TEST REPORT

Application No.:	SZCR2411004078AT
Applicant:	Shenzhen Xinguodu Technology Co., Ltd.
Address of Applicant:	17B JinSong Mansion, Terra Industrial & Trade Park Chegongmiao, Futian District, Shenzhen, 518040 China
Manufacturer:	Shenzhen Xinguodu Technology Co., Ltd.
Address of Manufacturer:	17B JinSong Mansion, Terra Industrial & Trade Park Chegongmiao, Futian District, Shenzhen, 518040 China
Equipment Under Test (EUT):	
EUT Name:	POS Terminal
Model No.:	KD69-K3, KD69-K3_V28_T51, KD69-K3_V08_R00_T40, KD69-K3_V28_R00, KD69-K3_V28 ♣
♣	Please refer to section 4.1 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark:	NEXGO
FCC ID:	XDQKD69-01
Standard(s) :	47 CFR Part 2 47 CFR Part 22 47 CFR Part 24 47 CFR Part 27
Date of Receipt:	2024-11-01
Date of Test:	2024-11-06 to 2024-11-27
Date of Issue:	2024-11-28
Test Result:	**Pass**

* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu
EMC Laboratory Manager

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Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
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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(d) §27.50(h)	ERP≤ 7W(LTE Band 5) EIRP≤ 2W(LTE Band 2) EIRP≤ 1W(LTE Band 4,66) EIRP≤ 2W(LTE Band 7)	PASS
Peak-Average Ratio	§22.913 §24.232 §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(h) §27.50(m)	≤ -13dBm (LTE Band5) ≤ -13dBm (LTE Band2) ≤ -13dBm (LTE Band4,66) Refer to clause 6.4 for LTE Band7	PASS
Spurious emissions at antenna terminals	§2.1051 §22.917 §24.238 §27.50(h) §27.50(m)	≤ -13dBm (LTE Band5) ≤ -13dBm (LTE Band2) ≤ -13dBm (LTE Band4,66) Refer to clause 6.5 for LTE Band7	PASS
Field strength of spurious radiation	§2.1051 §22.917 §24.238 §27.50(h) §27.50(m)	≤ -13dBm (LTE Band5) ≤ -13dBm (LTE Band2) ≤ -13dBm (LTE Band4,66) Refer to clause 6.6 for LTE Band7	PASS
Frequency stability	§2.1055 §22.355 §24.235 §27.54	≤ ±2.5ppm.	PASS

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4 General Information

4.1 Details of E.U.T.

Power supply:	DC3.6V by li-ion battery(2600mAh) Battery M/N:GX07 Battery Manufacturer: Huarui Lithium Energy(Shenzhen) Co.,Ltd. Recharge input:DC5V/1A
Cable Loss (for RF conducted test):	Below 1GHz: 0.5dB, 1GHz~2GHz:0.7dB, Above 2GHz: 1dB
Sample Type:	Mobile device
LTE Operation Frequency Band:	LTE B2/4/5/7/66
Modulation Type:	QPSK, 16QAM
LTE Power Class:	Level 3
Antenna Type:	PIFA Antenna
Antenna Gain:	LTE b2:2.23dBi,b4: 4.14dBi,b5:0.52dBi,b7:1.69dBi,b66:4.14dBi

Remark:The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

Remark:

Model No.: KD69-K3, KD69-K3_V28_T51, KD69-K3_V08_R00_T40, KD69-K3_V28_R00, KD69-K3_V28

Only the model KD69-K3 was tested. According to the declaration from the applicant, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for all the above models, with only difference on:

KD69-K3_V28_T51 is different in that it has more internal cover plates and a larger display size,

KD69-K3_V28 is different in that the display is larger,

KD69-K3_V08_R00_T40 is different in that it has only one screen and four buttons,

KD69-K3_V28_R00 is difference in that the screen size is different from the main configuration.

