

MEASUREMENT REPORT

FCC PART 22 & 27

FCC ID: XIA-CFW2591

Applicant: NetComm Wireless Pty Ltd

Application Type: Certification

Product: 5G High Power mmWave Outdoor CPE

Model No.: CFW-2591

Brand Name: Casa Systems

FCC Rule Part(s): Part 22, 27

Test Procedure(s): ANSI C63.26: 2015

Test Date: October 25 ~ November 09, 2021

Reviewed By:

Sunny Sun

Approved By:

Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.26-2015. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2110RSU037-U2	Rev. 01	Initial Report	12-08-2021	Valid

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1. GENERAL INFORMATION

1.1. Applicant

NetComm Wireless Pty Ltd

Level 5, 18-20 Orion Road, Lane Cove, NSW, 2066, Australia

1.2. Manufacturer

CASA SYSTEMS, INC.

100 Old River Road, Andover MA 01810 USA

1.3. Testing Facility

<input checked="" type="checkbox"/>	Test Site - MRT Suzhou Laboratory
	Laboratory Location (Suzhou - Wuzhong) D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China
	Laboratory Location (Suzhou - SIP) 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China
	Laboratory Accreditations
	A2LA: 3628.01 CNAS: L10551 FCC: CN1166 ISED: CN0001 VCCI: <input type="checkbox"/> R-20025 <input type="checkbox"/> G-20034 <input type="checkbox"/> C-20020 <input type="checkbox"/> T-20020 <input type="checkbox"/> R-20141 <input type="checkbox"/> G-20134 <input type="checkbox"/> C-20103 <input type="checkbox"/> T-20104
<input type="checkbox"/>	Test Site - MRT Shenzhen Laboratory
	Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China
	Laboratory Accreditations
	A2LA: 3628.02 CNAS: L10551 FCC: CN1284 ISED: CN0105
<input type="checkbox"/>	Test Site - MRT Taiwan Laboratory
	Laboratory Location (Taiwan) No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
	Laboratory Accreditations
	TAF: L3261-190725 FCC: 291082, TW3261 ISED: TW3261

1.4. Product Information

Product Name	5G High Power mmWave Outdoor CPE
Model No.	CFW-2591
Brand Name	Casa Systems
IMEI	Conducted Measurement: 354796430000971 Radiated Measurement: 35479630001250
E-UTRA Band	Band 4, 5, 12, 17, 41, 48, 66
FR1 NR Band	n66
FR2 NR Band	n261
Bluetooth Specification	V4.1 BLE only
Antenna Information	Refer to section 1.6
Operating Temperature	-40 ~ 55 °C
Remark:	
1. The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.	

1.5. Radio Specification under Test

FDD T _x Frequency Range	Band 4: 1710 ~ 1755 MHz; Band 5: 824 ~ 849 MHz Band 12: 699 ~ 716 MHz; Band 17: 704 ~ 716 MHz Band 66: 1710 ~ 1780 MHz
FDD R _x Frequency Range	Band 4: 2110 ~ 2155 MHz; Band 5: 869 ~ 894 MHz Band 12: 729 ~ 746 MHz; Band 17: 734 ~ 746 MHz Band 66: 2110 ~ 2200 MHz
TDD T _x & R _x Frequency Range	Band 41: 2496 ~ 2690 MHz;
Modulation	UL & DL up to 256QAM

1.6. Description of Available Antennas

Technology	Frequency Range (MHz)	Antenna Type	Max Peak Gain (dBi)
LTE Band 4	1710 ~ 1755	Dipole	4.4
LTE Band 5	824 ~ 849		2.1
LTE Band 12	699 ~ 716		1.6
LTE Band 17	704 ~ 716		1.6
LTE Band 41	2496 ~ 2690		5.1
LTE Band 48	3550 ~ 3700		4.3
LTE/NR Band 66	1710 ~ 1780		4.4
Bluetooth	2402 ~ 2480		3.0

1.7. Test Methodology

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ANSI C63.26:2015
- FCC CFR 47 Part 22, Part 27
- FCC KDB 971168 D01 v03r01: Power Meas License Digital Systems
- FCC KDB 971168 D02 v02r01: Misc Rev Approv License Devices
- FCC KDB 412172 D01 v01r01: Determining ERP and EIRP

1.8. Device Capabilities

This device contains the following capabilities:

Working on LTE Band 4, 5, 12, 17, 41, 48, 66.

LTE Band 66 (1710 ~ 1780 MHz) overlaps the entire frequency range of LTE Band 4 (1710 ~ 1755 MHz). Therefore, test data provided in this report covers Band 4 as well as Band 66.

LTE Band 12 (699 ~ 716 MHz) overlaps the entire frequency range of LTE Band 17 (704 ~ 716 MHz). Therefore, test data provided in this report covers Band 4 as well as Band 66.

1.9. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

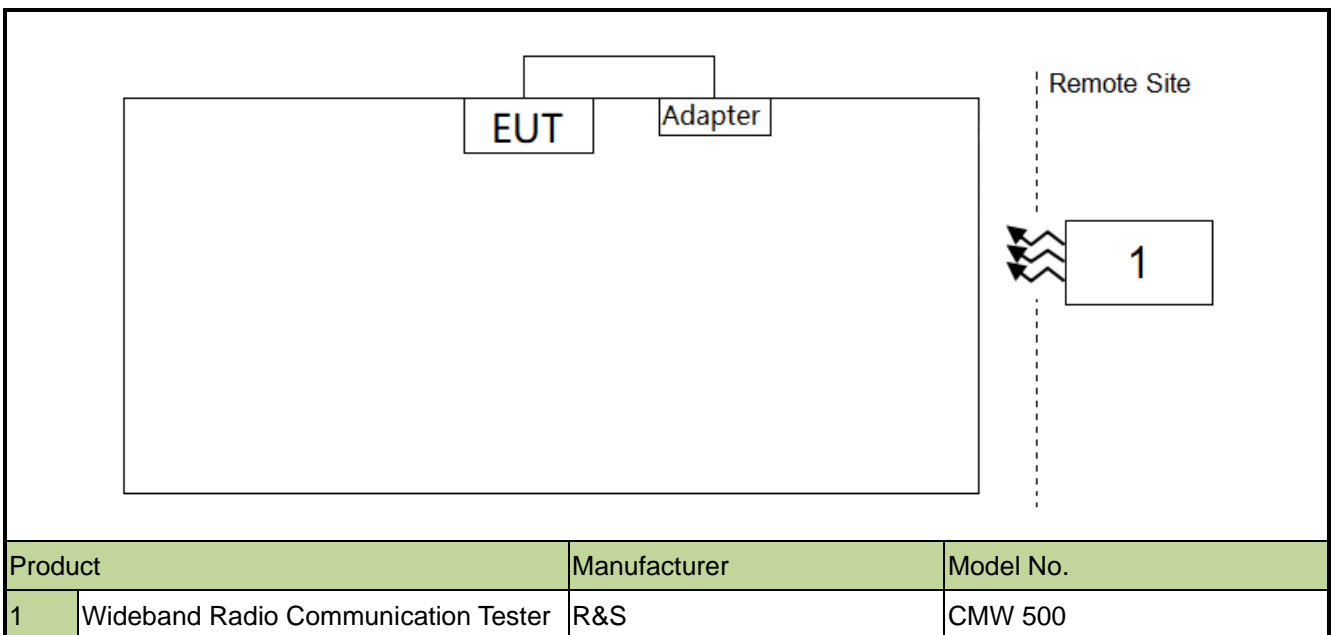
1.10. Maximum Power, Frequency Tolerance, and Emission Designator

LTE Band 4		QPSK			16QAM		
BW (MHz)	Feq. (MHz)	Designator	Tolerance (ppm)	Max Power (W)	Designator	Tolerance (ppm)	Max Power (W)
1.4	1710.7 ~ 1754.3	1M08G7D	-	0.4436	1M08W7D	-	0.4285
3	1711.5 ~ 1753.5	2M68G7D	-	0.4498	2M68W7D	-	0.4519
5	1712.5 ~ 1752.5	4M47G7D	-	0.4395	4M48W7D	-	0.4457
10	1715.0 ~ 1750.0	8M92G7D	-	0.4775	8M95W7D	-	0.4295
15	1717.5 ~ 1747.5	13M4G7D	-	0.4529	13M4W7D	-	0.4467
20	1720.0 ~ 1745.0	17M9G7D	0.0064	0.4571	17M9W7D	-	0.4406
LTE Band 4		64QAM			256QAM		
BW (MHz)	Feq. (MHz)	Designator	Tolerance (ppm)	Max Power (W)	Designator	Tolerance (ppm)	Max Power (W)
1.4	1710.7 ~ 1754.3	1M08W7D	-	0.3698	1M08W7D	-	0.2844
3	1711.5 ~ 1753.5	2M68W7D	-	0.3784	2M69W7D	-	0.2917
5	1712.5 ~ 1752.5	4M47W7D	-	0.3855	4M47W7D	-	0.2979
10	1715.0 ~ 1750.0	8M95W7D	-	0.3819	8M93W7D	-	0.2992
15	1717.5 ~ 1747.5	13M4W7D	-	0.3041	13M4W7D	-	0.1514
20	1720.0 ~ 1745.0	17M9W7D	-	0.3855	17M9W7D	-	0.3027
LTE Band 66		QPSK			16QAM		
BW (MHz)	Feq. (MHz)	Designator	Tolerance (ppm)	Max Power (W)	Designator	Tolerance (ppm)	Max Power (W)
1.4	1710.7 ~ 1779.3	1M08G7D	-	0.4436	1M08W7D	-	0.4285
3	1711.5 ~ 1778.5	2M68G7D	-	0.4498	2M68W7D	-	0.4519
5	1712.5 ~ 1777.5	4M47G7D	-	0.4395	4M48W7D	-	0.4457
10	1715.0 ~ 1775.0	8M92G7D	-	0.4775	8M95W7D	-	0.4295
15	1717.5 ~ 1772.5	13M4G7D	-	0.4529	13M4W7D	-	0.4467
20	1720.0 ~ 1770.0	17M9G7D	0.0064	0.4571	17M9W7D	-	0.4406
LTE Band 66		64QAM			256QAM		
BW (MHz)	Feq. (MHz)	Designator	Tolerance (ppm)	Max Power (W)	Designator	Tolerance (ppm)	Max Power (W)
1.4	1710.7 ~ 1779.3	1M08W7D	-	0.3698	1M08W7D	-	0.2844
3	1711.5 ~ 1778.5	2M68W7D	-	0.3784	2M69W7D	-	0.2917
5	1712.5 ~ 1777.5	4M47W7D	-	0.3855	4M47W7D	-	0.2979
10	1715.0 ~ 1775.0	8M95W7D	-	0.3819	8M93W7D	-	0.2992
15	1717.5 ~ 1772.5	13M4W7D	-	0.3041	13M4W7D	-	0.1514
20	1720.0 ~ 1770.0	17M9W7D	-	0.3855	17M9W7D	-	0.3027

LTE Band 5		QPSK			16QAM		
BW (MHz)	Feq. (MHz)	Designator	Tolerance (ppm)	Max Power (W)	Designator	Tolerance (ppm)	Max Power (W)
1.4	824.7 ~ 848.3	1M08G7D	-	0.1419	1M08W7D	-	0.1245
3	825.5 ~ 847.5	2M68G7D	-	0.1439	2M69W7D	-	0.1253
5	826.5 ~ 846.5	4M47G7D	-	0.1462	4M48W7D	-	0.1469
10	829.0 ~ 844.0	8M93G7D	-0.0051	0.1493	8M92W7D	-	0.1396
LTE Band 5		64QAM			256QAM		
BW (MHz)	Feq. (MHz)	Designator	Tolerance (ppm)	Max Power (W)	Designator	Tolerance (ppm)	Max Power (W)
1.4	824.7 ~ 848.3	1M08W7D	-	0.0935	1M08W7D	-	0.0479
3	825.5 ~ 847.5	2M68W7D	-	0.0971	2M69W7D	-	0.0481
5	826.5 ~ 846.5	4M47W7D	-	0.1219	4M46W7D	-	0.0925
10	829.0 ~ 844.0	8M93W7D	-	0.1191	8M93W7D	-	0.0957
LTE Band 12		QPSK			16QAM		
BW (MHz)	Feq. (MHz)	Designator	Tolerance (ppm)	Max Power (W)	Designator	Tolerance (ppm)	Max Power (W)
1.4	699.7 ~ 715.3	1M08G7D	-	0.1294	1M08W7D	-	0.1274
3	700.5 ~ 714.5	2M69G7D	-	0.1324	2M69W7D	-	0.1127
5	701.5 ~ 713.5	4M47G7D	-	0.1315	4M47W7D	-	0.1300
10	704.0 ~ 711.0	8M93G7D	-0.0079	0.1300	8M93W7D	-	0.1574
LTE Band 12		64QAM			256QAM		
BW (MHz)	Feq. (MHz)	Designator	Tolerance (ppm)	Max Power (W)	Designator	Tolerance (ppm)	Max Power (W)
1.4	699.7 ~ 715.3	1M08W7D	-	0.1122	1M08W7D	-	0.0861
3	700.5 ~ 714.5	2M68W7D	-	0.0881	2M68W7D	-	0.0447
5	701.5 ~ 713.5	4M47W7D	-	0.1054	4M47W7D	-	0.0444
10	704.0 ~ 711.0	8M94W7D	-	0.1349	8M94W7D	-	0.1062
LTE Band 17		QPSK			16QAM		
BW (MHz)	Feq. (MHz)	Designator	Tolerance (ppm)	Max Power (W)	Designator	Tolerance (ppm)	Max Power (W)
5	706.5 ~ 713.5	4M47G7D	-	0.1315	4M47W7D	-	0.1300
10	709.0 ~ 711.0	8M93G7D	-0.0079	0.1300	8M93W7D	-	0.1574
LTE Band 17		64QAM			256QAM		
BW (MHz)	Feq. (MHz)	Designator	Tolerance (ppm)	Max Power (W)	Designator	Tolerance (ppm)	Max Power (W)
5	706.5 ~ 713.5	4M47W7D	-	0.1054	4M47W7D	-	0.0444
10	709.0 ~ 711.0	8M94W7D	-	0.1349	8M94W7D	-	0.1062

LTE Band 41		QPSK			16QAM		
BW (MHz)	Feq. (MHz)	Designator	Tolerance (ppm)	Max Power (W)	Designator	Tolerance (ppm)	Max Power (W)
5	2498.5 ~ 2687.5	4M48G7D	-	0.6252	4M47W7D	-	0.6223
10	2501.0 ~ 2685.0	8M95G7D	-	0.6266	8M96W7D	-	0.5433
15	2503.5 ~ 2682.5	13M4G7D	-	0.6166	13M4W7D	-	0.6012
20	2506.0 ~ 2680.0	17M9G7D	-0.0063	0.6194	17M9W7D	-	0.6067
LTE Band 41		64QAM			256QAM		
BW (MHz)	Feq. (MHz)	Designator	Tolerance (ppm)	Max Power (W)	Designator	Tolerance (ppm)	Max Power (W)
5	2498.5 ~ 2687.5	4M48W7D	-	0.5176	4M48W7D	-	0.2046
10	2501.0 ~ 2685.0	8M96W7D	-	0.4093	8M95W7D	-	0.2028
15	2503.5 ~ 2682.5	13M4W7D	-	0.3837	13M4W7D	-	0.2028
20	2506.0 ~ 2680.0	17M9W7D	-	0.5105	17M9W7D	-	0.2037

1.11. Configuration of Tested System



1.12. Test Environment Condition

Ambient Temperature	15 ~ 35°C
Relative Humidity	20% ~ 75%RH

2. TEST EQUIPMENT CALIBRATION DATE

Radiated Emission (WZ- AC1)

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2022/01/04
Wideband Radio Communication Tester	R&S	CMW 500	MRTSUE06243	1 year	2022/10/10
PXA Signal Analyzer	Keysight	9030B	MRTSUE06395	1 year	2022/08/08
Loop Antenna	Schwarzbeck	FMZB 1519	MRTSUE06025	1 year	2022/10/28
Bilog Period Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2022/08/05
Broad Band Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06023	1 year	2022/09/16
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06597	1 year	2021/12/14
Microwave System Amplifier	Agilent	83017A	MRTSUE06076	1 year	2022/11/14
Preamplifier	Schwarzbeck	BBV 9721	MRTSUE06121	1 year	2022/06/09
Thermohygrometer	Testo	608-H1	MRTSUE06403	1 year	2022/06/28
Anechoic Chamber	TDK	Chamber-AC1	MRTSUE06212	1 year	2022/04/29

Radiated Emission (WZ-AC2)

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Spectrum Analyzer	Keysight	N9038A	MRTSUE06125	1 year	2022/06/24
Wideband Radio Communication Tester	R&S	CMW 500	MRTSUE06243	1 year	2022/10/10
Loop Antenna	Schwarzbeck	FMZB 1519	MRTSUE06025	1 year	2022/10/28
Bilog Period Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2022/05/24
Horn Antenna	Schwarzbeck	BBHA9120D	MRTSUE06171	1 year	2022/10/21
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06597	1 year	2021/12/14
Broad Band Coaxial Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2022/11/14
Preamplifier	Schwarzbeck	BBV 9721	MRTSUE06121	1 year	2022/06/09
Temperature/Humidity Meter	Minggao	ETH529	MRTSUE06170	1 year	2021/12/15
Anechoic Chamber	RIKEN	Chamber-AC2	MRTSUE06213	1 year	2022/04/29

Conducted Test Equipment (WZ-SR6, WZ-TR3)

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EXA Signal Analyzer	Agilent	N9020A	MRTSUE06106	1 year	2022/04/13
EXA Signal Analyzer	Keysight	N9010B	MRTSUE06452	1 year	2022/07/10
Signal Analyzer	R&S	FSV40	MRTSUE06218	1 year	2022/04/13
Wideband Radio Communication Tester	R&S	CMW 500	MRTSUE06243	1 year	2022/10/10
Power Meter	Agilent	U2021XA	MRTSUE06030	1 year	2022/10/10
DC Power Supply	GWINSTEK	DPS-3303C	MRTSUE06064	N/A	N/A
True RMS Clamp Meter	Fluke	319	MRTSUE06080	1 year	2022/05/05
Directional Coupler	Agilent	87301D	MRTSUE06082	1 year	2022/03/24
Dual Directional Coupler	Agilent	7778D	MRTSUE06083	1 year	2022/03/24
Attenuator	MVE	6dB	MRTSUE06534	1 year	2021/12/12
Attenuator	MVE	10dB	MRTSUE06543	1 year	2021/12/12
Temperature & Humidity Chamber	BAOYT	BYH-150CL	MRTSUE06051	1 year	2022/10/10
Thermohygrometer	testo	608-H1	MRTSUE06401	1 year	2022/06/28

Software	Version	Function
EMI Software	V3	EMI Test Software

3. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Radiated Spurious Emissions
Measurement Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): Horizontal: 9kHz ~ 300MHz: 5.04dB 300MHz ~ 1GHz: 4.95dB 1GHz ~ 40GHz: 6.40dB Vertical: 9kHz ~ 300MHz: 5.24dB 300MHz ~ 1GHz: 6.03dB 1GHz ~ 40GHz: 6.40dB
Conducted Spurious Emissions
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.78dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 1.13dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.28%
Frequency Stability
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 76.2Hz

4. TEST RESULT

4.1. Summary

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
2.1049	Occupied Bandwidth	N/A	Conducted	Pass	Section 4.2
2.1055, 22.355 27.54	Frequency Stability	< 2.5 ppm		Pass	Section 4.3
22.913(a)(5)	Equivalent Radiated Power (Band 5)	< 7 Watts Max ERP		Pass	Section 4.4
27.50(b)(9) 27.50(c)(9)	Equivalent Radiated Power (Band 12, 17)	< 30 Watts Max ERP			
27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 41)	< 2 Watts Max EIRP			
27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4/66)	< 1 Watts Max EIRP			
27.50(d)(5)	Peak to Average Ratio	< 13dB			
2.1051, 22.917(a) 27.53(g), (h)	Band Edge (Band 4/66, 5, 12/17)	< 43 + 10log ₁₀ (P _[Watts])		Pass	Section 4.5, 4.7
27.53(m)	Band Edge (Band 41)	27.53(m)(4)			
2.1051, 22.917(a) 27.53(g), (h)	Spurious Emission (Band 4/66, 5, 12/17)	< 43 + 10log ₁₀ (P _[Watts])			
2.1051, 27.53(m)	Spurious Emission (Band 41)	< 55 + 10log ₁₀ (P _[Watts])	Radiated	Pass	Section 4.8
2.1051, 22.917(a) 27.53(g), (h)	Spurious Emissions (Band 4/66, 5, 12, 17)	< 43 + 10log ₁₀ (P _[Watts])			
27.53(m)	Spurious Emissions (Band 41)	27.53(m)(4)			

Notes:

- The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- All supported modulation types were evaluated. The worst-case emission of modulation was selected. Therefore, the Frequency Stability, Channel Band Edge, Conducted Spurious Emission, Radiated Spurious Emission were presented the worst-case in the test report.

