

## TEST REPORT

**Application No.:** SUCR2504000320WM  
**Applicant:** COOSEA GROUP (HK) COMPANY LIMITED  
**Address of Applicant:** UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL  
**Manufacturer:** COOSEA GROUP (HK) COMPANY LIMITED  
**Address of Manufacturer:** UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL  
**EUT Description:** Smart Phone  
**Model No.:** SN333A, SN333C -----♣  
♣ Please refer to section 2.4 of this report which indicates which model was actually tested and which were electrically identical.  
**FCC ID:** 2A28USN333  
**Standards:** 47 CFR Part 2  
47 CFR Part 22  
47 CFR Part 24  
47 CFR Part 27  
**Date of Receipt:** April 15, 2025  
**Date of Test:** April 22, 2025 to May 6, 2025  
**Date of Issue:** May 29, 2025

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

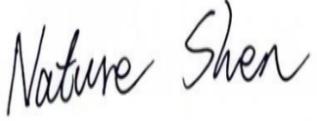
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**Version**

<i>Revision Record</i>			
<i>Version</i>	<i>Description</i>	<i>Date</i>	<i>Remark</i>
01	Original	May 29, 2025	/

Authorized for issue by:				
Tested By				
		<b>Nature Shen / Project Manager</b>		
Approved By				
		<b>Cloud Peng/Technical Manager</b>		

## Content

<b>Version.....</b>	<b>2</b>
<b>1 Test Summary.....</b>	<b>5</b>
1.1 NR Band n5.....	5
1.2 NR Band n2.....	6
1.3 NR Band n30.....	7
1.4 NR Band n66.....	9
1.5 NR Band n77.....	10
<b>2 General Information.....</b>	<b>12</b>
2.1 Client Information .....	12
2.2 Test Location .....	12
2.3 Test Facility .....	12
2.4 General Description of EUT.....	13
2.5 Test Mode .....	14
2.6 Test Environment .....	14
2.7 Description of Support Units.....	14
2.8 Technical Specification .....	15
2.9 Test Frequencies.....	16
2.9.1 Reference test frequencies for NR operating band n2 .....	16
2.9.2 Reference test frequencies for NR operating band n5.....	17
2.9.3 Reference test frequencies for NR operating band n30.....	18
2.9.4 Reference test frequencies for NR operating band n66.....	19
2.9.5 Reference test frequencies for NR operating band n77.....	20
<b>3 Description of Tests .....</b>	<b>22</b>
3.1 Conducted Output Power .....	22
3.2 Effective (Isotropic) Radiated Power of Transmitter .....	23
3.3 EIRP Power Density .....	24
3.4 Occupied Bandwidth.....	25
3.5 Band Edge at Antenna Terminals.....	26
3.6 Spurious And Harmonic Emissions at Antenna Terminal .....	27

# SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400032003  
Rev.: 01  
Page: 4 of 38

3.7	Peak-Average Ratio .....	28
3.8	Field Strength of Spurious Radiation.....	29
3.9	Frequency Stability / Temperature Variation .....	30
3.10	Test Setups .....	31
3.10.1	<i>Test Setup 1</i> .....	31
3.10.2	<i>Test Setup 2</i> .....	31
3.10.3	<i>Test Setup 3</i> .....	32
3.11	Test Conditions.....	33
<b>4</b>	<b>Main Test Instruments</b> .....	<b>35</b>
<b>5</b>	<b>Measurement Uncertainty</b> .....	<b>37</b>
<b>6</b>	<b>Appendices</b> .....	<b>38</b>

## 1 Test Summary

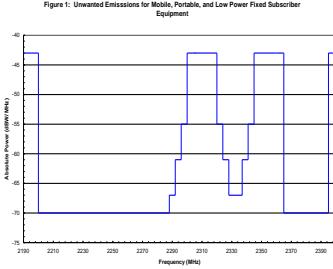
### 1.1 NR Band n5

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913(a)(5)	FCC: ERP ≤ 7 W	Section 1 of Appendix B.17	Pass
Peak-Average Ratio	§22.913(d)	Limit≤13 dB	Section 4 of Appendix B.17	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.17	Pass
Band Edges Compliance	§2.1051, §22.917(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix B.17	Pass
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.	Section 5 of Appendix B.17	Pass
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	FCC: ≤ -13 dBm/100 kHz.	Section 6 of Appendix B.17	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §22.355	±2.5ppm.	Section 2 of Appendix B.17	Pass

**1.2 NR Band n2**

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §24.232(c)	EIRP ≤ 2 W	Section 1 of Appendix B.16	Pass
Peak-Average Ratio	§24.232(d)	Limit≤13 dB	Section 4 of Appendix B.16	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.16	Pass
Band Edges Compliance	§2.1051, §24.238(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix B.16	Pass
Spurious Emission at Antenna Terminals	§2.1051, §24.238(a)	≤ -13 dBm/1 MHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges.	Section 5 of Appendix B.16	Pass
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	≤ -13 dBm/1 MHz.	Section 6 of Appendix B.16	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §24.235	Within authorized bands of operation/frequency block.	Section 2 of Appendix B.16	Pass

