Report No.:
 SEWA2204000008RG01

 Rev.:
 01

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# **TEST REPORT**

Test Result :	PASS *
Date of Issue:	2022/7/19
Date of Test:	2022/4/15 to 2022/7/19
Date of Receipt:	2022/4/14
	47 CFR Part 90
	47 CFR Part 27
	47 CFR Part 24
Standards:	47 CFR Part 2 47 CFR Part 22
FCC ID:	XMR2022RM520NGL
Trade Mark:	Quectel
Model No.:	RM520N-GL
EUT Description:	5G Sub-6 GHz M.2 Module
Address of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Manufacturer:	Quectel Wireless Solutions Co., Ltd.
Address of Applicant:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233
Applicant:	Quectel Wireless Solutions Co., Ltd.
Application No.:	SEWA220400008RG

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

Authorized Signature :

Panta Sun

Panta Sun Wireless Laboratory Manager



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#### Version 1

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		<b>Revision Record</b>		
Version	Chapter	Date	Modifier	Remark
01		2022/7/19		Original

Prepared By	Weller Liu) / Test Supervisor
Checked By	(Well Wei) / Reviewer

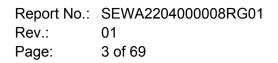


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#### 2 **Test Summary**

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#### 2.1 UMTS Band 5/LTE Band 5/26(824~849 MHz)/LTE CA\_5B

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913(a)(5)	ERP ≤ 7 W	Section 1 of Appendix B.1&4&12&21	Pass
Peak-Average Ratio	§22.913(d)	Limit≤13 dB	Section 2 of Appendix B.1&4&12&21	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.1&4&12&21	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.1&4&12&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 5 of Appendix B.1&4&12&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 6 of Appendix B.1&4&12&21	Pass
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	- FCC: ≤ -13 dBm/100 kHz.	Section 7 of Appendix B.1&4&12&21	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §22.355	≤ ±2.5ppm.	Section 8 of Appendix B.1&4&12&21	Pass



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#### 2.2 UMTS Band 2 /LTE Band 2 /25/LTE CA 2C

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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.1&2&10&20	Pass
Peak-Average Ratio	§24.232(d)	Limit≤13 dB	Section 2 of Appendix B.1&2&10&20	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.1&2&10&20	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.1&2&10&20	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.1&2&10&20	Pass
Spurious Emission at Antenna Terminals	§2.1051, §24.238(a)	≤ -13 dBm/1 MHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges.	Section 6 of Appendix B.1&2&10&20	Pass
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	≤ -13 dBm/1 MHz.	Section 7 of Appendix B.1&2&10&20	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.1&2&10&20	Pass



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#### 2.3 UMTS Band 4 /LTE Band 4 /66/LTE CA 66B/ LTE CA 66C

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.1&3&18&26&27	Pass
Peak-Average Ratio	§27.50(d)(5)	Limit≤13 dB	Section 2 of Appendix B.1&3&18&26&27	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.1&3&18&26&27	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.1&3&18&26&27	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.1&3&18&26&27	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(h)	<ul> <li>≤ -13 dBm/1 MHz, from 9 kHz to 10<sup>th</sup> harmonics but outside authorized operating frequency ranges.</li> </ul>	Section 6 of Appendix B.1&3&18&26&27	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	≤ -13 dBm/1 MHz.	Section 7 of Appendix B.1&3&18&26&27	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.1&3&18&26&27	Pass



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### 2.4 LTE Band 7/38/41/CA\_7C/ CA\_38C/ CA\_41C

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Test Item	FCC Rule No.	Requirements	Test Result	Verdic t
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(h)(2)	EIRP ≤ 2W	Section 1 of Appendix B.5&14&15&22&23&2 4	Pass
Peak-Average Ratio		≤13 dB	Section 2 of Appendix B.5&14&15&22&23&2 4	Pass
Modulation Characteristic s	§2.1047	Digital modulation	Section 3 of Appendix B.5&14&15&22&23&2 4	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.5&14&15&22&23&2 4	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.5&14&15&22&23&2 4	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)	Channel Edge -25 dBm/ 1 MHz 1 MHz 9 kHz 9 kHz 9 5 MHz X=Max {6MHz, EBW}	Section 6 of Appendix B.5&14&15&22&23&2 4	Pass



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Field Strength of Spurious Radiation	§2.1053, §27.53(m)	9 kHz % 5 MHz XMHz 10th harmonics X=Max {6MHz, EBW}	Section 7 of Appendix B.5&14&15&22&23&2 4	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.5&14&15&22&23&2 4	Pass



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Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	ERP ≤ 3 W.	Section 1 of Appendix B.6&9	Pass
Peak-Average Ratio		Limit≤13 dB	Section 2 of Appendix B.6&9	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.6&9	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.6&9	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.6&9	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10 <sup>th</sup> harmonics but outside authorized operating frequency ranges.	Section 6 of Appendix B.6&9	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	FCC: ≤ -13 dBm/100 kHz.	Section 7 of Appendix B.6&9	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.6&9	Pass

#### 2.5 LTE Band 12/17



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#### 2.6 LTE Band 13

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(b)(10)	ERP ≤ 3 W.	Section 1 of Appendix B.7	Pass
Peak-Average Ratio		Limit≤13 dB	Section 2 of Appendix B.7	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.7	Pass
Band Edges Compliance	§2.1051, §27.53(c)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix B.7	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(c) §27.53(f)	<ul> <li>≤ -13 dBm/100 kHz, from 9 kHz to 10<sup>th</sup> harmonics but outside authorized operating frequency ranges.</li> <li>On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.</li> <li>For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.</li> </ul>	Section 6 of Appendix B.7	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(c) §27.53(f)	FCC: ≤ -13 dBm/100 kHz. For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.	Section 7 of Appendix B.7	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.7	Pass



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#### 2.7 LTE Band 14

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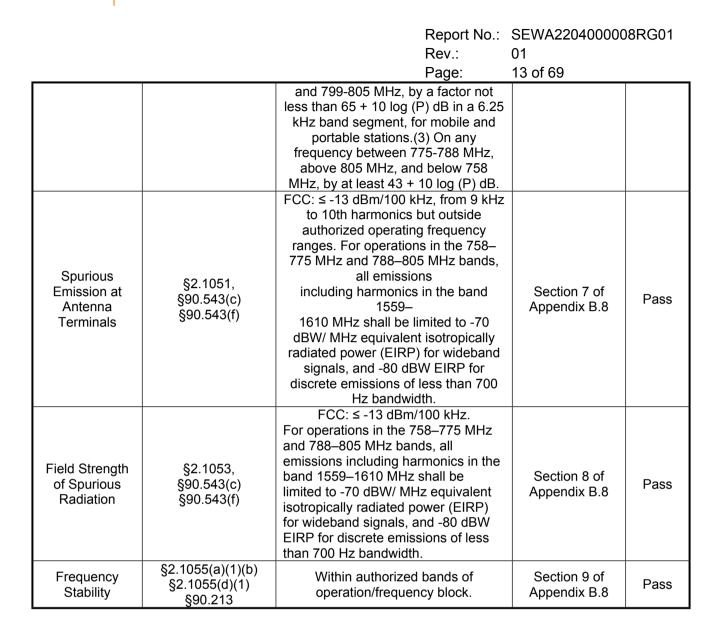
Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §90.542(d)	ERP ≤ 3 W.	Section 1 of Appendix B.8	Pass
Peak-Average Ratio		Limit≤13 dB	Section 2 of Appendix B.8	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.8	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.8	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 requirements of Emission Mask B. Equipment operating under this part on frequencies allocated to but shared with the Federal Government, must meet the applicable Federal Government technical standards (b) Emission Mask B. For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows: (1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.(2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB(3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least 43 + 10 log (P) dB.	Section 5 of Appendix B.8	Pass
Band Edges Compliance	§2.1051 §90.543(e)(2)(3)	<ul> <li>(1) On all frequencies between 769- 775 MHz and 799-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations.(2) On all frequencies between 769-775 MHz</li> </ul>	Section 6 of Appendix B.8	Pass



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#### 2.8 LTE Band 26(814~824 MHz)

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Test Item	FCC Rule No.	Requirements	Test Result	Verdict	
Transmitter Conducted Power Output	§2.1046, §90.635(b)	< 100 W. Section 1 Appendix E		Pass	
Peak-Average Ratio		Limit≤13 dB	Section 2 of Appendix B.11	Pass	
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.11	Pass	
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.11	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 5 of Appendix B.11	Pass	
Spurious Emission at Antenna Terminals	§2.1051, §90.691	< 43 + 10Log10(P[Watts]) for all out-of- band emissions	Section 6 of Appendix B.11	Pass	
Field Strength of Spurious Radiation	§2.1053, §90.691	< 43 + 10Log10(P[Watts]) for all out-of- band emissions	Section 7 of Appendix B.11	Pass	
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(1) §90.213	Within authorized bands of operation/frequency block.	Section 8 of Appendix B.11	Pass	



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#### 2.9 LTE Band 30

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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 ≤ 50mW/1MHz EIRP ≤ 250mW/5MHz	Section 1 of Appendix B.13	Pass
Peak-Average Ratio		FCC: Limit≤13 dB	Section 2 of Appendix B.13	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.13	Pass
Bandwidth	§2.1049,	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.13	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.13	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(a)(4)	<ul> <li>The state between 2320 and 2324 MHz and on all frequencies between 2320 and 2320 MHz, and 10 log (P) dB on all frequencies between 2341 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2345 and 2360 MHz bands (s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2320 and 2324 MHz and on all frequencies between 2345 million (s) of operation, not less than 61 + 10 log (P) dB on all frequencies between 2345 million (s) of operation, not less than 61 + 10 log (P) dB on all frequencies between 2324 mHz, not less than 61 + 10 log (P) dB on all frequencies between 2345 million (s) of operation, not less than 61 + 10 log (P) dB on all frequencies between 2324 mHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 mHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 million (s) of operation, not less than 61 + 10 log (P) dB on all frequencies between 2324 million (s) of operation, not less than 61 + 10 log (P) dB on all frequencies between 2324 million (s) of operation, not less than 61 + 10 log (P) dB on all frequencies between 2324 million (s) of operation, not less than 61 + 10 log (P) dB on all frequencies between 2324 million (s) of operation, not less than 65 + 10 log (P) dB on all frequencies between 2324 million (s) of operation, not less than 65 + 10 log (P) dB on all frequencies between 2324 million (s) of operation, not less than 65 + 10 log (P) dB on all frequencies between 2328 million (s) of operation (s) operati</li></ul>	Section 6 of Appendix B.13	Pass



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		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.13	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.13	Pass



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#### 2.10 LTE Band 42/LTE CA 42C

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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.16&47	Pass
Peak-Average Ratio	§27.50(k)(4)	Limit≤13 dB	Section 2 of Appendix B.16&47	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.16&47	Pass
Band Edges Compliance	§2.1051, §27.53(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.16&47	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(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.16&47	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(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.16&47	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.16&47	Pass



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### 2.11 LTE Band 43/LTE CA\_43C

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3700-3800:					
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.17&25	Pass	
Peak-Average Ratio		≤13 dB	Section 2 of Appendix B. 17&25	Pass	
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B. 17&25	Pass	
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B. 17&25	Pass	
Band Edges Compliance	§2.1051, §27.53(l)(2)	<ul> <li>(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.</li> </ul>	Section 5 of Appendix B. 17&25	Pass	
Spurious Emission at Antenna Terminals	§2.1051, §27.53(I)(2)	not exceed -13 dBm/MHz.	Section 6 of Appendix B. 17&25	Pass	
Field Strength of Spurious Radiation	§2.1053, §27.53(l)(2)	not exceed -13 dBm/MHz	Section 7 of Appendix B. 17&25	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. 17&25	Pass	



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Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	ERP ≤ 3 W	Section 1 of Appendix B.19	Pass
Peak-Average Ratio		Limit≤13 dB	Section 2 of Appendix B.19	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B.19	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B.19	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.19	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	<ul> <li>≤ -13 dBm/1 MHz, from 9 kHz to 10<sup>th</sup> harmonics but outside authorized operating frequency ranges.</li> </ul>	Section 6 of Appendix B.19	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	≤ -13 dBm/1 MHz.	Section 7 of Appendix B.19	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.19	Pass

#### 2.12 LTE Band 71

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#### 3 **General Information**

#### 3.1 Details of Client

S

Applicant:	Quectel Wireless Solutions Co., Ltd.	
Address of Applicant:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233	
Manufacturer:	Quectel Wireless Solutions Co., Ltd.	
Address of Manufacturer:	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, China 200233	

#### 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, 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.
<ul> <li>Innovation, Science and Economic Development Canada</li> </ul>
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

