



TEST REPORT

Report Number: C21T00009-RF01-V01

Applicant	Shanghai Sunmi Technology Co.,Ltd.
Product Name	Wireless data POS System
Model Name	T5930
Brand Name	SUNMI
FCC ID	2AH25V2

Industrial Internet Innovation Center (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in FCC Part 2/22/24, ANSI/TIA-603-E, ANSI C63.26, KDB 971168 D01.

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Issue Date

2021-04-14

Industrial Internet Innovation Center (Shanghai) Co., Ltd.

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11. Report No.: C21T00009-RF01-V01 is the replacement of Report No.: C21T00009-RF01-V00, and the previous Report No.: C21T00009-RF01-V00.

Test Laboratory:

Industrial Internet Innovation Center (Shanghai) Co., Ltd.

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Revision Version

Report Number	Revision	Date	Memo
C21T00009-RF01-V00	00	2021-04-07	Initial creation of test report
C21T00009-RF01-V01	01	2021-04-14	First modification of test report

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1. Test Laboratory

1.1. Testing Location

Company Name	Industrial Internet Innovation Center (Shanghai) Co., Ltd.
Address	Building 4, No. 766 Jingang Rd, Pudong, Shanghai, China
FCC Designation No.	CN1177

1.2. Testing Environment

Normal Temperature	15°C~35°C
Relative Humidity	30%RH~60%RH
Supply Voltage	120V/60Hz

1.3. Project Information

Project Leader	Lu Fang
Testing Start Date	2021-03-09
Testing End Date	2021-03-13

2. Client Information

2.1. Applicant Information

Company Name	Shanghai Sunmi Technology Co.,Ltd.
Address	Room 505, KIC Plaza, No.388 Song Hu Road, Yang Pu District, Shanghai, China
Telephone	+86 18721763396

2.2. Manufacturer Information

Company Name	Shanghai Sunmi Technology Co.,Ltd.
Address	Room 505, KIC Plaza, No.388 Song Hu Road, Yang Pu District, Shanghai, China
Telephone	+86 18721763396

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

3.1. About EUT

Product Name	Wireless data POS System
Model name	T5930
Supported Radio Technology and Bands	GSM850/GSM900/GSM1800/GSM1900 WCDMA Band I/ II/IV/V LTE Band 2/3/4/7/17/28 BT4.0, BLE 2.4G WLAN 802.11b/g/n 5G WLAN 802.11a/n GPS L1
Hardware Version	V3
Software Version	ZAP1522_769_DEV_dailybuild_20181205071714_userdebug_DCC
FCC ID	2AH25V2
Extreme Temperature	-15°C~55°C
Nominal Voltage	7.60V
Extreme High Voltage	8.70V
Extreme Low Voltage	6.80V

3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of Receipt
N05(Second supply)	861741048621921	V3	ZAP1522_769_DEV_dailybuild_20181205071714_userdebug_DCC	2021-01-29
N08(Main supply)	861741048621863	V3	ZAP1522_769_DEV_dailybuild_20181205071714_userdebug_DCC	2021-01-29

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

3.3. Internal Identification of AE used during the test

AE ID*	Description	Model	SN/Remark
AE1	RF cable	---	AE1

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

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 2	FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS	2018-10-01
FCC Part 22	PUBLIC MOBILE SERVICES	2018-10-01
FCC Part 24	PERSONAL COMMUNICATIONS SERVICES	2018-10-01
ANSI-TIA-603-E	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards	2016
ANSI C63.26	American National Standard of Procedures for Compliance Testing of Licensed Transmitters Used in Licensed Radio	2015
KDB 971168 D01	Measurement Guidance for Certification of Licensed Digital Transmitters	v03r01

5. Test Summary

5.1. Summary of Test Results

Measurement Items	Sub-clause	Verdict
Output Power	2.1046/22.913(a)/24.232(c)	P
Peak-to-Average Ratio	24.232(d)	P
99%Occupied Bandwidth	2.1049(h)(i)/ 22.917(b)	P
-26dB Emission Bandwidth	22.917(b)/§24.238(b)	P
Band Edge at antenna terminals	22.917(a)/24.238(a)	P
Frequency stability	2.1055/24.235	P
Conducted Spurious mission	2.1053/22.917(a)/24.238(a)	P
Emission Limit	2.1051/22.917/24.238/22.913/24.232	P

Note: please refer to Annex C in this test report for the detailed test results.

