

Report No.: HR/2019/5000601

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FCC TEST REPORT

Application No: HR/2019/50006

Applicant: Quectel Wireless Solutions Co., Ltd.

Address of Applicant 7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District,

Shanghai 200233, China

Manufacturer: Quectel Wireless Solutions Co., Ltd.

Address of Manufacturer: 7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District,

Shanghai 200233, China

Factory: Quectel Wireless Solutions Co., Ltd.

Address of Factory: 7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District,

Shanghai 200233, China

EUT Description: LTE Module

Model No.: SC600Y-NA, SC600T-NA

Trade Mark: Quectel

FCC ID: XMR2019SC600NA

Standards: 47 CFR Part 2

47 CFR Part 22 subpart H 47 CFR Part 24 subpart E 47 CFR Part 27 subpart C 47 CFR Part 90 subpart R 47 CFR Part 90 subpart S

Test Method: FCC KDB 971168 D01 Power Meas License Digital Systems V03r01

C63.26 (2015)

Date of Receipt: 2019/5/29

Date of Test: 2019/5/30 to 2019/7/3

Date of Issue: 2019/7/3

Test Result: PASS *

Authorized Signature:

Derole yang

Derek Yang Wireless Laboratory Manager



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

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1 Version

Revision Record					
Version	Chapter	Date	Modifier	Remark	
00		2019/7/3		Original	

Authorized for issue by:		
Tested By	Mike Mu	
		2019/7/3
	(Mike Hu) /Project Engineer	Date
Checked By	David Chen	
		2019/7/3
	(David Chen) /Reviewer	Date

Remark:

The difference between SC600Y-NA and SC600T-NA showed as following:

SC600Y-NA and SC600T-NA are all LTE modules. They share the same software & hardware design (the chip component is pin-for-pin compatible; have the same basic function; no change in radio parameters has occurred.) . The difference is on chipset with different CPU frequency. The Chipset SDM450 is a derated version of the MSM8953. We hereby state that two models are identical in interior structure and components.

The detail is shown as following table.

Module	Chipset	frequency
SC600T-NA	Qualcomm MSM8953	2.0GHz
SC600Y-NA	Qualcomm SDM450	1.8GHz

According to the difference above, all the test were performed on SC600T-NA, and spot check the worst case Conducted power and RSE on SC600Y-NA, the conducted and RSE data shown in the report is the worst data.. and other data of SC600Y-NA can refer to SC600T-NA.



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2 Test Summary

2.1 UMTS Band 5 & LTE Band 5 / 26 (824 MHz -849MHz)

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §22.913	FCC: ERP ≤ 7 W	Section 1 of Appendix B	Pass
Peak-Average Ratio		Limit≤13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B	Pass
Band Edges Compliance	§2.1051, §22.917	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix B	Pass
Spurious Emission at Antenna Terminals	§2.1051, §22.917	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges.	Section 6 of Appendix B	Pass
Field Strength of Spurious Radiation	§2.1053, §22.917	FCC: ≤ -13 dBm/100 kHz.	Section 7 of Appendix B	Pass
Frequency Stability	§2.1055, §22.355	≤ ±2.5ppm.	Section 8 of Appendix B	Pass
Remark: For the verd	lict, the "N/A" denot	es "not applicable", the "N/T" denotes "not te	sted".	

2.2 UMTS Band 2 /LTE Band 2 /LTE Band 25

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §24.232	EIRP ≤ 2 W	Section 1 of Appendix B	Pass
Peak-Average Ratio	§2.1046, §24.232	Limit≤13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B	Pass
Band Edges Compliance	§2.1051, §24.238	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix B	Pass
Spurious Emission at Antenna Terminals	§2.1051, §24.238	≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Section 6 of Appendix B	Pass
Field Strength of Spurious Radiation	§2.1053, §24.238	≤ -13 dBm/1 MHz.	Section 7 of Appendix B	Pass
Frequency Stability	§2.1055, §24.235	≤ ±2.5 ppm.	Section 8 of Appendix B	Pass



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Test Item	FCC Rule No.	Requirements	Test Result	Verdict		
Remark: For the verd	Remark: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested".					

2.3 UMTS Band 4 /LTE Band 4 /LTE Band 66

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(d)	EIRP ≤ 1 W	Section 1 of Appendix B	Pass
Peak-Average Ratio	§2.1046, §27.50(d)	Limit≤13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B	Pass
Band Edges Compliance	§2.1051, §27.53(h)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix B	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(h)	≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Section 6 of Appendix B	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	≤ -13 dBm/1 MHz.	Section 7 of Appendix B	Pass
Frequency Stability	§2.1055, §27.54	≤ ±2.5 ppm.	Section 8 of Appendix B	Pass
Remark: For the verd	lict, the "N/A" denote	es "not applicable", the "N/T" denotes "not	tested".	

2.4 LTE Band 7/38/41

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(h)	EIRP ≤ 2W	Section 1 of Appendix B	Pass
Peak-Average Ratio	§27.50(a)	≤13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B	Pass
Band Edges Compliance	§2.1051, §27.53(m4)	For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge,	Section 5 of Appendix B	Pass



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Test Item	FCC Rule No.	Requirements	Test Result	Verdict
		where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section.		
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)	Channel Edge -25dBm/ 1 MHz 1 MHz 1 MHz 9 kHz 95 MHz X MHz 10 th harmonics X=Max {6MHz, EBW}	Section 6 of Appendix B	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(m)	Channel Edge -25dBm/ 1 MHz 1 MHz 1 MHz 9 kHz 95 MHz X MHz 10 th harmonics X=Max {6MHz, EBW}	Section 7 of Appendix B	Pass
Frequency Stability	§2.1055, §27.54	Within authorized bands of operation/frequency block.	Section 8 of Appendix B	Pass
Remark: For the verd	ict, the "N/A" denot	es "not applicable", the "N/T" denotes "not	tested".	

2.5 LTE Band 12/17

Test Item	FCC Rule No	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§27.50(c)	FCC: ERP ≤ 3 W.	Section 1 of Appendix B	Pass
Peak-Average Ratio	§2.1046, §27.50(c)	Limit≤13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B	Pass
Band Edges Compliance	§2.1051, §27.53(g)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix B	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Section 6 of Appendix B	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	FCC: ≤ -13 dBm/100 kHz.	Section 7 of Appendix B	Pass
Frequency Stability	§2.1055, §27.54	≤ ±2.5ppm.	Section 8 of Appendix B	Pass
Remark: For the verd	lict, the "N/A" denot	es "not applicable", the "N/T" denotes "not	tested".	



