



TEST REPORT

REPORT NUMBER:25B02W000010-011

ON

Type of Equipment: Handheld Wireless Terminal
Type of Designation: T8F1C
Brand Name: SUNMI
Manufacturer: Shanghai Sunmi Technology Co.,Ltd.
FCC ID: 2AH25T8F1C

ACCORDING TO

FCC Part 15, Subpart B, ICES-003 Issue 7

Chongqing Academy of Information and Communications Technology

Month date, year

Aug.14th, 2025

Signature



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.: 25B02W000010-011

Revision Version

Report Number	Revision	Date
25B02W000010-011	00	2025-08-14

Chongqing Academy of Information and Communication Technology

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1. Test Laboratory

1.1. Testing Location

Name:	Chongqing Academy of Information and Communications Technology
FCC Registration 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%RH

1.3. Project data

Testing Start Date:	2025-06-03
Testing End Date:	2025-06-16

1.4. Signature

	2025-08-14
Li Runhao (Prepared this test report)	Date
	2025-08-14
Xiao Yu (Reviewed this test report)	Date
	2025-08-14
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:	8618501703215
Fax:	N/A
Email:	fang.lu@sunmi.com
Contact Person:	Fang Lu

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:	8618501703215
Fax:	N/A
Email:	fang.lu@sunmi.com
Contact Person:	Fang Lu

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

3.1. About EUT

EUT Description	Handheld Wireless Terminal
Model name	T8F1C
Brand name	SUNMI
Power Rating	DC 3.87V from battery, DC 5V & 9V from adapter
Highest frequency range	5825 MHz
Supported Radio Technology and Bands	GSM 850/900/1800/1900 WCDMA Band I/II/IV/V/VI/VIII/XIX LTE Band 1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/30/34/38/39/ 40/41/66/71 BT 5.2 BR/EDR/BLE WLAN 802.11b,g,n WLAN 802.11a,n,ac GPS/GLONASS/BDS/Galileo NFC RFID

Note: Photographs of EUT are shown in ANNEX B 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
25B02W000010#S4	862072070057688/ 862072070057696	V00	4.0.0	2025-05-23

*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	Note
C1	USB Cable	SSM-A033A
A1	Adapter	TPA-141A050200UU01

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A2	Adapter	UC13US
A3	Adapter	TPA-10120150UU
B1	Battery	GYPA
Q1	Notebook PC	Thinkpad
Q2	Desktop PC	OptiPlex 790 DT
C2	LAN Cable	N/A
C3	VGA Cable	N/A
C4	RS232 Cable	N/A
Q3	Keyboard	KB212-B
Q4	Mouse	MS111-P
Q5	Monitor	Dell E1709Wc
Q6	Micro SD card	Kingston SDC4/4GB 77
E1	Earphone	N/A

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

AE Information is provided by the customer.

4. Reference Documents

4.1. Reference Documents for testing

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

Reference	Title
FCC Part 15, Subpart B	Unintentional Radiators
ANSI C63.4-2014	Method of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
ICES-003 Issue 7	Information Technology Equipment (Including Digital Apparatus)-Limits and Methods of Measurement

5. Test Equipments Utilized

No.	Equipment	Model	SN	HW Version	SW Version	Manufacture	Cal.Due Date
1	Test Receiver	ESR 3	101382	03	3.48 SP2	R&S	2025-06-28
2	Test Receiver	ESW 26	101382	00	1.50 SP1	R&S	2025-06-28
3	Ultra-wideband Log Periodic Antenna	VULB 9163	9163-586	--	--	Schwarzbeck	2026-10-28
4	Double Ridged Guide Antenna	9120D	9120D-1083	--	--	Schwarzbeck	2026-11-08
5	Fully-Anechoic Chamber	FAC5	--	--	--	TDK	2027-11-04
6	Semi-Anechoic Chamber	SAC-10	--	--	--	TDK	2027-11-05
7	2-Line V-Network	ENV216	102368	--	--	R&S	2026-05-23
8	Test Receiver	ESU 40	100350	01	4.43 SP3	R&S	2025-06-28
9	Amplifier1	SCU-08F1	8320027	--	--	R&S	--
10	Amplifier2	SCU-18F	180093	--	--	R&S	--

