

Report No.: SEWM2311000466RG02

Rev.: 01

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TEST REPORT

Application No: SEWM2311000466RG

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.: SN339D

FCC ID: 2A28USN339D Standards: 47 CFR Part 2

47 CFR Part 22 47 CFR Part 24 47 CFR Part 27 47 CFR Part 90 47 CFR Part 96

Date of Receipt: 2023/11/17

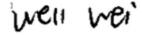
Date of Test: 2024/01/02 to 2024/01/25

Date of Issue: 2024/01/26

Test Result: PASS *

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Authorized Signature:



Well Wei Wireless Laboratory Manager



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^{*} In the configuration tested, the EUT detailed in this report complied with the standards specified above.



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1 Version

Revision Record					
Version	Version Chapter Date Modifier Remark				
01		2024/01/26		Original	

Prepared By	(levi Li) / Test Engineer	
	(Levi Li) / Test Engineer	
Checked By	Stone gu	
	(Stone Gu) / Reviewer	



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2 Test Summary

2.1 NR Band n5/ NR Band n26(824~849 MHz)

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.18&B.21	Pass
Peak-Average Ratio	§22.913(d)	Limit≤13 dB	Section 2 of Appendix B.18&B.21	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.18&B.21	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 4 of Appendix B.18&B.21	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.18&B.21	Pass
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	FCC: ≤ -13 dBm/100 kHz.	Section 6 of Appendix B.18&B.21	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §22.355	±2.5ppm.	Section 7 of Appendix B.18&B.21	Pass



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2.2 NR Band n41

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(h)(2)	EIRP ≤ 2W	Section 1 of Appendix B.23	Pass
Peak-Average Ratio		≤13 dB	Section 2 of Appendix B.23	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.23	Pass
Band Edges Compliance	§2.1051, §27.53(m4)	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, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, wdhere 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 that 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.	Section 4 of Appendix B.23	Pass
Spurious Emission at Antenna Terminals	ourious ssion at \$2.1051, at \$27.53(m)		Section 5 of Appendix B.23	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(m)	Channel Edge -25 dBm/ 1 MHz 1 MHz 1 MHz 9 kHz 95 MHz XMHz 10th harmonics X=Max {6MHz, EBW}	Section 6 of Appendix B.23	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	Within authorized bands of operation/frequency block.	Section 7 of Appendix B.23	Pass



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2.3 NR Band n2/ NR Band n25

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.17&B.19	Pass
Peak-Average Ratio	§24.232(d)	Limit≤13 dB	Section 2 of Appendix B.17&B.19	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.17&B.19	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 4 of Appendix B.17&B.19	Pass
Spurious Emission at Antenna Terminals	§2.1051, §24.238(a)	≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Section 5 of Appendix B.17&B.19	Pass
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	≤ -13 dBm/1 MHz.	Section 6 of Appendix B.17&B.19	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §24.235	Within authorized bands of operation/frequency block.	Section 7 of Appendix B.17&B.19	Pass



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2.4 NR Band n26(814~824 MHz)

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Transmitter Conducted Power Output	§2.1046, §90.635(b)	< 100 W.	Section 1 of Appendix B.20	Pass
Peak-Average Ratio		Limit≤13 dB	Section 2 of Appendix B.20	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.20	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 Log10(f/6.1) decibels or 50+10Log10(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.	Section 4 of Appendix B.20	Pass
Spurious Emission at Antenna Terminals	§2.1051, §90.691	< 43 + 10Log10(P[Watts]) for all out- of-band emissions	Section 5 of Appendix B.20	Pass
Field Strength of Spurious Radiation	§2.1053, §90.691	< 43 + 10Log10(P[Watts]) for all out- of-band emissions	Section 6 of Appendix B.20	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §90.213	Within authorized bands of operation/frequency block.	Section 7 of Appendix B.20	Pass



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2.5 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 ≤ 50mW/1MHz EIRP ≤ 250mW/5MHz	Section 1 of Appendix B.22	Pass
Peak-Average Ratio		FCC: Limit≤13 dB	Section 2 of Appendix B.22	Pass
Bandwidth	§2.1049,	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.22	Pass
Band Edges Compliance	§2.1051, §27.53(a)(4)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 4 of Appendix B.22	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(a)(4)	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 2341 and 2324 MHz and 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 2324 and 2328 MHz and 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 2300 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 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 +	Section 5 of Appendix B.22	Pass



