



Report No.: SUCR260300017702
Page: 1 of 31

TEST REPORT

Application No.: SUCR2603000177TL
Applicant: Shanghai Sunmi Technology Co.,Ltd.
Address of Applicant: Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China
Manufacturer: Shanghai Sunmi Technology Co.,Ltd.
Address of Manufacturer: Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China
EUT Description: Wireless Data Terminal
Model No.: TFB1B
Trade Mark: SUNMI
FCC ID: 2AH25M3L
Standards: 47 CFR Part 2
47 CFR Part 22
47 CFR Part 24
47 CFR Part 27
47 CFR Part 90
Date of Receipt: 2026-03-04
Date of Test: 2026-02-14
Date of Issue: 2026-03-31

Test Result :	PASS *
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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Version

Revision Record			
Version	Description	Date	Remark
01	Original	2026-03-31	/

Authorized for issue by:			
Tested By		Hayley Zhang	
		Hayley Zhang / Project Manager	
Approved By		Cedar cheng	
		Cedar Cheng /Reviewer	

Contents

Version	2
1 Test Summary	4
1.1 GSM850/UMTS Band 5/LTE Band 5/26(824~849 MHz)	4
1.2 GSM 1900/UMTS Band 2 /LTE Band 2 /25	5
1.3 UMTS Band 4 /LTE Band 4 /66	6
1.4 LTE Band 7/38/41	7
1.5 LTE Band 12/17	8
1.6 LTE Band 13	9
1.7 LTE Band 26(814~824 MHz)	10
1.8 LTE Band 30	11
1.9 LTE Band 71	13
2 General Information	14
2.1 Details of Client	14
2.2 Test Location	14
2.3 Test Facility	14
2.4 General Description of EUT	15
2.5 Test Mode	16
2.6 Test Environment	16
2.7 Description of Support Units	16
2.8 Technical Specification	17
2.9 Test Frequencies	19
3 Main Test Instruments	27
4 Measurement Uncertainty	28
5 Description of Tests	29
5.1 Conducted Output Power	29
5.2 Effective (Isotropic) Radiated Power of Transmitter	29
5.3 Test Setups	30
5.4 Test Conditions	30
6 Appendixes	31

1 Test Summary

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

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913(a)(5)	ERP ≤ 7 W	Refer to the Appendixs	Pass
Peak-Average Ratio	§22.913(d)	Limits≤13 dB		Reference report SUCR250300025501
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §22.917(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.		
Spurious Emission at Antenna Terminals	§2.1051, §22.917(a)	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.		
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	FCC: ≤ -13 dBm/100 kHz.		
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §22.355	±2.5ppm.		

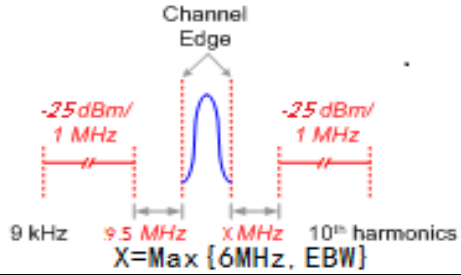
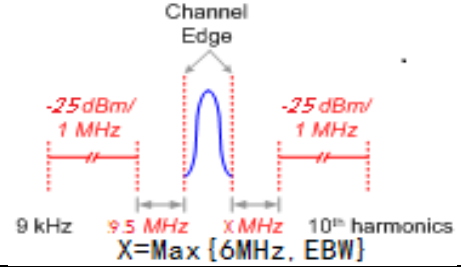
1.2 GSM 1900/UMTS Band 2 /LTE Band 2 /25

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §24.232(c)	$EIRP \leq 2\text{ W}$	Refer to the Appendixs	Pass
Peak-Average Ratio	§24.232(d)	Limit $\leq 13\text{ dB}$		Reference report SUCR250300025501
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §24.238(a)	$\leq -13\text{ dBm}/1\% \cdot \text{EBW}$, in 1 MHz bands immediately outside and adjacent to the frequency block.		
Spurious Emission at Antenna Terminals	§2.1051, §24.238(a)	$\leq -13\text{ dBm}/1\text{ MHz}$, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.		
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	$\leq -13\text{ dBm}/1\text{ MHz}$.		
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §24.235	Within authorized bands of operation/frequency block.		

1.3 UMTS Band 4 /LTE Band 4 /66

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(d)(4)	$EIRP \leq 1\text{ W}$	Refer to the Appendixs	Pass
Peak-Average Ratio	§27.50(d)(5)	Limit $\leq 13\text{ dB}$		Reference report SUCR250300025501
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §27.53(h)	$\leq -13\text{ dBm}/1\% \cdot \text{EBW}$, in 1 MHz bands immediately outside and adjacent to the frequency block.		
Spurious Emission at Antenna Terminals	§2.1051, §27.53(h)	$\leq -13\text{ dBm}/1\text{ MHz}$, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.		
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	$\leq -13\text{ dBm}/1\text{ MHz}$.		
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	Within authorized bands of operation/frequency block.		

