

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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250400165806

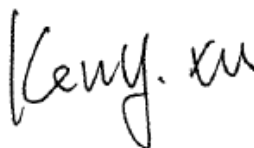
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## TEST REPORT

**Application No.:** SZCR2504001658AT  
**Applicant:** Vanstone Electronic (Beijing) Co., Ltd.  
**Address of Applicant:** 3F No.2 Building, Aisino Corporation Park 18A, Xingshikou Road, Haidian District, Beijing, China 100195  
**Manufacturer:** Vanstone Electronic (Beijing) Co., Ltd.  
**Address of Manufacturer:** 3F No.2 Building, Aisino Corporation Park 18A, Xingshikou Road, Haidian District, Beijing, China 100195  
**Equipment Under Test (EUT):**  
**EUT Name:** Android MiniPOS Terminal  
**Model No.:** A80  
**Trade Mark:**   
**FCC ID:** OWL-A80-B  
**Standard(s) :** 47 CFR Part 2  
47 CFR Part 22  
47 CFR Part 24  
**Date of Receipt:** 2025-04-27  
**Date of Test:** 2025-04-28 to 2025-06-06  
**Date of Issue:** 2025-06-11

|                     |              |
|---------------------|--------------|
| <b>Test Result:</b> | <b>Pass*</b> |
|---------------------|--------------|

\* 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   |
| 01              |         | 2025-06-11 |          | 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 Power Output Data | §2.1046,<br>§22.913,<br>§24.232 | ERP≤7W(GSM850)<br>EIRP≤2W(PCS1900)                                                       | PASS    |
| Peak-Average Ratio                               | §24.232                         | ≤13dB                                                                                    | PASS    |
| Bandwidth                                        | §2.1049(h)                      | OBW: No limit<br>EBW: No limit                                                           | PASS    |
| Band Edge Compliance                             | §2.1051,<br>§22.917,<br>§24.238 | ≤ -13dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block. | PASS    |
| Spurious emissions at antenna terminals          | §2.1051,<br>§22.917,<br>§24.238 | ≤ -13dBm                                                                                 | PASS    |
| Field strength of spurious radiation             | §2.1051,<br>§22.917,<br>§24.238 | ≤ -13dBm                                                                                 | PASS    |
| Frequency stability                              | §2.1055,<br>§22.355,<br>§24.235 | ≤ ±2.5ppm.                                                                               | PASS    |



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## 4 General Information

### 4.1 Details of E.U.T.

|                                     |                                                                                                                                                                                                                                                |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power supply:                       | DC3.85V by li-ion battery(3000mAh)<br>Battery M/N:BT-801<br>Battery Manufacturer:Hunan Gaoyuan Battery Co.,LTD<br>Recharged by AC/DC Power Adapter<br>Adapter M/N: SW-0983<br>Adapter Input:AC100-240V, 50/60Hz,0.5A<br>Adapter Output:DC5V/2A |
| Cable(s):                           | USB Type C cable: 1.5m unshielded cable without ferrite core                                                                                                                                                                                   |
| Cable Loss (for RF conducted test): | Below 1GHz: 0.5dB, 1GHz~2GHz:0.7dB, Above 2GHz: 1dB                                                                                                                                                                                            |
| Sample Type:                        | Portable product                                                                                                                                                                                                                               |
| Support Network:                    | GPRS, EGPRS                                                                                                                                                                                                                                    |
| Operation Frequency Band:           | GSM850/PCS1900                                                                                                                                                                                                                                 |
| Modulation Type:                    | GMSK for GPRS/EGPRS; 8PSK for EGPRS                                                                                                                                                                                                            |
| GPRS Class:                         | 12                                                                                                                                                                                                                                             |
| EGPRS Class:                        | 12                                                                                                                                                                                                                                             |
| Antenna Type:                       | PIFA Antenna                                                                                                                                                                                                                                   |
| Antenna Gain:                       | GSM850:-2.92dBi, PCS1900:-0.38dBi                                                                                                                                                                                                              |

