



# TEST REPORT

**REPORT NUMBER: 25B02W000008-007**

**ON**

**Type of Equipment:** Smart POS System

**Type of Designation:** T6F10

**Brand Name:** SUNMI

**Manufacturer:** Shanghai Sunmi Technology Co.,Ltd.

**FCC ID:** 2AH25T6F10

**ACCORDING TO**

FCC Part 15E, ANSI C63.10-2013

**Chongqing Academy of Information and Communications Technology**

*Month date, year*

*Jun.10th, 2025*

*Signature*

*Zhou Jin*

*Director*

**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 Chongqing Academy of Information and Communications Technology.



**Report No.:25B02W000008-007**

**Revision Version**

<b>Report Number</b>	<b>Revision</b>	<b>Date</b>
25B02W000008-007	00	2025-06-10

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## CONTENTS

1. Test Laboratory .....	5
1.1. Testing Location .....	5
1.2. Testing Environment .....	5
1.3. Project data .....	5
1.4. Signature .....	5
2. Client Information .....	6
2.1. Applicant Information .....	6
2.2. Manufacturer Information .....	6
3. Equipment under Test (EUT) and Ancillary Equipment (AE) .....	7
3.1. About EUT .....	7
3.2. Internal Identification of EUT used during the test .....	7
3.3. Outline of Equipment under Test .....	7
3.4. Internal Identification of AE used during the test .....	8
3.5. EUT Test RF Configuration .....	8
4. Reference Documents .....	9
4.1. Documents supplied by applicant .....	9
4.2. Reference Documents for testing .....	9
5. Test Equipments Utilized .....	10
5.1. RSE and CE Test System .....	10
5.2. Climate Chamber .....	11
5.3. Anechoic chamber Vibration table .....	11
5.4. Test software .....	11
6. Test Results .....	12
6.1. Summary of Test Results .....	12
6.2. Band Edges Compliance .....	13
6.3. Transmitter Spurious Emission .....	18
6.4. AC Powerline Conducted Emission .....	25

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**Report No.:25B02W000008-007**

ANNEX A EUT Photos .....	28
ANNEX B Deviations from Prescribed Test Methods .....	29

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## 1. Test Laboratory

### 1.1. Testing Location

Name:	Chongqing Academy of Information and Communications Technology
Designation Number:	CN1239
Address:	No.19 EastRoad,Xiantao Big-data Valley,Yubei District,Chongqing,People's Republic of China
Postal Code:	401336
Telephone:	0086-23-88069965
Fax:	0086-23-88608777

### 1.2. Testing Environment

Normal Temperature:	15-35°C
Relative Humidity:	30-60%

### 1.3. Project data

Testing Start Date:	2025-04-16
Testing End Date:	2025-05-09

### 1.4. Signature

2025-06-10

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**Li Runhao**  
(Prepared this test report)

Date

2025-06-10

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**Xiao Yu**  
(Reviewed this test report)

Date

2025-06-10

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**Zhou Jin**  
Director of the laboratory  
(Approved this test report)

Date

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## 2. Client Information

### 2.1. Applicant Information

Company Name:	Shanghai Sunmi Technology Co.,Ltd.
Address /Post:	Room 505, No.388,Song Hu Road, Yang Pu District, Shanghai, China
City:	Shanghai
Country:	China
Telephone:	18826519551
Fax:	N/A
Email:	chenxuanfei@sunmi.com
Contact Person:	chenxuanfei

### 2.2. Manufacturer Information

Company Name:	Shanghai Sunmi Technology Co.,Ltd.
Address /Post:	Room 505, No.388,Song Hu Road, Yang Pu District, Shanghai, China
City:	Shanghai
Country:	China
Telephone:	18826519551
Fax:	N/A
Email:	chenxuanfei@sunmi.com
Contact Person:	chenxuanfei

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

#### 3.1. About EUT

EUT Description	Smart POS System
Model name	T6F10
Brand name	SUNMI
WLAN Frequency Band	Wi-Fi 5G U-NII-1/ U-NII-2a/U-NII-2c/U-NII-3:802.11a/n/ac
Type of WLAN modulation	OFDM
Extreme Temperature	-10/+50°C
Nominal Test Voltage	7.7V
Extreme Test High Voltage	8.8V
Extreme Test Low Voltage	6.0V

Note1: Photographs of EUT are shown in ANNEX A of this test report.

Note2: High and low voltage values in extreme condition test are given by manufacturer.

Note3: The Extreme Temperature is provided by the manufacturer and has not been verified by the laboratory.

#### 3.2. Internal Identification of EUT used during the test

EUT ID*	SN or IMEI	HW Version	SW Version	Date of receipt
25B02W000008#S1	866413070768997/866413070770860	V1.0(LA+EU)	V3.0.0	2025-04-16

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

No.	Item(s)	Data
1	Antenna gain of EUT	2.6dBi

Note: The data of antenna gain is provided by the Antenna specification may affect the validity of the test results in this report, and the impact and consequences of this shall be undertaken by the customer.

#### 3.3. Outline of Equipment under Test

Technology	Band	UL Freq.(MHz)	DL Freq.(MHz)
WLAN	5G	UNII 3: 5725MHz-5850MHz	

Test frequency list:

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**UNII-3:**

BW_20M	Channel	149	153	157	161	165
	Freq. (MHz)	5745	5765	5785	5805	5825
BW_40M	Channel	151		159		/
	Freq. (MHz)	5755		5795		
BW_80M	Channel	155				
	Freq. (MHz)	5775				

Note: “/” Represents empty

Note: This report is for WLAN UNII-3 only.