1.4 LTE Band 7/38/41

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(h)(2)	EIRP ≤ 2W	Refer to the Appendixs	Pass
Peak-Average Ratio	---	≤13 dB		Reference report SUCR250300025501
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §27.53(m)(4)	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.		
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)			
Field Strength of Spurious Radiation	§2.1053, §27.53(m)			
Frequency Stability	§2.1055(a) (1)(b) §2.1055 (d) (2) §27.54	Within authorized bands of operation/frequency block.		

1.5 LTE Band 12/17

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	ERP ≤ 3 W.	Refer to the Appendixs	Pass
Peak-Average Ratio	---	Limit≤13 dB		Reference report SUCR250300025501
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §27.53(g)	≤ 43+10log10(P[Watts])		
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	≤ 43+10log10(P[Watts])		
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	FCC: ≤ -13 dBm/100 kHz.		
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	Within authorized bands of operation/frequency block.		

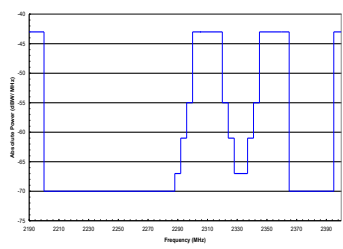
1.6 LTE Band 13

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(b)(10)	ERP ≤ 3 W.	Refer to the Appendixs	Pass
Peak-Average Ratio	---	Limit≤13 dB		Reference report SUCR250300025501
Bandwidth	§2.1049,	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §27.53(c)	≤ 43+10log10(P[Watts])		
Spurious Emission at Antenna Terminals	§2.1051, §27.53(c) §27.53(f)	≤ -13 dBm/100 kHz, from 9 kHz to 10 th 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.		
Field Strength of Spurious Radiation	§2.1053, §27.53(c) §27.53(f)	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.		
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	Within authorized bands of operation/frequency block.		

1.7 LTE Band 26(814~824 MHz)

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Transmitter Conducted Power Output	§2.1046, §90.635(b)	< 100 W.	Refer to the Appendixs	Pass
Peak-Average Ratio	---	Limit≤13 dB		Reference report SUCR250300025501
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
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.		
Spurious Emission at Antenna Terminals	§2.1051, §90.691	< $43 + 10\log_{10}(P[\text{Watts}])$ for all out-of-band emissions		
Field Strength of Spurious Radiation	§2.1053, §90.691	< $43 + 10\log_{10}(P[\text{Watts}])$ for all out-of-band emissions		
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §90.213	Within authorized bands of operation/frequency block.		

1.8 LTE Band 30

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(a)(3)	EIRP $\leq$ 50mW/1MHz EIRP $\leq$ 250mW/5MHz		Pass
Peak-Average Ratio	---	FCC: Limits $\leq$ 13 dB		
Bandwidth	§2.1049,	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §27.53(a)(4)	$\leq$ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.		
Spurious Emission at Antenna Terminals	§2.1051, §27.53(a)(4)	Figure 1: Unwanted Emissions for Mobile, Portable, and Low Power Fixed Subscriber Equipment  For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands: (i) By a factor of not less than: $43 + 10 \log (P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log (P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log (P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log (P)$ dB on all frequencies between 2328 and 2337 MHz; (ii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log (P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log (P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log (P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log (P)$	Refer to the Appendixs	Reference report SUCR250300025501



		dB below 2288 MHz;(iii) By a factor of not less than $43 + 10 \log (P)$ dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log (P)$ dB above 2365 MHz.		
Field Strength of Spurious Radiation	§2.1053, §27.53(a)(4)	$\leq -40\text{dBm/MHz}$.		
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	within the range of the operating frequency blocks		

1.9 LTE Band 71

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	$ERP \leq 3 \text{ W}$	Refer to the Appendixs	Pass
Peak-Average Ratio	---	Limits $\leq 13 \text{ dB}$		Reference report SUCR250300025501
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §27.53(g)	$\leq 43 + 10 \log_{10}(P[\text{Watts}])$		
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	$\leq 43 + 10 \log_{10}(P[\text{Watts}])$		
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	$\leq -13 \text{ dBm/1 MHz.}$		
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	within the authorized bands of operation.		

Remark:

This test report (Report No.: SUCR260300017702 issue on 2026-03-31) is based on the original test report (Report No.: SUCR250300025501 issue on 2025-06-11).

Review this report and original report, this report just changing the parts according to the declaration letter from client.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report only power is performed, and other test data in this report are refer to the previous report with report number SUCR250300025501 issue on 2025-06-11.

2 General Information

2.1 Details of Client

Applicant:	Shanghai Sunmi Technology Co.,Ltd.
Address of Applicant:	Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China
Manufacturer:	Shanghai Sunmi Technology Co.,Ltd.
Address of Manufacturer:	Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China

2.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Levi Li

2.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• **A2LA (Certificate No. 6336.01)**

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. is accredited by the American Association for Laboratory Accreditation (A2LA).