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: | TX | RF Channel  |             |             |
|------------|----|-------------|-------------|-------------|
|            |    | Low (L)     | Middle (M)  | High (H)    |
| GSM850     | TX | Channel 128 | Channel 190 | Channel 251 |
|            |    | 824.2MHz    | 836.6 MHz   | 848.8 MHz   |
| Test mode: | TX | RF Channel  |             |             |
|            |    | Low (L)     | Middle (M)  | High (H)    |
| PCS1900    | TX | Channel 512 | Channel 661 | Channel 810 |
|            |    | 1850.2MHz   | 1880.0 MHz  | 1909.8 MHz  |

## 4.3 Test Environment

| Environment Parameter | Selected Values During Tests |          |
|-----------------------|------------------------------|----------|
| Temperature:          | TL                           | -30°C    |
|                       | TN                           | +20°C    |
|                       | TH                           | +50°C    |
| Voltage:              | VL                           | 3.5 Vdc  |
|                       | VN                           | 3.85 Vdc |
|                       | VH                           | 4.4 Vdc  |

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

## 4.4 Description of Support Units

The EUT has been tested independent unit.

## 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    |
| MXA Signal Analyzer                         | KEYSIGHT                     | N9020B        | SEM004-30     | 2025-03-03 | 2026-03-02    |
| Measurement Software                        | TST                          | TST PASS V2.0 | N/A           | N/A        | N/A           |
| Attenuator                                  | Huber+Suhner                 | 6620_SMA-50-1 | SEM021-09     | N/A        | N/A           |
| Universal Radio Communication Tester        | Rohde & Schwarz              | CMW 500       | SEM010-11     | 2025-03-03 | 2026-03-02    |
| Programmable Temperature & Humidity Chamber | Votsch Industrietechnik GmbH | VT 4002       | SEM002-15     | 2025-02-26 | 2026-02-25    |
| Power Sensor                                | KEYSIGHT                     | U2021XA       | SEM009-15     | 2025-03-05 | 2026-03-04    |

| 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     | 2025-03-04 | 2026-03-03    |
| 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     | 2025-03-21 | 2026-03-20    |
| Signal Generator(9kHz-40GHz) | N5173B                             | MY53270267      | Agilent       | 2024-09-14 | 2025-09-13    |
| Broad-Band Horn Antenna      | Schwarzbeck                        | BBHA 9120D      | SEM003-32     | 2023-09-17 | 2025-09-16    |
| Pre-amplifier                | Rohde & Schwarz                    | CH14-H052       | SEM005-17     | 2025-03-21 | 2026-03-20    |



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| 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 | 2025-03-03 | 2026-03-02 |

| 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     | 2025-03-03 | 2026-03-02   |



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## 6 Radio Spectrum Matter Test Results

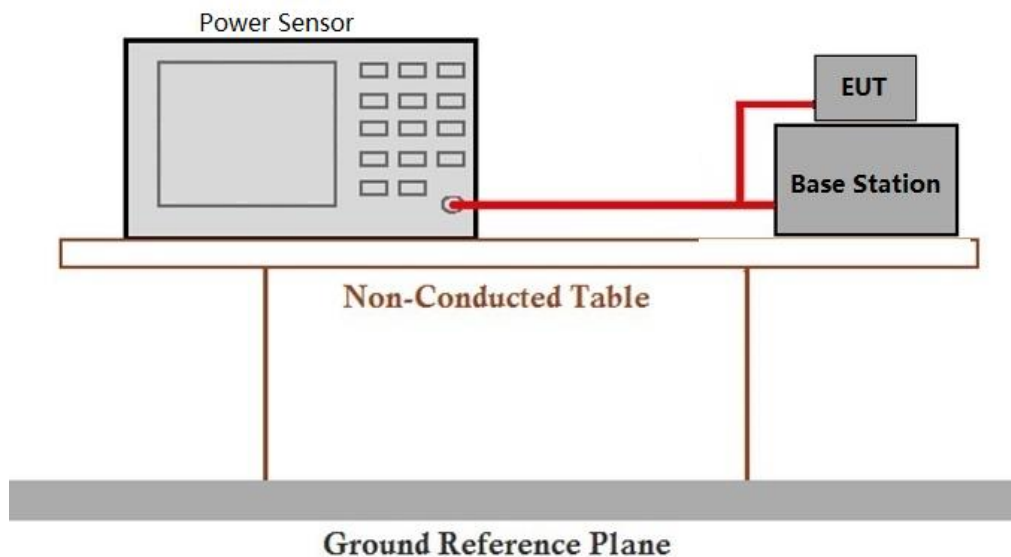
### 6.1 Effective (Isotropic) Radiated Power Output Data