### 1.3 NR Band n30

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	Section 1 of Appendix B.18	Pass
Peak-Average Ratio	---	FCC: Limit $\leq$ 13 dB	Section 4 of Appendix B.18	Pass
Bandwidth	§2.1049,	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.18	Pass
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.	Section 5 of Appendix B.18	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(a)(4)	<p>Figure 1: Unwanted Emissions for Mobile, Portable, and Low Power Fixed Subscriber Equipment</p>  <p>For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands:</p> <p>(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;</p> <p>(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</p>	Section 5 of Appendix B.18	Pass

**SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.**

Report No.: SUCR250400032003

Rev.: 01

Page: 8 of 38

		70 + 10 log (P) 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)	≤ -40dBm/MHz.	Section 6 of Appendix B.18	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	within the range of the operating frequency blocks	Section 2 of Appendix B.18	Pass

**1.4 NR Band n66**

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(d)(4)	EIRP ≤ 1 W	Section 1 of Appendix B.19	Pass
Peak-Average Ratio	§27.50(d)(5)	Limit≤13 dB	Section 4 of Appendix B.19	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.19	Pass
Band Edges Compliance	§2.1051, §27.53(h)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix B.19	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(h)	≤ -13 dBm/1 MHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges.	Section 5 of Appendix B.19	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	≤ -13 dBm/1 MHz.	Section 6 of Appendix B.19	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	Within authorized bands of operation/frequency block.	Section 2 of Appendix B.19	Pass

**1.5 NR Band n77****3700-3980MHz:**

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(j)(3)	EIRP ≤ 1W	Section 1 of Appendix B.21	Pass
Peak-Average Ratio	---	≤13 dB	Section 4 of Appendix B.21	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.21	Pass
Band Edges Compliance	§2.1051, §27.53(l)(2)	(2) For mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz.	Section 5 of Appendix B.21	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(l)(2)	not exceed -13 dBm/MHz.	Section 5 of Appendix B.21	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(l)(2)	not exceed -13 dBm/MHz	Section 6 of Appendix B.21	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	Within authorized bands of operation/frequency block.	Section 2 of Appendix B.21	Pass

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Report No.: SUCR250400032003  
Rev.: 01  
Page: 11 of 38

**3450-3550MHz:**

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(k)(3)	EIRP ≤ 30dBm	Section 1 of Appendix B.20	Pass
Peak-Average Ratio	§27.50(k)(4)	FCC: Limit≤13 dB	Section 4 of Appendix B.20	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.20	Pass
Band Edges Compliance	§2.1051, §27.50(n)(2)	For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.	Section 5 of Appendix B.20	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.50(n)(2)	For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.	Section 5 of Appendix B.20	Pass
Field Strength of Spurious Radiation	§2.1053, §27.50(n)(2)	For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz.	Section 6 of Appendix B.20	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	Within authorized bands of operation/ frequency block.	Section 2 of Appendix B.20	Pass

# SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SUCR250400032003  
Rev.: 01  
Page: 12 of 38

## 2 General Information

### 2.1 Client Information

Applicant:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Applicant:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL
Manufacturer:	COOSEA GROUP (HK) COMPANY LIMITED
Address of Manufacturer:	UNIT 5-6 16/F MULTIFIELD PLAZA 3-7A PRAT AVENUE TSIMSHATSUI KL

### 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, Tizzy Song

### 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). Certificate No. 6336.01.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

- **FCC –Designation Number: CN1312**

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327

## 2.4 General Description of EUT

EUT Description:	Smart Phone					
Model No.:	SN333A, SN333C					
Hardware Version:	1.0					
Software Version:	SN333A10008					
IMEI:	RF Conducted	357772740004523				
	RSE	355006370004887				
HPUE Power Class:	Class 2: NR Band n77;					
Antenna Type:	<input type="checkbox"/> External, <input checked="" type="checkbox"/> Integrated					
Antenna Gain	NR Band n2:	0.60dBi(Ant1) -1.60dBi(Ant3)	NR Band n5:	-3.10dBi(Ant0)		
	NR Band n30:	-1.20dBi(Ant1) -2.30dBi(Ant3)	NR Band n66:	-0.20dBi(Ant1) -1.00dBi(Ant3)		
	NR Band n77:	1.40dBi(Ant4)				
	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:						
1. Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.						
2. The two models named SN333A, SN333C are the same product except that their model names are different for different market segments.						
3. All antennas of Conduction Power & EIRP & RSE are tested, and only the worst data is presented.						

## 2.5 Test Mode

Test Mode	Test Modes Description
NR/TM1	NR system, DFT-s-Pi/2-BPSK modulation
NR/TM2	NR system, DFT-s-QPSK modulation
NR/TM3	NR system, DFT-s-16QAM modulation
NR/TM4	NR system, DFT-s-64QAM modulation
NR/TM5	NR system, DFT-s-256QAM modulation
NR/TM6	NR system, CP-QPSK modulation
NR/TM7	NR system, CP-16QAM modulation
NR/TM8	NR system, CP-64QAM modulation
NR/TM9	NR system, CP-256QAM modulation

Remark: The test mode(s) are selected according to relevant radio technology specifications.

