

TEST REPORT

FCC Test for RF4492d-71A
Certification

APPLICANT
SAMSUNG Electronics Co., Ltd.

REPORT NO.
HCT-RF-2512-FC066-R2

DATE OF ISSUE
February 4, 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	RRU(RF4492d)
Model Name	RF4492d-71A
FCC ID	A3LRF4492D-71A
Date of Test	November 11, 2025 ~ January 29, 2026
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 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 19, 2025	Initial Release
1	January 30, 2026	Added inter-band test results.
2	February 04, 2026	Revised to correct a typo (C63.25 → C63.26).

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(RF4492d)					
EUT Serial Number	S61VA01851					
Power Supply	-48 VDC					
Frequency Range	Band/n71: 617 MHz ~ 652 MHz Band/n85: 728 MHz ~ 746 MHz					
Modulation Type	QPSK, 16QAM, 64QAM, 256QAM					
Output Power	Band	Carrier	Bandwidth		Power	
	(4 Port) n71	1	5 MHz		60 W/path, Total: 240 W	
	(4 Port) n71	1	10 MHz		80 W/path, Total: 320 W	
	(4 Port) n71	1	15 MHz		100 W/path, Total: 400 W	
	(4 Port) n71	1	20 MHz		100 W/path, Total: 400 W	
	(4 Port) n71	1	25 MHz		100 W/path, Total: 400 W	
	(4 Port) B85 LTE	1	5 MHz		60 W/path, Total: 240 W	
	(4 Port) B71 LTE + n71 5G NR	2	5 MHz + 20 MHz		100 W/path, Total: 400 W	
Emission Designator	Mode	Bandwidth	Emission Designator			
			QPSK (G7D)	Conducted (W)	16/64/256 QAM (W7D)	Conducted (W)
	(4 Port) n71	5 MHz	4M49G7D	210.08	4M50W7D	211.48
	(4 Port) n71	10 MHz	9M33G7D	280.56	9M34W7D	300.40
	(4 Port) n71	15 MHz	14M2G7D	353.88	14M3W7D	350.24
	(4 Port) n71	20 MHz	19M0G7D	347.36	19M1W7D	351.32
	(4 Port) n71	25 MHz	23M8G7D	353.05	23M9W7D	354.30
	(4 Port) B85 LTE	5 MHz	4M50G7D	208.47	4M51W7D	214.89
	(4 Port) B71 LTE + n71 5G NR (Contiguous)	5 MHz + 20 MHz	24M3G7D	345.65	24M3W7D	348.04
	(4 Port) B71 LTE + n71 5G NR (Non-Contiguous)	5 MHz + 20 MHz	23M5G7D	344.62	23M5W7D	352.69
Antenna Specification	Manufacturer does not provide an antenna					

1.3. TEST INFORMATION

FCC Rule Parts	CFR 47 Part 2, 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 27

Description	Reference	Results
Conducted Output Power and PSD	§ 2.1046, § 27.50(c)(3), (4)	Compliant
Occupied Bandwidth	§ 2.1049	Compliant
Out-of-band Unwanted Emissions	§ 2.1051, § 27.53(g)	Compliant
Spurious Unwanted Emissions		Compliant
Radiated Emissions	§ 2.1053, § 27.53(g)	Compliant
Frequency Stability	§ 2.1055, § 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.
- Since NB-IoT in-band in Band 85 operates within the LTE signal, it was verified within the Band 85 LTE 5 MHz test results.
- 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.
- 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.
- Since the output power and occupied bandwidth were reported in the single-band (including intra-band carrier aggregation) configuration, only out-of-band unwanted emissions, transmitter unwanted emissions, and radiated spurious emissions were reported for the inter-band carrier aggregation. However, additional measurements were performed in cases where the output power differed from that of the single-band configuration.
- For inter-band carrier aggregation, output power and frequency are reported on a per-band basis, and no summation across different frequency bands is applied.
- 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	28.187	1 800	31.529
100	28.558	1 900	31.440
200	29.257	2 000	31.829
300	29.175	2 100	31.852
400	29.348	2 200	31.559
500	29.793	2 300	31.583
600	29.629	2 400	31.518
700	29.797	2 500	31.489
800	29.854	2 600	31.376
900	30.278	2 700	31.516
1 000	30.385	2 800	31.844
1 100	30.457	2 900	31.866
1 200	30.610	3 000	32.275
1 300	30.639	4 000	32.773
1 400	30.687	5 000	33.360
1 500	30.753	6 000	33.178
1 600	31.040	7 000	33.968
1 700	31.259	8 000	34.896

ANT 1

Correction factor table			
Frequency (MHz)	Factor (dB)	Frequency (MHz)	Factor (dB)
0.009	28.405	1 800	32.648
100	28.812	1 900	32.393
200	29.528	2 000	32.169
300	29.466	2 100	32.270
400	29.595	2 200	31.985
500	30.066	2 300	31.859
600	29.909	2 400	31.886
700	30.077	2 500	31.793
800	30.112	2 600	31.777
900	30.512	2 700	31.647
1 000	30.738	2 800	32.096
1 100	30.836	2 900	32.157
1 200	30.974	3 000	32.53
1 300	31.067	4 000	32.757
1 400	31.238	5 000	33.378
1 500	31.844	6 000	34.014
1 600	34.203	7 000	34.793
1 700	35.065	8 000	35.603

ANT 2

Correction factor table			
Frequency (MHz)	Factor (dB)	Frequency (MHz)	Factor (dB)
0.009	29.034	1 800	32.593
100	29.332	1 900	32.684
200	30.06	2 000	32.785
300	30.02	2 100	32.931
400	30.205	2 200	32.702
500	30.632	2 300	32.676
600	30.508	2 400	32.666
700	30.679	2 500	32.655
800	30.754	2 600	32.63
900	31.147	2 700	32.552
1 000	31.371	2 800	33.011
1 100	31.507	2 900	33.567
1 200	31.621	3 000	33.828
1 300	31.743	4 000	34.077
1 400	31.759	5 000	34.487
1 500	31.839	6 000	35.026
1 600	32.08	7 000	35.778
1 700	32.293	8 000	36.58

ANT 3

Correction factor table			
Frequency (MHz)	Factor (dB)	Frequency (MHz)	Factor (dB)
0.009	28.579	1 800	32.095
100	29.121	1 900	31.956
200	29.807	2 000	32.261
300	29.725	2 100	32.347
400	29.876	2 200	32.068
500	30.344	2 300	32.013
600	30.182	2 400	32.009
700	30.324	2 500	32.012
800	30.387	2 600	31.877
900	30.816	2 700	31.982
1 000	30.883	2 800	32.345
1 100	31.01	2 900	32.364
1 200	31.158	3 000	32.789
1 300	31.17	4 000	33.298
1 400	31.229	5 000	33.812
1 500	31.295	6 000	33.821
1 600	31.542	7 000	34.575
1 700	31.757	8 000	35.602

3.3. MAXIMUM MEASUREMENT UNCERTAINTY

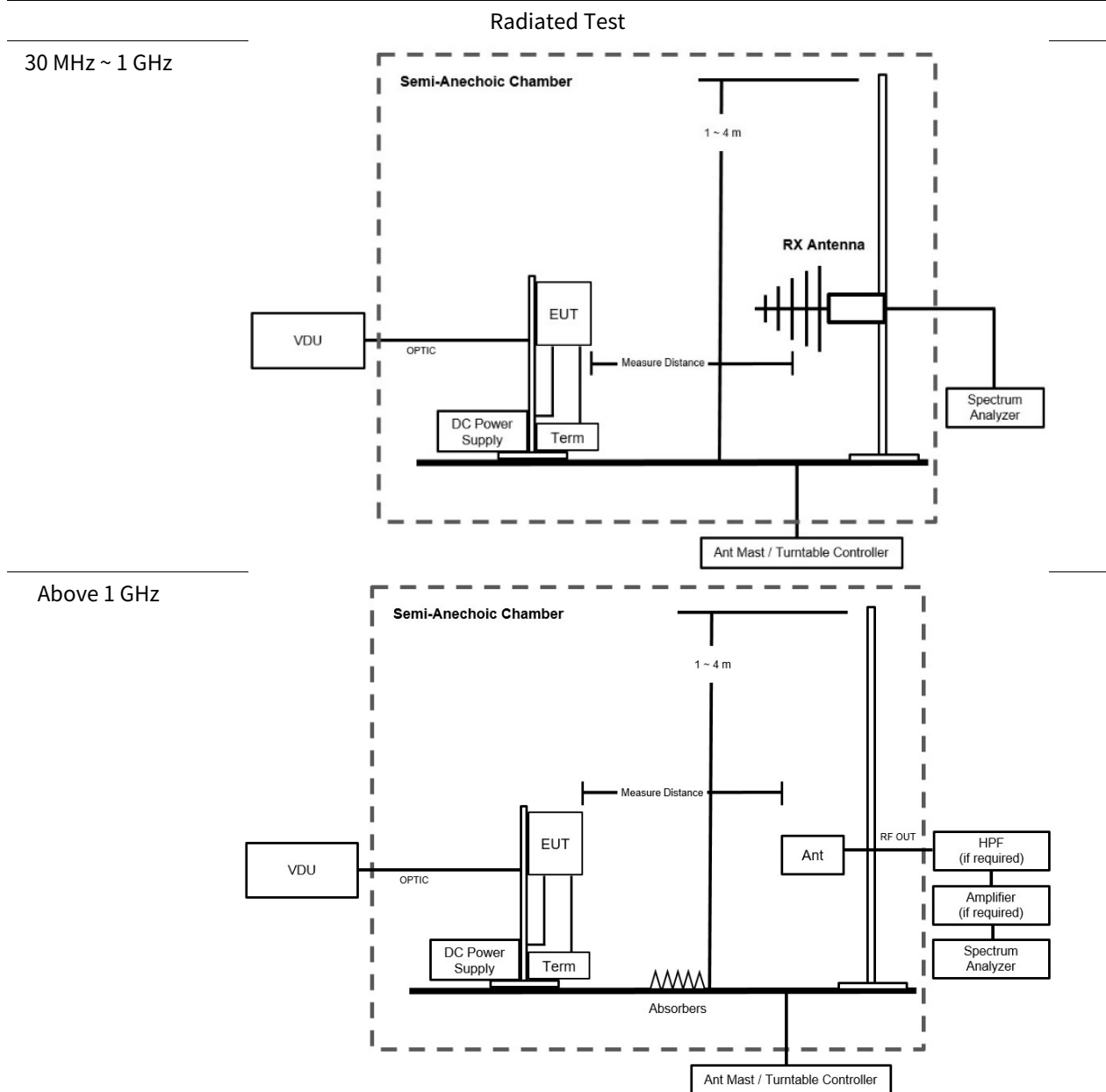
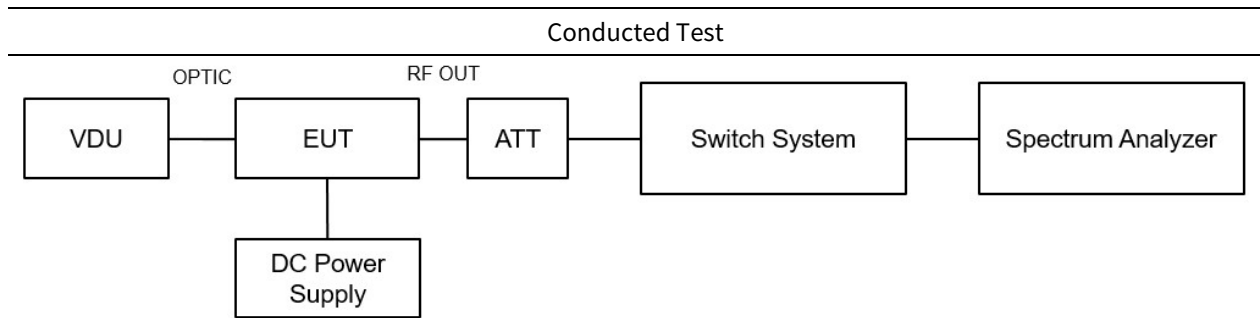
Description	Condition	Uncertainty
Radiated Disturbance	9 kHz ~ 30 MHz	± 4.36 dB
	30 MHz ~ 1 GHz	± 5.68 dB
	1 GHz ~ 18 GHz	± 5.75 dB
	18 GHz ~ 40 GHz	± 5.82 dB

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

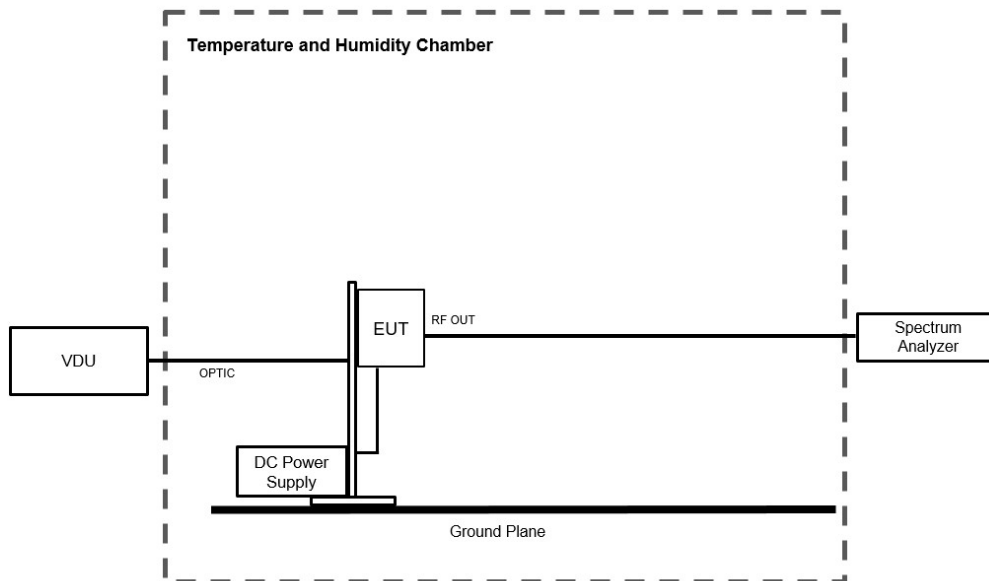
3.5. TEST DIAGRAMS



※ 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
MXA Signal Analyzer	N9020A	Agilent	MY51110063	03/21/2026	Annual
PXA SIGNAL ANALYZER	N9030B	Keysight	MY55480110	01/13/2027	Annual
RF Switch System	TMX0108	TNM System	TM21110001	N/A	N/A
#30 dB Attenuator	67-30-33	API Weinschel, Inc.	CL4341	04/29/2026	Annual
#50Ω Termination	908A	H.P.	N/A	N/A	N/A
DC Power Supply	EX 60-40	ODA	ODA-02-0923-01621	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 systems	CO3000/1251/48920320/P	N/A	N/A
Antenna Mast	MA4640	Innco systems	S4AM	08/01/2026	Annual
Turn Table	1060	Innco systems	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
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
High Pass Filter	WHKX10-900-1000- 15000-40SS	Wainwright Instruments	16	07/10/2026	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.

§ 27.50 Power limits and duty cycle.

- (c) The following power and antenna height requirements apply to stations transmitting in the 600 MHz band and the 698-746 MHz band:
 - (3) Fixed and base stations transmitting a signal with an emission bandwidth greater than 1 MHz must not exceed an ERP of 1000 watts/MHz and an antenna height of 305 m HAAT, except that antenna heights greater than 305 m HAAT are permitted if power levels are reduced below 1000 watts/MHz ERP in accordance with Table 3 of this section;
 - (4) Fixed and base stations located in a county with population density of 100 or fewer persons per square mile, based upon the most recently available population statistics from the Bureau of the Census, and transmitting a signal with an emission bandwidth greater than 1 MHz must not exceed an ERP of 2000 watts/MHz and an antenna height of 305 m HAAT, except that antenna heights greater than 305 m HAAT are permitted if power levels are reduced below 2000 watts/MHz ERP in accordance with Table 4 of this section;

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.

Notes:

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 ERP 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.
 - 1000 watts/MHz limit: 14.08 dBi
 - 2000 watts/MHz limit: 17.09 dBi

Test Results:

Tabular Data of RF Output Power

(4 Port) n71 5G NR 5 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	619.50	47.17	52.13
		Middle	634.50	47.19	52.36
		High	649.50	47.11	51.45
	16QAM	Low	619.50	47.15	51.93
		Middle	634.50	47.17	52.12
		High	649.50	47.11	51.44
	64QAM	Low	619.50	47.22	52.76
		Middle	634.50	47.19	52.38
		High	649.50	47.12	51.50
	256QAM	Low	619.50	47.17	52.12
		Middle	634.50	47.14	51.80
		High	649.50	47.11	51.40
1	QPSK	Low	619.50	47.14	51.80
		Middle	634.50	47.19	52.36
		High	649.50	47.17	52.08
	16QAM	Low	619.50	47.16	51.96
		Middle	634.50	47.18	52.24
		High	649.50	47.23	52.89
	64QAM	Low	619.50	47.22	52.71
		Middle	634.50	47.15	51.86
		High	649.50	47.11	51.44
	256QAM	Low	619.50	47.26	53.20
		Middle	634.50	47.10	51.31
		High	649.50	47.14	51.76
2	QPSK	Low	619.50	47.22	52.69
		Middle	634.50	47.24	52.91
		High	649.50	47.22	52.77
	16QAM	Low	619.50	47.11	51.39
		Middle	634.50	47.24	53.02
		High	649.50	47.21	52.59
	64QAM	Low	619.50	47.33	54.11
		Middle	634.50	47.18	52.26
		High	649.50	47.32	53.90
	256QAM	Low	619.50	47.29	53.62
		Middle	634.50	47.11	51.36
		High	649.50	47.17	52.10
3	QPSK	Low	619.50	47.13	51.63
		Middle	634.50	47.20	52.46
		High	649.50	47.11	51.43
	16QAM	Low	619.50	47.15	51.87
		Middle	634.50	47.26	53.19
		High	649.50	47.18	52.19
	64QAM	Low	619.50	47.15	51.89
		Middle	634.50	47.13	51.61
		High	649.50	47.11	51.37
	256QAM	Low	619.50	47.13	51.59
		Middle	634.50	47.10	51.29
		High	649.50	47.15	51.89

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

Frequency (MHz)	Output Power (Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
619.50	208.24	207.15	211.48	210.53
634.50	210.08	210.56	208.11	205.75
649.50	207.73	209.11	208.21	207.15

(4 Port) n71 5G NR 10 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	622.00	48.49	70.62
		Middle	634.50	48.33	68.01
		High	647.00	48.35	68.41
	16QAM	Low	622.00	48.66	73.52
		Middle	634.50	48.72	74.46
		High	647.00	48.67	73.59
	64QAM	Low	622.00	48.43	69.68
		Middle	634.50	48.35	68.38
		High	647.00	48.43	69.61
	256QAM	Low	622.00	48.42	69.50
		Middle	634.50	48.33	68.12
		High	647.00	48.39	69.04
1	QPSK	Low	622.00	48.48	70.50
		Middle	634.50	48.31	67.83
		High	647.00	48.31	67.83
	16QAM	Low	622.00	48.80	75.84
		Middle	634.50	48.74	74.87
		High	647.00	48.65	73.35
	64QAM	Low	622.00	48.57	71.93
		Middle	634.50	48.43	69.60
		High	647.00	48.45	69.98
	256QAM	Low	622.00	48.50	70.75
		Middle	634.50	48.35	68.31
		High	647.00	48.34	68.23
2	QPSK	Low	622.00	48.48	70.42
		Middle	634.50	48.42	69.45
		High	647.00	48.33	68.12
	16QAM	Low	622.00	48.82	76.21
		Middle	634.50	48.85	76.79
		High	647.00	48.83	76.44
	64QAM	Low	622.00	48.53	71.33
		Middle	634.50	48.47	70.26
		High	647.00	48.48	70.52
	256QAM	Low	622.00	48.48	70.53
		Middle	634.50	48.42	69.45
		High	647.00	48.43	69.69
3	QPSK	Low	622.00	48.39	69.02
		Middle	634.50	48.35	68.31
		High	647.00	48.30	67.61
	16QAM	Low	622.00	48.66	73.40
		Middle	634.50	48.71	74.28
		High	647.00	48.73	74.64
	64QAM	Low	622.00	48.37	68.74
		Middle	634.50	48.43	69.71
		High	647.00	48.37	68.75
	256QAM	Low	622.00	48.36	68.63
		Middle	634.50	48.35	68.34
		High	647.00	48.32	67.89

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

Frequency (MHz)	Output Power (Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
622.00	280.56	298.97	281.68	279.41
634.50	273.61	300.40	277.94	274.23
647.00	271.97	298.02	278.87	274.86

(4 Port) n71 5G NR 15 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	624.50	49.42	87.52
		Middle	634.50	49.35	86.10
		High	644.50	49.32	85.43
	16QAM	Low	624.50	49.43	87.70
		Middle	634.50	49.32	85.45
		High	644.50	49.35	86.20
	64QAM	Low	624.50	49.40	87.06
		Middle	634.50	49.38	86.64
		High	644.50	49.36	86.22
	256QAM	Low	624.50	49.35	86.14
		Middle	634.50	49.31	85.23
		High	644.50	49.32	85.53
1	QPSK	Low	624.50	49.53	89.70
		Middle	634.50	49.31	85.39
		High	644.50	49.35	86.18
	16QAM	Low	624.50	49.42	87.48
		Middle	634.50	49.39	86.88
		High	644.50	49.42	87.44
	64QAM	Low	624.50	49.41	87.36
		Middle	634.50	49.41	87.24
		High	644.50	49.38	86.68
	256QAM	Low	624.50	49.46	88.31
		Middle	634.50	49.38	86.78
		High	644.50	49.44	87.82
2	QPSK	Low	624.50	49.50	89.08
		Middle	634.50	49.48	88.82
		High	644.50	49.50	89.19
	16QAM	Low	624.50	49.41	87.40
		Middle	634.50	49.54	90.01
		High	644.50	49.51	89.33
	64QAM	Low	624.50	49.51	89.29
		Middle	634.50	49.46	88.21
		High	644.50	49.46	88.37
	256QAM	Low	624.50	49.50	89.21
		Middle	634.50	49.43	87.70
		High	644.50	49.50	89.13
3	QPSK	Low	624.50	49.42	87.58
		Middle	634.50	49.37	86.44
		High	644.50	49.33	85.70
	16QAM	Low	624.50	49.33	85.72
		Middle	634.50	49.32	85.47
		High	644.50	49.35	86.08
	64QAM	Low	624.50	49.37	86.54
		Middle	634.50	49.36	86.20
		High	644.50	49.31	85.33
	256QAM	Low	624.50	49.32	85.47
		Middle	634.50	49.37	86.58
		High	644.50	49.32	85.57

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

Frequency (MHz)	Output Power (Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
624.50	353.88	348.30	350.24	349.12
634.50	346.74	347.80	348.28	346.28
644.50	346.50	349.05	346.59	348.04

(4 Port) n71 5G NR 20 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	627.00	49.31	85.31
		Middle	634.50	49.34	85.86
		High	642.00	49.30	85.13
	16QAM	Low	627.00	49.31	85.27
		Middle	634.50	49.34	85.88
		High	642.00	49.35	86.20
	64QAM	Low	627.00	49.31	85.21
		Middle	634.50	49.44	87.84
		High	642.00	49.39	86.94
	256QAM	Low	627.00	49.38	86.72
		Middle	634.50	49.38	86.70
		High	642.00	49.32	85.55
1	QPSK	Low	627.00	49.32	85.53
		Middle	634.50	49.32	85.43
		High	642.00	49.34	85.94
	16QAM	Low	627.00	49.35	86.00
		Middle	634.50	49.46	88.23
		High	642.00	49.48	88.74
	64QAM	Low	627.00	49.40	87.18
		Middle	634.50	49.39	86.80
		High	642.00	49.47	88.51
	256QAM	Low	627.00	49.42	87.56
		Middle	634.50	49.40	87.16
		High	642.00	49.37	86.54
2	QPSK	Low	627.00	49.49	88.92
		Middle	634.50	49.31	85.29
		High	642.00	49.50	89.19
	16QAM	Low	627.00	49.56	90.43
		Middle	634.50	49.49	88.84
		High	642.00	49.50	89.13
	64QAM	Low	627.00	49.50	89.15
		Middle	634.50	49.52	89.47
		High	642.00	49.48	88.70
	256QAM	Low	627.00	49.55	90.07
		Middle	634.50	49.47	88.53
		High	642.00	49.55	90.18
3	QPSK	Low	627.00	49.32	85.43
		Middle	634.50	49.31	85.31
		High	642.00	49.40	87.10
	16QAM	Low	627.00	49.31	85.31
		Middle	634.50	49.40	87.10
		High	642.00	49.41	87.26
	64QAM	Low	627.00	49.40	87.12
		Middle	634.50	49.36	86.32
		High	642.00	49.34	85.86
	256QAM	Low	627.00	49.38	86.70
		Middle	634.50	49.42	87.48
		High	642.00	49.33	85.64

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

Frequency (MHz)	Output Power (Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
627.00	345.18	347.01	348.65	351.05
634.50	341.89	350.04	350.43	349.86
642.00	347.36	351.32	350.00	347.91

(4 Port) n71 5G NR 25 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	629.50	49.49	88.90
		Middle	634.50	49.22	83.58
		High	639.50	49.30	85.15
	16QAM	Low	629.50	49.44	87.82
		Middle	634.50	49.24	84.04
		High	639.50	49.35	86.10
	64QAM	Low	629.50	49.39	86.92
		Middle	634.50	49.23	83.79
		High	639.50	49.30	85.11
	256QAM	Low	629.50	49.36	86.32
		Middle	634.50	49.23	83.73
		High	639.50	49.37	86.58
1	QPSK	Low	629.50	49.48	88.70
		Middle	634.50	49.25	84.18
		High	639.50	49.31	85.27
	16QAM	Low	629.50	49.52	89.58
		Middle	634.50	49.23	83.73
		High	639.50	49.38	86.68
	64QAM	Low	629.50	49.50	89.21
		Middle	634.50	49.28	84.74
		High	639.50	49.30	85.19
	256QAM	Low	629.50	49.36	86.26
		Middle	634.50	49.30	85.04
		High	639.50	49.38	86.80
2	QPSK	Low	629.50	49.52	89.52
		Middle	634.50	49.34	85.88
		High	639.50	49.45	88.19
	16QAM	Low	629.50	49.58	90.76
		Middle	634.50	49.43	87.72
		High	639.50	49.48	88.76
	64QAM	Low	629.50	49.52	89.50
		Middle	634.50	49.46	88.41
		High	639.50	49.46	88.23
	256QAM	Low	629.50	49.44	87.98
		Middle	634.50	49.38	86.76
		High	639.50	49.44	87.86
3	QPSK	Low	629.50	49.34	85.94
		Middle	634.50	49.23	83.81
		High	639.50	49.30	85.21
	16QAM	Low	629.50	49.35	86.14
		Middle	634.50	49.29	84.98
		High	639.50	49.32	85.47
	64QAM	Low	629.50	49.32	85.45
		Middle	634.50	49.35	86.14
		High	639.50	49.32	85.57
	256QAM	Low	629.50	49.35	86.08
		Middle	634.50	49.29	84.84
		High	639.50	49.28	84.78

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

Frequency (MHz)	Output Power (Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
629.50	353.05	354.30	351.07	346.64
634.50	337.45	340.47	343.08	340.37
639.50	343.82	347.00	344.10	346.02

