



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

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251100475507

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TEST REPORT

Application No.: SZCR2511004755AT
Applicant: Fujian LANDI Commercial Equipment Co., Ltd.
Address of Applicant: Building 17, Section A, Software Park No.89 Software Road, Gulou District, Fuzhou Municipality, Fujian Province, China

Equipment Under Test (EUT):

EUT Name: Portable Data Terminal
Model No.: P20
Trade Mark: Landi
FCC ID: 2AG6N-P20
Standard(s) : 47 CFR Part 2
47 CFR Part 22
47 CFR Part 24
47 CFR Part 27
47 CFR Part 90

Date of Receipt: 2025-11-03
Date of Test: 2025-11-11 to 2025-11-17
Date of Issue: 2025-11-26

Test Result:	Pass
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* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu

Keny Xu
EMC Laboratory Manager



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Shenzhen Branch EMC Laboratory

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-11-26		Original

Authorized for issue by:				
		Calvin Weng		
		Calvin Weng/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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2 Test Summary

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Output Power Data	§2.1046 §22.913 §24.232 §27.50(b) §27.50(c) §27.50(d) §27.50(h) §90.542(a) §90.635	ERP≤ 7W(LTE Band 5, 26b) EIRP≤ 2W(LTE Band 2, 25) ERP≤ 3W(LTE Band 13) ERP≤ 3W(LTE Band 12,17,71) EIRP≤ 1W(LTE Band 4, 66) EIRP≤ 2W(LTE Band 7,41) ERP≤ 100W(LTE Band 26a) ERP≤ 3W(LTE Band 14)	PASS
Peak-Average Ratio	§22.913 §24.232 §27.50(a) §27.50(d)	≤13dB	PASS
Bandwidth	§2.1049(h)	OBW: No limit EBW: No limit	PASS
Band Edge Compliance	§2.1051 §22.917 §24.238 §27.50(c) §27.50(g) §27.50(h) §27.50(m) §90.543(e) §90.691	≤ -13dBm (LTE Band5, 26b) ≤ -13dBm (LTE Band2, 25) Refer to clause 6.4 for LTE Band13 ≤ -13dBm (LTE Band12,17,71) ≤ -13dBm (LTE Band4,66) Refer to clause 6.4 for LTE Band7,41 Refer to clause 6.4 for LTE Band14 Refer to clause 6.4 for LTE Band26a	PASS
Spurious emissions at antenna terminals	§2.1051 §22.917 §24.238 §27.50(c) §27.50(g) §27.50(h) §27.50(m) §90.543(e) §90.691	≤ -13dBm (LTE Band5, 26b) ≤ -13dBm (LTE Band2, 25) Refer to clause 6.5 for LTE Band13 ≤ -13dBm (LTE Band12,17,71) ≤ -13dBm (LTE Band4,66) Refer to clause 6.5 for LTE Band7,41 Refer to clause 6.5 for LTE Band14 Refer to clause 6.5 for LTE Band26a	PASS
Field strength of spurious radiation	§2.1051 §22.917 §24.238 §27.50(c) §27.50(g) §27.50(h) §27.50(m) §90.543(e) §90.691	≤ -13dBm (LTE Band5, 26b) ≤ -13dBm (LTE Band2, 25) Refer to clause 6.6 for LTE Band13 ≤ -13dBm (LTE Band12,17,71) ≤ -13dBm (LTE Band4,66) Refer to clause 6.6 for LTE Band7,41 Refer to clause 6.6 for LTE Band14 Refer to clause 6.6 for LTE Band26a	PASS





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Frequency stability	§2.1055 §22.355 §24.235 §27.54 §90.213	≤ ±2.5ppm.	PASS
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4 General Information

4.1 Details of E.U.T.

Power supply:	Battery1:DC7.2V by li-ion battery(2500mAh) M/N:LD18650M Manufacturer:Xinyu Ganfeng Electronic Co.,Ltd. Battery 2:DC7.2V by li-ion battery(3250mAh) M/N:LD18650M Manufacturer:Xinyu Ganfeng Electronic Co.,Ltd. Recharged input: DC5V/2A Adapter 1 M/N:TPA-418G050200UU01 Input: AC100-240V, 50/60Hz, 0.3A Output: DC5V/2A Manufacturer:Shenzhen TianYin Electronics Ltd. Adapter 2 M/N:P24C050400 US Input: AC100-240V, 50/60Hz, 0.6A Output: DC5V/4A Manufacturer:Something High Electric (Xiamen)Company Inc.
Cable(s):	USB Cable:1.5m unshielded cable without ferrite core DC cable:1.5m unshielded cable with ferrite core
Sample Type:	Portable production
LTE Operation Frequency Band:	LTE B2/4/5/7/12/13/14/17/25/26/41/66/71
Modulation Type:	QPSK, 16QAM
LTE Power Class:	Level 3
Antenna Type:	PIFA Antenna
Antenna Gain:	LTE band 2: 2.23dBi, band 4: 0.85dBi, band 5: 0.86dBi, band 7: 2.33dBi, band 12: 0.9dBi, band 13: 1.15dBi, band 14: 1.12dBi, band 17: 0.9dBi, band 25: 2.23dBi, band 26: 0.86dBi, band 41: 3.87dBi, band 66: 0.85dBi, band 71: 0.37dBi

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4.2 Test Frequency

Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 2	1.4	1850.7	1880	1909.3
	3	1851.5	1880	1908.5
	5	1852.5	1880	1907.5
	10	1855.0	1880	1905.0
	15	1857.5	1880	1902.5
	20	1860.0	1880	1900.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 4	1.4	1710.7	1732.5	1754.3
	3	1711.5	1732.5	1751.5
	5	1712.5	1732.5	1752.5
	10	1715.0	1732.5	1750.0
	15	1717.5	1732.5	1747.5
	20	1720.0	1732.5	1745.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 5	1.4	824.7	836.5	848.3
	3	825.5	836.5	847.5
	5	826.5	836.5	846.5
	10	829.0	836.5	844.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 7	5	2502.5	2535.0	2567.5
	10	2505.0	2535.0	2565.0
	15	2507.5	2535.0	2562.5
	20	2510.0	2535.0	2560.0



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Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 12	1.4	699.7	707.5	715.3
	3	700.5	707.5	714.5
	5	701.5	707.5	713.5
	10	704.0	707.5	711.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 13	5	779.5	782.0	784.5
	10	/	782.0	/
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 14	5	790.5	793.0	795.5
	10	/	793.0	/
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 17	5	706.5	710.0	713.5
	10	709.0	710.0	711.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 25	1.4	1850.7	1882.5	1914.3
	3	1851.5	1882.5	1913.5
	5	1852.5	1882.5	1912.5
	10	1855.0	1882.5	1910.0
	15	1857.5	1882.5	1907.5
	20	1860.0	1882.5	1905.0