The following terms are used in the above table.

P	Pass, the EUT complies with the essential requirements in the standard.
NM	Not measure, the test was not measured by 3IN.
NA	Not applicable, the test was not applicable.
F	Fail, the EUT does not comply with the essential requirements in the standard.

5.2. Statements

T5930, manufactured by Shanghai Sunmi Technology Co.,Ltd. is a variant product for testing.

This project is a variant project based on the original report I18D00236-SRD04-2G&3G, we tested the worst mode of the original report, and the test data of the worst mode was recorded in the report.

Industrial Internet Innovation Center (Shanghai) Co., Ltd. only performed test cases which identified with Pass/Fail/Inc result in section 5.1.

Industrial Internet Innovation Center (Shanghai) Co., Ltd. has verified that the compliance of the tested device specified in section 3 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 4 of this test report.

6. Measurement Results

6.1. RADIATED

6.1.2 EMISSION LIMIT (§2.1051/§22.917§24.238)

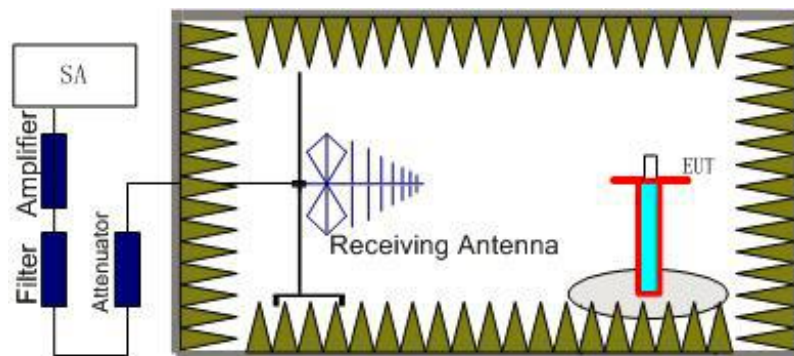
6.1.2.1 GSM Measurement Method

The measurement 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, 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.

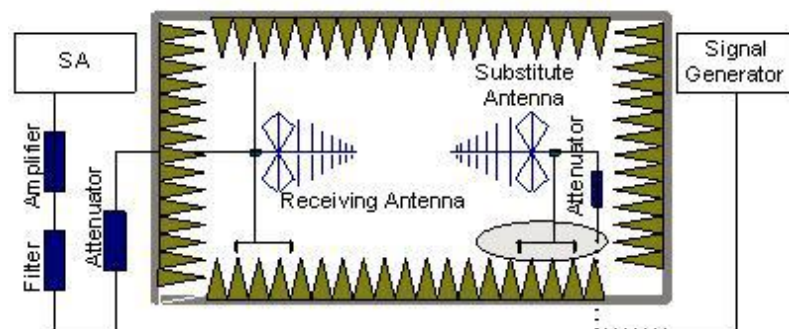
6.1.2.2 The procedure of radiated spurious emissions is as follows:

1. Below 1 GHz, EUT was placed on a 0.8 meter high non-conductive stand at a 3 meter test distance from the receive antenna. Above 1 GHz, EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. 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 10th harmonic 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.



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 (P_{Mea}) 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 (P_r). The power of signal source (P_{Mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. The Path loss (P_{pl}) between the Signal Source with the Substitution Antenna and the Substitution Antenna Gain (G_a) should be recorded after test.

An amplifier should be connected in for the test.

The Path loss (P_{pl}) is the summation of the cable loss .

The measurement results are obtained as described below:

$$\text{Power(EIRP)} = P_{Mea} - P_{pl} + G_a$$

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, $ERP = EIRP - 2.15\text{dBi}$

6.1.2.3 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.

6.1.2.4 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.

