

SZEMC-TRF-01 Rev. A/1 Report No.: SZCR250200064401

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TEST REPORT

Application No.: SZCR2502000644TL

Connected Solutions Group, LLC Applicant:

Address of Applicant: 8529 Meadowbridge Rd, suite 300 Mechanicsville, Va 23116 America

Manufacturer: GL Technologies (Hong Kong) Limited

Address of Manufacturer: Unit 601, Building 5W, Hong Kong Science Park, Shation, N.T., Hong Kong

DUAL-SIM LTE ROUTER EUT Description:

Model No.: CSG-m106 pro

Trade Mark: CSG

FCC ID: 2A5KA-EG120KNA

> 47 CFR Part 2 47 CFR Part 22 47 CFR Part 24

Standards: 47 CFR Part 27

47 CFR Part 90 47 CFR Part 96

Date of Receipt: 2025/02/21

Date of Test: 2025-02-28 to 2025-03-24

Date of Issue: 2025/03/24

Test Result: PASS *

Keny Xu **EMC Laboratory Manager**



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



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	Revision Record				
Version	Chapter	Date	Modifier	Remark	
01		2025/03/24		Original	

Authorized for issue by:		
	Dorjar. Huang	
	Donjon Huang/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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2 Test Summary

2.1 LTE Band 5/26(824~849 MHz) / 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	Appendix B.5&B.10&B.16	Pass
Peak-Average Ratio	§22.913(d)	Limit≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §22.917(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Reference re (FCC ID:2A: EG120KN	5KA-
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.		
Field Strength of Spurious Radiation	§2.1053, §22.917(a)	FCC: ≤ -13 dBm/100 kHz.	Appendix B.5&B.10&B.16	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d)(2) §22.355	±2.5ppm.	Reference ro (FCC ID:2A EG120KN	5KA-



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2.2 LTE Band 2 /25

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §24.232(c)	EIRP ≤ 2 W	Appendix B.1&B.8	Pass
Peak-Average Ratio	§24.232(d)	Limit≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §24.238(a)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Reference (FCC ID:2/ EG120K	A5KA-
Spurious Emission at Antenna Terminals	§2.1051, §24.238(a)	≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges.		·
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	≤ -13 dBm/1 MHz.	Appendix B.1&B.8	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §24.235	Within authorized bands of operation/frequency block.	Reference report (FCC ID:2A5KA- EG120KNA)	



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2.3 LTE Band 4 /66

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(d)(4)	EIRP ≤ 1 W	Appendix B.2&B.14	Pass
Peak-Average Ratio	§27.50(d)(5)	Limit≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §27.53(h)	≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block.	Reference r (FCC ID:2A EG120KN	5KA-
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.		·
Field Strength of Spurious Radiation	§2.1053, §27.53(h)	≤ -13 dBm/1 MHz.	Appendix B.2&B.14	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	Within authorized bands of operation/frequency block.	Reference r (FCC ID:2A EG120KN	5KA-



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t (86-755) 26012053

f (86-755) 26710594

www.sgsgroup.com.cn

t (86-755) 26012053

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2.4 LTE Band 7/41/CA 7C/ CA 41C

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §27.50(h)(2)	EIRP≤2W	Appendix B.4&B.12& B.17&B.18	Pass
Peak-Average Ratio		≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §27.53(m)(4)	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 defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz.	Reference (FCC ID:2A EG120KI	5KA-
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)	Channel Edge -25dBm/ 1 MHz 1 MHz 1 MHz 9 kHz 95 MHz XMHz 10th harmonics X=Max {6MHz, EBW}		
Field Strength of Spurious Radiation	§2.1053, §27.53(m)	Channel Edge -25dBm/ 1 MHz 1 MHz 9 kHz 95 MHz XMHz 10th harmonics X=Max {6MHz, EBW}	Appendix B.4&B.12& B.17&B.18	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	Within authorized bands of operation/frequency block.	Reference ((FCC ID:2A EG120KI	5KA-



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2.5 LTE Band 12

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	ERP≤3W.	Appendix B.5	Pass
Peak-Average Ratio		Limit≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Poforonoo ro	n ort
Band Edges Compliance	§2.1051, §27.53(g)	≤ 43+10log10(P[Watts])	Reference re (FCC ID:2A5 EG120KN	KA-
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	≤ 43+10log10(P[Watts])	EGIZUKIN	^)
Field Strength of Spurious Radiation	§2.1053, §27.53(g)	FCC: ≤ -13 dBm/100 kHz.	Appendix B.5	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	Within authorized bands of operation/frequency block.	Reference report (FCC ID:2A5KA- EG120KNA)	



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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.	Appendix B. 6	Pass
Peak-Average Ratio		Limit≤13 dB		
Bandwidth	§2.1049,	OBW: No limit. EBW: No limit.		
Band Edges Compliance	§2.1051, §27.53(c)	≤ 43+10log10(P[Watts])		
Spurious Emission at Antenna Terminals	§2.1051, §27.53(c) §27.53(f)	≤ -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.	Reference (FCC ID:2/ EG120K	45KA-
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.	Appendix B. 6	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	Within authorized bands of operation/frequency block.	Reference (FCC ID:2/ EG120K	45KA-



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2.7 LTE Band 14

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046 §90.542(a)	ERP ≤ 3 W.	Appendix B.7	Pass
Peak-Average Ratio		Limit≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		ļ
Emission Mask	§2.1051 §90.210(b)	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.	Reference (FCC ID:2/ EG120K	45KA-
Band Edges Compliance	§2.1051 §90.543(e)(2)(3)	(1) On all frequencies between 769- 775 MHz and 799-805 MHz, by a factor not less than 76 + 10 log (P) 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		