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Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 26a	1.4	814.7	819.0	823.3
	3	815.5	819.0	822.5
	5	816.5	819.0	821.5
	10	/	819.0	/
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 26b	1.4	824.7	836.5	848.3
	3	825.5	836.5	847.5
	5	826.5	836.5	846.5
	10	829.0	836.5	844.0
	15	831.5	836.5	841.5
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE TDD Band 41	5	2502.5	2595.0	2687.5
	10	2505.0	2595.0	2685.0
	15	2507.5	2595.0	2682.5
	20	2510.0	2595.0	2680.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 66	1.4	1710.7	1745.0	1779.3
	3	1711.5	1745.0	1778.5
	5	1712.5	1745.0	1777.5
	10	1715.0	1745.0	1775.0
	15	1717.5	1745.0	1772.5
	20	1720.0	1745.0	1770.0



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Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
LTE FDD Band 71	5	665.5	680.5	695.5
	10	668.0	680.5	693.0
	15	670.5	680.5	690.5
	20	673.0	680.5	688.0

4.3 Test Environment

Environment Parameter	Selected Values During Tests	
Temperature:	TL	-30°C
	TN	+20°C
	TH	+50°C
Voltage:	VL	6.6 Vdc
	VN	7.2 Vdc
	VH	8.4 Vdc

NOTE: VL= lower extreme test voltage
 VN= nominal voltage
 VH= upper extreme test voltage
 TL= lower extreme test temperature
 TN= normal temperature
 TH= upper extreme test temperature

4.4 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--



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4.5 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 5.4 \times 10^{-8}$
2	Duty cycle	$\pm 0.3\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF conducted power	$\pm 0.8\text{dB}$
5	RF power density	$\pm 0.4\text{dB}$
6	Conducted Spurious emissions	$\pm 2.7\text{dB}$
7	Radiated Spurious emission test	$\pm 3.1\text{dB}$ (Below 1GHz)
		$\pm 4.4\text{dB}$ (Above 1GHz)
8	Temperature test	$\pm 1^\circ\text{C}$
9	Humidity test	$\pm 3\%$
10	Supply voltages	$\pm 1.5\%$
11	Time	$\pm 3\%$



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4.6 Test Location

All tests were performed at:

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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.

4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None



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5 Equipment List

RF conducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
Programmable DC Source	Chroma	62024P-80-60	SEM011-09	2025-03-06	2026-03-05
MXA Signal Analyzer	KEYSIGHT	N9020B	SEM004-24	2025-03-03	2026-03-02
Measurement Software	TST	TST PASS V2.0	N/A	N/A	N/A
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2025-03-03	2026-03-02
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-14	2025-03-03	2026-03-02
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2025-02-26	2026-02-25
Power Sensor	KEYSIGHT	U2021XA	SEM009-15	2025-03-05	2026-03-04

Radiated spurious emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
MXE EMI receiver(3Hz-3.6GHz)	KEYSIGHT	N9038B	SEM004-29	2025/7/25	2026/7/24
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2025/1/7	2026/1/6
Pre-amplifier(30MHz-1GHz)	SGS	AMP30M1G30	SEM005-33	2025/3/4	2026/3/3
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2025/1/7	2026/1/6
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2025/1/7	2026/1/6
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2025/1/8	2026/1/7
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



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SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023/12/25	2025/12/24
Measurement Software	AUDIX	e3 V8.2014-6-27	NCR	NCR	NCR
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2025/1/6	2028/1/5
Humidity/ Temperature Indicator	Deli	8838	SEM002-46	2025/8/5	2026/8/4
Radio Communication Tester	Anritsu	MT8821C	SZ-WRG-M-014	2025/8/14	2026/8/13

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity- Temperature Indicator	deli	8838	SEM002-32	2025-07-23	2026-07-22
Humidity- Temperature Indicator	deli	8838	SEM002-33	2025-07-23	2026-07-22
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03	2026-03-02



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6 Radio Spectrum Matter Test Results

6.1 Effective (Isotropic) Radiated Output Power Data

Test Requirement: §2.1046, §22.913, §24.232, §27.50(b), §27.50(c), §27.50(d), §27.50(h), §90.542(a), §90.635

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit:
 $ERP \leq 7W$ (LTE Band 5, 26b)
 $EIRP \leq 2W$ (LTE Band 2, 25)
 $ERP \leq 3W$ (LTE Band 13)
 $ERP \leq 3W$ (LTE Band 12, 17, 71)
 $EIRP \leq 1W$ (LTE Band 4, 66)
 $EIRP \leq 2W$ (LTE Band 7, 41)
 $ERP \leq 3W$ (LTE Band 14)
 $ERP \leq 100W$ (LTE Band 26a)

Test Engineer: Xing Guo

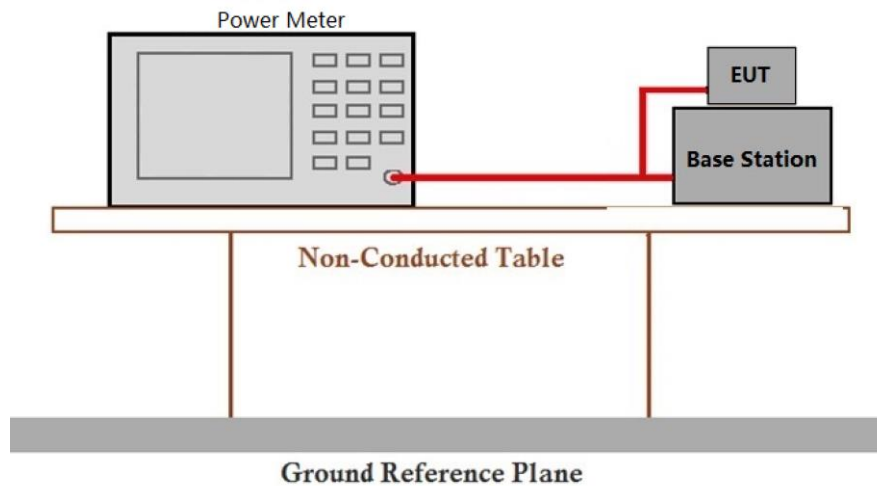
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20.8 °C Humidity: 43.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode_Keep the EUT in transmitting mode

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

Please refer to Appendix for LTE test data.

