

TEST REPORT

FCC Test for RF4402d-D1A
Class II Permissive Change

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2512-FC056-R1

DATE OF ISSUE
January 8, 2026

Tested by
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Applicant	SAMSUNG Electronics Co., Ltd. 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
Product Name Model Name	RRU (RF4402d) RF4402d-D1A
FCC ID	A3LRF4402D-D1A
Date of Test	October 15, 2025 ~ December 15, 2025
Location of Test	☒ Permanent Testing Lab ☐ On Site Testing (Address: 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic of Korea)
Test Standard Used	CFR 47 Part 2, Part 24, Part 27
Test Results	PASS

REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	December 17, 2025	Initial Release
1	January 08, 2026	- Revised the Plots on pages 221~222, 224 and 250~251.

Notice

Content

Engineering Statement:

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.

The results shown in this test report only apply to the sample(s), as received, provided by the applicant, unless otherwise stated.

The test results have only been applied with the test methods required by the standard(s).

The laboratory is not accredited for the test results marked *.

Information provided by the applicant is marked **.

Test results provided by external providers are marked ***.

When confirmation of authenticity of this test report is required, please contact www.hct.co.kr

The test results in this test report are not associated with the ((KS Q) ISO/IEC 17025) accreditation by KOLAS (Korea Laboratory Accreditation Scheme) / A2LA (American Association for Laboratory Accreditation) that are under the ILAC (International Laboratory Accreditation Cooperation) Mutual Recognition Agreement (MRA).

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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 (RF4402d)			
EUT Serial Number	S616916711			
Power Supply	DC -48 V			
Frequency Range	Band/n2: 1 930 MHz ~ 1 990 MHz Band/n66: 2 110 MHz ~ 2 180 MHz			
Modulation Type	QPSK, 16QAM, 64QAM, 256QAM			
Output Power	Band	Carrier	Bandwidth	Power
	(4 Port) n2 5G NR	1	25 MHz	20 W/path, Total: 80 W
	(4 Port) n66 5G NR	1	25 MHz	30 W/path, Total: 120 W
	(4 Port) n66 5G NR	1	30 MHz	30 W/path, Total: 120 W
	(4 Port) B66 LTE + n66 5G NR	2	5 MHz + 25 MHz	30 W/path, Total: 120 W
	(4 Port) B66 LTE + n66 5G NR	2	5 MHz + 30 MHz	30 W/path, Total: 120 W
	(4 Port) n66 5G NR + n66 5G NR	2	5 MHz + 25 MHz	30 W/path, Total: 120 W
	(4 Port) n66 5G NR + n66 5G NR	2	5 MHz + 30 MHz	30 W/path, Total: 120 W
	(4 Port) B66 DSS + n66 5G NR	2	10 MHz + 25 MHz	30 W/path, Total: 120 W

	Band	Bandwidth	Emission Designator			
			QPSK (G7D)	Conducted (W)	16/64/256 QAM (W7D)	Conducted (W)
Emission Designator	(4 Port) n2 5G NR	25 MHz	23M8G7D	77.01	23M9W7D	77.47
	(4 Port) n66 5G NR	25 MHz	23M9G7D	128.63	23M9W7D	131.86
	(4 Port) n66 5G NR	30 MHz	28M6G7D	128.24	28M7W7D	132.70
	(4 Port) B66 LTE + n66 5G NR (Contiguous)	5 MHz + 25 MHz	29M1G7D	128.78	29M1W7D	135.31
	(4 Port) B66 LTE + n66 5G NR (Contiguous)	5 MHz + 30 MHz	34M0G7D	126.17	34M0W7D	127.94
	(4 Port) n66 5G NR + n66 5G NR (Contiguous)	5 MHz + 25 MHz	29M1G7D	125.78	29M1W7D	129.22
	(4 Port) n66 5G NR + n66 5G NR (Contiguous)	5 MHz + 30 MHz	34M0G7D	123.31	34M0W7D	129.78
	(4 Port) B66 DSS + n66 5G NR (Contiguous)	10 MHz + 25 MHz	34M0G7D	126.17	34M0W7D	130.84
	(4 Port) B66 LTE + n66 5G NR (Non-Contiguous)	5 MHz + 25 MHz	28M3G7D	127.08	28M4W7D	123.60
	(4 Port) B66 LTE + n66 5G NR (Non-Contiguous)	5 MHz + 30 MHz	33M1G7D	117.30	33M1W7D	120.02
	(4 Port) n66 5G NR + n66 5G NR (Non-Contiguous)	5 MHz + 25 MHz	28M3G7D	119.38	28M3W7D	120.98
	(4 Port) n66 5G NR + n66 5G NR (Non-Contiguous)	5 MHz + 30 MHz	33M1G7D	121.51	33M1W7D	126.38
	(4 Port) B66 DSS + n66 5G NR (Non-Contiguous)	10 MHz + 25 MHz	33M1G7D	119.73	33M1W7D	121.96
Antenna Specification	Manufacturer does not provide an antenna					

1.3. TEST INFORMATION

FCC Rule Parts	CFR 47 Part 2, Part 24, Part 27
Measurement standards	ANSI C63.26-2015, KDB 971168 D01 v03r01, KDB 662911 D01 v02r01
Test Location	74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, Republic 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, Republic 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 March 11, 2024 (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 Part 2, Part 24, Part 27

Description	Reference	Results
Conducted Output Power and PSD	§ 2.1046, § 24.232(a)(2), § 27.50(d)(2)	Compliant
PAPR	§ 24.232(d), § 27.50(d)(5)	Compliant
Occupied Bandwidth	§ 2.1049	Compliant
Out-of-band Unwanted Emissions	§ 2.1051, § 24.238, § 27.53(h)	Compliant
Spurious Unwanted Emissions		Compliant
Radiated Emissions	§ 2.1053, § 24.238, § 27.53(h)	Compliant
Frequency Stability	§ 2.1055, § 24.235, § 27.54	Compliant

Note: The decision rule applies 'simple acceptance'.

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 modulation types (QPSK, 16QAM, 64QAM, 256QAM) supported by the EUT have been tested, and the test results presented in the following sections represent the worst-case conditions.
- All mode of operation, supporting bandwidth and frequencies were investigated. The test plots shown in the following sections represent the worst-case emissions.
- All power supplies used during operation were investigated, and the results of the worst-case configuration are reported.
- Among the multi-carrier combination, only worst-case combination has tested in this test report to cover all multi-carrier combination addressed in technical documents.
- The measurement has been performed for each carrier in the mode of full resource block size as worst-case to transmit maximum output power condition.
- The dummy loads were connected to the RF output ports for radiated spurious emission testing.
- The device was operating at 100 % duty cycle.
- 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.

ANT 0

Correction factor table			
Frequency (MHz)	Factor (dB)	Frequency (MHz)	Factor (dB)
0.009	29.119	3 000	32.571
100	29.444	3 100	32.578
200	29.756	3 200	32.535
300	29.978	3 300	32.695
400	30.143	3 400	32.798
500	30.308	3 500	32.975
600	30.433	3 600	33.628
700	30.622	3 700	33.955
800	30.781	3 800	34.020
900	30.870	3 900	33.745
1 000	30.973	4 000	33.995
1 100	31.031	5 000	35.256
1 200	31.145	6 000	35.569
1 300	31.213	7 000	36.501
1 400	31.420	8 000	37.155
1 500	31.334	9 000	38.307
1 600	31.575	10 000	32.625
1 700	31.493	11 000	32.897
1 800	31.600	12 000	33.040
1 900	31.778	13 000	33.271
2 000	31.839	14 000	34.034
2 100	31.945	15 000	34.316
2 200	31.938	16 000	34.425
2 300	32.148	17 000	34.352
2 400	32.143	18 000	34.972
2 500	32.062	19 000	34.786
2 600	32.282	20 000	36.682
2 700	32.330	21 000	37.714
2 800	32.463	22 000	39.336
2 900	32.390	-	-

ANT 1

Correction factor table			
Frequency (MHz)	Factor (dB)	Frequency (MHz)	Factor (dB)
0.009	29.201	3 000	32.850
100	29.434	3 100	32.830
200	29.736	3 200	32.778
300	30.014	3 300	32.935
400	30.224	3 400	33.024
500	30.331	3 500	33.128
600	30.498	3 600	33.748
700	30.681	3 700	34.143
800	30.802	3 800	34.253
900	30.917	3 900	33.927
1 000	31.018	4 000	34.202
1 100	31.146	5 000	36.072
1 200	31.232	6 000	35.718
1 300	31.283	7 000	36.412
1 400	31.430	8 000	37.069
1 500	31.468	9 000	37.758
1 600	31.606	10 000	33.962
1 700	31.626	11 000	34.382
1 800	31.725	12 000	34.735
1 900	31.894	13 000	35.118
2 000	31.990	14 000	35.400
2 100	31.995	15 000	36.283
2 200	32.105	16 000	39.577
2 300	32.243	17 000	38.352
2 400	32.276	18 000	37.714
2 500	32.305	19 000	37.634
2 600	32.419	20 000	38.614
2 700	32.518	21 000	39.582
2 800	32.506	22 000	40.954
2 900	32.604	-	-

ANT 2

Correction factor table			
Frequency (MHz)	Factor (dB)	Frequency (MHz)	Factor (dB)
0.009	29.244	3 000	33.229
100	29.493	3 100	33.228
200	29.816	3 200	33.175
300	30.102	3 300	33.310
400	30.346	3 400	33.409
500	30.469	3 500	33.554
600	30.671	3 600	34.179
700	30.877	3 700	34.458
800	31.017	3 800	34.641
900	31.169	3 900	34.357
1 000	31.337	4 000	34.709
1 100	31.466	5 000	35.938
1 200	31.610	6 000	36.086
1 300	31.589	7 000	36.805
1 400	31.788	8 000	37.423
1 500	31.825	9 000	38.283
1 600	31.969	10 000	34.751
1 700	32.036	11 000	35.158
1 800	32.173	12 000	35.437
1 900	32.329	13 000	35.708
2 000	32.467	14 000	36.281
2 100	32.431	15 000	36.599
2 200	32.534	16 000	36.950
2 300	32.659	17 000	36.824
2 400	32.678	18 000	37.333
2 500	32.726	19 000	37.667
2 600	32.838	20 000	38.857
2 700	32.901	21 000	39.613
2 800	32.894	22 000	42.340
2 900	32.955	-	-

ANT 3

Correction factor table			
Frequency (MHz)	Factor (dB)	Frequency (MHz)	Factor (dB)
0.009	29.324	3 000	33.197
100	29.476	3 100	33.215
200	29.812	3 200	33.160
300	30.101	3 300	33.306
400	30.346	3 400	33.433
500	30.463	3 500	33.583
600	30.651	3 600	34.167
700	30.848	3 700	34.443
800	30.959	3 800	34.644
900	31.083	3 900	34.347
1 000	31.215	4 000	34.753
1 100	31.346	5 000	36.613
1 200	31.481	6 000	36.120
1 300	31.472	7 000	36.785
1 400	31.658	8 000	37.476
1 500	31.698	9 000	38.286
1 600	31.836	10 000	33.830
1 700	31.886	11 000	34.033
1 800	32.002	12 000	34.220
1 900	32.155	13 000	34.512
2 000	32.320	14 000	34.993
2 100	32.310	15 000	35.171
2 200	32.410	16 000	35.290
2 300	32.544	17 000	35.404
2 400	32.576	18 000	36.119
2 500	32.649	19 000	36.557
2 600	32.763	20 000	38.090
2 700	32.843	21 000	38.604
2 800	32.856	22 000	40.900
2 900	32.929	-	-

3.3. MAXIMUM MEASUREMENT UNCERTAINTY

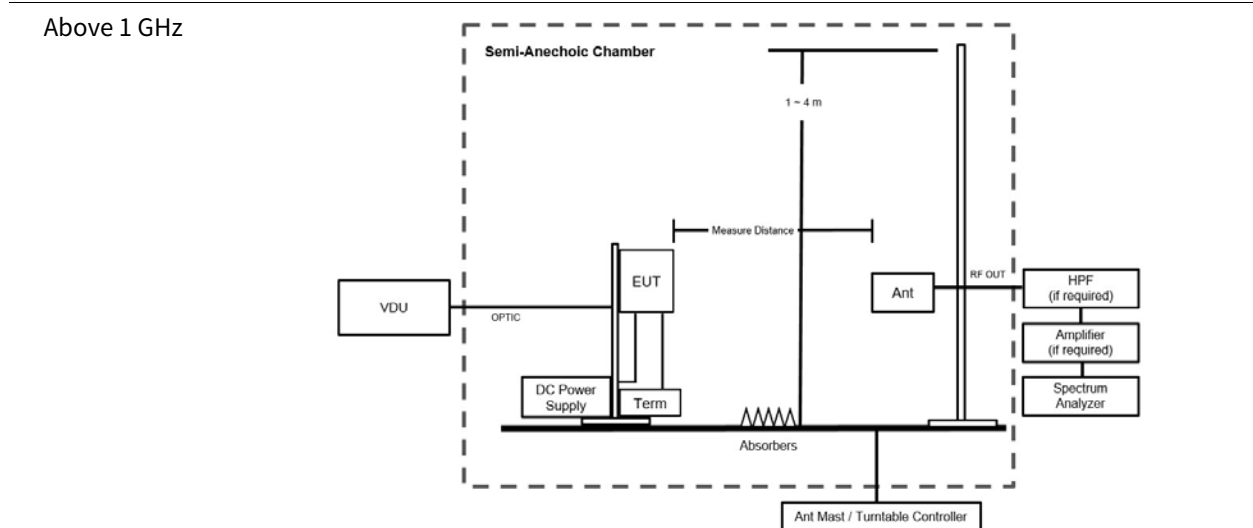
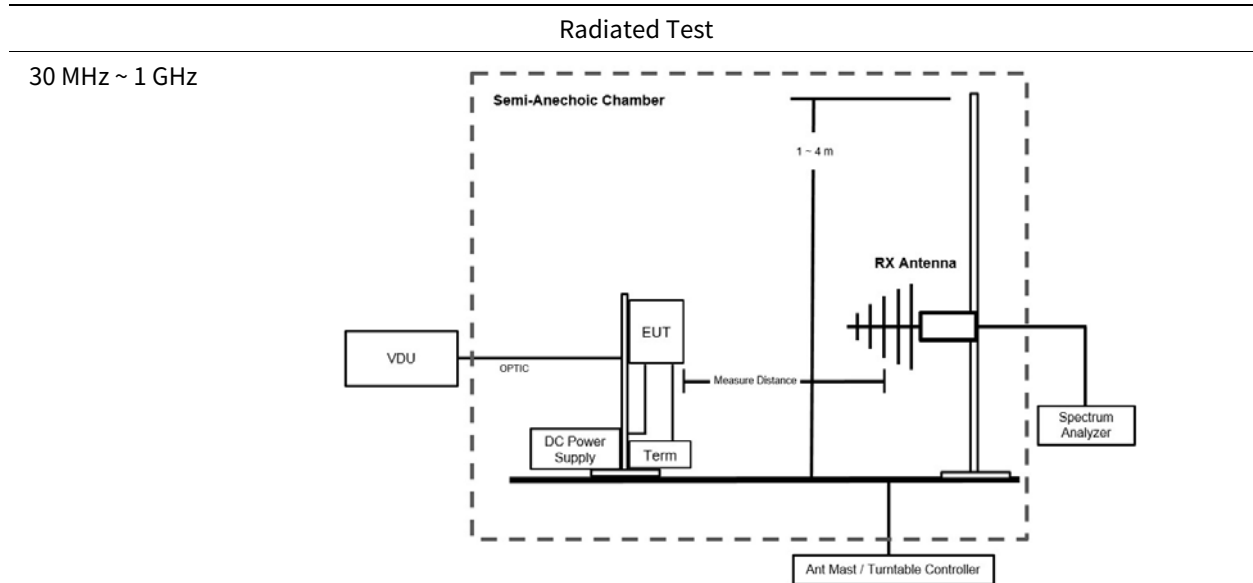
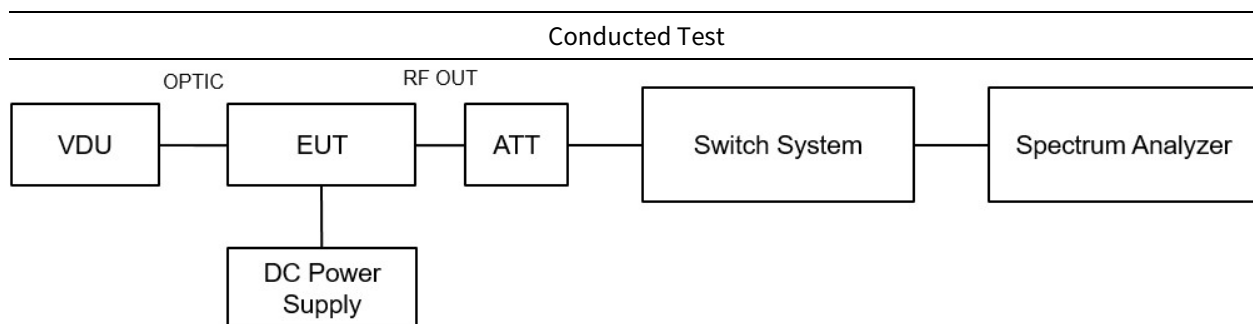
Description	Condition	Uncertainty
Radiated Disturbance	9 kHz ~ 30 MHz	± 4.36 dB
	30 MHz ~ 1 GHz	± 5.68 dB
	1 GHz ~ 18 GHz	± 5.75 dB
	18 GHz ~ 40 GHz	± 5.82 dB

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

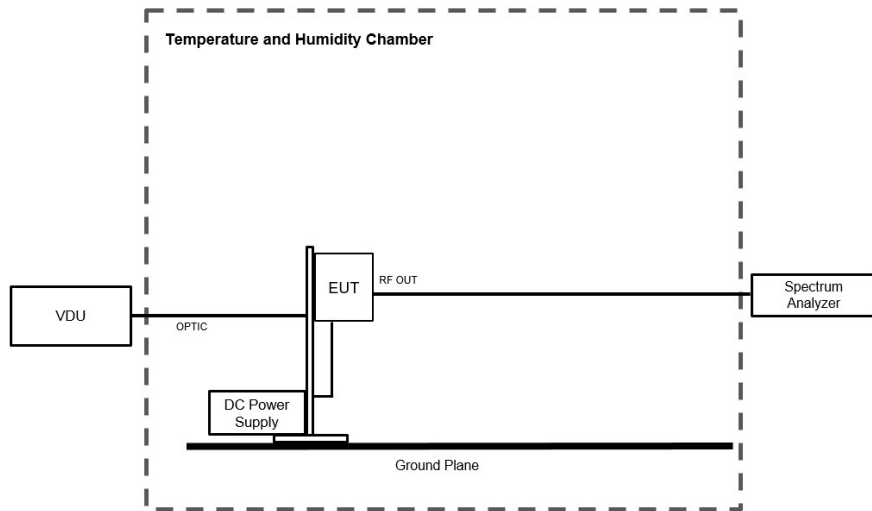
3.5. TEST DIAGRAMS



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

※ Measure distance is 3 m.

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
PXA Signal Analyzer	N9030A	Keysight	MY49431434	07/10/2026	Annual
MXA Signal Analyzer	N9020A	Agilent	MY46471250	08/04/2026	Annual
RF Switch System	TMX0108	TNM System	TM20110001	N/A	N/A
#30 dB Attenuator	67-30-33	API Weinschel, Inc.	CL4339	04/29/2026	Annual
#30 dB Attenuator	WA93-30-33	Weinschel Associates	0190	03/11/2026	Annual
20 dB Attenuator	FAS-23-20	MCLI	103756	12/16/2026	Annual
#50Ω Termination	908A	H.P.	N/A	N/A	N/A
DC Power Supply	EX 60-40	ODA	ODA-02-0923-01601	02/13/2026	Annual
Temperature and Humidity Chamber	NY-THR18750	NANGYEAL	NY-200912201A	12/16/2026	Annual
Amp & Filter Bank Switch Controller	FBSM-01B	TNM system	TM20090002	N/A	N/A
Controller(Antenna Mast & Turn Table)	CO3000	Innco system	CO3000/1251/48920320/P	N/A	N/A
Antenna Mast	MA4640	Innco system	S4AM	08/01/2026	Annual
Turn Table	1060	Innco system	N/A	N/A	N/A
Turn Table	N/A	Ets	N/A	N/A	N/A
Loop Antenna	FMZB 1513	Rohde & Schwarz	1513-333	06/23/2027	Biennial
BILOG Antenna	VULB 9168	Schwarzbeck	9168-0895	08/28/2026	Biennial
Horn Antenna	BBHA 9120D	Schwarzbeck	9120D-937	02/07/2027	Biennial
Horn Antenna	BBHA9170	Schwarzbeck	BBHA9170342	09/20/2026	Biennial
RF Switching System	FBSR-04C (3 GHz HPF + LNA)	TNM system	S4L1	03/12/2026	Annual
RF Switching System	FBSR-04C (10 dB ATT + LNA)	TNM system	S4L2	03/12/2026	Annual
RF Switching System	FBSR-04C (3 dB ATT + LNA)	TNM system	S4L3	03/12/2026	Annual
RF Switching System	FBSR-04C (LNA)	TNM system	S4L4	03/12/2026	Annual
RF Switching System	FBSR-04C (Thru)	TNM system	S4L6	03/12/2026	Annual
LOW NOISE AMPLIFIER	TK-PA1840H	TESTEK	170011-L	09/29/2026	Annual

#This equipment has been used to each port, but we only listed one equipment for simplicity.

Notes:

- 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.

§ 24.232 Power and antenna height limits.

- (a) (2) Base stations with an emission bandwidth greater than 1 MHz are limited to 1640 watts/MHz equivalent isotropically radiated power (EIRP) with an antenna height up to 300 meters HAAT, except as described in paragraph (b) below.
- (b) (2) Base stations that are located in counties with population densities of 100 persons or fewer per square mile, based upon the most recently available population statistics from the Bureau of the Census, with an emission bandwidth greater than 1 MHz are limited to 3280 watts/MHz equivalent isotropically radiated power (EIRP) with an antenna height up to 300 meters HAAT.

§ 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:
 - (1) The power of each fixed or base station transmitting in the 1995-2000 MHz, 2110-2155 MHz, 2155-2180 MHz or 2180-2200 MHz band and located in any 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, is limited to:

- (ii) An EIRP of 3280 watts/MHz when transmitting with an emission bandwidth greater than 1 MHz.
- (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 5.2.4.4.2 of ANSI C63.26.

When the fundamental condition for average power measurements cannot be realized (i.e., the EUT cannot be configured to transmit at full-power on a continuous basis (i.e., duty cycle < 98%) and the instrumentation cannot be configured to measure only during active full-power transmissions), then the following procedure can be used if the EUT duty cycle is constant (i.e., duty cycle variations are less than or equal to $\pm 2\%$). See 5.2.4.3.4 for guidance on measurement of duty cycle.

- 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 $\geq [10 \times (\text{number of points in sweep}) \times (\text{transmission symbol period})]$ for single sweep (automation-compatible) measurement.
- f) Detector = power averaging (rms).
- g) Set sweep trigger to "free run."
- h) Trace average at least 100 traces in power averaging (rms) mode if sweep is set to auto-couple. To accurately determine the average power over the on and off time of the transmitter, it can be necessary to increase the number of traces to be averaged above 100, or if using a manually configured sweep time, increase the sweep time.
- i) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band or channel power measurement function with band/channel limits set equal to the OBW band edges. If the instrument does not have a band or channel power function, sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.
- j) Add $10 \log (1/\text{duty cycle})$ to the measured power level to compute the average power during continuous transmission. For example, add $[10 \log (1/0.25)] = 6 \text{ dB}$ if the duty cycle is a constant 25%.

The PSD 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:

1. The results of the Conducted Output Power and PSD tests show a similar trend across all ports, and all measured values fall within the allowable tolerance; therefore, only the worst-case plot is attached.
2. The conducted output power and PSD levels are measured at each antenna port and then mathematically summed to determine the total values from the device.
3. According to the test results, to comply with the EIRP limit of the applicable specification, the antenna gain must not exceed the values listed below. However, if a higher gain antenna is used, the output power must be reduced accordingly based on the test results.
 - 1640 watts/MHz limit: 18.52 dBi
 - 3280 watts/MHz limit: 21.53 dBi

Tabular Data by DSS Ratio

(4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier 2to8 [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
2	QPSK	Middle	2 145.00	44.60	28.86
	16QAM	Middle	2 145.00	44.71	29.56
	64QAM	Middle	2 145.00	44.63	29.07
	256QAM	Middle	2 145.00	44.64	29.09

(4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier 3to7 [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
2	QPSK	Middle	2 145.00	44.54	28.42
	16QAM	Middle	2 145.00	44.63	29.03
	64QAM	Middle	2 145.00	44.60	28.83
	256QAM	Middle	2 145.00	44.64	29.10

(4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier 4to6 [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
2	QPSK	Middle	2 145.00	44.61	28.93
	16QAM	Middle	2 145.00	44.64	29.12
	64QAM	Middle	2 145.00	44.62	28.99
	256QAM	Middle	2 145.00	44.60	28.86

(4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier 5to5 [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
2	QPSK	Middle	2 145.00	44.56	28.59
	16QAM	Middle	2 145.00	44.56	28.55
	64QAM	Middle	2 145.00	44.58	28.70
	256QAM	Middle	2 145.00	44.60	28.83

(4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier 6to4 [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
2	QPSK	Middle	2 145.00	44.62	28.99
	16QAM	Middle	2 145.00	44.54	28.44
	64QAM	Middle	2 145.00	44.55	28.52
	256QAM	Middle	2 145.00	44.58	28.74

(4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier 7o3 [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
2	QPSK	Middle	2 145.00	44.55	28.49
	16QAM	Middle	2 145.00	44.54	28.46
	64QAM	Middle	2 145.00	44.50	28.20
	256QAM	Middle	2 145.00	44.43	27.71

(4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier 8to2 [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
2	QPSK	Middle	2 145.00	44.44	27.82
	16QAM	Middle	2 145.00	44.40	27.52
	64QAM	Middle	2 145.00	44.53	28.35
	256QAM	Middle	2 145.00	44.49	28.09

(4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier 9to1 [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
2	QPSK	Middle	2 145.00	44.52	28.33
	16QAM	Middle	2 145.00	44.48	28.05
	64QAM	Middle	2 145.00	44.45	27.85
	256QAM	Middle	2 145.00	44.48	28.05

Notes:

- Measurements were performed for all DSS ratios, all channels, and all modulation schemes. Only the middle channel values of port 2 are listed for each ratio.
- All results based on DSS ratios are within the power tolerance.
- This report includes only the results for the worst-case ratio, which is LTE:NR = 2:8.

In the multi-carrier mode addressed in this report, the worst-case LTE:5G NR ratio (2:8) is applied based on the test results from the single-carrier DSS mode.

Test Results:

Tabular Data of RF Output Power
(4 Port) n2 5G NR 25 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	1 942.50	42.58	18.13
		Middle	1 960.00	42.31	17.01
		High	1 977.50	42.28	16.91
	16QAM	Low	1 942.50	42.57	18.06
		Middle	1 960.00	42.27	16.88
		High	1 977.50	42.41	17.41
	64QAM	Low	1 942.50	42.62	18.28
		Middle	1 960.00	42.32	17.06
		High	1 977.50	42.37	17.26
	256QAM	Low	1 942.50	42.49	17.76
		Middle	1 960.00	42.35	17.19
		High	1 977.50	42.41	17.42
1	QPSK	Low	1 942.50	42.83	19.19
		Middle	1 960.00	42.53	17.90
		High	1 977.50	42.38	17.29
	16QAM	Low	1 942.50	42.79	18.99
		Middle	1 960.00	42.63	18.32
		High	1 977.50	42.60	18.18
	64QAM	Low	1 942.50	42.88	19.43
		Middle	1 960.00	42.60	18.21
		High	1 977.50	42.57	18.07
	256QAM	Low	1 942.50	42.93	19.64
		Middle	1 960.00	42.61	18.25
		High	1 977.50	42.68	18.52
2	QPSK	Low	1 942.50	42.44	17.55
		Middle	1 960.00	42.22	16.68
		High	1 977.50	42.19	16.54
	16QAM	Low	1 942.50	42.47	17.66
		Middle	1 960.00	42.32	17.06
		High	1 977.50	42.39	17.34
	64QAM	Low	1 942.50	42.42	17.45
		Middle	1 960.00	42.30	16.97
		High	1 977.50	42.40	17.38
	256QAM	Low	1 942.50	42.52	17.85
		Middle	1 960.00	42.36	17.23
		High	1 977.50	42.42	17.48
3	QPSK	Low	1 942.50	43.45	22.14
		Middle	1 960.00	43.19	20.86
		High	1 977.50	43.21	20.93
	16QAM	Low	1 942.50	43.44	22.06
		Middle	1 960.00	43.18	20.79
		High	1 977.50	43.22	21.00
	64QAM	Low	1 942.50	43.38	21.80
		Middle	1 960.00	43.31	21.45
		High	1 977.50	43.24	21.10
	256QAM	Low	1 942.50	43.47	22.21
		Middle	1 960.00	43.27	21.22
		High	1 977.50	43.27	21.24

Sum Data of Port 0, Port 1, Port 2 and Port 3

Frequency (MHz)	Output Power (Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
1 942.50	77.01	76.77	76.97	77.47
1 960.00	72.45	73.05	73.68	73.89
1 977.50	71.66	73.94	73.80	74.66

(4 Port) n66 5G NR 25 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	2 122.50	45.00	31.65
		Middle	2 145.00	45.46	35.15
		High	2 167.50	44.92	31.07
	16QAM	Low	2 122.50	44.93	31.08
		Middle	2 145.00	45.32	34.01
		High	2 167.50	44.87	30.67
	64QAM	Low	2 122.50	45.10	32.33
		Middle	2 145.00	45.29	33.81
		High	2 167.50	44.85	30.56
	256QAM	Low	2 122.50	45.15	32.76
		Middle	2 145.00	45.29	33.80
		High	2 167.50	45.15	32.76
1	QPSK	Low	2 122.50	44.81	30.24
		Middle	2 145.00	45.34	34.21
		High	2 167.50	44.97	31.39
	16QAM	Low	2 122.50	44.98	31.44
		Middle	2 145.00	45.28	33.76
		High	2 167.50	44.84	30.46
	64QAM	Low	2 122.50	44.91	30.96
		Middle	2 145.00	45.38	34.50
		High	2 167.50	44.76	29.92
	256QAM	Low	2 122.50	45.06	32.03
		Middle	2 145.00	45.31	33.93
		High	2 167.50	44.89	30.86
2	QPSK	Low	2 122.50	44.57	28.63
		Middle	2 145.00	44.30	26.93
		High	2 167.50	44.63	29.02
	16QAM	Low	2 122.50	44.83	30.42
		Middle	2 145.00	44.28	26.76
		High	2 167.50	44.60	28.83
	64QAM	Low	2 122.50	44.77	30.02
		Middle	2 145.00	44.14	25.92
		High	2 167.50	44.44	27.78
	256QAM	Low	2 122.50	45.00	31.59
		Middle	2 145.00	44.05	25.39
		High	2 167.50	44.43	27.73
3	QPSK	Low	2 122.50	45.41	34.79
		Middle	2 145.00	45.10	32.34
		High	2 167.50	45.21	33.19
	16QAM	Low	2 122.50	45.54	35.82
		Middle	2 145.00	45.08	32.19
		High	2 167.50	45.17	32.92
	64QAM	Low	2 122.50	45.44	35.03
		Middle	2 145.00	44.96	31.35
		High	2 167.50	45.15	32.73
	256QAM	Low	2 122.50	45.50	35.47
		Middle	2 145.00	44.91	30.97
		High	2 167.50	45.15	32.75

Sum Data of Port 0, Port 1, Port 2 and Port 3

Frequency (MHz)	Output Power (Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2 122.50	125.31	128.76	128.34	131.86
2 145.00	128.63	126.72	125.58	124.08
2 167.50	124.67	122.88	120.98	124.10

(4 Port) n66 5G NR 30 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	2 125.00	44.83	30.42
		Middle	2 145.00	45.42	34.84
		High	2 165.00	44.70	29.50
	16QAM	Low	2 125.00	45.26	33.54
		Middle	2 145.00	45.22	33.27
		High	2 165.00	44.94	31.20
	64QAM	Low	2 125.00	45.19	33.04
		Middle	2 145.00	45.22	33.26
		High	2 165.00	45.00	31.62
	256QAM	Low	2 125.00	45.18	32.95
		Middle	2 145.00	45.26	33.55
		High	2 165.00	44.44	27.80
1	QPSK	Low	2 125.00	44.99	31.52
		Middle	2 145.00	45.41	34.79
		High	2 165.00	44.91	30.97
	16QAM	Low	2 125.00	45.11	32.43
		Middle	2 145.00	45.49	35.36
		High	2 165.00	44.80	30.19
	64QAM	Low	2 125.00	45.17	32.86
		Middle	2 145.00	45.50	35.47
		High	2 165.00	44.72	29.62
	256QAM	Low	2 125.00	45.15	32.76
		Middle	2 145.00	45.51	35.55
		High	2 165.00	44.75	29.86
2	QPSK	Low	2 125.00	44.72	29.67
		Middle	2 145.00	44.23	26.47
		High	2 165.00	44.16	26.09
	16QAM	Low	2 125.00	44.76	29.94
		Middle	2 145.00	44.38	27.40
		High	2 165.00	44.70	29.52
	64QAM	Low	2 125.00	44.86	30.59
		Middle	2 145.00	44.38	27.43
		High	2 165.00	44.31	26.96
	256QAM	Low	2 125.00	44.97	31.39
		Middle	2 145.00	44.45	27.89
		High	2 165.00	44.48	28.06
3	QPSK	Low	2 125.00	45.44	35.03
		Middle	2 145.00	45.07	32.13
		High	2 165.00	45.25	33.47
	16QAM	Low	2 125.00	45.49	35.43
		Middle	2 145.00	45.11	32.44
		High	2 165.00	45.22	33.27
	64QAM	Low	2 125.00	45.48	35.32
		Middle	2 145.00	45.06	32.03
		High	2 165.00	45.27	33.65
	256QAM	Low	2 125.00	45.51	35.60
		Middle	2 145.00	45.08	32.22
		High	2 165.00	45.24	33.40

Sum Data of Port 0, Port 1, Port 2 and Port 3

Frequency (MHz)	Output Power (Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2 125.00	126.63	131.34	131.81	132.70
2 145.00	128.24	128.47	128.18	129.21
2 165.00	120.03	124.18	121.85	119.12

Tabular Data of RF Contiguous Output Power

(4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	2 125.00	44.73	29.73
		Middle	2 145.00	45.26	33.61
		High	2 165.00	44.97	31.43
	16QAM	Low	2 125.00	44.54	28.44
		Middle	2 145.00	45.37	34.42
		High	2 165.00	45.47	35.23
	64QAM	Low	2 125.00	44.87	30.72
		Middle	2 145.00	45.50	35.50
		High	2 165.00	44.60	28.84
	256QAM	Low	2 125.00	44.82	30.32
		Middle	2 145.00	45.36	34.37
		High	2 165.00	44.91	30.99
1	QPSK	Low	2 125.00	44.83	30.39
		Middle	2 145.00	44.86	30.58
		High	2 165.00	45.24	33.40
	16QAM	Low	2 125.00	44.86	30.65
		Middle	2 145.00	45.27	33.67
		High	2 165.00	44.95	31.22
	64QAM	Low	2 125.00	45.09	32.31
		Middle	2 145.00	45.32	34.04
		High	2 165.00	45.54	35.79
	256QAM	Low	2 125.00	44.73	29.71
		Middle	2 145.00	45.32	34.05
		High	2 165.00	45.40	34.66
2	QPSK	Low	2 125.00	44.63	29.04
		Middle	2 145.00	44.53	28.40
		High	2 165.00	44.52	28.34
	16QAM	Low	2 125.00	44.49	28.12
		Middle	2 145.00	44.64	29.13
		High	2 165.00	44.70	29.51
	64QAM	Low	2 125.00	44.08	25.61
		Middle	2 145.00	44.65	29.17
		High	2 165.00	44.59	28.77
	256QAM	Low	2 125.00	44.70	29.51
		Middle	2 145.00	44.59	28.77
		High	2 165.00	44.73	29.73
3	QPSK	Low	2 125.00	45.22	33.27
		Middle	2 145.00	45.58	36.15
		High	2 165.00	45.52	35.60
	16QAM	Low	2 125.00	45.21	33.20
		Middle	2 145.00	45.46	35.16
		High	2 165.00	45.66	36.82
	64QAM	Low	2 125.00	45.32	34.05
		Middle	2 145.00	45.64	36.60
		High	2 165.00	45.51	35.54
	256QAM	Low	2 125.00	45.34	34.21
		Middle	2 145.00	45.38	34.51
		High	2 165.00	45.57	36.02

Sum Data of Port 0, Port 1, Port 2 and Port 3

Frequency (MHz)	Output Power (Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2 125.00	122.44	120.42	122.68	123.75
2 145.00	128.74	132.38	135.31	131.71
2 165.00	128.78	132.79	128.95	131.40

(4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	2 127.50	44.74	29.79
		Middle	2 145.00	45.01	31.72
		High	2 162.50	44.92	31.05
	16QAM	Low	2 127.50	44.84	30.49
		Middle	2 145.00	44.70	29.49
		High	2 162.50	45.26	33.55
	64QAM	Low	2 127.50	44.93	31.13
		Middle	2 145.00	45.13	32.61
		High	2 162.50	44.69	29.46
	256QAM	Low	2 127.50	44.89	30.81
		Middle	2 145.00	44.65	29.19
		High	2 162.50	44.73	29.71
1	QPSK	Low	2 127.50	44.74	29.79
		Middle	2 145.00	44.94	31.20
		High	2 162.50	45.02	31.78
	16QAM	Low	2 127.50	44.84	30.48
		Middle	2 145.00	45.08	32.18
		High	2 162.50	44.79	30.16
	64QAM	Low	2 127.50	45.15	32.76
		Middle	2 145.00	45.19	33.02
		High	2 162.50	44.92	31.07
	256QAM	Low	2 127.50	44.82	30.33
		Middle	2 145.00	45.20	33.15
		High	2 162.50	44.88	30.78
2	QPSK	Low	2 127.50	44.79	30.14
		Middle	2 145.00	44.01	25.16
		High	2 162.50	44.59	28.75
	16QAM	Low	2 127.50	44.76	29.93
		Middle	2 145.00	44.49	28.09
		High	2 162.50	44.57	28.62
	64QAM	Low	2 127.50	44.74	29.76
		Middle	2 145.00	44.02	25.22
		High	2 162.50	44.61	28.91
	256QAM	Low	2 127.50	44.42	27.67
		Middle	2 145.00	43.88	24.45
		High	2 162.50	44.33	27.10
3	QPSK	Low	2 127.50	45.18	32.95
		Middle	2 145.00	45.21	33.22
		High	2 162.50	45.39	34.59
	16QAM	Low	2 127.50	45.18	32.98
		Middle	2 145.00	45.54	35.78
		High	2 162.50	45.52	35.61
	64QAM	Low	2 127.50	45.27	33.63
		Middle	2 145.00	45.27	33.67
		High	2 162.50	45.55	35.88
	256QAM	Low	2 127.50	45.45	35.08
		Middle	2 145.00	45.08	32.23
		High	2 162.50	45.19	33.06

Sum Data of Port 0, Port 1, Port 2 and Port 3

Frequency (MHz)	Output Power (Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2 127.50	122.68	123.88	127.28	123.89
2 145.00	121.29	125.54	124.53	119.02
2 162.50	126.17	127.94	125.33	120.65

(4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	2 125.00	44.77	29.98
		Middle	2 145.00	45.14	32.70
		High	2 165.00	45.00	31.64
	16QAM	Low	2 125.00	44.70	29.53
		Middle	2 145.00	45.07	32.14
		High	2 165.00	45.17	32.92
	64QAM	Low	2 125.00	44.73	29.74
		Middle	2 145.00	45.12	32.52
		High	2 165.00	45.24	33.44
	256QAM	Low	2 125.00	44.81	30.24
		Middle	2 145.00	45.19	33.02
		High	2 165.00	44.81	30.28
1	QPSK	Low	2 125.00	44.79	30.10
		Middle	2 145.00	45.19	33.04
		High	2 165.00	44.88	30.79
	16QAM	Low	2 125.00	44.92	31.02
		Middle	2 145.00	45.41	34.73
		High	2 165.00	45.00	31.59
	64QAM	Low	2 125.00	44.84	30.49
		Middle	2 145.00	45.33	34.11
		High	2 165.00	45.01	31.73
	256QAM	Low	2 125.00	45.03	31.82
		Middle	2 145.00	45.34	34.17
		High	2 165.00	45.12	32.49
2	QPSK	Low	2 125.00	44.65	29.17
		Middle	2 145.00	44.16	26.05
		High	2 165.00	44.56	28.57
	16QAM	Low	2 125.00	44.54	28.41
		Middle	2 145.00	44.35	27.25
		High	2 165.00	44.66	29.24
	64QAM	Low	2 125.00	44.69	29.46
		Middle	2 145.00	44.32	27.05
		High	2 165.00	44.44	27.82
	256QAM	Low	2 125.00	44.61	28.89
		Middle	2 145.00	44.41	27.59
		High	2 165.00	44.76	29.90
3	QPSK	Low	2 125.00	45.25	33.49
		Middle	2 145.00	45.31	33.99
		High	2 165.00	45.41	34.74
	16QAM	Low	2 125.00	45.27	33.66
		Middle	2 145.00	45.36	34.36
		High	2 165.00	45.50	35.47
	64QAM	Low	2 125.00	45.34	34.21
		Middle	2 145.00	45.25	33.50
		High	2 165.00	45.43	34.88
	256QAM	Low	2 125.00	45.33	34.10
		Middle	2 145.00	45.28	33.71
		High	2 165.00	45.40	34.67

Sum Data of Port 0, Port 1, Port 2 and Port 3

Frequency (MHz)	Output Power (Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2 125.00	122.75	122.62	123.90	125.05
2 145.00	125.78	128.48	127.18	128.49
2 165.00	125.73	129.22	127.88	127.34

(4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	2 127.50	44.53	28.40
		Middle	2 145.00	44.84	30.45
		High	2 162.50	44.87	30.67
	16QAM	Low	2 127.50	44.49	28.12
		Middle	2 145.00	45.27	33.61
		High	2 162.50	44.87	30.71
	64QAM	Low	2 127.50	44.51	28.26
		Middle	2 145.00	45.35	34.27
		High	2 162.50	44.73	29.74
	256QAM	Low	2 127.50	44.49	28.09
		Middle	2 145.00	44.73	29.70
		High	2 162.50	44.87	30.70
1	QPSK	Low	2 127.50	44.71	29.57
		Middle	2 145.00	44.80	30.21
		High	2 162.50	45.02	31.80
	16QAM	Low	2 127.50	44.87	30.69
		Middle	2 145.00	45.40	34.71
		High	2 162.50	45.01	31.70
	64QAM	Low	2 127.50	44.94	31.16
		Middle	2 145.00	45.00	31.59
		High	2 162.50	44.96	31.35
	256QAM	Low	2 127.50	44.76	29.96
		Middle	2 145.00	45.43	34.92
		High	2 162.50	44.99	31.52
2	QPSK	Low	2 127.50	44.29	26.88
		Middle	2 145.00	44.33	27.10
		High	2 162.50	44.33	27.13
	16QAM	Low	2 127.50	44.29	26.88
		Middle	2 145.00	44.48	28.05
		High	2 162.50	44.52	28.31
	64QAM	Low	2 127.50	44.43	27.76
		Middle	2 145.00	44.46	27.92
		High	2 162.50	44.19	26.22
	256QAM	Low	2 127.50	44.41	27.63
		Middle	2 145.00	44.33	27.13
		High	2 162.50	44.27	26.75
3	QPSK	Low	2 127.50	45.08	32.19
		Middle	2 145.00	45.30	33.88
		High	2 162.50	45.28	33.71
	16QAM	Low	2 127.50	45.11	32.46
		Middle	2 145.00	45.24	33.40
		High	2 162.50	45.52	35.61
	64QAM	Low	2 127.50	45.05	32.03
		Middle	2 145.00	45.15	32.76
		High	2 162.50	45.43	34.88
	256QAM	Low	2 127.50	45.09	32.28
		Middle	2 145.00	45.22	33.27
		High	2 162.50	45.38	34.49

Sum Data of Port 0, Port 1, Port 2 and Port 3

Frequency (MHz)	Output Power (Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2 127.50	117.04	118.14	119.21	117.97
2 145.00	121.64	129.78	126.55	125.03
2 162.50	123.31	126.33	122.19	123.47