4.2. Occupied Bandwidth

4.2.1. Test Limit

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured.

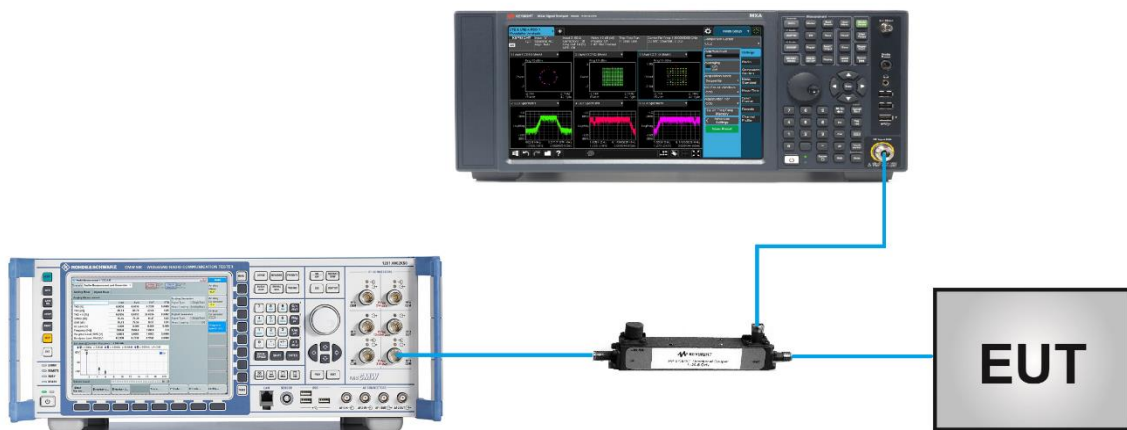
4.2.2. Test Procedure

ANSI C63.26-2015 - Section 5.4

4.2.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency
2. RBW = The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. Allow the trace to stabilize
8. Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

4.2.4. Test Setup



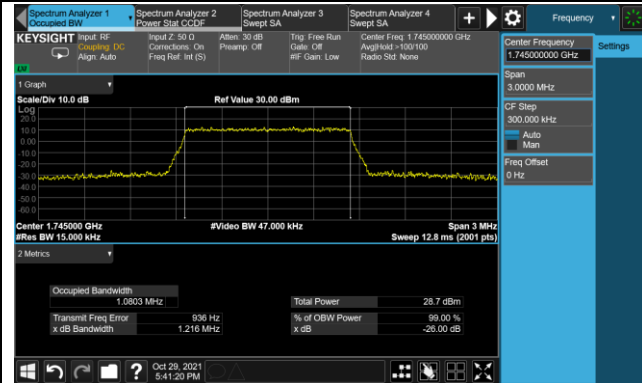
4.2.5. Test Result

Product	5G High Power mmWave Outdoor CPE	Test Site	WZ-SR6
Test Engineer	Caitlin Chen	Test Date	2021/10/29
Test Band	Band 4/66		

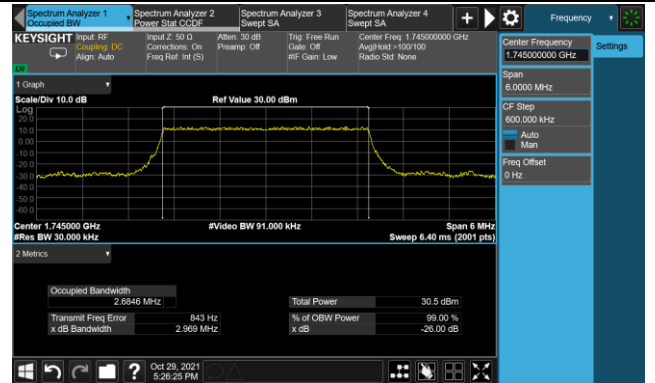
Channel	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
QPSK			
20300	1745.0	1.4	1.08
		3	2.68
		5	4.47
		10	8.92
		15	13.41
		20	17.86
16QAM			
20300	1745.0	1.4	1.08
		3	2.68
		5	4.48
		10	8.95
		15	13.42
		20	17.88
64QAM			
20300	1745.0	1.4	1.08
		3	2.68
		5	4.47
		10	8.95
		15	13.42
		20	17.87
256QAM			
20300	1745.0	1.4	1.08
		3	2.69
		5	4.47
		10	8.93
		15	13.42
		20	17.86

