

TEST REPORT

For

Handheld Wireless Terminal

Model Number: T8F1B

FCC ID: 2AH25T8F1BH

IC: 22621-T8F1BH

Report Number : WT268500175

Test Laboratory : Shenzhen Academy of Metrology and Quality
Inspection

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The "Important statement" on the back of the report's first page is part of the document, and copies without it are incomplete.

Revision History

No	Date	Remark
V1.0	2026.04.15	Initial issue

Test report declaration

Applicant : Shanghai Sunmi Technology Co.,Ltd.
Address : Room 505, No.388, Song Hu Road, Yang Pu District,
Shanghai, China
Manufacturer : Shanghai Sunmi Technology Co.,Ltd.
Address : Room 505, No.388, Song Hu Road, Yang Pu District,
Shanghai, China
EUT Description : Handheld Wireless Terminal
Model No. : T8F1B
Trade mark : SUNMI
HVIN : T8F1BH
FCC ID : 2AH25T8F1BH
IC : 22621-T8F1BH

Test Standards:

FCC PART 2, 22 , 24 , 27 & 90,
RSS-GEN Issue 5, RSS-130 Issue 2, RSS-132 Issue 4, RSS-133 Issue 7,
RSS-139 Issue 4, RSS-140 Issue 1, RSS-199 Issue 4

The EUT described above is tested by Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory to determine the maximum emissions from the EUT. Shenzhen Academy of Metrology and Quality Inspection EMC Laboratory is assumed full responsibility for the accuracy of the test results.

The results documented in this report only apply to the tested sample, under the conditions and modes of operation as described herein.

The test report shall not be reproduced in part without written approval of the laboratory.

Project
Engineer:

(Zeng Wei 曾伟)

Date: Apr.15, 2026

Checked by:

(Wan Xiaojing 万晓婧)

Date: Apr.15, 2026

Approved by:

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Date: Apr.15, 2026

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1. TEST RESULTS SUMMARY

GSM850 / WCDMA Band 5 / LTE Band 5 / LTE Band 26 (824~849 MHz)

Test Item	FCC Rule No.	IC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output	§2.1046, §22.913(a)(5)	RSS-132, §5.4	ERP ≤ 3 W	Pass
Peak-Average Ratio	§22.913(d)	RSS-132, §5.4	Limit ≤ 13 dB	Pass
Bandwidth	§2.1049	RSS-132, §5.2	OBW: No limit. EBW: No limit.	Pass
Band Edges Compliance	§2.1051, §22.917(a)	RSS-132, §5.5	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Pass
Spurious Emission at Antenna Terminals	§2.1051, §22.917(a)	RSS-132, §5.6	≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.	Pass
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	RSS-132, §5.6	≤ -13 dBm/100 kHz.	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §22.355	RSS-132, §5.3	±2.5ppm.	Pass

GSM1900 / WCDMA Band 2 / LTE Band 2 / LTE Band 25

Test Item	FCC Rule No.	IC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output	§2.1046, §24.232(c)	RSS-133, §5.3	EIRP ≤ 2 W	Pass
Peak- Average Ratio	§24.232(d)	RSS-133, §5.3.2	Limit ≤ 13 dB	Pass
Bandwidth	§2.1049	RSS-133, §5.2	OBW: No limit. EBW: No limit.	Pass
Band Edges Compliance	§2.1051, §24.238(a)	RSS-133, §5.4	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Pass
Spurious Emission at Antenna Terminals	§2.1051, §24.238(a)	RSS-133, §5.5	≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Pass
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	RSS-133, §5.5	≤ -13 dBm/1 MHz.	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §24.235	RSS-133, §5.1	Within authorized bands of operation/frequency block.	Pass

WCDMA Band 4 / LTE Band 4 / LTE Band 66

Test Item	FCC Rule No.	IC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output	§2.1046, §27.50(d)(4)	RSS-139, §5.5	EIRP ≤ 1 W	Pass
Peak-Average Ratio	§27.50(d)(5)	RSS-133, §5.5	Limit ≤ 13 dB	Pass
Bandwidth	§2.1049	RSS-133, §5.2	OBW: No limit. EBW: No limit.	Pass
Band Edges Compliance	§2.1051, §27.53(h)	RSS-133, §5.6	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(h)	RSS-133, §5.6	≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	RSS-133, §5.6	≤ -13 dBm/1 MHz.	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	RSS-133, §5.4	Within authorized bands of operation/frequency block.	Pass

LTE Band 12 / LTE Band 17

Test Item	FCC Rule No.	IC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output	§2.1046 §27.50(c)(10)	RSS-130, §4.4	ERP ≤ 3 W.	Pass
Peak-Average Ratio	---	RSS-130 §4.4	Limit ≤ 13 dB	Pass
Bandwidth	§2.1049	RSS-130, §4.2	OBW: No limit. EBW: No limit.	Pass
Band Edges Compliance	§2.1051, §27.53(g)	RSS-130, §4.7	$\leq 43+10\log_{10}(P[\text{Watts}])$	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	RSS-130, §4.7	$\leq 43+10\log_{10}(P[\text{Watts}])$	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	RSS-130, §4.7	≤ -13 dBm/100 kHz.	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	RSS-130, §4.3	Within authorized bands of operation/frequency block.	Pass

