

# TEST REPORT

FCC Test for MT6407-77A  
Class II Permissive Change

**APPLICANT**  
SAMSUNG Electronics Co., Ltd.

**REPORT NO.**  
HCT-RF-2306-FC001

**DATE OF ISSUE**  
June 9, 2023

**Tested by**  
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**TEST  
REPORT**  
FCC Test for  
MT6407-77A

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HCT-RF-2306-FC001

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June 09, 2023

**Additional Model**  
-

<b>Applicant</b>	<b>SAMSUNG Electronics Co., Ltd.</b> 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Rep. of Korea
<b>EUT Type</b>	MMU(MT6407)
<b>Model Name</b>	MT6407-77A
<b>FCC ID</b>	A3LMT6407-77A
<b>Date of Test</b>	April 24, 2023 ~ June 09, 2023
<b>FCC Rule Parts:</b>	CFR 47 Part 2, Part 27

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

## REVISION HISTORY

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

Revision No.	Date of Issue	Description
0	June 09, 2023	Initial Release

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

If this report is required to confirmation of authenticity, please contact to [www.hct.co.kr](http://www.hct.co.kr)

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## 1. GENERAL INFORMATION

### 1.1. APPLICANT INFORMATION

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

### 1.2. PRODUCT INFORMATION

EUT Type	MMU(MT6407)					
EUT Serial Number	S618621923					
Power Supply	-48 VDC					
Output Power	Band	Carrier	Bandwidth	Power		
	(64 Port) 5G NR n77	1	20 MHz	1.563 W/path, Total: 100 W		
	(64 Port) 5G NR n77	1	40 MHz	2.500 W/path, Total: 160 W		
	(64 Port) 5G NR n77	1	80 MHz	3.125 W/path, Total: 200 W		
	(64 Port) 5G NR n77 (Contiguous)	2	100 MHz + 40 MHz	3.125 W/path, Total: 200 W		
	(64 Port) 5G NR n77 (Contiguous, Asymmetric)	2	100 MHz + 40 MHz (1.5625 W/path + 1.5625 W/path)	3.125 W/path, Total: 200 W		
(64 Port) 5G NR n77 (Contiguous, Asymmetric)	2	100 MHz + 100 MHz (2.8125 W/path + 0.3125 W/path)	3.125 W/path, Total: 200 W			
Frequency Range	3.7 GHz Service : 3 700 MHz ~ 3 980 MHz					
Emission Designator	Mode	Bandwidth	Emission Designator			
			QPSK (G7D)	Conducted (W)	16/64/256 QAM (W7D)	Conducted (W)
	(64 Port) 5G NR n77	20 MHz	18M4G7D	104.19	18M4W7D	105.67
	(64 Port) 5G NR n77	40 MHz	38M0G7D	168.70	38M1W7D	170.88
	(64 Port) 5G NR n77	80 MHz	77M5G7D	204.49	77M7W7D	211.13
	(64 Port) 5G NR n77	100 MHz + 40 MHz	136MG7D	203.54	137MW7D	207.70
(64 Port) 5G NR n77	100 MHz + 40 MHz (Asymmetric)	137MG7D	214.08	137MW7D	215.98	
(64 Port) 5G NR n77	100 MHz + 100 MHz (Asymmetric)	192MG7D	215.80	193MW7D	215.35	
Modulation Type	QPSK, 16QAM, 64QAM, 256QAM					
Antenna Specification	Antenna type: integrated antenna Peak Gain: 25.5 dBi					

### 1.3. TEST INFORMATION

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

## 2. FACILITIES AND ACCREDITATIONS

### 2.1. FACILITIES

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

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

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

### 2.2. EQUIPMENT

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

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

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

### 3. TEST SPECIFICATIONS

#### 3.1. STANDARDS

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

Description	Reference	Results
RF Output Power and PSD	§ 2.1046, § 27.50(j)(2)	Compliant
PAPR	§ 27.50(j)(4)	Compliant
Occupied Bandwidth	§ 2.1049	Compliant
Out-of-band Unwanted Emissions	§ 2.1051, § 27.53(l)(1)	Compliant
Spurious Unwanted Emissions		Compliant
Radiated Emissions	§ 2.1053, § 27.53(l)(1)	Compliant
Frequency Stability	§ 2.1055, § 27.54	Compliant

**Note:**

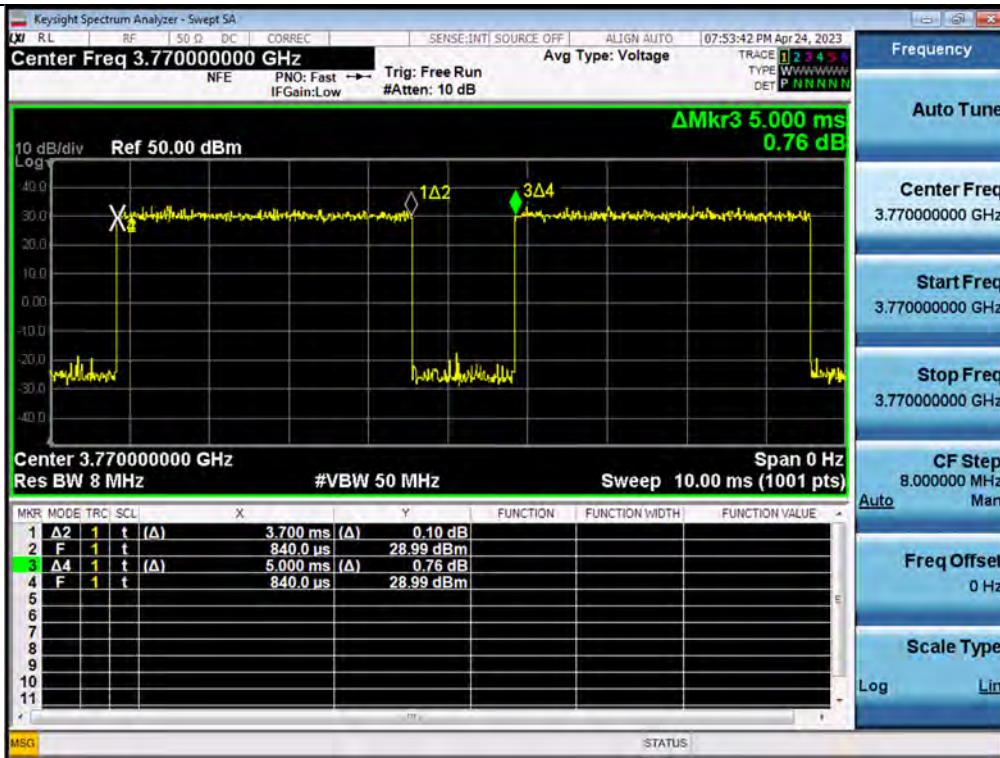
1. The equipment changes of C2PC models does not degrade the data reported to the Commission in original application report listed below.  
FCC ID: A3LMT6407-77A previous report.
  - Original equipment report no. HCT-RF-2111-FC092
2. The data from that application has been verified through appropriate spot checks to demonstrate compliance for this device as shown in the test result.
3. Output power was verified to be within the expected tune up tolerances prior to performing the spot checks for radiated spurious emissions.



### 3.2. ADDITIONAL DESCRIPTIONS ABOUT TEST

- The EUT was operated in a manner representative of the typical usage of the equipment.
- During all testing, system components were manipulated within the confines of typical usage to maximize each emission.
- All NR modulation types (QPSK, 16QAM, 64QAM, 256QAM) have been tested.
- All mode of operation, supporting bandwidth and frequencies were investigated. The test plots shown in the following sections represent the worst case emissions.
- The measurement has performed for NR Carrier in the mode of full resource Block size as worst case to transmit maximum output power condition.
- Unwanted conducted emissions were performed on one port with a maximum output power level.
- The dummy loads were connected to the RF output ports for radiated spurious emission testing.
- Because of the EUT using TDD technology, it cannot be configured to transmit continuously and measurement instrument cannot be configured to measure only during active transmissions. So, we performed the measurement using duty cycle method.

Measurement Result of MT6407-77A Transmit On/Off Timing



- The EUT duty cycle is calculated according to ANSI C63.26 - 5.2.4.3.4.

$$\text{Duty Cycle} = \text{On-time} / \text{Transmitter period} = 3.7 \text{ ms} / 5.0 \text{ ms} = 0.74$$

$$\text{Duty Correction} = 10 \log (1/\text{duty cycle}) = 10 \log (1/0.74) = 1.307 \text{ dB}$$

- 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.

**Correction factor table**

Frequency (MHz)	Factor (dB)	Frequency (MHz)	Factor (dB)
400	21.112	11 000	27.083
600	21.571	12 000	27.378
800	21.959	13 000	26.922
1 000	22.391	14 000	27.614
1 200	22.689	15 000	27.780
1 400	22.991	16 000	28.269
1 600	23.287	17 000	29.397
1 800	23.478	18 000	29.304
2 000	23.762	19 000	28.564
2 200	23.972	20 000	29.331
2 400	24.152	21 000	29.383
2 600	24.349	22 000	30.341
2 800	24.620	23 000	30.864
3 000	24.885	24 000	30.965
3 100	24.904	25 000	31.502
3 200	24.973	26 000	31.024
3 300	25.088	27 000	24.410
3 400	40.204	28 000	24.583
3 500	40.316	29 000	24.997
3 600	40.530	30 000	24.932
3 700	41.063	31 000	26.509
3 800	41.059	32 000	26.470
3 900	40.855	33 000	26.028
4 000	41.169	34 000	25.002
5 000	27.214	35 000	25.252
6 000	27.352	36 000	25.519
7 000	28.227	37 000	25.499
8 000	28.939	38 000	25.594
9 000	29.396	39 000	25.889
10 000	26.795	40 000	25.108

### 3.3. MAXIMUM MEASUREMENT UNCERTAINTY

Description	Condition	Uncertainty
Radiated Disturbance	9 kHz ~ 30 MHz	4.14 dB
	30 MHz ~ 1 GHz	5.82 dB
	1 GHz ~ 18 GHz	5.74 dB
	18 GHz ~ 40 GHz	5.76 dB

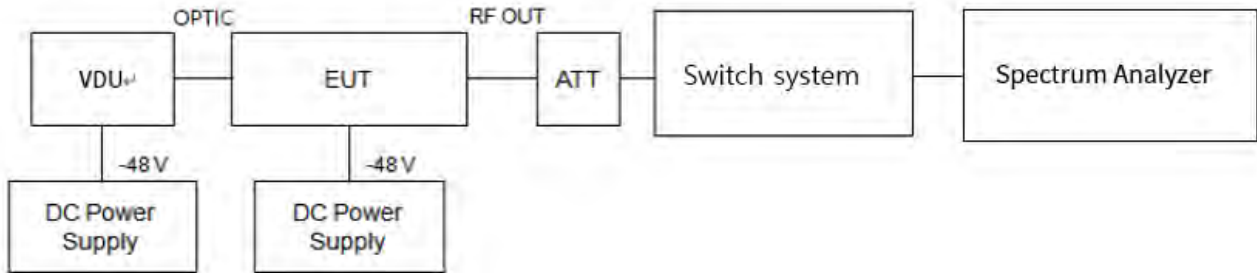
Coverage factor  $k=2$ , Confidence levels of 95 %

### 3.4. STANDARDS ENVIRONMENTAL TEST CONDITIONS

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

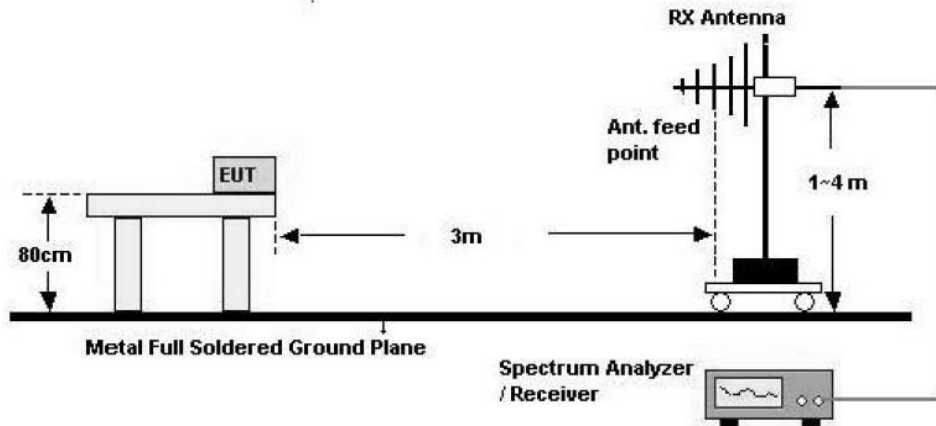
## 3.5. TEST DIAGRAMS

## Conducted Test

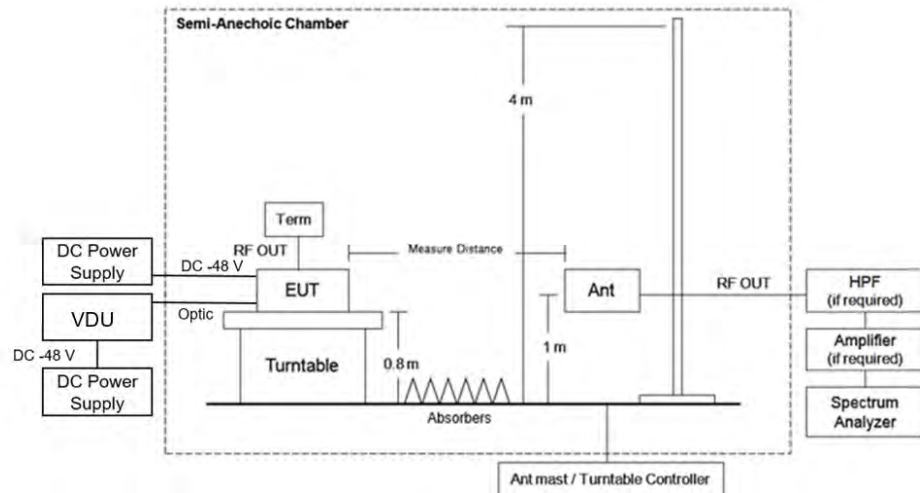


## Radiated Test

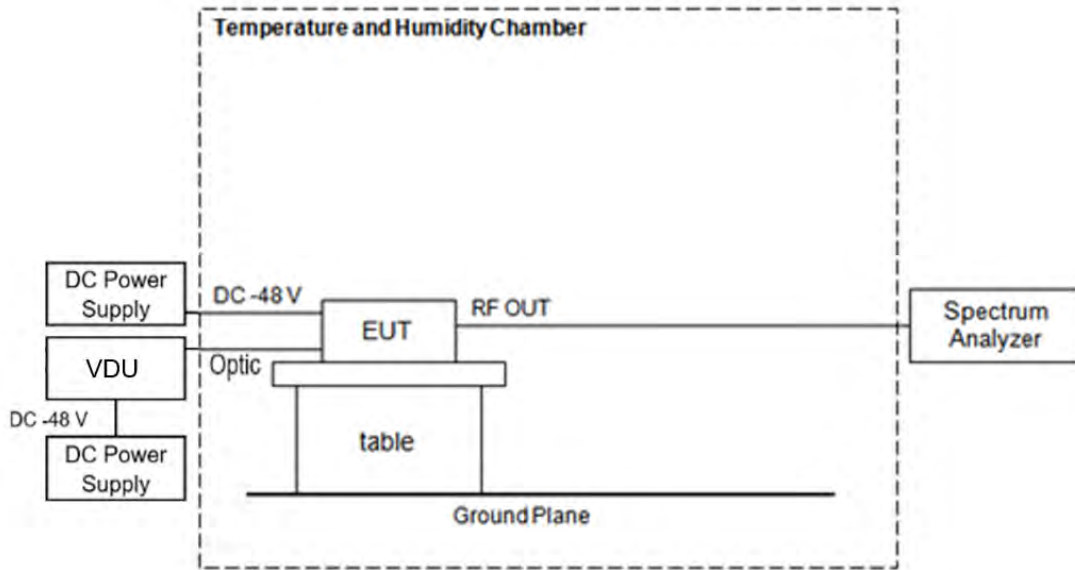
30 MHz ~ 1 GHz



Above 1 GHz


**Note:** Measure Distance for Above 1 GHz is 3 m.

## Frequency Stability



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

#### 4. TEST EQUIPMENTS

Equipment	Model	Manufacturer	Serial No.	Due to Calibration	Calibration Interval
PXA Signal Analyzer	N9030A	Keysight	MY49431434	2024-01-02	Annual
MXA Signal Analyzer	N9020A	Agilent	MY46471250	2023-07-22	Annual
RF Switch System	TMX0132C	TNM System	TM21100002	N/A	N/A
*30 dB Attenuator	TWAN-300-18G	Teleworld	N/A	2023-08-22	Annual
*50Ω Termination	908A	H.P.	N/A	N/A	N/A
*30 dB Attenuator	WA93-30-33	Weinschel, Inc.	0184	2023-11-21	Annual
Coaxial Attenuator	FAS-23-20	MCLI	103756	2024-01-03	Annual
DC Power Supply	PCR4000M	KIKUSUI	VM002269	2023-09-30	Annual
DC Power Supply	6674A	Agilent	MY41003340	2023-07-06	Annual
Temperature and Humidity Chamber	NY-THR18750	NANGYEAL	NY-200912201A	2024-01-26	Annual
Amp & Filter Bank Switch Controller	FBSM-01B	TNM system	TM20090002	N/A	N/A
Controller(Antenna mast & Turn Table)	CO3000	Innco systems	CO3000/1251/48920320/P	N/A	N/A
Antenna Position Tower	MA4640/800-XP-ET	Innco systems	N/A	N/A	N/A
Turn Table	DS2000-S	Innco systems	N/A	N/A	N/A
Turn Table	Turn Table	Ets	N/A	N/A	N/A
Loop Antenna	FMZB 1513	Schwarzbeck	1513-333	2024-03-17	Biennial
Hybrid Antenna	VULB 9168	Schwarzbeck	01039	2023-07-14	Biennial
Horn Antenna	BBHA 9120D	Schwarzbeck	02296	2024-05-18	Biennial
Horn Antenna(15 GHz ~ 40 GHz)	BBHA9170	Schwarzbeck	BBHA9170342	2024-09-29	Biennial
RF Switching System	FBSR-04C (7G HPF+LNA)	T&M SYSTEM	S4L5	2023-08-23	Annual
Power Amplifier	CBL18265035	CERNEX	22966	2023-12-01	Annual
Power Amplifier	CBL26405040	CERNEX	25956	2024-03-02	Annual

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

**Note:**

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. 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.

- (j) The following power requirements apply to stations transmitting in the 3700-3980 MHz band:
  - (1) The power of each fixed or base station transmitting in the 3700-3980 MHz band and located in any county with population density of 100 or fewer persons per square mile, based upon the most recently available population statistics from the Bureau of the Census, is limited to an equivalent isotropically radiated power (EIRP) of 3280 Watts/MHz. This limit applies to the aggregate power of all antenna elements in any given sector of a base station.
  - (2) The power of each fixed or base station transmitting in the 3700-3980 MHz band and situated in any geographic location other than that described in paragraph (j)(1) of this section is limited to an EIRP of 1640 Watts/MHz. This limit applies to the aggregate power of all antenna elements in any given sector of a base station.
  - (4) Equipment employed must be authorized in accordance with the provisions of § 27.51. Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (j)(5) of this section. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

**Test Procedures:**

The measurement is performed in accordance with Section 5.2.4.4.2 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  $\geq [10 \times (\text{number of points in sweep}) \times (\text{transmission period})]$  for single sweep (automation-compatible) measurement. Transmission period is the on and off time of the transmitter.
- 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 measurement is performed in accordance with Section 5.2.4.5 of ANSI C63.26.

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

When average PSD limits are specified, the same fundamental measurement condition applies as previously discussed (i.e., averaging is to be performed only over durations of active transmissions at maximum output power level).

Thus, when performing this measurement, the EUT must either be configured to transmit continuously at full power while the compliance measurement is performed, or else the measurement instrumentation must be configured to acquire data only over durations when the EUT is actively transmitting at full power. In circumstances where neither of these conditions can be realized, then alternative procedures are provided for both constant duty cycle and non-constant duty cycle transmissions. The PSD is measured following the same procedures described in 5.2.4.4 for measuring the total average power, but with the RBW set to the reference bandwidth specified by the applicable regulatory requirement, and by using the marker function to identify the maximum PSD instead of summing the power across the OBW.



If the fundamental measurement condition cannot be realized, then one of the alternative procedures in 5.2.4.4.2 or 5.2.4.4.3 should be selected, based on whether the transmitter duty cycle is constant (variations  $\leq \pm 2\%$ ) or non-constant (variations  $> \pm 2\%$ ), respectively.

**Note:**

1. Test results show that carrier configurations in which E.I.R.P. is greater than 1640 W/MHz, but less than 3280 W/MHz, are 5G NR 20 MHz and 5G NR 40 MHz. In order to meet 1640 W/MHz limit when the base station is located in any geographic location other than that described in paragraph (j)(1) of Part 27.50, attenuation is needed as shown below.
  - 5G NR 20 MHz:  $64.16 \text{ dBm/MHz (2605.87 W/MHz)} - 62.15 \text{ dBm/MHz (1640 W/MHz)} = 2.01 \text{ dB}$
  - 5G NR 40 MHz:  $63.16 \text{ dBm/MHz (2068.71 W/MHz)} - 62.15 \text{ dBm/MHz (1640 W/MHz)} = 1.01 \text{ dB}$
2. The results of the RF output power and PSD test shown above the frequency measured values are very small and similar trend for each port, so we are attached only the worst case plot.

**Test Results:**  
**Tabular Data of RF output power**
**(64 Port) 5G NR n77 20 MHz [1 Carrier]**

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	3 710.00	32.13	1.63
		Middle	3 840.00	31.71	1.48
		High	3 970.00	31.45	1.40
	16QAM	Low	3 710.00	32.14	1.64
		Middle	3 840.00	31.77	1.50
		High	3 970.00	31.88	1.54
	64QAM	Low	3 710.00	32.16	1.64
		Middle	3 840.00	31.95	1.57
		High	3 970.00	31.80	1.51
	256QAM	Low	3 710.00	32.17	1.65
		Middle	3 840.00	32.04	1.60
		High	3 970.00	31.91	1.55
1	QPSK	Low	3 710.00	32.59	1.82
		Middle	3 840.00	32.41	1.74
		High	3 970.00	32.38	1.73
	16QAM	Low	3 710.00	32.89	1.94
		Middle	3 840.00	32.57	1.81
		High	3 970.00	32.70	1.86
	64QAM	Low	3 710.00	32.89	1.94
		Middle	3 840.00	32.58	1.81
		High	3 970.00	32.68	1.86
	256QAM	Low	3 710.00	32.92	1.96
		Middle	3 840.00	32.66	1.84
		High	3 970.00	32.73	1.87

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
2	QPSK	Low	3 710.00	31.77	1.50
		Middle	3 840.00	31.81	1.52
		High	3 970.00	31.57	1.44
	16QAM	Low	3 710.00	32.00	1.58
		Middle	3 840.00	32.07	1.61
		High	3 970.00	31.79	1.51
	64QAM	Low	3 710.00	32.05	1.60
		Middle	3 840.00	32.06	1.61
		High	3 970.00	31.85	1.53
	256QAM	Low	3 710.00	32.00	1.59
		Middle	3 840.00	32.12	1.63
		High	3 970.00	31.90	1.55
3	QPSK	Low	3 710.00	32.26	1.68
		Middle	3 840.00	32.31	1.70
		High	3 970.00	32.05	1.60
	16QAM	Low	3 710.00	32.55	1.80
		Middle	3 840.00	32.59	1.82
		High	3 970.00	32.31	1.70
	64QAM	Low	3 710.00	32.54	1.79
		Middle	3 840.00	32.49	1.77
		High	3 970.00	32.37	1.73
	256QAM	Low	3 710.00	32.53	1.79
		Middle	3 840.00	32.57	1.81
		High	3 970.00	32.38	1.73
4	QPSK	Low	3 710.00	31.88	1.54
		Middle	3 840.00	31.89	1.55
		High	3 970.00	31.78	1.50
	16QAM	Low	3 710.00	32.15	1.64
		Middle	3 840.00	32.16	1.64
		High	3 970.00	31.94	1.56
	64QAM	Low	3 710.00	32.14	1.64
		Middle	3 840.00	32.07	1.61
		High	3 970.00	31.98	1.58
	256QAM	Low	3 710.00	32.10	1.62
		Middle	3 840.00	32.09	1.62
		High	3 970.00	32.03	1.59

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
5	QPSK	Low	3 710.00	32.33	1.71
		Middle	3 840.00	32.05	1.60
		High	3 970.00	32.01	1.59
	16QAM	Low	3 710.00	32.57	1.81
		Middle	3 840.00	32.35	1.72
		High	3 970.00	32.24	1.68
	64QAM	Low	3 710.00	32.58	1.81
		Middle	3 840.00	32.28	1.69
		High	3 970.00	32.26	1.68
	256QAM	Low	3 710.00	32.52	1.79
		Middle	3 840.00	32.38	1.73
		High	3 970.00	32.30	1.70
6	QPSK	Low	3 710.00	32.10	1.62
		Middle	3 840.00	31.89	1.55
		High	3 970.00	31.70	1.48
	16QAM	Low	3 710.00	32.33	1.71
		Middle	3 840.00	32.11	1.63
		High	3 970.00	31.98	1.58
	64QAM	Low	3 710.00	32.28	1.69
		Middle	3 840.00	32.07	1.61
		High	3 970.00	31.95	1.57
	256QAM	Low	3 710.00	32.30	1.70
		Middle	3 840.00	32.07	1.61
		High	3 970.00	32.00	1.59
7	QPSK	Low	3 710.00	31.96	1.57
		Middle	3 840.00	31.80	1.51
		High	3 970.00	31.97	1.57
	16QAM	Low	3 710.00	32.21	1.66
		Middle	3 840.00	32.26	1.68
		High	3 970.00	32.13	1.63
	64QAM	Low	3 710.00	32.19	1.66
		Middle	3 840.00	32.19	1.66
		High	3 970.00	32.15	1.64
	256QAM	Low	3 710.00	32.16	1.65
		Middle	3 840.00	32.27	1.69
		High	3 970.00	32.13	1.63

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
8	QPSK	Low	3 710.00	32.03	1.60
		Middle	3 840.00	31.92	1.56
		High	3 970.00	31.39	1.38
	16QAM	Low	3 710.00	32.09	1.62
		Middle	3 840.00	32.01	1.59
		High	3 970.00	31.51	1.42
	64QAM	Low	3 710.00	32.10	1.62
		Middle	3 840.00	31.69	1.48
		High	3 970.00	31.46	1.40
	256QAM	Low	3 710.00	32.00	1.59
		Middle	3 840.00	31.80	1.51
		High	3 970.00	31.47	1.40
9	QPSK	Low	3 710.00	31.87	1.54
		Middle	3 840.00	31.61	1.45
		High	3 970.00	30.99	1.26
	16QAM	Low	3 710.00	31.88	1.54
		Middle	3 840.00	31.54	1.43
		High	3 970.00	31.01	1.26
	64QAM	Low	3 710.00	31.90	1.55
		Middle	3 840.00	31.41	1.38
		High	3 970.00	31.03	1.27
	256QAM	Low	3 710.00	31.78	1.51
		Middle	3 840.00	31.45	1.39
		High	3 970.00	31.03	1.27
10	QPSK	Low	3 710.00	32.14	1.64
		Middle	3 840.00	32.06	1.61
		High	3 970.00	31.84	1.53
	16QAM	Low	3 710.00	32.32	1.70
		Middle	3 840.00	32.28	1.69
		High	3 970.00	31.98	1.58
	64QAM	Low	3 710.00	32.36	1.72
		Middle	3 840.00	32.06	1.61
		High	3 970.00	31.96	1.57
	256QAM	Low	3 710.00	32.23	1.67
		Middle	3 840.00	32.17	1.65
		High	3 970.00	31.97	1.57

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
11	QPSK	Low	3 710.00	32.61	1.83
		Middle	3 840.00	32.23	1.67
		High	3 970.00	32.45	1.76
	16QAM	Low	3 710.00	32.70	1.86
		Middle	3 840.00	32.55	1.80
		High	3 970.00	32.52	1.79
	64QAM	Low	3 710.00	32.73	1.87
		Middle	3 840.00	32.38	1.73
		High	3 970.00	32.50	1.78
	256QAM	Low	3 710.00	32.71	1.87
		Middle	3 840.00	32.45	1.76
		High	3 970.00	32.53	1.79
12	QPSK	Low	3 710.00	32.48	1.77
		Middle	3 840.00	32.28	1.69
		High	3 970.00	32.00	1.59
	16QAM	Low	3 710.00	32.52	1.79
		Middle	3 840.00	32.54	1.80
		High	3 970.00	31.95	1.57
	64QAM	Low	3 710.00	32.59	1.81
		Middle	3 840.00	32.19	1.66
		High	3 970.00	32.01	1.59
	256QAM	Low	3 710.00	32.58	1.81
		Middle	3 840.00	32.30	1.70
		High	3 970.00	31.95	1.57
13	QPSK	Low	3 710.00	32.04	1.60
		Middle	3 840.00	31.79	1.51
		High	3 970.00	31.67	1.47
	16QAM	Low	3 710.00	32.10	1.62
		Middle	3 840.00	32.20	1.66
		High	3 970.00	31.64	1.46
	64QAM	Low	3 710.00	32.12	1.63
		Middle	3 840.00	31.74	1.49
		High	3 970.00	31.65	1.46
	256QAM	Low	3 710.00	32.09	1.62
		Middle	3 840.00	31.85	1.53
		High	3 970.00	31.72	1.49

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
14	QPSK	Low	3 710.00	32.40	1.74
		Middle	3 840.00	32.40	1.74
		High	3 970.00	31.97	1.57
	16QAM	Low	3 710.00	32.52	1.79
		Middle	3 840.00	32.74	1.88
		High	3 970.00	32.00	1.58
	64QAM	Low	3 710.00	32.50	1.78
		Middle	3 840.00	32.27	1.68
		High	3 970.00	32.07	1.61
	256QAM	Low	3 710.00	32.44	1.75
		Middle	3 840.00	32.36	1.72
		High	3 970.00	32.08	1.61
15	QPSK	Low	3 710.00	32.13	1.63
		Middle	3 840.00	32.07	1.61
		High	3 970.00	31.69	1.48
	16QAM	Low	3 710.00	32.18	1.65
		Middle	3 840.00	32.50	1.78
		High	3 970.00	31.65	1.46
	64QAM	Low	3 710.00	32.21	1.66
		Middle	3 840.00	32.10	1.62
		High	3 970.00	31.64	1.46
	256QAM	Low	3 710.00	32.13	1.63
		Middle	3 840.00	32.17	1.65
		High	3 970.00	31.65	1.46
16	QPSK	Low	3 710.00	31.88	1.54
		Middle	3 840.00	31.79	1.51
		High	3 970.00	32.44	1.76
	16QAM	Low	3 710.00	31.98	1.58
		Middle	3 840.00	32.58	1.81
		High	3 970.00	32.43	1.75
	64QAM	Low	3 710.00	31.99	1.58
		Middle	3 840.00	32.43	1.75
		High	3 970.00	32.48	1.77
	256QAM	Low	3 710.00	32.01	1.59
		Middle	3 840.00	32.53	1.79
		High	3 970.00	32.59	1.82

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
17	QPSK	Low	3 710.00	31.93	1.56
		Middle	3 840.00	31.54	1.43
		High	3 970.00	31.74	1.49
	16QAM	Low	3 710.00	32.03	1.60
		Middle	3 840.00	31.98	1.58
		High	3 970.00	31.80	1.52
	64QAM	Low	3 710.00	31.99	1.58
		Middle	3 840.00	31.85	1.53
		High	3 970.00	31.82	1.52
256QAM	Low	3 710.00	31.93	1.56	
	Middle	3 840.00	31.88	1.54	
	High	3 970.00	31.83	1.52	
18	QPSK	Low	3 710.00	32.07	1.61
		Middle	3 840.00	32.05	1.60
		High	3 970.00	32.41	1.74
	16QAM	Low	3 710.00	32.11	1.63
		Middle	3 840.00	32.80	1.91
		High	3 970.00	32.44	1.76
	64QAM	Low	3 710.00	32.16	1.64
		Middle	3 840.00	32.63	1.83
		High	3 970.00	32.48	1.77
256QAM	Low	3 710.00	32.19	1.66	
	Middle	3 840.00	32.68	1.86	
	High	3 970.00	32.46	1.76	
19	QPSK	Low	3 710.00	32.52	1.79
		Middle	3 840.00	32.35	1.72
		High	3 970.00	32.90	1.95
	16QAM	Low	3 710.00	32.53	1.79
		Middle	3 840.00	32.75	1.89
		High	3 970.00	32.76	1.89
	64QAM	Low	3 710.00	32.50	1.78
		Middle	3 840.00	32.88	1.94
		High	3 970.00	32.79	1.90
256QAM	Low	3 710.00	32.53	1.79	
	Middle	3 840.00	32.75	1.88	
	High	3 970.00	32.78	1.89	



Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
20	QPSK	Low	3 710.00	31.98	1.58
		Middle	3 840.00	31.98	1.58
		High	3 970.00	32.45	1.76
	16QAM	Low	3 710.00	32.09	1.62
		Middle	3 840.00	32.50	1.78
		High	3 970.00	32.33	1.71
	64QAM	Low	3 710.00	32.08	1.61
		Middle	3 840.00	32.59	1.82
		High	3 970.00	32.41	1.74
	256QAM	Low	3 710.00	32.14	1.64
		Middle	3 840.00	32.55	1.80
		High	3 970.00	32.39	1.74
21	QPSK	Low	3 710.00	31.83	1.53
		Middle	3 840.00	31.90	1.55
		High	3 970.00	32.59	1.82
	16QAM	Low	3 710.00	31.86	1.54
		Middle	3 840.00	32.34	1.71
		High	3 970.00	32.46	1.76
	64QAM	Low	3 710.00	31.94	1.56
		Middle	3 840.00	32.49	1.77
		High	3 970.00	32.45	1.76
	256QAM	Low	3 710.00	32.03	1.59
		Middle	3 840.00	32.47	1.77
		High	3 970.00	32.51	1.78
22	QPSK	Low	3 710.00	31.96	1.57
		Middle	3 840.00	31.83	1.52
		High	3 970.00	31.71	1.48
	16QAM	Low	3 710.00	31.93	1.56
		Middle	3 840.00	32.01	1.59
		High	3 970.00	31.61	1.45
	64QAM	Low	3 710.00	31.96	1.57
		Middle	3 840.00	32.12	1.63
		High	3 970.00	31.62	1.45
	256QAM	Low	3 710.00	31.97	1.57
		Middle	3 840.00	32.08	1.61
		High	3 970.00	31.68	1.47

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
23	QPSK	Low	3 710.00	31.95	1.57
		Middle	3 840.00	31.58	1.44
		High	3 970.00	32.14	1.64
	16QAM	Low	3 710.00	31.94	1.56
		Middle	3 840.00	32.24	1.68
		High	3 970.00	32.08	1.61
	64QAM	Low	3 710.00	31.94	1.56
		Middle	3 840.00	32.30	1.70
		High	3 970.00	32.10	1.62
	256QAM	Low	3 710.00	32.00	1.58
		Middle	3 840.00	32.24	1.68
		High	3 970.00	32.13	1.63
24	QPSK	Low	3 710.00	32.07	1.61
		Middle	3 840.00	31.84	1.53
		High	3 970.00	31.82	1.52
	16QAM	Low	3 710.00	32.11	1.62
		Middle	3 840.00	31.84	1.53
		High	3 970.00	31.72	1.49
	64QAM	Low	3 710.00	32.14	1.64
		Middle	3 840.00	31.90	1.55
		High	3 970.00	31.71	1.48
	256QAM	Low	3 710.00	32.12	1.63
		Middle	3 840.00	31.86	1.54
		High	3 970.00	31.75	1.50
25	QPSK	Low	3 710.00	32.32	1.70
		Middle	3 840.00	31.96	1.57
		High	3 970.00	32.30	1.70
	16QAM	Low	3 710.00	32.28	1.69
		Middle	3 840.00	32.10	1.62
		High	3 970.00	32.31	1.70
	64QAM	Low	3 710.00	32.37	1.73
		Middle	3 840.00	32.27	1.69
		High	3 970.00	32.32	1.71
	256QAM	Low	3 710.00	32.41	1.74
		Middle	3 840.00	32.15	1.64
		High	3 970.00	32.26	1.68

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
26	QPSK	Low	3 710.00	32.21	1.66
		Middle	3 840.00	31.69	1.48
		High	3 970.00	31.23	1.33
	16QAM	Low	3 710.00	32.12	1.63
		Middle	3 840.00	31.36	1.37
		High	3 970.00	31.14	1.30
	64QAM	Low	3 710.00	32.20	1.66
		Middle	3 840.00	31.48	1.41
		High	3 970.00	31.25	1.33
256QAM	Low	3 710.00	32.16	1.65	
	Middle	3 840.00	31.44	1.39	
	High	3 970.00	31.21	1.32	
27	QPSK	Low	3 710.00	32.07	1.61
		Middle	3 840.00	31.42	1.39
		High	3 970.00	31.16	1.31
	16QAM	Low	3 710.00	32.12	1.63
		Middle	3 840.00	31.16	1.31
		High	3 970.00	31.12	1.30
	64QAM	Low	3 710.00	32.08	1.62
		Middle	3 840.00	31.23	1.33
		High	3 970.00	31.12	1.30
256QAM	Low	3 710.00	32.13	1.63	
	Middle	3 840.00	31.26	1.34	
	High	3 970.00	31.14	1.30	
28	QPSK	Low	3 710.00	32.33	1.71
		Middle	3 840.00	31.93	1.56
		High	3 970.00	31.61	1.45
	16QAM	Low	3 710.00	32.34	1.71
		Middle	3 840.00	31.85	1.53
		High	3 970.00	31.60	1.45
	64QAM	Low	3 710.00	32.45	1.76
		Middle	3 840.00	31.88	1.54
		High	3 970.00	31.64	1.46
256QAM	Low	3 710.00	32.45	1.76	
	Middle	3 840.00	31.92	1.56	
	High	3 970.00	31.59	1.44	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
29	QPSK	Low	3 710.00	31.94	1.56
		Middle	3 840.00	31.24	1.33
		High	3 970.00	31.18	1.31
	16QAM	Low	3 710.00	31.84	1.53
		Middle	3 840.00	31.27	1.34
		High	3 970.00	31.22	1.33
	64QAM	Low	3 710.00	31.90	1.55
		Middle	3 840.00	31.40	1.38
		High	3 970.00	31.27	1.34
	256QAM	Low	3 710.00	31.93	1.56
		Middle	3 840.00	31.32	1.36
		High	3 970.00	31.26	1.34
30	QPSK	Low	3 710.00	31.88	1.54
		Middle	3 840.00	31.58	1.44
		High	3 970.00	31.19	1.32
	16QAM	Low	3 710.00	31.85	1.53
		Middle	3 840.00	31.23	1.33
		High	3 970.00	31.15	1.30
	64QAM	Low	3 710.00	31.84	1.53
		Middle	3 840.00	31.33	1.36
		High	3 970.00	31.18	1.31
	256QAM	Low	3 710.00	31.87	1.54
		Middle	3 840.00	31.33	1.36
		High	3 970.00	31.11	1.29
31	QPSK	Low	3 710.00	31.57	1.43
		Middle	3 840.00	32.14	1.63
		High	3 970.00	31.44	1.39
	16QAM	Low	3 710.00	31.58	1.44
		Middle	3 840.00	31.92	1.55
		High	3 970.00	31.34	1.36
	64QAM	Low	3 710.00	31.60	1.44
		Middle	3 840.00	31.91	1.55
		High	3 970.00	31.42	1.39
	256QAM	Low	3 710.00	31.62	1.45
		Middle	3 840.00	31.95	1.57
		High	3 970.00	31.38	1.37

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
32	QPSK	Low	3 710.00	32.09	1.62
		Middle	3 840.00	31.62	1.45
		High	3 970.00	31.41	1.38
	16QAM	Low	3 710.00	32.19	1.66
		Middle	3 840.00	31.80	1.52
		High	3 970.00	31.67	1.47
	64QAM	Low	3 710.00	32.29	1.69
		Middle	3 840.00	31.72	1.49
		High	3 970.00	31.70	1.48
	256QAM	Low	3 710.00	32.25	1.68
		Middle	3 840.00	31.82	1.52
		High	3 970.00	31.71	1.48
33	QPSK	Low	3 710.00	32.71	1.86
		Middle	3 840.00	32.22	1.67
		High	3 970.00	32.24	1.67
	16QAM	Low	3 710.00	32.73	1.88
		Middle	3 840.00	32.28	1.69
		High	3 970.00	32.28	1.69
	64QAM	Low	3 710.00	32.73	1.88
		Middle	3 840.00	32.17	1.65
		High	3 970.00	32.22	1.67
	256QAM	Low	3 710.00	32.75	1.88
		Middle	3 840.00	32.25	1.68
		High	3 970.00	32.29	1.69
34	QPSK	Low	3 710.00	32.07	1.61
		Middle	3 840.00	31.83	1.52
		High	3 970.00	31.64	1.46
	16QAM	Low	3 710.00	32.12	1.63
		Middle	3 840.00	31.83	1.52
		High	3 970.00	31.70	1.48
	64QAM	Low	3 710.00	32.14	1.64
		Middle	3 840.00	31.69	1.48
		High	3 970.00	31.68	1.47
	256QAM	Low	3 710.00	32.14	1.63
		Middle	3 840.00	31.76	1.50
		High	3 970.00	31.68	1.47

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
35	QPSK	Low	3 710.00	32.46	1.76
		Middle	3 840.00	32.28	1.69
		High	3 970.00	32.03	1.60
	16QAM	Low	3 710.00	32.52	1.79
		Middle	3 840.00	32.30	1.70
		High	3 970.00	32.08	1.61
	64QAM	Low	3 710.00	32.55	1.80
		Middle	3 840.00	32.19	1.65
		High	3 970.00	32.16	1.65
	256QAM	Low	3 710.00	32.51	1.78
		Middle	3 840.00	32.18	1.65
		High	3 970.00	32.06	1.61
36	QPSK	Low	3 710.00	31.89	1.55
		Middle	3 840.00	31.64	1.46
		High	3 970.00	31.63	1.46
	16QAM	Low	3 710.00	31.85	1.53
		Middle	3 840.00	31.61	1.45
		High	3 970.00	31.69	1.48
	64QAM	Low	3 710.00	31.89	1.54
		Middle	3 840.00	31.50	1.41
		High	3 970.00	31.55	1.43
	256QAM	Low	3 710.00	31.90	1.55
		Middle	3 840.00	31.54	1.43
		High	3 970.00	31.58	1.44
37	QPSK	Low	3 710.00	32.38	1.73
		Middle	3 840.00	32.03	1.60
		High	3 970.00	31.96	1.57
	16QAM	Low	3 710.00	32.40	1.74
		Middle	3 840.00	32.02	1.59
		High	3 970.00	31.90	1.55
	64QAM	Low	3 710.00	32.41	1.74
		Middle	3 840.00	31.99	1.58
		High	3 970.00	31.91	1.55
	256QAM	Low	3 710.00	32.50	1.78
		Middle	3 840.00	31.94	1.56
		High	3 970.00	31.87	1.54

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
38	QPSK	Low	3 710.00	32.10	1.62
		Middle	3 840.00	31.88	1.54
		High	3 970.00	31.61	1.45
	16QAM	Low	3 710.00	32.09	1.62
		Middle	3 840.00	31.93	1.56
		High	3 970.00	31.67	1.47
	64QAM	Low	3 710.00	32.14	1.64
		Middle	3 840.00	31.82	1.52
		High	3 970.00	31.62	1.45
256QAM	Low	3 710.00	32.21	1.66	
	Middle	3 840.00	31.85	1.53	
	High	3 970.00	31.70	1.48	
39	QPSK	Low	3 710.00	32.49	1.78
		Middle	3 840.00	32.13	1.63
		High	3 970.00	31.92	1.55
	16QAM	Low	3 710.00	32.45	1.76
		Middle	3 840.00	32.29	1.69
		High	3 970.00	31.93	1.56
	64QAM	Low	3 710.00	32.47	1.77
		Middle	3 840.00	32.22	1.67
		High	3 970.00	31.87	1.54
256QAM	Low	3 710.00	32.48	1.77	
	Middle	3 840.00	32.18	1.65	
	High	3 970.00	31.85	1.53	
40	QPSK	Low	3 710.00	31.85	1.53
		Middle	3 840.00	31.78	1.51
		High	3 970.00	31.55	1.43
	16QAM	Low	3 710.00	31.87	1.54
		Middle	3 840.00	31.78	1.51
		High	3 970.00	31.44	1.39
	64QAM	Low	3 710.00	31.86	1.54
		Middle	3 840.00	31.78	1.51
		High	3 970.00	31.41	1.38
256QAM	Low	3 710.00	31.90	1.55	
	Middle	3 840.00	31.70	1.48	
	High	3 970.00	31.45	1.40	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
41	QPSK	Low	3 710.00	31.31	1.35
		Middle	3 840.00	31.15	1.30
		High	3 970.00	30.98	1.25
	16QAM	Low	3 710.00	31.34	1.36
		Middle	3 840.00	31.12	1.29
		High	3 970.00	30.97	1.25
	64QAM	Low	3 710.00	31.36	1.37
		Middle	3 840.00	31.08	1.28
		High	3 970.00	31.59	1.44
	256QAM	Low	3 710.00	31.42	1.39
		Middle	3 840.00	31.01	1.26
		High	3 970.00	30.94	1.24
42	QPSK	Low	3 710.00	32.28	1.69
		Middle	3 840.00	32.21	1.66
		High	3 970.00	31.93	1.56
	16QAM	Low	3 710.00	32.32	1.71
		Middle	3 840.00	32.24	1.68
		High	3 970.00	31.97	1.58
	64QAM	Low	3 710.00	32.32	1.70
		Middle	3 840.00	32.20	1.66
		High	3 970.00	31.83	1.52
	256QAM	Low	3 710.00	32.35	1.72
		Middle	3 840.00	32.18	1.65
		High	3 970.00	31.95	1.57
43	QPSK	Low	3 710.00	32.46	1.76
		Middle	3 840.00	32.08	1.61
		High	3 970.00	32.11	1.62
	16QAM	Low	3 710.00	32.39	1.74
		Middle	3 840.00	32.10	1.62
		High	3 970.00	32.14	1.64
	64QAM	Low	3 710.00	32.44	1.75
		Middle	3 840.00	32.02	1.59
		High	3 970.00	31.97	1.57
	256QAM	Low	3 710.00	32.45	1.76
		Middle	3 840.00	31.99	1.58
		High	3 970.00	32.04	1.60



Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
44	QPSK	Low	3 710.00	32.24	1.67
		Middle	3 840.00	32.19	1.66
		High	3 970.00	32.00	1.58
	16QAM	Low	3 710.00	32.28	1.69
		Middle	3 840.00	32.18	1.65
		High	3 970.00	31.99	1.58
	64QAM	Low	3 710.00	32.35	1.72
		Middle	3 840.00	32.20	1.66
		High	3 970.00	31.85	1.53
	256QAM	Low	3 710.00	32.25	1.68
		Middle	3 840.00	32.31	1.70
		High	3 970.00	31.90	1.55
45	QPSK	Low	3 710.00	31.83	1.53
		Middle	3 840.00	31.58	1.44
		High	3 970.00	31.56	1.43
	16QAM	Low	3 710.00	31.83	1.52
		Middle	3 840.00	31.66	1.47
		High	3 970.00	31.46	1.40
	64QAM	Low	3 710.00	31.82	1.52
		Middle	3 840.00	31.57	1.43
		High	3 970.00	31.30	1.35
	256QAM	Low	3 710.00	31.91	1.55
		Middle	3 840.00	31.62	1.45
		High	3 970.00	31.47	1.40
46	QPSK	Low	3 710.00	32.15	1.64
		Middle	3 840.00	31.93	1.56
		High	3 970.00	32.15	1.64
	16QAM	Low	3 710.00	32.13	1.63
		Middle	3 840.00	32.00	1.58
		High	3 970.00	32.05	1.60
	64QAM	Low	3 710.00	32.18	1.65
		Middle	3 840.00	31.90	1.55
		High	3 970.00	31.84	1.53
	256QAM	Low	3 710.00	32.15	1.64
		Middle	3 840.00	31.96	1.57
		High	3 970.00	32.06	1.61

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
47	QPSK	Low	3 710.00	31.93	1.56
		Middle	3 840.00	31.72	1.49
		High	3 970.00	31.74	1.49
	16QAM	Low	3 710.00	31.87	1.54
		Middle	3 840.00	31.65	1.46
		High	3 970.00	31.72	1.49
	64QAM	Low	3 710.00	31.87	1.54
		Middle	3 840.00	31.58	1.44
		High	3 970.00	31.49	1.41
256QAM	Low	3 710.00	31.94	1.56	
	Middle	3 840.00	31.66	1.46	
	High	3 970.00	31.66	1.47	
48	QPSK	Low	3 710.00	32.22	1.67
		Middle	3 840.00	32.08	1.62
		High	3 970.00	32.06	1.61
	16QAM	Low	3 710.00	32.15	1.64
		Middle	3 840.00	32.08	1.61
		High	3 970.00	31.98	1.58
	64QAM	Low	3 710.00	32.30	1.70
		Middle	3 840.00	32.05	1.60
		High	3 970.00	31.89	1.54
256QAM	Low	3 710.00	32.22	1.67	
	Middle	3 840.00	32.05	1.60	
	High	3 970.00	31.96	1.57	
49	QPSK	Low	3 710.00	31.96	1.57
		Middle	3 840.00	31.59	1.44
		High	3 970.00	31.49	1.41
	16QAM	Low	3 710.00	31.86	1.53
		Middle	3 840.00	31.85	1.53
		High	3 970.00	31.48	1.41
	64QAM	Low	3 710.00	31.93	1.56
		Middle	3 840.00	31.58	1.44
		High	3 970.00	31.29	1.35
256QAM	Low	3 710.00	31.84	1.53	
	Middle	3 840.00	31.79	1.51	
	High	3 970.00	31.38	1.37	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
50	QPSK	Low	3 710.00	32.52	1.79
		Middle	3 840.00	32.36	1.72
		High	3 970.00	32.40	1.74
	16QAM	Low	3 710.00	32.52	1.79
		Middle	3 840.00	32.41	1.74
		High	3 970.00	32.29	1.70
	64QAM	Low	3 710.00	32.48	1.77
		Middle	3 840.00	32.34	1.71
		High	3 970.00	32.08	1.61
	256QAM	Low	3 710.00	32.51	1.78
		Middle	3 840.00	32.41	1.74
		High	3 970.00	32.20	1.66
51	QPSK	Low	3 710.00	32.82	1.91
		Middle	3 840.00	32.59	1.81
		High	3 970.00	32.72	1.87
	16QAM	Low	3 710.00	32.84	1.92
		Middle	3 840.00	32.60	1.82
		High	3 970.00	32.62	1.83
	64QAM	Low	3 710.00	32.83	1.92
		Middle	3 840.00	32.51	1.78
		High	3 970.00	32.46	1.76
	256QAM	Low	3 710.00	32.84	1.92
		Middle	3 840.00	32.64	1.83
		High	3 970.00	32.60	1.82
52	QPSK	Low	3 710.00	32.69	1.86
		Middle	3 840.00	32.36	1.72
		High	3 970.00	32.38	1.73
	16QAM	Low	3 710.00	32.64	1.84
		Middle	3 840.00	32.41	1.74
		High	3 970.00	32.18	1.65
	64QAM	Low	3 710.00	32.76	1.89
		Middle	3 840.00	32.42	1.74
		High	3 970.00	32.11	1.63
	256QAM	Low	3 710.00	32.65	1.84
		Middle	3 840.00	32.45	1.76
		High	3 970.00	32.26	1.68

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
53	QPSK	Low	3 710.00	32.34	1.71
		Middle	3 840.00	31.98	1.58
		High	3 970.00	32.07	1.61
	16QAM	Low	3 710.00	32.21	1.66
		Middle	3 840.00	31.99	1.58
		High	3 970.00	31.85	1.53
	64QAM	Low	3 710.00	32.34	1.72
		Middle	3 840.00	31.91	1.55
		High	3 970.00	31.94	1.56
	256QAM	Low	3 710.00	32.31	1.70
		Middle	3 840.00	32.02	1.59
		High	3 970.00	31.94	1.56
54	QPSK	Low	3 710.00	31.95	1.57
		Middle	3 840.00	31.81	1.52
		High	3 970.00	31.54	1.43
	16QAM	Low	3 710.00	31.83	1.52
		Middle	3 840.00	31.80	1.51
		High	3 970.00	31.34	1.36
	64QAM	Low	3 710.00	31.89	1.55
		Middle	3 840.00	31.72	1.49
		High	3 970.00	31.26	1.34
	256QAM	Low	3 710.00	31.85	1.53
		Middle	3 840.00	31.80	1.51
		High	3 970.00	31.39	1.38
55	QPSK	Low	3 710.00	32.14	1.64
		Middle	3 840.00	31.70	1.48
		High	3 970.00	31.63	1.46
	16QAM	Low	3 710.00	32.09	1.62
		Middle	3 840.00	31.63	1.45
		High	3 970.00	31.46	1.40
	64QAM	Low	3 710.00	32.18	1.65
		Middle	3 840.00	31.62	1.45
		High	3 970.00	31.29	1.34
	256QAM	Low	3 710.00	32.10	1.62
		Middle	3 840.00	31.78	1.51
		High	3 970.00	31.48	1.41

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
56	QPSK	Low	3 710.00	32.03	1.60
		Middle	3 840.00	31.85	1.53
		High	3 970.00	31.81	1.52
	16QAM	Low	3 710.00	32.00	1.58
		Middle	3 840.00	31.80	1.51
		High	3 970.00	31.60	1.44
	64QAM	Low	3 710.00	32.07	1.61
		Middle	3 840.00	31.75	1.49
		High	3 970.00	31.55	1.43
	256QAM	Low	3 710.00	32.00	1.58
		Middle	3 840.00	31.84	1.53
		High	3 970.00	31.68	1.47
57	QPSK	Low	3 710.00	32.27	1.69
		Middle	3 840.00	32.06	1.61
		High	3 970.00	32.04	1.60
	16QAM	Low	3 710.00	32.20	1.66
		Middle	3 840.00	32.22	1.67
		High	3 970.00	31.93	1.56
	64QAM	Low	3 710.00	32.28	1.69
		Middle	3 840.00	32.11	1.63
		High	3 970.00	31.90	1.55
	256QAM	Low	3 710.00	32.32	1.71
		Middle	3 840.00	32.26	1.68
		High	3 970.00	32.02	1.59
58	QPSK	Low	3 710.00	31.62	1.45
		Middle	3 840.00	31.37	1.37
		High	3 970.00	31.37	1.37
	16QAM	Low	3 710.00	31.51	1.42
		Middle	3 840.00	31.29	1.34
		High	3 970.00	31.15	1.30
	64QAM	Low	3 710.00	31.58	1.44
		Middle	3 840.00	31.24	1.33
		High	3 970.00	31.10	1.29
	256QAM	Low	3 710.00	31.50	1.41
		Middle	3 840.00	31.33	1.36
		High	3 970.00	31.12	1.30

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
59	QPSK	Low	3 710.00	31.70	1.48
		Middle	3 840.00	31.29	1.35
		High	3 970.00	31.29	1.34
	16QAM	Low	3 710.00	31.58	1.44
		Middle	3 840.00	31.27	1.34
		High	3 970.00	31.09	1.28
	64QAM	Low	3 710.00	31.69	1.48
		Middle	3 840.00	31.16	1.31
		High	3 970.00	31.06	1.28
256QAM	Low	3 710.00	31.65	1.46	
	Middle	3 840.00	31.35	1.36	
	High	3 970.00	31.14	1.30	
60	QPSK	Low	3 710.00	32.03	1.59
		Middle	3 840.00	31.87	1.54
		High	3 970.00	31.49	1.41
	16QAM	Low	3 710.00	31.92	1.55
		Middle	3 840.00	31.77	1.50
		High	3 970.00	31.35	1.36
	64QAM	Low	3 710.00	31.97	1.57
		Middle	3 840.00	31.73	1.49
		High	3 970.00	31.22	1.32
256QAM	Low	3 710.00	31.95	1.57	
	Middle	3 840.00	31.84	1.53	
	High	3 970.00	31.34	1.36	
61	QPSK	Low	3 710.00	31.75	1.50
		Middle	3 840.00	31.49	1.41
		High	3 970.00	31.36	1.37
	16QAM	Low	3 710.00	31.70	1.48
		Middle	3 840.00	31.41	1.38
		High	3 970.00	31.28	1.34
	64QAM	Low	3 710.00	31.72	1.48
		Middle	3 840.00	31.32	1.35
		High	3 970.00	31.17	1.31
256QAM	Low	3 710.00	31.76	1.50	
	Middle	3 840.00	31.47	1.40	
	High	3 970.00	31.22	1.32	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
62	QPSK	Low	3 710.00	31.34	1.36
		Middle	3 840.00	31.16	1.31
		High	3 970.00	31.10	1.29
	16QAM	Low	3 710.00	31.31	1.35
		Middle	3 840.00	31.20	1.32
		High	3 970.00	30.95	1.25
	64QAM	Low	3 710.00	31.40	1.38
		Middle	3 840.00	31.19	1.32
		High	3 970.00	31.90	1.55
	256QAM	Low	3 710.00	31.35	1.36
		Middle	3 840.00	31.35	1.36
		High	3 970.00	30.97	1.25
63	QPSK	Low	3 710.00	31.93	1.56
		Middle	3 840.00	31.64	1.46
		High	3 970.00	31.41	1.38
	16QAM	Low	3 710.00	31.84	1.53
		Middle	3 840.00	31.51	1.42
		High	3 970.00	31.30	1.35
	64QAM	Low	3 710.00	31.91	1.55
		Middle	3 840.00	31.54	1.43
		High	3 970.00	31.15	1.30
	256QAM	Low	3 710.00	31.85	1.53
		Middle	3 840.00	31.70	1.48
		High	3 970.00	31.36	1.37

**Sum Data of Port 0 ~ Port 63**

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
3 710.00	104.19	104.87	105.67	105.44
3 840.00	99.01	102.01	100.43	101.56
3 970.00	97.57	97.42	97.22	97.73

**(64 Port) 5G NR n77 40 MHz [1 Carrier]**

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	3 720.00	34.12	2.58
		Middle	3 840.00	34.17	2.61
		High	3 960.00	34.26	2.67
	16QAM	Low	3 720.00	34.22	2.64
		Middle	3 840.00	34.11	2.58
		High	3 960.00	34.16	2.61
	64QAM	Low	3 720.00	34.36	2.73
		Middle	3 840.00	34.12	2.58
		High	3 960.00	34.07	2.55
	256QAM	Low	3 720.00	34.40	2.75
		Middle	3 840.00	34.13	2.59
		High	3 960.00	34.25	2.66
1	QPSK	Low	3 720.00	34.95	3.13
		Middle	3 840.00	34.83	3.04
		High	3 960.00	34.68	2.94
	16QAM	Low	3 720.00	34.91	3.10
		Middle	3 840.00	34.82	3.04
		High	3 960.00	34.95	3.13
	64QAM	Low	3 720.00	34.89	3.08
		Middle	3 840.00	34.85	3.06
		High	3 960.00	34.86	3.06
	256QAM	Low	3 720.00	34.92	3.10
		Middle	3 840.00	34.77	3.00
		High	3 960.00	34.95	3.13



Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
2	QPSK	Low	3 720.00	34.01	2.52
		Middle	3 840.00	34.34	2.72
		High	3 960.00	33.86	2.43
	16QAM	Low	3 720.00	34.05	2.54
		Middle	3 840.00	34.35	2.72
		High	3 960.00	34.11	2.58
	64QAM	Low	3 720.00	33.97	2.50
		Middle	3 840.00	34.35	2.72
		High	3 960.00	34.05	2.54
	256QAM	Low	3 720.00	34.08	2.56
		Middle	3 840.00	34.34	2.72
		High	3 960.00	34.07	2.55
3	QPSK	Low	3 720.00	34.71	2.96
		Middle	3 840.00	34.86	3.06
		High	3 960.00	34.35	2.72
	16QAM	Low	3 720.00	34.69	2.94
		Middle	3 840.00	34.84	3.04
		High	3 960.00	34.58	2.87
	64QAM	Low	3 720.00	34.67	2.93
		Middle	3 840.00	34.73	2.97
		High	3 960.00	34.56	2.85
	256QAM	Low	3 720.00	34.79	3.01
		Middle	3 840.00	34.76	2.99
		High	3 960.00	34.54	2.85
4	QPSK	Low	3 720.00	34.19	2.62
		Middle	3 840.00	34.38	2.74
		High	3 960.00	34.05	2.54
	16QAM	Low	3 720.00	34.16	2.61
		Middle	3 840.00	34.38	2.74
		High	3 960.00	34.23	2.65
	64QAM	Low	3 720.00	34.16	2.60
		Middle	3 840.00	34.30	2.69
		High	3 960.00	34.22	2.64
	256QAM	Low	3 720.00	34.24	2.66
		Middle	3 840.00	34.33	2.71
		High	3 960.00	34.17	2.61

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
5	QPSK	Low	3 720.00	34.63	2.90
		Middle	3 840.00	34.65	2.92
		High	3 960.00	34.21	2.64
	16QAM	Low	3 720.00	34.70	2.95
		Middle	3 840.00	34.66	2.92
		High	3 960.00	34.45	2.79
	64QAM	Low	3 720.00	34.65	2.92
		Middle	3 840.00	34.56	2.86
		High	3 960.00	34.41	2.76
	256QAM	Low	3 720.00	34.74	2.98
		Middle	3 840.00	34.56	2.86
		High	3 960.00	34.37	2.74
6	QPSK	Low	3 720.00	34.37	2.74
		Middle	3 840.00	34.36	2.73
		High	3 960.00	33.87	2.44
	16QAM	Low	3 720.00	34.41	2.76
		Middle	3 840.00	34.35	2.72
		High	3 960.00	34.09	2.57
	64QAM	Low	3 720.00	34.41	2.76
		Middle	3 840.00	34.27	2.67
		High	3 960.00	34.05	2.54
	256QAM	Low	3 720.00	34.50	2.82
		Middle	3 840.00	34.32	2.70
		High	3 960.00	34.04	2.54
7	QPSK	Low	3 720.00	34.62	2.90
		Middle	3 840.00	34.53	2.84
		High	3 960.00	34.16	2.61
	16QAM	Low	3 720.00	34.52	2.83
		Middle	3 840.00	34.52	2.83
		High	3 960.00	34.36	2.73
	64QAM	Low	3 720.00	34.60	2.89
		Middle	3 840.00	34.41	2.76
		High	3 960.00	34.31	2.70
	256QAM	Low	3 720.00	34.71	2.96
		Middle	3 840.00	34.48	2.80
		High	3 960.00	34.27	2.67

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
8	QPSK	Low	3 720.00	33.72	2.36
		Middle	3 840.00	33.99	2.51
		High	3 960.00	33.48	2.23
	16QAM	Low	3 720.00	33.68	2.33
		Middle	3 840.00	33.85	2.43
		High	3 960.00	33.51	2.24
	64QAM	Low	3 720.00	33.68	2.33
		Middle	3 840.00	33.81	2.41
		High	3 960.00	33.49	2.24
	256QAM	Low	3 720.00	33.78	2.39
		Middle	3 840.00	33.88	2.44
		High	3 960.00	33.49	2.24
9	QPSK	Low	3 720.00	33.39	2.18
		Middle	3 840.00	33.55	2.27
		High	3 960.00	33.14	2.06
	16QAM	Low	3 720.00	33.36	2.17
		Middle	3 840.00	33.47	2.23
		High	3 960.00	33.14	2.06
	64QAM	Low	3 720.00	33.42	2.20
		Middle	3 840.00	33.39	2.18
		High	3 960.00	33.08	2.03
	256QAM	Low	3 720.00	33.54	2.26
		Middle	3 840.00	33.45	2.21
		High	3 960.00	33.18	2.08
10	QPSK	Low	3 720.00	34.26	2.67
		Middle	3 840.00	34.32	2.70
		High	3 960.00	33.95	2.48
	16QAM	Low	3 720.00	34.29	2.69
		Middle	3 840.00	34.17	2.61
		High	3 960.00	33.91	2.46
	64QAM	Low	3 720.00	34.29	2.68
		Middle	3 840.00	34.14	2.59
		High	3 960.00	33.92	2.46
	256QAM	Low	3 720.00	34.39	2.75
		Middle	3 840.00	34.23	2.65
		High	3 960.00	33.93	2.47

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
11	QPSK	Low	3 720.00	34.67	2.93
		Middle	3 840.00	34.55	2.85
		High	3 960.00	34.53	2.84
	16QAM	Low	3 720.00	34.69	2.95
		Middle	3 840.00	34.45	2.78
		High	3 960.00	34.61	2.89
	64QAM	Low	3 720.00	34.74	2.98
		Middle	3 840.00	34.42	2.77
		High	3 960.00	34.49	2.81
	256QAM	Low	3 720.00	34.76	2.99
		Middle	3 840.00	34.42	2.77
		High	3 960.00	34.58	2.87
12	QPSK	Low	3 720.00	34.37	2.74
		Middle	3 840.00	34.38	2.74
		High	3 960.00	34.13	2.59
	16QAM	Low	3 720.00	34.38	2.74
		Middle	3 840.00	34.27	2.68
		High	3 960.00	34.22	2.64
	64QAM	Low	3 720.00	34.44	2.78
		Middle	3 840.00	34.24	2.65
		High	3 960.00	34.09	2.56
	256QAM	Low	3 720.00	34.48	2.80
		Middle	3 840.00	34.33	2.71
		High	3 960.00	34.12	2.58
13	QPSK	Low	3 720.00	34.00	2.51
		Middle	3 840.00	34.04	2.53
		High	3 960.00	33.68	2.34
	16QAM	Low	3 720.00	33.93	2.47
		Middle	3 840.00	33.95	2.49
		High	3 960.00	33.83	2.41
	64QAM	Low	3 720.00	34.02	2.52
		Middle	3 840.00	33.86	2.43
		High	3 960.00	33.72	2.35
	256QAM	Low	3 720.00	34.07	2.55
		Middle	3 840.00	33.98	2.50
		High	3 960.00	33.74	2.37

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
14	QPSK	Low	3 720.00	34.22	2.64
		Middle	3 840.00	34.56	2.86
		High	3 960.00	34.08	2.56
	16QAM	Low	3 720.00	34.22	2.64
		Middle	3 840.00	34.50	2.82
		High	3 960.00	34.13	2.59
	64QAM	Low	3 720.00	34.22	2.64
		Middle	3 840.00	34.35	2.72
		High	3 960.00	34.10	2.57
	256QAM	Low	3 720.00	34.31	2.70
		Middle	3 840.00	34.49	2.81
		High	3 960.00	34.12	2.58
15	QPSK	Low	3 720.00	33.98	2.50
		Middle	3 840.00	34.21	2.63
		High	3 960.00	33.81	2.41
	16QAM	Low	3 720.00	33.93	2.47
		Middle	3 840.00	34.13	2.59
		High	3 960.00	33.85	2.43
	64QAM	Low	3 720.00	34.04	2.53
		Middle	3 840.00	34.06	2.55
		High	3 960.00	33.79	2.39
	256QAM	Low	3 720.00	34.12	2.58
		Middle	3 840.00	34.17	2.61
		High	3 960.00	33.77	2.38
16	QPSK	Low	3 720.00	34.66	2.92
		Middle	3 840.00	34.79	3.01
		High	3 960.00	34.61	2.89
	16QAM	Low	3 720.00	34.52	2.83
		Middle	3 840.00	34.71	2.96
		High	3 960.00	34.61	2.89
	64QAM	Low	3 720.00	34.64	2.91
		Middle	3 840.00	34.68	2.94
		High	3 960.00	34.59	2.88
	256QAM	Low	3 720.00	34.72	2.96
		Middle	3 840.00	34.76	2.99
		High	3 960.00	34.69	2.95

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
17	QPSK	Low	3 720.00	34.22	2.64
		Middle	3 840.00	34.19	2.62
		High	3 960.00	33.93	2.47
	16QAM	Low	3 720.00	34.13	2.59
		Middle	3 840.00	34.05	2.54
		High	3 960.00	33.93	2.47
	64QAM	Low	3 720.00	34.25	2.66
		Middle	3 840.00	34.07	2.55
		High	3 960.00	33.94	2.48
	256QAM	Low	3 720.00	34.26	2.67
		Middle	3 840.00	34.07	2.56
		High	3 960.00	33.92	2.47
18	QPSK	Low	3 720.00	34.75	2.98
		Middle	3 840.00	34.92	3.10
		High	3 960.00	34.56	2.86
	16QAM	Low	3 720.00	34.63	2.91
		Middle	3 840.00	34.84	3.05
		High	3 960.00	34.57	2.86
	64QAM	Low	3 720.00	34.73	2.97
		Middle	3 840.00	34.76	2.99
		High	3 960.00	34.57	2.86
	256QAM	Low	3 720.00	34.81	3.03
		Middle	3 840.00	34.89	3.08
		High	3 960.00	34.62	2.90
19	QPSK	Low	3 720.00	34.94	3.12
		Middle	3 840.00	34.94	3.12
		High	3 960.00	34.94	3.12
	16QAM	Low	3 720.00	34.96	3.14
		Middle	3 840.00	34.83	3.04
		High	3 960.00	34.93	3.11
	64QAM	Low	3 720.00	34.92	3.10
		Middle	3 840.00	34.78	3.00
		High	3 960.00	34.87	3.07
	256QAM	Low	3 720.00	34.97	3.14
		Middle	3 840.00	34.91	3.10
		High	3 960.00	34.96	3.13

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
20	QPSK	Low	3 720.00	34.61	2.89
		Middle	3 840.00	34.75	2.98
		High	3 960.00	34.47	2.80
	16QAM	Low	3 720.00	34.69	2.94
		Middle	3 840.00	34.65	2.92
		High	3 960.00	34.51	2.82
	64QAM	Low	3 720.00	34.64	2.91
		Middle	3 840.00	34.60	2.88
		High	3 960.00	34.43	2.77
	256QAM	Low	3 720.00	34.67	2.93
		Middle	3 840.00	34.62	2.89
		High	3 960.00	34.51	2.82
21	QPSK	Low	3 720.00	34.63	2.90
		Middle	3 840.00	34.71	2.96
		High	3 960.00	34.67	2.93
	16QAM	Low	3 720.00	34.65	2.91
		Middle	3 840.00	34.63	2.91
		High	3 960.00	34.47	2.80
	64QAM	Low	3 720.00	34.61	2.89
		Middle	3 840.00	34.60	2.88
		High	3 960.00	34.60	2.88
	256QAM	Low	3 720.00	34.64	2.91
		Middle	3 840.00	34.65	2.92
		High	3 960.00	34.71	2.96
22	QPSK	Low	3 720.00	34.04	2.54
		Middle	3 840.00	34.25	2.66
		High	3 960.00	33.92	2.47
	16QAM	Low	3 720.00	34.12	2.58
		Middle	3 840.00	34.20	2.63
		High	3 960.00	33.67	2.33
	64QAM	Low	3 720.00	34.07	2.55
		Middle	3 840.00	34.19	2.62
		High	3 960.00	33.80	2.40
	256QAM	Low	3 720.00	34.12	2.58
		Middle	3 840.00	34.28	2.68
		High	3 960.00	33.93	2.47

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
23	QPSK	Low	3 720.00	34.50	2.82
		Middle	3 840.00	34.56	2.86
		High	3 960.00	34.47	2.80
	16QAM	Low	3 720.00	34.50	2.82
		Middle	3 840.00	34.51	2.82
		High	3 960.00	34.19	2.62
	64QAM	Low	3 720.00	34.49	2.81
		Middle	3 840.00	34.46	2.79
		High	3 960.00	34.31	2.70
	256QAM	Low	3 720.00	34.60	2.89
		Middle	3 840.00	34.49	2.81
		High	3 960.00	34.28	2.68
24	QPSK	Low	3 720.00	33.98	2.50
		Middle	3 840.00	34.10	2.57
		High	3 960.00	33.88	2.44
	16QAM	Low	3 720.00	33.95	2.48
		Middle	3 840.00	33.97	2.49
		High	3 960.00	33.59	2.29
	64QAM	Low	3 720.00	33.96	2.49
		Middle	3 840.00	33.95	2.48
		High	3 960.00	33.73	2.36
	256QAM	Low	3 720.00	34.04	2.54
		Middle	3 840.00	34.09	2.56
		High	3 960.00	33.69	2.34
25	QPSK	Low	3 720.00	34.48	2.80
		Middle	3 840.00	34.32	2.70
		High	3 960.00	34.51	2.82
	16QAM	Low	3 720.00	34.50	2.82
		Middle	3 840.00	34.25	2.66
		High	3 960.00	34.20	2.63
	64QAM	Low	3 720.00	34.47	2.80
		Middle	3 840.00	34.24	2.66
		High	3 960.00	34.37	2.74
	256QAM	Low	3 720.00	34.64	2.91
		Middle	3 840.00	34.34	2.71
		High	3 960.00	34.34	2.72



Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
26	QPSK	Low	3 720.00	33.69	2.34
		Middle	3 840.00	33.59	2.28
		High	3 960.00	33.33	2.15
	16QAM	Low	3 720.00	33.75	2.37
		Middle	3 840.00	33.44	2.21
		High	3 960.00	33.05	2.02
	64QAM	Low	3 720.00	33.70	2.34
		Middle	3 840.00	33.41	2.19
		High	3 960.00	33.23	2.10
256QAM	Low	3 720.00	33.77	2.38	
	Middle	3 840.00	33.54	2.26	
	High	3 960.00	33.18	2.08	
27	QPSK	Low	3 720.00	33.63	2.31
		Middle	3 840.00	33.38	2.18
		High	3 960.00	33.29	2.13
	16QAM	Low	3 720.00	33.63	2.31
		Middle	3 840.00	33.29	2.13
		High	3 960.00	33.02	2.01
	64QAM	Low	3 720.00	33.60	2.29
		Middle	3 840.00	33.30	2.14
		High	3 960.00	33.15	2.06
256QAM	Low	3 720.00	33.75	2.37	
	Middle	3 840.00	33.37	2.17	
	High	3 960.00	33.11	2.05	
28	QPSK	Low	3 720.00	34.32	2.70
		Middle	3 840.00	34.04	2.54
		High	3 960.00	33.78	2.39
	16QAM	Low	3 720.00	34.35	2.72
		Middle	3 840.00	33.93	2.47
		High	3 960.00	33.56	2.27
	64QAM	Low	3 720.00	34.34	2.71
		Middle	3 840.00	33.97	2.49
		High	3 960.00	33.67	2.33
256QAM	Low	3 720.00	34.45	2.78	
	Middle	3 840.00	33.99	2.50	
	High	3 960.00	33.62	2.30	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
29	QPSK	Low	3 720.00	33.84	2.42
		Middle	3 840.00	33.57	2.28
		High	3 960.00	33.40	2.19
	16QAM	Low	3 720.00	33.87	2.44
		Middle	3 840.00	33.47	2.22
		High	3 960.00	33.34	2.16
	64QAM	Low	3 720.00	33.82	2.41
		Middle	3 840.00	33.40	2.19
		High	3 960.00	33.27	2.12
	256QAM	Low	3 720.00	33.95	2.48
		Middle	3 840.00	33.48	2.23
		High	3 960.00	33.23	2.11
30	QPSK	Low	3 720.00	33.64	2.31
		Middle	3 840.00	33.43	2.20
		High	3 960.00	33.15	2.06
	16QAM	Low	3 720.00	33.67	2.33
		Middle	3 840.00	33.32	2.15
		High	3 960.00	33.11	2.05
	64QAM	Low	3 720.00	33.56	2.27
		Middle	3 840.00	33.34	2.16
		High	3 960.00	33.03	2.01
	256QAM	Low	3 720.00	33.68	2.33
		Middle	3 840.00	33.42	2.20
		High	3 960.00	32.98	1.99
31	QPSK	Low	3 720.00	33.75	2.37
		Middle	3 840.00	34.11	2.58
		High	3 960.00	33.49	2.24
	16QAM	Low	3 720.00	33.75	2.37
		Middle	3 840.00	33.96	2.49
		High	3 960.00	33.34	2.16
	64QAM	Low	3 720.00	33.74	2.37
		Middle	3 840.00	33.96	2.49
		High	3 960.00	33.37	2.17
	256QAM	Low	3 720.00	33.89	2.45
		Middle	3 840.00	34.01	2.52
		High	3 960.00	33.31	2.14

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
32	QPSK	Low	3 720.00	33.96	2.49
		Middle	3 840.00	33.80	2.40
		High	3 960.00	33.66	2.32
	16QAM	Low	3 720.00	34.07	2.55
		Middle	3 840.00	33.86	2.43
		High	3 960.00	33.79	2.39
	64QAM	Low	3 720.00	34.09	2.56
		Middle	3 840.00	33.81	2.41
		High	3 960.00	33.73	2.36
	256QAM	Low	3 720.00	34.12	2.58
		Middle	3 840.00	33.83	2.42
		High	3 960.00	33.88	2.44
33	QPSK	Low	3 720.00	34.78	3.01
		Middle	3 840.00	34.37	2.73
		High	3 960.00	34.47	2.80
	16QAM	Low	3 720.00	34.89	3.08
		Middle	3 840.00	34.39	2.75
		High	3 960.00	34.41	2.76
	64QAM	Low	3 720.00	34.80	3.02
		Middle	3 840.00	34.50	2.82
		High	3 960.00	34.44	2.78
	256QAM	Low	3 720.00	34.91	3.10
		Middle	3 840.00	34.49	2.81
		High	3 960.00	34.50	2.82
34	QPSK	Low	3 720.00	34.13	2.59
		Middle	3 840.00	33.91	2.46
		High	3 960.00	33.76	2.38
	16QAM	Low	3 720.00	34.13	2.59
		Middle	3 840.00	33.90	2.46
		High	3 960.00	33.78	2.39
	64QAM	Low	3 720.00	34.11	2.58
		Middle	3 840.00	33.93	2.47
		High	3 960.00	33.80	2.40
	256QAM	Low	3 720.00	34.15	2.60
		Middle	3 840.00	34.00	2.51
		High	3 960.00	33.86	2.44

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
35	QPSK	Low	3 720.00	34.52	2.83
		Middle	3 840.00	34.36	2.73
		High	3 960.00	34.16	2.61
	16QAM	Low	3 720.00	34.49	2.81
		Middle	3 840.00	34.45	2.79
		High	3 960.00	34.20	2.63
	64QAM	Low	3 720.00	34.53	2.84
		Middle	3 840.00	34.44	2.78
		High	3 960.00	34.24	2.66
	256QAM	Low	3 720.00	34.55	2.85
		Middle	3 840.00	34.42	2.76
		High	3 960.00	34.24	2.66
36	QPSK	Low	3 720.00	33.89	2.45
		Middle	3 840.00	33.78	2.39
		High	3 960.00	33.67	2.33
	16QAM	Low	3 720.00	33.83	2.41
		Middle	3 840.00	33.83	2.41
		High	3 960.00	33.68	2.34
	64QAM	Low	3 720.00	33.87	2.44
		Middle	3 840.00	33.79	2.39
		High	3 960.00	33.72	2.35
	256QAM	Low	3 720.00	33.95	2.48
		Middle	3 840.00	33.81	2.40
		High	3 960.00	33.75	2.37
37	QPSK	Low	3 720.00	34.50	2.82
		Middle	3 840.00	34.24	2.66
		High	3 960.00	34.05	2.54
	16QAM	Low	3 720.00	34.47	2.80
		Middle	3 840.00	34.24	2.65
		High	3 960.00	34.06	2.54
	64QAM	Low	3 720.00	34.48	2.81
		Middle	3 840.00	34.22	2.64
		High	3 960.00	34.08	2.56
	256QAM	Low	3 720.00	34.50	2.82
		Middle	3 840.00	34.24	2.66
		High	3 960.00	34.10	2.57

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
38	QPSK	Low	3 720.00	34.22	2.64
		Middle	3 840.00	33.98	2.50
		High	3 960.00	33.68	2.33
	16QAM	Low	3 720.00	34.12	2.58
		Middle	3 840.00	34.03	2.53
		High	3 960.00	33.65	2.32
	64QAM	Low	3 720.00	34.21	2.64
		Middle	3 840.00	34.00	2.51
		High	3 960.00	33.69	2.34
	256QAM	Low	3 720.00	34.23	2.65
		Middle	3 840.00	34.02	2.52
		High	3 960.00	33.74	2.36
39	QPSK	Low	3 720.00	34.52	2.83
		Middle	3 840.00	34.34	2.72
		High	3 960.00	33.99	2.51
	16QAM	Low	3 720.00	34.48	2.80
		Middle	3 840.00	34.38	2.74
		High	3 960.00	33.96	2.49
	64QAM	Low	3 720.00	34.49	2.81
		Middle	3 840.00	34.37	2.74
		High	3 960.00	33.98	2.50
	256QAM	Low	3 720.00	34.52	2.83
		Middle	3 840.00	34.41	2.76
		High	3 960.00	33.99	2.51
40	QPSK	Low	3 720.00	33.84	2.42
		Middle	3 840.00	33.79	2.39
		High	3 960.00	33.52	2.25
	16QAM	Low	3 720.00	33.84	2.42
		Middle	3 840.00	33.82	2.41
		High	3 960.00	33.46	2.22
	64QAM	Low	3 720.00	33.81	2.40
		Middle	3 840.00	33.83	2.41
		High	3 960.00	33.46	2.22
	256QAM	Low	3 720.00	33.85	2.42
		Middle	3 840.00	33.88	2.44
		High	3 960.00	33.50	2.24

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
41	QPSK	Low	3 720.00	33.33	2.15
		Middle	3 840.00	33.19	2.08
		High	3 960.00	33.71	2.35
	16QAM	Low	3 720.00	33.29	2.13
		Middle	3 840.00	33.13	2.05
		High	3 960.00	33.66	2.32
	64QAM	Low	3 720.00	33.30	2.14
		Middle	3 840.00	33.16	2.07
		High	3 960.00	33.65	2.32
	256QAM	Low	3 720.00	33.34	2.16
		Middle	3 840.00	33.16	2.07
		High	3 960.00	33.66	2.32
42	QPSK	Low	3 720.00	34.30	2.69
		Middle	3 840.00	34.15	2.60
		High	3 960.00	33.89	2.45
	16QAM	Low	3 720.00	34.31	2.70
		Middle	3 840.00	34.21	2.64
		High	3 960.00	33.90	2.45
	64QAM	Low	3 720.00	34.29	2.68
		Middle	3 840.00	34.19	2.62
		High	3 960.00	33.88	2.44
	256QAM	Low	3 720.00	34.38	2.74
		Middle	3 840.00	34.24	2.65
		High	3 960.00	33.93	2.47
43	QPSK	Low	3 720.00	34.45	2.78
		Middle	3 840.00	34.17	2.61
		High	3 960.00	34.04	2.54
	16QAM	Low	3 720.00	34.37	2.73
		Middle	3 840.00	34.15	2.60
		High	3 960.00	34.02	2.53
	64QAM	Low	3 720.00	34.45	2.78
		Middle	3 840.00	34.13	2.59
		High	3 960.00	34.08	2.56
	256QAM	Low	3 720.00	34.44	2.78
		Middle	3 840.00	34.11	2.57
		High	3 960.00	34.12	2.58

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
44	QPSK	Low	3 720.00	34.19	2.62
		Middle	3 840.00	34.25	2.66
		High	3 960.00	33.95	2.48
	16QAM	Low	3 720.00	34.17	2.61
		Middle	3 840.00	34.25	2.66
		High	3 960.00	33.89	2.45
	64QAM	Low	3 720.00	34.21	2.63
		Middle	3 840.00	34.24	2.66
		High	3 960.00	33.92	2.47
256QAM	Low	3 720.00	34.22	2.64	
	Middle	3 840.00	34.33	2.71	
	High	3 960.00	33.97	2.50	
45	QPSK	Low	3 720.00	33.86	2.43
		Middle	3 840.00	33.70	2.34
		High	3 960.00	33.51	2.24
	16QAM	Low	3 720.00	33.88	2.44
		Middle	3 840.00	33.61	2.29
		High	3 960.00	33.41	2.19
	64QAM	Low	3 720.00	33.83	2.41
		Middle	3 840.00	33.70	2.35
		High	3 960.00	33.45	2.21
256QAM	Low	3 720.00	33.93	2.47	
	Middle	3 840.00	33.67	2.33	
	High	3 960.00	33.52	2.25	
46	QPSK	Low	3 720.00	34.15	2.60
		Middle	3 840.00	34.10	2.57
		High	3 960.00	33.96	2.49
	16QAM	Low	3 720.00	34.18	2.62
		Middle	3 840.00	34.05	2.54
		High	3 960.00	33.89	2.45
	64QAM	Low	3 720.00	34.14	2.59
		Middle	3 840.00	34.08	2.56
		High	3 960.00	33.90	2.46
256QAM	Low	3 720.00	34.19	2.63	
	Middle	3 840.00	34.10	2.57	
	High	3 960.00	33.96	2.49	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
47	QPSK	Low	3 720.00	33.93	2.47
		Middle	3 840.00	33.71	2.35
		High	3 960.00	33.59	2.29
	16QAM	Low	3 720.00	33.88	2.44
		Middle	3 840.00	33.62	2.30
		High	3 960.00	33.61	2.30
	64QAM	Low	3 720.00	33.91	2.46
		Middle	3 840.00	33.70	2.34
		High	3 960.00	33.58	2.28
	256QAM	Low	3 720.00	33.86	2.43
		Middle	3 840.00	33.72	2.36
		High	3 960.00	33.65	2.32
48	QPSK	Low	3 720.00	34.34	2.71
		Middle	3 840.00	34.27	2.67
		High	3 960.00	34.12	2.59
	16QAM	Low	3 720.00	34.27	2.67
		Middle	3 840.00	34.22	2.64
		High	3 960.00	34.04	2.54
	64QAM	Low	3 720.00	34.30	2.69
		Middle	3 840.00	34.22	2.64
		High	3 960.00	34.06	2.55
	256QAM	Low	3 720.00	34.33	2.71
		Middle	3 840.00	34.34	2.72
		High	3 960.00	34.10	2.57
49	QPSK	Low	3 720.00	34.02	2.52
		Middle	3 840.00	33.74	2.37
		High	3 960.00	33.47	2.23
	16QAM	Low	3 720.00	34.01	2.52
		Middle	3 840.00	33.76	2.38
		High	3 960.00	33.45	2.21
	64QAM	Low	3 720.00	34.00	2.51
		Middle	3 840.00	33.73	2.36
		High	3 960.00	33.47	2.22
	256QAM	Low	3 720.00	34.03	2.53
		Middle	3 840.00	33.80	2.40
		High	3 960.00	33.54	2.26



Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
50	QPSK	Low	3 720.00	34.61	2.89
		Middle	3 840.00	34.60	2.88
		High	3 960.00	34.44	2.78
	16QAM	Low	3 720.00	34.57	2.87
		Middle	3 840.00	34.53	2.84
		High	3 960.00	34.37	2.73
	64QAM	Low	3 720.00	34.60	2.89
		Middle	3 840.00	34.54	2.84
		High	3 960.00	34.35	2.72
	256QAM	Low	3 720.00	34.60	2.88
		Middle	3 840.00	34.56	2.86
		High	3 960.00	34.39	2.75
51	QPSK	Low	3 720.00	34.91	3.10
		Middle	3 840.00	34.73	2.97
		High	3 960.00	34.70	2.95
	16QAM	Low	3 720.00	34.85	3.05
		Middle	3 840.00	34.78	3.00
		High	3 960.00	34.65	2.92
	64QAM	Low	3 720.00	34.89	3.08
		Middle	3 840.00	34.68	2.93
		High	3 960.00	34.68	2.94
	256QAM	Low	3 720.00	34.89	3.08
		Middle	3 840.00	34.74	2.98
		High	3 960.00	34.72	2.97
52	QPSK	Low	3 720.00	34.80	3.02
		Middle	3 840.00	34.57	2.86
		High	3 960.00	34.41	2.76
	16QAM	Low	3 720.00	34.72	2.96
		Middle	3 840.00	34.57	2.86
		High	3 960.00	34.37	2.73
	64QAM	Low	3 720.00	34.72	2.97
		Middle	3 840.00	34.52	2.83
		High	3 960.00	34.37	2.74
	256QAM	Low	3 720.00	34.77	3.00
		Middle	3 840.00	34.61	2.89
		High	3 960.00	34.44	2.78

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
53	QPSK	Low	3 720.00	34.35	2.72
		Middle	3 840.00	34.13	2.59
		High	3 960.00	34.08	2.56
	16QAM	Low	3 720.00	34.31	2.70
		Middle	3 840.00	34.15	2.60
		High	3 960.00	34.00	2.51
	64QAM	Low	3 720.00	34.35	2.72
		Middle	3 840.00	34.15	2.60
		High	3 960.00	34.11	2.58
	256QAM	Low	3 720.00	34.38	2.74
		Middle	3 840.00	34.15	2.60
		High	3 960.00	34.06	2.55
54	QPSK	Low	3 720.00	33.98	2.50
		Middle	3 840.00	33.93	2.47
		High	3 960.00	33.54	2.26
	16QAM	Low	3 720.00	33.98	2.50
		Middle	3 840.00	33.92	2.47
		High	3 960.00	33.46	2.22
	64QAM	Low	3 720.00	33.99	2.50
		Middle	3 840.00	33.92	2.46
		High	3 960.00	33.53	2.25
	256QAM	Low	3 720.00	34.02	2.53
		Middle	3 840.00	34.00	2.51
		High	3 960.00	33.55	2.27
55	QPSK	Low	3 720.00	34.15	2.60
		Middle	3 840.00	33.91	2.46
		High	3 960.00	33.79	2.39
	16QAM	Low	3 720.00	34.21	2.63
		Middle	3 840.00	33.89	2.45
		High	3 960.00	33.68	2.33
	64QAM	Low	3 720.00	34.20	2.63
		Middle	3 840.00	33.85	2.43
		High	3 960.00	33.74	2.36
	256QAM	Low	3 720.00	34.21	2.64
		Middle	3 840.00	33.93	2.47
		High	3 960.00	33.74	2.37

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
56	QPSK	Low	3 720.00	34.09	2.56
		Middle	3 840.00	33.91	2.46
		High	3 960.00	33.67	2.33
	16QAM	Low	3 720.00	34.02	2.52
		Middle	3 840.00	33.91	2.46
		High	3 960.00	33.56	2.27
	64QAM	Low	3 720.00	34.02	2.52
		Middle	3 840.00	33.86	2.43
		High	3 960.00	33.65	2.32
256QAM	Low	3 720.00	34.05	2.54	
	Middle	3 840.00	33.90	2.46	
	High	3 960.00	33.61	2.30	
57	QPSK	Low	3 720.00	34.28	2.68
		Middle	3 840.00	34.07	2.56
		High	3 960.00	34.00	2.51
	16QAM	Low	3 720.00	34.15	2.60
		Middle	3 840.00	34.04	2.53
		High	3 960.00	33.93	2.47
	64QAM	Low	3 720.00	34.19	2.62
		Middle	3 840.00	34.08	2.56
		High	3 960.00	33.95	2.48
256QAM	Low	3 720.00	34.26	2.67	
	Middle	3 840.00	34.14	2.60	
	High	3 960.00	33.99	2.51	
58	QPSK	Low	3 720.00	33.58	2.28
		Middle	3 840.00	33.34	2.16
		High	3 960.00	33.18	2.08
	16QAM	Low	3 720.00	33.48	2.23
		Middle	3 840.00	33.31	2.14
		High	3 960.00	33.11	2.05
	64QAM	Low	3 720.00	33.47	2.22
		Middle	3 840.00	33.27	2.12
		High	3 960.00	33.09	2.04
256QAM	Low	3 720.00	33.54	2.26	
	Middle	3 840.00	33.40	2.19	
	High	3 960.00	33.19	2.08	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
59	QPSK	Low	3 720.00	33.66	2.32
		Middle	3 840.00	33.36	2.17
		High	3 960.00	33.14	2.06
	16QAM	Low	3 720.00	33.58	2.28
		Middle	3 840.00	33.22	2.10
		High	3 960.00	33.07	2.03
	64QAM	Low	3 720.00	33.57	2.28
		Middle	3 840.00	33.23	2.11
		High	3 960.00	33.11	2.05
	256QAM	Low	3 720.00	33.62	2.30
		Middle	3 840.00	33.31	2.14
		High	3 960.00	33.14	2.06
60	QPSK	Low	3 720.00	34.02	2.52
		Middle	3 840.00	33.97	2.49
		High	3 960.00	33.45	2.21
	16QAM	Low	3 720.00	33.96	2.49
		Middle	3 840.00	33.85	2.43
		High	3 960.00	33.43	2.20
	64QAM	Low	3 720.00	33.97	2.50
		Middle	3 840.00	33.84	2.42
		High	3 960.00	33.42	2.20
	256QAM	Low	3 720.00	34.06	2.54
		Middle	3 840.00	33.89	2.45
		High	3 960.00	33.45	2.21
61	QPSK	Low	3 720.00	33.74	2.37
		Middle	3 840.00	33.52	2.25
		High	3 960.00	33.26	2.12
	16QAM	Low	3 720.00	33.71	2.35
		Middle	3 840.00	33.48	2.23
		High	3 960.00	33.17	2.08
	64QAM	Low	3 720.00	33.74	2.37
		Middle	3 840.00	33.48	2.23
		High	3 960.00	33.23	2.10
	256QAM	Low	3 720.00	33.83	2.41
		Middle	3 840.00	33.52	2.25
		High	3 960.00	33.34	2.16

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
62	QPSK	Low	3 720.00	33.44	2.21
		Middle	3 840.00	33.29	2.13
		High	3 960.00	33.03	2.01
	16QAM	Low	3 720.00	33.36	2.17
		Middle	3 840.00	33.31	2.14
		High	3 960.00	32.98	1.99
	64QAM	Low	3 720.00	33.35	2.16
		Middle	3 840.00	33.26	2.12
		High	3 960.00	32.99	1.99
	256QAM	Low	3 720.00	33.45	2.21
		Middle	3 840.00	33.26	2.12
		High	3 960.00	33.03	2.01
63	QPSK	Low	3 720.00	33.85	2.42
		Middle	3 840.00	33.70	2.34
		High	3 960.00	33.32	2.15
	16QAM	Low	3 720.00	33.77	2.38
		Middle	3 840.00	33.60	2.29
		High	3 960.00	33.25	2.11
	64QAM	Low	3 720.00	33.83	2.41
		Middle	3 840.00	33.61	2.30
		High	3 960.00	33.38	2.18
	256QAM	Low	3 720.00	33.86	2.43
		Middle	3 840.00	33.68	2.33
		High	3 960.00	33.37	2.17

**Sum Data of Port 0 ~ Port 63**

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
3 720.00	168.70	168.06	168.45	170.88
3 840.00	166.41	164.72	163.85	165.79
3 960.00	158.11	157.27	157.63	158.75

## (64 Port) 5G NR n77 80 MHz [1 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	3 740.00	34.85	3.06
		Middle	3 840.00	35.03	3.18
		High	3 940.00	34.98	3.14
	16QAM	Low	3 740.00	35.17	3.29
		Middle	3 840.00	35.14	3.27
		High	3 940.00	35.02	3.18
	64QAM	Low	3 740.00	35.11	3.24
		Middle	3 840.00	35.10	3.23
		High	3 940.00	35.07	3.22
	256QAM	Low	3 740.00	35.18	3.30
		Middle	3 840.00	35.08	3.22
		High	3 940.00	35.12	3.25
1	QPSK	Low	3 740.00	35.71	3.72
		Middle	3 840.00	35.74	3.75
		High	3 940.00	35.70	3.71
	16QAM	Low	3 740.00	35.82	3.82
		Middle	3 840.00	35.80	3.80
		High	3 940.00	35.71	3.73
	64QAM	Low	3 740.00	35.91	3.90
		Middle	3 840.00	35.88	3.87
		High	3 940.00	35.72	3.73
	256QAM	Low	3 740.00	35.95	3.93
		Middle	3 840.00	35.78	3.78
		High	3 940.00	35.84	3.84

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
2	QPSK	Low	3 740.00	34.90	3.09
		Middle	3 840.00	35.19	3.30
		High	3 940.00	34.92	3.11
	16QAM	Low	3 740.00	35.00	3.16
		Middle	3 840.00	35.36	3.43
		High	3 940.00	34.92	3.10
	64QAM	Low	3 740.00	35.10	3.23
		Middle	3 840.00	35.31	3.39
		High	3 940.00	34.99	3.15
	256QAM	Low	3 740.00	35.09	3.23
		Middle	3 840.00	35.24	3.34
		High	3 940.00	35.03	3.18
3	QPSK	Low	3 740.00	35.56	3.60
		Middle	3 840.00	35.70	3.71
		High	3 940.00	35.47	3.53
	16QAM	Low	3 740.00	35.67	3.69
		Middle	3 840.00	35.79	3.80
		High	3 940.00	35.36	3.43
	64QAM	Low	3 740.00	35.64	3.66
		Middle	3 840.00	35.77	3.78
		High	3 940.00	35.38	3.45
	256QAM	Low	3 740.00	35.70	3.71
		Middle	3 840.00	35.75	3.76
		High	3 940.00	35.49	3.54
4	QPSK	Low	3 740.00	35.14	3.27
		Middle	3 840.00	35.22	3.33
		High	3 940.00	35.13	3.26
	16QAM	Low	3 740.00	35.20	3.31
		Middle	3 840.00	35.26	3.36
		High	3 940.00	35.05	3.20
	64QAM	Low	3 740.00	35.19	3.31
		Middle	3 840.00	35.29	3.38
		High	3 940.00	35.12	3.25
	256QAM	Low	3 740.00	35.22	3.33
		Middle	3 840.00	35.22	3.33
		High	3 940.00	35.25	3.35

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
5	QPSK	Low	3 740.00	35.52	3.57
		Middle	3 840.00	35.44	3.50
		High	3 940.00	35.28	3.37
	16QAM	Low	3 740.00	35.52	3.57
		Middle	3 840.00	35.56	3.60
		High	3 940.00	35.21	3.32
	64QAM	Low	3 740.00	35.51	3.55
		Middle	3 840.00	35.59	3.62
		High	3 940.00	35.22	3.33
	256QAM	Low	3 740.00	35.55	3.59
		Middle	3 840.00	35.47	3.52
		High	3 940.00	35.31	3.40
6	QPSK	Low	3 740.00	35.30	3.39
		Middle	3 840.00	35.18	3.30
		High	3 940.00	35.00	3.16
	16QAM	Low	3 740.00	35.26	3.36
		Middle	3 840.00	35.25	3.35
		High	3 940.00	34.94	3.12
	64QAM	Low	3 740.00	35.27	3.36
		Middle	3 840.00	35.28	3.38
		High	3 940.00	35.00	3.17
	256QAM	Low	3 740.00	35.28	3.37
		Middle	3 840.00	35.22	3.33
		High	3 940.00	35.16	3.28
7	QPSK	Low	3 740.00	35.43	3.49
		Middle	3 840.00	35.32	3.40
		High	3 940.00	35.08	3.22
	16QAM	Low	3 740.00	35.47	3.52
		Middle	3 840.00	35.36	3.44
		High	3 940.00	35.06	3.21
	64QAM	Low	3 740.00	35.47	3.53
		Middle	3 840.00	35.41	3.48
		High	3 940.00	35.09	3.23
	256QAM	Low	3 740.00	35.49	3.54
		Middle	3 840.00	35.35	3.43
		High	3 940.00	35.16	3.28



Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
8	QPSK	Low	3 740.00	34.60	2.89
		Middle	3 840.00	34.85	3.05
		High	3 940.00	34.54	2.85
	16QAM	Low	3 740.00	34.61	2.89
		Middle	3 840.00	34.95	3.13
		High	3 940.00	34.97	3.14
	64QAM	Low	3 740.00	34.71	2.96
		Middle	3 840.00	34.95	3.13
		High	3 940.00	35.03	3.19
	256QAM	Low	3 740.00	34.74	2.98
		Middle	3 840.00	34.84	3.05
		High	3 940.00	35.14	3.27
9	QPSK	Low	3 740.00	34.25	2.66
		Middle	3 840.00	34.47	2.80
		High	3 940.00	34.06	2.55
	16QAM	Low	3 740.00	34.26	2.67
		Middle	3 840.00	34.56	2.86
		High	3 940.00	34.45	2.79
	64QAM	Low	3 740.00	34.38	2.74
		Middle	3 840.00	34.52	2.83
		High	3 940.00	34.48	2.81
	256QAM	Low	3 740.00	34.40	2.75
		Middle	3 840.00	34.42	2.77
		High	3 940.00	34.56	2.86
10	QPSK	Low	3 740.00	35.10	3.24
		Middle	3 840.00	35.16	3.28
		High	3 940.00	35.01	3.17
	16QAM	Low	3 740.00	35.15	3.28
		Middle	3 840.00	35.26	3.35
		High	3 940.00	35.38	3.45
	64QAM	Low	3 740.00	35.18	3.29
		Middle	3 840.00	35.22	3.32
		High	3 940.00	35.51	3.56
	256QAM	Low	3 740.00	35.24	3.34
		Middle	3 840.00	35.12	3.25
		High	3 940.00	35.50	3.55

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
11	QPSK	Low	3 740.00	35.63	3.65
		Middle	3 840.00	35.39	3.46
		High	3 940.00	35.43	3.49
	16QAM	Low	3 740.00	35.59	3.62
		Middle	3 840.00	35.49	3.54
		High	3 940.00	35.79	3.79
	64QAM	Low	3 740.00	35.70	3.72
		Middle	3 840.00	35.46	3.51
		High	3 940.00	35.85	3.84
	256QAM	Low	3 740.00	35.73	3.74
		Middle	3 840.00	35.41	3.48
		High	3 940.00	35.92	3.91
12	QPSK	Low	3 740.00	35.28	3.38
		Middle	3 840.00	35.29	3.38
		High	3 940.00	35.12	3.25
	16QAM	Low	3 740.00	35.27	3.36
		Middle	3 840.00	35.37	3.45
		High	3 940.00	35.45	3.50
	64QAM	Low	3 740.00	35.30	3.39
		Middle	3 840.00	35.32	3.40
		High	3 940.00	35.49	3.54
	256QAM	Low	3 740.00	35.42	3.48
		Middle	3 840.00	35.30	3.39
		High	3 940.00	35.62	3.65
13	QPSK	Low	3 740.00	34.92	3.10
		Middle	3 840.00	34.84	3.05
		High	3 940.00	34.78	3.00
	16QAM	Low	3 740.00	34.94	3.12
		Middle	3 840.00	35.00	3.16
		High	3 940.00	35.14	3.27
	64QAM	Low	3 740.00	34.99	3.16
		Middle	3 840.00	34.94	3.12
		High	3 940.00	35.12	3.25
	256QAM	Low	3 740.00	35.04	3.19
		Middle	3 840.00	34.83	3.04
		High	3 940.00	35.27	3.36

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
14	QPSK	Low	3 740.00	35.14	3.27
		Middle	3 840.00	35.42	3.48
		High	3 940.00	35.10	3.24
	16QAM	Low	3 740.00	35.14	3.27
		Middle	3 840.00	35.51	3.56
		High	3 940.00	35.50	3.55
	64QAM	Low	3 740.00	35.20	3.31
		Middle	3 840.00	35.49	3.54
		High	3 940.00	35.54	3.58
	256QAM	Low	3 740.00	35.23	3.34
		Middle	3 840.00	35.43	3.49
		High	3 940.00	35.57	3.60
15	QPSK	Low	3 740.00	35.00	3.16
		Middle	3 840.00	35.11	3.24
		High	3 940.00	34.84	3.05
	16QAM	Low	3 740.00	35.03	3.18
		Middle	3 840.00	35.24	3.34
		High	3 940.00	35.21	3.32
	64QAM	Low	3 740.00	35.11	3.24
		Middle	3 840.00	35.16	3.28
		High	3 940.00	35.23	3.33
	256QAM	Low	3 740.00	35.09	3.23
		Middle	3 840.00	35.10	3.24
		High	3 940.00	35.49	3.54
16	QPSK	Low	3 740.00	35.58	3.62
		Middle	3 840.00	35.52	3.57
		High	3 940.00	35.61	3.64
	16QAM	Low	3 740.00	35.53	3.57
		Middle	3 840.00	35.70	3.71
		High	3 940.00	35.62	3.64
	64QAM	Low	3 740.00	35.55	3.59
		Middle	3 840.00	35.61	3.64
		High	3 940.00	35.64	3.66
	256QAM	Low	3 740.00	35.53	3.57
		Middle	3 840.00	35.55	3.59
		High	3 940.00	35.79	3.79

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
17	QPSK	Low	3 740.00	35.01	3.17
		Middle	3 840.00	34.96	3.13
		High	3 940.00	34.82	3.03
	16QAM	Low	3 740.00	35.01	3.17
		Middle	3 840.00	35.06	3.21
		High	3 940.00	34.81	3.03
	64QAM	Low	3 740.00	34.99	3.15
		Middle	3 840.00	34.94	3.12
		High	3 940.00	34.73	2.97
	256QAM	Low	3 740.00	35.01	3.17
		Middle	3 840.00	34.95	3.13
		High	3 940.00	34.91	3.10
18	QPSK	Low	3 740.00	35.56	3.60
		Middle	3 840.00	35.68	3.70
		High	3 940.00	35.37	3.45
	16QAM	Low	3 740.00	35.59	3.63
		Middle	3 840.00	35.81	3.81
		High	3 940.00	35.40	3.47
	64QAM	Low	3 740.00	35.59	3.62
		Middle	3 840.00	35.70	3.71
		High	3 940.00	35.39	3.46
	256QAM	Low	3 740.00	35.54	3.58
		Middle	3 840.00	35.69	3.71
		High	3 940.00	35.58	3.61
19	QPSK	Low	3 740.00	35.91	3.90
		Middle	3 840.00	35.93	3.92
		High	3 940.00	35.85	3.85
	16QAM	Low	3 740.00	35.86	3.86
		Middle	3 840.00	35.92	3.91
		High	3 940.00	35.85	3.85
	64QAM	Low	3 740.00	35.89	3.88
		Middle	3 840.00	35.86	3.85
		High	3 940.00	35.84	3.84
	256QAM	Low	3 740.00	35.94	3.92
		Middle	3 840.00	35.80	3.81
		High	3 940.00	35.82	3.82

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
20	QPSK	Low	3 740.00	35.56	3.60
		Middle	3 840.00	35.62	3.65
		High	3 940.00	35.35	3.43
	16QAM	Low	3 740.00	35.45	3.51
		Middle	3 840.00	35.67	3.69
		High	3 940.00	35.36	3.43
	64QAM	Low	3 740.00	35.48	3.53
		Middle	3 840.00	35.56	3.59
		High	3 940.00	35.28	3.37
	256QAM	Low	3 740.00	35.51	3.55
		Middle	3 840.00	35.60	3.63
		High	3 940.00	35.33	3.41
21	QPSK	Low	3 740.00	35.62	3.65
		Middle	3 840.00	35.58	3.61
		High	3 940.00	35.51	3.56
	16QAM	Low	3 740.00	35.59	3.62
		Middle	3 840.00	35.71	3.72
		High	3 940.00	35.55	3.59
	64QAM	Low	3 740.00	35.55	3.59
		Middle	3 840.00	35.62	3.65
		High	3 940.00	35.34	3.42
	256QAM	Low	3 740.00	35.64	3.67
		Middle	3 840.00	35.64	3.66
		High	3 940.00	35.45	3.50
22	QPSK	Low	3 740.00	34.90	3.09
		Middle	3 840.00	35.15	3.27
		High	3 940.00	34.65	2.92
	16QAM	Low	3 740.00	34.94	3.12
		Middle	3 840.00	35.24	3.34
		High	3 940.00	34.79	3.01
	64QAM	Low	3 740.00	34.85	3.06
		Middle	3 840.00	35.17	3.29
		High	3 940.00	34.61	2.89
	256QAM	Low	3 740.00	34.99	3.16
		Middle	3 840.00	35.15	3.27
		High	3 940.00	34.68	2.94

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
23	QPSK	Low	3 740.00	35.31	3.39
		Middle	3 840.00	35.39	3.46
		High	3 940.00	35.14	3.26
	16QAM	Low	3 740.00	35.34	3.42
		Middle	3 840.00	35.53	3.57
		High	3 940.00	35.22	3.33
	64QAM	Low	3 740.00	35.32	3.41
		Middle	3 840.00	35.46	3.51
		High	3 940.00	34.91	3.10
256QAM	Low	3 740.00	35.43	3.49	
	Middle	3 840.00	35.44	3.50	
	High	3 940.00	35.13	3.26	
24	QPSK	Low	3 740.00	34.76	2.99
		Middle	3 840.00	35.00	3.16
		High	3 940.00	35.00	3.17
	16QAM	Low	3 740.00	34.73	2.97
		Middle	3 840.00	34.98	3.15
		High	3 940.00	35.39	3.46
	64QAM	Low	3 740.00	34.78	3.00
		Middle	3 840.00	34.88	3.08
		High	3 940.00	35.26	3.35
256QAM	Low	3 740.00	35.12	3.25	
	Middle	3 840.00	34.85	3.05	
	High	3 940.00	35.35	3.42	
25	QPSK	Low	3 740.00	35.43	3.49
		Middle	3 840.00	35.34	3.42
		High	3 940.00	35.56	3.60
	16QAM	Low	3 740.00	35.41	3.47
		Middle	3 840.00	35.32	3.40
		High	3 940.00	35.90	3.89
	64QAM	Low	3 740.00	35.40	3.47
		Middle	3 840.00	35.24	3.34
		High	3 940.00	35.73	3.74
256QAM	Low	3 740.00	35.77	3.77	
	Middle	3 840.00	35.19	3.30	
	High	3 940.00	35.83	3.82	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
26	QPSK	Low	3 740.00	34.51	2.83
		Middle	3 840.00	34.53	2.84
		High	3 940.00	34.47	2.80
	16QAM	Low	3 740.00	34.52	2.83
		Middle	3 840.00	34.50	2.82
		High	3 940.00	34.86	3.06
	64QAM	Low	3 740.00	34.49	2.81
		Middle	3 840.00	34.44	2.78
		High	3 940.00	34.73	2.98
256QAM	Low	3 740.00	34.81	3.02	
	Middle	3 840.00	34.36	2.73	
	High	3 940.00	34.84	3.05	
27	QPSK	Low	3 740.00	34.42	2.77
		Middle	3 840.00	34.44	2.78
		High	3 940.00	34.31	2.70
	16QAM	Low	3 740.00	34.34	2.72
		Middle	3 840.00	34.39	2.75
		High	3 940.00	34.73	2.97
	64QAM	Low	3 740.00	34.44	2.78
		Middle	3 840.00	34.32	2.70
		High	3 940.00	34.56	2.86
256QAM	Low	3 740.00	34.70	2.95	
	Middle	3 840.00	34.26	2.67	
	High	3 940.00	34.57	2.86	
28	QPSK	Low	3 740.00	35.12	3.25
		Middle	3 840.00	35.09	3.22
		High	3 940.00	34.93	3.11
	16QAM	Low	3 740.00	35.14	3.27
		Middle	3 840.00	35.07	3.21
		High	3 940.00	35.19	3.31
	64QAM	Low	3 740.00	35.18	3.30
		Middle	3 840.00	34.96	3.13
		High	3 940.00	35.01	3.17
256QAM	Low	3 740.00	35.37	3.44	
	Middle	3 840.00	34.92	3.11	
	High	3 940.00	35.12	3.25	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
29	QPSK	Low	3 740.00	34.67	2.93
		Middle	3 840.00	34.47	2.80
		High	3 940.00	34.53	2.84
	16QAM	Low	3 740.00	34.71	2.96
		Middle	3 840.00	34.51	2.83
		High	3 940.00	34.87	3.07
	64QAM	Low	3 740.00	34.72	2.96
		Middle	3 840.00	34.44	2.78
		High	3 940.00	34.78	3.00
	256QAM	Low	3 740.00	34.91	3.10
		Middle	3 840.00	34.39	2.75
		High	3 940.00	34.69	2.94
30	QPSK	Low	3 740.00	34.47	2.80
		Middle	3 840.00	34.46	2.79
		High	3 940.00	34.19	2.62
	16QAM	Low	3 740.00	34.48	2.80
		Middle	3 840.00	34.47	2.80
		High	3 940.00	34.55	2.85
	64QAM	Low	3 740.00	34.46	2.79
		Middle	3 840.00	34.40	2.75
		High	3 940.00	34.52	2.83
	256QAM	Low	3 740.00	34.67	2.93
		Middle	3 840.00	34.33	2.71
		High	3 940.00	34.48	2.81
31	QPSK	Low	3 740.00	34.60	2.89
		Middle	3 840.00	35.05	3.20
		High	3 940.00	34.52	2.83
	16QAM	Low	3 740.00	34.57	2.86
		Middle	3 840.00	35.04	3.19
		High	3 940.00	34.88	3.08
	64QAM	Low	3 740.00	34.57	2.86
		Middle	3 840.00	35.01	3.17
		High	3 940.00	34.79	3.01
	256QAM	Low	3 740.00	34.69	2.94
		Middle	3 840.00	34.95	3.13
		High	3 940.00	34.78	3.00



Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
32	QPSK	Low	3 740.00	34.61	2.89
		Middle	3 840.00	34.75	2.98
		High	3 940.00	34.68	2.94
	16QAM	Low	3 740.00	34.85	3.06
		Middle	3 840.00	34.85	3.05
		High	3 940.00	34.87	3.07
	64QAM	Low	3 740.00	34.86	3.06
		Middle	3 840.00	34.83	3.04
		High	3 940.00	34.81	3.02
	256QAM	Low	3 740.00	34.95	3.13
		Middle	3 840.00	34.81	3.03
		High	3 940.00	34.70	2.95
33	QPSK	Low	3 740.00	35.41	3.47
		Middle	3 840.00	35.36	3.44
		High	3 940.00	35.34	3.42
	16QAM	Low	3 740.00	35.61	3.64
		Middle	3 840.00	35.39	3.46
		High	3 940.00	35.51	3.55
	64QAM	Low	3 740.00	35.56	3.60
		Middle	3 840.00	35.43	3.49
		High	3 940.00	35.46	3.51
	256QAM	Low	3 740.00	35.64	3.67
		Middle	3 840.00	35.36	3.43
		High	3 940.00	35.41	3.47
34	QPSK	Low	3 740.00	34.74	2.98
		Middle	3 840.00	34.85	3.05
		High	3 940.00	34.65	2.92
	16QAM	Low	3 740.00	34.91	3.10
		Middle	3 840.00	34.92	3.10
		High	3 940.00	34.80	3.02
	64QAM	Low	3 740.00	34.92	3.10
		Middle	3 840.00	34.90	3.09
		High	3 940.00	34.65	2.92
	256QAM	Low	3 740.00	34.98	3.14
		Middle	3 840.00	34.81	3.03
		High	3 940.00	34.63	2.90

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
35	QPSK	Low	3 740.00	35.28	3.38
		Middle	3 840.00	35.46	3.52
		High	3 940.00	35.08	3.22
	16QAM	Low	3 740.00	35.39	3.46
		Middle	3 840.00	35.44	3.50
		High	3 940.00	35.27	3.37
	64QAM	Low	3 740.00	35.37	3.45
		Middle	3 840.00	35.44	3.50
		High	3 940.00	35.12	3.25
	256QAM	Low	3 740.00	35.52	3.56
		Middle	3 840.00	35.36	3.44
		High	3 940.00	35.19	3.30
36	QPSK	Low	3 740.00	34.69	2.95
		Middle	3 840.00	34.86	3.06
		High	3 940.00	34.64	2.91
	16QAM	Low	3 740.00	34.77	3.00
		Middle	3 840.00	34.76	2.99
		High	3 940.00	34.78	3.01
	64QAM	Low	3 740.00	34.77	3.00
		Middle	3 840.00	34.79	3.02
		High	3 940.00	34.65	2.92
	256QAM	Low	3 740.00	34.84	3.05
		Middle	3 840.00	34.74	2.98
		High	3 940.00	34.69	2.94
37	QPSK	Low	3 740.00	35.21	3.32
		Middle	3 840.00	35.21	3.32
		High	3 940.00	34.90	3.09
	16QAM	Low	3 740.00	35.25	3.35
		Middle	3 840.00	35.15	3.27
		High	3 940.00	35.08	3.22
	64QAM	Low	3 740.00	35.24	3.34
		Middle	3 840.00	35.20	3.31
		High	3 940.00	34.89	3.09
	256QAM	Low	3 740.00	35.32	3.40
		Middle	3 840.00	35.14	3.27
		High	3 940.00	34.96	3.13

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
38	QPSK	Low	3 740.00	35.01	3.17
		Middle	3 840.00	35.01	3.17
		High	3 940.00	34.56	2.86
	16QAM	Low	3 740.00	35.00	3.17
		Middle	3 840.00	34.97	3.14
		High	3 940.00	34.79	3.01
	64QAM	Low	3 740.00	34.94	3.12
		Middle	3 840.00	34.97	3.14
		High	3 940.00	34.55	2.85
	256QAM	Low	3 740.00	35.01	3.17
		Middle	3 840.00	34.95	3.13
		High	3 940.00	34.61	2.89
39	QPSK	Low	3 740.00	35.22	3.33
		Middle	3 840.00	35.30	3.39
		High	3 940.00	34.85	3.06
	16QAM	Low	3 740.00	35.31	3.40
		Middle	3 840.00	35.31	3.39
		High	3 940.00	35.03	3.18
	64QAM	Low	3 740.00	35.19	3.30
		Middle	3 840.00	35.30	3.39
		High	3 940.00	34.87	3.07
	256QAM	Low	3 740.00	35.40	3.47
		Middle	3 840.00	35.26	3.35
		High	3 940.00	34.92	3.10
40	QPSK	Low	3 740.00	34.70	2.95
		Middle	3 840.00	34.79	3.01
		High	3 940.00	34.74	2.98
	16QAM	Low	3 740.00	34.73	2.97
		Middle	3 840.00	34.77	3.00
		High	3 940.00	34.94	3.12
	64QAM	Low	3 740.00	34.68	2.94
		Middle	3 840.00	34.75	2.98
		High	3 940.00	34.89	3.08
	256QAM	Low	3 740.00	34.81	3.02
		Middle	3 840.00	34.89	3.09
		High	3 940.00	34.95	3.12