(4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	2 127.50	44.60	28.86
		Middle	2 145.00	45.12	32.51
		High	2 162.50	44.69	29.42
	16QAM	Low	2 127.50	44.66	29.25
		Middle	2 145.00	45.22	33.24
		High	2 162.50	45.07	32.14
	64QAM	Low	2 127.50	44.76	29.96
		Middle	2 145.00	44.84	30.51
		High	2 162.50	45.29	33.80
	256QAM	Low	2 127.50	44.69	29.44
		Middle	2 145.00	44.91	31.00
		High	2 162.50	45.02	31.73
1	QPSK	Low	2 127.50	44.45	27.85
		Middle	2 145.00	44.71	29.61
		High	2 162.50	44.86	30.64
	16QAM	Low	2 127.50	44.40	27.54
		Middle	2 145.00	44.88	30.73
		High	2 162.50	45.20	33.14
	64QAM	Low	2 127.50	44.54	28.46
		Middle	2 145.00	45.11	32.45
		High	2 162.50	44.58	28.73
	256QAM	Low	2 127.50	44.72	29.63
		Middle	2 145.00	44.81	30.26
		High	2 162.50	44.83	30.40
2	QPSK	Low	2 127.50	44.66	29.21
		Middle	2 145.00	44.60	28.86
		High	2 162.50	44.51	28.26
	16QAM	Low	2 127.50	44.42	27.69
		Middle	2 145.00	44.71	29.56
		High	2 162.50	44.74	29.79
	64QAM	Low	2 127.50	44.73	29.70
		Middle	2 145.00	44.64	29.09
		High	2 162.50	44.73	29.68
	256QAM	Low	2 127.50	44.74	29.81
		Middle	2 145.00	44.64	29.14
		High	2 162.50	44.81	30.28
3	QPSK	Low	2 127.50	44.71	29.59
		Middle	2 145.00	45.47	35.20
		High	2 162.50	45.28	33.70
	16QAM	Low	2 127.50	45.22	33.26
		Middle	2 145.00	45.55	35.88
		High	2 162.50	45.54	35.78
	64QAM	Low	2 127.50	45.40	34.70
		Middle	2 145.00	45.61	36.40
		High	2 162.50	45.32	34.06
	256QAM	Low	2 127.50	45.29	33.83
		Middle	2 145.00	45.62	36.47
		High	2 162.50	45.55	35.89

Sum Data of Port 0, Port 1, Port 2 and Port 3

Frequency (MHz)	Output Power (Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2 127.50	115.52	117.74	122.81	122.71
2 145.00	126.17	129.40	128.45	126.87
2 162.50	122.02	130.84	126.27	128.31

Tabular Data of RF Non-Contiguous Output Power

(4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier]

Ant.	Mod.	B66 LTE 5 MHz 1 Carrier		n66 5G NR 25 MHz 1 Carrier		Summation Value (dBm)	Calculated (W)
		Frequency (MHz)	Measured Value (dBm)	Frequency (MHz)	Measured Value (dBm)		
0	QPSK	2 112.50	37.24	2 167.50	44.21	45.00	31.65
	16QAM	2 112.50	36.99	2 167.50	44.09	44.87	30.66
	64QAM	2 112.50	37.06	2 167.50	44.06	44.85	30.54
	256QAM	2 112.50	36.98	2 167.50	44.06	44.83	30.42
1	QPSK	2 112.50	37.18	2 167.50	44.34	45.11	32.41
	16QAM	2 112.50	37.19	2 167.50	44.38	45.14	32.67
	64QAM	2 112.50	37.00	2 167.50	44.21	44.96	31.36
	256QAM	2 112.50	37.04	2 167.50	44.23	44.99	31.53
2	QPSK	2 112.50	36.87	2 167.50	43.78	44.58	28.74
	16QAM	2 112.50	36.30	2 167.50	43.13	43.95	24.83
	64QAM	2 112.50	37.27	2 167.50	44.08	44.91	30.95
	256QAM	2 112.50	36.73	2 167.50	43.49	44.32	27.05
3	QPSK	2 112.50	37.51	2 167.50	44.57	45.35	34.27
	16QAM	2 112.50	37.23	2 167.50	44.27	45.05	31.98
	64QAM	2 112.50	37.04	2 167.50	44.10	44.88	30.75
	256QAM	2 112.50	36.78	2 167.50	43.88	44.65	29.19

Sum Data of Port 0, Port 1, Port 2 and Port 3

Frequency (MHz)	Output Power (Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2 112.50 + 2 167.50	127.08	120.16	123.60	118.20

(4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier]

Ant.	Mod.	B66 LTE 5 MHz 1 Carrier		n66 5G NR 30 MHz 1 Carrier		Summation Value (dBm)	Calculated (W)
		Frequency (MHz)	Measured Value (dBm)	Frequency (MHz)	Measured Value (dBm)		
0	QPSK	2 112.50	36.18	2 165.00	43.92	44.60	28.83
	16QAM	2 112.50	36.25	2 165.00	44.00	44.67	29.32
	64QAM	2 112.50	36.28	2 165.00	44.17	44.82	30.34
	256QAM	2 112.50	36.28	2 165.00	44.08	44.75	29.85
1	QPSK	2 112.50	35.87	2 165.00	43.93	44.56	28.56
	16QAM	2 112.50	36.12	2 165.00	44.09	44.73	29.73
	64QAM	2 112.50	36.24	2 165.00	44.40	45.01	31.72
	256QAM	2 112.50	36.10	2 165.00	44.20	44.82	30.37
2	QPSK	2 112.50	35.74	2 165.00	43.48	44.16	26.06
	16QAM	2 112.50	35.87	2 165.00	43.60	44.28	26.77
	64QAM	2 112.50	35.96	2 165.00	43.70	44.38	27.41
	256QAM	2 112.50	35.38	2 165.00	43.19	43.85	24.28
3	QPSK	2 112.50	36.72	2 165.00	44.65	45.30	33.85
	16QAM	2 112.50	36.78	2 165.00	44.69	45.34	34.20
	64QAM	2 112.50	36.25	2 165.00	44.11	44.77	29.99
	256QAM	2 112.50	36.44	2 165.00	44.45	45.08	32.24

Sum Data of Port 0, Port 1, Port 2 and Port 3

Frequency (MHz)	Output Power (Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2 112.50 + 2 165.00	117.30	120.02	119.47	116.74

(4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier]

Ant.	Mod.	n66 5G NR 5 MHz 1 Carrier		n66 5G NR 25 MHz 1 Carrier		Summation Value (dBm)	Calculated (W)
		Frequency (MHz)	Measured Value (dBm)	Frequency (MHz)	Measured Value (dBm)		
0	QPSK	2 112.50	36.73	2 167.50	43.80	44.58	28.69
	16QAM	2 112.50	36.88	2 167.50	43.82	44.62	29.00
	64QAM	2 112.50	37.01	2 167.50	43.91	44.72	29.61
	256QAM	2 112.50	36.87	2 167.50	43.84	44.64	29.09
1	QPSK	2 112.50	36.89	2 167.50	44.03	44.80	30.20
	16QAM	2 112.50	36.89	2 167.50	44.13	44.88	30.74
	64QAM	2 112.50	37.00	2 167.50	44.14	44.91	30.98
	256QAM	2 112.50	37.01	2 167.50	44.07	44.85	30.55
2	QPSK	2 112.50	36.80	2 167.50	43.69	44.50	28.16
	16QAM	2 112.50	36.67	2 167.50	43.53	44.34	27.18
	64QAM	2 112.50	36.69	2 167.50	43.54	44.36	27.28
	256QAM	2 112.50	36.74	2 167.50	43.62	44.43	27.73
3	QPSK	2 112.50	37.24	2 167.50	44.32	45.10	32.32
	16QAM	2 112.50	37.42	2 167.50	44.55	45.32	34.06
	64QAM	2 112.50	37.14	2 167.50	44.33	45.09	32.28
	256QAM	2 112.50	37.23	2 167.50	44.28	45.06	32.08

Sum Data of Port 0, Port 1, Port 2 and Port 3

Frequency (MHz)	Output Power (Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2 112.50 + 2 167.50	119.38	120.98	120.16	119.46

(4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier]

Ant.	Mod.	n66 5G NR 5 MHz 1 Carrier		n66 5G NR 30 MHz 1 Carrier		Summation Value (dBm)	Calculated (W)
		Frequency (MHz)	Measured Value (dBm)	Frequency (MHz)	Measured Value (dBm)		
0	QPSK	2 112.50	36.18	2 165.00	43.96	44.63	29.04
	16QAM	2 112.50	36.39	2 165.00	44.11	44.79	30.10
	64QAM	2 112.50	36.18	2 165.00	43.88	44.56	28.60
	256QAM	2 112.50	36.31	2 165.00	44.12	44.79	30.10
1	QPSK	2 112.50	36.23	2 165.00	44.25	44.89	30.80
	16QAM	2 112.50	36.25	2 165.00	44.29	44.92	31.06
	64QAM	2 112.50	36.14	2 165.00	44.16	44.80	30.18
	256QAM	2 112.50	36.46	2 165.00	44.36	45.01	31.70
2	QPSK	2 112.50	35.95	2 165.00	43.68	44.36	27.28
	16QAM	2 112.50	36.05	2 165.00	43.79	44.47	27.97
	64QAM	2 112.50	36.13	2 165.00	43.86	44.53	28.40
	256QAM	2 112.50	36.34	2 165.00	44.07	44.75	29.83
3	QPSK	2 112.50	36.77	2 165.00	44.72	45.36	34.38
	16QAM	2 112.50	36.90	2 165.00	44.80	45.45	35.07
	64QAM	2 112.50	36.49	2 165.00	44.44	45.09	32.27
	256QAM	2 112.50	36.83	2 165.00	44.76	45.41	34.75

Sum Data of Port 0, Port 1, Port 2 and Port 3

Frequency (MHz)	Output Power (Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2 112.50 + 2 165.00	121.51	124.21	119.45	126.38

(4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier]

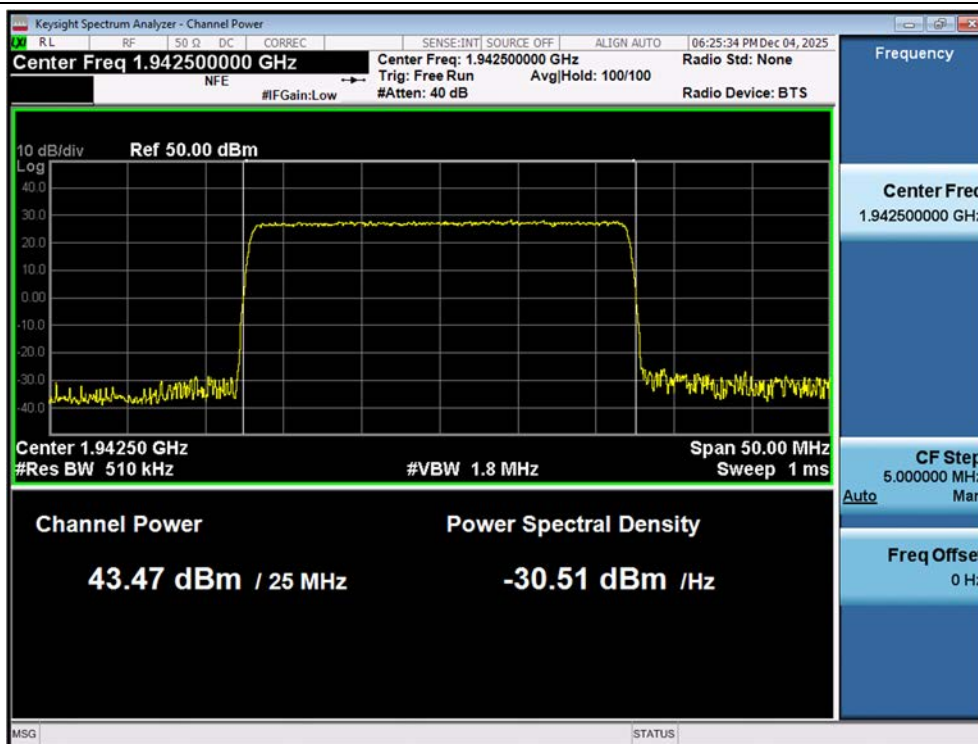
Ant.	Mod.	B66 DSS 10 MHz 1 Carrier		n66 5G NR 25 MHz 1 Carrier		Summation Value (dBm)	Calculated (W)
		Frequency (MHz)	Measured Value (dBm)	Frequency (MHz)	Measured Value (dBm)		
0	QPSK	2 115.00	39.05	2 167.50	43.31	44.69	29.45
	16QAM	2 115.00	38.98	2 167.50	43.32	44.68	29.37
	64QAM	2 115.00	39.01	2 167.50	43.16	44.57	28.67
	256QAM	2 115.00	39.04	2 167.50	43.28	44.67	29.28
1	QPSK	2 115.00	38.92	2 167.50	43.43	44.75	29.84
	16QAM	2 115.00	38.96	2 167.50	43.42	44.75	29.86
	64QAM	2 115.00	39.10	2 167.50	43.40	44.77	30.01
	256QAM	2 115.00	38.96	2 167.50	43.41	44.74	29.81
2	QPSK	2 115.00	38.69	2 167.50	42.85	44.26	26.66
	16QAM	2 115.00	38.36	2 167.50	42.39	43.84	24.19
	64QAM	2 115.00	39.34	2 167.50	43.56	44.96	31.30
	256QAM	2 115.00	39.17	2 167.50	43.34	44.74	29.81
3	QPSK	2 115.00	39.55	2 167.50	43.94	45.29	33.77
	16QAM	2 115.00	39.16	2 167.50	43.47	44.84	30.44
	64QAM	2 115.00	38.89	2 167.50	43.31	44.65	29.17
	256QAM	2 115.00	39.53	2 167.50	43.82	45.19	33.05

Sum Data of Port 0, Port 1, Port 2 and Port 3

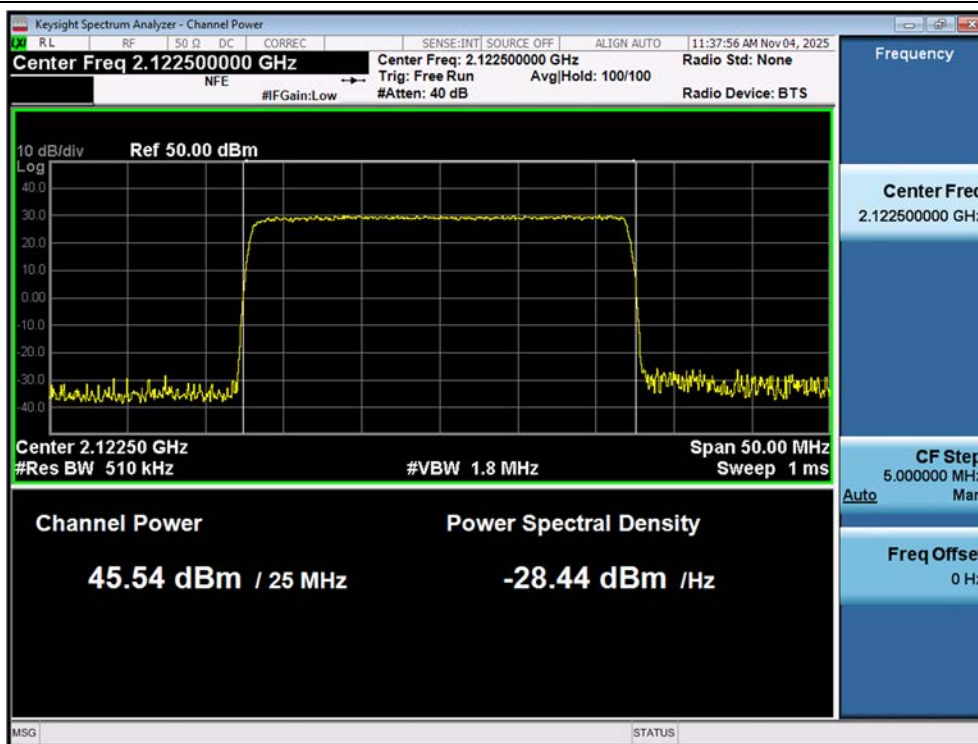
Frequency (MHz)	Output Power (Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
2 115.00 + 2 167.50	119.73	113.86	119.16	121.96

Plot Data of RF Output Power

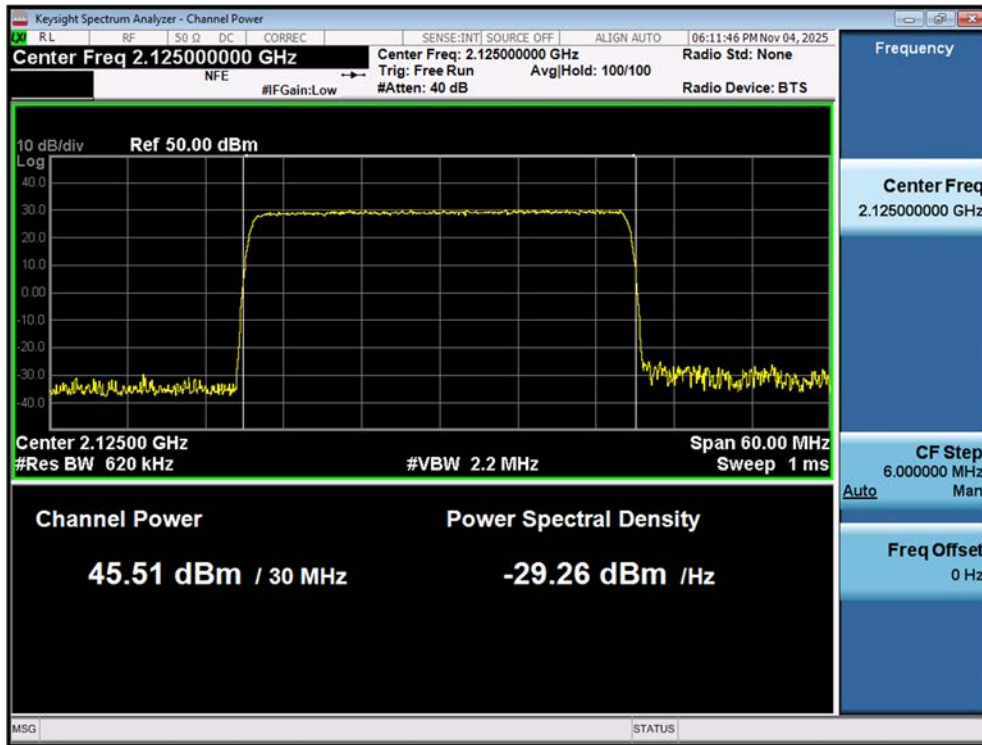
Antenna 3 / (4 Port) n2 5G NR 25 MHz 1 Carrier / 256QAM / Low



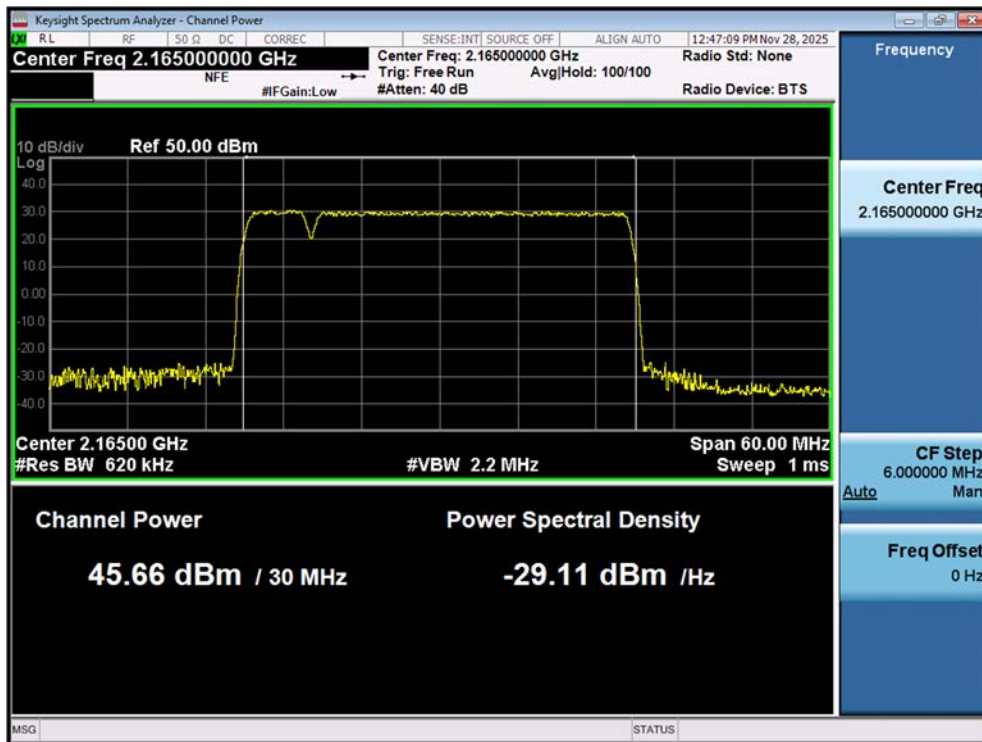
Antenna 3 / (4 Port) n66 5G NR 25 MHz 1 Carrier / 16QAM / Low



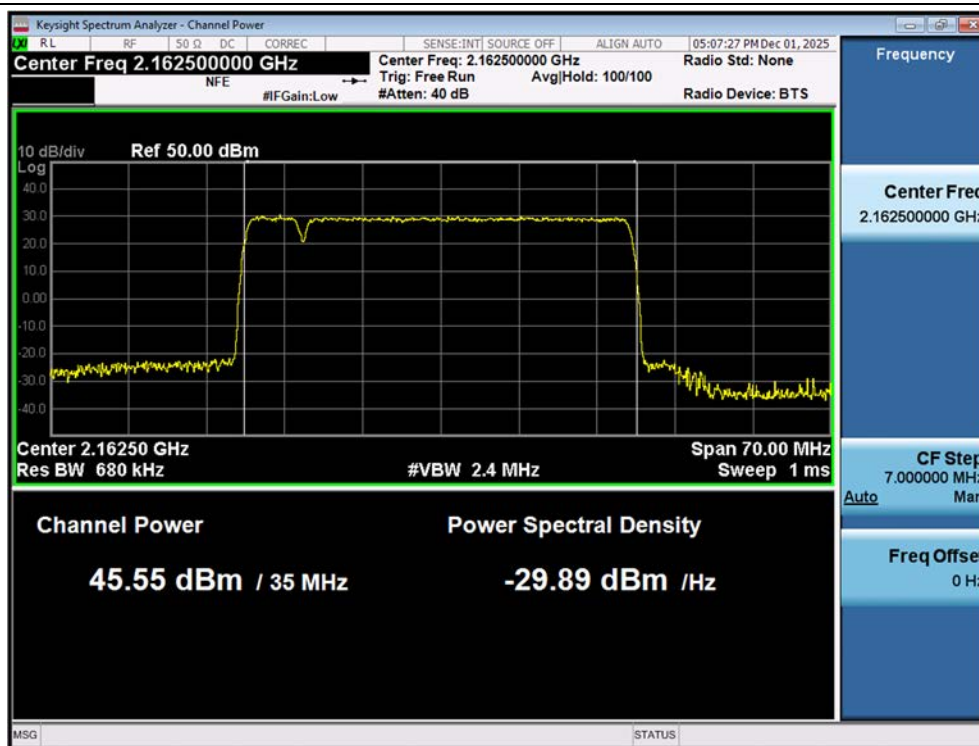
Antenna 3 / (4 Port) n66 5G NR 30 MHz 1 Carrier / 256QAM / Low



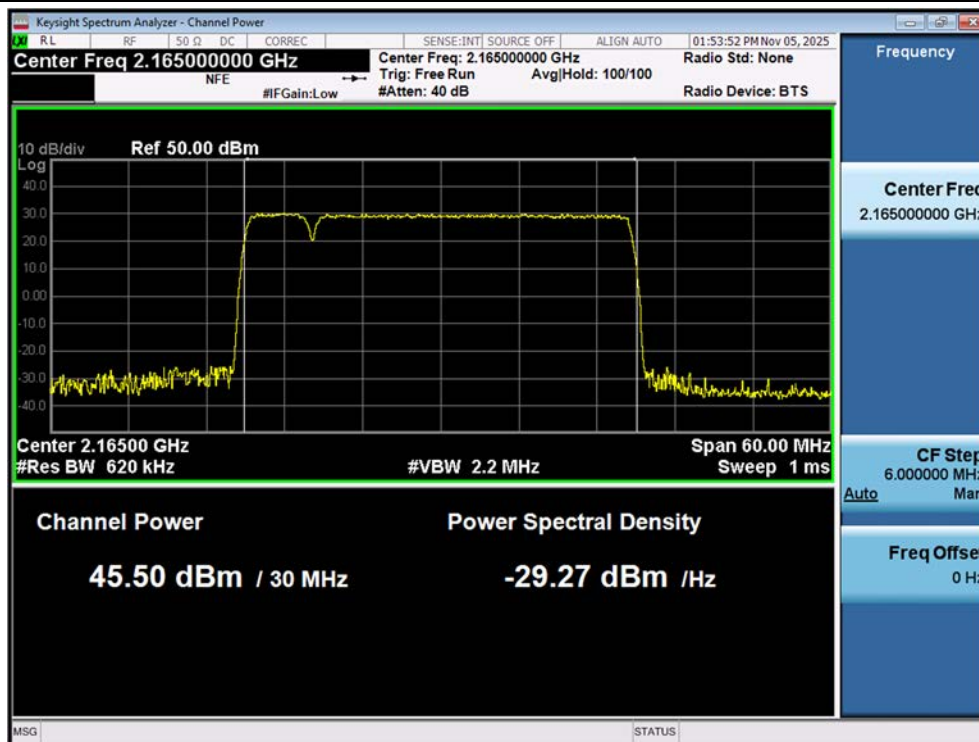
Antenna 3 / (4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / 16QAM / High / Contiguous



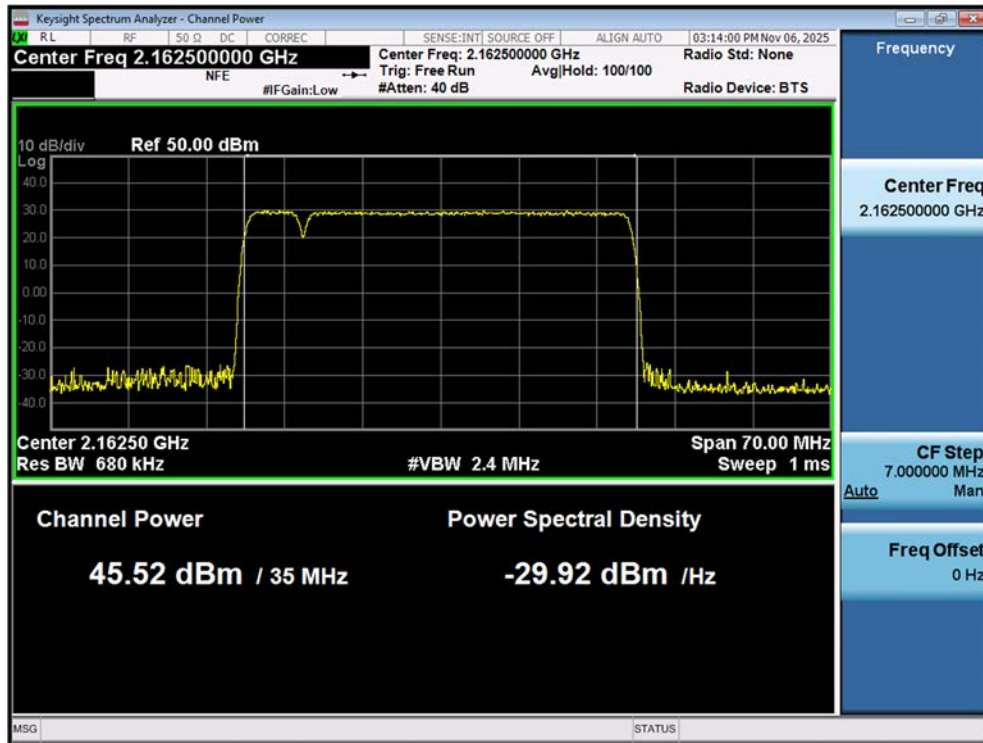
Antenna 3 / (4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier] / 64QAM / High / Contiguous



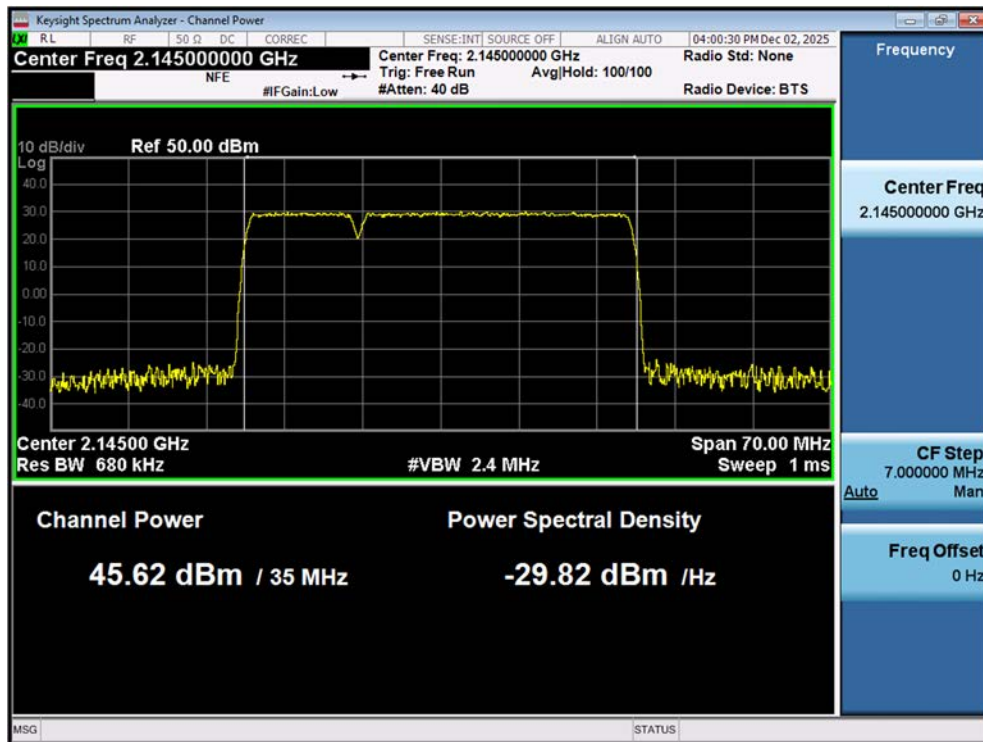
Antenna 3 / (4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / 16QAM / High / Contiguous



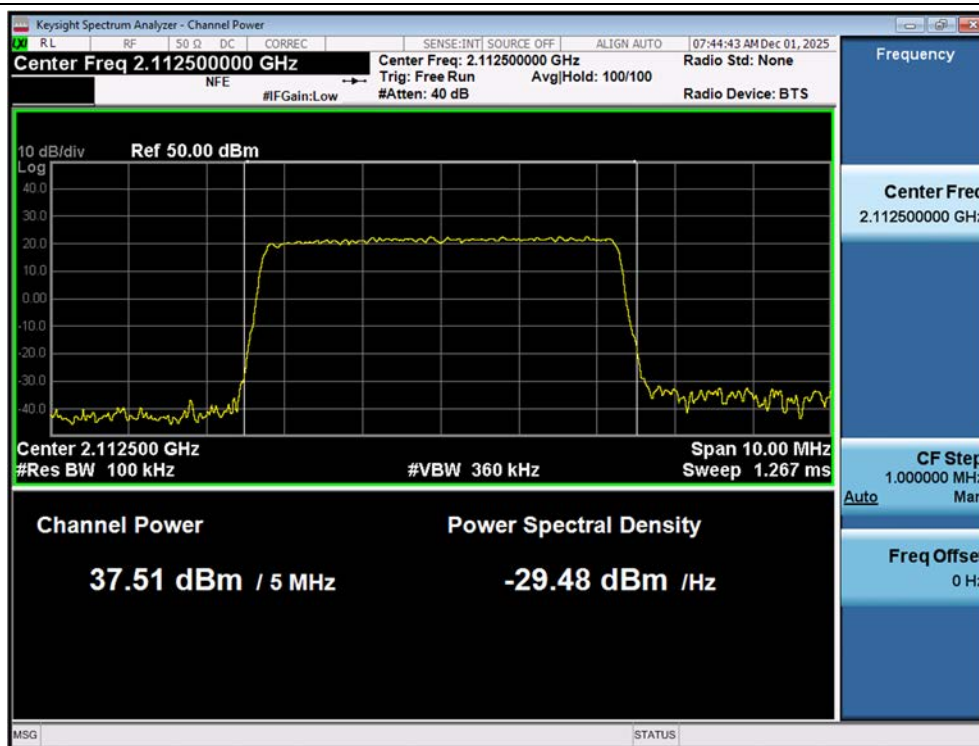
Antenna 3 / (4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier] / 16QAM / High / Contiguous



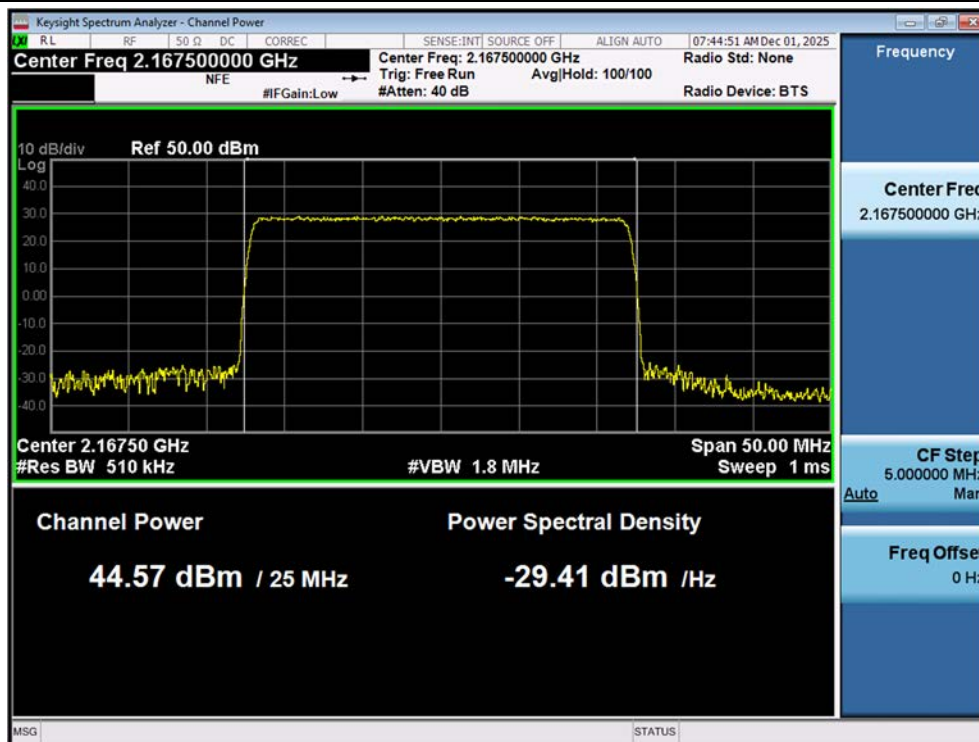
Antenna 3 / (4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / 256QAM / Middle / Contiguous



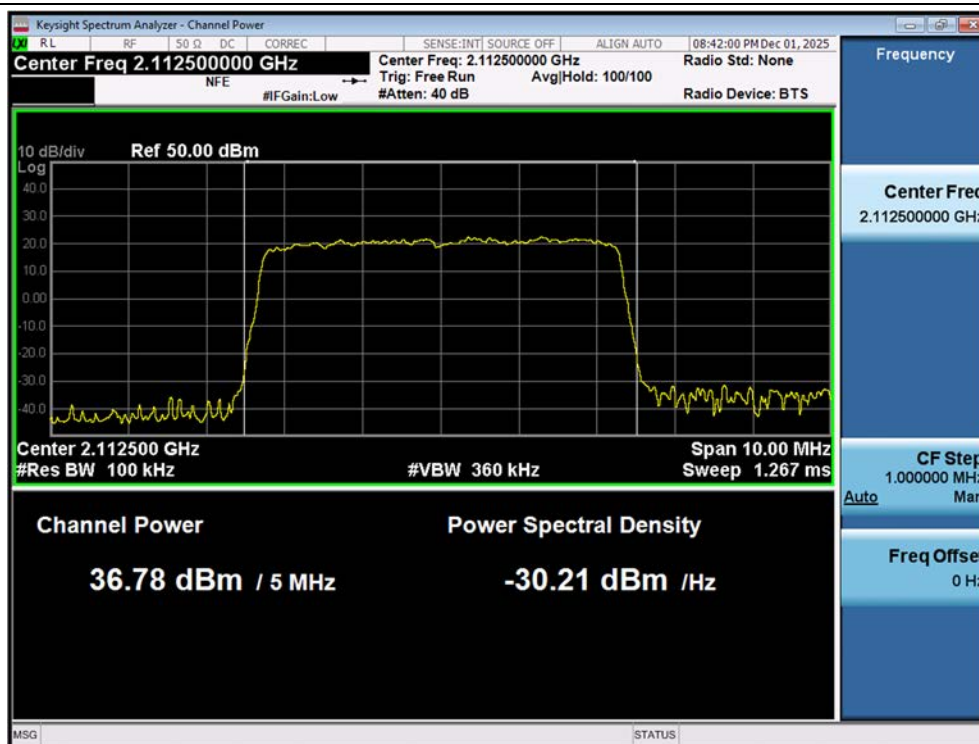
Antenna 3 / (4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / QPSK / Low / Non-Contiguous



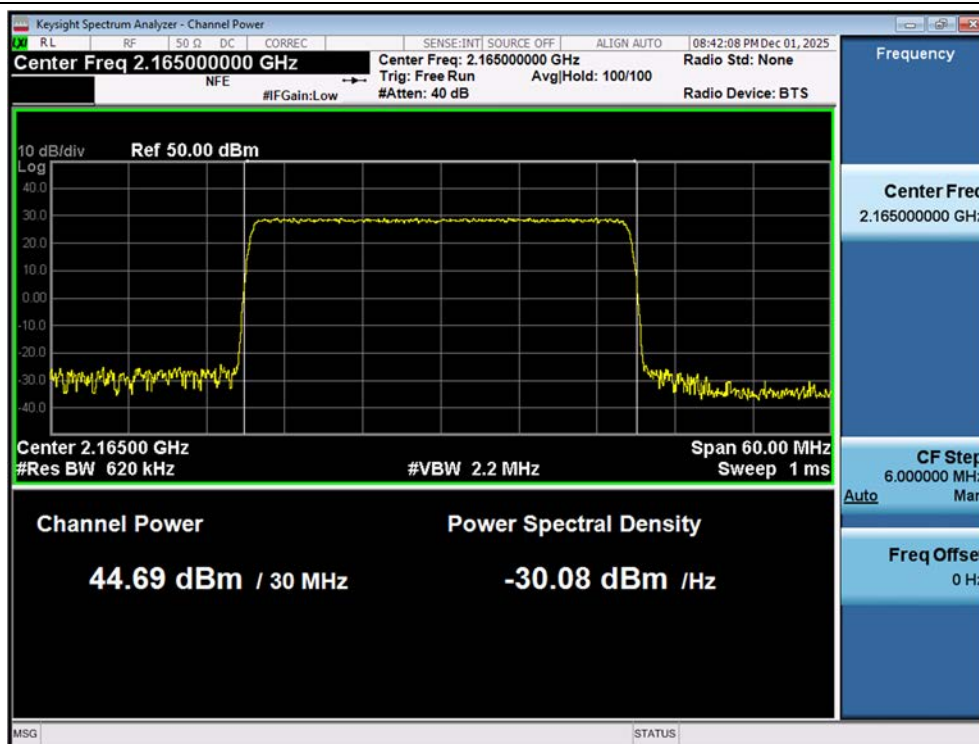
Antenna 3 / (4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / QPSK / High / Non-Contiguous



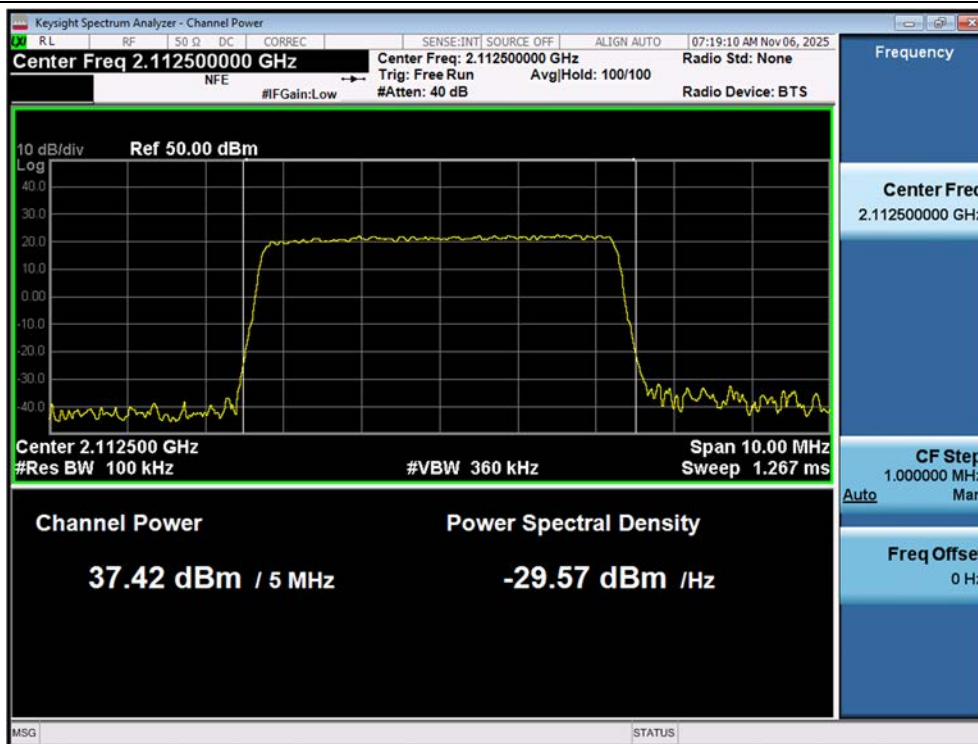
Antenna 3 / (4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier] / 16QAM / Low / Non-Contiguous



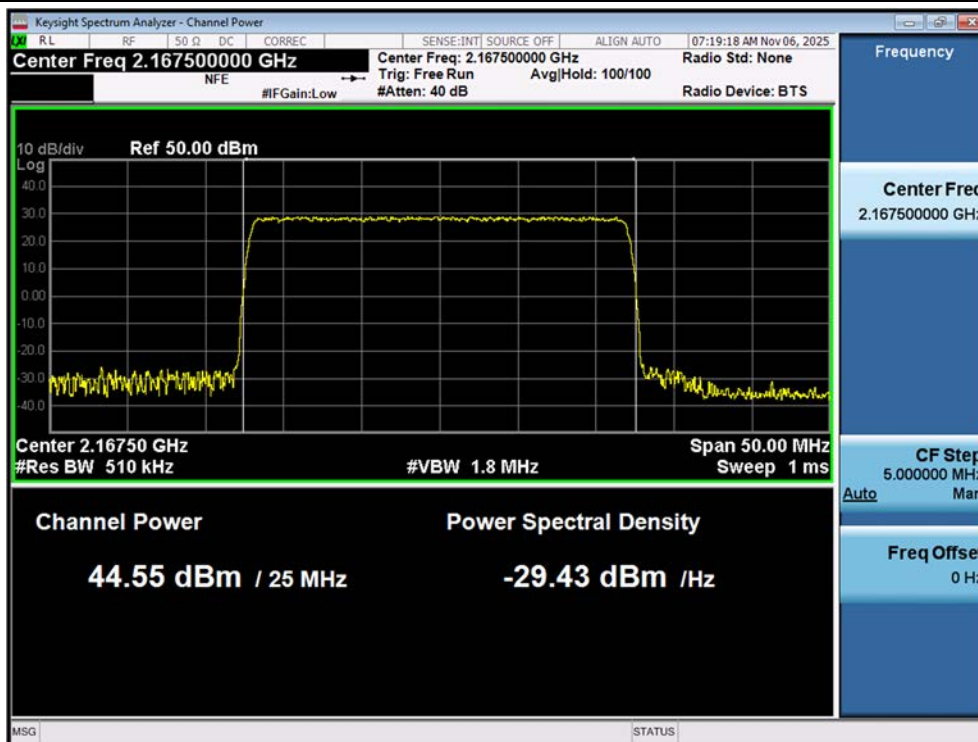
Antenna 3 / (4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier] / 16QAM / High / Non-Contiguous



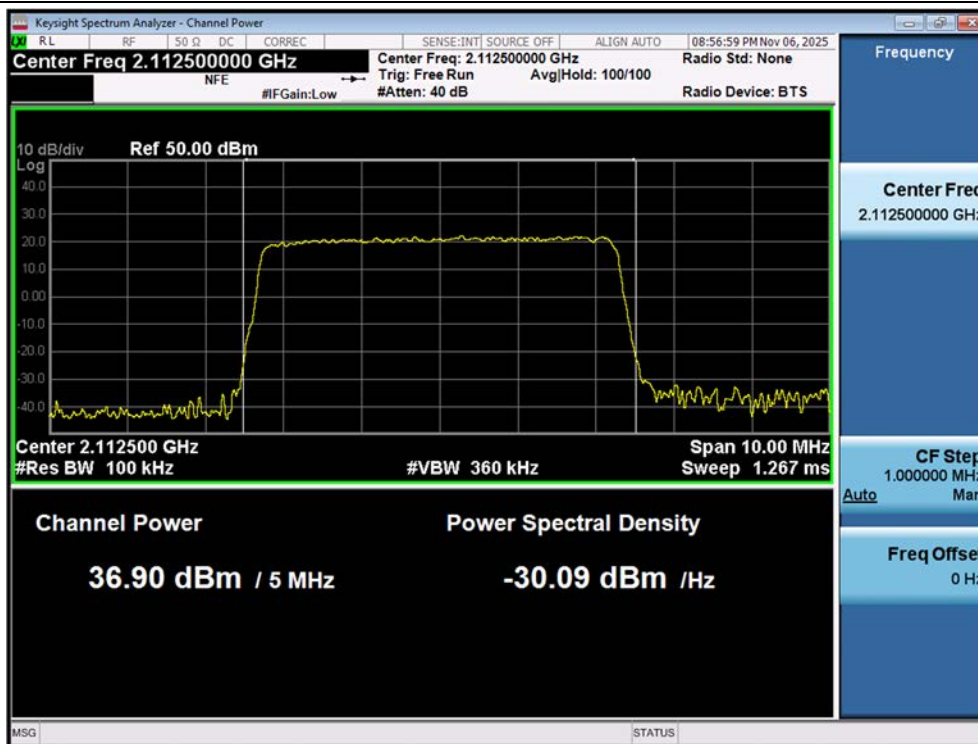
Antenna 3 / (4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / 16QAM / Low / Non-Contiguous



