

# TEST REPORT

**Application No.:** FYCR2204000134AT  
**Applicant:** Hytera Communications Corporation Limited  
**Address of Applicant:** Hytera Tower, Hi-Tech Industrial Park North, 9108# Beihuan Road, Nanshan District, Shenzhen, P.R.C., P 518057  
**Manufacturer:** Hytera Communications Corporation Limited  
**Address of Manufacturer:** Hytera Tower, Hi-Tech Industrial Park North, 9108# Beihuan Road, Nanshan District, Shenzhen, P.R.C., P 518057  
**Factory:** Sunrise Simcom (Tong cheng) Limited  
**Address of Factory:** No.188-1, Nanshan Road, Tongcheng Economic Development Zone, Anqing, Anhui  
**Equipment Under Test (EUT):**  
**EUT Name:** 5G XSecure Rugged Device  
**Model No.:** PNC560, PNC560 SCAN ♣  
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.  
**Trade Mark:** Hytera  
**FCC ID:** YAMPNC560  
**Standard(s) :** 47 CFR Part 2  
 47 CFR Part 22 subpart H  
 47 CFR Part 24 subpart E  
 47 CFR Part 27 subpart C  
**Date of Receipt:** 2022-04-29  
**Date of Test:** 2022-05-16 to 2022-06-21  
**Date of Issue:** 2022-07-02

<b>Test Result:</b>	<b>Pass</b>
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\* In the configuration tested, the EUT complied with the standards specified above.





Winkey Wang  
EMC Technical Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-07-02		Original

<b>Authorized for issue by:</b>			
		 <hr/> <b>Tree Zhan/Project Engineer</b>	
		 <hr/> <b>Winkey Wang/Reviewer</b>	



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## 2 Test Summary

Test Item	FCC Rule No.	Requirements	Verdict
Effective (Isotropic) Radiated Output Power Data	§2.1046 §22.913 §24.232 §27.50(c) §27.50(d) §27.50(h)	ERP ≤ 7W(n5) EIRP ≤ 2W(n2) ERP ≤ 3W(n71) EIRP ≤ 1W(n66) EIRP ≤ 2W(n41)	PASS
Peak-Average Ratio	§22.913 §24.232 §27.50(d)	≤ 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 §22.917 §24.238 §27.50(g) §27.50(h) §27.50(m)	≤ -13dBm (n5) ≤ -13dBm (n2) ≤ -13dBm (n71) ≤ -13dBm (n66) Refer to clause 6.4 for n41	PASS
Spurious emissions at antenna terminals	§2.1051 §22.917 §24.238 §27.50(g) §27.50(h) §27.50(m)	≤ -13dBm (n5) ≤ -13dBm (n2) ≤ -13dBm (n71) ≤ -13dBm (n66) Refer to clause 6.5 for n41	PASS
Field strength of spurious radiation	§2.1051 §22.917 §24.238 §27.50(g) §27.50(h) §27.50(m)	≤ -13dBm (n5) ≤ -13dBm (n2) ≤ -13dBm (n71) ≤ -13dBm (n66) Refer to clause 6.6 for n41	PASS
Frequency stability	§2.1055 §22.355 §24.235 §27.54	≤ ±2.5ppm.	PASS

### Declaration of EUT Family Grouping:

Model No.: PNC560, PNC560 SCAN

Only the model PNC560 SCAN was fully tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for all the above models, with only difference on SCAN camera for PNC560 SCAN and emergency call button for PNC560.



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## 4 General Information

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

Power supply:	DC3.85V by Li-ion battery Recharged by AC/DC power adapter Adapter M/N: TPA-10R120150UU01 Adapter input: AC100-240V, 50/60Hz, 0.6A Adapter output: DC3.6-6V/3A, 6-9V/2A, 9-12V/1.5A
Cable(s):	USB Type C cable: 1m shielded cable without ferrite core
Sample Type:	Portable production
NR Operation Frequency Band:	SA: n2, n5, n41, n66, n71 NSA: 7A_n71A, 12A_n41A, 12A_n66A, 13A_n66A
Modulation Type:	DFT-s-OFDM: PI/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM
NR Power Class:	Level 3
SCS:	15KHz for n2,n5,n66,n71, 30KHz for n41
Antenna Type:	PIFA Antenna n2, -1dBi n5, -2dBi
Antenna Gain:	n41, 1dBi n66, -1dBi n71, -2.5dBi
SIM Card:	This device has dual SIM Card sockets. Both the SIM sockets have been tested. SIM1 was worst case, only record SIM1.