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
41	QPSK	Low	3 740.00	34.16	2.61
		Middle	3 840.00	34.19	2.63
		High	3 940.00	34.18	2.62
	16QAM	Low	3 740.00	34.17	2.61
		Middle	3 840.00	34.14	2.59
		High	3 940.00	34.29	2.69
	64QAM	Low	3 740.00	34.10	2.57
		Middle	3 840.00	34.10	2.57
		High	3 940.00	34.23	2.65
	256QAM	Low	3 740.00	34.27	2.67
		Middle	3 840.00	34.23	2.65
		High	3 940.00	34.31	2.69
42	QPSK	Low	3 740.00	35.11	3.24
		Middle	3 840.00	35.19	3.30
		High	3 940.00	35.23	3.34
	16QAM	Low	3 740.00	35.15	3.28
		Middle	3 840.00	35.15	3.27
		High	3 940.00	35.42	3.48
	64QAM	Low	3 740.00	35.07	3.22
		Middle	3 840.00	35.17	3.29
		High	3 940.00	35.30	3.39
	256QAM	Low	3 740.00	35.25	3.35
		Middle	3 840.00	35.28	3.37
		High	3 940.00	35.32	3.41
43	QPSK	Low	3 740.00	35.25	3.35
		Middle	3 840.00	35.13	3.25
		High	3 940.00	35.37	3.44
	16QAM	Low	3 740.00	35.31	3.39
		Middle	3 840.00	35.05	3.20
		High	3 940.00	35.55	3.59
	64QAM	Low	3 740.00	35.19	3.31
		Middle	3 840.00	35.06	3.21
		High	3 940.00	35.40	3.47
	256QAM	Low	3 740.00	35.34	3.42
		Middle	3 840.00	35.20	3.31
		High	3 940.00	35.49	3.54

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
44	QPSK	Low	3 740.00	35.05	3.20
		Middle	3 840.00	35.33	3.41
		High	3 940.00	35.26	3.36
	16QAM	Low	3 740.00	35.06	3.21
		Middle	3 840.00	35.21	3.32
		High	3 940.00	35.51	3.55
	64QAM	Low	3 740.00	34.94	3.12
		Middle	3 840.00	35.23	3.34
		High	3 940.00	35.41	3.48
	256QAM	Low	3 740.00	35.17	3.29
		Middle	3 840.00	35.38	3.45
		High	3 940.00	35.47	3.52
45	QPSK	Low	3 740.00	34.71	2.96
		Middle	3 840.00	34.55	2.85
		High	3 940.00	34.77	3.00
	16QAM	Low	3 740.00	34.73	2.97
		Middle	3 840.00	34.56	2.86
		High	3 940.00	34.92	3.11
	64QAM	Low	3 740.00	34.62	2.90
		Middle	3 840.00	34.67	2.93
		High	3 940.00	34.83	3.04
	256QAM	Low	3 740.00	34.81	3.03
		Middle	3 840.00	34.77	3.00
		High	3 940.00	34.89	3.09
46	QPSK	Low	3 740.00	34.98	3.15
		Middle	3 840.00	34.98	3.15
		High	3 940.00	35.34	3.42
	16QAM	Low	3 740.00	35.02	3.18
		Middle	3 840.00	35.02	3.18
		High	3 940.00	35.49	3.54
	64QAM	Low	3 740.00	34.90	3.09
		Middle	3 840.00	35.09	3.23
		High	3 940.00	35.43	3.49
	256QAM	Low	3 740.00	35.10	3.23
		Middle	3 840.00	35.19	3.31
		High	3 940.00	35.49	3.54

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
47	QPSK	Low	3 740.00	34.72	2.97
		Middle	3 840.00	34.53	2.84
		High	3 940.00	34.86	3.06
	16QAM	Low	3 740.00	34.78	3.00
		Middle	3 840.00	34.71	2.96
		High	3 940.00	35.02	3.18
	64QAM	Low	3 740.00	34.69	2.95
		Middle	3 840.00	34.64	2.91
		High	3 940.00	34.90	3.09
	256QAM	Low	3 740.00	34.81	3.03
		Middle	3 840.00	34.73	2.97
		High	3 940.00	35.00	3.16
48	QPSK	Low	3 740.00	35.17	3.29
		Middle	3 840.00	35.19	3.30
		High	3 940.00	35.10	3.23
	16QAM	Low	3 740.00	35.22	3.33
		Middle	3 840.00	35.25	3.35
		High	3 940.00	35.15	3.27
	64QAM	Low	3 740.00	35.04	3.19
		Middle	3 840.00	35.27	3.37
		High	3 940.00	34.93	3.11
	256QAM	Low	3 740.00	35.27	3.37
		Middle	3 840.00	35.12	3.25
		High	3 940.00	35.00	3.16
49	QPSK	Low	3 740.00	34.72	2.96
		Middle	3 840.00	34.65	2.92
		High	3 940.00	34.44	2.78
	16QAM	Low	3 740.00	34.75	2.99
		Middle	3 840.00	34.71	2.96
		High	3 940.00	34.48	2.80
	64QAM	Low	3 740.00	34.61	2.89
		Middle	3 840.00	34.52	2.83
		High	3 940.00	34.30	2.69
	256QAM	Low	3 740.00	34.82	3.03
		Middle	3 840.00	34.62	2.90
		High	3 940.00	34.33	2.71

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
50	QPSK	Low	3 740.00	35.47	3.53
		Middle	3 840.00	35.38	3.45
		High	3 940.00	35.36	3.43
	16QAM	Low	3 740.00	35.44	3.50
		Middle	3 840.00	35.46	3.51
		High	3 940.00	35.39	3.46
	64QAM	Low	3 740.00	35.32	3.40
		Middle	3 840.00	35.34	3.42
		High	3 940.00	35.18	3.29
	256QAM	Low	3 740.00	35.52	3.57
		Middle	3 840.00	35.40	3.46
		High	3 940.00	35.21	3.32
51	QPSK	Low	3 740.00	35.75	3.76
		Middle	3 840.00	35.54	3.58
		High	3 940.00	35.62	3.65
	16QAM	Low	3 740.00	35.78	3.79
		Middle	3 840.00	35.65	3.67
		High	3 940.00	35.71	3.72
	64QAM	Low	3 740.00	35.63	3.65
		Middle	3 840.00	35.54	3.58
		High	3 940.00	35.54	3.58
	256QAM	Low	3 740.00	35.85	3.84
		Middle	3 840.00	35.53	3.57
		High	3 940.00	35.55	3.59
52	QPSK	Low	3 740.00	35.46	3.52
		Middle	3 840.00	35.40	3.47
		High	3 940.00	35.30	3.39
	16QAM	Low	3 740.00	35.51	3.56
		Middle	3 840.00	35.53	3.57
		High	3 940.00	35.37	3.45
	64QAM	Low	3 740.00	35.37	3.45
		Middle	3 840.00	35.34	3.42
		High	3 940.00	35.14	3.27
	256QAM	Low	3 740.00	35.66	3.68
		Middle	3 840.00	35.35	3.43
		High	3 940.00	35.14	3.27

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
53	QPSK	Low	3 740.00	35.17	3.29
		Middle	3 840.00	34.96	3.14
		High	3 940.00	35.03	3.19
	16QAM	Low	3 740.00	35.23	3.33
		Middle	3 840.00	35.10	3.24
		High	3 940.00	35.19	3.31
	64QAM	Low	3 740.00	35.11	3.25
		Middle	3 840.00	34.93	3.11
		High	3 940.00	35.00	3.17
	256QAM	Low	3 740.00	35.41	3.48
		Middle	3 840.00	34.98	3.15
		High	3 940.00	35.01	3.17
54	QPSK	Low	3 740.00	34.81	3.03
		Middle	3 840.00	34.81	3.02
		High	3 940.00	34.48	2.81
	16QAM	Low	3 740.00	34.84	3.05
		Middle	3 840.00	34.86	3.06
		High	3 940.00	34.50	2.82
	64QAM	Low	3 740.00	34.66	2.93
		Middle	3 840.00	34.70	2.95
		High	3 940.00	34.32	2.71
	256QAM	Low	3 740.00	34.99	3.15
		Middle	3 840.00	34.76	2.99
		High	3 940.00	34.30	2.69
55	QPSK	Low	3 740.00	35.03	3.19
		Middle	3 840.00	34.79	3.01
		High	3 940.00	34.56	2.85
	16QAM	Low	3 740.00	34.99	3.15
		Middle	3 840.00	34.85	3.05
		High	3 940.00	34.51	2.83
	64QAM	Low	3 740.00	34.88	3.07
		Middle	3 840.00	34.71	2.96
		High	3 940.00	34.28	2.68
	256QAM	Low	3 740.00	35.20	3.31
		Middle	3 840.00	34.62	2.90
		High	3 940.00	34.20	2.63



Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
56	QPSK	Low	3 740.00	34.83	3.04
		Middle	3 840.00	34.78	3.00
		High	3 940.00	34.97	3.14
	16QAM	Low	3 740.00	34.82	3.03
		Middle	3 840.00	34.82	3.03
		High	3 940.00	35.12	3.25
	64QAM	Low	3 740.00	34.74	2.98
		Middle	3 840.00	34.73	2.97
		High	3 940.00	35.00	3.16
	256QAM	Low	3 740.00	35.04	3.19
		Middle	3 840.00	35.00	3.16
		High	3 940.00	35.01	3.17
57	QPSK	Low	3 740.00	35.08	3.22
		Middle	3 840.00	34.94	3.12
		High	3 940.00	35.24	3.34
	16QAM	Low	3 740.00	35.10	3.24
		Middle	3 840.00	35.10	3.24
		High	3 940.00	35.45	3.51
	64QAM	Low	3 740.00	35.10	3.24
		Middle	3 840.00	35.01	3.17
		High	3 940.00	35.31	3.40
	256QAM	Low	3 740.00	35.34	3.42
		Middle	3 840.00	35.20	3.31
		High	3 940.00	35.44	3.50
58	QPSK	Low	3 740.00	34.32	2.71
		Middle	3 840.00	34.20	2.63
		High	3 940.00	34.39	2.75
	16QAM	Low	3 740.00	34.36	2.73
		Middle	3 840.00	34.32	2.71
		High	3 940.00	34.61	2.89
	64QAM	Low	3 740.00	34.29	2.68
		Middle	3 840.00	34.22	2.64
		High	3 940.00	34.53	2.84
	256QAM	Low	3 740.00	34.63	2.90
		Middle	3 840.00	34.43	2.77
		High	3 940.00	34.51	2.83

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
59	QPSK	Low	3 740.00	34.38	2.74
		Middle	3 840.00	34.15	2.60
		High	3 940.00	34.37	2.74
	16QAM	Low	3 740.00	34.36	2.73
		Middle	3 840.00	34.27	2.67
		High	3 940.00	34.53	2.84
	64QAM	Low	3 740.00	34.29	2.69
		Middle	3 840.00	34.18	2.62
		High	3 940.00	34.44	2.78
	256QAM	Low	3 740.00	34.61	2.89
		Middle	3 840.00	34.44	2.78
		High	3 940.00	34.45	2.78
60	QPSK	Low	3 740.00	34.85	3.05
		Middle	3 840.00	34.72	2.96
		High	3 940.00	34.87	3.07
	16QAM	Low	3 740.00	34.75	2.99
		Middle	3 840.00	34.84	3.05
		High	3 940.00	35.07	3.21
	64QAM	Low	3 740.00	34.74	2.98
		Middle	3 840.00	34.81	3.03
		High	3 940.00	34.87	3.07
	256QAM	Low	3 740.00	35.01	3.17
		Middle	3 840.00	35.05	3.20
		High	3 940.00	34.97	3.14
61	QPSK	Low	3 740.00	34.59	2.88
		Middle	3 840.00	34.36	2.73
		High	3 940.00	34.61	2.89
	16QAM	Low	3 740.00	34.58	2.87
		Middle	3 840.00	34.49	2.81
		High	3 940.00	34.78	3.01
	64QAM	Low	3 740.00	34.54	2.85
		Middle	3 840.00	34.39	2.75
		High	3 940.00	34.63	2.91
	256QAM	Low	3 740.00	34.86	3.06
		Middle	3 840.00	34.59	2.88
		High	3 940.00	34.64	2.91

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
62	QPSK	Low	3 740.00	34.21	2.63
		Middle	3 840.00	34.11	2.58
		High	3 940.00	34.29	2.69
	16QAM	Low	3 740.00	34.20	2.63
		Middle	3 840.00	34.23	2.65
		High	3 940.00	34.41	2.76
	64QAM	Low	3 740.00	34.15	2.60
		Middle	3 840.00	34.20	2.63
		High	3 940.00	34.32	2.70
	256QAM	Low	3 740.00	34.47	2.80
		Middle	3 840.00	34.34	2.72
		High	3 940.00	34.34	2.72
63	QPSK	Low	3 740.00	34.64	2.91
		Middle	3 840.00	34.54	2.85
		High	3 940.00	34.55	2.85
	16QAM	Low	3 740.00	34.64	2.91
		Middle	3 840.00	34.67	2.93
		High	3 940.00	34.75	2.98
	64QAM	Low	3 740.00	34.58	2.87
		Middle	3 840.00	34.57	2.87
		High	3 940.00	34.60	2.88
	256QAM	Low	3 740.00	34.83	3.04
		Middle	3 840.00	34.73	2.97
		High	3 940.00	34.63	2.91

**Sum Data of Port 0 ~ Port 63**

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
3 740.00	204.13	205.46	204.15	211.13
3 840.00	204.49	207.34	205.14	205.39
3 940.00	200.30	207.93	203.82	206.72

## Tabular Data of RF Contiguous output power

## (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	3 770.00	34.99	3.16
	16QAM	Low	3 770.00	34.58	2.87
	64QAM	Low	3 770.00	34.95	3.13
	256QAM	Low	3 770.00	34.79	3.01
1	QPSK	Low	3 770.00	35.63	3.66
	16QAM	Low	3 770.00	35.29	3.38
	64QAM	Low	3 770.00	35.77	3.77
	256QAM	Low	3 770.00	35.66	3.68
2	QPSK	Low	3 770.00	34.67	2.93
	16QAM	Low	3 770.00	34.53	2.84
	64QAM	Low	3 770.00	34.92	3.10
	256QAM	Low	3 770.00	34.85	3.05
3	QPSK	Low	3 770.00	35.26	3.36
	16QAM	Low	3 770.00	34.97	3.14
	64QAM	Low	3 770.00	35.37	3.44
	256QAM	Low	3 770.00	35.41	3.47
4	QPSK	Low	3 770.00	34.62	2.90
	16QAM	Low	3 770.00	34.56	2.86
	64QAM	Low	3 770.00	34.99	3.15
	256QAM	Low	3 770.00	35.04	3.19
5	QPSK	Low	3 770.00	35.13	3.26
	16QAM	Low	3 770.00	34.79	3.02
	64QAM	Low	3 770.00	35.11	3.25
	256QAM	Low	3 770.00	35.18	3.29
6	QPSK	Low	3 770.00	35.00	3.16
	16QAM	Low	3 770.00	34.73	2.97
	64QAM	Low	3 770.00	35.08	3.22
	256QAM	Low	3 770.00	35.15	3.27
7	QPSK	Low	3 770.00	35.08	3.22
	16QAM	Low	3 770.00	34.86	3.06
	64QAM	Low	3 770.00	35.20	3.31
	256QAM	Low	3 770.00	35.25	3.35

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
8	QPSK	Low	3 770.00	34.52	2.83
	16QAM	Low	3 770.00	34.45	2.79
	64QAM	Low	3 770.00	34.76	3.00
	256QAM	Low	3 770.00	34.79	3.02
9	QPSK	Low	3 770.00	34.05	2.54
	16QAM	Low	3 770.00	34.02	2.53
	64QAM	Low	3 770.00	34.37	2.73
	256QAM	Low	3 770.00	34.42	2.77
10	QPSK	Low	3 770.00	34.94	3.12
	16QAM	Low	3 770.00	34.99	3.16
	64QAM	Low	3 770.00	35.27	3.37
	256QAM	Low	3 770.00	35.39	3.46
11	QPSK	Low	3 770.00	35.32	3.40
	16QAM	Low	3 770.00	35.33	3.41
	64QAM	Low	3 770.00	35.64	3.66
	256QAM	Low	3 770.00	35.73	3.74
12	QPSK	Low	3 770.00	35.11	3.24
	16QAM	Low	3 770.00	35.05	3.20
	64QAM	Low	3 770.00	35.30	3.39
	256QAM	Low	3 770.00	35.39	3.46
13	QPSK	Low	3 770.00	34.64	2.91
	16QAM	Low	3 770.00	34.69	2.94
	64QAM	Low	3 770.00	34.90	3.09
	256QAM	Low	3 770.00	35.00	3.16
14	QPSK	Low	3 770.00	35.03	3.18
	16QAM	Low	3 770.00	35.01	3.17
	64QAM	Low	3 770.00	35.24	3.34
	256QAM	Low	3 770.00	35.42	3.49
15	QPSK	Low	3 770.00	34.83	3.04
	16QAM	Low	3 770.00	34.82	3.03
	64QAM	Low	3 770.00	35.06	3.21
	256QAM	Low	3 770.00	35.19	3.30

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
16	QPSK	Low	3 770.00	34.88	3.08
	16QAM	Low	3 770.00	34.86	3.06
	64QAM	Low	3 770.00	35.01	3.17
	256QAM	Low	3 770.00	35.14	3.27
17	QPSK	Low	3 770.00	34.28	2.68
	16QAM	Low	3 770.00	34.20	2.63
	64QAM	Low	3 770.00	34.40	2.76
	256QAM	Low	3 770.00	34.53	2.84
18	QPSK	Low	3 770.00	34.99	3.16
	16QAM	Low	3 770.00	34.92	3.11
	64QAM	Low	3 770.00	35.02	3.18
	256QAM	Low	3 770.00	35.25	3.35
19	QPSK	Low	3 770.00	35.34	3.42
	16QAM	Low	3 770.00	35.32	3.40
	64QAM	Low	3 770.00	35.42	3.48
	256QAM	Low	3 770.00	35.66	3.68
20	QPSK	Low	3 770.00	34.91	3.10
	16QAM	Low	3 770.00	35.06	3.20
	64QAM	Low	3 770.00	35.05	3.20
	256QAM	Low	3 770.00	35.16	3.28
21	QPSK	Low	3 770.00	34.98	3.15
	16QAM	Low	3 770.00	35.16	3.28
	64QAM	Low	3 770.00	35.09	3.23
	256QAM	Low	3 770.00	35.19	3.31
22	QPSK	Low	3 770.00	34.57	2.86
	16QAM	Low	3 770.00	34.52	2.83
	64QAM	Low	3 770.00	34.41	2.76
	256QAM	Low	3 770.00	34.52	2.83
23	QPSK	Low	3 770.00	34.72	2.97
	16QAM	Low	3 770.00	34.60	2.89
	64QAM	Low	3 770.00	34.58	2.87
	256QAM	Low	3 770.00	34.73	2.97

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
24	QPSK	Low	3 770.00	34.67	2.93
	16QAM	Low	3 770.00	34.94	3.12
	64QAM	Low	3 770.00	34.92	3.11
	256QAM	Low	3 770.00	35.00	3.17
25	QPSK	Low	3 770.00	35.30	3.39
	16QAM	Low	3 770.00	35.50	3.55
	64QAM	Low	3 770.00	35.42	3.48
	256QAM	Low	3 770.00	35.46	3.51
26	QPSK	Low	3 770.00	34.53	2.84
	16QAM	Low	3 770.00	34.69	2.94
	64QAM	Low	3 770.00	34.66	2.93
	256QAM	Low	3 770.00	34.68	2.94
27	QPSK	Low	3 770.00	34.34	2.72
	16QAM	Low	3 770.00	34.58	2.87
	64QAM	Low	3 770.00	34.56	2.86
	256QAM	Low	3 770.00	34.58	2.87
28	QPSK	Low	3 770.00	34.99	3.15
	16QAM	Low	3 770.00	35.13	3.26
	64QAM	Low	3 770.00	35.11	3.24
	256QAM	Low	3 770.00	35.08	3.22
29	QPSK	Low	3 770.00	34.41	2.76
	16QAM	Low	3 770.00	34.65	2.91
	64QAM	Low	3 770.00	34.65	2.92
	256QAM	Low	3 770.00	34.68	2.93
30	QPSK	Low	3 770.00	34.35	2.72
	16QAM	Low	3 770.00	34.55	2.85
	64QAM	Low	3 770.00	34.55	2.85
	256QAM	Low	3 770.00	34.53	2.84
31	QPSK	Low	3 770.00	34.48	2.80
	16QAM	Low	3 770.00	34.67	2.93
	64QAM	Low	3 770.00	34.64	2.91
	256QAM	Low	3 770.00	34.64	2.91

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
32	QPSK	Low	3 770.00	34.85	3.05
	16QAM	Low	3 770.00	34.93	3.11
	64QAM	Low	3 770.00	34.82	3.03
	256QAM	Low	3 770.00	34.78	3.01
33	QPSK	Low	3 770.00	35.67	3.69
	16QAM	Low	3 770.00	35.70	3.71
	64QAM	Low	3 770.00	35.64	3.67
	256QAM	Low	3 770.00	35.62	3.65
34	QPSK	Low	3 770.00	34.85	3.05
	16QAM	Low	3 770.00	34.91	3.10
	64QAM	Low	3 770.00	34.81	3.03
	256QAM	Low	3 770.00	34.79	3.02
35	QPSK	Low	3 770.00	35.50	3.55
	16QAM	Low	3 770.00	35.55	3.59
	64QAM	Low	3 770.00	35.54	3.58
	256QAM	Low	3 770.00	35.46	3.52
36	QPSK	Low	3 770.00	34.78	3.00
	16QAM	Low	3 770.00	34.82	3.04
	64QAM	Low	3 770.00	34.80	3.02
	256QAM	Low	3 770.00	34.80	3.02
37	QPSK	Low	3 770.00	35.25	3.35
	16QAM	Low	3 770.00	35.30	3.39
	64QAM	Low	3 770.00	35.23	3.34
	256QAM	Low	3 770.00	35.25	3.35
38	QPSK	Low	3 770.00	34.98	3.15
	16QAM	Low	3 770.00	35.00	3.16
	64QAM	Low	3 770.00	34.97	3.14
	256QAM	Low	3 770.00	34.96	3.13
39	QPSK	Low	3 770.00	35.32	3.40
	16QAM	Low	3 770.00	35.38	3.45
	64QAM	Low	3 770.00	35.30	3.39
	256QAM	Low	3 770.00	35.28	3.37



Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
40	QPSK	Low	3 770.00	35.28	3.37
	16QAM	Low	3 770.00	35.32	3.41
	64QAM	Low	3 770.00	35.23	3.34
	256QAM	Low	3 770.00	35.18	3.30
41	QPSK	Low	3 770.00	34.64	2.91
	16QAM	Low	3 770.00	34.68	2.94
	64QAM	Low	3 770.00	34.68	2.94
	256QAM	Low	3 770.00	34.58	2.87
42	QPSK	Low	3 770.00	35.62	3.65
	16QAM	Low	3 770.00	35.72	3.73
	64QAM	Low	3 770.00	35.69	3.71
	256QAM	Low	3 770.00	35.50	3.55
43	QPSK	Low	3 770.00	35.79	3.79
	16QAM	Low	3 770.00	35.82	3.82
	64QAM	Low	3 770.00	35.82	3.82
	256QAM	Low	3 770.00	35.67	3.69
44	QPSK	Low	3 770.00	35.71	3.72
	16QAM	Low	3 770.00	35.75	3.75
	64QAM	Low	3 770.00	35.67	3.69
	256QAM	Low	3 770.00	35.58	3.61
45	QPSK	Low	3 770.00	35.26	3.36
	16QAM	Low	3 770.00	35.31	3.39
	64QAM	Low	3 770.00	35.23	3.34
	256QAM	Low	3 770.00	35.08	3.22
46	QPSK	Low	3 770.00	35.57	3.60
	16QAM	Low	3 770.00	35.66	3.68
	64QAM	Low	3 770.00	35.58	3.62
	256QAM	Low	3 770.00	35.50	3.54
47	QPSK	Low	3 770.00	35.23	3.33
	16QAM	Low	3 770.00	35.28	3.37
	64QAM	Low	3 770.00	35.18	3.29
	256QAM	Low	3 770.00	35.05	3.20

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
48	QPSK	Low	3 770.00	35.24	3.34
	16QAM	Low	3 770.00	35.29	3.38
	64QAM	Low	3 770.00	35.25	3.35
	256QAM	Low	3 770.00	35.08	3.22
49	QPSK	Low	3 770.00	34.64	2.91
	16QAM	Low	3 770.00	34.71	2.96
	64QAM	Low	3 770.00	34.57	2.87
	256QAM	Low	3 770.00	34.52	2.83
50	QPSK	Low	3 770.00	35.39	3.46
	16QAM	Low	3 770.00	35.47	3.53
	64QAM	Low	3 770.00	35.37	3.44
	256QAM	Low	3 770.00	35.40	3.47
51	QPSK	Low	3 770.00	35.70	3.71
	16QAM	Low	3 770.00	35.73	3.74
	64QAM	Low	3 770.00	35.63	3.65
	256QAM	Low	3 770.00	35.74	3.75
52	QPSK	Low	3 770.00	35.46	3.52
	16QAM	Low	3 770.00	35.52	3.56
	64QAM	Low	3 770.00	35.43	3.49
	256QAM	Low	3 770.00	35.43	3.49
53	QPSK	Low	3 770.00	35.31	3.40
	16QAM	Low	3 770.00	35.41	3.48
	64QAM	Low	3 770.00	35.34	3.42
	256QAM	Low	3 770.00	35.44	3.50
54	QPSK	Low	3 770.00	34.72	2.96
	16QAM	Low	3 770.00	34.74	2.98
	64QAM	Low	3 770.00	34.63	2.90
	256QAM	Low	3 770.00	34.82	3.03
55	QPSK	Low	3 770.00	34.54	2.84
	16QAM	Low	3 770.00	34.59	2.88
	64QAM	Low	3 770.00	34.50	2.82
	256QAM	Low	3 770.00	34.68	2.94

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
56	QPSK	Low	3 770.00	35.29	3.38
	16QAM	Low	3 770.00	35.18	3.30
	64QAM	Low	3 770.00	35.17	3.29
	256QAM	Low	3 770.00	35.23	3.33
57	QPSK	Low	3 770.00	35.75	3.76
	16QAM	Low	3 770.00	35.66	3.68
	64QAM	Low	3 770.00	35.74	3.75
	256QAM	Low	3 770.00	35.76	3.76
58	QPSK	Low	3 770.00	34.70	2.95
	16QAM	Low	3 770.00	34.66	2.92
	64QAM	Low	3 770.00	34.71	2.95
	256QAM	Low	3 770.00	34.74	2.98
59	QPSK	Low	3 770.00	34.80	3.02
	16QAM	Low	3 770.00	34.74	2.98
	64QAM	Low	3 770.00	34.79	3.01
	256QAM	Low	3 770.00	34.85	3.05
60	QPSK	Low	3 770.00	35.35	3.43
	16QAM	Low	3 770.00	35.29	3.38
	64QAM	Low	3 770.00	35.32	3.41
	256QAM	Low	3 770.00	35.37	3.44
61	QPSK	Low	3 770.00	35.03	3.18
	16QAM	Low	3 770.00	34.89	3.09
	64QAM	Low	3 770.00	34.91	3.10
	256QAM	Low	3 770.00	35.00	3.16
62	QPSK	Low	3 770.00	34.62	2.90
	16QAM	Low	3 770.00	34.54	2.85
	64QAM	Low	3 770.00	34.58	2.87
	256QAM	Low	3 770.00	34.60	2.89
63	QPSK	Low	3 770.00	34.98	3.15
	16QAM	Low	3 770.00	34.91	3.10
	64QAM	Low	3 770.00	34.94	3.12
	256QAM	Low	3 770.00	35.00	3.16

## Sum Data of Port 0 ~ Port 63

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
3 770.00	203.54	203.63	206.49	207.70

**(64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] (Asymmetric)**

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	3 770.00	35.17	3.29
	16QAM	Low	3 770.00	34.94	3.12
	64QAM	Low	3 770.00	34.94	3.12
	256QAM	Low	3 770.00	35.00	3.16
1	QPSK	Low	3 770.00	35.91	3.90
	16QAM	Low	3 770.00	35.81	3.81
	64QAM	Low	3 770.00	35.78	3.78
	256QAM	Low	3 770.00	35.84	3.84
2	QPSK	Low	3 770.00	35.23	3.33
	16QAM	Low	3 770.00	35.04	3.19
	64QAM	Low	3 770.00	35.05	3.20
	256QAM	Low	3 770.00	35.09	3.23
3	QPSK	Low	3 770.00	35.67	3.69
	16QAM	Low	3 770.00	35.48	3.53
	64QAM	Low	3 770.00	35.53	3.58
	256QAM	Low	3 770.00	35.51	3.56
4	QPSK	Low	3 770.00	35.26	3.36
	16QAM	Low	3 770.00	35.07	3.22
	64QAM	Low	3 770.00	35.12	3.25
	256QAM	Low	3 770.00	35.10	3.24
5	QPSK	Low	3 770.00	35.49	3.54
	16QAM	Low	3 770.00	35.30	3.39
	64QAM	Low	3 770.00	35.29	3.38
	256QAM	Low	3 770.00	35.37	3.44
6	QPSK	Low	3 770.00	35.35	3.43
	16QAM	Low	3 770.00	35.08	3.22
	64QAM	Low	3 770.00	35.15	3.27
	256QAM	Low	3 770.00	35.16	3.28
7	QPSK	Low	3 770.00	35.48	3.53
	16QAM	Low	3 770.00	35.25	3.35
	64QAM	Low	3 770.00	35.36	3.44
	256QAM	Low	3 770.00	35.32	3.41

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
8	QPSK	Low	3 770.00	35.25	3.35
	16QAM	Low	3 770.00	35.02	3.18
	64QAM	Low	3 770.00	35.12	3.25
	256QAM	Low	3 770.00	35.09	3.23
9	QPSK	Low	3 770.00	34.81	3.03
	16QAM	Low	3 770.00	34.48	2.81
	64QAM	Low	3 770.00	34.60	2.88
	256QAM	Low	3 770.00	34.64	2.91
10	QPSK	Low	3 770.00	35.78	3.79
	16QAM	Low	3 770.00	35.44	3.50
	64QAM	Low	3 770.00	35.52	3.56
	256QAM	Low	3 770.00	35.60	3.63
11	QPSK	Low	3 770.00	34.77	3.00
	16QAM	Low	3 770.00	35.73	3.74
	64QAM	Low	3 770.00	35.89	3.89
	256QAM	Low	3 770.00	35.90	3.89
12	QPSK	Low	3 770.00	34.93	3.11
	16QAM	Low	3 770.00	35.54	3.58
	64QAM	Low	3 770.00	35.69	3.71
	256QAM	Low	3 770.00	35.67	3.69
13	QPSK	Low	3 770.00	34.60	2.88
	16QAM	Low	3 770.00	35.20	3.31
	64QAM	Low	3 770.00	35.29	3.38
	256QAM	Low	3 770.00	35.27	3.36
14	QPSK	Low	3 770.00	35.00	3.16
	16QAM	Low	3 770.00	35.53	3.57
	64QAM	Low	3 770.00	35.61	3.64
	256QAM	Low	3 770.00	35.67	3.69
15	QPSK	Low	3 770.00	34.90	3.09
	16QAM	Low	3 770.00	35.39	3.46
	64QAM	Low	3 770.00	35.45	3.51
	256QAM	Low	3 770.00	35.49	3.54

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
16	QPSK	Low	3 770.00	35.32	3.40
	16QAM	Low	3 770.00	35.50	3.55
	64QAM	Low	3 770.00	35.54	3.58
	256QAM	Low	3 770.00	35.52	3.57
17	QPSK	Low	3 770.00	34.87	3.07
	16QAM	Low	3 770.00	34.84	3.05
	64QAM	Low	3 770.00	34.87	3.07
	256QAM	Low	3 770.00	34.92	3.10
18	QPSK	Low	3 770.00	35.57	3.60
	16QAM	Low	3 770.00	35.54	3.58
	64QAM	Low	3 770.00	35.60	3.63
	256QAM	Low	3 770.00	35.62	3.64
19	QPSK	Low	3 770.00	35.89	3.88
	16QAM	Low	3 770.00	35.86	3.86
	64QAM	Low	3 770.00	35.89	3.88
	256QAM	Low	3 770.00	35.90	3.89
20	QPSK	Low	3 770.00	35.54	3.58
	16QAM	Low	3 770.00	35.49	3.54
	64QAM	Low	3 770.00	35.54	3.58
	256QAM	Low	3 770.00	35.53	3.57
21	QPSK	Low	3 770.00	35.62	3.65
	16QAM	Low	3 770.00	35.58	3.62
	64QAM	Low	3 770.00	35.72	3.73
	256QAM	Low	3 770.00	35.59	3.62
22	QPSK	Low	3 770.00	34.89	3.08
	16QAM	Low	3 770.00	34.87	3.07
	64QAM	Low	3 770.00	34.93	3.11
	256QAM	Low	3 770.00	34.88	3.08
23	QPSK	Low	3 770.00	35.24	3.34
	16QAM	Low	3 770.00	35.14	3.26
	64QAM	Low	3 770.00	35.21	3.32
	256QAM	Low	3 770.00	35.17	3.29

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
24	QPSK	Low	3 770.00	35.38	3.45
	16QAM	Low	3 770.00	35.34	3.42
	64QAM	Low	3 770.00	35.36	3.44
	256QAM	Low	3 770.00	35.31	3.40
25	QPSK	Low	3 770.00	35.83	3.83
	16QAM	Low	3 770.00	35.84	3.84
	64QAM	Low	3 770.00	35.80	3.81
	256QAM	Low	3 770.00	35.79	3.79
26	QPSK	Low	3 770.00	34.94	3.12
	16QAM	Low	3 770.00	34.87	3.07
	64QAM	Low	3 770.00	34.94	3.12
	256QAM	Low	3 770.00	34.90	3.09
27	QPSK	Low	3 770.00	34.82	3.04
	16QAM	Low	3 770.00	34.84	3.05
	64QAM	Low	3 770.00	34.82	3.04
	256QAM	Low	3 770.00	34.82	3.03
28	QPSK	Low	3 770.00	35.56	3.60
	16QAM	Low	3 770.00	35.47	3.52
	64QAM	Low	3 770.00	35.45	3.51
	256QAM	Low	3 770.00	35.48	3.53
29	QPSK	Low	3 770.00	35.08	3.22
	16QAM	Low	3 770.00	35.00	3.16
	64QAM	Low	3 770.00	35.03	3.18
	256QAM	Low	3 770.00	35.01	3.17
30	QPSK	Low	3 770.00	34.88	3.08
	16QAM	Low	3 770.00	34.84	3.05
	64QAM	Low	3 770.00	34.86	3.06
	256QAM	Low	3 770.00	34.87	3.07
31	QPSK	Low	3 770.00	35.25	3.35
	16QAM	Low	3 770.00	35.13	3.26
	64QAM	Low	3 770.00	35.20	3.31
	256QAM	Low	3 770.00	35.17	3.29



Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
32	QPSK	Low	3 770.00	34.98	3.14
	16QAM	Low	3 770.00	34.87	3.07
	64QAM	Low	3 770.00	34.99	3.16
	256QAM	Low	3 770.00	34.96	3.14
33	QPSK	Low	3 770.00	35.80	3.80
	16QAM	Low	3 770.00	35.74	3.75
	64QAM	Low	3 770.00	35.78	3.78
	256QAM	Low	3 770.00	35.76	3.77
34	QPSK	Low	3 770.00	34.99	3.16
	16QAM	Low	3 770.00	34.94	3.12
	64QAM	Low	3 770.00	34.92	3.10
	256QAM	Low	3 770.00	34.87	3.07
35	QPSK	Low	3 770.00	35.66	3.68
	16QAM	Low	3 770.00	35.64	3.66
	64QAM	Low	3 770.00	35.67	3.69
	256QAM	Low	3 770.00	35.53	3.57
36	QPSK	Low	3 770.00	35.01	3.17
	16QAM	Low	3 770.00	34.91	3.10
	64QAM	Low	3 770.00	34.81	3.03
	256QAM	Low	3 770.00	34.94	3.12
37	QPSK	Low	3 770.00	35.42	3.48
	16QAM	Low	3 770.00	35.32	3.40
	64QAM	Low	3 770.00	35.24	3.34
	256QAM	Low	3 770.00	35.35	3.43
38	QPSK	Low	3 770.00	35.15	3.27
	16QAM	Low	3 770.00	35.00	3.16
	64QAM	Low	3 770.00	35.02	3.17
	256QAM	Low	3 770.00	35.03	3.18
39	QPSK	Low	3 770.00	35.33	3.41
	16QAM	Low	3 770.00	35.36	3.43
	64QAM	Low	3 770.00	35.38	3.45
	256QAM	Low	3 770.00	35.41	3.47

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
40	QPSK	Low	3 770.00	35.24	3.35
	16QAM	Low	3 770.00	35.21	3.32
	64QAM	Low	3 770.00	35.24	3.35
	256QAM	Low	3 770.00	35.23	3.33
41	QPSK	Low	3 770.00	34.60	2.89
	16QAM	Low	3 770.00	34.60	2.88
	64QAM	Low	3 770.00	34.55	2.85
	256QAM	Low	3 770.00	34.61	2.89
42	QPSK	Low	3 770.00	35.65	3.67
	16QAM	Low	3 770.00	35.60	3.63
	64QAM	Low	3 770.00	35.62	3.65
	256QAM	Low	3 770.00	35.66	3.68
43	QPSK	Low	3 770.00	35.79	3.80
	16QAM	Low	3 770.00	35.81	3.81
	64QAM	Low	3 770.00	35.88	3.87
	256QAM	Low	3 770.00	35.77	3.78
44	QPSK	Low	3 770.00	35.71	3.72
	16QAM	Low	3 770.00	35.69	3.71
	64QAM	Low	3 770.00	35.69	3.71
	256QAM	Low	3 770.00	35.66	3.68
45	QPSK	Low	3 770.00	35.20	3.31
	16QAM	Low	3 770.00	35.18	3.30
	64QAM	Low	3 770.00	35.26	3.35
	256QAM	Low	3 770.00	35.21	3.32
46	QPSK	Low	3 770.00	35.53	3.57
	16QAM	Low	3 770.00	35.55	3.59
	64QAM	Low	3 770.00	35.59	3.62
	256QAM	Low	3 770.00	35.60	3.63
47	QPSK	Low	3 770.00	35.16	3.28
	16QAM	Low	3 770.00	35.15	3.27
	64QAM	Low	3 770.00	35.22	3.33
	256QAM	Low	3 770.00	35.22	3.33

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
48	QPSK	Low	3 770.00	35.21	3.32
	16QAM	Low	3 770.00	35.20	3.32
	64QAM	Low	3 770.00	35.30	3.39
	256QAM	Low	3 770.00	35.28	3.38
49	QPSK	Low	3 770.00	34.64	2.91
	16QAM	Low	3 770.00	34.55	2.85
	64QAM	Low	3 770.00	34.66	2.92
	256QAM	Low	3 770.00	34.63	2.91
50	QPSK	Low	3 770.00	35.40	3.46
	16QAM	Low	3 770.00	35.38	3.45
	64QAM	Low	3 770.00	35.39	3.46
	256QAM	Low	3 770.00	35.37	3.44
51	QPSK	Low	3 770.00	35.70	3.72
	16QAM	Low	3 770.00	35.67	3.69
	64QAM	Low	3 770.00	35.71	3.72
	256QAM	Low	3 770.00	35.75	3.76
52	QPSK	Low	3 770.00	35.44	3.50
	16QAM	Low	3 770.00	35.42	3.48
	64QAM	Low	3 770.00	35.45	3.50
	256QAM	Low	3 770.00	35.42	3.48
53	QPSK	Low	3 770.00	35.34	3.42
	16QAM	Low	3 770.00	35.36	3.43
	64QAM	Low	3 770.00	35.43	3.49
	256QAM	Low	3 770.00	35.32	3.41
54	QPSK	Low	3 770.00	34.69	2.94
	16QAM	Low	3 770.00	34.65	2.92
	64QAM	Low	3 770.00	34.72	2.97
	256QAM	Low	3 770.00	34.76	2.99
55	QPSK	Low	3 770.00	34.54	2.84
	16QAM	Low	3 770.00	34.55	2.85
	64QAM	Low	3 770.00	34.66	2.93
	256QAM	Low	3 770.00	34.61	2.89

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
56	QPSK	Low	3 770.00	35.16	3.28
	16QAM	Low	3 770.00	35.15	3.27
	64QAM	Low	3 770.00	35.26	3.36
	256QAM	Low	3 770.00	35.24	3.34
57	QPSK	Low	3 770.00	35.76	3.76
	16QAM	Low	3 770.00	35.72	3.73
	64QAM	Low	3 770.00	35.78	3.78
	256QAM	Low	3 770.00	35.88	3.87
58	QPSK	Low	3 770.00	34.69	2.95
	16QAM	Low	3 770.00	34.68	2.94
	64QAM	Low	3 770.00	34.74	2.98
	256QAM	Low	3 770.00	34.78	3.01
59	QPSK	Low	3 770.00	34.76	2.99
	16QAM	Low	3 770.00	34.71	2.96
	64QAM	Low	3 770.00	34.85	3.05
	256QAM	Low	3 770.00	34.87	3.07
60	QPSK	Low	3 770.00	35.35	3.43
	16QAM	Low	3 770.00	35.33	3.41
	64QAM	Low	3 770.00	35.35	3.43
	256QAM	Low	3 770.00	35.44	3.50
61	QPSK	Low	3 770.00	34.96	3.14
	16QAM	Low	3 770.00	34.94	3.12
	64QAM	Low	3 770.00	34.98	3.15
	256QAM	Low	3 770.00	35.01	3.17
62	QPSK	Low	3 770.00	34.53	2.84
	16QAM	Low	3 770.00	34.51	2.82
	64QAM	Low	3 770.00	34.59	2.87
	256QAM	Low	3 770.00	34.65	2.92
63	QPSK	Low	3 770.00	34.95	3.12
	16QAM	Low	3 770.00	34.90	3.09
	64QAM	Low	3 770.00	35.00	3.16
	256QAM	Low	3 770.00	35.09	3.23

## Sum Data of Port 0 ~ Port 63

Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
3 770.00	214.08	213.42	215.82	215.98

**(64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 100 MHz 1 Carrier [2 Carrier] (Asymmetric)**

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
0	QPSK	Low	3 800.00	34.98	3.15
	16QAM	Low	3 800.00	35.09	3.23
	64QAM	Low	3 800.00	35.04	3.19
	256QAM	Low	3 800.00	35.03	3.19
1	QPSK	Low	3 800.00	35.83	3.82
	16QAM	Low	3 800.00	35.93	3.92
	64QAM	Low	3 800.00	35.87	3.86
	256QAM	Low	3 800.00	35.82	3.82
2	QPSK	Low	3 800.00	35.03	3.18
	16QAM	Low	3 800.00	35.07	3.21
	64QAM	Low	3 800.00	35.04	3.19
	256QAM	Low	3 800.00	35.04	3.19
3	QPSK	Low	3 800.00	35.60	3.63
	16QAM	Low	3 800.00	35.65	3.67
	64QAM	Low	3 800.00	35.59	3.63
	256QAM	Low	3 800.00	35.59	3.62
4	QPSK	Low	3 800.00	35.16	3.28
	16QAM	Low	3 800.00	35.19	3.30
	64QAM	Low	3 800.00	35.14	3.26
	256QAM	Low	3 800.00	35.16	3.28
5	QPSK	Low	3 800.00	35.33	3.41
	16QAM	Low	3 800.00	35.39	3.46
	64QAM	Low	3 800.00	35.37	3.44
	256QAM	Low	3 800.00	35.36	3.44
6	QPSK	Low	3 800.00	35.15	3.27
	16QAM	Low	3 800.00	35.23	3.34
	64QAM	Low	3 800.00	35.15	3.27
	256QAM	Low	3 800.00	35.18	3.30
7	QPSK	Low	3 800.00	35.38	3.45
	16QAM	Low	3 800.00	35.48	3.53
	64QAM	Low	3 800.00	35.41	3.47
	256QAM	Low	3 800.00	35.42	3.48

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
8	QPSK	Low	3 800.00	35.06	3.20
	16QAM	Low	3 800.00	35.08	3.22
	64QAM	Low	3 800.00	35.07	3.21
	256QAM	Low	3 800.00	35.03	3.18
9	QPSK	Low	3 800.00	34.62	2.90
	16QAM	Low	3 800.00	34.71	2.96
	64QAM	Low	3 800.00	34.64	2.91
	256QAM	Low	3 800.00	34.68	2.94
10	QPSK	Low	3 800.00	35.61	3.64
	16QAM	Low	3 800.00	35.65	3.67
	64QAM	Low	3 800.00	35.64	3.67
	256QAM	Low	3 800.00	35.61	3.64
11	QPSK	Low	3 800.00	35.86	3.85
	16QAM	Low	3 800.00	35.88	3.87
	64QAM	Low	3 800.00	35.81	3.81
	256QAM	Low	3 800.00	35.79	3.79
12	QPSK	Low	3 800.00	35.61	3.64
	16QAM	Low	3 800.00	35.57	3.61
	64QAM	Low	3 800.00	35.50	3.55
	256QAM	Low	3 800.00	35.48	3.53
13	QPSK	Low	3 800.00	35.30	3.39
	16QAM	Low	3 800.00	35.28	3.37
	64QAM	Low	3 800.00	35.23	3.33
	256QAM	Low	3 800.00	35.22	3.33
14	QPSK	Low	3 800.00	35.58	3.62
	16QAM	Low	3 800.00	35.61	3.64
	64QAM	Low	3 800.00	35.51	3.55
	256QAM	Low	3 800.00	35.46	3.51
15	QPSK	Low	3 800.00	35.46	3.52
	16QAM	Low	3 800.00	35.47	3.52
	64QAM	Low	3 800.00	35.38	3.45
	256QAM	Low	3 800.00	35.35	3.43

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
16	QPSK	Low	3 800.00	35.52	3.56
	16QAM	Low	3 800.00	35.54	3.58
	64QAM	Low	3 800.00	35.55	3.59
	256QAM	Low	3 800.00	35.48	3.53
17	QPSK	Low	3 800.00	34.91	3.10
	16QAM	Low	3 800.00	34.93	3.11
	64QAM	Low	3 800.00	34.87	3.07
	256QAM	Low	3 800.00	34.89	3.08
18	QPSK	Low	3 800.00	35.54	3.58
	16QAM	Low	3 800.00	35.58	3.61
	64QAM	Low	3 800.00	35.54	3.58
	256QAM	Low	3 800.00	35.52	3.56
19	QPSK	Low	3 800.00	35.92	3.91
	16QAM	Low	3 800.00	35.91	3.90
	64QAM	Low	3 800.00	35.92	3.91
	256QAM	Low	3 800.00	35.93	3.92
20	QPSK	Low	3 800.00	35.45	3.50
	16QAM	Low	3 800.00	35.45	3.51
	64QAM	Low	3 800.00	35.51	3.55
	256QAM	Low	3 800.00	35.47	3.52
21	QPSK	Low	3 800.00	35.68	3.70
	16QAM	Low	3 800.00	35.67	3.69
	64QAM	Low	3 800.00	35.70	3.71
	256QAM	Low	3 800.00	35.67	3.69
22	QPSK	Low	3 800.00	34.90	3.09
	16QAM	Low	3 800.00	34.88	3.07
	64QAM	Low	3 800.00	34.86	3.06
	256QAM	Low	3 800.00	34.83	3.04
23	QPSK	Low	3 800.00	35.22	3.33
	16QAM	Low	3 800.00	35.18	3.30
	64QAM	Low	3 800.00	35.22	3.33
	256QAM	Low	3 800.00	35.18	3.30



Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
24	QPSK	Low	3 800.00	35.25	3.35
	16QAM	Low	3 800.00	35.26	3.36
	64QAM	Low	3 800.00	35.30	3.39
	256QAM	Low	3 800.00	35.30	3.39
25	QPSK	Low	3 800.00	35.90	3.89
	16QAM	Low	3 800.00	35.92	3.91
	64QAM	Low	3 800.00	35.94	3.93
	256QAM	Low	3 800.00	35.89	3.89
26	QPSK	Low	3 800.00	34.87	3.07
	16QAM	Low	3 800.00	34.90	3.09
	64QAM	Low	3 800.00	34.90	3.09
	256QAM	Low	3 800.00	34.85	3.06
27	QPSK	Low	3 800.00	34.80	3.02
	16QAM	Low	3 800.00	34.75	2.98
	64QAM	Low	3 800.00	34.75	2.99
	256QAM	Low	3 800.00	34.75	2.99
28	QPSK	Low	3 800.00	35.51	3.56
	16QAM	Low	3 800.00	35.46	3.52
	64QAM	Low	3 800.00	35.53	3.58
	256QAM	Low	3 800.00	35.48	3.53
29	QPSK	Low	3 800.00	35.08	3.22
	16QAM	Low	3 800.00	35.04	3.20
	64QAM	Low	3 800.00	35.11	3.24
	256QAM	Low	3 800.00	35.10	3.24
30	QPSK	Low	3 800.00	34.85	3.06
	16QAM	Low	3 800.00	34.87	3.07
	64QAM	Low	3 800.00	34.87	3.07
	256QAM	Low	3 800.00	34.85	3.05
31	QPSK	Low	3 800.00	35.10	3.24
	16QAM	Low	3 800.00	35.07	3.21
	64QAM	Low	3 800.00	35.12	3.25
	256QAM	Low	3 800.00	35.08	3.22

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
32	QPSK	Low	3 800.00	34.91	3.10
	16QAM	Low	3 800.00	35.00	3.16
	64QAM	Low	3 800.00	35.14	3.27
	256QAM	Low	3 800.00	34.65	2.92
33	QPSK	Low	3 800.00	35.72	3.73
	16QAM	Low	3 800.00	35.80	3.80
	64QAM	Low	3 800.00	35.94	3.93
	256QAM	Low	3 800.00	35.51	3.56
34	QPSK	Low	3 800.00	34.82	3.03
	16QAM	Low	3 800.00	34.84	3.05
	64QAM	Low	3 800.00	35.04	3.19
	256QAM	Low	3 800.00	34.64	2.91
35	QPSK	Low	3 800.00	35.54	3.58
	16QAM	Low	3 800.00	35.58	3.61
	64QAM	Low	3 800.00	35.80	3.80
	256QAM	Low	3 800.00	35.36	3.43
36	QPSK	Low	3 800.00	34.90	3.09
	16QAM	Low	3 800.00	34.90	3.09
	64QAM	Low	3 800.00	35.18	3.29
	256QAM	Low	3 800.00	34.68	2.94
37	QPSK	Low	3 800.00	35.32	3.40
	16QAM	Low	3 800.00	35.38	3.45
	64QAM	Low	3 800.00	35.56	3.60
	256QAM	Low	3 800.00	35.06	3.21
38	QPSK	Low	3 800.00	35.08	3.22
	16QAM	Low	3 800.00	35.06	3.20
	64QAM	Low	3 800.00	35.28	3.37
	256QAM	Low	3 800.00	34.81	3.03
39	QPSK	Low	3 800.00	35.37	3.44
	16QAM	Low	3 800.00	35.40	3.46
	64QAM	Low	3 800.00	35.52	3.57
	256QAM	Low	3 800.00	35.15	3.28

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
40	QPSK	Low	3 800.00	35.27	3.36
	16QAM	Low	3 800.00	35.42	3.48
	64QAM	Low	3 800.00	35.57	3.60
	256QAM	Low	3 800.00	35.05	3.20
41	QPSK	Low	3 800.00	34.67	2.93
	16QAM	Low	3 800.00	34.76	2.99
	64QAM	Low	3 800.00	34.87	3.07
	256QAM	Low	3 800.00	34.48	2.80
42	QPSK	Low	3 800.00	35.67	3.69
	16QAM	Low	3 800.00	35.75	3.76
	64QAM	Low	3 800.00	35.86	3.85
	256QAM	Low	3 800.00	35.41	3.48
43	QPSK	Low	3 800.00	35.86	3.85
	16QAM	Low	3 800.00	35.93	3.92
	64QAM	Low	3 800.00	35.52	3.56
	256QAM	Low	3 800.00	35.66	3.68
44	QPSK	Low	3 800.00	35.68	3.70
	16QAM	Low	3 800.00	35.73	3.74
	64QAM	Low	3 800.00	35.32	3.40
	256QAM	Low	3 800.00	35.50	3.55
45	QPSK	Low	3 800.00	35.21	3.32
	16QAM	Low	3 800.00	35.33	3.42
	64QAM	Low	3 800.00	35.00	3.16
	256QAM	Low	3 800.00	35.01	3.17
46	QPSK	Low	3 800.00	35.53	3.57
	16QAM	Low	3 800.00	35.70	3.72
	64QAM	Low	3 800.00	35.31	3.40
	256QAM	Low	3 800.00	35.37	3.45
47	QPSK	Low	3 800.00	35.20	3.31
	16QAM	Low	3 800.00	35.27	3.36
	64QAM	Low	3 800.00	34.99	3.15
	256QAM	Low	3 800.00	35.04	3.19

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
48	QPSK	Low	3 800.00	35.33	3.41
	16QAM	Low	3 800.00	35.39	3.46
	64QAM	Low	3 800.00	35.17	3.29
	256QAM	Low	3 800.00	35.04	3.20
49	QPSK	Low	3 800.00	34.64	2.91
	16QAM	Low	3 800.00	34.74	2.98
	64QAM	Low	3 800.00	34.56	2.86
	256QAM	Low	3 800.00	34.42	2.77
50	QPSK	Low	3 800.00	35.41	3.47
	16QAM	Low	3 800.00	35.58	3.61
	64QAM	Low	3 800.00	35.29	3.38
	256QAM	Low	3 800.00	35.17	3.28
51	QPSK	Low	3 800.00	35.79	3.80
	16QAM	Low	3 800.00	35.94	3.93
	64QAM	Low	3 800.00	35.73	3.74
	256QAM	Low	3 800.00	35.61	3.64
52	QPSK	Low	3 800.00	35.46	3.52
	16QAM	Low	3 800.00	35.62	3.65
	64QAM	Low	3 800.00	35.34	3.42
	256QAM	Low	3 800.00	35.23	3.34
53	QPSK	Low	3 800.00	35.42	3.49
	16QAM	Low	3 800.00	35.61	3.64
	64QAM	Low	3 800.00	35.33	3.42
	256QAM	Low	3 800.00	35.33	3.41
54	QPSK	Low	3 800.00	34.74	2.98
	16QAM	Low	3 800.00	34.61	2.89
	64QAM	Low	3 800.00	34.64	2.91
	256QAM	Low	3 800.00	34.68	2.94
55	QPSK	Low	3 800.00	34.54	2.84
	16QAM	Low	3 800.00	34.69	2.94
	64QAM	Low	3 800.00	34.60	2.88
	256QAM	Low	3 800.00	34.63	2.91

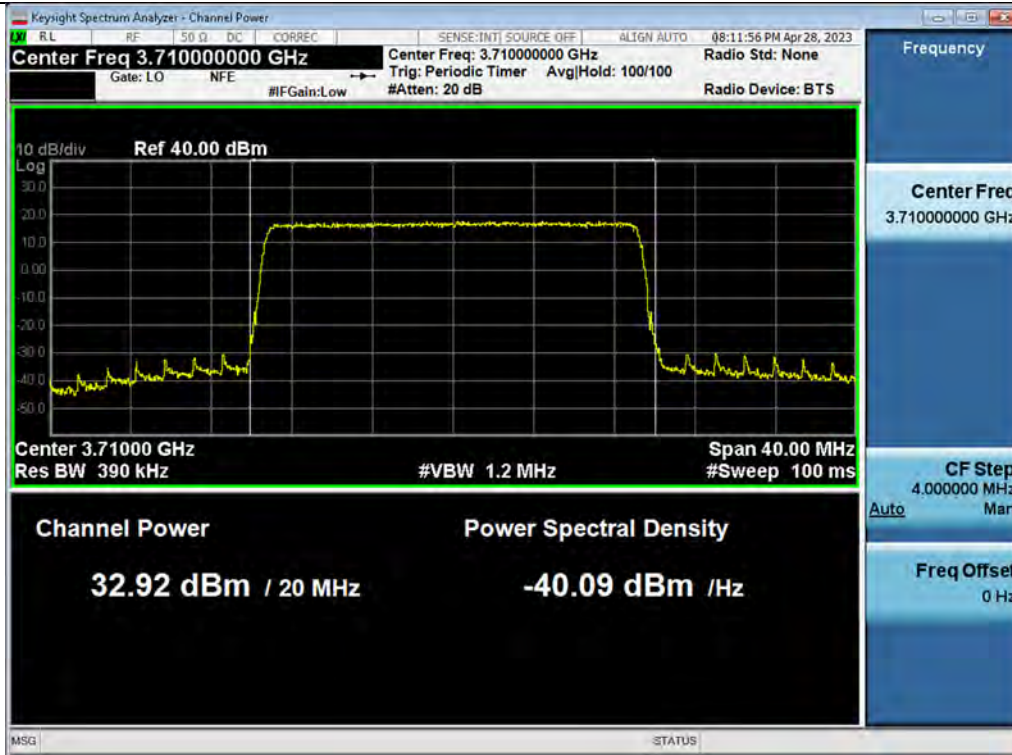
Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm)	Calculated (W)
56	QPSK	Low	3 800.00	35.19	3.31
	16QAM	Low	3 800.00	34.99	3.16
	64QAM	Low	3 800.00	35.07	3.22
	256QAM	Low	3 800.00	35.10	3.24
57	QPSK	Low	3 800.00	35.90	3.89
	16QAM	Low	3 800.00	35.66	3.68
	64QAM	Low	3 800.00	35.71	3.72
	256QAM	Low	3 800.00	35.72	3.73
58	QPSK	Low	3 800.00	34.70	2.95
	16QAM	Low	3 800.00	34.21	2.64
	64QAM	Low	3 800.00	34.58	2.87
	256QAM	Low	3 800.00	34.71	2.96
59	QPSK	Low	3 800.00	34.84	3.05
	16QAM	Low	3 800.00	34.27	2.67
	64QAM	Low	3 800.00	34.68	2.93
	256QAM	Low	3 800.00	34.71	2.96
60	QPSK	Low	3 800.00	35.47	3.52
	16QAM	Low	3 800.00	34.95	3.13
	64QAM	Low	3 800.00	35.24	3.34
	256QAM	Low	3 800.00	35.38	3.45
61	QPSK	Low	3 800.00	35.03	3.19
	16QAM	Low	3 800.00	34.49	2.81
	64QAM	Low	3 800.00	34.87	3.07
	256QAM	Low	3 800.00	34.97	3.14
62	QPSK	Low	3 800.00	34.56	2.86
	16QAM	Low	3 800.00	34.03	2.53
	64QAM	Low	3 800.00	34.38	2.74
	256QAM	Low	3 800.00	34.52	2.83
63	QPSK	Low	3 800.00	34.99	3.16
	16QAM	Low	3 800.00	34.46	2.79
	64QAM	Low	3 800.00	34.82	3.04
	256QAM	Low	3 800.00	34.92	3.10