LTE Band 7 / LTE Band 38 / LTE Band 41

Test Item	FCC Rule No.	IC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output	§2.1046, §27.50(h)(2)	RSS-199, §5.5	EIRP $\leq$ 2W	Pass
Peak- Average Ratio	---	RSS-199 §5.5	$\leq$ 13 dB	Pass
Bandwidth	§2.1049	RSS-199, §5.2	OBW: No limit. EBW: No limit.	Pass
Band Edges Compliance	§2.1051, §27.53(m)(4)	RSS-199, §5.6	For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz.	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)	RSS-199, §5.6	Channel Edge -25 dBm/1 MHz -25 dBm/1 MHz 9 kHz 9.5 MHz X MHz 10th harmonics X=Max [6MHz, EBW]	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(m)	RSS-199, §5.6	Channel Edge -25 dBm/1 MHz -25 dBm/1 MHz 9 kHz 9.5 MHz X MHz 10th harmonics X=Max [6MHz, EBW]	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	RSS-199, §5.4	Within authorized bands of operation / frequency block.	Pass

LTE Band 13

Test Item	FCC Rule No.	IC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output	§2.1046, §27.50(b)(10)	RSS-130, §4.4	ERP ≤ 3 W.	Pass
Peak- Average Ratio	---	RSS-130 §4.4	Limit≤13 dB	Pass
Bandwidth	§2.1049,	RSS-130, §4.2	OBW: No limit. EBW: No limit.	Pass
Band Edges Compliance	§2.1051, §27.53(c)	RSS-130, §4.7	≤ 43+10log10(P[Watts])	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(c) §27.53(f)	RSS-130, §4.7	≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges. On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations. For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559- 1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(c) §27.53(f)	RSS-130, §4.7	FCC: ≤ -13 dBm/100 kHz. For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559- 1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	RSS-130, §4.3	Within authorized bands of operation/frequency block.	Pass

LTE Band 14

Test Item	FCC Rule No.	IC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output	§2.1046 §90.542(a)	RSS-140, §4.3	ERP ≤ 3 W.	Pass
Peak-Average Ratio	---	RSS-140, §4.3	Limit ≤ 13 dB	Pass
Bandwidth	§2.1049	---	OBW: No limit. EBW: No limit.	Pass
Emission Mask	§2.1051 §90.210(b)	---	Transmitters designed for operation under this part on frequencies other than listed in this section must meet the emission mask requirements of Emission Mask B. Equipment operating under this part on frequencies allocated to but shared with the Federal Government, must meet the applicable Federal Government technical standards (b) Emission Mask B. For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows: (1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB. (2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB.. (3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least $43 + 10 \log(P)$ dB.	Pass
Band Edges Compliance	§2.1051 §90.543(e)(2)(3)	RSS-140, §4.4	(1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations. (2) On all frequencies between 769-775 MHz and 799- 805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations. (3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log(P)$ dB.	Pass

Test Item	FCC Rule No.	IC Rule No.	Requirements	Verdict
Spurious Emission at Antenna Terminals	§2.1051, §90.543(c) §90.543(f)	RSS-140, §4.4	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges. For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW / MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.	Pass
Field Strength of Spurious Radiation	§2.1053, §90.543(c) §90.543(f)	RSS-140, §4.4	FCC: ≤ -13 dBm/100 kHz. For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW / MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §90.213	RSS-140, §4.2	Within authorized bands of operation/frequency block.	Pass

LTE Band 26 (814~824 MHz)

Test Item	FCC Rule No.	IC Rule No.	Requirements	Verdict
Transmitter Conducted Power Output	§2.1046, §90.635(b)	--	< 3 W.	Pass
Peak-Average Ratio	---	--	Limit ≤ 13 dB	Pass
Bandwidth	§2.1049	--	OBW: No limit. EBW: No limit.	Pass
Emission Mask	§2.1051 §90.691(a)	--	For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.	Pass
Spurious Emission at Antenna Terminals	§2.1051, §90.691	--	< $43 + 10 \log_{10}(P[\text{Watts}])$ for all out-of-band emissions	Pass
Field Strength of Spurious Radiation	§2.1053, §90.691	--	< $43 + 10 \log_{10}(P[\text{Watts}])$ for all out-of-band emissions	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §90.213	--	Within authorized bands of operation/frequency block.	Pass

LTE Band 71

Test Item	FCC Rule No.	IC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Power Output	§2.1046 §27.50(c)(10)	RSS-130, §4.4	ERP ≤ 3 W	Pass
Peak-Average Ratio	---	RSS-130 §4.4	Limit ≤ 13 dB	Pass
Bandwidth	§2.1049	RSS-130, §4.2	OBW: No limit. EBW: No limit.	Pass
Band Edges Compliance	§2.1051, §27.53(g)	RSS-130, §4.7	≤ 43+10log10(P[Watts])	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	RSS-130, §4.7	≤ 43+10log10(P[Watts])	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	RSS-130, §4.7	≤ -13 dBm/1 MHz.	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	RSS-130, §4.3	within the authorized bands of operation.	Pass

2. GENERAL INFORMATION

2.1. Report information

This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that SMQ approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that SMQ in any way guarantees the later performance of the product/equipment.