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
Test mode:	**Nominal Bandwidth**	**RF Channel**		
		Low (L)	**Middle (M)**	**High (H)**

	(MHz)	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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4.3 Test Environment

Environment Parameter	Selected Values During Tests	
Temperature:	TL	-30°C
	TN	+20°C
	TH	+50°C
Voltage:	VL	3.3 Vdc
	VN	3.6 Vdc
	VH	4.2 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	± 5.4 x 10^{-8}
2	Duty cycle	± 0.3%
3	Occupied Bandwidth	± 3%
4	RF conducted power	± 0.8dB
5	RF power density	± 0.4dB
6	Conducted Spurious emissions	± 2.7dB
7	Radiated Spurious emission test	± 3.1dB (Below 1GHz)
		± 4.4dB (Above 1GHz)
8	Temperature test	± 1°C
9	Humidity test	± 3%
10	Supply voltages	± 1.5%
11	Time	± 3%

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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.

4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None

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	2024-07-10	2025-07-09
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-20	2025-03-19
MXA Signal Analyzer	KEYSIGHT	N9020B	SEM004-24	2024-03-14	2025-03-13
Measurement Software	TST	TST PASS V2.0	N/A	N/A	N/A
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2024-03-27	2025-03-26
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-19	2025-03-18
Power Sensor	KEYSIGHT	U2021XA	SEM009-15	2024-03-20	2025-03-19

RE in Chamber					
Test Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal. Date**	**Cal. Due date**
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-05-11	2027-05-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2023-09-23	2025-09-22
Substitution Antenna	Schwarzbeck	VULB9168	SEM003-18	2022-08-07	2025-08-06
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2024-07-06	2025-07-05
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2024-08-10	2025-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14
Signal Generator(9kHz-40GHz)	N5173B	MY53270267	Agilent	2024-09-14	2025-09-13

Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021-09-26	2024-09-25
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2024-03-15	2025-03-14
Substitution Antenna	Rohde & Schwarz	HF907	SEM003-06	2024-08-03	2025-08-02
Substitution Antenna	ETS-LINDGREN	3160-09	SEM003-12	2024-08-03	2025-08-02
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2024-03-27	2025-03-26
Universal Radio Communication Tester	Anritsu	MT8000A	SEM010-10	2024-3-14	2025-3-13

General used equipment					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Humidity- Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity- Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-22	2025-03-21

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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(d),§27.50(h)

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

Limit: ERP≤ 7W(LTE Band 5)
EIRP≤ 2W(LTE Band 2)
EIRP≤ 1W(LTE Band 4,66)
EIRP≤ 2W(LTE Band 7)

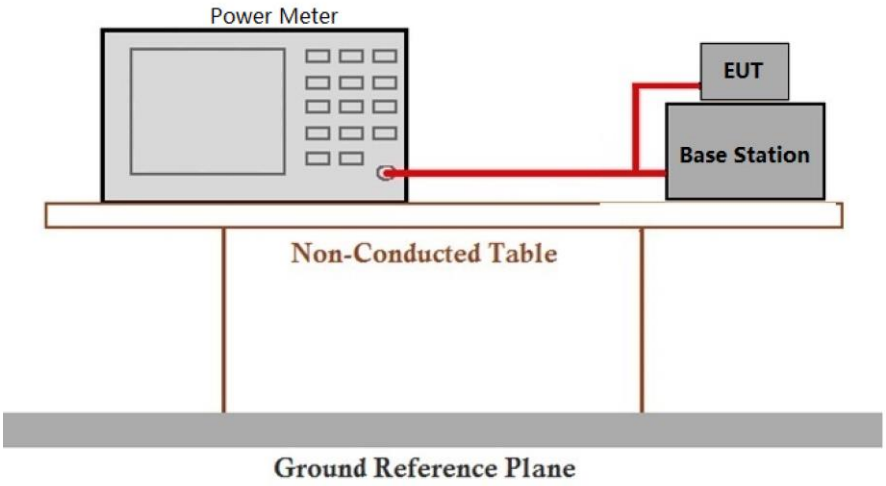
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 19.5 °C Humidity: 45.5 % 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.