### 4.2 Test Frequency

Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
n 2	5	1852.5	1880	1907.5
	10	1855.0	1880	1905.0
	15	1857.5	1880	1902.5
	20	1860.0	1880	1900.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
n 5	5	826.5	836.5	846.5
	10	829.0	836.5	844.0
	15	831.5	836.5	841.5



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	20	834.0	836.5	839.0
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Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
n 41	20	2506.02	2592.99	2679.99
	30	2511.00	2592.99	2674.98
	40	2516.01	2592.99	2670.00
	50	2521.02	2592.99	2664.99
	60	2526.00	2592.99	2659.98
	80	2536.02	2592.99	2649.99
	90	2541.00	2592.99	2644.98
	100	2546.01	2592.99	2640.00
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
n 66	5	1712.5	1745.0	1777.5
	10	1715.0	1745.0	1775.0
	15	1717.5	1745.0	1772.5
	20	1720.0	1745.0	1770.0
Test mode:	Nominal Bandwidth (MHz)	RF Channel		
		Low (L)	Middle (M)	High (H)
		MHz	MHz	MHz
n 71	5	665.5	680.5	695.5
	10	668.0	680.5	693.0
	15	670.5	680.5	690.5
	20	673.0	680.5	688.0



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**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	3.5 V
	VN	3.85 V
	VH	4.4 V

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:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 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. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

#### 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	2021/7/13	2022/7/12
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2021/7/13	2022/7/12
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2021/7/13	2022/7/12
Measurement Software	TST	TST PASS V2.0	N/A	N/A	N/A
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021/7/13	2022/7/12
Radio Communication Test Station	Anritsu	MT8000A	SEM010-20	2022/03/29	2023/03/28
Radio Communication Test Station	Anritsu	MT8821C	SEM010-21	2022/03/29	2023/03/28
Power Sensor	KEYSIGHT	U2021XA	SEM009-15	2021/07/13	2022/07/12

RE in Chamber					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
MXE EMI receiver	Agilent	N9038A	SEM004-05	2021/7/13	2022/7/12
Pre-amplifier	HP	8447D	SEM005-02	2021/7/13	2022/7/12
Spectrum Analyzer	Rohde & Schwarz	101288	SEM004-08	2021/7/13	2022/7/12
Low Noise Amplifier	CLAVIIO	BDLNA-0118-352810	SEM005-05	2021/7/13	2022/7/12
Substitution Antenna	Schwarzbeck	VULB9168	SEM003-18	2019/08/08	2022/08/07
Signal Generator(9kHz-40GHz)	N5173B	MY53270267	Agilent	2021/7/13	2022/7/12
Pre-amplifier	HP	8447D	SEM005-02	2021/7/13	2022/7/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2021/7/11	2024/7/10
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
Double-ridged waveguide horn	ETS-LINDGREN	3117	SEM003-34	2021/9/25	2024/9/24
Spectrum Analyzer	Rohde & Schwarz	101288	SEM004-08	2021/7/13	2022/7/12
Low Noise Amplifier	CLAVIIO	BDLNA-0118-352810	SEM005-05	2021/7/13	2022/7/12



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Pre-amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2021/7/13	2022/7/12
Pre-amplifier	Rohde & Schwarz	CH14-H052	SEM005-17	2021/7/13	2022/7/12
Substitution Antenna	ETS-Lindgren	3142C	SEM003-01	2020/06/26	2023/06/25
Radio Communication Test Station	Anritsu	MT8000A	SEM010-20	2022/03/29	2023/03/28
Radio Communication Test Station	Anritsu	MT8821C	SEM010-21	2022/03/29	2023/03/28

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2021/07/13	2022/07/12
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2021/07/13	2022/07/12
Barometer	DUMAI	DYM3	SEM002-24	2021/07/13	2022/07/12



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## 6 Radio Spectrum Matter Test Results

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

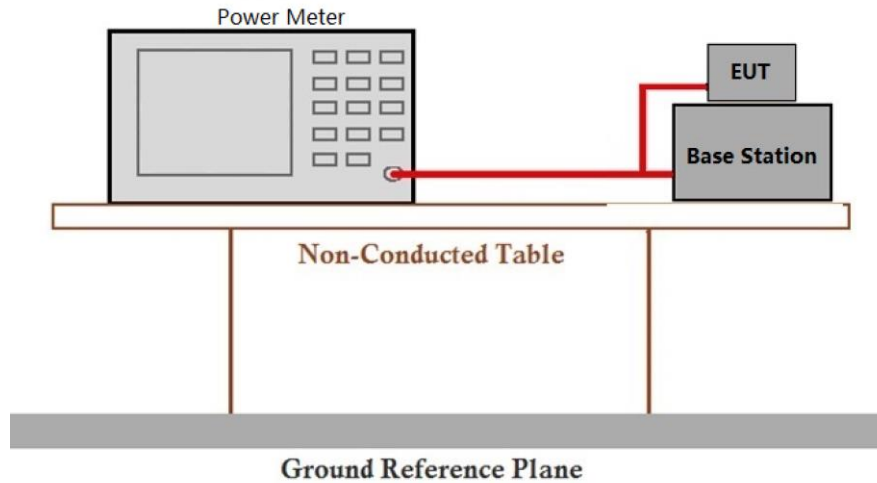
Test Requirement: §2.1046, §22.913, §24.232, §27.50(c), §27.50(d), §27.50(h)  
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01  
 Limit: ERP ≤ 7W(n5)  
 EIRP ≤ 2W(n2)  
 ERP ≤ 3W(n71)  
 EIRP ≤ 1W(n66)  
 EIRP ≤ 2W(n41)

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

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % 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 NR test data.