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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)	FCC: ERP ≤ 3 W.	Section 1 of Appendix B	Pass
Peak-Average Ratio	§27.50	Limit≤13 dB	Section 2 of Appendix B	N/T
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass
Bandwidth	§2.1049,	OBW: No limit. EBW: No limit.	Section 4 of Appendix B	Pass
Band Edges Compliance	§2.1051, §27.53(c)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix B	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(c) §27.53(f)	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges. On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations. For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.	Section 6 of Appendix B	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	Pass
Frequency Stability	§2.1055, §27.54	Within authorized bands of operation/frequency block. tes "not applicable", the "N/T" denotes "not tested".	Section 8 of Appendix B	Pass

2.7 LTE Band 14

Test Item	FCC Rule No	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§90.365	FCC: ERP ≤ 3 W.	Section 1 of Appendix B	Pass
Peak-Average Ratio	§2.1046, §27.50(c)	Limit≤13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass



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Test Item	FCC Rule No	Requirements	Test Result	Verdict
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B	Pass
Emission Mask	§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	Pass
Band Edges Compliance	§2.1051, §90.543(e)	(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 and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.	Section 6 of Appendix B	Pass
Spurious Emission at Antenna Terminals	§2.1051, §90.543(c) §90.543(f)	FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges. For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated	Section 7 of Appendix B	Pass



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Test Item	FCC Rule No	Requirements	Test Result	Verdict
		power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.		
Field Strength of Spurious Radiation	§2.1053, §90.543(c) §90.543(f)	FCC: ≤ -13 dBm/100 kHz. For operations in the 758–775 MHz and 788–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.	Section 8 of Appendix B	Pass
Frequency Stability	§2.1055, §90.213	≤ ±2.5ppm.	Section 9 of Appendix B	Pass
Remark: For the verdict,	the "N/A" denote	s "not applicable", the "N/T" denotes "not tes	sted".	•

2.8 LTE Band 26 (814 MHz -824MHz)

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Transmitter Conducted Power Output	§2.1046, §90.635	< 100 W.	Section 1 of Appendix B	PASS
Peak-Average Ratio		FCC: Limit≤13 dB	Section 2 of Appendix B	N/T
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	PASS
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B	PASS
Emission Mask	§2.1051 § 90.691	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	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	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	PASS
Frequency Stability	§2.1055, §90.213	< ±2.5ppm. notes "not applicable", the "N/T" denotes "no	Section 8 of Appendix B	PASS



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2.9 LTE Band 71

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(c)	EIRP≤3W	Section 1 of Appendix B	Pass
Peak-Average Ratio	§2.1046,	Limit≤13 dB	Section 2 of Appendix B	Pass
Modulation Characteristics	§2.1047	Digital modulation	Section 3 of Appendix B	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Section 4 of Appendix B	Pass
Band Edges Compliance	§2.1051, §27.53(g)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Section 5 of Appendix B	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.	Section 6 of Appendix B	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	≤ -13 dBm/1 MHz.	Section 7 of Appendix B	Pass
Frequency Stability	§2.1055, §27.54	within the authorized bands of operation.	Section 8 of Appendix B	Pass
Remark: For the verdict,	the "N/A" denote	es "not applicable", the "N/T" denotes "not te	sted".	



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3 **General Information**

3.1 Client Information

Applicant:	Quectel Wireless Solutions Co., Ltd.
Address of Applicant:	7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District, Shanghai 200233, China
Manufacturer:	Quectel Wireless Solutions Co., Ltd.
Address of Manufacturer:	7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District, Shanghai 200233, China
Factory:	Quectel Wireless Solutions Co., Ltd.
Address of Factory:	7th Floor, Hongye Building, No.1801 Hongmei Road, Xuhui District, Shanghai 200233, China

3.2 Test Location

Company:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Address:	No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China
Post code:	518057
Telephone:	+86 (0) 755 2601 2053
Fax:	+86 (0) 755 2671 0594
E-mail:	ee.shenzhen@sgs.com



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3.3 Test Facility

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

• CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

FCC –Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.



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3.4 General Description of EUT

EUT Description::	LTE Module
Model No.:	SC600Y-NA, SC600T-NA
Trade Mark:	Quectel
Hardware Version:	R1.0
Software Version:	SC600YNAPAR05A02
Sample Type:	☐ Portable Device, ☑Module
Antenna Type:	⊠ External, ☐ Integrated
	WCDMA Band II:4.0dBi;
	WCDMA Band IV: 4.0dBi;
	WCDMA Band V: 4.0dBi;
	LTE Band 2: 4.0dBi;
	LTE Band 4: 4.0dBi;
	LTE Band 5: 4.0dBi;
	LTE Band 7: 4.0dBi;
Antenna Gain:	LTE Band 12: 4.0dBi;
Antenna Gain.	LTE Band 13: 4.0dBi;
	LTE Band 14: 4.0dBi;
	LTE Band 17: 4.0dBi;
	LTE Band 25: 4.0dBi;
	LTE Band 26: 4.0dBi;
	LTE Band 41: 4.0dBi;
	LTE Band 66: 4.0dBi;
	LTE Band 71: 4.0dBi

3.5 Test Mode

Test Mode	Test Modes Description
UMTS/TM1	UMTS system, WCDMA, QPSK modulation
UMTS/TM2	UMTS system, WCDMA, 16QAM modulation
LTE/TM1	LTE system, QPSK modulation
LTE/TM2	LTE system, 16QAM modulation

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



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3.6 Test Environment

Environment Parameter	Selected Values During Tests		
Relative Humidity	52%		
Atmospheric Pressure:	101.32 KPa		
Temperature	NT	25 °C	
	LV	3.55V	
Voltage:	NV	3.85V	
	HV	4.3V	

Remark: LV= lower extreme test voltage; NV= nominal voltage HV= upper extreme test voltage; NT= normal temperature