EUT Description:	5G Sub-6 GHz M.2	5G Sub-6 GHz M.2 Module				
Model No.:	RM520N-GL	RM520N-GL				
Trade Mark:	Quectel					
Hardware Version:	R1.0					
Software Version:	RM520NGLAAR01	A06M40	G			
Antenna Type:	External Antenna					
HPUE Power Class:	Class 2: B38; B41;	B42;B4	3			
	Provided by clier	nt				
	WCDMA Band II:	0.91d	Bi	WCDMA Bar	nd IV:	1.47dBi
	WCDMA Band V:	2.68d	Bi			
	LTE Band 2:	0.91dBi(Ant0)		LTE Band 4:		-1.47dBi(Ant0)
	LTE Band 5:	2.68dBi(Ant0)		LTE Band 7:		0.55dBi(Ant0)
	LTE Band 12:	and 12: -0.2dBi		LTE Band 13	8:	1.54dBi(Ant0)
	LTE Band 14:	2.42dBi(Ant0)		LTE Band 17	<b>'</b> :	-0.2dBi(Ant0)
Antenna Gain*:	LTE Band 25:	0.25dBi(Ant0)		LTE Band 26	6:	2.87dBi(Ant0)
Antenna Gain .	LTE Band 30:	-5.7dBi(Ant0)		LTE Band 38	8:	-0.23dBi(Ant0)
	LTE Band 41:	0.78dBi(Ant0)		LTE Band 42	2:	-6.1dBi(Ant2)
	LTE Band 43:	-6.1d	Bi(Ant2)	LTE Band 66	6:	-1.47dBi(Ant0)
	LTE Band 71:	1.22d	Bi(Ant0)	LTE CA_2C:		0.91dBi(Ant0)
	LTE CA_5B:	2.68d	Bi(Ant0)	LTE CA_7C:		0.55dBi(Ant0)
	LTE CA_38C:	-0.230	dBi(Ant0)	LTE CA_410	):	0.78dBi(Ant0)
	LTE CA_43C:	-6.1dBi(Ant2)		LTE CA_66E	8:	-1.47dBi(Ant0)
	LTE CA_66C:	-1.470	dBi(Ant0)	LTE CA_420	):	-6.1dBi(Ant2)
	0.8dB(Below 1GHz	)	1.0dB(1.0~	2.4GHz)	1.2dE	3(2.4~3.4GHz)
RF Cable:	1.5dB(Above 3.4G	dB(Above 3.4GHz)				

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#### 3.5 Test Mode

Test Mode Test Modes Description			
UMTS/TM1	UMTS system, WCDMA, QPSK modulation		
LTE/TM1	LTE system, QPSK modulation		
LTE/TM2	LTE system, 16QAM modulation		
LTE/TM3	LTE system, 64QAM modulation		
LTE/TM4	LTE system, 256QAM modulation		
Remark: The test mode(s) are selected according to relevant radio technology specifications.			

#### 3.6 Test Environment

Environment Parameter	101.0 kPa Selected Values During Tests			
Relative Humidity	44-46 % RH Ambient			
Value	Temperature(°C) Voltage(V)			
NTNV	22-23	3.7		
LTLV	-30	3.14		
LTHV	-30	4.4		
HTLV	50	3.14		
HTHV	50	4.4		
e e e e e e e e e e e e e e e e e e e	w Extreme Test Voltage w Extreme Test Temperature	HV: High Extreme Test Voltage HT: High Extreme Test Temperature		

### 3.7 Description of Support Units

Description	Manufacturer	Model No.				
Test auxiliary PCB board	Quectel	N/A				
Remark: all above the information of table are provided by client.						



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#### 3.8 Technical Specification

Characteristics	Description					
Radio System Type	🛛 UMTS	🖾 LTE				
	Band		ТХ	RX		
	UMTS Band II		1850 to 1910 MH	z 1930 t	o 1990 MHz	
	UMTS Band IN	/	1710 to 1755 MH	z 2110 t	o 2155 MHz	
	UMTS Band V	,	824 to 849 MHz	869 to	894 MHz	
	LTE Band 2		1850 to 1910 MH	z 1930 t	o 1990 MHz	
	LTE Band 4		1710 to 1755 MH	z 2110 t	o 2155 MHz	
	LTE Band 5		824 to 849 MHz	869 to	894 MHz	
	LTE Band 7		2500 to 2570 MH	z 2620 t	o 2690 MHz	
	LTE Band 12		699 to 716 MHz	729 to	746 MHz	
	LTE Band 13		777 to 787 MHz	746 to	756 MHz	
	LTE Band 14		788 to 798 MHz	758 to	768 MHz	
	LTE Band 17		704 to 716 MHz	734 to	746 MHz	
	LTE Band 25		1850 to 1915MHz	z 1930 t	o 1995 MHz	
	LTE Band 26 (814 to 824 MHz )		814 to 824MHz 85		859 to 869 MHz	
Supported Frequency Range	LTE Band 26 (824 to 849 MHz )			960 to	869 to 894 MHz	
			824 to 849 MHz	869 10		
	LTE Band 30		2305 to 2315 MH	z 2350 t	o 2360 MHz	
	LTE Band 38		2570 to 2620 MHz 2570 to		o 2620 MHz	
	LTE Band 40		2305 to 2310 MH	z 2305 t	2305 to 2310 MHz	
	LTE Band 41		2496 to 2690MHz	z 2496 te	o 2690MHz	
	LTE Band 42		3450 to 3550 MH	z 3450 te	o 3550 MHz	
	LTE Band 43		3700 to 3800 MH	z 3700 t	o 3800 MHz	
	LTE Band 66		1710 to 1780 MH	z 2110 t	o 2180 MHz	
	LTE Band 71		663 to 698 MHz	617 to	652 MHz	
	LTE CA_2C		1850 to 1910 MH	z 1930 t	o 1990 MHz	
	LTE CA_5B		824 to 849 MHz	869 to	894 MHz	
	LTE CA_7C		2500 to 2570 MH	lz 2620 t	o 2690 MHz	
	LTE CA_38C		2570 to 2620 MH	z 2570 t	o 2620 MHz	
	LTE CA_41C		2496 to 2690MHz	z 2496 t	o 2690MHz	
	LTE CA_42C		3450 to 3550 MH	z 3450 t	o 3550 MHz	



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	LTE CA_43C	3700 to 380			800 MHz
	LTE CA_66B	1710 to 178	80 MHz	2110 to 2	180 MHz
	LTE CA_66C	1710 to 178	80 MHz	2110 to 2	180 MHz
	CA:				
	UL CA_2A-4A; UL CA_2A-	5A; UL CA_2	2A-7A; UL CA	A_2A-12A;	
	UL CA_2A-13A; UL CA_2A	-30A; UL CA	A_2A-66A;		
	UL CA_4A-5A; UL CA_4A-	7A; UL CA_4	1A-12A; UL C	A_4A-13A;	
	UL CA_4A-30A; UL CA_5A	-7A; UL CA_	_5A-30A; UL	CA_5A-66A;	
	UL CA_12A-30A; UL CA_1 ULCA intra-band Only test		—	-	A-30A;
	LTE Dond 2	⊠1.4 MHz	3 MHz	⊠5 MHz	⊠10 MHz
	LTE Band 2	🛛 15 MHz	20 MHz		
	LTE Band 4	⊠1.4 MHz	🖂 3 MHz	⊠5 MHz	⊠10 MHz
		🛛 15 MHz	⊠20 MHz		
	LTE Band 5	⊠1.4 MHz	🖂 3 MHz	⊠5 MHz	⊠10 MHz
	LTE Band 7	⊠5 MHz	⊠10 MHz	🖾 15 MHz	⊠20 MHz
	LTE Band 12	⊠1.4 MHz	🖂 3 MHz	⊠5 MHz	⊠10 MHz
	LTE Band 13	⊠5 MHz	⊠10 MHz		
	LTE Band 14	⊠5 MHz	⊠10 MHz		
	LTE Band 17	⊠5 MHz	⊠10 MHz		
	LTE Band 25	⊠1.4 MHz	⊠3 MHz	⊠5 MHz	⊠10 MHz
Supported Channel Bandwidth	LTE Banu 25	🛛 15 MHz	20 MHz		
	LTE Band 26(814-824)	⊠1.4 MHz	⊠3 MHz	⊠5 MHz	⊠10 MHz
	LTE Band 26(824-849)	⊠1.4 MHz	⊠3 MHz	⊠5 MHz	⊠10 MHz
	LTE Band 20(024-049)	🛛 15 MHz			
	LTE Band30	⊠5 MHz	⊠10 MHz		
	LTE Band38	⊠5 MHz	⊠10 MHz	🖾 15 MHz	⊠20 MHz
	LTE Band41	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz
	LTE Band42	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz
	LTE Band43	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz
	LTE Band66	⊠1.4 MHz	🖾 3 MHz	⊠5 MHz	⊠10 MHz
		⊠15MHz	20MHz		
	LTE Band71	⊠5MHz	⊠10MHz	⊠15MHz	20MHz



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		⊠10MHz+15MHz	⊠10MHz+20MHz
		⊠15MHz+10MHz	⊠15MHz+15MHz
	LTE CA_2C	⊠15MHz+20MHz	⊠20MHz+10MHz
		⊠20MHz+15MHz	⊠20MHz+20MHz
		⊠20MHz+5MHz	⊠5MHz+20MHz
		⊠10MHz+10MHz	⊠10MHz+5MHz
	LTE CA_5B	⊠3MHz+5MHz	⊠5MHz+10MHz
		⊠5MHz+3MHz	20MHz+10MHz
		⊠10MHz+20MHz	⊠15MHz+10MHz
		15MHz+15MHz	⊠15MHz+20MHz
	LTE CA_7C	20MHz+10MHz	20MHz+15MHz
		20MHz+20MHz	
	LTE Band CA_38C	15MHz+15MHz	20MHz+20MHz
		10MHz+15MHz	⊠10MHz+20MHz
	LTE Band CA_41C	15MHz+10MHz	⊠15MHz+15MHz
		15MHz+20MHz	20MHz+15MHz
		20MHz+20MHz	20MHz+5MHz
		⊠5MHz+20MHz	
		10MHz+20MHz	⊠15MHz+20MHz
		20MHz+10MHz	20MHz+15MHz
	LTE Band CA_42C	20MHz+20MHz	20MHz+5MHz
		SMHz+20MHz	
		10MHz+20MHz	⊠15MHz+20MHz
		20MHz+10MHz	20MHz+15MHz
	LTE Band CA_43C	20MHz+20MHz	20MHz+5MHz
		SMHz+20MHz	
		⊠10MHz+10MHz	⊠10MHz+5MHz
	LTE Band CA_66B	15MHz+5MHz	SMHz+15MHz
		SMHz+5MHz	5MHz+10MHz
		10MHz+15MHz	⊠10MHz+20MHz
		15MHz+10MHz	15MHz+15MHz
	LTE Band CA_66C	15MHz+20MHz	20MHz+10MHz
		20MHz+15MHz	20MHz+20MHz
		20MHz+5MHz	
		1	



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Characteristics	Description				
	UMTS:	QPSK			
	Band II	4M17F9W			
	Band IV	4M21F9W			
	Band V	4M15F9W			
	E-UTRA:	QPSK	16QAM	64QAM	256QAM
		1M11G7D	1M11W7D	1M11W7D	1M11W7D
		2M70G7D	2M70W7D	2M70W7D	2M70W7D
		4M48G7D	4M49W7D	4M48W7D	4M49W7D
	LTE Band 2	8M95G7D	8M95W7D	8M96W7D	8M96W7D
		13M5G7D	13M5W7D	13M5W7D	13M5W7D
		17M9G7D	18M0W7D	17M9W7D	17M9W7D
Decignation of Emissions	LTE Band 4	1M11G7D	1M11W7D	1M11W7D	1M11W7D
Designation of Emissions		2M70G7D	2M70W7D	2M70W7D	2M70W7D
(Remark: the necessary		4M48G7D	4M48W7D	4M48W7D	4M48W7D
bandwidth of which is the		8M97G7D	8M97W7D	8M96W7D	8M96W7D
worst value from the		13M5G7D	13M5W7D	13M5W7D	13M5W7D
measured occupied		17M9G7D	18M0W7D	18M0W7D	18M0W7D
bandwidths for each type of	LTE Band 5	1M11G7D	1M11W7D	1M11W7D	1M11W7D
channel bandwidth		2M70G7D	2M70W7D	2M70W7D	2M70W7D
configuration.)		4M48G7D	4M48W7D	4M48W7D	4M48W7D
		8M94G7D	8M94W7D	8M94W7D	8M94W7D
		4M48G7D	4M48W7D	4M48W7D	4M48W7D
	LTE Band 7	8M95G7D	8M95W7D	8M94W7D	8M95W7D
		13M5G7D	13M5W7D	13M5W7D	13M5W7D
		17M9G7D	17M9W7D	17M9W7D	17M9W7D
		1M11G7D	1M11W7D	1M11W7D	1M11W7D
	LTE Band 12	2M70G7D	2M70W7D	2M70W7D	2M70W7D
		4M48G7D	4M48W7D	4M49W7D	4M48W7D
		8M94G7D	8M96W7D	8M94W7D	8M96W7D
	LTE Band13	4M48G7D	4M49W7D	4M48W7D	4M49W7D
		8M92G7D	8M93W7D	8M92W7D	8M92W7D