Test software

No.	Name	version	SN	Manufacture
1	EMC32	V 9.26.01	--	R&S
2	EMC32	V10.20.01	--	R&S
3	EMC32	V10.40.10	--	R&S

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6. Test Results

6.1. Summary of Test Results

FCC Rules	IC Rules	Name of Test	Result
15.109	3.2.2	Radiated Emission	Pass
15.107	3.2.1	AC Conducted Emission	Pass

Note:

The T8F1C, manufactured by Shanghai Sunmi Technology Co.,Ltd. is a variant product for testing. This project is a variant project based on the original report 24T04I300217-071 issued by 3in with below changes:

- Added RFID function.
- Modified 2/3/4G Div Antenna and WIFI Antenna. Remove 1 NFC, Add RFID Antenna.
- PCB Changes,
- Removed: 8 Pin in behind.
- Mechanical shell changes.

Type of Service	Model Name	Super capacitor	pogopin	NFC	RFID
Original	T8F1B	Yes	8 Pin in behind &6 pin in bottom	Two-sided	No
Variant	T8F1C	No	6 Pin in bottom	Under screen	Yes

According to the product change description, we tested the worst mode of all test items in the original report as shown in Section 7.1&7.2.

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7. Test Results

7.1. Radiated Emission

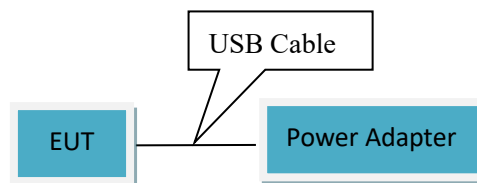
Specifications:	15.109 / 3.2.2
DUT Serial Number:	IMEI:862072070057688;862072070057696
Date of Tests	2025-06-03
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60%RH Air pressure: 86-106kPa
Operation Mode	30MHz-18GHz frequency range: Mode 1: LTE Band 41 receiver mode+ Back Camera+ A3+ C1+ B1 Mode 2: Full system+ Data Link mode+ C1-C4+ B1+ Q1-Q6+ E1
Test Results:	Pass
Note: 1. The worst case of radiated emission for 30MHz-1GHz is Mode 1 and for 1GHz -18GHz is Mode 2. 2. Data Link mode means data application transferred mode between EUT, SD Card and PC.	

Limit Level Construction (Except for Class A digital devices):

Frequency Range (MHz)	Quasi-Peak (dBμV/m)
30-88	40
88-216	43.5
216-960	46
Above 960	54