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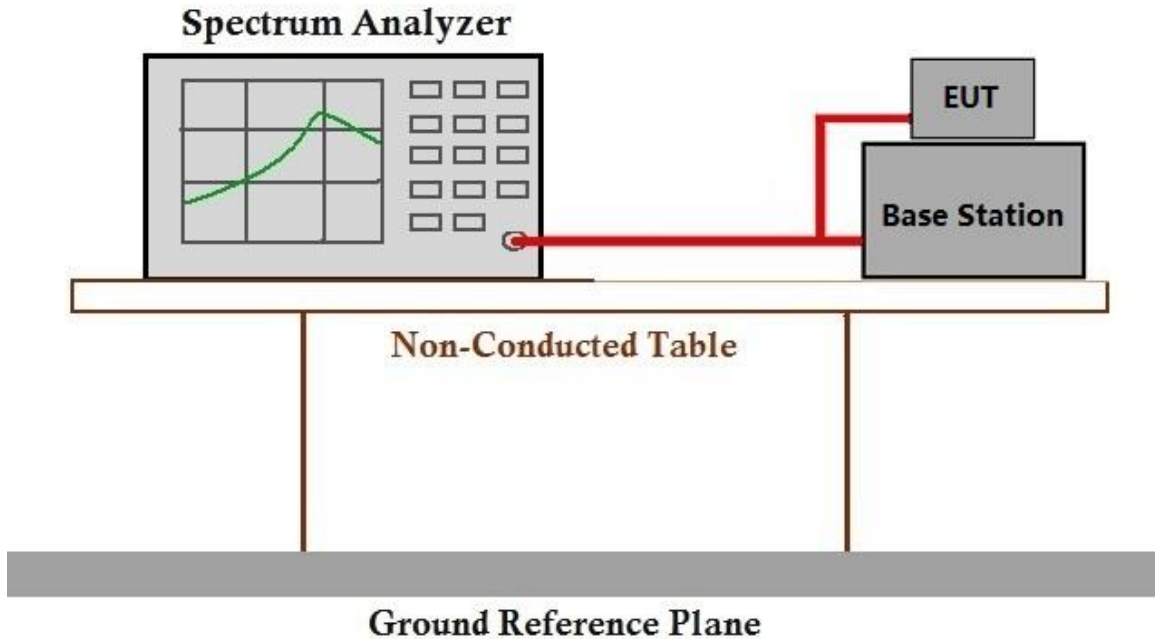
**6.2 Peak-Average Ratio**

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

**6.2.1 E.U.T. Operation**

Operating Environment:  
 Temperature: 21.5 °C Humidity: 53.5 % 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 NR test data.



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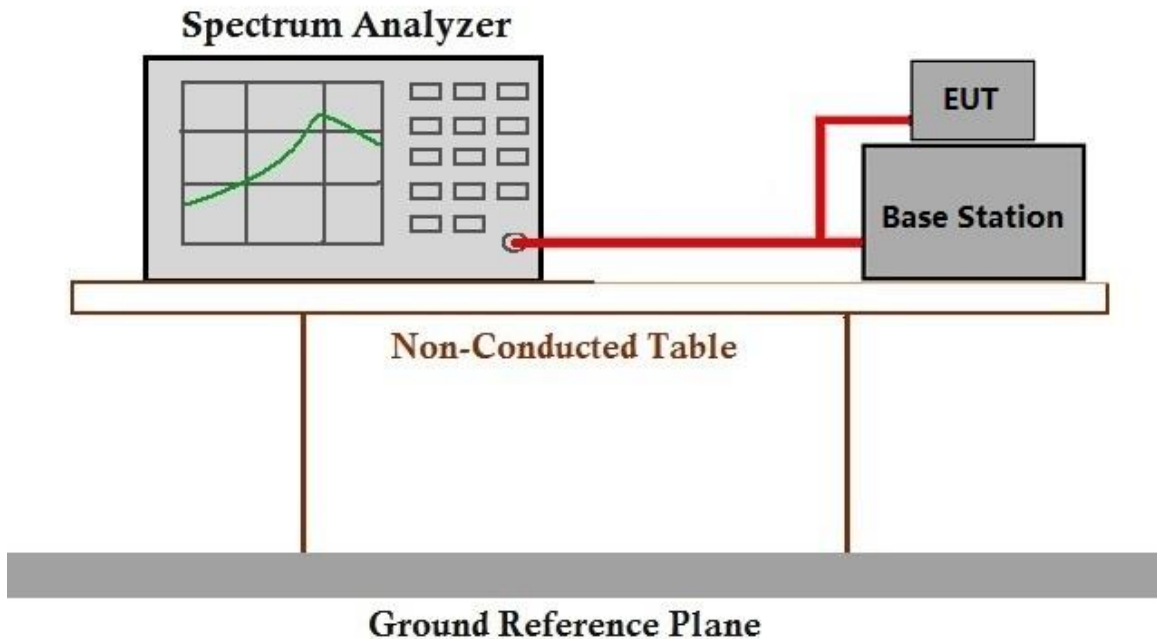
**6.3 Bandwidth**

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 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 NR test data.