(4 Port) B85 LTE 5 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	730.50	47.10	51.33
		Middle	737.00	47.13	51.63
		High	743.50	47.16	52.01
	16QAM	Low	730.50	47.16	52.04
		Middle	737.00	47.13	51.70
		High	743.50	47.16	51.99
	64QAM	Low	730.50	47.21	52.61
		Middle	737.00	47.23	52.83
		High	743.50	47.27	53.32
	256QAM	Low	730.50	47.13	51.62
		Middle	737.00	47.23	52.80
		High	743.50	47.19	52.34
1	QPSK	Low	730.50	47.16	52.06
		Middle	737.00	47.14	51.76
		High	743.50	47.16	52.01
	16QAM	Low	730.50	47.10	51.30
		Middle	737.00	47.14	51.72
		High	743.50	47.34	54.23
	64QAM	Low	730.50	47.15	51.90
		Middle	737.00	47.15	51.89
		High	743.50	47.35	54.33
	256QAM	Low	730.50	47.11	51.46
		Middle	737.00	47.28	53.46
		High	743.50	47.14	51.81
2	QPSK	Low	730.50	47.25	53.14
		Middle	737.00	47.23	52.89
		High	743.50	47.20	52.47
	16QAM	Low	730.50	47.13	51.59
		Middle	737.00	47.23	52.81
		High	743.50	47.29	53.53
	64QAM	Low	730.50	47.33	54.09
		Middle	737.00	47.40	54.97
		High	743.50	47.21	52.55
	256QAM	Low	730.50	47.25	53.05
		Middle	737.00	47.49	56.14
		High	743.50	47.24	53.03
3	QPSK	Low	730.50	47.12	51.57
		Middle	737.00	47.15	51.83
		High	743.50	47.16	51.98
	16QAM	Low	730.50	47.35	54.35
		Middle	737.00	47.24	52.97
		High	743.50	47.19	52.34
	64QAM	Low	730.50	47.23	52.83
		Middle	737.00	47.18	52.19
		High	743.50	47.12	51.55
	256QAM	Low	730.50	47.11	51.42
		Middle	737.00	47.20	52.49
		High	743.50	47.21	52.60

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

Frequency (MHz)	Output Power (Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
730.50	208.10	209.28	211.44	207.55
737.00	208.12	209.20	211.88	214.89
743.50	208.47	212.08	211.75	209.77

Tabular Data of RF Contiguous Output Power

(4 Port) B71 LTE 5 MHz 1 Carrier + n71 5G NR 20 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	629.50	49.33	85.61
		Middle	634.50	49.32	85.55
		High	639.50	49.30	85.11
	16QAM	Low	629.50	49.29	85.00
		Middle	634.50	49.36	86.32
		High	639.50	49.38	86.78
	64QAM	Low	629.50	49.29	84.96
		Middle	634.50	49.31	85.29
		High	639.50	49.36	86.36
	256QAM	Low	629.50	49.29	84.96
		Middle	634.50	49.33	85.74
		High	639.50	49.35	86.12
1	QPSK	Low	629.50	49.37	86.42
		Middle	634.50	49.30	85.21
		High	639.50	49.35	86.04
	16QAM	Low	629.50	49.30	85.02
		Middle	634.50	49.36	86.40
		High	639.50	49.37	86.48
	64QAM	Low	629.50	49.40	87.10
		Middle	634.50	49.41	87.32
		High	639.50	49.38	86.68
	256QAM	Low	629.50	49.42	87.58
		Middle	634.50	49.31	85.23
		High	639.50	49.39	86.88
2	QPSK	Low	629.50	49.40	87.10
		Middle	634.50	49.51	89.25
		High	639.50	49.48	88.78
	16QAM	Low	629.50	49.42	87.54
		Middle	634.50	49.47	88.57
		High	639.50	49.43	87.62
	64QAM	Low	629.50	49.43	87.62
		Middle	634.50	49.48	88.72
		High	639.50	49.49	88.98
	256QAM	Low	629.50	49.40	87.08
		Middle	634.50	49.45	88.19
		High	639.50	49.46	88.33
3	QPSK	Low	629.50	49.35	86.10
		Middle	634.50	49.33	85.64
		High	639.50	49.32	85.57
	16QAM	Low	629.50	49.31	85.35
		Middle	634.50	49.33	85.76
		High	639.50	49.33	85.66
	64QAM	Low	629.50	49.30	85.17
		Middle	634.50	49.35	86.06
		High	639.50	49.35	86.02
	256QAM	Low	629.50	49.30	85.15
		Middle	634.50	49.36	86.28
		High	639.50	49.31	85.25

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

Frequency (MHz)	Output Power (Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
629.50	345.22	342.90	344.85	344.77
634.50	345.65	347.05	347.38	345.44
639.50	345.50	346.54	348.04	346.57

Tabular Data of RF Non-Contiguous Output Power

(4 Port) B71 LTE 5 MHz 1 Carrier + n71 5G NR 20 MHz 1 Carrier [2 Carrier]

Ant.	Mod.	B71 LTE 5 MHz 1 Carrier		n71 5G NR 20 MHz 1 Carrier		Summation Value (dBm)	Calculated (W)
		Frequency (MHz)	Measured Value (dBm)	Frequency (MHz)	Measured Value (dBm)		
0	QPSK	619.50	42.38	642.00	48.35	49.33	85.66
	16QAM	619.50	42.44	642.00	48.39	49.37	86.56
	64QAM	619.50	42.42	642.00	48.36	49.34	85.96
	256QAM	619.50	42.58	642.00	48.44	49.44	87.86
1	QPSK	619.50	42.41	642.00	48.37	49.36	86.20
	16QAM	619.50	42.50	642.00	48.50	49.47	88.47
	64QAM	619.50	42.56	642.00	48.52	49.50	89.21
	256QAM	619.50	42.49	642.00	48.47	49.45	88.02
2	QPSK	619.50	42.50	642.00	48.40	49.40	87.04
	16QAM	619.50	42.45	642.00	48.59	49.53	89.83
	64QAM	619.50	42.43	642.00	48.53	49.48	88.76
	256QAM	619.50	42.52	642.00	48.50	49.47	88.61
3	QPSK	619.50	42.34	642.00	48.36	49.33	85.70
	16QAM	619.50	42.36	642.00	48.49	49.44	87.82
	64QAM	619.50	42.40	642.00	48.44	49.40	87.16
	256QAM	619.50	42.39	642.00	48.36	49.34	85.86

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

Frequency (MHz)	Output Power (Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
619.50 + 642.00	344.62	352.69	351.08	350.36

Tabular Data of RF Inter-band Output Power

(4 Port) B71 LTE (Lower) 5 MHz 1 Carrier + n71 5G NR (Upper) 20 MHz 1 Carrier + B85 LTE (Lower) 5 MHz 1 Carrier
[3 Carrier]

Antenna	Modulation	B71		n71		B/n71		B85			Aggregate (W)
		LTE (Lower) 5 MHz 1 Carrier		5G NR (Upper) 20 MHz 1 Carrier		S.V.# (dBm)	Cal. # (W)	LTE (Lower) 5 MHz 1 Carrier		Cal. # (W)	
		Freq. (MHz)	M.V.# (dBm)	Freq. (MHz)	M.V.# (dBm)			Freq. (MHz)	M.V.# (dBm)		
0	QPSK	619.50	42.42	642.00	48.39	49.37	86.43	730.50	42.50	17.77	104.20
	16QAM	619.50	42.20	642.00	48.38	49.32	85.48	730.50	42.47	17.66	103.14
	64QAM	619.50	42.40	642.00	48.25	49.26	84.24	730.50	42.50	17.76	102.01
	256QAM	619.50	42.35	642.00	48.29	49.27	84.60	730.50	42.37	17.27	101.87
1	QPSK	619.50	42.41	642.00	48.30	49.29	84.97	730.50	42.33	17.11	102.09
	16QAM	619.50	42.54	642.00	48.39	49.39	86.90	730.50	42.52	17.88	104.78
	64QAM	619.50	42.54	642.00	48.41	49.41	87.22	730.50	42.59	18.17	105.39
	256QAM	619.50	42.50	642.00	48.37	49.37	86.51	730.50	42.48	17.70	104.21
2	QPSK	619.50	42.59	642.00	48.50	49.49	88.95	730.50	42.57	18.09	107.04
	16QAM	619.50	42.56	642.00	48.54	49.52	89.45	730.50	42.65	18.41	107.86
	64QAM	619.50	42.64	642.00	48.51	49.51	89.40	730.50	42.60	18.20	107.61
	256QAM	619.50	42.56	642.00	48.54	49.51	89.42	730.50	42.55	17.97	107.40
3	QPSK	619.50	42.29	642.00	48.23	49.22	83.48	730.50	42.28	16.90	100.38
	16QAM	619.50	42.24	642.00	48.43	49.36	86.36	730.50	42.38	17.29	103.66
	64QAM	619.50	42.46	642.00	48.38	49.37	86.40	730.50	42.62	18.27	104.68
	256QAM	619.50	42.49	642.00	48.46	49.44	87.82	730.50	42.46	17.63	105.45

#M.V.: Measured Value, S.V.: Summation Value, Cal.: Calculated

Overall Aggregate Output Power (informative)

Frequency (MHz)	Output Power (Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
619.5, 642.0, 730.5	413.71	419.44	419.68	418.92

(4 Port) B71 LTE (Lower) 5 MHz 1 Carrier + n71 5G NR (Upper) 20 MHz 1 Carrier + B85 LTE (Upper) 5 MHz 1 Carrier
[3 Carrier]

Antenna	Modulation	B71		n71		B/n71		B85			Aggregate (W)
		LTE (Lower) 5 MHz 1 Carrier		5G NR (Upper) 20 MHz 1 Carrier		S.V.# (dBm)	Cal. # (W)	LTE (Upper) 5 MHz 1 Carrier		Cal. # (W)	
		Freq. (MHz)	M.V.# (dBm)	Freq. (MHz)	M.V.# (dBm)			Freq. (MHz)	M.V.# (dBm)		
0	QPSK	619.50	42.28	642.00	48.30	49.27	84.59	743.50	42.41	17.40	101.99
	16QAM	619.50	42.48	642.00	48.49	49.46	88.24	743.50	42.48	17.69	105.93
	64QAM	619.50	42.27	642.00	48.19	49.18	82.77	743.50	42.34	17.15	99.91
	256QAM	619.50	42.25	642.00	48.24	49.22	83.53	743.50	42.27	16.87	100.40
1	QPSK	619.50	42.43	642.00	48.44	49.41	87.27	743.50	42.38	17.28	104.55
	16QAM	619.50	42.72	642.00	48.48	49.50	89.20	743.50	42.55	17.99	107.18
	64QAM	619.50	42.35	642.00	48.30	49.28	84.79	743.50	42.46	17.62	102.41
	256QAM	619.50	42.41	642.00	48.32	49.31	85.34	743.50	42.35	17.20	102.54
2	QPSK	619.50	42.51	642.00	48.49	49.47	88.45	743.50	42.57	18.09	106.54
	16QAM	619.50	42.66	642.00	48.68	49.65	92.19	743.50	42.67	18.51	110.71
	64QAM	619.50	42.61	642.00	48.51	49.51	89.23	743.50	42.61	18.25	107.48
	256QAM	619.50	42.44	642.00	48.47	49.44	87.83	743.50	42.58	18.13	105.95
3	QPSK	619.50	42.32	642.00	48.34	49.31	85.21	743.50	42.33	17.09	102.30
	16QAM	619.50	42.50	642.00	48.54	49.50	89.22	743.50	42.58	18.12	107.34
	64QAM	619.50	42.35	642.00	48.37	49.34	85.86	743.50	42.45	17.56	103.42
	256QAM	619.50	42.36	642.00	48.37	49.34	85.96	743.50	42.36	17.22	103.17

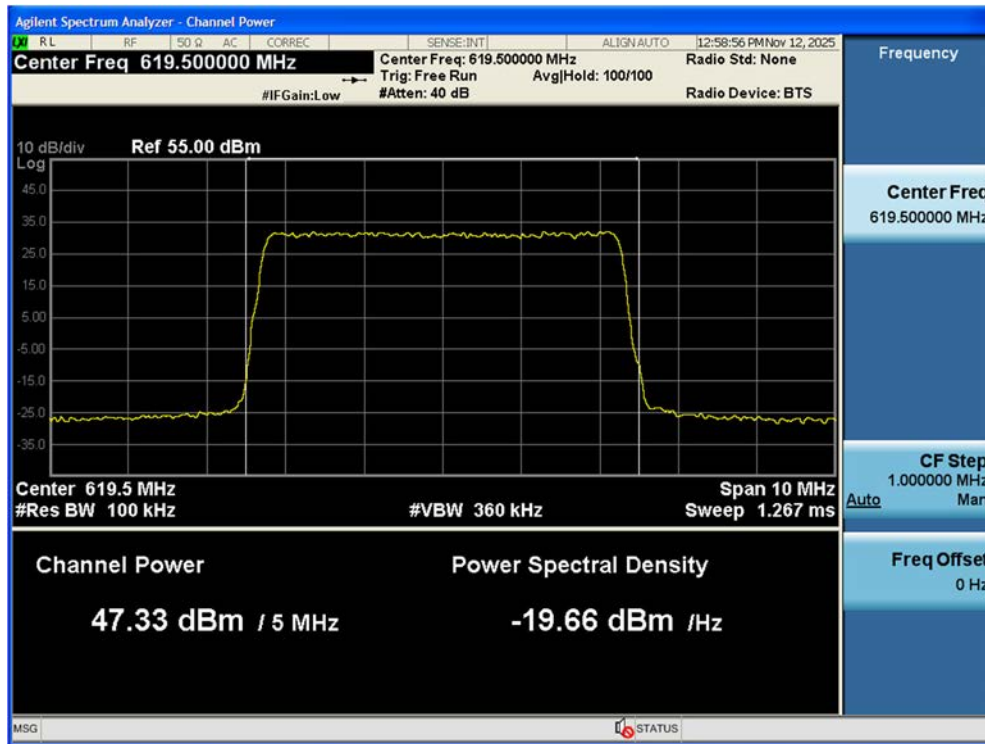
#M.V.: Measured Value, S.V.: Summation Value, Cal.: Calculated

Overall Aggregate Output Power (informative)

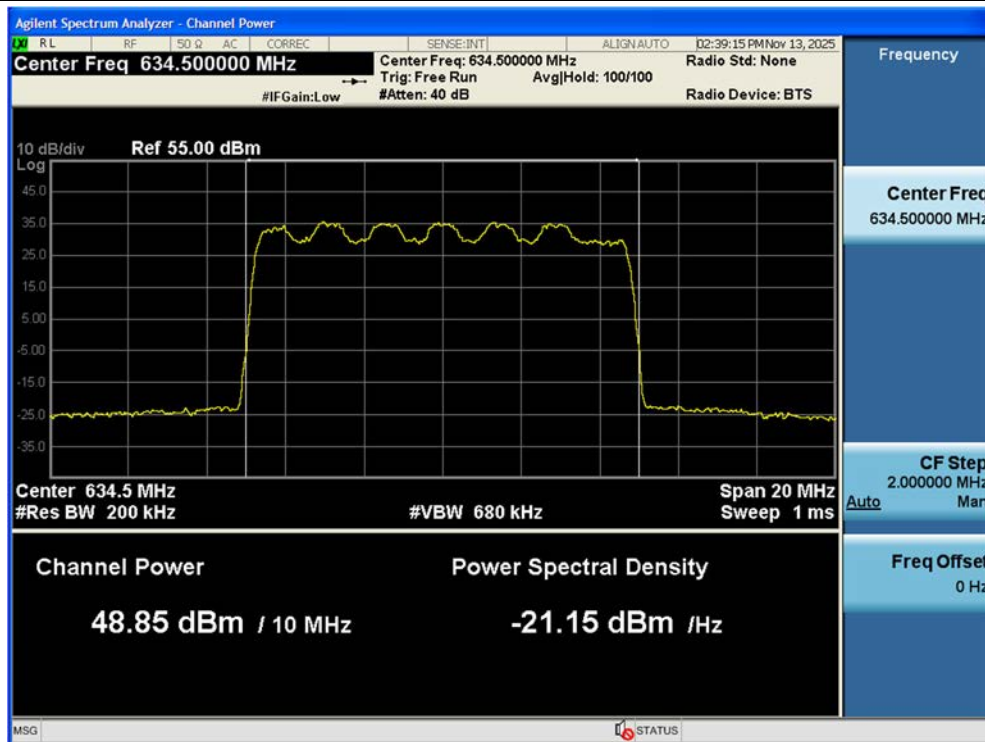
Frequency (MHz)	Output Power (Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
619.5, 642.0, 743.5	415.39	431.16	413.22	412.07

Plot Data of RF Output Power

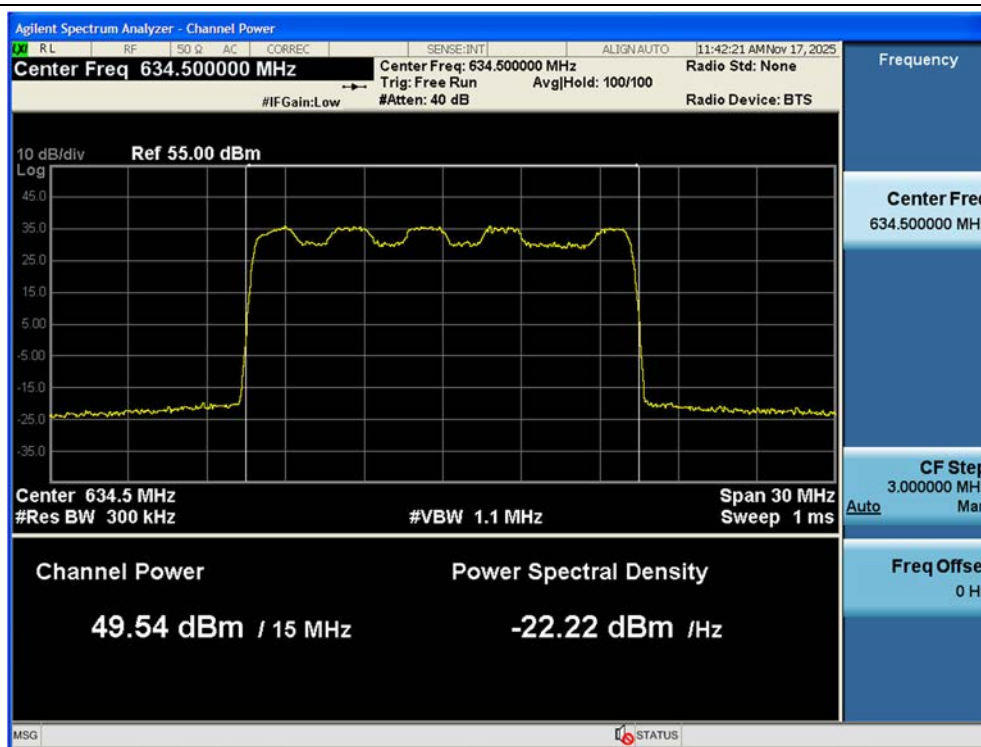
Antenna 2 / (4 Port) n71 5G NR 5 MHz 1 Carrier / 64QAM / Low



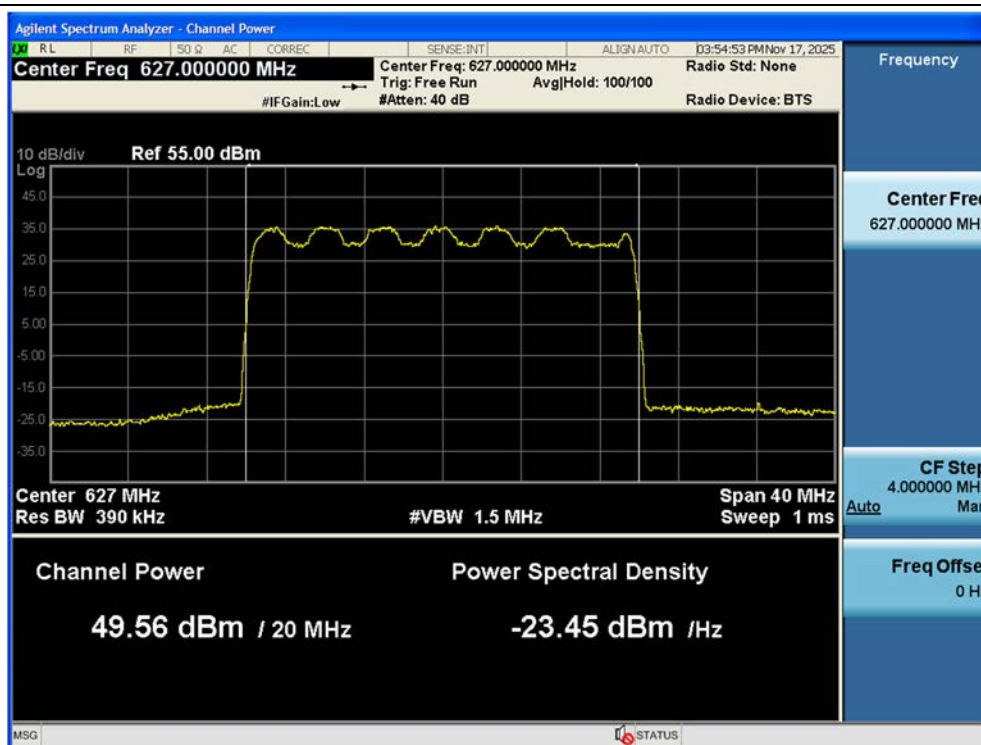
Antenna 2 / (4 Port) n71 5G NR 10 MHz 1 Carrier / 16QAM / Middle



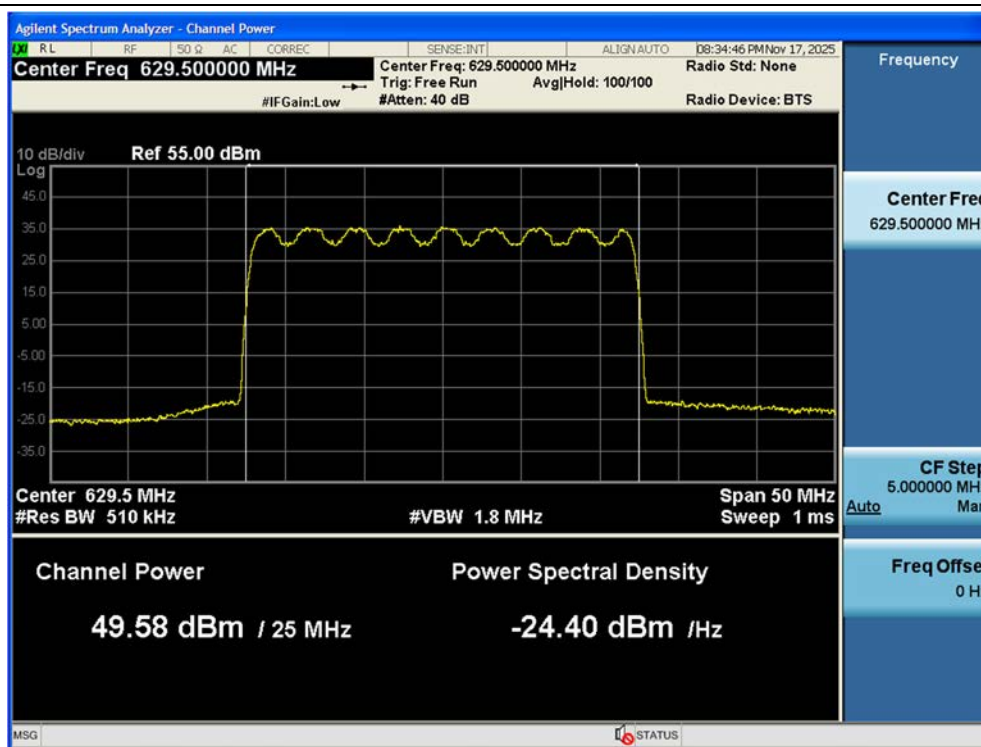
Antenna 2 / (4 Port) n71 5G NR 15 MHz 1 Carrier / 16QAM / Middle



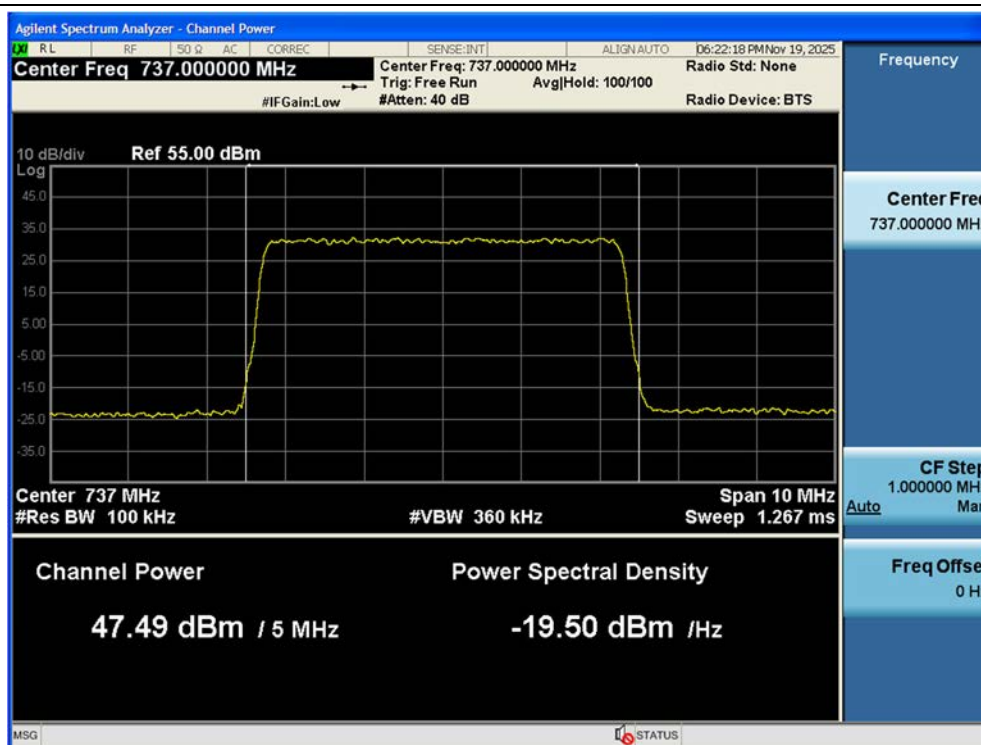
Antenna 2 / (4 Port) n71 5G NR 20 MHz 1 Carrier / 16QAM / Low



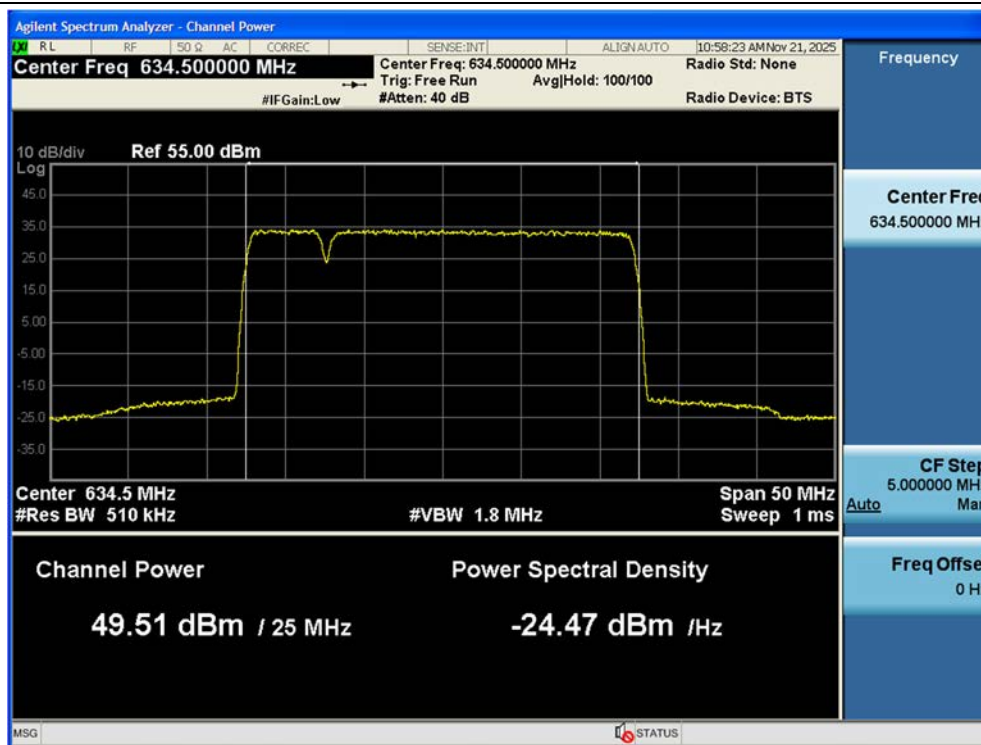
Antenna 2 / (4 Port) n71 5G NR 25 MHz 1 Carrier / 16QAM / Low