The samples mentioned in this report is/are supplied by Applicant, SMQ therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.

Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through SMQ, unless the applicant has authorized SMQ in writing to do so.

The lab will not be liable for any loss or damage resulting from false, inaccurate, inappropriate or incomplete product information provided by the applicant/manufacture.

2.2. Laboratory Accreditation and Relationship to Customer

The testing report were performed by the Shenzhen Academy of Metrology and quality Inspection EMC Laboratory (Guangdong EMC compliance testing center), in their facilities located at NETC Building, No.4 Tongfa Rd., Xili, Nanshan, Shenzhen, China. At the time of testing, Laboratory is accredited by the following organizations:

China National Accreditation Service for Conformity Assessment (CNAS) accredits the Laboratory for conformance to FCC standards, EMC international standards and EN standards. The Registration Number is CNAS L0579.

The Laboratory is Accredited Testing Laboratory of FCC with Designation number CN1165 and Site registration number 582918.

The Laboratory is registered to perform emission tests with Innovation, Science and Economic Development (ISED), and the registration number is 11177A.

The Laboratory is registered to perform emission tests with VCCI, and the registration number are C-20048, G20076, R-20077, R-20078, and T-20047.

The Laboratory is Accredited Testing Laboratory of American Association for Laboratory Accreditation (A2LA) and certificate number is 3292.01.

3. PRODUCT DESCRIPTION

3.1.EUT Description

Specification of the Equipment under Test

Tx Frequency:	GSM850	824 ~ 849 MHz
	PCS1900	1850 ~ 1910 MHz
	WCDMA Band V	824 ~ 849 MHz
	WCDMA Band IV	1710 ~ 1755 MHz
	WCDMA Band II	1850 ~ 1910 MHz
	LTE Band 2	1850 ~ 1910 MHz
	LTE Band 4	1710 ~ 1755 MHz
	LTE Band 5	824 ~ 849 MHz
	LTE Band 7	2500 ~ 2570 MHz
	LTE Band 12	699 ~ 716 MHz
	LTE Band 13	777 ~ 787 MHz
	LTE Band 14	788 ~ 798 MHz
	LTE Band 17	704 ~ 716 MHz
	LTE Band 25	1850 ~ 1915MHz
	LTE Band 26	814 ~ 849 MHz
	LTE Band 38	2570 ~ 2620 MHz
	LTE Band 41	2496 ~ 2690 MHz
	LTE Band 66	1710 ~ 1780 MHz
	LTE Band 71	663 ~ 698 MHz
Rx Frequency:	GSM850	869 ~ 894 MHz
	PCS1900	1930 ~ 1990 MHz
	WCDMA Band V	869 ~ 894 MHz
	WCDMA Band IV	2110 ~ 2155 MHz
	WCDMA Band II	1930 ~ 1990 MHz
	LTE Band 2	1930 ~ 1990 MHz
	LTE Band 4	2110 ~ 2155 MHz
	LTE Band 5	869 ~ 894 MHz
	LTE Band 7	2620 ~ 2690 MHz
	LTE Band 12	729 ~ 746 MHz
	LTE Band 13	746 ~ 756 MHz
	LTE Band 14	758 ~ 768 MHz
	LTE Band 17	734 ~ 746 MHz
	LTE Band 25	1930 ~ 1995 MHz
	LTE Band 26	859 ~ 894 MHz
	LTE Band 38	2570 ~ 2620 MHz
	LTE Band 41	2496 ~ 2690 MHz
	LTE Band 66	2110 ~ 2180 MHz
	LTE Band 71	617 ~ 652 MHz
Type(s) of Modulation:	GSM: GMSK, 8PSK WCDMA: QPSK LTE: QPSK, 16QAM, 64QAM	
Power Supply Voltage:	DC: 3.60V (Low) / 3.87V (Nominal) / 4.45V (Max)	

Remark: The product has the following configurations

Object	1st Source	2nd Source
Battery	Model name: GYPA Manufacturer: HUNAN GAOYUAN BATTERY CO.,LTD	Model name: HPPC Manufacturer: Guangdong Highpower New Energy Technology Co., Ltd.
LCD	Model name: 98-03067 7201A Manufacturer: SHENZHEN DJN PHOTOELECT RIC TECHNOLOGY CO.,LTD	Model name: G674AAA085A2(GF3825B) Manufacturer: GUANGDONGSUPERVIEWOPTOELECT RONICSCO.,LTD.

For Radiated test, Pre-scan was performed on all configurations. The worst configuration is: Battery: GYPA + LCD: G674AAA085A2 (GF3825B), which was selected for all radiated tests.