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**6.4 Band Edge Compliance**

Test Requirement: §2.1051, §22.917, §24.238, §27.50(g), §27.50(h), §27.50(m)  
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01  
 Limit: ≤ -13dBm (n2, n5, n66, n71)

**For n41:**

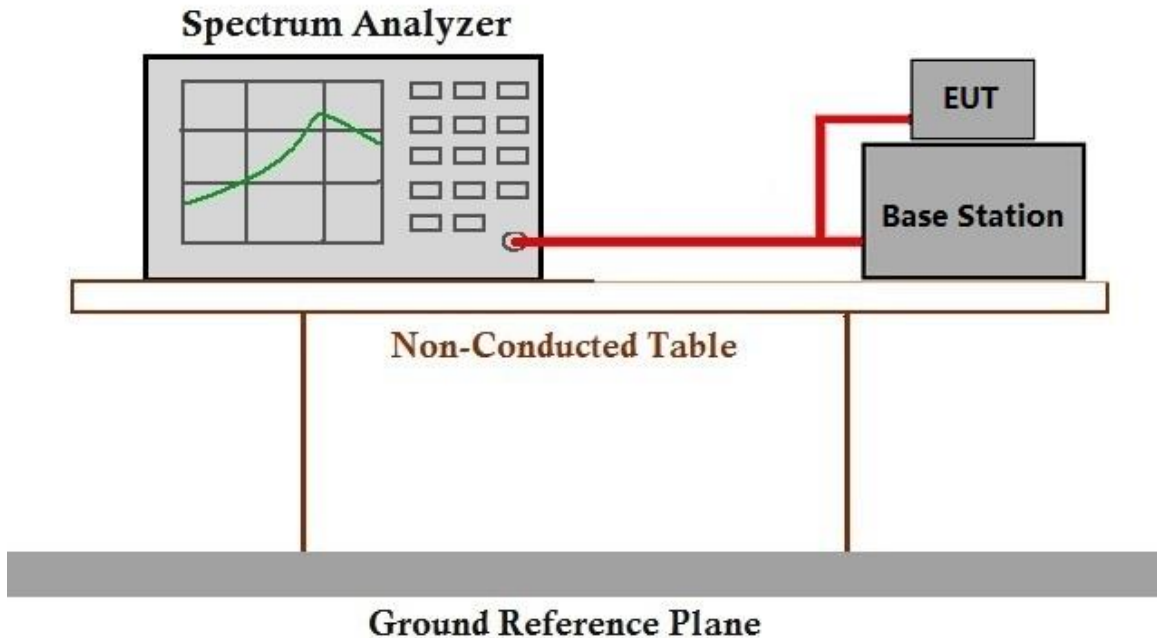
For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

**6.4.1 E.U.T. Operation**

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % 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 NR test data.



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**6.5 Spurious emissions at antenna terminals**

Test Requirement: §2.1051, §22.917, §24.238, §27.50(g), §27.50(h), §27.50(m)

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

Limit: ≤ -13dBm (n2,n5,n66,n71)

For n41:

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

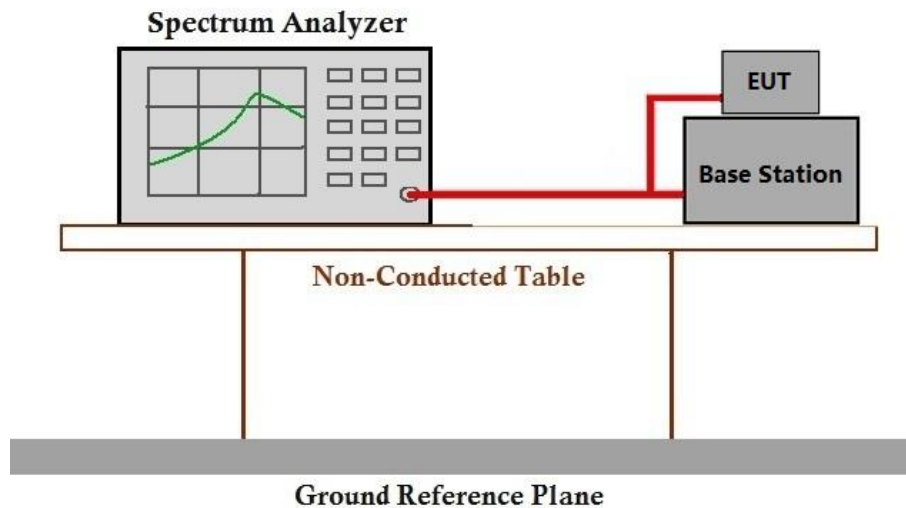
**6.5.1 E.U.T. Operation**

Operating Environment:

Temperature: 21.5 °C Humidity: 53.5 % 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 NR test data.