Frequency Range (MHz)	Peak (dBuV/m)	Average (dBμV/m)
Above 1000	74	54

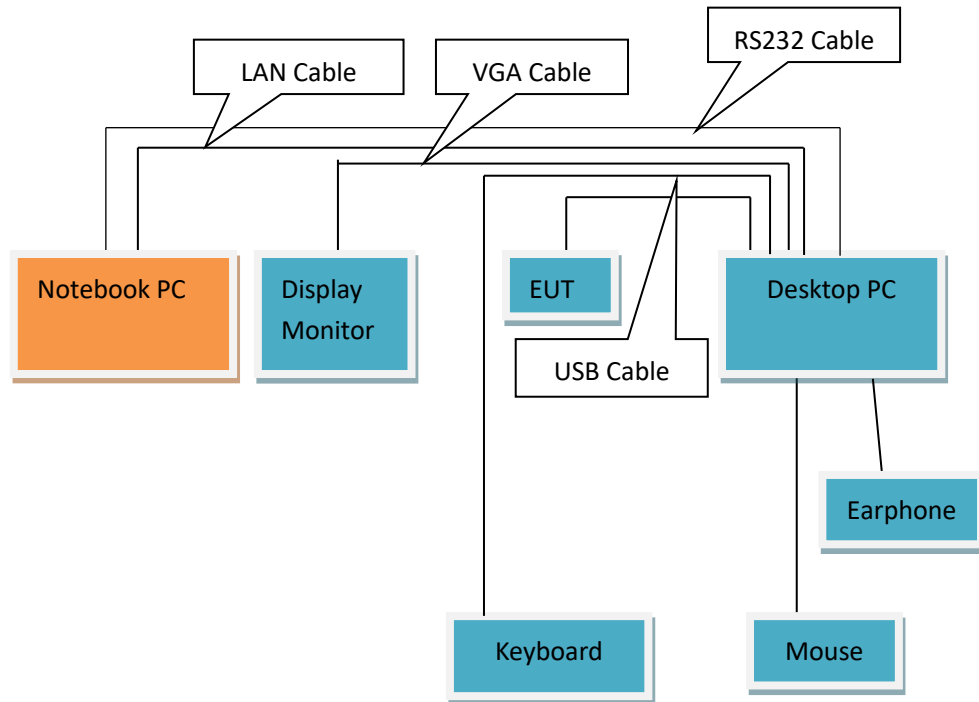
EUT Setup:



Mode 1

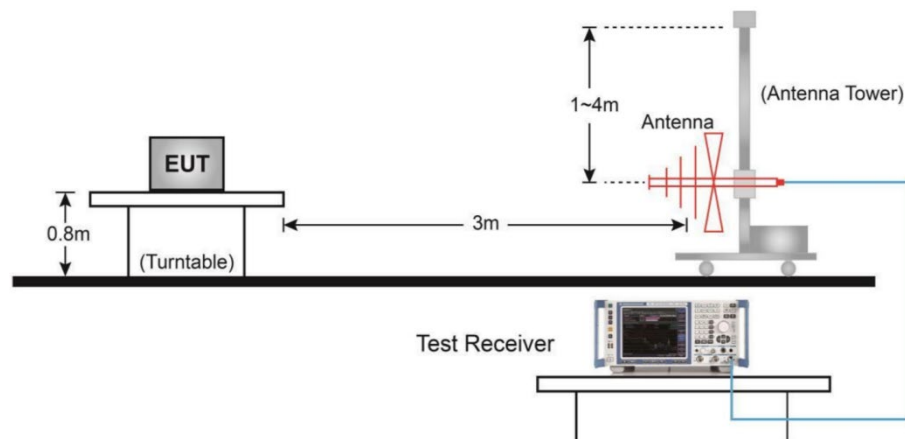
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Mode 2

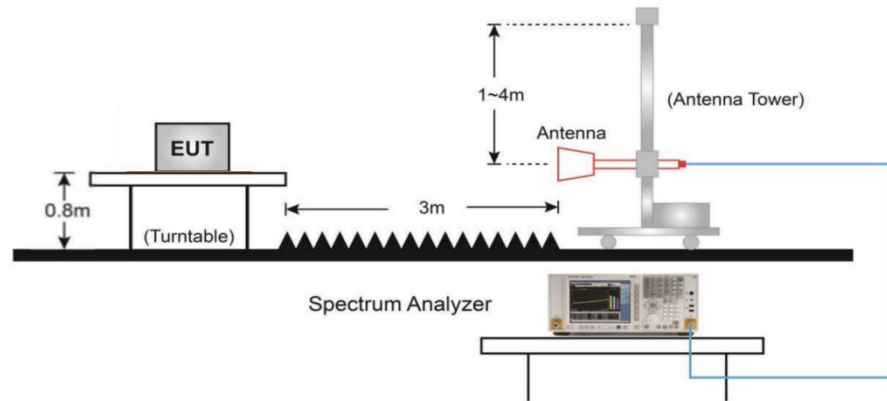
Below 1GHz Test Setup



Above 1GHz Test Setup

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Test Method:

For 30-1000MHz, the EUT was placed on the top of a rotating 0.8m table above the ground at a semi-anechoic chamber. The distance between the EUT and the received antenna was 3 meters. The table was rotated 360 degree and the received antenna mounted on a variable-height antenna tower was varied from 1m to 4m to find the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna were set during the measurement. Tested in accordance with the procedures of ANSI C63.4-2014, section 8.3.