3.2. Antenna Gains

Frequency Bands	Tx Frequency	Maximum Antenna Gain
GSM 850	824 - 849 MHz	-0.37 dbi
PCS 1900	1850 - 1910 MHz	2.19 dbi
WCDMA band 2	1850 -1910 MHz	2.19 dbi
WCDMA band 4	1710 -1755MHz	1.85 dbi
WCDMA band 5	824 - 849MHz	-0.37 dbi
LTE band 2	1850 - 1910 MHz	2.19 dbi
LTE band 4	1710 - 1755 MHz	1.85 dbi
LTE band 5	824 - 849 MHz	-0.37 dbi
LTE band 7	2500 - 2570 MHz	0.46 dbi
LTE band 12	699 - 716 MHz	-3.46 dbi
LTE band 13	777 - 787 MHz	-3.53 dbi
LTE band 14	788 - 798 MHz	-3.62 dbi
LTE band 17	704 - 716 MHz	-3.46 dbi
LTE band 25	1850 - 1915MHz	2.19 dbi
LTE band 26	814 - 849 MHz	-0.37 dbi
LTE band 38	2570 - 2620 MHz	0.5 dbi
LTE band 41	2496 - 2690 MHz	0.57dbi
LTE band 66	1710 - 1780 MHz	1.89 dbi
LTE band 71	663 - 698 MHz	-4.4 dbi

NOTE:

1. The extreme test conditions for temperature and antenna gain were declared by the manufacturer.
2. The port of bottom antenna was chosen as representative port to perform the worst case of conducted test.
3. The EUT support transmission (1TX2RX). The EUT doesn't support UL-MIMO mode of GSM, WCDMA and LTE.

3.3. Identification of Accessory equipment

AE #	Type	Manufacturer	Model	Serial Number
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3.4. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: 2AH25T8F1BH filing to comply with FCC PART 2, 22H, 24E, 27 and 90S. This submittal(s) (test report) is intended for FCC ID: 2AH25T8F1BH and IC: 22621-T8F1BH filing to comply with RSS-GEN Issue 5, RSS-130 Issue 2, RSS-132 Issue 4, RSS-133 Issue 7, RSS-139 Issue 4, RSS-140 Issue 1, RSS-199 Issue 4.

3.5. Operating Condition of EUT

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission (Y plane).

Radiated spurious emissions were investigated below 30MHz, 30MHz-1GHz and above 1GHz. There were no emissions found on below 30MHz and 30MHz-1GHz.

- TM1:** GSM Mode with GMSK Modulation
- TM2:** EDGE Mode with 8PSK Modulation
- TM3:** WCDMA Mode with QPSK Modulation
- TM4:** LTE Mode with QPSK Modulation
- TM5:** LTE Mode with 16QAM Modulation
- TM6:** LTE Mode with 64QAM Modulation

3.6. Frequency List

Test Mode	UL Channel	UL Channel No.	UL Frequency (MHz)
GSM/GPRS/EGPRS 850	Low Channel	128	824.2
	Middle Channel	190	836.6
	High Channel	251	848.8
GSM/GPRS/EGPRS 1900	Low Channel	512	1850.2
	Middle Channel	661	1880.0
	High Channel	810	1909.8
WCDMA Band 2	Low Channel	9262	1852.4
	Middle Channel	9400	1880.0
	High Channel	9538	1907.6
WCDMA Band 4	Low Channel	1312	1712.4
	Middle Channel	1412	1732.4
	High Channel	1513	1752.6
WCDMA Band 5	Low Channel	4132	826.4
	Middle Channel	4182	836.4
	High Channel	4233	846.6

Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)
LTE Band 2	Low Range	1.4	18607	1850.7
		3	18615	1851.5
		5	18625	1852.5
		10	18650	1855
		15	18675	1857.5
		20	18700	1860
	Middle Range	1.4/3/5/10/15/20	18900	1880
	High Range	1.4	19193	1909.3
		3	19185	1908.5
		5	19175	1907.5
		10	19150	1905
		15	19125	1902.5
		20	19100	1900
LTE Band 4	Low Range	1.4	19957	1710.7
		3	19965	1711.5
		5	19975	1712.5
		10	20000	1715
		15	20025	1717.5
		20	20050	1720
	Middle Range	1.4/3/5/10/15/20	20175	1732.5
	High Range	1.4	20393	1754.3
		3	20385	1753.5
		5	20375	1752.5
		10	20350	1750
		15	20325	1747.5
		20	20300	1745
LTE Band 5	Low Range	1.4	20407	824.7
		3	20415	825.5
		5	20425	826.5
		10	20450	829
	Middle Range	1.4/3/5/10	20525	836.5
	High Range	1.4	20643	848.3
		3	20635	847.5
		5	20625	846.5
		10	20600	844

Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)
LTE Band 7	Low Range	5	20775	2502.5
		10	20800	2505
		15	20825	2507.5
		20	20850	2510
	Middle Range	5/10/15/20	21100	2535
	High Range	5	21425	2567.5
		10	21400	2565
		15	21375	2562.5
		20	21350	2560
LTE Band 38	Low Range	5	37775	2572.5
		10	37800	2575
		15	37825	2577.5
		20	37850	2580
	Middle Range	5/10/15/20	38000	2595
	High Range	5	38225	2617.5
		10	38200	2615
		15	38175	2612.5
		20	38150	2610

Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)
LTE Band 71	Low Range	5	133147	665.5
		10	133172	668
		15	133197	670.5
		20	133222	673
	Middle Range	5/10/15	133297	680.5
		20	133322	683
	High Range	5	133347	695.5
		10	133422	693
		15	133397	690.5
		20	133372	688

Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)
LTE Band 14	Low Range	5	23305	790.5
	Middle Range	5/10	23330	793
	High Range	5	23355	795.5

Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)
LTE Band 12	Low Range	1.4	23017	699.7
		3	23025	700.5
		5	23035	701.5
		10	23060	704
	Middle Range	1.4/3/5/10	23095	707.5
	High Range	1.4	23173	715.3
		3	23165	714.5
		5	23155	713.5
		10	23130	711
LTE Band 13	Low Range	5	23205	779.5
	Middle Range	5/10	23230	782
	High Range	5	23255	784.5
LTE Band 17	Low Range	5	23755	706.5
		10	23780	709
	Middle Range	5/10	23790	710
	High Range	5	23825	713.5
		10	23800	711
LTE Band 26 (824 - 849 MHz)	Low Range	1.4	26797	824.7
		3	26805	825.5
		5	26815	826.5
		10	26840	829
		15	26865	831.5
	Middle Range	1.4/3/5/10/15	26915	836.5
	High Range	1.4	27033	848.3
		3	27025	847.5
		5	27015	846.5
		10	26990	844
		15	26965	841.5
LTE Band 26 (814 - 824 MHz)	Low Range	1.4	26697	814.7
		3	26705	815.5
		5	26715	816.5
	Middle Range	1.4/3/5/10	26740	819
	High Range	1.4	26783	823.3
		3	26775	822.5
		5	26765	821.5

Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)
LTE Band 66	Low Range	1.4	131979	1710.7
		3	131987	1711.5
		5	131997	1712.5
		10	132022	1715
		15	132047	1717.5
		20	132072	1720
	Middle Range	1.4/3/5/10/15/20	132322	1745
	High Range	1.4	132665	1779.3
		3	132657	1778.5
		5	132647	1777.5
		10	132622	1775
		15	132597	1772.5
		20	132572	1770

Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)
LTE Band 25	Low Range	1.4	26047	1850.7
		3	26055	1851.5
		5	26065	1852.5
		10	26090	1855
		15	26115	1857.5
		20	26140	1860
	Middle Range	1.4/3/5/10/15/20	26365	1882.5
	High Range	1.4	26683	1914.3
		3	26675	1913.5
		5	26665	1912.5
		10	26640	1910
		15	26615	1907.5
		20	26590	1905

Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)
LTE Band 41 (2496 - 2690 MHz)	Low Range	5	39675	2498.5
		10	39700	2501
		15	39725	2503.5
		20	39750	2506
	Middle Range	5/10/15/20	40620	2593
	High Range	5	41565	2687.5
		10	41540	2685
		15	41515	2682.5
		20	41490	2680

Test Mode	UL Channel	Channel Bandwidth (MHz)	UL Channel No.	UL Frequency (MHz)
LTE Band 41 (2500 - 2690 MHz)	Low Range	5	39715	2502.5
		10	39740	2505
		15	39765	2507.5
		20	39790	2510
	Middle Range	5/10/15/20	40620	2593
	High Range	5	41565	2687.5
		10	41540	2685
		15	41515	2682.5
		20	41490	2680

Note: FCC rule Part 22.905 of LTE Band 26 (824-849MHz) is covered by LTE band 5 of same rule, since they have the same output power and supported bandwidths. In this report, only test FCC rule Part 90S of LTE Band 26 (814-824MHz) and Part 22.905 of LTE Band 26 (824-849MHz) bandwidth 15MHz.

3.7.Environmental Conditions

Date of test: 2026.01.19 – 2026.03.05 and 2026.04.15

Date of EUT Receive: 2026.01.19

DC: 3.60V (Low) / 3.87V (Nominal) / 4.45V (Max)

Temperature: -30 °C (Low) / (22-26) °C (Nominal) / +50 °C (Max)

Relative Humidity: (44-51) %

Air Pressure: (100.7-101.9) kPa

3.8.Special Accessories

Not available for this EUT intended for grant.

3.9.Equipment Modifications

Not available for this EUT intended for grant.

4. TEST EQUIPMENT USED

Conducted test equipment

No.	Equipment	Manufacturer	Model No.	Calibrated until	Calibrated Interval
SB18827	Wideband Radio communication Tester	Rohde & Schwarz	CMW500	2026-04-17	1 Year
SB9721/02	Signal Analyzer	Agilent	N9020A	2026-04-17	1 Year
SB20321/01	Signal Analyzer	Rohde & Schwarz	FSV3044	2026-04-17	1 Year
SB7941/02	Signal Analyzer	Rohde & Schwarz	FSU26	2026-04-16	1 Year
SB9721/07	DC Power Supply	Agilent	66319D	--	--
SB11818	Temperature & Humidity Test chamber	Espec	EH-010U	2026-09-21	1 Year
--	Test Software	Tonscend	JS1120 Ver.3.1.46	--	--

