

TEST REPORT

FCC Test for RF2216d-D1A
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2111-FC093

DATE OF ISSUE
December 1, 2021

Tested by
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TEST REPORT

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Additional Model
-

Applicant	SAMSUNG Electronics Co., Ltd. 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
EUT Type	RRU(RF2216d)
Model Name	RF2216d-D1A
FCC ID	A3LRF2216D-D1A
Date of Test	October 21, 2021~ November 25, 2021
FCC Rule Parts:	CFR 47 Part 2, Part 27

The result shown in this test report refer only to the sample(s) tested unless otherwise stated.
This test results were applied only to the test methods required by the standard.

REVISION HISTORY

The revision history for this test report is shown in table.

Revision No.	Date of Issue	Description
0	December 01, 2021	Initial Release

The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of the FCC Rules under normal use and maintenance.

If this report is required to confirmation of authenticity, please contact to www.hct.co.kr

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1. GENERAL INFORMATION

1.1. APPLICANT INFORMATION

Company Name	Samsung Electronics Co., Ltd.
Company Address	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea

1.2. PRODUCT INFORMATION

EUT Type	RRU(RF2216d)					
EUT Serial Number	68530521A90013					
Power Supply	-48 VDC					
Output Power	Band	Carrier	Bandwidth		Power	
	B13 LTE	1	5 MHz		0.125 W/path, Total: 0.25 W	
	B13 LTE	1	10 MHz		0.125 W/path, Total: 0.25 W	
	5G NR n13	1	5 MHz		0.125 W/path, Total: 0.25 W	
	5G NR n13	1	10 MHz		0.125 W/path, Total: 0.25 W	
	B66 LTE	1	5 MHz		0.125 W/path, Total: 0.25 W	
	B66 LTE	1	10 MHz		0.125 W/path, Total: 0.25 W	
	B66 LTE	1	15 MHz		0.125 W/path, Total: 0.25 W	
	B66 LTE	1	20 MHz		0.125 W/path, Total: 0.25 W	
	5G NR n66	1	5 MHz		0.125 W/path, Total: 0.25 W	
	5G NR n66	1	10 MHz		0.125 W/path, Total: 0.25 W	
	5G NR n66	1	15 MHz		0.125 W/path, Total: 0.25 W	
	5G NR n66	1	20 MHz		0.125 W/path, Total: 0.25 W	
	B66 LTE + B66 LTE	2	5 MHz + 5 MHz		0.125 W/path, Total: 0.25 W	
	B66 LTE + B66 LTE	2	20 MHz + 5 MHz		0.125 W/path, Total: 0.25 W	
	B66 LTE + B66 LTE	2	20 MHz + 10 MHz		0.125 W/path, Total: 0.25 W	
	5G NR n66 + 5G NR n66	2	5 MHz + 5 MHz		0.125 W/path, Total: 0.25 W	
	5G NR n66 + 5G NR n66	2	20 MHz + 5 MHz		0.125 W/path, Total: 0.25 W	
	5G NR n66 + 5G NR n66	2	20 MHz +10 MHz		0.125 W/path, Total: 0.25 W	
	5G NR n66 + B66 LTE	2	5 MHz + 5 MHz		0.125 W/path, Total: 0.25 W	
	5G NR n66 + B66 LTE	2	20 MHz + 5 MHz		0.125 W/path, Total: 0.25 W	
	5G NR n66 + B66 LTE	2	20 MHz + 10 MHz		0.125 W/path, Total: 0.25 W	
	B66 LTE + 5G NR n66	2	20 MHz + 5 MHz		0.125 W/path, Total: 0.25 W	
	B66 LTE + 5G NR n66	2	20 MHz + 10 MHz		0.125 W/path, Total: 0.25 W	
Frequency Range	Band 13 : 746 MHz ~ 756 MHz Band 66 : 2 110 MHz ~ 2 180 MHz					
Emission Designator	Mode	Bandwidth	Emission Designator			
			QPSK (G7D)	Conducted (W)	16/64/256 QAM (W7D)	Conducted (W)
	B13 LTE	5 MHz	4M51G7D	0.24	4M51W7D	0.24
	B13 LTE	10 MHz	9M01G7D	0.24	9M03W7D	0.24
	5G NR n13	5 MHz	4M50G7D	0.24	4M51W7D	0.24
	5G NR n13	10 MHz	9M31G7D	0.24	9M34W7D	0.25

B66 LTE	5 MHz	4M51G7D	0.24	4M52W7D	0.24
B66 LTE	10 MHz	9M02G7D	0.23	9M04W7D	0.24
B66 LTE	15 MHz	13M5G7D	0.24	13M6W7D	0.24
B66 LTE	20 MHz	18M0G7D	0.24	18M0W7D	0.24
5G NR n66	5 MHz	4M52G7D	0.24	4M51W7D	0.24
5G NR n66	10 MHz	9M35G7D	0.24	9M35W7D	0.24
5G NR n66	15 MHz	14M2G7D	0.24	14M2W7D	0.24
5G NR n66	20 MHz	19M0G7D	0.24	19M1W7D	0.24
B66 LTE + B66 LTE (Contiguous)	5 MHz + 5 MHz	9M48G7D	0.24	9M49W7D	0.24
B66 LTE + B66 LTE (Contiguous)	20 MHz + 5 MHz	23M7G7D	0.24	23M8W7D	0.24
B66 LTE + B66 LTE (Contiguous)	20 MHz + 10 MHz	28M4G7D	0.24	28M6W7D	0.24
5G NR n66 + 5G NR n66 (Contiguous)	5 MHz + 5 MHz	9M47G7D	0.24	9M49W7D	0.24
5G NR n66 + 5G NR n66 (Contiguous)	20 MHz + 5 MHz	24M2G7D	0.24	24M3W7D	0.24
5G NR n66 + 5G NR n66 (Contiguous)	20 MHz + 10 MHz	29M1G7D	0.24	29M1W7D	0.24
5G NR n66 + B66 LTE (Contiguous)	5 MHz + 5 MHz	9M49G7D	0.25	9M50W7D	0.25
5G NR n66 + B66 LTE (Contiguous)	20 MHz + 5 MHz	24M2G7D	0.24	24M2W7D	0.24
5G NR n66 + B66 LTE (Contiguous)	20 MHz + 10 MHz	29M0G7D	0.24	29M0W7D	0.25
B66 LTE + 5G NR n66 (Contiguous)	20 MHz + 5 MHz	23M7G7D	0.24	23M8W7D	0.24
B66 LTE + 5G NR n66 (Contiguous)	20 MHz + 10 MHz	28M6G7D	0.24	28M6W7D	0.24
B66 LTE + B66 LTE (Non-Contiguous)	5 MHz + 5 MHz	9M02G7D	0.23	9M01W7D	0.24
B66 LTE + B66 LTE (Non-Contiguous)	20 MHz + 5 MHz	22M5G7D	0.24	22M6W7D	0.24
B66 LTE + B66 LTE (Non-Contiguous)	20 MHz + 10 MHz	27M0G7D	0.24	27M1W7D	0.24
5G NR n66 + 5G NR n66 (Non-Contiguous)	5 MHz + 5 MHz	8M99G7D	0.24	9M03W7D	0.24
5G NR n66 + 5G NR n66 (Non-Contiguous)	20 MHz + 5 MHz	23M5G7D	0.24	23M6W7D	0.24
5G NR n66 + 5G NR n66 (Non-Contiguous)	20 MHz + 10 MHz	28M3G7D	0.24	28M4W7D	0.24
5G NR n66 + B66 LTE (Non-Contiguous)	5 MHz + 5 MHz	9M00G7D	0.24	9M03W7D	0.25
5G NR n66 + B66 LTE (Non-Contiguous)	20 MHz + 5 MHz	23M5G7D	0.23	23M5W7D	0.24
5G NR n66 + B66 LTE (Non-Contiguous)	20 MHz + 10 MHz	28M0G7D	0.24	28M1W7D	0.24
B66 LTE + 5G NR n66 (Non-Contiguous)	20 MHz + 5 MHz	22M5G7D	0.24	22M5W7D	0.24
B66 LTE + 5G NR n66 (Non-Contiguous)	20 MHz + 10 MHz	27M3G7D	0.24	27M3W7D	0.25

Modulation Type	QPSK, 16QAM, 64QAM, 256QAM
Antenna Specification	Peak Gain: B13: 7.5 dBi B66: 8 dBi Antenna type: Integrated Beam pattern type: Omni

1.3. TEST INFORMATION

FCC Rule Parts	CFR 47 Part 2, Part 27
Measurement standards	ANSI C63.26-2015, KDB 662911 D01 v02r01, KDB 971168 D01 v03r01
Place of Test	HCT CO., LTD. 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA

2. FACILITIES AND ACCREDITATIONS

2.1. FACILITIES

The SAC(Semi-Anechoic Chamber) and conducted measurement facility used to collect the radiated data are located at the 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA.

The site is constructed in conformance with the requirements of ANSI C63.4. (Version :2014) and CISPR Publication 22.

Detailed description of test facility was submitted to the Commission and accepted dated April 02, 2018 (Registration Number: KR0032).

2.2. EQUIPMENT

Radiated emissions are measured with one or more of the following types of Linearly polarized antennas: tuned dipole, bi-conical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

3. TEST SPECIFICATIONS

3.1. STANDARDS

The following tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 2, Part 27

Description	Reference	Results
RF Output Power and PSD	§ 2.1046, § 27.50(b), § 27.50(d)(2)	Compliant
PAPR	§ 27.50(d)(5)	Compliant
Occupied Bandwidth	§ 2.1049	Compliant
Out-of-band Unwanted Emissions	§ 2.1051, § 27.53(c), (f), § 27.53(h)	Compliant
Spurious Unwanted Emissions		Compliant
Radiated Emissions	§ 2.1053, § 27.53(c), § 27.53(h)	Compliant
Frequency Stability	§ 2.1055, § 27.54	Compliant

3.2. ADDITIONAL DESCRIPTIONS ABOUT TEST

- The EUT was operated in a manner representative of the typical usage of the equipment.
- During all testing, system components were manipulated within the confines of typical usage to maximize each emission.
- All LTE modulation types (QPSK, 16QAM, 64QAM, 256QAM) supported by the EUT have been tested.
- The dummy loads were connected to the RF output ports for radiated spurious emission testing.
- The tests results in plots are already including the actual value of loss for the attenuator and cable combination. Please check correction factors below table.

ANT0

Correction factor table			
Frequency (MHz)	Factor (dB)	Frequency (MHz)	Factor (dB)
500	30.409	4 000	33.598
600	30.539	5 000	34.155
700	30.744	6 000	34.747
800	30.815	7 000	35.672
900	30.855	8 000	36.021
1 000	30.869	9 000	37.087
1 100	30.940	10 000	39.721
1 200	31.276	11 000	38.959
1 300	31.323	12 000	39.868
1 400	31.489	13 000	41.343
1 500	31.499	14 000	41.279
1 600	31.648	15 000	41.353
1 700	31.523	16 000	42.032
1 800	31.623	17 000	42.408
1 900	31.725	18 000	42.739
2 000	31.836	19 000	42.530
2 100	31.989	20 000	44.425
2 200	32.046	21 000	44.517
2 300	32.142	22 000	44.144
2 400	32.273	23 000	44.497
2 500	32.361	24 000	46.247
2 600	32.489	25 000	49.764
2 700	32.353	26 000	46.257
2 800	32.406	-	-
2 900	32.674	-	-
3 000	32.969	-	-

ANT1

Correction factor table

Frequency (MHz)	Factor (dB)	Frequency (MHz)	Factor (dB)
500	30.494	4 000	33.593
600	30.622	5 000	34.127
700	30.836	6 000	34.691
800	30.897	7 000	35.599
900	30.933	8 000	35.850
1 000	30.953	9 000	36.931
1 100	31.070	10 000	39.694
1 200	31.401	11 000	39.201
1 300	31.446	12 000	39.884
1 400	31.628	13 000	41.817
1 500	31.633	14 000	40.749
1 600	31.769	15 000	40.529
1 700	31.660	16 000	41.728
1 800	31.760	17 000	41.104
1 900	31.859	18 000	42.201
2 000	31.971	19 000	41.170
2 100	32.084	20 000	43.137
2 200	32.161	21 000	43.402
2 300	32.257	22 000	45.137
2 400	32.292	23 000	43.489
2 500	32.385	24 000	46.028
2 600	32.490	25 000	47.221
2 700	32.384	26 000	44.850
2 800	32.415	-	-
2 900	32.661	-	-
3 000	32.983	-	-

3.3. MAXIMUM MEASUREMENT UNCERTAINTY

Description	Condition	Uncertainty
Radiated Disturbance	9 kHz ~ 30 MHz	± 3.40 dB
	30 MHz ~ 1 GHz	± 4.80 dB
	1 GHz ~ 18 GHz	± 5.70 dB
	18 GHz ~ 40 GHz	± 5.05 dB

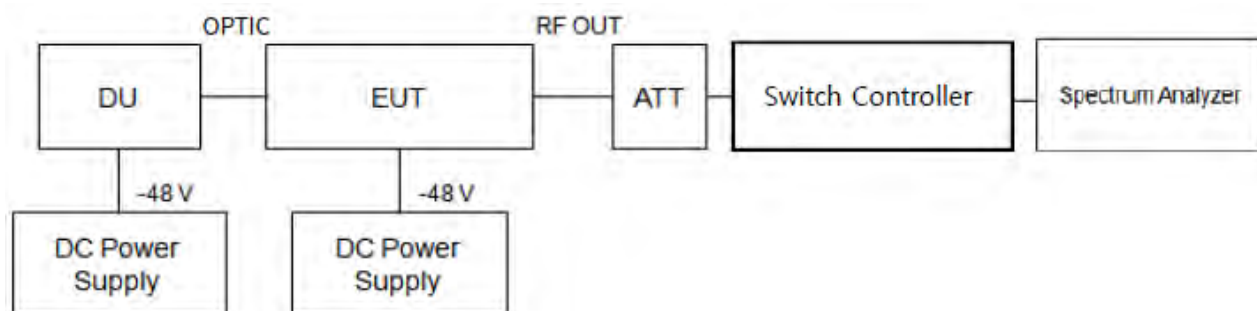
Coverage factor $k=2$, Confidence levels of 95 %

3.4. STANDARDS ENVIRONMENTAL TEST CONDITIONS

Temperature :	+15 °C to +35 °C
Relative humidity:	30 % to 60 %
Air pressure	860 mbar to 1 060 mbar

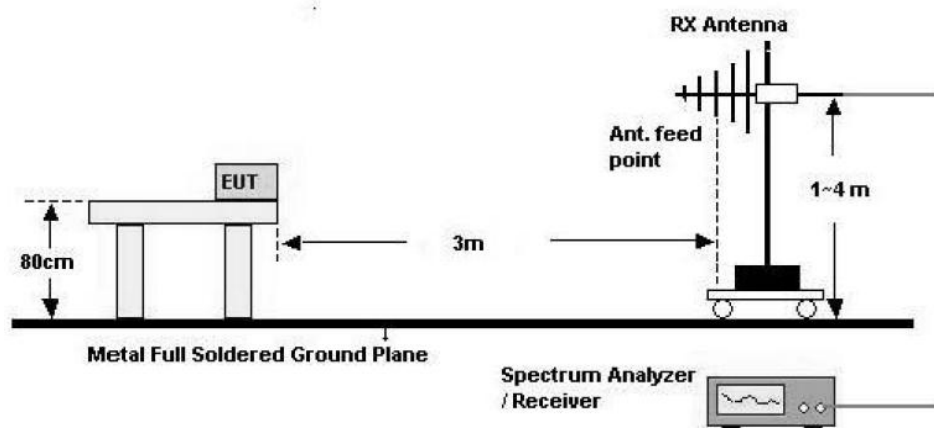
3.5. TEST DIAGRAMS

Conducted Test

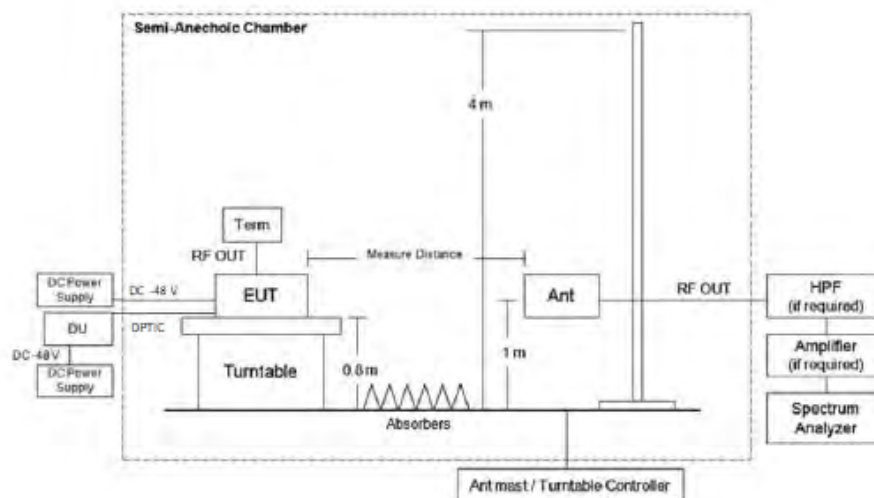


Radiated Test

30 MHz ~ 1 GHz

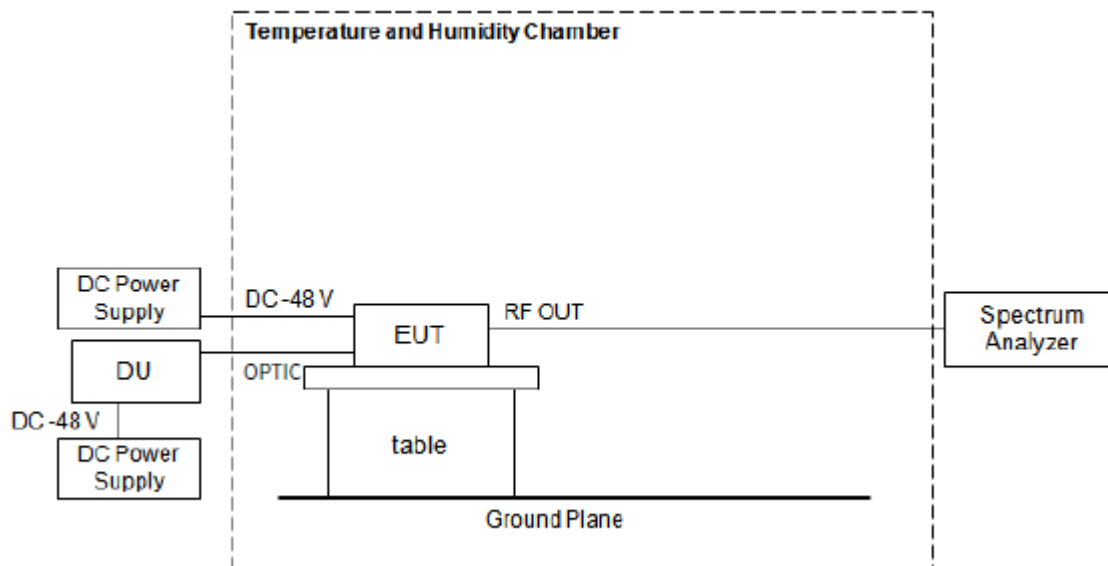


Above 1 GHz



※ EUT position is adopted by placement of floor-standing refer to section 5.5.2.3.2 of ANSI C63.26-2015

Frequency Stability



Note: All modulations(QPSK, 16QAM, 64QAM, 256QAM) were investigated and the worst case configuration channel results are reported.

4. TEST EQUIPMENTS

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
MXA Signal Analyzer	N9020A	Agilent	MY46471250	2022-08-11	Annual
PXA Signal Analyzer	N9030B	Keysight	MY55480110	2022-03-23	Annual
30 dB Attenuator	WA93-30-33	Weinschel Associates	0137	2022-03-30	Annual
30 dB Attenuator	WA93-30-33	Weinschel Associates	0190	2022-03-30	Annual
30 dB Attenuator	67-30-33	Weinschel Associates	CL4337	2022-05-12	Annual
30 dB Attenuator	67-30-33	Weinschel Associates	CL4340	2022-05-12	Annual
DC Power Supply	PWR800L	KIKUSUI	RK000880	2022-07-20	Annual
DC Power Supply	PWR800L	KIKUSUI	LG003309	2022-05-28	Annual
Temperature and Humidity Chamber	NY-THR18750	NANGYEUL CO., LTD.	NY-200912201A	2022-01-14	Annual
Amp & Filter Bank Switch Controller	FBSM-01B	TNM system	TM20090002	N/A	N/A
Controller(Antenna mast & Turn Table)	CO3000	Innco systems	CO3000/1251/48920320/P	N/A	N/A
Antenna Position Tower	MA4640/800-XP-ET	Innco systems	N/A	N/A	N/A
Turn Table	DS2000-S	Innco systems	N/A	N/A	N/A
Turn Table	Turn Table	Ets	N/A	N/A	N/A
Loop Antenna	FMZB 1513	Schwarzbeck	1513-333	2022-03-19	Biennial
Hybrid Antenna	VULB 9168	Schwarzbeck	01039	2022-08-02	Biennial
Horn Antenna	BBHA 9120D	Schwarzbeck	02296	2022-06-28	Biennial
Horn Antenna(15 GHz ~ 40 GHz)	BBHA9170	Schwarzbeck	BBHA9170342	2022-10-13	Biennial
Spectrum Analyzer	FSP40	Rohde & Schwarz	100843	2022-11-08	Annual
HPF(3 ~ 18 GHz) + LNA(0.1 ~ 18 GHz)	FBSR-04C	TNM system	N/A	2022-09-16	Annual
Low Noise Amplifier	LLAU1183540Q	LTC Microwave	100	2022-09-16	Annual
High Pass Filter	WHKX10-900-1000-15000-40SS	Wainwright Instruments	16	2022-08-05	Annual
High Pass Filter	WHKX12-2805-3000-18000-40SS	Wainwright Instruments	45	2022-09-16	Annual
Power Amplifier	CBL18265035	CERNEX	22966	2021-12-04	Annual
Power Amplifier	CBL26405040	CERNEX	25956	2022-03-23	Annual

Note:

- Equipment listed above that calibrated during the testing period was set for test after the calibration.
- Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date, or will be tested after the calibration is completed.

5. TEST RESULT

5.1. RF OUTPUT POWER and PSD

Test Requirements:

§ 2.1046 Measurements required: RF power output.

- (a) For transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in § 2.1033(c)(8). The electrical characteristics of the radio frequency load attached to the output terminals when this test is made shall be stated.
- (b) For single sideband, independent sideband, and single channel, controlled carrier radiotelephone transmitters the procedure specified in paragraph (a) of this section shall be employed and, in addition, the transmitter shall be modulated during the test as specified and applicable in § 2.1046 (b) (1-5). In all tests, the input level of the modulating signal shall be such as to develop rated peak envelope power or carrier power, as appropriate, for the transmitter.
- (c) For measurements conducted pursuant to paragraphs (a) and (b) of this section, all calculations and methods used by the applicant for determining carrier power or peak envelope power, as appropriate, on the basis of measured power in the radio frequency load attached to the transmitter output terminals shall be shown. Under the test conditions specified, no components of the emission spectrum shall exceed the limits specified in the applicable rule parts as necessary for meeting occupied bandwidth or emission limitations.

§ 27.50 Power limits and duty cycle.

- (b) The following power and antenna height limits apply to transmitters operating in the 746-758 MHz, 775-788 MHz and 805-806 MHz bands:
 - (1) Fixed and base stations transmitting a signal in the 757-758 and 775-776 MHz bands must not exceed an effective radiated power (ERP) of 1000 watts and an antenna height of 305 m height above average terrain (HAAT), except that antenna heights greater than 305 m HAAT are permitted if power levels are reduced below 1000 watts ERP in accordance with Table 1 of this section.
 - (2) Fixed and base stations transmitting a signal in the 746-757 MHz and 776-787 MHz bands with an emission bandwidth of 1 MHz or less must not exceed an ERP of 1000 watts and an antenna height of 305 m HAAT, except that antenna heights greater than 305 m HAAT are permitted if power levels are reduced below 1000 watts ERP in accordance with Table 1 of this section.
 - (3) Fixed and base stations located in a county with population density of 100 or fewer persons per square mile, based upon the most recently available population statistics from the Bureau of the Census, and transmitting a signal in the 746-757 MHz and 776-787 MHz bands with an emission bandwidth of 1 MHz or less must not exceed an ERP of 2000 watts and an antenna height of 305 m HAAT, except that antenna heights greater than 305 m HAAT are permitted if power levels are reduced below 2000 watts ERP in accordance with Table 2 of this section.
 - (4) Fixed and base stations transmitting a signal in the 746-757 MHz and 776-787 MHz bands with an emission bandwidth greater than 1 MHz must not exceed an ERP of 1000 watts/MHz and an antenna height of 305 m HAAT, except that

antenna heights greater than 305 m HAAT are permitted if power levels are reduced below 1000 watts/MHz ERP in accordance with Table 3 of this section.

- (5) Fixed and base stations located in a county with population density of 100 or fewer persons per square mile, based upon the most recently available population statistics from the Bureau of the Census, and transmitting a signal in the 746-757 MHz and 776-787 MHz bands with an emission bandwidth greater than 1 MHz must not exceed an ERP of 2000 watts/MHz and an antenna height of 305 m HAAT, except that antenna heights greater than 305 m HAAT are permitted if power levels are reduced below 2000 watts/MHz ERP in accordance with Table 4 of this section.
- (d) The following power and antenna height requirements apply to stations transmitting in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz and 2180-2200 MHz bands:
 - (2) The power of each fixed or base station transmitting in the 1995-2000 MHz, the 2110-2155 MHz 2155-2180 MHz band, or 2180-2200 MHz band and situated in any geographic location other than that described in paragraph (d)(1) of this section is limited to:
 - (ii) An EIRP of 1640 watts/MHz when transmitting with an emission bandwidth greater than 1 MHz.

Test Procedures:

The measurement is performed in accordance with Section 5.2.4.4.1 of ANSI C63.26.

The EUT is considered to transmit continuously if it can be configured to transmit at a burst duty cycle of greater than or equal to 98% throughout the duration of the measurement. If this condition can be achieved, then the following procedure can be used to measure the average output power of the EUT.

- a) Set span to $2 \times$ to $3 \times$ the OBW.
- b) Set RBW = 1% to 5% of the OBW.
- c) Set VBW $\geq 3 \times$ RBW.
- d) Set number of measurement points in sweep $\geq 2 \times$ span / RBW.
- e) Sweep time:
 - 1) Set = auto-couple, or
 - 2) Set $\geq [10 \times (\text{number of points in sweep}) \times (\text{transmission period})]$ for single sweep (automation-compatible) measurement. Transmission period is the on and off time of the transmitter.
- f) Detector = power averaging (rms).
- g) If the EUT can be configured to transmit continuously, then set the trigger to free run.
- h) If the EUT cannot be configured to transmit continuously, then use a sweep trigger with the level set to enable triggering only on full power bursts and configure the EUT to transmit at full power for the entire duration of each sweep. Verify that the sweep time is less than or equal to the transmission burst duration. Time gating can also be used under similar constraints (i.e., configured such that measurement data is collected only during active full-power transmissions).
- i) 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 multiple symbols, 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.
- j) Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band or channel power measurement function, with the band/channel limits set equal to the OBW band edges. If the instrument does not

have a band or channel power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

The measurement is performed in accordance with Section 5.2.4.5 of ANSI C63.26.

Some regulatory requirements specify the RF output power limits in terms of maximum or average PSD, (i.e., the output power or unwanted emissions power limits are defined within a specified reference bandwidth).

When average PSD limits are specified, the same fundamental measurement condition applies as previously discussed (i.e., averaging is to be performed only over durations of active transmissions at maximum output power level). Thus, when performing this measurement, the EUT must either be configured to transmit continuously at full power while the compliance measurement is performed, or else the measurement instrumentation must be configured to acquire data only over durations when the EUT is actively transmitting at full power. In circumstances where neither of these conditions can be realized, then alternative procedures are provided for both constant duty cycle and non-constant duty cycle transmissions.

The PSD is measured following the same procedures described in 5.2.4.4 for measuring the total average power, but with the RBW set to the reference bandwidth specified by the applicable regulatory requirement, and by using the marker function to identify the maximum PSD instead of summing the power across the OBW. If the fundamental measurement condition cannot be realized, then one of the alternative procedures in 5.2.4.4.2 or 5.2.4.4.3 should be selected, based on whether the transmitter duty cycle is constant (variations $\leq \pm 2\%$) or non-constant (variations $> \pm 2\%$), respectively.

Note: The results of the Conducted output power and PSD test shown above the frequency measured values are very small and similar trend for each port, so we are attached only the worst case plot.

Test Results:
Tabular Data of RF output power
B13 LTE 5 MHz 1 Carrier

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	748.50	20.76	0.12
		Middle	751.00	20.73	0.12
		High	753.50	20.69	0.12
	16QAM	Low	748.50	20.74	0.12
		Middle	751.00	20.74	0.12
		High	753.50	20.62	0.12
	64QAM	Low	748.50	20.72	0.12
		Middle	751.00	20.70	0.12
		High	753.50	20.78	0.12
	256QAM	Low	748.50	20.76	0.12
		Middle	751.00	20.80	0.12
		High	753.50	20.78	0.12
1	QPSK	Low	748.50	20.72	0.12
		Middle	751.00	20.80	0.12
		High	753.50	20.79	0.12
	16QAM	Low	748.50	20.73	0.12
		Middle	751.00	20.82	0.12
		High	753.50	20.75	0.12
	64QAM	Low	748.50	20.82	0.12
		Middle	751.00	20.76	0.12
		High	753.50	20.80	0.12
	256QAM	Low	748.50	20.78	0.12
		Middle	751.00	20.82	0.12
		High	753.50	20.73	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
748.50	0.24	0.24	0.24	0.24
751.00	0.24	0.24	0.24	0.24
753.50	0.24	0.23	0.24	0.24

B13 LTE 10 MHz 1 Carrier

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Middle	751.00	20.80	0.12
	16QAM	Middle	751.00	20.85	0.12
	64QAM	Middle	751.00	20.75	0.12
	256QAM	Middle	751.00	20.86	0.12
1	QPSK	Middle	751.00	20.90	0.12
	16QAM	Middle	751.00	20.82	0.12
	64QAM	Middle	751.00	20.87	0.12
	256QAM	Middle	751.00	20.88	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
751.00	0.24	0.24	0.24	0.24

5G NR n13 5 MHz 1 Carrier

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	748.50	20.72	0.12
		Middle	751.00	20.84	0.12
		High	753.50	20.78	0.12
	16QAM	Low	748.50	20.79	0.12
		Middle	751.00	20.83	0.12
		High	753.50	20.74	0.12
	64QAM	Low	748.50	20.71	0.12
		Middle	751.00	20.83	0.12
		High	753.50	20.71	0.12
	256QAM	Low	748.50	20.78	0.12
		Middle	751.00	20.88	0.12
		High	753.50	20.72	0.12
1	QPSK	Low	748.50	20.87	0.12
		Middle	751.00	20.81	0.12
		High	753.50	20.77	0.12
	16QAM	Low	748.50	20.74	0.12
		Middle	751.00	20.87	0.12
		High	753.50	20.78	0.12
	64QAM	Low	748.50	20.69	0.12
		Middle	751.00	20.87	0.12
		High	753.50	20.71	0.12
	256QAM	Low	748.50	20.73	0.12
		Middle	751.00	20.85	0.12
		High	753.50	20.80	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
748.50	0.24	0.24	0.24	0.24
751.00	0.24	0.24	0.24	0.24
753.50	0.24	0.24	0.24	0.24

5G NR n13 10 MHz 1 Carrier

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Middle	751.00	20.84	0.12
	16QAM	Middle	751.00	20.85	0.12
	64QAM	Middle	751.00	20.87	0.12
	256QAM	Middle	751.00	20.76	0.12
1	QPSK	Middle	751.00	20.87	0.12
	16QAM	Middle	751.00	20.93	0.12
	64QAM	Middle	751.00	20.89	0.12
	256QAM	Middle	751.00	20.85	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
751.00	0.24	0.25	0.24	0.24

B66 LTE 5 MHz 1 Carrier

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	2112.50	20.66	0.12
		Middle	2145.00	20.58	0.11
		High	2177.50	20.72	0.12
	16QAM	Low	2112.50	20.67	0.12
		Middle	2145.00	20.66	0.12
		High	2177.50	20.79	0.12
	64QAM	Low	2112.50	20.66	0.12
		Middle	2145.00	20.65	0.12
		High	2177.50	20.87	0.12
	256QAM	Low	2112.50	20.53	0.11
		Middle	2145.00	20.56	0.11
		High	2177.50	20.83	0.12
1	QPSK	Low	2112.50	20.69	0.12
		Middle	2145.00	20.64	0.12
		High	2177.50	20.75	0.12
	16QAM	Low	2112.50	20.64	0.12
		Middle	2145.00	20.57	0.11
		High	2177.50	20.56	0.11
	64QAM	Low	2112.50	20.65	0.12
		Middle	2145.00	20.61	0.12
		High	2177.50	20.73	0.12
	256QAM	Low	2112.50	20.57	0.11
		Middle	2145.00	20.52	0.11
		High	2177.50	20.77	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2112.50	0.23	0.23	0.23	0.23
2145.00	0.23	0.23	0.23	0.23
2177.50	0.24	0.23	0.24	0.24

B66 LTE 10 MHz 1 Carrier

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	2115.00	20.54	0.11
		Middle	2145.00	20.55	0.11
		High	2175.00	20.64	0.12
	16QAM	Low	2115.00	20.67	0.12
		Middle	2145.00	20.55	0.11
		High	2175.00	20.73	0.12
	64QAM	Low	2115.00	20.54	0.11
		Middle	2145.00	20.56	0.11
		High	2175.00	20.75	0.12
	256QAM	Low	2115.00	20.54	0.11
		Middle	2145.00	20.61	0.12
		High	2175.00	20.65	0.12
1	QPSK	Low	2115.00	20.74	0.12
		Middle	2145.00	20.61	0.12
		High	2175.00	20.74	0.12
	16QAM	Low	2115.00	20.67	0.12
		Middle	2145.00	20.58	0.11
		High	2175.00	20.74	0.12
	64QAM	Low	2115.00	20.73	0.12
		Middle	2145.00	20.61	0.11
		High	2175.00	20.76	0.12
	256QAM	Low	2115.00	20.76	0.12
		Middle	2145.00	20.71	0.12
		High	2175.00	20.70	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2115.00	0.23	0.23	0.23	0.23
2145.00	0.23	0.23	0.23	0.23
2175.00	0.23	0.24	0.24	0.23

B66 LTE 15 MHz 1 Carrier

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	2117.50	20.53	0.11
		Middle	2145.00	20.61	0.12
		High	2172.50	20.71	0.12
	16QAM	Low	2117.50	20.57	0.11
		Middle	2145.00	20.53	0.11
		High	2172.50	20.70	0.12
	64QAM	Low	2117.50	20.54	0.11
		Middle	2145.00	20.55	0.11
		High	2172.50	20.62	0.12
	256QAM	Low	2117.50	20.54	0.11
		Middle	2145.00	20.55	0.11
		High	2172.50	20.70	0.12
1	QPSK	Low	2117.50	20.68	0.12
		Middle	2145.00	20.70	0.12
		High	2172.50	20.87	0.12
	16QAM	Low	2117.50	20.55	0.11
		Middle	2145.00	20.54	0.11
		High	2172.50	20.84	0.12
	64QAM	Low	2117.50	20.60	0.11
		Middle	2145.00	20.64	0.12
		High	2172.50	20.88	0.12
	256QAM	Low	2117.50	20.65	0.12
		Middle	2145.00	20.69	0.12
		High	2172.50	20.81	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2117.50	0.23	0.23	0.23	0.23
2145.00	0.23	0.23	0.23	0.23
2172.50	0.24	0.24	0.24	0.24

B66 LTE 20 MHz 1 Carrier

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	2120.00	20.63	0.12
		Middle	2145.00	20.59	0.11
		High	2170.00	20.79	0.12
	16QAM	Low	2120.00	20.62	0.12
		Middle	2145.00	20.62	0.12
		High	2170.00	20.78	0.12
	64QAM	Low	2120.00	20.56	0.11
		Middle	2145.00	20.61	0.12
		High	2170.00	20.69	0.12
	256QAM	Low	2120.00	20.61	0.12
		Middle	2145.00	20.64	0.12
		High	2170.00	20.76	0.12
1	QPSK	Low	2120.00	20.77	0.12
		Middle	2145.00	20.76	0.12
		High	2170.00	20.92	0.12
	16QAM	Low	2120.00	20.75	0.12
		Middle	2145.00	20.78	0.12
		High	2170.00	20.92	0.12
	64QAM	Low	2120.00	20.70	0.12
		Middle	2145.00	20.82	0.12
		High	2170.00	20.87	0.12
	256QAM	Low	2120.00	20.69	0.12
		Middle	2145.00	20.81	0.12
		High	2170.00	20.87	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2120.00	0.23	0.23	0.23	0.23
2145.00	0.23	0.23	0.24	0.24
2170.00	0.24	0.24	0.24	0.24

5G NR n66 5 MHz 1 Carrier

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	2112.50	20.56	0.11
		Middle	2145.00	20.66	0.12
		High	2177.50	20.74	0.12
	16QAM	Low	2112.50	20.62	0.12
		Middle	2145.00	20.73	0.12
		High	2177.50	20.84	0.12
	64QAM	Low	2112.50	20.64	0.12
		Middle	2145.00	20.71	0.12
		High	2177.50	20.83	0.12
	256QAM	Low	2112.50	20.62	0.12
		Middle	2145.00	20.55	0.11
		High	2177.50	20.73	0.12
1	QPSK	Low	2112.50	20.67	0.12
		Middle	2145.00	20.72	0.12
		High	2177.50	20.70	0.12
	16QAM	Low	2112.50	20.67	0.12
		Middle	2145.00	20.62	0.12
		High	2177.50	20.71	0.12
	64QAM	Low	2112.50	20.60	0.11
		Middle	2145.00	20.65	0.12
		High	2177.50	20.77	0.12
	256QAM	Low	2112.50	20.66	0.12
		Middle	2145.00	20.61	0.12
		High	2177.50	20.67	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2112.50	0.23	0.23	0.23	0.23
2145.00	0.23	0.23	0.23	0.23
2177.50	0.24	0.24	0.24	0.24

5G NR n66 10 MHz 1 Carrier

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	2115.00	20.61	0.12
		Middle	2145.00	20.60	0.11
		High	2175.00	20.82	0.12
	16QAM	Low	2115.00	20.60	0.11
		Middle	2145.00	20.60	0.11
		High	2175.00	20.86	0.12
	64QAM	Low	2115.00	20.56	0.11
		Middle	2145.00	20.64	0.12
		High	2175.00	20.82	0.12
	256QAM	Low	2115.00	20.59	0.11
		Middle	2145.00	20.65	0.12
		High	2175.00	20.83	0.12
1	QPSK	Low	2115.00	20.57	0.11
		Middle	2145.00	20.71	0.12
		High	2175.00	20.81	0.12
	16QAM	Low	2115.00	20.63	0.12
		Middle	2145.00	20.59	0.11
		High	2175.00	20.85	0.12
	64QAM	Low	2115.00	20.55	0.11
		Middle	2145.00	20.62	0.12
		High	2175.00	20.85	0.12
	256QAM	Low	2115.00	20.56	0.11
		Middle	2145.00	20.54	0.11
		High	2175.00	20.86	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2115.00	0.23	0.23	0.23	0.23
2145.00	0.23	0.23	0.23	0.23
2175.00	0.24	0.24	0.24	0.24

5G NR n66 15 MHz 1 Carrier

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	2117.50	20.66	0.12
		Middle	2145.00	20.65	0.12
		High	2172.50	20.82	0.12
	16QAM	Low	2117.50	20.69	0.12
		Middle	2145.00	20.68	0.12
		High	2172.50	20.76	0.12
	64QAM	Low	2117.50	20.64	0.12
		Middle	2145.00	20.61	0.12
		High	2172.50	20.88	0.12
	256QAM	Low	2117.50	20.63	0.12
		Middle	2145.00	20.61	0.12
		High	2172.50	20.80	0.12
1	QPSK	Low	2117.50	20.68	0.12
		Middle	2145.00	20.66	0.12
		High	2172.50	20.77	0.12
	16QAM	Low	2117.50	20.66	0.12
		Middle	2145.00	20.67	0.12
		High	2172.50	20.84	0.12
	64QAM	Low	2117.50	20.60	0.11
		Middle	2145.00	20.63	0.12
		High	2172.50	20.78	0.12
	256QAM	Low	2117.50	20.61	0.12
		Middle	2145.00	20.72	0.12
		High	2172.50	20.81	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2117.50	0.23	0.23	0.23	0.23
2145.00	0.23	0.23	0.23	0.23
2172.50	0.24	0.24	0.24	0.24