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		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. FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges. For operations in the 758-		
Spurious Emission at Antenna Terminals	§2.1051, §90.543(c) §90.543(f)	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.		
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.	Appendix B.7	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §90.213	Within authorized bands of operation/frequency block.	Reference (FCC ID:2/ EG120K	A5KA-



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2.8 LTE Band 26(814~824 MHz)

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Transmitter Conducted Power Output	§2.1046, §90.635(b)	< 100 W.	Appendix B.9	Pass
Peak-Average Ratio		Limit≤13 dB		
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		
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.	Reference report (FCC ID:2A5KA- EG120KNA)	
Spurious Emission at Antenna Terminals	§2.1051, §90.691	< 43 + 10Log10(P[Watts]) for all out-of-band emissions		
Field Strength of Spurious Radiation	§2.1053, §90.691	< 43 + 10Log10(P[Watts]) for all out-of-band emissions	Appendix B.9	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §90.213	Within authorized bands of operation/frequency block.	Reference ((FCC ID:2A EG120K)	5KA-



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2.9 LTE Band 30

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		Pass
Peak-Average Ratio		FCC: Limit≤13 dB		Pass
Bandwidth	§2.1049,	OBW: No limit. EBW: No limit.		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.		Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(a)(4)	For mobile and portable stations operating in the 2305-2315 MHz and 2350-2360 MHz bands: (i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2345 and 2324 MHz and on all frequencies between 2345 and 2324 MHz and on all frequencies between 2345 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz, and on all frequencies between 2345 and 2345 MHz, not less than 61 + 10 log (P) dB on all frequencies between 2328 MHz and on all frequencies between 2328 MHz and on all frequencies between 2327 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz; (ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305 MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies	Appendix B.11	Pass



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		1 1 0000 10000 1411 07	-
		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)	≤ -40dBm/MHz.	Pass
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	within the range of the operating frequency blocks	Pass



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2.10 LTE Band 71

Test Item	FCC Rule No.	Requirements	Test Result	Verdict	
Effective (Isotropic) Radiated Power Output Data	§2.1046 §27.50(c)(10)	ERP≤3W	Appendix B.15	Pass	
Peak-Average Ratio		Limit≤13 dB			
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Deference re	oort	
Band Edges Compliance	§2.1051, §27.53(g)	≤ 43+10log10(P[Watts])	Reference report (FCC ID:2A5KA- EG120KNA)		
Spurious Emission at Antenna Terminals	§2.1051, §27.53(g)	≤ 43+10log10(P[Watts])			
Field Strength of Spurious Radiation	§2.1053, §27.53(g) ≤ -13 dBm/1 MHz.		Appendix B.15	Pass	
Frequency Stability	§2.1055(a)(1)(b) §2.1055(d) (2) §27.54	within the authorized bands of operation.	Reference report (FCC ID:2A5KA- EG120KNA)		



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2.11 LTE Band 48

Test Item	FCC Rule No.	Requirements	Test Result	Verdict
Effective (Isotropic) Radiated Power Output Data	§2.1046, §96.41	EIRP ≤ 23dBm/10MHz		Pass
Peak-Average Ratio	§96.41	FCC: Limit≤13 dB		Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.		Pass
Band Edges Compliance	§2.1051, §96.41	for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed –13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge.		Pass
Spurious Emission at Antenna Terminals	§2.1051, §96.41	for channel and frequency assignments made by a CBSD to End User Devices, the conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. (2) Additional protection levels. Notwithstanding paragraph (e)(1) of this section, for CBSDs and End User Devices, the conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.	Appendix B.13	Pass



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

Remark:

This test report (Report No.: SZCR250200064401 issue on 2025/03/21) is based on the original test report (FCC ID:2A5KA-EG120KNA).

Review this report and original report, this report just changing the parts according to the declaration letter from client.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

As a result, in this report, the new antenna gain of LTE B30/48 is greater than the maximum allowable gain of the original project, and the power needs to be reduced to comply with regulatory requirements.so the LTE band 30 and LTE band 48 are newly tested. other band of power and the radiated spurious emissions were tested, other test data please refer to the previous report (FCC ID:2A5KA-EG120KNA).



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4 General Information

4.1 General Description of EUT

EUT Description:	DUAL-SIM LTE ROUTER	DUAL-SIM LTE ROUTER					
Model No.:	CSG-m106 pro						
Trade Mark:	CSG	CSG					
Hardware Version:	V1.0						
Software Version:	4.7.3						
Power Supply:	DC 3.7V from internal recha Adapter model: ICP20-050-	_	-	y which can be	charge	e by AC/DC adapter	
IMEI:	RF Conducted		865749060	0202104			
IIVI⊏I.	RSE		865749060	0197064			
Antenna Type:	☐ External, ☒ Integrated						
	LTE Band 2: 3.13d	dBi		LTE Band 4:		2.17dBi	
	LTE Band 5: 1.420	1.42dBi		LTE Band 7:		0.96dBi	
	LTE Band 12: 0.23d	0.23dBi		LTE Band 13:		-0.56dBi	
	LTE Band 14: -0.85dBi		LTE Band 25	:	3.25dBi		
	LTE Band 26: 1.42dBi		LTE Band 30: 2.19dBi		2.19dBi		
Antenna Gain:	LTE Band 41: 1.25dBi		LTE Band 48: 3.31dBi		3.31dBi		
	LTE Band 66: 2.24d	dBi		LTE Band 71: 0.71dBi		0.71dBi	
	LTE CA_5B: 1.420	dBi		LTE CA_7C:		0.96dBi	
	LTE CA_41C: 1.25c	dBi					
	Note:						
	The antenna gain are derived from the gain information report provided by the manufacturer.						
	9kHz ~ 30MHz		30MHz ~ 1000MHz		100	0MHz ~ 2000MHz	
	(0.3dB)		(0.6dB)			(0.8dB)	
RF Cable:	2000MHz ~ 4000MHz (1.1dB)			lz ~ 6000MHz 6000 1.8dB))MHz ~ 12750MHz (2.6dB)	
	Above 12750MHz(3.5dB)		(/		(/	
Devel							

Remark:

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4.2 Test Mode

Test Mode	Test Modes Description			
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.				