## Sum Data of Port 0 ~ Port 63

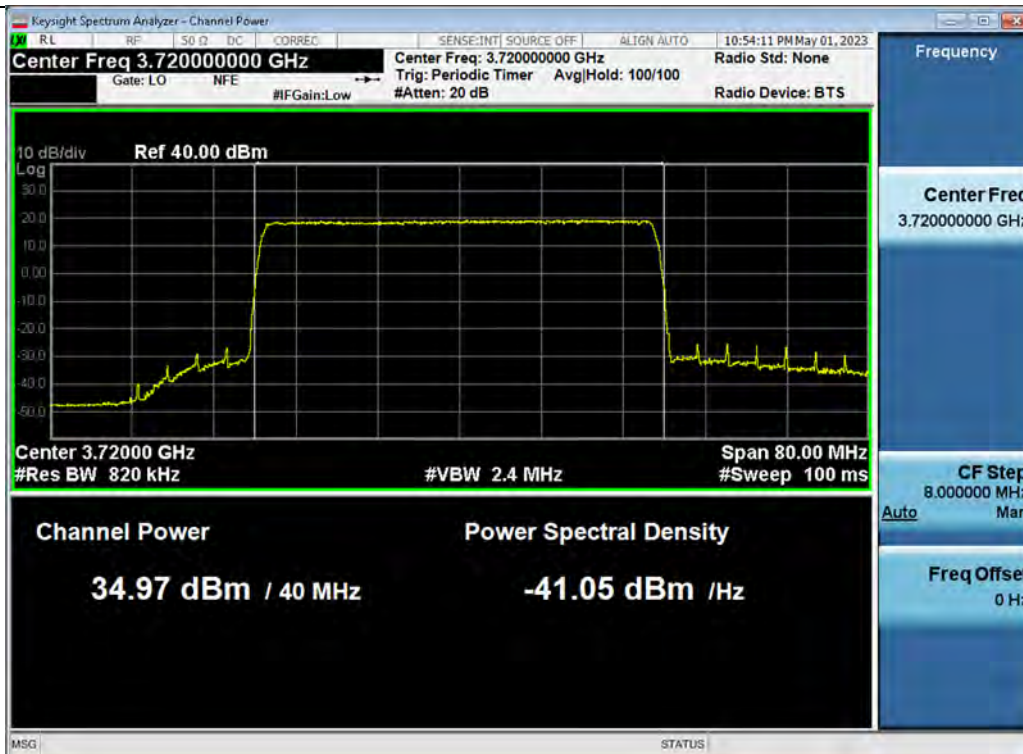
Frequency (MHz)	Output Power(Conducted)			
	QPSK	16QAM	64QAM	256QAM
	W			
3 800.00	215.80	215.35	215.18	211.33

Plot Data of RF Output Power

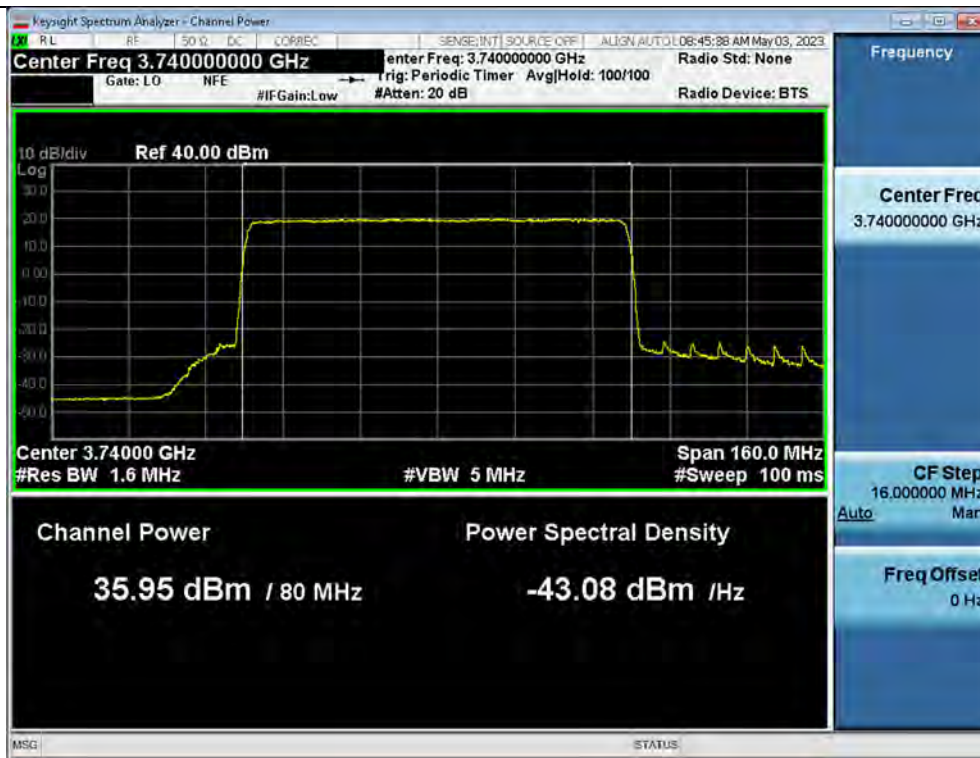
Antenna 1 / (64 Port) 5G NR n77 20 MHz [1 Carrier] / 256QAM / Low



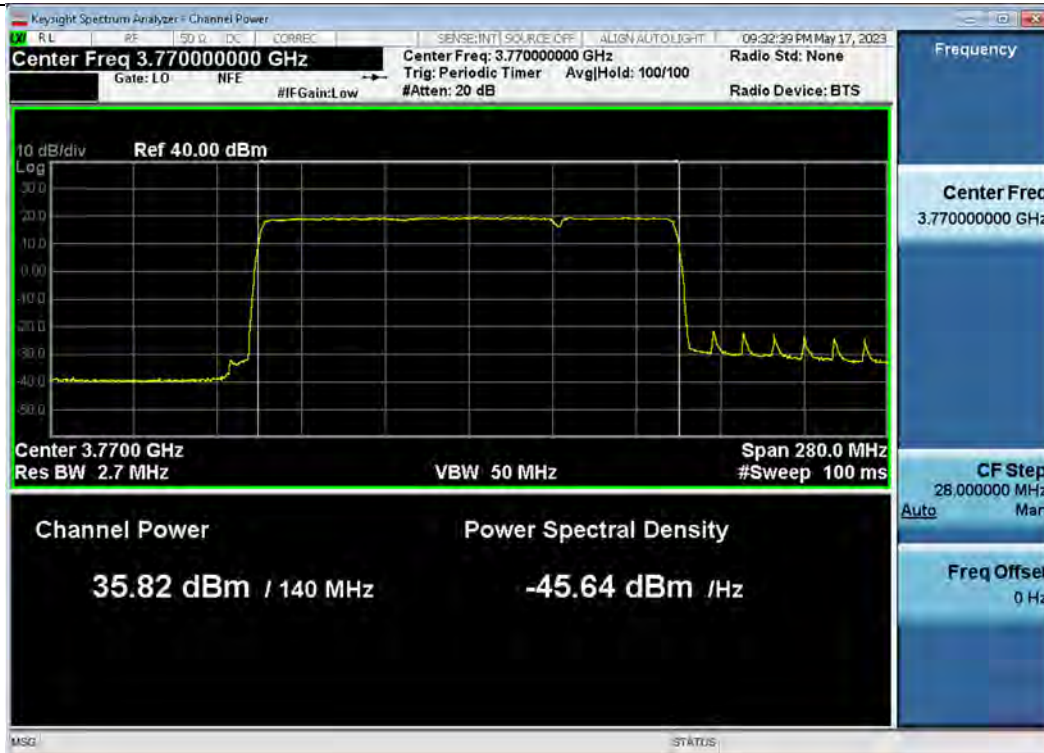
Antenna 19 / (64 Port) 5G NR n77 40 MHz [1 Carrier] / 256QAM / Low



Antenna 1 / (64 Port) 5G NR n77 80 MHz [1 Carrier] / 256QAM / Low

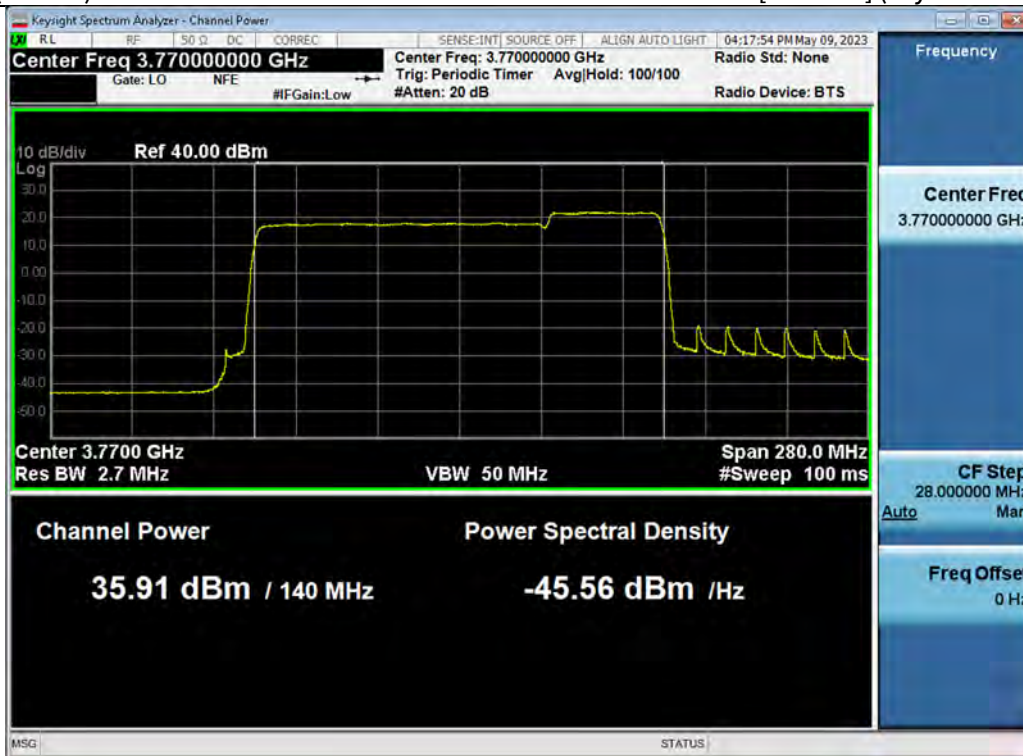


Antenna 43 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] / 64QAM / Low

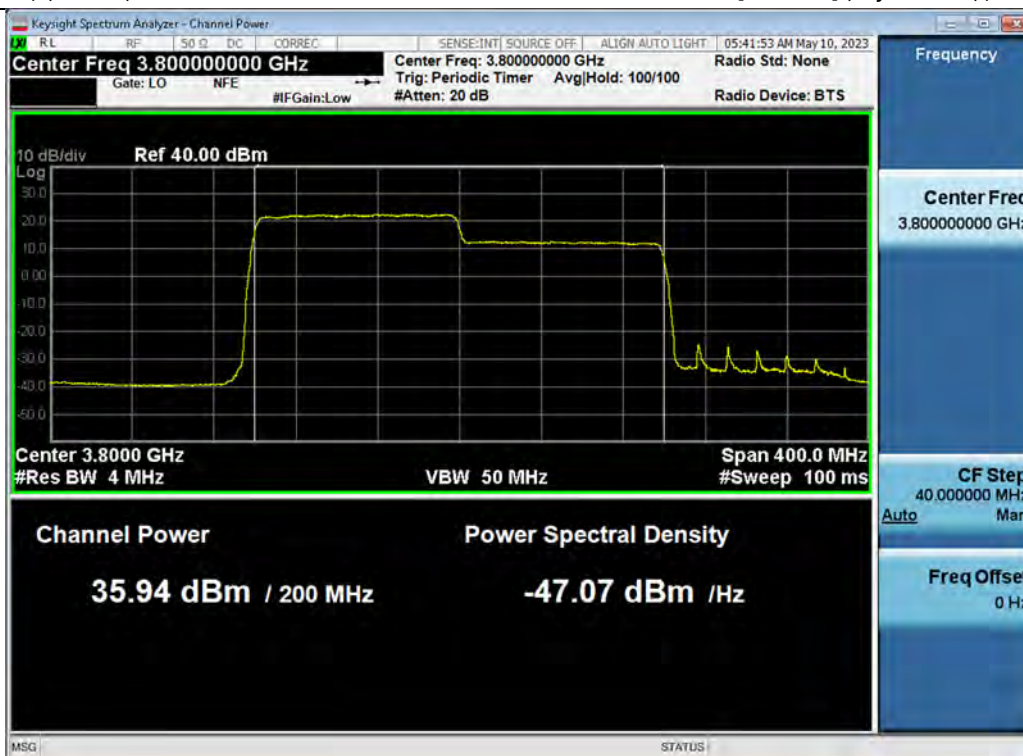




Antenna 1 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] (Asymmetric) / QPSK / Low



Antenna 25 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 100 MHz 1 Carrier [2 Carrier] (Asymmetric) / 64QAM / Low



## Tabular Data of PSD

## (64 Port) 5G NR n77 20 MHz [1 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	Low	3 710.00	19.98	25.50	45.48	35.33	1640 (3280)
		Middle	3 840.00	19.69	25.50	45.19	33.01	
		High	3 970.00	19.76	25.50	45.26	33.55	
	16QAM	Low	3 710.00	20.59	25.50	46.09	40.60	
		Middle	3 840.00	20.02	25.50	45.52	35.66	
		High	3 970.00	20.26	25.50	45.76	37.71	
	64QAM	Low	3 710.00	20.45	25.50	45.95	39.38	
		Middle	3 840.00	20.35	25.50	45.85	38.43	
		High	3 970.00	20.37	25.50	45.87	38.66	
	256QAM	Low	3 710.00	20.55	25.50	46.05	40.29	
		Middle	3 840.00	20.28	25.50	45.78	37.82	
		High	3 970.00	20.39	25.50	45.89	38.80	
1	QPSK	Low	3 710.00	20.83	25.50	46.33	42.99	
		Middle	3 840.00	20.40	25.50	45.90	38.92	
		High	3 970.00	20.33	25.50	45.83	38.29	
	16QAM	Low	3 710.00	21.38	25.50	46.88	48.79	
		Middle	3 840.00	20.90	25.50	46.40	43.70	
		High	3 970.00	20.99	25.50	46.49	44.56	
	64QAM	Low	3 710.00	21.35	25.50	46.85	48.39	
		Middle	3 840.00	20.98	25.50	46.48	44.50	
		High	3 970.00	21.01	25.50	46.51	44.75	
	256QAM	Low	3 710.00	21.24	25.50	46.74	47.17	
		Middle	3 840.00	20.90	25.50	46.40	43.63	
		High	3 970.00	21.04	25.50	46.54	45.09	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
2	QPSK	Low	3 710.00	19.98	25.50	45.48	35.33	
		Middle	3 840.00	19.78	25.50	45.28	33.72	
		High	3 970.00	19.74	25.50	45.24	33.40	
	16QAM	Low	3 710.00	20.52	25.50	46.02	39.99	
		Middle	3 840.00	20.54	25.50	46.04	40.19	
		High	3 970.00	20.24	25.50	45.74	37.50	
	64QAM	Low	3 710.00	20.50	25.50	46.00	39.79	
		Middle	3 840.00	20.50	25.50	46.00	39.78	
		High	3 970.00	20.50	25.50	46.00	39.84	
	256QAM	Low	3 710.00	20.31	25.50	45.81	38.11	
		Middle	3 840.00	20.44	25.50	45.94	39.28	
		High	3 970.00	20.25	25.50	45.75	37.58	
3	QPSK	Low	3 710.00	20.35	25.50	45.85	38.49	1640 (3280)
		Middle	3 840.00	20.37	25.50	45.87	38.68	
		High	3 970.00	20.25	25.50	45.75	37.59	
	16QAM	Low	3 710.00	20.93	25.50	46.43	43.95	
		Middle	3 840.00	20.83	25.50	46.33	42.91	
		High	3 970.00	20.70	25.50	46.20	41.64	
	64QAM	Low	3 710.00	20.82	25.50	46.32	42.86	
		Middle	3 840.00	20.87	25.50	46.37	43.35	
		High	3 970.00	20.70	25.50	46.20	41.70	
	256QAM	Low	3 710.00	21.00	25.50	46.50	44.64	
		Middle	3 840.00	20.76	25.50	46.26	42.28	
		High	3 970.00	20.70	25.50	46.20	41.65	
4	QPSK	Low	3 710.00	20.08	25.50	45.58	36.15	
		Middle	3 840.00	19.96	25.50	45.46	35.13	
		High	3 970.00	19.96	25.50	45.46	35.12	
	16QAM	Low	3 710.00	20.66	25.50	46.16	41.29	
		Middle	3 840.00	20.39	25.50	45.89	38.81	
		High	3 970.00	20.48	25.50	45.98	39.65	
	64QAM	Low	3 710.00	20.60	25.50	46.10	40.74	
		Middle	3 840.00	20.39	25.50	45.89	38.83	
		High	3 970.00	20.61	25.50	46.11	40.84	
	256QAM	Low	3 710.00	20.56	25.50	46.06	40.32	
		Middle	3 840.00	20.35	25.50	45.85	38.42	
		High	3 970.00	20.53	25.50	46.03	40.13	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
5	QPSK	Low	3 710.00	20.50	25.50	46.00	39.84	1640 (3280)
		Middle	3 840.00	20.08	25.50	45.58	36.11	
		High	3 970.00	20.18	25.50	45.68	36.95	
	16QAM	Low	3 710.00	21.00	25.50	46.50	44.65	
		Middle	3 840.00	20.60	25.50	46.10	40.72	
		High	3 970.00	20.70	25.50	46.20	41.72	
	64QAM	Low	3 710.00	20.99	25.50	46.49	44.56	
		Middle	3 840.00	20.69	25.50	46.19	41.61	
		High	3 970.00	20.65	25.50	46.15	41.23	
	256QAM	Low	3 710.00	20.95	25.50	46.45	44.17	
		Middle	3 840.00	20.51	25.50	46.01	39.92	
		High	3 970.00	20.80	25.50	46.30	42.62	
6	QPSK	Low	3 710.00	20.14	25.50	45.64	36.63	
		Middle	3 840.00	20.06	25.50	45.56	35.98	
		High	3 970.00	19.89	25.50	45.39	34.60	
	16QAM	Low	3 710.00	20.66	25.50	46.16	41.35	
		Middle	3 840.00	20.44	25.50	45.94	39.28	
		High	3 970.00	20.31	25.50	45.81	38.10	
	64QAM	Low	3 710.00	20.61	25.50	46.11	40.85	
		Middle	3 840.00	20.35	25.50	45.85	38.45	
		High	3 970.00	20.44	25.50	45.94	39.22	
	256QAM	Low	3 710.00	20.59	25.50	46.09	40.62	
		Middle	3 840.00	20.28	25.50	45.78	37.85	
		High	3 970.00	20.29	25.50	45.79	37.91	
7	QPSK	Low	3 710.00	20.09	25.50	45.59	36.21	
		Middle	3 840.00	19.83	25.50	45.33	34.09	
		High	3 970.00	20.11	25.50	45.61	36.40	
	16QAM	Low	3 710.00	20.72	25.50	46.22	41.91	
		Middle	3 840.00	20.59	25.50	46.09	40.68	
		High	3 970.00	20.47	25.50	45.97	39.50	
	64QAM	Low	3 710.00	20.59	25.50	46.09	40.65	
		Middle	3 840.00	20.64	25.50	46.14	41.14	
		High	3 970.00	20.65	25.50	46.15	41.24	
	256QAM	Low	3 710.00	20.44	25.50	45.94	39.26	
		Middle	3 840.00	20.51	25.50	46.01	39.91	
		High	3 970.00	20.45	25.50	45.95	39.37	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
8	QPSK	Low	3 710.00	20.05	25.50	45.55	35.93	
		Middle	3 840.00	20.06	25.50	45.56	35.97	
		High	3 970.00	19.59	25.50	45.09	32.32	
	16QAM	Low	3 710.00	20.47	25.50	45.97	39.55	
		Middle	3 840.00	20.27	25.50	45.77	37.74	
		High	3 970.00	20.08	25.50	45.58	36.16	
	64QAM	Low	3 710.00	20.49	25.50	45.99	39.73	
		Middle	3 840.00	20.11	25.50	45.61	36.38	
		High	3 970.00	19.92	25.50	45.42	34.87	
	256QAM	Low	3 710.00	20.29	25.50	45.79	37.96	
		Middle	3 840.00	19.96	25.50	45.46	35.12	
		High	3 970.00	19.99	25.50	45.49	35.39	
9	QPSK	Low	3 710.00	19.93	25.50	45.43	34.92	1640 (3280)
		Middle	3 840.00	19.58	25.50	45.08	32.22	
		High	3 970.00	19.19	25.50	44.69	29.46	
	16QAM	Low	3 710.00	20.26	25.50	45.76	37.70	
		Middle	3 840.00	19.93	25.50	45.43	34.89	
		High	3 970.00	19.57	25.50	45.07	32.15	
	64QAM	Low	3 710.00	20.14	25.50	45.64	36.68	
		Middle	3 840.00	19.81	25.50	45.31	33.97	
		High	3 970.00	19.41	25.50	44.91	30.94	
	256QAM	Low	3 710.00	20.08	25.50	45.58	36.13	
		Middle	3 840.00	19.66	25.50	45.16	32.80	
		High	3 970.00	19.42	25.50	44.92	31.08	
10	QPSK	Low	3 710.00	20.16	25.50	45.66	36.81	
		Middle	3 840.00	20.15	25.50	45.65	36.75	
		High	3 970.00	19.96	25.50	45.46	35.14	
	16QAM	Low	3 710.00	20.75	25.50	46.25	42.13	
		Middle	3 840.00	20.58	25.50	46.08	40.59	
		High	3 970.00	20.39	25.50	45.89	38.84	
	64QAM	Low	3 710.00	20.67	25.50	46.17	41.38	
		Middle	3 840.00	20.45	25.50	45.95	39.32	
		High	3 970.00	20.34	25.50	45.84	38.33	
	256QAM	Low	3 710.00	20.65	25.50	46.15	41.17	
		Middle	3 840.00	20.31	25.50	45.81	38.13	
		High	3 970.00	20.36	25.50	45.86	38.51	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
11	QPSK	Low	3 710.00	20.90	25.50	46.40	43.68	
		Middle	3 840.00	20.28	25.50	45.78	37.83	
		High	3 970.00	20.66	25.50	46.16	41.34	
	16QAM	Low	3 710.00	21.26	25.50	46.76	47.41	
		Middle	3 840.00	20.97	25.50	46.47	44.32	
		High	3 970.00	21.03	25.50	46.53	44.97	
	64QAM	Low	3 710.00	21.20	25.50	46.70	46.73	
		Middle	3 840.00	20.81	25.50	46.31	42.74	
		High	3 970.00	21.09	25.50	46.59	45.57	
	256QAM	Low	3 710.00	21.10	25.50	46.60	45.72	
		Middle	3 840.00	20.74	25.50	46.24	42.07	
		High	3 970.00	20.94	25.50	46.44	44.02	
12	QPSK	Low	3 710.00	20.55	25.50	46.05	40.29	1640 (3280)
		Middle	3 840.00	20.34	25.50	45.84	38.33	
		High	3 970.00	20.12	25.50	45.62	36.48	
	16QAM	Low	3 710.00	20.92	25.50	46.42	43.89	
		Middle	3 840.00	20.78	25.50	46.28	42.46	
		High	3 970.00	20.27	25.50	45.77	37.75	
	64QAM	Low	3 710.00	20.96	25.50	46.46	44.24	
		Middle	3 840.00	20.65	25.50	46.15	41.24	
		High	3 970.00	20.33	25.50	45.83	38.32	
	256QAM	Low	3 710.00	21.03	25.50	46.53	44.93	
		Middle	3 840.00	20.51	25.50	46.01	39.87	
		High	3 970.00	20.33	25.50	45.83	38.27	
13	QPSK	Low	3 710.00	20.11	25.50	45.61	36.42	
		Middle	3 840.00	19.85	25.50	45.35	34.25	
		High	3 970.00	19.87	25.50	45.37	34.46	
	16QAM	Low	3 710.00	20.51	25.50	46.01	39.86	
		Middle	3 840.00	20.49	25.50	45.99	39.73	
		High	3 970.00	20.08	25.50	45.58	36.16	
	64QAM	Low	3 710.00	20.44	25.50	45.94	39.31	
		Middle	3 840.00	20.08	25.50	45.58	36.15	
		High	3 970.00	19.98	25.50	45.48	35.34	
	256QAM	Low	3 710.00	20.32	25.50	45.82	38.23	
		Middle	3 840.00	20.06	25.50	45.56	35.99	
		High	3 970.00	20.13	25.50	45.63	36.56	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
14	QPSK	Low	3 710.00	20.63	25.50	46.13	41.05	1640 (3280)
		Middle	3 840.00	20.43	25.50	45.93	39.14	
		High	3 970.00	20.32	25.50	45.82	38.16	
	16QAM	Low	3 710.00	21.04	25.50	46.54	45.08	
		Middle	3 840.00	21.14	25.50	46.64	46.09	
		High	3 970.00	20.65	25.50	46.15	41.21	
	64QAM	Low	3 710.00	20.98	25.50	46.48	44.46	
		Middle	3 840.00	20.69	25.50	46.19	41.60	
		High	3 970.00	20.82	25.50	46.32	42.82	
	256QAM	Low	3 710.00	20.88	25.50	46.38	43.47	
		Middle	3 840.00	20.74	25.50	46.24	42.08	
		High	3 970.00	20.68	25.50	46.18	41.51	
15	QPSK	Low	3 710.00	20.21	25.50	45.71	37.27	
		Middle	3 840.00	20.02	25.50	45.52	35.66	
		High	3 970.00	19.78	25.50	45.28	33.72	
	16QAM	Low	3 710.00	20.62	25.50	46.12	40.90	
		Middle	3 840.00	20.80	25.50	46.30	42.62	
		High	3 970.00	19.98	25.50	45.48	35.29	
	64QAM	Low	3 710.00	20.48	25.50	45.98	39.61	
		Middle	3 840.00	20.55	25.50	46.05	40.28	
		High	3 970.00	20.01	25.50	45.51	35.57	
	256QAM	Low	3 710.00	20.54	25.50	46.04	40.15	
		Middle	3 840.00	20.39	25.50	45.89	38.79	
		High	3 970.00	20.11	25.50	45.61	36.42	
16	QPSK	Low	3 710.00	20.13	25.50	45.63	36.54	
		Middle	3 840.00	19.87	25.50	45.37	34.44	
		High	3 970.00	20.64	25.50	46.14	41.10	
	16QAM	Low	3 710.00	20.61	25.50	46.11	40.85	
		Middle	3 840.00	20.85	25.50	46.35	43.18	
		High	3 970.00	20.93	25.50	46.43	43.95	
	64QAM	Low	3 710.00	20.45	25.50	45.95	39.35	
		Middle	3 840.00	20.73	25.50	46.23	42.00	
		High	3 970.00	20.96	25.50	46.46	44.24	
	256QAM	Low	3 710.00	20.28	25.50	45.78	37.81	
		Middle	3 840.00	20.72	25.50	46.22	41.85	
		High	3 970.00	21.08	25.50	46.58	45.53	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
17	QPSK	Low	3 710.00	20.05	25.50	45.55	35.92	
		Middle	3 840.00	19.56	25.50	45.06	32.07	
		High	3 970.00	19.82	25.50	45.32	34.01	
	16QAM	Low	3 710.00	20.48	25.50	45.98	39.60	
		Middle	3 840.00	20.37	25.50	45.87	38.64	
		High	3 970.00	20.28	25.50	45.78	37.86	
	64QAM	Low	3 710.00	20.32	25.50	45.82	38.24	
		Middle	3 840.00	20.33	25.50	45.83	38.27	
		High	3 970.00	20.25	25.50	45.75	37.62	
	256QAM	Low	3 710.00	20.29	25.50	45.79	37.95	
		Middle	3 840.00	20.15	25.50	45.65	36.73	
		High	3 970.00	20.24	25.50	45.74	37.50	
18	QPSK	Low	3 710.00	20.34	25.50	45.84	38.34	1640 (3280)
		Middle	3 840.00	20.13	25.50	45.63	36.52	
		High	3 970.00	20.57	25.50	46.07	40.49	
	16QAM	Low	3 710.00	20.66	25.50	46.16	41.32	
		Middle	3 840.00	21.19	25.50	46.69	46.71	
		High	3 970.00	20.88	25.50	46.38	43.45	
	64QAM	Low	3 710.00	20.68	25.50	46.18	41.48	
		Middle	3 840.00	21.11	25.50	46.61	45.83	
		High	3 970.00	20.95	25.50	46.45	44.20	
	256QAM	Low	3 710.00	20.65	25.50	46.15	41.20	
		Middle	3 840.00	20.98	25.50	46.48	44.44	
		High	3 970.00	20.81	25.50	46.31	42.79	
19	QPSK	Low	3 710.00	20.52	25.50	46.02	40.01	
		Middle	3 840.00	20.31	25.50	45.81	38.08	
		High	3 970.00	21.02	25.50	46.52	44.90	
	16QAM	Low	3 710.00	20.87	25.50	46.37	43.30	
		Middle	3 840.00	21.07	25.50	46.57	45.39	
		High	3 970.00	21.09	25.50	46.59	45.56	
	64QAM	Low	3 710.00	20.77	25.50	46.27	42.36	
		Middle	3 840.00	21.30	25.50	46.80	47.85	
		High	3 970.00	21.28	25.50	46.78	47.63	
	256QAM	Low	3 710.00	20.83	25.50	46.33	42.99	
		Middle	3 840.00	20.93	25.50	46.43	43.99	
		High	3 970.00	21.22	25.50	46.72	46.96	



Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
20	QPSK	Low	3 710.00	20.22	25.50	45.72	37.31	1640 (3280)
		Middle	3 840.00	20.00	25.50	45.50	35.47	
		High	3 970.00	20.60	25.50	46.10	40.73	
	16QAM	Low	3 710.00	20.48	25.50	45.98	39.62	
		Middle	3 840.00	20.78	25.50	46.28	42.42	
		High	3 970.00	20.78	25.50	46.28	42.43	
	64QAM	Low	3 710.00	20.58	25.50	46.08	40.58	
		Middle	3 840.00	21.05	25.50	46.55	45.18	
		High	3 970.00	20.95	25.50	46.45	44.13	
	256QAM	Low	3 710.00	20.54	25.50	46.04	40.19	
		Middle	3 840.00	20.84	25.50	46.34	43.10	
		High	3 970.00	20.70	25.50	46.20	41.68	
21	QPSK	Low	3 710.00	19.95	25.50	45.45	35.05	
		Middle	3 840.00	19.94	25.50	45.44	35.00	
		High	3 970.00	20.72	25.50	46.22	41.88	
	16QAM	Low	3 710.00	20.30	25.50	45.80	37.99	
		Middle	3 840.00	20.64	25.50	46.14	41.07	
		High	3 970.00	20.94	25.50	46.44	44.06	
	64QAM	Low	3 710.00	20.36	25.50	45.86	38.53	
		Middle	3 840.00	20.74	25.50	46.24	42.07	
		High	3 970.00	21.03	25.50	46.53	44.94	
	256QAM	Low	3 710.00	20.29	25.50	45.79	37.94	
		Middle	3 840.00	20.60	25.50	46.10	40.69	
		High	3 970.00	20.92	25.50	46.42	43.81	
22	QPSK	Low	3 710.00	20.18	25.50	45.68	36.94	
		Middle	3 840.00	19.92	25.50	45.42	34.85	
		High	3 970.00	19.78	25.50	45.28	33.73	
	16QAM	Low	3 710.00	20.38	25.50	45.88	38.69	
		Middle	3 840.00	20.39	25.50	45.89	38.78	
		High	3 970.00	19.94	25.50	45.44	35.02	
	64QAM	Low	3 710.00	20.44	25.50	45.94	39.26	
		Middle	3 840.00	20.56	25.50	46.06	40.34	
		High	3 970.00	20.10	25.50	45.60	36.28	
	256QAM	Low	3 710.00	20.36	25.50	45.86	38.54	
		Middle	3 840.00	20.34	25.50	45.84	38.34	
		High	3 970.00	19.84	25.50	45.34	34.22	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
23	QPSK	Low	3 710.00	20.26	25.50	45.76	37.70	1640 (3280)
		Middle	3 840.00	19.79	25.50	45.29	33.79	
		High	3 970.00	20.31	25.50	45.81	38.08	
	16QAM	Low	3 710.00	20.39	25.50	45.89	38.81	
		Middle	3 840.00	20.48	25.50	45.98	39.65	
		High	3 970.00	20.53	25.50	46.03	40.04	
	64QAM	Low	3 710.00	20.50	25.50	46.00	39.84	
		Middle	3 840.00	20.58	25.50	46.08	40.55	
		High	3 970.00	20.60	25.50	46.10	40.77	
	256QAM	Low	3 710.00	20.35	25.50	45.85	38.45	
		Middle	3 840.00	20.43	25.50	45.93	39.19	
		High	3 970.00	20.51	25.50	46.01	39.92	
24	QPSK	Low	3 710.00	20.33	25.50	45.83	38.31	1640 (3280)
		Middle	3 840.00	19.91	25.50	45.41	34.73	
		High	3 970.00	20.03	25.50	45.53	35.72	
	16QAM	Low	3 710.00	20.76	25.50	46.26	42.26	
		Middle	3 840.00	20.16	25.50	45.66	36.81	
		High	3 970.00	20.20	25.50	45.70	37.19	
	64QAM	Low	3 710.00	20.70	25.50	46.20	41.68	
		Middle	3 840.00	20.21	25.50	45.71	37.25	
		High	3 970.00	20.20	25.50	45.70	37.17	
	256QAM	Low	3 710.00	20.71	25.50	46.21	41.76	
		Middle	3 840.00	20.07	25.50	45.57	36.06	
		High	3 970.00	20.08	25.50	45.58	36.18	
25	QPSK	Low	3 710.00	20.44	25.50	45.94	39.23	1640 (3280)
		Middle	3 840.00	19.99	25.50	45.49	35.40	
		High	3 970.00	20.44	25.50	45.94	39.26	
	16QAM	Low	3 710.00	20.80	25.50	46.30	42.61	
		Middle	3 840.00	20.53	25.50	46.03	40.05	
		High	3 970.00	20.80	25.50	46.30	42.65	
	64QAM	Low	3 710.00	20.73	25.50	46.23	42.00	
		Middle	3 840.00	20.57	25.50	46.07	40.44	
		High	3 970.00	20.72	25.50	46.22	41.84	
	256QAM	Low	3 710.00	20.78	25.50	46.28	42.50	
		Middle	3 840.00	20.43	25.50	45.93	39.21	
		High	3 970.00	20.72	25.50	46.22	41.86	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
26	QPSK	Low	3 710.00	20.48	25.50	45.98	39.62	
		Middle	3 840.00	19.63	25.50	45.13	32.56	
		High	3 970.00	19.32	25.50	44.82	30.31	
	16QAM	Low	3 710.00	20.68	25.50	46.18	41.49	
		Middle	3 840.00	19.82	25.50	45.32	34.04	
		High	3 970.00	19.66	25.50	45.16	32.80	
	64QAM	Low	3 710.00	20.49	25.50	45.99	39.73	
		Middle	3 840.00	19.89	25.50	45.39	34.56	
		High	3 970.00	19.77	25.50	45.27	33.67	
	256QAM	Low	3 710.00	20.43	25.50	45.93	39.16	
		Middle	3 840.00	19.76	25.50	45.26	33.61	
		High	3 970.00	19.62	25.50	45.12	32.54	
27	QPSK	Low	3 710.00	20.31	25.50	45.81	38.13	1640 (3280)
		Middle	3 840.00	19.44	25.50	44.94	31.19	
		High	3 970.00	19.33	25.50	44.83	30.44	
	16QAM	Low	3 710.00	20.61	25.50	46.11	40.84	
		Middle	3 840.00	19.59	25.50	45.09	32.28	
		High	3 970.00	19.51	25.50	45.01	31.71	
	64QAM	Low	3 710.00	20.57	25.50	46.07	40.50	
		Middle	3 840.00	19.65	25.50	45.15	32.74	
		High	3 970.00	19.65	25.50	45.15	32.74	
	256QAM	Low	3 710.00	20.59	25.50	46.09	40.61	
		Middle	3 840.00	19.52	25.50	45.02	31.74	
		High	3 970.00	19.59	25.50	45.09	32.30	
28	QPSK	Low	3 710.00	20.48	25.50	45.98	39.63	
		Middle	3 840.00	19.87	25.50	45.37	34.45	
		High	3 970.00	19.76	25.50	45.26	33.59	
	16QAM	Low	3 710.00	20.77	25.50	46.27	42.39	
		Middle	3 840.00	20.20	25.50	45.70	37.14	
		High	3 970.00	19.89	25.50	45.39	34.59	
	64QAM	Low	3 710.00	20.71	25.50	46.21	41.81	
		Middle	3 840.00	20.19	25.50	45.69	37.11	
		High	3 970.00	20.10	25.50	45.60	36.32	
	256QAM	Low	3 710.00	20.76	25.50	46.26	42.23	
		Middle	3 840.00	20.18	25.50	45.68	36.97	
		High	3 970.00	19.97	25.50	45.47	35.24	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
29	QPSK	Low	3 710.00	20.29	25.50	45.79	37.97	1640 (3280)
		Middle	3 840.00	19.31	25.50	44.81	30.28	
		High	3 970.00	19.38	25.50	44.88	30.78	
	16QAM	Low	3 710.00	20.34	25.50	45.84	38.36	
		Middle	3 840.00	19.53	25.50	45.03	31.87	
		High	3 970.00	19.67	25.50	45.17	32.89	
	64QAM	Low	3 710.00	20.43	25.50	45.93	39.15	
		Middle	3 840.00	19.86	25.50	45.36	34.38	
		High	3 970.00	19.77	25.50	45.27	33.65	
	256QAM	Low	3 710.00	20.34	25.50	45.84	38.39	
		Middle	3 840.00	19.50	25.50	45.00	31.62	
		High	3 970.00	19.65	25.50	45.15	32.73	
30	QPSK	Low	3 710.00	20.16	25.50	45.66	36.83	1640 (3280)
		Middle	3 840.00	19.85	25.50	45.35	34.25	
		High	3 970.00	19.32	25.50	44.82	30.35	
	16QAM	Low	3 710.00	20.44	25.50	45.94	39.23	
		Middle	3 840.00	19.61	25.50	45.11	32.41	
		High	3 970.00	19.48	25.50	44.98	31.44	
	64QAM	Low	3 710.00	20.31	25.50	45.81	38.09	
		Middle	3 840.00	19.76	25.50	45.26	33.55	
		High	3 970.00	19.73	25.50	45.23	33.34	
	256QAM	Low	3 710.00	20.22	25.50	45.72	37.31	
		Middle	3 840.00	19.62	25.50	45.12	32.53	
		High	3 970.00	19.51	25.50	45.01	31.70	
31	QPSK	Low	3 710.00	19.79	25.50	45.29	33.82	1640 (3280)
		Middle	3 840.00	20.13	25.50	45.63	36.54	
		High	3 970.00	19.57	25.50	45.07	32.16	
	16QAM	Low	3 710.00	20.12	25.50	45.62	36.44	
		Middle	3 840.00	20.30	25.50	45.80	38.00	
		High	3 970.00	19.77	25.50	45.27	33.67	
	64QAM	Low	3 710.00	20.00	25.50	45.50	35.50	
		Middle	3 840.00	20.47	25.50	45.97	39.50	
		High	3 970.00	19.93	25.50	45.43	34.89	
	256QAM	Low	3 710.00	20.07	25.50	45.57	36.09	
		Middle	3 840.00	20.30	25.50	45.80	38.01	
		High	3 970.00	19.77	25.50	45.27	33.63	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
32	QPSK	Low	3 710.00	20.27	25.50	45.77	37.75	
		Middle	3 840.00	19.83	25.50	45.33	34.09	
		High	3 970.00	19.64	25.50	45.14	32.68	
	16QAM	Low	3 710.00	20.53	25.50	46.03	40.05	
		Middle	3 840.00	20.20	25.50	45.70	37.18	
		High	3 970.00	20.26	25.50	45.76	37.70	
	64QAM	Low	3 710.00	20.70	25.50	46.20	41.70	
		Middle	3 840.00	20.07	25.50	45.57	36.09	
		High	3 970.00	20.20	25.50	45.70	37.13	
	256QAM	Low	3 710.00	20.44	25.50	45.94	39.26	
		Middle	3 840.00	20.09	25.50	45.59	36.21	
		High	3 970.00	20.23	25.50	45.73	37.42	
33	QPSK	Low	3 710.00	20.87	25.50	46.37	43.38	1640 (3280)
		Middle	3 840.00	20.16	25.50	45.66	36.83	
		High	3 970.00	20.26	25.50	45.76	37.67	
	16QAM	Low	3 710.00	21.12	25.50	46.62	45.88	
		Middle	3 840.00	20.54	25.50	46.04	40.22	
		High	3 970.00	20.62	25.50	46.12	40.92	
	64QAM	Low	3 710.00	21.13	25.50	46.63	46.05	
		Middle	3 840.00	20.45	25.50	45.95	39.33	
		High	3 970.00	20.60	25.50	46.10	40.78	
	256QAM	Low	3 710.00	20.95	25.50	46.45	44.13	
		Middle	3 840.00	20.46	25.50	45.96	39.47	
		High	3 970.00	20.61	25.50	46.11	40.87	
34	QPSK	Low	3 710.00	20.27	25.50	45.77	37.73	
		Middle	3 840.00	19.80	25.50	45.30	33.88	
		High	3 970.00	19.86	25.50	45.36	34.34	
	16QAM	Low	3 710.00	20.68	25.50	46.18	41.48	
		Middle	3 840.00	20.18	25.50	45.68	37.00	
		High	3 970.00	20.16	25.50	45.66	36.82	
	64QAM	Low	3 710.00	20.54	25.50	46.04	40.15	
		Middle	3 840.00	20.12	25.50	45.62	36.50	
		High	3 970.00	20.29	25.50	45.79	37.92	
	256QAM	Low	3 710.00	20.39	25.50	45.89	38.84	
		Middle	3 840.00	20.02	25.50	45.52	35.63	
		High	3 970.00	20.06	25.50	45.56	35.96	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
35	QPSK	Low	3 710.00	20.50	25.50	46.00	39.81	
		Middle	3 840.00	20.19	25.50	45.69	37.07	
		High	3 970.00	20.21	25.50	45.71	37.20	
	16QAM	Low	3 710.00	20.86	25.50	46.36	43.24	
		Middle	3 840.00	20.54	25.50	46.04	40.14	
		High	3 970.00	20.54	25.50	46.04	40.14	
	64QAM	Low	3 710.00	20.87	25.50	46.37	43.38	
		Middle	3 840.00	20.47	25.50	45.97	39.56	
		High	3 970.00	20.49	25.50	45.99	39.74	
	256QAM	Low	3 710.00	20.70	25.50	46.20	41.65	
		Middle	3 840.00	20.31	25.50	45.81	38.09	
		High	3 970.00	20.42	25.50	45.92	39.07	
36	QPSK	Low	3 710.00	20.16	25.50	45.66	36.85	1640 (3280)
		Middle	3 840.00	19.65	25.50	45.15	32.73	
		High	3 970.00	19.83	25.50	45.33	34.09	
	16QAM	Low	3 710.00	20.38	25.50	45.88	38.76	
		Middle	3 840.00	19.91	25.50	45.41	34.75	
		High	3 970.00	20.06	25.50	45.56	35.98	
	64QAM	Low	3 710.00	20.35	25.50	45.85	38.49	
		Middle	3 840.00	19.78	25.50	45.28	33.76	
		High	3 970.00	20.12	25.50	45.62	36.51	
	256QAM	Low	3 710.00	20.24	25.50	45.74	37.53	
		Middle	3 840.00	19.65	25.50	45.15	32.76	
		High	3 970.00	19.99	25.50	45.49	35.38	
37	QPSK	Low	3 710.00	20.44	25.50	45.94	39.27	
		Middle	3 840.00	19.99	25.50	45.49	35.38	
		High	3 970.00	19.93	25.50	45.43	34.89	
	16QAM	Low	3 710.00	20.78	25.50	46.28	42.49	
		Middle	3 840.00	20.27	25.50	45.77	37.79	
		High	3 970.00	20.39	25.50	45.89	38.82	
	64QAM	Low	3 710.00	20.79	25.50	46.29	42.57	
		Middle	3 840.00	20.29	25.50	45.79	37.91	
		High	3 970.00	20.31	25.50	45.81	38.10	
	256QAM	Low	3 710.00	20.74	25.50	46.24	42.10	
		Middle	3 840.00	20.17	25.50	45.67	36.90	
		High	3 970.00	20.18	25.50	45.68	36.95	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
38	QPSK	Low	3 710.00	20.18	25.50	45.68	37.01	
		Middle	3 840.00	19.97	25.50	45.47	35.21	
		High	3 970.00	19.71	25.50	45.21	33.16	
	16QAM	Low	3 710.00	20.48	25.50	45.98	39.65	
		Middle	3 840.00	20.29	25.50	45.79	37.90	
		High	3 970.00	20.02	25.50	45.52	35.63	
	64QAM	Low	3 710.00	20.48	25.50	45.98	39.63	
		Middle	3 840.00	20.17	25.50	45.67	36.89	
		High	3 970.00	20.05	25.50	45.55	35.91	
	256QAM	Low	3 710.00	20.53	25.50	46.03	40.08	
		Middle	3 840.00	20.07	25.50	45.57	36.02	
		High	3 970.00	19.99	25.50	45.49	35.39	
39	QPSK	Low	3 710.00	20.55	25.50	46.05	40.30	1640 (3280)
		Middle	3 840.00	20.18	25.50	45.68	36.96	
		High	3 970.00	19.99	25.50	45.49	35.42	
	16QAM	Low	3 710.00	20.76	25.50	46.26	42.29	
		Middle	3 840.00	20.65	25.50	46.15	41.17	
		High	3 970.00	20.20	25.50	45.70	37.13	
	64QAM	Low	3 710.00	20.81	25.50	46.31	42.77	
		Middle	3 840.00	20.59	25.50	46.09	40.68	
		High	3 970.00	20.30	25.50	45.80	38.05	
	256QAM	Low	3 710.00	20.65	25.50	46.15	41.20	
		Middle	3 840.00	20.40	25.50	45.90	38.88	
		High	3 970.00	20.18	25.50	45.68	36.95	
40	QPSK	Low	3 710.00	19.96	25.50	45.46	35.17	
		Middle	3 840.00	19.78	25.50	45.28	33.75	
		High	3 970.00	19.70	25.50	45.20	33.08	
	16QAM	Low	3 710.00	20.37	25.50	45.87	38.67	
		Middle	3 840.00	20.07	25.50	45.57	36.02	
		High	3 970.00	20.00	25.50	45.50	35.49	
	64QAM	Low	3 710.00	20.23	25.50	45.73	37.38	
		Middle	3 840.00	20.10	25.50	45.60	36.28	
		High	3 970.00	19.85	25.50	45.35	34.25	
	256QAM	Low	3 710.00	20.18	25.50	45.68	37.00	
		Middle	3 840.00	19.89	25.50	45.39	34.58	
		High	3 970.00	19.81	25.50	45.31	33.94	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
41	QPSK	Low	3 710.00	19.46	25.50	44.96	31.35	
		Middle	3 840.00	19.14	25.50	44.64	29.13	
		High	3 970.00	19.00	25.50	44.50	28.20	
	16QAM	Low	3 710.00	19.69	25.50	45.19	33.05	
		Middle	3 840.00	19.36	25.50	44.86	30.64	
		High	3 970.00	19.47	25.50	44.97	31.40	
	64QAM	Low	3 710.00	19.76	25.50	45.26	33.59	
		Middle	3 840.00	19.41	25.50	44.91	31.00	
		High	3 970.00	20.06	25.50	45.56	35.94	
	256QAM	Low	3 710.00	19.73	25.50	45.23	33.31	
		Middle	3 840.00	19.21	25.50	44.71	29.57	
		High	3 970.00	19.26	25.50	44.76	29.89	
42	QPSK	Low	3 710.00	20.35	25.50	45.85	38.50	1640 (3280)
		Middle	3 840.00	20.32	25.50	45.82	38.21	
		High	3 970.00	20.10	25.50	45.60	36.30	
	16QAM	Low	3 710.00	20.67	25.50	46.17	41.37	
		Middle	3 840.00	20.64	25.50	46.14	41.09	
		High	3 970.00	20.36	25.50	45.86	38.56	
	64QAM	Low	3 710.00	20.62	25.50	46.12	40.97	
		Middle	3 840.00	20.63	25.50	46.13	41.05	
		High	3 970.00	20.34	25.50	45.84	38.38	
	256QAM	Low	3 710.00	20.65	25.50	46.15	41.23	
		Middle	3 840.00	20.38	25.50	45.88	38.73	
		High	3 970.00	20.30	25.50	45.80	38.05	
43	QPSK	Low	3 710.00	20.53	25.50	46.03	40.13	
		Middle	3 840.00	20.07	25.50	45.57	36.09	
		High	3 970.00	20.30	25.50	45.80	38.04	
	16QAM	Low	3 710.00	20.86	25.50	46.36	43.24	
		Middle	3 840.00	20.31	25.50	45.81	38.09	
		High	3 970.00	20.52	25.50	46.02	39.97	
	64QAM	Low	3 710.00	20.91	25.50	46.41	43.71	
		Middle	3 840.00	20.34	25.50	45.84	38.39	
		High	3 970.00	20.57	25.50	46.07	40.45	
	256QAM	Low	3 710.00	20.69	25.50	46.19	41.55	
		Middle	3 840.00	20.04	25.50	45.54	35.83	
		High	3 970.00	20.47	25.50	45.97	39.49	



Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
44	QPSK	Low	3 710.00	20.27	25.50	45.77	37.73	
		Middle	3 840.00	20.26	25.50	45.76	37.66	
		High	3 970.00	20.07	25.50	45.57	36.05	
	16QAM	Low	3 710.00	20.59	25.50	46.09	40.67	
		Middle	3 840.00	20.58	25.50	46.08	40.53	
		High	3 970.00	20.30	25.50	45.80	37.98	
	64QAM	Low	3 710.00	20.68	25.50	46.18	41.50	
		Middle	3 840.00	20.65	25.50	46.15	41.23	
		High	3 970.00	20.40	25.50	45.90	38.94	
	256QAM	Low	3 710.00	20.45	25.50	45.95	39.36	
		Middle	3 840.00	20.58	25.50	46.08	40.58	
		High	3 970.00	20.18	25.50	45.68	37.02	
45	QPSK	Low	3 710.00	19.94	25.50	45.44	35.00	1640 (3280)
		Middle	3 840.00	19.65	25.50	45.15	32.70	
		High	3 970.00	19.66	25.50	45.16	32.82	
	16QAM	Low	3 710.00	20.21	25.50	45.71	37.26	
		Middle	3 840.00	19.84	25.50	45.34	34.20	
		High	3 970.00	19.87	25.50	45.37	34.41	
	64QAM	Low	3 710.00	20.11	25.50	45.61	36.39	
		Middle	3 840.00	19.95	25.50	45.45	35.08	
		High	3 970.00	19.76	25.50	45.26	33.59	
	256QAM	Low	3 710.00	20.09	25.50	45.59	36.25	
		Middle	3 840.00	19.73	25.50	45.23	33.35	
		High	3 970.00	19.83	25.50	45.33	34.14	
46	QPSK	Low	3 710.00	20.37	25.50	45.87	38.63	
		Middle	3 840.00	20.11	25.50	45.61	36.37	
		High	3 970.00	20.20	25.50	45.70	37.19	
	16QAM	Low	3 710.00	20.66	25.50	46.16	41.28	
		Middle	3 840.00	20.48	25.50	45.98	39.61	
		High	3 970.00	20.42	25.50	45.92	39.13	
	64QAM	Low	3 710.00	20.64	25.50	46.14	41.08	
		Middle	3 840.00	20.32	25.50	45.82	38.19	
		High	3 970.00	20.33	25.50	45.83	38.29	
	256QAM	Low	3 710.00	20.45	25.50	45.95	39.37	
		Middle	3 840.00	20.37	25.50	45.87	38.63	
		High	3 970.00	20.34	25.50	45.84	38.34	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
47	QPSK	Low	3 710.00	20.17	25.50	45.67	36.86	
		Middle	3 840.00	19.79	25.50	45.29	33.83	
		High	3 970.00	19.92	25.50	45.42	34.82	
	16QAM	Low	3 710.00	20.25	25.50	45.75	37.61	
		Middle	3 840.00	20.06	25.50	45.56	35.96	
		High	3 970.00	20.10	25.50	45.60	36.27	
	64QAM	Low	3 710.00	20.29	25.50	45.79	37.95	
		Middle	3 840.00	20.03	25.50	45.53	35.73	
		High	3 970.00	20.09	25.50	45.59	36.23	
	256QAM	Low	3 710.00	20.22	25.50	45.72	37.32	
		Middle	3 840.00	19.87	25.50	45.37	34.44	
		High	3 970.00	20.12	25.50	45.62	36.47	
48	QPSK	Low	3 710.00	20.39	25.50	45.89	38.78	1640 (3280)
		Middle	3 840.00	20.22	25.50	45.72	37.32	
		High	3 970.00	20.21	25.50	45.71	37.22	
	16QAM	Low	3 710.00	20.78	25.50	46.28	42.50	
		Middle	3 840.00	20.43	25.50	45.93	39.17	
		High	3 970.00	20.44	25.50	45.94	39.30	
	64QAM	Low	3 710.00	20.76	25.50	46.26	42.25	
		Middle	3 840.00	20.44	25.50	45.94	39.25	
		High	3 970.00	20.29	25.50	45.79	37.94	
	256QAM	Low	3 710.00	20.56	25.50	46.06	40.39	
		Middle	3 840.00	20.32	25.50	45.82	38.23	
		High	3 970.00	20.30	25.50	45.80	37.98	
49	QPSK	Low	3 710.00	20.04	25.50	45.54	35.85	
		Middle	3 840.00	19.55	25.50	45.05	31.97	
		High	3 970.00	19.57	25.50	45.07	32.10	
	16QAM	Low	3 710.00	20.23	25.50	45.73	37.37	
		Middle	3 840.00	20.07	25.50	45.57	36.07	
		High	3 970.00	19.88	25.50	45.38	34.55	
	64QAM	Low	3 710.00	20.24	25.50	45.74	37.52	
		Middle	3 840.00	19.97	25.50	45.47	35.26	
		High	3 970.00	19.72	25.50	45.22	33.29	
	256QAM	Low	3 710.00	20.17	25.50	45.67	36.86	
		Middle	3 840.00	19.95	25.50	45.45	35.11	
		High	3 970.00	19.73	25.50	45.23	33.37	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
50	QPSK	Low	3 710.00	20.61	25.50	46.11	40.83	
		Middle	3 840.00	20.43	25.50	45.93	39.17	
		High	3 970.00	20.53	25.50	46.03	40.09	
	16QAM	Low	3 710.00	20.84	25.50	46.34	43.03	
		Middle	3 840.00	20.81	25.50	46.31	42.72	
		High	3 970.00	20.65	25.50	46.15	41.17	
	64QAM	Low	3 710.00	20.87	25.50	46.37	43.36	
		Middle	3 840.00	20.88	25.50	46.38	43.42	
		High	3 970.00	20.76	25.50	46.26	42.22	
	256QAM	Low	3 710.00	20.73	25.50	46.23	41.96	
		Middle	3 840.00	20.71	25.50	46.21	41.78	
		High	3 970.00	20.56	25.50	46.06	40.39	
51	QPSK	Low	3 710.00	20.83	25.50	46.33	42.99	1640 (3280)
		Middle	3 840.00	20.68	25.50	46.18	41.50	
		High	3 970.00	20.77	25.50	46.27	42.34	
	16QAM	Low	3 710.00	21.16	25.50	46.66	46.34	
		Middle	3 840.00	20.83	25.50	46.33	42.93	
		High	3 970.00	20.84	25.50	46.34	43.04	
	64QAM	Low	3 710.00	21.13	25.50	46.63	45.99	
		Middle	3 840.00	20.78	25.50	46.28	42.43	
		High	3 970.00	20.73	25.50	46.23	42.00	
	256QAM	Low	3 710.00	21.02	25.50	46.52	44.85	
		Middle	3 840.00	20.79	25.50	46.29	42.56	
		High	3 970.00	20.85	25.50	46.35	43.20	
52	QPSK	Low	3 710.00	20.81	25.50	46.31	42.77	
		Middle	3 840.00	20.51	25.50	46.01	39.86	
		High	3 970.00	20.54	25.50	46.04	40.15	
	16QAM	Low	3 710.00	21.08	25.50	46.58	45.52	
		Middle	3 840.00	20.68	25.50	46.18	41.45	
		High	3 970.00	20.53	25.50	46.03	40.10	
	64QAM	Low	3 710.00	21.18	25.50	46.68	46.56	
		Middle	3 840.00	20.75	25.50	46.25	42.19	
		High	3 970.00	20.64	25.50	46.14	41.09	
	256QAM	Low	3 710.00	20.84	25.50	46.34	43.03	
		Middle	3 840.00	20.72	25.50	46.22	41.84	
		High	3 970.00	20.67	25.50	46.17	41.40	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
53	QPSK	Low	3 710.00	20.47	25.50	45.97	39.55	
		Middle	3 840.00	19.99	25.50	45.49	35.42	
		High	3 970.00	20.25	25.50	45.75	37.57	
	16QAM	Low	3 710.00	20.76	25.50	46.26	42.28	
		Middle	3 840.00	20.31	25.50	45.81	38.12	
		High	3 970.00	20.41	25.50	45.91	39.00	
	64QAM	Low	3 710.00	20.75	25.50	46.25	42.14	
		Middle	3 840.00	20.24	25.50	45.74	37.53	
		High	3 970.00	20.45	25.50	45.95	39.34	
	256QAM	Low	3 710.00	20.56	25.50	46.06	40.38	
		Middle	3 840.00	20.25	25.50	45.75	37.56	
		High	3 970.00	20.29	25.50	45.79	37.94	
54	QPSK	Low	3 710.00	20.00	25.50	45.50	35.45	1640 (3280)
		Middle	3 840.00	19.86	25.50	45.36	34.38	
		High	3 970.00	19.54	25.50	45.04	31.94	
	16QAM	Low	3 710.00	20.17	25.50	45.67	36.90	
		Middle	3 840.00	20.10	25.50	45.60	36.34	
		High	3 970.00	19.74	25.50	45.24	33.42	
	64QAM	Low	3 710.00	20.22	25.50	45.72	37.34	
		Middle	3 840.00	20.19	25.50	45.69	37.07	
		High	3 970.00	19.65	25.50	45.15	32.73	
	256QAM	Low	3 710.00	20.06	25.50	45.56	35.94	
		Middle	3 840.00	20.03	25.50	45.53	35.70	
		High	3 970.00	19.66	25.50	45.16	32.79	
55	QPSK	Low	3 710.00	20.43	25.50	45.93	39.15	
		Middle	3 840.00	19.79	25.50	45.29	33.78	
		High	3 970.00	19.76	25.50	45.26	33.57	
	16QAM	Low	3 710.00	20.54	25.50	46.04	40.22	
		Middle	3 840.00	19.95	25.50	45.45	35.06	
		High	3 970.00	19.89	25.50	45.39	34.59	
	64QAM	Low	3 710.00	20.66	25.50	46.16	41.35	
		Middle	3 840.00	20.01	25.50	45.51	35.53	
		High	3 970.00	19.83	25.50	45.33	34.15	
	256QAM	Low	3 710.00	20.49	25.50	45.99	39.70	
		Middle	3 840.00	20.07	25.50	45.57	36.04	
		High	3 970.00	19.82	25.50	45.32	34.04	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
56	QPSK	Low	3 710.00	20.27	25.50	45.77	37.73	
		Middle	3 840.00	19.85	25.50	45.35	34.29	
		High	3 970.00	20.01	25.50	45.51	35.57	
	16QAM	Low	3 710.00	20.64	25.50	46.14	41.08	
		Middle	3 840.00	20.19	25.50	45.69	37.10	
		High	3 970.00	20.13	25.50	45.63	36.55	
	64QAM	Low	3 710.00	20.60	25.50	46.10	40.70	
		Middle	3 840.00	20.14	25.50	45.64	36.62	
		High	3 970.00	20.16	25.50	45.66	36.77	
	256QAM	Low	3 710.00	20.43	25.50	45.93	39.15	
		Middle	3 840.00	20.14	25.50	45.64	36.67	
		High	3 970.00	20.12	25.50	45.62	36.48	
57	QPSK	Low	3 710.00	20.40	25.50	45.90	38.93	1640 (3280)
		Middle	3 840.00	20.14	25.50	45.64	36.69	
		High	3 970.00	20.20	25.50	45.70	37.13	
	16QAM	Low	3 710.00	20.53	25.50	46.03	40.13	
		Middle	3 840.00	20.50	25.50	46.00	39.82	
		High	3 970.00	20.27	25.50	45.77	37.78	
	64QAM	Low	3 710.00	20.77	25.50	46.27	42.32	
		Middle	3 840.00	20.44	25.50	45.94	39.24	
		High	3 970.00	20.32	25.50	45.82	38.21	
	256QAM	Low	3 710.00	20.66	25.50	46.16	41.31	
		Middle	3 840.00	20.42	25.50	45.92	39.05	
		High	3 970.00	20.49	25.50	45.99	39.68	
58	QPSK	Low	3 710.00	19.72	25.50	45.22	33.26	
		Middle	3 840.00	19.41	25.50	44.91	30.99	
		High	3 970.00	19.39	25.50	44.89	30.81	
	16QAM	Low	3 710.00	20.00	25.50	45.50	35.46	
		Middle	3 840.00	19.55	25.50	45.05	31.97	
		High	3 970.00	19.44	25.50	44.94	31.19	
	64QAM	Low	3 710.00	20.00	25.50	45.50	35.44	
		Middle	3 840.00	19.54	25.50	45.04	31.92	
		High	3 970.00	19.48	25.50	44.98	31.51	
	256QAM	Low	3 710.00	19.68	25.50	45.18	32.99	
		Middle	3 840.00	19.55	25.50	45.05	31.96	
		High	3 970.00	19.42	25.50	44.92	31.07	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
59	QPSK	Low	3 710.00	19.98	25.50	45.48	35.29	
		Middle	3 840.00	19.38	25.50	44.88	30.79	
		High	3 970.00	19.43	25.50	44.93	31.09	
	16QAM	Low	3 710.00	20.08	25.50	45.58	36.13	
		Middle	3 840.00	19.67	25.50	45.17	32.90	
		High	3 970.00	19.63	25.50	45.13	32.55	
	64QAM	Low	3 710.00	20.20	25.50	45.70	37.12	
		Middle	3 840.00	19.58	25.50	45.08	32.20	
		High	3 970.00	19.70	25.50	45.20	33.13	
	256QAM	Low	3 710.00	19.99	25.50	45.49	35.43	
		Middle	3 840.00	19.59	25.50	45.09	32.27	
		High	3 970.00	19.56	25.50	45.06	32.07	
60	QPSK	Low	3 710.00	20.10	25.50	45.60	36.29	1640 (3280)
		Middle	3 840.00	19.91	25.50	45.41	34.76	
		High	3 970.00	19.58	25.50	45.08	32.24	
	16QAM	Low	3 710.00	20.32	25.50	45.82	38.18	
		Middle	3 840.00	20.00	25.50	45.50	35.45	
		High	3 970.00	19.68	25.50	45.18	32.99	
	64QAM	Low	3 710.00	20.29	25.50	45.79	37.97	
		Middle	3 840.00	19.93	25.50	45.43	34.93	
		High	3 970.00	19.53	25.50	45.03	31.87	
	256QAM	Low	3 710.00	20.30	25.50	45.80	38.04	
		Middle	3 840.00	20.01	25.50	45.51	35.53	
		High	3 970.00	19.53	25.50	45.03	31.87	
61	QPSK	Low	3 710.00	20.00	25.50	45.50	35.49	
		Middle	3 840.00	19.52	25.50	45.02	31.78	
		High	3 970.00	19.48	25.50	44.98	31.50	
	16QAM	Low	3 710.00	20.27	25.50	45.77	37.74	
		Middle	3 840.00	19.73	25.50	45.23	33.31	
		High	3 970.00	19.64	25.50	45.14	32.67	
	64QAM	Low	3 710.00	20.27	25.50	45.77	37.73	
		Middle	3 840.00	19.72	25.50	45.22	33.27	
		High	3 970.00	19.67	25.50	45.17	32.89	
	256QAM	Low	3 710.00	20.18	25.50	45.68	36.96	
		Middle	3 840.00	19.66	25.50	45.16	32.84	
		High	3 970.00	19.60	25.50	45.10	32.37	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
62	QPSK	Low	3 710.00	19.59	25.50	45.09	32.26	1640 (3280)
		Middle	3 840.00	19.24	25.50	44.74	29.82	
		High	3 970.00	19.27	25.50	44.77	29.96	
	16QAM	Low	3 710.00	19.87	25.50	45.37	34.41	
		Middle	3 840.00	19.56	25.50	45.06	32.08	
		High	3 970.00	19.39	25.50	44.89	30.82	
	64QAM	Low	3 710.00	19.94	25.50	45.44	35.00	
		Middle	3 840.00	19.57	25.50	45.07	32.14	
		High	3 970.00	20.48	25.50	45.98	39.59	
	256QAM	Low	3 710.00	19.85	25.50	45.35	34.29	
		Middle	3 840.00	19.61	25.50	45.11	32.44	
		High	3 970.00	19.37	25.50	44.87	30.66	
63	QPSK	Low	3 710.00	20.09	25.50	45.59	36.19	
		Middle	3 840.00	19.77	25.50	45.27	33.62	
		High	3 970.00	19.52	25.50	45.02	31.76	
	16QAM	Low	3 710.00	20.38	25.50	45.88	38.74	
		Middle	3 840.00	19.86	25.50	45.36	34.36	
		High	3 970.00	19.75	25.50	45.25	33.49	
	64QAM	Low	3 710.00	20.42	25.50	45.92	39.09	
		Middle	3 840.00	19.93	25.50	45.43	34.94	
		High	3 970.00	19.66	25.50	45.16	32.84	
	256QAM	Low	3 710.00	20.32	25.50	45.82	38.21	
		Middle	3 840.00	19.89	25.50	45.39	34.57	
		High	3 970.00	19.68	25.50	45.18	32.96	

