

FCC TEST REPORT

(PART 22)

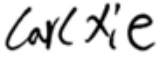
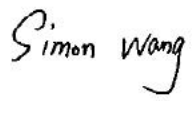
Applicant:	Telit Communications S.p.A
Address:	Via Stazione di Prosecco, 5/B Sgonico,34010 Italy

Manufacturer or Supplier:	Telit Communications S.p.A
Address:	Via Stazione di Prosecco, 5/B Sgonico,34010 Italy
Product:	LTE Cat 1 bis module
Brand Name:	Telit Cinterion or 
Model Name:	LE310X1-WW
FCC ID	RI7LE310X1WW
Date of tests	Jun. 02, 2026 ~ Jul. 17, 2026

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

- ☒ **FCC PART 22, Subpart H**
- ☒ **FCC Part 2**
- ☒ **ANSI C63.26-2015**

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

Prepared by Carl Xie Engineer / Mobile Department	Approved by Simon Wang Manager / Mobile Department
	
Date: Jul. 17, 2026	Date: Jul. 17, 2026

Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



Test Report No.: RF260714B001

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	11
2.3 DESCRIPTION OF SUPPORT UNITS	12
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	20
3.2 FREQUENCY STABILITY MEASUREMENT	28
3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT	28
3.2.2 TEST PROCEDURE	28
3.2.3 TEST SETUP	28
3.2.4 TEST RESULTS	28
3.3 OCCUPIED BANDWIDTH MEASUREMENT	29
3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT	29
3.3.2 TEST SETUP	29
3.3.3 TEST PROCEDURES	29
3.3.4 TEST RESULTS	29
3.4 BAND EDGE MEASUREMENT	30
3.4.1 LIMITS OF BAND EDGE MEASUREMENT	30
3.4.2 TEST SETUP	30
3.4.3 TEST PROCEDURES	31
3.4.4 TEST RESULTS	31
3.5 CONDUCTED SPURIOUS EMISSIONS.....	32
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT	32
3.5.2 TEST PROCEDURE	32
3.5.3 TEST SETUP	32
3.5.4 TEST RESULTS	32
3.6 RADIATED EMISSION MEASUREMENT	33
3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT	33
3.6.2 TEST PROCEDURES	33
3.6.3 DEVIATION FROM TEST STANDARD	33
3.6.4 TEST SETUP	34
3.6.5 TEST RESULTS	36
3.7 PEAK TO AVERAGE RATIO	52
3.7.1 LIMITS OF PEAK TO AVERAGE RATIO MEASUREMENT	52
3.7.2 TEST SETUP	52
3.7.3 TEST PROCEDURES	52
3.7.4 TEST RESULTS	52
4 PHOTOGRAPHS OF THE TEST CONFIGURATION	53

BOOMWAVE TEST (SHENZHEN)
CO., LTD.

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Test Report No.: RF260714B001

5	INFORMATION ON THE TESTING LABORATORIES	54
6	MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB	55
7	APPENDIX:	56
	PEAK-TO-AVERAGE RATIO(CCDF)	56
	TEST RESULT	56
	TEST GRAPHS	57
	OCCUPIED BANDWIDTH	62
	TEST RESULT	62
	TEST GRAPHS	63
	26DB BANDWIDTH	75
	TEST RESULT	75
	TEST GRAPHS	76
	BAND EDGE	88
	TEST RESULT	88
	TEST GRAPHS	89
	CONDUCTED SPURIOUS EMISSION	109
	TEST RESULT	109
	TEST GRAPHS	110
	FREQUENCY STABILITY	116
	TEST RESULT	116



Test Report No.: RF260714B001

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF260714B001	Original release	Jul. 17, 2026



Test Report No.: RF260714B001

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 22 & Part 2			
STANDARD SECTION	TEST TYPE	RESULT	Test lab*
§2.1046	Conducted Output Power	Compliance	A
§22.913 (a)(5)	Effective Radiated Power	Compliance	A
§2.1055 §22.355	Frequency Stability	Compliance	A
§2.1049	Occupied Bandwidth	Compliance	A
§22.913 (d)	Peak to average ratio*	Compliance	A
§2.1051 §22.917(a)	Band Edge Measurements	Compliance	A
§2.1051 §22.917(a)	Conducted Spurious Emissions	Compliance	A
§2.1053 §22.917(a)	Radiated Spurious Emissions	Compliance	A

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

*Test Lab Information Reference

Lab A:

BOOMWAVE TEST (SHENZHEN) CO., LTD.

Lab Address:

Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan 4th Road, Chiwan Community, Zhaoshang Street, Nanshan District, Shenzhen, Guangdong, P.R. CHINA

Accredited Test Lab Cert 7607.01

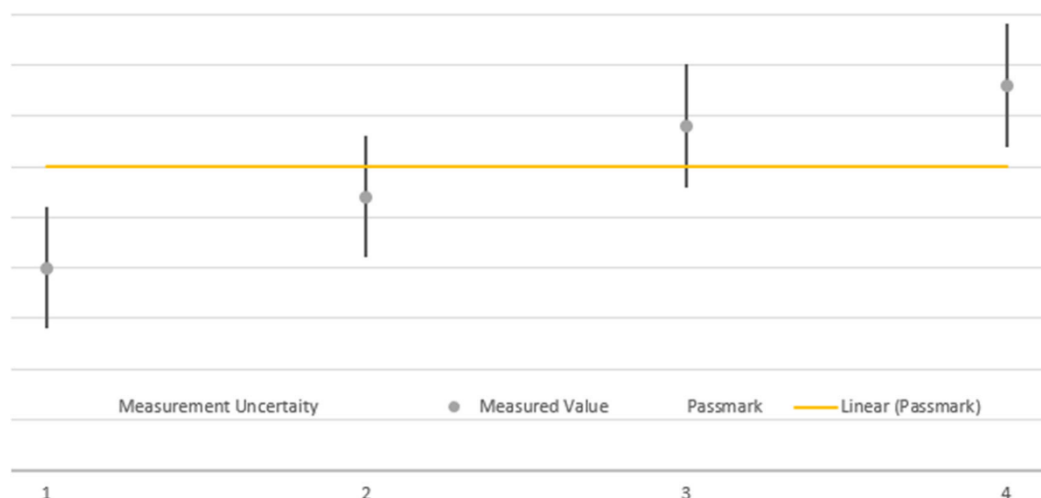
The FCC Site Registration No. is 646781; The Designation No. is CN1429.

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
Maximum Peak Output Power	$\pm 2.06\text{dB}$
Frequency Stability	$\pm 76.97\text{Hz}$
Radiated emissions (9KHz~30MHz)	$\pm 2.68\text{dB}$
Radiated emissions (30MHz~1GHz)	$\pm 4.98\text{dB}$
Radiated emissions (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	$\pm 43.58\text{KHz}$
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.

Test Report No.: RF260714B001

1.2 TEST SITE AND INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	2025/7/3	2027/7/2
BiConiLog Antenna	ETS-LINDGREN	3143B	161965	2025/7/17	2027/7/16
Horn Antenna	SCHWARZBECK	BBHA9120D	3297	2025/9/27	2027/9/26
Horn Antenna	STEATITE	QWH-SL-18-40-K-SG QMS-00361	15433	2025/7/19	2027/7/18
Preamplifier	Tonscend	TPA184045	AP24L8060388	2025/7/3	2027/7/2
MXE EMI Receiver	keysight	N9038B	MY50018017	2025/7/1	2027/6/30
MXG Vector Signal Generator	Keysight	N5183B	MY59100137	2025/6/30	2027/6/29
Preamplifier	Tonscend	TPA001330	806JSAPO40804251015	2025/6/30	2027/6/29
Preamplifier	Tonscend	TPA011845	AP24L8060392	2025/6/30	2027/6/29
Attenuator 6DB	SHX	TS2-6-6-A	230927166	2025/6/30	2027/6/29
Attenuator 6DB	SHX	TS2-6-6-A	230927165	2025/6/30	2027/6/29
Active Receive Loop Antenna	SCHWARZBECK	FMZB 1519 B	00173	2025/6/30	2027/6/29
Temp. & Humi. Recorder	Kejian	HTC-01	157246	2025/7/2	2027/7/1
HIGH pass FILTER 1-18	EWT	EWT-57-0222	EWT-57-0222	2025/6/30	2027/6/29
HIGH pass FILTER 7-18	EWT	EWT-57-0223	EWT-57-0223	2025/6/30	2027/6/29
HIGH pass FILTER 3-18	EWT	EWT-57-0221	EWT-57-0221	2025/6/30	2027/6/29
DC~1GHz Lowpass Filter	EWT	EWT-56-0649	EWT-56-0649	2025/7/3	2027/7/2
Cable 1	N/A	N/A	N/A	2025/9/28	2027/9/27
Cable 2	N/A	N/A	N/A	2025/9/28	2027/9/27
Cable 3	N/A	N/A	N/A	2025/9/28	2027/9/27
Wireless communication integrated tester	Rohde&Schwarz	CMW500	182016	2025/6/30	2027/6/29
EXA Signal Analyzer	KEYSIGHT	N9010B	MY62170156	2025/6/30	2027/6/29
RF Control Unit	Tonscend	JS0806-1	21K8060504	2025/6/16	2027/6/15
DC Power Supply	AGILENT	HMP2020	100598	2025/7/1	2027/6/30
10dB attenuator	JFW INDUSTRIES INC	50HF-010-SMA	50HF-010-SMA-1	2025/6/30	2027/6/29
10dB attenuator	JFW INDUSTRIES INC	50HF-010-SMA	50HF-010-SMA-2	2025/6/30	2027/6/29
hygrothermograph	Anymetrers	----	TH101B	2025/7/22	2027/7/21
Temperature Box	zhongkemeiqi	MA22040172	MQ-DTH50F-2	2025/7/1	2027/6/30
power divider	WOKEN	71688	204-003180-01	2025/6/30	2027/6/29



Test Report No.: RF260714B001

NOTE:

1. The calibration interval of the above test instruments is 24 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 646781; The Designation No. is CN1429.

Test Report No.: RF260714B001

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	LTE Cat 1 bis module	
BRAND NAME	Telit Cinterion or 	
MODEL NAME	LE310X1-WW	
NOMINAL VOLTAGE	3.8V dc	
MODULATION TYPE	LTE Cat 1 bis	QPSK, 16QAM
FREQUENCY RANGE	LTE Band 5 (Channel Bandwidth: 1.4MHz)	824.7MHz ~ 848.3MHz
	LTE Band 5 (Channel Bandwidth: 3MHz)	825.5MHz ~ 847.5MHz
	LTE Band 5 (Channel Bandwidth: 5MHz)	826.5MHz ~ 846.5MHz
	LTE Band 5 (Channel Bandwidth: 10MHz)	829MHz ~ 844MHz
	LTE Band 26 (Channel Bandwidth: 1.4MHz)	824.7MHz ~ 848.3MHz
	LTE Band 26 (Channel Bandwidth: 3MHz)	825.5MHz ~ 847.5MHz
	LTE Band 26 (Channel Bandwidth: 5MHz)	826.5MHz ~ 846.5MHz
	LTE Band 26 (Channel Bandwidth: 10MHz)	829MHz ~ 844MHz
	LTE Band 26 (Channel Bandwidth: 15MHz)	831.5MHz ~ 841.5MHz
	LTE Band 26 (Channel Bandwidth: 15MHz)	831.5MHz ~ 841.5MHz
MAX. ERP POWER	LTE Band 5 (Channel Bandwidth: 1.4MHz)	116.68mW
	LTE Band 5 (Channel Bandwidth: 3MHz)	118.85mW
	LTE Band 5 (Channel Bandwidth: 5MHz)	119.95mW
	LTE Band 5 (Channel Bandwidth: 10MHz)	120.23mW
	LTE Band 26 (Channel Bandwidth: 1.4MHz)	144.54mW
	LTE Band 26 (Channel Bandwidth: 3MHz)	144.54mW
	LTE Band 26 (Channel Bandwidth: 5MHz)	144.21mW
	LTE Band 26 (Channel Bandwidth: 10MHz)	144.21mW
	LTE Band 26 (Channel Bandwidth: 15MHz)	146.22mW
	LTE Band 26 (Channel Bandwidth: 15MHz)	146.22mW
EMISSION DESIGNATOR GOGN	LTE Band 26 (Channel Bandwidth: 1.4MHz)	QPSK: 1M09G7D
	LTE Band 26 (Channel Bandwidth: 1.4MHz)	16QAM: 1M09W7D
	LTE Band 26	QPSK: 2M70G7D

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Test Report No.: RF260714B001

	(Channel Bandwidth: 3MHz)	16QAM: 2M69W7D
	LTE Band 26	QPSK: 4M50G7D
	(Channel Bandwidth: 5MHz)	16QAM: 4M50W7D
	LTE Band 26	QPSK: 8M94G7D
	(Channel Bandwidth: 10MHz)	16QAM: 4M96W7D
	LTE Band 26	QPSK: 13M5G7D
	(Channel Bandwidth: 15MHz)	16QAM: 5M44W7D
ANTENNA GAIN	☒ Provided by client	
	LTE B5	-1dBi
	LTE B26	0dBi
ANTENNA TYPE	Fixed External Antenna	
HW VERSION	0.0	
SW VERSION	M1C.300001	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	N/A	
EXTREME TEMPERATURE	-40°C ~ + 80°C	
EXTREME VOLTAGE	3.2V dc ~ 4.5V dc	

NOTE:

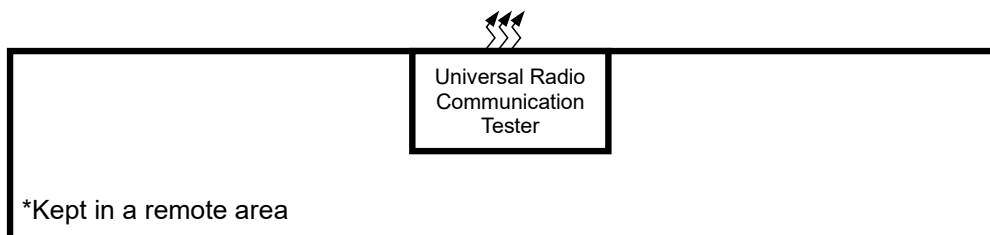
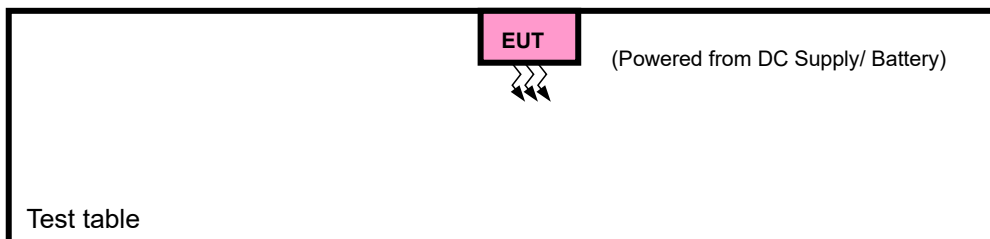
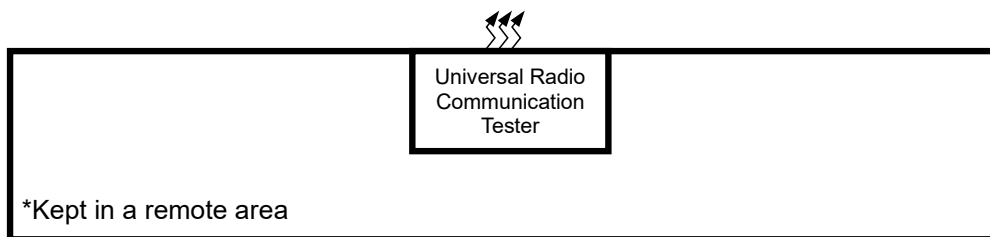
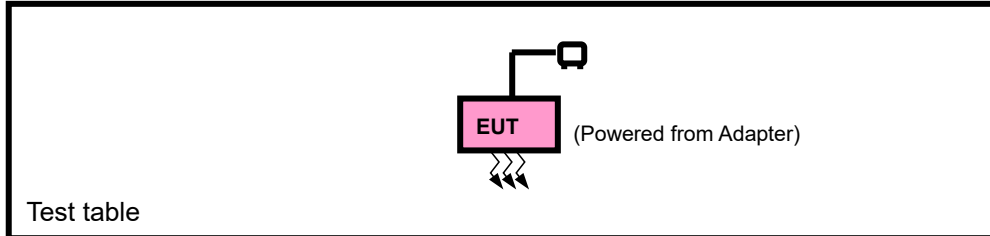
- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

MODULATION MODE	TX FUNCTION
LTE	1TX/1RX

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

2.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION



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	Adapter	XING YUAN ELECTRONICS CO., LTD	XY24SE-120125VQ- ZW	CLASS 2 POWER UNIT	N/A
2	Backplane	TELIT	TELIT EVB 2.0	N/A	N/A
3	SIM Card	N/A	N/A	N/A	N/A
4	Antenna	N/A	T-AT305	N/A	N/A
5	USB cable	N/A	UGREEN	N/A	N/A
6	DC Source	HYELEC	HY3010B	551016	N/A

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

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 Z-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 or LTE link

LTE BAND 5 MODE

EUT CONFIGURE MODE	TEST ITEM	Available Channel	Tested Channel	Channel bandwidth	modulation	mode
A	ERP	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK, 16QAM	1 RB / 0 RB offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM	1 RB / 0 RB offset
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM	1 RB / 0 RB offset
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM	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 5 are covered by LTE Band 26, Because it is a subset of LTE Band 26 with the same output power and supported bandwidths, So the test data please refer to LTE Band 26

Test Report No.: RF260714B001

LTE BAND 26 MODE

EUT CONFIGURE MODE	TEST ITEM	Available Channel	Tested Channel	Channel bandwidth	modulation	mode
A	ERP	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK,16QAM	1 RB / 0 RB offset
		26805 to 27025	26805, 26915, 27025	3MHz	QPSK,16QAM	1 RB / 0 RB offset
		26815 to 27015	26815, 26915, 27015	5MHz	QPSK,16QAM	1 RB / 0 RB offset
		26840 to 26990	26840, 26915, 26990	10MHz	QPSK,16QAM	1 RB / 0 RB offset
		26865 to 26965	26865, 26915, 26965	15MHz	QPSK,16QAM	1 RB / 0 RB offset
B	FREQUENCY STABILITY	26865 to 26965	26865, 26965	15MHz	QPSK	75 RB / 0 RB offset
A	OCCUPIED BANDWIDTH	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK,16QAM	6 RB / 0 RB offset
		26805 to 27025	26805, 26915, 27025	3MHz	QPSK,16QAM	15 RB / 0 RB offset
		26815 to 27015	26815, 26915, 27015	5MHz	QPSK,16QAM	25 RB / 0 RB offset
		26840 to 26990	26840, 26915, 26990	10MHz	QPSK,16QAM	50 RB / 0 RB offset
		26865 to 26965	26865, 26915, 26965	15MHz	QPSK,16QAM	75 RB / 0 RB offset
A	PEAK TO AVERAGE RATIO	26865 to 26965	26865, 26915, 26965	15MHz	QPSK,16QAM	1 RB / 0 RB offset 75 RB / 0 RB offset
A	BAND EDGE	26797 to 27033	26797	1.4 MHz	QPSK,16QAM	1 RB / 0 RB offset
						6 RB / 0 RB offset
		26797 to 27033	27033	1.4 MHz	QPSK,16QAM	1 RB / 5 RB offset
						6 RB / 0 RB offset
		26805 to 27025	26805	3 MHz	QPSK,16QAM	1 RB / 0 RB offset
						15 RB / 0 RB offset
		26805 to 27025	27025	3 MHz	QPSK,16QAM	1 RB / 14 RB offset
						15 RB / 0 RB offset
		26815 to 27015	26815	5MHz	QPSK,16QAM	1 RB / 0 RB offset
						25 RB / 0 RB offset
		26815 to 27015	27015	5MHz	QPSK,16QAM	1 RB / 24 RB offset
						25 RB / 0 RB offset
		26840 to 26990	26840	10MHz	QPSK,16QAM	1 RB / 0 RB offset
						50 RB / 0 RB offset
		26840 to 26990	26990	10MHz	QPSK,16QAM	1 RB / 49 RB offset
						50 RB / 0 RB offset

Test Report No.: RF260714B001

		26865 to 26965	26865	15MHz	QPSK, 16QAM	1 RB / 0 RB offset
						75 RB / 0 RB offset
		26865 to 26965	26965	15MHz	QPSK, 16QAM	1 RB / 74 RB offset
						75 RB / 0 RB offset
A	CONDCUDED EMISSION	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK	1 RB / 0 RB offset
		26805 to 27025	26805, 26915, 27025	3MHz	QPSK	1 RB / 0 RB offset
		26815 to 27015	26815, 26915, 27015	5MHz	QPSK	1 RB / 0 RB offset
		26840 to 26990	26840, 26915, 26990	10MHz	QPSK	1 RB / 0 RB offset
		26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB / 0 RB offset
A	RADIATED EMISSION	26797 to 27033	26915	1.4MHz	QPSK	1 RB / 0 RB offset
		26805 to 27025	26915	3MHz	QPSK	1 RB / 0 RB offset
		26815 to 27015	26915	5MHz	QPSK	1 RB / 0 RB offset
		26840 to 26990	26840, 26915, 26990	10MHz	QPSK	1 RB / 0 RB offset
		26865 to 26965	26915	15MHz	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 Report No.: RF260714B001

TEST CONDITION			
TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	23deg. C, 70%RH	DC 3.8V By Adapter	Carl Xie
FREQUENCY STABILITY	23deg. C, 70%RH	DC 3.2V/ 3.8V/ 4.5V By DC Source	Alan Yu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	DC 3.8V By Adapter	Alan Yu
BAND EDGE	23deg. C, 70%RH	DC 3.8V By Adapter	Alan Yu
CONDCUDED EMISSION	23deg. C, 70%RH	DC 3.8V By Adapter	Alan Yu
RADIATED EMISSION	23deg. C, 70%RH	DC 3.8V By Adapter	Carl Xie
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	DC 3.8V By Adapter	Alan Yu



Test Report No.: RF260714B001

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 22

KDB 971168 D01 Power Meas License Digital Systems v03r01

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 / Portable station are limited to 7 watts e.r.p.