4.3 Test Environment

Environment Parameter		101 kPa Selected Values During Tests			
Relative Humidity		44-46 % RH Ambient			
Value		Temperature(°C)	Voltage(V)		
NTNV		22~23	120		
LTLV		-30	102		
LTHV		-30	138		
HTLV		50	102		
HTHV		50	138		
Remark:					
NV: Normal Voltage LV: Low		Extreme Test Voltage	HV: High Extreme Test Voltage		
NT: Normal Temperature LT: Low		Extreme Test Temperature	HT: High Extreme Test Temperature		

4.4 Description of Support Units

The EUT has been tested as an independent unit.



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4.5 Measurement Uncertainty

For a 95% confidence level (k = 2), the measurement expanded uncertainties for defined systems, in

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.41dB
2	RF power density, conducted	±1.96dB
3	Spurious emissions, conducted	±0.41dB
4	Radio Frequency	±7.10 x 10 ⁻⁸
5	Duty Cycle	±0.49%
6	Occupied Bandwidth	±0.2%
		±4.8dB (30MHz-1GHz)
7	Padiated Spurious emission test/LIE)	±4.68dB (1GHz-6GHz)
7	Radiated Spurious emission test(UE)	±4.52dB (6GHz-18GHz)
		±5.26dB (18GHz-40GHz)

Remark:

The Ulab (lab Uncertainty) is less than Ucispr/ETSI (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.





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4.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.7 Test Facility

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

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 (Member No. 1937)

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. Shenzhen EMC laboratory 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: CN1336

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006.

IC#: 4620C.





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4.8 Technical Specification

Characteristics	Description					
Radio System Type						
	Band TX		RX			
	LTE Band 2 1850 to		0 to 1910 MHz		1930 to 1990 MHz	
	LTE Band 4	1710 to 17	55 MHz	2110 to 2	2155 MHz	
	LTE Band 5	824 to 849	MHz	869 to 89	94 MHz	
	LTE Band 7	2500 to 25	70 MHz	2620 to 2	2690 MHz	
	LTE Band 12	699 to 716	MHz	729 to 74	l6 MHz	
	LTE Band 13	777 to 787	MHz	746 to 75	66 MHz	
	LTE Band 14	788 to 798	MHz	758 to 76	88 MHz	
Supported Frequency Range	LTE Band 25	1850 to 19	15MHz	1930 to 1	995 MHz	
	LTE Band 26 (814 to 824 MHz)	814 to 824	MHz	859 to 86	69 MHz	
	LTE Band 26 (824 to 849 MHz)	824 to 849 MHz		869 to 89	869 to 894 MHz	
	LTE Band 30	2305 to 2315 MHz		2350 to 2	2350 to 2360 MHz	
	LTE Band 41	2496 to 2690MHz		2496 to 2	2496 to 2690MHz	
	LTE Band 48	3550 to 3700 MHz		3550 to 3	3700 MHz	
	LTE Band 66	1710 to 1780 MHz		2110 to 2	2110 to 2200MHz	
	LTE Band 71	663 to 698 MHz		617 to 65	617 to 652 MHz	
	LTE CA_5B	824 to 849	MHz	869 to 89	869 to 894 MHz	
	LTE CA_7C	2500 to 25	70 MHz	2620 to 2	2690 MHz	
	LTE CA_41C	2496 to 269	90MHz	2496 to 2	2690MHz	
	LTE Band 2	⊠1.4 MHz	⊠3 MHz	⊠5 MHz	⊠10 MHz	
	ETE Bana 2	⊠15 MHz	⊠20 MHz			
	LTE Band 4	⊠1.4 MHz	⊠3 MHz	⊠5 MHz	⊠10 MHz	
	LTL Dana 4	⊠15 MHz	⊠20 MHz			
Supported Channel Bandwidth	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			



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	⊠ 4.4 M⊔~	⊠3 MHz	⊠5 MHz	M10 MU-
LTE Band 25	⊠1.4 MHz		ZHIVI C	⊠10 MHz
	⊠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 Ballu 20(024-049)	⊠15 MHz			
LTE Band30	⊠5 MHz	⊠10 MHz		
LTE Band41	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz
LTE Band48	⊠5 MHz	⊠10 MHz	⊠15 MHz	⊠20 MHz
LTE Band66	⊠1.4 MHz	⊠3 MHz	⊠5 MHz	⊠10 MHz
LIE Balluoo	⊠15MHz	⊠20MHz		
LTE Band71	⊠5MHz	⊠10MHz	⊠15MHz	⊠20MHz
	⊠10MHz+10MHz		⊠10MHz+5MHz	
LTE Band CA_5B	⊠5MHz+10MHz		⊠3MHz+5I	MHz
	⊠5MHz+3MHz			
	⊠10MHz+20MHz		⊠15MHz+10MHz	
LTE Band CA 70	⊠15MHz+15MHz		⊠15MHz+20MHz	
LTE Band CA_7C	⊠20MHz+10MHz		⊠20MHz+15MHz	
	⊠20MHz+20MHz			
	⊠10MHz+15MHz		⊠10MHz+20MHz	
	⊠15MHz+1	0MHz	⊠15MHz+15MHz	
LTE Band CA_41C	⊠15MHz+20MHz		⊠20MHz+15MHz	
	⊠20MHz+20MHz		⊠20MHz+5MHz	
	⊠5MHz+20MHz			
	1		I	



