

FCC TEST REPORT

(PART 24)

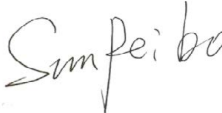
Applicant:	Beijing InHand Networks Technology Co., Ltd.
Address:	Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing China

Manufacturer or Supplier:	Beijing InHand Networks Technology Co., Ltd.
Address:	Room 501, floor 5, building 3, yard 18, ziyue road, chaoyang district, Beijing China
Product:	5G Fixed Wireless Access
Brand Name:	inhand
Model Name:	FWA12-NANR
FCC ID:	2AANY-FWA12
Date of tests:	Jan. 17, 2025 ~ Apr. 08, 2025

The tests have been carried out according to the requirements of the following standard:

☒ **FCC PART 24, Subpart E** ☒ **FCC PART 2**
☒ **ANSI/TIA/EIA-603-D** ☒ **ANSI/TIA/EIA-603-E** ☒ **ANSI C63.26-2015**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Hanwen Xu Engineer / Mobile Department	Approved by Peibo Sun Manager / Mobile Department
	
Date: Apr. 08, 2025	Date: Apr. 08, 2025

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
PSU-NQN2502170113RF02	Original release	Apr. 08, 2025

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 24 & Part 2		
STANDARD SECTION	TEST TYPE	RESULT
§2.1046	Conducted Output Power	Compliance
§24.232(c)	Equivalent Isotropic Radiated Power	Compliance
§2.1055 §24.235	Frequency Stability	Compliance
§2.1049	Occupied Bandwidth	Compliance
§24.232(d)	Peak to average ratio	Compliance
§24.238(a)(b)	Band Edge Measurements	Compliance
§2.1051 §24.238(a)(b)	Conducted Spurious Emissions	Compliance
§2.1053 §24.238(a)(b)	Radiated Spurious Emissions	Compliance

*Test Lab Information Reference

Lab A:

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province

Accredited Test Lab Cert 6613.01

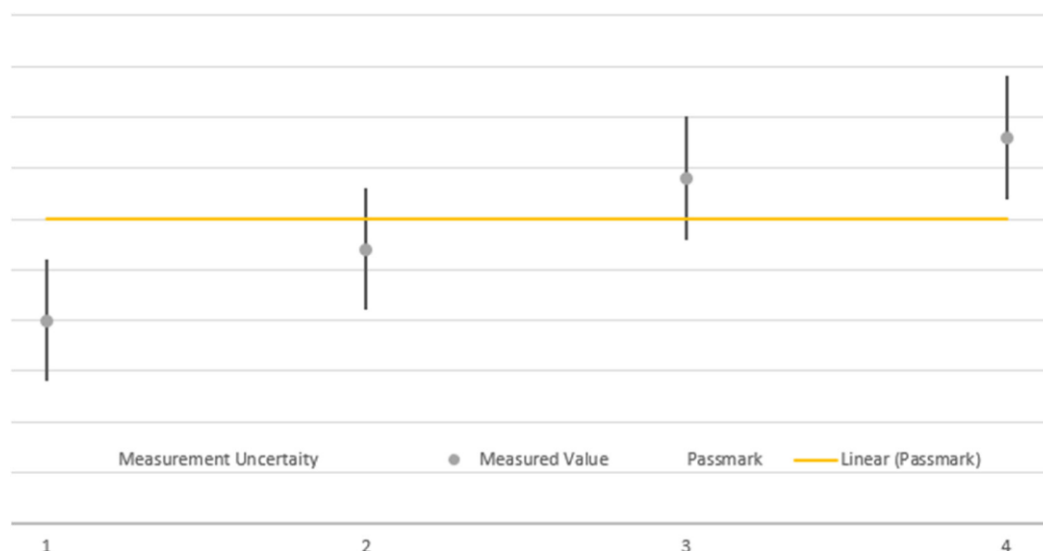
The FCC Site Registration No. is 434559; The Designation No. is CN1325.

1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	UNCERTAINTY
Frequency Stability	$\pm 76.97\text{Hz}$
Radiated emissions (9KHz~30MHz)	$\pm 2.68\text{dB}$
Radiated emissions & Radiated Power (30MHz~1GHz)	$\pm 4.98\text{dB}$
Radiated emissions & Radiated Power (1GHz ~6GHz)	$\pm 4.70\text{dB}$
Radiated emissions (6GHz ~18GHz)	$\pm 4.60\text{dB}$
Radiated emissions (18GHz ~40GHz)	$\pm 4.12\text{dB}$
Conducted emissions	$\pm 4.01\text{dB}$
Occupied Channel Bandwidth	$\pm 43.58\text{KHz}$
Conducted Output power	$\pm 2.06\text{dB}$
Band Edge Measurements	$\pm 4.70\text{dB}$
Peak to average ratio	$\pm 0.76\text{dB}$

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.



The verdicts in this test report are given according the above diagram:

Case	Measured Value	Uncertainty Range	Verdict
1	below pass mark	below pass mark	Passed
2	below pass mark	within pass mark	Passed
3	above pass mark	within pass mark	Failed
4	above pass mark	above pass mark	Failed

That means, the laboratory applies, as decision rule (see ISO/IEC 17025:2017), the so-called shared risk principle.

**1.2 TEST SITE AND INSTRUMENTS**

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Pre-Amplifier	R&S	SCU18F1	100815	Aug.30,23	Aug.29,25
Pre-Amplifier	R&S	SCU08F1	101028	Jan.22,24	Jan.21,26
Vector Signal Generator	R&S	SMBV100B	102176	Mar.29,24	Mar.28,26
Signal Generator	R&S	SMB100A	182185	Mar.29,24	Mar.28,26
3m Fully-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-01Chamber	Nov.25,22	Nov.24,25
3m Semi-anechoic Chamber	TDK	9m*6m*6m	HRSW-SZ-EMC-02Chamber	Nov.25,22	Nov.24,25
EMI TEST Receiver	R&S	ESR26	101734	Mar.28,24	Mar.27,26
EMI TEST Receiver	R&S	ESW44	101973	Mar.28,24	Mar.27,26
Bilog Antenna	SCHWARZBECK	VULB 9163	1264	Dec.26,23	Dec.25,25
Horn Antenna	ETS-LINDGREN	3117	227836	Aug.22,23	Aug.21,25
Horn Antenna (18GHz-40GHz)	Steatite Q-par Antennas	QMS 00880	23486	Jul.15,24	Jul.14,26
Horn Antenna	Steatite Q-par Antennas	QMS 00208	23485	Aug.22,23	Aug.21,25
Loop Antenna	SCHWARZ	HFH2-Z2/Z2E	100976	Feb.23,25	Feb.22,27
WIDEBANDRADIO COMMUNICATION TESTER	R&S	CMW500	169399	Jun.19,24	Jun.18,26
Test Software	EMC32	EMC32	N/A	N/A	N/A
6DB attenuator	Tonscend Technology Co., Ltd	N/A	23062787	N/A	N/A
Test Software	ELEKTRA	ELEKTRA4.32	N/A	N/A	N/A
Open Switch and Control Unit	R&S	OSP220	101964	N/A	N/A
DC Source	HYELEC	HY3010B	551016	Aug.31,23	Aug.30,25
Hygrothermograph	DELI	20210528	SZ014	Sep.06,23	Sep.05,25
PC	LENOVO	E14	HRSW0024	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-7.00M	N/A	N/A	N/A
TMC-AMI18843A(CABLE)	R&S	HF290-NMNM-4.00M	N/A	N/A	N/A
CABLE	R&S	W13.02	N/A	Apr.27,24	Apr.26,25
CABLE	R&S	W12.14	N/A	Apr.27,24	Apr.26,25
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Apr.27,24	Apr.26,25
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Apr.27,24	Apr.26,25
Temperature Chamber	votsch	VT4002	58566078100050	May.30,24	May.29,26



Test Report No.: PSU-NQN2502170113RF02

- NOTE:**
1. The calibration interval of the above test instruments is 12 / 24/ 36 months and the calibrations are traceable to CEPREI/CHINA, GREGT/CHINA and NIM/CHINA.
 2. The test was performed in 3m Semi-anechoic Chamber and RF Oven Room.
 3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
 4. The FCC Site Registration No. is 434559; The Designation No. is CN1325.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT*	5G Fixed Wireless Access	
BRAND NAME*	inhand	
MODEL NAME*	FWA12-NANR	
NOMINAL VOLTAGE*	12.0Vdc(adapter or host equipment)	
MODULATION TYPE*	LTE Band 2/25: QPSK, 16QAM, 64QAM, 256QAM	
FREQUENCY RANGE	LTE Band 2 Channel Bandwidth: 1.4MHz	1850.7MHz ~ 1909.3MHz
	LTE Band 2 Channel Bandwidth: 3MHz	1851.5MHz ~ 1908.5MHz
	LTE Band 2 Channel Bandwidth: 5MHz	1852.5MHz ~ 1907.5MHz
	LTE Band 2 Channel Bandwidth: 10MHz	1855.0MHz ~ 1905.0MHz
	LTE Band 2 Channel Bandwidth: 15MHz	1857.5MHz ~ 1902.5MHz
	LTE Band 2 Channel Bandwidth: 20MHz	1860.0MHz ~ 1900.0MHz
	LTE Band 25 Channel Bandwidth: 1.4MHz	1850.7MHz ~ 1914.3MHz
	LTE Band 25 Channel Bandwidth: 3MHz	1851.5MHz ~ 1913.5MHz
	LTE Band 25 Channel Bandwidth: 5MHz	1852.5MHz ~ 1912.5MHz
	LTE Band 25 Channel Bandwidth: 10MHz	1855.0MHz ~ 1910.0MHz
	LTE Band 25 Channel Bandwidth: 15MHz	1857.5MHz ~ 1907.5MHz
	LTE Band 25 Channel Bandwidth: 20MHz	1860.0MHz ~ 1905.0MHz
MAX. ERP POWER	LTE Band 2 Channel Bandwidth: 15MHz	354mW
	LTE Band 25 Channel Bandwidth: 3MHz	380.2mW
ANTENNA TYPE*	5G external antenna with 2.36dBi(Max) gain for LTE B2/ LTE B25	
HW VERSION*	N/A	
SW VERSION*	V2.0	
I/O PORTS*	Refer to user's manual	



EXTREME TEMPERATURE*	-10°C~50 °C
EXTREME VOLTAGE*	9 Vdc~14Vdc

NOTE1: This product uses the module model RG620T-NA and supports LTE frequency bands 2/4/5/7/12/13/14/17/25/26/30/38/41/42/43/48/66/70/71. Therefore, for this product, we referred to the test data reported by the RG620T-NA module and reevaluated the spectrum of radiated emissions and EIRP.

For module RG620T-NA: Report No.: SEWM2311000473RG

FCC ID : XMR2024RG620TNA

NOTE2:

1. *Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, Test Lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
2. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
3. The EUT incorporates a SISO function. Physically, the EUT provides eight completed transmitter and eight receiver.

