



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR241000393902

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TEST REPORT

Application No.: SZCR2410003939MO
Applicant: Telit Communications S.p.A.
Address of Applicant: Via Stazione di Prosecco 5/b, 34010 Sgonico – Trieste, Italy
Manufacturer: Telit Communications S.p.A.
Address of Manufacturer: Via Stazione di Prosecco 5/b, 34010 Sgonico – Trieste, Italy
Factory: FUYU PRECISION COMPONENT CO., LTD
Address of Factory: Lot M1, Lot F and Lot T1 Quang Chau Industrial Zone, Van Trung Ward, Viet Yen Town, Bac Giang Province, Vietnam

Equipment Under Test (EUT):

EUT Name: Radio Module
Model No.: LE910Q1-SN
Trade Mark: Telit Cinterion
FCC ID: RI7LE910Q1SN
Standard(s) : 47 CFR Part 2
47 CFR Part 22
47 CFR Part 24
47 CFR Part 27

Date of Receipt: 2024-10-24
Date of Test: 2024-10-25 to 2024-11-01
Date of Issue: 2024-11-04

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		2024-11-04		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)	ERP≤ 7W(LTE Band 5) EIRP≤ 2W(LTE Band 2) ERP≤ 3W(LTE Band 13) ERP≤ 3W(LTE Band 12) EIRP≤ 1W(LTE Band 4,66)	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(g) §27.50(h) §27.53(c)	≤ -13dBm (LTE Band5) ≤ -13dBm (LTE Band2) ≤ -13dBm (LTE Band12) ≤ -13dBm (LTE Band4,66) Refer to clause 6.4 for LTE Band13	PASS
Spurious emissions at antenna terminals	§2.1051 §22.917 §24.238 §27.50(g) §27.50(h) §27.53(c)	≤ -13dBm (LTE Band5) ≤ -13dBm (LTE Band2) ≤ -13dBm (LTE Band12) ≤ -13dBm (LTE Band4,66) Refer to clause 6.5 for LTE Band13	PASS
Field strength of spurious radiation	§2.1051 §22.917 §24.238 §27.50(g) §27.50(h) §27.53(c)	≤ -13dBm (LTE Band5) ≤ -13dBm (LTE Band2) ≤ -13dBm (LTE Band12) ≤ -13dBm (LTE Band4,66) Refer to clause 6.6 for LTE Band13	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:	DC3.8V
Cable Loss (for RF conducted test):	Below 1GHz: 0.5dB, 1GHz~2GHz:0.7dB, Above 2GHz: 1dB
Sample Type:	Mobile production
LTE Operation Frequency Band:	LTE B2/4/5/12/13/66
Modulation Type:	QPSK, 16QAM
LTE Power Class:	Level 3
Antenna Type:	External Antenna
Antenna Gain:	LTE B2: 2.17dBi, B4: 2.17dBi, B5: 5.17dBi, B12: 3.17dBi, B13: 3.17dBi, B66: 2.17dBi

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.



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 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



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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 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	3.4 Vdc
	VN	3.8 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.
Debug board	Telit Communications S.p.A.	E248779	--

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	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



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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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Shenzhen Branch Testing & Calibration Laboratory

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6 Radio Spectrum Matter Test Results

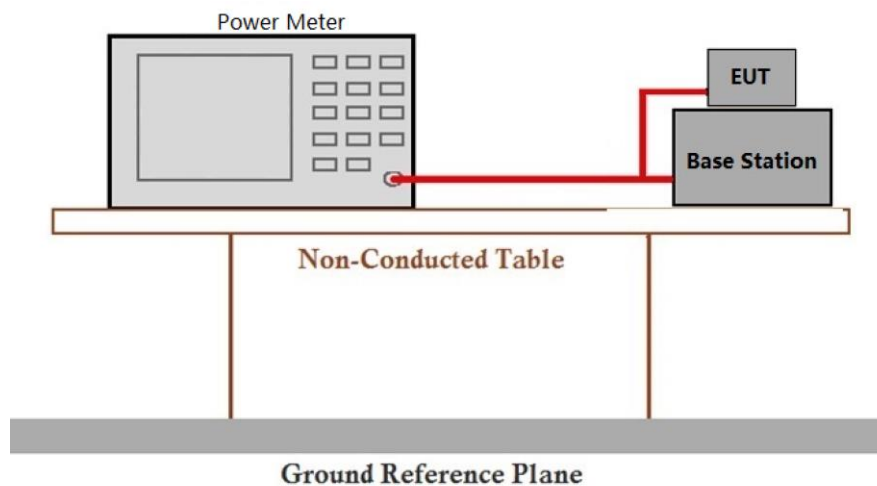
6.1 Effective (Isotropic) Radiated Output Power Data