Radiated spurious test equipment

No.	Equipment	Manufacturer	Model No.	Calibrated until	Calibrated Interval
SB8501/09	EMI Test Receiver	Rohde & Schwarz	ESU40	2027-01-03	1 Year
SB9054/08	Bilog Antenna	Schwarzbeck	VULB9163	2026-12-08	1 Year
SB3435	Horn Antenna	Rohde & Schwarz	HF906	2026-11-13	1 Year
SB8501/11	Horn Antenna	ETS-Lindgren	3160-09	2026-02-21	3 Year
SB8501/12	Horn Antenna	ETS-Lindgren	3160-10	2026-02-21	3 Year
SB8501/14	Preamplifier	Rohde & Schwarz	SCU-03	2027-01-03	1 Year
SB8501/17	Preamplifier	Rohde & Schwarz	SCU-18	2026-11-24	1 Year
SB8501/16	Preamplifier	Rohde & Schwarz	SCU-26	2027-01-03	1 Year
SB9059	Preamplifier	Rohde & Schwarz	SCU-40	2026-08-10	1 Year
SB12724/06	Wideband Radio communication Tester	Rohde & Schwarz	CMW500	2026-04-17	1 Year
--	Radiated Test Software	Rohde & Schwarz	EMC 32	--	--
SB9555/02	Fully Anechoic Chamber	Albatross	10.0*5.2*5.4(m)	2026-07-15	1 Year
SB15044/01	Test Receiver	Rohde & Schwarz	ESW8	2027-02-01	1 Year
SB12944	Broadband Antenna	Rohde & Schwarz	VULB9163	2026-12-08	1 Year
SB18844	Semi Anechoic Chamber	Albatross	9×6×6(m)	2027-01-25	1 Year

5. MEASUREMENT UNCERTAINTY

For a 95% confidence level ($k = 2$), the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

26dB & Occupied Bandwidth: $\pm 0.39\%$

Frequency Stability: $\pm 0.42\%$

Peak to Average Ratio: ± 0.45 dB

Conducted power: ± 0.3 dB

Conducted Spurious Emissions: ± 2.0 dB

Conducted Band Edge: ± 2.0 dB

Temperature: ± 0.698 °C

Supply voltages: $\pm 0.15\%$

Radiated Emission:

30MHz~1000MHz 4.5dB

1GHz~6GHz 4.6dB

6GHz~18GHz 5.1dB

18GHz~26.5GHz 5.1dB

6. TEST ITEMS

6.1. Effective (Isotropic) Radiated Power Output

6.1.1. Test Procedure

KDB 971168 Section 5.6

$EIRP\ (dBm) = ERP\ (dBm) + 2.15\ (dB)$

$ERP/EIRP = P_{Meas} + GT - LC$

where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as P_{Meas}, typically dBW or dBm);

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

EUT includes different power levels for head use configuration and body use configuration and the below tables contain the highest of all configurations average conducted and ERP/EIRP output powers.

6.2. Peak to Average Ratio

6.2.1. Test Procedure

According to KDB 971168 D01, there is CCDF procedure for PAPR:
Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;

Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;

Set the number of counts to a value that stabilizes the measured CCDF curve;

Set the measurement interval as follows:

for continuous transmissions, set to 1 ms,

for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.

Record the maximum PAPR level associated with a probability of 0.1%.

Alternate procedure for PAPR:

Use one of the procedures presented in 4.1 to measure the total peak power and record as PPk. Use one of the applicable procedures presented 4.2 to measure the total average power and record as PAvg. Both the peak and average power levels must be expressed in the same logarithmic units (e.g., dBm). Determine the PAPR from:

$\text{PAPR (dB)} = \text{PPk (dBm)} - \text{PAvg (dBm)}$.

6.3. Occupied Bandwidth & Emission Bandwidth

6.3.1. Test Limit

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured under the following conditions as applicable.

Transmitters employing digital modulation techniques-when modulated by an input signal such that its amplitude and symbol rate represent the maximum rated conditions under which the equipment will be operated.

6.3.2. Test Procedure

1. Connect the equipment as shown in the above diagram.
 2. Adjust the settings of the Universal Radio Communication Tester to set the EUT to its maximum power at the required channel.
 3. Set the spectrum analyzer to measure the 99% occupied bandwidth. Record the value.
 4. Set the spectrum analyzer to measure the -26 dB emission bandwidth. Record the value.
 5. Measurements are to be performed with the EUT set to the low, middle and high channel of each frequency band.
- Spectrum analyzer settings: Measurement bandwidth of at least 1% of the occupied bandwidth.

6.4. Conducted Band Edge

6.4.1. Test Procedure

1. Connect the equipment as shown in the above diagram with the EUT's antenna in a horizontal orientation.
2. Adjust the settings of the Wideband Radio Communication Tester to set the EUT to its maximum power at the required channel.
3. Set the spectrum analyzer to measure peak hold with the required settings.
4. Place the measurement antenna in a horizontal orientation. Rotate the EUT 360 .

Raise the measurement antenna up to 4 meters in 0.5 meters increments and rotate the EUT 360 at each height to maximize all emissions. Measure and record all spurious emissions (LVL) up to the tenth harmonic of the carrier frequency.

5. Replace the EUT with a horizontally polarized half wave dipole or known gain antenna. The center of the antenna should be at the same location as the center of the EUT's antenna.