5G NR n66 20 MHz 1 Carrier

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	2120.00	20.65	0.12
		Middle	2145.00	20.65	0.12
		High	2170.00	20.67	0.12
	16QAM	Low	2120.00	20.66	0.12
		Middle	2145.00	20.53	0.11
		High	2170.00	20.67	0.12
	64QAM	Low	2120.00	20.68	0.12
		Middle	2145.00	20.55	0.11
		High	2170.00	20.68	0.12
	256QAM	Low	2120.00	20.67	0.12
		Middle	2145.00	20.58	0.11
		High	2170.00	20.70	0.12
1	QPSK	Low	2120.00	20.71	0.12
		Middle	2145.00	20.76	0.12
		High	2170.00	20.80	0.12
	16QAM	Low	2120.00	20.70	0.12
		Middle	2145.00	20.64	0.12
		High	2170.00	20.76	0.12
	64QAM	Low	2120.00	20.65	0.12
		Middle	2145.00	20.62	0.12
		High	2170.00	20.84	0.12
	256QAM	Low	2120.00	20.72	0.12
		Middle	2145.00	20.62	0.12
		High	2170.00	20.83	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2120.00	0.23	0.23	0.23	0.23
2145.00	0.24	0.23	0.23	0.23
2170.00	0.24	0.24	0.24	0.24

Tabular Data of RF Contiguous output power

B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	2115.00	20.67	0.12
		Middle	2145.00	20.62	0.12
		High	2175.00	20.70	0.12
	16QAM	Low	2115.00	20.68	0.12
		Middle	2145.00	20.67	0.12
		High	2175.00	20.75	0.12
	64QAM	Low	2115.00	20.62	0.12
		Middle	2145.00	20.61	0.12
		High	2175.00	20.77	0.12
	256QAM	Low	2115.00	20.63	0.12
		Middle	2145.00	20.64	0.12
		High	2175.00	20.71	0.12
1	QPSK	Low	2115.00	20.81	0.12
		Middle	2145.00	20.83	0.12
		High	2175.00	20.89	0.12
	16QAM	Low	2115.00	20.82	0.12
		Middle	2145.00	20.81	0.12
		High	2175.00	20.86	0.12
	64QAM	Low	2115.00	20.83	0.12
		Middle	2145.00	20.80	0.12
		High	2175.00	20.92	0.12
	256QAM	Low	2115.00	20.85	0.12
		Middle	2145.00	20.77	0.12
		High	2175.00	20.89	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2115.00	0.24	0.24	0.24	0.24
2145.00	0.24	0.24	0.24	0.24
2175.00	0.24	0.24	0.24	0.24

B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	2122.50	20.61	0.12
		Middle	2145.00	20.63	0.12
		High	2167.50	20.70	0.12
	16QAM	Low	2122.50	20.57	0.11
		Middle	2145.00	20.60	0.11
		High	2167.50	20.71	0.12
	64QAM	Low	2122.50	20.58	0.11
		Middle	2145.00	20.57	0.11
		High	2167.50	20.65	0.12
	256QAM	Low	2122.50	20.59	0.11
		Middle	2145.00	20.61	0.12
		High	2167.50	20.75	0.12
1	QPSK	Low	2122.50	20.71	0.12
		Middle	2145.00	20.76	0.12
		High	2167.50	20.85	0.12
	16QAM	Low	2122.50	20.71	0.12
		Middle	2145.00	20.75	0.12
		High	2167.50	20.83	0.12
	64QAM	Low	2122.50	20.72	0.12
		Middle	2145.00	20.76	0.12
		High	2167.50	20.83	0.12
	256QAM	Low	2122.50	20.71	0.12
		Middle	2145.00	20.74	0.12
		High	2167.50	20.84	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2122.50	0.23	0.23	0.23	0.23
2145.00	0.23	0.23	0.23	0.23
2167.50	0.24	0.24	0.24	0.24

B66 LTE 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	2125.00	20.62	0.12
		Middle	2145.00	20.60	0.11
		High	2165.00	20.80	0.12
	16QAM	Low	2125.00	20.61	0.12
		Middle	2145.00	20.67	0.12
		High	2165.00	20.72	0.12
	64QAM	Low	2125.00	20.67	0.12
		Middle	2145.00	20.62	0.12
		High	2165.00	20.85	0.12
	256QAM	Low	2125.00	20.63	0.12
		Middle	2145.00	20.67	0.12
		High	2165.00	20.80	0.12
1	QPSK	Low	2125.00	20.67	0.12
		Middle	2145.00	20.74	0.12
		High	2165.00	20.94	0.12
	16QAM	Low	2125.00	20.77	0.12
		Middle	2145.00	20.79	0.12
		High	2165.00	20.87	0.12
	64QAM	Low	2125.00	20.77	0.12
		Middle	2145.00	20.75	0.12
		High	2165.00	20.87	0.12
	256QAM	Low	2125.00	20.80	0.12
		Middle	2145.00	20.80	0.12
		High	2165.00	20.91	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2125.00	0.23	0.23	0.24	0.24
2145.00	0.23	0.24	0.23	0.24
2165.00	0.24	0.24	0.24	0.24

5G NR n66 5 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	2115.00	20.66	0.12
		Middle	2145.00	20.61	0.11
		High	2175.00	20.66	0.12
	16QAM	Low	2115.00	20.68	0.12
		Middle	2145.00	20.59	0.11
		High	2175.00	20.74	0.12
	64QAM	Low	2115.00	20.67	0.12
		Middle	2145.00	20.59	0.11
		High	2175.00	20.75	0.12
	256QAM	Low	2115.00	20.69	0.12
		Middle	2145.00	20.56	0.11
		High	2175.00	20.77	0.12
1	QPSK	Low	2115.00	20.92	0.12
		Middle	2145.00	20.66	0.12
		High	2175.00	20.90	0.12
	16QAM	Low	2115.00	20.94	0.12
		Middle	2145.00	20.74	0.12
		High	2175.00	20.88	0.12
	64QAM	Low	2115.00	20.84	0.12
		Middle	2145.00	20.63	0.12
		High	2175.00	20.86	0.12
	256QAM	Low	2115.00	20.84	0.12
		Middle	2145.00	20.70	0.12
		High	2175.00	20.93	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2115.00	0.24	0.24	0.24	0.24
2145.00	0.23	0.23	0.23	0.23
2175.00	0.24	0.24	0.24	0.24

5G NR n66 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	2122.50	20.56	0.11
		Middle	2145.00	20.63	0.12
		High	2167.50	20.74	0.12
	16QAM	Low	2122.50	20.57	0.11
		Middle	2145.00	20.67	0.12
		High	2167.50	20.75	0.12
	64QAM	Low	2122.50	20.54	0.11
		Middle	2145.00	20.62	0.12
		High	2167.50	20.72	0.12
	256QAM	Low	2122.50	20.53	0.11
		Middle	2145.00	20.66	0.12
		High	2167.50	20.74	0.12
1	QPSK	Low	2122.50	20.66	0.12
		Middle	2145.00	20.77	0.12
		High	2167.50	20.85	0.12
	16QAM	Low	2122.50	20.65	0.12
		Middle	2145.00	20.76	0.12
		High	2167.50	20.87	0.12
	64QAM	Low	2122.50	20.65	0.12
		Middle	2145.00	20.64	0.12
		High	2167.50	20.86	0.12
	256QAM	Low	2122.50	20.67	0.12
		Middle	2145.00	20.79	0.12
		High	2167.50	20.95	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2122.50	0.23	0.23	0.23	0.23
2145.00	0.23	0.24	0.23	0.24
2167.50	0.24	0.24	0.24	0.24

5G NR n66 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	2125.00	20.63	0.12
		Middle	2145.00	20.57	0.11
		High	2165.00	20.84	0.12
	16QAM	Low	2125.00	20.60	0.11
		Middle	2145.00	20.59	0.11
		High	2165.00	20.77	0.12
	64QAM	Low	2125.00	20.61	0.11
		Middle	2145.00	20.62	0.12
		High	2165.00	20.74	0.12
	256QAM	Low	2125.00	20.57	0.11
		Middle	2145.00	20.62	0.12
		High	2165.00	20.76	0.12
1	QPSK	Low	2125.00	20.71	0.12
		Middle	2145.00	20.72	0.12
		High	2165.00	20.91	0.12
	16QAM	Low	2125.00	20.70	0.12
		Middle	2145.00	20.72	0.12
		High	2165.00	20.89	0.12
	64QAM	Low	2125.00	20.73	0.12
		Middle	2145.00	20.67	0.12
		High	2165.00	20.89	0.12
	256QAM	Low	2125.00	20.70	0.12
		Middle	2145.00	20.75	0.12
		High	2165.00	20.90	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2125.00	0.23	0.23	0.23	0.23
2145.00	0.23	0.23	0.23	0.23
2165.00	0.24	0.24	0.24	0.24

5G NR n66 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	2115.00	20.71	0.12
		Middle	2145.00	20.72	0.12
		High	2175.00	20.86	0.12
	16QAM	Low	2115.00	20.67	0.12
		Middle	2145.00	20.72	0.12
		High	2175.00	20.92	0.12
	64QAM	Low	2115.00	20.63	0.12
		Middle	2145.00	20.67	0.12
		High	2175.00	20.83	0.12
	256QAM	Low	2115.00	20.65	0.12
		Middle	2145.00	20.75	0.12
		High	2175.00	20.82	0.12
1	QPSK	Low	2115.00	20.86	0.12
		Middle	2145.00	20.92	0.12
		High	2175.00	20.93	0.12
	16QAM	Low	2115.00	20.86	0.12
		Middle	2145.00	20.83	0.12
		High	2175.00	20.91	0.12
	64QAM	Low	2115.00	20.90	0.12
		Middle	2145.00	20.78	0.12
		High	2175.00	20.93	0.12
	256QAM	Low	2115.00	20.88	0.12
		Middle	2145.00	20.83	0.12
		High	2175.00	20.99	0.13

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2115.00	0.24	0.24	0.24	0.24
2145.00	0.24	0.24	0.24	0.24
2175.00	0.25	0.25	0.24	0.25

5G NR n66 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	2122.50	20.56	0.11
		Middle	2145.00	20.62	0.12
		High	2167.50	20.72	0.12
	16QAM	Low	2122.50	20.63	0.12
		Middle	2145.00	20.66	0.12
		High	2167.50	20.73	0.12
	64QAM	Low	2122.50	20.57	0.11
		Middle	2145.00	20.54	0.11
		High	2167.50	20.68	0.12
	256QAM	Low	2122.50	20.59	0.11
		Middle	2145.00	20.55	0.11
		High	2167.50	20.75	0.12
1	QPSK	Low	2122.50	20.62	0.12
		Middle	2145.00	20.68	0.12
		High	2167.50	20.78	0.12
	16QAM	Low	2122.50	20.67	0.12
		Middle	2145.00	20.67	0.12
		High	2167.50	20.84	0.12
	64QAM	Low	2122.50	20.60	0.11
		Middle	2145.00	20.70	0.12
		High	2167.50	20.88	0.12
	256QAM	Low	2122.50	20.70	0.12
		Middle	2145.00	20.67	0.12
		High	2167.50	20.84	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2122.50	0.23	0.23	0.23	0.23
2145.00	0.23	0.23	0.23	0.23
2167.50	0.24	0.24	0.24	0.24

5G NR n66 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	2125.00	20.65	0.12
		Middle	2145.00	20.67	0.12
		High	2165.00	20.79	0.12
	16QAM	Low	2125.00	20.57	0.11
		Middle	2145.00	20.63	0.12
		High	2165.00	20.77	0.12
	64QAM	Low	2125.00	20.64	0.12
		Middle	2145.00	20.67	0.12
		High	2165.00	20.79	0.12
	256QAM	Low	2125.00	20.64	0.12
		Middle	2145.00	20.67	0.12
		High	2165.00	20.81	0.12
1	QPSK	Low	2125.00	20.78	0.12
		Middle	2145.00	20.75	0.12
		High	2165.00	20.87	0.12
	16QAM	Low	2125.00	20.76	0.12
		Middle	2145.00	20.79	0.12
		High	2165.00	20.88	0.12
	64QAM	Low	2125.00	20.79	0.12
		Middle	2145.00	20.76	0.12
		High	2165.00	20.92	0.12
	256QAM	Low	2125.00	20.76	0.12
		Middle	2145.00	20.74	0.12
		High	2165.00	20.96	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2125.00	0.24	0.23	0.24	0.24
2145.00	0.24	0.24	0.24	0.24
2165.00	0.24	0.24	0.24	0.25

B66 LTE 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	2122.50	20.65	0.12
		Middle	2145.00	20.65	0.12
		High	2167.50	20.83	0.12
	16QAM	Low	2122.50	20.64	0.12
		Middle	2145.00	20.63	0.12
		High	2167.50	20.77	0.12
	64QAM	Low	2122.50	20.60	0.11
		Middle	2145.00	20.66	0.12
		High	2167.50	20.75	0.12
	256QAM	Low	2122.50	20.58	0.11
		Middle	2145.00	20.68	0.12
		High	2167.50	20.76	0.12
1	QPSK	Low	2122.50	20.70	0.12
		Middle	2145.00	20.72	0.12
		High	2167.50	20.89	0.12
	16QAM	Low	2122.50	20.69	0.12
		Middle	2145.00	20.75	0.12
		High	2167.50	20.90	0.12
	64QAM	Low	2122.50	20.72	0.12
		Middle	2145.00	20.74	0.12
		High	2167.50	20.86	0.12
	256QAM	Low	2122.50	20.67	0.12
		Middle	2145.00	20.78	0.12
		High	2167.50	20.88	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2122.50	0.23	0.23	0.23	0.23
2145.00	0.23	0.23	0.24	0.24
2167.50	0.24	0.24	0.24	0.24

B66 LTE 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	2125.00	20.63	0.12
		Middle	2145.00	20.81	0.12
		High	2165.00	20.75	0.12
	16QAM	Low	2125.00	20.60	0.11
		Middle	2145.00	20.67	0.12
		High	2165.00	20.76	0.12
	64QAM	Low	2125.00	20.61	0.12
		Middle	2145.00	20.66	0.12
		High	2165.00	20.70	0.12
	256QAM	Low	2125.00	20.61	0.12
		Middle	2145.00	20.64	0.12
		High	2165.00	20.75	0.12
1	QPSK	Low	2125.00	20.79	0.12
		Middle	2145.00	20.81	0.12
		High	2165.00	20.86	0.12
	16QAM	Low	2125.00	20.72	0.12
		Middle	2145.00	20.78	0.12
		High	2165.00	20.89	0.12
	64QAM	Low	2125.00	20.77	0.12
		Middle	2145.00	20.73	0.12
		High	2165.00	20.86	0.12
	256QAM	Low	2125.00	20.77	0.12
		Middle	2145.00	20.77	0.12
		High	2165.00	20.87	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2125.00	0.24	0.23	0.23	0.23
2145.00	0.24	0.24	0.23	0.24
2165.00	0.24	0.24	0.24	0.24

Tabular Data of RF Non-Contiguous output power
B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod	B66 LTE 5 MHz		B66 LTE 5 MHz		Summation Value (dBm)	Calculated (W)
		Frequency (MHz)	Measured Value (dBm)	Frequency (MHz)	Measured Value (dBm)		
0	QPSK	2112.50	17.52	2177.50	17.55	20.55	0.11
	16QAM	2112.50	17.59	2177.50	17.65	20.63	0.12
	64QAM	2112.50	17.60	2177.50	17.69	20.66	0.12
	256QAM	2112.50	17.54	2177.50	17.58	20.57	0.11
1	QPSK	2112.50	17.70	2177.50	17.73	20.73	0.12
	16QAM	2112.50	17.73	2177.50	17.82	20.79	0.12
	64QAM	2112.50	17.75	2177.50	17.76	20.77	0.12
	256QAM	2112.50	17.72	2177.50	17.68	20.71	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2112.50 + 2177.50	0.23	0.24	0.24	0.23

B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod	B66 LTE 20 MHz		B66 LTE 5 MHz		Summation Value (dBm)	Calculated (W)
		Frequency (MHz)	Measured Value (dBm)	Frequency (MHz)	Measured Value (dBm)		
0	QPSK	2120.00	19.68	2177.50	13.74	20.67	0.12
	16QAM	2120.00	19.70	2177.50	13.59	20.65	0.12
	64QAM	2120.00	19.60	2177.50	13.70	20.59	0.11
	256QAM	2120.00	19.67	2177.50	13.62	20.64	0.12
1	QPSK	2120.00	19.85	2177.50	13.83	20.82	0.12
	16QAM	2120.00	19.82	2177.50	13.74	20.78	0.12
	64QAM	2120.00	19.74	2177.50	13.83	20.73	0.12
	256QAM	2120.00	19.73	2177.50	13.77	20.71	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2120.00 + 2177.50	0.24	0.24	0.24	0.24

B66 LTE 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier]

Ant.	Mod	B66 LTE 20 MHz		B66 LTE 10 MHz		Summation Value (dBm)	Calculated (W)
		Frequency (MHz)	Measured Value (dBm)	Frequency (MHz)	Measured Value (dBm)		
0	QPSK	2120.00	18.94	2175.00	16.02	20.73	0.12
	16QAM	2120.00	18.90	2175.00	16.05	20.71	0.12
	64QAM	2120.00	18.85	2175.00	16.01	20.67	0.12
	256QAM	2120.00	18.87	2175.00	16.02	20.69	0.12
1	QPSK	2120.00	19.05	2175.00	16.16	20.85	0.12
	16QAM	2120.00	19.03	2175.00	16.16	20.84	0.12
	64QAM	2120.00	18.99	2175.00	16.08	20.79	0.12
	256QAM	2120.00	19.05	2175.00	16.08	20.83	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2120.00 + 2175.00	0.24	0.24	0.24	0.24

5G NR n66 5 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod	5G NR n66 5 MHz		5G NR n66 5 MHz		Summation Value (dBm)	Calculated (W)
		Frequency (MHz)	Measured Value (dBm)	Frequency (MHz)	Measured Value (dBm)		
0	QPSK	2112.50	17.58	2177.50	17.65	20.63	0.12
	16QAM	2112.50	17.57	2177.50	17.70	20.65	0.12
	64QAM	2112.50	17.53	2177.50	17.74	20.65	0.12
	256QAM	2112.50	17.55	2177.50	17.85	20.71	0.12
1	QPSK	2112.50	17.79	2177.50	17.83	20.82	0.12
	16QAM	2112.50	17.68	2177.50	17.89	20.80	0.12
	64QAM	2112.50	17.65	2177.50	17.76	20.72	0.12
	256QAM	2112.50	17.67	2177.50	17.77	20.73	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2112.50 + 2177.50	0.24	0.24	0.24	0.24

5G NR n66 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod	5G NR n66 20 MHz		5G NR n66 5 MHz		Summation Value (dBm)	Calculated (W)
		Frequency (MHz)	Measured Value (dBm)	Frequency (MHz)	Measured Value (dBm)		
0	QPSK	2120.00	19.64	2177.50	13.64	20.61	0.12
	16QAM	2120.00	19.64	2177.50	13.70	20.63	0.12
	64QAM	2120.00	19.63	2177.50	13.74	20.63	0.12
	256QAM	2120.00	19.67	2177.50	13.68	20.65	0.12
1	QPSK	2120.00	19.80	2177.50	13.74	20.76	0.12
	16QAM	2120.00	19.79	2177.50	13.83	20.77	0.12
	64QAM	2120.00	19.78	2177.50	13.71	20.74	0.12
	256QAM	2120.00	19.79	2177.50	13.79	20.77	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2120.00 + 2177.50	0.24	0.24	0.24	0.24

5G NR n66 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier]

Ant.	Mod	5G NR n66 20 MHz		5G NR n66 10 MHz		Summation Value (dBm)	Calculated (W)
		Frequency (MHz)	Measured Value (dBm)	Frequency (MHz)	Measured Value (dBm)		
0	QPSK	2120.00	18.94	2175.00	16.10	20.76	0.12
	16QAM	2120.00	18.98	2175.00	15.96	20.74	0.12
	64QAM	2120.00	18.88	2175.00	16.03	20.69	0.12
	256QAM	2120.00	18.88	2175.00	16.01	20.69	0.12
1	QPSK	2120.00	19.06	2175.00	16.14	20.85	0.12
	16QAM	2120.00	19.04	2175.00	16.13	20.84	0.12
	64QAM	2120.00	18.97	2175.00	16.22	20.82	0.12
	256QAM	2120.00	19.09	2175.00	16.22	20.90	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2120.00 + 2175.00	0.24	0.24	0.24	0.24

5G NR n66 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod	5G NR n66 5 MHz		B66 LTE 5 MHz		Summation Value (dBm)	Calculated (W)
		Frequency (MHz)	Measured Value (dBm)	Frequency (MHz)	Measured Value (dBm)		
0	QPSK	2112.50	17.69	2177.50	17.79	20.75	0.12
	16QAM	2112.50	17.66	2177.50	17.87	20.78	0.12
	64QAM	2112.50	17.69	2177.50	17.87	20.79	0.12
	256QAM	2112.50	17.67	2177.50	17.74	20.72	0.12
1	QPSK	2112.50	17.78	2177.50	17.95	20.88	0.12
	16QAM	2112.50	17.89	2177.50	18.00	20.96	0.12
	64QAM	2112.50	17.87	2177.50	18.00	20.95	0.12
	256QAM	2112.50	17.84	2177.50	17.98	20.92	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2112.50 + 2177.50	0.24	0.25	0.25	0.24

5G NR n66 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod	5G NR n66 20 MHz		B66 LTE 5 MHz		Summation Value (dBm)	Calculated (W)
		Frequency (MHz)	Measured Value (dBm)	Frequency (MHz)	Measured Value (dBm)		
0	QPSK	2120.00	19.63	2177.50	13.65	20.61	0.11
	16QAM	2120.00	19.66	2177.50	13.70	20.64	0.12
	64QAM	2120.00	19.68	2177.50	13.72	20.66	0.12
	256QAM	2120.00	19.69	2177.50	13.72	20.67	0.12
1	QPSK	2120.00	19.73	2177.50	13.71	20.70	0.12
	16QAM	2120.00	19.79	2177.50	13.80	20.76	0.12
	64QAM	2120.00	19.75	2177.50	13.92	20.76	0.12
	256QAM	2120.00	19.79	2177.50	13.82	20.77	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2120.00 + 2177.50	0.23	0.24	0.24	0.24

5G NR n66 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier]

Ant.	Mod	5G NR n66 20 MHz		B66 LTE 10 MHz		Summation Value (dBm)	Calculated (W)
		Frequency (MHz)	Measured Value (dBm)	Frequency (MHz)	Measured Value (dBm)		
0	QPSK	2120.00	18.87	2175.00	16.15	20.73	0.12
	16QAM	2120.00	19.03	2175.00	16.04	20.80	0.12
	64QAM	2120.00	18.99	2175.00	16.04	20.77	0.12
	256QAM	2120.00	18.91	2175.00	16.09	20.74	0.12
1	QPSK	2120.00	19.04	2175.00	16.18	20.85	0.12
	16QAM	2120.00	19.02	2175.00	16.24	20.86	0.12
	64QAM	2120.00	19.02	2175.00	16.30	20.88	0.12
	256QAM	2120.00	19.14	2175.00	16.22	20.93	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2120.00 + 2175.00	0.24	0.24	0.24	0.24

B66 LTE 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod	B66 LTE 20 MHz		5G NR n66 5 MHz		Summation Value (dBm)	Calculated (W)
		Frequency (MHz)	Measured Value (dBm)	Frequency (MHz)	Measured Value (dBm)		
0	QPSK	2120.00	19.73	2177.50	13.74	20.71	0.12
	16QAM	2120.00	19.72	2177.50	13.82	20.71	0.12
	64QAM	2120.00	19.73	2177.50	13.69	20.69	0.12
	256QAM	2120.00	19.74	2177.50	13.77	20.72	0.12
1	QPSK	2120.00	19.84	2177.50	13.77	20.79	0.12
	16QAM	2120.00	19.86	2177.50	13.82	20.83	0.12
	64QAM	2120.00	19.88	2177.50	13.78	20.83	0.12
	256QAM	2120.00	19.82	2177.50	13.91	20.82	0.12

Sum Data of Port 0 and Port 1

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
1932.50 + 1945.00 + 1987.50	107.71	108.44	107.97	108.22

B66 LTE 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier]

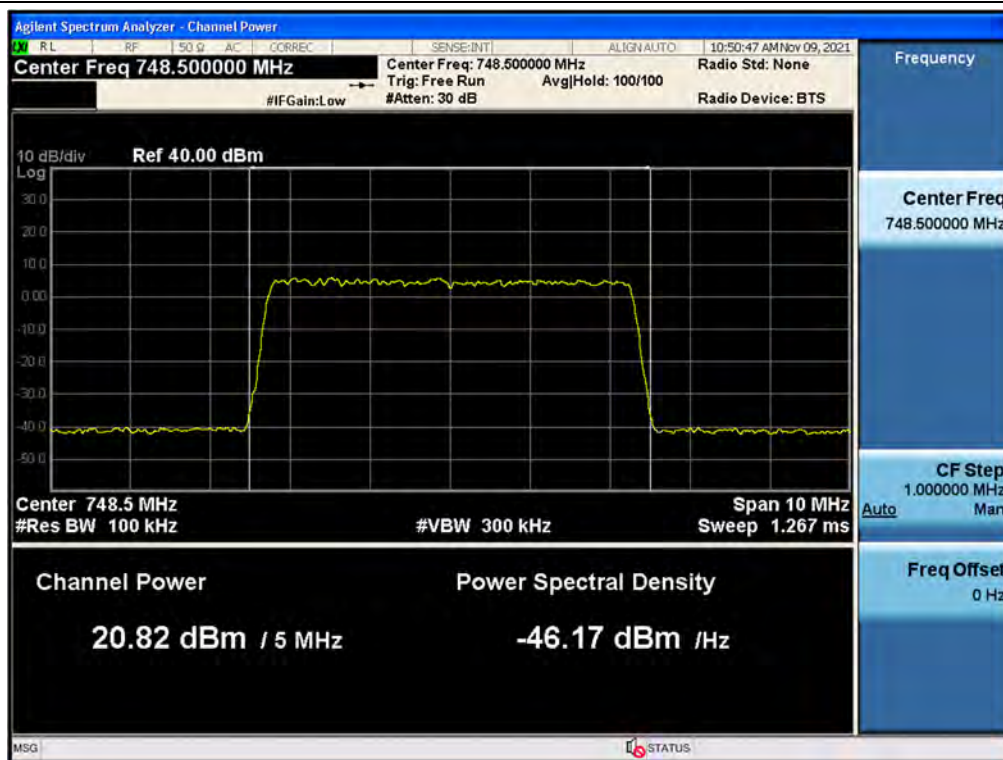
Ant.	Mod	B66 LTE 20 MHz		B66 LTE 20 MHz		Summation Value (dBm)	Calculated (W)
		Frequency (MHz)	Measured Value (dBm)	Frequency (MHz)	Measured Value (dBm)		
0	QPSK	2120.00	18.92	2175.00	16.00	20.71	0.12
	16QAM	2120.00	18.94	2175.00	16.02	20.73	0.12
	64QAM	2120.00	18.96	2175.00	16.06	20.76	0.12
	256QAM	2120.00	18.98	2175.00	16.08	20.78	0.12
1	QPSK	2120.00	19.11	2175.00	16.20	20.91	0.12
	16QAM	2120.00	19.09	2175.00	16.20	20.89	0.12
	64QAM	2120.00	19.07	2175.00	16.16	20.86	0.12
	256QAM	2120.00	19.11	2175.00	16.21	20.91	0.12

Sum Data of Port 0 and Port 1

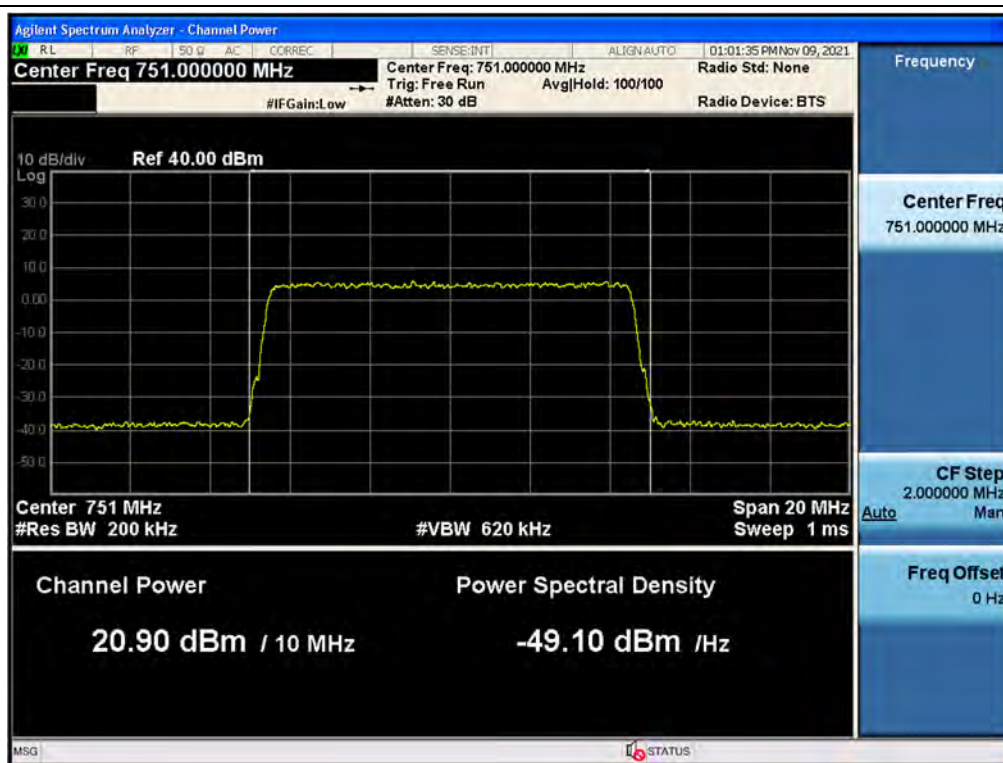
Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2120.00 + 2175.00	0.24	0.24	0.24	0.25

Plot Data of RF Output Power

Antenna 1 / B13 LTE 5 MHz 1 Carrier / 64QAM / Low



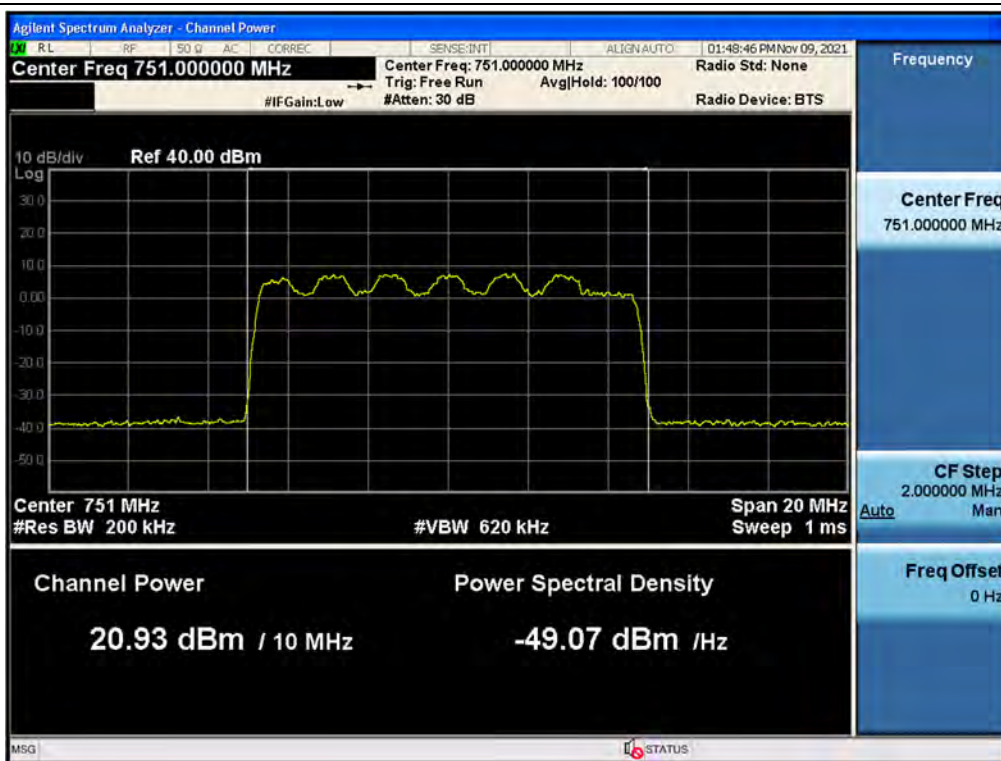
Antenna 1 / B13 LTE 10 MHz 1 Carrier / QPSK / Middle



Antenna 0 / 5G NR n13 5 MHz 1 Carrier / 256QAM / Middle



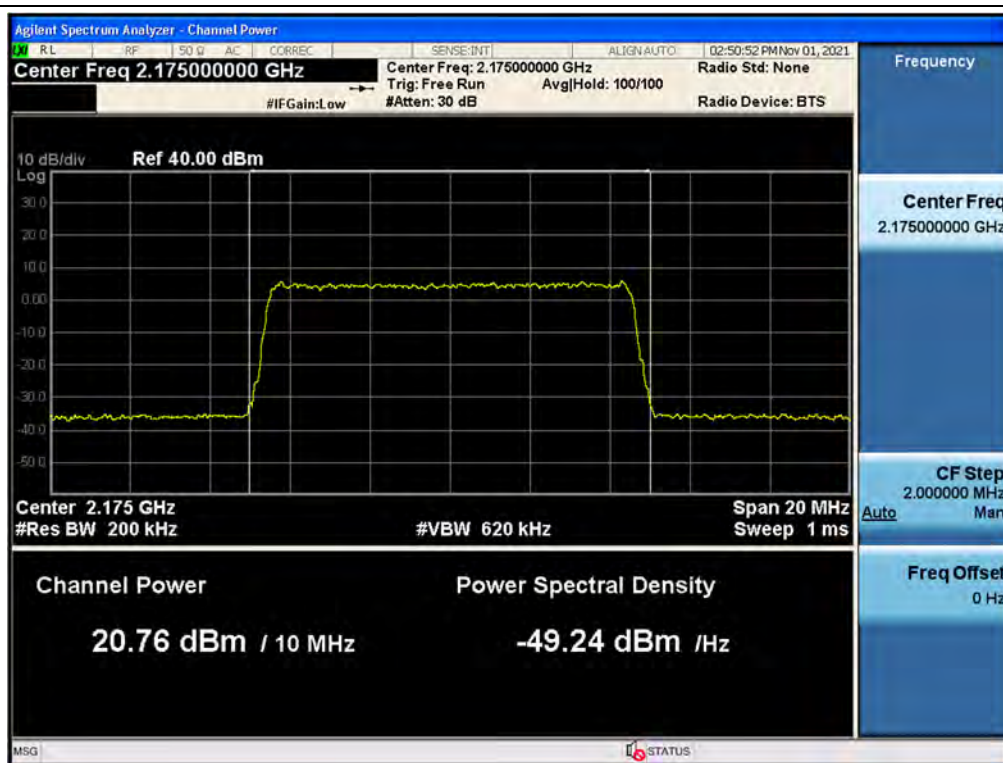
Antenna 1 / 5G NR n13 10 MHz 1 Carrier / 16QAM / Middle



Antenna 0 / B66 LTE 5 MHz 1 Carrier / 64QAM / High



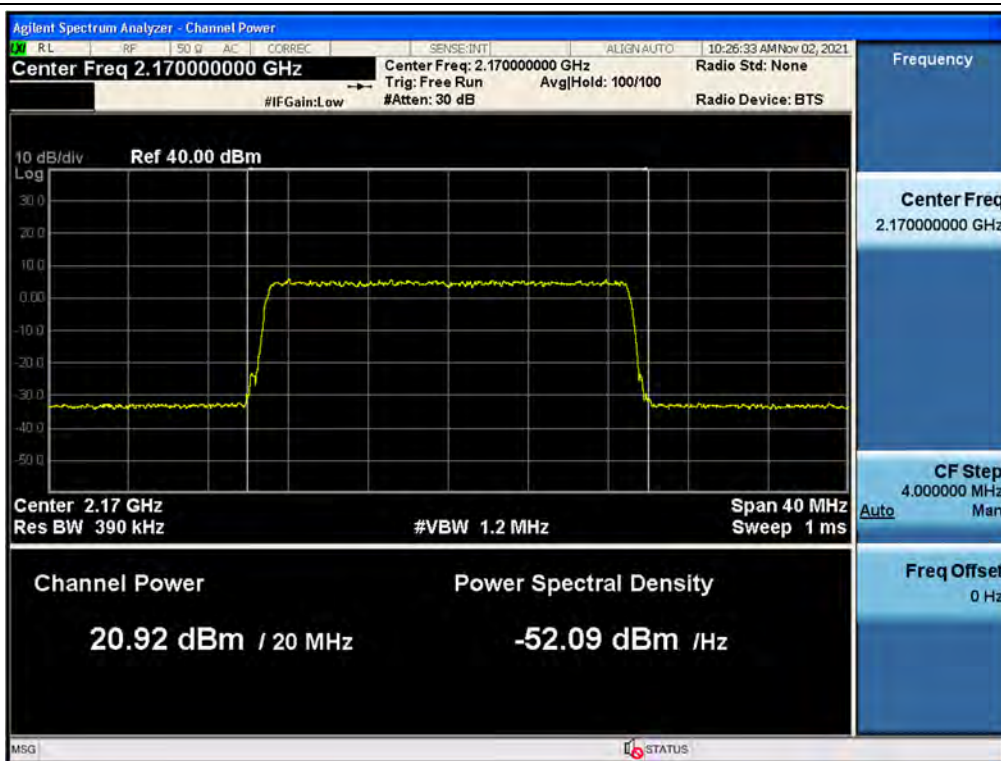
Antenna 1 / B66 LTE 10 MHz 1 Carrier / 64QAM / High



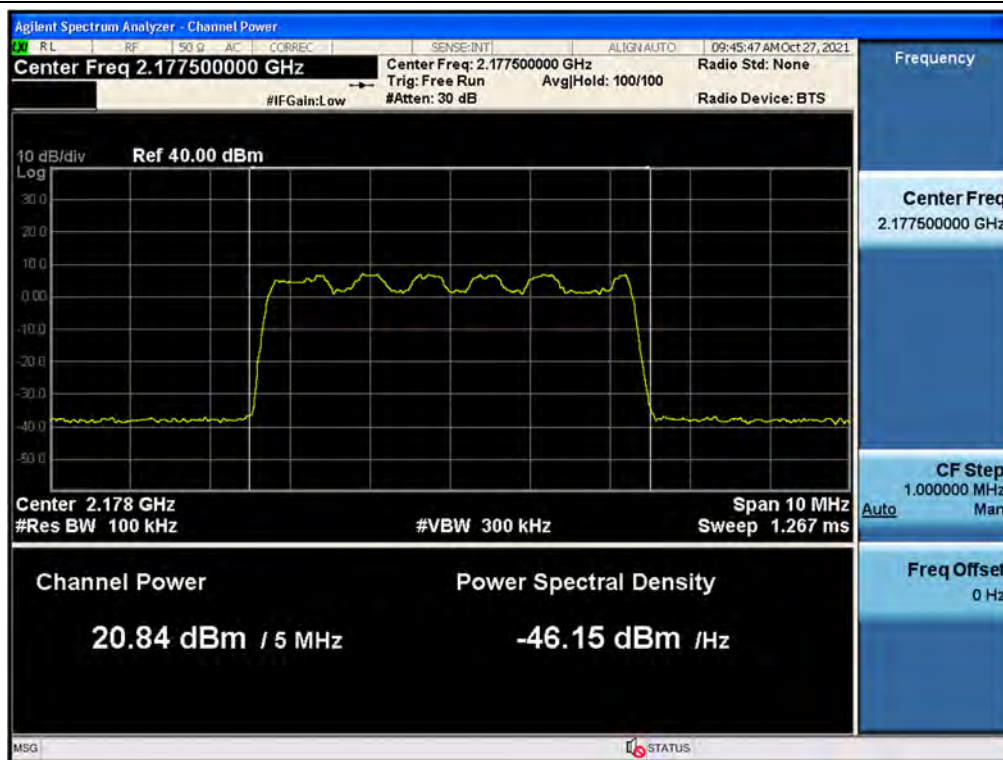
Antenna 1 / B66 LTE 15 MHz 1 Carrier / 64QAM / High