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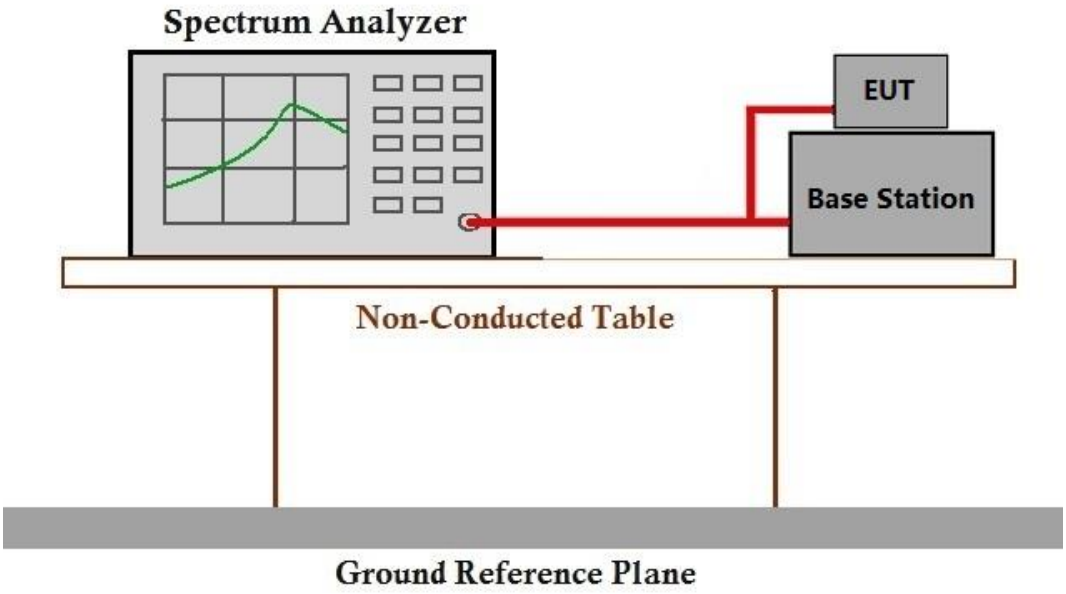
6.2 Peak-Average Ratio

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

6.2.1 E.U.T. Operation

Operating Environment:
Temperature: 19.5 °C Humidity: 45.5 % 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: §2.1049(h)

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

Limit: OBW: No limit
EBW: No limit

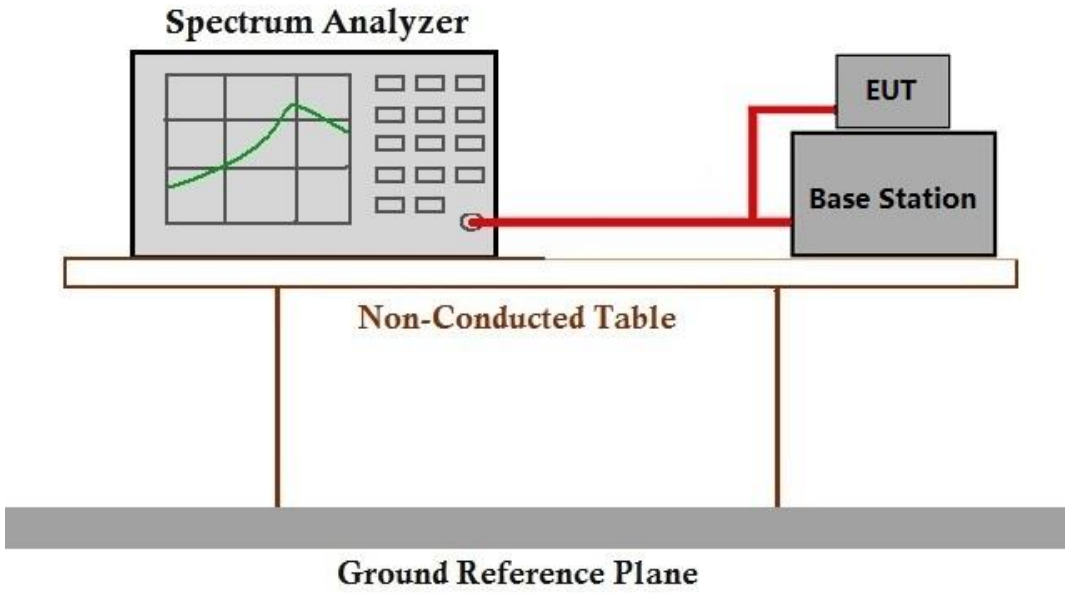
6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 19.5 °C Humidity: 45.5 % 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, §22.917, §24.238, §27.50(h), §27.50(m)