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		10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 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.22	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	within the range of the operating frequency blocks	Section 7 of Appendix B.22	Pass



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2.6 NR Band n66/ NR Band n70

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.25&B.26	Pass
Peak-Average Ratio	§27.50(d)(5)	Limit≤13 dB	Section 2 of Appendix B.25&B.26	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.25&B.26	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 4 of Appendix B.25&B.26	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(h)	≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Section 5 of Appendix B.25&B.26	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	≤ -13 dBm/1 MHz.	Section 6 of Appendix B.25&B.26	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	Within authorized bands of operation/frequency block.	Section 7 of Appendix B.25&B.26	Pass



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2.7 NR Band n71

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	ERP≤3W	Section 1 of Appendix B.27	Pass
Peak-Average Ratio		Limit≤13 dB	Section 2 of Appendix B.27	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.27	Pass
Band Edges Compliance	§2.1051, §27.53(g)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 4 of Appendix B.27	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Section 5 of Appendix B.27	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	≤ -13 dBm/1 MHz.	Section 6 of Appendix B.27	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	within the authorized bands of operation.	Section 7 of Appendix B.27	Pass



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2.8 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.29	Pass
Peak-Average Ratio		≤13 dB	Section 2 of Appendix B.29	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.29	Pass
Band Edges Compliance	§2.1051, §27.53(I)(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 (I)(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 4 of Appendix B.29	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(I)(2)	not exceed -13 dBm/MHz.	Section 5 of Appendix B.29	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(I)(2)	not exceed -13 dBm/MHz	Section 6 of Appendix B.29	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	Within authorized bands of operation/frequency block.	Section 7 of Appendix B.29	Pass



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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.28	Pass
Peak-Average Ratio	§27.50(k)(4)	FCC: Limit≤13 dB	Section 2 of Appendix B.28	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.28	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 4 of Appendix B.28	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.28	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.28	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	Within authorized bands of operation/ frequency block.	Section 7 of Appendix B.28	Pass



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2.9 NR Band n48

3550-3700MHz:

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §96.41	EIRP ≤ 23dBm/10MHz	Section 1 of Appendix B.24	Pass
Peak-Average Ratio	§96.41	FCC: Limit≤13 dB	Section 2 of Appendix B.24	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 3 of Appendix B.24	Pass
Adjacent Channel Leakage Ratio	§96.41	the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30 dB.	Section 4 of Appendix B.24	Pass
Band Edges Compliance	§2.1051, §96.41	for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge.	Section 5 of Appendix B.24	Pass
Spurious Emission at Antenna Terminals	§2.1051, §96.41	for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. (2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of	Section 6 of Appendix B.24	Pass



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		emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.		
Field Strength of Spurious Radiation	§2.1053, §96.41	for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed –13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed –25 dBm/MHz. (2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed –25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed –40dBm/MHz.	Section 7 of Appendix B.24	Pass
Frequency Stability	§2.1055, §96.41	Within authorized bands of operation/ frequency block.	Section 8 of Appendix B.24	Pass



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General Information 3

3.1 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

3.2 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

3.3 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

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Test Firm Registration Number: 717327



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3.4 General Description of EUT

EUT Description:	Smart Phone	Smart Phone					
Model No.:	SN339D						
Hardware Version:	1.0						
Software Version:	SN339DD10010						
Power Supply:	5V						
IN A IT I.	RF Conducted		3567047600	05279			
IMEI:	RSE		3567047600	04769			
HPUE Power Class:	Class 2: NR Band	Class 2: NR Band n77;					
Antenna Type:	☐ External, ⊠	Integrate	ed				
	NR Band n2:	0.95dBi(Ant3)		NR Band n	15:	-3dBi(Ant0)	
	NR Band n25:	0.95dBi(Ant3)		NR Band n	26:	-3dBi(Ant0)	
	NR Band n30:	-2.8d	Bi(Ant3)	NR Band n	41:	-0.27dBi(Ant3)	
	NR Band n48:	-0.68	dBi(Ant4)	NR Band n66:		-0.43dBi(Ant3)	
Antenna Gain:	NR Band n70:	-1.04	dBi(Ant3)	NR Band n71:		-2.2dBi(Ant0)	
	NR Band n77:	-1.35	dBi(Ant4)				
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.						
DE Coble	0.8dB(Below 1GF	lz)	1.0dB(1.0~	2.4GHz)	1.2dl	B(2.4~3.4GHz)	
RF Cable:	1.5dB(Above 3.40	GHz)	1.5dB(Above 3.4GHz)				

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3.5 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 m	ode(s) are selected according to relevant radio technology specifications.