6.8.2.5 Measurement Results

Measurements results:

Frequency	Channel	Frequency Range	Result
GSM850	Low	30MHz~10GHz	P
	Middle	30MHz~10GHz	P
	High	30MHz~10GHz	P



Main supply

GPRS 850 CH128



Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBi)	Peak EIRP (dBm)	Limit (dBm)	Polarization
1645.7	-31.83	4.3	2.9	-33.23	-13	H
2471.8	-35.41	5.3	3.7	-37.01	-13	H
3296.5	-41.19	6.2	4.7	-42.69	-13	V
4118.1	-49.55	7.0	7.7	-48.85	-13	H
4945.4	-48.24	7.7	9.0	-46.94	-13	H
5769.2	-47.11	8.5	10.5	-45.11	-13	H

GPRS CH189

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBi)	Peak EIRP (dBm)	Limit (dBm)	Polarization
1671.4	-26.57	4.3	2.9	-27.97	-13	H
2511.4	-36.78	5.4	3.7	-38.48	-13	V
3346.2	-46.37	6.2	4.7	-47.87	-13	V
4183.8	-46.73	7.0	7.7	-46.03	-13	V
5022.7	-48.11	7.8	9.0	-46.91	-13	H
5856.9	-49.59	8.4	10.5	-47.49	-13	V

GPRS 850 CH251

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBi)	Peak EIRP (dBm)	Limit (dBm)	Polarization
1696.1	-31.47	4.4	2.9	-32.97	-13	V
2547.9	-35.67	5.4	3.7	-37.37	-13	H
3395.8	-45.99	6.3	4.7	-47.59	-13	H
4243.8	-45.95	7.1	7.7	-45.35	-13	V
5094.2	-45.44	7.9	9.0	-44.34	-13	V
5942.3	-47.06	8.5	10.4	-45.16	-13	H

EGPRS 850 CH128

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBi)	Peak EIRP (dBm)	Limit (dBm)	Polarization
1650.0	-29.62	4.3	2.9	-31.02	-13	H
2471.8	-34.28	5.3	3.7	-35.88	-13	H
3296.5	-37.77	6.2	4.7	-39.27	-13	H
4121.5	-47.29	7.0	7.7	-46.59	-13	V
4948.8	-49.03	7.7	9.0	-47.73	-13	V
5770.4	-47.93	8.5	10.5	-45.93	-13	H

EGPRS 850 CH189

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBi)	Peak EIRP (dBm)	Limit (dBm)	Polarization
1672.5	-24.9	4.3	2.9	-26.3	-13	H
2508.2	-33.62	5.4	3.7	-35.32	-13	H
3345.0	-43.5	6.2	4.7	-45	-13	H
4182.7	-46.23	7.0	7.7	-45.53	-13	V
5020.4	-46.01	7.8	9.0	-44.81	-13	H
5888.1	-49.75	8.5	10.4	-47.85	-13	H

EGPRS 850 CH251

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBi)	Peak EIRP (dBm)	Limit (dBm)	Polarization
1697.1	-30.87	4.4	2.9	-32.37	-13	H
2546.8	-30.82	5.4	3.7	-32.52	-13	H
3394.6	-45.79	6.3	4.7	-47.39	-13	H
4243.8	-46.71	7.1	7.7	-46.11	-13	V
5094.2	-44.57	7.9	9.0	-43.47	-13	V
5944.6	-48.89	8.5	10.4	-46.99	-13	H

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



Second supply
GPRS 850 CH128

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBi)	Peak EIRP (dBm)	Limit (dBm)	Polarization
1648.9	-39.24	4.3	2.9	-40.64	-13	H
2471.8	-36.07	5.3	3.7	-37.67	-13	V
3296.5	-46.03	6.2	4.7	-47.53	-13	V
4121.5	-47.44	7.0	7.7	-46.74	-13	H
4945.4	-47.83	7.7	9.0	-46.53	-13	V
5770.4	-51.96	8.5	10.5	-49.96	-13	V

GPRS CH189

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBi)	Peak EIRP (dBm)	Limit (dBm)	Polarization
1673.6	-36.92	4.3	2.9	-38.32	-13	H
2509.3	-36.09	5.4	3.7	-37.79	-13	H
3347.3	-44.84	6.2	4.7	-46.34	-13	V
4183.8	-49.26	7.0	7.7	-48.56	-13	H
5021.5	-48.04	7.8	9.0	-46.84	-13	H
5852.3	-51.46	8.4	10.5	-49.36	-13	V

GPRS 850 CH251

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBi)	Peak EIRP (dBm)	Limit (dBm)	Polarization
1696.1	-41.43	4.4	2.9	-42.93	-13	H
2545.7	-34.74	5.4	3.7	-36.44	-13	V
3394.6	-46.33	6.3	4.7	-47.93	-13	H
4245.0	-46.41	7.1	7.7	-45.81	-13	H
5093.1	-43.68	7.9	9.0	-42.58	-13	H
6050.8	-49.1	8.6	10.4	-47.3	-13	V