Test Requirement: §2.1046, §22.913, §24.232  
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01  
 Limit: ERP≤7W(GSM850)  
 EIRP ≤ 2W(PCS1900)

#### 6.1.1 E.U.T. Operation

Operating Environment:  
 Temperature: 21.7 °C Humidity: 49.4 % RH Atmospheric Pressure: 1020 mbar  
 Test mode: 30:TX mode\_Keep the EUT in transmitting mode

#### 6.1.2 Test Setup Diagram



#### 6.1.3 Measurement Data

Please refer to Appendix for GSM test data appendix.



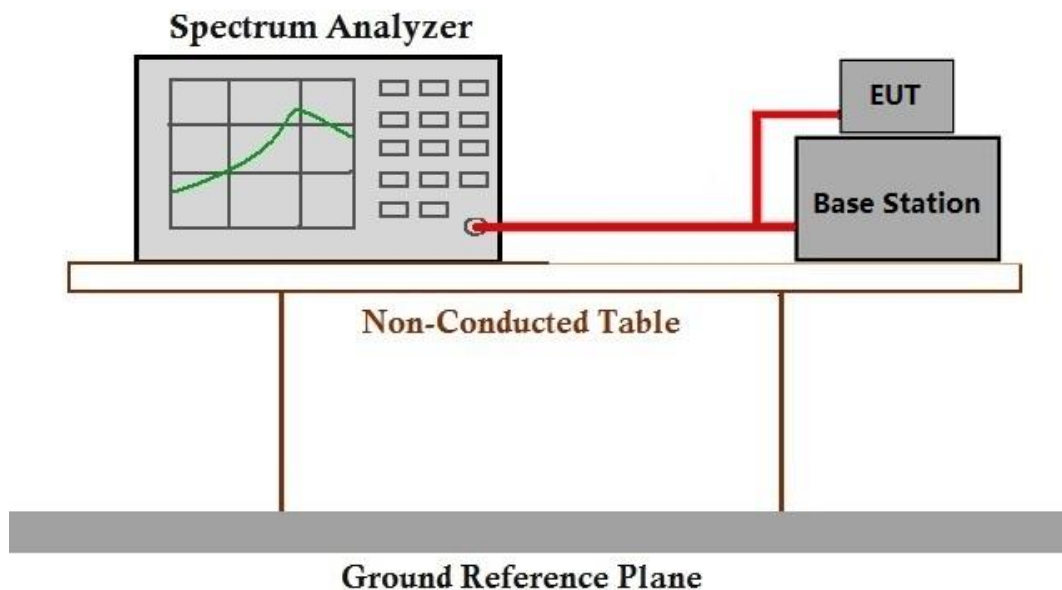
### 6.2 Peak-Average Ratio

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

#### 6.2.1 E.U.T. Operation

Operating Environment:  
 Temperature: 21.7 °C Humidity: 49.4 % RH Atmospheric Pressure: 1020 mbar  
 Test mode: 30:TX mode\_Keep the EUT in transmitting mode

#### 6.2.2 Test Setup Diagram



#### 6.2.3 Measurement Data

Please refer to Appendix for GSM test data appendix.