3.1.2 TEST PROCEDURES

EIRP / ERP 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:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_{\text{T}} - L_{\text{C}}$$

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.

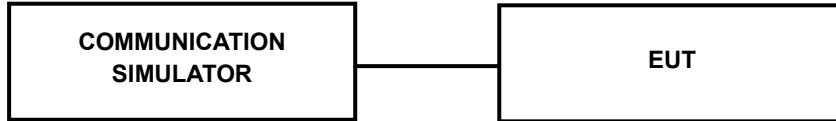


Test Report No.: RF260714B001

3.1.3 TEST SETUP

EIRP / ERP Measurement:

CONDUCTED POWER MEASUREMENT:



3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm):

LTE Band 5						
BW	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		20450	20525	20600
		Frequency (MHz)		829	836.5	844
10M	QPSK	1	0	23.68	23.61	23.81
		1	24	23.90	23.95	23.91
		1	49	23.76	23.62	23.73
		25	0	22.92	22.91	22.86
		25	12	22.96	22.95	22.93
		25	25	22.89	22.85	22.86
		50	0	22.83	22.81	22.82
	16QAM	1	0	22.96	22.92	22.97
		1	12	22.89	22.83	22.86
		1	24	22.93	22.88	22.87
		12	0	22.93	22.83	22.88
		12	18	22.84	22.77	22.93
		12	36	22.94	22.83	22.91
		27	0	21.96	21.95	21.96
BW	Modulation	Channel		20425	20525	20625
		Frequency (MHz)		826.5	836.5	846.5
5M	QPSK	1	0	23.59	23.57	23.73
		1	12	23.83	23.94	23.79
		1	24	23.70	23.52	23.62
		12	0	22.86	22.87	22.81
		12	6	22.81	22.85	22.83
		12	13	22.84	22.84	22.82
		25	0	22.74	22.75	22.70
	16QAM	1	0	22.93	22.85	22.82
		1	12	22.87	22.72	22.75
		1	24	22.79	22.73	22.82
		12	0	21.77	21.68	21.89
		12	7	21.68	21.73	21.79
		12	13	21.67	21.79	21.88
		25	0	21.81	21.83	21.94

Test Report No.: RF260714B001

LTE Band 5						
BW	Modulation	Channel		20415	20525	20635
		Frequency (MHz)		825.5	836.5	847.5
3M	QPSK	1	0	23.55	23.57	23.74
		1	7	23.85	23.90	23.77
		1	14	23.68	23.59	23.68
		8	0	22.79	22.84	22.82
		8	3	22.85	22.93	22.91
		8	7	22.75	22.78	22.71
		15	0	22.76	22.66	22.76
	16QAM	1	0	22.83	22.84	22.95
		1	7	22.78	22.69	22.73
		1	14	22.89	22.79	22.72
		8	0	21.79	21.78	21.92
		8	4	21.70	21.76	21.87
		8	7	21.78	21.81	21.84
		15	0	21.88	21.89	21.90
BW	Modulation	Channel		20407	20525	20643
		Frequency (MHz)		824.7	836.5	848.3
1.4M	QPSK	1	0	23.65	23.48	23.69
		1	2	23.77	23.82	23.79
		1	5	23.69	23.52	23.71
		3	0	23.65	23.66	23.65
		3	1	23.61	23.60	23.65
		3	3	23.57	23.62	23.54
		6	0	22.81	22.69	22.71
	16QAM	1	0	22.81	22.80	22.92
		1	2	22.74	22.79	22.79
		1	5	22.87	22.82	22.73
		3	0	22.76	22.72	22.69
		3	1	22.76	22.76	22.63
		3	3	22.78	22.78	22.58
		6	0	21.95	21.91	21.90

Test Report No.: RF260714B001

LTE Band 26						
BW	Modulation	RB Size	RB Offset	Mid	Mid	High
		Channel		26865	26915	26965
		Frequency (MHz)		831.5	836.5	841.5
15M	QPSK	1	0	23.80	23.71	23.75
		1	37	23.77	23.67	23.76
		1	74	23.31	23.18	23.30
		36	0	22.68	22.58	22.61
		36	19	22.80	22.71	22.65
		36	39	22.82	22.73	22.67
		75	0	22.71	22.70	22.61
	16QAM	1	0	22.98	22.95	22.91
		1	12	22.91	22.87	22.90
		1	24	23.06	22.99	23.02
		12	0	22.80	22.66	22.65
		12	31	22.97	22.94	22.90
		12	61	22.57	22.49	22.48
		27	0	21.92	21.88	21.88
BW	Modulation	Channel		26840	26915	26990
		Frequency (MHz)		829	836.5	844
10M	QPSK	1	0	23.68	23.70	23.62
		1	24	23.74	23.52	23.63
		1	49	23.29	23.10	23.20
		25	0	22.65	22.49	22.52
		25	12	22.68	22.68	22.54
		25	25	22.73	22.60	22.60
		50	0	22.57	22.68	22.47
	16QAM	1	0	22.94	22.92	22.93
		1	12	22.87	22.78	22.86
		1	24	23.03	22.91	23.01
		13	0	22.76	22.55	22.62
		13	18	22.93	22.88	22.88
		13	36	22.42	22.39	22.47
		27	0	21.77	21.83	21.87

Test Report No.: RF260714B001

LTE Band 26						
BW	Modulation	Channel		26815	26915	27015
		Frequency (MHz)		826.5	836.5	846.5
5M	QPSK	1	0	23.74	23.63	23.64
		1	12	23.69	23.63	23.66
		1	24	23.23	23.07	23.20
		12	0	22.55	22.43	22.49
		12	6	22.73	22.60	22.60
		12	13	22.72	22.71	22.61
		25	0	22.69	22.60	22.57
	16QAM	1	0	22.95	22.92	22.86
		1	12	22.84	22.75	22.83
		1	24	22.94	22.89	22.90
		12	0	21.68	21.74	21.75
		12	7	21.78	21.72	21.68
		12	13	21.68	21.67	21.81
		25	0	21.83	21.75	21.83
BW	Modulation	Channel		26805	26915	27025
		Frequency (MHz)		825.5	836.5	847.5
3M	QPSK	1	0	23.75	23.69	23.67
		1	7	23.64	23.53	23.69
		1	14	23.30	23.17	23.26
		8	0	22.58	22.56	22.53
		8	3	22.72	22.67	22.58
		8	7	22.79	22.71	22.52
		15	0	22.66	22.58	22.53
	16QAM	1	0	22.99	22.91	22.85
		1	7	22.90	22.80	22.77
		1	14	23.00	22.91	22.96
		8	0	21.70	21.61	21.68
		8	4	21.70	21.66	21.69
		8	7	21.80	21.64	21.72
		15	0	21.85	21.85	21.81

LTE Band 26						
BW	Modulation	Channel		26797	26915	27033
		Frequency (MHz)		824.7	836.5	848.3
1.4M	QPSK	1	0	23.75	23.68	23.60
		1	2	23.71	23.52	23.66
		1	5	23.28	23.08	23.28
		3	0	23.37	23.27	23.28
		3	1	23.56	23.38	23.40
		3	3	23.63	23.54	23.43
		6	0	22.65	22.64	22.54
	16QAM	1	0	22.96	22.99	23.01
		1	2	22.83	22.79	22.86
		1	5	22.92	22.92	22.94
		3	0	22.83	22.93	22.95
		3	1	22.68	22.70	22.79
		3	3	22.90	22.82	22.80
		6	0	21.77	21.82	21.82

Test Report No.: RF260714B001

ERP

LTE Band 5							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	FCC Limit (W)
10M-QPSK	20450	829	23.90	-1	20.75	118.85	7
	20525	836.5	23.95	-1	20.80	120.23	7
	20600	844	23.91	-1	20.76	119.12	7
10M-16QAM	20450	829	22.96	-1	19.81	95.72	7
	20525	836.5	22.92	-1	19.77	94.84	7
	20600	844	22.97	-1	19.82	95.94	7
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	FCC Limit (W)
5M-QPSK	20425	826.5	23.83	-1	20.68	116.95	7
	20525	836.5	23.94	-1	20.79	119.95	7
	20625	846.5	23.79	-1	20.64	115.88	7
5M-16QAM	20425	826.5	22.93	-1	19.78	95.06	7
	20525	836.5	22.85	-1	19.70	93.33	7
	20625	846.5	22.82	-1	19.67	92.68	7
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	FCC Limit (W)
3M-QPSK	20415	825.5	23.85	-1	20.70	117.49	7
	20525	836.5	23.90	-1	20.75	118.85	7
	20635	847.5	23.77	-1	20.62	115.35	7
3M-16QAM	20415	825.5	22.89	-1	19.74	94.19	7
	20525	836.5	22.84	-1	19.69	93.11	7
	20635	847.5	22.95	-1	19.80	95.50	7
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	FCC Limit (W)
1.4M-QPSK	20407	824.7	23.77	-1	20.62	115.35	7
	20525	836.5	23.82	-1	20.67	116.68	7
	20643	848.3	23.79	-1	20.64	115.88	7
1.4M-16QAM	20407	824.7	22.87	-1	19.72	93.76	7
	20525	836.5	22.82	-1	19.67	92.68	7
	20643	848.3	22.92	-1	19.77	94.84	7

Test Report No.: RF260714B001

LTE Band 26							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	FCC Limit (W)
15M-QPSK	26865	831.5	23.80	0	21.65	146.22	7
	26915	836.5	23.71	0	21.56	143.22	7
	26965	841.5	23.76	0	21.61	144.88	7
15M- 16QAM	26865	831.5	23.06	0	20.91	123.31	7
	26915	836.5	22.99	0	20.84	121.34	7
	26965	841.5	23.02	0	20.87	122.18	7
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	FCC Limit (W)
10M-QPSK	26840	829	23.74	0	21.59	144.21	7
	26915	836.5	23.70	0	21.55	142.89	7
	26990	844	23.63	0	21.48	140.60	7
10M- 16QAM	26840	829	23.03	0	20.88	122.46	7
	26915	836.5	22.92	0	20.77	119.40	7
	26990	844	23.01	0	20.86	121.90	7
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	FCC Limit (W)
5M-QPSK	26815	826.5	23.74	0	21.59	144.21	7
	26915	836.5	23.63	0	21.48	140.60	7
	27015	846.5	23.66	0	21.51	141.58	7
5M-16QAM	26815	826.5	22.95	0	20.80	120.23	7
	26915	836.5	22.92	0	20.77	119.40	7
	27015	846.5	22.90	0	20.75	118.85	7

Test Report No.: RF260714B001

LTE Band 26							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	FCC Limit (W)
3M-QPSK	26805	825.5	23.75	0	21.60	144.54	7
	26915	836.5	23.69	0	21.54	142.56	7
	27025	847.5	23.69	0	21.54	142.56	7
3M-16QAM	26805	825.5	23.00	0	20.85	121.62	7
	26915	836.5	22.91	0	20.76	119.12	7
	27025	847.5	22.96	0	20.81	120.50	7
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	FCC Limit (W)
1.4MM- QPSK	26797	824.7	23.75	0	21.60	144.54	7
	26915	836.5	23.68	0	21.53	142.23	7
	27033	848.3	23.66	0	21.51	141.58	7
1.4MM- 16QAM	26797	824.7	22.96	0	20.81	120.50	7
	26915	836.5	22.99	0	20.84	121.34	7
	27033	848.3	23.01	0	20.86	121.90	7

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

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

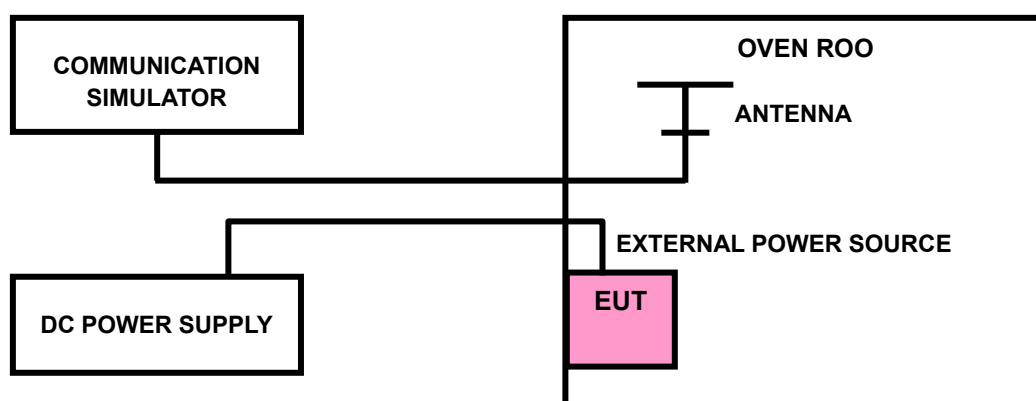
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

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 Appendix of this test report.

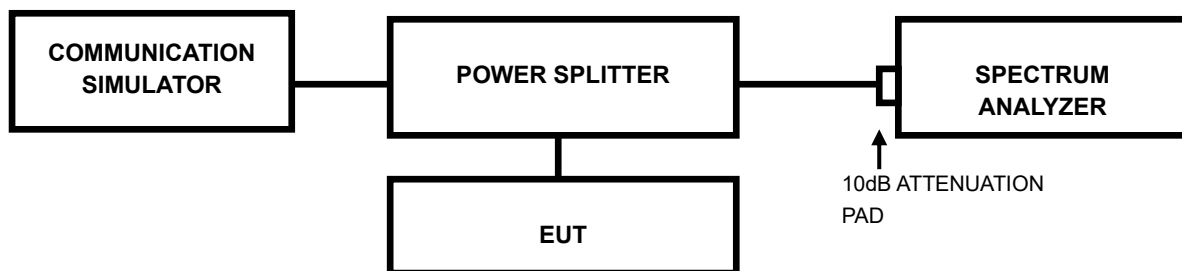
Note: VL = Low voltage(3.2V); VN/NV = Normal voltage(3.8V); VH = High voltage(4.5V); NT = Normal temperature (25°C)

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

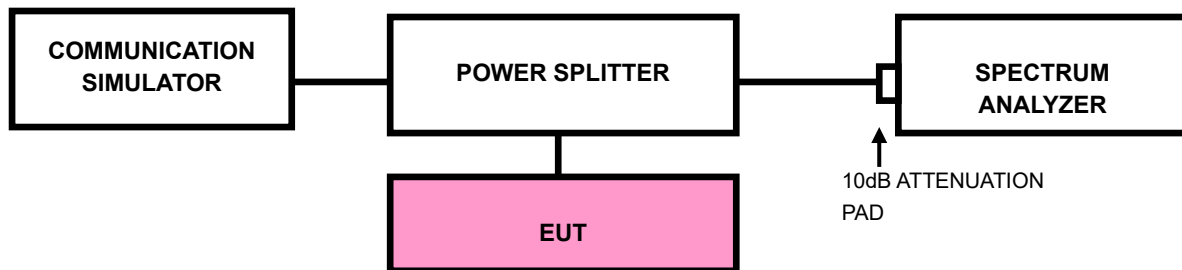
Please Refer to Appendix of this test report.

3.4 BAND EDGE MEASUREMENT

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 Appendix of this test report.

3.5 CONDUCTED SPURIOUS EMISSIONS

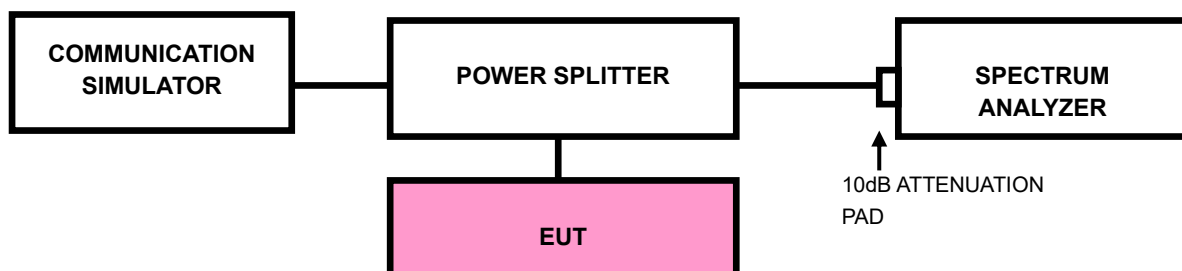
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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 9kHz 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

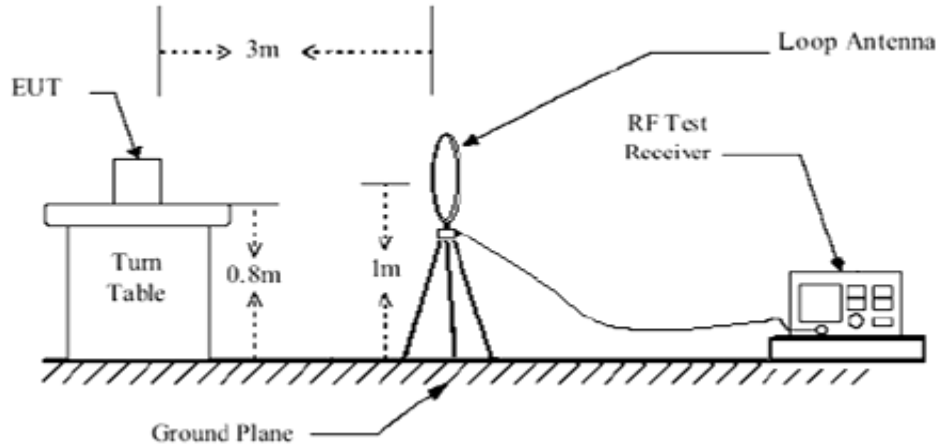
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 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. $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,
 $\text{E.R.P power} = \text{E.I.P.R power} - 2.15\text{dBi}$.