**3.4. Internal Identification of AE used during the test**

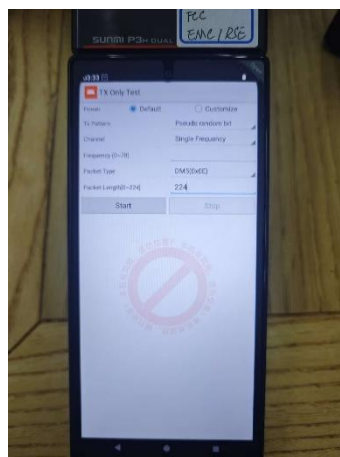
AE ID*	Description	Note
A1	Adapter	Model: TPA-23A050200UU01 INPUT: 100-240V ~ 50/60Hz 0.3A OUTPUT: 5.0V 2.0A
C1	USB Cable	N/A
B1	Battery	Model: FHPS 7.74V, 3000mAh

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

dB\*: is provided customer.

**3.5. EUT Test RF Configuration**

EUT uses engineering mode to control RF emissions, changing power levels, channels, rates, and HT.


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## 4. Reference Documents

### 4.1. Documents supplied by applicant

PICS/PIXIT, referring to Annex B for detailed information, is supplied by the client or manufacturer, which is the basis of testing.

### 4.2. Reference Documents for testing

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

Reference	Title	Version
FCC Part 15E	FCC CFR 47, Part 15, Subpart E: Unlicensed National Information Infrastructure Devices	--
ANSI 63.10	Methods Of Measurement Of Radio-Noise Emissions From Low-Voltage Electrical And Electronic Equipment In The Range Of 9 Khz To 40 Ghz	2013
KDB 789033 D02 General UNII Test Procedures New Rules v02r01	Guidelines For Compliance Testing Of Unlicensed National Information Infrastructure (U-Nii) Devices (Part 15, Subpart E)	--
Note: KDB 789033 D02 General UNII Test Procedures New Rules v02r01 is not A2LA certified.		

## 5. Test Equipments Utilized

### 5.1. RSE and CE Test System

No.	Equipment	Model	SN	HW Version	SW Version	Manufacturer	Cal. Interval	Cal.Due Date
1	EMI Test Receiver	ESU40	100307	--	--	R&S	1 Year	2025-06-28
2	TRILOG Broadband Antenna	VULB9163	9163-586	--	--	Schwarzbeck	2 Years	2026-10-28
3	Horn antenna	9120D	1083	--	--	Schwarzbeck	2 Years	2026-11-08
4	Horn antenna	DATE 1152	LM7127	--	--	ETS	2 Years	2026-09-30
5	Horn antenna	DATE 1012	LM5945	--	--	ETS	2 Years	2026-09-30
6	Loop Antenna	6502	00213256	--	--	ETS	1 Year	2026-09-04
7	Amplifier1	SCU-08F1	8320027	--	--	R&S	--	--
8	Amplifier2	SCU-18F	180093	--	--	R&S	--	--
9	2-Line V-Network	ENV216	102368	--	--	R&S	1 Year	2025-05-16
10	Test Receiver	ESR 3	101382	03	3.48 SP2	R&S	1 Year	2025-06-28
11	Test Receiver	ESW 26	101382	00	1.50 SP1	R&S	1 Year	2025-06-28

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**5.2. Climate Chamber**

No.	Name	Type	SN	Manufacture	Cal. Interval	Cal.Due Date
--	--	--	--	--	--	--

**5.3. Anechoic chamber Vibration table**

No.	Name	Type	SN	Manufacture	Cal. Interval	Cal.Due Date
1	Fully-Anechoic Chamber	FAC5	--	TDK	3 Years	2027-11-04
2	Anechoic Chamber	SAC 10	--	TDK	3 Years	2027-11-05

**5.4. Test software**

No.	Name	version	SN	Manufacture
1	EMC32 (Transmitter Spurious Emission-Radiated Above 1GHz)	V9.26.01	--	R&S
2	EMC32 (Transmitter Spurious Emission-Radiated Below 1GHz)	V 10.20.01	--	R&S
3	EMC32 (AC Powerline Conducted Emission)	V 10.40.10	--	R&S

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## 6. Test Results

### 6.1. Summary of Test Results

A brief summary of the tests carried out is shown as following.

FCC Rules	Name of Test	Result
15.407(a)	Duty cycle	Pass <sup>Note3</sup>
15.407(a)	Maximum Output Power	Pass <sup>Note3</sup>
15.407(a)	Power Spectral Density	Pass <sup>Note3</sup>
15.407(e)	26dB Occupied Bandwidth	Pass <sup>Note3</sup>
2.1049	99% Occupied Bandwidth	Pass <sup>Note3</sup>
15.407(b)	Band edge compliance	Pass
15.407/15.205/15.209	Transmitter Spurious Emission - Radiated	Pass
15.207	AC Powerline Conducted Emission	Pass
15.407(g)	Frequency Stability	N/A
15.203/15.247(c)	Antenna requirement	Pass <sup>Note 2</sup>

**NOTE 1:**

The T6F10, manufactured by Shanghai Sunmi Technology Co.,Ltd. is a variant product for testing.

This project is a variant project based on the original report 24T04I300102-027 with below changes:

-Add secondary screen at the top of the EUT (NFC antenna will change at the same time).