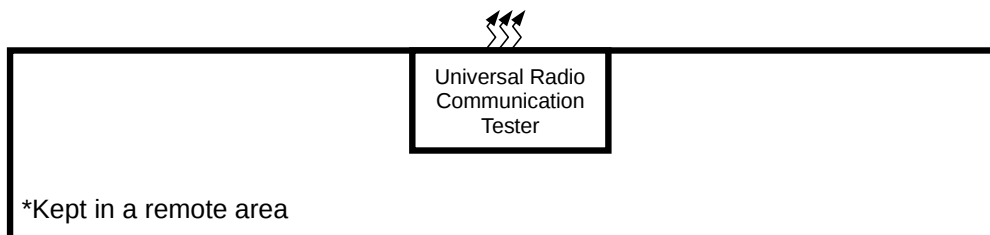
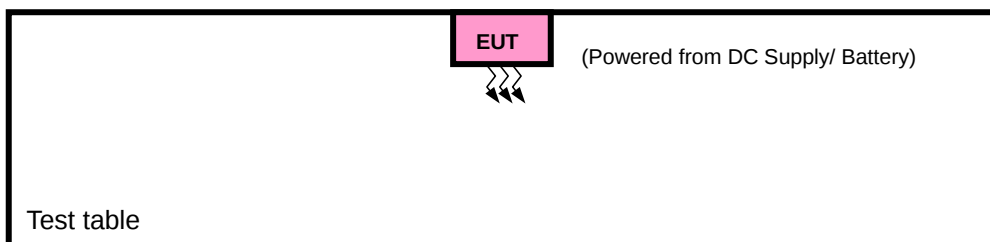
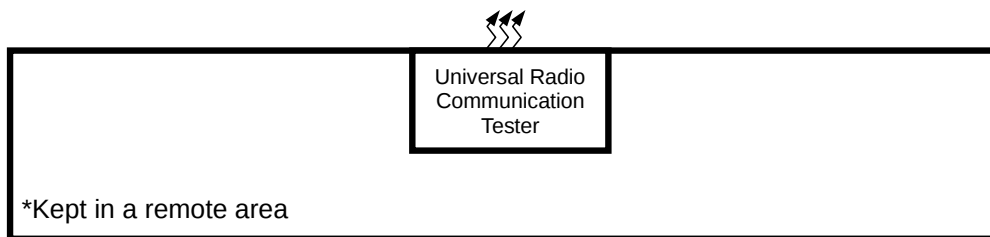
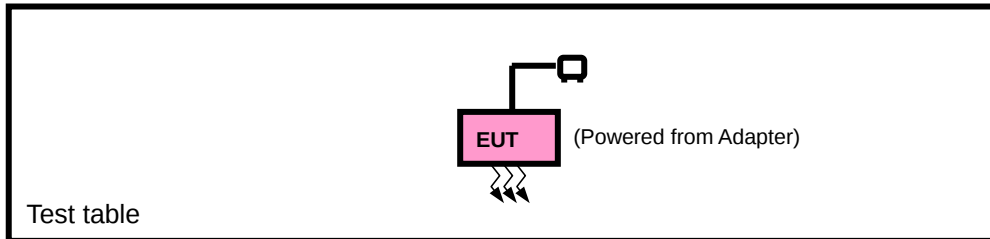
MODULATION MODE	TX FUNCTION
LTE	8TX/8RX

4. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
5. Antenna gain and EUT conducted cable loss are provided by the customer, and the laboratory will record the results based on these items that involve these two parameters.



2.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST





2.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	DC Source	HYELEC	HY3010B	551016	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	DC Line: Unshielded, Detachable 1.0m

2.4 TEST ITEM AND TEST CONFIGURATION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case in ERP and radiated emission was found when positioned on X-plane for LTE. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + Adapter with LTE link
B	EUT + DC Supply with LTE link

LTE BAND 2 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
		18615 to 19185	18615, 18900, 19185	3MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
		18650 to 19150	18650, 18900, 19150	10MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset

Note: 1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

2. LTE Band 2 are covered by LTE Band 25, Because it is a subset of LTE Band 25 with the same output power and supported bandwidths, So the conducted test data and RSE test data please refer to LTE Band 25



LTE BAND 25 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	EIRP	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
		26090 to 26640	26090, 26365 26640	10MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
B	FREQUENCY STABILITY	26090 to 26640	26090, 26365 26640	10MHz	QPSK,16QAM,64QAM,256QAM	50 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK,16QAM,64QAM,256QAM	6 RB / 0 RB Offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK,16QAM,64QAM,256QAM	15 RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK,16QAM,64QAM,256QAM	25 RB / 0 RB Offset
		26090 to 26640	26090, 26365 26640	10MHz	QPSK,16QAM,64QAM,256QAM	50 RB / 0 RB Offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK,16QAM,64QAM,256QAM	75 RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK,16QAM,64QAM,256QAM	100 RB / 0 RB Offset
A	PEAK TO AVERAGE RATIO	26140 to 26590	26140, 26365, 26590	20MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset 100 RB / 0 RB Offset

A	BAND EDGE	26047 to 26683	26047	1.4MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
			26683	1.4MHz	QPSK,16QAM,64QAM,256QAM	6 RB / 0 RB Offset
		26055 to 26675	26055	3MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 5 RB Offset
			26675	3MHz	QPSK,16QAM,64QAM,256QAM	6 RB / 0 RB Offset
		26065 to 26665	26065	5MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
			26665	5MHz	QPSK,16QAM,64QAM,256QAM	15 RB / 0 RB Offset
		26090 to 26640	26090	10MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 14 RB Offset
			26640	10MHz	QPSK,16QAM,64QAM,256QAM	15 RB / 0 RB Offset
		26115 to 26615	26065	5MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
			26665	5MHz	QPSK,16QAM,64QAM,256QAM	25 RB / 0 RB Offset
		26140 to 26590	26090	10MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 24 RB Offset
			26640	10MHz	QPSK,16QAM,64QAM,256QAM	25 RB / 0 RB Offset
		26115 to 26615	26115	15MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
			26615	15MHz	QPSK,16QAM,64QAM,256QAM	50 RB / 0 RB Offset
		26140 to 26590	26115	15MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 49 RB Offset
			26615	15MHz	QPSK,16QAM,64QAM,256QAM	50 RB / 0 RB Offset
A	CONDUCTED EMISSION	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
		26090 to 26640	26090, 26365 26640	10MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
		26140 to 26590	26140, 26365, 26590	20MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
A	RADIATED EMISSION	26047 to 26683	26365	1.4MHz	QPSK	1 RB / 0 RB Offset
		26055 to 26675	26365	3MHz	QPSK	1 RB / 0 RB Offset
		26065 to 26665	26365	5MHz	QPSK	1 RB / 0 RB Offset
		26090 to 26640	26090, 26365, 26640	10MHz	QPSK	1 RB / 0 RB Offset
		26115 to 26615	26365	15MHz	QPSK	1 RB / 0 RB Offset
		26140 to 26590	26365	20MHz	QPSK	1 RB / 0 RB Offset

Note: This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
EIRP	25deg. C, 57%RH	DC12V By Adapter	Hanwen Xu
FREQUENCY STABILITY	23deg. C, 61%RH	DC 9V/12V/14V By DC Supply	--
OCCUPIED BANDWIDTH	23deg. C, 61%RH	DC12V By Adapter	--
PEAK TO AVERAGE RATIO	23deg. C, 61%RH	DC 12V By Adapter	--
BAND EDGE	23deg. C, 61%RH	DC12V By Adapter	--
CONDUCTED EMISSION	23deg. C, 61%RH	DC12V By Adapter	--
RADIATED EMISSION	23deg. C, 70%RH	DC12V By Adapter	Hanwen Xu

2.5 EUT OPERATING CONDITIONS

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

2.6 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 24

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI/TIA/EIA-603-D

ANSI/TIA/EIA-603-E

ANSI C63.26-2015

NOTE: All test items have been performed and recorded as per the above standards.

3 TEST TYPES AND RESULTS

3.1 OUTPUT POWER MEASUREMENT

3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Mobile and portable stations are limited to 2 watts EIRP.

3.1.2 TEST PROCEDURES

EIRP MEASUREMENT:

Per KDB 971168 D01 Power Meas License Digital Systems v03r01 or subclause 5.2.5.5 of ANSI C63.26-2015, the relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_T - L_C$$

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively

(expressed in the same units as P_{Meas} , typically dBW or dBm);

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

G_T = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

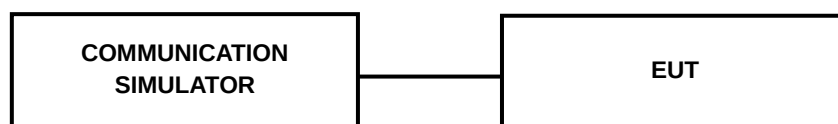
CONDUCTED POWER MEASUREMENT:

The EUT was set up for the maximum power with LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

3.1.3 TEST SETUP

EIRP / ERP Measurement:

CONDUCTED POWER MEASUREMENT:



3.1.4 TEST RESULTS

LTE BAND 2

Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)
15MHz	QPSK	19125	1RB#0	23.13	25.49	33

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi)

Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)
20MHz	QPSK	18900	1RB#0	23.02	25.38	33

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi)

Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)
20MHz	16QAM	18900	1RB#99	22.08	24.44	33

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi)



Test Report No.: PSU-NQN2502170113RF02

Band2	1.4MHz	QPSK	18607	1RB#0	22.37	24.73	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	22.58	24.94	33	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	22.51	24.87	33	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	21.53	23.89	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	21.73	24.09	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	22.67	25.03	33	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	22.79	25.15	33	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	21.70	24.06	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	22.88	25.24	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	22.84	25.20	33	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	22.82	25.18	33	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	21.89	24.25	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	21.73	24.09	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	21.82	24.18	33	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	21.74	24.10	33	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	20.47	22.83	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	21.95	24.31	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	21.76	24.12	33	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	21.75	24.11	33	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	20.73	23.09	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	21.64	24.00	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	21.88	24.24	33	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	21.86	24.22	33	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	20.65	23.01	33	PASS
Band2	1.4MHz	64QAM	18607	1RB#0	20.59	22.95	33	PASS
Band2	1.4MHz	64QAM	18607	1RB#2	20.88	23.24	33	PASS
Band2	1.4MHz	64QAM	18607	1RB#5	20.85	23.21	33	PASS
Band2	1.4MHz	64QAM	18607	6RB#0	19.60	21.96	33	PASS
Band2	1.4MHz	64QAM	18900	1RB#0	20.81	23.17	33	PASS
Band2	1.4MHz	64QAM	18900	1RB#2	20.95	23.31	33	PASS
Band2	1.4MHz	64QAM	18900	1RB#5	20.93	23.29	33	PASS
Band2	1.4MHz	64QAM	18900	6RB#0	19.54	21.90	33	PASS
Band2	1.4MHz	64QAM	19193	1RB#0	20.95	23.31	33	PASS
Band2	1.4MHz	64QAM	19193	1RB#2	21.02	23.38	33	PASS
Band2	1.4MHz	64QAM	19193	1RB#5	20.85	23.21	33	PASS
Band2	1.4MHz	64QAM	19193	6RB#0	19.63	21.99	33	PASS
Band2	1.4MHz	256QAM	18607	1RB#0	17.53	19.89	33	PASS
Band2	1.4MHz	256QAM	18607	1RB#2	17.59	19.95	33	PASS
Band2	1.4MHz	256QAM	18607	1RB#5	17.61	19.97	33	PASS
Band2	1.4MHz	256QAM	18607	6RB#0	17.42	19.78	33	PASS
Band2	1.4MHz	256QAM	18900	1RB#0	17.63	19.99	33	PASS
Band2	1.4MHz	256QAM	18900	1RB#2	17.69	20.05	33	PASS
Band2	1.4MHz	256QAM	18900	1RB#5	17.65	20.01	33	PASS