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	LTE Band 14	4M48G7D	4M48W7D	4M48W7D	4M48W7D
	8	8M93G7D	8M94W7D	8M94W7D	8M94W7D
	LTE Band 17	4M48G7D	4M48W7D	4M48W7D	4M48W7D
		8M96G7D	8M96W7D	8M95W7D	8M96W7D
	LTE Band 25	1M11G7D	1M11W7D	1M11W7D	1M11W7D
		2M70G7D	2M70W7D	2M70W7D	2M70W7D
		4M48G7D	4M48W7D	4M48W7D	4M49W7D
		8M95G7D	8M95W7D	8M94W7D	8M95W7D
		13M5G7D	13M5W7D	13M5W7D	13M5W7D
		17M9G7D	17M9W7D	17M9W7D	17M9W7D
		1M11G7D	1M11W7D	1M11W7D	1M11W7D
	LTE Band 26	2M70G7D	2M71W7D	2M70W7D	2M70W7D
	(814-824)	4M48G7D	4M48W7D	4M48W7D	4M48W7D
		8M93G7D	8M93W7D	8M93W7D	8M94W7D
		1M11G7D	1M11W7D	1M10W7D	1M11W7D
	LTE Band 26 (824-849)	2M71G7D	2M70W7D	2M70W7D	2M71W7D
		4M48G7D	4M48W7D	4M49W7D	4M49W7D
		8M97G7D	8M95W7D	8M95W7D	8M95W7D
		13M5G7D	13M5W7D	13M5W7D	13M5W7D
	LTE Band 30	4M51G7D	4M52W7D	4M51W7D	4M51W7D
		9M01G7D	9M00W7D	8M99W7D	9M00W7D
		4M48G7D	4M45W7D	4M48W7D	4M48W7D
	LTE Band 38	8M96G7D	8M95W7D	8M94W7D	8M96W7D
		13M5G7D	13M5W7D	13M5W7D	13M5W7D
		17M9G7D	17M9W7D	17M9W7D	17M9W7D
		4M48G7D	4M48W7D	4M48W7D	4M48W7D
	LTE Band 41	8M97G7D	8M94W7D	8M95W7D	8M96W7D
		13M5G7D	13M5W7D	13M5W7D	13M5W7D
		17M9G7D	17M9W7D	17M9W7D	17M9W7D
		4M51G7D	4M52W7D	4M51W7D	4M52W7D
	LTE Band 42	9M00G7D	9M01W7D	9M02W7D	9M02W7D
		13M5G7D	13M5W7D	13M5W7D	13M5W7D
		18M0G7D	18M1W7D	18M1W7D	18M1W7D
	LTE Band 43	4M51G7D	4M52W7D	4M52W7D	4M52W7D



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		9M02G7D	9M02W7D	9M00W7D	9M02W7D	
		13M5G7D	13M5W7D	13M5W7D	13M5W7D	
		18M1G7D	18M1W7D	18M1W7D	18M1W7D	
ITE	Band 66	1M11G7D	1M11W7D	1M11W7D	1M11W7D	
	Sanu oo	2M70G7D	2M71W7D	2M71W7D	2M70W7D	
		4M48G7D	4M48W7D	4M48W7D	4M48W7D	
		8M96G7D	8M96W7D	8M94W7D	8M96W7D	
		13M5G7D	13M5W7D	13M5W7D	13M5W7D	
		18M0G7D	18M0W7D	17M9W7D	17M9W7D	
		4M49G7D	4M49W7D	4M49W7D	4M49W7D	
	Dand 71	8M95G7D	8M95W7D	8M95W7D	8M94W7D	
	Band 71	13M5G7D	13M5W7D	13M5W7D	13M5W7D	
		17M9G7D	17M9W7D	17M9W7D	17M8W7D	
		50RB+75RB	:			
		23M2G7D	23M1W7D	23M2W7D	23M1W7D	
		50RB+100RB:				
		27M7G7D	27M7W7D	27M8W7D	27M8W7D	
		75RB+50RB	:			
		23M2G7D	23M2W7D	23M2W7D	23M2W7D	
		75RB+75RB:				
		28M3G7D	28M3W7D	28M3W7D	28M3W7D	
		75RB+100R	B:			
	Band CA 2C	32M6G7D	32M6W7D	32M6W7D	32M6W7D	
		100RB+50R	B:			
		27M8G7D	27M8W7D	27M7W7D	27M8W7D	
		100RB+75R	B:			
		32M6G7D	32M6W7D	32M6W7D	32M6W7D	
		100RB+100F	RB:			
		37M8G7D	37M7W7D	37M7W7D	37M8W7D	
		100RB+25R	B:			
		23M0G7D	22M9W7D	22M9W7D	23M0W7D	
			D.			
		25RB+100R	D.			
		25RB+100R 22M9G7D	ь. 22M9W7D	22M9W7D	22M9W7D	



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			<u> </u>		4014014/75	
		18M8G7D	18M8W7D	18M8W7D	18M8W7D	
		50RB+25RE		1		
		13M9G7D	13M9W7D	13M9W7D	13M9W7D	
		15RB+25RE	3:			
		7M52G7D	7M49W7D	7M49W7D	7M49W7D	
		25RB+50RE	3:			
		13M9G7D	13M9W7D	13M9W7D	13M9W7D	
		25RB+15RE	3:			
		7M52G7D	7M51W7D	7M52W7D	7M49W7D	
		50RB+100R	B:			
		27M7G7D	27M7W7D	27M7W7D	27M7W7D	
		75RB+50RE	3:			
		23M2G7D	23M2W7D	23M1W7D	23M1W7D	
		75RB+75RE	B:	1		
		28M3G7D	28M3W7D	28M3W7D	28M3W7D	
		75RB+100RB:				
	LTE Band CA_7C	32M6G7D	32M6W7D	32M6W7D	32M6W7D	
		100RB+50R	RB:	1		
		27M8G7D	27M8W7D	27M7W7D	27M8W7D	
		100RB+75R	B:	1		
		32M6G7D	32M6W7D	32M6W7D	32M6W7D	
		100RB+100RB:				
		37M7G7D	37M7W7D	37M7W7D	37M7W7D	
		75RB+75RE	B:			
		28M2G7D	28M2W7D	28M2W7D	28M2W7D	
	LTE Band CA_38C	100RB+100	RB:			
		37M6G7D	37M6W7D	37M6W7D	37M6W7D	
		50RB+75RE			1	
		23M1G7D	23M1W7D	23M1W7D	23M0W7D	
		50RB+100R			<u> </u>	
	LTE Band CA_41C	27M7G7D	27M6W7D	27M7W7D	27M6W7D	
	· · · · · · · · · · · · · · · · · · ·	75RB+50RE				
		23M1G7D	23M1G7D	23M1G7D	23M1G7D	
		75RB+75RE				



