

TEST REPORT

Application No.: SZCR2303000836AT
Applicant: Leax Arkivator Telecom USA Inc.
Address of Applicant: 833 E Arapaho Rd Suite 203, Richardson, Texas 75081 United States
Manufacturer: Leax Arkivator Telecom USA Inc.
Address of Manufacturer: 833 E Arapaho Rd Suite 203, Richardson, Texas 75081 United States
Factory: Leax Arkivator Telecom USA Inc.
Address of Factory: 833 E Arapaho Rd Suite 203, Richardson, Texas 75081 United States
Equipment Under Test (EUT):
EUT Name: TD LTE Base Station
Model No.: LBS8529
FCC ID: 2AVFNLBS8529
Standard(s) : 47 CFR Part 2
47 CFR Part 96 subpart E
Date of Receipt: 2023-03-28
Date of Test: 2023-03-29 to 2023-05-04
Date of Issue: 2023-05-18

| | |
|---------------------|-------------|
| Test Result: | Pass |
|---------------------|-------------|

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

Keny Xu

Keny Xu
EMC Laboratory Manager



| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2023-05-18 | | Original |
| | | | | |
| | | | | |

| | | | |
|---------------------------------|--|-------------------------------------|--|
| Authorized for issue by: | | | |
| | | <i>Benson Wang</i> | |
| | | Benson Wang/Project Engineer | |
| | | <i>Eric Fu</i> | |
| | | Eric Fu/Reviewer | |



2 Test Summary

| Test Item | FCC Rule No. | Requirements | Verdict |
|---|----------------------|---|---------|
| Effective (Isotropic) Radiated Output Power Data & Maximum Power Spectral Density | §2.1046 §96.41(b) | EIRP≤ 47dBm/10MHz(LTE Band 48) PSD≤ 37dBm/MHz(LTE Band 48) | PASS |
| Peak-Average Ratio | §96.41(g) | ≤13dB | PASS |
| Modulation Characteristics | §2.1047 | Digital modulation | PASS |
| Bandwidth | §2.1049(h) | OBW: No limit EBW: No limit | PASS |
| Band Edge Compliance | §2.1051 §96.41(e) | Refer to clause 6.4 for LTE Band48 | PASS |
| Spurious emissions at antenna terminals | §2.1051 §96.41(e) | Refer to clause 6.5 for LTE Band48 | PASS |
| Field strength of spurious radiation | §2.1051 §96.41(e) | Refer to clause 6.6 for LTE Band48 | PASS |
| Frequency stability | §2.1055 | ≤ ±2.5ppm. | PASS |



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4 General Information

4.1 Details of E.U.T.

| | |
|---|--|
| Power supply: | Adapter Model: HEP-480-54 INPUT: 100-240V 5.5A-2.2A 50/60Hz OUTPUT: DC54V 8.9A |
| Cable: | DC adapter: INPUT: DC48V OUTPUT: DC13V 4A GND Cable: 480cm unshielded Adapter Cable: 190cm unshielded DC Adapter cable: 87cm unshielded + 20cm unshielded |
| EUT Type: | CBSD |
| Category of EUT: | Category B |
| LTE Operation Frequency Band: | Band 48 (3550-3700MHz) |
| Test Mode: | E-TM1.1; E-TM3.2; E-TM3.1; |
| Modulation Type: | QPSK, 16QAM, 64QAM |
| Bandwidth: | 5MHz; 10MHz; 15MHz; 20MHz |
| Transmission (TX) and Receiving (RX) Antenna Ports: | TX port: 2 |
| MIMO supported | 2*2 UL |
| Antenna Type: | N-Type connector for external high gain antenna |
| Antenna Gain: | 16.5dBi |

Note:

(1)The antenna gain value is provided by the customer. The test lab will not be responsible for wrong test result due to incorrect information about antenna gain values.



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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 48 | 5 | 3552.5 | 3625.0 | 3697.5 |
| | 10 | 3555.0 | 3625.0 | 3695.0 |
| | 15 | 3557.5 | 3625.0 | 3692.5 |
| | 20 | 3560.0 | 3625.0 | 3690.0 |

4.3 Test Environment

| Environment Parameter | Selected Values During Tests | |
|-----------------------|------------------------------|----------|
| Relative Humidity | 52% | |
| Atmospheric Pressure: | 1020Pa | |
| Temperature: | TL | -30°C |
| | TN | +20°C |
| | TH | +50°C |
| Voltage: | VL | AC 102 V |
| | VN | AC 120 V |
| | VH | AC 138V |

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

The EUT has been tested independent unit.



