FCC TEST REPORT

(PART 24)

Applicant:	TCL Communication Ltd.
Address:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong

Manufacturer or Supplier:	TCL Communication Ltd.
Address:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science Park, Shatin, NT, Hong Kong
Product:	TCL LINKPORT IK511
Brand Name:	TCL
Model Name:	IK511US
FCC ID	2ACCJSCD004
Date of tests	Apr. 17, 2025 ~May. 30, 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
Xu Hanwen	Sun Peibo
Date: May. 30, 2025	Date: May. 30, 2025

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TABLE OF CONTENTS

RELEASE CONTROL RECORD **4**

1 SUMMARY OF TEST RESULTS **5**

1.1 MEASUREMENT UNCERTAINTY 6

1.2 TEST SITE AND INSTRUMENTS 7

2 GENERAL INFORMATION **9**

2.1 GENERAL DESCRIPTION OF EUT 9

2.2 CONFIGURATION OF SYSTEM UNDER TEST 12

2.3 DESCRIPTION OF SUPPORT UNITS 13

2.4 TEST ITEM AND TEST CONFIGURATION 13

2.5 EUT OPERATING CONDITIONS 17

2.6 GENERAL DESCRIPTION OF APPLIED STANDARDS 17

3 TEST TYPES AND RESULTS **18**

3.1 OUTPUT POWER MEASUREMENT 18
3.1.1 LIMITS OF OUTPUT POWER MEASUREMENT 18
3.1.2 TEST PROCEDURES 18
3.1.3 TEST SETUP 19
3.1.4 TEST RESULTS 19

3.2 FREQUENCY STABILITY MEASUREMENT 35
3.2.1 LIMITS OF FREQUENCY STABILIITY MEASUREMENT 35
3.2.2 TEST PROCEDURE 35
3.2.3 TEST SETUP 35
3.2.4 TEST RESULTS 35

3.3 OCCUPIED BANDWIDTH MEASUREMENT 36
3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT 36
3.3.2 TEST SETUP 36
3.3.3 TEST PROCEDURES 36
3.3.4 TEST RESULTS 36

3.4 BAND EDGE MEASUREMENTC 37
3.4.1 LIMITS OF BAND EDGE MEASUREMENT 37
3.4.2 TEST SETUP 37
3.4.3 TEST PROCEDURES 38
3.4.4 TEST RESULTS 38

3.5 CONDUCTED SPURIOUS EMISSIONS 39
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT 39
3.5.2 TEST PROCEDURE 39
3.5.3 TEST SETUP 39
3.5.4 TEST RESULTS 39

3.6 RADIATED EMISSION MEASUREMENT 40
3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT 40
3.6.2 TEST PROCEDURES 40
3.6.3 DEVIATION FROM TEST STANDARD 40
3.6.4 TEST SETUP 41
3.6.5 TEST RESULTS 43

3.7 PEAK TO AVERAGE RATIO 61
3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT 61
3.7.2 TEST SETUP 61
3.7.3 TEST PROCEDURES 61
3.7.4 TEST RESULTS 61

4 INFORMATION ON THE TESTING LABORATORIES 62

5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB 63

6 APPENDIX 64

LTE BAND25 (INCLUDING B2) 64

PEAK-TO-AVERAGE RATIO(CCDF) 64
TEST RESULT 64
TEST GRAPHS 67

26DB BANDWIDTH AND OCCUPIED BANDWIDTH 82

OCCUPIED BANDWIDTH 82
TEST RESULT 82
TEST GRAPHS 83
26DB BANDWIDTH 86
TEST RESULT 86
TEST GRAPHS 87

BAND EDGE 90
TEST RESULT 90
TEST GRAPHS 92

CONDUCTED SPURIOUS EMISSION 104
TEST RESULT 104
TEST GRAPHS 106

FREQUENCY STABILITY 112
TEST RESULT 112

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
PSU-QSU2504140116RF02	Original release	May. 30, 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**	**Test lab***
§2.1046	Conducted Output Power	Compliance	A
§24.232(c)	Equivalent Isotropic Radiated Power	Compliance	A
§2.1055 §24.235	Frequency Stability	Compliance	A
§2.1049	Occupied Bandwidth	Compliance	A
§24.232(d)	Peak to average ratio*	Compliance	A
§24.238(a)(b)	Band Edge Measurements	Compliance	A
§2.1051 §24.238(a)(b)	Conducted Spurious Emissions	Compliance	A
§2.1053 §24.238(a)(b)	Radiated Spurious Emissions	Compliance	A

* Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01.

***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, China

Accredited Test Lab Cert 6613.01

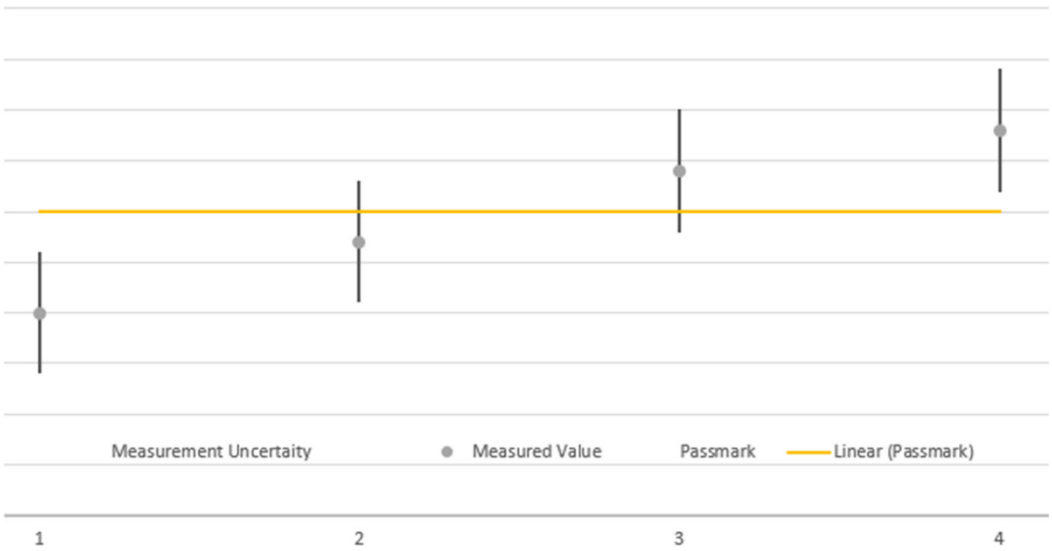
The FCC Site Registration No. is 434559; The Designation No. is CN1325.

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	±76.97Hz
Radiated emissions (9KHz~30MHz)	±2.68dB
Radiated emissions & Radiated Power (30MHz~1GHz)	±4.98dB
Radiated emissions & Radiated Power (1GHz ~6GHz)	±4.70dB
Radiated emissions (6GHz ~18GHz)	±4.60dB
Radiated emissions (18GHz ~40GHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Conducted Output power	±2.06dB
Band Edge Measurements	±4.70dB
Peak to average ratio	±0.76dB

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.22,25	Feb.21,27
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	W13.02	N/A	Apr.26,25	Apr.25,26
CABLE	R&S	W12.14	N/A	Apr.27,24	Apr.26,25
CABLE	R&S	W12.14	N/A	Apr.26,25	Apr.25,26
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Apr.27,24	Apr.26,25
CABLE	R&S	J12J103539-00-1	SEP-03-20-069	Apr.26,25	Apr.25,26
CABLE	R&S	J12J103539-00-1	SEP-03-20-070	Apr.27,24	Apr.26,25
CABLE	R&S	J12J103539-00-1	SEP-03-20-	Apr.26,25	Apr.25,26

			070		
Temperature Chamber	votsch	VT4002	58566078100050	May.30,24	May.29,26

NOTE:

1. The calibration interval of the above test instruments is 12/24/36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/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*	TCL LINKPORT IK511	
BRAND NAME*	TCL	
MODEL NAME*	IK511US	
NOMINAL VOLTAGE*	DC 5V	
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. EIRP POWER	**LTE Band 2 Channel Bandwidth: 1.4MHz**	205.12mW
	LTE Band 2 Channel Bandwidth: 3MHz	208.45mW
	LTE Band 2 Channel Bandwidth: 5MHz	206.06mW
	LTE Band 2 Channel Bandwidth: 10MHz	208.93mW
	LTE Band 2 Channel Bandwidth: 15MHz	207.97mW
	LTE Band 2 Channel Bandwidth: 20MHz	209.41mW

MAX. EIRP POWER	LTE Band 25 Channel Bandwidth: 1.4MHz	216.27mW
	LTE Band 25 Channel Bandwidth: 3MHz	209.41mW
	LTE Band 25 Channel Bandwidth: 5MHz	216.77mW
	LTE Band 25 Channel Bandwidth: 10MHz	215.28mW
	LTE Band 25 Channel Bandwidth: 15MHz	217.77mW
	LTE Band 25 Channel Bandwidth: 20MHz	217.77mW
EMISSION DESIGNATOR	LTE Band 25 Channel Bandwidth: 1.4MHz	QPSK: 1M09G7D
		16QAM: 1M10W7D
		64QAM: 1M10W7D
		256QAM: 1M09W7D
	LTE Band 25 Channel Bandwidth: 3MHz	QPSK: 2M70G7D
		16QAM: 2M70W7D
		64QAM: 2M70W7D
		256QAM: 2M70W7D
	LTE Band 25 Channel Bandwidth: 5MHz	QPSK: 4M49G7D
		16QAM: 4M49W7D
		64QAM: 4M52W7D
		256QAM: 4M50W7D
	LTE Band 25 Channel Bandwidth: 10MHz	QPSK: 8M97G7D
		16QAM: 8M98W7D
		64QAM: 8M98W7D
		256QAM: 8M97W7D
	LTE Band 25 Channel Bandwidth: 15MHz	QPSK: 13M5G7D
		16QAM: 13M5W7D
		64QAM: 13M5W7D
		256QAM: 13M5W7D
	LTE Band 25 Channel Bandwidth: 20MHz	QPSK: 17M9G7D
		16QAM: 17M9W7D
		64QAM: 17M9W7D
		256QAM: 17M9W7D
ANTENNA GAIN*	LTE B2	0.5dBi
	LTE B25	0.5dBi
ANTENNA TYPE*	Fixed Internal Antenna	

HW VERSION*	V3.0
SW VERSION*	IK511USV1_ZZ_01.00_01
I/O PORTS*	Refer to user's manual
CABLE SUPPLIED*	USB cable: non-shielded cable, with w/o ferrite core, 0.15 meter
EXTREME TEMPERATURE*	-20℃~55℃
EXTREME VOLTAGE*	4.75V~5.25V

NOTE:

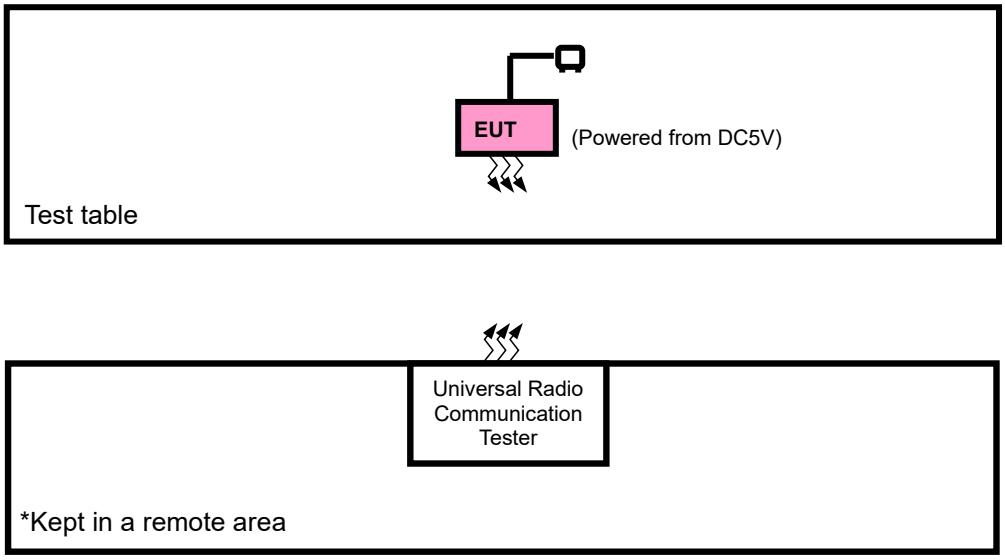
1. ***Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information , Test Lab is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
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 one completed transmitter and one receiver.

MODULATION MODE	TX FUNCTION
LTE	1TX/1RX

4. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

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	Laptop	Lenovo	ThinkPad E14	HRSW00024	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	USB Line: non-shielded, Detachable 0.15m

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 EIRP 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 + 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
A	FREQUENCY STABILITY	26140 to 26590	26140, 26365, 26590	20MHz	QPSK	100 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	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 0 RB offset 100 RB / 0 RB offset
		26055 to 26675	26055, 26365, 26675	3MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 0 RB offset 100 RB / 0 RB offset
		26065 to 26665	26065, 26365, 26665	5MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 0 RB offset 100 RB / 0 RB offset
		26090 to 26640	26090, 26365 26640	10MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 0 RB offset 100 RB / 0 RB offset
		26115 to 26615	26115, 26365, 26615	15MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 0 RB offset 100 RB / 0 RB offset
		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
						6 RB / 0 RB offset
			26683	1.4MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 5 RB offset
						6 RB / 0 RB offset
		26055 to 26675	26055	3MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 0 RB offset
						15 RB / 0 RB offset
			26675	3MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 14 RB offset
						15 RB / 0 RB offset
		26065 to 26665	26065	5MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 0 RB offset
						25 RB / 0 RB offset

			26665	5MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 24 RB offset
						25 RB / 0 RB offset
		26090 to 26640	26090	10MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 0 RB offset
						50 RB / 0 RB offset
			26640	10MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 49 RB offset
						50 RB / 0 RB offset
		26115 to 26615	26115	15MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 0 RB offset
						75 RB / 0 RB offset
			26615	15MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 74 RB offset
						75 RB / 0 RB offset
		26140 to 26590	26140	20MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 0 RB offset
						100 RB / 0 RB offset
			26590	20MHz	QPSK,16QAM,64QAM, 256QAM	1 RB / 99 RB offset
						100 RB / 0 RB offset
A	CONDCUDETED 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	26365	10MHz	QPSK	1 RB / 0 RB offset
		26115 to 26615	26115, 26365, 26615	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**
ERP	23deg. C, 70%RH	DC 5V	Hanwen Xu
FREQUENCY STABILITY	23deg. C, 70%RH	DC 4.75V/5V/5.25V	Hanwen Xu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	DC 5V	Hanwen Xu
BAND EDGE	23deg. C, 70%RH	DC 5V	Hanwen Xu
CONDCUDETED EMISSION	23deg. C, 70%RH	DC 5V	Hanwen Xu
RADIATED EMISSION	23deg. C, 70%RH	DC 5V	Hanwen Xu
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	DC 5V	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 determing the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

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

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);

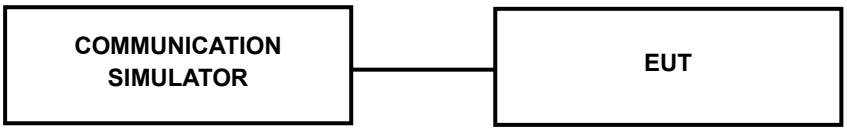
L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

CONDUCTED POWER MEASUREMENT:

The EUT was set up for the maximum power with WCDMA 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

CONDUCTED OUTPUT POWER (dBm) :

LTE BAND 2 (Ant1)						
Band/BW	Modulation	RB Size	RB offset	Low CH 18607	Mid CH 18900	High CH 19193
				Frequency 1850.7 MHz	Frequency 1880 MHz	Frequency 1909.3 MHz
2/ 1.4	QPSK	1	0	22.50	22.61	22.41
		1	2	22.61	22.62	22.57
		1	5	22.55	22.42	22.32
		3	0	22.50	22.36	22.47
		3	1	22.57	22.59	22.47
		3	3	22.54	22.38	22.38
		6	0	21.48	21.34	21.38
	16QAM	1	0	21.54	21.64	21.61
		1	2	21.47	21.57	21.59
		1	5	21.44	21.68	21.50
		3	0	21.36	21.48	21.35
		3	1	21.35	21.52	21.49
		3	3	21.45	21.24	21.40
		6	0	20.28	20.43	20.39
	64QAM	1	0	20.47	20.44	20.75
		1	2	20.54	20.56	20.65
		1	5	20.53	20.55	20.72
		3	0	20.37	20.35	20.22
		3	1	20.28	20.33	20.38
		3	3	20.48	20.51	20.43
		6	0	19.45	19.49	19.51
	256QAM	1	0	17.18	17.35	17.19
		1	2	17.42	17.51	17.32
		1	5	17.32	17.28	17.36
		3	0	17.29	17.28	17.14
		3	1	17.31	17.37	17.26
		3	3	17.17	17.28	17.28
		6	0	17.41	17.40	17.46

Band/BW	Modulation	RB Size	RB offset	Low CH 18615	Mid CH 18900	High CH 19185
				Frequency 1851.5 MHz	Frequency 1880 MHz	Frequency 1908.5 MHz
2/ 3	QPSK	1	0	22.59	22.69	22.45
		1	7	22.60	22.63	22.38
		1	14	22.48	22.41	22.22
		8	0	21.54	21.51	21.34
		8	3	21.61	21.47	21.59
		8	7	21.56	21.52	21.37
		15	0	21.38	21.45	21.41
	16QAM	1	0	21.58	21.44	21.61
		1	7	21.39	21.61	21.54
		1	14	21.63	21.55	21.36
		8	0	20.51	20.58	20.43
		8	3	20.21	20.37	20.41
		8	7	20.41	20.25	20.21
		15	0	20.22	20.46	20.58
	64QAM	1	0	20.49	20.62	20.73
		1	7	20.57	20.60	20.58
		1	14	20.52	20.72	20.69
		8	0	19.33	19.32	19.42
		8	3	19.31	19.39	19.35
		8	7	19.59	19.56	19.45
		15	0	19.50	19.56	19.42
	256QAM	1	0	17.19	17.50	17.27
		1	7	17.32	17.42	17.26
		1	14	17.21	17.45	17.45
		8	0	17.45	17.54	17.58
		8	3	17.60	17.35	17.22
		8	7	17.35	17.24	17.37
		15	0	17.44	17.47	17.32

Band/BW	Modulation	RB Size	RB offset	Low CH18625	Mid CH18900	High CH19175
				Frequency 1852.5 MHz	Frequency 1880 MHz	Frequency 1907.5 MHz
2/ 5	QPSK	1	0	22.61	22.64	22.57
		1	12	22.62	22.57	22.54
		1	24	22.40	22.31	22.40
		12	0	21.54	21.44	21.47
		12	6	21.57	21.49	21.45
		12	13	21.51	21.35	21.46
		25	0	21.39	21.30	21.28
	16QAM	1	0	21.51	21.49	21.68
		1	12	21.55	21.43	21.61
		1	24	21.58	21.68	21.44
		12	0	20.34	20.51	20.40
		12	6	20.25	20.41	20.56
		12	13	20.53	20.37	20.31
		25	0	20.31	20.58	20.58
	64QAM	1	0	20.54	20.56	20.69
		1	12	20.60	20.71	20.65
		1	24	20.56	20.59	20.79
		12	0	19.34	19.48	19.27
		12	6	19.34	19.54	19.47
		12	13	19.47	19.54	19.32
		25	0	19.38	19.49	19.53
	256QAM	1	0	17.20	17.55	17.22
		1	12	17.43	17.42	17.27
		1	24	17.24	17.42	17.41
		12	0	17.55	17.39	17.57
		12	6	17.53	17.33	17.42
		12	13	17.30	17.35	17.45
		25	0	17.49	17.56	17.46