99% Bandwidth - QPSK

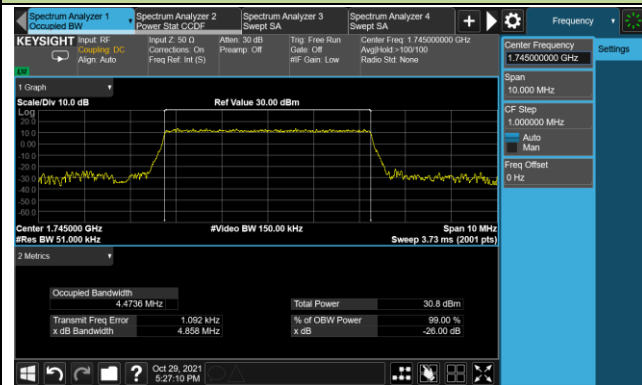
1.4MHz Channel Bandwidth



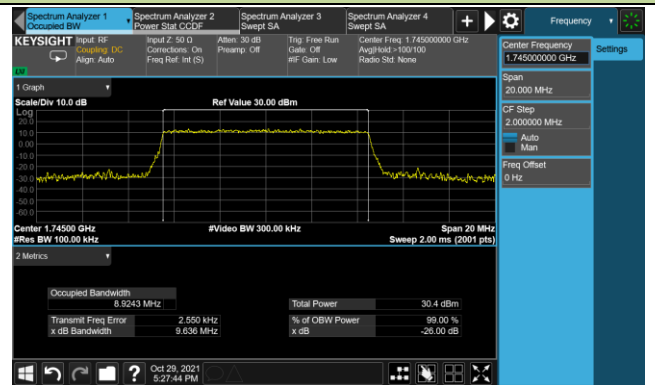
3MHz Channel Bandwidth



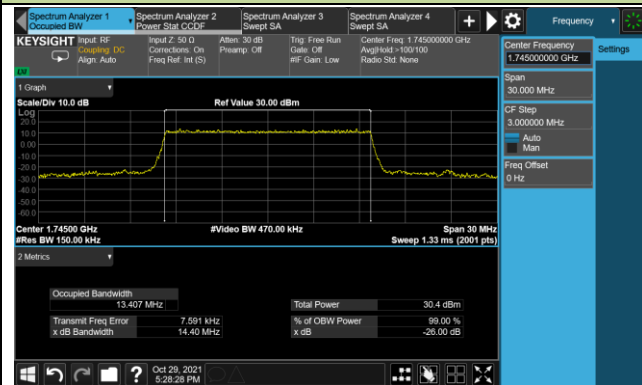
5MHz Channel Bandwidth



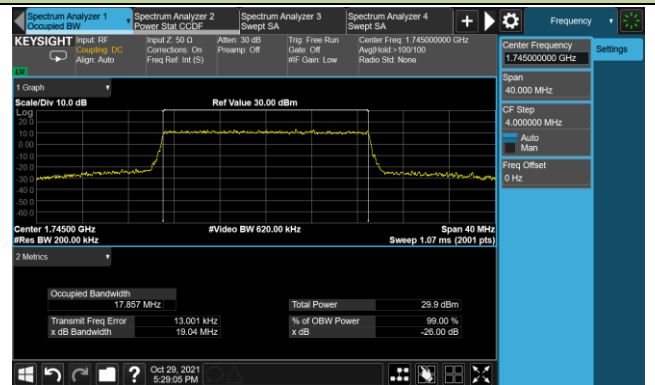
10MHz Channel Bandwidth



15MHz Channel Bandwidth

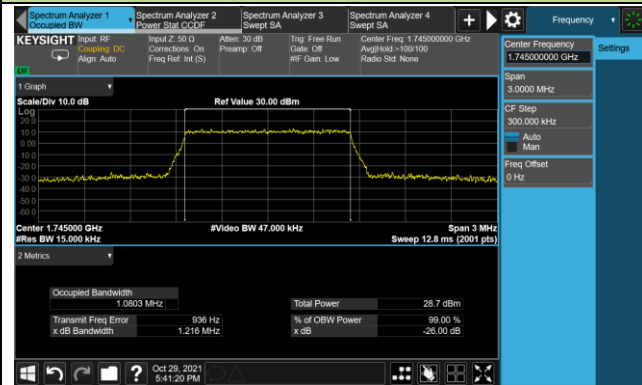


20MHz Channel Bandwidth



99% Bandwidth - 16QAM

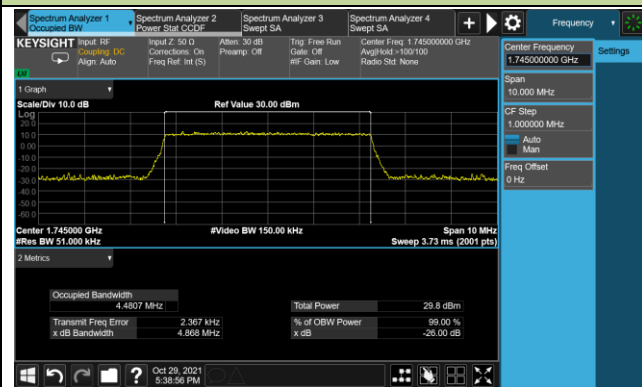
1.4MHz Channel Bandwidth



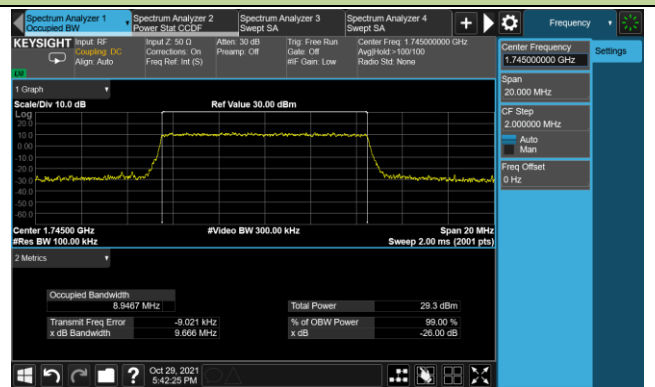
3MHz Channel Bandwidth



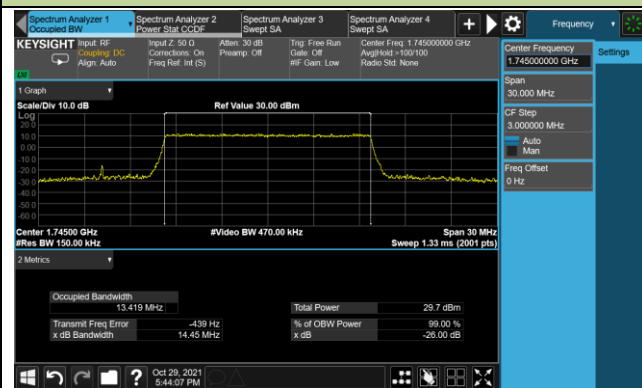
5MHz Channel Bandwidth



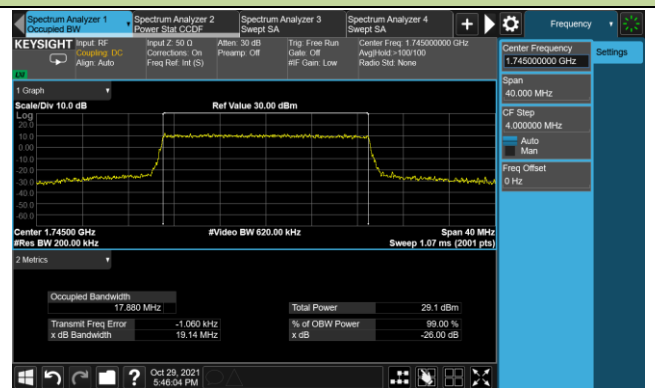
10MHz Channel Bandwidth



15MHz Channel Bandwidth

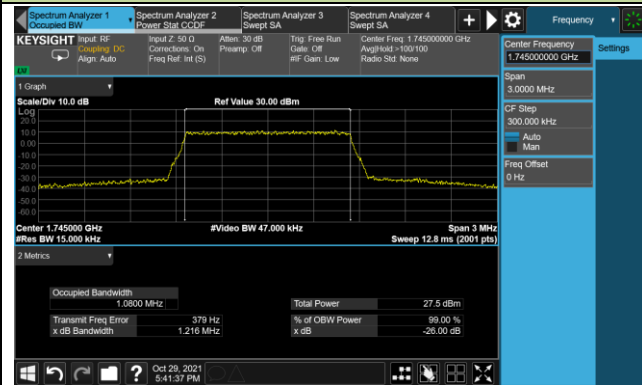


20MHz Channel Bandwidth

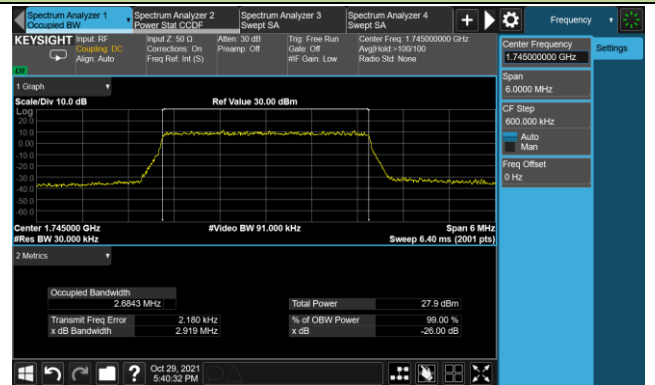


99% Bandwidth - 64QAM

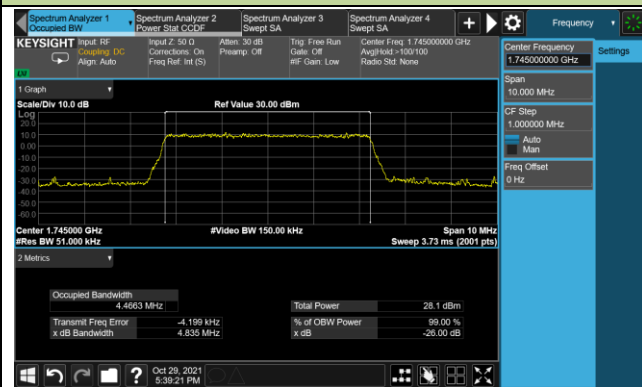
1.4MHz Channel Bandwidth



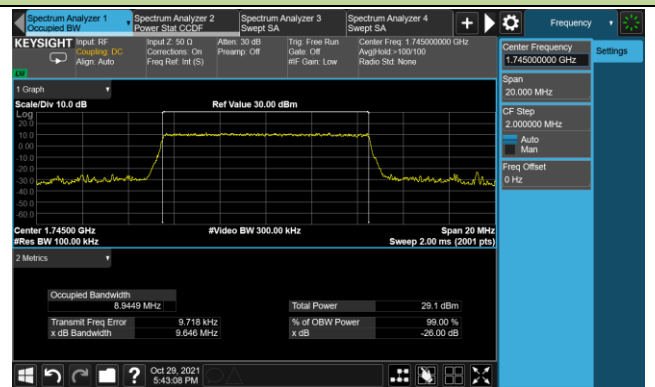
3MHz Channel Bandwidth



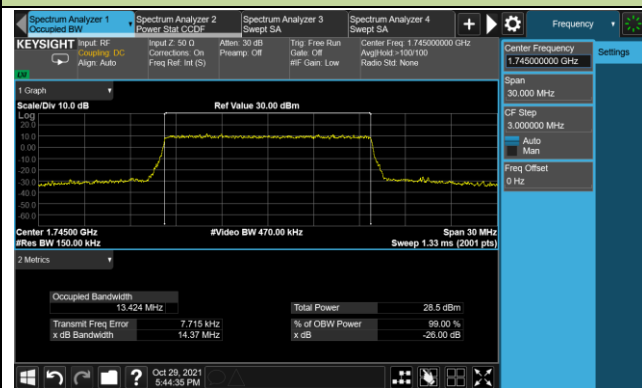
5MHz Channel Bandwidth



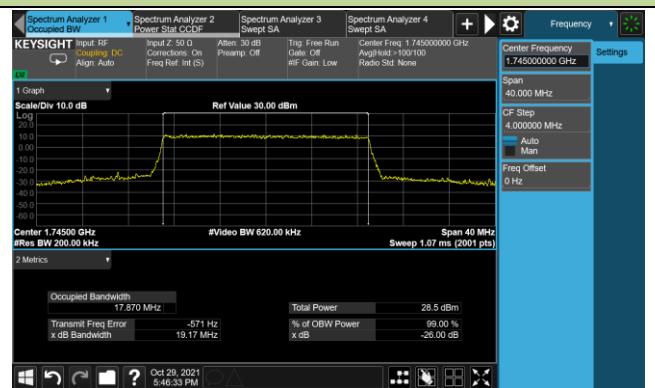
10MHz Channel Bandwidth



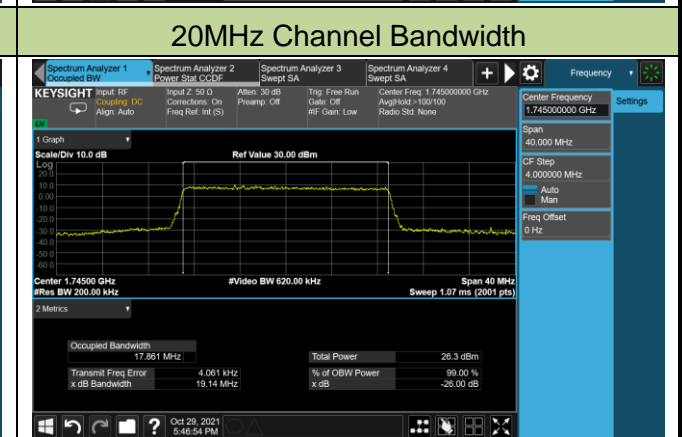
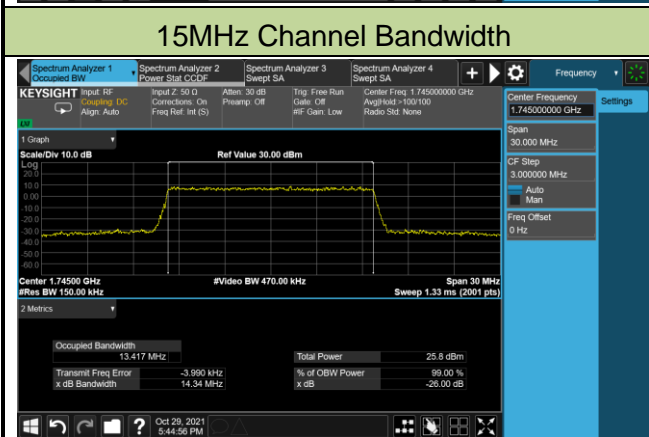
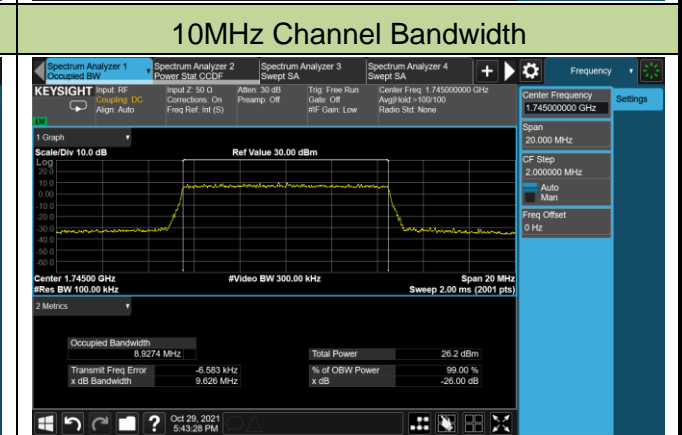
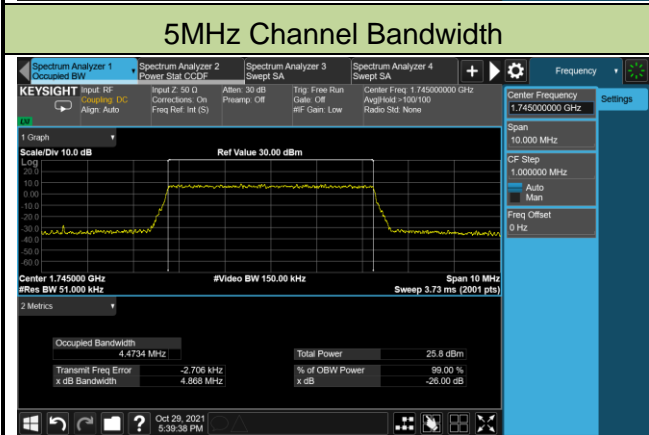
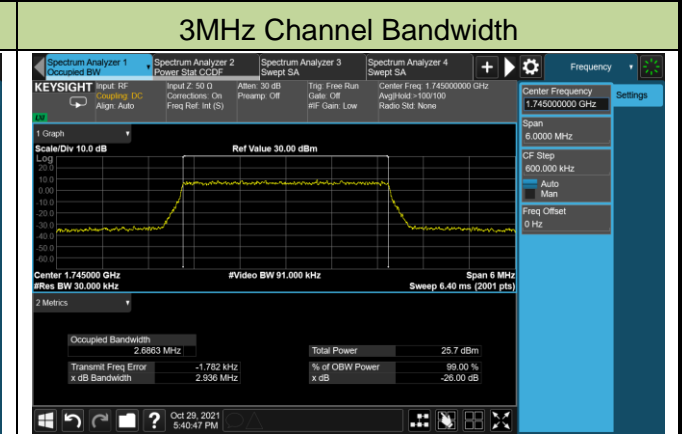
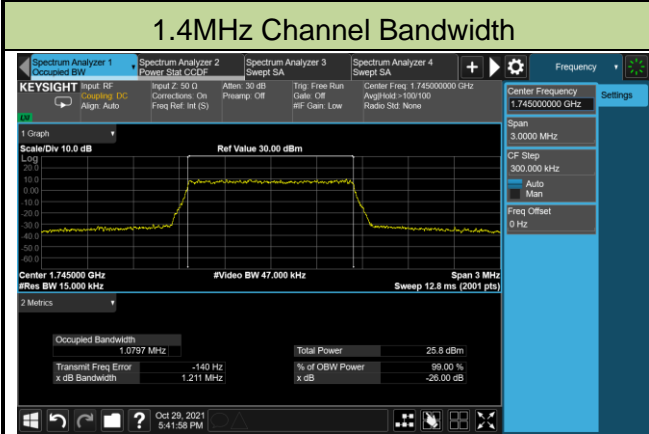
15MHz Channel Bandwidth



20MHz Channel Bandwidth



99% Bandwidth - 256QAM

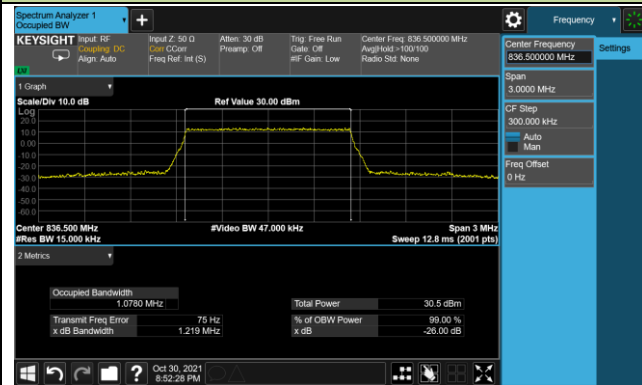


Product	5G High Power mmWave Outdoor CPE	Test Site	WZ-SR6
Test Engineer	Caitlin Chen	Test Date	2021/10/30
Test Band	LTE Band 5		

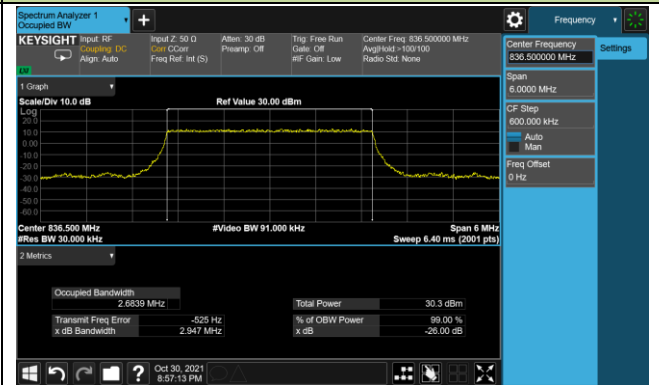
Channel	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
QPSK			
26915	836.5	1.4	1.08
		3	2.68
		5	4.47
		10	8.93
16QAM			
26915	836.5	1.4	1.08
		3	2.69
		5	4.48
		10	8.92
64QAM			
26915	836.5	1.4	1.08
		3	2.68
		5	4.47
		10	8.93
256QAM			
26915	836.5	1.4	1.08
		3	2.69
		5	4.46
		10	8.93