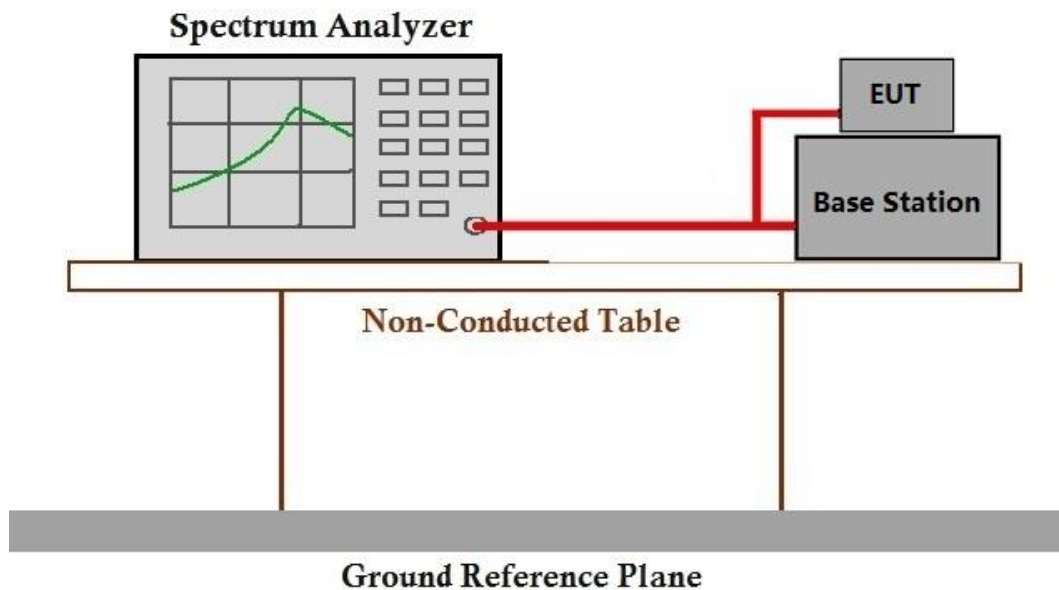
6.2 Peak-Average Ratio

Test Requirement: §22.913, §24.232, §27.50(a), §27.50(d)
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: ≤13dB
 Test Engineer: Xing Guo

6.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 20.8 °C Humidity: 43.5 % RH Atmospheric Pressure: 1020 mbar
 Test mode 32: TX mode_Keep the EUT in transmitting mode

6.2.2 Test Setup Diagram



6.2.3 Measurement Data

Please refer to Appendix for LTE test data.

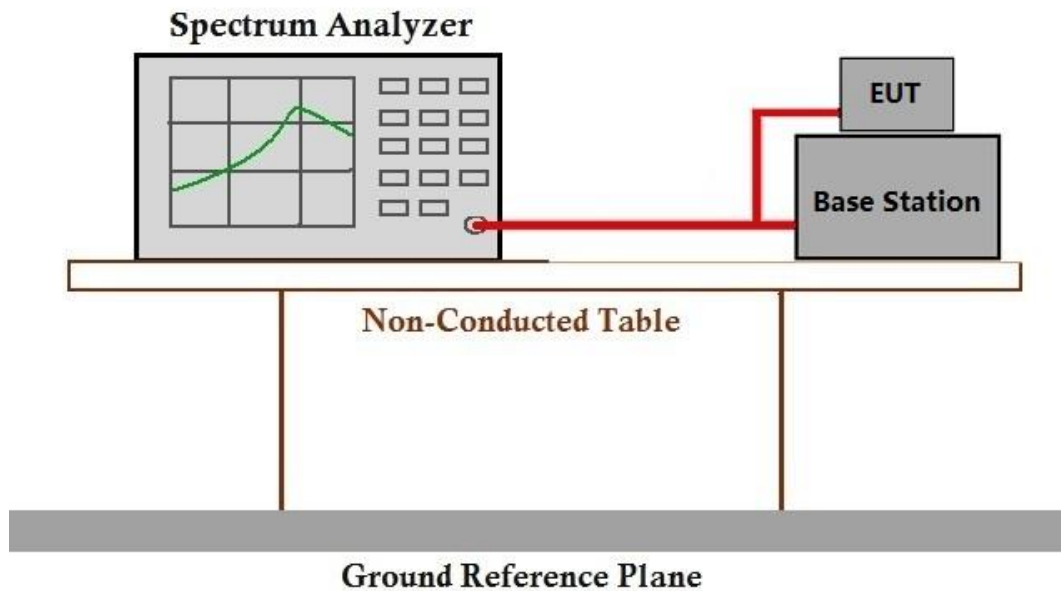
6.3 Bandwidth

Test Requirement: S2.1049(h)
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: OBW: No limit
 EBW: No limit
 Test Engineer: Xing Guo

6.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 20.8 °C Humidity: 43.5 % RH Atmospheric Pressure: 1020 mbar
 Test mode 32: TX mode_Keep the EUT in transmitting mode

6.3.2 Test Setup Diagram



6.3.3 Measurement Data

Please refer to Appendix for LTE test data.

6.4 Band Edge Compliance

Test Requirement: §2.1051, §22.917, §24.238, §27.50(c), §27.50(g), §27.50(h), §27.50(m), §90.543(e), §90.691

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: ≤ -13dBm (**LTE Band2,4,5,12,17,25,26b,66,71**)

For **Band7,41**:

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 than 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. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

For **band 13**:

- (1) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (2) 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 **Band 14**:

On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

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 (-40dBm/MHz) equivalent isotropically radiated power (EIRP) for wideband signals.

For **Band26a**:

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 + 10 Log10(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.

Test Engineer: Xing Guo

6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 20.8 °C Humidity: 43.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode_Keep the EUT in transmitting mode



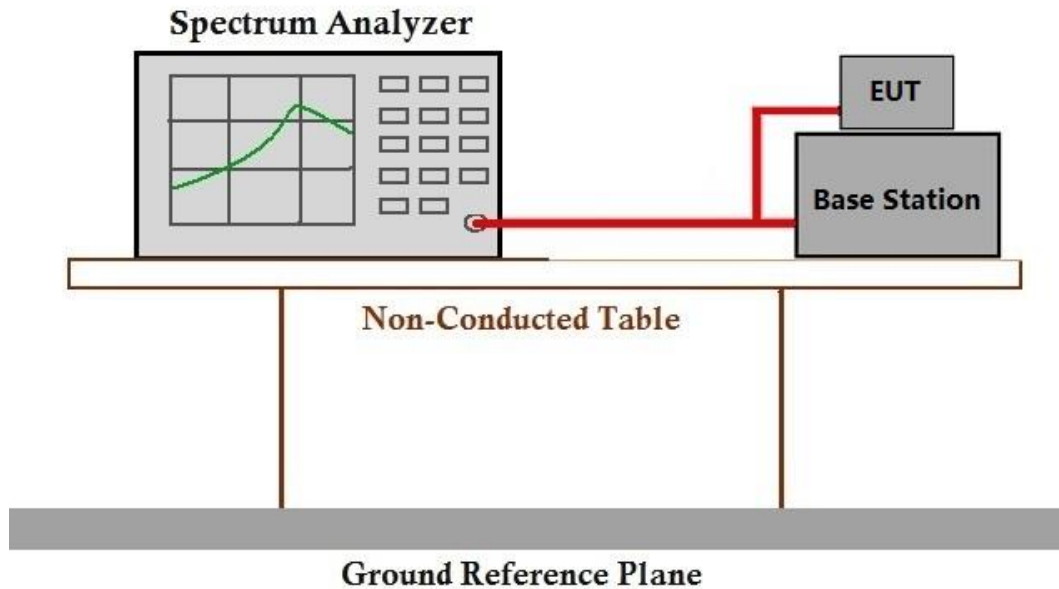
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6.4.2 Test Setup Diagram



6.4.3 Measurement Data

Please refer to Appendix for LTE test data.

