

FCC TEST REPORT

(PART 90)

Applicant:	Juniper Systems, Inc.
Address:	1132 W 1700 N Logan, UT 84321 USA

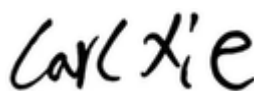
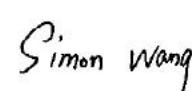
Manufacturer or Supplier	Juniper Systems, Inc.
Address	1132 W 1700 N Logan, UT 84321 USA
Product	ALTA
Brand Name	Juniper Systems
Model Name	ALT1 / FC-8000 / SHC8000
FCC ID	VSFALT1
Date of tests	Dec. 30, 2025 - Jul. 10, 2026

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

☒ FCC Part 90, Subpart R, S
☒ ANSI/TIA/EIA-603- D
☒ FCC Part 2

☒ ANSI/TIA/EIA-603-E
☒ 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. 10, 2026	Date: Jul. 10, 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.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF260714B011	Original release	Jul. 10, 2026

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

LTE Band 14

Ref Std.Clause	Test Items	Result (Pass/Fail)	Remark
§2.1046	Conducted Output Power	Reporting only	-
-	Peak-to-Average Ratio	Reporting only	-
§2.1049	Occupied Bandwidth	Reporting only	-
§2.1053 §90.543(e)(2)	Conducted Band Edge Measurement	PASS	-
§2.1051 §90.210(n)	Emission Masks	PASS	-
§2.1053 §90.543(e)(3)	Conducted Spurious Emissions	PASS	-
§2.1055 §90.539(e)	Frequency Stability Temperature & Voltage	PASS	-
§2.1053 §90.543(e)(3) §90.543(f)	Radiated Spurious Emissions	PASS	Under limit 21.29dB at 1584.000MHz

LTE Band 26

The EUT has been tested according to the following specifications:

Ref Std.Clause	Test Items	Result (Pass/Fail)	Remark
§2.1046	Conducted Output Power	Reporting only	-
-	Peak-to-Average Ratio	Reporting only	-
§2.1049	Occupied Bandwidth	Reporting only	-

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§2.1053 § 90.691(a)	Conducted Band Edge Measurement	PASS	-
§2.1051 § 90.691(a)	Emission Masks	PASS	-
§2.1053 § 90.691(a)	Conducted Spurious Emissions	PASS	-
§2.1055 § 90.213	Frequency Stability Temperature & Voltage	PASS	-
§2.1053 §90.691	Radiated Spurious Emissions	PASS	Under limit 21.29dB at 1584.000MHz

***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

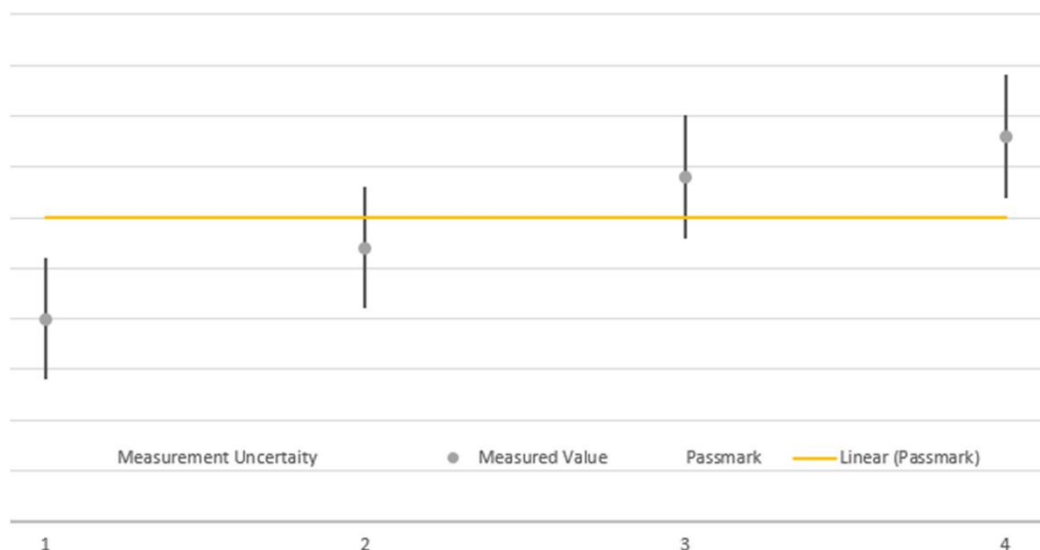
The FCC Site Registration No. is 646781; The Designation No. is CN1429.

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	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.66dB
Radiated emissions	9KHz ~ 30MHz	2.68dB
	30MHz ~ 1GHz	3.26dB
	1GHz ~ 18GHz	4.48dB
	18GHz ~ 40GHz	4.12dB

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.

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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
5G Wireless Test Platform	StarPoint	SP9500-20388	SP9500-20698	2025/1/17	2027/1/16
RF Control Unit	Tonscend	JS0806-1	23K80610751	2025/1/16	2027/1/15
MXA Signal Analyzer	KEYSIGHT	N9020B	MY60110626	2025/7/1	2027/6/30

NOTE:

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

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	ALTA	
BRAND NAME	Juniper Systems	
MODEL NAME	ALT1 / FC-8000 / SHC8000	
NOMINAL VOLTAGE	3.7Vdc	
MODULATION TECHNOLOGY	LTE	QPSK, 16QAM, 64QAM, 256QAM
FREQUENCY RANGE	LTE Band 14 Channel Bandwidth: 5MHz	790.5MHz ~ 795.5MHz
	LTE Band 14 Channel Bandwidth: 10MHz	793MHz
	LTE Band 26 (Channel Bandwidth: 1.4MHz)	814.7MHz ~ 823.3MHz
	LTE Band 26 (Channel Bandwidth: 3MHz)	815.5MHz ~ 822.5MHz
	LTE Band 26 (Channel Bandwidth: 5MHz)	816.5MHz ~ 821.5MHz
	LTE Band 26 (Channel Bandwidth: 10MHz)	819MHz
EMISSION DESIGNATOR	LTE Band 14 Channel Bandwidth: 5MHz	QPSK: 4M51G7D
		16QAM: 4M50W7D
		64QAM: 4M50W7D
		256QAM: 4M51W7D
	LTE Band 14 Channel Bandwidth: 10MHz	QPSK: 8M94G7D
		16QAM: 8M94W7D
		64QAM: 8M92W7D
		256QAM: 8M94W7D
	LTE Band 26 (Channel Bandwidth: 1.4MHz)	QPSK: 1M10G7D
		16QAM: 1M10W7D
		64QAM: 1M10W7D
		256QAM: 1M10W7D
	LTE Band 26 (Channel Bandwidth: 3MHz)	QPSK: 2M71G7D
		16QAM: 2M71W7D
		64QAM: 2M71W7D
		256QAM: 2M70W7D
	LTE Band 26 (Channel Bandwidth: 5MHz)	QPSK: 4M50G7D
		16QAM: 4M50W7D
		64QAM: 4M49W7D
		256QAM: 4M50W7D
	LTE Band 26 (Channel Bandwidth: 10MHz)	QPSK: 9M00G7D
		16QAM: 8M97W7D

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		64QAM: 8M96W7D
		256QAM: 8M97W7D
MAX. EIRP POWER	LTE Band 14 Channel Bandwidth: 5MHz	89.54 mW
	LTE Band 14 Channel Bandwidth: 10MHz	90.36 mW
	LTE Band 26 (Channel Bandwidth: 1.4MHz)	147.91 mW
	LTE Band 26 (Channel Bandwidth: 3MHz)	145.88 mW
	LTE Band 26 (Channel Bandwidth: 5MHz)	143.55 mW
	LTE Band 26 (Channel Bandwidth: 10MHz)	148.25 mW
ANTENNA GAIN	☒ Provided by client	
	LTE B14	ANT0:-3.12dBi ANT2:-4.4dBi
	LTE B26	ANT0:-1.14dBi ANT2:-1.82dBi
ANTENNA TYPE	Fixed Internal Antenna	
HW VERSION	DVT2	
SW VERSION	JP_W.00.00.0128.T1_USERDEBUG	
I/O PORTS	Refer to user's manual	
DATA CABLE	N/A	
EXTREME TEMPERATURE	-29°C to 63°C	
EXTREME VOLTAGE	3.4V to 4.2V	

NOTE:

- *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.
- 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 two receivers.

MODULATION MODE	TX FUNCTION
LTE	1TX/2RX

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

5. List of Accessory:

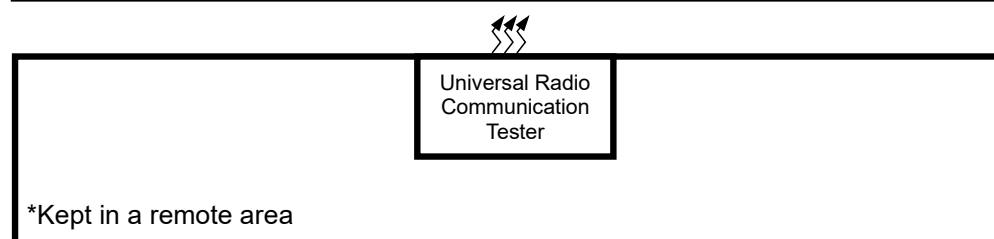
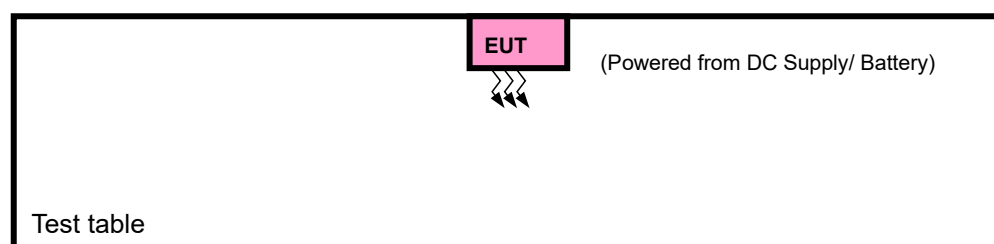
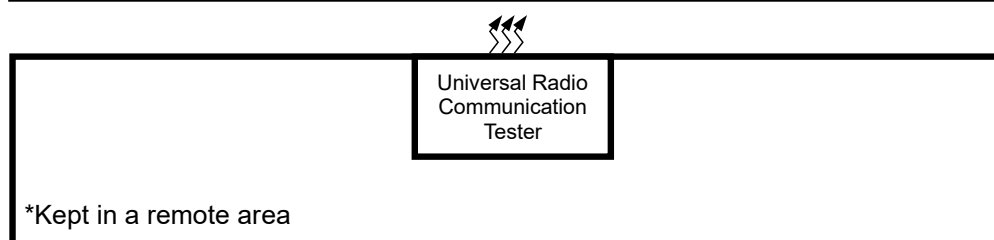
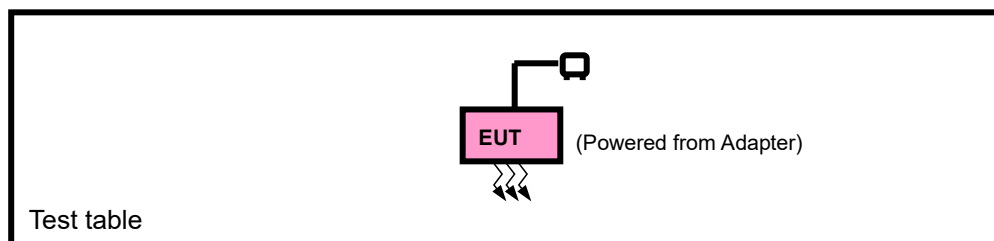
ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
Battery 1	NA	Fullymax Battery Co., Ltd.	FBC442760	3.7Vdc, 700mAh
Battery 2	NA	Fullymax Battery Co., Ltd.	FBC6570106	3.8Vdc, 5700mAh

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Battery 3	NA	Fullymax Battery Co., Ltd.	FBC8570106	3.7Vdc, 15000mAh
AC Adapter 1	Juniper	SHENZHEN MERRYKING ELECTRONICS CO.,LTD.	MK-P301EXC	I/P: 100-240Vac, 800mA, O/P: 12Vdc,2500mA
USB Cable 1	CONSHARE	CONSHARE	80.10.320002	1.0 meter

2.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST



2.3 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	DC source	LONG WEI	PS-6403D	010934269	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A

2.4 DESCRIPTION OF TEST MODES

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/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 + Adapter + USB Cable with LTE link
B	EUT + DC Supply with LTE link

LTE BAND 14 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	ERP	23305 to 23355	23305, 23330, 23355	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset
		23330	23330	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset
B	FREQUENCY STABILITY	23330	23330	10MHz	QPSK	50 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	23305 to 23355	23305, 23330, 23355	5MHz	QPSK, 16QAM, 64QAM, 256QAM	25 RB / 0 RB Offset
		23330	23330	10MHz	QPSK, 16QAM, 64QAM, 256QAM	50 RB / 0 RB Offset
A	PEAK TO AVERAGE RATIO	23305 to 23355	23305, 23330, 23355	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset 25 RB / 0 RB Offset
		23330	23330	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset
A	BAND EDGE	23305 to 23355	23305	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset 25 RB / 0 RB Offset
			23355	5MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 24 RB Offset 25 RB / 0 RB Offset
		23300	23330	10MHz	QPSK, 16QAM, 64QAM, 256QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset 1 RB / 49 RB Offset /
A	CONDUCTED EMISSION	23305 to 23355	23305, 23330, 23355	5MHz	QPSK	1 RB / 0 RB Offset
		23330	23330	10MHz	QPSK	1 RB / 0 RB Offset

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A	RADIATED EMISSION	23305 to 23355	23305, 23330, 23355	5MHz	QPSK	1 RB / 0 RB Offset
		23330	23330	10MHz	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.

LTE BAND 26 MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
A	ERP	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
		26705 to 26775	26705, 26740, 26775	3MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
		26715 to 26765	26715, 26740, 26765	5MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
		26740	26740	10MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
B	FREQUENCY STABILITY	26740	26740	10MHz	QPSK	50 RB / 0 RB Offset
A	OCCUPIED BANDWIDTH	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,16QAM,64QAM,256QAM	6 RB / 0 RB Offset
		26705 to 26775	26705, 26740, 26775	3MHz	QPSK,16QAM,64QAM,256QAM	15 RB / 0 RB Offset
		26715 to 26765	26715, 26740, 26765	5MHz	QPSK,16QAM,64QAM,256QAM	25 RB / 0 RB Offset
		26740	26740	10MHz	QPSK,16QAM,64QAM,256QAM	50 RB / 0 RB Offset
A	PEAK TO AVERAGE RATIO	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset
		26705 to 26775	26705, 26740, 26775	3MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset
		26715 to 26765	26715, 26740, 26765	5MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset
		26740	26740	10MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset 50 RB / 0 RB Offset
A	BAND EDGE	26697 to 26783	26697	1.4MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset 6 RB / 0 RB Offset
			26783	1.4MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 5 RB Offset 6 RB / 0 RB Offset
		26705 to 26775	26705	3MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset 15 RB / 0 RB Offset
			26775	3MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 14 RB Offset 15 RB / 0 RB Offset
		26715 to 26765	26715	5MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset 25 RB / 0 RB Offset
		26715 to 26765	26715	5MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset 25 RB / 0 RB Offset

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CO., LTD.

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			26765	5MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 24 RB Offset
						25 RB / 0 RB Offset
		26740	26740	10MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 0 RB Offset
						50 RB / 0 RB Offset
			26740	10MHz	QPSK,16QAM,64QAM,256QAM	1 RB / 49 RB Offset
						50 RB / 0 RB Offset
A	CONDUCTED EMISSION	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK	1 RB / 0 RB Offset
		26705 to 26775	26705, 26740, 26775	3MHz	QPSK	1 RB / 0 RB Offset
		26715 to 26765	26715, 26740, 26765	5MHz	QPSK	1 RB / 0 RB Offset
		26740	26740	10MHz	QPSK	1 RB / 0 RB Offset
A	RADIATED EMISSION	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK	1 RB / 0 RB Offset
		26705 to 26775	26740	3MHz	QPSK	1 RB / 0 RB Offset
		26715 to 26765	26740	5MHz	QPSK	1 RB / 0 RB Offset
		26740	26740	10MHz	QPSK	1 RB / 0 RB Offset

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

TEST CONDITION			
TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
EIRP(ERP)	24deg. C, 60%RH	DC 3.7V By Battery	Carl Xie
FREQUENCY STABILITY	24deg. C, 61%RH	DC 3.4/3.7/4.2V By DC Supply	Alan Yu
OCCUPIED BANDWIDTH	24deg. C, 61%RH	DC 3.7V By Battery	Alan Yu
BAND EDGE	24deg. C, 61%RH	DC 3.7V By Battery	Alan Yu
CONDUCTED EMISSION	24deg. C, 61%RH	DC 3.7V By Battery	Alan Yu
RADIATED EMISSION	23deg. C, 70%RH	DC 3.7V By Battery	Carl Xie

2.5 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 90

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

LTE B14

47 CFR 90.542(a)(6)

Control stations and mobile stations transmitting in the 758–768 MHz band and the 788–798 MHz band are limited to 30 watts ERP.

47 CFR 90.542(a)(7)

Portable stations (hand-held devices) transmitting in the 758–768 MHz band and the 788–798 MHz band are limited to 3 watts ERP.

LTE B26:

Per FCC Part 90.635(a)(b)

The maximum output power of the transmitter for mobile stations is 100 watts (20 dBw).

