



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400145002

Page: 1 of 24

TEST REPORT

Application No.: SZCR2404001450AT
Applicant: TECNO MOBILE LIMITED
Address of Applicant: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Manufacturer: TECNO MOBILE LIMITED
Address of Manufacturer: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Factory: SHENZHEN TECNO TECHNOLOGY CO.,LTD.
Address of Factory: 101,Building 24,Waijing Industrial Park,Fumin Community,Fucheng Street,Longhua District,Shenzhen City,P.R.China
Equipment Under Test (EUT):
EUT Name: Mobile Phone
Model No.: AE10
Trade Mark: TECNO
FCC ID: 2ADYY-AE10
Standard(s) : 47 CFR Part 2
47 CFR Part 96
Date of Receipt: 2024-04-29
Date of Test: 2024-05-12 to 2024-05-26
Date of Issue: 2024-05-30

Test Result:

Pass

* 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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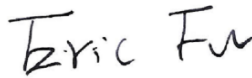
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Report No.: SZCR240400145002

Page: 2 of 24

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-05-30		Original

Authorized for issue by:				
				
		Charlie Dai/Project Engineer		
				
		Eric Fu/Reviewer		



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Report No.: SZCR240400145002

Page: 3 of 24

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≤ 23dBm/10MHz (5G NR n77 & n78)	Pass
Peak-Average Ratio	§96.41(g)	≤13dB	Pass
Modulation Characteristics	§2.1047 §96.41(a)	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	Pass
Spurious emissions at antenna terminals	§2.1051 §96.41(e)	Refer to clause 6.5	Pass
Field strength of spurious radiation	§2.1053 §96.41(e)	Refer to clause 6.6	Pass
Frequency stability	§2.1055	≤ ±2.5ppm.	Pass



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400145002

Page: 4 of 24

3 Contents

	Page
1 COVER PAGE	1
2 Test Summary	3
3 Contents.....	4
4 General Information	6
4.1 Details of E.U.T.	6
4.2 Test Frequency.....	7
4.3 Test Environment	8
4.4 Description of Support Units.....	8
4.5 Measurement Uncertainty	8
4.6 Test Location	9
4.7 Test Facility	9
4.8 Deviation from Standards.....	9
4.9 Abnormalities from Standard Conditions	9
5 Equipment List	10
6 Radio Spectrum Matter Test Results	12
6.1 Effective (Isotropic) Radiated Output Power & Maximum Power Spectral Density	12
6.1.1 E.U.T. Operation	12
6.1.2 Test Setup Diagram	12
6.1.3 Measurement Data.....	12
6.2 Peak-Average Ratio	13
6.2.1 E.U.T. Operation	13
6.2.2 Test Setup Diagram	13
6.2.3 Measurement Data.....	13
6.3 Bandwidth.....	14
6.3.1 E.U.T. Operation	14
6.3.2 Test Setup Diagram	14
6.3.3 Measurement Data.....	14
6.4 Band Edge Compliance.....	15
6.4.1 E.U.T. Operation	15
6.4.2 Test Setup Diagram	15
6.4.3 Measurement Data.....	15
6.5 Spurious emissions at antenna terminals.....	16
6.5.1 E.U.T. Operation	16
6.5.2 Test Setup Diagram	16
6.5.3 Measurement Data.....	16
6.6 Field strength of spurious radiation	17
6.6.1 E.U.T. Operation	17
6.6.2 Test Setup Diagram	18
6.6.3 Measurement Procedure and Data	19
6.7 Frequency stability.....	22
6.7.1 E.U.T. Operation	22
6.7.2 Test Setup Diagram	22



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400145002

Page: 5 of 24

6.7.3	Measurement Data	22
6.8	Modulation Characteristics	23
6.8.1	E.U.T. Operation	23
6.8.2	Test Setup Diagram	23
6.8.3	Measurement Data	23
7	Test Setup Photo	24
8	EUT Constructional Details (EUT Photos)	24