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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

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:

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



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5 Equipment List

| RF test system | | | | | |
|---|------------------------------|-----------|---------------|--------------------------|----------------------------|
| Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date (yyyy-mm-dd) | Cal. Due date (yyyy-mm-dd) |
| Shielding Room | SAEMC | MSR733 | SEM001-09 | 2022-05-14 | 2025-05-13 |
| MXA Signal Analyzer | KEYSIGHT | N9020B | SEM004-17 | 2023-03-20 | 2024-03-14 |
| Mobile Communications DC Source | Agilent | 66319D | SEM011-12 | 2022-05-07 | 2023-05-06 |
| Manual Step Attenuator | KEYSIGHT | 8494B | SEM021-05 | 2022-04-07 2023-04-06 | 2023-04-06 2024-04-05 |
| Manual Step Attenuator | KEYSIGHT | 8496B | SEM021-06 | 2022-04-07 2023-04-06 | 2023-04-06 2024-04-05 |
| Power Sensor | KEYSIGHT | U2021XA | SEM009-15 | 2022-04-07 2023-04-06 | 2023-04-06 2024-04-05 |
| Programmable Temperature & Humidity Chamber | Votsch Industrietechnik GmbH | VT 4002 | SEM002-15 | 2022-04-07 2023-04-06 | 2023-04-06 2024-04-05 |
| Coaxial Cable | SGS | N/A | SEM031-01 | 2022-07-08 | 2023-07-07 |

| RE in Chamber | | | | | |
|---|--------------------------|------------|---------------|--------------------------|----------------------------|
| Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date (yyyy-mm-dd) | Cal. Due date (yyyy-mm-dd) |
| 3m Semi-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2022-04-02 | 2025-04-01 |
| EXA Signal Analyzer (10Hz-44GHz) | Agilent Technologies Inc | N9010A | SEM004-12 | 2022-04-07 2023-04-06 | 2023-04-06 2024-04-05 |
| BiConiLog Antenna (26-3000MHz) | ETS-Lindgren | 3142C | SEM003-01 | 2021-09-17 | 2023-09-16 |
| Horn Antenna (800MHz-18GHz) | Rohde & Schwarz | HF907 | SEM003-07 | 2022-07-24 | 2024-07-23 |
| Horn Antenna (15-40GHz) | Schwarzbeck | BBHA 9170 | SEM003-15 | 2022-08-10 | 2024-08-09 |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA 9120D | SEM003-32 | 2021-09-26 | 2024-09-25 |
| Amplifier (0.1-1300MHz) | HP | 8447D | SEM005-02 | 2022-09-15 | 2023-09-14 |
| Microwave System Amplifier(0.5-26.5GHz) | Agilent | 83017A | SEM005-25 | 2022-09-21 | 2023-09-20 |



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|------------------------------|------------------------------------|-----------------|-----------|------------|------------|
| Pre-amplifier (26-40GHz) | Compliance Directions Systems Inc. | PAP-2640-50 | SEM005-08 | 2023-03-21 | 2024-03-20 |
| Substitution Antenna | Rohde & Schwarz | HF907 | SEM003-06 | 2022-08-07 | 2024-08-06 |
| Substitution Antenna | Schwarzbeck | BBHA 9170 | SEM003-15 | 2022-08-10 | 2024-08-09 |
| Signal Generator(9kHz-40GHz) | N5173B | MY53270267 | Agilent | 2022-07-12 | 2023-07-11 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM026-06 | 2022-07-08 | 2023-07-07 |

| RE in Chamber | | | | | |
|------------------------------|----------------------|-----------------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Loop Antenna | ETS-Lindgren | 6502 | SEM003-08 | 2021-11-30 | 2023-11-29 |
| 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEM001-01 | 2020-07-19 | 2023-07-18 |
| MXE EMI Receiver | Agilent Technologies | N9038A | SEM004-15 | 2022-10-20 | 2023-10-19 |
| BiConiLog Antenna | ETS-LINDGREN | 3142C | SEM003-01 | 2021-09-17 | 2023-09-16 |
| Substitution Antenna | Schwarzbeck | VULB9163 | SEM003-05 | 2021-09-17 | 2023-09-16 |
| Pre-Amplifier | Agilent Technologies | 8447D | SEM005-01 | 2023-03-20 | 2024-03-19 |
| Signal Generator(9kHz-40GHz) | N5173B | MY53270267 | Agilent | 2022-07-12 | 2023-07-11 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM025-01 | 2022-07-08 | 2023-07-07 |

| General used equipment | | | | | |
|---------------------------------|---|-----------|---------------|------------|--------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Humidity/ Temperature Indicator | Mingle | N/A | SEM002-08 | 2022-09-04 | 2023-09-03 |
| Humidity/ Temperature Indicator | Anymetre | TH101B | SEM002-09 | 2022-09-04 | 2023-09-03 |
| Barometer | Changchun Meteorological Industry Factory | DYM3 | SEM002-01 | 2023-03-20 | 2024-03-19 |



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6 Radio Spectrum Matter Test Results