-Add secondary battery.

According to the Product Change Description, we tested the worst mode of radiated spurious emission in the original report, and the test data of the radiated spurious emission was recorded in the report.

**NOTE 2:**

5.8G RLAN used an Internal antenna with max Gain 2.6 dBi that complied with 15.203 Requirements.

**NOTE 3:**

The test verdict of this item come from the original report.

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## 6.2. Band Edges Compliance

<b>Specifications:</b>	FCC 47 Part 15.407(b)
<b>DUT Serial Number:</b>	25B02W000008#S1
<b>Test conditions:</b>	Ambient Temperature:15-35℃ Relative Humidity:30-60%
<b>Test Results:</b>	Pass

### Limit Level Construction:

#### Above 1G, non-restricted band

Standard	Limit
15.407(b)	All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

#### Above 1G, Restricted band

Standard	Limit	
15.209	Peak	74dBμV/m
	Average	54dBμV/m

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} + 20 \log(d[\text{m}]) - 104.7$$

$$\text{E[dB}\mu\text{V/m]} = \text{EIRP[dBm]} - 20 \log(d[\text{m}]) + 104.7$$

$$\text{E[dB}\mu\text{V/m]} = \text{EIRP[dBm]} + 95.2 = 68.2, \text{ for } d = 3\text{m}$$

### Measurement Uncertainty:

Measurement Uncertainty	4.84dB(K=2)
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### Test Procedure:

The measurement is made according to KDB 789033.

Marker-Delta Method: The marker-delta method, as described in ANSI C63.10, can be used to perform measurements of the radiated unwanted emissions level of emissions provided that the 99% occupied

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bandwidth of the fundamental is within 2 MHz of the authorized band-edge.

**Procedure for peak unwanted emissions measurements above 1000 MHz**

The procedure for peak unwanted emissions measurements above 1000 MHz is as follows:

a) Follow the requirements in 12.7.4.

b) Peak emission levels are measured by setting the instrument as follows:

1) RBW = 1 MHz.

2) VBW  $\geq [3 \times \text{RBW}]$ .

3) Detector = peak.

4) Sweep time = auto.

5) Trace mode = max hold.

6) Allow sweeps to continue until the trace stabilizes. Note that if the transmission is not continuous, then the time required for the trace to stabilize will increase by a factor of approximately  $1 / D$ , where  $D$  is the duty cycle. For example, at 50% duty cycle, the measurement time will increase by a factor of two, relative to measurement time for continuous transmission.

**Procedures for average unwanted emissions measurements above 1000 MHz**

a) RBW = 1 MHz.

b) Video bandwidth:

1) If the EUT is configured to transmit with  $D \geq 98\%$ , then set  $\text{VBW} \leq \text{RBW} / 100$  (i.e., 10 kHz), but not less than 10 Hz.

2) If the EUT  $D$  is  $< 98\%$ , then set  $\text{VBW} \geq 1 / T$ , where  $T$  is defined in item a1) of 12.2.

c) Video bandwidth mode or display mode:

1) The instrument shall be set with video filtering applied in the power domain. Typically, this requires setting the detector mode to RMS (power averaging) and setting the average-VBW type to power (rms).

2) As an alternative, the instrument may be set to linear detector mode. Video filtering shall be applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode to accomplish this. Others have a setting for average-VBW type, which can be set to “voltage” regardless of the display mode.

d) Detector = peak.

e) Sweep time = auto.

f) Trace mode = max hold.

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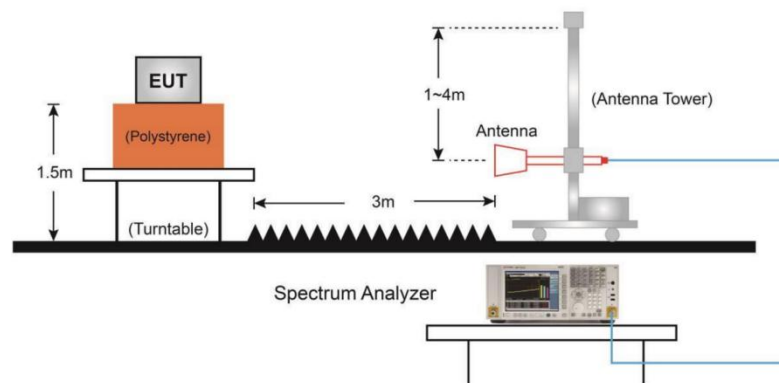
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g) Allow max hold to run for at least 50 traces if the transmitted signal is continuous or has at least 98% duty cycle. For lower duty cycles, increase the minimum number of traces by a factor of  $1/x$ , where  $D$  is the duty cycle. For example, use at least 200 traces if the duty cycle is 25%. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 50 traces should be averaged.)

