.7	12.7	-47.74	-13	Н
12730.4	-47.8	12.8	12.8	-47.8	-13	Н
15242.7	-44.15	15	13.2	-45.95	-13	V

WCDMA BAND V Mode Channel 4132

Final result:

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Peak ERP (dBm)	Limit (dBm)	Polarizatio n
1856.4285 71	-55.71	4.6	4.6	-55.71	-13	Н
2528.8461 54	-52.75	5.4	5.6	-52.55	-13	V
3621.2	-60.95	6.5	7.8	-59.65	-13	V
4850	-59.8	7.6	9.3	-58.1	-13	V
6001.2	-59.8	8.6	10.2	-58.2	-13	V

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7330 -58.86 9.6 11.5 -56.96 -13 V

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WCDMA BAND V Mode Channel 4183

Final result:

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Peak ERP (dBm)	Limit (dBm)	Polarizatio n
1270.3571 43	-60.37	3.8	3	-61.17	-13	Н
1866.4285 71	-55.13	4.6	4.6	-55.13	-13	Н
2788.8461 54	-50.49	5.7	6.1	-50.09	-13	V
3809.6	-61.38	6.7	8.4	-59.68	-13	Н
4862.8	-60.86	7.6	9.4	-59.06	-13	V
6418.4	-59.64	8.9	10.5	-58.04	-13	V

WCDMA BAND V Mode Channel 4233

Final result:

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBd)	Peak ERP (dBm)	Limit (dBm)	Polarizatio n
1277.8571 43	-60.4	3.8	3	-61.2	-13	Н
1835	-56.63	4.6	4.6	-56.63	-13	Н
2854.2307 69	-50.62	5.7	6.1	-50.22	-13	Н
3660	-60.53	6.5	7.8	-59.23	-13	Н
5846.4	-59.3	8.4	10.2	-57.5	-13	Н
9781	-54.92	11	12.6	-53.32	-13	V

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Conclusion: PASS

Note: the EUT was displayed in several different direction, the worst cases were shown.

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ANNEX B. Deviations from Prescribed Test Methods

No deviation from Prescribed Test N	Methods.
***	*******End Of Report*******

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