For 1000-18000MHz, the EUT was placed on the top of a rotating 0.8m table above the ground at a fully-anechoic chamber. The distance between the EUT and the received antenna was 3 meters. The table was rotated 360 degrees and the received antenna mounted on a variable-height antenna tower was varied from 1m to 4m to find the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna were set during the measurement. Tested in accordance with the procedures of ANSI C63.4-2014, section 8.3.

Test Result:

Test mode: ALL modes, Only the worst case test data was reported.

A “reference path loss” is established and Corr is the attenuation of “reference path loss”, and including the factor of receive antenna, the gain of the preamplifier, the cable loss.

The measurement results are obtained as described below:

$$\text{Corr (dB/m)} = \text{Cable loss (dB)} + \text{Antenna Factor (dB/m)} - \text{Preamplifier gain (dB)}$$

$$\text{Result (dB}\mu\text{V/m)} = \text{PMea (dB}\mu\text{V)} + \text{Corr (dB/m)}$$

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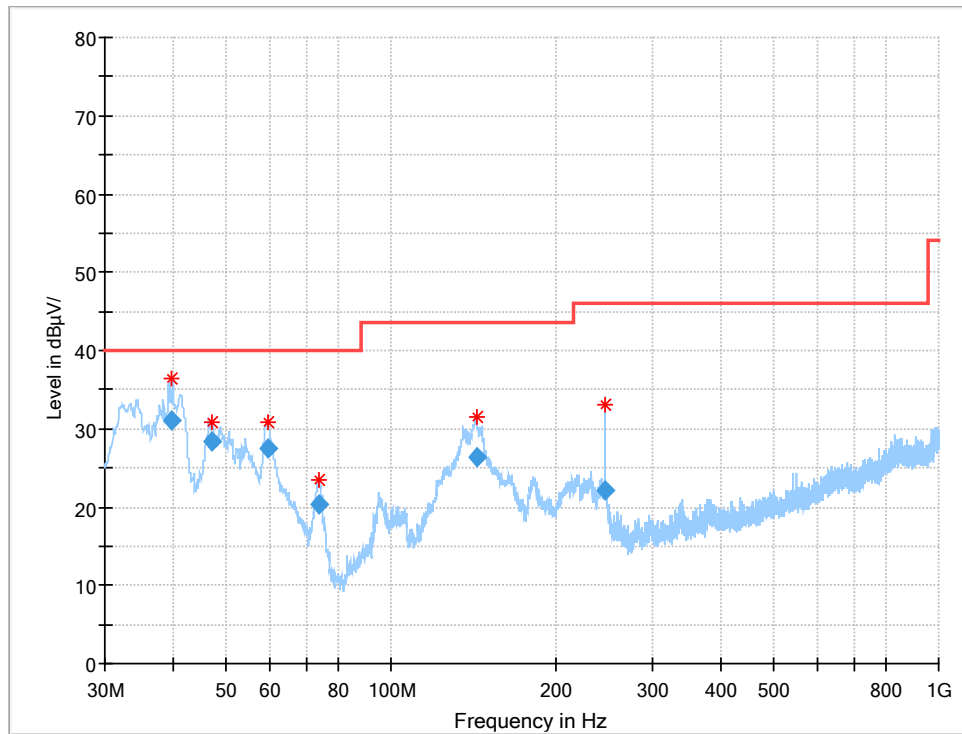
Uncertainty Measurement:

Item	Uncertainty	
	(H)	(V)
Expanded Uncertainty (30MHz-150MHz)	3.12dB (k=2) (H)	3.38dB (k=2) (V)
Expanded Uncertainty (150MHz-1000MHz)	2.87dB (k=2) (H)	4.09dB (k=2) (V)
Expanded Uncertainty (1GHz-6GHz)	4.84dB (k=2)	
Expanded Uncertainty (6GHz-18GHz)	4.52dB (k=2)	
Expanded Uncertainty (18GHz-26GHz)	6.19dB (k=2)	
Expanded Uncertainty (26GHz-40GHz)	6.03dB (k=2)	

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Test Data



Final_Result

RE 30MHz-1GHz_Mode 1

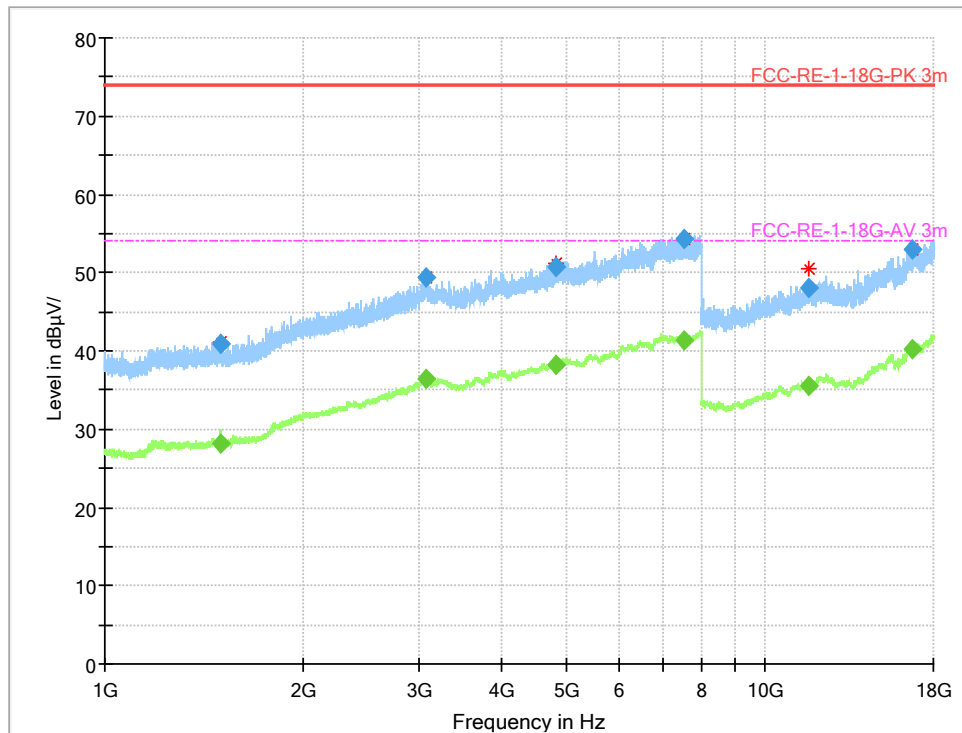
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
39.639640	30.97	40.00	9.03	100.0	V	58.0	-13.2
46.981160	28.30	40.00	11.70	100.0	V	150.0	-11.3
59.722440	27.42	40.00	12.58	100.0	V	0.0	-12.7
73.833640	20.25	40.00	19.75	100.0	V	286.0	-17.0
143.310640	26.35	43.50	17.15	100.0	V	12.0	-16.3
245.142320	22.12	46.00	23.88	200.0	V	322.0	-10.6

Note:

- Both H polarization and V polarization are tested.
- The test uses a limit of FCC Part 15B Class B, which also meets the requirements of the ICES-003 limit.