Antenna 1 / B66 LTE 20 MHz 1 Carrier / QPSK / High



Antenna 0 / 5G NR n66 5 MHz 1 Carrier / 16QAM / High



Antenna 1 / 5G NR n66 10 MHz 1 Carrier / 256QAM / High



Antenna 0 / 5G NR n66 15 MHz 1 Carrier / 64QAM / High



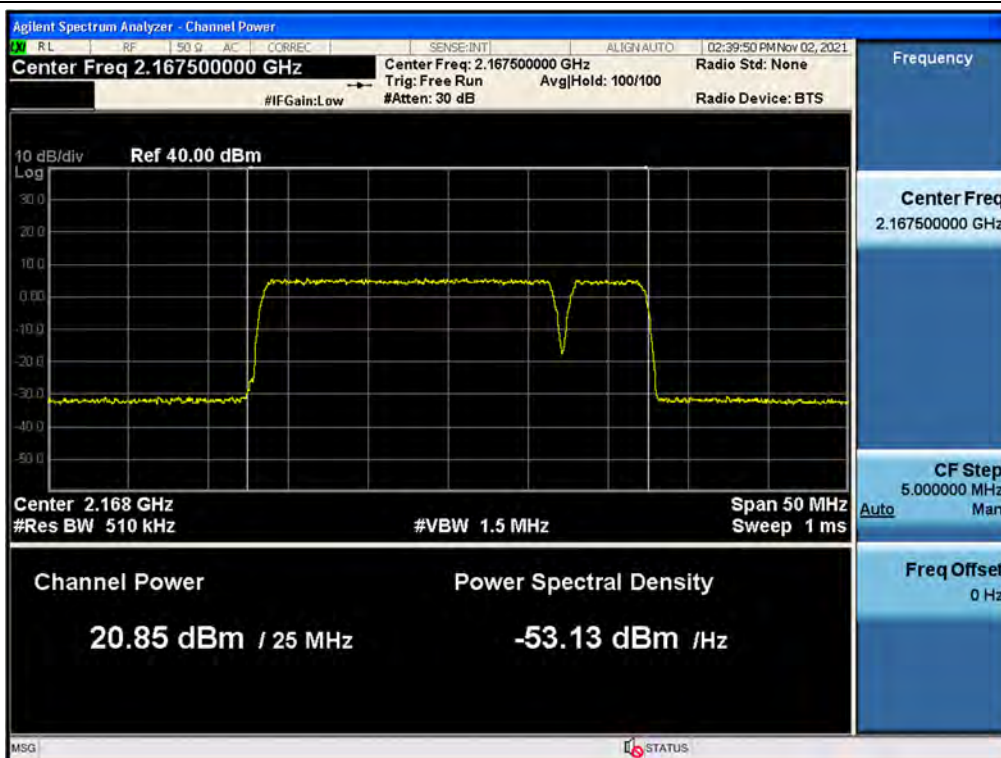
Antenna 1 / 5G NR n66 20 MHz 1 Carrier / 64QAM / High



Antenna 1 / B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Contiguous / 64QAM / High



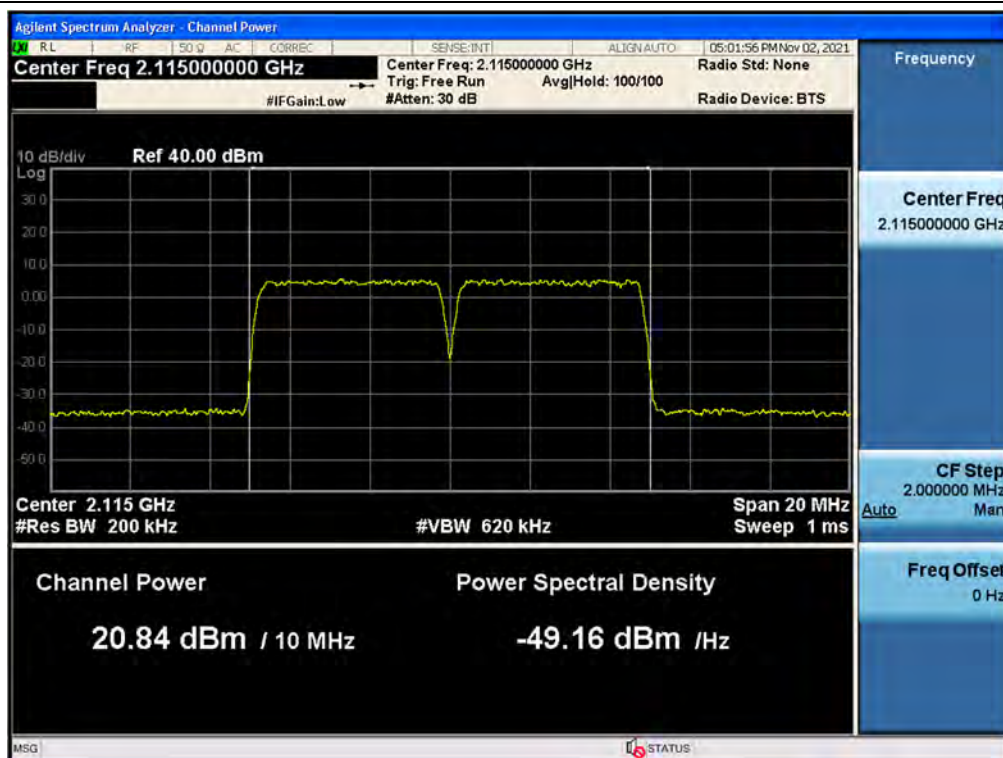
Antenna 1 / B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Contiguous / QPSK / High



Antenna 1 / B66 LTE 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier] / Contiguous / QPSK / High



Antenna 1 / 5G NR n66 5 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier] / Contiguous / 256QAM / Low



Antenna 1 / 5G NR n66 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier] / Contiguous / 256QAM / High



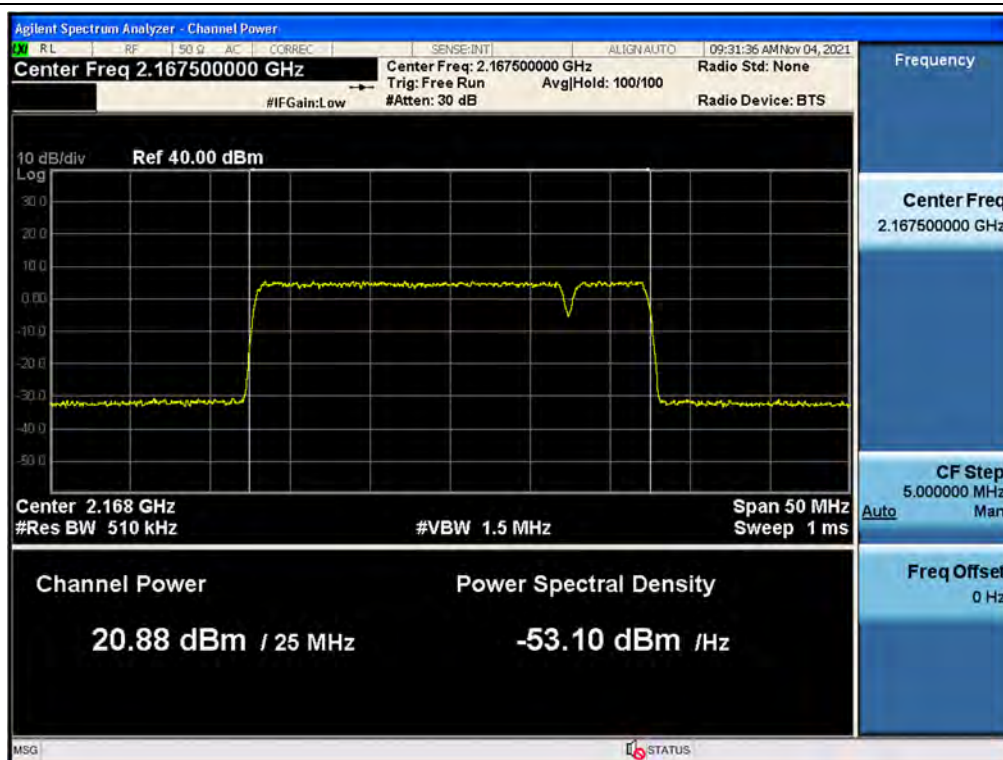
Antenna 1 / 5G NR n66 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier] / Contiguous / QPSK / High



Antenna 1 / 5G NR n66 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Contiguous / 256QAM / High



Antenna 1 / 5G NR n66 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Contiguous / 64QAM / High



Antenna 1 / 5G NR n66 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier] / Contiguous / 256QAM / High



Antenna 1 / B66 LTE 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier] / Contiguous / 16QAM / High



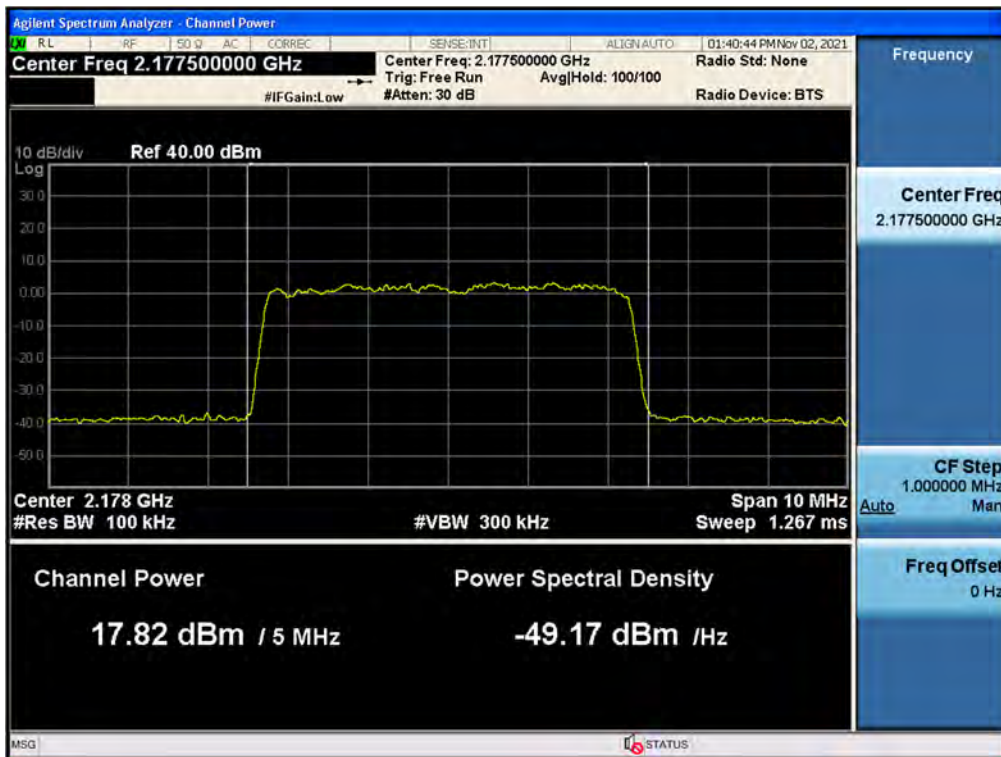
Antenna 1 / B66 LTE 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier] / Contiguous / 16QAM / High



Antenna 1 / B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 5 MHz / 16QAM / Low



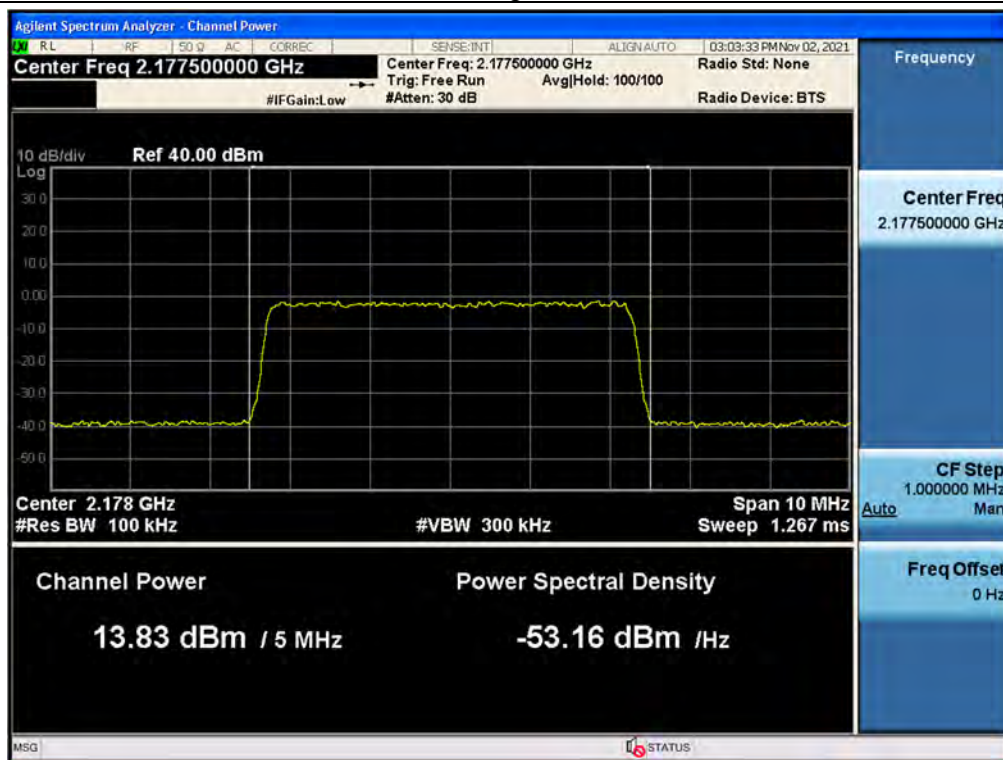
Antenna 1 / B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 5 MHz / 16QAM / High



Antenna 1 / B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 20 MHz / QPSK / Low



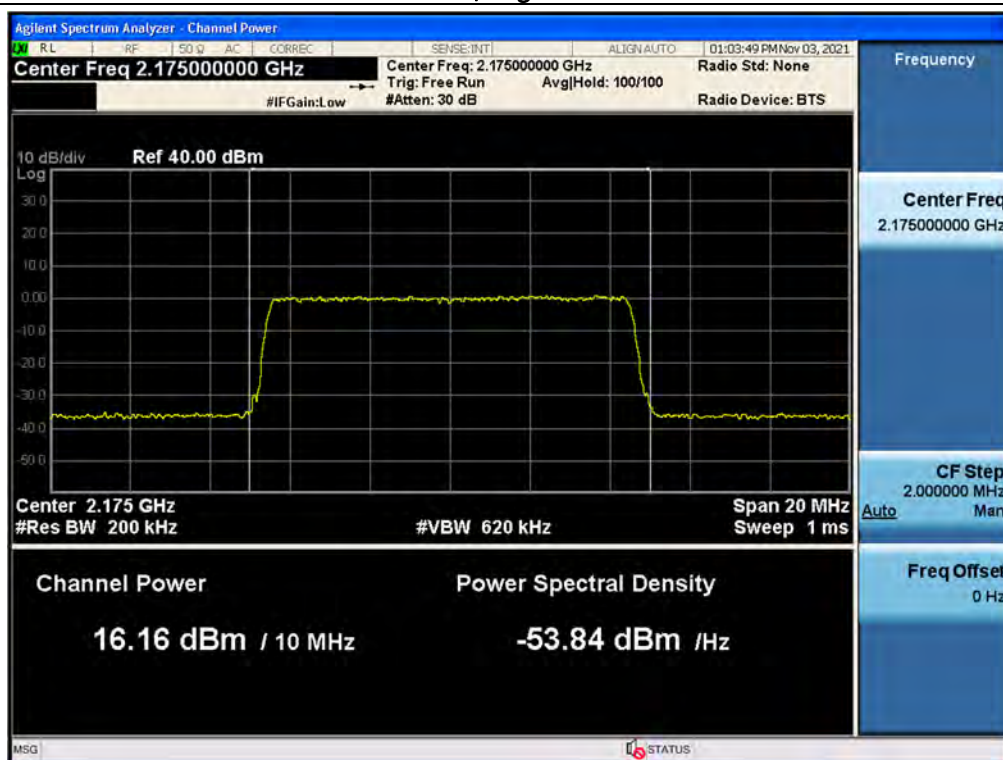
Antenna 1 / B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 5 MHz / QPSK / High



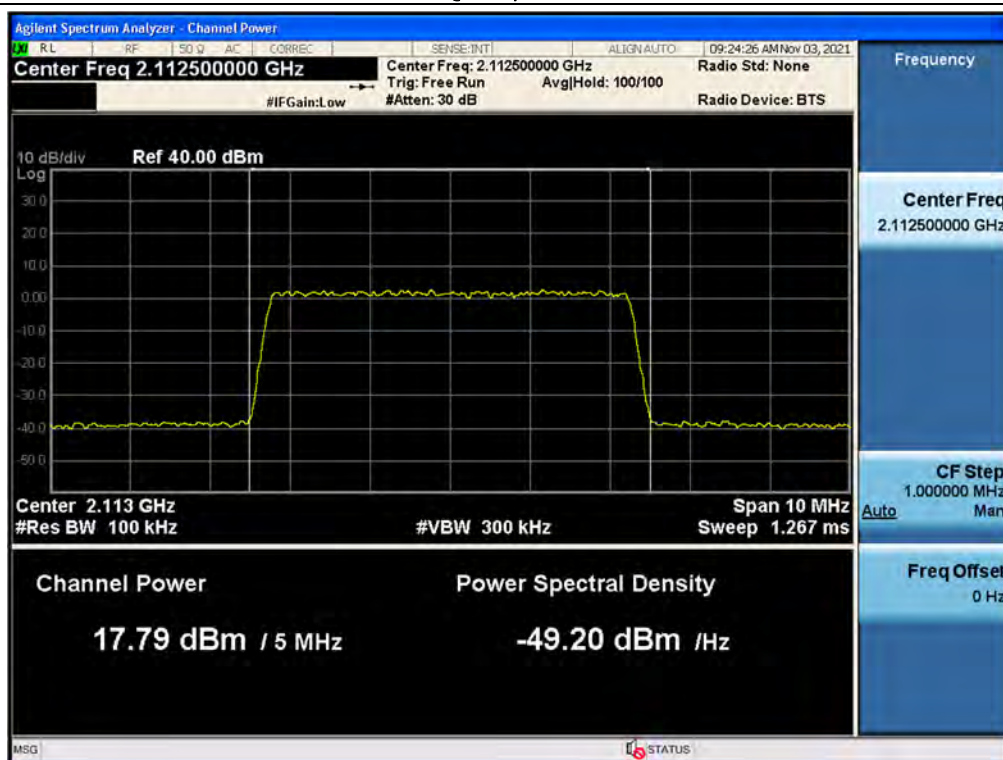
Antenna 1 / B66 LTE 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 20 MHz / QPSK / Low



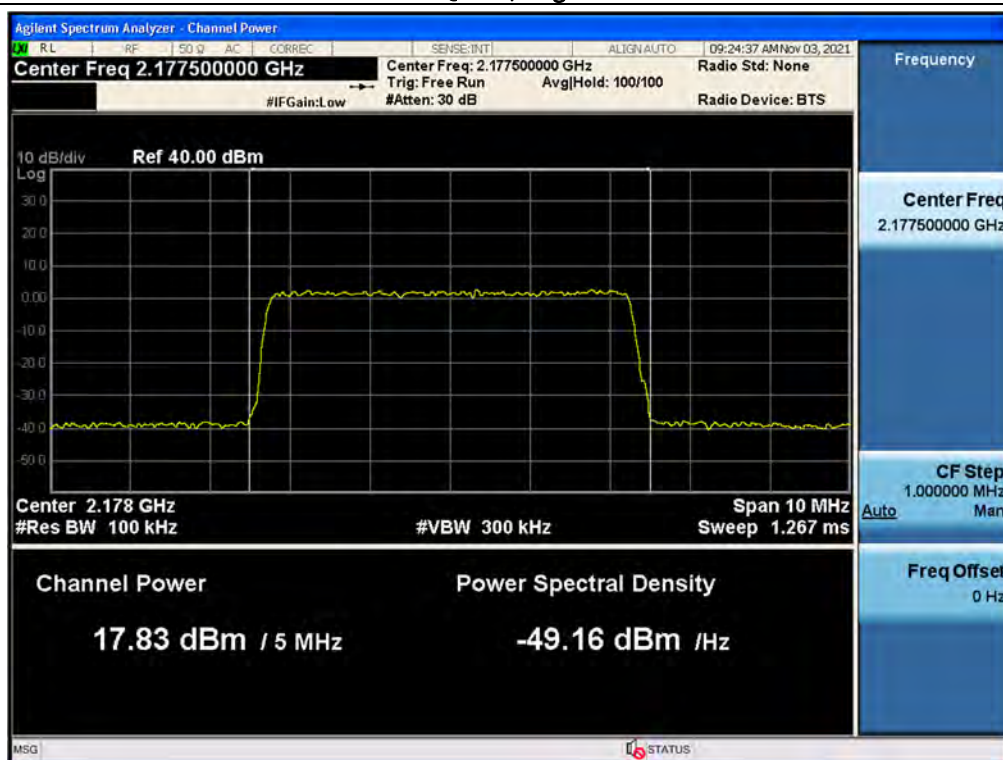
Antenna 1 / B66 LTE 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 10 MHz / QPSK / High



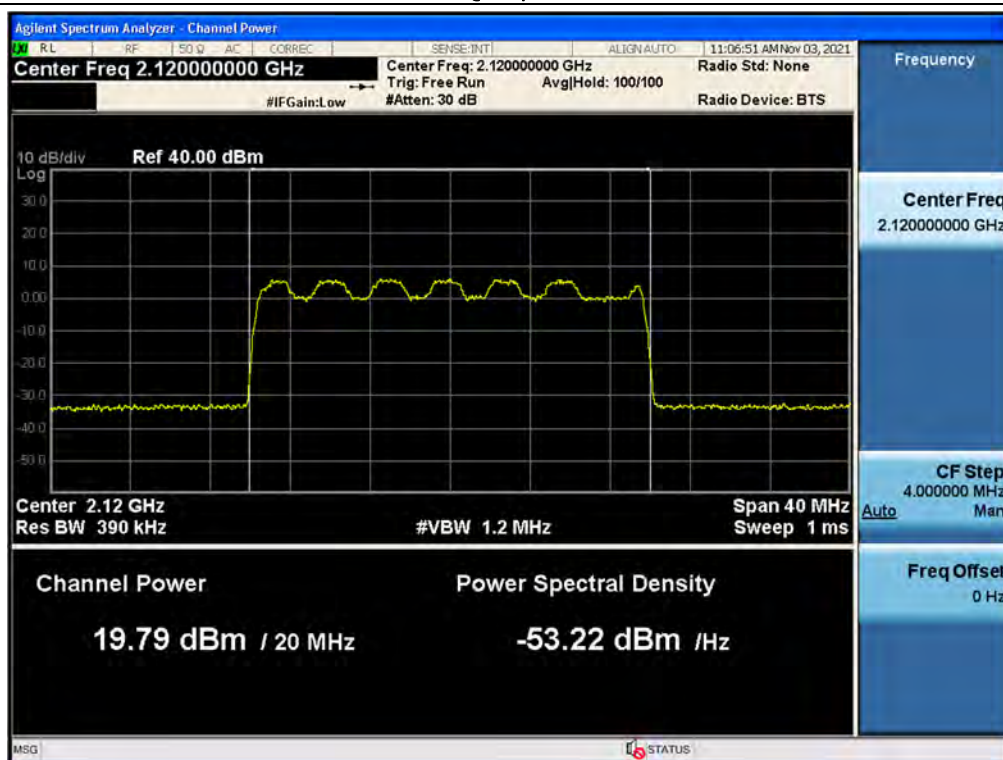
Antenna 1 / 5G NR n66 5 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 5 MHz / QPSK / Low



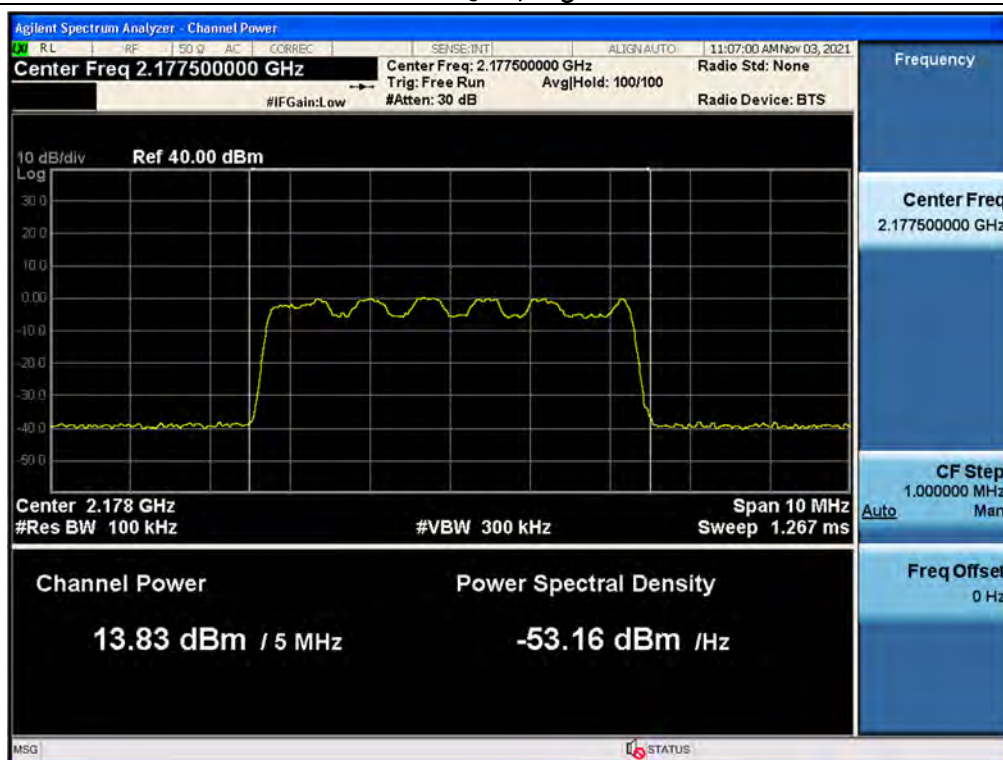
Antenna 1 / 5G NR n66 5 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 5 MHz / QPSK / High



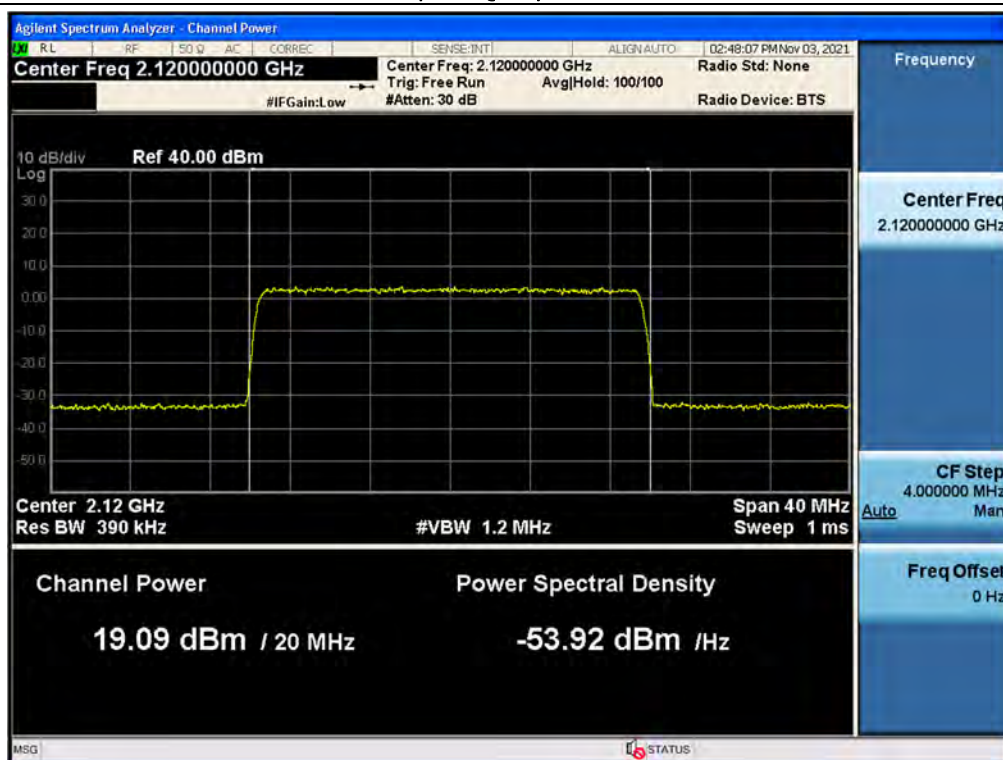
Antenna 1 / 5G NR n66 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 20 MHz / 16QAM / Low



Antenna 1 / 5G NR n66 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 5 MHz / 16QAM / High



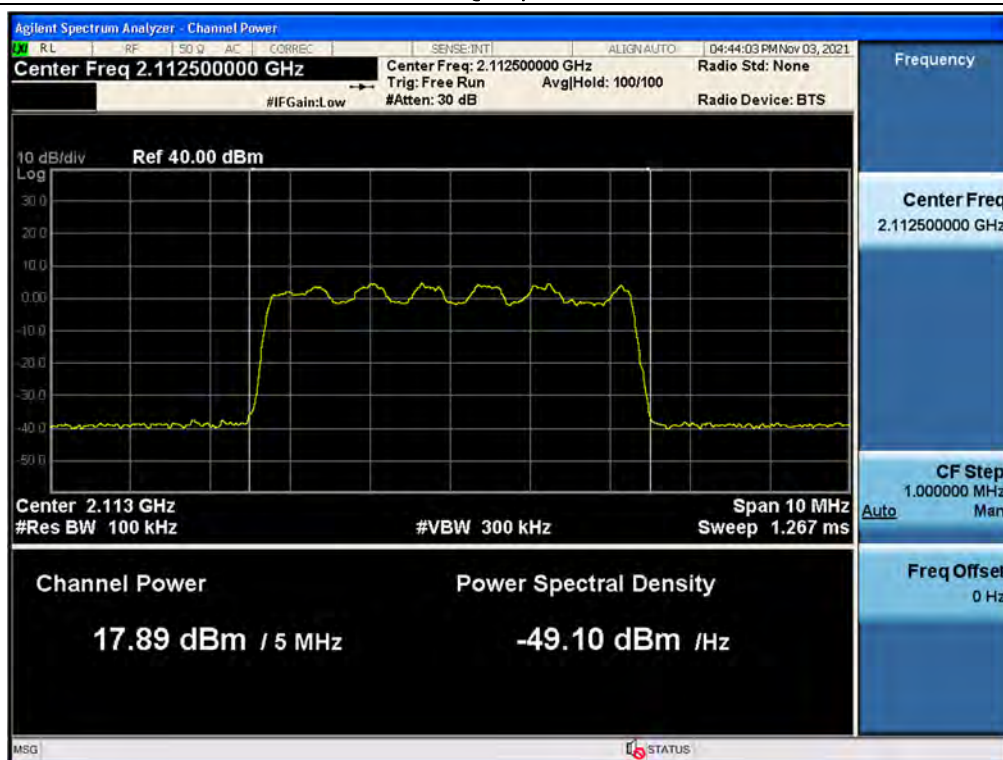
Antenna 1 / 5G NR n66 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 20 MHz / 256QAM / Low



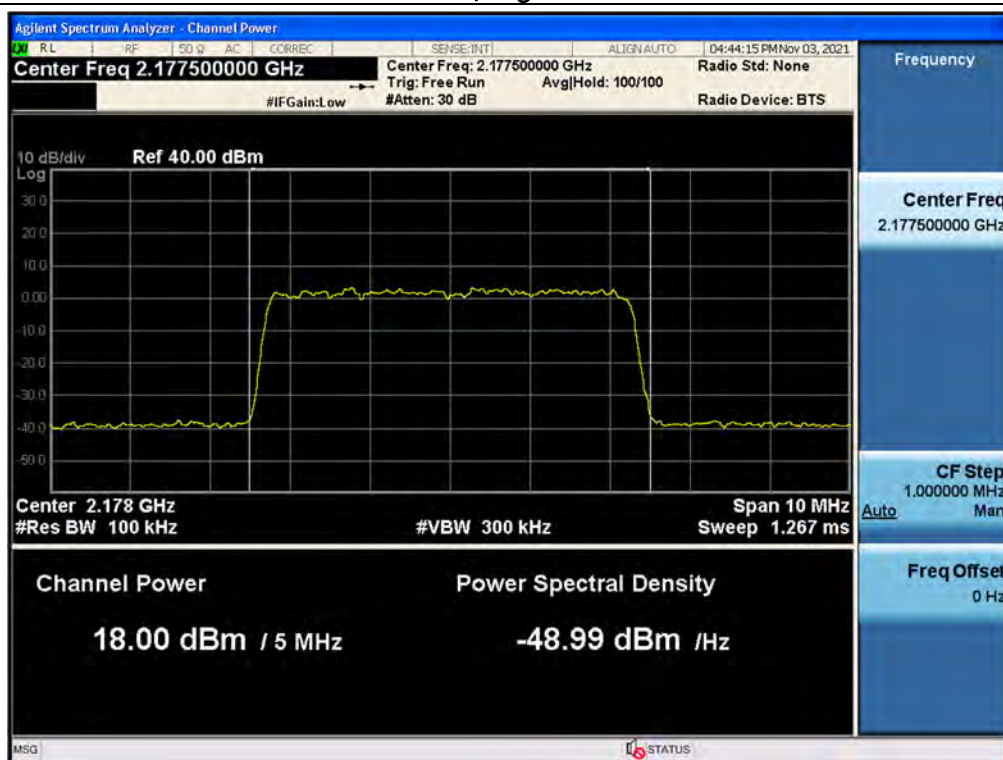
Antenna 1 / 5G NR n66 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 10 MHz / 256QAM / High



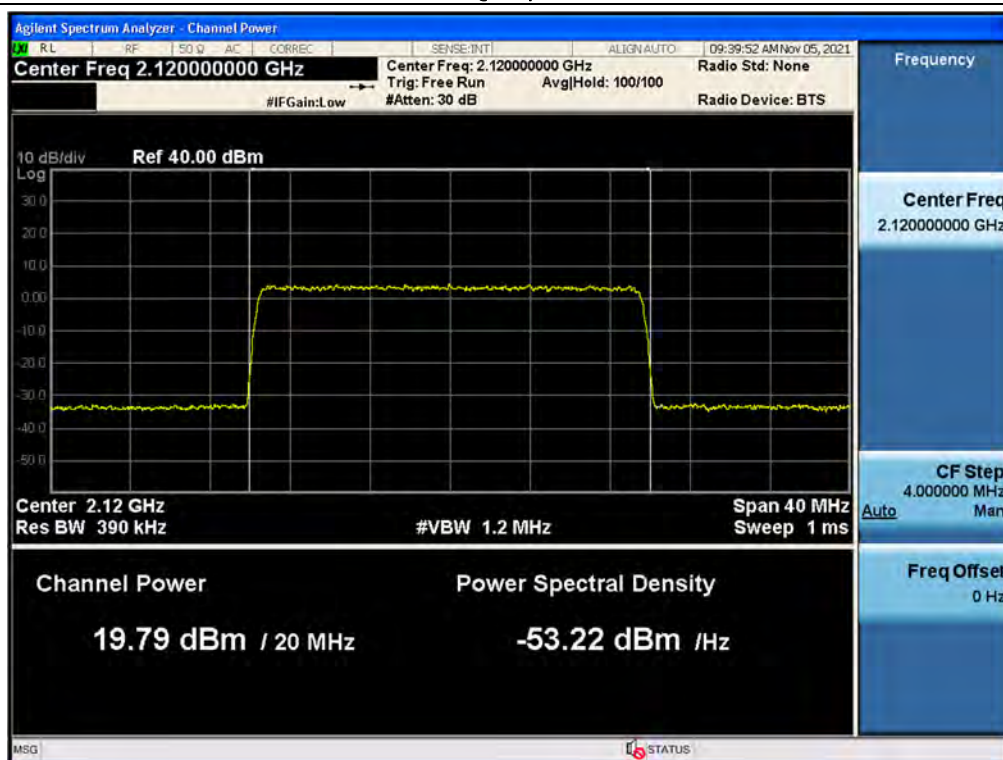
Antenna 1 / 5G NR n66 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 5 MHz / 16QAM / Low



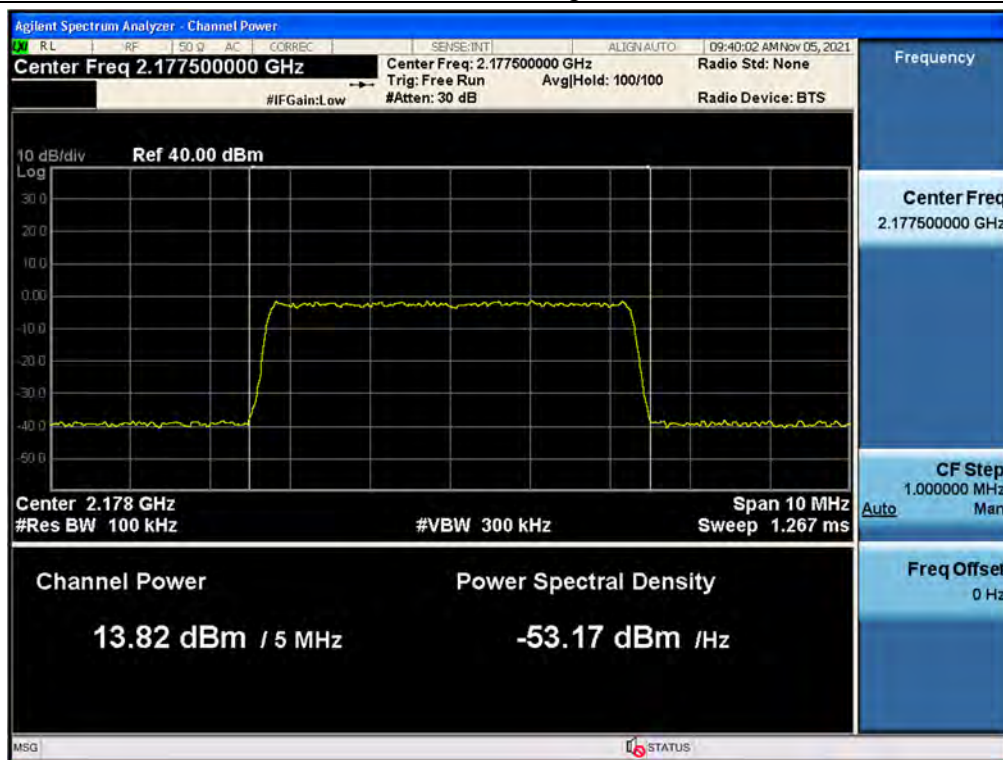
Antenna 1 / 5G NR n66 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 5 MHz / 16QAM / High



Antenna 1 / 5G NR n66 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 20 MHz / 256QAM / Low



Antenna 1 / 5G NR n66 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 5 MHz / 256QAM / High



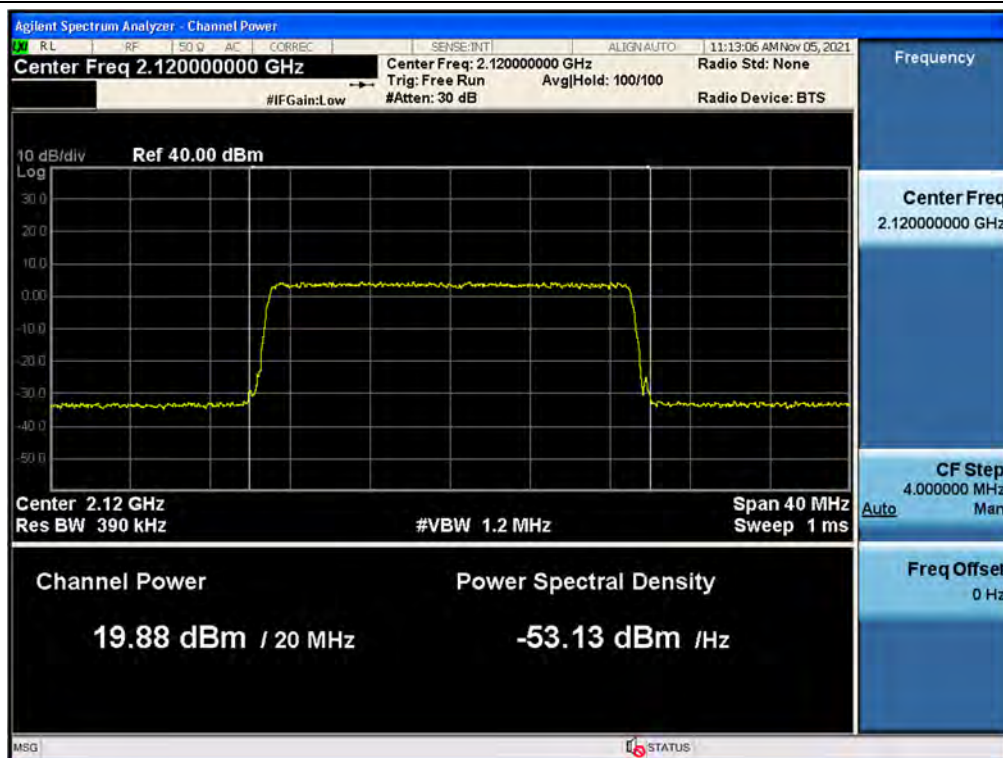
Antenna 1 / 5G NR n66 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 20 MHz / 256QAM / Low



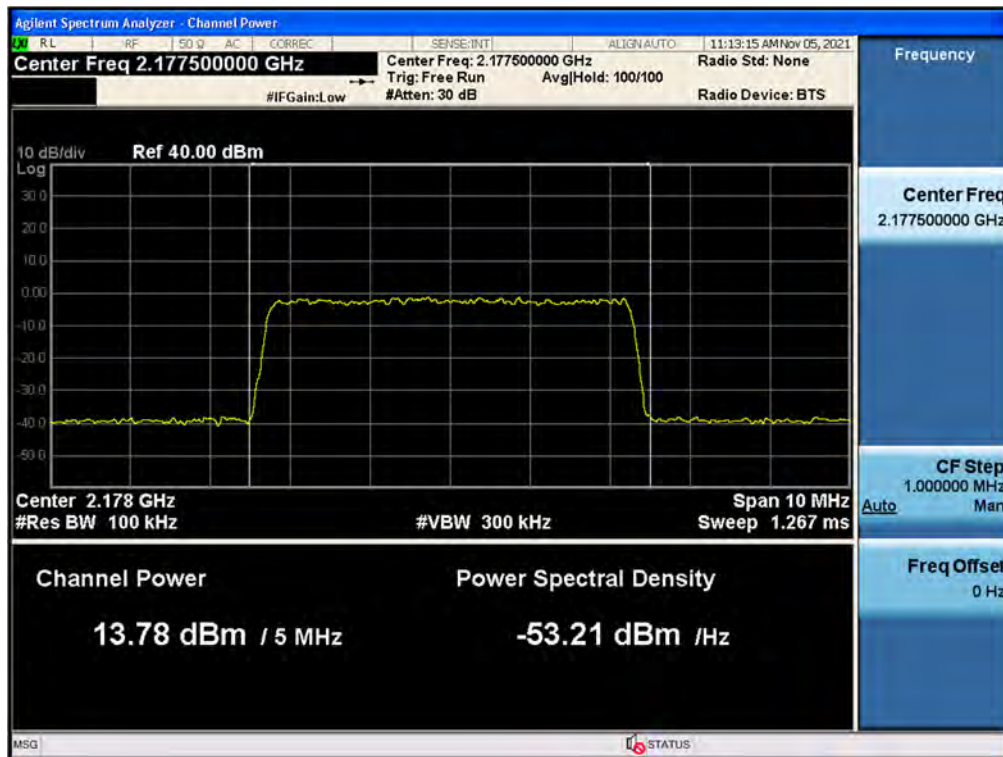
Antenna 1 / 5G NR n66 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 10 MHz / 256QAM / High