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

Limit: ≤ -13dBm (**LTE Band2,4,5,66**)

For **Band7**:

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. 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.

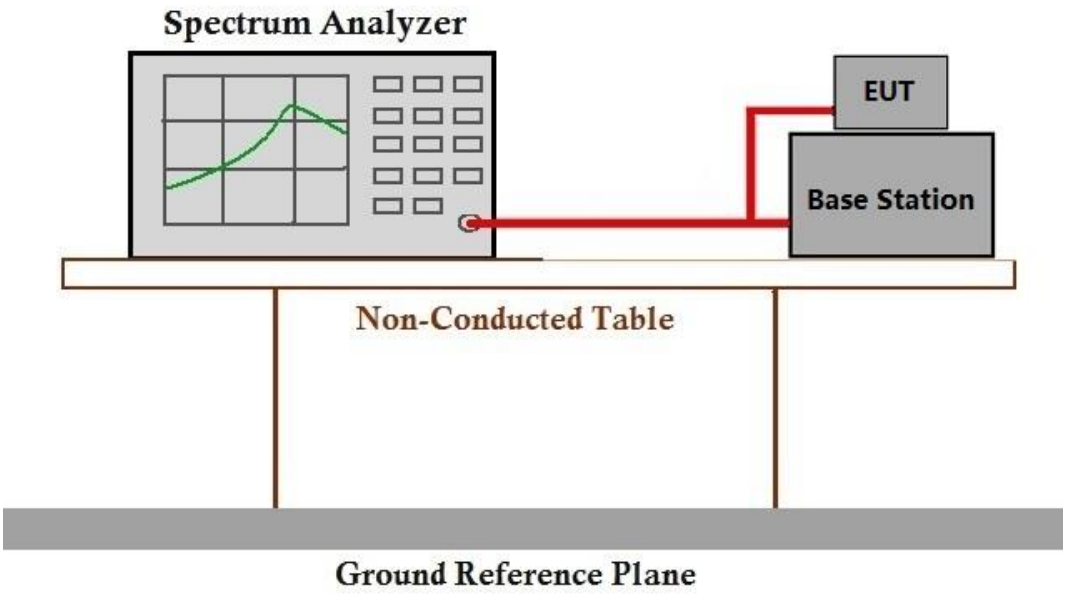
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 19.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode_Keep the EUT in transmitting mode

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, §22.917, §24.238, §27.50(h), §27.50(m)

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

Limit: ≤ -13dBm (**LTE Band2,4,5,66**)

For **Band7**:

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. 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.