EGPRS 850 CH128

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBi)	Peak EIRP (dBm)	Limit (dBm)	Polarization
1648.9	-36.55	4.3	2.9	-37.95	-13	H
2472.9	-34.4	5.3	3.7	-36	-13	H
3295.4	-46.09	6.2	4.7	-47.59	-13	H
4120.4	-45.29	7.0	7.7	-44.59	-13	H
4945.4	-45.62	7.7	9.0	-44.32	-13	H
5907.7	-49.46	8.5	10.4	-47.56	-13	V

EGPRS 850 CH189

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBi)	Peak EIRP (dBm)	Limit (dBm)	Polarization
1672.5	-40.52	4.3	2.9	-41.92	-13	H
2509.3	-35.92	5.4	3.7	-37.62	-13	V
3346.2	-44.33	6.2	4.7	-45.83	-13	V
4183.8	-48.9	7.0	7.7	-48.2	-13	H
5020.4	-45.04	7.8	9.0	-43.84	-13	H
5851.2	-51.22	8.4	10.5	-49.12	-13	V

EGPRS 850 CH251

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBi)	Peak EIRP (dBm)	Limit (dBm)	Polarization
1697.1	-39.2	4.4	2.9	-40.7	-13	H
2545.7	-32.69	5.4	3.7	-34.39	-13	H
3394.6	-46.34	6.3	4.7	-47.94	-13	H
4245.0	-46.11	7.1	7.7	-45.51	-13	H
5091.9	-46.61	7.9	9.0	-45.51	-13	H
5978.1	-48.2	8.6	10.4	-46.4	-13	H

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

6.1.3 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.

6.1.3.1 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.

6.1.3.2 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.

6.1.3.3 Measurement Results Table

Frequency	Channel	Frequency Range	Result
WCDMA Band V	Low	30MHz~20GHz	P
	Middle	30MHz~20GHz	P
	High	30MHz~20GHz	P



Main supply

WCDMA BAND V Mode Channel 4132

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBi)	Peak EIRP (dBm)	Limit (dBm)	Polarization
1651.4	-58.26	4.3	2.9	-59.66	-13	H
2430.4	-51.62	5.3	3.7	-53.22	-13	V
3302.4	-62.9	6.2	4.7	-64.4	-13	H
4144.4	-60.62	7.0	7.7	-59.92	-13	H
4960.0	-58.53	7.7	9.0	-57.23	-13	V
5782.0	-62.93	8.4	10.5	-60.83	-13	V

WCDMA BAND V Mode Channel 4183

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBi)	Peak EIRP (dBm)	Limit (dBm)	Polarization
1671.1	-58.82	4.3	2.9	-60.22	-13	H
2481.9	-51.43	5.3	3.7	-53.03	-13	V
3178.0	-61.98	6.1	4.7	-63.38	-13	V
3982.4	-60.55	6.9	7.7	-59.75	-13	H
4479.2	-59.48	7.3	7.3	-59.48	-13	H
5494.8	-60.84	8.2	9.5	-59.54	-13	H

WCDMA BAND V Mode Channel 4233

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBi)	Peak EIRP (dBm)	Limit (dBm)	Polarization
1694.6	-58.32	4.4	2.9	-59.82	-13	H
2541.9	-50.99	5.4	3.7	-52.69	-13	V
3386.4	-62.88	6.3	4.7	-64.48	-13	V
4228.0	-60.25	7.1	7.7	-59.65	-13	V
5090.4	-59.14	7.9	9.0	-58.04	-13	H
5931.2	-60.19	8.5	10.4	-58.29	-13	H

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



Second supply

WCDMA BAND V Mode Channel 4132

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBi)	Peak EIRP (dBm)	Limit (dBm)	Polarization
1619.6	-59.34	4.3	3.4	-60.24	-13	H
2430.0	-51.63	5.3	3.7	-53.23	-13	V
3242.0	-61.58	6.1	4.7	-62.98	-13	V
4052.4	-62.04	6.9	7.7	-61.24	-13	H
4866.8	-57.36	7.6	7.9	-57.06	-13	V
5670.4	-61.44	8.3	10.5	-59.24	-13	H