Band/BW	Modulation	RB Size	RB offset	Low CH 18650	Mid CH 18900	High CH 19150
				Frequency 1855 MHz	Frequency 1880 MHz	Frequency 1905 MHz
2/ 10	QPSK	1	0	22.60	22.68	22.45
		1	24	22.70	22.53	22.49
		1	49	22.52	22.46	22.44
		25	0	21.64	21.46	21.45
		25	12	21.69	21.57	21.46
		25	25	21.41	21.53	21.34
		50	0	21.53	21.43	21.32
	16QAM	1	0	21.58	21.45	21.64
		1	24	21.34	21.48	21.40
		1	49	21.56	21.65	21.38
		25	0	20.42	20.51	20.42
		25	12	20.42	20.49	20.42
		25	25	20.57	20.32	20.28
		50	0	20.39	20.53	20.48
	64QAM	1	0	20.52	20.51	20.64
		1	24	20.48	20.73	20.52
		1	49	20.47	20.66	20.69
		25	0	19.47	19.50	19.40
		25	12	19.47	19.41	19.29
		25	25	19.56	19.65	19.44
		50	0	19.42	19.56	19.46
	256QAM	1	0	17.29	17.36	17.20
		1	24	17.49	17.39	17.39
		1	49	17.30	17.28	17.46
		25	0	17.41	17.46	17.57
		25	12	17.56	17.27	17.29
		25	25	17.46	17.23	17.43
		50	0	17.39	17.53	17.50

Band/BW	Modulation	RB Size	RB offset	Low CH 18675	Mid CH 18900	High CH 19125
				Frequency 1857.5 MHz	Frequency 1880 MHz	Frequency 1902.5 MHz
2/ 15	QPSK	1	0	22.68	22.48	22.43
		1	37	22.60	22.66	22.43
		1	74	22.60	22.34	22.33
		36	0	21.60	21.40	21.49
		36	19	21.62	21.63	21.61
		36	39	21.38	21.36	21.29
		75	0	21.50	21.42	21.21
	16QAM	1	0	21.53	21.51	21.51
		1	37	21.37	21.44	21.47
		1	74	21.51	21.69	21.33
		36	0	20.51	20.49	20.37
		36	19	20.24	20.41	20.43
		36	39	20.44	20.31	20.38
		75	0	20.22	20.57	20.45
	64QAM	1	0	20.48	20.57	20.76
		1	37	20.57	20.69	20.51
		1	74	20.52	20.68	20.78
		36	0	19.46	19.39	19.40
		36	19	19.50	19.47	19.43
		36	39	19.62	19.57	19.28
		75	0	19.50	19.49	19.41
	256QAM	1	0	17.25	17.41	17.22
		1	37	17.37	17.45	17.33
		1	74	17.21	17.29	17.51
		36	0	17.39	17.32	17.53
		36	19	17.53	17.40	17.31
		36	39	17.48	17.44	17.43
		75	0	17.44	17.53	17.39

Band/BW	Modulation	RB Size	RB offset	Low CH 18700	Mid CH 18900	High CH 19100
				Frequency 1860 MHz	Frequency 1880 MHz	Frequency 1900 MHz
2/ 20	QPSK	1	0	**22.71**	22.68	22.64
		1	50	22.70	22.65	22.58
		1	99	22.59	22.47	22.43
		50	0	21.64	21.59	21.53
		50	25	21.72	21.67	21.62
		50	50	21.55	21.54	21.48
		100	0	21.56	21.45	21.42
	16QAM	1	0	21.57	21.65	21.69
		1	50	21.54	21.64	21.60
		1	99	21.66	21.73	21.51
		50	0	20.50	20.57	20.56
		50	25	20.42	20.56	20.58
		50	50	20.56	20.42	20.42
		100	0	20.41	20.59	20.60
	64QAM	1	0	20.66	20.64	20.79
		1	50	20.63	20.79	20.70
		1	99	20.67	20.75	20.80
		50	0	19.50	19.51	19.45
		50	25	19.49	19.54	19.49
		50	50	19.62	19.67	19.49
		100	0	19.51	19.55	19.54
	256QAM	1	0	17.40	17.57	17.39
		1	50	17.49	17.52	17.45
		1	99	17.42	17.46	17.54
		50	0	17.54	17.53	17.57
		50	25	17.59	17.48	17.43
		50	50	17.50	17.43	17.55
		100	0	17.50	17.59	17.50

LTE BAND 25						
Band/BW	Modulation	RB Size	RB offset	Low CH 26065	Mid CH 26365	High CH 26665
				Frequency 1852.5 MHz	Frequency 1882.5 MHz	Frequency 1912.5 MHz
25/ 5	QPSK	1	0	22.78	22.66	22.49
		1	2	22.85	22.57	22.45
		1	5	22.50	22.36	22.13
		3	0	22.71	22.68	22.48
		3	1	22.74	22.60	22.53
		3	3	22.82	22.61	22.38
		6	0	21.79	21.51	21.47
	16QAM	1	0	21.92	21.77	21.66
		1	2	21.67	21.52	21.47
		1	5	21.70	21.46	21.22
		3	0	21.52	21.56	21.24
		3	1	21.60	21.42	21.39
		3	3	21.58	21.55	21.34
		6	0	20.87	20.65	20.43
	64QAM	1	0	20.90	20.87	20.58
		1	2	20.73	20.61	20.56
		1	5	20.71	20.57	20.52
		3	0	20.85	20.66	20.62
		3	1	20.59	20.60	20.56
		3	3	20.77	20.55	20.45
		6	0	19.67	19.56	19.56
	256QAM	1	0	17.84	17.74	17.52
		1	2	17.79	17.68	17.61
		1	5	17.76	17.58	17.21
		3	0	17.61	17.66	17.52
		3	1	17.60	17.61	17.21
		3	3	17.70	17.58	17.66
		6	0	17.63	17.53	17.47

Band/BW	Modulation	RB Size	RB offset	Low CH 26090	Mid CH 26365	High CH 26640
				Frequency 1855 MHz	Frequency 1882.5 MHz	Frequency 1910 MHz
25/ 10	QPSK	1	0	22.71	22.56	22.42
		1	7	22.71	22.65	22.38
		1	14	22.40	22.45	22.30
		8	0	21.71	21.57	21.47
		8	3	21.78	21.74	21.65
		8	7	21.90	21.71	21.48
		15	0	21.82	21.58	21.51
	16QAM	1	0	21.96	21.78	21.71
		1	7	21.80	21.65	21.58
		1	14	21.64	21.46	21.27
		8	0	20.52	20.55	20.34
		8	3	20.68	20.47	20.34
		8	7	20.45	20.55	20.31
		15	0	20.79	20.62	20.59
	64QAM	1	0	20.76	20.71	20.62
		1	7	20.77	20.60	20.59
		1	14	20.77	20.61	20.57
		8	0	19.90	19.67	19.65
		8	3	19.66	19.67	19.56
		8	7	19.73	19.51	19.56
		15	0	19.67	19.64	19.52
	256QAM	1	0	17.91	17.73	17.60
		1	7	17.66	17.62	17.61
		1	14	17.60	17.53	17.34
		8	0	17.61	17.58	17.46
		8	3	17.66	17.44	17.37
		8	7	17.79	17.61	17.73
		15	0	17.79	17.47	17.55

Band/BW	Modulation	RB Size	RB offset	Low CH 26115	Mid CH 26365	High CH 26615
				Frequency 1857.5 MHz	Frequency 1882.5 MHz	Frequency 1907.5 MHz
25/ 15	QPSK	1	0	22.86	22.59	22.59
		1	12	22.74	22.59	22.49
		1	24	22.46	22.42	22.29
		12	0	21.68	21.56	21.44
		12	6	21.84	21.68	21.55
		12	13	21.80	21.71	21.40
		25	0	21.82	21.61	21.59
	16QAM	1	0	21.78	21.77	21.65
		1	12	21.76	21.72	21.60
		1	24	21.81	21.52	21.24
		12	0	20.58	20.44	20.27
		12	6	20.67	20.61	20.36
		12	13	20.52	20.40	20.42
		25	0	20.85	20.77	20.55
	64QAM	1	0	20.83	20.73	20.66
		1	12	20.80	20.73	20.67
		1	24	20.67	20.55	20.60
		12	0	19.96	19.61	19.59
		12	6	19.58	19.62	19.60
		12	13	19.76	19.57	19.43
		25	0	19.66	19.56	19.49
	256QAM	1	0	17.98	17.68	17.62
		1	12	17.86	17.60	17.54
		1	24	17.78	17.59	17.24
		12	0	17.56	17.64	17.45
		12	6	17.68	17.51	17.32
		12	13	17.88	17.76	17.66
		25	0	17.64	17.56	17.60

Band/BW	Modulation	RB Size	RB offset	Low CH 26140	Mid CH 26365	High CH 26590
				Frequency 1860 MHz	Frequency 1882.5 MHz	Frequency 1905 MHz
25/ 20	QPSK	1	0	22.83	22.55	22.45
		1	24	22.70	22.61	22.42
		1	49	22.41	22.35	22.13
		25	0	21.66	21.59	21.46
		25	12	21.73	21.75	21.55
		25	25	21.84	21.65	21.56
		50	0	21.75	21.60	21.49
	16QAM	1	0	21.91	21.80	21.56
		1	24	21.61	21.66	21.62
		1	49	21.70	21.52	21.27
		25	0	20.48	20.48	20.41
		25	12	20.59	20.44	20.49
		25	25	20.56	20.45	20.26
		50	0	20.98	20.63	20.53
	64QAM	1	0	20.91	20.83	20.61
		1	24	20.93	20.68	20.58
		1	49	20.81	20.68	20.51
		25	0	19.85	19.55	19.61
		25	12	19.70	19.49	19.61
		25	25	19.71	19.56	19.48
		50	0	19.85	19.65	19.47
	256QAQAM	1	0	17.97	17.65	17.63
		1	24	17.70	17.56	17.57
		1	49	17.73	17.46	17.32
		25	0	17.70	17.74	17.46
		25	12	17.54	17.60	17.26
		25	25	17.73	17.59	17.68
		50	0	17.74	17.59	17.59

EIRP POWER (dBm)

LTE Band 2							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20M-QPSK	18700	1860	22.71	0.5	23.21	209.41	2
	18900	1880	22.68	0.5	23.18	207.97	2
	19100	1900	22.64	0.5	23.14	206.06	2
20M-16QAM	18700	1860	21.66	0.5	22.16	164.44	2
	18900	1880	21.73	0.5	22.23	167.11	2
	19100	1900	21.69	0.5	22.19	165.58	2
20M-64QAM	18700	1860	20.67	0.5	21.17	130.92	2
	18900	1880	20.79	0.5	21.29	134.59	2
	19100	1900	20.80	0.5	21.30	134.90	2
20M-256QAM	18700	1860	17.59	0.5	18.09	64.42	2
	18900	1880	17.59	0.5	18.09	64.42	2
	19100	1900	17.57	0.5	18.07	64.12	2
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
15M-QPSK	18675	1857.5	22.68	0.5	23.18	207.97	2
	18900	1880	22.66	0.5	23.16	207.01	2
	19125	1902.5	22.43	0.5	22.93	196.34	2
15M-16QAM	18675	1857.5	21.53	0.5	22.03	159.59	2
	18900	1880	21.69	0.5	22.19	165.58	2
	19125	1902.5	21.51	0.5	22.01	158.85	2
15M-64QAM	18675	1857.5	20.57	0.5	21.07	127.94	2
	18900	1880	20.69	0.5	21.19	131.52	2
	19125	1902.5	20.78	0.5	21.28	134.28	2
15M-256QAM	18675	1857.5	17.53	0.5	18.03	63.53	2
	18900	1880	17.53	0.5	18.03	63.53	2
	19125	1902.5	17.53	0.5	18.03	63.53	2

BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	18650	1855	22.70	0.5	23.20	208.93	2
	18900	1880	22.68	0.5	23.18	207.97	2
	19150	1905	22.49	0.5	22.99	199.07	2
10M-16QAM	18650	1855	21.58	0.5	22.08	161.44	2
	18900	1880	21.65	0.5	22.15	164.06	2
	19150	1905	21.64	0.5	22.14	163.68	2
10M-64QAM	18650	1855	20.52	0.5	21.02	126.47	2
	18900	1880	20.73	0.5	21.23	132.74	2
	19150	1905	20.69	0.5	21.19	131.52	2
10M-256QAM	18650	1855	17.56	0.5	18.06	63.97	2
	18900	1880	17.53	0.5	18.03	63.53	2
	19150	1905	17.57	0.5	18.07	64.12	2
BW [MHz] Modulation	**Channel**	**Frequency (MHz)**	**Conducted Power (dBm)**	**Gain (dB)**	**EIRP (dBm)**	**EIRP (mW)**	**Limit (W)**
5M-QPSK	18625	1852.5	22.62	0.5	23.12	205.12	2
	18900	1880	22.64	0.5	23.14	206.06	2
	19175	1907.5	22.57	0.5	23.07	202.77	2
5M-16QAM	18625	1852.5	21.58	0.5	22.08	161.44	2
	18900	1880	21.68	0.5	22.18	165.20	2
	19175	1907.5	21.68	0.5	22.18	165.20	2
5M-64QAM	18625	1852.5	20.60	0.5	21.10	128.82	2
	18900	1880	20.71	0.5	21.21	132.13	2
	19175	1907.5	20.79	0.5	21.29	134.59	2
5M-256QAM	18625	1852.5	17.55	0.5	18.05	63.83	2
	18900	1880	17.56	0.5	18.06	63.97	2
	19175	1907.5	17.57	0.5	18.07	64.12	2

BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
3M-QPSK	18615	1851.5	22.60	0.5	23.10	204.17	2
	18900	1880	22.69	0.5	23.19	208.45	2
	19185	1908.5	22.45	0.5	22.95	197.24	2
3M-16QAM	18615	1851.5	21.63	0.5	22.13	163.31	2
	18900	1880	21.61	0.5	22.11	162.55	2
	19185	1908.5	21.61	0.5	22.11	162.55	2
3M-64QAM	18615	1851.5	20.57	0.5	21.07	127.94	2
	18900	1880	20.72	0.5	21.22	132.43	2
	19185	1908.5	20.73	0.5	21.23	132.74	2
3M-256QAM	18615	1851.5	17.60	0.5	18.10	64.57	2
	18900	1880	17.54	0.5	18.04	63.68	2
	19185	1908.5	17.58	0.5	18.08	64.27	2
BW [MHz] Modulation	**Channel**	**Frequency (MHz)**	**Conducted Power (dBm)**	**Gain (dB)**	**EIRP (dBm)**	**EIRP (mW)**	**Limit (W)**
1.4M-QPSK	18607	1850.7	22.61	0.5	23.11	204.64	2
	18900	1880	22.62	0.5	23.12	205.12	2
	19193	1909.3	22.57	0.5	23.07	202.77	2
1.4M-16QAM	18607	1850.7	21.54	0.5	22.04	159.96	2
	18900	1880	21.68	0.5	22.18	165.20	2
	19193	1909.3	21.61	0.5	22.11	162.55	2
1.4M-64QAM	18607	1850.7	20.54	0.5	21.04	127.06	2
	18900	1880	20.56	0.5	21.06	127.64	2
	19193	1909.3	20.75	0.5	21.25	133.35	2
1.4M-256QAM	18607	1850.7	17.42	0.5	17.92	61.94	2
	18900	1880	17.51	0.5	18.01	63.24	2
	19193	1909.3	17.46	0.5	17.96	62.52	2

LTE Band 25							
BW [MHz] Modulation	**Channel**	**Frequency (MHz)**	**Conducted Power (dBm)**	**Gain (dB)**	**EIRP (dBm)**	**EIRP (mW)**	**Limit (W)**
20M-QPSK	26140	1860	22.88	0.5	23.38	217.77	2
	26340	1880	22.75	0.5	23.25	211.35	2
	26590	1905	22.61	0.5	23.11	204.64	2
20M-16QAM	26140	1860	21.95	0.5	22.45	175.79	2
	26340	1880	21.84	0.5	22.34	171.40	2
	26590	1905	21.75	0.5	22.25	167.88	2
20M-64QAM	26140	1860	20.95	0.5	21.45	139.64	2
	26340	1880	20.88	0.5	21.38	137.40	2
	26590	1905	20.78	0.5	21.28	134.28	2
20M-256QAM	26140	1860	18.02	0.5	18.52	71.12	2
	26340	1880	17.80	0.5	18.30	67.61	2
	26590	1905	17.72	0.5	18.22	66.37	2
BW [MHz] Modulation	**Channel**	**Frequency (MHz)**	**Conducted Power (dBm)**	**Gain (dB)**	**EIRP (dBm)**	**EIRP (mW)**	**Limit (W)**
15M-QPSK	26115	1857.5	22.88	0.5	23.38	217.77	2
	26340	1880	22.54	0.5	23.04	201.37	2
	26615	1907.5	22.53	0.5	23.03	200.91	2
15M-16QAM	26115	1857.5	21.96	0.5	22.46	176.20	2
	26340	1880	21.70	0.5	22.20	165.96	2
	26615	1907.5	21.67	0.5	22.17	164.82	2
15M-64QAM	26115	1857.5	20.76	0.5	21.26	133.66	2
	26340	1880	20.79	0.5	21.29	134.59	2
	26615	1907.5	20.75	0.5	21.25	133.35	2
15M-256QAM	26115	1857.5	17.90	0.5	18.40	69.18	2
	26340	1880	17.67	0.5	18.17	65.61	2
	26615	1907.5	17.70	0.5	18.20	66.07	2

BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
10M-QPSK	26090	1855	22.83	0.5	23.33	215.28	2
	26340	1880	22.61	0.5	23.11	204.64	2
	26640	1910	22.45	0.5	22.95	197.24	2
10M-16QAM	26090	1855	21.91	0.5	22.41	174.18	2
	26340	1880	21.80	0.5	22.30	169.82	2
	26640	1910	21.62	0.5	22.12	162.93	2
10M-64QAM	26090	1855	20.93	0.5	21.43	139.00	2
	26340	1880	20.83	0.5	21.33	135.83	2
	26640	1910	20.61	0.5	21.11	129.12	2
10M-256QAM	26090	1855	17.97	0.5	18.47	70.31	2
	26340	1880	17.74	0.5	18.24	66.68	2
	26640	1910	17.68	0.5	18.18	65.77	2
BW [MHz] Modulation	**Channel**	**Frequency (MHz)**	**Conducted Power (dBm)**	**Gain (dB)**	**EIRP (dBm)**	**EIRP (mW)**	**Limit (W)**
5M-QPSK	26065	1852.5	22.86	0.5	23.36	216.77	2
	26340	1880	22.59	0.5	23.09	203.70	2
	26665	1912.5	22.59	0.5	23.09	203.70	2
5M-16QAM	26065	1852.5	21.81	0.5	22.31	170.22	2
	26340	1880	21.77	0.5	22.27	168.66	2
	26665	1912.5	21.65	0.5	22.15	164.06	2
5M-64QAM	26065	1852.5	20.83	0.5	21.33	135.83	2
	26340	1880	20.73	0.5	21.23	132.74	2
	26665	1912.5	20.67	0.5	21.17	130.92	2
5M-256QAM	26065	1852.5	17.98	0.5	18.48	70.47	2
	26340	1880	17.76	0.5	18.26	66.99	2
	26665	1912.5	17.66	0.5	18.16	65.46	2

BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
3M-QPSK	26055	1851.5	22.71	0.5	23.21	209.41	2
	26340	1880	22.65	0.5	23.15	206.54	2
	26675	1913.5	22.42	0.5	22.92	195.88	2
3M-16QAM	26055	1851.5	21.96	0.5	22.46	176.20	2
	26340	1880	21.78	0.5	22.28	169.04	2
	26675	1913.5	21.71	0.5	22.21	166.34	2
3M-64QAM	26055	1851.5	20.77	0.5	21.27	133.97	2
	26340	1880	20.71	0.5	21.21	132.13	2
	26675	1913.5	20.62	0.5	21.12	129.42	2
3M-256QAM	26055	1851.5	17.91	0.5	18.41	69.34	2
	26340	1880	17.73	0.5	18.23	66.53	2
	26675	1913.5	17.73	0.5	18.23	66.53	2
BW [MHz] Modulation	**Channel**	**Frequency (MHz)**	**Conducted Power (dBm)**	**Gain (dB)**	**EIRP (dBm)**	**EIRP (mW)**	**Limit (W)**
1.4M-QPSK	26047	1850.7	22.85	0.5	23.35	216.27	2
	26340	1880	22.68	0.5	23.18	207.97	2
	26683	1914.3	22.53	0.5	23.03	200.91	2
1.4M-16QAM	26047	1850.7	21.92	0.5	22.42	174.58	2
	26340	1880	21.77	0.5	22.27	168.66	2
	26683	1914.3	21.66	0.5	22.16	164.44	2
1.4M-64QAM	26047	1850.7	20.90	0.5	21.40	138.04	2
	26340	1880	20.87	0.5	21.37	137.09	2
	26683	1914.3	20.62	0.5	21.12	129.42	2
1.4M-256QAM	26047	1850.7	17.84	0.5	18.34	68.23	2
	26340	1880	17.74	0.5	18.24	66.68	2
	26683	1914.3	17.66	0.5	18.16	65.46	2

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILIITY MEASUREMENT

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

3.2.2 TEST PROCEDURE

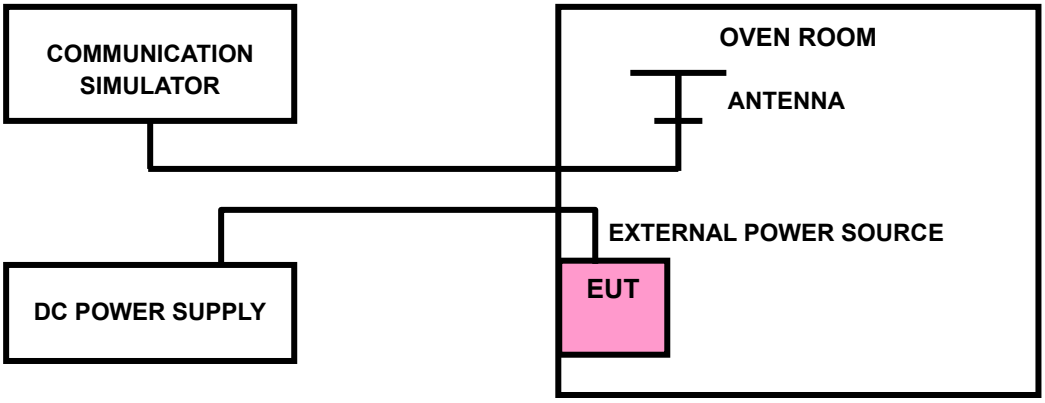
a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.

b. 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.

c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ±0.5℃ 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 Appendix of this test report.