Antenna 1 / B66 LTE 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 20 MHz / 64QAM / Low



Antenna 1 / B66 LTE 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 5 MHz / 64QAM / High



Antenna 1 / B66 LTE 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 20 MHz / QPSK / Low



Antenna 1 / B66 LTE 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 10 MHz / QPSK / High



Tabular Data of PSD
B13 LTE 5 MHz 1 Carrier

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	Low	748.50	15.20	7.50	20.55	0.11	1000
		Middle	751.00	15.35	7.50	20.70	0.12	
		High	753.50	15.20	7.50	20.55	0.11	
	16QAM	Low	748.50	15.64	7.50	20.99	0.13	
		Middle	751.00	15.46	7.50	20.81	0.12	
		High	753.50	15.34	7.50	20.69	0.12	
	64QAM	Low	748.50	15.25	7.50	20.60	0.11	
		Middle	751.00	15.31	7.50	20.66	0.12	
		High	753.50	15.33	7.50	20.68	0.12	
	256QAM	Low	748.50	15.20	7.50	20.55	0.11	
		Middle	751.00	15.16	7.50	20.51	0.11	
		High	753.50	15.39	7.50	20.74	0.12	
1	QPSK	Low	748.50	15.20	7.50	20.55	0.11	1000
		Middle	751.00	15.28	7.50	20.63	0.12	
		High	753.50	15.21	7.50	20.56	0.11	
	16QAM	Low	748.50	15.46	7.50	20.81	0.12	
		Middle	751.00	15.54	7.50	20.89	0.12	
		High	753.50	15.65	7.50	21.00	0.13	
	64QAM	Low	748.50	15.43	7.50	20.78	0.12	
		Middle	751.00	15.17	7.50	20.52	0.11	
		High	753.50	15.23	7.50	20.58	0.11	
	256QAM	Low	748.50	15.27	7.50	20.62	0.12	
		Middle	751.00	15.45	7.50	20.80	0.12	
		High	753.50	15.56	7.50	20.91	0.12	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
748.50	0.23	0.25	0.23	0.23	1000
751.00	0.23	0.24	0.23	0.23	
753.50	0.23	0.24	0.23	0.24	

B13 LTE 10 MHz 1 Carrier

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	Middle	751.00	12.37	7.50	17.72	0.06	1000
	16QAM	Middle	751.00	12.64	7.50	17.99	0.06	
	64QAM	Middle	751.00	12.23	7.50	17.58	0.06	
	256QAM	Middle	751.00	12.32	7.50	17.67	0.06	
1	QPSK	Middle	751.00	12.41	7.50	17.76	0.06	
	16QAM	Middle	751.00	12.98	7.50	18.33	0.07	
	64QAM	Middle	751.00	12.49	7.50	17.84	0.06	
	256QAM	Middle	751.00	12.62	7.50	17.97	0.06	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
751.00	0.12	0.13	0.12	0.12	1000

5G NR n13 5 MHz 1 Carrier

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	Low	748.50	15.37	7.50	20.72	0.12	1000
		Middle	751.00	15.17	7.50	20.52	0.11	
		High	753.50	15.18	7.50	20.53	0.11	
	16QAM	Low	748.50	15.27	7.50	20.62	0.12	
		Middle	751.00	15.49	7.50	20.84	0.12	
		High	753.50	15.37	7.50	20.72	0.12	
	64QAM	Low	748.50	15.36	7.50	20.71	0.12	
		Middle	751.00	15.17	7.50	20.52	0.11	
		High	753.50	15.20	7.50	20.55	0.11	
	256QAM	Low	748.50	15.31	7.50	20.66	0.12	
		Middle	751.00	15.67	7.50	21.02	0.13	
		High	753.50	15.25	7.50	20.60	0.11	
1	QPSK	Low	748.50	15.32	7.50	20.67	0.12	1000
		Middle	751.00	15.40	7.50	20.75	0.12	
		High	753.50	15.29	7.50	20.64	0.12	
	16QAM	Low	748.50	15.29	7.50	20.64	0.12	
		Middle	751.00	15.62	7.50	20.97	0.12	
		High	753.50	15.49	7.50	20.84	0.12	
	64QAM	Low	748.50	15.36	7.50	20.71	0.12	
		Middle	751.00	15.15	7.50	20.50	0.11	
		High	753.50	15.21	7.50	20.56	0.11	
	256QAM	Low	748.50	15.25	7.50	20.60	0.11	
		Middle	751.00	15.29	7.50	20.64	0.12	
		High	753.50	15.32	7.50	20.67	0.12	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
748.50	0.23	0.23	0.24	0.23	1000
751.00	0.23	0.25	0.23	0.24	
753.50	0.23	0.24	0.23	0.23	

5G NR n13 10 MHz 1 Carrier

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	Middle	751.00	12.30	7.50	17.65	0.06	1000
	16QAM	Middle	751.00	12.81	7.50	18.16	0.07	
	64QAM	Middle	751.00	12.31	7.50	17.66	0.06	
	256QAM	Middle	751.00	12.18	7.50	17.53	0.06	
1	QPSK	Middle	751.00	12.36	7.50	17.71	0.06	
	16QAM	Middle	751.00	13.24	7.50	18.59	0.07	
	64QAM	Middle	751.00	12.18	7.50	17.53	0.06	
	256QAM	Middle	751.00	12.19	7.50	17.54	0.06	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
751.00	0.12	0.14	0.11	0.11	1000

B66 LTE 5 MHz 1 Carrier

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	Low	2112.50	15.08	8.00	23.08	0.20	1640
		Middle	2145.00	15.13	8.00	23.13	0.21	
		High	2177.50	15.44	8.00	23.44	0.22	
	16QAM	Low	2112.50	15.53	8.00	23.53	0.23	
		Middle	2145.00	15.42	8.00	23.42	0.22	
		High	2177.50	15.63	8.00	23.63	0.23	
	64QAM	Low	2112.50	15.14	8.00	23.14	0.21	
		Middle	2145.00	15.05	8.00	23.05	0.20	
		High	2177.50	15.41	8.00	23.41	0.22	
	256QAM	Low	2112.50	15.12	8.00	23.12	0.21	
		Middle	2145.00	15.22	8.00	23.22	0.21	
		High	2177.50	15.49	8.00	23.49	0.22	
1	QPSK	Low	2112.50	15.34	8.00	23.34	0.22	1640
		Middle	2145.00	15.18	8.00	23.18	0.21	
		High	2177.50	15.24	8.00	23.24	0.21	
	16QAM	Low	2112.50	15.40	8.00	23.40	0.22	
		Middle	2145.00	15.31	8.00	23.31	0.21	
		High	2177.50	15.25	8.00	23.25	0.21	
	64QAM	Low	2112.50	15.20	8.00	23.20	0.21	
		Middle	2145.00	15.19	8.00	23.19	0.21	
		High	2177.50	15.35	8.00	23.35	0.22	
	256QAM	Low	2112.50	15.04	8.00	23.04	0.20	
		Middle	2145.00	15.15	8.00	23.15	0.21	
		High	2177.50	15.38	8.00	23.38	0.22	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2112.50	0.42	0.44	0.41	0.41	1640
2145.00	0.41	0.43	0.41	0.42	
2177.50	0.43	0.44	0.44	0.44	

B66 LTE 10 MHz 1 Carrier

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	Low	2115.00	12.04	8.00	20.04	0.10	1640
		Middle	2145.00	12.06	8.00	20.06	0.10	
		High	2175.00	12.23	8.00	20.23	0.11	
	16QAM	Low	2115.00	12.49	8.00	20.49	0.11	
		Middle	2145.00	12.26	8.00	20.26	0.11	
		High	2175.00	12.57	8.00	20.57	0.11	
	64QAM	Low	2115.00	12.25	8.00	20.25	0.11	
		Middle	2145.00	12.03	8.00	20.03	0.10	
		High	2175.00	12.23	8.00	20.23	0.11	
	256QAM	Low	2115.00	12.12	8.00	20.12	0.10	
		Middle	2145.00	12.15	8.00	20.15	0.10	
		High	2175.00	12.30	8.00	20.30	0.11	
1	QPSK	Low	2115.00	12.41	8.00	20.41	0.11	1640
		Middle	2145.00	12.11	8.00	20.11	0.10	
		High	2175.00	12.26	8.00	20.26	0.11	
	16QAM	Low	2115.00	12.49	8.00	20.49	0.11	
		Middle	2145.00	12.30	8.00	20.30	0.11	
		High	2175.00	12.49	8.00	20.49	0.11	
	64QAM	Low	2115.00	12.52	8.00	20.52	0.11	
		Middle	2145.00	12.48	8.00	20.48	0.11	
		High	2175.00	12.37	8.00	20.37	0.11	
	256QAM	Low	2115.00	12.33	8.00	20.33	0.11	
		Middle	2145.00	12.26	8.00	20.26	0.11	
		High	2175.00	12.49	8.00	20.49	0.11	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2115.00	0.21	0.22	0.22	0.21	1640
2145.00	0.20	0.21	0.21	0.21	
2175.00	0.21	0.23	0.21	0.22	

B66 LTE 15 MHz 1 Carrier

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	Low	2117.50	10.20	8.00	18.20	0.07	1640
		Middle	2145.00	10.27	8.00	18.27	0.07	
		High	2172.50	10.49	8.00	18.49	0.07	
	16QAM	Low	2117.50	11.22	8.00	19.22	0.08	
		Middle	2145.00	10.95	8.00	18.95	0.08	
		High	2172.50	11.15	8.00	19.15	0.08	
	64QAM	Low	2117.50	10.32	8.00	18.32	0.07	
		Middle	2145.00	10.40	8.00	18.40	0.07	
		High	2172.50	10.46	8.00	18.46	0.07	
	256QAM	Low	2117.50	10.50	8.00	18.50	0.07	
		Middle	2145.00	10.33	8.00	18.33	0.07	
		High	2172.50	10.54	8.00	18.54	0.07	
1	QPSK	Low	2117.50	10.48	8.00	18.48	0.07	1640
		Middle	2145.00	10.49	8.00	18.49	0.07	
		High	2172.50	10.61	8.00	18.61	0.07	
	16QAM	Low	2117.50	10.89	8.00	18.89	0.08	
		Middle	2145.00	11.13	8.00	19.13	0.08	
		High	2172.50	11.26	8.00	19.26	0.08	
	64QAM	Low	2117.50	10.59	8.00	18.59	0.07	
		Middle	2145.00	10.45	8.00	18.45	0.07	
		High	2172.50	10.64	8.00	18.64	0.07	
	256QAM	Low	2117.50	10.60	8.00	18.60	0.07	
		Middle	2145.00	10.76	8.00	18.76	0.08	
		High	2172.50	10.69	8.00	18.69	0.07	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2117.50	0.14	0.16	0.14	0.14	1640
2145.00	0.14	0.16	0.14	0.14	
2172.50	0.14	0.17	0.14	0.15	

B66 LTE 20 MHz 1 Carrier

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	Low	2120.00	9.00	8.00	17.00	0.05	1640
		Middle	2145.00	9.19	8.00	17.19	0.05	
		High	2170.00	9.18	8.00	17.18	0.05	
	16QAM	Low	2120.00	9.48	8.00	17.48	0.06	
		Middle	2145.00	9.50	8.00	17.50	0.06	
		High	2170.00	9.60	8.00	17.60	0.06	
	64QAM	Low	2120.00	9.05	8.00	17.05	0.05	
		Middle	2145.00	9.16	8.00	17.16	0.05	
		High	2170.00	9.25	8.00	17.25	0.05	
	256QAM	Low	2120.00	9.17	8.00	17.17	0.05	
		Middle	2145.00	9.35	8.00	17.35	0.05	
		High	2170.00	9.40	8.00	17.40	0.05	
1	QPSK	Low	2120.00	9.11	8.00	17.11	0.05	1640
		Middle	2145.00	9.09	8.00	17.09	0.05	
		High	2170.00	9.41	8.00	17.41	0.06	
	16QAM	Low	2120.00	9.46	8.00	17.46	0.06	
		Middle	2145.00	9.42	8.00	17.42	0.06	
		High	2170.00	9.52	8.00	17.52	0.06	
	64QAM	Low	2120.00	9.29	8.00	17.29	0.05	
		Middle	2145.00	9.25	8.00	17.25	0.05	
		High	2170.00	9.78	8.00	17.78	0.06	
	256QAM	Low	2120.00	9.30	8.00	17.30	0.05	
		Middle	2145.00	9.22	8.00	17.22	0.05	
		High	2170.00	9.34	8.00	17.34	0.05	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2120.00	0.10	0.11	0.10	0.11	1640
2145.00	0.10	0.11	0.10	0.11	
2170.00	0.11	0.11	0.11	0.11	

5G NR n66 5 MHz 1 Carrier

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	Low	2112.50	15.20	8.00	23.20	0.21	1640
		Middle	2145.00	15.07	8.00	23.07	0.20	
		High	2177.50	15.44	8.00	23.44	0.22	
	16QAM	Low	2112.50	15.55	8.00	23.55	0.23	
		Middle	2145.00	15.23	8.00	23.23	0.21	
		High	2177.50	15.88	8.00	23.88	0.24	
	64QAM	Low	2112.50	15.05	8.00	23.05	0.20	
		Middle	2145.00	15.31	8.00	23.31	0.21	
		High	2177.50	15.19	8.00	23.19	0.21	
	256QAM	Low	2112.50	15.17	8.00	23.17	0.21	
		Middle	2145.00	15.21	8.00	23.21	0.21	
		High	2177.50	15.41	8.00	23.41	0.22	
1	QPSK	Low	2112.50	15.27	8.00	23.27	0.21	1640
		Middle	2145.00	15.15	8.00	23.15	0.21	
		High	2177.50	15.51	8.00	23.51	0.22	
	16QAM	Low	2112.50	15.38	8.00	23.38	0.22	
		Middle	2145.00	15.26	8.00	23.26	0.21	
		High	2177.50	15.31	8.00	23.31	0.21	
	64QAM	Low	2112.50	15.10	8.00	23.10	0.20	
		Middle	2145.00	15.11	8.00	23.11	0.20	
		High	2177.50	15.30	8.00	23.30	0.21	
	256QAM	Low	2112.50	15.17	8.00	23.17	0.21	
		Middle	2145.00	15.11	8.00	23.11	0.20	
		High	2177.50	15.34	8.00	23.34	0.22	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2112.50	0.42	0.44	0.41	0.41	1640
2145.00	0.41	0.42	0.42	0.41	
2177.50	0.45	0.46	0.42	0.44	

5G NR n66 10 MHz 1 Carrier

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	Low	2115.00	12.14	8.00	20.14	0.10	1640
		Middle	2145.00	12.03	8.00	20.03	0.10	
		High	2175.00	12.26	8.00	20.26	0.11	
	16QAM	Low	2115.00	12.79	8.00	20.79	0.12	
		Middle	2145.00	12.69	8.00	20.69	0.12	
		High	2175.00	13.03	8.00	21.03	0.13	
	64QAM	Low	2115.00	11.87	8.00	19.87	0.10	
		Middle	2145.00	12.07	8.00	20.07	0.10	
		High	2175.00	12.16	8.00	20.16	0.10	
	256QAM	Low	2115.00	11.91	8.00	19.91	0.10	
		Middle	2145.00	12.02	8.00	20.02	0.10	
		High	2175.00	12.45	8.00	20.45	0.11	
1	QPSK	Low	2115.00	12.18	8.00	20.18	0.10	1640
		Middle	2145.00	12.29	8.00	20.29	0.11	
		High	2175.00	12.27	8.00	20.27	0.11	
	16QAM	Low	2115.00	13.11	8.00	21.11	0.13	
		Middle	2145.00	12.70	8.00	20.70	0.12	
		High	2175.00	13.06	8.00	21.06	0.13	
	64QAM	Low	2115.00	11.89	8.00	19.89	0.10	
		Middle	2145.00	12.22	8.00	20.22	0.11	
		High	2175.00	12.34	8.00	20.34	0.11	
	256QAM	Low	2115.00	11.94	8.00	19.94	0.10	
		Middle	2145.00	12.21	8.00	20.21	0.11	
		High	2175.00	12.25	8.00	20.25	0.11	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2115.00	0.21	0.25	0.19	0.20	1640
2145.00	0.21	0.23	0.21	0.21	
2175.00	0.21	0.25	0.21	0.22	

5G NR n66 15 MHz 1 Carrier

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	Low	2117.50	10.20	8.00	18.20	0.07	1640
		Middle	2145.00	10.11	8.00	18.11	0.06	
		High	2172.50	10.46	8.00	18.46	0.07	
	16QAM	Low	2117.50	11.78	8.00	19.78	0.09	
		Middle	2145.00	11.64	8.00	19.64	0.09	
		High	2172.50	11.69	8.00	19.69	0.09	
	64QAM	Low	2117.50	10.26	8.00	18.26	0.07	
		Middle	2145.00	10.07	8.00	18.07	0.06	
		High	2172.50	10.47	8.00	18.47	0.07	
	256QAM	Low	2117.50	10.20	8.00	18.20	0.07	
		Middle	2145.00	10.14	8.00	18.14	0.07	
		High	2172.50	10.25	8.00	18.25	0.07	
1	QPSK	Low	2117.50	10.46	8.00	18.46	0.07	1640
		Middle	2145.00	10.38	8.00	18.38	0.07	
		High	2172.50	10.62	8.00	18.62	0.07	
	16QAM	Low	2117.50	11.94	8.00	19.94	0.10	
		Middle	2145.00	11.71	8.00	19.71	0.09	
		High	2172.50	11.92	8.00	19.92	0.10	
	64QAM	Low	2117.50	10.30	8.00	18.30	0.07	
		Middle	2145.00	10.12	8.00	18.12	0.06	
		High	2172.50	10.37	8.00	18.37	0.07	
	256QAM	Low	2117.50	10.23	8.00	18.23	0.07	
		Middle	2145.00	10.31	8.00	18.31	0.07	
		High	2172.50	10.38	8.00	18.38	0.07	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2117.50	0.14	0.19	0.13	0.13	1640
2145.00	0.13	0.19	0.13	0.13	
2172.50	0.14	0.19	0.14	0.14	

5G NR n66 20 MHz 1 Carrier

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	Low	2120.00	8.95	8.00	16.95	0.05	1640
		Middle	2145.00	8.92	8.00	16.92	0.05	
		High	2170.00	9.02	8.00	17.02	0.05	
	16QAM	Low	2120.00	10.52	8.00	18.52	0.07	
		Middle	2145.00	10.28	8.00	18.28	0.07	
		High	2170.00	10.67	8.00	18.67	0.07	
	64QAM	Low	2120.00	8.91	8.00	16.91	0.05	
		Middle	2145.00	8.67	8.00	16.67	0.05	
		High	2170.00	8.95	8.00	16.95	0.05	
	256QAM	Low	2120.00	8.86	8.00	16.86	0.05	
		Middle	2145.00	8.82	8.00	16.82	0.05	
		High	2170.00	9.10	8.00	17.10	0.05	
1	QPSK	Low	2120.00	8.99	8.00	16.99	0.05	1640
		Middle	2145.00	8.89	8.00	16.89	0.05	
		High	2170.00	9.16	8.00	17.16	0.05	
	16QAM	Low	2120.00	10.71	8.00	18.71	0.07	
		Middle	2145.00	10.50	8.00	18.50	0.07	
		High	2170.00	10.62	8.00	18.62	0.07	
	64QAM	Low	2120.00	9.10	8.00	17.10	0.05	
		Middle	2145.00	8.96	8.00	16.96	0.05	
		High	2170.00	9.21	8.00	17.21	0.05	
	256QAM	Low	2120.00	8.83	8.00	16.83	0.05	
		Middle	2145.00	9.00	8.00	17.00	0.05	
		High	2170.00	9.11	8.00	17.11	0.05	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2120.00	0.10	0.15	0.10	0.10	1640
2145.00	0.10	0.14	0.10	0.10	
2170.00	0.10	0.15	0.10	0.10	

Tabular Data of Contiguous PSD

B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	Low	2115.00	12.03	8.00	20.03	0.10	1640
		Middle	2145.00	12.30	8.00	20.30	0.11	
		High	2175.00	12.29	8.00	20.29	0.11	
	16QAM	Low	2115.00	12.43	8.00	20.43	0.11	
		Middle	2145.00	12.54	8.00	20.54	0.11	
		High	2175.00	12.57	8.00	20.57	0.11	
	64QAM	Low	2115.00	12.34	8.00	20.34	0.11	
		Middle	2145.00	12.30	8.00	20.30	0.11	
		High	2175.00	12.23	8.00	20.23	0.11	
	256QAM	Low	2115.00	12.14	8.00	20.14	0.10	
		Middle	2145.00	12.43	8.00	20.43	0.11	
		High	2175.00	12.49	8.00	20.49	0.11	
1	QPSK	Low	2115.00	12.52	8.00	20.52	0.11	1640
		Middle	2145.00	12.29	8.00	20.29	0.11	
		High	2175.00	12.49	8.00	20.49	0.11	
	16QAM	Low	2115.00	12.92	8.00	20.92	0.12	
		Middle	2145.00	12.46	8.00	20.46	0.11	
		High	2175.00	12.72	8.00	20.72	0.12	
	64QAM	Low	2115.00	12.57	8.00	20.57	0.11	
		Middle	2145.00	12.39	8.00	20.39	0.11	
		High	2175.00	12.36	8.00	20.36	0.11	
	256QAM	Low	2115.00	12.54	8.00	20.54	0.11	
		Middle	2145.00	12.57	8.00	20.57	0.11	
		High	2175.00	12.51	8.00	20.51	0.11	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2115.00	0.21	0.23	0.22	0.22	1640
2145.00	0.21	0.22	0.22	0.22	
2175.00	0.22	0.23	0.21	0.22	

B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	Low	2122.50	8.07	8.00	16.07	0.04	1640
		Middle	2145.00	8.62	8.00	16.62	0.05	
		High	2167.50	8.23	8.00	16.23	0.04	
	16QAM	Low	2122.50	8.35	8.00	16.35	0.04	
		Middle	2145.00	8.56	8.00	16.56	0.05	
		High	2167.50	8.52	8.00	16.52	0.04	
	64QAM	Low	2122.50	8.22	8.00	16.22	0.04	
		Middle	2145.00	8.30	8.00	16.30	0.04	
		High	2167.50	8.25	8.00	16.25	0.04	
	256QAM	Low	2122.50	8.32	8.00	16.32	0.04	
		Middle	2145.00	8.48	8.00	16.48	0.04	
		High	2167.50	8.20	8.00	16.20	0.04	
1	QPSK	Low	2122.50	8.33	8.00	16.33	0.04	1640
		Middle	2145.00	8.56	8.00	16.56	0.05	
		High	2167.50	8.49	8.00	16.49	0.04	
	16QAM	Low	2122.50	8.79	8.00	16.79	0.05	
		Middle	2145.00	8.69	8.00	16.69	0.05	
		High	2167.50	8.74	8.00	16.74	0.05	
	64QAM	Low	2122.50	8.21	8.00	16.21	0.04	
		Middle	2145.00	8.36	8.00	16.36	0.04	
		High	2167.50	8.63	8.00	16.63	0.05	
	256QAM	Low	2122.50	8.38	8.00	16.38	0.04	
		Middle	2145.00	8.50	8.00	16.50	0.04	
		High	2167.50	8.49	8.00	16.49	0.04	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2122.50	0.08	0.09	0.08	0.09	1640
2145.00	0.09	0.09	0.09	0.09	
2167.50	0.09	0.09	0.09	0.09	

B66 LTE 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	Low	2125.00	7.49	8.00	15.49	0.04	1640
		Middle	2145.00	7.43	8.00	15.43	0.03	
		High	2165.00	7.57	8.00	15.57	0.04	
	16QAM	Low	2125.00	7.75	8.00	15.75	0.04	
		Middle	2145.00	7.59	8.00	15.59	0.04	
		High	2165.00	7.77	8.00	15.77	0.04	
	64QAM	Low	2125.00	7.44	8.00	15.44	0.04	
		Middle	2145.00	7.35	8.00	15.35	0.03	
		High	2165.00	7.47	8.00	15.47	0.04	
	256QAM	Low	2125.00	7.33	8.00	15.33	0.03	
		Middle	2145.00	7.47	8.00	15.47	0.04	
		High	2165.00	7.60	8.00	15.60	0.04	
1	QPSK	Low	2125.00	7.51	8.00	15.51	0.04	1640
		Middle	2145.00	7.34	8.00	15.34	0.03	
		High	2165.00	7.64	8.00	15.64	0.04	
	16QAM	Low	2125.00	8.18	8.00	16.18	0.04	
		Middle	2145.00	7.92	8.00	15.92	0.04	
		High	2165.00	7.79	8.00	15.79	0.04	
	64QAM	Low	2125.00	7.68	8.00	15.68	0.04	
		Middle	2145.00	7.57	8.00	15.57	0.04	
		High	2165.00	7.72	8.00	15.72	0.04	
	256QAM	Low	2125.00	7.33	8.00	15.33	0.03	
		Middle	2145.00	7.67	8.00	15.67	0.04	
		High	2165.00	7.71	8.00	15.71	0.04	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2125.00	0.07	0.08	0.07	0.07	1640
2145.00	0.07	0.08	0.07	0.07	
2165.00	0.07	0.08	0.07	0.07	

5G NR n66 5 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	Low	2115.00	12.09	8.00	20.09	0.10	1640
		Middle	2145.00	12.03	8.00	20.03	0.10	
		High	2175.00	12.14	8.00	20.14	0.10	
	16QAM	Low	2115.00	12.32	8.00	20.32	0.11	
		Middle	2145.00	12.22	8.00	20.22	0.11	
		High	2175.00	12.34	8.00	20.34	0.11	
	64QAM	Low	2115.00	12.24	8.00	20.24	0.11	
		Middle	2145.00	12.24	8.00	20.24	0.11	
		High	2175.00	12.28	8.00	20.28	0.11	
	256QAM	Low	2115.00	12.12	8.00	20.12	0.10	
		Middle	2145.00	12.22	8.00	20.22	0.11	
		High	2175.00	12.20	8.00	20.20	0.10	
1	QPSK	Low	2115.00	12.39	8.00	20.39	0.11	1640
		Middle	2145.00	12.26	8.00	20.26	0.11	
		High	2175.00	12.23	8.00	20.23	0.11	
	16QAM	Low	2115.00	12.57	8.00	20.57	0.11	
		Middle	2145.00	12.33	8.00	20.33	0.11	
		High	2175.00	12.58	8.00	20.58	0.11	
	64QAM	Low	2115.00	12.43	8.00	20.43	0.11	
		Middle	2145.00	12.20	8.00	20.20	0.10	
		High	2175.00	12.41	8.00	20.41	0.11	
	256QAM	Low	2115.00	12.38	8.00	20.38	0.11	
		Middle	2145.00	12.05	8.00	20.05	0.10	
		High	2175.00	12.52	8.00	20.52	0.11	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2115.00	0.21	0.22	0.22	0.21	1640
2145.00	0.21	0.21	0.21	0.21	
2175.00	0.21	0.22	0.22	0.22	

5G NR n66 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	Low	2122.50	7.99	8.00	15.99	0.04	1640
		Middle	2145.00	8.00	8.00	16.00	0.04	
		High	2167.50	8.26	8.00	16.26	0.04	
	16QAM	Low	2122.50	9.35	8.00	17.35	0.05	
		Middle	2145.00	9.40	8.00	17.40	0.05	
		High	2167.50	9.80	8.00	17.80	0.06	
	64QAM	Low	2122.50	8.06	8.00	16.06	0.04	
		Middle	2145.00	7.97	8.00	15.97	0.04	
		High	2167.50	8.22	8.00	16.22	0.04	
	256QAM	Low	2122.50	8.09	8.00	16.09	0.04	
		Middle	2145.00	8.03	8.00	16.03	0.04	
		High	2167.50	8.22	8.00	16.22	0.04	
1	QPSK	Low	2122.50	7.96	8.00	15.96	0.04	1640
		Middle	2145.00	8.01	8.00	16.01	0.04	
		High	2167.50	8.37	8.00	16.37	0.04	
	16QAM	Low	2122.50	9.70	8.00	17.70	0.06	
		Middle	2145.00	9.74	8.00	17.74	0.06	
		High	2167.50	9.83	8.00	17.83	0.06	
	64QAM	Low	2122.50	8.47	8.00	16.47	0.04	
		Middle	2145.00	8.19	8.00	16.19	0.04	
		High	2167.50	8.37	8.00	16.37	0.04	
	256QAM	Low	2122.50	8.10	8.00	16.10	0.04	
		Middle	2145.00	8.22	8.00	16.22	0.04	
		High	2167.50	8.34	8.00	16.34	0.04	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2122.50	0.08	0.11	0.08	0.08	1640
2145.00	0.08	0.11	0.08	0.08	
2167.50	0.09	0.12	0.09	0.08	

5G NR n66 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	Low	2125.00	6.99	8.00	14.99	0.03	1640
		Middle	2145.00	7.41	8.00	15.41	0.03	
		High	2165.00	7.46	8.00	15.46	0.04	
	16QAM	Low	2125.00	8.61	8.00	16.61	0.05	
		Middle	2145.00	8.56	8.00	16.56	0.05	
		High	2165.00	8.70	8.00	16.70	0.05	
	64QAM	Low	2125.00	7.39	8.00	15.39	0.03	
		Middle	2145.00	7.16	8.00	15.16	0.03	
		High	2165.00	7.36	8.00	15.36	0.03	
	256QAM	Low	2125.00	7.21	8.00	15.21	0.03	
		Middle	2145.00	7.08	8.00	15.08	0.03	
		High	2165.00	7.25	8.00	15.25	0.03	
1	QPSK	Low	2125.00	7.24	8.00	15.24	0.03	1640
		Middle	2145.00	7.18	8.00	15.18	0.03	
		High	2165.00	7.51	8.00	15.51	0.04	
	16QAM	Low	2125.00	8.92	8.00	16.92	0.05	
		Middle	2145.00	8.64	8.00	16.64	0.05	
		High	2165.00	8.79	8.00	16.79	0.05	
	64QAM	Low	2125.00	7.15	8.00	15.15	0.03	
		Middle	2145.00	7.66	8.00	15.66	0.04	
		High	2165.00	7.69	8.00	15.69	0.04	
	256QAM	Low	2125.00	7.50	8.00	15.50	0.04	
		Middle	2145.00	7.54	8.00	15.54	0.04	
		High	2165.00	7.61	8.00	15.61	0.04	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2125.00	0.06	0.10	0.07	0.07	1640
2145.00	0.07	0.09	0.07	0.07	
2165.00	0.07	0.09	0.07	0.07	

5G NR n66 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	Low	2115.00	12.19	8.00	20.19	0.10	1640
		Middle	2145.00	12.33	8.00	20.33	0.11	
		High	2175.00	12.71	8.00	20.71	0.12	
	16QAM	Low	2115.00	12.28	8.00	20.28	0.11	
		Middle	2145.00	12.74	8.00	20.74	0.12	
		High	2175.00	12.66	8.00	20.66	0.12	
	64QAM	Low	2115.00	12.37	8.00	20.37	0.11	
		Middle	2145.00	12.34	8.00	20.34	0.11	
		High	2175.00	12.28	8.00	20.28	0.11	
	256QAM	Low	2115.00	12.04	8.00	20.04	0.10	
		Middle	2145.00	12.17	8.00	20.17	0.10	
		High	2175.00	12.39	8.00	20.39	0.11	
1	QPSK	Low	2115.00	12.40	8.00	20.40	0.11	1640
		Middle	2145.00	12.59	8.00	20.59	0.11	
		High	2175.00	12.42	8.00	20.42	0.11	
	16QAM	Low	2115.00	12.47	8.00	20.47	0.11	
		Middle	2145.00	12.60	8.00	20.60	0.11	
		High	2175.00	12.62	8.00	20.62	0.12	
	64QAM	Low	2115.00	12.39	8.00	20.39	0.11	
		Middle	2145.00	12.33	8.00	20.33	0.11	
		High	2175.00	12.46	8.00	20.46	0.11	
	256QAM	Low	2115.00	12.38	8.00	20.38	0.11	
		Middle	2145.00	12.50	8.00	20.50	0.11	
		High	2175.00	12.60	8.00	20.60	0.11	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2115.00	0.21	0.22	0.22	0.21	1640
2145.00	0.22	0.23	0.22	0.22	
2175.00	0.23	0.23	0.22	0.22	

5G NR n66 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	Low	2122.50	8.04	8.00	16.04	0.04	1640
		Middle	2145.00	8.34	8.00	16.34	0.04	
		High	2167.50	7.99	8.00	15.99	0.04	
	16QAM	Low	2122.50	9.49	8.00	17.49	0.06	
		Middle	2145.00	9.61	8.00	17.61	0.06	
		High	2167.50	9.45	8.00	17.45	0.06	
	64QAM	Low	2122.50	7.93	8.00	15.93	0.04	
		Middle	2145.00	7.88	8.00	15.88	0.04	
		High	2167.50	8.16	8.00	16.16	0.04	
	256QAM	Low	2122.50	8.12	8.00	16.12	0.04	
		Middle	2145.00	7.93	8.00	15.93	0.04	
		High	2167.50	8.13	8.00	16.13	0.04	
1	QPSK	Low	2122.50	8.11	8.00	16.11	0.04	1640
		Middle	2145.00	8.28	8.00	16.28	0.04	
		High	2167.50	8.44	8.00	16.44	0.04	
	16QAM	Low	2122.50	9.35	8.00	17.35	0.05	
		Middle	2145.00	9.61	8.00	17.61	0.06	
		High	2167.50	9.80	8.00	17.80	0.06	
	64QAM	Low	2122.50	8.04	8.00	16.04	0.04	
		Middle	2145.00	7.98	8.00	15.98	0.04	
		High	2167.50	8.29	8.00	16.29	0.04	
	256QAM	Low	2122.50	7.96	8.00	15.96	0.04	
		Middle	2145.00	8.11	8.00	16.11	0.04	
		High	2167.50	8.18	8.00	16.18	0.04	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2122.50	0.08	0.11	0.08	0.08	1640
2145.00	0.09	0.12	0.08	0.08	
2167.50	0.08	0.12	0.08	0.08	

5G NR n66 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	Low	2125.00	7.29	8.00	15.29	0.03	1640
		Middle	2145.00	7.48	8.00	15.48	0.04	
		High	2165.00	7.81	8.00	15.81	0.04	
	16QAM	Low	2125.00	8.83	8.00	16.83	0.05	
		Middle	2145.00	8.59	8.00	16.59	0.05	
		High	2165.00	8.90	8.00	16.90	0.05	
	64QAM	Low	2125.00	7.31	8.00	15.31	0.03	
		Middle	2145.00	7.40	8.00	15.40	0.03	
		High	2165.00	7.41	8.00	15.41	0.03	
	256QAM	Low	2125.00	7.31	8.00	15.31	0.03	
		Middle	2145.00	7.48	8.00	15.48	0.04	
		High	2165.00	7.45	8.00	15.45	0.04	
1	QPSK	Low	2125.00	7.55	8.00	15.55	0.04	1640
		Middle	2145.00	7.56	8.00	15.56	0.04	
		High	2165.00	7.60	8.00	15.60	0.04	
	16QAM	Low	2125.00	8.90	8.00	16.90	0.05	
		Middle	2145.00	8.70	8.00	16.70	0.05	
		High	2165.00	9.04	8.00	17.04	0.05	
	64QAM	Low	2125.00	7.63	8.00	15.63	0.04	
		Middle	2145.00	7.36	8.00	15.36	0.03	
		High	2165.00	7.78	8.00	15.78	0.04	
	256QAM	Low	2125.00	7.68	8.00	15.68	0.04	
		Middle	2145.00	7.46	8.00	15.46	0.04	
		High	2165.00	7.75	8.00	15.75	0.04	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2125.00	0.07	0.10	0.07	0.07	1640
2145.00	0.07	0.09	0.07	0.07	
2165.00	0.07	0.10	0.07	0.07	

B66 LTE 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	Low	2122.50	8.29	8.00	16.29	0.04	1640
		Middle	2145.00	8.37	8.00	16.37	0.04	
		High	2167.50	8.43	8.00	16.43	0.04	
	16QAM	Low	2122.50	8.40	8.00	16.40	0.04	
		Middle	2145.00	8.53	8.00	16.53	0.04	
		High	2167.50	8.56	8.00	16.56	0.05	
	64QAM	Low	2122.50	8.21	8.00	16.21	0.04	
		Middle	2145.00	8.23	8.00	16.23	0.04	
		High	2167.50	8.47	8.00	16.47	0.04	
	256QAM	Low	2122.50	8.02	8.00	16.02	0.04	
		Middle	2145.00	8.16	8.00	16.16	0.04	
		High	2167.50	8.40	8.00	16.40	0.04	
1	QPSK	Low	2122.50	8.18	8.00	16.18	0.04	1640
		Middle	2145.00	8.41	8.00	16.41	0.04	
		High	2167.50	8.57	8.00	16.57	0.05	
	16QAM	Low	2122.50	8.61	8.00	16.61	0.05	
		Middle	2145.00	8.99	8.00	16.99	0.05	
		High	2167.50	8.92	8.00	16.92	0.05	
	64QAM	Low	2122.50	8.23	8.00	16.23	0.04	
		Middle	2145.00	8.45	8.00	16.45	0.04	
		High	2167.50	8.47	8.00	16.47	0.04	
	256QAM	Low	2122.50	8.31	8.00	16.31	0.04	
		Middle	2145.00	8.50	8.00	16.50	0.04	
		High	2167.50	8.71	8.00	16.71	0.05	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2122.50	0.08	0.09	0.08	0.08	1640
2145.00	0.09	0.09	0.09	0.09	
2167.50	0.09	0.09	0.09	0.09	

B66 LTE 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	Low	2125.00	7.50	8.00	15.50	0.04	1640
		Middle	2145.00	7.56	8.00	15.56	0.04	
		High	2165.00	7.67	8.00	15.67	0.04	
	16QAM	Low	2125.00	7.89	8.00	15.89	0.04	
		Middle	2145.00	8.12	8.00	16.12	0.04	
		High	2165.00	8.20	8.00	16.20	0.04	
	64QAM	Low	2125.00	7.60	8.00	15.60	0.04	
		Middle	2145.00	7.41	8.00	15.41	0.03	
		High	2165.00	7.72	8.00	15.72	0.04	
	256QAM	Low	2125.00	7.41	8.00	15.41	0.03	
		Middle	2145.00	7.40	8.00	15.40	0.03	
		High	2165.00	7.47	8.00	15.47	0.04	
1	QPSK	Low	2125.00	7.58	8.00	15.58	0.04	1640
		Middle	2145.00	7.51	8.00	15.51	0.04	
		High	2165.00	7.70	8.00	15.70	0.04	
	16QAM	Low	2125.00	7.91	8.00	15.91	0.04	
		Middle	2145.00	8.27	8.00	16.27	0.04	
		High	2165.00	8.02	8.00	16.02	0.04	
	64QAM	Low	2125.00	7.42	8.00	15.42	0.03	
		Middle	2145.00	7.33	8.00	15.33	0.03	
		High	2165.00	7.60	8.00	15.60	0.04	
	256QAM	Low	2125.00	7.54	8.00	15.54	0.04	
		Middle	2145.00	7.48	8.00	15.48	0.04	
		High	2165.00	7.81	8.00	15.81	0.04	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2125.00	0.07	0.08	0.07	0.07	1640
2145.00	0.07	0.08	0.07	0.07	
2165.00	0.07	0.08	0.07	0.07	

Tabular Data of Non-Contiguous PSD

B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	2112.50 + 2177.50	12.17	8.00	20.17	0.10	1640
	16QAM	2112.50 + 2177.50	12.38	8.00	20.38	0.11	
	64QAM	2112.50 + 2177.50	12.12	8.00	20.12	0.10	
	256QAM	2112.50 + 2177.50	12.25	8.00	20.25	0.11	
1	QPSK	2112.50 + 2177.50	12.22	8.00	20.22	0.11	
	16QAM	2112.50 + 2177.50	12.64	8.00	20.64	0.12	
	64QAM	2112.50 + 2177.50	12.36	8.00	20.36	0.11	
	256QAM	2112.50 + 2177.50	12.33	8.00	20.33	0.11	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2112.50 + 2177.50	0.21	0.22	0.21	0.21	1640