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4.9 Equipment List

RF conducted test								
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)			
Humidity/ Temperature Indicator	Deli	8838	SEM002-40	2024/07/24	2025/07/23			
Spectrum Analyzer	Keysight	N9030B	SEM004-30	2024/09/04	2025/09/03			
Spectrum Analyzer	Agilent	N9020A	SZ-WRG-M-018	2024/05/24	2025/05/23			
MXA Signal Analyzer	KEYSIGHT	N9010B	SEM004-27	2024/09/14	2025/09/13			
DC power supply	HYELEC	HY3005B	SZ-WRG-M-044	2024/08/21	2025/08/20			
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	SZ-WRG-M-033	2025/01/07	2026/01/06			
Wideband Radio Communication Tester	Anristu	MT8821C	SZ-WRG-M-042	2024/06/21	2025/06/20			
Radio Communication Analyzer	Keysight	UXM 5G(E7515B)	SZ-WRG-M-021	2024/05/24	2025/05/23			
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024/07/30	2025/07/29			
Signal Generator	KEYSIGHT	N5182A	SZ-WRG-M-041	2025/01/07	2026/01/06			
Test Software	TST PASS	TST PASS V2.0	N/A	NCR	NCR			



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Radiated spurious emissions							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy/mm/dd)	Cal.Due date (yyyy/mm/dd)		
MXE EMI receiver (3Hz-3.6GHz)	KEYSIGHT	N9038B	SEM004-29	2024/08/14	2025/08/13		
Signal &Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025/01/07	2026/01/06		
Pre-amplifier (30MHz-1GHz)	SGS	AMP30M1G30	SEM005-33	2025/03/04	2026/03/03		
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2025/01/07	2026/01/06		
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2025/01/07	2026/01/06		
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2025/01/07	2026/01/06		
Active Loop Antenna 9kHz-30MHz	SCHWARZBECK	FMZB 1519B	SZ-WRG-M-053	2023/12/25	2025/12/24		
TRILOG Breitband Antenne 30MHz-1GHz	SCHWARZBECK	VULB 9168	SZ-WRG-M-054	2023/12/25	2025/12/24		
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023/12/21	2025/12/20		
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023/12/25	2025/12/24		
RSE Test Software	Tonscend	JS32-RSE V4.0.0	SZ-WRG-M-058	NCR	NCR		
RE Test Software	Tonscend	JS32-RE V4.0.0	SZ-WRG-M-059	NCR	NCR		
Measurement Software	AUDIX	e3 V8.2014-6- 27	NCR	NCR	NCR		
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025/01/07	2026/01/06		
Humidity/ Temperature Indicator	Deli	8838	SEM002-46	2024/07/24	2025/07/23		
Spectrum Analyzer	Keysight	N9020A	SZ-WRG-M-002	2024/08/17	2025/08/16		
Radio Communication Tester	Anriesu	MT8821C	SZ-WRG-M-014	2024/08/19	2025/08/18		

Remark: NCR=No Calibration Requirement.



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t (86-755) 26012053

f (86-755) 26710594

www.sgsgroup.com.cn

t (86-755) 26012053

f (86-755) 26710594

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4.10Test Frequencies

Toot Made	Dondwidth	TV / DV		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
		KΛ	1930.7 MHz	1960 MHz	1989.3 MHz
			Channel 18615	Channel 18900	Channel 19185
		TX	1851.5 MHz	1880 MHz	1908.5 MHz
	3MHz	RX	Channel 615	Channel 900	Channel 1185
		KΛ	1931.5 MHz	1960 MHz	1988.5 MHz
			Channel 18625	Channel 18900	Channel 19175
	5MHz	TX	1852.5 MHz	1880 MHz	1907.5 MHz
		RX	Channel 625	Channel 900	Channel1175
LTE Band 2			1932.5 MHz	1960 MHz	1987.5 MHz
LTE Ballu Z	10MHz		Channel 18650	Channel 18900	Channel 19150
		TX	1855 MHz	1880 MHz	1905 MHz
		RX	Channel 650	Channel 900	Channel 1150
			1935 MHz	1960 MHz	1985 MHz
			Channel 18675	Channel 18900	Channel 19125
	4-141	TX	1857.5 MHz	1880 MHz	1902.5 MHz
	15MHz	RX	Channel 675	Channel 900	Channel 1125
		NΛ	1937.5 MHz	1960 MHz	1982.5 MHz
			Channel 18700	Channel 18900	Channel 19100
	001411	TX	1860 MHz	1880 MHz	1900 MHz
	20MHz	RX	Channel 700	Channel 900	Channel 1100
		IVA	1940 MHz	1960 MHz	1980 MHz