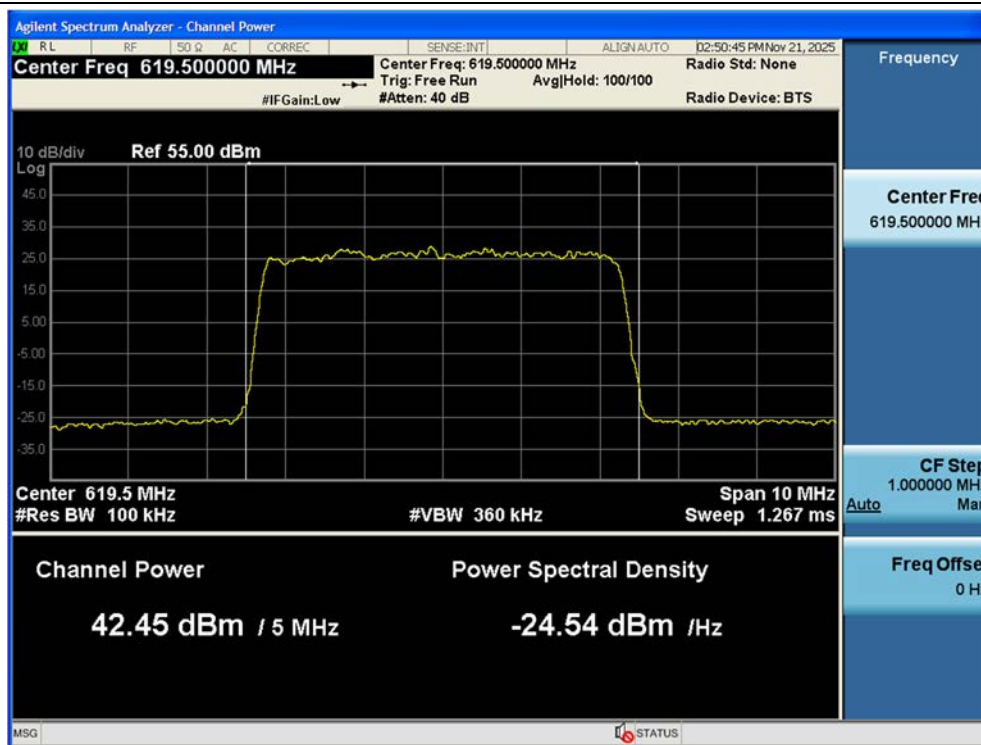
Antenna 2 / (4 Port) B85 LTE 5 MHz 1 Carrier / 256QAM / Middle



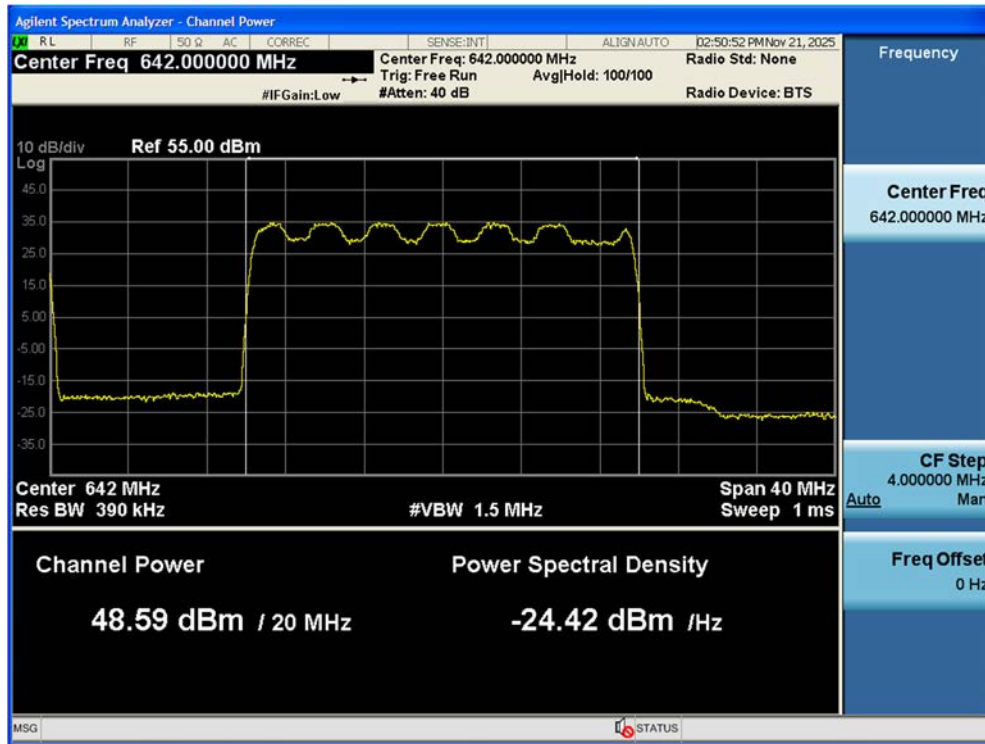
Antenna 2 / (4 Port) B71 LTE 5 MHz 1 Carrier + n71 5G NR 20 MHz 1 Carrier [2 Carrier] / QPSK / Middle / Contiguous



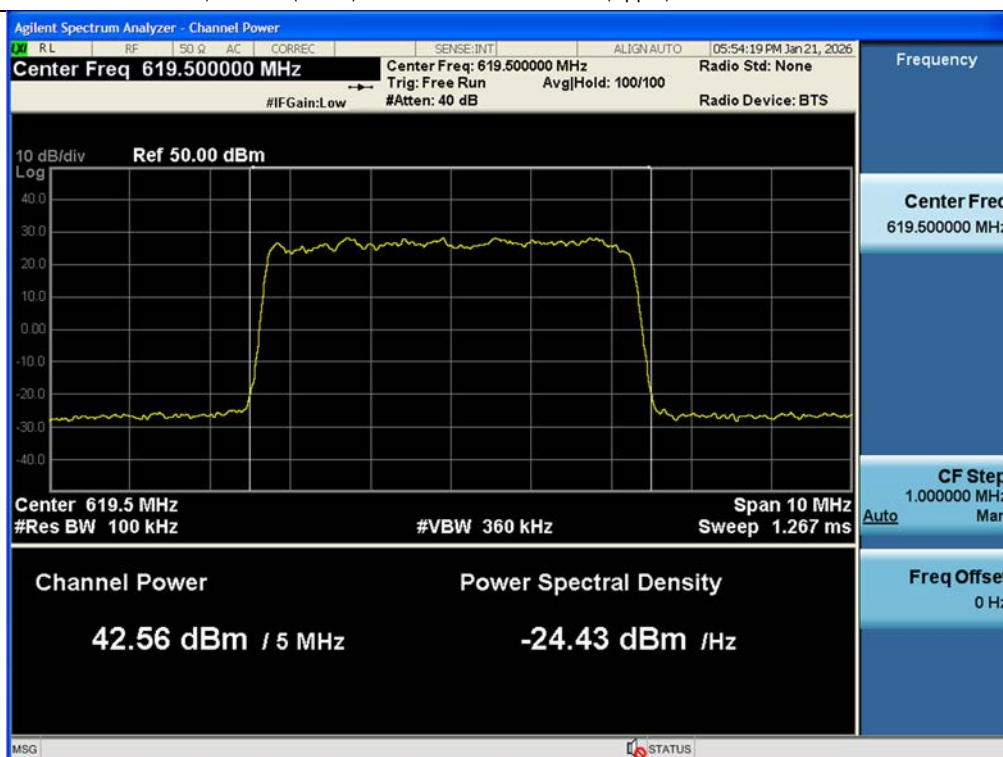
Antenna 2 / (4 Port) B71 LTE 5 MHz 1 Carrier + n71 5G NR 20 MHz 1 Carrier [2 Carrier] / 16QAM / Low / Non-Contiguous



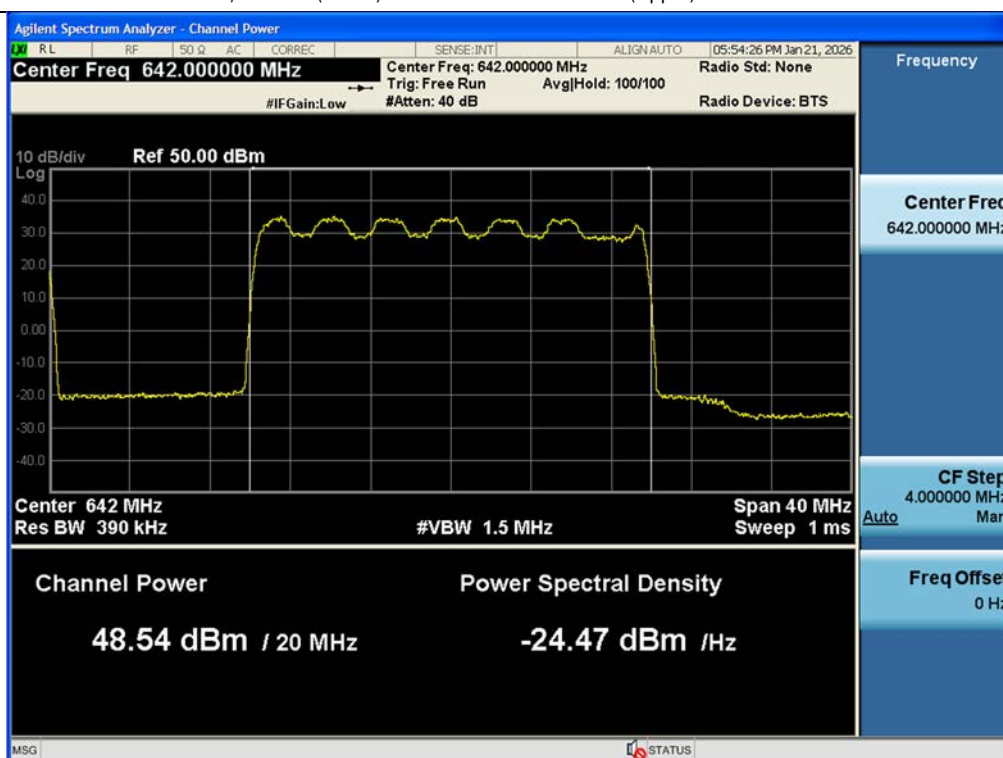
Antenna 2 / (4 Port) B71 LTE 5 MHz 1 Carrier + n71 5G NR 20 MHz 1 Carrier [2 Carrier] / 16QAM / High / Non-Contiguous



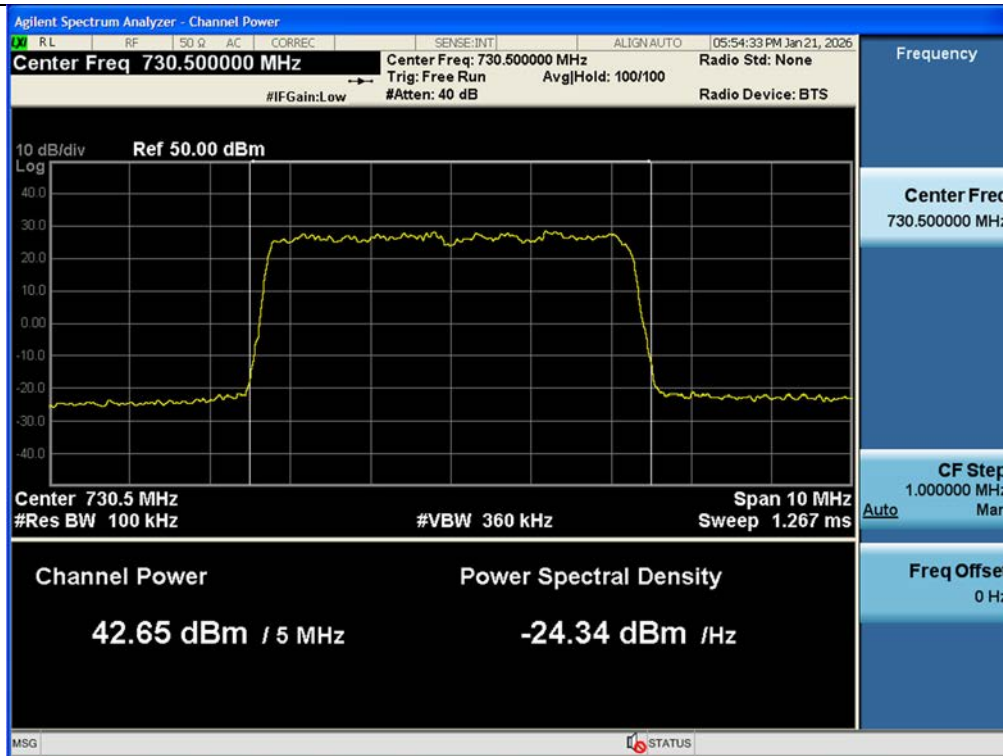
Antenna 2 / (4 Port) B71 LTE (Lower) 5 MHz 1 Carrier + n71 5G NR (Upper) 20 MHz 1 Carrier + B85 LTE (Lower) 5 MHz 1 Carrier [3 Carrier] / 16QAM / Low / Inter-band
/ B71 LTE (Lower) 5 MHz 1 Carrier + n71 5G NR (Upper) 20 MHz 1 Carrier



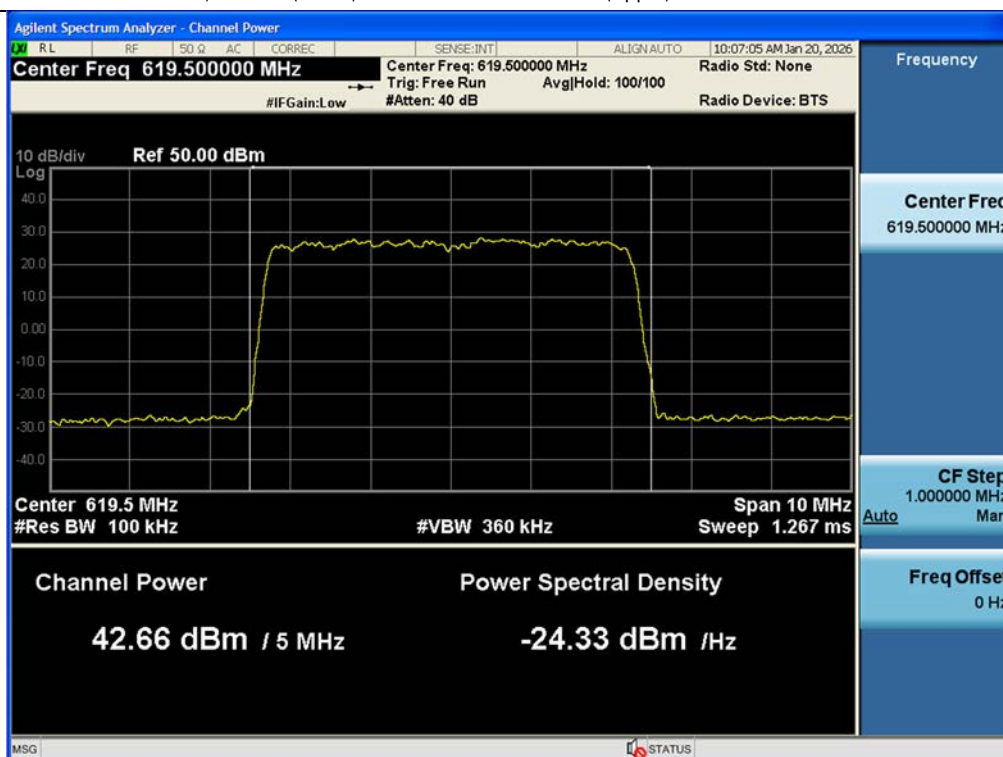
Antenna 2 / (4 Port) B71 LTE (Lower) 5 MHz 1 Carrier + n71 5G NR (Upper) 20 MHz 1 Carrier + B85 LTE (Lower) 5 MHz 1 Carrier [3 Carrier] / 16QAM / High / Inter-band / B71 LTE (Lower) 5 MHz 1 Carrier + n71 5G NR (Upper) 20 MHz 1 Carrier



Antenna 2 / (4 Port) B71 LTE (Lower) 5 MHz 1 Carrier + n71 5G NR (Upper) 20 MHz 1 Carrier + B85 LTE (Lower) 5 MHz 1 Carrier [3 Carrier] / 16QAM / Low / Inter-band
/ B85 LTE (Lower) 5 MHz 1 Carrier



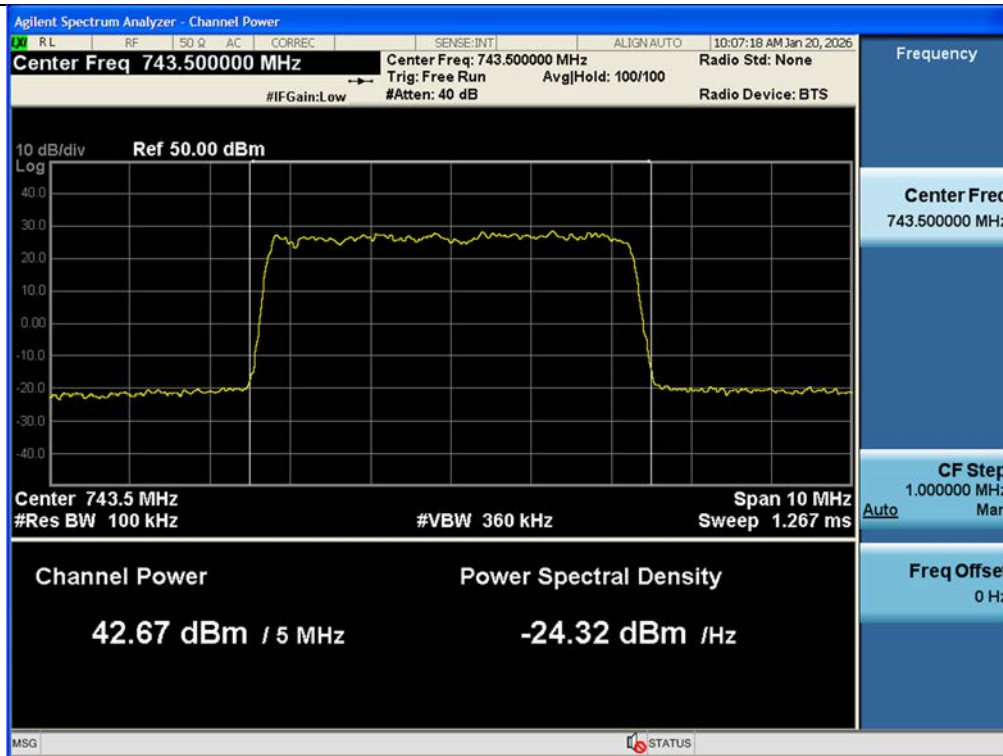
Antenna 2 / (4 Port) B71 LTE (Lower) 5 MHz 1 Carrier + n71 5G NR (Upper) 20 MHz 1 Carrier + B85 LTE (Upper) 5 MHz 1 Carrier [3 Carrier] / 16QAM / Low / Inter-band
/ B71 LTE (Lower) 5 MHz 1 Carrier + n71 5G NR (Upper) 20 MHz 1 Carrier



Antenna 2 / (4 Port) B71 LTE (Lower) 5 MHz 1 Carrier + n71 5G NR (Upper) 20 MHz 1 Carrier + B85 LTE (Upper) 5 MHz 1 Carrier [3 Carrier] / 16QAM / High / Inter-band / B71 LTE (Lower) 5 MHz 1 Carrier + n71 5G NR (Upper) 20 MHz 1 Carrier



Antenna 2 / (4 Port) B71 LTE (Lower) 5 MHz 1 Carrier + n71 5G NR (Upper) 20 MHz 1 Carrier + B85 LTE (Upper) 5 MHz 1 Carrier [3 Carrier] / 16QAM / High / Inter-band / B85 LTE (Upper) 5 MHz 1 Carrier



Test Results:

Tabular Data of RF PSD

(4 Port) n71 5G NR 5 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	Measured Value (dBm/MHz)	Calculated (W/MHz)
0	QPSK	Low	619.50	41.59	14.43
		Middle	634.50	41.56	14.31
		High	649.50	41.64	14.58
	16QAM	Low	619.50	41.97	15.72
		Middle	634.50	41.82	15.20
		High	649.50	41.73	14.88
	64QAM	Low	619.50	41.57	14.36
		Middle	634.50	41.85	15.32
		High	649.50	41.79	15.11
	256QAM	Low	619.50	41.77	15.03
		Middle	634.50	41.59	14.43
		High	649.50	41.42	13.87
1	QPSK	Low	619.50	41.84	15.27
		Middle	634.50	41.66	14.64
		High	649.50	41.70	14.78
	16QAM	Low	619.50	41.74	14.94
		Middle	634.50	41.87	15.40
		High	649.50	42.00	15.86
	64QAM	Low	619.50	41.67	14.68
		Middle	634.50	41.58	14.38
		High	649.50	41.71	14.81
	256QAM	Low	619.50	41.70	14.79
		Middle	634.50	41.39	13.78
		High	649.50	41.58	14.39
2	QPSK	Low	619.50	41.71	14.83
		Middle	634.50	41.73	14.88
		High	649.50	41.69	14.74
	16QAM	Low	619.50	41.94	15.64
		Middle	634.50	42.04	16.01
		High	649.50	41.78	15.05
	64QAM	Low	619.50	41.88	15.41
		Middle	634.50	41.77	15.02
		High	649.50	41.76	15.00
	256QAM	Low	619.50	41.98	15.79
		Middle	634.50	41.56	14.32
		High	649.50	41.81	15.19
3	QPSK	Low	619.50	41.54	14.26
		Middle	634.50	41.56	14.32
		High	649.50	41.61	14.47
	16QAM	Low	619.50	41.83	15.24
		Middle	634.50	41.85	15.30
		High	649.50	41.86	15.35
	64QAM	Low	619.50	41.61	14.48
		Middle	634.50	41.63	14.54
		High	649.50	41.40	13.81
	256QAM	Low	619.50	41.55	14.28
		Middle	634.50	41.48	14.07
		High	649.50	41.46	14.01

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

Frequency (MHz)	E.R.P.				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
619.50	916.98	959.78	919.06	933.89	1 000
634.50	906.79	965.44	924.15	882.62	
649.50	913.54	953.51	915.94	896.00	
Frequency (MHz)	E.R.P.				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
619.50	1 833.84	1 919.43	1 837.99	1 867.65	2 000
634.50	1 813.46	1 930.74	1 848.17	1 765.12	
649.50	1 826.96	1 906.90	1 831.75	1 791.87	

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

- 1000 watts/MHz limit: 14.08 dBi
- 2000 watts/MHz limit: 17.09 dBi

(4 Port) n71 5G NR 10 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	Measured Value (dBm/MHz)	Calculated (W/MHz)
0	QPSK	Low	622.00	39.89	9.75
		Middle	634.50	39.51	8.93
		High	647.00	39.73	9.40
	16QAM	Low	622.00	40.94	12.42
		Middle	634.50	40.79	12.00
		High	647.00	40.98	12.54
	64QAM	Low	622.00	39.81	9.57
		Middle	634.50	39.87	9.70
		High	647.00	39.70	9.34
	256QAM	Low	622.00	39.74	9.42
		Middle	634.50	39.84	9.64
		High	647.00	39.66	9.24
1	QPSK	Low	622.00	39.71	9.35
		Middle	634.50	39.71	9.35
		High	647.00	39.59	9.11
	16QAM	Low	622.00	41.18	13.12
		Middle	634.50	40.82	12.09
		High	647.00	41.24	13.31
	64QAM	Low	622.00	40.01	10.02
		Middle	634.50	39.95	9.89
		High	647.00	39.89	9.75
	256QAM	Low	622.00	39.90	9.76
		Middle	634.50	39.70	9.34
		High	647.00	39.79	9.53
2	QPSK	Low	622.00	40.10	10.23
		Middle	634.50	39.78	9.50
		High	647.00	39.86	9.69
	16QAM	Low	622.00	41.05	12.74
		Middle	634.50	40.76	11.91
		High	647.00	40.94	12.42
	64QAM	Low	622.00	40.03	10.08
		Middle	634.50	40.06	10.15
		High	647.00	40.08	10.20
	256QAM	Low	622.00	40.25	10.59
		Middle	634.50	39.72	9.38
		High	647.00	39.88	9.72
3	QPSK	Low	622.00	39.90	9.77
		Middle	634.50	39.88	9.73
		High	647.00	39.89	9.75
	16QAM	Low	622.00	40.77	11.95
		Middle	634.50	40.66	11.63
		High	647.00	40.90	12.31
	64QAM	Low	622.00	39.67	9.26
		Middle	634.50	39.81	9.57
		High	647.00	39.74	9.42
	256QAM	Low	622.00	39.66	9.24
		Middle	634.50	39.64	9.20
		High	647.00	39.74	9.42

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

Frequency (MHz)	E.R.P.				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
622.00	609.69	783.32	607.07	608.40	1 000
634.50	584.96	742.81	612.93	585.79	
647.00	591.78	788.98	603.72	591.30	
Frequency (MHz)	E.R.P.				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
622.00	1 219.30	1 566.53	1 214.06	1 216.71	2 000
634.50	1 169.84	1 485.52	1 225.77	1 171.49	
647.00	1 183.47	1 577.86	1 207.36	1 182.52	

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

- 1000 watts/MHz limit: 14.08 dBi
- 2000 watts/MHz limit: 17.09 dBi

(4 Port) n71 5G NR 15 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	Measured Value (dBm/MHz)	Calculated (W/MHz)
0	QPSK	Low	624.50	38.93	7.82
		Middle	634.50	38.99	7.92
		High	644.50	38.90	7.76
	16QAM	Low	624.50	40.07	10.15
		Middle	634.50	40.59	11.46
		High	644.50	40.24	10.58
	64QAM	Low	624.50	39.09	8.12
		Middle	634.50	39.00	7.95
		High	644.50	38.93	7.81
	256QAM	Low	624.50	38.95	7.86
		Middle	634.50	38.89	7.75
		High	644.50	39.02	7.99
1	QPSK	Low	624.50	39.15	8.22
		Middle	634.50	38.99	7.93
		High	644.50	39.12	8.17
	16QAM	Low	624.50	40.38	10.91
		Middle	634.50	40.73	11.82
		High	644.50	40.44	11.07
	64QAM	Low	624.50	38.97	7.88
		Middle	634.50	39.11	8.14
		High	644.50	39.07	8.07
	256QAM	Low	624.50	38.98	7.90
		Middle	634.50	38.81	7.60
		High	644.50	39.04	8.01
2	QPSK	Low	624.50	39.03	8.00
		Middle	634.50	39.41	8.73
		High	644.50	39.16	8.23
	16QAM	Low	624.50	40.58	11.43
		Middle	634.50	40.46	11.12
		High	644.50	40.70	11.76
	64QAM	Low	624.50	39.17	8.27
		Middle	634.50	39.32	8.54
		High	644.50	39.04	8.02
	256QAM	Low	624.50	39.05	8.03
		Middle	634.50	39.04	8.02
		High	644.50	39.09	8.11
3	QPSK	Low	624.50	38.73	7.46
		Middle	634.50	38.96	7.87
		High	644.50	39.10	8.12
	16QAM	Low	624.50	40.34	10.81
		Middle	634.50	40.32	10.76
		High	644.50	40.21	10.50
	64QAM	Low	624.50	38.98	7.91
		Middle	634.50	38.83	7.63
		High	644.50	39.05	8.04
	256QAM	Low	624.50	38.75	7.50
		Middle	634.50	38.78	7.56
		High	644.50	39.00	7.94