99% Bandwidth - QPSK

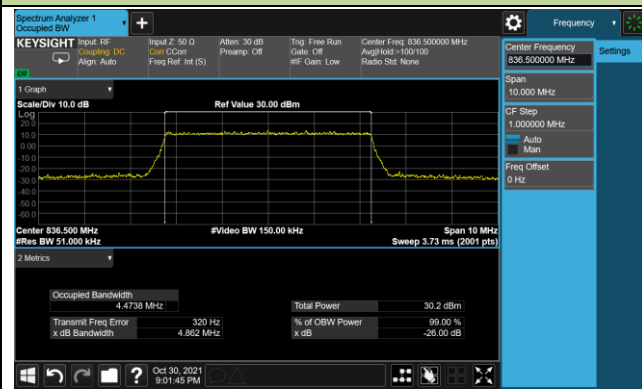
1.4MHz Channel Bandwidth



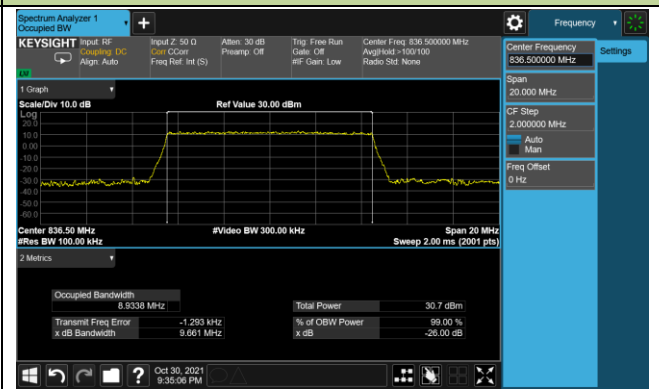
3MHz Channel Bandwidth



5MHz Channel Bandwidth

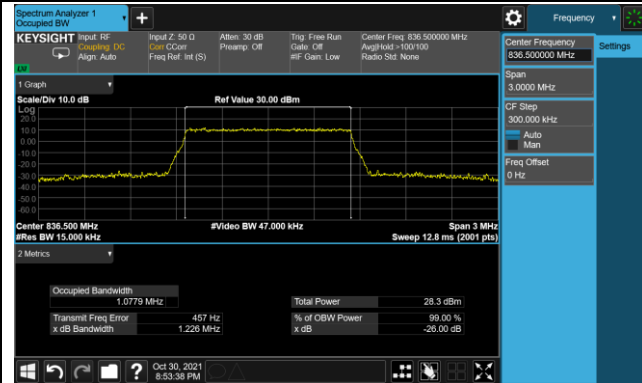


10MHz Channel Bandwidth

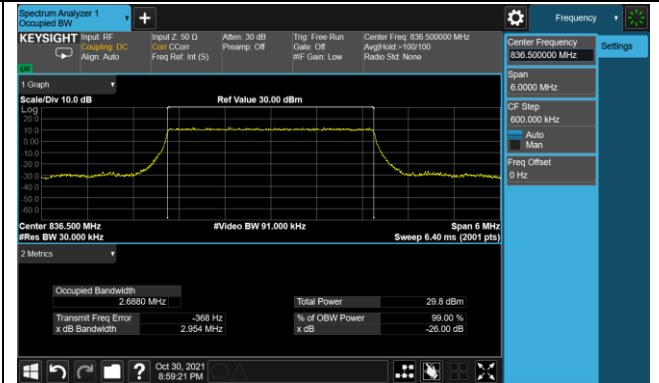


99% Bandwidth -16QAM

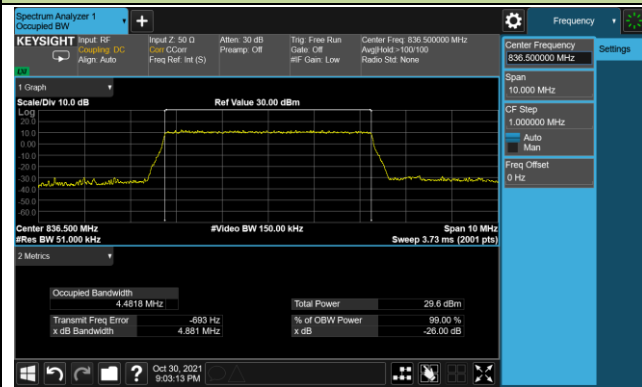
1.4MHz Channel Bandwidth



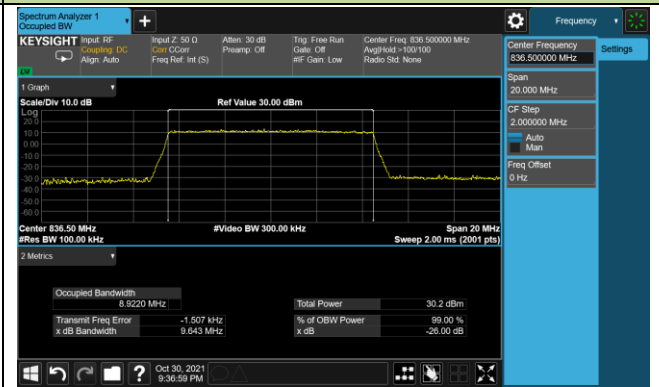
3MHz Channel Bandwidth



5MHz Channel Bandwidth

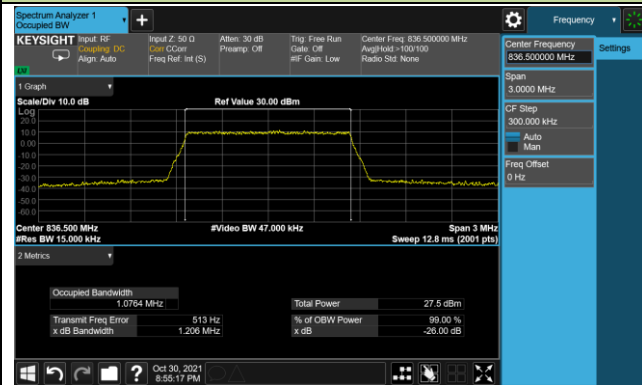


10MHz Channel Bandwidth

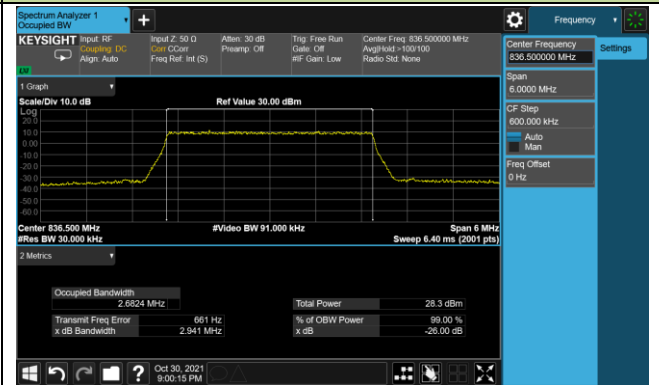


99% Bandwidth - 64QAM

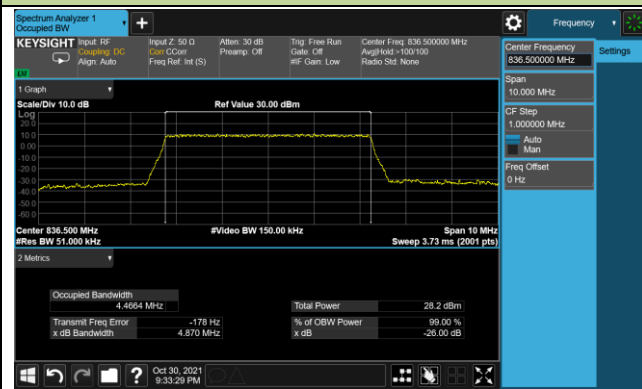
1.4MHz Channel Bandwidth



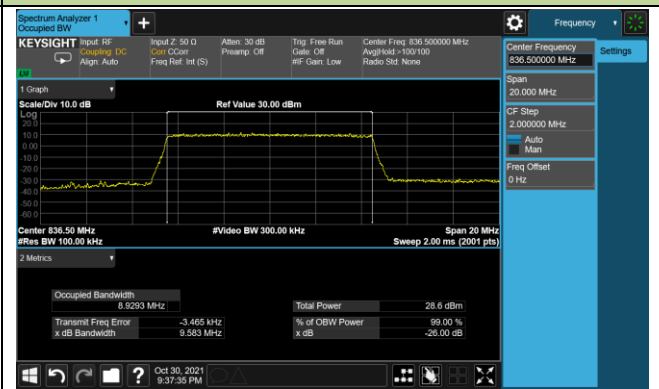
3MHz Channel Bandwidth

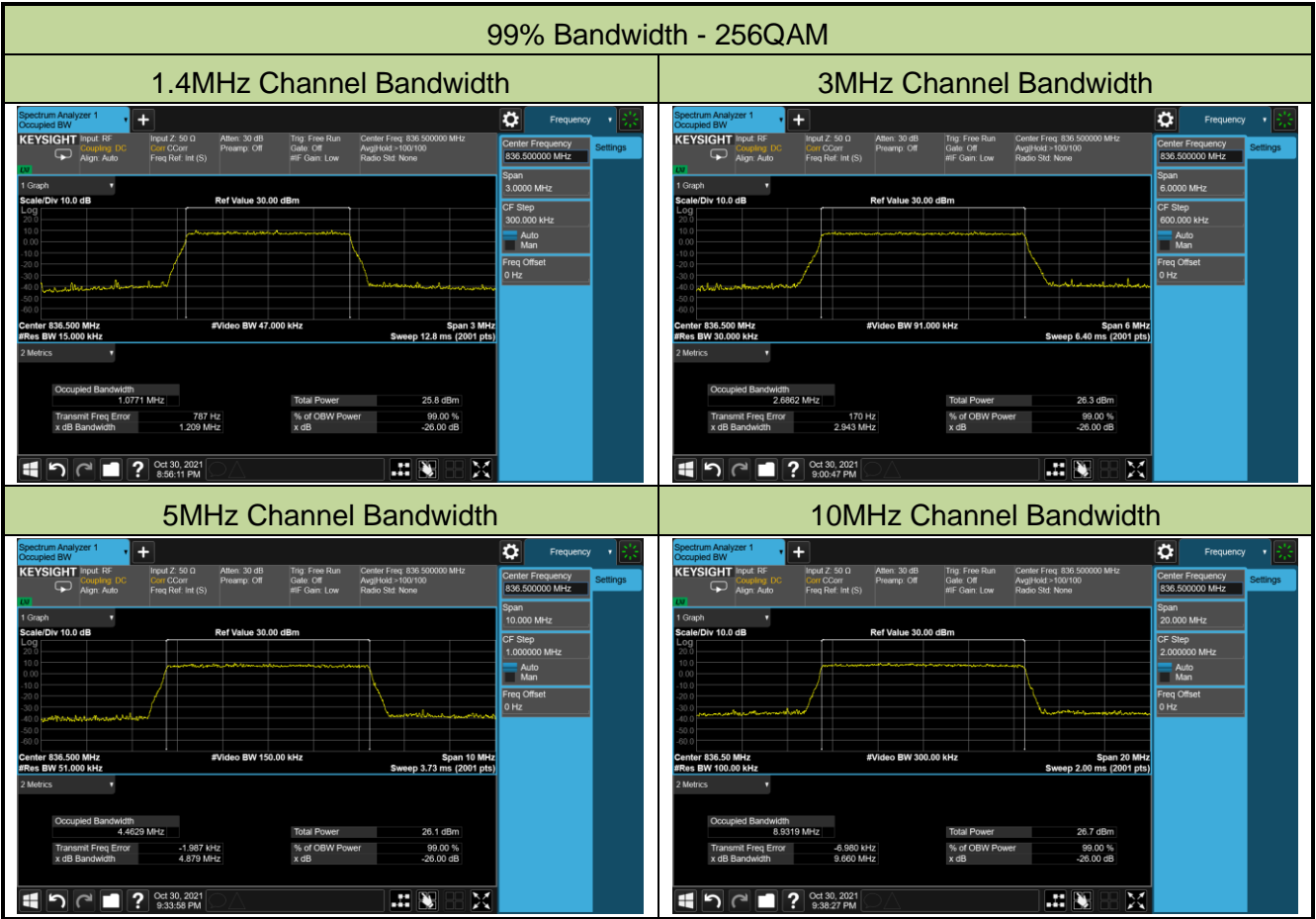


5MHz Channel Bandwidth



10MHz Channel Bandwidth



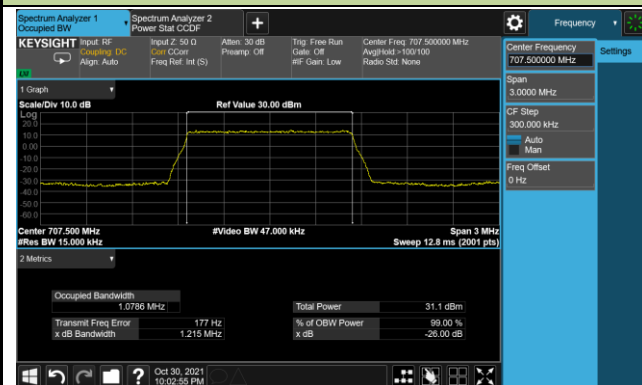


Product	5G High Power mmWave Outdoor CPE	Test Site	WZ-SR6
Test Engineer	Caitlin Chen	Test Date	2021/10/30
Test Band	LTE Band 12/17		

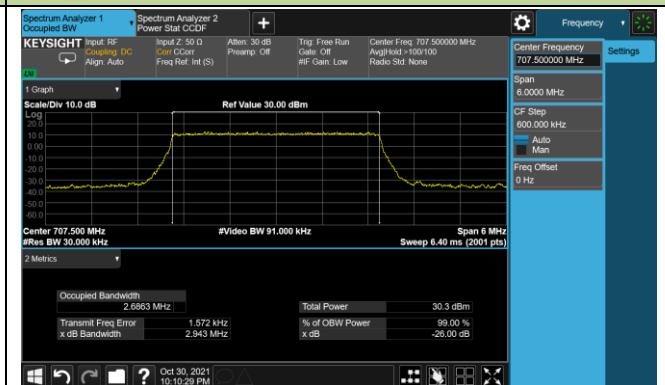
Channel	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
QPSK			
23095	707.5	1.4	1.08
		3	2.69
		5	4.47
		10	8.93
16QAM			
23095	707.5	1.4	1.08
		3	2.69
		5	4.47
		10	8.93
64QAM			
23095	707.5	1.4	1.08
		3	2.68
		5	4.47
		10	8.94
256QAM			
23095	707.5	1.4	1.08
		3	2.68
		5	4.47
		10	8.94

99% Bandwidth - QPSK

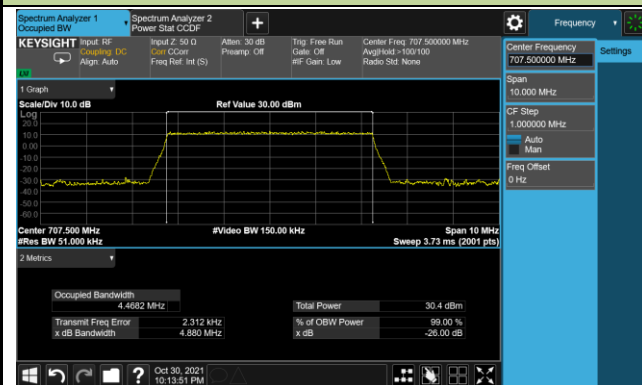
1.4MHz Channel Bandwidth



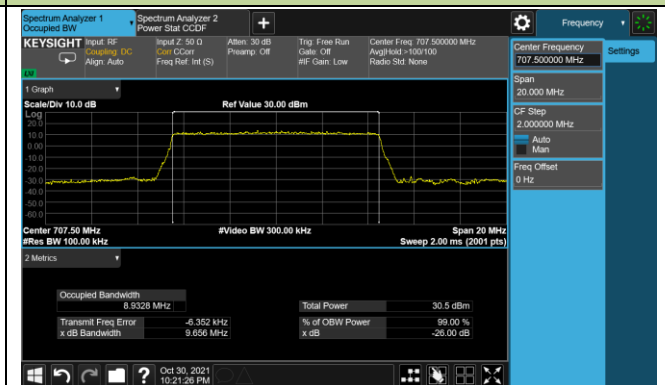
3MHz Channel Bandwidth



5MHz Channel Bandwidth

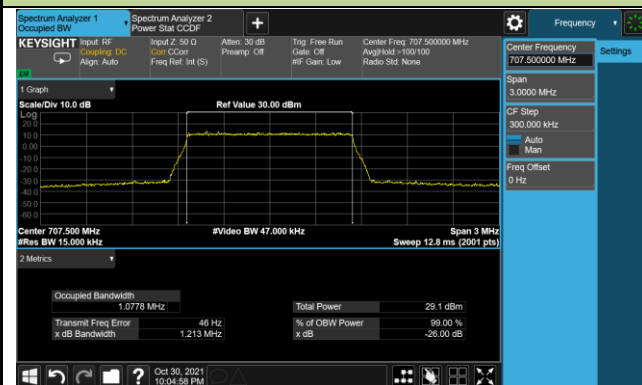


10MHz Channel Bandwidth

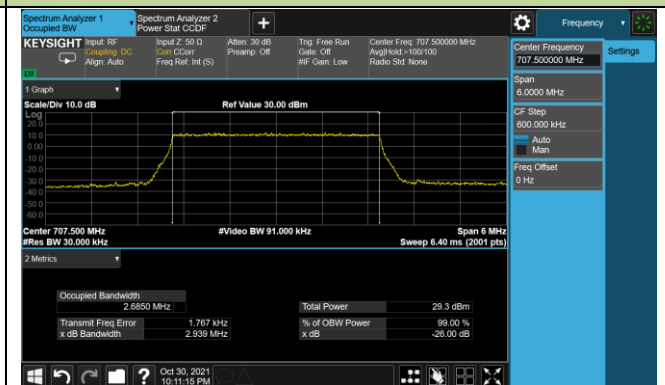


99% Bandwidth - 16QAM

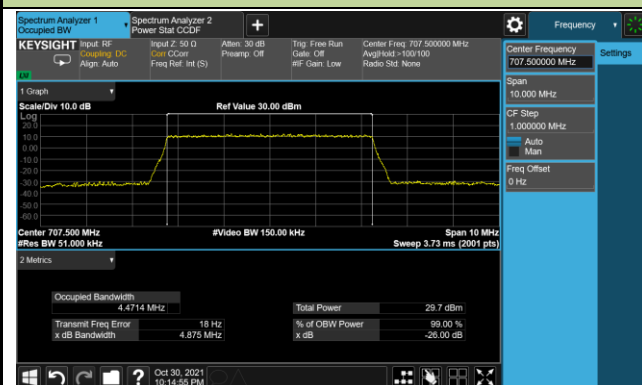
1.4MHz Channel Bandwidth



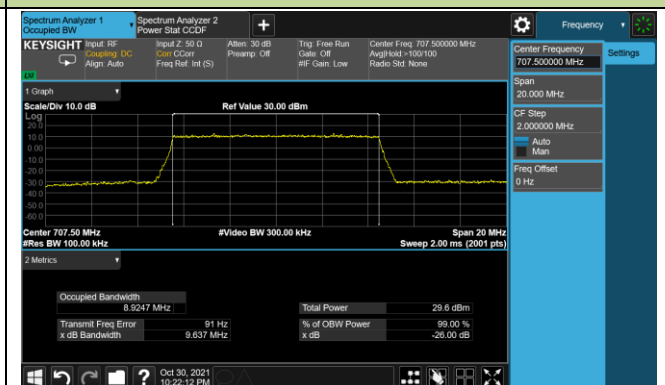
3MHz Channel Bandwidth



5MHz Channel Bandwidth

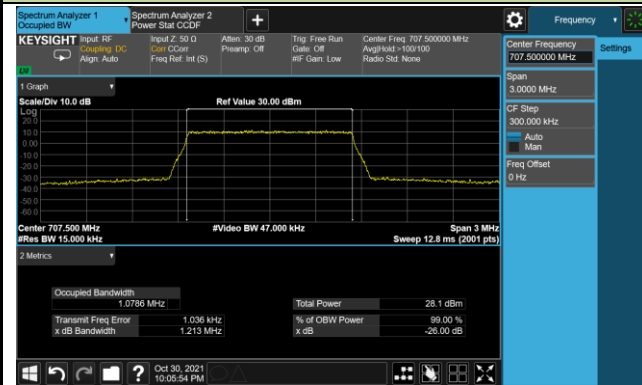


10MHz Channel Bandwidth

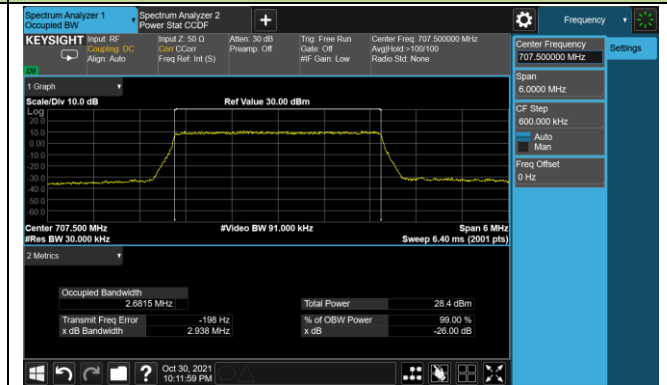


99% Bandwidth - 64QAM

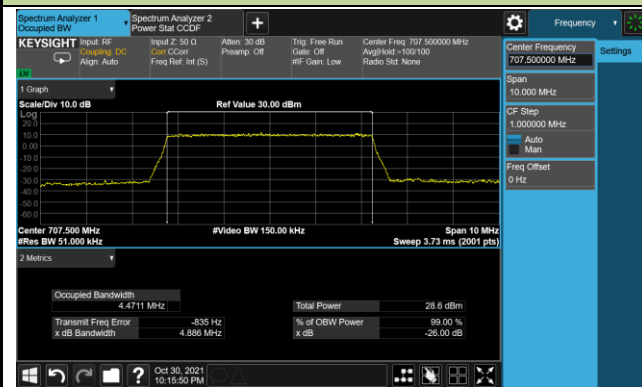
1.4MHz Channel Bandwidth



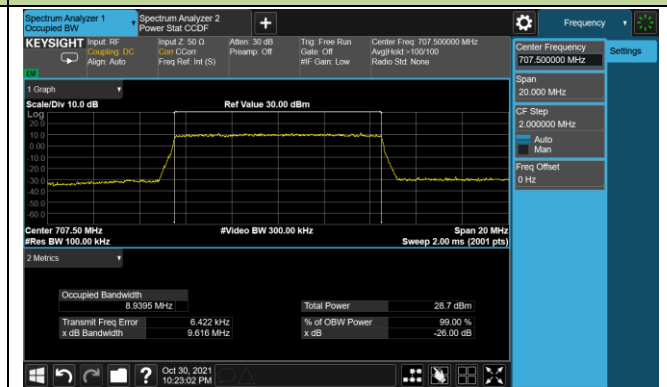
3MHz Channel Bandwidth



5MHz Channel Bandwidth

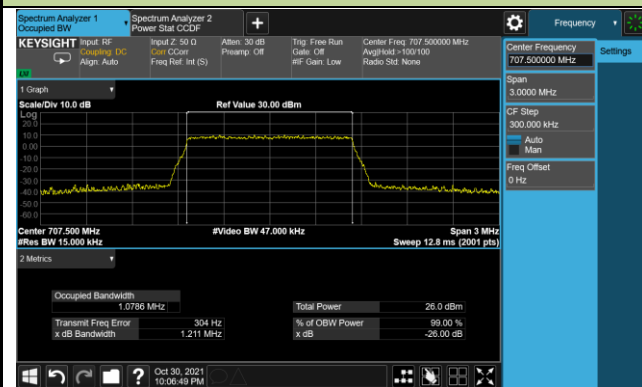


10MHz Channel Bandwidth

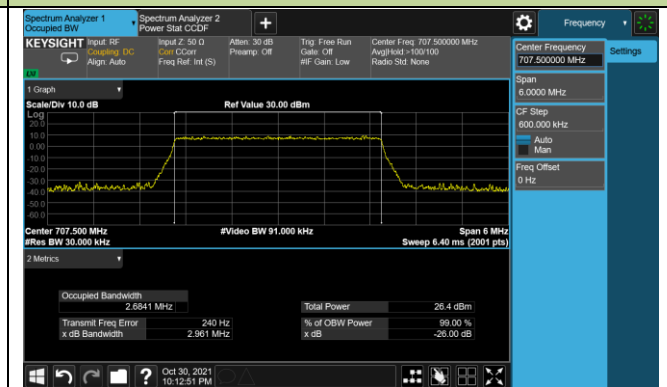


99% Bandwidth - 256QAM

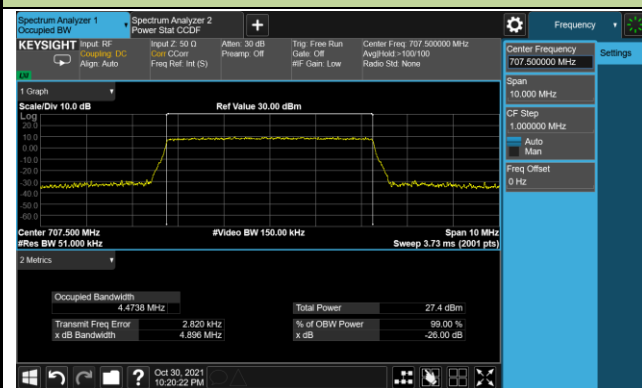
1.4MHz Channel Bandwidth



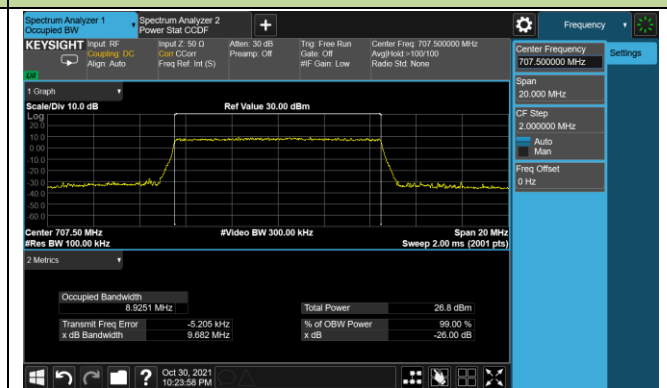
3MHz Channel Bandwidth



5MHz Channel Bandwidth



10MHz Channel Bandwidth

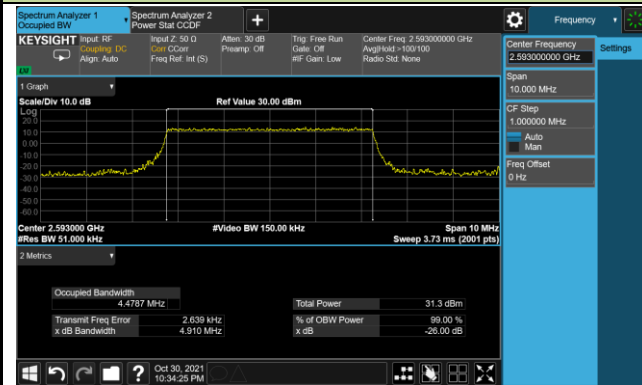


Product	5G High Power mmWave Outdoor CPE	Test Site	WZ-SR6
Test Engineer	Caitlin Chen	Test Date	2021/10/30
Test Band	LTE Band 41		