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400145002

Page: 6 of 24

4 General Information

4.1 Details of E.U.T.						
Power supply:	Lithium-ion rechargeable battery (DC 3.86V 2637mAh & 3.86V 2973mAh) which can be charged from USB-C port. Adapter Model: U700TSA Input: 100-240V 50/60Hz 2.0A Output: 5.0V 3.0A, 5.0-10.0V 7.0A Max., 11.0V 6.4A Max., 4.0-20.0V 3.5A Max.					
Cable:	USB-A to C cable: 100cm shielded					
SA Frequency Band:	NR Band	Uplink (MHz)		Downlink (MHz)		
	77	3550-3700		3550-3700		
	78	3550-3700		3550-3700		
Type of Modulation:	n77, n78: DFT-s-OFDM: Pi/2-BPSK\QPSK\16QAM\64QAM\256QAM CP-OFDM: QPSK\16QAM\64QAM\256QAM					
EUT type:	End User Device					
SCS Information:	30kHz					
Power Class	Class 3					
Antenna Function:	Band	ANT1	ANT5	ANT6	ANT8	
	n77	TRX	RX	RX	RX	
	n78	TRX	RX	RX	RX	
MIMO Information:	N/A					
Antenna Type:	PIFA					
Antenna Gain:	ANT1: n77/n78: -2dBi (Provided by manufacturer)					

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
N77/78	20	3560.01	3624.99	3690.0
	30	3565.02	3624.99	3684.99
	40	3570.0	3624.99	3679.98
	50	3575.01	3624.99	3675
	60	3580.02	3624.99	3669.99
	70	3585	3624.99	3664.98
	80	3590.01	3624.99	3660
	90	3595.02	3624.99	3654.99
	100	3600	3624.99	3649.98

Remark: NR Band n77 and NR Band n78 have the same frequency range and transmission antenna. All test items were performed Pre-scan test in n77 and n78 and found and only recorded the worst data of n78 in the report.

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400145002

Page: 8 of 24

4.3 Test Environment

Environment Parameter	Selected Values During Tests	
Relative Humidity	56.1%	
Atmospheric Pressure:	1020Pa	
Temperature:	TL	-30°C
	TN	+20°C
	TH	+50°C
Voltage:	VL	DC 3.281V
	VN	DC 3.860V
	VH	DC 4.439V

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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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400145002

Page: 9 of 24

4.6 Test Location

All tests were performed at:

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No. 1 Workshop, M-10, Middle Section, Science & Technology Park, 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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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400145002

Page: 10 of 24

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	2023-07-11	2024-07-10
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-20	2025-03-19
MXA Signal Analyzer	KEYSIGHT	N9020B	SEM004-24	2024-3-14	2025-3-13
Measurement Software	TST	TST PASS V2.0	N/A	N/A	N/A
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-3-27	2025-3-26
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
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-3-19	2025-3-18
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	2024-5-11	2027-5-10
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14
Signal Generator(9kHz-40GHz)	N5173B	MY53270267	Agilent	2023-9-19	2024-9-18
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2021-07-11	2024-07-10
Broad-Band Horn	Schwarzbeck	BBHA 9120D	SEM003-32	2021-09-26	2024-09-25



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400145002

Page: 11 of 24

Antenna					
Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2024-03-15	2025-03-14
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2024-03-15	2025-03-14
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
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

RE in Chamber(below 1GHz)

Test Equipment	Test Equipment	Test Equipment	Test Equipment	Test Equipment	Test Equipment
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2023-10-19	2024-10-18
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-9-16	2025-9-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-3-14	2025-3-13
Substitution Antenna	Schwarzbeck	VULB9163	SEM003-05	2023-9-16	2025-9-15
Signal Generator(9kHz- 40GHz)	N5173B	MY53270267	Agilent	2023-9-19	2024-9-18
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2023-07-07	2024-07-06
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	2023-07-28	2024-07-27
Humidity- Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-22	2025-03-21



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6 Radio Spectrum Matter Test Results