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

Frequency (MHz)	E.R.P.				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
624.50	491.37	675.36	501.73	488.08	1 000
634.50	505.92	704.34	503.25	482.41	
644.50	503.49	684.64	498.23	499.73	

Frequency (MHz)	E.R.P.				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
624.50	982.66	1 350.62	1 003.39	976.09	2 000
634.50	1 011.78	1 408.58	1 006.42	964.74	
644.50	1 006.91	1 369.18	996.39	999.39	

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

- 1000 watts/MHz limit: 14.08 dBi
- 2000 watts/MHz limit: 17.09 dBi

(4 Port) n71 5G NR 20 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	Measured Value (dBm/MHz)	Calculated (W/MHz)
0	QPSK	Low	627.00	37.66	5.83
		Middle	634.50	37.53	5.66
		High	642.00	37.56	5.71
	16QAM	Low	627.00	39.14	8.20
		Middle	634.50	39.26	8.44
		High	642.00	39.38	8.67
	64QAM	Low	627.00	37.72	5.92
		Middle	634.50	37.82	6.05
		High	642.00	37.84	6.09
	256QAM	Low	627.00	37.62	5.79
		Middle	634.50	37.83	6.06
		High	642.00	37.74	5.94
1	QPSK	Low	627.00	37.62	5.79
		Middle	634.50	37.52	5.65
		High	642.00	37.76	5.98
	16QAM	Low	627.00	39.29	8.49
		Middle	634.50	39.33	8.56
		High	642.00	39.19	8.29
	64QAM	Low	627.00	37.74	5.94
		Middle	634.50	37.62	5.79
		High	642.00	38.06	6.40
	256QAM	Low	627.00	37.72	5.92
		Middle	634.50	37.66	5.84
		High	642.00	37.63	5.80
2	QPSK	Low	627.00	37.91	6.19
		Middle	634.50	37.86	6.12
		High	642.00	37.96	6.25
	16QAM	Low	627.00	39.38	8.66
		Middle	634.50	39.30	8.52
		High	642.00	39.31	8.53
	64QAM	Low	627.00	37.64	5.81
		Middle	634.50	38.04	6.37
		High	642.00	37.90	6.17
	256QAM	Low	627.00	38.07	6.41
		Middle	634.50	38.05	6.38
		High	642.00	37.96	6.26
3	QPSK	Low	627.00	37.64	5.81
		Middle	634.50	37.91	6.19
		High	642.00	37.76	5.97
	16QAM	Low	627.00	39.12	8.17
		Middle	634.50	39.21	8.33
		High	642.00	39.32	8.56
	64QAM	Low	627.00	37.51	5.64
		Middle	634.50	37.61	5.77
		High	642.00	37.95	6.24
	256QAM	Low	627.00	37.93	6.21
		Middle	634.50	37.85	6.10
		High	642.00	37.91	6.19

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

Frequency (MHz)	E.R.P.				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
627.00	368.32	522.67	363.48	379.54	1 000
634.50	368.20	527.94	373.97	380.12	
642.00	372.74	530.99	388.31	377.17	
Frequency (MHz)	E.R.P.				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
627.00	736.59	1 045.27	726.91	759.03	2 000
634.50	736.36	1 055.80	747.90	760.19	
642.00	745.43	1 061.92	776.57	754.29	

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

- 1000 watts/MHz limit: 14.08 dBi
- 2000 watts/MHz limit: 17.09 dBi

(4 Port) n71 5G NR 25 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	Measured Value (dBm/MHz)	Calculated (W/MHz)
0	QPSK	Low	629.50	36.73	4.71
		Middle	634.50	36.48	4.45
		High	639.50	36.71	4.69
	16QAM	Low	629.50	38.05	6.38
		Middle	634.50	37.73	5.93
		High	639.50	38.10	6.46
	64QAM	Low	629.50	36.81	4.80
		Middle	634.50	36.91	4.91
		High	639.50	36.72	4.70
	256QAM	Low	629.50	36.77	4.75
		Middle	634.50	36.57	4.54
		High	639.50	36.72	4.70
1	QPSK	Low	629.50	36.81	4.80
		Middle	634.50	36.67	4.64
		High	639.50	36.79	4.77
	16QAM	Low	629.50	38.15	6.53
		Middle	634.50	37.81	6.04
		High	639.50	38.11	6.47
	64QAM	Low	629.50	36.86	4.86
		Middle	634.50	36.69	4.67
		High	639.50	36.79	4.77
	256QAM	Low	629.50	36.76	4.75
		Middle	634.50	36.77	4.76
		High	639.50	36.89	4.89
2	QPSK	Low	629.50	36.78	4.77
		Middle	634.50	36.91	4.91
		High	639.50	36.78	4.77
	16QAM	Low	629.50	38.13	6.50
		Middle	634.50	38.19	6.59
		High	639.50	38.08	6.42
	64QAM	Low	629.50	36.88	4.88
		Middle	634.50	36.79	4.77
		High	639.50	36.97	4.98
	256QAM	Low	629.50	36.87	4.87
		Middle	634.50	36.73	4.71
		High	639.50	36.97	4.98
3	QPSK	Low	629.50	36.74	4.72
		Middle	634.50	36.57	4.54
		High	639.50	37.07	5.10
	16QAM	Low	629.50	38.14	6.52
		Middle	634.50	38.16	6.55
		High	639.50	38.26	6.70
	64QAM	Low	629.50	36.52	4.49
		Middle	634.50	36.69	4.67
		High	639.50	36.70	4.68
	256QAM	Low	629.50	36.79	4.78
		Middle	634.50	36.59	4.56
		High	639.50	36.92	4.92

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

Frequency (MHz)	E.R.P.				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
629.50	296.31	404.37	296.68	298.48	1 000
634.50	289.05	391.59	296.62	289.66	
639.50	301.47	406.34	298.23	304.00	

Frequency (MHz)	E.R.P.				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
629.50	592.59	808.68	593.31	596.91	2 000
634.50	578.06	783.12	593.20	579.29	
639.50	602.90	812.62	596.42	607.97	

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

- 1000 watts/MHz limit: 14.08 dBi
- 2000 watts/MHz limit: 17.09 dBi

(4 Port) B85 LTE 5 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	Measured Value (dBm/MHz)	Calculated (W/MHz)
0	QPSK	Low	730.50	41.46	13.98
		Middle	737.00	41.59	14.42
		High	743.50	41.49	14.09
	16QAM	Low	730.50	41.73	14.91
		Middle	737.00	42.14	16.38
		High	743.50	41.95	15.65
	64QAM	Low	730.50	41.49	14.10
		Middle	737.00	41.91	15.53
		High	743.50	41.75	14.96
	256QAM	Low	730.50	41.60	14.45
		Middle	737.00	42.14	16.38
		High	743.50	41.60	14.45
1	QPSK	Low	730.50	41.39	13.78
		Middle	737.00	41.73	14.89
		High	743.50	41.68	14.73
	16QAM	Low	730.50	41.79	15.09
		Middle	737.00	41.92	15.55
		High	743.50	41.82	15.19
	64QAM	Low	730.50	41.72	14.85
		Middle	737.00	41.88	15.43
		High	743.50	41.64	14.60
	256QAM	Low	730.50	41.62	14.50
		Middle	737.00	41.95	15.68
		High	743.50	41.58	14.38
2	QPSK	Low	730.50	41.78	15.06
		Middle	737.00	41.73	14.89
		High	743.50	41.81	15.18
	16QAM	Low	730.50	42.09	16.17
		Middle	737.00	42.15	16.42
		High	743.50	42.30	16.99
	64QAM	Low	730.50	41.68	14.72
		Middle	737.00	41.99	15.81
		High	743.50	41.91	15.51
	256QAM	Low	730.50	41.73	14.90
		Middle	737.00	41.92	15.55
		High	743.50	41.70	14.79
3	QPSK	Low	730.50	41.67	14.69
		Middle	737.00	41.57	14.37
		High	743.50	41.67	14.68
	16QAM	Low	730.50	41.90	15.48
		Middle	737.00	41.95	15.66
		High	743.50	41.63	14.57
	64QAM	Low	730.50	41.62	14.50
		Middle	737.00	41.62	14.53
		High	743.50	41.69	14.76
	256QAM	Low	730.50	41.71	14.82
		Middle	737.00	41.96	15.69
		High	743.50	41.70	14.81

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

Frequency (MHz)	E.R.P.				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
730.50	896.95	961.41	907.24	915.16	1 000
737.00	913.42	998.30	956.14	987.11	
743.50	915.02	973.26	933.22	911.25	

Frequency (MHz)	E.R.P.				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
730.50	1 793.78	1 922.69	1 814.35	1 830.20	2 000
737.00	1 826.72	1 996.46	1 912.16	1 974.09	
743.50	1 829.91	1 946.39	1 866.32	1 822.38	

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

- 1000 watts/MHz limit: 14.08 dBi
- 2000 watts/MHz limit: 17.09 dBi

Tabular Data of RF Contiguous PSD

(4 Port) B71 LTE 5 MHz 1 Carrier + n71 5G NR 20 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	Measured Value (dBm/MHz)	Calculated (W/MHz)
0	QPSK	Low	629.50	36.82	4.81
		Middle	634.50	36.84	4.83
		High	639.50	36.71	4.69
	16QAM	Low	629.50	38.00	6.31
		Middle	634.50	38.05	6.39
		High	639.50	38.29	6.74
	64QAM	Low	629.50	36.65	4.62
		Middle	634.50	36.64	4.61
		High	639.50	37.17	5.21
	256QAM	Low	629.50	36.70	4.68
		Middle	634.50	36.90	4.90
		High	639.50	36.97	4.97
1	QPSK	Low	629.50	36.80	4.78
		Middle	634.50	36.76	4.74
		High	639.50	37.36	5.45
	16QAM	Low	629.50	38.25	6.69
		Middle	634.50	38.31	6.77
		High	639.50	38.40	6.91
	64QAM	Low	629.50	36.63	4.60
		Middle	634.50	36.72	4.70
		High	639.50	36.77	4.75
	256QAM	Low	629.50	36.82	4.80
		Middle	634.50	36.83	4.82
		High	639.50	37.15	5.19
2	QPSK	Low	629.50	36.98	4.98
		Middle	634.50	36.99	5.00
		High	639.50	37.01	5.02
	16QAM	Low	629.50	38.44	6.98
		Middle	634.50	38.29	6.74
		High	639.50	38.42	6.95
	64QAM	Low	629.50	36.81	4.80
		Middle	634.50	37.40	5.50
		High	639.50	37.06	5.08
	256QAM	Low	629.50	36.78	4.76
		Middle	634.50	36.99	5.00
		High	639.50	36.95	4.96
3	QPSK	Low	629.50	36.57	4.54
		Middle	634.50	36.87	4.86
		High	639.50	36.74	4.72
	16QAM	Low	629.50	38.10	6.46
		Middle	634.50	38.19	6.59
		High	639.50	38.48	7.05
	64QAM	Low	629.50	36.74	4.72
		Middle	634.50	36.69	4.67
		High	639.50	37.03	5.05
	256QAM	Low	629.50	36.76	4.74
		Middle	634.50	36.71	4.69
		High	639.50	36.60	4.57

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

Frequency (MHz)	E.R.P.				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
629.50	298.09	412.22	292.24	296.11	1 000
634.50	303.01	413.17	303.75	302.65	
639.50	310.08	431.21	313.26	307.04	

Frequency (MHz)	E.R.P.				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
629.50	596.13	824.38	584.45	592.19	2 000
634.50	605.98	826.28	607.46	605.25	
639.50	620.12	862.36	626.48	614.03	

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

- 1000 watts/MHz limit: 14.08 dBi
- 2000 watts/MHz limit: 17.09 dBi

Tabular Data of RF Non-Contiguous PSD

(4 Port) B71 LTE 5 MHz 1 Carrier + n71 5G NR 20 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Frequency (MHz)	Measured Value (dBm/MHz)	Calculated (W/MHz)
0	QPSK	619.50, 642.00	36.95	4.95
	16QAM	619.50, 642.00	38.18	6.57
	64QAM	619.50, 642.00	36.94	4.95
	256QAM	619.50, 642.00	37.03	5.05
1	QPSK	619.50, 642.00	36.79	4.77
	16QAM	619.50, 642.00	38.35	6.83
	64QAM	619.50, 642.00	37.20	5.24
	256QAM	619.50, 642.00	37.07	5.09
2	QPSK	619.50, 642.00	37.20	5.24
	16QAM	619.50, 642.00	38.54	7.15
	64QAM	619.50, 642.00	37.03	5.05
	256QAM	619.50, 642.00	37.24	5.29
3	QPSK	619.50, 642.00	36.78	4.77
	16QAM	619.50, 642.00	38.28	6.73
	64QAM	619.50, 642.00	37.07	5.09
	256QAM	619.50, 642.00	36.89	4.89

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

Frequency (MHz)	E.R.P.				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
619.50, 642.00	307.75	425.54	317.09	316.99	1 000

Frequency (MHz)	E.R.P.				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
619.50, 642.00	615.46	851.01	634.14	633.94	2 000

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

- 1000 watts/MHz limit: 14.08 dBi
- 2000 watts/MHz limit: 17.09 dBi

Tabular Data of RF Inter-band PSD

(4 Port) B71 LTE (Lower) 5 MHz 1 Carrier + n71 5G NR (Upper) 20 MHz 1 Carrier + B85 LTE (Lower) 5 MHz 1 Carrier [3 Carrier]

Ant.	Mod	B/n71			B85		
		Frequency (MHz)	Measured Value (dBm/MHz)	Calculated (W/MHz)	Frequency (MHz)	Measured Value (dBm/MHz)	Calculated (W/MHz)
0	QPSK	619.5, 642.0	37.04	5.06	730.5	37.10	5.13
	16QAM	619.5, 642.0	38.24	6.67	730.5	37.30	5.37
	64QAM	619.5, 642.0	36.98	4.98	730.5	36.82	4.81
	256QAM	619.5, 642.0	36.93	4.93	730.5	36.96	4.96
1	QPSK	619.5, 642.0	36.97	4.98	730.5	36.66	4.63
	16QAM	619.5, 642.0	38.13	6.50	730.5	37.20	5.25
	64QAM	619.5, 642.0	37.24	5.30	730.5	37.12	5.15
	256QAM	619.5, 642.0	37.23	5.28	730.5	37.12	5.15
2	QPSK	619.5, 642.0	37.20	5.25	730.5	37.00	5.02
	16QAM	619.5, 642.0	38.44	6.99	730.5	37.47	5.58
	64QAM	619.5, 642.0	37.04	5.06	730.5	37.18	5.23
	256QAM	619.5, 642.0	37.20	5.25	730.5	37.11	5.15
3	QPSK	619.5, 642.0	36.74	4.72	730.5	36.81	4.79
	16QAM	619.5, 642.0	38.58	7.22	730.5	37.22	5.28
	64QAM	619.5, 642.0	36.94	4.94	730.5	37.16	5.20
	256QAM	619.5, 642.0	36.91	4.91	730.5	36.92	4.92

(B/n71) Sum Data of Port 0, Port 1, Port 2 and Port 3

Frequency (MHz)	E.R.P.				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
619.5, 642.0	312.00	426.91	316.37	317.71	1 000
	623.96	853.76	632.69	635.37	2 000

(B85) Sum Data of Port 0, Port 1, Port 2 and Port 3

Frequency (MHz)	E.R.P.				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
730.5	305.14	334.92	318.01	314.68	1 000
	610.25	669.79	635.97	629.31	2 000

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

- 1000 watts/MHz limit: 14.08 dBi
- 2000 watts/MHz limit: 17.09 dBi

(4 Port) B71 LTE (Lower) 5 MHz 1 Carrier + n71 5G NR (Upper) 20 MHz 1 Carrier + B85 LTE (Upper) 5 MHz 1 Carrier [3 Carrier]

Ant.	Mod	B/n71			B85		
		Frequency (MHz)	Measured Value (dBm/MHz)	Calculated (W/MHz)	Frequency (MHz)	Measured Value (dBm/MHz)	Calculated (W/MHz)
0	QPSK	619.5, 642.0	36.77	4.76	743.5	36.94	4.94
	16QAM	619.5, 642.0	38.34	6.82	743.5	37.16	5.21
	64QAM	619.5, 642.0	36.89	4.89	743.5	36.70	4.67
	256QAM	619.5, 642.0	36.81	4.79	743.5	37.07	5.09
1	QPSK	619.5, 642.0	37.09	5.12	743.5	36.95	4.96
	16QAM	619.5, 642.0	38.47	7.02	743.5	37.24	5.29
	64QAM	619.5, 642.0	37.04	5.06	743.5	36.93	4.93
	256QAM	619.5, 642.0	36.94	4.94	743.5	37.11	5.15
2	QPSK	619.5, 642.0	37.05	5.07	743.5	37.41	5.51
	16QAM	619.5, 642.0	38.64	7.31	743.5	37.46	5.58
	64QAM	619.5, 642.0	37.16	5.20	743.5	36.96	4.97
	256QAM	619.5, 642.0	37.21	5.26	743.5	37.12	5.16
3	QPSK	619.5, 642.0	36.91	4.91	743.5	36.79	4.77
	16QAM	619.5, 642.0	38.20	6.60	743.5	37.27	5.33
	64QAM	619.5, 642.0	36.89	4.88	743.5	36.88	4.87
	256QAM	619.5, 642.0	36.89	4.88	743.5	37.05	5.07

(B/n71) Sum Data of Port 0, Port 1, Port 2 and Port 3

Frequency (MHz)	E.R.P.				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
619.5, 642.0	309.72	432.85	312.30	310.04	1 000
	619.40	865.63	624.55	620.03	2 000

(B85) Sum Data of Port 0, Port 1, Port 2 and Port 3

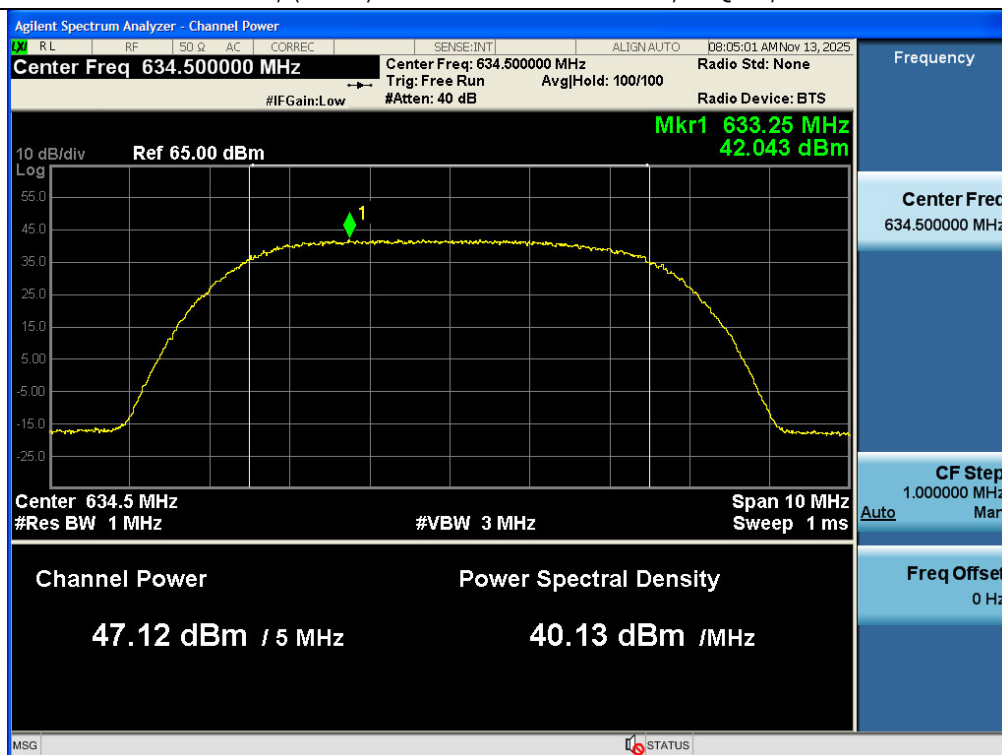
Frequency (MHz)	E.R.P.				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
743.5	314.79	333.79	303.25	319.20	1 000
	629.53	667.54	606.45	638.36	2 000

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

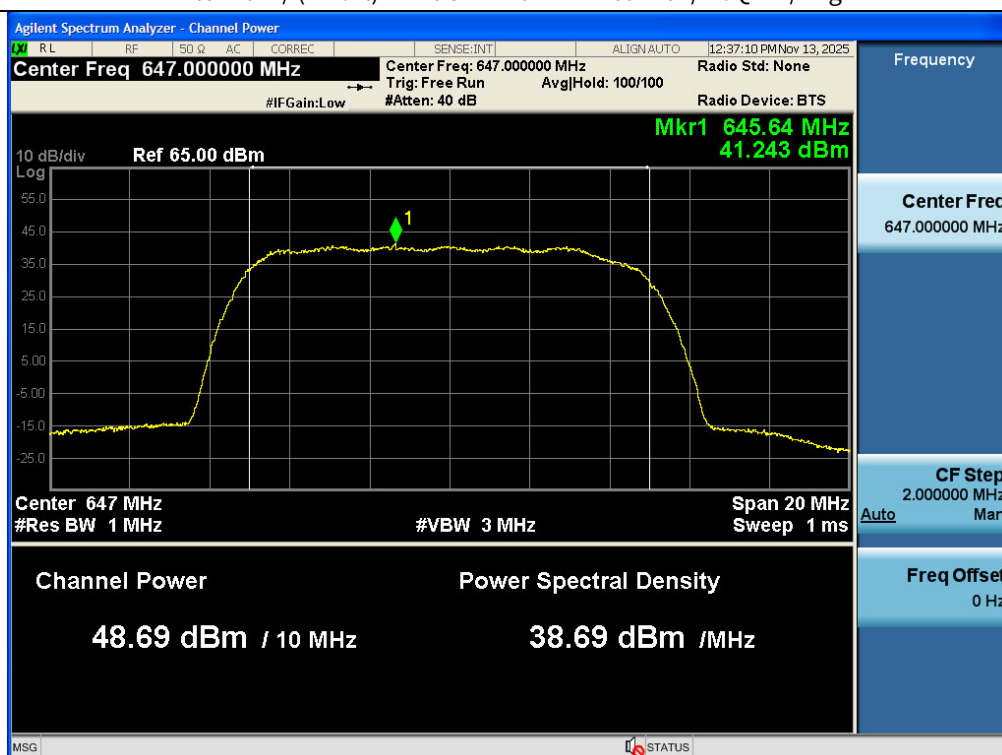
- 1000 watts/MHz limit: 14.08 dBi
- 2000 watts/MHz limit: 17.09 dBi

Plot Data of RF PSD

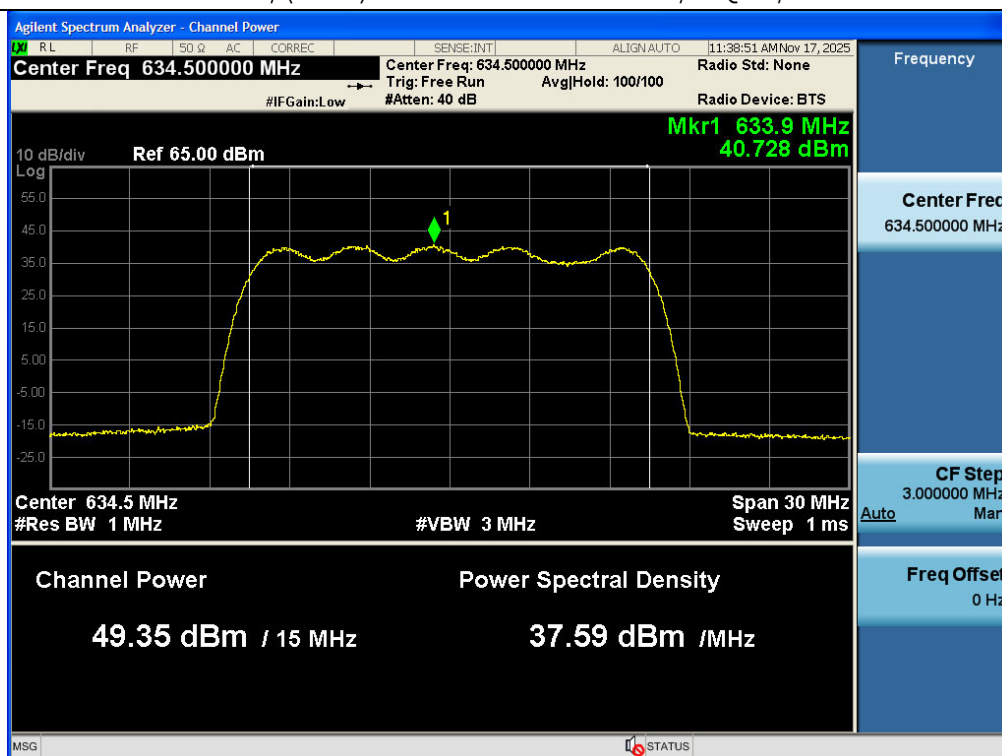
Antenna 2 / (4 Port) n71 5G NR 5 MHz 1 Carrier / 16QAM / Middle



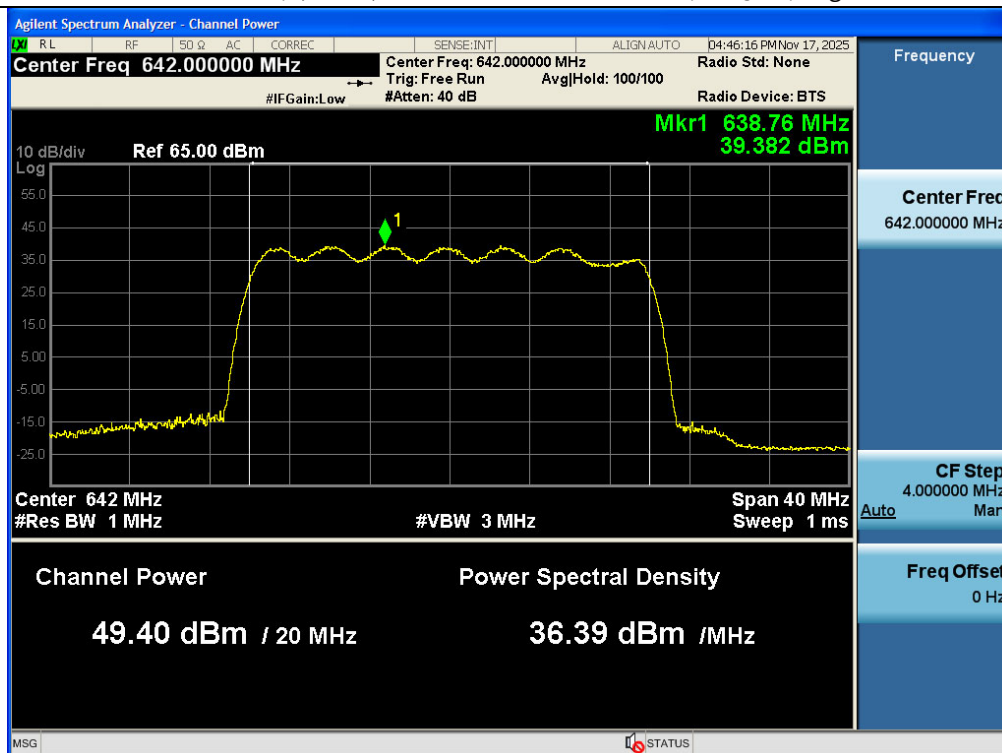
Antenna 1 / (4 Port) n71 5G NR 10 MHz 1 Carrier / 16QAM / High