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### 6.6 Field strength of spurious radiation

Test Requirement: §2.1051, §22.917, §24.238, §27.50(g), §27.50(h), §27.50(m)

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

Limit: ≤ -13dBm (**n2,n5,n66,n71**)

For **n41**:

For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than 43 + 10 log (P) dB on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

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

Operating Environment:

Temperature: 18.5 °C      Humidity: 39.5 % RH      Atmospheric Pressure: 1020 mbar

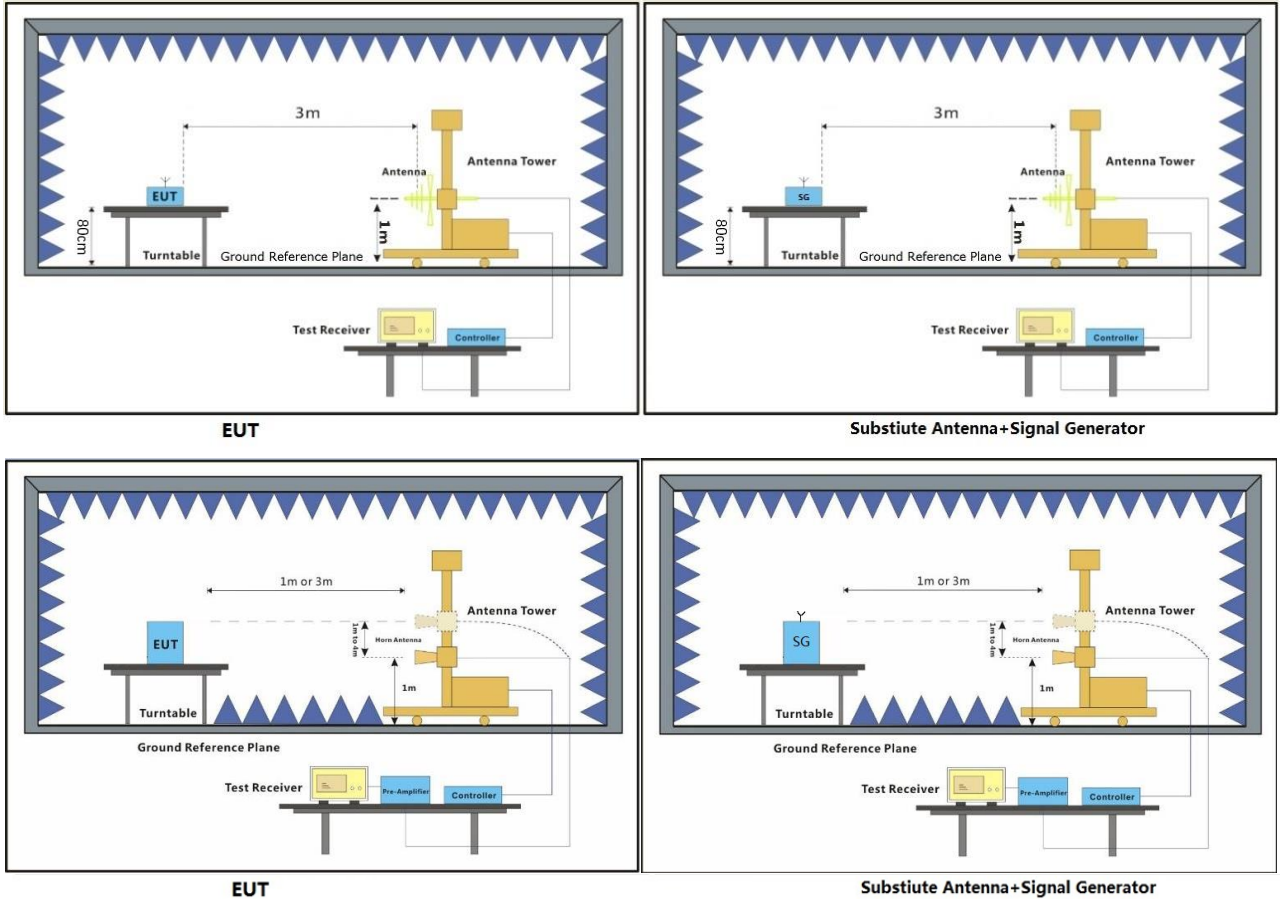
Test mode      30: Tx mode, Keep the EUT in transmitting mode.



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**6.6.2 Test Setup Diagram**



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**6.6.3 Measurement Procedure and Data**

**Test Procedure:**

- (1) On a test site, the EUT shall be placed on a turntable and in the position closest to the normal use as declared by the user.
- (2) The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the transmitter.
- (3) The output of the antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- (4) The transmitter shall be switched on; if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- (5) The test antenna shall be raised and lowered through the specified range of height until the measuring receiver detects a maximum signal level.
- (6) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- (7) The test antenna shall be raised and lowered again through the specified range of height until the measuring receiver detects a maximum signal level.
- (8) The maximum signal level detected by the measuring receiver shall be noted.
- (9) The measurement shall be repeated with the test antenna set to horizontal polarization.
- (10) Replace the antenna with a proper Antenna (substitution antenna).
- (11) The substitution antenna shall be oriented for vertical polarization and, if necessary, the length of the substitution antenna shall be adjusted to correspond to the frequency of transmitting.
- (12) The substitution antenna shall be connected to a calibrated signal generator.
- (13) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- (14) The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- (15) The input signal to substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- (16) The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- (17) The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.