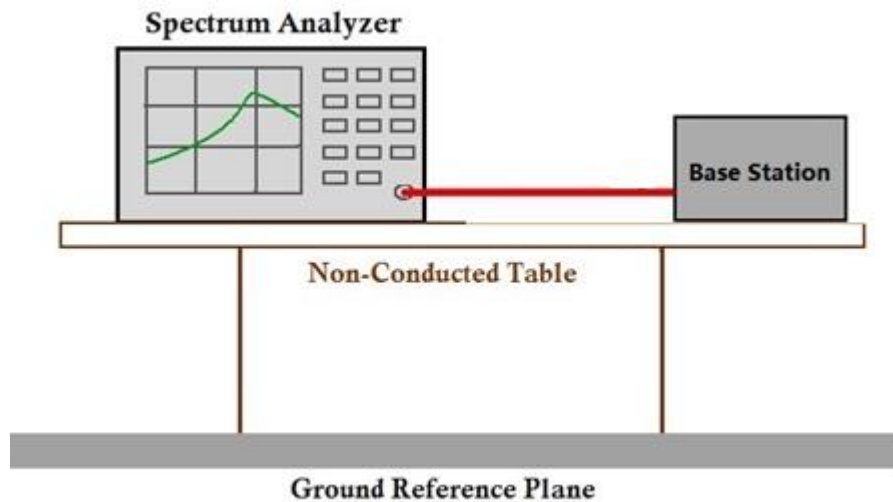
6.1 Effective (Isotropic) Radiated Output Power & Maximum Power Spectral Density

Test Requirement: §2.1046, §96.41(b)
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: EIRP≤47dBm/10MHz(LTE Band 48)
 PSD≤37dBm/MHz(LTE Band 48)

6.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar
 Test mode 01: Tx mode, Keep the EUT in transmitting mode.

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

Please refer to Appendix for Effective (Isotropic) Radiated Output Power Data & Maximum Power Spectral Density.



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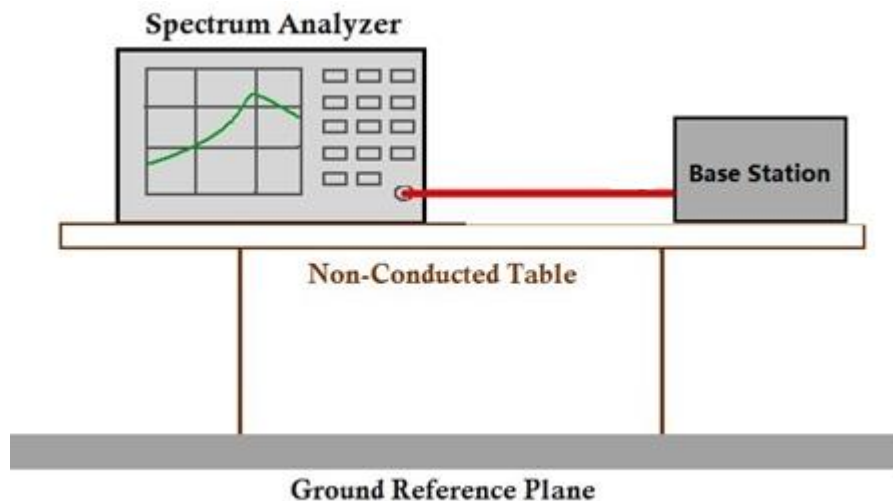
6.2 Peak-Average Ratio

Test Requirement: §96.41(g)
Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
Limit: ≤13dB

6.2.1 E.U.T. Operation

Operating Environment:
Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar
Test mode 01: Tx mode, Keep the EUT in transmitting mode.

6.2.2 Test Setup Diagram



6.2.3 Measurement Data

Please refer to Appendix for Peak-Average Ratio.



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6.3 Bandwidth

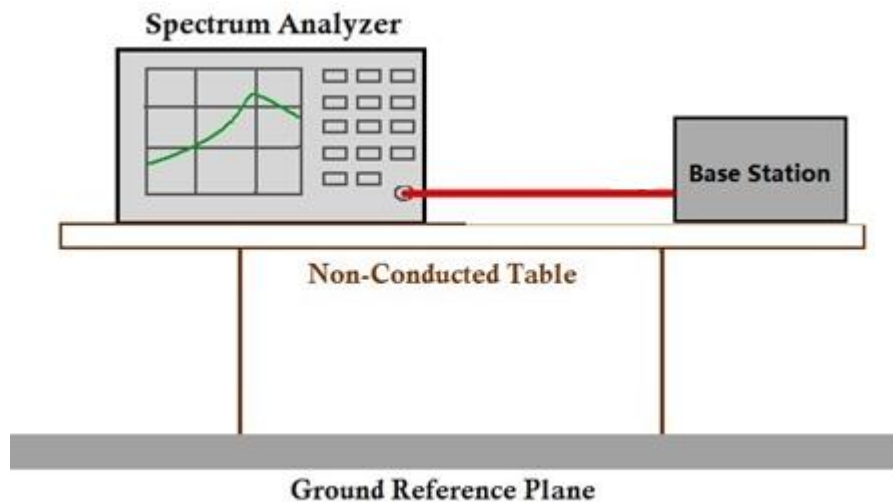
Test Requirement: §2.1049(h)
Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
Limit: OBW: No limit
EBW: No limit

6.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar
Test mode 01: Tx mode, Keep the EUT in transmitting mode.