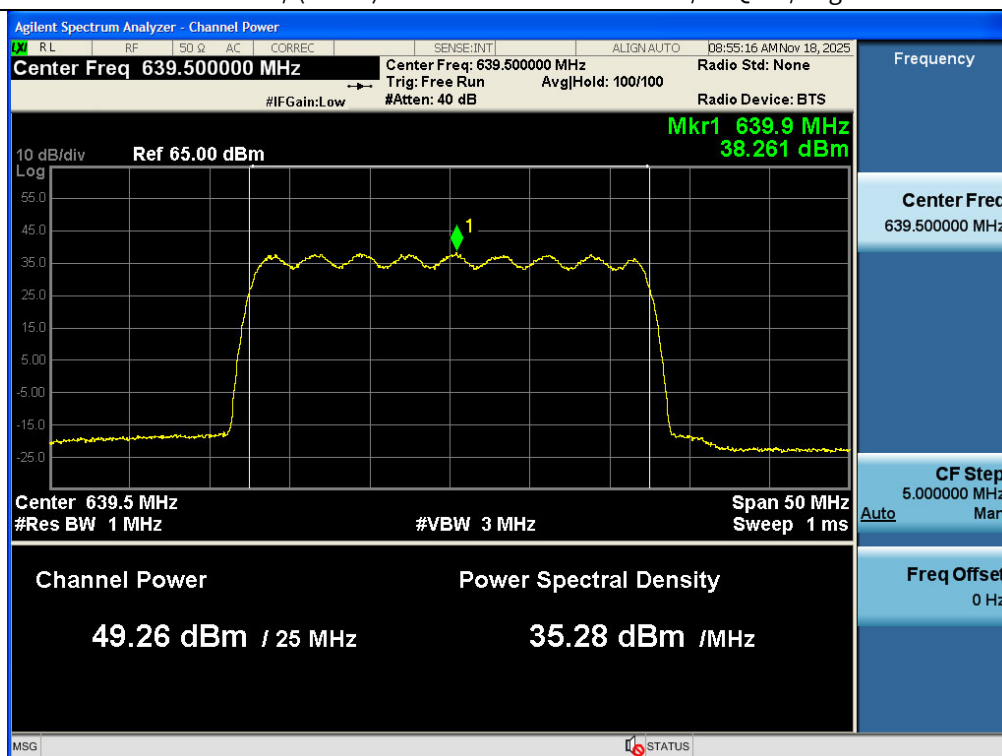
Antenna 1 / (4 Port) n71 5G NR 15 MHz 1 Carrier / 16QAM / Middle



Antenna 0 / (4 Port) n71 5G NR 20 MHz 1 Carrier / 16QAM / High



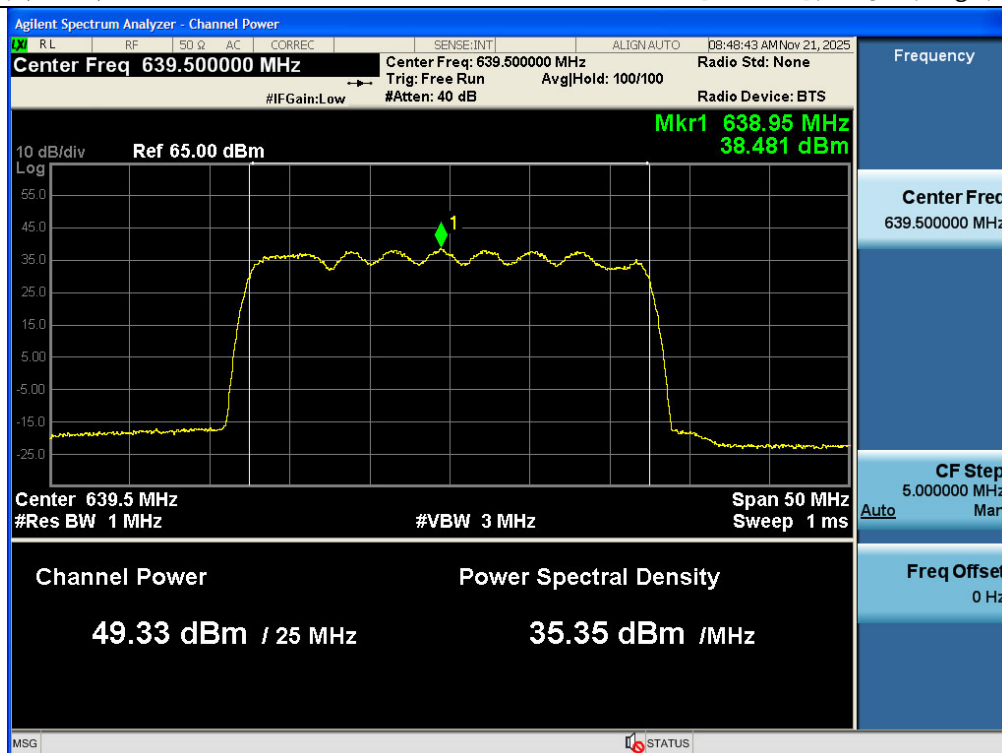
Antenna 3 / (4 Port) n71 5G NR 25 MHz 1 Carrier / 16QAM / High



Antenna 2 / (4 Port) B85 LTE 5 MHz 1 Carrier / 16QAM / High



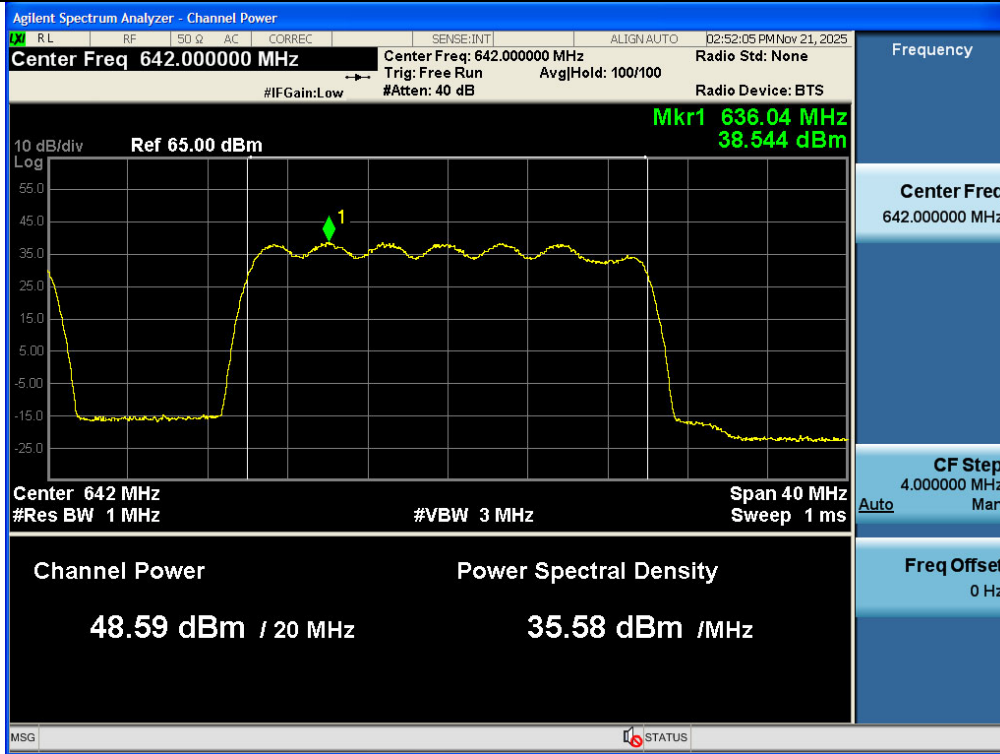
Antenna 3 / (4 Port) B71 LTE 5 MHz 1 Carrier + n71 5G NR 20 MHz 1 Carrier [2 Carrier] / 16QAM / High / Contiguous



Antenna 2 / (4 Port) B71 LTE 5 MHz 1 Carrier + n71 5G NR 20 MHz 1 Carrier [2 Carrier] / 16QAM / Low / Non-Contiguous



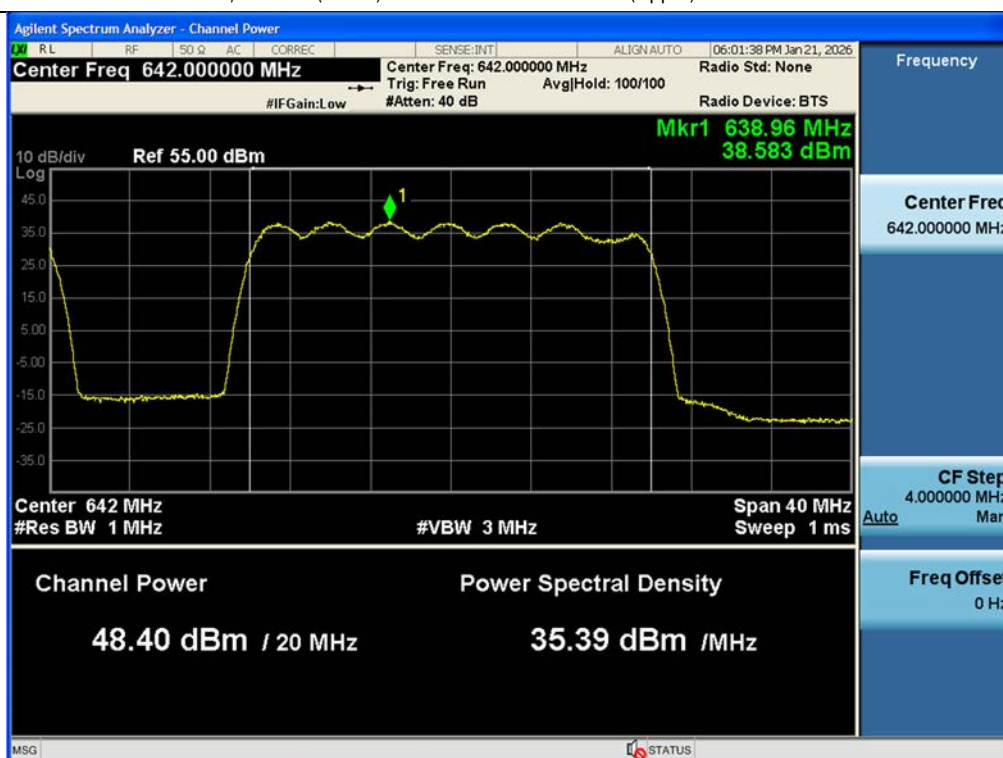
Antenna 2 / (4 Port) B71 LTE 5 MHz 1 Carrier + n71 5G NR 20 MHz 1 Carrier [2 Carrier] / 16QAM / High / Non-Contiguous



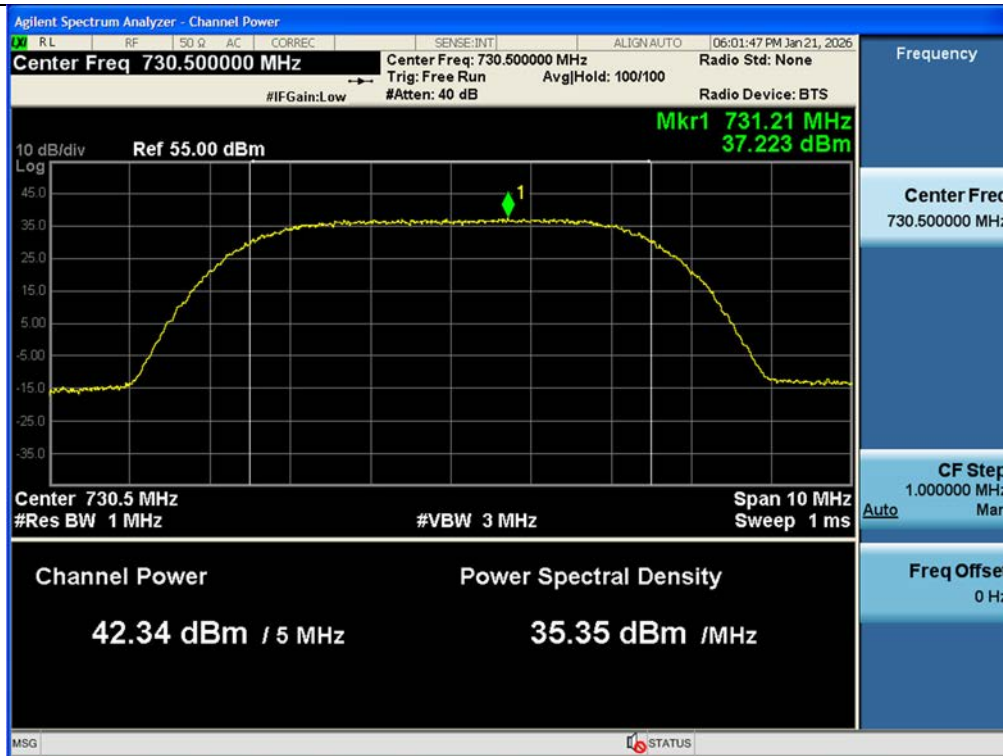
Antenna 3 / (4 Port) B71 LTE (Lower) 5 MHz 1 Carrier + n71 5G NR (Upper) 20 MHz 1 Carrier + B85 LTE (Lower) 5 MHz 1 Carrier [3 Carrier] / 16QAM / Low / Inter-band
/ B71 LTE (Lower) 5 MHz 1 Carrier + n71 5G NR (Upper) 20 MHz 1 Carrier



Antenna 3 / (4 Port) B71 LTE (Lower) 5 MHz 1 Carrier + n71 5G NR (Upper) 20 MHz 1 Carrier + B85 LTE (Lower) 5 MHz 1 Carrier [3 Carrier] / 16QAM / High / Inter-band / B71 LTE (Lower) 5 MHz 1 Carrier + n71 5G NR (Upper) 20 MHz 1 Carrier



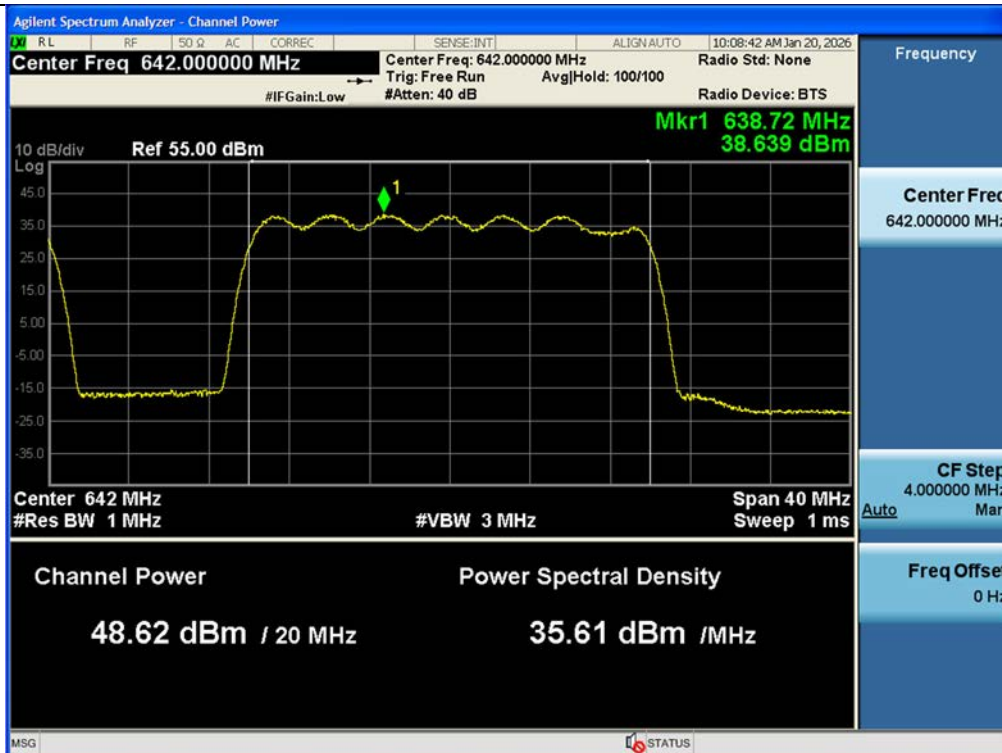
Antenna 3 / (4 Port) B71 LTE (Lower) 5 MHz 1 Carrier + n71 5G NR (Upper) 20 MHz 1 Carrier + B85 LTE (Lower) 5 MHz 1 Carrier [3 Carrier] / 16QAM / Low / Inter-band
/ B85 LTE (Lower) 5 MHz 1 Carrier



Antenna 2 / (4 Port) B71 LTE (Lower) 5 MHz 1 Carrier + n71 5G NR (Upper) 20 MHz 1 Carrier + B85 LTE (Upper) 5 MHz 1 Carrier [3 Carrier] / 16QAM / Low / Inter-band
/ B71 LTE (Lower) 5 MHz 1 Carrier + n71 5G NR (Upper) 20 MHz 1 Carrier



Antenna 2 / (4 Port) B71 LTE (Lower) 5 MHz 1 Carrier + n71 5G NR (Upper) 20 MHz 1 Carrier + B85 LTE (Upper) 5 MHz 1 Carrier [3 Carrier] / 16QAM / High / Inter-band / B71 LTE (Lower) 5 MHz 1 Carrier + n71 5G NR (Upper) 20 MHz 1 Carrier



Antenna 2 / (4 Port) B71 LTE (Lower) 5 MHz 1 Carrier + n71 5G NR (Upper) 20 MHz 1 Carrier + B85 LTE (Upper) 5 MHz 1 Carrier [3 Carrier] / 16QAM / High / Inter-band / B85 LTE (Upper) 5 MHz 1 Carrier



5.2. 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:

- (c) 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).
- (d) 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 $\geq 3 \times \text{RBW}$.
- (e) 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.
- (f) Set the detection mode to peak, and the trace mode to max-hold.
- (g) 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.
- (h) 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) n71 5G NR 5 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	619.50	4.4698
		Middle	634.50	4.4746
		High	649.50	4.4768
	16QAM	Low	619.50	4.4847
		Middle	634.50	4.4889
		High	649.50	4.4928
	64QAM	Low	619.50	4.4877
		Middle	634.50	4.4685
		High	649.50	4.4503
	256QAM	Low	619.50	4.4724
		Middle	634.50	4.5034
		High	649.50	4.4805
1	QPSK	Low	619.50	4.4826
		Middle	634.50	4.4790
		High	649.50	4.4782
	16QAM	Low	619.50	4.4890
		Middle	634.50	4.4910
		High	649.50	4.5040
	64QAM	Low	619.50	4.4772
		Middle	634.50	4.4803
		High	649.50	4.4687
	256QAM	Low	619.50	4.4676
		Middle	634.50	4.4772
		High	649.50	4.4746
2	QPSK	Low	619.50	4.4931
		Middle	634.50	4.4733
		High	649.50	4.4784
	16QAM	Low	619.50	4.4995
		Middle	634.50	4.4977
		High	649.50	4.4885
	64QAM	Low	619.50	4.4728
		Middle	634.50	4.4899
		High	649.50	4.4631
	256QAM	Low	619.50	4.4780
		Middle	634.50	4.4952
		High	649.50	4.4896
3	QPSK	Low	619.50	4.4714
		Middle	634.50	4.4694
		High	649.50	4.4788
	16QAM	Low	619.50	4.4984
		Middle	634.50	4.4897
		High	649.50	4.4892
	64QAM	Low	619.50	4.4666
		Middle	634.50	4.4674
		High	649.50	4.4745
	256QAM	Low	619.50	4.4724
		Middle	634.50	4.4775
		High	649.50	4.4759

(4 Port) n71 5G NR 10 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	622.00	9.2932
		Middle	634.50	9.3156
		High	647.00	9.3294
	16QAM	Low	622.00	9.2502
		Middle	634.50	9.2677
		High	647.00	9.2385
	64QAM	Low	622.00	9.3093
		Middle	634.50	9.3176
		High	647.00	9.3178
	256QAM	Low	622.00	9.3080
		Middle	634.50	9.3143
		High	647.00	9.3227
1	QPSK	Low	622.00	9.3088
		Middle	634.50	9.3048
		High	647.00	9.3086
	16QAM	Low	622.00	9.2615
		Middle	634.50	9.2499
		High	647.00	9.2304
	64QAM	Low	622.00	9.3293
		Middle	634.50	9.3212
		High	647.00	9.2893
	256QAM	Low	622.00	9.3121
		Middle	634.50	9.3044
		High	647.00	9.3168
2	QPSK	Low	622.00	9.3068
		Middle	634.50	9.3072
		High	647.00	9.3274
	16QAM	Low	622.00	9.2480
		Middle	634.50	9.2578
		High	647.00	9.2511
	64QAM	Low	622.00	9.2958
		Middle	634.50	9.3051
		High	647.00	9.3154
	256QAM	Low	622.00	9.3317
		Middle	634.50	9.3265
		High	647.00	9.3161
3	QPSK	Low	622.00	9.2968
		Middle	634.50	9.2918
		High	647.00	9.3183
	16QAM	Low	622.00	9.2769
		Middle	634.50	9.2725
		High	647.00	9.2581
	64QAM	Low	622.00	9.3215
		Middle	634.50	9.3145
		High	647.00	9.3414
	256QAM	Low	622.00	9.3100
		Middle	634.50	9.2876
		High	647.00	9.3114

(4 Port) n71 5G NR 15 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	624.50	14.172
		Middle	634.50	14.154
		High	644.50	14.124
	16QAM	Low	624.50	14.191
		Middle	634.50	14.175
		High	644.50	14.253
	64QAM	Low	624.50	14.140
		Middle	634.50	14.159
		High	644.50	14.130
	256QAM	Low	624.50	14.145
		Middle	634.50	14.156
		High	644.50	14.116
1	QPSK	Low	624.50	14.148
		Middle	634.50	14.139
		High	644.50	14.131
	16QAM	Low	624.50	14.170
		Middle	634.50	14.173
		High	644.50	14.175
	64QAM	Low	624.50	14.131
		Middle	634.50	14.132
		High	644.50	14.147
	256QAM	Low	624.50	14.129
		Middle	634.50	14.148
		High	644.50	14.117
2	QPSK	Low	624.50	14.142
		Middle	634.50	14.135
		High	644.50	14.141
	16QAM	Low	624.50	14.196
		Middle	634.50	14.214
		High	644.50	14.198
	64QAM	Low	624.50	14.139
		Middle	634.50	14.145
		High	644.50	14.166
	256QAM	Low	624.50	14.139
		Middle	634.50	14.148
		High	644.50	14.163
3	QPSK	Low	624.50	14.123
		Middle	634.50	14.128
		High	644.50	14.129
	16QAM	Low	624.50	14.166
		Middle	634.50	14.153
		High	644.50	14.161
	64QAM	Low	624.50	14.140
		Middle	634.50	14.141
		High	644.50	14.123
	256QAM	Low	624.50	14.114
		Middle	634.50	14.157
		High	644.50	14.126

(4 Port) n71 5G NR 20 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	627.00	18.982
		Middle	634.50	18.979
		High	642.00	18.946
	16QAM	Low	627.00	19.030
		Middle	634.50	19.046
		High	642.00	19.024
	64QAM	Low	627.00	19.014
		Middle	634.50	18.994
		High	642.00	18.948
	256QAM	Low	627.00	18.960
		Middle	634.50	18.956
		High	642.00	18.949
1	QPSK	Low	627.00	18.944
		Middle	634.50	18.927
		High	642.00	18.977
	16QAM	Low	627.00	19.005
		Middle	634.50	19.008
		High	642.00	19.030
	64QAM	Low	627.00	19.010
		Middle	634.50	18.982
		High	642.00	19.000
	256QAM	Low	627.00	18.936
		Middle	634.50	18.940
		High	642.00	18.922
2	QPSK	Low	627.00	18.949
		Middle	634.50	18.949
		High	642.00	18.932
	16QAM	Low	627.00	19.047
		Middle	634.50	19.035
		High	642.00	19.028
	64QAM	Low	627.00	19.023
		Middle	634.50	18.943
		High	642.00	19.000
	256QAM	Low	627.00	18.937
		Middle	634.50	18.956
		High	642.00	19.022
3	QPSK	Low	627.00	18.914
		Middle	634.50	18.953
		High	642.00	18.920
	16QAM	Low	627.00	19.000
		Middle	634.50	19.013
		High	642.00	19.027
	64QAM	Low	627.00	19.007
		Middle	634.50	18.951
		High	642.00	18.934
	256QAM	Low	627.00	18.969
		Middle	634.50	19.016
		High	642.00	18.982

(4 Port) n71 5G NR 25 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	629.50	23.773
		Middle	634.50	23.814
		High	639.50	23.783
	16QAM	Low	629.50	23.928
		Middle	634.50	23.935
		High	639.50	23.878
	64QAM	Low	629.50	23.786
		Middle	634.50	23.747
		High	639.50	23.848
	256QAM	Low	629.50	23.748
		Middle	634.50	23.824
		High	639.50	23.758
1	QPSK	Low	629.50	23.780
		Middle	634.50	23.811
		High	639.50	23.804
	16QAM	Low	629.50	23.902
		Middle	634.50	23.871
		High	639.50	23.823
	64QAM	Low	629.50	23.818
		Middle	634.50	23.743
		High	639.50	23.844
	256QAM	Low	629.50	23.744
		Middle	634.50	23.818
		High	639.50	23.807
2	QPSK	Low	629.50	23.771
		Middle	634.50	23.782
		High	639.50	23.768
	16QAM	Low	629.50	23.912
		Middle	634.50	23.837
		High	639.50	23.859
	64QAM	Low	629.50	23.847
		Middle	634.50	23.798
		High	639.50	23.813
	256QAM	Low	629.50	23.809
		Middle	634.50	23.807
		High	639.50	23.796
3	QPSK	Low	629.50	23.786
		Middle	634.50	23.833
		High	639.50	23.784
	16QAM	Low	629.50	23.834
		Middle	634.50	23.877
		High	639.50	23.825
	64QAM	Low	629.50	23.782
		Middle	634.50	23.831
		High	639.50	23.808
	256QAM	Low	629.50	23.828
		Middle	634.50	23.770
		High	639.50	23.796