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n2-Low channel, Modulation: Pi/2-BPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3702	-48.03	-13	-35.03	-50.25	6.99	9.21	Horizontal	Pass
5553	-47.61	-13	-34.61	-49.93	8.27	10.59	Horizontal	Pass
7404	-46.57	-13	-33.57	-50.11	8.19	11.73	Horizontal	Pass
3702	-49.2	-13	-36.2	-51.42	6.99	9.21	Vertical	Pass
5553	-47.33	-13	-34.33	-49.65	8.27	10.59	Vertical	Pass
7404	-45.78	-13	-32.78	-49.32	8.19	11.73	Vertical	Pass

n2-Middle channel, Modulation: Pi/2-BPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3742	-51.14	-13	-38.14	-53.36	6.99	9.21	Horizontal	Pass
5613	-48.83	-13	-35.83	-51.15	8.27	10.59	Horizontal	Pass
7484	-46.25	-13	-33.25	-49.79	8.19	11.73	Horizontal	Pass
3742	-51.51	-13	-38.51	-53.73	6.99	9.21	Vertical	Pass
5613	-47.27	-13	-34.27	-49.59	8.27	10.59	Vertical	Pass
7484	-41.75	-13	-28.75	-45.29	8.19	11.73	Vertical	Pass

n2-High channel, Modulation: Pi/2-BPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3782	-49.68	-13	-36.68	-51.9	6.99	9.21	Horizontal	Pass
5673	-49.14	-13	-36.14	-51.46	8.27	10.59	Horizontal	Pass
7564	-42.97	-13	-29.97	-46.8	8.43	12.26	Horizontal	Pass
3782	-46.84	-13	-33.84	-49.06	6.99	9.21	Vertical	Pass
5673	-46.1	-13	-33.1	-48.42	8.27	10.59	Vertical	Pass
7564	-43.25	-13	-30.25	-47.08	8.43	12.26	Vertical	Pass



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n5-Low channel, Modulation: Pi/2-BPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1650	-57.74	-13	-44.74	-61.4	3.77	7.43	Horizontal	Pass
2475	-56.11	-13	-43.11	-58.44	4.75	7.08	Horizontal	Pass
3300	-51.31	-13	-38.31	-53.89	5.72	8.3	Horizontal	Pass
1650	-59.92	-13	-46.92	-61.27	3.77	7.43	Vertical	Pass
2475	-53.85	-13	-40.85	-56.87	4.75	7.08	Vertical	Pass
3300	-51.7	-13	-38.7	-54.66	5.72	8.3	Vertical	Pass

n5-Middle channel, Modulation: Pi/2-BPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1655	-56.44	-13	-43.44	-60.1	3.77	7.43	Horizontal	Pass
2482.5	-55.22	-13	-42.22	-57.55	4.75	7.08	Horizontal	Pass
3310	-50.9	-13	-37.9	-53.48	5.72	8.3	Horizontal	Pass
1655	-55.46	-13	-42.46	-61.27	3.77	7.43	Vertical	Pass
2482.5	-54.71	-13	-41.71	-56.87	4.75	7.08	Vertical	Pass
3310	-51.52	-13	-38.52	-54.66	5.72	8.3	Vertical	Pass

n5-High channel, Modulation: Pi/2-BPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1660	-57.19	-13	-44.19	-60.85	3.77	7.43	Horizontal	Pass
2490	-54.79	-13	-41.79	-57.12	4.75	7.08	Horizontal	Pass
3320	-51.27	-13	-38.27	-53.85	5.72	8.3	Horizontal	Pass
1660	-58.69	-13	-45.69	-61.27	3.77	7.43	Vertical	Pass
2490	-55.52	-13	-42.52	-56.87	4.75	7.08	Vertical	Pass
3320	-49.51	-13	-36.51	-54.66	5.72	8.3	Vertical	Pass



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n41-Low channel, Modulation: Pi/2-BPSK, Bandwidth: 100MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5092.02	-36.56	-25	-11.56	-38.56	8.3	10.3	Horizontal	Pass
7638.03	-45.03	-25	-20.03	-48.86	8.43	12.26	Horizontal	Pass
10184.04	-43.68	-25	-18.68	-45.93	11.12	13.37	Horizontal	Pass
5092.02	-38.69	-25	-13.69	-40.69	8.3	10.3	Vertical	Pass
7638.03	-44.96	-25	-19.96	-48.79	8.43	12.26	Vertical	Pass
10184.04	-42.38	-25	-17.38	-44.63	11.12	13.37	Vertical	Pass

n41-Middle channel, Modulation: Pi/2-BPSK, Bandwidth: 100MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5185.98	-34.36	-25	-9.36	-36.36	8.3	10.3	Horizontal	Pass
7778.97	-44.04	-25	-19.04	-47.87	8.43	12.26	Horizontal	Pass
10371.96	-41.98	-25	-16.98	-44.23	11.12	13.37	Horizontal	Pass
5185.98	-36.34	-25	-11.34	-38.34	8.3	10.3	Vertical	Pass
7778.97	-45.79	-25	-20.79	-49.62	8.43	12.26	Vertical	Pass
10371.96	-42.74	-25	-17.74	-44.99	11.12	13.37	Vertical	Pass