3.6 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	-30	3.4		
LTHV	-30	4.4		
HTLV	50	3.4		
HTHV	50	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

3.7 Description of Support Units

Description	Manufacturer	Model No.			
Power Adapter	ShenZhen Baijunda Electronic Co.,Ltd	UT-681A-5200A1Y			
Remark: The information of table are provided by client.					



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 t (86-512) 62992980
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3.8 Technical Specification

Characteristics	Description					
Radio System Type	⊠ SA ⊠ NSA					
	Band	TX		RX		
	NR Band n2	1850 to 1910 MHz		1930 to 1990) MHz	
	NR Band n5	824 to 849 l	ИНz	869 to 894 N	1Hz	
	NR Band n25	1850 to 1915	5MHz	1930 to 1995	5 MHz	
	NR Band n26 (814 to 824 MHz)	814 to 824M	Hz	859 to 869 N	1Hz	
	NR Band n26 (824 to 849 MHz)	824 to 849 M	1Hz	869 to 894 N	1Hz	
	NR Band n30	2305 to 2315	5 MHz	2350 to 2360) MHz	
	NR Band n41	2496 to 2690) MHz	2496 to 2690) MHz	
	NR Band n48	3550 to 3700) MHz	3550 to 3700) MHz	
Supported Frequency Range	NR Band n66	1710 to 1780) MHz	2110 to 2200) MHz	
Trange	NR Band n70	1695 to 1710 MHz		1995 to 2020 MHz		
	NR Band n71	663 to 698 MHz		617 to 652 N	617 to 652 MHz	
	NR Band n77*	3700 to 3980 MHz			3700 to 3980 MHz	
		3450 to 3550) MHz	3450 to 3550) MHz	
	ENDC: DC_2A_n2A; DC_5 DC_30A_n2A; DC_ DC_66A_n41A; DC DC_30A_n66A; DC DC_66A_n77A;DC DC_30A_n77A;DC Remark: ENDC only	2A_n5A; DC_0 ;_2A_n66A; D0 ;_66A_n66A;D0 25A_n77A;D0 _12A_n25A;D0	66A_n5A; DC_; C_12A_n66A; E C_2A_n71A; D C_5A_n77A;DC C_66A_n25A;	30A_n5A; DC_ 0C_14A_n66A; C_66A_n71A; ;_12A_n77A;D0	2A_n41A; DC_2A_n77A;	
	ND David vo	SCS 15kHz:				
	NR Band n2	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz	
		SCS 15kHz:				
	NR Band n5	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz	
Supported Channel	ND David vOF	SCS 15kHz:				
Bandwidth	NR Band n25	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz	
	ND Bond =00	SCS 15kHz:				
	NR Band n26	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz	
	ND Bond =20	SCS 15kHz:				
	NR Band n30	⊠5 MHz	⊠10 MHz			



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 www.sgsgroup.com.cn

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		SCS 15kHz:			
		⊠10 MHz	⊠15 MHz	⊠20 MHz	⊠40 MHz
		⊠50 MHz			
	NR Band n41	SCS 30kHz:			
		⊠10 MHz	⊠15 MHz	⊠20 MHz	⊠40 MHz
		⊠50 MHz	⊠60 MHz	⊠80 MHz	⊠90 MHz
		⊠100 MHz			
		SCS 15kHz:			
		⊠10 MHz	⊠15 MHz	⊠20 MHz	⊠40 MHz
	NR Band n48	SCS 30kHz:			
		⊠10 MHz	⊠15 MHz	⊠20 MHz	⊠40 MHz
		SCS 15kHz:			
	NR Band n66	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz
		⊠40 MHz			
		SCS 15kHz:			
	NR Band n70	⊠5 MHz	⊠10 MHz	⊠15 MHz	
		SCS 15kHz:			
	NR Band n71	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz
		SCS 15kHz:			
		⊠10 MHz	⊠15 MHz	⊠20 MHz	⊠40 MHz
		⊠50 MHz			
	NR Band n77	SCS 30kHz			
		⊠10 MHz	⊠15 MHz	⊠20 MHz	⊠40 MHz
		⊠50 MHz	⊠60 MHz	⊠80 MHz	⊠90 MHz
		⊠100 MHz			
	*Remark: The SCS			and are tested,	but only
	showed the worst ca	ase in this repo DFT-s-Pi/2-			
Designation of Emissions		BPSK	CP-16QAM		
(Remark: the necessary		SCS 15kHz:			
bandwidth of which is the worst value from the measured occupied bandwidths for each	NR Band n2	4M50G7D	4M50W7D		
		8M95G7D	9M30W7D		
		13M5G7D	14M2W7D		
type of channel		18M0G7D	19M0W7D		
bandwidth	NR Band n5	SCS 15kHz:			
configuration.)	UII DIIIDU ZIVI	4M50G7D	4M50W7D		