**Sum Data of Port 0 ~ Port 63**

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
3 710.00	2 414.96	2 605.87	2 596.68	2 545.11	1640 (3280)
3 840.00	2 241.42	2 459.97	2 454.98	2 395.86	
3 970.00	2 255.48	2 401.78	2 432.48	2 387.10	

## (64 Port) 5G NR n77 40 MHz [1 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	Low	3 720.00	19.26	25.50	44.76	29.91	1640 (3280)
		Middle	3 840.00	19.04	25.50	44.54	28.46	
		High	3 960.00	19.32	25.50	44.82	30.37	
	16QAM	Low	3 720.00	19.52	25.50	45.02	31.79	
		Middle	3 840.00	19.27	25.50	44.77	30.00	
		High	3 960.00	19.46	25.50	44.96	31.30	
	64QAM	Low	3 720.00	19.70	25.50	45.20	33.13	
		Middle	3 840.00	19.31	25.50	44.81	30.25	
		High	3 960.00	19.49	25.50	44.99	31.57	
	256QAM	Low	3 720.00	19.72	25.50	45.22	33.29	
		Middle	3 840.00	19.42	25.50	44.92	31.05	
		High	3 960.00	19.49	25.50	44.99	31.55	
1	QPSK	Low	3 720.00	20.19	25.50	45.69	37.11	
		Middle	3 840.00	19.69	25.50	45.19	33.03	
		High	3 960.00	19.84	25.50	45.34	34.20	
	16QAM	Low	3 720.00	20.30	25.50	45.80	37.99	
		Middle	3 840.00	19.98	25.50	45.48	35.35	
		High	3 960.00	20.23	25.50	45.73	37.42	
	64QAM	Low	3 720.00	20.09	25.50	45.59	36.19	
		Middle	3 840.00	19.99	25.50	45.49	35.40	
		High	3 960.00	20.11	25.50	45.61	36.36	
	256QAM	Low	3 720.00	20.25	25.50	45.75	37.59	
		Middle	3 840.00	20.03	25.50	45.53	35.74	
		High	3 960.00	20.18	25.50	45.68	36.95	



Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
2	QPSK	Low	3 720.00	19.14	25.50	44.64	29.12	
		Middle	3 840.00	19.30	25.50	44.80	30.23	
		High	3 960.00	18.94	25.50	44.44	27.77	
	16QAM	Low	3 720.00	19.39	25.50	44.89	30.86	
		Middle	3 840.00	19.59	25.50	45.09	32.28	
		High	3 960.00	19.62	25.50	45.12	32.52	
	64QAM	Low	3 720.00	19.37	25.50	44.87	30.68	
		Middle	3 840.00	19.46	25.50	44.96	31.30	
		High	3 960.00	19.34	25.50	44.84	30.48	
	256QAM	Low	3 720.00	19.39	25.50	44.89	30.86	
		Middle	3 840.00	19.41	25.50	44.91	30.96	
		High	3 960.00	19.47	25.50	44.97	31.40	
3	QPSK	Low	3 720.00	19.73	25.50	45.23	33.36	1640 (3280)
		Middle	3 840.00	19.81	25.50	45.31	33.99	
		High	3 960.00	19.49	25.50	44.99	31.58	
	16QAM	Low	3 720.00	19.99	25.50	45.49	35.42	
		Middle	3 840.00	20.12	25.50	45.62	36.49	
		High	3 960.00	19.91	25.50	45.41	34.75	
	64QAM	Low	3 720.00	19.97	25.50	45.47	35.22	
		Middle	3 840.00	19.93	25.50	45.43	34.88	
		High	3 960.00	19.89	25.50	45.39	34.58	
	256QAM	Low	3 720.00	20.09	25.50	45.59	36.26	
		Middle	3 840.00	20.02	25.50	45.52	35.62	
		High	3 960.00	19.91	25.50	45.41	34.78	
4	QPSK	Low	3 720.00	19.21	25.50	44.71	29.56	
		Middle	3 840.00	19.31	25.50	44.81	30.24	
		High	3 960.00	19.04	25.50	44.54	28.43	
	16QAM	Low	3 720.00	19.53	25.50	45.03	31.84	
		Middle	3 840.00	19.60	25.50	45.10	32.32	
		High	3 960.00	19.45	25.50	44.95	31.25	
	64QAM	Low	3 720.00	19.51	25.50	45.01	31.68	
		Middle	3 840.00	19.46	25.50	44.96	31.35	
		High	3 960.00	19.57	25.50	45.07	32.17	
	256QAM	Low	3 720.00	19.68	25.50	45.18	32.94	
		Middle	3 840.00	19.55	25.50	45.05	32.01	
		High	3 960.00	19.44	25.50	44.94	31.16	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
5	QPSK	Low	3 720.00	19.62	25.50	45.12	32.48	1640 (3280)
		Middle	3 840.00	19.62	25.50	45.12	32.51	
		High	3 960.00	19.22	25.50	44.72	29.65	
	16QAM	Low	3 720.00	19.89	25.50	45.39	34.59	
		Middle	3 840.00	19.96	25.50	45.46	35.16	
		High	3 960.00	19.77	25.50	45.27	33.69	
	64QAM	Low	3 720.00	19.97	25.50	45.47	35.24	
		Middle	3 840.00	19.75	25.50	45.25	33.48	
		High	3 960.00	19.76	25.50	45.26	33.54	
	256QAM	Low	3 720.00	20.13	25.50	45.63	36.59	
		Middle	3 840.00	19.76	25.50	45.26	33.55	
		High	3 960.00	19.71	25.50	45.21	33.15	
6	QPSK	Low	3 720.00	19.58	25.50	45.08	32.21	1640 (3280)
		Middle	3 840.00	19.27	25.50	44.77	29.98	
		High	3 960.00	19.01	25.50	44.51	28.22	
	16QAM	Low	3 720.00	19.78	25.50	45.28	33.74	
		Middle	3 840.00	19.52	25.50	45.02	31.76	
		High	3 960.00	19.53	25.50	45.03	31.85	
	64QAM	Low	3 720.00	19.64	25.50	45.14	32.68	
		Middle	3 840.00	19.37	25.50	44.87	30.69	
		High	3 960.00	19.39	25.50	44.89	30.81	
	256QAM	Low	3 720.00	19.90	25.50	45.40	34.65	
		Middle	3 840.00	19.50	25.50	45.00	31.65	
		High	3 960.00	19.29	25.50	44.79	30.12	
7	QPSK	Low	3 720.00	19.78	25.50	45.28	33.75	1640 (3280)
		Middle	3 840.00	19.51	25.50	45.01	31.71	
		High	3 960.00	19.20	25.50	44.70	29.49	
	16QAM	Low	3 720.00	19.82	25.50	45.32	34.07	
		Middle	3 840.00	19.70	25.50	45.20	33.08	
		High	3 960.00	19.73	25.50	45.23	33.36	
	64QAM	Low	3 720.00	19.93	25.50	45.43	34.95	
		Middle	3 840.00	19.57	25.50	45.07	32.10	
		High	3 960.00	19.60	25.50	45.10	32.38	
	256QAM	Low	3 720.00	19.89	25.50	45.39	34.62	
		Middle	3 840.00	19.58	25.50	45.08	32.25	
		High	3 960.00	19.58	25.50	45.08	32.18	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
8	QPSK	Low	3 720.00	18.72	25.50	44.22	26.40	
		Middle	3 840.00	18.95	25.50	44.45	27.88	
		High	3 960.00	18.46	25.50	43.96	24.86	
	16QAM	Low	3 720.00	18.99	25.50	44.49	28.14	
		Middle	3 840.00	19.16	25.50	44.66	29.22	
		High	3 960.00	18.70	25.50	44.20	26.33	
	64QAM	Low	3 720.00	19.03	25.50	44.53	28.41	
		Middle	3 840.00	19.00	25.50	44.50	28.20	
		High	3 960.00	18.81	25.50	44.31	26.95	
	256QAM	Low	3 720.00	19.11	25.50	44.61	28.93	
		Middle	3 840.00	19.09	25.50	44.59	28.78	
		High	3 960.00	18.69	25.50	44.19	26.26	
9	QPSK	Low	3 720.00	18.41	25.50	43.91	24.62	1640 (3280)
		Middle	3 840.00	18.41	25.50	43.91	24.58	
		High	3 960.00	18.13	25.50	43.63	23.04	
	16QAM	Low	3 720.00	18.82	25.50	44.32	27.06	
		Middle	3 840.00	18.62	25.50	44.12	25.79	
		High	3 960.00	18.51	25.50	44.01	25.19	
	64QAM	Low	3 720.00	18.69	25.50	44.19	26.26	
		Middle	3 840.00	18.59	25.50	44.09	25.64	
		High	3 960.00	18.46	25.50	43.96	24.90	
	256QAM	Low	3 720.00	18.95	25.50	44.45	27.85	
		Middle	3 840.00	18.70	25.50	44.20	26.30	
		High	3 960.00	18.56	25.50	44.06	25.45	
10	QPSK	Low	3 720.00	19.27	25.50	44.77	29.98	
		Middle	3 840.00	19.21	25.50	44.71	29.59	
		High	3 960.00	19.10	25.50	44.60	28.83	
	16QAM	Low	3 720.00	19.63	25.50	45.13	32.60	
		Middle	3 840.00	19.33	25.50	44.83	30.42	
		High	3 960.00	19.25	25.50	44.75	29.84	
	64QAM	Low	3 720.00	19.52	25.50	45.02	31.76	
		Middle	3 840.00	19.31	25.50	44.81	30.27	
		High	3 960.00	19.24	25.50	44.74	29.75	
	256QAM	Low	3 720.00	19.75	25.50	45.25	33.47	
		Middle	3 840.00	19.44	25.50	44.94	31.18	
		High	3 960.00	19.28	25.50	44.78	30.07	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
11	QPSK	Low	3 720.00	19.71	25.50	45.21	33.17	1640 (3280)
		Middle	3 840.00	19.43	25.50	44.93	31.14	
		High	3 960.00	19.47	25.50	44.97	31.44	
	16QAM	Low	3 720.00	20.02	25.50	45.52	35.61	
		Middle	3 840.00	19.50	25.50	45.00	31.63	
		High	3 960.00	20.07	25.50	45.57	36.08	
	64QAM	Low	3 720.00	20.03	25.50	45.53	35.76	
		Middle	3 840.00	19.61	25.50	45.11	32.43	
		High	3 960.00	19.79	25.50	45.29	33.80	
	256QAM	Low	3 720.00	20.21	25.50	45.71	37.26	
		Middle	3 840.00	19.53	25.50	45.03	31.81	
		High	3 960.00	19.83	25.50	45.33	34.14	
12	QPSK	Low	3 720.00	19.52	25.50	45.02	31.77	1640 (3280)
		Middle	3 840.00	19.28	25.50	44.78	30.04	
		High	3 960.00	19.24	25.50	44.74	29.77	
	16QAM	Low	3 720.00	19.77	25.50	45.27	33.68	
		Middle	3 840.00	19.51	25.50	45.01	31.70	
		High	3 960.00	19.65	25.50	45.15	32.75	
	64QAM	Low	3 720.00	19.63	25.50	45.13	32.61	
		Middle	3 840.00	19.40	25.50	44.90	30.92	
		High	3 960.00	19.42	25.50	44.92	31.05	
	256QAM	Low	3 720.00	19.73	25.50	45.23	33.33	
		Middle	3 840.00	19.48	25.50	44.98	31.46	
		High	3 960.00	19.45	25.50	44.95	31.26	
13	QPSK	Low	3 720.00	19.02	25.50	44.52	28.32	1640 (3280)
		Middle	3 840.00	18.92	25.50	44.42	27.70	
		High	3 960.00	18.66	25.50	44.16	26.08	
	16QAM	Low	3 720.00	19.29	25.50	44.79	30.15	
		Middle	3 840.00	19.13	25.50	44.63	29.04	
		High	3 960.00	19.15	25.50	44.65	29.19	
	64QAM	Low	3 720.00	19.42	25.50	44.92	31.06	
		Middle	3 840.00	19.08	25.50	44.58	28.68	
		High	3 960.00	19.10	25.50	44.60	28.86	
	256QAM	Low	3 720.00	19.44	25.50	44.94	31.17	
		Middle	3 840.00	19.22	25.50	44.72	29.65	
		High	3 960.00	19.00	25.50	44.50	28.16	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
14	QPSK	Low	3 720.00	19.28	25.50	44.78	30.04	
		Middle	3 840.00	19.37	25.50	44.87	30.72	
		High	3 960.00	19.12	25.50	44.62	28.97	
	16QAM	Low	3 720.00	19.46	25.50	44.96	31.34	
		Middle	3 840.00	19.52	25.50	45.02	31.74	
		High	3 960.00	19.60	25.50	45.10	32.38	
	64QAM	Low	3 720.00	19.46	25.50	44.96	31.34	
		Middle	3 840.00	19.59	25.50	45.09	32.32	
		High	3 960.00	19.39	25.50	44.89	30.80	
	256QAM	Low	3 720.00	19.64	25.50	45.14	32.63	
		Middle	3 840.00	19.62	25.50	45.12	32.54	
		High	3 960.00	19.57	25.50	45.07	32.16	
15	QPSK	Low	3 720.00	18.96	25.50	44.46	27.91	1640 (3280)
		Middle	3 840.00	19.09	25.50	44.59	28.78	
		High	3 960.00	18.94	25.50	44.44	27.81	
	16QAM	Low	3 720.00	19.31	25.50	44.81	30.30	
		Middle	3 840.00	19.17	25.50	44.67	29.28	
		High	3 960.00	19.16	25.50	44.66	29.27	
	64QAM	Low	3 720.00	19.25	25.50	44.75	29.88	
		Middle	3 840.00	19.19	25.50	44.69	29.46	
		High	3 960.00	19.15	25.50	44.65	29.18	
	256QAM	Low	3 720.00	19.31	25.50	44.81	30.29	
		Middle	3 840.00	19.34	25.50	44.84	30.51	
		High	3 960.00	19.14	25.50	44.64	29.11	
16	QPSK	Low	3 720.00	19.63	25.50	45.13	32.56	
		Middle	3 840.00	19.88	25.50	45.38	34.53	
		High	3 960.00	19.64	25.50	45.14	32.67	
	16QAM	Low	3 720.00	19.97	25.50	45.47	35.20	
		Middle	3 840.00	19.97	25.50	45.47	35.22	
		High	3 960.00	19.84	25.50	45.34	34.21	
	64QAM	Low	3 720.00	19.87	25.50	45.37	34.45	
		Middle	3 840.00	19.90	25.50	45.40	34.70	
		High	3 960.00	20.01	25.50	45.51	35.56	
	256QAM	Low	3 720.00	20.03	25.50	45.53	35.74	
		Middle	3 840.00	20.00	25.50	45.50	35.48	
		High	3 960.00	19.85	25.50	45.35	34.25	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
17	QPSK	Low	3 720.00	19.37	25.50	44.87	30.66	
		Middle	3 840.00	19.13	25.50	44.63	29.03	
		High	3 960.00	18.88	25.50	44.38	27.40	
	16QAM	Low	3 720.00	19.46	25.50	44.96	31.34	
		Middle	3 840.00	19.25	25.50	44.75	29.85	
		High	3 960.00	19.20	25.50	44.70	29.54	
	64QAM	Low	3 720.00	19.55	25.50	45.05	32.02	
		Middle	3 840.00	19.23	25.50	44.73	29.69	
		High	3 960.00	19.22	25.50	44.72	29.64	
	256QAM	Low	3 720.00	19.73	25.50	45.23	33.34	
		Middle	3 840.00	19.17	25.50	44.67	29.33	
		High	3 960.00	19.30	25.50	44.80	30.17	
18	QPSK	Low	3 720.00	19.86	25.50	45.36	34.38	1640 (3280)
		Middle	3 840.00	19.88	25.50	45.38	34.53	
		High	3 960.00	19.65	25.50	45.15	32.76	
	16QAM	Low	3 720.00	20.00	25.50	45.50	35.48	
		Middle	3 840.00	19.99	25.50	45.49	35.44	
		High	3 960.00	20.03	25.50	45.53	35.69	
	64QAM	Low	3 720.00	19.97	25.50	45.47	35.20	
		Middle	3 840.00	19.99	25.50	45.49	35.39	
		High	3 960.00	19.80	25.50	45.30	33.86	
	256QAM	Low	3 720.00	20.17	25.50	45.67	36.88	
		Middle	3 840.00	19.95	25.50	45.45	35.04	
		High	3 960.00	19.88	25.50	45.38	34.49	
19	QPSK	Low	3 720.00	20.17	25.50	45.67	36.91	
		Middle	3 840.00	19.93	25.50	45.43	34.88	
		High	3 960.00	20.13	25.50	45.63	36.58	
	16QAM	Low	3 720.00	20.29	25.50	45.79	37.96	
		Middle	3 840.00	20.08	25.50	45.58	36.12	
		High	3 960.00	20.36	25.50	45.86	38.53	
	64QAM	Low	3 720.00	20.28	25.50	45.78	37.80	
		Middle	3 840.00	19.98	25.50	45.48	35.31	
		High	3 960.00	20.28	25.50	45.78	37.84	
	256QAM	Low	3 720.00	20.36	25.50	45.86	38.59	
		Middle	3 840.00	20.07	25.50	45.57	36.03	
		High	3 960.00	20.45	25.50	45.95	39.32	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
20	QPSK	Low	3 720.00	19.87	25.50	45.37	34.41	
		Middle	3 840.00	19.64	25.50	45.14	32.67	
		High	3 960.00	19.57	25.50	45.07	32.11	
	16QAM	Low	3 720.00	20.05	25.50	45.55	35.92	
		Middle	3 840.00	19.80	25.50	45.30	33.85	
		High	3 960.00	19.86	25.50	45.36	34.32	
	64QAM	Low	3 720.00	19.98	25.50	45.48	35.28	
		Middle	3 840.00	19.81	25.50	45.31	33.99	
		High	3 960.00	19.83	25.50	45.33	34.11	
	256QAM	Low	3 720.00	20.06	25.50	45.56	36.00	
		Middle	3 840.00	19.76	25.50	45.26	33.60	
		High	3 960.00	19.90	25.50	45.40	34.66	
21	QPSK	Low	3 720.00	19.60	25.50	45.10	32.35	1640 (3280)
		Middle	3 840.00	19.62	25.50	45.12	32.54	
		High	3 960.00	19.70	25.50	45.20	33.15	
	16QAM	Low	3 720.00	19.90	25.50	45.40	34.67	
		Middle	3 840.00	19.86	25.50	45.36	34.34	
		High	3 960.00	19.86	25.50	45.36	34.39	
	64QAM	Low	3 720.00	19.82	25.50	45.32	34.08	
		Middle	3 840.00	19.71	25.50	45.21	33.16	
		High	3 960.00	20.01	25.50	45.51	35.58	
	256QAM	Low	3 720.00	19.97	25.50	45.47	35.24	
		Middle	3 840.00	20.00	25.50	45.50	35.44	
		High	3 960.00	19.91	25.50	45.41	34.75	
22	QPSK	Low	3 720.00	19.25	25.50	44.75	29.87	
		Middle	3 840.00	19.22	25.50	44.72	29.62	
		High	3 960.00	19.05	25.50	44.55	28.49	
	16QAM	Low	3 720.00	19.38	25.50	44.88	30.74	
		Middle	3 840.00	19.27	25.50	44.77	30.01	
		High	3 960.00	19.14	25.50	44.64	29.13	
	64QAM	Low	3 720.00	19.30	25.50	44.80	30.20	
		Middle	3 840.00	19.30	25.50	44.80	30.17	
		High	3 960.00	19.14	25.50	44.64	29.10	
	256QAM	Low	3 720.00	19.51	25.50	45.01	31.72	
		Middle	3 840.00	19.34	25.50	44.84	30.45	
		High	3 960.00	19.20	25.50	44.70	29.52	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
23	QPSK	Low	3 720.00	19.49	25.50	44.99	31.53	1640 (3280)
		Middle	3 840.00	19.47	25.50	44.97	31.39	
		High	3 960.00	19.59	25.50	45.09	32.28	
	16QAM	Low	3 720.00	19.79	25.50	45.29	33.84	
		Middle	3 840.00	19.67	25.50	45.17	32.87	
		High	3 960.00	19.42	25.50	44.92	31.02	
	64QAM	Low	3 720.00	19.81	25.50	45.31	33.94	
		Middle	3 840.00	19.68	25.50	45.18	32.94	
		High	3 960.00	19.71	25.50	45.21	33.16	
	256QAM	Low	3 720.00	19.86	25.50	45.36	34.37	
		Middle	3 840.00	19.83	25.50	45.33	34.13	
		High	3 960.00	19.59	25.50	45.09	32.31	
24	QPSK	Low	3 720.00	19.03	25.50	44.53	28.35	
		Middle	3 840.00	19.16	25.50	44.66	29.21	
		High	3 960.00	18.88	25.50	44.38	27.44	
	16QAM	Low	3 720.00	19.30	25.50	44.80	30.18	
		Middle	3 840.00	19.18	25.50	44.68	29.35	
		High	3 960.00	18.99	25.50	44.49	28.09	
	64QAM	Low	3 720.00	19.17	25.50	44.67	29.33	
		Middle	3 840.00	19.19	25.50	44.69	29.43	
		High	3 960.00	19.04	25.50	44.54	28.42	
	256QAM	Low	3 720.00	19.42	25.50	44.92	31.02	
		Middle	3 840.00	19.27	25.50	44.77	29.99	
		High	3 960.00	18.92	25.50	44.42	27.67	
25	QPSK	Low	3 720.00	19.65	25.50	45.15	32.70	
		Middle	3 840.00	19.22	25.50	44.72	29.68	
		High	3 960.00	19.44	25.50	44.94	31.21	
	16QAM	Low	3 720.00	19.77	25.50	45.27	33.67	
		Middle	3 840.00	19.42	25.50	44.92	31.06	
		High	3 960.00	19.49	25.50	44.99	31.56	
	64QAM	Low	3 720.00	19.81	25.50	45.31	33.94	
		Middle	3 840.00	19.40	25.50	44.90	30.89	
		High	3 960.00	19.67	25.50	45.17	32.90	
	256QAM	Low	3 720.00	19.98	25.50	45.48	35.34	
		Middle	3 840.00	19.50	25.50	45.00	31.61	
		High	3 960.00	19.56	25.50	45.06	32.06	



Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
26	QPSK	Low	3 720.00	18.82	25.50	44.32	27.03	
		Middle	3 840.00	18.47	25.50	43.97	24.93	
		High	3 960.00	18.36	25.50	43.86	24.33	
	16QAM	Low	3 720.00	19.18	25.50	44.68	29.41	
		Middle	3 840.00	18.60	25.50	44.10	25.70	
		High	3 960.00	18.56	25.50	44.06	25.50	
	64QAM	Low	3 720.00	19.15	25.50	44.65	29.17	
		Middle	3 840.00	18.68	25.50	44.18	26.20	
		High	3 960.00	18.57	25.50	44.07	25.52	
	256QAM	Low	3 720.00	19.15	25.50	44.65	29.16	
		Middle	3 840.00	18.71	25.50	44.21	26.33	
		High	3 960.00	18.48	25.50	43.98	25.02	
27	QPSK	Low	3 720.00	18.77	25.50	44.27	26.73	1640 (3280)
		Middle	3 840.00	18.27	25.50	43.77	23.81	
		High	3 960.00	18.29	25.50	43.79	23.91	
	16QAM	Low	3 720.00	18.97	25.50	44.47	28.00	
		Middle	3 840.00	18.48	25.50	43.98	24.98	
		High	3 960.00	18.22	25.50	43.72	23.56	
	64QAM	Low	3 720.00	18.81	25.50	44.31	26.96	
		Middle	3 840.00	18.48	25.50	43.98	24.99	
		High	3 960.00	18.37	25.50	43.87	24.39	
	256QAM	Low	3 720.00	18.99	25.50	44.49	28.09	
		Middle	3 840.00	18.52	25.50	44.02	25.26	
		High	3 960.00	18.42	25.50	43.92	24.69	
28	QPSK	Low	3 720.00	19.50	25.50	45.00	31.63	
		Middle	3 840.00	18.96	25.50	44.46	27.93	
		High	3 960.00	18.83	25.50	44.33	27.13	
	16QAM	Low	3 720.00	19.80	25.50	45.30	33.86	
		Middle	3 840.00	19.22	25.50	44.72	29.67	
		High	3 960.00	18.94	25.50	44.44	27.78	
	64QAM	Low	3 720.00	19.65	25.50	45.15	32.74	
		Middle	3 840.00	19.09	25.50	44.59	28.79	
		High	3 960.00	18.98	25.50	44.48	28.06	
	256QAM	Low	3 720.00	19.96	25.50	45.46	35.16	
		Middle	3 840.00	19.14	25.50	44.64	29.09	
		High	3 960.00	18.96	25.50	44.46	27.91	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
29	QPSK	Low	3 720.00	18.91	25.50	44.41	27.60	1640 (3280)
		Middle	3 840.00	18.52	25.50	44.02	25.21	
		High	3 960.00	18.31	25.50	43.81	24.03	
	16QAM	Low	3 720.00	19.19	25.50	44.69	29.42	
		Middle	3 840.00	18.73	25.50	44.23	26.46	
		High	3 960.00	18.70	25.50	44.20	26.31	
	64QAM	Low	3 720.00	19.25	25.50	44.75	29.83	
		Middle	3 840.00	18.69	25.50	44.19	26.25	
		High	3 960.00	18.63	25.50	44.13	25.89	
	256QAM	Low	3 720.00	19.34	25.50	44.84	30.50	
		Middle	3 840.00	18.76	25.50	44.26	26.67	
		High	3 960.00	18.48	25.50	43.98	25.01	
30	QPSK	Low	3 720.00	18.72	25.50	44.22	26.44	1640 (3280)
		Middle	3 840.00	18.38	25.50	43.88	24.43	
		High	3 960.00	18.14	25.50	43.64	23.13	
	16QAM	Low	3 720.00	19.08	25.50	44.58	28.73	
		Middle	3 840.00	18.55	25.50	44.05	25.44	
		High	3 960.00	18.53	25.50	44.03	25.28	
	64QAM	Low	3 720.00	18.94	25.50	44.44	27.78	
		Middle	3 840.00	18.60	25.50	44.10	25.68	
		High	3 960.00	18.38	25.50	43.88	24.46	
	256QAM	Low	3 720.00	19.04	25.50	44.54	28.46	
		Middle	3 840.00	18.53	25.50	44.03	25.29	
		High	3 960.00	18.34	25.50	43.84	24.19	
31	QPSK	Low	3 720.00	18.81	25.50	44.31	26.96	1640 (3280)
		Middle	3 840.00	19.04	25.50	44.54	28.44	
		High	3 960.00	18.61	25.50	44.11	25.79	
	16QAM	Low	3 720.00	19.17	25.50	44.67	29.30	
		Middle	3 840.00	19.18	25.50	44.68	29.41	
		High	3 960.00	18.66	25.50	44.16	26.06	
	64QAM	Low	3 720.00	19.15	25.50	44.65	29.16	
		Middle	3 840.00	19.13	25.50	44.63	29.01	
		High	3 960.00	18.62	25.50	44.12	25.82	
	256QAM	Low	3 720.00	19.21	25.50	44.71	29.56	
		Middle	3 840.00	19.10	25.50	44.60	28.85	
		High	3 960.00	18.73	25.50	44.23	26.51	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
32	QPSK	Low	3 720.00	18.97	25.50	44.47	27.99	1640 (3280)
		Middle	3 840.00	18.65	25.50	44.15	26.01	
		High	3 960.00	18.78	25.50	44.28	26.78	
	16QAM	Low	3 720.00	19.49	25.50	44.99	31.52	
		Middle	3 840.00	19.13	25.50	44.63	29.06	
		High	3 960.00	19.19	25.50	44.69	29.47	
	64QAM	Low	3 720.00	19.38	25.50	44.88	30.73	
		Middle	3 840.00	18.93	25.50	44.43	27.76	
		High	3 960.00	19.13	25.50	44.63	29.04	
	256QAM	Low	3 720.00	19.39	25.50	44.89	30.86	
		Middle	3 840.00	19.17	25.50	44.67	29.28	
		High	3 960.00	19.09	25.50	44.59	28.77	
33	QPSK	Low	3 720.00	19.84	25.50	45.34	34.18	1640 (3280)
		Middle	3 840.00	19.37	25.50	44.87	30.70	
		High	3 960.00	19.53	25.50	45.03	31.81	
	16QAM	Low	3 720.00	20.17	25.50	45.67	36.89	
		Middle	3 840.00	19.65	25.50	45.15	32.74	
		High	3 960.00	19.86	25.50	45.36	34.38	
	64QAM	Low	3 720.00	19.99	25.50	45.49	35.36	
		Middle	3 840.00	19.65	25.50	45.15	32.74	
		High	3 960.00	19.79	25.50	45.29	33.84	
	256QAM	Low	3 720.00	20.15	25.50	45.65	36.71	
		Middle	3 840.00	19.62	25.50	45.12	32.53	
		High	3 960.00	19.82	25.50	45.32	34.04	
34	QPSK	Low	3 720.00	19.29	25.50	44.79	30.11	1640 (3280)
		Middle	3 840.00	18.89	25.50	44.39	27.45	
		High	3 960.00	18.83	25.50	44.33	27.12	
	16QAM	Low	3 720.00	19.37	25.50	44.87	30.66	
		Middle	3 840.00	19.11	25.50	44.61	28.89	
		High	3 960.00	19.24	25.50	44.74	29.78	
	64QAM	Low	3 720.00	19.30	25.50	44.80	30.21	
		Middle	3 840.00	19.10	25.50	44.60	28.85	
		High	3 960.00	19.05	25.50	44.55	28.53	
	256QAM	Low	3 720.00	19.46	25.50	44.96	31.31	
		Middle	3 840.00	19.12	25.50	44.62	28.98	
		High	3 960.00	19.15	25.50	44.65	29.18	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
35	QPSK	Low	3 720.00	19.64	25.50	45.14	32.64	
		Middle	3 840.00	19.25	25.50	44.75	29.83	
		High	3 960.00	19.38	25.50	44.88	30.79	
	16QAM	Low	3 720.00	19.77	25.50	45.27	33.64	
		Middle	3 840.00	19.55	25.50	45.05	31.98	
		High	3 960.00	19.50	25.50	45.00	31.65	
	64QAM	Low	3 720.00	19.76	25.50	45.26	33.58	
		Middle	3 840.00	19.57	25.50	45.07	32.16	
		High	3 960.00	19.57	25.50	45.07	32.12	
	256QAM	Low	3 720.00	19.87	25.50	45.37	34.40	
		Middle	3 840.00	19.59	25.50	45.09	32.26	
		High	3 960.00	19.53	25.50	45.03	31.87	
36	QPSK	Low	3 720.00	18.90	25.50	44.40	27.54	1640 (3280)
		Middle	3 840.00	18.65	25.50	44.15	26.03	
		High	3 960.00	18.64	25.50	44.14	25.96	
	16QAM	Low	3 720.00	19.17	25.50	44.67	29.33	
		Middle	3 840.00	18.99	25.50	44.49	28.10	
		High	3 960.00	18.93	25.50	44.43	27.72	
	64QAM	Low	3 720.00	19.09	25.50	44.59	28.76	
		Middle	3 840.00	18.89	25.50	44.39	27.46	
		High	3 960.00	18.96	25.50	44.46	27.92	
	256QAM	Low	3 720.00	19.20	25.50	44.70	29.50	
		Middle	3 840.00	19.02	25.50	44.52	28.33	
		High	3 960.00	19.02	25.50	44.52	28.34	
37	QPSK	Low	3 720.00	19.42	25.50	44.92	31.07	
		Middle	3 840.00	19.15	25.50	44.65	29.15	
		High	3 960.00	18.99	25.50	44.49	28.10	
	16QAM	Low	3 720.00	19.79	25.50	45.29	33.84	
		Middle	3 840.00	19.43	25.50	44.93	31.15	
		High	3 960.00	19.30	25.50	44.80	30.20	
	64QAM	Low	3 720.00	19.85	25.50	45.35	34.30	
		Middle	3 840.00	19.36	25.50	44.86	30.64	
		High	3 960.00	19.34	25.50	44.84	30.49	
	256QAM	Low	3 720.00	19.85	25.50	45.35	34.31	
		Middle	3 840.00	19.44	25.50	44.94	31.20	
		High	3 960.00	19.31	25.50	44.81	30.24	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
38	QPSK	Low	3 720.00	19.37	25.50	44.87	30.68	
		Middle	3 840.00	18.91	25.50	44.41	27.62	
		High	3 960.00	18.65	25.50	44.15	25.99	
	16QAM	Low	3 720.00	19.51	25.50	45.01	31.72	
		Middle	3 840.00	19.20	25.50	44.70	29.53	
		High	3 960.00	18.96	25.50	44.46	27.92	
	64QAM	Low	3 720.00	19.50	25.50	45.00	31.62	
		Middle	3 840.00	19.16	25.50	44.66	29.27	
		High	3 960.00	19.01	25.50	44.51	28.22	
	256QAM	Low	3 720.00	19.59	25.50	45.09	32.28	
		Middle	3 840.00	19.30	25.50	44.80	30.21	
		High	3 960.00	18.95	25.50	44.45	27.87	
39	QPSK	Low	3 720.00	19.68	25.50	45.18	33.00	1640 (3280)
		Middle	3 840.00	19.21	25.50	44.71	29.58	
		High	3 960.00	19.00	25.50	44.50	28.15	
	16QAM	Low	3 720.00	19.84	25.50	45.34	34.23	
		Middle	3 840.00	19.36	25.50	44.86	30.64	
		High	3 960.00	19.18	25.50	44.68	29.37	
	64QAM	Low	3 720.00	19.71	25.50	45.21	33.22	
		Middle	3 840.00	19.46	25.50	44.96	31.30	
		High	3 960.00	19.22	25.50	44.72	29.62	
	256QAM	Low	3 720.00	19.84	25.50	45.34	34.18	
		Middle	3 840.00	19.66	25.50	45.16	32.84	
		High	3 960.00	19.21	25.50	44.71	29.56	
40	QPSK	Low	3 720.00	18.82	25.50	44.32	27.07	
		Middle	3 840.00	18.66	25.50	44.16	26.04	
		High	3 960.00	18.61	25.50	44.11	25.76	
	16QAM	Low	3 720.00	19.19	25.50	44.69	29.45	
		Middle	3 840.00	18.95	25.50	44.45	27.85	
		High	3 960.00	18.82	25.50	44.32	27.02	
	64QAM	Low	3 720.00	19.08	25.50	44.58	28.73	
		Middle	3 840.00	18.90	25.50	44.40	27.52	
		High	3 960.00	18.73	25.50	44.23	26.50	
	256QAM	Low	3 720.00	19.25	25.50	44.75	29.85	
		Middle	3 840.00	19.11	25.50	44.61	28.92	
		High	3 960.00	18.77	25.50	44.27	26.76	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
41	QPSK	Low	3 720.00	18.40	25.50	43.90	24.53	1640 (3280)
		Middle	3 840.00	18.03	25.50	43.53	22.56	
		High	3 960.00	18.80	25.50	44.30	26.92	
	16QAM	Low	3 720.00	18.68	25.50	44.18	26.20	
		Middle	3 840.00	18.28	25.50	43.78	23.87	
		High	3 960.00	18.80	25.50	44.30	26.89	
	64QAM	Low	3 720.00	18.58	25.50	44.08	25.59	
		Middle	3 840.00	18.24	25.50	43.74	23.66	
		High	3 960.00	18.95	25.50	44.45	27.84	
	256QAM	Low	3 720.00	18.67	25.50	44.17	26.13	
		Middle	3 840.00	18.31	25.50	43.81	24.07	
		High	3 960.00	18.93	25.50	44.43	27.71	
42	QPSK	Low	3 720.00	19.35	25.50	44.85	30.56	1640 (3280)
		Middle	3 840.00	19.09	25.50	44.59	28.80	
		High	3 960.00	18.92	25.50	44.42	27.65	
	16QAM	Low	3 720.00	19.69	25.50	45.19	33.03	
		Middle	3 840.00	19.37	25.50	44.87	30.72	
		High	3 960.00	19.23	25.50	44.73	29.73	
	64QAM	Low	3 720.00	19.51	25.50	45.01	31.72	
		Middle	3 840.00	19.36	25.50	44.86	30.59	
		High	3 960.00	19.22	25.50	44.72	29.66	
	256QAM	Low	3 720.00	19.78	25.50	45.28	33.70	
		Middle	3 840.00	19.39	25.50	44.89	30.83	
		High	3 960.00	19.34	25.50	44.84	30.48	
43	QPSK	Low	3 720.00	19.53	25.50	45.03	31.82	1640 (3280)
		Middle	3 840.00	19.08	25.50	44.58	28.74	
		High	3 960.00	19.01	25.50	44.51	28.28	
	16QAM	Low	3 720.00	19.61	25.50	45.11	32.44	
		Middle	3 840.00	19.28	25.50	44.78	30.08	
		High	3 960.00	19.21	25.50	44.71	29.56	
	64QAM	Low	3 720.00	19.63	25.50	45.13	32.55	
		Middle	3 840.00	19.28	25.50	44.78	30.03	
		High	3 960.00	19.38	25.50	44.88	30.78	
	256QAM	Low	3 720.00	19.63	25.50	45.13	32.61	
		Middle	3 840.00	19.32	25.50	44.82	30.33	
		High	3 960.00	19.37	25.50	44.87	30.68	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
44	QPSK	Low	3 720.00	19.27	25.50	44.77	30.02	
		Middle	3 840.00	19.06	25.50	44.56	28.61	
		High	3 960.00	18.99	25.50	44.49	28.11	
	16QAM	Low	3 720.00	19.57	25.50	45.07	32.14	
		Middle	3 840.00	19.41	25.50	44.91	30.94	
		High	3 960.00	19.37	25.50	44.87	30.69	
	64QAM	Low	3 720.00	19.37	25.50	44.87	30.69	
		Middle	3 840.00	19.43	25.50	44.93	31.10	
		High	3 960.00	19.22	25.50	44.72	29.68	
	256QAM	Low	3 720.00	19.51	25.50	45.01	31.72	
		Middle	3 840.00	19.52	25.50	45.02	31.77	
		High	3 960.00	19.18	25.50	44.68	29.34	
45	QPSK	Low	3 720.00	19.03	25.50	44.53	28.35	1640 (3280)
		Middle	3 840.00	18.55	25.50	44.05	25.39	
		High	3 960.00	18.55	25.50	44.05	25.42	
	16QAM	Low	3 720.00	19.29	25.50	44.79	30.10	
		Middle	3 840.00	18.68	25.50	44.18	26.20	
		High	3 960.00	18.74	25.50	44.24	26.55	
	64QAM	Low	3 720.00	19.06	25.50	44.56	28.54	
		Middle	3 840.00	18.84	25.50	44.34	27.17	
		High	3 960.00	18.76	25.50	44.26	26.69	
	256QAM	Low	3 720.00	19.17	25.50	44.67	29.30	
		Middle	3 840.00	18.82	25.50	44.32	27.03	
		High	3 960.00	18.82	25.50	44.32	27.06	
46	QPSK	Low	3 720.00	19.25	25.50	44.75	29.82	
		Middle	3 840.00	19.05	25.50	44.55	28.50	
		High	3 960.00	18.87	25.50	44.37	27.34	
	16QAM	Low	3 720.00	19.38	25.50	44.88	30.76	
		Middle	3 840.00	19.23	25.50	44.73	29.69	
		High	3 960.00	19.20	25.50	44.70	29.55	
	64QAM	Low	3 720.00	19.37	25.50	44.87	30.69	
		Middle	3 840.00	19.26	25.50	44.76	29.95	
		High	3 960.00	19.19	25.50	44.69	29.42	
	256QAM	Low	3 720.00	19.39	25.50	44.89	30.81	
		Middle	3 840.00	19.20	25.50	44.70	29.52	
		High	3 960.00	19.16	25.50	44.66	29.24	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
47	QPSK	Low	3 720.00	19.04	25.50	44.54	28.41	
		Middle	3 840.00	18.70	25.50	44.20	26.32	
		High	3 960.00	18.86	25.50	44.36	27.26	
	16QAM	Low	3 720.00	19.40	25.50	44.90	30.88	
		Middle	3 840.00	18.84	25.50	44.34	27.15	
		High	3 960.00	18.99	25.50	44.49	28.12	
	64QAM	Low	3 720.00	19.11	25.50	44.61	28.89	
		Middle	3 840.00	18.89	25.50	44.39	27.48	
		High	3 960.00	18.98	25.50	44.48	28.08	
	256QAM	Low	3 720.00	19.28	25.50	44.78	30.06	
		Middle	3 840.00	19.00	25.50	44.50	28.19	
		High	3 960.00	19.02	25.50	44.52	28.29	
48	QPSK	Low	3 720.00	19.34	25.50	44.84	30.47	1640 (3280)
		Middle	3 840.00	19.33	25.50	44.83	30.41	
		High	3 960.00	19.22	25.50	44.72	29.62	
	16QAM	Low	3 720.00	19.54	25.50	45.04	31.93	
		Middle	3 840.00	19.45	25.50	44.95	31.29	
		High	3 960.00	19.43	25.50	44.93	31.10	
	64QAM	Low	3 720.00	19.57	25.50	45.07	32.16	
		Middle	3 840.00	19.44	25.50	44.94	31.20	
		High	3 960.00	19.38	25.50	44.88	30.77	
	256QAM	Low	3 720.00	19.65	25.50	45.15	32.73	
		Middle	3 840.00	19.60	25.50	45.10	32.39	
		High	3 960.00	19.45	25.50	44.95	31.27	
49	QPSK	Low	3 720.00	19.13	25.50	44.63	29.02	
		Middle	3 840.00	18.66	25.50	44.16	26.08	
		High	3 960.00	18.63	25.50	44.13	25.89	
	16QAM	Low	3 720.00	19.38	25.50	44.88	30.77	
		Middle	3 840.00	19.01	25.50	44.51	28.22	
		High	3 960.00	18.77	25.50	44.27	26.76	
	64QAM	Low	3 720.00	19.41	25.50	44.91	30.95	
		Middle	3 840.00	18.90	25.50	44.40	27.52	
		High	3 960.00	18.80	25.50	44.30	26.94	
	256QAM	Low	3 720.00	19.47	25.50	44.97	31.42	
		Middle	3 840.00	18.98	25.50	44.48	28.03	
		High	3 960.00	18.83	25.50	44.33	27.10	



Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
50	QPSK	Low	3 720.00	19.78	25.50	45.28	33.76	
		Middle	3 840.00	19.55	25.50	45.05	32.01	
		High	3 960.00	19.50	25.50	45.00	31.66	
	16QAM	Low	3 720.00	19.99	25.50	45.49	35.38	
		Middle	3 840.00	19.90	25.50	45.40	34.64	
		High	3 960.00	19.59	25.50	45.09	32.28	
	64QAM	Low	3 720.00	19.82	25.50	45.32	34.06	
		Middle	3 840.00	19.79	25.50	45.29	33.77	
		High	3 960.00	19.68	25.50	45.18	32.94	
	256QAM	Low	3 720.00	19.89	25.50	45.39	34.57	
		Middle	3 840.00	19.77	25.50	45.27	33.62	
		High	3 960.00	19.72	25.50	45.22	33.24	
51	QPSK	Low	3 720.00	20.03	25.50	45.53	35.73	1640 (3280)
		Middle	3 840.00	19.65	25.50	45.15	32.76	
		High	3 960.00	19.75	25.50	45.25	33.46	
	16QAM	Low	3 720.00	20.17	25.50	45.67	36.90	
		Middle	3 840.00	19.95	25.50	45.45	35.05	
		High	3 960.00	19.96	25.50	45.46	35.12	
	64QAM	Low	3 720.00	20.21	25.50	45.71	37.22	
		Middle	3 840.00	19.89	25.50	45.39	34.58	
		High	3 960.00	19.96	25.50	45.46	35.13	
	256QAM	Low	3 720.00	20.20	25.50	45.70	37.12	
		Middle	3 840.00	19.96	25.50	45.46	35.14	
		High	3 960.00	20.00	25.50	45.50	35.51	
52	QPSK	Low	3 720.00	19.94	25.50	45.44	34.99	
		Middle	3 840.00	19.48	25.50	44.98	31.49	
		High	3 960.00	19.40	25.50	44.90	30.88	
	16QAM	Low	3 720.00	20.04	25.50	45.54	35.83	
		Middle	3 840.00	19.72	25.50	45.22	33.28	
		High	3 960.00	19.71	25.50	45.21	33.17	
	64QAM	Low	3 720.00	20.07	25.50	45.57	36.03	
		Middle	3 840.00	19.67	25.50	45.17	32.92	
		High	3 960.00	19.65	25.50	45.15	32.74	
	256QAM	Low	3 720.00	20.04	25.50	45.54	35.83	
		Middle	3 840.00	19.77	25.50	45.27	33.68	
		High	3 960.00	19.79	25.50	45.29	33.77	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
53	QPSK	Low	3 720.00	19.26	25.50	44.76	29.93	
		Middle	3 840.00	19.02	25.50	44.52	28.32	
		High	3 960.00	19.01	25.50	44.51	28.27	
	16QAM	Low	3 720.00	19.62	25.50	45.12	32.47	
		Middle	3 840.00	19.33	25.50	44.83	30.41	
		High	3 960.00	19.32	25.50	44.82	30.37	
	64QAM	Low	3 720.00	19.56	25.50	45.06	32.04	
		Middle	3 840.00	19.36	25.50	44.86	30.61	
		High	3 960.00	19.42	25.50	44.92	31.04	
	256QAM	Low	3 720.00	19.61	25.50	45.11	32.44	
		Middle	3 840.00	19.45	25.50	44.95	31.24	
		High	3 960.00	19.31	25.50	44.81	30.25	
54	QPSK	Low	3 720.00	19.24	25.50	44.74	29.80	1640 (3280)
		Middle	3 840.00	18.93	25.50	44.43	27.76	
		High	3 960.00	18.52	25.50	44.02	25.26	
	16QAM	Low	3 720.00	19.35	25.50	44.85	30.54	
		Middle	3 840.00	19.12	25.50	44.62	28.99	
		High	3 960.00	18.85	25.50	44.35	27.25	
	64QAM	Low	3 720.00	19.26	25.50	44.76	29.93	
		Middle	3 840.00	19.06	25.50	44.56	28.56	
		High	3 960.00	18.80	25.50	44.30	26.89	
	256QAM	Low	3 720.00	19.26	25.50	44.76	29.95	
		Middle	3 840.00	19.16	25.50	44.66	29.22	
		High	3 960.00	18.78	25.50	44.28	26.76	
55	QPSK	Low	3 720.00	19.12	25.50	44.62	28.98	
		Middle	3 840.00	18.89	25.50	44.39	27.50	
		High	3 960.00	18.88	25.50	44.38	27.41	
	16QAM	Low	3 720.00	19.49	25.50	44.99	31.53	
		Middle	3 840.00	19.00	25.50	44.50	28.21	
		High	3 960.00	18.88	25.50	44.38	27.42	
	64QAM	Low	3 720.00	19.50	25.50	45.00	31.65	
		Middle	3 840.00	18.96	25.50	44.46	27.91	
		High	3 960.00	19.08	25.50	44.58	28.70	
	256QAM	Low	3 720.00	19.56	25.50	45.06	32.07	
		Middle	3 840.00	19.20	25.50	44.70	29.51	
		High	3 960.00	19.06	25.50	44.56	28.56	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
56	QPSK	Low	3 720.00	19.16	25.50	44.66	29.22	
		Middle	3 840.00	18.89	25.50	44.39	27.48	
		High	3 960.00	18.79	25.50	44.29	26.85	
	16QAM	Low	3 720.00	19.24	25.50	44.74	29.75	
		Middle	3 840.00	19.04	25.50	44.54	28.43	
		High	3 960.00	18.86	25.50	44.36	27.30	
	64QAM	Low	3 720.00	19.20	25.50	44.70	29.51	
		Middle	3 840.00	19.03	25.50	44.53	28.36	
		High	3 960.00	18.91	25.50	44.41	27.60	
	256QAM	Low	3 720.00	19.34	25.50	44.84	30.44	
		Middle	3 840.00	19.07	25.50	44.57	28.66	
		High	3 960.00	18.89	25.50	44.39	27.45	
57	QPSK	Low	3 720.00	19.38	25.50	44.88	30.76	1640 (3280)
		Middle	3 840.00	19.00	25.50	44.50	28.20	
		High	3 960.00	19.13	25.50	44.63	29.07	
	16QAM	Low	3 720.00	19.52	25.50	45.02	31.76	
		Middle	3 840.00	19.19	25.50	44.69	29.43	
		High	3 960.00	19.37	25.50	44.87	30.71	
	64QAM	Low	3 720.00	19.59	25.50	45.09	32.31	
		Middle	3 840.00	19.30	25.50	44.80	30.23	
		High	3 960.00	19.32	25.50	44.82	30.34	
	256QAM	Low	3 720.00	19.69	25.50	45.19	33.06	
		Middle	3 840.00	19.50	25.50	45.00	31.60	
		High	3 960.00	19.17	25.50	44.67	29.28	
58	QPSK	Low	3 720.00	18.68	25.50	44.18	26.16	
		Middle	3 840.00	18.22	25.50	43.72	23.53	
		High	3 960.00	18.20	25.50	43.70	23.47	
	16QAM	Low	3 720.00	18.81	25.50	44.31	27.00	
		Middle	3 840.00	18.44	25.50	43.94	24.80	
		High	3 960.00	18.44	25.50	43.94	24.80	
	64QAM	Low	3 720.00	18.82	25.50	44.32	27.06	
		Middle	3 840.00	18.41	25.50	43.91	24.63	
		High	3 960.00	18.31	25.50	43.81	24.05	
	256QAM	Low	3 720.00	18.77	25.50	44.27	26.75	
		Middle	3 840.00	18.55	25.50	44.05	25.43	
		High	3 960.00	18.44	25.50	43.94	24.77	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
59	QPSK	Low	3 720.00	18.76	25.50	44.26	26.66	
		Middle	3 840.00	18.18	25.50	43.68	23.32	
		High	3 960.00	18.19	25.50	43.69	23.39	
	16QAM	Low	3 720.00	18.90	25.50	44.40	27.54	
		Middle	3 840.00	18.45	25.50	43.95	24.85	
		High	3 960.00	18.28	25.50	43.78	23.86	
	64QAM	Low	3 720.00	18.82	25.50	44.32	27.04	
		Middle	3 840.00	18.39	25.50	43.89	24.48	
		High	3 960.00	18.47	25.50	43.97	24.92	
	256QAM	Low	3 720.00	18.89	25.50	44.39	27.46	
		Middle	3 840.00	18.49	25.50	43.99	25.04	
		High	3 960.00	18.53	25.50	44.03	25.28	
60	QPSK	Low	3 720.00	19.21	25.50	44.71	29.55	1640 (3280)
		Middle	3 840.00	18.91	25.50	44.41	27.59	
		High	3 960.00	18.49	25.50	43.99	25.08	
	16QAM	Low	3 720.00	19.35	25.50	44.85	30.56	
		Middle	3 840.00	18.99	25.50	44.49	28.12	
		High	3 960.00	18.84	25.50	44.34	27.16	
	64QAM	Low	3 720.00	19.38	25.50	44.88	30.75	
		Middle	3 840.00	19.04	25.50	44.54	28.44	
		High	3 960.00	18.68	25.50	44.18	26.20	
	256QAM	Low	3 720.00	19.38	25.50	44.88	30.77	
		Middle	3 840.00	19.11	25.50	44.61	28.94	
		High	3 960.00	18.73	25.50	44.23	26.48	
61	QPSK	Low	3 720.00	18.79	25.50	44.29	26.83	
		Middle	3 840.00	18.41	25.50	43.91	24.60	
		High	3 960.00	18.23	25.50	43.73	23.59	
	16QAM	Low	3 720.00	19.16	25.50	44.66	29.22	
		Middle	3 840.00	18.55	25.50	44.05	25.38	
		High	3 960.00	18.52	25.50	44.02	25.23	
	64QAM	Low	3 720.00	19.18	25.50	44.68	29.39	
		Middle	3 840.00	18.66	25.50	44.16	26.04	
		High	3 960.00	18.57	25.50	44.07	25.52	
	256QAM	Low	3 720.00	19.26	25.50	44.76	29.91	
		Middle	3 840.00	18.66	25.50	44.16	26.08	
		High	3 960.00	18.75	25.50	44.25	26.61	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
62	QPSK	Low	3 720.00	18.47	25.50	43.97	24.94	1640 (3280)
		Middle	3 840.00	18.23	25.50	43.73	23.59	
		High	3 960.00	18.04	25.50	43.54	22.61	
	16QAM	Low	3 720.00	18.68	25.50	44.18	26.15	
		Middle	3 840.00	18.44	25.50	43.94	24.77	
		High	3 960.00	18.16	25.50	43.66	23.21	
	64QAM	Low	3 720.00	18.62	25.50	44.12	25.80	
		Middle	3 840.00	18.49	25.50	43.99	25.06	
		High	3 960.00	18.22	25.50	43.72	23.57	
	256QAM	Low	3 720.00	18.70	25.50	44.20	26.33	
		Middle	3 840.00	18.48	25.50	43.98	24.99	
		High	3 960.00	18.32	25.50	43.82	24.08	
63	QPSK	Low	3 720.00	18.89	25.50	44.39	27.45	
		Middle	3 840.00	18.56	25.50	44.06	25.47	
		High	3 960.00	18.37	25.50	43.87	24.40	
	16QAM	Low	3 720.00	19.17	25.50	44.67	29.31	
		Middle	3 840.00	18.68	25.50	44.18	26.17	
		High	3 960.00	18.38	25.50	43.88	24.44	
	64QAM	Low	3 720.00	19.15	25.50	44.65	29.17	
		Middle	3 840.00	18.75	25.50	44.25	26.59	
		High	3 960.00	18.65	25.50	44.15	25.98	
	256QAM	Low	3 720.00	19.16	25.50	44.66	29.22	
		Middle	3 840.00	18.80	25.50	44.30	26.92	
		High	3 960.00	18.55	25.50	44.05	25.39	