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:

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

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

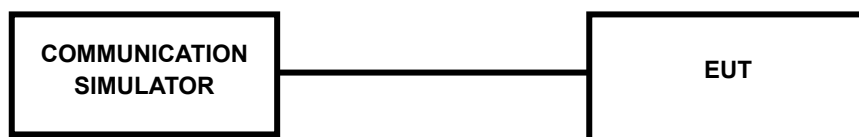
CONDUCTED POWER MEASUREMENT:

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

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3.1.3 TEST SETUP

CONDUCTED POWER MEASUREMENT:



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

Test Report No. : RF260714B011

3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

LTE Band 14 (Ant0)						
BW [MHz]	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel			23330	
		Frequency (MHz)			793	
10	QPSK	1	0		24.83	
		1	24		24.64	
		1	49		24.73	
		25	0		23.68	
		25	12		23.63	
		25	25		23.66	
		50	0		23.69	
	16QAM	1	0		24.02	
		1	24		23.61	
		1	49		23.95	
		25	0		22.73	
		25	12		22.68	
		25	25		22.69	
		50	0		22.70	
	64QAM	1	0		23.02	
		1	24		22.98	
		1	49		22.64	
		25	0		21.66	
		25	12		21.74	
		25	25		21.71	
		50	0		21.57	
	256QAM	1	0		19.72	
		1	24		19.58	
		1	49		19.78	
		25	0		19.72	
		25	12		19.68	
		25	25		19.88	
		50	0		19.64	
BW [MHz]	Modulation	Channel		23305	23330	23355
		Frequency (MHz)		790.5	793	795.5
5	QPSK	1	0	24.73	24.79	24.60
		1	12	24.57	24.62	24.48
		1	24	24.66	24.72	24.62
		12	0	23.52	23.53	23.41
		12	6	23.55	23.60	23.44
		12	13	23.45	23.55	23.33
		25	0	23.52	23.66	23.38
	16QAM	1	0	23.86	23.89	23.75
		1	12	23.58	23.59	23.48

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. : RF260714B011

		1	24	23.77	23.91	23.64
		12	0	22.55	22.65	22.52
		12	6	22.43	22.55	22.41
		12	13	22.48	22.60	22.33
		25	0	22.53	22.55	22.50
	64QAM	1	0	22.85	22.87	22.80
		1	12	22.86	22.87	22.80
		1	24	22.47	22.49	22.40
		12	0	21.51	21.63	21.48
		12	6	21.58	21.72	21.52
		12	13	21.54	21.59	21.48
		25	0	21.41	21.50	21.40
	256QAM	1	0	19.47	19.57	19.43
		1	12	19.37	19.52	19.51
		1	24	19.75	19.76	19.63
		12	0	19.48	19.59	19.44
		12	6	19.51	19.57	19.50
		12	13	19.78	19.83	19.82
		25	0	19.43	19.51	19.48

Part90_LTE Band 26 (Ant0)						
BW [MHz]	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel			26740	
		Frequency (MHz)			819	
10	QPSK	1	0		24.83	
		1	24		24.85	
		1	49		25.00	
		25	0		23.79	
		25	12		23.93	
		25	25		23.90	
		50	0		23.89	
	16QAM	1	0		24.19	
		1	24		24.23	
		1	49		24.19	
		25	0		22.89	
		25	12		22.98	
		25	25		23.01	
		50	0		22.90	
	64QAM	1	0		23.24	
		1	24		23.05	
		1	49		22.96	
		25	0		21.79	
		25	12		21.90	
		25	25		21.93	

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	256QAM	50	0		22.03	
		1	0		19.89	
		1	24		20.01	
		1	49		20.22	
		25	0		19.83	
		25	12		19.97	
		25	25		19.97	
		50	0		19.84	
BW [MHz]	Modulation	Channel		26715	26740	26765
		Frequency (MHz)		816.5	819	821.5
5	QPSK	1	0	24.58	24.73	24.67
		1	12	24.69	24.77	24.72
		1	24	24.74	24.86	24.72
		12	0	23.65	23.70	23.67
		12	6	23.77	23.88	23.75
		12	13	23.72	23.85	23.74
		25	0	23.72	23.81	23.77
	16QAM	1	0	24.00	24.15	24.03
		1	12	24.16	24.19	24.15
		1	24	24.08	24.17	24.08
		12	0	22.67	22.77	22.76
		12	6	22.85	22.96	22.85
		12	13	22.86	22.91	22.90
		25	0	22.81	22.82	22.76
	64QAM	1	0	23.05	23.14	23.03
		1	12	22.85	22.98	22.91
		1	24	22.91	22.93	22.83
		12	0	21.73	21.77	21.66
		12	6	21.71	21.84	21.77
		12	13	21.72	21.86	21.84
		25	0	21.87	21.91	21.82
	256QAM	1	0	19.79	19.87	19.74
		1	12	19.87	20.00	19.89
		1	24	19.99	20.08	19.95
		12	0	19.56	19.68	19.66
		12	6	19.70	19.83	19.74
		12	13	19.86	19.87	19.73
		25	0	19.66	19.79	19.67
BW [MHz]	Modulation	Channel		26705	26740	26775
		Frequency (MHz)		815.5	819	822.5
3	QPSK	1	0	24.69	24.76	24.66
		1	12	24.57	24.71	24.61
		1	24	24.88	24.93	24.90
		12	0	23.59	23.65	23.64
		12	6	23.76	23.89	23.82

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		12	13	23.80	23.86	23.71
		25	0	23.68	23.82	23.69
	16QAM	1	0	23.98	24.13	24.09
		1	12	24.11	24.21	24.12
		1	24	24.03	24.14	24.10
		12	0	22.67	22.77	22.72
		12	6	22.85	22.95	22.82
		12	13	22.95	22.96	22.89
		25	0	22.73	22.79	22.71
	64QAM	1	0	23.03	23.09	23.05
		1	12	22.82	22.90	22.79
		1	24	22.66	22.81	22.72
		12	0	21.60	21.65	21.64
		12	6	21.85	21.86	21.82
		12	13	21.78	21.92	21.90
		25	0	21.79	21.90	21.87
	256QAM	1	0	19.65	19.80	19.75
		1	12	19.78	19.92	19.84
		1	24	20.11	20.14	19.99
		12	0	19.66	19.78	19.76
		12	6	19.82	19.95	19.86
		12	13	19.86	19.87	19.83
		25	0	19.65	19.73	19.72
BW [MHz]	Modulation	Channel		26697	26740	26783
		Frequency (MHz)		814.7	819	823.3
1.4	QPSK	1	0	24.65	24.80	24.64
		1	2	24.63	24.78	24.54
		1	5	24.92	24.99	24.77
		3	0	24.40	24.54	24.32
		3	1	24.46	24.58	24.43
		3	3	24.64	24.66	24.61
		6	0	23.72	23.78	23.67
	16QAM	1	0	24.10	24.14	24.09
		1	2	24.13	24.14	24.07
		1	5	24.02	24.06	23.98
		3	0	23.50	23.57	23.45
		3	1	23.59	23.65	23.49
		3	3	23.66	23.71	23.65
		6	0	22.82	22.88	22.73
	64QAM	1	0	23.05	23.17	22.91
		1	2	22.87	22.94	22.81
		1	5	22.78	22.83	22.77
		3	0	22.48	22.57	22.33
		3	1	22.64	22.66	22.49
		3	3	22.63	22.67	22.57

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		6	0	21.94	21.99	21.81
	256QAM	1	0	19.72	19.78	19.60
		1	2	19.93	19.94	19.86
		1	5	19.98	20.12	19.92
		3	0	19.70	19.82	19.60
		3	1	19.79	19.93	19.78
		3	3	19.84	19.96	19.81
		6	0	19.73	19.80	19.59

ERP

LTE Band 14 (Ant0)							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
10M-QPSK	0	0	0.00	-3.12	-5.27	0.30	3
	23330	793	24.83	-3.12	19.56	90.36	3
	0	0	0.00	-3.12	-5.27	0.30	3
10M-16QAM	0	0	0.00	-3.12	-5.27	0.30	3
	23330	793	24.02	-3.12	18.75	74.99	3
	0	0	0.00	-3.12	-5.27	0.30	3
10M-64QAM	0	0	0.00	-3.12	-5.27	0.30	3
	23330	793	23.02	-3.12	17.75	59.57	3
	0	0	0.00	-3.12	-5.27	0.30	3
10M-256QAM	0	0	0.00	-3.12	-5.27	0.30	3
	23330	793	19.88	-3.12	14.61	28.91	3
	0	0	0.00	-3.12	-5.27	0.30	3
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
5M-QPSK	23305	790.5	24.73	-3.12	19.46	88.31	3
	23330	793	24.79	-3.12	19.52	89.54	3
	23355	795.5	24.62	-3.12	19.35	86.10	3
5M-16QAM	23305	790.5	23.86	-3.12	18.59	72.28	3
	23330	793	23.91	-3.12	18.64	73.11	3
	23355	795.5	23.75	-3.12	18.48	70.47	3
5M-64QAM	23305	790.5	22.86	-3.12	17.59	57.41	3
	23330	793	22.87	-3.12	17.60	57.54	3
	23355	795.5	22.80	-3.12	17.53	56.62	3
5M-256QAM	23305	790.5	19.78	-3.12	14.51	28.25	3
	23330	793	19.83	-3.12	14.56	28.58	3
	23355	795.5	19.82	-3.12	14.55	28.51	3

EIRP Part90_LTE Band 26 (Ant0)							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
10M-QPSK	26740	819	25.00	-1.14	21.71	148.25	100
10M-16QAM	26740	819	24.23	-1.14	20.94	124.17	100
10M-64QAM	26740	819	23.24	-1.14	19.95	98.86	100
10M-256QAM	26740	819	20.22	-1.14	16.93	49.32	100
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
5M-QPSK	26715	816.5	24.74	-1.14	21.45	139.64	100
	26740	819	24.86	-1.14	21.57	143.55	100
	26765	821.5	24.72	-1.14	21.43	139.00	100
5M-16QAM	26715	816.5	24.16	-1.14	20.87	122.18	100
	26740	819	24.19	-1.14	20.90	123.03	100
	26765	821.5	24.15	-1.14	20.86	121.90	100
5M-64QAM	26715	816.5	23.05	-1.14	19.76	94.62	100
	26740	819	23.14	-1.14	19.85	96.61	100
	26765	821.5	23.03	-1.14	19.74	94.19	100
5M-256QAM	26715	816.5	19.99	-1.14	16.70	46.77	100
	26740	819	20.08	-1.14	16.79	47.75	100
	26765	821.5	19.95	-1.14	16.66	46.34	100
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
3M-QPSK	26705	815.5	24.88	-1.14	21.59	144.21	100
	26740	819	24.93	-1.14	21.64	145.88	100
	26775	822.5	24.90	-1.14	21.61	144.88	100
3M-16QAM	26705	815.5	24.11	-1.14	20.82	120.78	100
	26740	819	24.21	-1.14	20.92	123.59	100
	26775	822.5	24.12	-1.14	20.83	121.06	100
3M-64QAM	26705	815.5	23.03	-1.14	19.74	94.19	100
	26740	819	23.09	-1.14	19.80	95.50	100
	26775	822.5	23.05	-1.14	19.76	94.62	100

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3M-256QAM	26705	815.5	20.11	-1.14	16.82	48.08	100
	26740	819	20.14	-1.14	16.85	48.42	100
	26775	822.5	19.99	-1.14	16.70	46.77	100
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	Limit (W)
1.4M-QPSK	26697	814.7	24.92	-1.14	21.63	145.55	100
	26740	819	24.99	-1.14	21.70	147.91	100
	26783	823.3	24.77	-1.14	21.48	140.60	100
1.4M-16QAM	26697	814.7	24.13	-1.14	20.84	121.34	100
	26740	819	24.14	-1.14	20.85	121.62	100
	26783	823.3	24.09	-1.14	20.80	120.23	100
1.4M-64QAM	26697	814.7	23.05	-1.14	19.76	94.62	100
	26740	819	23.17	-1.14	19.88	97.27	100
	26783	823.3	22.91	-1.14	19.62	91.62	100
1.4M-256QAM	26697	814.7	19.98	-1.14	16.69	46.67	100
	26740	819	20.12	-1.14	16.83	48.19	100
	26783	823.3	19.92	-1.14	16.63	46.03	100

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

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

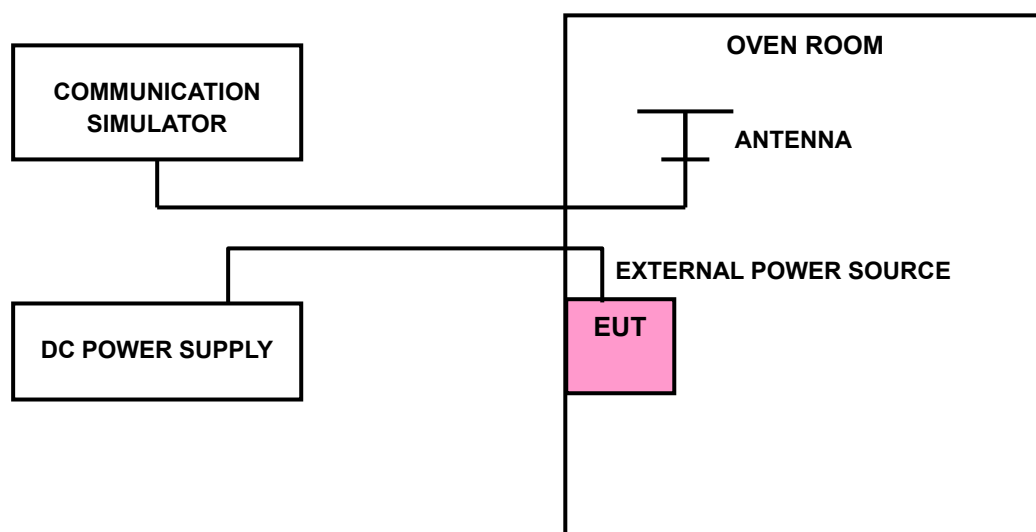
The frequency stability of mobile, portable and control transmitters operating in the wideband segment must be 1.25 parts per million or better when AFC is locked to a base station, and 5 parts per million or better when AFC is not locked

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



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3.2.4 TEST RESULTS

Please Refer to Appendix of this test report.

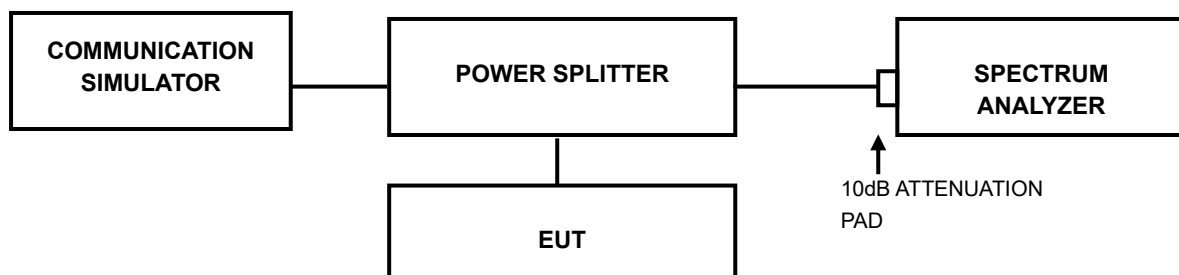
Note: VL = Low voltage(3.4V); VN/NV = Normal voltage(3.7V); VH = High voltage(4.2V);
NT = Normal temperature (25°C)

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 EMISSION MASK MEASUREMENT

3.4.1 LIMITS OF EMISSION MASK MEASUREMENT

LTE Band14:

According to FCC part 90.543(e) shall be tested the emission mask.

(e) For operations in the 758–768 MHz and the 788–798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations.

(2) On all frequencies between 769–775 MHz and 799–805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775–788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.

(4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

(5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.

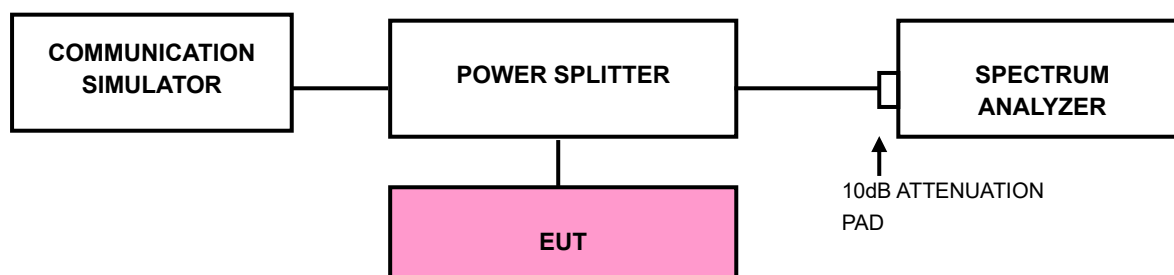
Test Report No. : RF260714B011

LTE Band26:

According to FCC part 90.691 shall be tested the emission mask. For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

3.4.2 TEST SETUP



3.4.3 TEST PROCEDURES

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

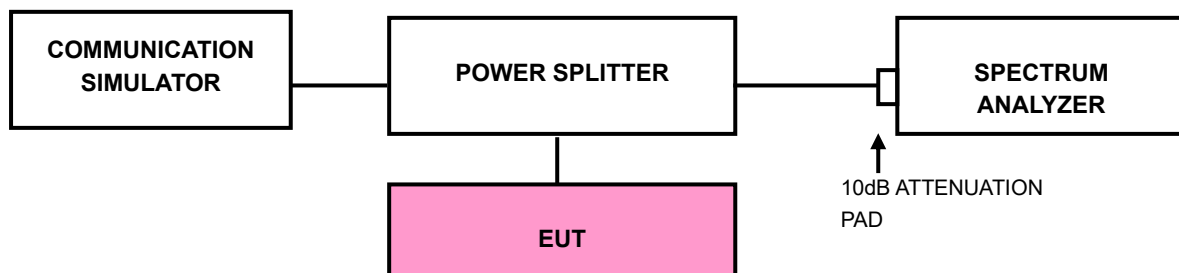
(1) The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB. The limit of emission equal to -13dBm

(2) For operations in the 763–775 MHz and 793–805 MHz bands, all emissions including harmonics in the band 1559– 1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

3.5.2 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at middle 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





Test Report No. : RF260714B011

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

(1) The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB. The limit of emission equal to -13dBm

(2) For operations in the 763–775 MHz and 793–805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

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,
 $\text{E.R.P power} = \text{E.I.P.R power} - 2.15\text{dBi}.$

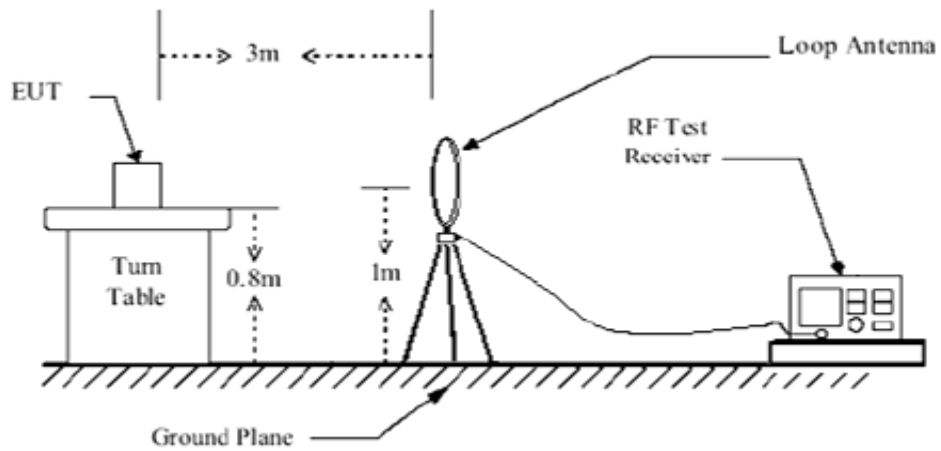
NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