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

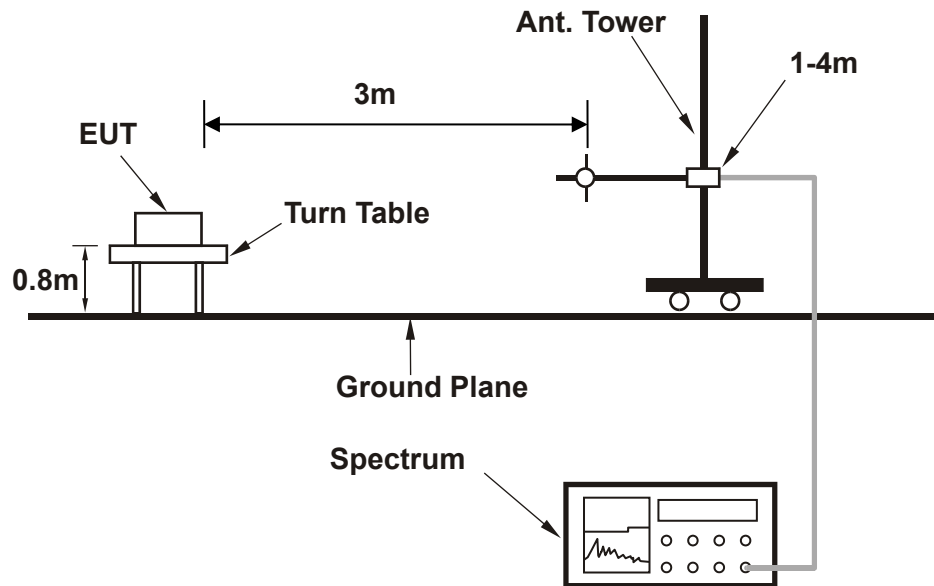
3.6.3 DEVIATION FROM TEST STANDARD

No deviation

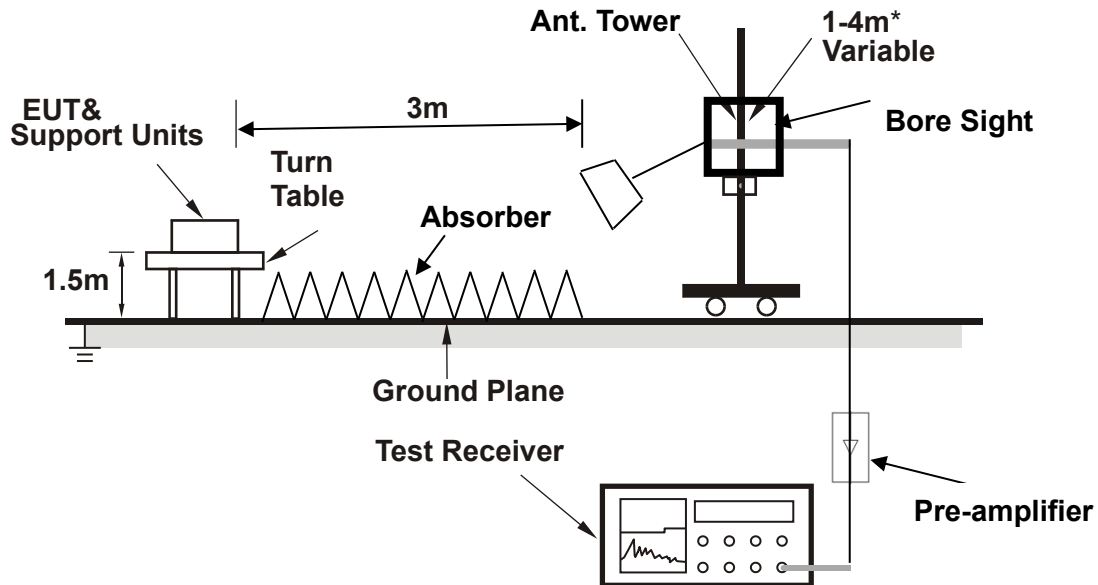
< Frequency Range below 30MHz >



< Frequency Range 30MHz~1GHz >



Test Report No.: RF260714B001
<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).

Test Report No.: RF260714B001

3.6.5 TEST RESULTS

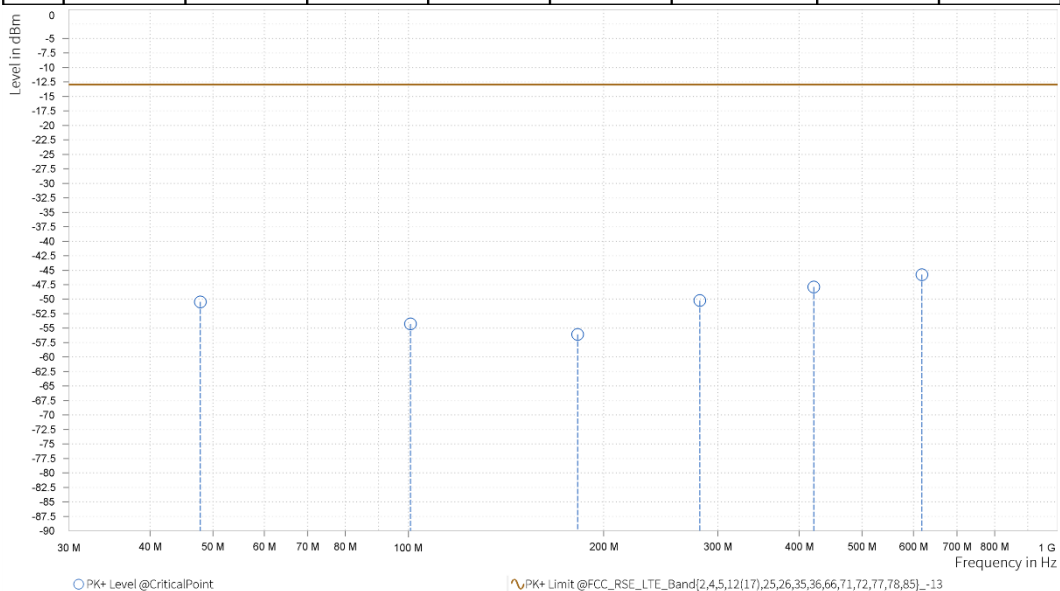
NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

BELOW 1GHz WORST-CASE DATA

LTE Band 26			
CHANNEL BANDWIDTH: 10MHz/QPSK			
MODE	TX channel 26840	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Carl Xie		

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	47.848	-50.48	-13.00	37.48	8.66	H	99.9	1.00
1	100.762	-54.29	-13.00	41.29	5.13	H	205	1.00
1	182.387	-56.08	-13.00	43.08	4.05	H	7.3	2.00
1	281.085	-50.23	-13.00	37.23	9.99	H	359	1.00
1	421.492	-47.90	-13.00	34.90	10.39	H	49.7	2.00
1	618.160	-45.76	-13.00	32.76	14.74	H	205	1.00

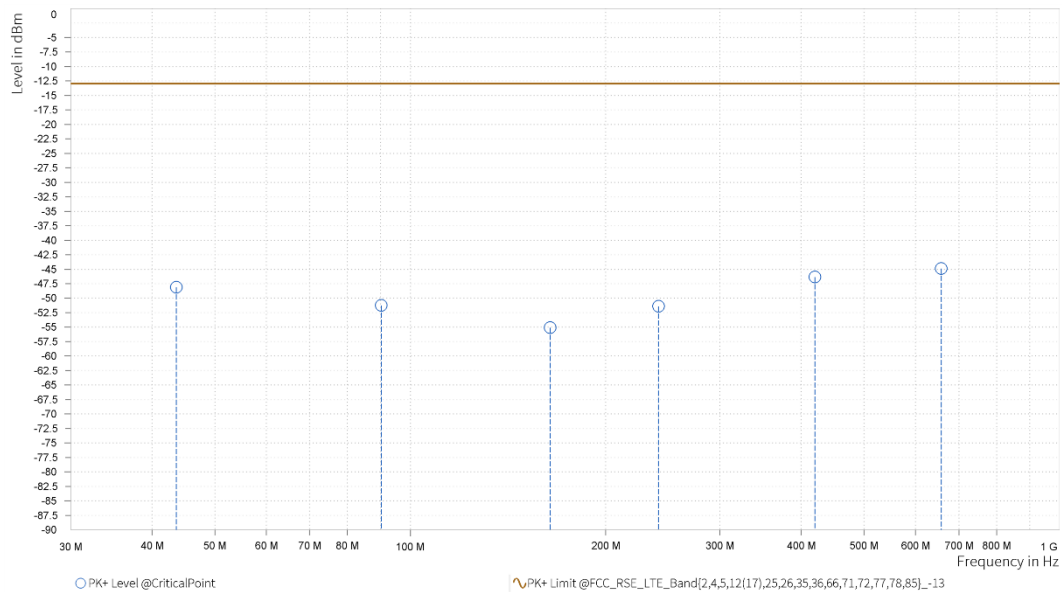


Test Report No.: RF260714B001

MODE	TX channel 26840	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	120Vac 60HZ
TESTED BY	Carl Xie		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

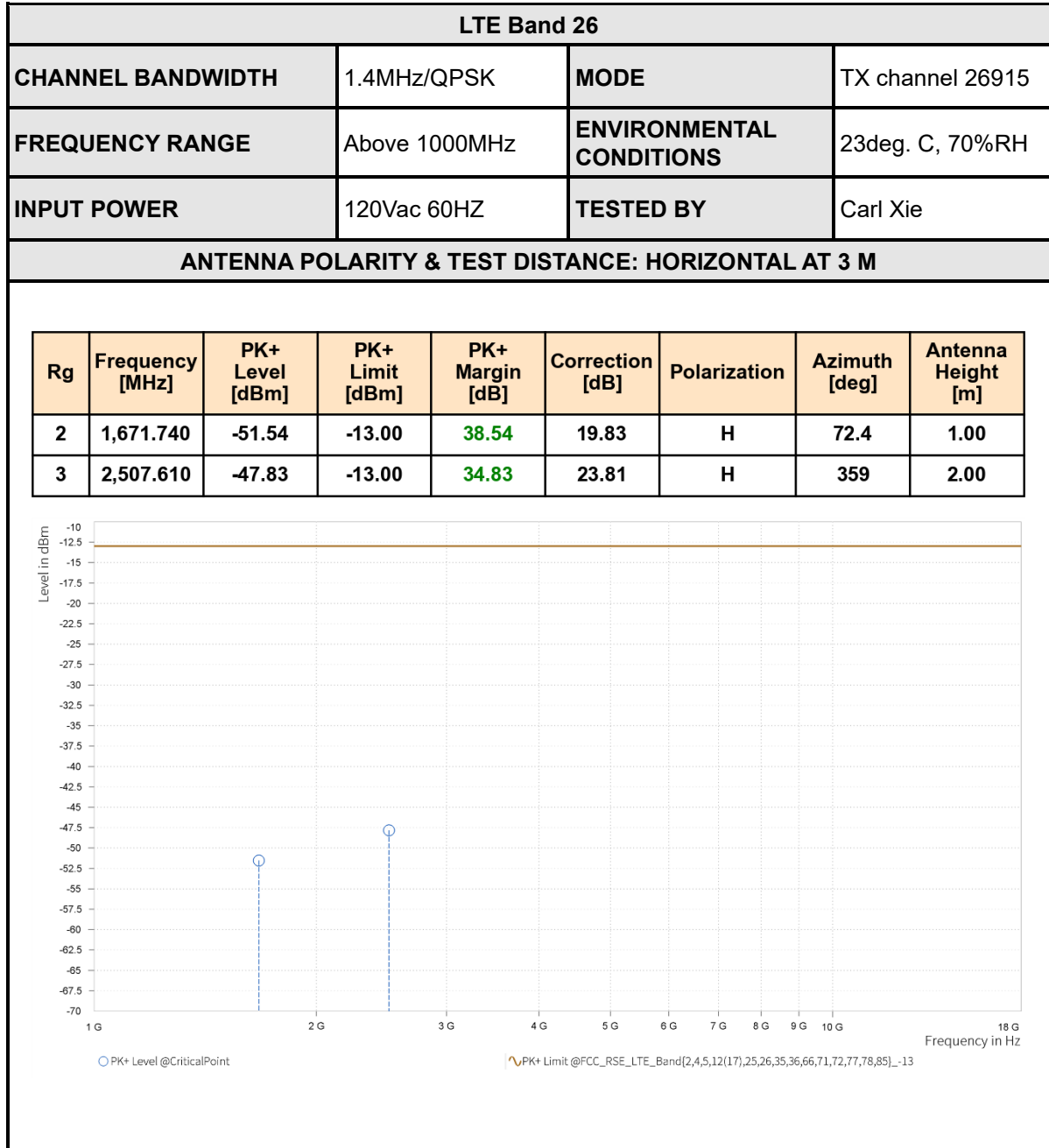
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	43.629	-48.12	-13.00	35.12	11.08	V	353.4	1.00
1	90.189	-51.26	-13.00	38.26	7.85	V	310.4	2.00
1	164.151	-55.09	-13.00	42.09	3.89	V	1	1.00
1	241.218	-51.40	-13.00	38.40	8.70	V	359	2.00
1	419.892	-46.35	-13.00	33.35	11.58	V	256.6	2.00
1	657.396	-44.89	-13.00	31.89	15.20	V	355	2.00



Test Report No.: RF260714B001

ABOVE 1GHz DATA

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

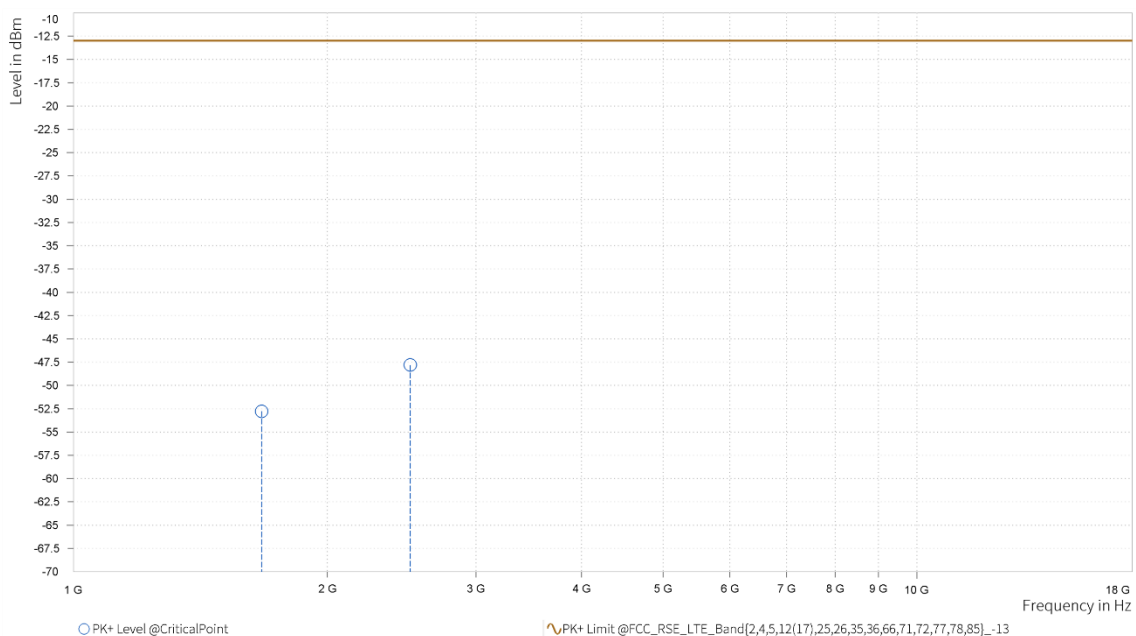


Test Report No.: RF260714B001

CHANNEL BANDWIDTH	1.4MHz/QPSK	MODE	TX channel 26915
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

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]
2	1,671.740	-52.77	-13.00	39.77	19.62	V	1.4	2.00
3	2,507.610	-47.82	-13.00	34.82	23.47	V	140.6	1.00

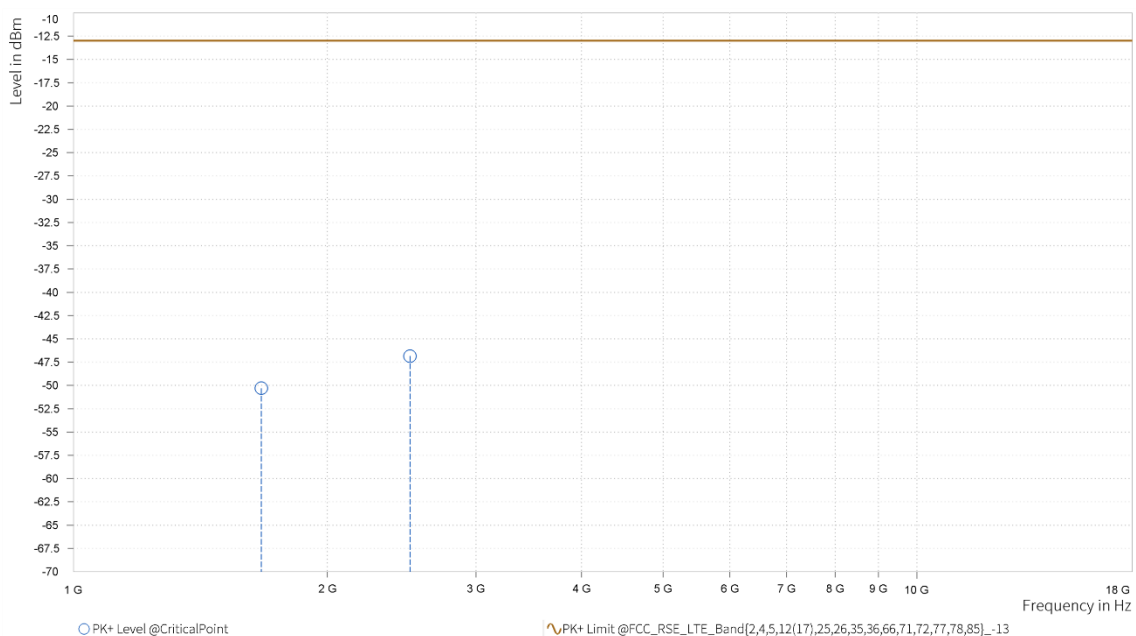


Test Report No.: RF260714B001

CHANNEL BANDWIDTH	3MHz/QPSK	MODE	TX channel 26915
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

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]
2	1,670.300	-50.31	-13.00	37.31	19.79	H	1	1.00
3	2,505.450	-46.85	-13.00	33.85	23.83	H	1	1.00

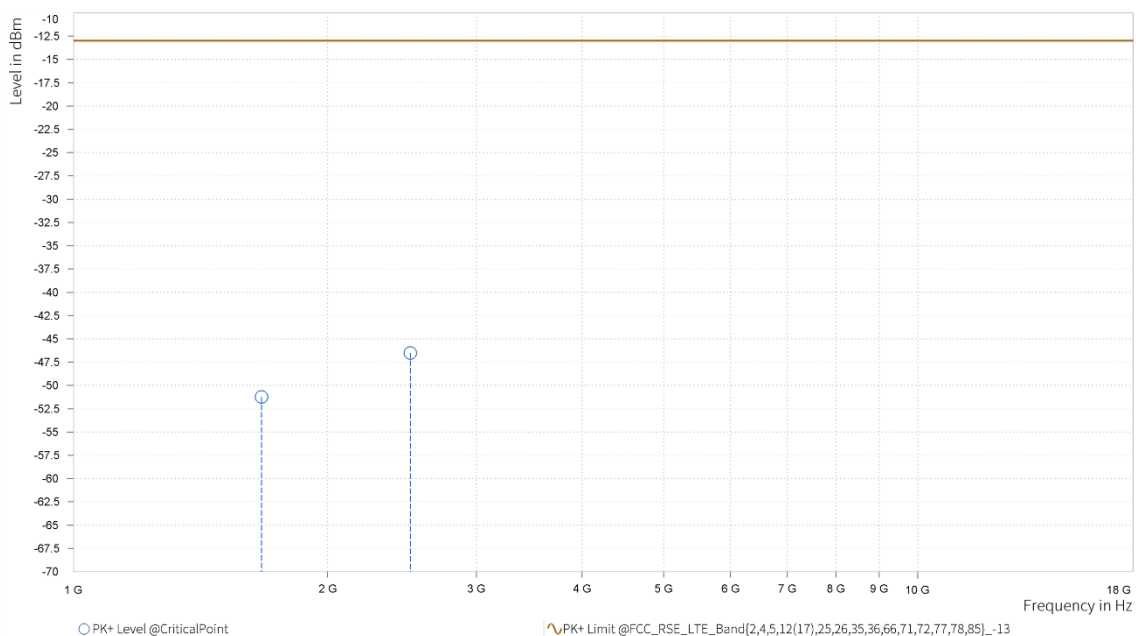


Test Report No.: RF260714B001

CHANNEL BANDWIDTH	3MHz/QPSK	MODE	TX channel 26915
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