Test Requirement: §2.1046, §22.913, §24.232, §27.50(b), §27.50(c), §27.50(d), §27.50(h)
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit:
 ERP ≤ 7W (LTE Band 5)
 EIRP ≤ 2W (LTE Band 2)
 ERP ≤ 3W (LTE Band 13)
 ERP ≤ 3W (LTE Band 12)
 EIRP ≤ 1W (LTE Band 4, 66)

6.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 22.5 °C Humidity: 50.5 % 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

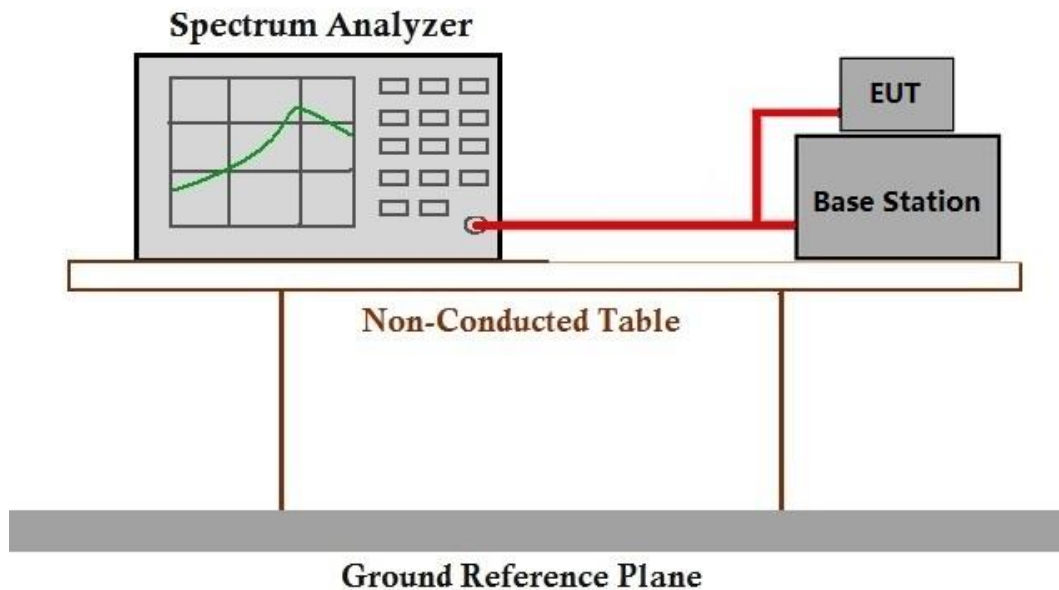
Test Requirement: \$22.913, \$24.232, \$27.50(d), \$27.50(d)
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: ≤13dB

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 50.5 % 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.