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Test Report No.: PSU-NQN2502170113RF02

Band2	1.4MHz	256QAM	18900	6RB#0	17.57	19.93	33	PASS
Band2	1.4MHz	256QAM	19193	1RB#0	17.80	20.16	33	PASS
Band2	1.4MHz	256QAM	19193	1RB#2	17.75	20.11	33	PASS
Band2	1.4MHz	256QAM	19193	1RB#5	17.80	20.16	33	PASS
Band2	1.4MHz	256QAM	19193	6RB#0	17.67	20.03	33	PASS
Band2	3MHz	QPSK	18615	1RB#0	22.55	24.91	33	PASS
Band2	3MHz	QPSK	18615	1RB#8	22.58	24.94	33	PASS
Band2	3MHz	QPSK	18615	1RB#14	22.45	24.81	33	PASS
Band2	3MHz	QPSK	18615	15RB#0	21.50	23.86	33	PASS
Band2	3MHz	QPSK	18900	1RB#0	22.82	25.18	33	PASS
Band2	3MHz	QPSK	18900	1RB#8	22.61	24.97	33	PASS
Band2	3MHz	QPSK	18900	1RB#14	22.82	25.18	33	PASS
Band2	3MHz	QPSK	18900	15RB#0	21.66	24.02	33	PASS
Band2	3MHz	QPSK	19185	1RB#0	22.63	24.99	33	PASS
Band2	3MHz	QPSK	19185	1RB#8	22.64	25.00	33	PASS
Band2	3MHz	QPSK	19185	1RB#14	22.77	25.13	33	PASS
Band2	3MHz	QPSK	19185	15RB#0	21.69	24.05	33	PASS
Band2	3MHz	16QAM	18615	1RB#0	21.64	24.00	33	PASS
Band2	3MHz	16QAM	18615	1RB#8	21.69	24.05	33	PASS
Band2	3MHz	16QAM	18615	1RB#14	21.78	24.14	33	PASS
Band2	3MHz	16QAM	18615	15RB#0	20.44	22.80	33	PASS
Band2	3MHz	16QAM	18900	1RB#0	21.80	24.16	33	PASS
Band2	3MHz	16QAM	18900	1RB#8	21.67	24.03	33	PASS
Band2	3MHz	16QAM	18900	1RB#14	21.69	24.05	33	PASS
Band2	3MHz	16QAM	18900	15RB#0	20.78	23.14	33	PASS
Band2	3MHz	16QAM	19185	1RB#0	21.77	24.13	33	PASS
Band2	3MHz	16QAM	19185	1RB#8	21.88	24.24	33	PASS
Band2	3MHz	16QAM	19185	1RB#14	21.75	24.11	33	PASS
Band2	3MHz	16QAM	19185	15RB#0	20.82	23.18	33	PASS
Band2	3MHz	64QAM	18615	1RB#0	20.72	23.08	33	PASS
Band2	3MHz	64QAM	18615	1RB#8	20.62	22.98	33	PASS
Band2	3MHz	64QAM	18615	1RB#14	20.78	23.14	33	PASS
Band2	3MHz	64QAM	18615	15RB#0	19.57	21.93	33	PASS
Band2	3MHz	64QAM	18900	1RB#0	20.78	23.14	33	PASS
Band2	3MHz	64QAM	18900	1RB#8	20.89	23.25	33	PASS
Band2	3MHz	64QAM	18900	1RB#14	20.84	23.20	33	PASS
Band2	3MHz	64QAM	18900	15RB#0	19.69	22.05	33	PASS
Band2	3MHz	64QAM	19185	1RB#0	21.03	23.39	33	PASS
Band2	3MHz	64QAM	19185	1RB#8	20.86	23.22	33	PASS
Band2	3MHz	64QAM	19185	1RB#14	20.91	23.27	33	PASS
Band2	3MHz	64QAM	19185	15RB#0	19.72	22.08	33	PASS
Band2	3MHz	256QAM	18615	1RB#0	17.47	19.83	33	PASS
Band2	3MHz	256QAM	18615	1RB#8	17.47	19.83	33	PASS
Band2	3MHz	256QAM	18615	1RB#14	17.45	19.81	33	PASS



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VERITAS

Test Report No.: PSU-NQN2502170113RF02

Band2	3MHz	256QAM	18615	15RB#0	17.43	19.79	33	PASS
Band2	3MHz	256QAM	18900	1RB#0	17.72	20.08	33	PASS
Band2	3MHz	256QAM	18900	1RB#8	17.80	20.16	33	PASS
Band2	3MHz	256QAM	18900	1RB#14	17.59	19.95	33	PASS
Band2	3MHz	256QAM	18900	15RB#0	17.46	19.82	33	PASS
Band2	3MHz	256QAM	19185	1RB#0	17.75	20.11	33	PASS
Band2	3MHz	256QAM	19185	1RB#8	17.67	20.03	33	PASS
Band2	3MHz	256QAM	19185	1RB#14	17.74	20.10	33	PASS
Band2	3MHz	256QAM	19185	15RB#0	17.80	20.16	33	PASS
Band2	5MHz	QPSK	18625	1RB#0	22.63	24.99	33	PASS
Band2	5MHz	QPSK	18625	1RB#12	22.53	24.89	33	PASS
Band2	5MHz	QPSK	18625	1RB#24	22.69	25.05	33	PASS
Band2	5MHz	QPSK	18625	25RB#0	21.53	23.89	33	PASS
Band2	5MHz	QPSK	18900	1RB#0	22.18	24.54	33	PASS
Band2	5MHz	QPSK	18900	1RB#12	22.65	25.01	33	PASS
Band2	5MHz	QPSK	18900	1RB#24	22.84	25.20	33	PASS
Band2	5MHz	QPSK	18900	25RB#0	21.81	24.17	33	PASS
Band2	5MHz	QPSK	19175	1RB#0	23.02	25.38	33	PASS
Band2	5MHz	QPSK	19175	1RB#12	22.78	25.14	33	PASS
Band2	5MHz	QPSK	19175	1RB#24	22.73	25.09	33	PASS
Band2	5MHz	QPSK	19175	25RB#0	21.69	24.05	33	PASS
Band2	5MHz	16QAM	18625	1RB#0	21.76	24.12	33	PASS
Band2	5MHz	16QAM	18625	1RB#12	21.63	23.99	33	PASS
Band2	5MHz	16QAM	18625	1RB#24	21.68	24.04	33	PASS
Band2	5MHz	16QAM	18625	25RB#0	20.52	22.88	33	PASS
Band2	5MHz	16QAM	18900	1RB#0	21.75	24.11	33	PASS
Band2	5MHz	16QAM	18900	1RB#12	21.92	24.28	33	PASS
Band2	5MHz	16QAM	18900	1RB#24	21.87	24.23	33	PASS
Band2	5MHz	16QAM	18900	25RB#0	20.62	22.98	33	PASS
Band2	5MHz	16QAM	19175	1RB#0	22.06	24.42	33	PASS
Band2	5MHz	16QAM	19175	1RB#12	21.92	24.28	33	PASS
Band2	5MHz	16QAM	19175	1RB#24	22.09	24.45	33	PASS
Band2	5MHz	16QAM	19175	25RB#0	20.74	23.10	33	PASS
Band2	5MHz	64QAM	18625	1RB#0	20.7	23.06	33	PASS
Band2	5MHz	64QAM	18625	1RB#12	20.92	23.28	33	PASS
Band2	5MHz	64QAM	18625	1RB#24	20.79	23.15	33	PASS
Band2	5MHz	64QAM	18625	25RB#0	19.58	21.94	33	PASS
Band2	5MHz	64QAM	18900	1RB#0	20.82	23.18	33	PASS
Band2	5MHz	64QAM	18900	1RB#12	20.74	23.10	33	PASS
Band2	5MHz	64QAM	18900	1RB#24	20.89	23.25	33	PASS
Band2	5MHz	64QAM	18900	25RB#0	19.76	22.12	33	PASS
Band2	5MHz	64QAM	19175	1RB#0	20.95	23.31	33	PASS
Band2	5MHz	64QAM	19175	1RB#12	21.00	23.36	33	PASS
Band2	5MHz	64QAM	19175	1RB#24	20.96	23.32	33	PASS