B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	2120.00 + 2177.50	8.13	8.00	16.13	0.04	1640
	16QAM	2120.00 + 2177.50	8.50	8.00	16.50	0.04	
	64QAM	2120.00 + 2177.50	8.31	8.00	16.31	0.04	
	256QAM	2120.00 + 2177.50	8.37	8.00	16.37	0.04	
1	QPSK	2120.00 + 2177.50	8.37	8.00	16.37	0.04	
	16QAM	2120.00 + 2177.50	9.00	8.00	17.00	0.05	
	64QAM	2120.00 + 2177.50	8.36	8.00	16.36	0.04	
	256QAM	2120.00 + 2177.50	8.39	8.00	16.39	0.04	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2120.00 + 2177.50	0.08	0.09	0.09	0.09	1640

B66 LTE 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	2120.00 + 2175.00	7.63	8.00	15.63	0.04	1640
	16QAM	2120.00 + 2175.00	7.88	8.00	15.88	0.04	
	64QAM	2120.00 + 2175.00	7.71	8.00	15.71	0.04	
	256QAM	2120.00 + 2175.00	7.62	8.00	15.62	0.04	
1	QPSK	2120.00 + 2175.00	7.72	8.00	15.72	0.04	
	16QAM	2120.00 + 2175.00	8.12	8.00	16.12	0.04	
	64QAM	2120.00 + 2175.00	7.63	8.00	15.63	0.04	
	256QAM	2120.00 + 2175.00	7.69	8.00	15.69	0.04	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2120.00 + 2175.00	0.07	0.08	0.07	0.07	1640

5G NR n66 5 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	2112.50 + 2177.50	12.31	8.00	20.31	0.11	1640
	16QAM	2112.50 + 2177.50	12.66	8.00	20.66	0.12	
	64QAM	2112.50 + 2177.50	12.71	8.00	20.71	0.12	
	256QAM	2112.50 + 2177.50	12.52	8.00	20.52	0.11	
1	QPSK	2112.50 + 2177.50	12.40	8.00	20.40	0.11	
	16QAM	2112.50 + 2177.50	12.61	8.00	20.61	0.12	
	64QAM	2112.50 + 2177.50	12.29	8.00	20.29	0.11	
	256QAM	2112.50 + 2177.50	12.44	8.00	20.44	0.11	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2112.50 + 2177.50	0.22	0.23	0.22	0.22	1640

5G NR n66 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	2120.00 + 2177.50	8.14	8.00	16.14	0.04	1640
	16QAM	2120.00 + 2177.50	9.42	8.00	17.42	0.06	
	64QAM	2120.00 + 2177.50	8.17	8.00	16.17	0.04	
	256QAM	2120.00 + 2177.50	8.38	8.00	16.38	0.04	
1	QPSK	2120.00 + 2177.50	8.11	8.00	16.11	0.04	
	16QAM	2120.00 + 2177.50	9.56	8.00	17.56	0.06	
	64QAM	2120.00 + 2177.50	8.54	8.00	16.54	0.05	
	256QAM	2120.00 + 2177.50	8.28	8.00	16.28	0.04	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2120.00 + 2177.50	0.08	0.11	0.09	0.09	1640

5G NR n66 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	2120.00 + 2175.00	7.38	8.00	15.38	0.03	1640
	16QAM	2120.00 + 2175.00	8.70	8.00	16.70	0.05	
	64QAM	2120.00 + 2175.00	7.45	8.00	15.45	0.04	
	256QAM	2120.00 + 2175.00	7.60	8.00	15.60	0.04	
1	QPSK	2120.00 + 2175.00	7.40	8.00	15.40	0.03	
	16QAM	2120.00 + 2175.00	8.78	8.00	16.78	0.05	
	64QAM	2120.00 + 2175.00	7.88	8.00	15.88	0.04	
	256QAM	2120.00 + 2175.00	7.72	8.00	15.72	0.04	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2120.00 + 2175.00	0.07	0.09	0.07	0.07	1640

5G NR n66 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	2112.50 + 2177.50	12.37	8.00	20.37	0.11	1640
	16QAM	2112.50 + 2177.50	12.62	8.00	20.62	0.12	
	64QAM	2112.50 + 2177.50	12.41	8.00	20.41	0.11	
	256QAM	2112.50 + 2177.50	12.34	8.00	20.34	0.11	
1	QPSK	2112.50 + 2177.50	12.47	8.00	20.47	0.11	
	16QAM	2112.50 + 2177.50	13.25	8.00	21.25	0.13	
	64QAM	2112.50 + 2177.50	12.57	8.00	20.57	0.11	
	256QAM	2112.50 + 2177.50	12.49	8.00	20.49	0.11	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2112.50 + 2177.50	0.22	0.25	0.22	0.22	1640

5G NR n66 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	2120.00 + 2177.50	8.34	8.00	16.34	0.04	1640
	16QAM	2120.00 + 2177.50	9.62	8.00	17.62	0.06	
	64QAM	2120.00 + 2177.50	8.31	8.00	16.31	0.04	
	256QAM	2120.00 + 2177.50	8.23	8.00	16.23	0.04	
1	QPSK	2120.00 + 2177.50	8.22	8.00	16.22	0.04	
	16QAM	2120.00 + 2177.50	9.63	8.00	17.63	0.06	
	64QAM	2120.00 + 2177.50	8.18	8.00	16.18	0.04	
	256QAM	2120.00 + 2177.50	8.35	8.00	16.35	0.04	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2120.00 + 2177.50	0.08	0.12	0.08	0.09	1640

5G NR n66 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	2120.00 + 2175.00	7.52	8.00	15.52	0.04	1640
	16QAM	2120.00 + 2175.00	8.95	8.00	16.95	0.05	
	64QAM	2120.00 + 2175.00	7.60	8.00	15.60	0.04	
	256QAM	2120.00 + 2175.00	7.59	8.00	15.59	0.04	
1	QPSK	2120.00 + 2175.00	8.06	8.00	16.06	0.04	
	16QAM	2120.00 + 2175.00	8.80	8.00	16.80	0.05	
	64QAM	2120.00 + 2175.00	7.76	8.00	15.76	0.04	
	256QAM	2120.00 + 2175.00	7.72	8.00	15.72	0.04	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2120.00 + 2175.00	0.08	0.10	0.07	0.07	1640

B66 LTE 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	2120.00 + 2177.50	8.19	8.00	16.19	0.04	1640
	16QAM	2120.00 + 2177.50	8.38	8.00	16.38	0.04	
	64QAM	2120.00 + 2177.50	8.33	8.00	16.33	0.04	
	256QAM	2120.00 + 2177.50	8.49	8.00	16.49	0.04	
1	QPSK	2120.00 + 2177.50	8.43	8.00	16.43	0.04	
	16QAM	2120.00 + 2177.50	8.59	8.00	16.59	0.05	
	64QAM	2120.00 + 2177.50	8.29	8.00	16.29	0.04	
	256QAM	2120.00 + 2177.50	8.57	8.00	16.57	0.05	

Sum Data of Port 0 and Port 1

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2120.00 + 2177.50	0.09	0.09	0.09	0.09	1640

B66 LTE 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	2120.00 + 2175.00	7.55	8.00	15.55	0.04	1640
	16QAM	2120.00 + 2175.00	8.09	8.00	16.09	0.04	
	64QAM	2120.00 + 2175.00	7.71	8.00	15.71	0.04	
	256QAM	2120.00 + 2175.00	7.51	8.00	15.51	0.04	
1	QPSK	2120.00 + 2175.00	7.85	8.00	15.85	0.04	
	16QAM	2120.00 + 2175.00	8.52	8.00	16.52	0.04	
	64QAM	2120.00 + 2175.00	7.85	8.00	15.85	0.04	
	256QAM	2120.00 + 2175.00	7.63	8.00	15.63	0.04	

Sum Data of Port 0 and Port 1

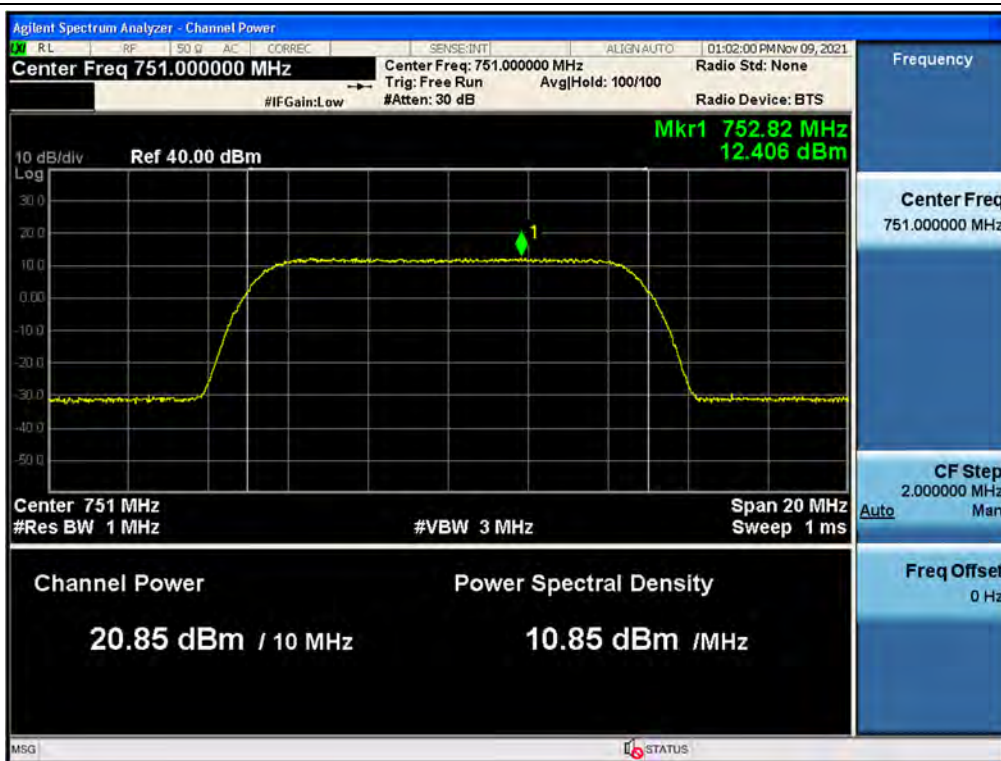
Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2120.00 + 2175.00	0.07	0.09	0.08	0.07	1640

Plot Data of PSD

Antenna 1 / B13 LTE 5 MHz 1 Carrier / 64QAM / Low



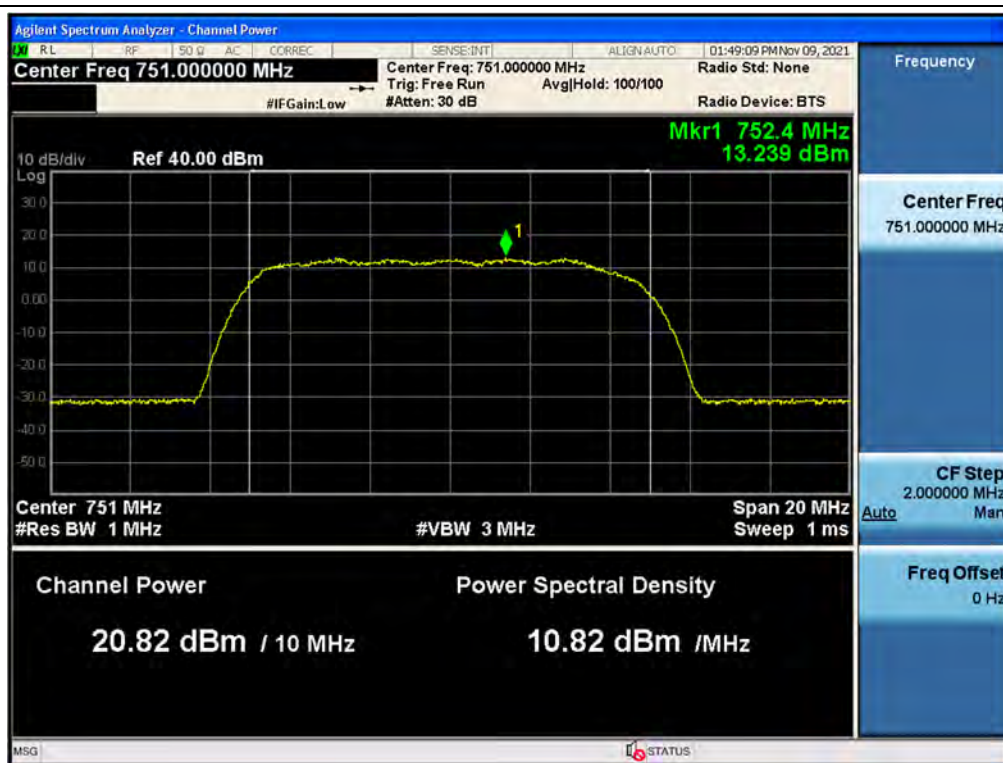
Antenna 1 / B13 LTE 10 MHz 1 Carrier / QPSK / Middle



Antenna 0 / 5G NR n13 5 MHz 1 Carrier / 256QAM / Middle



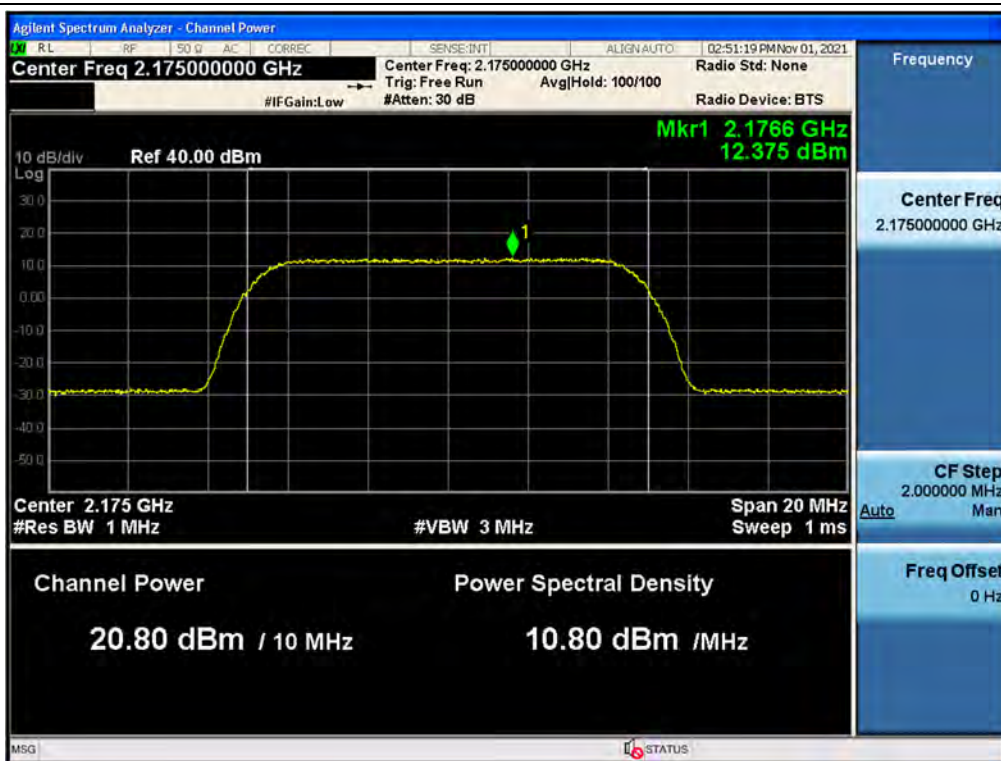
Antenna 1 / 5G NR n13 10 MHz 1 Carrier / 16QAM / Middle



Antenna 0 / B66 LTE 5 MHz 1 Carrier / 64QAM / High



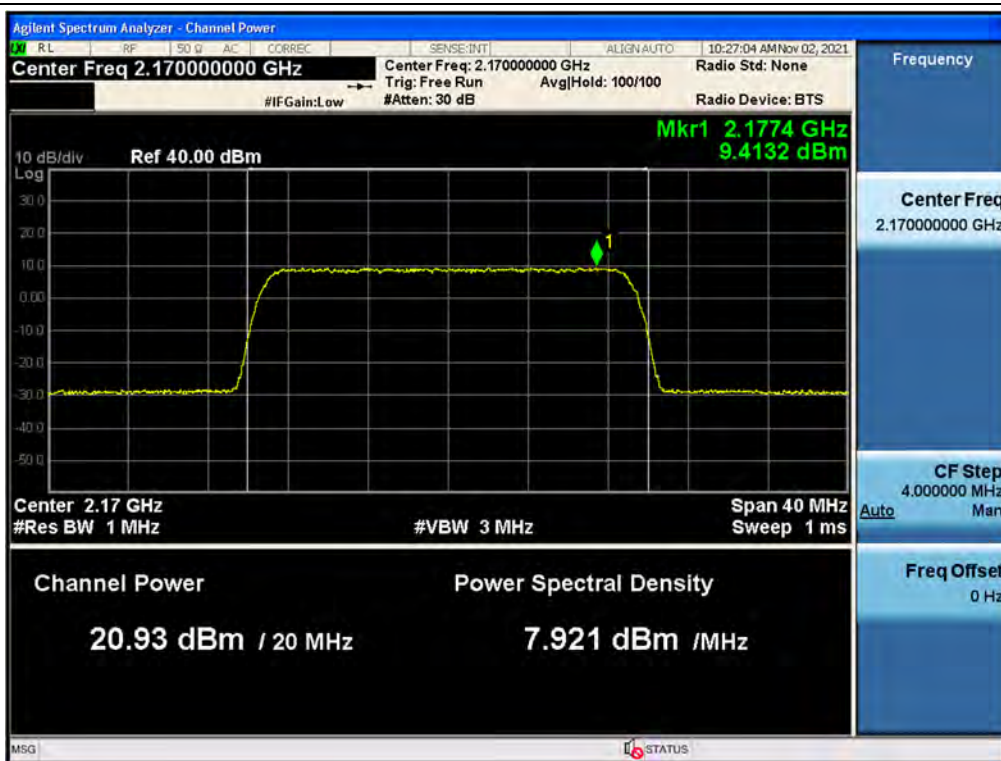
Antenna 1 / B66 LTE 10 MHz 1 Carrier / 64QAM / High



Antenna 1 / B66 LTE 15 MHz 1 Carrier / 64QAM / High



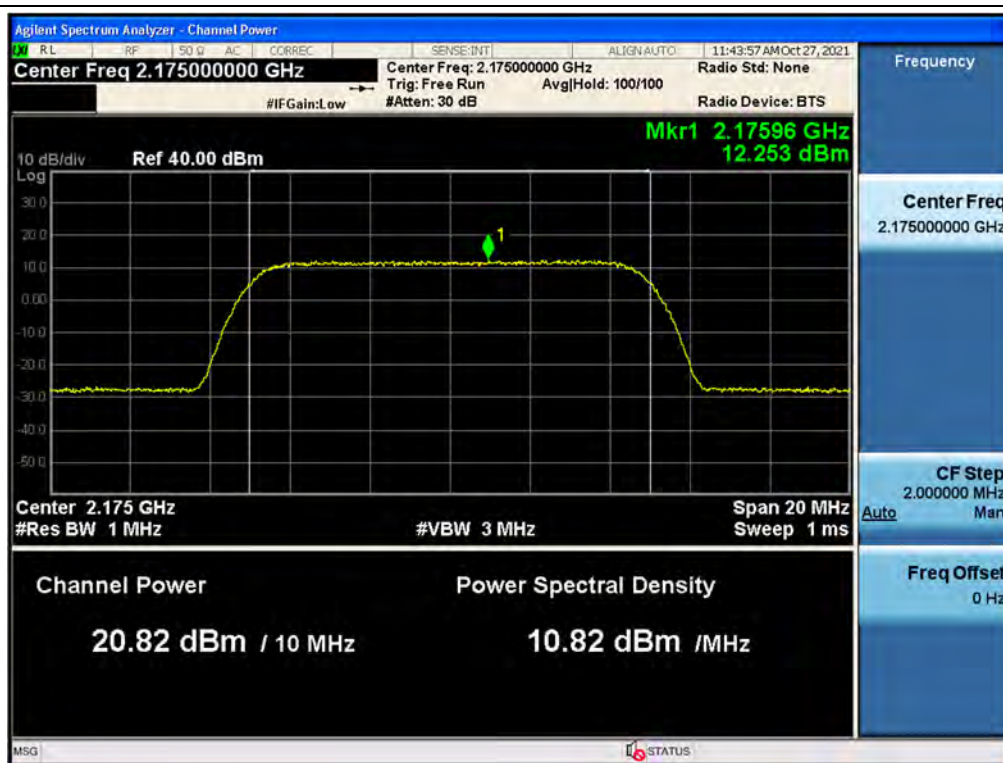
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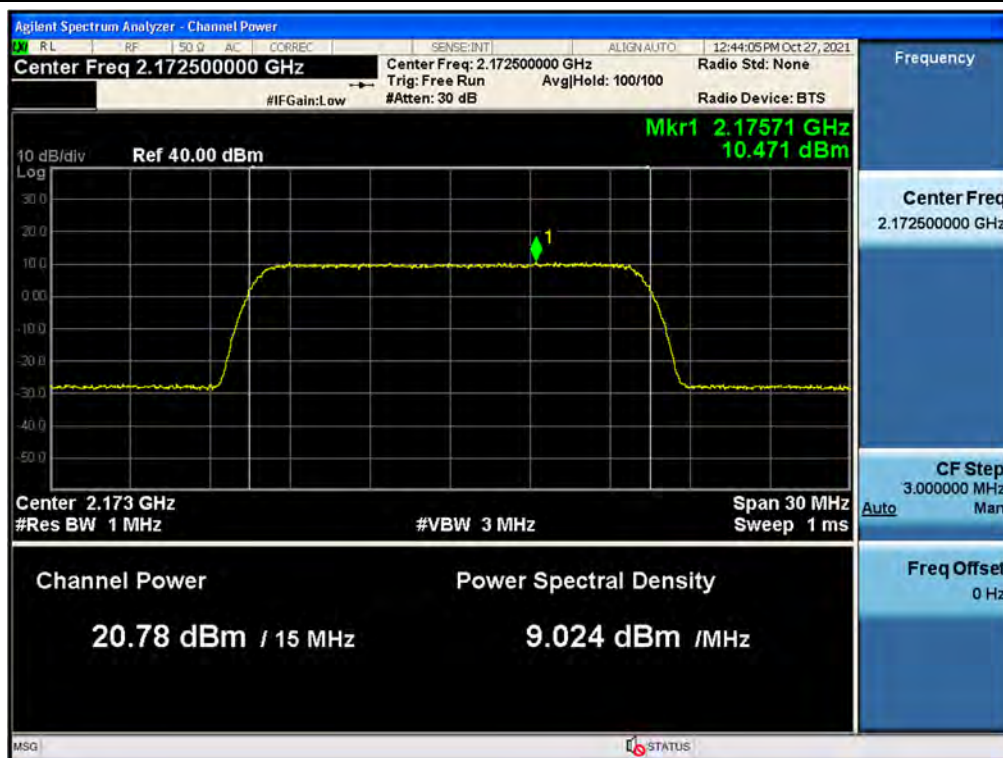
Antenna 0 / 5G NR n66 5 MHz 1 Carrier / 16QAM / High



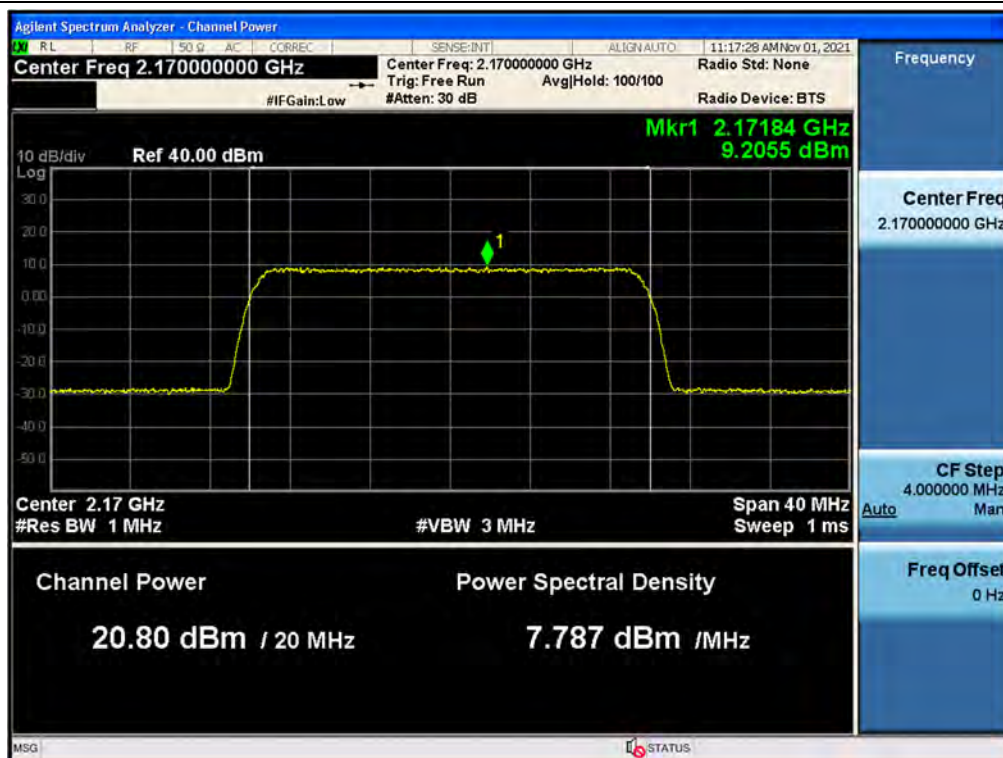
Antenna 1 / 5G NR n66 10 MHz 1 Carrier / 256QAM / High



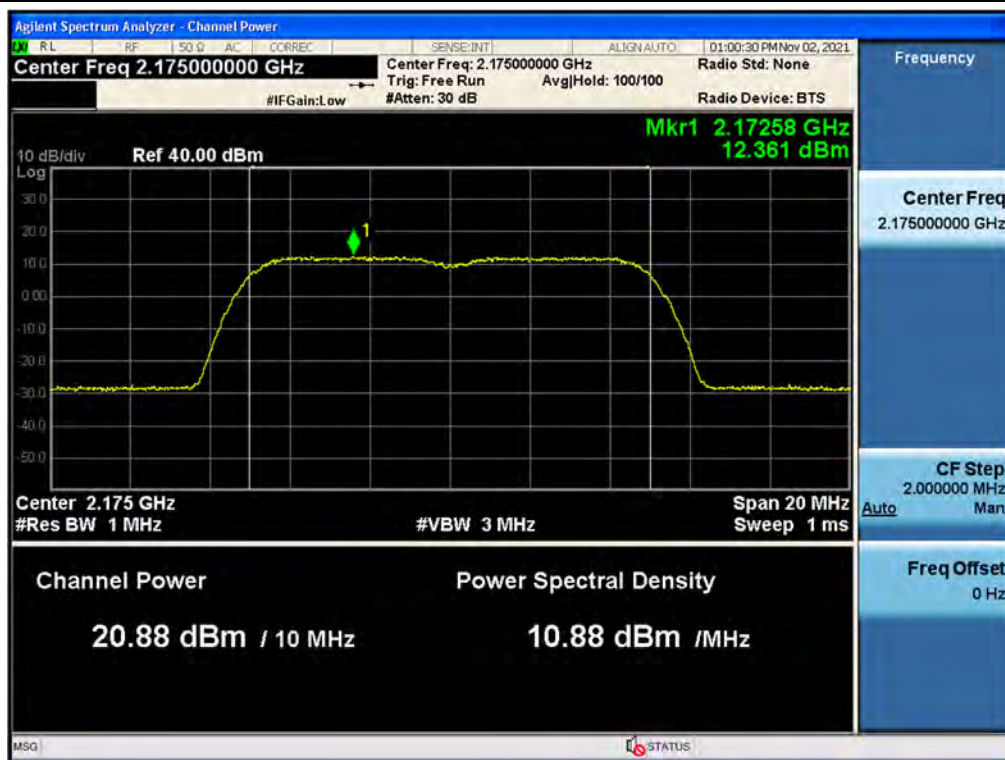
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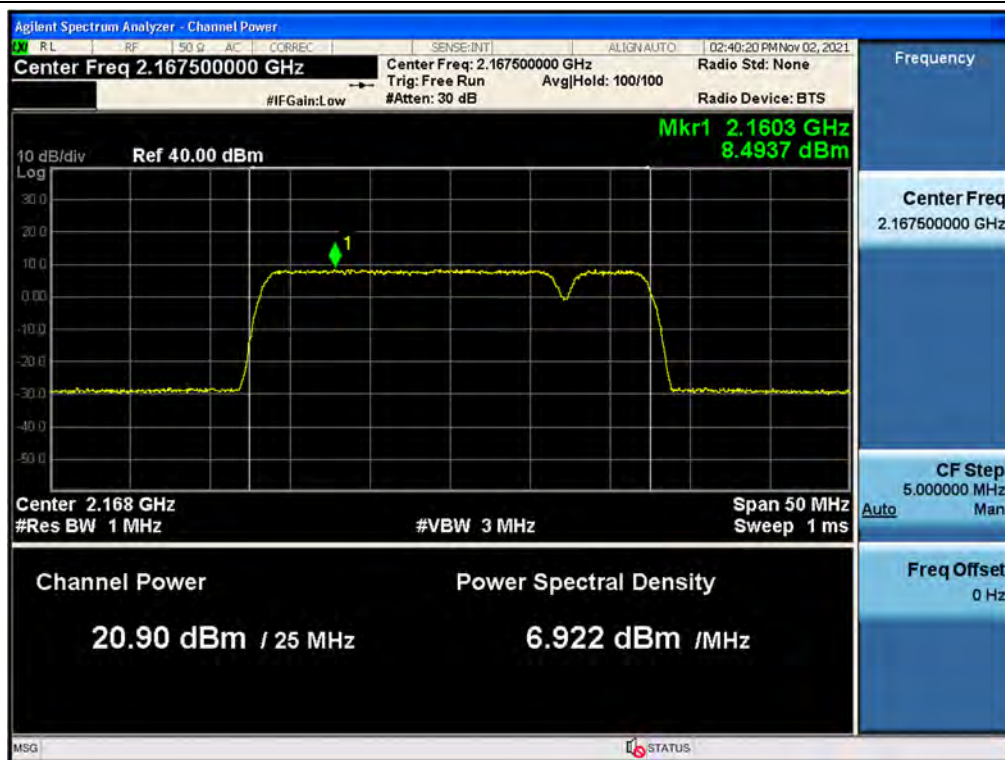
Antenna 1 / 5G NR n66 20 MHz 1 Carrier / 64QAM / High



Antenna 1 / B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Contiguous / 64QAM / High



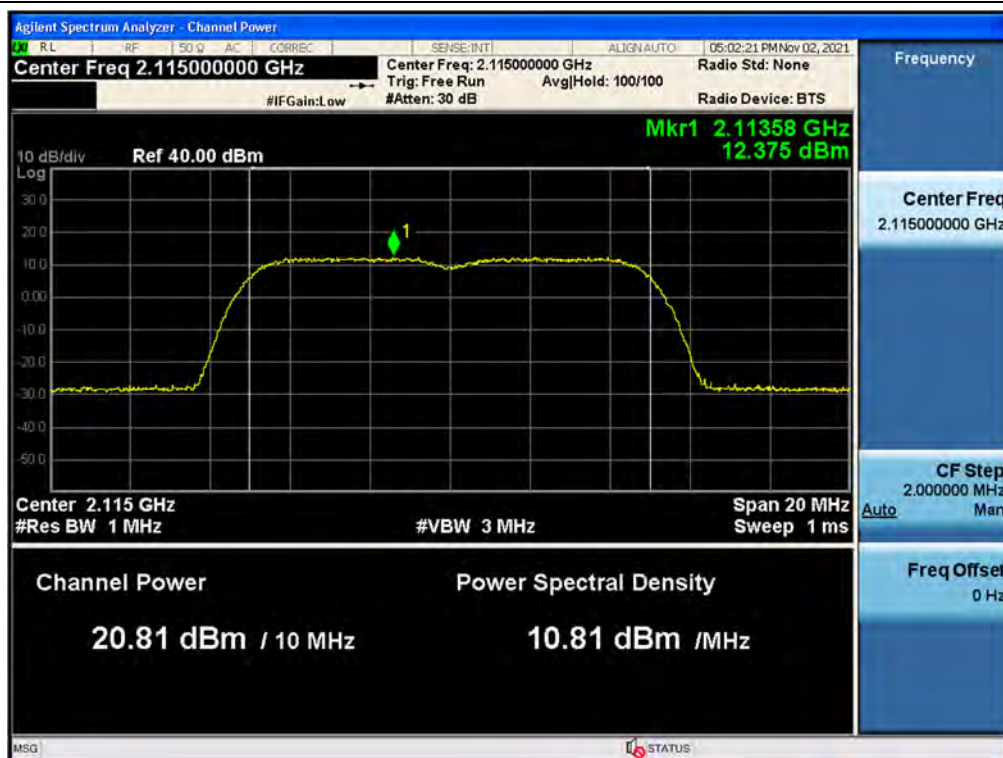
Antenna 1 / B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Contiguous / QPSK / High



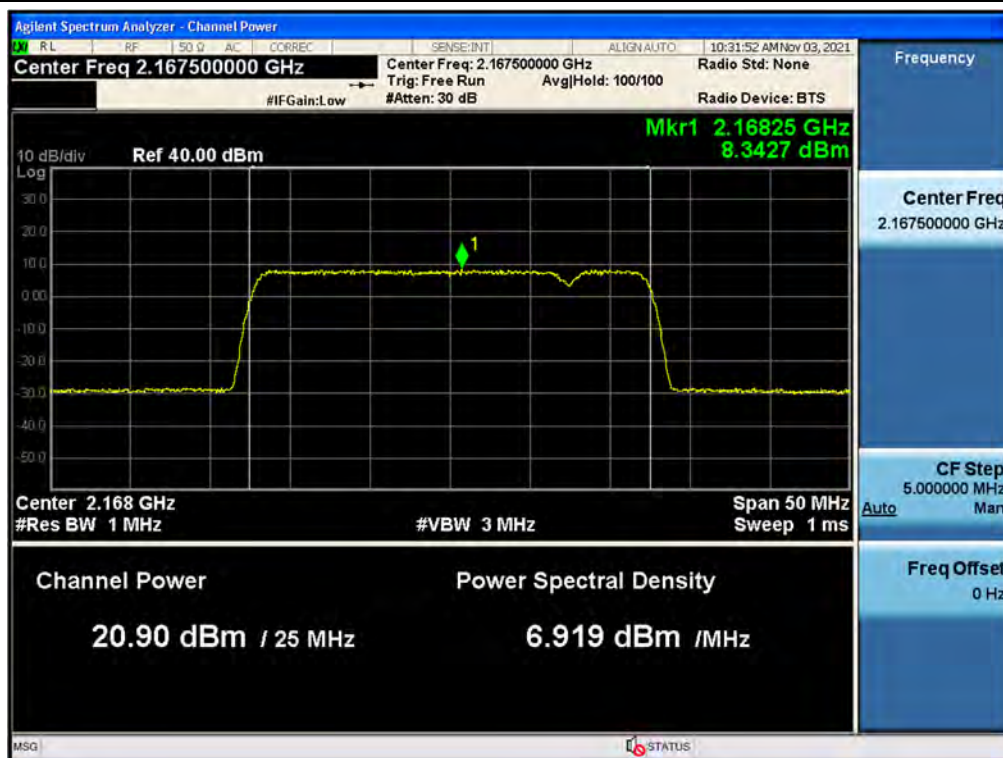
Antenna 1 / B66 LTE 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier] / Contiguous / QPSK / High



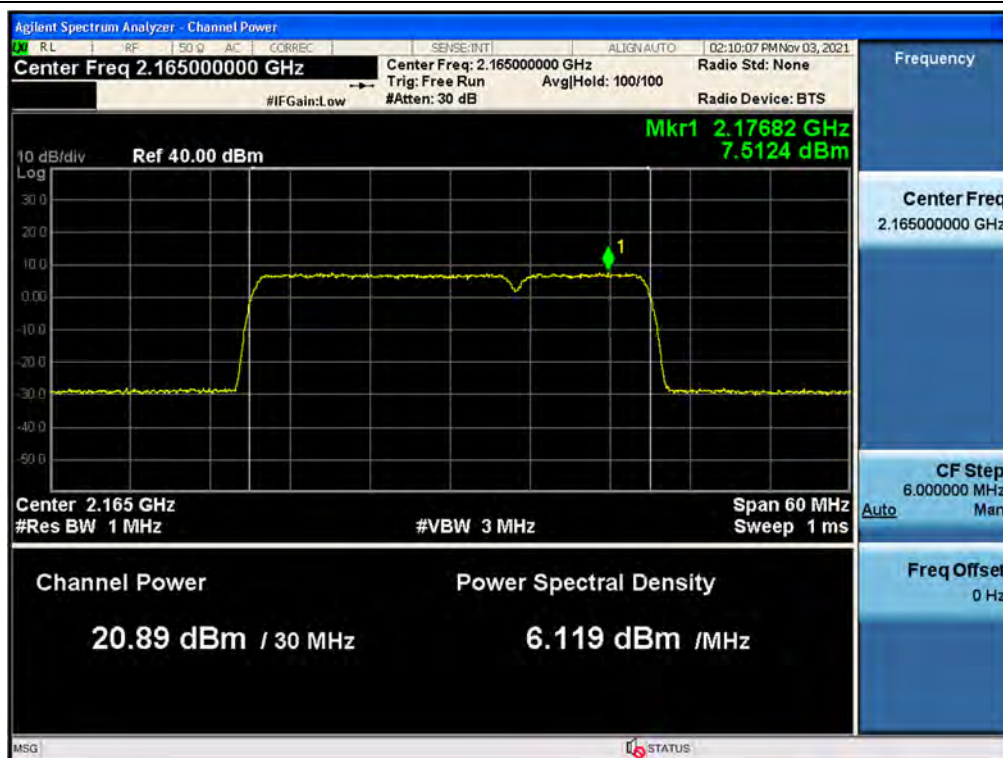
Antenna 1 / 5G NR n66 5 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier] / Contiguous / 256QAM / Low



Antenna 1 / 5G NR n66 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier] / Contiguous / 256QAM / High



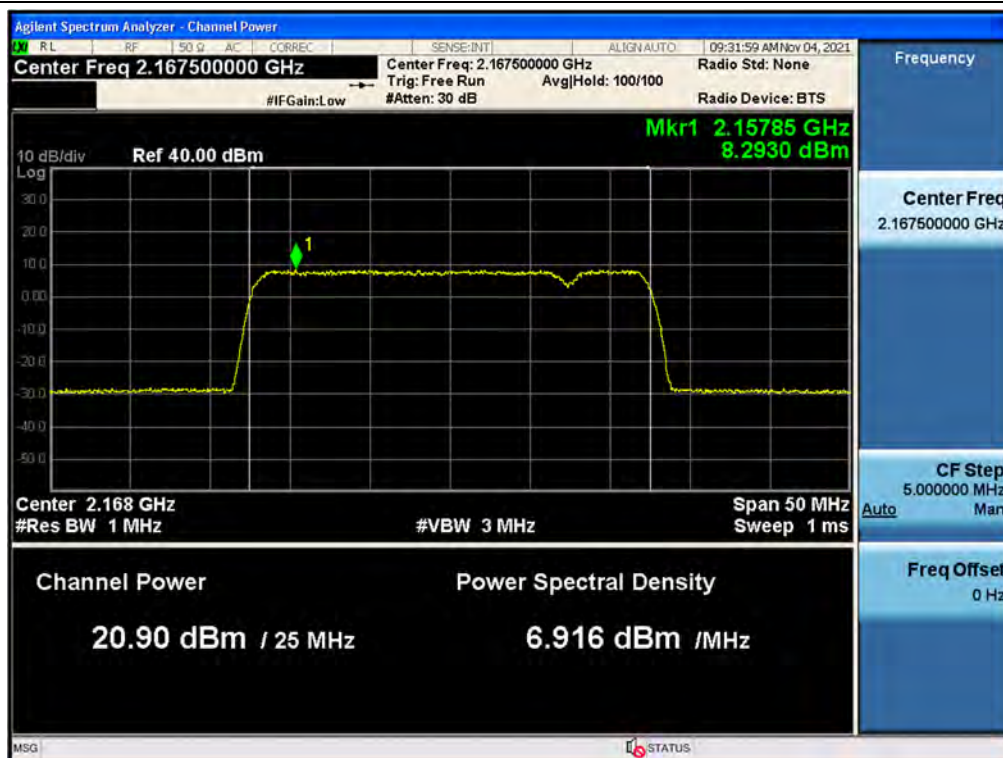
Antenna 1 / 5G NR n66 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier] / Contiguous / QPSK / High