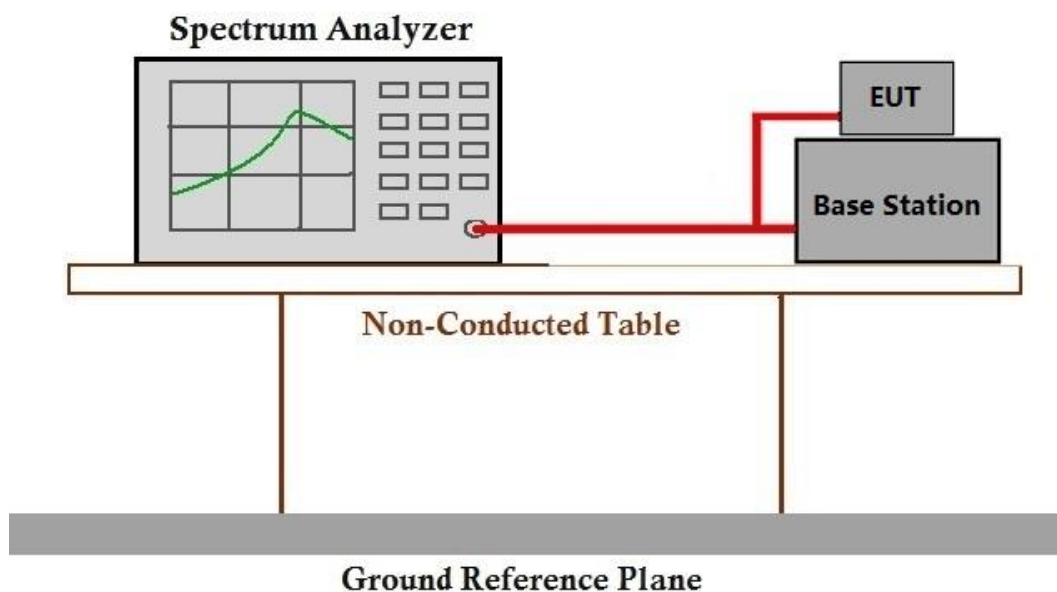
### 6.3 Bandwidth

Test Requirement: \$2.1049(h), \$22.917, \$24.238  
 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: 21.7 °C Humidity: 49.4 % RH Atmospheric Pressure: 1020 mbar  
 Test mode: 30:TX mode\_Keep the EUT in transmitting mode

#### 6.3.2 Test Setup Diagram



#### 6.3.3 Measurement Data

Please refer to Appendix for GSM test data appendix.