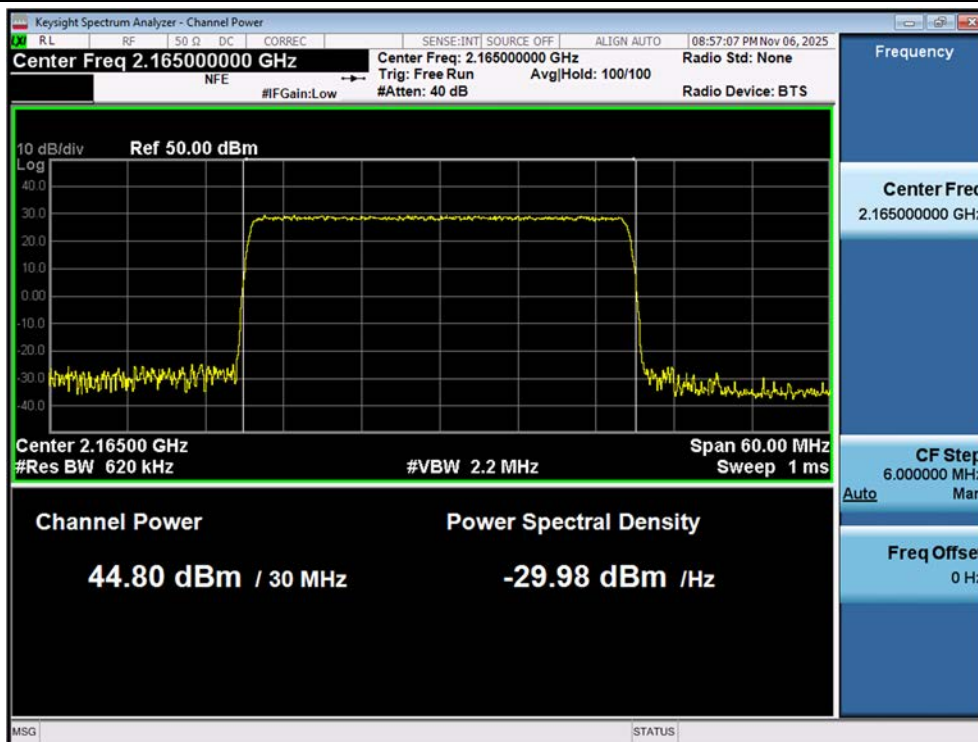
Antenna 3 / (4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / 16QAM / High / Non-Contiguous



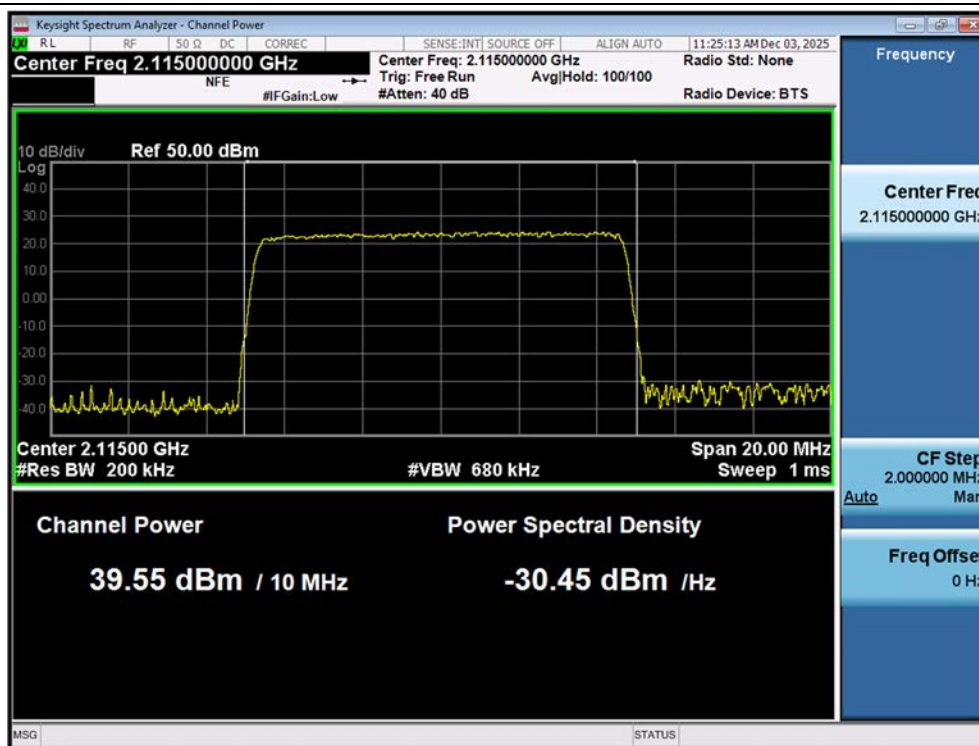
Antenna 3 / (4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier] / 16QAM / Low / Non-Contiguous



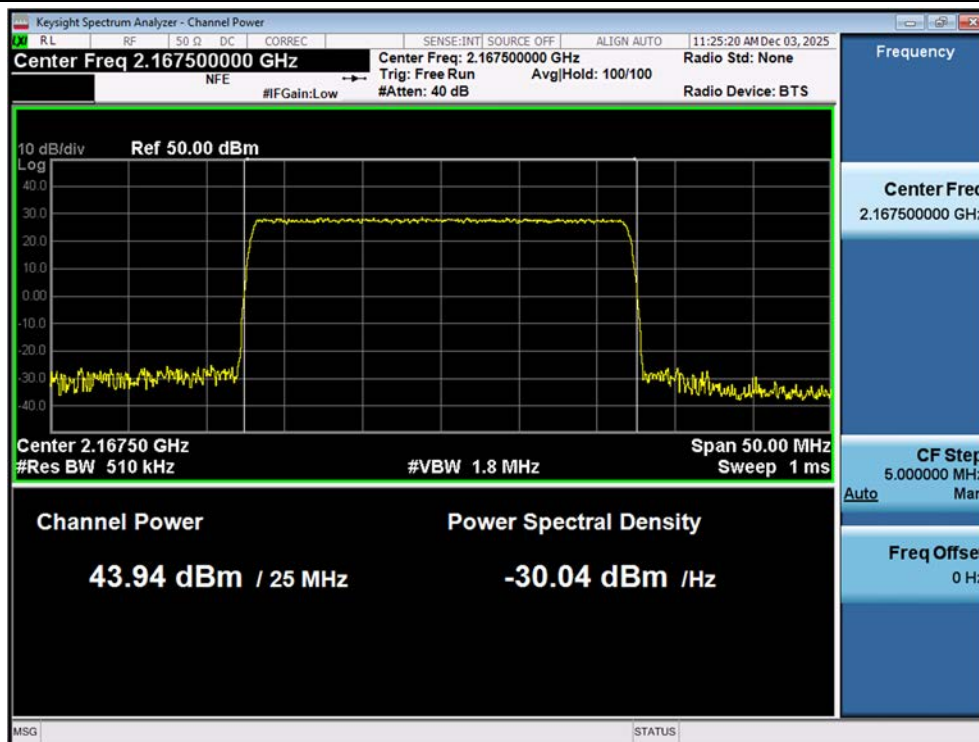
Antenna 3 / (4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier] / 16QAM / High / Non-Contiguous



Antenna 3 / (4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / QPSK / Low / Non-Contiguous



Antenna 3 / (4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / QPSK / High / Non-Contiguous



Test Results:

Tabular Data of RF PSD

(4 Port) n2 5G NR 25 MHz 1 Carrier

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Calculated (W/MHz)
0	QPSK	Low	1 942.50	29.85	0.97
		Middle	1 960.00	29.47	0.89
		High	1 977.50	29.58	0.91
	16QAM	Low	1 942.50	29.83	0.96
		Middle	1 960.00	29.71	0.93
		High	1 977.50	29.71	0.94
	64QAM	Low	1 942.50	29.91	0.98
		Middle	1 960.00	29.58	0.91
		High	1 977.50	29.80	0.95
	256QAM	Low	1 942.50	29.91	0.98
		Middle	1 960.00	29.67	0.93
		High	1 977.50	29.84	0.96
1	QPSK	Low	1 942.50	30.33	1.08
		Middle	1 960.00	29.90	0.98
		High	1 977.50	30.00	1.00
	16QAM	Low	1 942.50	30.19	1.05
		Middle	1 960.00	30.05	1.01
		High	1 977.50	29.99	1.00
	64QAM	Low	1 942.50	30.16	1.04
		Middle	1 960.00	29.96	0.99
		High	1 977.50	29.79	0.95
	256QAM	Low	1 942.50	30.37	1.09
		Middle	1 960.00	30.02	1.00
		High	1 977.50	30.14	1.03
2	QPSK	Low	1 942.50	30.05	1.01
		Middle	1 960.00	29.82	0.96
		High	1 977.50	29.72	0.94
	16QAM	Low	1 942.50	29.82	0.96
		Middle	1 960.00	29.65	0.92
		High	1 977.50	29.62	0.92
	64QAM	Low	1 942.50	29.73	0.94
		Middle	1 960.00	29.73	0.94
		High	1 977.50	29.73	0.94
	256QAM	Low	1 942.50	29.86	0.97
		Middle	1 960.00	29.68	0.93
		High	1 977.50	29.71	0.94
3	QPSK	Low	1 942.50	30.93	1.24
		Middle	1 960.00	30.63	1.16
		High	1 977.50	30.43	1.10
	16QAM	Low	1 942.50	30.86	1.22
		Middle	1 960.00	30.56	1.14
		High	1 977.50	30.50	1.12
	64QAM	Low	1 942.50	30.75	1.19
		Middle	1 960.00	30.92	1.24
		High	1 977.50	30.47	1.11
	256QAM	Low	1 942.50	31.10	1.29
		Middle	1 960.00	30.57	1.14
		High	1 977.50	30.61	1.15

Sum Data of Port 0, Port 1, Port 2 and Port 3

Frequency (MHz)	E.I.R.P				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
1 942.50	305.36	297.79	294.94	307.58	1 640
1 960.00	282.75	284.98	289.91	284.33	
1 977.50	280.72	282.43	281.64	290.37	

Frequency (MHz)	E.I.R.P				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
1 942.50	610.68	595.54	589.85	615.12	3 280
1 960.00	565.46	569.92	579.77	568.63	
1 977.50	561.41	564.83	563.25	580.69	

Note: The sum data was calculated using the maximum antenna gain values derived from the test results to ensure that the EIRP limit of the applicable specification is not exceeded.

- 1640 watts/MHz limit: 18.52 dBi
- 3280 watts/MHz limit: 21.53 dBi

(4 Port) n66 5G NR 25 MHz 1 Carrier

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Calculated (W/MHz)
0	QPSK	Low	2 122.50	32.50	1.78
		Middle	2 145.00	32.65	1.84
		High	2 167.50	32.34	1.71
	16QAM	Low	2 122.50	32.29	1.70
		Middle	2 145.00	32.66	1.84
		High	2 167.50	32.16	1.64
	64QAM	Low	2 122.50	32.66	1.84
		Middle	2 145.00	32.60	1.82
		High	2 167.50	32.04	1.60
	256QAM	Low	2 122.50	32.41	1.74
		Middle	2 145.00	32.67	1.85
		High	2 167.50	32.73	1.88
1	QPSK	Low	2 122.50	32.38	1.73
		Middle	2 145.00	32.44	1.76
		High	2 167.50	32.55	1.80
	16QAM	Low	2 122.50	32.39	1.73
		Middle	2 145.00	32.43	1.75
		High	2 167.50	32.30	1.70
	64QAM	Low	2 122.50	32.49	1.78
		Middle	2 145.00	32.73	1.88
		High	2 167.50	32.47	1.77
	256QAM	Low	2 122.50	32.63	1.83
		Middle	2 145.00	32.52	1.79
		High	2 167.50	32.14	1.64
2	QPSK	Low	2 122.50	32.03	1.59
		Middle	2 145.00	31.63	1.45
		High	2 167.50	31.89	1.55
	16QAM	Low	2 122.50	32.14	1.64
		Middle	2 145.00	31.59	1.44
		High	2 167.50	32.02	1.59
	64QAM	Low	2 122.50	32.23	1.67
		Middle	2 145.00	31.48	1.41
		High	2 167.50	31.70	1.48
	256QAM	Low	2 122.50	32.57	1.81
		Middle	2 145.00	31.47	1.40
		High	2 167.50	31.86	1.54
3	QPSK	Low	2 122.50	32.85	1.93
		Middle	2 145.00	32.40	1.74
		High	2 167.50	32.49	1.77
	16QAM	Low	2 122.50	32.80	1.91
		Middle	2 145.00	32.12	1.63
		High	2 167.50	32.79	1.90
	64QAM	Low	2 122.50	32.93	1.96
		Middle	2 145.00	32.33	1.71
		High	2 167.50	32.40	1.74
	256QAM	Low	2 122.50	32.97	1.98
		Middle	2 145.00	32.18	1.65
		High	2 167.50	32.20	1.66

Sum Data of Port 0, Port 1, Port 2 and Port 3

Frequency (MHz)	E.I.R.P				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2 122.50	499.78	495.85	515.89	523.75	1 640
2 145.00	483.01	474.20	484.39	475.69	
2 167.50	485.79	486.26	468.30	476.92	

Frequency (MHz)	E.I.R.P				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2 122.50	999.50	991.64	1031.72	1047.43	3 280
2 145.00	965.96	948.33	968.72	951.31	
2 167.50	971.52	972.45	936.53	953.78	

Note: The sum data was calculated using the maximum antenna gain values derived from the test results to ensure that the EIRP limit of the applicable specification is not exceeded.

- 1640 watts/MHz limit: 18.52 dBi
- 3280 watts/MHz limit: 21.53 dBi

(4 Port) n66 5G NR 30 MHz 1 Carrier

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Calculated (W/MHz)
0	QPSK	Low	2 125.00	31.35	1.36
		Middle	2 145.00	31.84	1.53
		High	2 165.00	31.10	1.29
	16QAM	Low	2 125.00	31.89	1.54
		Middle	2 145.00	31.70	1.48
		High	2 165.00	31.45	1.40
	64QAM	Low	2 125.00	31.79	1.51
		Middle	2 145.00	31.73	1.49
		High	2 165.00	31.49	1.41
	256QAM	Low	2 125.00	31.89	1.55
		Middle	2 145.00	31.75	1.50
		High	2 165.00	30.91	1.23
1	QPSK	Low	2 125.00	31.47	1.40
		Middle	2 145.00	31.94	1.56
		High	2 165.00	31.41	1.38
	16QAM	Low	2 125.00	31.68	1.47
		Middle	2 145.00	31.97	1.58
		High	2 165.00	31.37	1.37
	64QAM	Low	2 125.00	31.67	1.47
		Middle	2 145.00	32.04	1.60
		High	2 165.00	31.20	1.32
	256QAM	Low	2 125.00	31.76	1.50
		Middle	2 145.00	31.98	1.58
		High	2 165.00	31.24	1.33
2	QPSK	Low	2 125.00	31.34	1.36
		Middle	2 145.00	30.56	1.14
		High	2 165.00	30.70	1.17
	16QAM	Low	2 125.00	31.34	1.36
		Middle	2 145.00	30.91	1.23
		High	2 165.00	31.23	1.33
	64QAM	Low	2 125.00	31.51	1.42
		Middle	2 145.00	30.92	1.24
		High	2 165.00	30.96	1.25
	256QAM	Low	2 125.00	31.61	1.45
		Middle	2 145.00	30.99	1.26
		High	2 165.00	31.16	1.31
3	QPSK	Low	2 125.00	32.09	1.62
		Middle	2 145.00	31.72	1.49
		High	2 165.00	31.84	1.53
	16QAM	Low	2 125.00	32.17	1.65
		Middle	2 145.00	31.60	1.45
		High	2 165.00	31.73	1.49
	64QAM	Low	2 125.00	32.23	1.67
		Middle	2 145.00	31.48	1.41
		High	2 165.00	32.10	1.62
	256QAM	Low	2 125.00	32.47	1.77
		Middle	2 145.00	31.41	1.38
		High	2 165.00	31.71	1.48

Sum Data of Port 0, Port 1, Port 2 and Port 3

Frequency (MHz)	E.I.R.P				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2 125.00	408.65	428.64	431.54	445.13	1 640
2 145.00	406.46	407.99	407.69	406.45	
2 165.00	382.16	397.18	397.84	380.68	

Frequency (MHz)	E.I.R.P				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2 125.00	817.25	857.23	863.03	890.21	3 280
2 145.00	812.85	815.92	815.32	812.84	
2 165.00	764.26	794.30	795.63	761.31	

Note: The sum data was calculated using the maximum antenna gain values derived from the test results to ensure that the EIRP limit of the applicable specification is not exceeded.

- 1640 watts/MHz limit: 18.52 dBi
- 3280 watts/MHz limit: 21.53 dBi

Tabular Data of RF Contiguous PSD

(4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Calculated (W/MHz)
0	QPSK	Low	2 125.00	31.58	1.44
		Middle	2 145.00	31.87	1.54
		High	2 165.00	31.38	1.37
	16QAM	Low	2 125.00	31.20	1.32
		Middle	2 145.00	32.36	1.72
		High	2 165.00	32.44	1.75
	64QAM	Low	2 125.00	31.52	1.42
		Middle	2 145.00	31.86	1.53
		High	2 165.00	31.19	1.31
	256QAM	Low	2 125.00	31.44	1.39
		Middle	2 145.00	31.96	1.57
		High	2 165.00	31.57	1.44
1	QPSK	Low	2 125.00	31.50	1.41
		Middle	2 145.00	31.53	1.42
		High	2 165.00	31.92	1.55
	16QAM	Low	2 125.00	31.99	1.58
		Middle	2 145.00	31.76	1.50
		High	2 165.00	31.93	1.56
	64QAM	Low	2 125.00	31.75	1.50
		Middle	2 145.00	32.26	1.68
		High	2 165.00	32.27	1.68
	256QAM	Low	2 125.00	31.53	1.42
		Middle	2 145.00	31.91	1.55
		High	2 165.00	31.88	1.54
2	QPSK	Low	2 125.00	31.37	1.37
		Middle	2 145.00	31.15	1.30
		High	2 165.00	30.96	1.25
	16QAM	Low	2 125.00	31.62	1.45
		Middle	2 145.00	31.44	1.39
		High	2 165.00	31.36	1.37
	64QAM	Low	2 125.00	30.81	1.20
		Middle	2 145.00	31.43	1.39
		High	2 165.00	31.21	1.32
	256QAM	Low	2 125.00	31.59	1.44
		Middle	2 145.00	31.14	1.30
		High	2 165.00	31.29	1.35
3	QPSK	Low	2 125.00	31.85	1.53
		Middle	2 145.00	32.18	1.65
		High	2 165.00	31.94	1.56
	16QAM	Low	2 125.00	32.05	1.60
		Middle	2 145.00	32.21	1.67
		High	2 165.00	32.53	1.79
	64QAM	Low	2 125.00	31.87	1.54
		Middle	2 145.00	32.21	1.66
		High	2 165.00	32.09	1.62
	256QAM	Low	2 125.00	32.01	1.59
		Middle	2 145.00	32.05	1.60
		High	2 165.00	32.14	1.64

Sum Data of Port 0, Port 1, Port 2 and Port 3

Frequency (MHz)	E.I.R.P				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2 125.00	409.06	423.70	402.28	415.81	1 640
2 145.00	420.63	446.81	445.86	428.75	
2 165.00	408.33	460.09	422.28	424.08	

Frequency (MHz)	E.I.R.P				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2 125.00	818.07	847.34	804.50	831.56	3 280
2 145.00	841.19	893.55	891.67	857.45	
2 165.00	816.59	920.11	844.51	848.09	

Note: The sum data was calculated using the maximum antenna gain values derived from the test results to ensure that the EIRP limit of the applicable specification is not exceeded.

- 1640 watts/MHz limit: 18.52 dBi
- 3280 watts/MHz limit: 21.53 dBi

(4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Calculated (W/MHz)
0	QPSK	Low	2 127.50	30.73	1.18
		Middle	2 145.00	31.28	1.34
		High	2 162.50	31.05	1.27
	16QAM	Low	2 127.50	31.00	1.26
		Middle	2 145.00	30.64	1.16
		High	2 162.50	31.52	1.42
	64QAM	Low	2 127.50	30.83	1.21
		Middle	2 145.00	31.04	1.27
		High	2 162.50	30.77	1.19
	256QAM	Low	2 127.50	30.84	1.21
		Middle	2 145.00	30.61	1.15
		High	2 162.50	30.66	1.16
1	QPSK	Low	2 127.50	30.84	1.21
		Middle	2 145.00	30.86	1.22
		High	2 162.50	31.10	1.29
	16QAM	Low	2 127.50	30.93	1.24
		Middle	2 145.00	31.37	1.37
		High	2 162.50	30.75	1.19
	64QAM	Low	2 127.50	31.16	1.31
		Middle	2 145.00	31.11	1.29
		High	2 162.50	30.77	1.19
	256QAM	Low	2 127.50	30.73	1.18
		Middle	2 145.00	31.17	1.31
		High	2 162.50	30.80	1.20
2	QPSK	Low	2 127.50	31.06	1.28
		Middle	2 145.00	30.03	1.01
		High	2 162.50	30.21	1.05
	16QAM	Low	2 127.50	31.16	1.31
		Middle	2 145.00	30.77	1.19
		High	2 162.50	30.61	1.15
	64QAM	Low	2 127.50	30.78	1.20
		Middle	2 145.00	29.89	0.97
		High	2 162.50	30.46	1.11
	256QAM	Low	2 127.50	30.47	1.11
		Middle	2 145.00	30.04	1.01
		High	2 162.50	30.34	1.08
3	QPSK	Low	2 127.50	31.25	1.33
		Middle	2 145.00	31.30	1.35
		High	2 162.50	31.21	1.32
	16QAM	Low	2 127.50	31.44	1.39
		Middle	2 145.00	31.67	1.47
		High	2 162.50	31.63	1.46
	64QAM	Low	2 127.50	31.31	1.35
		Middle	2 145.00	31.22	1.32
		High	2 162.50	31.44	1.39
	256QAM	Low	2 127.50	31.62	1.45
		Middle	2 145.00	31.26	1.34
		High	2 162.50	30.97	1.25

Sum Data of Port 0, Port 1, Port 2 and Port 3

Frequency (MHz)	E.I.R.P				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2 127.50	356.20	369.57	360.46	352.79	1 640
2 145.00	349.71	369.67	345.71	341.71	
2 162.50	350.72	370.57	347.98	334.07	

Frequency (MHz)	E.I.R.P				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2 127.50	712.36	739.09	720.88	705.53	3 280
2 145.00	699.37	739.30	691.38	683.37	
2 162.50	701.39	741.09	695.91	668.10	

Note: The sum data was calculated using the maximum antenna gain values derived from the test results to ensure that the EIRP limit of the applicable specification is not exceeded.

- 1640 watts/MHz limit: 18.52 dBi
- 3280 watts/MHz limit: 21.53 dBi

(4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Calculated (W/MHz)
0	QPSK	Low	2 125.00	31.24	1.33
		Middle	2 145.00	31.63	1.45
		High	2 165.00	31.70	1.48
	16QAM	Low	2 125.00	31.36	1.37
		Middle	2 145.00	31.85	1.53
		High	2 165.00	31.92	1.56
	64QAM	Low	2 125.00	31.50	1.41
		Middle	2 145.00	31.66	1.46
		High	2 165.00	31.91	1.55
	256QAM	Low	2 125.00	31.43	1.39
		Middle	2 145.00	31.77	1.50
		High	2 165.00	31.46	1.40
1	QPSK	Low	2 125.00	31.57	1.44
		Middle	2 145.00	31.95	1.57
		High	2 165.00	31.42	1.39
	16QAM	Low	2 125.00	31.37	1.37
		Middle	2 145.00	31.19	1.31
		High	2 165.00	31.59	1.44
	64QAM	Low	2 125.00	31.61	1.45
		Middle	2 145.00	31.87	1.54
		High	2 165.00	31.61	1.45
	256QAM	Low	2 125.00	31.77	1.50
		Middle	2 145.00	31.90	1.55
		High	2 165.00	31.76	1.50
2	QPSK	Low	2 125.00	31.52	1.42
		Middle	2 145.00	30.97	1.25
		High	2 165.00	31.22	1.32
	16QAM	Low	2 125.00	31.33	1.36
		Middle	2 145.00	30.97	1.25
		High	2 165.00	31.31	1.35
	64QAM	Low	2 125.00	31.54	1.43
		Middle	2 145.00	30.98	1.25
		High	2 165.00	30.89	1.23
	256QAM	Low	2 125.00	31.42	1.39
		Middle	2 145.00	31.16	1.31
		High	2 165.00	31.33	1.36
3	QPSK	Low	2 125.00	31.94	1.56
		Middle	2 145.00	31.98	1.58
		High	2 165.00	31.98	1.58
	16QAM	Low	2 125.00	31.91	1.55
		Middle	2 145.00	32.13	1.63
		High	2 165.00	32.24	1.67
	64QAM	Low	2 125.00	32.06	1.61
		Middle	2 145.00	31.83	1.52
		High	2 165.00	32.10	1.62
	256QAM	Low	2 125.00	31.88	1.54
		Middle	2 145.00	32.31	1.70
		High	2 165.00	32.09	1.62

Sum Data of Port 0, Port 1, Port 2 and Port 3

Frequency (MHz)	E.I.R.P				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2 125.00	408.79	401.85	419.15	414.14	1 640
2 145.00	415.95	407.39	411.04	430.71	
2 165.00	410.14	428.56	416.08	417.89	

Frequency (MHz)	E.I.R.P				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2 125.00	817.52	803.64	838.25	828.22	3 280
2 145.00	831.84	814.72	822.02	861.36	
2 165.00	820.23	857.06	832.11	835.72	

Note: The sum data was calculated using the maximum antenna gain values derived from the test results to ensure that the EIRP limit of the applicable specification is not exceeded.

- 1640 watts/MHz limit: 18.52 dBi
- 3280 watts/MHz limit: 21.53 dBi

(4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Calculated (W/MHz)
0	QPSK	Low	2 127.50	30.56	1.14
		Middle	2 145.00	30.73	1.18
		High	2 162.50	30.92	1.23
	16QAM	Low	2 127.50	30.46	1.11
		Middle	2 145.00	31.35	1.37
		High	2 162.50	30.86	1.22
	64QAM	Low	2 127.50	30.71	1.18
		Middle	2 145.00	31.61	1.45
		High	2 162.50	30.72	1.18
	256QAM	Low	2 127.50	30.59	1.14
		Middle	2 145.00	30.77	1.19
		High	2 162.50	30.69	1.17
1	QPSK	Low	2 127.50	30.80	1.20
		Middle	2 145.00	30.74	1.19
		High	2 162.50	30.81	1.21
	16QAM	Low	2 127.50	31.13	1.30
		Middle	2 145.00	31.14	1.30
		High	2 162.50	30.89	1.23
	64QAM	Low	2 127.50	30.95	1.25
		Middle	2 145.00	30.87	1.22
		High	2 162.50	30.72	1.18
	256QAM	Low	2 127.50	30.90	1.23
		Middle	2 145.00	31.25	1.33
		High	2 162.50	31.04	1.27
2	QPSK	Low	2 127.50	30.65	1.16
		Middle	2 145.00	30.39	1.09
		High	2 162.50	30.49	1.12
	16QAM	Low	2 127.50	30.48	1.12
		Middle	2 145.00	30.60	1.15
		High	2 162.50	30.57	1.14
	64QAM	Low	2 127.50	30.55	1.14
		Middle	2 145.00	30.31	1.07
		High	2 162.50	29.95	0.99
	256QAM	Low	2 127.50	30.69	1.17
		Middle	2 145.00	30.28	1.07
		High	2 162.50	30.18	1.04
3	QPSK	Low	2 127.50	31.06	1.28
		Middle	2 145.00	31.23	1.33
		High	2 162.50	31.18	1.31
	16QAM	Low	2 127.50	31.24	1.33
		Middle	2 145.00	31.16	1.31
		High	2 162.50	31.38	1.37
	64QAM	Low	2 127.50	31.08	1.28
		Middle	2 145.00	31.15	1.30
		High	2 162.50	31.25	1.33
	256QAM	Low	2 127.50	31.25	1.33
		Middle	2 145.00	31.20	1.32
		High	2 162.50	31.34	1.36

Sum Data of Port 0, Port 1, Port 2 and Port 3

Frequency (MHz)	E.I.R.P				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2 127.50	339.91	345.37	344.31	346.97	1 640
2 145.00	340.75	364.35	358.89	349.36	
2 162.50	346.58	352.65	333.12	344.61	

Frequency (MHz)	E.I.R.P				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2 127.50	679.78	690.68	688.58	693.89	3 280
2 145.00	681.46	728.65	717.72	698.67	
2 162.50	693.10	705.25	666.19	689.17	

Note: The sum data was calculated using the maximum antenna gain values derived from the test results to ensure that the EIRP limit of the applicable specification is not exceeded.

- 1640 watts/MHz limit: 18.52 dBi
- 3280 watts/MHz limit: 21.53 dBi

(4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Calculated (W/MHz)
0	QPSK	Low	2 127.50	30.58	1.14
		Middle	2 145.00	31.08	1.28
		High	2 162.50	30.68	1.17
	16QAM	Low	2 127.50	30.66	1.16
		Middle	2 145.00	31.09	1.29
		High	2 162.50	31.16	1.31
	64QAM	Low	2 127.50	30.74	1.19
		Middle	2 145.00	30.87	1.22
		High	2 162.50	31.23	1.33
	256QAM	Low	2 127.50	30.71	1.18
		Middle	2 145.00	30.89	1.23
		High	2 162.50	30.72	1.18
1	QPSK	Low	2 127.50	30.48	1.12
		Middle	2 145.00	30.42	1.10
		High	2 162.50	30.79	1.20
	16QAM	Low	2 127.50	30.38	1.09
		Middle	2 145.00	30.66	1.16
		High	2 162.50	31.13	1.30
	64QAM	Low	2 127.50	30.64	1.16
		Middle	2 145.00	30.94	1.24
		High	2 162.50	30.78	1.20
	256QAM	Low	2 127.50	30.58	1.14
		Middle	2 145.00	30.64	1.16
		High	2 162.50	30.84	1.21
2	QPSK	Low	2 127.50	30.49	1.12
		Middle	2 145.00	30.45	1.11
		High	2 162.50	30.39	1.09
	16QAM	Low	2 127.50	30.48	1.12
		Middle	2 145.00	30.48	1.12
		High	2 162.50	30.75	1.19
	64QAM	Low	2 127.50	30.85	1.22
		Middle	2 145.00	30.46	1.11
		High	2 162.50	30.77	1.19
	256QAM	Low	2 127.50	30.66	1.16
		Middle	2 145.00	30.48	1.12
		High	2 162.50	30.83	1.21
3	QPSK	Low	2 127.50	30.59	1.15
		Middle	2 145.00	31.29	1.35
		High	2 162.50	31.06	1.28
	16QAM	Low	2 127.50	31.11	1.29
		Middle	2 145.00	31.71	1.48
		High	2 162.50	31.84	1.53
	64QAM	Low	2 127.50	31.25	1.33
		Middle	2 145.00	31.42	1.39
		High	2 162.50	31.25	1.33
	256QAM	Low	2 127.50	31.50	1.41
		Middle	2 145.00	31.35	1.36
		High	2 162.50	31.62	1.45

Sum Data of Port 0, Port 1, Port 2 and Port 3

Frequency (MHz)	E.I.R.P				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2 127.50	321.92	331.65	347.98	348.33	1 640
2 145.00	344.28	359.03	352.84	346.12	
2 162.50	337.02	378.10	359.24	359.59	

Frequency (MHz)	E.I.R.P				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2 127.50	643.79	663.25	695.92	696.62	3 280
2 145.00	688.52	718.01	705.63	692.18	
2 162.50	673.99	756.15	718.42	719.14	

Note: The sum data was calculated using the maximum antenna gain values derived from the test results to ensure that the EIRP limit of the applicable specification is not exceeded.

- 1640 watts/MHz limit: 18.52 dBi
- 3280 watts/MHz limit: 21.53 dBi

Tabular Data of RF Non-Contiguous PSD

(4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Frequency (MHz)	Measured Value (dBm/MHz)	Calculated (W/MHz)
0	QPSK	2 112.50 + 2 167.50	31.94	1.56
	16QAM	2 112.50 + 2 167.50	32.10	1.62
	64QAM	2 112.50 + 2 167.50	31.97	1.57
	256QAM	2 112.50 + 2 167.50	31.79	1.51
1	QPSK	2 112.50 + 2 167.50	31.92	1.56
	16QAM	2 112.50 + 2 167.50	32.48	1.77
	64QAM	2 112.50 + 2 167.50	31.71	1.48
	256QAM	2 112.50 + 2 167.50	31.80	1.51
2	QPSK	2 112.50 + 2 167.50	31.64	1.46
	16QAM	2 112.50 + 2 167.50	31.11	1.29
	64QAM	2 112.50 + 2 167.50	31.82	1.52
	256QAM	2 112.50 + 2 167.50	31.31	1.35
3	QPSK	2 112.50 + 2 167.50	32.39	1.73
	16QAM	2 112.50 + 2 167.50	32.09	1.62
	64QAM	2 112.50 + 2 167.50	31.99	1.58
	256QAM	2 112.50 + 2 167.50	31.60	1.45

Sum Data of Port 0, Port 1, Port 2 and Port 3

Frequency (MHz)	E.I.R.P				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2 112.50 + 2 167.50	448.49	448.12	438.01	413.99	1 640

Frequency (MHz)	E.I.R.P				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2 112.50 + 2 167.50	896.93	896.18	875.96	827.91	3 280

Note: The sum data was calculated using the maximum antenna gain values derived from the test results to ensure that the EIRP limit of the applicable specification is not exceeded.

- 1640 watts/MHz limit: 18.52 dBi
- 3280 watts/MHz limit: 21.53 dBi

(4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Frequency (MHz)	Measured Value (dBm/MHz)	Calculated (W/MHz)
0	QPSK	2 112.50 + 2 165.00	30.77	1.20
	16QAM	2 112.50 + 2 165.00	31.35	1.36
	64QAM	2 112.50 + 2 165.00	31.06	1.27
	256QAM	2 112.50 + 2 165.00	31.24	1.33
1	QPSK	2 112.50 + 2 165.00	30.56	1.14
	16QAM	2 112.50 + 2 165.00	30.82	1.21
	64QAM	2 112.50 + 2 165.00	31.15	1.30
	256QAM	2 112.50 + 2 165.00	31.01	1.26
2	QPSK	2 112.50 + 2 165.00	30.78	1.20
	16QAM	2 112.50 + 2 165.00	31.07	1.28
	64QAM	2 112.50 + 2 165.00	30.63	1.16
	256QAM	2 112.50 + 2 165.00	30.16	1.04
3	QPSK	2 112.50 + 2 165.00	31.37	1.37
	16QAM	2 112.50 + 2 165.00	31.75	1.50
	64QAM	2 112.50 + 2 165.00	31.39	1.38
	256QAM	2 112.50 + 2 165.00	31.18	1.31

Sum Data of Port 0, Port 1, Port 2 and Port 3

Sam Data on Port 0, Port 1, Port 2 and Port 3					
Frequency (MHz)	E.I.R.P				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2 112.50 + 2 165.00	348.58	380.29	363.69	351.54	1 640

Frequency (MHz)	E.I.R.P				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2 112.50 + 2 165.00	697.10	760.52	727.33	703.03	3 280

Note: The sum data was calculated using the maximum antenna gain values derived from the test results to ensure that the EIRP limit of the applicable specification is not exceeded.

- 1640 watts/MHz limit: 18.52 dBi
- 3280 watts/MHz limit: 21.53 dBi

(4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Frequency (MHz)	Measured Value (dBm/MHz)	Calculated (W/MHz)
0	QPSK	2 112.50 + 2 167.50	31.66	1.46
	16QAM	2 112.50 + 2 167.50	31.54	1.43
	64QAM	2 112.50 + 2 167.50	31.65	1.46
	256QAM	2 112.50 + 2 167.50	31.67	1.47
1	QPSK	2 112.50 + 2 167.50	31.80	1.51
	16QAM	2 112.50 + 2 167.50	31.74	1.49
	64QAM	2 112.50 + 2 167.50	31.75	1.50
	256QAM	2 112.50 + 2 167.50	31.70	1.48
2	QPSK	2 112.50 + 2 167.50	31.99	1.58
	16QAM	2 112.50 + 2 167.50	31.58	1.44
	64QAM	2 112.50 + 2 167.50	31.49	1.41
	256QAM	2 112.50 + 2 167.50	31.56	1.43
3	QPSK	2 112.50 + 2 167.50	32.00	1.58
	16QAM	2 112.50 + 2 167.50	32.17	1.65
	64QAM	2 112.50 + 2 167.50	32.14	1.64
	256QAM	2 112.50 + 2 167.50	31.96	1.57

Sum Data of Port 0, Port 1, Port 2 and Port 3

Frequency (MHz)	E.I.R.P				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2 112.50 + 2 167.50	436.82	427.25	426.93	423.42	1 640

Frequency (MHz)	E.I.R.P				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2 112.50 + 2 167.50	873.58	854.44	853.79	846.79	3 280

Note: The sum data was calculated using the maximum antenna gain values derived from the test results to ensure that the EIRP limit of the applicable specification is not exceeded.

- 1640 watts/MHz limit: 18.52 dBi
- 3280 watts/MHz limit: 21.53 dBi

(4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Frequency (MHz)	Measured Value (dBm/MHz)	Calculated (W/MHz)
0	QPSK	2 112.50 + 2 165.00	30.96	1.25
	16QAM	2 112.50 + 2 165.00	31.22	1.33
	64QAM	2 112.50 + 2 165.00	30.88	1.23
	256QAM	2 112.50 + 2 165.00	31.15	1.30
1	QPSK	2 112.50 + 2 165.00	30.98	1.25
	16QAM	2 112.50 + 2 165.00	30.86	1.22
	64QAM	2 112.50 + 2 165.00	30.91	1.23
	256QAM	2 112.50 + 2 165.00	30.92	1.24
2	QPSK	2 112.50 + 2 165.00	30.70	1.17
	16QAM	2 112.50 + 2 165.00	30.98	1.25
	64QAM	2 112.50 + 2 165.00	30.85	1.22
	256QAM	2 112.50 + 2 165.00	30.98	1.25
3	QPSK	2 112.50 + 2 165.00	31.50	1.41
	16QAM	2 112.50 + 2 165.00	31.57	1.44
	64QAM	2 112.50 + 2 165.00	31.53	1.42
	256QAM	2 112.50 + 2 165.00	31.65	1.46

Sum Data of Port 0, Port 1, Port 2 and Port 3

Frequency (MHz)	E.I.R.P				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2 112.50 + 2 165.00	361.93	372.16	362.51	373.78	1 640

Frequency (MHz)	E.I.R.P				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2 112.50 + 2 165.00	723.82	744.26	724.98	747.52	3 280

Note: The sum data was calculated using the maximum antenna gain values derived from the test results to ensure that the EIRP limit of the applicable specification is not exceeded.

- 1640 watts/MHz limit: 18.52 dBi
- 3280 watts/MHz limit: 21.53 dBi

(4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Frequency (MHz)	Measured Value (dBm/MHz)	Calculated (W/MHz)
0	QPSK	2 115.00 + 2 167.50	30.60	1.15
	16QAM	2 115.00 + 2 167.50	30.76	1.19
	64QAM	2 115.00 + 2 167.50	30.50	1.12
	256QAM	2 115.00 + 2 167.50	30.69	1.17
1	QPSK	2 115.00 + 2 167.50	30.74	1.18
	16QAM	2 115.00 + 2 167.50	30.76	1.19
	64QAM	2 115.00 + 2 167.50	30.69	1.17
	256QAM	2 115.00 + 2 167.50	30.63	1.15
2	QPSK	2 115.00 + 2 167.50	30.46	1.11
	16QAM	2 115.00 + 2 167.50	30.01	1.00
	64QAM	2 115.00 + 2 167.50	30.73	1.18
	256QAM	2 115.00 + 2 167.50	30.58	1.14
3	QPSK	2 115.00 + 2 167.50	31.14	1.30
	16QAM	2 115.00 + 2 167.50	31.12	1.30
	64QAM	2 115.00 + 2 167.50	30.88	1.23
	256QAM	2 115.00 + 2 167.50	31.23	1.33

Sum Data of Port 0, Port 1, Port 2 and Port 3

Frequency (MHz)	E.I.R.P				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2 115.00 + 2 167.50	337.44	332.73	334.54	341.17	1 640

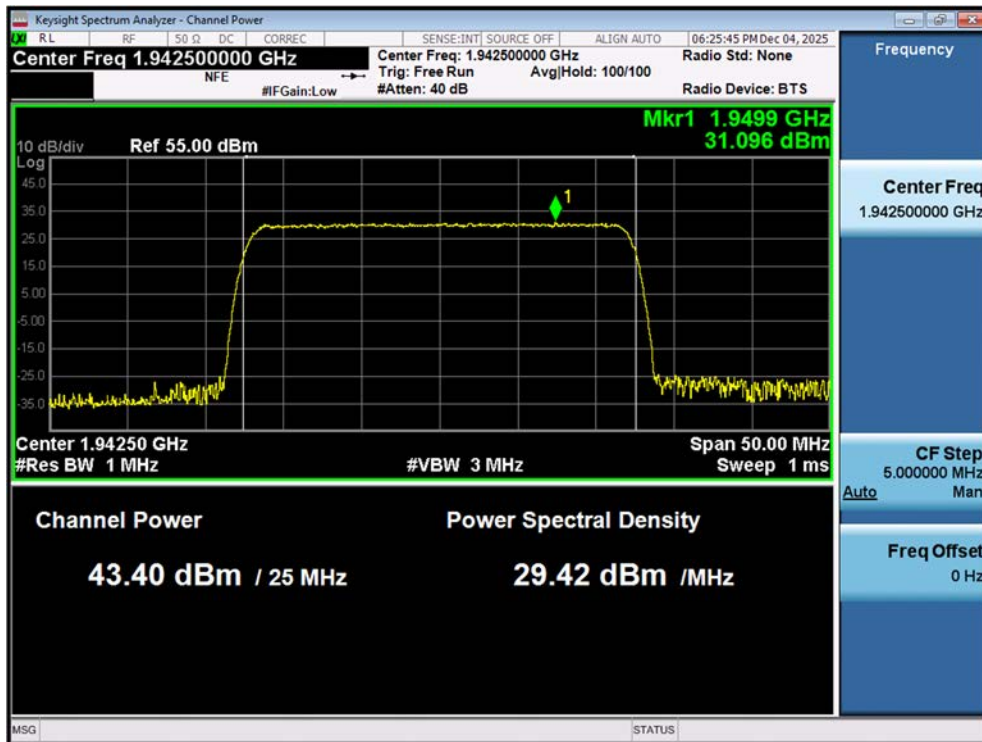
Frequency (MHz)	E.I.R.P				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
2 115.00 + 2 167.50	674.84	665.42	669.02	682.30	3 280

Note: The sum data was calculated using the maximum antenna gain values derived from the test results to ensure that the EIRP limit of the applicable specification is not exceeded.