6.3.2 Test Setup Diagram



6.3.3 Measurement Data

Please refer to Appendix for Bandwidth.



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6.4 Band Edge Compliance

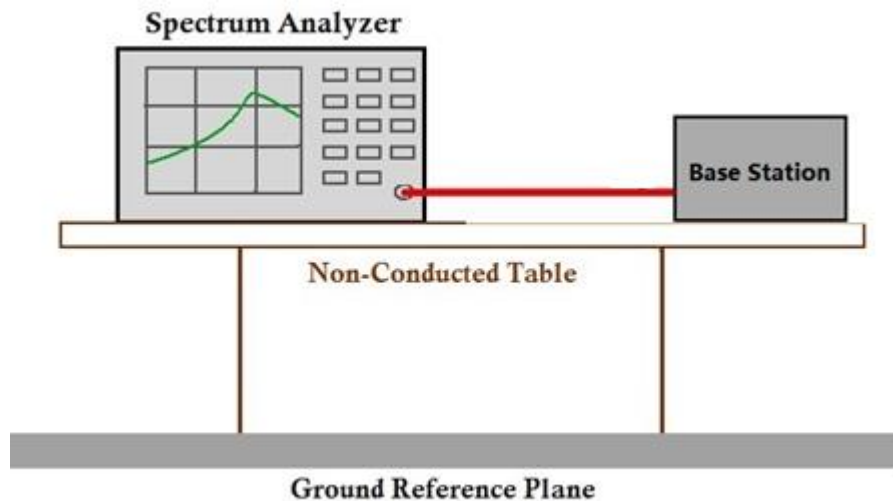
Test Requirement: §2.1051, §96.41(e),
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: For **Band48**:

- 1) The conducted power of any CBSD emission outside the fundamental emission bandwidth (whether the emission is inside or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any CBSD emission shall not exceed -25 dBm/MHz.
- 2) The conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

6.4.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar
 Test mode 01: Tx mode, Keep the EUT in transmitting mode.

6.4.2 Test Setup Diagram



6.4.3 Measurement Data

Please refer to Appendix for Spurious emissions at antenna terminals & Band Edge.



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6.5 Spurious emissions at antenna terminals

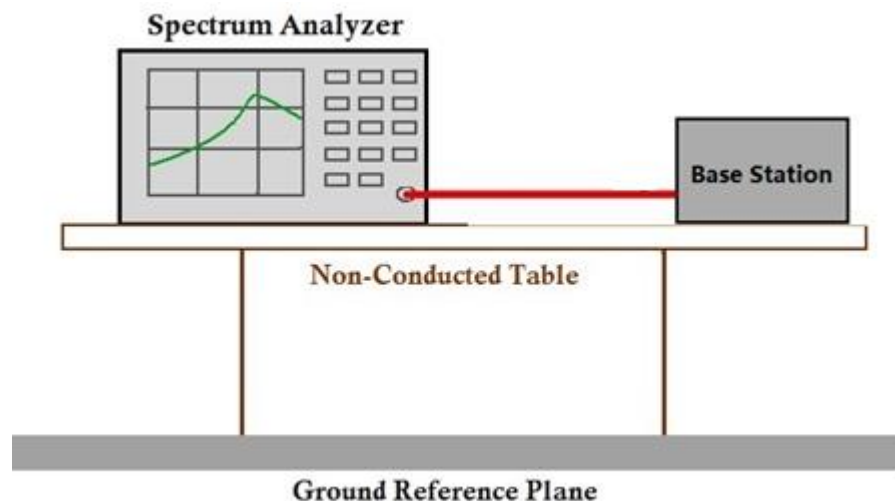
Test Requirement: §2.1051 ,§96.41(e)
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: For **Band48**:

- 1) The conducted power of any CBSD emission outside the fundamental emission bandwidth (whether the emission is inside or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any CBSD emission shall not exceed -25 dBm/MHz.
- 2) The conducted power of emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the conducted power of emissions below 3530 MHz or above 3720 MHz shall not exceed -40 dBm/MHz.

6.5.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar
 Test mode 01: Tx mode, Keep the EUT in transmitting mode.

6.5.2 Test Setup Diagram



6.5.3 Measurement Data

Please refer to Appendix for Spurious emissions at antenna terminals & Band Edge.