• **FCC (Designation Number: CN1312)**

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. has been recognized as an accredited testing laboratory.

Test Firm Registration Number: 717327

• **ISED (CAB Identifier: CN0120)**

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 27594

2.4 General Description of EUT

Power Supply:	3.87V from battery		
Antenna Type:	☐ External, ☒ Integrated		
Antenna Gain:	GSM850:	-4.10dBi	GSM1900: 1.20dBi
	WCDMA Band II:	1.20dBi	WCDMA Band IV: 0.50dBi
	WCDMA Band V:	-4.10dBi	
	LTE Band 2:	1.20dBi	LTE Band 4: 0.50dBi
	LTE Band 5:	-4.10dBi	LTE Band 7: 4.50dBi
	LTE Band 12:	-0.90dBi	LTE Band 13: -5.50dBi
	LTE Band 17:	-0.90dBi	LTE Band 25: 1.20dBi
	LTE Band 26:	-4.10dBi	LTE Band 30: 0.80dBi
	LTE Band 38:	6.0dBi	LTE Band 41: 6.0dBi
	LTE Band 66:	2.20dBi	LTE Band 71: -7.50dBi
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.		
RF Cable:	0.8dB(Below 1GHz)	1.0dB(1.0~2.4GHz)	1.2dB(2.4~3.4GHz)
	1.5dB(Above 3.4GHz)		
Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.			

2.5 Test Mode

Test Mode	Test Modes Description
GSM/TM1	GSM system, GSM/GPRS, GMSK modulation
GSM/TM2	GSM system, EGPRS, 8PSK modulation
UMTS/TM1	UMTS system, WCDMA, QPSK modulation
LTE/TM1	LTE system, QPSK modulation
LTE/TM2	LTE system, 16QAM modulation
Remark: The test mode(s) are selected according to relevant radio technology specifications.	

2.6 Test Environment

Environment Parameter	102 kPa Selected Values During Tests	
Relative Humidity	44 % RH Ambient	
Value	Temperature(°C)	Voltage(V)
NTNV	23	3.87
LTLV	-10	3.5
LTHV	-10	4.4
HTLV	55	3.5
HTHV	55	4.4
Remark:		
NV: Normal Voltage	LV: Low Extreme Test Voltage	HV: High Extreme Test Voltage
NT: Normal Temperature	LT: Low Extreme Test Temperature	HT: High Extreme Test Temperature

2.7 Description of Support Units

The EUT has been tested as an independent unit.

2.8 Technical Specification

Characteristics	Description				
Radio System Type	☒ GSM	☒ UMTS		☒ LTE	
Supported Frequency Range	Band	TX		RX	
	GSM850	824 to 849 MHz		869 to 894 MHz	
	GSM1900	1850 to 1910 MHz		1930 to 1990 MHz	
	UMTS Band II	1850 to 1910 MHz		1930 to 1990 MHz	
	UMTS Band IV	1710 to 1755 MHz		2110 to 2155 MHz	
	UMTS Band V	824 to 849 MHz		869 to 894 MHz	
	LTE Band 2	1850 to 1910 MHz		1930 to 1990 MHz	
	LTE Band 4	1710 to 1755 MHz		2110 to 2155 MHz	
	LTE Band 5	824 to 849 MHz		869 to 894 MHz	
	LTE Band 7	2500 to 2570 MHz		2620 to 2690 MHz	
	LTE Band 12	699 to 716 MHz		729 to 746 MHz	
	LTE Band 13	777 to 787 MHz		746 to 756 MHz	
	LTE Band 17	704 to 716 MHz		734 to 746 MHz	
	LTE Band 25	1850 to 1915MHz		1930 to 1995 MHz	
	LTE Band 26 (814 to 824 MHz)	814 to 824MHz		859 to 869 MHz	
	LTE Band 26 (824 to 849 MHz)	824 to 849 MHz		869 to 894 MHz	
	LTE Band 30	2305 to 2315 MHz		2350 to 2360 MHz	
	LTE Band 38	2570 to 2620 MHz		2570 to 2620 MHz	
	LTE Band 41	2496 to 2690MHz		2496 to 2690MHz	
	LTE Band 66	1710 to 1780 MHz		2110 to 2180 MHz	
	LTE Band 71	663 to 698 MHz		617 to 652 MHz	
Supported Channel Bandwidth	GSM system:	☒ 0.2 MHz			
	UMTS system:	☒ 5 MHz			
	LTE Band 2	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz	☒ 10 MHz
		☒ 15 MHz	☒ 20 MHz		
	LTE Band 4	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz	☒ 10 MHz
		☒ 15 MHz	☒ 20 MHz		
	LTE Band 5	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz	☒ 10 MHz
	LTE Band 7	☒ 5 MHz	☒ 10 MHz	☒ 15 MHz	☒ 20 MHz
	LTE Band 12	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz	☒ 10 MHz
	LTE Band 13	☒ 5 MHz	☒ 10 MHz		
LTE Band 17	☒ 5 MHz	☒ 10 MHz			