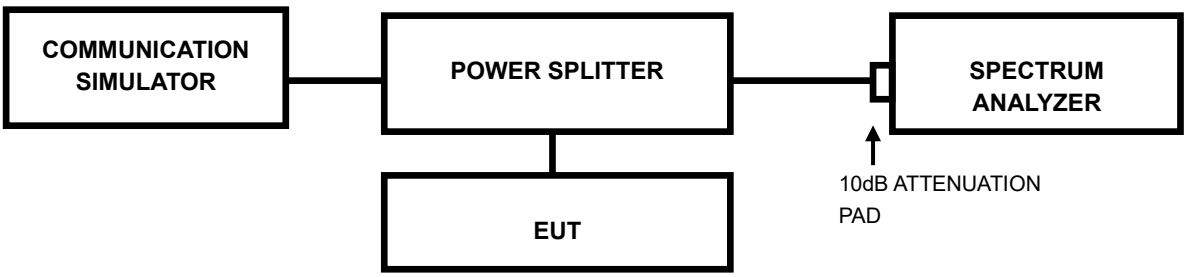
Note: VL = Low voltage(4.75V); VN/NV = Normal voltage(5V); VH = High voltage(5.25V);
NT = Normal temperature (25℃)

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

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

3.3.4 TEST RESULTS

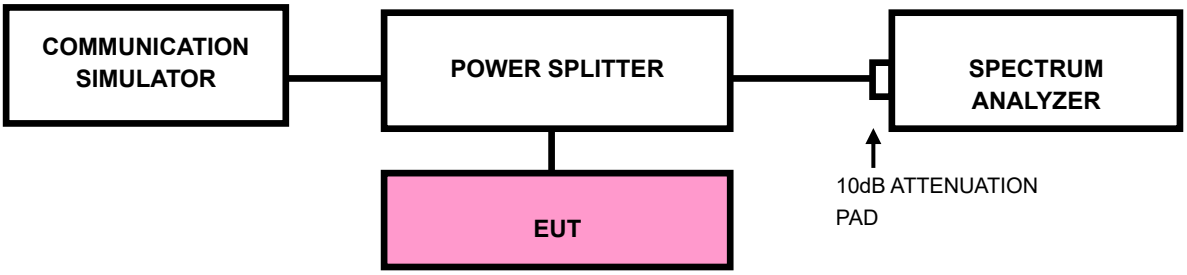
Please Refer to Appendix of this test report.

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) ≧ 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 ≧3 x 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 Appendix of this test report.

3.5 CONDUCTED SPURIOUS EMISSIONS

3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

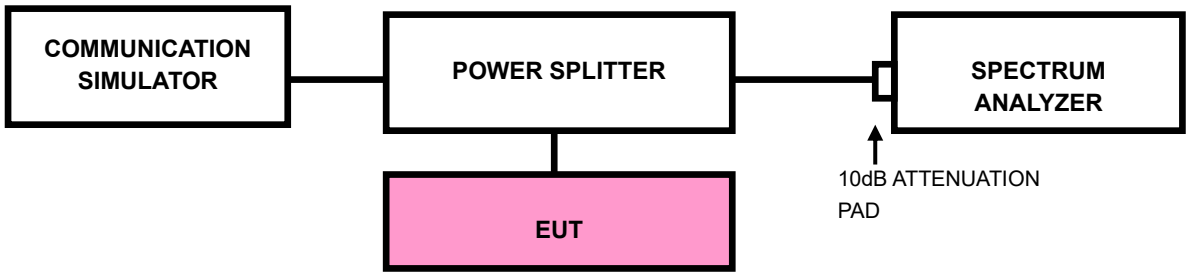
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to –13dBm.

3.5.2 TEST PROCEDURE

a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.

b. 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 Appendix of this test 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. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.

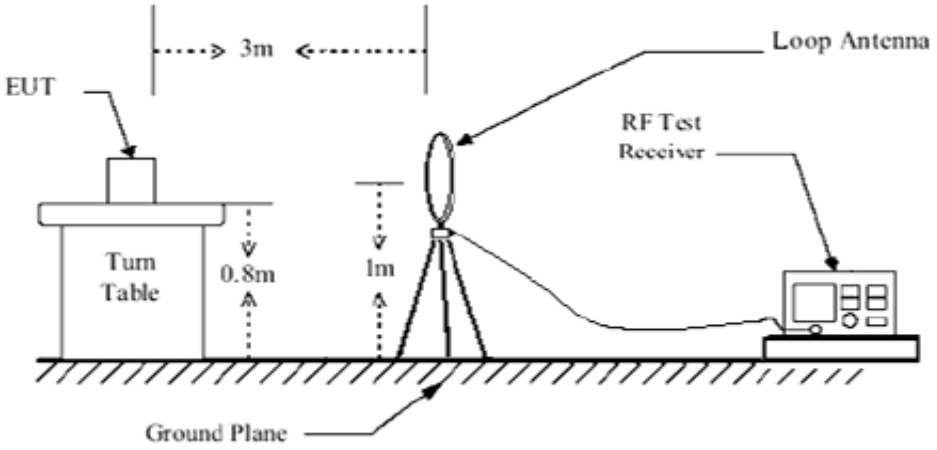
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

3.6.3 DEVIATION FROM TEST STANDARD

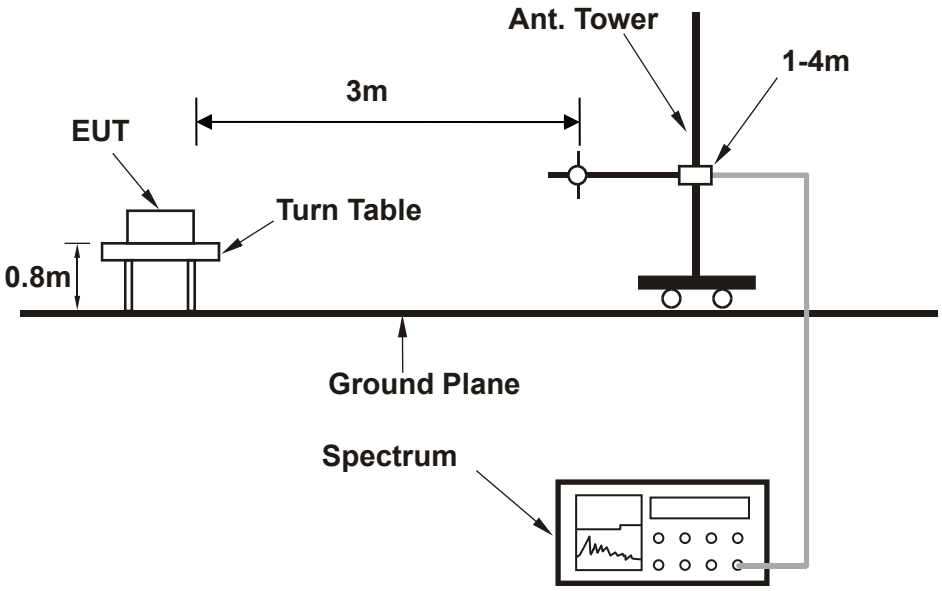
No deviation

3.6.4 TEST SETUP

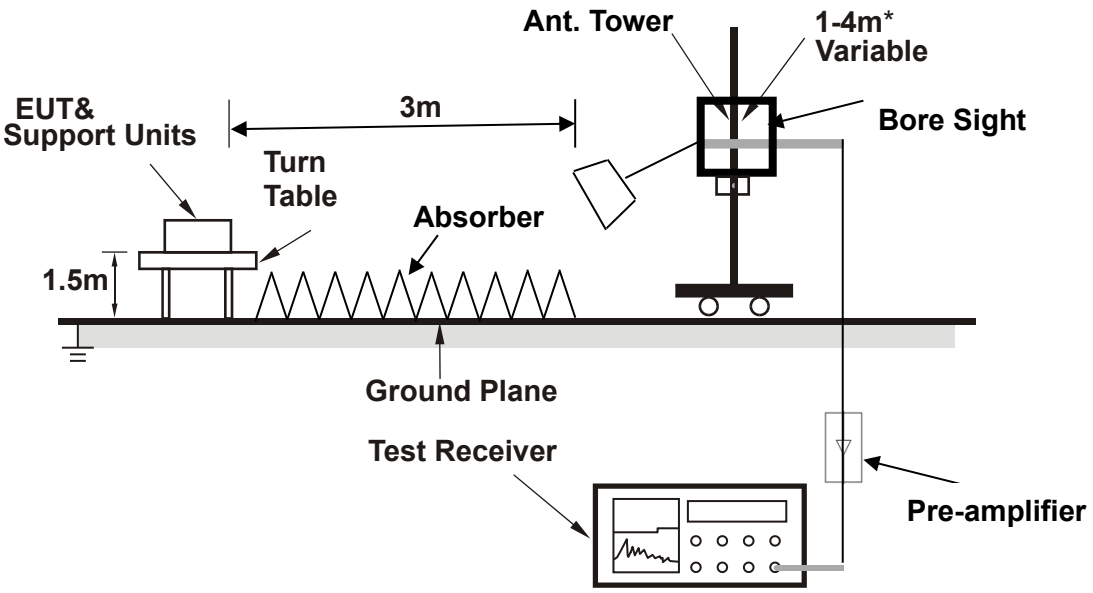
< Frequency Range below 30MHz >



< Frequency Range 30MHz~1GHz >



<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).

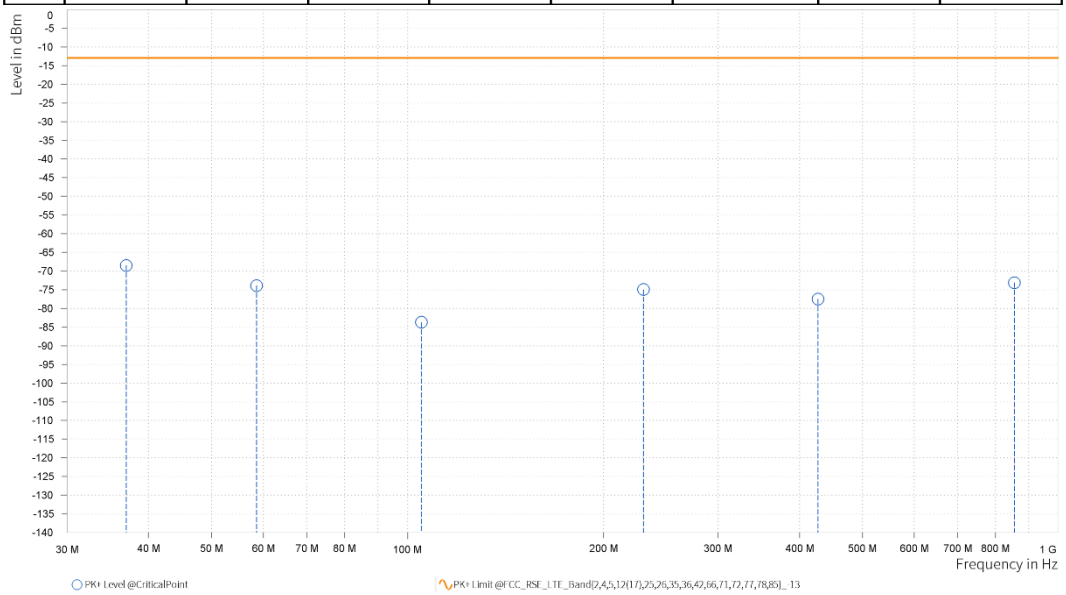
3.6.5 TEST RESULTS

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

BELOW 1GHz WORST-CASE DATA

LTE Band 25 CHANNEL BANDWIDTH: 15MHz / QPSK			
MODE	TX channel 26365	**FREQUENCY RANGE**	30 MHz – 1GHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	**INPUT POWER**	DC 5V
TESTED BY	Hanwen Xu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

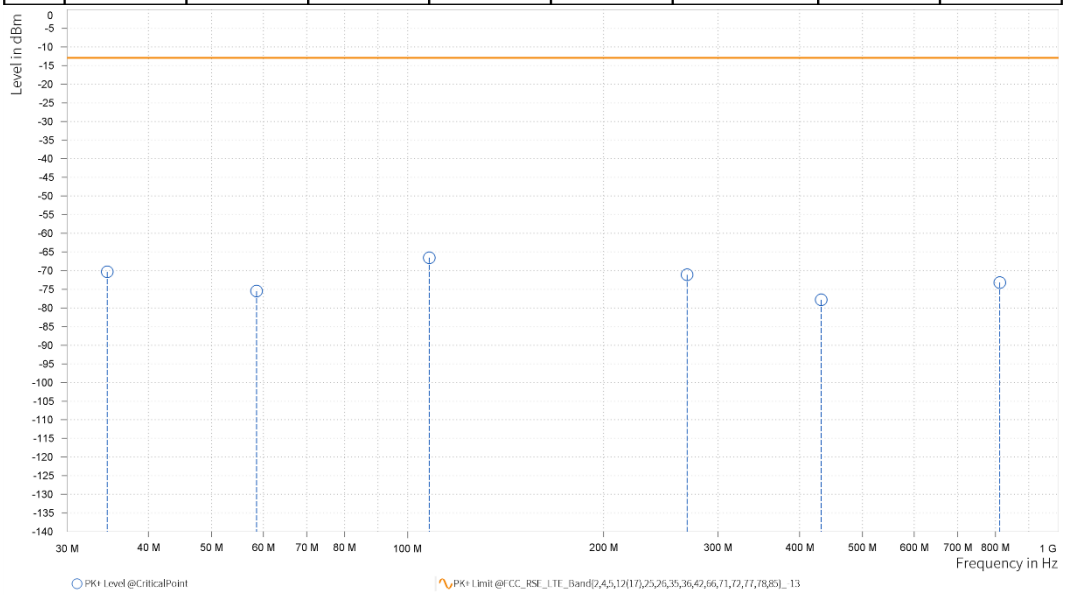
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	36.950	-68.51	-13.00	55.51	0.10	H	355	2.00
1	58.650	-73.89	-13.00	60.89	-3.60	H	1	1.00
1	105.050	-83.72	-13.00	70.72	-10.77	H	4.8	1.00
1	230.450	-74.95	-13.00	61.95	1.13	H	359	2.00
1	427.200	-77.47	-13.00	64.47	1.86	H	42.7	2.00
2	855.258	-73.12	-13.00	60.12	5.01	H	336.2	1.00



MODE	TX channel 26365	FREQUENCY RANGE	30 MHz – 1GHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	DC 5V
TESTED BY	Hanwen Xu		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	34.550	-70.34	-13.00	57.34	-9.83	V	221.6	1.00
1	58.650	-75.48	-13.00	62.48	-3.55	V	316.1	1.00
1	107.950	-66.54	-13.00	53.54	1.97	V	359	1.00
1	268.800	-71.12	-13.00	58.12	-3.42	V	138.4	2.00
1	431.900	-77.82	-13.00	64.82	1.06	V	359	1.00
2	812.588	-73.21	-13.00	60.21	2.78	V	359	1.00

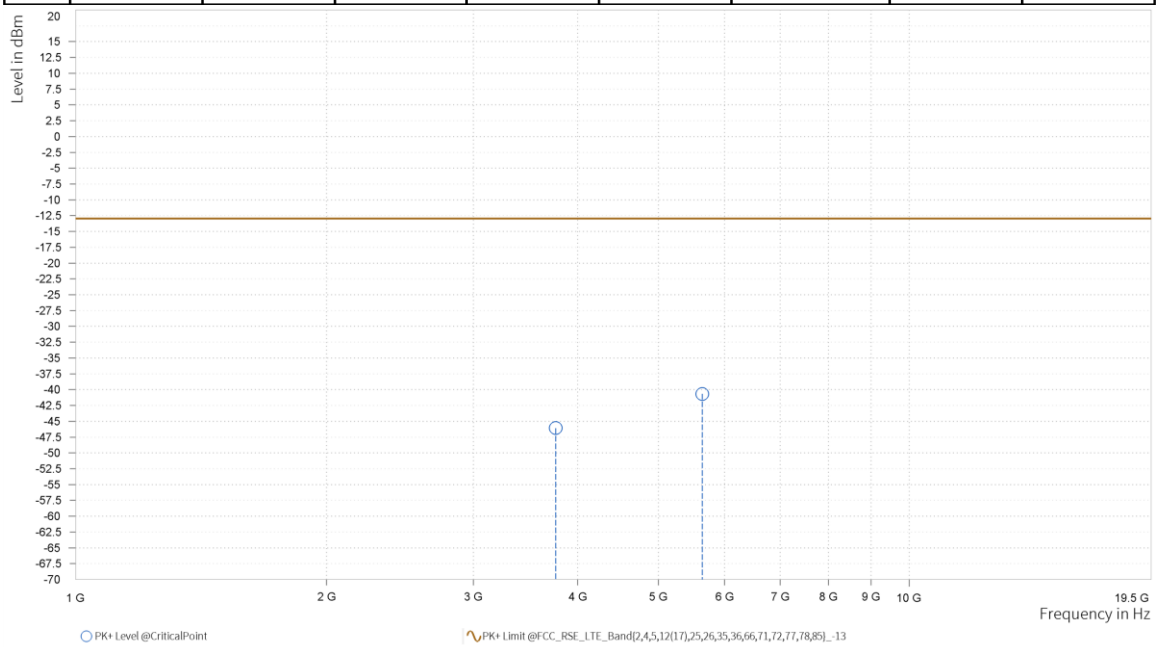


ABOVE 1GHz DATA			

Note: For higher frequency, the emission is too low to be detected.