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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

6.6 Field strength of spurious radiation

Test Requirement: §2.1051, §96.41(e)
Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
Limit: For **Band48**:

- 1) Emission outside the fundamental emission bandwidth (whether the emission is inside or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the emission shall not exceed -25 dBm/MHz.
- 2) Emissions below 3540 MHz or above 3710 MHz shall not exceed -25 dBm/MHz, and the emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

6.6.1 E.U.T. Operation

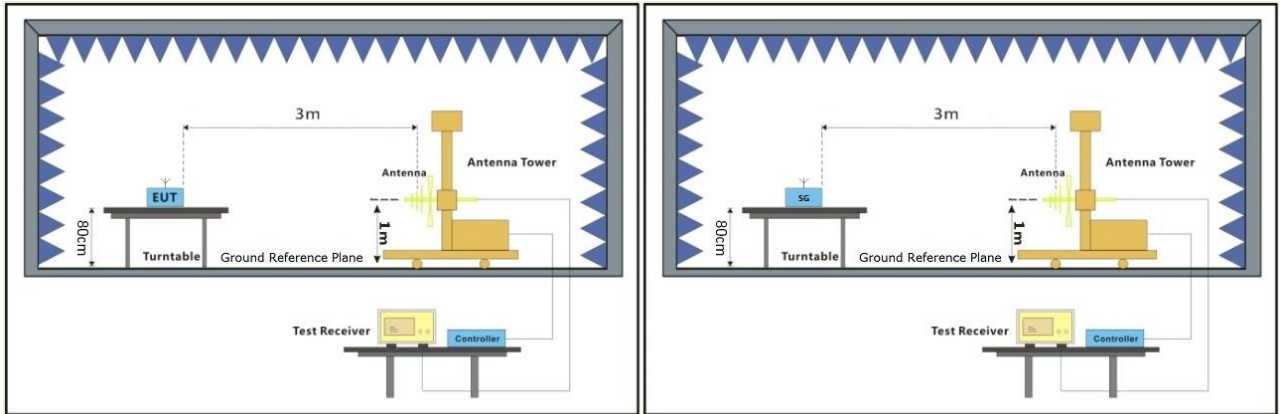
Operating Environment:
Temperature: 18.5 °C Humidity: 39.5 % RH Atmospheric Pressure: 1020 mbar
Test mode 01: Tx mode, Keep the EUT in transmitting mode.



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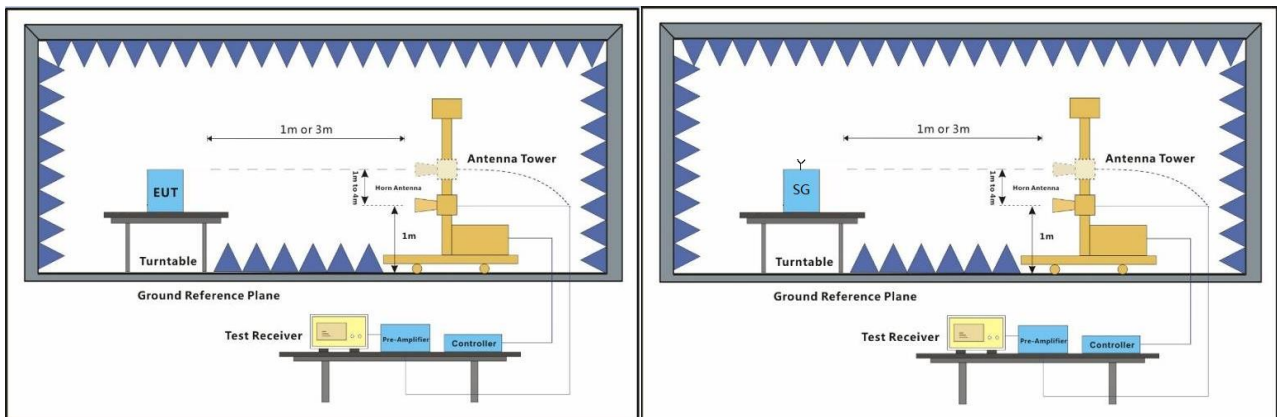
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6.6.2 Test Setup Diagram



EUT

Substiute Antenna+Signal Generator



EUT

Substiute Antenna+Signal Generator



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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.



TM1.1 5MHz

| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
|-----------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| 7100.5 | -49.38 | -40 | -9.38 | -61.28 | 1 | 12.9 | Horizontal | Pass |
| 10650.75 | -45.4 | -40 | -5.4 | -57.41 | 1.49 | 13.5 | Horizontal | Pass |
| 14201 | -44.53 | -40 | -4.53 | -56.46 | 1.67 | 13.6 | Horizontal | Pass |
| 7100.5 | -48.71 | -40 | -8.71 | -60.61 | 1 | 12.9 | Vertical | Pass |
| 10650.75 | -45.44 | -40 | -5.44 | -57.45 | 1.49 | 13.5 | Vertical | Pass |
| 14201 | -43.75 | -40 | -3.75 | -55.68 | 1.67 | 13.6 | Vertical | Pass |