## 2.6 Test Environment

Environment Parameter	101 kPa Selected Values During Tests	
Relative Humidity	44-46 % RH Ambient	
Value	Temperature (°C)	Voltage(V)
NTNV	22~23	3.8
LTLV	-10	3.6
LTHV	-10	4.4
HTLV	55	3.6
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	<input checked="" type="checkbox"/> SA <input checked="" type="checkbox"/> NSA			
Supported Frequency Range	Band	TX	RX	
	NR Band n2	1850 to 1910 MHz	1930 to 1990 MHz	
	NR Band n5	824 to 849 MHz	869 to 894 MHz	
	NR Band n30	2305 to 2315 MHz	2350 to 2360 MHz	
	NR Band n66	1710 to 1780 MHz	2110 to 2200 MHz	
	NR Band n77*	3700 to 3980 MHz	3700 to 3980 MHz	
		3450 to 3550 MHz	3450 to 3550 MHz	
Supported Channel Bandwidth	ENDC DC_5A_n2A;DC_12A_n2A;DC_14A_n2A;DC_30A_n2A;DC_30A_n2A; DC_2A_n5A;DC_30A_n5A;DC_66A_n5A;DC_2A_n30A;DC_5A_n30A; DC_12A_n30A;DC_14A_n30A;DC_66A_n30A;DC_2A_n66A;DC_5A_n66A; DC_12A_n66A;DC_14A_n66A;DC_30A_n66A;DC_2A_n77A;DC_5A_n77A; DC_30A_n77A;DC_66A_n77A;DC_12A_n77A;DC_14A_n77A;DC_66A_n66A; DC_2A_n2A			
	Remark: ENDC only test RSE, report only show worst mode.			
	NR Band n2	SCS 15kHz: <input checked="" type="checkbox"/> 5 MHz <input checked="" type="checkbox"/> 10 MHz <input checked="" type="checkbox"/> 15 MHz <input checked="" type="checkbox"/> 20 MHz		
		<input checked="" type="checkbox"/> 5 MHz <input checked="" type="checkbox"/> 10 MHz <input checked="" type="checkbox"/> 15 MHz <input checked="" type="checkbox"/> 20 MHz		
	NR Band n5	SCS 15kHz: <input checked="" type="checkbox"/> 5 MHz <input checked="" type="checkbox"/> 10 MHz <input checked="" type="checkbox"/> 15 MHz <input checked="" type="checkbox"/> 20 MHz		
		<input checked="" type="checkbox"/> 5 MHz <input checked="" type="checkbox"/> 10 MHz		
Supported Channel Bandwidth	NR Band n30	SCS 15kHz: <input checked="" type="checkbox"/> 5 MHz <input checked="" type="checkbox"/> 10 MHz		
		<input checked="" type="checkbox"/> 5 MHz <input checked="" type="checkbox"/> 10 MHz		
	NR Band n66	SCS 15kHz: <input checked="" type="checkbox"/> 5 MHz <input checked="" type="checkbox"/> 10 MHz <input checked="" type="checkbox"/> 15 MHz <input checked="" type="checkbox"/> 20 MHz		
		<input checked="" type="checkbox"/> 40 MHz		
	NR Band n77	SCS 15kHz: <input checked="" type="checkbox"/> 10 MHz <input checked="" type="checkbox"/> 15 MHz <input checked="" type="checkbox"/> 20 MHz <input checked="" type="checkbox"/> 40 MHz		
		<input checked="" type="checkbox"/> 50 MHz		
		SCS 30kHz		
		<input checked="" type="checkbox"/> 10 MHz <input checked="" type="checkbox"/> 15 MHz <input checked="" type="checkbox"/> 20 MHz <input checked="" type="checkbox"/> 40 MHz		
		<input checked="" type="checkbox"/> 50 MHz <input checked="" type="checkbox"/> 60 MHz <input checked="" type="checkbox"/> 80 MHz <input checked="" type="checkbox"/> 90 MHz		
<input checked="" type="checkbox"/> 100 MHz				
*Remark: The SCS 15kHz and 30kHz of all NR band are tested, but only showed the worst case in this report.				