LTE Band 25			
CHANNEL BANDWIDTH	1.4MHz / QPSK	**MODE**	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	**ENVIRONMENTAL CONDITIONS**	23deg. C, 70%RH
INPUT POWER	DC 5V	**TESTED BY**	Hanwen Xu
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

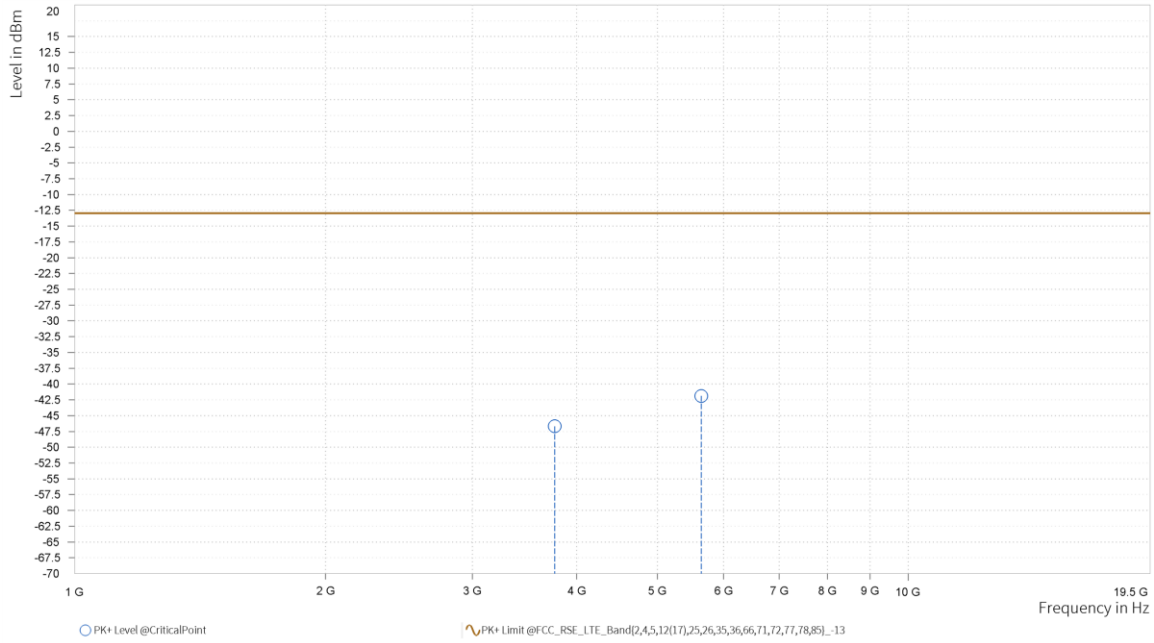
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,764.000	-46.09	-13.00	33.09	28.01	H	359	2.00
4	5,646.000	-40.67	-13.00	27.67	34.27	H	359	2.00



CHANNEL BANDWIDTH	1.4MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	DC 5V	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

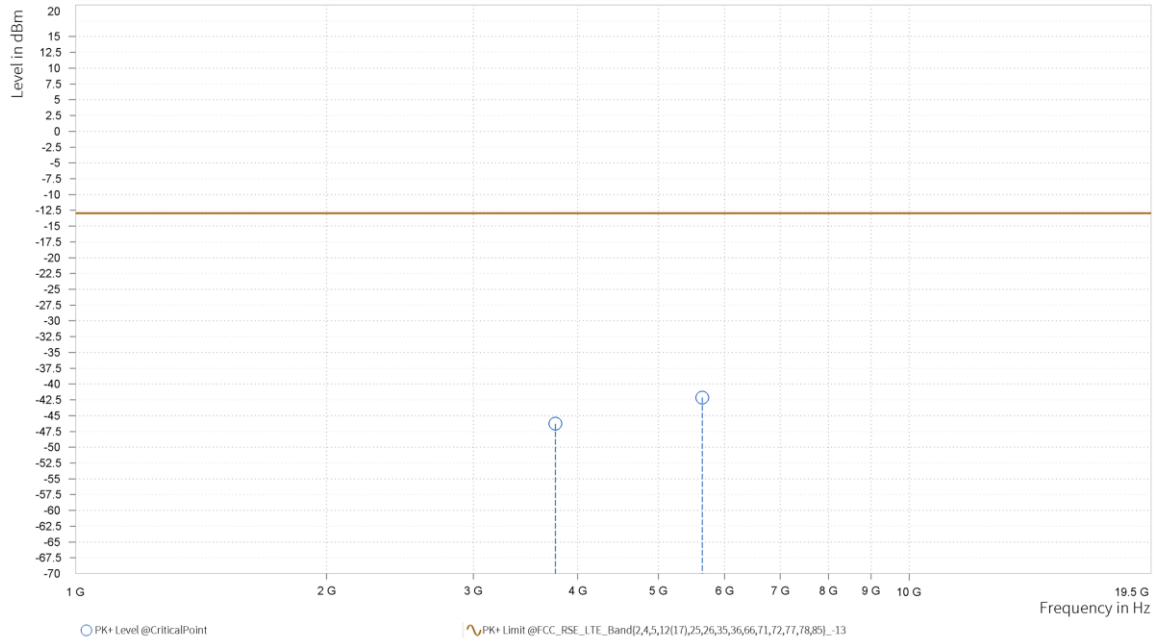
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,764.000	-46.68	-13.00	33.68	27.69	V	359	2.00
4	5,646.000	-41.89	-13.00	28.89	34.01	V	1	2.00



CHANNEL BANDWIDTH	3MHz / QPSK	**MODE**	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	**ENVIRONMENTAL CONDITIONS**	23deg. C, 70%RH
INPUT POWER	DC 5V	**TESTED BY**	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

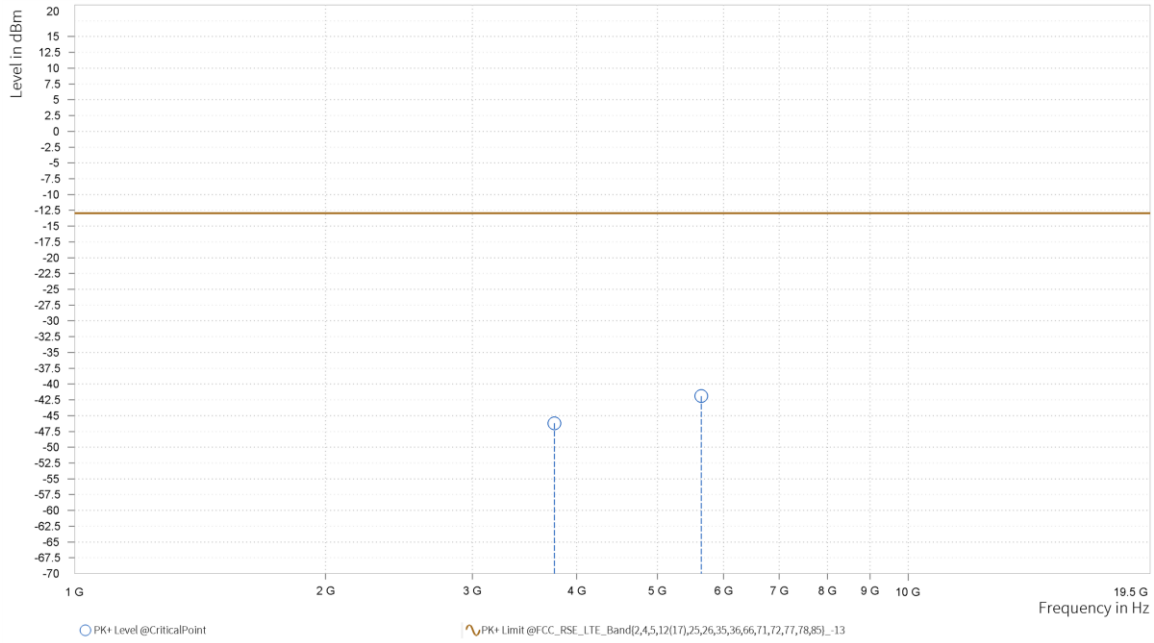
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,762.000	-46.28	-13.00	33.28	28.11	H	359	2.00
4	5,643.000	-42.13	-13.00	29.13	34.26	H	253	2.00



CHANNEL BANDWIDTH	3MHz / QPSK	**MODE**	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	**ENVIRONMENTAL CONDITIONS**	23deg. C, 70%RH
INPUT POWER	DC 5V	**TESTED BY**	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

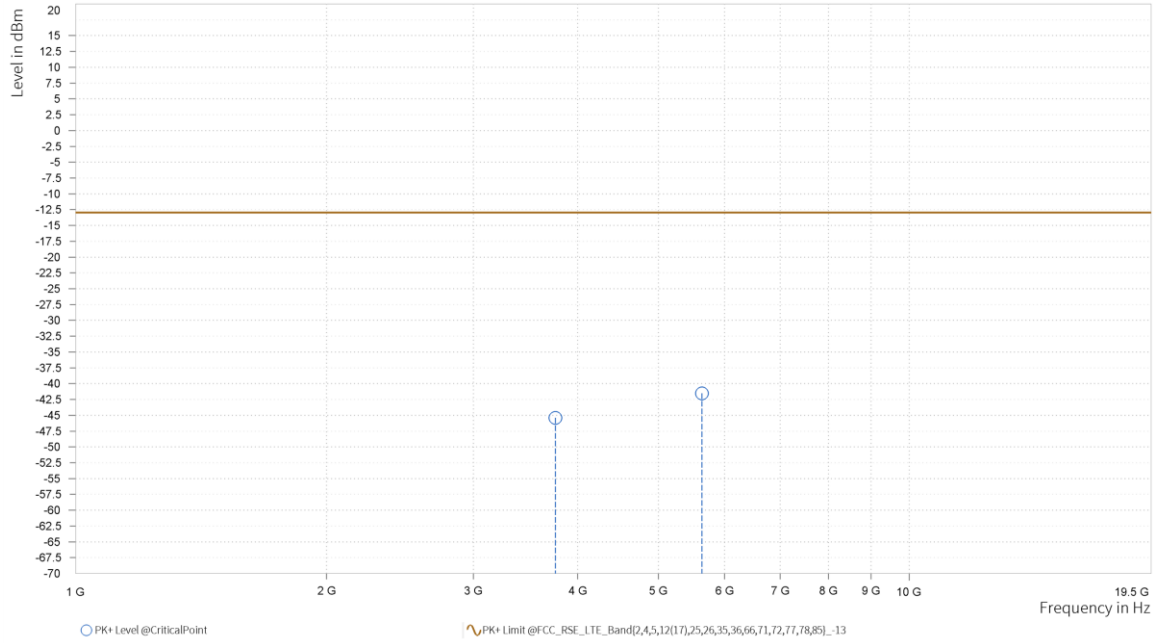
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,762.000	-46.20	-13.00	33.20	27.79	V	250.6	2.00
4	5,643.000	-41.92	-13.00	28.92	33.99	V	1	2.00



CHANNEL BANDWIDTH	5MHz / QPSK	**MODE**	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	**ENVIRONMENTAL CONDITIONS**	23deg. C, 70%RH
INPUT POWER	DC 5V	**TESTED BY**	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

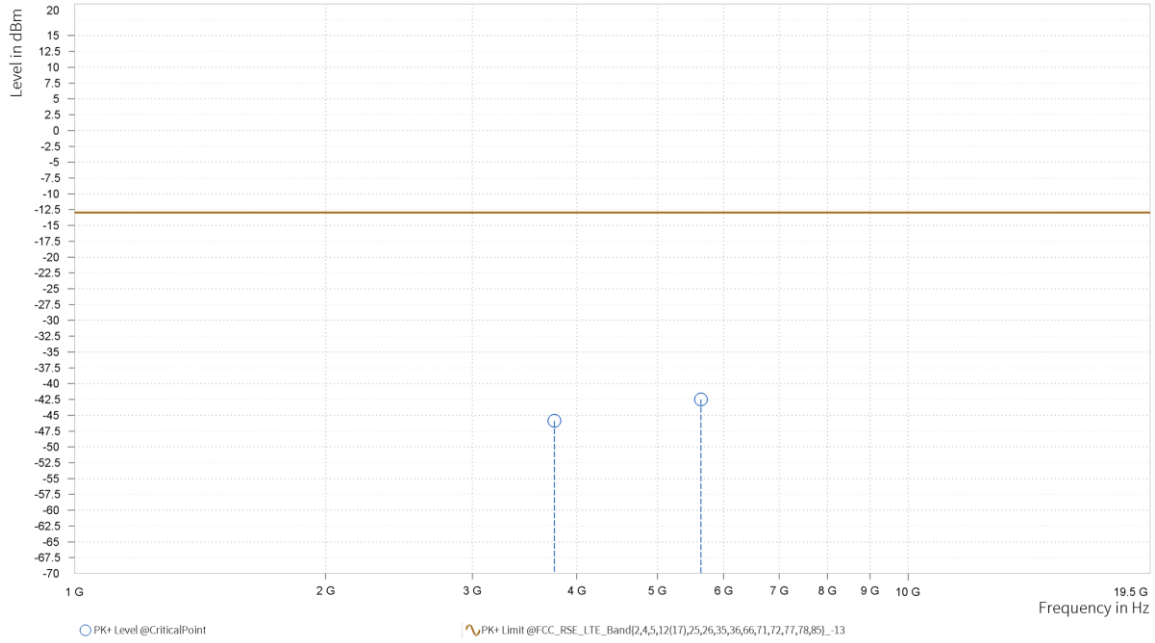
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,760.500	-45.39	-13.00	32.39	28.18	H	275.6	2.00
4	5,640.750	-41.52	-13.00	28.52	34.24	H	275.6	1.00



CHANNEL BANDWIDTH	5MHz / QPSK	**MODE**	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	**ENVIRONMENTAL CONDITIONS**	23deg. C, 70%RH
INPUT POWER	DC 5V	**TESTED BY**	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

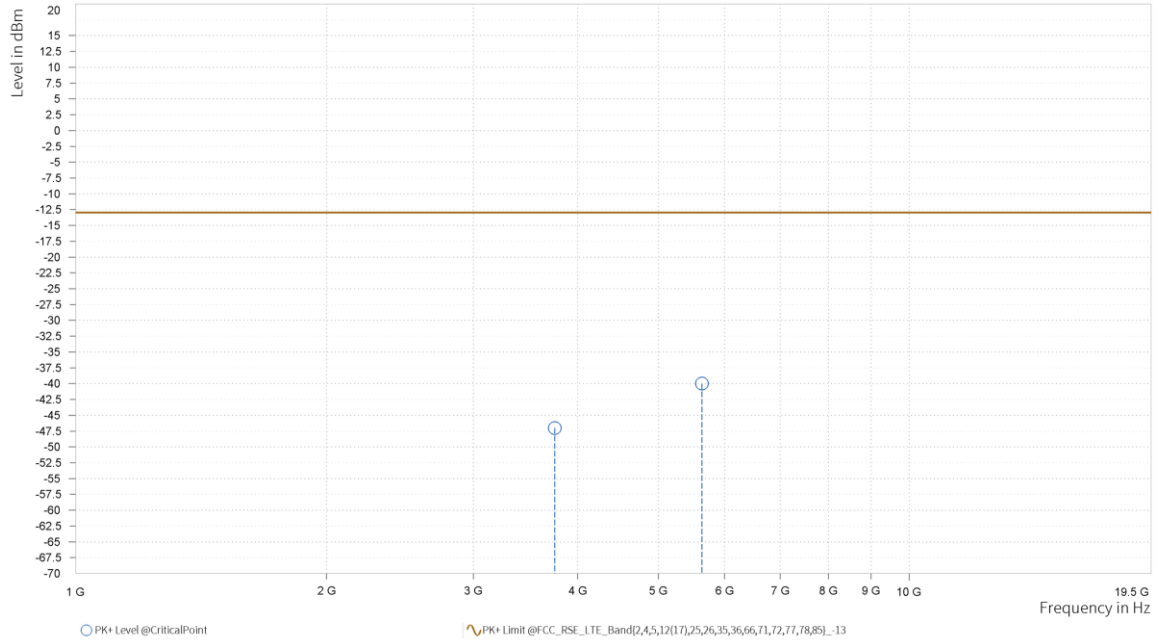
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,760.500	-45.88	-13.00	32.88	27.87	V	1	1.00
4	5,640.750	-42.50	-13.00	29.50	33.98	V	1	2.00



CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	DC 5V	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

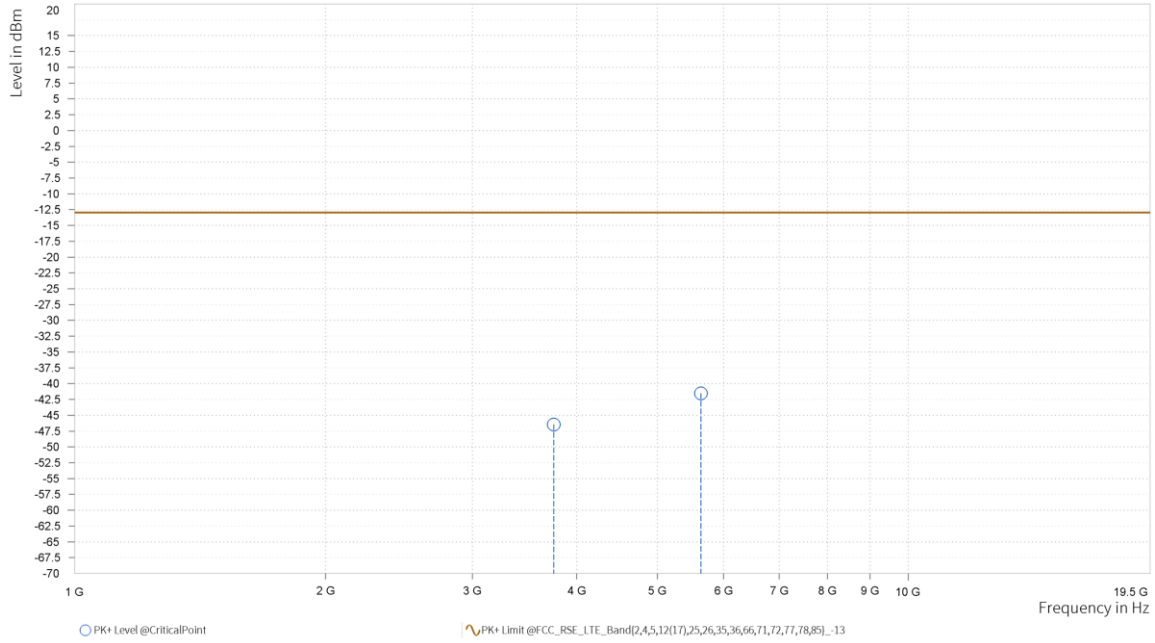
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,756.000	-47.02	-13.00	34.02	27.65	H	1	2.00
4	5,637.000	-40.00	-13.00	27.00	34.81	H	359.1	2.00



CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	DC 5V	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,756.000	-46.45	-13.00	33.45	27.35	V	249.4	2.00
4	5,637.000	-41.54	-13.00	28.54	34.54	V	359.1	2.00

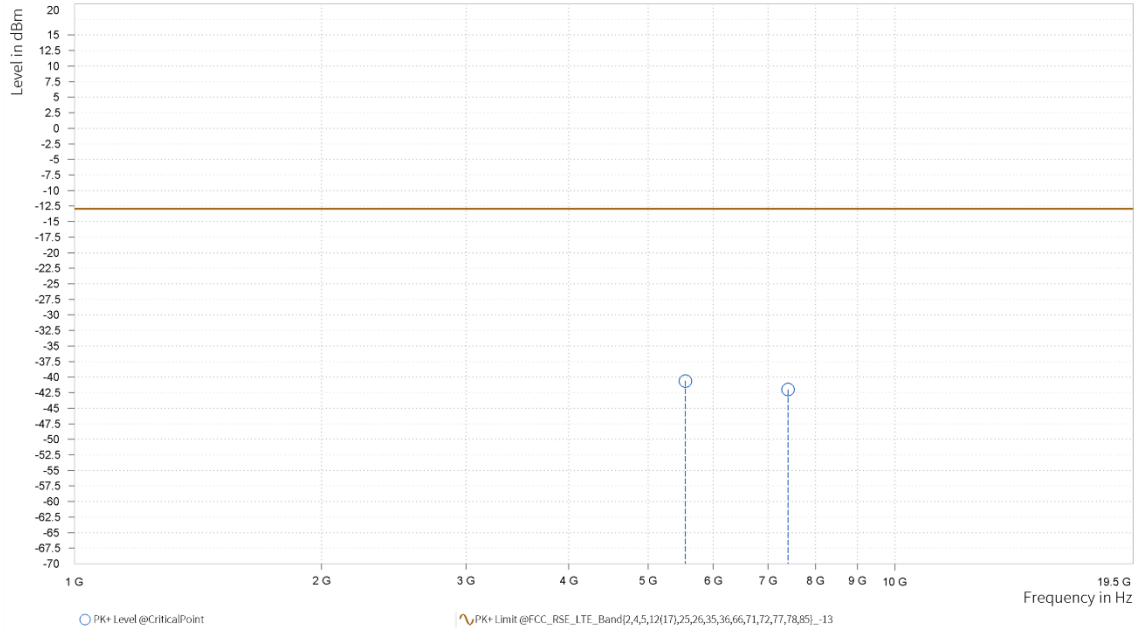


CH26115

CHANNEL BANDWIDTH	15MHz / QPSK	**MODE**	TX channel 26115
FREQUENCY RANGE	Above 1000MHz	**ENVIRONMENTAL CONDITIONS**	23deg. C, 70%RH
INPUT POWER	DC 5V	**TESTED BY**	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

