

FCC TEST REPORT

(PART 22)

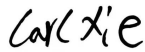
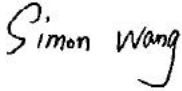
Applicant:	MeiG Smart Technology Co., Ltd
Address:	2nd Floor,Office Building,No.5 Lingxia Road,Fenghuang,Fuyong Street,Bao'an District,Shenzhen

Manufacturer or Supplier:	MeiG Smart Technology Co., Ltd
Address:	2nd Floor,Office Building,No.5 Lingxia Road,Fenghuang,Fuyong Street,Bao'an District,Shenzhen
Product:	SRM813Q
Brand Name:	MEIGLink
Model Name:	SRM813Q
FCC ID	2APJ4-SRM813Q
Date of tests	May. 21, 2026 ~ Jun. 23, 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
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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: Jun. 23, 2026	Date: Jun. 23, 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
RF260623B001	Original release	Jun. 23, 2026

Note: The single module is an LCC module. There are two types of small substrates at the bottom of the module. One is in M.2 form, and the other is in MINIPCIE form. The modules welded on the top of the two types of small substrates are exactly the same; it's just that the shapes of the small substrates are different, which will not affect the RF indicators.

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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

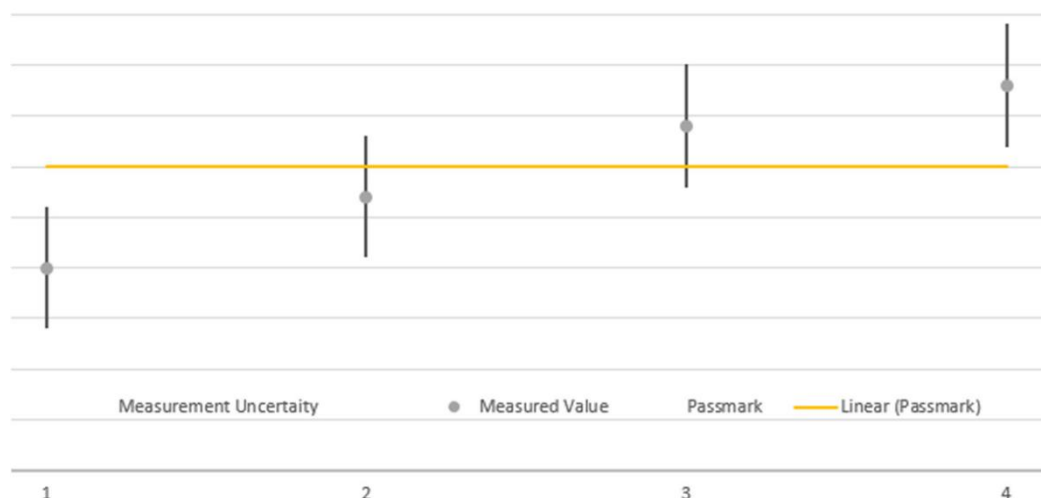
The FCC Site Registration No. is 646781; The Designation No. is CN1429.

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.

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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	2026/7/2
BiConiLog Antenna	ETS-LINDGREN	3143B	161965	2025/7/17	2026/7/16
Horn Antenna	SCHWARZBECK	BBHA9120D	3297	2025/9/27	2026/9/26
Horn Antenna	STEATITE	QWH-SL-18-40-K-SG QMS-00361	15433	2025/7/19	2026/7/18
Preamplifier	Tonscend	TPA184045	AP24L8060388	2025/7/3	2026/7/2
MXE EMI Receiver	keysight	N9038B	MY50018017	2025/7/1	2026/6/30
MXG Vector Signal Generator	Keysight	N5183B	MY59100137	2025/6/30	2026/6/29
Preamplifier	Tonscend	TPA001330	806JSAPO40804251015	2025/6/30	2026/6/29
Preamplifier	Tonscend	TPA011845	AP24L8060392	2025/6/30	2026/6/29
Attenuator 6DB	SHX	TS2-6-6-A	230927166	2025/6/30	2026/6/29
Attenuator 6DB	SHX	TS2-6-6-A	230927165	2025/6/30	2026/6/29
Active Receive Loop Antenna	SCHWARZBECK	FMZB 1519 B	00173	2025/6/30	2026/6/29
Temp. & Humi. Recorder	Kejian	HTC-01	157246	2025/7/2	2026/7/1
HIGH pass FILTER 1-18	EWT	EWT-57-0222	EWT-57-0222	2025/6/30	2026/6/29
HIGH pass FILTER 7-18	EWT	EWT-57-0223	EWT-57-0223	2025/6/30	2026/6/29
HIGH pass FILTER 3-18	EWT	EWT-57-0221	EWT-57-0221	2025/6/30	2026/6/29
DC~1GHz Lowpass Filter	EWT	EWT-56-0649	EWT-56-0649	2025/7/3	2026/7/2
Cable 1	N/A	N/A	N/A	2025/9/28	2026/9/27
Cable 2	N/A	N/A	N/A	2025/9/28	2026/9/27
Cable 3	N/A	N/A	N/A	2025/9/28	2026/9/27
Wireless communication integrated tester	Rohde&Schwarz	CMW500	182016	2025/6/30	2026/6/29
EXA Signal Analyzer	KEYSIGHT	N9010B	MY62170156	2025/6/30	2026/6/29
RF Control Unit	Tonscend	JS0806-1	21K8060504	2025/6/16	2026/6/15
DC Power Supply	AGILENT	HMP2020	100598	2025/7/1	2026/6/30
10dB attenuator	JFW INDUSTRIES INC	50HF-010-SMA	50HF-010-SMA-1	2025/6/30	2026/6/29
10dB attenuator	JFW INDUSTRIES INC	50HF-010-SMA	50HF-010-SMA-2	2025/6/30	2026/6/29
hygrothermograph	Anymeters	----	TH101B	2025/7/22	2026/7/21
Temperature Box	zhongkemeiqi	MA22040172	MQ-DTH50F-2	2025/7/1	2026/6/30
power divider	WOKEN	71688	204-003180-01	2025/6/30	2026/6/29



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NOTE:

1. The calibration interval of the above test instruments is 12 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.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	SRM813Q	
BRAND NAME	MEIGLink	
MODEL NAME	SRM813Q	
NOMINAL VOLTAGE	3.8Vdc	
MODULATION TYPE	LTE	QPSK, 16QAM, 64QAM
	5G NR	DFT-s-OFDM(Pi/2BPSK,QPSK,16QAM,64QAM,256QAM); CP-OFDM(QPSK,16QAM,64QAM,256QAM);
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
	NR Band N5	826.5MHz ~ 846.5MHz
	NR Band N26	826.5MHz ~ 846.5MHz
MAX. ERP POWER	LTE Band 5 (Channel Bandwidth: 1.4MHz)	207.01mW

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	LTE Band 5 (Channel Bandwidth: 3MHz)	208.45mW
	LTE Band 5 (Channel Bandwidth: 5MHz)	205.59mW
	LTE Band 5 (Channel Bandwidth: 10MHz)	208.93mW
	LTE Band 26 (Channel Bandwidth: 1.4MHz)	225.42mW
	LTE Band 26 (Channel Bandwidth: 3MHz)	225.94mW
	LTE Band 26 (Channel Bandwidth: 5MHz)	229.09mW
	LTE Band 26 (Channel Bandwidth: 10MHz)	228.03mW
	LTE Band 26 (Channel Bandwidth: 15MHz)	230.14mW
MAX. ERP POWER	NR Band N5 (Channel Bandwidth: 5MHz)	192.75mW
	NR Band N5 (Channel Bandwidth: 10MHz)	196.34mW
	NR Band N5 (Channel Bandwidth: 15MHz)	194.45mW
	NR Band N5 (Channel Bandwidth: 20MHz)	199.07mW
	NR Band N26 (Channel Bandwidth: 5MHz)	200.45mW
	NR Band N26 (Channel Bandwidth: 10MHz)	199.99mW
	NR Band N26 (Channel Bandwidth: 15MHz)	200.45mW
	NR Band N26 (Channel Bandwidth: 20MHz)	205.12mW
EMISSION DESIGNATOR GGN	LTE Band 26 (Channel Bandwidth: 1.4MHz)	QPSK: 1M11G7D
		16QAM: 1M12W7D
		64QAM: 1M11W7D
	LTE Band 26 (Channel Bandwidth: 1.4MHz)	QPSK: 2M70G7D
		16QAM: 2M71W7D

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	3MHz)	64QAM: 2M70W7D
	LTE Band 26 (Channel Bandwidth: 5MHz)	QPSK: 4M52G7D
		16QAM: 4M52W7D
		64QAM: 4M51W7D
	LTE Band 26 (Channel Bandwidth: 10MHz)	QPSK: 9M01G7D
		16QAM: 9M02W7D
		64QAM: 9M01W7D
	LTE Band 26 (Channel Bandwidth: 15MHz)	QPSK: 13M5G7D
		16QAM: 13M5W7D
		64QAM: 13M5W7D
	NR Band N26 (Channel Bandwidth: 5MHz)	QPSK: 4M51G7D
		16QAM: 4M53W7D
ANTENNA GAIN		64QAM: 4M52W7D
		256QAM:4M56G7D
		Pi/2BPSK: 4M51G7D
	NR Band N26 (Channel Bandwidth: 10MHz)	QPSK: 8M93G7D
		16QAM: 8M94W7D
		64QAM: 8M93W7D
		256QAM:8M93G7D
		Pi/2BPSK: 8M94G7D
	NR Band N26 (Channel Bandwidth: 15MHz)	QPSK: 13M4G7D
		16QAM: 13M4W7D
		64QAM: 13M3W7D
		256QAM:13M4G7D
ANTENNA TYPE		Pi/2BPSK: 13M4G7D
	NR Band N26 (Channel Bandwidth: 20MHz)	QPSK: 17M9G7D
		16QAM: 17M8W7D
		64QAM: 17M7W7D
		256QAM:17M8G7D
		Pi/2BPSK: 17M9G7D
	☒ Provided by client	
	LTE B5	1.87dBi
	LTE B26	2.06dBi
	NR N5	2.11dBi
	NR N26	2.06dBi
	External Antenna	
HW VERSION	SRM813Q-NA_MB_V1.00	
SW VERSION	SRM813Q-NA_2.0.3_EQ100	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	N/A	

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EXTREME TEMPERATURE	-40°C~85°C
EXTREME VOLTAGE	3.3V~4.35V

NOTE:

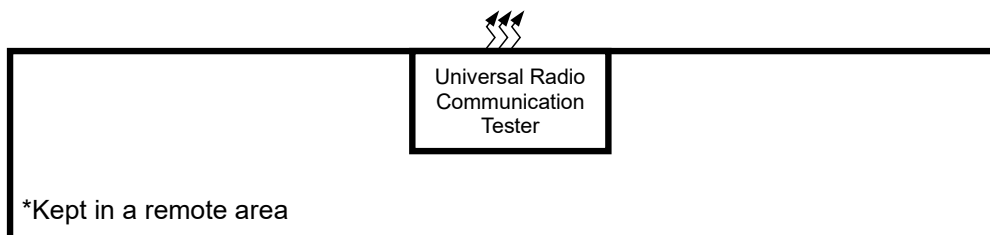
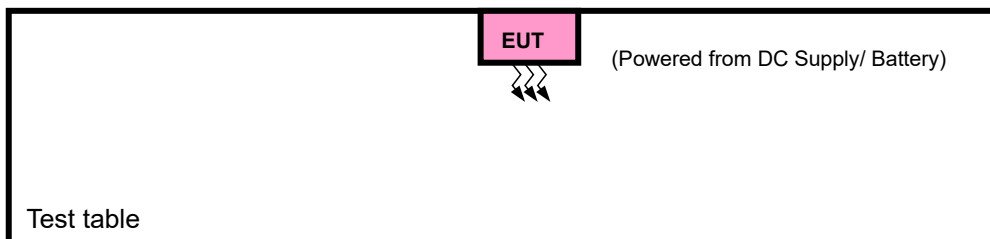
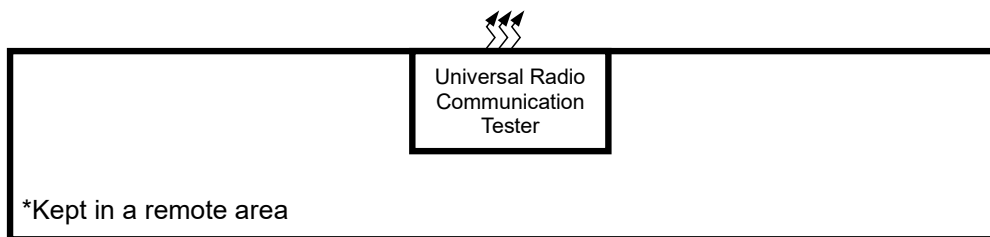
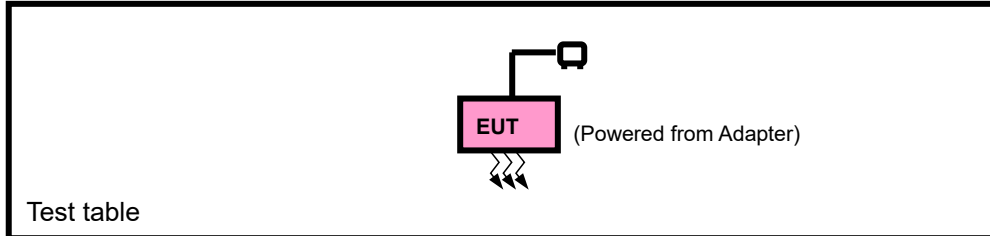
1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and two receivers.

MODULATION MODE	TX FUNCTION
LTE	1TX/2RX
5G NR	1TX/2RX

3. 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



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2.3 DESCRIPTION OF SUPPORT UNITS

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

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Laptop	Lenovo	ThinkPad E14	HRSW00024	N/A
2	DC Source	HYELEC	HY3010B	551016	N/A

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

2.4 TEST ITEM AND TEST CONFIGURATION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case in ERP and radiated emission was found when positioned on X-plane for LTE/5G NR. Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	DESCRIPTION
A	EUT + Adapter with LTE or 5G NR link
B	EUT + DC Supply with LTE or 5G NR link

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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, 64QAM	1 RB / 0 RB offset
		20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset
		20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset
		20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset
A	RADIATED EMISSION	20450 to 20600	20525	1.4MHz	16QAM	1 RB / 0 RB offset
		20415 to 20635	20525	3MHz	16QAM	1 RB / 0 RB offset
		20425 to 20625	20525	5MHz	16QAM	1 RB / 0 RB offset
		20450 to 20600	20450, 20525, 20600	10MHz	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
3. For Radiated Emission, we tested all the channel bandwidths, but only shows the worst data in the report.

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, 64QAM	1 RB / 0 RB offset
		26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset
		26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset
		26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset
		26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset
B	FREQUENCY STABILITY	26840 to 26990	26840, 26990	10MHz	QPSK	50 RB / 0 RB offset
A	OCCUPIED BANDWIDTH	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM, 64QAM	6 RB / 0 RB offset
		26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM, 64QAM	15 RB / 0 RB offset
		26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM, 64QAM	25 RB / 0 RB offset
		26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM, 64QAM	50 RB / 0 RB offset
		26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM, 64QAM	75 RB / 0 RB offset
A		26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset 6 RB / 0 RB offset

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	PEAK TO AVERAGE RATIO	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset 15 RB / 0 RB offset
		26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM, 64QAM	1 RB / 14 RB offset 25 RB / 0 RB offset
		26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM, 64QAM	1 RB / 49 RB offset 50 RB / 0 RB offset
		26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset 75 RB / 0 RB offset
A	BAND EDGE	26797 to 27033	26797	1.4 MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset 6 RB / 0 RB offset
		26797 to 27033	27033	1.4 MHz	QPSK, 16QAM, 64QAM	1 RB / 5 RB offset 6 RB / 0 RB offset
		26805 to 27025	26805	3 MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset 15 RB / 0 RB offset
		26805 to 27025	27025	3 MHz	QPSK, 16QAM, 64QAM	1 RB / 14 RB offset 15 RB / 0 RB offset
		26815 to 27015	26815	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset 25 RB / 0 RB offset
		26815 to 27015	27015	5MHz	QPSK, 16QAM, 64QAM	1 RB / 24 RB offset 25 RB / 0 RB offset
		26840 to 26990	26840	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset 50 RB / 0 RB offset
		26840 to 26990	26990	10MHz	QPSK, 16QAM, 64QAM	1 RB / 49 RB offset 50 RB / 0 RB offset
		26865 to 26965	26865	15MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset 75 RB / 0 RB offset
		26865 to 26965	26965	15MHz	QPSK, 16QAM, 64QAM	1 RB / 74 RB offset 75 RB / 0 RB offset
A	CONDCUETED EMISSION	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset
		26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset
		26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset
		26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM, 64QAM	1 RB / 0 RB offset
		26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM, 64QAM	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	26915	10MHz	QPSK	1 RB / 0 RB offset

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		26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB / 0 RB offset
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Note:

1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.
2. For Radiated Emission, we tested all the channel bandwidths, but only shows the worst data in the report.

NR BAND N5 MODE

EUT CONFIGURE MODE	TEST ITEM	Available Channel	Tested Channel	Channel bandwidth	modulation	mode
A	ERP	165300 to 169300	165300,167300, 169300	5MHz	QPSK	1 RB / 0 RB offset
		165800 to 168800	165800,167300, 168800	10MHz	QPSK	1 RB / 0 RB offset
		166300 to 168300	166300,167300, 168300	15MHz	QPSK	1 RB / 0 RB offset
		167300	167300	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1 RB / 0 RB offset
A	RADIATED EMISSION	165300 to 169300	167300	5MHz	QPSK	1 RB / 0 RB offset
		165800 to 168800	167300	10MHz	QPSK	1 RB / 0 RB offset
		166300 to 168300	167300	15MHz	QPSK	1 RB / 0 RB offset
		1666800,167800	1666800,167300,167800	20MHz	QPSK	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. NR BAND N5 are covered by NR Band N26, Because it is a subset of NR Band N26 with the same output power and supported bandwidths, So the test data please refer to NR Band N26
3. For Radiated Emission, we tested all the channel bandwidths, but only shows the worst data in the report.

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NR BAND N26 MODE

EUT CONFIGUR E MODE	TEST ITEM	AVAILABL E CP- OFDM CHANNEL	AVAILABLE DFT-S- OFDM CHANNEL	TESTED CHANNE L	CHANNEL BANDWIDT H	MODULATION	MODE(DF T-S-OFDM) (INCLUDE CP-OFDM)
A	ERP	165300 to 169300	165300,167300, 169300	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		165800 to 168800	165800,167300, 168800	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		166300 to 168300	166300,167300, 168300	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		166800 to 167800	16800,167300, 167800	Low, Middle, High	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	1RB/ 0RB Offset
B	FREQUENC Y STABILITY	165800 to 168800	165800,167300, 168800	Middle	10MHz	QPSK	Outer_ Full
A	PEAK TO AVERAGE RATIO	165300 to 169300	165300,167300, 169300	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
		165800 to 168800	165800,167300, 168800	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
		166300 to 168300	166300,167300, 168300	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
		166800 to 167800	16800,167300, 167800	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
A	OCCUPIED BANDWIDTH	165300 to 169300	167300	Middle	5MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		165800 to 168800	167300	Middle	10MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		166300 to 168300	167300	Middle	15MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
		166800 to 167800	167300	Middle	20MHz	Pi/2BPSK,QPSK,16QAM, 64QAM, 256QAM	Outer_ Full
A	BAND EDGE	165300 to 169300	165300 to 169300	Low	5MHz	QPSK	1RB/ 0RB Offset
				High	5MHz	QPSK	Outer_ Full
							Outer_ Full
				Low	10MHz	QPSK	1RB/ 0RB Offset
		165800 to 168800	165800 to 168800	High	10MHz	QPSK	Outer_ Full
							Outer_ Full
				Low	10MHz	QPSK	1RB/ 0RB Offset
							Outer_ Full
		166300 to 168300	166300 to 168300	Low	10MHz	QPSK	1RB/ 0RB Offset

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							Outer Full
				High	10MHz	QPSK	1RB/ 0RB Offset
		166800 to 167800	166800 to 167800	Low	20MHz	QPSK	Outer Full
							1RB/ 0RB Offset
				High	20MHz	QPSK	Outer Full
							1RB/ 0RB Offset
A	CONDUCTED EMISSION	165300 to 169300	165300,167300, 169300	Low, Middle, High	5MHz	QPSK	1RB/ 0RB Offset
		165800 to 168800	165800,167300, 168800	Low, Middle, High	10MHz	QPSK	1RB/ 0RB Offset
		166300 to 168300	166300,167300, 168300	Low, Middle, High	15MHz	QPSK	1RB/ 0RB Offset
		166800 to 167800	166800,167300, 167800	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset
A	RADIATED EMISSION	165300 to 169300	167300	Middle	5MHz	QPSK	1RB/ 0RB Offset
		165800 to 168800	167300	Middle	10MHz	QPSK	1RB/ 0RB Offset
		166300 to 168300	167300	Middle	15MHz	QPSK	1RB/ 0RB Offset
		166800 to 167800	166800,167300,167800	Low, Middle, High	20MHz	QPSK	1RB/ 0RB Offset

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

2. The test data presented in the report from worst SA_n26

3. For Radiated Emission, we tested all the channel bandwidths, but only shows the worst data in the report.

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TEST CONDITION			
TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	23deg. C, 70%RH	DC 3.8V By Battery	Carl Xie
FREQUENCY STABILITY	23deg. C, 70%RH	DC 3.3V/ 3.8V/ 4.35V By DC Source	Alan Yu
OCCUPIED BANDWIDTH	23deg. C, 70%RH	DC 3.8V By Battery	Alan Yu
BAND EDGE	23deg. C, 70%RH	DC 3.8V By Battery	Alan Yu
CONDCUDED EMISSION	23deg. C, 70%RH	DC 3.8V By Battery	Alan Yu
RADIATED EMISSION	23deg. C, 70%RH	AC 120V/60Hz	Carl Xie
PEAK TO AVERAGE RATIO	23deg. C, 70%RH	DC 3.8V By Battery	Alan Yu

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 WCDMA link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

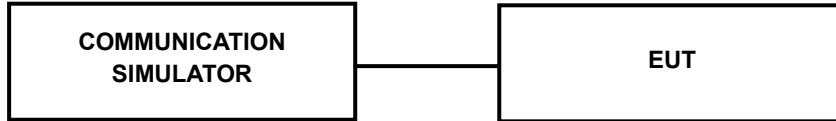


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3.1.3 TEST SETUP

EIRP / ERP Measurement:

CONDUCTED POWER MEASUREMENT:



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3.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm):