n41-High channel, Modulation: Pi/2-BPSK, Bandwidth: 100MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
5280	-33.12	-25	-8.12	-35.12	8.3	10.3	Horizontal	Pass
7920	-43	-25	-18	-46.83	8.43	12.26	Horizontal	Pass
10560	-41.38	-25	-16.38	-43.8	11.06	13.48	Horizontal	Pass
5280	-36.1	-25	-11.1	-38.1	8.3	10.3	Vertical	Pass
7920	-43.47	-25	-18.47	-47.3	8.43	12.26	Vertical	Pass
10560	-41.94	-25	-16.94	-44.36	11.06	13.48	Vertical	Pass



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n66-Low channel, Modulation: Pi/2-BPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3422	-51.33	-13	-38.33	-53.91	5.72	8.3	Horizontal	Pass
5133	-48.29	-13	-35.29	-50.29	8.3	10.3	Horizontal	Pass
6844	-46.68	-13	-33.68	-50.23	7.7	11.25	Horizontal	Pass
3422	-49.02	-13	-36.02	-51.6	5.72	8.3	Vertical	Pass
5133	-45.91	-13	-32.91	-47.91	8.3	10.3	Vertical	Pass
6844	-47.98	-13	-34.98	-51.53	7.7	11.25	Vertical	Pass

n66-Middle channel, Modulation: Pi/2-BPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3447	-50.59	-13	-37.59	-53.17	5.72	8.3	Horizontal	Pass
5170.5	-47.22	-13	-34.22	-49.22	8.3	10.3	Horizontal	Pass
6894	-44.96	-13	-31.96	-48.51	7.7	11.25	Horizontal	Pass
3447	-52.19	-13	-39.19	-54.77	5.72	8.3	Vertical	Pass
5170.5	-46.6	-13	-33.6	-48.6	8.3	10.3	Vertical	Pass
6894	-45.08	-13	-32.08	-48.63	7.7	11.25	Vertical	Pass

n66-High channel, Modulation: Pi/2-BPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
3472	-49.03	-13	-36.03	-51.61	5.72	8.3	Horizontal	Pass
5208	-45.56	-13	-32.56	-47.56	8.3	10.3	Horizontal	Pass
6944	-46.36	-13	-33.36	-49.91	7.7	11.25	Horizontal	Pass
3472	-51.45	-13	-38.45	-54.03	5.72	8.3	Vertical	Pass
5208	-48.55	-13	-35.55	-50.55	8.3	10.3	Vertical	Pass
6944	-46.39	-13	-33.39	-49.94	7.7	11.25	Vertical	Pass



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n71-Low channel, Modulation: Pi/2-BPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1328	-52.09	-13	-39.09	-54.62	2.64	5.17	Horizontal	Pass
1992	-46.51	-13	-33.51	-50.17	3.77	7.43	Horizontal	Pass
2656	-46.71	-13	-33.71	-49.18	5.13	7.6	Horizontal	Pass
1328	-49.76	-13	-36.76	-52.29	2.64	5.17	Vertical	Pass
1992	-46.95	-13	-33.95	-50.61	3.77	7.43	Vertical	Pass
2656	-47.91	-13	-34.91	-50.38	5.13	7.6	Vertical	Pass

n71-Middle channel, Modulation: Pi/2-BPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1343	-51.67	-13	-38.67	-54.2	2.64	5.17	Horizontal	Pass
2014.5	-48.92	-13	-35.92	-51.25	4.75	7.08	Horizontal	Pass
2686	-45.9	-13	-32.9	-48.37	5.13	7.6	Horizontal	Pass
1343	-51.43	-13	-38.43	-53.96	2.64	5.17	Vertical	Pass
2014.5	-45.37	-13	-32.37	-47.7	4.75	7.08	Vertical	Pass
2686	-45.97	-13	-32.97	-48.44	5.13	7.6	Vertical	Pass

n71-High channel, Modulation: Pi/2-BPSK, Bandwidth: 20MHz, 1 RB0								
Frequency (MHz)	EIRP (dBm)	Limit(dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1358	-50.06	-13	-37.06	-52.59	2.64	5.17	Horizontal	Pass
2037	-47.29	-13	-34.29	-49.62	4.75	7.08	Horizontal	Pass
2716	-48.02	-13	-35.02	-50.49	5.13	7.6	Horizontal	Pass
1358	-52.61	-13	-39.61	-55.14	2.64	5.17	Vertical	Pass
2037	-50.17	-13	-37.17	-52.5	4.75	7.08	Vertical	Pass
2716	-45.46	-13	-32.46	-47.93	5.13	7.6	Vertical	Pass