6.5 Spurious emissions at antenna terminals

Test Requirement: §2.1051, §22.917, §24.238, §27.50(c), §27.50(g), §27.50(h), §27.50(m), §90.543(e), §90.691

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: ≤ -13dBm (**LTE Band2,4,5,12,17,25,26b,66,71**)

For **Band7,41**:

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 than 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. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

For **band 13**:

- (1) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (2) 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 **Band 14**:

On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

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 (-40dBm/MHz) equivalent isotropically radiated power (EIRP) for wideband signals.

For **Band26a**:

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 + 10 Log10(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.

Test Engineer: Xing Guo

6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 20.8 °C Humidity: 43.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode_Keep the EUT in transmitting mode



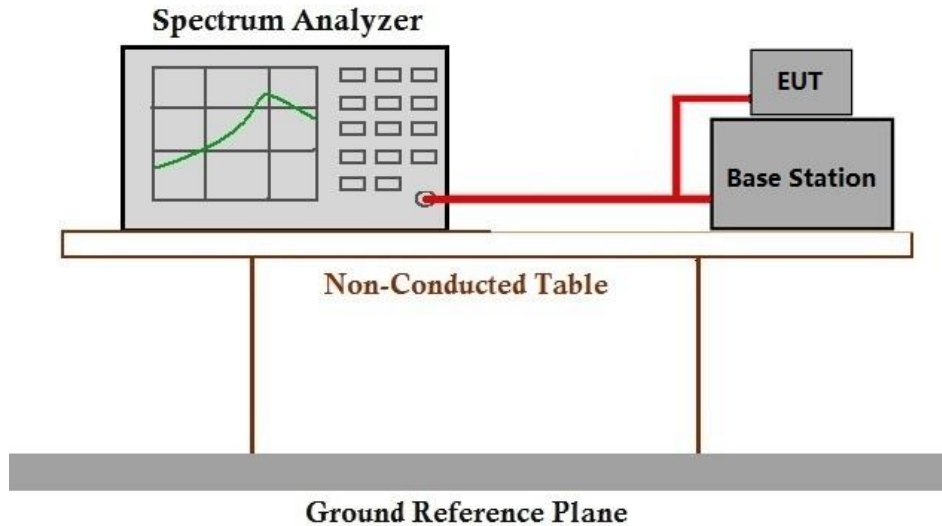
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6.5.2 Test Setup Diagram



6.5.3 Measurement Data

Please refer to Appendix for LTE test data.

6.6 Field strength of spurious radiation

Test Requirement: §2.1051, §22.917, §24.238, §27.50(c), §27.50(g), §27.50(h), §27.50(m), §90.543(e), §90.691

Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01

Limit: $\leq -13\text{dBm}$ (**LTE Band2,4,5,12,17,25,26b,66,71**)

For **Band7,41**:

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 than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

For **band 13**:

- (1) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (2) 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 **Band 14**:

On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log(P)$ dB.

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 (-40 dBm/MHz) equivalent isotropically radiated power (EIRP) for wideband signals.

For **Band26a**:

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 $116 \text{ Log}_{10}(f/6.1)$ decibels or $50 + 10 \text{ Log}_{10}(P)$ 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.

6.6.1 E.U.T. Operation

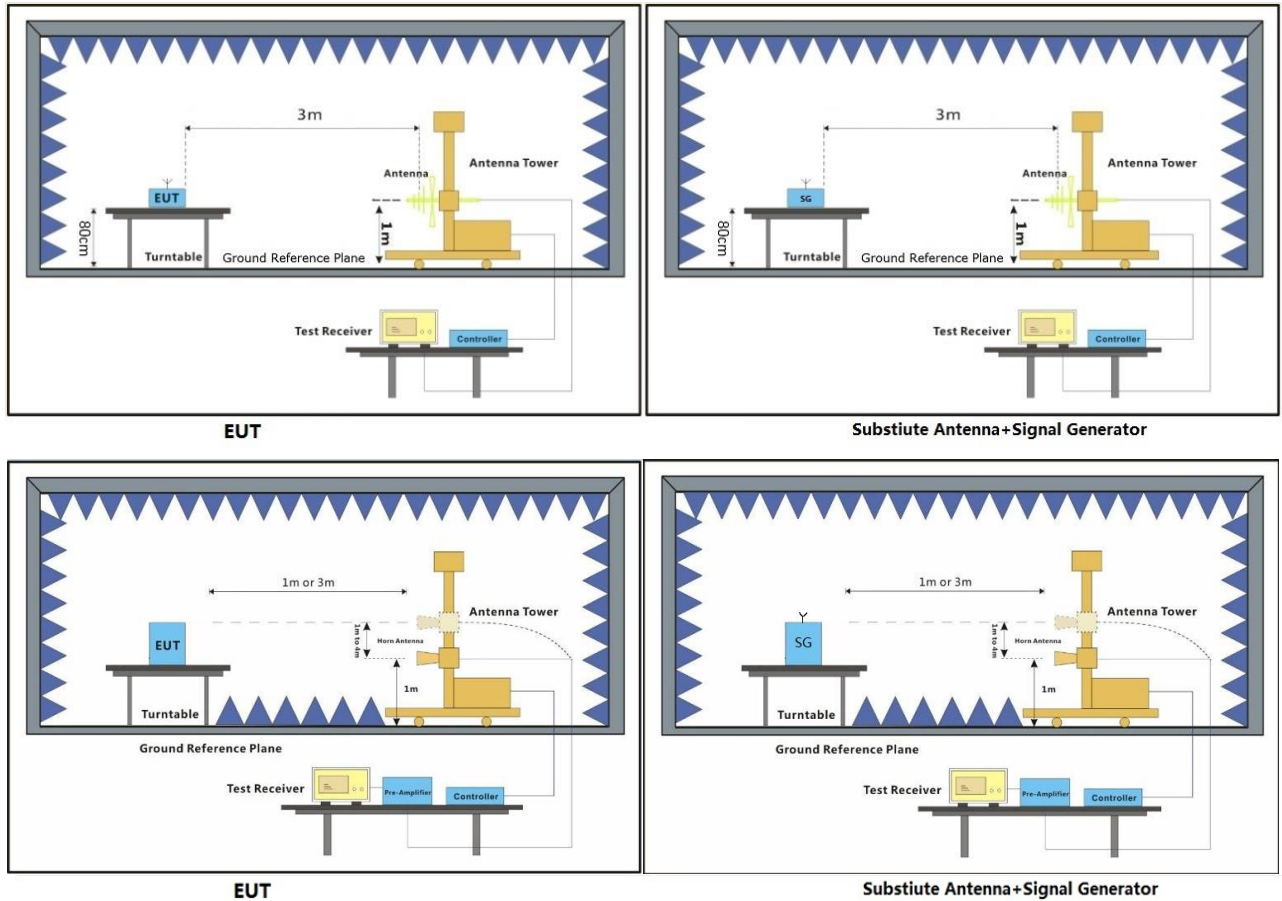
Operating Environment:

Temperature: 21.5 °C Humidity: 49.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode_Keep the EUT in transmitting mode



6.6.2 Test Setup Diagram



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

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6.6.3 Measurement Procedure and Data

Test Procedure:

- (1) On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7) The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11) The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14) The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15) The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- (16) The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- (17) The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.