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3.7 Technical Specification

Characteristics	Description				
Characteristics	☐ UMTS				
Radio System Type	□ UMTS □ LTE				
		TV	DV		
	Band	TX	RX		
	UMTS Band II	1850 to 1910 MHz	1930 to 1990 MHz		
	UMTS Band IV	1710 to 1755 MHz	2110 to 2155 MHz		
	UMTS Band V	824 to 849 MHz	869 to 894 MHz		
	LTE Band 2	1850 to 1910 MHz	1930 to 1990 MHz		
	LTE Band 4	1710 to 1755 MHz	2110 to 2155 MHz		
	LTE Band 5	824 to 849 MHz	869 to 894 MHz		
	LTE Band 7	2500 to 2570 MHz	2620 to 2690 MHz		
	LTE Band 12	699 to 716 MHz	729 to 746 MHz		
Supported Frequency	LTE Band 13	777 to 787 MHz	746 to 756 MHz		
Range	LTE Band 14	LTE Band 14 788 to 798 MHz			
	LTE Band 17	704 to 716 MHz	734 to 746 MHz		
	LTE Band 25	1850 to 1915MHz	1930 to 1995 MHz		
	LTE Band 26	0444 004141	859 to 869 MHz		
	(814 to 824 MHz)	814 to 824MHz			
	LTE Band 26	2044 242 144	0001 001111		
	(824 to 849 MHz)	824 to 849 MHz	869 to 894 MHz		
	LTE Band 41	2496 to 2690MHz	2496 to 2690MHz		
	LTE Band 66	1710 to 1780 MHz	2110 to 2180 MHz		
	LTE Band 71	663 to 698 MHz	617 to 652 MHz		
Target TX Output Power	UMTS Band II: 24dBm UMTS Band IV: 24dBm UMTS Band V: 24dBm LTE Band 2: 24dBm LTE Band 4: 24dBm LTE Band 5: 24dBm LTE Band 7: 24dBm LTE Band 12: 24dBm LTE Band 13: 24dBm LTE Band 14: 24dBm LTE Band 17: 24dBm LTE Band 16: 24dBm LTE Band 17: 24dBm LTE Band 17: 24dBm LTE Band 17: 24dBm LTE Band 17: 24dBm LTE Band 25: 24dBm LTE Band 26: 24dBm				



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	LTE Band 41: 24dBm	
	LTE Band 66: 24dBm	
	LTE Band 71: 24dBm	
	UMTS system:	⊠5 MHz
	LTE Band 2	
	LTE Daniu Z	⊠15 MHz, ⊠20 MHz
	LTE Band 4	
	LIE Ballu 4	⊠15 MHz, ⊠20 MHz
	LTE Band 5	
	LTE Band 7	
	LTE Band 12	
	LTE Band 13	⊠5 MHz; ⊠10 MHz
Supported Channel	LTE Band 14	⊠5 MHz; ⊠10 MHz
Bandwidth	LTE Band 17	⊠5 MHz; ⊠10 MHz
Danaman	LTE Day LOS	
	LTE Band 25	<u></u> 15 MHz, <u></u> 20 MHz
	LTE Band 26(814-824)	
	,	∑1.4 MHz; ∑3 MHz; ∑5 MHz; ∑10 MHz;
	LTE Band 26(824-849)	□ 1.4 MHz
	LTE Band41	□ 15 MHz; □ 10 MHz; □ 15 MHz, □ 20 MHz
	LIE Band41	
	LTE Band66	⊠1.4 MHz;⊠3 MHz; ⊠5 MHz; ⊠10 MHz;
	LTC Dond74	⊠15 MHz, ⊠20 MHz
	LTE Band71	⊠5 MHz; ⊠10 MHz; ⊠15 MHz, ⊠20 MHz
Characteristics	Description	
	UMTS Band II	4M15F9W;
	UMTS Band IV	4M12F9W;
	UMTS Band V	4M14F9W;
		1M11G7D;1M10W7D;
		2M70G7D;2M69W7D;
	LTE Band 2	4M48G7D;4M50W7D;
	LIL Dana Z	8M93G7D;8M95W7D;
Designation of		13M5G7D;13M5W7D;
•		17M9G7D;17M9W7D;
Emissions		1M10G7D;1M10W7D;
(Remark: the necessary		2M70G7D;2M70W7D;
,	LTE Band 4	4M49G7D;4M49W7D;
the worst value from		8M93G7D;8M93W7D;
		13M5G7D;13M5W7D;
the measured occupied		17M9G7D;17M9W7D;
bandwidths for each		1M10G7D;1M10W7D;
type of channel	LTE Band 5	2M70G7D;2M69W7D;
bandwidth	LIL Danu 3	4M49G7D;4M48W7D;
configuration.)		8M95G7D;8M95W7D;
3 ,		4M49G7D;4M48W7D;
	LTE Band 7	8M93G7D;8M95W7D;
	LIE Dallu /	13M5G7D;13M5W7D;
		17M9G7D;17M9W7D;
		1M10G7D;1M10W7D;
	LTE Band 12	2M70G7D;2M70W7D;
	LIE Dallu IZ 	4M49G7D;4M49W7D;
		8M95G7D;8M95W7D;



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LTE Band13	4M48G7D;4M49W7D;
ETE Band 15	8M91G7D;8M91W7D;
LTE Band 14	4M48G7D;4M48W7D;
LTE Ballu 14	8M91G7D;8M89W7D;
LTE Band 17	4M49G7D;4M48W7D;
LIE Banu I <i>I</i>	8M93G7D;8M91W7D;
	1M12G7D;1M12W7D;
	2M71G7D;2M71W7D;
LTC Dond OF	4M49G7D;4M49W7D;
LTE Band 25	8M95G7D;8M93W7D;
	13M4G7D;13M5W7D;
	17M9G7D;17M9W7D;
	1M10G7D;1M10W7D;
LTE Band 26	2M70G7D;2M70W7D;
(814-824)	4M49G7D;4M48W7D;
•	8M91G7D;8M91W7D;
	1M10G7D;1M10W7D;
LTC Dond OC	2M70G7D;2M69W7D;
LTE Band 26	4M49G7D;4M48W7D;
(824-849)	8M93G7D;8M93W7D;
	13M5G7D;13M5W7D;
	4M48G7D;4M50W7D;
	8M91G7D;8M91W7D;
LTE Band 41	13M5G7D;13M5W7D;
	17M9G7D;17M9W7D;
	1M10G7D;1M10W7D;
	2M70G7D;2M69W7D;
LTE D 100	4M48G7D;4M50W7D;
LTE Band 66	8M91G7D;8M93W7D;
	13M5G7D;13M5W7D;
	17M9G7D;17M9W7D;
	4M48G7D;4M49W7D;
	8M95G7D;8M95W7D;
LTE Band 71	13M5G7D;13M5W7D;
	17M9G7D;17M9W7D;
	,



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3.8 Test Frequencies

Test Mode	est Mode TX / RX RF Channel				
i est iviode	IA/KA	Low (L)	Middle (M)	High (H)	
	TX	Channel 9262	Channel 9400	Channel 9538	
WCDMA	1.	1852.4 MHz	1880.0 MHz	1907.6 MHz	
Band II	DV	Channel 9662	Channel 9800	Channel 9938	
	RX	1932.4 MHz	1960.0 MHz	1987.6 MHz	

Test Mode	Mode TX / RX RF Channel				
rest Mode	IA/NA	Low (L)	Middle (M)	High (H)	
	TX	Channel 1312	Channel 1413	Channel 1513	
WCDMA Band IV	17	1712.4MHz	1732.6 MHz	1752.6 MHz	
	RX	Channel 1537	Channel 1638	Channel 1738	
	KΛ	2112.4 MHz	2132.6 MHz	2152.6 MHz	