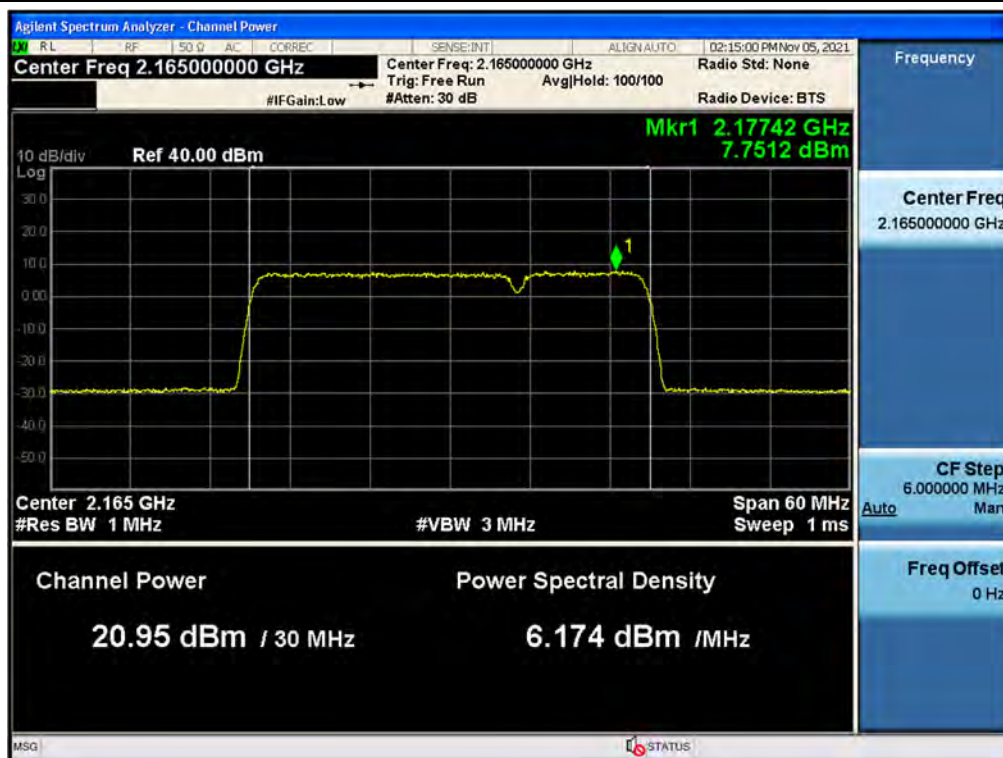
Antenna 1 / 5G NR n66 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Contiguous / 256QAM / High



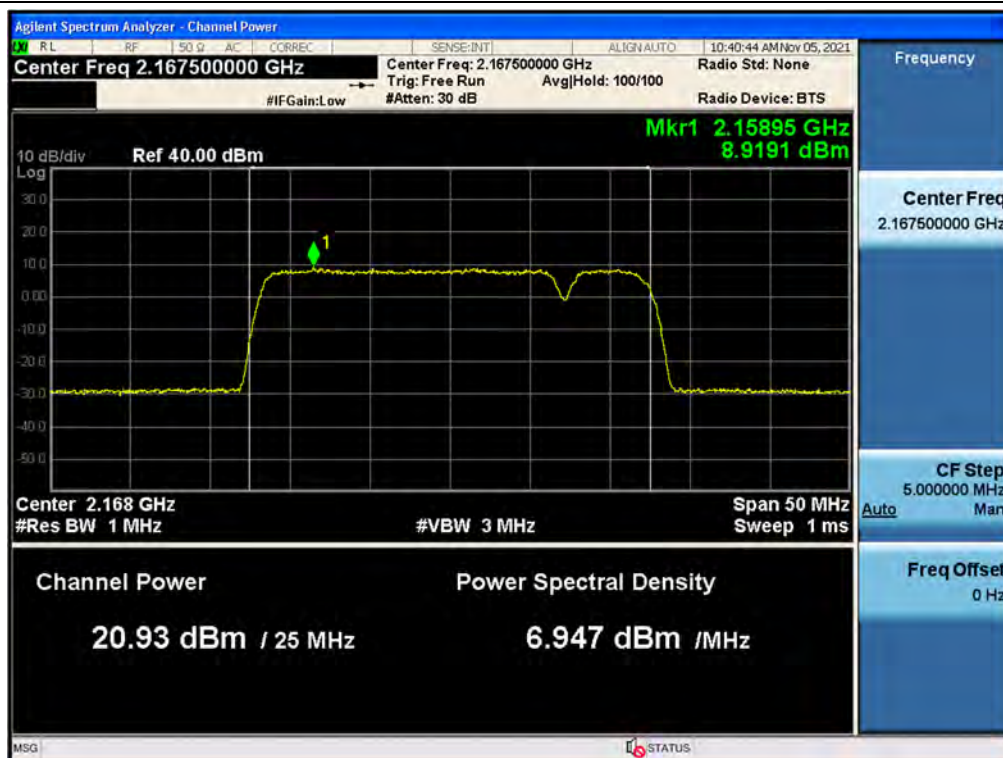
Antenna 1 / 5G NR n66 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Contiguous / 64QAM / High



Antenna 1 / 5G NR n66 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier] / Contiguous / 256QAM / High



Antenna 1 / B66 LTE 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier] / Contiguous / 16QAM / High



Antenna 1 / B66 LTE 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier] / Contiguous / 16QAM / High



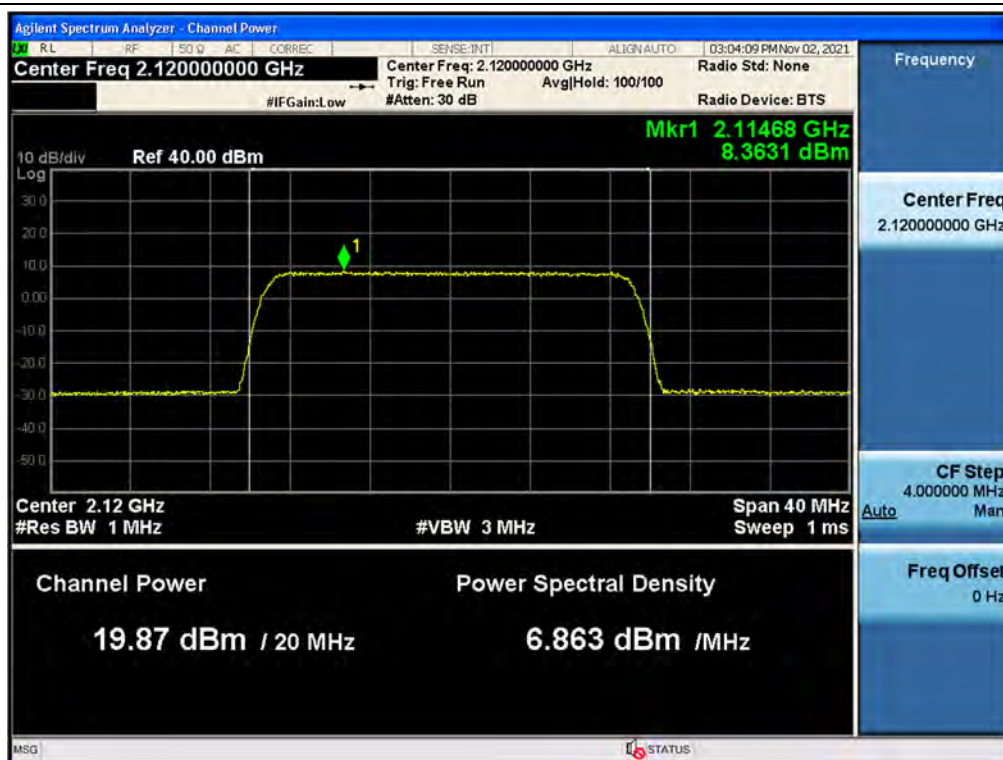
Antenna 1 / B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 5 MHz / 16QAM / Low



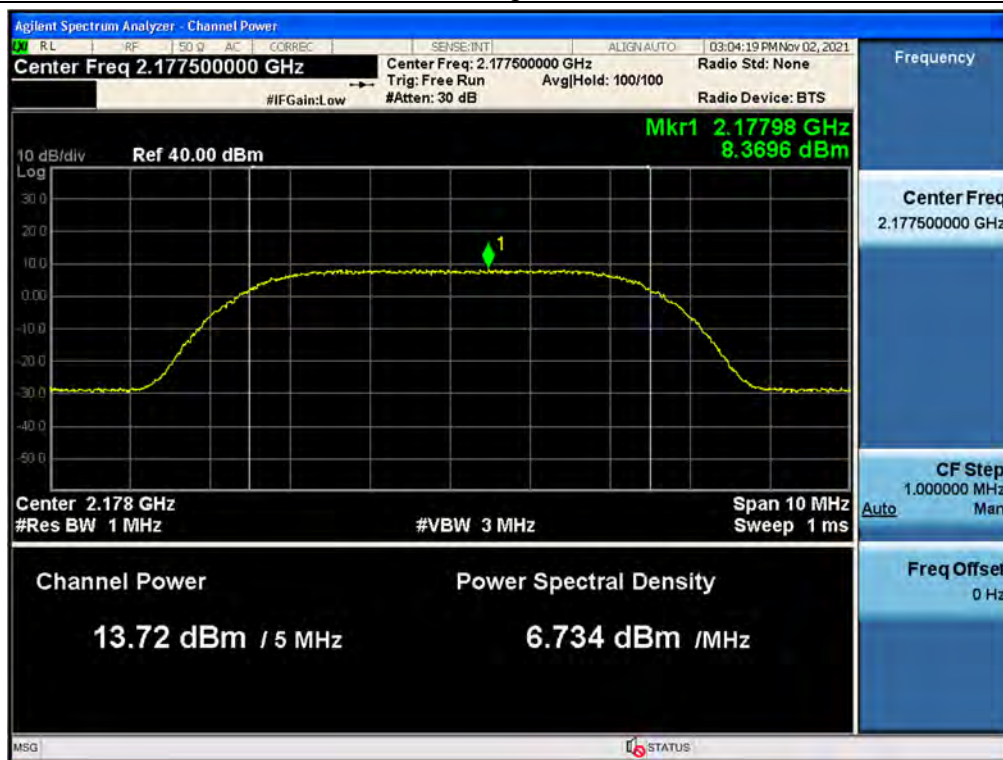
Antenna 1 / B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 5 MHz / 16QAM / High



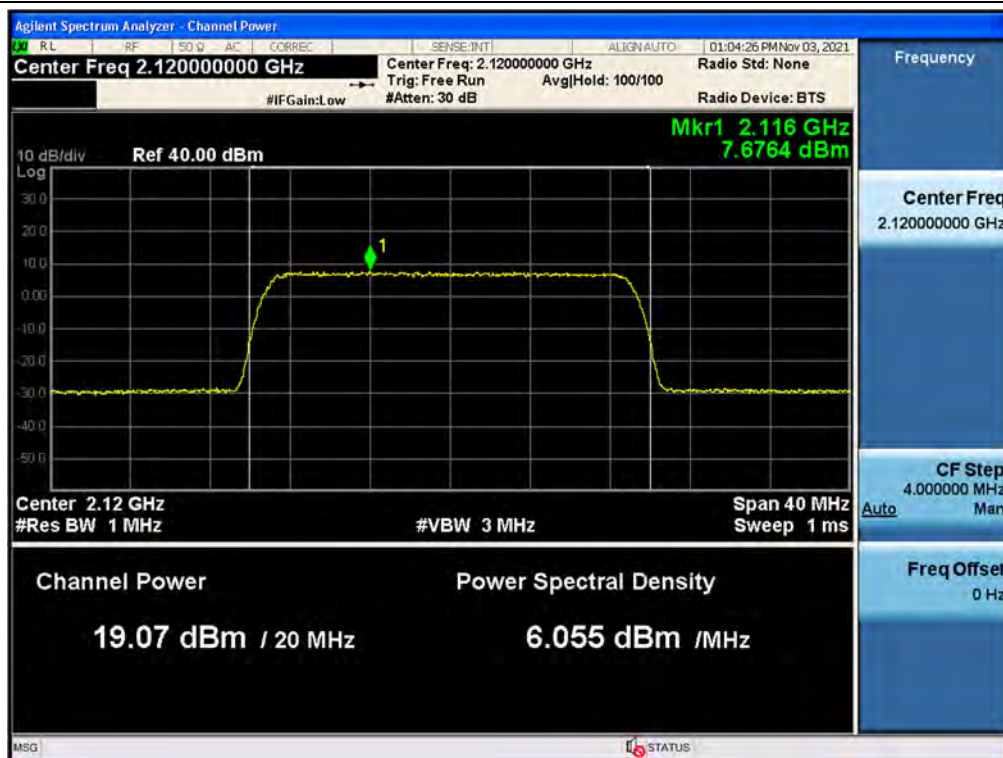
Antenna 1 / B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 20 MHz / QPSK / Low



Antenna 1 / B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 5 MHz / QPSK / High



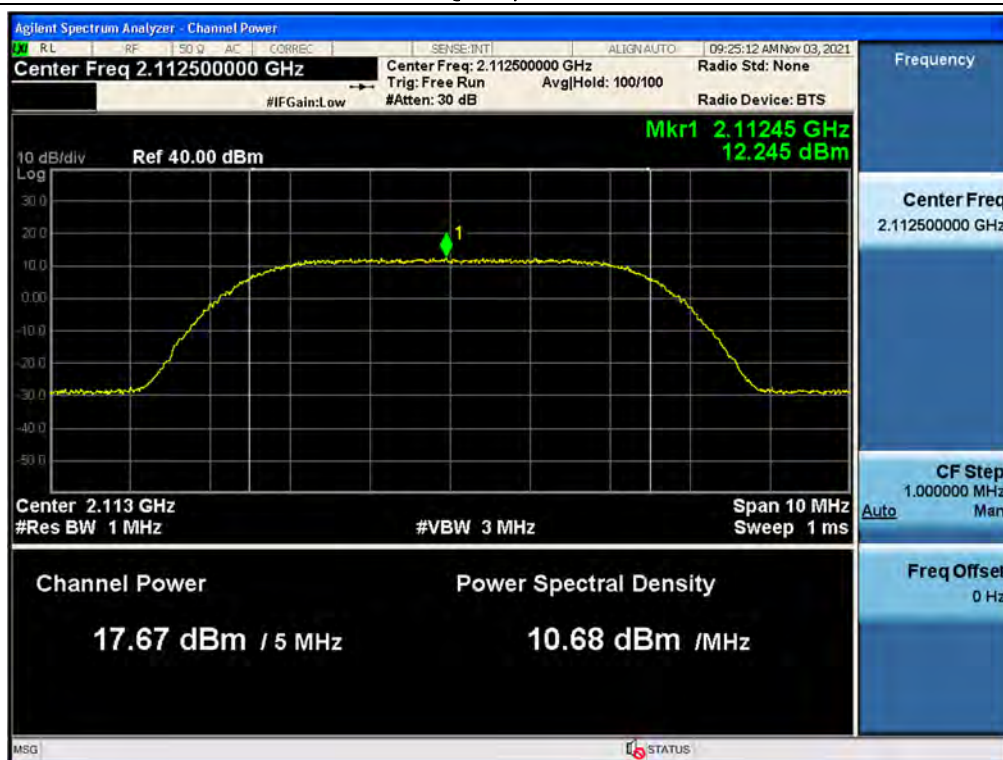
Antenna 1 / B66 LTE 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 20 MHz / QPSK / Low



Antenna 1 / B66 LTE 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 10 MHz / QPSK / High



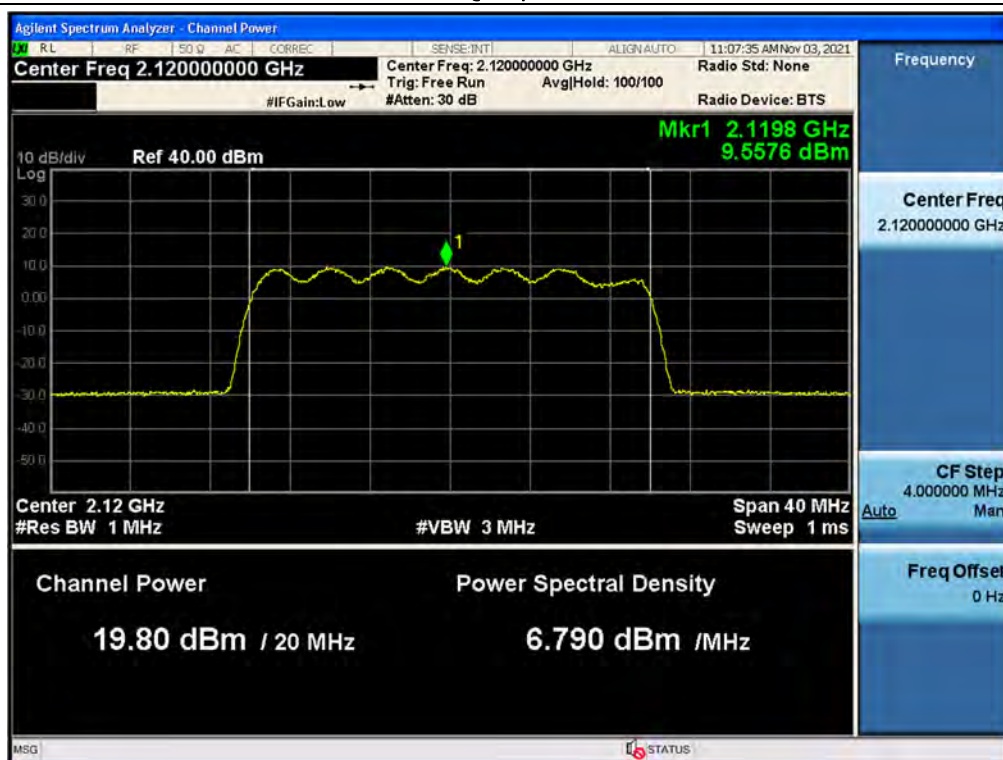
Antenna 1 / 5G NR n66 5 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 5 MHz / QPSK / Low



Antenna 1 / 5G NR n66 5 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 5 MHz / QPSK / High



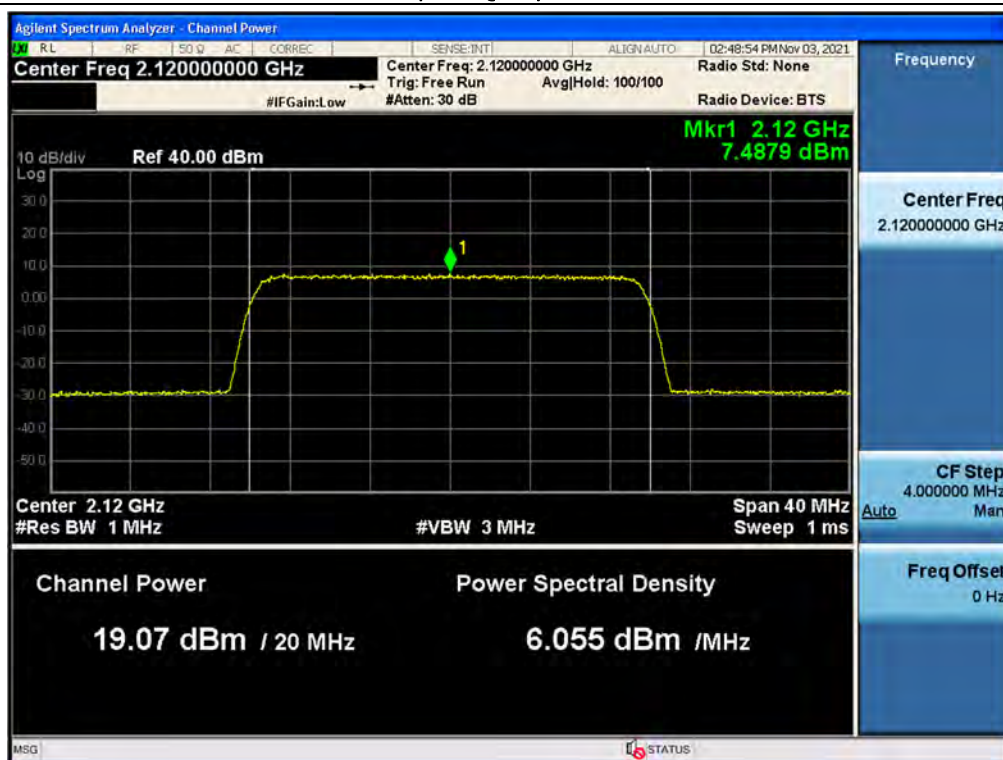
Antenna 1 / 5G NR n66 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 20 MHz / 16QAM / Low



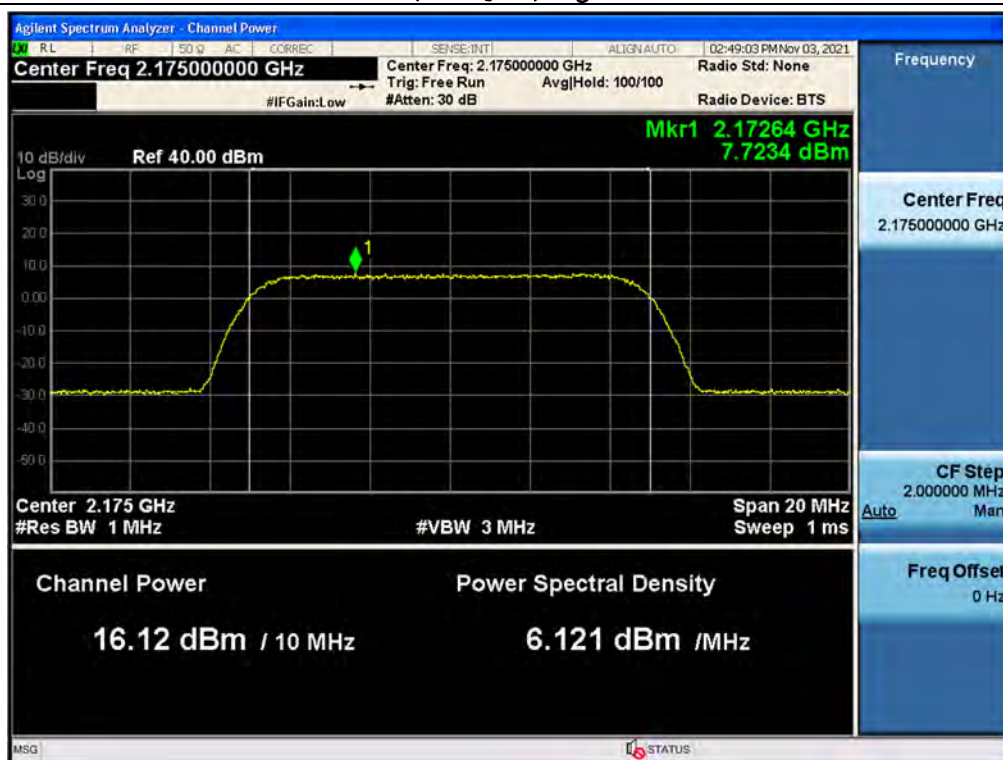
Antenna 1 / 5G NR n66 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 5 MHz / 16QAM / High



Antenna 1 / 5G NR n66 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 20 MHz / 256QAM / Low



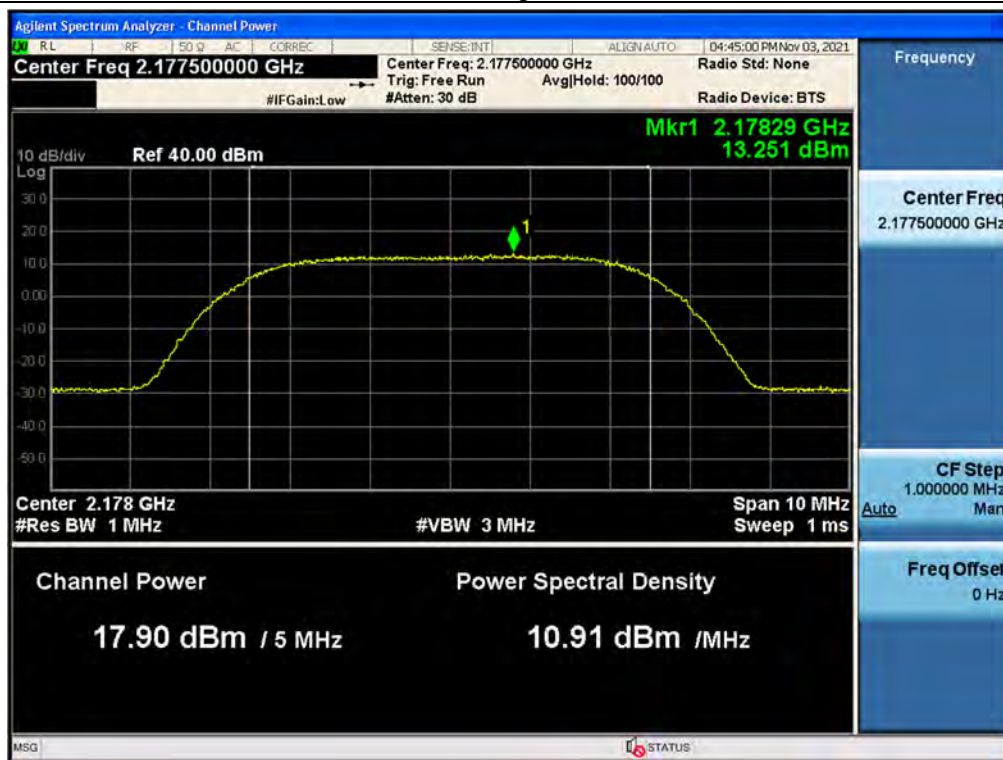
Antenna 1 / 5G NR n66 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 10 MHz / 256QAM / High



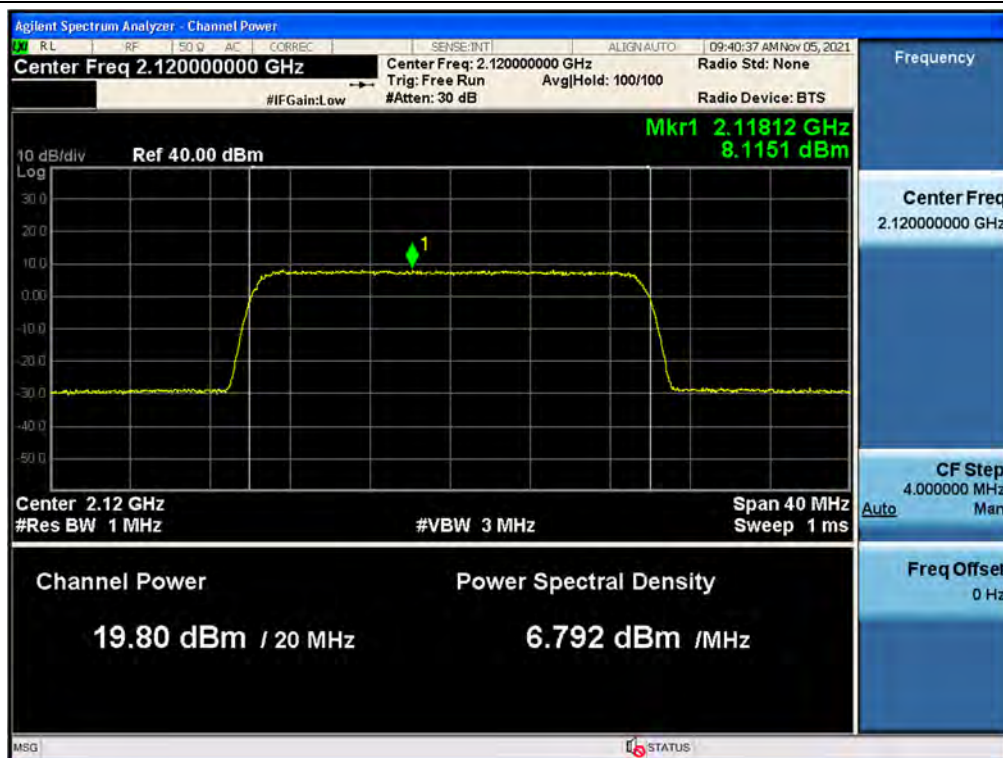
Antenna 1 / 5G NR n66 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 5 MHz / 16QAM / Low



Antenna 1 / 5G NR n66 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 5 MHz / 16QAM / High



Antenna 1 / 5G NR n66 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 20 MHz / 256QAM / Low



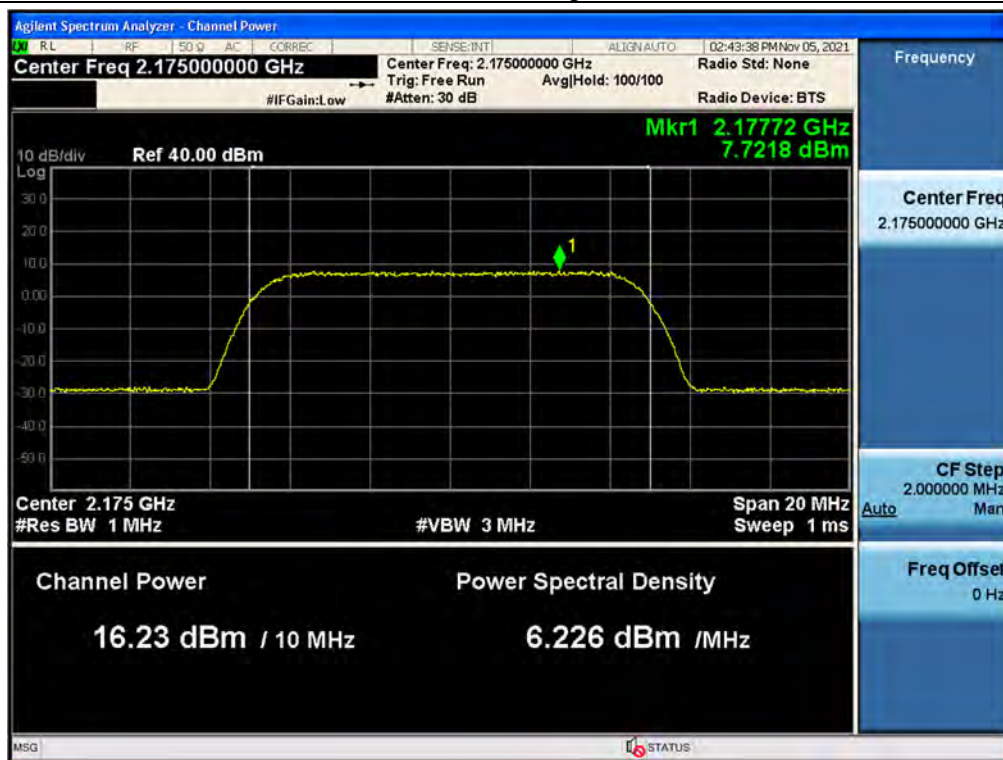
Antenna 1 / 5G NR n66 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 5 MHz / 256QAM / High



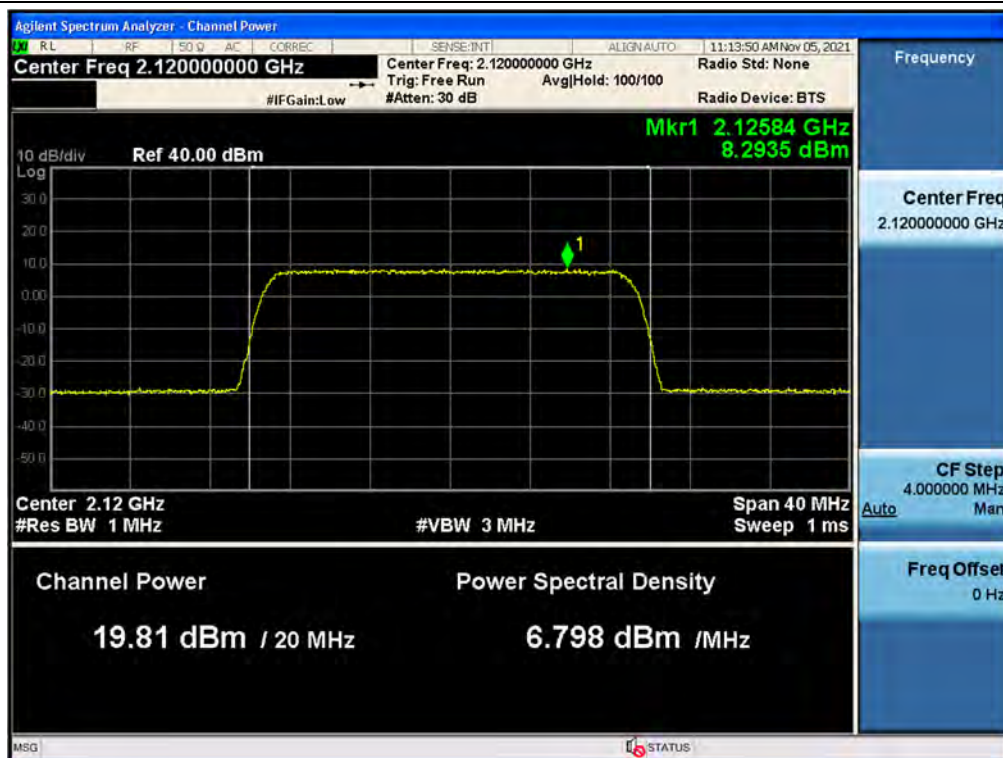
Antenna 1 / 5G NR n66 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 20 MHz / 256QAM / Low



Antenna 1 / 5G NR n66 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 10 MHz / 256QAM / High



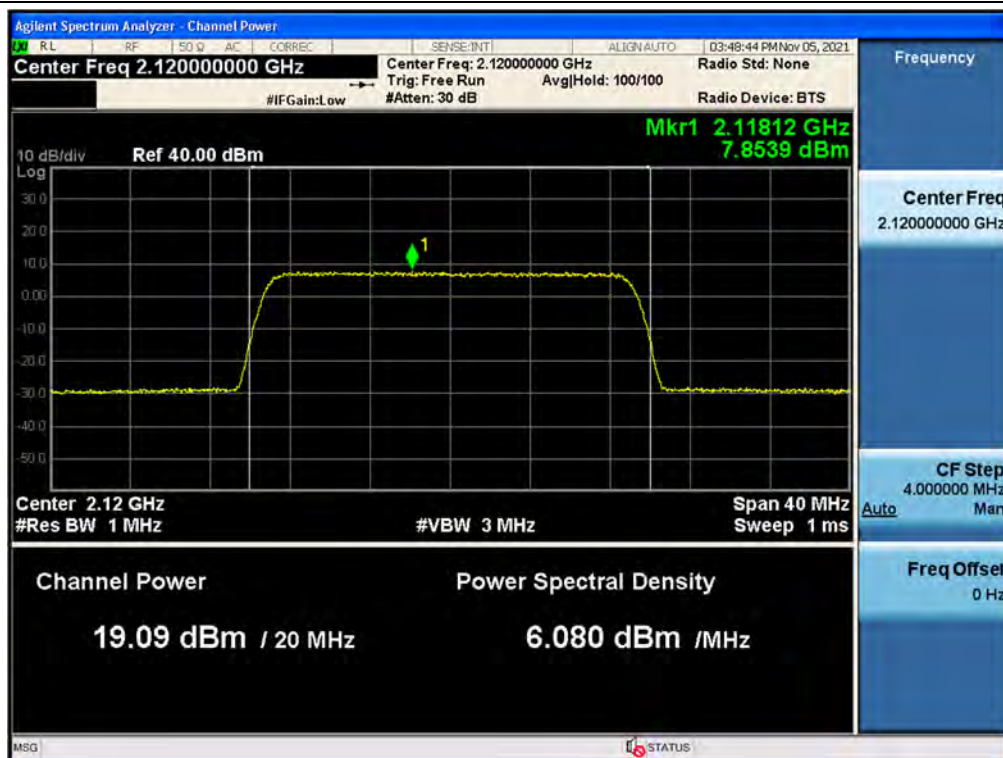
Antenna 1 / B66 LTE 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 20 MHz / 64QAM / Low



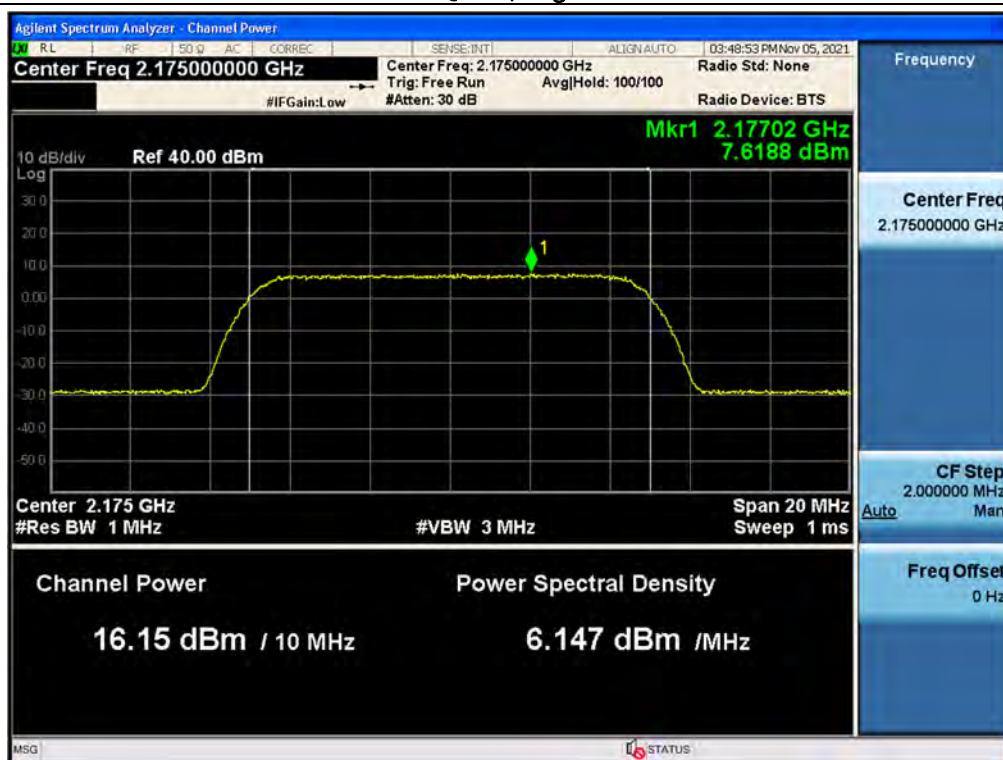
Antenna 1 / B66 LTE 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 5 MHz / 64QAM / High



Antenna 1 / B66 LTE 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 20 MHz / QPSK / Low



Antenna 1 / B66 LTE 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 10 MHz / QPSK / High



5.2. PAPR

Test Requirements:

§ 27.50 Power limits and duty cycle.

- (d) The following power and antenna height requirements apply to stations transmitting in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz and 2180-2200 MHz bands:
- (5) Equipment employed must be authorized in accordance with the provisions of § 24.51. Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (d)(6) of this section. 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.

Test Procedures:

The measurement is performed in accordance with Section 5.2.3.4 of ANSI C63.26.

The following guidelines are offered for performing a CCDF measurement..

- a) Set resolution/measurement bandwidth $\geq$ OBW or specified reference bandwidth.
- b) Set the number of counts to a value that stabilizes the measured CCDF curve.
- c) Set the measurement interval as follows:
 - 1) For continuous transmissions, set to the greater of $[10 \times (\text{number of points in sweep}) \times (\text{transmission symbol period})]$ or 1 ms.
 - 2) For burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize. Set the measurement interval to a time that is less than or equal to the burst duration.
 - 3) If there are several carriers in a single antenna port, the peak power shall be determined for each individual carrier (by disabling the other carriers while measuring the required carrier) and the total peak power calculated from the sum of the individual carrier peak powers.
- d) Record the maximum PAPR level associated with a probability of 0.1%.
- e) The peak power level is calculated from the sum of the PAPR value from step d) to the measured average power.

Note: The results of PAPR test shown above the frequency measured values are very small and similar trend for each port, so we are attached only the worst case plot.