3.6.3 DEVIATION FROM TEST STANDARD

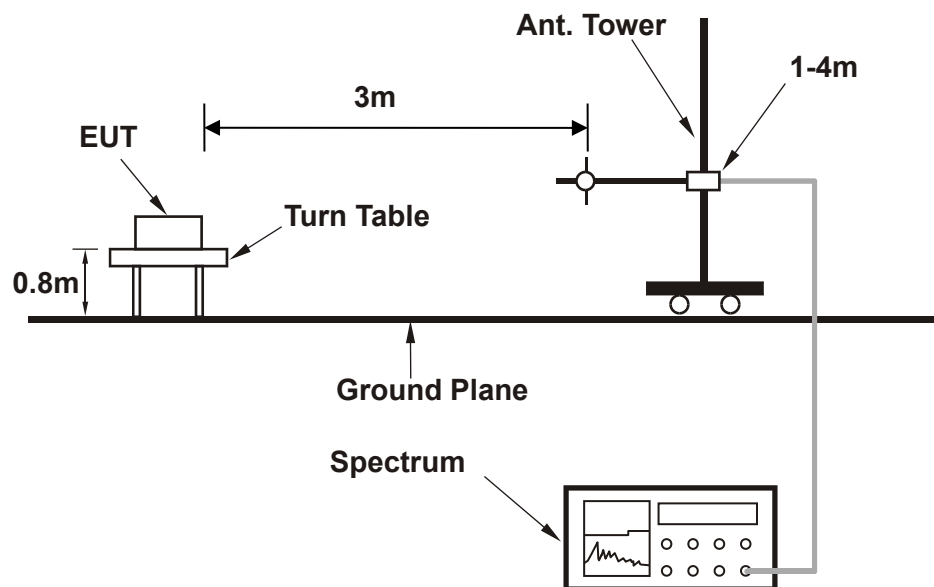
No deviation

3.6.4 TEST SETUP

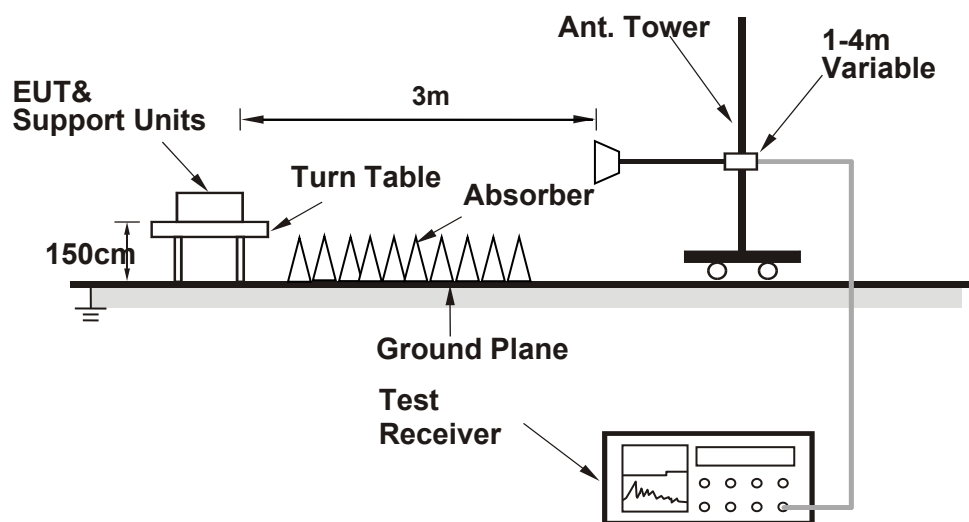
<Below 30MHz>



< Frequency Range 30MHz~1GHz >



< Frequency Range above 1GHz >

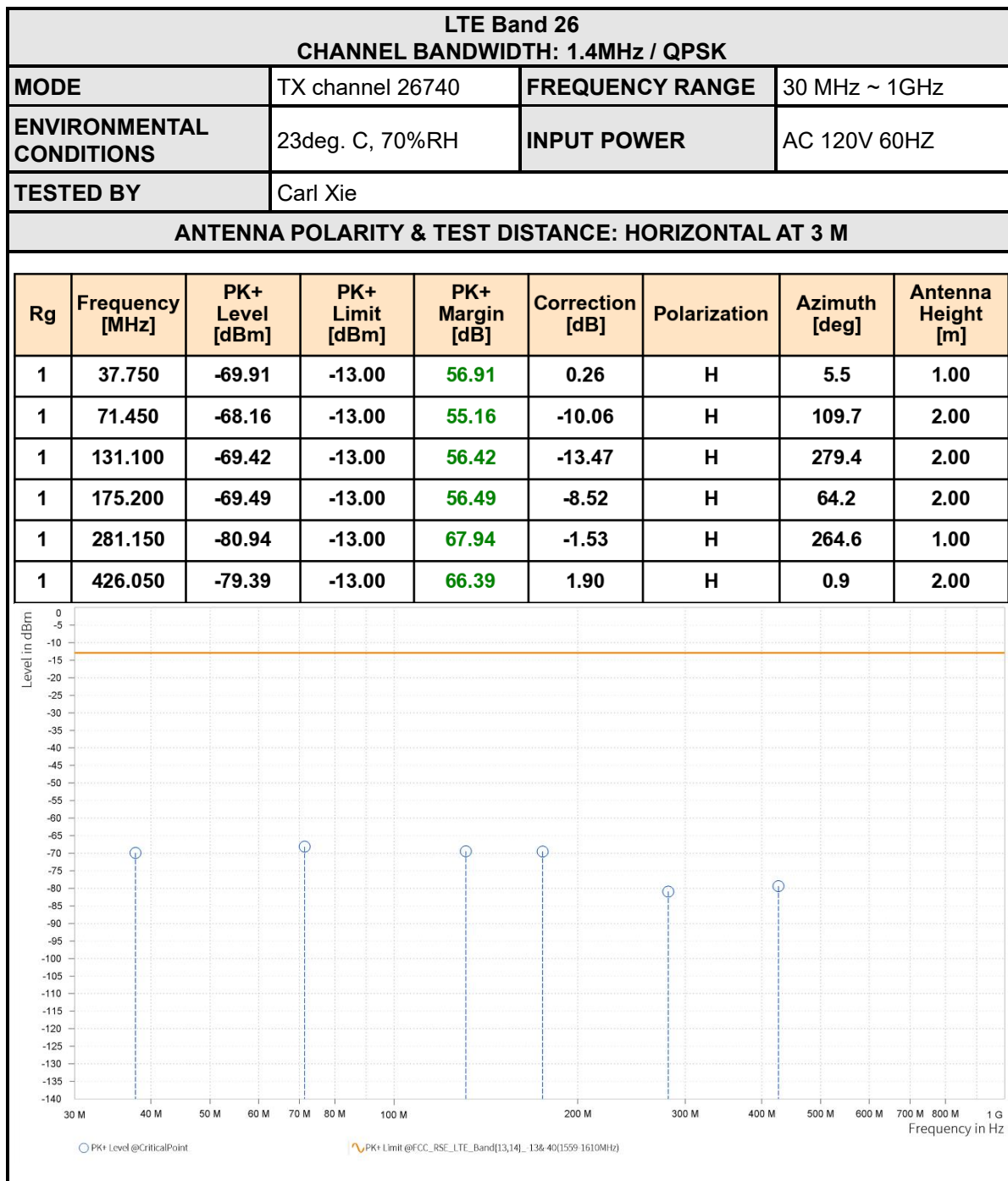


For the actual test configuration, please refer to the attached file (Test Setup Photo).

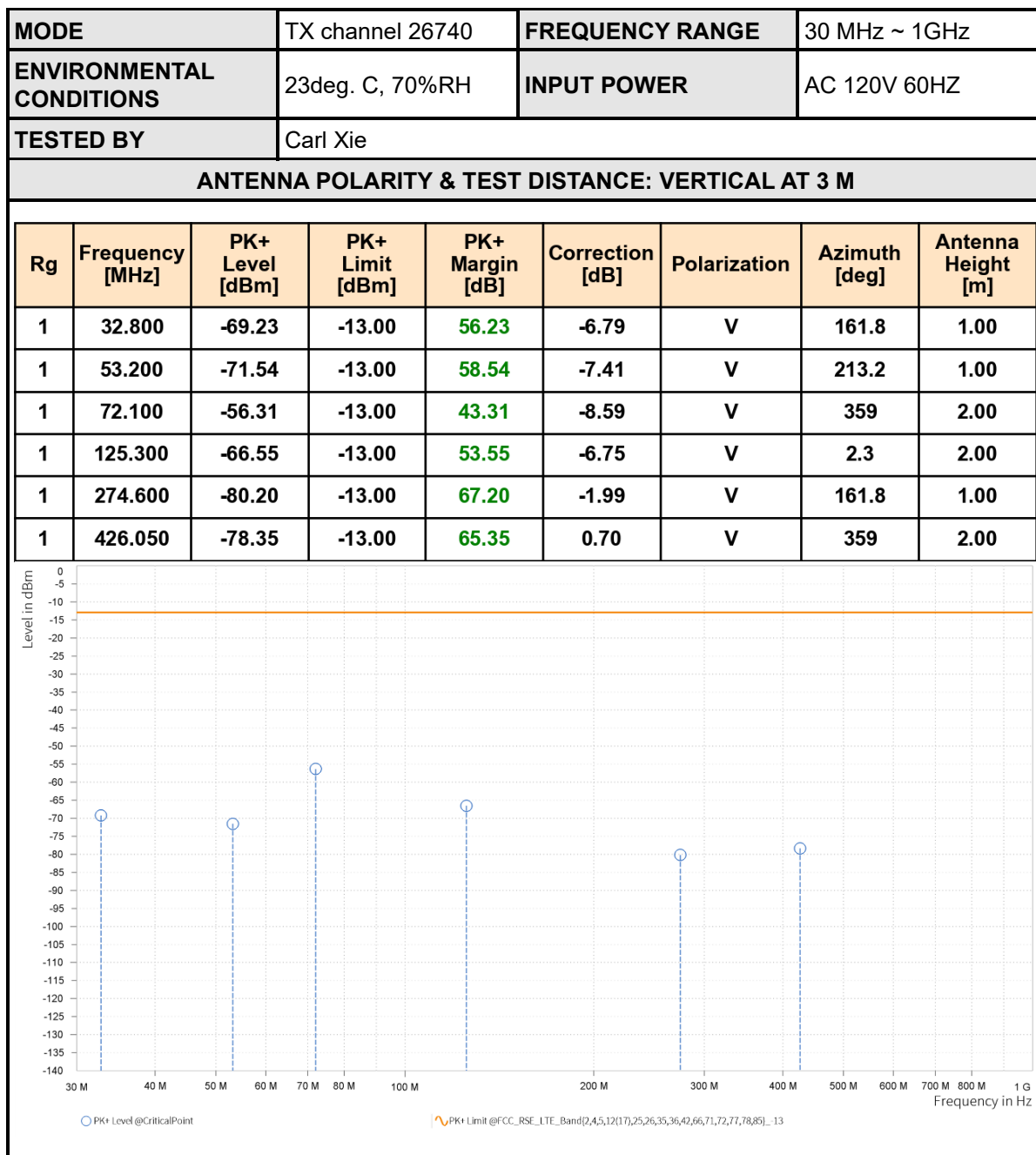
3.6.5 TEST RESULTS

BELOW 1GHz WORST-CASE DATA

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



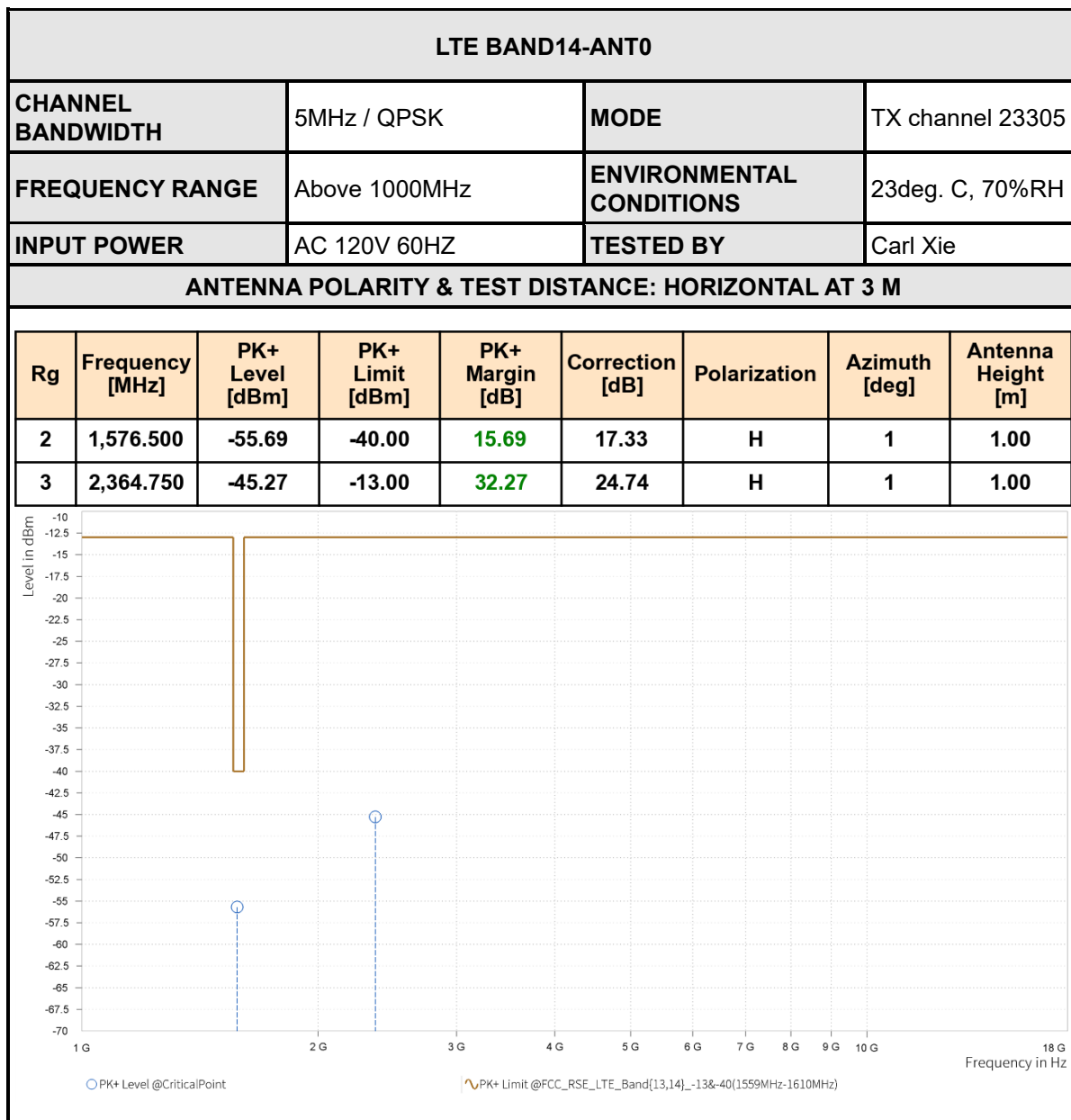
Test Report No. : RF260714B011



Test Report No. : RF260714B011

ABOVE 1GHz

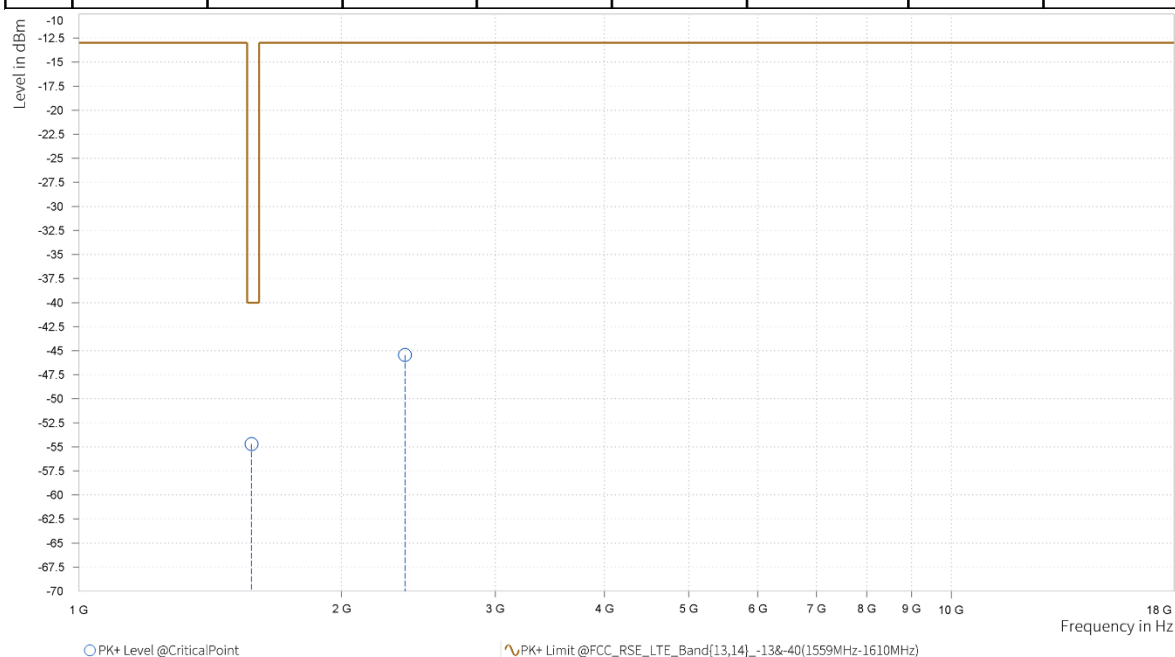
Note: For higher frequency, the emission is too low to be detected.



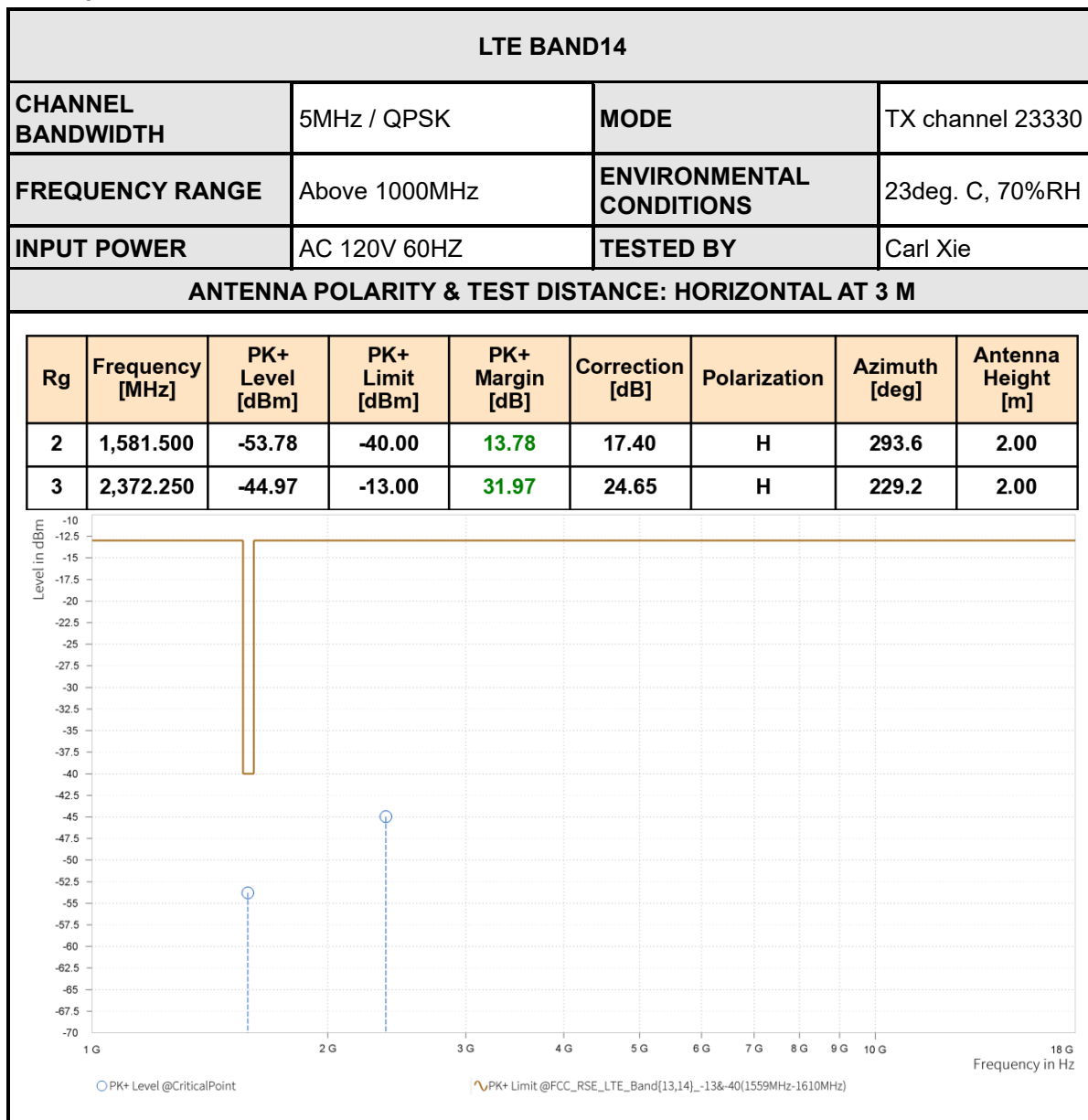
CHANNEL BANDWIDTH	5MHz / QPSK	MODE	TX channel 23305
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie

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	1,576.500	-54.69	-40.00	14.69	17.14	V	288.8	2.00
3	2,364.750	-45.44	-13.00	32.44	24.43	V	0.9	2.00