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

				RF Channel	
Test Mode	Bandwidth	TX / RX	Low (L)	Middle (M)	High (H)
		T\/	Channel 18607	Channel 18900	Channel 19193
	4 48411-	TX	1850.7 MHz	1880 MHz	1909.3 MHz
	1.4MHz	DV	Channel 607	Channel 900	Channel 1193
		RX	1930.7 MHz	1960 MHz	1989.3 MHz
		TX	Channel 18615	Channel 18900	Channel 19185
	3MHz	1.7	1851.5 MHz	1880 MHz	1908.5 MHz
	SIVITZ	RX	Channel 615	Channel 900	Channel 1185
		KΛ	1931.5 MHz	1960 MHz	1988.5 MHz
		TX	Channel 18625	Channel 18900	Channel 19175
	5MHz	1.	1852.5 MHz	1880 MHz	1907.5 MHz
	SIVINZ	RX	Channel 625	Channel 900	Channel1175
LTE Band 2			1932.5 MHz	1960 MHz	1987.5 MHz
LIE Dallu Z		TX	Channel 18650	Channel 18900	Channel 19150
	10MHz		1855 MHz	1880 MHz	1905 MHz
	TOME	RX	Channel 650	Channel 900	Channel 1150
		KA_	1935 MHz	1960 MHz	1985 MHz
		TX	Channel 18675	Channel 18900	Channel 19125
	15MHz	1.	1857.5 MHz	1880 MHz	1902.5 MHz
	TOIVITZ	RX	Channel 675	Channel 900	Channel 1125
		KA	1937.5 MHz	1960 MHz	1982.5 MHz
		TX	Channel 18700	Channel 18900	Channel 19100
	20MHz	17	1860 MHz	1880 MHz	1900 MHz
	ZUIVITZ	DV	Channel 700	Channel 900	Channel 1100
		RX	1940 MHz	1960 MHz	1980 MHz



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Test Mode	Bandwidth	TX / RX		RF Channel	
Test Mode	Dariuwiuiii	17/87	Low (L)	Middle (M)	High (H)
		TX	Channel 19957	Channel 20175	Channel 20393
	4 4141-	1.7	1710.7 MHz	1732.5 MHz	1754.3 MHz
	1.4MHz	RX	Channel 1975	Channel 2175	Channel 2375
		KA	2112.5 MHz	2132.5MHz	2152.5 MHz
		TX	Channel 19965	Channel 20175	Channel 20385
	3MHz	1.	1711.5 MHz	1732.5 MHz	1753.5 MHz
	SIVITZ	RX	Channel 2000	Channel 2175	Channel 2350
		KA	2115 MHz	2132.5MHz	2150 MHz
		TX	Channel 19975	Channel 20175	Channel 20375
	5MHz	1.	1712.5 MHz	1732.5 MHz	1752.5 MHz
	SIVITZ	RX	Channel 1975	Channel 2175	Channel 2375
LTE Band 4			2112.5 MHz	2132.5MHz	2152.5 MHz
LIE Dallu 4		TX	Channel 20000	Channel 20175	Channel 20350
	10MHz		1715 MHz	1732.5 MHz	1750 MHz
	TOIVIE	RX	Channel 2000	Channel 2175	Channel 2350
		KA_	2115 MHz	2132.5MHz	2150 MHz
		TX	Channel 20025	Channel 20175	Channel 20325
	15MHz	1.	1717.5 MHz	1732.5 MHz	1747.5 MHz
	TOIVITZ	RX	Channel 2025	Channel 2175	Channel 2325
		KA	2117.5 MHz	2132.5MHz	2147.5 MHz
		TX	Channel 20050	Channel 20175	Channel 20300
	20MHz	1^	1720 MHz	1732.5 MHz	1745 MHz
	ZUIVITZ	RX	Channel 2050	Channel 2175	Channel 2300
		NΛ	2120 MHz	2132.5MHz	2145 MHz

Took Mode	Dog dy didd	TV / DV		RF Channel	
Test Mode	Test Mode Bandwidth	TX / RX	Low (L)	Middle (M)	High (H)
		TX	Channel 20407	Channel 20525	Channel 20643
	1.4MHz	1.	824.7 MHz	836.5 MHz	848.3 MHz
	1.4IVITZ	RX	Channel 2407	Channel 2525	Channel 2643
		KΛ	869.7 MHz	881.5 MHz	893.3 MHz
		TX	Channel 20415	Channel 20525	Channel 20635
	3MHz	1.	825.5 MHz	836.5 MHz	847.5 MHz
	SIVII IZ	RX	Channel 2415	Channel 2525	Channel 2635
LTE Band 5			870.5 MHz	881.5 MHz	892.5 MHz
LIE Dallu 3		TX	Channel 20425	Channel 20525	Channel 20625
	5MHz		826.5 MHz	836.5 MHz	846.5 MHz
	SIVITZ	RX	Channel 2425	Channel 2525	Channel 2625
			871.5 MHz	881.5 MHz	891.5 MHz
		TX	Channel 20450	Channel 20525	Channel 20600
	10MHz	1.	829 MHz	836.5 MHz	844 MHz
	TOME	RX	Channel 2450	Channel 2525	Channel 2600
		NΛ	874 MHz	881.5 MHz	889 MHz



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Test Mode	Bandwidth	TX / RX		RF Channel	
rest iviode	Dariuwiuiri	IA/RA	Low (L)	Middle (M)	High (H)
		TX	Channel 20775	Channel 21100	Channel 21425
	5MHz	1.	2502.5 MHz	2535 MHz	2567.5 MHz
	SIVINZ	RX	Channel 2775	Channel 3100	Channel 5825
		KA	2622.5 MHz	2655 MHz	2687.5 MHz
		T >	Channel 20800	Channel 21100	Channel 21400
	10MHz	TX	2505 MHz	2535 MHz	2565 MHz
	TOWNIZ	RX	Channel 2800	Channel 3100	Channel 3400
LTE Band 7			2625 MHz	2655 MHz	2685 MHz
LTE Ballu /		TX	Channel 20825	Channel 21100	Channel 21375
	15MHz		2507.5 MHz	2535 MHz	2562.5 MHz
	13WI1Z	RX	Channel 2825	Channel 3100	Channel 3375
			2627.5 MHz	2655 MHz	2682.5 MHz
		TX	Channel 20850	Channel 21100	Channel 21350
	201411-	17	2510 MHz	2535 MHz	2560 MHz
	20MHz	RX	Channel 2850	Channel 3100	Channel 3350
		NΛ	2630 MHz	2655 MHz	2680 MHz