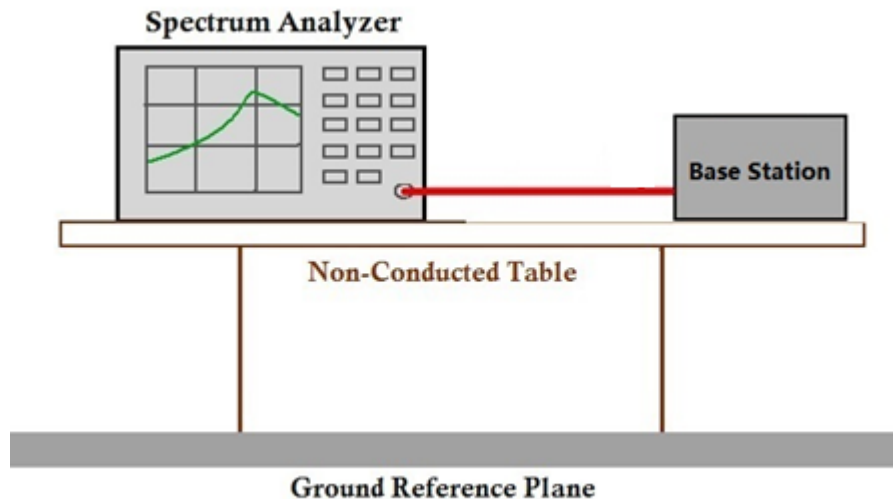
6.1 Effective (Isotropic) Radiated Output Power & Maximum Power Spectral Density

Test Requirement: §2.1046, §96.41(b)
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01
 Limit: EIRP ≤ 23 dBm/10 MHz
 PSD: NA

6.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.4 °C Humidity: 58.2 % 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.

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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400145002

Page: 13 of 24

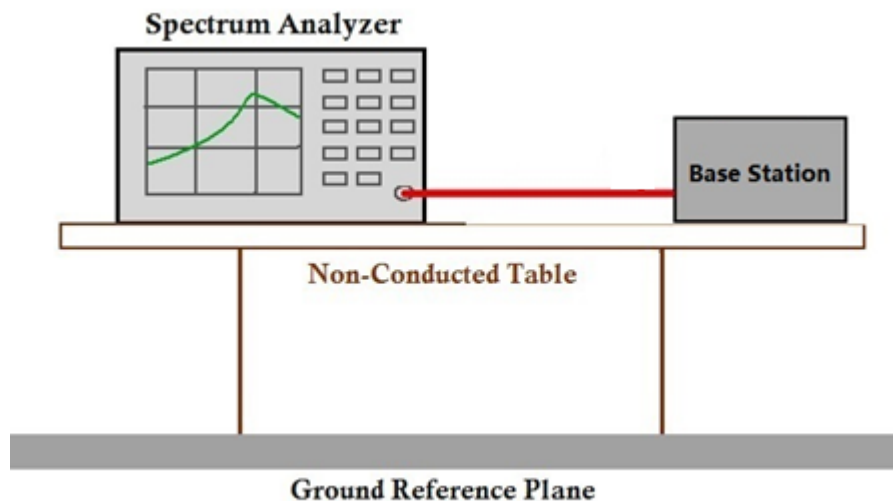
6.2 Peak-Average Ratio

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: 23.4 °C Humidity: 58.2 % 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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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400145002

Page: 14 of 24

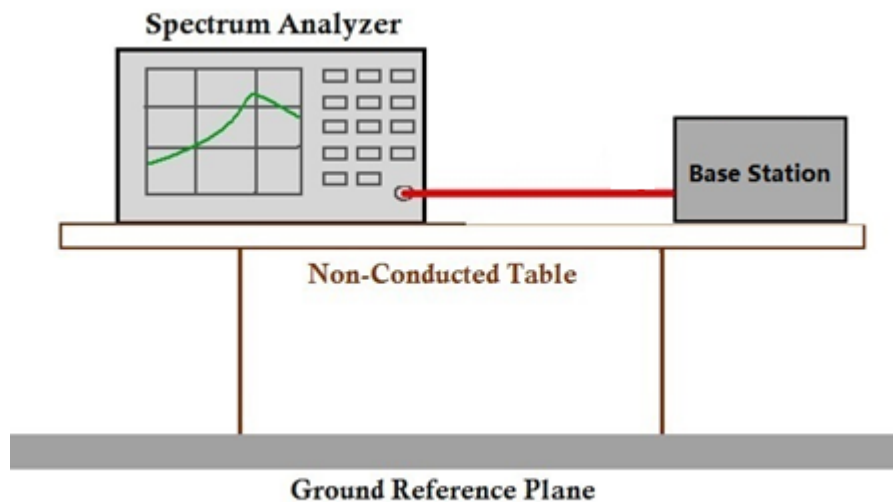
6.3 Bandwidth

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: 23.4 °C Humidity: 58.2 % 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.