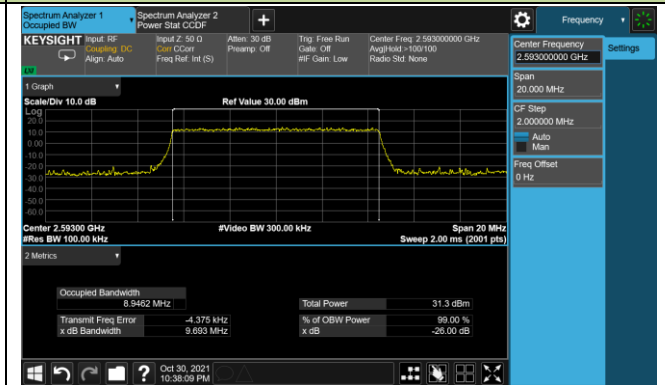
Channel	Frequency (MHz)	Bandwidth (MHz)	99% Bandwidth (MHz)
QPSK			
37980	2593.0	5	4.48
		10	8.95
		15	13.41
		20	17.87
16QAM			
37980	2593.0	5	4.47
		10	8.96
		15	13.40
		20	17.87
64QAM			
37980	2593.0	5	4.48
		10	8.96
		15	13.41
		20	17.87
256QAM			
37980	2593.0	5	4.48
		10	8.95
		15	13.44
		20	17.85

99% Bandwidth - QPSK

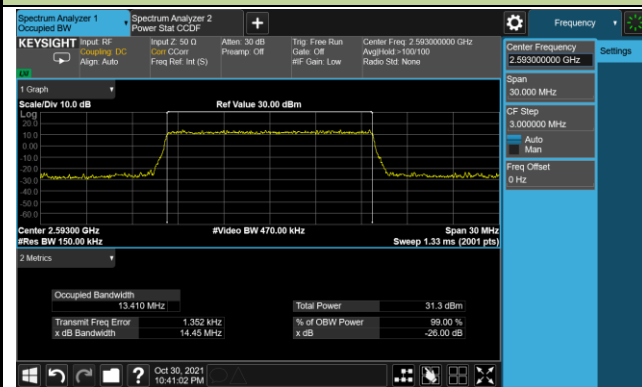
5MHz Channel Bandwidth



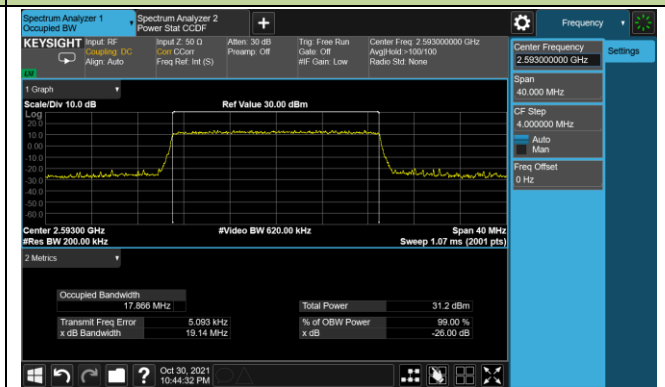
10MHz Channel Bandwidth



15MHz Channel Bandwidth

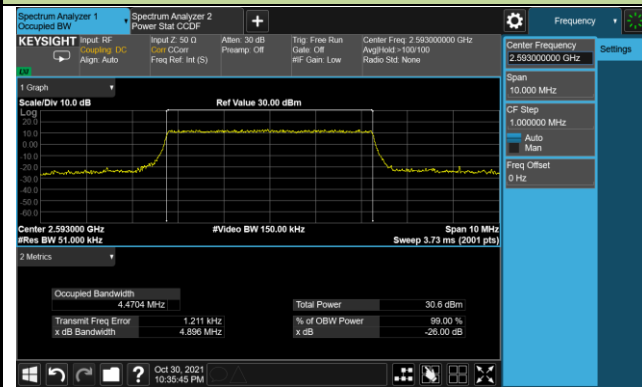


20MHz Channel Bandwidth

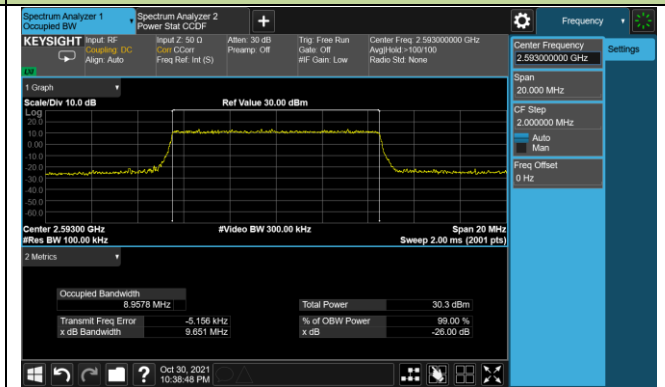


99% Bandwidth - 16QAM

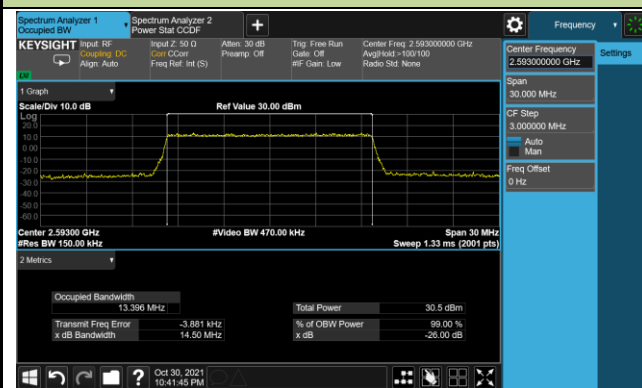
5MHz Channel Bandwidth



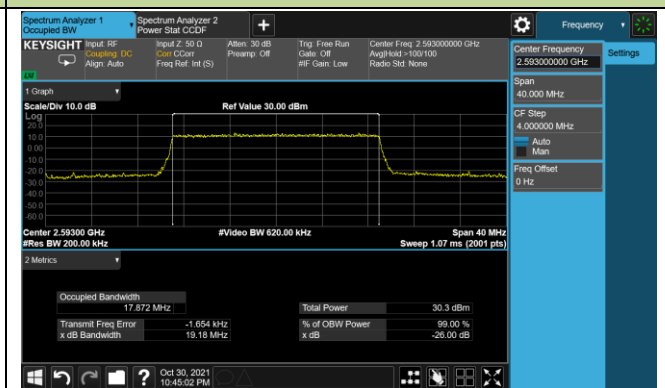
10MHz Channel Bandwidth



15MHz Channel Bandwidth

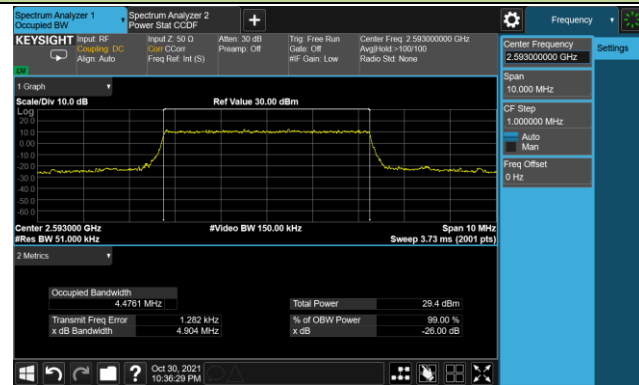


20MHz Channel Bandwidth

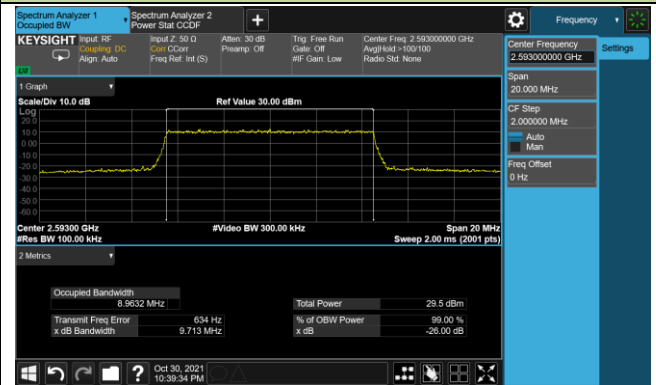


99% Bandwidth - 64QAM

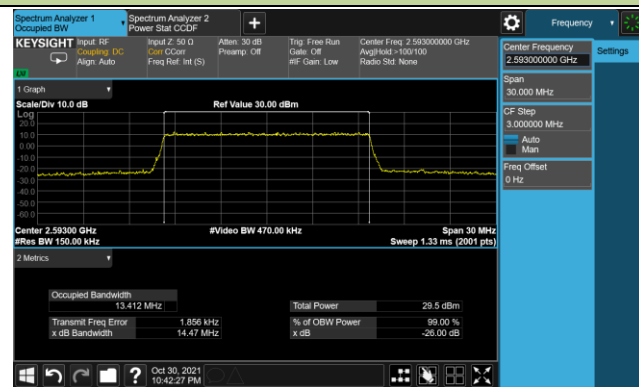
5MHz Channel Bandwidth



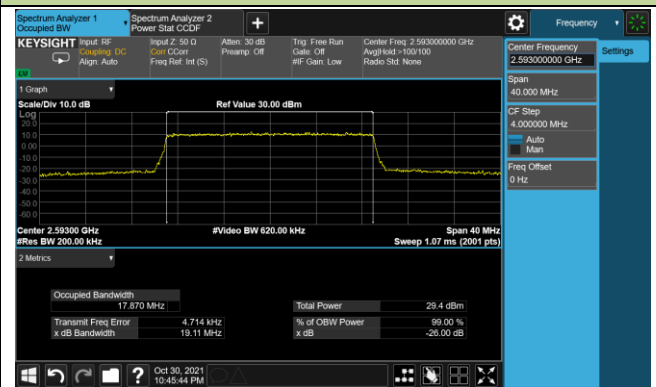
10MHz Channel Bandwidth



15MHz Channel Bandwidth

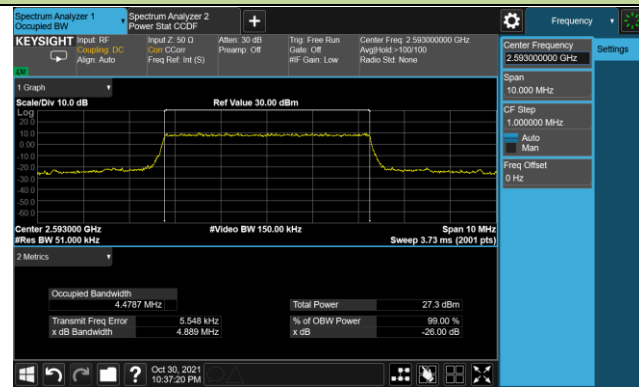


20MHz Channel Bandwidth

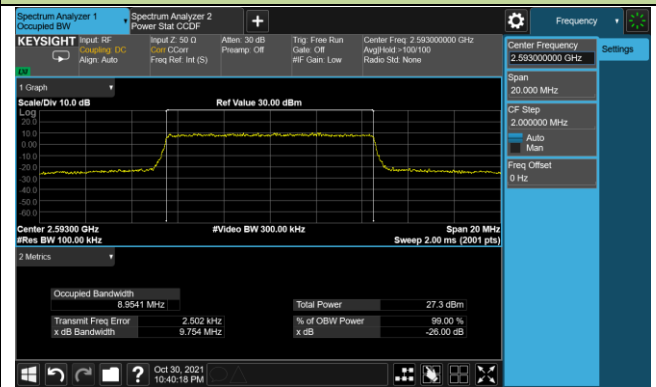


99% Bandwidth - 256QAM

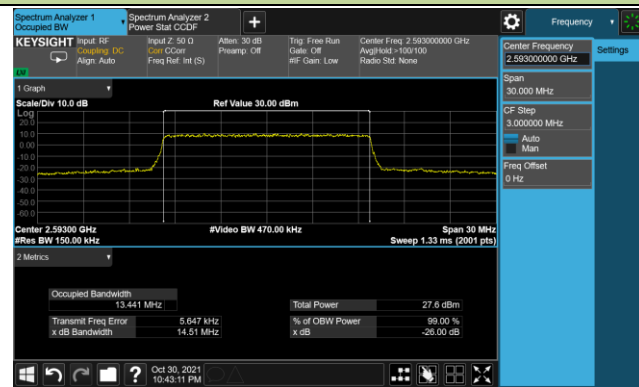
5MHz Channel Bandwidth



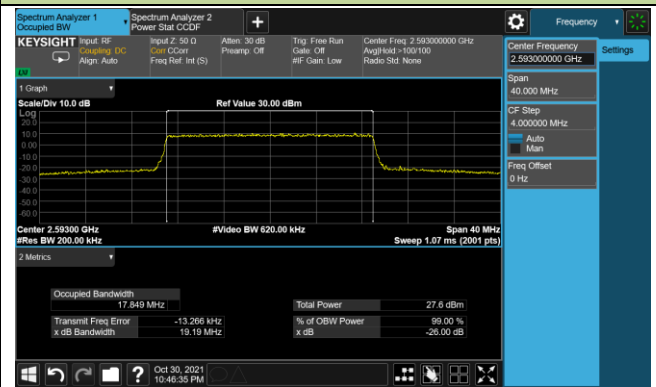
10MHz Channel Bandwidth



15MHz Channel Bandwidth



20MHz Channel Bandwidth



4.3. Frequency Stability Measurement

4.3.1. Test Limit

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

4.3.2. Test Procedures Used

ANSI C63.26-2015 - Section 5.6

4.3.3. Test Setting

Frequency Stability Under Temperature Variations:

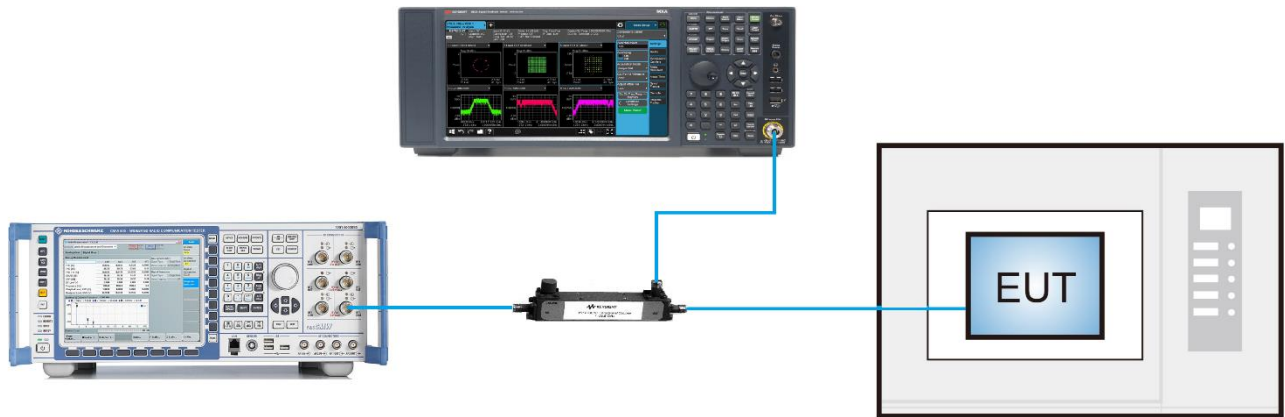
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

4.3.4. Test Setup



4.3.5. Test Result

Product	5G High Power mmWave Outdoor CPE	Test Site	WZ-TR3
Test Engineer	Caitlin Chen	Test Date	2021/11/03
Test Band	LTE Band 4/66		

Power (VDC)	Temp (°C)	Frequency Tolerance (ppm)
120	- 30	-0.0029
	- 20	-0.0047
	- 10	-0.0020
	0	0.0018
	+ 10	-0.0050
	+ 20	-0.0041
	+ 30	-0.0051
	+ 40	-0.0024
	+ 50	-0.0019
138	+ 20	-0.0033
102	+ 20	-0.0033

Product	5G High Power mmWave Outdoor CPE	Test Site	WZ-TR3
Test Engineer	Caitlin Chen	Test Date	2021/11/03
Test Band	LTE Band 5		

Power (VDC)	Temp (°C)	Frequency Tolerance (ppm)
120	- 30	0.0015
	- 20	-0.0040
	- 10	0.0023
	0	-0.0031
	+ 10	-0.0058
	+ 20	-0.0019
	+ 30	0.0045
	+ 40	0.0036
	+ 50	0.0054
138	+ 20	-0.0057
102	+ 20	0.0064

Product	5G High Power mmWave Outdoor CPE	Test Site	WZ-TR3
Test Engineer	Caitlin Chen	Test Date	2021/11/03
Test Band	LTE Band 12/17		

Power (VDC)	Temp (°C)	Frequency Tolerance (ppm)
120	- 30	-0.0059
	- 20	0.0014
	- 10	-0.0055
	0	-0.0027
	+ 10	0.0058
	+ 20	0.0058
	+ 30	-0.0047
	+ 40	0.0011
	+ 50	-0.0061
138	+ 20	0.0034
102	+ 20	-0.0079

Product	5G High Power mmWave Outdoor CPE	Test Site	WZ-TR3
Test Engineer	Caitlin Chen	Test Date	2021/11/03
Test Band	LTE Band 41		

Power (VDC)	Temp (°C)	Frequency Tolerance (ppm)
120	- 30	-0.0058
	- 20	0.0013
	- 10	-0.0040
	0	-0.0029
	+ 10	-0.0051
	+ 20	-0.0051
	+ 30	0.0022
	+ 40	-0.0060
	+ 50	-0.0032
138	+ 20	-0.0063
102	+ 20	-0.0041

4.4. Equivalent Isotropically Radiated Power Measurement

4.4.1. Test Limit

Band 5

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

Band 12, 17

Control stations and mobile stations transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 30 watts ERP.

Control and mobile stations in the 698-746 MHz band are limited to 30 watts ERP.

Band 41:

Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

Band 4/66:

Fixed, mobile stations operating in the 1710-1755 MHz band and mobile in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP.