TM1.1 10MHz

| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
|-----------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| 7245.5 | -48.76 | -40 | -8.76 | -60.66 | 1 | 12.9 | Horizontal | Pass |
| 10868.25 | -44.72 | -40 | -4.72 | -56.73 | 1.49 | 13.5 | Horizontal | Pass |
| 14491 | -43.41 | -40 | -3.41 | -55.34 | 1.67 | 13.6 | Horizontal | Pass |
| 7245.5 | -49.35 | -40 | -9.35 | -61.25 | 1 | 12.9 | Vertical | Pass |
| 10868.25 | -44.75 | -40 | -4.75 | -56.76 | 1.49 | 13.5 | Vertical | Pass |
| 14491 | -43.89 | -40 | -3.89 | -55.82 | 1.67 | 13.6 | Vertical | Pass |

TM1.1 15MHz

| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
|-----------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| 7390.5 | -49.03 | -40 | -9.03 | -60.93 | 1 | 12.9 | Horizontal | Pass |
| 11085.75 | -45.84 | -40 | -5.84 | -57.85 | 1.59 | 13.6 | Horizontal | Pass |
| 14781 | -43.91 | -40 | -3.91 | -54.94 | 1.37 | 12.4 | Horizontal | Pass |
| 7390.5 | -48.48 | -40 | -8.48 | -60.38 | 1 | 12.9 | Vertical | Pass |
| 11085.75 | -44.57 | -40 | -4.57 | -56.58 | 1.59 | 13.6 | Vertical | Pass |
| 14781 | -43.29 | -40 | -3.29 | -54.32 | 1.37 | 12.4 | Vertical | Pass |

TM1.1 20MHz

| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
|-----------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| 7101 | -49.03 | -40 | -9.03 | -60.93 | 1 | 12.9 | Horizontal | Pass |
| 10651.5 | -45.79 | -40 | -5.79 | -57.8 | 1.49 | 13.5 | Horizontal | Pass |
| 14202 | -43.88 | -40 | -3.88 | -55.81 | 1.67 | 13.6 | Horizontal | Pass |
| 7101 | -48.6 | -40 | -8.6 | -60.5 | 1 | 12.9 | Vertical | Pass |
| 10651.5 | -45.21 | -40 | -5.21 | -57.22 | 1.49 | 13.5 | Vertical | Pass |
| 14202 | -44.7 | -40 | -4.7 | -56.63 | 1.67 | 13.6 | Vertical | Pass |



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TM3.1 5MHz

| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
|-----------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| 7241 | -50.23 | -40 | -10.23 | -62.13 | 1 | 12.9 | Horizontal | Pass |
| 10861.5 | -44.77 | -40 | -4.77 | -56.78 | 1.49 | 13.5 | Horizontal | Pass |
| 14482 | -43.1 | -40 | -3.1 | -55.03 | 1.67 | 13.6 | Horizontal | Pass |
| 7241 | -49.89 | -40 | -9.89 | -61.79 | 1 | 12.9 | Vertical | Pass |
| 10861.5 | -44.62 | -40 | -4.62 | -56.63 | 1.49 | 13.5 | Vertical | Pass |
| 14482 | -44.17 | -40 | -4.17 | -56.1 | 1.67 | 13.6 | Vertical | Pass |

TM3.1 10MHz

| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
|-----------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| 7381 | -48.94 | -40 | -8.94 | -60.84 | 1 | 12.9 | Horizontal | Pass |
| 11071.5 | -45.12 | -40 | -5.12 | -57.13 | 1.59 | 13.6 | Horizontal | Pass |
| 14762 | -43.35 | -40 | -3.35 | -54.38 | 1.37 | 12.4 | Horizontal | Pass |
| 7381 | -48.81 | -40 | -8.81 | -60.71 | 1 | 12.9 | Vertical | Pass |
| 11071.5 | -45.51 | -40 | -5.51 | -57.52 | 1.59 | 13.6 | Vertical | Pass |
| 14762 | -44.08 | -40 | -4.08 | -55.11 | 1.37 | 12.4 | Vertical | Pass |

TM3.1 15MHz

| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
|-----------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| 7101.5 | -48.66 | -40 | -8.66 | -60.56 | 1 | 12.9 | Horizontal | Pass |
| 10652.25 | -45.56 | -40 | -5.56 | -57.57 | 1.49 | 13.5 | Horizontal | Pass |
| 14203 | -44.03 | -40 | -4.03 | -55.96 | 1.67 | 13.6 | Horizontal | Pass |
| 7101.5 | -49.53 | -40 | -9.53 | -61.43 | 1 | 12.9 | Vertical | Pass |
| 10652.25 | -45.21 | -40 | -5.21 | -57.22 | 1.49 | 13.5 | Vertical | Pass |
| 14203 | -43.96 | -40 | -3.96 | -55.89 | 1.67 | 13.6 | Vertical | Pass |