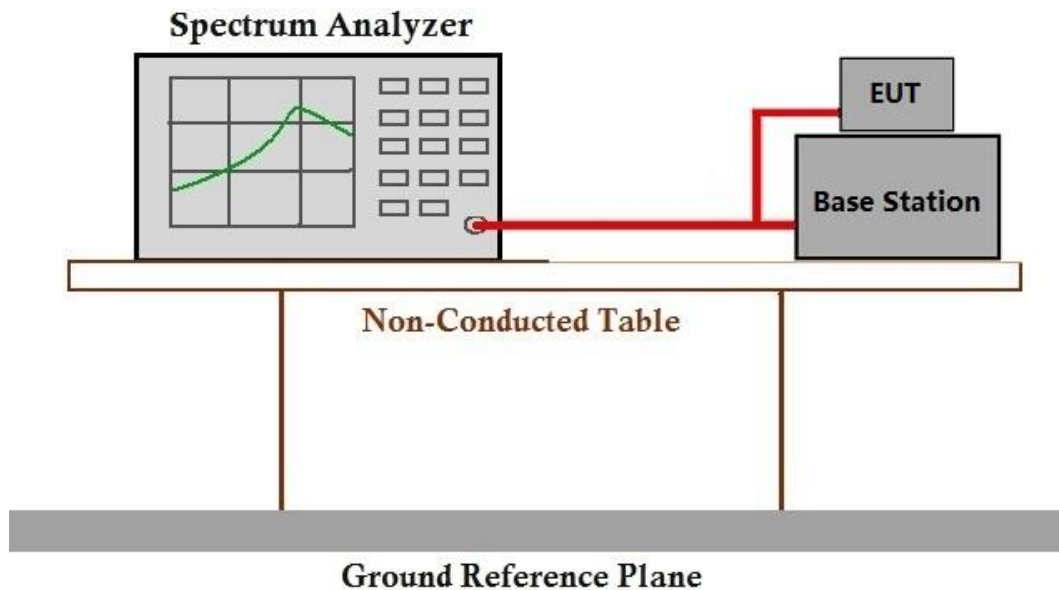
6.3 Bandwidth

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

6.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 22.5 °C Humidity: 50.5 % 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(g), §27.50(h), §27.50(m), §27.53(c)

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

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

For **Band 13**:

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;

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

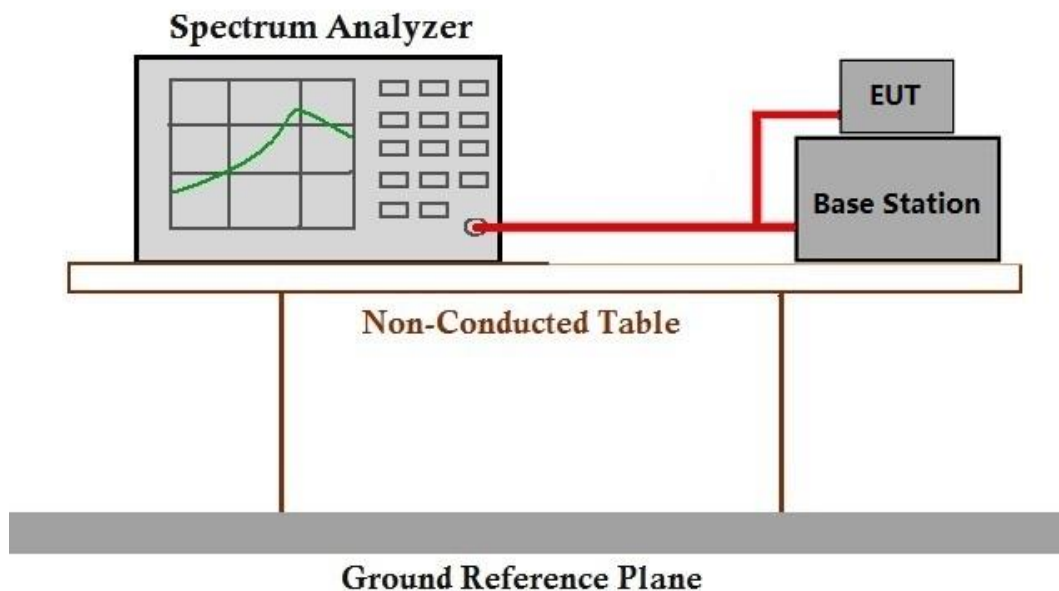
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 50.5 % 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, §24.238, §27.50(g), §27.50(h), §27.50(m), §27.53(c)

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

Limit: ≤ -13dBm (LTE Band2,4,5,12,66)

For **Band 13**:

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;

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

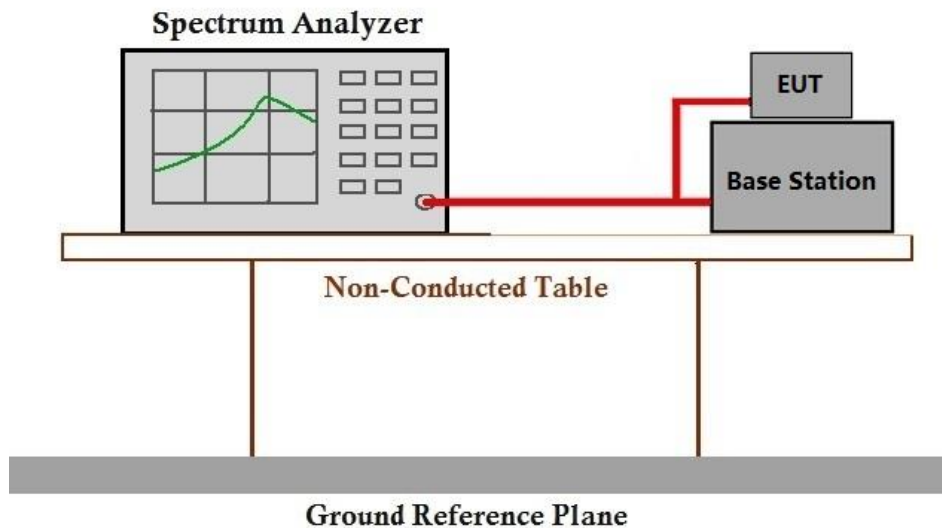
6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 50.5 % 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, §24.238, §27.50(g), §27.50(h), §27.50(m), §27.53(c)