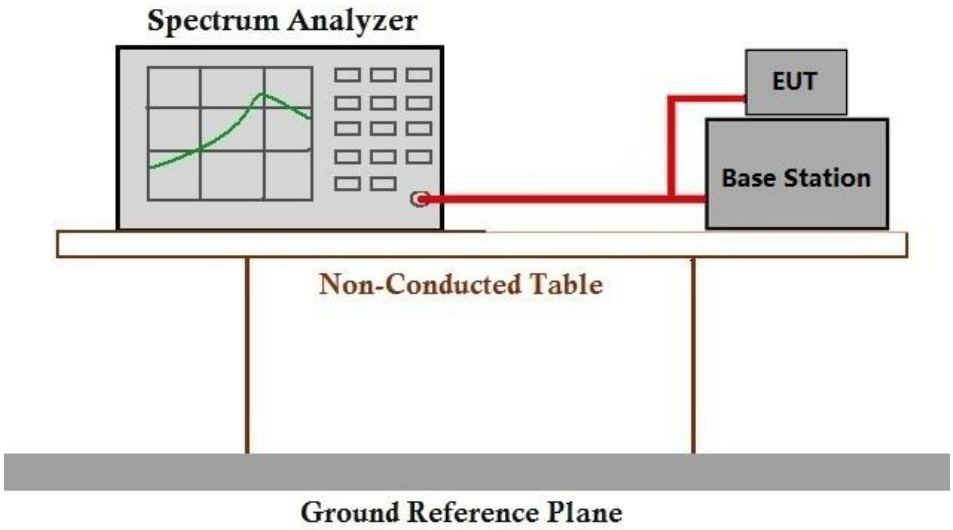
6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 19.5 °C Humidity: 45.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode_Keep the EUT in transmitting mode

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, §22.917, §24.238, §27.50(h), §27.50(m)

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

Limit: ≤ -13dBm (**LTE Band2,4,5,66**)

For **Band7**:

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. 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.

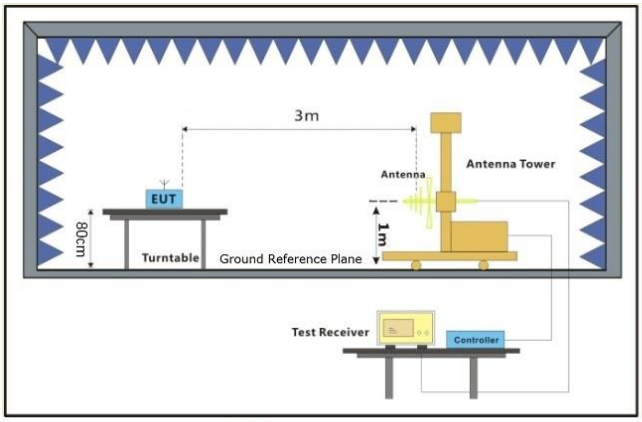
6.6.1 E.U.T. Operation

Operating Environment:

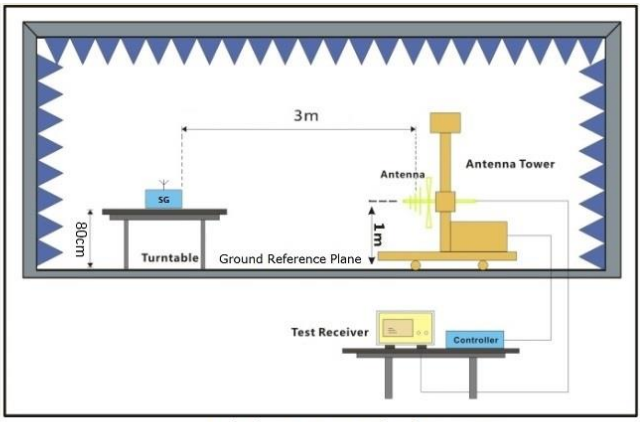
Temperature: 21.5 °C Humidity: 49.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode_Keep the EUT in transmitting mode