Toot Mode	Bandwidth	TV / DV		RF Channel	
Test Mode	Bandwidin	TX / RX	Low (L)	Middle (M)	High (H)
		TX	Channel 23017	Channel 23095	Channel 23173
	1.4MHz	1.	699.7 MHz	707.5 MHz	715.3 MHz
	1.4IVITZ	RX	Channel 5017	Channel 5095	Channel 5173
		KA	729.7 MHz	737.5 MHz	745.3 MHz
		TX	Channel 23025	Channel 23095	Channel 23165
	3MHz	1.X	700.5 MHz	707.5 MHz	714.5 MHz
	SIVITZ	RX	Channel 5025	Channel 5095	Channel 5165
LTE Band12			730.5 MHz	737.5 MHz	744.5 MHz
LIE Dallu 12		TX	Channel 23035	Channel 23095	Channel 23155
	5MHz		701.5 MHz	707.5 MHz	713.5 MHz
	SIVITZ	RX	Channel 5035	Channel 5095	Channel 5155
			731.5 MHz	737.5 MHz	743.5 MHz
		TX	Channel 23060	Channel 23095	Channel 23130
	10MH=	1.	704 MHz	707.5 MHz	711 MHz
	10MHz	DV	Channel 5060	Channel 5095	Channel 5130
	RX	KΛ	734 MHz	737.5 MHz	741 MHz

Test Mode	Bandwidth	TX/RX	RF Channel		
rest Mode		17/87	Low (L)	Middle (M)	High (H)
		TX	Channel 23025	Channel 23230	Channel 23255
	5MHz	1.	779.5 MHz	782 MHz	784.5 MHz
	SIVITZ	RX	Channel 5205	Channel 5230	Channel 5255
LTE Band 13			748.5 MHz	751 MHz	753.5 MHz
LIE Dallu 13	40141-	TX	Channel 23230	Channel 23230	Channel 23230
			782 MHz	782 MHz	782 MHz
	10MHz	DV	Channel 5230	Channel 5230	Channel 5230
		RX	751 MHz	751 MHz	751 MHz



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Test Mode	Bandwidth TX / RX		RF Channel		
Test wode	Danuwiuin	IA/KA	Low (L)	Middle (M)	High (H)
		TV	Channel 23305	Channel 23330	Channel 23355
	5MHz	TX	790.5 MHz	793 MHz	795.5 MHz
	SIVITZ	RX	Channel 5305	Channel 5330	Channel 5355
LTE Band 14			760.5 MHz	763 MHz	765.5 MHz
LIE Dallu 14		TX	Channel 23330	Channel 23330	Channel 23330
	10MHz RX		793MHz	793 MHz	793 MHz
		DV	Channel 5330	Channel 5330	Channel 5330
		KΛ	763MHz	763 MHz	763 MHz

Test Mode	Bandwidth	TX / RX	RF Channel			
i est iviode	Dariuwiuiii	IA/KA	Low (L)	Middle (M)	High (H)	
		T V	Channel 23755	Channel 23790	Channel 23825	
	5MHz	TX	706.5 MHz	710 MHz	713.5 MHz	
	SIVITZ	RX	Channel 5755	Channel 5790	Channel 5825	
LTE Band 17			736.5 MHz	740 MHz	743.5 MHz	
LIE Danu II		TX	Channel 23780	Channel 23790	Channel 23800	
	10MHz		709 MHz	710 MHz	711 MHz	
	TUIVITZ	RX	Channel 5780	Channel 5790	Channel 5800	
			739 MHz	740 MHz	741 MHz	

Toot Made	Dondwidth	TX / RX		RF Channel	
Test Mode	Bandwidth	IA/RA	Low (L)	Middle (M)	High (H)
		TX	Channel 26047	Channel 26365	Channel 26683
	1.4MHz	17	1850.7 MHz	1882.5 MHz	1914.3 MHz
	1.41/1172	RX	Channel 8047	Channel 8365	Channel 8683
		NA .	1930.7 MHz	1962.5 MHz	1994.3 MHz
		TX	Channel 26055	Channel 26365	Channel 26675
	3MHz	17	1851.5 MHz	1882.5 MHz	1913.5 MHz
	SIVII IZ	RX	Channel 8055	Channel 8365	Channel 8675
		NA .	1931.5 MHz	1962.5 MHz	1993.5 MHz
		TX	Channel 26065	Channel 26365	Channel 26665
	5MHz	1.^	1852.5 MHz	1882.5 MHz	1912.5 MHz
		RX	Channel 8065	Channel 8365	Channel 8665
LTE Band 25			1932.5 MHz	1962.5 MHz	1992.5 MHz
LTE Ballu 25		TX	Channel 26090	Channel 26365	Channel 26640
	10MHz		1855 MHz	1882.5 MHz	1910 MHz
	TOWNIZ	RX	Channel 8090	Channel 8365	Channel 8640
			1935 MHz	1962.5 MHz	1990 MHz
		TX	Channel 26115	Channel 26365	Channel 26615
	15MHz	17	1857.5 MHz	1882.5 MHz	1907.5 MHz
	13WI1Z	RX	Channel 8115	Channel 8365	Channel 8615
		NA .	1937.5 MHz	1962.5 MHz	1987.5 MHz
		TX	Channel 26140	Channel 26365	Channel 26590
	20MHz	17	1860 MHz	1882.5 MHz	1905 MHz
	ZUIVII IZ	RX	Channel 8140	Channel 8365	Channel 8590
		IVA	1940 MHz	1962.5 MHz	1985 MHz



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Toot Mode	Bandwidth	TX / RX	RF Channel			
Test Mode	Dariuwiuiri	17/87	Low (L)	Middle (M)	High (H)	
		TX	Channel 26697	Channel 26740	Channel 26783	
	1.4MHz	17	814.7 MHz	819 MHz	823.3 MHz	
	1.4IVITZ	RX	Channel 8697	Channel 8740	Channel 8783	
		IXX	859.7 MHz	864MHz	868.3 MHz	
		TX	Channel 26705	Channel 26740	Channel 26775	
	3MHz	17	815.5 MHz	819 MHz	822.5 MHz	
		RX	Channel 8705	Channel 8740	Channel 8775	
LTE Band26			860.5 MHz	864MHz	867.5 MHz	
(814-824)		TX	Channel 26715	Channel 26740	Channel 26765	
	5MHz		816.5 MHz	819 MHz	821.5 MHz	
	SIVITZ	RX	Channel 8715	Channel 8740	Channel 8755	
		IXX	861.5 MHz	864MHz	866.5 MHz	
		TX	Channel 26740	Channel 26740	Channel 26740	
	10MHz	17	819 MHz	819 MHz	819 MHz	
	TOME	RX	Channel 8740	Channel 8740	Channel 8740	
		KΛ	864MHz	864MHz	864MHz	

