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TEST REPORT

Application No:	ZR/2022/10022
Applicant:	Fibocom Wireless Inc.
Address of Applicant:	1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China
Manufacturer:	Fibocom Wireless Inc.
Address of Manufacturer:	1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China
EUT Description:	5G Module
Model No.:	FM160-NA
Trade Mark:	Fibocom
FCC ID:	ZMOFM160NA
Standards:	47 CFR Part 2 47 CFR Part 22 47 CFR Part 24 47 CFR Part 27 47 CFR Part 90
Date of Receipt:	2022/3/10
Date of Test:	2022/3/15 to 2022/5/24
Date of Issue:	2022/5/24
Test Result:	PASS *

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

Authorized Signature:

Sun Panta

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Panta Sun Wireless Laboratory Manager



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1 Version

Revision Record					
Version	Chapter	pter Date Modifier Remark			
01		2022/5/24		Original	

Prepared By	weller lin
	(Weller Liu) / Test Supervisor
Checked By	wen wei
	(Well Wei) / Reviewer



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2 Test Summary

2.1 NR Band n2(ENDC DC_5A-n2A/ DC_12A-n2A/ DC_13A-n2A/ /DC_30A-n2A /DC_66A-n2A)

Test Item	ECC Bula No	Boquiromonto	Toot Booult	Verdict
	FCC Rule No.	Requirements	Test Result	veraict
Effective (Isotropic) Radiated Power	§2.1046, §24.232(c)	EIRP ≤ 2 W	Section 1 of	Pass
Output Data	č ()		Appendix B	
Peak-Average Ratio	§24.232(d)	Limit≤13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of	Pass
			Appendix B	
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of	Pass
		EBW. NO IIIIIL.	Appendix B	
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	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 6 of Appendix B	Pass
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	≤ -13 dBm/1 MHz.	Section 7 of Appendix B	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §24.235	Within authorized bands of operation/frequency block.	Section 8 of Appendix B	Pass



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2.2 NR Band n5(ENDC DC_2A-n5A/ DC_12A-n5A / DC_13A-n5A/ DC_30A-n5A/ DC_48A-n5A/ DC_66A-n5A)

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	Pass
Peak-Average Ratio	§22.913(d)	Limit≤13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass
Bandwidth	§2.1049	$\S2.1049$ OBW: No limit. EBW: No limit. EBW: No limit. $\S2.1051$, $\S22.917(a)$ $\le -13 \text{ dBm/1\%*EBW}$, in 1 MHz bands immediately outside and adjacent to the frequency block. $\S2.1051$, $\S22.917(a)$ FCC: $\le -13 \text{ dBm/100 kHz}$, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges. $\S2.1053$, $\S22.917(a)$ FCC: $\le -13 \text{ dBm/100 kHz}$.		Pass
Band Edges Compliance	•			Pass
Spurious Emission at Antenna Terminals	•			Pass
Field Strength of Spurious Radiation				Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §22.355	≤ ±2.5ppm.	Section 8 of Appendix B	Pass



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2.3 NR Band n12

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	ERP ≤ 3 W.	Section 1 of Appendix B	Pass
Peak-Average Ratio		Limit≤13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B	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 5 of Appendix B	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Section 6 of Appendix B	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	FCC: ≤ -13 dBm/100 kHz.	Section 7 of Appendix B	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Section 8 of Appendix B	Pass



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Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §90.542(d)	ERP ≤ 3 W.	Section 1 of Appendix B	Pass
Peak-Average Ratio		Limit≤13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B	Pass
Emission Mask	§2.1051 §90.210(n)	Transmitters designed for operation under this part on frequencies other than listed in this section must meet the emission Mask B. Equipment operating under this part on frequencies allocated to but shared with the Federal Government, must meet the applicable Federal Government technical standards (b) Emission Mask B. For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows: (1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.(2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB(3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 35 dB(3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 35 dB(3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 35 dB(3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 43 + 10 log (P) dB.	Section 5 of Appendix B	Pass
Band Edges Compliance	§2.1051 §90.543(e)(2)(3)	(1) On all frequencies between 769- 775 MHz and 799-805 MHz, by a factor not less than 76 + 10 log (P)	Section 6 of Appendix B	Pass