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Shenzhen Branch (Shenzhen EMC Laboratory)

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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 (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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LTE Band 2-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3702.0	-62.28	-13	-49.28	-66.54	4.18	8.44	Horizontal	Pass
5553.0	-62.06	-13	-49.06	-67.13	5.38	10.45	Horizontal	Pass
7404.0	-61.82	-13	-48.82	-67.82	5.62	11.62	Horizontal	Pass
3702.0	-62.38	-13	-49.38	-66.64	4.18	8.44	Vertical	Pass
5553.0	-60.9	-13	-47.9	-65.97	5.38	10.45	Vertical	Pass
7404.0	-62.1	-13	-49.1	-68.1	5.62	11.62	Vertical	Pass

LTE Band 2-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3742.0	-66.93	-13	-53.93	-71.25	4.17	8.49	Horizontal	Pass
5613.0	-62.7	-13	-49.7	-67.79	5.36	10.45	Horizontal	Pass
7484.0	-61.31	-13	-48.31	-67.4	5.63	11.72	Horizontal	Pass
3742.0	-66.85	-13	-53.85	-71.17	4.17	8.49	Vertical	Pass
5613.0	-62.32	-13	-49.32	-67.41	5.36	10.45	Vertical	Pass
7484.0	-61.37	-13	-48.37	-67.46	5.63	11.72	Vertical	Pass

LTE Band 2-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3782.0	-67.05	-13	-54.05	-71.44	4.16	8.55	Horizontal	Pass
5673.0	-62.62	-13	-49.62	-67.74	5.33	10.45	Horizontal	Pass
7564.0	-60.79	-13	-47.79	-66.98	5.63	11.82	Horizontal	Pass
3782.0	-66.53	-13	-53.53	-70.92	4.16	8.55	Vertical	Pass
5673.0	-62.32	-13	-49.32	-67.44	5.33	10.45	Vertical	Pass
7564.0	-60.5	-13	-47.5	-66.69	5.63	11.82	Vertical	Pass

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LTE Band 4-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3422.0	-57.35	-13	-44.35	-61.23	4.1	7.98	Horizontal	Pass
5133.0	-62.71	-13	-49.71	-67.7	5.23	10.22	Horizontal	Pass
6844.0	-61.58	-13	-48.58	-66.97	5.54	10.93	Horizontal	Pass
3422.0	-56.8	-13	-43.8	-60.68	4.1	7.98	Vertical	Pass
5133.0	-61.83	-13	-48.83	-66.82	5.23	10.22	Vertical	Pass
6844.0	-61.72	-13	-48.72	-67.11	5.54	10.93	Vertical	Pass

LTE Band 4-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3447.0	-55.36	-13	-42.36	-59.26	4.14	8.04	Horizontal	Pass
5170.5	-60.66	-13	-47.66	-65.66	5.25	10.25	Horizontal	Pass
6894.0	-62.27	-13	-49.27	-67.71	5.55	10.99	Horizontal	Pass
3447.0	-55.8	-13	-42.8	-59.7	4.14	8.04	Vertical	Pass
5170.5	-60.41	-13	-47.41	-65.41	5.25	10.25	Vertical	Pass
6894.0	-62.24	-13	-49.24	-67.68	5.55	10.99	Vertical	Pass

LTE Band 4-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3472.0	-56.38	-13	-43.38	-60.3	4.18	8.1	Horizontal	Pass
5208.0	-59.72	-13	-46.72	-64.72	5.27	10.27	Horizontal	Pass
6944.0	-62.18	-13	-49.18	-67.68	5.56	11.06	Horizontal	Pass
3472.0	-57.07	-13	-44.07	-60.99	4.18	8.1	Vertical	Pass
5208.0	-58.57	-13	-45.57	-63.57	5.27	10.27	Vertical	Pass
6944.0	-62.1	-13	-49.1	-67.6	5.56	11.06	Vertical	Pass

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LTE Band 5-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1649.0	-41.36	-13	-28.36	-43.55	3.31	5.5	Horizontal	Pass
2473.5	-50.06	-13	-37.06	-52.39	3.43	5.76	Horizontal	Pass
3298.0	-60.63	-13	-47.63	-64.38	3.91	7.66	Horizontal	Pass
1649.0	-43.86	-13	-30.86	-46.05	3.31	5.5	Vertical	Pass
2473.5	-51.1	-13	-38.1	-53.43	3.43	5.76	Vertical	Pass
3298.0	-59.85	-13	-46.85	-63.6	3.91	7.66	Vertical	Pass

LTE Band 5-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1664.0	-44.01	-13	-31.01	-46.17	3.31	5.47	Horizontal	Pass
2496.0	-50.75	-13	-37.75	-53.12	3.44	5.81	Horizontal	Pass
3328.0	-60.24	-13	-47.24	-64.02	3.96	7.74	Horizontal	Pass
1664.0	-44.7	-13	-31.7	-46.86	3.31	5.47	Vertical	Pass
2496.0	-51.01	-13	-38.01	-53.38	3.44	5.81	Vertical	Pass
3328.0	-59.57	-13	-46.57	-63.35	3.96	7.74	Vertical	Pass

LTE Band 5-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1679.0	-45.16	-13	-32.16	-47.28	3.31	5.43	Horizontal	Pass
2518.5	-51.14	-13	-38.14	-53.56	3.44	5.86	Horizontal	Pass
3358.0	-58.3	-13	-45.3	-62.12	4.0	7.82	Horizontal	Pass
1679.0	-45.24	-13	-32.24	-47.36	3.31	5.43	Vertical	Pass
2518.5	-52.94	-13	-39.94	-55.36	3.44	5.86	Vertical	Pass
3358.0	-60.34	-13	-47.34	-64.16	4.0	7.82	Vertical	Pass

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LTE Band 7-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5002.0	-54.62	-25	-29.62	-59.59	5.17	10.14	Horizontal	Pass
7503.0	-60.46	-25	-35.46	-66.57	5.63	11.74	Horizontal	Pass
10004.0	-57.63	-25	-32.63	-64.86	5.8	13.03	Horizontal	Pass
5002.0	-52.69	-25	-27.69	-57.66	5.17	10.14	Vertical	Pass
7503.0	-59.74	-25	-34.74	-65.85	5.63	11.74	Vertical	Pass
10004.0	-56.09	-25	-31.09	-63.32	5.8	13.03	Vertical	Pass

LTE Band 7-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5052.0	-54.09	-25	-29.09	-59.07	5.19	10.17	Horizontal	Pass
7578.0	-59.8	-25	-34.8	-66.0	5.63	11.83	Horizontal	Pass
10104.0	-56.57	-25	-31.57	-63.72	5.9	13.05	Horizontal	Pass
5052.0	-53.91	-25	-28.91	-58.89	5.19	10.17	Vertical	Pass
7578.0	-60.09	-25	-35.09	-66.29	5.63	11.83	Vertical	Pass
10104.0	-55.82	-25	-30.82	-62.97	5.9	13.05	Vertical	Pass