## 2.9 Test Frequencies

### 2.9.1 Reference test frequencies for NR operating band n2

#### 2.9.1.1 Test frequencies for NR operating band n2 and SCS 15 kHz

CBW [MHz]	Range	Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
5	Downlink	Low	1932.5	386500
		Mid	1960	392000
		High	1987.5	397500
	Uplink	Low	1852.5	370500
		Mid	1880	376000
		High	1907.5	381500
10	Downlink	Low	1935	387000
		Mid	1960	392000
		High	1985	397000
	Uplink	Low	1855	371000
		Mid	1880	376000
		High	1905	381000
15	Downlink	Low	1937.5	387500
		Mid	1960	392000
		High	1982.5	396500
	Uplink	Low	1857.5	371500
		Mid	1880	376000
		High	1902.5	380500
20	Downlink	Low	1940	388000
		Mid	1960	392000
		High	1980	396000
	Uplink	Low	1860	372000
		Mid	1880	376000
		High	1900	380000

**2.9.2 Reference test frequencies for NR operating band n5**
**2.9.2.1 Test frequencies for NR operating band n5 and SCS 15 kHz**

CBW [MHz]	Range	Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
5	Downlink	Low	871.5	174300
		Mid	881.5	176300
		High	891.5	178300
	Uplink	Low	826.5	165300
		Mid	836.5	167300
		High	846.5	169300
10	Downlink	Low	874	174800
		Mid	881.5	176300
		High	889	177800
	Uplink	Low	829	165800
		Mid	836.5	167300
		High	844	168800
15	Downlink	Low	876.5	175300
		Mid	881.5	176300
		High	886.5	177300
	Uplink	Low	831.5	166300
		Mid	836.5	167300
		High	841.5	168300
20	Downlink	Low	879	175800
		Mid	881.5	176300
		High	884	176800
	Uplink	Low	834	166800
		Mid	836.5	167300
		High	839	167800

**2.9.3 Reference test frequencies for NR operating band n30****2.9.3.1 Test frequencies for NR operating band n30 and SCS 15 kHz**

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
5	Downlink	Low	2352.5	470500	15
		Mid	2355	471000	
		High	2357.5	471500	
	Uplink	Low	2307.5	461500	-
		Mid	2310	462000	
		High	2312.5	462500	
10	Downlink	Low	2355	471000	15
		Mid	2355	471000	
		High	2355	471000	
	Uplink	Low	2310	462000	-
		Mid	2310	462000	
		High	2310	462000	

**2.9.4 Reference test frequencies for NR operating band n66**
**2.9.4.1 Test frequencies for NR operating band n66 and SCS 15 kHz**

CBW [MHz]	Range	Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
5	Downlink	Low	2112.5	422500
		Mid	2155	431000
		High	2197.5	439500
	Uplink	Low	1712.5	342500
		Mid	1745	349000
		High	1777.5	355500
10	Downlink	Low	2115	423000
		Mid	2155	431000
		High	2195	439000
	Uplink	Low	1715	343000
		Mid	1745	349000
		High	1775	355000
15	Downlink	Low	2117.5	423500
		Mid	2155	431000
		High	2192.5	438500
	Uplink	Low	1717.5	343500
		Mid	1745	349000
		High	1772.5	354500
20	Downlink	Low	2120	424000
		Mid	2155	431000
		High	2190	438000
	Uplink	Low	1720	344000
		Mid	1745	349000
		High	1770	354000
40	Downlink	Low	2130	426000
		Mid	2155	431000
		High	2180	436000
	Uplink	Low	1730	346000
		Mid	1745	349000
		High	1760	352000

**2.9.5 Reference test frequencies for NR operating band n77**
**2.9.5.1 Test frequencies for NR operating band n77 and SCS 30 kHz**
**3700-3980:**

CBW [MHz]	Range	Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
10	Downlink & Uplink	Low	3705	647000
		Mid	3840	656000
		High	3975	665000
15	Downlink & Uplink	Low	3707.52	647168
		Mid	3840	656000
		High	3972.48	664832
20	Downlink & Uplink	Low	3710.01	647334
		Mid	3840	656000
		High	3969.99	664666
40	Downlink & Uplink	Low	3720	648000
		Mid	3840	656000
		High	3960	664000
50	Downlink & Uplink	Low	3725.01	648334
		Mid	3840	656000
		High	3954.99	663666
60	Downlink & Uplink	Low	3730.02	648668
		Mid	3840	656000
		High	3949.98	663332
80	Downlink & Uplink	Low	3740.01	649334
		Mid	3840	656000
		High	3939.99	662666
90	Downlink & Uplink	Low	3745.02	649668
		Mid	3840	656000
		High	3934.98	662332
100	Downlink & Uplink	Low	3750	650000
		Mid	3840	656000
		High	3930	662000

**3450-3550:**

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
10	Downlink & Uplink	Low	3455.01	630334	30
		Mid	3500.01	633334	
		High	3545.01	636334	
15	Downlink & Uplink	Low	3457.5	630500	30
		Mid	3500.01	633334	
		High	3542.49	636166	
20	Downlink & Uplink	Low	3460.02	630668	30
		Mid	3500.01	633334	
		High	3540	636000	
40	Downlink & Uplink	Low	3470.01	631334	30
		Mid	3500.01	633334	
		High	3530.01	635334	
50	Downlink & Uplink	Low	3475.02	631668	30
		Mid	3500.01	633334	
		High	3525	635000	
60	Downlink & Uplink	Low	3480	632000	30
		Mid	3500.01	633334	
		High	3519.99	634666	
80	Downlink & Uplink	Low	3490.02	632668	30
		Mid	3500.01	633334	
		High	3510	634000	
90	Downlink & Uplink	Low	3495	633000	30
		Mid	3500.01	633334	
		High	3504.99	633666	
100	Downlink & Uplink	Low	\	\	30
		Mid	3500.01	633334	
		High	\	\	