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VERITAS

Test Report No.: PSU-NQN2502170113RF02

Band2	5MHz	64QAM	19175	25RB#0	19.79	22.15	33	PASS
Band2	5MHz	256QAM	18625	1RB#0	17.57	19.93	33	PASS
Band2	5MHz	256QAM	18625	1RB#12	17.51	19.87	33	PASS
Band2	5MHz	256QAM	18625	1RB#24	17.66	20.02	33	PASS
Band2	5MHz	256QAM	18625	25RB#0	17.54	19.90	33	PASS
Band2	5MHz	256QAM	18900	1RB#0	17.86	20.22	33	PASS
Band2	5MHz	256QAM	18900	1RB#12	17.80	20.16	33	PASS
Band2	5MHz	256QAM	18900	1RB#24	17.74	20.10	33	PASS
Band2	5MHz	256QAM	18900	25RB#0	17.72	20.08	33	PASS
Band2	5MHz	256QAM	19175	1RB#0	17.76	20.12	33	PASS
Band2	5MHz	256QAM	19175	1RB#12	17.88	20.24	33	PASS
Band2	5MHz	256QAM	19175	1RB#24	17.89	20.25	33	PASS
Band2	5MHz	256QAM	19175	25RB#0	17.72	20.08	33	PASS
Band2	10MHz	QPSK	18650	1RB#0	22.60	24.96	33	PASS
Band2	10MHz	QPSK	18650	1RB#24	22.71	25.07	33	PASS
Band2	10MHz	QPSK	18650	1RB#49	22.68	25.04	33	PASS
Band2	10MHz	QPSK	18650	50RB#0	21.56	23.92	33	PASS
Band2	10MHz	QPSK	18900	1RB#0	22.87	25.23	33	PASS
Band2	10MHz	QPSK	18900	1RB#24	22.85	25.21	33	PASS
Band2	10MHz	QPSK	18900	1RB#49	22.70	25.06	33	PASS
Band2	10MHz	QPSK	18900	50RB#0	21.85	24.21	33	PASS
Band2	10MHz	QPSK	19150	1RB#0	23.06	25.42	33	PASS
Band2	10MHz	QPSK	19150	1RB#24	22.71	25.07	33	PASS
Band2	10MHz	QPSK	19150	1RB#49	22.79	25.15	33	PASS
Band2	10MHz	QPSK	19150	50RB#0	21.82	24.18	33	PASS
Band2	10MHz	16QAM	18650	1RB#0	21.82	24.18	33	PASS
Band2	10MHz	16QAM	18650	1RB#24	21.83	24.19	33	PASS
Band2	10MHz	16QAM	18650	1RB#49	21.76	24.12	33	PASS
Band2	10MHz	16QAM	18650	50RB#0	20.57	22.93	33	PASS
Band2	10MHz	16QAM	18900	1RB#0	21.81	24.17	33	PASS
Band2	10MHz	16QAM	18900	1RB#24	21.99	24.35	33	PASS
Band2	10MHz	16QAM	18900	1RB#49	21.93	24.29	33	PASS
Band2	10MHz	16QAM	18900	50RB#0	20.71	23.07	33	PASS
Band2	10MHz	16QAM	19150	1RB#0	21.87	24.23	33	PASS
Band2	10MHz	16QAM	19150	1RB#24	21.80	24.16	33	PASS
Band2	10MHz	16QAM	19150	1RB#49	21.98	24.34	33	PASS
Band2	10MHz	16QAM	19150	50RB#0	20.85	23.21	33	PASS
Band2	10MHz	64QAM	18650	1RB#0	20.76	23.12	33	PASS
Band2	10MHz	64QAM	18650	1RB#24	20.84	23.20	33	PASS
Band2	10MHz	64QAM	18650	1RB#49	20.75	23.11	33	PASS
Band2	10MHz	64QAM	18650	50RB#0	19.56	21.92	33	PASS
Band2	10MHz	64QAM	18900	1RB#0	20.94	23.30	33	PASS
Band2	10MHz	64QAM	18900	1RB#24	21.02	23.38	33	PASS
Band2	10MHz	64QAM	18900	1RB#49	21.08	23.44	33	PASS



Band2	10MHz	64QAM	18900	50RB#0	19.62	21.98	33	PASS
Band2	10MHz	64QAM	19150	1RB#0	21.03	23.39	33	PASS
Band2	10MHz	64QAM	19150	1RB#24	21.06	23.42	33	PASS
Band2	10MHz	64QAM	19150	1RB#49	20.92	23.28	33	PASS
Band2	10MHz	64QAM	19150	50RB#0	19.73	22.09	33	PASS
Band2	10MHz	256QAM	18650	1RB#0	17.60	19.96	33	PASS
Band2	10MHz	256QAM	18650	1RB#24	17.61	19.97	33	PASS
Band2	10MHz	256QAM	18650	1RB#49	17.60	19.96	33	PASS
Band2	10MHz	256QAM	18650	50RB#0	17.49	19.85	33	PASS
Band2	10MHz	256QAM	18900	1RB#0	17.74	20.10	33	PASS
Band2	10MHz	256QAM	18900	1RB#24	17.88	20.24	33	PASS
Band2	10MHz	256QAM	18900	1RB#49	17.88	20.24	33	PASS
Band2	10MHz	256QAM	18900	50RB#0	17.79	20.15	33	PASS
Band2	10MHz	256QAM	19150	1RB#0	17.86	20.22	33	PASS
Band2	10MHz	256QAM	19150	1RB#24	17.86	20.22	33	PASS
Band2	10MHz	256QAM	19150	1RB#49	17.94	20.30	33	PASS
Band2	10MHz	256QAM	19150	50RB#0	17.74	20.10	33	PASS
Band2	15MHz	QPSK	18675	1RB#0	22.56	24.92	33	PASS
Band2	15MHz	QPSK	18675	1RB#38	22.51	24.87	33	PASS
Band2	15MHz	QPSK	18675	1RB#74	22.73	25.09	33	PASS
Band2	15MHz	QPSK	18675	75RB#0	21.60	23.96	33	PASS
Band2	15MHz	QPSK	18900	1RB#0	23.00	25.36	33	PASS
Band2	15MHz	QPSK	18900	1RB#38	22.68	25.04	33	PASS
Band2	15MHz	QPSK	18900	1RB#74	22.86	25.22	33	PASS
Band2	15MHz	QPSK	18900	75RB#0	21.84	24.20	33	PASS
Band2	15MHz	QPSK	19125	1RB#0	23.13	25.49	33	PASS
Band2	15MHz	QPSK	19125	1RB#38	22.82	25.18	33	PASS
Band2	15MHz	QPSK	19125	1RB#74	22.84	25.20	33	PASS
Band2	15MHz	QPSK	19125	75RB#0	21.82	24.18	33	PASS
Band2	15MHz	16QAM	18675	1RB#0	21.78	24.14	33	PASS
Band2	15MHz	16QAM	18675	1RB#38	21.82	24.18	33	PASS
Band2	15MHz	16QAM	18675	1RB#74	21.70	24.06	33	PASS
Band2	15MHz	16QAM	18675	75RB#0	20.71	23.07	33	PASS
Band2	15MHz	16QAM	18900	1RB#0	21.77	24.13	33	PASS
Band2	15MHz	16QAM	18900	1RB#38	21.97	24.33	33	PASS
Band2	15MHz	16QAM	18900	1RB#74	21.96	24.32	33	PASS
Band2	15MHz	16QAM	18900	75RB#0	20.75	23.11	33	PASS
Band2	15MHz	16QAM	19125	1RB#0	21.85	24.21	33	PASS
Band2	15MHz	16QAM	19125	1RB#38	21.80	24.16	33	PASS
Band2	15MHz	16QAM	19125	1RB#74	22.00	24.36	33	PASS
Band2	15MHz	16QAM	19125	75RB#0	20.74	23.10	33	PASS
Band2	15MHz	64QAM	18675	1RB#0	20.78	23.14	33	PASS
Band2	15MHz	64QAM	18675	1RB#38	20.80	23.16	33	PASS
Band2	15MHz	64QAM	18675	1RB#74	20.70	23.06	33	PASS



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VERITAS

Test Report No.: PSU-NQN2502170113RF02

Band2	15MHz	64QAM	18675	75RB#0	19.69	22.05	33	PASS
Band2	15MHz	64QAM	18900	1RB#0	20.89	23.25	33	PASS
Band2	15MHz	64QAM	18900	1RB#38	20.91	23.27	33	PASS
Band2	15MHz	64QAM	18900	1RB#74	20.97	23.33	33	PASS
Band2	15MHz	64QAM	18900	75RB#0	19.72	22.08	33	PASS
Band2	15MHz	64QAM	19125	1RB#0	20.98	23.34	33	PASS
Band2	15MHz	64QAM	19125	1RB#38	20.98	23.34	33	PASS
Band2	15MHz	64QAM	19125	1RB#74	21.03	23.39	33	PASS
Band2	15MHz	64QAM	19125	75RB#0	19.59	21.95	33	PASS
Band2	15MHz	256QAM	18675	1RB#0	17.69	20.05	33	PASS
Band2	15MHz	256QAM	18675	1RB#38	17.67	20.03	33	PASS
Band2	15MHz	256QAM	18675	1RB#74	17.76	20.12	33	PASS
Band2	15MHz	256QAM	18675	75RB#0	17.67	20.03	33	PASS
Band2	15MHz	256QAM	18900	1RB#0	17.72	20.08	33	PASS
Band2	15MHz	256QAM	18900	1RB#38	17.84	20.20	33	PASS
Band2	15MHz	256QAM	18900	1RB#74	17.89	20.25	33	PASS
Band2	15MHz	256QAM	18900	75RB#0	17.80	20.16	33	PASS
Band2	15MHz	256QAM	19125	1RB#0	17.67	20.03	33	PASS
Band2	15MHz	256QAM	19125	1RB#38	17.83	20.19	33	PASS
Band2	15MHz	256QAM	19125	1RB#74	17.72	20.08	33	PASS
Band2	15MHz	256QAM	19125	75RB#0	17.61	19.97	33	PASS
Band2	20MHz	QPSK	18700	1RB#0	22.46	24.82	33	PASS
Band2	20MHz	QPSK	18700	1RB#49	22.58	24.94	33	PASS
Band2	20MHz	QPSK	18700	1RB#99	22.82	25.18	33	PASS
Band2	20MHz	QPSK	18700	100RB#0	21.79	24.15	33	PASS
Band2	20MHz	QPSK	18900	1RB#0	23.02	25.38	33	PASS
Band2	20MHz	QPSK	18900	1RB#49	22.80	25.16	33	PASS
Band2	20MHz	QPSK	18900	1RB#99	22.83	25.19	33	PASS
Band2	20MHz	QPSK	18900	100RB#0	21.87	24.23	33	PASS
Band2	20MHz	QPSK	19100	1RB#0	22.91	25.27	33	PASS
Band2	20MHz	QPSK	19100	1RB#49	22.71	25.07	33	PASS
Band2	20MHz	QPSK	19100	1RB#99	22.81	25.17	33	PASS
Band2	20MHz	QPSK	19100	100RB#0	21.71	24.07	33	PASS
Band2	20MHz	16QAM	18700	1RB#0	21.84	24.20	33	PASS
Band2	20MHz	16QAM	18700	1RB#49	21.70	24.06	33	PASS
Band2	20MHz	16QAM	18700	1RB#99	22.03	24.39	33	PASS
Band2	20MHz	16QAM	18700	100RB#0	20.63	22.99	33	PASS
Band2	20MHz	16QAM	18900	1RB#0	21.67	24.03	33	PASS
Band2	20MHz	16QAM	18900	1RB#49	21.94	24.30	33	PASS
Band2	20MHz	16QAM	18900	1RB#99	22.08	24.44	33	PASS
Band2	20MHz	16QAM	18900	100RB#0	20.90	23.26	33	PASS
Band2	20MHz	16QAM	19100	1RB#0	21.91	24.27	33	PASS
Band2	20MHz	16QAM	19100	1RB#49	21.84	24.20	33	PASS
Band2	20MHz	16QAM	19100	1RB#99	21.89	24.25	33	PASS