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Final_Result

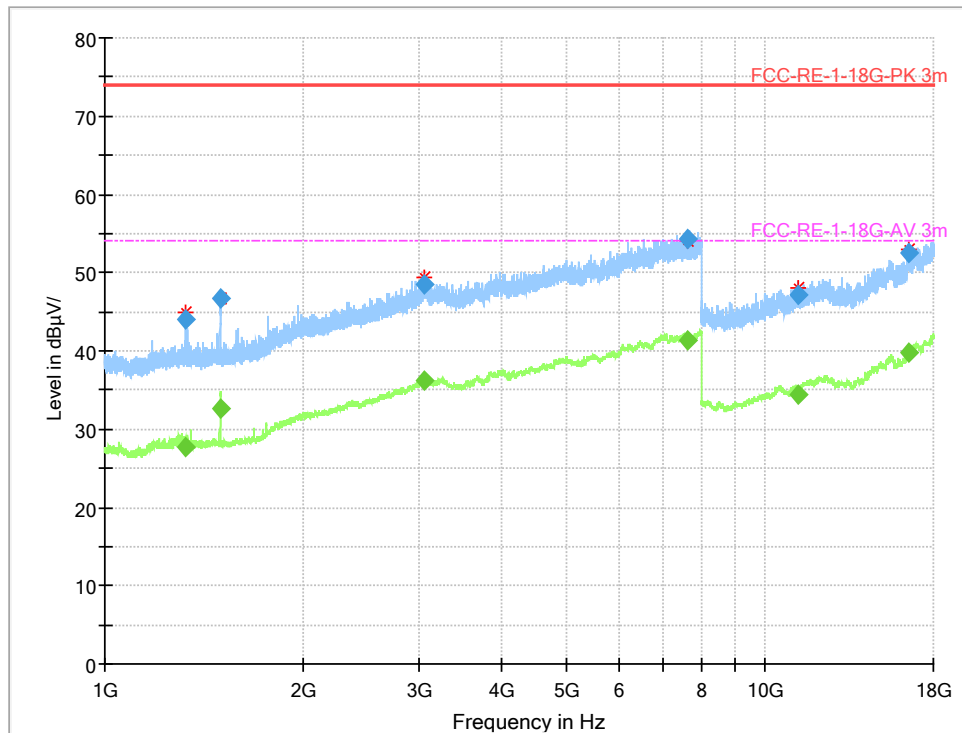
RE 1GHz-18GHz_Mode 2_H

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1498.608750	---	28.11	54.00	25.89	115.0	H	253.0	2.3
1498.608750	40.87	---	74.00	33.13	115.0	H	253.0	2.3
3072.938750	---	36.33	54.00	17.67	115.0	H	38.0	12.5
3072.938750	49.35	---	74.00	24.65	115.0	H	38.0	12.5
4825.655000	---	38.30	54.00	15.70	188.0	H	0.0	15.3
4825.655000	50.73	---	74.00	23.27	188.0	H	0.0	15.3
7533.426250	54.21	---	74.00	19.79	115.0	H	95.0	21.1
7533.426250	---	41.40	54.00	12.60	115.0	H	95.0	21.1
11685.76625	48.15	---	74.00	25.85	185.0	H	48.0	13.8
11685.76625	---	35.46	54.00	18.54	185.0	H	48.0	13.8
16751.37500	---	40.12	54.00	13.88	115.0	H	0.0	22.1
16751.37500	53.00	---	74.00	21.00	115.0	H	0.0	22.1