LTE Band 5						
Band/BW	Modulation	RB Size	RB offset	Low CH20407	Mid CH20525	High CH20643
				Frequency 824.7 MHz	Frequency 836.5 MHz	Frequency 848.3 MHz
5/ 1.4	QPSK	1	0	23.31	23.22	23.06
		1	2	23.43	23.41	23.42
		1	5	23.32	23.18	23.12
		3	0	23.15	22.98	22.96
		3	1	23.44	23.21	23.32
		3	3	23.26	23.14	23.20
		6	0	22.24	22.18	22.17
	16QAM	1	0	22.25	22.14	22.11
		1	2	22.49	22.34	22.31
		1	5	22.25	22.47	22.35
		3	0	22.33	22.27	22.38
		3	1	22.49	22.31	22.35
		3	3	22.40	22.22	22.14
		6	0	21.35	21.30	21.18
	64QAM	1	0	21.48	21.41	21.41
		1	2	21.33	21.28	21.45
		1	5	21.40	21.20	21.30
		3	0	21.21	21.17	21.04
		3	1	21.58	21.22	21.23
		3	3	21.38	21.12	21.45
		6	0	20.48	20.15	20.42
Band/BW	Modulation	RB Size	RB offset	Low CH20415	Mid CH20525	High CH20635
				Frequency 825.5 MHz	Frequency 836.5 MHz	Frequency 847.5 MHz
5/ 3	QPSK	1	0	23.24	23.24	23.13
		1	7	23.32	23.47	23.30
		1	14	23.35	23.20	23.04
		8	0	22.19	22.03	22.00
		8	3	22.39	22.23	22.17
		8	7	22.36	22.14	22.05
		15	0	22.40	22.14	22.15
	16QAM	1	0	22.32	22.12	22.09
		1	7	22.43	22.28	22.27
		1	14	22.36	22.38	22.45
		8	0	21.27	21.32	21.28
		8	3	21.35	21.40	21.40
		8	7	21.25	21.25	21.21
		15	0	21.46	21.23	21.29
	64QAM	1	0	21.46	21.33	21.41
		1	7	21.43	21.37	21.46

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		1	14	21.28	21.29	21.20
		8	0	20.02	20.34	20.21
		8	3	20.42	20.44	20.16
		8	7	20.36	20.27	20.47
		15	0	20.53	20.16	20.49
LTE Band 5						
Band/BW	Modulation	RB Size	RB offset	Low CH20425	Mid CH20525	High CH20625
				Frequency 826.5 MHz	Frequency 836.5 MHz	Frequency 846.5 MHz
5/ 5	QPSK	1	0	23.24	23.15	23.09
		1	12	23.41	23.30	23.35
		1	24	23.20	23.09	23.15
		12	0	22.29	22.08	21.97
		12	6	22.48	22.14	22.34
		12	13	22.41	22.04	22.23
		25	0	22.38	22.07	22.23
	16QAM	1	0	22.41	22.11	22.25
		1	12	22.47	22.45	22.29
		1	24	22.31	22.33	22.44
		12	0	21.41	21.27	21.30
		12	6	21.52	21.42	21.31
		12	13	21.30	21.19	21.04
		25	0	21.45	21.32	21.19
	64QAM	1	0	21.44	21.30	21.31
		1	12	21.49	21.49	21.63
		1	24	21.25	21.38	21.37
		12	0	20.12	20.21	20.16
		12	6	20.50	20.35	20.30
		12	13	20.28	20.26	20.33
		25	0	20.51	20.21	20.39
Band/BW	Modulation	RB Size	RB offset	Low CH20450	Mid CH20525	High CH20600
				Frequency 829 MHz	Frequency 836.5 MHz	Frequency 844 MHz
5/ 10	QPSK	1	0	23.38	23.35	23.23
		1	24	23.48	23.46	23.43
		1	49	23.35	23.27	23.22
		25	0	22.34	22.16	22.17
		25	12	22.48	22.28	22.33
		25	25	22.43	22.22	22.26
		50	0	22.45	22.19	22.31
	16QAM	1	0	22.41	22.31	22.29
		1	24	22.48	22.49	22.40
		1	49	22.45	22.47	22.56
		25	0	21.41	21.37	21.41
		25	12	21.53	21.50	21.45
		25	25	21.44	21.32	21.24
		50	0	21.50	21.33	21.37

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	64QAM	1	0	21.53	21.43	21.43
		1	24	21.53	21.48	21.64
		1	49	21.42	21.38	21.38
		25	0	20.20	20.33	20.24
		25	12	20.61	20.43	20.36
		25	25	20.44	20.28	20.51
		50	0	20.58	20.35	20.51
LTE BAND 26						
Band/BW	Modulation	RB Size	RB offset	Low CH26797	Mid CH26915	High CH27033
				Frequency 824.7 MHz	Frequency 836.5 MHz	Frequency 848.3 MHz
26/ 1.4	QPSK	1	0	23.51	23.32	23.31
		1	2	23.62	23.46	23.44
		1	5	23.50	23.19	23.50
		3	0	23.28	23.31	23.27
		3	1	23.59	23.53	23.25
		3	3	23.37	23.38	23.22
		6	0	22.49	22.19	22.33
	16QAM	1	0	22.43	22.25	22.50
		1	2	22.83	22.64	22.48
		1	5	22.42	22.30	22.46
		3	0	22.62	22.22	22.27
		3	1	22.43	22.36	22.31
		3	3	22.44	22.38	22.47
		6	0	21.49	21.44	21.47
	64QAM	1	0	21.49	21.46	21.55
		1	2	21.48	21.50	21.62
		1	5	21.51	21.27	21.35
		3	0	21.39	21.53	21.24
		3	1	21.29	21.48	21.44
		3	3	21.44	21.46	21.34
		6	0	20.52	20.23	20.42
Band/BW	Modulation	RB Size	RB offset	Low CH26805	Mid CH26915	High CH27025
				Frequency 825.5 MHz	Frequency 836.5 MHz	Frequency 847.5 MHz
26/ 3	QPSK	1	0	23.59	23.24	23.49
		1	7	23.63	23.51	23.57
		1	14	23.53	23.12	23.48
		8	0	22.32	22.25	22.25
		8	3	22.58	22.43	22.40
		8	7	22.40	22.39	22.36
		15	0	22.49	22.23	22.37
	16QAM	1	0	22.49	22.18	22.46
		1	7	22.69	22.62	22.57
		1	14	22.35	22.28	22.40
		8	0	21.45	21.25	21.43
		8	3	21.48	21.43	21.40

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		8	7	21.47	21.31	21.38
		15	0	21.64	21.34	21.63
	64QAM	1	0	21.49	21.47	21.56
		1	7	21.45	21.40	21.75
		1	14	21.43	21.27	21.37
		8	0	20.42	20.31	20.37
		8	3	20.34	20.41	20.49
		8	7	20.50	20.34	20.26
		15	0	20.41	20.29	20.25
LTE BAND 26						
Band/BW	Modulation	RB Size	RB offset	Low CH26815	Mid CH26915	High CH27015
				Frequency 826.5 MHz	Frequency 836.5 MHz	Frequency 846.5 MHz
26/ 5	QPSK	1	0	23.59	23.24	23.46
		1	12	23.69	23.53	23.56
		1	24	23.51	23.20	23.34
		12	0	22.43	22.39	22.10
		12	6	22.38	22.41	22.37
		12	13	22.25	22.28	22.35
		25	0	22.38	22.39	22.39
	16QAM	1	0	22.42	22.28	22.57
		1	12	22.86	22.52	22.47
		1	24	22.28	22.30	22.38
		12	0	21.60	21.23	21.27
		12	6	21.40	21.46	21.39
		12	13	21.48	21.47	21.41
		25	0	21.51	21.38	21.61
	64QAM	1	0	21.37	21.43	21.54
		1	12	21.61	21.35	21.70
		1	24	21.40	21.22	21.40
		12	0	20.33	20.46	20.31
		12	6	20.49	20.41	20.60
		12	13	20.50	20.37	20.28
		25	0	20.42	20.20	20.32
Band/BW	Modulation	RB Size	RB offset	Low CH26840	Mid CH26915	High CH26990
				Frequency 829 MHz	Frequency 836.5 MHz	Frequency 844 MHz
26/10	QPSK	1	0	23.39	23.38	23.41
		1	24	23.67	23.35	23.44
		1	49	23.61	23.11	23.39
		25	0	22.39	22.38	22.22
		25	12	22.47	22.56	22.39
		25	25	22.32	22.36	22.36
		50	0	22.51	22.38	22.28
	16QAM	1	0	22.63	22.30	22.53
		1	24	22.73	22.58	22.56
		1	49	22.50	22.33	22.52

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		25	0	21.48	21.32	21.34
		25	12	21.34	21.27	21.34
		25	25	21.50	21.40	21.49
		50	0	21.49	21.29	21.56
	64QAM	1	0	21.31	21.50	21.48
		1	24	21.46	21.47	21.61
		1	49	21.37	21.36	21.25
		25	0	20.43	20.50	20.24
		25	12	20.45	20.43	20.45
		25	25	20.36	20.34	20.34
		50	0	20.34	20.32	20.32

LTE BAND 26						
Band/BW	Modulation	RB Size	RB offset	Low CH26865	Mid CH26915	High CH26965
				Frequency 831.5 MHz	Frequency 836.5 MHz	Frequency 841.5 MHz
26/ 15	QPSK	1	0	23.59	23.38	23.52
		1	37	23.71	23.56	23.62
		1	74	23.60	23.24	23.53
		36	0	22.42	22.41	22.29
		36	19	22.59	22.55	22.39
		36	39	22.43	22.43	22.37
		75	0	22.52	22.39	22.47
	16QAM	1	0	22.62	22.34	22.67
		1	37	22.88	22.69	22.57
		1	74	22.49	22.36	22.59
		36	0	21.63	21.41	21.45
		36	19	21.47	21.47	21.46
		36	39	21.61	21.51	21.49
		75	0	21.65	21.50	21.62
	64QAM	1	0	21.52	21.51	21.59
		1	37	21.62	21.54	21.78
		1	74	21.53	21.39	21.45
		36	0	20.49	20.52	20.44
		36	19	20.50	20.56	20.61
		36	39	20.51	20.51	20.40
		75	0	20.52	20.37	20.42

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n5 (SCS 15kHz)								
BW [MHz]	DFT-s-OFDM	RB Size	RB Offset	Low	Mid	High	MPR (dB)	Max. Tune-up (dBm)
		Channel		166800	167300	167800		
		Frequency (MHz)		834	836.5	839		
20	Pi/2 BPSK	1	1	22.91	22.90	22.81	0	25.7
		1	53	22.95	22.79	22.70	0	25.7
		1	104	22.75	22.71	22.57	0	25.7
		50	0	22.30	22.47	22.26	0.5	25.2
		50	28	22.75	22.73	22.61	0	25.7
		50	56	22.44	22.38	22.22	0.5	25.2
		100	0	22.49	22.47	22.31	0.5	25.2
	QPSK	1	1	22.84	23.03	22.96	0	25.7
		1	53	22.81	23.00	22.74	0	25.7
		1	104	22.80	22.88	22.80	0	25.7
		50	0	21.73	21.84	21.67	1	24.7
		50	28	22.88	22.98	22.91	0	25.7
		50	56	21.85	22.02	21.76	1	24.7
		100	0	22.13	22.27	21.98	1	24.7
	16QAM	1	1	21.63	21.75	21.75	1	24.7
	64QAM	1	1	20.26	20.49	20.34	2.5	23.2
	256QAM	1	1	18.82	19.05	19.00	4.5	21.2
BW [MHz]	DFT-s-OFDM	Channel		166300	167300	168300	MPR (dB)	Max. Tune-up
		Frequency (MHz)		831.5	836.5	841.5		
15	QPSK	1	1	22.84	22.91	22.93	0	25.7
BW [MHz]	DFT-s-OFDM	Channel		165800	167300	168800	MPR (dB)	Max. Tune-up
		Frequency (MHz)		829	836.5	844		
10	QPSK	1	1	22.75	22.92	22.97	0	25.7
BW [MHz]	DFT-s-OFDM	Channel		165300	167300	169300	MPR (dB)	Max. Tune-up
		Frequency (MHz)		826.5	836.5	846.5		
5	QPSK	1	1	22.71	22.85	22.89	0	25.7

Test Report No.: RF260623B001

n26 (SCS 15kHz)								
BW [MHz]	DFT-s-OFDM	RB Size	RB Offset	Low	Mid	High	MPR (dB)	Max. Tune-up (dBm)
		Channel		166800	167300	167800		
		Frequency (MHz)		834	836.5	839		
20	Pi/2 BPSK	1	1	22.94	23.06	22.97	0	25.7
		1	53	23.01	22.92	22.94	0	25.7
		1	104	22.70	22.75	22.93	0	25.7
		50	0	22.30	22.36	22.30	0.5	25.2
		50	28	22.77	22.69	22.85	0	25.7
		50	56	22.26	22.28	22.41	0.5	25.2
		100	0	22.26	22.30	22.30	0.5	25.2
	QPSK	1	1	23.03	23.09	23.21	0	25.7
		1	53	22.98	23.05	23.05	0	25.7
		1	104	22.87	22.74	23.13	0	25.7
		50	0	21.76	21.77	21.89	1	24.7
		50	28	22.94	22.79	22.96	0	25.7
		50	56	21.82	21.74	21.84	1	24.7
		100	0	22.03	21.95	22.15	1	24.7
	16QAM	1	1	21.82	21.64	21.90	1	24.7
	64QAM	1	1	20.18	20.30	20.30	2.5	23.2
	256QAM	1	1	18.88	18.77	18.94	4.5	21.2
BW [MHz]	DFT-s-OFDM	Channel		166300	167300	168300	MPR (dB)	Max. Tune-up
		Frequency (MHz)		831.5	836.5	841.5		
15	QPSK	1	1	22.88	22.95	23.11	0	25.7
BW [MHz]	DFT-s-OFDM	Channel		165800	167300	168800	MPR (dB)	Max. Tune-up
		Frequency (MHz)		829	836.5	844		
10	QPSK	1	1	22.87	23.10	23.08	0	25.7
BW [MHz]	DFT-s-OFDM	Channel		165300	167300	169300	MPR (dB)	Max. Tune-up
		Frequency (MHz)		826.5	836.5	846.5		
5	QPSK	1	1	22.99	22.97	23.11	0	25.7

Test Report No.: RF260623B001

ERP POWER (dBm)

LTE BAND 5

CHANNEL BANDWIDTH: 1.4MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20407	824.7	23.44	1.87	23.16	207.01	7
20525	836.5	23.41	1.87	23.13	205.59	7
20643	848.3	23.42	1.87	23.14	206.06	7

CHANNEL BANDWIDTH: 1.4MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20407	824.7	22.49	1.87	22.21	166.34	7
20525	836.5	22.47	1.87	22.19	165.58	7
20643	848.3	22.38	1.87	22.10	162.18	7

CHANNEL BANDWIDTH: 1.4MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20407	824.7	21.58	1.87	21.30	134.90	7
20525	836.5	21.41	1.87	21.13	129.72	7
20643	848.3	21.45	1.87	21.17	130.92	7

CHANNEL BANDWIDTH: 3MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20415	825.5	23.35	1.87	23.07	202.77	7
20525	836.5	23.47	1.87	23.19	208.45	7
20635	847.5	23.30	1.87	23.02	200.45	7

CHANNEL BANDWIDTH: 3MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20415	825.5	22.43	1.87	22.15	164.06	7
20525	836.5	22.38	1.87	22.10	162.18	7
20635	847.5	22.45	1.87	22.17	164.82	7

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CHANNEL BANDWIDTH: 3MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20415	825.5	21.46	1.87	21.18	131.22	7
20525	836.5	21.37	1.87	21.09	128.53	7
20635	847.5	21.46	1.87	21.18	131.22	7

CHANNEL BANDWIDTH: 5MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20425	826.5	23.41	1.87	23.13	205.59	7
20525	836.5	23.30	1.87	23.02	200.45	7
20625	846.5	23.35	1.87	23.07	202.77	7

CHANNEL BANDWIDTH: 5MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20425	826.5	22.47	1.87	22.19	165.58	7
20525	836.5	22.45	1.87	22.17	164.82	7
20625	846.5	22.44	1.87	22.16	164.44	7

CHANNEL BANDWIDTH: 5MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20425	826.5	21.49	1.87	21.21	132.13	7
20525	836.5	21.49	1.87	21.21	132.13	7
20625	846.5	21.63	1.87	21.35	136.46	7

CHANNEL BANDWIDTH: 10MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829	23.48	1.87	23.20	208.93	7
20525	836.5	23.46	1.87	23.18	207.97	7
20600	844	23.43	1.87	23.15	206.54	7

CHANNEL BANDWIDTH: 10MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829	22.48	1.87	22.20	165.96	7
20525	836.5	22.49	1.87	22.21	166.34	7
20600	844	22.56	1.87	22.28	169.04	7

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CHANNEL BANDWIDTH: 10MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
20450	829	21.53	1.87	21.25	133.35	7
20525	836.5	21.48	1.87	21.20	131.83	7
20600	844	21.64	1.87	21.36	136.77	7

LTE BAND 26

CHANNEL BANDWIDTH: 1.4MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26797	824.7	23.62	2.06	23.53	225.42	7
26915	836.5	23.53	2.06	23.44	220.80	7
27033	848.3	23.50	2.06	23.41	219.28	7

CHANNEL BANDWIDTH: 1.4MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26797	824.7	22.83	2.06	22.74	187.93	7
26915	836.5	22.64	2.06	22.55	179.89	7
27033	848.3	22.50	2.06	22.41	174.18	7

CHANNEL BANDWIDTH: 1.4MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26797	824.7	21.51	2.06	21.42	138.68	7
26915	836.5	21.53	2.06	21.44	139.32	7
27033	848.3	21.62	2.06	21.53	142.23	7

CHANNEL BANDWIDTH: 3MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26805	825.5	23.63	2.06	23.54	225.94	7
26915	836.5	23.51	2.06	23.42	219.79	7
27025	847.5	23.57	2.06	23.48	222.84	7

CHANNEL BANDWIDTH: 3MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _c (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26805	825.5	22.69	2.06	22.60	181.97	7
26915	836.5	22.62	2.06	22.53	179.06	7
27025	847.5	22.57	2.06	22.48	177.01	7

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CHANNEL BANDWIDTH: 3MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26805	825.5	21.49	2.06	21.40	138.04	7
26915	836.5	21.47	2.06	21.38	137.40	7
27025	847.5	21.75	2.06	21.66	146.55	7

CHANNEL BANDWIDTH: 5MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26815	826.5	23.69	2.06	23.60	229.09	7
26915	836.5	23.53	2.06	23.44	220.80	7
27015	846.5	23.56	2.06	23.47	222.33	7

CHANNEL BANDWIDTH: 5MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26815	826.5	22.86	2.06	22.77	189.23	7
26915	836.5	22.52	2.06	22.43	174.98	7
27015	846.5	22.57	2.06	22.48	177.01	7

CHANNEL BANDWIDTH: 5MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26815	826.5	21.61	2.06	21.52	141.91	7
26915	836.5	21.43	2.06	21.34	136.14	7
27015	846.5	21.70	2.06	21.61	144.88	7

CHANNEL BANDWIDTH: 10MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26840	829	23.67	2.06	23.58	228.03	7
26915	836.5	23.38	2.06	23.29	213.30	7
26990	844	23.44	2.06	23.35	216.27	7

CHANNEL BANDWIDTH: 10MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26840	829	22.73	2.06	22.64	183.65	7
26915	836.5	22.58	2.06	22.49	177.42	7
26990	844	22.56	2.06	22.47	176.60	7

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CHANNEL BANDWIDTH: 10MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26840	829	21.46	2.06	21.37	137.09	7
26915	836.5	21.50	2.06	21.41	138.36	7
26990	844	21.61	2.06	21.52	141.91	7

CHANNEL BANDWIDTH: 15MHz QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26865	831.5	23.71	2.06	23.62	230.14	7
26915	836.5	23.56	2.06	23.47	222.33	7
26965	841.5	23.62	2.06	23.53	225.42	7

CHANNEL BANDWIDTH: 15MHz 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26865	831.5	22.88	2.06	22.79	190.11	7
26915	836.5	22.69	2.06	22.60	181.97	7
26965	841.5	22.67	2.06	22.58	181.13	7

CHANNEL BANDWIDTH: 15MHz 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	G _T -L _C (dB)	ERP (dBm)	ERP (mW)	Limit (W)
26865	831.5	21.62	2.06	21.53	142.23	7
26915	836.5	21.54	2.06	21.45	139.64	7
26965	841.5	21.78	2.06	21.69	147.57	7

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

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n5 (SCS 15kHz)							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	FCC Limit (W)
20M-Pi/2 BPSK	167300	836.5	22.90	2.11	22.86	193.20	7
20M-QPSK	167300	836.5	23.03	2.11	22.99	199.07	7
20M- 16QAM	167300	836.5	21.75	2.11	21.71	148.25	7
20M- 64QAM	167300	836.5	20.49	2.11	20.45	110.92	7
20M- 256QAM	167300	836.5	19.05	2.11	19.01	79.62	7
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	FCC Limit (W)
15M-QPSK	166300	831.5	22.84	2.11	22.80	190.55	7
	167300	836.5	22.91	2.11	22.87	193.64	7
	168300	841.5	22.93	2.11	22.89	194.54	7
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	FCC Limit (W)
10M-QPSK	165800	829	22.75	2.11	22.71	186.64	7
	167300	836.5	22.92	2.11	22.88	194.09	7
	168800	844	22.97	2.11	22.93	196.34	7
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	FCC Limit (W)
5M-QPSK	165300	826.5	22.71	2.11	22.67	184.93	7
	167300	836.5	22.85	2.11	22.81	190.99	7
	169300	846.5	22.89	2.11	22.85	192.75	7

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n26 (SCS 15kHz)							
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	FCC Limit (W)
20M-Pi/2 BPSK	166800	834	23.01	2.06	22.92	195.88	7
	167300	836.5	23.06	2.06	22.97	198.15	7
	167800	839	22.97	2.06	22.88	194.09	7
20M-QPSK	166800	834	23.03	2.06	22.94	196.79	7
	167300	836.5	23.09	2.06	23.00	199.53	7
	167800	839	23.21	2.06	23.12	205.12	7
20M- 16QAM	166800	834	21.82	2.06	21.73	148.94	7
	167300	836.5	21.64	2.06	21.55	142.89	7
	167800	839	21.90	2.06	21.81	151.71	7
20M- 64QAM	166800	834	20.18	2.06	20.09	102.09	7
	167300	836.5	20.30	2.06	20.21	104.95	7
	167800	839	20.30	2.06	20.21	104.95	7
20M- 256QAM	166800	834	18.88	2.06	18.79	75.68	7
	167300	836.5	18.77	2.06	18.68	73.79	7
	167800	839	18.94	2.06	18.85	76.74	7
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	FCC Limit (W)
15M-QPSK	166300	831.5	22.88	2.06	22.79	190.11	7
	167300	836.5	22.95	2.06	22.86	193.20	7
	168300	841.5	23.11	2.06	23.02	200.45	7
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	FCC Limit (W)
10M-QPSK	165800	829	22.87	2.06	22.78	189.67	7
	167300	836.5	23.10	2.06	23.01	199.99	7
	168800	844	23.08	2.06	22.99	199.07	7
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	ERP (dBm)	ERP (mW)	FCC Limit (W)
5M-QPSK	165300	826.5	22.99	2.06	22.90	194.98	7
	167300	836.5	22.97	2.06	22.88	194.09	7
	169300	846.5	23.11	2.06	23.02	200.45	7

3.2 FREQUENCY STABILITY MEASUREMENT

3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

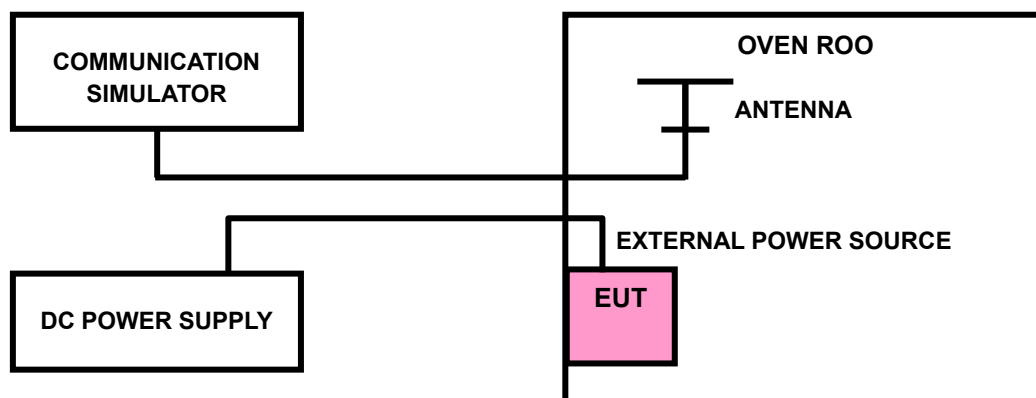
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

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.