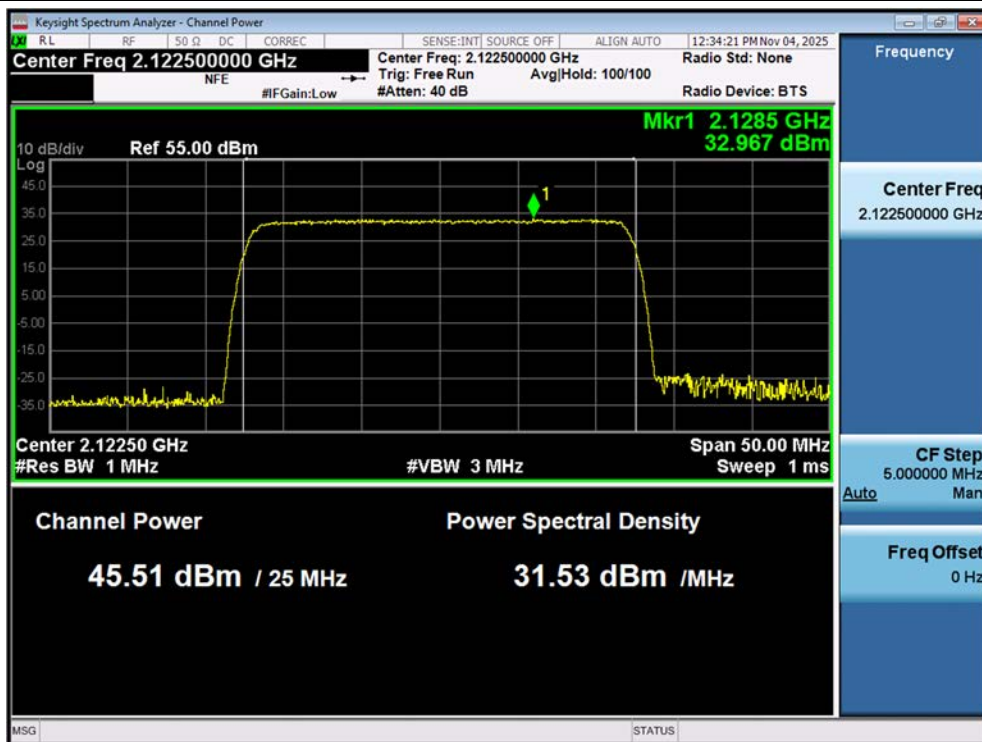
- 1640 watts/MHz limit: 18.52 dBi
- 3280 watts/MHz limit: 21.53 dBi

Plot Data of PSD

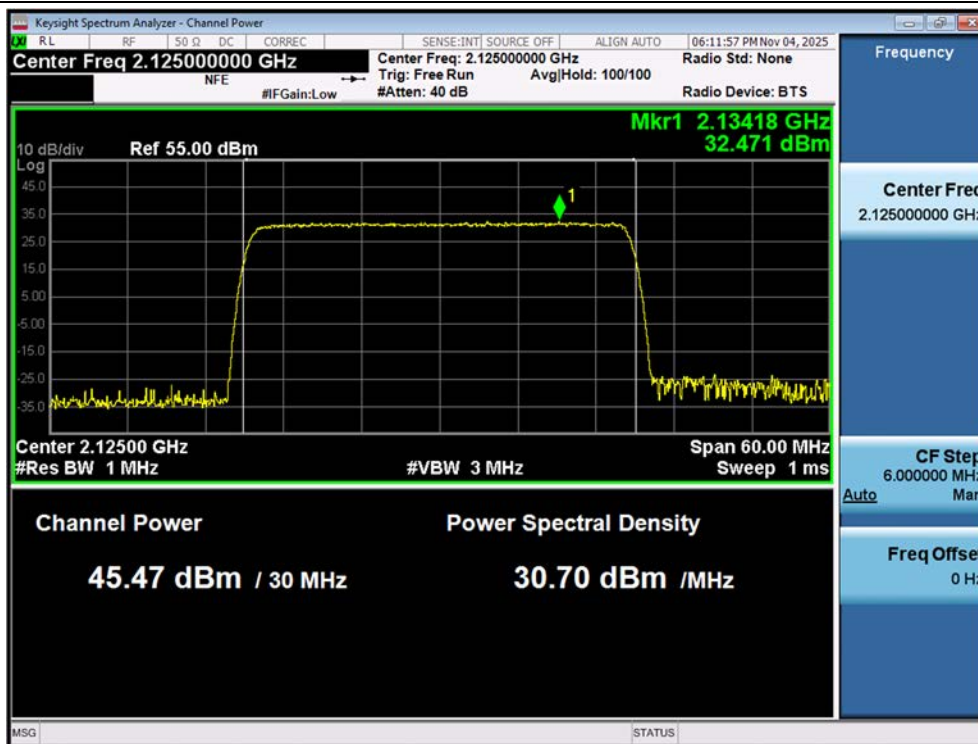
Antenna 3 / (4 Port) n2 5G NR 25 MHz 1 Carrier / 256QAM / Low



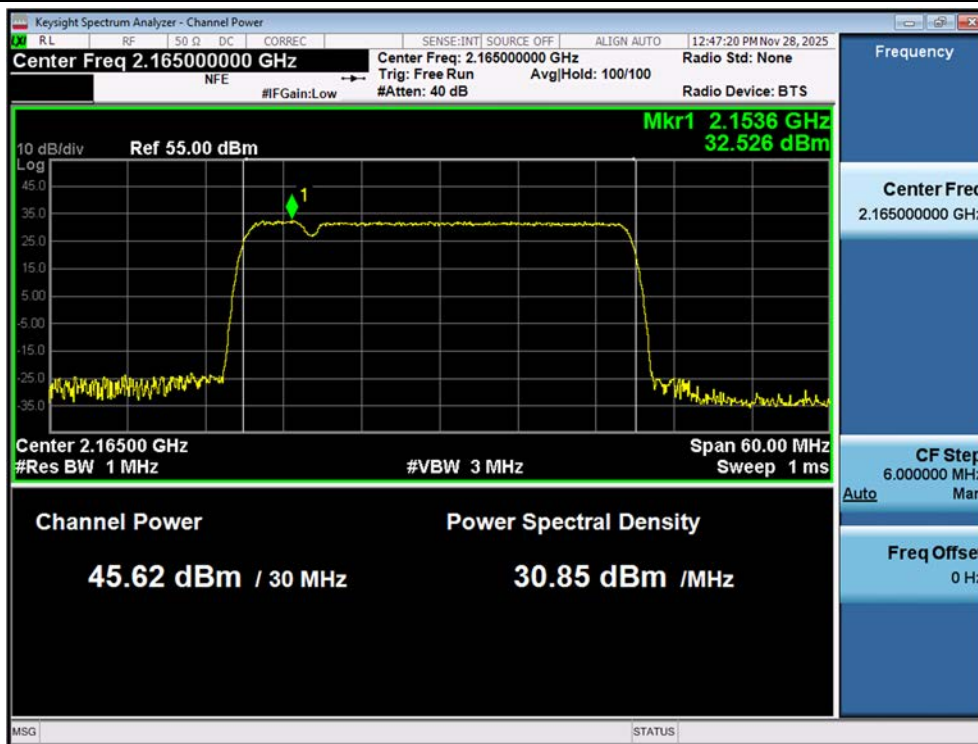
Antenna 3 / (4 Port) n66 5G NR 25 MHz 1 Carrier / 256QAM / Low



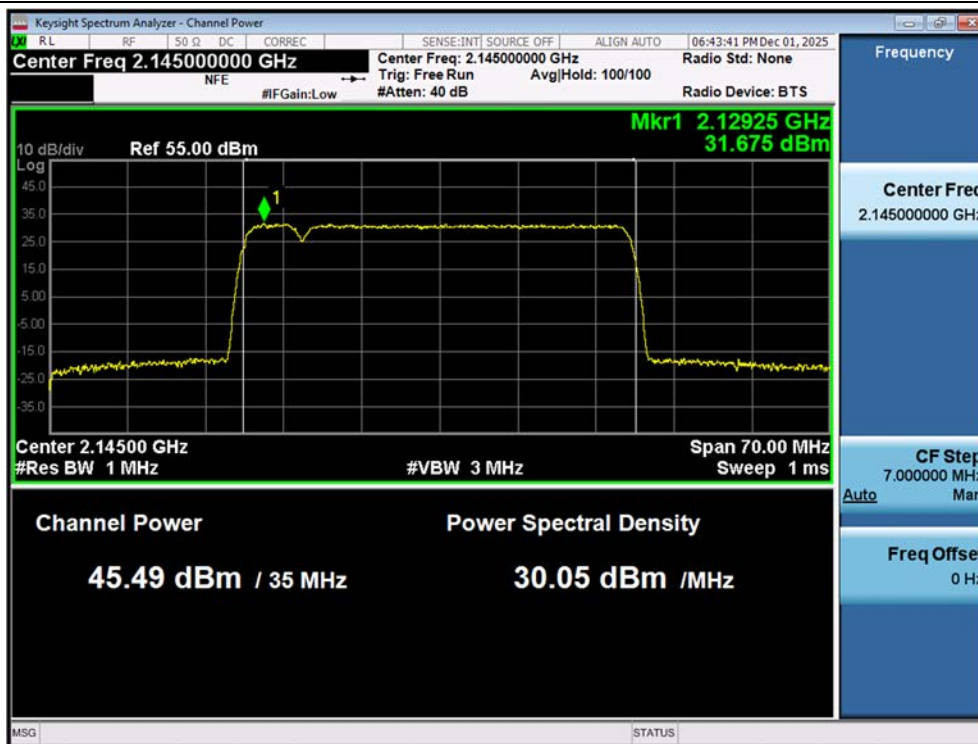
Antenna 3 / (4 Port) n66 5G NR 30 MHz 1 Carrier / 256QAM / Low



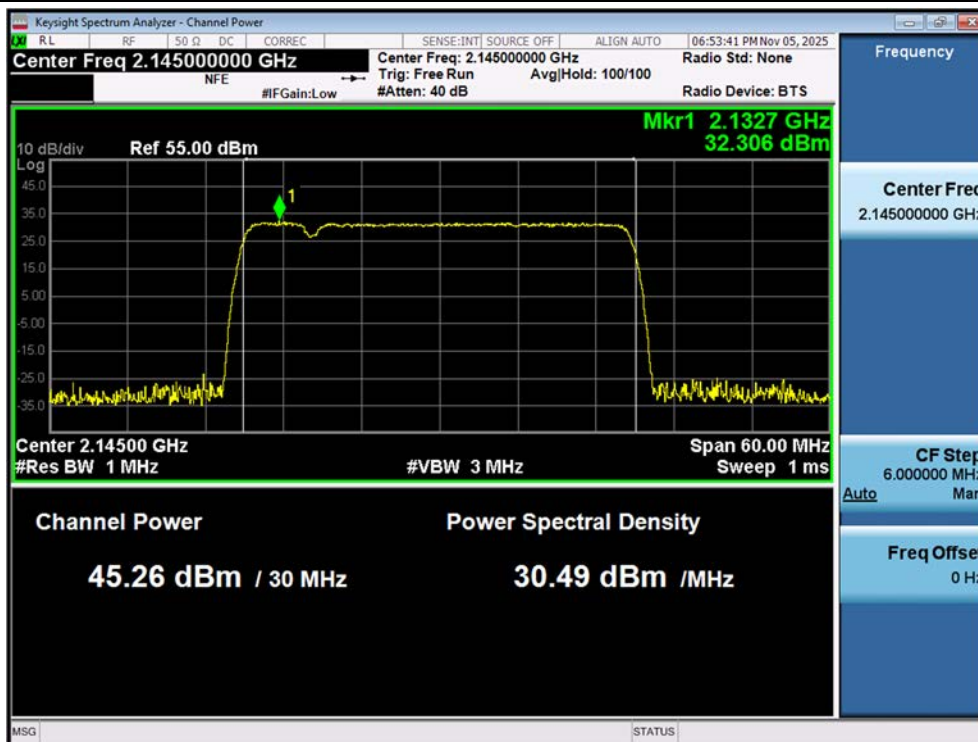
Antenna 3 / (4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / 16QAM / High / Contiguous



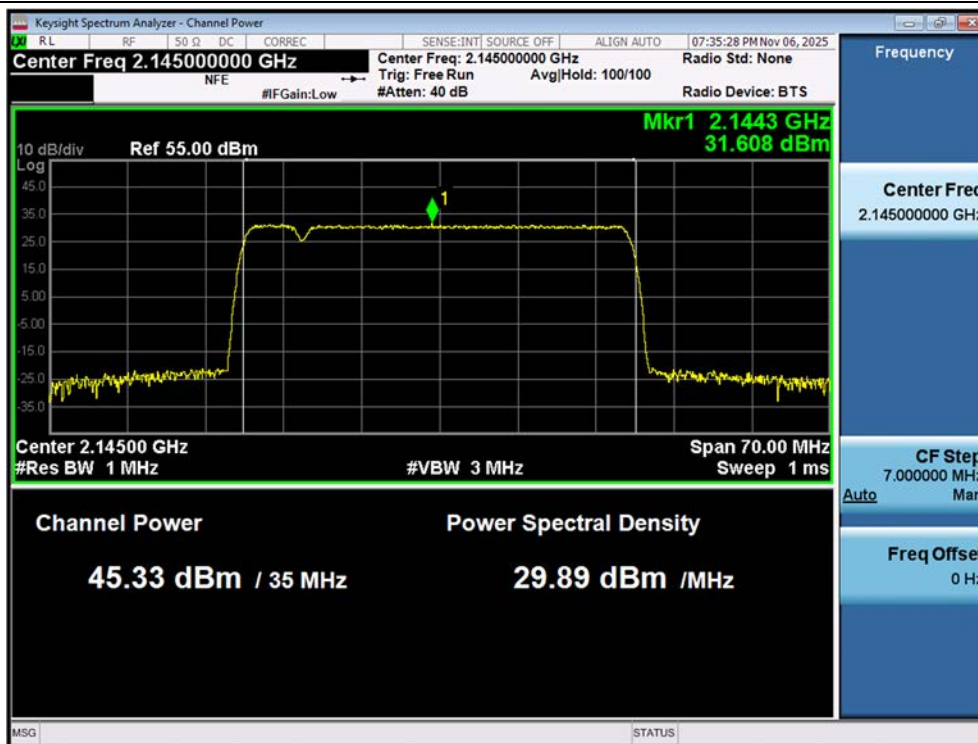
Antenna 3 / (4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier] / 16QAM / Middle / Contiguous



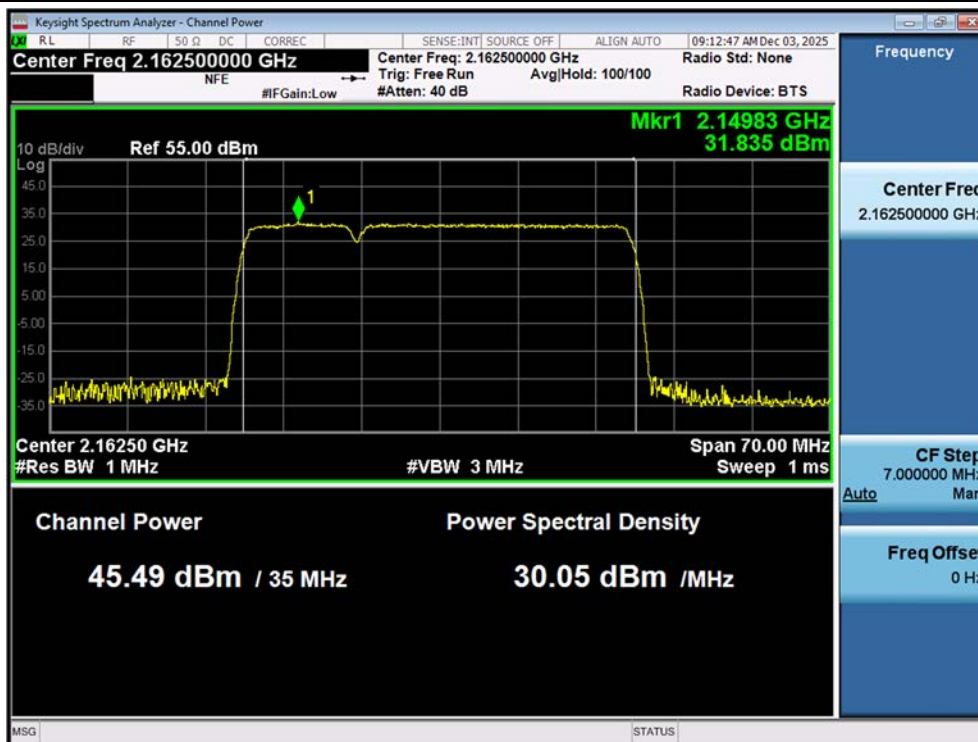
Antenna 3 / (4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / 256QAM / Middle / Contiguous



Antenna 0 / (4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier] / 64QAM / Middle / Contiguous



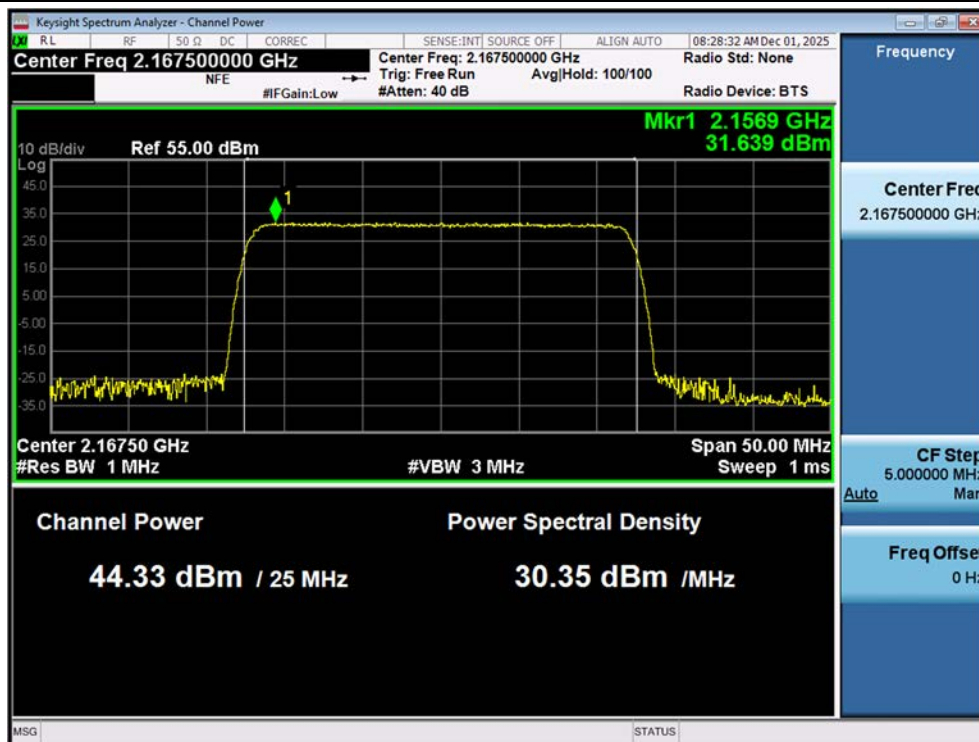
Antenna 3 / (4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / 16QAM / High / Contiguous



Antenna 1 / (4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / 16QAM / Low / Non-Contiguous



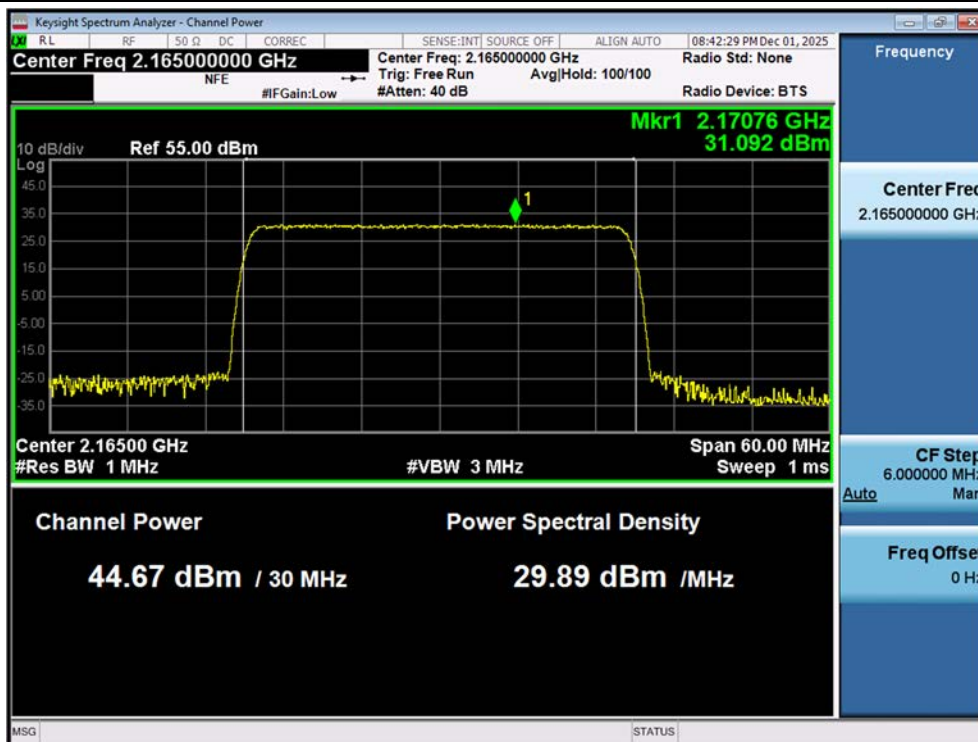
Antenna 1 / (4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / 16QAM / High / Non-Contiguous



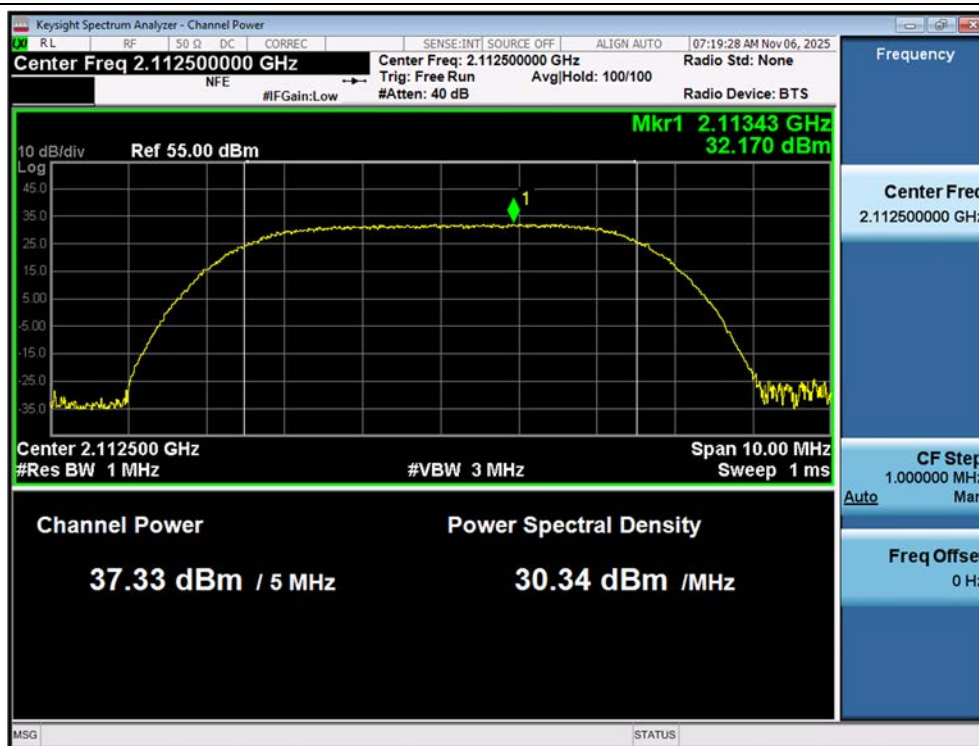
Antenna 3 / (4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier] / 16QAM / Low / Non-Contiguous



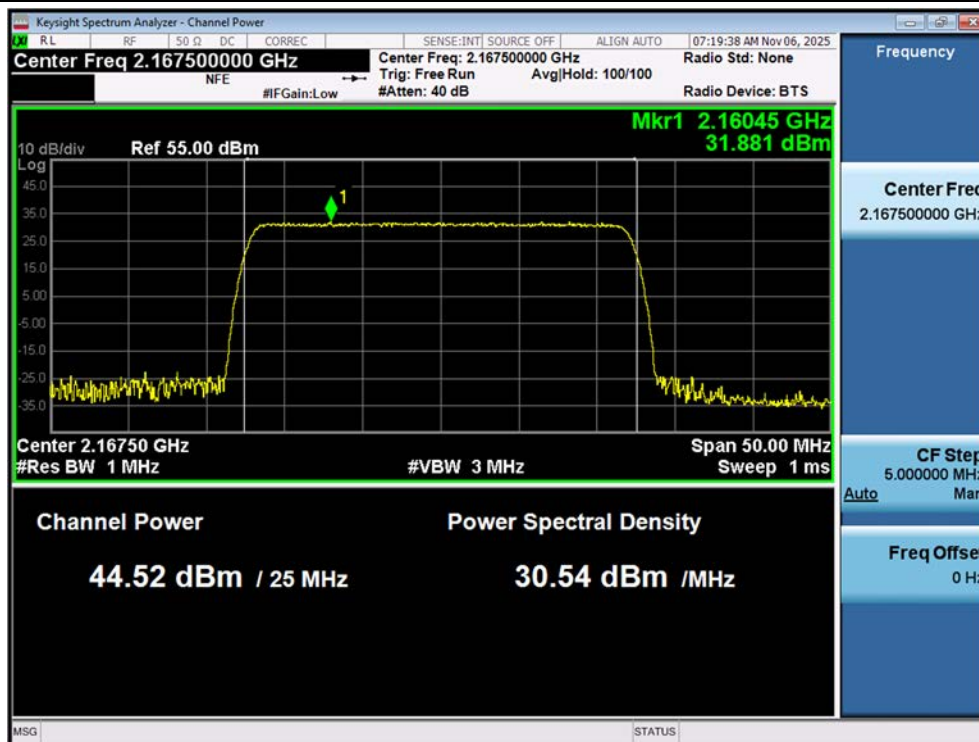
Antenna 3 / (4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier] / 16QAM / High / Non-Contiguous



Antenna 3 / (4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / 16QAM / Low / Non-Contiguous



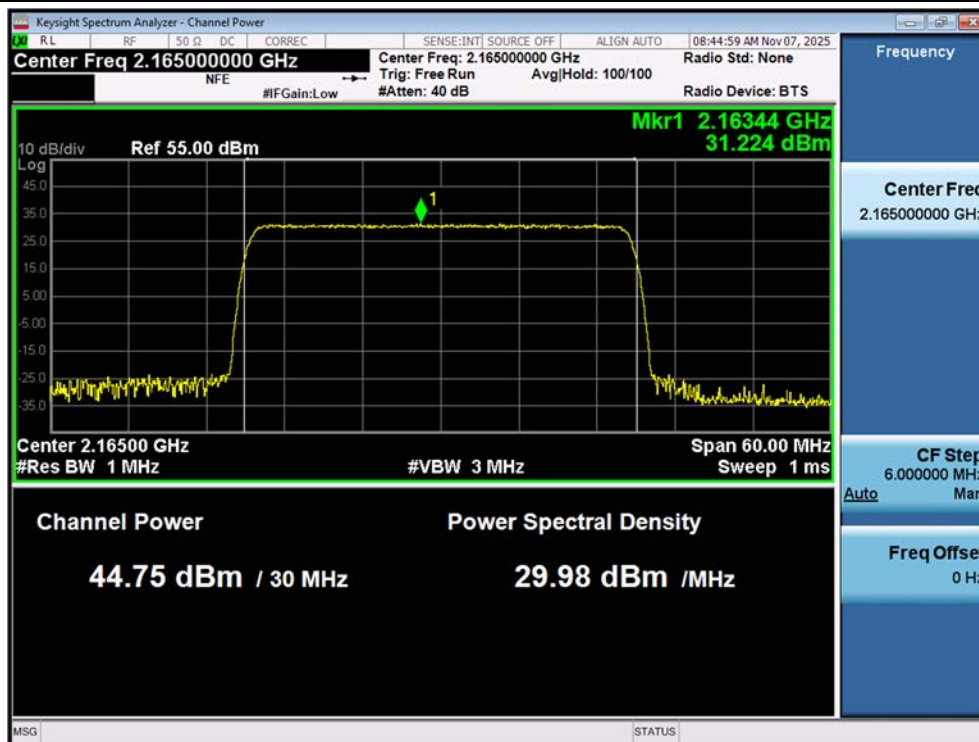
Antenna 3 / (4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / 16QAM / High / Non-Contiguous



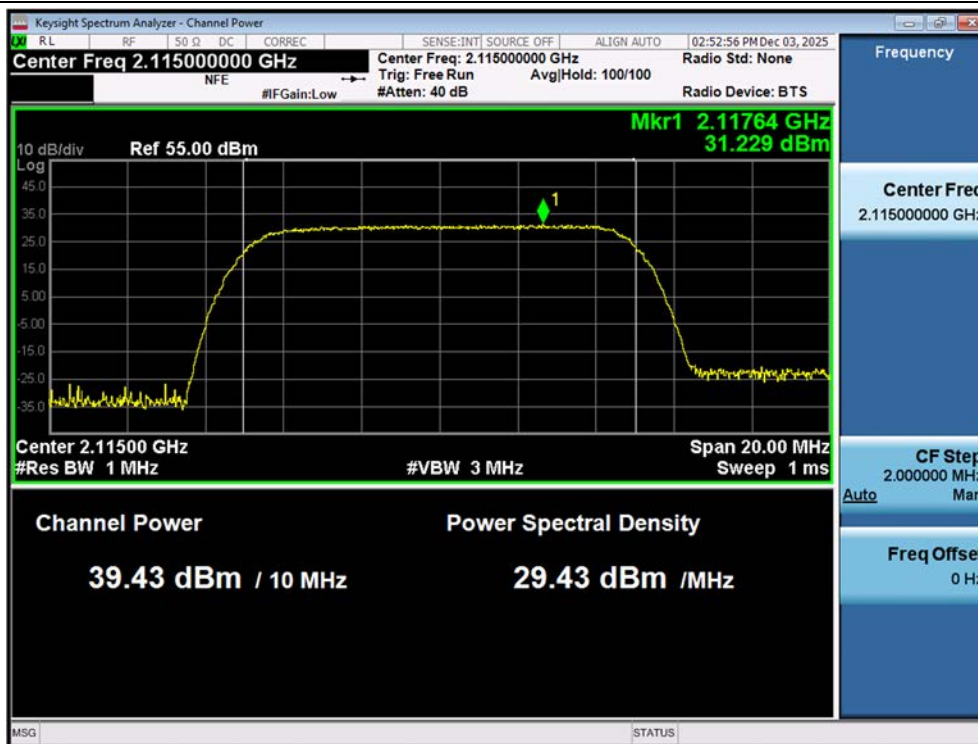
Antenna 3 / (4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier] / 256QAM / Low / Non-Contiguous



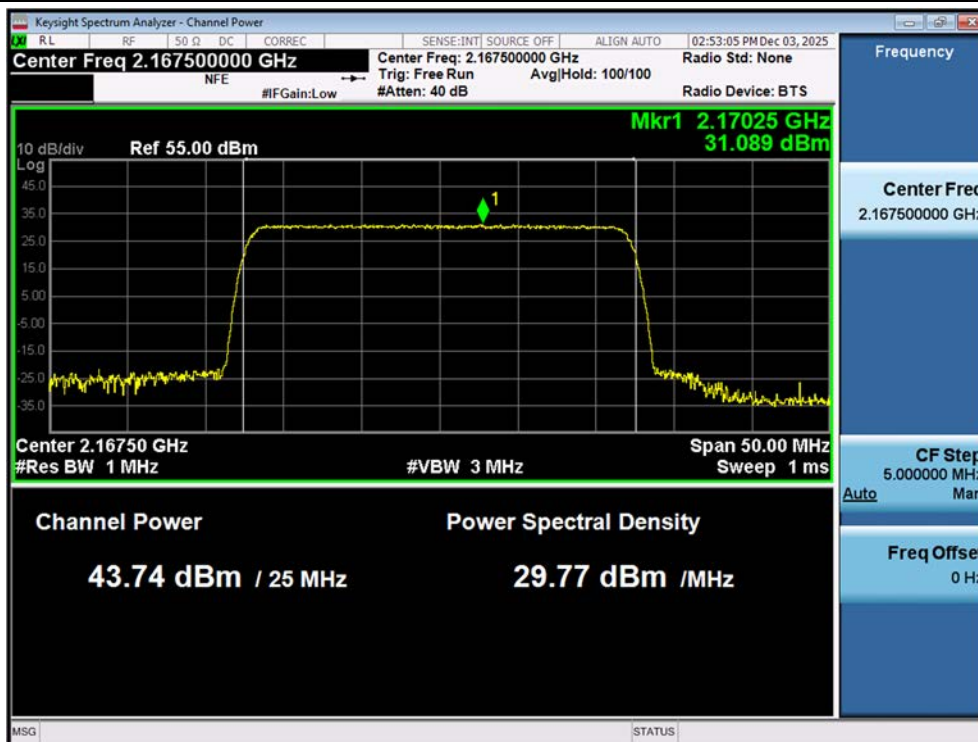
Antenna 3 / (4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier] / 256QAM / High / Non-Contiguous



Antenna 3 / (4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / 256QAM / Low / Non-Contiguous



Antenna 3 / (4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / 256QAM / High / Non-Contiguous



5.2. PAPR

Test Requirements:

§ 24.232 Power and antenna height limits.

- (d) 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 (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of § 24.51. 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.

§ 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 the PAPR test show a similar trend across all ports, so only the worst-case plot is attached.

Test Results:

Tabular Data of RF PAPR

(4 Port) n2 5G NR 25 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	1 942.50	7.87
		Middle	1 960.00	7.74
		High	1 977.50	7.74
	16QAM	Low	1 942.50	7.91
		Middle	1 960.00	7.74
		High	1 977.50	7.75
	64QAM	Low	1 942.50	7.91
		Middle	1 960.00	7.76
		High	1 977.50	7.75
	256QAM	Low	1 942.50	7.89
		Middle	1 960.00	7.76
		High	1 977.50	7.72
1	QPSK	Low	1 942.50	7.87
		Middle	1 960.00	7.74
		High	1 977.50	7.73
	16QAM	Low	1 942.50	7.87
		Middle	1 960.00	7.73
		High	1 977.50	7.74
	64QAM	Low	1 942.50	7.88
		Middle	1 960.00	7.76
		High	1 977.50	7.74
	256QAM	Low	1 942.50	7.86
		Middle	1 960.00	7.74
		High	1 977.50	7.70

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
2	QPSK	Low	1 942.50	7.85
		Middle	1 960.00	7.74
		High	1 977.50	7.74
	16QAM	Low	1 942.50	7.87
		Middle	1 960.00	7.72
		High	1 977.50	7.71
	64QAM	Low	1 942.50	7.87
		Middle	1 960.00	7.74
		High	1 977.50	7.74
	256QAM	Low	1 942.50	7.82
		Middle	1 960.00	7.74
		High	1 977.50	7.73
3	QPSK	Low	1 942.50	7.87
		Middle	1 960.00	7.75
		High	1 977.50	7.74
	16QAM	Low	1 942.50	7.89
		Middle	1 960.00	7.74
		High	1 977.50	7.71
	64QAM	Low	1 942.50	7.91
		Middle	1 960.00	7.75
		High	1 977.50	7.74
	256QAM	Low	1 942.50	7.89
		Middle	1 960.00	7.74
		High	1 977.50	7.73

(4 Port) n66 5G NR 25 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2 122.50	7.71
		Middle	2 145.00	7.67
		High	2 167.50	7.63
	16QAM	Low	2 122.50	7.83
		Middle	2 145.00	7.67
		High	2 167.50	7.71
	64QAM	Low	2 122.50	7.85
		Middle	2 145.00	7.65
		High	2 167.50	7.69
	256QAM	Low	2 122.50	7.78
		Middle	2 145.00	7.67
		High	2 167.50	7.68
1	QPSK	Low	2 122.50	7.74
		Middle	2 145.00	7.65
		High	2 167.50	7.60
	16QAM	Low	2 122.50	7.80
		Middle	2 145.00	7.62
		High	2 167.50	7.65
	64QAM	Low	2 122.50	7.81
		Middle	2 145.00	7.68
		High	2 167.50	7.72
	256QAM	Low	2 122.50	7.79
		Middle	2 145.00	7.69
		High	2 167.50	7.70

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
2	QPSK	Low	2 122.50	7.77
		Middle	2 145.00	7.67
		High	2 167.50	7.67
	16QAM	Low	2 122.50	7.78
		Middle	2 145.00	7.67
		High	2 167.50	7.69
	64QAM	Low	2 122.50	7.79
		Middle	2 145.00	7.68
		High	2 167.50	7.68
	256QAM	Low	2 122.50	7.79
		Middle	2 145.00	7.67
		High	2 167.50	7.69
3	QPSK	Low	2 122.50	7.78
		Middle	2 145.00	7.68
		High	2 167.50	7.69
	16QAM	Low	2 122.50	7.79
		Middle	2 145.00	7.67
		High	2 167.50	7.69
	64QAM	Low	2 122.50	7.79
		Middle	2 145.00	7.68
		High	2 167.50	7.71
	256QAM	Low	2 122.50	7.79
		Middle	2 145.00	7.68
		High	2 167.50	7.71

(4 Port) n66 5G NR 30 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2 125.00	7.85
		Middle	2 145.00	7.63
		High	2 165.00	7.67
	16QAM	Low	2 125.00	7.75
		Middle	2 145.00	7.63
		High	2 165.00	7.69
	64QAM	Low	2 125.00	7.80
		Middle	2 145.00	7.63
		High	2 165.00	7.61
	256QAM	Low	2 125.00	7.80
		Middle	2 145.00	7.69
		High	2 165.00	7.70
1	QPSK	Low	2 125.00	7.86
		Middle	2 145.00	7.66
		High	2 165.00	7.77
	16QAM	Low	2 125.00	7.74
		Middle	2 145.00	7.64
		High	2 165.00	7.77
	64QAM	Low	2 125.00	7.82
		Middle	2 145.00	7.65
		High	2 165.00	7.77
	256QAM	Low	2 125.00	7.82
		Middle	2 145.00	7.68
		High	2 165.00	7.70

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
2	QPSK	Low	2 125.00	7.82
		Middle	2 145.00	7.68
		High	2 165.00	7.70
	16QAM	Low	2 125.00	7.89
		Middle	2 145.00	7.68
		High	2 165.00	7.71
	64QAM	Low	2 125.00	7.79
		Middle	2 145.00	7.67
		High	2 165.00	7.66
	256QAM	Low	2 125.00	7.82
		Middle	2 145.00	7.68
		High	2 165.00	7.70
3	QPSK	Low	2 125.00	7.80
		Middle	2 145.00	7.68
		High	2 165.00	7.71
	16QAM	Low	2 125.00	7.81
		Middle	2 145.00	7.68
		High	2 165.00	7.72
	64QAM	Low	2 125.00	7.80
		Middle	2 145.00	7.67
		High	2 165.00	7.69
	256QAM	Low	2 125.00	7.81
		Middle	2 145.00	7.68
		High	2 165.00	7.71

Tabular Data of RF Contiguous PAPR

(4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2 125.00	8.01
		Middle	2 145.00	7.98
		High	2 165.00	8.01
	16QAM	Low	2 125.00	8.03
		Middle	2 145.00	7.95
		High	2 165.00	8.01
	64QAM	Low	2 125.00	8.00
		Middle	2 145.00	8.00
		High	2 165.00	8.03
	256QAM	Low	2 125.00	8.03
		Middle	2 145.00	7.99
		High	2 165.00	7.98
1	QPSK	Low	2 125.00	8.01
		Middle	2 145.00	7.95
		High	2 165.00	8.03
	16QAM	Low	2 125.00	8.04
		Middle	2 145.00	8.09
		High	2 165.00	8.01
	64QAM	Low	2 125.00	8.04
		Middle	2 145.00	8.08
		High	2 165.00	8.02
	256QAM	Low	2 125.00	8.05
		Middle	2 145.00	8.02
		High	2 165.00	7.98

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
2	QPSK	Low	2 125.00	8.03
		Middle	2 145.00	8.04
		High	2 165.00	7.94
	16QAM	Low	2 125.00	8.03
		Middle	2 145.00	7.97
		High	2 165.00	7.94
	64QAM	Low	2 125.00	7.99
		Middle	2 145.00	8.00
		High	2 165.00	7.98
	256QAM	Low	2 125.00	8.05
		Middle	2 145.00	7.99
		High	2 165.00	7.99
3	QPSK	Low	2 125.00	8.01
		Middle	2 145.00	8.02
		High	2 165.00	7.93
	16QAM	Low	2 125.00	7.99
		Middle	2 145.00	7.99
		High	2 165.00	7.97
	64QAM	Low	2 125.00	8.01
		Middle	2 145.00	8.00
		High	2 165.00	7.95
	256QAM	Low	2 125.00	8.02
		Middle	2 145.00	7.99
		High	2 165.00	7.97

(4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2 127.50	7.78
		Middle	2 145.00	7.96
		High	2 162.50	7.96
	16QAM	Low	2 127.50	8.00
		Middle	2 145.00	7.96
		High	2 162.50	7.95
	64QAM	Low	2 127.50	8.06
		Middle	2 145.00	8.00
		High	2 162.50	7.96
	256QAM	Low	2 127.50	8.04
		Middle	2 145.00	8.03
		High	2 162.50	7.99
1	QPSK	Low	2 127.50	7.83
		Middle	2 145.00	7.98
		High	2 162.50	8.00
	16QAM	Low	2 127.50	7.99
		Middle	2 145.00	8.04
		High	2 162.50	7.94
	64QAM	Low	2 127.50	8.07
		Middle	2 145.00	7.96
		High	2 162.50	8.05
	256QAM	Low	2 127.50	8.05
		Middle	2 145.00	8.04
		High	2 162.50	7.98

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
2	QPSK	Low	2 127.50	8.01
		Middle	2 145.00	8.02
		High	2 162.50	7.96
	16QAM	Low	2 127.50	8.04
		Middle	2 145.00	7.99
		High	2 162.50	7.96
	64QAM	Low	2 127.50	8.06
		Middle	2 145.00	7.99
		High	2 162.50	7.90
	256QAM	Low	2 127.50	8.06
		Middle	2 145.00	8.00
		High	2 162.50	7.98
3	QPSK	Low	2 127.50	8.07
		Middle	2 145.00	8.01
		High	2 162.50	8.03
	16QAM	Low	2 127.50	8.04
		Middle	2 145.00	8.03
		High	2 162.50	7.97
	64QAM	Low	2 127.50	8.10
		Middle	2 145.00	7.93
		High	2 162.50	7.96
	256QAM	Low	2 127.50	8.05
		Middle	2 145.00	8.00
		High	2 162.50	8.01

(4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2 125.00	8.04
		Middle	2 145.00	7.91
		High	2 165.00	7.94
	16QAM	Low	2 125.00	8.05
		Middle	2 145.00	7.91
		High	2 165.00	7.93
	64QAM	Low	2 125.00	8.05
		Middle	2 145.00	7.96
		High	2 165.00	7.93
	256QAM	Low	2 125.00	8.01
		Middle	2 145.00	7.97
		High	2 165.00	7.98
1	QPSK	Low	2 125.00	8.04
		Middle	2 145.00	7.93
		High	2 165.00	8.05
	16QAM	Low	2 125.00	8.09
		Middle	2 145.00	7.94
		High	2 165.00	8.03
	64QAM	Low	2 125.00	8.08
		Middle	2 145.00	7.92
		High	2 165.00	7.99
	256QAM	Low	2 125.00	7.99
		Middle	2 145.00	7.99
		High	2 165.00	7.99

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
2	QPSK	Low	2 125.00	8.03
		Middle	2 145.00	7.97
		High	2 165.00	7.98
	16QAM	Low	2 125.00	8.02
		Middle	2 145.00	7.94
		High	2 165.00	7.96
	64QAM	Low	2 125.00	8.04
		Middle	2 145.00	7.98
		High	2 165.00	7.94
	256QAM	Low	2 125.00	8.02
		Middle	2 145.00	7.99
		High	2 165.00	7.97
3	QPSK	Low	2 125.00	8.02
		Middle	2 145.00	7.95
		High	2 165.00	7.95
	16QAM	Low	2 125.00	8.02
		Middle	2 145.00	7.93
		High	2 165.00	7.96
	64QAM	Low	2 125.00	8.01
		Middle	2 145.00	7.94
		High	2 165.00	7.97
	256QAM	Low	2 125.00	8.02
		Middle	2 145.00	7.99
		High	2 165.00	7.98

(4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2 127.50	8.05
		Middle	2 145.00	7.97
		High	2 162.50	7.98
	16QAM	Low	2 127.50	8.06
		Middle	2 145.00	7.99
		High	2 162.50	8.01
	64QAM	Low	2 127.50	8.01
		Middle	2 145.00	7.96
		High	2 162.50	7.97
	256QAM	Low	2 127.50	8.05
		Middle	2 145.00	8.03
		High	2 162.50	7.99
1	QPSK	Low	2 127.50	8.08
		Middle	2 145.00	7.97
		High	2 162.50	8.03
	16QAM	Low	2 127.50	8.09
		Middle	2 145.00	7.93
		High	2 162.50	8.06
	64QAM	Low	2 127.50	8.04
		Middle	2 145.00	8.05
		High	2 162.50	7.98
	256QAM	Low	2 127.50	8.04
		Middle	2 145.00	8.01
		High	2 162.50	8.00

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
2	QPSK	Low	2 127.50	8.06
		Middle	2 145.00	8.00
		High	2 162.50	8.00
	16QAM	Low	2 127.50	8.04
		Middle	2 145.00	7.99
		High	2 162.50	7.99
	64QAM	Low	2 127.50	8.04
		Middle	2 145.00	7.99
		High	2 162.50	8.12
	256QAM	Low	2 127.50	8.08
		Middle	2 145.00	8.02
		High	2 162.50	7.99
3	QPSK	Low	2 127.50	8.06
		Middle	2 145.00	8.01
		High	2 162.50	7.99
	16QAM	Low	2 127.50	8.04
		Middle	2 145.00	8.00
		High	2 162.50	7.97
	64QAM	Low	2 127.50	8.04
		Middle	2 145.00	8.01
		High	2 162.50	7.97
	256QAM	Low	2 127.50	8.10
		Middle	2 145.00	8.01
		High	2 162.50	8.00