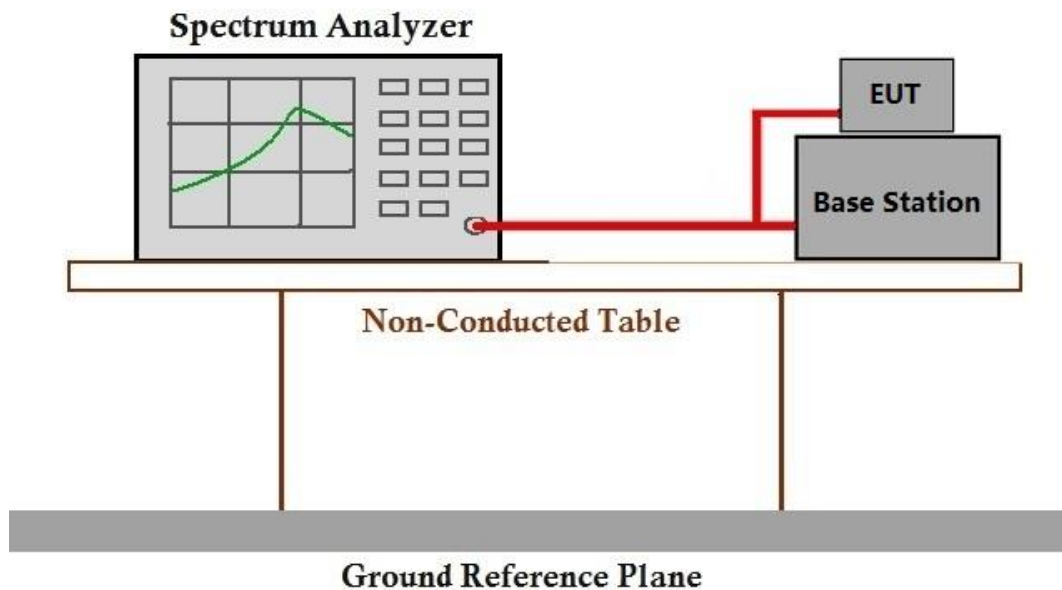
### 6.4 Band Edge Compliance

Test Requirement: \$2.1051, \$22.917, \$24.238  
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01  
 Limit:  $\leq -13\text{dBm}/1\% \cdot \text{EBW}$ , in 1 MHz bands immediately outside and adjacent to the frequency block.

#### 6.4.1 E.U.T. Operation

Operating Environment:  
 Temperature: 21.7 °C Humidity: 49.4 % RH Atmospheric Pressure: 1020 mbar  
 Test mode: 30:TX mode\_Keep the EUT in transmitting mode

#### 6.4.2 Test Setup Diagram



#### 6.4.3 Measurement Data

Please refer to Appendix for GSM test data appendix.

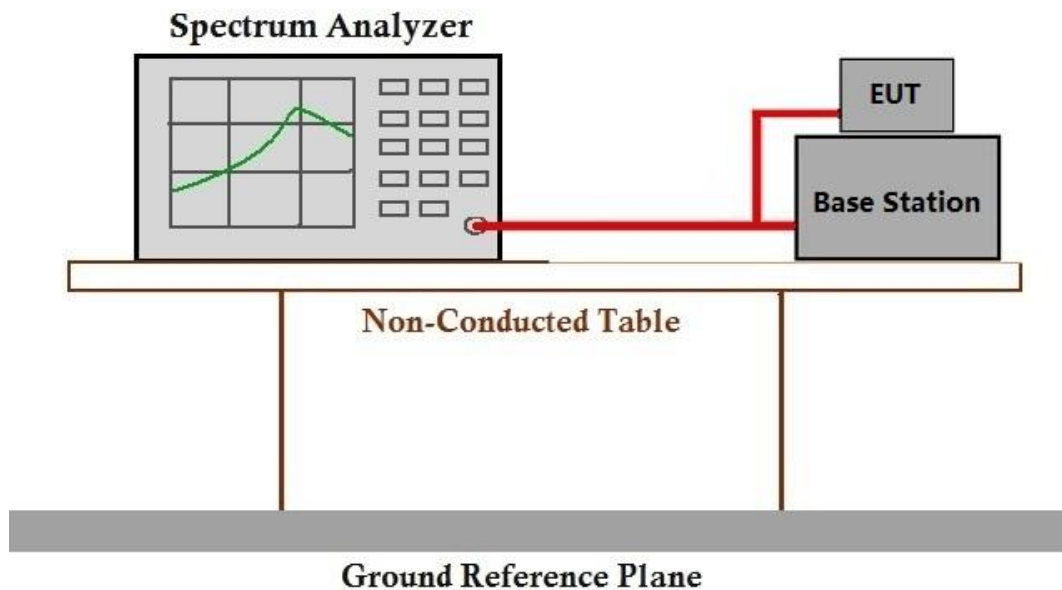
### 6.5 Spurious emissions at antenna terminals

Test Requirement: §2.1051, §22.917, §24.238  
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01  
 Limit:  $\leq -13\text{dBm}$

#### 6.5.1 E.U.T. Operation

Operating Environment:  
 Temperature: 21.7 °C Humidity: 49.4 % RH Atmospheric Pressure: 1020 mbar  
 Test mode: 30:TX mode\_Keep the EUT in transmitting mode

#### 6.5.2 Test Setup Diagram



#### 6.5.3 Measurement Data

Please refer to Appendix for GSM test data appendix.