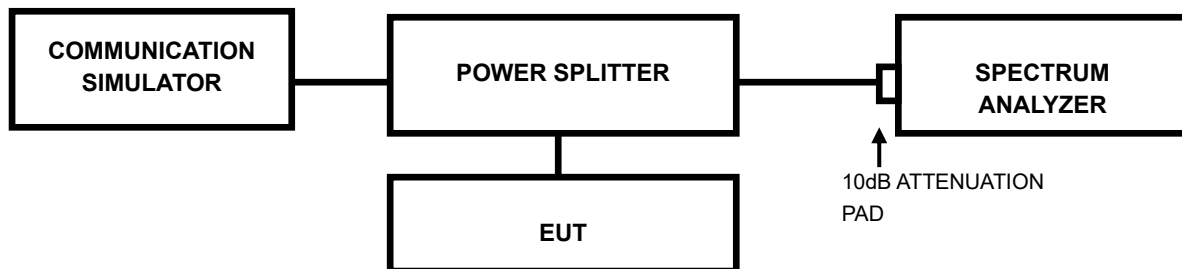
Note: VL = Low voltage(3.3V); VN/NV = Normal voltage(3.8V); VH = High voltage(4.35V); NT = Normal temperature (25°C)

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

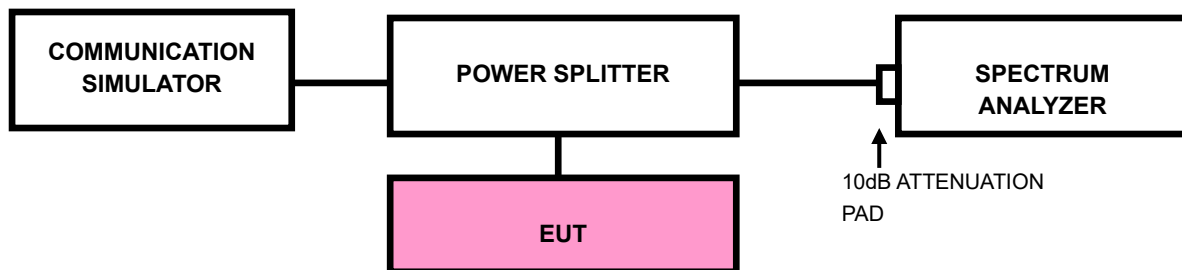
Please Refer to Appendix of this test report.

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

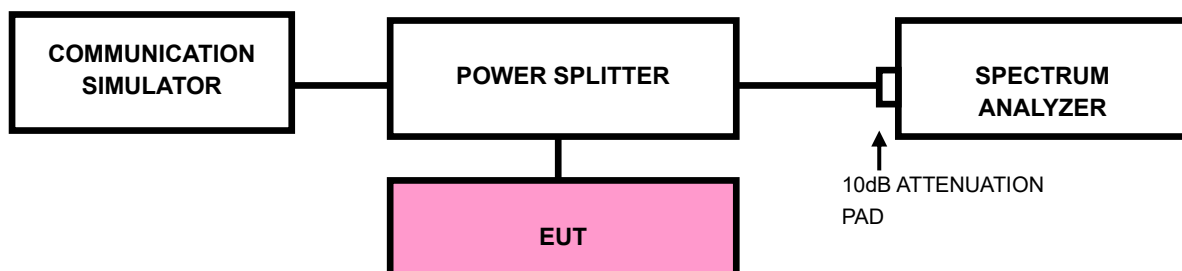
3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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

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

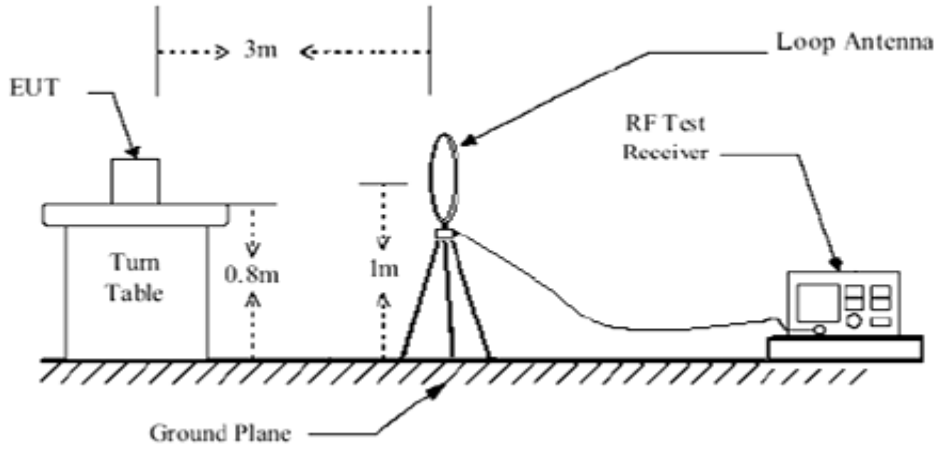
- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 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.

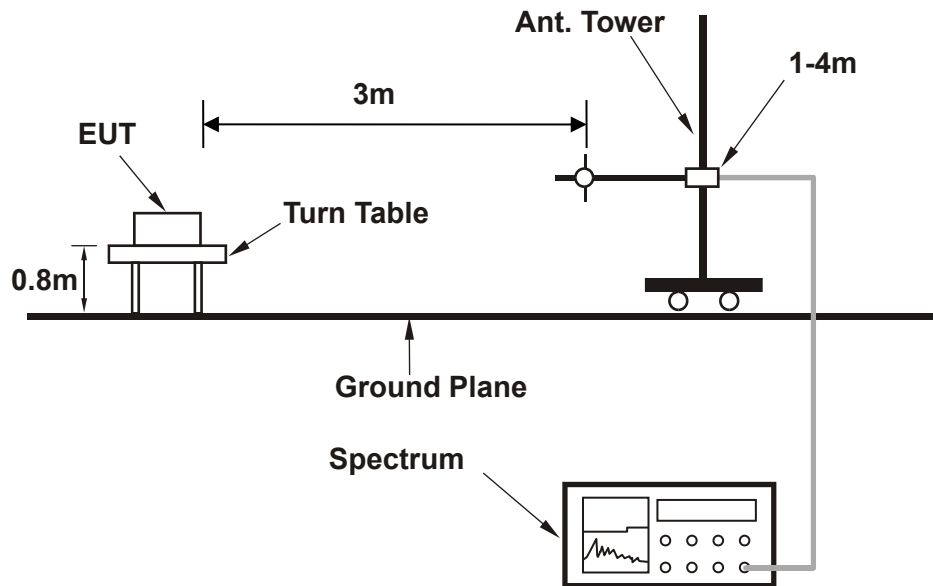
3.6.3 DEVIATION FROM TEST STANDARD

No deviation

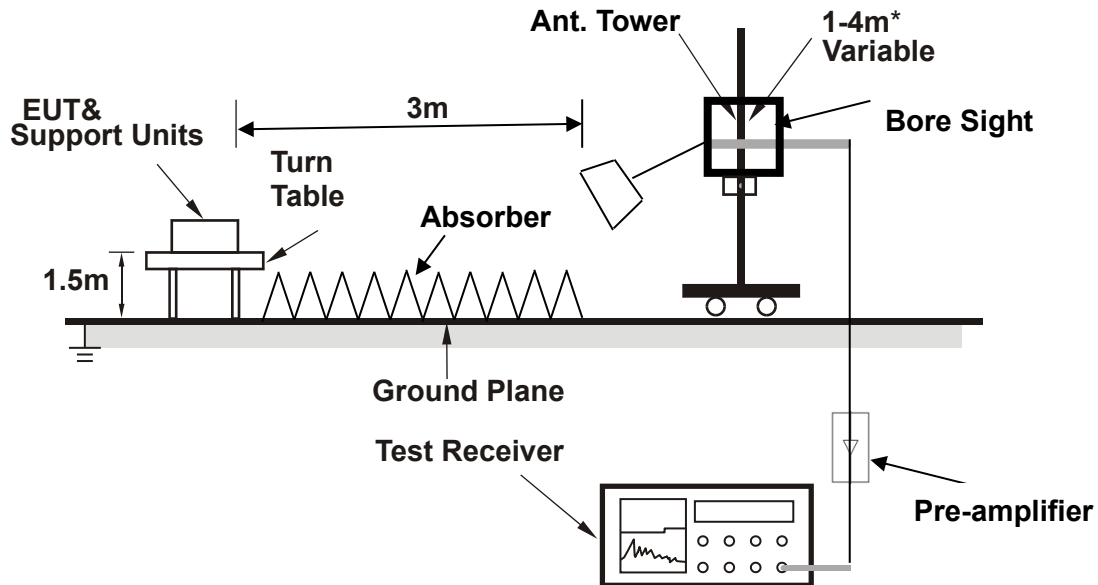
< Frequency Range below 30MHz >



< Frequency Range 30MHz~1GHz >



Test Report No.: RF260623B001
<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.: RF260623B001

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.

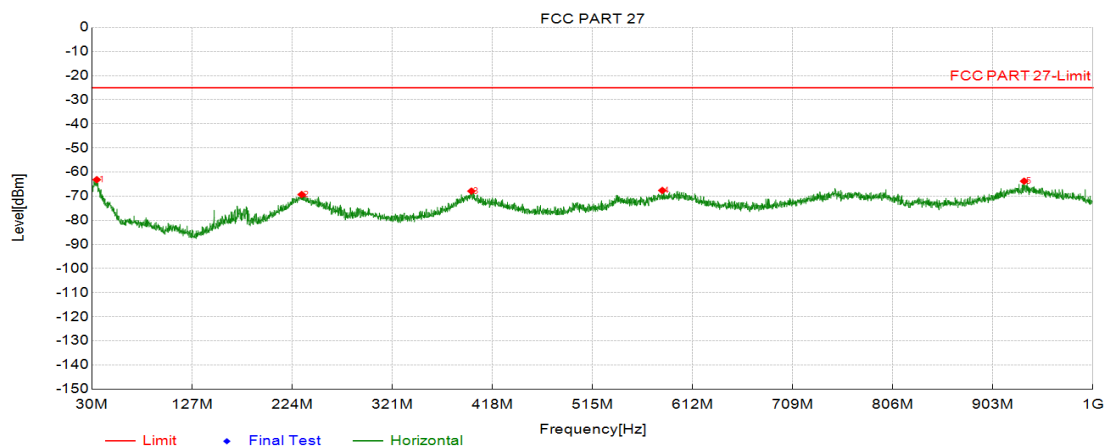
MINIPCIE form

BELOW 1GHz WORST-CASE DATA

LTE Band 5 (1.4MHz)			
MODE	TX channel 20407	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

Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	34.6569	-59.88	-63.15	-3.27	-25.00	38.15	Horizon	PK	PASS
2	233.1586	-64.39	-69.30	-4.91	-25.00	44.30	Horizon	PK	PASS
3	397.7035	-65.50	-67.88	-2.38	-25.00	42.88	Horizon	PK	PASS
4	582.6225	-66.15	-67.61	-1.46	-25.00	42.61	Horizon	PK	PASS
5	933.2506	-67.02	-63.77	3.25	-25.00	38.77	Horizon	PK	PASS



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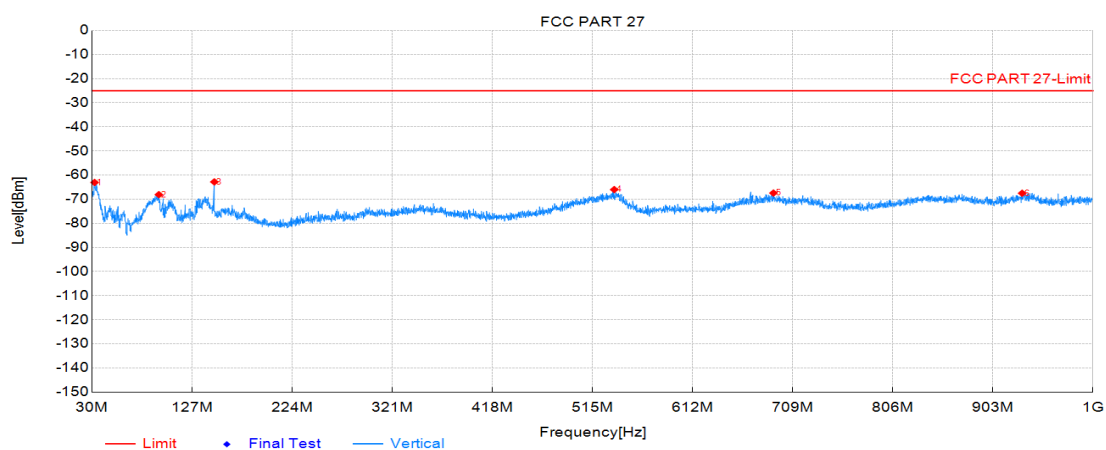
Test Report No.: RF260623B001

MODE	TX channel 20407	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

Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	32.5225	-52.79	-63.06	-10.27	-25.00	38.06	Vertical	PK	PASS
2	94.809	-54.98	-68.11	-13.13	-25.00	43.11	Vertical	PK	PASS
3	148.5577	-52.92	-62.82	-9.90	-25.00	37.82	Vertical	PK	PASS
4	536.0532	-66.03	-66.01	0.02	-25.00	41.01	Vertical	PK	PASS
5	690.3141	-67.34	-67.44	-0.10	-25.00	42.44	Vertical	PK	PASS
6	931.3103	-68.68	-67.53	1.15	-25.00	42.53	Vertical	PK	PASS



Test Report No.: RF260623B001

ABOVE 1GHz DATA

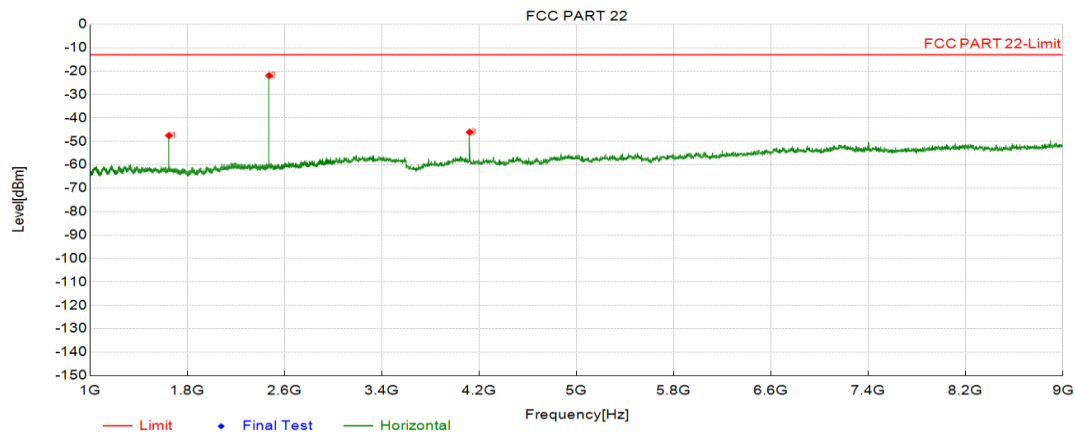
Note: For higher frequency, the emission is too low to be detected.

LTE Band 5			
CHANNEL BANDWIDTH	1.4MHz/QPSK	MODE	TX channel 20407
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

Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1648.5297	-37.98	-47.47	-9.49	-13.00	34.47	Horizon	PK	PASS
2	2472.6945	-15.73	-21.89	-6.16	-13.00	8.89	Horizon	PK	PASS
3	4121.0242	-46.10	-46.04	0.06	-13.00	33.04	Horizon	PK	PASS



Test Report No.: RF260623B001

CHANNEL BANDWIDTH	1.4MHz/QPSK	MODE	TX channel 20407						
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									
Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1648.5297	-41.79	-51.33	-9.54	-13.00	38.33	Vertical	PK	PASS
2	2472.6945	-13.12	-19.15	-6.03	-13.00	6.15	Vertical	PK	PASS
3	4121.0242	-48.19	-48.19	0.00	-13.00	35.19	Vertical	PK	PASS

FCC PART 22

Legend: — Limit • Final Test — Vertical

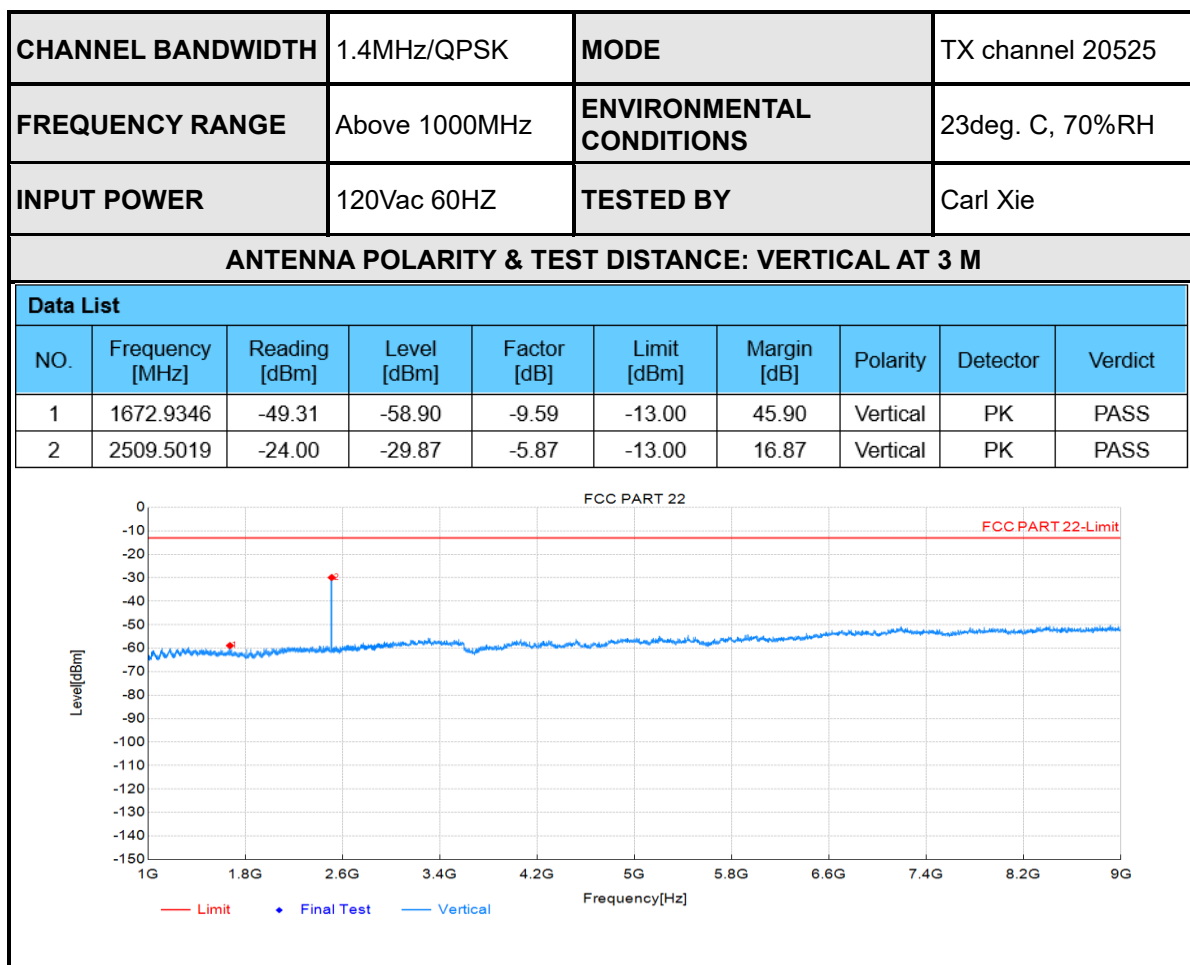
Test Report No.: RF260623B001

LTE Band 5									
CHANNEL BANDWIDTH	1.4MHz/QPSK		MODE		TX channel 20525				
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									
Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1673.3347	-46.86	-56.44	-9.58	-13.00	43.44	Horizon	PK	PASS
2	2509.902	-27.02	-33.00	-5.98	-13.00	20.00	Horizon	PK	PASS