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	8M95G7D	9M30W7D	

	8M95G7D	9M30W7D	
	13M5G7D	14M2W7D	
	17M9G7D	18M9W7D	
	SCS 15kHz:		
	4M51G7D	4M50W7D	
NR Band n25	8M95G7D	9M30W7D	
	13M5G7D	14M2W7D	
	18M0G7D	18M9W7D	
	SCS 15kHz:		
NR Band n26 (814 to 824 MHz)	4M51G7D	4M50W7D	
,	8M94G7D	9M29W7D	
	SCS 15kHz:		
ND D	4M50G7D	4M50W7D	
NR Band n26 (824 to 849 MHz)	8M95G7D	9M29W7D	
(02 / 10 0 / 10 / 11 / 12 /	13M5G7D	14M2W7D	
	17M9G7D	18M9W7D	
	SCS 15kHz:		
NR Band n30	4M50G7D	4M51W7D	
	8M95G7D	9M31W7D	
	SCS 30kHz:		
	8M61G7D	8M56W7D	
	12M9G7D	13M6W7D	
	17M9G7D	18M3W7D	
NR Band n41	36M1G7D	38M0W7D	
INIX Dally 1141	45M8G7D	47M6W7D	
	57M9G7D	57M8W7D	
	77M1G7D	77M4W7D	
	85M7G7D	87M2W7D	
	96M2G7D	97M1W7D	
	SCS 30kHz:		
	8M61G7D	8M57W7D	
NR Band n48	12M9G7D	13M6W7D	
	17M9G7D	18M2W7D	
	36M1G7D	38M0W7D	



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			i age.	20 01 02
		4M51G7D	4M51W7D	
		8M94G7D	9M31W7D	
		13M5G7D	14M2W7D	
		17M9G7D	18M9W7D	
		38M8G7D	38M9W7D	
		SCS 15kHz:		
	ND David 1170	4M51G7D	4M50W7D	
	NR Band n70	8M94G7D	9M30W7D	
		13M5G7D	14M2W7D	
		SCS 15kHz:		
		4M50G7D	4M50W7D	
	NR Band n71	8M96G7D	9M31W7D	
		13M5G7D	14M2W7D	
		17M9G7D	19M0W7D	
		SCS 30kHz:		
		8M61G7D	8M56W7D	
		12M9G7D	13M6W7D	
		17M9G7D	18M2W7D	
		36M1G7D	38M0W7D	
	NR Band n77	45M8G7D	47M6W7D	
	(3450-3550)	57M9G7D	57M8W7D	
		64M4G7D	67M5W7D	
		77M2G7D	77M5W7D	
		85M8G7D	87M3W7D	
		96M3G7D	97M3W7D	
		SCS 30kHz:		
		8M61G7D	8M56W7D	
		12M9G7D	13M6W7D	
		17M9G7D	18M2W7D	
NR Band n77 (3700-3980)	ND Pand n77	36M0G7D	38M0W7D	
		45M8G7D	47M5W7D	
	•	57M9G7D	57M8W7D	
		77M2G7D	77M5W7D	
		85M8G7D	87M3W7D	
		96M5G7D	97M3W7D	
		JUNIJGI D	J I IVIOV V I D	



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3.9 Test Frequencies

3.9.1 Reference test frequencies for NR operating band n2

3.9.1.1 Test frequencies for NR operating band n2 and SCS 15 kHz

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



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3.9.2 Reference test frequencies for NR operating band n5