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LTE Band CA_42C         28M3G7D         28M2W7D         28M3W7D         28M2W7D           100RB+100RB:         32M5W7D         32M5W7D         32M5W7D         32M5W7D           100RB+100RB:         32M5W7D         32M6W7D         32M6W7D         32M6W7D           100RB+100RB:         32M5W7D         32M6W7D         32M6W7D         32M6W7D           100RB+100RB:         37M7G7D         37M7W7D         37M7W7D         37M7W7D           100RB+25RB:         22M9G7D         22M9W7D         22M9W7D         22M9W7D           22M9G7D         22M8W7D         22M9W7D         22M9W7D         22M8W7D           250RB+100RB:         22M9G7D         22M807D         22M807D         22M87D           50RB+100RB:         27M8G7D         32M7G7D         32M7G7D         32M7G7D           100RB+50RB:         27M8G7D         32M7G7D         32M67D         32M67D           100RB+50RB:         27M8G7D         32M7G7D         32M67D         32M67D           100RB+50RB:         32M67D         32M7G7D         32M67D         32M67D           100RB+100RB:         32M67D         32M67D         32M67D         32M67D           24M67D         37M67D         32M67D         32M67D         32M67D <th></th> <th></th> <th>10</th> <th><u>ige. 00</u></th> <th>0100</th> <th></th>			10	<u>ige. 00</u>	0100	
32M5G7D         32M5W7D         32M5W7D         32M5W7D           100RB+75R         32M5W7D         32M6W7D         32M6W7D           32M5G7D         32M5W9D         32M6W7D         32M6W7D           100RB+100R         37M7W7D         37M7W7D         37M7W7D         37M7W7D           100RB+25R8:         22M9W7D         22M9W7D         22M9W7D         22M9W7D         22M9W7D           25RB+100R8:         22M9G7D         22M8W7D         22M9W7D         22M8W7D         22M8W7D           26RB+100R8:         22M6W7D         22M8W7D         22M8W7D         22M8W7D         22M8W7D           27M8G7D         27M9G7D         27M9G7D         27M9G7D         27M9G7D         27M9G7D           32M6G7D         32M7G7D         32M7G7D         32M7G7D         32M7G7D         32M7G7D           32M6G7D         32M6G7D         32M6G7D         32M6G7D         32M6G7D         32M6G7D           32M6G7D         32M6G7D         32M6G7D         32M6G7D         32M6G7D         32M6G7D           34M67D         32M6G7D         32M6G7D         32M6G7D         32M6G7D         32M6G7D           100R8+100R8:         2         32M6G7D         32M6G7D         32M6G7D         32M6G7D <tr< td=""><th></th><td></td><td>28M3G7D</td><td>28M2W7D</td><td>28M3W7D</td><td>28M2W7D</td></tr<>			28M3G7D	28M2W7D	28M3W7D	28M2W7D
IOURB+75RB:           32M5G7D         32M6W7D         32M6W7D           32M5G7D         37M7W7D         37M7W7D         37M7W7D           IOURB+100RB:         37M7W7D         37M7W7D         37M7W7D           100RB+25RB:         22M9W7D         22M9W7D         22M9W7D         22M9W7D           25RB+100RB:         22M9G7D         22M7W7D         22M9W7D         22M9W7D           25RB+100RB:         22M9G7D         22M7W7D         22M9W7D         22M9W7D           26RB+100RB:         27M9G7D         27M9G7D         27M9G7D         27M9G7D         27M9G7D           75RB+100RB:         27M9G7D         32M7G7D         32M7G7D         32M7G7D         32M7G7D           100RB+50RB:         27M9G7D         28M0G7D         32M7G7D         32M8G7D           100RB+50RB:         27M9G7D         28M0G7D         32M8G7D         32M7G7D           100RB+70RB:         37M4G7D         37M4G7D         37M4G7D         37M4G7D           100RB+100RB:         22M9G7D         22M9G7D         22M9G7D         22M9G7D           22M9G7D         22M7G7D         32M6G7D         37M6G7D         37M6G7D           200G7D         22M7G7D         22M9G7D         22M9G7D         22M9G7D			75RB+100R	RB:		
32M5G7D         32M5W9D         32M6W7D         32M6W7D           100RB+100R         37M7W7D         37M7W7D         37M7W7D           37M7G7D         37M7W7D         37M7W7D         37M7W7D           100RB+25R         22M9W7D         22M9W7D         22M9W7D           25RB+100R         22M9W7D         22M9W7D         22M9W7D           25RB+100R         22M9W7D         22M9W7D         22M9W7D           27M8G7D         27M9G7D         27M9G7D         27M9G7D           50RB+100R         32M7G7D         32M7G7D         32M7G7D           32M6G7D         32M7G7D         32M7G7D         32M7G7D           32M6G7D         32M7G7D         32M7G7D         32M7G7D           32M6G7D         32M6G7D         32M7G7D         32M7G7D           32M6G7D         32M6G7D         32M7G7D         32M6G7D           100R8+50R         2         32M8G7D         32M7G7D         32M8G7D           32M8G7D         32M8G7D         32M7G7D         32M8G7D         32M8G7D           100R8+100R         2         37M4G7D         37M4G7D         37M6G7D         32M8G7D           22M9G7D         22M9G7D         22M7G7D         32M7G7D         32M7G7D         32M7G7D<			32M5G7D	32M5W7D	32M5W7D	32M5W7D
100RB+100RB:         37M7G7D         37M7W7D         37M7W7D         37M7W7D           100RB+25RB:         22M9W7D         22M9G7D         27M9G7D         32M7G7D         32M7G7D         32M7G7D         32M67D         32M67D         32M8G7D			100RB+75R	RB:		
37M7G7D         37M7W7D         37M7W7D         37M7W7D           100RB+25R:         22M9W7D         22M9W7D         22M9W7D           25RB+100R:         22M9W7D         22M9W7D         22M9W7D           25RB+100R:         22M9G7D         22M8W7D         22M8W7D           27M9G7D         27M9G7D         27M9G7D         27M9G7D           75RB+100R:         27M9G7D         32M7G7D         32M7G7D           75RB+100R:         32M7G7D         32M7G7D         32M7G7D           100RB+50R:         27M8G7D         28M0G7D         28M0G7D         32M7G7D           100RB+50R:         27M8G7D         32M7G7D         32M7G7D         32M7G7D           100RB+50R:         2         32M6G7D         32M6G7D         32M8G7D           32M8G7D         32M8G7D         32M7G7D         32M8G7D         32M8G7D           100RB+100R:         2         37M4G7D         37M6G7D         37M6G7D           22M9G7D         22M9G7D         22M9G7D         22M9G7D         22M9G7D           25RB+100R:         2         22M9G7D         22M9G7D         22M9G7D           26RB+100R:         2         22M9G7D         22M9G7D         22M9G7D           27M9G7D         22M			32M5G7D	32M5W9D	32M6W7D	32M6W7D
100RB+25RB:         22M9W7D         22M9W7D         22M9W7D         22M9W7D           25RB+100RB:         22M8W7D         22M8W7D         22M8W7D         22M8W7D           22M9G7D         22M8W7D         22M8W7D         22M8W7D         22M8W7D           22M9G7D         22M8W7D         22M8W7D         22M8W7D         22M8W7D           22M9G7D         22M8W7D         22M8W7D         22M8W7D         22M8W7D           2007         22M8G7D         27M9G7D         27M9G7D         27M9G7D           75RB+100RB:         32M7G7D         32M7G7D         32M7G7D         32M6G7D           100RB+50RB:         27M8G7D         28M0G7D         28M0G7D         32M8G7D           100RB+50RB:         27M8G7D         32M8G7D         32M7G7D         32M8G7D           100RB+100RB:         37M4G7D         37M4G7D         37M4G7D         37M4G7D         37M4G7D           100RB+25RB:         22M9G7D         22M9G7D         22M9G7D         22M9G7D         22M9G7D           25RB+100RB:         22M7G7D         22M7G7D         22M7G7D         22M7G7D         22M7G7D           27M9G7D         22M7G7D         22M7G7D         22M7G7D         22M7G7D         22M7G7D           27M9G7D			100RB+100	RB:		
22M9G7D         22M9W7D         22M9W7D         22M9W7D         22M9W7D           25RB+100RB:         22M9W7D         22M8W7D         22M8W7D         22M8W7D           22M9G7D         22M9W7D         22M8W7D         22M8W7D         22M8W7D           22M9G7D         22M9G7D         22M9G7D         22M9W7D         22M8W7D           50RB+100RB:         27M9G7D         27M9G7D         27M9G7D         27M9G7D           75RB+100RB:         32M6G7D         32M7G7D         32M7G7D         32M7G7D           100RB+50RB:         27M8G7D         28M0G7D         28M0G7D         28M0G7D         28M0G7D           (3450-3550)         27M8G7D         32M8G7D         32M7G7D         32M8G7D         32M7G7D         32M8G7D           100RB+50RB:         37M4G7D         37M4G7D         37M6G7D         37M6G7D         37M6G7D           100RB+100RB:         22M9G7D         22M9G7D         22M9G7D         22M9G7D         22M9G7D           22M7G7D         22M7G7D         22M7G7D         22M7G7D         22M7G7D         22M7G7D           22M9G7D         22M9G7D         22M7G7D         22M7G7D         22M7G7D         22M7G7D           25R8+100RB:         27M9G7D         27M9W7D         28M0W7D			37M7G7D	37M7W7D	37M7W7D	37M7W7D
25RB+100RB:         22M9G7D         22M8W7D         22M7W7D         22M8W7D           50RB+100RB:         50RB+100RB:         50RB+100RB:         50RB+100RB:         50RB+100RB:           27M8G7D         27M9G7D         27M9G7D         27M9G7D         32M7G7D         32M7G7D           32M6G7D         32M7G7D         32M7G7D         32M7G7D         32M7G7D         32M7G7D           100RB+50RB:         27M8G7D         28M0G7D         28M0G7D         28M0G7D         28M0G7D           100RB+75RB:         32M8G7D         32M7G7D         32M8G7D         32M7G7D         32M8G7D           100RB+100RB:         32M8G7D         32M7G7D         32M8G7D         32M8G7D         32M8G7D           100RB+100RB:         37M4G7D         37M4G7D         37M6G7D         37M6G7D         32M8G7D           100RB+25RB:         22M9G7D         22M9G7D         22M9G7D         22M9G7D         22M9G7D           22M9G7D         22M7G7D         22M9G7D         22M9G7D         22M9G7D         22M9G7D           22M9G7D         22M9G7D         22M9G7D         22M9G7D         22M9G7D         22M9G7D           22M9G7D         22M7G7D         22M7G7D         22M7G7D         22M7G7D         22M7G7D <td< td=""><th></th><td></td><td>100RB+25R</td><td>B:</td><td></td><td></td></td<>			100RB+25R	B:		
22M9G7D22M8W7D22M7W7D22M8W7D50RB+100RU50RB+100RU27M9G7D27M9G7D27M9G7D75RB+100RU32M7G7D32M7G7D32M7G7D32M7G7D32M6G7D32M6G7D28M0G7D28M0G7D28M0G7D100RB+50RU27M8G7D28M0G7D28M0G7D28M0G7D200RB7028M0G7D28M0G7D28M0G7D28M0G7D32M8G7D32M8G7D32M8G7D32M8G7D32M8G7D32M8G7D32M8G7D32M8G7D32M8G7D32M8G7D37M4G7D37M4G7D37M4G7D37M6G7D37M6G7D100RB+25RU22M9G7D22M9G7D22M9G7D22M9G7D22M7G7D22M7G7D22M7G7D22M7G7D22M7G7D22M7G7D22M7G7D22M7G7D22M7G7D22M7G7D22M7G7D22M7G7D22M7G7D22M7G7D22M7G7D32M7G7D32M707D32M6W7D27M9W7D27M9W7D75RB+100RU27M9G7D22M7G7D32M6W7D32M7W7D32M7G7D32M7G7D32M6W7D32M7W7D32M6W7D100RB+50RU27M9G7D28M0W7D28M0W7D28M0W7D100RB+50RU27M9G7D28M0W7D28M0W7D28M0W7D27M9G7D32M8W7D32M8W7D32M8W7D32M8W7D			22M9G7D	22M9W7D	22M9W7D	22M9W7D
50RB+100RB:           27M8G7D         27M9G7D         27M9G7D         27M9G7D           75RB+100RB:         32M7G7D         32M7G7D         32M7G7D           32M6G7D         32M7G7D         32M7G7D         32M7G7D           100RB+50RB:         27M8G7D         28M0G7D         28M0G7D         28M0G7D           100RB+50RB:         27M8G7D         28M0G7D         28M0G7D         28M0G7D           100RB+50RB:         27M8G7D         32M7G7D         28M0G7D         28M0G7D           100RB+50RB:         27M8G7D         32M7G7D         32M8G7D         32M7G7D         32M8G7D           100RB+100RB:         37M4G7D         37M4G7D         37M6G7D         37M6G7D         37M6G7D           100RB+25RB:         22M9G7D         22M9G7D         22M9G7D         22M9G7D         22M9G7D           25RB+100RB:         22M7G7D         22M7G7D         22M7G7D         22M7G7D         22M7G7D           207M9G7D         22M7G7D         22M7G7D         22M7G7D         22M7G7D         22M7G7D           27M9G7D         22M7G7D         22M7G7D         22M7G7D         22M7G7D         22M7G7D           27M9G7D         32M707D         32M6W7D         32M7W7D         32M6W7D         32M7W7D			25RB+100R	RB:	1	1
27M8G7D         27M9G7D         27M9G7D         27M9G7D           75RB+100RB:         32M7G7D         32M7G7D         32M7G7D           32M6G7D         28M0G7D         32M7G7D         32M7G7D           100RB+50RB:         27M8G7D         28M0G7D         28M0G7D         28M0G7D           100RB+50RB:         27M8G7D         32M7G7D         28M0G7D         28M0G7D         28M0G7D           100RB+75RB:         27M8G7D         32M8G7D         32M7G7D         32M8G7D         100RB+75RB:           22M8G7D         32M8G7D         32M8G7D         32M8G7D         32M8G7D         100RB+75RB:           37M4G7D         37M4G7D         37M4G7D         37M6G7D         37M6G7D         100RB+25RB:           22M9G7D         22M9G7D         22M9G7D         22M9G7D         22M9G7D         22M9G7D           25RB+100RB:         22M7G7D         22M7G7D         22M7G7D         22M7G7D         22M7G7D           27M9G7D         27M9G7D         27M9W7D         28M0W7D         27M9W7D           32M7G7D         32M7W7D         32M6W7D         32M7W7D           32M7G7D         32M7W7D         32M6W7D         32M7W7D           32M7G7D         32M7W7D         32M6W7D         32M7W7D </td <th></th> <td></td> <td>22M9G7D</td> <td>22M8W7D</td> <td>22M7W7D</td> <td>22M8W7D</td>			22M9G7D	22M8W7D	22M7W7D	22M8W7D
1         75RB+100RB:           32M6G7D         32M7G7D         32M7G7D           32M6G7D         32M7G7D         32M7G7D           100RB+50RB:         27M8G7D         28M0G7D         28M0G7D           100RB+50RB:         27M8G7D         32M8G7D         32M8G7D           100RB+75RB:         32M8G7D         32M8G7D         32M8G7D           100RB+100RB:         37M4G7D         37M6G7D         37M6G7D           100RB+25RB:         37M4G7D         37M6G7D         37M6G7D           100RB+25RB:         22M9G7D         22M9G7D         22M9G7D           22M9G7D         22M9G7D         22M9G7D         22M9G7D           25RB+100RB:         22M7G7D         22M7G7D         22M7G7D           22M7G7D         22M7G7D         22M7G7D         22M7G7D           27M9G7D         27M9G7D         28M0W7D         27M9W7D           75RB+100RB:         32M7W7D         32M7W7D         32M7W7D           100RB+50RB:         32M7W7D         32M0W7D         32M7W7D           100RB+50RB:         32M7W7D         32M0W7D         32M0W7D           100RB+50RB:         32M0W7D         32M0W7D         32M0W7D           100RB+75RB:         32M907D         32M			50RB+100R	B:	1	I
32M6G7D         32M7G7D         32M7G7D         32M7G7D           100RB+50RB:         27M8G7D         28M0G7D         28M0G7D         28M0G7D           27M8G7D         28M0G7D         28M0G7D         28M0G7D         28M0G7D           100RB+50RB:         32M8G7D         32M8G7D         32M8G7D         32M8G7D           100RB+100RB:         37M4G7D         37M6G7D         37M6G7D         37M6G7D           100RB+25RB:         37M4G7D         37M6G7D         37M6G7D         37M6G7D           100RB+25RB:         22M9G7D         32M9G7D         22M9G7D         22M9G7D         22M9G7D           25RB+100RB:         22M7G7D         22M7G7D         22M7G7D         22M7G7D         22M7G7D           27M9G7D         22M7G7D         22M7G7D         28M0W7D         27M9W7D           75RB+100RB:         32M7W7D         32M7W7D         32M7W7D           32M7G7D         32M7W7D         32M7W7D         32M7W7D           3700-3800)         32M7G7D         32M0W7D         32M0W7D           100RB+50RB:         32M0W7D         28M0W7D         32M8W7D           32M9G7D         32M8W7D         32M8W7D         32M8W7D			27M8G7D	27M9G7D	27M9G7D	27M9G7D
Init in the initial initinitinitial initial initial initial initial initial ini			75RB+100R	RB:		1
Image: LTE Band CA_42C (3450-3550)         27M8G7D         28M0G7D         28M0G7D         28M0G7D         28M0G7D           100RB+75RB:         32M8G7D         32M7G7D         32M8G7D         32M8G7D         32M8G7D           100RB+100RB:         37M4G7D         37M6G7D         37M6G7D         37M6G7D           100RB+25RB:         22M9G7D         22M9G7D         22M9G7D         22M9G7D           25RB+100RB:         22M7G7D         22M7G7D         22M7G7D         22M7G7D           22M7G7D         22M7G7D         22M7G7D         22M9W7D         22M9W7D           50RB+100RB:         22M7G7D         22M7G7D         22M9W7D         27M9W7D           100RB+50RB:         32M7G7D         32M6W7D         27M9W7D         32M6W7D           100RB+50RB:         32M7G7D         32M6W7D         32M7W7D           100RB+50RB:         32M9G7D         32M8W7D         32M8W7D			32M6G7D	32M7G7D	32M7G7D	32M7G7D
LTE Band CA_42C (3450-3550)         100RB+75RB:           32M8G7D         32M8G7D         32M7G7D         32M8G7D           32M8G7D         37M4G7D         37M6G7D         37M6G7D           100RB+100RB:         37M4G7D         37M6G7D         37M6G7D           100RB+25RB:         22M9G7D         22M9G7D         22M9G7D         22M9G7D           22M9G7D         22M9G7D         22M9G7D         22M9G7D         22M9G7D           25RB+100RB:         22M7G7D         22M7G7D         22M7G7D         22M7G7D           27M9G7D         27M9W7D         28M0W7D         27M9W7D           75RB+100RB:         32M7W7D         32M6W7D         32M7W7D           32M7G7D         32M7G7D         32M6W7D         32M7W7D           75RB+100RB:         32M7G7D         32M6W7D         32M7W7D           32M7G7D         32M7W7D         32M6W7D         32M7W7D           100RB+50RB:         32M7W7D         32M6W7D         32M0W7D           100RB+75RB:         32M9G7D         32M8W7D         32M8W7D			100RB+50RB:			
(3450-3550)       32M8G7D       32M8G7D       32M8G7D       32M8G7D         100RB+100RB:       37M4G7D       37M6G7D       37M6G7D       37M6G7D         100RB+25RB:       22M9G7D       22M9G7D       22M9G7D       22M9G7D         25RB+100RB:       22M7G7D       22M7G7D       22M7G7D       22M7G7D         22M7G7D       22M7G7D       22M7G7D       22M7G7D       22M7G7D         50RB+100RB:       22M7G7D       22M7G7D       22M7G7D       22M7G7D         75RB+100RB:       27M9W7D       28M0W7D       27M9W7D         75RB+100RB:       32M7W7D       32M6W7D       32M7W7D         100RB+50RB:       27M9G7D       27M9W7D       28M0W7D       32M7W7D         100RB+50RB:       32M7G7D       32M6W7D       32M7W7D       32M7W7D         32M7G7D       32M7W7D       32M6W7D       32M7W7D       32M6W7D         100RB+50RB:       32M9G7D       28M0W7D       28M0W7D       32M8W7D			27M8G7D	28M0G7D	28M0G7D	28M0G7D
(3450-3550)       32M8G7D       32M8G7D       32M7G7D       32M8G7D         100RB+100RB:       37M4G7D       37M6G7D       37M6G7D       37M6G7D         100RB+25RB:       22M9G7D       22M9G7D       22M9G7D       22M9G7D         25RB+100RB:       22M7G7D       22M7G7D       22M7G7D       22M7G7D         22M7G7D       22M7G7D       22M7G7D       22M7G7D       22M7G7D         50RB+100RB:       27M9W7D       28M0W7D       27M9W7D         75RB+100RB:       32M7G7D       32M6W7D       32M7W7D         100RB+50RB:       32M7G7D       32M6W7D       32M7W7D         100RB+50RB:       27M9G7D       28M0W7D       28M0W7D         27M9G7D       28M0W7D       28M0W7D       32M7W7D         100RB+50RB:       32M9G7D       32M8W7D       32M8W7D		LTE Band CA 42C	100RB+75R	RB:	1	1
37M4G7D         37M4G7D         37M6G7D         37M6G7D           100RB+25RB:         22M9G7D         22M9G7D         22M9G7D         22M9G7D           25RB+100RB:         22M7G7D         22M7G7D         22M7G7D         22M7G7D         22M7G7D           2077G7D         22M7G7D         22M7G7D         22M7G7D         22M7G7D         22M7G7D           50RB+100RB:         27M9G7D         27M9W7D         28M0W7D         27M9W7D           75RB+100RB:         32M7G7D         32M6W7D         32M7W7D           100RB+50RB:         32M7W7D         32M6W7D         32M7W7D           100RB+50RB:         27M9G7D         28M0W7D         28M0W7D           32M9G7D         32M8W7D         32M8W7D         32M8W7D			32M8G7D	32M8G7D	32M7G7D	32M8G7D
100RB+25RB:         22M9G7D         22M9G7D         22M9G7D         22M9G7D           25RB+100RB:         22M7G7D         22M7G7D         22M7G7D         22M7G7D           22M7G7D         22M7G7D         22M7G7D         22M7G7D         22M7G7D           50RB+100RB:         27M9G7D         28M0W7D         27M9W7D           75RB+100RB:         27M9G7D         28M0W7D         27M9W7D           75RB+100RB:         32M7G7D         32M6W7D         32M7W7D           100RB+50RB:         27M9G7D         28M0W7D         32M6W7D           100RB+50RB:         27M9G7D         28M0W7D         28M0W7D           100RB+75RB:         32M9G7D         32M8W7D         32M8W7D			100RB+100	RB:	1	
22M9G7D         22M9G7D         22M9G7D         22M9G7D         22M9G7D           25RB+100RB:         22M7G7D         22M7G7D         22M7G7D         22M7G7D         22M7G7D           20M7G7D         22M7G7D         22M7G7D         22M7G7D         22M7G7D         22M7G7D           50RB+100RB:         27M9G7D         27M9W7D         28M0W7D         27M9W7D           75RB+100RB:         32M7G7D         32M6W7D         32M7W7D           32M7G7D         32M7W7D         32M6W7D         32M7W7D           100RB+50RB:         27M9G7D         28M0W7D         28M0W7D           27M9G7D         28M0W7D         28M0W7D         28M0W7D           100RB+75RB:         32M9G7D         32M8W7D         32M8W7D			37M4G7D	37M4G7D	37M6G7D	37M6G7D
25RB+100RB:       22M7G7D       22M7G7D       22M7G7D       22M7G7D         22M7G7D       22M7G7D       22M7G7D       22M7G7D       22M7G7D         50RB+100RB:       27M9G7D       27M9W7D       28M0W7D       27M9W7D         27M9G7D       27M9G7D       27M9W7D       28M0W7D       27M9W7D         75RB+100RB:       32M7G7D       32M6W7D       32M7W7D         100RB+50RB:       27M9G7D       28M0W7D       28M0W7D         27M9G7D       28M0W7D       28M0W7D       28M0W7D         100RB+50RB:       27M9G7D       28M0W7D       28M0W7D         32M9G7D       32M8W7D       32M8W7D       32M8W7D			100RB+25RB:			
22M7G7D         22M7G7D         22M7G7D         22M7G7D         22M7G7D           50RB+100RB:         50RB+100RB:         27M9W7D         28M0W7D         27M9W7D           75RB+100RB:         32M7G7D         32M6W7D         32M7W7D           32M7G7D         32M7W7D         32M6W7D         32M7W7D           100RB+50RB:         27M9G7D         28M0W7D         28M0W7D           27M9G7D         28M0W7D         28M0W7D         32M7W7D           100RB+50RB:         27M9G7D         28M0W7D         28M0W7D           100RB+75RB:         32M9G7D         32M8W7D         32M8W7D			22M9G7D	22M9G7D	22M9G7D	22M9G7D
50RB+100RB:       27M9W7D       28M0W7D       27M9W7D         27M9G7D       27M9W7D       28M0W7D       27M9W7D         75RB+100RB:       32M7W7D       32M6W7D       32M7W7D         32M7G7D       32M7W7D       32M6W7D       32M7W7D         100RB+50RB:       27M9G7D       28M0W7D       28M0W7D         100RB+75RB:       32M9G7D       32M8W7D       32M8W7D			25RB+100R	RB:		
27M9G7D         27M9W7D         28M0W7D         27M9W7D           75RB+100RB:         32M7G7D         32M6W7D         32M7W7D           32M7G7D         32M7W7D         32M6W7D         32M7W7D           100RB+50RB:         27M9G7D         28M0W7D         28M0W7D         28M0W7D           100RB+50RB:         27M9G7D         28M0W7D         28M0W7D         28M0W7D           100RB+75RB:         32M9G7D         32M8W7D         32M8W7D         32M8W7D			22M7G7D	22M7G7D	22M7G7D	22M7G7D
Image: LTE Band CA_43C (3700-3800)       75RB+100RB:         32M7G7D       32M7W7D       32M6W7D       32M7W7D         100RB+50RB:       27M9G7D       28M0W7D       28M0W7D       28M0W7D         100RB+75RB:       32M9G7D       32M8W7D       32M8W7D       32M8W7D			50RB+100R	B:		
32M7G7D         32M7W7D         32M6W7D         32M7W7D           (3700-3800)         100RB+50RB:         27M9G7D         28M0W7D         28M0W7D         28M0W7D           100RB+75RB:         32M9G7D         32M8W7D         32M8W7D         32M8W7D         32M8W7D			27M9G7D	27M9W7D	28M0W7D	27M9W7D
LTE Band CA_43C (3700-3800) 100RB+50RB: 27M9G7D 28M0W7D 28M0W7D 28M0W7D 100RB+75RB: 32M9G7D 32M8W7D 32M8W7D 32M8W7D			75RB+100R	RB:	1	1
(3700-3800)       100KB+30KB.         27M9G7D       28M0W7D       28M0W7D         100RB+75RB:       32M9G7D       32M8W7D       32M8W7D			32M7G7D	32M7W7D	32M6W7D	32M7W7D
27M9G7D         28M0W7D         28M0W7D         28M0W7D           100RB+75RB:         32M9G7D         32M8W7D         32M8W7D         32M8W7D			100RB+50R	B:	1	1
32M9G7D 32M8W7D 32M8W7D 32M8W7D			27M9G7D	28M0W7D	28M0W7D	28M0W7D
			100RB+75R	B:	1	1
100RB+100RB:			32M9G7D	32M8W7D	32M8W7D	32M8W7D
			100RB+100	RB:	1	