FCC PART 22

Legend: — Limit • Final Test — Horizontal

Test Report No.: RF260623B001



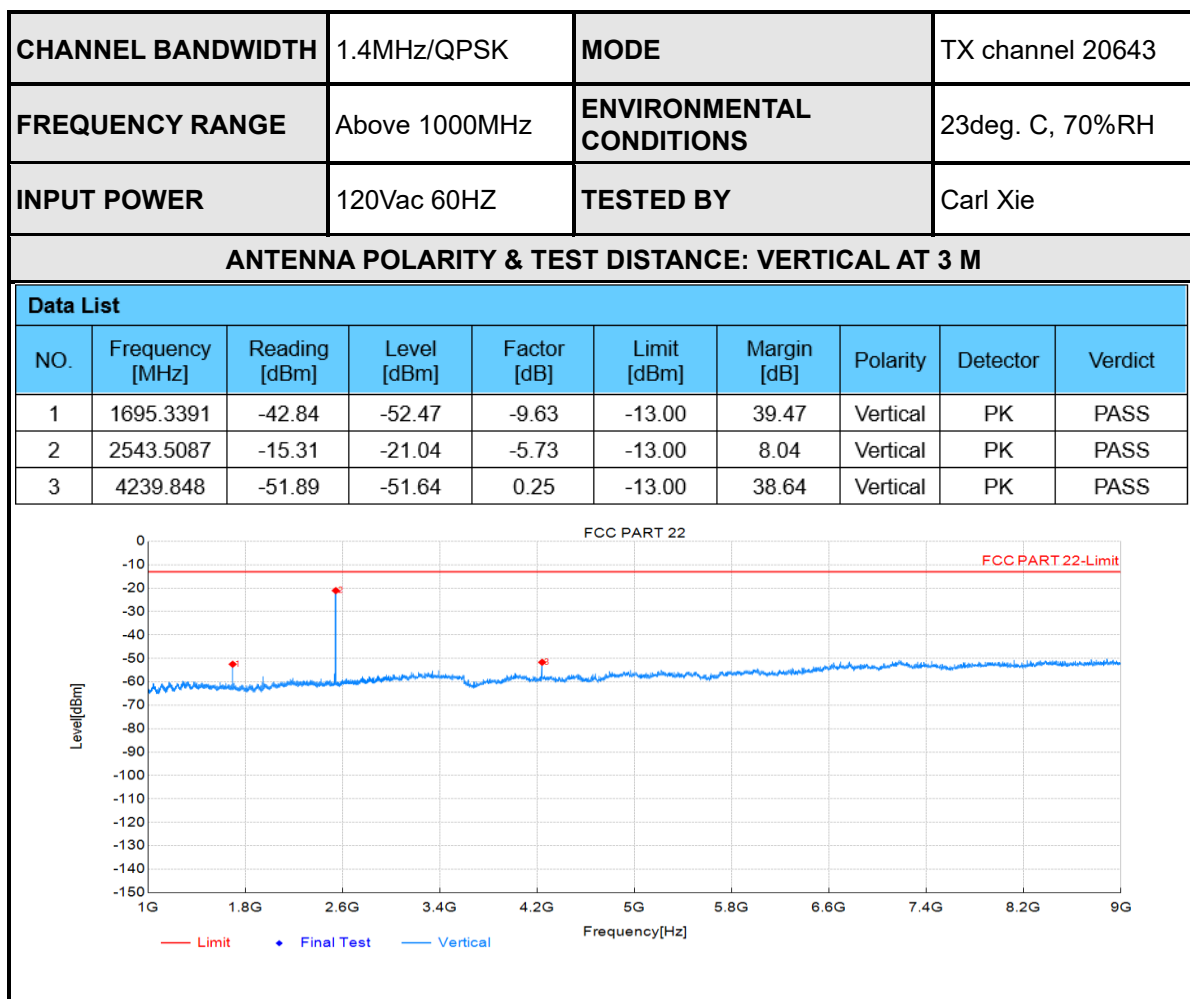
Test Report No.: RF260623B001

LTE Band 5									
CHANNEL BANDWIDTH	1.4MHz/QPSK		MODE		TX channel 20643				
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									
Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1695.7391	-34.10	-43.75	-9.65	-13.00	30.75	Horizon	PK	PASS
2	2543.5087	-15.96	-21.78	-5.82	-13.00	8.78	Horizon	PK	PASS
3	4238.6477	-43.11	-42.90	0.21	-13.00	29.90	Horizon	PK	PASS

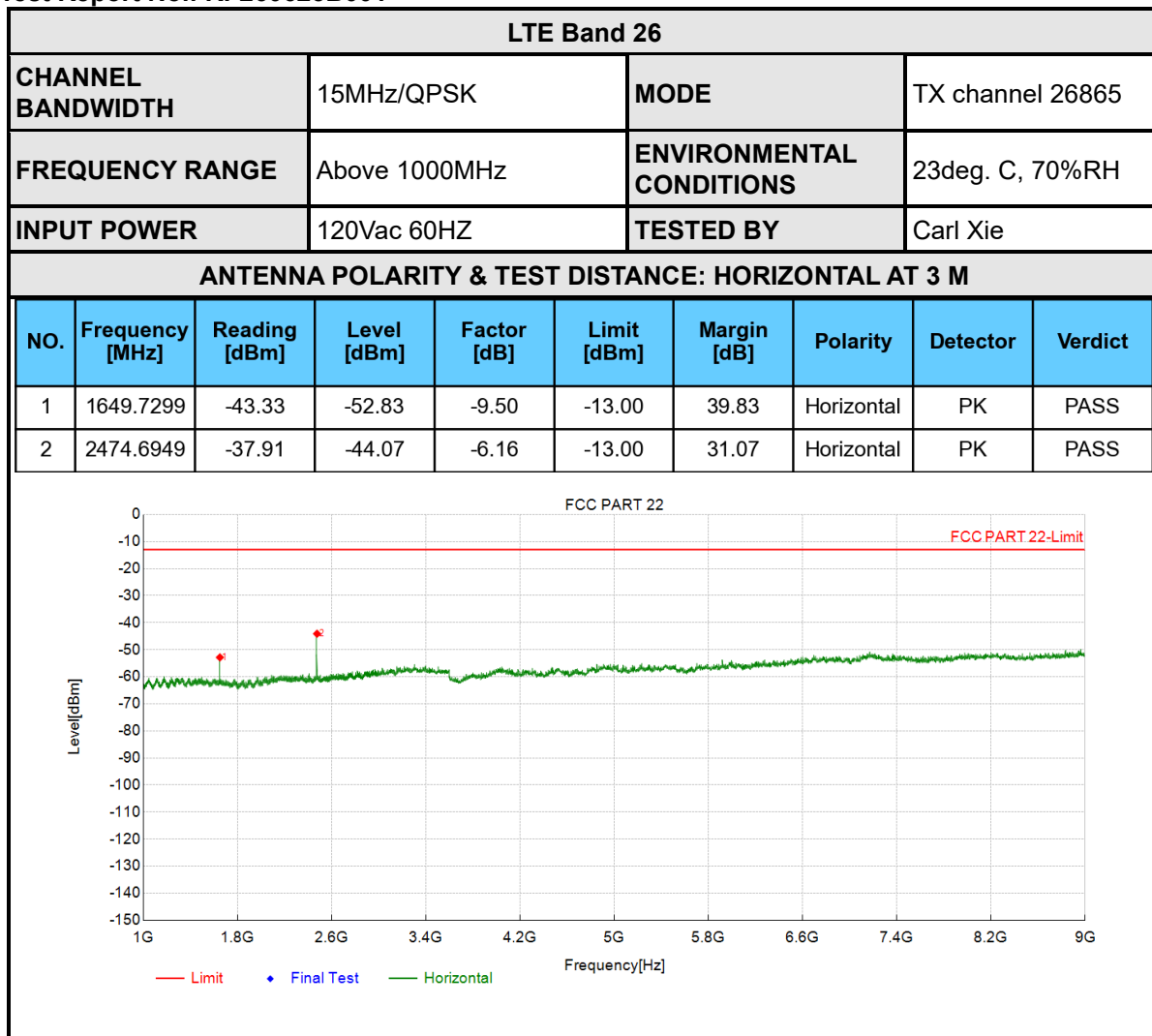
FCC PART 22

Legend: — Limit • Final Test — Horizontal

Test Report No.: RF260623B001



Test Report No.: RF260623B001



Test Report No.: RF260623B001

CHANNEL BANDWIDTH		15MHz/QPSK		MODE		TX channel 26865			
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									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1649.7299	-45.30	-54.84	-9.54	-13.00	41.84	Vertical	PK	PASS
2	2474.6949	-47.93	-53.96	-6.03	-13.00	40.96	Vertical	PK	PASS

FCC PART 22

Level[dBm]

Frequency[Hz]

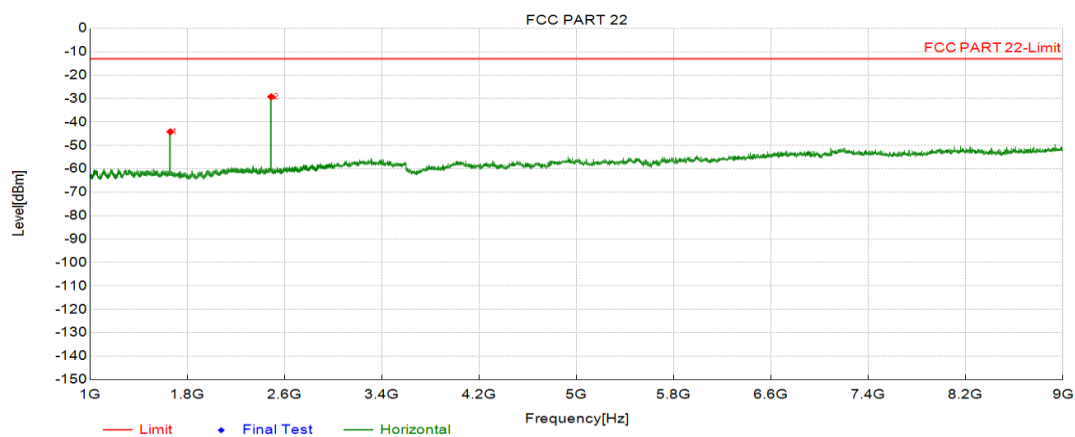
— Limit ♦ Final Test — Vertical

Test Report No.: RF260623B001

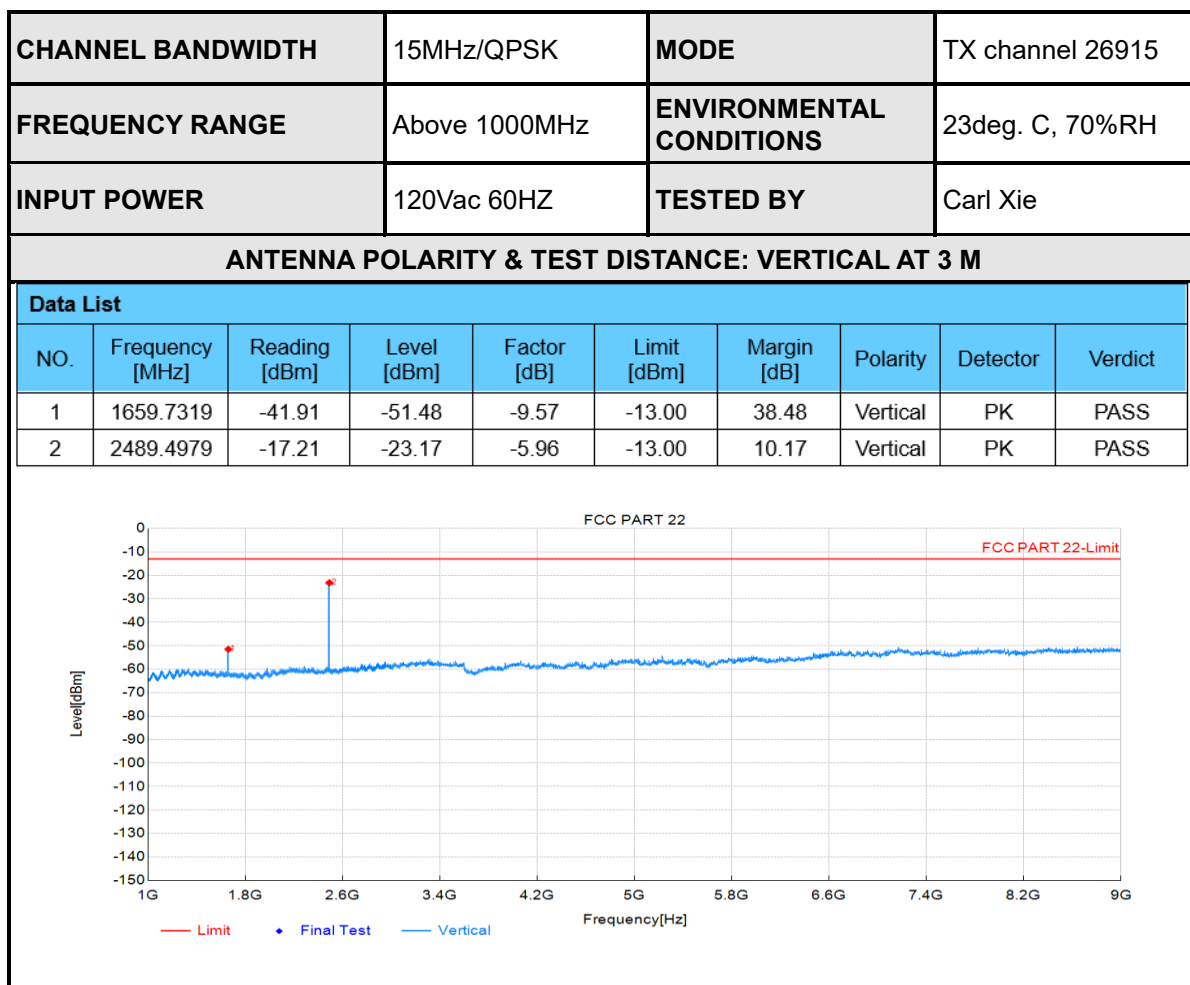
CHANNEL BANDWIDTH	15MHz/QPSK	MODE	TX channel 26915
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M
Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1659.7319	-34.63	-44.17	-9.54	-13.00	31.17	Horizon	PK	PASS
2	2489.4979	-23.14	-29.22	-6.08	-13.00	16.22	Horizon	PK	PASS



Test Report No.: RF260623B001

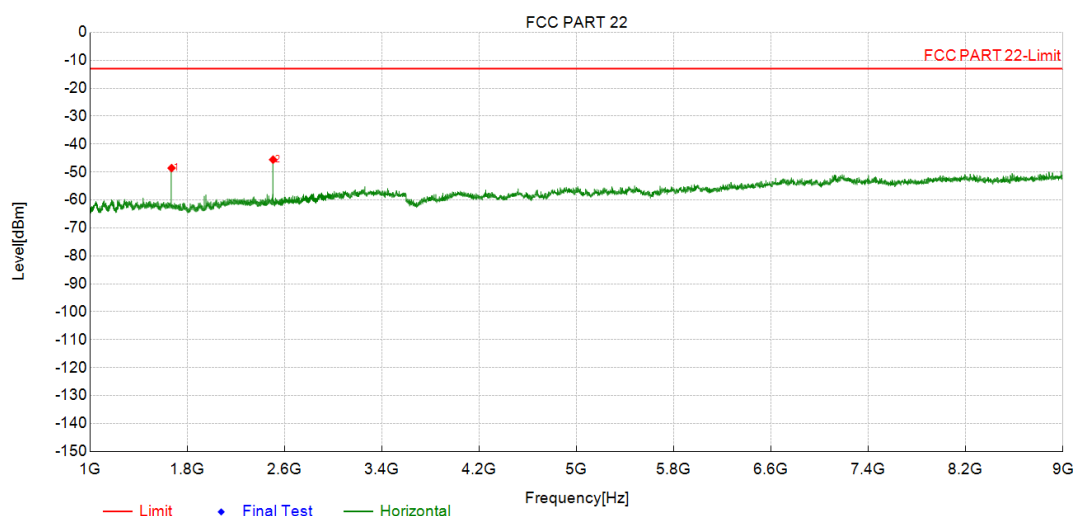


Test Report No.: RF260623B001

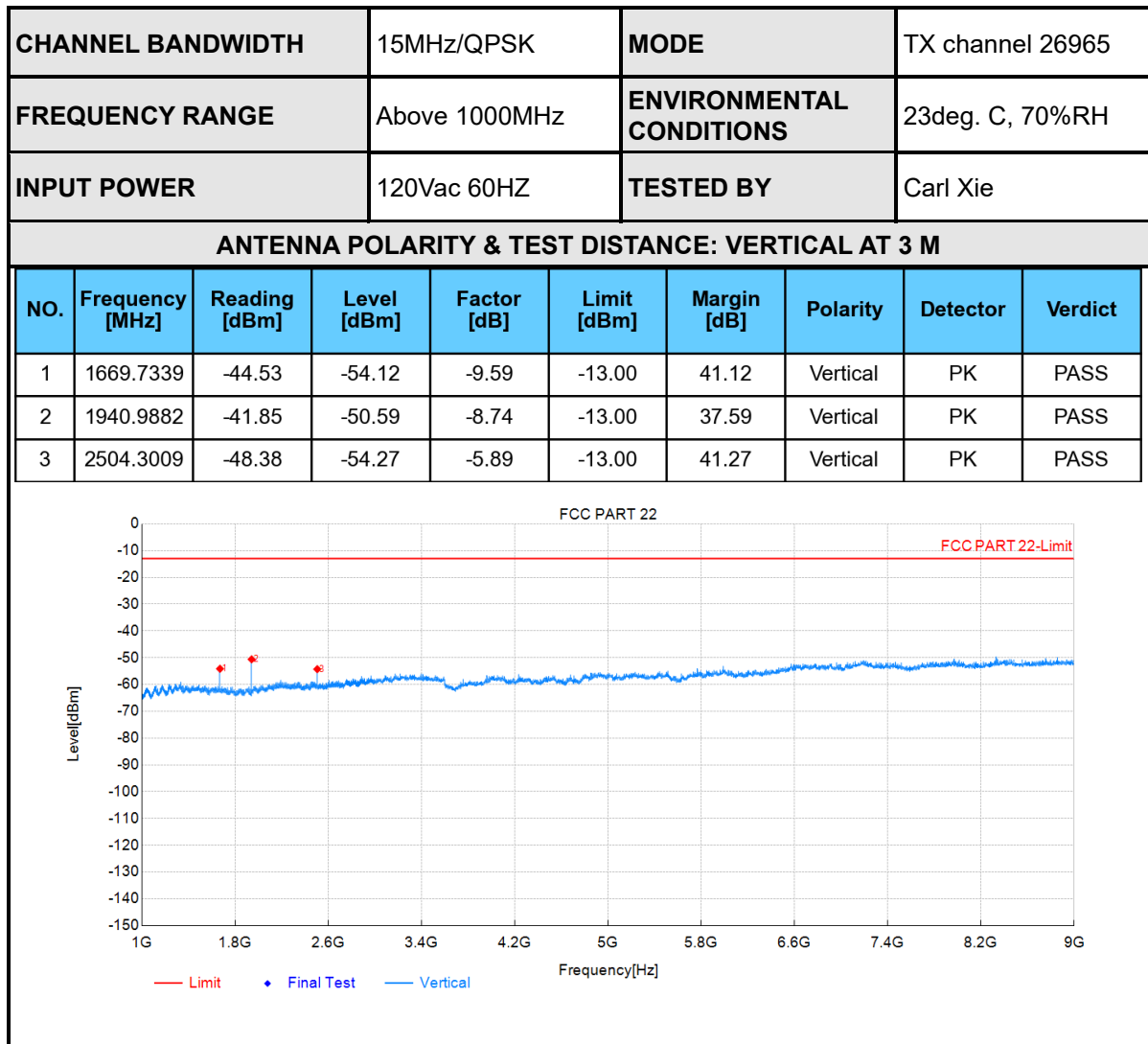
CHANNEL BANDWIDTH	15MHz/QPSK	MODE	TX channel 26965
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1669.7339	-39.00	-48.57	-9.57	-13.00	35.57	Horizontal	PK	PASS
2	2504.3009	-39.54	-45.55	-6.01	-13.00	32.55	Horizontal	PK	PASS



Test Report No.: RF260623B001



Test Report No.: RF260623B001
5G NR

N5									
CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 166800						
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									
Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1678.1356	-40.39	-49.99	-9.60	-13.00	36.99	Horizon	PK	PASS
2	2517.1034	-47.75	-53.70	-5.95	-13.00	40.70	Horizon	PK	PASS

FCC PART 22

Level[dBm]

Frequency[Hz]

Limit Final Test Horizontal

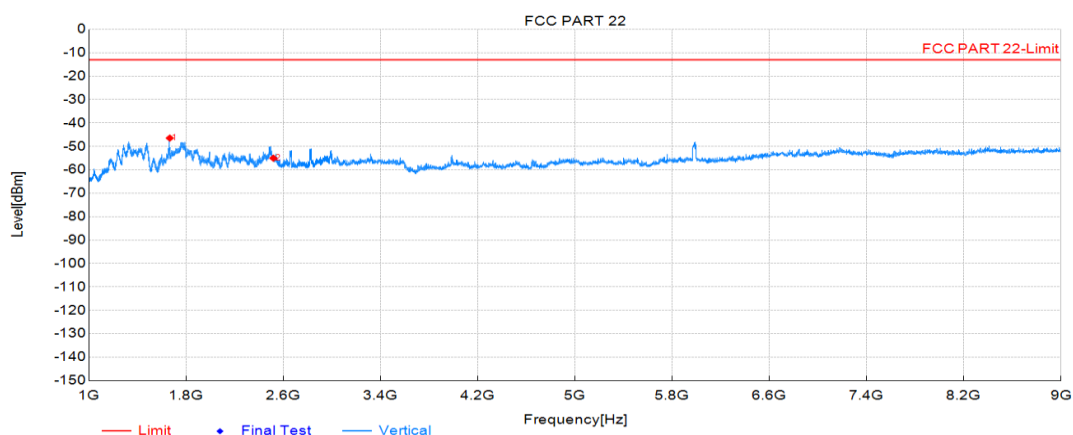
FCC PART 22-Limit

Test Report No.: RF260623B001

CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 166800
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			

Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1664.5329	-36.86	-46.44	-9.58	-13.00	33.44	Vertical	PK	PASS
2	2517.1034	-49.17	-55.01	-5.84	-13.00	42.01	Vertical	PK	PASS