4.4.2. Test Procedures Used

ANSI C63.26-2015 - Section 5.2

4.4.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation (1) as follows:

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

where

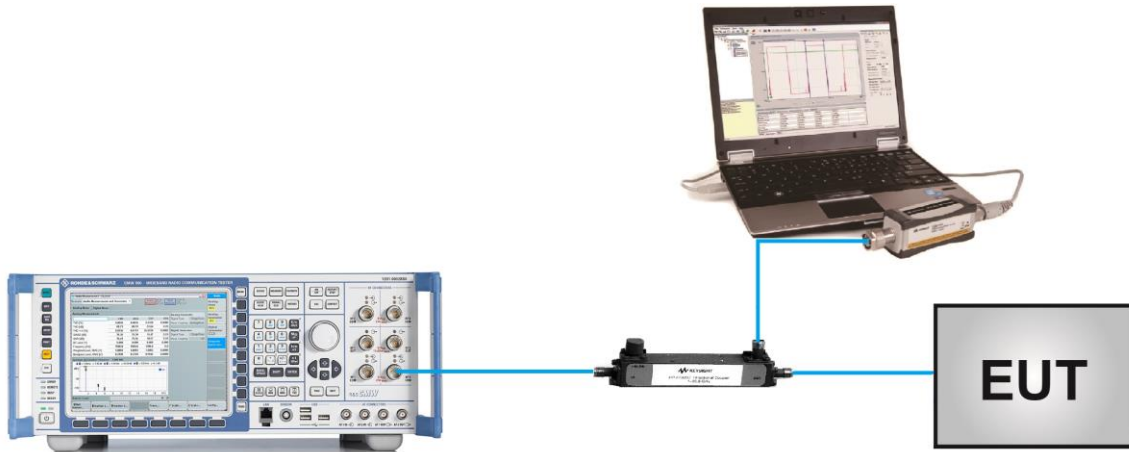
ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas} , e.g., dBm or dBW)

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)

$$\text{ERP} = \text{EIRP} - 2.15$$

4.4.4. Test Setup



4.4.5. Test Result

Product	5G High Power mmWave Outdoor CPE	Test Site	WZ-SR6
Test Engineer	Caitlin Chen	Test Date	2021/10/27 ~ 2021/11/03
Test Band	LTE Band 4/66		

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
QPSK							
131979	1710.70	1.4	1	0	21.87	26.27	< 30.00
132322	1745.00				22.07	26.47	< 30.00
132665	1779.30				21.88	26.28	< 30.00
131979	1710.70	1.4	1	2	21.88	26.28	< 30.00
132322	1745.00				21.96	26.36	< 30.00
132665	1779.30				21.98	26.38	< 30.00
131979	1710.70	1.4	1	6	21.91	26.31	< 30.00
132322	1745.00				21.99	26.39	< 30.00
132665	1779.30				21.85	26.25	< 30.00
131979	1710.70	1.4	6	0	20.92	25.32	< 30.00
132322	1745.00				20.08	24.48	< 30.00
132665	1779.30				20.15	24.55	< 30.00
131987	1711.50	3	1	0	21.94	26.34	< 30.00
132322	1745.00				21.98	26.38	< 30.00
132657	1778.50				22.11	26.51	< 30.00
131987	1711.50	3	1	7	21.87	26.27	< 30.00
132322	1745.00				22.13	26.53	< 30.00
132657	1778.50				22.05	26.45	< 30.00
131987	1711.50	3	1	14	21.95	26.35	< 30.00
132322	1745.00				22.02	26.42	< 30.00
132657	1778.50				21.99	26.39	< 30.00
131987	1711.50	3	15	0	20.05	24.45	< 30.00
132322	1745.00				21.15	25.55	< 30.00
132657	1778.50				20.11	24.51	< 30.00

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

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
QPSK							
131997	1712.50	5	1	0	21.96	26.36	< 30.00
132322	1745.00				22.00	26.40	< 30.00
132647	1777.50				22.00	26.40	< 30.00
131997	1712.50	5	1	12	21.97	26.37	< 30.00
132322	1745.00				22.00	26.40	< 30.00
132647	1777.50				21.96	26.36	< 30.00
131997	1712.50	5	1	24	21.91	26.31	< 30.00
132322	1745.00				22.03	26.43	< 30.00
132647	1777.50				21.92	26.32	< 30.00
131997	1712.50	5	25	0	21.07	25.47	< 30.00
132322	1745.00				21.11	25.51	< 30.00
132647	1777.50				21.10	25.50	< 30.00
132022	1715.00	10	1	0	21.93	26.33	< 30.00
132322	1745.00				22.39	26.79	< 30.00
132622	1775.00				22.07	26.47	< 30.00
132022	1715.00	10	1	24	21.87	26.27	< 30.00
132322	1745.00				22.03	26.43	< 30.00
132622	1775.00				22.01	26.41	< 30.00
132022	1715.00	10	1	49	21.79	26.19	< 30.00
132322	1745.00				21.90	26.30	< 30.00
132622	1775.00				21.99	26.39	< 30.00
132022	1715.00	10	50	0	21.02	25.42	< 30.00
132322	1745.00				20.11	24.51	< 30.00
132622	1775.00				20.07	24.47	< 30.00
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
QPSK							
132047	1717.50	15	1	0	21.89	26.29	< 30.00
132322	1745.00				22.03	26.43	< 30.00
132597	1772.50				22.03	26.43	< 30.00
132047	1717.50	15	1	37	21.82	26.22	< 30.00
132322	1745.00				22.01	26.41	< 30.00
132597	1772.50				22.07	26.47	< 30.00
132047	1717.50	15	1	74	21.65	26.05	< 30.00
132322	1745.00				22.02	26.42	< 30.00
132597	1772.50				22.16	26.56	< 30.00
132047	1717.50	15	75	0	20.96	25.36	< 30.00
132322	1745.00				21.15	25.55	< 30.00
132597	1772.50				21.11	25.51	< 30.00
132072	1720.00	20	1	0	22.04	26.44	< 30.00
132322	1745.00				22.12	26.52	< 30.00
132572	1770.00				22.04	26.44	< 30.00
132072	1720.00	20	1	49	21.97	26.37	< 30.00
132322	1745.00				22.07	26.47	< 30.00
132572	1770.00				22.17	26.57	< 30.00
132072	1720.00	20	1	99	21.98	26.38	< 30.00
132322	1745.00				22.20	26.60	< 30.00
132572	1770.00				22.10	26.50	< 30.00
132072	1720.00	20	100	0	21.05	25.45	< 30.00
132322	1745.00				21.13	25.53	< 30.00
132572	1770.00				21.16	25.56	< 30.00
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
16QAM							
131979	1710.70	1.4	1	0	21.84	26.24	< 30.00
132322	1745.00				21.30	25.70	< 30.00
132665	1779.30				21.25	25.65	< 30.00
131979	1710.70	1.4	1	2	21.87	26.27	< 30.00
132322	1745.00				21.41	25.81	< 30.00
132665	1779.30				21.24	25.64	< 30.00
131979	1710.70	1.4	1	6	21.92	26.32	< 30.00
132322	1745.00				21.23	25.63	< 30.00
132665	1779.30				21.32	25.72	< 30.00
131979	1710.70	1.4	6	0	19.92	24.32	< 30.00
132322	1745.00				19.13	23.53	< 30.00
132665	1779.30				19.06	23.46	< 30.00
131987	1711.50	3	1	0	21.22	25.62	< 30.00
132322	1745.00				22.02	26.42	< 30.00
132657	1778.50				21.36	25.76	< 30.00
131987	1711.50	3	1	7	21.18	25.58	< 30.00
132322	1745.00				22.15	26.55	< 30.00
132657	1778.50				21.25	25.65	< 30.00
131987	1711.50	3	1	14	21.30	25.70	< 30.00
132322	1745.00				22.05	26.45	< 30.00
132657	1778.50				21.25	25.65	< 30.00
131987	1711.50	3	15	0	19.04	23.44	< 30.00
132322	1745.00				20.19	24.59	< 30.00
132657	1778.50				19.08	23.48	< 30.00
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
16QAM							
131997	1712.50	5	1	0	21.90	26.30	< 30.00
132322	1745.00				21.97	26.37	< 30.00
132647	1777.50				21.93	26.33	< 30.00
131997	1712.50	5	1	12	20.09	24.49	< 30.00
132322	1745.00				21.96	26.36	< 30.00
132647	1777.50				22.03	26.43	< 30.00
131997	1712.50	5	1	24	22.04	26.44	< 30.00
132322	1745.00				20.16	24.56	< 30.00
132647	1777.50				21.99	26.39	< 30.00
131997	1712.50	5	25	0	22.09	26.49	< 30.00
132322	1745.00				21.90	26.30	< 30.00
132647	1777.50				20.06	24.46	< 30.00
132022	1715.00	10	1	0	21.93	26.33	< 30.00
132322	1745.00				21.36	25.76	< 30.00
132622	1775.00				21.11	25.51	< 30.00
132022	1715.00	10	1	24	21.83	26.23	< 30.00
132322	1745.00				21.40	25.80	< 30.00
132622	1775.00				21.50	25.90	< 30.00
132022	1715.00	10	1	49	21.93	26.33	< 30.00
132322	1745.00				21.39	25.79	< 30.00
132622	1775.00				21.53	25.93	< 30.00
132022	1715.00	10	50	0	19.97	24.37	< 30.00
132322	1745.00				19.16	23.56	< 30.00
132622	1775.00				19.07	23.47	< 30.00
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
16QAM							
132047	1717.50	15	1	0	21.83	26.23	< 30.00
132322	1745.00				21.99	26.39	< 30.00
132597	1772.50				21.98	26.38	< 30.00
132047	1717.50	15	1	37	21.85	26.25	< 30.00
132322	1745.00				21.90	26.30	< 30.00
132597	1772.50				22.10	26.50	< 30.00
132047	1717.50	15	1	74	21.98	26.38	< 30.00
132322	1745.00				22.07	26.47	< 30.00
132597	1772.50				22.03	26.43	< 30.00
132047	1717.50	15	75	0	19.04	23.44	< 30.00
132322	1745.00				19.10	23.50	< 30.00
132597	1772.50				19.09	23.49	< 30.00
132072	1720.00	20	1	0	21.94	26.34	< 30.00
132322	1745.00				21.94	26.34	< 30.00
132572	1770.00				21.95	26.35	< 30.00
132072	1720.00	20	1	49	21.90	26.30	< 30.00
132322	1745.00				22.04	26.44	< 30.00
132572	1770.00				21.96	26.36	< 30.00
132072	1720.00	20	1	99	21.93	26.33	< 30.00
132322	1745.00				21.95	26.35	< 30.00
132572	1770.00				21.97	26.37	< 30.00
132072	1720.00	20	100	0	20.09	24.49	< 30.00
132322	1745.00				20.09	24.49	< 30.00
132572	1770.00				20.14	24.54	< 30.00
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
64QAM							
131979	1710.70	1.4	1	0	21.04	25.44	< 30.00
132322	1745.00				20.20	24.60	< 30.00
132665	1779.30				20.10	24.50	< 30.00
131979	1710.70	1.4	1	2	21.28	25.68	< 30.00
132322	1745.00				20.20	24.60	< 30.00
132665	1779.30				20.21	24.61	< 30.00
131979	1710.70	1.4	1	6	21.01	25.41	< 30.00
132322	1745.00				20.28	24.68	< 30.00
132665	1779.30				20.07	24.47	< 30.00
131979	1710.70	1.4	6	0	18.99	23.39	< 30.00
132322	1745.00				17.14	21.54	< 30.00
132665	1779.30				17.03	21.43	< 30.00
131987	1711.50	3	1	0	21.25	25.65	< 30.00
132322	1745.00				20.15	24.55	< 30.00
132657	1778.50				21.09	25.49	< 30.00
131987	1711.50	3	1	7	21.27	25.67	< 30.00
132322	1745.00				20.35	24.75	< 30.00
132657	1778.50				20.97	25.37	< 30.00
131987	1711.50	3	1	14	21.38	25.78	< 30.00
132322	1745.00				20.06	24.46	< 30.00
132657	1778.50				21.12	25.52	< 30.00
131987	1711.50	3	15	0	19.17	23.57	< 30.00
132322	1745.00				17.14	21.54	< 30.00
132657	1778.50				17.05	21.45	< 30.00
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
64QAM							
131997	1712.50	5	1	0	21.09	25.49	< 30.00
132322	1745.00				21.31	25.71	< 30.00
132647	1777.50				21.07	25.47	< 30.00
131997	1712.50	5	1	12	20.97	25.37	< 30.00
132322	1745.00				21.46	25.86	< 30.00
132647	1777.50				21.11	25.51	< 30.00
131997	1712.50	5	1	24	21.12	25.52	< 30.00
132322	1745.00				21.33	25.73	< 30.00
132647	1777.50				21.10	25.50	< 30.00
131997	1712.50	5	25	0	17.05	21.45	< 30.00
132322	1745.00				19.11	23.51	< 30.00
132647	1777.50				17.12	21.52	< 30.00
132022	1715.00	10	1	0	21.23	25.63	< 30.00
132322	1745.00				20.00	24.40	< 30.00
132622	1775.00				20.03	24.43	< 30.00
132022	1715.00	10	1	24	21.34	25.74	< 30.00
132322	1745.00				20.05	24.45	< 30.00
132622	1775.00				20.09	24.49	< 30.00
132022	1715.00	10	1	49	21.42	25.82	< 30.00
132322	1745.00				20.23	24.63	< 30.00
132622	1775.00				20.05	24.45	< 30.00
132022	1715.00	10	50	0	19.03	23.43	< 30.00
132322	1745.00				17.14	21.54	< 30.00
132622	1775.00				17.12	21.52	< 30.00

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

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
64QAM							
132047	1717.50	15	1	0	20.17	24.57	< 30.00
132322	1745.00				20.17	24.57	< 30.00
132597	1772.50				20.31	24.71	< 30.00
132047	1717.50	15	1	37	20.07	24.47	< 30.00
132322	1745.00				20.34	24.74	< 30.00
132597	1772.50				20.39	24.79	< 30.00
132047	1717.50	15	1	74	20.06	24.46	< 30.00
132322	1745.00				20.43	24.83	< 30.00
132597	1772.50				20.41	24.81	< 30.00
132047	1717.50	15	75	0	16.99	21.39	< 30.00
132322	1745.00				17.26	21.66	< 30.00
132597	1772.50				17.04	21.44	< 30.00
132072	1720.00	20	1	0	21.46	25.86	< 30.00
132322	1745.00				20.97	25.37	< 30.00
132572	1770.00				21.32	25.72	< 30.00
132072	1720.00	20	1	49	21.18	25.58	< 30.00
132322	1745.00				21.15	25.55	< 30.00
132572	1770.00				20.99	25.39	< 30.00
132072	1720.00	20	1	99	21.06	25.46	< 30.00
132322	1745.00				21.17	25.57	< 30.00
132572	1770.00				21.14	25.54	< 30.00
132072	1720.00	20	100	0	19.02	23.42	< 30.00
132322	1745.00				17.26	21.66	< 30.00
132572	1770.00				17.13	21.53	< 30.00
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
256QAM							
131979	1710.70	1.4	1	0	20.14	24.54	< 30.00
132322	1745.00				17.09	21.49	< 30.00
132665	1779.30				16.97	21.37	< 30.00
131979	1710.70	1.4	1	2	20.12	24.52	< 30.00
132322	1745.00				17.32	21.72	< 30.00
132665	1779.30				17.35	21.75	< 30.00
131979	1710.70	1.4	1	6	20.09	24.49	< 30.00
132322	1745.00				17.26	21.66	< 30.00
132665	1779.30				16.82	21.22	< 30.00
131979	1710.70	1.4	6	0	17.07	21.47	< 30.00
132322	1745.00				17.11	21.51	< 30.00
132665	1779.30				16.95	21.35	< 30.00
131987	1711.50	3	1	0	17.24	21.64	< 30.00
132322	1745.00				20.21	24.61	< 30.00
132657	1778.50				17.05	21.45	< 30.00
131987	1711.50	3	1	7	17.27	21.67	< 30.00
132322	1745.00				20.25	24.65	< 30.00
132657	1778.50				16.97	21.37	< 30.00
131987	1711.50	3	1	14	17.08	21.48	< 30.00
132322	1745.00				20.21	24.61	< 30.00
132657	1778.50				17.08	21.48	< 30.00
131987	1711.50	3	15	0	17.01	21.41	< 30.00
132322	1745.00				17.16	21.56	< 30.00
132657	1778.50				17.10	21.50	< 30.00
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
256QAM							
131997	1712.50	5	1	0	17.04	21.44	< 30.00
132322	1745.00				20.29	24.69	< 30.00
132647	1777.50				20.24	24.64	< 30.00
131997	1712.50	5	1	12	17.04	21.44	< 30.00
132322	1745.00				20.23	24.63	< 30.00
132647	1777.50				20.31	24.71	< 30.00
131997	1712.50	5	1	24	17.13	21.53	< 30.00
132322	1745.00				20.34	24.74	< 30.00
132647	1777.50				20.12	24.52	< 30.00
131997	1712.50	5	25	0	17.11	21.51	< 30.00
132322	1745.00				17.20	21.60	< 30.00
132647	1777.50				17.17	21.57	< 30.00
132022	1715.00	10	1	0	20.36	24.76	< 30.00
132322	1745.00				17.04	21.44	< 30.00
132622	1775.00				17.08	21.48	< 30.00
132022	1715.00	10	1	24	19.83	24.23	< 30.00
132322	1745.00				17.36	21.76	< 30.00
132622	1775.00				17.11	21.51	< 30.00
132022	1715.00	10	1	49	20.15	24.55	< 30.00
132322	1745.00				17.28	21.68	< 30.00
132622	1775.00				17.00	21.40	< 30.00
132022	1715.00	10	50	0	17.09	21.49	< 30.00
132322	1745.00				17.27	21.67	< 30.00
132622	1775.00				16.98	21.38	< 30.00
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
256QAM							
132047	1717.50	15	1	0	16.91	21.31	< 30.00
132322	1745.00				17.05	21.45	< 30.00
132597	1772.50				17.01	21.41	< 30.00
132047	1717.50	15	1	37	17.03	21.43	< 30.00
132322	1745.00				17.14	21.54	< 30.00
132597	1772.50				17.34	21.74	< 30.00
132047	1717.50	15	1	74	17.40	21.80	< 30.00
132322	1745.00				17.08	21.48	< 30.00
132597	1772.50				17.33	21.73	< 30.00
132047	1717.50	15	75	0	17.06	21.46	< 30.00
132322	1745.00				17.21	21.61	< 30.00
132597	1772.50				17.00	21.40	< 30.00
132072	1720.00	20	1	0	20.07	24.47	< 30.00
132322	1745.00				17.16	21.56	< 30.00
132572	1770.00				17.32	21.72	< 30.00
132072	1720.00	20	1	49	20.11	24.51	< 30.00
132322	1745.00				17.44	21.84	< 30.00
132572	1770.00				17.26	21.66	< 30.00
132072	1720.00	20	1	99	20.41	24.81	< 30.00
132322	1745.00				17.18	21.58	< 30.00
132572	1770.00				17.06	21.46	< 30.00
132072	1720.00	20	100	0	17.16	21.56	< 30.00
132322	1745.00				17.25	21.65	< 30.00
132572	1770.00				17.13	21.53	< 30.00
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Product	5G High Power mmWave Outdoor CPE	Test Site	WZ-SR6
Test Engineer	Caitlin Chen	Test Date	2021/10/27 ~ 2021/11/03
Test Band	LTE Band 5		