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Band2	20MHz	16QAM	19100	100RB#0	20.76	23.12	33	PASS
Band2	20MHz	64QAM	18700	1RB#0	20.79	23.15	33	PASS
Band2	20MHz	64QAM	18700	1RB#49	20.71	23.07	33	PASS
Band2	20MHz	64QAM	18700	1RB#99	20.93	23.29	33	PASS
Band2	20MHz	64QAM	18700	100RB#0	19.59	21.95	33	PASS
Band2	20MHz	64QAM	18900	1RB#0	20.83	23.19	33	PASS
Band2	20MHz	64QAM	18900	1RB#49	21.08	23.44	33	PASS
Band2	20MHz	64QAM	18900	1RB#99	21.08	23.44	33	PASS
Band2	20MHz	64QAM	18900	100RB#0	19.79	22.15	33	PASS
Band2	20MHz	64QAM	19100	1RB#0	20.82	23.18	33	PASS
Band2	20MHz	64QAM	19100	1RB#49	20.94	23.30	33	PASS
Band2	20MHz	64QAM	19100	1RB#99	21.09	23.45	33	PASS
Band2	20MHz	64QAM	19100	100RB#0	19.70	22.06	33	PASS
Band2	20MHz	256QAM	18700	1RB#0	17.54	19.90	33	PASS
Band2	20MHz	256QAM	18700	1RB#49	17.66	20.02	33	PASS
Band2	20MHz	256QAM	18700	1RB#99	17.74	20.10	33	PASS
Band2	20MHz	256QAM	18700	100RB#0	17.68	20.04	33	PASS
Band2	20MHz	256QAM	18900	1RB#0	17.78	20.14	33	PASS
Band2	20MHz	256QAM	18900	1RB#49	17.73	20.09	33	PASS
Band2	20MHz	256QAM	18900	1RB#99	18.00	20.36	33	PASS
Band2	20MHz	256QAM	18900	100RB#0	17.70	20.06	33	PASS
Band2	20MHz	256QAM	19100	1RB#0	17.70	20.06	33	PASS
Band2	20MHz	256QAM	19100	1RB#49	17.76	20.12	33	PASS
Band2	20MHz	256QAM	19100	1RB#99	17.84	20.20	33	PASS
Band2	20MHz	256QAM	19100	100RB#0	17.74	20.10	33	PASS

**LTE BAND 25**

Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)
3MHz	QPSK	26365	1RB#0	23.44	25.80	33

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi)

Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)
20MHz	QPSK	26365	1RB#49	22.87	25.23	33

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi)

Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)
10MHz	16QAM	26640	1RB#24	22.19	24.55	33

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi)

Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)
20MHz	16QAM	26590	1RB#99	22.10	24.46	33

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi)

**Test Report No.: PSU-NQN2502170113RF02**

Band25	1.4MHz	QPSK	26047	1RB#0	22.69	25.05	33	PASS
Band25	1.4MHz	QPSK	26047	1RB#2	22.78	25.14	33	PASS
Band25	1.4MHz	QPSK	26047	1RB#5	22.66	25.02	33	PASS
Band25	1.4MHz	QPSK	26047	6RB#0	21.66	24.02	33	PASS
Band25	1.4MHz	QPSK	26365	1RB#0	22.77	25.13	33	PASS
Band25	1.4MHz	QPSK	26365	1RB#2	22.74	25.10	33	PASS
Band25	1.4MHz	QPSK	26365	1RB#5	22.85	25.21	33	PASS
Band25	1.4MHz	QPSK	26365	6RB#0	21.87	24.23	33	PASS
Band25	1.4MHz	QPSK	26683	1RB#0	22.69	25.05	33	PASS
Band25	1.4MHz	QPSK	26683	1RB#2	22.79	25.15	33	PASS
Band25	1.4MHz	QPSK	26683	1RB#5	22.79	25.15	33	PASS
Band25	1.4MHz	QPSK	26683	6RB#0	21.82	24.18	33	PASS
Band25	1.4MHz	16QAM	26047	1RB#0	21.75	24.11	33	PASS
Band25	1.4MHz	16QAM	26047	1RB#2	21.92	24.28	33	PASS
Band25	1.4MHz	16QAM	26047	1RB#5	21.76	24.12	33	PASS
Band25	1.4MHz	16QAM	26047	6RB#0	20.78	23.14	33	PASS
Band25	1.4MHz	16QAM	26365	1RB#0	21.85	24.21	33	PASS
Band25	1.4MHz	16QAM	26365	1RB#2	22.07	24.43	33	PASS
Band25	1.4MHz	16QAM	26365	1RB#5	22.05	24.41	33	PASS
Band25	1.4MHz	16QAM	26365	6RB#0	20.66	23.02	33	PASS
Band25	1.4MHz	16QAM	26683	1RB#0	22.08	24.44	33	PASS
Band25	1.4MHz	16QAM	26683	1RB#2	21.99	24.35	33	PASS
Band25	1.4MHz	16QAM	26683	1RB#5	21.84	24.20	33	PASS
Band25	1.4MHz	16QAM	26683	6RB#0	20.81	23.17	33	PASS
Band25	1.4MHz	64QAM	26047	1RB#0	20.84	23.20	33	PASS
Band25	1.4MHz	64QAM	26047	1RB#2	20.95	23.31	33	PASS
Band25	1.4MHz	64QAM	26047	1RB#5	20.80	23.16	33	PASS
Band25	1.4MHz	64QAM	26047	6RB#0	19.54	21.90	33	PASS
Band25	1.4MHz	64QAM	26365	1RB#0	20.98	23.34	33	PASS
Band25	1.4MHz	64QAM	26365	1RB#2	20.83	23.19	33	PASS
Band25	1.4MHz	64QAM	26365	1RB#5	20.99	23.35	33	PASS
Band25	1.4MHz	64QAM	26365	6RB#0	19.63	21.99	33	PASS
Band25	1.4MHz	64QAM	26683	1RB#0	20.96	23.32	33	PASS
Band25	1.4MHz	64QAM	26683	1RB#2	20.85	23.21	33	PASS
Band25	1.4MHz	64QAM	26683	1RB#5	20.83	23.19	33	PASS
Band25	1.4MHz	64QAM	26683	6RB#0	19.79	22.15	33	PASS
Band25	1.4MHz	256QAM	26047	1RB#0	17.79	20.15	33	PASS
Band25	1.4MHz	256QAM	26047	1RB#2	17.72	20.08	33	PASS
Band25	1.4MHz	256QAM	26047	1RB#5	17.76	20.12	33	PASS
Band25	1.4MHz	256QAM	26047	6RB#0	17.60	19.96	33	PASS
Band25	1.4MHz	256QAM	26365	1RB#0	17.64	20.00	33	PASS
Band25	1.4MHz	256QAM	26365	1RB#2	17.89	20.25	33	PASS
Band25	1.4MHz	256QAM	26365	1RB#5	17.73	20.09	33	PASS



Band25	1.4MHz	256QAM	26365	6RB#0	17.74	20.10	33	PASS
Band25	1.4MHz	256QAM	26683	1RB#0	17.80	20.16	33	PASS
Band25	1.4MHz	256QAM	26683	1RB#2	17.86	20.22	33	PASS
Band25	1.4MHz	256QAM	26683	1RB#5	17.81	20.17	33	PASS
Band25	1.4MHz	256QAM	26683	6RB#0	17.73	20.09	33	PASS
Band25	3MHz	QPSK	26055	1RB#0	22.56	24.92	33	PASS
Band25	3MHz	QPSK	26055	1RB#8	22.59	24.95	33	PASS
Band25	3MHz	QPSK	26055	1RB#14	22.51	24.87	33	PASS
Band25	3MHz	QPSK	26055	15RB#0	21.69	24.05	33	PASS
Band25	3MHz	QPSK	26365	1RB#0	23.44	25.80	33	PASS
Band25	3MHz	QPSK	26365	1RB#8	22.75	25.11	33	PASS
Band25	3MHz	QPSK	26365	1RB#14	22.93	25.29	33	PASS
Band25	3MHz	QPSK	26365	15RB#0	21.77	24.13	33	PASS
Band25	3MHz	QPSK	26675	1RB#0	22.88	25.24	33	PASS
Band25	3MHz	QPSK	26675	1RB#8	22.69	25.05	33	PASS
Band25	3MHz	QPSK	26675	1RB#14	22.82	25.18	33	PASS
Band25	3MHz	QPSK	26675	15RB#0	21.71	24.07	33	PASS
Band25	3MHz	16QAM	26055	1RB#0	21.68	24.04	33	PASS
Band25	3MHz	16QAM	26055	1RB#8	21.72	24.08	33	PASS
Band25	3MHz	16QAM	26055	1RB#14	21.81	24.17	33	PASS
Band25	3MHz	16QAM	26055	15RB#0	20.57	22.93	33	PASS
Band25	3MHz	16QAM	26365	1RB#0	21.77	24.13	33	PASS
Band25	3MHz	16QAM	26365	1RB#8	21.97	24.33	33	PASS
Band25	3MHz	16QAM	26365	1RB#14	21.88	24.24	33	PASS
Band25	3MHz	16QAM	26365	15RB#0	20.70	23.06	33	PASS
Band25	3MHz	16QAM	26675	1RB#0	21.99	24.35	33	PASS
Band25	3MHz	16QAM	26675	1RB#8	21.88	24.24	33	PASS
Band25	3MHz	16QAM	26675	1RB#14	21.81	24.17	33	PASS
Band25	3MHz	16QAM	26675	15RB#0	20.90	23.26	33	PASS
Band25	3MHz	64QAM	26055	1RB#0	20.90	23.26	33	PASS
Band25	3MHz	64QAM	26055	1RB#8	20.76	23.12	33	PASS
Band25	3MHz	64QAM	26055	1RB#14	20.89	23.25	33	PASS
Band25	3MHz	64QAM	26055	15RB#0	19.72	22.08	33	PASS
Band25	3MHz	64QAM	26365	1RB#0	20.82	23.18	33	PASS
Band25	3MHz	64QAM	26365	1RB#8	21.08	23.44	33	PASS
Band25	3MHz	64QAM	26365	1RB#14	20.87	23.23	33	PASS
Band25	3MHz	64QAM	26365	15RB#0	19.71	22.07	33	PASS
Band25	3MHz	64QAM	26675	1RB#0	20.91	23.27	33	PASS
Band25	3MHz	64QAM	26675	1RB#8	21.06	23.42	33	PASS
Band25	3MHz	64QAM	26675	1RB#14	21.00	23.36	33	PASS
Band25	3MHz	64QAM	26675	15RB#0	19.81	22.17	33	PASS
Band25	3MHz	256QAM	26055	1RB#0	17.68	20.04	33	PASS
Band25	3MHz	256QAM	26055	1RB#8	17.75	20.11	33	PASS
Band25	3MHz	256QAM	26055	1RB#14	17.74	20.10	33	PASS