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]
2	1,670.300	-51.25	-13.00	38.25	19.56	V	71.2	1.00
3	2,505.450	-46.52	-13.00	33.52	23.47	V	359	2.00

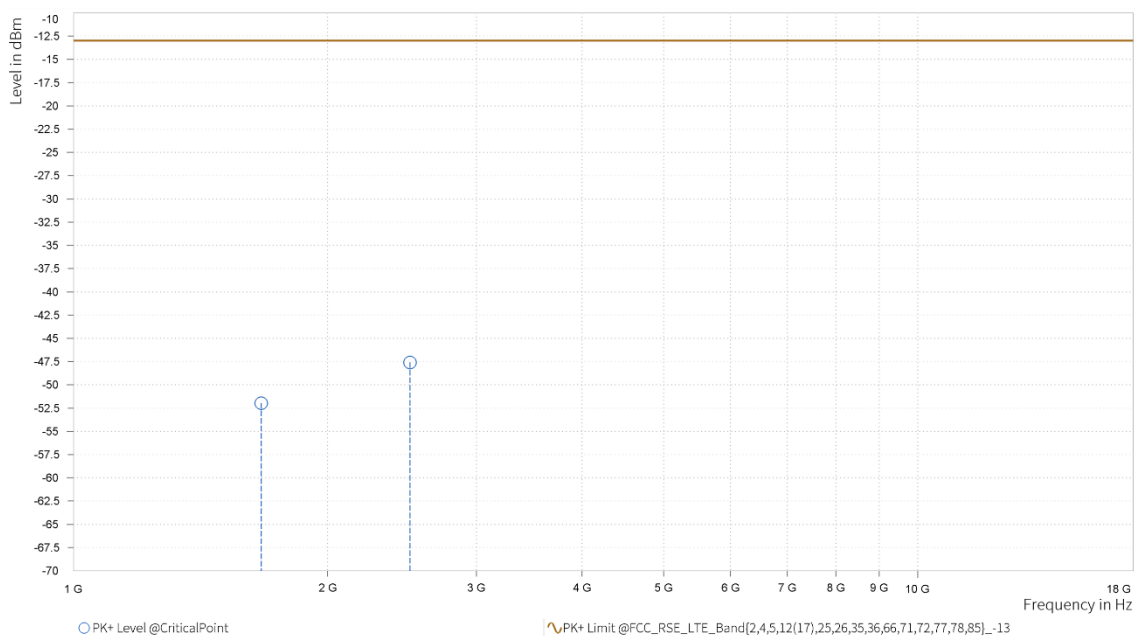


Test Report No.: RF260714B001

CHANNEL BANDWIDTH	5MHz/QPSK	MODE	TX channel 26915
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

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]
2	1,668.500	-51.97	-13.00	38.97	19.71	H	358.6	1.00
3	2,502.750	-47.59	-13.00	34.59	23.84	H	1	1.00

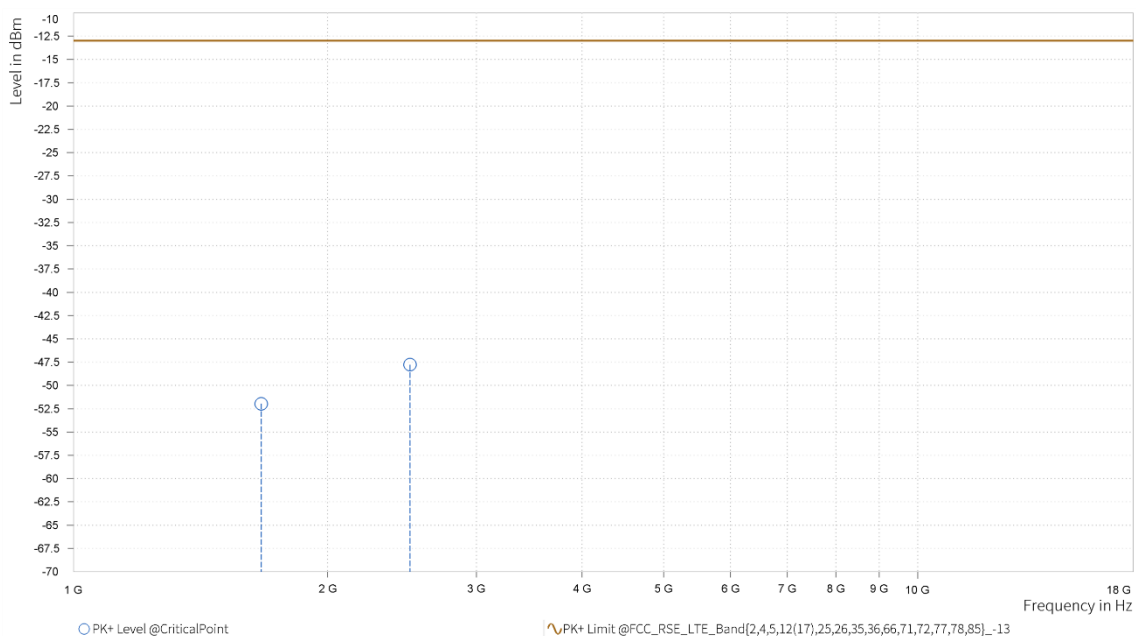


Test Report No.: RF260714B001

CHANNEL BANDWIDTH	5MHz/QPSK	MODE	TX channel 26915
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

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]
2	1,668.500	-51.97	-13.00	38.97	19.44	V	359	2.00
3	2,502.750	-47.77	-13.00	34.77	23.48	V	135.8	1.00



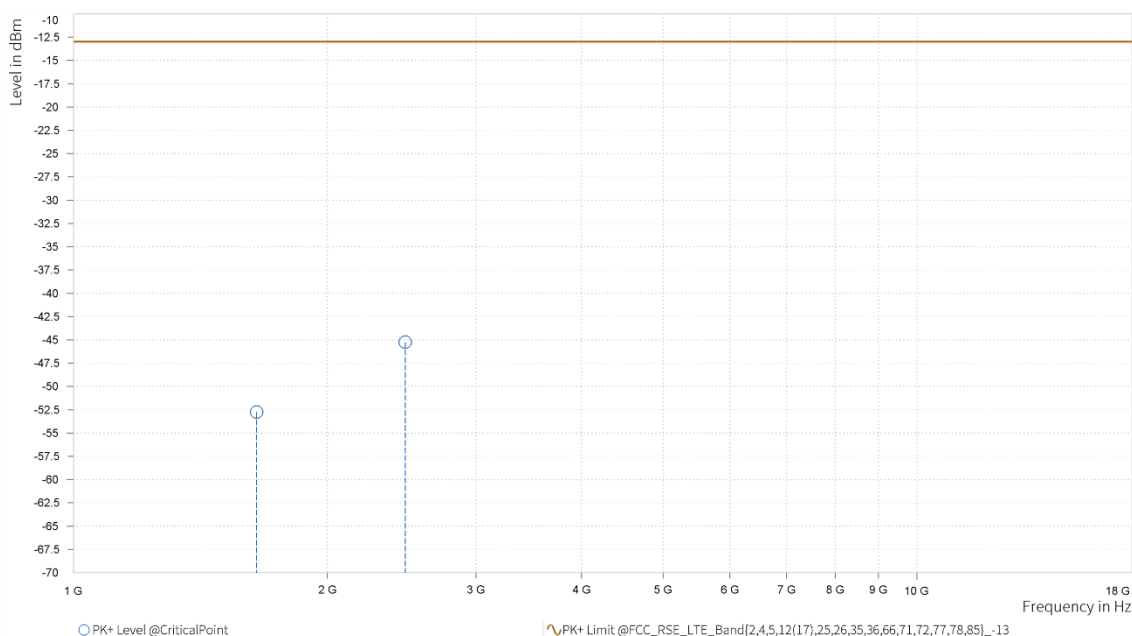
Test Report No.: RF260714B001

CH26840

CHANNEL BANDWIDTH	10MHz/QPSK	MODE	TX channel 26840
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

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]
2	1,649.000	-52.75	-13.00	39.75	18.65	H	1	2.00
3	2,473.500	-45.25	-13.00	32.25	24.39	H	1	2.00

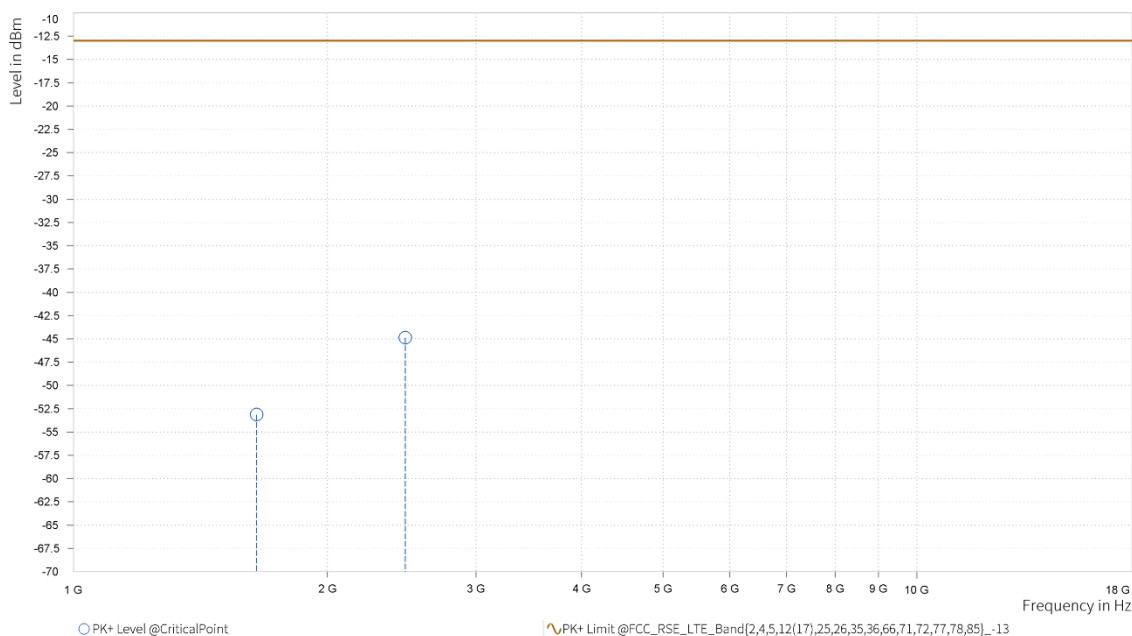


Test Report No.: RF260714B001

CHANNEL BANDWIDTH	10MHz/QPSK	MODE	TX channel 26840
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

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]
2	1,649.000	-53.13	-13.00	40.13	18.12	V	359	2.00
3	2,473.500	-44.87	-13.00	31.87	24.09	V	359.1	1.00



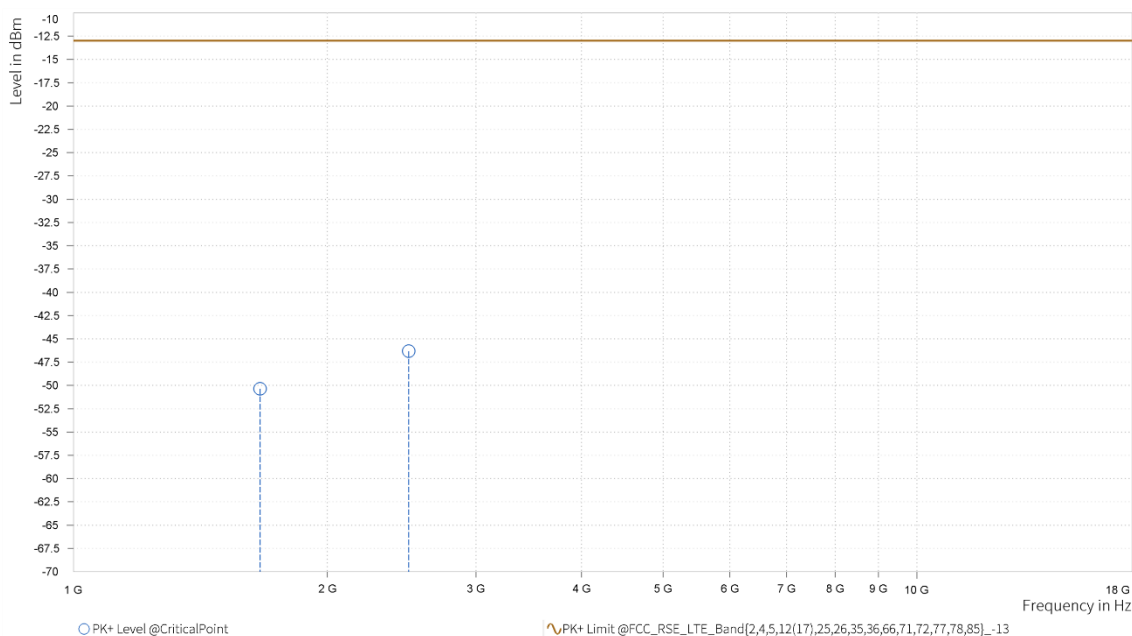
Test Report No.: RF260714B001

CH26915

CHANNEL BANDWIDTH	10MHz/QPSK	MODE	TX channel 26915
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

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]
2	1,664.000	-50.37	-13.00	37.37	19.52	H	2.2	2.00
3	2,496.000	-46.32	-13.00	33.32	23.86	H	1	2.00

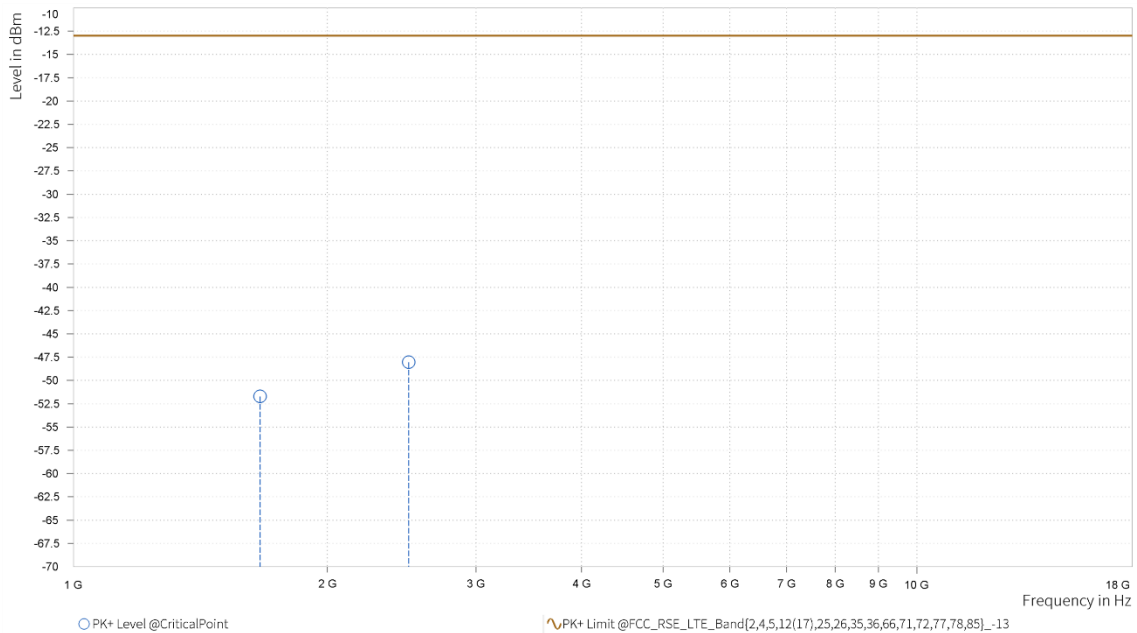


Test Report No.: RF260714B001

CHANNEL BANDWIDTH	10MHz/QPSK	MODE	TX channel 26915
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

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]
2	1,664.000	-51.72	-13.00	38.72	19.18	V	359	2.00
3	2,496.000	-48.04	-13.00	35.04	23.47	V	359	2.00



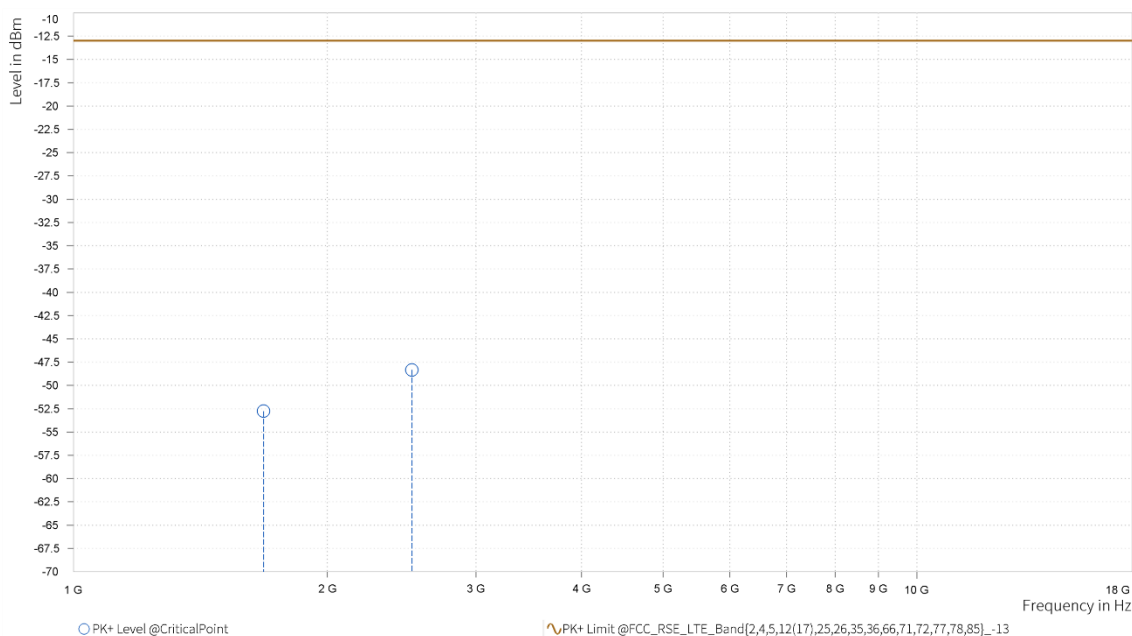
Test Report No.: RF260714B001

CH26990

CHANNEL BANDWIDTH	10MHz/QPSK	MODE	TX channel 26990
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

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]
2	1,679.000	-52.76	-13.00	39.76	20.17	H	359.1	1.00
3	2,518.500	-48.33	-13.00	35.33	24.47	H	1	1.00

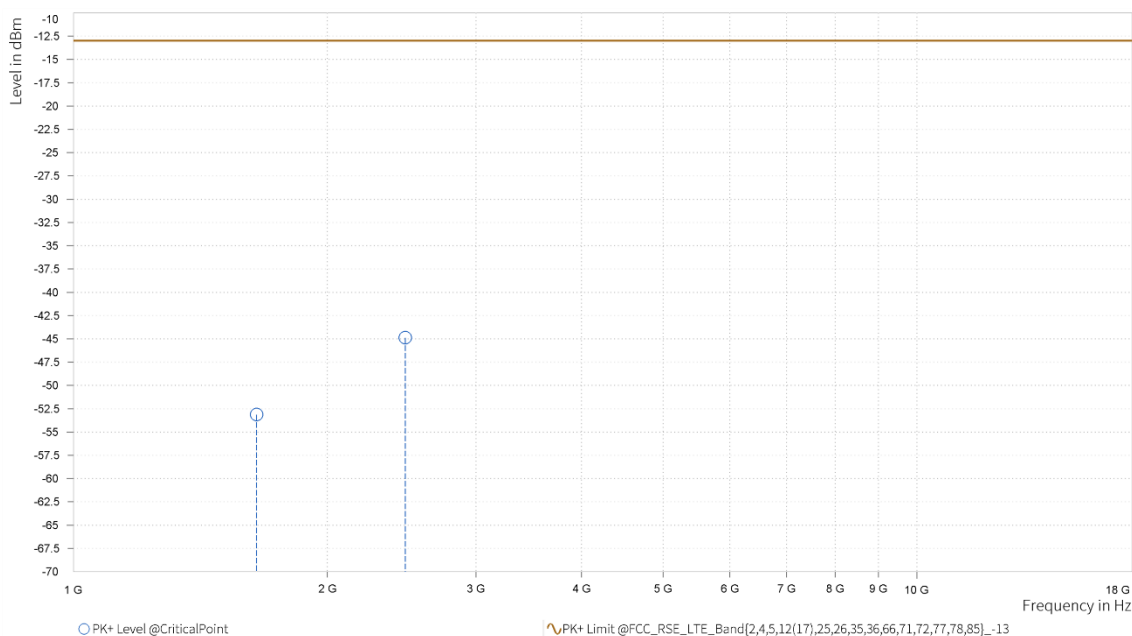


Test Report No.: RF260714B001

CHANNEL BANDWIDTH	10MHz/QPSK	MODE	TX channel 26990
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