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
QPSK							
26797	824.70	1.4	1	0	21.47	21.42	< 38.45
26915	836.50				21.35	21.30	< 38.45
27033	848.30				21.29	21.24	< 38.45
26797	824.70	1.4	1	2	21.57	21.52	< 38.45
26915	836.50				21.57	21.52	< 38.45
27033	848.30				21.31	21.26	< 38.45
26797	824.70	1.4	1	6	21.45	21.40	< 38.45
26915	836.50				21.43	21.38	< 38.45
27033	848.30				21.18	21.13	< 38.45
26797	824.70	1.4	6	0	19.59	19.54	< 38.45
26915	836.50				19.55	19.50	< 38.45
27033	848.30				19.34	19.29	< 38.45
26805	825.50	3	1	0	21.63	21.58	< 38.45
26915	836.50				21.63	21.58	< 38.45
27015	846.50				21.40	21.35	< 38.45
26805	825.50	3	1	7	21.55	21.50	< 38.45
26915	836.50				21.58	21.53	< 38.45
27015	846.50				21.43	21.38	< 38.45
26805	825.50	3	1	14	21.48	21.43	< 38.45
26915	836.50				21.47	21.42	< 38.45
27015	846.50				21.24	21.19	< 38.45
26805	825.50	3	15	0	19.67	19.62	< 38.45
26915	836.50				19.60	19.55	< 38.45
27015	846.50				19.44	19.39	< 38.45

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
QPSK							
26815	826.50	5	1	0	21.69	21.64	< 38.45
26915	836.50				21.58	21.53	< 38.45
27015	846.50				21.48	21.43	< 38.45
26815	826.50	5	1	12	21.70	21.65	< 38.45
26915	836.50				21.50	21.45	< 38.45
27015	846.50				21.32	21.27	< 38.45
26815	826.50	5	1	24	21.51	21.46	< 38.45
26915	836.50				21.54	21.49	< 38.45
27015	846.50				21.34	21.29	< 38.45
26815	826.50	5	25	0	20.62	20.57	< 38.45
26915	836.50				20.60	20.55	< 38.45
27015	846.50				20.52	20.47	< 38.45
26840	829.00	10	1	0	21.61	21.56	< 38.45
26915	836.50				21.61	21.56	< 38.45
26990	844.00				21.60	21.55	< 38.45
26840	829.00	10	1	24	21.79	21.74	< 38.45
26915	836.50				21.56	21.51	< 38.45
26990	844.00				21.34	21.29	< 38.45
26840	829.00	10	1	49	21.59	21.54	< 38.45
26915	836.50				21.45	21.40	< 38.45
26990	844.00				21.27	21.22	< 38.45
26840	829.00	10	50	0	19.66	19.61	< 38.45
26915	836.50				19.67	19.62	< 38.45
26990	844.00				19.52	19.47	< 38.45

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
16QAM							
26797	824.70	1.4	1	0	20.86	20.81	< 38.45
26915	836.50				20.82	20.77	< 38.45
27033	848.30				20.84	20.79	< 38.45
26797	824.70	1.4	1	2	20.71	20.66	< 38.45
26915	836.50				21.00	20.95	< 38.45
27033	848.30				20.77	20.72	< 38.45
26797	824.70	1.4	1	6	20.62	20.57	< 38.45
26915	836.50				20.82	20.77	< 38.45
27033	848.30				20.59	20.54	< 38.45
26797	824.70	1.4	6	0	18.58	18.53	< 38.45
26915	836.50				18.50	18.45	< 38.45
27033	848.30				18.38	18.33	< 38.45
26805	825.50	3	1	0	20.98	20.93	< 38.45
26915	836.50				20.85	20.80	< 38.45
27015	846.50				20.74	20.69	< 38.45
26805	825.50	3	1	7	20.86	20.81	< 38.45
26915	836.50				21.03	20.98	< 38.45
27015	846.50				20.72	20.67	< 38.45
26805	825.50	3	1	14	20.71	20.66	< 38.45
26915	836.50				21.00	20.95	< 38.45
27015	846.50				20.69	20.64	< 38.45
26805	825.50	3	15	0	18.69	18.64	< 38.45
26915	836.50				18.65	18.60	< 38.45
27015	846.50				18.47	18.42	< 38.45

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
16QAM							
26815	826.50	5	1	0	21.72	21.67	< 38.45
26915	836.50				21.62	21.57	< 38.45
27015	846.50				21.45	21.40	< 38.45
26815	826.50	5	1	12	21.51	21.46	< 38.45
26915	836.50				21.51	21.46	< 38.45
27015	846.50				21.39	21.34	< 38.45
26815	826.50	5	1	24	21.51	21.46	< 38.45
26915	836.50				21.57	21.52	< 38.45
27015	846.50				21.28	21.23	< 38.45
26815	826.50	5	25	0	19.68	19.63	< 38.45
26915	836.50				19.61	19.56	< 38.45
27015	846.50				19.47	19.42	< 38.45
26840	829.00	10	1	0	21.03	20.98	< 38.45
26915	836.50				21.21	21.16	< 38.45
26990	844.00				21.01	20.96	< 38.45
26840	829.00	10	1	24	20.88	20.83	< 38.45
26915	836.50				20.91	20.86	< 38.45
26990	844.00				20.83	20.78	< 38.45
26840	829.00	10	1	49	21.09	21.04	< 38.45
26915	836.50				21.50	21.45	< 38.45
26990	844.00				20.51	20.46	< 38.45
26840	829.00	10	50	0	18.72	18.67	< 38.45
26915	836.50				19.61	19.56	< 38.45
26990	844.00				18.45	18.40	< 38.45
Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15							

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
64QAM							
26797	824.70	1.4	1	0	19.64	19.59	< 38.45
26915	836.50				19.65	19.60	< 38.45
27033	848.30				19.40	19.35	< 38.45
26797	824.70	1.4	1	2	19.66	19.61	< 38.45
26915	836.50				19.72	19.67	< 38.45
27033	848.30				19.56	19.51	< 38.45
26797	824.70	1.4	1	6	19.76	19.71	< 38.45
26915	836.50				19.55	19.50	< 38.45
27033	848.30				19.47	19.42	< 38.45
26797	824.70	1.4	6	0	16.66	16.61	< 38.45
26915	836.50				16.56	16.51	< 38.45
27033	848.30				16.31	16.26	< 38.45
26805	825.50	3	1	0	19.77	19.72	< 38.45
26915	836.50				19.78	19.73	< 38.45
27015	846.50				19.73	19.68	< 38.45
26805	825.50	3	1	7	19.70	19.65	< 38.45
26915	836.50				19.85	19.80	< 38.45
27015	846.50				19.62	19.57	< 38.45
26805	825.50	3	1	14	19.92	19.87	< 38.45
26915	836.50				19.59	19.54	< 38.45
27015	846.50				19.56	19.51	< 38.45
26805	825.50	3	15	0	16.66	16.61	< 38.45
26915	836.50				16.61	16.56	< 38.45
27015	846.50				16.42	16.37	< 38.45

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
64QAM							
26815	826.50	5	1	0	20.91	20.86	< 38.45
26915	836.50				20.72	20.67	< 38.45
27015	846.50				20.73	20.68	< 38.45
26815	826.50	5	1	12	20.59	20.54	< 38.45
26915	836.50				20.60	20.55	< 38.45
27015	846.50				20.71	20.66	< 38.45
26815	826.50	5	1	24	20.74	20.69	< 38.45
26915	836.50				20.68	20.63	< 38.45
27015	846.50				20.65	20.60	< 38.45
26815	826.50	5	25	0	16.69	16.64	< 38.45
26915	836.50				16.65	16.60	< 38.45
27015	846.50				18.52	18.47	< 38.45
26840	829.00	10	1	0	19.62	19.57	< 38.45
26915	836.50				20.79	20.74	< 38.45
26990	844.00				19.67	19.62	< 38.45
26840	829.00	10	1	24	19.62	19.57	< 38.45
26915	836.50				20.81	20.76	< 38.45
26990	844.00				19.86	19.81	< 38.45
26840	829.00	10	1	49	19.71	19.66	< 38.45
26915	836.50				20.77	20.72	< 38.45
26990	844.00				19.46	19.41	< 38.45
26840	829.00	10	50	0	16.76	16.71	< 38.45
26915	836.50				18.59	18.54	< 38.45
26990	844.00				16.32	16.27	< 38.45
Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15							

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
256QAM							
26797	824.70	1.4	1	0	16.79	16.74	< 38.45
26915	836.50				16.69	16.64	< 38.45
27033	848.30				16.29	16.24	< 38.45
26797	824.70	1.4	1	2	16.85	16.80	< 38.45
26915	836.50				16.65	16.60	< 38.45
27033	848.30				16.57	16.52	< 38.45
26797	824.70	1.4	1	6	16.80	16.75	< 38.45
26915	836.50				16.58	16.53	< 38.45
27033	848.30				16.50	16.45	< 38.45
26797	824.70	1.4	6	0	16.62	16.57	< 38.45
26915	836.50				16.52	16.47	< 38.45
27033	848.30				16.29	16.24	< 38.45
26805	825.50	3	1	0	16.87	16.82	< 38.45
26915	836.50				16.59	16.54	< 38.45
27015	846.50				16.72	16.67	< 38.45
26805	825.50	3	1	7	16.81	16.76	< 38.45
26915	836.50				16.59	16.54	< 38.45
27015	846.50				16.28	16.23	< 38.45
26805	825.50	3	1	14	16.59	16.54	< 38.45
26915	836.50				16.59	16.54	< 38.45
27015	846.50				16.35	16.30	< 38.45
26805	825.50	3	15	0	16.64	16.59	< 38.45
26915	836.50				16.62	16.57	< 38.45
27015	846.50				16.39	16.34	< 38.45
Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15							

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
256QAM							
26815	826.50	5	1	0	16.81	16.76	< 38.45
26915	836.50				16.82	16.77	< 38.45
27015	846.50				19.71	19.66	< 38.45
26815	826.50	5	1	12	16.67	16.62	< 38.45
26915	836.50				16.91	16.86	< 38.45
27015	846.50				19.60	19.55	< 38.45
26815	826.50	5	1	24	16.81	16.76	< 38.45
26915	836.50				16.80	16.75	< 38.45
27015	846.50				19.59	19.54	< 38.45
26815	826.50	5	25	0	16.69	16.64	< 38.45
26915	836.50				16.65	16.60	< 38.45
27015	846.50				16.49	16.44	< 38.45
26840	829.00	10	1	0	16.88	16.83	< 38.45
26915	836.50				19.74	19.69	< 38.45
26990	844.00				16.82	16.77	< 38.45
26840	829.00	10	1	24	16.87	16.82	< 38.45
26915	836.50				19.86	19.81	< 38.45
26990	844.00				16.46	16.41	< 38.45
26840	829.00	10	1	49	16.83	16.78	< 38.45
26915	836.50				19.74	19.69	< 38.45
26990	844.00				16.54	16.49	< 38.45
26840	829.00	10	50	0	16.72	16.67	< 38.45
26915	836.50				16.74	16.69	< 38.45
26990	844.00				16.44	16.39	< 38.45

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Product	5G High Power mmWave Outdoor CPE	Test Site	WZ-SR6
Test Engineer	Caitlin Chen	Test Date	2021/10/27 ~ 2021/11/03
Test Band	LTE Band 12/17		

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
QPSK							
23017	699.7	1.4	1	0	21.59	21.04	< 44.77
23095	707.5				21.44	20.89	< 44.77
23173	715.3				21.39	20.84	< 44.77
23017	699.7	1.4	1	2	20.66	20.11	< 44.77
23095	707.5				21.67	21.12	< 44.77
23173	715.3				21.34	20.79	< 44.77
23017	699.7	1.4	1	6	21.52	20.97	< 44.77
23095	707.5				21.42	20.87	< 44.77
23173	715.3				21.29	20.74	< 44.77
23017	699.7	1.4	6	0	20.59	20.04	< 44.77
23095	707.5				20.61	20.06	< 44.77
23173	715.3				19.37	18.82	< 44.77
23025	700.5	3	1	0	21.77	21.22	< 44.77
23095	707.5				21.64	21.09	< 44.77
23165	714.5				21.46	20.91	< 44.77
23025	700.5	3	1	7	21.66	21.11	< 44.77
23095	707.5				21.76	21.21	< 44.77
23165	714.5				21.33	20.78	< 44.77
23025	700.5	3	1	14	21.59	21.04	< 44.77
23095	707.5				21.53	20.98	< 44.77
23165	714.5				21.35	20.80	< 44.77
23025	700.5	3	15	0	19.82	19.27	< 44.77
23095	707.5				19.64	19.09	< 44.77
23165	714.5				19.46	18.91	< 44.77

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
QPSK							
23035	701.5	5	1	0	21.74	21.19	< 44.77
23095	707.5				21.60	21.05	< 44.77
23155	713.5				21.53	20.98	< 44.77
23035	701.5	5	1	12	21.58	21.03	< 44.77
23095	707.5				21.58	21.03	< 44.77
23155	713.5				21.36	20.81	< 44.77
23035	701.5	5	1	24	21.55	21.00	< 44.77
23095	707.5				21.49	20.94	< 44.77
23155	713.5				21.35	20.80	< 44.77
23035	701.5	5	25	0	20.77	20.22	< 44.77
23095	707.5				20.64	20.09	< 44.77
23155	713.5				20.51	19.96	< 44.77
23060	704.0	10	1	0	21.59	21.04	< 44.77
23095	707.5				21.69	21.14	< 44.77
23130	711.0				21.55	21.00	< 44.77
23060	704.0	10	1	24	21.45	20.90	< 44.77
23095	707.5				21.52	20.97	< 44.77
23130	711.0				21.42	20.87	< 44.77
23060	704.0	10	1	49	21.57	21.02	< 44.77
23095	707.5				21.44	20.89	< 44.77
23130	711.0				21.37	20.82	< 44.77
23060	704.0	10	50	0	19.84	19.29	< 44.77
23095	707.5				19.60	19.05	< 44.77
23130	711.0				19.65	19.10	< 44.77
Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15							

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
16QAM							
23017	699.7	1.4	1	0	21.60	21.05	< 44.77
23095	707.5				21.48	20.93	< 44.77
23173	715.3				20.66	20.11	< 44.77
23017	699.7	1.4	1	2	21.53	20.98	< 44.77
23095	707.5				21.56	21.01	< 44.77
23173	715.3				20.60	20.05	< 44.77
23017	699.7	1.4	1	6	21.51	20.96	< 44.77
23095	707.5				21.50	20.95	< 44.77
23173	715.3				20.61	20.06	< 44.77
23017	699.7	1.4	6	0	19.65	19.10	< 44.77
23095	707.5				19.55	19.00	< 44.77
23173	715.3				18.42	17.87	< 44.77
23025	700.5	3	1	0	21.07	20.52	< 44.77
23095	707.5				21.07	20.52	< 44.77
23165	714.5				20.88	20.33	< 44.77
23025	700.5	3	1	7	20.91	20.36	< 44.77
23095	707.5				20.98	20.43	< 44.77
23165	714.5				20.83	20.28	< 44.77
23025	700.5	3	1	14	20.81	20.26	< 44.77
23095	707.5				20.72	20.17	< 44.77
23165	714.5				20.78	20.23	< 44.77
23025	700.5	3	15	0	18.81	18.26	< 44.77
23095	707.5				18.61	18.06	< 44.77
23165	714.5				18.46	17.91	< 44.77
Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15							

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
16QAM							
23035	701.5	5	1	0	21.69	21.14	< 44.77
23095	707.5				21.67	21.12	< 44.77
23155	713.5				21.50	20.95	< 44.77
23035	701.5	5	1	12	21.57	21.02	< 44.77
23095	707.5				21.60	21.05	< 44.77
23155	713.5				21.42	20.87	< 44.77
23035	701.5	5	1	24	21.56	21.01	< 44.77
23095	707.5				21.48	20.93	< 44.77
23155	713.5				21.34	20.79	< 44.77
23035	701.5	5	25	0	19.68	19.13	< 44.77
23095	707.5				19.60	19.05	< 44.77
23155	713.5				19.58	19.03	< 44.77
23060	704.0	10	1	0	20.95	20.40	< 44.77
23095	707.5				21.16	20.61	< 44.77
23130	711.0				22.52	21.97	< 44.77
23060	704.0	10	1	24	20.80	20.25	< 44.77
23095	707.5				20.94	20.39	< 44.77
23130	711.0				22.46	21.91	< 44.77
23060	704.0	10	1	49	20.76	20.21	< 44.77
23095	707.5				20.79	20.24	< 44.77
23130	711.0				22.47	21.92	< 44.77
23060	704.0	10	50	0	18.58	18.03	< 44.77
23095	707.5				18.65	18.10	< 44.77
23130	711.0				20.60	20.05	< 44.77
Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15							