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	37M6G7D	37M5W7D	37M5W7D	37M6W7D	
	100RB+25R	B:	1	1	
	22M9G7D	22M9W7D	22M9W7D	22M9W7D	
	25RB+100R	B:			
	22M9G7D	22M9W7D	22M9W7D	22M9W7D	
	50RB+50RB	:	·		
	18M9G7D	18M9W7D	18M9W7D	18M9W7D	
	50RB+25RB	5			
	13M9G7D	13M9W7D	13M9W7D	13M9W7D	
	75RB+25RB	:			
LTE Bond CA 66B	18M4G7D	18M4W7D	18M4W7D	18M4W7D	
LTE Band CA_66B	25RB+75RB	:			
	18M4G7D	18M3W7D	18M3W7D	18M3W7D	
	25RB+25RB	:			
	9M27G7D	9M29W7D	9M29W7D	9M29W7D	
	25RB+50RB:				
	13M9G7D	13M9W7D	13M9W7D	13M9W7D	
	50RB+75RB	:			
	23M2G7D	23M1W7D	23M1W7D	23M2W7D	
	50RB+100R	B:			
	27M8G7D	27M8G7D	27M7G7D	27M7G7D	
	75RB+50RB:				
	23M2G7D	23M2G7D	23M2G7D	23M2G7D	
	75RB+75RB	:			
	28M4G7D	28M3G7D	28M4G7D	28M3G7D	
LTE Band CA_66C	75RB+100R	B:			
	32M6G7D	32M6G7D	32M6G7D	32M5G7D	
	100RB+50R	B:			
	27M8G7D	27M8G7D	27M8G7D	27M8G7D	
	100RB+75R	B:	1		
	32M7G7D	32M6G7D	32M6G7D	32M6G7D	
	100RB+100I	RB:			
	37M7G7D	37M7G7D	37M7G7D	37M7G7D	
	100RB+25R	B:			



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#### 3.9 Test Frequencies

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

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

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



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				RF Channel		
Test Mode	Bandwidth	TX / RX	Low (L)	Middle (M)	High (H)	
			Channel 18607	Channel 18900	Channel 19193	
		TX	1850.7 MHz	1880 MHz	1909.3 MHz	
	1.4MHz	RX	Channel 607	Channel 900	Channel 1193	
		RX RX	1930.7 MHz	1960 MHz	1989.3 MHz	
			Channel 18615	Channel 18900	Channel 19185	
		ТХ	1851.5 MHz	1880 MHz	1908.5 MHz	
	3MHz	RX	Channel 615	Channel 900	Channel 1185	
			1931.5 MHz	1960 MHz	1988.5 MHz	
	5MHz	TX RX	Channel 18625	Channel 18900	Channel 19175	
			1852.5 MHz	1880 MHz	1907.5 MHz	
			Channel 625	Channel 900	Channel1175	
LTE Band 2			1932.5 MHz	1960 MHz	1987.5 MHz	
		ТΧ	Channel 18650	Channel 18900	Channel 19150	
			1855 MHz	1880 MHz	1905 MHz	
	10MHz	RX	Channel 650	Channel 900	Channel 1150	
			1935 MHz	1960 MHz	1985 MHz	
			Channel 18675	Channel 18900	Channel 19125	
		ТХ	1857.5 MHz	1880 MHz	1902.5 MHz	
	15MHz	RX	Channel 675	Channel 900	Channel 1125	
			1937.5 MHz	1960 MHz	1982.5 MHz	
			Channel 18700	Channel 18900	Channel 19100	
	001411	ТХ	1860 MHz	1880 MHz	1900 MHz	
	20MHz	RX	Channel 700	Channel 900	Channel 1100	
			1940 MHz	1960 MHz	1980 MHz	