	LTE Band 25	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz	☒ 10 MHz
		☒ 15 MHz	☒ 20 MHz		
	LTE Band 26(814-824)	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz	☒ 10 MHz
	LTE Band 26(824-849)	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz	☒ 10 MHz
		☒ 15 MHz			
	LTE Band30	☒ 5 MHz	☒ 10 MHz		
	LTE Band38	☒ 5 MHz	☒ 10 MHz	☒ 15 MHz	☒ 20 MHz
	LTE Band41	☒ 5 MHz	☒ 10 MHz	☒ 15 MHz	☒ 20 MHz
	LTE Band66	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz	☒ 10 MHz
		☒ 15MHz	☒ 20MHz		
	LTE Band71	☒ 5MHz	☒ 10MHz	☒ 15MHz	☒ 20MHz
Note: WCDMA supports HSUPA, HSDPA, DC-HSDPA, but only the worst case was tested and the data displayed in this report.					

2.9 Test Frequencies

Test Mode	TX / RX	RF Channel		
		Low (L)	Middle (M)	High (H)
GSM850	TX	Channel 128	Channel 190	Channel 251
		824.2MHz	836.6 MHz	848.8 MHz
	RX	Channel 128	Channel 190	Channel 251
		869.2 MHz	881.6 MHz	893.8 MHz

Test Mode	TX / RX	RF Channel		
		Low (L)	Middle (M)	High (H)
GSM1900	TX	Channel 512	Channel 661	Channel 810
		1850.2MHz	1880.0 MHz	1909.8 MHz
	RX	Channel 512	Channel 661	Channel 810
		1930.2 MHz	1960.0 MHz	1989.8 MHz

Test Mode	TX / RX	RF Channel		
		Low (L)	Middle (M)	High (H)
WCDMA Band II	TX	Channel 9262	Channel 9400	Channel 9538
		1852.4 MHz	1880.0 MHz	1907.6 MHz
	RX	Channel 9662	Channel 9800	Channel 9938
		1932.4 MHz	1960.0 MHz	1987.6 MHz

Test Mode	TX / RX	RF Channel		
		Low (L)	Middle (M)	High (H)
WCDMA Band IV	TX	Channel 1312	Channel 1413	Channel 1513
		1712.4MHz	1732.6 MHz	1752.6 MHz
	RX	Channel 1537	Channel 1638	Channel 1738
		2112.4 MHz	2132.6 MHz	2152.6 MHz