3.9.2.1 Test frequencies for NR operating band n5 and SCS 15 kHz

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



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3.9.3 Reference test frequencies for NR operating band n25

3.9.3.1 Test frequencies for NR operating band n25 and SCS 15 kHz

CBW [MHz]	Range	r operag a	Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
		Low	1932.5	386500	
	Downlink	Mid	1962.5	392500	15
5		High	1992.5	398500	
5		Low	1852.5	370500	
	Uplink	Mid	1882.5	376500	_
		High	1912.5	382500	
		Low	1935	387000	
	Downlink	Mid	1962.5	392500	15
10		High	1990	398000	
10		Low	1855	371000	
	Uplink	Mid	1882.5	376500	-
		High	1910	382000	
		Low	1937.5	387500	
	Downlink	Mid	1962.5	392500	15
15		High	1987.5	397500	
15		Low	1857.5	371500	
	Uplink	Mid	1882.5	376500	-
	•	High	1907.5	381500	
		Low	1940	388000	
	Downlink	Mid	1962.5	392500	15
20		High	1985	397000	
20		Low	1860	372000	
	Uplink	Mid	1882.5	376500	-
		High	1905	381000	



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Reference test frequencies for NR operating band n26 3.9.4.1 Test frequencies for NR operating band n26 and SCS 15 kHz

814-824:

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
		Low	861.5	172300	
	Downlink	Mid	864	172800	15
5		High	866.5	173300	1
3		Low	816.5	163300	
	Uplink	Mid	819	163800	-
	·	High	821.5	164300	
		Low	1	1	
	Downlink	Mid	864	172800	15
10		High	1	/	1
10		Low	1	1	
	Uplink	Mid	819	163800	-
	•	High	1	1	

004 040.

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



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3.9.5 Reference test frequencies for NR operating band n30

3.9.5.1 Test frequencies for NR operating band n30 and SCS 15 kHz

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



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 215000
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 www.sgsgroup.com.cn

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3.9.6 Reference test frequencies for NR operating band n41

3.9.6.1 Test frequencies for NR operating band n41 and SCS 15 kHz

Bandwidth [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
•	Downlink	Low	2501.01	500202	
10	&	Mid	2593.005	518601	15
	Uplink	High	2685	537000	
	Downlink	Low	2503.5	500700	
15	&	Mid	2593.005	518601	15
	Uplink	High	2682.495	536499	
	Downlink	Low	2506.005	501201	
20	&	Mid	2593.005	518601	15
	Uplink	High	2679.99	535998	
	Downlink	Low	2516.01	503202	
40	&	Mid	2593.005	518601	15
	Uplink	High	2670	534000	
	Downlink	Low	2521.005	504201	
50	&	Mid	2593.005	518601	15
	Uplink	High	2664.99	532998	

3.9.7 Reference test frequencies for NR operating band n41 3.9.7.1 Test frequencies for NR operating band n41 and SCS 30 kHz

3.9.7.1 Test frequencies for NR operating band n41 and SCS 30 KHZ							
CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]		
	Downlink	Low	2501.01	500202			
10	&	Mid	2592.99	518598	30		
	Uplink	High	2685	537000			
	Downlink	Low	2503.5	500700			
15	&	Mid	2592.99	518598	30		
	Uplink	High	2682.48	536496			
	Downlink	Low	2506.02	501204			
20	&	Mid	2592.99	518598	30		
	Uplink	High	2670	534000	1		
	Downlink	Low	2516.01	503202			
40	&	Mid	2592.99	518598	30		
	Uplink	High	2670	534000	1		
	Downlink	Low	2521.02	504204			
50	&	Mid	2592.99	518598	30		
	Uplink	High	2664.99	532998			
	Downlink	Low	2526	505200			
60	&	Mid	2592.99	518598	30		
	Uplink	High	2659.98	531996	1		
	Downlink	Low	2536.02	507204			
80	&	Mid	2592.99	518598	30		
	Uplink	High	2649.99	529998	1		
	Downlink	Low	2541	508200			
90	&	Mid	2592.99	518598	30		
	Uplink	High	2644.98	528996			
	Downlink	Low	2546.01	509202			
100	&	Mid	2592.99	518598	30		
	Uplink	High	2640	528000	1		



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3.9.8 Reference test frequencies for NR operating band n48