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			<u> </u>	RF Channel	
Test Mode	Bandwidth	TX / RX	Low (L)	Middle (M)	High (H)
			Channel 19957	Channel 20175	Channel 20393
		TX	1710.7 MHz	1732.5 MHz	1754.3 MHz
	1.4MHz	DV	Channel 1975	Channel 2175	Channel 2375
		RX	2112.5 MHz	2132.5MHz	2152.5 MHz
			Channel 19965	Channel 20175	Channel 20385
		TX	1711.5 MHz	1732.5 MHz	1753.5 MHz
	3MHz	RX	Channel 2000	Channel 2175	Channel 2350
-		КЛ	2115 MHz	2132.5MHz	2150 MHz
	5MHz	TX RX	Channel 19975	Channel 20175	Channel 20375
			1712.5 MHz	1732.5 MHz	1752.5 MHz
			Channel 1975	Channel 2175	Channel 2375
		КЛ	2112.5 MHz	2132.5MHz	2152.5 MHz
LTE Band 4		ТХ	Channel 20000	Channel 20175	Channel 20350
			1715 MHz	1732.5 MHz	1750 MHz
	10MHz	RX	Channel 2000	Channel 2175	Channel 2350
			2115 MHz	2132.5MHz	2150 MHz
			Channel 20025	Channel 20175	Channel 20325
		ТХ	1717.5 MHz	1732.5 MHz	1747.5 MHz
	15MHz	RX	Channel 2025	Channel 2175	Channel 2325
			2117.5 MHz	2132.5MHz	2147.5 MHz
			Channel 20050	Channel 20175	Channel 20300
		ТХ	1720 MHz	1732.5 MHz	1745 MHz
	20MHz	RX	Channel 2050	Channel 2175	Channel 2300
			2120 MHz	2132.5MHz	2145 MHz

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



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

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



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TestMede	Denduridth			RF Channel	
Test Mode	Bandwidth	TX / RX	Low (L)	Middle (M)	High (H)
			Channel 23025	Channel 23230	Channel 23255
		ТХ	779.5 MHz	782 MHz	784.5 MHz
	5MHz	RX	Channel 5205	Channel 5230	Channel 5255
LTE Band 13			748.5 MHz	751 MHz	753.5 MHz
	10MHz	ТХ	Channel 23230	Channel 23230	Channel 23230
			782 MHz	782 MHz	782 MHz
		RX	Channel 5230	Channel 5230	Channel 5230
			751 MHz	751 MHz	751 MHz
Test Mode	Bandwidth	TX / RX		RF Channel	
Test Mode	Danuwiutii		Low (L)	Middle (M)	High (H)
			Channel 23305	Channel 23330	Channel 23355
		ТХ	790.5 MHz	793 MHz	795.5 MHz
	5MHz	RX	Channel 5305	Channel 5330	Channel 5355
LTE Band 14			760.5 MHz	763 MHz	765.5 MHz
			Channel 23330	Channel 23330	Channel 23330
		ТХ	793MHz	793 MHz	793 MHz
	10MHz	RX	Channel 5330	Channel 5330	Channel 5330
1			763MHz	763 MH7	763 MH7

Test Mode	Bandwidth			RF Channel	
Test Mode	Danuwiuun	TX / RX TX RX TX RX	Low (L)	Middle (M)	High (H)
			Channel 23755	Channel 23790	Channel 23825
		TX TX	706.5 MHz	710 MHz	713.5 MHz
	5MHz	עס	Channel 5755	Channel 5790	Channel 5825
LTE Band 17		КЛ	736.5 MHz	740 MHz	743.5 MHz
LIE Dallu I/			Channel 23780	Channel 23790	Channel 23800
		TX	709 MHz	710 MHz	711 MHz
	10MHz		Channel 5780	Channel 5790	Channel 5800
		۳۸	739 MHz	740 MHz	741 MHz

763MHz

763 MHz

763 MHz



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



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Test Mode	Bandwidth	TX / RX		RF Channel	
Test Wode	Danuwiutn		Low (L)	Middle (M)	High (H)
			Channel 26697	Channel 26740	Channel 26783
		TX	814.7 MHz	819 MHz	823.3 MHz
	1.4MHz	RX	Channel 8697	Channel 8740	Channel 8783
		ГЛ	859.7 MHz	864MHz	868.3 MHz
	3MHz	тх	Channel 26705	Channel 26740	Channel 26775
			815.5 MHz	819 MHz	822.5 MHz
		RX	Channel 8705	Channel 8740	Channel 8775
LTE Band 26			860.5 MHz	864MHz	867.5 MHz
(814-824)			Channel 26715	Channel 26740	Channel 26765
(0.1.0=1)		TX	816.5 MHz	819 MHz	821.5 MHz
	5MHz	RX	Channel 8715	Channel 8740	Channel 8755
		КЛ	861.5 MHz	864MHz	866.5 MHz
			Channel 26740	Channel 26740	Channel 26740
		TX	819 MHz	819 MHz	819 MHz
	10MHz	DV	Channel 8740	Channel 8740	Channel 8740
		RX	864MHz	864MHz	864MHz

Test Mede	Dondwidth			RF Channel	
Test Mode	Bandwidth		Low (L)	Middle (M)	High (H)
			Channel 26797	Channel 26915	Channel 27033
		ТХ	824.7 MHz	836.5 MHz	848.3 MHz
	1.4MHz	DV	Channel 8697	Channel 8915	Channel 9033
		КЛ	859.7 MHz	881.5 MHz	893.3 MHz
			Channel 26805	Channel 26915	Channel 27025
		ТХ	825.5 MHz	836.5 MHz	847.5 MHz
	3MHz	DV	Channel 8805	Channel 8915	Channel 9025
		КЛ	860.5 MHz	881.5 MHz	892.5 MHz
	5MHz	TV	Channel 26815	Channel 26915	Channel 27015
LTE Band26			826.5 MHz	836.5 MHz	846.5 MHz
(824-849)		IX / RX         Low (L)         Middle (M)           TX         Channel 26797         Channel 26918           RX         824.7 MHz         836.5 MHz           RX         Channel 8697         Channel 8915           RX         Channel 26805         Channel 26918           TX         859.7 MHz         881.5 MHz           RX         Channel 26805         Channel 26918           TX         825.5 MHz         836.5 MHz           RX         Channel 26805         Channel 26918           TX         825.5 MHz         836.5 MHz           RX         Channel 26805         Channel 26918           TX         826.5 MHz         881.5 MHz           S26.5 MHz         836.5 MHz         836.5 MHz           RX         Channel 26815         Channel 26918           TX         826.5 MHz         836.5 MHz           RX         Channel 26815         Channel 8915           RX         Channel 26840         Channel 26918           TX         829 MHz         836.5 MHz           RX         Channel 8840         Channel 8915           RX         Channel 26865         Channel 26918           RX         Channel 26865         Channel 26918	Channel 8815	Channel 8915	Channel 9015
(			881.5 MHz	891.5 MHz	
			Channel 26840	Channel 26915	Channel 26990
		ТХ	829 MHz	836.5 MHz	844 MHz
	10MHz	DV	Channel 8840	Channel 8915	Channel 8990
		КЛ	874 MHz	881.5 MHz	889 MHz
			Channel 26865	Channel 26915	Channel 26965
		IX	831.5 MHz	836.5 MHz	841.5 MHz
	15MHz	RX	Channel 8865	Channel 8915	Channel 8965
		RX TX RX TX TX	876.5 MHz	881.5 MHz	886.5 MHz



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Test Mode	Bandwidth	TX / RX		RF Channel		
Test Mode	Danuwiutii		Low (L)	Middle (M)	High (H)	
			Channel 27685	Channel27710	Channel 27735	
		TX	2307.5 MHz	2310MHz	2312.5 MHz	
	5MHz	RX	Channel 9795	Channel 9820	Channel 9845	
LTE Band 30		КЛ	2352.5MHz	2355 MHz	2357.5MHz	
LIE Banu 30			Channel 27710	Channel27710	Channel27710	
		TX	2310 MHz	2310MHz	2310MHz	
	10MHz	RX	Channel 9820	Channel 9820	Channel 9820	
		۳۸	2355 MHz	2355 MHz	2355 MHz	

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

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





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Test Mode	Bandwidth	TX / RX		RF Channel	
	Danuwiuth		Low (L)	Middle (M)	High (H)
			Channel 42115	Channel 42590	Channel 43065
		TX	3452.5 MHz	3500 MHz	3547.5 MHz
	5MHz	RX	Channel 42115	Channel 42590	Channel 43065
			3452.5 MHz	3500 MHz	3547.5 MHz
	10MHz	TX RX	Channel 42140	Channel 42590	Channel 43040
			3455 MHz	3500 MHz	3545 MHz
			Channel 42140	Channel 42590	Channel 43040
LTE Band 42			3455 MHz	3500 MHz	3545 MHz
(3450-3550)			Channel 42165	Channel 42590	Channel 43015
		TX	3457.5 MHz	3500 MHz	3542.5 MHz
	15MHz	RX	Channel 42165	Channel 42590	Channel 43015
		ГЛ	3457.5 MHz	3500 MHz	3542.5 MHz
			Channel 42190	Channel 42590	Channel 42990
		TX	3460 MHz	3500 MHz	3540 MHz
	20MHz	RX	Channel 42190	Channel 42590	Channel 42990
		۲A	3460 MHz	3500 MHz	3540 MHz

Test Mode Bandwidt	Bandwidth	TX / RX	RF Channel		
Test Mode	Danuwiuun		Low (L)	Middle (M)	High (H)
			Channel 44615	Channel45090	Channel 45565
	5MHz	TX/RX	3702.5 MHz	3750.0 MHz	3797.5 MHz
	40141-	TX/RX	Channel 44640	Channel45090	Channel 45540
LTE Band 43	10MHz		3705.0 MHz	3750.0 MHz	3795.0 MHz
(3700-3800)			Channel 44665	Channel45090	Channel 45515
	15MHz	TX/RX	3707.5 MHz	3750.0 MHz	3792.5 MHz
	001411-		Channel 44690	Channel45090	Channel 45490
	20MHz	TX/RX	3710 MHz	3750.0 MHz	3790.0 MHz



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				RF Channel	
Test Mode	Bandwidth	TX / RX	Low (L)	Middle (M)	High (H)
			Channel 131979	Channel 132322	Channel 132665
		TX	1710.7 MHz	1745 MHz	1779.3 MHz
	1.4MHz		Channel 66443	Channel 66786	Channel 67329
		RX	2110.7 MHz	2145MHz	2199.3 MHz
			Channel 131987	Channel 132322	Channel 132657
		TX	1711.5 MHz	1745 MHz	1778.5MHz
	3MHz	RX	Channel 66451	Channel 66786	Channel 67321
			2111.5 MHz	2145MHz	2198.5MHz
	5MHz	тх	Channel 131997	Channel 132322	Channel 132647
			1712.5 MHz	1745 MHz	1777.5 MHz
		RX	Channel 66461	Channel 66786	Channel 67311
LTE Band66			2112.5 MHz	2145MHz	2197.5 MHz
LIE Banuoo			Channel 132022	Channel 132322	Channel 132622
		ТХ	1715 MHz	1745 MHz	1775 MHz
	10MHz	RX	Channel 66486	Channel 66786	Channel 67286
			2115 MHz	2145MHz	2195 MHz
			Channel 132047	Channel 132322	Channel 132597
		ТХ	1717.5 MHz	1745 MHz	1772.5 MHz
	15MHz	RX	Channel 66511	Channel 66786	Channel 67261
			2117.5 MHz	2145MHz	2192.5 MHz
			Channel 132072	Channel 132322	Channel 132572
		TX	1720 MHz	1745 MHz	1770 MHz
	20MHz	RX	Channel 66536	Channel 66786	Channel 67236
			2120 MHz	2145MHz	2190 MHz



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



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Range	CC-Combo / NRB_agg [RB]	CC1 Note1						CC2 Note1						
		BW [RB]	NUL	fuL [MHz]	NDL	f <sub>DL</sub> [MHz]	BW [RB]	NUL	fu∟ [MHz]	NDL	f <sub>DL</sub> [MHz]			
Low	25+100	25	18633	1853.3	633	1933.3	100	18750	1865	750	1945			
		100	18700	1860	700	1940	25	18817	1871.7	817	1951.7			
	50+75	50	18653	1855.3	653	1935.3	75	18773	1867.3	773	1947.3			
		75	18675	1857.5	675	1937.5	50	18795	1869.5	795	1949.5			
	50+100	50	18655	1855.5	655	1935.5	100	18799	1869.9	799	1949.9			
		100	18700	1860	700	1940	50	18844	1874.4	844	1954.4			
	75+75	75	18675	1857.5	675	1937.5	75	18825	1872.5	825	1952.5			
	75+100	75	18678	1857.8	678	1937.8	100	18849	1874.9	849	1954.9			
		100	18700	1860	700	1940	75	18871	1877.1	871	1957.1			
	100+100	100	18700	1860	700	1940	100	18898	1879.8	898	1959.8			
Mid	25+100	25	18808	1870.8	808	1950.8	100	18925	1882.5	925	1962.5			
		100	18875	1877.5	875	1957.5	25	18992	1889.2	992	1969.2			
	50+75	50	18829	1872.9	829	1952.9	75	18949	1884.9	949	1964.9			
		75	18851	1875.1	851	1955.1	50	18971	1887.1	971	1967.1			
	50+100	50	18806	1870.6	806	1950.6	100	18950	1885	950	1965			
		100	18851	1875.1	851	1955.1	50	18995	1889.5	995	1969.5			
	75+75	75	18825	1872.5	825	1952.5	75	18975	1887.5	975	1967.5			
	75+100	75	18803	1870.3	803	1950.3	100	18974	1887.4	974	1967.4			
		100	18826	1872.6	826	1952.6	75	18997	1889.7	997	1969.7			
	100+100	100	18801	1870.1	801	1950.1	100	18999	1889.9	999	1969.9			
High	25+100	25	18983	1888.3	983	1968.3	100	19100	1900	1100	1980			
		100	19050	1895	1050	1975	25	19167	1906.7	1167	1986.7			
	50+75	50	19005	1890.5	1005	1970.5	75	19125	1902.5	1125	1982.5			
		75	19027	1892.7	1027	1972.7	50	19147	1904.7	1147	1984.7			
	50+100	50	18956	1885.6	956	1965.6	100	19100	1900	1100	1980			
		100	19001	1890.1	1001	1970.1	50	19145	1904.5	1145	1984.5			
	75+75	75	18975	1887.5	975	1967.5	75	19125	1902.5	1125	1982.5			
	75+100	75	18929	1882.9	929	1962.9	100	19100	1900	1100	1980			
		100	18951	1885.1	951	1965.1	75	19122	1902.2	1122	1982.2			
	100+100	100	18902	1880.2	902	1960.2	100	19100	1900	1100	1980			
Note 1:	Carriers in ind	reasing f	requency	order.										