(4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	2 127.50	8.06
		Middle	2 145.00	8.10
		High	2 162.50	8.02
	16QAM	Low	2 127.50	8.07
		Middle	2 145.00	8.05
		High	2 162.50	8.02
	64QAM	Low	2 127.50	8.17
		Middle	2 145.00	8.04
		High	2 162.50	8.00
	256QAM	Low	2 127.50	8.06
		Middle	2 145.00	8.05
		High	2 162.50	8.04
1	QPSK	Low	2 127.50	8.13
		Middle	2 145.00	8.08
		High	2 162.50	8.10
	16QAM	Low	2 127.50	8.12
		Middle	2 145.00	8.06
		High	2 162.50	8.07
	64QAM	Low	2 127.50	8.16
		Middle	2 145.00	8.04
		High	2 162.50	8.11
	256QAM	Low	2 127.50	8.05
		Middle	2 145.00	8.05
		High	2 162.50	8.02

Antenna	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
2	QPSK	Low	2 127.50	8.06
		Middle	2 145.00	8.03
		High	2 162.50	7.98
	16QAM	Low	2 127.50	8.08
		Middle	2 145.00	8.04
		High	2 162.50	8.00
	64QAM	Low	2 127.50	8.06
		Middle	2 145.00	8.05
		High	2 162.50	7.99
	256QAM	Low	2 127.50	8.09
		Middle	2 145.00	8.04
		High	2 162.50	7.99
3	QPSK	Low	2 127.50	8.06
		Middle	2 145.00	8.03
		High	2 162.50	7.99
	16QAM	Low	2 127.50	8.04
		Middle	2 145.00	8.04
		High	2 162.50	7.98
	64QAM	Low	2 127.50	8.11
		Middle	2 145.00	8.05
		High	2 162.50	8.04
	256QAM	Low	2 127.50	8.10
		Middle	2 145.00	8.05
		High	2 162.50	8.03

Tabular Data of RF Non-Contiguous PAPR

(4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier]

Ant.	Mod.	B66 LTE 5 MHz 1 Carrier		n66 5G NR 25 MHz 1 Carrier	
		Frequency (MHz)	0.1 % PAPR (dB)	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	2 112.50	8.26	2 167.50	7.93
	16QAM	2 112.50	8.31	2 167.50	8.05
	64QAM	2 112.50	8.24	2 167.50	7.93
	256QAM	2 112.50	8.35	2 167.50	7.95
1	QPSK	2 112.50	8.28	2 167.50	7.91
	16QAM	2 112.50	8.31	2 167.50	8.02
	64QAM	2 112.50	8.24	2 167.50	7.86
	256QAM	2 112.50	8.35	2 167.50	7.95
2	QPSK	2 112.50	8.29	2 167.50	8.03
	16QAM	2 112.50	8.32	2 167.50	7.98
	64QAM	2 112.50	8.23	2 167.50	7.93
	256QAM	2 112.50	8.35	2 167.50	7.95
3	QPSK	2 112.50	8.27	2 167.50	7.97
	16QAM	2 112.50	8.29	2 167.50	7.92
	64QAM	2 112.50	8.23	2 167.50	7.92
	256QAM	2 112.50	8.35	2 167.50	7.94

(4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier]

Ant.	Mod.	B66 LTE 5 MHz 1 Carrier		n66 5G NR 30 MHz 1 Carrier	
		Frequency (MHz)	0.1 % PAPR (dB)	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	2 112.50	8.31	2 165.00	8.00
	16QAM	2 112.50	8.34	2 165.00	8.02
	64QAM	2 112.50	8.24	2 165.00	7.91
	256QAM	2 112.50	8.35	2 165.00	7.94
1	QPSK	2 112.50	8.29	2 165.00	7.98
	16QAM	2 112.50	8.34	2 165.00	7.97
	64QAM	2 112.50	8.26	2 165.00	7.94
	256QAM	2 112.50	8.35	2 165.00	7.94
2	QPSK	2 112.50	8.30	2 165.00	7.95
	16QAM	2 112.50	8.35	2 165.00	8.04
	64QAM	2 112.50	8.25	2 165.00	7.98
	256QAM	2 112.50	8.35	2 165.00	7.96
3	QPSK	2 112.50	8.31	2 165.00	7.97
	16QAM	2 112.50	8.35	2 165.00	7.97
	64QAM	2 112.50	8.24	2 165.00	7.96
	256QAM	2 112.50	8.36	2 165.00	7.95

(4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier]

Ant.	Mod.	n66 5G NR 5 MHz 1 Carrier		n66 5G NR 25 MHz 1 Carrier	
		Frequency (MHz)	0.1 % PAPR (dB)	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	2 112.50	8.36	2 167.50	7.94
	16QAM	2 112.50	8.26	2 167.50	7.95
	64QAM	2 112.50	8.35	2 167.50	7.93
	256QAM	2 112.50	8.20	2 167.50	7.94
1	QPSK	2 112.50	8.36	2 167.50	7.95
	16QAM	2 112.50	8.25	2 167.50	7.93
	64QAM	2 112.50	8.34	2 167.50	7.95
	256QAM	2 112.50	8.21	2 167.50	7.94
2	QPSK	2 112.50	8.34	2 167.50	7.89
	16QAM	2 112.50	8.24	2 167.50	7.94
	64QAM	2 112.50	8.34	2 167.50	7.88
	256QAM	2 112.50	8.21	2 167.50	7.95
3	QPSK	2 112.50	8.35	2 167.50	7.89
	16QAM	2 112.50	8.26	2 167.50	7.94
	64QAM	2 112.50	8.33	2 167.50	7.90
	256QAM	2 112.50	8.21	2 167.50	7.92

(4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier]

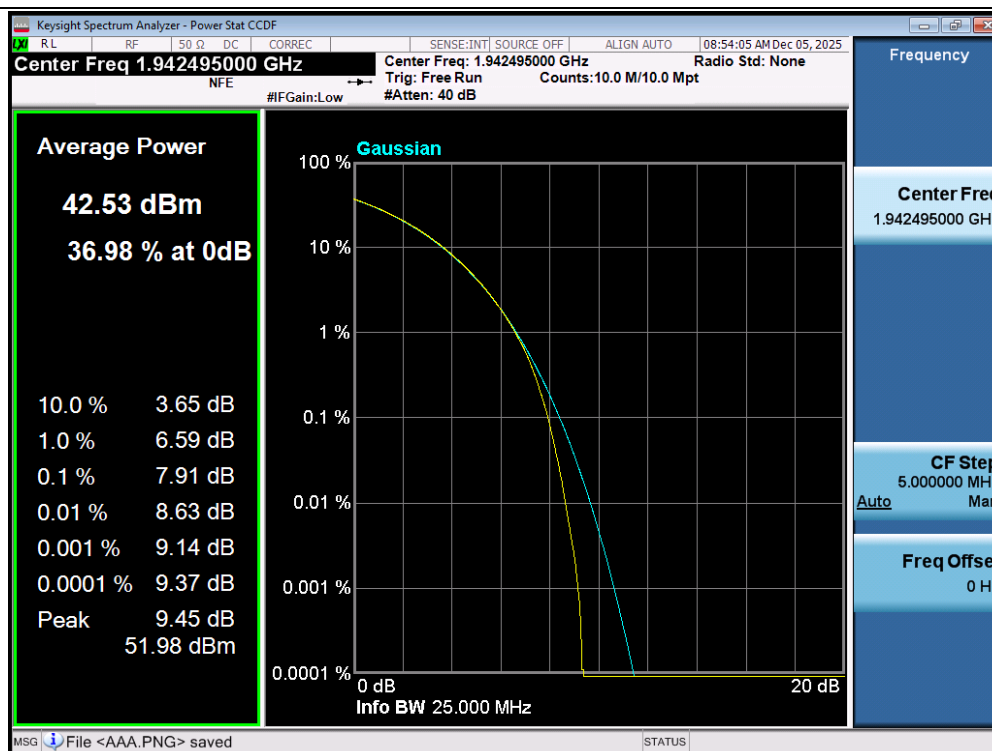
Ant.	Mod.	n66 5G NR 5 MHz 1 Carrier		n66 5G NR 30 MHz 1 Carrier	
		Frequency (MHz)	0.1 % PAPR (dB)	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	2 112.50	8.37	2 165.00	7.95
	16QAM	2 112.50	8.28	2 165.00	7.98
	64QAM	2 112.50	8.36	2 165.00	7.95
	256QAM	2 112.50	8.23	2 165.00	7.94
1	QPSK	2 112.50	8.37	2 165.00	7.96
	16QAM	2 112.50	8.28	2 165.00	7.99
	64QAM	2 112.50	8.35	2 165.00	7.97
	256QAM	2 112.50	8.25	2 165.00	7.95
2	QPSK	2 112.50	8.38	2 165.00	7.93
	16QAM	2 112.50	8.28	2 165.00	7.97
	64QAM	2 112.50	8.34	2 165.00	7.93
	256QAM	2 112.50	8.24	2 165.00	7.95
3	QPSK	2 112.50	8.39	2 165.00	7.95
	16QAM	2 112.50	8.29	2 165.00	7.96
	64QAM	2 112.50	8.36	2 165.00	7.95
	256QAM	2 112.50	8.24	2 165.00	7.93

(4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier]

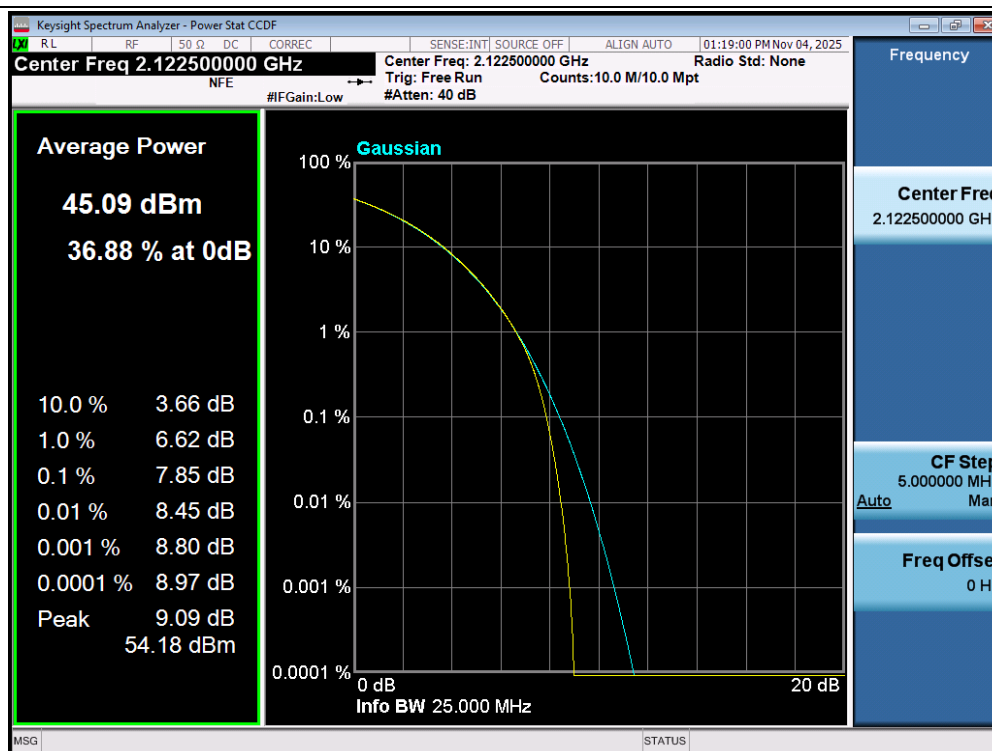
Ant.	Mod.	B66 DSS 10 MHz 1 Carrier		n66 5G NR 25 MHz 1 Carrier	
		Frequency (MHz)	0.1 % PAPR (dB)	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	2 115.00	8.37	2 167.50	8.10
	16QAM	2 115.00	8.35	2 167.50	8.15
	64QAM	2 115.00	8.36	2 167.50	8.15
	256QAM	2 115.00	8.35	2 167.50	8.05
1	QPSK	2 115.00	8.34	2 167.50	8.16
	16QAM	2 115.00	8.32	2 167.50	8.14
	64QAM	2 115.00	8.32	2 167.50	8.14
	256QAM	2 115.00	8.35	2 167.50	8.07
2	QPSK	2 115.00	8.35	2 167.50	8.10
	16QAM	2 115.00	8.33	2 167.50	8.10
	64QAM	2 115.00	8.37	2 167.50	8.09
	256QAM	2 115.00	8.37	2 167.50	8.12
3	QPSK	2 115.00	8.34	2 167.50	8.10
	16QAM	2 115.00	8.35	2 167.50	8.11
	64QAM	2 115.00	8.38	2 167.50	8.13
	256QAM	2 115.00	8.35	2 167.50	8.07

Plot Data of RF PAPR

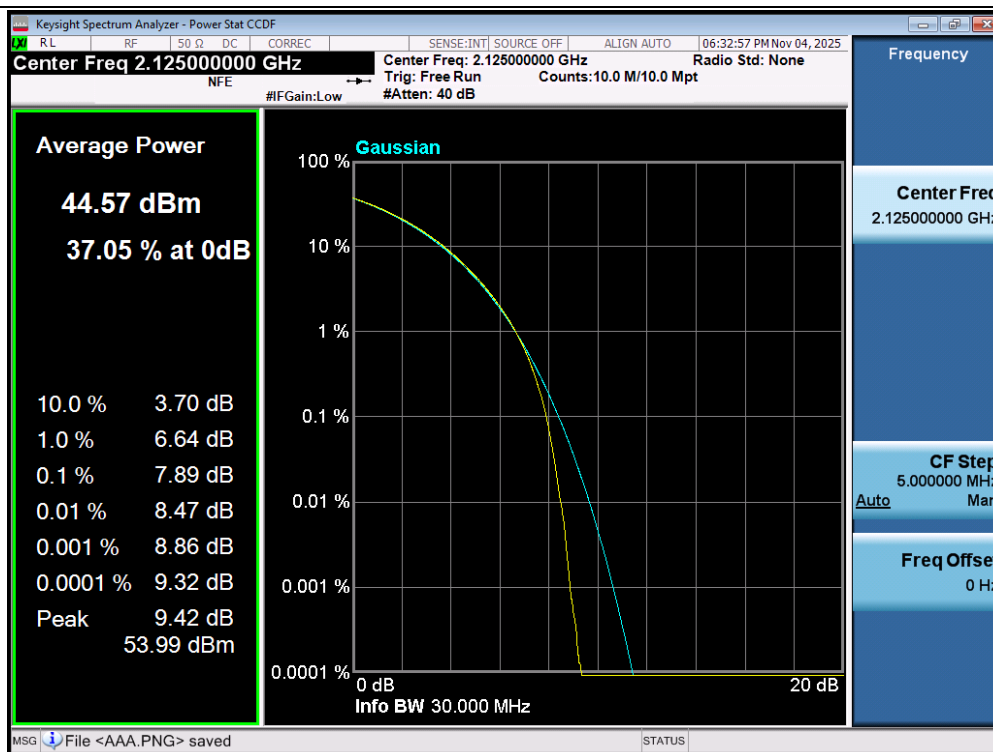
Antenna 0 / (4 Port) n2 5G NR 25 MHz 1 Carrier / 64QAM / Low



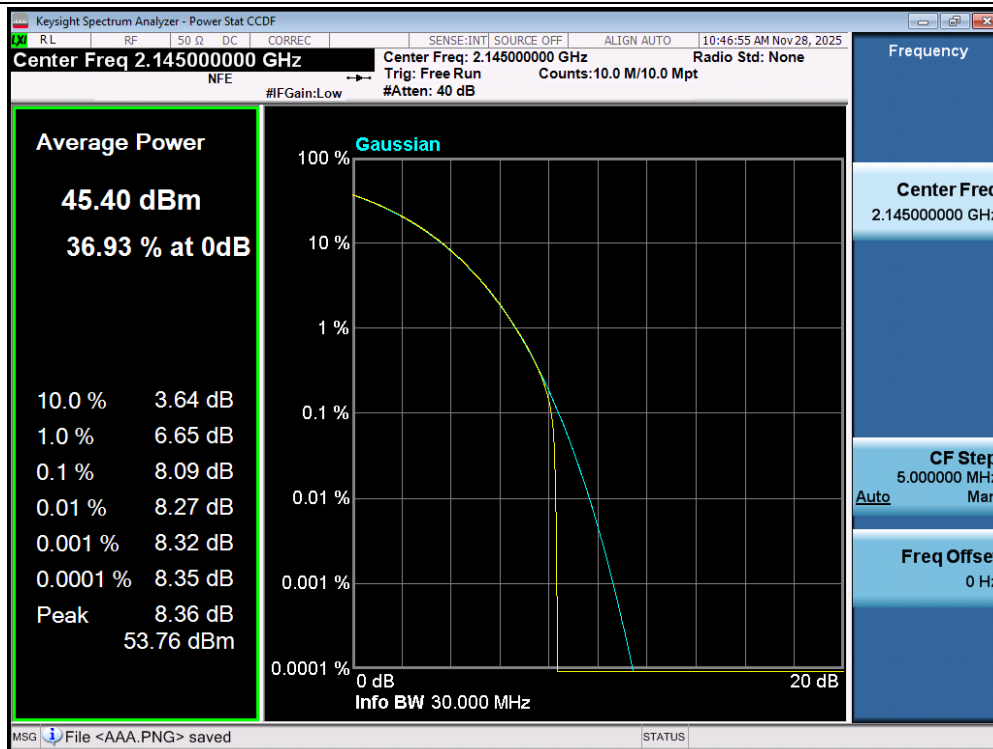
Antenna 0 / (4 Port) n66 5G NR 25 MHz 1 Carrier / 64QAM / Low



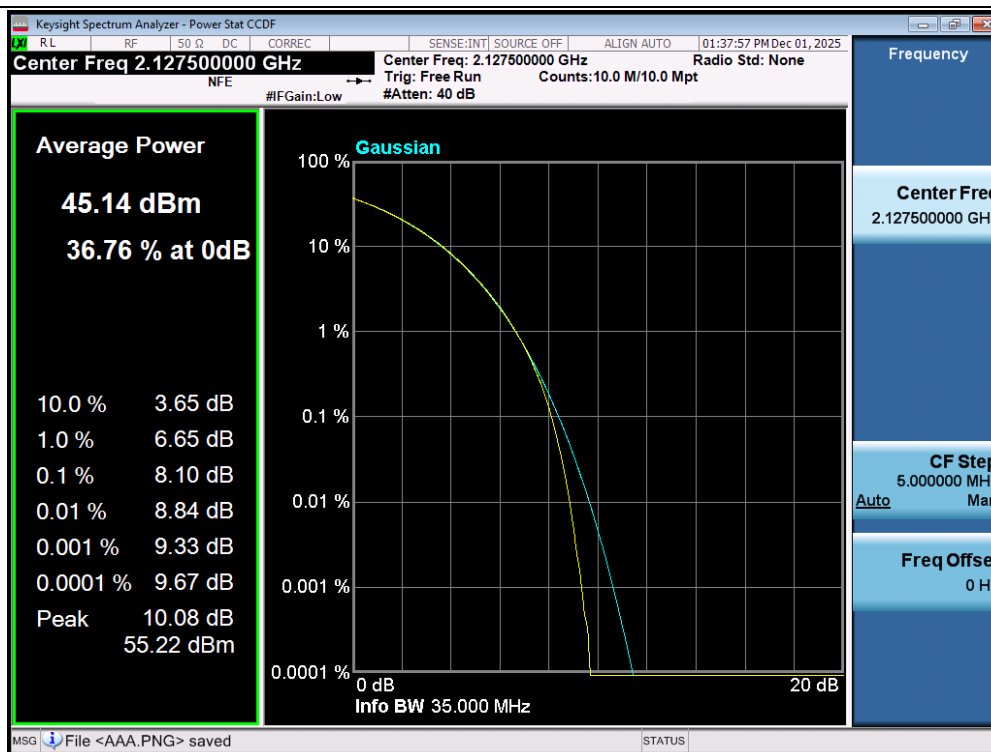
Antenna 2 / (4 Port) n66 5G NR 30 MHz 1 Carrier / 16QAM / Low



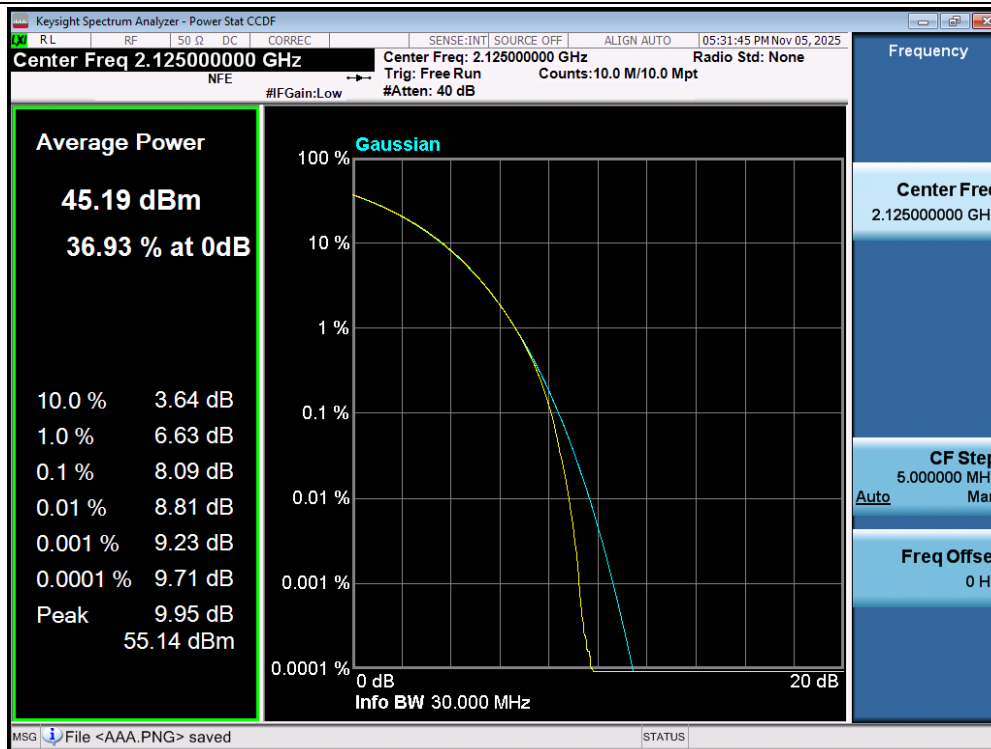
Antenna 1 / (4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / 16QAM / Middle / Contiguous



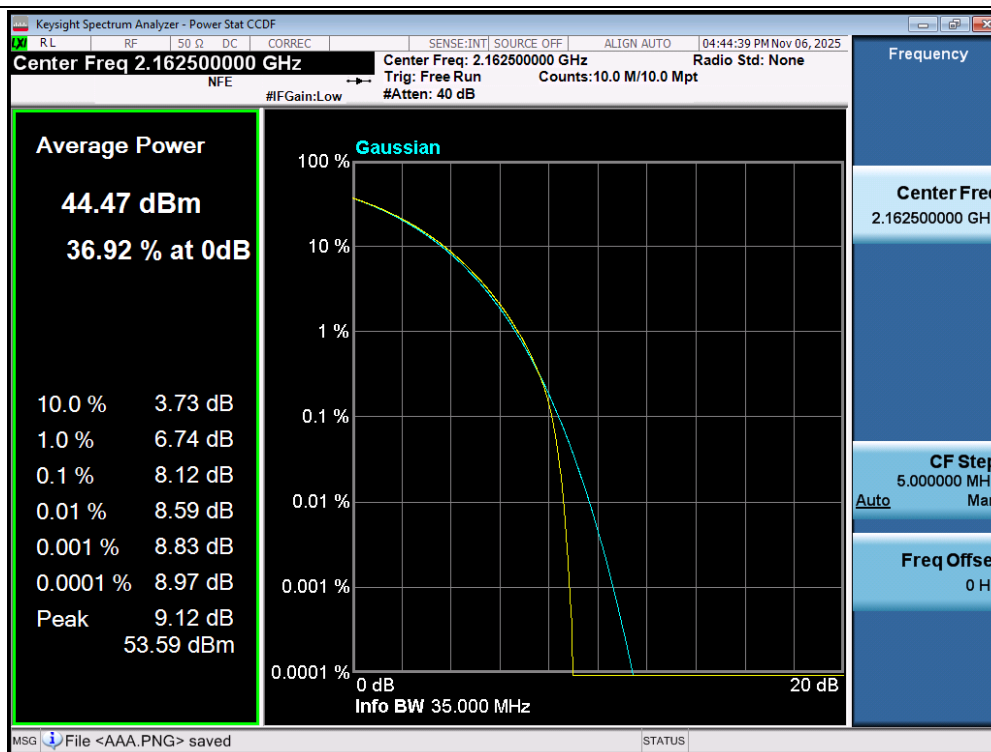
Antenna 3 / (4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier] / 64QAM / Low / Contiguous



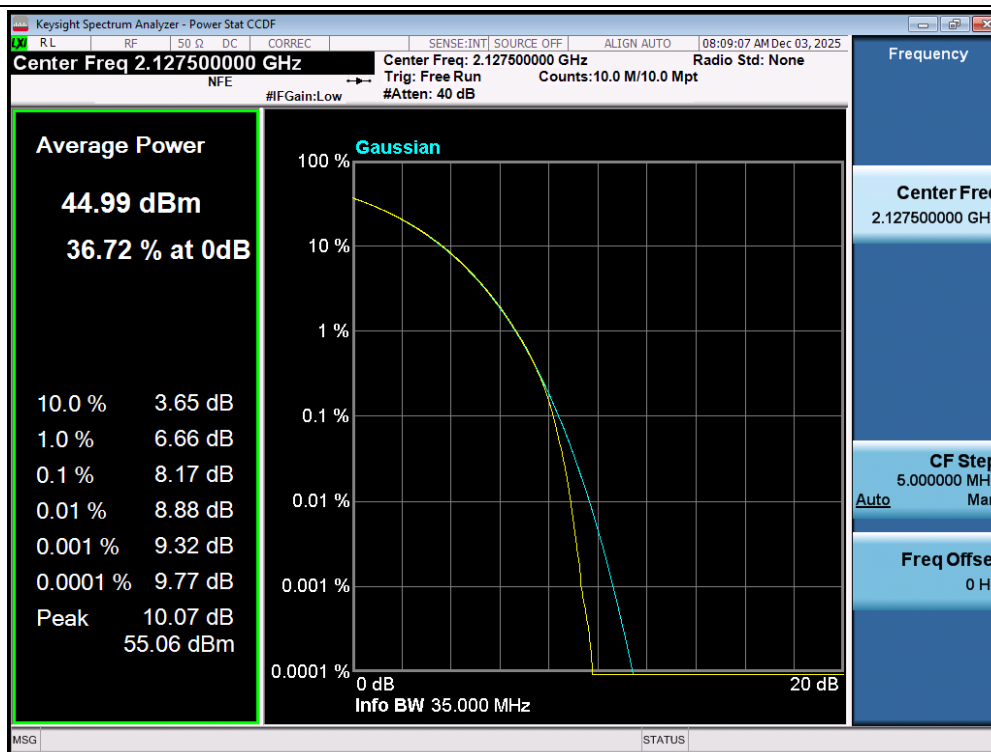
Antenna 1 / (4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / 16QAM / Low / Contiguous



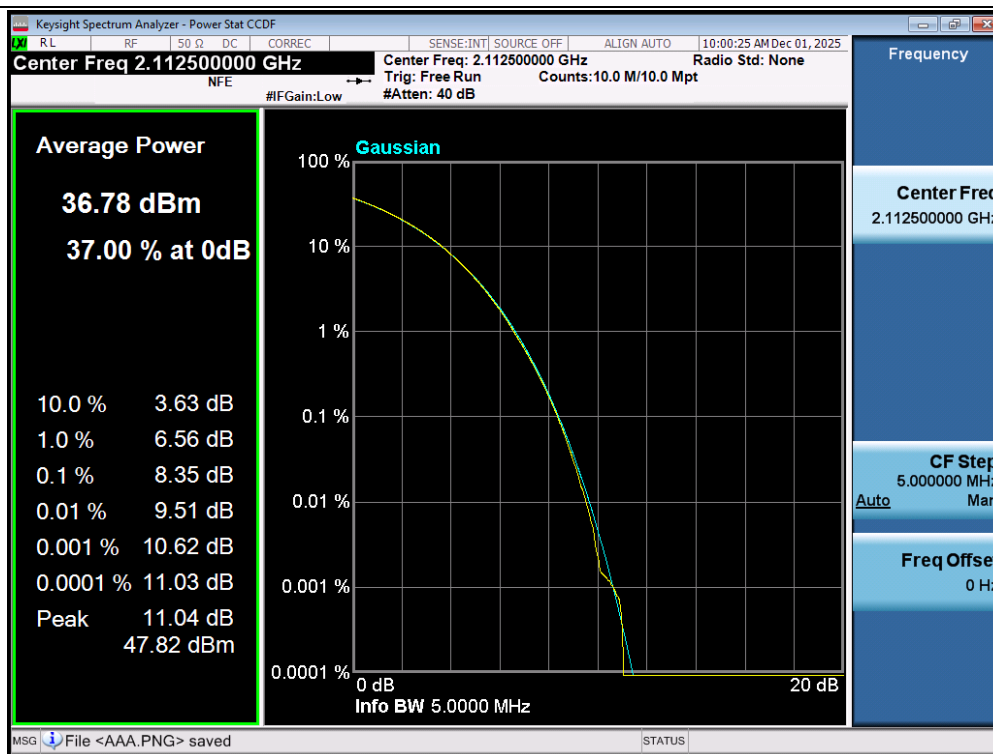
Antenna 2 / (4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier] / 64QAM / High / Contiguous



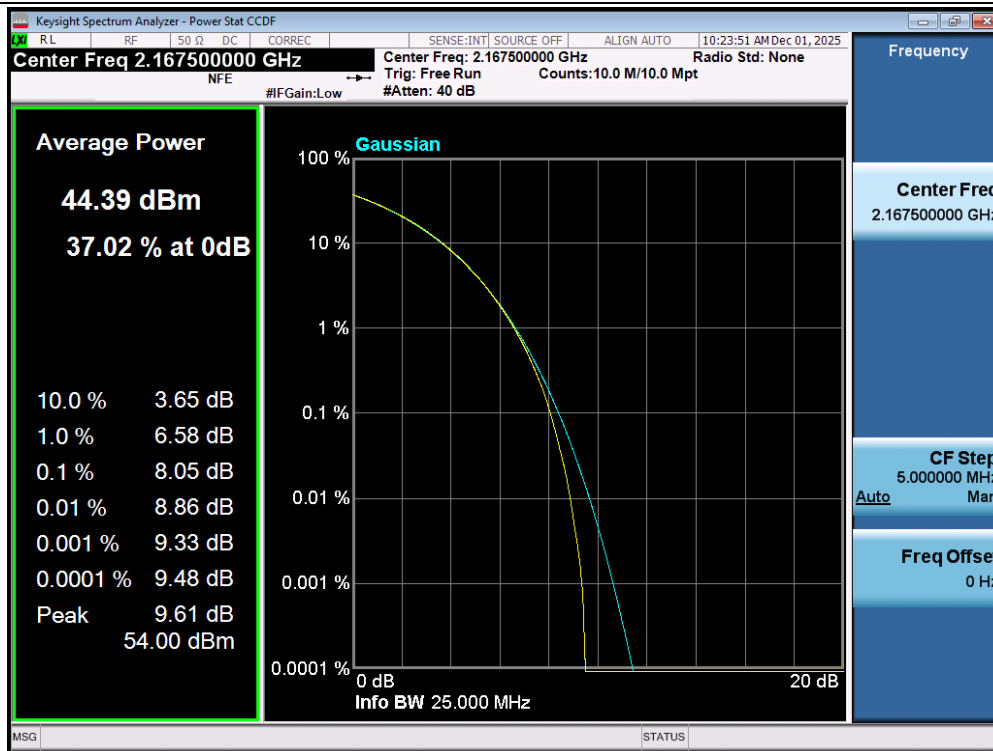
Antenna 0 / (4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / 64QAM / Low / Contiguous



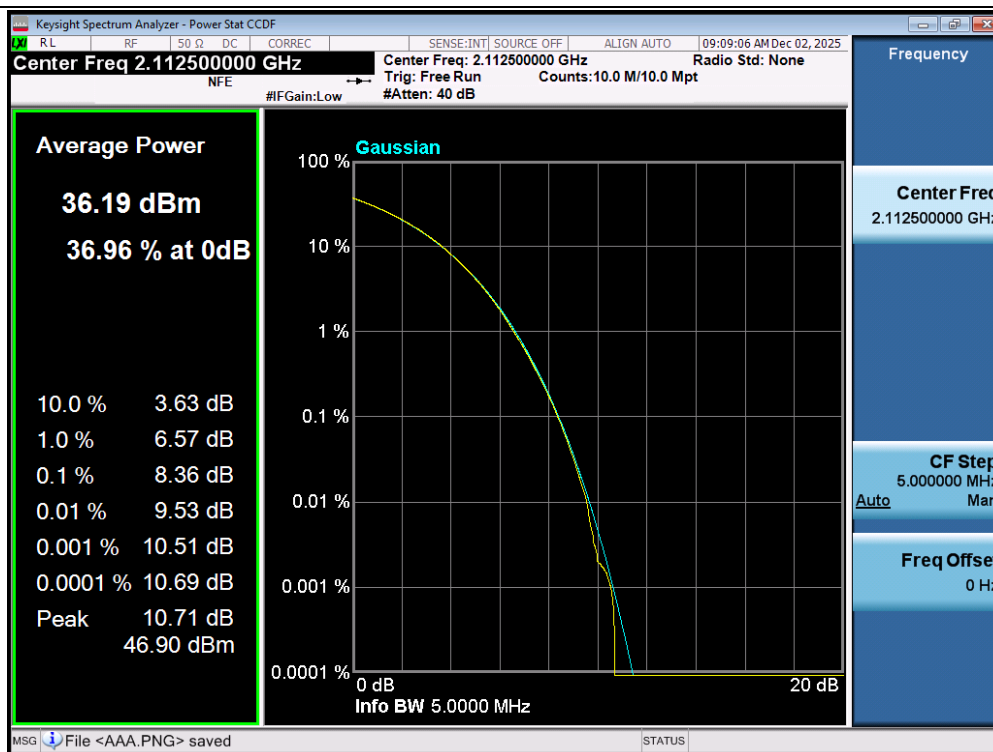
Antenna 3 / (4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / 256QAM / Low / Non-Contiguous



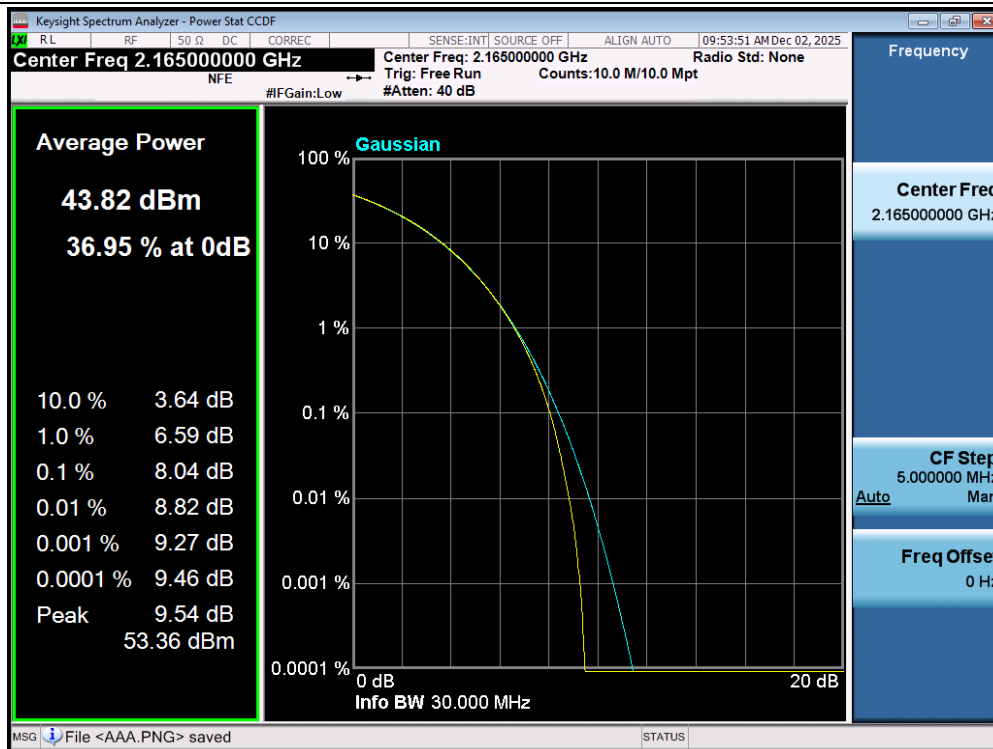
Antenna 0 / (4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / 16QAM / High / Non-Contiguous



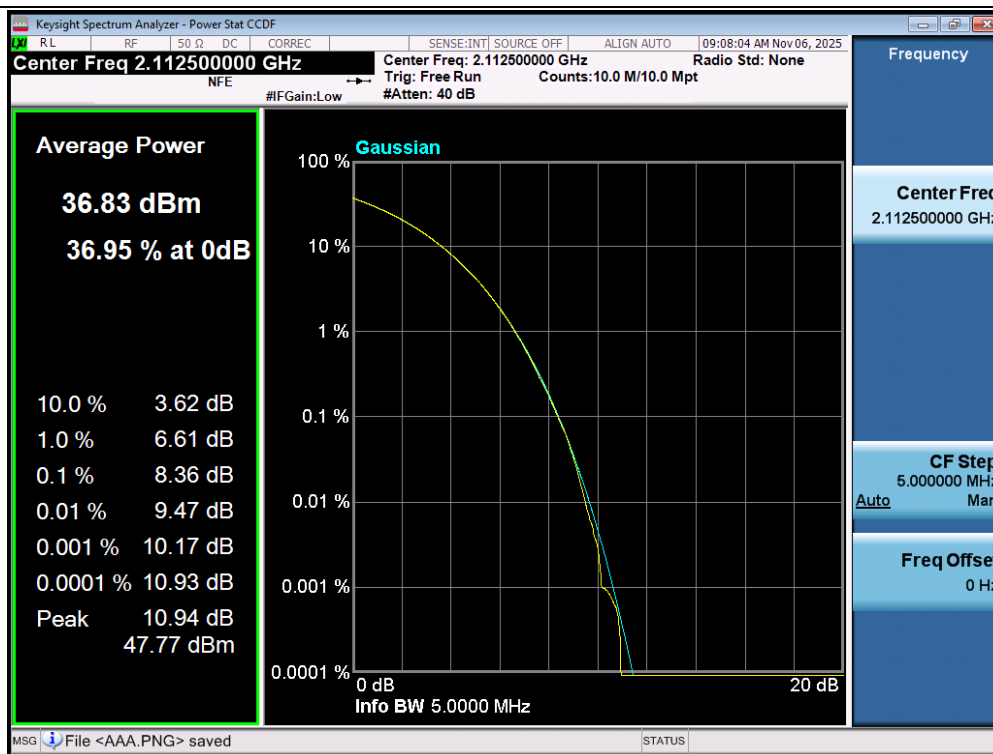
Antenna 3 / (4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier] / 256QAM / Low / Non-Contiguous



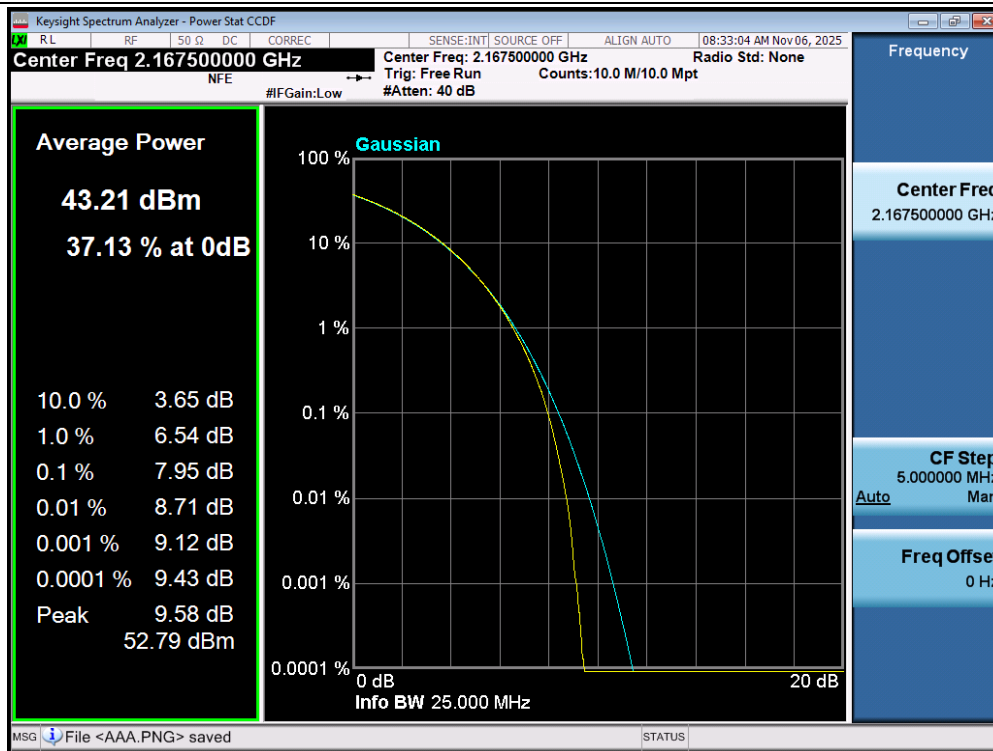
Antenna 2 / (4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier] / 16QAM / High / Non-Contiguous



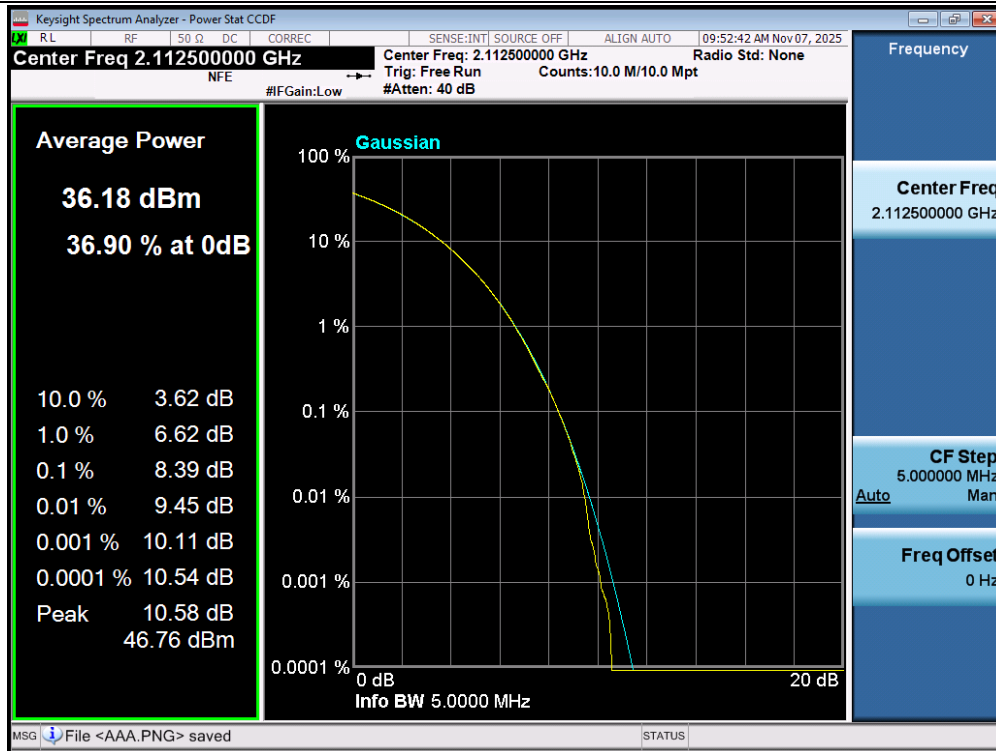
Antenna 1 / (4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / QPSK / Low / Non-Contiguous



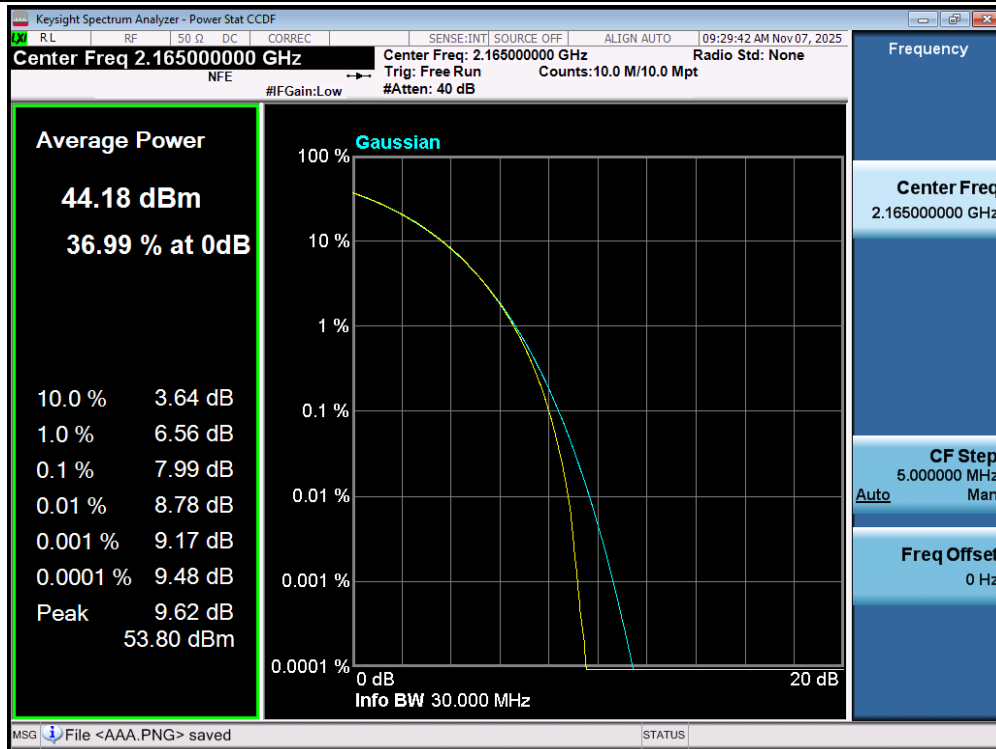
Antenna 2 / (4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / 256QAM / High / Non-Contiguous



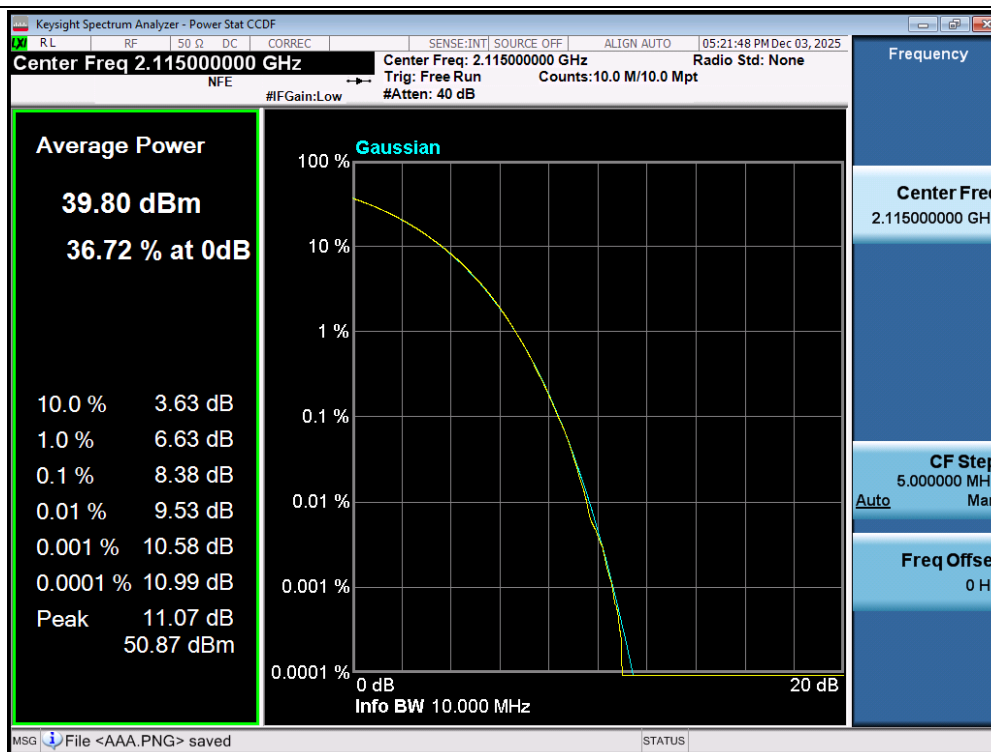
Antenna 3 / (4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier] / QPSK / Low / Non-Contiguous



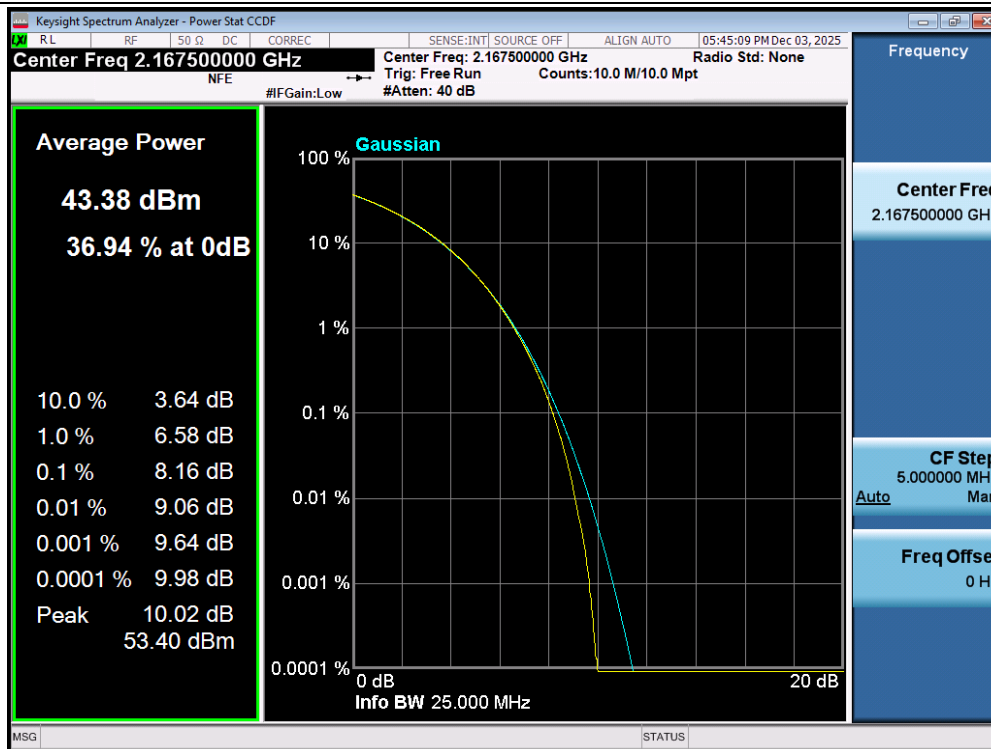
Antenna 1 / (4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier] / 16QAM / High / Non-Contiguous



Antenna 3 / (4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / 64QAM / Low / Non-Contiguous



Antenna 1 / (4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / QPSK / High / Non-Contiguous



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 $\geq 3 \times$ 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 show a similar trend across all ports, so only the worst-case plot is attached.