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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400145002

Page: 15 of 24

6.4 Band Edge Compliance

Test Requirement: §2.1051, §96.41(e),

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

- Limit:
- 1) The conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30dB.
 - 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.

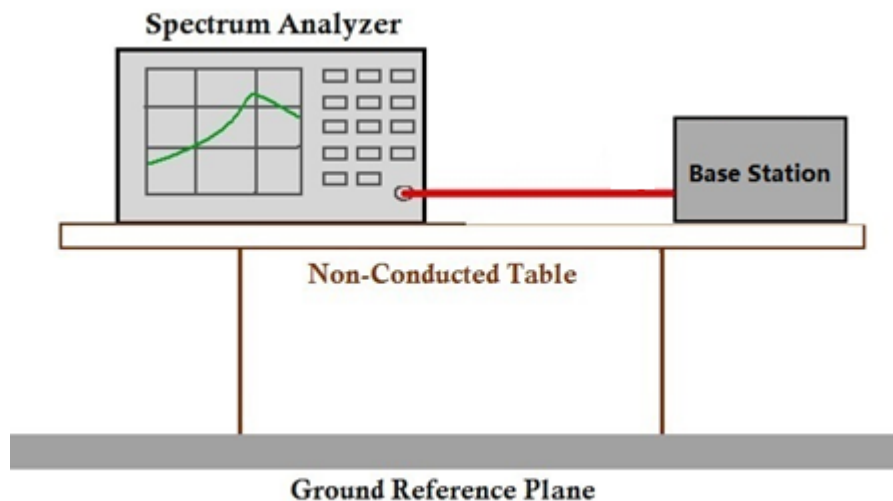
6.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 58.2 % 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.

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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400145002

Page: 16 of 24

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:
- 1) The conducted power of any End User Device emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0 to B megahertz (where B is the bandwidth in megahertz of the assigned channel or multiple contiguous channels of the End User Device) above the upper CBSD-assigned channel edge and within 0 to B megahertz below the lower CBSD-assigned channel edge. At all frequencies greater than B megahertz above the upper CBSD assigned channel edge and less than B megahertz below the lower CBSD-assigned channel edge, the conducted power of any End User Device emission shall not exceed -25 dBm/MHz. Notwithstanding the emission limits in this paragraph, the Adjacent Channel Leakage Ratio for End User Devices shall be at least 30dB.
 - 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.

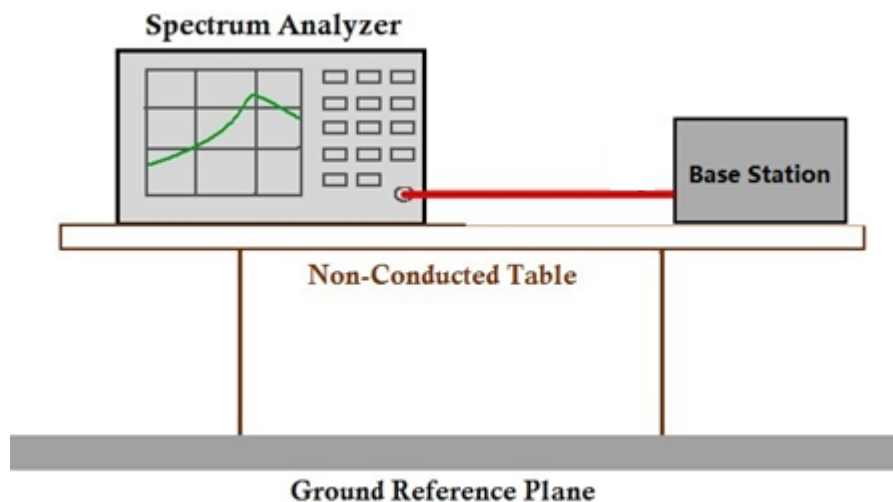
6.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 58.2 % 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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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400145002

Page: 17 of 24

6.6 Field strength of spurious radiation

Test Requirement: §2.1053, §96.41(e)

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

- Limit:
- 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: 22.6 °C Humidity: 47.2 % RH Atmospheric Pressure: 1020 mbar

Test mode 01: Tx mode, Keep the EUT in transmitting mode.