### 3 Description of Tests

#### 3.1 Conducted Output Power

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.2.1

The transmitter output was connected to a calibrated coaxial cable, attenuator 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**

### **3.2 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) = Conducted Power (dBm) + antenna gain (dBd)

EIRP(dBm) = Conducted Power (dBm) + antenna gain (dBi)

EIRP=ERP+2.15dB

### 3.3 EIRP Power Density

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.3

#### **Test Settings**

1. Set instrument center frequency to OBW center frequency.
2. Set span to at least 1.5 times the OBW.
3. Set the RBW to the specified reference bandwidth (often 1 MHz).
4. Set VBW  $\geq 3 \times$  RBW.
5. Detector = RMS (power averaging).
6. Ensure that the number of measurement points in the sweep  $\geq 2 \times$  span/RBW.
7. Sweep time = auto couple.
8. Employ trace averaging (RMS) mode over a minimum of 100 traces.
9. Use the peak marker function to determine the maximum amplitude level within the reference bandwidth (PSD).

### 3.4 Occupied Bandwidth

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 4.2 & 4.3

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. The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, 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 tests were performed at three frequencies (low channel, middle channel and high channel). The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1 percent of the selected span as is possible without being below 1 percent. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual. The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 percent of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded. The span between the two recorded frequencies is the occupied bandwidth.

#### Remark: Reference test setup 1

##### Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW  $\geq$  3 x RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

### 3.5 Band Edge at Antenna Terminals

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, 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 tests were performed at two frequencies (low channel and high channel).in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of 100kHz or 1% of the emission bandwidth of the fundamental emission of the transmitter may be employed. The EUT emission bandwidth is measured as the width of the signal between two points, outside of which all emission are attenuated at least 26dB below the transmitter power. The video bandwidth of the spectrum analyzer was set at thrice the resolution bandwidth. Detector Mode was set to peak or peak hold power.

#### **Remark: Reference test setup 1**

##### Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW  $\geq$  1% of the emission bandwidth
4. VBW  $\geq$  3 x RBW
5. Detector = RMS
6. Number of sweep points  $\geq$  2 x Span/RBW
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
8. Sweep time = auto couple
9. The trace was allowed to stabilize

### **3.6 Spurious And Harmonic Emissions at Antenna Terminal**

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyzer, 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 tests were performed at three frequencies (low channel and high channel). The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB. Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

**Remark: Reference test setup 1**

Test Settings

1. Start frequency was set to 9kHz and stop frequency was set to at least 10\* the fundamental frequency (Separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings

### 3.7 Peak-Average Ratio

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.7.2

A peak to average ratio measurement is performed at the conducted port of the EUT. For WCDMA signals, the spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level. For GSM signals, an average and a peak trace are used on a spectrum analyzer to determine the largest deviation between the average and the peak power of the EUT in a bandwidth greater than the emission bandwidth. The traces are generated with the spectrum analyzer set to zero span mode.

**Remark: Reference test setup 1**

**Test Settings**

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW > Emission bandwidth of signal
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

### 3.8 Field Strength of Spurious Radiation

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.8

**Below 1GHz test procedure as below:**

- 1). The EUT was powered ON and placed on a 80cm high table in the chamber. The antenna of the transmitter was extended to its maximum length.
- 2). The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 3). Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 4). Test the EUT in the lowest channel, the middle channel ,the Highest channel.
- 5). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 6). Repeat above procedures until all frequencies measured was complete.

$E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + (\text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)} - \text{AMP(dB)})$

$\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20 \log D - 104.8$ ; where D is the measurement distance in meters

**Above 1GHz test procedure as below:**

- 1) Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber
- 2) Calculate power in dBm by the following formula:  
 $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + (\text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)} - \text{AMP(dB)})$   
 $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20 \log D - 104.8$ ; where D is the measurement distance in meters
- 3). Test the EUT in the lowest channel, the middle channel the Highest channel
- 4). The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 5). Repeat above procedures until all frequencies measured was complete

Remark1: Reference test setup 2

Remark2: The emission below 18G were measured at a 3m test distance, while emissions above 18GHz were measured at a 1m test distance. At a measurement distance of 1 meter the limit line was increased by  $20 \times \log(3/1) = 9.54 \text{ dB}$ .

**Remark: Reference test setup 2**

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

$AF = \text{Antenna Factor(dB/m)}$

$\text{Factor} = \text{Cable Factor(dB)} - \text{Preamplifier (dB)}$

$\text{Level} = \text{Reading Level} + AF + \text{Factor} - 95.26$

$\text{Margin} = \text{Limit} - \text{Level}$

- 2) Scan from 9kHz to 40GHz, The disturbance between 9KHz to 30MHz and 18GHz to 40GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

- 3) All modes have been tested, but only the worst case data displayed in this report.