3.9.8.1 Test frequencies for NR operating band n48 and SCS 15 kHz

Bandwidth [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
	Downlink	Low	3555	637000	
10	&	Mid	3624.99	641666	15
	Uplink	High	3694.98	646332	
	Downlink	Low	3557.52	637168	
15	&	Mid	3624.99	641666	15
	Uplink	High	3692.49	646166	
	Downlink	Low	3560.01	637334	
20	&	Mid	3624.99	641666	15
	Uplink	High	3690	646000	
	Downlink	Low	3570	638000	
40	&	Mid	3624.99	641666	15
	Uplink	High	3679.98	645332	

3.9.8.2 Test frequencies for NR operating band n48 and SCS 30 kHz

Bandwidth [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
	Downlink	Low	3555	637000	
10	&	Mid	3624.99	641666	30
	Uplink	High	3694.98	646332	
	Downlink	Low	3557.52	637168	30
15	&	Mid	3624.99	641666	
	Uplink	High	3692.49	646166	
	Downlink	Low	3560.01	637334	30
20	&	Mid	3624.99	641666	
	Uplink	High	3690	646000	
	Downlink	Low	3570	638000	
40	&	Mid	3624.99	641666	30
	Uplink	High	3679.98	645332	



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3.9.9 Reference test frequencies for NR operating band n66

3.9.9.1 Test frequencies for NR operating band n66 and SCS 15 kHz

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



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3.9.10 Reference test frequencies for NR operating band n70 3.9.10.1 Test frequencies for NR operating band n70 and SCS 15 kHz

Bandwidth [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
	Downlink	Low	1997.5	399500	
		Mid	2002.5	400500	15
5		High	2007.5	401500	
5		Low	1697.5	339500	
	Uplink	Mid	1702.5	340500	
		High	1707.7	341500	
		Low	2000	400000	
	Downlink	Mid	2002.5	400500	15
10		High	2005	401000	
10		Low	1700	340000	
	Uplink	Mid	1702.5	340500	
		High	1705	341000	
15		Low	1	1	
	Downlink	Mid	2002.5	400500	 15 15
		High	1	1	
	•	Low	1	1	
	Uplink	Mid	1702.5	340500	 15
	•	High	1	1	



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3.9.11 Reference test frequencies for NR operating band n71

3.9.11.1 Test frequencies for NR operating band n71 and SCS 15 kHz

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
	Downlink	Low	619.5	123900	
		Mid	634.5	126900	15
5		High	649.5	129900	
]		Low	665.5	133100	
	Uplink	Mid	680.5	136100	-
		High	695.5	139100	
		Low	622	124400	
	Downlink	Mid	634.5	126900	15
10		High	647	129400	
10		Low	668	133600	
	Uplink	Mid	680.5	136100	-
		High	693	138600	
	Downlink	Low	624.5	124900	
		Mid	634.5	126900	15
15		High	644.5	128900	
15	Uplink	Low	670.5	134100	
		Mid	680.5	136100	-
		High	690.5	138100	
		Low	627	125400	
20	Downlink	Mid	634.5	126900	15
		High	642	128400	
		Low	673	134600	
	Uplink	Mid	680.5	136100	-
		High	688	137600	



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3.9.12 Reference test frequencies for NR operating band n77 3.9.12.1 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]
	Downlink	Low	3705	647000	
10	&	Mid	3840	656000	30
	Uplink	High	3975	665000	
	Downlink	Low	3707.52	647168	
15	&	Mid	3840	656000	30
	Uplink	High	3972.48	664832	
	Downlink	Low	3710.01	647334	
20	&	Mid	3840	656000	30
	Uplink	High	3969.99	664666	
	Downlink	Low	3720	648000	
40	&	Mid	3840	656000	30
	Uplink	High	3960	664000	
	Downlink	Low	3725.01	648334	
50	&	Mid	3840	656000	30
	Uplink	High	3954.99	663666	
	Downlink	Low	3730.02	648668	
60	&	Mid	3840	656000	30
	Uplink	High	3949.98	663332]
	Downlink	Low	3740.01	649334	
80	&	Mid	3840	656000	30
	Uplink	High	3939.99	662666	
	Downlink	Low	3745.02	649668	
90	&	Mid	3840	656000	30
	Uplink	High	3934.98	662332]
	Downlink	Low	3750	650000	
100	&	Mid	3840	656000	30
	Uplink	High	3930	662000	