Test Results:

Tabular Data of RF Occupied bandwidth

(4 Port) n2 5G NR 25 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	Occupied bandwidth (MHz)
0	QPSK	Low	1 942.50	23.795
		Middle	1 960.00	23.839
		High	1 977.50	23.789
	16QAM	Low	1 942.50	23.780
		Middle	1 960.00	23.779
		High	1 977.50	23.764
	64QAM	Low	1 942.50	23.778
		Middle	1 960.00	23.750
		High	1 977.50	23.749
	256QAM	Low	1 942.50	23.779
		Middle	1 960.00	23.810
		High	1 977.50	23.791
1	QPSK	Low	1 942.50	23.805
		Middle	1 960.00	23.840
		High	1 977.50	23.782
	16QAM	Low	1 942.50	23.724
		Middle	1 960.00	23.816
		High	1 977.50	23.805
	64QAM	Low	1 942.50	23.857
		Middle	1 960.00	23.811
		High	1 977.50	23.772
	256QAM	Low	1 942.50	23.751
		Middle	1 960.00	23.837
		High	1 977.50	23.794
2	QPSK	Low	1 942.50	23.789
		Middle	1 960.00	23.831
		High	1 977.50	23.760
	16QAM	Low	1 942.50	23.763
		Middle	1 960.00	23.802
		High	1 977.50	23.815
	64QAM	Low	1 942.50	23.785
		Middle	1 960.00	23.811
		High	1 977.50	23.834
	256QAM	Low	1 942.50	23.792
		Middle	1 960.00	23.763
		High	1 977.50	23.749
3	QPSK	Low	1 942.50	23.791
		Middle	1 960.00	23.787
		High	1 977.50	23.776
	16QAM	Low	1 942.50	23.805
		Middle	1 960.00	23.773
		High	1 977.50	23.876
	64QAM	Low	1 942.50	23.833
		Middle	1 960.00	23.772
		High	1 977.50	23.818
	256QAM	Low	1 942.50	23.824
		Middle	1 960.00	23.800
		High	1 977.50	23.832

(4 Port) n66 5G NR 25 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	Occupied bandwidth (MHz)
0	QPSK	Low	2 122.50	23.788
		Middle	2 145.00	23.877
		High	2 167.50	23.780
	16QAM	Low	2 122.50	23.741
		Middle	2 145.00	23.766
		High	2 167.50	23.757
	64QAM	Low	2 122.50	23.755
		Middle	2 145.00	23.774
		High	2 167.50	23.802
	256QAM	Low	2 122.50	23.713
		Middle	2 145.00	23.776
		High	2 167.50	23.806
1	QPSK	Low	2 122.50	23.731
		Middle	2 145.00	23.836
		High	2 167.50	23.808
	16QAM	Low	2 122.50	23.712
		Middle	2 145.00	23.815
		High	2 167.50	23.781
	64QAM	Low	2 122.50	23.806
		Middle	2 145.00	23.798
		High	2 167.50	23.792
	256QAM	Low	2 122.50	23.713
		Middle	2 145.00	23.795
		High	2 167.50	23.746
2	QPSK	Low	2 122.50	23.677
		Middle	2 145.00	23.791
		High	2 167.50	23.720
	16QAM	Low	2 122.50	23.768
		Middle	2 145.00	23.831
		High	2 167.50	23.851
	64QAM	Low	2 122.50	23.718
		Middle	2 145.00	23.805
		High	2 167.50	23.756
	256QAM	Low	2 122.50	23.692
		Middle	2 145.00	23.781
		High	2 167.50	23.790
3	QPSK	Low	2 122.50	23.728
		Middle	2 145.00	23.803
		High	2 167.50	23.780
	16QAM	Low	2 122.50	23.701
		Middle	2 145.00	23.774
		High	2 167.50	23.809
	64QAM	Low	2 122.50	23.771
		Middle	2 145.00	23.790
		High	2 167.50	23.802
	256QAM	Low	2 122.50	23.721
		Middle	2 145.00	23.765
		High	2 167.50	23.802

(4 Port) n66 5G NR 30 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	Occupied bandwidth (MHz)
0	QPSK	Low	2 125.00	28.560
		Middle	2 145.00	28.595
		High	2 165.00	28.624
	16QAM	Low	2 125.00	28.545
		Middle	2 145.00	28.554
		High	2 165.00	28.646
	64QAM	Low	2 125.00	28.593
		Middle	2 145.00	28.673
		High	2 165.00	28.632
	256QAM	Low	2 125.00	28.511
		Middle	2 145.00	28.605
		High	2 165.00	28.621
1	QPSK	Low	2 125.00	28.619
		Middle	2 145.00	28.620
		High	2 165.00	28.595
	16QAM	Low	2 125.00	28.567
		Middle	2 145.00	28.622
		High	2 165.00	28.606
	64QAM	Low	2 125.00	28.577
		Middle	2 145.00	28.608
		High	2 165.00	28.622
	256QAM	Low	2 125.00	28.548
		Middle	2 145.00	28.641
		High	2 165.00	28.636
2	QPSK	Low	2 125.00	28.597
		Middle	2 145.00	28.588
		High	2 165.00	28.582
	16QAM	Low	2 125.00	28.530
		Middle	2 145.00	28.619
		High	2 165.00	28.656
	64QAM	Low	2 125.00	28.566
		Middle	2 145.00	28.616
		High	2 165.00	28.606
	256QAM	Low	2 125.00	28.564
		Middle	2 145.00	28.629
		High	2 165.00	28.627
3	QPSK	Low	2 125.00	28.594
		Middle	2 145.00	28.606
		High	2 165.00	28.615
	16QAM	Low	2 125.00	28.556
		Middle	2 145.00	28.573
		High	2 165.00	28.614
	64QAM	Low	2 125.00	28.617
		Middle	2 145.00	28.653
		High	2 165.00	28.561
	256QAM	Low	2 125.00	28.545
		Middle	2 145.00	28.657
		High	2 165.00	28.600

Tabular Data of RF Contiguous Occupied bandwidth

(4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	Occupied bandwidth (MHz)
0	QPSK	Low	2 125.00	29.068
		Middle	2 145.00	29.042
		High	2 165.00	29.066
	16QAM	Low	2 125.00	29.013
		Middle	2 145.00	29.049
		High	2 165.00	29.031
	64QAM	Low	2 125.00	28.965
		Middle	2 145.00	29.085
		High	2 165.00	29.113
	256QAM	Low	2 125.00	28.996
		Middle	2 145.00	29.076
		High	2 165.00	29.083
1	QPSK	Low	2 125.00	29.030
		Middle	2 145.00	29.098
		High	2 165.00	28.955
	16QAM	Low	2 125.00	28.979
		Middle	2 145.00	29.033
		High	2 165.00	29.034
	64QAM	Low	2 125.00	29.003
		Middle	2 145.00	29.097
		High	2 165.00	29.008
	256QAM	Low	2 125.00	28.993
		Middle	2 145.00	29.087
		High	2 165.00	29.044
2	QPSK	Low	2 125.00	28.958
		Middle	2 145.00	29.081
		High	2 165.00	29.073
	16QAM	Low	2 125.00	28.993
		Middle	2 145.00	29.057
		High	2 165.00	29.089
	64QAM	Low	2 125.00	28.991
		Middle	2 145.00	29.048
		High	2 165.00	29.001
	256QAM	Low	2 125.00	29.025
		Middle	2 145.00	29.086
		High	2 165.00	29.040
3	QPSK	Low	2 125.00	29.020
		Middle	2 145.00	29.116
		High	2 165.00	29.087
	16QAM	Low	2 125.00	29.005
		Middle	2 145.00	29.077
		High	2 165.00	29.125
	64QAM	Low	2 125.00	28.971
		Middle	2 145.00	29.033
		High	2 165.00	29.010
	256QAM	Low	2 125.00	28.982
		Middle	2 145.00	29.094
		High	2 165.00	29.068

(4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	Occupied bandwidth (MHz)
0	QPSK	Low	2 127.50	33.863
		Middle	2 145.00	33.928
		High	2 162.50	33.925
	16QAM	Low	2 127.50	33.878
		Middle	2 145.00	33.909
		High	2 162.50	33.936
	64QAM	Low	2 127.50	33.902
		Middle	2 145.00	33.923
		High	2 162.50	33.913
	256QAM	Low	2 127.50	33.868
		Middle	2 145.00	33.875
		High	2 162.50	33.962
1	QPSK	Low	2 127.50	33.909
		Middle	2 145.00	33.927
		High	2 162.50	33.924
	16QAM	Low	2 127.50	33.910
		Middle	2 145.00	33.982
		High	2 162.50	33.944
	64QAM	Low	2 127.50	33.895
		Middle	2 145.00	33.931
		High	2 162.50	33.938
	256QAM	Low	2 127.50	33.862
		Middle	2 145.00	34.005
		High	2 162.50	33.870
2	QPSK	Low	2 127.50	33.873
		Middle	2 145.00	33.957
		High	2 162.50	33.940
	16QAM	Low	2 127.50	33.826
		Middle	2 145.00	34.013
		High	2 162.50	33.878
	64QAM	Low	2 127.50	33.927
		Middle	2 145.00	33.925
		High	2 162.50	33.823
	256QAM	Low	2 127.50	33.954
		Middle	2 145.00	33.954
		High	2 162.50	33.927
3	QPSK	Low	2 127.50	33.885
		Middle	2 145.00	33.978
		High	2 162.50	33.882
	16QAM	Low	2 127.50	33.833
		Middle	2 145.00	33.977
		High	2 162.50	33.887
	64QAM	Low	2 127.50	33.845
		Middle	2 145.00	33.888
		High	2 162.50	33.875
	256QAM	Low	2 127.50	33.809
		Middle	2 145.00	33.927
		High	2 162.50	33.895

(4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	Occupied bandwidth (MHz)
0	QPSK	Low	2 125.00	28.968
		Middle	2 145.00	29.067
		High	2 165.00	29.060
	16QAM	Low	2 125.00	29.017
		Middle	2 145.00	29.071
		High	2 165.00	29.104
	64QAM	Low	2 125.00	29.031
		Middle	2 145.00	29.049
		High	2 165.00	29.079
	256QAM	Low	2 125.00	28.983
		Middle	2 145.00	29.053
		High	2 165.00	29.062
1	QPSK	Low	2 125.00	28.974
		Middle	2 145.00	29.038
		High	2 165.00	29.040
	16QAM	Low	2 125.00	29.018
		Middle	2 145.00	29.099
		High	2 165.00	29.114
	64QAM	Low	2 125.00	29.004
		Middle	2 145.00	29.103
		High	2 165.00	29.053
	256QAM	Low	2 125.00	28.988
		Middle	2 145.00	29.085
		High	2 165.00	28.989
2	QPSK	Low	2 125.00	28.993
		Middle	2 145.00	29.035
		High	2 165.00	29.005
	16QAM	Low	2 125.00	29.036
		Middle	2 145.00	29.089
		High	2 165.00	29.064
	64QAM	Low	2 125.00	29.006
		Middle	2 145.00	29.013
		High	2 165.00	29.096
	256QAM	Low	2 125.00	28.988
		Middle	2 145.00	29.090
		High	2 165.00	29.060
3	QPSK	Low	2 125.00	28.955
		Middle	2 145.00	29.095
		High	2 165.00	29.032
	16QAM	Low	2 125.00	29.032
		Middle	2 145.00	29.061
		High	2 165.00	29.122
	64QAM	Low	2 125.00	28.946
		Middle	2 145.00	29.055
		High	2 165.00	29.078
	256QAM	Low	2 125.00	28.927
		Middle	2 145.00	29.064
		High	2 165.00	29.002

(4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	Occupied bandwidth (MHz)
0	QPSK	Low	2 127.50	33.894
		Middle	2 145.00	33.961
		High	2 162.50	33.905
	16QAM	Low	2 127.50	33.954
		Middle	2 145.00	33.878
		High	2 162.50	33.964
	64QAM	Low	2 127.50	33.823
		Middle	2 145.00	33.936
		High	2 162.50	33.919
	256QAM	Low	2 127.50	33.816
		Middle	2 145.00	33.952
		High	2 162.50	33.978
1	QPSK	Low	2 127.50	33.790
		Middle	2 145.00	33.934
		High	2 162.50	33.928
	16QAM	Low	2 127.50	33.875
		Middle	2 145.00	33.942
		High	2 162.50	33.929
	64QAM	Low	2 127.50	33.888
		Middle	2 145.00	33.968
		High	2 162.50	33.952
	256QAM	Low	2 127.50	33.886
		Middle	2 145.00	34.001
		High	2 162.50	33.981
2	QPSK	Low	2 127.50	33.819
		Middle	2 145.00	33.990
		High	2 162.50	33.869
	16QAM	Low	2 127.50	33.824
		Middle	2 145.00	33.994
		High	2 162.50	33.904
	64QAM	Low	2 127.50	33.882
		Middle	2 145.00	34.021
		High	2 162.50	33.925
	256QAM	Low	2 127.50	33.884
		Middle	2 145.00	33.928
		High	2 162.50	33.932
3	QPSK	Low	2 127.50	33.883
		Middle	2 145.00	33.894
		High	2 162.50	33.979
	16QAM	Low	2 127.50	33.851
		Middle	2 145.00	33.930
		High	2 162.50	33.970
	64QAM	Low	2 127.50	33.873
		Middle	2 145.00	33.967
		High	2 162.50	33.941
	256QAM	Low	2 127.50	33.832
		Middle	2 145.00	33.954
		High	2 162.50	33.939

(4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	Occupied bandwidth (MHz)
0	QPSK	Low	2 127.50	33.860
		Middle	2 145.00	33.912
		High	2 162.50	33.916
	16QAM	Low	2 127.50	33.778
		Middle	2 145.00	33.871
		High	2 162.50	33.938
	64QAM	Low	2 127.50	33.735
		Middle	2 145.00	33.889
		High	2 162.50	33.938
	256QAM	Low	2 127.50	33.783
		Middle	2 145.00	33.812
		High	2 162.50	33.930
1	QPSK	Low	2 127.50	33.857
		Middle	2 145.00	33.870
		High	2 162.50	33.881
	16QAM	Low	2 127.50	33.811
		Middle	2 145.00	33.870
		High	2 162.50	33.868
	64QAM	Low	2 127.50	33.775
		Middle	2 145.00	33.942
		High	2 162.50	33.918
	256QAM	Low	2 127.50	33.770
		Middle	2 145.00	33.881
		High	2 162.50	33.958
2	QPSK	Low	2 127.50	33.859
		Middle	2 145.00	33.900
		High	2 162.50	33.903
	16QAM	Low	2 127.50	33.808
		Middle	2 145.00	33.865
		High	2 162.50	33.952
	64QAM	Low	2 127.50	33.812
		Middle	2 145.00	33.952
		High	2 162.50	33.934
	256QAM	Low	2 127.50	33.814
		Middle	2 145.00	33.875
		High	2 162.50	33.874
3	QPSK	Low	2 127.50	33.804
		Middle	2 145.00	33.892
		High	2 162.50	33.973
	16QAM	Low	2 127.50	33.794
		Middle	2 145.00	33.899
		High	2 162.50	33.969
	64QAM	Low	2 127.50	33.819
		Middle	2 145.00	33.932
		High	2 162.50	33.915
	256QAM	Low	2 127.50	33.758
		Middle	2 145.00	33.967
		High	2 162.50	33.897

Tabular Data of RF Non-Contiguous Occupied bandwidth

(4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier]

Ant.	Mod.	B66 LTE 5 MHz 1 Carrier		n66 5G NR 25 MHz 1 Carrier		Total OBW (MHz)
		Frequency (MHz)	Occupied bandwidth (MHz)	Frequency (MHz)	Occupied bandwidth (MHz)	
0	QPSK	2 112.50	4.4862	2 167.50	23.813	28.299
	16QAM	2 112.50	4.4680	2 167.50	23.827	28.295
	64QAM	2 112.50	4.4884	2 167.50	23.786	28.274
	256QAM	2 112.50	4.4950	2 167.50	23.747	28.242
1	QPSK	2 112.50	4.4795	2 167.50	23.777	28.256
	16QAM	2 112.50	4.4693	2 167.50	23.854	28.323
	64QAM	2 112.50	4.4876	2 167.50	23.858	28.346
	256QAM	2 112.50	4.4815	2 167.50	23.780	28.262
2	QPSK	2 112.50	4.4752	2 167.50	23.820	28.295
	16QAM	2 112.50	4.4683	2 167.50	23.777	28.246
	64QAM	2 112.50	4.4788	2 167.50	23.795	28.274
	256QAM	2 112.50	4.4966	2 167.50	23.757	28.253
3	QPSK	2 112.50	4.4895	2 167.50	23.820	28.309
	16QAM	2 112.50	4.4589	2 167.50	23.768	28.227
	64QAM	2 112.50	4.4826	2 167.50	23.802	28.285
	256QAM	2 112.50	4.4849	2 167.50	23.761	28.246

(4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier]

Ant.	Mod.	B66 LTE 5 MHz 1 Carrier		n66 5G NR 30 MHz 1 Carrier		Total OBW (MHz)
		Frequency (MHz)	Occupied bandwidth (MHz)	Frequency (MHz)	Occupied bandwidth (MHz)	
0	QPSK	2 112.50	4.4814	2 165.00	28.598	33.079
	16QAM	2 112.50	4.4701	2 165.00	28.656	33.126
	64QAM	2 112.50	4.4871	2 165.00	28.614	33.101
	256QAM	2 112.50	4.4933	2 165.00	28.606	33.100
1	QPSK	2 112.50	4.4805	2 165.00	28.640	33.121
	16QAM	2 112.50	4.4660	2 165.00	28.567	33.033
	64QAM	2 112.50	4.4933	2 165.00	28.570	33.063
	256QAM	2 112.50	4.4937	2 165.00	28.640	33.134
2	QPSK	2 112.50	4.4765	2 165.00	28.650	33.127
	16QAM	2 112.50	4.4672	2 165.00	28.604	33.071
	64QAM	2 112.50	4.4839	2 165.00	28.625	33.108
	256QAM	2 112.50	4.4881	2 165.00	28.588	33.076
3	QPSK	2 112.50	4.4790	2 165.00	28.586	33.065
	16QAM	2 112.50	4.4662	2 165.00	28.636	33.103
	64QAM	2 112.50	4.4900	2 165.00	28.612	33.102
	256QAM	2 112.50	4.4894	2 165.00	28.564	33.053

(4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier]

Ant.	Mod.	n66 5G NR 5 MHz 1 Carrier		n66 5G NR 25 MHz 1 Carrier		Total OBW (MHz)
		Frequency (MHz)	Occupied bandwidth (MHz)	Frequency (MHz)	Occupied bandwidth (MHz)	
0	QPSK	2 112.50	4.4691	2 167.50	23.806	28.276
	16QAM	2 112.50	4.4617	2 167.50	23.789	28.251
	64QAM	2 112.50	4.4682	2 167.50	23.773	28.241
	256QAM	2 112.50	4.4761	2 167.50	23.757	28.233
1	QPSK	2 112.50	4.4735	2 167.50	23.812	28.286
	16QAM	2 112.50	4.4785	2 167.50	23.792	28.271
	64QAM	2 112.50	4.4701	2 167.50	23.753	28.223
	256QAM	2 112.50	4.4760	2 167.50	23.783	28.259
2	QPSK	2 112.50	4.4696	2 167.50	23.814	28.283
	16QAM	2 112.50	4.4700	2 167.50	23.765	28.235
	64QAM	2 112.50	4.4631	2 167.50	23.796	28.259
	256QAM	2 112.50	4.4660	2 167.50	23.783	28.249
3	QPSK	2 112.50	4.4741	2 167.50	23.804	28.278
	16QAM	2 112.50	4.4774	2 167.50	23.765	28.242
	64QAM	2 112.50	4.4705	2 167.50	23.842	28.312
	256QAM	2 112.50	4.4710	2 167.50	23.774	28.245

(4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier]

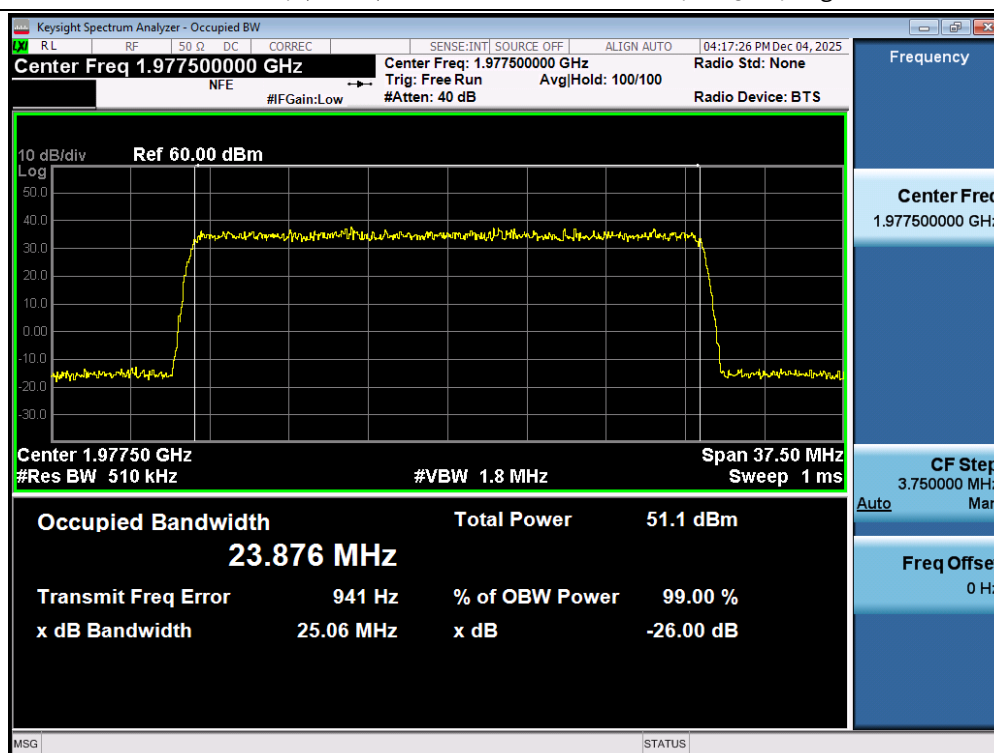
Ant.	Mod.	n66 5G NR 5 MHz 1 Carrier		n66 5G NR 30 MHz 1 Carrier		Total OBW (MHz)
		Frequency (MHz)	Occupied bandwidth (MHz)	Frequency (MHz)	Occupied bandwidth (MHz)	
0	QPSK	2 112.50	4.4707	2 165.00	28.606	33.077
	16QAM	2 112.50	4.4724	2 165.00	28.655	33.128
	64QAM	2 112.50	4.4654	2 165.00	28.566	33.032
	256QAM	2 112.50	4.4618	2 165.00	28.600	33.061
1	QPSK	2 112.50	4.4686	2 165.00	28.610	33.079
	16QAM	2 112.50	4.4606	2 165.00	28.632	33.093
	64QAM	2 112.50	4.4638	2 165.00	28.631	33.095
	256QAM	2 112.50	4.4677	2 165.00	28.593	33.061
2	QPSK	2 112.50	4.4644	2 165.00	28.567	33.031
	16QAM	2 112.50	4.4737	2 165.00	28.568	33.041
	64QAM	2 112.50	4.4777	2 165.00	28.650	33.128
	256QAM	2 112.50	4.4644	2 165.00	28.582	33.047
3	QPSK	2 112.50	4.4668	2 165.00	28.643	33.110
	16QAM	2 112.50	4.4764	2 165.00	28.647	33.124
	64QAM	2 112.50	4.4794	2 165.00	28.664	33.144
	256QAM	2 112.50	4.4586	2 165.00	28.615	33.073

(4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier]

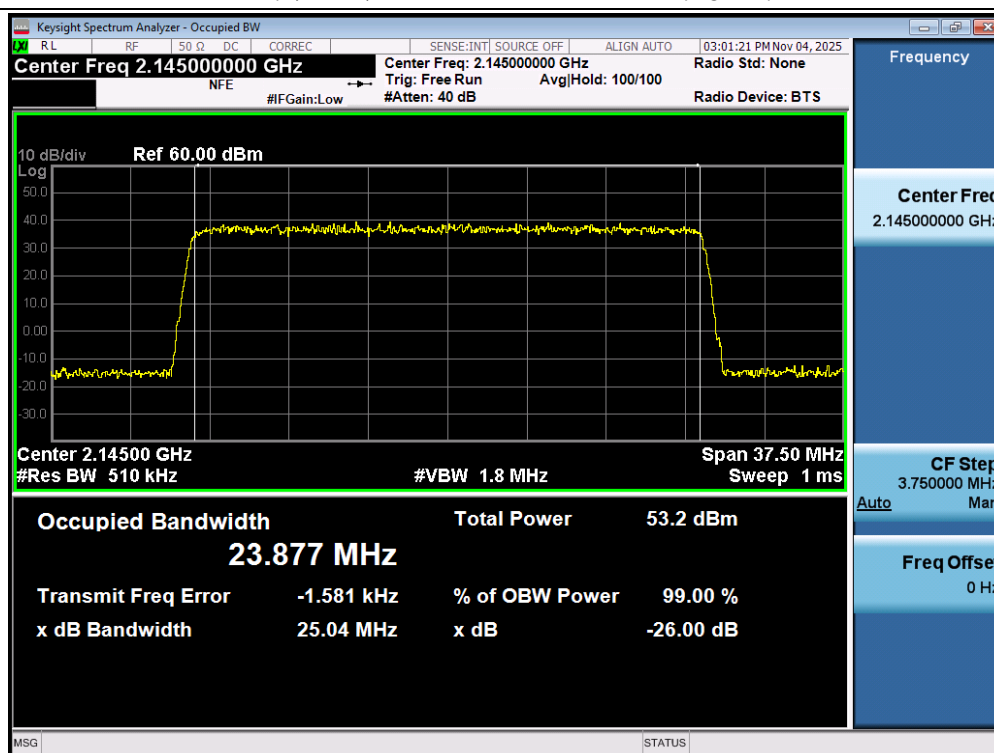
Ant.	Mod.	B66 DSS 10 MHz 1 Carrier		n66 5G NR 25 MHz 1 Carrier		Total OBW (MHz)
		Frequency (MHz)	Occupied bandwidth (MHz)	Frequency (MHz)	Occupied bandwidth (MHz)	
0	QPSK	2 115.00	9.2812	2 167.50	23.808	33.089
	16QAM	2 115.00	9.2703	2 167.50	23.803	33.073
	64QAM	2 115.00	9.2852	2 167.50	23.754	33.040
	256QAM	2 115.00	9.2461	2 167.50	23.789	33.035
1	QPSK	2 115.00	9.2827	2 167.50	23.752	33.035
	16QAM	2 115.00	9.2430	2 167.50	23.782	33.025
	64QAM	2 115.00	9.2798	2 167.50	23.803	33.083
	256QAM	2 115.00	9.2709	2 167.50	23.782	33.053
2	QPSK	2 115.00	9.2601	2 167.50	23.782	33.042
	16QAM	2 115.00	9.2532	2 167.50	23.824	33.078
	64QAM	2 115.00	9.2967	2 167.50	23.801	33.097
	256QAM	2 115.00	9.2691	2 167.50	23.811	33.080
3	QPSK	2 115.00	9.2848	2 167.50	23.806	33.091
	16QAM	2 115.00	9.2364	2 167.50	23.741	32.977
	64QAM	2 115.00	9.2696	2 167.50	23.843	33.113
	256QAM	2 115.00	9.2498	2 167.50	23.779	33.028

Plot Data of RF Occupied bandwidth

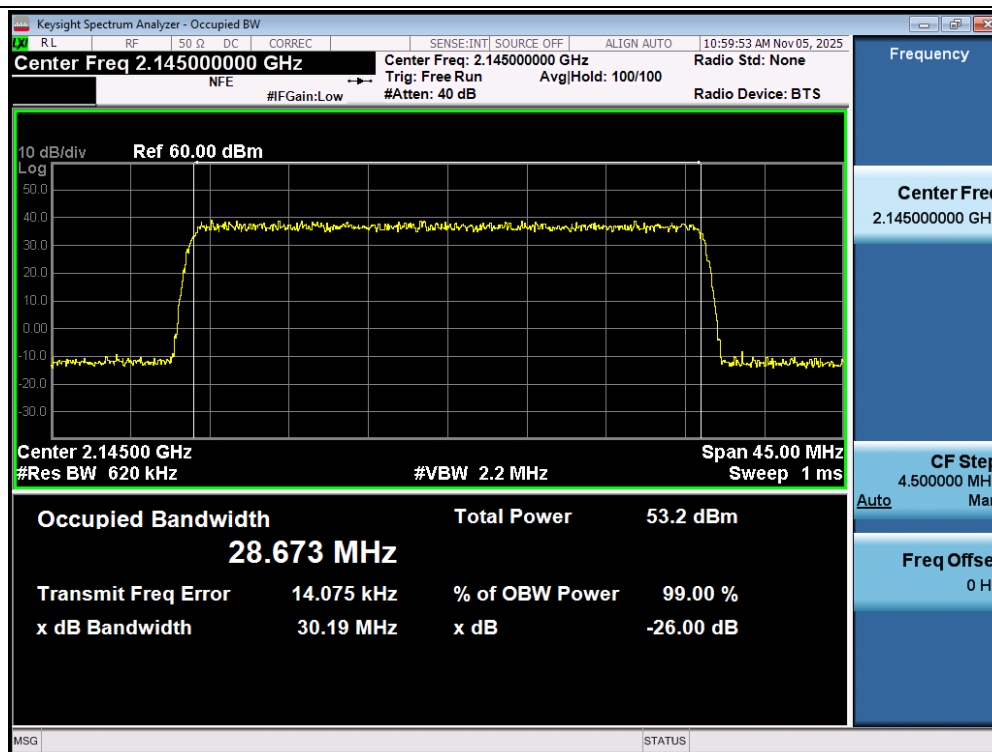
Antenna 3 / (4 Port) n2 5G NR 25 MHz 1 Carrier / 16QAM / High



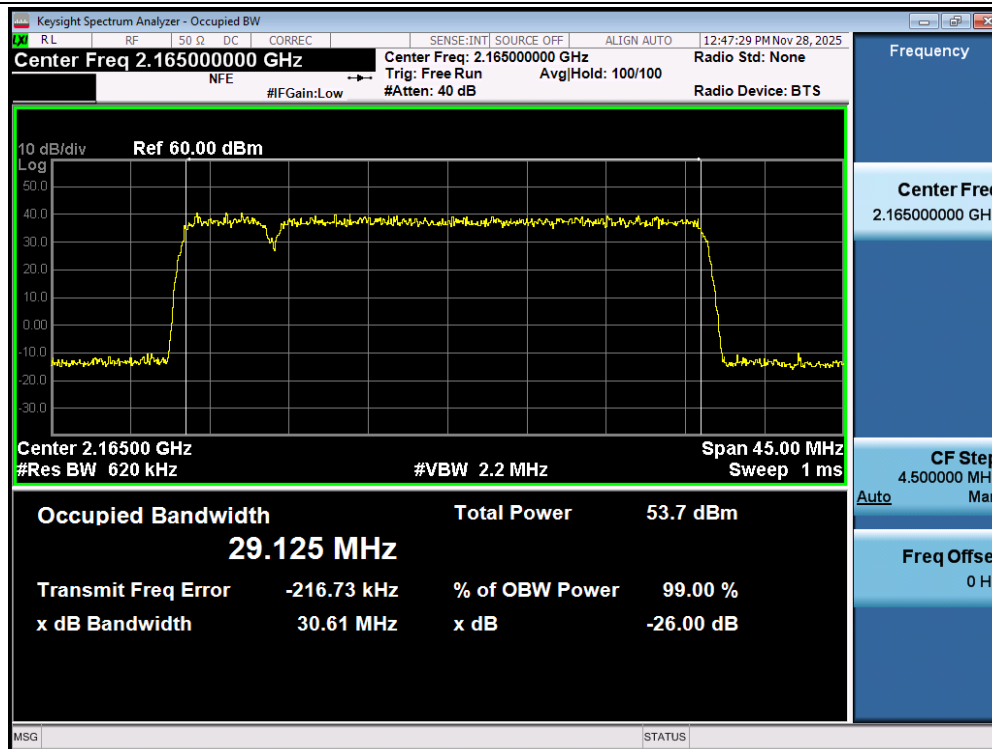
Antenna 0 / (4 Port) n66 5G NR 25 MHz 1 Carrier / QPSK / Middle



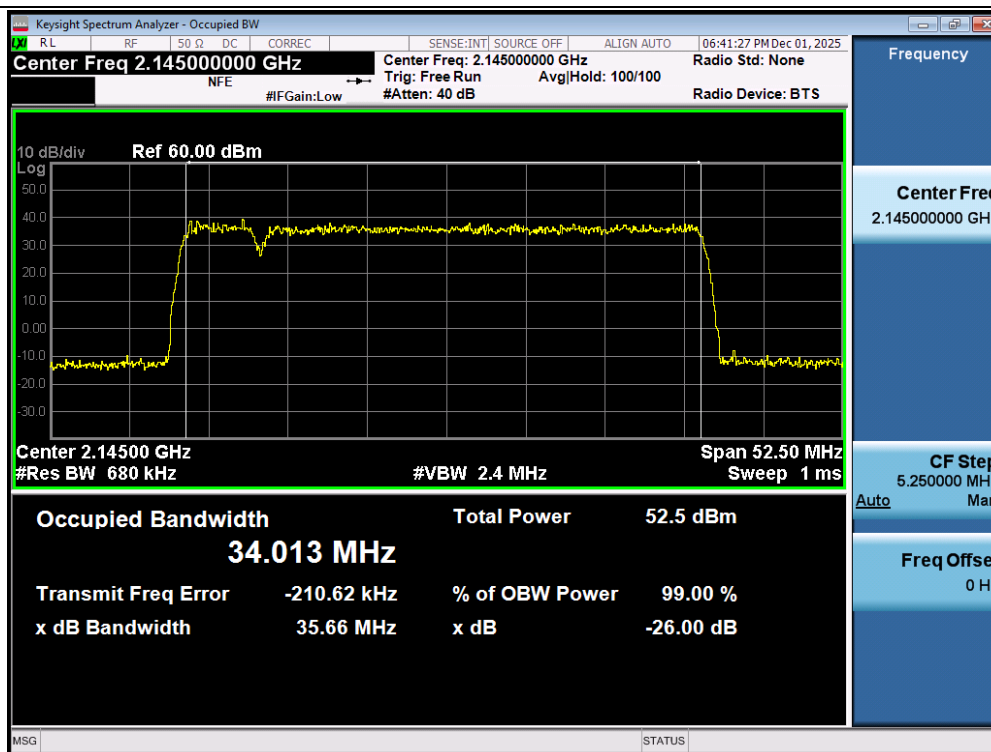
Antenna 0 / (4 Port) n66 5G NR 30 MHz 1 Carrier / 64QAM / Middle



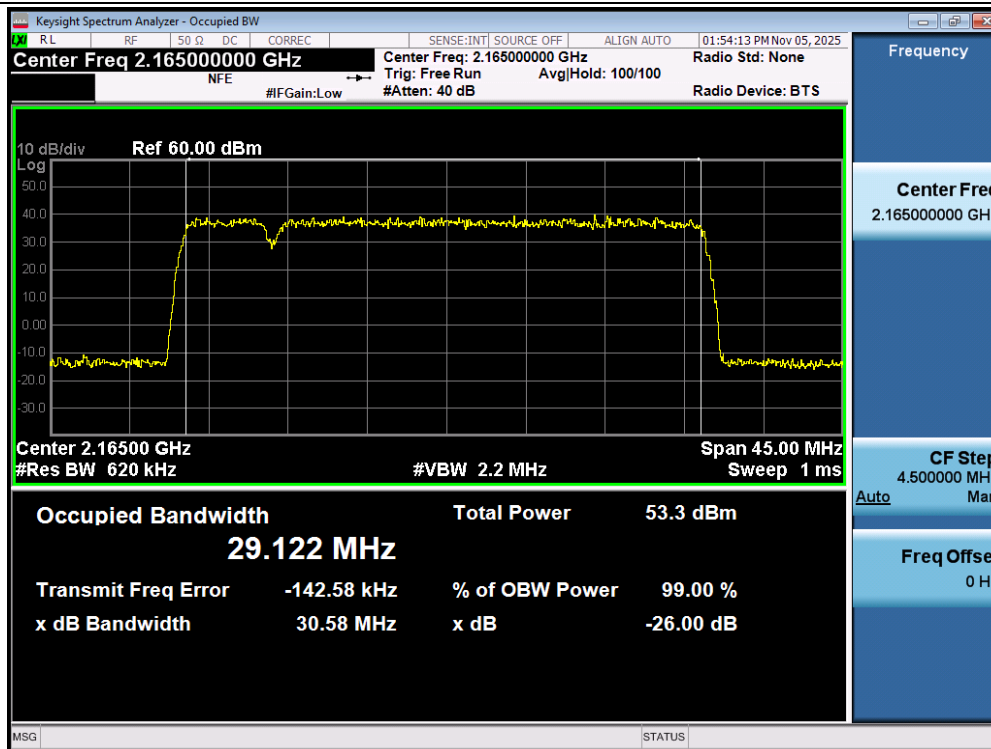
Antenna 3 / (4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / 16QAM / High / Contiguous



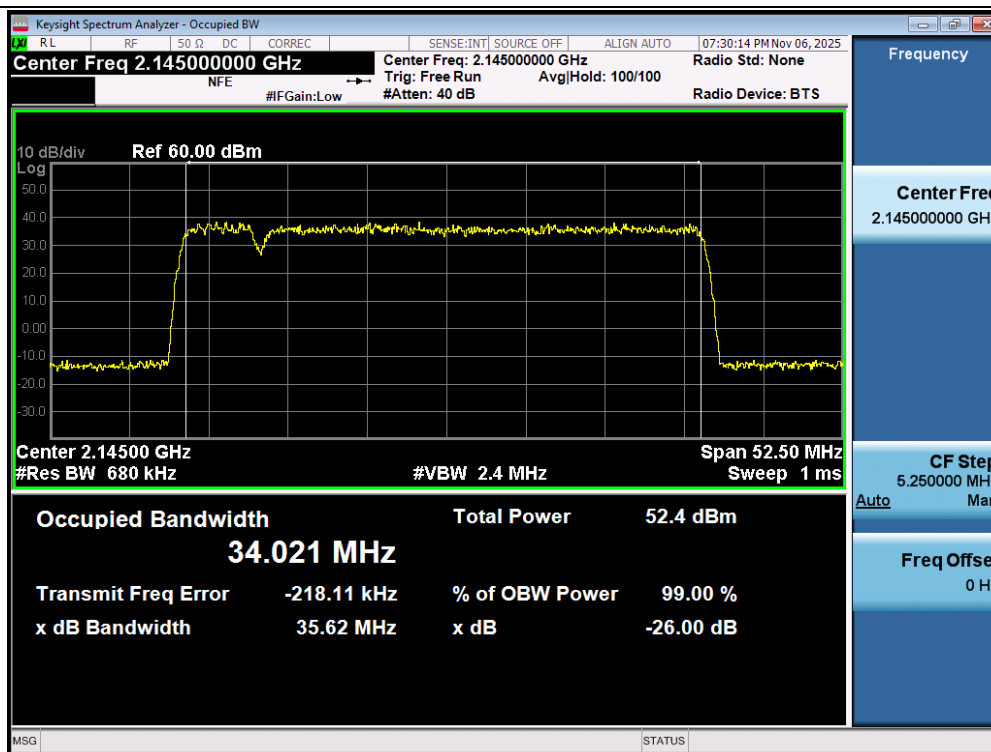
Antenna 2 / (4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier] / 16QAM / Middle / Contiguous