Test Mode	TX / RX	RF Channel		
		Low (L)	Middle (M)	High (H)
WCDMA Band V	TX	Channel 4132	Channel 4182	Channel 4233
		826.4MHz	836.4 MHz	846.6 MHz
	RX	Channel 4357	Channel 4407	Channel 4458
		871.4 MHz	881.4 MHz	891.6 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 2	1.4MHz	TX	Channel 18607	Channel 18900	Channel 19193
			1850.7 MHz	1880 MHz	1909.3 MHz
		RX	Channel 607	Channel 900	Channel 1193
			1930.7 MHz	1960 MHz	1989.3 MHz
	3MHz	TX	Channel 18615	Channel 18900	Channel 19185
			1851.5 MHz	1880 MHz	1908.5 MHz
		RX	Channel 615	Channel 900	Channel 1185
			1931.5 MHz	1960 MHz	1988.5 MHz
	5MHz	TX	Channel 18625	Channel 18900	Channel 19175
			1852.5 MHz	1880 MHz	1907.5 MHz
		RX	Channel 625	Channel 900	Channel 1175
			1932.5 MHz	1960 MHz	1987.5 MHz
	10MHz	TX	Channel 18650	Channel 18900	Channel 19150
			1855 MHz	1880 MHz	1905 MHz
		RX	Channel 650	Channel 900	Channel 1150
			1935 MHz	1960 MHz	1985 MHz
	15MHz	TX	Channel 18675	Channel 18900	Channel 19125
			1857.5 MHz	1880 MHz	1902.5 MHz
		RX	Channel 675	Channel 900	Channel 1125
			1937.5 MHz	1960 MHz	1982.5 MHz
	20MHz	TX	Channel 18700	Channel 18900	Channel 19100
			1860 MHz	1880 MHz	1900 MHz
		RX	Channel 700	Channel 900	Channel 1100
			1940 MHz	1960 MHz	1980 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 4	1.4MHz	TX	Channel 19957 1710.7 MHz	Channel 20175 1732.5 MHz	Channel 20393 1754.3 MHz
		RX	Channel 1957 2110.7 MHz	Channel 2175 2132.5MHz	Channel 2393 2154.3 MHz
	3MHz	TX	Channel 19965 1711.5 MHz	Channel 20175 1732.5 MHz	Channel 20385 1753.5 MHz
		RX	Channel 1965 2111.5 MHz	Channel 2175 2132.5MHz	Channel 2385 2153.5 MHz
	5MHz	TX	Channel 19975 1712.5 MHz	Channel 20175 1732.5 MHz	Channel 20375 1752.5 MHz
		RX	Channel 1975 2112.5 MHz	Channel 2175 2132.5MHz	Channel 2425 2157.5 MHz
	10MHz	TX	Channel 20000 1715 MHz	Channel 20175 1732.5 MHz	Channel 20350 1750 MHz
		RX	Channel 2000 2115 MHz	Channel 2175 2132.5MHz	Channel 2350 2150 MHz
	15MHz	TX	Channel 20025 1717.5 MHz	Channel 20175 1732.5 MHz	Channel 20325 1747.5 MHz
		RX	Channel 2025 2117.5 MHz	Channel 2175 2132.5MHz	Channel 2325 2147.5 MHz
	20MHz	TX	Channel 20050 1720 MHz	Channel 20175 1732.5 MHz	Channel 20300 1745 MHz
		RX	Channel 2050 2120 MHz	Channel 2175 2132.5MHz	Channel 2300 2145 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 5	1.4MHz	TX	Channel 20407 824.7 MHz	Channel 20525 836.5 MHz	Channel 20643 848.3 MHz
		RX	Channel 2407 869.7 MHz	Channel 2525 881.5 MHz	Channel 2643 893.3 MHz
	3MHz	TX	Channel 20415 825.5 MHz	Channel 20525 836.5 MHz	Channel 20635 847.5 MHz
		RX	Channel 2415 870.5 MHz	Channel 2525 881.5 MHz	Channel 2635 892.5 MHz
	5MHz	TX	Channel 20425 826.5 MHz	Channel 20525 836.5 MHz	Channel 20625 846.5 MHz
		RX	Channel 2425 871.5 MHz	Channel 2525 881.5 MHz	Channel 2625 891.5 MHz
	10MHz	TX	Channel 20450 829 MHz	Channel 20525 836.5 MHz	Channel 20600 844 MHz
		RX	Channel 2450 874 MHz	Channel 2525 881.5 MHz	Channel 2600 889 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 7	5MHz	TX	Channel 20775 2502.5 MHz	Channel 21100 2535 MHz	Channel 21425 2567.5 MHz
		RX	Channel 2775 2622.5 MHz	Channel 3100 2655 MHz	Channel 5825 2687.5 MHz
	10MHz	TX	Channel 20800 2505 MHz	Channel 21100 2535 MHz	Channel 21400 2565 MHz
		RX	Channel 2800 2625 MHz	Channel 3100 2655 MHz	Channel 3400 2685 MHz
	15MHz	TX	Channel 20825 2507.5 MHz	Channel 21100 2535 MHz	Channel 21375 2562.5 MHz
		RX	Channel 2825 2627.5 MHz	Channel 3100 2655 MHz	Channel 3375 2682.5 MHz
	20MHz	TX	Channel 20850 2510 MHz	Channel 21100 2535 MHz	Channel 21350 2560 MHz
		RX	Channel 2850 2630 MHz	Channel 3100 2655 MHz	Channel 3350 2680 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 12	1.4MHz	TX	Channel 23017 699.7 MHz	Channel 23095 707.5 MHz	Channel 23173 715.3 MHz
		RX	Channel 5017 729.7 MHz	Channel 5095 737.5 MHz	Channel 5173 745.3 MHz
	3MHz	TX	Channel 23025 700.5 MHz	Channel 23095 707.5 MHz	Channel 23165 714.5 MHz
		RX	Channel 5025 730.5 MHz	Channel 5095 737.5 MHz	Channel 5165 744.5 MHz
	5MHz	TX	Channel 23035 701.5 MHz	Channel 23095 707.5 MHz	Channel 23155 713.5 MHz
		RX	Channel 5035 731.5 MHz	Channel 5095 737.5 MHz	Channel 5155 743.5 MHz
	10MHz	TX	Channel 23060 704 MHz	Channel 23095 707.5 MHz	Channel 23130 711 MHz
		RX	Channel 5060 734 MHz	Channel 5095 737.5 MHz	Channel 5130 741 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 13	5MHz	TX	Channel 23205 779.5 MHz	Channel 23230 782 MHz	Channel 23255 784.5 MHz
		RX	Channel 5205 748.5 MHz	Channel 5230 751 MHz	Channel 5255 753.5 MHz
	10MHz	TX	Channel 23230 782 MHz	Channel 23230 782 MHz	Channel 23230 782 MHz
		RX	Channel 5230 751 MHz	Channel 5230 751 MHz	Channel 5230 751 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 17	5MHz	TX	Channel 23755 706.5 MHz	Channel 23790 710 MHz	Channel 23825 713.5 MHz
		RX	Channel 5755 736.5 MHz	Channel 5790 740 MHz	Channel 5825 743.5 MHz
	10MHz	TX	Channel 23780 709 MHz	Channel 23790 710 MHz	Channel 23800 711 MHz