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Band25	3MHz	256QAM	26055	15RB#0	17.60	19.96	33	PASS
Band25	3MHz	256QAM	26365	1RB#0	17.79	20.15	33	PASS
Band25	3MHz	256QAM	26365	1RB#8	17.70	20.06	33	PASS
Band25	3MHz	256QAM	26365	1RB#14	17.67	20.03	33	PASS
Band25	3MHz	256QAM	26365	15RB#0	17.69	20.05	33	PASS
Band25	3MHz	256QAM	26675	1RB#0	17.88	20.24	33	PASS
Band25	3MHz	256QAM	26675	1RB#8	17.86	20.22	33	PASS
Band25	3MHz	256QAM	26675	1RB#14	17.79	20.15	33	PASS
Band25	3MHz	256QAM	26675	15RB#0	17.80	20.16	33	PASS
Band25	5MHz	QPSK	26065	1RB#0	22.82	25.18	33	PASS
Band25	5MHz	QPSK	26065	1RB#12	22.67	25.03	33	PASS
Band25	5MHz	QPSK	26065	1RB#24	22.68	25.04	33	PASS
Band25	5MHz	QPSK	26065	25RB#0	21.78	24.14	33	PASS
Band25	5MHz	QPSK	26365	1RB#0	22.75	25.11	33	PASS
Band25	5MHz	QPSK	26365	1RB#12	22.76	25.12	33	PASS
Band25	5MHz	QPSK	26365	1RB#24	22.94	25.30	33	PASS
Band25	5MHz	QPSK	26365	25RB#0	21.90	24.26	33	PASS
Band25	5MHz	QPSK	26665	1RB#0	22.67	25.03	33	PASS
Band25	5MHz	QPSK	26665	1RB#12	22.82	25.18	33	PASS
Band25	5MHz	QPSK	26665	1RB#24	22.91	25.27	33	PASS
Band25	5MHz	QPSK	26665	25RB#0	22.02	24.38	33	PASS
Band25	5MHz	16QAM	26065	1RB#0	21.84	24.20	33	PASS
Band25	5MHz	16QAM	26065	1RB#12	21.99	24.35	33	PASS
Band25	5MHz	16QAM	26065	1RB#24	21.85	24.21	33	PASS
Band25	5MHz	16QAM	26065	25RB#0	20.65	23.01	33	PASS
Band25	5MHz	16QAM	26365	1RB#0	22.07	24.43	33	PASS
Band25	5MHz	16QAM	26365	1RB#12	22.03	24.39	33	PASS
Band25	5MHz	16QAM	26365	1RB#24	22.05	24.41	33	PASS
Band25	5MHz	16QAM	26365	25RB#0	20.98	23.34	33	PASS
Band25	5MHz	16QAM	26665	1RB#0	22.11	24.47	33	PASS
Band25	5MHz	16QAM	26665	1RB#12	21.96	24.32	33	PASS
Band25	5MHz	16QAM	26665	1RB#24	21.92	24.28	33	PASS
Band25	5MHz	16QAM	26665	25RB#0	20.85	23.21	33	PASS
Band25	5MHz	64QAM	26065	1RB#0	20.81	23.17	33	PASS
Band25	5MHz	64QAM	26065	1RB#12	21.02	23.38	33	PASS
Band25	5MHz	64QAM	26065	1RB#24	21.01	23.37	33	PASS
Band25	5MHz	64QAM	26065	25RB#0	19.65	22.01	33	PASS
Band25	5MHz	64QAM	26365	1RB#0	21.11	23.47	33	PASS
Band25	5MHz	64QAM	26365	1RB#12	20.99	23.35	33	PASS
Band25	5MHz	64QAM	26365	1RB#24	21.00	23.36	33	PASS
Band25	5MHz	64QAM	26365	25RB#0	19.68	22.04	33	PASS
Band25	5MHz	64QAM	26665	1RB#0	21.23	23.59	33	PASS
Band25	5MHz	64QAM	26665	1RB#12	20.97	23.33	33	PASS
Band25	5MHz	64QAM	26665	1RB#24	20.97	23.33	33	PASS



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Band25	5MHz	64QAM	26665	25RB#0	19.78	22.14	33	PASS
Band25	5MHz	256QAM	26065	1RB#0	17.71	20.07	33	PASS
Band25	5MHz	256QAM	26065	1RB#12	17.71	20.07	33	PASS
Band25	5MHz	256QAM	26065	1RB#24	17.76	20.12	33	PASS
Band25	5MHz	256QAM	26065	25RB#0	17.63	19.99	33	PASS
Band25	5MHz	256QAM	26365	1RB#0	17.94	20.30	33	PASS
Band25	5MHz	256QAM	26365	1RB#12	17.88	20.24	33	PASS
Band25	5MHz	256QAM	26365	1RB#24	17.82	20.18	33	PASS
Band25	5MHz	256QAM	26365	25RB#0	17.78	20.14	33	PASS
Band25	5MHz	256QAM	26665	1RB#0	17.97	20.33	33	PASS
Band25	5MHz	256QAM	26665	1RB#12	17.96	20.32	33	PASS
Band25	5MHz	256QAM	26665	1RB#24	17.99	20.35	33	PASS
Band25	5MHz	256QAM	26665	25RB#0	17.74	20.10	33	PASS
Band25	10MHz	QPSK	26090	1RB#0	22.71	25.07	33	PASS
Band25	10MHz	QPSK	26090	1RB#24	22.81	25.17	33	PASS
Band25	10MHz	QPSK	26090	1RB#49	22.93	25.29	33	PASS
Band25	10MHz	QPSK	26090	50RB#0	21.66	24.02	33	PASS
Band25	10MHz	QPSK	26365	1RB#0	22.93	25.29	33	PASS
Band25	10MHz	QPSK	26365	1RB#24	22.81	25.17	33	PASS
Band25	10MHz	QPSK	26365	1RB#49	22.79	25.15	33	PASS
Band25	10MHz	QPSK	26365	50RB#0	21.86	24.22	33	PASS
Band25	10MHz	QPSK	26640	1RB#0	23.04	25.40	33	PASS
Band25	10MHz	QPSK	26640	1RB#24	22.96	25.32	33	PASS
Band25	10MHz	QPSK	26640	1RB#49	22.78	25.14	33	PASS
Band25	10MHz	QPSK	26640	50RB#0	22.07	24.43	33	PASS
Band25	10MHz	16QAM	26090	1RB#0	21.81	24.17	33	PASS
Band25	10MHz	16QAM	26090	1RB#24	21.87	24.23	33	PASS
Band25	10MHz	16QAM	26090	1RB#49	21.88	24.24	33	PASS
Band25	10MHz	16QAM	26090	50RB#0	20.74	23.10	33	PASS
Band25	10MHz	16QAM	26365	1RB#0	21.95	24.31	33	PASS
Band25	10MHz	16QAM	26365	1RB#24	22.00	24.36	33	PASS
Band25	10MHz	16QAM	26365	1RB#49	21.90	24.26	33	PASS
Band25	10MHz	16QAM	26365	50RB#0	20.92	23.28	33	PASS
Band25	10MHz	16QAM	26640	1RB#0	21.97	24.33	33	PASS
Band25	10MHz	16QAM	26640	1RB#24	22.19	24.55	33	PASS
Band25	10MHz	16QAM	26640	1RB#49	21.86	24.22	33	PASS
Band25	10MHz	16QAM	26640	50RB#0	21.00	23.36	33	PASS
Band25	10MHz	64QAM	26090	1RB#0	20.89	23.25	33	PASS
Band25	10MHz	64QAM	26090	1RB#24	20.81	23.17	33	PASS
Band25	10MHz	64QAM	26090	1RB#49	21.01	23.37	33	PASS
Band25	10MHz	64QAM	26090	50RB#0	19.68	22.04	33	PASS
Band25	10MHz	64QAM	26365	1RB#0	20.95	23.31	33	PASS
Band25	10MHz	64QAM	26365	1RB#24	21.04	23.40	33	PASS
Band25	10MHz	64QAM	26365	1RB#49	21.02	23.38	33	PASS



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Band25	10MHz	64QAM	26365	50RB#0	19.85	22.21	33	PASS
Band25	10MHz	64QAM	26640	1RB#0	21.15	23.51	33	PASS
Band25	10MHz	64QAM	26640	1RB#24	21.04	23.40	33	PASS
Band25	10MHz	64QAM	26640	1RB#49	21.09	23.45	33	PASS
Band25	10MHz	64QAM	26640	50RB#0	19.92	22.28	33	PASS
Band25	10MHz	256QAM	26090	1RB#0	17.76	20.12	33	PASS
Band25	10MHz	256QAM	26090	1RB#24	17.72	20.08	33	PASS
Band25	10MHz	256QAM	26090	1RB#49	17.78	20.14	33	PASS
Band25	10MHz	256QAM	26090	50RB#0	17.79	20.15	33	PASS
Band25	10MHz	256QAM	26365	1RB#0	17.82	20.18	33	PASS
Band25	10MHz	256QAM	26365	1RB#24	18.02	20.38	33	PASS
Band25	10MHz	256QAM	26365	1RB#49	17.93	20.29	33	PASS
Band25	10MHz	256QAM	26365	50RB#0	17.83	20.19	33	PASS
Band25	10MHz	256QAM	26640	1RB#0	17.92	20.28	33	PASS
Band25	10MHz	256QAM	26640	1RB#24	18.06	20.42	33	PASS
Band25	10MHz	256QAM	26640	1RB#49	17.89	20.25	33	PASS
Band25	10MHz	256QAM	26640	50RB#0	17.90	20.26	33	PASS
Band25	15MHz	QPSK	26115	1RB#0	22.67	25.03	33	PASS
Band25	15MHz	QPSK	26115	1RB#38	22.68	25.04	33	PASS
Band25	15MHz	QPSK	26115	1RB#74	22.78	25.14	33	PASS
Band25	15MHz	QPSK	26115	75RB#0	21.64	24.00	33	PASS
Band25	15MHz	QPSK	26365	1RB#0	23.11	25.47	33	PASS
Band25	15MHz	QPSK	26365	1RB#38	22.68	25.04	33	PASS
Band25	15MHz	QPSK	26365	1RB#74	22.79	25.15	33	PASS
Band25	15MHz	QPSK	26365	75RB#0	21.99	24.35	33	PASS
Band25	15MHz	QPSK	26615	1RB#0	22.79	25.15	33	PASS
Band25	15MHz	QPSK	26615	1RB#38	22.84	25.20	33	PASS
Band25	15MHz	QPSK	26615	1RB#74	22.98	25.34	33	PASS
Band25	15MHz	QPSK	26615	75RB#0	21.86	24.22	33	PASS
Band25	15MHz	16QAM	26115	1RB#0	21.75	24.11	33	PASS
Band25	15MHz	16QAM	26115	1RB#38	21.78	24.14	33	PASS
Band25	15MHz	16QAM	26115	1RB#74	21.93	24.29	33	PASS
Band25	15MHz	16QAM	26115	75RB#0	20.87	23.23	33	PASS
Band25	15MHz	16QAM	26365	1RB#0	21.89	24.25	33	PASS
Band25	15MHz	16QAM	26365	1RB#38	21.91	24.27	33	PASS
Band25	15MHz	16QAM	26365	1RB#74	22.01	24.37	33	PASS
Band25	15MHz	16QAM	26365	75RB#0	20.72	23.08	33	PASS
Band25	15MHz	16QAM	26615	1RB#0	21.88	24.24	33	PASS
Band25	15MHz	16QAM	26615	1RB#38	22.10	24.46	33	PASS
Band25	15MHz	16QAM	26615	1RB#74	21.96	24.32	33	PASS
Band25	15MHz	16QAM	26615	75RB#0	20.86	23.22	33	PASS
Band25	15MHz	64QAM	26115	1RB#0	20.68	23.04	33	PASS
Band25	15MHz	64QAM	26115	1RB#38	20.84	23.20	33	PASS
Band25	15MHz	64QAM	26115	1RB#74	20.78	23.14	33	PASS