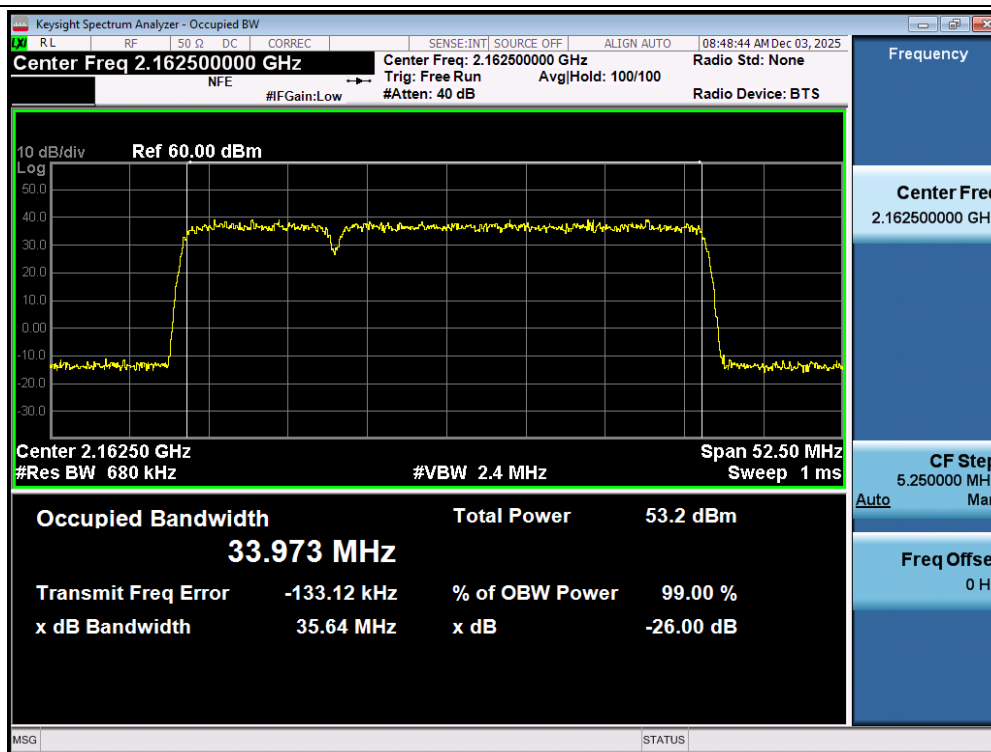
Antenna 3 / (4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / 16QAM / High / Contiguous



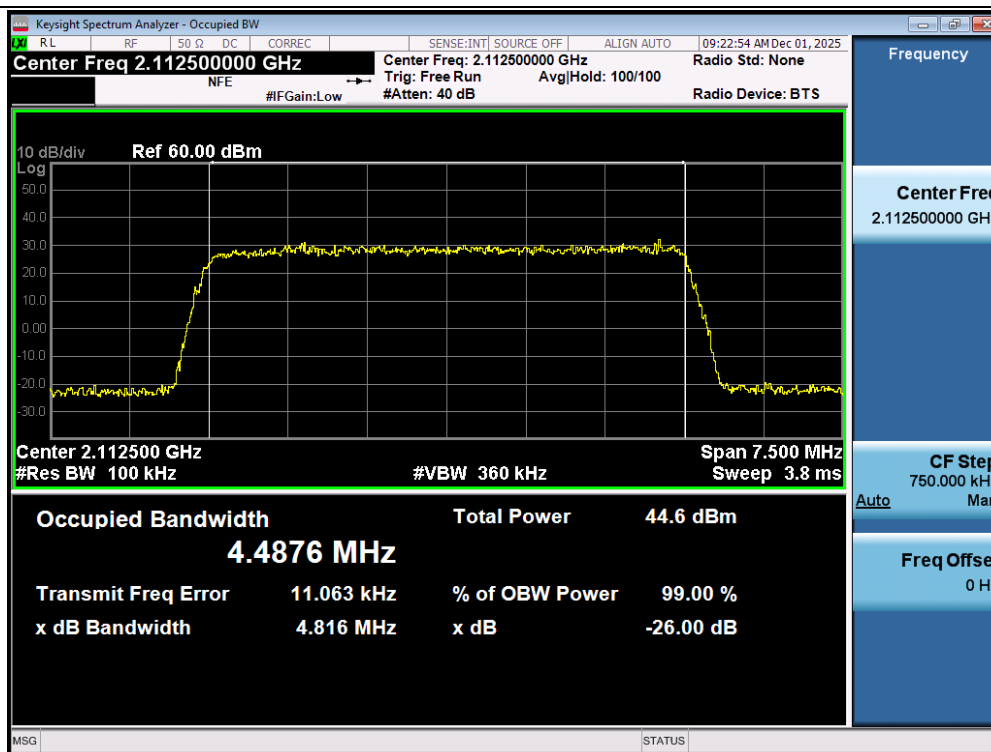
Antenna 2 / (4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier] / 64QAM / Middle / Contiguous



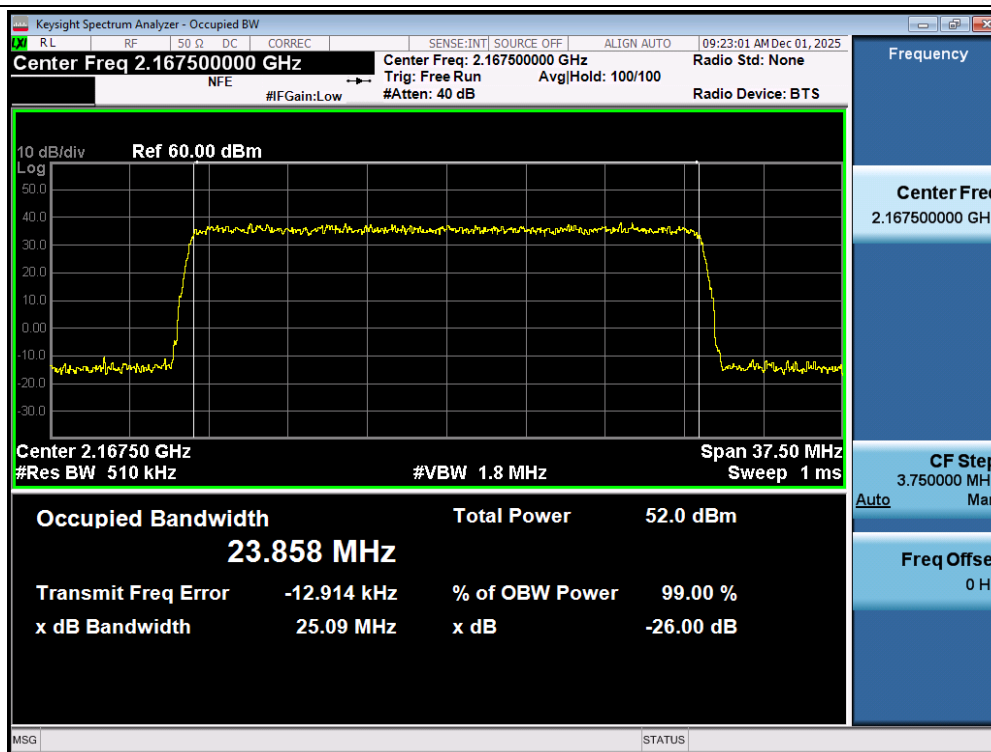
Antenna 3 / (4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / QPSK / High / Contiguous



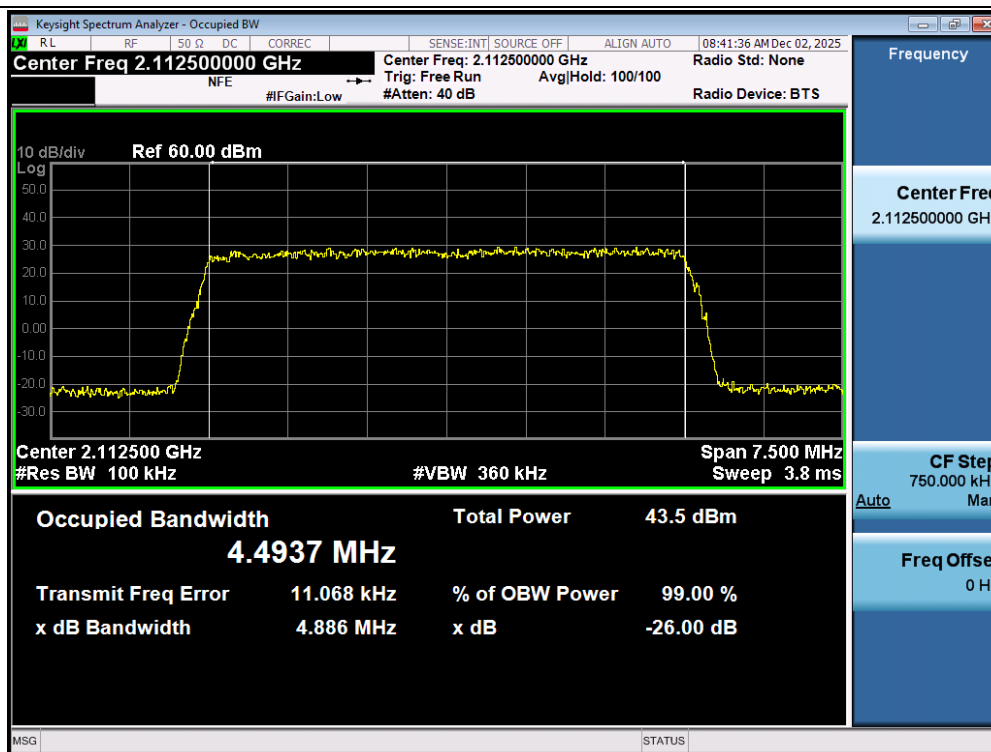
Antenna 1 / (4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / 64QAM / Low / Non-Contiguous



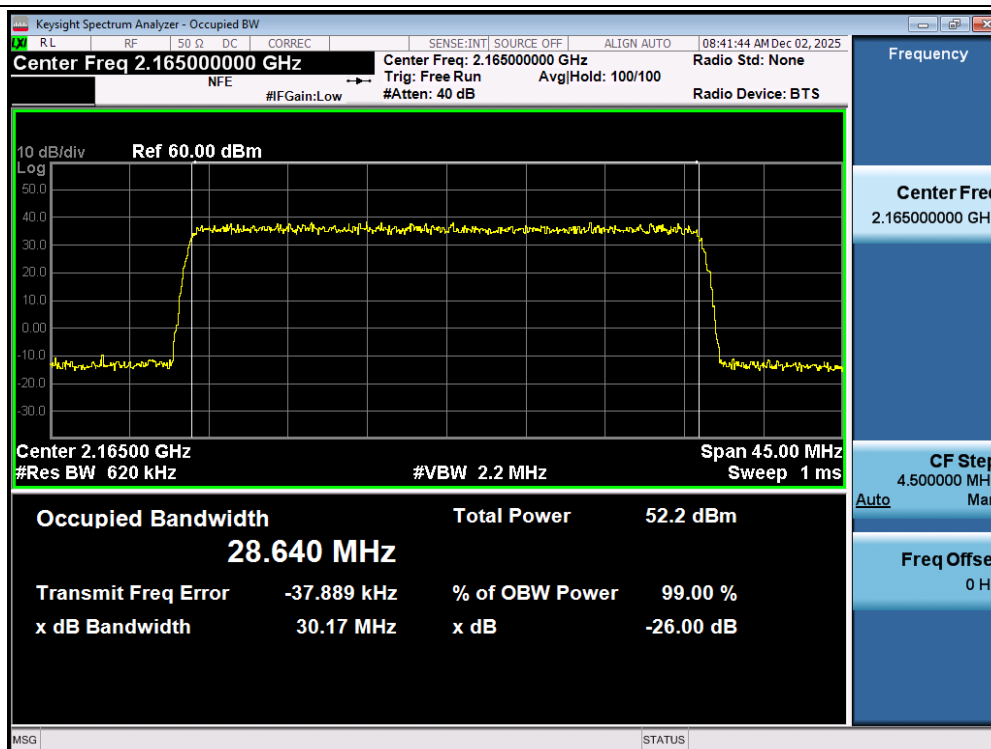
Antenna 1 / (4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / 64QAM / High / Non-Contiguous



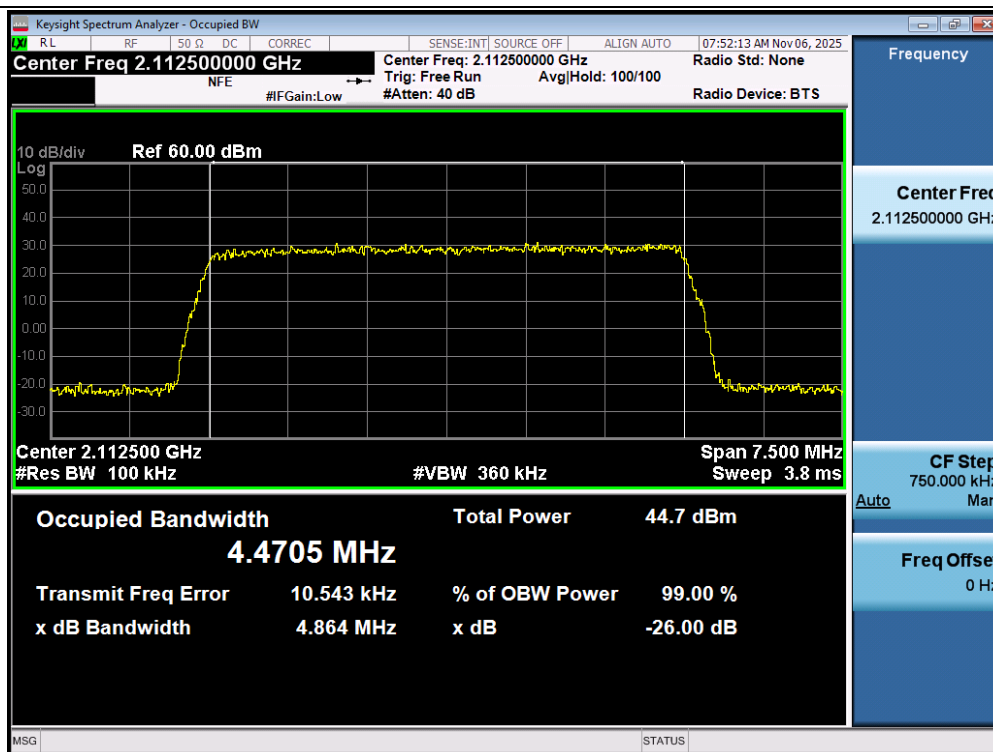
Antenna 1 / (4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier] / 256QAM / Low / Non-Contiguous



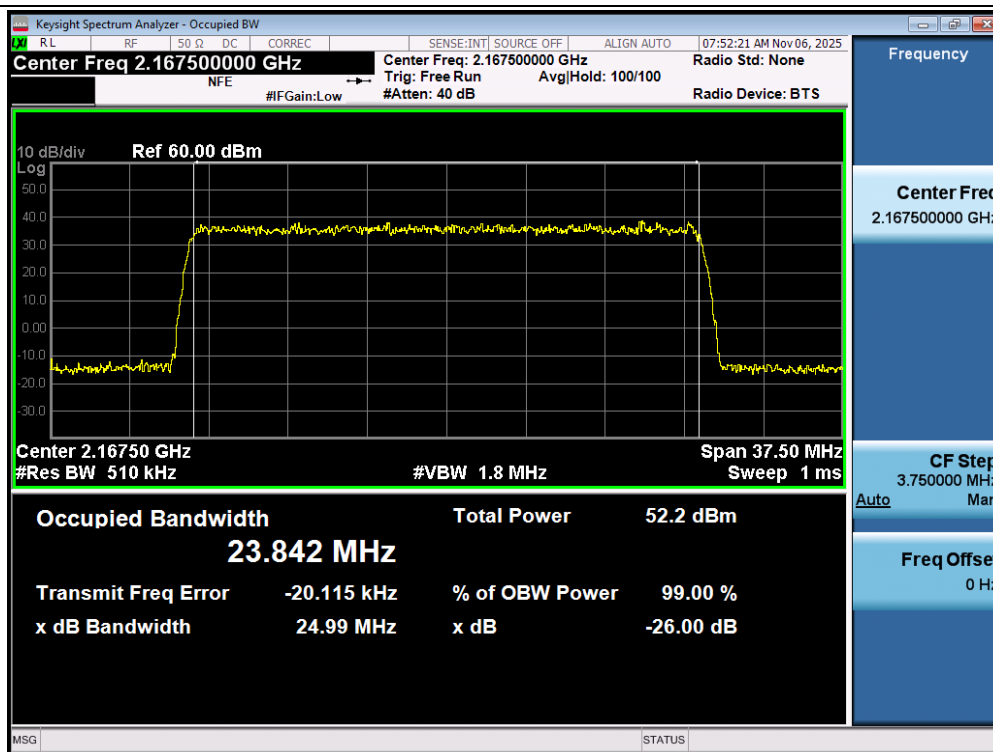
Antenna 1 / (4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier] / 256QAM / High / Non-Contiguous



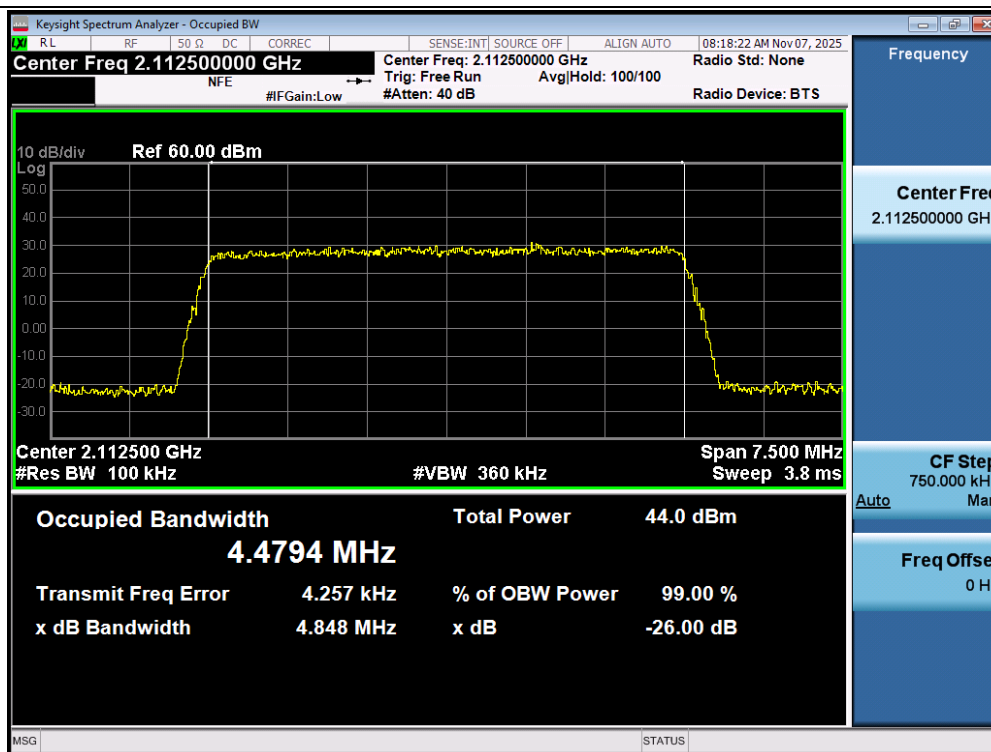
Antenna 3 / (4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / 64QAM / Low / Non-Contiguous



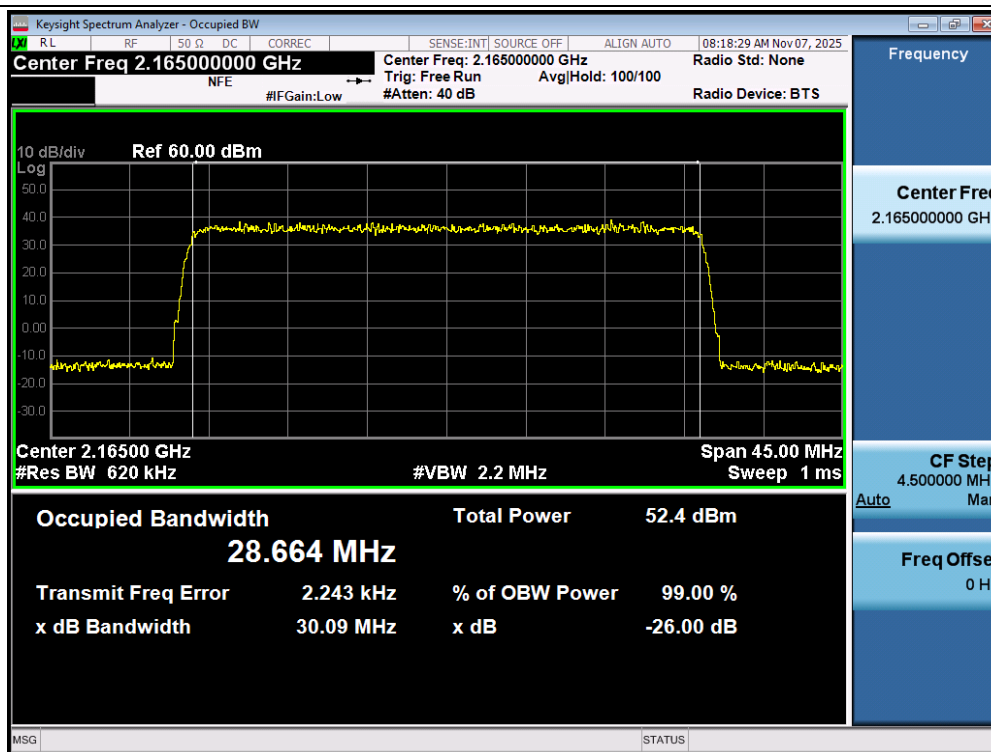
Antenna 3 / (4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / 64QAM / High / Non-Contiguous



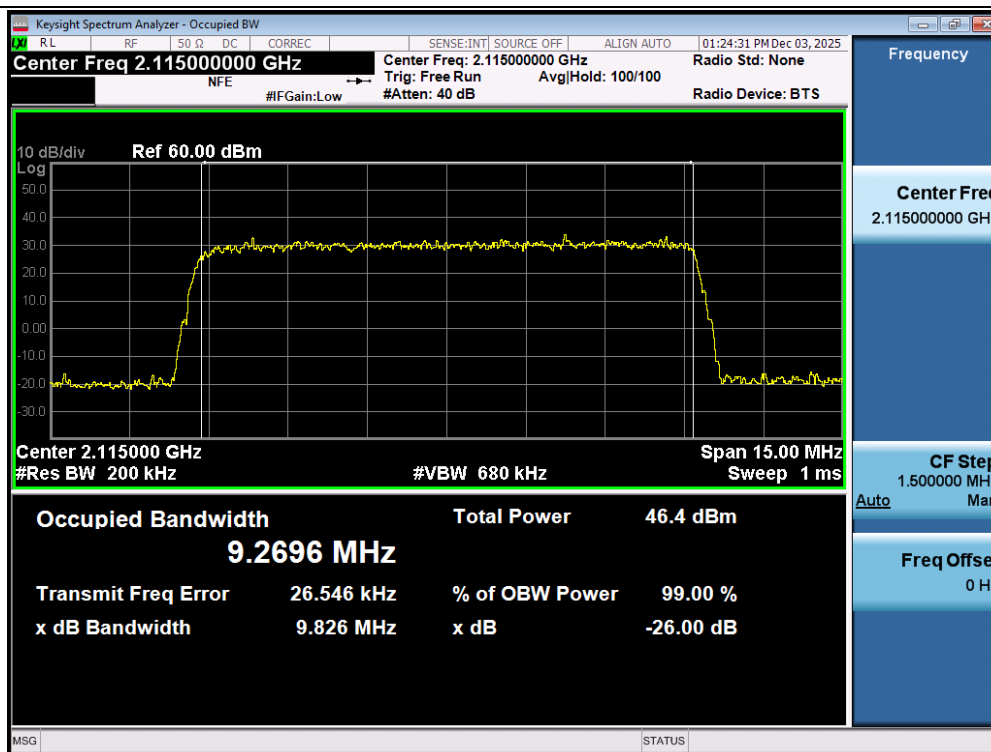
Antenna 3 / (4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier] / 64QAM / Low / Non-Contiguous



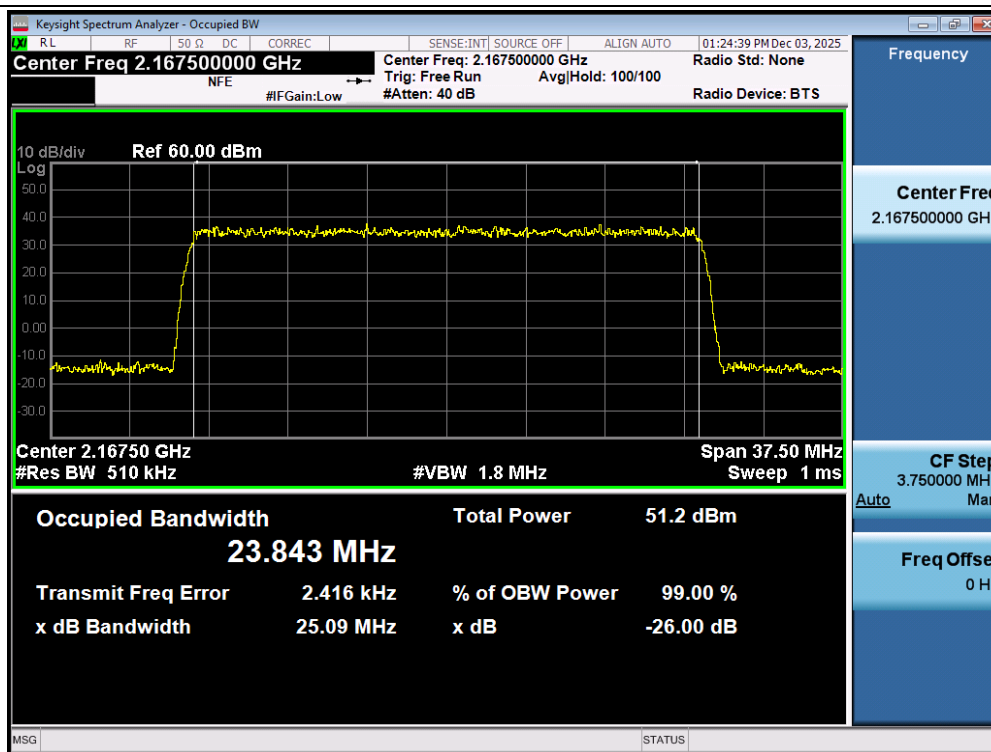
Antenna 3 / (4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier] / 64QAM / High / Non-Contiguous



Antenna 3 / (4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / 64QAM / Low / Non-Contiguous



Antenna 3 / (4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier] / 64QAM / High / Non-Contiguous



5.4. OUT-OF-BAND UNWANTED EMISSIONS

Test Requirements:

§ 2.1051 Measurements required: Spurious emissions at antenna terminals.

The radio frequency voltage or powers generated within the equipment and appearing on a spurious frequency shall be checked at the equipment output terminals when properly loaded with a suitable artificial antenna. Curves or equivalent data shall show the magnitude of each harmonic and other spurious emission that can be detected when the equipment is operated under the conditions specified in § 2.1049 as appropriate. The magnitude of spurious emissions which are attenuated more than 20 dB below the permissible value need not be specified.

§ 24.238 Emission limitations for Broadband PCS equipment.

The rules in this section govern the spectral characteristics of emissions in the Broadband Personal Communications Service.

- (a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.
- (b) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

§ 27.53 Emission limits.

- (h) AWS emission limits
 - (1) General protection levels. Except as otherwise specified below, for operations 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 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.
 - (3) Measurement procedure.
 - (i) Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at

least 26 dB below the transmitter power.

- (ii) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the licensee's frequency block edges, both upper and lower, as the design permits.
- (iii) The measurements of emission power can be expressed in peak or average values, provided they are expressed in the same parameters as the transmitter power.

Test Procedures:

The measurement is performed in accordance with Section 5.7.2 and 5.7.3 of ANSI C63.26.

5.7.2 Basic guidelines for unwanted emissions conducted measurements

- a) For improvement of the accuracy in the measurement of the average power of a noise-like emission, a RBW narrower than the specified reference bandwidth can be used (generally limited to no less than 1% of the OBW), provided that a subsequent integration is performed over the full required measurement bandwidth. This integration should be performed using the spectrum analyzer's channel power, adjacent channel power, or band power functions. When using the integration method at the channel/block/band edge, the starting frequency of the integration shall be centered at one-half of the RBW away from the band/channel/block edge.

5.7.3 Out-of-band unwanted emissions measurements

- a) Set the spectrum analyzer center frequency to the block, band, or channel edge frequency.
- b) Set the span wide enough to capture the fundamental emission closest to the authorized block or band edge, and to include all modulation products that spill into the immediately adjacent frequency band. In some cases, it may be possible to set the center frequency and span so as to encompass the fundamental emission and the unwanted out-of-band (band-edge) emissions on either side of the authorized block, band, or channel. This can be accomplished with a single (slow) sweep, if adequate overload protection and sufficient dynamic range can be maintained.
- c) Set the number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$.
- d) Sweep time should be auto for peak detection. For rms detection the sweep time should be set as follows:
 - 1) If the device can be configured to transmit continuously (duty cycle $\geq 98\%$), set the (sweep time) $> (\text{number of points in sweep}) \times (\text{symbol period})$ (e.g., by a factor of $10 \times \text{symbol period} \times \text{number of points}$). Increasing the sweep time (i.e., slowing the sweep speed) will allow for averaging over multiple symbols
 - 2) If the device cannot transmit continuously (duty cycle $< 98\%$), a gated sweep shall be used when possible (i.e., gate triggered such that the analyzer only sweeps when the device is transmitting at full power), set the sweep time $> (\text{number of points in sweep}) \times (\text{symbol period})$ but the sweep time shall always be maintained at a value that is less than or equal to the minimum transmission time.
 - 3) If the device cannot be configured to transmit continuously (duty cycle $< 98\%$) and a freerunning sweep must be used, set the sweep time so that the averaging is performed over multiple on/off cycles by setting the sweep time $> (\text{number of points in sweep}) \times (\text{transmitter period})$ (i.e., the transmit on-time + the off-time). The spectrum analyzer readings shall subsequently be corrected by $[10 \log (1/\text{duty cycle})]$. This assumes that the transmission period and duty cycle is relatively constant (duty cycle variation $\leq$

$\pm 2\%$).

- 4) If the device cannot be configured to transmit continuously and a free-running sweep must be used, and if the transmissions exhibit a non-constant duty cycle (duty cycle variations $> \pm 2\%$), set the sweep time so that the averaging is performed over the on-period by setting the sweep time $> (\text{symbol period}) \times (\text{number of points})$, while also maintaining the sweep time $< (\text{transmitter on-time})$. The trace mode shall be set to max hold, since not every display point will be averaged only over just the on-time. Thus, multiple sweeps (e.g., 100) in maximum hold are necessary to ensure that the maximum power is measured.
- e) The test report shall include the plots of the measuring instrument display and the measured data.
- f) See Annex I for example emission mask plots.

Notes:

1. Due to MIMO operations, a correction has been added to the limit according to KDB 662911 D01 v02r01.
 - 4Tx MIMO correction: $10 \log(N_{\text{ANT}}) = 10 \log(4) = 6.02 \text{ dB}$
 - Corrected Measured Level = Measured Level + $10 \log(4)$
2. All blocks of operation were investigated, and the results for the worst case configuration are reported.
3. The results of the Out-of-band Unwanted Emissions test show a similar trend across all ports, so only the worst-case plot is attached.

Test Results:

Tabular Data of Out-of-band Unwanted Emissions

(4 Port) n2 5G NR 25 MHz 1 Carrier

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
0	QPSK	Low	Left	1 929.88	-35.53	-29.51	-13
			Right	1 955.13	-34.37	-28.35	
		High	Left	1 964.88	-34.36	-28.34	
			Right	1 990.13	-35.71	-29.69	
	16QAM	Low	Left	1 929.88	-34.29	-28.27	
			Right	1 955.13	-33.89	-27.87	
		High	Left	1 964.88	-34.91	-28.89	
			Right	1 990.13	-35.55	-29.53	
	64QAM	Low	Left	1 929.88	-34.78	-28.76	
			Right	1 955.13	-34.67	-28.65	
		High	Left	1 964.88	-34.30	-28.28	
			Right	1 990.13	-35.64	-29.62	
	256QAM	Low	Left	1 929.88	-34.32	-28.30	
			Right	1 955.13	-33.07	-27.05	
		High	Left	1 964.88	-34.75	-28.73	
			Right	1 990.13	-35.56	-29.54	
1	QPSK	Low	Left	1 929.88	-32.73	-26.71	
			Right	1 955.13	-32.13	-26.11	
		High	Left	1 964.88	-28.49	-22.47	
			Right	1 990.13	-28.27	-22.25	
	16QAM	Low	Left	1 929.88	-33.14	-27.12	
			Right	1 955.13	-32.22	-26.20	
		High	Left	1 964.88	-28.00	-21.98	
			Right	1 990.13	-27.78	-21.76	
	64QAM	Low	Left	1 929.88	-32.73	-26.71	
			Right	1 955.13	-31.97	-25.95	
		High	Left	1 964.88	-28.13	-22.11	
			Right	1 990.13	-27.98	-21.96	
	256QAM	Low	Left	1 929.88	-32.78	-26.76	
			Right	1 955.13	-31.53	-25.51	
		High	Left	1 964.88	-27.98	-21.96	
			Right	1 990.13	-27.96	-21.94	

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
2	QPSK	Low	Left	1 929.88	-35.82	-29.80	-13
			Right	1 955.13	-35.14	-29.12	
		High	Left	1 964.88	-33.97	-27.95	
			Right	1 990.13	-35.70	-29.68	
	16QAM	Low	Left	1 929.88	-36.52	-30.50	
			Right	1 955.13	-35.15	-29.13	
		High	Left	1 964.88	-35.36	-29.34	
			Right	1 990.13	-35.32	-29.30	
	64QAM	Low	Left	1 929.88	-36.36	-30.34	
			Right	1 955.13	-34.93	-28.91	
		High	Left	1 964.88	-35.72	-29.70	
			Right	1 990.13	-35.87	-29.85	
	256QAM	Low	Left	1 929.88	-36.12	-30.10	
			Right	1 955.13	-35.16	-29.14	
		High	Left	1 964.88	-35.55	-29.53	
			Right	1 990.13	-35.59	-29.57	
3	QPSK	Low	Left	1 929.88	-33.49	-27.47	-13
			Right	1 955.13	-32.63	-26.61	
		High	Left	1 964.88	-32.99	-26.97	
			Right	1 990.13	-33.96	-27.94	
	16QAM	Low	Left	1 929.88	-33.50	-27.48	
			Right	1 955.13	-32.54	-26.52	
		High	Left	1 964.88	-33.12	-27.10	
			Right	1 990.13	-33.64	-27.62	
	64QAM	Low	Left	1 929.88	-33.81	-27.79	
			Right	1 955.13	-32.87	-26.85	
		High	Left	1 964.88	-33.74	-27.72	
			Right	1 990.13	-33.77	-27.75	
	256QAM	Low	Left	1 929.88	-34.07	-28.05	
			Right	1 955.13	-32.45	-26.43	
		High	Left	1 964.88	-33.62	-27.60	
			Right	1 990.13	-33.57	-27.55	

Tabular Data of Out-of-band Unwanted Emissions
(4 Port) n66 5G NR 25 MHz 1 Carrier

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
0	QPSK	Low	Left	2 109.88	-33.91	-27.89	-13
			Right	2 135.13	-29.01	-22.99	
		High	Left	2 154.88	-32.58	-26.56	
			Right	2 180.13	-29.31	-23.29	
	16QAM	Low	Left	2 109.88	-35.26	-29.24	
			Right	2 135.13	-31.20	-25.18	
		High	Left	2 154.88	-30.24	-24.22	
			Right	2 180.13	-31.34	-25.32	
	64QAM	Low	Left	2 109.88	-33.80	-27.78	
			Right	2 135.13	-28.88	-22.86	
		High	Left	2 154.88	-31.05	-25.03	
			Right	2 180.13	-30.86	-24.84	
	256QAM	Low	Left	2 109.88	-28.91	-22.89	
			Right	2 135.13	-25.43	-19.41	
		High	Left	2 154.88	-27.19	-21.17	
			Right	2 180.13	-28.91	-22.89	
1	QPSK	Low	Left	2 109.88	-33.51	-27.49	-13
			Right	2 135.13	-29.42	-23.40	
		High	Left	2 154.88	-32.57	-26.55	
			Right	2 180.13	-32.23	-26.21	
	16QAM	Low	Left	2 109.88	-35.09	-29.07	
			Right	2 135.13	-29.74	-23.72	
		High	Left	2 154.88	-32.25	-26.23	
			Right	2 180.13	-32.52	-26.50	
	64QAM	Low	Left	2 109.88	-32.96	-26.94	
			Right	2 135.13	-29.23	-23.21	
		High	Left	2 154.88	-31.10	-25.08	
			Right	2 180.13	-32.03	-26.01	
	256QAM	Low	Left	2 109.88	-31.98	-25.96	
			Right	2 135.13	-28.06	-22.04	
		High	Left	2 154.88	-30.19	-24.17	
			Right	2 180.13	-30.53	-24.51	

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
2	QPSK	Low	Left	2 109.88	-39.45	-33.43	-13
			Right	2 135.13	-32.79	-26.77	
		High	Left	2 154.88	-33.49	-27.47	
			Right	2 180.13	-33.20	-27.18	
	16QAM	Low	Left	2 109.88	-38.79	-32.77	
			Right	2 135.13	-32.19	-26.17	
		High	Left	2 154.88	-33.33	-27.31	
			Right	2 180.13	-32.77	-26.75	
	64QAM	Low	Left	2 109.88	-37.89	-31.87	
			Right	2 135.13	-30.71	-24.69	
		High	Left	2 154.88	-33.72	-27.70	
			Right	2 180.13	-32.89	-26.87	
	256QAM	Low	Left	2 109.88	-35.74	-29.72	
			Right	2 135.13	-29.99	-23.97	
		High	Left	2 154.88	-32.59	-26.57	
			Right	2 180.13	-33.33	-27.31	
3	QPSK	Low	Left	2 109.88	-37.40	-31.38	-13
			Right	2 135.13	-31.24	-25.22	
		High	Left	2 154.88	-32.95	-26.93	
			Right	2 180.13	-32.72	-26.70	
	16QAM	Low	Left	2 109.88	-37.64	-31.62	
			Right	2 135.13	-31.53	-25.51	
		High	Left	2 154.88	-31.92	-25.90	
			Right	2 180.13	-32.24	-26.22	
	64QAM	Low	Left	2 109.88	-37.16	-31.14	
			Right	2 135.13	-30.74	-24.72	
		High	Left	2 154.88	-32.71	-26.69	
			Right	2 180.13	-32.49	-26.47	
	256QAM	Low	Left	2 109.88	-35.90	-29.88	
			Right	2 135.13	-30.73	-24.71	
		High	Left	2 154.88	-32.60	-26.58	
			Right	2 180.13	-32.11	-26.09	

(4 Port) n66 5G NR 30 MHz 1 Carrier

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
0	QPSK	Low	Left	2 109.85	-33.01	-26.99	-13
			Right	2 140.15	-28.47	-22.45	
		High	Left	2 149.85	-26.97	-20.95	
			Right	2 180.15	-27.82	-21.80	
	16QAM	Low	Left	2 109.85	-32.32	-26.30	
			Right	2 140.15	-27.24	-21.22	
		High	Left	2 149.85	-29.01	-22.99	
			Right	2 180.15	-29.13	-23.11	
	64QAM	Low	Left	2 109.85	-32.32	-26.30	
			Right	2 140.15	-27.40	-21.38	
		High	Left	2 149.85	-27.76	-21.74	
			Right	2 180.15	-27.54	-21.52	
	256QAM	Low	Left	2 109.85	-32.00	-25.98	
			Right	2 140.15	-27.28	-21.26	
		High	Left	2 149.85	-29.71	-23.69	
			Right	2 180.15	-29.77	-23.75	
1	QPSK	Low	Left	2 109.85	-31.26	-25.24	
			Right	2 140.15	-26.59	-20.57	
		High	Left	2 149.85	-28.84	-22.82	
			Right	2 180.15	-28.68	-22.66	
	16QAM	Low	Left	2 109.85	-31.62	-25.60	
			Right	2 140.15	-26.95	-20.93	
		High	Left	2 149.85	-27.72	-21.70	
			Right	2 180.15	-28.72	-22.70	
	64QAM	Low	Left	2 109.85	-31.56	-25.54	
			Right	2 140.15	-26.62	-20.60	
		High	Left	2 149.85	-29.17	-23.15	
			Right	2 180.15	-29.25	-23.23	
	256QAM	Low	Left	2 109.85	-31.86	-25.84	
			Right	2 140.15	-26.90	-20.88	
		High	Left	2 149.85	-29.24	-23.22	
			Right	2 180.15	-29.11	-23.09	

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
2	QPSK	Low	Left	2 109.85	-35.72	-29.70	-13
			Right	2 140.15	-29.47	-23.45	
		High	Left	2 149.85	-29.28	-23.26	
			Right	2 180.15	-29.47	-23.45	
	16QAM	Low	Left	2 109.85	-34.91	-28.89	
			Right	2 140.15	-28.15	-22.13	
		High	Left	2 149.85	-30.25	-24.23	
			Right	2 180.15	-30.71	-24.69	
	64QAM	Low	Left	2 109.85	-34.80	-28.78	
			Right	2 140.15	-28.47	-22.45	
		High	Left	2 149.85	-30.27	-24.25	
			Right	2 180.15	-29.78	-23.76	
	256QAM	Low	Left	2 109.85	-35.14	-29.12	
			Right	2 140.15	-28.42	-22.40	
		High	Left	2 149.85	-30.10	-24.08	
			Right	2 180.15	-29.77	-23.75	
3	QPSK	Low	Left	2 109.85	-31.67	-25.65	-13
			Right	2 140.15	-27.67	-21.65	
		High	Left	2 149.85	-27.24	-21.22	
			Right	2 180.15	-27.99	-21.97	
	16QAM	Low	Left	2 109.85	-32.81	-26.79	
			Right	2 140.15	-28.27	-22.25	
		High	Left	2 149.85	-28.89	-22.87	
			Right	2 180.15	-29.31	-23.29	
	64QAM	Low	Left	2 109.85	-33.64	-27.62	
			Right	2 140.15	-28.21	-22.19	
		High	Left	2 149.85	-28.93	-22.91	
			Right	2 180.15	-28.89	-22.87	
	256QAM	Low	Left	2 109.85	-32.85	-26.83	
			Right	2 140.15	-27.52	-21.50	
		High	Left	2 149.85	-29.12	-23.10	
			Right	2 180.15	-28.88	-22.86	

Tabular Data of Contiguous Out-of-band Unwanted Emissions
(4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier]

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
0	QPSK	Low	Left	2 109.98	-33.76	-27.74	-13
			Right	2 140.13	-24.33	-18.31	
		High	Left	2 149.98	-30.55	-24.53	
			Right	2 180.13	-26.02	-20.00	
	16QAM	Low	Left	2 109.98	-35.79	-29.77	
			Right	2 140.13	-32.14	-26.12	
		High	Left	2 149.98	-31.98	-25.96	
			Right	2 180.13	-32.11	-26.09	
	64QAM	Low	Left	2 109.98	-35.46	-29.44	
			Right	2 140.13	-31.41	-25.39	
		High	Left	2 149.98	-28.21	-22.19	
			Right	2 180.13	-23.65	-17.63	
	256QAM	Low	Left	2 109.98	-35.42	-29.40	
			Right	2 140.13	-29.90	-23.88	
		High	Left	2 149.98	-30.27	-24.25	
			Right	2 180.13	-23.44	-17.42	
1	QPSK	Low	Left	2 109.98	-35.17	-29.15	
			Right	2 140.13	-30.14	-24.12	
		High	Left	2 149.98	-32.01	-25.99	
			Right	2 180.13	-31.02	-25.00	
	16QAM	Low	Left	2 109.98	-35.06	-29.04	
			Right	2 140.13	-29.75	-23.73	
		High	Left	2 149.98	-32.03	-26.01	
			Right	2 180.13	-32.85	-26.83	
	64QAM	Low	Left	2 109.98	-34.58	-28.56	
			Right	2 140.13	-29.05	-23.03	
		High	Left	2 149.98	-28.82	-22.80	
			Right	2 180.13	-27.21	-21.19	
	256QAM	Low	Left	2 109.98	-34.99	-28.97	
			Right	2 140.13	-29.47	-23.45	
		High	Left	2 149.98	-26.44	-20.42	
			Right	2 180.13	-24.99	-18.97	