		RX	Channel 5780 739 MHz	Channel 5790 740 MHz	Channel 5800 741 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 25	1.4MHz	TX	Channel 26047 1850.7 MHz	Channel 26365 1882.5 MHz	Channel 26683 1914.3 MHz
		RX	Channel 8047 1930.7 MHz	Channel 8365 1962.5 MHz	Channel 8683 1994.3 MHz
	3MHz	TX	Channel 26055 1851.5 MHz	Channel 26365 1882.5 MHz	Channel 26675 1913.5 MHz
		RX	Channel 8055 1931.5 MHz	Channel 8365 1962.5 MHz	Channel 8675 1993.5 MHz
	5MHz	TX	Channel 26065 1852.5 MHz	Channel 26365 1882.5 MHz	Channel 26665 1912.5 MHz
		RX	Channel 8065 1932.5 MHz	Channel 8365 1962.5 MHz	Channel 8665 1992.5 MHz
	10MHz	TX	Channel 26090 1855 MHz	Channel 26365 1882.5 MHz	Channel 26640 1910 MHz
		RX	Channel 8090 1935 MHz	Channel 8365 1962.5 MHz	Channel 8640 1990 MHz
	15MHz	TX	Channel 26115 1857.5 MHz	Channel 26365 1882.5 MHz	Channel 26615 1907.5 MHz
		RX	Channel 8115 1937.5 MHz	Channel 8365 1962.5 MHz	Channel 8615 1987.5 MHz
	20MHz	TX	Channel 26140 1860 MHz	Channel 26365 1882.5 MHz	Channel 26590 1905 MHz
		RX	Channel 8140 1940 MHz	Channel 8365 1962.5 MHz	Channel 8590 1985 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 26 (814-824)	1.4MHz	TX	Channel 26697	Channel 26740	Channel 26783
			814.7 MHz	819 MHz	823.3 MHz
		RX	Channel 8697	Channel 8740	Channel 8783
			859.7 MHz	864MHz	868.3 MHz
	3MHz	TX	Channel 26705	Channel 26740	Channel 26775
			815.5 MHz	819 MHz	822.5 MHz
		RX	Channel 8705	Channel 8740	Channel 8775
			860.5 MHz	864MHz	867.5 MHz
	5MHz	TX	Channel 26715	Channel 26740	Channel 26765
			816.5 MHz	819 MHz	821.5 MHz
		RX	Channel 8715	Channel 8740	Channel 8765
			861.5 MHz	864MHz	866.5 MHz
	10MHz	TX	Channel 26740	Channel 26740	Channel 26740
			819 MHz	819 MHz	819 MHz
		RX	Channel 8740	Channel 8740	Channel 8740
			864MHz	864MHz	864MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band26 (824-849)	1.4MHz	TX	Channel 26797	Channel 26915	Channel 27033
			824.7 MHz	836.5 MHz	848.3 MHz
		RX	Channel 8797	Channel 8915	Channel 9033
			869.7 MHz	881.5 MHz	893.3 MHz
	3MHz	TX	Channel 26805	Channel 26915	Channel 27025
			825.5 MHz	836.5 MHz	847.5 MHz
		RX	Channel 8805	Channel 8915	Channel 9025
			860.5 MHz	881.5 MHz	892.5 MHz
	5MHz	TX	Channel 26815	Channel 26915	Channel 27015
			826.5 MHz	836.5 MHz	846.5 MHz
		RX	Channel 8815	Channel 8915	Channel 9015
			871.5 MHz	881.5 MHz	891.5 MHz
	10MHz	TX	Channel 26840	Channel 26915	Channel 26990
			829 MHz	836.5 MHz	844 MHz
		RX	Channel 8840	Channel 8915	Channel 8990
			874 MHz	881.5 MHz	889 MHz
	15MHz	TX	Channel 26865	Channel 26915	Channel 26965
			831.5 MHz	836.5 MHz	841.5 MHz
		RX	Channel 8865	Channel 8915	Channel 8965
			876.5 MHz	881.5 MHz	886.5 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 30	5MHz	TX	Channel 27685	Channel27710	Channel 27735
			2307.5 MHz	2310MHz	2312.5 MHz
	10MHz	RX	Channel 9795	Channel 9820	Channel 9845
			2352.5MHz	2355 MHz	2357.5MHz
		TX	Channel 27710	Channel27710	Channel27710
			2310 MHz	2310MHz	2310MHz
		RX	Channel 9820	Channel 9820	Channel 9820
			2355 MHz	2355 MHz	2355 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 38	5MHz	TX/RX	Channel 37775	Channel38000	Channel 38225
			2572.5 MHz	2595 MHz	2617.5 MHz
	10MHz	TX/RX	Channel 37800	Channel38000	Channel 38200
			2575 MHz	2595 MHz	2615 MHz
	15MHz	TX/RX	Channel 37825	Channel38000	Channel 38175
			2577.5 MHz	2595 MHz	2612.5 MHz
	20MHz	TX/RX	Channel 37850	Channel38000	Channel 38150
			2580 MHz	2595 MHz	2610 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band 41 (2496-2690)	5MHz	TX / RX	Channel 39675	Channel40620	Channel 41565
			2498.5 MHz	2593 MHz	2687.5 MHz
	10MHz	TX / RX	Channel 39700	Channel40620	Channel 41540
			2501 MHz	2593 MHz	2685 MHz
	15MHz	TX / RX	Channel 39725	Channel40620	Channel 41515
			2503.5 MHz	2593 MHz	2682.5 MHz
	20MHz	TX / RX	Channel 39750	Channel40620	Channel 41490
			2506 MHz	2593 MHz	2680 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band66	1.4MHz	TX	Channel 131979	Channel 132322	Channel 132665
			1710.7 MHz	1745 MHz	1779.3 MHz
		RX	Channel 66443	Channel 66786	Channel 67129
			2110.7 MHz	2145MHz	2179.3 MHz
	3MHz	TX	Channel 131987	Channel 132322	Channel 132657
			1711.5 MHz	1745 MHz	1778.5MHz
		RX	Channel 66451	Channel 66786	Channel 67121
			2111.5 MHz	2145MHz	2178.5MHz
	5MHz	TX	Channel 131997	Channel 132322	Channel 132647
			1712.5 MHz	1745 MHz	1777.5 MHz
		RX	Channel 66461	Channel 66786	Channel 67111
			2112.5 MHz	2145MHz	2177.5 MHz
	10MHz	TX	Channel 132022	Channel 132322	Channel 132622
			1715 MHz	1745 MHz	1775 MHz
		RX	Channel 66486	Channel 66786	Channel 67086
			2115 MHz	2145MHz	2175 MHz
	15MHz	TX	Channel 132047	Channel 132322	Channel 132597
			1717.5 MHz	1745 MHz	1772.5 MHz
		RX	Channel 66511	Channel 66786	Channel 67061
			2117.5 MHz	2145MHz	2172.5 MHz
	20MHz	TX	Channel 132072	Channel 132322	Channel 132572
			1720 MHz	1745 MHz	1770 MHz
		RX	Channel 66536	Channel 66786	Channel 67036
			2120 MHz	2145MHz	2170 MHz