LTE Band 7-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5102.0	-57.65	-25	-32.65	-62.63	5.22	10.2	Horizontal	Pass
7653.0	-59.92	-25	-34.92	-66.21	5.63	11.92	Horizontal	Pass
10204.0	-58.23	-25	-33.23	-65.3	6.0	13.07	Horizontal	Pass
5102.0	-53.26	-25	-28.26	-58.24	5.22	10.2	Vertical	Pass
7653.0	-57.73	-25	-32.73	-64.02	5.63	11.92	Vertical	Pass
10204.0	-57.46	-25	-32.46	-64.53	6.0	13.07	Vertical	Pass

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LTE Band 12-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1399.0	-28.67	-13	-15.67	-30.72	3.19	5.24	Horizontal	Pass
2098.5	-42.1	-13	-29.1	-43.61	3.35	4.86	Horizontal	Pass
2798.0	-47.7	-13	-34.7	-50.73	3.45	6.48	Horizontal	Pass
1399.0	-35.43	-13	-22.43	-37.48	3.19	5.24	Vertical	Pass
2098.5	-39.91	-13	-26.91	-41.42	3.35	4.86	Vertical	Pass
2798.0	-45.44	-13	-32.44	-48.47	3.45	6.48	Vertical	Pass

LTE Band 12-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1406.0	-29.48	-13	-16.48	-31.56	3.2	5.28	Horizontal	Pass
2109.0	-46.43	-13	-33.43	-47.96	3.35	4.88	Horizontal	Pass
2812.0	-48.25	-13	-35.25	-51.31	3.45	6.51	Horizontal	Pass
1406.0	-35.73	-13	-22.73	-37.81	3.2	5.28	Vertical	Pass
2109.0	-43.52	-13	-30.52	-45.05	3.35	4.88	Vertical	Pass
2812.0	-45.95	-13	-32.95	-49.01	3.45	6.51	Vertical	Pass

LTE Band 12-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1413.0	-32.17	-13	-19.17	-34.29	3.21	5.33	Horizontal	Pass
2119.5	-48.77	-13	-35.77	-50.32	3.36	4.91	Horizontal	Pass
2826.0	-49.92	-13	-36.92	-53.01	3.45	6.54	Horizontal	Pass
1413.0	-36.75	-13	-23.75	-38.87	3.21	5.33	Vertical	Pass
2119.5	-43.75	-13	-30.75	-45.3	3.36	4.91	Vertical	Pass
2826.0	-47.12	-13	-34.12	-50.21	3.45	6.54	Vertical	Pass



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

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
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 (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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LTE Band 13-Low channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1553.293	-36.46	-13	-23.46	-38.91	3.3	5.75	Horizontal	Pass
2334.183	-51.7	-13	-38.7	-53.72	3.4	5.42	Horizontal	Pass
3883.622	-53.87	-13	-40.87	-58.41	4.14	8.68	Horizontal	Pass
1553.293	-44.65	-13	-31.65	-47.1	3.3	5.75	Vertical	Pass
2334.183	-54.34	-13	-41.34	-56.36	3.4	5.42	Vertical	Pass
3883.622	-55.35	-13	-42.35	-59.89	4.14	8.68	Vertical	Pass

LTE Band 13-Middle channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1561.221	-41.03	-40	-1.03	-43.46	3.3	5.73	Horizontal	Pass
2340.132	-53.07	-13	-40.07	-55.11	3.4	5.44	Horizontal	Pass
3903.444	-53.35	-13	-40.35	-57.92	4.14	8.71	Horizontal	Pass
1561.221	-44.02	-40	-4.02	-46.45	3.3	5.73	Vertical	Pass
2340.132	-55.52	-13	-42.52	-57.56	3.4	5.44	Vertical	Pass
3903.444	-55.46	-13	-42.46	-60.03	4.14	8.71	Vertical	Pass

LTE Band 13-High channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1565.2	-41.89	-40	-1.89	-44.31	3.3	5.72	Horizontal	Pass
2346.097	-52.43	-13	-39.43	-54.47	3.41	5.45	Horizontal	Pass
3128.013	-56.11	-13	-43.11	-59.7	3.65	7.24	Horizontal	Pass
1565.2	-44.85	-40	-4.85	-47.27	3.3	5.72	Vertical	Pass
2346.097	-55.2	-13	-42.2	-57.24	3.41	5.45	Vertical	Pass
3128.013	-54.38	-13	-41.38	-57.97	3.65	7.24	Vertical	Pass

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LTE Band 14-Low channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1577.198	-44.33	-40	-4.33	-46.72	3.3	5.69	Horizontal	Pass
2364.082	-52.79	-13	-39.79	-54.87	3.41	5.49	Horizontal	Pass
3943.392	-51.74	-13	-38.74	-56.37	4.13	8.76	Horizontal	Pass
1577.198	-48.7	-40	-8.7	-51.09	3.3	5.69	Vertical	Pass
2364.082	-55.66	-13	-42.66	-57.74	3.41	5.49	Vertical	Pass
3151.992	-53.39	-13	-40.39	-57.0	3.69	7.3	Vertical	Pass

LTE Band 14-Middle channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1581.218	-44.24	-40	-4.24	-46.62	3.3	5.68	Horizontal	Pass
2370.107	-53.96	-13	-40.96	-56.06	3.41	5.51	Horizontal	Pass
3953.443	-53.36	-13	-40.36	-58.01	4.13	8.78	Horizontal	Pass
1581.218	-46.7	-40	-6.7	-49.08	3.3	5.68	Vertical	Pass
2370.107	-53.62	-13	-40.62	-55.72	3.41	5.51	Vertical	Pass
3953.443	-52.38	-13	-39.38	-57.03	4.13	8.78	Vertical	Pass

LTE Band 14-High channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1585.248	-44.16	-40	-4.16	-46.52	3.31	5.67	Horizontal	Pass
2382.204	-51.33	-13	-38.33	-53.46	3.41	5.54	Horizontal	Pass
3963.52	-55.2	-13	-42.2	-59.86	4.13	8.79	Horizontal	Pass
1585.248	-46.49	-40	-6.49	-48.85	3.31	5.67	Vertical	Pass
2382.204	-52.68	-13	-39.68	-54.81	3.41	5.54	Vertical	Pass
3963.52	-52.61	-13	-39.61	-57.27	4.13	8.79	Vertical	Pass

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LTE Band 17-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1409.0	-28.79	-13	-15.79	-30.88	3.21	5.3	Horizontal	Pass
2113.5	-43.91	-13	-30.91	-45.45	3.35	4.89	Horizontal	Pass
2818.0	-47.15	-13	-34.15	-50.22	3.45	6.52	Horizontal	Pass
1409.0	-34.83	-13	-21.83	-36.92	3.21	5.3	Vertical	Pass
2113.5	-40.15	-13	-27.15	-41.69	3.35	4.89	Vertical	Pass
2818.0	-43.22	-13	-30.22	-46.29	3.45	6.52	Vertical	Pass