(4 Port) B85 LTE 5 MHz 1 Carrier

Antenna	Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	730.50	4.4973
		Middle	737.00	4.4965
		High	743.50	4.4738
	16QAM	Low	730.50	4.4793
		Middle	737.00	4.4959
		High	743.50	4.4746
	64QAM	Low	730.50	4.4870
		Middle	737.00	4.4865
		High	743.50	4.4935
	256QAM	Low	730.50	4.4736
		Middle	737.00	4.4841
		High	743.50	4.4848
1	QPSK	Low	730.50	4.4854
		Middle	737.00	4.4877
		High	743.50	4.4877
	16QAM	Low	730.50	4.4771
		Middle	737.00	4.4815
		High	743.50	4.4667
	64QAM	Low	730.50	4.4893
		Middle	737.00	4.5005
		High	743.50	4.4790
	256QAM	Low	730.50	4.5000
		Middle	737.00	4.4839
		High	743.50	4.4957
2	QPSK	Low	730.50	4.5009
		Middle	737.00	4.4828
		High	743.50	4.4850
	16QAM	Low	730.50	4.4851
		Middle	737.00	4.4628
		High	743.50	4.4805
	64QAM	Low	730.50	4.4861
		Middle	737.00	4.4823
		High	743.50	4.4920
	256QAM	Low	730.50	4.4886
		Middle	737.00	4.5051
		High	743.50	4.4914
3	QPSK	Low	730.50	4.4869
		Middle	737.00	4.4874
		High	743.50	4.4917
	16QAM	Low	730.50	4.4632
		Middle	737.00	4.4831
		High	743.50	4.4857
	64QAM	Low	730.50	4.4850
		Middle	737.00	4.4859
		High	743.50	4.4929
	256QAM	Low	730.50	4.4906
		Middle	737.00	4.5052
		High	743.50	4.4852

Tabular Data of RF Contiguous Occupied bandwidth

(4 Port) B71 LTE 5 MHz 1 Carrier + n71 5G NR 20 MHz 1 Carrier [2 Carrier]

Antenna	Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	629.50	24.146
		Middle	634.50	24.155
		High	639.50	24.173
	16QAM	Low	629.50	24.246
		Middle	634.50	24.260
		High	639.50	24.192
	64QAM	Low	629.50	24.116
		Middle	634.50	24.148
		High	639.50	24.180
	256QAM	Low	629.50	24.121
		Middle	634.50	24.133
		High	639.50	24.178
1	QPSK	Low	629.50	24.110
		Middle	634.50	24.129
		High	639.50	24.075
	16QAM	Low	629.50	24.210
		Middle	634.50	24.293
		High	639.50	24.256
	64QAM	Low	629.50	24.176
		Middle	634.50	24.133
		High	639.50	24.122
	256QAM	Low	629.50	24.167
		Middle	634.50	24.123
		High	639.50	24.092
2	QPSK	Low	629.50	24.143
		Middle	634.50	24.170
		High	639.50	24.128
	16QAM	Low	629.50	24.258
		Middle	634.50	24.221
		High	639.50	24.208
	64QAM	Low	629.50	24.147
		Middle	634.50	24.121
		High	639.50	24.121
	256QAM	Low	629.50	24.138
		Middle	634.50	24.172
		High	639.50	24.147
3	QPSK	Low	629.50	24.156
		Middle	634.50	24.151
		High	639.50	24.104
	16QAM	Low	629.50	24.206
		Middle	634.50	24.274
		High	639.50	24.289
	64QAM	Low	629.50	24.120
		Middle	634.50	24.146
		High	639.50	24.124
	256QAM	Low	629.50	24.151
		Middle	634.50	24.198
		High	639.50	24.124

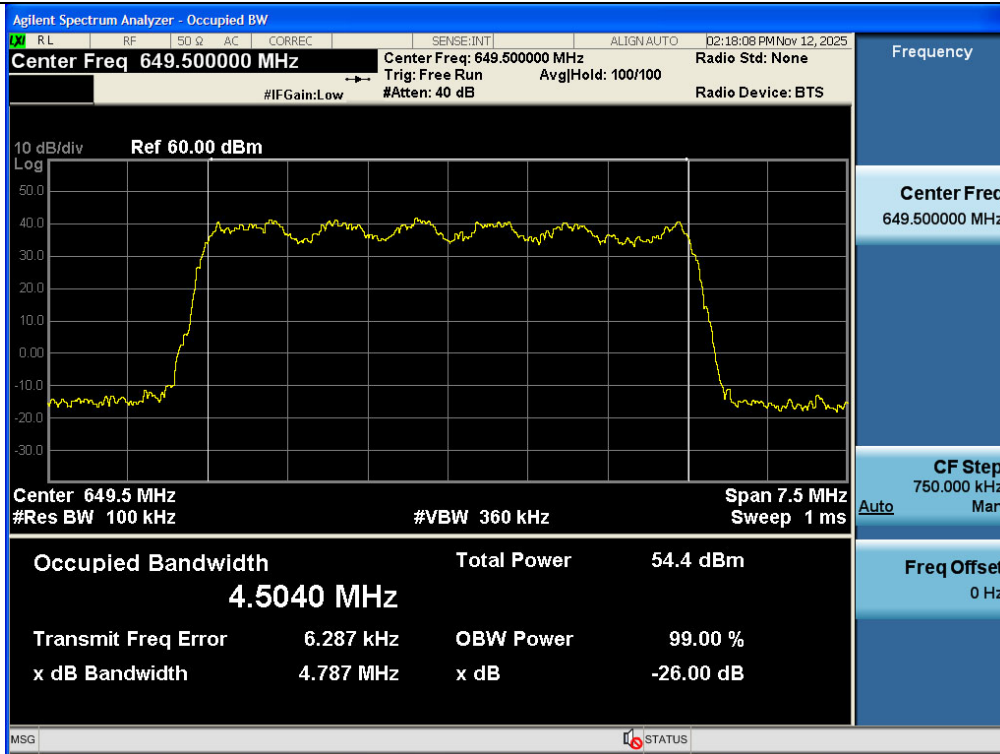
Tabular Data of RF Non-Contiguous Occupied bandwidth

(4 Port) B71 LTE 5 MHz 1 Carrier + n71 5G NR 20 MHz 1 Carrier [2 Carrier]

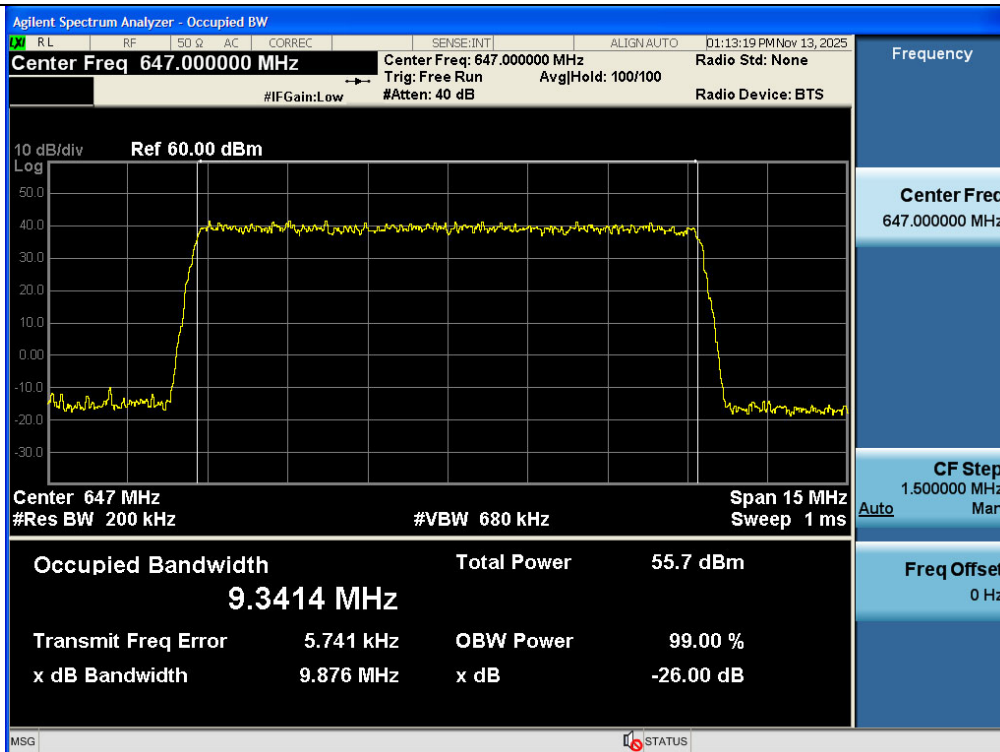
Ant.	Mod.	B71 LTE 5 MHz 1 Carrier		n71 5G NR 20 MHz 1 Carrier		Total OBW (MHz)
		Frequency (MHz)	Occupied Bandwidth (MHz)	Frequency (MHz)	Occupied Bandwidth (MHz)	
0	QPSK	619.50	4.4970	642.00	18.953	23.450
	16QAM	619.50	4.4824	642.00	19.018	23.501
	64QAM	619.50	4.4759	642.00	18.959	23.435
	256QAM	619.50	4.4799	642.00	18.937	23.417
1	QPSK	619.50	4.4854	642.00	18.951	23.437
	16QAM	619.50	4.4867	642.00	18.985	23.471
	64QAM	619.50	4.4799	642.00	18.982	23.462
	256QAM	619.50	4.4840	642.00	18.935	23.419
2	QPSK	619.50	4.4905	642.00	18.983	23.473
	16QAM	619.50	4.4681	642.00	19.001	23.469
	64QAM	619.50	4.4931	642.00	18.985	23.478
	256QAM	619.50	4.5036	642.00	18.942	23.445
3	QPSK	619.50	4.4867	642.00	18.940	23.426
	16QAM	619.50	4.4651	642.00	19.042	23.507
	64QAM	619.50	4.4911	642.00	18.946	23.438
	256QAM	619.50	4.4778	642.00	18.979	23.456

Plot Data of RF Occupied bandwidth

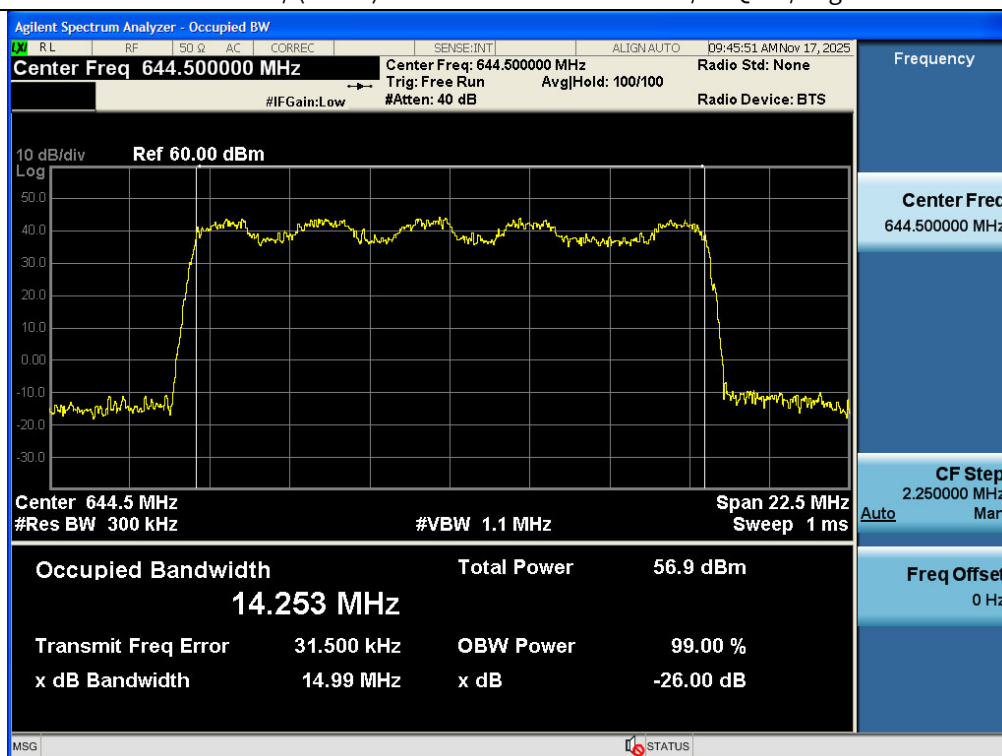
Antenna 1 / (4 Port) n71 5G NR 5 MHz 1 Carrier / 16QAM / High



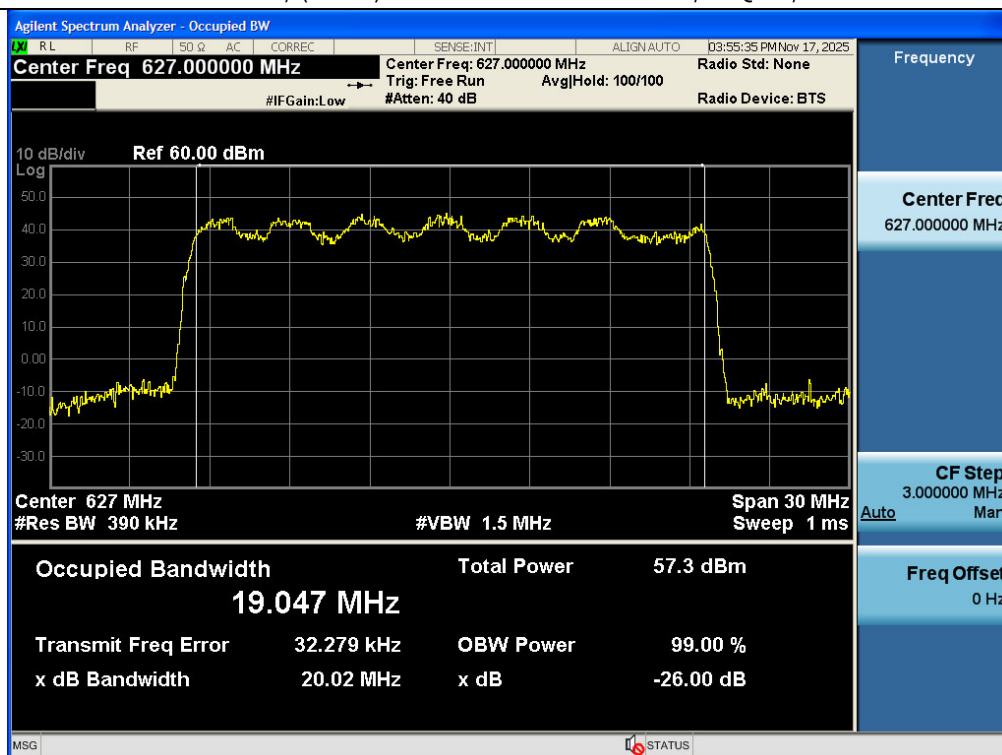
Antenna 3 / (4 Port) n71 5G NR 10 MHz 1 Carrier / 64QAM / High



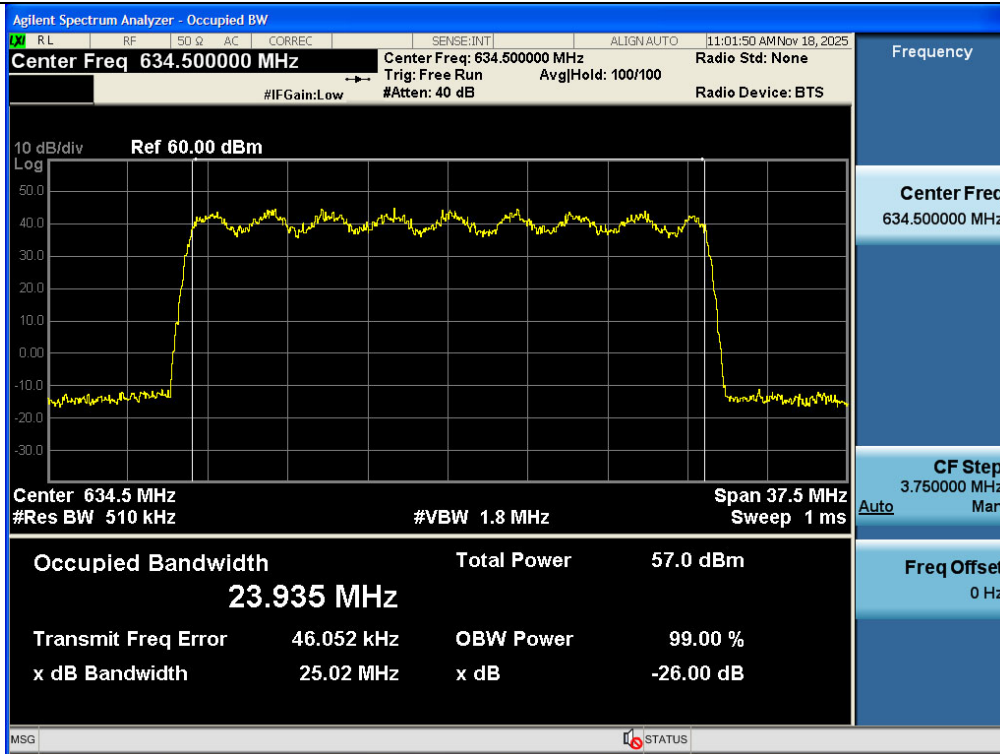
Antenna 0 / (4 Port) n71 5G NR 15 MHz 1 Carrier / 16QAM / High



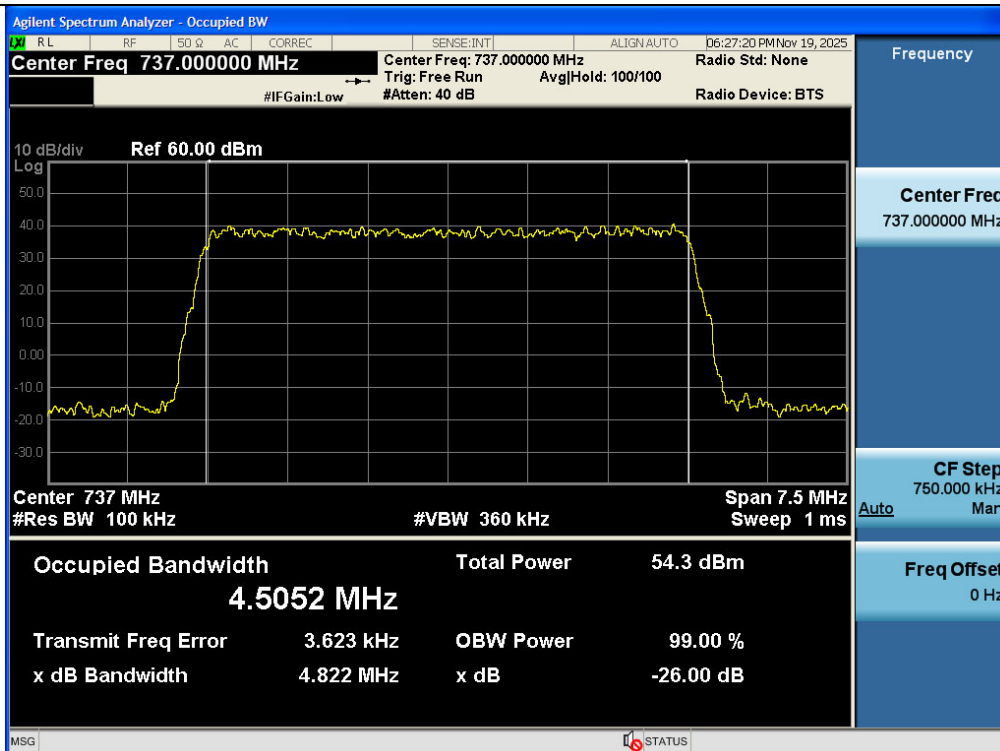
Antenna 2 / (4 Port) n71 5G NR 20 MHz 1 Carrier / 16QAM / Low



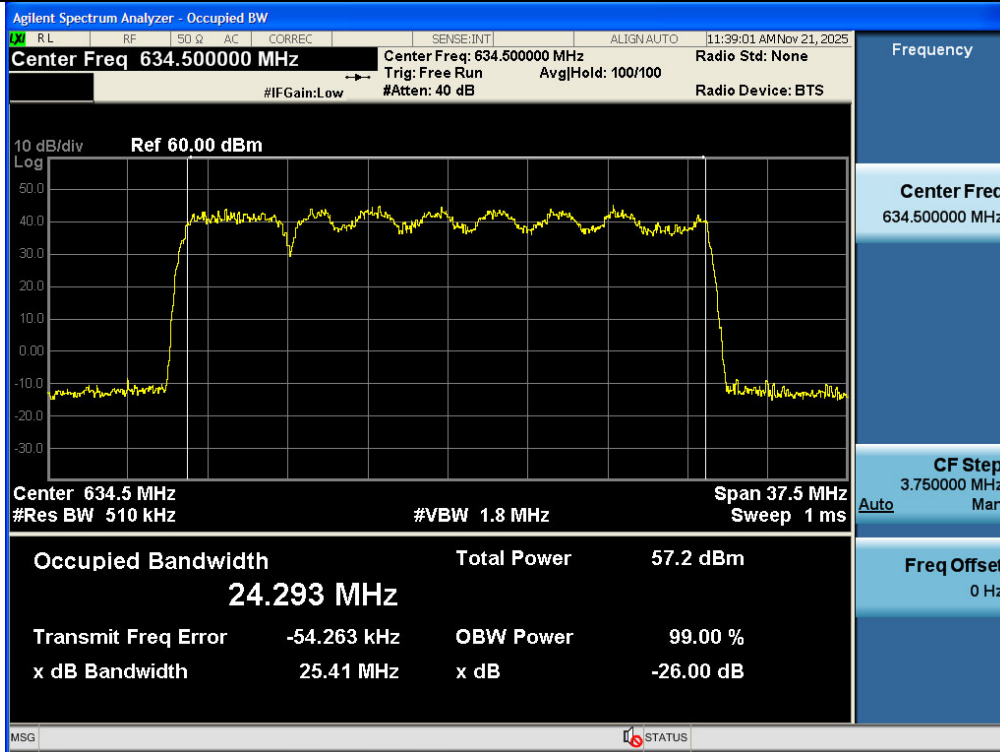
Antenna 0 / (4 Port) n71 5G NR 25 MHz 1 Carrier / 16QAM / Middle



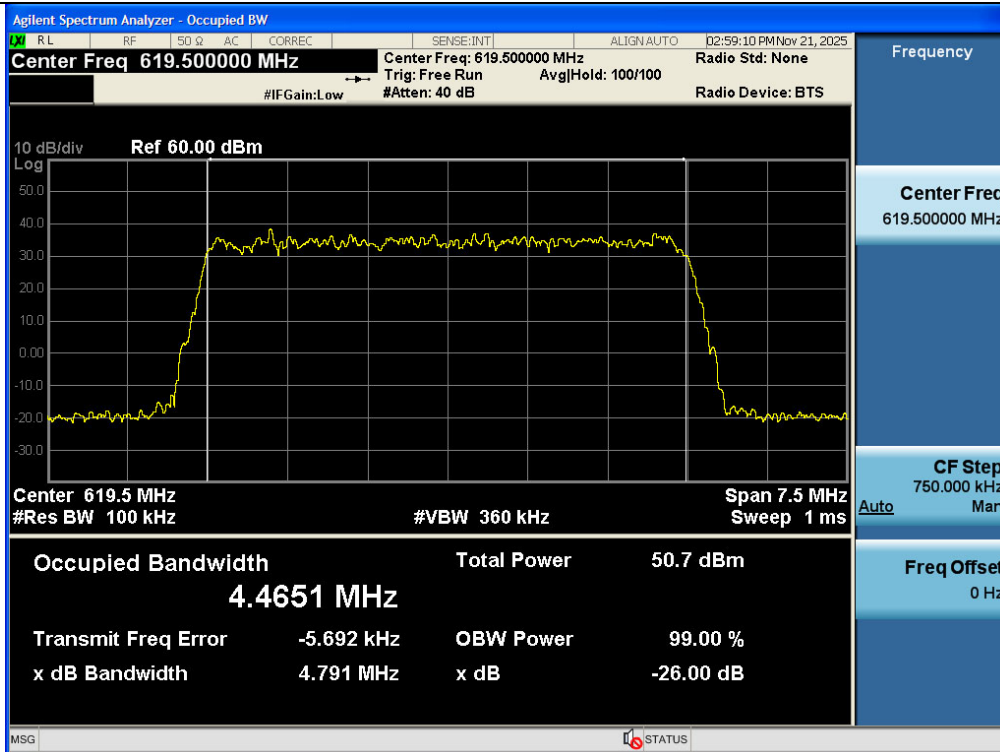
Antenna 3 / (4 Port) B85 LTE 5 MHz 1 Carrier / 256QAM / Middle



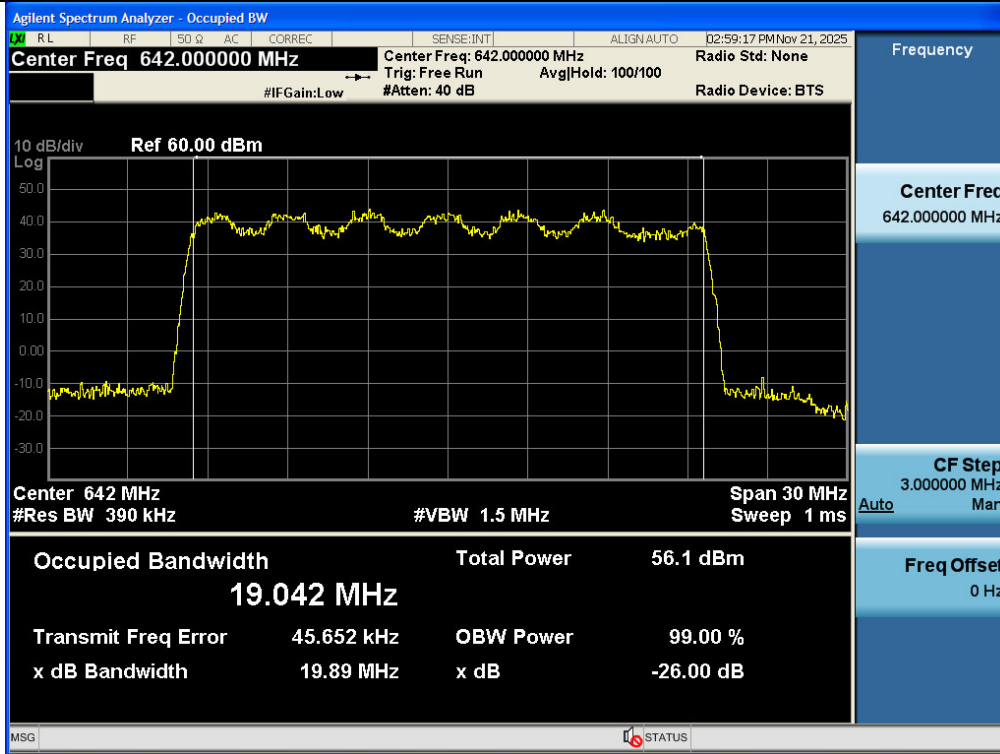
Antenna 1 / (4 Port) B71 LTE 5 MHz 1 Carrier + n71 5G NR 20 MHz 1 Carrier [2 Carrier] / 16QAM / Middle / Contiguous



Antenna 3 / (4 Port) B71 LTE 5 MHz 1 Carrier + n71 5G NR 20 MHz 1 Carrier [2 Carrier] / 16QAM / Low / Non-Contiguous



Antenna 3 / (4 Port) B71 LTE 5 MHz 1 Carrier + n71 5G NR 20 MHz 1 Carrier [2 Carrier] / 16QAM / High / Non-Contiguous



5.3. 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.

§ 27.53 Emission limits.