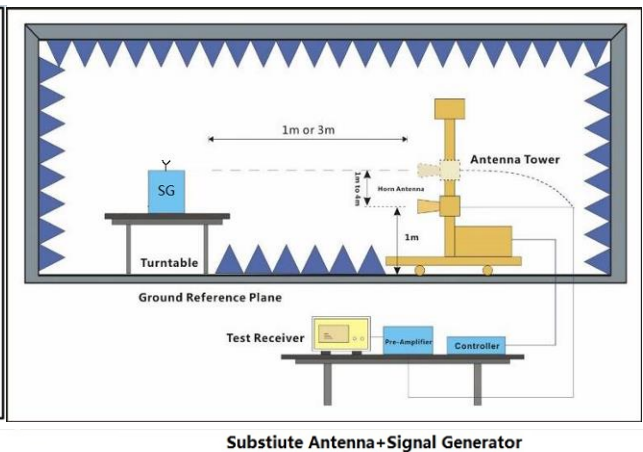
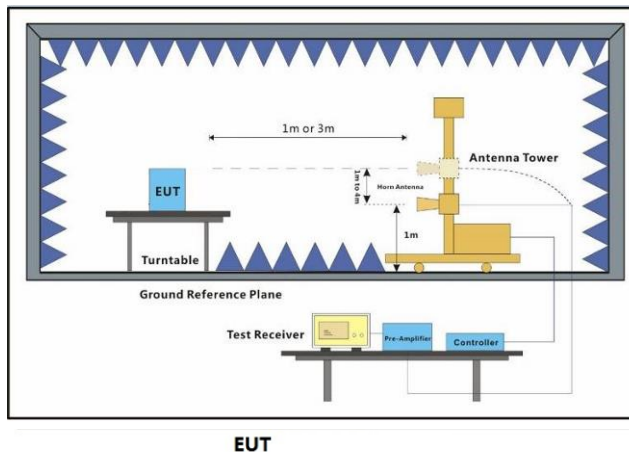
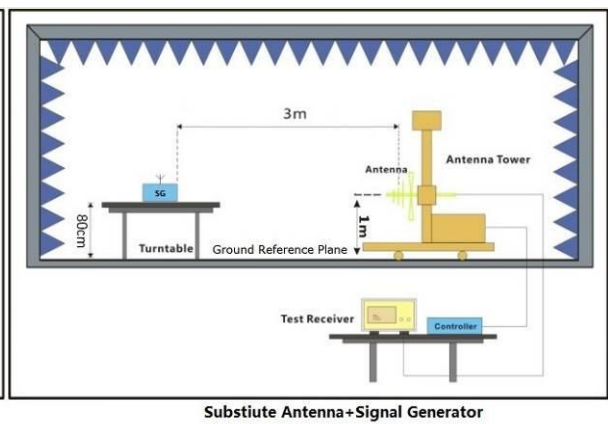
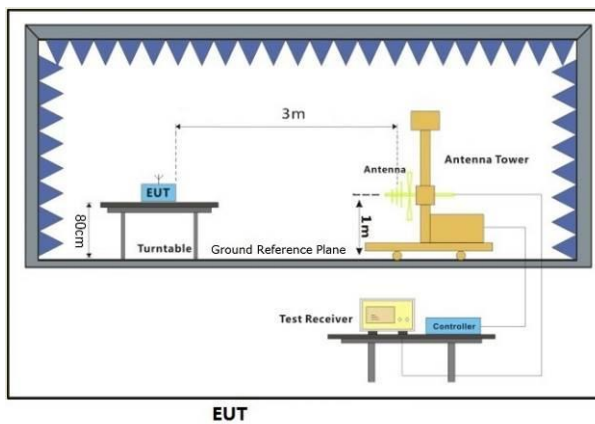
### 6.6 Field strength of spurious radiation

Test Requirement: §2.1051, §22.917, §24.238  
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01  
 Limit:  $\leq -13\text{dBm}$