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]
2	1,649.000	-53.13	-13.00	40.13	18.12	V	359	2.00
3	2,473.500	-44.87	-13.00	31.87	24.09	V	359.1	1.00

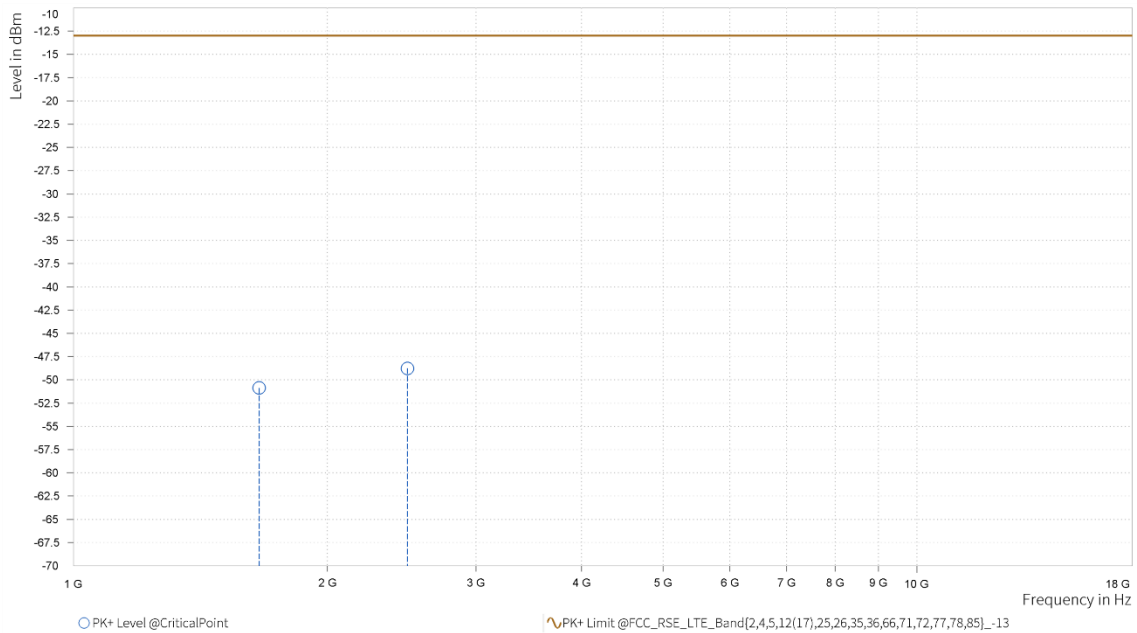


Test Report No.: RF260714B001

CHANNEL BANDWIDTH	15MHz/QPSK	MODE	TX channel 26915
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

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]
2	1,659.500	-50.87	-13.00	37.87	19.33	H	359.1	1.00
3	2,489.250	-48.77	-13.00	35.77	23.92	H	359.1	1.00

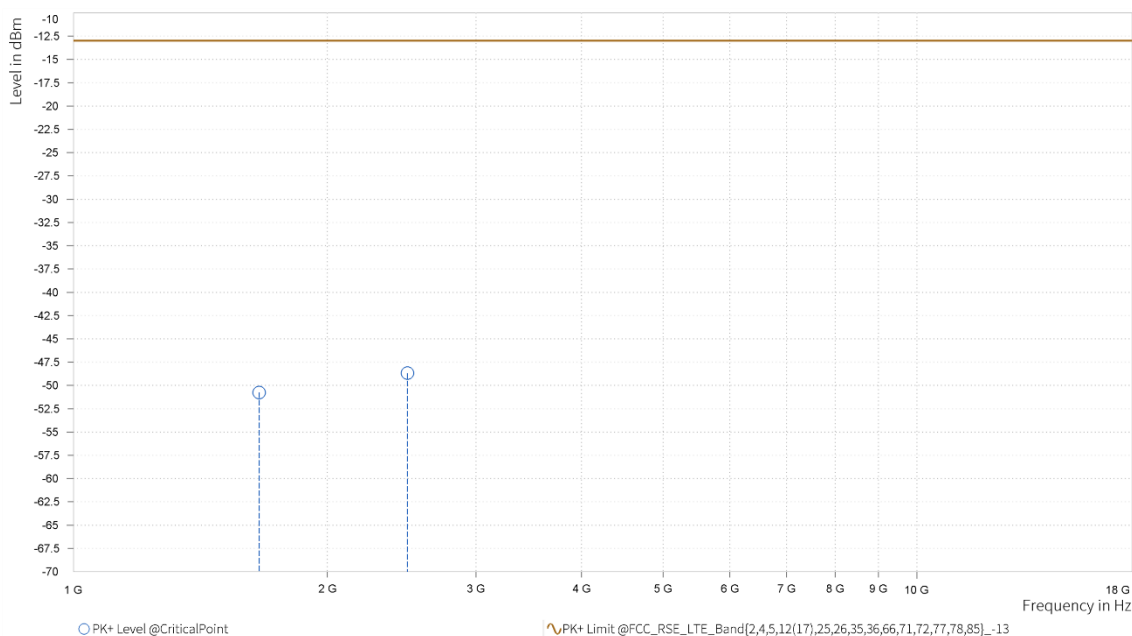


Test Report No.: RF260714B001

CHANNEL BANDWIDTH	15MHz/QPSK	MODE	TX channel 26915
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

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]
2	1,659.500	-50.76	-13.00	37.76	18.91	V	0.9	2.00
3	2,489.250	-48.68	-13.00	35.68	23.55	V	0.9	2.00

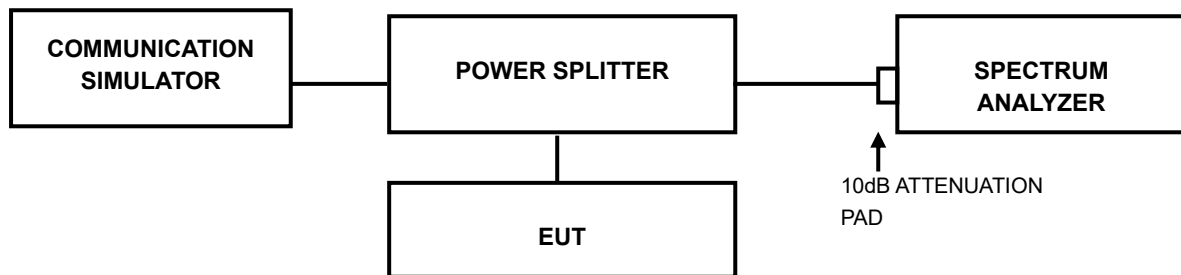


3.7 PEAK TO AVERAGE RATIO

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 $\geq$ 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 Appendix of this test report.



Test Report No.: RF260714B001

4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



Test Report No.: RF260714B001

5 INFORMATION ON THE TESTING LABORATORIES

We, BOOMWAVE TEST (SHENZHEN) CO., LTD., were founded in 2025 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

BOOMWAVE TEST (SHENZHEN) CO., LTD.

Lab Address:

Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan 4th Road, Chiwan Community, Zhaoshang Street, Nanshan District, Shenzhen, Guangdong, P.R. CHINA

Accredited Test Lab Cert 7607.01

Shenzhen EMC/RF Lab:

Mobile: +86 15118052731

Email: shimin.wang@boomwavelab.com



Test Report No.: RF260714B001

6 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.

7 APPENDIX:

LTE Band 26_Part22(Including LTE Band 5)

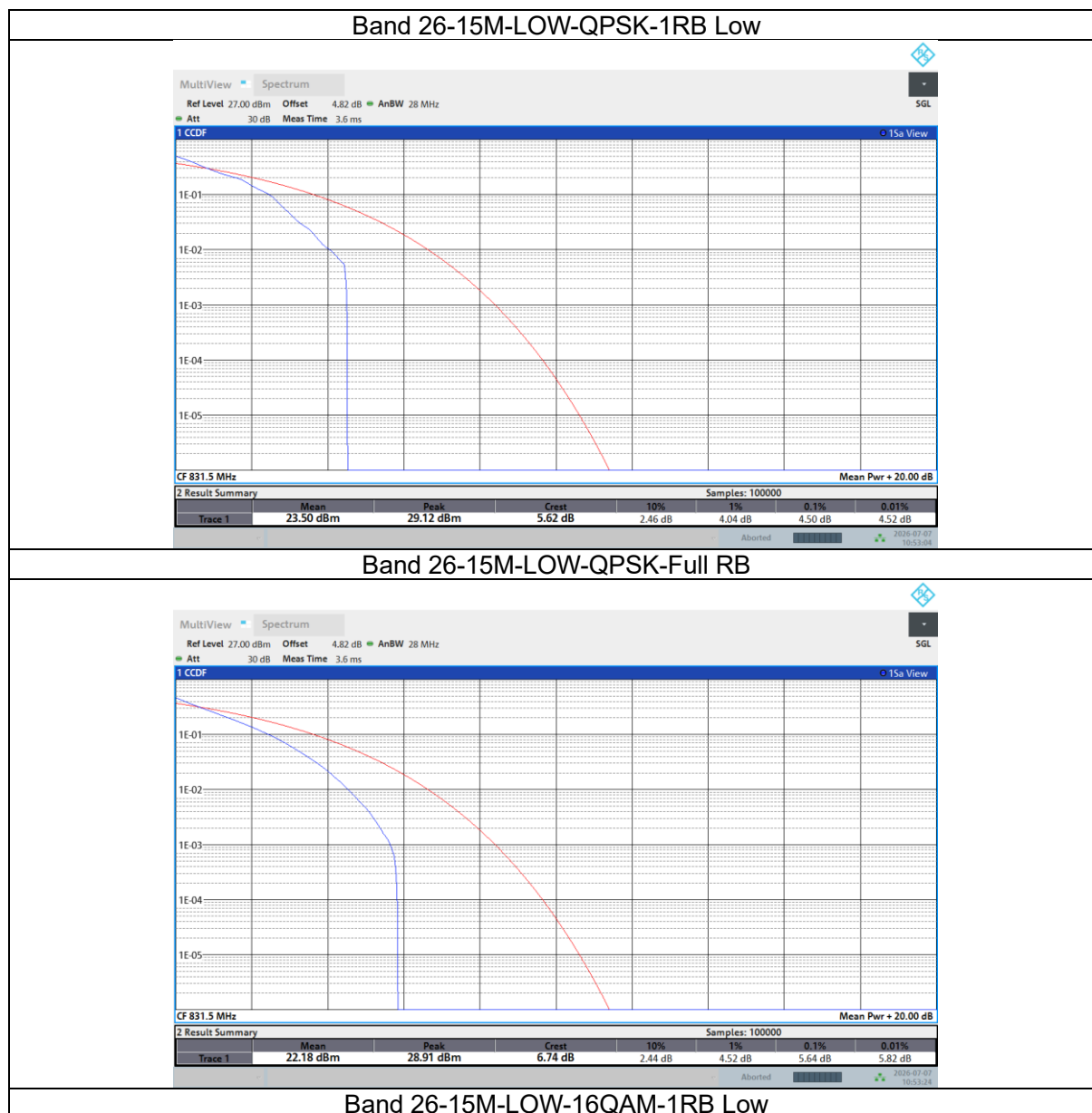
PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

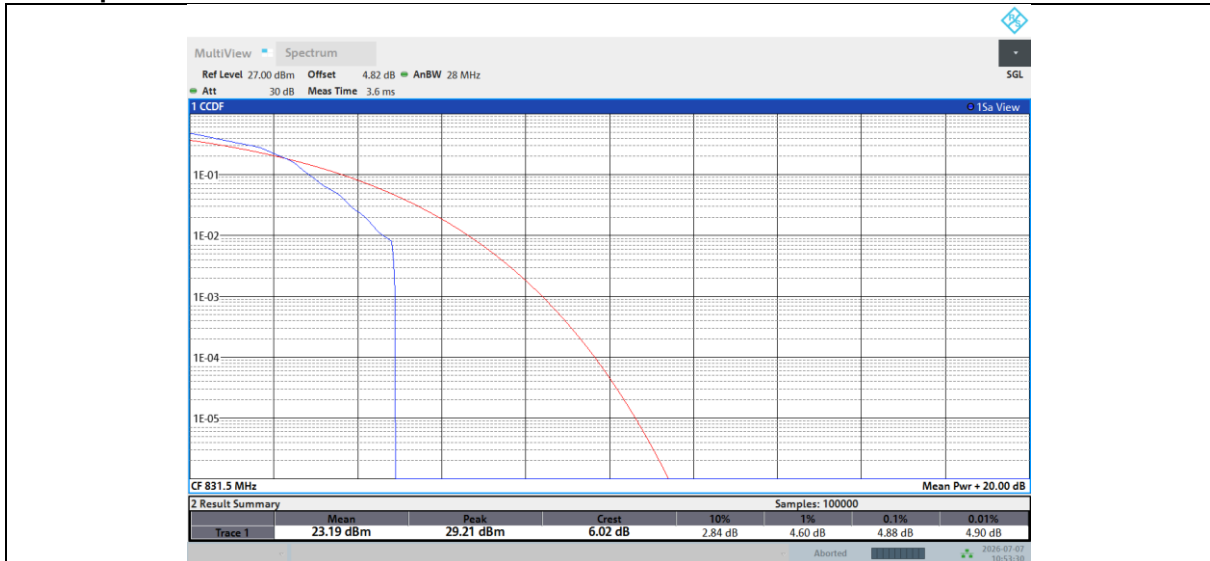
Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
15MHz	QPSK	26865	1RB Low	4.50	13	PASS
15MHz	QPSK	26865	Full RB	5.64	13	PASS
15MHz	16QAM	26865	1RB Low	4.88	13	PASS
15MHz	16QAM	26865	Full RB	5.96	13	PASS
15MHz	QPSK	26915	1RB Low	4.32	13	PASS
15MHz	QPSK	26915	Full RB	5.14	13	PASS
15MHz	16QAM	26915	1RB Low	5.16	13	PASS
15MHz	16QAM	26915	Full RB	6.14	13	PASS
15MHz	QPSK	26965	1RB Low	4.22	13	PASS
15MHz	QPSK	26965	Full RB	5.22	13	PASS
15MHz	16QAM	26965	1RB Low	5.06	13	PASS
15MHz	16QAM	26965	Full RB	5.60	13	PASS

Test Report No.: RF260714B001

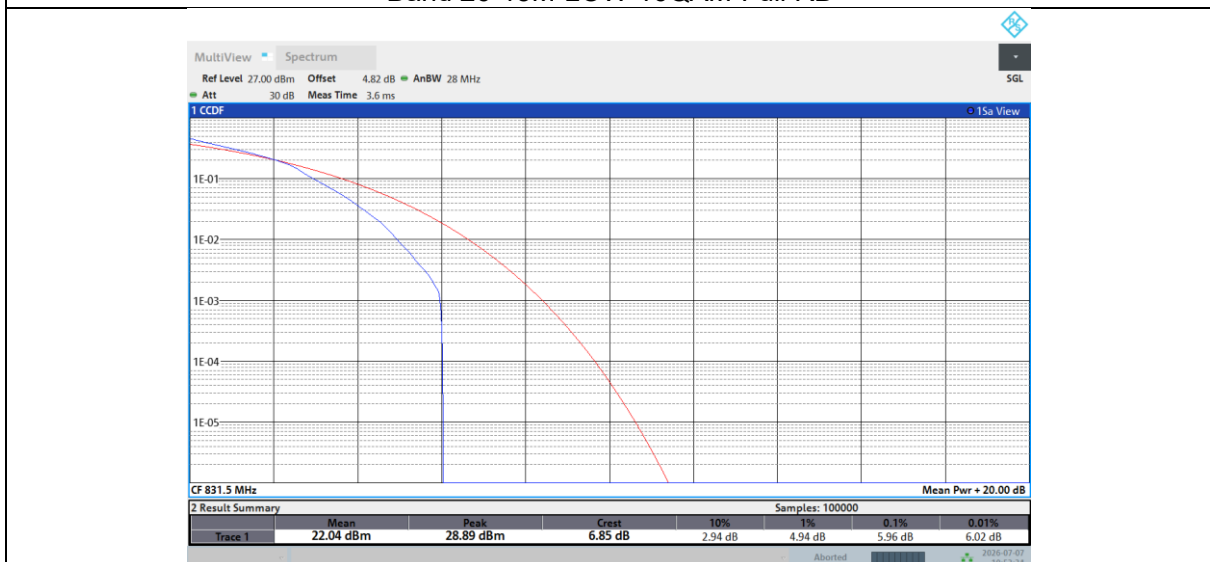
Test Graphs



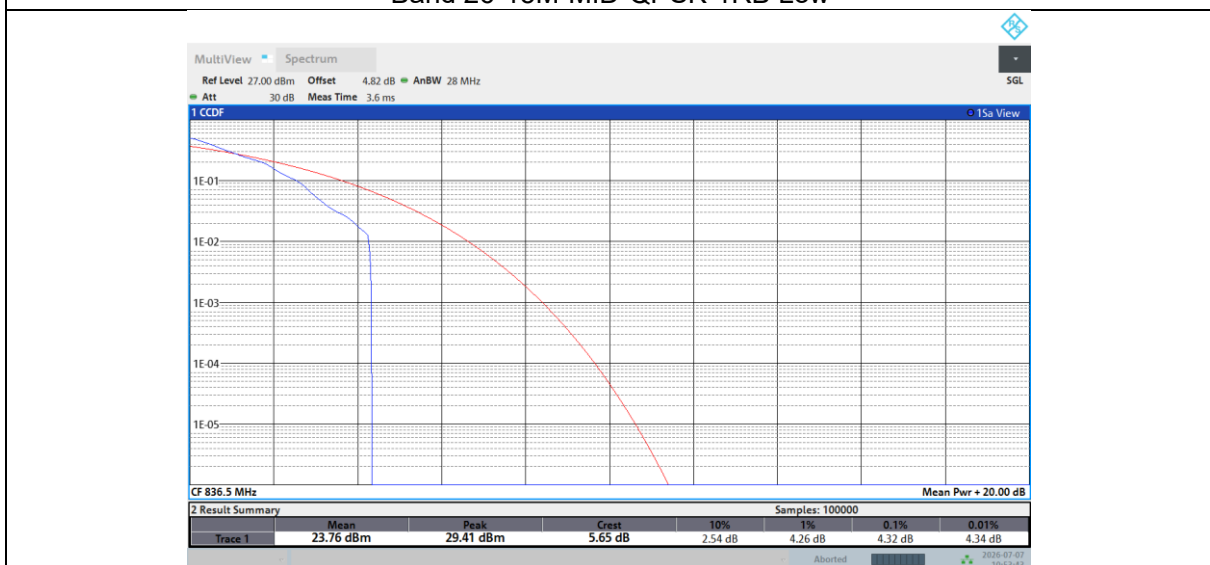
Test Report No.: RF260714B001



Band 26-15M-LOW-16QAM-Full RB



Band 26-15M-MID-QPSK-1RB Low



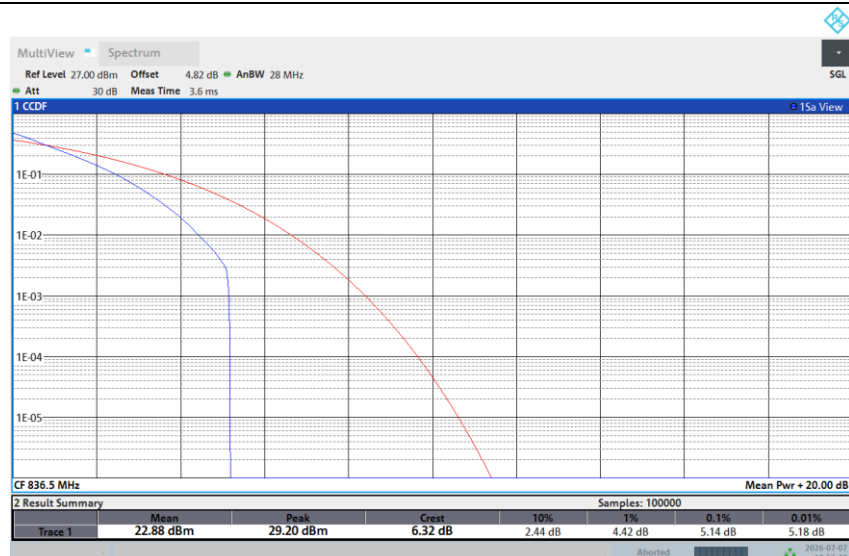
BOOMWAVE TEST (SHENZHEN)
CO., LTD.

Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan
4th Road, Chiwan Community, Zhaoshang Street,
Nanshan District, Shenzhen, Guangdong, P.R. CHINA

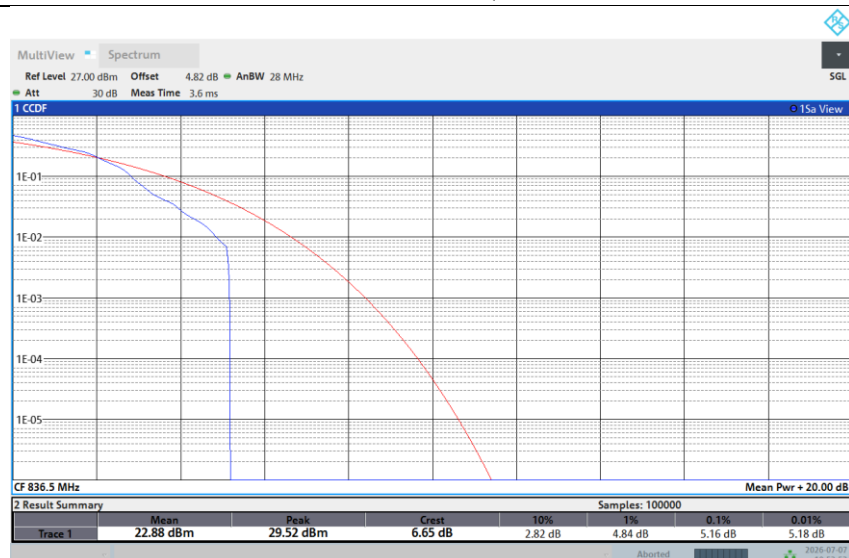
Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com

Test Report No.: RF260714B001

Band 26-15M-MID-QPSK-Full RB

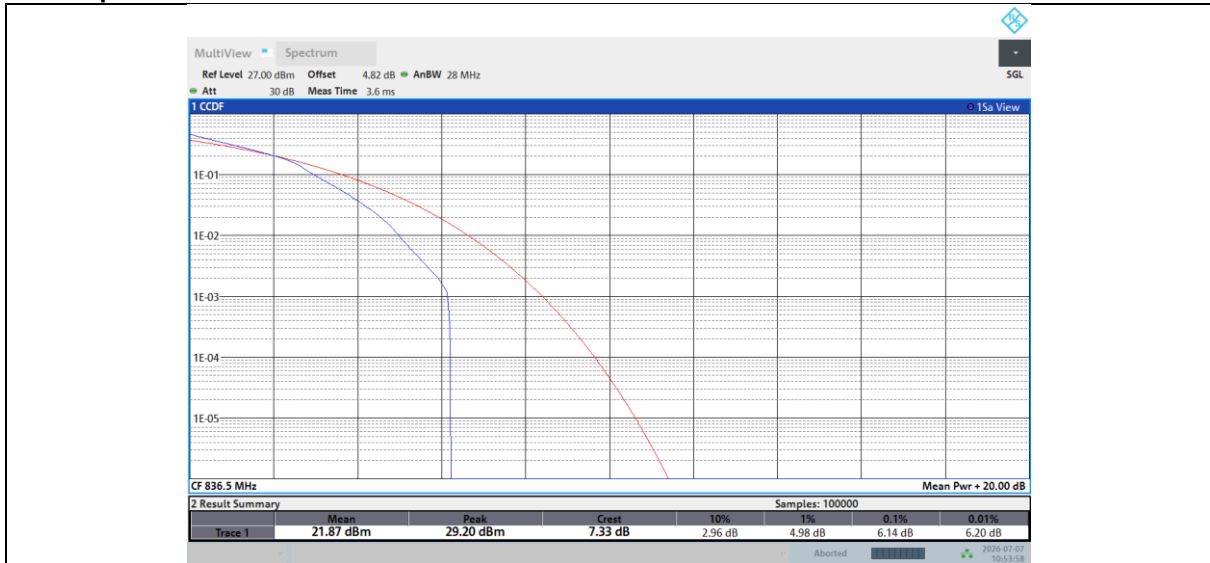


Band 26-15M-MID-16QAM-1RB Low

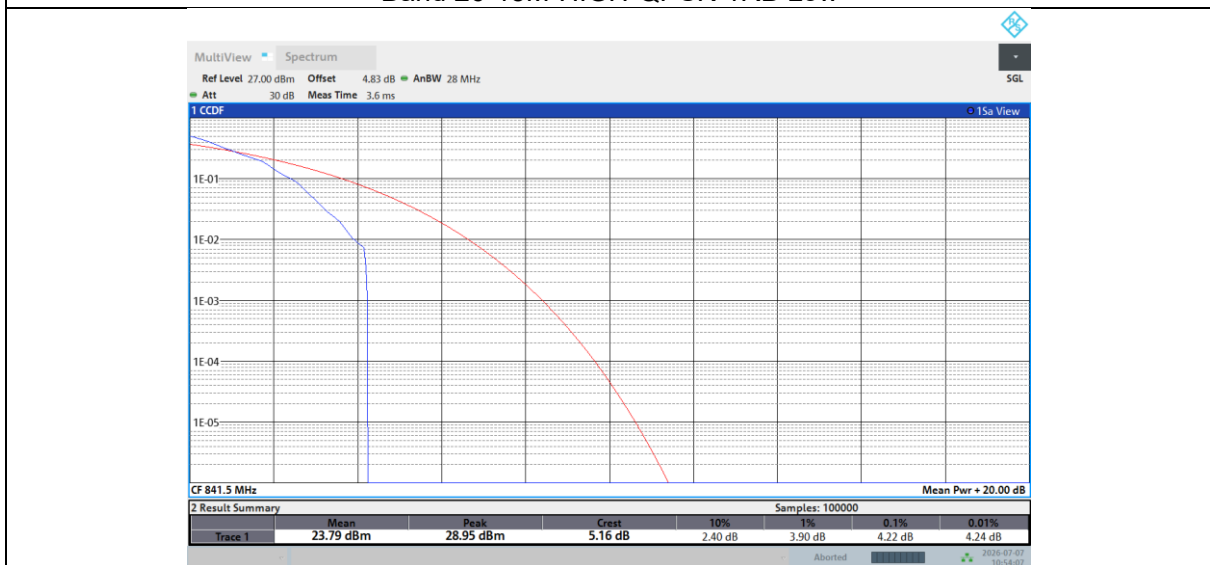


Band 26-15M-MID-16QAM-Full RB

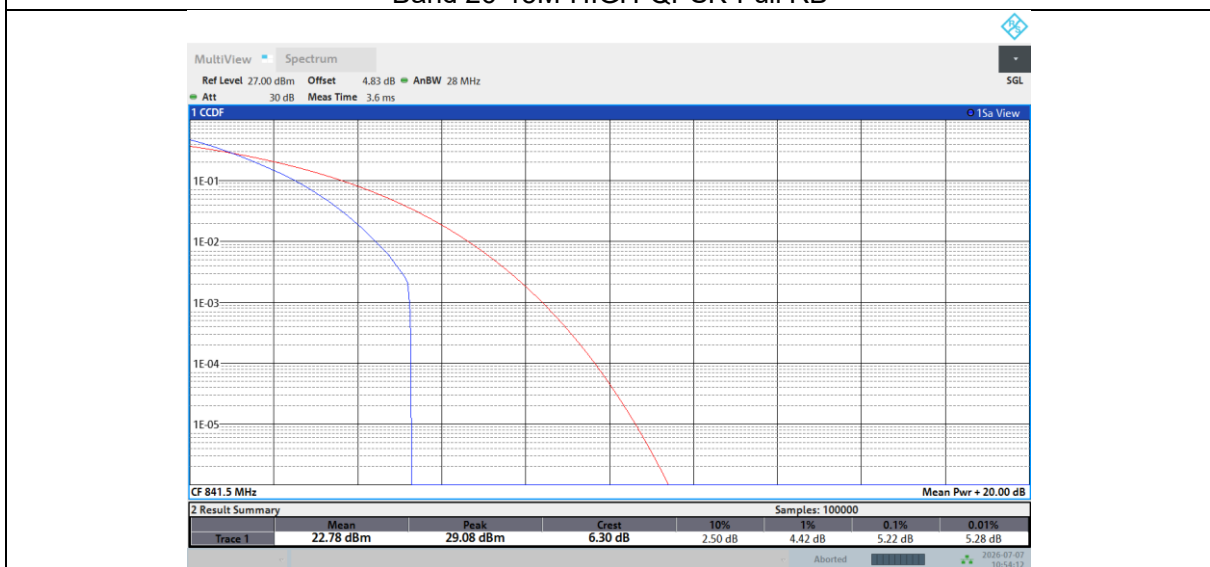
Test Report No.: RF260714B001



Band 26-15M-HIGH-QPSK-1RB Low

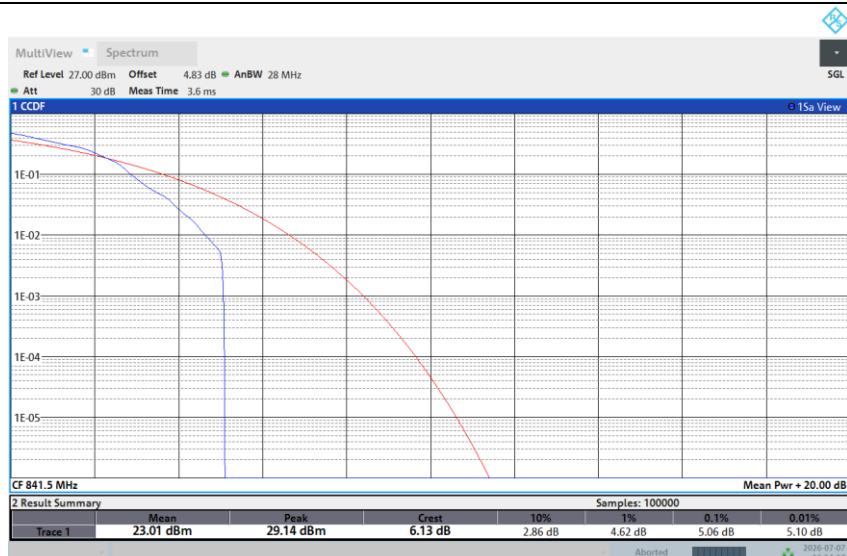


Band 26-15M-HIGH-QPSK-Full RB

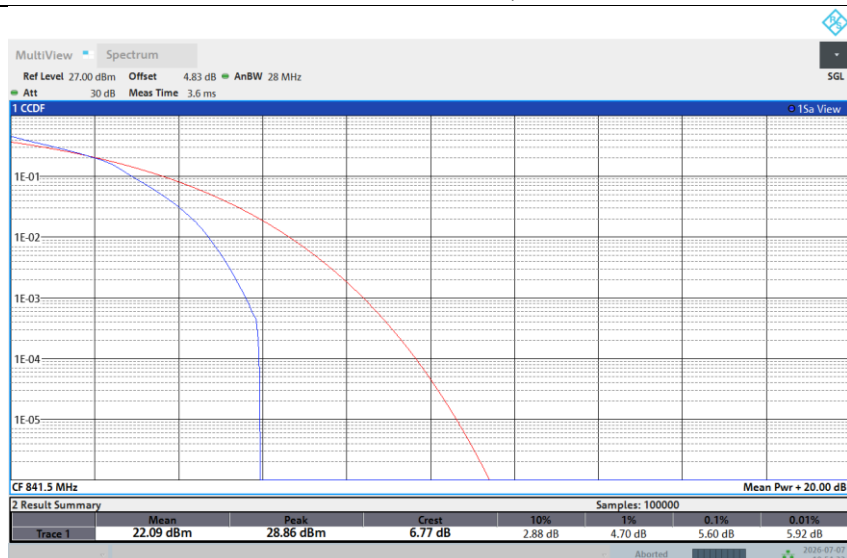


Test Report No.: RF260714B001

Band 26-15M-HIGH-16QAM-1RB Low



Band 26-15M-HIGH-16QAM-Full RB



OCCUPIED BANDWIDTH

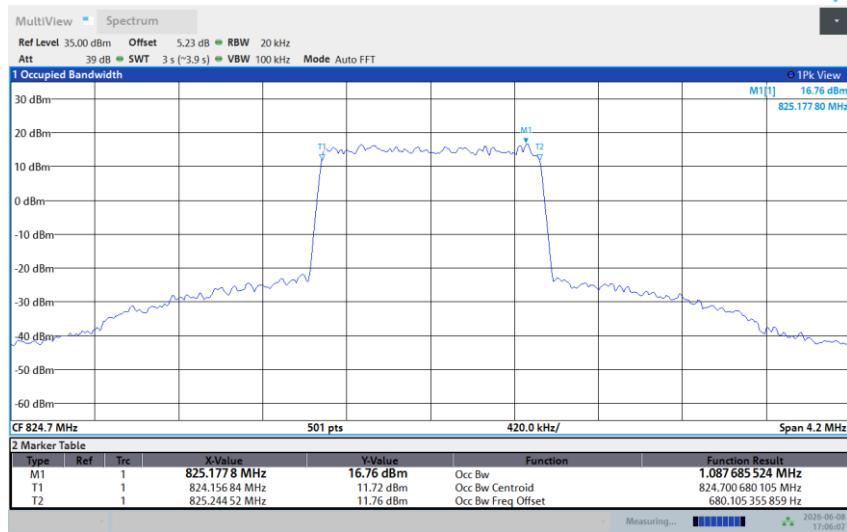
Test Result

Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth(MHz)	Verdict
1.4MHz	QPSK	26797	Full RB	1.088	PASS
1.4MHz	16QAM	26797	Full RB	1.083	PASS
1.4MHz	QPSK	26915	Full RB	1.082	PASS
1.4MHz	16QAM	26915	Full RB	1.086	PASS
1.4MHz	QPSK	27033	Full RB	1.083	PASS
1.4MHz	16QAM	27033	Full RB	1.081	PASS
3MHz	QPSK	26805	Full RB	2.694	PASS
3MHz	16QAM	26805	Full RB	2.689	PASS
3MHz	QPSK	26915	Full RB	2.695	PASS
3MHz	16QAM	26915	Full RB	2.688	PASS
3MHz	QPSK	27025	Full RB	2.692	PASS
3MHz	16QAM	27025	Full RB	2.686	PASS
5MHz	QPSK	26815	Full RB	4.498	PASS
5MHz	16QAM	26815	Full RB	4.481	PASS
5MHz	QPSK	26915	Full RB	4.484	PASS
5MHz	16QAM	26915	Full RB	4.495	PASS
5MHz	QPSK	27015	Full RB	4.477	PASS
5MHz	16QAM	27015	Full RB	4.483	PASS
10MHz	QPSK	26840	Full RB	8.944	PASS
10MHz	16QAM	26840	Full RB	4.948	PASS
10MHz	QPSK	26915	Full RB	8.934	PASS
10MHz	16QAM	26915	Full RB	4.931	PASS
10MHz	QPSK	26990	Full RB	8.928	PASS
10MHz	16QAM	26990	Full RB	4.962	PASS
15MHz	QPSK	26865	Full RB	13.486	PASS
15MHz	16QAM	26865	Full RB	5.273	PASS
15MHz	QPSK	26915	Full RB	13.446	PASS
15MHz	16QAM	26915	Full RB	5.438	PASS
15MHz	QPSK	26965	Full RB	13.489	PASS
15MHz	16QAM	26965	Full RB	5.328	PASS