6. Connect the antenna to a signal generator with known output power and record the path loss in dB (LOSS). $LOSS = \text{Generator Output Power (dBm)} - \text{Analyzer reading (dBm)}$.

7. Determine the level of spurious emissions using the following equation:
 $\text{Spurious (dBm)} = \text{LVL (dBm)} + \text{LOSS (dB)}$:

8. Repeat steps 4, 5 and 6 with all antennas vertically polarized.

9. Determine the level of spurious emissions using the following equation:
 $\text{Spurious (dBm)} = \text{LVL (dBm)} + \text{LOSS (dB)}$:

10. Measurements are to be performed with the EUT set to the low, middle and high channel of each frequency band.

(Note: Steps 5 and 6 above are performed prior to testing and LOSS is recorded by test software. Steps 3, 4 and 7 above are performed with test software.)

Spectrum analyzer settings: RBW=1MHz, VBW=3*RBW

6.5. Conducted Spurious Emissions

6.5.1. Test Procedure

1. Connect the equipment as shown in the above diagram.
2. Set the spectrum analyzer to measure peak hold with the required settings.
3. Set the signal generator to a known output power and record the path loss in dB (LOSS) for frequencies up to the tenth harmonic of the EUT's carrier frequency.

$LOSS = \text{Generator Output Power (dBm)} - \text{Analyzer reading (dBm)}$.

4. Replace the signal generator with the EUT.
5. Adjust the settings of the Universal Radio Communication Tester to set the EUT to its maximum power at the required channel.
6. Set the spectrum analyzer to measure peak hold with the required settings. Offset the spectrum analyzer reference level by the path loss measured above.
7. Measure and record all spurious emissions up to the tenth harmonic of the carrier frequency.
8. Measurements are to be performed with the EUT set to the low, middle and high channel of each frequency band.
9. If necessary steps 6 and 7 may be performed with the spectrum analyzer set to average detector.

(Note: Step 3 above is performed prior to testing and LOSS is recorded by test software. Steps 2, 6, and 7 above are performed with test software.)

6.6. Frequency Stability

6.6.1. Test Setup

Frequency Stability (Temperature Variation)

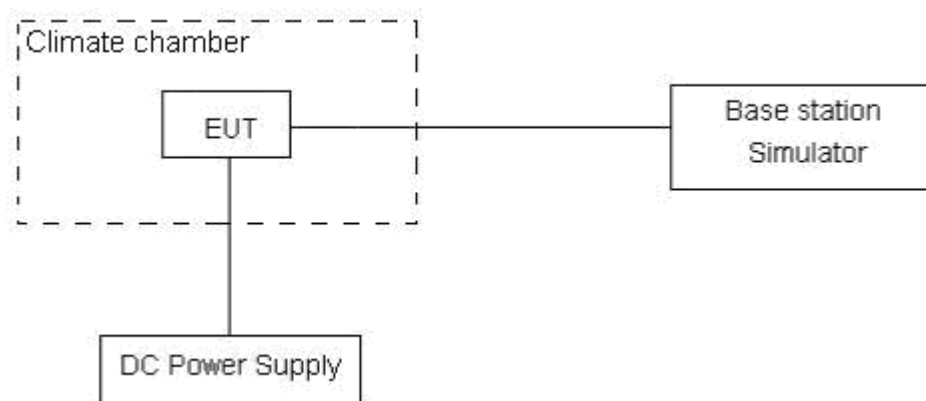
The temperature inside the climate chamber is varied from -30°C to +50°C in 10°C step size,

- (1) With all power removed, the temperature was decreased to 0°C and permitted to stabilize for three hours.
- (2) Measure the carrier frequency with the test equipment in a “call mode”. These measurements should be made within 1 minute of powering up the mobile station, to prevent significant self warming.
- (3) Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1.5 hours at each temperature, un-powered, before making measurements.

Frequency Stability (Voltage Variation)

The frequency stability shall be measured with variation of primary supply voltage as follows:

- (1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.
- (2) For hand carried, battery powered equipment, reduce primary supply voltage to the battery-operating end point which shall be specified by the manufacturer.



6.7. Radiated Spurious Emissions

6.7.1. Test Procedure

1. Connect the equipment as shown in the above diagram with the EUT's antenna in a horizontal orientation.
2. Adjust the settings of the Wideband Radio Communication Tester to set the EUT to its maximum power at the required channel.
3. Set the spectrum analyzer to measure peak hold with the required settings.
4. Place the measurement antenna in a horizontal orientation. Rotate the EUT 360°.

Raise the measurement antenna up to 4 meters in 0.5 meters increments and rotate the EUT 360° at each height to maximize all emissions. Measure and record all spurious emissions (LVL) up to the tenth harmonic of the carrier frequency.

5. Replace the EUT with a horizontally polarized half wave dipole or known gain antenna. The center of the antenna should be at the same location as the center of the EUT's antenna.

6. Connect the antenna to a signal generator with known output power and record the path loss in dB (LOSS). $LOSS = \text{Generator Output Power (dBm)} - \text{Analyzer reading (dBm)}$.