TM3.1 20MHz

| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
|-----------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| 7236.5 | -49.87 | -40 | -9.87 | -61.77 | 1 | 12.9 | Horizontal | Pass |
| 10854.75 | -45.28 | -40 | -5.28 | -57.29 | 1.49 | 13.5 | Horizontal | Pass |
| 14473 | -43.74 | -40 | -3.74 | -55.67 | 1.67 | 13.6 | Horizontal | Pass |
| 7236.5 | -49.69 | -40 | -9.69 | -61.59 | 1 | 12.9 | Vertical | Pass |
| 10854.75 | -45.39 | -40 | -5.39 | -57.4 | 1.49 | 13.5 | Vertical | Pass |
| 14473 | -43.29 | -40 | -3.29 | -55.22 | 1.67 | 13.6 | Vertical | Pass |



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TM3.2 5MHz

| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
|-----------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| 7371.5 | -48.39 | -40 | -8.39 | -60.29 | 1 | 12.9 | Horizontal | Pass |
| 11057.25 | -45.28 | -40 | -5.28 | -57.29 | 1.59 | 13.6 | Horizontal | Pass |
| 14743 | -43.5 | -40 | -3.5 | -54.53 | 1.37 | 12.4 | Horizontal | Pass |
| 7371.5 | -49.57 | -40 | -9.57 | -61.47 | 1 | 12.9 | Vertical | Pass |
| 11057.25 | -45.33 | -40 | -5.33 | -57.34 | 1.59 | 13.6 | Vertical | Pass |
| 14743 | -43.81 | -40 | -3.81 | -54.84 | 1.37 | 12.4 | Vertical | Pass |

TM3.2 10MHz

| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
|-----------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| 7102 | -49.36 | -40 | -9.36 | -61.26 | 1 | 12.9 | Horizontal | Pass |
| 10653 | -45.93 | -40 | -5.93 | -57.94 | 1.49 | 13.5 | Horizontal | Pass |
| 14204 | -43.61 | -40 | -3.61 | -55.54 | 1.67 | 13.6 | Horizontal | Pass |
| 7102 | -49.05 | -40 | -9.05 | -60.95 | 1 | 12.9 | Vertical | Pass |
| 10653 | -46.01 | -40 | -6.01 | -58.02 | 1.49 | 13.5 | Vertical | Pass |
| 14204 | -44.41 | -40 | -4.41 | -56.34 | 1.67 | 13.6 | Vertical | Pass |

TM3.2 15MHz

| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
|-----------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| 7232 | -49.58 | -40 | -9.58 | -61.48 | 1 | 12.9 | Horizontal | Pass |
| 10848 | -45.4 | -40 | -5.4 | -57.41 | 1.49 | 13.5 | Horizontal | Pass |
| 14464 | -43.1 | -40 | -3.1 | -55.03 | 1.67 | 13.6 | Horizontal | Pass |
| 7232 | -49.42 | -40 | -9.42 | -61.32 | 1 | 12.9 | Vertical | Pass |
| 10848 | -45.81 | -40 | -5.81 | -57.82 | 1.49 | 13.5 | Vertical | Pass |
| 14464 | -43.38 | -40 | -3.38 | -55.31 | 1.67 | 13.6 | Vertical | Pass |

TM3.2 20MHz

| Frequency (MHz) | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
|-----------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| 7362 | -49.29 | -40 | -9.29 | -61.19 | 1 | 12.9 | Horizontal | Pass |
| 11043 | -45.18 | -40 | -5.18 | -57.19 | 1.59 | 13.6 | Horizontal | Pass |
| 14724 | -43.58 | -40 | -3.58 | -54.61 | 1.37 | 12.4 | Horizontal | Pass |
| 7362 | -48.87 | -40 | -8.87 | -60.77 | 1 | 12.9 | Vertical | Pass |
| 11043 | -45.28 | -40 | -5.28 | -57.29 | 1.59 | 13.6 | Vertical | Pass |
| 14724 | -43.51 | -40 | -3.51 | -54.54 | 1.37 | 12.4 | Vertical | Pass |



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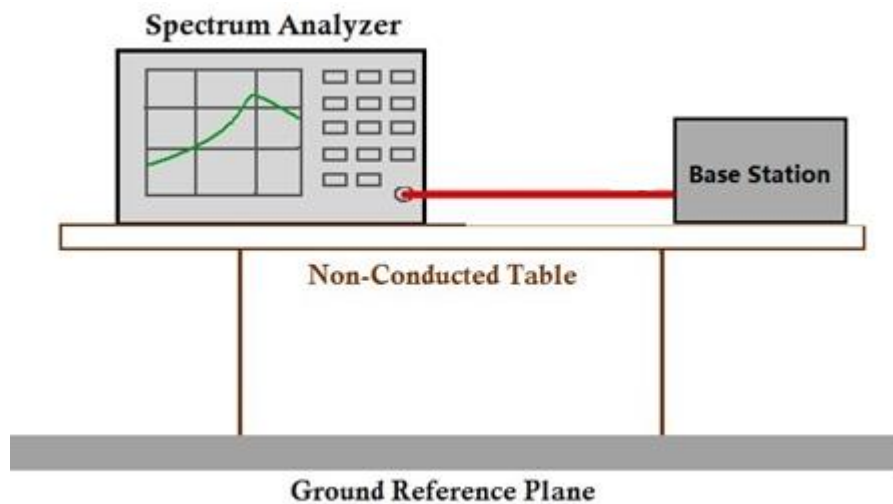
6.7 Frequency stability

Test Requirement: §2.1055
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: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar
Test mode 01: Tx mode, Keep the EUT in transmitting mode.