Tabular data of PAPR

B13 LTE 5 MHz 1 Carrier

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	748.50	8.41
		Middle	751.00	8.38
		High	753.50	8.37
	16QAM	Low	748.50	8.45
		Middle	751.00	8.42
		High	753.50	8.39
	64QAM	Low	748.50	8.30
		Middle	751.00	8.29
		High	753.50	8.33
	256QAM	Low	748.50	8.47
		Middle	751.00	8.40
		High	753.50	8.44
1	QPSK	Low	748.50	8.41
		Middle	751.00	8.36
		High	753.50	8.41
	16QAM	Low	748.50	8.43
		Middle	751.00	8.37
		High	753.50	8.34
	64QAM	Low	748.50	8.38
		Middle	751.00	8.27
		High	753.50	8.28
	256QAM	Low	748.50	8.46
		Middle	751.00	8.43
		High	753.50	8.40

B13 LTE 10 MHz 1 Carrier

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Middle	751.00	8.40
	16QAM	Middle	751.00	8.33
	64QAM	Middle	751.00	8.41
	256QAM	Middle	751.00	8.48
1	QPSK	Middle	751.00	8.43
	16QAM	Middle	751.00	8.34
	64QAM	Middle	751.00	8.45
	256QAM	Middle	751.00	8.47

5G NR n13 5 MHz 1 Carrier

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	748.50	8.38
		Middle	751.00	8.37
		High	753.50	8.39
	16QAM	Low	748.50	8.47
		Middle	751.00	8.42
		High	753.50	8.47
	64QAM	Low	748.50	8.38
		Middle	751.00	8.39
		High	753.50	8.34
	256QAM	Low	748.50	8.38
		Middle	751.00	8.42
		High	753.50	8.39
1	QPSK	Low	748.50	8.45
		Middle	751.00	8.39
		High	753.50	8.39
	16QAM	Low	748.50	8.47
		Middle	751.00	8.44
		High	753.50	8.43
	64QAM	Low	748.50	8.40
		Middle	751.00	8.36
		High	753.50	8.32
	256QAM	Low	748.50	8.41
		Middle	751.00	8.43
		High	753.50	8.38

5G NR n13 10 MHz 1 Carrier

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Middle	751.00	8.41
	16QAM	Middle	751.00	8.44
	64QAM	Middle	751.00	8.45
	256QAM	Middle	751.00	8.47
1	QPSK	Middle	751.00	8.42
	16QAM	Middle	751.00	8.43
	64QAM	Middle	751.00	8.43
	256QAM	Middle	751.00	8.46

B66 LTE 5 MHz 1 Carrier

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2112.50	8.49
		Middle	2145.00	8.47
		High	2177.50	8.43
	16QAM	Low	2112.50	8.52
		Middle	2145.00	8.51
		High	2177.50	8.39
	64QAM	Low	2112.50	8.42
		Middle	2145.00	8.42
		High	2177.50	8.32
	256QAM	Low	2112.50	8.56
		Middle	2145.00	8.48
		High	2177.50	8.45
1	QPSK	Low	2112.50	8.48
		Middle	2145.00	8.51
		High	2177.50	8.54
	16QAM	Low	2112.50	8.55
		Middle	2145.00	8.44
		High	2177.50	8.51
	64QAM	Low	2112.50	8.39
		Middle	2145.00	8.39
		High	2177.50	8.38
	256QAM	Low	2112.50	8.55
		Middle	2145.00	8.49
		High	2177.50	8.53

B66 LTE 10 MHz 1 Carrier

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2115.00	8.48
		Middle	2145.00	8.53
		High	2175.00	8.43
	16QAM	Low	2115.00	8.44
		Middle	2145.00	8.38
		High	2175.00	8.33
	64QAM	Low	2115.00	8.49
		Middle	2145.00	8.42
		High	2175.00	8.43
	256QAM	Low	2115.00	8.53
		Middle	2145.00	8.53
		High	2175.00	8.50
1	QPSK	Low	2115.00	8.51
		Middle	2145.00	8.51
		High	2175.00	8.50
	16QAM	Low	2115.00	8.47
		Middle	2145.00	8.42
		High	2175.00	8.44
	64QAM	Low	2115.00	8.55
		Middle	2145.00	8.52
		High	2175.00	8.45
	256QAM	Low	2115.00	8.62
		Middle	2145.00	8.63
		High	2175.00	8.51

B66 LTE 15 MHz 1 Carrier

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2117.50	8.51
		Middle	2145.00	8.46
		High	2172.50	8.48
	16QAM	Low	2117.50	8.53
		Middle	2145.00	8.49
		High	2172.50	8.42
	64QAM	Low	2117.50	8.38
		Middle	2145.00	8.38
		High	2172.50	8.36
	256QAM	Low	2117.50	8.48
		Middle	2145.00	8.42
		High	2172.50	8.47
1	QPSK	Low	2117.50	8.50
		Middle	2145.00	8.52
		High	2172.50	8.45
	16QAM	Low	2117.50	8.50
		Middle	2145.00	8.51
		High	2172.50	8.53
	64QAM	Low	2117.50	8.46
		Middle	2145.00	8.43
		High	2172.50	8.39
	256QAM	Low	2117.50	8.49
		Middle	2145.00	8.53
		High	2172.50	8.53

B66 LTE 20 MHz 1 Carrier

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2120.00	8.47
		Middle	2145.00	8.51
		High	2170.00	8.50
	16QAM	Low	2120.00	8.48
		Middle	2145.00	8.44
		High	2170.00	8.45
	64QAM	Low	2120.00	8.43
		Middle	2145.00	8.43
		High	2170.00	8.41
	256QAM	Low	2120.00	8.51
		Middle	2145.00	8.49
		High	2170.00	8.42
1	QPSK	Low	2120.00	8.52
		Middle	2145.00	8.54
		High	2170.00	8.54
	16QAM	Low	2120.00	8.53
		Middle	2145.00	8.52
		High	2170.00	8.49
	64QAM	Low	2120.00	8.48
		Middle	2145.00	8.46
		High	2170.00	8.45
	256QAM	Low	2120.00	8.56
		Middle	2145.00	8.55
		High	2170.00	8.48

5G NR n66 5 MHz 1 Carrier

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2112.50	8.40
		Middle	2145.00	8.46
		High	2177.50	8.41
	16QAM	Low	2112.50	8.53
		Middle	2145.00	8.46
		High	2177.50	8.52
	64QAM	Low	2112.50	8.51
		Middle	2145.00	8.40
		High	2177.50	8.35
	256QAM	Low	2112.50	8.51
		Middle	2145.00	8.49
		High	2177.50	8.44
1	QPSK	Low	2112.50	8.48
		Middle	2145.00	8.41
		High	2177.50	8.45
	16QAM	Low	2112.50	8.56
		Middle	2145.00	8.49
		High	2177.50	8.57
	64QAM	Low	2112.50	8.45
		Middle	2145.00	8.42
		High	2177.50	8.43
	256QAM	Low	2112.50	8.55
		Middle	2145.00	8.46
		High	2177.50	8.51

5G NR n66 10 MHz 1 Carrier

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2115.00	8.47
		Middle	2145.00	8.47
		High	2175.00	8.43
	16QAM	Low	2115.00	8.47
		Middle	2145.00	8.46
		High	2175.00	8.46
	64QAM	Low	2115.00	8.51
		Middle	2145.00	8.45
		High	2175.00	8.41
	256QAM	Low	2115.00	8.57
		Middle	2145.00	8.49
		High	2175.00	8.51
1	QPSK	Low	2115.00	8.53
		Middle	2145.00	8.51
		High	2175.00	8.49
	16QAM	Low	2115.00	8.52
		Middle	2145.00	8.54
		High	2175.00	8.52
	64QAM	Low	2115.00	8.53
		Middle	2145.00	8.53
		High	2175.00	8.43
	256QAM	Low	2115.00	8.58
		Middle	2145.00	8.56
		High	2175.00	8.47

5G NR n66 15 MHz 1 Carrier

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2117.50	8.49
		Middle	2145.00	8.48
		High	2172.50	8.45
	16QAM	Low	2117.50	8.50
		Middle	2145.00	8.48
		High	2172.50	8.46
	64QAM	Low	2117.50	8.49
		Middle	2145.00	8.53
		High	2172.50	8.50
	256QAM	Low	2117.50	8.47
		Middle	2145.00	8.44
		High	2172.50	8.38
1	QPSK	Low	2117.50	8.59
		Middle	2145.00	8.52
		High	2172.50	8.47
	16QAM	Low	2117.50	8.57
		Middle	2145.00	8.55
		High	2172.50	8.48
	64QAM	Low	2117.50	8.61
		Middle	2145.00	8.57
		High	2172.50	8.53
	256QAM	Low	2117.50	8.53
		Middle	2145.00	8.44
		High	2172.50	8.45

5G NR n66 20 MHz 1 Carrier

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2120.00	8.42
		Middle	2145.00	8.40
		High	2170.00	8.36
	16QAM	Low	2120.00	8.46
		Middle	2145.00	8.42
		High	2170.00	8.37
	64QAM	Low	2120.00	8.50
		Middle	2145.00	8.53
		High	2170.00	8.46
	256QAM	Low	2120.00	8.44
		Middle	2145.00	8.40
		High	2170.00	8.36
1	QPSK	Low	2120.00	8.42
		Middle	2145.00	8.42
		High	2170.00	8.35
	16QAM	Low	2120.00	8.52
		Middle	2145.00	8.50
		High	2170.00	8.49
	64QAM	Low	2120.00	8.57
		Middle	2145.00	8.49
		High	2170.00	8.47
	256QAM	Low	2120.00	8.54
		Middle	2145.00	8.46
		High	2170.00	8.50

Tabular data of Contiguous PAPR

B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2115.00	10.27
		Middle	2145.00	10.31
		High	2175.00	10.20
	16QAM	Low	2115.00	10.47
		Middle	2145.00	10.35
		High	2175.00	10.28
	64QAM	Low	2115.00	10.40
		Middle	2145.00	10.26
		High	2175.00	10.32
	256QAM	Low	2115.00	10.32
		Middle	2145.00	10.25
		High	2175.00	10.18
1	QPSK	Low	2115.00	10.60
		Middle	2145.00	10.44
		High	2175.00	10.23
	16QAM	Low	2115.00	10.37
		Middle	2145.00	10.43
		High	2175.00	10.36
	64QAM	Low	2115.00	10.25
		Middle	2145.00	10.34
		High	2175.00	10.34
	256QAM	Low	2115.00	10.42
		Middle	2145.00	10.46
		High	2175.00	10.30

B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2122.50	8.49
		Middle	2145.00	8.50
		High	2167.50	8.48
	16QAM	Low	2122.50	8.47
		Middle	2145.00	8.46
		High	2167.50	8.51
	64QAM	Low	2122.50	8.39
		Middle	2145.00	8.51
		High	2167.50	8.51
	256QAM	Low	2122.50	8.52
		Middle	2145.00	8.49
		High	2167.50	8.54
1	QPSK	Low	2122.50	8.52
		Middle	2145.00	8.54
		High	2167.50	8.55
	16QAM	Low	2122.50	8.53
		Middle	2145.00	8.49
		High	2167.50	8.50
	64QAM	Low	2122.50	8.50
		Middle	2145.00	8.52
		High	2167.50	8.43
	256QAM	Low	2122.50	8.56
		Middle	2145.00	8.49
		High	2167.50	8.58

B66 LTE 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier]

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2125.00	8.66
		Middle	2145.00	8.61
		High	2165.00	8.59
	16QAM	Low	2125.00	8.47
		Middle	2145.00	8.51
		High	2165.00	8.51
	64QAM	Low	2125.00	8.58
		Middle	2145.00	8.52
		High	2165.00	8.53
	256QAM	Low	2125.00	8.60
		Middle	2145.00	8.63
		High	2165.00	8.54
1	QPSK	Low	2125.00	8.68
		Middle	2145.00	8.57
		High	2165.00	8.62
	16QAM	Low	2125.00	8.56
		Middle	2145.00	8.53
		High	2165.00	8.51
	64QAM	Low	2125.00	8.61
		Middle	2145.00	8.58
		High	2165.00	8.60
	256QAM	Low	2125.00	8.64
		Middle	2145.00	8.57
		High	2165.00	8.62

5G NR n66 5 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier]

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2115.00	10.33
		Middle	2145.00	10.37
		High	2175.00	10.36
	16QAM	Low	2115.00	10.34
		Middle	2145.00	10.40
		High	2175.00	10.23
	64QAM	Low	2115.00	10.27
		Middle	2145.00	10.33
		High	2175.00	10.25
	256QAM	Low	2115.00	10.36
		Middle	2145.00	10.41
		High	2175.00	10.36
1	QPSK	Low	2115.00	10.38
		Middle	2145.00	10.34
		High	2175.00	10.39
	16QAM	Low	2115.00	10.49
		Middle	2145.00	10.44
		High	2175.00	10.35
	64QAM	Low	2115.00	10.37
		Middle	2145.00	10.37
		High	2175.00	10.31
	256QAM	Low	2115.00	10.43
		Middle	2145.00	10.48
		High	2175.00	10.42

5G NR n66 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier]

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2122.50	8.46
		Middle	2145.00	8.42
		High	2167.50	8.45
	16QAM	Low	2122.50	8.49
		Middle	2145.00	8.44
		High	2167.50	8.38
	64QAM	Low	2122.50	8.53
		Middle	2145.00	8.50
		High	2167.50	8.53
	256QAM	Low	2122.50	8.44
		Middle	2145.00	8.41
		High	2167.50	8.44
1	QPSK	Low	2122.50	8.49
		Middle	2145.00	8.49
		High	2167.50	8.46
	16QAM	Low	2122.50	8.55
		Middle	2145.00	8.49
		High	2167.50	8.44
	64QAM	Low	2122.50	8.56
		Middle	2145.00	8.50
		High	2167.50	8.52
	256QAM	Low	2122.50	8.45
		Middle	2145.00	8.48
		High	2167.50	8.48

5G NR n66 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier]

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2125.00	8.61
		Middle	2145.00	8.54
		High	2165.00	8.56
	16QAM	Low	2125.00	8.53
		Middle	2145.00	8.51
		High	2165.00	8.48
	64QAM	Low	2125.00	8.58
		Middle	2145.00	8.57
		High	2165.00	8.54
	256QAM	Low	2125.00	8.52
		Middle	2145.00	8.53
		High	2165.00	8.47
1	QPSK	Low	2125.00	8.61
		Middle	2145.00	8.60
		High	2165.00	8.59
	16QAM	Low	2125.00	8.57
		Middle	2145.00	8.58
		High	2165.00	8.54
	64QAM	Low	2125.00	8.63
		Middle	2145.00	8.57
		High	2165.00	8.64
	256QAM	Low	2125.00	8.55
		Middle	2145.00	8.56
		High	2165.00	8.49

5G NR n66 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2115.00	8.50
		Middle	2145.00	8.43
		High	2175.00	8.40
	16QAM	Low	2115.00	8.49
		Middle	2145.00	8.49
		High	2175.00	8.48
	64QAM	Low	2115.00	8.52
		Middle	2145.00	8.39
		High	2175.00	8.42
	256QAM	Low	2115.00	8.44
		Middle	2145.00	8.37
		High	2175.00	8.34
1	QPSK	Low	2115.00	8.53
		Middle	2145.00	8.50
		High	2175.00	8.45
	16QAM	Low	2115.00	8.49
		Middle	2145.00	8.53
		High	2175.00	8.48
	64QAM	Low	2115.00	8.50
		Middle	2145.00	8.43
		High	2175.00	8.45
	256QAM	Low	2115.00	8.48
		Middle	2145.00	8.50
		High	2175.00	8.45

5G NR n66 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2122.50	8.45
		Middle	2145.00	8.44
		High	2167.50	8.36
	16QAM	Low	2122.50	8.43
		Middle	2145.00	8.42
		High	2167.50	8.39
	64QAM	Low	2122.50	8.46
		Middle	2145.00	8.41
		High	2167.50	8.51
	256QAM	Low	2122.50	8.43
		Middle	2145.00	8.43
		High	2167.50	8.37
1	QPSK	Low	2122.50	8.46
		Middle	2145.00	8.39
		High	2167.50	8.42
	16QAM	Low	2122.50	8.43
		Middle	2145.00	8.46
		High	2167.50	8.44
	64QAM	Low	2122.50	8.48
		Middle	2145.00	8.45
		High	2167.50	8.47
	256QAM	Low	2122.50	8.45
		Middle	2145.00	8.40
		High	2167.50	8.38

5G NR n66 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier]

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2125.00	8.44
		Middle	2145.00	8.40
		High	2165.00	8.40
	16QAM	Low	2125.00	8.42
		Middle	2145.00	8.43
		High	2165.00	8.44
	64QAM	Low	2125.00	8.46
		Middle	2145.00	8.41
		High	2165.00	8.43
	256QAM	Low	2125.00	8.42
		Middle	2145.00	8.42
		High	2165.00	8.35
1	QPSK	Low	2125.00	8.50
		Middle	2145.00	8.47
		High	2165.00	8.49
	16QAM	Low	2125.00	8.46
		Middle	2145.00	8.45
		High	2165.00	8.45
	64QAM	Low	2125.00	8.55
		Middle	2145.00	8.49
		High	2165.00	8.49
	256QAM	Low	2125.00	8.47
		Middle	2145.00	8.48
		High	2165.00	8.44

B66 LTE 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier]

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2122.50	8.49
		Middle	2145.00	8.46
		High	2167.50	8.46
	16QAM	Low	2122.50	8.44
		Middle	2145.00	8.46
		High	2167.50	8.42
	64QAM	Low	2122.50	8.50
		Middle	2145.00	8.38
		High	2167.50	8.46
	256QAM	Low	2122.50	8.49
		Middle	2145.00	8.41
		High	2167.50	8.41
1	QPSK	Low	2122.50	8.54
		Middle	2145.00	8.46
		High	2167.50	8.49
	16QAM	Low	2122.50	8.53
		Middle	2145.00	8.51
		High	2167.50	8.49
	64QAM	Low	2122.50	8.47
		Middle	2145.00	8.45
		High	2167.50	8.44
	256QAM	Low	2122.50	8.53
		Middle	2145.00	8.44
		High	2167.50	8.40

B66 LTE 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier]

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2125.00	8.52
		Middle	2145.00	8.39
		High	2165.00	8.40
	16QAM	Low	2125.00	8.43
		Middle	2145.00	8.39
		High	2165.00	8.37
	64QAM	Low	2125.00	8.41
		Middle	2145.00	8.35
		High	2165.00	8.42
	256QAM	Low	2125.00	8.46
		Middle	2145.00	8.44
		High	2165.00	8.47
1	QPSK	Low	2125.00	8.48
		Middle	2145.00	8.45
		High	2165.00	8.48
	16QAM	Low	2125.00	8.43
		Middle	2145.00	8.48
		High	2165.00	8.42
	64QAM	Low	2125.00	8.46
		Middle	2145.00	8.44
		High	2165.00	8.37
	256QAM	Low	2125.00	8.48
		Middle	2145.00	8.49
		High	2165.00	8.47

Tabular data of Non-Contiguous PAPR
B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Ant.	Modulation	B66 LTE 5 MHz		B66 LTE 5 MHz	
		Frequency (MHz)	Measured Value (dB)	Frequency (MHz)	Measured Value (dB)
0	QPSK	2112.50	8.34	2177.50	8.33
	16QAM	2112.50	8.37	2177.50	8.30
	64QAM	2112.50	8.23	2177.50	8.21
	256QAM	2112.50	8.34	2177.50	8.32
1	QPSK	2112.50	8.33	2177.50	8.36
	16QAM	2112.50	8.41	2177.50	8.37
	64QAM	2112.50	8.31	2177.50	8.29
	256QAM	2112.50	8.33	2177.50	8.35

B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Ant.	Modulation	B66 LTE 20 MHz		B66 LTE 5 MHz	
		Frequency (MHz)	Measured Value (dB)	Frequency (MHz)	Measured Value (dB)
0	QPSK	2120.00	8.49	2177.50	8.39
	16QAM	2120.00	8.45	2177.50	8.38
	64QAM	2120.00	8.40	2177.50	8.32
	256QAM	2120.00	8.46	2177.50	8.44
1	QPSK	2120.00	8.49	2177.50	8.42
	16QAM	2120.00	8.49	2177.50	8.42
	64QAM	2120.00	8.39	2177.50	8.36
	256QAM	2120.00	8.52	2177.50	8.45

B66 LTE 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier]

Ant.	Modulation	B66 LTE 20 MHz		B66 LTE 10 MHz	
		Frequency (MHz)	Measured Value (dB)	Frequency (MHz)	Measured Value (dB)
0	QPSK	2120.00	8.42	2175.00	8.45
	16QAM	2120.00	8.52	2175.00	8.36
	64QAM	2120.00	8.45	2175.00	8.39
	256QAM	2120.00	8.55	2175.00	8.51
1	QPSK	2120.00	8.46	2175.00	8.46
	16QAM	2120.00	8.49	2175.00	8.36
	64QAM	2120.00	8.39	2175.00	8.44
	256QAM	2120.00	8.52	2175.00	8.48

5G NR n66 5 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier]

Ant.	Modulation	5G NR n66 5 MHz		5G NR n66 5 MHz	
		Frequency (MHz)	Measured Value (dB)	Frequency (MHz)	Measured Value (dB)
0	QPSK	2112.50	8.29	2177.50	8.26
	16QAM	2112.50	8.37	2177.50	8.36
	64QAM	2112.50	8.33	2177.50	8.26
	256QAM	2112.50	8.33	2177.50	8.33
1	QPSK	2112.50	8.37	2177.50	8.42
	16QAM	2112.50	8.44	2177.50	8.37
	64QAM	2112.50	8.35	2177.50	8.38
	256QAM	2112.50	8.39	2177.50	8.41

5G NR n66 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier]

Ant.	Modulation	5G NR n66 20 MHz		5G NR n66 5 MHz	
		Frequency (MHz)	Measured Value (dB)	Frequency (MHz)	Measured Value (dB)
0	QPSK	2120.00	8.40	2177.50	8.42
	16QAM	2120.00	8.42	2177.50	8.43
	64QAM	2120.00	8.50	2177.50	8.40
	256QAM	2120.00	8.44	2177.50	8.48
1	QPSK	2120.00	8.44	2177.50	8.36
	16QAM	2120.00	8.47	2177.50	8.50
	64QAM	2120.00	8.49	2177.50	8.37
	256QAM	2120.00	8.48	2177.50	8.49

5G NR n66 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier]

Ant.	Modulation	5G NR n66 20 MHz		5G NR n66 10 MHz	
		Frequency (MHz)	Measured Value (dB)	Frequency (MHz)	Measured Value (dB)
0	QPSK	2120.00	8.37	2175.00	8.36
	16QAM	2120.00	8.46	2175.00	8.47
	64QAM	2120.00	8.44	2175.00	8.40
	256QAM	2120.00	8.45	2175.00	8.50
1	QPSK	2120.00	8.42	2175.00	8.41
	16QAM	2120.00	8.49	2175.00	8.45
	64QAM	2120.00	8.49	2175.00	8.39
	256QAM	2120.00	8.48	2175.00	8.53

5G NR n66 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Ant.	Modulation	5G NR n66 5 MHz		B66 LTE 5 MHz	
		Frequency (MHz)	Measured Value (dB)	Frequency (MHz)	Measured Value (dB)
0	QPSK	2112.50	8.46	2177.50	8.42
	16QAM	2112.50	8.49	2177.50	8.48
	64QAM	2112.50	8.37	2177.50	8.43
	256QAM	2112.50	8.51	2177.50	8.43
1	QPSK	2112.50	8.47	2177.50	8.47
	16QAM	2112.50	8.57	2177.50	8.48
	64QAM	2112.50	8.44	2177.50	8.58
	256QAM	2112.50	8.45	2177.50	8.42

5G NR n66 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Ant.	Modulation	5G NR n66 20 MHz		B66 LTE 5 MHz	
		Frequency (MHz)	Measured Value (dB)	Frequency (MHz)	Measured Value (dB)
0	QPSK	2120.00	8.39	2177.50	8.47
	16QAM	2120.00	8.40	2177.50	8.50
	64QAM	2120.00	8.51	2177.50	8.43
	256QAM	2120.00	8.45	2177.50	8.38
1	QPSK	2120.00	8.47	2177.50	8.43
	16QAM	2120.00	8.45	2177.50	8.46
	64QAM	2120.00	8.50	2177.50	8.49
	256QAM	2120.00	8.45	2177.50	8.36

5G NR n66 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier]

Ant.	Modulation	5G NR n66 20 MHz		B66 LTE 10 MHz	
		Frequency (MHz)	Measured Value (dB)	Frequency (MHz)	Measured Value (dB)
0	QPSK	2120.00	8.40	2175.00	8.44
	16QAM	2120.00	8.38	2175.00	8.36
	64QAM	2120.00	8.46	2175.00	8.45
	256QAM	2120.00	8.43	2175.00	8.43
1	QPSK	2120.00	8.42	2175.00	8.47
	16QAM	2120.00	8.41	2175.00	8.44
	64QAM	2120.00	8.49	2175.00	8.46
	256QAM	2120.00	8.44	2175.00	8.49

B66 LTE 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier]

Ant.	Modulation	B66 LTE 20 MHz		5G NR n66 5 MHz	
		Frequency (MHz)	Measured Value (dB)	Frequency (MHz)	Measured Value (dB)
0	QPSK	2120.00	8.52	2177.50	8.32
	16QAM	2120.00	8.52	2177.50	8.34
	64QAM	2120.00	8.39	2177.50	8.20
	256QAM	2120.00	8.51	2177.50	8.52
1	QPSK	2120.00	8.52	2177.50	8.33
	16QAM	2120.00	8.51	2177.50	8.36
	64QAM	2120.00	8.40	2177.50	8.18
	256QAM	2120.00	8.49	2177.50	8.58

B66 LTE 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier]

Ant.	Modulation	B66 LTE 20 MHz		5G NR n66 10 MHz	
		Frequency (MHz)	Measured Value (dB)	Frequency (MHz)	Measured Value (dB)
0	QPSK	2120.00	8.52	2175.00	8.37
	16QAM	2120.00	8.48	2175.00	8.40
	64QAM	2120.00	8.37	2175.00	8.11
	256QAM	2120.00	8.56	2175.00	8.53
1	QPSK	2120.00	8.50	2175.00	8.44
	16QAM	2120.00	8.51	2175.00	8.45
	64QAM	2120.00	8.40	2175.00	8.10
	256QAM	2120.00	8.60	2175.00	8.54

Plot Data of PAPR

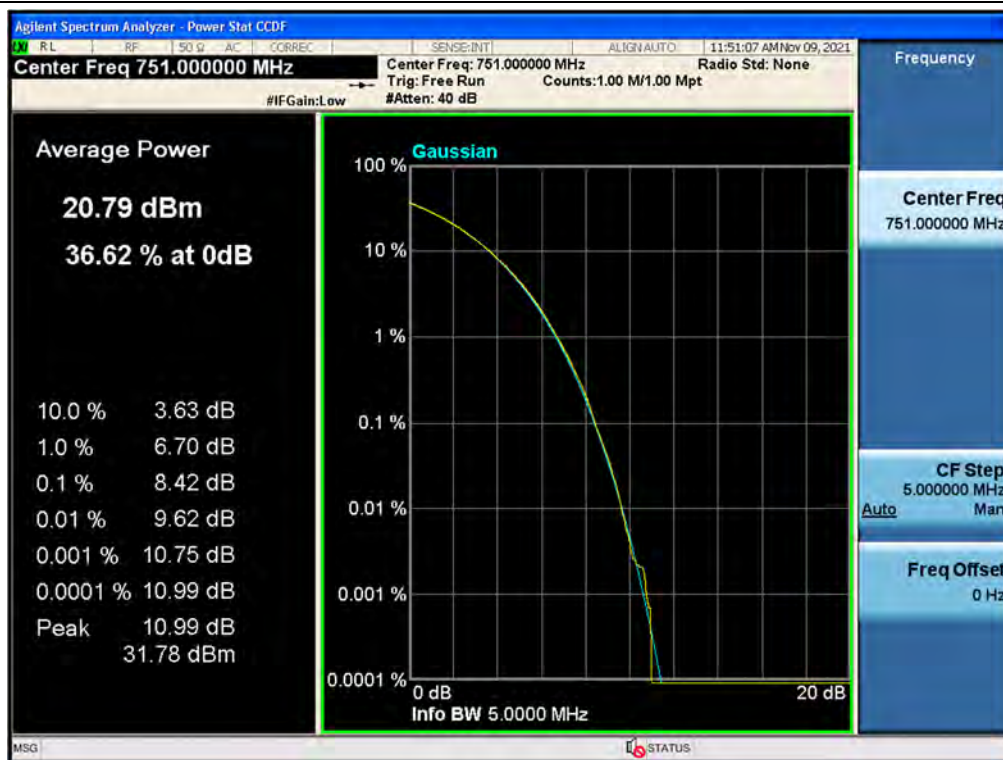
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Antenna 1 / B13 LTE 10 MHz 1 Carrier / QPSK / Middle



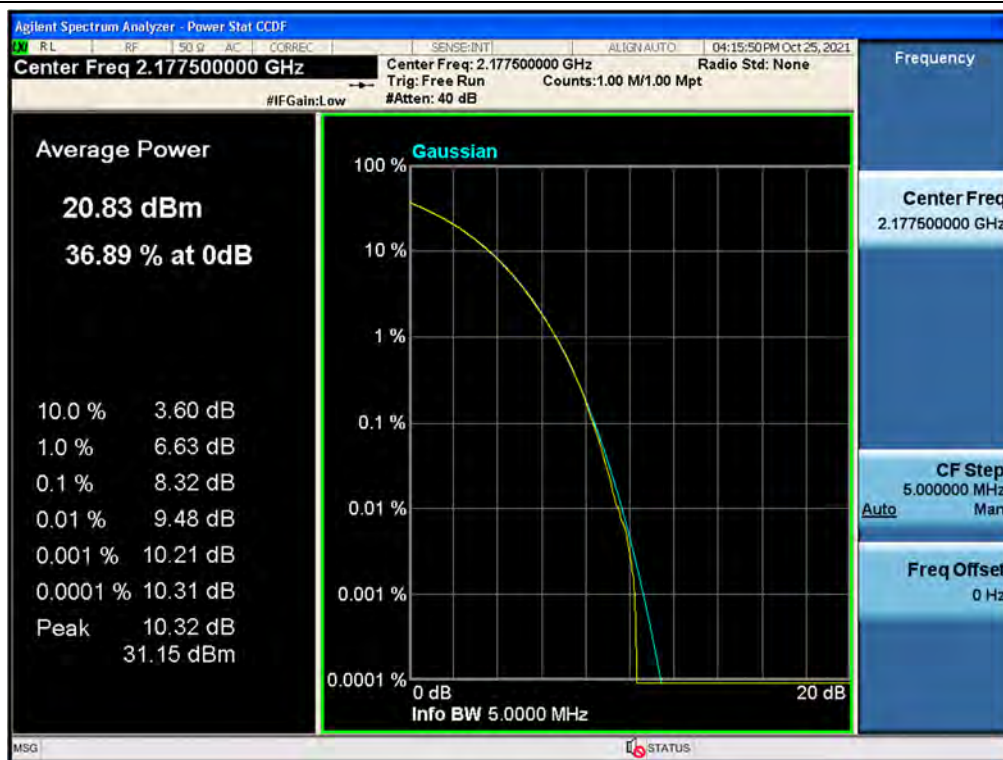
Antenna 0 / 5G NR n13 5 MHz 1 Carrier / 256QAM / Middle



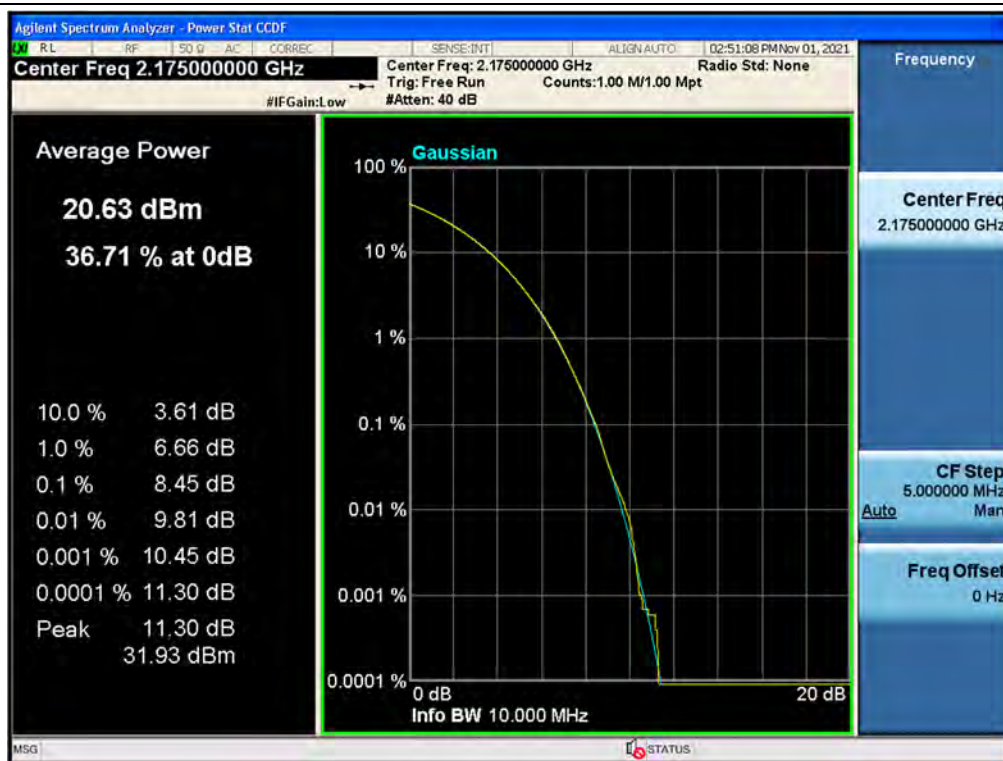
Antenna 1 / 5G NR n13 10 MHz 1 Carrier / 16QAM / Middle



Antenna 0 / B66 LTE 5 MHz 1 Carrier / 64QAM / High



Antenna 1 / B66 LTE 10 MHz 1 Carrier / 64QAM / High



Antenna 1 / B66 LTE 15 MHz 1 Carrier / 64QAM / High



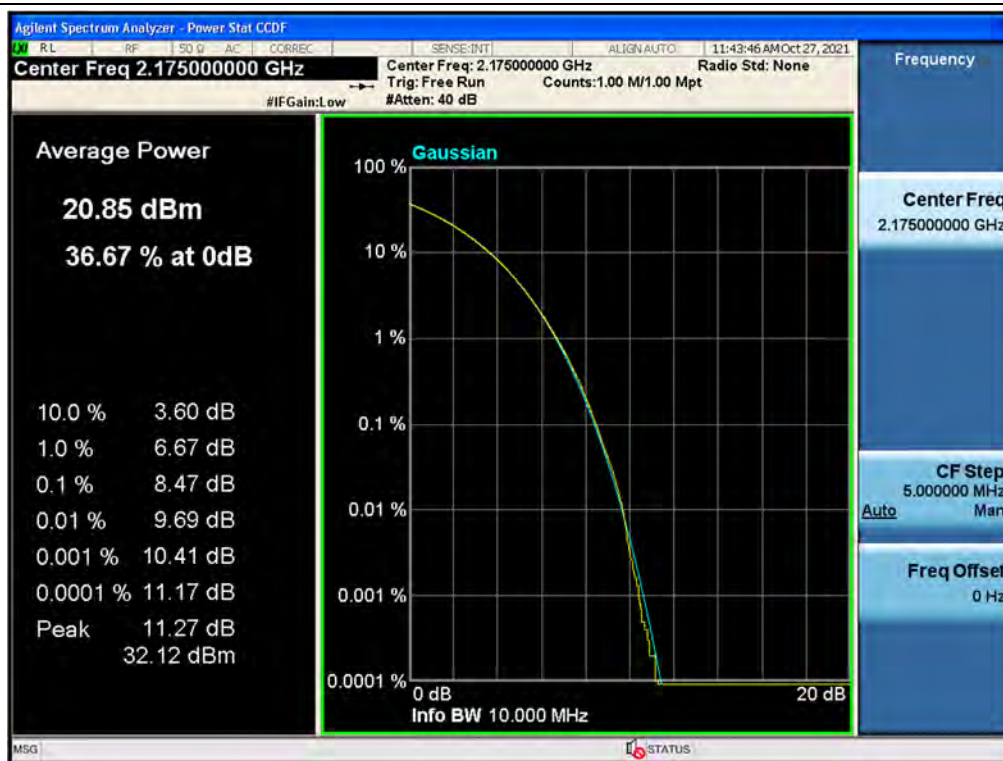
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Antenna 0 / 5G NR n66 5 MHz 1 Carrier / 16QAM / High



Antenna 1 / 5G NR n66 10 MHz 1 Carrier / 256QAM / High



Antenna 0 / 5G NR n66 15 MHz 1 Carrier / 64QAM / High



Antenna 1 / 5G NR n66 20 MHz 1 Carrier / 64QAM / High



Antenna 1 / B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Contiguous / 64QAM / High



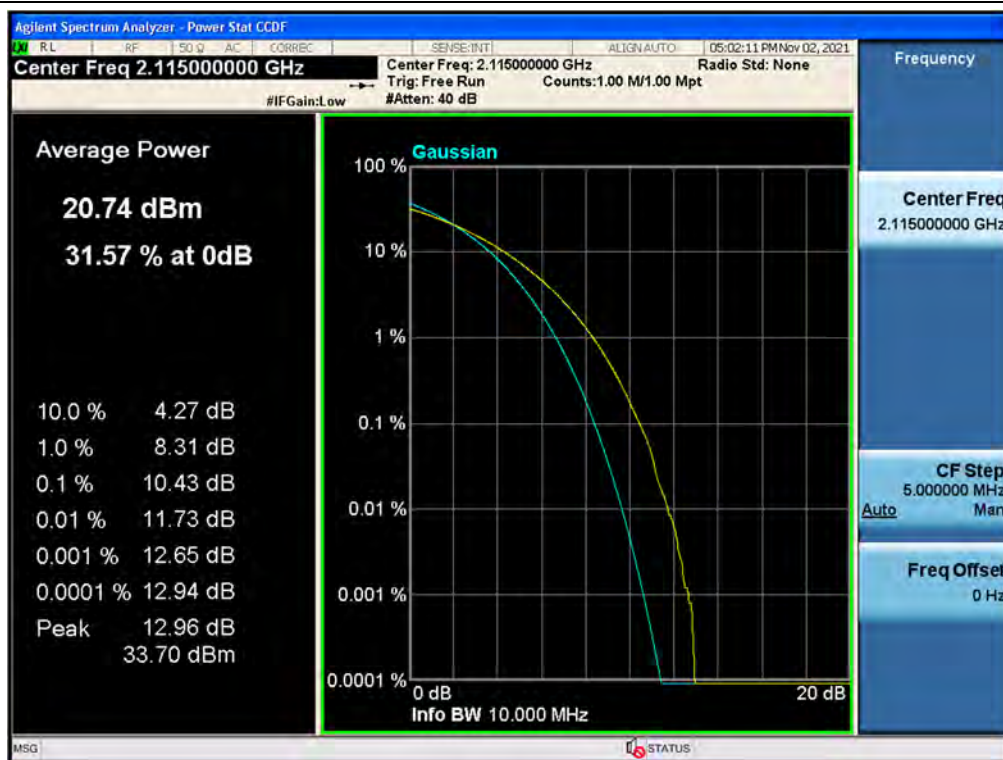
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Antenna 1 / B66 LTE 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier] / Contiguous / QPSK / High



Antenna 1 / 5G NR n66 5 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier] / Contiguous / 256QAM / Low



Antenna 1 / 5G NR n66 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier] / Contiguous / 256QAM / High



Antenna 1 / 5G NR n66 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier] / Contiguous / QPSK / High



Antenna 1 / 5G NR n66 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Contiguous / 256QAM / High



Antenna 1 / 5G NR n66 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Contiguous / 64QAM / High



Antenna 1 / 5G NR n66 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier] / Contiguous / 256QAM / High



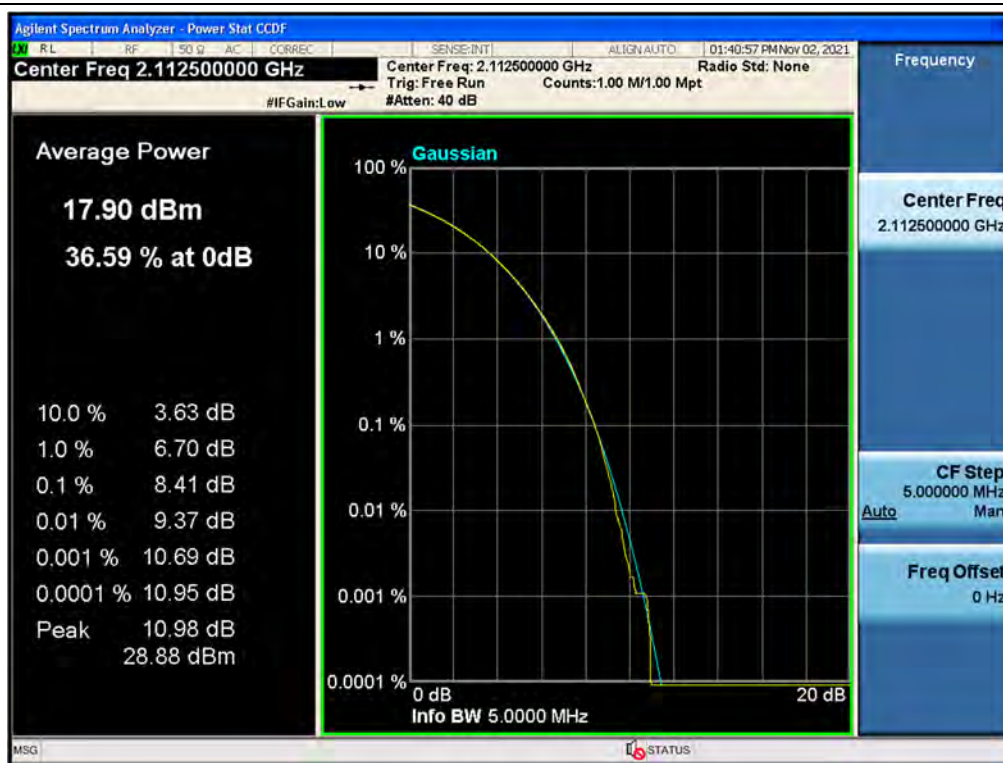
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Antenna 1 / B66 LTE 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier] / Contiguous / 16QAM / High



Antenna 1 / B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 5 MHz / 16QAM / Low