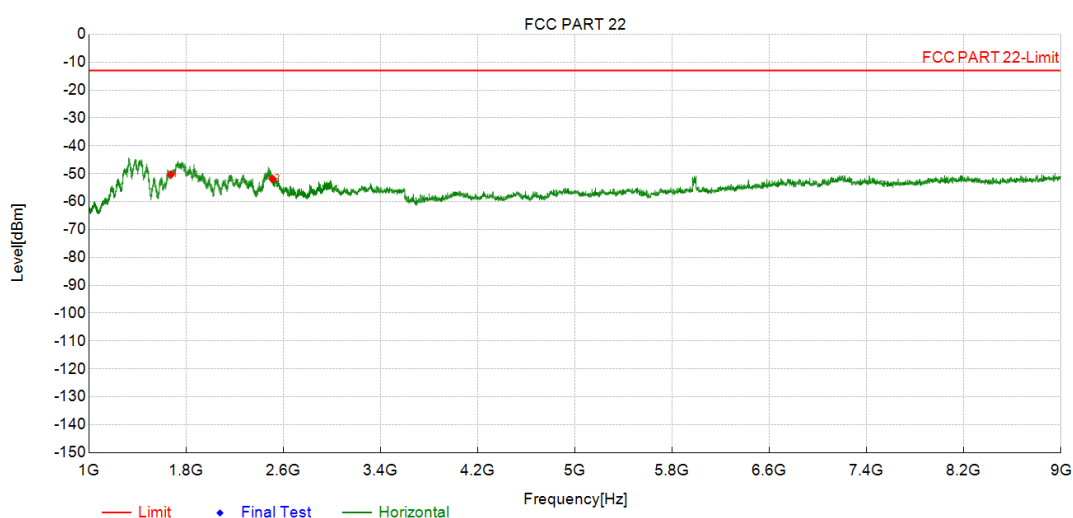


Test Report No.: RF260623B001

CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 167300
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

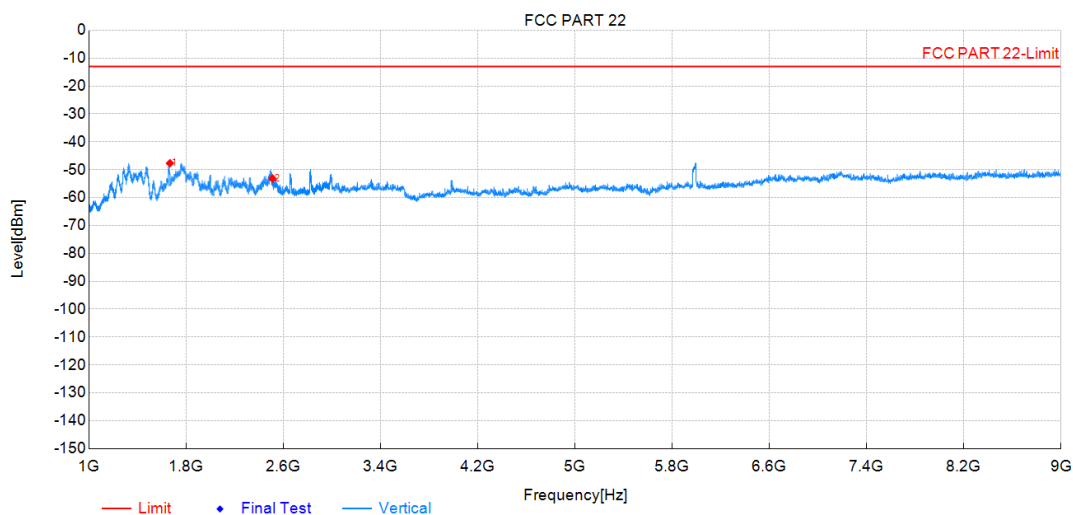
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1673.3347	-40.71	-50.29	-9.58	-13.00	37.29	Horizontal	PK	PASS
2	2509.5019	-45.85	-51.83	-5.98	-13.00	38.83	Horizontal	PK	PASS



Test Report No.: RF260623B001

CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 167300
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			

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1665.7331	-38.09	-47.67	-9.58	-13.00	34.67	Vertical	PK	PASS
2	2509.5019	-47.26	-53.13	-5.87	-13.00	40.13	Vertical	PK	PASS

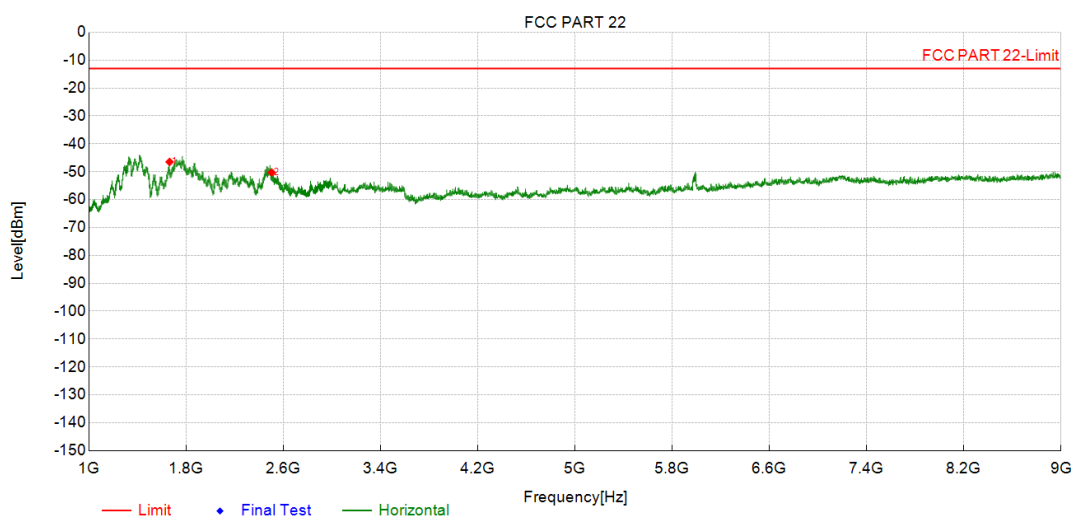


Test Report No.: RF260623B001

CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 167800
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

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1662.9326	-36.92	-46.47	-9.55	-13.00	33.47	Horizontal	PK	PASS
2	2502.3005	-44.21	-50.23	-6.02	-13.00	37.23	Horizontal	PK	PASS



Test Report No.: RF260623B001

CHANNEL BANDWIDTH		20MHz/QPSK	MODE		TX channel 167800				
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									

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1661.7323	-37.68	-47.25	-9.57	-13.00	34.25	Vertical	PK	PASS
2	2502.3005	-47.62	-53.53	-5.91	-13.00	40.53	Vertical	PK	PASS

FCC PART 22

Level[dBm]

Frequency[Hz]

Limit Final Test Vertical

FCC PART 22-Limit

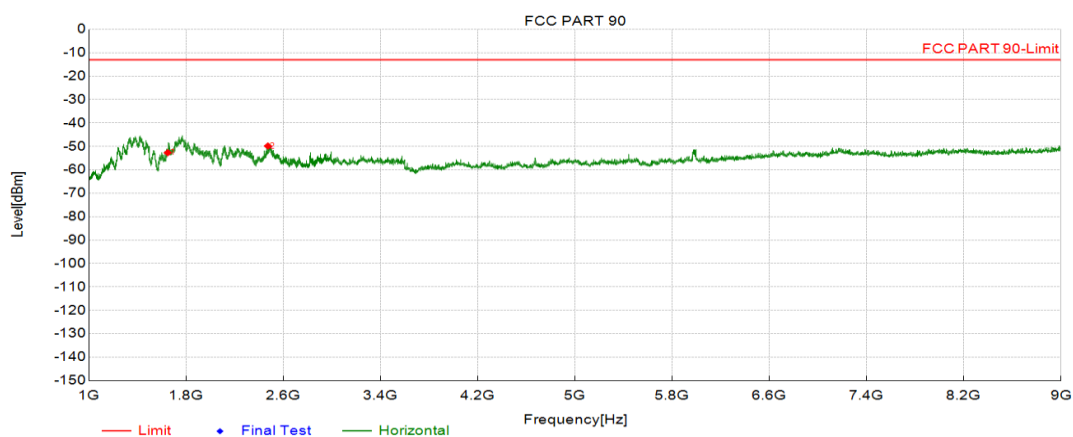
Test Report No.: RF260623B001

N26			
CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 164800
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

Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1648.1296	-43.20	-52.69	-9.49	-13.00	39.69	Horizon	PK	PASS
2	2472.2945	-43.67	-49.83	-6.16	-13.00	36.83	Horizon	PK	PASS

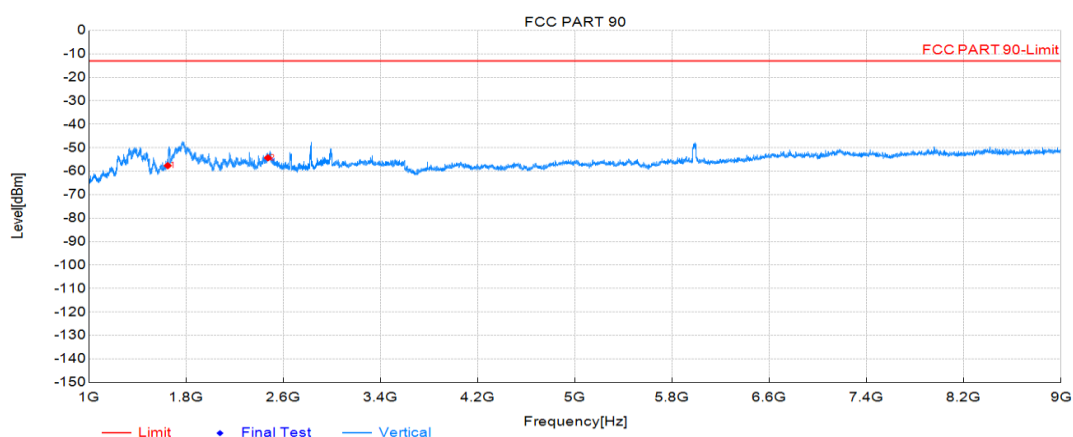


Test Report No.: RF260623B001

CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 164800
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			

Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1648.1296	-48.09	-57.63	-9.54	-13.00	44.63	Vertical	PK	PASS
2	2472.2945	-48.25	-54.28	-6.03	-13.00	41.28	Vertical	PK	PASS



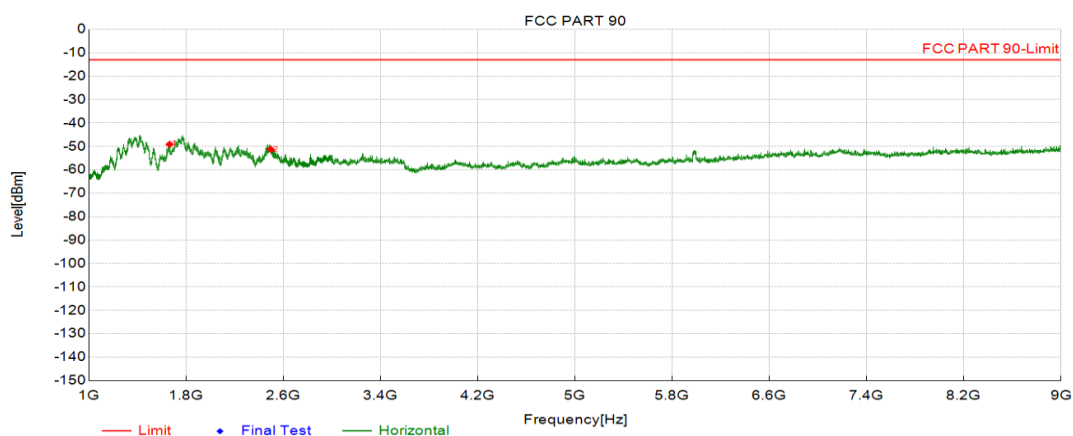
Test Report No.: RF260623B001

CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 166300
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

Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1663.3327	-39.57	-49.12	-9.55	-13.00	36.12	Horizon	PK	PASS
2	2494.6989	-45.20	-51.25	-6.05	-13.00	38.25	Horizon	PK	PASS



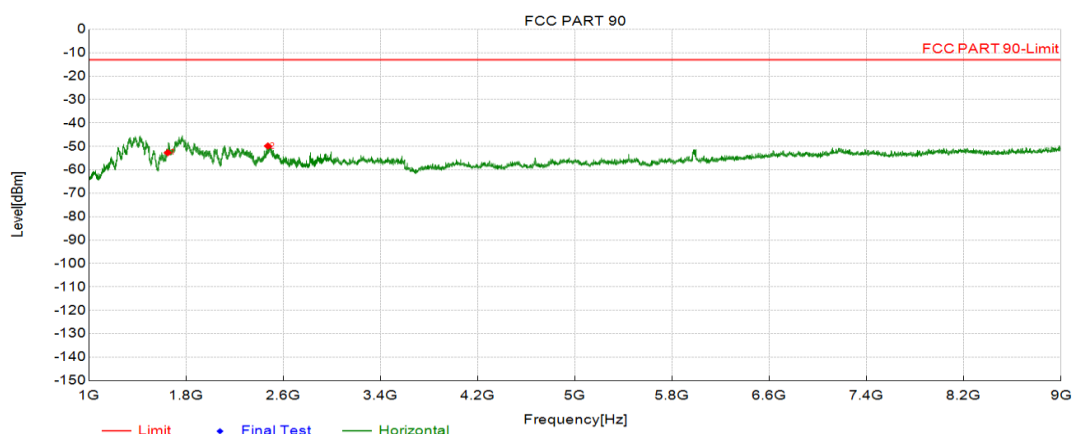


Test Report No.: RF260623B001

CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 166300
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			

Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1648.1296	-43.20	-52.69	-9.49	-13.00	39.69	Horizon	PK	PASS
2	2472.2945	-43.67	-49.83	-6.16	-13.00	36.83	Horizon	PK	PASS



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CO., LTD.

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4th Road, Chiwan Community, Zhaoshang Street,
Nanshan District, Shenzhen, Guangdong, P.R. CHINA

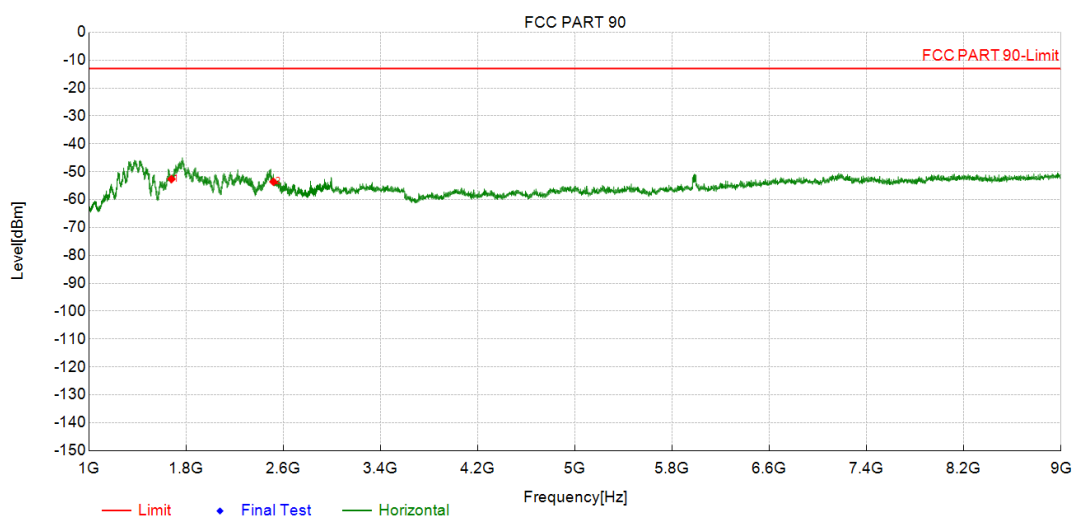
Mobile: +86 15118052731
Email:shimin.wang@boomwavelab.com

Test Report No.: RF260623B001

CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 167800
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

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1678.1356	-43.04	-52.64	-9.60	-13.00	39.64	Horizontal	PK	PASS
2	2517.1034	-47.65	-53.60	-5.95	-13.00	40.60	Horizontal	PK	PASS



Test Report No.: RF260623B001

CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 167800
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			

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1678.1356	-45.42	-55.02	-9.60	-13.00	42.02	Vertical	PK	PASS
2	2517.1034	-49.34	-55.18	-5.84	-13.00	42.18	Vertical	PK	PASS

FCC PART 90

Level[dBm]

Frequency[Hz]

Limit Final Test Vertical

FCC PART 90-Limit



Test Report No.: RF260623B001
M.2 form

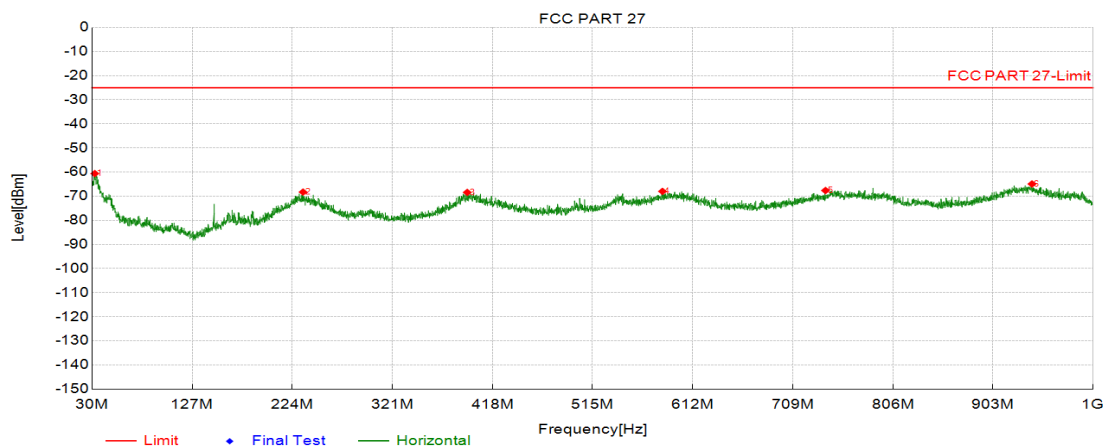
BELOW 1GHz WORST-CASE DATA

LTE Band 5 (10MHZ)			
MODE	TX channel 20450	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

Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	32.7165	-57.90	-60.60	-2.70	-25.00	35.60	Horizon	PK	PASS
2	234.5169	-63.24	-68.28	-5.04	-25.00	43.28	Horizon	PK	PASS
3	393.6287	-65.67	-68.42	-2.75	-25.00	43.42	Horizon	PK	PASS
4	582.8166	-66.55	-68.00	-1.45	-25.00	43.00	Horizon	PK	PASS
5	740.7642	-67.42	-67.63	-0.21	-25.00	42.63	Horizon	PK	PASS
6	940.8182	-68.30	-64.92	3.38	-25.00	39.92	Horizon	PK	PASS



BOOMWAVE TEST (SHENZHEN)
CO., LTD.

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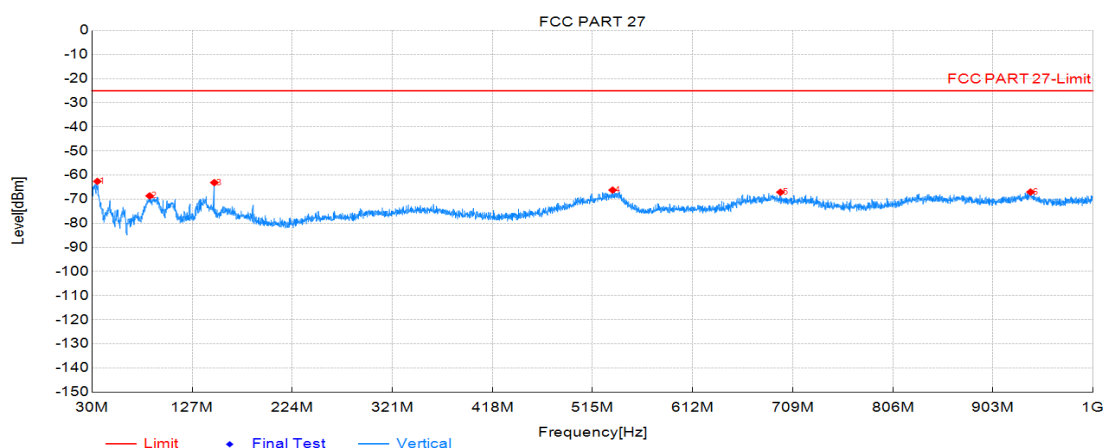
Test Report No.: RF260623B001

MODE	TX channel 20450	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

Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	35.239	-49.85	-62.60	-12.75	-25.00	37.60	Vertical	PK	PASS
2	85.8832	-53.98	-68.63	-14.65	-25.00	43.63	Vertical	PK	PASS
3	148.5577	-53.21	-63.11	-9.90	-25.00	38.11	Vertical	PK	PASS
4	534.5009	-66.10	-66.23	-0.13	-25.00	41.23	Vertical	PK	PASS
5	697.1054	-66.51	-67.11	-0.60	-25.00	42.11	Vertical	PK	PASS
6	939.4599	-68.69	-67.04	1.65	-25.00	42.04	Vertical	PK	PASS



BOOMWAVE TEST (SHENZHEN)
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Test Report No.: RF260623B001

ABOVE 1GHz DATA

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

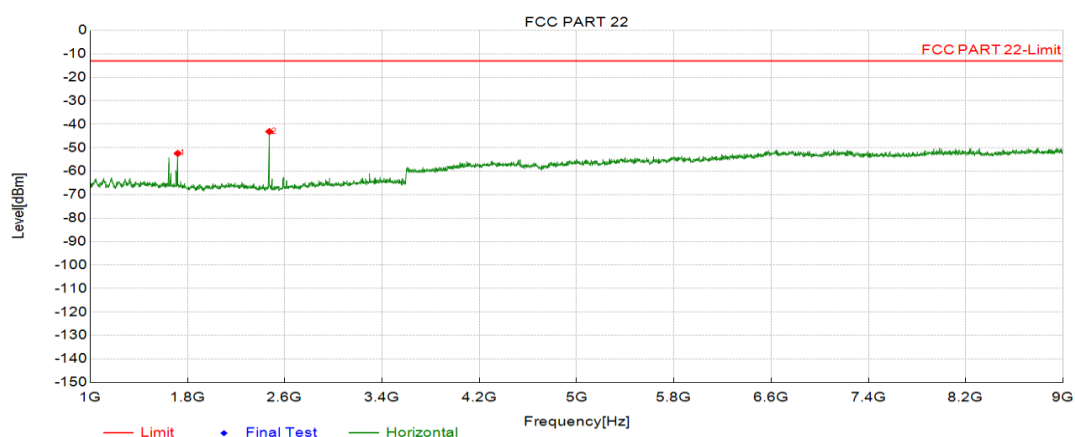
LTE Band 5

CHANNEL BANDWIDTH	10MHz/QPSK	MODE	TX channel 20450
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