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Final_Result

RE 1GHz-18GHz_Mode 2_V

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1328.721250	---	27.73	54.00	26.27	100.0	V	358.0	2.1
1328.721250	44.10	---	74.00	29.90	100.0	V	358.0	2.1
1499.131250	---	32.63	54.00	21.37	100.0	V	206.0	2.3
1499.131250	46.77	---	74.00	27.23	100.0	V	206.0	2.3
3039.470000	48.41	---	74.00	25.59	185.0	V	115.0	12.5
3039.470000	---	36.14	54.00	17.86	185.0	V	115.0	12.5
7657.047500	---	41.33	54.00	12.67	115.0	V	70.0	21.1
7657.047500	54.26	---	74.00	19.74	115.0	V	70.0	21.1
11257.346250	---	34.40	54.00	19.60	115.0	V	243.0	12.2
11257.346250	47.07	---	74.00	26.93	115.0	V	243.0	12.2
16554.168750	---	39.80	54.00	14.20	100.0	V	0.0	21.6
16554.168750	52.45	---	74.00	21.55	100.0	V	0.0	21.6

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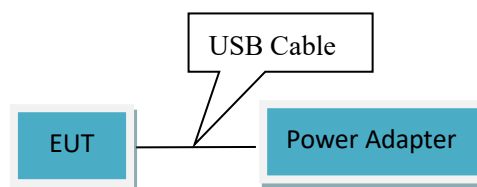
7.2. Conducted Emission

Specifications:	15.107 / 3.2.1
DUT Serial Number:	IMEI:862072070057688;862072070057696
Date of Tests	2025-06-03
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60%RH Air pressure: 86-106kPa
Operation Mode	Mode 3: LTE Band 2 receiver mode+ Front Camera+ A3+ C1+ B1
Test Results:	Pass
Note: 1. The worst case of AC conducted emission is Mode 3.	

Limit Level Construction:

Frequency Range (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency		

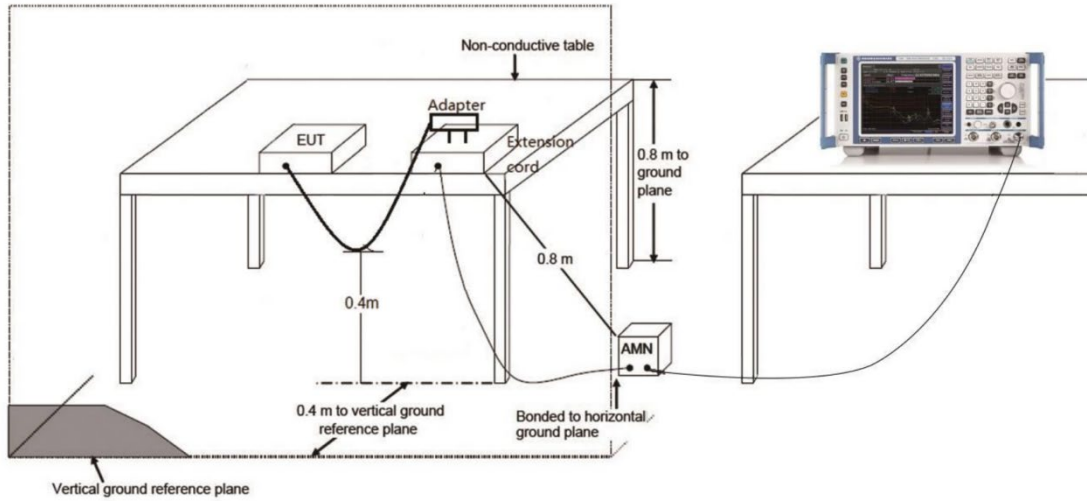
EUT Setup:



Mode 3

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Test Method:

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies with the band 150 kHz to 30MHz shall not exceed the limits. Both lines of the power mains connected to the EUT were checked for maximum conducted interference. Tested in accordance with the procedures of ANSI C63.4-2014, section 7.