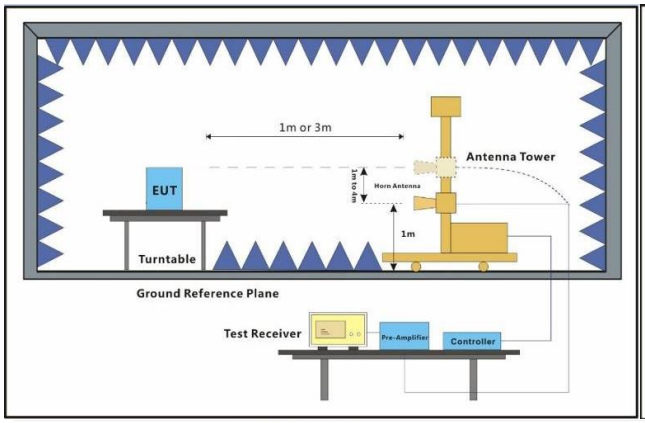
6.6.2 Test Setup Diagram



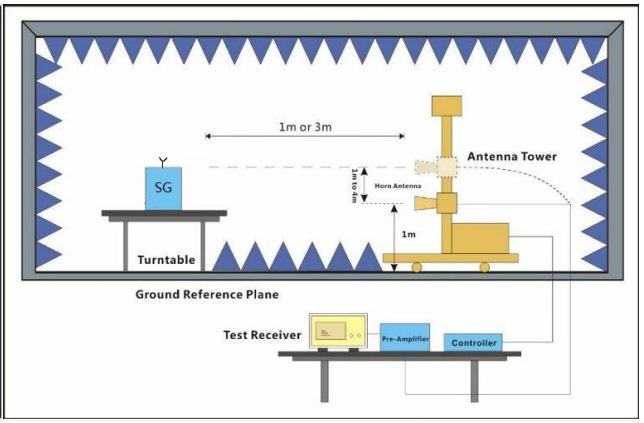
EUT



Substiute Antenna+Signal Generator



EUT



Substiute Antenna+Signal Generator

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 than 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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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
4888.151	-48.68	-13	-35.68	-54.46	4.19	9.97	Horizontal	Pass
9420.88	-49.51	-13	-36.51	-57.97	4.78	13.24	Horizontal	Pass
17741.74	-48.46	-13	-35.46	-57.85	4.65	14.04	Horizontal	Pass
4988.058	-51.29	-13	-38.29	-57.16	4.25	10.12	Vertical	Pass
9232.187	-49.27	-13	-36.27	-57.8	4.69	13.22	Vertical	Pass
17844.59	-47.43	-13	-34.43	-56.74	4.66	13.97	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
4988.058	-51.31	-13	-38.31	-57.18	4.25	10.12	Horizontal	Pass
9448.149	-49.99	-13	-36.99	-58.44	4.79	13.24	Horizontal	Pass
17793.09	-47.22	-13	-34.22	-56.56	4.66	14.0	Horizontal	Pass
5179.049	-51.06	-13	-38.06	-57.06	4.25	10.25	Vertical	Pass
9475.497	-49.87	-13	-36.87	-58.3	4.81	13.24	Vertical	Pass
17336.2	-48.09	-13	-35.09	-57.33	4.65	13.89	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
4916.49	-51.54	-13	-38.54	-57.35	4.21	10.02	Horizontal	Pass
9558.018	-49.91	-13	-36.91	-58.28	4.85	13.22	Horizontal	Pass
17336.2	-47.88	-13	-34.88	-57.12	4.65	13.89	Horizontal	Pass
5016.977	-51.06	-13	-38.06	-56.95	4.26	10.15	Vertical	Pass
8917.462	-49.94	-13	-36.94	-58.56	4.54	13.16	Vertical	Pass
17336.2	-46.83	-13	-33.83	-56.07	4.65	13.89	Vertical	Pass