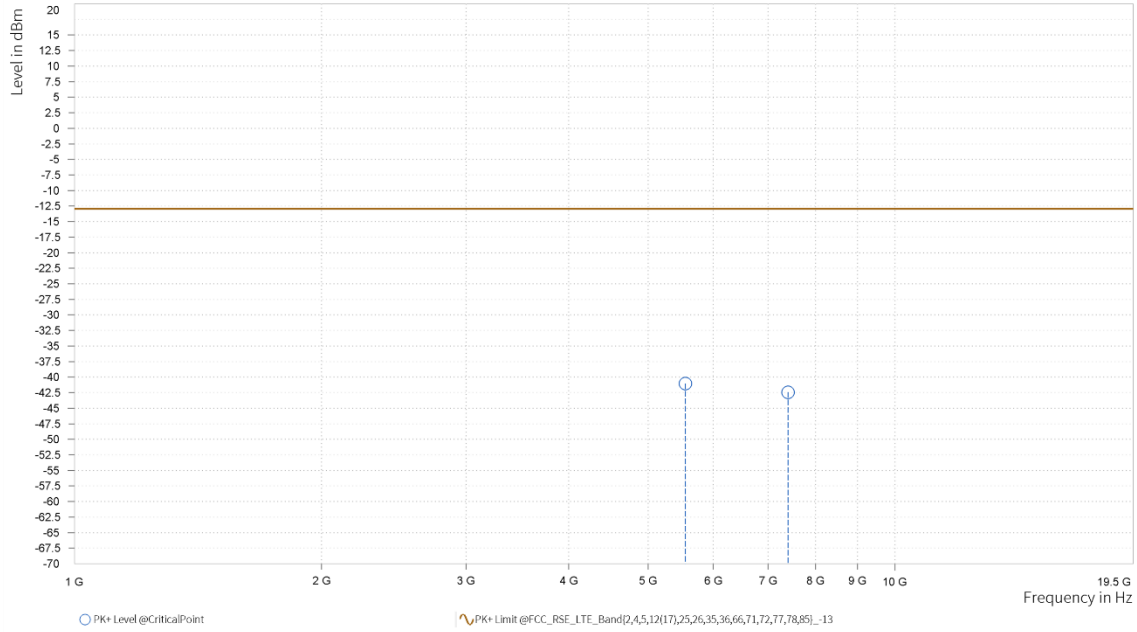
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,552.000	-40.61	-13.00	27.61	34.54	H	251.8	2.00
4	7,403.000	-42.00	-13.00	29.00	34.85	H	359.1	2.00



CHANNEL BANDWIDTH	15MHz / QPSK	MODE	TX channel 26115
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	DC 5V	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

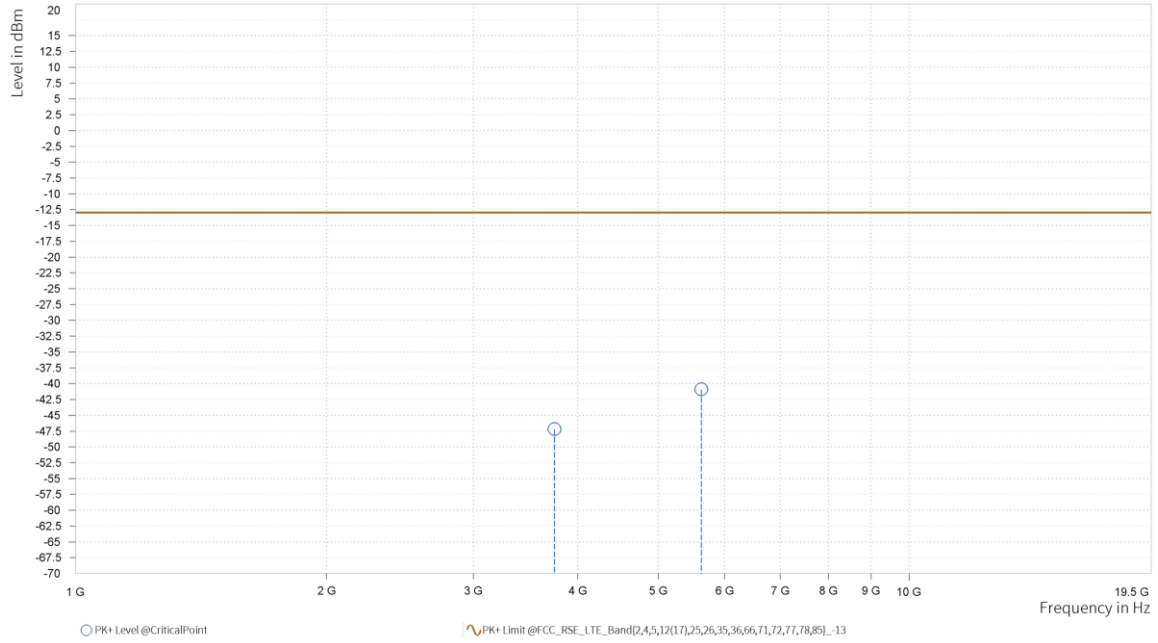
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	5,552.000	-41.02	-13.00	28.02	34.29	V	1	2.00
4	7,403.000	-42.43	-13.00	29.43	35.11	V	1	2.00



CH26365

CHANNEL BANDWIDTH	15MHz / QPSK	**MODE**	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	**ENVIRONMENTAL CONDITIONS**	23deg. C, 70%RH
INPUT POWER	DC 5V	**TESTED BY**	Hanwen Xu
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

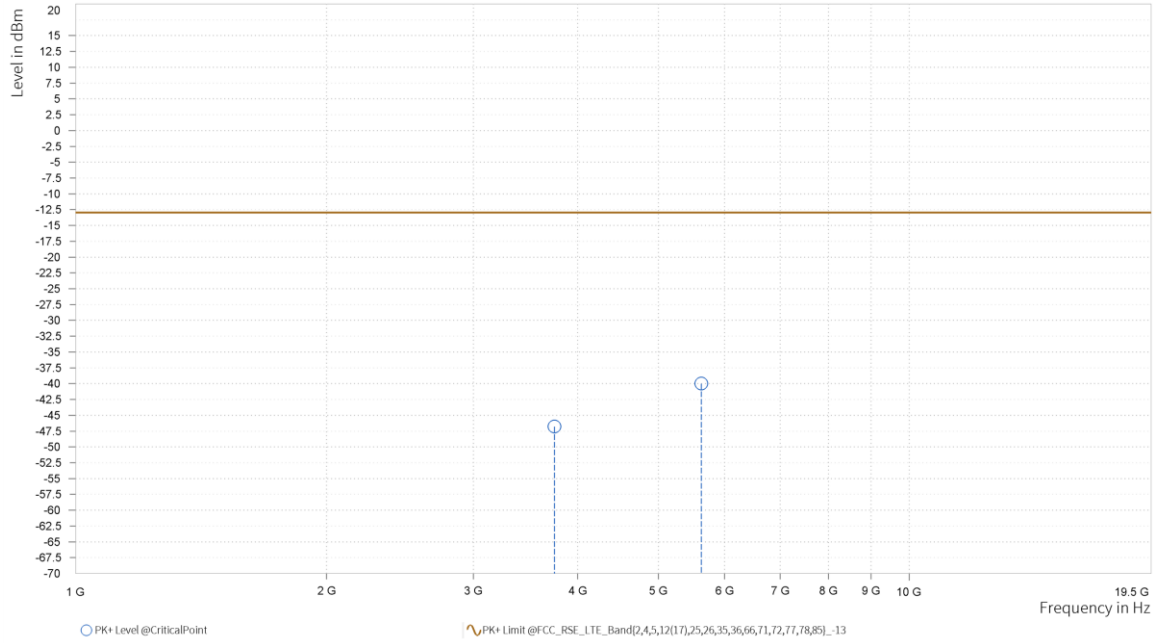
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,751.500	-47.20	-13.00	34.20	27.02	H	359.1	2.00
4	5,627.000	-40.89	-13.00	27.89	35.77	H	1	2.00



CHANNEL BANDWIDTH	15MHz / QPSK	**MODE**	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	**ENVIRONMENTAL CONDITIONS**	23deg. C, 70%RH
INPUT POWER	DC 5V	**TESTED BY**	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

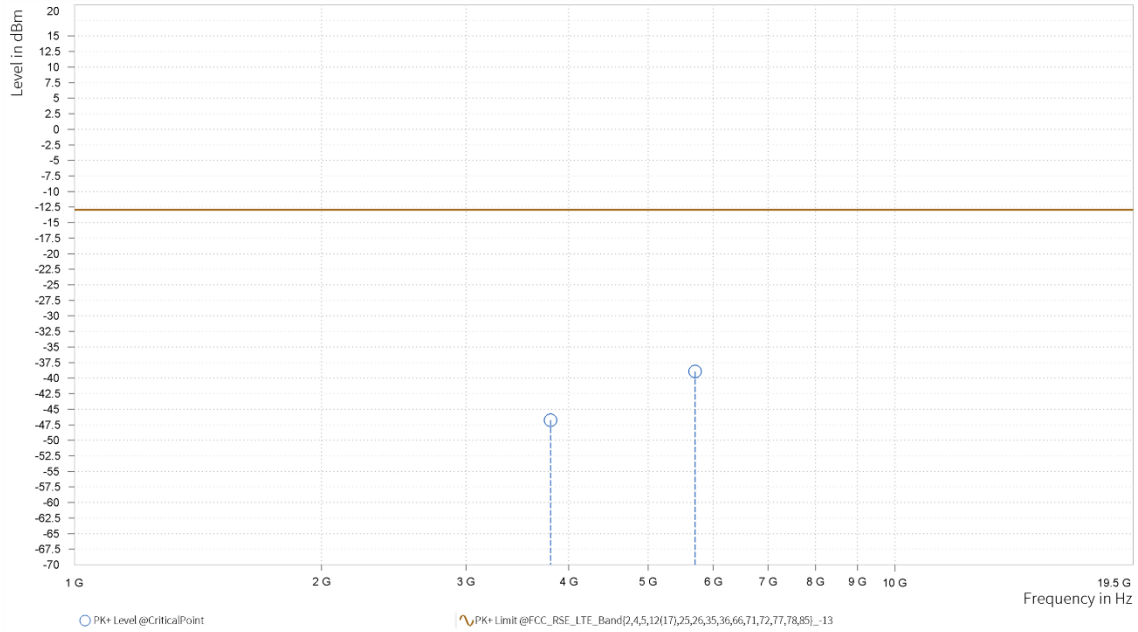
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,751.000	-46.79	-13.00	33.79	26.66	V	1	2.00
4	5,627.000	-39.99	-13.00	26.99	35.51	V	359.1	2.00



CH26615

CHANNEL BANDWIDTH	15MHz / QPSK	**MODE**	TX channel 26615
FREQUENCY RANGE	Above 1000MHz	**ENVIRONMENTAL CONDITIONS**	23deg. C, 70%RH
INPUT POWER	DC 5V	**TESTED BY**	Hanwen Xu
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

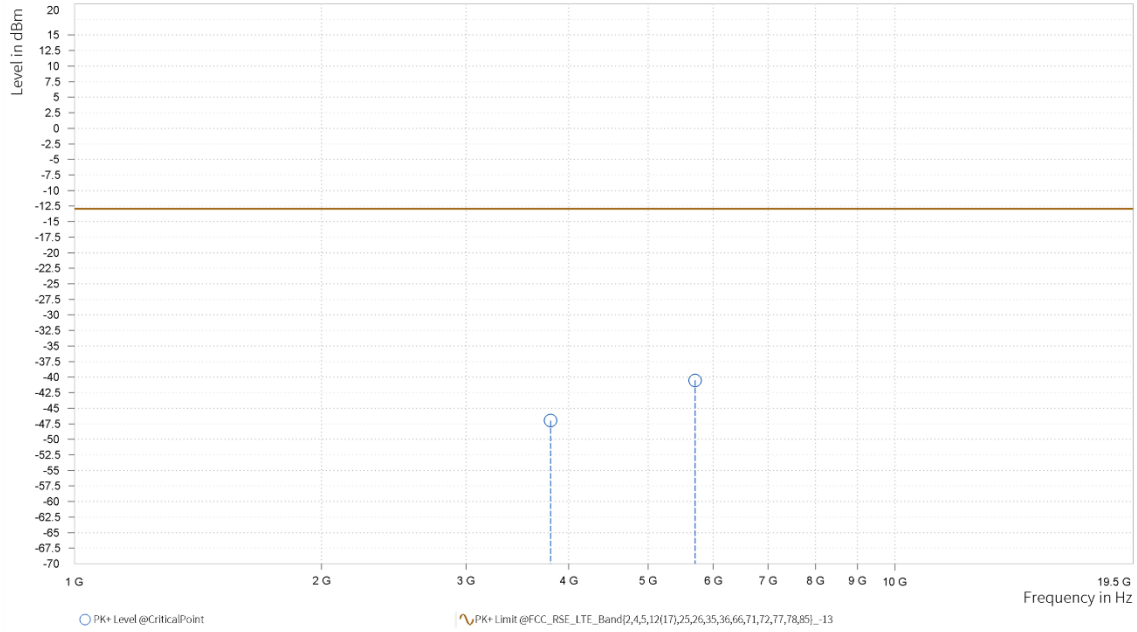
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,801.000	-46.77	-13.00	33.77	27.47	H	243.4	2.00
4	5,702.000	-38.94	-13.00	25.94	35.72	H	243.4	2.00



CHANNEL BANDWIDTH	15MHz / QPSK	MODE	TX channel 26615
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	DC 5V	TESTED BY	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

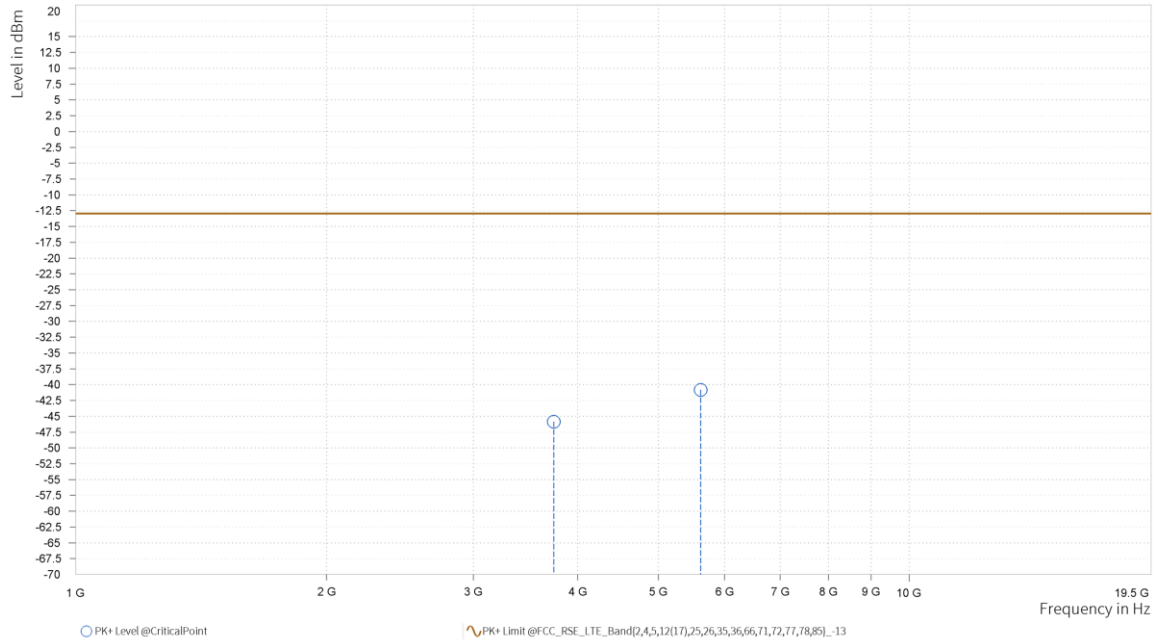
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,801.000	-46.99	-13.00	33.99	27.17	V	1	2.00
4	5,702.000	-40.51	-13.00	27.51	35.46	V	1	2.00



CHANNEL BANDWIDTH	20MHz / QPSK	**MODE**	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	**ENVIRONMENTAL CONDITIONS**	23deg. C, 70%RH
INPUT POWER	DC 5V	**TESTED BY**	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

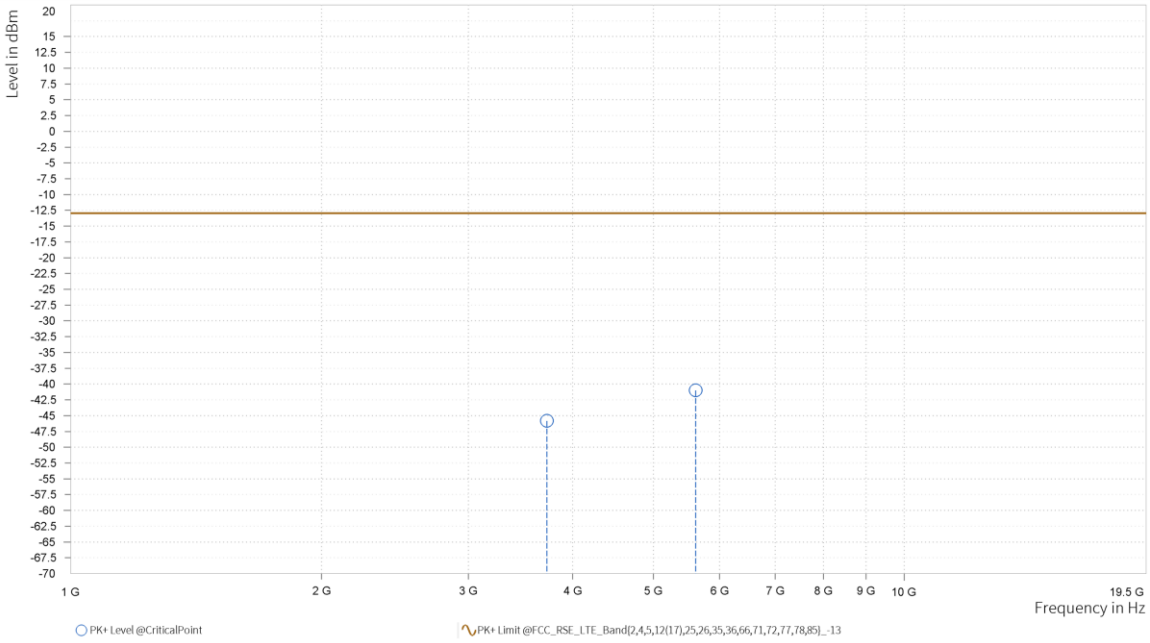
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,746.000	-45.85	-13.00	32.85	27.11	H	359	2.00
4	5,620.000	-40.84	-13.00	27.84	34.91	H	1	2.00



CHANNEL BANDWIDTH	20MHz / QPSK	**MODE**	TX channel 26365
FREQUENCY RANGE	Above 1000MHz	**ENVIRONMENTAL CONDITIONS**	23deg. C, 70%RH
INPUT POWER	DC 5V	**TESTED BY**	Hanwen Xu

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
4	3,727.000	-45.83	-13.00	32.83	27.83	V	251.8	2.00
4	5,620.000	-40.99	-13.00	27.99	34.65	V	1	2.00

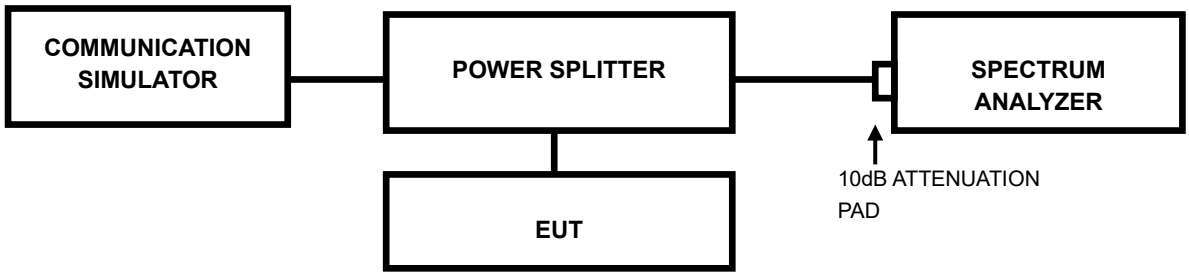


3.7 PEAK TO AVERAGE RATIO

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 ≥ 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 Appendix of this test report.