### **3.9 Frequency Stability / Temperature Variation**

**Measurement Procedure:**

Frequency stability testing is performed in accordance with the guidelines of FCC KDB 971168 D01 V03r01 Section 9

The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

Specification – The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5 \text{ ppm}$ ) of the center frequency.

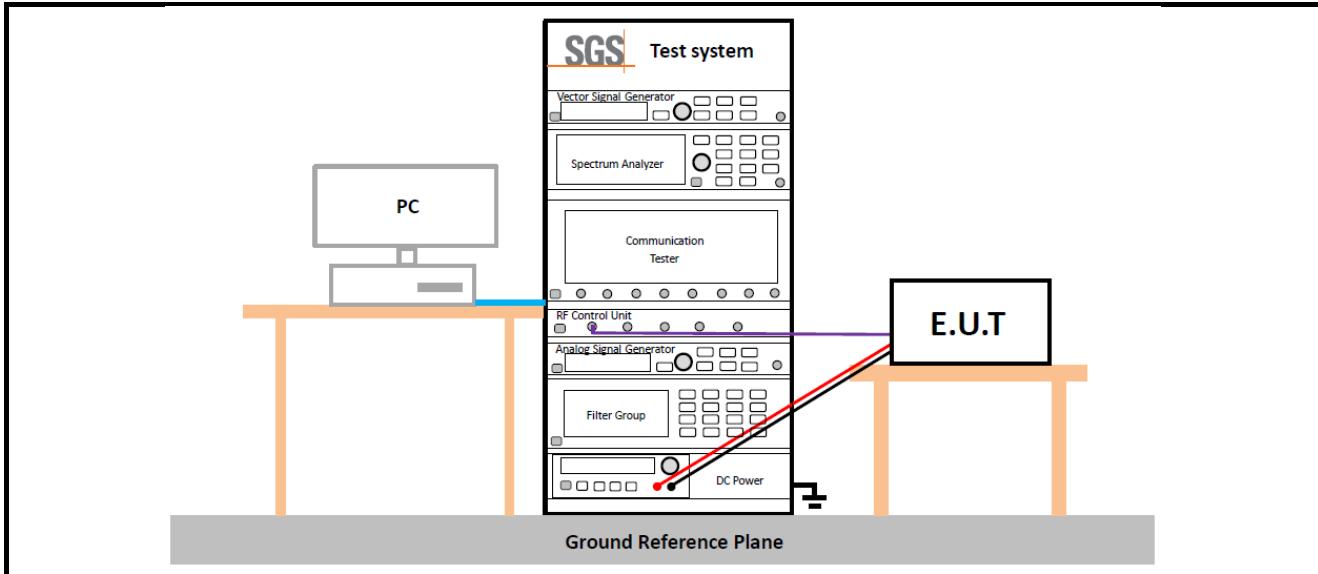
**Time Period and Procedure:**

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

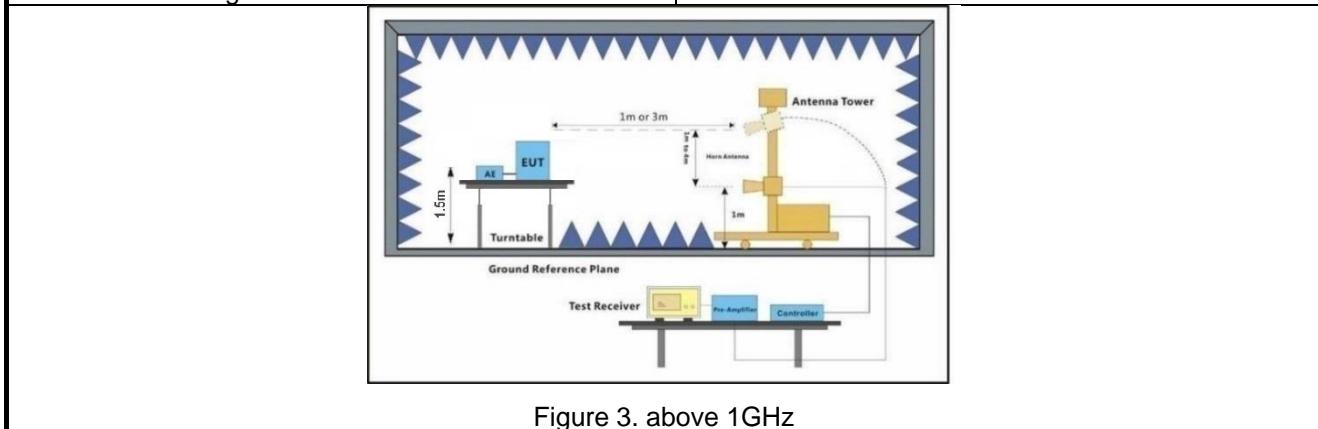
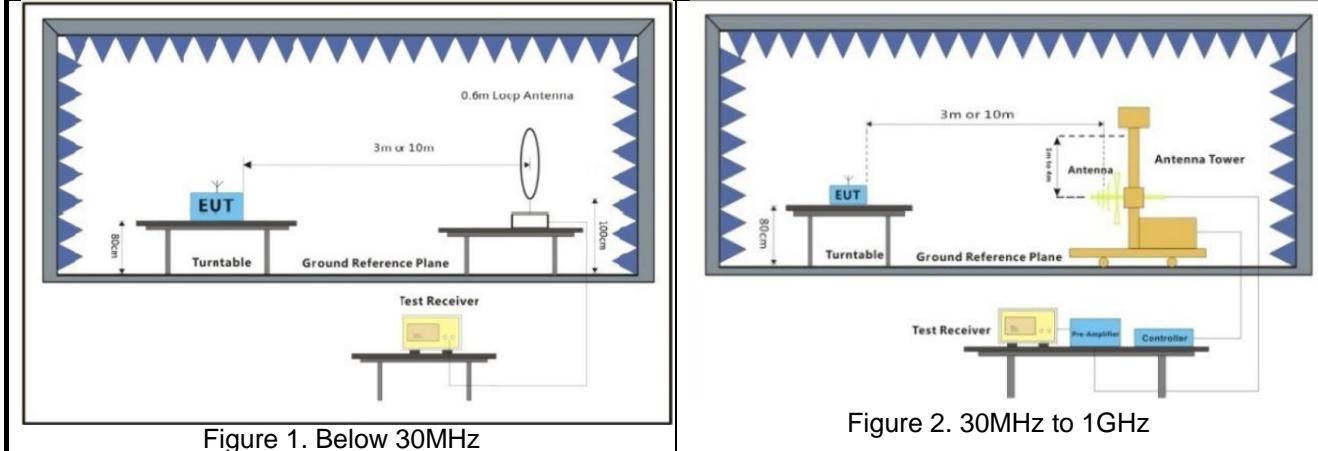
**Remark: Reference test setup 3**