Test Mode	Bandwidth	TX / RX	RF Channel			
rest iviode	Dariuwiuiri	IA/KA	Low (L)	Middle (M)	High (H)	
		TX	Channel 26797	Channel 26915	Channel 27033	
	1.4MHz	17	824.7 MHz	836.5 MHz	848.3 MHz	
	1.4101112	RX	Channel 8697	Channel 8915	Channel 9033	
		IXX	859.7 MHz	881.5 MHz	893.3 MHz	
		TX	Channel 26805	Channel 26915	Channel 27025	
	3MHz	17	825.5 MHz	836.5 MHz	847.5 MHz	
	SIVITZ	RX	Channel 8805	Channel 8915	Channel 9025	
		KA	860.5 MHz	881.5 MHz	892.5 MHz	
	5MHz	TX	Channel 26815	Channel 26915	Channel 27015	
LTE Band26			826.5 MHz	836.5 MHz	846.5 MHz	
(824-849)		RX	Channel 8815	Channel 8915	Channel 9015	
, ,			871.5 MHz	881.5 MHz	891.5 MHz	
		TX	Channel 26840	Channel 26915	Channel 26990	
	10MHz	17	829 MHz	836.5 MHz	844 MHz	
	TOWN 12	RX	Channel 8840	Channel 8915	Channel 8990	
		IXX	874 MHz	881.5 MHz	889 MHz	
		TX	Channel 26865	Channel 26915	Channel 26965	
	15MHz	17	831.5 MHz	836.5 MHz	841.5 MHz	
	TOMINE	RX	Channel 8865	Channel 8915	Channel 8965	
		11/1	876.5 MHz	881.5 MHz	886.5 MHz	



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Test Mode	Bandwidth	TX / RX	RF Channel			
Test Mode	Dariuwiuiii	IA/NA	Low (L)	Middle (M)	High (H)	
	ENAL I-	TV/DV	Channel 39675	Channel40620	Channel 41565	
	5MHz	TX/RX	2498.5 MHz	2593 MHz	2687.5 MHz	
	10MHz	TX/RX	Channel 39700	Channel40620	Channel 41540	
LTC Daniel 44			2501 MHz	2593 MHz	2685 MHz	
LTE Band 41	15MHz	TX/RX	Channel 39725	Channel40620	Channel 41515	
			2503.5 MHz	2593 MHz	2682.5 MHz	
	001411-	TV/DV	Channel 39750	Channel40620	Channel 41490	
	20MHz	TX/RX	2506 MHz	2593 MHz	2680 MHz	

Toot Mode	Donduidth	TV / DV		RF Channel	
Test Mode	e Bandwidth	TX / RX	Low (L)	Middle (M)	High (H)
		TV	Channel 131979	Channel 132322	Channel 132665
	1.4MHz	TX	1710.7 MHz	1745 MHz	1779.3 MHz
	1.4IVITZ	RX	Channel 66443	Channel 66786	Channel 67129
		KA	2110.7 MHz	2145MHz	2179.3 MHz
		TX	Channel 131987	Channel 132322	Channel 132657
	3MHz	1.	1711.5 MHz	1745 MHz	1778.5MHz
	SIVITZ	RX	Channel 66451	Channel 66786	Channel 67121
		KA	2111.5 MHz	2145MHz	2178.5MHz
		TX	Channel 131997	Channel 132322	Channel 132647
	5MHz	17	1712.5 MHz	1745 MHz	1777.5 MHz
		RX	Channel 66461	Channel 66786	Channel 67711
LTE Band 66			2112.5 MHz	2145MHz	2177.5 MHz
LTE Ballu 00		TX	Channel 132022	Channel 132322	Channel 132622
	10MHz		1715 MHz	1745 MHz	1775 MHz
	TOWN 12	RX	Channel 66486	Channel 66786	Channel 67086
			2115 MHz	2145MHz	2175 MHz
		TX	Channel 132047	Channel 132322	Channel 132597
	15MHz	17	1717.5 MHz	1745 MHz	1772.5 MHz
	1 SIVII 12	RX	Channel 66511	Channel 66786	Channel 67061
		NA.	2117.5 MHz	2145MHz	2172.5 MHz
		TX	Channel 132072	Channel 132322	Channel 132572
	20MHz	17	1720 MHz	1745 MHz	1770 MHz
	ZUIVITZ	RX	Channel 66536	Channel 66786	Channel 67036
		NΛ	2120 MHz	2145MHz	2170 MHz



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Took Mode		TV / DV		RF Channel	
Test Mode		TX/RX	Low (L)	Middle (M)	High (H)
		TX	Channel 133147	Channel 133297	Channel 133447
	5MHz	17	665.5 MHz	680.5 MHz	695.5 MHz
	SIVIFIZ	RX	Channel 68611	Channel 68761	Channel 68911
		KA	619.5 MHz	634.5 MHz	649.5 MHz
		TX	Channel 133172	Channel 133297	Channel 133422
	10MHz	1.7	668 MHz	680.5 MHz	693 MHz
		RX	Channel 68636	Channel 68761	Channel 68886
LTE Band 71			622 MHz	634.5 MHz	647 MHz
LTE Ballu / T		TX	Channel 133197	Channel 133297	Channel 133397
	15MHz		670.5 MHz	680.5 MHz	690.5 MHz
	TOIVIE	RX	Channel 68661	Channel 68761	Channel 68861
		NA.	624.5 MHz	634.5 MHz	644.5 MHz
		TX	Channel 133222	Channel 133297	Channel 133372
	20MHz	17	673 MHz	680.5 MHz	688 MHz
	ZUIVII IZ	RX	Channel 68686	Channel 68761	Channel 68836
		IVA	627 MHz	634.5 MHz	642 MHz



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4 Description of Tests

4.1 Conducted Output Power

Measurement Procedure: FCC KDB 971168 D01 V03r01

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

Remark: Reference test setup 1

4.2 Effective (Isotropic) Radiated Power of Transmitter

Measurement Procedure: FCC KDB 971168 D01 V03r01; C63.26 (2015)

Calculate power in dBm by the following formula:

ERP (dBm) = Conducted Power (dBm) + antenna gain (dBd)

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

EIRP=ERP+2.15dB

Measurement Procedure: FCC KDB 971168 D01 V03r01; ANSI/C63.26 (2015)

Below 1GHz test procedure as below:

- 1). The EUT was powered ON and placed on a 0.8m 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 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). The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
- 5). A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 2) is obtained for this set of conditions.
- 6). The output power into the substitution antenna was then measured.
- 7). Steps 5) and 6) were repeated with both antennas polarized.
- 8). Calculate power in dBm by the following formula:

ERP (dBm) = Pg(dBm) - cable loss (dB) + antenna gain (dBd)

Where:

Pg is the generator output power into the substitution antenna.

Above 1GHz test procedure as below:



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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:

EIRP(dBm) = Pg(dBm) - cable loss (dB) + antenna gain (dBi)

EIRP=ERP+2.15dB

Where:

Pg is the generator output power into the substitution antenna.

- 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.