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
5060.668	-49.97	-13	-36.97	-55.89	4.26	10.18	Horizontal	Pass
9339.543	-49.1	-13	-36.1	-57.59	4.74	13.23	Horizontal	Pass
17336.2	-47.18	-13	-34.18	-56.42	4.65	13.89	Horizontal	Pass
5002.497	-52.07	-13	-39.07	-57.95	4.26	10.14	Vertical	Pass
9339.543	-49.24	-13	-36.24	-57.73	4.74	13.23	Vertical	Pass
17386.38	-47.98	-13	-34.98	-57.31	4.65	13.98	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
5016.977	-50.89	-13	-37.89	-56.78	4.26	10.15	Horizontal	Pass
9475.497	-50.03	-13	-37.03	-58.46	4.81	13.24	Horizontal	Pass
17793.09	-47.84	-13	-34.84	-57.18	4.66	14.0	Horizontal	Pass
4973.662	-50.65	-13	-37.65	-56.51	4.24	10.1	Vertical	Pass
9502.925	-49.87	-13	-36.87	-58.29	4.82	13.24	Vertical	Pass
17793.09	-47.92	-13	-34.92	-57.26	4.66	14.0	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
5031.499	-51.38	-13	-38.38	-57.28	4.26	10.16	Horizontal	Pass
9558.018	-49.95	-13	-36.95	-58.32	4.85	13.22	Horizontal	Pass
17336.2	-47.75	-13	-34.75	-56.99	4.65	13.89	Horizontal	Pass
4888.151	-48.84	-13	-35.84	-54.62	4.19	9.97	Vertical	Pass
9448.149	-50.09	-13	-37.09	-58.54	4.79	13.24	Vertical	Pass
17336.2	-48.27	-13	-35.27	-57.51	4.65	13.89	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
5031.499	-50.87	-13	-37.87	-56.77	4.26	10.16	Horizontal	Pass
9558.018	-48.97	-13	-35.97	-57.34	4.85	13.22	Horizontal	Pass
17436.71	-48.2	-13	-35.2	-57.63	4.65	14.08	Horizontal	Pass
4916.49	-51.53	-13	-38.53	-57.34	4.21	10.02	Vertical	Pass
9205.54	-49.86	-13	-36.86	-58.41	4.67	13.22	Vertical	Pass
17948.05	-48.03	-13	-35.03	-57.27	4.66	13.9	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
4930.721	-50.71	-13	-37.71	-56.53	4.22	10.04	Horizontal	Pass
9448.149	-49.85	-13	-36.85	-58.3	4.79	13.24	Horizontal	Pass
17186.53	-47.44	-13	-34.44	-56.4	4.64	13.6	Horizontal	Pass
4973.662	-51.32	-13	-38.32	-57.18	4.24	10.1	Vertical	Pass
9475.497	-48.11	-13	-35.11	-56.54	4.81	13.24	Vertical	Pass
17386.38	-47.82	-13	-34.82	-57.15	4.65	13.98	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
4930.721	-50.69	-13	-37.69	-56.51	4.22	10.04	Horizontal	Pass
9558.018	-49.65	-13	-36.65	-58.02	4.85	13.22	Horizontal	Pass
17793.09	-47.63	-13	-34.63	-56.97	4.66	14.0	Horizontal	Pass
4988.058	-51.33	-13	-38.33	-57.2	4.25	10.12	Vertical	Pass
9502.925	-49.58	-13	-36.58	-58.0	4.82	13.24	Vertical	Pass
17436.71	-48.29	-13	-35.29	-57.72	4.65	14.08	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
5090.007	-51.05	-13	-38.05	-56.99	4.26	10.2	Horizontal	Pass
9558.018	-49.74	-13	-36.74	-58.11	4.85	13.22	Horizontal	Pass
17336.2	-47.97	-13	-34.97	-57.21	4.65	13.89	Horizontal	Pass
4888.151	-48.7	-13	-35.7	-54.48	4.19	9.97	Vertical	Pass
9420.88	-49.67	-13	-36.67	-58.13	4.78	13.24	Vertical	Pass
17286.17	-47.24	-13	-34.24	-56.38	4.65	13.79	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
5002.497	-51.36	-13	-38.36	-57.24	4.26	10.14	Horizontal	Pass
9697.151	-49.53	-13	-36.53	-57.77	4.92	13.16	Horizontal	Pass
17236.28	-46.96	-13	-33.96	-56.01	4.64	13.69	Horizontal	Pass
4888.151	-48.9	-13	-35.9	-54.68	4.19	9.97	Vertical	Pass
9448.149	-49.51	-13	-36.51	-57.96	4.79	13.24	Vertical	Pass
17336.2	-48.19	-13	-35.19	-57.43	4.65	13.89	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
5134.335	-50.96	-13	-37.96	-56.93	4.25	10.22	Horizontal	Pass
9366.577	-51.17	-13	-38.17	-59.65	4.75	13.23	Horizontal	Pass
17386.38	-51.26	-13	-38.26	-60.59	4.65	13.98	Horizontal	Pass
5119.517	-50.9	-13	-37.9	-56.85	4.26	10.21	Vertical	Pass
9339.543	-52.05	-13	-39.05	-60.54	4.74	13.23	Vertical	Pass
17236.28	-52.06	-13	-39.06	-61.11	4.64	13.69	Vertical	Pass