6.7.2 Test Setup Diagram



6.7.3 Measurement Data

Please refer to Appendix for Frequency stability.



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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

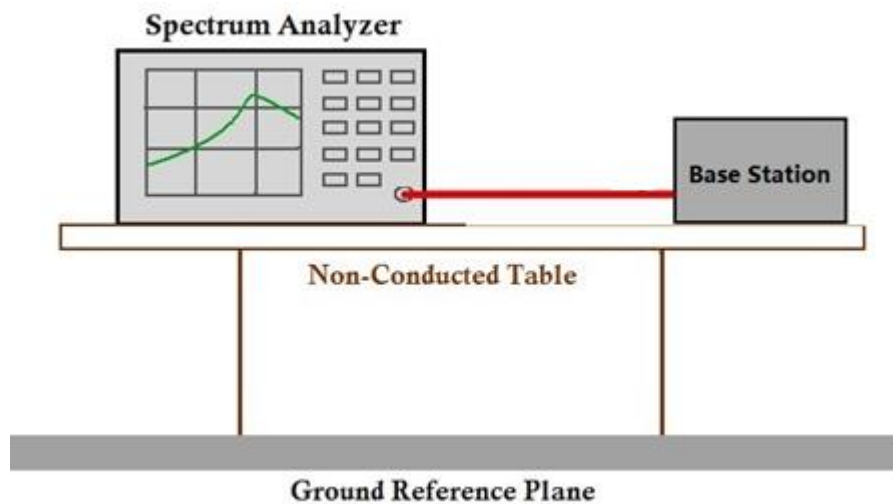
6.8 Modulation Characteristics

Test Requirement: §2.1047
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: Digital modulation

6.8.1 E.U.T. Operation

Operating Environment:
 Temperature: 21.5 °C Humidity: 53.5 % RH Atmospheric Pressure: 1020 mbar
 Test mode 01: Tx mode, Keep the EUT in transmitting mode.

6.8.2 Test Setup Diagram



6.8.3 Measurement Data

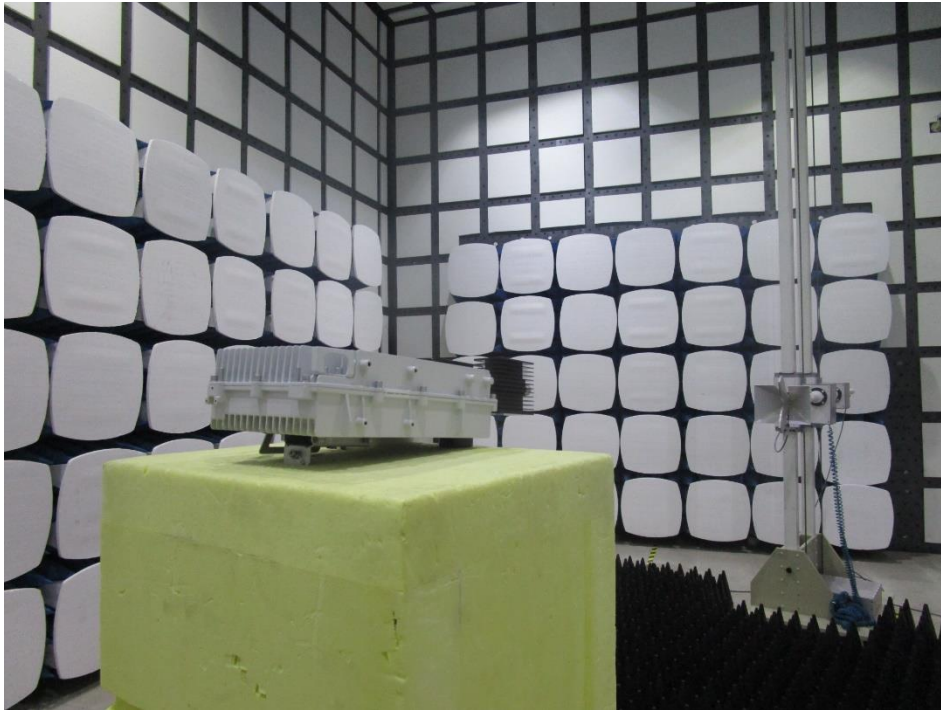
Pass, it's a digital modulation device.



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7 Test Setup Photo



8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2303000836AT

- End of the Report -



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