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

Limit: ≤ -13dBm (**LTE Band2,4,5,12,66**)

For **Band 13**:

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;

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

6.6.1 E.U.T. Operation

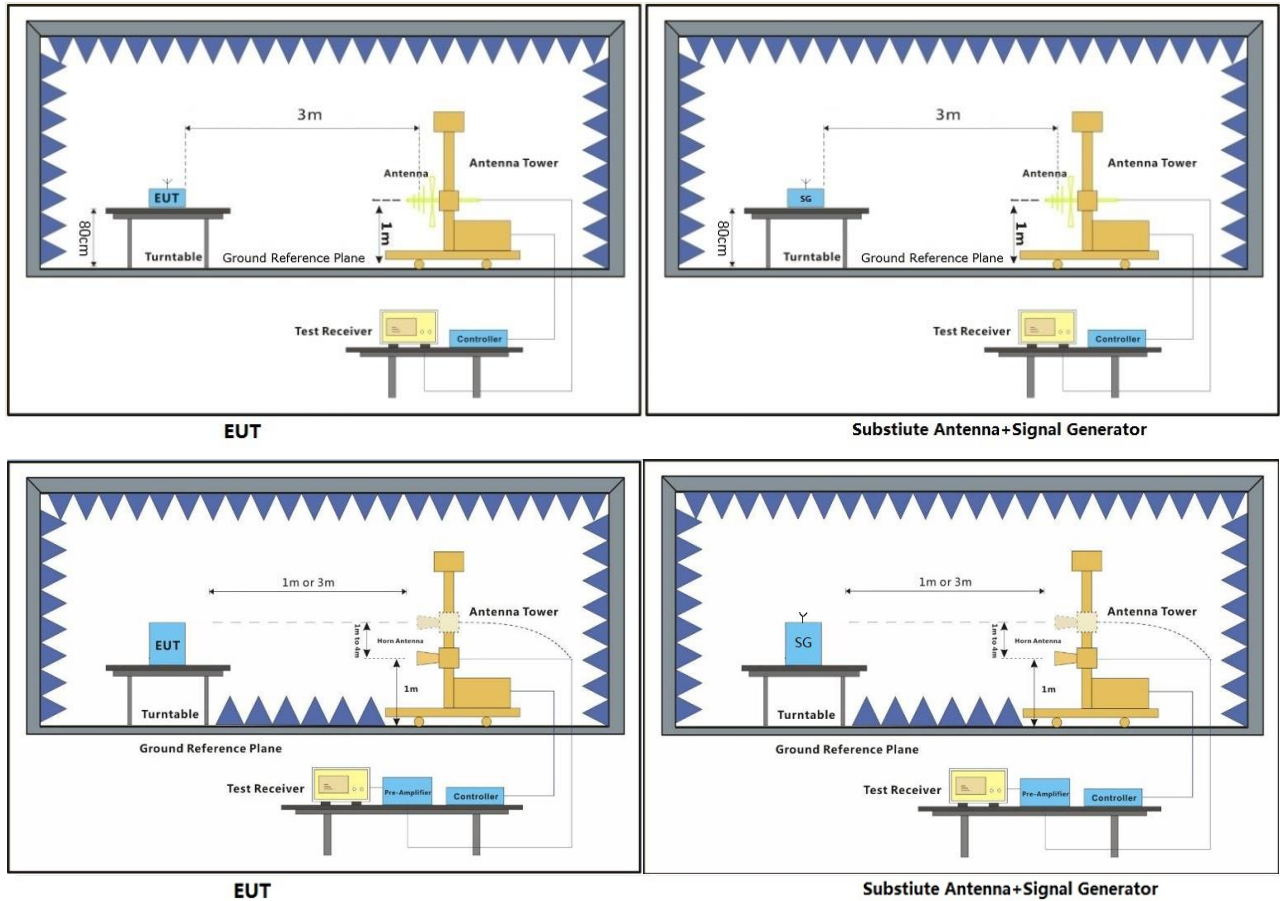
Operating Environment:

Temperature: 21.5 °C Humidity: 48.5 % RH Atmospheric Pressure: 1020 mbar

Test mode 32: TX mode_Keep the EUT in transmitting mode



6.6.2 Test Setup Diagram



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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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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
1388.708	-60.35	-13	-47.35	-63.6	1.92	5.17	Horizontal	Pass
8615.126	-49.95	-13	-36.95	-58.5	4.44	12.99	Horizontal	Pass
9587.228	-49.23	-13	-36.23	-57.56	4.87	13.2	Horizontal	Pass
2995.538	-54.94	-13	-41.94	-58.89	2.96	6.91	Vertical	Pass
9322.501	-49.03	-13	-36.03	-57.53	4.73	13.23	Vertical	Pass
12685.25	-49.88	-13	-36.88	-57.76	5.45	13.33	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
1309.737	-59.89	-13	-46.89	-62.7	1.86	4.67	Horizontal	Pass
8973.25	-49.99	-13	-36.99	-58.62	4.56	13.19	Horizontal	Pass
9490.104	-49.02	-13	-36.02	-57.44	4.82	13.24	Horizontal	Pass
2935.153	-54.69	-13	-41.69	-58.55	2.92	6.78	Vertical	Pass
9514.293	-48.88	-13	-35.88	-57.28	4.83	13.23	Vertical	Pass
11312.31	-49.88	-13	-36.88	-58.07	5.06	13.25	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
1260.67	-60.33	-13	-47.33	-62.86	1.83	4.36	Horizontal	Pass
8571.377	-49.6	-13	-36.6	-58.14	4.42	12.96	Horizontal	Pass
9514.293	-49.33	-13	-36.33	-57.73	4.83	13.23	Horizontal	Pass
3003.173	-55.44	-13	-42.44	-59.41	2.96	6.93	Vertical	Pass
9490.104	-49.24	-13	-36.24	-57.66	4.82	13.24	Vertical	Pass
12653.0	-50.33	-13	-37.33	-58.22	5.43	13.32	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
1219.635	-60.67	-13	-47.67	-62.97	1.8	4.1	Horizontal	Pass
8927.683	-50.27	-13	-37.27	-58.89	4.55	13.17	Horizontal	Pass
9490.104	-48.91	-13	-35.91	-57.33	4.82	13.24	Horizontal	Pass
2995.538	-55.73	-13	-42.73	-59.68	2.96	6.91	Vertical	Pass
9514.293	-48.64	-13	-35.64	-57.04	4.83	13.23	Vertical	Pass
11370.05	-49.98	-13	-36.98	-58.17	5.06	13.25	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
1385.177	-60.32	-13	-47.32	-63.55	1.92	5.15	Horizontal	Pass
8904.986	-50.23	-13	-37.23	-58.84	4.54	13.15	Horizontal	Pass
9393.966	-48.4	-13	-35.4	-56.86	4.77	13.23	Horizontal	Pass
2691.804	-53.32	-13	-40.32	-56.78	2.78	6.24	Vertical	Pass
9417.908	-49.11	-13	-36.11	-57.57	4.78	13.24	Vertical	Pass
11457.21	-49.27	-13	-36.27	-57.45	5.06	13.24	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
1267.104	-60.7	-13	-47.7	-63.27	1.83	4.4	Horizontal	Pass
8681.168	-50.39	-13	-37.39	-58.96	4.46	13.03	Horizontal	Pass
9514.293	-48.57	-13	-35.57	-56.97	4.83	13.23	Horizontal	Pass
2719.353	-55.68	-13	-42.68	-59.19	2.79	6.3	Vertical	Pass
9611.663	-48.76	-13	-35.76	-57.07	4.88	13.19	Vertical	Pass
11428.08	-49.56	-13	-36.56	-57.74	5.06	13.24	Vertical	Pass