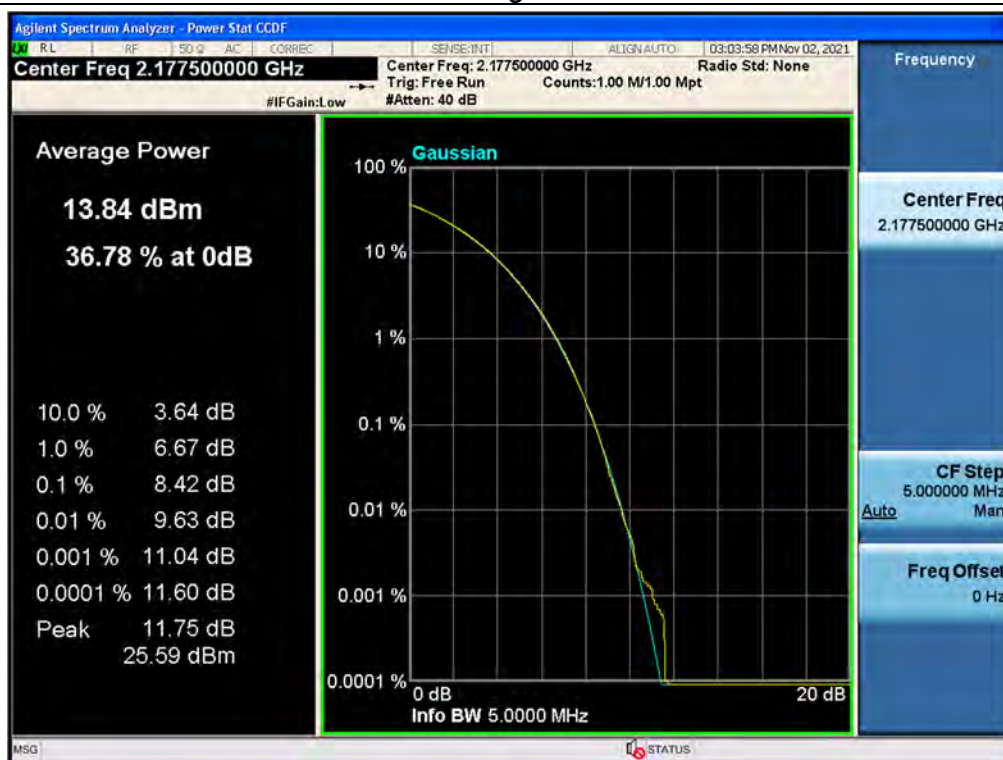
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Antenna 1 / B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 20 MHz / QPSK / Low



Antenna 1 / B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 5 MHz / QPSK / High



Antenna 1 / B66 LTE 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 20 MHz / QPSK / Low



Antenna 1 / B66 LTE 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 10 MHz / QPSK / High



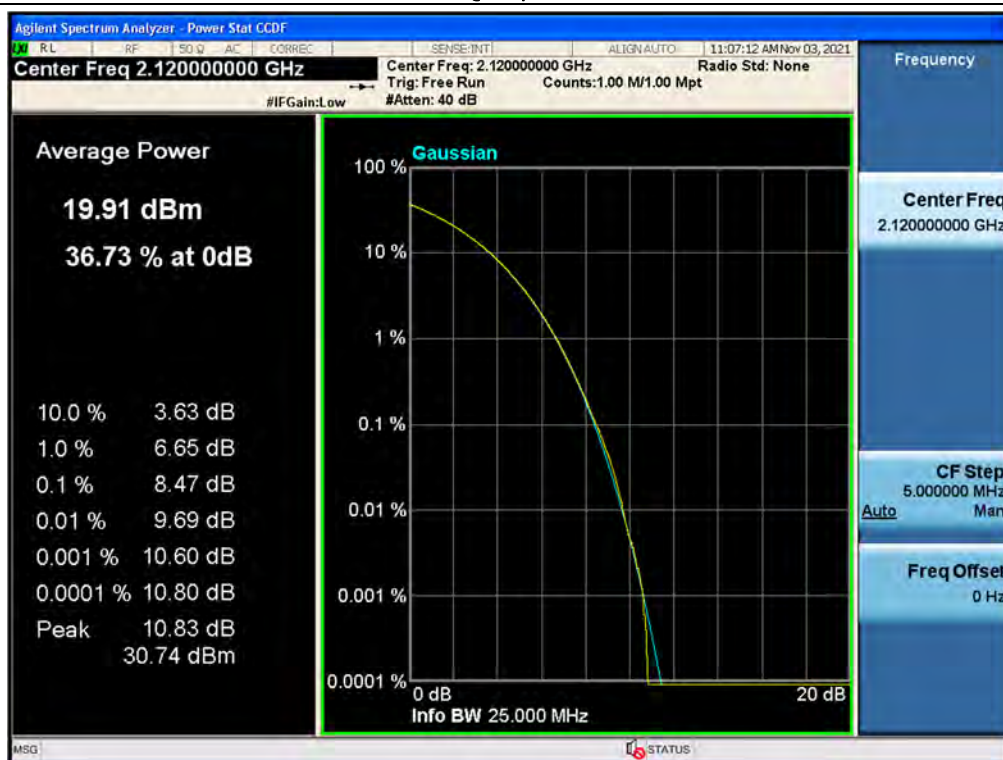
Antenna 1 / 5G NR n66 5 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 5 MHz / QPSK / Low



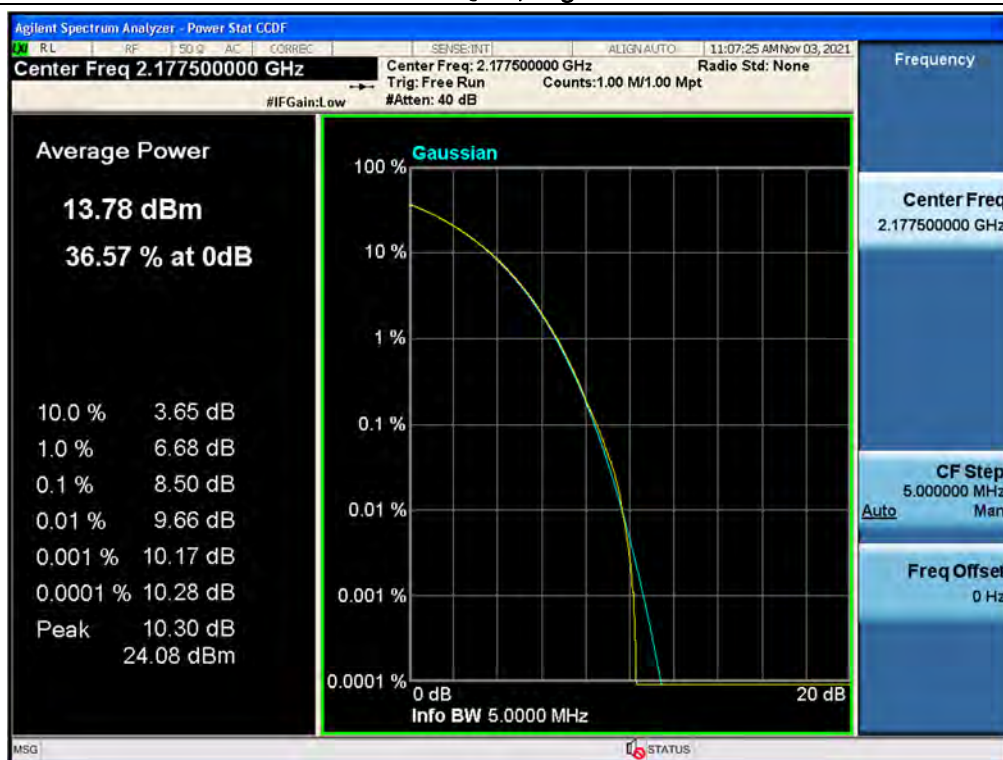
Antenna 1 / 5G NR n66 5 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 5 MHz / QPSK / High



Antenna 1 / 5G NR n66 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 20 MHz / 16QAM / Low



Antenna 1 / 5G NR n66 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 5 MHz / 16QAM / High



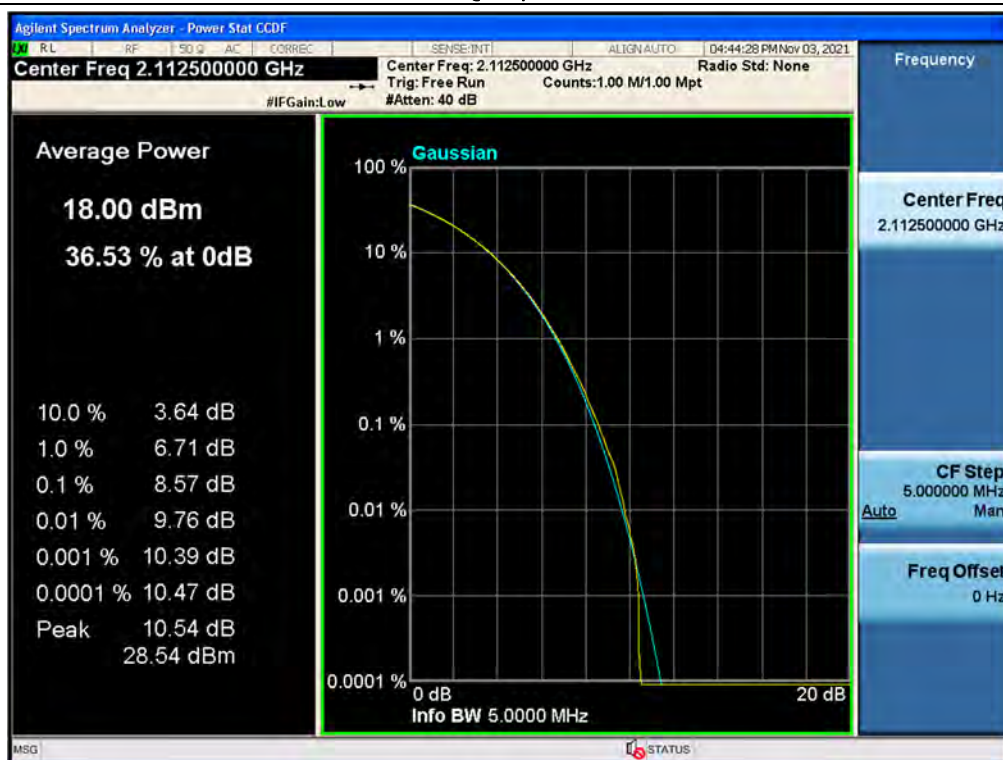
Antenna 1 / 5G NR n66 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 20 MHz / 256QAM / Low



Antenna 1 / 5G NR n66 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 10 MHz / 256QAM / High



Antenna 1 / 5G NR n66 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 5 MHz / 16QAM / Low



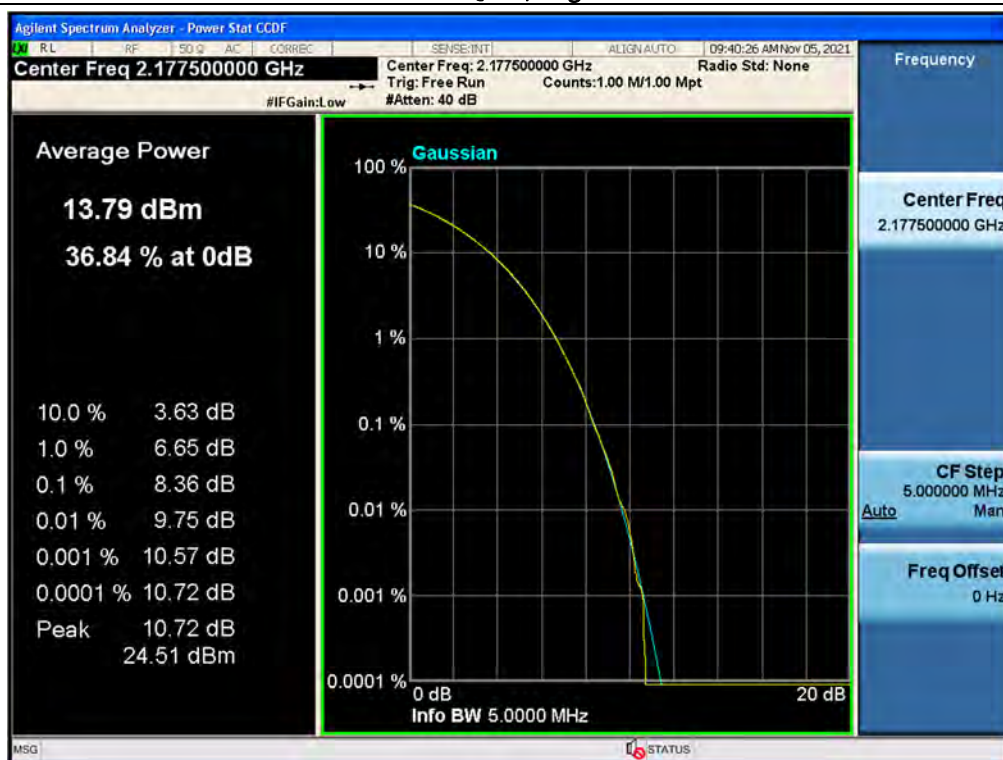
Antenna 1 / 5G NR n66 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 5 MHz / 16QAM / High



Antenna 1 / 5G NR n66 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 20 MHz / 256QAM / Low



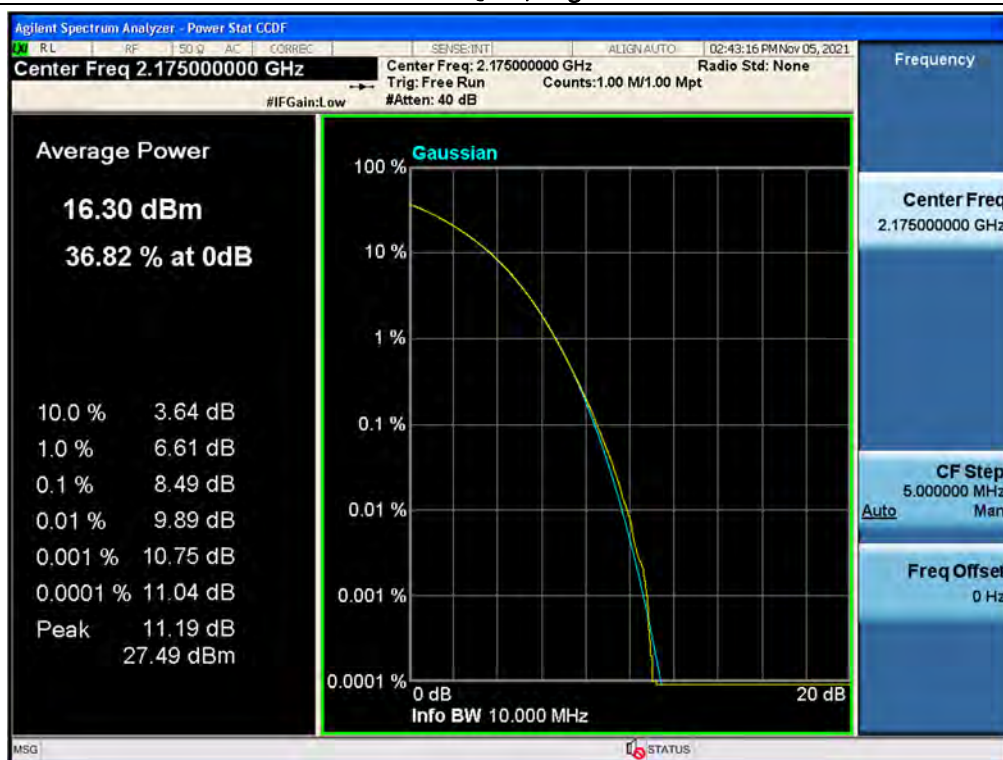
Antenna 1 / 5G NR n66 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 5 MHz / 256QAM / High



Antenna 1 / 5G NR n66 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 20 MHz / 256QAM / Low



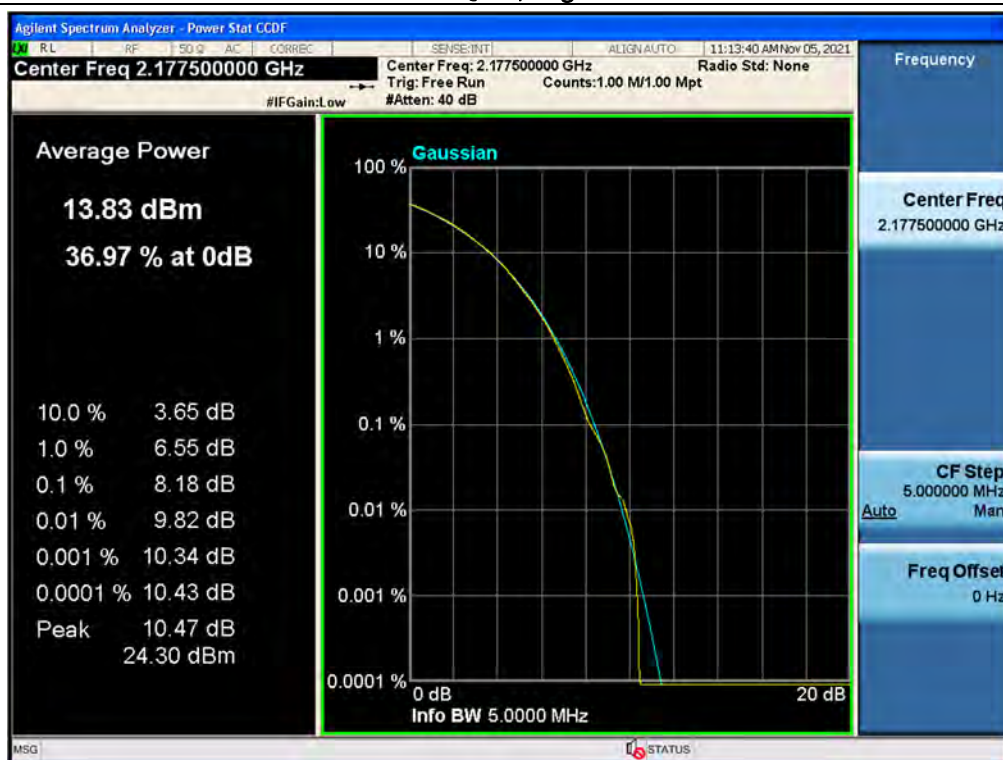
Antenna 1 / 5G NR n66 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 10 MHz / 256QAM / High



Antenna 1 / B66 LTE 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 20 MHz / 64QAM / Low



Antenna 1 / B66 LTE 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 5 MHz / 64QAM / High



Antenna 1 / B66 LTE 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier] / Non-Contiguous / B66 LTE 20 MHz / QPSK / Low



Antenna 1 / B66 LTE 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier] / Non-Contiguous / 5G NR n66 10 MHz / QPSK / High



5.3. OCCUPIED BANDWIDTH

Test Requirements:

§ 2.1049 Measurements required: Occupied bandwidth.

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 under the specified conditions of § 2.1049 (a) through (i) as applicable.

Test Procedures:

The measurement is performed in accordance with Section 5.4.3 and 5.4.4 of ANSI C63.26.

5.4.3 Occupied bandwidth—Relative measurement procedure

The OBW is measured as the width of the spectral envelope of the modulated signal, at an amplitude level reduced from a reference value by a specified ratio (or in decibels, a specified number of dB down from the reference value). The typical ratio for transmitters is –26 dB, corresponding to the 26 dB BW; however, other ratios can be specified. In this subclause, the ratio is designated by “–X dB.”

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- b) The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times \text{RBW}$.
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.
NOTE—Step a), step b), and step c) may require iteration to adjust within the specified tolerances.
- d) The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target “–X dB” requirement, i.e., if the requirement calls for measuring the –26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.
- e) Set spectrum analyzer detection mode to peak, and the trace mode to max hold.
- f) Determine the reference value by either of the following:
 - 1) Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the Highest level of the displayed trace (this is the reference value).
 - 2) Set the EUT to transmit an unmodulated carrier. Set the spectrum analyzer marker to the level of the carrier.
- g) Determine the “–X dB amplitude” as equal to (Reference Value – X). Alternatively, this calculation can be performed on the spectrum analyzer using the delta-marker measurement function.
- h) If the reference value was determined using an unmodulated carrier, turn the EUT modulation on, then either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise the trace from step f) shall be used for step i).
- i) Place two markers, one at the lowest and the other at the Highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “–X dB amplitude” determined in step f). If a marker is below this “–X dB amplitude” value it should be as close as possible to this value. The OBW is the positive frequency difference between the two markers. The spectral envelope can cross the “–X dB amplitude” at multiple points. The lowest or Highest frequency

shall be selected as the frequencies that are the farthest away from the center frequency at which the spectral envelope crosses the “-X dB amplitude.”

- j) The OBW shall be reported by providing plot(s) of the measuring instrument display, to include markers depicting the relevant frequency and amplitude information (e.g., marker table). The frequency and amplitude axis and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

5.4.4 Occupied bandwidth—Power bandwidth (99%) measurement procedure

The OBW is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.

The following procedure shall be used for measuring (99%) power bandwidth:

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (typically a span of $1.5 \times \text{OBW}$ is sufficient).
- b) The nominal IF filter 3 dB bandwidth (RBW) shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set $\geq 3 \times \text{RBW}$.
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation. See guidance provided in 4.2.3.
NOTE—Step a), step b), and step c) may require iteration to adjust within the specified tolerances.
- d) Set the detection mode to peak, and the trace mode to max-hold.
- e) If the instrument does not have a 99% OBW function, recover the trace data points and sum directly in linear power terms. Place the recovered amplitude data points, beginning at the lowest frequency, in a running sum until 0.5% of the total is reached. Record that frequency as the lower OBW frequency. Repeat the process until 99.5% of the total is reached and record that frequency as the upper OBW frequency. The 99% power OBW can be determined by computing the difference these two frequencies.
- f) The OBW shall be reported and plot(s) of the measuring instrument display shall be provided with the test report. The frequency and amplitude axis and scale shall be clearly labeled. Tabular data can be reported in addition to the plot(s).

Note: The results of the Occupied Bandwidth test shown above the frequency measured values are very small and similar trend for each port, so we are attached only the worst case plot.

Test Results:
Tabular Data of Occupied Bandwidth
B13 LTE 5 MHz 1 Carrier

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	748.50	4.5015
		Middle	751.00	4.5071
		High	753.50	4.5020
	16QAM	Low	748.50	4.4928
		Middle	751.00	4.5045
		High	753.50	4.5009
	64QAM	Low	748.50	4.4957
		Middle	751.00	4.5063
		High	753.50	4.4998
	256QAM	Low	748.50	4.5096
		Middle	751.00	4.5095
		High	753.50	4.4874
1	QPSK	Low	748.50	4.5045
		Middle	751.00	4.4979
		High	753.50	4.5057
	16QAM	Low	748.50	4.4830
		Middle	751.00	4.4568
		High	753.50	4.4862
	64QAM	Low	748.50	4.5091
		Middle	751.00	4.5100
		High	753.50	4.5134
	256QAM	Low	748.50	4.4998
		Middle	751.00	4.4983
		High	753.50	4.5049

B13 LTE 10 MHz 1 Carrier

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Middle	751.00	8.9888
	16QAM	Middle	751.00	9.0323
	64QAM	Middle	751.00	9.0229
	256QAM	Middle	751.00	9.0104
1	QPSK	Middle	751.00	9.0132
	16QAM	Middle	751.00	9.0052
	64QAM	Middle	751.00	9.0063
	256QAM	Middle	751.00	9.0023

5G NR n13 5 MHz 1 Carrier

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	748.50	4.4879
		Middle	751.00	4.4909
		High	753.50	4.4818
	16QAM	Low	748.50	4.5071
		Middle	751.00	4.5063
		High	753.50	4.5054
	64QAM	Low	748.50	4.4899
		Middle	751.00	4.4980
		High	753.50	4.4809
	256QAM	Low	748.50	4.5026
		Middle	751.00	4.5054
		High	753.50	4.4852
1	QPSK	Low	748.50	4.4834
		Middle	751.00	4.4921
		High	753.50	4.4956
	16QAM	Low	748.50	4.5119
		Middle	751.00	4.5095
		High	753.50	4.5083
	64QAM	Low	748.50	4.4943
		Middle	751.00	4.4838
		High	753.50	4.4843
	256QAM	Low	748.50	4.5012
		Middle	751.00	4.4875
		High	753.50	4.4990

5G NR n13 10 MHz 1 Carrier

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Middle	751.00	9.3082
	16QAM	Middle	751.00	9.2829
	64QAM	Middle	751.00	9.3218
	256QAM	Middle	751.00	9.3337
1	QPSK	Middle	751.00	9.3043
	16QAM	Middle	751.00	9.2560
	64QAM	Middle	751.00	9.3038
	256QAM	Middle	751.00	9.3391

B66 LTE 5 MHz 1 Carrier

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	2112.50	4.4987
		Middle	2145.00	4.4976
		High	2177.50	4.4926
	16QAM	Low	2112.50	4.4954
		Middle	2145.00	4.4989
		High	2177.50	4.4944
	64QAM	Low	2112.50	4.5071
		Middle	2145.00	4.4955
		High	2177.50	4.5058
	256QAM	Low	2112.50	4.5246
		Middle	2145.00	4.5089
		High	2177.50	4.5243
1	QPSK	Low	2112.50	4.5028
		Middle	2145.00	4.4964
		High	2177.50	4.5128
	16QAM	Low	2112.50	4.5032
		Middle	2145.00	4.4811
		High	2177.50	4.4639
	64QAM	Low	2112.50	4.5235
		Middle	2145.00	4.5074
		High	2177.50	4.4965
	256QAM	Low	2112.50	4.5049
		Middle	2145.00	4.5031
		High	2177.50	4.5159

B66 LTE 10 MHz 1 Carrier

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	2115.00	8.9966
		Middle	2145.00	9.0009
		High	2175.00	9.0038
	16QAM	Low	2115.00	9.0380
		Middle	2145.00	9.0069
		High	2175.00	9.0195
	64QAM	Low	2115.00	8.9951
		Middle	2145.00	9.0000
		High	2175.00	9.0163
	256QAM	Low	2115.00	8.9881
		Middle	2145.00	8.9996
		High	2175.00	8.9854
1	QPSK	Low	2115.00	9.0168
		Middle	2145.00	8.9617
		High	2175.00	8.9844
	16QAM	Low	2115.00	9.0257
		Middle	2145.00	9.0290
		High	2175.00	9.0191
	64QAM	Low	2115.00	9.0016
		Middle	2145.00	9.0177
		High	2175.00	8.9731
	256QAM	Low	2115.00	8.9896
		Middle	2145.00	9.0143
		High	2175.00	8.9826

B66 LTE 15 MHz 1 Carrier

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	2117.50	13.477
		Middle	2145.00	13.478
		High	2172.50	13.502
	16QAM	Low	2117.50	13.502
		Middle	2145.00	13.494
		High	2172.50	13.517
	64QAM	Low	2117.50	13.515
		Middle	2145.00	13.488
		High	2172.50	13.572
	256QAM	Low	2117.50	13.520
		Middle	2145.00	13.544
		High	2172.50	13.510
1	QPSK	Low	2117.50	13.529
		Middle	2145.00	13.490
		High	2172.50	13.501
	16QAM	Low	2117.50	13.520
		Middle	2145.00	13.543
		High	2172.50	13.505
	64QAM	Low	2117.50	13.475
		Middle	2145.00	13.503
		High	2172.50	13.462
	256QAM	Low	2117.50	13.464
		Middle	2145.00	13.502
		High	2172.50	13.522

B66 LTE 20 MHz 1 Carrier

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	2120.00	17.959
		Middle	2145.00	17.945
		High	2170.00	18.006
	16QAM	Low	2120.00	17.962
		Middle	2145.00	17.934
		High	2170.00	17.961
	64QAM	Low	2120.00	17.998
		Middle	2145.00	17.949
		High	2170.00	17.956
	256QAM	Low	2120.00	17.926
		Middle	2145.00	17.965
		High	2170.00	17.975
1	QPSK	Low	2120.00	17.943
		Middle	2145.00	17.992
		High	2170.00	17.992
	16QAM	Low	2120.00	17.985
		Middle	2145.00	17.992
		High	2170.00	18.042
	64QAM	Low	2120.00	17.986
		Middle	2145.00	17.931
		High	2170.00	17.996
	256QAM	Low	2120.00	17.965
		Middle	2145.00	17.923
		High	2170.00	17.995

5G NR n66 5 MHz 1 Carrier

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	2112.50	4.4862
		Middle	2145.00	4.5117
		High	2177.50	4.4906
	16QAM	Low	2112.50	4.5047
		Middle	2145.00	4.5022
		High	2177.50	4.5076
	64QAM	Low	2112.50	4.4801
		Middle	2145.00	4.5098
		High	2177.50	4.4811
	256QAM	Low	2112.50	4.5018
		Middle	2145.00	4.5021
		High	2177.50	4.5148
1	QPSK	Low	2112.50	4.4804
		Middle	2145.00	4.5213
		High	2177.50	4.4982
	16QAM	Low	2112.50	4.5109
		Middle	2145.00	4.5097
		High	2177.50	4.5052
	64QAM	Low	2112.50	4.4992
		Middle	2145.00	4.4948
		High	2177.50	4.5025
	256QAM	Low	2112.50	4.5039
		Middle	2145.00	4.5016
		High	2177.50	4.5081

5G NR n66 10 MHz 1 Carrier

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	2115.00	9.3233
		Middle	2145.00	9.3464
		High	2175.00	9.3302
	16QAM	Low	2115.00	9.2686
		Middle	2145.00	9.2721
		High	2175.00	9.2390
	64QAM	Low	2115.00	9.3044
		Middle	2145.00	9.3151
		High	2175.00	9.3125
	256QAM	Low	2115.00	9.3181
		Middle	2145.00	9.3344
		High	2175.00	9.3264
1	QPSK	Low	2115.00	9.3240
		Middle	2145.00	9.3181
		High	2175.00	9.3303
	16QAM	Low	2115.00	9.2572
		Middle	2145.00	9.2233
		High	2175.00	9.2768
	64QAM	Low	2115.00	9.3382
		Middle	2145.00	9.2880
		High	2175.00	9.3163
	256QAM	Low	2115.00	9.3341
		Middle	2145.00	9.3541
		High	2175.00	9.2892

5G NR n66 15 MHz 1 Carrier

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	2117.50	14.143
		Middle	2145.00	14.131
		High	2172.50	14.137
	16QAM	Low	2117.50	14.197
		Middle	2145.00	14.200
		High	2172.50	14.202
	64QAM	Low	2117.50	14.155
		Middle	2145.00	14.171
		High	2172.50	14.111
	256QAM	Low	2117.50	14.122
		Middle	2145.00	14.141
		High	2172.50	14.160
1	QPSK	Low	2117.50	14.132
		Middle	2145.00	14.172
		High	2172.50	14.135
	16QAM	Low	2117.50	14.193
		Middle	2145.00	14.194
		High	2172.50	14.187
	64QAM	Low	2117.50	14.167
		Middle	2145.00	14.156
		High	2172.50	14.154
	256QAM	Low	2117.50	14.112
		Middle	2145.00	14.144
		High	2172.50	14.169

5G NR n66 20 MHz 1 Carrier

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	2120.00	18.963
		Middle	2145.00	19.000
		High	2170.00	18.966
	16QAM	Low	2120.00	19.035
		Middle	2145.00	19.071
		High	2170.00	19.053
	64QAM	Low	2120.00	18.984
		Middle	2145.00	19.044
		High	2170.00	18.998
	256QAM	Low	2120.00	18.960
		Middle	2145.00	18.952
		High	2170.00	19.021
1	QPSK	Low	2120.00	18.988
		Middle	2145.00	19.019
		High	2170.00	18.965
	16QAM	Low	2120.00	19.055
		Middle	2145.00	19.065
		High	2170.00	19.041
	64QAM	Low	2120.00	19.027
		Middle	2145.00	18.976
		High	2170.00	18.970
	256QAM	Low	2120.00	18.996
		Middle	2145.00	18.962
		High	2170.00	18.982

Tabular Data of Contiguous Occupied Bandwidth

B66 LTE 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	2115.00	9.4772
		Middle	2145.00	9.4663
		High	2175.00	9.4672
	16QAM	Low	2115.00	9.4282
		Middle	2145.00	9.4052
		High	2175.00	9.4933
	64QAM	Low	2115.00	9.4754
		Middle	2145.00	9.4706
		High	2175.00	9.4535
	256QAM	Low	2115.00	9.4872
		Middle	2145.00	9.4852
		High	2175.00	9.4738
1	QPSK	Low	2115.00	9.4687
		Middle	2145.00	9.4485
		High	2175.00	9.4800
	16QAM	Low	2115.00	9.4341
		Middle	2145.00	9.4269
		High	2175.00	9.4501
	64QAM	Low	2115.00	9.4615
		Middle	2145.00	9.4602
		High	2175.00	9.4603
	256QAM	Low	2115.00	9.4704
		Middle	2145.00	9.4664
		High	2175.00	9.4665

B66 LTE 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	2122.50	23.681
		Middle	2145.00	23.679
		High	2167.50	23.675
	16QAM	Low	2122.50	23.642
		Middle	2145.00	23.673
		High	2167.50	23.697
	64QAM	Low	2122.50	23.762
		Middle	2145.00	23.688
		High	2167.50	23.691
	256QAM	Low	2122.50	23.649
		Middle	2145.00	23.648
		High	2167.50	23.647
1	QPSK	Low	2122.50	23.708
		Middle	2145.00	23.668
		High	2167.50	23.645
	16QAM	Low	2122.50	23.712
		Middle	2145.00	23.590
		High	2167.50	23.730
	64QAM	Low	2122.50	23.610
		Middle	2145.00	23.618
		High	2167.50	23.706
	256QAM	Low	2122.50	23.629
		Middle	2145.00	23.616
		High	2167.50	23.674

B66 LTE 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier]

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	2125.00	28.426
		Middle	2145.00	28.449
		High	2165.00	28.396
	16QAM	Low	2125.00	28.447
		Middle	2145.00	28.563
		High	2165.00	28.493
	64QAM	Low	2125.00	28.342
		Middle	2145.00	28.367
		High	2165.00	28.394
	256QAM	Low	2125.00	28.349
		Middle	2145.00	28.393
		High	2165.00	28.399
1	QPSK	Low	2125.00	28.427
		Middle	2145.00	28.374
		High	2165.00	28.385
	16QAM	Low	2125.00	28.540
		Middle	2145.00	28.442
		High	2165.00	28.460
	64QAM	Low	2125.00	28.410
		Middle	2145.00	28.380
		High	2165.00	28.440
	256QAM	Low	2125.00	28.384
		Middle	2145.00	28.388
		High	2165.00	28.386

5G NR n66 5 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier]

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	2115.00	9.4681
		Middle	2145.00	9.4507
		High	2175.00	9.4675
	16QAM	Low	2115.00	9.4678
		Middle	2145.00	9.4921
		High	2175.00	9.4743
	64QAM	Low	2115.00	9.4685
		Middle	2145.00	9.4626
		High	2175.00	9.4685
	256QAM	Low	2115.00	9.4670
		Middle	2145.00	9.4745
		High	2175.00	9.4697
1	QPSK	Low	2115.00	9.4494
		Middle	2145.00	9.4672
		High	2175.00	9.4615
	16QAM	Low	2115.00	9.4931
		Middle	2145.00	9.4931
		High	2175.00	9.4838
	64QAM	Low	2115.00	9.4721
		Middle	2145.00	9.4612
		High	2175.00	9.4888
	256QAM	Low	2115.00	9.4634
		Middle	2145.00	9.4611
		High	2175.00	9.4684

5G NR n66 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier]

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	2122.50	24.161
		Middle	2145.00	24.195
		High	2167.50	24.184
	16QAM	Low	2122.50	24.259
		Middle	2145.00	24.280
		High	2167.50	24.243
	64QAM	Low	2122.50	24.183
		Middle	2145.00	24.186
		High	2167.50	24.191
	256QAM	Low	2122.50	24.211
		Middle	2145.00	24.167
		High	2167.50	24.184
1	QPSK	Low	2122.50	24.172
		Middle	2145.00	24.140
		High	2167.50	24.175
	16QAM	Low	2122.50	24.211
		Middle	2145.00	24.213
		High	2167.50	24.254
	64QAM	Low	2122.50	24.179
		Middle	2145.00	24.138
		High	2167.50	24.179
	256QAM	Low	2122.50	24.174
		Middle	2145.00	24.183
		High	2167.50	24.137

5G NR n66 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier]

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	2125.00	29.040
		Middle	2145.00	29.087
		High	2165.00	29.144
	16QAM	Low	2125.00	28.917
		Middle	2145.00	28.907
		High	2165.00	28.928
	64QAM	Low	2125.00	29.078
		Middle	2145.00	29.087
		High	2165.00	29.074
	256QAM	Low	2125.00	29.060
		Middle	2145.00	29.008
		High	2165.00	29.135
1	QPSK	Low	2125.00	29.069
		Middle	2145.00	29.051
		High	2165.00	29.066
	16QAM	Low	2125.00	28.879
		Middle	2145.00	28.856
		High	2165.00	28.883
	64QAM	Low	2125.00	29.085
		Middle	2145.00	29.077
		High	2165.00	29.099
	256QAM	Low	2125.00	29.019
		Middle	2145.00	29.100
		High	2165.00	29.109

5G NR n66 5 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	2115.00	9.4545
		Middle	2145.00	9.4777
		High	2175.00	9.4801
	16QAM	Low	2115.00	9.4841
		Middle	2145.00	9.4621
		High	2175.00	9.4605
	64QAM	Low	2115.00	9.4840
		Middle	2145.00	9.4593
		High	2175.00	9.4711
	256QAM	Low	2115.00	9.4659
		Middle	2145.00	9.4626
		High	2175.00	9.4988
1	QPSK	Low	2115.00	9.4758
		Middle	2145.00	9.4856
		High	2175.00	9.4541
	16QAM	Low	2115.00	9.4583
		Middle	2145.00	9.4502
		High	2175.00	9.4467
	64QAM	Low	2115.00	9.4962
		Middle	2145.00	9.4620
		High	2175.00	9.4531
	256QAM	Low	2115.00	9.4860
		Middle	2145.00	9.4757
		High	2175.00	9.4946

5G NR n66 20 MHz 1 Carrier + B66 LTE 5 MHz 1 Carrier [2 Carrier]

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	2122.50	24.184
		Middle	2145.00	24.223
		High	2167.50	24.194
	16QAM	Low	2122.50	24.203
		Middle	2145.00	24.175
		High	2167.50	24.212
	64QAM	Low	2122.50	24.190
		Middle	2145.00	24.207
		High	2167.50	24.222
	256QAM	Low	2122.50	24.184
		Middle	2145.00	24.180
		High	2167.50	24.173
1	QPSK	Low	2122.50	24.207
		Middle	2145.00	24.176
		High	2167.50	24.223
	16QAM	Low	2122.50	24.185
		Middle	2145.00	24.219
		High	2167.50	24.187
	64QAM	Low	2122.50	24.206
		Middle	2145.00	24.221
		High	2167.50	24.163
	256QAM	Low	2122.50	24.145
		Middle	2145.00	24.130
		High	2167.50	24.176

5G NR n66 20 MHz 1 Carrier + B66 LTE 10 MHz 1 Carrier [2 Carrier]

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	2125.00	28.893
		Middle	2145.00	28.911
		High	2165.00	28.962
	16QAM	Low	2125.00	28.896
		Middle	2145.00	28.961
		High	2165.00	28.916
	64QAM	Low	2125.00	28.907
		Middle	2145.00	28.959
		High	2165.00	28.932
	256QAM	Low	2125.00	28.854
		Middle	2145.00	28.930
		High	2165.00	28.900
1	QPSK	Low	2125.00	28.912
		Middle	2145.00	28.899
		High	2165.00	28.943
	16QAM	Low	2125.00	28.946
		Middle	2145.00	28.881
		High	2165.00	29.011
	64QAM	Low	2125.00	28.998
		Middle	2145.00	28.883
		High	2165.00	28.957
	256QAM	Low	2125.00	28.956
		Middle	2145.00	28.930
		High	2165.00	28.979

B66 LTE 20 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [2 Carrier]

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	2122.50	23.670
		Middle	2145.00	23.665
		High	2167.50	23.661
	16QAM	Low	2122.50	23.686
		Middle	2145.00	23.678
		High	2167.50	23.725
	64QAM	Low	2122.50	23.689
		Middle	2145.00	23.682
		High	2167.50	23.696
	256QAM	Low	2122.50	23.651
		Middle	2145.00	23.659
		High	2167.50	23.673
1	QPSK	Low	2122.50	23.688
		Middle	2145.00	23.677
		High	2167.50	23.702
	16QAM	Low	2122.50	23.767
		Middle	2145.00	23.674
		High	2167.50	23.683
	64QAM	Low	2122.50	23.668
		Middle	2145.00	23.650
		High	2167.50	23.684
	256QAM	Low	2122.50	23.618
		Middle	2145.00	23.668
		High	2167.50	23.680

B66 LTE 20 MHz 1 Carrier + 5G NR n66 10 MHz 1 Carrier [2 Carrier]

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	2125.00	28.616
		Middle	2145.00	28.550
		High	2165.00	28.619
	16QAM	Low	2125.00	28.414
		Middle	2145.00	28.348
		High	2165.00	28.330
	64QAM	Low	2125.00	28.544
		Middle	2145.00	28.556
		High	2165.00	28.490
	256QAM	Low	2125.00	28.545
		Middle	2145.00	28.620
		High	2165.00	28.568
1	QPSK	Low	2125.00	28.628
		Middle	2145.00	28.604
		High	2165.00	28.616
	16QAM	Low	2125.00	28.398
		Middle	2145.00	28.374
		High	2165.00	28.385
	64QAM	Low	2125.00	28.520
		Middle	2145.00	28.488
		High	2165.00	28.527
	256QAM	Low	2125.00	28.603
		Middle	2145.00	28.558
		High	2165.00	28.511