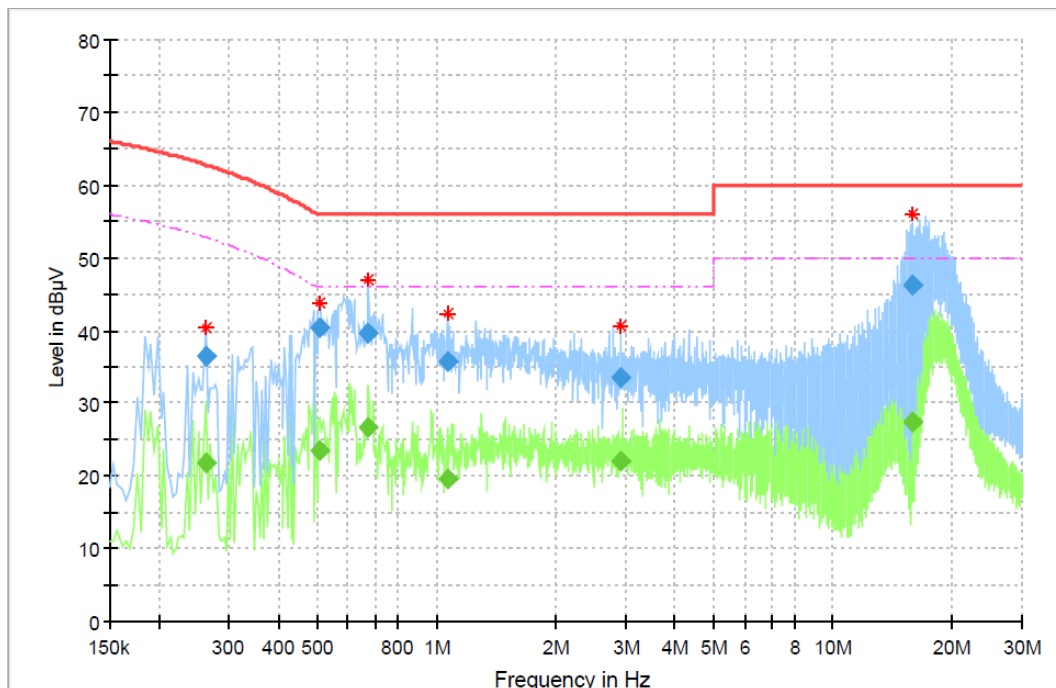
Uncertainty Measurement:

The measurement uncertainty (150kHz-30MHz) is 1.97 dB (k=2).

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Test Data



CE 150kHz-30MHz Mode 3

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.261938	36.45	---	62.80	26.36	15000.0	9.000	N	ON	10.2
0.261938	---	21.81	52.80	30.99	15000.0	9.000	N	ON	10.2
0.508200	---	23.40	46.00	22.60	15000.0	9.000	N	ON	10.1
0.508200	40.31	---	56.00	15.69	15000.0	9.000	N	ON	10.1
0.672375	39.63	---	56.00	16.37	15000.0	9.000	N	ON	10.1
0.672375	---	26.65	46.00	19.35	15000.0	9.000	N	ON	10.1
1.064156	35.63	---	56.00	20.37	15000.0	9.000	N	ON	9.9
1.064156	---	19.65	46.00	26.35	15000.0	9.000	N	ON	9.9
2.918588	33.52	---	56.00	22.48	15000.0	9.000	L1	ON	9.8
2.918588	---	22.01	46.00	23.99	15000.0	9.000	L1	ON	9.8
15.944381	---	27.48	50.00	22.52	15000.0	9.000	N	ON	9.8
15.944381	46.31	---	60.00	13.69	15000.0	9.000	N	ON	9.8

L1 and N is all have been tested, the result of them is synthesized in the above data diagram.

Emission level (quasi-peak or Average peak) (dBμV) = Raw value by receiver(dBμV) + Corr (Insertion loss+ cable loss) (dB)

The raw value is used to calculate by software which is not shown in the sheet.

Margin (dB) = limit value (dBμV) – emission level (dBμV).

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Annex A EUT Photos

See the document "25B02W000010-External Photos".

See the document "25B02W000010-Internal Photos".

Test photo See the document "25B02W000010_EMC Test Setup Photos".

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Annex B Deviations from Prescribed Test Methods

No deviation from Prescribed Test Methods.

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

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