2.4 NR Band n14



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		dB in a 6.25 kHz band segment, for base and fixed stations.(2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.		
Spurious Emission at Antenna Terminals	§2.1051, §90.543(c) §90.543(f)	 FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges. For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/ MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. 	Section 7 of Appendix B	
Field Strength of Spurious Radiation	§2.1053, §90.543(c) §90.543(f)	FCC: ≤ -13 dBm/100 kHz. For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/ MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.	Section 8 of Appendix B	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §90.213	Within authorized bands of operation/frequency block.	Section 9 of Appendix B	Pass



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2.5 NR Band n25(ENDC DC_12A-n25A/ DC_48A-n25A/ DC_66A-n25A)

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	Pass
Peak-Average Ratio	§24.232(d)	Limit≤13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B	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	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 6 of Appendix B	Pass
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	≤ -13 dBm/1 MHz.	Section 7 of Appendix B	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §24.235	Within authorized bands of operation/frequency block.	Section 8 of Appendix B	Pass



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2.6 NR Band n30(ENDC DC_2A-n30A/ DC_5A-n30A/ DC_12A-n30A/ DC_66A-n30A)

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Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(a)(3)	EIRP ≤ 250mW/5MHz	Section 1 of Appendix B	Pass
Peak-Average Ratio		FCC: Limit≤13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass
Bandwidth	§2.1049,	OBW: No limit. EBW: No limit.	Section 4 of Appendix B	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 5 of Appendix B	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(a)(4)	Fight is based based 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;	Section 6 of Appendix B	Pass



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		 (ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) 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)	≤ -13 dBm/1 MHz.	Section 7 of Appendix B	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	within the range of the operating frequency blocks	Section 8 of Appendix B	Pass



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2.7 NR Band n41(ENDC DC_2A-n41A/ DC_66A-n41A)

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Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective		Requiremento	Test Nesult	Vertuiet
(Isotropic) Radiated Power Output Data	§2.1046, §27.50(h)(2)	EIRP ≤ 2W	Section 1 of Appendix B	Pass
Peak-Average Ratio		≤13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B	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, where X is the greater of 6 megahertz or the actual emission bandwidth as de ned 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 5 of Appendix B	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)	Channel Edge -25 dBm/ 1 MHz 9 kHz 9 kHz X=Max {6MHz, EBW}	Section 6 of Appendix B	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(m)	25 dBm/ 1 MHz 9 kHz 25 dBm/ 1 MHz 3 kHz 25 dBm/ 1 MHz 4 mHz 25 dBm/ 1 MHz 4 mHz 25 dBm/ 1 MHz 4 mHz 4 mHz 5 mHz X=Max 6 dHz, EBW	Section 7 of Appendix B	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Section 8 of Appendix B	Pass



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2.8 NR Band n66(ENDC DC_2A-n66A/ DC_5A-n66A / DC_12A-n66A / DC_13A-n66A / DC_30A-n66A/ DC_48A-n66A)/ 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	Pass
Peak-Average Ratio	§27.50(d)(5)	Limit≤13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B	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	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 6 of Appendix B	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	≤ -13 dBm/1 MHz.	Section 7 of Appendix B	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Section 8 of Appendix B	Pass



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2.9 NR Band n71(ENDC DC_2A-n71A/ DC_66A-n71A)

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Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	EIRP ≤ 3 W	Section 1 of Appendix B	Pass
Peak-Average Ratio		Limit≤13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B	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 5 of Appendix B	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 6 of Appendix B	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	≤ -13 dBm/1 MHz.	Section 7 of Appendix B	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	within the authorized bands of operation.	Section 8 of Appendix B	Pass



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2.10 NR Band n77(ENDC DC_2A-n77A/ DC_5A-n77A / DC_12A-n77A/ DC_13A-n77A / DC_66A-n77A)

3700-3980MHz:

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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	Pass
Peak-Average Ratio		≤13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B	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 5 of Appendix B	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(I)(2)	not exceed -13 dBm/MHz.	Section 6 of Appendix B	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(I)(2)	not exceed -13 dBm/MHz	Section 7 of Appendix B	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/frequency block.	Section 8 of Appendix B	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	Pass
Peak-Average Ratio	§27.50(k)(4)	FCC: Limit≤13 dB	Section 2 of Appendix B	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B	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	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 6 of Appendix B	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 7 of Appendix B	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §27.54	Within authorized bands of operation/ frequency block.	Section 8 of Appendix B	Pass



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3 General Information

3.1 Client Information

Applicant:	Fibocom Wireless Inc.
Address of Applicant:	1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China
Manufacturer:	Fibocom Wireless Inc.
Address of Manufacturer:	1101, Tower A, Building 6, Shenzhen International Innovation Valley, Dashi 1st Rd, Nanshan, Shenzhen, China