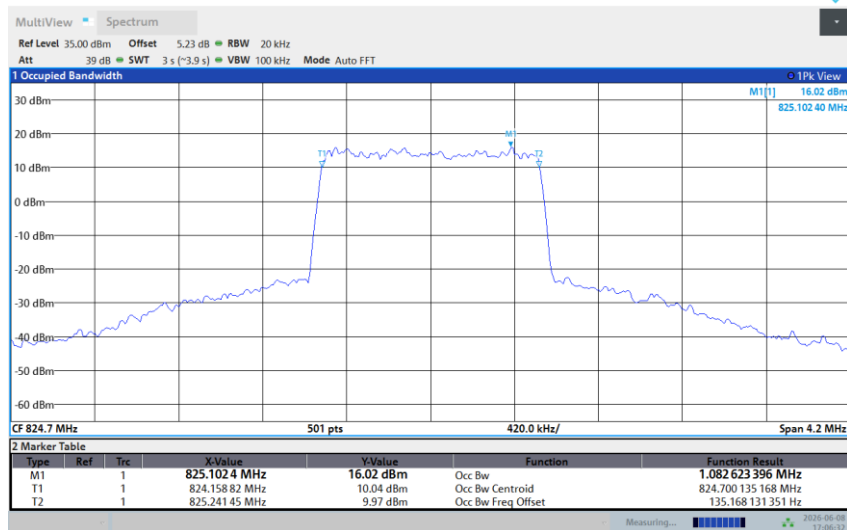
Test Report No.: RF260714B001

Test Graphs

Band 26-1.4M-Low-QPSK-Full RB

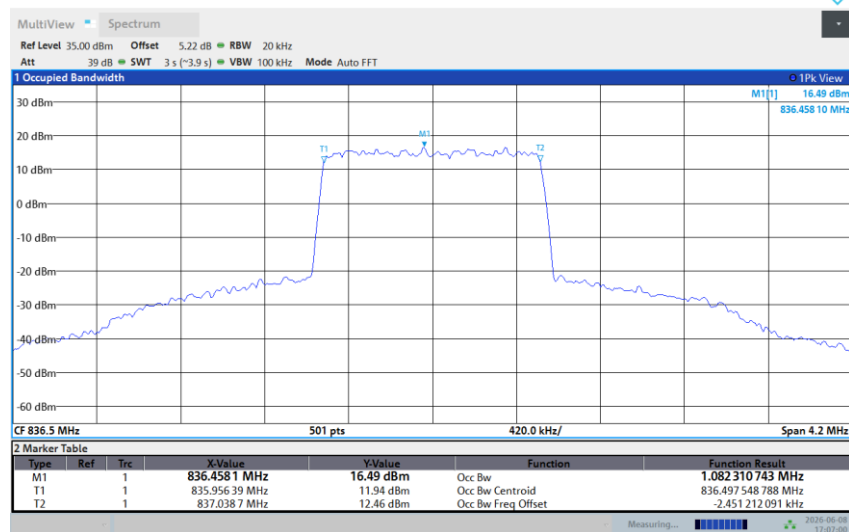


Band 26-1.4M-Low-16QAM-Full RB

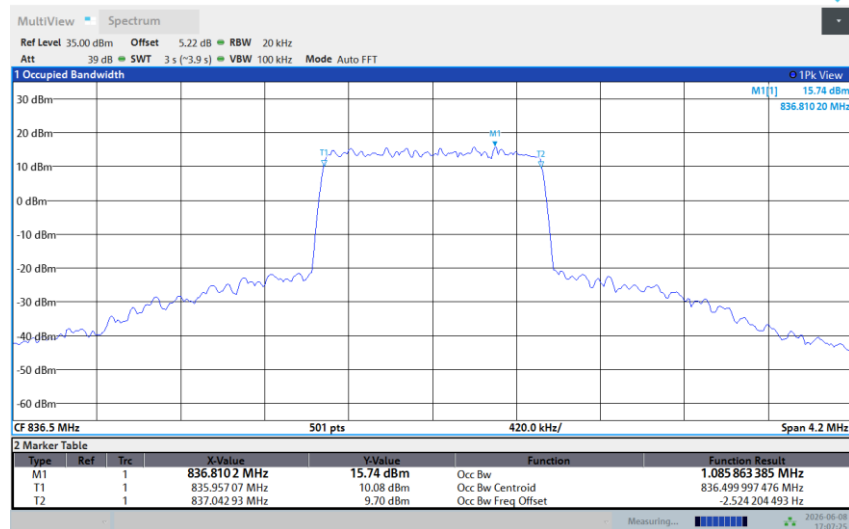


Band 26-1.4M-Mid-QPSK-Full RB

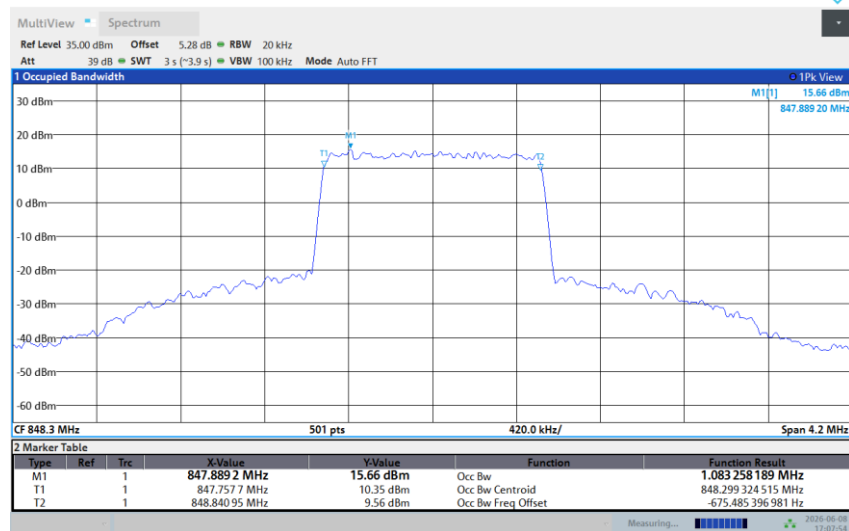
Test Report No.: RF260714B001



Band 26-1.4M-Mid-16QAM-Full RB



Band 26-1.4M-High-QPSK-Full RB



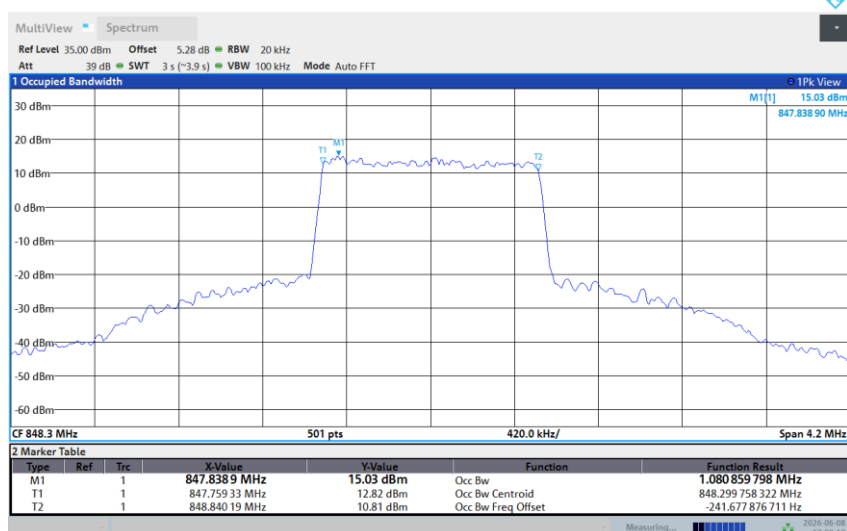
BOOMWAVE TEST (SHENZHEN)
CO., LTD.

Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan
4th Road, Chiwan Community, Zhaoshang Street,
Nanshan District, Shenzhen, Guangdong, P.R. CHINA

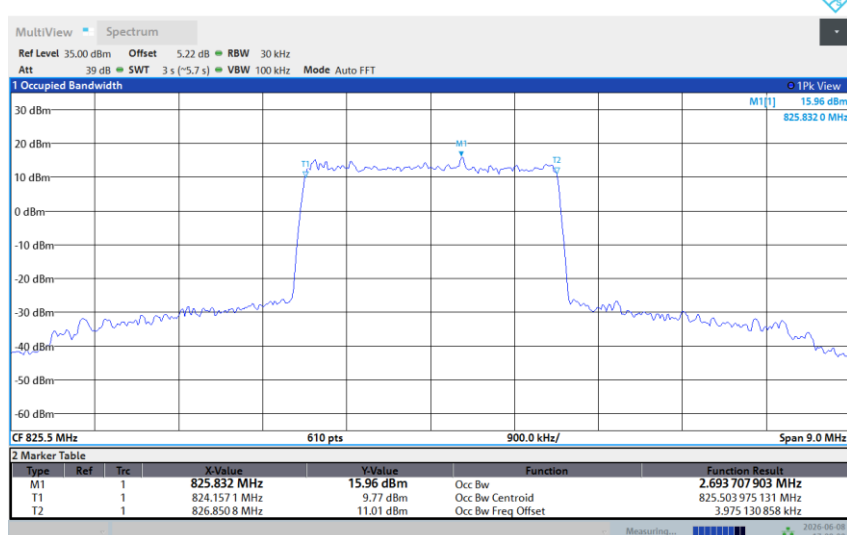
Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com

Test Report No.: RF260714B001

Band 26-1.4M-High-16QAM-Full RB



Band 26-3M-Low-QPSK-Full RB



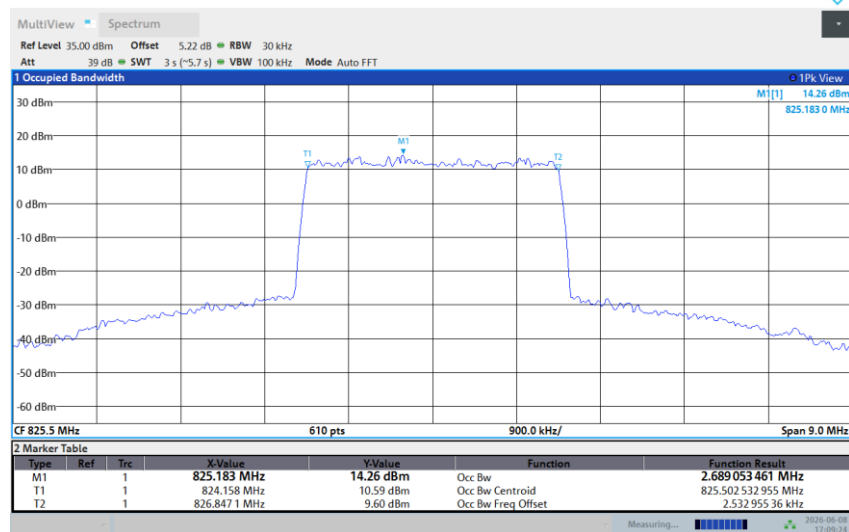
Band 26-3M-Low-16QAM-Full RB

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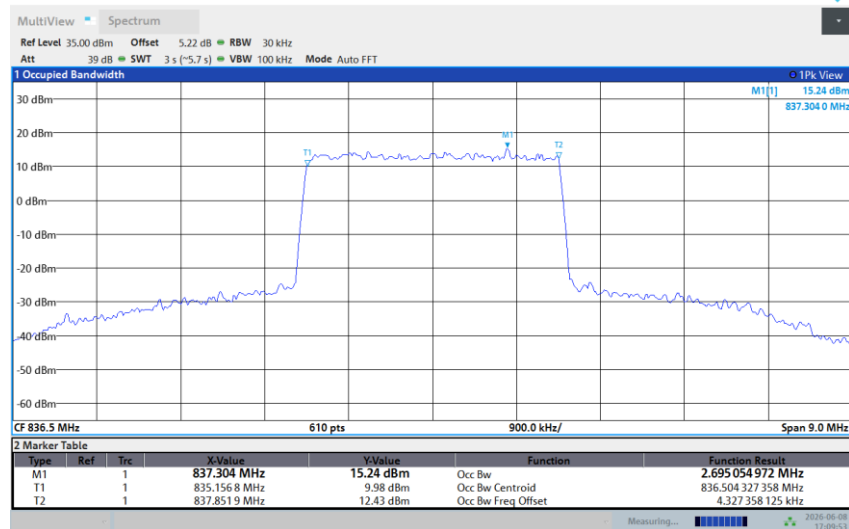
Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan
4th Road, Chiwan Community, Zhaoshang Street,
Nanshan District, Shenzhen, Guangdong, P.R. CHINA

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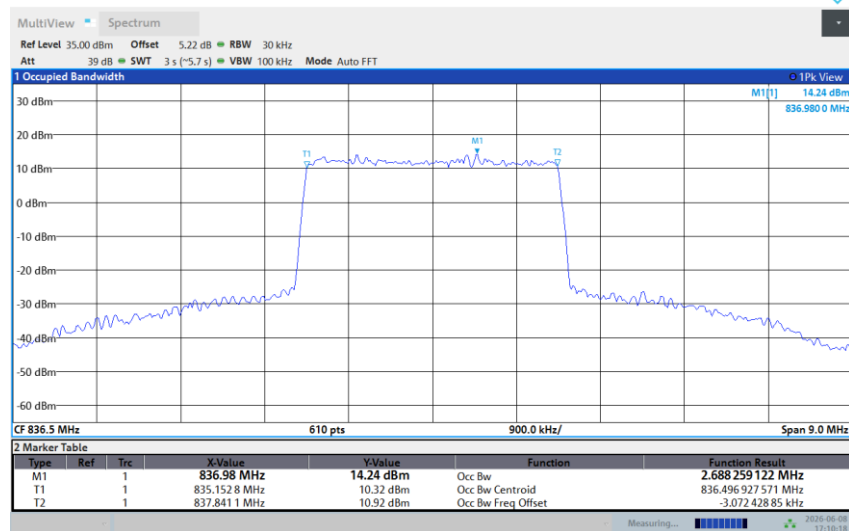
Test Report No.: RF260714B001



Band 26-3M-Mid-QPSK-Full RB



Band 26-3M-Mid-16QAM-Full RB



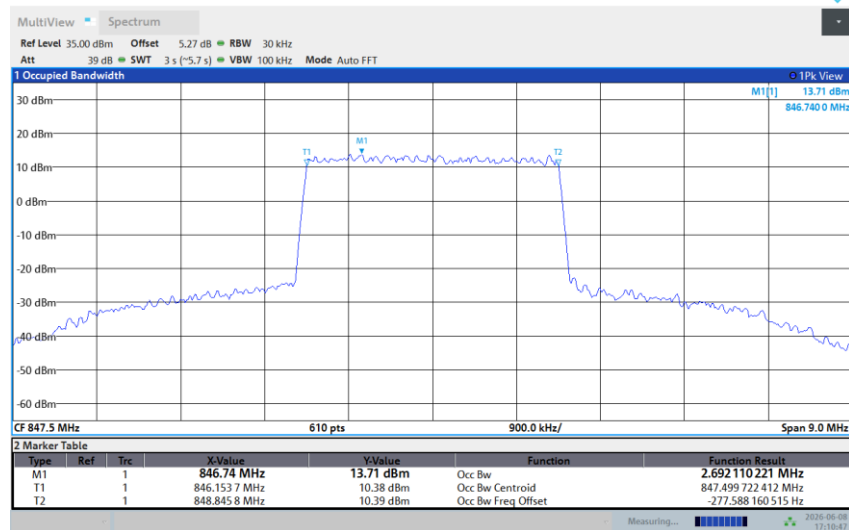
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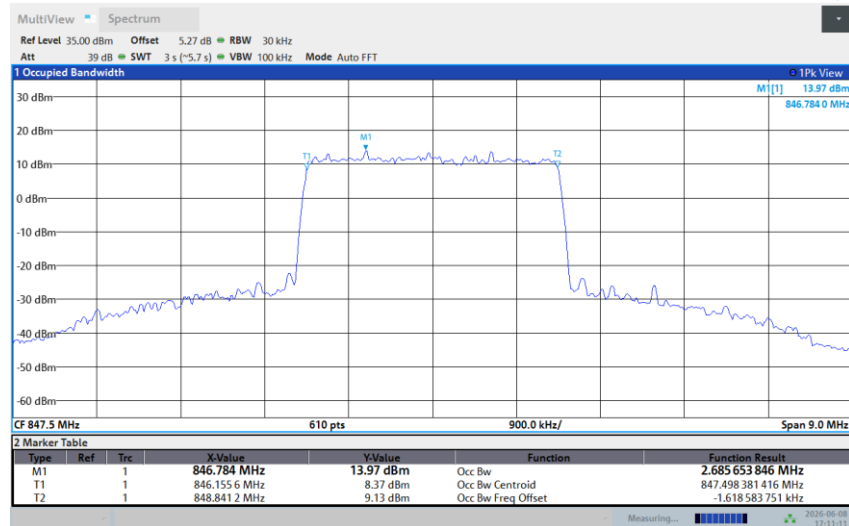
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Email:shimin.wang@boomwavelab.com

Test Report No.: RF260714B001

Band 26-3M-High-QPSK-Full RB



Band 26-3M-High-16QAM-Full RB



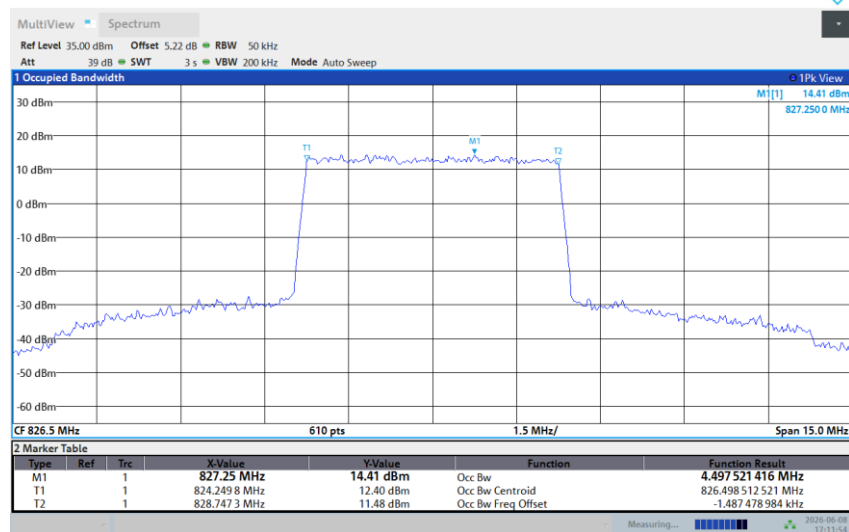
Band 26-5M-Low-QPSK-Full RB

BOOMWAVE TEST (SHENZHEN)
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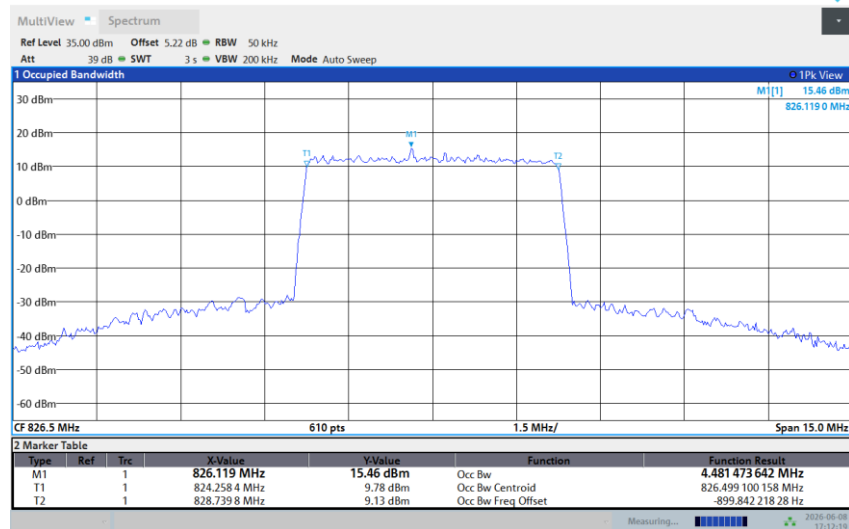
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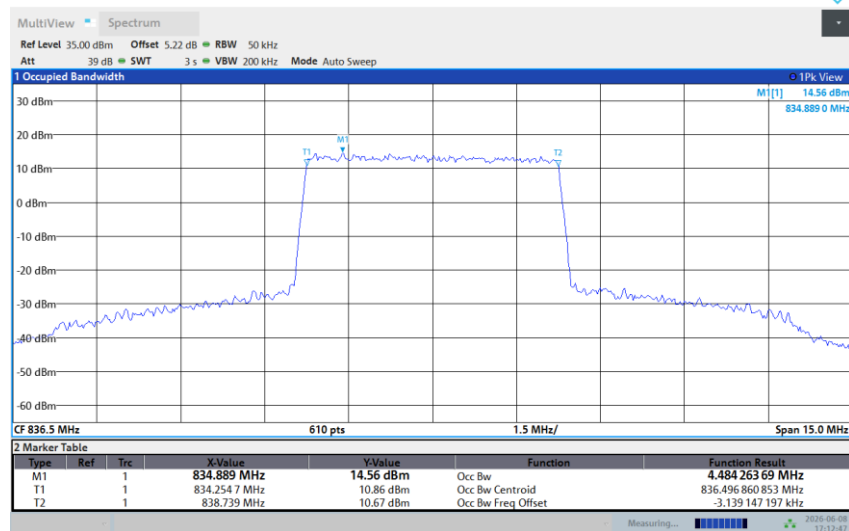
Test Report No.: RF260714B001



Band 26-5M-Low-16QAM-Full RB



Band 26-5M-Mid-QPSK-Full RB



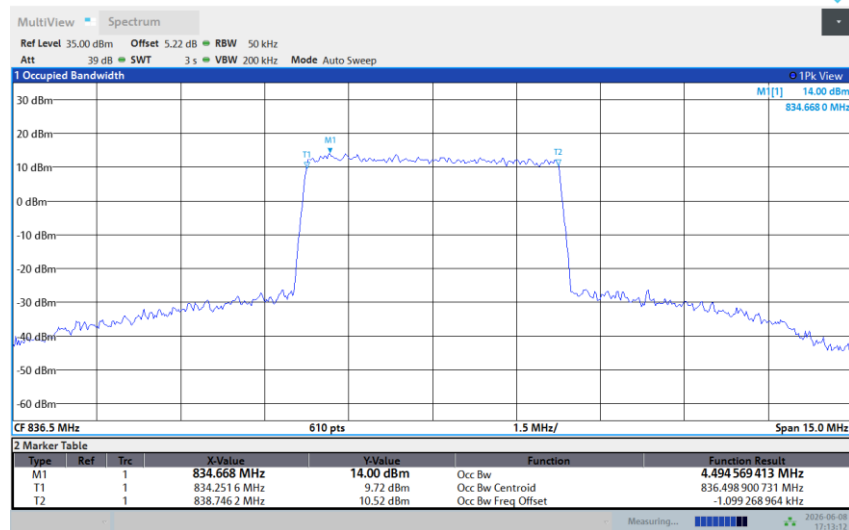
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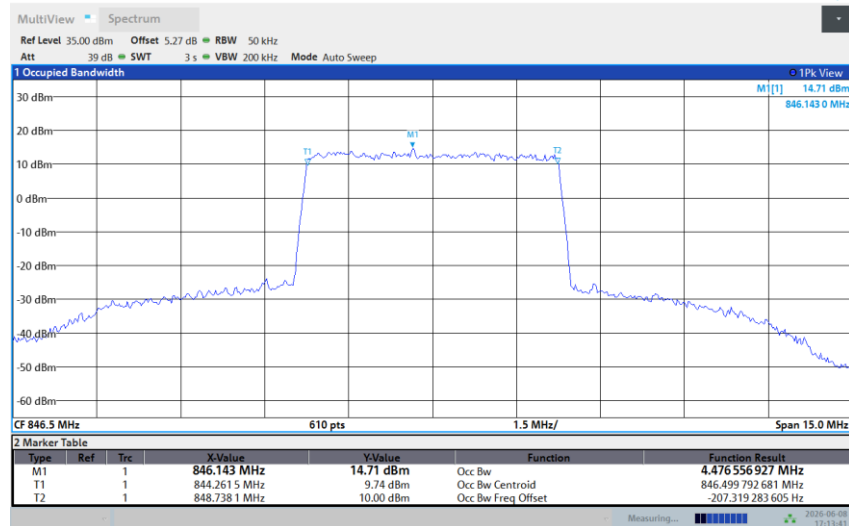
Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com