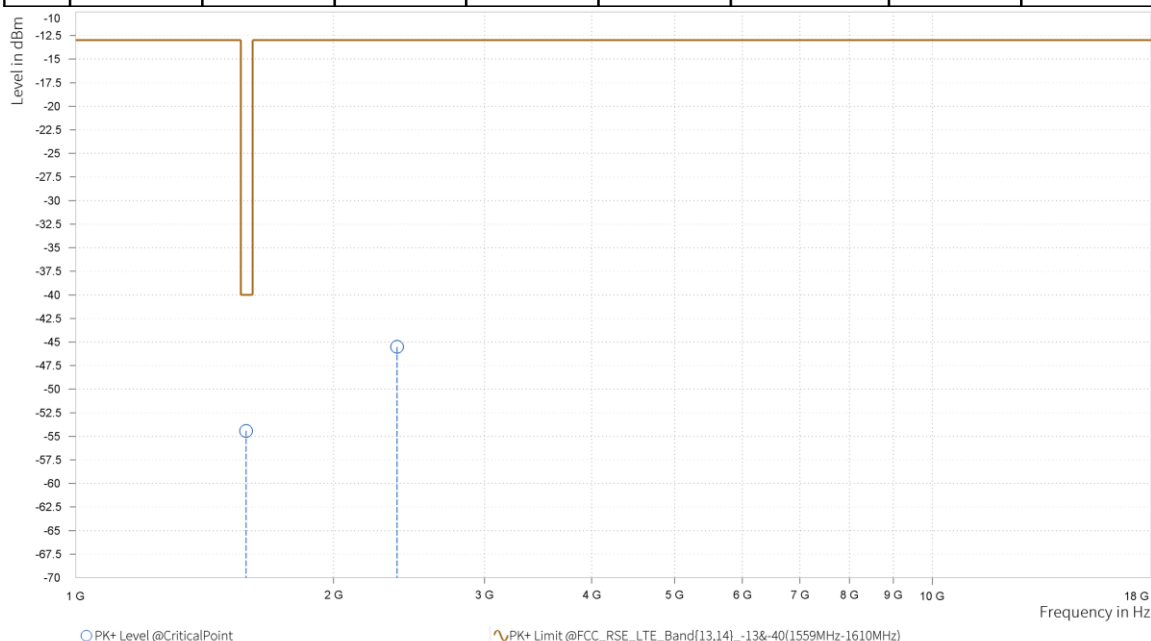
Test Report No. : RF260714B011



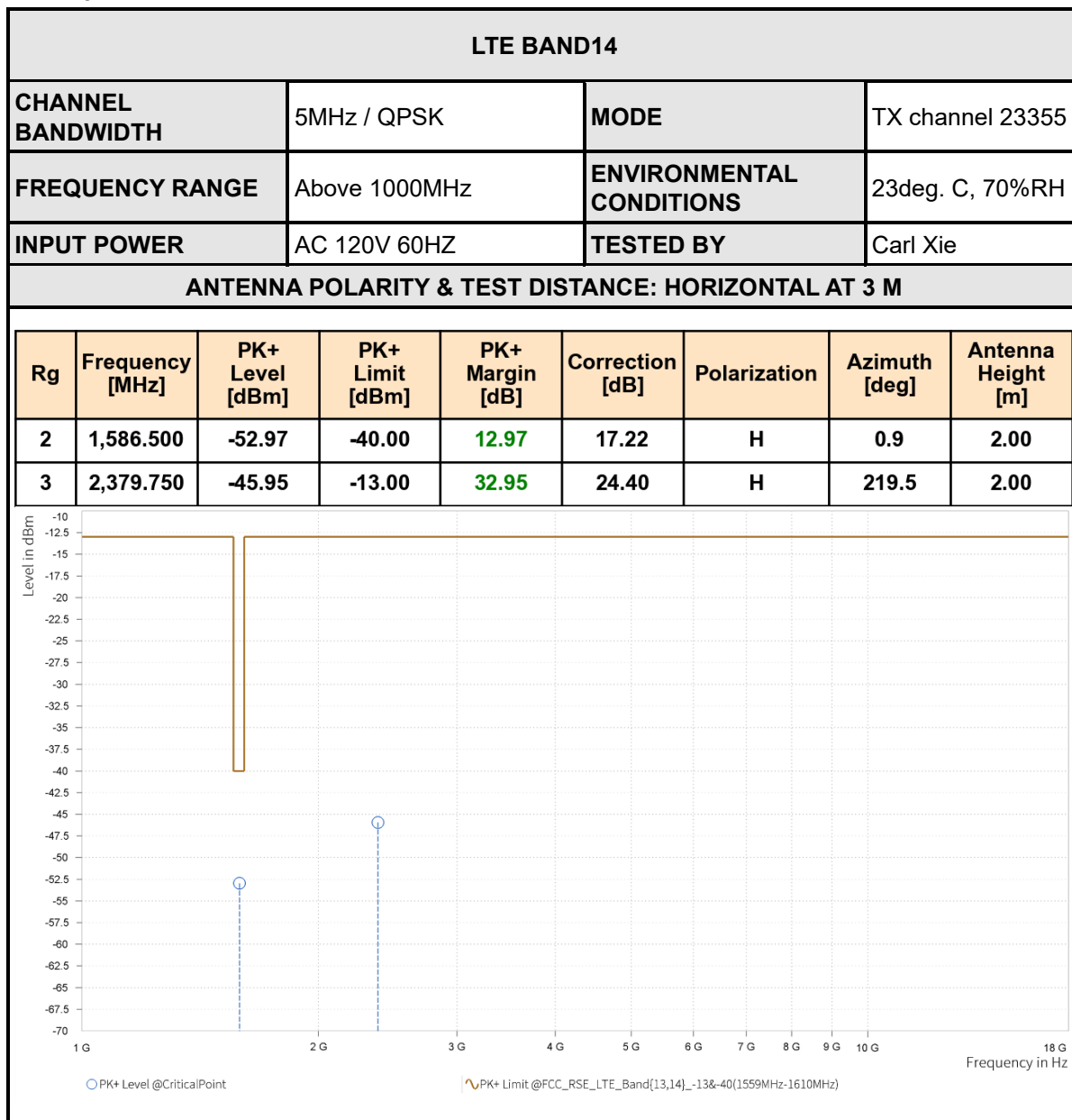
CHANNEL BANDWIDTH	5MHz / QPSK	MODE	TX channel 23330
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie

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	1,581.500	-54.44	-40.00	14.44	17.25	V	1	1.00
3	2,372.250	-45.52	-13.00	32.52	24.36	V	359	2.00



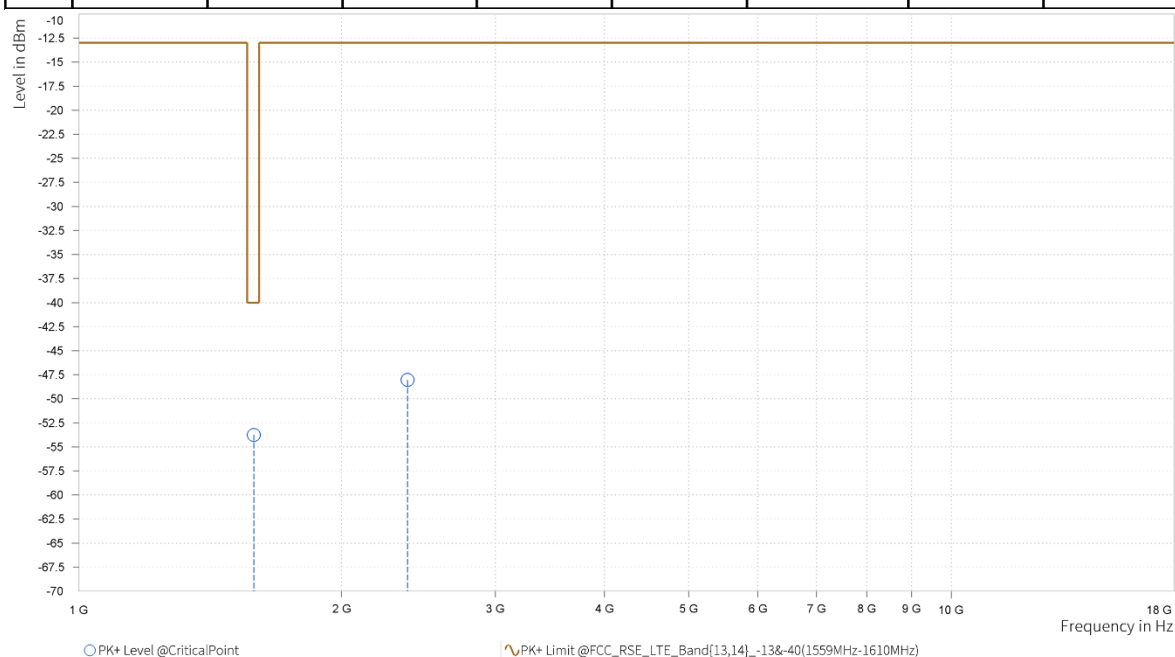
Test Report No. : RF260714B011



CHANNEL BANDWIDTH	5MHz / QPSK	MODE	TX channel 23355
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

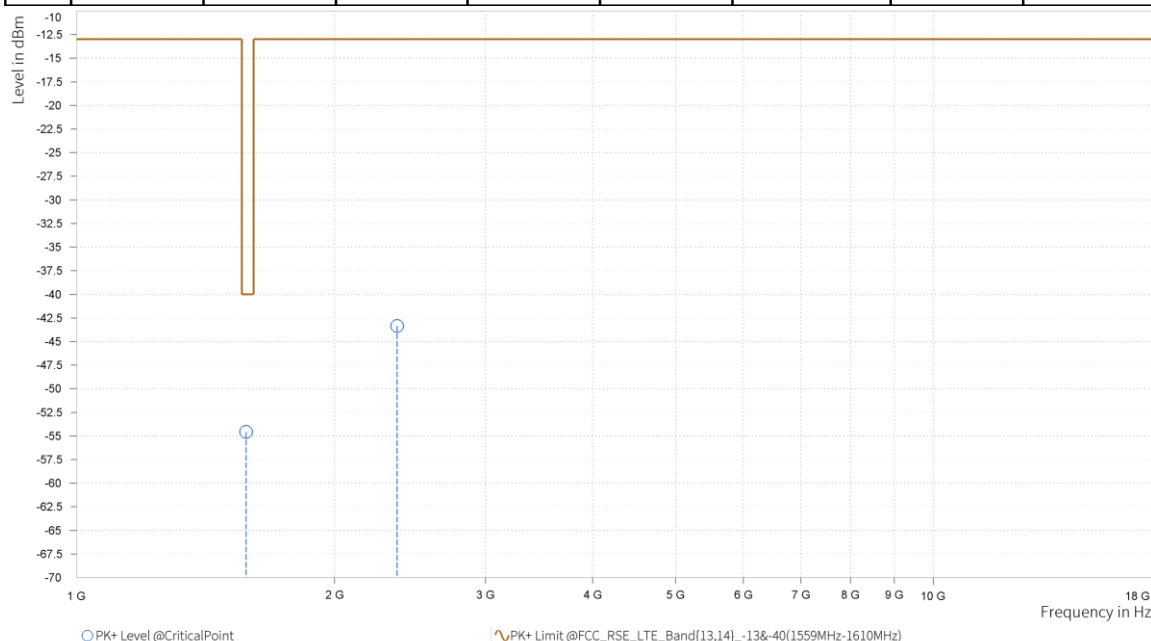
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,586.500	-53.75	-40.00	13.75	17.11	V	69.9	1.00
3	2,379.750	-48.05	-13.00	35.05	24.14	V	359	1.00



CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 23330
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

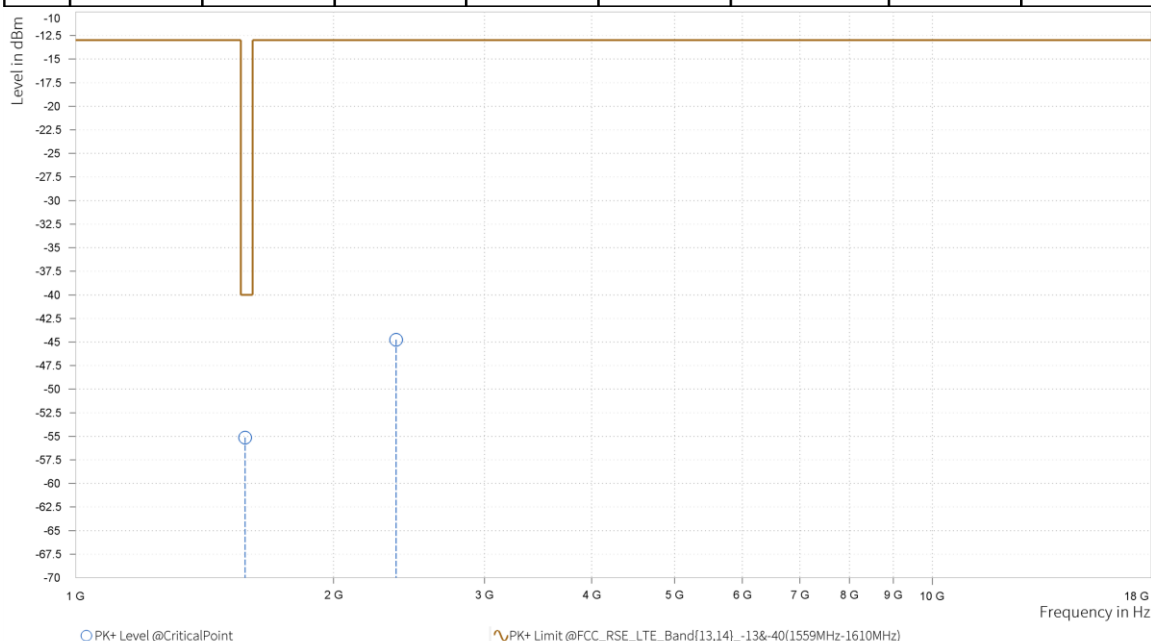
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,577.000	-54.58	-40.00	14.58	17.35	H	1.2	2.00
3	2,365.500	-43.34	-13.00	30.34	24.74	H	359.1	1.00

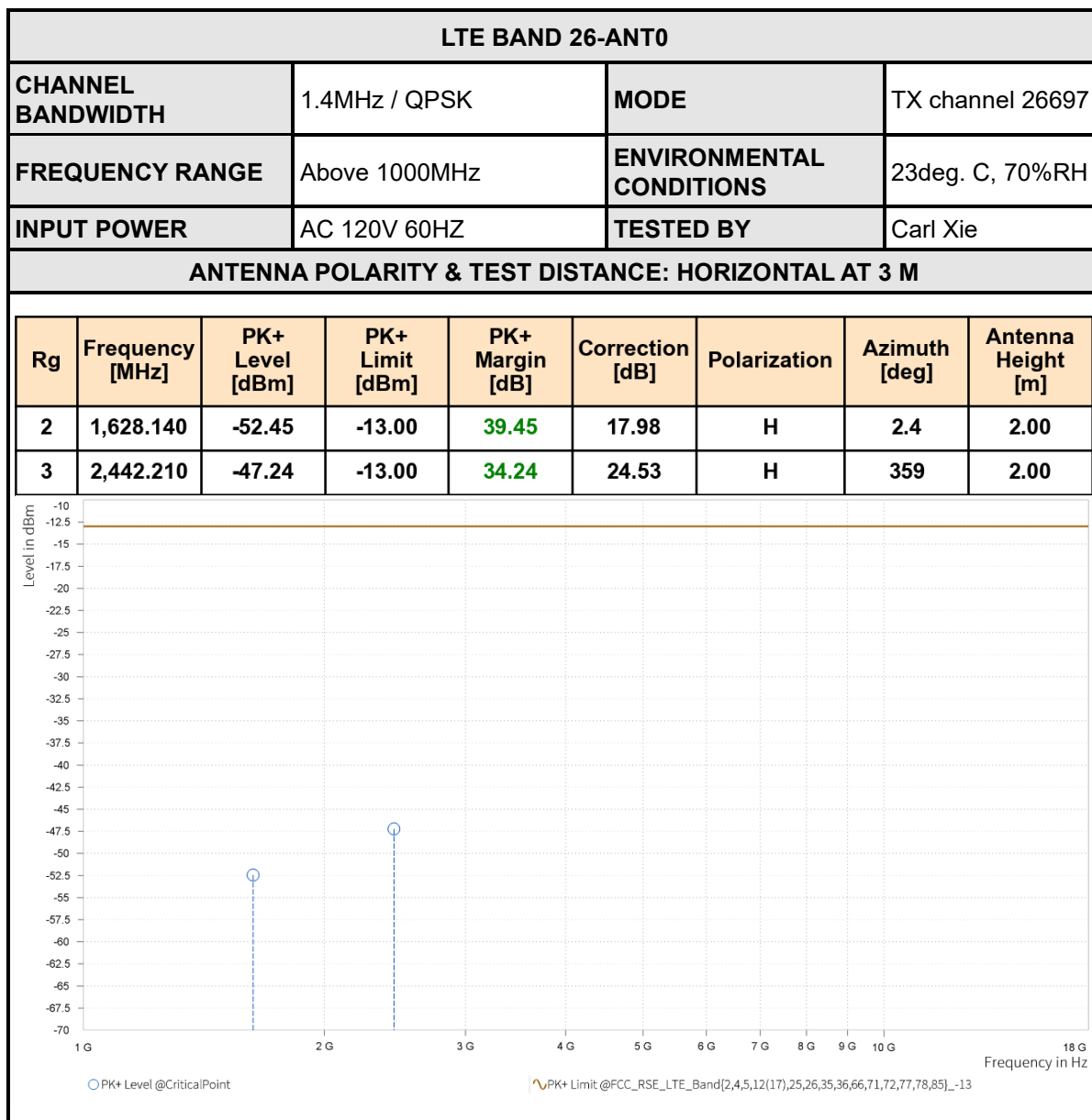


CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 23330
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie

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	1,577.000	-55.13	-40.00	15.13	17.16	V	359	2.00
3	2,365.500	-44.76	-13.00	31.76	24.42	V	1	1.00

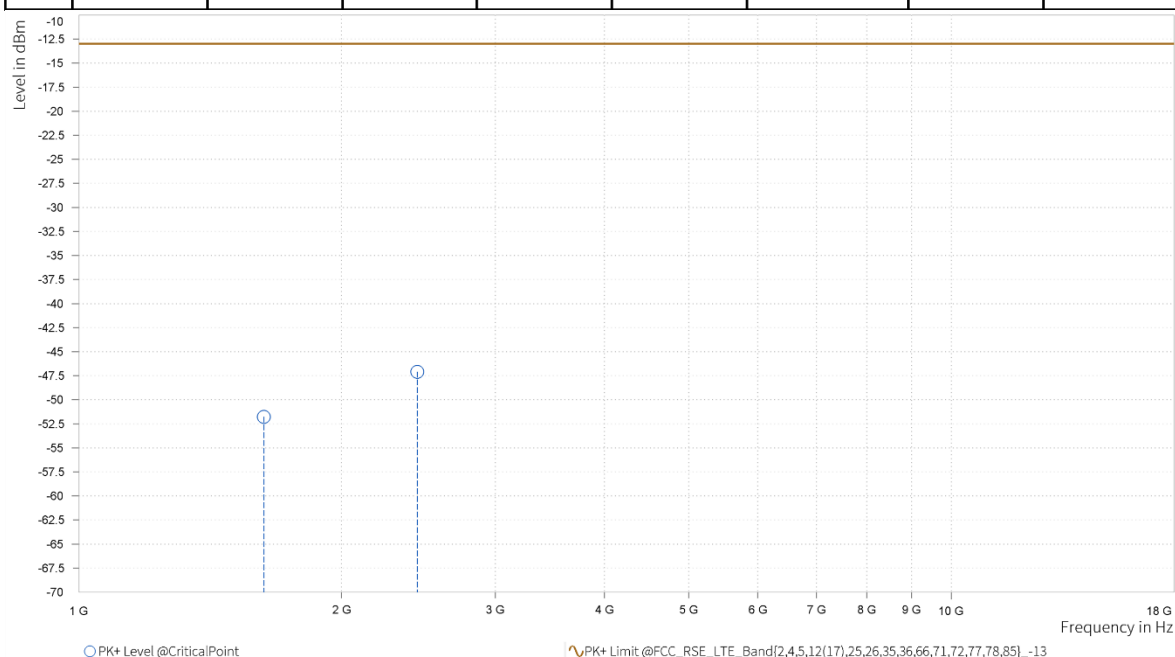




CHANNEL BANDWIDTH	1.4MHz / QPSK	MODE	TX channel 26697
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie

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	1,628.140	-51.76	-13.00	38.76	17.70	V	359	2.00
3	2,442.210	-47.08	-13.00	34.08	24.37	V	358.8	1.00

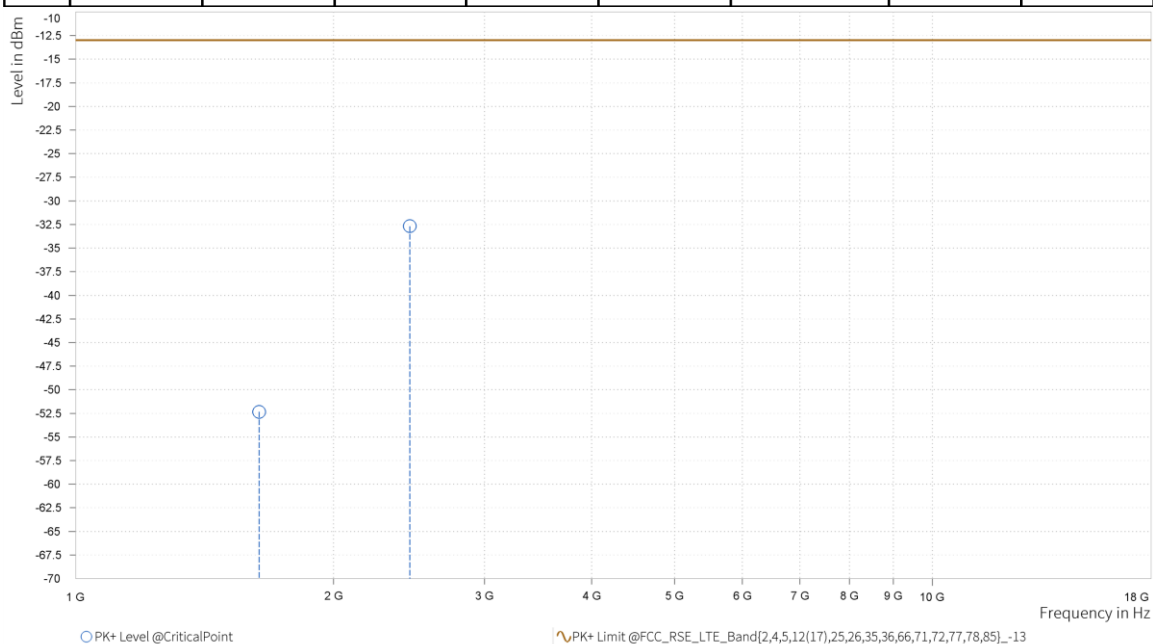


Test Report No. : RF260714B011

CHANNEL BANDWIDTH	1.4MHz / QPSK	MODE	TX channel 26740
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