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:	Weller Liu, King-p 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 accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



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3.4 General Description of EUT

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EUT Description:	5G Mod	ule					
Model No.:	FM160-1	FM160-NA					
Trade Mark:	Fibocom	1					
Hardware Version:	V1.1	V1.1					
Software Version:	89610.1	89610.1000.00.02.01.01					
Sample Type:	🗌 Porta	ible Device, 🖾 Mo	dule				
Antenna Type:	🛛 Exter	mal, 🗌 Integrated					
Support HUPE Band:	NR Band	d n41; NR Band n	77				
Support UL_MIMO Band:	NR Band n41; NR Band n77						
	Provided by client						
	n2:	2.63dBi(ANT0)	2.62dBi(ANT3)				
	n5:	1.32dBi(ANT0)					
	n12:	1.61dBi(ANT3)					
	n14:	2.19dBi(ANT3)					
Antenna Gain*:	n25:	1.93dBi(ANT0)	1.93dBi(ANT3)				
Antenna Gain .	n30:	0.22dBi(ANT0)					
	n41:	1.52dBi(ANT0)	1.52dBi(ANT3)				
	n66:	3.76dBi(ANT0)	3.76dBi(ANT3)				
	n70:	3.76dBi(ANT0)					
	n71:	1.39dBi(ANT3)					
	n77:	-0.13dBi(ANT0)	-0.13dBi(ANT3)				
	Provid	ded by client					
RF Cable*:	0.8dB (E	Below 1GHz)	1.0dB(1.0~2.4GHz)	1.2dB(2.4~3.5GHz)			
	1.5dB(3.5~4.5GHz)						

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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 mode(s)	are selected according to relevant radio technology specifications.		

3.6 Test Environment

Environment Parameter	101.0 kPa Sele	101.0 kPa Selected Values During Tests			
Relative Humidity44-46 % RH Ambient					
Value	Temperature(°C)	Voltage(V)			
NTNV	22~25	3.8			
LTLV	-30	3.135			
LTHV	-30	4.4			
HTLV	50	3.135			
HTHV	50	4.4			
•	Low Extreme Test Voltage Low Extreme Test Temperature	HV: High Extreme Test Voltage HT: High Extreme Test Temperature			

3.7 Description of Support Units

Description	Manufacturer	Model No.				
Mother board	Fibocom	EVB-M2V1.2				
Adapter	Jiyin	TEKA018-1201500UK				
Remark: all above the information of table are provided by client.						



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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 MHz	869 to 894 MHz
	NR Band n12	699 to 716 MHz	729 to 746 MHz
	NR Band n14	788 to 798 MHz	758 to 768 MHz
	NR Band n25	1850 to 1915MHz	1930 to 1995 MHz
Supported Frequency Range	NR Band n30	2305 to 2315 MHz	2350 to 2360 MHz
	NR Band n41	2496 to 2690 MHz	2496 to 2690 MHz
	NR Band n66	1710 to 1780 MHz	2110 to 2180 MHz
	NR Band n70	1695 to 1710 MHz	1995 to 2020 MHz
	NR Band n71	663 to 698 MHz	617 to 652 MHz
	NR Band n77	3700 to 3980 MHz	3700 to 3980 MHz
		3450 to 3550 MHz	3450 to 3550 MHz
	NR Band n2	SCS 15kHz:	
		⊠5 MHz ⊠10 MH	z 🛛 🖂 15 MHz 🖾 20 MHz
	NR Band n5	SCS 15kHz:	
		⊠5 MHz ⊠10 MH	z 🛛 🖂 15 MHz 🖾 20 MHz
	NR Band n12	SCS 15kHz:	
		⊠5 MHz ⊠10 MH	z 🛛 15 MHz
	NR Band n14	SCS 15kHz:	
		⊠5 MHz ⊠10 MH	Z
Supported Channel		SCS 15kHz:	
Bandwidth	NR Band n25	⊠5 MHz ⊠10 MH	z 🛛 🖂 15 MHz 🖾 20 MHz
		⊠25 MHz ⊠30 MH	z 🛛 40 MHz
	NR Band n30	SCS 15kHz:	
		⊠5 MHz ⊠10 MH	Ζ;
		SCS 30kHz:	
	NR Band n41	⊠20 MHz ⊠30 MH	z 🛛 🖾 40 MHz 🖾 50 MHz
		⊠60 MHz ⊠70 MH	z 🛛 🛛 80 MHz 🖾 90 MHz
		⊠100 MHz	
	NR Band n66	SCS 15kHz:	