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3450-3550:

CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
	Downlink	Low	3455.01	630334	
10	&	Mid	3500.01	633334	30
	Uplink	High	3545.01	636334	
	Downlink	Low	3457.5	630500	
15	&	Mid	3500.01	633334	30
	Uplink	High	3542.49	636166	
	Downlink	Low	3460.02	630668	
20	&	Mid	3500.01	633334	30
	Uplink	High	3540	636000	
	Downlink	Low	3470.01	631334	
40	&	Mid	3500.01	633334	30
	Uplink	High	3530.01	635334	
	Downlink	Low	3475.02	631668	
50	&	Mid	3500.01	633334	30
	Uplink	High	3525	635000	
	Downlink	Low	3480	632000	
60	&	Mid	3500.01	633334	30
	Uplink	High	3519.99	634666	
	Downlink	Low	3490.02	632668	
80	&	Mid	3500.01	633334	30
	Uplink	High	3510	634000	
	Downlink	Low	3495	633000	
90	&	Mid	3500.01	633334	30
	Uplink	High	3504.99	633666	
	Downlink	Low	\	1	
100	&	Mid	3500.01	633334	30
	Uplink	High	\	\	7



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4 Description of Tests

4.1 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



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4.2 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



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4.3 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 ≥ 3 × RBW.
- 5. Detector = RMS (power averaging).
- 6. Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span/RBW}$.
- 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).



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4.4 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

- 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
- VBW ≥ 3 x RBW
- 4. Detector = Peak
- 5. Trace mode = max hold
- Sweep = auto couple
- 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



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4.5 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

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 > 1% of the emission bandwidth
- VBW ≥ 3 x RBW
- Detector = RMS
- Number of sweep points ≥ 2 x Span/RBW
- Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 8. Sweep time = auto couple
- The trace was allowed to stabilize



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4.6 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 emissinos, 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



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4.7 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

Remark: Reference test setup 1

Test Settings

- The signal analyzer's CCDF measurement profile is enabled
- Frequency = carrier center frequency
- Measurement BW > Emission bandwidth of signal
- 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



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4.8 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 (dB μ V/m) = Measured amplitude level (dB μ V) + (Cable Loss (dB) + Antenna Factor (dB/m) – AMP(dB)) EIRP (dBm) = E (dB μ V/m) + 20 log D – 104.8; where D is the measurement distance in meters

Above 1GHz test procedure as below:

- 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:

 $E (dB\mu V/m) = Measured amplitude level (dB\mu V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP(dB))$ $EIRP (dBm) = E (dB\mu V/m) + 20 log D - 104.8$; 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*LOG(3/1) = 9.54 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 = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit - 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.



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4.9 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 ±0.00025% (±2.5 ppm) of the center frequency.

Time Period and Procedure:

- 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



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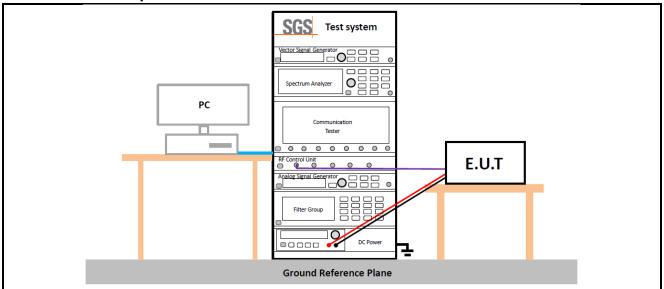
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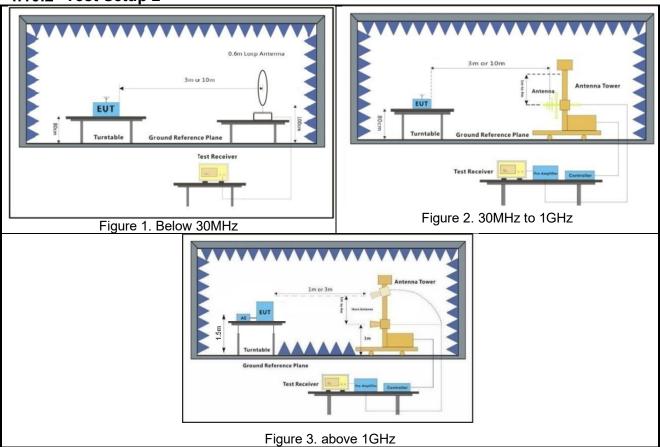
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4.10 Test Setups