**Sum Data of Port 0 ~ Port 63**

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
3 720.00	1 931.86	2 040.44	2 018.98	2 068.71	1640 (3280)
3 840.00	1 834.88	1 925.69	1 912.56	1 944.37	
3 960.00	1 795.22	1 906.92	1 903.24	1 905.66	

**(64 Port) 5G NR n77 80 MHz [1 Carrier]**

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	Low	3 740.00	16.87	25.50	42.37	17.25	1640 (3280)
		Middle	3 840.00	16.96	25.50	42.46	17.63	
		High	3 940.00	17.01	25.50	42.51	17.83	
	16QAM	Low	3 740.00	17.39	25.50	42.89	19.43	
		Middle	3 840.00	17.25	25.50	42.75	18.83	
		High	3 940.00	17.20	25.50	42.70	18.63	
	64QAM	Low	3 740.00	17.15	25.50	42.65	18.40	
		Middle	3 840.00	17.39	25.50	42.89	19.44	
		High	3 940.00	17.29	25.50	42.79	19.01	
	256QAM	Low	3 740.00	17.28	25.50	42.78	18.99	
		Middle	3 840.00	17.16	25.50	42.66	18.46	
		High	3 940.00	17.39	25.50	42.89	19.44	
1	QPSK	Low	3 740.00	17.72	25.50	43.22	20.98	
		Middle	3 840.00	17.76	25.50	43.26	21.19	
		High	3 940.00	17.60	25.50	43.10	20.40	
	16QAM	Low	3 740.00	18.04	25.50	43.54	22.58	
		Middle	3 840.00	18.03	25.50	43.53	22.57	
		High	3 940.00	17.81	25.50	43.31	21.45	
	64QAM	Low	3 740.00	18.18	25.50	43.68	23.35	
		Middle	3 840.00	18.11	25.50	43.61	22.95	
		High	3 940.00	17.91	25.50	43.41	21.91	
	256QAM	Low	3 740.00	18.10	25.50	43.60	22.90	
		Middle	3 840.00	17.92	25.50	43.42	21.98	
		High	3 940.00	18.00	25.50	43.50	22.37	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
2	QPSK	Low	3 740.00	16.91	25.50	42.41	17.40	1640 (3280)
		Middle	3 840.00	17.34	25.50	42.84	19.25	
		High	3 940.00	16.89	25.50	42.39	17.32	
	16QAM	Low	3 740.00	17.25	25.50	42.75	18.84	
		Middle	3 840.00	17.58	25.50	43.08	20.34	
		High	3 940.00	17.13	25.50	42.63	18.34	
	64QAM	Low	3 740.00	17.21	25.50	42.71	18.68	
		Middle	3 840.00	17.45	25.50	42.95	19.71	
		High	3 940.00	17.30	25.50	42.80	19.04	
	256QAM	Low	3 740.00	17.43	25.50	42.93	19.65	
		Middle	3 840.00	17.38	25.50	42.88	19.40	
		High	3 940.00	17.21	25.50	42.71	18.66	
3	QPSK	Low	3 740.00	17.59	25.50	43.09	20.36	1640 (3280)
		Middle	3 840.00	17.79	25.50	43.29	21.35	
		High	3 940.00	17.37	25.50	42.87	19.35	
	16QAM	Low	3 740.00	17.78	25.50	43.28	21.28	
		Middle	3 840.00	17.89	25.50	43.39	21.82	
		High	3 940.00	17.51	25.50	43.01	19.99	
	64QAM	Low	3 740.00	17.81	25.50	43.31	21.42	
		Middle	3 840.00	18.03	25.50	43.53	22.54	
		High	3 940.00	17.59	25.50	43.09	20.38	
	256QAM	Low	3 740.00	17.95	25.50	43.45	22.14	
		Middle	3 840.00	17.82	25.50	43.32	21.48	
		High	3 940.00	17.73	25.50	43.23	21.06	
4	QPSK	Low	3 740.00	17.23	25.50	42.73	18.74	1640 (3280)
		Middle	3 840.00	17.33	25.50	42.83	19.19	
		High	3 940.00	17.14	25.50	42.64	18.36	
	16QAM	Low	3 740.00	17.38	25.50	42.88	19.42	
		Middle	3 840.00	17.42	25.50	42.92	19.61	
		High	3 940.00	17.24	25.50	42.74	18.80	
	64QAM	Low	3 740.00	17.51	25.50	43.01	20.02	
		Middle	3 840.00	17.61	25.50	43.11	20.48	
		High	3 940.00	17.40	25.50	42.90	19.49	
	256QAM	Low	3 740.00	17.71	25.50	43.21	20.93	
		Middle	3 840.00	17.39	25.50	42.89	19.47	
		High	3 940.00	17.42	25.50	42.92	19.59	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
5	QPSK	Low	3 740.00	17.55	25.50	43.05	20.17	
		Middle	3 840.00	17.44	25.50	42.94	19.68	
		High	3 940.00	17.31	25.50	42.81	19.09	
	16QAM	Low	3 740.00	17.68	25.50	43.18	20.78	
		Middle	3 840.00	17.74	25.50	43.24	21.07	
		High	3 940.00	17.27	25.50	42.77	18.91	
	64QAM	Low	3 740.00	17.59	25.50	43.09	20.37	
		Middle	3 840.00	17.77	25.50	43.27	21.22	
		High	3 940.00	17.43	25.50	42.93	19.65	
	256QAM	Low	3 740.00	17.77	25.50	43.27	21.21	
		Middle	3 840.00	17.64	25.50	43.14	20.62	
		High	3 940.00	17.51	25.50	43.01	20.01	
6	QPSK	Low	3 740.00	17.24	25.50	42.74	18.78	1640 (3280)
		Middle	3 840.00	17.37	25.50	42.87	19.36	
		High	3 940.00	16.92	25.50	42.42	17.44	
	16QAM	Low	3 740.00	17.42	25.50	42.92	19.60	
		Middle	3 840.00	17.42	25.50	42.92	19.58	
		High	3 940.00	17.07	25.50	42.57	18.05	
	64QAM	Low	3 740.00	17.48	25.50	42.98	19.86	
		Middle	3 840.00	17.59	25.50	43.09	20.39	
		High	3 940.00	17.32	25.50	42.82	19.12	
	256QAM	Low	3 740.00	17.45	25.50	42.95	19.73	
		Middle	3 840.00	17.33	25.50	42.83	19.19	
		High	3 940.00	17.35	25.50	42.85	19.26	
7	QPSK	Low	3 740.00	17.38	25.50	42.88	19.39	
		Middle	3 840.00	17.54	25.50	43.04	20.14	
		High	3 940.00	17.04	25.50	42.54	17.93	
	16QAM	Low	3 740.00	17.70	25.50	43.20	20.90	
		Middle	3 840.00	17.57	25.50	43.07	20.27	
		High	3 940.00	17.27	25.50	42.77	18.92	
	64QAM	Low	3 740.00	17.60	25.50	43.10	20.40	
		Middle	3 840.00	17.72	25.50	43.22	20.99	
		High	3 940.00	17.36	25.50	42.86	19.34	
	256QAM	Low	3 740.00	17.80	25.50	43.30	21.38	
		Middle	3 840.00	17.55	25.50	43.05	20.18	
		High	3 940.00	17.31	25.50	42.81	19.10	



Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
8	QPSK	Low	3 740.00	16.62	25.50	42.12	16.31	1640 (3280)
		Middle	3 840.00	16.88	25.50	42.38	17.29	
		High	3 940.00	16.60	25.50	42.10	16.20	
	16QAM	Low	3 740.00	16.74	25.50	42.24	16.77	
		Middle	3 840.00	17.10	25.50	42.60	18.20	
		High	3 940.00	17.00	25.50	42.50	17.79	
	64QAM	Low	3 740.00	16.97	25.50	42.47	17.65	
		Middle	3 840.00	17.17	25.50	42.67	18.50	
		High	3 940.00	17.38	25.50	42.88	19.43	
	256QAM	Low	3 740.00	16.92	25.50	42.42	17.46	
		Middle	3 840.00	17.04	25.50	42.54	17.93	
		High	3 940.00	17.38	25.50	42.88	19.41	
9	QPSK	Low	3 740.00	16.24	25.50	41.74	14.93	
		Middle	3 840.00	16.49	25.50	41.99	15.80	
		High	3 940.00	16.07	25.50	41.57	14.35	
	16QAM	Low	3 740.00	16.46	25.50	41.96	15.70	
		Middle	3 840.00	16.74	25.50	42.24	16.76	
		High	3 940.00	16.55	25.50	42.05	16.02	
	64QAM	Low	3 740.00	16.55	25.50	42.05	16.03	
		Middle	3 840.00	16.87	25.50	42.37	17.26	
		High	3 940.00	16.73	25.50	42.23	16.71	
	256QAM	Low	3 740.00	16.54	25.50	42.04	15.98	
		Middle	3 840.00	16.69	25.50	42.19	16.55	
		High	3 940.00	16.72	25.50	42.22	16.68	
10	QPSK	Low	3 740.00	17.06	25.50	42.56	18.04	
		Middle	3 840.00	17.21	25.50	42.71	18.65	
		High	3 940.00	16.94	25.50	42.44	17.55	
	16QAM	Low	3 740.00	17.41	25.50	42.91	19.55	
		Middle	3 840.00	17.34	25.50	42.84	19.24	
		High	3 940.00	17.52	25.50	43.02	20.05	
	64QAM	Low	3 740.00	17.40	25.50	42.90	19.50	
		Middle	3 840.00	17.44	25.50	42.94	19.69	
		High	3 940.00	17.81	25.50	43.31	21.43	
	256QAM	Low	3 740.00	17.49	25.50	42.99	19.93	
		Middle	3 840.00	17.28	25.50	42.78	18.95	
		High	3 940.00	17.72	25.50	43.22	21.00	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
11	QPSK	Low	3 740.00	17.54	25.50	43.04	20.13	1640 (3280)
		Middle	3 840.00	17.50	25.50	43.00	19.93	
		High	3 940.00	17.44	25.50	42.94	19.67	
	16QAM	Low	3 740.00	17.91	25.50	43.41	21.94	
		Middle	3 840.00	17.71	25.50	43.21	20.94	
		High	3 940.00	17.96	25.50	43.46	22.19	
	64QAM	Low	3 740.00	17.86	25.50	43.36	21.67	
		Middle	3 840.00	17.62	25.50	43.12	20.50	
		High	3 940.00	18.04	25.50	43.54	22.61	
	256QAM	Low	3 740.00	18.06	25.50	43.56	22.68	
		Middle	3 840.00	17.67	25.50	43.17	20.75	
		High	3 940.00	18.01	25.50	43.51	22.43	
12	QPSK	Low	3 740.00	17.22	25.50	42.72	18.69	1640 (3280)
		Middle	3 840.00	17.43	25.50	42.93	19.65	
		High	3 940.00	17.17	25.50	42.67	18.51	
	16QAM	Low	3 740.00	17.39	25.50	42.89	19.44	
		Middle	3 840.00	17.52	25.50	43.02	20.05	
		High	3 940.00	17.62	25.50	43.12	20.53	
	64QAM	Low	3 740.00	17.59	25.50	43.09	20.36	
		Middle	3 840.00	17.64	25.50	43.14	20.62	
		High	3 940.00	17.93	25.50	43.43	22.02	
	256QAM	Low	3 740.00	17.78	25.50	43.28	21.29	
		Middle	3 840.00	17.45	25.50	42.95	19.75	
		High	3 940.00	17.76	25.50	43.26	21.19	
13	QPSK	Low	3 740.00	16.89	25.50	42.39	17.33	1640 (3280)
		Middle	3 840.00	16.72	25.50	42.22	16.67	
		High	3 940.00	16.79	25.50	42.29	16.93	
	16QAM	Low	3 740.00	17.14	25.50	42.64	18.39	
		Middle	3 840.00	17.17	25.50	42.67	18.48	
		High	3 940.00	17.32	25.50	42.82	19.16	
	64QAM	Low	3 740.00	17.18	25.50	42.68	18.55	
		Middle	3 840.00	17.21	25.50	42.71	18.65	
		High	3 940.00	17.40	25.50	42.90	19.48	
	256QAM	Low	3 740.00	17.38	25.50	42.88	19.40	
		Middle	3 840.00	17.00	25.50	42.50	17.76	
		High	3 940.00	17.44	25.50	42.94	19.69	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
14	QPSK	Low	3 740.00	17.07	25.50	42.57	18.08	
		Middle	3 840.00	17.55	25.50	43.05	20.17	
		High	3 940.00	17.21	25.50	42.71	18.68	
	16QAM	Low	3 740.00	17.41	25.50	42.91	19.55	
		Middle	3 840.00	17.71	25.50	43.21	20.95	
		High	3 940.00	17.79	25.50	43.29	21.33	
	64QAM	Low	3 740.00	17.28	25.50	42.78	18.96	
		Middle	3 840.00	17.60	25.50	43.10	20.40	
		High	3 940.00	17.81	25.50	43.31	21.43	
	256QAM	Low	3 740.00	17.57	25.50	43.07	20.26	
		Middle	3 840.00	17.66	25.50	43.16	20.70	
		High	3 940.00	17.96	25.50	43.46	22.19	
15	QPSK	Low	3 740.00	17.02	25.50	42.52	17.85	1640 (3280)
		Middle	3 840.00	17.00	25.50	42.50	17.79	
		High	3 940.00	16.81	25.50	42.31	17.01	
	16QAM	Low	3 740.00	17.28	25.50	42.78	18.96	
		Middle	3 840.00	17.43	25.50	42.93	19.64	
		High	3 940.00	17.36	25.50	42.86	19.30	
	64QAM	Low	3 740.00	17.39	25.50	42.89	19.47	
		Middle	3 840.00	17.40	25.50	42.90	19.50	
		High	3 940.00	17.49	25.50	42.99	19.92	
	256QAM	Low	3 740.00	17.39	25.50	42.89	19.43	
		Middle	3 840.00	17.17	25.50	42.67	18.51	
		High	3 940.00	17.72	25.50	43.22	20.99	
16	QPSK	Low	3 740.00	17.67	25.50	43.17	20.75	
		Middle	3 840.00	17.62	25.50	43.12	20.52	
		High	3 940.00	17.72	25.50	43.22	20.98	
	16QAM	Low	3 740.00	17.76	25.50	43.26	21.17	
		Middle	3 840.00	17.90	25.50	43.40	21.86	
		High	3 940.00	17.83	25.50	43.33	21.51	
	64QAM	Low	3 740.00	17.84	25.50	43.34	21.56	
		Middle	3 840.00	17.85	25.50	43.35	21.63	
		High	3 940.00	18.00	25.50	43.50	22.37	
	256QAM	Low	3 740.00	17.81	25.50	43.31	21.43	
		Middle	3 840.00	17.82	25.50	43.32	21.50	
		High	3 940.00	18.00	25.50	43.50	22.41	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
17	QPSK	Low	3 740.00	17.01	25.50	42.51	17.83	
		Middle	3 840.00	16.80	25.50	42.30	16.97	
		High	3 940.00	16.89	25.50	42.39	17.32	
	16QAM	Low	3 740.00	17.21	25.50	42.71	18.65	
		Middle	3 840.00	17.12	25.50	42.62	18.30	
		High	3 940.00	16.93	25.50	42.43	17.48	
	64QAM	Low	3 740.00	17.26	25.50	42.76	18.90	
		Middle	3 840.00	17.26	25.50	42.76	18.90	
		High	3 940.00	17.09	25.50	42.59	18.16	
	256QAM	Low	3 740.00	17.27	25.50	42.77	18.94	
		Middle	3 840.00	17.20	25.50	42.70	18.62	
		High	3 940.00	17.09	25.50	42.59	18.15	
18	QPSK	Low	3 740.00	17.59	25.50	43.09	20.36	1640 (3280)
		Middle	3 840.00	17.79	25.50	43.29	21.35	
		High	3 940.00	17.32	25.50	42.82	19.13	
	16QAM	Low	3 740.00	17.84	25.50	43.34	21.59	
		Middle	3 840.00	18.06	25.50	43.56	22.70	
		High	3 940.00	17.70	25.50	43.20	20.87	
	64QAM	Low	3 740.00	17.66	25.50	43.16	20.70	
		Middle	3 840.00	17.93	25.50	43.43	22.03	
		High	3 940.00	17.63	25.50	43.13	20.57	
	256QAM	Low	3 740.00	17.84	25.50	43.34	21.56	
		Middle	3 840.00	17.87	25.50	43.37	21.72	
		High	3 940.00	17.69	25.50	43.19	20.85	
19	QPSK	Low	3 740.00	18.01	25.50	43.51	22.45	
		Middle	3 840.00	17.78	25.50	43.28	21.27	
		High	3 940.00	17.78	25.50	43.28	21.28	
	16QAM	Low	3 740.00	18.19	25.50	43.69	23.36	
		Middle	3 840.00	18.13	25.50	43.63	23.09	
		High	3 940.00	18.07	25.50	43.57	22.75	
	64QAM	Low	3 740.00	18.04	25.50	43.54	22.59	
		Middle	3 840.00	18.17	25.50	43.67	23.28	
		High	3 940.00	18.07	25.50	43.57	22.77	
	256QAM	Low	3 740.00	18.19	25.50	43.69	23.37	
		Middle	3 840.00	17.94	25.50	43.44	22.09	
		High	3 940.00	18.10	25.50	43.60	22.92	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
20	QPSK	Low	3 740.00	17.54	25.50	43.04	20.16	1640 (3280)
		Middle	3 840.00	17.70	25.50	43.20	20.88	
		High	3 940.00	17.33	25.50	42.83	19.20	
	16QAM	Low	3 740.00	17.82	25.50	43.32	21.50	
		Middle	3 840.00	17.97	25.50	43.47	22.22	
		High	3 940.00	17.68	25.50	43.18	20.79	
	64QAM	Low	3 740.00	17.61	25.50	43.11	20.45	
		Middle	3 840.00	17.83	25.50	43.33	21.53	
		High	3 940.00	17.58	25.50	43.08	20.35	
	256QAM	Low	3 740.00	17.67	25.50	43.17	20.77	
		Middle	3 840.00	17.72	25.50	43.22	21.00	
		High	3 940.00	17.54	25.50	43.04	20.12	
21	QPSK	Low	3 740.00	17.75	25.50	43.25	21.13	1640 (3280)
		Middle	3 840.00	17.63	25.50	43.13	20.54	
		High	3 940.00	17.55	25.50	43.05	20.19	
	16QAM	Low	3 740.00	17.77	25.50	43.27	21.24	
		Middle	3 840.00	17.82	25.50	43.32	21.49	
		High	3 940.00	17.73	25.50	43.23	21.03	
	64QAM	Low	3 740.00	17.76	25.50	43.26	21.18	
		Middle	3 840.00	17.84	25.50	43.34	21.57	
		High	3 940.00	17.60	25.50	43.10	20.43	
	256QAM	Low	3 740.00	17.91	25.50	43.41	21.93	
		Middle	3 840.00	17.74	25.50	43.24	21.10	
		High	3 940.00	17.63	25.50	43.13	20.58	
22	QPSK	Low	3 740.00	16.89	25.50	42.39	17.35	1640 (3280)
		Middle	3 840.00	17.16	25.50	42.66	18.45	
		High	3 940.00	16.69	25.50	42.19	16.54	
	16QAM	Low	3 740.00	17.07	25.50	42.57	18.08	
		Middle	3 840.00	17.38	25.50	42.88	19.43	
		High	3 940.00	16.98	25.50	42.48	17.72	
	64QAM	Low	3 740.00	17.16	25.50	42.66	18.45	
		Middle	3 840.00	17.43	25.50	42.93	19.63	
		High	3 940.00	16.92	25.50	42.42	17.44	
	256QAM	Low	3 740.00	17.26	25.50	42.76	18.86	
		Middle	3 840.00	17.30	25.50	42.80	19.06	
		High	3 940.00	16.85	25.50	42.35	17.18	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
23	QPSK	Low	3 740.00	17.26	25.50	42.76	18.89	
		Middle	3 840.00	17.48	25.50	42.98	19.84	
		High	3 940.00	17.23	25.50	42.73	18.77	
	16QAM	Low	3 740.00	17.56	25.50	43.06	20.23	
		Middle	3 840.00	17.69	25.50	43.19	20.83	
		High	3 940.00	17.46	25.50	42.96	19.78	
	64QAM	Low	3 740.00	17.42	25.50	42.92	19.59	
		Middle	3 840.00	17.69	25.50	43.19	20.86	
		High	3 940.00	17.26	25.50	42.76	18.86	
	256QAM	Low	3 740.00	17.51	25.50	43.01	20.01	
		Middle	3 840.00	17.70	25.50	43.20	20.87	
		High	3 940.00	17.36	25.50	42.86	19.32	
24	QPSK	Low	3 740.00	16.61	25.50	42.11	16.27	1640 (3280)
		Middle	3 840.00	17.05	25.50	42.55	18.01	
		High	3 940.00	17.07	25.50	42.57	18.06	
	16QAM	Low	3 740.00	16.82	25.50	42.32	17.05	
		Middle	3 840.00	17.16	25.50	42.66	18.44	
		High	3 940.00	17.73	25.50	43.23	21.02	
	64QAM	Low	3 740.00	16.89	25.50	42.39	17.33	
		Middle	3 840.00	17.20	25.50	42.70	18.60	
		High	3 940.00	17.59	25.50	43.09	20.35	
	256QAM	Low	3 740.00	17.27	25.50	42.77	18.91	
		Middle	3 840.00	16.98	25.50	42.48	17.71	
		High	3 940.00	17.58	25.50	43.08	20.30	
25	QPSK	Low	3 740.00	17.48	25.50	42.98	19.87	
		Middle	3 840.00	17.32	25.50	42.82	19.16	
		High	3 940.00	17.52	25.50	43.02	20.05	
	16QAM	Low	3 740.00	17.69	25.50	43.19	20.86	
		Middle	3 840.00	17.43	25.50	42.93	19.62	
		High	3 940.00	18.05	25.50	43.55	22.64	
	64QAM	Low	3 740.00	17.72	25.50	43.22	20.98	
		Middle	3 840.00	17.49	25.50	42.99	19.89	
		High	3 940.00	17.93	25.50	43.43	22.04	
	256QAM	Low	3 740.00	18.01	25.50	43.51	22.42	
		Middle	3 840.00	17.28	25.50	42.78	18.99	
		High	3 940.00	17.87	25.50	43.37	21.71	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
26	QPSK	Low	3 740.00	16.48	25.50	41.98	15.76	
		Middle	3 840.00	16.63	25.50	42.13	16.34	
		High	3 940.00	16.55	25.50	42.05	16.02	
	16QAM	Low	3 740.00	16.69	25.50	42.19	16.56	
		Middle	3 840.00	16.82	25.50	42.32	17.05	
		High	3 940.00	17.14	25.50	42.64	18.38	
	64QAM	Low	3 740.00	16.61	25.50	42.11	16.26	
		Middle	3 840.00	16.65	25.50	42.15	16.39	
		High	3 940.00	16.96	25.50	42.46	17.60	
	256QAM	Low	3 740.00	17.07	25.50	42.57	18.09	
		Middle	3 840.00	16.61	25.50	42.11	16.25	
		High	3 940.00	16.99	25.50	42.49	17.73	
27	QPSK	Low	3 740.00	16.33	25.50	41.83	15.24	1640 (3280)
		Middle	3 840.00	16.50	25.50	42.00	15.86	
		High	3 940.00	16.24	25.50	41.74	14.92	
	16QAM	Low	3 740.00	16.50	25.50	42.00	15.86	
		Middle	3 840.00	16.69	25.50	42.19	16.56	
		High	3 940.00	17.03	25.50	42.53	17.89	
	64QAM	Low	3 740.00	16.65	25.50	42.15	16.39	
		Middle	3 840.00	16.66	25.50	42.16	16.45	
		High	3 940.00	16.82	25.50	42.32	17.05	
	256QAM	Low	3 740.00	16.89	25.50	42.39	17.32	
		Middle	3 840.00	16.45	25.50	41.95	15.66	
		High	3 940.00	16.77	25.50	42.27	16.86	
28	QPSK	Low	3 740.00	17.18	25.50	42.68	18.53	
		Middle	3 840.00	17.26	25.50	42.76	18.90	
		High	3 940.00	16.85	25.50	42.35	17.18	
	16QAM	Low	3 740.00	17.36	25.50	42.86	19.31	
		Middle	3 840.00	17.23	25.50	42.73	18.75	
		High	3 940.00	17.39	25.50	42.89	19.46	
	64QAM	Low	3 740.00	17.41	25.50	42.91	19.53	
		Middle	3 840.00	17.29	25.50	42.79	19.02	
		High	3 940.00	17.32	25.50	42.82	19.15	
	256QAM	Low	3 740.00	17.56	25.50	43.06	20.22	
		Middle	3 840.00	17.01	25.50	42.51	17.81	
		High	3 940.00	17.26	25.50	42.76	18.86	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
29	QPSK	Low	3 740.00	16.68	25.50	42.18	16.51	1640 (3280)
		Middle	3 840.00	16.46	25.50	41.96	15.72	
		High	3 940.00	16.64	25.50	42.14	16.38	
	16QAM	Low	3 740.00	16.90	25.50	42.40	17.40	
		Middle	3 840.00	16.72	25.50	42.22	16.66	
		High	3 940.00	17.00	25.50	42.50	17.77	
	64QAM	Low	3 740.00	16.93	25.50	42.43	17.49	
		Middle	3 840.00	16.60	25.50	42.10	16.21	
		High	3 940.00	17.15	25.50	42.65	18.42	
	256QAM	Low	3 740.00	17.02	25.50	42.52	17.86	
		Middle	3 840.00	16.51	25.50	42.01	15.89	
		High	3 940.00	16.98	25.50	42.48	17.70	
30	QPSK	Low	3 740.00	16.47	25.50	41.97	15.74	
		Middle	3 840.00	16.48	25.50	41.98	15.77	
		High	3 940.00	16.20	25.50	41.70	14.80	
	16QAM	Low	3 740.00	16.63	25.50	42.13	16.32	
		Middle	3 840.00	16.68	25.50	42.18	16.54	
		High	3 940.00	16.78	25.50	42.28	16.89	
	64QAM	Low	3 740.00	16.77	25.50	42.27	16.85	
		Middle	3 840.00	16.61	25.50	42.11	16.26	
		High	3 940.00	16.68	25.50	42.18	16.52	
	256QAM	Low	3 740.00	16.80	25.50	42.30	16.97	
		Middle	3 840.00	16.50	25.50	42.00	15.85	
		High	3 940.00	16.61	25.50	42.11	16.26	
31	QPSK	Low	3 740.00	16.64	25.50	42.14	16.38	
		Middle	3 840.00	17.06	25.50	42.56	18.03	
		High	3 940.00	16.61	25.50	42.11	16.25	
	16QAM	Low	3 740.00	16.76	25.50	42.26	16.84	
		Middle	3 840.00	17.26	25.50	42.76	18.89	
		High	3 940.00	17.17	25.50	42.67	18.47	
	64QAM	Low	3 740.00	16.67	25.50	42.17	16.49	
		Middle	3 840.00	17.36	25.50	42.86	19.32	
		High	3 940.00	17.06	25.50	42.56	18.02	
	256QAM	Low	3 740.00	16.99	25.50	42.49	17.74	
		Middle	3 840.00	17.19	25.50	42.69	18.59	
		High	3 940.00	16.94	25.50	42.44	17.54	



Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
32	QPSK	Low	3 740.00	16.66	25.50	42.16	16.43	
		Middle	3 840.00	16.93	25.50	42.43	17.50	
		High	3 940.00	16.62	25.50	42.12	16.28	
	16QAM	Low	3 740.00	17.03	25.50	42.53	17.91	
		Middle	3 840.00	17.01	25.50	42.51	17.81	
		High	3 940.00	17.06	25.50	42.56	18.01	
	64QAM	Low	3 740.00	16.98	25.50	42.48	17.70	
		Middle	3 840.00	17.14	25.50	42.64	18.36	
		High	3 940.00	17.13	25.50	42.63	18.34	
	256QAM	Low	3 740.00	17.14	25.50	42.64	18.35	
		Middle	3 840.00	16.88	25.50	42.38	17.31	
		High	3 940.00	16.83	25.50	42.33	17.11	
33	QPSK	Low	3 740.00	17.36	25.50	42.86	19.32	1640 (3280)
		Middle	3 840.00	17.46	25.50	42.96	19.79	
		High	3 940.00	17.27	25.50	42.77	18.94	
	16QAM	Low	3 740.00	17.74	25.50	43.24	21.07	
		Middle	3 840.00	17.58	25.50	43.08	20.32	
		High	3 940.00	17.76	25.50	43.26	21.18	
	64QAM	Low	3 740.00	17.79	25.50	43.29	21.32	
		Middle	3 840.00	17.62	25.50	43.12	20.49	
		High	3 940.00	17.57	25.50	43.07	20.27	
	256QAM	Low	3 740.00	17.77	25.50	43.27	21.23	
		Middle	3 840.00	17.51	25.50	43.01	20.02	
		High	3 940.00	17.54	25.50	43.04	20.12	
34	QPSK	Low	3 740.00	16.74	25.50	42.24	16.77	
		Middle	3 840.00	17.01	25.50	42.51	17.82	
		High	3 940.00	16.79	25.50	42.29	16.93	
	16QAM	Low	3 740.00	17.21	25.50	42.71	18.66	
		Middle	3 840.00	17.19	25.50	42.69	18.58	
		High	3 940.00	17.02	25.50	42.52	17.87	
	64QAM	Low	3 740.00	17.05	25.50	42.55	17.99	
		Middle	3 840.00	17.19	25.50	42.69	18.56	
		High	3 940.00	16.87	25.50	42.37	17.24	
	256QAM	Low	3 740.00	17.21	25.50	42.71	18.67	
		Middle	3 840.00	16.90	25.50	42.40	17.37	
		High	3 940.00	16.84	25.50	42.34	17.13	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
35	QPSK	Low	3 740.00	17.34	25.50	42.84	19.24	
		Middle	3 840.00	17.56	25.50	43.06	20.25	
		High	3 940.00	17.06	25.50	42.56	18.05	
	16QAM	Low	3 740.00	17.59	25.50	43.09	20.36	
		Middle	3 840.00	17.55	25.50	43.05	20.20	
		High	3 940.00	17.48	25.50	42.98	19.84	
	64QAM	Low	3 740.00	17.53	25.50	43.03	20.09	
		Middle	3 840.00	17.60	25.50	43.10	20.41	
		High	3 940.00	17.47	25.50	42.97	19.81	
	256QAM	Low	3 740.00	17.74	25.50	43.24	21.09	
		Middle	3 840.00	17.41	25.50	42.91	19.56	
		High	3 940.00	17.33	25.50	42.83	19.19	
36	QPSK	Low	3 740.00	16.79	25.50	42.29	16.94	1640 (3280)
		Middle	3 840.00	16.69	25.50	42.19	16.57	
		High	3 940.00	16.74	25.50	42.24	16.76	
	16QAM	Low	3 740.00	16.98	25.50	42.48	17.70	
		Middle	3 840.00	16.81	25.50	42.31	17.00	
		High	3 940.00	16.91	25.50	42.41	17.40	
	64QAM	Low	3 740.00	16.97	25.50	42.47	17.65	
		Middle	3 840.00	16.96	25.50	42.46	17.60	
		High	3 940.00	16.83	25.50	42.33	17.11	
	256QAM	Low	3 740.00	17.24	25.50	42.74	18.78	
		Middle	3 840.00	16.82	25.50	42.32	17.04	
		High	3 940.00	16.86	25.50	42.36	17.22	
37	QPSK	Low	3 740.00	17.16	25.50	42.66	18.46	
		Middle	3 840.00	17.24	25.50	42.74	18.81	
		High	3 940.00	16.85	25.50	42.35	17.20	
	16QAM	Low	3 740.00	17.47	25.50	42.97	19.79	
		Middle	3 840.00	17.23	25.50	42.73	18.74	
		High	3 940.00	17.17	25.50	42.67	18.48	
	64QAM	Low	3 740.00	17.35	25.50	42.85	19.29	
		Middle	3 840.00	17.39	25.50	42.89	19.43	
		High	3 940.00	17.13	25.50	42.63	18.33	
	256QAM	Low	3 740.00	17.53	25.50	43.03	20.10	
		Middle	3 840.00	17.28	25.50	42.78	18.96	
		High	3 940.00	17.09	25.50	42.59	18.17	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
38	QPSK	Low	3 740.00	16.89	25.50	42.39	17.32	
		Middle	3 840.00	17.03	25.50	42.53	17.92	
		High	3 940.00	16.56	25.50	42.06	16.05	
	16QAM	Low	3 740.00	17.28	25.50	42.78	18.98	
		Middle	3 840.00	17.22	25.50	42.72	18.69	
		High	3 940.00	16.91	25.50	42.41	17.43	
	64QAM	Low	3 740.00	17.14	25.50	42.64	18.37	
		Middle	3 840.00	17.29	25.50	42.79	19.01	
		High	3 940.00	16.85	25.50	42.35	17.20	
	256QAM	Low	3 740.00	17.31	25.50	42.81	19.11	
		Middle	3 840.00	17.09	25.50	42.59	18.15	
		High	3 940.00	16.85	25.50	42.35	17.17	
39	QPSK	Low	3 740.00	17.25	25.50	42.75	18.83	1640 (3280)
		Middle	3 840.00	17.49	25.50	42.99	19.90	
		High	3 940.00	16.86	25.50	42.36	17.24	
	16QAM	Low	3 740.00	17.52	25.50	43.02	20.05	
		Middle	3 840.00	17.54	25.50	43.04	20.13	
		High	3 940.00	17.23	25.50	42.73	18.76	
	64QAM	Low	3 740.00	17.53	25.50	43.03	20.07	
		Middle	3 840.00	17.56	25.50	43.06	20.22	
		High	3 940.00	17.11	25.50	42.61	18.23	
	256QAM	Low	3 740.00	17.65	25.50	43.15	20.67	
		Middle	3 840.00	17.40	25.50	42.90	19.49	
		High	3 940.00	17.02	25.50	42.52	17.85	
40	QPSK	Low	3 740.00	16.69	25.50	42.19	16.56	
		Middle	3 840.00	16.77	25.50	42.27	16.85	
		High	3 940.00	16.69	25.50	42.19	16.54	
	16QAM	Low	3 740.00	16.95	25.50	42.45	17.57	
		Middle	3 840.00	16.89	25.50	42.39	17.32	
		High	3 940.00	17.06	25.50	42.56	18.04	
	64QAM	Low	3 740.00	16.90	25.50	42.40	17.39	
		Middle	3 840.00	17.09	25.50	42.59	18.15	
		High	3 940.00	17.19	25.50	42.69	18.57	
	256QAM	Low	3 740.00	17.02	25.50	42.52	17.85	
		Middle	3 840.00	16.95	25.50	42.45	17.57	
		High	3 940.00	17.15	25.50	42.65	18.41	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
41	QPSK	Low	3 740.00	16.25	25.50	41.75	14.95	
		Middle	3 840.00	16.07	25.50	41.57	14.37	
		High	3 940.00	16.07	25.50	41.57	14.34	
	16QAM	Low	3 740.00	16.43	25.50	41.93	15.58	
		Middle	3 840.00	16.20	25.50	41.70	14.81	
		High	3 940.00	16.48	25.50	41.98	15.76	
	64QAM	Low	3 740.00	16.27	25.50	41.77	15.02	
		Middle	3 840.00	16.40	25.50	41.90	15.48	
		High	3 940.00	16.50	25.50	42.00	15.86	
	256QAM	Low	3 740.00	16.51	25.50	42.01	15.88	
		Middle	3 840.00	16.31	25.50	41.81	15.17	
		High	3 940.00	16.45	25.50	41.95	15.65	
42	QPSK	Low	3 740.00	17.04	25.50	42.54	17.96	1640 (3280)
		Middle	3 840.00	17.34	25.50	42.84	19.24	
		High	3 940.00	17.17	25.50	42.67	18.51	
	16QAM	Low	3 740.00	17.40	25.50	42.90	19.48	
		Middle	3 840.00	17.14	25.50	42.64	18.37	
		High	3 940.00	17.54	25.50	43.04	20.13	
	64QAM	Low	3 740.00	17.32	25.50	42.82	19.15	
		Middle	3 840.00	17.46	25.50	42.96	19.78	
		High	3 940.00	17.58	25.50	43.08	20.32	
	256QAM	Low	3 740.00	17.56	25.50	43.06	20.23	
		Middle	3 840.00	17.36	25.50	42.86	19.32	
		High	3 940.00	17.59	25.50	43.09	20.36	
43	QPSK	Low	3 740.00	17.24	25.50	42.74	18.79	
		Middle	3 840.00	17.19	25.50	42.69	18.57	
		High	3 940.00	17.27	25.50	42.77	18.90	
	16QAM	Low	3 740.00	17.52	25.50	43.02	20.03	
		Middle	3 840.00	17.16	25.50	42.66	18.44	
		High	3 940.00	17.72	25.50	43.22	20.99	
	64QAM	Low	3 740.00	17.32	25.50	42.82	19.12	
		Middle	3 840.00	17.20	25.50	42.70	18.62	
		High	3 940.00	17.58	25.50	43.08	20.32	
	256QAM	Low	3 740.00	17.69	25.50	43.19	20.85	
		Middle	3 840.00	17.36	25.50	42.86	19.30	
		High	3 940.00	17.65	25.50	43.15	20.66	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
44	QPSK	Low	3 740.00	17.00	25.50	42.50	17.77	
		Middle	3 840.00	17.28	25.50	42.78	18.98	
		High	3 940.00	17.19	25.50	42.69	18.57	
	16QAM	Low	3 740.00	17.19	25.50	42.69	18.58	
		Middle	3 840.00	17.34	25.50	42.84	19.25	
		High	3 940.00	17.66	25.50	43.16	20.72	
	64QAM	Low	3 740.00	17.09	25.50	42.59	18.16	
		Middle	3 840.00	17.48	25.50	42.98	19.87	
		High	3 940.00	17.66	25.50	43.16	20.69	
	256QAM	Low	3 740.00	17.54	25.50	43.04	20.13	
		Middle	3 840.00	17.46	25.50	42.96	19.78	
		High	3 940.00	17.58	25.50	43.08	20.32	
45	QPSK	Low	3 740.00	16.66	25.50	42.16	16.43	1640 (3280)
		Middle	3 840.00	16.60	25.50	42.10	16.22	
		High	3 940.00	16.80	25.50	42.30	16.99	
	16QAM	Low	3 740.00	16.90	25.50	42.40	17.38	
		Middle	3 840.00	16.62	25.50	42.12	16.28	
		High	3 940.00	17.05	25.50	42.55	17.99	
	64QAM	Low	3 740.00	16.83	25.50	42.33	17.09	
		Middle	3 840.00	16.84	25.50	42.34	17.15	
		High	3 940.00	17.10	25.50	42.60	18.20	
	256QAM	Low	3 740.00	17.01	25.50	42.51	17.83	
		Middle	3 840.00	16.79	25.50	42.29	16.95	
		High	3 940.00	17.09	25.50	42.59	18.15	
46	QPSK	Low	3 740.00	16.96	25.50	42.46	17.63	
		Middle	3 840.00	16.99	25.50	42.49	17.72	
		High	3 940.00	17.33	25.50	42.83	19.19	
	16QAM	Low	3 740.00	17.13	25.50	42.63	18.32	
		Middle	3 840.00	17.20	25.50	42.70	18.61	
		High	3 940.00	17.73	25.50	43.23	21.03	
	64QAM	Low	3 740.00	16.95	25.50	42.45	17.58	
		Middle	3 840.00	17.29	25.50	42.79	19.02	
		High	3 940.00	17.60	25.50	43.10	20.40	
	256QAM	Low	3 740.00	17.26	25.50	42.76	18.87	
		Middle	3 840.00	17.31	25.50	42.81	19.08	
		High	3 940.00	17.70	25.50	43.20	20.88	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
47	QPSK	Low	3 740.00	16.78	25.50	42.28	16.91	
		Middle	3 840.00	16.52	25.50	42.02	15.93	
		High	3 940.00	16.85	25.50	42.35	17.16	
	16QAM	Low	3 740.00	17.04	25.50	42.54	17.95	
		Middle	3 840.00	16.88	25.50	42.38	17.30	
		High	3 940.00	17.21	25.50	42.71	18.68	
	64QAM	Low	3 740.00	16.75	25.50	42.25	16.78	
		Middle	3 840.00	16.99	25.50	42.49	17.75	
		High	3 940.00	17.26	25.50	42.76	18.87	
	256QAM	Low	3 740.00	17.20	25.50	42.70	18.63	
		Middle	3 840.00	16.88	25.50	42.38	17.31	
		High	3 940.00	17.18	25.50	42.68	18.53	
48	QPSK	Low	3 740.00	17.25	25.50	42.75	18.84	1640 (3280)
		Middle	3 840.00	17.18	25.50	42.68	18.52	
		High	3 940.00	17.13	25.50	42.63	18.31	
	16QAM	Low	3 740.00	17.36	25.50	42.86	19.34	
		Middle	3 840.00	17.49	25.50	42.99	19.91	
		High	3 940.00	17.27	25.50	42.77	18.94	
	64QAM	Low	3 740.00	17.20	25.50	42.70	18.61	
		Middle	3 840.00	17.39	25.50	42.89	19.47	
		High	3 940.00	17.19	25.50	42.69	18.59	
	256QAM	Low	3 740.00	17.67	25.50	43.17	20.75	
		Middle	3 840.00	17.36	25.50	42.86	19.34	
		High	3 940.00	17.18	25.50	42.68	18.52	
49	QPSK	Low	3 740.00	16.70	25.50	42.20	16.60	
		Middle	3 840.00	16.82	25.50	42.32	17.07	
		High	3 940.00	16.47	25.50	41.97	15.72	
	16QAM	Low	3 740.00	16.87	25.50	42.37	17.26	
		Middle	3 840.00	16.91	25.50	42.41	17.42	
		High	3 940.00	16.66	25.50	42.16	16.45	
	64QAM	Low	3 740.00	16.86	25.50	42.36	17.21	
		Middle	3 840.00	16.77	25.50	42.27	16.86	
		High	3 940.00	16.65	25.50	42.15	16.42	
	256QAM	Low	3 740.00	17.10	25.50	42.60	18.18	
		Middle	3 840.00	16.74	25.50	42.24	16.76	
		High	3 940.00	16.55	25.50	42.05	16.03	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
50	QPSK	Low	3 740.00	17.49	25.50	42.99	19.89	
		Middle	3 840.00	17.63	25.50	43.13	20.58	
		High	3 940.00	17.36	25.50	42.86	19.34	
	16QAM	Low	3 740.00	17.61	25.50	43.11	20.45	
		Middle	3 840.00	17.73	25.50	43.23	21.05	
		High	3 940.00	17.58	25.50	43.08	20.34	
	64QAM	Low	3 740.00	17.56	25.50	43.06	20.21	
		Middle	3 840.00	17.79	25.50	43.29	21.32	
		High	3 940.00	17.35	25.50	42.85	19.27	
	256QAM	Low	3 740.00	17.78	25.50	43.28	21.27	
		Middle	3 840.00	17.70	25.50	43.20	20.88	
		High	3 940.00	17.36	25.50	42.86	19.34	
51	QPSK	Low	3 740.00	17.86	25.50	43.36	21.69	1640 (3280)
		Middle	3 840.00	17.68	25.50	43.18	20.81	
		High	3 940.00	17.54	25.50	43.04	20.14	
	16QAM	Low	3 740.00	18.05	25.50	43.55	22.63	
		Middle	3 840.00	17.78	25.50	43.28	21.27	
		High	3 940.00	17.95	25.50	43.45	22.11	
	64QAM	Low	3 740.00	17.82	25.50	43.32	21.48	
		Middle	3 840.00	17.86	25.50	43.36	21.69	
		High	3 940.00	17.78	25.50	43.28	21.28	
	256QAM	Low	3 740.00	18.15	25.50	43.65	23.15	
		Middle	3 840.00	17.71	25.50	43.21	20.94	
		High	3 940.00	17.80	25.50	43.30	21.36	
52	QPSK	Low	3 740.00	17.37	25.50	42.87	19.39	
		Middle	3 840.00	17.51	25.50	43.01	20.02	
		High	3 940.00	17.23	25.50	42.73	18.77	
	16QAM	Low	3 740.00	17.67	25.50	43.17	20.73	
		Middle	3 840.00	17.73	25.50	43.23	21.01	
		High	3 940.00	17.62	25.50	43.12	20.50	
	64QAM	Low	3 740.00	17.58	25.50	43.08	20.33	
		Middle	3 840.00	17.61	25.50	43.11	20.47	
		High	3 940.00	17.37	25.50	42.87	19.38	
	256QAM	Low	3 740.00	17.87	25.50	43.37	21.74	
		Middle	3 840.00	17.48	25.50	42.98	19.85	
		High	3 940.00	17.32	25.50	42.82	19.15	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
53	QPSK	Low	3 740.00	17.23	25.50	42.73	18.75	
		Middle	3 840.00	16.83	25.50	42.33	17.11	
		High	3 940.00	17.07	25.50	42.57	18.06	
	16QAM	Low	3 740.00	17.48	25.50	42.98	19.85	
		Middle	3 840.00	17.29	25.50	42.79	19.02	
		High	3 940.00	17.37	25.50	42.87	19.37	
	64QAM	Low	3 740.00	17.30	25.50	42.80	19.08	
		Middle	3 840.00	17.23	25.50	42.73	18.76	
		High	3 940.00	17.25	25.50	42.75	18.82	
	256QAM	Low	3 740.00	17.66	25.50	43.16	20.70	
		Middle	3 840.00	17.11	25.50	42.61	18.24	
		High	3 940.00	17.12	25.50	42.62	18.28	
54	QPSK	Low	3 740.00	16.78	25.50	42.28	16.91	1640 (3280)
		Middle	3 840.00	17.00	25.50	42.50	17.78	
		High	3 940.00	16.50	25.50	42.00	15.85	
	16QAM	Low	3 740.00	16.96	25.50	42.46	17.63	
		Middle	3 840.00	17.00	25.50	42.50	17.79	
		High	3 940.00	16.68	25.50	42.18	16.50	
	64QAM	Low	3 740.00	16.88	25.50	42.38	17.30	
		Middle	3 840.00	17.04	25.50	42.54	17.94	
		High	3 940.00	16.56	25.50	42.06	16.07	
	256QAM	Low	3 740.00	17.22	25.50	42.72	18.70	
		Middle	3 840.00	16.91	25.50	42.41	17.42	
		High	3 940.00	16.25	25.50	41.75	14.95	
55	QPSK	Low	3 740.00	17.08	25.50	42.58	18.13	
		Middle	3 840.00	16.90	25.50	42.40	17.38	
		High	3 940.00	16.54	25.50	42.04	15.98	
	16QAM	Low	3 740.00	17.17	25.50	42.67	18.50	
		Middle	3 840.00	16.93	25.50	42.43	17.50	
		High	3 940.00	16.55	25.50	42.05	16.05	
	64QAM	Low	3 740.00	17.15	25.50	42.65	18.41	
		Middle	3 840.00	17.06	25.50	42.56	18.04	
		High	3 940.00	16.50	25.50	42.00	15.85	
	256QAM	Low	3 740.00	17.55	25.50	43.05	20.17	
		Middle	3 840.00	16.85	25.50	42.35	17.19	
		High	3 940.00	16.34	25.50	41.84	15.28	



Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
56	QPSK	Low	3 740.00	16.77	25.50	42.27	16.85	
		Middle	3 840.00	16.80	25.50	42.30	16.97	
		High	3 940.00	17.00	25.50	42.50	17.79	
	16QAM	Low	3 740.00	16.98	25.50	42.48	17.70	
		Middle	3 840.00	17.02	25.50	42.52	17.85	
		High	3 940.00	17.25	25.50	42.75	18.83	
	64QAM	Low	3 740.00	16.93	25.50	42.43	17.48	
		Middle	3 840.00	16.93	25.50	42.43	17.50	
		High	3 940.00	17.25	25.50	42.75	18.83	
	256QAM	Low	3 740.00	17.38	25.50	42.88	19.41	
		Middle	3 840.00	17.19	25.50	42.69	18.58	
		High	3 940.00	17.17	25.50	42.67	18.47	
57	QPSK	Low	3 740.00	17.18	25.50	42.68	18.54	1640 (3280)
		Middle	3 840.00	16.79	25.50	42.29	16.93	
		High	3 940.00	17.18	25.50	42.68	18.52	
	16QAM	Low	3 740.00	17.37	25.50	42.87	19.36	
		Middle	3 840.00	17.21	25.50	42.71	18.68	
		High	3 940.00	17.61	25.50	43.11	20.47	
	64QAM	Low	3 740.00	17.39	25.50	42.89	19.47	
		Middle	3 840.00	17.26	25.50	42.76	18.87	
		High	3 940.00	17.60	25.50	43.10	20.41	
	256QAM	Low	3 740.00	17.75	25.50	43.25	21.12	
		Middle	3 840.00	17.33	25.50	42.83	19.19	
		High	3 940.00	17.70	25.50	43.20	20.88	
58	QPSK	Low	3 740.00	16.29	25.50	41.79	15.09	
		Middle	3 840.00	16.24	25.50	41.74	14.92	
		High	3 940.00	16.31	25.50	41.81	15.17	
	16QAM	Low	3 740.00	16.52	25.50	42.02	15.93	
		Middle	3 840.00	16.45	25.50	41.95	15.65	
		High	3 940.00	16.75	25.50	42.25	16.79	
	64QAM	Low	3 740.00	16.53	25.50	42.03	15.96	
		Middle	3 840.00	16.49	25.50	41.99	15.82	
		High	3 940.00	16.71	25.50	42.21	16.64	
	256QAM	Low	3 740.00	16.86	25.50	42.36	17.22	
		Middle	3 840.00	16.54	25.50	42.04	16.01	
		High	3 940.00	16.60	25.50	42.10	16.22	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
59	QPSK	Low	3 740.00	16.38	25.50	41.88	15.42	
		Middle	3 840.00	16.21	25.50	41.71	14.82	
		High	3 940.00	16.36	25.50	41.86	15.34	
	16QAM	Low	3 740.00	16.45	25.50	41.95	15.68	
		Middle	3 840.00	16.42	25.50	41.92	15.55	
		High	3 940.00	16.75	25.50	42.25	16.78	
	64QAM	Low	3 740.00	16.52	25.50	42.02	15.93	
		Middle	3 840.00	16.37	25.50	41.87	15.38	
		High	3 940.00	16.65	25.50	42.15	16.40	
	256QAM	Low	3 740.00	16.90	25.50	42.40	17.37	
		Middle	3 840.00	16.65	25.50	42.15	16.41	
		High	3 940.00	16.67	25.50	42.17	16.47	
60	QPSK	Low	3 740.00	16.82	25.50	42.32	17.05	1640 (3280)
		Middle	3 840.00	16.87	25.50	42.37	17.24	
		High	3 940.00	16.84	25.50	42.34	17.14	
	16QAM	Low	3 740.00	16.97	25.50	42.47	17.64	
		Middle	3 840.00	17.06	25.50	42.56	18.03	
		High	3 940.00	17.27	25.50	42.77	18.92	
	64QAM	Low	3 740.00	16.90	25.50	42.40	17.37	
		Middle	3 840.00	17.11	25.50	42.61	18.24	
		High	3 940.00	17.23	25.50	42.73	18.73	
	256QAM	Low	3 740.00	17.13	25.50	42.63	18.32	
		Middle	3 840.00	17.19	25.50	42.69	18.59	
		High	3 940.00	17.13	25.50	42.63	18.33	
61	QPSK	Low	3 740.00	16.47	25.50	41.97	15.73	
		Middle	3 840.00	16.27	25.50	41.77	15.02	
		High	3 940.00	16.56	25.50	42.06	16.06	
	16QAM	Low	3 740.00	16.75	25.50	42.25	16.80	
		Middle	3 840.00	16.63	25.50	42.13	16.32	
		High	3 940.00	16.85	25.50	42.35	17.18	
	64QAM	Low	3 740.00	16.69	25.50	42.19	16.57	
		Middle	3 840.00	16.65	25.50	42.15	16.42	
		High	3 940.00	16.86	25.50	42.36	17.23	
	256QAM	Low	3 740.00	17.05	25.50	42.55	17.99	
		Middle	3 840.00	16.71	25.50	42.21	16.64	
		High	3 940.00	16.87	25.50	42.37	17.25	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
62	QPSK	Low	3 740.00	16.17	25.50	41.67	14.69	1640 (3280)
		Middle	3 840.00	16.13	25.50	41.63	14.57	
		High	3 940.00	16.24	25.50	41.74	14.93	
	16QAM	Low	3 740.00	16.35	25.50	41.85	15.33	
		Middle	3 840.00	16.47	25.50	41.97	15.72	
		High	3 940.00	16.55	25.50	42.05	16.02	
	64QAM	Low	3 740.00	16.41	25.50	41.91	15.52	
		Middle	3 840.00	16.42	25.50	41.92	15.55	
		High	3 940.00	16.41	25.50	41.91	15.51	
	256QAM	Low	3 740.00	16.65	25.50	42.15	16.39	
		Middle	3 840.00	16.53	25.50	42.03	15.96	
		High	3 940.00	16.55	25.50	42.05	16.02	
63	QPSK	Low	3 740.00	16.61	25.50	42.11	16.27	
		Middle	3 840.00	16.60	25.50	42.10	16.21	
		High	3 940.00	16.51	25.50	42.01	15.87	
	16QAM	Low	3 740.00	16.78	25.50	42.28	16.92	
		Middle	3 840.00	16.82	25.50	42.32	17.06	
		High	3 940.00	16.87	25.50	42.37	17.27	
	64QAM	Low	3 740.00	16.87	25.50	42.37	17.26	
		Middle	3 840.00	16.85	25.50	42.35	17.19	
		High	3 940.00	16.77	25.50	42.27	16.87	
	256QAM	Low	3 740.00	17.10	25.50	42.60	18.18	
		Middle	3 840.00	16.76	25.50	42.26	16.84	
		High	3 940.00	16.72	25.50	42.22	16.66	

**Sum Data of Port 0 ~ Port 63**

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
3 740.00	1 147.77	1 210.32	1 200.38	1 258.72	1640 (3280)
3 840.00	1 163.74	1 212.47	1 223.84	1 195.60	
3 940.00	1 124.30	1 218.72	1 217.14	1 211.72	