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			Report Rev.: Page:	0		2022/1002202 2
		⊠5 MHz	⊠10 MHz	⊠15 N	ЛНz	⊠20 MHz
		30 MHz	⊠40 MHz			
NF		SCS 15kHz:				
	NR Band n70	⊠5 MHz	⊠10 MHz	⊠15 N	ЛНz	
		SCS 15kHz:				
	NR Band n71	⊠5 MHz	⊠10 MHz	⊠15 N	ЛНz	⊠20 MHz
		SCS 30kHz				
		10 MHz	🛛 15 MHz	⊠20 M	ЛНz	⊠30 MHz
	NR Band n77	⊠40 MHz	⊠50 MHz	⊠60 N	ЛНz	⊠70 MHz
		80 MHz	⊠90 MHz	⊠100	MHz	
		DFT- PI2BPSK	CP-16QAM			
	NR Band n2	SCS 15kHz:				
		4M48G7D	4M48W7D			
		8M93G7D	9M30W7D			
		13M4G7D	14M1W7D			
		17M9G7D	18M9W7D			
		SCS 15kHz:				
		4M48G7D	4M48W7D			
Designation of	NR Band n5	8M91G7D	9M28W7D			
Emissions (Remark: the necessary		13M4G7D	14M1W7D			
bandwidth of which is		17M9G7D	18M9W7D			
the worst value from		SCS 15kHz:				
the measured occupied bandwidths for each	NR Band n12	4M48G7D	4M47W7D			
type of channel		8M91G7D	9M29W7D			
bandwidth		13M4G7D	14M1W7D			
configuration.)		SCS 15kHz:				
	NR Band n14	4M48G7D	4M49W7D			
		8M95G7D	9M28W7D			
		SCS 15kHz:				
		4M49G7D	4M48W7D			
	NR Band n25	8M93G7D	9M30W7D			
		13M5G7D	14M1W7D			
		17M9G7D	18M9W7D			
		22M9G7D	23M8W7D			



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	28M6G7D	Page: 28M6W7D	23 of 52
	38M5G7D	38M6W7D	
	SCS 15kHz:	30101070	
ND Dand #20			
NR Band n30	4M48G7D		
	8M93G7D	9M28W7D	
	SCS 30kHz:		
	17M9G7D	18M3W7D	
	26M9G7D	27M9W7D	
	35M8G7D	37M9W7D	
NR Band n41	45M8G7D	47M5W7D	
	57M9G7D	57M9W7D	
	64M3G7D	67M5W7D	
	77M2G7D	77M6W7D	
	85M7G7D	87M4W7D	
	96M3G7D	97M7W7D	
	SCS 15kHz:		
	4M47G7D	4M49W7D	
	8M93G7D	9M30W7D	
NR Band n66	13M4G7D	14M1W7D	
	17M9G7D	19M0W7D	
	28M6G7D	28M6W7D	
	38M8G7D	38M6W7D	
	SCS 15kHz:		
	4M48G7D	4M48W7D	
NR Band n70	8M92G7D	9M30W7D	
	13M4G7D	14M1W7D	
	SCS 15kHz:		
	4M48G7D	4M48W7D	
NR Band n71	8M91G7D	9M27W7D	
	13M4G7D	14M1W7D	
	17M9G7D	18M9W7D	
	SCS 30kHz:		
NR Band n77	8M60G7D	8M62W7D	
(3450-3550)	12M9G7D	13M6W7D	
	121010070		



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		17M9G7D	18M2W7D	
		26M8G7D	27M9W7D	
		35M8G7D	37M9W7D	
		45M7G7D	47M4W7D	
		57M9G7D	57M9W7D	
		64M2G7D	67M5W7D	
		77M2G7D	77M7W7D	
		85M7G7D	87M4W7D	
		96M3G7D	97M5W7D	
		SCS 30kHz:		
		8M58G7D	8M60W7D	
		12M9G7D	13M6W7D	
		17M9G7D	18M2W7D	
		26M8G7D	27M9W7D	
	R Band n77	35M8G7D	37M9W7D	
(3	5700-3980)	45M7G7D	47M4W7D	
		57M9G7D	57M9W7D	
		64M3G7D	67M5W7D	
		77M3G7D	77M7W7D	
		85M7G7D	87M4W7D	
		96M3G7D	97M5W7D	