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Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1350.362	-60.29	-13	-47.29	-63.33	1.89	4.93	Horizontal	Pass
8973.25	-49.78	-13	-36.78	-58.41	4.56	13.19	Horizontal	Pass
9441.913	-47.75	-13	-34.75	-56.2	4.79	13.24	Horizontal	Pass
2957.654	-55.14	-13	-42.14	-59.04	2.93	6.83	Vertical	Pass
9514.293	-48.77	-13	-35.77	-57.17	4.83	13.23	Vertical	Pass
11457.21	-49.77	-13	-36.77	-57.95	5.06	13.24	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
1374.639	-61.14	-13	-48.14	-64.32	1.91	5.09	Horizontal	Pass
5060.693	-50.48	-13	-37.48	-56.4	4.26	10.18	Horizontal	Pass
9417.908	-48.91	-13	-35.91	-57.37	4.78	13.24	Horizontal	Pass
2935.153	-55.69	-13	-42.69	-59.55	2.92	6.78	Vertical	Pass
9465.979	-48.7	-13	-35.7	-57.14	4.8	13.24	Vertical	Pass
11226.25	-49.78	-13	-36.78	-57.97	5.07	13.26	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
1350.362	-60.79	-13	-47.79	-63.83	1.89	4.93	Horizontal	Pass
8996.121	-49.84	-13	-36.84	-58.48	4.57	13.21	Horizontal	Pass
9275.16	-49.24	-13	-36.24	-57.76	4.71	13.23	Horizontal	Pass
2980.327	-55.57	-13	-42.57	-59.5	2.95	6.88	Vertical	Pass
9562.854	-48.98	-13	-35.98	-57.34	4.85	13.21	Vertical	Pass
10778.21	-49.87	-13	-36.87	-58.0	5.07	13.2	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
1225.86	-60.2	-13	-47.2	-62.54	1.8	4.14	Horizontal	Pass
8506.17	-49.78	-13	-36.78	-58.3	4.4	12.92	Horizontal	Pass
9514.293	-48.53	-13	-35.53	-56.93	4.83	13.23	Horizontal	Pass
2861.381	-55.04	-13	-42.04	-58.78	2.88	6.62	Vertical	Pass
9157.857	-49.03	-13	-36.03	-57.6	4.65	13.22	Vertical	Pass
12653.0	-50.49	-13	-37.49	-58.38	5.43	13.32	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
1461.238	-60.21	-13	-47.21	-63.87	1.97	5.63	Horizontal	Pass
8419.999	-50.26	-13	-37.26	-58.72	4.37	12.83	Horizontal	Pass
9441.913	-49.29	-13	-36.29	-57.74	4.79	13.24	Horizontal	Pass
2698.665	-54.53	-13	-41.53	-58.01	2.78	6.26	Vertical	Pass
9393.966	-48.82	-13	-35.82	-57.28	4.77	13.23	Vertical	Pass
10860.83	-50.41	-13	-37.41	-58.57	5.07	13.23	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
1309.737	-60.12	-13	-47.12	-62.93	1.86	4.67	Horizontal	Pass
8659.098	-50.32	-13	-37.32	-58.88	4.45	13.01	Horizontal	Pass
9514.293	-48.32	-13	-35.32	-56.72	4.83	13.23	Horizontal	Pass
2796.573	-55.03	-13	-42.03	-58.66	2.84	6.47	Vertical	Pass
9417.908	-49.24	-13	-36.24	-57.7	4.78	13.24	Vertical	Pass
10999.95	-49.44	-13	-36.44	-57.64	5.07	13.27	Vertical	Pass

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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
1371.145	-60.36	-13	-47.36	-63.51	1.91	5.06	Horizontal	Pass
8814.774	-50.33	-13	-37.33	-58.92	4.51	13.1	Horizontal	Pass
9490.104	-48.55	-13	-35.55	-56.97	4.82	13.24	Horizontal	Pass
2987.923	-54.89	-13	-41.89	-58.83	2.95	6.89	Vertical	Pass
9465.979	-49.2	-13	-36.2	-57.64	4.8	13.24	Vertical	Pass
11812.58	-49.88	-13	-36.88	-58.08	5.05	13.25	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
1198.095	-60.78	-13	-47.78	-62.97	1.78	3.97	Horizontal	Pass
8703.294	-50.15	-13	-37.15	-58.72	4.47	13.04	Horizontal	Pass
9370.083	-49.1	-13	-36.1	-57.57	4.76	13.23	Horizontal	Pass
2747.183	-54.92	-13	-41.92	-58.47	2.81	6.36	Vertical	Pass
9465.979	-48.95	-13	-35.95	-57.39	4.8	13.24	Vertical	Pass
12397.94	-50.51	-13	-37.51	-58.47	5.28	13.24	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
1198.095	-60.48	-13	-47.48	-62.67	1.78	3.97	Horizontal	Pass
5009.426	-50.58	-13	-37.58	-56.47	4.26	10.15	Horizontal	Pass
9251.58	-49.14	-13	-36.14	-57.67	4.7	13.23	Horizontal	Pass
2980.327	-54.89	-13	-41.89	-58.82	2.95	6.88	Vertical	Pass
9490.104	-49.34	-13	-36.34	-57.76	4.82	13.24	Vertical	Pass
10916.26	-49.7	-13	-36.7	-57.87	5.07	13.24	Vertical	Pass