- (g) For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

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) n71 5G NR 5 MHz 1 Carrier

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
0	QPSK	Low	Left	616.99	-28.61	-22.59	-13
			Right	622.02	-28.96	-22.94	
		High	Left	646.99	-27.91	-21.89	
			Right	652.02	-28.85	-22.83	
	16QAM	Low	Left	616.99	-28.38	-22.36	
			Right	622.02	-29.00	-22.98	
		High	Left	646.99	-28.19	-22.17	
			Right	652.02	-28.34	-22.32	
	64QAM	Low	Left	616.99	-28.56	-22.54	
			Right	622.02	-29.16	-23.14	
		High	Left	646.99	-27.77	-21.75	
			Right	652.02	-28.69	-22.67	
	256QAM	Low	Left	616.99	-28.21	-22.19	
			Right	622.02	-29.03	-23.01	
		High	Left	646.99	-28.06	-22.04	
			Right	652.02	-29.81	-23.79	
1	QPSK	Low	Left	616.99	-29.27	-23.25	
			Right	622.02	-29.14	-23.12	
		High	Left	646.99	-26.28	-20.26	
			Right	652.02	-27.42	-21.4	
	16QAM	Low	Left	616.99	-27.99	-21.97	
			Right	622.02	-29.25	-23.23	
		High	Left	646.99	-25.39	-19.37	
			Right	652.02	-27.06	-21.04	
	64QAM	Low	Left	616.99	-29.58	-23.56	
			Right	622.02	-29.17	-23.15	
		High	Left	646.99	-27.19	-21.17	
			Right	652.02	-28.05	-22.03	
	256QAM	Low	Left	616.99	-29.42	-23.4	
			Right	622.02	-28.11	-22.09	
		High	Left	646.99	-27.19	-21.17	
			Right	652.02	-27.84	-21.82	

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
2	QPSK	Low	Left	616.99	-28.65	-22.63	-13
			Right	622.02	-29.02	-23.00	
		High	Left	646.99	-27.83	-21.81	
			Right	652.02	-28.46	-22.44	
	16QAM	Low	Left	616.99	-28.46	-22.44	
			Right	622.02	-28.44	-22.42	
		High	Left	646.99	-27.36	-21.34	
			Right	652.02	-28.15	-22.13	
	64QAM	Low	Left	616.99	-28.47	-22.45	
			Right	622.02	-28.80	-22.78	
		High	Left	646.99	-27.94	-21.92	
			Right	652.02	-27.98	-21.96	
	256QAM	Low	Left	616.99	-27.72	-21.70	
			Right	622.02	-28.73	-22.71	
		High	Left	646.99	-27.44	-21.42	
			Right	652.02	-28.96	-22.94	
3	QPSK	Low	Left	616.99	-29.00	-22.98	
			Right	622.02	-28.62	-22.6	
		High	Left	646.99	-28.30	-22.28	
			Right	652.02	-28.82	-22.80	
	16QAM	Low	Left	616.99	-27.95	-21.93	
			Right	622.02	-28.79	-22.77	
		High	Left	646.99	-27.51	-21.49	
			Right	652.02	-28.45	-22.43	
	64QAM	Low	Left	616.99	-28.81	-22.79	
			Right	622.02	-28.42	-22.4	
		High	Left	646.99	-28.24	-22.22	
			Right	652.02	-28.78	-22.76	
	256QAM	Low	Left	616.99	-28.52	-22.50	
			Right	622.02	-27.58	-21.56	
		High	Left	646.99	-28.16	-22.14	
			Right	652.02	-28.77	-22.75	

(4 Port) n71 5G NR 10 MHz 1 Carrier

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
0	QPSK	Low	Left	616.99	-30.14	-24.12	-13
			Right	627.02	-30.87	-24.85	
		High	Left	641.99	-29.66	-23.64	
			Right	652.02	-31.70	-25.68	
	16QAM	Low	Left	616.99	-31.81	-25.79	
			Right	627.02	-32.65	-26.63	
		High	Left	641.99	-29.58	-23.56	
			Right	652.02	-31.91	-25.89	
	64QAM	Low	Left	616.99	-32.13	-26.11	
			Right	627.02	-31.91	-25.89	
		High	Left	641.99	-30.74	-24.72	
			Right	652.02	-32.55	-26.53	
	256QAM	Low	Left	616.99	-33.08	-27.06	
			Right	627.02	-32.77	-26.75	
		High	Left	641.99	-30.29	-24.27	
			Right	652.02	-33.20	-27.18	
1	QPSK	Low	Left	616.99	-31.98	-25.96	-13
			Right	627.02	-32.97	-26.95	
		High	Left	641.99	-26.81	-20.79	
			Right	652.02	-30.15	-24.13	
	16QAM	Low	Left	616.99	-31.81	-25.79	
			Right	627.02	-32.14	-26.12	
		High	Left	641.99	-28.11	-22.09	
			Right	652.02	-29.69	-23.67	
	64QAM	Low	Left	616.99	-32.23	-26.21	
			Right	627.02	-33.26	-27.24	
		High	Left	641.99	-27.95	-21.93	
			Right	652.02	-29.69	-23.67	
	256QAM	Low	Left	616.99	-32.59	-26.57	
			Right	627.02	-32.32	-26.30	
		High	Left	641.99	-28.03	-22.01	
			Right	652.02	-30.03	-24.01	

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
2	QPSK	Low	Left	616.99	-31.00	-24.98	-13
			Right	627.02	-31.82	-25.80	
		High	Left	641.99	-28.02	-22.00	
			Right	652.02	-30.44	-24.42	
	16QAM	Low	Left	616.99	-32.05	-26.03	
			Right	627.02	-32.61	-26.59	
		High	Left	641.99	-28.70	-22.68	
			Right	652.02	-31.19	-25.17	
	64QAM	Low	Left	616.99	-31.92	-25.90	
			Right	627.02	-31.74	-25.72	
		High	Left	641.99	-30.23	-24.21	
			Right	652.02	-31.32	-25.30	
	256QAM	Low	Left	616.99	-32.71	-26.69	
			Right	627.02	-32.59	-26.57	
		High	Left	641.99	-29.33	-23.31	
			Right	652.02	-31.58	-25.56	
3	QPSK	Low	Left	616.99	-31.89	-25.87	
			Right	627.02	-32.76	-26.74	
		High	Left	641.99	-28.62	-22.6	
			Right	652.02	-32.48	-26.46	
	16QAM	Low	Left	616.99	-31.53	-25.51	
			Right	627.02	-32.48	-26.46	
		High	Left	641.99	-29.26	-23.24	
			Right	652.02	-30.82	-24.80	
	64QAM	Low	Left	616.99	-32.36	-26.34	
			Right	627.02	-32.81	-26.79	
		High	Left	641.99	-29.54	-23.52	
			Right	652.02	-32.31	-26.29	
	256QAM	Low	Left	616.99	-32.18	-26.16	
			Right	627.02	-31.73	-25.71	
		High	Left	641.99	-30.25	-24.23	
			Right	652.02	-31.91	-25.89	

(4 Port) n71 5G NR 15 MHz 1 Carrier

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
0	QPSK	Low	Left	616.99	-34.49	-28.47	-13
			Right	632.02	-33.76	-27.74	
		High	Left	636.99	-30.87	-24.85	
			Right	652.02	-33.68	-27.66	
	16QAM	Low	Left	616.99	-34.81	-28.79	
			Right	632.02	-32.85	-26.83	
		High	Left	636.99	-32.53	-26.51	
			Right	652.02	-32.05	-26.03	
	64QAM	Low	Left	616.99	-32.05	-26.03	
			Right	632.02	-31.55	-25.53	
		High	Left	636.99	-30.67	-24.65	
			Right	652.02	-32.73	-26.71	
	256QAM	Low	Left	616.99	-33.41	-27.39	
			Right	632.02	-33.09	-27.07	
		High	Left	636.99	-32.36	-26.34	
			Right	652.02	-32.89	-26.87	
1	QPSK	Low	Left	616.99	-29.89	-23.87	-13
			Right	632.02	-30.46	-24.44	
		High	Left	636.99	-25.77	-19.75	
			Right	652.02	-27.31	-21.29	
	16QAM	Low	Left	616.99	-32.34	-26.32	
			Right	632.02	-32.61	-26.59	
		High	Left	636.99	-27.68	-21.66	
			Right	652.02	-29.91	-23.89	
	64QAM	Low	Left	616.99	-31.50	-25.48	
			Right	632.02	-32.04	-26.02	
		High	Left	636.99	-27.75	-21.73	
			Right	652.02	-29.22	-23.20	
	256QAM	Low	Left	616.99	-31.66	-25.64	
			Right	632.02	-32.36	-26.34	
		High	Left	636.99	-26.55	-20.53	
			Right	652.02	-28.60	-22.58	

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
2	QPSK	Low	Left	616.99	-32.97	-26.95	-13
			Right	632.02	-32.38	-26.36	
		High	Left	636.99	-28.98	-22.96	
			Right	652.02	-31.39	-25.37	
	16QAM	Low	Left	616.99	-33.20	-27.18	
			Right	632.02	-31.05	-25.03	
		High	Left	636.99	-30.22	-24.20	
			Right	652.02	-30.92	-24.90	
	64QAM	Low	Left	616.99	-31.24	-25.22	
			Right	632.02	-31.44	-25.42	
		High	Left	636.99	-28.66	-22.64	
			Right	652.02	-30.87	-24.85	
	256QAM	Low	Left	616.99	-32.71	-26.69	
			Right	632.02	-31.95	-25.93	
		High	Left	636.99	-30.11	-24.09	
			Right	652.02	-31.29	-25.27	
3	QPSK	Low	Left	616.99	-31.18	-25.16	-13
			Right	632.02	-32.23	-26.21	
		High	Left	636.99	-27.22	-21.20	
			Right	652.02	-29.55	-23.53	
	16QAM	Low	Left	616.99	-32.89	-26.87	
			Right	632.02	-32.50	-26.48	
		High	Left	636.99	-29.22	-23.20	
			Right	652.02	-31.61	-25.59	
	64QAM	Low	Left	616.99	-32.19	-26.17	
			Right	632.02	-32.73	-26.71	
		High	Left	636.99	-28.65	-22.63	
			Right	652.02	-31.28	-25.26	
	256QAM	Low	Left	616.99	-32.96	-26.94	
			Right	632.02	-32.72	-26.70	
		High	Left	636.99	-28.57	-22.55	
			Right	652.02	-31.97	-25.95	

(4 Port) n71 5G NR 20 MHz 1 Carrier

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
0	QPSK	Low	Left	616.99	-34.99	-28.97	-13
			Right	637.02	-34.74	-28.72	
		High	Left	631.99	-33.36	-27.34	
			Right	652.02	-34.72	-28.70	
	16QAM	Low	Left	616.99	-32.86	-26.84	
			Right	637.02	-30.88	-24.86	
		High	Left	631.99	-28.70	-22.68	
			Right	652.02	-33.31	-27.29	
	64QAM	Low	Left	616.99	-34.57	-28.55	
			Right	637.02	-32.81	-26.79	
		High	Left	631.99	-33.11	-27.09	
			Right	652.02	-34.63	-28.61	
	256QAM	Low	Left	616.99	-34.32	-28.3	
			Right	637.02	-34.78	-28.76	
		High	Left	631.99	-31.43	-25.41	
			Right	652.02	-33.68	-27.66	
1	QPSK	Low	Left	616.99	-32.96	-26.94	-13
			Right	637.02	-33.05	-27.03	
		High	Left	631.99	-30.13	-24.11	
			Right	652.02	-31.60	-25.58	
	16QAM	Low	Left	616.99	-33.29	-27.27	
			Right	637.02	-34.04	-28.02	
		High	Left	631.99	-28.63	-22.61	
			Right	652.02	-31.93	-25.91	
	64QAM	Low	Left	616.99	-34.50	-28.48	
			Right	637.02	-34.60	-28.58	
		High	Left	631.99	-30.09	-24.07	
			Right	652.02	-31.73	-25.71	
	256QAM	Low	Left	616.99	-32.63	-26.61	
			Right	637.02	-34.06	-28.04	
		High	Left	631.99	-30.34	-24.32	
			Right	652.02	-31.61	-25.59	

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
2	QPSK	Low	Left	616.99	-32.98	-26.96	-13
			Right	637.02	-33.69	-27.67	
		High	Left	631.99	-29.06	-23.04	
			Right	652.02	-32.36	-26.34	
	16QAM	Low	Left	616.99	-31.51	-25.49	
			Right	637.02	-32.97	-26.95	
		High	Left	631.99	-29.82	-23.80	
			Right	652.02	-30.45	-24.43	
	64QAM	Low	Left	616.99	-33.36	-27.34	
			Right	637.02	-33.28	-27.26	
		High	Left	631.99	-30.67	-24.65	
			Right	652.02	-31.73	-25.71	
	256QAM	Low	Left	616.99	-32.40	-26.38	
			Right	637.02	-33.61	-27.59	
		High	Left	631.99	-29.32	-23.30	
			Right	652.02	-31.27	-25.25	
3	QPSK	Low	Left	616.99	-33.68	-27.66	
			Right	637.02	-33.65	-27.63	
		High	Left	631.99	-31.19	-25.17	
			Right	652.02	-33.35	-27.33	
	16QAM	Low	Left	616.99	-34.66	-28.64	
			Right	637.02	-32.36	-26.34	
		High	Left	631.99	-29.74	-23.72	
			Right	652.02	-34.08	-28.06	
	64QAM	Low	Left	616.99	-34.93	-28.91	
			Right	637.02	-35.09	-29.07	
		High	Left	631.99	-31.81	-25.79	
			Right	652.02	-33.81	-27.79	
	256QAM	Low	Left	616.99	-33.93	-27.91	
			Right	637.02	-34.19	-28.17	
		High	Left	631.99	-31.50	-25.48	
			Right	652.02	-33.56	-27.54	

(4 Port) n71 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	616.99	-34.23	-28.21	-13
			Right	642.02	-35.14	-29.12	
		High	Left	626.99	-33.41	-27.39	
			Right	652.02	-35.09	-29.07	
	16QAM	Low	Left	616.99	-33.85	-27.83	
			Right	642.02	-34.68	-28.66	
		High	Left	626.99	-33.29	-27.27	
			Right	652.02	-34.27	-28.25	
	64QAM	Low	Left	616.99	-33.65	-27.63	
			Right	642.02	-35.01	-28.99	
		High	Left	626.99	-32.86	-26.84	
			Right	652.02	-34.81	-28.79	
	256QAM	Low	Left	616.99	-34.88	-28.86	
			Right	642.02	-35.71	-29.69	
		High	Left	626.99	-33.49	-27.47	
			Right	652.02	-35.03	-29.01	
1	QPSK	Low	Left	616.99	-33.39	-27.37	-13
			Right	642.02	-34.52	-28.50	
		High	Left	626.99	-30.89	-24.87	
			Right	652.02	-31.02	-25.00	
	16QAM	Low	Left	616.99	-33.91	-27.89	
			Right	642.02	-33.11	-27.09	
		High	Left	626.99	-33.11	-27.09	
			Right	652.02	-33.40	-27.38	
	64QAM	Low	Left	616.99	-32.96	-26.94	
			Right	642.02	-34.92	-28.90	
		High	Left	626.99	-31.00	-24.98	
			Right	652.02	-33.07	-27.05	
	256QAM	Low	Left	616.99	-32.25	-26.23	
			Right	642.02	-33.39	-27.37	
		High	Left	626.99	-30.02	-24.00	
			Right	652.02	-32.04	-26.02	

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
2	QPSK	Low	Left	616.99	-32.79	-26.77	-13
			Right	642.02	-32.68	-26.66	
		High	Left	626.99	-31.17	-25.15	
			Right	652.02	-33.14	-27.12	
	16QAM	Low	Left	616.99	-33.06	-27.04	
			Right	642.02	-32.89	-26.87	
		High	Left	626.99	-31.14	-25.12	
			Right	652.02	-32.88	-26.86	
	64QAM	Low	Left	616.99	-32.78	-26.76	
			Right	642.02	-33.16	-27.14	
		High	Left	626.99	-31.94	-25.92	
			Right	652.02	-32.98	-26.96	
	256QAM	Low	Left	616.99	-32.93	-26.91	
			Right	642.02	-33.66	-27.64	
		High	Left	626.99	-31.55	-25.53	
			Right	652.02	-32.82	-26.80	
3	QPSK	Low	Left	616.99	-34.53	-28.51	-13
			Right	642.02	-35.43	-29.41	
		High	Left	626.99	-32.32	-26.30	
			Right	652.02	-35.26	-29.24	
	16QAM	Low	Left	616.99	-34.72	-28.70	
			Right	642.02	-34.08	-28.06	
		High	Left	626.99	-33.76	-27.74	
			Right	652.02	-34.40	-28.38	
	64QAM	Low	Left	616.99	-34.83	-28.81	
			Right	642.02	-35.19	-29.17	
		High	Left	626.99	-31.88	-25.86	
			Right	652.02	-34.84	-28.82	
	256QAM	Low	Left	616.99	-33.02	-27.00	
			Right	642.02	-33.62	-27.60	
		High	Left	626.99	-31.77	-25.75	
			Right	652.02	-33.13	-27.11	

(4 Port) B85 LTE 5 MHz 1 Carrier

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
0	QPSK	Low	Left	727.99	-27.93	-21.91	-13
			Right	733.02	-27.47	-21.45	
		High	Left	740.99	-26.48	-20.46	
			Right	746.02	-26.68	-20.66	
	16QAM	Low	Left	727.99	-27.66	-21.64	
			Right	733.02	-26.74	-20.72	
		High	Left	740.99	-26.76	-20.74	
			Right	746.02	-26.27	-20.25	
	64QAM	Low	Left	727.99	-25.77	-19.75	
			Right	733.02	-23.66	-17.64	
		High	Left	740.99	-26.94	-20.92	
			Right	746.02	-26.95	-20.93	
	256QAM	Low	Left	727.99	-26.93	-20.91	
			Right	733.02	-27.18	-21.16	
		High	Left	740.99	-27.70	-21.68	
			Right	746.02	-27.38	-21.36	
1	QPSK	Low	Left	727.99	-23.39	-17.37	-13
			Right	733.02	-24.52	-18.50	
		High	Left	740.99	-27.00	-20.98	
			Right	746.02	-26.26	-20.24	
	16QAM	Low	Left	727.99	-27.89	-21.87	
			Right	733.02	-26.77	-20.75	
		High	Left	740.99	-26.71	-20.69	
			Right	746.02	-25.89	-19.87	
	64QAM	Low	Left	727.99	-27.63	-21.61	
			Right	733.02	-27.41	-21.39	
		High	Left	740.99	-24.75	-18.73	
			Right	746.02	-25.91	-19.89	
	256QAM	Low	Left	727.99	-28.00	-21.98	
			Right	733.02	-27.34	-21.32	
		High	Left	740.99	-27.17	-21.15	
			Right	746.02	-26.88	-20.86	

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
2	QPSK	Low	Left	727.99	-27.40	-21.38	-13
			Right	733.02	-27.36	-21.34	
		High	Left	740.99	-25.90	-19.88	
			Right	746.02	-26.00	-19.98	
	16QAM	Low	Left	727.99	-27.50	-21.48	
			Right	733.02	-26.56	-20.54	
		High	Left	740.99	-26.19	-20.17	
			Right	746.02	-25.90	-19.88	
	64QAM	Low	Left	727.99	-27.80	-21.78	
			Right	733.02	-27.70	-21.68	
		High	Left	740.99	-26.77	-20.75	
			Right	746.02	-27.04	-21.02	
	256QAM	Low	Left	727.99	-27.57	-21.55	
			Right	733.02	-27.21	-21.19	
		High	Left	740.99	-26.92	-20.90	
			Right	746.02	-26.38	-20.36	
3	QPSK	Low	Left	727.99	-26.91	-20.89	
			Right	733.02	-23.88	-17.86	
		High	Left	740.99	-26.21	-20.19	
			Right	746.02	-25.91	-19.89	
	16QAM	Low	Left	727.99	-27.69	-21.67	
			Right	733.02	-26.88	-20.86	
		High	Left	740.99	-27.29	-21.27	
			Right	746.02	-26.84	-20.82	
	64QAM	Low	Left	727.99	-27.76	-21.74	
			Right	733.02	-27.38	-21.36	
		High	Left	740.99	-27.94	-21.92	
			Right	746.02	-28.27	-22.25	
	256QAM	Low	Left	727.99	-28.72	-22.70	
			Right	733.02	-27.50	-21.48	
		High	Left	740.99	-28.03	-22.01	
			Right	746.02	-27.64	-21.62	

Tabular Data of Contiguous Out-of-band Unwanted Emissions
(4 Port) B71 LTE 5 MHz 1 Carrier + n71 5G NR 20 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	616.99	-33.30	-27.28	-13
			Right	642.02	-34.02	-28.00	
		High	Left	626.99	-32.43	-26.41	
			Right	652.02	-34.98	-28.96	
	16QAM	Low	Left	616.99	-33.20	-27.18	
			Right	642.02	-34.87	-28.85	
		High	Left	626.99	-33.10	-27.08	
			Right	652.02	-35.69	-29.67	
	64QAM	Low	Left	616.99	-34.07	-28.05	
			Right	642.02	-34.31	-28.29	
		High	Left	626.99	-29.67	-23.65	
			Right	652.02	-34.26	-28.24	
	256QAM	Low	Left	616.99	-33.33	-27.31	
			Right	642.02	-35.30	-29.28	
		High	Left	626.99	-32.60	-26.58	
			Right	652.02	-35.31	-29.29	
1	QPSK	Low	Left	616.99	-32.28	-26.26	
			Right	642.02	-34.62	-28.60	
		High	Left	626.99	-30.88	-24.86	
			Right	652.02	-33.00	-26.98	
	16QAM	Low	Left	616.99	-31.57	-25.55	
			Right	642.02	-33.32	-27.30	
		High	Left	626.99	-30.34	-24.32	
			Right	652.02	-32.51	-26.49	
	64QAM	Low	Left	616.99	-31.84	-25.82	
			Right	642.02	-34.46	-28.44	
		High	Left	626.99	-30.06	-24.04	
			Right	652.02	-33.04	-27.02	
	256QAM	Low	Left	616.99	-32.56	-26.54	
			Right	642.02	-34.75	-28.73	
		High	Left	626.99	-30.84	-24.82	
			Right	652.02	-33.23	-27.21	

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
2	QPSK	Low	Left	616.99	-30.20	-24.18	-13
			Right	642.02	-31.47	-25.45	
		High	Left	626.99	-30.67	-24.65	
			Right	652.02	-32.54	-26.52	
	16QAM	Low	Left	616.99	-31.97	-25.95	
			Right	642.02	-33.13	-27.11	
		High	Left	626.99	-30.79	-24.77	
			Right	652.02	-32.92	-26.90	
	64QAM	Low	Left	616.99	-32.18	-26.16	
			Right	642.02	-32.89	-26.87	
		High	Left	626.99	-30.40	-24.38	
			Right	652.02	-28.60	-22.58	
	256QAM	Low	Left	616.99	-31.49	-25.47	
			Right	642.02	-33.35	-27.33	
		High	Left	626.99	-30.84	-24.82	
			Right	652.02	-32.88	-26.86	
3	QPSK	Low	Left	616.99	-32.52	-26.50	-13
			Right	642.02	-33.48	-27.46	
		High	Left	626.99	-31.98	-25.96	
			Right	652.02	-34.42	-28.40	
	16QAM	Low	Left	616.99	-31.84	-25.82	
			Right	642.02	-34.24	-28.22	
		High	Left	626.99	-31.11	-25.09	
			Right	652.02	-34.22	-28.20	
	64QAM	Low	Left	616.99	-33.05	-27.03	
			Right	642.02	-34.91	-28.89	
		High	Left	626.99	-31.87	-25.85	
			Right	652.02	-33.92	-27.90	
	256QAM	Low	Left	616.99	-33.45	-27.43	
			Right	642.02	-35.71	-29.69	
		High	Left	626.99	-31.91	-25.89	
			Right	652.02	-34.86	-28.84	

Tabular Data of Non-Contiguous Out-of-band Unwanted Emissions
(4 Port) B71 LTE 5 MHz 1 Carrier + n71 5G NR 20 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	616.99	-31.89	-25.87	-13
			Right	622.02	-32.65	-26.63	
		High	Left	631.99	-33.39	-27.37	
			Right	652.02	-34.14	-28.12	
	16QAM	Low	Left	616.99	-32.61	-26.59	
			Right	622.02	-33.09	-27.07	
		High	Left	631.99	-33.03	-27.01	
			Right	652.02	-34.90	-28.88	
	64QAM	Low	Left	616.99	-31.84	-25.82	
			Right	622.02	-31.95	-25.93	
		High	Left	631.99	-33.13	-27.11	
			Right	652.02	-34.29	-28.27	
	256QAM	Low	Left	616.99	-32.40	-26.38	
			Right	622.02	-32.40	-26.38	
		High	Left	631.99	-32.61	-26.59	
			Right	652.02	-34.22	-28.20	
1	QPSK	Low	Left	616.99	-31.08	-25.06	
			Right	622.02	-31.45	-25.43	
		High	Left	631.99	-31.67	-25.65	
			Right	652.02	-33.14	-27.12	
	16QAM	Low	Left	616.99	-30.94	-24.92	
			Right	622.02	-31.93	-25.91	
		High	Left	631.99	-30.26	-24.24	
			Right	652.02	-32.47	-26.45	
	64QAM	Low	Left	616.99	-31.18	-25.16	
			Right	622.02	-31.91	-25.89	
		High	Left	631.99	-31.13	-25.11	
			Right	652.02	-31.81	-25.79	
	256QAM	Low	Left	616.99	-31.18	-25.16	
			Right	622.02	-31.40	-25.38	
		High	Left	631.99	-30.21	-24.19	
			Right	652.02	-32.67	-26.65	

ANT	Modulation	Ch.	Edge Position	Frequency (MHz)	Measured Level (dBm)	Corrected Measured Level (dBm)	Limit (dBm)
2	QPSK	Low	Left	616.99	-31.20	-25.18	-13
			Right	622.02	-31.30	-25.28	
		High	Left	631.99	-31.63	-25.61	
			Right	652.02	-32.18	-26.16	
	16QAM	Low	Left	616.99	-30.89	-24.87	
			Right	622.02	-31.38	-25.36	
		High	Left	631.99	-30.30	-24.28	
			Right	652.02	-32.41	-26.39	
	64QAM	Low	Left	616.99	-30.84	-24.82	
			Right	622.02	-31.17	-25.15	
		High	Left	631.99	-31.28	-25.26	
			Right	652.02	-32.08	-26.06	
	256QAM	Low	Left	616.99	-30.81	-24.79	
			Right	622.02	-30.85	-24.83	
		High	Left	631.99	-31.26	-25.24	
			Right	652.02	-31.40	-25.38	
3	QPSK	Low	Left	616.99	-31.90	-25.88	-13
			Right	622.02	-32.13	-26.11	
		High	Left	631.99	-31.96	-25.94	
			Right	652.02	-33.76	-27.74	
	16QAM	Low	Left	616.99	-31.38	-25.36	
			Right	622.02	-31.73	-25.71	
		High	Left	631.99	-30.70	-24.68	
			Right	652.02	-33.68	-27.66	
	64QAM	Low	Left	616.99	-31.96	-25.94	
			Right	622.02	-32.47	-26.45	
		High	Left	631.99	-32.09	-26.07	
			Right	652.02	-33.39	-27.37	
	256QAM	Low	Left	616.99	-32.21	-26.19	
			Right	622.02	-32.51	-26.49	
		High	Left	631.99	-31.89	-25.87	
			Right	652.02	-33.70	-27.68	

Tabular Data of Inter-band Out-of-band Unwanted Emissions

(4 Port) n71 5G NR(Lower) 5 MHz 1 Carrier + B85 LTE(Upper) 5 MHz 1 Carrier [2 Carrier]