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Test Mode Ba	Dondwidth	TX / RX		RF Channel	
	Danuwium		Low (L)	Middle (M)	High (H)
			Channel 19957	Channel 20175	Channel 20393
		TX	1710.7 MHz	1732.5 MHz	1754.3 MHz
	1.4MHz 3MHz 5MHz 10MHz 15MHz	RX	Channel 1957	Channel 2175	Channel 2393
		NA	2110.7 MHz	2132.5MHz	2154.3 MHz
			Channel 19965	Channel 20175	Channel 20385
		TX	1711.5 MHz	1732.5 MHz	1753.5 MHz
	3MHz	RX	Channel 1965	Channel 2175	Channel 2385
		KA	2111.5 MHz	2132.5MHz	2153.5 MHz
			Channel 19975	Channel 20175	Channel 20375
	5MHz	TX	1712.5 MHz	1732.5 MHz	1752.5 MHz
		RX	Channel 1975	Channel 2175	Channel 2425
LTE Donal 4			2112.5 MHz	2132.5MHz	2157.5 MHz
LIE Band 4		TX	Channel 20000	Channel 20175	Channel 20350
			1715 MHz	1732.5 MHz	1750 MHz
	10MHz	RX	Channel 2000	Channel 2175	Channel 2350
		NΛ	2115 MHz	2132.5MHz	2150 MHz
			Channel 20025	Channel 20175	Channel 20325
		TX	1717.5 MHz	1732.5 MHz	1747.5 MHz
	15MHz	RX	Channel 2025	Channel 2175	Channel 2325
		100	2117.5 MHz	2132.5MHz	2147.5 MHz
			Channel 20050	Channel 20175	Channel 20300
		TX	1720 MHz	1732.5 MHz	1745 MHz
	20MHz	RX	Channel 2050	Channel 2175	Channel 2300
		INΛ	2120 MHz	2132.5MHz	2145 MHz

Test Mode	Pondwidth	Bandwidth TX / RX		RF Channel	
rest ivioue	Dariuwiuiri	IA/KA	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
		NA	869.7 MHz	881.5 MHz	893.3 MHz
			Channel 20415	Channel 20525	Channel 20635
		TX	825.5 MHz	836.5 MHz	847.5 MHz
	3MHz	RX	Channel 2415	Channel 2525	Channel 2635
LTE Day LE			870.5 MHz	881.5 MHz	892.5 MHz
LTE Band 5		TX	Channel 20425	Channel 20525	Channel 20625
	CNALL		826.5 MHz	836.5 MHz	846.5 MHz
	5MHz	DV	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	DV	Channel 2450	Channel 2525	Channel 2600
		RX	874 MHz	881.5 MHz	889 MHz



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Toot Made	Bandwidth	TV / DV		RF Channel	
Test Mode	Danuwium	TX / RX	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
		NA	2622.5 MHz	2655 MHz	2687.5 MHz
			Channel 20800	Channel 21100	Channel 21400
		TX	2505 MHz	2535 MHz	2565 MHz
	10MHz	RX	Channel 2800	Channel 3100	Channel 3400
LTC Day 17			2625 MHz	2655 MHz	2685 MHz
LTE Band 7		TX	Channel 20825	Channel 21100	Channel 21375
	451411		2507.5 MHz	2535 MHz	2562.5 MHz
	15MHz	DV	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	RX	Channel 2850	Channel 3100	Channel 3350
		NΛ	2630 MHz	2655 MHz	2680 MHz

Toot Made	Dondwidth	TV / DV		RF Channel	
Test Mode	Bandwidth	TX / RX	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
		KΛ	729.7 MHz	737.5 MHz	745.3 MHz
			Channel 23025	Channel 23095	Channel 23165
		TX	700.5 MHz	707.5 MHz	714.5 MHz
	3MHz	RX	Channel 5025	Channel 5095	Channel 5165
LTE Day 140			730.5 MHz	737.5 MHz	744.5 MHz
LTE Band 12		TX	Channel 23035	Channel 23095	Channel 23155
	514 11		701.5 MHz	707.5 MHz	713.5 MHz
	5MHz	DV	Channel 5035	Channel 5095	Channel 5155
		RX	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
		IXA	734 MHz	737.5 MHz	741 MHz



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Test Mode	Donadii i dh	dth TX / RX	RF Channel		
rest ivioue	Bandwidth	IA/KA	Low (L)	Middle (M)	High (H)
			Channel 23205	Channel 23230	Channel 23255
		TX	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
LIE Dallu 13		TX	Channel 23230	Channel 23230	Channel 23230
	10MHz		782 MHz	782 MHz	782 MHz
		RX	Channel 5230	Channel 5230	Channel 5230
			751 MHz	751 MHz	751 MHz

Tost Modo	Test Mode Bandwidth	TX / RX	RF Channel		
i est ivioue		IA/NA	Low (L)	Middle (M)	High (H)
			Channel 23305	Channel 23330	Channel 23355
		TX	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
LIE Dallu 14			Channel 23330	Channel 23330	Channel 23330
	10MHz	TX	793MHz	793 MHz	793 MHz
		DV	Channel 5330	Channel 5330	Channel 5330
		RX	763MHz	763 MHz	763 MHz



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Test Mode B	Bandwidth	TX / RX		RF Channel	
rest iviode	Danuwiuin	IA/KA	Low (L)	Middle (M)	High (H)
			Channel 26047	Channel 26365	Channel 26683
		TX	1850.7 MHz	1882.5 MHz	1914.3 MHz
	1.4MHz	RX	Channel 8047	Channel 8365	Channel 8683
		NA	1930.7 MHz	1962.5 MHz	1994.3 MHz
			Channel 26055	Channel 26365	Channel 26675
		TX	1851.5 MHz	1882.5 MHz	1913.5 MHz
	3MHz	RX	Channel 8055	Channel 8365	Channel 8675
		KA	1931.5 MHz	1962.5 MHz	1993.5 MHz
			Channel 26065	Channel 26365	Channel 26665
	5MHz	TX	1852.5 MHz	1882.5 MHz	1912.5 MHz
		RX	Channel 8065	Channel 8365	Channel 8665
LTC Dand OF			1932.5 MHz	1962.5 MHz	1992.5 MHz
LTE Band 25		TX	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
		TX	1857.5 MHz	1882.5 MHz	1907.5 MHz
	15MHz	RX	Channel 8115	Channel 8365	Channel 8615
-		100	1937.5 MHz	1962.5 MHz	1987.5 MHz
			Channel 26140	Channel 26365	Channel 26590
		TX	1860 MHz	1882.5 MHz	1905 MHz
	20MHz	RX	Channel 8140	Channel 8365	Channel 8590
		KΛ	1940 MHz	1962.5 MHz	1985 MHz