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LTE Band 66-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
1424.511	-60.91	-13	-47.91	-64.36	1.95	5.4	Horizontal	Pass
8837.241	-49.91	-13	-36.91	-58.52	4.51	13.12	Horizontal	Pass
9562.854	-49.41	-13	-36.41	-57.77	4.85	13.21	Horizontal	Pass
2920.248	-55.26	-13	-42.26	-59.09	2.91	6.74	Vertical	Pass
9322.501	-48.98	-13	-35.98	-57.48	4.73	13.23	Vertical	Pass
11341.14	-50.06	-13	-37.06	-58.25	5.06	13.25	Vertical	Pass

LTE Band 66-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
1309.737	-59.7	-13	-46.7	-62.51	1.86	4.67	Horizontal	Pass
8615.126	-50.24	-13	-37.24	-58.79	4.44	12.99	Horizontal	Pass
9441.913	-49.1	-13	-36.1	-57.55	4.79	13.24	Horizontal	Pass
2942.635	-55.55	-13	-42.55	-59.41	2.93	6.79	Vertical	Pass
9490.104	-48.47	-13	-35.47	-56.89	4.82	13.24	Vertical	Pass
12717.59	-50.23	-13	-37.23	-58.11	5.47	13.35	Vertical	Pass

LTE Band 66-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
1340.089	-60.17	-13	-47.17	-63.16	1.88	4.87	Horizontal	Pass
8747.716	-50.41	-13	-37.41	-58.99	4.48	13.06	Horizontal	Pass
9322.501	-48.63	-13	-35.63	-57.13	4.73	13.23	Horizontal	Pass
2950.135	-55.01	-13	-42.01	-58.89	2.93	6.81	Vertical	Pass
9465.979	-48.34	-13	-35.34	-56.78	4.8	13.24	Vertical	Pass
11370.05	-50.75	-13	-37.75	-58.94	5.06	13.25	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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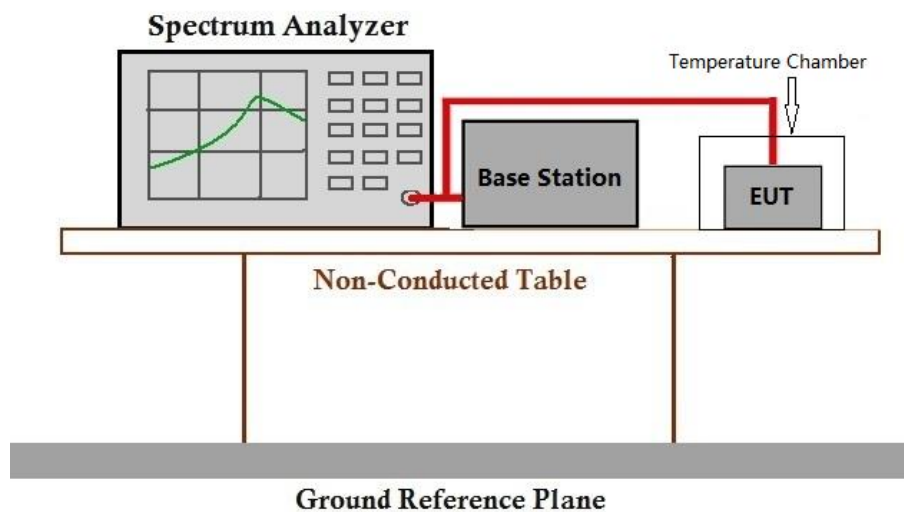
6.7 Frequency stability

Test Requirement: \$2.1055,\$22.355,\$24.235,\$27.54
 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: 22.5 °C Humidity: 50.5 % 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 SZCR2410003939MO

8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2410003939MO

- End of the Report -