7. Determine the level of spurious emissions using the following equation:
 $\text{Spurious (dBm)} = \text{LVL (dBm)} + \text{LOSS (dB)}$

8. Repeat steps 4, 5 and 6 with all antennas vertically polarized.

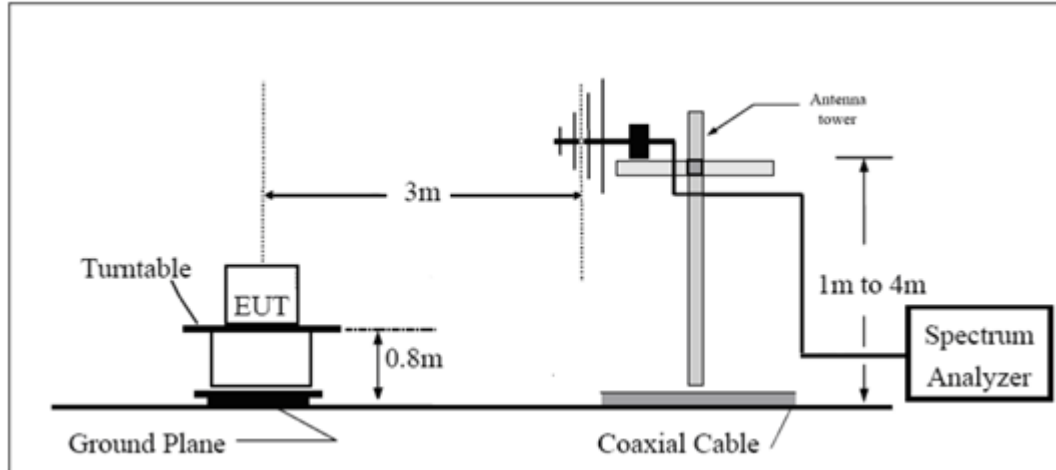
9. Determine the level of spurious emissions using the following equation:
 $\text{Spurious (dBm)} = \text{LVL (dBm)} + \text{LOSS (dB)}$

10. Measurements are to be performed with the EUT set to the low, middle and high channel of each frequency band.

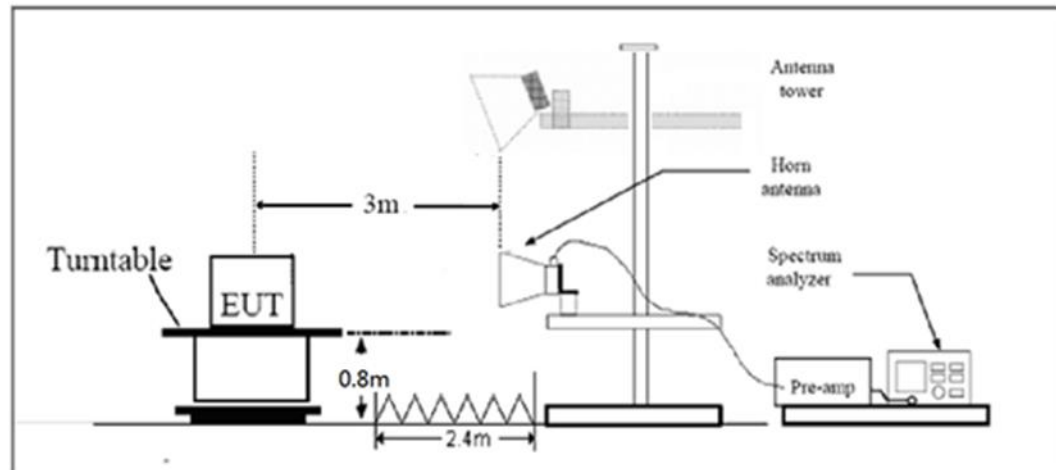
(Note: Steps 5 and 6 above are performed prior to testing and LOSS is recorded by test software. Steps 3, 4 and 7 above are performed with test software.)
Spectrum analyzer settings: RBW=VBW=1MHz

6.7.2. Test Setup

For Radiated test from 30MHz to 1GHz



For Radiated test above 1GHz



7. APPENDIXES

Appendix A	CONDUCTED TEST – GSM
Appendix B	CONDUCTED TEST – WCDMA
Appendix C-1	CONDUCTED TEST – LTE Band2
Appendix C-2	CONDUCTED TEST – LTE Band4
Appendix C-3	CONDUCTED TEST – LTE Band5
Appendix C-4	CONDUCTED TEST – LTE Band7
Appendix C-5	CONDUCTED TEST – LTE Band12
Appendix C-6	CONDUCTED TEST – LTE Band13
Appendix C-7	CONDUCTED TEST – LTE Band14
Appendix C-8	CONDUCTED TEST – LTE Band17
Appendix C-9	CONDUCTED TEST – LTE Band25
Appendix C-10	CONDUCTED TEST – LTE Band26
Appendix C-11	CONDUCTED TEST – LTE Band38
Appendix C-12	CONDUCTED TEST – LTE Band41
Appendix C-13	CONDUCTED TEST – LTE Band66
Appendix C-14	CONDUCTED TEST – LTE Band71
Appendix D	RADIATED TEST