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Toot Made	Dondwidth	TX / RX		RF Channel	
Test Mode Bandwidth	Danuwium	IA/KA	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
		NA	859.7 MHz	864MHz	868.3 MHz
			Channel 26705	Channel 26740	Channel 26775
	3MHz	TX	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)		TX	Channel 26715	Channel 26740	Channel 26765
(0:: 0=:)	CANA		816.5 MHz	819 MHz	821.5 MHz
	5MHz	DV	Channel 8715	Channel 8740	Channel 8765
		RX	861.5 MHz	864MHz	866.5 MHz
			Channel 26740	Channel 26740	Channel 26740
		TX	819 MHz	819 MHz	819 MHz
	10MHz	RX	Channel 8740	Channel 8740	Channel 8740
		NΛ	864MHz	864MHz	864MHz

Toot Made	Dondwidth	TX / RX		RF Channel	
Test Mode	Bandwidth	IA/KA	Low (L)	Middle (M)	High (H)
			Channel 26797	Channel 26915	Channel 27033
		TX	824.7 MHz	836.5 MHz	848.3 MHz
	1.4MHz	RX	Channel 8797	Channel 8915	Channel 9033
		NΛ	869.7 MHz	881.5 MHz	893.3 MHz
			Channel 26805	Channel 26915	Channel 27025
		TX	825.5 MHz	836.5 MHz	847.5 MHz
	3MHz	RX	Channel 8805	Channel 8915	Channel 9025
		NΛ	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
(02:0:0)			871.5 MHz	881.5 MHz	891.5 MHz
		TX	Channel 26840	Channel 26915	Channel 26990
			829 MHz	836.5 MHz	844 MHz
	10MHz	RX	Channel 8840	Channel 8915	Channel 8990
		NA	874 MHz	881.5 MHz	889 MHz
			Channel 26865	Channel 26915	Channel 26965
		TX	831.5 MHz	836.5 MHz	841.5 MHz
	15MHz	RX	Channel 8865	Channel 8915	Channel 8965
		100	876.5 MHz	881.5 MHz	886.5 MHz



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Test Mode	Bandwidth	TX / RX	RF Channel					
rest wode	Dariuwiuiii	IA/NA	Low (L) Middle (M)					
			Channel 27685	Channel27710	Channel 27735			
	5MHz	TX	2307.5 MHz	2310MHz	2312.5 MHz			
		RX	Channel 9795	Channel 9820	Channel 9845			
LTE Band 30		KA	2352.5MHz	2355 MHz	2357.5MHz			
LIE Dallu 30			Channel 27710	Channel27710	Channel27710			
		TX	2310 MHz	2310MHz	2310MHz			
	10MHz	RX	Channel 9820	Channel 9820	Channel 9820			
		KA.	2355 MHz	2355 MHz	2355 MHz			

Test Mode	Bandwidth	TX / RX	RF Channel					
Test Mode	Dariuwiutii	IA/KA	Low (L)	Middle (M)	High (H)			
			Channel 39675	Channel40620	Channel 41565			
	5MHz	TX / RX	2498.5 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			

Test Mode	Bandwidth	TX / RX	RF Channel						
	Dariuwiuiri	1/ 5/	Low (L)	Middle (M)	High (H)				
	CNALL-	TV/DV	Channel 55265	Channel55990	Channel 56715				
	5MHz	TX/RX	3552.5 MHz	3625.0 MHz	3697.5 MHz				
	400411	TV/DV	Channel 55290	Channel55990	Channel 56690				
LTC Donal 40	10MHz	TX/RX	3555.0 MHz	3625.0 MHz	3695.0 MHz				
LTE Band 48	15MHz 20MHz	TV/DV	Channel 55315	Channel55990	Channel 56665				
		TX/RX	3557.5 MHz	3625.0 MHz	3692.5 MHz				
		TX/RX	Channel 55340	Channel55990	Channel 56640				
			3560.0 MHz	3625.0 MHz	3690.0 MHz				



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Toot Mode	Bandwidth	TX / RX	RF Channel					
Test Mode		IA/RA	Low (L)	Middle (M)	High (H)			
			Channel 131979	Channel 132322	Channel 132665			
		TX	1710.7 MHz	1745 MHz	• ,			
	1.4MHz	RX	Channel 66443	Channel 66786	Channel 67329			
		KA.	2110.7 MHz	2145MHz	Channel 132665 1779.3 MHz Channel 67329 2199.3 MHz Channel 132657 1778.5MHz Channel 67321 2198.5MHz Channel 132647 1777.5 MHz Channel 67311 2197.5 MHz Channel 132622 1775 MHz Channel 67286 2195 MHz Channel 67286 2195 MHz Channel 132597 1772.5 MHz Channel 67261 2192.5 MHz Channel 67261 2192.5 MHz Channel 132572 1770 MHz Channel 67236			
			Channel 131987	Channel 132322	Channel 132657			
		TX	1711.5 MHz	1745 MHz	1778.5MHz			
	3MHz	DV	Channel 66451	Channel 66786	Channel 67321			
		RX	2111.5 MHz	2145MHz	Channel 132665 1779.3 MHz Channel 67329 2199.3 MHz Channel 132657 1778.5MHz Channel 67321 2198.5MHz Channel 132647 1777.5 MHz Channel 67311 2197.5 MHz Channel 132622 1775 MHz Channel 67286 2195 MHz Channel 132597 1772.5 MHz Channel 67261 2192.5 MHz Channel 132572 1770 MHz			
	5MHz 10MHz		Channel 131997	Channel 132322	Channel 132647			
		TX	1712.5 MHz	1745 MHz	1777.5 MHz			
		RX	Channel 66461	Channel 66786	Channel 67311			
LTE Date 400			2112.5 MHz	2145MHz	2197.5 MHz			
LTE Band66			Channel 132022	Channel 132322	Channel 132622			
		TX	1715 MHz	1745 MHz	1775 MHz			
		RX	Channel 66486	Channel 66786	Channel 67286			
		KA	2115 MHz	2145MHz	2195 MHz			
			Channel 132047	Channel 132322	Channel 132597			
		TX	1717.5 MHz	1745 MHz	1772.5 MHz			
	15MHz	RX	Channel 66511	Channel 66786	Channel 67261			
		100	2117.5 MHz	2192.5 MHz				
			Channel 132072	Channel 132322	Channel 132572			
		TX	1720 MHz	1745 MHz	1770 MHz			
	20MHz	DV	Channel 66536	Channel 66786	Channel 67236			
		RX	2120 MHz	2145MHz	2190 MHz			