4.10.1 Test Setup 1



4.10.2 Test Setup 2





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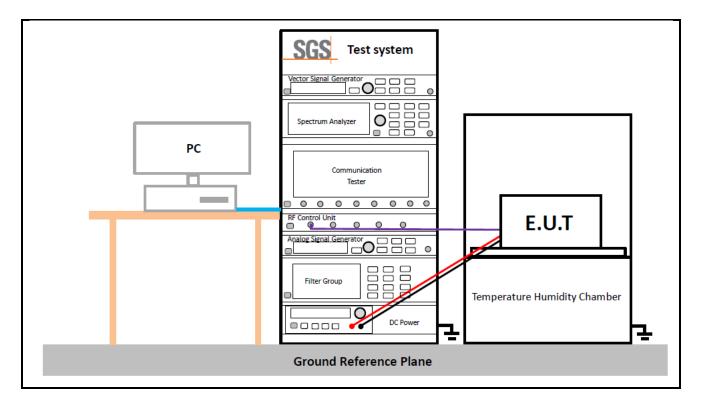


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4.10.3 Test Setup 3





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4.11 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 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			



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t (86-512) 62992980 t (86–512) 62992980 sgs.china@sgs.com

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Spurious Emission at Antenna Terminals			
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		
Field Strength of Spurious Radiation			
Test Case	Test Conditions		
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.		
Frequency Stability			
Test Case	Test Conditions		
Test Environment	(1) -30 °C to +50 °C with step 10 °C at Rated Voltage		
Test Environment	(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		
1 CSt WOOG	The report only show the bandwidth with the worst case.		



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5 Main Test Instruments

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/05/08	2024/05/07
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2023/02/06	2024/02/05
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2023/05/11	2024/05/10
Measurement Software	Tonscend	JS1120-3 Test System V 2.6.88.0336	SUWI-02-09-09	NCR	NCR
Measurement Software	TST	TST-271-2.0	SUWI-03-55-01	NCR	NCR
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2023/02/06	2024/02/05
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2023/02/06	2024/02/05
Radio Communication Analyzer	StarPoint	SP9500E	SUWI-01-28-01	2023/09/13	2024/09/12
Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2023/05/13	2024/05/12
Wideband Radio Communication Test Ststion	Anritsu	MT8000A	SUWI-01-34-02	2023/09/12	2024/09/11
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10



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RSE Test System					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-02	2021/11/25	2024/11/24
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-13	2023/02/07	2024/02/06
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2023/05/11	2024/05/10
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-06	2023/11/21	2024/11/20
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2023/02/08	2024/02/07
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9168	SUWI-01-11-04	2023/11/25	2024/11/24
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-05	2023/11/25	2024/11/24
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2023/05/12	2024/05/11
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2023/05/13	2024/05/12
Amplifier	Tonscend	TAP9K3G32	SUWI-01-14-06	2023/11/21	2024/11/20
Amplifier	Tonscend	TAP01018050	SUWI-01-14-04	2023/11/21	2024/11/20
Amplifier	Tonscend	TAP30M7G30	SUWI-01-14-05	2023/11/21	2024/11/20
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	SUWI-01-04-01	2023/02/06	2024/02/05
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR

Remark: NCR=No Calibration Requirement.



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6 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	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	±1.0 %
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±1.0 %
		± 3.13dB (9k -30MHz)
7	Radiated Emission	± 4.88dB (30M -1GHz)
		± 4.75dB (1GHz to 18GHz)
		± 4.77dB (Above 18GHz)

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispt/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.



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Appendixes

Appendix A.3	WWAN Setup Photos
Appendix B.17	NR Band n2
Appendix B.18	NR Band n5
Appendix B.19	NR Band n25
Appendix B.20	NR Band n26(814-824)
Appendix B.21	NR Band n26(824-849)
Appendix B.22	NR Band n30
Appendix B.23	NR Band n41
Appendix B.24	NR Band n48
Appendix B.25	NR Band n66
Appendix B.26	NR Band n70
Appendix B.27	NR Band n71
Appendix B.28	NR Band n77(3450-3550)
Appendix B.29	NR Band n77(3700-3980)

---End of Report---



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