## Tabular Data of Contiguous PSD

## (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier]

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	Low	3 770.00	14.83	25.50	40.33	10.80	1640 (3280)
	16QAM	Low	3 770.00	14.37	25.50	39.87	9.70	
	64QAM	Low	3 770.00	15.47	25.50	40.97	12.49	
	256QAM	Low	3 770.00	14.65	25.50	40.15	10.36	
1	QPSK	Low	3 770.00	15.26	25.50	40.76	11.91	
	16QAM	Low	3 770.00	15.15	25.50	40.65	11.62	
	64QAM	Low	3 770.00	15.63	25.50	41.13	12.97	
	256QAM	Low	3 770.00	15.38	25.50	40.88	12.25	
2	QPSK	Low	3 770.00	14.48	25.50	39.98	9.96	
	16QAM	Low	3 770.00	14.31	25.50	39.81	9.58	
	64QAM	Low	3 770.00	15.09	25.50	40.59	11.46	
	256QAM	Low	3 770.00	14.58	25.50	40.08	10.19	
3	QPSK	Low	3 770.00	14.95	25.50	40.45	11.09	
	16QAM	Low	3 770.00	14.92	25.50	40.42	11.01	
	64QAM	Low	3 770.00	15.45	25.50	40.95	12.43	
	256QAM	Low	3 770.00	15.27	25.50	40.77	11.94	
4	QPSK	Low	3 770.00	14.31	25.50	39.81	9.57	
	16QAM	Low	3 770.00	14.51	25.50	40.01	10.02	
	64QAM	Low	3 770.00	15.39	25.50	40.89	12.28	
	256QAM	Low	3 770.00	14.85	25.50	40.35	10.85	
5	QPSK	Low	3 770.00	14.73	25.50	40.23	10.55	
	16QAM	Low	3 770.00	14.71	25.50	40.21	10.48	
	64QAM	Low	3 770.00	14.82	25.50	40.32	10.76	
	256QAM	Low	3 770.00	14.96	25.50	40.46	11.11	
6	QPSK	Low	3 770.00	14.68	25.50	40.18	10.42	
	16QAM	Low	3 770.00	14.56	25.50	40.06	10.14	
	64QAM	Low	3 770.00	14.95	25.50	40.45	11.08	
	256QAM	Low	3 770.00	15.00	25.50	40.50	11.23	
7	QPSK	Low	3 770.00	14.79	25.50	40.29	10.70	
	16QAM	Low	3 770.00	14.82	25.50	40.32	10.75	
	64QAM	Low	3 770.00	15.37	25.50	40.87	12.22	
	256QAM	Low	3 770.00	15.05	25.50	40.55	11.34	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
8	QPSK	Low	3 770.00	14.31	25.50	39.81	9.58	1640 (3280)
	16QAM	Low	3 770.00	14.28	25.50	39.78	9.51	
	64QAM	Low	3 770.00	15.04	25.50	40.54	11.32	
	256QAM	Low	3 770.00	14.63	25.50	40.13	10.29	
9	QPSK	Low	3 770.00	13.76	25.50	39.26	8.43	
	16QAM	Low	3 770.00	13.87	25.50	39.37	8.65	
	64QAM	Low	3 770.00	14.61	25.50	40.11	10.25	
	256QAM	Low	3 770.00	14.22	25.50	39.72	9.37	
10	QPSK	Low	3 770.00	14.60	25.50	40.10	10.23	
	16QAM	Low	3 770.00	14.86	25.50	40.36	10.86	
	64QAM	Low	3 770.00	15.51	25.50	41.01	12.61	
	256QAM	Low	3 770.00	15.22	25.50	40.72	11.80	
11	QPSK	Low	3 770.00	15.02	25.50	40.52	11.27	
	16QAM	Low	3 770.00	15.23	25.50	40.73	11.84	
	64QAM	Low	3 770.00	15.96	25.50	41.46	13.99	
	256QAM	Low	3 770.00	15.55	25.50	41.05	12.74	
12	QPSK	Low	3 770.00	14.84	25.50	40.34	10.81	
	16QAM	Low	3 770.00	14.90	25.50	40.40	10.96	
	64QAM	Low	3 770.00	15.49	25.50	40.99	12.57	
	256QAM	Low	3 770.00	15.19	25.50	40.69	11.72	
13	QPSK	Low	3 770.00	14.46	25.50	39.96	9.92	
	16QAM	Low	3 770.00	14.55	25.50	40.05	10.11	
	64QAM	Low	3 770.00	14.73	25.50	40.23	10.55	
	256QAM	Low	3 770.00	14.85	25.50	40.35	10.85	
14	QPSK	Low	3 770.00	14.77	25.50	40.27	10.64	
	16QAM	Low	3 770.00	14.86	25.50	40.36	10.87	
	64QAM	Low	3 770.00	15.12	25.50	40.62	11.53	
	256QAM	Low	3 770.00	15.15	25.50	40.65	11.62	
15	QPSK	Low	3 770.00	14.57	25.50	40.07	10.16	
	16QAM	Low	3 770.00	14.65	25.50	40.15	10.35	
	64QAM	Low	3 770.00	15.21	25.50	40.71	11.77	
	256QAM	Low	3 770.00	15.06	25.50	40.56	11.38	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
16	QPSK	Low	3 770.00	14.61	25.50	40.11	10.27	1640 (3280)
	16QAM	Low	3 770.00	14.79	25.50	40.29	10.70	
	64QAM	Low	3 770.00	14.67	25.50	40.17	10.41	
	256QAM	Low	3 770.00	14.95	25.50	40.45	11.08	
17	QPSK	Low	3 770.00	13.95	25.50	39.45	8.81	
	16QAM	Low	3 770.00	14.06	25.50	39.56	9.04	
	64QAM	Low	3 770.00	14.54	25.50	40.04	10.09	
	256QAM	Low	3 770.00	14.43	25.50	39.93	9.84	
18	QPSK	Low	3 770.00	14.81	25.50	40.31	10.73	
	16QAM	Low	3 770.00	14.66	25.50	40.16	10.38	
	64QAM	Low	3 770.00	15.08	25.50	40.58	11.43	
	256QAM	Low	3 770.00	15.14	25.50	40.64	11.60	
19	QPSK	Low	3 770.00	15.05	25.50	40.55	11.36	
	16QAM	Low	3 770.00	15.14	25.50	40.64	11.60	
	64QAM	Low	3 770.00	15.30	25.50	40.80	12.01	
	256QAM	Low	3 770.00	15.48	25.50	40.98	12.54	
20	QPSK	Low	3 770.00	14.63	25.50	40.13	10.31	
	16QAM	Low	3 770.00	14.83	25.50	40.33	10.80	
	64QAM	Low	3 770.00	15.16	25.50	40.66	11.64	
	256QAM	Low	3 770.00	14.85	25.50	40.35	10.83	
21	QPSK	Low	3 770.00	14.64	25.50	40.14	10.32	
	16QAM	Low	3 770.00	15.03	25.50	40.53	11.30	
	64QAM	Low	3 770.00	15.44	25.50	40.94	12.42	
	256QAM	Low	3 770.00	15.07	25.50	40.57	11.41	
22	QPSK	Low	3 770.00	14.29	25.50	39.79	9.53	
	16QAM	Low	3 770.00	14.37	25.50	39.87	9.70	
	64QAM	Low	3 770.00	14.60	25.50	40.10	10.24	
	256QAM	Low	3 770.00	14.35	25.50	39.85	9.65	
23	QPSK	Low	3 770.00	14.49	25.50	39.99	9.97	
	16QAM	Low	3 770.00	14.44	25.50	39.94	9.86	
	64QAM	Low	3 770.00	14.44	25.50	39.94	9.86	
	256QAM	Low	3 770.00	14.56	25.50	40.06	10.15	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
24	QPSK	Low	3 770.00	14.40	25.50	39.90	9.77	1640 (3280)
	16QAM	Low	3 770.00	14.77	25.50	40.27	10.65	
	64QAM	Low	3 770.00	14.68	25.50	40.18	10.41	
	256QAM	Low	3 770.00	14.78	25.50	40.28	10.66	
25	QPSK	Low	3 770.00	15.10	25.50	40.60	11.47	
	16QAM	Low	3 770.00	15.45	25.50	40.95	12.45	
	64QAM	Low	3 770.00	15.26	25.50	40.76	11.92	
	256QAM	Low	3 770.00	15.29	25.50	40.79	12.00	
26	QPSK	Low	3 770.00	14.32	25.50	39.82	9.60	
	16QAM	Low	3 770.00	14.48	25.50	39.98	9.94	
	64QAM	Low	3 770.00	14.78	25.50	40.28	10.68	
	256QAM	Low	3 770.00	14.50	25.50	40.00	10.00	
27	QPSK	Low	3 770.00	14.19	25.50	39.69	9.31	
	16QAM	Low	3 770.00	14.38	25.50	39.88	9.72	
	64QAM	Low	3 770.00	14.67	25.50	40.17	10.40	
	256QAM	Low	3 770.00	14.23	25.50	39.73	9.40	
28	QPSK	Low	3 770.00	14.73	25.50	40.23	10.54	
	16QAM	Low	3 770.00	14.97	25.50	40.47	11.15	
	64QAM	Low	3 770.00	14.89	25.50	40.39	10.94	
	256QAM	Low	3 770.00	15.10	25.50	40.60	11.48	
29	QPSK	Low	3 770.00	14.21	25.50	39.71	9.36	
	16QAM	Low	3 770.00	14.54	25.50	40.04	10.10	
	64QAM	Low	3 770.00	14.34	25.50	39.84	9.64	
	256QAM	Low	3 770.00	14.46	25.50	39.96	9.91	
30	QPSK	Low	3 770.00	14.06	25.50	39.56	9.03	
	16QAM	Low	3 770.00	14.38	25.50	39.88	9.72	
	64QAM	Low	3 770.00	14.56	25.50	40.06	10.14	
	256QAM	Low	3 770.00	14.21	25.50	39.71	9.36	
31	QPSK	Low	3 770.00	14.25	25.50	39.75	9.44	
	16QAM	Low	3 770.00	14.56	25.50	40.06	10.15	
	64QAM	Low	3 770.00	14.55	25.50	40.05	10.13	
	256QAM	Low	3 770.00	14.45	25.50	39.95	9.88	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
32	QPSK	Low	3 770.00	14.48	25.50	39.98	9.95	1640 (3280)
	16QAM	Low	3 770.00	14.85	25.50	40.35	10.83	
	64QAM	Low	3 770.00	14.59	25.50	40.09	10.21	
	256QAM	Low	3 770.00	14.70	25.50	40.20	10.47	
33	QPSK	Low	3 770.00	15.32	25.50	40.82	12.09	
	16QAM	Low	3 770.00	15.48	25.50	40.98	12.54	
	64QAM	Low	3 770.00	15.48	25.50	40.98	12.52	
	256QAM	Low	3 770.00	15.50	25.50	41.00	12.58	
34	QPSK	Low	3 770.00	14.70	25.50	40.20	10.48	
	16QAM	Low	3 770.00	14.66	25.50	40.16	10.38	
	64QAM	Low	3 770.00	14.64	25.50	40.14	10.32	
	256QAM	Low	3 770.00	14.50	25.50	40.00	9.99	
35	QPSK	Low	3 770.00	15.15	25.50	40.65	11.60	
	16QAM	Low	3 770.00	15.37	25.50	40.87	12.22	
	64QAM	Low	3 770.00	15.54	25.50	41.04	12.70	
	256QAM	Low	3 770.00	15.32	25.50	40.82	12.08	
36	QPSK	Low	3 770.00	14.52	25.50	40.02	10.05	
	16QAM	Low	3 770.00	14.82	25.50	40.32	10.76	
	64QAM	Low	3 770.00	14.46	25.50	39.96	9.91	
	256QAM	Low	3 770.00	14.65	25.50	40.15	10.34	
37	QPSK	Low	3 770.00	15.00	25.50	40.50	11.23	
	16QAM	Low	3 770.00	15.17	25.50	40.67	11.67	
	64QAM	Low	3 770.00	15.31	25.50	40.81	12.04	
	256QAM	Low	3 770.00	15.03	25.50	40.53	11.29	
38	QPSK	Low	3 770.00	14.61	25.50	40.11	10.25	
	16QAM	Low	3 770.00	14.68	25.50	40.18	10.42	
	64QAM	Low	3 770.00	14.86	25.50	40.36	10.86	
	256QAM	Low	3 770.00	14.87	25.50	40.37	10.88	
39	QPSK	Low	3 770.00	15.04	25.50	40.54	11.33	
	16QAM	Low	3 770.00	15.12	25.50	40.62	11.55	
	64QAM	Low	3 770.00	15.08	25.50	40.58	11.43	
	256QAM	Low	3 770.00	15.11	25.50	40.61	11.50	



Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
40	QPSK	Low	3 770.00	14.96	25.50	40.46	11.11	1640 (3280)
	16QAM	Low	3 770.00	15.10	25.50	40.60	11.47	
	64QAM	Low	3 770.00	15.28	25.50	40.78	11.97	
	256QAM	Low	3 770.00	14.98	25.50	40.48	11.18	
41	QPSK	Low	3 770.00	14.34	25.50	39.84	9.64	
	16QAM	Low	3 770.00	14.50	25.50	40.00	9.99	
	64QAM	Low	3 770.00	14.69	25.50	40.19	10.44	
	256QAM	Low	3 770.00	14.43	25.50	39.93	9.84	
42	QPSK	Low	3 770.00	15.33	25.50	40.83	12.10	
	16QAM	Low	3 770.00	15.51	25.50	41.01	12.61	
	64QAM	Low	3 770.00	15.42	25.50	40.92	12.35	
	256QAM	Low	3 770.00	15.33	25.50	40.83	12.12	
43	QPSK	Low	3 770.00	15.41	25.50	40.91	12.34	
	16QAM	Low	3 770.00	15.66	25.50	41.16	13.07	
	64QAM	Low	3 770.00	15.53	25.50	41.03	12.67	
	256QAM	Low	3 770.00	15.43	25.50	40.93	12.38	
44	QPSK	Low	3 770.00	15.56	25.50	41.06	12.78	
	16QAM	Low	3 770.00	15.60	25.50	41.10	12.90	
	64QAM	Low	3 770.00	15.58	25.50	41.08	12.82	
	256QAM	Low	3 770.00	15.32	25.50	40.82	12.07	
45	QPSK	Low	3 770.00	14.95	25.50	40.45	11.10	
	16QAM	Low	3 770.00	15.21	25.50	40.71	11.78	
	64QAM	Low	3 770.00	15.15	25.50	40.65	11.61	
	256QAM	Low	3 770.00	14.89	25.50	40.39	10.94	
46	QPSK	Low	3 770.00	15.25	25.50	40.75	11.88	
	16QAM	Low	3 770.00	15.59	25.50	41.09	12.84	
	64QAM	Low	3 770.00	15.32	25.50	40.82	12.07	
	256QAM	Low	3 770.00	15.24	25.50	40.74	11.86	
47	QPSK	Low	3 770.00	14.91	25.50	40.41	11.00	
	16QAM	Low	3 770.00	15.03	25.50	40.53	11.29	
	64QAM	Low	3 770.00	15.12	25.50	40.62	11.54	
	256QAM	Low	3 770.00	14.99	25.50	40.49	11.19	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
48	QPSK	Low	3 770.00	14.94	25.50	40.44	11.07	1640 (3280)
	16QAM	Low	3 770.00	15.18	25.50	40.68	11.68	
	64QAM	Low	3 770.00	15.29	25.50	40.79	11.99	
	256QAM	Low	3 770.00	14.88	25.50	40.38	10.92	
49	QPSK	Low	3 770.00	14.30	25.50	39.80	9.56	
	16QAM	Low	3 770.00	14.31	25.50	39.81	9.58	
	64QAM	Low	3 770.00	14.37	25.50	39.87	9.71	
	256QAM	Low	3 770.00	14.45	25.50	39.95	9.89	
50	QPSK	Low	3 770.00	15.12	25.50	40.62	11.54	
	16QAM	Low	3 770.00	15.29	25.50	40.79	11.99	
	64QAM	Low	3 770.00	15.11	25.50	40.61	11.50	
	256QAM	Low	3 770.00	15.13	25.50	40.63	11.56	
51	QPSK	Low	3 770.00	15.40	25.50	40.90	12.30	
	16QAM	Low	3 770.00	15.48	25.50	40.98	12.55	
	64QAM	Low	3 770.00	15.77	25.50	41.27	13.39	
	256QAM	Low	3 770.00	15.67	25.50	41.17	13.11	
52	QPSK	Low	3 770.00	15.12	25.50	40.62	11.54	
	16QAM	Low	3 770.00	15.35	25.50	40.85	12.17	
	64QAM	Low	3 770.00	15.38	25.50	40.88	12.26	
	256QAM	Low	3 770.00	15.12	25.50	40.62	11.54	
53	QPSK	Low	3 770.00	14.91	25.50	40.41	10.99	
	16QAM	Low	3 770.00	15.32	25.50	40.82	12.08	
	64QAM	Low	3 770.00	15.43	25.50	40.93	12.38	
	256QAM	Low	3 770.00	15.36	25.50	40.86	12.19	
54	QPSK	Low	3 770.00	14.33	25.50	39.83	9.61	
	16QAM	Low	3 770.00	14.46	25.50	39.96	9.90	
	64QAM	Low	3 770.00	14.56	25.50	40.06	10.15	
	256QAM	Low	3 770.00	14.59	25.50	40.09	10.21	
55	QPSK	Low	3 770.00	14.23	25.50	39.73	9.41	
	16QAM	Low	3 770.00	14.28	25.50	39.78	9.51	
	64QAM	Low	3 770.00	14.43	25.50	39.93	9.84	
	256QAM	Low	3 770.00	14.52	25.50	40.02	10.05	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
56	QPSK	Low	3 770.00	15.03	25.50	40.53	11.29	1640 (3280)
	16QAM	Low	3 770.00	14.90	25.50	40.40	10.96	
	64QAM	Low	3 770.00	14.93	25.50	40.43	11.03	
	256QAM	Low	3 770.00	14.96	25.50	40.46	11.13	
57	QPSK	Low	3 770.00	15.41	25.50	40.91	12.33	
	16QAM	Low	3 770.00	15.59	25.50	41.09	12.87	
	64QAM	Low	3 770.00	15.52	25.50	41.02	12.65	
	256QAM	Low	3 770.00	15.56	25.50	41.06	12.77	
58	QPSK	Low	3 770.00	14.43	25.50	39.93	9.84	
	16QAM	Low	3 770.00	14.39	25.50	39.89	9.76	
	64QAM	Low	3 770.00	14.42	25.50	39.92	9.82	
	256QAM	Low	3 770.00	14.61	25.50	40.11	10.26	
59	QPSK	Low	3 770.00	14.53	25.50	40.03	10.07	
	16QAM	Low	3 770.00	14.60	25.50	40.10	10.23	
	64QAM	Low	3 770.00	14.56	25.50	40.06	10.14	
	256QAM	Low	3 770.00	14.73	25.50	40.23	10.54	
60	QPSK	Low	3 770.00	15.03	25.50	40.53	11.29	
	16QAM	Low	3 770.00	15.03	25.50	40.53	11.30	
	64QAM	Low	3 770.00	15.15	25.50	40.65	11.61	
	256QAM	Low	3 770.00	15.34	25.50	40.84	12.14	
61	QPSK	Low	3 770.00	14.64	25.50	40.14	10.32	
	16QAM	Low	3 770.00	14.82	25.50	40.32	10.76	
	64QAM	Low	3 770.00	14.90	25.50	40.40	10.96	
	256QAM	Low	3 770.00	14.82	25.50	40.32	10.76	
62	QPSK	Low	3 770.00	14.36	25.50	39.86	9.68	
	16QAM	Low	3 770.00	14.25	25.50	39.75	9.44	
	64QAM	Low	3 770.00	14.37	25.50	39.87	9.70	
	256QAM	Low	3 770.00	14.33	25.50	39.83	9.62	
63	QPSK	Low	3 770.00	14.69	25.50	40.19	10.45	
	16QAM	Low	3 770.00	14.72	25.50	40.22	10.53	
	64QAM	Low	3 770.00	14.72	25.50	40.22	10.51	
	256QAM	Low	3 770.00	14.74	25.50	40.24	10.57	

Sum Data of Port 0 ~ Port 63

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
3 770.00	676.07	695.31	725.78	706.81	1640 (3280)

**(64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] (Asymmetric)**

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	Low	3 770.00	17.18	25.50	42.68	18.54	1640 (3280)
	16QAM	Low	3 770.00	16.90	25.50	42.40	17.40	
	64QAM	Low	3 770.00	17.11	25.50	42.61	18.23	
	256QAM	Low	3 770.00	17.30	25.50	42.80	19.05	
1	QPSK	Low	3 770.00	17.96	25.50	43.46	22.16	
	16QAM	Low	3 770.00	17.69	25.50	43.19	20.87	
	64QAM	Low	3 770.00	18.01	25.50	43.51	22.45	
	256QAM	Low	3 770.00	18.10	25.50	43.60	22.90	
2	QPSK	Low	3 770.00	17.20	25.50	42.70	18.61	
	16QAM	Low	3 770.00	17.25	25.50	42.75	18.84	
	64QAM	Low	3 770.00	17.39	25.50	42.89	19.47	
	256QAM	Low	3 770.00	17.38	25.50	42.88	19.39	
3	QPSK	Low	3 770.00	17.74	25.50	43.24	21.08	
	16QAM	Low	3 770.00	17.56	25.50	43.06	20.21	
	64QAM	Low	3 770.00	17.75	25.50	43.25	21.14	
	256QAM	Low	3 770.00	17.85	25.50	43.35	21.61	
4	QPSK	Low	3 770.00	17.34	25.50	42.84	19.25	
	16QAM	Low	3 770.00	17.09	25.50	42.59	18.16	
	64QAM	Low	3 770.00	17.41	25.50	42.91	19.56	
	256QAM	Low	3 770.00	17.32	25.50	42.82	19.13	
5	QPSK	Low	3 770.00	17.52	25.50	43.02	20.04	
	16QAM	Low	3 770.00	17.30	25.50	42.80	19.04	
	64QAM	Low	3 770.00	17.44	25.50	42.94	19.67	
	256QAM	Low	3 770.00	17.58	25.50	43.08	20.31	
6	QPSK	Low	3 770.00	17.39	25.50	42.89	19.46	
	16QAM	Low	3 770.00	17.11	25.50	42.61	18.23	
	64QAM	Low	3 770.00	17.49	25.50	42.99	19.93	
	256QAM	Low	3 770.00	17.52	25.50	43.02	20.04	
7	QPSK	Low	3 770.00	17.44	25.50	42.94	19.67	
	16QAM	Low	3 770.00	17.31	25.50	42.81	19.11	
	64QAM	Low	3 770.00	17.56	25.50	43.06	20.21	
	256QAM	Low	3 770.00	17.58	25.50	43.08	20.32	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
8	QPSK	Low	3 770.00	17.40	25.50	42.90	19.52	1640 (3280)
	16QAM	Low	3 770.00	17.19	25.50	42.69	18.59	
	64QAM	Low	3 770.00	17.46	25.50	42.96	19.77	
	256QAM	Low	3 770.00	17.44	25.50	42.94	19.67	
9	QPSK	Low	3 770.00	16.93	25.50	42.43	17.49	
	16QAM	Low	3 770.00	16.68	25.50	42.18	16.50	
	64QAM	Low	3 770.00	16.94	25.50	42.44	17.53	
	256QAM	Low	3 770.00	17.05	25.50	42.55	17.98	
10	QPSK	Low	3 770.00	17.87	25.50	43.37	21.71	
	16QAM	Low	3 770.00	17.64	25.50	43.14	20.62	
	64QAM	Low	3 770.00	17.74	25.50	43.24	21.09	
	256QAM	Low	3 770.00	17.94	25.50	43.44	22.09	
11	QPSK	Low	3 770.00	17.77	25.50	43.27	21.24	
	16QAM	Low	3 770.00	17.91	25.50	43.41	21.93	
	64QAM	Low	3 770.00	18.10	25.50	43.60	22.89	
	256QAM	Low	3 770.00	18.01	25.50	43.51	22.43	
12	QPSK	Low	3 770.00	17.06	25.50	42.56	18.04	
	16QAM	Low	3 770.00	17.74	25.50	43.24	21.07	
	64QAM	Low	3 770.00	18.02	25.50	43.52	22.51	
	256QAM	Low	3 770.00	18.03	25.50	43.53	22.53	
13	QPSK	Low	3 770.00	16.62	25.50	42.12	16.29	
	16QAM	Low	3 770.00	17.37	25.50	42.87	19.37	
	64QAM	Low	3 770.00	17.48	25.50	42.98	19.88	
	256QAM	Low	3 770.00	17.60	25.50	43.10	20.44	
14	QPSK	Low	3 770.00	17.26	25.50	42.76	18.89	
	16QAM	Low	3 770.00	17.96	25.50	43.46	22.18	
	64QAM	Low	3 770.00	18.05	25.50	43.55	22.62	
	256QAM	Low	3 770.00	18.12	25.50	43.62	23.04	
15	QPSK	Low	3 770.00	17.13	25.50	42.63	18.30	
	16QAM	Low	3 770.00	17.86	25.50	43.36	21.67	
	64QAM	Low	3 770.00	17.89	25.50	43.39	21.82	
	256QAM	Low	3 770.00	17.82	25.50	43.32	21.49	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
16	QPSK	Low	3 770.00	17.43	25.50	42.93	19.64	1640 (3280)
	16QAM	Low	3 770.00	17.72	25.50	43.22	20.99	
	64QAM	Low	3 770.00	17.82	25.50	43.32	21.48	
	256QAM	Low	3 770.00	17.62	25.50	43.12	20.53	
17	QPSK	Low	3 770.00	17.10	25.50	42.60	18.18	
	16QAM	Low	3 770.00	17.22	25.50	42.72	18.69	
	64QAM	Low	3 770.00	17.26	25.50	42.76	18.87	
	256QAM	Low	3 770.00	17.33	25.50	42.83	19.18	
18	QPSK	Low	3 770.00	17.80	25.50	43.30	21.36	
	16QAM	Low	3 770.00	17.88	25.50	43.38	21.80	
	64QAM	Low	3 770.00	17.92	25.50	43.42	21.97	
	256QAM	Low	3 770.00	17.96	25.50	43.46	22.17	
19	QPSK	Low	3 770.00	18.09	25.50	43.59	22.86	
	16QAM	Low	3 770.00	18.26	25.50	43.76	23.79	
	64QAM	Low	3 770.00	18.20	25.50	43.70	23.45	
	256QAM	Low	3 770.00	18.16	25.50	43.66	23.22	
20	QPSK	Low	3 770.00	17.66	25.50	43.16	20.68	
	16QAM	Low	3 770.00	17.85	25.50	43.35	21.65	
	64QAM	Low	3 770.00	17.89	25.50	43.39	21.83	
	256QAM	Low	3 770.00	17.90	25.50	43.40	21.88	
21	QPSK	Low	3 770.00	17.69	25.50	43.19	20.83	
	16QAM	Low	3 770.00	17.85	25.50	43.35	21.62	
	64QAM	Low	3 770.00	17.93	25.50	43.43	22.04	
	256QAM	Low	3 770.00	17.84	25.50	43.34	21.59	
22	QPSK	Low	3 770.00	17.00	25.50	42.50	17.79	
	16QAM	Low	3 770.00	17.16	25.50	42.66	18.46	
	64QAM	Low	3 770.00	17.23	25.50	42.73	18.75	
	256QAM	Low	3 770.00	17.20	25.50	42.70	18.62	
23	QPSK	Low	3 770.00	17.40	25.50	42.90	19.51	
	16QAM	Low	3 770.00	17.56	25.50	43.06	20.25	
	64QAM	Low	3 770.00	17.63	25.50	43.13	20.54	
	256QAM	Low	3 770.00	17.55	25.50	43.05	20.20	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
24	QPSK	Low	3 770.00	17.52	25.50	43.02	20.05	1640 (3280)
	16QAM	Low	3 770.00	17.71	25.50	43.21	20.93	
	64QAM	Low	3 770.00	17.71	25.50	43.21	20.92	
	256QAM	Low	3 770.00	17.88	25.50	43.38	21.77	
25	QPSK	Low	3 770.00	17.85	25.50	43.35	21.65	
	16QAM	Low	3 770.00	18.10	25.50	43.60	22.89	
	64QAM	Low	3 770.00	17.99	25.50	43.49	22.34	
	256QAM	Low	3 770.00	17.91	25.50	43.41	21.95	
26	QPSK	Low	3 770.00	17.06	25.50	42.56	18.05	
	16QAM	Low	3 770.00	17.18	25.50	42.68	18.55	
	64QAM	Low	3 770.00	17.14	25.50	42.64	18.37	
	256QAM	Low	3 770.00	17.58	25.50	43.08	20.31	
27	QPSK	Low	3 770.00	17.07	25.50	42.57	18.08	
	16QAM	Low	3 770.00	17.16	25.50	42.66	18.44	
	64QAM	Low	3 770.00	17.21	25.50	42.71	18.66	
	256QAM	Low	3 770.00	17.56	25.50	43.06	20.24	
28	QPSK	Low	3 770.00	17.59	25.50	43.09	20.38	
	16QAM	Low	3 770.00	17.64	25.50	43.14	20.59	
	64QAM	Low	3 770.00	17.63	25.50	43.13	20.55	
	256QAM	Low	3 770.00	17.64	25.50	43.14	20.63	
29	QPSK	Low	3 770.00	17.06	25.50	42.56	18.05	
	16QAM	Low	3 770.00	17.18	25.50	42.68	18.53	
	64QAM	Low	3 770.00	17.22	25.50	42.72	18.72	
	256QAM	Low	3 770.00	17.26	25.50	42.76	18.87	
30	QPSK	Low	3 770.00	16.84	25.50	42.34	17.14	
	16QAM	Low	3 770.00	17.08	25.50	42.58	18.13	
	64QAM	Low	3 770.00	17.08	25.50	42.58	18.10	
	256QAM	Low	3 770.00	17.12	25.50	42.62	18.28	
31	QPSK	Low	3 770.00	17.49	25.50	42.99	19.93	
	16QAM	Low	3 770.00	17.58	25.50	43.08	20.31	
	64QAM	Low	3 770.00	17.64	25.50	43.14	20.60	
	256QAM	Low	3 770.00	17.93	25.50	43.43	22.05	



Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
32	QPSK	Low	3 770.00	14.64	25.50	40.14	10.32	1640 (3280)
	16QAM	Low	3 770.00	14.72	25.50	40.22	10.51	
	64QAM	Low	3 770.00	14.94	25.50	40.44	11.06	
	256QAM	Low	3 770.00	14.87	25.50	40.37	10.89	
33	QPSK	Low	3 770.00	16.01	25.50	41.51	14.15	
	16QAM	Low	3 770.00	15.52	25.50	41.02	12.64	
	64QAM	Low	3 770.00	15.99	25.50	41.49	14.10	
	256QAM	Low	3 770.00	15.48	25.50	40.98	12.55	
34	QPSK	Low	3 770.00	14.89	25.50	40.39	10.94	
	16QAM	Low	3 770.00	14.84	25.50	40.34	10.82	
	64QAM	Low	3 770.00	15.18	25.50	40.68	11.71	
	256QAM	Low	3 770.00	14.70	25.50	40.20	10.46	
35	QPSK	Low	3 770.00	15.34	25.50	40.84	12.14	
	16QAM	Low	3 770.00	15.47	25.50	40.97	12.52	
	64QAM	Low	3 770.00	15.42	25.50	40.92	12.37	
	256QAM	Low	3 770.00	15.37	25.50	40.87	12.22	
36	QPSK	Low	3 770.00	14.67	25.50	40.17	10.41	
	16QAM	Low	3 770.00	14.84	25.50	40.34	10.82	
	64QAM	Low	3 770.00	15.01	25.50	40.51	11.24	
	256QAM	Low	3 770.00	14.78	25.50	40.28	10.65	
37	QPSK	Low	3 770.00	15.05	25.50	40.55	11.35	
	16QAM	Low	3 770.00	14.97	25.50	40.47	11.15	
	64QAM	Low	3 770.00	15.33	25.50	40.83	12.10	
	256QAM	Low	3 770.00	15.15	25.50	40.65	11.60	
38	QPSK	Low	3 770.00	14.82	25.50	40.32	10.75	
	16QAM	Low	3 770.00	14.85	25.50	40.35	10.83	
	64QAM	Low	3 770.00	14.91	25.50	40.41	10.98	
	256QAM	Low	3 770.00	14.96	25.50	40.46	11.12	
39	QPSK	Low	3 770.00	14.97	25.50	40.47	11.13	
	16QAM	Low	3 770.00	15.26	25.50	40.76	11.92	
	64QAM	Low	3 770.00	15.14	25.50	40.64	11.60	
	256QAM	Low	3 770.00	15.14	25.50	40.64	11.60	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
40	QPSK	Low	3 770.00	14.92	25.50	40.42	11.02	1640 (3280)
	16QAM	Low	3 770.00	14.97	25.50	40.47	11.14	
	64QAM	Low	3 770.00	14.94	25.50	40.44	11.07	
	256QAM	Low	3 770.00	15.02	25.50	40.52	11.28	
41	QPSK	Low	3 770.00	14.31	25.50	39.81	9.57	
	16QAM	Low	3 770.00	14.41	25.50	39.91	9.81	
	64QAM	Low	3 770.00	14.27	25.50	39.77	9.49	
	256QAM	Low	3 770.00	14.47	25.50	39.97	9.94	
42	QPSK	Low	3 770.00	15.42	25.50	40.92	12.35	
	16QAM	Low	3 770.00	15.37	25.50	40.87	12.23	
	64QAM	Low	3 770.00	15.36	25.50	40.86	12.19	
	256QAM	Low	3 770.00	15.53	25.50	41.03	12.68	
43	QPSK	Low	3 770.00	15.50	25.50	41.00	12.59	
	16QAM	Low	3 770.00	15.64	25.50	41.14	12.99	
	64QAM	Low	3 770.00	15.93	25.50	41.43	13.91	
	256QAM	Low	3 770.00	15.53	25.50	41.03	12.67	
44	QPSK	Low	3 770.00	15.59	25.50	41.09	12.86	
	16QAM	Low	3 770.00	15.46	25.50	40.96	12.47	
	64QAM	Low	3 770.00	15.49	25.50	40.99	12.55	
	256QAM	Low	3 770.00	15.43	25.50	40.93	12.38	
45	QPSK	Low	3 770.00	14.78	25.50	40.28	10.67	
	16QAM	Low	3 770.00	15.05	25.50	40.55	11.36	
	64QAM	Low	3 770.00	15.06	25.50	40.56	11.37	
	256QAM	Low	3 770.00	15.01	25.50	40.51	11.24	
46	QPSK	Low	3 770.00	15.20	25.50	40.70	11.74	
	16QAM	Low	3 770.00	15.47	25.50	40.97	12.49	
	64QAM	Low	3 770.00	15.49	25.50	40.99	12.55	
	256QAM	Low	3 770.00	15.36	25.50	40.86	12.18	
47	QPSK	Low	3 770.00	14.88	25.50	40.38	10.91	
	16QAM	Low	3 770.00	15.00	25.50	40.50	11.23	
	64QAM	Low	3 770.00	15.19	25.50	40.69	11.72	
	256QAM	Low	3 770.00	15.12	25.50	40.62	11.55	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
48	QPSK	Low	3 770.00	14.88	25.50	40.38	10.90	1640 (3280)
	16QAM	Low	3 770.00	15.01	25.50	40.51	11.24	
	64QAM	Low	3 770.00	15.16	25.50	40.66	11.65	
	256QAM	Low	3 770.00	15.07	25.50	40.57	11.41	
49	QPSK	Low	3 770.00	14.28	25.50	39.78	9.50	
	16QAM	Low	3 770.00	14.32	25.50	39.82	9.59	
	64QAM	Low	3 770.00	14.38	25.50	39.88	9.73	
	256QAM	Low	3 770.00	14.44	25.50	39.94	9.87	
50	QPSK	Low	3 770.00	15.29	25.50	40.79	11.98	
	16QAM	Low	3 770.00	15.09	25.50	40.59	11.46	
	64QAM	Low	3 770.00	15.19	25.50	40.69	11.72	
	256QAM	Low	3 770.00	15.12	25.50	40.62	11.53	
51	QPSK	Low	3 770.00	15.49	25.50	40.99	12.56	
	16QAM	Low	3 770.00	15.50	25.50	41.00	12.58	
	64QAM	Low	3 770.00	15.50	25.50	41.00	12.59	
	256QAM	Low	3 770.00	15.67	25.50	41.17	13.09	
52	QPSK	Low	3 770.00	15.16	25.50	40.66	11.65	
	16QAM	Low	3 770.00	15.13	25.50	40.63	11.57	
	64QAM	Low	3 770.00	15.21	25.50	40.71	11.76	
	256QAM	Low	3 770.00	15.12	25.50	40.62	11.53	
53	QPSK	Low	3 770.00	14.93	25.50	40.43	11.03	
	16QAM	Low	3 770.00	15.24	25.50	40.74	11.85	
	64QAM	Low	3 770.00	15.21	25.50	40.71	11.77	
	256QAM	Low	3 770.00	15.20	25.50	40.70	11.74	
54	QPSK	Low	3 770.00	14.31	25.50	39.81	9.57	
	16QAM	Low	3 770.00	14.37	25.50	39.87	9.71	
	64QAM	Low	3 770.00	14.63	25.50	40.13	10.31	
	256QAM	Low	3 770.00	14.64	25.50	40.14	10.33	
55	QPSK	Low	3 770.00	14.25	25.50	39.75	9.45	
	16QAM	Low	3 770.00	14.44	25.50	39.94	9.86	
	64QAM	Low	3 770.00	14.37	25.50	39.87	9.71	
	256QAM	Low	3 770.00	14.44	25.50	39.94	9.86	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
56	QPSK	Low	3 770.00	14.83	25.50	40.33	10.78	1640 (3280)
	16QAM	Low	3 770.00	14.98	25.50	40.48	11.16	
	64QAM	Low	3 770.00	15.23	25.50	40.73	11.84	
	256QAM	Low	3 770.00	14.96	25.50	40.46	11.13	
57	QPSK	Low	3 770.00	15.38	25.50	40.88	12.25	
	16QAM	Low	3 770.00	15.51	25.50	41.01	12.63	
	64QAM	Low	3 770.00	15.74	25.50	41.24	13.31	
	256QAM	Low	3 770.00	15.78	25.50	41.28	13.42	
58	QPSK	Low	3 770.00	14.48	25.50	39.98	9.95	
	16QAM	Low	3 770.00	14.56	25.50	40.06	10.14	
	64QAM	Low	3 770.00	14.53	25.50	40.03	10.07	
	256QAM	Low	3 770.00	14.48	25.50	39.98	9.94	
59	QPSK	Low	3 770.00	14.42	25.50	39.92	9.82	
	16QAM	Low	3 770.00	14.47	25.50	39.97	9.93	
	64QAM	Low	3 770.00	14.65	25.50	40.15	10.35	
	256QAM	Low	3 770.00	14.53	25.50	40.03	10.07	
60	QPSK	Low	3 770.00	15.03	25.50	40.53	11.29	
	16QAM	Low	3 770.00	15.05	25.50	40.55	11.36	
	64QAM	Low	3 770.00	15.10	25.50	40.60	11.49	
	256QAM	Low	3 770.00	15.22	25.50	40.72	11.79	
61	QPSK	Low	3 770.00	14.58	25.50	40.08	10.18	
	16QAM	Low	3 770.00	14.66	25.50	40.16	10.37	
	64QAM	Low	3 770.00	14.62	25.50	40.12	10.27	
	256QAM	Low	3 770.00	14.79	25.50	40.29	10.68	
62	QPSK	Low	3 770.00	14.26	25.50	39.76	9.45	
	16QAM	Low	3 770.00	14.23	25.50	39.73	9.40	
	64QAM	Low	3 770.00	14.35	25.50	39.85	9.67	
	256QAM	Low	3 770.00	14.39	25.50	39.89	9.75	
63	QPSK	Low	3 770.00	14.69	25.50	40.19	10.44	
	16QAM	Low	3 770.00	14.62	25.50	40.12	10.29	
	64QAM	Low	3 770.00	14.76	25.50	40.26	10.62	
	256QAM	Low	3 770.00	14.88	25.50	40.38	10.92	

Sum Data of Port 0 ~ Port 63

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
3 770.00	978.17	997.44	1 022.85	1 026.00	1640 (3280)

**(64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 100 MHz 1 Carrier [2 Carrier] (Asymmetric)**

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
0	QPSK	Low	3 800.00	15.81	25.50	41.31	13.51	1640 (3280)
	16QAM	Low	3 800.00	16.11	25.50	41.61	14.50	
	64QAM	Low	3 800.00	15.81	25.50	41.31	13.51	
	256QAM	Low	3 800.00	15.90	25.50	41.40	13.81	
1	QPSK	Low	3 800.00	16.51	25.50	42.01	15.88	
	16QAM	Low	3 800.00	16.73	25.50	42.23	16.72	
	64QAM	Low	3 800.00	16.67	25.50	42.17	16.49	
	256QAM	Low	3 800.00	16.62	25.50	42.12	16.31	
2	QPSK	Low	3 800.00	15.69	25.50	41.19	13.15	
	16QAM	Low	3 800.00	15.81	25.50	41.31	13.51	
	64QAM	Low	3 800.00	15.78	25.50	41.28	13.42	
	256QAM	Low	3 800.00	15.79	25.50	41.29	13.46	
3	QPSK	Low	3 800.00	16.14	25.50	41.64	14.59	
	16QAM	Low	3 800.00	16.51	25.50	42.01	15.90	
	64QAM	Low	3 800.00	16.39	25.50	41.89	15.45	
	256QAM	Low	3 800.00	16.59	25.50	42.09	16.20	
4	QPSK	Low	3 800.00	15.92	25.50	41.42	13.86	
	16QAM	Low	3 800.00	16.38	25.50	41.88	15.40	
	64QAM	Low	3 800.00	16.13	25.50	41.63	14.54	
	256QAM	Low	3 800.00	16.07	25.50	41.57	14.37	
5	QPSK	Low	3 800.00	16.08	25.50	41.58	14.38	
	16QAM	Low	3 800.00	16.27	25.50	41.77	15.02	
	64QAM	Low	3 800.00	16.15	25.50	41.65	14.63	
	256QAM	Low	3 800.00	16.10	25.50	41.60	14.45	
6	QPSK	Low	3 800.00	15.79	25.50	41.29	13.47	
	16QAM	Low	3 800.00	16.12	25.50	41.62	14.52	
	64QAM	Low	3 800.00	15.88	25.50	41.38	13.73	
	256QAM	Low	3 800.00	16.01	25.50	41.51	14.16	
7	QPSK	Low	3 800.00	16.16	25.50	41.66	14.65	
	16QAM	Low	3 800.00	16.50	25.50	42.00	15.84	
	64QAM	Low	3 800.00	16.19	25.50	41.69	14.77	
	256QAM	Low	3 800.00	16.39	25.50	41.89	15.45	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
8	QPSK	Low	3 800.00	15.71	25.50	41.21	13.22	1640 (3280)
	16QAM	Low	3 800.00	15.94	25.50	41.44	13.94	
	64QAM	Low	3 800.00	15.86	25.50	41.36	13.69	
	256QAM	Low	3 800.00	15.90	25.50	41.40	13.81	
9	QPSK	Low	3 800.00	15.17	25.50	40.67	11.68	
	16QAM	Low	3 800.00	15.72	25.50	41.22	13.23	
	64QAM	Low	3 800.00	15.33	25.50	40.83	12.12	
	256QAM	Low	3 800.00	15.49	25.50	40.99	12.56	
10	QPSK	Low	3 800.00	16.19	25.50	41.69	14.77	
	16QAM	Low	3 800.00	16.66	25.50	42.16	16.44	
	64QAM	Low	3 800.00	16.31	25.50	41.81	15.16	
	256QAM	Low	3 800.00	16.42	25.50	41.92	15.55	
11	QPSK	Low	3 800.00	16.45	25.50	41.95	15.65	
	16QAM	Low	3 800.00	16.91	25.50	42.41	17.44	
	64QAM	Low	3 800.00	16.65	25.50	42.15	16.40	
	256QAM	Low	3 800.00	16.63	25.50	42.13	16.35	
12	QPSK	Low	3 800.00	16.27	25.50	41.77	15.02	
	16QAM	Low	3 800.00	16.64	25.50	42.14	16.38	
	64QAM	Low	3 800.00	16.24	25.50	41.74	14.94	
	256QAM	Low	3 800.00	16.31	25.50	41.81	15.17	
13	QPSK	Low	3 800.00	15.89	25.50	41.39	13.76	
	16QAM	Low	3 800.00	16.39	25.50	41.89	15.45	
	64QAM	Low	3 800.00	15.93	25.50	41.43	13.90	
	256QAM	Low	3 800.00	16.11	25.50	41.61	14.50	
14	QPSK	Low	3 800.00	16.17	25.50	41.67	14.68	
	16QAM	Low	3 800.00	16.40	25.50	41.90	15.48	
	64QAM	Low	3 800.00	16.32	25.50	41.82	15.21	
	256QAM	Low	3 800.00	16.30	25.50	41.80	15.14	
15	QPSK	Low	3 800.00	16.11	25.50	41.61	14.49	
	16QAM	Low	3 800.00	16.52	25.50	42.02	15.91	
	64QAM	Low	3 800.00	16.31	25.50	41.81	15.17	
	256QAM	Low	3 800.00	16.24	25.50	41.74	14.91	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
16	QPSK	Low	3 800.00	16.31	25.50	41.81	15.17	1640 (3280)
	16QAM	Low	3 800.00	16.70	25.50	42.20	16.61	
	64QAM	Low	3 800.00	16.37	25.50	41.87	15.38	
	256QAM	Low	3 800.00	16.36	25.50	41.86	15.36	
17	QPSK	Low	3 800.00	15.60	25.50	41.10	12.89	
	16QAM	Low	3 800.00	15.84	25.50	41.34	13.61	
	64QAM	Low	3 800.00	15.68	25.50	41.18	13.12	
	256QAM	Low	3 800.00	15.87	25.50	41.37	13.72	
18	QPSK	Low	3 800.00	16.09	25.50	41.59	14.42	
	16QAM	Low	3 800.00	16.32	25.50	41.82	15.21	
	64QAM	Low	3 800.00	16.29	25.50	41.79	15.10	
	256QAM	Low	3 800.00	16.29	25.50	41.79	15.11	
19	QPSK	Low	3 800.00	16.60	25.50	42.10	16.20	
	16QAM	Low	3 800.00	16.80	25.50	42.30	16.99	
	64QAM	Low	3 800.00	16.78	25.50	42.28	16.92	
	256QAM	Low	3 800.00	16.89	25.50	42.39	17.34	
20	QPSK	Low	3 800.00	16.09	25.50	41.59	14.43	
	16QAM	Low	3 800.00	16.19	25.50	41.69	14.76	
	64QAM	Low	3 800.00	16.25	25.50	41.75	14.98	
	256QAM	Low	3 800.00	16.51	25.50	42.01	15.90	
21	QPSK	Low	3 800.00	16.48	25.50	41.98	15.77	
	16QAM	Low	3 800.00	16.78	25.50	42.28	16.91	
	64QAM	Low	3 800.00	16.49	25.50	41.99	15.80	
	256QAM	Low	3 800.00	16.56	25.50	42.06	16.09	
22	QPSK	Low	3 800.00	15.47	25.50	40.97	12.49	
	16QAM	Low	3 800.00	15.69	25.50	41.19	13.14	
	64QAM	Low	3 800.00	15.60	25.50	41.10	12.88	
	256QAM	Low	3 800.00	15.74	25.50	41.24	13.29	
23	QPSK	Low	3 800.00	15.71	25.50	41.21	13.21	
	16QAM	Low	3 800.00	16.17	25.50	41.67	14.69	
	64QAM	Low	3 800.00	16.02	25.50	41.52	14.19	
	256QAM	Low	3 800.00	16.15	25.50	41.65	14.62	



Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
24	QPSK	Low	3 800.00	15.96	25.50	41.46	13.99	1640 (3280)
	16QAM	Low	3 800.00	15.98	25.50	41.48	14.07	
	64QAM	Low	3 800.00	15.99	25.50	41.49	14.08	
	256QAM	Low	3 800.00	16.12	25.50	41.62	14.51	
25	QPSK	Low	3 800.00	16.70	25.50	42.20	16.61	
	16QAM	Low	3 800.00	16.83	25.50	42.33	17.12	
	64QAM	Low	3 800.00	16.80	25.50	42.30	16.97	
	256QAM	Low	3 800.00	16.76	25.50	42.26	16.84	
26	QPSK	Low	3 800.00	15.51	25.50	41.01	12.62	
	16QAM	Low	3 800.00	15.82	25.50	41.32	13.54	
	64QAM	Low	3 800.00	15.59	25.50	41.09	12.85	
	256QAM	Low	3 800.00	15.78	25.50	41.28	13.43	
27	QPSK	Low	3 800.00	15.41	25.50	40.91	12.34	
	16QAM	Low	3 800.00	15.58	25.50	41.08	12.83	
	64QAM	Low	3 800.00	15.54	25.50	41.04	12.70	
	256QAM	Low	3 800.00	15.82	25.50	41.32	13.55	
28	QPSK	Low	3 800.00	16.24	25.50	41.74	14.93	
	16QAM	Low	3 800.00	16.38	25.50	41.88	15.42	
	64QAM	Low	3 800.00	16.42	25.50	41.92	15.56	
	256QAM	Low	3 800.00	16.25	25.50	41.75	14.96	
29	QPSK	Low	3 800.00	15.71	25.50	41.21	13.20	
	16QAM	Low	3 800.00	16.17	25.50	41.67	14.70	
	64QAM	Low	3 800.00	15.92	25.50	41.42	13.88	
	256QAM	Low	3 800.00	16.06	25.50	41.56	14.33	
30	QPSK	Low	3 800.00	15.40	25.50	40.90	12.31	
	16QAM	Low	3 800.00	15.77	25.50	41.27	13.39	
	64QAM	Low	3 800.00	15.57	25.50	41.07	12.80	
	256QAM	Low	3 800.00	15.66	25.50	41.16	13.05	
31	QPSK	Low	3 800.00	15.67	25.50	41.17	13.09	
	16QAM	Low	3 800.00	15.86	25.50	41.36	13.69	
	64QAM	Low	3 800.00	15.88	25.50	41.38	13.73	
	256QAM	Low	3 800.00	15.85	25.50	41.35	13.63	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
32	QPSK	Low	3 800.00	15.57	25.50	41.07	12.81	1640 (3280)
	16QAM	Low	3 800.00	16.01	25.50	41.51	14.17	
	64QAM	Low	3 800.00	16.40	25.50	41.90	15.49	
	256QAM	Low	3 800.00	15.58	25.50	41.08	12.83	
33	QPSK	Low	3 800.00	16.68	25.50	42.18	16.52	
	16QAM	Low	3 800.00	16.68	25.50	42.18	16.50	
	64QAM	Low	3 800.00	16.76	25.50	42.26	16.83	
	256QAM	Low	3 800.00	16.27	25.50	41.77	15.02	
34	QPSK	Low	3 800.00	15.67	25.50	41.17	13.08	
	16QAM	Low	3 800.00	15.68	25.50	41.18	13.12	
	64QAM	Low	3 800.00	16.05	25.50	41.55	14.29	
	256QAM	Low	3 800.00	15.63	25.50	41.13	12.97	
35	QPSK	Low	3 800.00	16.21	25.50	41.71	14.81	
	16QAM	Low	3 800.00	16.48	25.50	41.98	15.77	
	64QAM	Low	3 800.00	16.51	25.50	42.01	15.88	
	256QAM	Low	3 800.00	16.22	25.50	41.72	14.87	
36	QPSK	Low	3 800.00	15.58	25.50	41.08	12.83	
	16QAM	Low	3 800.00	15.84	25.50	41.34	13.60	
	64QAM	Low	3 800.00	15.95	25.50	41.45	13.96	
	256QAM	Low	3 800.00	15.52	25.50	41.02	12.66	
37	QPSK	Low	3 800.00	16.00	25.50	41.50	14.12	
	16QAM	Low	3 800.00	16.28	25.50	41.78	15.05	
	64QAM	Low	3 800.00	16.32	25.50	41.82	15.19	
	256QAM	Low	3 800.00	16.19	25.50	41.69	14.75	
38	QPSK	Low	3 800.00	15.66	25.50	41.16	13.06	
	16QAM	Low	3 800.00	15.89	25.50	41.39	13.76	
	64QAM	Low	3 800.00	15.99	25.50	41.49	14.09	
	256QAM	Low	3 800.00	15.60	25.50	41.10	12.89	
39	QPSK	Low	3 800.00	16.01	25.50	41.51	14.16	
	16QAM	Low	3 800.00	16.40	25.50	41.90	15.49	
	64QAM	Low	3 800.00	16.28	25.50	41.78	15.07	
	256QAM	Low	3 800.00	15.93	25.50	41.43	13.89	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
40	QPSK	Low	3 800.00	15.84	25.50	41.34	13.61	1640 (3280)
	16QAM	Low	3 800.00	16.33	25.50	41.83	15.26	
	64QAM	Low	3 800.00	16.21	25.50	41.71	14.82	
	256QAM	Low	3 800.00	16.07	25.50	41.57	14.37	
41	QPSK	Low	3 800.00	15.18	25.50	40.68	11.70	
	16QAM	Low	3 800.00	15.78	25.50	41.28	13.44	
	64QAM	Low	3 800.00	15.71	25.50	41.21	13.20	
	256QAM	Low	3 800.00	15.37	25.50	40.87	12.23	
42	QPSK	Low	3 800.00	16.24	25.50	41.74	14.93	
	16QAM	Low	3 800.00	16.79	25.50	42.29	16.92	
	64QAM	Low	3 800.00	16.64	25.50	42.14	16.37	
	256QAM	Low	3 800.00	16.25	25.50	41.75	14.96	
43	QPSK	Low	3 800.00	16.62	25.50	42.12	16.28	
	16QAM	Low	3 800.00	17.09	25.50	42.59	18.14	
	64QAM	Low	3 800.00	16.44	25.50	41.94	15.62	
	256QAM	Low	3 800.00	16.44	25.50	41.94	15.65	
44	QPSK	Low	3 800.00	16.25	25.50	41.75	14.95	
	16QAM	Low	3 800.00	16.65	25.50	42.15	16.42	
	64QAM	Low	3 800.00	16.02	25.50	41.52	14.18	
	256QAM	Low	3 800.00	16.35	25.50	41.85	15.30	
45	QPSK	Low	3 800.00	15.85	25.50	41.35	13.64	
	16QAM	Low	3 800.00	16.22	25.50	41.72	14.85	
	64QAM	Low	3 800.00	15.65	25.50	41.15	13.05	
	256QAM	Low	3 800.00	15.84	25.50	41.34	13.62	
46	QPSK	Low	3 800.00	16.20	25.50	41.70	14.81	
	16QAM	Low	3 800.00	16.49	25.50	41.99	15.81	
	64QAM	Low	3 800.00	16.31	25.50	41.81	15.17	
	256QAM	Low	3 800.00	16.23	25.50	41.73	14.88	
47	QPSK	Low	3 800.00	15.90	25.50	41.40	13.80	
	16QAM	Low	3 800.00	16.45	25.50	41.95	15.68	
	64QAM	Low	3 800.00	15.83	25.50	41.33	13.59	
	256QAM	Low	3 800.00	15.93	25.50	41.43	13.91	

Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
48	QPSK	Low	3 800.00	15.93	25.50	41.43	13.91	1640 (3280)
	16QAM	Low	3 800.00	16.32	25.50	41.82	15.21	
	64QAM	Low	3 800.00	15.95	25.50	41.45	13.96	
	256QAM	Low	3 800.00	15.86	25.50	41.36	13.69	
49	QPSK	Low	3 800.00	15.29	25.50	40.79	12.00	
	16QAM	Low	3 800.00	15.63	25.50	41.13	12.98	
	64QAM	Low	3 800.00	15.35	25.50	40.85	12.17	
	256QAM	Low	3 800.00	15.14	25.50	40.64	11.58	
50	QPSK	Low	3 800.00	15.95	25.50	41.45	13.97	
	16QAM	Low	3 800.00	16.52	25.50	42.02	15.93	
	64QAM	Low	3 800.00	16.02	25.50	41.52	14.18	
	256QAM	Low	3 800.00	15.96	25.50	41.46	13.99	
51	QPSK	Low	3 800.00	16.36	25.50	41.86	15.36	
	16QAM	Low	3 800.00	17.02	25.50	42.52	17.86	
	64QAM	Low	3 800.00	16.58	25.50	42.08	16.13	
	256QAM	Low	3 800.00	16.41	25.50	41.91	15.54	
52	QPSK	Low	3 800.00	16.12	25.50	41.62	14.51	
	16QAM	Low	3 800.00	16.48	25.50	41.98	15.79	
	64QAM	Low	3 800.00	16.12	25.50	41.62	14.51	
	256QAM	Low	3 800.00	16.12	25.50	41.62	14.53	
53	QPSK	Low	3 800.00	16.15	25.50	41.65	14.63	
	16QAM	Low	3 800.00	16.63	25.50	42.13	16.34	
	64QAM	Low	3 800.00	16.08	25.50	41.58	14.40	
	256QAM	Low	3 800.00	16.19	25.50	41.69	14.76	
54	QPSK	Low	3 800.00	15.33	25.50	40.83	12.12	
	16QAM	Low	3 800.00	15.17	25.50	40.67	11.67	
	64QAM	Low	3 800.00	15.36	25.50	40.86	12.20	
	256QAM	Low	3 800.00	15.63	25.50	41.13	12.98	
55	QPSK	Low	3 800.00	15.14	25.50	40.64	11.58	
	16QAM	Low	3 800.00	15.61	25.50	41.11	12.92	
	64QAM	Low	3 800.00	15.24	25.50	40.74	11.86	
	256QAM	Low	3 800.00	15.50	25.50	41.00	12.58	

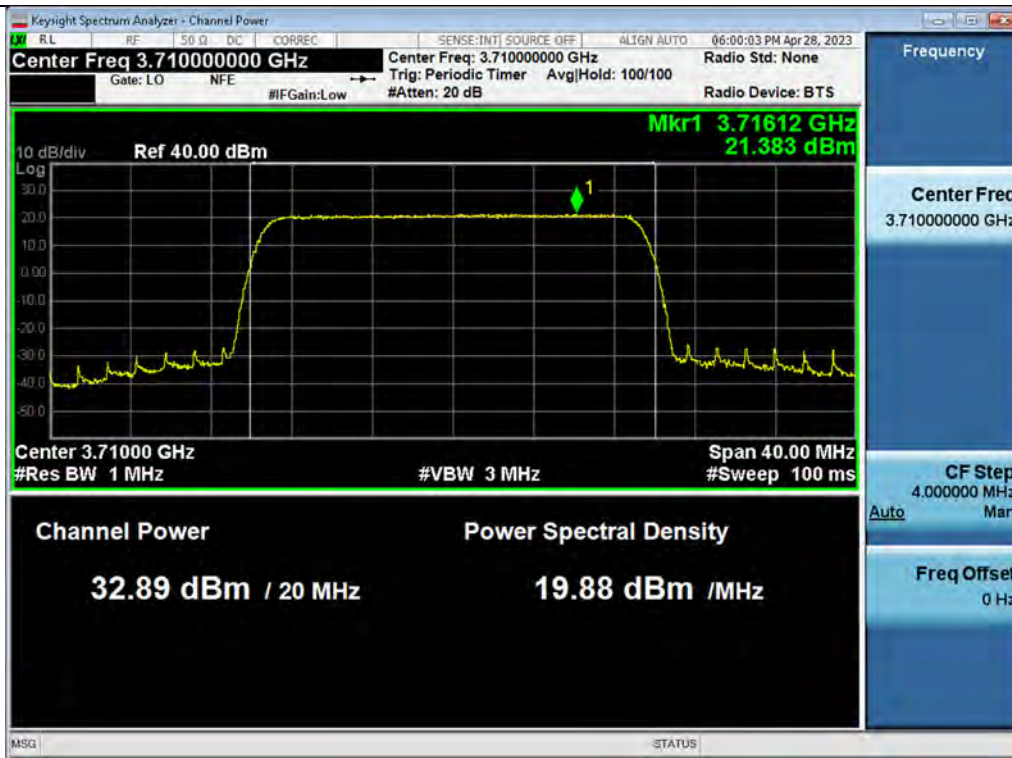
Ant.	Mod	Ch	Frequency (MHz)	Measured Value (dBm/MHz)	Ant. Gain (dBi)	E.I.R.P. (dBm/MHz)	Calculated (W/MHz)	Limit (W/MHz)
56	QPSK	Low	3 800.00	15.88	25.50	41.38	13.73	1640 (3280)
	16QAM	Low	3 800.00	15.64	25.50	41.14	12.99	
	64QAM	Low	3 800.00	15.81	25.50	41.31	13.52	
	256QAM	Low	3 800.00	15.99	25.50	41.49	14.09	
57	QPSK	Low	3 800.00	16.52	25.50	42.02	15.93	
	16QAM	Low	3 800.00	16.41	25.50	41.91	15.52	
	64QAM	Low	3 800.00	16.57	25.50	42.07	16.10	
	256QAM	Low	3 800.00	16.57	25.50	42.07	16.10	
58	QPSK	Low	3 800.00	15.39	25.50	40.89	12.28	
	16QAM	Low	3 800.00	15.04	25.50	40.54	11.32	
	64QAM	Low	3 800.00	15.35	25.50	40.85	12.15	
	256QAM	Low	3 800.00	15.48	25.50	40.98	12.52	
59	QPSK	Low	3 800.00	15.53	25.50	41.03	12.69	
	16QAM	Low	3 800.00	15.19	25.50	40.69	11.71	
	64QAM	Low	3 800.00	15.39	25.50	40.89	12.27	
	256QAM	Low	3 800.00	15.54	25.50	41.04	12.70	
60	QPSK	Low	3 800.00	16.21	25.50	41.71	14.83	
	16QAM	Low	3 800.00	15.94	25.50	41.44	13.94	
	64QAM	Low	3 800.00	16.06	25.50	41.56	14.34	
	256QAM	Low	3 800.00	16.45	25.50	41.95	15.68	
61	QPSK	Low	3 800.00	15.60	25.50	41.10	12.89	
	16QAM	Low	3 800.00	15.49	25.50	40.99	12.57	
	64QAM	Low	3 800.00	15.57	25.50	41.07	12.79	
	256QAM	Low	3 800.00	15.98	25.50	41.48	14.05	
62	QPSK	Low	3 800.00	15.29	25.50	40.79	11.99	
	16QAM	Low	3 800.00	14.90	25.50	40.40	10.95	
	64QAM	Low	3 800.00	15.15	25.50	40.65	11.61	
	256QAM	Low	3 800.00	15.43	25.50	40.93	12.40	
63	QPSK	Low	3 800.00	15.60	25.50	41.10	12.89	
	16QAM	Low	3 800.00	15.32	25.50	40.82	12.07	
	64QAM	Low	3 800.00	15.60	25.50	41.10	12.89	
	256QAM	Low	3 800.00	15.74	25.50	41.24	13.29	

## Sum Data of Port 0 ~ Port 63

Frequency (MHz)	PSD				Limit
	QPSK	16QAM	64QAM	256QAM	
	W/MHz				
3 800.00	890.83	946.11	915.95	917.22	1640 (3280)