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3.9 Test Frequencies

3.9.1 Reference test frequencies for NR operating band n23.9.1.1 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	
5		Low	1852.5	370500	
	Uplink	Mid	1880	376000	-
		High	1907.5	381500	
		Low	1935	387000	
	Downlink	Mid	1960	392000	15
10		High	1985	397000	1
10		Low	1855	371000	-
	Uplink	Mid	1880	376000	
		High	1905	381000	
		Low	1937.5	387500	
	Downlink	Mid	1960	392000	15
15		High	1982.5	396500	
15		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

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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	
5		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	
15		Low	831.5	166300	
	Uplink	Mid	836.5	167300] -
	-	High	841.5	168300]
		Low	879	175800	
00	Downlink	Mid	881.5	176300	15
		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 n12

S

3.9.3.1 I es Bandwidth	t frequencies for Rang	<u> </u>	Carrier centre	Carrier centre	SS block SCS
[MHz]			[MHz]	[ARFCN]	[kHz]
		Low	731.5	146300	
	Downlink	Mid	737.5	147500	15
5		High	743.5	148700	
5		Low	701.5	140300	
	Uplink	Mid	707.5	141500]
		High	713.5	142700	
		Low 734	146800		
	Downlink	Mid	737.5	147500	15
10		High	741	148200	
10		Low	704	140800	
	Uplink	Mid	707.5	141500]
		High	711	142200	
		Low	736.5	147300	
	Downlink	Mid	737.5	147500	15
15		High	738.5	147700	
15 -		Low	706.5	141300	
	Uplink	Mid	707.5	141500]
		High	708.5	141700]



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3.9.4 Reference test frequencies for NR operating band n14

S

Bandwidth [MHz]	Rang	e	Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
		Low	760.5	151200	
	Downlink	Mid	763	152600	15
5		High	765.5	153100	
5		Low	790.5	158100	
	Uplink	Mid	793	158600	
		High	795.5	159100	
		Low	/	/	
	Downlink	Mid	763	152600	15
10		High	1	1	
10		Low	1	1	
	Uplink	Mid	763	152600	
		High	1	1	



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3.9.5 Reference test frequencies for NR operating band n25

S

3.9.5.1 Test frequencies for NR operating band n25 and SCS 15 kHz							
CBW [MHz]	Range		Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]		
		Low	1932.5	386500			
	Downlink	Mid	1962.5	392500	15		
F		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			
	1	High	1910	382000	1		
		Low	1937.5	387500			
	Downlink	Mid	1962.5	392500	15		
		High	1987.5	397500	-		
15 -		Low	1857.5	371500			
	Uplink	Mid	1882.5	376500			
		High	1907.5	381500	-		
	Downlink	Low	1940	388000			
		Mid	1962.5	392500	15		
		High	1985	397000			
20	Uplink	Low	1860	372000			
		Mid	1882.5	376500			
	Opinik	High	1905	381000	-		
		Low	1942.5	388500			
	Downlink	Mid	1962.5	392500	15		
	DOWININK	High	1982.5	396500	- 15		
25 -		Low	1862.5	372500			
	Uplink	Mid	1882.5	376500	-		
	Opinik	High	1902.5	380500			
		Low	1902.5	389000			
	Downlink	Mid	1945	392500	15		
	DOWININK	High	1980	396000			
30		Low	1980	373000			
	Uplink	Mid	1865	373000	-		
	оршик		1900	376500			
		High	1900				
	Downlink	Low Mid	1950	<u>390000</u> 392500	15		
	DOMININK		1962.5	392500			
40		High					
	L In Barl	Low	1870	374000	-		
	Uplink	Mid	1882.5	376500			
		High	1895	379000			



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3.9.6 Reference test frequencies for NR operating band n30

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Bandwidth [MHz]	Rang	e	Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
		Low	2352.5	470500	
	Downlink	Mid	2355	471000	15
5		High	2357.5	471500	
5		Low	2307.5	461500	
	Uplink	Mid	2310	462000]
		High	2312.5	462500	
		Low	1	1	
	Downlink	Mid	2355	471000	15
40		High	1	/	
10		Low	1	1	
	Uplink	Mid	2310	462000]
		High	1	/]



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3.9.7 Reference test frequencies for NR operating band n41