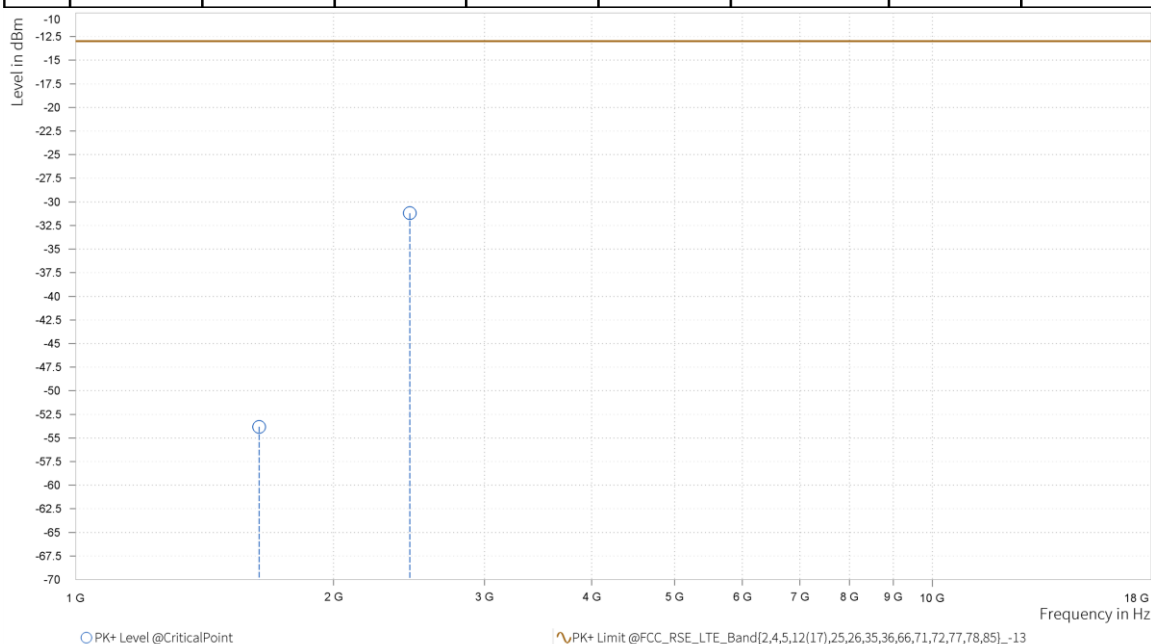
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,636.740	-52.34	-13.00	39.34	18.28	H	359	2.00
3	2,455.110	-32.68	-13.00	19.68	24.69	H	359	2.00



CHANNEL BANDWIDTH	1.4MHz / QPSK	MODE	TX channel 26740
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 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	1,636.740	-53.82	-13.00	40.82	17.90	V	359	2.00
3	2,455.110	-31.20	-13.00	18.20	24.47	V	359	2.00

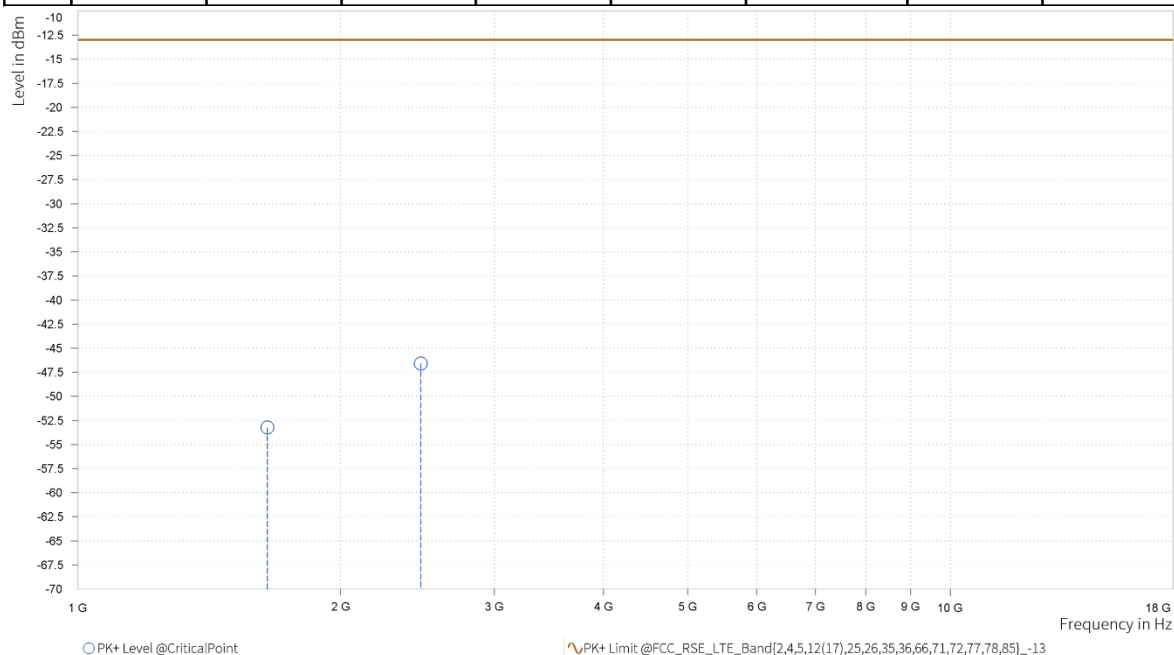


Test Report No. : RF260714B011

CHANNEL BANDWIDTH	1.4MHz / QPSK	MODE	TX channel 26783
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

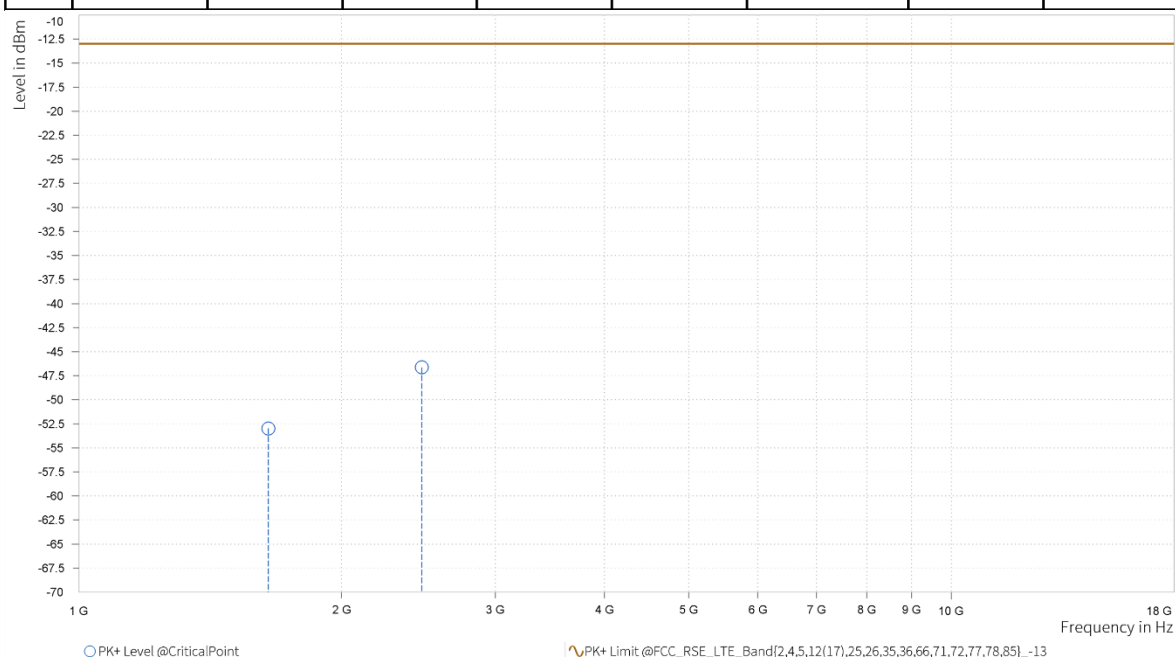
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,648.140	-53.23	-13.00	40.23	18.63	H	2.5	2.00
3	2,472.210	-46.58	-13.00	33.58	24.40	H	229.1	2.00



CHANNEL BANDWIDTH	1.4MHz / QPSK	MODE	TX channel 26783
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

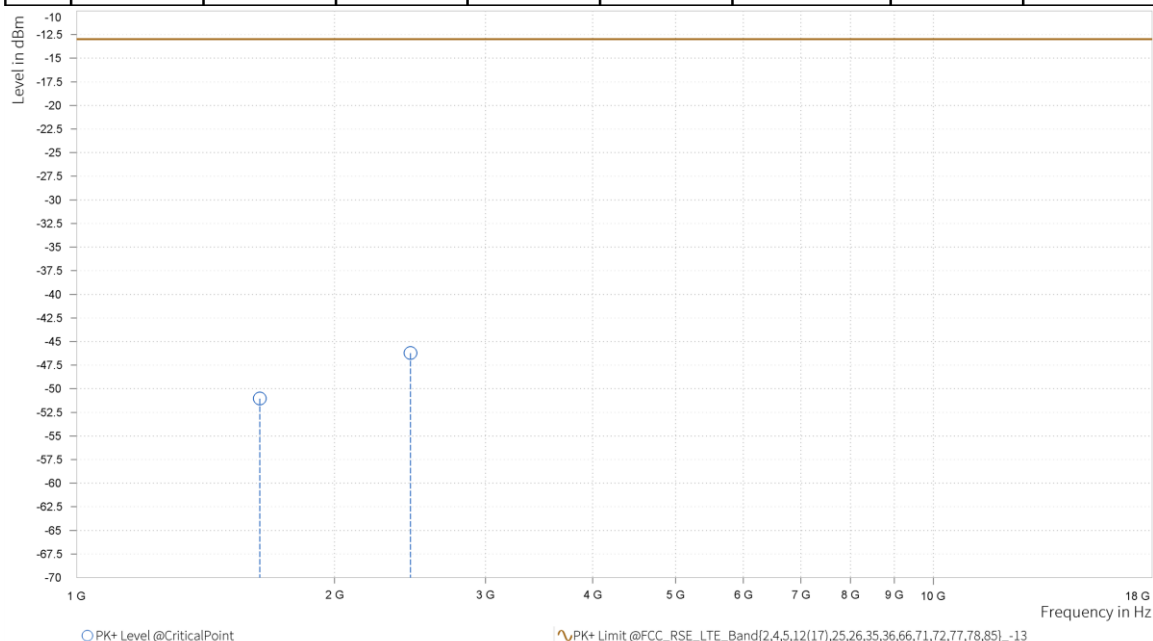
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,648.140	-52.98	-13.00	39.98	18.11	V	357.5	1.00
3	2,472.210	-46.63	-13.00	33.63	24.11	V	229.1	2.00



CHANNEL BANDWIDTH	3MHz / QPSK	MODE	TX channel 26740
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

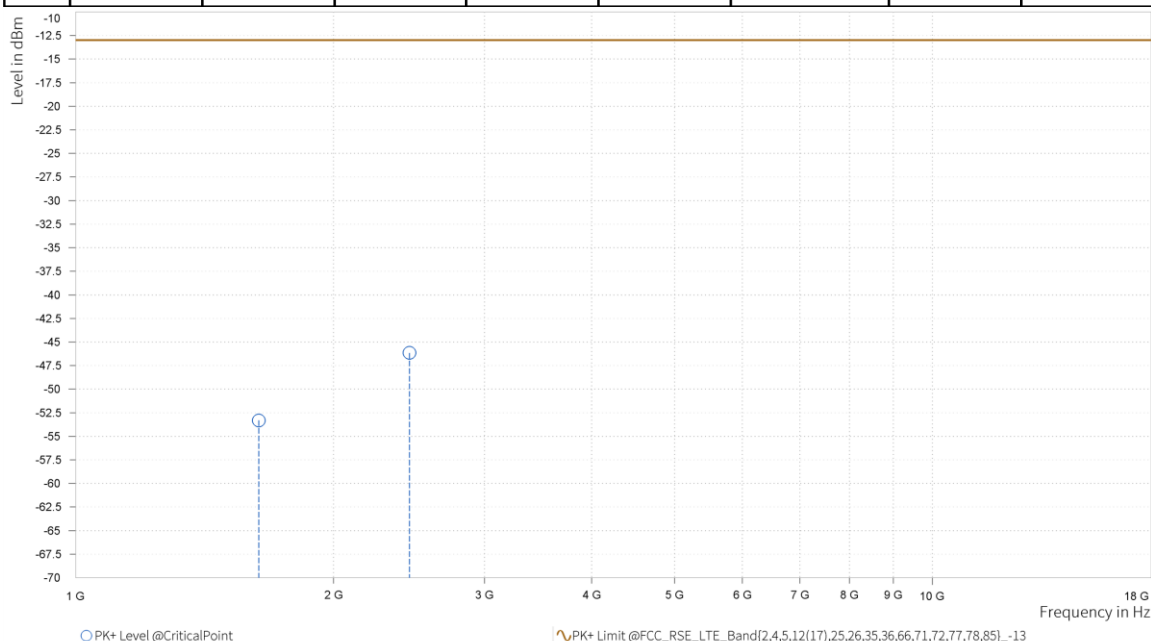
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,635.300	-51.03	-13.00	38.03	18.24	H	359	2.00
3	2,452.950	-46.22	-13.00	33.22	24.59	H	0.9	2.00



CHANNEL BANDWIDTH	3MHz / QPSK	MODE	TX channel 26740
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

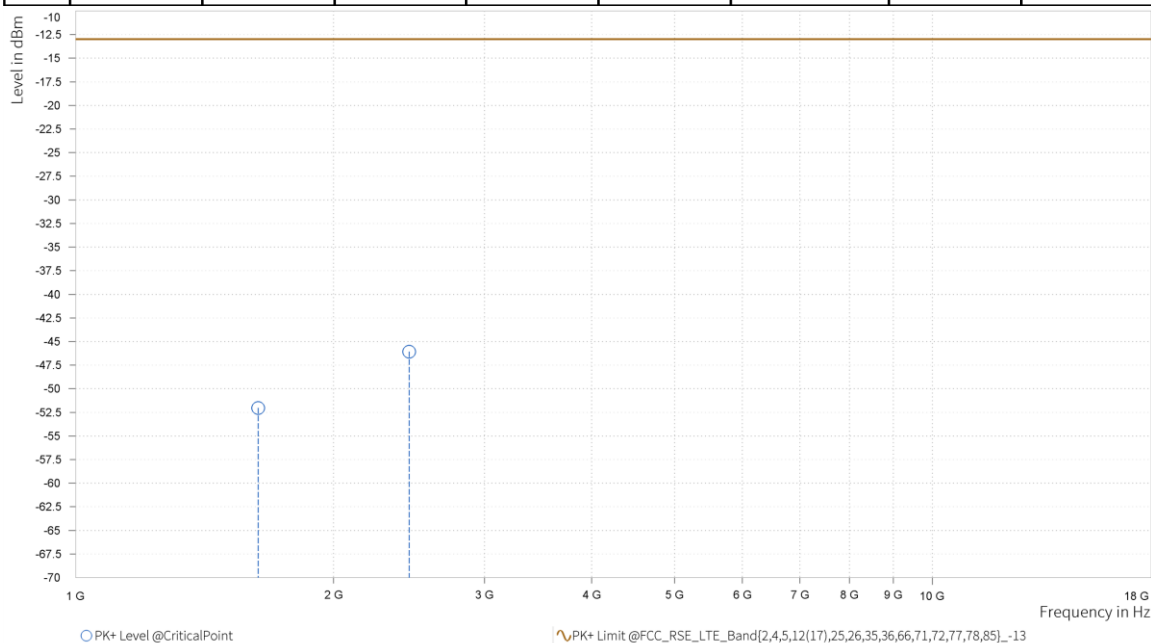
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,635.300	-53.31	-13.00	40.31	17.87	V	1	1.00
3	2,452.950	-46.15	-13.00	33.15	24.38	V	359	2.00



CHANNEL BANDWIDTH	5MHz / QPSK	MODE	TX channel 26740
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

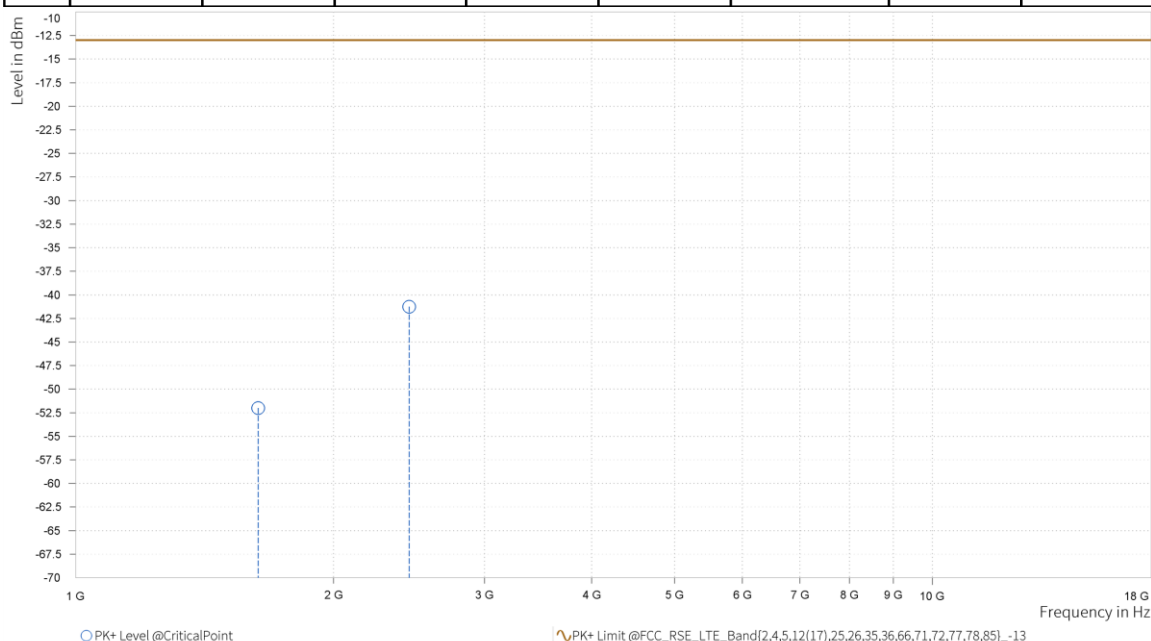
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,633.500	-52.04	-13.00	39.04	18.16	H	359	2.00
3	2,450.250	-46.08	-13.00	33.08	24.45	H	1	1.00



CHANNEL BANDWIDTH	5MHz / QPSK	MODE	TX channel 26740
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

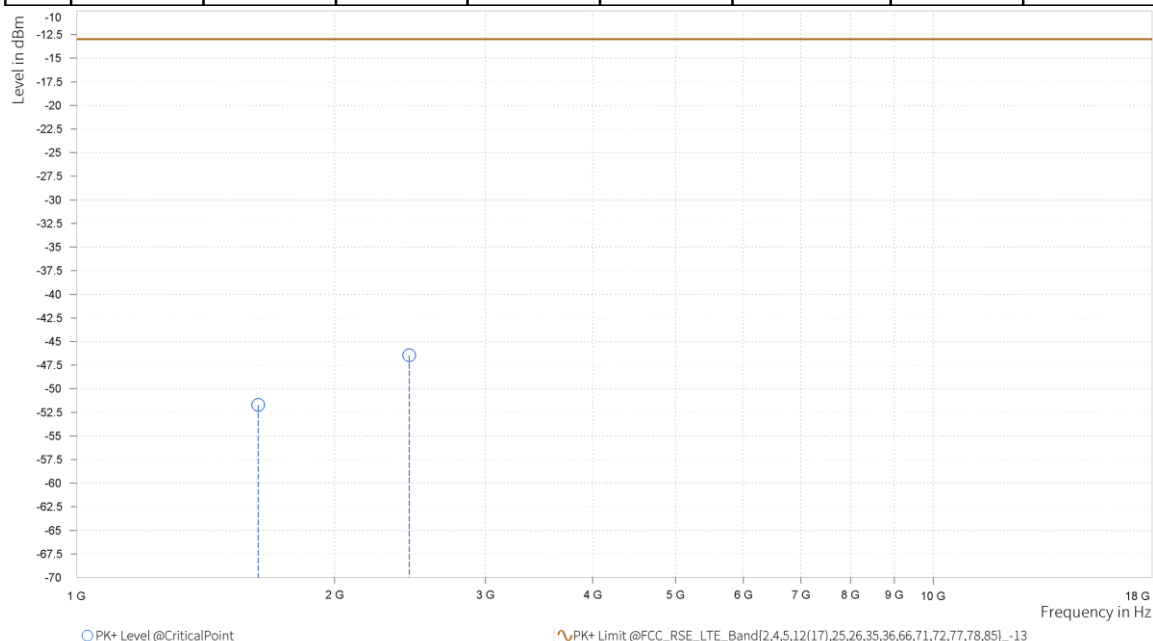
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,633.500	-52.00	-13.00	39.00	17.81	V	0.9	2.00
3	2,450.250	-41.25	-13.00	28.25	24.24	V	144.1	1.00



CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 26740
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 60HZ	TESTED BY	Carl Xie

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

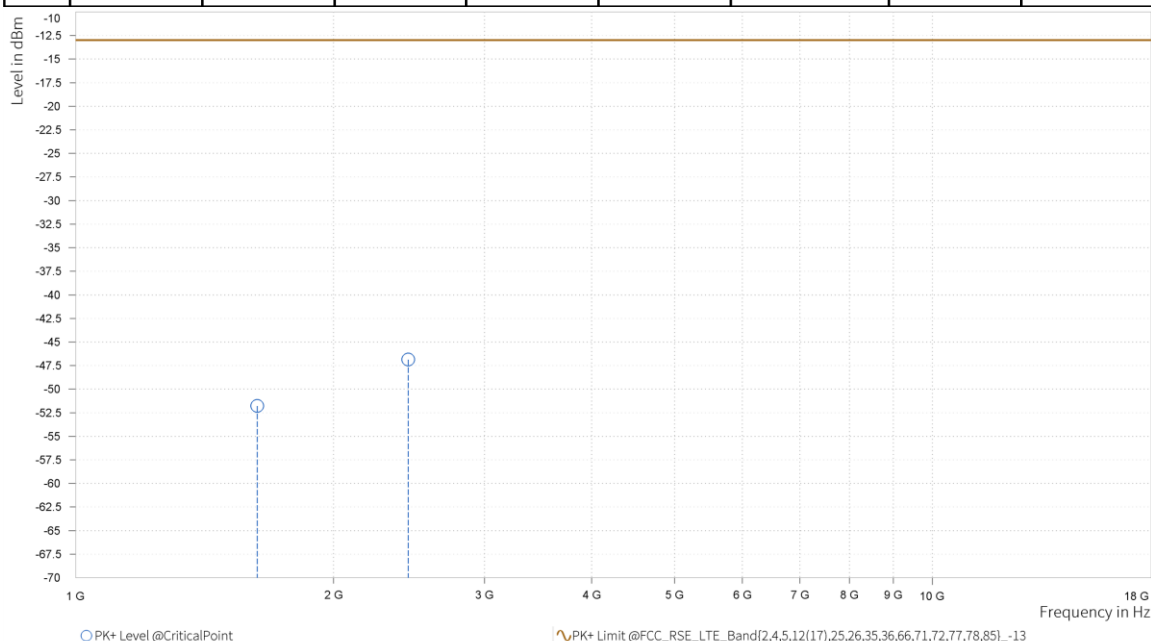
Rg	Frequency [MHz]	PK+ Level [dBm]	PK+ Limit [dBm]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
2	1,629.000	-51.72	-13.00	38.72	17.99	H	1	1.00
3	2,443.500	-46.46	-13.00	33.46	24.52	H	359	2.00



CHANNEL BANDWIDTH	10MHz / QPSK	MODE	TX channel 26740
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	AC 120V 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	1,629.000	-51.78	-13.00	38.78	17.70	V	286.4	2.00
3	2,443.500	-46.87	-13.00	33.87	24.34	V	359	2.00

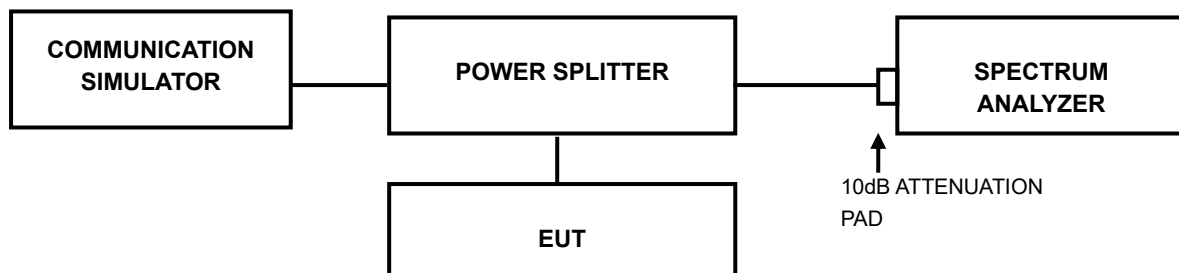


3.7 PEAK TO AVERAGE RATIO

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. : RF260714B011

4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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

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

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

No modifications were made to the EUT by the lab during the test.

7 APPENDIX

LTE BAND 14

PEAK-TO-AVERAGE RATIO(CCDF)

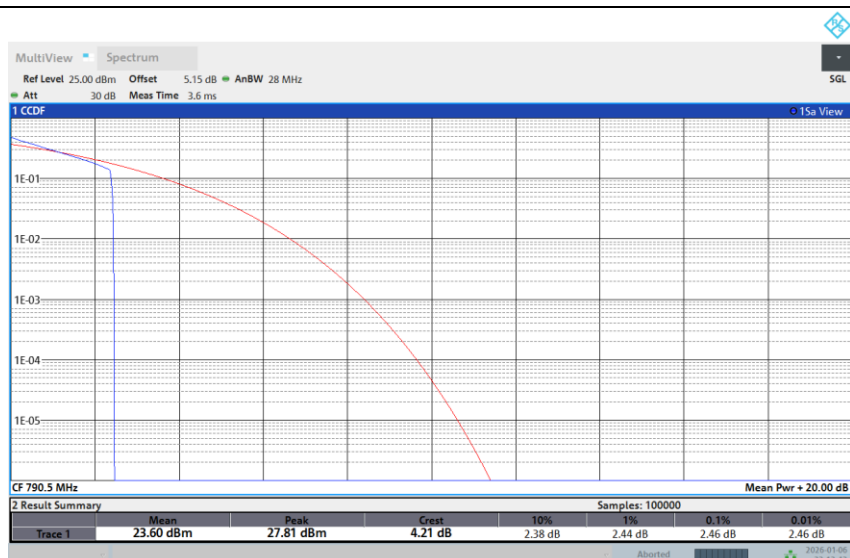
Test Result

Bandwidth	Modulation	Channel	RB Configuration	Result (dB)	Limit (dB)	Verdict
5MHz	QPSK	23305	1RB Low	2.46	13	PASS
5MHz	QPSK	23305	Full RB	2.46	13	PASS
5MHz	16QAM	23305	1RB Low	2.26	13	PASS
5MHz	16QAM	23305	Full RB	3.50	13	PASS
5MHz	64QAM	23305	1RB Low	3.50	13	PASS
5MHz	64QAM	23305	Full RB	4.52	13	PASS
5MHz	256QAM	23305	1RB Low	6.66	13	PASS
5MHz	256QAM	23305	Full RB	6.38	13	PASS
5MHz	QPSK	23330	1RB Low	2.56	13	PASS
5MHz	QPSK	23330	Full RB	2.46	13	PASS
5MHz	16QAM	23330	1RB Low	2.56	13	PASS
5MHz	16QAM	23330	Full RB	3.50	13	PASS
5MHz	64QAM	23330	1RB Low	3.20	13	PASS
5MHz	64QAM	23330	Full RB	4.52	13	PASS
5MHz	256QAM	23330	1RB Low	6.30	13	PASS
5MHz	256QAM	23330	Full RB	6.38	13	PASS
5MHz	QPSK	23355	1RB Low	2.36	13	PASS
5MHz	QPSK	23355	Full RB	2.56	13	PASS
5MHz	16QAM	23355	1RB Low	2.56	13	PASS
5MHz	16QAM	23355	Full RB	3.50	13	PASS
5MHz	64QAM	23355	1RB Low	3.58	13	PASS
5MHz	64QAM	23355	Full RB	4.62	13	PASS
5MHz	256QAM	23355	1RB Low	6.42	13	PASS
5MHz	256QAM	23355	Full RB	6.52	13	PASS
10MHz	QPSK	23330	1RB Low	2.46	13	PASS
10MHz	QPSK	23330	Full RB	2.46	13	PASS
10MHz	16QAM	23330	1RB Low	2.26	13	PASS
10MHz	16QAM	23330	Full RB	3.50	13	PASS
10MHz	64QAM	23330	1RB Low	3.30	13	PASS
10MHz	64QAM	23330	Full RB	4.52	13	PASS
10MHz	256QAM	23330	1RB Low	6.60	13	PASS
10MHz	256QAM	23330	Full RB	6.36	13	PASS

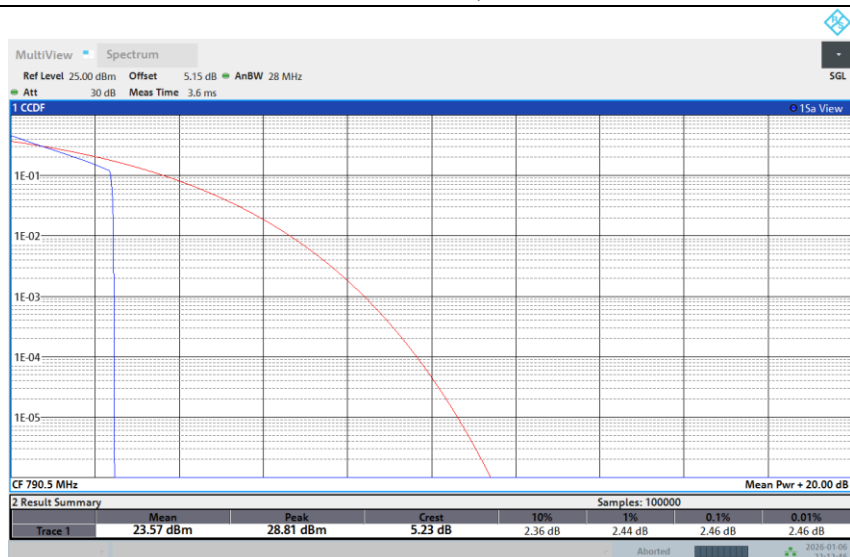
Test Graphs

Band 14-5M-LOW-QPSK-1RB Low

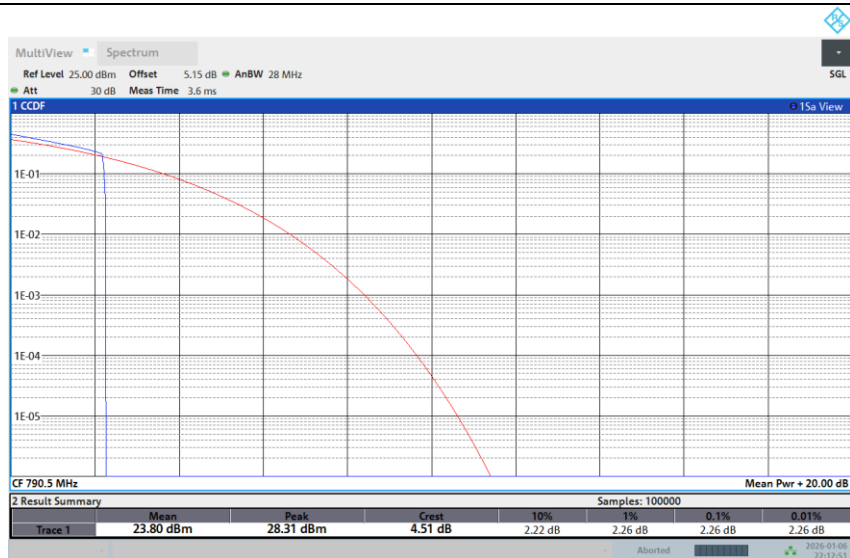
Test Report No. : RF260714B011



Band 14-5M-LOW-QPSK-Full RB



Band 14-5M-LOW-16QAM-1RB Low



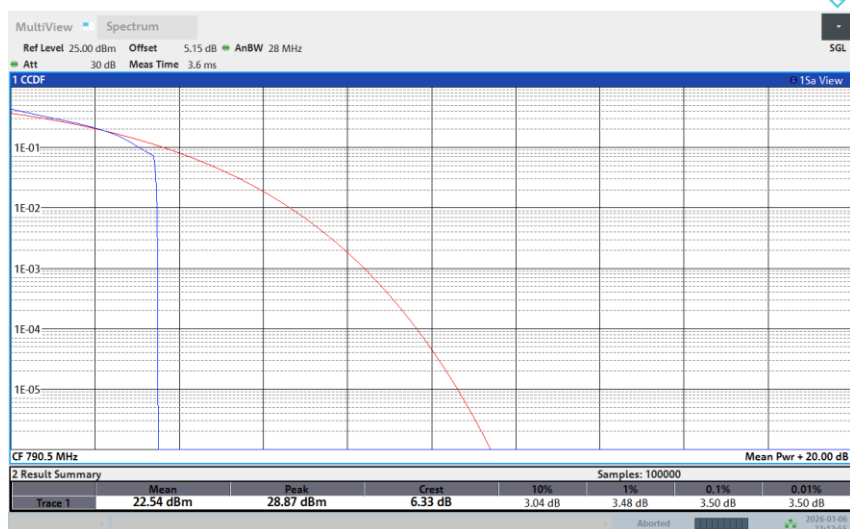
Band 14-5M-LOW-16QAM-Full RB

BOOMWAVE TEST (SHENZHEN)
CO., LTD.

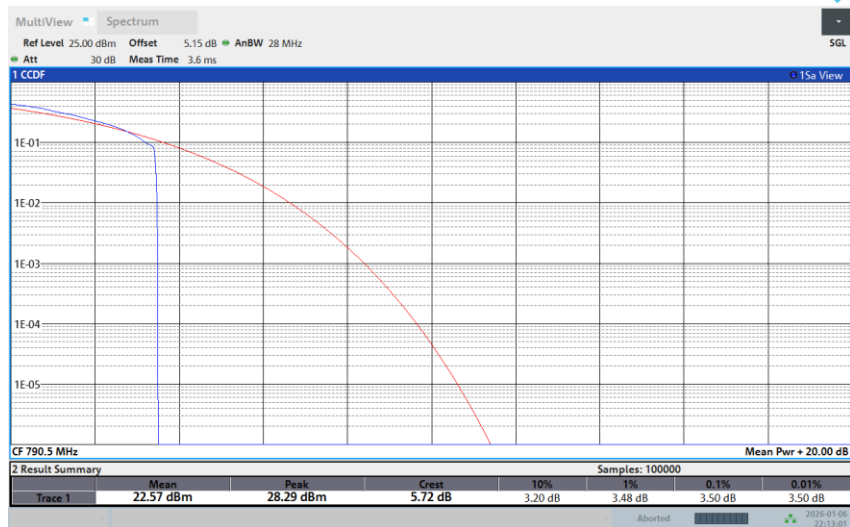
Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan
4th Road, Chiwan Community, Zhaoshang Street,
Nanshan District, Shenzhen, Guangdong, P.R. CHINA

Mobile: +86 15118052731
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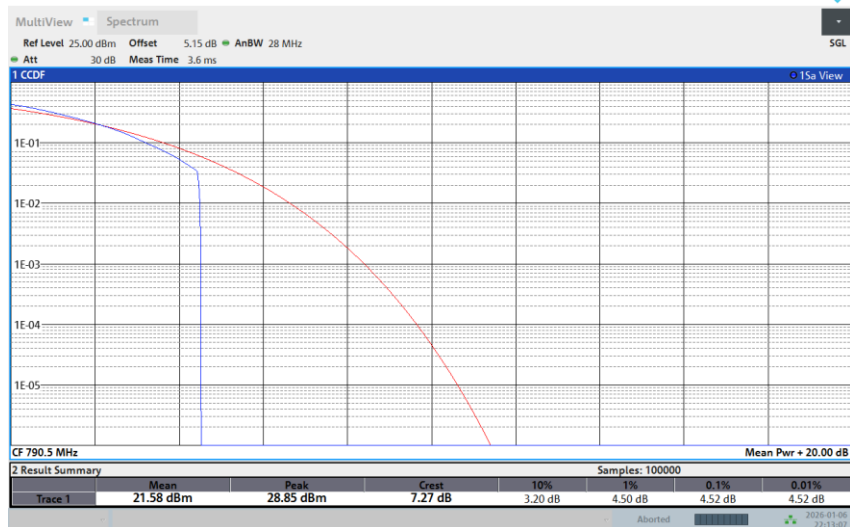
Test Report No. : RF260714B011



Band 14-5M-LOW-64QAM-1RB Low



Band 14-5M-LOW-64QAM-Full RB



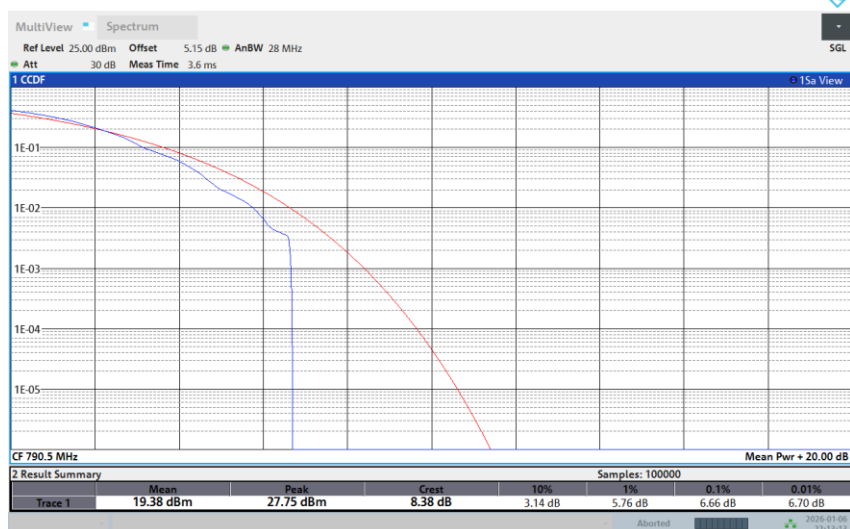
Band 14-5M-LOW-256QAM-1RB Low

BOOMWAVE TEST (SHENZHEN)
CO., LTD.