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, China
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

LTE BAND25 (INCLUDING B2)

PEAK-TO-AVERAGE RATIO(CCDF)

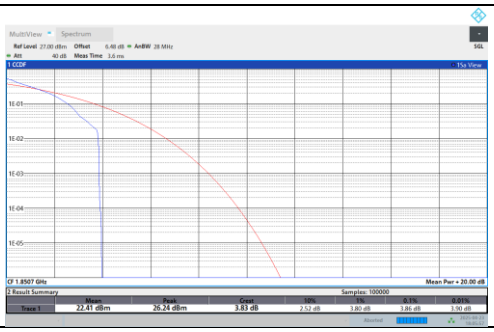
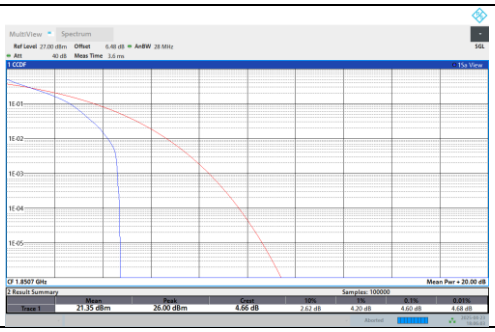
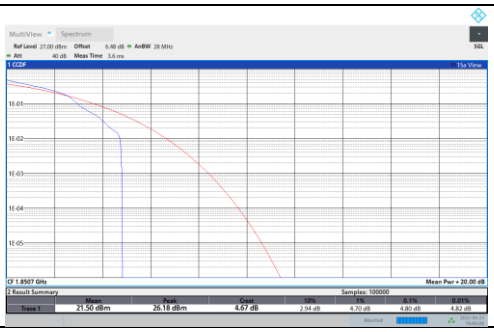
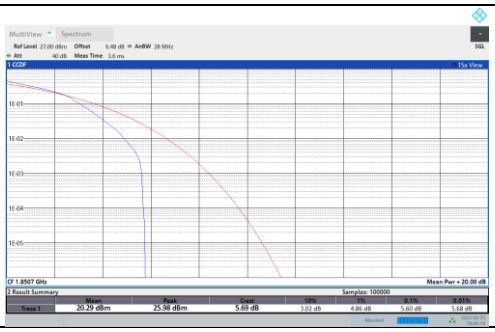
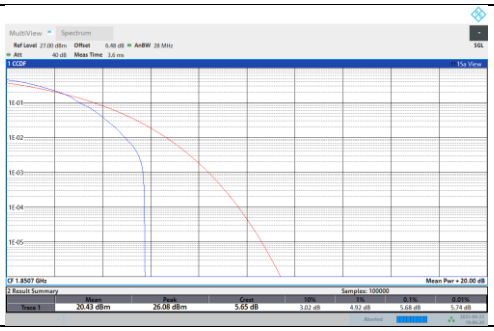
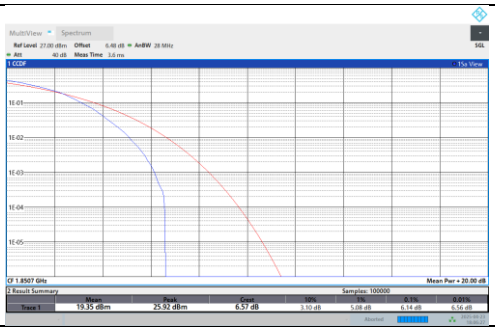
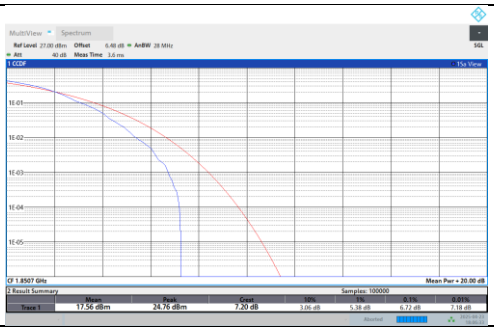
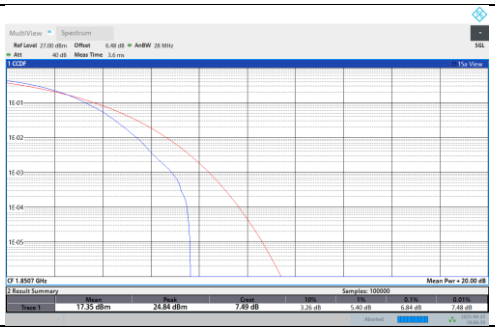
Test Result

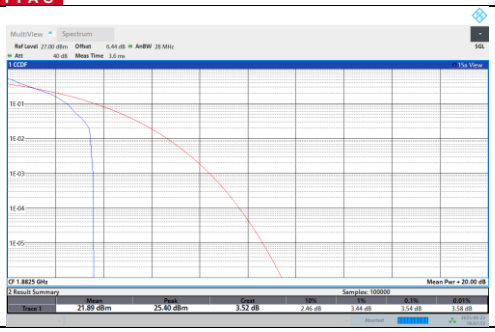
Bandwidth	Modulation	Frequency (MHz)	RB Configuration	Result (dB)	Limit (dB)	Verdict
1.4MHz	QPSK	1850.7	1 RB low	3.86	13	PASS
1.4MHz	QPSK	1850.7	100% RB	4.6	13	PASS
1.4MHz	16QAM	1850.7	1 RB low	4.8	13	PASS
1.4MHz	16QAM	1850.7	100% RB	5.6	13	PASS
1.4MHz	64QAM	1850.7	1 RB low	5.68	13	PASS
1.4MHz	64QAM	1850.7	100% RB	6.14	13	PASS
1.4MHz	256QAM	1850.7	1 RB low	6.72	13	PASS
1.4MHz	256QAM	1850.7	100% RB	6.84	13	PASS
1.4MHz	QPSK	1882.5	1 RB low	3.54	13	PASS
1.4MHz	QPSK	1882.5	100% RB	4.3	13	PASS
1.4MHz	16QAM	1882.5	1 RB low	4.4	13	PASS
1.4MHz	16QAM	1882.5	100% RB	5.3	13	PASS
1.4MHz	64QAM	1882.5	1 RB low	5.28	13	PASS
1.4MHz	64QAM	1882.5	100% RB	6	13	PASS
1.4MHz	256QAM	1882.5	1 RB low	6.78	13	PASS
1.4MHz	256QAM	1882.5	100% RB	6.56	13	PASS
1.4MHz	QPSK	1914.3	1 RB low	3.94	13	PASS
1.4MHz	QPSK	1914.3	100% RB	4.76	13	PASS
1.4MHz	16QAM	1914.3	1 RB low	4.88	13	PASS
1.4MHz	16QAM	1914.3	100% RB	5.74	13	PASS
1.4MHz	64QAM	1914.3	1 RB low	5.7	13	PASS
1.4MHz	64QAM	1914.3	100% RB	6.54	13	PASS
1.4MHz	256QAM	1914.3	1 RB low	6.02	13	PASS
1.4MHz	256QAM	1914.3	100% RB	6.7	13	PASS
3MHz	QPSK	1851.5	1 RB low	3.84	13	PASS
3MHz	QPSK	1851.5	100% RB	4.66	13	PASS
3MHz	16QAM	1851.5	1 RB low	4.7	13	PASS
3MHz	16QAM	1851.5	100% RB	5.62	13	PASS
3MHz	64QAM	1851.5	1 RB low	5.52	13	PASS
3MHz	64QAM	1851.5	100% RB	6.26	13	PASS
3MHz	256QAM	1851.5	1 RB low	6.88	13	PASS
3MHz	256QAM	1851.5	100% RB	6.7	13	PASS
3MHz	QPSK	1882.5	1 RB low	3.56	13	PASS
3MHz	QPSK	1882.5	100% RB	4.3	13	PASS
3MHz	16QAM	1882.5	1 RB low	4.42	13	PASS
3MHz	16QAM	1882.5	100% RB	5.3	13	PASS
3MHz	64QAM	1882.5	1 RB low	5.54	13	PASS
3MHz	64QAM	1882.5	100% RB	5.94	13	PASS
3MHz	256QAM	1882.5	1 RB low	6.92	13	PASS
3MHz	256QAM	1882.5	100% RB	6.6	13	PASS
3MHz	QPSK	1913.5	1 RB low	3.96	13	PASS

3MHz	QPSK	1913.5	100% RB	4.86	13	PASS
3MHz	16QAM	1913.5	1 RB low	5.06	13	PASS
3MHz	16QAM	1913.5	100% RB	5.72	13	PASS
3MHz	64QAM	1913.5	1 RB low	5.84	13	PASS
3MHz	64QAM	1913.5	100% RB	6.32	13	PASS
3MHz	256QAM	1913.5	1 RB low	6.7	13	PASS
3MHz	256QAM	1913.5	100% RB	6.76	13	PASS
5MHz	QPSK	1852.5	1 RB low	3.96	13	PASS
5MHz	QPSK	1852.5	100% RB	4.68	13	PASS
5MHz	16QAM	1852.5	1 RB low	4.7	13	PASS
5MHz	16QAM	1852.5	100% RB	5.6	13	PASS
5MHz	64QAM	1852.5	1 RB low	5.52	13	PASS
5MHz	64QAM	1852.5	100% RB	6.22	13	PASS
5MHz	256QAM	1852.5	1 RB low	6.88	13	PASS
5MHz	256QAM	1852.5	100% RB	6.76	13	PASS
5MHz	QPSK	1882.5	1 RB low	3.48	13	PASS
5MHz	QPSK	1882.5	100% RB	4.34	13	PASS
5MHz	16QAM	1882.5	1 RB low	4.42	13	PASS
5MHz	16QAM	1882.5	100% RB	5.3	13	PASS
5MHz	64QAM	1882.5	1 RB low	5.42	13	PASS
5MHz	64QAM	1882.5	100% RB	5.92	13	PASS
5MHz	256QAM	1882.5	1 RB low	7	13	PASS
5MHz	256QAM	1882.5	100% RB	6.54	13	PASS
5MHz	QPSK	1912.5	1 RB low	3.76	13	PASS
5MHz	QPSK	1912.5	100% RB	4.82	13	PASS
5MHz	16QAM	1912.5	1 RB low	4.68	13	PASS
5MHz	16QAM	1912.5	100% RB	5.72	13	PASS
5MHz	64QAM	1912.5	1 RB low	5.54	13	PASS
5MHz	64QAM	1912.5	100% RB	6.38	13	PASS
5MHz	256QAM	1912.5	1 RB low	6.56	13	PASS
5MHz	256QAM	1912.5	100% RB	6.76	13	PASS
10MHz	QPSK	1855	1 RB low	3.86	13	PASS
10MHz	QPSK	1855	100% RB	4.68	13	PASS
10MHz	16QAM	1855	1 RB low	4.76	13	PASS
10MHz	16QAM	1855	100% RB	5.68	13	PASS
10MHz	64QAM	1855	1 RB low	5.62	13	PASS
10MHz	64QAM	1855	100% RB	6.28	13	PASS
10MHz	256QAM	1855	1 RB low	6.98	13	PASS
10MHz	256QAM	1855	100% RB	6.8	13	PASS
10MHz	QPSK	1882.5	1 RB low	3.76	13	PASS
10MHz	QPSK	1882.5	100% RB	4.44	13	PASS
10MHz	16QAM	1882.5	1 RB low	4.5	13	PASS
10MHz	16QAM	1882.5	100% RB	5.32	13	PASS
10MHz	64QAM	1882.5	1 RB low	5.44	13	PASS
10MHz	64QAM	1882.5	100% RB	5.96	13	PASS
10MHz	256QAM	1882.5	1 RB low	7.06	13	PASS
10MHz	256QAM	1882.5	100% RB	6.66	13	PASS
10MHz	QPSK	1910	1 RB low	3.68	13	PASS
10MHz	QPSK	1910	100% RB	4.82	13	PASS
10MHz	16QAM	1910	1 RB low	4.6	13	PASS
10MHz	16QAM	1910	100% RB	5.58	13	PASS
10MHz	64QAM	1910	1 RB low	5.36	13	PASS
10MHz	64QAM	1910	100% RB	6.08	13	PASS
10MHz	256QAM	1910	1 RB low	6.18	13	PASS

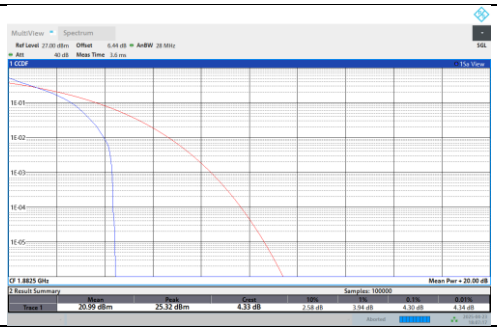
10MHz	256QAM	1910	100% RB	6.68	13	PASS
15MHz	QPSK	1857.5	1 RB low	3.86	13	PASS
15MHz	QPSK	1857.5	100% RB	4.94	13	PASS
15MHz	16QAM	1857.5	1 RB low	4.6	13	PASS
15MHz	16QAM	1857.5	100% RB	5.82	13	PASS
15MHz	64QAM	1857.5	1 RB low	5.6	13	PASS
15MHz	64QAM	1857.5	100% RB	6.28	13	PASS
15MHz	256QAM	1857.5	1 RB low	6.22	13	PASS
15MHz	256QAM	1857.5	100% RB	6.78	13	PASS
15MHz	QPSK	1882.5	1 RB low	3.8	13	PASS
15MHz	QPSK	1882.5	100% RB	4.7	13	PASS
15MHz	16QAM	1882.5	1 RB low	4.78	13	PASS
15MHz	16QAM	1882.5	100% RB	5.58	13	PASS
15MHz	64QAM	1882.5	1 RB low	5.54	13	PASS
15MHz	64QAM	1882.5	100% RB	6.16	13	PASS
15MHz	256QAM	1882.5	1 RB low	6.96	13	PASS
15MHz	256QAM	1882.5	100% RB	6.7	13	PASS
15MHz	QPSK	1907.5	1 RB low	4.14	13	PASS
15MHz	QPSK	1907.5	100% RB	5.04	13	PASS
15MHz	16QAM	1907.5	1 RB low	5	13	PASS
15MHz	16QAM	1907.5	100% RB	5.8	13	PASS
15MHz	64QAM	1907.5	1 RB low	5.9	13	PASS
15MHz	64QAM	1907.5	100% RB	6.18	13	PASS
15MHz	256QAM	1907.5	1 RB low	6.98	13	PASS
15MHz	256QAM	1907.5	100% RB	6.68	13	PASS
20MHz	QPSK	1860	1 RB low	3.86	13	PASS
20MHz	QPSK	1860	100% RB	5.1	13	PASS
20MHz	16QAM	1860	1 RB low	4.7	13	PASS
20MHz	16QAM	1860	100% RB	5.94	13	PASS
20MHz	64QAM	1860	1 RB low	5.68	13	PASS
20MHz	64QAM	1860	100% RB	6.32	13	PASS
20MHz	256QAM	1860	1 RB low	6.4	13	PASS
20MHz	256QAM	1860	100% RB	6.74	13	PASS
20MHz	QPSK	1882.5	1 RB low	3.86	13	PASS
20MHz	QPSK	1882.5	100% RB	4.86	13	PASS
20MHz	16QAM	1882.5	1 RB low	4.78	13	PASS
20MHz	16QAM	1882.5	100% RB	5.7	13	PASS
20MHz	64QAM	1882.5	1 RB low	5.66	13	PASS
20MHz	64QAM	1882.5	100% RB	6.22	13	PASS
20MHz	256QAM	1882.5	1 RB low	7.32	13	PASS
20MHz	256QAM	1882.5	100% RB	6.62	13	PASS
20MHz	QPSK	1905	1 RB low	4.22	13	PASS
20MHz	QPSK	1905	100% RB	5.18	13	PASS
20MHz	16QAM	1905	1 RB low	5.18	13	PASS
20MHz	16QAM	1905	100% RB	5.98	13	PASS
20MHz	64QAM	1905	1 RB low	6	13	PASS
20MHz	64QAM	1905	100% RB	6.42	13	PASS
20MHz	256QAM	1905	1 RB low	6.66	13	PASS
20MHz	256QAM	1905	100% RB	6.8	13	PASS

Test Graphs

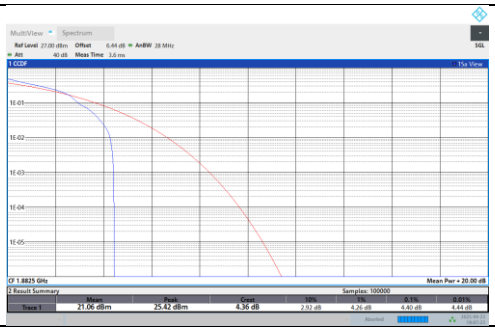
Band 25-1.4M-LOW-1 RB low	Band 25-1.4M-LOW-100% RB
	