S

CBW	t frequencies for NR operating ba Range		Carrier centre Carrier cent		
[MHz]		1 .	[MHz]	[ARFCN]	[kHz]
	Downlink	Low	2501.01	500202	-
10	&	Mid	2592.99	518598	
	Uplink	High	2685	537000	
	Downlink	Low	2503.5	500700	_
15	&	Mid	2592.99	518598	
	Uplink	High	2682.48	536496	
	Downlink	Low	2506.02	501204	
20	&	Mid	2592.99	518598	30
	Uplink	High	2670	534000	
	Downlink	Low	2511	502200	
30	&	Mid	2592.99	518598	30
	Uplink	High	2675	535000	
	Downlink	Low	2516.01	503202	
40	&	Mid	2592.99	518598	
	Uplink	High	2670	534000	
	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	
	Downlink	Low	2536.02	507204	
70	&	Mid	2592.99	518598	30
	Uplink	High	2649.99	529998	
	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	
	Uplink	High	2644.98	528996	
	Downlink	Low	2546.01	509202	
100	&	Mid	2592.99	518598	30
	Uplink	High	2640	528000	



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3.9.8 Reference test frequencies for NR operating band n66

SG

CBW [MHz]	Range	•	and n66 and SCS Carrier centre [MHz]	Carrier centre [ARFCN]	SS block SCS [kHz]
		Low	2112.5	422500	
	Downlink	Mid	2145	429000	15
F		High	2177.5	435500	
5 -		Low	1712.5	342500	
	Uplink	Mid	1745	349000	-
	·	High	1777.5	355500	
		Low	2115	423000	
	Downlink	Mid	2145	429000	15
10		High	2175	435000	1
10 -		Low	1715	343000	
	Uplink	Mid	1745	349000	1 -
		High	1775	355000	1
		Low	2117.5	423500	
	Downlink	Mid	2145	429000	15
		High	2172.5	434500	
15 -		Low	1717.5	343500	
	Uplink	Mid	1745	349000	1 -
		High	1772.5	354500	1
		Low	2120	424000	
	Downlink	Mid	2145	429000	15
		High	2170	434000	-
20 -		Low	1720	344000	
	Uplink	Mid	1745	349000	
		High	1770	354000	1
		Low	2125	425000	
	Downlink	Mid	2145	429000	15
		High	2165	433000	1
30 -		Low	1725	345000	
	Uplink	Mid	1745	349000	1 -
		High	1765	353000	1
		Low	2130	426000	
	Downlink	Mid	2145	429000	15
40	-	High	2160	432000	
40		Low	1730	346000	
	Uplink	Mid	1745	349000	1 -
	- F	High	1760	352000	1



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3.9.9 Reference test frequencies for NR operating band n70

S

3.9.9.1 Ies Bandwidth	t frequencies for Rang	<u> </u>	Carrier centre	Carrier centre	SS block SCS
[MHz]	J		[MHz]	[ARFCN]	[kHz]
		Low	1997.5	399500	
	Downlink	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	
		Low	/	/	
	Downlink	Mid	2002.5	400500	15
15		High	/	/]
10		Low	/	/	
	Uplink	Mid	1702.5	340500]
	-	High	1	1	



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3.9.10 Reference test frequencies for NR operating band n71 3.9.10.1 Test frequencies for NR operating band n71 and SCS 15 kHz

S

CBW	Range		Carrier centre	Carrier centre	SS block SCS
[MHz]			[MHz]	[ARFCN]	[kHz]
		Low	619.5	123900	
	Downlink	Mid	634.5	126900	15
5		High	649.5	129900	
5		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	7
10		Low	668	133600	
	Uplink	Mid	680.5	136100	- 1
		High	693	138600	
		Low	624.5	124900	
	Downlink	Mid	634.5	126900	15
15		High	644.5	128900	
15		Low	670.5	134100	
	Uplink	Mid	680.5	136100	- [
	-	High	690.5	138100	7
		Low	627	125400	
	Downlink	Mid	634.5	126900	15
20		High	642	128400	1
20		Low	673	134600	
	Uplink	Mid	680.5	136100] -
		High	688	137600	7



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3.9.11 Reference test frequencies for NR operating band n77

3.9.11.1 Test frequencies for NR operating band n77 and SCS 30 kHz

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37	UU-	59	ืดบ	12

S

CBW [MHz]	Range	9	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	3714.99	647666	
30	&	Mid	3840	656000	30
	Uplink	High	3965.01	664334	
	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	3735	649000	
70	&	Mid	3840	656000	30
	Uplink	High	3945	663000	
	Downlink	Low	3740.01	649334	
80	&	Mid	3840	656000	30
	Uplink	High	3939.99	662666	1
	Downlink	Low	3745.02	649668	30
90	&	Mid	3840	656000	
	Uplink	High	3934.98	662332	
	Downlink	Low	3750	650000	
100	&	Mid	3840	656000	30
	Uplink	High	3930	662000	1