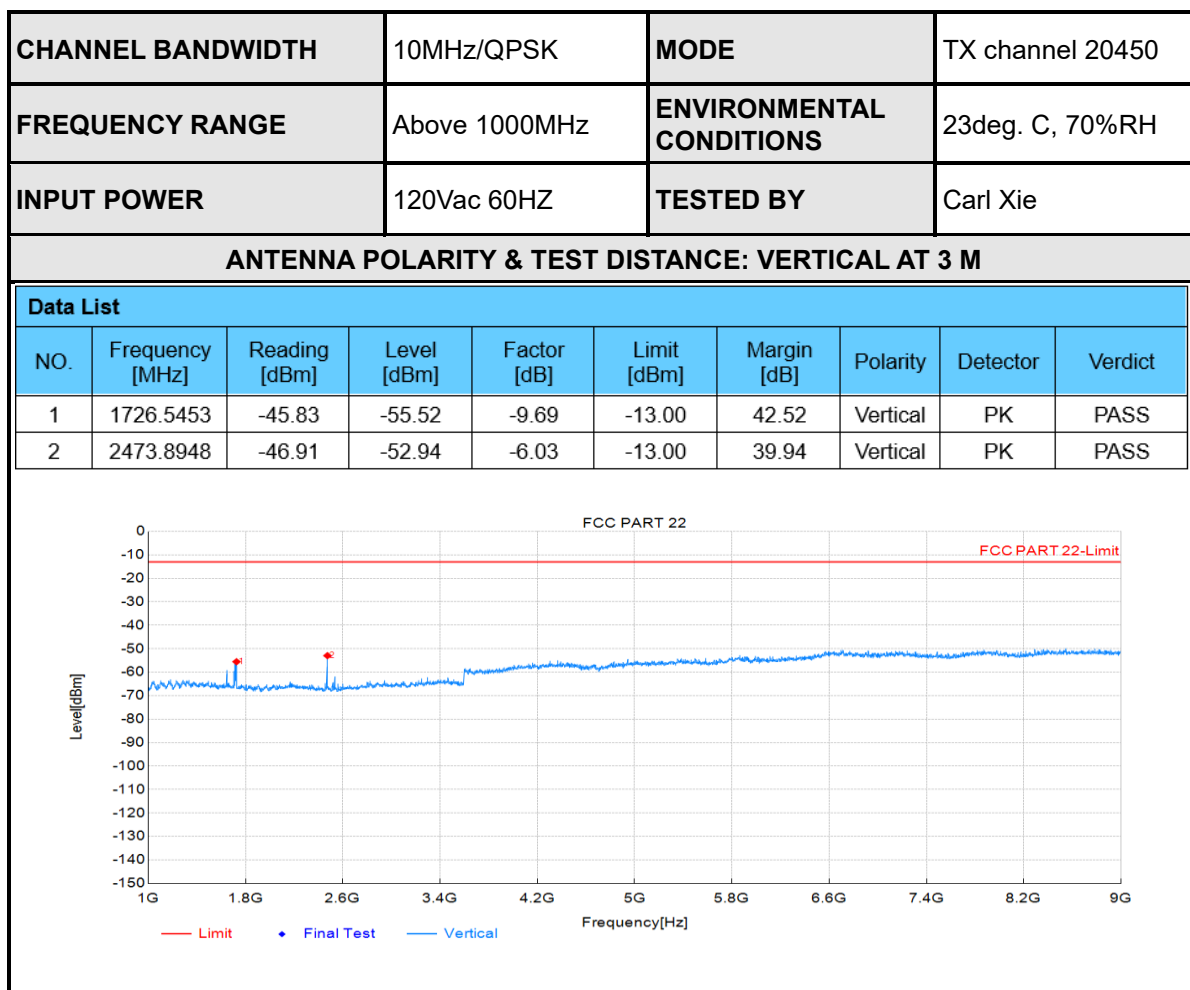
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1720.144	-42.69	-52.42	-9.73	-13.00	39.42	Horizon	PK	PASS
2	2473.8948	-36.97	-43.13	-6.16	-13.00	30.13	Horizon	PK	PASS



Test Report No.: RF260623B001



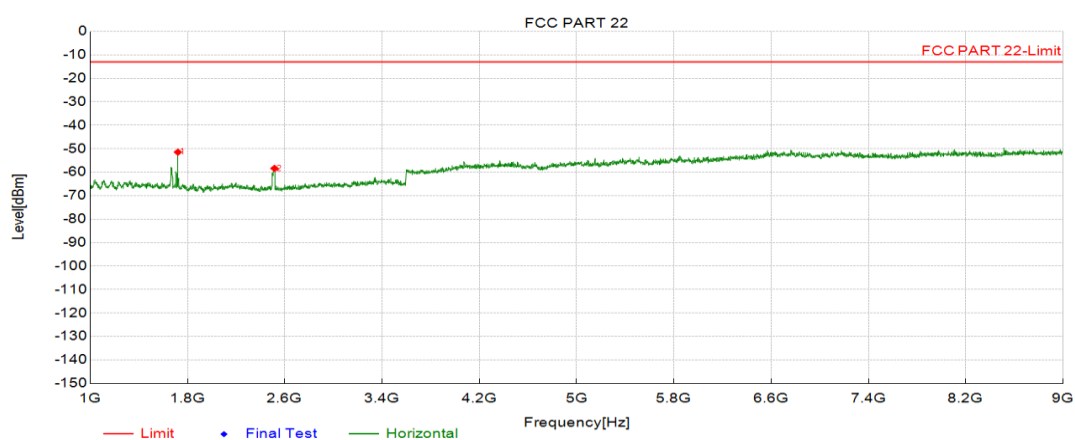
Test Report No.: RF260623B001

CHANNEL BANDWIDTH	10MHz/QPSK	MODE	TX channel 20525
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

Data List

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1721.7443	-41.73	-51.46	-9.73	-13.00	38.46	Horizon	PK	PASS
2	2515.5031	-52.42	-58.37	-5.95	-13.00	45.37	Horizon	PK	PASS



Test Report No.: RF260623B001

CHANNEL BANDWIDTH	10MHz/QPSK	MODE	TX channel 20525						
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									
Data List									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1667.3335	-50.96	-60.54	-9.58	-13.00	47.54	Vertical	PK	PASS
2	2347.4695	-59.20	-65.62	-6.42	-13.00	52.62	Vertical	PK	PASS

FCC PART 22

Legend: — Limit • Final Test — Vertical

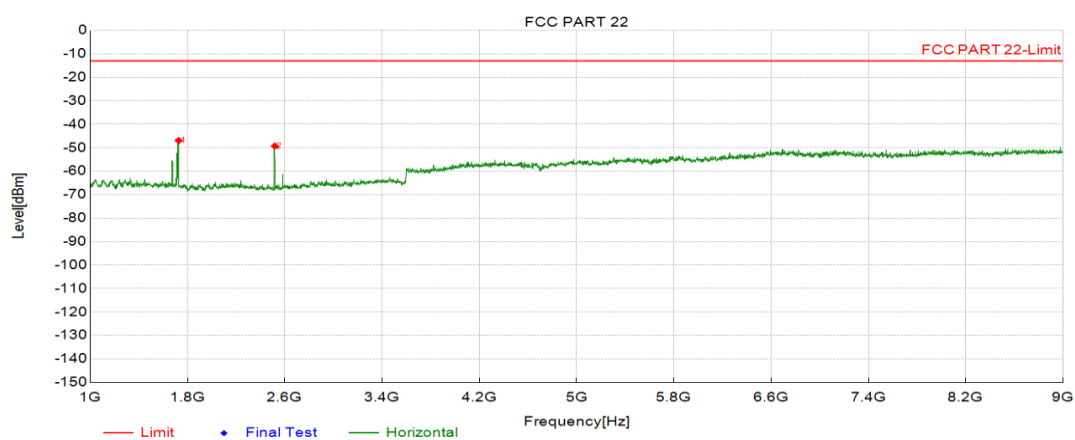
Test Report No.: RF260623B001

CHANNEL BANDWIDTH	10MHz/QPSK	MODE	TX channel 20600
FREQUENCY RANGE	Above 1000MHz	ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH
INPUT POWER	120Vac 60HZ	TESTED BY	Carl Xie

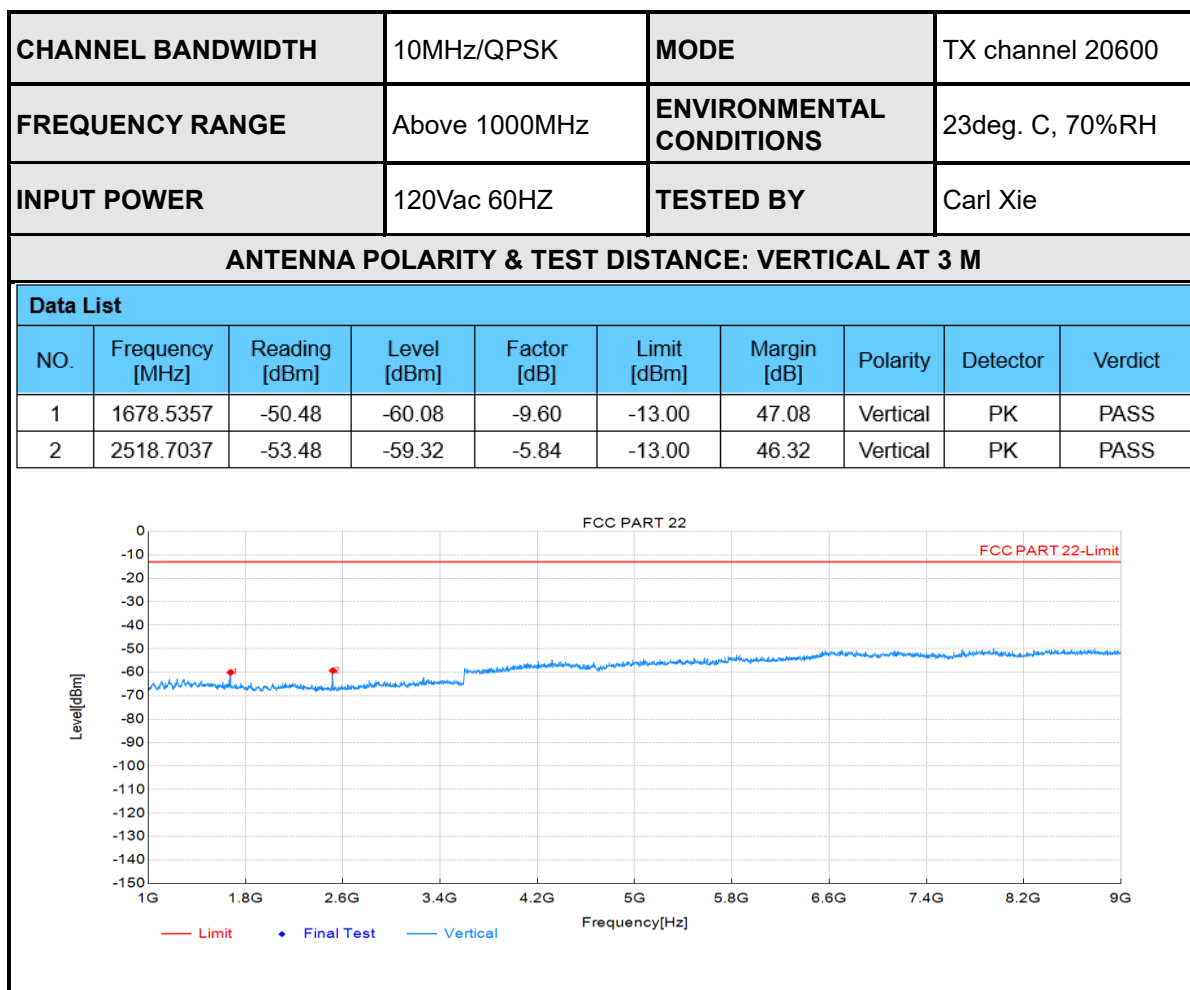
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Data List

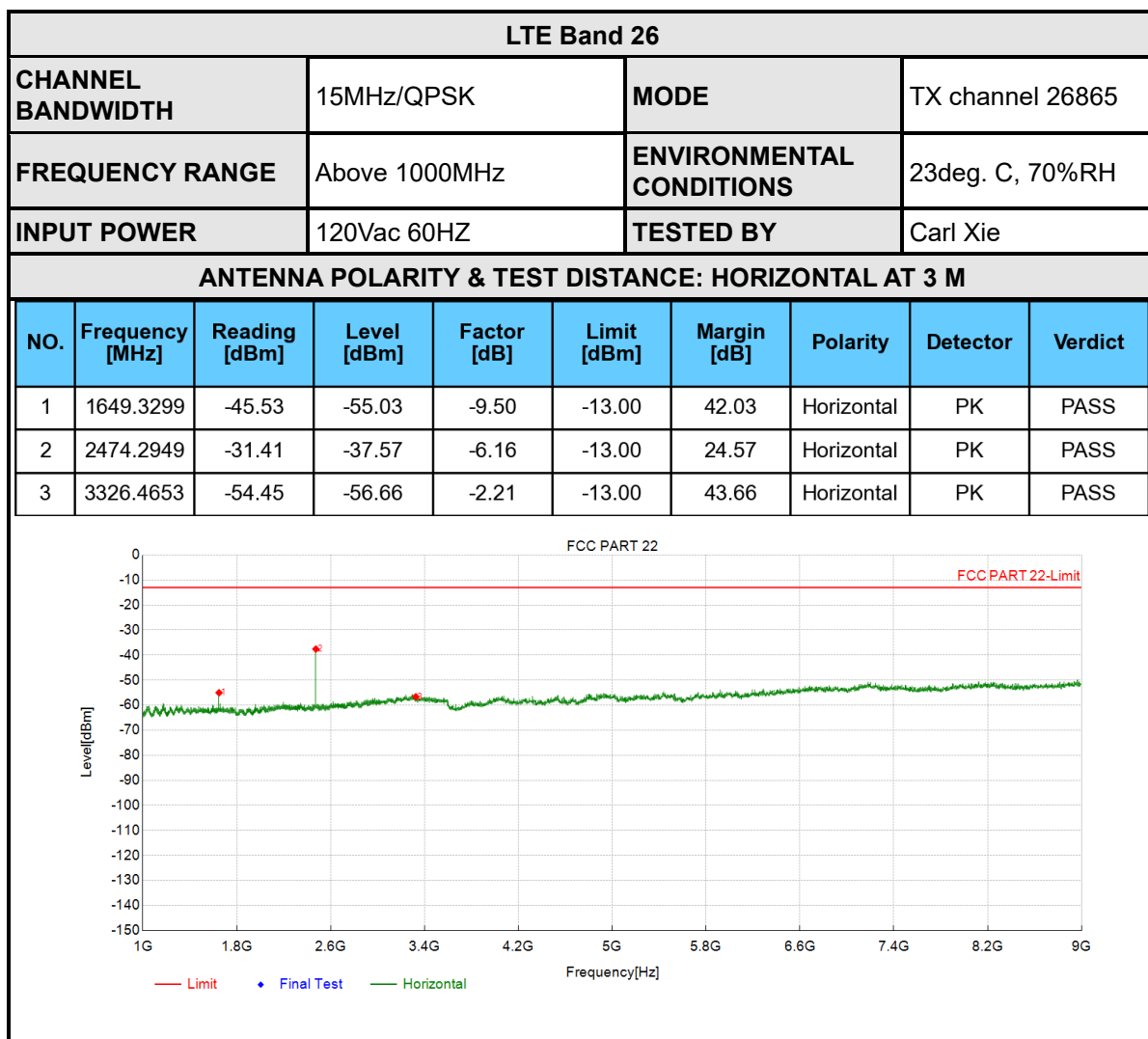
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1728.1456	-37.18	-46.93	-9.75	-13.00	33.93	Horizon	PK	PASS
2	2518.7037	-43.35	-49.29	-5.94	-13.00	36.29	Horizon	PK	PASS



Test Report No.: RF260623B001



Test Report No.: RF260623B001



Test Report No.: RF260623B001

CHANNEL BANDWIDTH		15MHz/QPSK		MODE		TX channel 26865			
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									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1714.5429	-32.28	-41.94	-9.66	-13.00	28.94	Vertical	PK	PASS
2	2474.2949	-42.89	-48.92	-6.03	-13.00	35.92	Vertical	PK	PASS
3	3326.4653	-54.74	-57.04	-2.30	-13.00	44.04	Vertical	PK	PASS

FCC PART 22

Level[dBm]

Frequency[Hz]

Limit Final Test Vertical

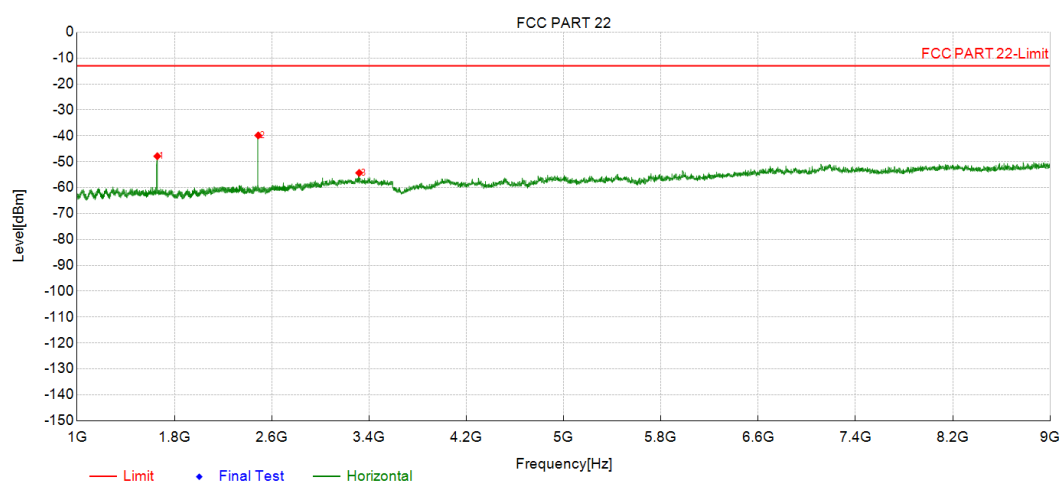
FCC PART 22-Limit

Test Report No.: RF260623B001

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

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1659.3319	-38.33	-47.87	-9.54	-13.00	34.87	Horizontal	PK	PASS
2	2489.4979	-33.76	-39.84	-6.08	-13.00	26.84	Horizontal	PK	PASS
3	3319.2639	-52.11	-54.31	-2.20	-13.00	41.31	Horizontal	PK	PASS



Test Report No.: RF260623B001

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									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1727.7455	-30.40	-40.09	-9.69	-13.00	27.09	Vertical	PK	PASS
2	2489.4979	-45.47	-51.43	-5.96	-13.00	38.43	Vertical	PK	PASS
3	3319.2639	-51.87	-54.16	-2.29	-13.00	41.16	Vertical	PK	PASS

FCC PART 22

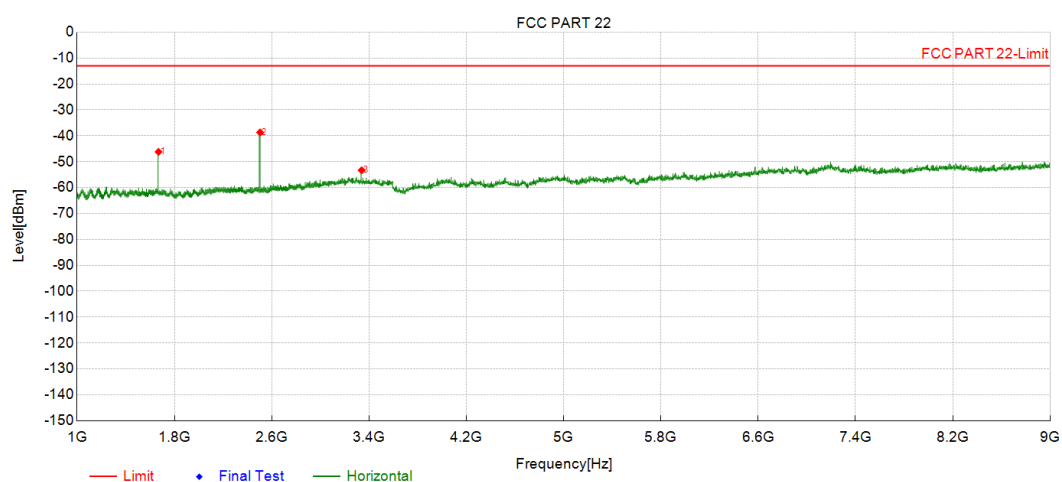
Legend: — Limit ♦ Final Test — Vertical

Test Report No.: RF260623B001

CHANNEL BANDWIDTH	15MHz/QPSK	MODE	TX channel 26965
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

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1669.7339	-36.63	-46.20	-9.57	-13.00	33.20	Horizontal	PK	PASS
2	2504.3009	-32.67	-38.68	-6.01	-13.00	25.68	Horizontal	PK	PASS
3	3339.6679	-51.12	-53.31	-2.19	-13.00	40.31	Horizontal	PK	PASS