Band 25-1.4M-LOW-1 RB low	Band 25-1.4M-LOW-100% RB
	
Band 25-1.4M-LOW-1 RB low	Band 25-1.4M-LOW-100% RB
	
Band 25-1.4M-LOW-1 RB low	Band 25-1.4M-LOW-100% RB
	
Band 25-1.4M-MID-1 RB low	Band 25-1.4M-MID-100% RB



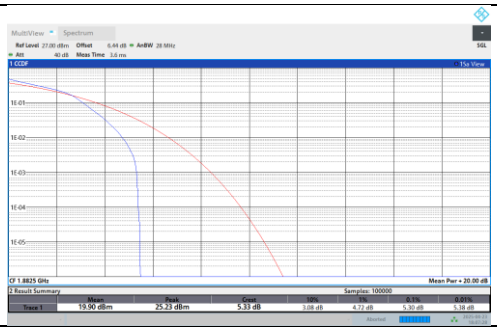
Band 25-1.4M-MID-1 RB low



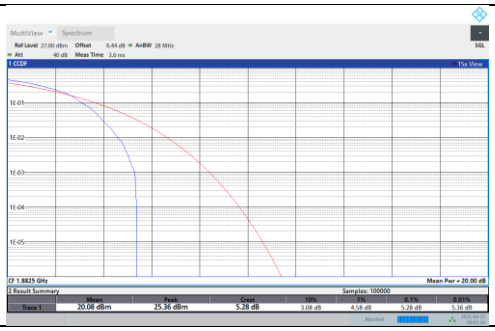
Band 25-1.4M-MID-100% RB



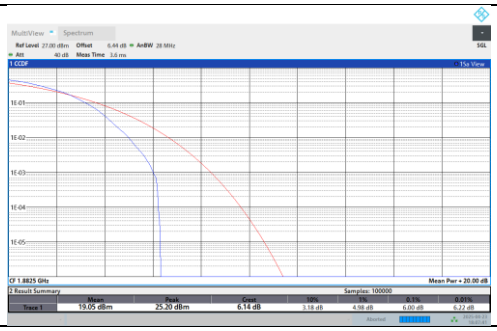
Band 25-1.4M-MID-1 RB low



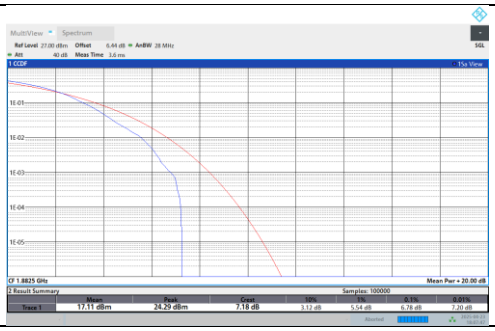
Band 25-1.4M-MID-100% RB



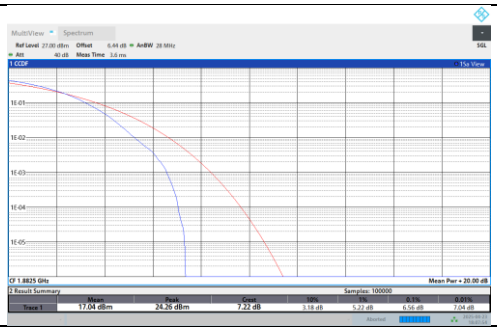
Band 25-1.4M-MID-1 RB low



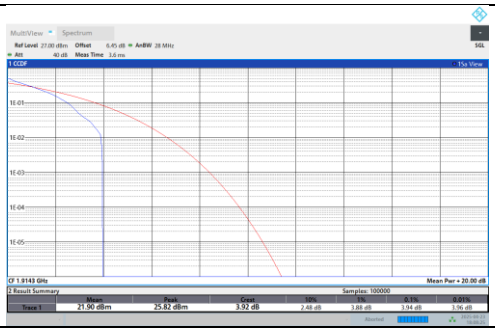
Band 25-1.4M-MID-100% RB



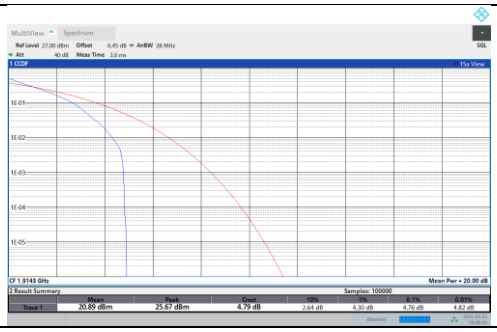
Band 25-1.4M-HIGH-1 RB low



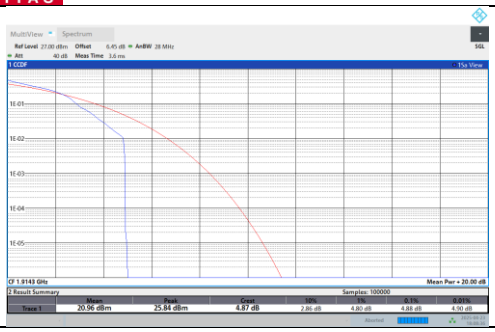
Band 25-1.4M-HIGH-100% RB



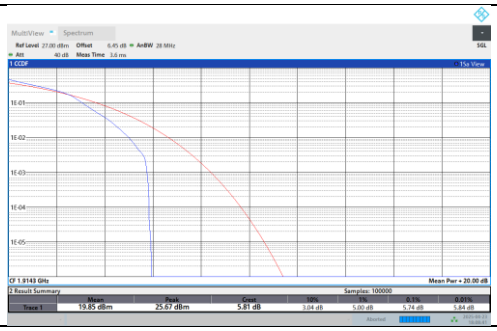
Band 25-1.4M-HIGH-1 RB low



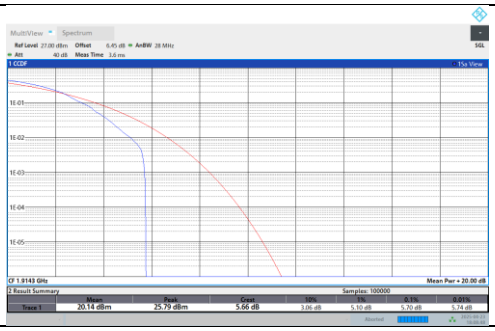
Band 25-1.4M-HIGH-100% RB



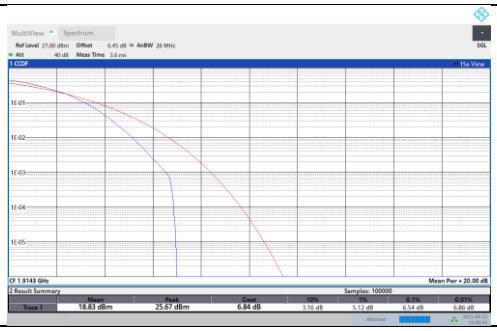
Band 25-1.4M-HIGH-1 RB low



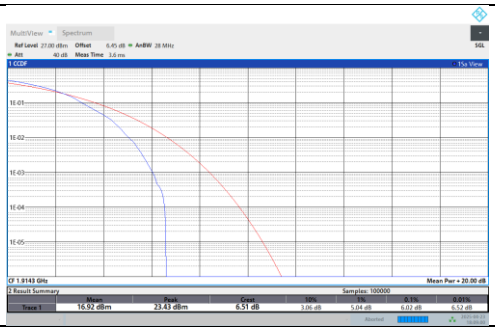
Band 25-1.4M-HIGH-100% RB



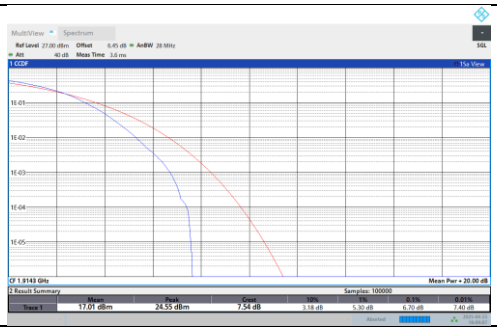
Band 25-1.4M-HIGH-1 RB low



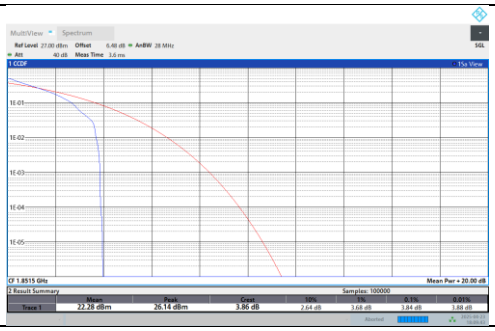
Band 25-1.4M-HIGH-100% RB



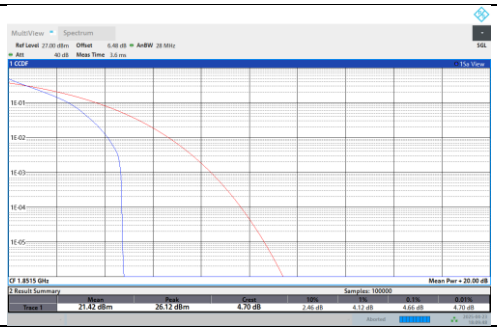
Band 25-3M-LOW-1 RB low



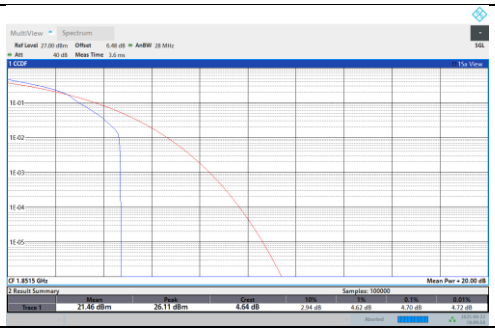
Band 25-3M-LOW-100% RB



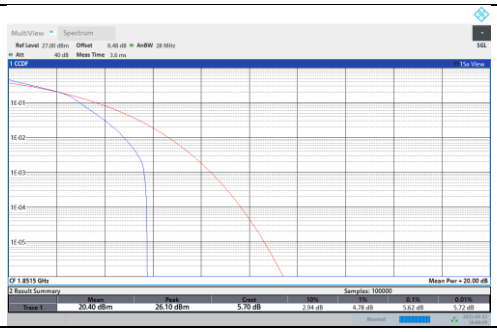
Band 25-3M-LOW-1 RB low



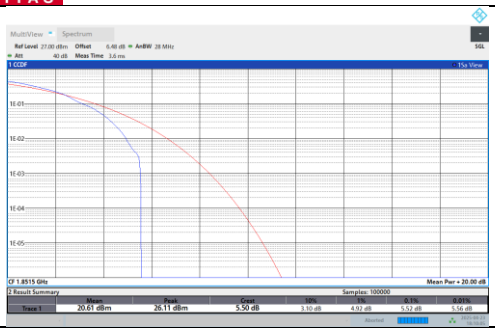
Band 25-3M-LOW-100% RB



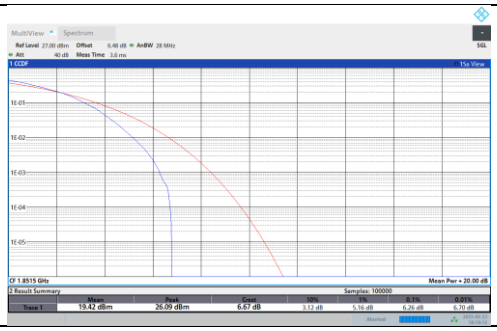
Band 25-3M-LOW-1 RB low



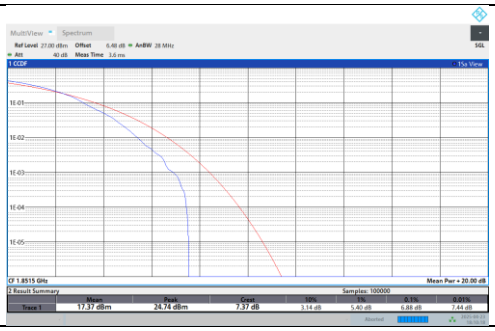
Band 25-3M-LOW-100% RB



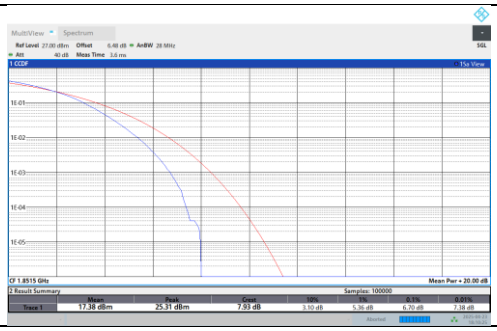
Band 25-3M-LOW-1 RB low



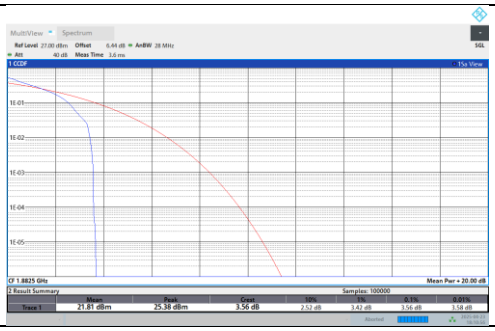
Band 25-3M-LOW-100% RB



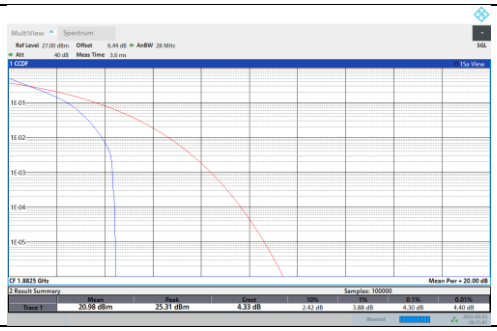
Band 25-3M-MID-1 RB low



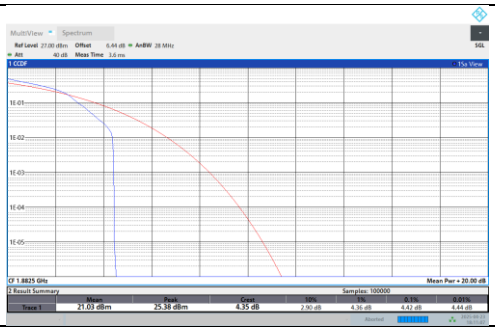
Band 25-3M-MID-100% RB



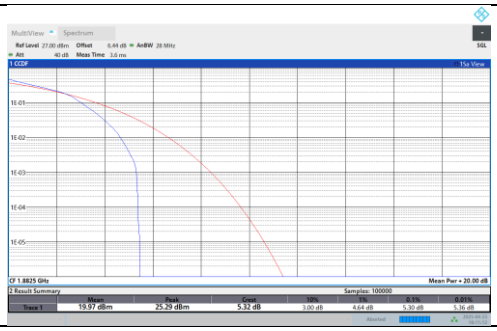
Band 25-3M-MID-1 RB low



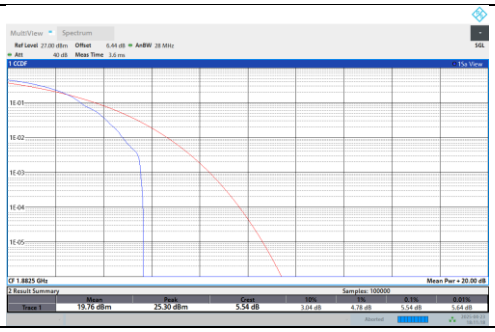
Band 25-3M-MID-100% RB



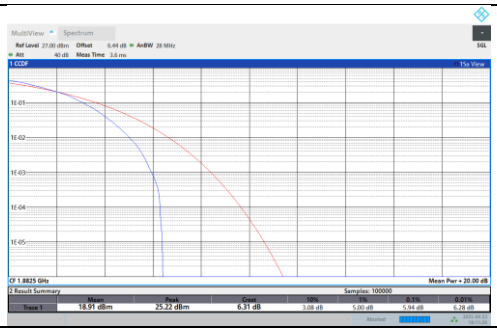
Band 25-3M-MID-1 RB low



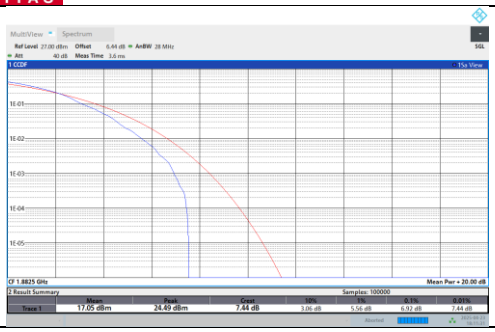
Band 25-3M-MID-100% RB



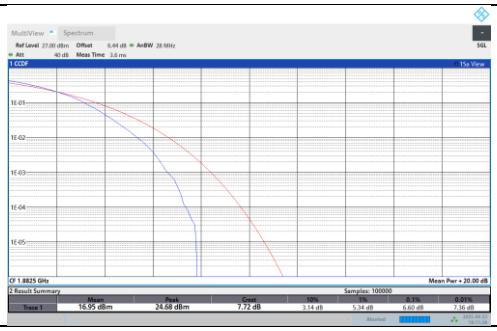
Band 25-3M-MID-1 RB low



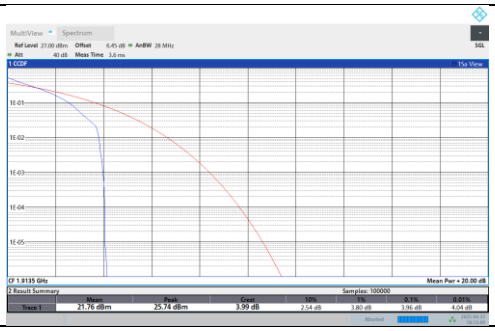
Band 25-3M-MID-100% RB



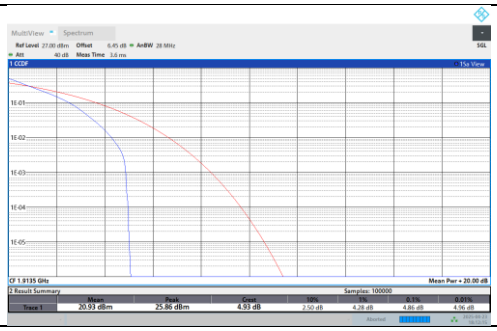
Band 25-3M-HIGH-1 RB low



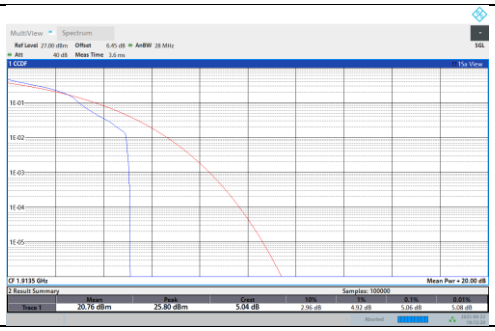
Band 25-3M-HIGH-100% RB



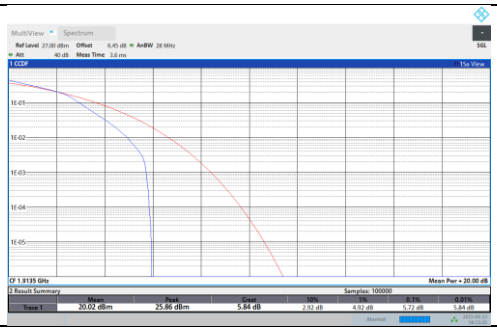
Band 25-3M-HIGH-1 RB low



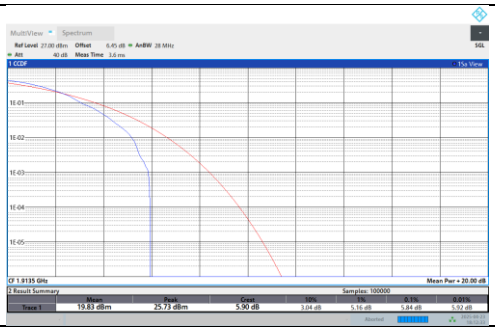
Band 25-3M-HIGH-100% RB



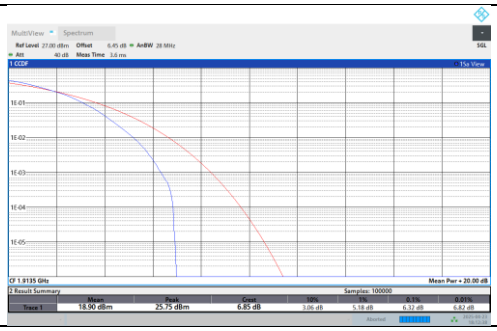
Band 25-3M-HIGH-1 RB low



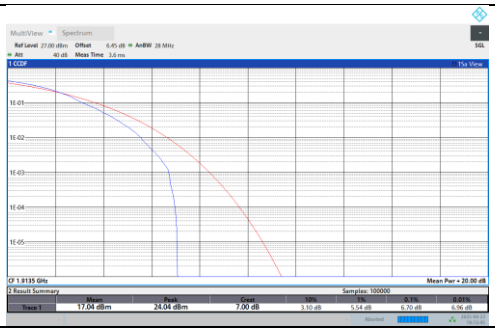
Band 25-3M-HIGH-100% RB



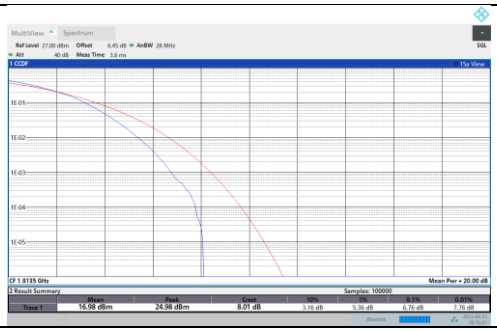
Band 25-3M-HIGH-1 RB low



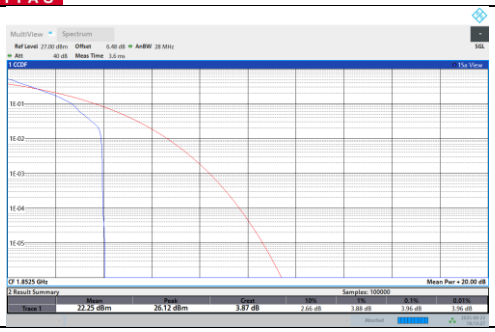
Band 25-3M-HIGH-100% RB



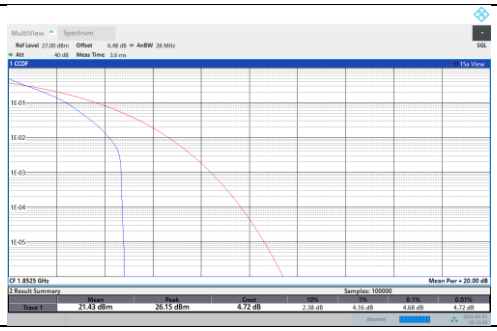