Test Report No.: RF260714B001

Band 26-5M-Mid-16QAM-Full RB

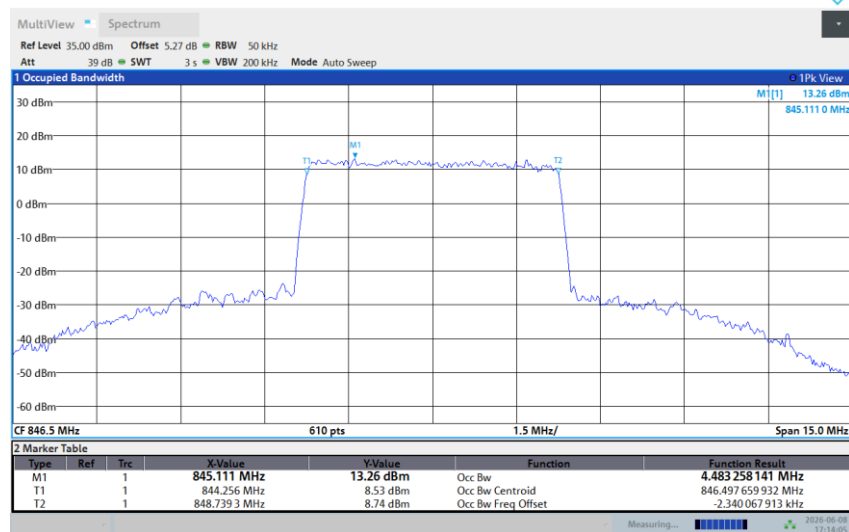


Band 26-5M-High-QPSK-Full RB

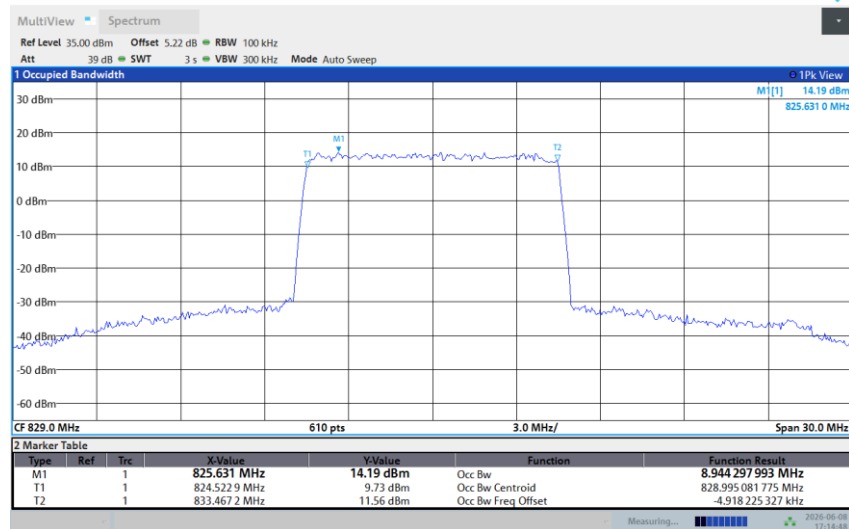


Band 26-5M-High-16QAM-Full RB

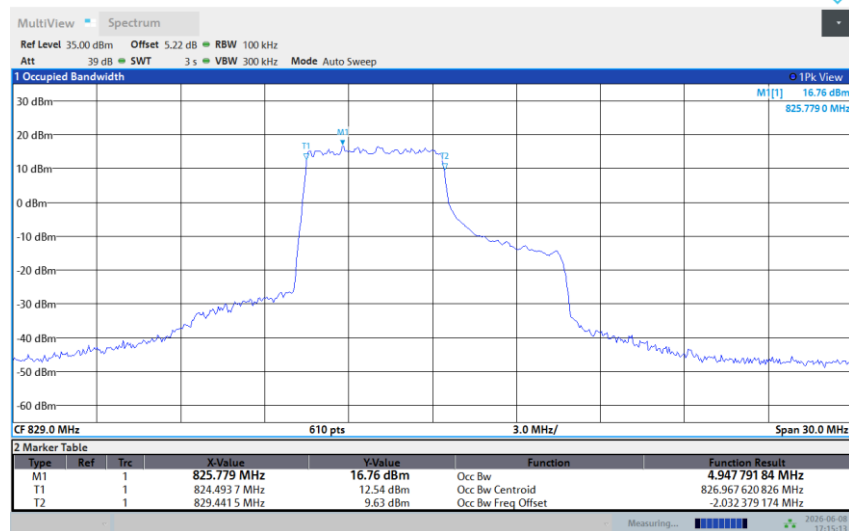
Test Report No.: RF260714B001



Band 26-10M-Low-QPSK-Full RB



Band 26-10M-Low-16QAM-Full RB



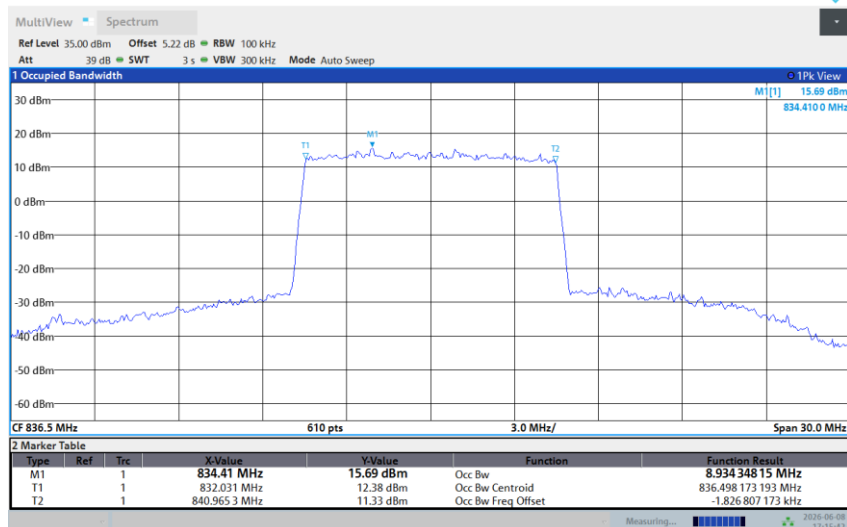
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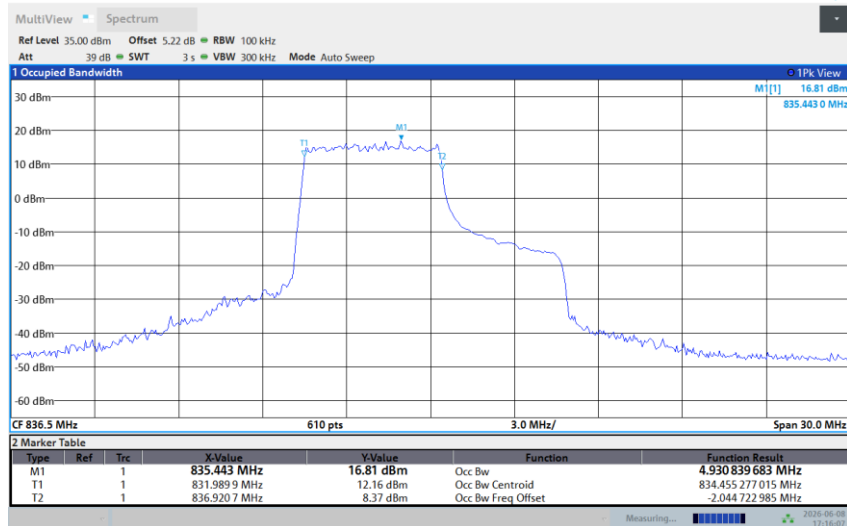
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Band 26-10M-Mid-QPSK-Full RB

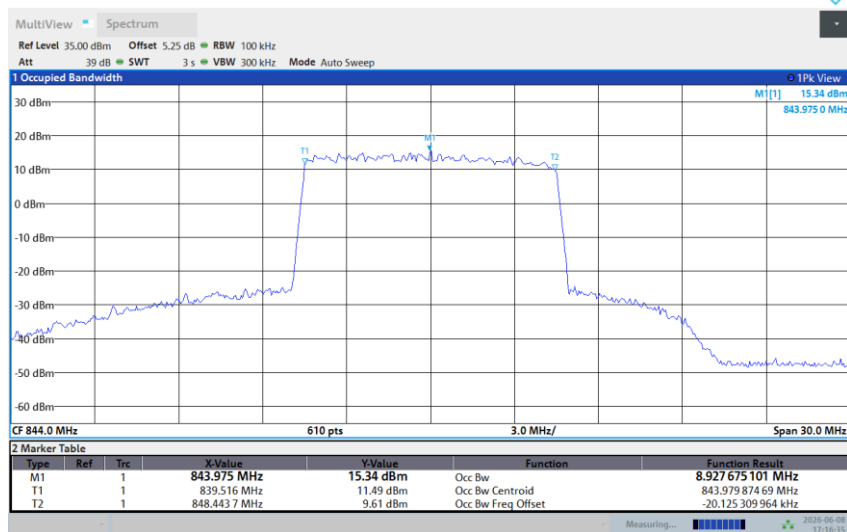


Band 26-10M-Mid-16QAM-Full RB

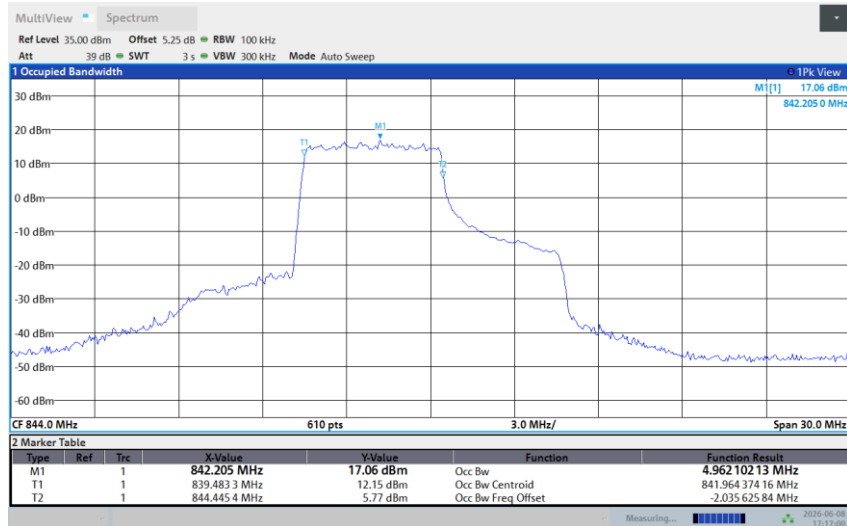


Band 26-10M-High-QPSK-Full RB

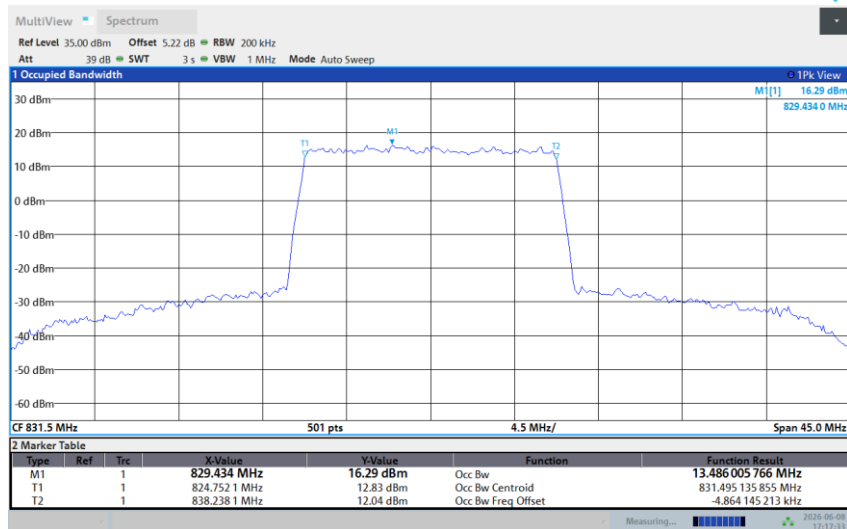
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Band 26-10M-High-16QAM-Full RB



Band 26-15M-Low-QPSK-Full RB



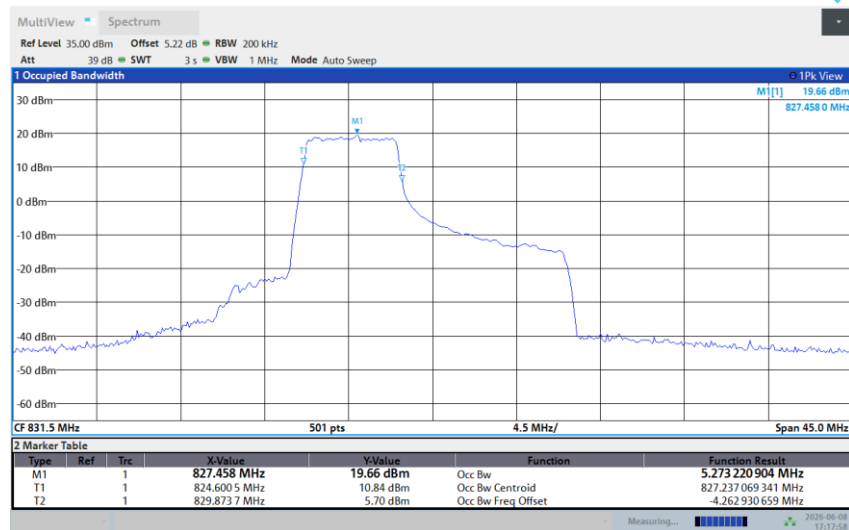
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Nanshan District, Shenzhen, Guangdong, P.R. CHINA

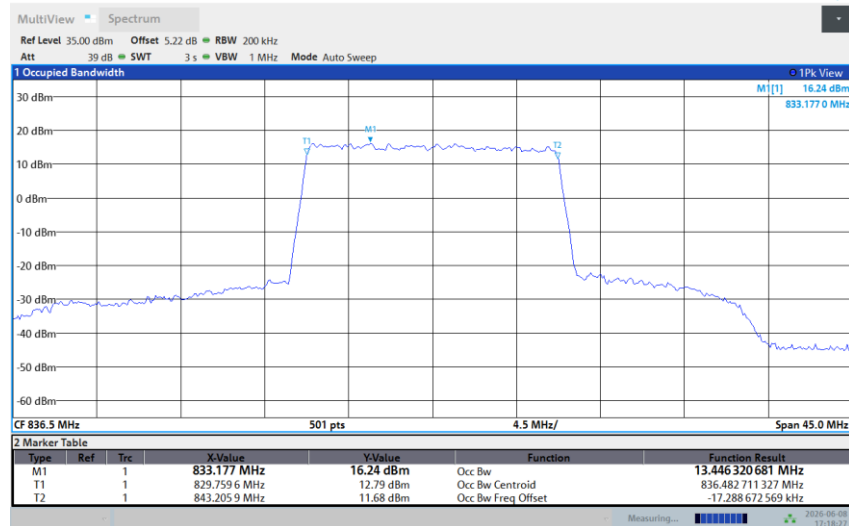
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Band 26-15M-Low-16QAM-Full RB



Band 26-15M-Mid-QPSK-Full RB



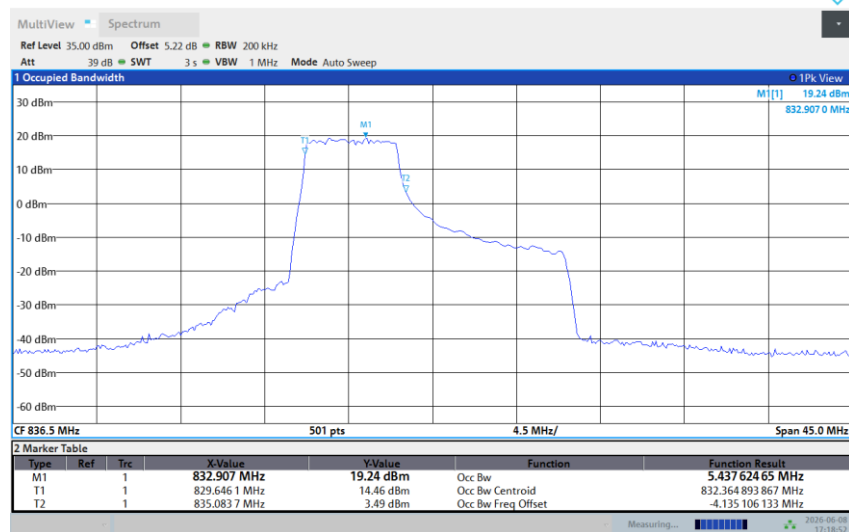
Band 26-15M-Mid-16QAM-Full RB

BOOMWAVE TEST (SHENZHEN)
CO., LTD.

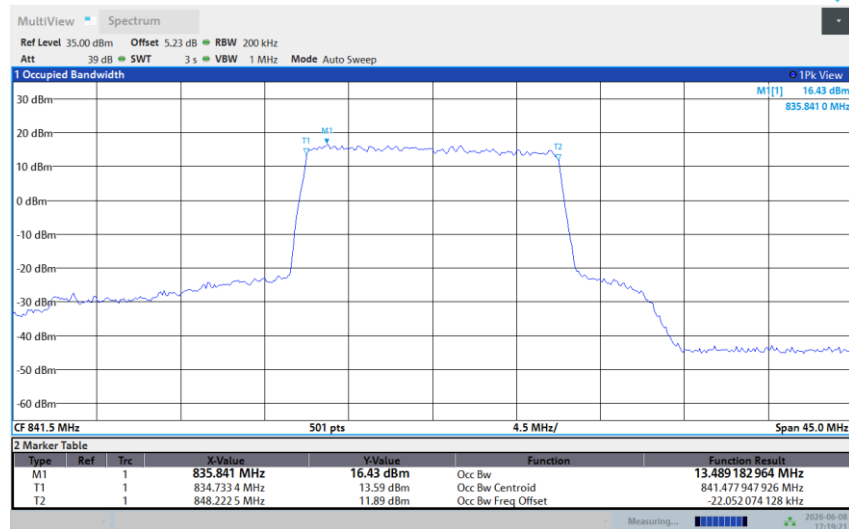
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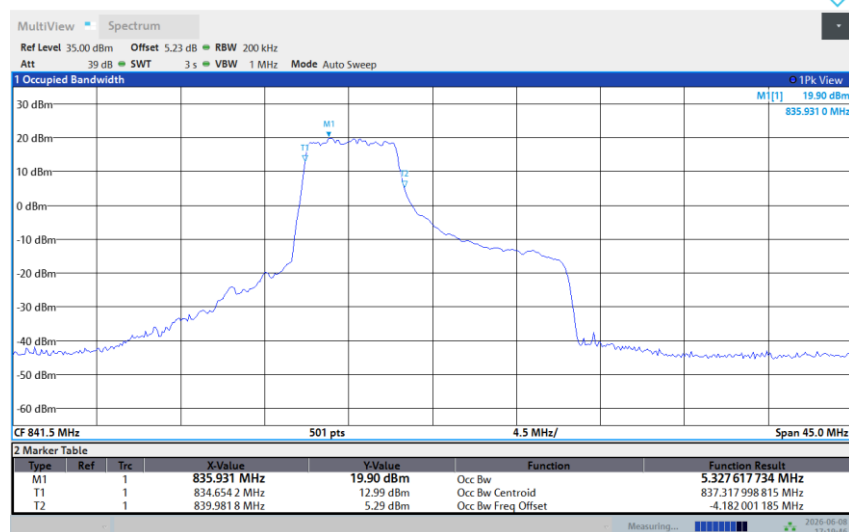
Test Report No.: RF260714B001



Band 26-15M-High-QPSK-Full RB



Band 26-15M-High-16QAM-Full RB



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