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
2	QPSK	Low	Left	2 109.98	-36.78	-30.76	-13
			Right	2 140.13	-31.75	-25.73	
		High	Left	2 149.98	-32.96	-26.94	
			Right	2 180.13	-31.97	-25.95	
	16QAM	Low	Left	2 109.98	-36.65	-30.63	
			Right	2 140.13	-31.29	-25.27	
		High	Left	2 149.98	-31.12	-25.10	
			Right	2 180.13	-24.54	-18.52	
	64QAM	Low	Left	2 109.98	-37.45	-31.43	
			Right	2 140.13	-32.64	-26.62	
		High	Left	2 149.98	-32.50	-26.48	
			Right	2 180.13	-29.68	-23.66	
	256QAM	Low	Left	2 109.98	-36.42	-30.40	
			Right	2 140.13	-29.66	-23.64	
		High	Left	2 149.98	-28.72	-22.70	
			Right	2 180.13	-22.62	-16.60	
3	QPSK	Low	Left	2 109.98	-35.97	-29.95	-13
			Right	2 140.13	-31.25	-25.23	
		High	Left	2 149.98	-30.25	-24.23	
			Right	2 180.13	-27.05	-21.03	
	16QAM	Low	Left	2 109.98	-35.75	-29.73	
			Right	2 140.13	-32.48	-26.46	
		High	Left	2 149.98	-30.24	-24.22	
			Right	2 180.13	-29.67	-23.65	
	64QAM	Low	Left	2 109.98	-35.61	-29.59	
			Right	2 140.13	-32.22	-26.20	
		High	Left	2 149.98	-30.75	-24.73	
			Right	2 180.13	-29.06	-23.04	
	256QAM	Low	Left	2 109.98	-34.80	-28.78	
			Right	2 140.13	-29.32	-23.30	
		High	Left	2 149.98	-30.47	-24.45	
			Right	2 180.13	-31.55	-25.53	

(4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier]

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
0	QPSK	Low	Left	2 109.98	-36.37	-30.35	-13
			Right	2 145.15	-30.11	-24.09	
		High	Left	2 144.98	-33.15	-27.13	
			Right	2 180.15	-29.79	-23.77	
	16QAM	Low	Left	2 109.98	-36.41	-30.39	
			Right	2 145.15	-28.91	-22.89	
		High	Left	2 144.98	-32.35	-26.33	
			Right	2 180.15	-26.35	-20.33	
	64QAM	Low	Left	2 109.98	-36.29	-30.27	
			Right	2 145.15	-29.70	-23.68	
		High	Left	2 144.98	-32.20	-26.18	
			Right	2 180.15	-26.58	-20.56	
	256QAM	Low	Left	2 109.98	-33.79	-27.77	
			Right	2 145.15	-23.77	-17.75	
		High	Left	2 144.98	-33.69	-27.67	
			Right	2 180.15	-31.23	-25.21	
1	QPSK	Low	Left	2 109.98	-36.02	-30.00	
			Right	2 145.15	-28.35	-22.33	
		High	Left	2 144.98	-32.85	-26.83	
			Right	2 180.15	-29.58	-23.56	
	16QAM	Low	Left	2 109.98	-37.31	-31.29	
			Right	2 145.15	-29.10	-23.08	
		High	Left	2 144.98	-34.37	-28.35	
			Right	2 180.15	-29.39	-23.37	
	64QAM	Low	Left	2 109.98	-36.22	-30.20	
			Right	2 145.15	-28.44	-22.42	
		High	Left	2 144.98	-29.35	-23.33	
			Right	2 180.15	-24.27	-18.25	
	256QAM	Low	Left	2 109.98	-35.03	-29.01	
			Right	2 145.15	-26.59	-20.57	
		High	Left	2 144.98	-33.49	-27.47	
			Right	2 180.15	-29.95	-23.93	

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
2	QPSK	Low	Left	2 109.98	-36.95	-30.93	-13
			Right	2 145.15	-28.62	-22.60	
		High	Left	2 144.98	-32.97	-26.95	
			Right	2 180.15	-30.16	-24.14	
	16QAM	Low	Left	2 109.98	-37.12	-31.10	
			Right	2 145.15	-28.85	-22.83	
		High	Left	2 144.98	-31.77	-25.75	
			Right	2 180.15	-28.65	-22.63	
	64QAM	Low	Left	2 109.98	-37.15	-31.13	
			Right	2 145.15	-28.80	-22.78	
		High	Left	2 144.98	-31.28	-25.26	
			Right	2 180.15	-28.57	-22.55	
	256QAM	Low	Left	2 109.98	-35.55	-29.53	
			Right	2 145.15	-27.37	-21.35	
		High	Left	2 144.98	-33.56	-27.54	
			Right	2 180.15	-30.39	-24.37	
3	QPSK	Low	Left	2 109.98	-36.66	-30.64	
			Right	2 145.15	-30.38	-24.36	
		High	Left	2 144.98	-32.38	-26.36	
			Right	2 180.15	-29.56	-23.54	
	16QAM	Low	Left	2 109.98	-36.69	-30.67	
			Right	2 145.15	-29.18	-23.16	
		High	Left	2 144.98	-31.67	-25.65	
			Right	2 180.15	-27.34	-21.32	
	64QAM	Low	Left	2 109.98	-36.71	-30.69	
			Right	2 145.15	-29.92	-23.90	
		High	Left	2 144.98	-32.11	-26.09	
			Right	2 180.15	-29.15	-23.13	
	256QAM	Low	Left	2 109.98	-36.16	-30.14	
			Right	2 145.15	-29.81	-23.79	
		High	Left	2 144.98	-32.28	-26.26	
			Right	2 180.15	-30.60	-24.58	

(4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier]

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
0	QPSK	Low	Left	2 109.98	-34.99	-28.97	-13
			Right	2 140.13	-30.05	-24.03	
		High	Left	2 149.98	-31.72	-25.70	
			Right	2 180.13	-31.23	-25.21	
	16QAM	Low	Left	2 109.98	-34.67	-28.65	
			Right	2 140.13	-27.62	-21.60	
		High	Left	2 149.98	-31.52	-25.50	
			Right	2 180.13	-29.79	-23.77	
	64QAM	Low	Left	2 109.98	-35.45	-29.43	
			Right	2 140.13	-30.83	-24.81	
		High	Left	2 149.98	-31.30	-25.28	
			Right	2 180.13	-32.14	-26.12	
	256QAM	Low	Left	2 109.98	-34.67	-28.65	
			Right	2 140.13	-27.36	-21.34	
		High	Left	2 149.98	-32.09	-26.07	
			Right	2 180.13	-30.87	-24.85	
1	QPSK	Low	Left	2 109.98	-35.28	-29.26	
			Right	2 140.13	-28.79	-22.77	
		High	Left	2 149.98	-32.04	-26.02	
			Right	2 180.13	-33.16	-27.14	
	16QAM	Low	Left	2 109.98	-33.86	-27.84	
			Right	2 140.13	-25.13	-19.11	
		High	Left	2 149.98	-32.15	-26.13	
			Right	2 180.13	-30.54	-24.52	
	64QAM	Low	Left	2 109.98	-35.37	-29.35	
			Right	2 140.13	-29.06	-23.04	
		High	Left	2 149.98	-31.98	-25.96	
			Right	2 180.13	-30.75	-24.73	
	256QAM	Low	Left	2 109.98	-34.91	-28.89	
			Right	2 140.13	-27.88	-21.86	
		High	Left	2 149.98	-31.92	-25.90	
			Right	2 180.13	-30.51	-24.49	

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
2	QPSK	Low	Left	2 109.98	-36.67	-30.65	-13
			Right	2 140.13	-33.47	-27.45	
		High	Left	2 149.98	-32.65	-26.63	
			Right	2 180.13	-34.23	-28.21	
	16QAM	Low	Left	2 109.98	-36.94	-30.92	
			Right	2 140.13	-32.91	-26.89	
		High	Left	2 149.98	-31.90	-25.88	
			Right	2 180.13	-29.83	-23.81	
	64QAM	Low	Left	2 109.98	-36.61	-30.59	
			Right	2 140.13	-32.30	-26.28	
		High	Left	2 149.98	-32.54	-26.52	
			Right	2 180.13	-33.38	-27.36	
	256QAM	Low	Left	2 109.98	-36.80	-30.78	
			Right	2 140.13	-32.48	-26.46	
		High	Left	2 149.98	-31.90	-25.88	
			Right	2 180.13	-33.57	-27.55	
3	QPSK	Low	Left	2 109.98	-35.65	-29.63	-13
			Right	2 140.13	-31.79	-25.77	
		High	Left	2 149.98	-31.25	-25.23	
			Right	2 180.13	-32.45	-26.43	
	16QAM	Low	Left	2 109.98	-35.75	-29.73	
			Right	2 140.13	-32.06	-26.04	
		High	Left	2 149.98	-31.40	-25.38	
			Right	2 180.13	-32.26	-26.24	
	64QAM	Low	Left	2 109.98	-35.58	-29.56	
			Right	2 140.13	-31.80	-25.78	
		High	Left	2 149.98	-31.25	-25.23	
			Right	2 180.13	-32.42	-26.40	
	256QAM	Low	Left	2 109.98	-35.71	-29.69	
			Right	2 140.13	-32.11	-26.09	
		High	Left	2 149.98	-31.35	-25.33	
			Right	2 180.13	-31.70	-25.68	

(4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier]

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
0	QPSK	Low	Left	2 109.98	-37.02	-31.00	-13
			Right	2 145.15	-28.84	-22.82	
		High	Left	2 144.98	-32.03	-26.01	
			Right	2 180.15	-28.60	-22.58	
	16QAM	Low	Left	2 109.98	-36.57	-30.55	
			Right	2 145.15	-30.40	-24.38	
		High	Left	2 144.98	-33.53	-27.51	
			Right	2 180.15	-28.37	-22.35	
	64QAM	Low	Left	2 109.98	-36.44	-30.42	
			Right	2 145.15	-29.40	-23.38	
		High	Left	2 144.98	-33.37	-27.35	
			Right	2 180.15	-30.06	-24.04	
	256QAM	Low	Left	2 109.98	-36.97	-30.95	
			Right	2 145.15	-30.21	-24.19	
		High	Left	2 144.98	-32.07	-26.05	
			Right	2 180.15	-28.98	-22.96	
1	QPSK	Low	Left	2 109.98	-36.37	-30.35	
			Right	2 145.15	-28.97	-22.95	
		High	Left	2 144.98	-33.34	-27.32	
			Right	2 180.15	-29.20	-23.18	
	16QAM	Low	Left	2 109.98	-36.47	-30.45	
			Right	2 145.15	-27.68	-21.66	
		High	Left	2 144.98	-33.33	-27.31	
			Right	2 180.15	-26.08	-20.06	
	64QAM	Low	Left	2 109.98	-36.41	-30.39	
			Right	2 145.15	-27.20	-21.18	
		High	Left	2 144.98	-33.24	-27.22	
			Right	2 180.15	-30.63	-24.61	
	256QAM	Low	Left	2 109.98	-36.92	-30.90	
			Right	2 145.15	-28.84	-22.82	
		High	Left	2 144.98	-33.09	-27.07	
			Right	2 180.15	-28.88	-22.86	

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
2	QPSK	Low	Left	2 109.98	-37.97	-31.95	-13
			Right	2 145.15	-31.40	-25.38	
		High	Left	2 144.98	-34.47	-28.45	
			Right	2 180.15	-31.81	-25.79	
	16QAM	Low	Left	2 109.98	-37.89	-31.87	
			Right	2 145.15	-31.63	-25.61	
		High	Left	2 144.98	-33.99	-27.97	
			Right	2 180.15	-31.80	-25.78	
	64QAM	Low	Left	2 109.98	-37.76	-31.74	
			Right	2 145.15	-30.96	-24.94	
		High	Left	2 144.98	-33.58	-27.56	
			Right	2 180.15	-31.41	-25.39	
	256QAM	Low	Left	2 109.98	-37.77	-31.75	
			Right	2 145.15	-31.38	-25.36	
		High	Left	2 144.98	-32.98	-26.96	
			Right	2 180.15	-30.54	-24.52	
3	QPSK	Low	Left	2 109.98	-36.93	-30.91	-13
			Right	2 145.15	-30.54	-24.52	
		High	Left	2 144.98	-32.79	-26.77	
			Right	2 180.15	-30.53	-24.51	
	16QAM	Low	Left	2 109.98	-36.62	-30.60	
			Right	2 145.15	-30.22	-24.20	
		High	Left	2 144.98	-32.86	-26.84	
			Right	2 180.15	-30.23	-24.21	
	64QAM	Low	Left	2 109.98	-37.04	-31.02	
			Right	2 145.15	-29.81	-23.79	
		High	Left	2 144.98	-32.21	-26.19	
			Right	2 180.15	-29.76	-23.74	
	256QAM	Low	Left	2 109.98	-36.76	-30.74	
			Right	2 145.15	-29.82	-23.80	
		High	Left	2 144.98	-32.66	-26.64	
			Right	2 180.15	-30.26	-24.24	

(4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier]

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
0	QPSK	Low	Left	2 109.95	-31.22	-25.20	-13
			Right	2 145.13	-25.20	-19.18	
		High	Left	2 144.95	-30.90	-24.88	
			Right	2 180.13	-29.86	-23.84	
	16QAM	Low	Left	2 109.95	-34.96	-28.94	
			Right	2 145.13	-30.89	-24.87	
		High	Left	2 144.95	-31.34	-25.32	
			Right	2 180.13	-29.42	-23.40	
	64QAM	Low	Left	2 109.95	-33.97	-27.95	
			Right	2 145.13	-28.13	-22.11	
		High	Left	2 144.95	-30.53	-24.51	
			Right	2 180.13	-30.27	-24.25	
	256QAM	Low	Left	2 109.95	-35.69	-29.67	
			Right	2 145.13	-32.06	-26.04	
		High	Left	2 144.95	-31.72	-25.70	
			Right	2 180.13	-31.17	-25.15	
1	QPSK	Low	Left	2 109.95	-32.94	-26.92	
			Right	2 145.13	-27.12	-21.10	
		High	Left	2 144.95	-30.81	-24.79	
			Right	2 180.13	-30.29	-24.27	
	16QAM	Low	Left	2 109.95	-34.20	-28.18	
			Right	2 145.13	-27.84	-21.82	
		High	Left	2 144.95	-30.48	-24.46	
			Right	2 180.13	-30.93	-24.91	
	64QAM	Low	Left	2 109.95	-35.03	-29.01	
			Right	2 145.13	-29.42	-23.40	
		High	Left	2 144.95	-31.12	-25.10	
			Right	2 180.13	-31.26	-25.24	
	256QAM	Low	Left	2 109.95	-34.93	-28.91	
			Right	2 145.13	-29.68	-23.66	
		High	Left	2 144.95	-31.87	-25.85	
			Right	2 180.13	-31.39	-25.37	

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
2	QPSK	Low	Left	2 109.95	-34.86	-28.84	-13
			Right	2 145.13	-23.61	-17.59	
		High	Left	2 144.95	-32.55	-26.53	
			Right	2 180.13	-33.02	-27.00	
	16QAM	Low	Left	2 109.95	-34.53	-28.51	
			Right	2 145.13	-22.17	-16.15	
		High	Left	2 144.95	-30.52	-24.50	
			Right	2 180.13	-29.34	-23.32	
	64QAM	Low	Left	2 109.95	-33.10	-27.08	
			Right	2 145.13	-26.16	-20.14	
		High	Left	2 144.95	-29.89	-23.87	
			Right	2 180.13	-29.79	-23.77	
	256QAM	Low	Left	2 109.95	-35.62	-29.60	
			Right	2 145.13	-28.68	-22.66	
		High	Left	2 144.95	-28.70	-22.68	
			Right	2 180.13	-29.50	-23.48	
3	QPSK	Low	Left	2 109.95	-32.72	-26.70	-13
			Right	2 145.13	-24.16	-18.14	
		High	Left	2 144.95	-31.58	-25.56	
			Right	2 180.13	-31.43	-25.41	
	16QAM	Low	Left	2 109.95	-35.55	-29.53	
			Right	2 145.13	-31.37	-25.35	
		High	Left	2 144.95	-30.83	-24.81	
			Right	2 180.13	-31.74	-25.72	
	64QAM	Low	Left	2 109.95	-33.57	-27.55	
			Right	2 145.13	-26.59	-20.57	
		High	Left	2 144.95	-29.59	-23.57	
			Right	2 180.13	-28.53	-22.51	
	256QAM	Low	Left	2 109.95	-34.68	-28.66	
			Right	2 145.13	-26.93	-20.91	
		High	Left	2 144.95	-31.03	-25.01	
			Right	2 180.13	-32.34	-26.32	

Tabular Data of Non-Contiguous Out-of-band Unwanted Emissions
(4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier]

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
0	QPSK	Low	Left	2 109.98	-33.58	-27.56	-13
			Right	2 115.03	-29.32	-23.30	
		High	Left	2 154.88	-30.68	-24.66	
			Right	2 180.13	-31.01	-24.99	
	16QAM	Low	Left	2 109.98	-33.99	-27.97	
			Right	2 115.03	-30.34	-24.32	
		High	Left	2 154.88	-30.05	-24.03	
			Right	2 180.13	-31.17	-25.15	
	64QAM	Low	Left	2 109.98	-33.79	-27.77	
			Right	2 115.03	-29.30	-23.28	
		High	Left	2 154.88	-30.43	-24.41	
			Right	2 180.13	-31.06	-25.04	
	256QAM	Low	Left	2 109.98	-34.12	-28.10	
			Right	2 115.03	-29.53	-23.51	
		High	Left	2 154.88	-28.93	-22.91	
			Right	2 180.13	-29.88	-23.86	
1	QPSK	Low	Left	2 109.98	-33.90	-27.88	
			Right	2 115.03	-29.84	-23.82	
		High	Left	2 154.88	-30.48	-24.46	
			Right	2 180.13	-30.32	-24.30	
	16QAM	Low	Left	2 109.98	-33.76	-27.74	
			Right	2 115.03	-29.91	-23.89	
		High	Left	2 154.88	-30.24	-24.22	
			Right	2 180.13	-30.35	-24.33	
	64QAM	Low	Left	2 109.98	-33.76	-27.74	
			Right	2 115.03	-29.56	-23.54	
		High	Left	2 154.88	-30.43	-24.41	
			Right	2 180.13	-30.61	-24.59	
	256QAM	Low	Left	2 109.98	-34.09	-28.07	
			Right	2 115.03	-29.71	-23.69	
		High	Left	2 154.88	-30.26	-24.24	
			Right	2 180.13	-30.07	-24.05	

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
2	QPSK	Low	Left	2 109.98	-34.71	-28.69	-13
			Right	2 115.03	-29.72	-23.70	
		High	Left	2 154.88	-29.86	-23.84	
			Right	2 180.13	-30.55	-24.53	
	16QAM	Low	Left	2 109.98	-36.03	-30.01	
			Right	2 115.03	-30.66	-24.64	
		High	Left	2 154.88	-32.54	-26.52	
			Right	2 180.13	-32.42	-26.40	
	64QAM	Low	Left	2 109.98	-34.48	-28.46	
			Right	2 115.03	-30.08	-24.06	
		High	Left	2 154.88	-26.35	-20.33	
			Right	2 180.13	-25.93	-19.91	
	256QAM	Low	Left	2 109.98	-33.83	-27.81	
			Right	2 115.03	-28.24	-22.22	
		High	Left	2 154.88	-22.79	-16.77	
			Right	2 180.13	-25.66	-19.64	
3	QPSK	Low	Left	2 109.98	-33.79	-27.77	
			Right	2 115.03	-29.11	-23.09	
		High	Left	2 154.88	-30.03	-24.01	
			Right	2 180.13	-30.77	-24.75	
	16QAM	Low	Left	2 109.98	-34.57	-28.55	
			Right	2 115.03	-29.74	-23.72	
		High	Left	2 154.88	-31.25	-25.23	
			Right	2 180.13	-31.10	-25.08	
	64QAM	Low	Left	2 109.98	-34.16	-28.14	
			Right	2 115.03	-29.33	-23.31	
		High	Left	2 154.88	-29.93	-23.91	
			Right	2 180.13	-30.02	-24.00	
	256QAM	Low	Left	2 109.98	-34.14	-28.12	
			Right	2 115.03	-29.26	-23.24	
		High	Left	2 154.88	-29.45	-23.43	
			Right	2 180.13	-31.47	-25.45	

(4 Port) B66 LTE 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier]

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
0	QPSK	Low	Left	2 109.98	-34.99	-28.97	-13
			Right	2 115.03	-30.54	-24.52	
		High	Left	2 149.85	-27.49	-21.47	
			Right	2 180.15	-28.73	-22.71	
	16QAM	Low	Left	2 109.98	-35.39	-29.37	
			Right	2 115.03	-31.08	-25.06	
		High	Left	2 149.85	-29.25	-23.23	
			Right	2 180.15	-28.91	-22.89	
	64QAM	Low	Left	2 109.98	-34.56	-28.54	
			Right	2 115.03	-30.76	-24.74	
		High	Left	2 149.85	-28.40	-22.38	
			Right	2 180.15	-28.72	-22.70	
	256QAM	Low	Left	2 109.98	-35.10	-29.08	
			Right	2 115.03	-31.12	-25.10	
		High	Left	2 149.85	-28.06	-22.04	
			Right	2 180.15	-28.76	-22.74	
1	QPSK	Low	Left	2 109.98	-35.77	-29.75	
			Right	2 115.03	-31.20	-25.18	
		High	Left	2 149.85	-29.00	-22.98	
			Right	2 180.15	-29.40	-23.38	
	16QAM	Low	Left	2 109.98	-35.87	-29.85	
			Right	2 115.03	-31.63	-25.61	
		High	Left	2 149.85	-28.94	-22.92	
			Right	2 180.15	-29.29	-23.27	
	64QAM	Low	Left	2 109.98	-35.40	-29.38	
			Right	2 115.03	-31.20	-25.18	
		High	Left	2 149.85	-28.39	-22.37	
			Right	2 180.15	-28.74	-22.72	
	256QAM	Low	Left	2 109.98	-35.58	-29.56	
			Right	2 115.03	-31.43	-25.41	
		High	Left	2 149.85	-27.82	-21.80	
			Right	2 180.15	-28.50	-22.48	

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
2	QPSK	Low	Left	2 109.98	-36.96	-30.94	-13
			Right	2 115.03	-31.25	-25.23	
		High	Left	2 149.85	-29.43	-23.41	
			Right	2 180.15	-30.14	-24.12	
	16QAM	Low	Left	2 109.98	-36.96	-30.94	
			Right	2 115.03	-31.38	-25.36	
		High	Left	2 149.85	-27.98	-21.96	
			Right	2 180.15	-29.06	-23.04	
	64QAM	Low	Left	2 109.98	-36.50	-30.48	
			Right	2 115.03	-29.89	-23.87	
		High	Left	2 149.85	-25.18	-19.16	
			Right	2 180.15	-25.54	-19.52	
	256QAM	Low	Left	2 109.98	-37.59	-31.57	
			Right	2 115.03	-31.60	-25.58	
		High	Left	2 149.85	-28.57	-22.55	
			Right	2 180.15	-29.19	-23.17	
3	QPSK	Low	Left	2 109.98	-34.77	-28.75	-13
			Right	2 115.03	-30.03	-24.01	
		High	Left	2 149.85	-28.49	-22.47	
			Right	2 180.15	-28.99	-22.97	
	16QAM	Low	Left	2 109.98	-35.21	-29.19	
			Right	2 115.03	-30.59	-24.57	
		High	Left	2 149.85	-27.75	-21.73	
			Right	2 180.15	-28.78	-22.76	
	64QAM	Low	Left	2 109.98	-35.28	-29.26	
			Right	2 115.03	-30.54	-24.52	
		High	Left	2 149.85	-26.80	-20.78	
			Right	2 180.15	-27.11	-21.09	
	256QAM	Low	Left	2 109.98	-35.67	-29.65	
			Right	2 115.03	-31.08	-25.06	
		High	Left	2 149.85	-28.35	-22.33	
			Right	2 180.15	-28.61	-22.59	

(4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier]

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
0	QPSK	Low	Left	2 109.98	-33.99	-27.97	-13
			Right	2 115.03	-29.42	-23.40	
		High	Left	2 154.88	-31.28	-25.26	
			Right	2 180.13	-30.66	-24.64	
	16QAM	Low	Left	2 109.98	-33.54	-27.52	
			Right	2 115.03	-30.03	-24.01	
		High	Left	2 154.88	-31.11	-25.09	
			Right	2 180.13	-30.62	-24.60	
	64QAM	Low	Left	2 109.98	-33.87	-27.85	
			Right	2 115.03	-29.62	-23.60	
		High	Left	2 154.88	-30.28	-24.26	
			Right	2 180.13	-29.73	-23.71	
	256QAM	Low	Left	2 109.98	-33.97	-27.95	
			Right	2 115.03	-30.10	-24.08	
		High	Left	2 154.88	-30.72	-24.70	
			Right	2 180.13	-29.65	-23.63	
1	QPSK	Low	Left	2 109.98	-33.92	-27.90	
			Right	2 115.03	-29.73	-23.71	
		High	Left	2 154.88	-31.41	-25.39	
			Right	2 180.13	-31.11	-25.09	
	16QAM	Low	Left	2 109.98	-33.66	-27.64	
			Right	2 115.03	-30.19	-24.17	
		High	Left	2 154.88	-29.34	-23.32	
			Right	2 180.13	-28.89	-22.87	
	64QAM	Low	Left	2 109.98	-34.13	-28.11	
			Right	2 115.03	-29.49	-23.47	
		High	Left	2 154.88	-31.15	-25.13	
			Right	2 180.13	-30.66	-24.64	
	256QAM	Low	Left	2 109.98	-34.11	-28.09	
			Right	2 115.03	-30.21	-24.19	
		High	Left	2 154.88	-30.10	-24.08	
			Right	2 180.13	-30.56	-24.54	

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
2	QPSK	Low	Left	2 109.98	-35.21	-29.19	-13
			Right	2 115.03	-29.67	-23.65	
		High	Left	2 154.88	-32.64	-26.62	
			Right	2 180.13	-32.43	-26.41	
	16QAM	Low	Left	2 109.98	-35.14	-29.12	
			Right	2 115.03	-30.34	-24.32	
		High	Left	2 154.88	-31.54	-25.52	
			Right	2 180.13	-31.79	-25.77	
	64QAM	Low	Left	2 109.98	-35.17	-29.15	
			Right	2 115.03	-29.54	-23.52	
		High	Left	2 154.88	-32.35	-26.33	
			Right	2 180.13	-32.57	-26.55	
	256QAM	Low	Left	2 109.98	-35.92	-29.90	
			Right	2 115.03	-30.54	-24.52	
		High	Left	2 154.88	-32.64	-26.62	
			Right	2 180.13	-32.06	-26.04	
3	QPSK	Low	Left	2 109.98	-34.27	-28.25	-13
			Right	2 115.03	-29.29	-23.27	
		High	Left	2 154.88	-31.70	-25.68	
			Right	2 180.13	-31.12	-25.10	
	16QAM	Low	Left	2 109.98	-33.88	-27.86	
			Right	2 115.03	-29.40	-23.38	
		High	Left	2 154.88	-30.93	-24.91	
			Right	2 180.13	-30.70	-24.68	
	64QAM	Low	Left	2 109.98	-34.29	-28.27	
			Right	2 115.03	-29.19	-23.17	
		High	Left	2 154.88	-31.12	-25.10	
			Right	2 180.13	-30.69	-24.67	
	256QAM	Low	Left	2 109.98	-34.43	-28.41	
			Right	2 115.03	-29.84	-23.82	
		High	Left	2 154.88	-30.76	-24.74	
			Right	2 180.13	-31.01	-24.99	

(4 Port) n66 5G NR 5 MHz 1 Carrier + n66 5G NR 30 MHz 1 Carrier [2 Carrier]

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
0	QPSK	Low	Left	2 109.98	-34.90	-28.88	-13
			Right	2 115.03	-31.45	-25.43	
		High	Left	2 149.85	-28.84	-22.82	
			Right	2 180.15	-28.95	-22.93	
	16QAM	Low	Left	2 109.98	-35.47	-29.45	
			Right	2 115.03	-31.57	-25.55	
		High	Left	2 149.85	-28.01	-21.99	
			Right	2 180.15	-28.16	-22.14	
	64QAM	Low	Left	2 109.98	-34.41	-28.39	
			Right	2 115.03	-30.81	-24.79	
		High	Left	2 149.85	-28.98	-22.96	
			Right	2 180.15	-29.05	-23.03	
	256QAM	Low	Left	2 109.98	-34.87	-28.85	
			Right	2 115.03	-30.63	-24.61	
		High	Left	2 149.85	-28.63	-22.61	
			Right	2 180.15	-29.16	-23.14	
1	QPSK	Low	Left	2 109.98	-35.28	-29.26	
			Right	2 115.03	-31.56	-25.54	
		High	Left	2 149.85	-28.35	-22.33	
			Right	2 180.15	-28.81	-22.79	
	16QAM	Low	Left	2 109.98	-35.58	-29.56	
			Right	2 115.03	-31.33	-25.31	
		High	Left	2 149.85	-28.87	-22.85	
			Right	2 180.15	-28.40	-22.38	
	64QAM	Low	Left	2 109.98	-34.84	-28.82	
			Right	2 115.03	-31.13	-25.11	
		High	Left	2 149.85	-28.14	-22.12	
			Right	2 180.15	-29.14	-23.12	
	256QAM	Low	Left	2 109.98	-35.31	-29.29	
			Right	2 115.03	-30.81	-24.79	
		High	Left	2 149.85	-28.37	-22.35	
			Right	2 180.15	-28.88	-22.86	

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
2	QPSK	Low	Left	2 109.98	-35.97	-29.95	-13
			Right	2 115.03	-30.96	-24.94	
		High	Left	2 149.85	-29.32	-23.30	
			Right	2 180.15	-29.16	-23.14	
	16QAM	Low	Left	2 109.98	-36.11	-30.09	
			Right	2 115.03	-31.06	-25.04	
		High	Left	2 149.85	-29.38	-23.36	
			Right	2 180.15	-29.70	-23.68	
	64QAM	Low	Left	2 109.98	-36.34	-30.32	
			Right	2 115.03	-31.22	-25.20	
		High	Left	2 149.85	-30.06	-24.04	
			Right	2 180.15	-30.29	-24.27	
	256QAM	Low	Left	2 109.98	-35.34	-29.32	
			Right	2 115.03	-30.17	-24.15	
		High	Left	2 149.85	-28.60	-22.58	
			Right	2 180.15	-29.65	-23.63	
3	QPSK	Low	Left	2 109.98	-34.80	-28.78	-13
			Right	2 115.03	-30.45	-24.43	
		High	Left	2 149.85	-27.87	-21.85	
			Right	2 180.15	-28.91	-22.89	
	16QAM	Low	Left	2 109.98	-34.85	-28.83	
			Right	2 115.03	-29.98	-23.96	
		High	Left	2 149.85	-27.83	-21.81	
			Right	2 180.15	-28.46	-22.44	
	64QAM	Low	Left	2 109.98	-35.19	-29.17	
			Right	2 115.03	-30.88	-24.86	
		High	Left	2 149.85	-28.98	-22.96	
			Right	2 180.15	-29.58	-23.56	
	256QAM	Low	Left	2 109.98	-34.65	-28.63	
			Right	2 115.03	-30.20	-24.18	
		High	Left	2 149.85	-27.96	-21.94	
			Right	2 180.15	-28.60	-22.58	

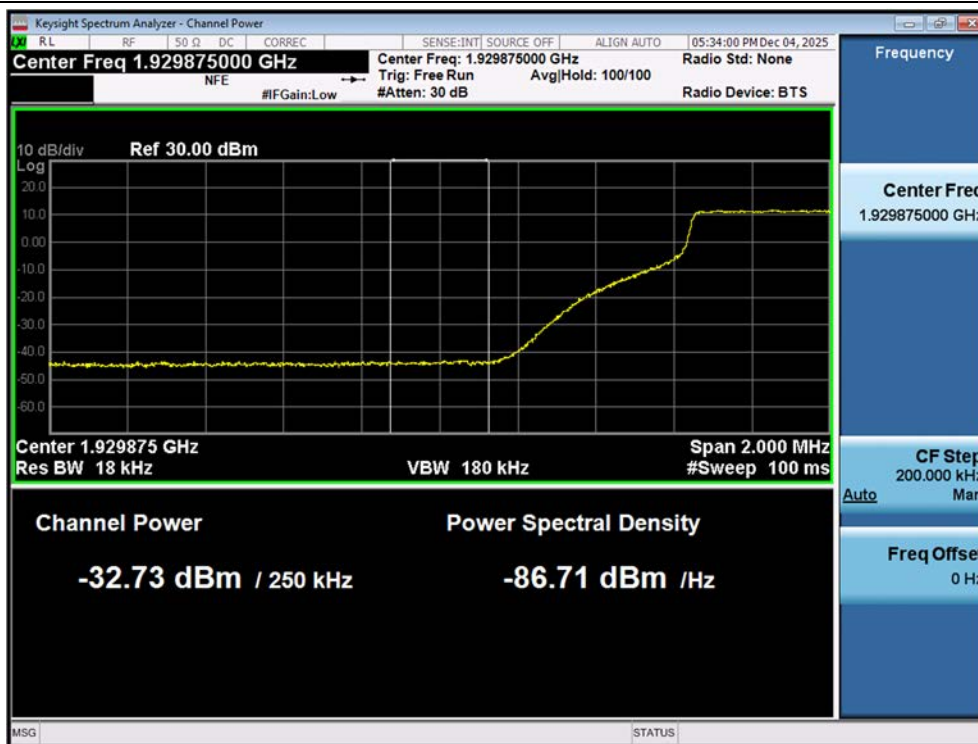
(4 Port) B66 DSS 10 MHz 1 Carrier + n66 5G NR 25 MHz 1 Carrier [2 Carrier]

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
0	QPSK	Low	Left	2 109.95	-33.54	-27.52	-13
			Right	2 120.05	-29.19	-23.17	
		High	Left	2 154.88	-30.46	-24.44	
			Right	2 180.13	-29.92	-23.90	
	16QAM	Low	Left	2 109.95	-34.18	-28.16	
			Right	2 120.05	-29.41	-23.39	
		High	Left	2 154.88	-30.51	-24.49	
			Right	2 180.13	-32.07	-26.05	
	64QAM	Low	Left	2 109.95	-31.57	-25.55	
			Right	2 120.05	-28.07	-22.05	
		High	Left	2 154.88	-26.31	-20.29	
			Right	2 180.13	-26.74	-20.72	
	256QAM	Low	Left	2 109.95	-34.14	-28.12	
			Right	2 120.05	-29.70	-23.68	
		High	Left	2 154.88	-30.55	-24.53	
			Right	2 180.13	-31.41	-25.39	
1	QPSK	Low	Left	2 109.95	-34.42	-28.40	
			Right	2 120.05	-29.85	-23.83	
		High	Left	2 154.88	-30.59	-24.57	
			Right	2 180.13	-30.52	-24.50	
	16QAM	Low	Left	2 109.95	-34.56	-28.54	
			Right	2 120.05	-29.80	-23.78	
		High	Left	2 154.88	-30.26	-24.24	
			Right	2 180.13	-30.95	-24.93	
	64QAM	Low	Left	2 109.95	-34.34	-28.32	
			Right	2 120.05	-29.85	-23.83	
		High	Left	2 154.88	-30.94	-24.92	
			Right	2 180.13	-30.66	-24.64	
	256QAM	Low	Left	2 109.95	-32.05	-26.03	
			Right	2 120.05	-28.98	-22.96	
		High	Left	2 154.88	-26.06	-20.04	
			Right	2 180.13	-26.23	-20.21	

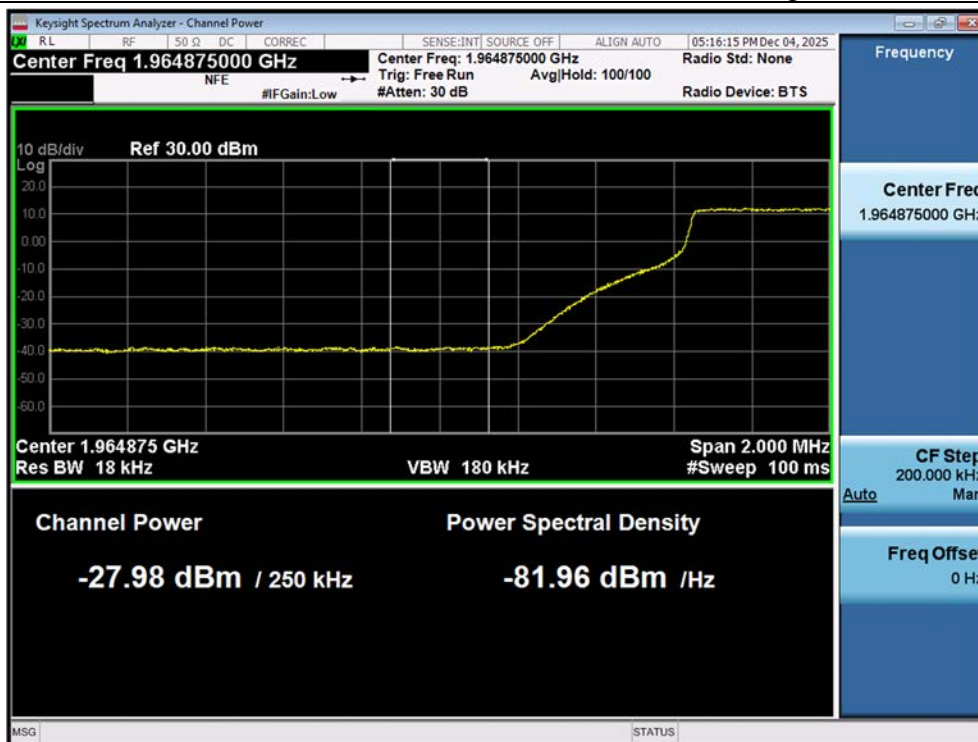
ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
2	QPSK	Low	Left	2 109.95	-35.80	-29.78	-13
			Right	2 120.05	-30.40	-24.38	
		High	Left	2 154.88	-32.08	-26.06	
			Right	2 180.13	-32.27	-26.25	
	16QAM	Low	Left	2 109.95	-36.56	-30.54	
			Right	2 120.05	-30.49	-24.47	
		High	Left	2 154.88	-32.11	-26.09	
			Right	2 180.13	-32.35	-26.33	
	64QAM	Low	Left	2 109.95	-32.55	-26.53	
			Right	2 120.05	-28.40	-22.38	
		High	Left	2 154.88	-28.32	-22.30	
			Right	2 180.13	-27.62	-21.60	
	256QAM	Low	Left	2 109.95	-34.74	-28.72	
			Right	2 120.05	-28.59	-22.57	
		High	Left	2 154.88	-25.49	-19.47	
			Right	2 180.13	-25.87	-19.85	
3	QPSK	Low	Left	2 109.95	-33.98	-27.96	-13
			Right	2 120.05	-29.65	-23.63	
		High	Left	2 154.88	-31.05	-25.03	
			Right	2 180.13	-31.96	-25.94	
	16QAM	Low	Left	2 109.95	-35.35	-29.33	
			Right	2 120.05	-29.43	-23.41	
		High	Left	2 154.88	-31.26	-25.24	
			Right	2 180.13	-31.73	-25.71	
	64QAM	Low	Left	2 109.95	-34.79	-28.77	
			Right	2 120.05	-29.34	-23.32	
		High	Left	2 154.88	-31.87	-25.85	
			Right	2 180.13	-31.91	-25.89	
	256QAM	Low	Left	2 109.95	-34.23	-28.21	
			Right	2 120.05	-29.45	-23.43	
		High	Left	2 154.88	-28.96	-22.94	
			Right	2 180.13	-29.92	-23.90	

Plot Data of Out-of-band Unwanted Emissions

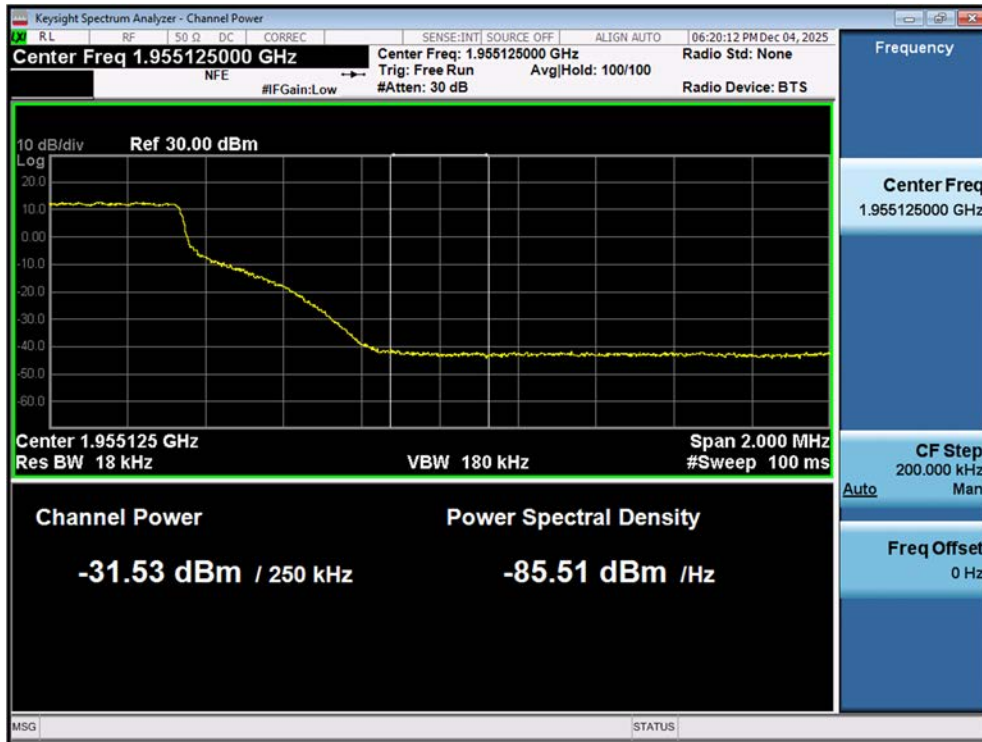
Antenna 1 / (4 Port) n2 5G NR 25 MHz 1 Carrier / QPSK / Low / Left



Antenna 1 / (4 Port) n2 5G NR 25 MHz 1 Carrier / 256QAM / High / Left



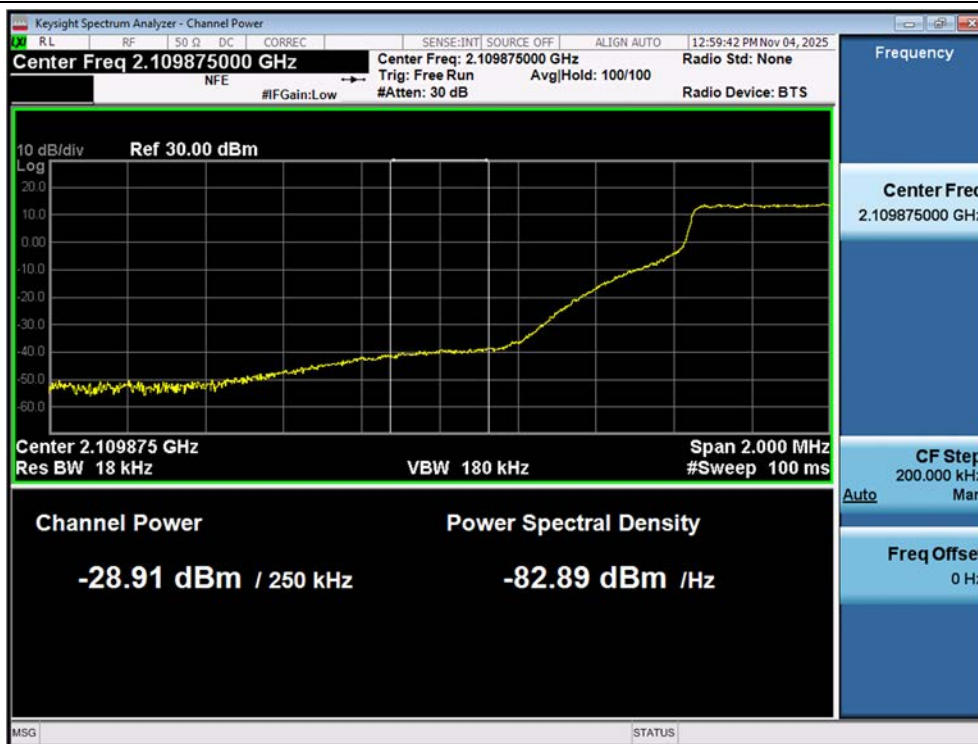
Antenna 1 / (4 Port) n2 5G NR 25 MHz 1 Carrier / 256QAM / Low / Right



Antenna 1 / (4 Port) n2 5G NR 25 MHz 1 Carrier / 16QAM / High / Right



Antenna 0 / (4 Port) n66 5G NR 25 MHz 1 Carrier / 256QAM / Low / Left



Antenna 0 / (4 Port) n66 5G NR 25 MHz 1 Carrier / 256QAM / High / Left