Remark: Reference test setup 2

4.3 Occupied Bandwidth

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 4.2

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

Remark: Reference test setup 1



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Test Settings

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

4.4 Band Edge at Antenna Terminals

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

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

Remark: Reference test setup 1

Test Settings

- 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

4.5 Spurious And Harmonic Emissions at Antenna Terminal

Measurement Procedure: FCC KDB 971168 D01 V03r01



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

Remark: Reference test setup 1

Test Settings

- Start frequency was set to 30MHz and stop frequency was set to at least 10 * the fundamental frequency (separated into at least two plots per channel)
- Detector = RMS
- Trace mode = trace average for continuous emissions, max hold for pulse emissions
- Sweep time = auto couple
- The trace was allowed to stabilize
- Please see test notes below for RBW and VBW settings

4.6 Peak-Average Ratio

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.7.1

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

Remark: Reference test setup 1



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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

4.7 Field Strength of Spurious Radiation

Measurement Procedure: FCC KDB 971168 D01 V03r01

Below 1GHz test procedure as below:

- 1). The EUT was powered ON and placed on a 80cm high table in the chamber. The antenna of the transmitter was extended to its maximum length.
- 2). The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 3). Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 4). The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
- 5). A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 2) is obtained for this set of conditions.
- 6). The output power into the substitution antenna was then measured.
- 7). Steps 5) and 6) were repeated with both antennas polarized.
- 8) Calculate power in dBm by the following formula:

ERP(dBm) = Pg(dBm) - cable loss (dB) + antenna gain (dBd)

Where:

Pd is the dipole equivalent power, Pg is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to Pg [dBm] – cable loss [dB]. The calculated Pd levels are then compared to the absolute spurious emission limit of -13dBm which is equivalent to the required minimum attenuation of 43 + 10log10(Power [Watts]).

Above 1GHz test procedure as below:

1) Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber



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2) Calculate power in dBm by the following formula:

EIRP(dBm) = Pg(dBm) - cable loss (dB) + antenna gain (dBi) EIRP=ERP+2.15dB

Where:

Pg is the generator output power into the substitution antenna.

- 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

Remark: Reference test setup 3

4.8 Frequency Stability / Temperature Variation

Measurement Procedure:

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

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

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

Time Period and Procedure:

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

Remark: Reference test setup 4

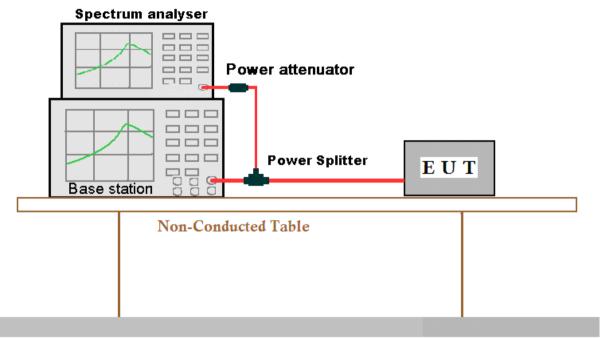


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4.9 Test Setups

4.9.1 Test Setup 1



Ground Reference Plane

4.9.2 Test Setup 2

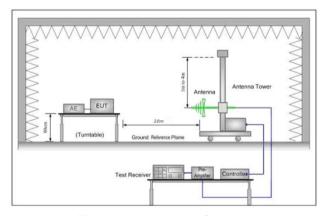


Figure 1. 30MHz to 1GHz

Figure 2. above 1GHz



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4.9.3 Test Setup 3

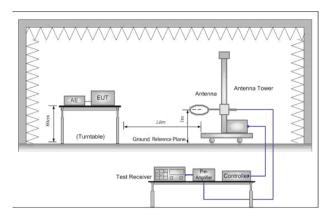


Figure 1. Below 30MHz

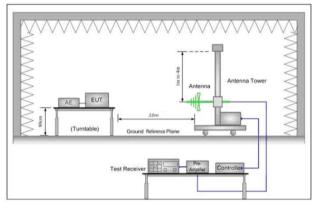


Figure 2. 30MHz to 1GHz

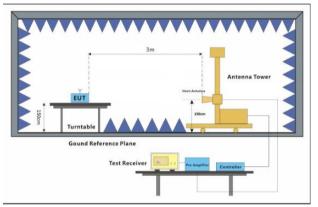


Figure 3. above 1GHz



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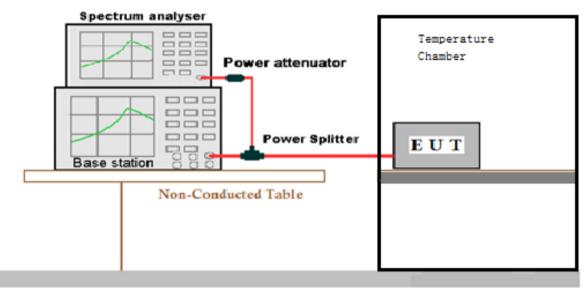
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4.9.4 Test Setup 4



Ground Reference Plane



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4.10 Test Conditions

Test Case		Test Conditions	S	
Average Power,		Test Environment	Ambient Climate & Rated Voltage	
		Test Setup	Test Setup 1	
Transmit	Total	RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)	
Output		Test Mode	UMTS/TM1;UMTS/TM2; LTE/TM1;LTE/TM2	
Power Data	Average	Test Environment	Ambient Climate & Rated Voltage	
	Power, Spectral	Test Setup	Test Setup 1	
	Density (if required)	RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)	
	, ,	Test Mode	UMTS/TM1;UMTS/TM2; LTE/TM1;LTE/TM2	
		Test Environment	Ambient Climate & Rated Voltage	
Peak-to-Ave	erage Ratio	Test Setup	Test Setup 1	
(if required)		RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)	
		Test Mode	UMTS/TM1;UMTS/TM2; LTE/TM1;LTE/TM2	
		Test Environment	Ambient Climate & Rated Voltage	
Modulation		Test Setup	Test Setup 1	
Characteris	tics	RF Channels (TX)	M (M= middle channel)	
		Test Mode	UMTS/TM1;UMTS/TM2; LTE/TM1;LTE/TM2	
		Test Environment	Ambient Climate & Rated Voltage	
	Occupied	Test Setup	Test Setup 1	
	Bandwidth	RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)	
Bandwidth		Test Mode	UMTS/TM1;UMTS/TM2; LTE/TM1;LTE/TM2	
	Emission Bandwidth	Test Environment	Ambient Climate & Rated Voltage	
		Test Setup	Test Setup 1	
(if required)		RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)	