### 3.10 Test Setups

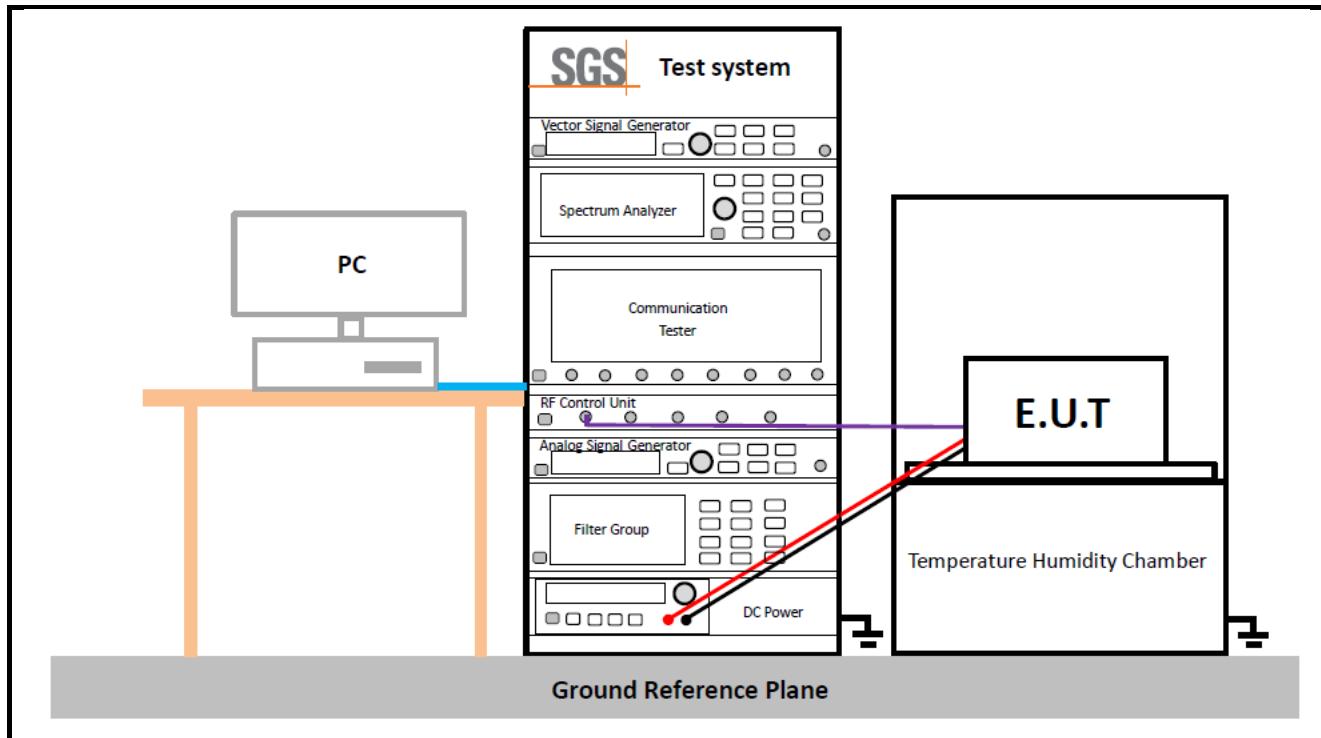
#### 3.10.1 Test Setup 1



#### 3.10.2 Test Setup 2



### 3.10.3 Test Setup 3



### 3.11 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	NR/TM1; NR/TM2; NR/TM3; NR/TM4; NR/TM5;

Peak-to-Average Ratio	
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	NR/TM5; NR/TM9