Band 25-5M-LOW-1 RB low



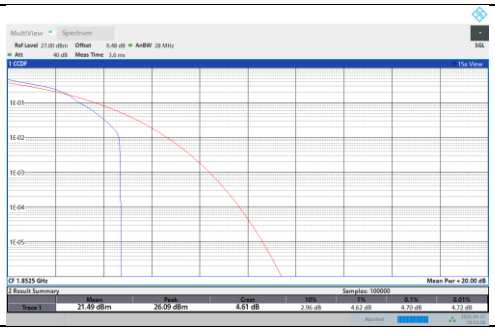
Band 25-5M-LOW-100% RB



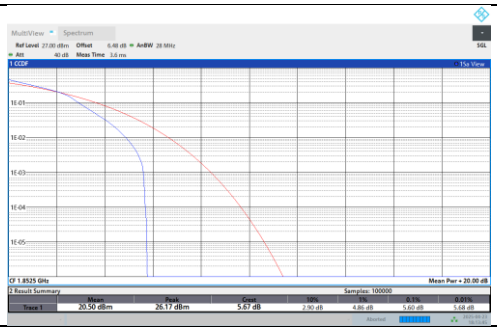
Band 25-5M-LOW-1 RB low



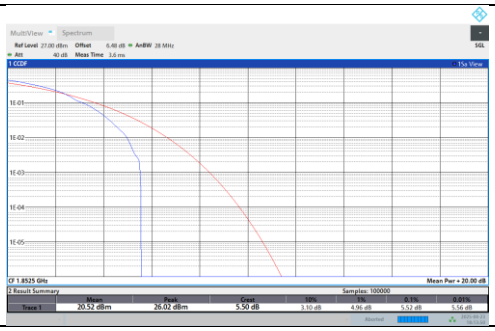
Band 25-5M-LOW-100% RB



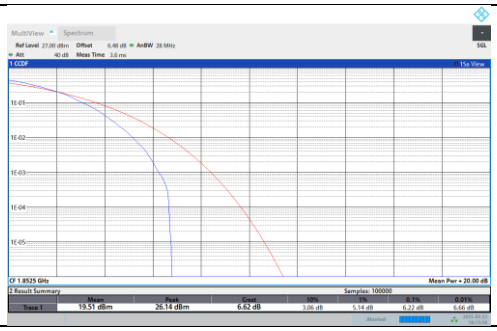
Band 25-5M-LOW-1 RB low



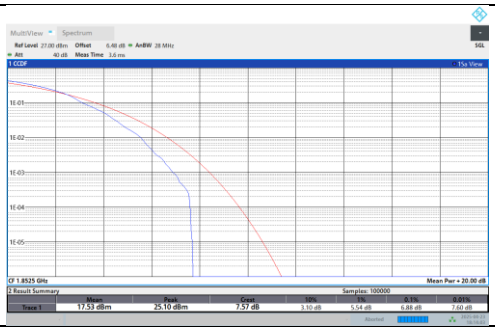
Band 25-5M-LOW-100% RB



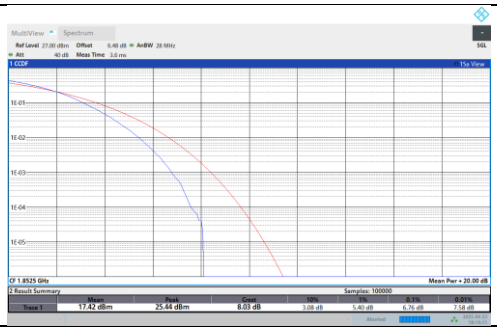
Band 25-5M-LOW-1 RB low



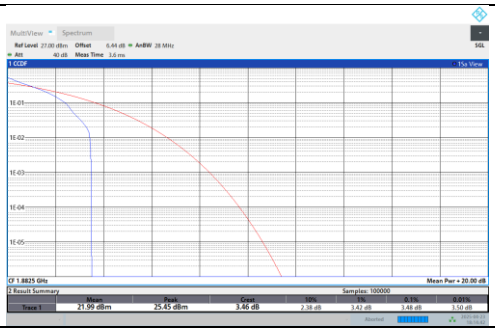
Band 25-5M-LOW-100% RB



Band 25-5M-MID-1 RB low



Band 25-5M-MID-100% RB



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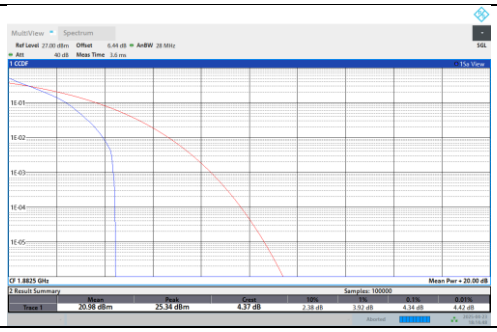
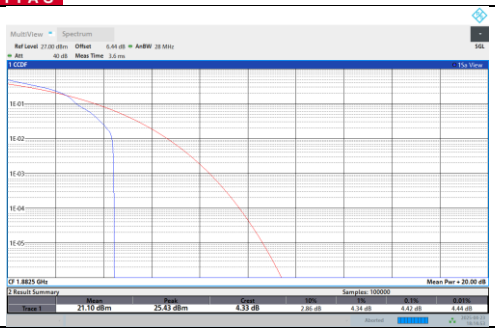
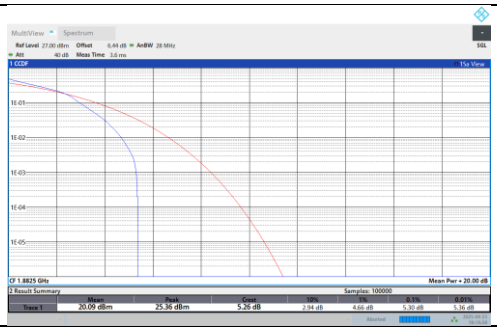


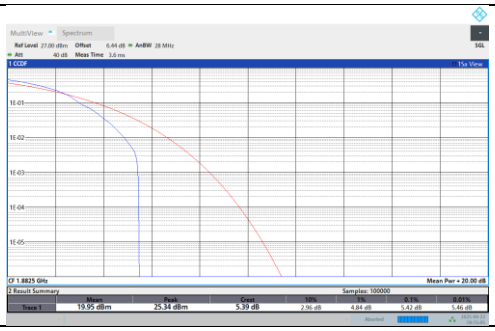
Band 25-5M-MID-100% RB



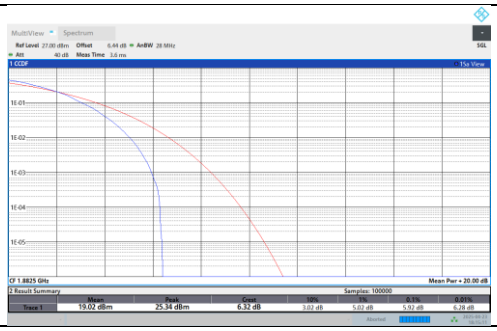
Band 25-5M-MID-1 RB low



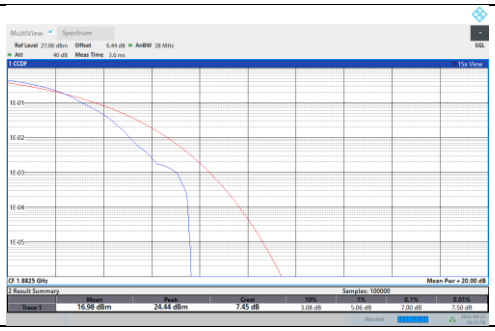
Band 25-5M-MID-100% RB



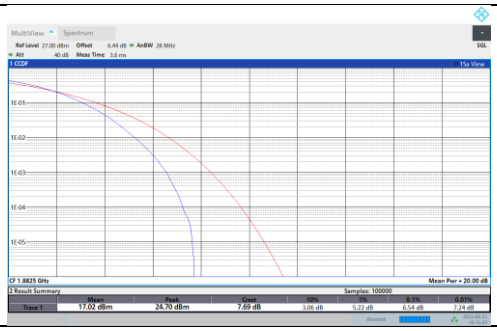
Band 25-5M-MID-1 RB low



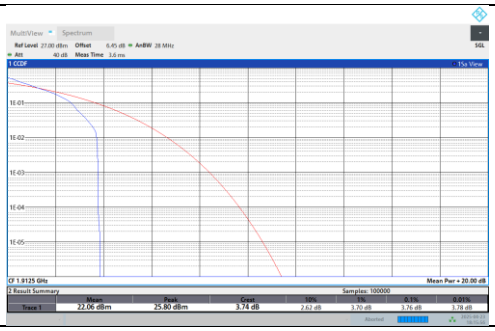
Band 25-5M-MID-100% RB



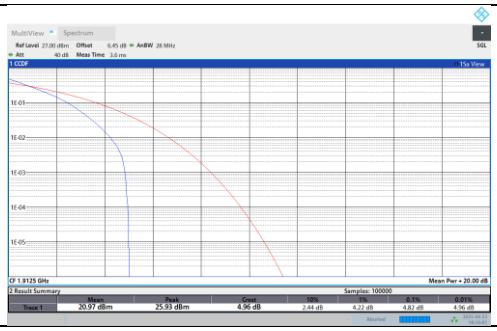
Band 25-5M-HIGH-1 RB low



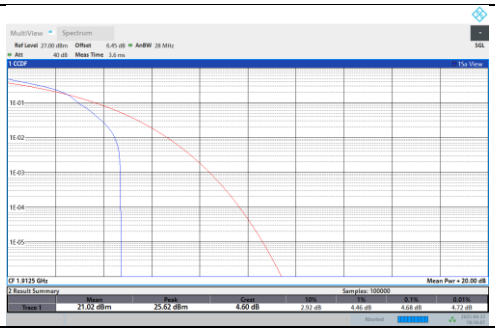
Band 25-5M-HIGH-100% RB



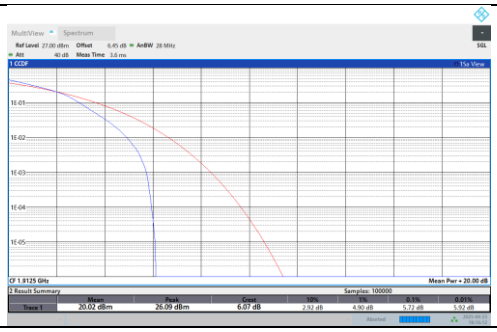
Band 25-5M-HIGH-1 RB low



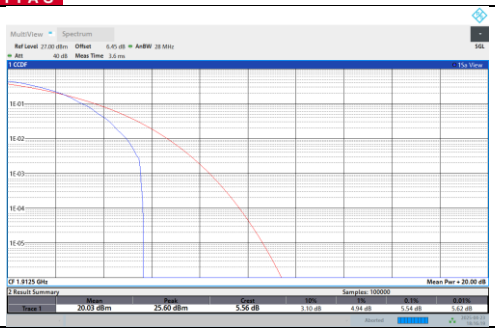
Band 25-5M-HIGH-100% RB



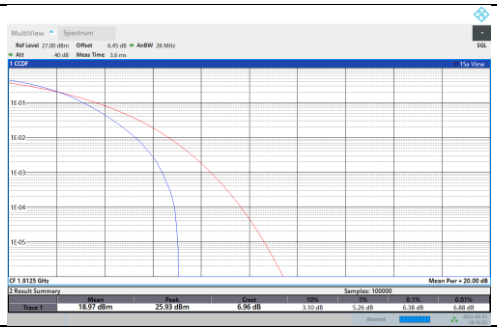
Band 25-5M-HIGH-1 RB low



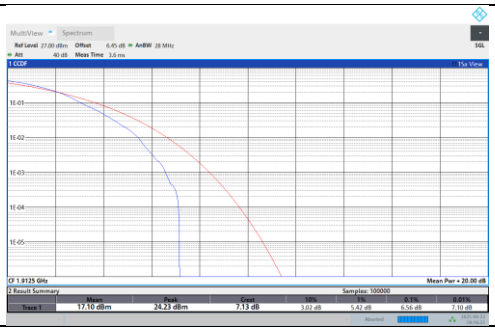
Band 25-5M-HIGH-100% RB



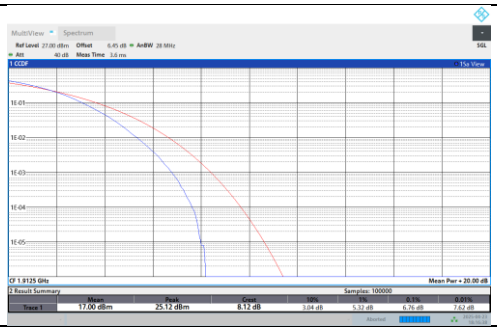
Band 25-5M-HIGH-1 RB low



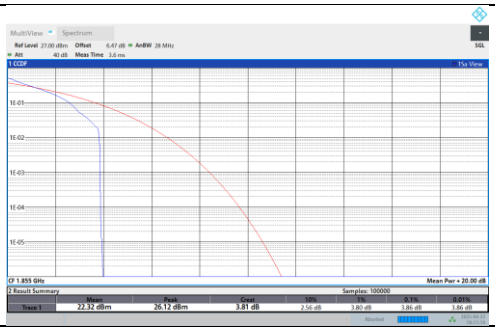
Band 25-5M-HIGH-100% RB



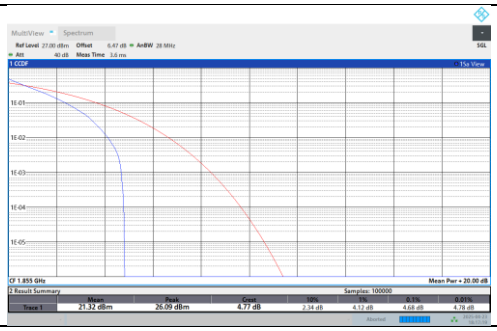
Band 25-10M-LOW-1 RB low



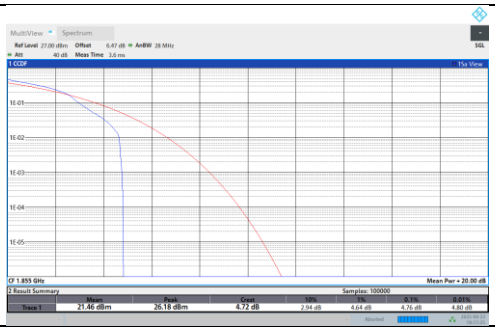
Band 25-10M-LOW-100% RB



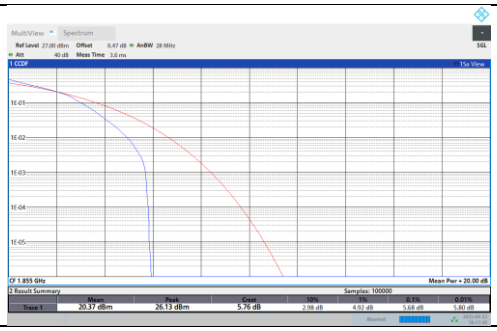
Band 25-10M-LOW-1 RB low



Band 25-10M-LOW-100% RB



Band 25-10M-LOW-1 RB low



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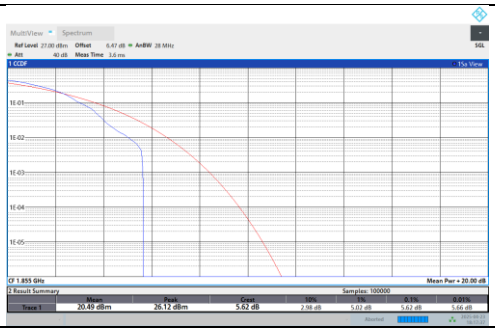
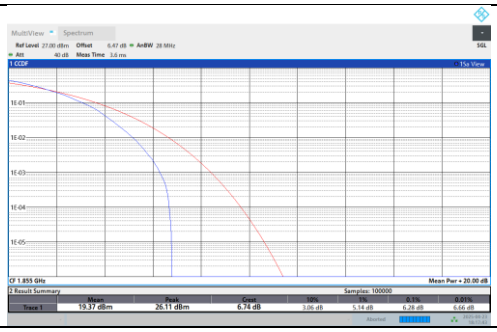


Band 25-10M-LOW-1 RB low



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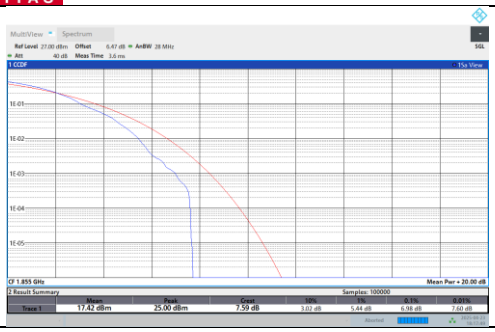
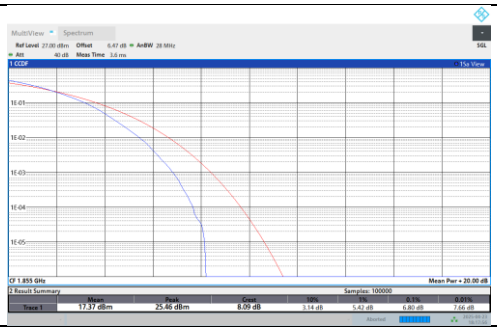


Band 25-10M-MID-1 RB low



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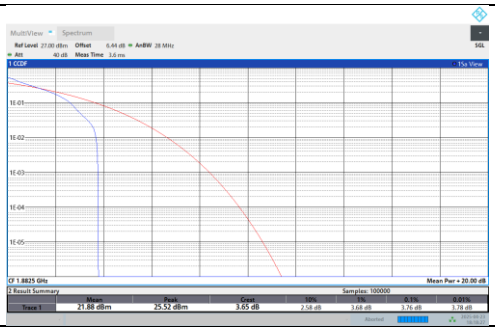
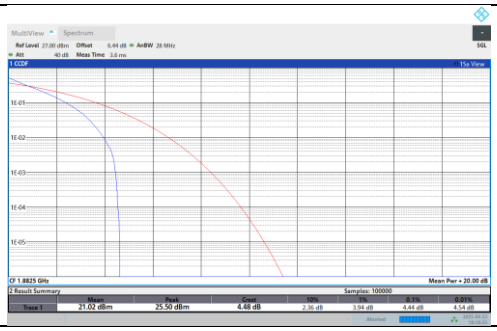
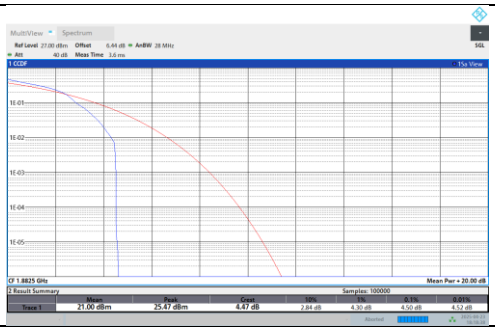


Band 25-10M-MID-1 RB low



Band 25-10M-MID-100% RB



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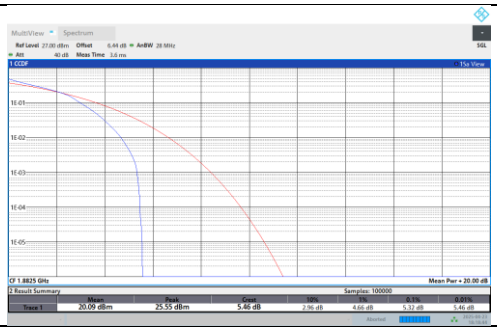
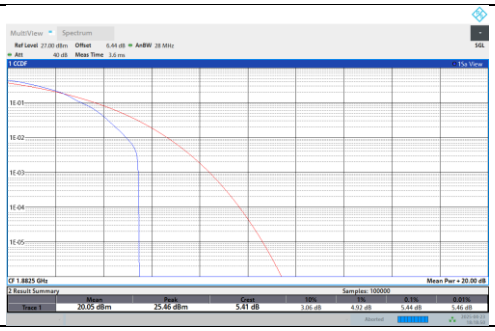
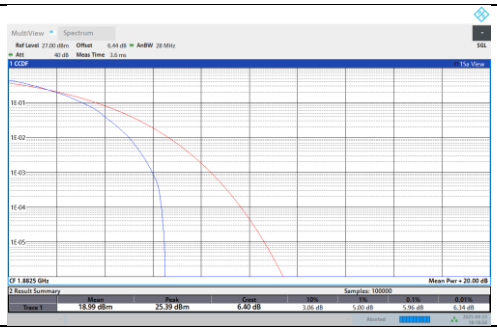


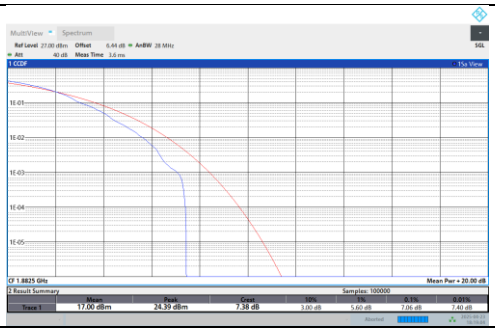
Band 25-10M-MID-100% RB



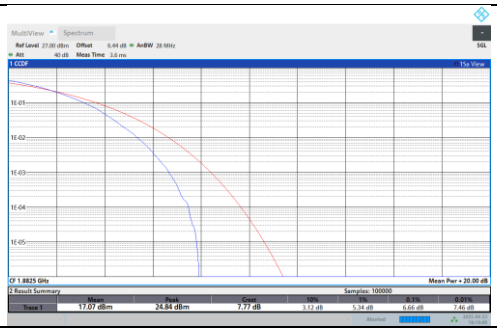
Band 25-10M-MID-1 RB low



Band 25-10M-MID-100% RB



Band 25-10M-HIGH-1 RB low



Band 25-10M-HIGH-100% RB