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Band25	15MHz	64QAM	26115	75RB#0	19.61	21.97	33	PASS
Band25	15MHz	64QAM	26365	1RB#0	20.93	23.29	33	PASS
Band25	15MHz	64QAM	26365	1RB#38	20.96	23.32	33	PASS
Band25	15MHz	64QAM	26365	1RB#74	21.05	23.41	33	PASS
Band25	15MHz	64QAM	26365	75RB#0	19.85	22.21	33	PASS
Band25	15MHz	64QAM	26615	1RB#0	20.89	23.25	33	PASS
Band25	15MHz	64QAM	26615	1RB#38	21.25	23.61	33	PASS
Band25	15MHz	64QAM	26615	1RB#74	21.17	23.53	33	PASS
Band25	15MHz	64QAM	26615	75RB#0	19.96	22.32	33	PASS
Band25	15MHz	256QAM	26115	1RB#0	17.76	20.12	33	PASS
Band25	15MHz	256QAM	26115	1RB#38	17.53	19.89	33	PASS
Band25	15MHz	256QAM	26115	1RB#74	17.78	20.14	33	PASS
Band25	15MHz	256QAM	26115	75RB#0	17.59	19.95	33	PASS
Band25	15MHz	256QAM	26365	1RB#0	17.74	20.10	33	PASS
Band25	15MHz	256QAM	26365	1RB#38	17.96	20.32	33	PASS
Band25	15MHz	256QAM	26365	1RB#74	17.87	20.23	33	PASS
Band25	15MHz	256QAM	26365	75RB#0	17.74	20.10	33	PASS
Band25	15MHz	256QAM	26615	1RB#0	17.81	20.17	33	PASS
Band25	15MHz	256QAM	26615	1RB#38	17.92	20.28	33	PASS
Band25	15MHz	256QAM	26615	1RB#74	17.83	20.19	33	PASS
Band25	15MHz	256QAM	26615	75RB#0	17.94	20.30	33	PASS
Band25	20MHz	QPSK	26140	1RB#0	22.55	24.91	33	PASS
Band25	20MHz	QPSK	26140	1RB#49	22.73	25.09	33	PASS
Band25	20MHz	QPSK	26140	1RB#99	22.84	25.20	33	PASS
Band25	20MHz	QPSK	26140	100RB#0	21.86	24.22	33	PASS
Band25	20MHz	QPSK	26365	1RB#0	22.78	25.14	33	PASS
Band25	20MHz	QPSK	26365	1RB#49	22.87	25.23	33	PASS
Band25	20MHz	QPSK	26365	1RB#99	22.85	25.21	33	PASS
Band25	20MHz	QPSK	26365	100RB#0	22.01	24.37	33	PASS
Band25	20MHz	QPSK	26590	1RB#0	22.63	24.99	33	PASS
Band25	20MHz	QPSK	26590	1RB#49	22.78	25.14	33	PASS
Band25	20MHz	QPSK	26590	1RB#99	22.83	25.19	33	PASS
Band25	20MHz	QPSK	26590	100RB#0	21.82	24.18	33	PASS
Band25	20MHz	16QAM	26140	1RB#0	21.89	24.25	33	PASS
Band25	20MHz	16QAM	26140	1RB#49	21.75	24.11	33	PASS
Band25	20MHz	16QAM	26140	1RB#99	21.92	24.28	33	PASS
Band25	20MHz	16QAM	26140	100RB#0	20.93	23.29	33	PASS
Band25	20MHz	16QAM	26365	1RB#0	21.83	24.19	33	PASS
Band25	20MHz	16QAM	26365	1RB#49	21.87	24.23	33	PASS
Band25	20MHz	16QAM	26365	1RB#99	22.09	24.45	33	PASS
Band25	20MHz	16QAM	26365	100RB#0	20.80	23.16	33	PASS
Band25	20MHz	16QAM	26590	1RB#0	21.97	24.33	33	PASS
Band25	20MHz	16QAM	26590	1RB#49	21.90	24.26	33	PASS
Band25	20MHz	16QAM	26590	1RB#99	22.10	24.46	33	PASS



Band25	20MHz	16QAM	26590	100RB#0	20.79	23.15	33	PASS
Band25	20MHz	64QAM	26140	1RB#0	20.67	23.03	33	PASS
Band25	20MHz	64QAM	26140	1RB#49	20.88	23.24	33	PASS
Band25	20MHz	64QAM	26140	1RB#99	20.97	23.33	33	PASS
Band25	20MHz	64QAM	26140	100RB#0	19.70	22.06	33	PASS
Band25	20MHz	64QAM	26365	1RB#0	20.83	23.19	33	PASS
Band25	20MHz	64QAM	26365	1RB#49	20.96	23.32	33	PASS
Band25	20MHz	64QAM	26365	1RB#99	21.04	23.40	33	PASS
Band25	20MHz	64QAM	26365	100RB#0	19.89	22.25	33	PASS
Band25	20MHz	64QAM	26590	1RB#0	20.99	23.35	33	PASS
Band25	20MHz	64QAM	26590	1RB#49	20.94	23.30	33	PASS
Band25	20MHz	64QAM	26590	1RB#99	21.00	23.36	33	PASS
Band25	20MHz	64QAM	26590	100RB#0	19.89	22.25	33	PASS
Band25	20MHz	256QAM	26140	1RB#0	17.53	19.89	33	PASS
Band25	20MHz	256QAM	26140	1RB#49	17.66	20.02	33	PASS
Band25	20MHz	256QAM	26140	1RB#99	17.87	20.23	33	PASS
Band25	20MHz	256QAM	26140	100RB#0	17.72	20.08	33	PASS
Band25	20MHz	256QAM	26365	1RB#0	17.90	20.26	33	PASS
Band25	20MHz	256QAM	26365	1RB#49	17.90	20.26	33	PASS
Band25	20MHz	256QAM	26365	1RB#99	17.83	20.19	33	PASS
Band25	20MHz	256QAM	26365	100RB#0	17.72	20.08	33	PASS
Band25	20MHz	256QAM	26590	1RB#0	17.83	20.19	33	PASS
Band25	20MHz	256QAM	26590	1RB#49	17.96	20.32	33	PASS
Band25	20MHz	256QAM	26590	1RB#99	17.80	20.16	33	PASS
Band25	20MHz	256QAM	26590	100RB#0	17.79	20.15	33	PASS



3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

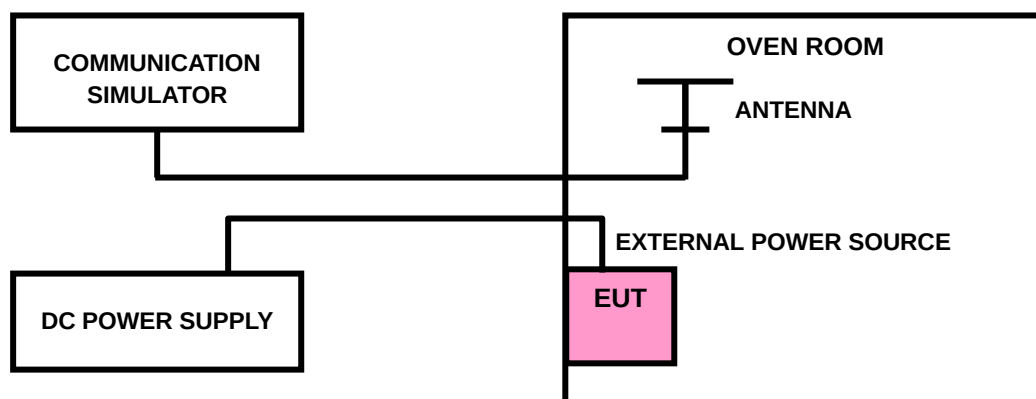
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

3.2.2 TEST PROCEDURE

- Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

3.2.3 TEST SETUP



3.2.4 TEST RESULTS

Please Refer to module RG620T-NA report.

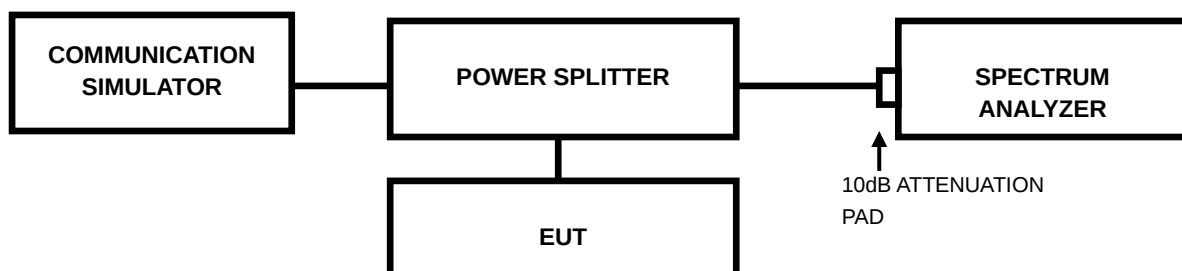


3.3 OCCUPIED BANDWIDTH MEASUREMENT

3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

3.3.2 TEST SETUP



3.3.3 TEST PROCEDURES

- The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

3.3.4 TEST RESULTS

Please Refer to module RG620T-NA report.

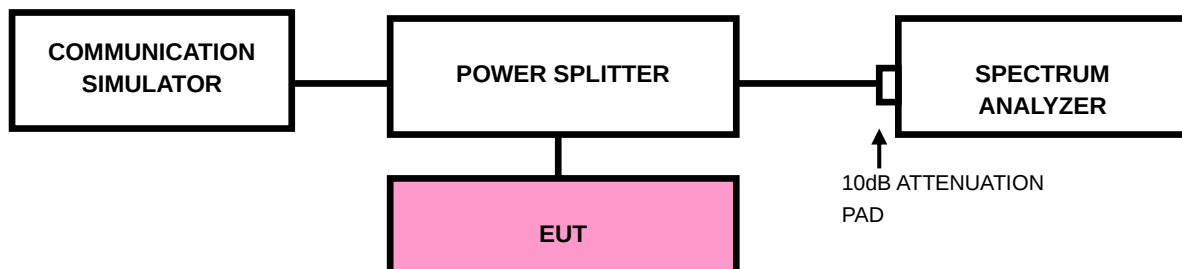


3.4 BAND EDGE MEASUREMENTC

3.4.1 LIMITS OF BAND EDGE MEASUREMENT

Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

3.4.2 TEST SETUP



3.4.3 TEST PROCEDURES

- a) All measurements were done at low and high operational frequency range
- b) Connect the transmitter to the spectrum analyzer via coaxial cable while ensuring proper impedance matching.
- c) Tune the analyzer to the nominal center frequency of the emission bandwidth (EBW)
- d) .Set the resolution bandwidth (RBW) $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
- e) Beyond the 1MHz band from the band edge, RBW=1MHz was used.
- f) Set the video bandwidth (VBW) to $\geq 3 \times$ RBW.
- g) Select the average power (RMS) display detector.
- h) Set the number of measurement points to ≥ 1001 .
- i) Use auto-coupled sweep time.
- j) Perform the measurement over an interval of time when the transmission is continuous and at its maximum power level.
- k) The RF fundamental frequency should be excluded against the limit line in the operating frequency band and use RBW is 10KHz or 100KHz.
- l) Record the max trace plot into the test report.