Table 4.3.1.1.2A-2: Test frequencies for CA\_2C



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	CC-Combo / NRB_agg			CC1					CC2		
Range	[RB]			Note1					Note1		
		BW [RB]	NUL	fu∟ [MHz]	NDL	f <sub>DL</sub> [MHz]	BW [RB]	NUL	fu∟ [MHz]	NDL	f <sub>DL</sub> [MHz]
Low	15+25	15	20416	825.6	2416	870.6	25	20455	829.5	2455	874.5
		25	20425	826.5	2425	871.5	15	20464	830.4	2464	875.4
	25+50	25	20428	826.8	2428	871.8	50	20500	834	2500	879
	50+25	50	20450	829	2450	874	25	20522	836.2	2522	881.2
	50+50	50	20450	829	2450	874	50	20549	838.9	2549	883.9
Mid	15+25	15	20501	834.1	2501	879.1	25	20540	838.0	2540	883.0
		25	20510	835.0	2510	880.0	15	20549	838.9	2549	883.9
	25+50	25	20478	831.8	2478	876.8	50	20550	839	2550	884
	50+25	50	20500	834	2500	879	25	20572	841.2	2572	886.2
	50+50	50	20476	831.6	2476	876.6	50	20575	841.5	2575	886.5
High	15+25	15	20586	842.6	2586	887.6	25	20625	846.5	2625	891.5
-		25	20595	843.5	2595	888.5	15	20634	847.4	2634	892.4
	25+50	25	20528	836.8	2528	881.8	50	20600	844	2600	889
	50+25	50	20550	839	2550	884	25	20622	846.2	2622	891.2
	50+50	50	20501	834.1	2501	879.1	50	20600	844	2600	889
Note 1:	Carriers in ind	Carriers in increasing frequency order.									

Table 4.3.1.1.5A-1: Test frequencies for CA_5B
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Table 4.3.1.1.7A-1: Test frequencies for CA\_7C

Range	CC-Combo / N <sub>RB_agg</sub> [RB]			CC1 Note1			CC2 Note1						
		BW [RB]	NuL	f∪∟ [MHz]	NDL	f <sub>DL</sub> [MHz]	BW [RB]	NUL	fu∟ [MHz]	NDL	f <sub>DL</sub> [MHz]		
Low	50+100	50	20805	2505.5	2805	2625.5	100	20949	2519.9	2949	2639.9		
		100	20850	2510	2850	2630	50	20994	2524.4	2994	2644.4		
ľ	75+50	75	20825	2507.5	2825	2627.5	50	20945	2519.5	2945	2639.5		
	75+75	75	20825	2507.5	2825	2627.5	75	20975	2522.5	2975	2642.5		
	75+100	75	20828	2507.8	2828	2627.8	100	20999	2524.9	2999	2644.9		
		100	20850	2510	2850	2630	75	21021	2527.1	3021	2647.1		
	100+100	100	20850	2510	2850	2630	100	21048	2529.8	3048	2649.8		
Mid	50+100	50	21006	2525.6	3006	2645.6	100	21150	2540	3150	2660		
		100	21051	2530.1	3051	2650.1	50	21195	2544.5	3195	2664.5		
	75+50	75	21051	2530.1	3051	2650.1	50	21171	2542.1	3171	2662.1		
	75+75	75	21025	2527.5	3025	2647.5	75	21175	2542.5	3175	2662.5		
	75+100	75	21003	2525.3	3003	2645.3	100	21174	2542.4	3174	2662.4		
		100	21026	2527.6	3026	2647.6	75	21197	2544.7	3197	2664.7		
	100+100	100	21001	2525.1	3001	2645.1	100	21199	2544.9	3199	2664.9		
High	50+100	50	21206	2545.6	3206	2665.6	100	21350	2560	3350	2680		
		100	21251	2550.1	3251	2670.1	50	21395	2564.5	3395	2684.5		
	75+50	75	21277	2552.7	3277	2672.7	50	21397	2564.7	3397	2684.7		
	75+75	75	21225	2547.5	3225	2667.5	75	21375	2562.5	3375	2682.5		
	75+100	75	21179	2542.9	3179	2662.9	100	21350	2560	3350	2680		
		100	21201	2545.1	3201	2665.1	75	21372	2562.2	3372	2682.2		
	100+100	100	21152	2540.2	3152	2660.2	100	21350	2560	3350	2680		
Note 1:	Carriers in inc	reasing f	requency	order.						I			



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Range	CC- Combo / N <sub>RB_agg</sub> [RB]		CC1 Note1			CC2 Note1	
		BW [RB]	NUL/DL	fu∟⁄b∟ [MHz]	BW [RB]	N <sub>UL/DL</sub>	ful/dl [MHz]
Low	75+75	75	37825	2577.5	75	37975	2592.5
	100+100	100	37850	2580	100	38048	2599.8
Mid	75+75	75	37925	2587.5	75	38075	2602.5
	100+100	100	37901	2585.1	100	38099	2604.9
High	75+75	75	38025	2597.5	75	38175	2612.5
	100+100	100	37952	2590.2	100	38150	2610

### Table 4.3.1.2.6A-1: Test frequencies for CA\_38C

Note 1: Carriers in increasing frequency order.



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 ies for CA 41C

Table 4.3.1.2.9A-1: Test	frequencies for CA_41C

Range	CC- Combo / N <sub>RB_agg</sub> [RB]		CC1 Note1			CC2 Note1				
		BW [RB]	N <sub>UL/DL</sub>	ful/dl [MHz]	BW [RB]	Nul/dl	ful/bl [MHz]			
Low	25+100	25	39683	2499.3	100	39800	2511			
		100	39750	2506	25	39867	2517.7			
	50+75	50	39703	2501.3	75	39823	2513.3			
		75	39725	2503.5	50	39845	2515.5			
	50+100	50	39705	2501.5	100	39849	2515.9			
		100	39750	2506	50	39894	2520.4			
	75+75	75	39725	2503.5	75	39875	2518.5			
	75+100	75	39728	2503.8	100	39899	2520.9			
		100	39750	2506	75	39921	2523.1			
	100+100	100	39750	2506	100	39948	2525.8			
Mid	25+100	25	40528	2583.8	100	40645	2595.5			
	1 1	100	40595	2590.5	25	40712	2602.2			
	50+75	50	40549	2585.9	75	40669	2597.9			
		75	40571	2588.1	50	40691	2600.1			
	50+100	50	40526	2583.6	100	40670	2598.0			
	F	100	40571	2588.1	50	40715	2602.5			
	75+75	75	40545	2585.5	75	40695	2600.5			
	75+100	75	40523	2583.3	100	40694	2600.4			
	I [	100	40546	2585.6	75	40717	2602.7			
	100+100	100	40521	2583.1	100	40719	2602.9			
High	25+100	25	41373	2668.3	100	41490	2680			
	1 [	100	41440	2675	25	41557	2686.7			
	50+75	50	41395	2670.5	75	41515	2682.5			
		75	41417	2672.7	50	41537	2684.7			
	50+100	50	41346	2665.6	100	41490	2680			
		100	41391	2670.1	50	41535	2684.5			
	75+75	75	41365	2667.5	75	41515	2682.5			
	75+100	75	41319	2662.9	100	41490	2680			
		100	41341	2665.1	75	41512	2682.2			
	100+100	100	41292	2660.2	100	41490	2680			



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Range	CC- Combo / NRB_agg [RB]		CC1 Note1		CC2 Note1					
		BW [RB]	N <sub>UL/DL</sub>	f <sub>UL/DL</sub> [MHz]	BW [RB]	N <sub>UL/DL</sub>	f <sub>UL/DL</sub> [MHz]			
Low	25+100	25	42123	3453.3	100	42240	3465			
		100	42190	3460	25	42307	3471.7			
	50, 100	50	42145	3455.5	100	42289	3469.9			
	50+100	100	42190	3460	50	42334	3474.4			
	75+100	75	42168	3457.8	100	42339	3474.9			
		100	42190	3460	75	42361	3477.1			
	100+100	100	42190	3460	100	42388	3479.8			
Mid	25+100	25	42498	3490.8	100	42615	3502.5			
		100	42565	3497.5	25	42682	3509.2			
		50	42496	3490.6	100	42640	3505			
	50+100	100	42541	3495.1	50	42685	3509.5			
	75+100	75	42493	3490.3	100	42664	3507.4			
		100	42516	3492.6	75	42687	3509.7			
	100+100	100	42491	3490.1	100	42689	3509.9			
High	25+100	25	42873	3528.3	100	42990	3540			
Ū		100	42940	3535	25	43057	3546.7			
	<b></b>	50	42846	3525.6	100	42990	3540			
	50+100	100	42891	3530.1	50	43035	3544.5			
	75+100	75	42819	3522.9	100	42990	3540			
		100	42841	3525.1	75	43012	3542.2			
	100+100	100	42792	3520.2	100	42990	3540			
Note 1:	Carriers in incl	reasing freque	ency order.							

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	CC-Combo /		CC1			CC2	
Range	NRB_agg		Note1			Note1	
	[RB]						
		BW	NI	f <sub>UL/DL</sub>	BW	N	f <sub>UL/DL</sub>
		[RB]	N <sub>UL/DL</sub>	[MHz]	[RB]	N <sub>UL/DL</sub>	[MHz]
	25+100	25	44623	3703.3	100	44740	3715
		100	44690	3710	25	44807	3721.7
	50+100	50	44645	3705.5	100	44789	3719.9
Low	50+100	100	44690	3710	50	44834	3724.4
	75+100	75	44668	3707.8	100	44839	3724.9
		100	44690	3710	75	44861	3727.1
	100+100	100	44690	3710	100	44888	3729.8
	25+100	25	44998	3740.8	100	45115	3752.5
		100	45065	3747.5	25	45182	3759.2
	50+100	50	44996	3740.6	100	45140	3755
Mid	50+100	100	45041	3745.1	50	45185	3759.5
	75+100	75	44993	3740.3	100	45164	3757.4
		100	45016	3742.6	75	45187	3759.7
	100+100	100	44991	3740.1	100	45189	3759.9
	25+100	25	45373	3778.3	100	45490	3790
		100	45440	3785	25	45557	3796.7
	50+100	50	45346	3775.6	100	45490	3790
High	50+100	100	45391	3780.1	50	45535	3794.5
	75+100	75	45319	3772.9	100	45490	3790
		100	45341	3775.1	75	45512	3792.2
	100+100	100	45292	3770.2	100	45490	3790
Note 1: Carr	iers in increasin	g frequency o	order.				