ANT	Mod.	n71 5G NR(Lower) 5 MHz 1 Carrier					B85 LTE(Upper) 5 MHz 1 Carrier					Limit (dBm)
		Ch.	Edge Position	Freq. (MHz)	Measured Value (dBm)	Corrected Measured Level (dBm)	Ch.	Edge Position	Freq. (MHz)	Measured Value (dBm)	Corrected Measured Level (dBm)	
0	QPSK	Low	Left	617.00	-24.21	-18.19	High	Left	741.00	-24.52	-18.50	-13
			Right	622.00	-24.54	-18.52		Right	746.00	-24.90	-18.88	
	16QAM		Left	617.00	-23.71	-17.69		Left	741.00	-25.19	-19.17	
			Right	622.00	-24.16	-18.14		Right	746.00	-23.59	-17.57	
	64QAM		Left	617.00	-24.38	-18.36		Left	741.00	-24.69	-18.67	
			Right	622.00	-24.47	-18.45		Right	746.00	-24.85	-18.83	
	256QAM		Left	617.00	-24.74	-18.72		Left	741.00	-24.96	-18.94	
			Right	622.00	-24.84	-18.82		Right	746.00	-24.46	-18.44	
1	QPSK		Left	617.00	-25.55	-19.53		Left	741.00	-24.20	-18.18	
			Right	622.00	-24.79	-18.77		Right	746.00	-23.70	-17.68	
	16QAM		Left	617.00	-24.48	-18.46		Left	741.00	-24.46	-18.44	
			Right	622.00	-24.09	-18.07		Right	746.00	-23.53	-17.51	
	64QAM		Left	617.00	-24.54	-18.52		Left	741.00	-24.00	-17.98	
			Right	622.00	-24.03	-18.01		Right	746.00	-23.90	-17.88	
	256QAM		Left	617.00	-25.42	-19.40		Left	741.00	-24.94	-18.92	
			Right	622.00	-24.25	-18.23		Right	746.00	-24.69	-18.67	
2	QPSK		Left	617.00	-23.74	-17.72		Left	741.00	-24.11	-18.09	
			Right	622.00	-24.31	-18.29		Right	746.00	-24.49	-18.47	
	16QAM		Left	617.00	-23.31	-17.29		Left	741.00	-24.81	-18.79	
			Right	622.00	-23.65	-17.63		Right	746.00	-23.76	-17.74	
	64QAM		Left	617.00	-24.12	-18.10		Left	741.00	-24.47	-18.45	
			Right	622.00	-24.15	-18.13		Right	746.00	-24.61	-18.59	
	256QAM		Left	617.00	-24.50	-18.48		Left	741.00	-25.14	-19.12	
			Right	622.00	-24.23	-18.21		Right	746.00	-24.43	-18.41	
3	QPSK		Left	617.00	-24.59	-18.57		Left	741.00	-24.20	-18.18	
			Right	622.00	-24.14	-18.12		Right	746.00	-23.42	-17.40	
	16QAM		Left	617.00	-24.14	-18.12		Left	741.00	-24.18	-18.16	
			Right	622.00	-23.90	-17.88		Right	746.00	-22.95	-16.93	
	64QAM		Left	617.00	-24.56	-18.54		Left	741.00	-23.78	-17.76	
			Right	622.00	-23.41	-17.39		Right	746.00	-23.57	-17.55	
	256QAM		Left	617.00	-23.99	-17.97		Left	741.00	-24.47	-18.45	
			Right	622.00	-23.99	-17.97		Right	746.00	-23.96	-17.94	

(4 Port) n71 5G NR(Upper) 5 MHz 1 Carrier + B85 LTE(Lower) 5 MHz 1 Carrier [2 Carrier]

ANT	Mod.	n71 5G NR(Upper) 5 MHz 1 Carrier					B85 LTE(Lower) 5 MHz 1 Carrier					Limit (dBm)
		Ch.	Edge Position	Freq. (MHz)	Measured Value (dBm)	Corrected Measured Level (dBm)	Ch.	Edge Position	Freq. (MHz)	Measured Value (dBm)	Corrected Measured Level (dBm)	
0	QPSK	High	Left	647.00	-23.46	-17.44	Low	Left	728.00	-24.51	-18.49	-13
			Right	652.00	-24.92	-18.90		Right	733.00	-24.32	-18.30	
	16QAM		Left	647.00	-21.75	-15.73		Left	728.00	-25.57	-19.55	
			Right	652.00	-24.67	-18.65		Right	733.00	-23.22	-17.20	
	64QAM		Left	647.00	-24.07	-18.05		Left	728.00	-24.51	-18.49	
			Right	652.00	-24.87	-18.85		Right	733.00	-24.62	-18.60	
	256QAM		Left	647.00	-23.51	-17.49		Left	728.00	-25.37	-19.35	
			Right	652.00	-25.65	-19.63		Right	733.00	-23.99	-17.97	
1	QPSK		Left	647.00	-23.80	-17.78		Left	728.00	-23.81	-17.79	
			Right	652.00	-24.85	-18.83		Right	733.00	-23.57	-17.55	
	16QAM		Left	647.00	-22.76	-16.74		Left	728.00	-24.88	-18.86	
			Right	652.00	-24.32	-18.30		Right	733.00	-23.06	-17.04	
	64QAM		Left	647.00	-23.85	-17.83		Left	728.00	-25.10	-19.08	
			Right	652.00	-24.72	-18.70		Right	733.00	-24.36	-18.34	
	256QAM		Left	647.00	-23.96	-17.94		Left	728.00	-25.02	-19.00	
			Right	652.00	-25.09	-19.07		Right	733.00	-23.86	-17.84	
2	QPSK		Left	647.00	-23.56	-17.54		Left	728.00	-24.28	-18.26	
			Right	652.00	-25.11	-19.09		Right	733.00	-24.04	-18.02	
	16QAM		Left	647.00	-23.76	-17.74		Left	728.00	-24.43	-18.41	
			Right	652.00	-24.70	-18.68		Right	733.00	-23.41	-17.39	
	64QAM		Left	647.00	-23.75	-17.73		Left	728.00	-24.26	-18.24	
			Right	652.00	-25.08	-19.06		Right	733.00	-23.95	-17.93	
	256QAM		Left	647.00	-23.89	-17.87		Left	728.00	-22.11	-16.09	
			Right	652.00	-25.15	-19.13		Right	733.00	-21.54	-15.52	
3	QPSK		Left	647.00	-24.73	-18.71		Left	728.00	-24.05	-18.03	
			Right	652.00	-25.02	-19.00		Right	733.00	-22.77	-16.75	
	16QAM		Left	647.00	-23.24	-17.22		Left	728.00	-24.22	-18.20	
			Right	652.00	-24.47	-18.45		Right	733.00	-22.74	-16.72	
	64QAM		Left	647.00	-23.93	-17.91		Left	728.00	-24.32	-18.30	
			Right	652.00	-24.65	-18.63		Right	733.00	-23.83	-17.81	
	256QAM		Left	647.00	-24.30	-18.28		Left	728.00	-24.60	-18.58	
			Right	652.00	-24.59	-18.57		Right	733.00	-23.68	-17.66	

(4 Port) B71 LTE(Lower) 5 MHz 1 Carrier + n71 5G NR(Upper) 20 MHz 1 Carrier + B85 LTE(Upper) 5 MHz
[3 Carrier]

ANT	Mod.	B71 LTE (Lower) 5 MHz 1 Carrier + N71 5G NR (Upper) 5 MHz 1 Carrier					B85 LTE(Upper) 5 MHz 1 Carrier					Limit (dBm)
		Ch.	Edge Position	Freq. (MHz)	Measured Value (dBm)	Corrected Measured Level (dBm)	Ch.	Edge Position	Freq. (MHz)	Measured Value (dBm)	Corrected Measured Level (dBm)	
0	QPSK	Low	Left	617.00	-29.22	-23.20	High	Left	-	-	-	-13
			Right	622.00	-29.23	-23.21		Right	-	-	-	
		High	Left	631.92	-31.37	-25.35		Left	741.00	-25.00	-18.98	
			Right	652.00	-33.39	-27.37		Right	746.00	-24.07	-18.05	
	16QAM	Low	Left	617.00	-29.28	-23.26		Left	-	-	-	
			Right	622.00	-29.08	-23.06		Right	-	-	-	
		High	Left	632.00	-31.69	-25.67		Left	740.94	-25.30	-19.28	
			Right	652.00	-33.08	-27.06		Right	746.00	-24.60	-18.58	
	64QAM	Low	Left	617.00	-29.29	-23.27		Left	-	-	-	
			Right	622.00	-29.34	-23.32		Right	-	-	-	
		High	Left	632.00	-31.28	-25.26		Left	741.00	-24.76	-18.74	
			Right	652.00	-34.07	-28.05		Right	746.00	-24.95	-18.93	
	256QAM	Low	Left	617.00	-29.60	-23.58		Left	-	-	-	
			Right	622.00	-29.46	-23.44		Right	-	-	-	
		High	Left	632.00	-30.92	-24.90		Left	741.00	-25.25	-19.23	
			Right	652.02	-32.34	-26.32		Right	746.00	-25.31	-19.29	
1	QPSK	Low	Left	617.00	-24.64	-18.62		Left	-	-	-	
			Right	622.00	-24.73	-18.71		Right	-	-	-	
		High	Left	631.96	-30.96	-24.94		Left	741.00	-22.79	-16.77	
			Right	652.00	-32.35	-26.33		Right	746.00	-22.80	-16.78	
	16QAM	Low	Left	617.00	-29.03	-23.01		Left	-	-	-	
			Right	622.00	-28.24	-22.22		Right	-	-	-	
		High	Left	632.00	-29.77	-23.75		Left	741.00	-26.28	741.00	
			Right	652.08	-31.10	-25.08		Right	746.00	-25.15	746.00	
	64QAM	Low	Left	617.00	-27.02	-21.00		Left	-	-	-	
			Right	622.00	-28.36	-22.34		Right	-	-	-	
		High	Left	632.00	-29.70	-23.68		Left	741.00	-25.98	741.00	
			Right	652.00	-30.42	-24.40		Right	746.00	-26.52	746.00	
	256QAM	Low	Left	617.00	-29.20	-23.18		Left	-	-	-	
			Right	622.00	-29.04	-23.02		Right	-	-	-	
		High	Left	631.96	-30.12	-24.10		Left	741.00	-25.49	741.00	
			Right	652.00	-32.22	-26.20		Right	746.00	-26.04	746.00	

ANT	Mod.	B71 LTE (Lower) 5 MHz 1 Carrier + N71 5G NR (Upper) 5 MHz 1 Carrier					B85 LTE(Upper) 5 MHz 1 Carrier					Limit (dBm)
		Ch.	Edge Position	Freq. (MHz)	Measured Value (dBm)	Corrected Measured Level (dBm)	Ch.	Edge Position	Freq. (MHz)	Measured Value (dBm)	Corrected Measured Level (dBm)	
2	QPSK	Low	Left	617.00	-28.76	-22.74	High	Left	-	-	-	-13
			Right	622.00	-28.80	-22.78		Right	-	-	-	
		High	Left	631.96	-30.92	-24.90		Left	740.92	-24.99	-18.97	
			Right	652.04	-31.63	-25.61		Right	746.00	-24.45	-18.43	
	16QAM	Low	Left	617.00	-28.50	-22.48		Left	-	-	-	
			Right	622.00	-28.69	-22.67		Right	-	-	-	
		High	Left	631.92	-30.34	-24.32		Left	741.00	-23.01	-16.99	
			Right	652.06	-32.32	-26.30		Right	746.00	-22.38	-16.36	
	64QAM	Low	Left	617.00	-28.36	-22.34		Left	-	-	-	
			Right	622.00	-28.59	-22.57		Right	-	-	-	
		High	Left	632.00	-30.89	-24.87		Left	741.00	-24.75	-18.73	
			Right	652.00	-32.20	-26.18		Right	746.00	-25.13	-19.11	
	256QAM	Low	Left	617.00	-28.20	-22.18		Left	-	-	-	
			Right	622.00	-28.51	-22.49		Right	-	-	-	
		High	Left	632.00	-29.91	-23.89		Left	741.00	-25.13	-19.11	
			Right	652.02	-29.49	-23.47		Right	746.00	-24.94	-18.92	
3	QPSK	Low	Left	617.00	-24.75	-18.73		Left	-	-	-	
			Right	622.00	-24.74	-18.72		Right	-	-	-	
		High	Left	631.98	-31.36	-25.34		Left	741.00	-23.30	-17.28	
			Right	652.04	-32.90	-26.88		Right	746.00	-23.21	-17.19	
	16QAM	Low	Left	617.00	-28.66	-22.64		Left	-	-	-	
			Right	622.00	-28.30	-22.28		Right	-	-	-	
		High	Left	632.00	-30.08	-24.06		Left	740.93	-25.36	-19.34	
			Right	652.08	-32.34	-26.32		Right	746.00	-24.70	-18.68	
	64QAM	Low	Left	617.00	-28.35	-22.33		Left	-	-	-	
			Right	622.00	-29.17	-23.15		Right	-	-	-	
		High	Left	632.00	-31.29	-25.27		Left	741.00	-25.50	-19.48	
			Right	652.04	-32.65	-26.63		Right	746.00	-26.12	-20.10	
	256QAM	Low	Left	617.00	-29.00	-22.98		Left	-	-	-	
			Right	622.00	-28.79	-22.77		Right	-	-	-	
		High	Left	632.00	-30.46	-24.44		Left	741.00	-25.31	-19.29	
			Right	652.08	-32.83	-26.81		Right	746.00	-25.45	-19.43	

(4 Port) B71 LTE(Lower) 5 MHz 1 Carrier + n71 5G NR(Upper) 20 MHz 1 Carrier + B85 LTE(Lower) 5 MHz
[3 Carrier]

ANT	Mod.	B71 LTE (Lower) 5 MHz 1 Carrier + N71 5G NR (Upper) 5 MHz 1 Carrier					B85 LTE(Lower) 5 MHz 1 Carrier					Limit (dBm)
		Ch.	Edge Position	Freq. (MHz)	Measured Value (dBm)	Corrected Measured Level (dBm)	Ch.	Edge Position	Freq. (MHz)	Measured Value (dBm)	Corrected Measured Level (dBm)	
0	QPSK	Low	Left	617.00	-25.29	-19.27	Low	Left	728.00	-24.57	728.00	-13
			Right	622.00	-25.26	-19.24		Right	733.00	-24.22	733.00	
		High	Left	632.00	-32.46	-26.44		Left	-	-	-	
			Right	652.06	-33.86	-27.84		Right	-	-	-	
	16QAM	Low	Left	617.00	-25.44	-19.42		Left	728.00	-25.08	-19.06	
			Right	622.00	-23.90	-17.88		Right	733.00	-23.58	-17.56	
		High	Left	632.00	-32.16	-26.14		Left	-	-	-	
			Right	652.04	-33.23	-27.21		Right	-	-	-	
	64QAM	Low	Left	617.00	-24.97	-18.95		Left	728.00	-24.18	-18.16	
			Right	622.00	-25.16	-19.14		Right	733.00	-24.53	-18.51	
		High	Left	632.00	-32.08	-26.06		Left	-	-	-	
			Right	652.00	-34.18	-28.16		Right	-	-	-	
	256QAM	Low	Left	617.00	-25.39	-19.37		Left	728.00	-23.98	-17.96	
			Right	622.00	-24.56	-18.54		Right	733.00	-24.19	-18.17	
		High	Left	631.96	-32.11	-26.09		Left	-	-	-	
			Right	652.00	-34.09	-28.07		Right	-	-	-	
1	QPSK	Low	Left	617.00	-24.83	-18.81		Left	728.00	-23.72	-17.70	
			Right	622.00	-25.01	-18.99		Right	733.00	-23.54	-17.52	
		High	Left	631.94	-30.69	-24.67		Left	-	-	-	
			Right	652.00	-32.12	-26.10		Right	-	-	-	
	16QAM	Low	Left	617.00	-25.35	-19.33		Left	728.00	-24.58	-18.56	
			Right	622.00	-24.88	-18.86		Right	733.00	-23.60	-17.58	
		High	Left	632.00	-30.25	-24.23		Left	-	-	-	
			Right	652.04	-30.66	-24.64		Right	-	-	-	
	64QAM	Low	Left	617.00	-24.67	-18.65		Left	728.00	-24.00	-17.98	
			Right	622.00	-24.60	-18.58		Right	733.00	-24.53	-18.51	
		High	Left	631.98	-30.88	-24.86		Left	-	-	-	
			Right	652.00	-31.31	-25.29		Right	-	-	-	
	256QAM	Low	Left	617.00	-25.10	-19.08		Left	728.00	-24.34	-18.32	
			Right	622.00	-24.69	-18.67		Right	733.00	-23.35	-17.33	
		High	Left	632.00	-29.80	-23.78		Left	-	-	-	
			Right	652.02	-32.19	-26.17		Right	-	-	-	

ANT	Mod.	B71 LTE (Lower) 5 MHz 1 Carrier + N71 5G NR (Upper) 5 MHz 1 Carrier					B85 LTE(Lower) 5 MHz 1 Carrier					Limit (dBm)
		Ch.	Edge Position	Freq. (MHz)	Measured Value (dBm)	Corrected Measured Level (dBm)	Ch.	Edge Position	Freq. (MHz)	Measured Value (dBm)	Corrected Measured Level (dBm)	
2	QPSK	Low	Left	617.00	-25.09	-19.07	Low	Left	728.00	-24.86	-18.84	-13
			Right	622.00	-25.15	-19.13		Right	733.00	-24.43	-18.41	
		High	Left	631.90	-30.52	-24.50		Left	-	-	-	
			Right	652.06	-31.54	-25.52		Right	-	-	-	
	16QAM	Low	Left	617.00	-25.00	-18.98		Left	728.00	-24.35	-18.33	
			Right	622.00	-24.31	-18.29		Right	733.00	-23.41	-17.39	
		High	Left	632.00	-29.98	-23.96		Left	-	-	-	
			Right	652.02	-31.99	-25.97		Right	-	-	-	
	64QAM	Low	Left	617.00	-24.19	-18.17		Left	728.00	-25.63	-19.61	
			Right	622.00	-25.25	-19.23		Right	733.00	-24.50	-18.48	
		High	Left	632.00	-30.82	-24.80		Left	-	-	-	
			Right	652.00	-31.01	-24.99		Right	-	-	-	
	256QAM	Low	Left	617.00	-24.89	-18.87		Left	728.00	-24.32	-18.30	
			Right	622.00	-24.13	-18.11		Right	733.00	-23.56	-17.54	
		High	Left	632.00	-30.65	-24.63		Left	-	-	-	
			Right	652.00	-31.25	-25.23		Right	-	-	-	
3	QPSK	Low	Left	617.00	-24.96	-18.94	Low	Left	728.00	-24.14	-18.12	-13
			Right	622.00	-24.80	-18.78		Right	733.00	-23.19	-17.17	
		High	Left	631.96	-31.44	-25.42		Left	-	-	-	
			Right	652.04	-33.16	-27.14		Right	-	-	-	
	16QAM	Low	Left	617.00	-24.82	-18.80		Left	728.00	-24.61	-18.59	
			Right	622.00	-24.72	-18.70		Right	733.00	-23.54	-17.52	
		High	Left	632.00	-29.77	-23.75		Left	-	-	-	
			Right	652.04	-32.21	-26.19		Right	-	-	-	
	64QAM	Low	Left	617.00	-24.69	-18.67		Left	728.00	-23.56	-17.54	
			Right	622.00	-24.57	-18.55		Right	733.00	-24.52	-18.50	
		High	Left	632.00	-31.93	-25.91		Left	-	-	-	
			Right	652.04	-32.55	-26.53		Right	-	-	-	
	256QAM	Low	Left	617.00	-25.20	-19.18		Left	728.00	-23.94	-17.92	
			Right	622.00	-24.76	-18.74		Right	733.00	-23.18	-17.16	
		High	Left	631.94	-31.23	-25.21		Left	-	-	-	
			Right	652.08	-33.31	-27.29		Right	-	-	-	

Plot Data of Out-of-band Unwanted Emissions

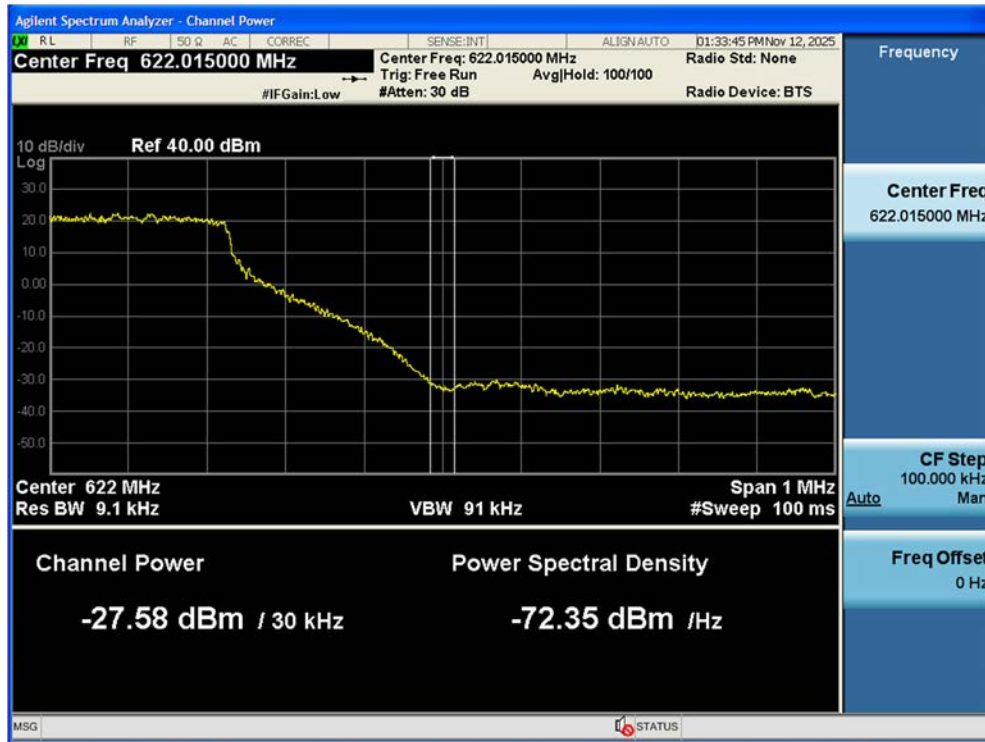
Antenna 2 / (4 Port) n71 5G NR 5 MHz 1 Carrier / 256QAM / Low / Left



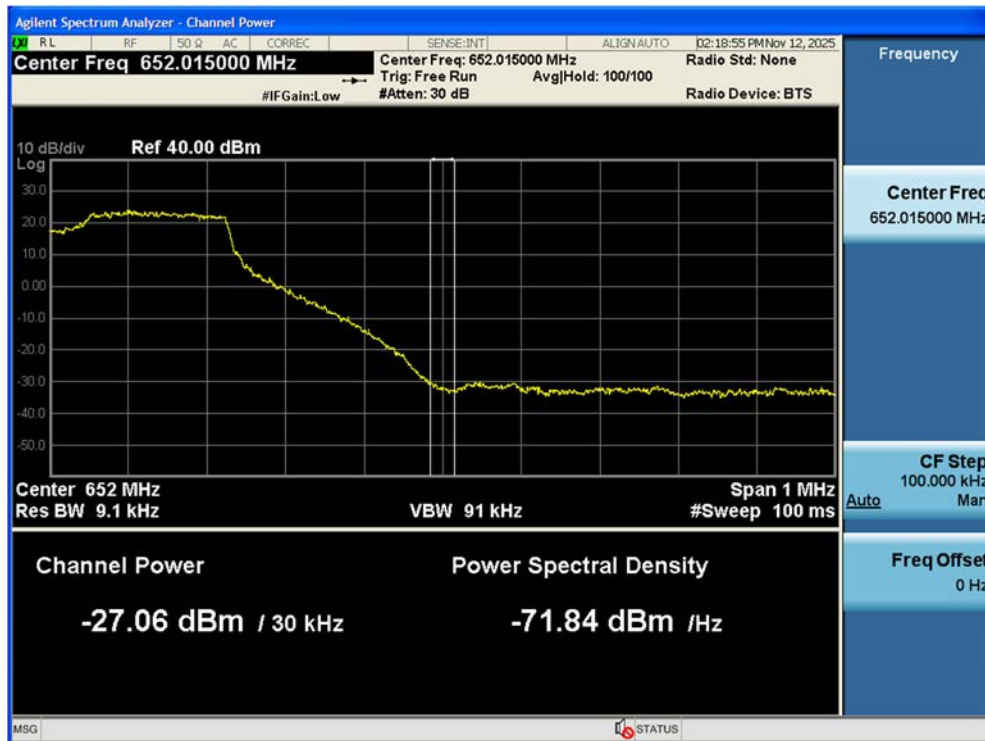
Antenna 1 / (4 Port) n71 5G NR 5 MHz 1 Carrier / 16QAM / High / Left



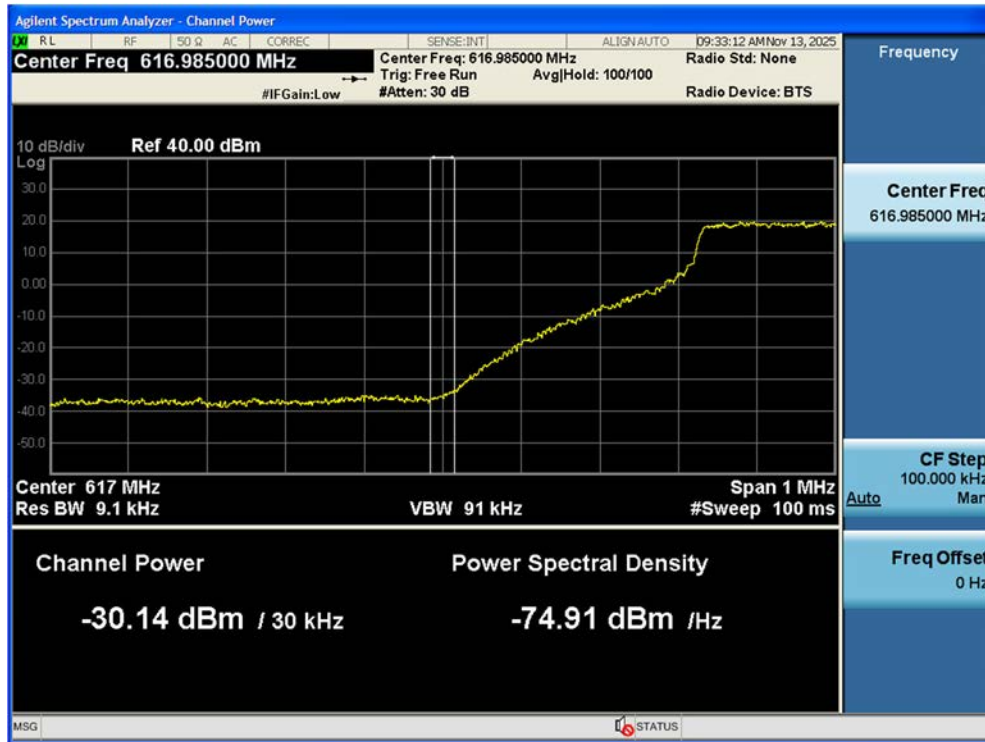
Antenna 3 / (4 Port) n71 5G NR 5 MHz 1 Carrier / 256QAM / Low / Right



Antenna 1 / (4 Port) n71 5G NR 5 MHz 1 Carrier / 16QAM / High / Right



Antenna 0 / (4 Port) n71 5G NR 10 MHz 1 Carrier / QPSK / Low / Left



Antenna 1 / (4 Port) n71 5G NR 10 MHz 1 Carrier / QPSK / High / Left