LTE Band 17-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1411.0	-29.68	-13	-16.68	-31.79	3.21	5.32	Horizontal	Pass
2116.5	-44.36	-13	-31.36	-45.9	3.36	4.9	Horizontal	Pass
2822.0	-46.65	-13	-33.65	-49.73	3.45	6.53	Horizontal	Pass
1411.0	-35.3	-13	-22.3	-37.41	3.21	5.32	Vertical	Pass
2116.5	-40.77	-13	-27.77	-42.31	3.36	4.9	Vertical	Pass
2822.0	-44.06	-13	-31.06	-47.14	3.45	6.53	Vertical	Pass

LTE Band 17-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1413.0	-31.56	-13	-18.56	-33.68	3.21	5.33	Horizontal	Pass
2119.5	-45.69	-13	-32.69	-47.24	3.36	4.91	Horizontal	Pass
2826.0	-49.21	-13	-36.21	-52.3	3.45	6.54	Horizontal	Pass
1413.0	-35.32	-13	-22.32	-37.44	3.21	5.33	Vertical	Pass
2119.5	-41.33	-13	-28.33	-42.88	3.36	4.91	Vertical	Pass
2826.0	-46.94	-13	-33.94	-50.03	3.45	6.54	Vertical	Pass

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LTE Band 25-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3702.0	-61.87	-13	-48.87	-66.13	4.18	8.44	Horizontal	Pass
5553.0	-61.57	-13	-48.57	-66.64	5.38	10.45	Horizontal	Pass
7404.0	-62.26	-13	-49.26	-68.26	5.62	11.62	Horizontal	Pass
3702.0	-62.06	-13	-49.06	-66.32	4.18	8.44	Vertical	Pass
5553.0	-61.1	-13	-48.1	-66.17	5.38	10.45	Vertical	Pass
7404.0	-62.37	-13	-49.37	-68.37	5.62	11.62	Vertical	Pass

LTE Band 25-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3747.0	-66.55	-13	-53.55	-70.88	4.17	8.5	Horizontal	Pass
5620.5	-62.01	-13	-49.01	-67.11	5.35	10.45	Horizontal	Pass
7494.0	-61.62	-13	-48.62	-67.72	5.63	11.73	Horizontal	Pass
3747.0	-66.88	-13	-53.88	-71.21	4.17	8.5	Vertical	Pass
5620.5	-62.24	-13	-49.24	-67.34	5.35	10.45	Vertical	Pass
7494.0	-61.07	-13	-48.07	-67.17	5.63	11.73	Vertical	Pass

LTE Band 25-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3792.0	-66.77	-13	-53.77	-71.17	4.16	8.56	Horizontal	Pass
5688.0	-62.41	-13	-49.41	-67.53	5.33	10.45	Horizontal	Pass
7584.0	-60.69	-13	-47.69	-66.9	5.63	11.84	Horizontal	Pass
3792.0	-66.37	-13	-53.37	-70.77	4.16	8.56	Vertical	Pass
5688.0	-62.54	-13	-49.54	-67.66	5.33	10.45	Vertical	Pass
7584.0	-60.78	-13	-47.78	-66.99	5.63	11.84	Vertical	Pass



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LTE Band 26a(814-824MHz)-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1629.0	-39.08	-13	-26.08	-41.32	3.31	5.55	Horizontal	Pass
2443.5	-50.45	-13	-37.45	-52.7	3.43	5.68	Horizontal	Pass
3258.0	-59.56	-13	-46.56	-63.27	3.85	7.56	Horizontal	Pass
1629.0	-41.61	-13	-28.61	-43.85	3.31	5.55	Vertical	Pass
2443.5	-52.21	-13	-39.21	-54.46	3.43	5.68	Vertical	Pass
3258.0	-59.41	-13	-46.41	-63.12	3.85	7.56	Vertical	Pass



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LTE Band 26b(824-849MHz)-Low channel, Modulation: QPSK, Bandwidth:15MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1651.146	-41.82	-13	-28.82	-44.01	3.31	5.5	Horizontal	Pass
2474.923	-51.34	-13	-38.34	-53.67	3.43	5.76	Horizontal	Pass
3299.775	-60.84	-13	-47.84	-64.59	3.92	7.67	Horizontal	Pass
1649.5	-42.76	-13	-29.76	-44.95	3.31	5.5	Vertical	Pass
2474.25	-50.31	-13	-37.31	-52.64	3.43	5.76	Vertical	Pass
3299.775	-60.88	-13	-47.88	-64.63	3.92	7.67	Vertical	Pass

LTE Band 26b(824-849MHz)-Middle channel, Modulation: QPSK, Bandwidth:15MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1659.574	-43.61	-13	-30.61	-45.78	3.31	5.48	Horizontal	Pass
2487.555	-50.5	-13	-37.5	-52.85	3.44	5.79	Horizontal	Pass
3316.617	-61.96	-13	-48.96	-65.73	3.94	7.71	Horizontal	Pass
1659.574	-43.61	-13	-30.61	-45.78	3.31	5.48	Vertical	Pass
2487.555	-50.5	-13	-37.5	-52.85	3.44	5.79	Vertical	Pass
3316.617	-61.96	-13	-48.96	-65.73	3.94	7.71	Vertical	Pass

LTE Band 26b(824-849MHz)-High channel, Modulation: QPSK, Bandwidth:15MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1668.044	-45.43	-13	-32.43	-47.58	3.31	5.46	Horizontal	Pass
2506.624	-50.73	-13	-37.73	-53.12	3.44	5.83	Horizontal	Pass
3342.042	-59.99	-13	-46.99	-63.79	3.98	7.78	Horizontal	Pass
1668.044	-46.01	-13	-33.01	-48.16	3.31	5.46	Vertical	Pass
2506.624	-52.3	-13	-39.3	-54.69	3.44	5.83	Vertical	Pass
3342.042	-60.92	-13	-47.92	-64.72	3.98	7.78	Vertical	Pass

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LTE Band 41-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5082.0	-62.5	-25	-37.5	-67.48	5.21	10.19	Horizontal	Pass
7623.0	-60.4	-25	-35.4	-66.66	5.63	11.89	Horizontal	Pass
10164.0	-58.04	-25	-33.04	-65.14	5.96	13.06	Horizontal	Pass
5075.317	-54.45	-25	-29.45	-59.44	5.2	10.19	Vertical	Pass
7623.0	-60.25	-25	-35.25	-66.51	5.63	11.89	Vertical	Pass
10164.0	-57.73	-25	-32.73	-64.83	5.96	13.06	Vertical	Pass