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Range	CC-Combo / NRB_agg [RB]			CC1 Note1			CC2 Note1						
		BW [RB]	NUL	f <sub>UL</sub> [MHz]	NDL	f <sub>DL</sub> [MHz]	BW [RB]	NUL	fuL [MHz]	NDL	f <sub>DL</sub> [MHz]		
	25+25	25	131997	1712.5	66461	2112.5	25	132045	1717.3	66509	2117.3		
Low	25+50	25	132000	1712.8	66464	2112.8	50	132072	1720	66536	2120		
		50	132022	1715	66486	2115	25	132094	1722.2	66558	2122.2		
	25+75	25	132002	1713	66466	2113	75	132095	1722.3	66559	2122.3		
		75	132047	1717.5	66511	2117.5	25	132140	1726.8	66604	2126.8		
	50+50	50	132022	1715	66486	2115	50	132121	1724.9	66585	2124.9		
	25+25	25	132398	1752.6	66862	2152.6	25	132446	1757.4	66910	2157.4		
	25+50	25	132375	1750.3	66839	2150.3	50	132447	1757.5	66911	2157.5		
Mid		50	132397	1752.5	66861	2152.5	25	132469	1759.7	66933	2159.7		
	25+75	25	132353	1748.1	66817	2148.1	75	132446	1757.4	66910	2157.4		
		75	132398	1752.6	66862	2152.6	25	132491	1761.9	66955	2161.9		
	50+50	50	132373	1750.1	66837	2150.1	50	132472	1760	66936	2160		
	25+25	25	132647	1777.5	67111	2177.5	25	NA	NA	67159	2182.3		
	25+50	25	132647	1777.5	67111	2177.5	50	NA	NA	67183	2184.7		
High <sup>2</sup>		50	132622	1775	67086	2175	25	NA	NA	67158	2182.2		
riigii	25+75	25	132647	1777.5	67111	2177.5	75	NA	NA	67204	2186.8		
		75	132597	1772.5	67061	2172.5	25	NA	NA	67154	2181.8		
	50+50	50	132622	1775	67086	2175	50	NA	NA	67185	2184.9		
	25+25	25	132599	1772.7	67063	2172.7	25	132647	1777.5	67111	2177.5		
	25+50	25	132550	1767.8	67014	2167.8	50	132622	1775.	67086	2175		
High <sup>3</sup>		50	132572	1770	67036	2170	25	132644	1777.2	67108	2177.2		
nign	25+75	25	132504	1763.2	66968	2163.2	75	132597	1772.5	67061	2172.5		
		75	132549	1767.7	67013	2167.7	25	132642	1777	67106	2177		
	50+50	50	132523	1765.1	66987	2165.1	50	132622	1775	67086	2175		
Note 1: Note 2: Note 3:	Carriers in increasing frequency order. Applicable for intra-band contiguous CA without UL CA. Applicable for intra-band contiguous CA with UL CA.												

#### Table 4.3.1.1.66A-1: Test frequencies for CA\_66B



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### LTE CA\_66C :

Range	CC-Combo / NRB_agg [RB]			CC1 Note1					CC2 Note1		
		BW [RB]	NUL	fuL [MHz]	NDL	f <sub>DL</sub> [MHz]	BW [RB]	NUL	fuL [MHz]	NDL	f <sub>DL</sub> [MHz]
	50+75	50	132025	1715.3	66489	2115.3	75	132145	1727.3	66609	2127.3
		75	132047	1717.5	66511	2117.5	50	132167	1729.5	66631	2129.5
	50+100	50	132027	1715.5	66491	2115.5	100	132171	1729.9	66635	2129.9
		100	132072	1720	66536	2120	50	132216	1734.4	66680	2134.4
Low	75+75	75	132047	1717.5	66511	2117.5	75	132197	1732.5	66661	2132.5
Low	75+100	75	132050	1717.8	66514	2117.8	100	132221	1734.9	66685	2134.9
		100	132072	1720	66536	2120	75	132243	1737.1	66707	2137.1
	100+25	100	132072	1720	66536	2120	25	132189	1731.7	66653	2131.7
		25	132005	1713.3	66469	2113.3	100	132122	1725.0	66586	2125.0
	100+100	100	132072	1720	66536	2120	100	132270	1739.8	66734	2139.8
	50+75	50	132351	1747.9	66815	2147.9	75	132471	1759.9	66935	2159.9
		75	132373	1750.1	66837	2150.1	50	132493	1762.1	66957	2162.1
	50+100	50	132328	1745.6	66792	2145.6	100	132472	1760	66936	2160
		100	132373	1750.1	66837	2150.1	50	132517	1764.5	66981	2164.5
Mid	75+75	75	132347	1747.5	66811	2147.5	75	132497	1762.5	66961	2162.5
IVIIG	75+100	75	132325	1745.3	66789	2145.3	100	132496	1762.4	66960	2162.4
		100	132348	1747.6	66812	2147.6	75	132519	1764.7	66983	2164.7
	100+25	100	132397	1752.5	66861	2152.5	25	132514	1764.2	66978	2164.2
		25	132330	1745.8	66794	2145.8	100	132447	1757.5	66911	2157.5
	100+100	100	132323	1745.1	66787	2145.1	100	132521	1764.9	66985	2164.9
	50+75	50	132622	1775	67086	2175	75	NA	NA	67206	2187
		75	132597	1772.5	67061	2172.5	50	NA	NA	67181	2184.5
	50+100	50	132622	1775	67086	2175	100	NA	NA	67230	2189.4
		100	132572	1770	67036	2170	50	NA	NA	67180	2184.4
High <sup>2</sup>	75+75	75	132597	1772.5	67061	2172.5	75	NA	NA	67211	2187.5
	75+100	75	132597	1772.5	67061	2172.5	100	NA	NA	67232	2189.6
		100	132572	1770	67036	2170	75	NA	NA	67207	2187.1
	100+25	100	132572	1770	67036	2170	25	NA	NA	67153	2181.7
		25	132647	1777.5	67111	2177.5	100	NA	NA	67228	2189.2
	100+100	100	132572	1770	67036	2170	100	NA	NA	67234	2189.8
	50+75	50	132477	1760.5	66941	2160.5	75	132597	1772.5	67061	2172.5
		75	132499	1762.7	66963	2162.7	50	132619	1774.7	67083	2174.7
	50+100	50	132428	1755.6	66892	2155.6	100	132572	1770	67036	2170
High <sup>3</sup>		100	132473	1760.1	66937	2160.1	50	132617	1774.5	67081	2174.5
	75+75	75	132447	1757.5	66911	2157.5	75	132597	1772.5	67061	2172.5
	75+100	75	132401	1752.9	66885	2152.9	100	132572	1770	67036	2170
		100	132423	1755.1	66887	2155.1	75	132594	1772.2	67058	2172.2
	100+25	100	132522	1765	66986	2165	25	132639	1776.7	67103	2176.7
		25	132455	1758.3	66919	2158.3	100	132572	1770.0	67036	2170.0
	100+100	100	132374	1750.2	66838	2150.2	100	132572	1770	67036	2170
Note 1: Note 2:	Carriers in incre Applicable for i	ntra-ban	d contiguou	is CA without							
Note 3:	Applicable for i	ntra-bah	u contiguot	IS CA WITH UL	CA.						



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#### **Description of Tests** 4

### 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: C63.26 -2015 section 5.2.4

#### **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 × 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

- 1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- RBW = 1 5% of the expected OBW
- 3. VBW  $\geq$  3 x RBW
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple
- 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 rms.

#### Remark: Reference test setup 1

Test Settings

- 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
- 9. 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 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 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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## 4.8 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.  $E (dB\mu V/m) = Measured amplitude level (dB\mu V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP(dB))$ EIRP (dBm) = E (dB $\mu$ V/m) + 20 log D - 104.8; where D is the measurement distance in meters

#### 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:  $E (dB\mu V/m) = Measured amplitude level (dB\mu V) + (Cable Loss (dB) + Antenna Factor (dB/m) - AMP(dB))$ 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**

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

Level = Reading Level(dBµV) + Factor(Antenna Factor (dB/m) + Cable Factor(dB) – AMP(dB)):

AF = Antenna Factor(dB/m)

AMP = Preamplifier qain(dB)

Margin = Limit( $dB\mu V/m$ ) – Level( $dB\mu V/m$ )

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:**

- 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**



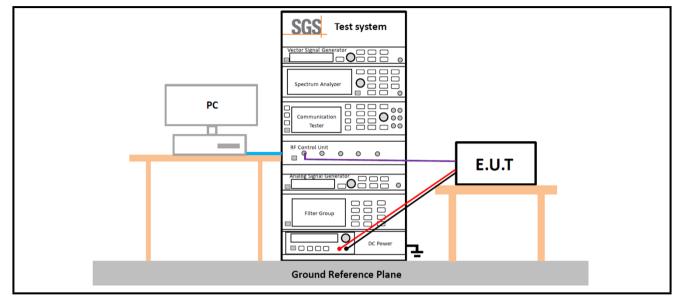
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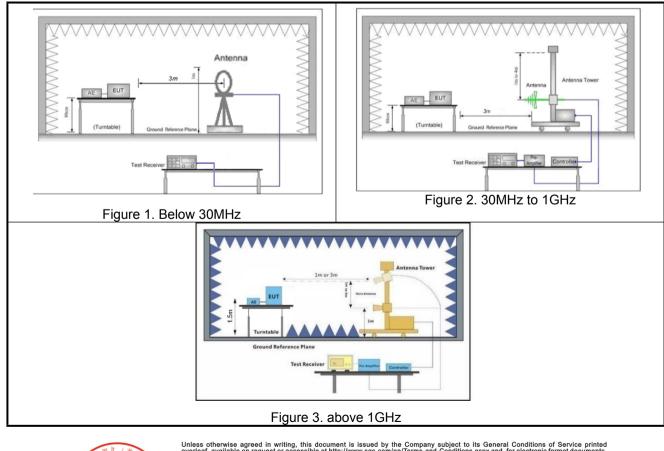
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## 4.10Test Setups

### 4.10.1 Test Setup 1



## 4.10.2 Test Setup 2





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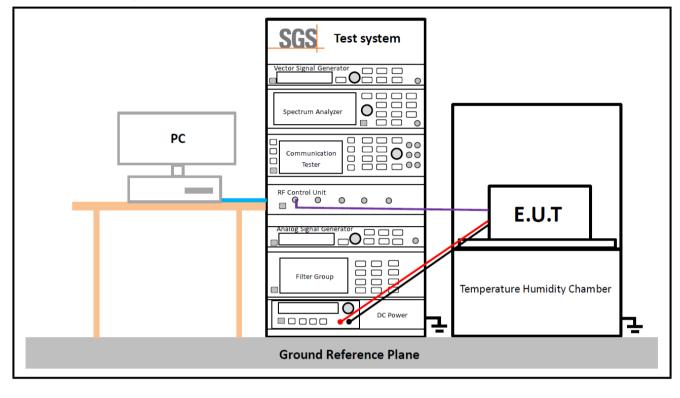
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#### 4.10.3 Test Setup 3





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## 4.11Test 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	UMTS/TM1; LTE/TM1;LTE/TM2; LTE/TM3;LTE/TM4
	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	UMTS/TM1; LTE/TM1;LTE/TM2; LTE/TM3;LTE/TM4
	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	UMTS/TM1; LTE/TM1;LTE/TM2; LTE/TM3;LTE/TM4
	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	UMTS/TM1; LTE/TM1;LTE/TM2; LTE/TM3;LTE/TM4
	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	UMTS/TM1; LTE/TM1;LTE/TM2; LTE/TM3;LTE/TM4



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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	UMTS/TM1; LTE/TM1;			
	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	UMTS/TM1; LTE/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	UMTS/TM1; LTE/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	<ul> <li>(1) -30 °C to +50 °C with step 10 °C at Rated Voltage</li> <li>(2) VL, VN and VH of Rated Voltage at Ambient Climate.</li> </ul>			
Test Setup	Test Setup 3			
RF Channels (TX)	M (M= middle channel)			
Test Mode	UMTS/TM1; LTE/TM1;			



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#### **Main Test Instruments** 5

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RF Test Equipment					
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	2021/5/8	2024/5/8
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2022/2/16	2023/2/15
	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2022/5/17	2023/5/16
Signal Analyzer				2021/5/28	2022/5/27
Measurement Software	Tonscend	JS1120-3 Test System V 2.6.88.0336	SUWI-02-09-09	NCR	NCR
Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	2021/12/4	2022/12/3
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2022/2/14	2023/2/13
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2022/2/15	2023/2/14
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-01	2022/2/15	2023/2/14
Signal Analyzer*	ROHDE&SCHWARZ FSW43	ES/1//2	SUWI-01-02-04	2022/5/28	2023/5/27
Signal Analyzel		F3043		2021/5/28	2022/5/27



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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-04-02-01	2021/5/8	2024/5/7
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2022/2/16	2023/2/15
Signal Analyzer*		FSW43	SUWI-01-02-04	2021/5/28	2022/5/27
Sigilal Analyzei	ROHDE&SCHWARZ			2022/5/28	2023/5/27
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	2023/6/9
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2022/2/14	2023/2/13
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2022/2/14	2023/2/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2022/2/19	2023/2/18
Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-16-08	2022/2/14	2023/2/13
Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	2021/12/4	2022/12/3
Measurement Software	Tonscend	JS32-RSE 4.0.0.1	SUWI-02-09-06	NCR	NCR

\*Note: This equipment was not used for testing on 2022/5/28.



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#### **Measurement Uncertainty** 6

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%
7		± 3.13dB (9kHz - 30MHz)
	Radiated Emission	± 4.8dB (30MHz - 1GHz)
		± 4.8dB (1GHz to 18GHz)
		± 4.8dB (Above 18GHz)
Remark <sup>.</sup>	·	•

Remark:

The U<sub>lab</sub> (lab Uncertainty) is less than U<sub>cisor/ETSI</sub> (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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The End



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