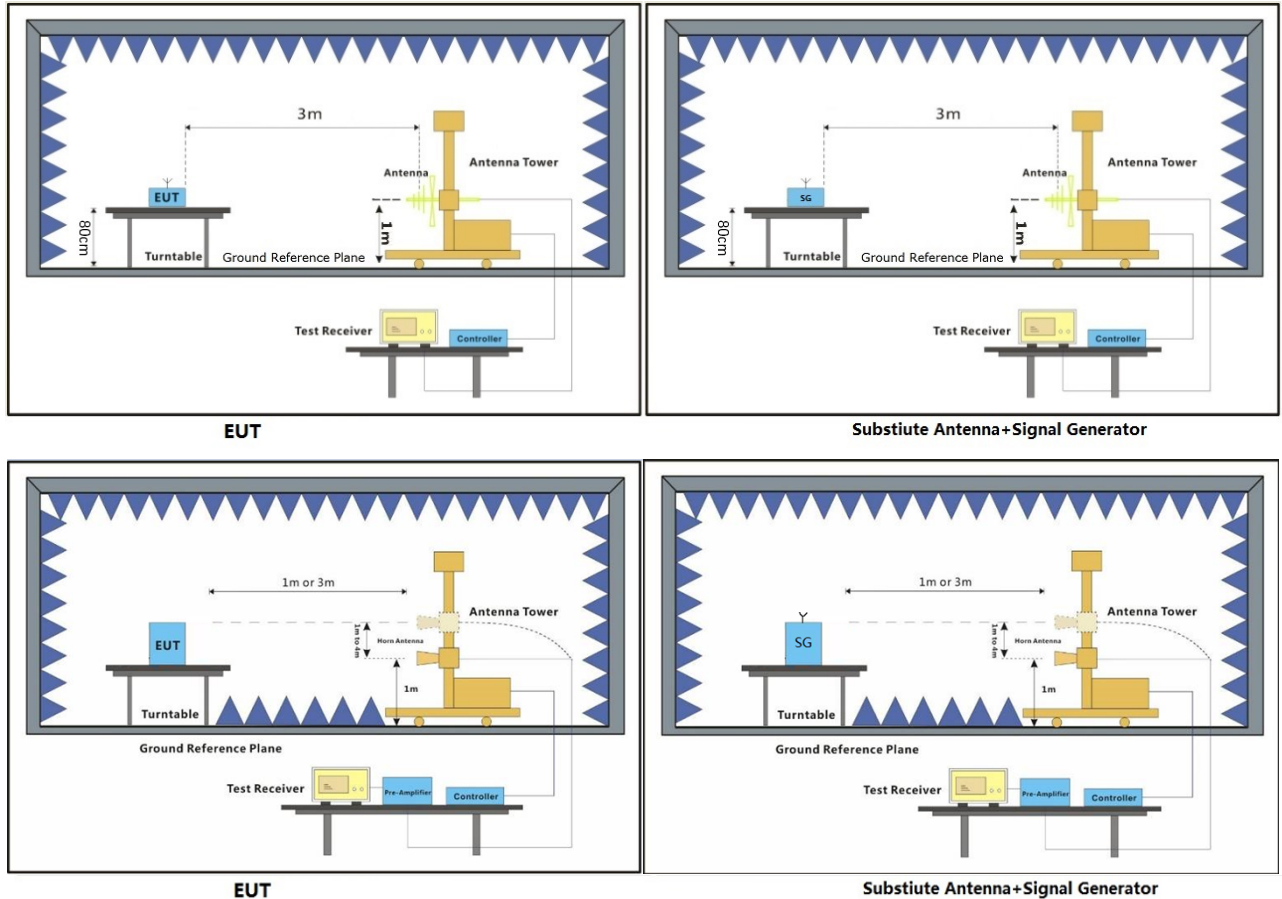


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6.6.2 Test Setup Diagram



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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400145002