LTE Band 41-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5168.0	-62.44	-25	-37.44	-67.43	5.25	10.24	Horizontal	Pass
7752.0	-59.8	-25	-34.8	-66.21	5.63	12.04	Horizontal	Pass
10336.0	-57.68	-25	-32.68	-64.63	6.14	13.09	Horizontal	Pass
5168.0	-63.15	-25	-38.15	-68.14	5.25	10.24	Vertical	Pass
7752.0	-59.33	-25	-34.33	-65.74	5.63	12.04	Vertical	Pass
10336.0	-59.25	-25	-34.25	-66.2	6.14	13.09	Vertical	Pass

LTE Band 41-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5262.0	-63.14	-25	-38.14	-68.15	5.29	10.3	Horizontal	Pass
7893.0	-59.5	-25	-34.5	-66.07	5.63	12.2	Horizontal	Pass
10524.0	-58.3	-25	-33.3	-65.13	6.3	13.13	Horizontal	Pass
5262.0	-58.89	-25	-33.89	-63.9	5.29	10.3	Vertical	Pass
7893.0	-58.85	-25	-33.85	-65.42	5.63	12.2	Vertical	Pass
10524.0	-57.67	-25	-32.67	-64.5	6.3	13.13	Vertical	Pass

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LTE Band 66-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3422.0	-56.99	-13	-43.99	-60.87	4.1	7.98	Horizontal	Pass
5133.0	-62.67	-13	-49.67	-67.66	5.23	10.22	Horizontal	Pass
6844.0	-61.61	-13	-48.61	-67.0	5.54	10.93	Horizontal	Pass
3422.0	-56.46	-13	-43.46	-60.34	4.1	7.98	Vertical	Pass
5133.0	-62.27	-13	-49.27	-67.26	5.23	10.22	Vertical	Pass
6844.0	-61.72	-13	-48.72	-67.11	5.54	10.93	Vertical	Pass

LTE Band 66-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3472.0	-67.01	-13	-54.01	-70.93	4.18	8.1	Horizontal	Pass
5208.0	-63.02	-13	-50.02	-68.02	5.27	10.27	Horizontal	Pass
6944.0	-61.78	-13	-48.78	-67.28	5.56	11.06	Horizontal	Pass
3472.0	-67.26	-13	-54.26	-71.18	4.18	8.1	Vertical	Pass
5208.0	-62.69	-13	-49.69	-67.69	5.27	10.27	Vertical	Pass
6944.0	-61.95	-13	-48.95	-67.45	5.56	11.06	Vertical	Pass

LTE Band 66-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3522.0	-66.57	-13	-53.57	-70.55	4.22	8.2	Horizontal	Pass
5283.0	-62.12	-13	-49.12	-67.14	5.3	10.32	Horizontal	Pass
7044.0	-62.38	-13	-49.38	-67.98	5.58	11.18	Horizontal	Pass
3522.0	-66.8	-13	-53.8	-70.78	4.22	8.2	Vertical	Pass
5283.0	-63.16	-13	-50.16	-68.18	5.3	10.32	Vertical	Pass
7044.0	-62.37	-13	-49.37	-67.97	5.58	11.18	Vertical	Pass



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LTE Band 71-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1328.0	-30.64	-13	-17.64	-32.31	3.12	4.79	Horizontal	Pass
1992.0	-34.12	-13	-21.12	-35.43	3.33	4.64	Horizontal	Pass
2656.0	-44.34	-13	-31.34	-47.05	3.45	6.16	Horizontal	Pass
1328.0	-34.55	-13	-21.55	-36.22	3.12	4.79	Vertical	Pass
1992.0	-33.97	-13	-20.97	-35.28	3.33	4.64	Vertical	Pass
2656.0	-44.19	-13	-31.19	-46.9	3.45	6.16	Vertical	Pass

LTE Band 71-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1343.0	-27.14	-13	-14.14	-28.88	3.14	4.88	Horizontal	Pass
2014.5	-34.26	-13	-21.26	-35.58	3.33	4.65	Horizontal	Pass
2686.0	-44.72	-13	-31.72	-47.5	3.45	6.23	Horizontal	Pass
1343.0	-32.64	-13	-19.64	-34.38	3.14	4.88	Vertical	Pass
2014.5	-35.38	-13	-22.38	-36.7	3.33	4.65	Vertical	Pass
2686.0	-42.51	-13	-29.51	-45.29	3.45	6.23	Vertical	Pass

LTE Band 71-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1358.0	-25.95	-13	-12.95	-27.78	3.15	4.98	Horizontal	Pass
2037.0	-36.61	-13	-23.61	-37.98	3.34	4.71	Horizontal	Pass
2716.0	-43.79	-13	-30.79	-46.64	3.45	6.3	Horizontal	Pass
1358.0	-30.67	-13	-17.67	-32.5	3.15	4.98	Vertical	Pass
2037.0	-36.46	-13	-23.46	-37.83	3.34	4.71	Vertical	Pass
2716.0	-42.46	-13	-29.46	-45.31	3.45	6.3	Vertical	Pass

Note: All modes have been tested and we found QPSK test mode has the worst test result. Only record the worst test result.



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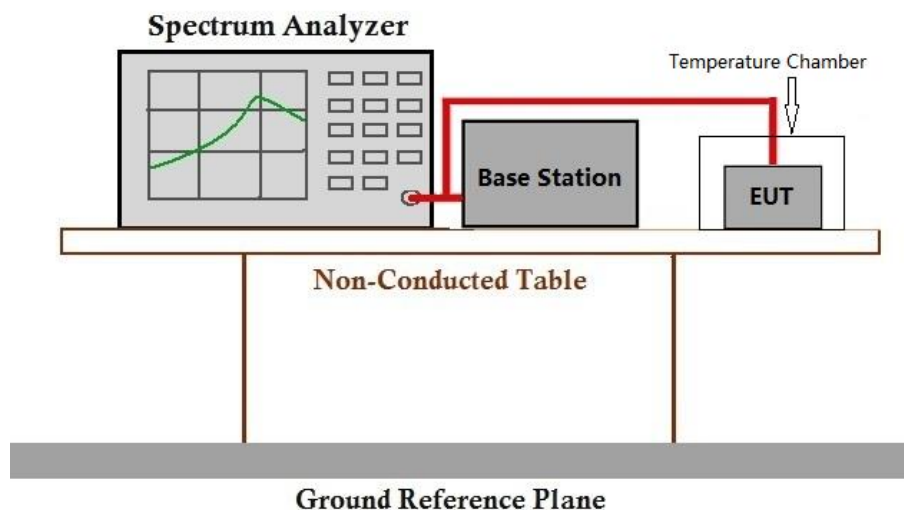
6.7 Frequency stability

Test Requirement: \$2.1055, \$22.355, \$24.235, \$27.54, \$90.213
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: $\leq \pm 2.5\text{ppm}$.

6.7.1 E.U.T. Operation

Operating Environment:
 Temperature: 20.8 °C Humidity: 43.5 % RH Atmospheric Pressure: 1020 mbar
 Test mode 32: TX mode_Keep the EUT in transmitting mode

6.7.2 Test Setup Diagram



6.7.3 Measurement Data

Please refer to Appendix for LTE test data.

7 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2511004755AT

8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2511004755AT

- End of the Report -