Test Mode	Bandwidth	TX / RX	RF Channel		
			Low (L)	Middle (M)	High (H)
LTE Band71	5MHz	TX	Channel 133147	Channel 133297	Channel 133447
			665.5 MHz	680.5 MHz	695.5 MHz
		RX	Channel 68611	Channel 68761	Channel 68911
			619.5 MHz	634.5 MHz	649.5 MHz
	10MHz	TX	Channel 133172	Channel 133297	Channel 133422
			668 MHz	680.5 MHz	693 MHz
		RX	Channel 68636	Channel 68761	Channel 68886
			622 MHz	634.5 MHz	647 MHz
	15MHz	TX	Channel 133197	Channel 133297	Channel 133397
			670.5 MHz	680.5 MHz	690.5 MHz
		RX	Channel 68661	Channel 68761	Channel 68861
			624.5 MHz	634.5 MHz	644.5 MHz
	20MHz	TX	Channel 133222	Channel 133297	Channel 133372
			673 MHz	680.5 MHz	688 MHz
		RX	Channel 68686	Channel 68761	Channel 68836
			627 MHz	634.5 MHz	642 MHz

3 Main Test Instruments

RF Conducted Test						
1	Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2026/1/14	2027/1/13
2	Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-15	2025/11/21	2026/11/20
3	MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2026/1/14	2027/1/13
4	Signal Generator	ROHDE&SCHWARZ	SMW200A	SUWI-01-07-08	2026/1/14	2027/1/13
5	Signal Generator	ROHDE&SCHWARZ	SMW100A	SUWI-01-08-01	2026/1/14	2027/1/13
6	MXG Vector Signal Generator	ROHDE&SCHWARZ	SMR20	SUWI-01-33-01	2025/11/21	2026/11/20
7	Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-13	2025/5/8	2026/5/7
8	Wideband Radio Communication Test Ststion	Anritsu	MT8000A	SUWI-01-34-02	2025/11/21	2026/11/20
9	Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	2025/11/21	2026/11/20
10	Power meter	Anritsu	ML2495A	SUWI-01-31-01	2025/11/21	2026/11/20
11	Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2025/11/21	2026/11/20
12	DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2026/1/14	2027/1/13
13	Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2026/2/11	2027/2/10
14	Temperature Chamber	GIANT FORCE	ICT-017-40-SP-SD	SUWI-01-13-02	2025/5/7	2026/5/6
15	Measurement Software	TST	TST 272 V2.02	SUWI-03-55-03	NCR	NCR
16	RF Control unit	TST	TSCB3023R2	SUWI-02-20-01	NCR	NCR
17	RFCables	Tonscend	NA	SUWI-01-03-01	NCR	NCR

Remark: NCR=No Calibration Requirement.