WCDMA BAND V Mode Channel 4183

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBi)	Peak EIRP (dBm)	Limit (dBm)	Polarization
1703.6	-59.15	4.4	2.9	-60.65	-13	V
2560.4	-49.26	5.4	3.7	-50.96	-13	H
3407.6	-62.81	6.3	4.7	-64.41	-13	H
4269.2	-61.5	7.1	7.7	-60.9	-13	V
5123.2	-59.92	7.9	9.0	-58.82	-13	V
5962.8	-60.99	8.5	10.4	-59.09	-13	V

WCDMA BAND V Mode Channel 4233

Frequency (MHz)	PMea (dBm)	Pcl (dBm)	Ga (dBi)	Peak EIRP (dBm)	Limit (dBm)	Polarization
1682.1	-58.86	4.4	2.9	-60.36	-13	V
2540.8	-50.46	5.4	3.7	-52.16	-13	H
3386.0	-62.93	6.3	4.7	-64.53	-13	V
4239.2	-61.32	7.1	7.7	-60.72	-13	H
5087.2	-58.77	7.9	9.0	-57.67	-13	V
5968.4	-60.2	8.5	10.4	-58.3	-13	H

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

7. Test Equipment List

Radiated Emission Test System

Item	Equipment Name	Type	Serial Number	Manufacturer	Cal. Date	Cal. Interval
1	Universal Radio Communication Tester	CMW500	104178	R&S	2020-05-10	1 year
2	Test Receiver	ESU40	100307	R&S	2020-05-10	1 year
3	TRILOG Antenna	VULB9163	VULB9163-515	Schwarzbeck	2020-02-28	2 years
4	Double Ridged Guide Antenna	ETS-3117	135890	ETS	2020-02-28	2 years
5	2-Line V-Network	ENV216	101380	R&S	2020-05-10	1 year
6	RF Signal Generator	SMF100A	102314	R&S	2020-05-10	1 year
7	Amplifier	SCU08	10146	R&S	2020-05-10	1 year
8	EMI Test Software	EMC32 V9.15.00	NA	R&S	NA	NA

Anechoic chamber

Fully anechoic chamber by ETS

Annex A: Measurement Uncertainty

Measurement uncertainty for all the testing in this report are within the limit specified in 3IN documents. The detailed measurement uncertainty is defined in 3IN documents.

Measurement Items	Range	Confidence Level	Calculated Uncertainty
Peak Output Power-Conducted	2412MHz-2462MHz	95%	0.544dB
Peak Power Spectral Density	2412MHz-2462MHz	95%	0.502dB
Occupied 6dB Bandwidth	2412MHz-2462MHz	95%	69.26kHz
Band Edges-Conducted	2412MHz-2462MHz	95%	0.544dB
Conducted Emission	30MHz-2GHz	95%	0.90dB
Conducted Emission	2GHz-3.6GHz	95%	0.88dB
Conducted Emission	3.6GHz-8GHz	95%	0.96dB
Conducted Emission	8GHz-20GHz	95%	0.94dB
Conducted Emission	20GHz-22GHz	95%	0.88dB
Conducted Emission	22GHz-26GHz	95%	0.86dB
Transmitter Spurious Emission-Radiated	9KHz-30MHz	95%	5.66dB
Transmitter Spurious Emission-Radiated	30MHz-1000MHz	95%	4.98dB
Transmitter Spurious Emission-Radiated	1000MHz -18000MHz	95%	5.06dB
Transmitter Spurious Emission-Radiated	18000MHz -40000MHz	95%	5.20dB
AC Power line Conducted Emission	0.15MHz-30MHz	95%	3.66 dB

Annex B: Accreditation Certificate



Accredited Laboratory

A2LA has accredited

Industrial Internet Innovation Center (Shanghai) Co., Ltd.

Shanghai, People's Republic of China

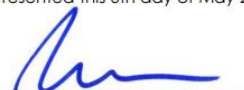
for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the requirements of any additional program requirements in the «field» field. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 6th day of May 2019.



Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 3682.01
Valid to April 30, 2021
Revised February 17, 2021

For the tests to which this accreditation applies, please refer to the laboratory's Electrical «field» Scope of Accreditation.

*****END OF REPORT*****