The measurement was applied in a fully anechoic chamber. While testing for spurious emission higher than 1GHz, if applied, the pre-amplifier would be equipped just at the output terminal of the antenna. Tabletop devices shall be placed on a nonconducting platform with nominal top surface dimensions 1 m by 1.5 m. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turntable rotated 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on an antenna mast. During the tests, the antenna height varied from 1m to 4m and the EUT azimuth were varied from 0° to 360° in order to identify the maximum level of emissions from the EUT. In making any tests involving handheld, body-worn, or ceiling-mounted equipment, it is essential to recognize that the measured levels may be dependent on the orientation (attitude) of the three orthogonal axes of the EUT. Thus, exploratory tests as specified in 8.3.1 shall be carried out for various axes orientations to determine the attitude having maximum or near-maximum emission level. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

## Test Setup

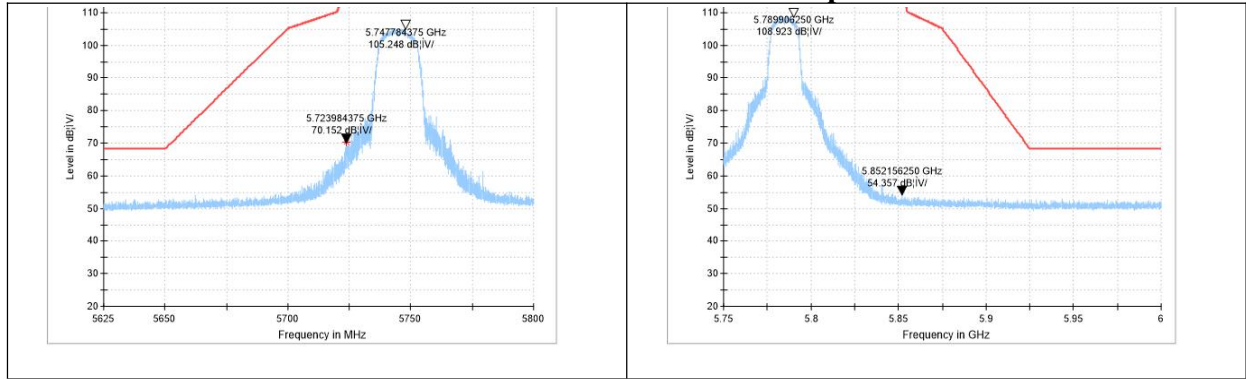


## Measurement Result:

BANEDGE-11A-CH149-PK	BANEDGE-11A-CH157-PK
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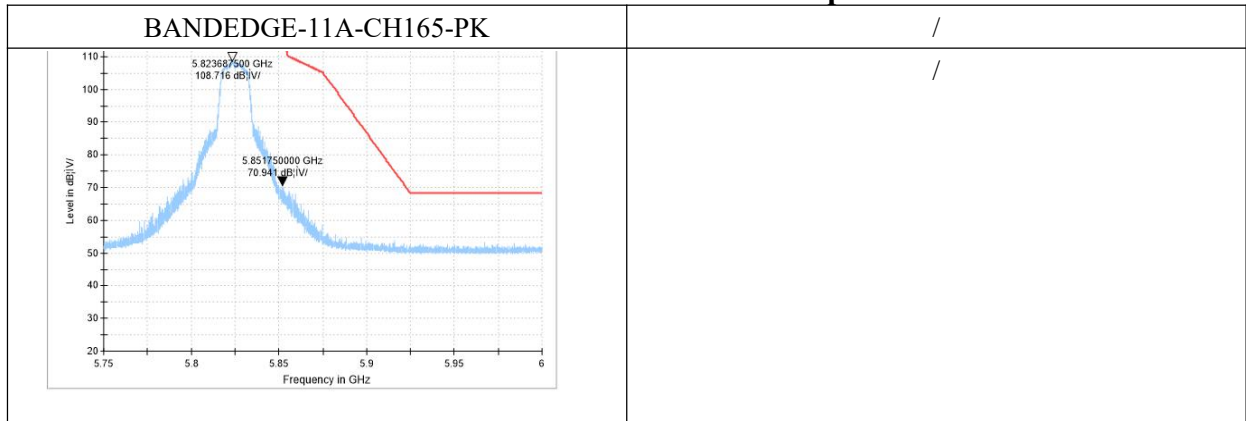
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Note:

1. Only data in worst mode is provided.
2. Horizontal and vertical polarity is all have been tested, the result of them is synthesized in the above data diagram.

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### 6.3. Transmitter Spurious Emission

<b>Specifications:</b>	FCC 47 Part 15.407,15.205,15.209
<b>DUT Serial Number:</b>	25B02W000008#S1
<b>Test conditions:</b>	Ambient Temperature:15-35℃ Relative Humidity:30-60%
<b>Test Results:</b>	Pass

#### Limit Level Construction:

##### Below 1G:

Frequency of emission (MHz)	Field strength(dBμV/m)	Measurement distance(m)
0.009-0.490	129-94	3
0.490-1.705	74-63	3
1.705-30	70	3
30-88	40.0	3
88-216	43.5	3
216-960	46.0	3
Above 960	54.0	3

Note: for frequency range below 960MHz, the limit in 15.209 is defined in 10m test distance. The limit used above is calculated from 10m to 3m

##### Above 1G, non-restricted band:

Standard	Limit
15.407(b)	All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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**Above 1G, Restricted band:**

Standard	Limit	
15.209	Peak	74dB $\mu$ V/m
	Average	54dB $\mu$ V/m

$$\text{EIRP[dBm]} = \text{E[dB}\mu\text{V/m]} + 20 \log(d[\text{m}]) - 104.7$$

$$\text{E[dB}\mu\text{V/m]} = \text{EIRP[dBm]} - 20 \log(d[\text{m}]) + 104.7$$

$$\text{E[dB}\mu\text{V/m]} = \text{EIRP[dBm]} + 95.2 = 68.2, \text{ for } d = 3\text{m}$$

**Measurement Uncertainty:**

Measurement Uncertainty	30MHz-150MHz 3.38 dB (k=2) 150MHz-1000MHz 4.09dB (k=2) 1000MHz-6000MHz 4.84 dB (k=2) 6000MHz-18000MHz 4.52 dB (k=2) 18000MHz-26500MHz 6.19 dB (k=2) 26500MHz-40000MHz 6.03 dB (k=2)
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**Test procedures**

The measurement is made according to KDB 789033

Set the spectrum analyzer in the following:

**Procedure for Unwanted Emissions Measurements below 1000 MHz:**

- a) Follow the requirements in II.G.3. "General Requirements for Unwanted Emissions Measurements."
- b) Compliance shall be demonstrated using CISPR quasi-peak detection; however, peak detection is permitted as an alternative to quasi-peak detection.