#### 6.6.1 E.U.T. Operation

Operating Environment:  
 Temperature: 21.7 °C Humidity: 49.4 % RH Atmospheric Pressure: 1020 mbar  
 Test mode: 30:TX mode\_Keep the EUT in transmitting mode

#### 6.6.2 Test Setup Diagram



## 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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| GSM850-Low channel |            |             |                 |                  |                 |                    |                    |        |
|--------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)    | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1648.4             | -65.71     | -13         | -52.71          | -68.6            | 2.62            | 5.51               | Horizontal         | Pass   |
| 2472.6             | -64.52     | -13         | -51.52          | -67.21           | 3.06            | 5.75               | Horizontal         | Pass   |
| 3296.8             | -63.06     | -13         | -50.06          | -67.42           | 3.3             | 7.66               | Horizontal         | Pass   |
| 1648.4             | -66.72     | -13         | -53.72          | -69.61           | 2.62            | 5.51               | Vertical           | Pass   |
| 2472.6             | -64.0      | -13         | -51.0           | -66.69           | 3.06            | 5.75               | Vertical           | Pass   |
| 3296.8             | -62.04     | -13         | -49.04          | -66.4            | 3.3             | 7.66               | Vertical           | Pass   |

| GSM850-Middle channel |            |             |                 |                  |                 |                    |                    |        |
|-----------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)       | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1673.2                | -68.54     | -13         | -55.54          | -71.35           | 2.63            | 5.44               | Horizontal         | Pass   |
| 2509.8                | -62.1      | -13         | -49.1           | -64.86           | 3.08            | 5.84               | Horizontal         | Pass   |
| 3346.4                | -62.09     | -13         | -49.09          | -66.56           | 3.32            | 7.79               | Horizontal         | Pass   |
| 1673.2                | -65.9      | -13         | -52.9           | -68.71           | 2.63            | 5.44               | Vertical           | Pass   |
| 2509.8                | -61.36     | -13         | -48.36          | -64.12           | 3.08            | 5.84               | Vertical           | Pass   |
| 3346.4                | -61.27     | -13         | -48.27          | -65.74           | 3.32            | 7.79               | Vertical           | Pass   |

| GSM850-High channel |            |             |                 |                  |                 |                    |                    |        |
|---------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)     | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 1697.6              | -66.45     | -13         | -53.45          | -69.19           | 2.64            | 5.38               | Horizontal         | Pass   |
| 2546.4              | -63.57     | -13         | -50.57          | -66.4            | 3.09            | 5.92               | Horizontal         | Pass   |
| 3395.2              | -61.43     | -13         | -48.43          | -65.99           | 3.35            | 7.91               | Horizontal         | Pass   |
| 1697.6              | -64.8      | -13         | -51.8           | -67.54           | 2.64            | 5.38               | Vertical           | Pass   |
| 2546.4              | -62.16     | -13         | -49.16          | -64.99           | 3.09            | 5.92               | Vertical           | Pass   |
| 3395.2              | -62.29     | -13         | -49.29          | -66.85           | 3.35            | 7.91               | Vertical           | Pass   |



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| GSM1900-Low channel |            |             |                 |                  |                 |                    |                    |        |
|---------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)     | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3700.4              | -66.3      | -13         | -53.3           | -71.16           | 3.58            | 8.44               | Horizontal         | Pass   |
| 5550.6              | -62.09     | -13         | -49.09          | -67.8            | 4.74            | 10.45              | Horizontal         | Pass   |
| 7400.8              | -60.18     | -13         | -47.18          | -66.86           | 4.94            | 11.62              | Horizontal         | Pass   |
| 3700.4              | -66.26     | -13         | -53.26          | -71.12           | 3.58            | 8.44               | Vertical           | Pass   |
| 5550.6              | -61.9      | -13         | -48.9           | -67.61           | 4.74            | 10.45              | Vertical           | Pass   |
| 7400.8              | -60.03     | -13         | -47.03          | -66.71           | 4.94            | 11.62              | Vertical           | Pass   |