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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	3465	631000	
30	&	Mid	3500.01	633334	30
	Uplink	High	3534.99	635666	
	Downlink	Low	3470.01	631334	30
40	&	Mid	3500.01	633334	
	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	3485.01	632334	
70	&	Mid	3500.01	633334	30
	Uplink	High	3515.01	634334	
	Downlink	Low	3490.02	632668	
80	&	Mid	3500.01	633334	30
	Uplink	High	3510	634000	1
	Downlink	Low	3495	633000	30
90	&	Mid	3500.01	633334	
	Uplink	High	3504.99	633666	1
	Downlink	Low	\	\	
100	&	Mid	3500.01	633334	30
	Uplink	High	\	1	1



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4 Description of Tests

S

4.1 Conducted Output Power

Measurement Procedure: FCC KDB 971168 D01 V03r01

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 ; ANSI/C63.26 (2015) 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 Occupied Bandwidth

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 4.2

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
- 3. VBW ≥ 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



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4.4 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 > 1% of the emission bandwidth
- VBW ≥ 3 x RBW
- 5. Detector = RMS
- 6. Number of sweep points ≥ 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



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4.5 Spurious And Harmonic Emissions at Antenna Terminal

Measurement Procedure: FCC KDB 971168 D01 V03r01

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

- Start frequency was set to 30MHz and stop frequency was set to at least 10 * the fundamental frequency (separated into at least two plots per channel)
- Detector = RMS
- 3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
- 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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4.6 Peak-Average Ratio

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.7.1

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



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4.7 Field Strength of Spurious Radiation

Measurement Procedure: FCC KDB 971168 D01 V03r01

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 (dBµV/m) = Measured amplitude level (µV/m) + (Cable Loss (dB) + Antenna Factor (dB/m) AMP(dB))
 EIRP (dBm) = E (dBµV/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 (dBµV/m) = Measured amplitude level (dBµV) + (Cable Loss (dB) + Antenna Factor (dB/m) AMP(dB))
 EIRP (dBm) = E (dBµV/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

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

Final Test Level =Receiver Reading + Factor(Antenna Factor + Cable Factor – Preamplifier Factor) 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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4.8 Frequency Stability / Temperature Variation

Measurement Procedure:

Frequency stability testing is performed in accordance with the guidelines of FCC KDB 971168 D01 V03r01; ANSI/C63.26 (2015)

- . 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 $\pm 0.00025\%$ (± 2.5 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



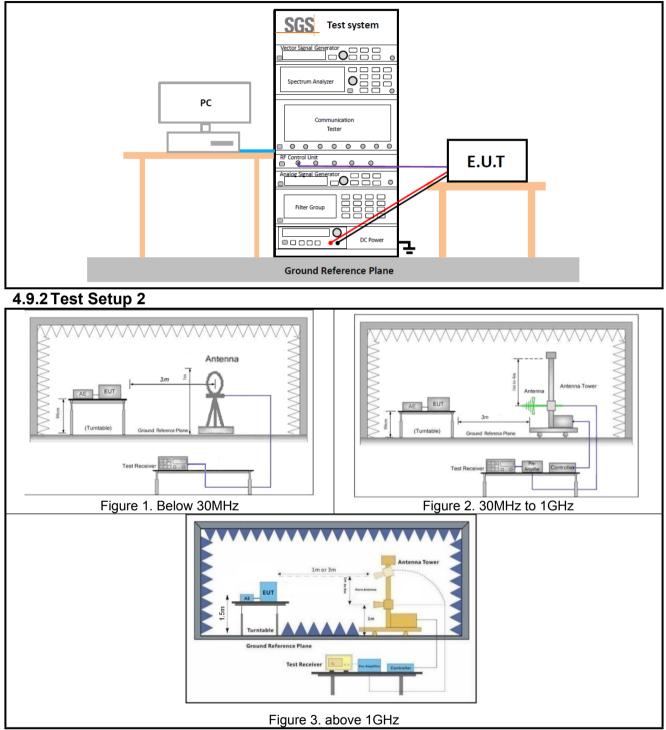
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4.9 Test Setups