Detector: Peak and Quasi-Peak

RBW=100kHz / VBW=300kHz / Sweep=AUTO

**Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz:**

- a) Follow the requirements in II.G.3, "General Requirements for Unwanted Emissions Measurements."
- b) Maximum emission levels are measured by setting the analyzer as follows:
  - (i) RBW = 1 MHz.
  - (ii) VBW  $\geq$  3 MHz.
  - (iii) Detector = Peak.
  - (iv) Sweep time = auto.
  - (v) Trace mode = max hold.

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(vi) Allow sweeps to continue until the trace stabilizes. Note that if the transmission is not continuous, the time required for the trace to stabilize will increase by a factor of approximately  $1/x$ , where  $x$  is the duty cycle. For example, at 50% duty cycle, the measurement time will increase by a factor of two relative to measurement time for continuous transmission.

**Procedures for Average Unwanted Emissions Measurements above 1000 MHz:**

a) Follow the requirements in section II.G.3., “General Requirements for Unwanted Emissions Measurements.”

b) Average emission levels shall be measured using one of the following two methods.

c) Method AD (Average Detection): Primary method

(i) RBW = 1 MHz.

(ii) VBW  $\geq$  3 MHz.

(iii) Detector = power averaging (rms), if  $\text{span}/(\# \text{ of points in sweep}) \leq \text{RBW}/2$ . Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, the detector mode shall be set to peak.

(iv) Averaging type = power averaging (rms)

As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.

(v) Sweep time = auto.

(vi) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, the number of traces shall be increased by a factor of  $1/x$ , where  $x$  is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—rather than turning on and off with the transmit cycle, at least 100 traces shall be averaged.)

(vii) If tests are performed with the EUT transmitting at a duty cycle less than 98%, a correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

If power averaging (rms) mode was used in step (iv) above, the correction factor is  $10 \log (1/x)$ , where  $x$  is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB must be added to the measured emission levels.

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**Report No.:25B02W000008-007**

If linear voltage averaging mode was used in step (iv) above, the correction factor is  $20 \log (1/x)$ , where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB must be added to the measured emission levels.

If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning on and off with the transmit cycle, no duty cycle correction is required for that emission.

Portable, small, lightweight, or modular devices that may be handheld, worn on the body, or placed on a table during operation shall be positioned on a non-conducting platform, the top of which is 80 cm above the reference ground plane. The preferred area occupied by the EUT arrangement is 1 m by 1.5 m. For emissions testing at or below 1 GHz, the table height shall be 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. but it may be larger or smaller to accommodate various sized EUTs. For testing purposes, ceiling- and wall-mounted devices also shall be positioned on a tabletop (see also ANSI C63.10-2013 section 6.3.4 and 6.3.5). In making any tests involving handheld, body-worn, or ceiling-mounted equipment, it is essential to recognize that the measured levels may be dependent on the orientation (attitude) of the three orthogonal axes of the EUT. Thus, exploratory tests as specified in 8.3.1 shall be carried out for various axes orientations to determine the attitude having maximum or near-maximum emission level.

The EUT was placed on a non-conductive table. Below 18GHz , the measurement antenna was placed at a distance of 3 meters from the EUT. Above 18GHz , the measurement antenna was placed at a distance of 1 meter from the EUT. During the tests, the antenna height varied from 1m to 4m and the EUT azimuth were varied from 0° to 360° in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Remark:

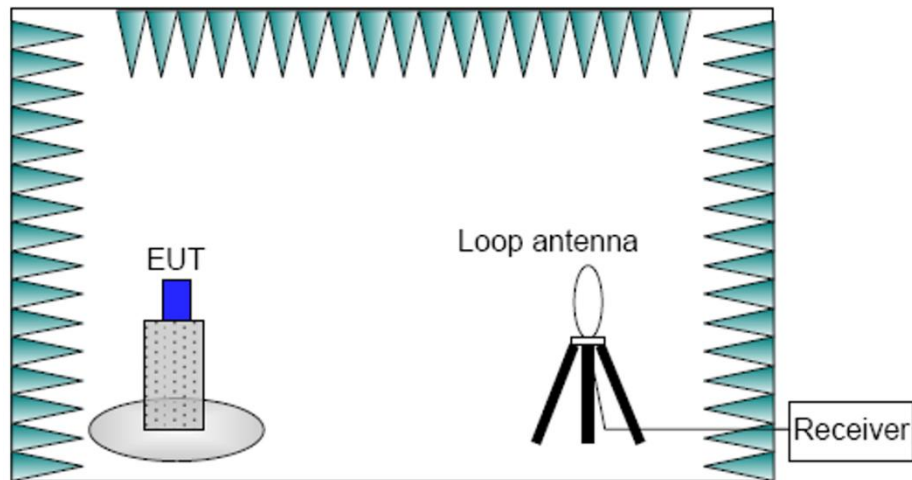
1. Factor= Antenna Factor + Cable Loss (-Amplifier, is employed)
2. Measured level= Original Receiver Reading + Factor
3. Margin = Limit – Measured level
4. If the PK measured level is lower than AV limit, the AV test can be elided