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
5104.741	-51.52	-25	-26.52	-57.46	4.26	10.2	Horizontal	Pass
9669.164	-51.5	-25	-26.5	-59.76	4.91	13.17	Horizontal	Pass
17741.74	-52.47	-25	-27.47	-61.86	4.65	14.04	Horizontal	Pass
5119.517	-51.4	-25	-26.4	-57.35	4.26	10.21	Vertical	Pass
9339.543	-51.7	-25	-26.7	-60.19	4.74	13.23	Vertical	Pass
17186.53	-51.98	-25	-26.98	-60.94	4.64	13.6	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
5002.497	-51.99	-25	-26.99	-57.87	4.26	10.14	Horizontal	Pass
9530.432	-50.75	-25	-25.75	-59.14	4.84	13.23	Horizontal	Pass
17286.17	-51.68	-25	-26.68	-60.82	4.65	13.79	Horizontal	Pass
4888.151	-52.1	-25	-27.1	-57.88	4.19	9.97	Vertical	Pass
9448.149	-50.71	-25	-25.71	-59.16	4.79	13.24	Vertical	Pass
17186.53	-51.55	-25	-26.55	-60.51	4.64	13.6	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
4959.307	-51.3	-25	-26.3	-57.15	4.23	10.08	Horizontal	Pass
9393.689	-50.31	-25	-25.31	-58.77	4.77	13.23	Horizontal	Pass
17286.17	-51.9	-25	-26.9	-61.04	4.65	13.79	Horizontal	Pass
4959.307	-51.62	-25	-26.62	-57.47	4.23	10.08	Vertical	Pass
9502.925	-51.7	-25	-26.7	-60.12	4.82	13.24	Vertical	Pass
17136.92	-51.86	-25	-26.86	-60.72	4.64	13.5	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.

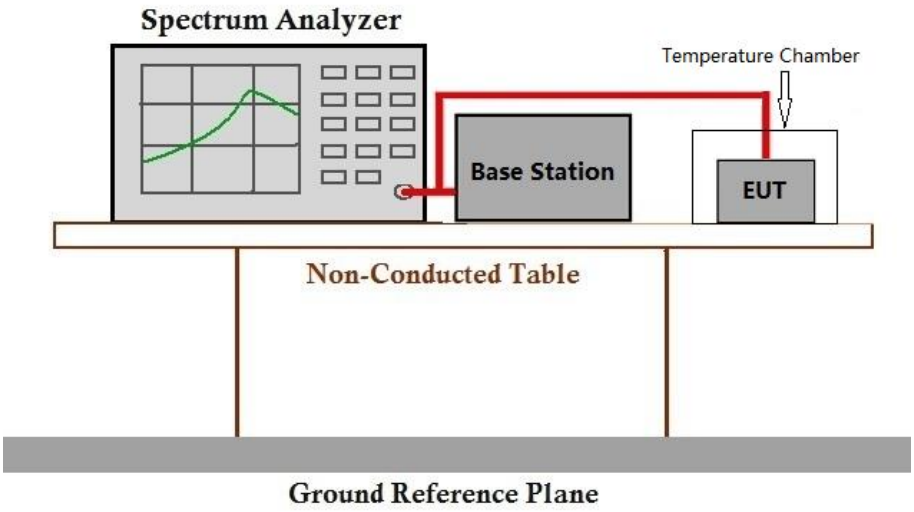
6.7 Frequency stability

Test Requirement: §2.1055,§22.355,§24.235,§27.54
Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
Limit: ≤ ±2.5ppm.

6.7.1 E.U.T. Operation

Operating Environment:
Temperature: 19.5 °C Humidity: 45.5 % 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.

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7 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2411004078AT

8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2411004078AT

- End of the Report -

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