4 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:

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	$\pm 0.54\text{dB}$
Remark: The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.		

5 Description of Tests

5.1 Conducted Output Power

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.2.1

The transmitter output was connected to a calibrated coaxial cable and power meter, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The power output at the transmitter antenna port was determined by adding the value of the cable insertion loss to the power reading. The tests were performed at three frequencies (low channel, middle channel and high channel) and on the highest power levels, which can be setup on the transmitters.

Remark: Reference test setup 1

5.2 Effective (Isotropic) Radiated Power of Transmitter

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.8.4

Calculate power in dBm by the following formula:

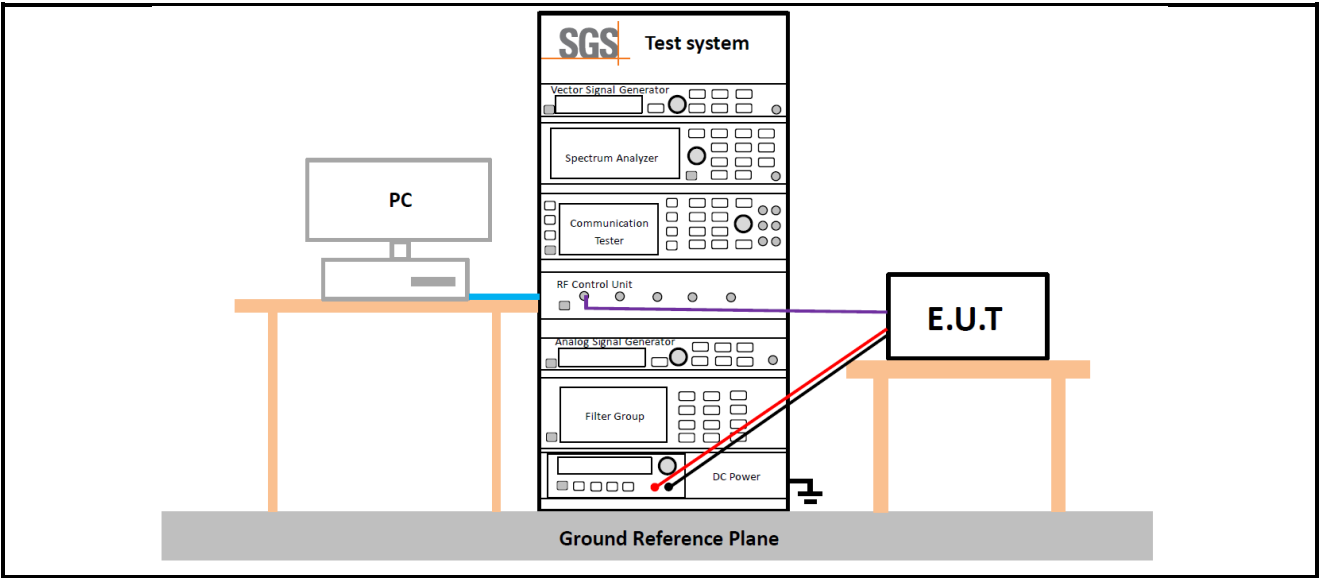
$ERP\ (dBm) = \text{Conducted Power}\ (dBm) + \text{antenna gain}\ (dBd)$

$EIRP(dBm) = \text{Conducted Power}\ (dBm) + \text{antenna gain}\ (dBi)$

$EIRP=ERP+2.15dB$

5.3 Test Setups

5.3.1 Test Setup 1



5.4 Test Conditions

Transmit Output Power Data - Average Power, Spectral Density	
Test Case	Test Conditions
Test Environment	Ambient Climate & Rated Voltage
Test Setup	Test Setup 1
RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)
Test Mode	GSM/TM1;GSM/TM2;UMTS/TM1; LTE/TM1;LTE/TM2;

6 Appendixes

Appendix	Test Setup Photo for SUCR2603000177TL
Appendix A.1	GSM 850
Appendix A.2	GSM 1900
Appendix A.3	WCDMA Band II
Appendix A.4	WCDMA Band IV
Appendix A.5	WCDMA Band V
Appendix A.6	LTE Band 2
Appendix A.7	LTE Band 4
Appendix A.8	LTE Band 5
Appendix A.9	LTE Band 7
Appendix A.10	LTE Band 12
Appendix A.11	LTE Band 13
Appendix A.12	LTE Band 17
Appendix A.13	LTE Band 25
Appendix A.14	LTE Band 26(814-824)
Appendix A.15	LTE Band 26(824-849)
Appendix A.16	LTE Band 30
Appendix A.17	LTE Band 38
Appendix A.18	LTE Band 41
Appendix A.19	LTE Band 66
Appendix A.20	LTE Band 71

---End of Report---