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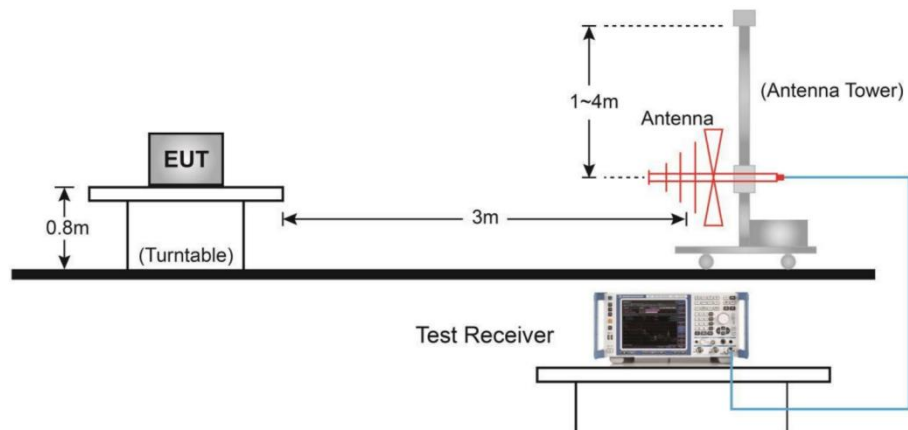
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## Test Setup