Page: 19 of 24

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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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400145002

Page: 20 of 24

LTE Band 77-Low channel, Modulation: Pi/2-BPSK, Bandwidth:20MHz, 1RB0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
7420.02	-48.64	-40	-8.64	-56.06	4.22	11.64	Horizontal	Pass
11130.03	-47.54	-40	-7.54	-55.73	5.07	13.26	Horizontal	Pass
14840.04	-46.73	-40	-6.73	-55.78	5.44	14.49	Horizontal	Pass
7420.02	-48.55	-40	-8.55	-55.97	4.22	11.64	Vertical	Pass
11130.03	-46.18	-40	-6.18	-54.37	5.07	13.26	Vertical	Pass
14840.04	-47.66	-40	-7.66	-56.71	5.44	14.49	Vertical	Pass

LTE Band 77-Middle channel, Modulation: Pi/2-BPSK, Bandwidth:20MHz, 1RB0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
7680.0	-50.16	-40	-10.16	-57.88	4.23	11.95	Horizontal	Pass
11520.0	-49.51	-40	-9.51	-57.69	5.06	13.24	Horizontal	Pass
15360.0	-48.79	-40	-8.79	-57.52	5.6	14.33	Horizontal	Pass
7680.0	-49.49	-40	-9.49	-57.21	4.23	11.95	Vertical	Pass
11520.0	-48.02	-40	-8.02	-56.2	5.06	13.24	Vertical	Pass
15360.0	-47.09	-40	-7.09	-55.82	5.6	14.33	Vertical	Pass

LTE Band 77-High channel, Modulation: Pi/2-BPSK, Bandwidth:20MHz, 1RB0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
7939.98	-49.22	-40	-9.22	-57.24	4.24	12.26	Horizontal	Pass
11909.97	-48.62	-40	-8.62	-56.83	5.05	13.26	Horizontal	Pass
15879.96	-47.85	-40	-7.85	-56.13	5.65	13.93	Horizontal	Pass
7939.98	-48.99	-40	-8.99	-57.01	4.24	12.26	Vertical	Pass
11909.97	-47.5	-40	-7.5	-55.71	5.05	13.26	Vertical	Pass
15879.96	-46.82	-40	-6.82	-55.1	5.65	13.93	Vertical	Pass

Note: All modes have been tested and we found Pi/2-BPSK test mode has the worst test result. Only record the worst test result.



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Report No.: SZCR240400145002

Page: 21 of 24

LTE Band 78-Low channel, Modulation: Pi/2-BPSK, Bandwidth:20MHz, 1RB0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
7420.02	-48.36	-40	-8.36	-55.78	4.22	11.64	Horizontal	Pass
11130.03	-47.84	-40	-7.84	-56.03	5.07	13.26	Horizontal	Pass
14840.04	-47.06	-40	-7.06	-56.11	5.44	14.49	Horizontal	Pass
7420.02	-49.17	-40	-9.17	-56.59	4.22	11.64	Vertical	Pass
11130.03	-48.22	-40	-8.22	-56.41	5.07	13.26	Vertical	Pass
14840.04	-46.76	-40	-6.76	-55.81	5.44	14.49	Vertical	Pass

LTE Band 78-Middle channel, Modulation: Pi/2-BPSK, Bandwidth:20MHz, 1RB0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
7500.0	-48.45	-40	-8.45	-55.97	4.22	11.74	Horizontal	Pass
11250.0	-47.4	-40	-7.4	-55.6	5.06	13.26	Horizontal	Pass
15000.0	-46.85	-40	-6.85	-55.81	5.56	14.52	Horizontal	Pass
7500.0	-48.06	-40	-8.06	-55.58	4.22	11.74	Vertical	Pass
11250.0	-47.99	-40	-7.99	-56.19	5.06	13.26	Vertical	Pass
15000.0	-46.53	-40	-6.53	-55.49	5.56	14.52	Vertical	Pass