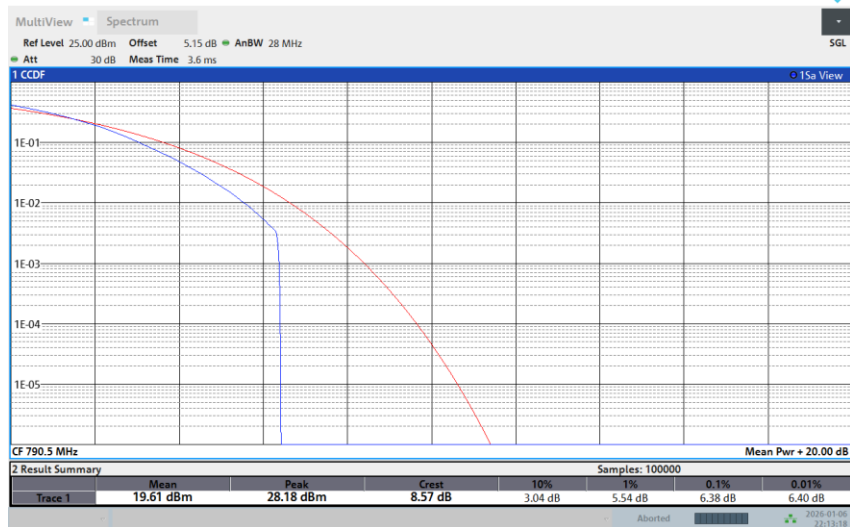
Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan
4th Road, Chiwan Community, Zhaoshang Street,
Nanshan District, Shenzhen, Guangdong, P.R. CHINA

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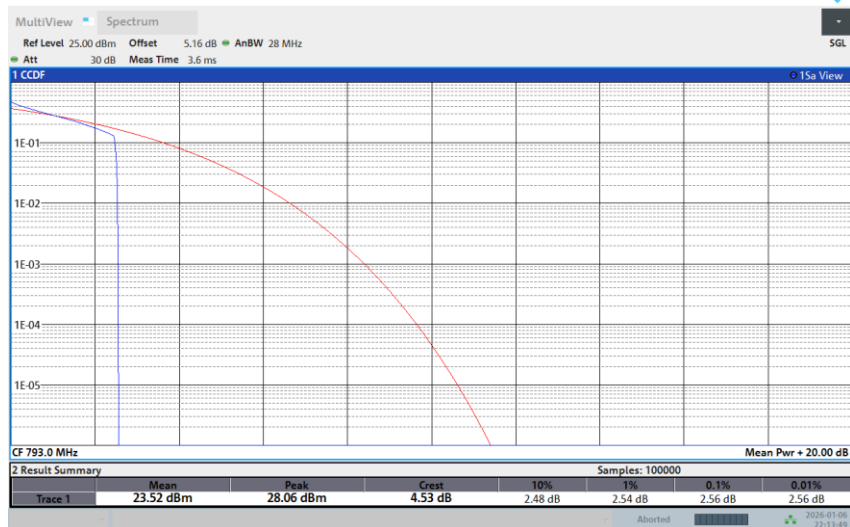
Test Report No. : RF260714B011



Band 14-5M-LOW-256QAM-Full RB



Band 14-5M-MID-QPSK-1RB Low

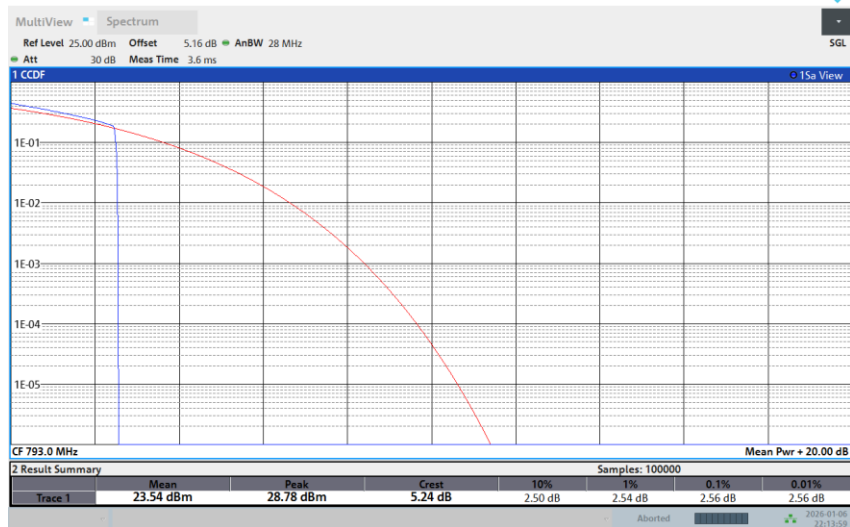


Band 14-5M-MID-QPSK-Full RB

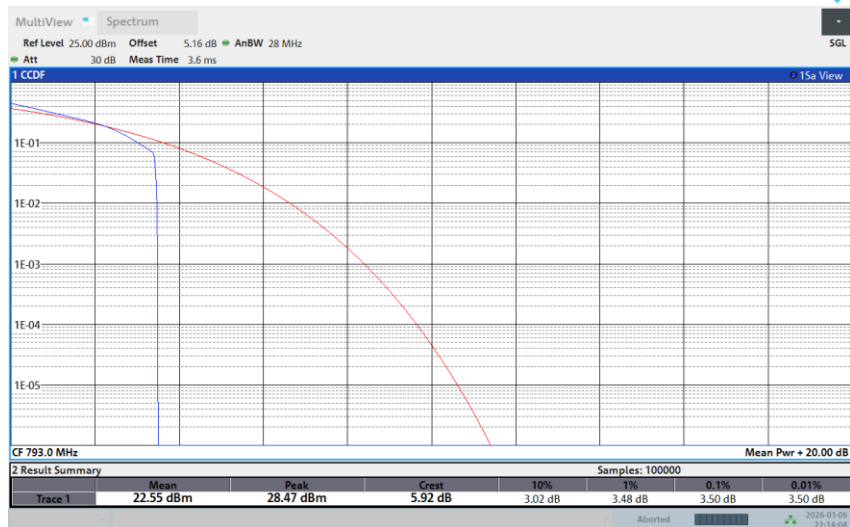
Test Report No. : RF260714B011



Band 14-5M-MID-16QAM-1RB Low



Band 14-5M-MID-16QAM-Full RB



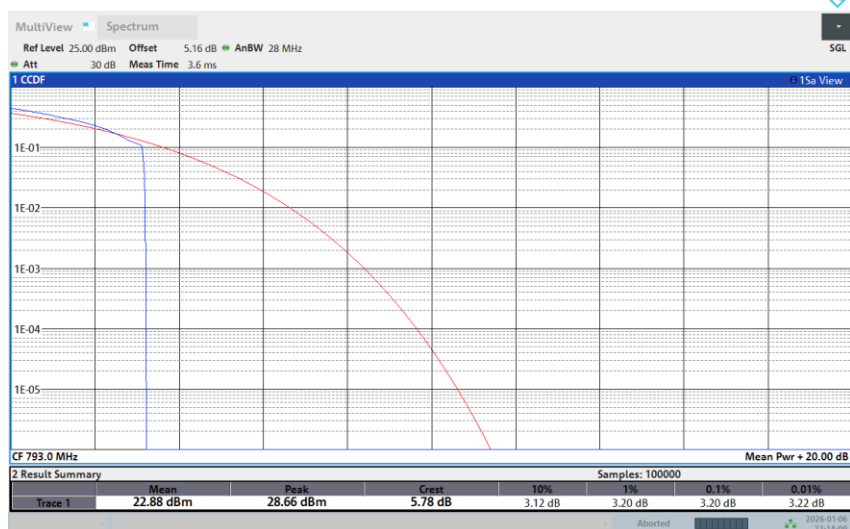
Band 14-5M-MID-64QAM-1RB Low

BOOMWAVE TEST (SHENZHEN)
CO., LTD.

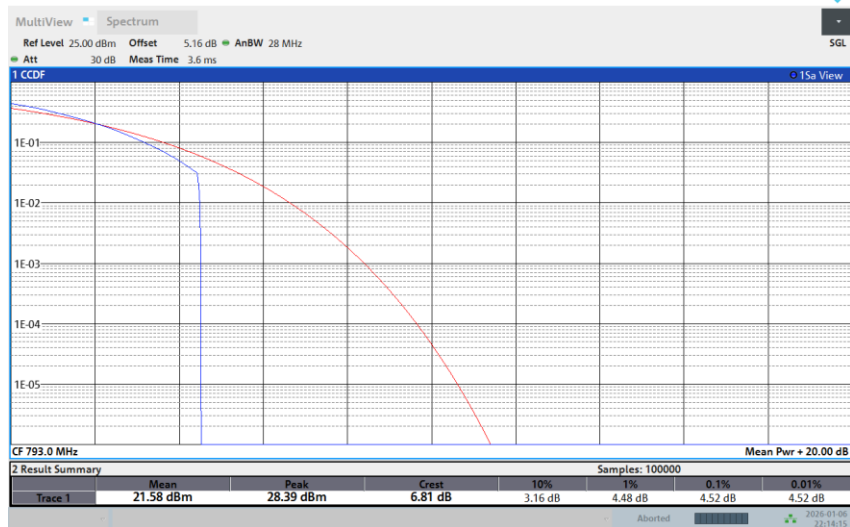
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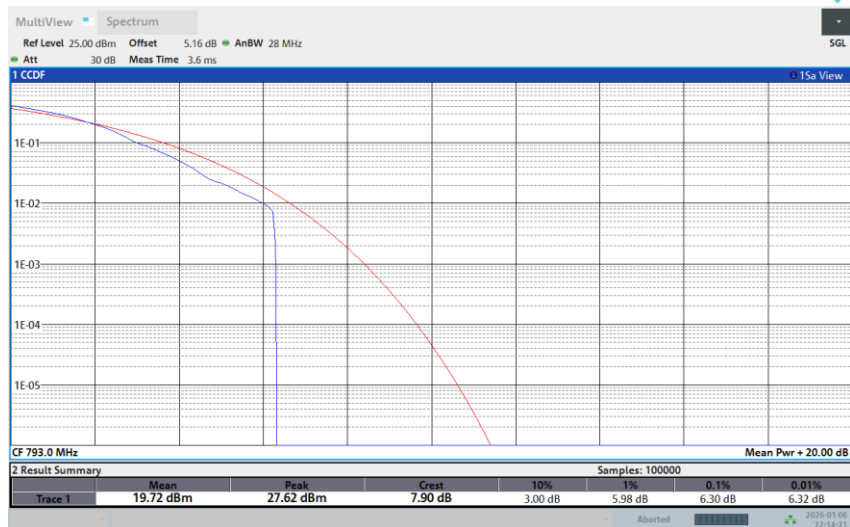
Test Report No. : RF260714B011



Band 14-5M-MID-64QAM-Full RB



Band 14-5M-MID-256QAM-1RB Low

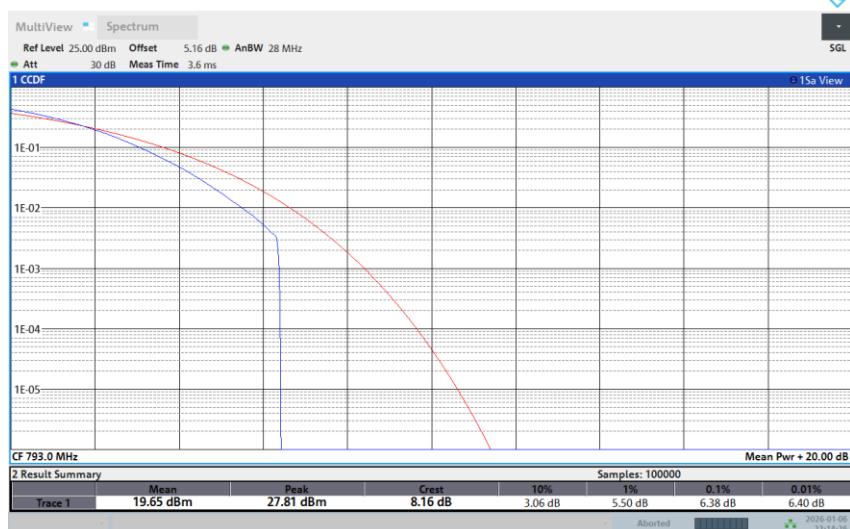


Band 14-5M-MID-256QAM-Full RB

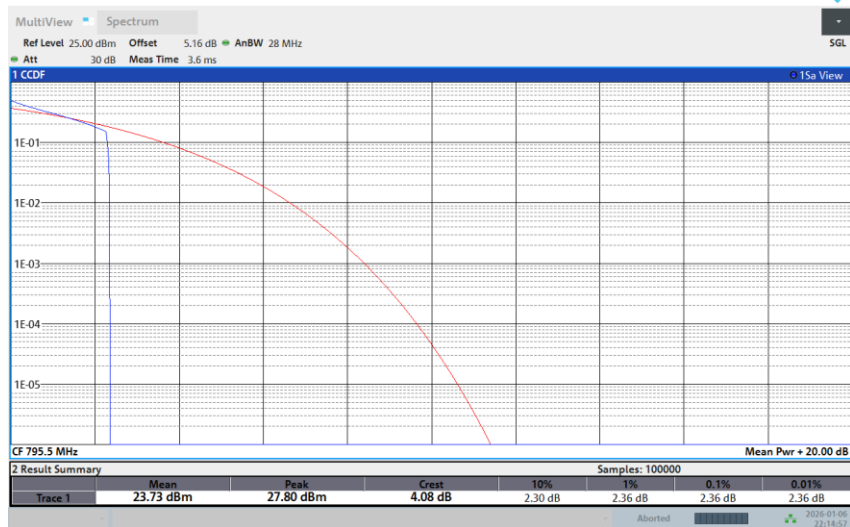
BOOMWAVE TEST (SHENZHEN)
CO., LTD.

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

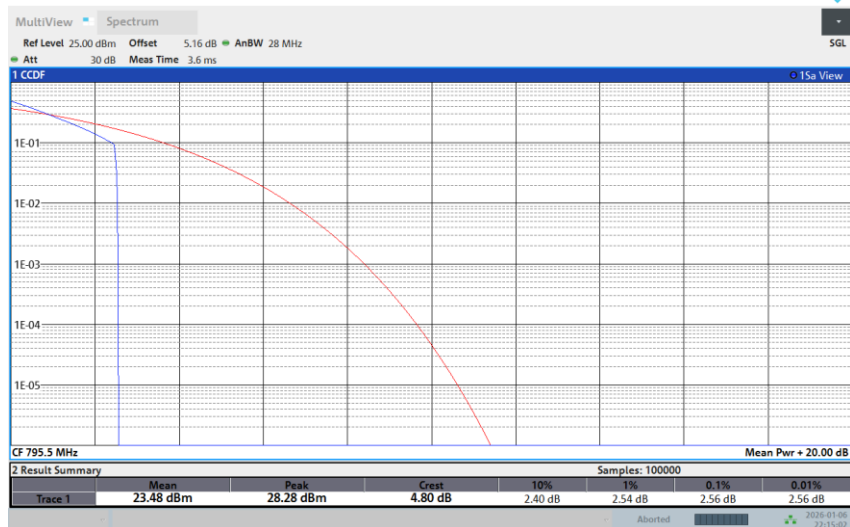
Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com