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
64QAM							
23017	699.7	1.4	1	0	20.80	20.25	< 44.77
23095	707.5				20.61	20.06	< 44.77
23173	715.3				19.48	18.93	< 44.77
23017	699.7	1.4	1	2	20.94	20.39	< 44.77
23095	707.5				21.05	20.50	< 44.77
23173	715.3				19.50	18.95	< 44.77
23017	699.7	1.4	1	6	20.74	20.19	< 44.77
23095	707.5				20.76	20.21	< 44.77
23173	715.3				19.33	18.78	< 44.77
23017	699.7	1.4	6	0	18.75	18.20	< 44.77
23095	707.5				18.63	18.08	< 44.77
23173	715.3				16.40	15.85	< 44.77
23025	700.5	3	1	0	20.00	19.45	< 44.77
23095	707.5				20.00	19.45	< 44.77
23165	714.5				19.64	19.09	< 44.77
23025	700.5	3	1	7	19.88	19.33	< 44.77
23095	707.5				19.76	19.21	< 44.77
23165	714.5				19.72	19.17	< 44.77
23025	700.5	3	1	14	19.90	19.35	< 44.77
23095	707.5				19.60	19.05	< 44.77
23165	714.5				19.49	18.94	< 44.77
23025	700.5	3	15	0	16.75	16.20	< 44.77
23095	707.5				16.63	16.08	< 44.77
23165	714.5				16.54	15.99	< 44.77
Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15							

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
64QAM							
23035	701.5	5	1	0	20.78	20.23	< 44.77
23095	707.5				20.78	20.23	< 44.77
23155	713.5				20.66	20.11	< 44.77
23035	701.5	5	1	12	20.78	20.23	< 44.77
23095	707.5				20.71	20.16	< 44.77
23155	713.5				20.69	20.14	< 44.77
23035	701.5	5	1	24	20.72	20.17	< 44.77
23095	707.5				20.51	19.96	< 44.77
23155	713.5				20.52	19.97	< 44.77
23035	701.5	5	25	0	16.74	16.19	< 44.77
23095	707.5				16.61	16.06	< 44.77
23155	713.5				16.55	16.00	< 44.77
23060	704.0	10	1	0	19.74	19.19	< 44.77
23095	707.5				19.89	19.34	< 44.77
23130	711.0				21.85	21.30	< 44.77
23060	704.0	10	1	24	19.78	19.23	< 44.77
23095	707.5				19.67	19.12	< 44.77
23130	711.0				21.80	21.25	< 44.77
23060	704.0	10	1	49	19.56	19.01	< 44.77
23095	707.5				19.54	18.99	< 44.77
23130	711.0				21.84	21.29	< 44.77
23060	704.0	10	50	0	16.59	16.04	< 44.77
23095	707.5				16.61	16.06	< 44.77
23130	711.0				19.65	19.10	< 44.77
Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15							

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
256QAM							
23017	699.7	1.4	1	0	19.90	19.35	< 44.77
23095	707.5				19.76	19.21	< 44.77
23173	715.3				16.30	15.75	< 44.77
23017	699.7	1.4	1	2	19.85	19.30	< 44.77
23095	707.5				19.84	19.29	< 44.77
23173	715.3				16.40	15.85	< 44.77
23017	699.7	1.4	1	6	19.82	19.27	< 44.77
23095	707.5				19.82	19.27	< 44.77
23173	715.3				16.51	15.96	< 44.77
23017	699.7	1.4	6	0	16.65	16.10	< 44.77
23095	707.5				16.53	15.98	< 44.77
23173	715.3				16.39	15.84	< 44.77
23025	700.5	3	1	0	17.05	16.50	< 44.77
23095	707.5				16.95	16.40	< 44.77
23165	714.5				16.42	15.87	< 44.77
23025	700.5	3	1	7	16.62	16.07	< 44.77
23095	707.5				16.88	16.33	< 44.77
23165	714.5				16.66	16.11	< 44.77
23025	700.5	3	1	14	16.78	16.23	< 44.77
23095	707.5				16.54	15.99	< 44.77
23165	714.5				16.38	15.83	< 44.77
23025	700.5	3	15	0	16.75	16.20	< 44.77
23095	707.5				16.60	16.05	< 44.77
23165	714.5				16.51	15.96	< 44.77

Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	ERP (dBm)	Limit (dBm)
256QAM							
23035	701.5	5	1	0	16.90	16.35	< 44.77
23095	707.5				16.73	16.18	< 44.77
23155	713.5				16.65	16.10	< 44.77
23035	701.5	5	1	12	16.82	16.27	< 44.77
23095	707.5				17.02	16.47	< 44.77
23155	713.5				16.43	15.88	< 44.77
23035	701.5	5	1	24	16.74	16.19	< 44.77
23095	707.5				16.60	16.05	< 44.77
23155	713.5				16.44	15.89	< 44.77
23035	701.5	5	25	0	16.74	16.19	< 44.77
23095	707.5				16.68	16.13	< 44.77
23155	713.5				16.55	16.00	< 44.77
23060	704.0	10	1	0	16.87	16.32	< 44.77
23095	707.5				16.58	16.03	< 44.77
23130	711.0				20.81	20.26	< 44.77
23060	704.0	10	1	24	16.73	16.18	< 44.77
23095	707.5				16.78	16.23	< 44.77
23130	711.0				20.75	20.20	< 44.77
23060	704.0	10	1	49	16.74	16.19	< 44.77
23095	707.5				16.25	15.70	< 44.77
23130	711.0				20.76	20.21	< 44.77
23060	704.0	10	50	0	16.71	16.16	< 44.77
23095	707.5				16.62	16.07	< 44.77
23130	711.0				17.65	17.10	< 44.77
Note: The ERP (dBm) = Output Power (dBm) + Antenna Gain (dBi) - 2.15							

Product	5G High Power mmWave Outdoor CPE	Test Site	WZ-SR6
Test Engineer	Caitlin Chen	Test Date	2021/10/27 ~ 2021/11/03
Test Band	LTE Band 41		

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
QPSK							
39675	2498.50	5	1	0	22.86	27.96	< 33.01
40620	2593.00				22.67	27.77	< 33.01
40565	2687.50				22.59	27.69	< 33.01
39675	2498.50	5	1	12	22.85	27.95	< 33.01
40620	2593.00				22.61	27.71	< 33.01
40565	2687.50				22.39	27.49	< 33.01
39675	2498.50	5	1	24	22.78	27.88	< 33.01
40620	2593.00				22.60	27.70	< 33.01
40565	2687.50				22.38	27.48	< 33.01
39675	2498.50	5	25	0	21.90	27.00	< 33.01
40620	2593.00				21.69	26.79	< 33.01
40565	2687.50				20.58	25.68	< 33.01
39700	2501.00	10	1	0	22.79	27.89	< 33.01
40620	2593.00				22.68	27.78	< 33.01
41540	2685.00				22.47	27.57	< 33.01
39700	2501.00	10	1	24	22.87	27.97	< 33.01
40620	2593.00				22.67	27.77	< 33.01
41540	2685.00				22.28	27.38	< 33.01
39700	2501.00	10	1	49	22.77	27.87	< 33.01
40620	2593.00				22.60	27.70	< 33.01
41540	2685.00				22.27	27.37	< 33.01
39700	2501.00	10	50	0	20.93	26.03	< 33.01
40620	2593.00				20.69	25.79	< 33.01
41540	2685.00				21.51	26.61	< 33.01

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

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
QPSK							
39725	2503.50	15	1	0	22.47	27.57	< 33.01
40620	2593.00				22.75	27.85	< 33.01
41515	2682.50				22.65	27.75	< 33.01
39725	2503.50	15	1	37	22.28	27.38	< 33.01
40620	2593.00				22.71	27.81	< 33.01
41515	2682.50				22.52	27.62	< 33.01
39725	2503.50	15	1	74	22.27	27.37	< 33.01
40620	2593.00				22.80	27.90	< 33.01
41515	2682.50				22.60	27.70	< 33.01
39725	2503.50	15	75	0	21.51	26.61	< 33.01
40620	2593.00				21.85	26.95	< 33.01
41515	2682.50				21.63	26.73	< 33.01
39750	2506.00	20	1	0	22.53	27.63	< 33.01
40620	2593.00				22.82	27.92	< 33.01
41490	2680.00				22.70	27.80	< 33.01
39750	2506.00	20	1	49	22.32	27.42	< 33.01
40620	2593.00				22.67	27.77	< 33.01
41490	2680.00				22.49	27.59	< 33.01
39750	2506.00	20	1	99	22.36	27.46	< 33.01
40620	2593.00				22.74	27.84	< 33.01
41490	2680.00				22.42	27.52	< 33.01
39750	2506.00	20	100	0	21.56	26.66	< 33.01
40620	2593.00				21.87	26.97	< 33.01
41490	2680.00				21.59	26.69	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
16QAM							
39675	2498.50	5	1	0	22.84	27.94	< 33.01
40620	2593.00				22.66	27.76	< 33.01
40565	2687.50				21.88	26.98	< 33.01
39675	2498.50	5	1	12	22.83	27.93	< 33.01
40620	2593.00				22.60	27.70	< 33.01
40565	2687.50				21.91	27.01	< 33.01
39675	2498.50	5	1	24	22.80	27.90	< 33.01
40620	2593.00				22.60	27.70	< 33.01
40565	2687.50				21.81	26.91	< 33.01
39675	2498.50	5	25	0	20.91	26.01	< 33.01
40620	2593.00				20.72	25.82	< 33.01
40565	2687.50				19.65	24.75	< 33.01
39700	2501.00	10	1	0	21.88	26.98	< 33.01
40620	2593.00				22.25	27.35	< 33.01
41540	2685.00				20.76	25.86	< 33.01
39700	2501.00	10	1	24	21.91	27.01	< 33.01
40620	2593.00				22.24	27.34	< 33.01
41540	2685.00				20.77	25.87	< 33.01
39700	2501.00	10	1	49	21.81	26.91	< 33.01
40620	2593.00				22.25	27.35	< 33.01
41540	2685.00				20.73	25.83	< 33.01
39700	2501.00	10	50	0	19.65	24.75	< 33.01
40620	2593.00				19.98	25.08	< 33.01
41540	2685.00				17.77	22.87	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
16QAM							
39725	2503.50	15	1	0	22.36	27.46	< 33.01
40620	2593.00				22.69	27.79	< 33.01
41515	2682.50				22.53	27.63	< 33.01
39725	2503.50	15	1	37	22.19	27.29	< 33.01
40620	2593.00				22.57	27.67	< 33.01
41515	2682.50				22.41	27.51	< 33.01
39725	2503.50	15	1	74	22.16	27.26	< 33.01
40620	2593.00				22.64	27.74	< 33.01
41515	2682.50				22.48	27.58	< 33.01
39725	2503.50	15	75	0	19.56	24.66	< 33.01
40620	2593.00				19.93	25.03	< 33.01
41515	2682.50				19.65	24.75	< 33.01
39750	2506.00	20	1	0	22.44	27.54	< 33.01
40620	2593.00				22.73	27.83	< 33.01
41490	2680.00				22.57	27.67	< 33.01
39750	2506.00	20	1	49	22.26	27.36	< 33.01
40620	2593.00				22.64	27.74	< 33.01
41490	2680.00				22.46	27.56	< 33.01
39750	2506.00	20	1	99	22.27	27.37	< 33.01
40620	2593.00				22.63	27.73	< 33.01
41490	2680.00				22.37	27.47	< 33.01
39750	2506.00	20	100	0	20.60	25.70	< 33.01
40620	2593.00				20.93	26.03	< 33.01
41490	2680.00				20.64	25.74	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
64QAM							
39675	2498.50	5	1	0	22.02	27.12	< 33.01
40620	2593.00				21.80	26.90	< 33.01
40565	2687.50				20.76	25.86	< 33.01
39675	2498.50	5	1	12	21.99	27.09	< 33.01
40620	2593.00				21.77	26.87	< 33.01
40565	2687.50				20.56	25.66	< 33.01
39675	2498.50	5	1	24	22.04	27.14	< 33.01
40620	2593.00				21.78	26.88	< 33.01
40565	2687.50				20.59	25.69	< 33.01
39675	2498.50	5	25	0	18.05	23.15	< 33.01
40620	2593.00				17.78	22.88	< 33.01
40565	2687.50				17.71	22.81	< 33.01
39700	2501.00	10	1	0	20.76	25.86	< 33.01
40620	2593.00				20.89	25.99	< 33.01
41540	2685.00				20.76	25.86	< 33.01
39700	2501.00	10	1	24	20.56	25.66	< 33.01
40620	2593.00				21.02	26.12	< 33.01
41540	2685.00				20.77	25.87	< 33.01
39700	2501.00	10	1	49	20.59	25.69	< 33.01
40620	2593.00				20.99	26.09	< 33.01
41540	2685.00				20.73	25.83	< 33.01
39700	2501.00	10	50	0	17.71	22.81	< 33.01
40620	2593.00				18.00	23.10	< 33.01
41540	2685.00				17.77	22.87	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
64QAM							
39725	2503.50	15	1	0	20.40	25.50	< 33.01
40620	2593.00				20.63	25.73	< 33.01
41515	2682.50				20.53	25.63	< 33.01
39725	2503.50	15	1	37	20.26	25.36	< 33.01
40620	2593.00				20.60	25.70	< 33.01
41515	2682.50				20.48	25.58	< 33.01
39725	2503.50	15	1	74	20.27	25.37	< 33.01
40620	2593.00				20.74	25.84	< 33.01
41515	2682.50				20.53	25.63	< 33.01
39725	2503.50	15	75	0	17.54	22.64	< 33.01
40620	2593.00				17.96	23.06	< 33.01
41515	2682.50				17.68	22.78	< 33.01
39750	2506.00	20	1	0	21.72	26.82	< 33.01
40620	2593.00				21.97	27.07	< 33.01
41490	2680.00				21.84	26.94	< 33.01
39750	2506.00	20	1	49	21.47	26.57	< 33.01
40620	2593.00				21.86	26.96	< 33.01
41490	2680.00				21.65	26.75	< 33.01
39750	2506.00	20	1	99	21.56	26.66	< 33.01
40620	2593.00				21.98	27.08	< 33.01
41490	2680.00				21.71	26.81	< 33.01
39750	2506.00	20	100	0	17.56	22.66	< 33.01
40620	2593.00				17.97	23.07	< 33.01
41490	2680.00				17.64	22.74	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
256QAM							
39675	2498.50	5	1	0	17.55	22.65	< 33.01
40620	2593.00				17.38	22.48	< 33.01
40565	2687.50				17.34	22.44	< 33.01
39675	2498.50	5	1	12	17.60	22.70	< 33.01
40620	2593.00				17.43	22.53	< 33.01
40565	2687.50				17.14	22.24	< 33.01
39675	2498.50	5	1	24	17.53	22.63	< 33.01
40620	2593.00				17.30	22.40	< 33.01
40565	2687.50				17.04	22.14	< 33.01
39675	2498.50	5	25	0	18.01	23.11	< 33.01
40620	2593.00				17.76	22.86	< 33.01
40565	2687.50				17.68	22.78	< 33.01
39700	2501.00	10	1	0	17.34	22.44	< 33.01
40620	2593.00				17.42	22.52	< 33.01
41540	2685.00				17.34	22.44	< 33.01
39700	2501.00	10	1	24	17.14	22.24	< 33.01
40620	2593.00				17.41	22.51	< 33.01
41540	2685.00				17.31	22.41	< 33.01
39700	2501.00	10	1	49	17.04	22.14	< 33.01
40620	2593.00				17.50	22.60	< 33.01
41540	2685.00				17.30	22.40	< 33.01
39700	2501.00	10	50	0	17.68	22.78	< 33.01
40620	2593.00				17.97	23.07	< 33.01
41540	2685.00				17.72	22.82	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

Channel No.	Frequency (MHz)	Channel Bandwidth (MHz)	RB Size	RB Offset	Output Power (dBm)	EIRP (dBm)	Limit (dBm)
256QAM							
39725	2503.50	15	1	0	17.19	22.29	< 33.01
40620	2593.00				17.39	22.49	< 33.01
41515	2682.50				17.26	22.36	< 33.01
39725	2503.50	15	1	37	17.03	22.13	< 33.01
40620	2593.00				17.35	22.45	< 33.01
41515	2682.50				17.17	22.27	< 33.01
39725	2503.50	15	1	74	16.98	22.08	< 33.01
40620	2593.00				17.44	22.54	< 33.01
41515	2682.50				17.27	22.37	< 33.01
39725	2503.50	15	75	0	17.59	22.69	< 33.01
40620	2593.00				17.97	23.07	< 33.01
41515	2682.50				17.68	22.78	< 33.01
39750	2506.00	20	1	0	17.19	22.29	< 33.01
40620	2593.00				17.46	22.56	< 33.01
41490	2680.00				17.26	22.36	< 33.01
39750	2506.00	20	1	49	17.04	22.14	< 33.01
40620	2593.00				17.39	22.49	< 33.01
41490	2680.00				17.12	22.22	< 33.01
39750	2506.00	20	1	99	17.10	22.20	< 33.01
40620	2593.00				17.46	22.56	< 33.01
41490	2680.00				17.17	22.27	< 33.01
39750	2506.00	20	100	0	17.60	22.70	< 33.01
40620	2593.00				17.99	23.09	< 33.01
41490	2680.00				17.68	22.78	< 33.01
Note: The EIRP (dBm) = Output Power (dBm) + Antenna Gain (dBi)							

4.5. Band Edge Measurement

4.5.1. Test Limit

22.917(a), 27.53 (g) (h)

For operations in the 824 ~ 849 MHz, 600MHz & 698 ~ 746 MHz and 1710 ~ 1780 MHz, the FCC limit is $43 + 10\log_{10}(P_{\text{Watts}})$ dB below the transmitter power P(Watts) in a 1 MHz bandwidth.

However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53(m)(4)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

4.5.2. Test Procedure Used

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4.5.3. Test Setting

1. Set the analyzer frequency to low or high channel
2. $RBW \geq$ The nominal RBW shall be in the range of 1% of the anticipated OBW (in the 1MHz band immediately outside and adjacent to the band edge). For improvement of the accuracy in the measurement of the average power of a noise-like emission, a RBW narrower than the specified reference bandwidth can be used (generally limited to no less than 1% of the OBW), provided that a subsequent integration is performed over the full required measurement bandwidth. This integration should be performed using the spectrum analyzer's band power functions.
3. $VBW \geq 3 * RBW$
4. Sweep time = auto
5. Detector = power averaging (rms)
6. Set sweep trigger to "free run."
7. User gate triggered such that the analyzer only sweeps when the device is transmitting at full power
8. Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time.

4.5.4. Test Setup