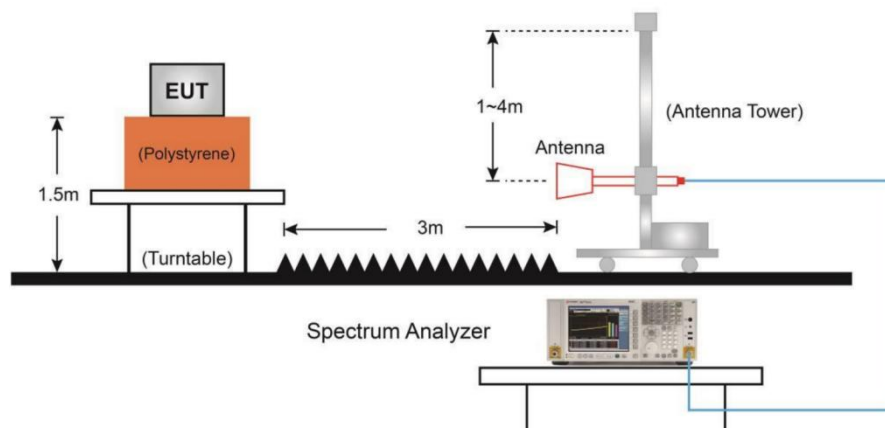
### Below 30MHz Test Setup



### Below 1GHz Test Setup



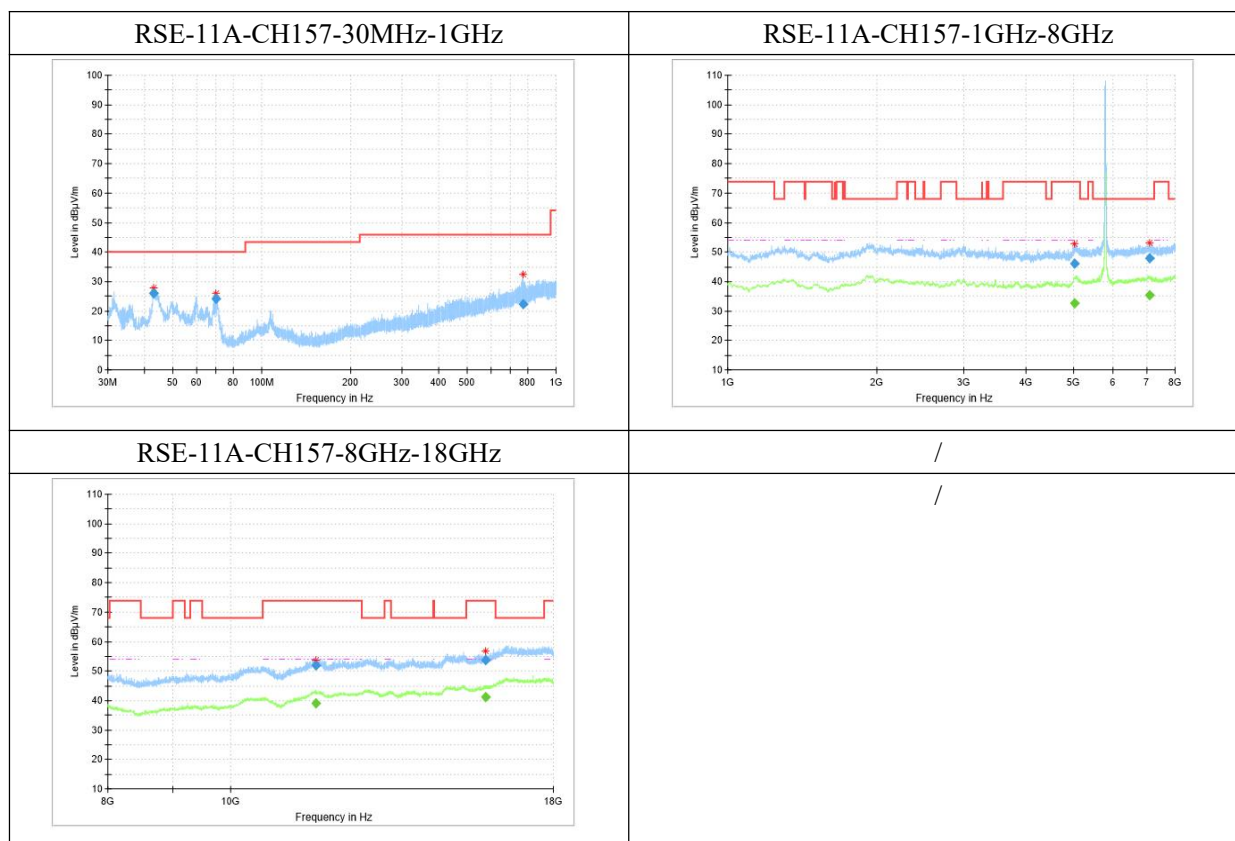
### Above 1GHz Test Setup



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## Measurement Results:



Note:

1. The out-of- limit signal in the picture is the main frequency signal.
2. Only data in worst mode is provided.
3. Sweep the whole frequency band through the range from 30MHz to the 10th harmonic of the carrier, the Emissions in the frequency band 18GHz-40GHz is more than 20dB below the limit are not report.
4. The test data below 30MHz is more than 20dB lower than the limit value, so it is not provided in the report.
5. Horizontal and vertical polarity is all have been tested, the result of them is synthesized in the above data diagram.

### RSE-11A-CH157-30MHz-1GHz

Frequency (MHz)	QuasiPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
42.9	25.86	-13	38.86	14.14	40.00	V
69.7	24.1	-16	40.1	15.90	40.00	V
772.1	22.46	-1	23.46	23.54	46.00	V

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**RSE-11A-CH157-1GHz-8GHz**

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5017.1	45.99	5	40.99	28.01	74.00	H
7112.0	48.05	4	44.05	20.15	68.20	V

**RSE-11A-CH157-1GHz-8GHz**

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
5017.1	32.53	5	27.53	21.47	54.00	H
7112.0	35.4	4	31.4	---	---	V

**RSE-11A-CH157-8GHz-18GHz**

Frequency (MHz)	MaxPeak(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
11678.8	52	11	41	22.00	74.00	H
15909.0	53.82	16	37.82	20.18	74.00	H

**RSE-11A-CH157-8GHz-18GHz**

Frequency (MHz)	Average(dBμV/m)	ARpl (dB)	PMea (dBμV/m)	Margin(dB)	Limit(dBμV/m)	Polarity
11678.8	38.96	11	27.96	15.04	54.00	H
15909.0	41.09	16	25.09	12.91	54.00	H



#### 6.4. AC Powerline Conducted Emission

<b>Specifications:</b>	FCC 47 Part 15.207
<b>DUT Serial Number:</b>	25B02W000008#S1
<b>Test conditions:</b>	Ambient Temperature:15°C-35°C Relative Humidity:30%-60%
<b>Test Results:</b>	Pass

#### Method of Measurement: ANSI C63.10-2013-clause 6.2

1. The one EUT cable configuration and arrangement and mode of operation that produced the emission with the highest amplitude relative to the limit is selected for the final measurement, while applying the appropriate modulating signal to the EUT.
2. If the EUT is relocated from an exploratory test site to a final test site, the highest emissions shall be remaximized at the final test location before final ac power-line conducted emission measurements are performed.
3. The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment in the system) is then performed for the full frequency range for which the EUT is being tested for compliance without further variation of the EUT arrangement, cable positions, or EUT mode of operation.
4. If the EUT is comprised of equipment units that have their own separate ac power connections, e.g., floor-standing equipment with independent power cords for each shelf that are able to connect directly to the ac power network, each current-carrying conductor of one unit is measured while the other units are connected to a second (or more) LISN(s). All units shall be separately measured. If a power strip is provided by the manufacturer, to supply all of the units making up the EUT, only the conductors in the power cord of the power strip shall be measured.

If the EUT uses a detachable antenna, these measurements shall be made with a suitable dummy load connected to the antenna output terminals; otherwise, the tests shall be made with the antenna connected and, if adjustable, fully extended. When measuring the ac conducted emissions from a device that operates between 150 kHz and 30 MHz a non-detachable antenna may be replaced with a dummy load for the measurements within the fundamental emission band of the transmitter, but only for those measurements.<sup>36</sup> Record the six highest EUT emissions relative to the limit of each of the current-carrying conductors of the power cords of the equipment that comprises the EUT over the frequency range specified by the procuring or regulatory agency. Diagram or photograph the test setup that was used. See Clause 8 for full reporting requirements.