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	Test Mode	UMTS/TM1;UMTS/TM2; LTE/TM1;LTE/TM2		
	Test Environment	Ambient Climate & Rated Voltage		
Band Edges	Test Setup	Test Setup 1		
Compliance	RF Channels (TX)	L, H (L= low channel, H= high channel)		
	Test Mode	UMTS/TM1;UMTS/TM2; LTE/TM1;LTE/TM2		
	Test Environment	Ambient Climate & Rated Voltage		
Spurious Emission at	Test Setup	Test Setup 1		
Antenna Terminals	RF Channels	L,M, H		
	(TX)	(L= low channel, M= middle channel, H= high channel)		
	Test Mode	UMTS/TM1; LTE/TM1		
	Test Environment	Ambient Climate & Rated Voltage		
	Test Setup	Test Setup 2		
Field Strength of Spurious Radiation	Test Mode	UMTS/TM1;UMTS/TM2; LTE/TM1;LTE/TM2; Remark: If applicable, the EUT conf. that has maximum power density (based on the equivalent power level) is selected.		
	RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)		
	Test	(1) -30 °C to +50 °C with step 10 °C at Rated Voltage;		
	Environment	(2) VL, VN and VH of Rated Voltage at Ambient Climate.		
Frequency Stability	Test Setup	Test Setup 4		
Trequency Stability	RF Channels (TX)	L, M, H (L= low channel, M= middle channel, H= high channel)		
	Test Mode	UMTS/TM1;UMTS/TM2; LTE/TM1;LTE/TM2		



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5 Main Test Instruments

RE in Chamber								
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date			
rest Equipment	Manufacturer	anulacturer Model No.		(yyyy-mm-dd)	(yyyy-mm-dd)			
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12			
Spectrum Analyzer (20Hz-43GHz)	Rohde & Schwarz	FSU43	SEM004-08	2019/3/2	2020/3/1			
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26			
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/413	2021/412			
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16			
Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2018/9/2	2019/9/2			
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2018/9/2	2019/9/2			
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	EMC2063	2018/10/20	2019/10/19			
Pre-amplifier (26-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019/3/2	2020/3/1			
Band filter	N/A	N/A	N/A	N/A	N/A			
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM026-01	2018/7/12	2019/7/11			
Wideband Radio CommunicationTeste	Anristu	MT8821C	6201462742	2019/4/3	2020/4/3			
Wideband Radio CommunicationTester	Rohde & Schwarz	CMW500	W005-02	2019/1/13	2020/1/12			

RF conducted test								
Tool Faciliament	Manufacturer	Model No.	Inventory No.	Cal. date	Cal.Due date			
Test Equipment	Manufacturer	woder No.	inventory No.	(yyyy-mm-dd)	(yyyy-mm-dd)			
Dual Output Mobile Communication DC Source	Agilent Technologies Inc	66311B	W009-09	2018/11/2	2019/11/1			
Signal Analyzer	Rohde & Schwarz	FSV	W005-02	2019/3/2	2020/3/1			
Coaxial Cable	SGS	N/A	SEM031-01	2018/7/12	2019/7/11			
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A			
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018/11/2	2019/11/1			
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	HTC-1	W006-17	2018/11/2	2019/11/1			
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2018/11/2	2019/11/1			
Wideband Radio CommunicationTeste	Anristu	MT8821C	6201462742	2019/3/2	2020/3/1			
Wideband Radio CommunicationTester	Rohde & Schwarz	CMW500	W005-02	2018/11/2	2019/11/1			



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				Cal. Date	Cal. Due
Test Equipment	Manufacturer	Model No.	Inventory No.	(yyyy-mm-	date (yyyy-
			•	dd)	mm-dd)
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12
Wideband Radio CommunicationTeste	Anristu	MT8821C	6201462742	2019/4/3	2020/4/3
Wideband Radio CommunicationTester	Rohde & Schwarz	CMW500	W005-02	2019/1/13	2020/1/12
EXA Signal Analyzer (10Hz-26.5GHz)	Agilent Technologies Inc	N9010A	SEM004-09	2019/3/13	2020/3/12
Spectrum Analyzer (20Hz-43GHz)	Rohde & Schwarz	FSU43	SEM004-08	2019/3/2	2020/3/1
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/4/13	2021/4/12
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16
Amplifier (0.1-1300MHz)	HP	8447D	SEM005-02	2018/9/25	2019/9/24
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2018/9/27	2019/9/26
Pre-amplifier (26-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2019/3/2	2020/3/1
Band filter	N/A	N/A	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2018/7/12	2019/7/11
Tunable Notch Filter	WAINRIGHT Instruments	N/A	N/A	N/A	N/A
WRCD1700/2000-0.2/40-10EEK	GMBH	IV/A	IN/PA	14/74	19/73
Tunable Notch Filter WRCD800/960-0.2/40-10EEK	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
HighPass Filter WHK1.2/15G-10SS	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
HighPass Filter WHKX10-2700-3000-18000-40SS	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
HighPass Filter WHKX7.0/26.5G-6SS	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
Band Reject Filter WRCG 824/849-814/859-40/8SS	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
Band Reject Filter WRCG 1850/1910-1835/1925-40/8SS	WAINRIGHT Instruments GMBH	N/A	N/A	N/A	N/A
Measurement Software	AUDIX	e3 V8.2014- 6-27	N/A	N/A	N/A



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6 Measurement Uncertainty

For a 95% confidence level (k = 2), the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

Test Item	Extended Uncertainty	Data
Transmit Output Power Data	Power [dBm]	U =±0.37 dB
Bandwidth	Magnitude [%]	U =± 0.2%
Band Edge Compliance	Disturbance Power [dBm]	U = ±2.0 dB
Spurious Emissions, Conducted	Disturbance Power [dBm]	U = ±2.0 dB
Field Strength of Spurious Radiation	ERP[dBm]/EIRP [dBm]	For 3 m Chamber:
		$U = \pm 4.5 \text{ dB } (30 \text{ MHz to 1GHz})$
		U = ±3.3 dB (above 1 GHz)
		For 10 m Chamber:
		U = ±4.5 dB (30 MHz to 1GHz)
		U = ±3.2 dB (above 1 GHz)
Frequency Stability	Frequency Accuracy [ppm]	U = ±0.24 ppm

7 Appendixes

Appendix A	Photographs of EUT Constructional Details for HR201950006
Appendix B.1	WCDMA Band II & IV & V
Appendix B.2	LTE Band 2
Appendix B.3	LTE Band 4
Appendix B.4	LTE Band 5
Appendix B.5	LTE Band 7
Appendix B.6	LTE Band 12
Appendix B.7	LTE Band 13
Appendix B.8	LTE Band 14
Appendix B.9	LTE Band 17
Appendix B.10	LTE Band 25
Appendix B.11	LTE Band 26 (814-824)
Appendix B.12	LTE Band 26 (824-849)
Appendix B.13	LTE Band 41
Appendix B.14	LTE Band 66
Appendix B.15	LTE Band 71

The End



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