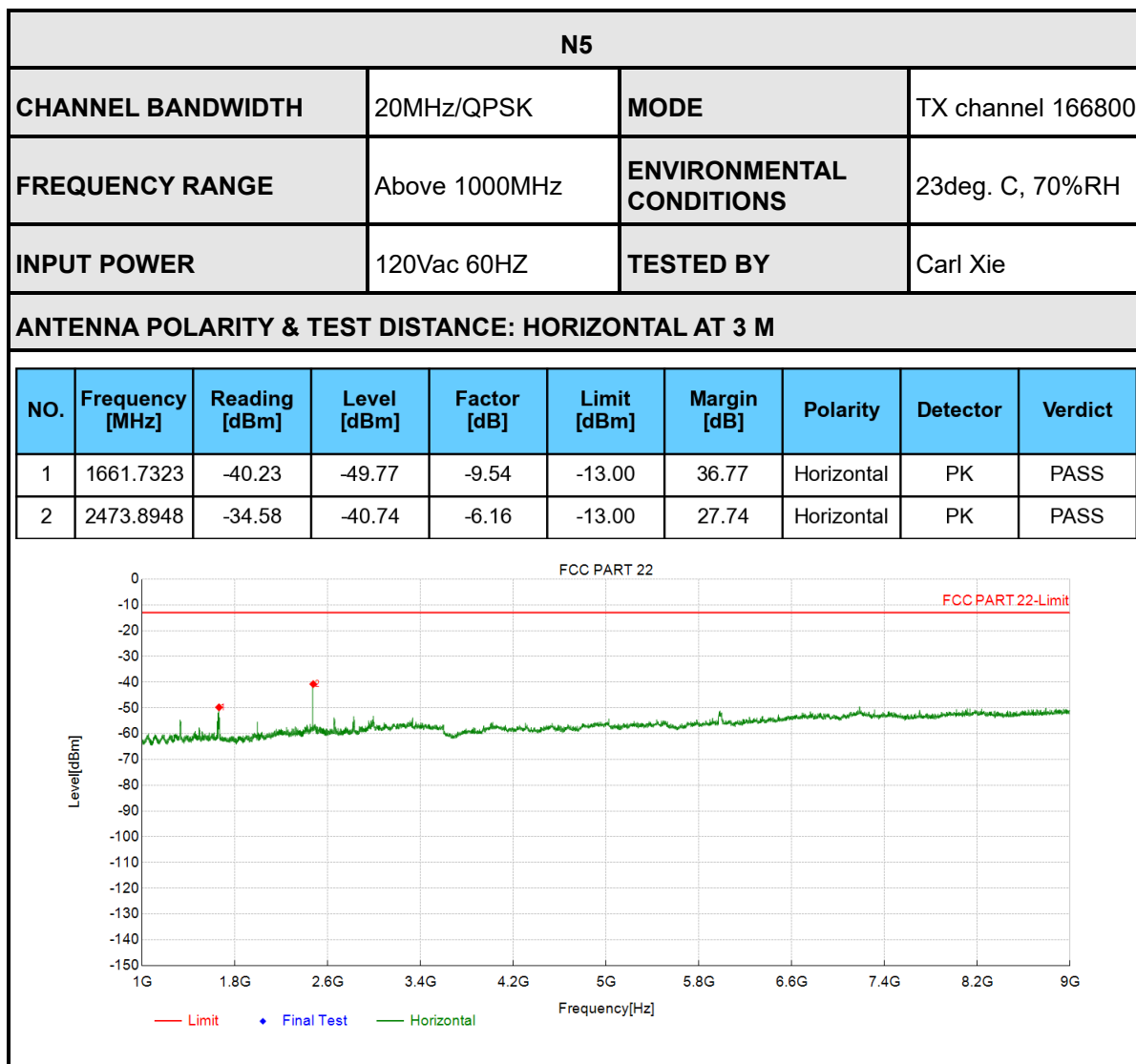
Test Report No.: RF260623B001

CHANNEL BANDWIDTH		15MHz/QPSK		MODE		TX channel 26965			
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									
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1728.9458	-35.62	-45.31	-9.69	-13.00	32.31	Vertical	PK	PASS
2	2504.7009	-42.87	-48.76	-5.89	-13.00	35.76	Vertical	PK	PASS
3	3338.4677	-49.69	-51.98	-2.29	-13.00	38.98	Vertical	PK	PASS

FCC PART 22

Legend: — Limit ♦ Final Test — Vertical

Test Report No.: RF260623B001
5G NR

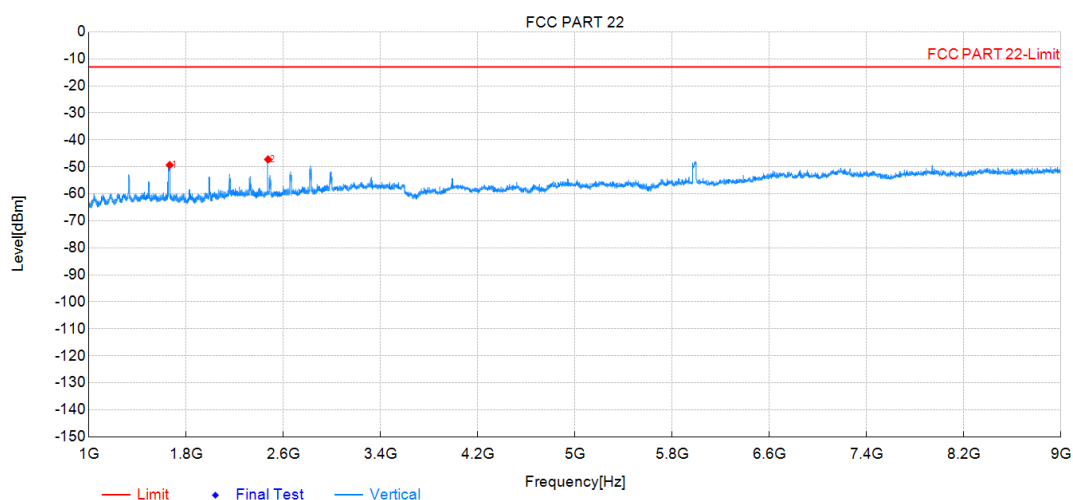


Test Report No.: RF260623B001

CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 166800
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

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1664.1328	-39.74	-49.32	-9.58	-13.00	36.32	Vertical	PK	PASS
2	2473.4947	-41.21	-47.24	-6.03	-13.00	34.24	Vertical	PK	PASS

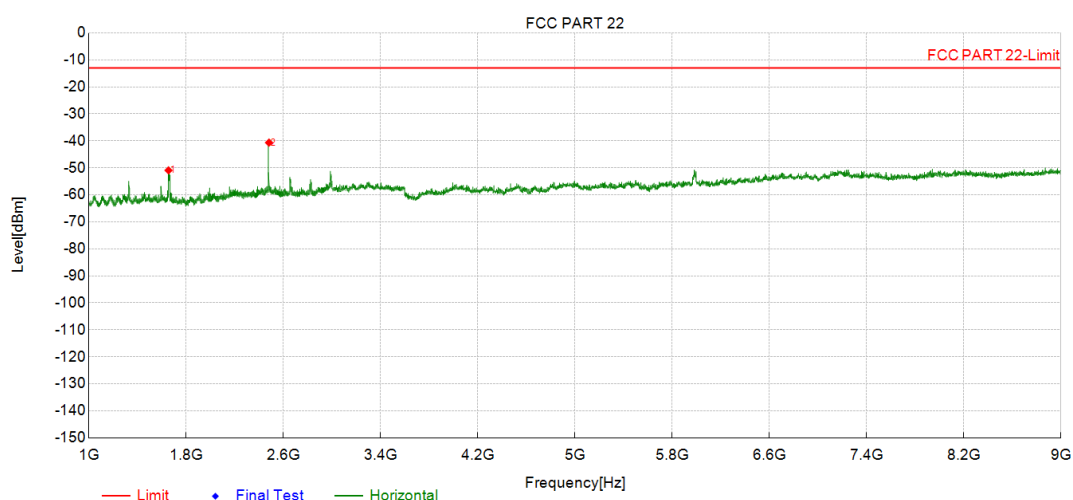


Test Report No.: RF260623B001

CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 167300
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

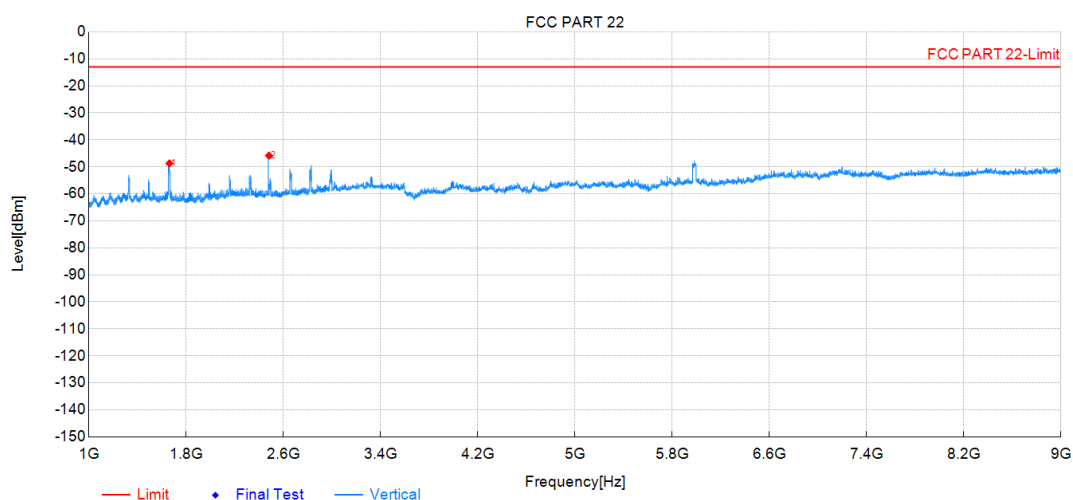
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1	1654.1308	-41.40	-50.92	-9.52	-13.00	37.92	Horizontal	PK	PASS
2	2481.0962	-34.51	-40.63	-6.12	-13.00	27.63	Horizontal	PK	PASS



Test Report No.: RF260623B001

CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 167300
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			

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1661.7323	-39.15	-48.72	-9.57	-13.00	35.72	Vertical	PK	PASS
2	2481.0962	-39.83	-45.82	-5.99	-13.00	32.82	Vertical	PK	PASS

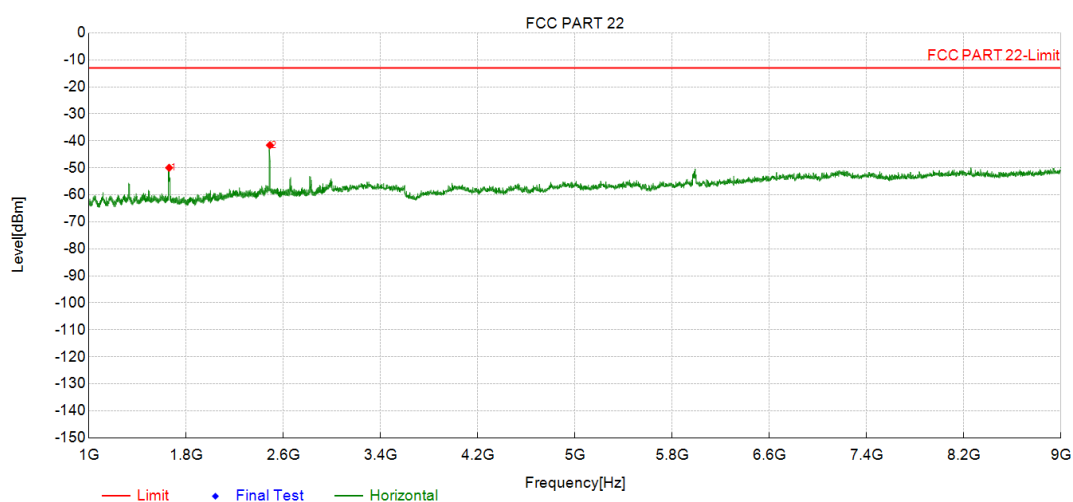


Test Report No.: RF260623B001

CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 167800
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

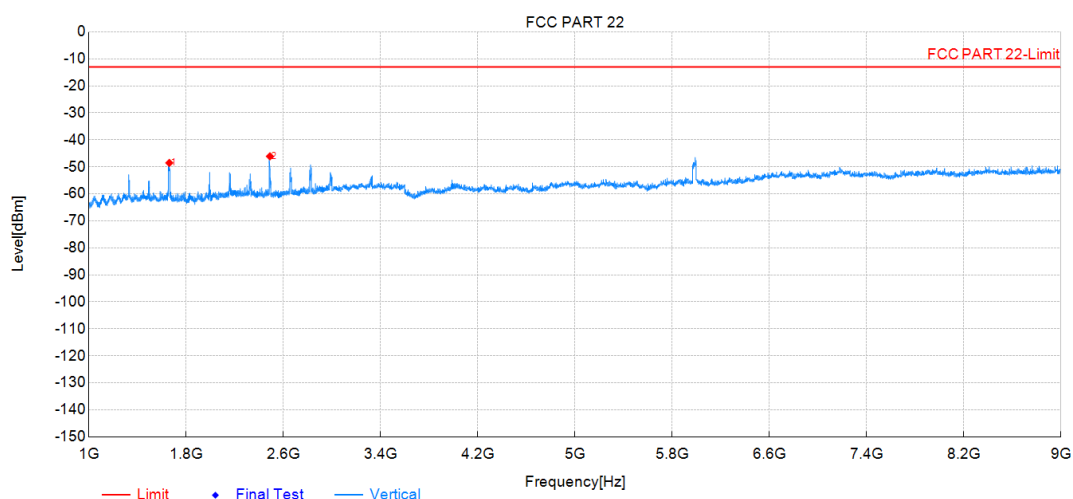
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1659.3319	-40.42	-49.96	-9.54	-13.00	36.96	Horizontal	PK	PASS
2	2488.6977	-35.51	-41.59	-6.08	-13.00	28.59	Horizontal	PK	PASS



Test Report No.: RF260623B001

CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 167800
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			

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1660.9322	-38.95	-48.52	-9.57	-13.00	35.52	Vertical	PK	PASS
2	2488.6977	-40.13	-46.09	-5.96	-13.00	33.09	Vertical	PK	PASS

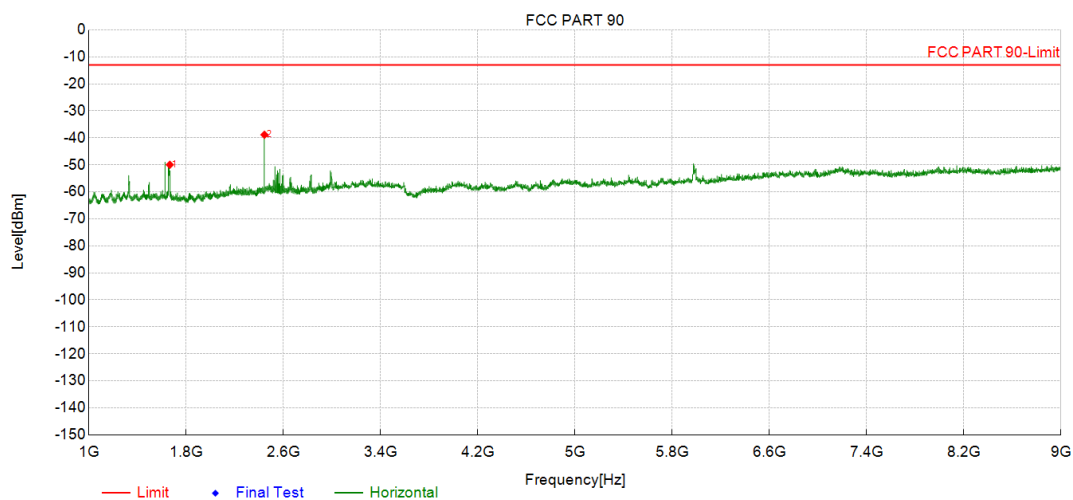


Test Report No.: RF260623B001

N26			
CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 164800
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

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1665.3331	-40.39	-49.95	-9.56	-13.00	36.95	Horizontal	PK	PASS
2	2443.4887	-32.53	-38.83	-6.30	-13.00	25.83	Horizontal	PK	PASS

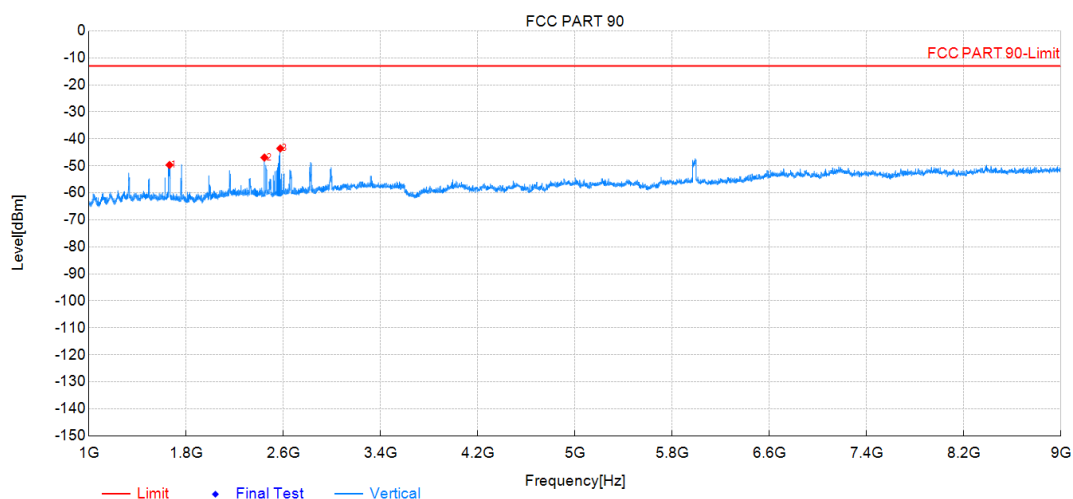


Test Report No.: RF260623B001

CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 164800
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

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1662.5325	-40.09	-49.67	-9.58	-13.00	36.67	Vertical	PK	PASS
2	2443.4887	-40.76	-46.91	-6.15	-13.00	33.91	Vertical	PK	PASS
3	2573.9148	-37.95	-43.55	-5.60	-13.00	30.55	Vertical	PK	PASS

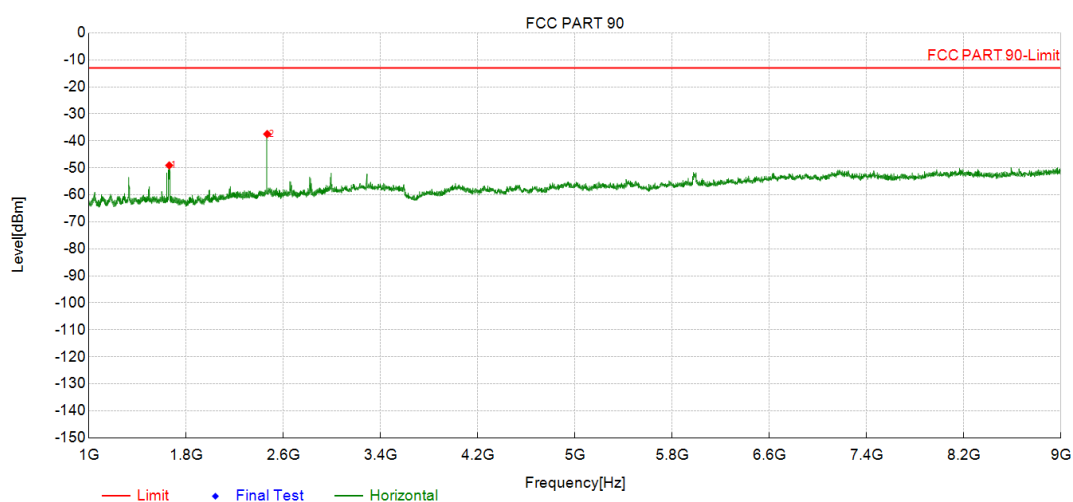


Test Report No.: RF260623B001

CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 166300
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

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1660.132	-39.55	-49.09	-9.54	-13.00	36.09	Horizontal	PK	PASS
2	2466.2933	-31.28	-37.47	-6.19	-13.00	24.47	Horizontal	PK	PASS

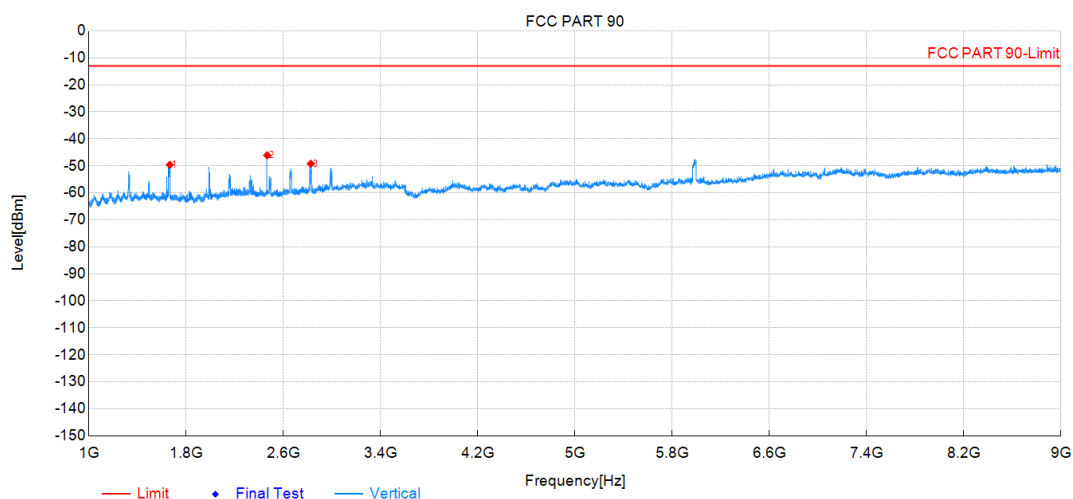


Test Report No.: RF260623B001

CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 166300
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

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1664.933	-40.01	-49.59	-9.58	-13.00	36.59	Vertical	PK	PASS
2	2465.8932	-40.02	-46.08	-6.06	-13.00	33.08	Vertical	PK	PASS
3	2824.765	-44.87	-49.21	-4.34	-13.00	36.21	Vertical	PK	PASS

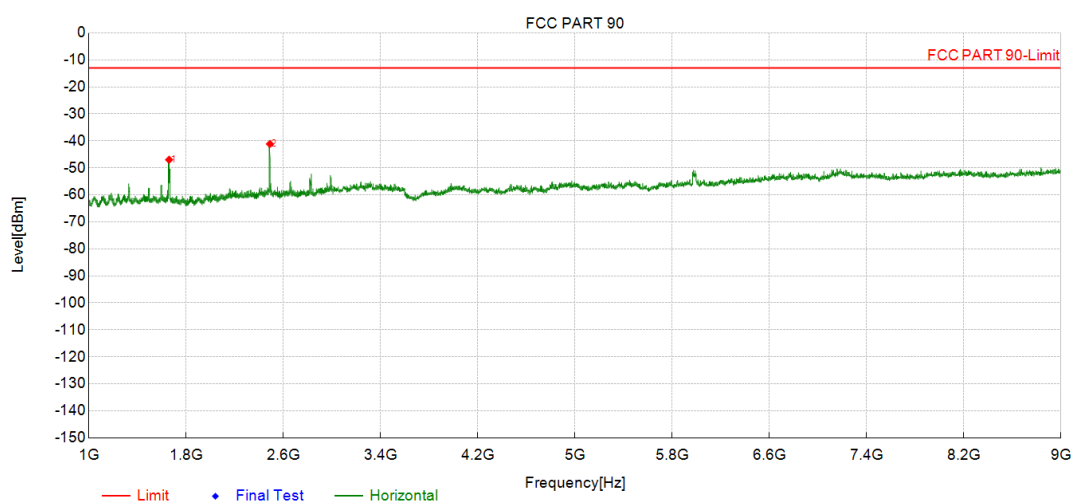


Test Report No.: RF260623B001

CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 167800
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

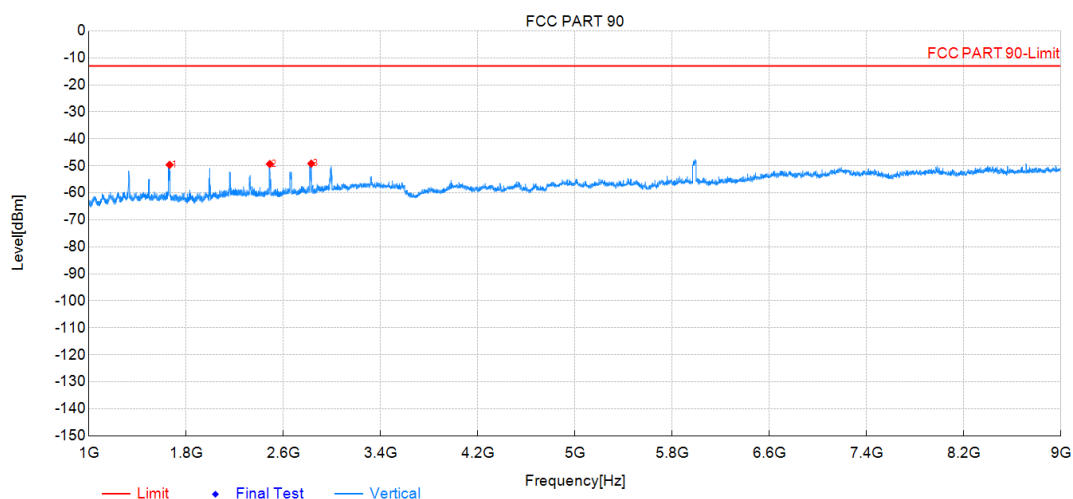
NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1658.9318	-37.44	-46.98	-9.54	-13.00	33.98	Horizontal	PK	PASS
2	2488.6977	-35.06	-41.14	-6.08	-13.00	28.14	Horizontal	PK	PASS



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CHANNEL BANDWIDTH	20MHz/QPSK	MODE	TX channel 167800
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			

NO.	Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1	1663.3327	-40.03	-49.61	-9.58	-13.00	36.61	Vertical	PK	PASS
2	2488.2977	-43.35	-49.31	-5.96	-13.00	36.31	Vertical	PK	PASS
3	2828.7658	-44.84	-49.16	-4.32	-13.00	36.16	Vertical	PK	PASS

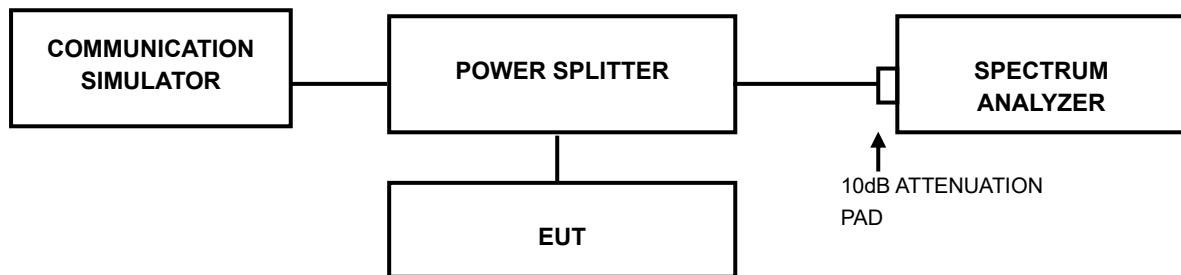


3.7 PEAK TO AVERAGE RATIO

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%.