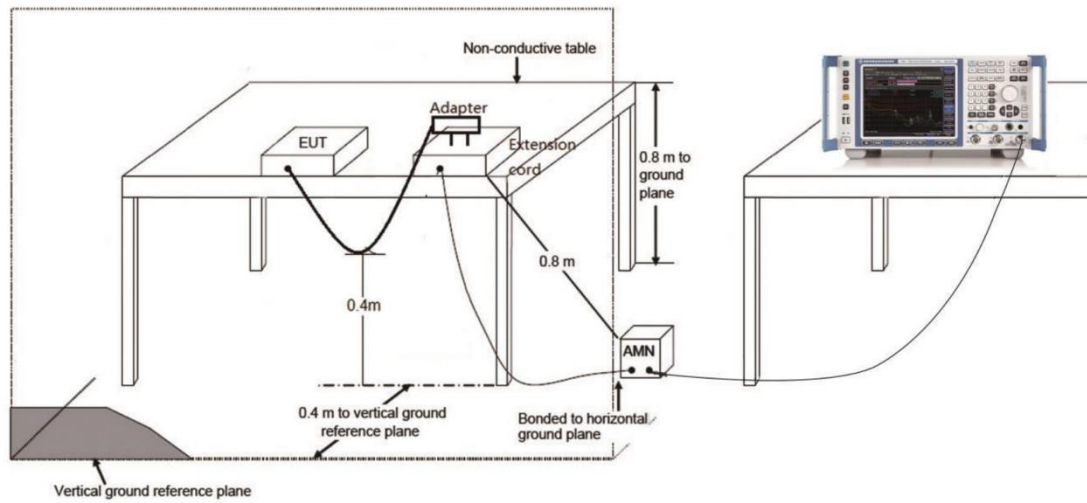
#### Measurement Uncertainty:

Measurement Uncertainty	1.97dB(K=2)
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## Test Setup



## Test Condition

Voltage (V)	Frequency (Hz)
120	60

## Measurement Result and limit

(Quasi-peak-average Limit)

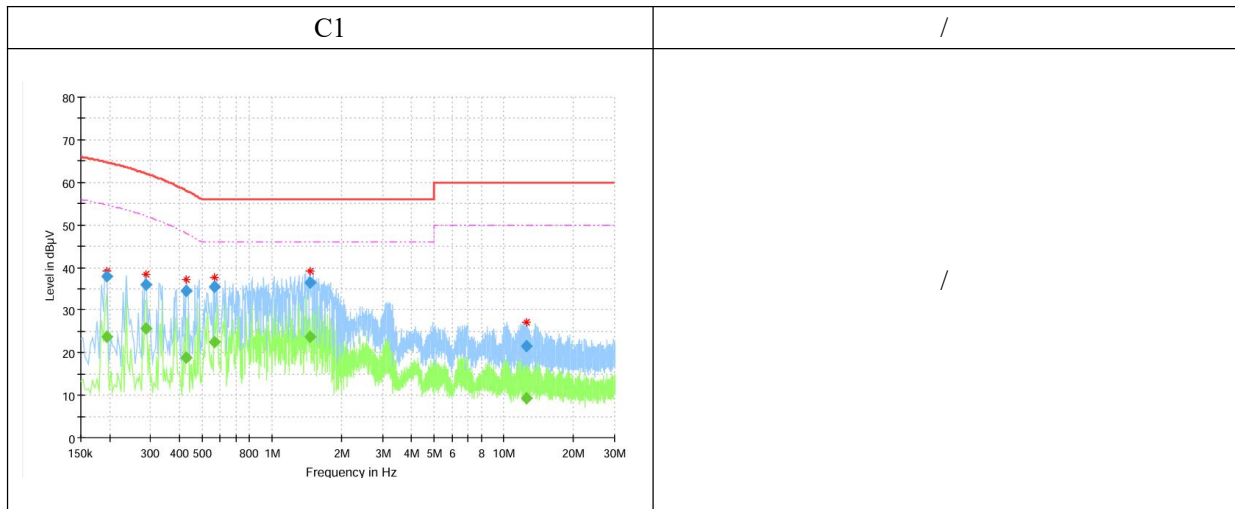
Frequency range (MHz)	Quasi-peak Limit (dBμV)	Average Limit (dBμV)	Conclusion
0.15 to 0.5	66 to 56	56 to 46	P
0.5 to 5	56	46	
5 to 30	60	50	

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

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### Measurement Results:



Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.194775	37.90	---	64.72	26.82	15000.0	9.000	N	ON	10.1
0.194775	---	23.71	54.72	31.01	15000.0	9.000	N	ON	10.1
0.288056	---	25.66	52.06	26.39	15000.0	9.000	N	ON	10.3
0.288056	36.01	---	62.06	26.05	15000.0	9.000	N	ON	10.3
0.426113	34.38	---	58.11	23.73	15000.0	9.000	N	ON	10.1
0.426113	---	18.78	48.11	29.34	15000.0	9.000	N	ON	10.1
0.567900	---	22.46	46.00	23.54	15000.0	9.000	L1	ON	10.0
0.567900	35.52	---	56.00	20.48	15000.0	9.000	L1	ON	10.0
1.455938	---	23.74	46.00	22.26	15000.0	9.000	N	ON	10.0
1.455938	36.46	---	56.00	19.54	15000.0	9.000	N	ON	10.0
12.451931	---	9.38	50.00	40.62	15000.0	9.000	N	ON	9.9
12.451931	21.52	---	60.00	38.48	15000.0	9.000	N	ON	9.9

Note:

1. All modes have been tested and only the worst mode is recorded in the report.
2. L1 and N is all have been tested, the result of them is synthesized in the above data diagram.

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**Report No.:25B02W000008-007**

## **ANNEX A EUT Photos**

See the document” 25B02W000008-External Photos”.

See the document” 25B02W000008-Internal Photos”.

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Report No.:25B02W000008-007

## **ANNEX B Deviations from Prescribed Test Methods**

No deviation from Prescribed Test Methods.

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

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