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



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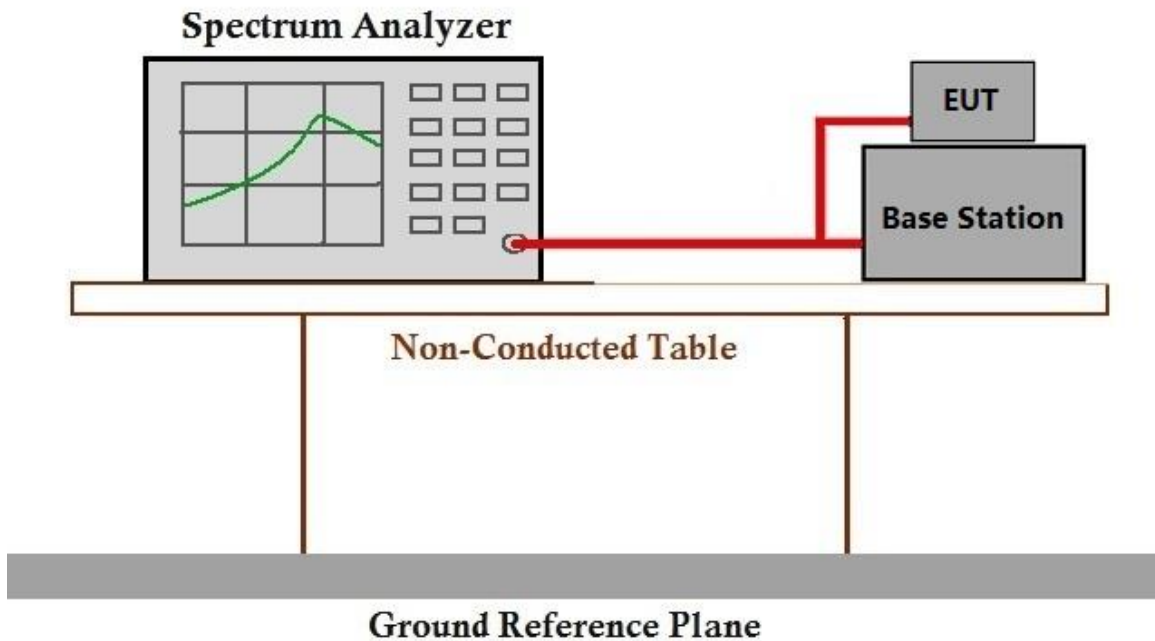
**6.7 Frequency stability**

Test Requirement: §2.1055, §22.355, §24.235, §27.54  
 Test Method: ANSI C63.26-2015, KDB 971168 D01 v03r01  
 Limit:  $\leq \pm 2.5\text{ppm}$ .

**6.7.1 E.U.T. Operation**

Operating Environment:  
 Temperature: 21.5 °C Humidity: 53.5 % 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 NR test data.



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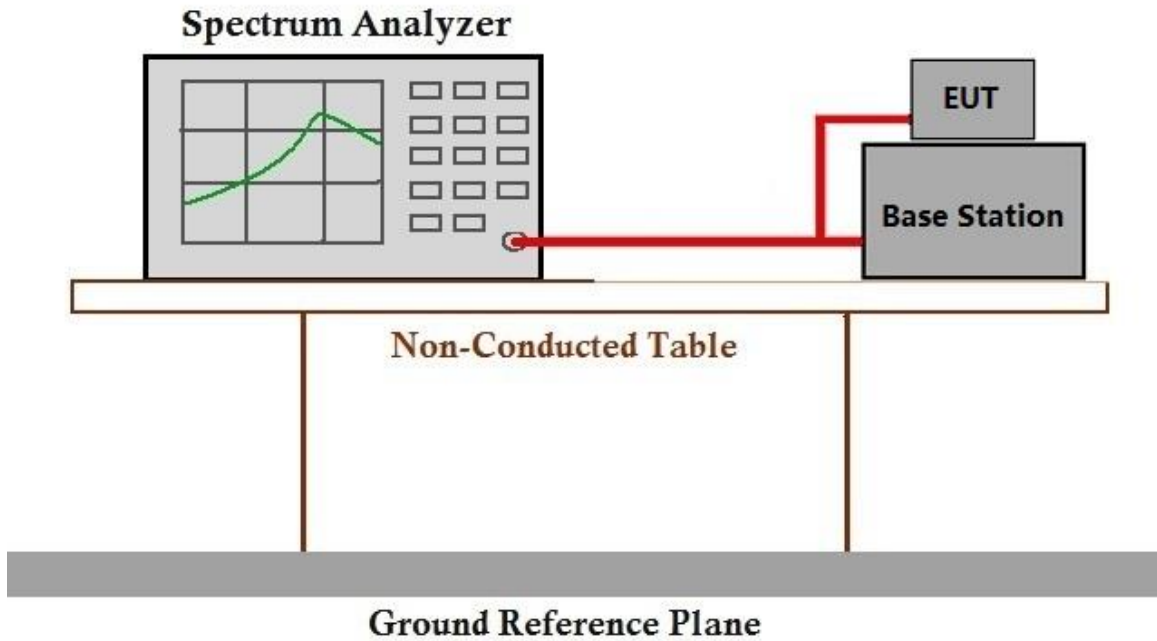
**6.8 Modulation Characteristics**

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 30: 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

Refer to Appendix - Test Setup Photo for FYCR2204000134AT

## 8 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for FYCR2204000134AT

- End of the Report -



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