Bandwidth - Occupied Bandwidth	
Test Case	Test Conditions
Test Environment	Ambient Climate & Rated Voltage
Test Setup	Test Setup 1
RF Channels (TX)	M (M= middle channel)
Test Mode	NR/TM1; NR/TM2; NR/TM3; NR/TM4; NR/TM5; NR/TM6; NR/TM7; NR/TM8; NR/TM9

Bandwidth - Emission Bandwidth	
Test Case	Test Conditions
Test Environment	Ambient Climate & Rated Voltage
Test Setup	Test Setup 1
RF Channels (TX)	M (M= middle channel)
Test Mode	NR/TM1; NR/TM2; NR/TM3; NR/TM4; NR/TM5; NR/TM6; NR/TM7; NR/TM8; NR/TM9

Band Edges Compliance	
Test Case	Test Conditions
Test Environment	Ambient Climate & Rated Voltage
Test Setup	Test Setup 1
RF Channels (TX)	L, H (L= low channel, H= high channel)
Test Mode	NR/TM1; NR/TM6

**SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.**

Report No.: SUCR250400032003

Rev.: 01

Page: 34 of 38

<b>Spurious Emission at Antenna Terminals</b>	
<b>Test Case</b>	<b>Test Conditions</b>
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	NR/TM1

<b>Field Strength of Spurious Radiation</b>	
<b>Test Case</b>	<b>Test Conditions</b>
Test Environment	Ambient Climate & Rated Voltage
Test Setup	Test Setup 2
RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)
Test Mode	NR/TM1 Remark: All bandwidth and modulation of NR have been pre tested, and only the worst results are reflected in the report.

<b>Frequency Stability</b>	
<b>Test Case</b>	<b>Test Conditions</b>
Test Environment	(1) -30 °C to +50 °C with step 10 °C at Rated Voltage (2) VL, VN and VH of Rated Voltage at Ambient Climate.
Test Setup	Test Setup 3
RF Channels (TX)	M (M= middle channel)
Test Mode	NR/TM1; NR/TM6 The report only show the bandwidth with the worst case.

## 4 Main Test Instruments

RF Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2022/11/9	2025/11/8
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2025/2/13	2026/2/12
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2025/1/20	2026/1/19
Measurement Software	TST	TST-271-2.0	SUWI-03-55-01	NCR	NCR
Measurement Software	Tonscend	J1120 RF Auto Test System	SUWI-02-03-01	NCR	NCR
Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	2024/11/19	2025/11/18
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2025/1/20	2026/1/19
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2024/11/19	2025/11/18
Wideband Radio Communication Test Station	Anritsu	MT8000A	SUWI-01-34-02	2024/11/19	2025/11/18

**SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.**

Report No.: SUCR250400032003

Rev.: 01

Page: 36 of 38

RSE Test Equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	6/3/2023	6/2/2026
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2/13/2025	2/12/2026
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	1/20/2025	1/19/2026
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	11/21/2024	11/20/2025
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	1/15/2025	1/14/2026
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	5/13/2023	5/12/2025
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	5/13/2023	5/12/2025
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	5/12/2023	5/11/2025
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	5/13/2023	5/12/2025
Amplifier	Tonscend	TAP9K3G32	SUWI-01-14-06	11/19/2024	11/24/2025
Amplifier	Tonscend	TAP01018050	SUWI-01-14-04	11/19/2024	11/24/2025
Amplifier	Tonscend	TAP30M7G30	SUWI-01-14-05	11/19/2024	11/24/2025
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR

Remark: NCR=No Calibration Requirement.

## 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:

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	$\pm 0.54\text{dB}$
2	RF power density, conducted	$\pm 1.03\text{dB}$
3	Spurious emissions, conducted	$\pm 0.54\text{dB}$
4	Radio Frequency	$\pm 1.0\text{ \%}$
5	Duty Cycle	$\pm 0.37\text{ \%}$
6	Occupied Bandwidth	$\pm 1.0\text{ \%}$
7	Radiated Emission	$\pm 3.13\text{dB (9k -30MHz)}$
		$\pm 4.88\text{dB (30M -1GHz)}$
		$\pm 4.75\text{dB (1GHz to 18GHz)}$
		$\pm 4.77\text{dB (Above 18GHz)}$

**Remark:**

The  $U_{\text{lab}}$  (lab Uncertainty) is less than  $U_{\text{cisp/ETSI}}$  (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.

## 6 Appendixes

Appendix A.3	WWAN Setup Photos
Appendix B.16	NR Band n2
Appendix B.17	NR Band n5
Appendix B.18	NR Band n30
Appendix B.19	NR Band n66
Appendix B.20	NR Band n77(3450-3550)
Appendix B.21	NR Band n77(3700-3980)

---End of Report---