Toot Mode	Dondwidth	TV / DV	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			
		NA.	619.5 MHz	634.5 MHz	649.5 MHz			
			Channel 133172	Channel 133297	Channel 133422			
	10MHz	TX	668 MHz	680.5 MHz	693 MHz			
		RX	Channel 68636	Channel 68761	Channel 68886			
L TE D			622 MHz	634.5 MHz	647 MHz			
LTE Band71			Channel 133197	Channel 133297	Channel 133397			
		TX	670.5 MHz	680.5 MHz	690.5 MHz			
	15MHz	RX	Channel 68661	Channel 68761	Channel 68861			
		KA.	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			
		KΛ	627 MHz	634.5 MHz	642 MHz			



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Table 4.3.1.1.5A-1: Test frequencies for CA_5B

Range	CC-Combo / NRB_agg [RB]	CC1 Note1					CC2 Note1				
		BW [RB]	NuL	f _{UL} [MHz]	N _{DL}	f _{DL} [MHz]	BW [RB]	NuL	f _{UL} [MHz]	N _{DL}	f _{DL} [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:											



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Table 4.3.1.1.7A-1: Test frequencies for CA_7C

Range	CC-Combo / N _{RB_agg} [RB]	CC1 Note1					CC2 Note1				
		BW		fuL		f _{DL}	BW		fuL		f _{DL}
		[RB]	NuL	[MHz]	N _{DL}	[MHz]	[RB]	NuL	[MHz]	N _{DL}	[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
	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.							



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Table 4.3.1.2.9A-1: Test frequencies for CA_41C

Range	CC- Combo / NRB_agg [RB]	CC1 Note1			CC2 Note1		
		BW	N	ful/DL	BW [RB]	N	ful/DL [MHz]
Low	25+100	[RB] 25	N _{UL/DL} 39683	[MHz] 2499.3	100	NuL/DL 39800	2511
LOW	25.100	100	39750	2506	25	39867	2517.7
	50+75	50	39703	2501.3	75	39823	2513.3
	30.73	75	39725	2503.5	50	39845	2515.5
	50+100	50	39725	2503.5	100	39849	2515.5
	30.100	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
	75+100	100	39750	2506	75	39921	2520.9
	100+100	100	39750	2506	100	39948	2525.8
Mid	25+100	25	40528	2583.8	100	40645	2595.5
IVIIG	25.100	100	40526	2590.5	25	40045	2602.2
	50+75	50	40595	2585.9	75	40669	2597.9
	30+73	75			50		
	50+100	50	40571 40526	2588.1 2583.6	100	40691 40670	2600.1 2598.0
		100	40526	2588.1	50	40670	2602.5
	75+75	75	40571	2585.5	75	40715	2602.5
	75+100	75			100		
	75+100	100	40523 40546	2583.3	75	40694 40717	2600.4 2602.7
	100+100	100		2585.6	100		
High	25+100	25	40521 41373	2583.1 2668.3	100	40719 41490	2602.9 2680
High	25+100	100	41440	2675	25	41557	2686.7
	50+75	50	41395	2670.5	75	41515	2682.5
	30173	75	41417	2672.7	50	41537	2684.7
	50+100	50	41346	2665.6	100	41490	2680
		100			50		
	75+75	75	41391 41365	2670.1 2667.5	75	41535 41515	2684.5 2682.5
	75+100	75	41319	2662.9	100	41490	2680
		100			75		
	100+100	100	41341 41292	2665.1 2660.2	100	41512 41490	2682.2 2680
Note 1:			equency order.	2000.2	100	41490	2000

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5 **Description of Tests**

5.1 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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5.2 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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5.3 EIRP Power Density

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.3

Test Settings

- 1. Set instrument center frequency to OBW center frequency.
- 2. Set span to at least 1.5 times the OBW.
- 3. Set the RBW to the specified reference bandwidth (often 1 MHz).
- 4. Set VBW ≥ 3 × RBW.
- 5. Detector = RMS (power averaging).
- 6. Ensure that the number of measurement points in the sweep ≥ 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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5.4 Occupied Bandwidth

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

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

Remark: Reference test setup 1

Test Settings

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



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5.5 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

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



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5.6 Spurious And Harmonic Emissions at Antenna Terminal

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

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

Remark: Reference test setup 1

Test Settings

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



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5.7 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

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



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

Above 1GHz test procedure as below:

- 1) Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber
- 2) Calculate power in dBm by the following formula:

E (dBμV/m) = Measured amplitude level (dBμV) + (Cable Loss (dB) + Antenna Factor (dB/m) – AMP(dB)) EIRP (dBm) = E (dB μ 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 Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