| GSM1900-Middle channel |            |             |                 |                  |                 |                    |                    |        |
|------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)        | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3760.0                 | -65.82     | -13         | -52.82          | -70.71           | 3.63            | 8.52               | Horizontal         | Pass   |
| 5640.0                 | -61.96     | -13         | -48.96          | -67.66           | 4.75            | 10.45              | Horizontal         | Pass   |
| 7520.0                 | -59.74     | -13         | -46.74          | -66.56           | 4.94            | 11.76              | Horizontal         | Pass   |
| 3760.0                 | -65.86     | -13         | -52.86          | -70.75           | 3.63            | 8.52               | Vertical           | Pass   |
| 5640.0                 | -61.67     | -13         | -48.67          | -67.37           | 4.75            | 10.45              | Vertical           | Pass   |
| 7520.0                 | -58.96     | -13         | -45.96          | -65.78           | 4.94            | 11.76              | Vertical           | Pass   |

| GSM1900-High channel |            |             |                 |                  |                 |                    |                    |        |
|----------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)      | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 3819.6               | -65.38     | -13         | -52.38          | -70.3            | 3.68            | 8.6                | Horizontal         | Pass   |
| 5729.4               | -61.66     | -13         | -48.66          | -67.35           | 4.76            | 10.45              | Horizontal         | Pass   |
| 7639.2               | -58.81     | -13         | -45.81          | -65.76           | 4.95            | 11.9               | Horizontal         | Pass   |
| 3819.6               | -64.66     | -13         | -51.66          | -69.58           | 3.68            | 8.6                | Vertical           | Pass   |
| 5729.4               | -61.95     | -13         | -48.95          | -67.64           | 4.76            | 10.45              | Vertical           | Pass   |
| 7639.2               | -58.72     | -13         | -45.72          | -65.67           | 4.95            | 11.9               | Vertical           | Pass   |

Note:

All modes have been tested and we found GPRS Test mode has the worst test result. Only record the worst test result.



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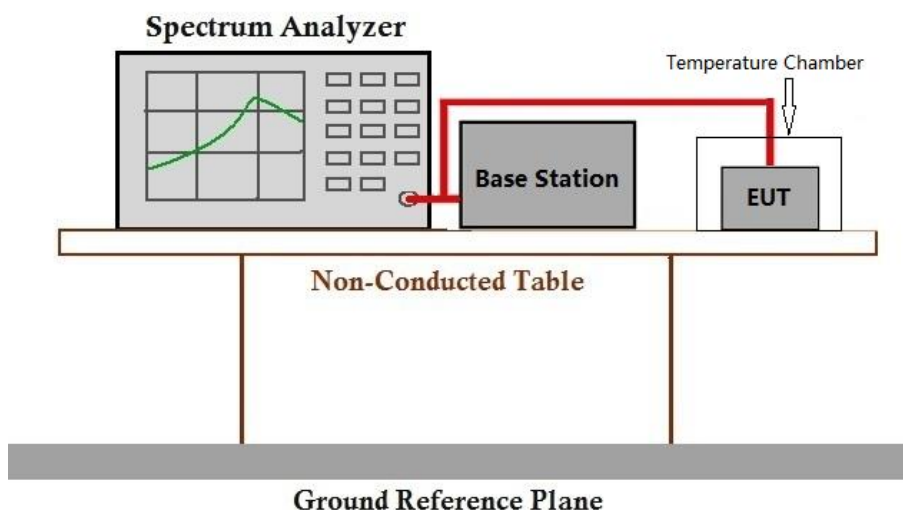
### 6.7 Frequency stability

Test Requirement: \$2.1055, \$21.755, \$24.235  
 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: 21.7 °C Humidity: 49.4 % RH Atmospheric Pressure: 1020 mbar  
 Test mode: 30:TX mode\_Keep the EUT in transmitting mode

#### 6.7.2 Test Setup Diagram



#### 6.7.3 Measurement Data

Please refer to Appendix for GSM test data appendix.

## 7 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2504001658AT

## 8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2504001658AT

-End of Report -