Band 14-5M-HIGH-QPSK-1RB Low

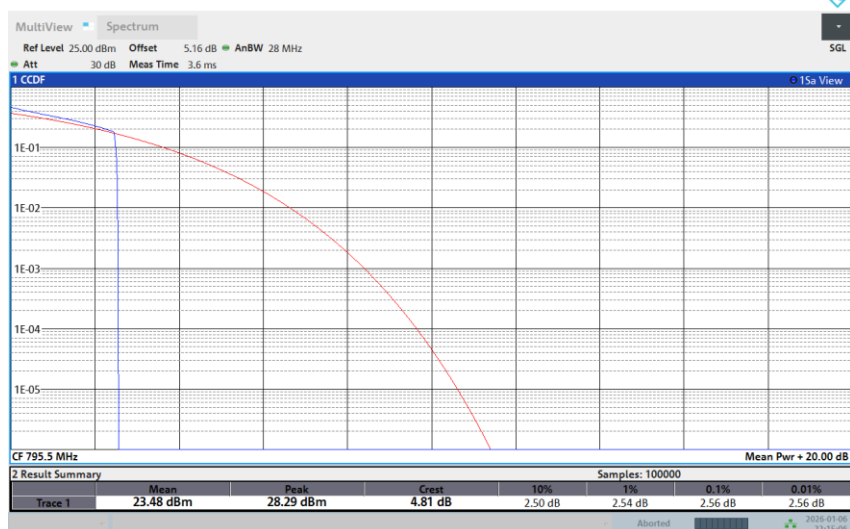


Band 14-5M-HIGH-QPSK-Full RB

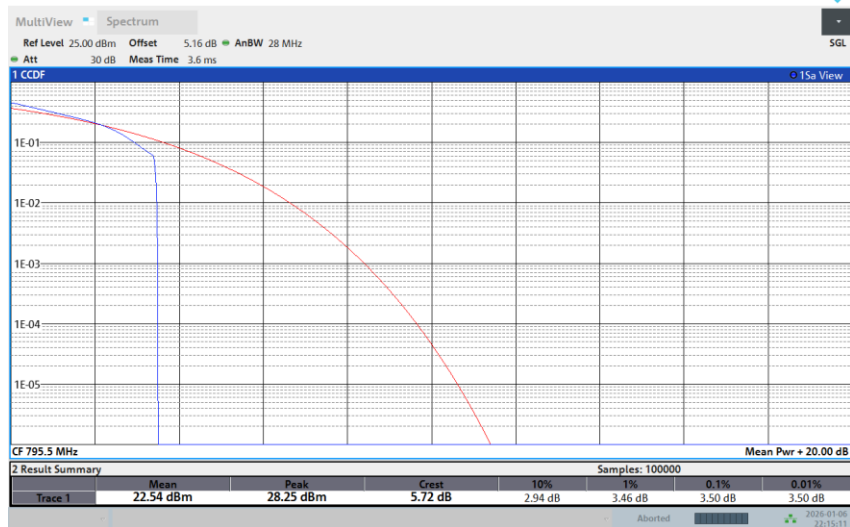


Band 14-5M-HIGH-16QAM-1RB Low

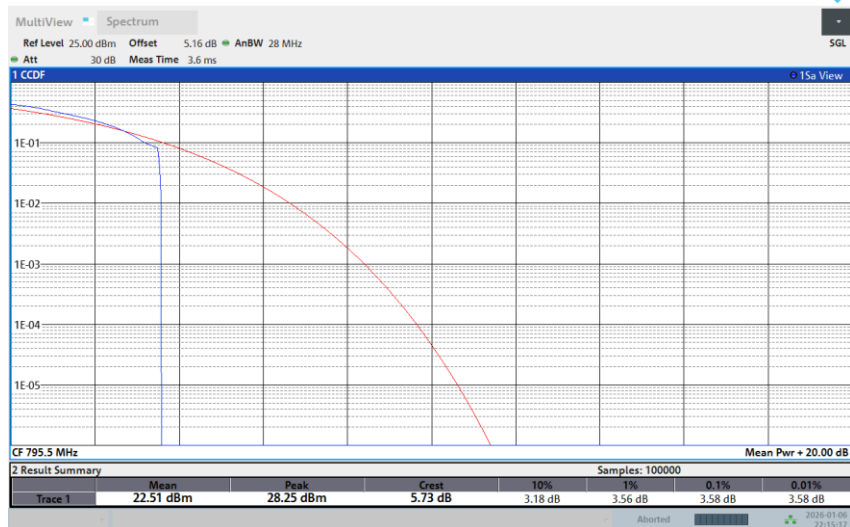
Test Report No. : RF260714B011



Band 14-5M-HIGH-16QAM-Full RB

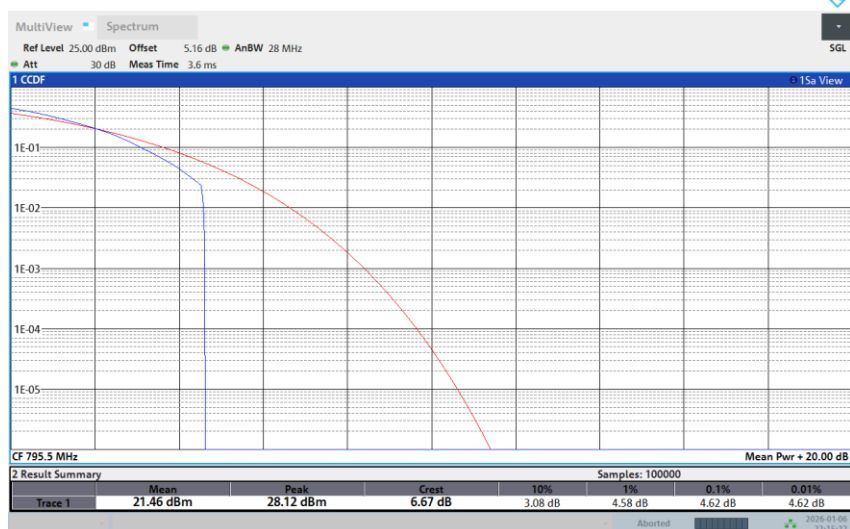


Band 14-5M-HIGH-64QAM-1RB Low

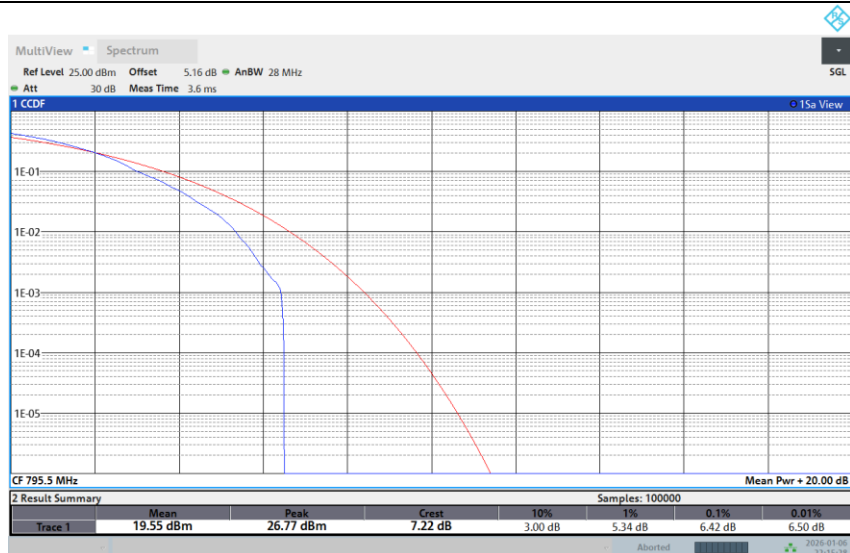


Band 14-5M-HIGH-64QAM-Full RB

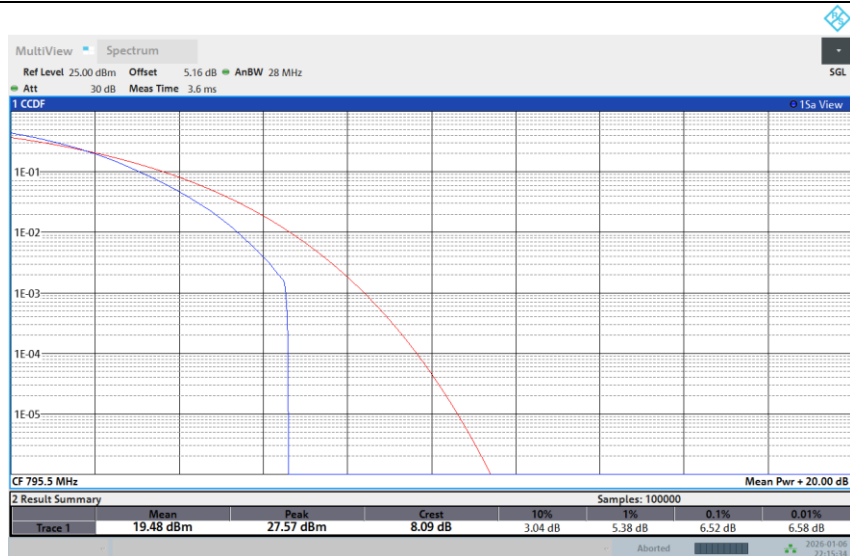
Test Report No. : RF260714B011



Band 14-5M-HIGH-256QAM-1RB Low



Band 14-5M-HIGH-256QAM-Full RB



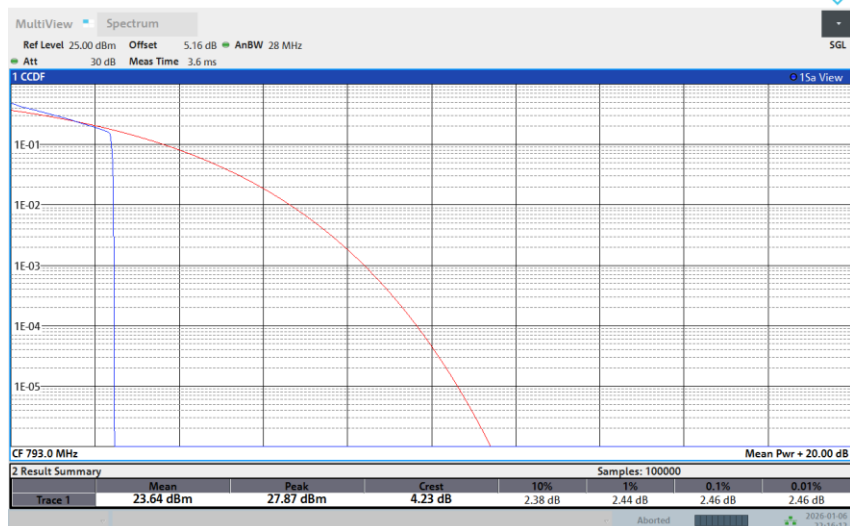
Band 14-10M-MID-QPSK-1RB Low

BOOMWAVE TEST (SHENZHEN)
CO., LTD.

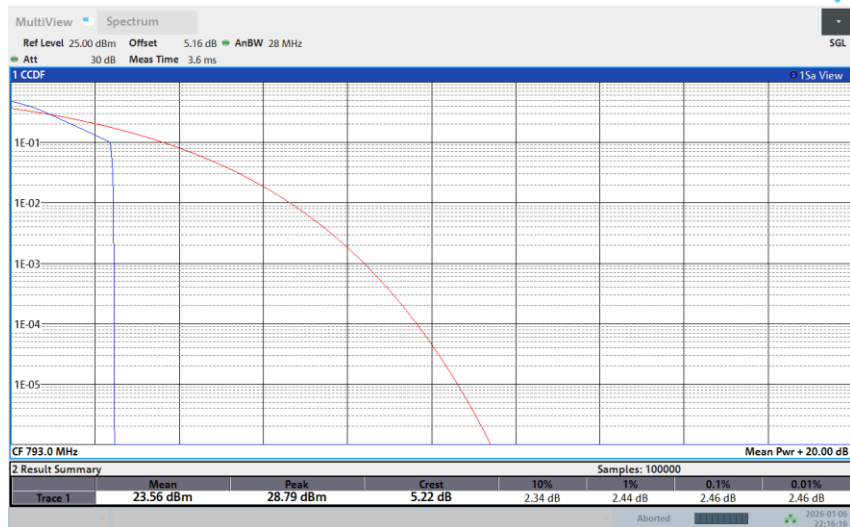
Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan
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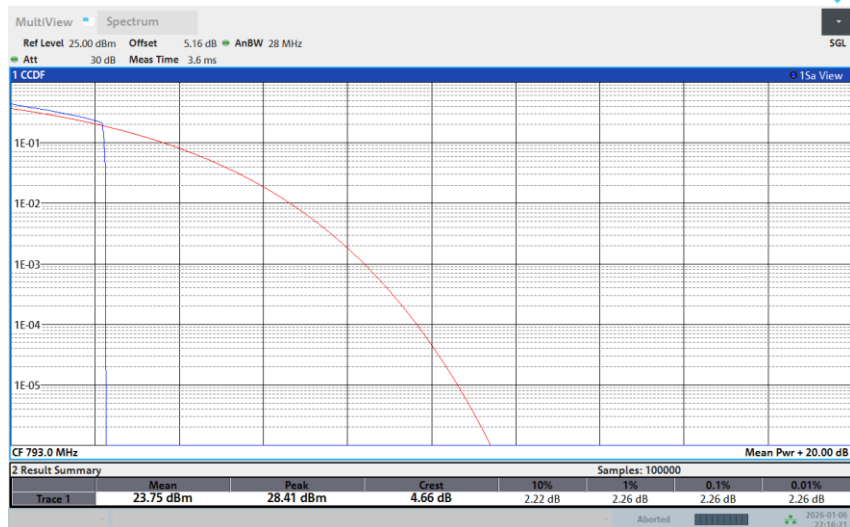
Test Report No. : RF260714B011



Band 14-10M-MID-QPSK-Full RB



Band 14-10M-MID-16QAM-1RB Low



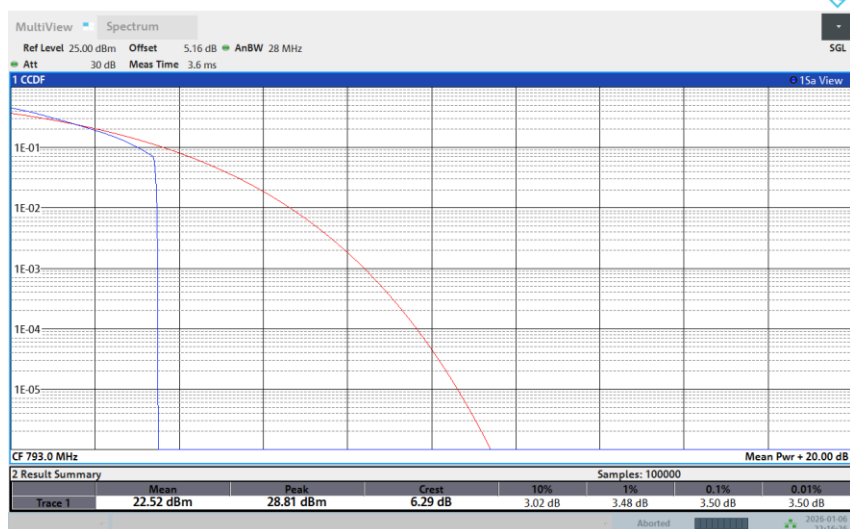
Band 14-10M-MID-16QAM-Full RB

BOOMWAVE TEST (SHENZHEN)
CO., LTD.

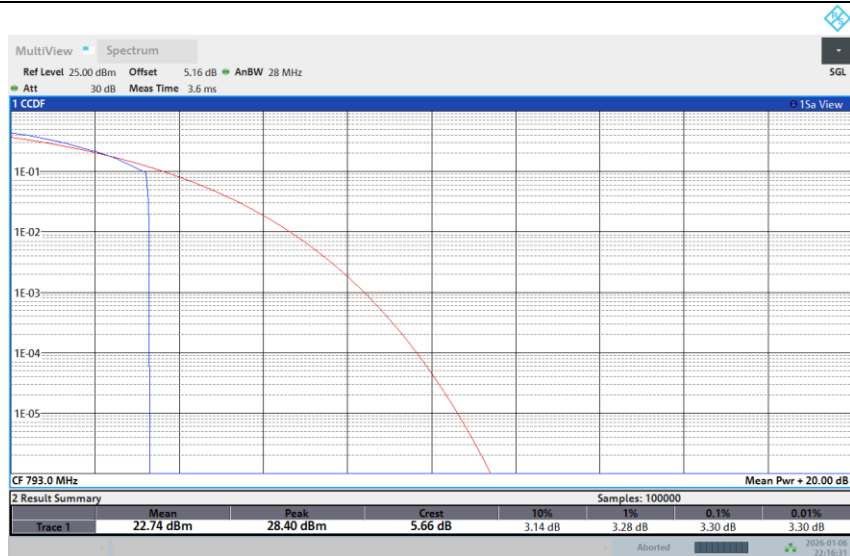
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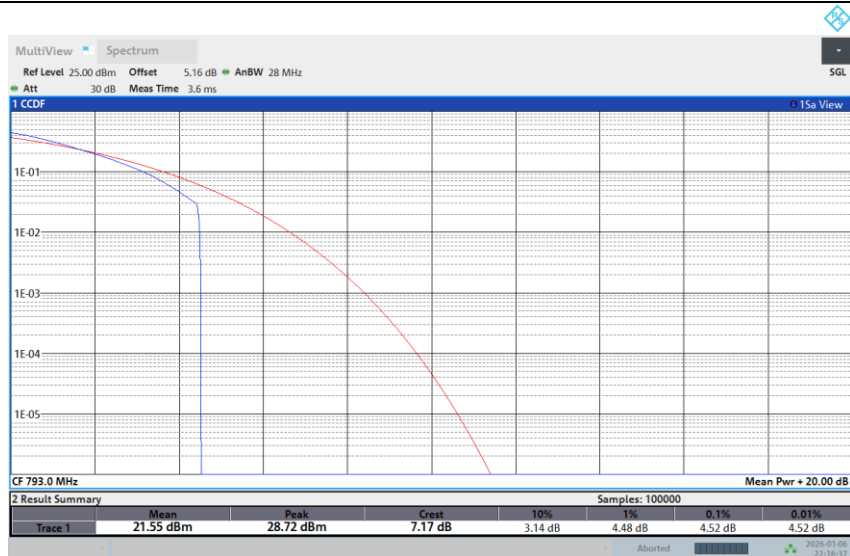
Test Report No. : RF260714B011



Band 14-10M-MID-64QAM-1RB Low



Band 14-10M-MID-64QAM-Full RB



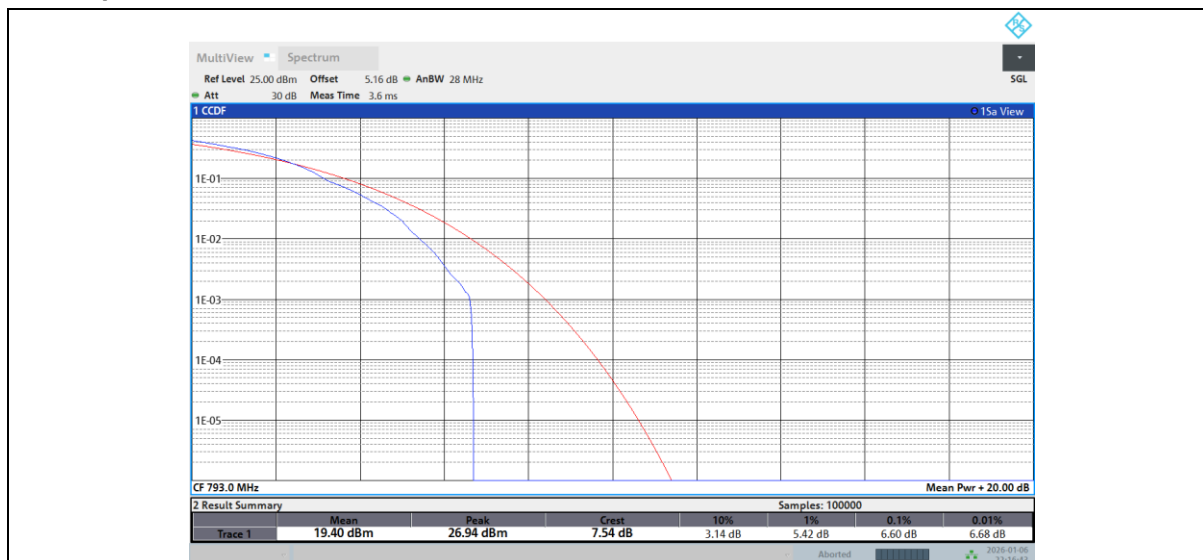
Band 14-10M-MID-256QAM-1RB Low

BOOMWAVE TEST (SHENZHEN)
CO., LTD.

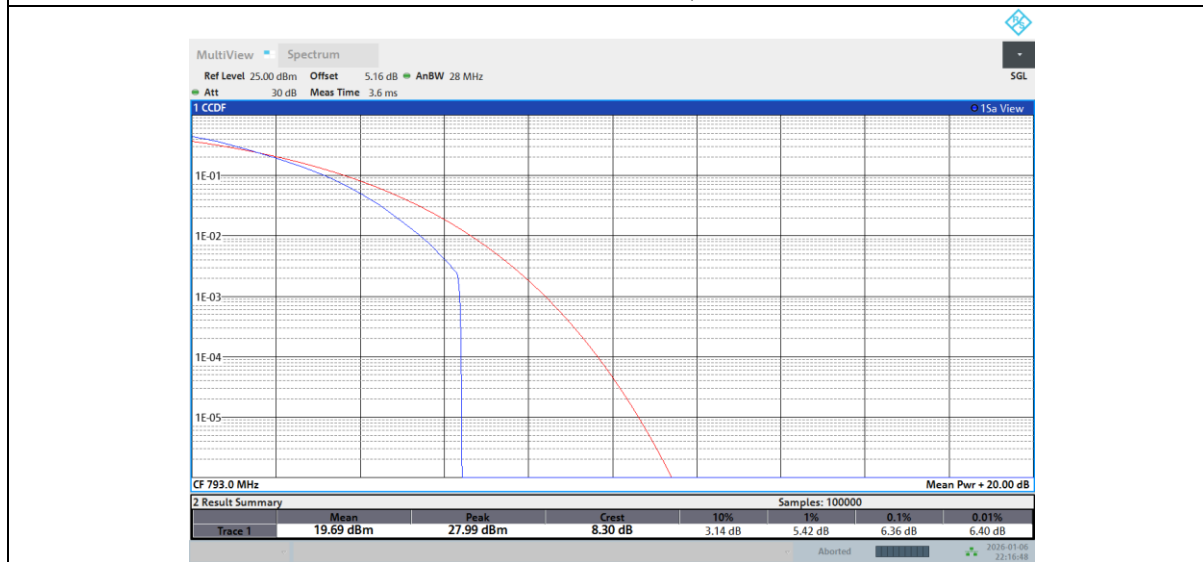
Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan
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Test Report No. : RF260714B011



Band 14-10M-MID-256QAM-Full RB



26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

LTE band 14(99%)

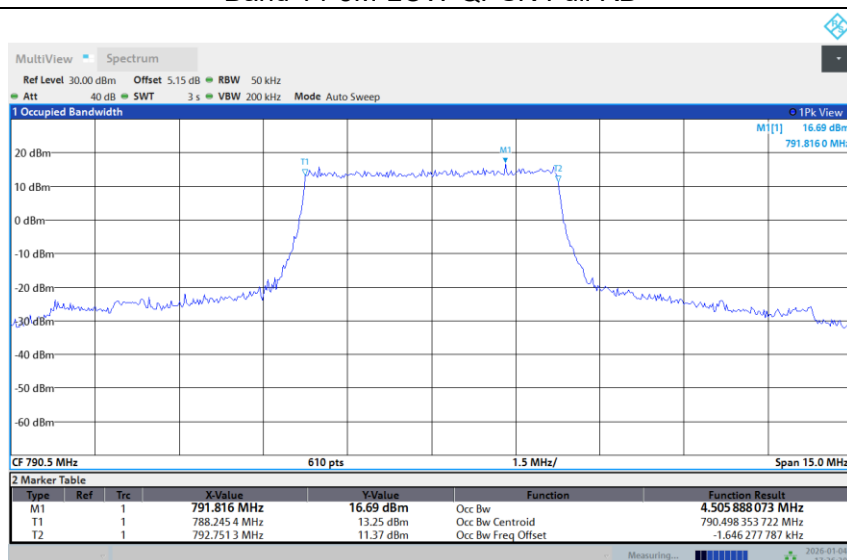
Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth(MHz)	Verdict
5MHz	QPSK	23305	Full RB	4.506	PASS
5MHz	16QAM	23305	Full RB	4.503	PASS
5MHz	64QAM	23305	Full RB	4.497	PASS
5MHz	256QAM	23305	Full RB	4.508	PASS
5MHz	QPSK	23330	Full RB	4.484	PASS
5MHz	16QAM	23330	Full RB	4.486	PASS
5MHz	64QAM	23330	Full RB	4.486	PASS
5MHz	256QAM	23330	Full RB	4.492	PASS
5MHz	QPSK	23355	Full RB	4.489	PASS
5MHz	16QAM	23355	Full RB	4.495	PASS

Test Report No. : RF260714B011

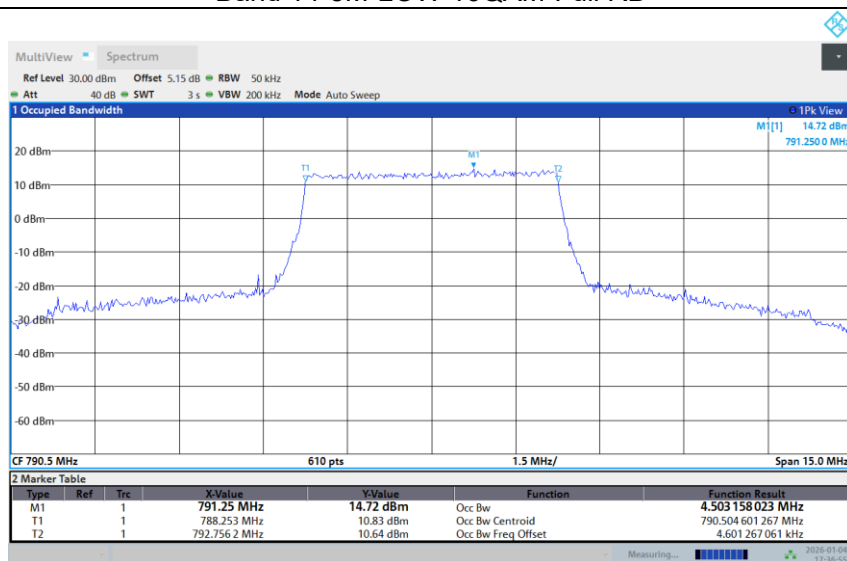
5MHz	64QAM	23355	Full RB	4.493	PASS
5MHz	256QAM	23355	Full RB	4.489	PASS
10MHz	QPSK	23330	Full RB	8.942	PASS
10MHz	16QAM	23330	Full RB	8.935	PASS
10MHz	64QAM	23330	Full RB	8.924	PASS
10MHz	256QAM	23330	Full RB	8.943	PASS

Test Graphs

Band 14-5M-LOW-QPSK-Full RB



Band 14-5M-LOW-16QAM-Full RB



Band 14-5M-LOW-64QAM-Full RB