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3.7.4 TEST RESULTS

Please Refer to Appendix of this test report.



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4 PHOTOGRAPHS OF THE TEST CONFIGURATION

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



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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.

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Accredited Test Lab Cert 7607.01

Shenzhen EMC/RF Lab:

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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.



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7 APPENDIX:

LTE BAND 26(824-849 INCLUDING B5)

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
26(824-849)	1.4MHz	QPSK	26797	1RB#0	3.08	13	PASS
26(824-849)	1.4MHz	QPSK	26797	6RB#0	4.69	13	PASS
26(824-849)	1.4MHz	QPSK	26915	1RB#0	4.68	13	PASS
26(824-849)	1.4MHz	QPSK	26915	6RB#0	5.04	13	PASS
26(824-849)	1.4MHz	QPSK	27033	1RB#0	3.71	13	PASS
26(824-849)	1.4MHz	QPSK	27033	6RB#0	3.97	13	PASS
26(824-849)	1.4MHz	64QAM	26797	1RB#0	4.82	13	PASS
26(824-849)	1.4MHz	64QAM	26797	6RB#0	5.58	13	PASS
26(824-849)	1.4MHz	64QAM	26915	1RB#0	5.63	13	PASS
26(824-849)	1.4MHz	64QAM	26915	6RB#0	5.89	13	PASS
26(824-849)	1.4MHz	64QAM	27033	1RB#0	4.75	13	PASS
26(824-849)	1.4MHz	64QAM	27033	6RB#0	4.92	13	PASS
26(824-849)	1.4MHz	16QAM	26797	1RB#0	3.94	13	PASS
26(824-849)	1.4MHz	16QAM	26797	6RB#0	5.21	13	PASS
26(824-849)	1.4MHz	16QAM	26915	1RB#0	5.16	13	PASS
26(824-849)	1.4MHz	16QAM	26915	6RB#0	5.53	13	PASS
26(824-849)	1.4MHz	16QAM	27033	1RB#0	4.19	13	PASS
26(824-849)	1.4MHz	16QAM	27033	6RB#0	4.43	13	PASS
26(824-849)	3MHz	QPSK	26805	1RB#0	4.89	13	PASS
26(824-849)	3MHz	QPSK	26805	15RB#0	5.61	13	PASS
26(824-849)	3MHz	QPSK	26915	1RB#0	5.54	13	PASS
26(824-849)	3MHz	QPSK	26915	15RB#0	5.07	13	PASS
26(824-849)	3MHz	QPSK	27025	1RB#0	4.56	13	PASS
26(824-849)	3MHz	QPSK	27025	15RB#0	4.43	13	PASS
26(824-849)	3MHz	64QAM	26805	1RB#0	6.17	13	PASS
26(824-849)	3MHz	64QAM	26805	15RB#0	6.85	13	PASS
26(824-849)	3MHz	64QAM	26915	1RB#0	6.52	13	PASS
26(824-849)	3MHz	64QAM	26915	15RB#0	5.89	13	PASS
26(824-849)	3MHz	64QAM	27025	1RB#0	5.55	13	PASS
26(824-849)	3MHz	64QAM	27025	15RB#0	5.34	13	PASS
26(824-849)	3MHz	16QAM	26805	1RB#0	5.52	13	PASS
26(824-849)	3MHz	16QAM	26805	15RB#0	6.31	13	PASS
26(824-849)	3MHz	16QAM	26915	1RB#0	6.22	13	PASS
26(824-849)	3MHz	16QAM	26915	15RB#0	5.56	13	PASS
26(824-849)	3MHz	16QAM	27025	1RB#0	5.13	13	PASS
26(824-849)	3MHz	16QAM	27025	15RB#0	4.99	13	PASS
26(824-849)	5MHz	QPSK	26815	1RB#0	4.76	13	PASS
26(824-849)	5MHz	QPSK	26815	25RB#0	5.71	13	PASS
26(824-849)	5MHz	QPSK	26915	1RB#0	5.60	13	PASS
26(824-849)	5MHz	QPSK	26915	25RB#0	6.05	13	PASS
26(824-849)	5MHz	QPSK	27015	1RB#0	5.06	13	PASS
26(824-849)	5MHz	QPSK	27015	25RB#0	4.90	13	PASS
26(824-849)	5MHz	64QAM	26815	1RB#0	6.01	13	PASS
26(824-849)	5MHz	64QAM	26815	25RB#0	6.97	13	PASS
26(824-849)	5MHz	64QAM	26915	1RB#0	6.84	13	PASS
26(824-849)	5MHz	64QAM	26915	25RB#0	6.27	13	PASS
26(824-849)	5MHz	64QAM	27015	1RB#0	5.89	13	PASS
26(824-849)	5MHz	64QAM	27015	25RB#0	5.74	13	PASS

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26(824-849)	5MHz	16QAM	26815	1RB#0	5.39	13	PASS
26(824-849)	5MHz	16QAM	26815	25RB#0	6.46	13	PASS
26(824-849)	5MHz	16QAM	26915	1RB#0	6.17	13	PASS
26(824-849)	5MHz	16QAM	26915	25RB#0	6.68	13	PASS
26(824-849)	5MHz	16QAM	27015	1RB#0	5.62	13	PASS
26(824-849)	5MHz	16QAM	27015	25RB#0	5.40	13	PASS
26(824-849)	10MHz	QPSK	26840	1RB#0	4.96	13	PASS
26(824-849)	10MHz	QPSK	26840	50RB#0	6.15	13	PASS
26(824-849)	10MHz	QPSK	26915	1RB#0	5.85	13	PASS
26(824-849)	10MHz	QPSK	26915	50RB#0	6.17	13	PASS
26(824-849)	10MHz	QPSK	26990	1RB#0	4.43	13	PASS
26(824-849)	10MHz	QPSK	26990	50RB#0	5.33	13	PASS
26(824-849)	10MHz	64QAM	26840	1RB#0	6.26	13	PASS
26(824-849)	10MHz	64QAM	26840	50RB#0	7.09	13	PASS
26(824-849)	10MHz	64QAM	26915	1RB#0	6.99	13	PASS
26(824-849)	10MHz	64QAM	26915	50RB#0	6.77	13	PASS
26(824-849)	10MHz	64QAM	26990	1RB#0	5.43	13	PASS
26(824-849)	10MHz	64QAM	26990	50RB#0	7.17	13	PASS
26(824-849)	10MHz	16QAM	26840	1RB#0	5.43	13	PASS
26(824-849)	10MHz	16QAM	26840	50RB#0	6.74	13	PASS
26(824-849)	10MHz	16QAM	26915	1RB#0	6.50	13	PASS
26(824-849)	10MHz	16QAM	26915	50RB#0	6.67	13	PASS
26(824-849)	10MHz	16QAM	26990	1RB#0	4.92	13	PASS
26(824-849)	10MHz	16QAM	26990	50RB#0	6.79	13	PASS
26(824-849)	15MHz	QPSK	26865	1RB#0	4.27	13	PASS
26(824-849)	15MHz	QPSK	26865	75RB#0	6.16	13	PASS
26(824-849)	15MHz	QPSK	26915	1RB#0	5.75	13	PASS
26(824-849)	15MHz	QPSK	26915	75RB#0	6.42	13	PASS
26(824-849)	15MHz	QPSK	26965	1RB#0	5.57	13	PASS
26(824-849)	15MHz	QPSK	26965	75RB#0	5.57	13	PASS
26(824-849)	15MHz	64QAM	26865	1RB#0	6.10	13	PASS
26(824-849)	15MHz	64QAM	26865	75RB#0	7.13	13	PASS
26(824-849)	15MHz	64QAM	26915	1RB#0	6.91	13	PASS
26(824-849)	15MHz	64QAM	26915	75RB#0	7.22	13	PASS
26(824-849)	15MHz	64QAM	26965	1RB#0	5.73	13	PASS
26(824-849)	15MHz	64QAM	26965	75RB#0	6.12	13	PASS
26(824-849)	15MHz	16QAM	26865	1RB#0	4.71	13	PASS
26(824-849)	15MHz	16QAM	26865	75RB#0	6.88	13	PASS
26(824-849)	15MHz	16QAM	26915	1RB#0	6.52	13	PASS
26(824-849)	15MHz	16QAM	26915	75RB#0	7.00	13	PASS
26(824-849)	15MHz	16QAM	26965	1RB#0	6.12	13	PASS
26(824-849)	15MHz	16QAM	26965	75RB#0	5.91	13	PASS

Test Graphs

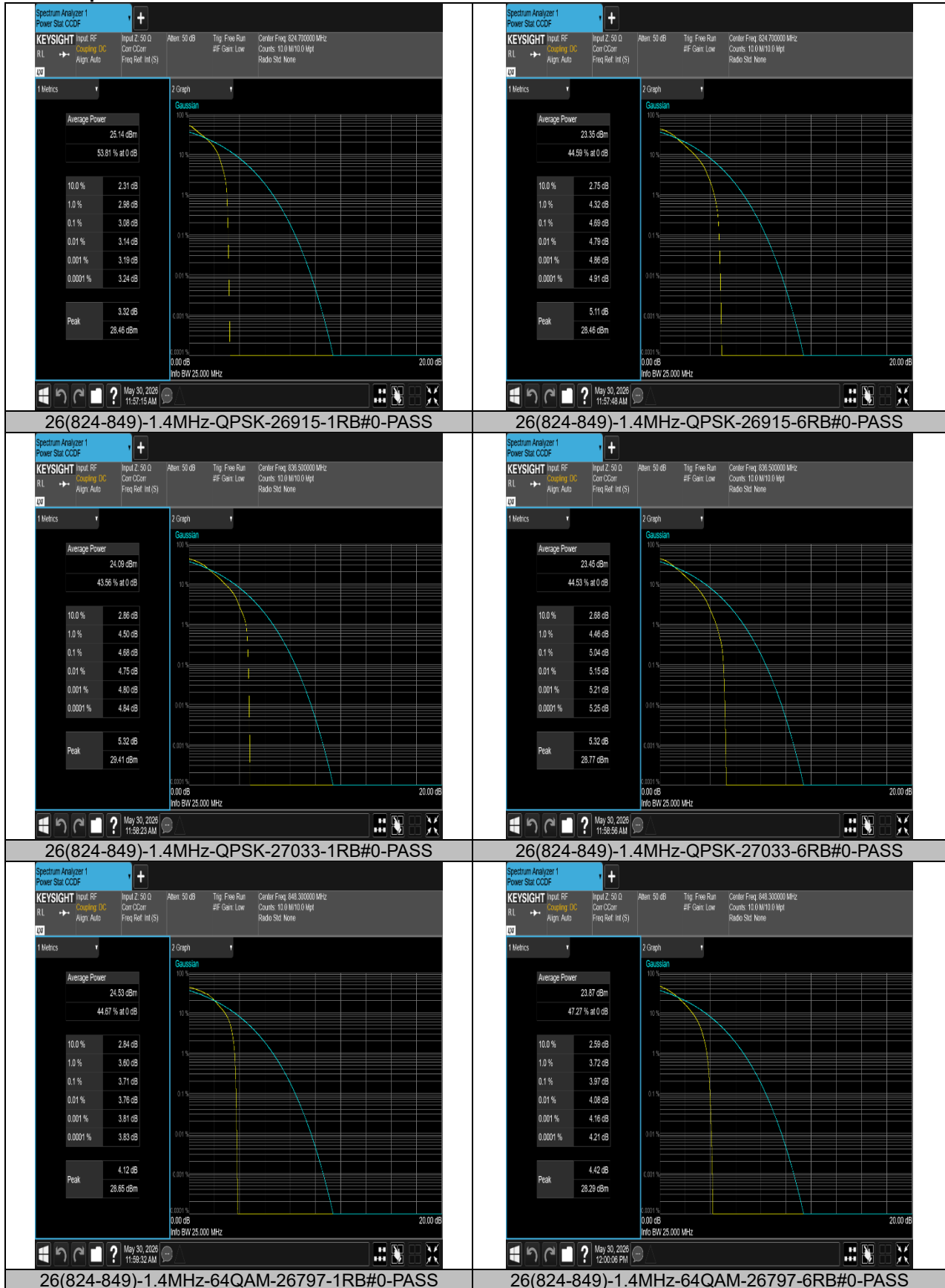
26(824-849)-1.4MHz-QPSK-26797-1RB#0-PASS	26(824-849)-1.4MHz-QPSK-26797-6RB#0-PASS
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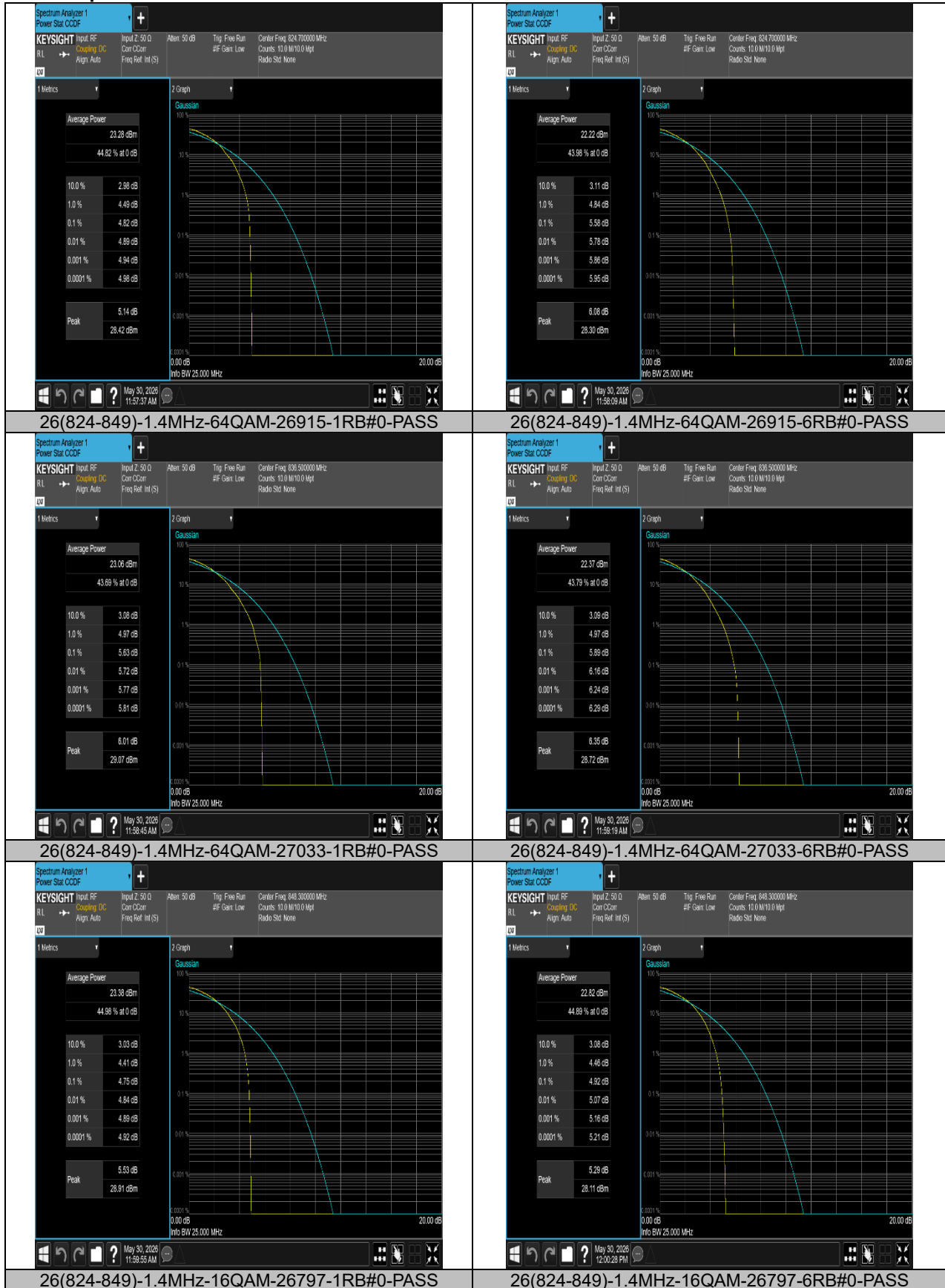


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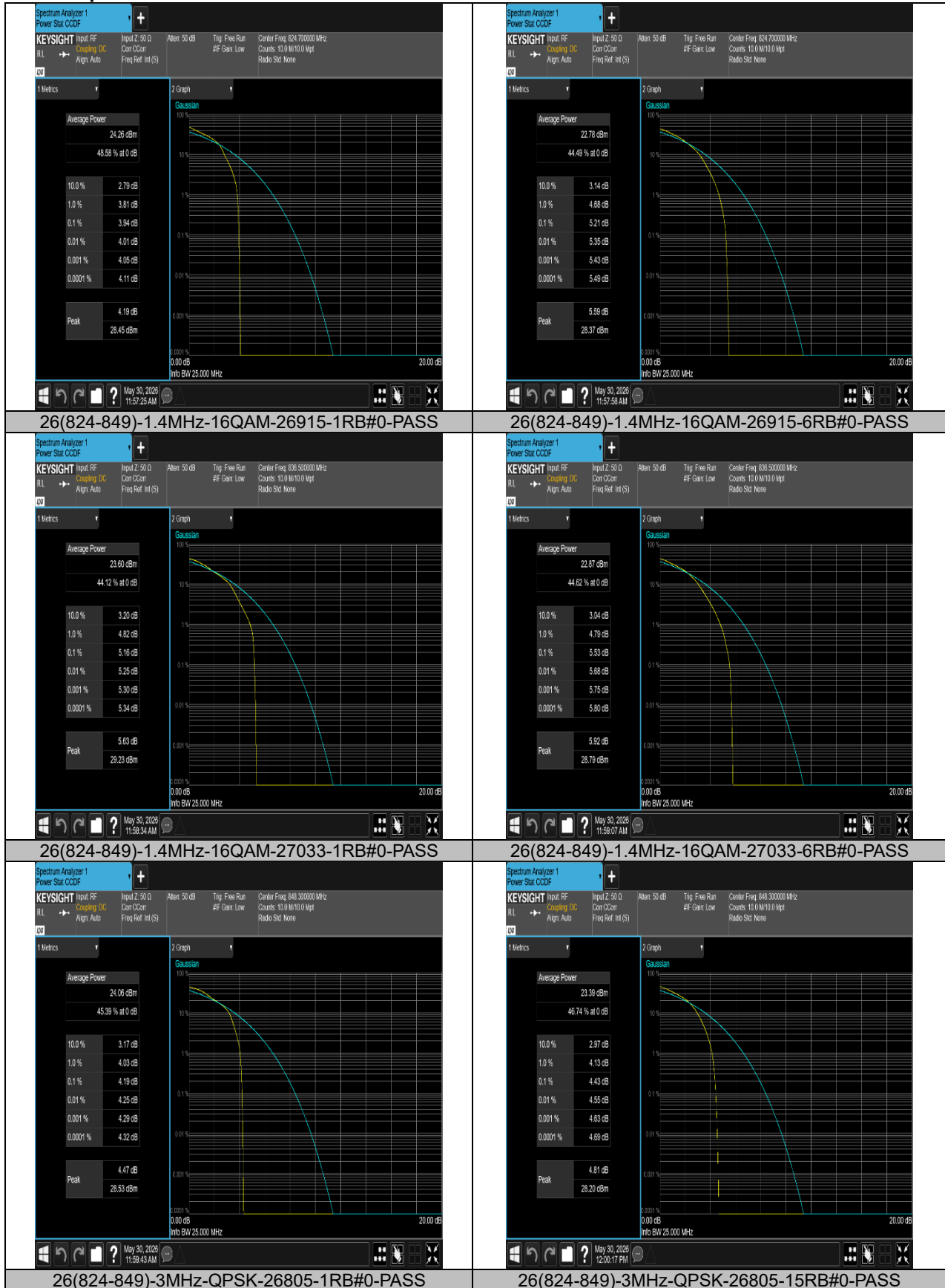


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