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

Level = Reading Level + AF + Factor -95.26

Margin = Limit - Level

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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5.9 Frequency Stability / Temperature Variation

Measurement Procedure:

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

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

Specification – The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 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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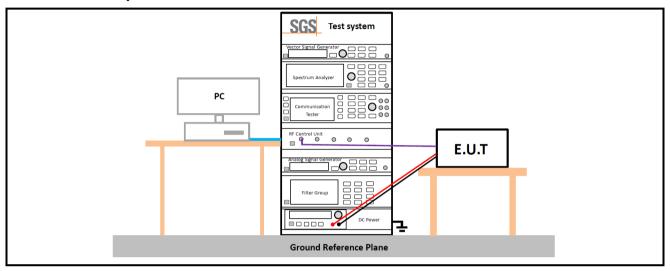
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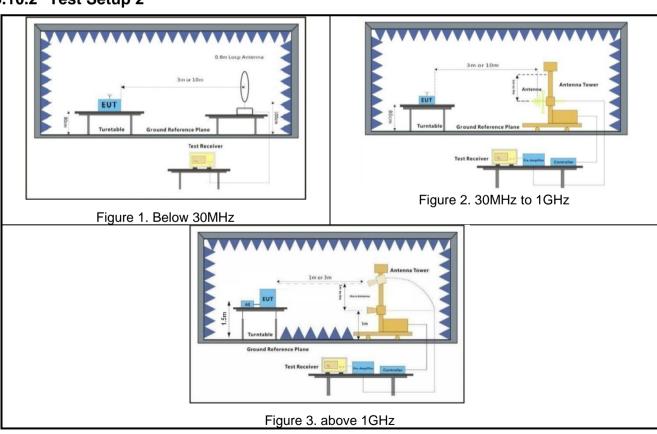
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5.10Test Setups

5.10.1 Test Setup 1



5.10.2 Test Setup 2





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| No. | Notissipp, Nr-10, Mindle Section, Science a learninougy Fall, Natissian Ursund, Stiencien, Guangoong, Gillia 518057 (66-75 | 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-75

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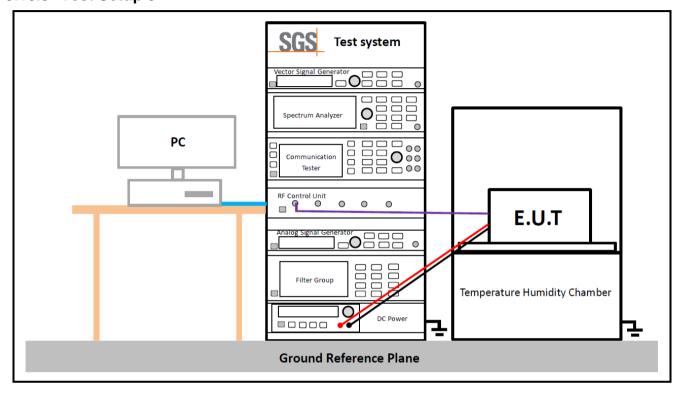


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5.10.3 Test Setup 3





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5.11Test 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	LTE/TM1;LTE/TM2;					
	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	LTE/TM1;LTE/TM2;					
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	LTE/TM1;LTE/TM2;					
	Bandwidth - Emission Bandwidth					
Test Case	Test Conditions					
	Ambient Climate & Rated Voltage					
Test Environment	Ambient diffiale & Nated Voltage					
Test Environment Test Setup	Test Setup 1					
	7					
Test Setup	Test Setup 1					
Test Setup RF Channels (TX)	Test Setup 1 L, M, H (L= low channel, M= middle channel, H= high channel)					
Test Setup RF Channels (TX)	Test Setup 1 L, M, H (L= low channel, M= middle channel, H= high channel) LTE/TM1;LTE/TM2;					
Test Setup RF Channels (TX) Test Mode	Test Setup 1 L, M, H (L= low channel, M= middle channel, H= high channel) LTE/TM1;LTE/TM2; Band Edges Compliance					
Test Setup RF Channels (TX) Test Mode Test Case	Test Setup 1 L, M, H (L= low channel, M= middle channel, H= high channel) LTE/TM1;LTE/TM2; Band Edges Compliance Test Conditions					



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Test Mode	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	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	LTE/TM1; Remark: All bandwidth and modulation of LTE have been pre tested, and only the worst results are reflected in the report.					
Frequency Stability						
Test Case	Test Conditions					
Test Environment	(1) -30 °C to +50 °C with step 10 °C at Rated Voltage (2) VL, VN and VH of Rated Voltage at Ambient Climate.					
Test Setup	Test Setup 3					
RF Channels (TX)	M (M= middle channel)					
Test Mode	LTE/TM1 The report only show the bandwidth with the worst case.					



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6 Appendixes

SZCR2502000644 Appendix	Setup Photo
Appendix B.1	LTE Band 2
Appendix B.2	LTE Band 4
Appendix B.3	LTE Band 5
Appendix B.4	LTE Band 7
Appendix B.5	LTE Band 12
Appendix B.6	LTE Band 13
Appendix B.7	LTE Band 14
Appendix B.8	LTE Band 25
Appendix B.9	LTE Band 26(814-824)
Appendix B.10	LTE Band 26(824-849)
Appendix B.11	LTE Band 30
Appendix B.12	LTE Band 41
Appendix B.13	LTE Band 48
Appendix B.14	LTE Band 66
Appendix B.15	LTE Band 71
Appendix B.16	LTE CA_5B
Appendix B.17	LTE CA_7C
Appendix B.18	LTE CA_41C

---End of Report---



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