3.4.4. TEST RESULTS

Please Refer to module RG620T-NA report.



3.5 CONDUCTED SPURIOUS EMISSIONS

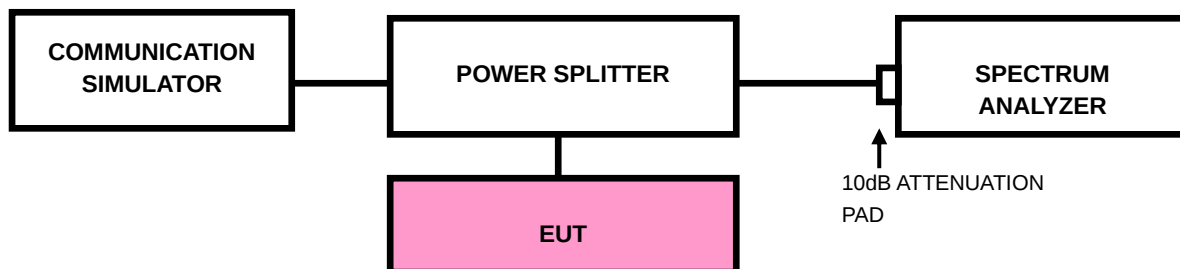
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

3.5.2 TEST PROCEDURE

- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 30MHz up to a frequency including its 10th harmonic. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

3.5.3 TEST SETUP



3.5.4 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

Please Refer to module RG620T-NA report.

3.6 RADIATED EMISSION MEASUREMENT

3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

3.6.2 TEST PROCEDURES

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value” of step a. Record the power level of S.G
- c. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}.$

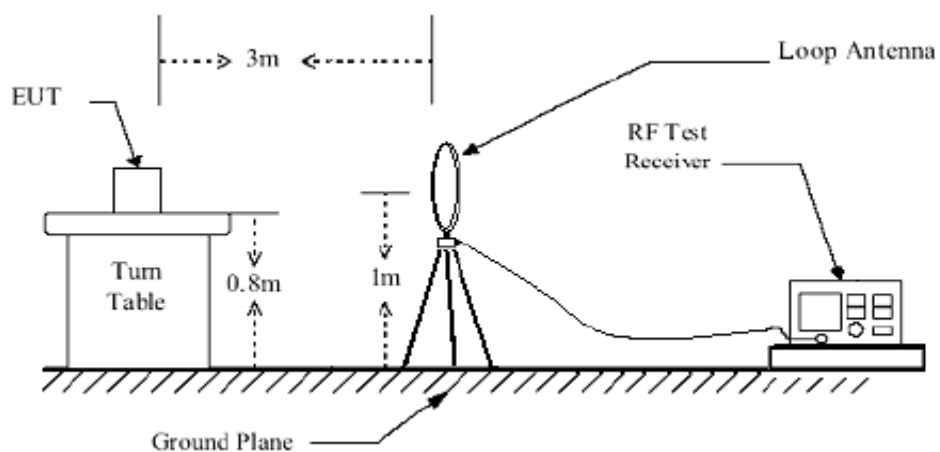
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

3.6.3 DEVIATION FROM TEST STANDARD

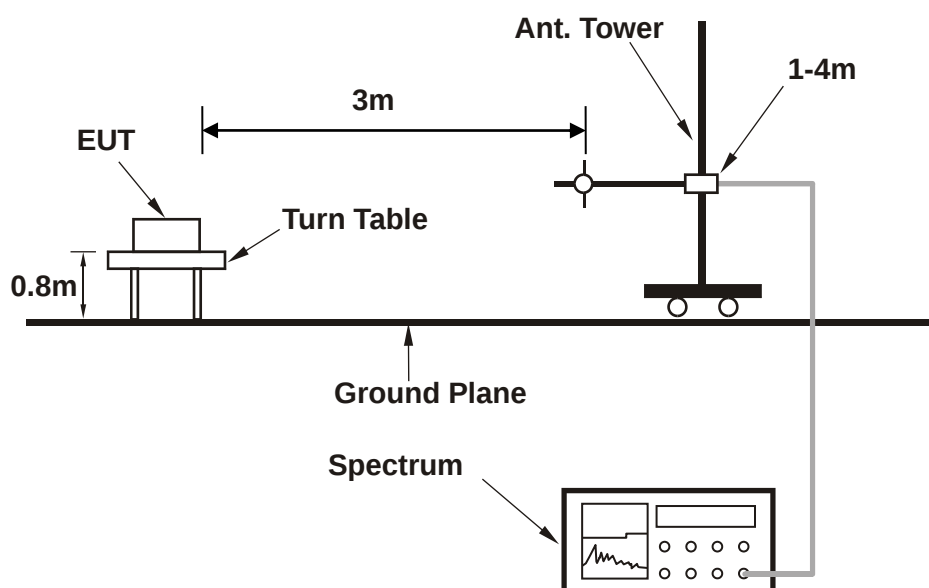
No deviation

3.6.4 TEST SETUP

< Frequency Range below 30MHz >



< Frequency Range 30MHz~1GHz >

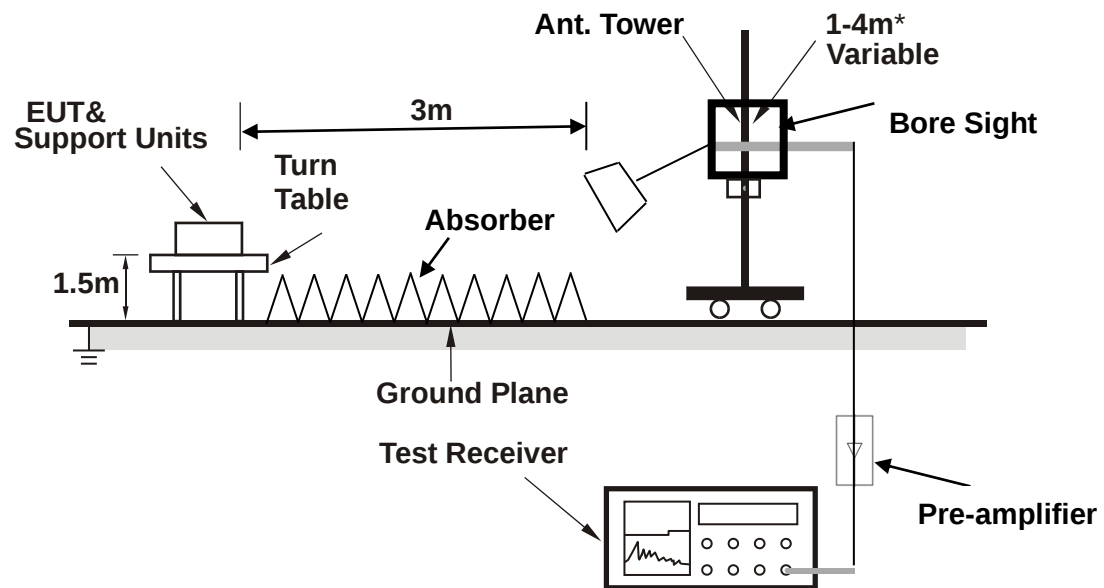




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<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

For the actual test configuration, please refer to the attached file (Test Setup Photo).



3.6.5 TEST RESULTS

NOTE1 : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

NOTE2 : The measurement range is 30M to the tenth harmonic of the highest fundamental frequency, For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report

LTE band 2

Test result:

ANT2 Channel : 18900

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1165.20	-80.46	-13.00	Vertical
1417.20	-78.68	-13.00	Vertical
2306.20	-81.00	-13.00	Vertical
3114.00	-82.83	-13.00	Vertical
3489.00	-81.19	-13.00	Vertical
4743.00	-87.82	-13.00	Vertical

LTE band 25

Test result:

ANT2 Channel: 26365

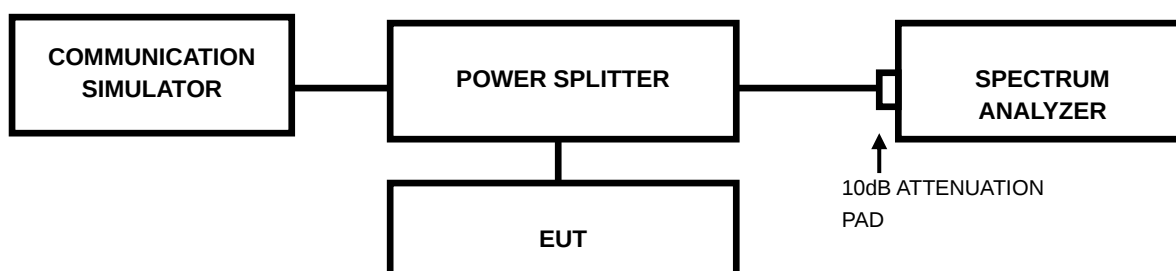
Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1131.60	-81.58	-13.00	Vertical
1315.00	-80.14	-13.00	Vertical
2427.30	-74.20	-13.00	Vertical
3096.00	-82.80	-13.00	Vertical
3411.00	-77.95	-13.00	Vertical
4632.00	-87.91	-13.00	Vertical

3.7 PEAK TO AVERAGE RATIO

3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

3.7.2 TEST SETUP



3.7.3 TEST PROCEDURES

1. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
2. Set the number of counts to a value that stabilizes the measured CCDF curve;
3. Record the maximum PAPR level associated with a probability of 0.1%.

3.7.4 TEST RESULTS

Please Refer to module RG620T-NA report.



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4 INFORMATION ON THE TESTING LABORATORIES

We, Huarui 7layers High Technology (Suzhou) Co., Ltd. ,were founded in 2020 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

Huarui 7Layers High Technology (Suzhou) Co., Ltd.

Lab Address:

Tower N, Innovation Center, 88 Zuyi Road, High-tech District, Suzhou City, Anhui Province

Accredited Test Lab Cert 6613.01

If you have any comments, please feel free to contact us at the following:

Suzhou EMC/RF Lab:

Tel: +86 (0557) 368 1008

5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

6 APPENDIX

Please Refer to module RG620T-NA report.

---END---