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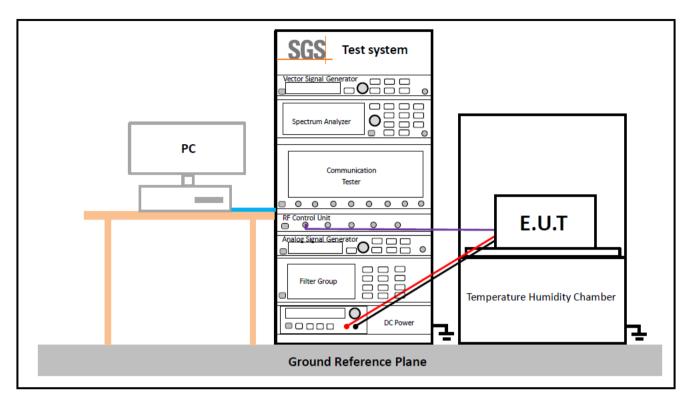
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4.9.3 Test Setup 3





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4.10 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; NR/TM6; NR/TM7; NR/TM8; NR/TM9			
	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			
	Modulation Characteristics			
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 - Occupied Bandwidth			
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; 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)	L, M, H (L= low channel, M= middle channel, H= high channel)			
Test Mode	NR/TM1; NR/TM2; NR/TM3; NR/TM4; NR/TM5; NR/TM6; NR/TM7; NR/TM8; NR/TM9			



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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			
	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: If applicable, the EUT conf. that has maximum power density (based on the equivalent power level) is selected.			
	Frequency Stability			
Test Case	Test Conditions			
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			



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Main Test Instruments 5

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RF conducted test					
Tost Equipmont	Test Equipment Manufacturer Model No. Inventory No.	Madal Na		Cal. date	Cal.Due date
		inventory No.	(yyyy-mm- dd)	(yyyy-mm- dd)	
Shielding Room	Brilliant-emc	N/A	SUWI-04-01-06	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/2/16	2023/2/15
Signal Analyzer	ROHDE&SCHW ARZ	FSV3030	SUWI-01-02-02	2021/5/28	2022/5/27
Measurement Software	Tonscend	JS1120-3 Test System V	SUWI-02-09-09	NCR	NCR
Wideband Radio Communication Tester	Anritsu	2.6.88.0336 MT8821C	SUWI-01-26-03	2021/12/4	2022/12/3
Wideband Radio Communication Tester	ROHDE&SCHW ARZ	CMW500	SUWI-01-16-05	2022/2/14	2023/2/13
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2021/6/10	2022/6/9
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/2/15	2023/2/14
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2021/12/4	2022/12/3
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2021/12/4	2022/12/3
Radio Communication Analyzer	StarPoint	SP9500	SUWI-01-28-01	2021/9/28	2022/9/27
Signal Analyzer	ROHDE&SCHW ARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27



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	RSE Test System				
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/2/16	2023/2/15
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-05	2021/12/4	2022/12/3
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2022/2/19	2023/2/18
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9163	SUWI-01-11-01	2021/5/16	2023/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2021/5/16	2023/5/15
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2021/5/14	2023/5/13
Active Loop Antenna	SCHWRZBECK MESS-ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	2021/6/10	2022/6/9
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/2/15	2023/2/14
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/2/15	2023/2/14
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/2/19	2023/2/18
Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-16-08	2022/2/15	2023/2/14
Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	2021/12/4	2022/12/3
UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	SUWI-01-04-01	2022/2/14	2023/2/13
Measurement Software	Tonscend	JS32-RE V4.0.0.0	SUWI-02-09-04	NCR	NCR
Measurement Software	Tonscend	JS32-RSE V4.0.0.1	SUWI-02-09-06	NCR	NCR



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6 Measurement Uncertainty

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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	±7.25x 10 ⁻⁸ GHz
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	±7.25x 10 ⁻⁸ GHz
7		± 3.13dB (9K to 30MHz)
	Radiated Emission	± 4.8dB (30MHz to 1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.8dB (Above 18GHz)



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7 Appendixes

Appendix A.2	WWAN Setup Photos
Appendix B.11	NR Band n2
Appendix B.12	NR Band n5
Appendix B.13	NR Band n12
Appendix B.14	NR Band n14
Appendix B.15	NR Band n25
Appendix B.16	NR Band n30
Appendix B.17	NR Band n41
Appendix B.18	NR Band n41 MIMO
Appendix B.19	NR Band n66
Appendix B.20	NR Band n70
Appendix B.21	NR Band n71
Appendix B.22	NR Band n77 3450-3550
Appendix B.23	NR Band n77 3700-3980
Appendix B.24	NR Band n77 3450-3550 MIMO
Appendix B.25	NR Band n77 3700-3980 MIMO

The End



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