LTE Band 78-High channel, Modulation: Pi/2-BPSK, Bandwidth:20MHz, 1RB0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
7579.98	-49.56	-40	-9.56	-57.17	4.22	11.83	Horizontal	Pass
11369.97	-47.92	-40	-7.92	-56.11	5.06	13.25	Horizontal	Pass
15159.96	-46.73	-40	-6.73	-55.58	5.58	14.43	Horizontal	Pass
7579.98	-49.5	-40	-9.5	-57.11	4.22	11.83	Vertical	Pass
11369.97	-47.83	-40	-7.83	-56.02	5.06	13.25	Vertical	Pass
15159.96	-46.8	-40	-6.8	-55.65	5.58	14.43	Vertical	Pass

Note: All modes have been tested and we found Pi/2-BPSK test mode has the worst test result. Only record the worst test result.



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Report No.: SZCR240400145002

Page: 22 of 24

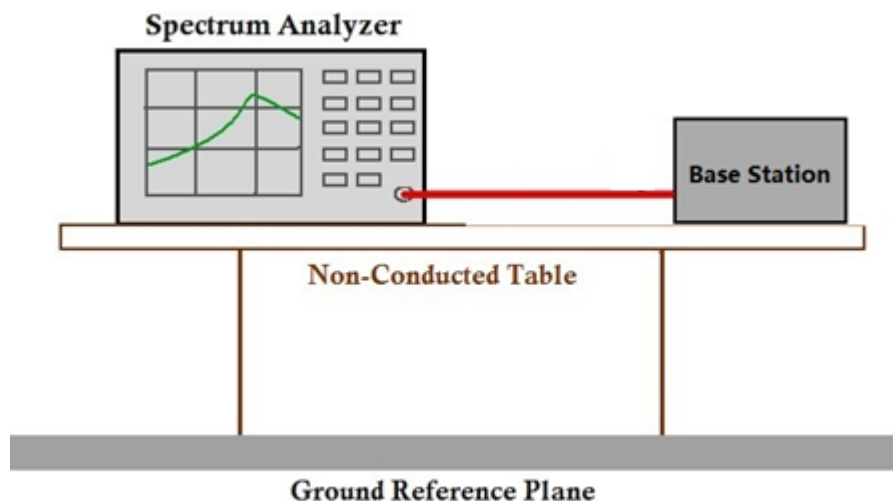
6.7 Frequency stability

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: 23.4 °C Humidity: 58.2 % 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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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400145002

Page: 23 of 24

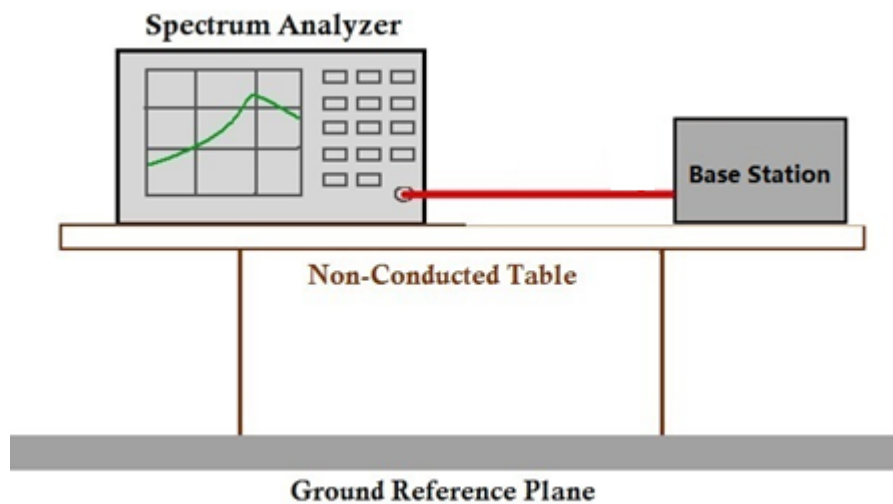
6.8 Modulation Characteristics

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: 23.4 °C Humidity: 58.2 % 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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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240400145002

Page: 24 of 24

7 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2404001450AT.

8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos.

- End of the Report -



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