## Plot Data of PSD

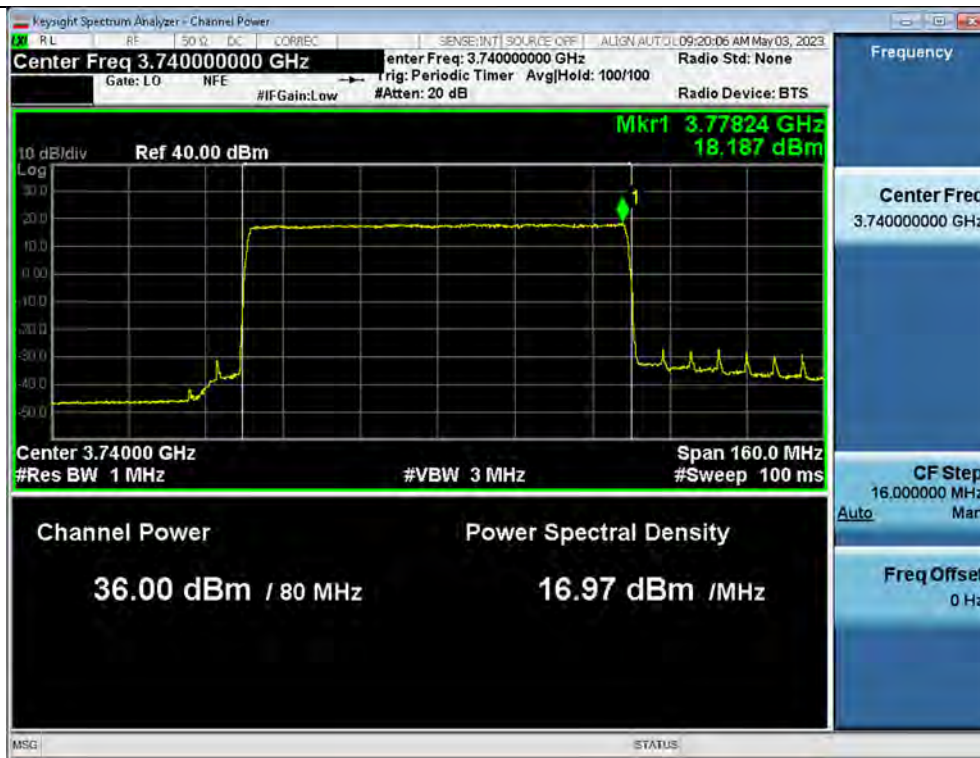
Antenna 1 / (64 Port) 5G NR n77 20 MHz [1 Carrier] / 16QAM / Low



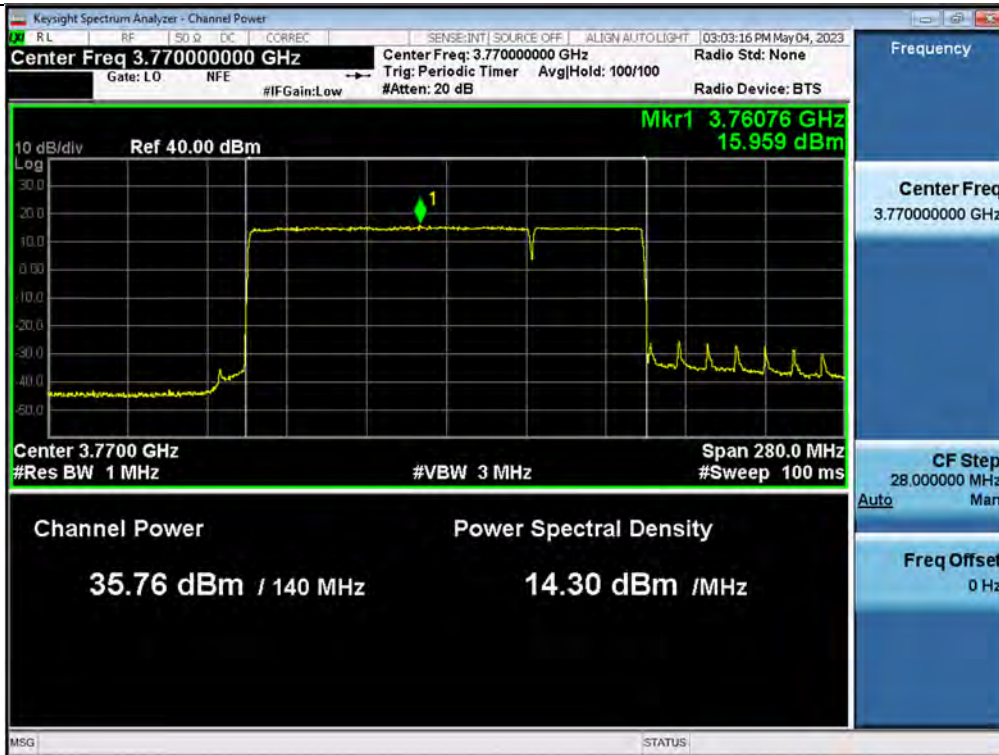
Antenna 19 / (64 Port) 5G NR n77 40 MHz [1 Carrier] / 256QAM / High



Antenna 19 / (64 Port) 5G NR n77 80 MHz [1 Carrier] / 256QAM / Low

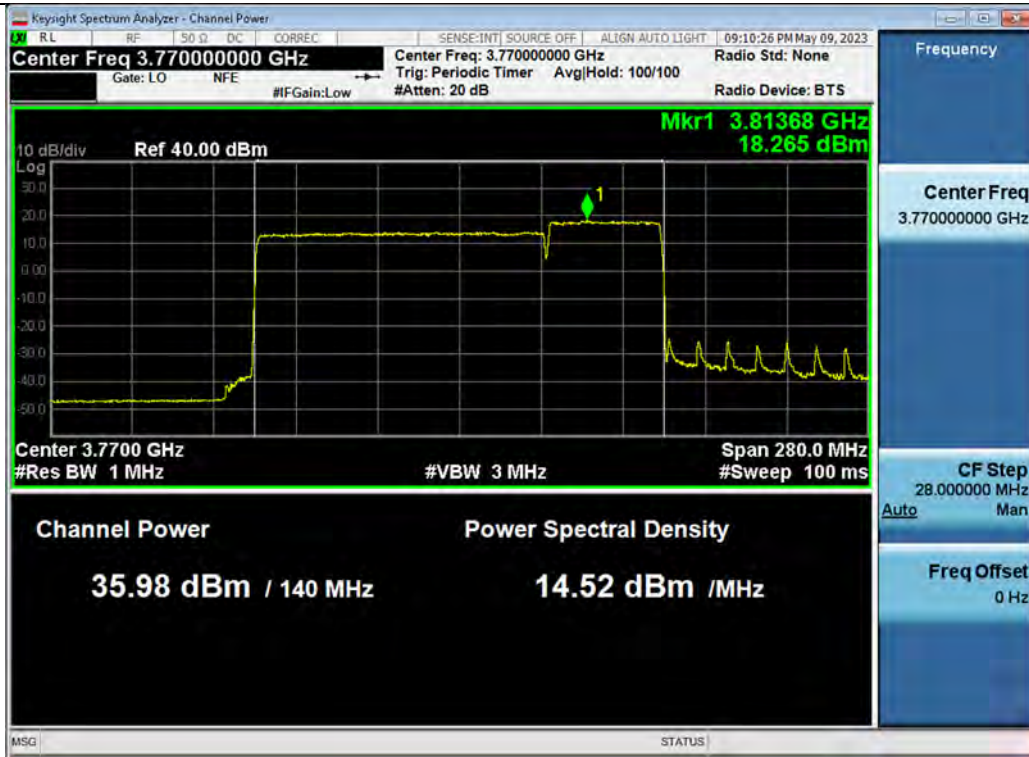


Antenna 11 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] / 64QAM / Low

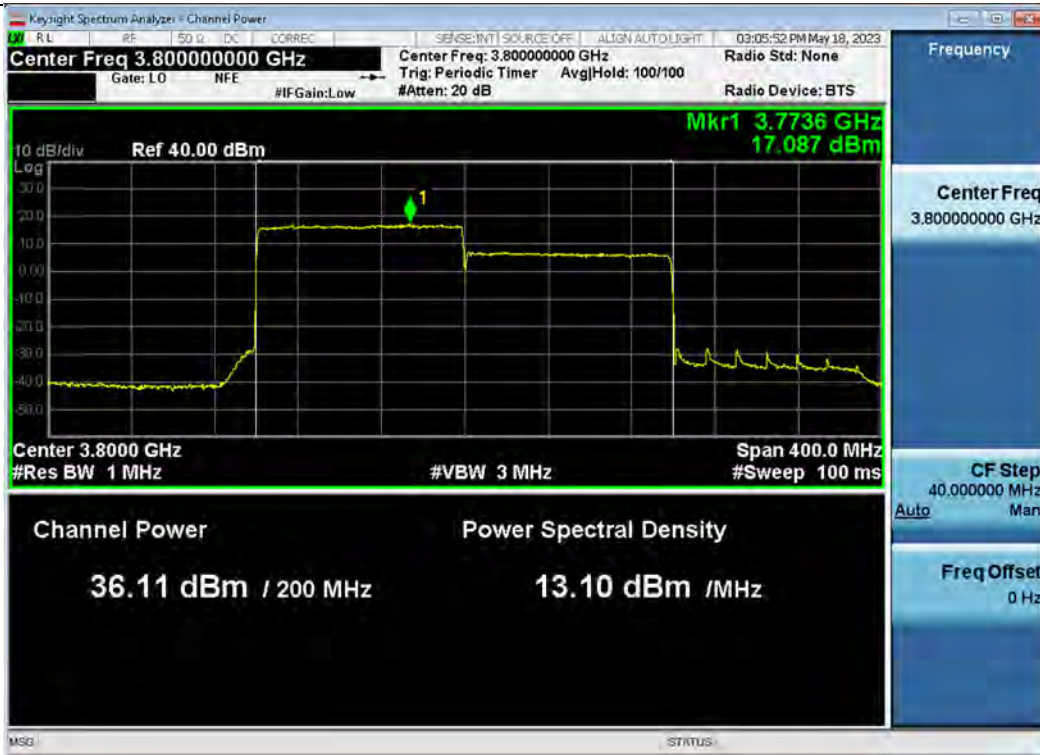




Antenna 19 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] (Asymmetric) / 16QAM / Low



Antenna 43 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 100 MHz 1 Carrier [2 Carrier] (Asymmetric) / 16QAM / Low



## 5.2. PAPR

### Test Requirements:

#### § 27.50 Power limits and duty cycle.

- (j) The following power requirements apply to stations transmitting in the 3700-3980 MHz band:
  - (4) Equipment employed must be authorized in accordance with the provisions of § 27.51. Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (j)(5) of this section. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

### Test Procedures:

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

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

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

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

## Tabular data of PAPR

## (64 Port) 5G NR n77 20 MHz [1 Carrier]

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	3 710.00	7.48
		Middle	3 840.00	7.46
		High	3 970.00	7.44
	16QAM	Low	3 710.00	7.42
		Middle	3 840.00	7.53
		High	3 970.00	7.36
	64QAM	Low	3 710.00	7.44
		Middle	3 840.00	7.49
		High	3 970.00	7.39
	256QAM	Low	3 710.00	7.44
		Middle	3 840.00	7.48
		High	3 970.00	7.41
1	QPSK	Low	3 710.00	7.47
		Middle	3 840.00	7.51
		High	3 970.00	7.43
	16QAM	Low	3 710.00	7.47
		Middle	3 840.00	7.51
		High	3 970.00	7.39
	64QAM	Low	3 710.00	7.47
		Middle	3 840.00	7.49
		High	3 970.00	7.45
	256QAM	Low	3 710.00	7.49
		Middle	3 840.00	7.50
		High	3 970.00	7.42

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
2	QPSK	Low	3 710.00	7.47
		Middle	3 840.00	7.49
		High	3 970.00	7.44
	16QAM	Low	3 710.00	7.47
		Middle	3 840.00	7.50
		High	3 970.00	7.47
	64QAM	Low	3 710.00	7.46
		Middle	3 840.00	7.47
		High	3 970.00	7.47
	256QAM	Low	3 710.00	7.49
		Middle	3 840.00	7.47
		High	3 970.00	7.44
3	QPSK	Low	3 710.00	7.49
		Middle	3 840.00	7.51
		High	3 970.00	7.45
	16QAM	Low	3 710.00	7.48
		Middle	3 840.00	7.54
		High	3 970.00	7.48
	64QAM	Low	3 710.00	7.48
		Middle	3 840.00	7.50
		High	3 970.00	7.44
	256QAM	Low	3 710.00	7.50
		Middle	3 840.00	7.49
		High	3 970.00	7.45
4	QPSK	Low	3 710.00	7.46
		Middle	3 840.00	7.50
		High	3 970.00	7.40
	16QAM	Low	3 710.00	7.47
		Middle	3 840.00	7.51
		High	3 970.00	7.47
	64QAM	Low	3 710.00	7.47
		Middle	3 840.00	7.48
		High	3 970.00	7.45
	256QAM	Low	3 710.00	7.47
		Middle	3 840.00	7.49
		High	3 970.00	7.44

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
5	QPSK	Low	3 710.00	7.48
		Middle	3 840.00	7.50
		High	3 970.00	7.45
	16QAM	Low	3 710.00	7.47
		Middle	3 840.00	7.52
		High	3 970.00	7.44
	64QAM	Low	3 710.00	7.47
		Middle	3 840.00	7.47
		High	3 970.00	7.47
256QAM	Low	3 710.00	7.50	
	Middle	3 840.00	7.48	
	High	3 970.00	7.47	
6	QPSK	Low	3 710.00	7.47
		Middle	3 840.00	7.47
		High	3 970.00	7.45
	16QAM	Low	3 710.00	7.45
		Middle	3 840.00	7.53
		High	3 970.00	7.45
	64QAM	Low	3 710.00	7.47
		Middle	3 840.00	7.51
		High	3 970.00	7.48
256QAM	Low	3 710.00	7.48	
	Middle	3 840.00	7.49	
	High	3 970.00	7.42	
7	QPSK	Low	3 710.00	7.49
		Middle	3 840.00	7.48
		High	3 970.00	7.44
	16QAM	Low	3 710.00	7.48
		Middle	3 840.00	7.53
		High	3 970.00	7.50
	64QAM	Low	3 710.00	7.46
		Middle	3 840.00	7.52
		High	3 970.00	7.47
256QAM	Low	3 710.00	7.49	
	Middle	3 840.00	7.48	
	High	3 970.00	7.44	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
8	QPSK	Low	3 710.00	7.49
		Middle	3 840.00	7.49
		High	3 970.00	7.48
	16QAM	Low	3 710.00	7.48
		Middle	3 840.00	7.51
		High	3 970.00	7.45
	64QAM	Low	3 710.00	7.46
		Middle	3 840.00	7.49
		High	3 970.00	7.45
256QAM	Low	3 710.00	7.52	
	Middle	3 840.00	7.49	
	High	3 970.00	7.49	
9	QPSK	Low	3 710.00	7.48
		Middle	3 840.00	7.48
		High	3 970.00	7.48
	16QAM	Low	3 710.00	7.48
		Middle	3 840.00	7.52
		High	3 970.00	7.51
	64QAM	Low	3 710.00	7.45
		Middle	3 840.00	7.51
		High	3 970.00	7.48
256QAM	Low	3 710.00	7.50	
	Middle	3 840.00	7.49	
	High	3 970.00	7.46	
10	QPSK	Low	3 710.00	7.47
		Middle	3 840.00	7.48
		High	3 970.00	7.48
	16QAM	Low	3 710.00	7.49
		Middle	3 840.00	7.57
		High	3 970.00	7.50
	64QAM	Low	3 710.00	7.48
		Middle	3 840.00	7.51
		High	3 970.00	7.46
256QAM	Low	3 710.00	7.49	
	Middle	3 840.00	7.48	
	High	3 970.00	7.47	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
11	QPSK	Low	3 710.00	7.46
		Middle	3 840.00	7.48
		High	3 970.00	7.49
	16QAM	Low	3 710.00	7.49
		Middle	3 840.00	7.53
		High	3 970.00	7.49
	64QAM	Low	3 710.00	7.47
		Middle	3 840.00	7.49
		High	3 970.00	7.46
256QAM	Low	3 710.00	7.50	
	Middle	3 840.00	7.49	
	High	3 970.00	7.51	
12	QPSK	Low	3 710.00	7.47
		Middle	3 840.00	7.51
		High	3 970.00	7.50
	16QAM	Low	3 710.00	7.52
		Middle	3 840.00	7.51
		High	3 970.00	7.51
	64QAM	Low	3 710.00	7.45
		Middle	3 840.00	7.50
		High	3 970.00	7.48
256QAM	Low	3 710.00	7.49	
	Middle	3 840.00	7.50	
	High	3 970.00	7.47	
13	QPSK	Low	3 710.00	7.48
		Middle	3 840.00	7.50
		High	3 970.00	7.49
	16QAM	Low	3 710.00	7.49
		Middle	3 840.00	7.53
		High	3 970.00	7.49
	64QAM	Low	3 710.00	7.46
		Middle	3 840.00	7.47
		High	3 970.00	7.47
256QAM	Low	3 710.00	7.49	
	Middle	3 840.00	7.49	
	High	3 970.00	7.45	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
14	QPSK	Low	3 710.00	7.47
		Middle	3 840.00	7.49
		High	3 970.00	7.49
	16QAM	Low	3 710.00	7.51
		Middle	3 840.00	7.51
		High	3 970.00	7.48
	64QAM	Low	3 710.00	7.47
		Middle	3 840.00	7.52
		High	3 970.00	7.48
256QAM	Low	3 710.00	7.49	
	Middle	3 840.00	7.50	
	High	3 970.00	7.46	
15	QPSK	Low	3 710.00	7.46
		Middle	3 840.00	7.50
		High	3 970.00	7.47
	16QAM	Low	3 710.00	7.49
		Middle	3 840.00	7.52
		High	3 970.00	7.51
	64QAM	Low	3 710.00	7.46
		Middle	3 840.00	7.48
		High	3 970.00	7.49
256QAM	Low	3 710.00	7.47	
	Middle	3 840.00	7.48	
	High	3 970.00	7.46	
16	QPSK	Low	3 710.00	7.49
		Middle	3 840.00	7.50
		High	3 970.00	7.48
	16QAM	Low	3 710.00	7.51
		Middle	3 840.00	7.50
		High	3 970.00	7.50
	64QAM	Low	3 710.00	7.47
		Middle	3 840.00	7.47
		High	3 970.00	7.47
256QAM	Low	3 710.00	7.51	
	Middle	3 840.00	7.47	
	High	3 970.00	7.47	



Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
17	QPSK	Low	3 710.00	7.52
		Middle	3 840.00	7.50
		High	3 970.00	7.47
	16QAM	Low	3 710.00	7.49
		Middle	3 840.00	7.52
		High	3 970.00	7.49
	64QAM	Low	3 710.00	7.45
		Middle	3 840.00	7.50
		High	3 970.00	7.47
256QAM	Low	3 710.00	7.49	
	Middle	3 840.00	7.48	
	High	3 970.00	7.49	
18	QPSK	Low	3 710.00	7.46
		Middle	3 840.00	7.50
		High	3 970.00	7.46
	16QAM	Low	3 710.00	7.51
		Middle	3 840.00	7.54
		High	3 970.00	7.45
	64QAM	Low	3 710.00	7.45
		Middle	3 840.00	7.53
		High	3 970.00	7.45
256QAM	Low	3 710.00	7.50	
	Middle	3 840.00	7.53	
	High	3 970.00	7.48	
19	QPSK	Low	3 710.00	7.49
		Middle	3 840.00	7.49
		High	3 970.00	7.48
	16QAM	Low	3 710.00	7.52
		Middle	3 840.00	7.53
		High	3 970.00	7.46
	64QAM	Low	3 710.00	7.47
		Middle	3 840.00	7.50
		High	3 970.00	7.44
256QAM	Low	3 710.00	7.49	
	Middle	3 840.00	7.49	
	High	3 970.00	7.40	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
20	QPSK	Low	3 710.00	7.48
		Middle	3 840.00	7.50
		High	3 970.00	7.50
	16QAM	Low	3 710.00	7.54
		Middle	3 840.00	7.54
		High	3 970.00	7.47
	64QAM	Low	3 710.00	7.49
		Middle	3 840.00	7.49
		High	3 970.00	7.46
256QAM	Low	3 710.00	7.48	
	Middle	3 840.00	7.48	
	High	3 970.00	7.46	
21	QPSK	Low	3 710.00	7.48
		Middle	3 840.00	7.48
		High	3 970.00	7.51
	16QAM	Low	3 710.00	7.51
		Middle	3 840.00	7.51
		High	3 970.00	7.45
	64QAM	Low	3 710.00	7.48
		Middle	3 840.00	7.47
		High	3 970.00	7.46
256QAM	Low	3 710.00	7.49	
	Middle	3 840.00	7.48	
	High	3 970.00	7.42	
22	QPSK	Low	3 710.00	7.50
		Middle	3 840.00	7.50
		High	3 970.00	7.49
	16QAM	Low	3 710.00	7.50
		Middle	3 840.00	7.53
		High	3 970.00	7.45
	64QAM	Low	3 710.00	7.48
		Middle	3 840.00	7.51
		High	3 970.00	7.47
256QAM	Low	3 710.00	7.50	
	Middle	3 840.00	7.51	
	High	3 970.00	7.45	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
23	QPSK	Low	3 710.00	7.45
		Middle	3 840.00	7.48
		High	3 970.00	7.49
	16QAM	Low	3 710.00	7.50
		Middle	3 840.00	7.52
		High	3 970.00	7.44
	64QAM	Low	3 710.00	7.46
		Middle	3 840.00	7.48
		High	3 970.00	7.43
256QAM	Low	3 710.00	7.49	
	Middle	3 840.00	7.47	
	High	3 970.00	7.43	
24	QPSK	Low	3 710.00	7.50
		Middle	3 840.00	7.47
		High	3 970.00	7.47
	16QAM	Low	3 710.00	7.51
		Middle	3 840.00	7.53
		High	3 970.00	7.49
	64QAM	Low	3 710.00	7.48
		Middle	3 840.00	7.49
		High	3 970.00	7.44
256QAM	Low	3 710.00	7.51	
	Middle	3 840.00	7.47	
	High	3 970.00	7.49	
25	QPSK	Low	3 710.00	7.47
		Middle	3 840.00	7.49
		High	3 970.00	7.48
	16QAM	Low	3 710.00	7.49
		Middle	3 840.00	7.51
		High	3 970.00	7.47
	64QAM	Low	3 710.00	7.45
		Middle	3 840.00	7.50
		High	3 970.00	7.47
256QAM	Low	3 710.00	7.50	
	Middle	3 840.00	7.48	
	High	3 970.00	7.45	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
26	QPSK	Low	3 710.00	7.50
		Middle	3 840.00	7.47
		High	3 970.00	7.49
	16QAM	Low	3 710.00	7.49
		Middle	3 840.00	7.50
		High	3 970.00	7.47
	64QAM	Low	3 710.00	7.47
		Middle	3 840.00	7.49
		High	3 970.00	7.48
256QAM	Low	3 710.00	7.49	
	Middle	3 840.00	7.48	
	High	3 970.00	7.46	
27	QPSK	Low	3 710.00	7.51
		Middle	3 840.00	7.46
		High	3 970.00	7.48
	16QAM	Low	3 710.00	7.51
		Middle	3 840.00	7.52
		High	3 970.00	7.52
	64QAM	Low	3 710.00	7.49
		Middle	3 840.00	7.48
		High	3 970.00	7.50
256QAM	Low	3 710.00	7.49	
	Middle	3 840.00	7.51	
	High	3 970.00	7.50	
28	QPSK	Low	3 710.00	7.49
		Middle	3 840.00	7.49
		High	3 970.00	7.49
	16QAM	Low	3 710.00	7.52
		Middle	3 840.00	7.54
		High	3 970.00	7.50
	64QAM	Low	3 710.00	7.46
		Middle	3 840.00	7.49
		High	3 970.00	7.50
256QAM	Low	3 710.00	7.51	
	Middle	3 840.00	7.47	
	High	3 970.00	7.45	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
29	QPSK	Low	3 710.00	7.51
		Middle	3 840.00	7.48
		High	3 970.00	7.52
	16QAM	Low	3 710.00	7.51
		Middle	3 840.00	7.49
		High	3 970.00	7.50
	64QAM	Low	3 710.00	7.46
		Middle	3 840.00	7.50
		High	3 970.00	7.49
256QAM	Low	3 710.00	7.50	
	Middle	3 840.00	7.49	
	High	3 970.00	7.48	
30	QPSK	Low	3 710.00	7.48
		Middle	3 840.00	7.44
		High	3 970.00	7.47
	16QAM	Low	3 710.00	7.48
		Middle	3 840.00	7.52
		High	3 970.00	7.51
	64QAM	Low	3 710.00	7.48
		Middle	3 840.00	7.49
		High	3 970.00	7.49
256QAM	Low	3 710.00	7.46	
	Middle	3 840.00	7.50	
	High	3 970.00	7.48	
31	QPSK	Low	3 710.00	7.50
		Middle	3 840.00	7.47
		High	3 970.00	7.48
	16QAM	Low	3 710.00	7.52
		Middle	3 840.00	7.54
		High	3 970.00	7.53
	64QAM	Low	3 710.00	7.46
		Middle	3 840.00	7.52
		High	3 970.00	7.49
256QAM	Low	3 710.00	7.49	
	Middle	3 840.00	7.49	
	High	3 970.00	7.49	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
32	QPSK	Low	3 710.00	7.49
		Middle	3 840.00	7.46
		High	3 970.00	7.38
	16QAM	Low	3 710.00	7.51
		Middle	3 840.00	7.52
		High	3 970.00	7.35
	64QAM	Low	3 710.00	7.43
		Middle	3 840.00	7.48
		High	3 970.00	7.47
256QAM	Low	3 710.00	7.48	
	Middle	3 840.00	7.50	
	High	3 970.00	7.38	
33	QPSK	Low	3 710.00	7.45
		Middle	3 840.00	7.50
		High	3 970.00	7.45
	16QAM	Low	3 710.00	7.51
		Middle	3 840.00	7.54
		High	3 970.00	7.47
	64QAM	Low	3 710.00	7.49
		Middle	3 840.00	7.51
		High	3 970.00	7.48
256QAM	Low	3 710.00	7.52	
	Middle	3 840.00	7.52	
	High	3 970.00	7.42	
34	QPSK	Low	3 710.00	7.50
		Middle	3 840.00	7.47
		High	3 970.00	7.44
	16QAM	Low	3 710.00	7.50
		Middle	3 840.00	7.54
		High	3 970.00	7.48
	64QAM	Low	3 710.00	7.49
		Middle	3 840.00	7.51
		High	3 970.00	7.49
256QAM	Low	3 710.00	7.49	
	Middle	3 840.00	7.51	
	High	3 970.00	7.46	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
35	QPSK	Low	3 710.00	7.47
		Middle	3 840.00	7.48
		High	3 970.00	7.49
	16QAM	Low	3 710.00	7.51
		Middle	3 840.00	7.50
		High	3 970.00	7.50
	64QAM	Low	3 710.00	7.49
		Middle	3 840.00	7.46
		High	3 970.00	7.47
	256QAM	Low	3 710.00	7.49
		Middle	3 840.00	7.48
		High	3 970.00	7.43
36	QPSK	Low	3 710.00	7.50
		Middle	3 840.00	7.46
		High	3 970.00	7.42
	16QAM	Low	3 710.00	7.52
		Middle	3 840.00	7.52
		High	3 970.00	7.49
	64QAM	Low	3 710.00	7.47
		Middle	3 840.00	7.48
		High	3 970.00	7.47
	256QAM	Low	3 710.00	7.48
		Middle	3 840.00	7.49
		High	3 970.00	7.43
37	QPSK	Low	3 710.00	7.49
		Middle	3 840.00	7.48
		High	3 970.00	7.46
	16QAM	Low	3 710.00	7.49
		Middle	3 840.00	7.51
		High	3 970.00	7.49
	64QAM	Low	3 710.00	7.48
		Middle	3 840.00	7.50
		High	3 970.00	7.45
	256QAM	Low	3 710.00	7.50
		Middle	3 840.00	7.47
		High	3 970.00	7.47

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
38	QPSK	Low	3 710.00	7.50
		Middle	3 840.00	7.47
		High	3 970.00	7.47
	16QAM	Low	3 710.00	7.51
		Middle	3 840.00	7.48
		High	3 970.00	7.52
	64QAM	Low	3 710.00	7.47
		Middle	3 840.00	7.50
		High	3 970.00	7.49
256QAM	Low	3 710.00	7.51	
	Middle	3 840.00	7.47	
	High	3 970.00	7.45	
39	QPSK	Low	3 710.00	7.49
		Middle	3 840.00	7.48
		High	3 970.00	7.45
	16QAM	Low	3 710.00	7.50
		Middle	3 840.00	7.52
		High	3 970.00	7.50
	64QAM	Low	3 710.00	7.47
		Middle	3 840.00	7.50
		High	3 970.00	7.48
256QAM	Low	3 710.00	7.48	
	Middle	3 840.00	7.50	
	High	3 970.00	7.45	
40	QPSK	Low	3 710.00	7.49
		Middle	3 840.00	7.48
		High	3 970.00	7.45
	16QAM	Low	3 710.00	7.52
		Middle	3 840.00	7.50
		High	3 970.00	7.51
	64QAM	Low	3 710.00	7.48
		Middle	3 840.00	7.50
		High	3 970.00	7.47
256QAM	Low	3 710.00	7.51	
	Middle	3 840.00	7.48	
	High	3 970.00	7.46	



Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
41	QPSK	Low	3 710.00	7.50
		Middle	3 840.00	7.48
		High	3 970.00	7.48
	16QAM	Low	3 710.00	7.52
		Middle	3 840.00	7.52
		High	3 970.00	7.49
	64QAM	Low	3 710.00	7.48
		Middle	3 840.00	7.49
		High	3 970.00	7.37
256QAM	Low	3 710.00	7.49	
	Middle	3 840.00	7.50	
	High	3 970.00	7.48	
42	QPSK	Low	3 710.00	7.46
		Middle	3 840.00	7.47
		High	3 970.00	7.44
	16QAM	Low	3 710.00	7.51
		Middle	3 840.00	7.52
		High	3 970.00	7.48
	64QAM	Low	3 710.00	7.47
		Middle	3 840.00	7.50
		High	3 970.00	7.45
256QAM	Low	3 710.00	7.51	
	Middle	3 840.00	7.48	
	High	3 970.00	7.43	
43	QPSK	Low	3 710.00	7.47
		Middle	3 840.00	7.47
		High	3 970.00	7.47
	16QAM	Low	3 710.00	7.54
		Middle	3 840.00	7.53
		High	3 970.00	7.50
	64QAM	Low	3 710.00	7.49
		Middle	3 840.00	7.50
		High	3 970.00	7.47
256QAM	Low	3 710.00	7.52	
	Middle	3 840.00	7.48	
	High	3 970.00	7.49	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
44	QPSK	Low	3 710.00	7.52
		Middle	3 840.00	7.48
		High	3 970.00	7.47
	16QAM	Low	3 710.00	7.55
		Middle	3 840.00	7.53
		High	3 970.00	7.48
	64QAM	Low	3 710.00	7.48
		Middle	3 840.00	7.49
		High	3 970.00	7.43
256QAM	Low	3 710.00	7.52	
	Middle	3 840.00	7.49	
	High	3 970.00	7.48	
45	QPSK	Low	3 710.00	7.48
		Middle	3 840.00	7.48
		High	3 970.00	7.48
	16QAM	Low	3 710.00	7.52
		Middle	3 840.00	7.53
		High	3 970.00	7.46
	64QAM	Low	3 710.00	7.48
		Middle	3 840.00	7.51
		High	3 970.00	7.47
256QAM	Low	3 710.00	7.49	
	Middle	3 840.00	7.49	
	High	3 970.00	7.45	
46	QPSK	Low	3 710.00	7.50
		Middle	3 840.00	7.50
		High	3 970.00	7.49
	16QAM	Low	3 710.00	7.52
		Middle	3 840.00	7.51
		High	3 970.00	7.49
	64QAM	Low	3 710.00	7.47
		Middle	3 840.00	7.48
		High	3 970.00	7.47
256QAM	Low	3 710.00	7.51	
	Middle	3 840.00	7.48	
	High	3 970.00	7.48	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
47	QPSK	Low	3 710.00	7.48
		Middle	3 840.00	7.48
		High	3 970.00	7.50
	16QAM	Low	3 710.00	7.51
		Middle	3 840.00	7.53
		High	3 970.00	7.46
	64QAM	Low	3 710.00	7.50
		Middle	3 840.00	7.48
		High	3 970.00	7.49
256QAM	Low	3 710.00	7.50	
	Middle	3 840.00	7.49	
	High	3 970.00	7.47	
48	QPSK	Low	3 710.00	7.49
		Middle	3 840.00	7.47
		High	3 970.00	7.46
	16QAM	Low	3 710.00	7.52
		Middle	3 840.00	7.51
		High	3 970.00	7.50
	64QAM	Low	3 710.00	7.50
		Middle	3 840.00	7.49
		High	3 970.00	7.48
256QAM	Low	3 710.00	7.51	
	Middle	3 840.00	7.46	
	High	3 970.00	7.48	
49	QPSK	Low	3 710.00	7.52
		Middle	3 840.00	7.49
		High	3 970.00	7.47
	16QAM	Low	3 710.00	7.54
		Middle	3 840.00	7.52
		High	3 970.00	7.49
	64QAM	Low	3 710.00	7.50
		Middle	3 840.00	7.50
		High	3 970.00	7.45
256QAM	Low	3 710.00	7.51	
	Middle	3 840.00	7.49	
	High	3 970.00	7.48	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
50	QPSK	Low	3 710.00	7.49
		Middle	3 840.00	7.49
		High	3 970.00	7.46
	16QAM	Low	3 710.00	7.52
		Middle	3 840.00	7.55
		High	3 970.00	7.50
	64QAM	Low	3 710.00	7.48
		Middle	3 840.00	7.50
		High	3 970.00	7.50
	256QAM	Low	3 710.00	7.48
		Middle	3 840.00	7.52
		High	3 970.00	7.48
51	QPSK	Low	3 710.00	7.49
		Middle	3 840.00	7.50
		High	3 970.00	7.50
	16QAM	Low	3 710.00	7.50
		Middle	3 840.00	7.55
		High	3 970.00	7.50
	64QAM	Low	3 710.00	7.52
		Middle	3 840.00	7.51
		High	3 970.00	7.48
	256QAM	Low	3 710.00	7.50
		Middle	3 840.00	7.49
		High	3 970.00	7.47
52	QPSK	Low	3 710.00	7.50
		Middle	3 840.00	7.49
		High	3 970.00	7.48
	16QAM	Low	3 710.00	7.52
		Middle	3 840.00	7.52
		High	3 970.00	7.49
	64QAM	Low	3 710.00	7.49
		Middle	3 840.00	7.49
		High	3 970.00	7.46
	256QAM	Low	3 710.00	7.49
		Middle	3 840.00	7.49
		High	3 970.00	7.47

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
53	QPSK	Low	3 710.00	7.49
		Middle	3 840.00	7.47
		High	3 970.00	7.47
	16QAM	Low	3 710.00	7.51
		Middle	3 840.00	7.51
		High	3 970.00	7.50
	64QAM	Low	3 710.00	7.47
		Middle	3 840.00	7.49
		High	3 970.00	7.48
256QAM	Low	3 710.00	7.49	
	Middle	3 840.00	7.48	
	High	3 970.00	7.46	
54	QPSK	Low	3 710.00	7.48
		Middle	3 840.00	7.50
		High	3 970.00	7.49
	16QAM	Low	3 710.00	7.48
		Middle	3 840.00	7.52
		High	3 970.00	7.52
	64QAM	Low	3 710.00	7.47
		Middle	3 840.00	7.49
		High	3 970.00	7.49
256QAM	Low	3 710.00	7.50	
	Middle	3 840.00	7.49	
	High	3 970.00	7.48	
55	QPSK	Low	3 710.00	7.48
		Middle	3 840.00	7.50
		High	3 970.00	7.48
	16QAM	Low	3 710.00	7.52
		Middle	3 840.00	7.52
		High	3 970.00	7.51
	64QAM	Low	3 710.00	7.48
		Middle	3 840.00	7.50
		High	3 970.00	7.48
256QAM	Low	3 710.00	7.48	
	Middle	3 840.00	7.49	
	High	3 970.00	7.48	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
56	QPSK	Low	3 710.00	7.50
		Middle	3 840.00	7.50
		High	3 970.00	7.46
	16QAM	Low	3 710.00	7.52
		Middle	3 840.00	7.52
		High	3 970.00	7.52
	64QAM	Low	3 710.00	7.49
		Middle	3 840.00	7.49
		High	3 970.00	7.49
256QAM	Low	3 710.00	7.51	
	Middle	3 840.00	7.47	
	High	3 970.00	7.49	
57	QPSK	Low	3 710.00	7.50
		Middle	3 840.00	7.48
		High	3 970.00	7.47
	16QAM	Low	3 710.00	7.53
		Middle	3 840.00	7.52
		High	3 970.00	7.54
	64QAM	Low	3 710.00	7.50
		Middle	3 840.00	7.50
		High	3 970.00	7.47
256QAM	Low	3 710.00	7.52	
	Middle	3 840.00	7.49	
	High	3 970.00	7.48	
58	QPSK	Low	3 710.00	7.49
		Middle	3 840.00	7.50
		High	3 970.00	7.47
	16QAM	Low	3 710.00	7.54
		Middle	3 840.00	7.53
		High	3 970.00	7.51
	64QAM	Low	3 710.00	7.48
		Middle	3 840.00	7.51
		High	3 970.00	7.47
256QAM	Low	3 710.00	7.51	
	Middle	3 840.00	7.50	
	High	3 970.00	7.46	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
59	QPSK	Low	3 710.00	7.51
		Middle	3 840.00	7.47
		High	3 970.00	7.47
	16QAM	Low	3 710.00	7.51
		Middle	3 840.00	7.51
		High	3 970.00	7.49
	64QAM	Low	3 710.00	7.50
		Middle	3 840.00	7.52
		High	3 970.00	7.48
256QAM	Low	3 710.00	7.48	
	Middle	3 840.00	7.50	
	High	3 970.00	7.44	
60	QPSK	Low	3 710.00	7.50
		Middle	3 840.00	7.48
		High	3 970.00	7.44
	16QAM	Low	3 710.00	7.51
		Middle	3 840.00	7.53
		High	3 970.00	7.51
	64QAM	Low	3 710.00	7.46
		Middle	3 840.00	7.53
		High	3 970.00	7.47
256QAM	Low	3 710.00	7.50	
	Middle	3 840.00	7.50	
	High	3 970.00	7.48	
61	QPSK	Low	3 710.00	7.49
		Middle	3 840.00	7.49
		High	3 970.00	7.44
	16QAM	Low	3 710.00	7.52
		Middle	3 840.00	7.51
		High	3 970.00	7.51
	64QAM	Low	3 710.00	7.48
		Middle	3 840.00	7.46
		High	3 970.00	7.47
256QAM	Low	3 710.00	7.49	
	Middle	3 840.00	7.47	
	High	3 970.00	7.47	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
62	QPSK	Low	3 710.00	7.49
		Middle	3 840.00	7.49
		High	3 970.00	7.47
	16QAM	Low	3 710.00	7.53
		Middle	3 840.00	7.54
		High	3 970.00	7.50
	64QAM	Low	3 710.00	7.47
		Middle	3 840.00	7.51
		High	3 970.00	7.41
256QAM	Low	3 710.00	7.49	
	Middle	3 840.00	7.48	
	High	3 970.00	7.49	
63	QPSK	Low	3 710.00	7.46
		Middle	3 840.00	7.50
		High	3 970.00	7.47
	16QAM	Low	3 710.00	7.53
		Middle	3 840.00	7.52
		High	3 970.00	7.50
	64QAM	Low	3 710.00	7.47
		Middle	3 840.00	7.50
		High	3 970.00	7.47
256QAM	Low	3 710.00	7.51	
	Middle	3 840.00	7.49	
	High	3 970.00	7.48	



## (64 Port) 5G NR n77 40 MHz [1 Carrier]

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	3 720.00	7.46
		Middle	3 840.00	7.51
		High	3 960.00	7.59
	16QAM	Low	3 720.00	7.51
		Middle	3 840.00	7.53
		High	3 960.00	7.42
	64QAM	Low	3 720.00	7.59
		Middle	3 840.00	7.53
		High	3 960.00	7.52
	256QAM	Low	3 720.00	7.43
		Middle	3 840.00	7.52
		High	3 960.00	7.47
1	QPSK	Low	3 720.00	7.43
		Middle	3 840.00	7.48
		High	3 960.00	7.42
	16QAM	Low	3 720.00	7.52
		Middle	3 840.00	7.53
		High	3 960.00	7.45
	64QAM	Low	3 720.00	7.50
		Middle	3 840.00	7.52
		High	3 960.00	7.47
	256QAM	Low	3 720.00	7.50
		Middle	3 840.00	7.52
		High	3 960.00	7.43

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
2	QPSK	Low	3 720.00	7.51
		Middle	3 840.00	7.50
		High	3 960.00	7.48
	16QAM	Low	3 720.00	7.56
		Middle	3 840.00	7.51
		High	3 960.00	7.41
	64QAM	Low	3 720.00	7.54
		Middle	3 840.00	7.52
		High	3 960.00	7.50
256QAM	Low	3 720.00	7.53	
	Middle	3 840.00	7.49	
	High	3 960.00	7.50	
3	QPSK	Low	3 720.00	7.47
		Middle	3 840.00	7.51
		High	3 960.00	7.47
	16QAM	Low	3 720.00	7.53
		Middle	3 840.00	7.52
		High	3 960.00	7.48
	64QAM	Low	3 720.00	7.52
		Middle	3 840.00	7.55
		High	3 960.00	7.51
256QAM	Low	3 720.00	7.51	
	Middle	3 840.00	7.53	
	High	3 960.00	7.51	
4	QPSK	Low	3 720.00	7.50
		Middle	3 840.00	7.50
		High	3 960.00	7.45
	16QAM	Low	3 720.00	7.54
		Middle	3 840.00	7.55
		High	3 960.00	7.48
	64QAM	Low	3 720.00	7.50
		Middle	3 840.00	7.56
		High	3 960.00	7.51
256QAM	Low	3 720.00	7.55	
	Middle	3 840.00	7.52	
	High	3 960.00	7.49	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
5	QPSK	Low	3 720.00	7.48
		Middle	3 840.00	7.50
		High	3 960.00	7.46
	16QAM	Low	3 720.00	7.54
		Middle	3 840.00	7.53
		High	3 960.00	7.48
	64QAM	Low	3 720.00	7.54
		Middle	3 840.00	7.52
		High	3 960.00	7.52
256QAM	Low	3 720.00	7.50	
	Middle	3 840.00	7.53	
	High	3 960.00	7.50	
6	QPSK	Low	3 720.00	7.46
		Middle	3 840.00	7.50
		High	3 960.00	7.44
	16QAM	Low	3 720.00	7.54
		Middle	3 840.00	7.52
		High	3 960.00	7.52
	64QAM	Low	3 720.00	7.55
		Middle	3 840.00	7.53
		High	3 960.00	7.54
256QAM	Low	3 720.00	7.53	
	Middle	3 840.00	7.51	
	High	3 960.00	7.52	
7	QPSK	Low	3 720.00	7.48
		Middle	3 840.00	7.51
		High	3 960.00	7.46
	16QAM	Low	3 720.00	7.53
		Middle	3 840.00	7.52
		High	3 960.00	7.51
	64QAM	Low	3 720.00	7.54
		Middle	3 840.00	7.55
		High	3 960.00	7.52
256QAM	Low	3 720.00	7.52	
	Middle	3 840.00	7.50	
	High	3 960.00	7.53	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
8	QPSK	Low	3 720.00	7.51
		Middle	3 840.00	7.51
		High	3 960.00	7.49
	16QAM	Low	3 720.00	7.54
		Middle	3 840.00	7.54
		High	3 960.00	7.49
	64QAM	Low	3 720.00	7.54
		Middle	3 840.00	7.54
		High	3 960.00	7.53
256QAM	Low	3 720.00	7.54	
	Middle	3 840.00	7.53	
	High	3 960.00	7.54	
9	QPSK	Low	3 720.00	7.51
		Middle	3 840.00	7.51
		High	3 960.00	7.54
	16QAM	Low	3 720.00	7.53
		Middle	3 840.00	7.53
		High	3 960.00	7.57
	64QAM	Low	3 720.00	7.53
		Middle	3 840.00	7.54
		High	3 960.00	7.58
256QAM	Low	3 720.00	7.52	
	Middle	3 840.00	7.51	
	High	3 960.00	7.54	
10	QPSK	Low	3 720.00	7.50
		Middle	3 840.00	7.51
		High	3 960.00	7.52
	16QAM	Low	3 720.00	7.55
		Middle	3 840.00	7.54
		High	3 960.00	7.55
	64QAM	Low	3 720.00	7.55
		Middle	3 840.00	7.55
		High	3 960.00	7.57
256QAM	Low	3 720.00	7.51	
	Middle	3 840.00	7.53	
	High	3 960.00	7.56	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
11	QPSK	Low	3 720.00	7.53
		Middle	3 840.00	7.49
		High	3 960.00	7.50
	16QAM	Low	3 720.00	7.55
		Middle	3 840.00	7.53
		High	3 960.00	7.52
	64QAM	Low	3 720.00	7.56
		Middle	3 840.00	7.55
		High	3 960.00	7.58
256QAM	Low	3 720.00	7.55	
	Middle	3 840.00	7.52	
	High	3 960.00	7.51	
12	QPSK	Low	3 720.00	7.51
		Middle	3 840.00	7.52
		High	3 960.00	7.53
	16QAM	Low	3 720.00	7.57
		Middle	3 840.00	7.54
		High	3 960.00	7.53
	64QAM	Low	3 720.00	7.54
		Middle	3 840.00	7.54
		High	3 960.00	7.59
256QAM	Low	3 720.00	7.52	
	Middle	3 840.00	7.53	
	High	3 960.00	7.56	
13	QPSK	Low	3 720.00	7.51
		Middle	3 840.00	7.52
		High	3 960.00	7.54
	16QAM	Low	3 720.00	7.57
		Middle	3 840.00	7.54
		High	3 960.00	7.55
	64QAM	Low	3 720.00	7.55
		Middle	3 840.00	7.54
		High	3 960.00	7.58
256QAM	Low	3 720.00	7.49	
	Middle	3 840.00	7.52	
	High	3 960.00	7.54	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
14	QPSK	Low	3 720.00	7.52
		Middle	3 840.00	7.50
		High	3 960.00	7.53
	16QAM	Low	3 720.00	7.56
		Middle	3 840.00	7.54
		High	3 960.00	7.54
	64QAM	Low	3 720.00	7.57
		Middle	3 840.00	7.56
		High	3 960.00	7.56
256QAM	Low	3 720.00	7.52	
	Middle	3 840.00	7.50	
	High	3 960.00	7.55	
15	QPSK	Low	3 720.00	7.51
		Middle	3 840.00	7.51
		High	3 960.00	7.53
	16QAM	Low	3 720.00	7.51
		Middle	3 840.00	7.53
		High	3 960.00	7.55
	64QAM	Low	3 720.00	7.56
		Middle	3 840.00	7.54
		High	3 960.00	7.57
256QAM	Low	3 720.00	7.53	
	Middle	3 840.00	7.52	
	High	3 960.00	7.57	
16	QPSK	Low	3 720.00	7.53
		Middle	3 840.00	7.51
		High	3 960.00	7.52
	16QAM	Low	3 720.00	7.56
		Middle	3 840.00	7.53
		High	3 960.00	7.53
	64QAM	Low	3 720.00	7.56
		Middle	3 840.00	7.54
		High	3 960.00	7.55
256QAM	Low	3 720.00	7.55	
	Middle	3 840.00	7.52	
	High	3 960.00	7.53	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
17	QPSK	Low	3 720.00	7.53
		Middle	3 840.00	7.53
		High	3 960.00	7.50
	16QAM	Low	3 720.00	7.58
		Middle	3 840.00	7.54
		High	3 960.00	7.53
	64QAM	Low	3 720.00	7.56
		Middle	3 840.00	7.53
		High	3 960.00	7.54
256QAM	Low	3 720.00	7.55	
	Middle	3 840.00	7.52	
	High	3 960.00	7.55	
18	QPSK	Low	3 720.00	7.52
		Middle	3 840.00	7.51
		High	3 960.00	7.51
	16QAM	Low	3 720.00	7.59
		Middle	3 840.00	7.52
		High	3 960.00	7.56
	64QAM	Low	3 720.00	7.57
		Middle	3 840.00	7.54
		High	3 960.00	7.56
256QAM	Low	3 720.00	7.54	
	Middle	3 840.00	7.51	
	High	3 960.00	7.51	
19	QPSK	Low	3 720.00	7.49
		Middle	3 840.00	7.50
		High	3 960.00	7.42
	16QAM	Low	3 720.00	7.55
		Middle	3 840.00	7.53
		High	3 960.00	7.41
	64QAM	Low	3 720.00	7.54
		Middle	3 840.00	7.49
		High	3 960.00	7.49
256QAM	Low	3 720.00	7.53	
	Middle	3 840.00	7.51	
	High	3 960.00	7.42	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
20	QPSK	Low	3 720.00	7.48
		Middle	3 840.00	7.50
		High	3 960.00	7.49
	16QAM	Low	3 720.00	7.55
		Middle	3 840.00	7.53
		High	3 960.00	7.48
	64QAM	Low	3 720.00	7.54
		Middle	3 840.00	7.54
		High	3 960.00	7.48
256QAM	Low	3 720.00	7.50	
	Middle	3 840.00	7.52	
	High	3 960.00	7.44	
21	QPSK	Low	3 720.00	7.54
		Middle	3 840.00	7.51
		High	3 960.00	7.49
	16QAM	Low	3 720.00	7.57
		Middle	3 840.00	7.55
		High	3 960.00	7.48
	64QAM	Low	3 720.00	7.57
		Middle	3 840.00	7.52
		High	3 960.00	7.51
256QAM	Low	3 720.00	7.54	
	Middle	3 840.00	7.51	
	High	3 960.00	7.49	
22	QPSK	Low	3 720.00	7.49
		Middle	3 840.00	7.50
		High	3 960.00	7.47
	16QAM	Low	3 720.00	7.57
		Middle	3 840.00	7.51
		High	3 960.00	7.46
	64QAM	Low	3 720.00	7.56
		Middle	3 840.00	7.51
		High	3 960.00	7.50
256QAM	Low	3 720.00	7.53	
	Middle	3 840.00	7.50	
	High	3 960.00	7.46	



Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
23	QPSK	Low	3 720.00	7.49
		Middle	3 840.00	7.48
		High	3 960.00	7.45
	16QAM	Low	3 720.00	7.55
		Middle	3 840.00	7.51
		High	3 960.00	7.48
	64QAM	Low	3 720.00	7.54
		Middle	3 840.00	7.53
		High	3 960.00	7.53
256QAM	Low	3 720.00	7.52	
	Middle	3 840.00	7.51	
	High	3 960.00	7.50	
24	QPSK	Low	3 720.00	7.53
		Middle	3 840.00	7.51
		High	3 960.00	7.51
	16QAM	Low	3 720.00	7.57
		Middle	3 840.00	7.54
		High	3 960.00	7.52
	64QAM	Low	3 720.00	7.56
		Middle	3 840.00	7.56
		High	3 960.00	7.57
256QAM	Low	3 720.00	7.55	
	Middle	3 840.00	7.53	
	High	3 960.00	7.53	
25	QPSK	Low	3 720.00	7.53
		Middle	3 840.00	7.52
		High	3 960.00	7.51
	16QAM	Low	3 720.00	7.57
		Middle	3 840.00	7.54
		High	3 960.00	7.52
	64QAM	Low	3 720.00	7.55
		Middle	3 840.00	7.55
		High	3 960.00	7.54
256QAM	Low	3 720.00	7.53	
	Middle	3 840.00	7.52	
	High	3 960.00	7.54	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
26	QPSK	Low	3 720.00	7.54
		Middle	3 840.00	7.49
		High	3 960.00	7.50
	16QAM	Low	3 720.00	7.57
		Middle	3 840.00	7.53
		High	3 960.00	7.52
	64QAM	Low	3 720.00	7.54
		Middle	3 840.00	7.55
		High	3 960.00	7.53
256QAM	Low	3 720.00	7.55	
	Middle	3 840.00	7.52	
	High	3 960.00	7.50	
27	QPSK	Low	3 720.00	7.53
		Middle	3 840.00	7.51
		High	3 960.00	7.51
	16QAM	Low	3 720.00	7.57
		Middle	3 840.00	7.54
		High	3 960.00	7.52
	64QAM	Low	3 720.00	7.57
		Middle	3 840.00	7.56
		High	3 960.00	7.56
256QAM	Low	3 720.00	7.53	
	Middle	3 840.00	7.52	
	High	3 960.00	7.54	
28	QPSK	Low	3 720.00	7.53
		Middle	3 840.00	7.51
		High	3 960.00	7.53
	16QAM	Low	3 720.00	7.52
		Middle	3 840.00	7.53
		High	3 960.00	7.51
	64QAM	Low	3 720.00	7.57
		Middle	3 840.00	7.53
		High	3 960.00	7.56
256QAM	Low	3 720.00	7.53	
	Middle	3 840.00	7.52	
	High	3 960.00	7.53	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
29	QPSK	Low	3 720.00	7.54
		Middle	3 840.00	7.50
		High	3 960.00	7.53
	16QAM	Low	3 720.00	7.57
		Middle	3 840.00	7.53
		High	3 960.00	7.54
	64QAM	Low	3 720.00	7.56
		Middle	3 840.00	7.54
		High	3 960.00	7.56
256QAM	Low	3 720.00	7.52	
	Middle	3 840.00	7.50	
	High	3 960.00	7.56	
30	QPSK	Low	3 720.00	7.53
		Middle	3 840.00	7.51
		High	3 960.00	7.55
	16QAM	Low	3 720.00	7.55
		Middle	3 840.00	7.53
		High	3 960.00	7.56
	64QAM	Low	3 720.00	7.58
		Middle	3 840.00	7.55
		High	3 960.00	7.56
256QAM	Low	3 720.00	7.55	
	Middle	3 840.00	7.51	
	High	3 960.00	7.55	
31	QPSK	Low	3 720.00	7.52
		Middle	3 840.00	7.50
		High	3 960.00	7.56
	16QAM	Low	3 720.00	7.54
		Middle	3 840.00	7.54
		High	3 960.00	7.55
	64QAM	Low	3 720.00	7.56
		Middle	3 840.00	7.55
		High	3 960.00	7.57
256QAM	Low	3 720.00	7.54	
	Middle	3 840.00	7.51	
	High	3 960.00	7.54	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
32	QPSK	Low	3 720.00	7.50
		Middle	3 840.00	7.49
		High	3 960.00	7.46
	16QAM	Low	3 720.00	7.57
		Middle	3 840.00	7.50
		High	3 960.00	7.42
	64QAM	Low	3 720.00	7.53
		Middle	3 840.00	7.53
		High	3 960.00	7.45
256QAM	Low	3 720.00	7.50	
	Middle	3 840.00	7.50	
	High	3 960.00	7.39	
33	QPSK	Low	3 720.00	7.47
		Middle	3 840.00	7.51
		High	3 960.00	7.46
	16QAM	Low	3 720.00	7.55
		Middle	3 840.00	7.59
		High	3 960.00	7.45
	64QAM	Low	3 720.00	7.54
		Middle	3 840.00	7.54
		High	3 960.00	7.49
256QAM	Low	3 720.00	7.53	
	Middle	3 840.00	7.55	
	High	3 960.00	7.50	
34	QPSK	Low	3 720.00	7.49
		Middle	3 840.00	7.52
		High	3 960.00	7.53
	16QAM	Low	3 720.00	7.56
		Middle	3 840.00	7.57
		High	3 960.00	7.50
	64QAM	Low	3 720.00	7.53
		Middle	3 840.00	7.55
		High	3 960.00	7.52
256QAM	Low	3 720.00	7.52	
	Middle	3 840.00	7.52	
	High	3 960.00	7.49	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
35	QPSK	Low	3 720.00	7.50
		Middle	3 840.00	7.48
		High	3 960.00	7.47
	16QAM	Low	3 720.00	7.57
		Middle	3 840.00	7.51
		High	3 960.00	7.50
	64QAM	Low	3 720.00	7.53
		Middle	3 840.00	7.52
		High	3 960.00	7.53
256QAM	Low	3 720.00	7.54	
	Middle	3 840.00	7.51	
	High	3 960.00	7.50	
36	QPSK	Low	3 720.00	7.49
		Middle	3 840.00	7.52
		High	3 960.00	7.52
	16QAM	Low	3 720.00	7.54
		Middle	3 840.00	7.53
		High	3 960.00	7.45
	64QAM	Low	3 720.00	7.54
		Middle	3 840.00	7.55
		High	3 960.00	7.52
256QAM	Low	3 720.00	7.49	
	Middle	3 840.00	7.54	
	High	3 960.00	7.49	
37	QPSK	Low	3 720.00	7.49
		Middle	3 840.00	7.49
		High	3 960.00	7.50
	16QAM	Low	3 720.00	7.56
		Middle	3 840.00	7.52
		High	3 960.00	7.45
	64QAM	Low	3 720.00	7.55
		Middle	3 840.00	7.52
		High	3 960.00	7.49
256QAM	Low	3 720.00	7.54	
	Middle	3 840.00	7.52	
	High	3 960.00	7.50	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
38	QPSK	Low	3 720.00	7.52
		Middle	3 840.00	7.48
		High	3 960.00	7.49
	16QAM	Low	3 720.00	7.58
		Middle	3 840.00	7.51
		High	3 960.00	7.53
	64QAM	Low	3 720.00	7.56
		Middle	3 840.00	7.51
		High	3 960.00	7.56
256QAM	Low	3 720.00	7.52	
	Middle	3 840.00	7.50	
	High	3 960.00	7.52	
39	QPSK	Low	3 720.00	7.51
		Middle	3 840.00	7.51
		High	3 960.00	7.49
	16QAM	Low	3 720.00	7.58
		Middle	3 840.00	7.53
		High	3 960.00	7.54
	64QAM	Low	3 720.00	7.58
		Middle	3 840.00	7.53
		High	3 960.00	7.55
256QAM	Low	3 720.00	7.53	
	Middle	3 840.00	7.53	
	High	3 960.00	7.51	
40	QPSK	Low	3 720.00	7.52
		Middle	3 840.00	7.51
		High	3 960.00	7.54
	16QAM	Low	3 720.00	7.59
		Middle	3 840.00	7.53
		High	3 960.00	7.55
	64QAM	Low	3 720.00	7.58
		Middle	3 840.00	7.53
		High	3 960.00	7.57
256QAM	Low	3 720.00	7.56	
	Middle	3 840.00	7.51	
	High	3 960.00	7.55	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
41	QPSK	Low	3 720.00	7.54
		Middle	3 840.00	7.52
		High	3 960.00	7.38
	16QAM	Low	3 720.00	7.61
		Middle	3 840.00	7.54
		High	3 960.00	7.36
	64QAM	Low	3 720.00	7.58
		Middle	3 840.00	7.55
		High	3 960.00	7.49
256QAM	Low	3 720.00	7.56	
	Middle	3 840.00	7.53	
	High	3 960.00	7.39	
42	QPSK	Low	3 720.00	7.53
		Middle	3 840.00	7.49
		High	3 960.00	7.55
	16QAM	Low	3 720.00	7.57
		Middle	3 840.00	7.54
		High	3 960.00	7.53
	64QAM	Low	3 720.00	7.54
		Middle	3 840.00	7.53
		High	3 960.00	7.58
256QAM	Low	3 720.00	7.56	
	Middle	3 840.00	7.51	
	High	3 960.00	7.54	
43	QPSK	Low	3 720.00	7.54
		Middle	3 840.00	7.50
		High	3 960.00	7.53
	16QAM	Low	3 720.00	7.60
		Middle	3 840.00	7.52
		High	3 960.00	7.54
	64QAM	Low	3 720.00	7.58
		Middle	3 840.00	7.54
		High	3 960.00	7.53
256QAM	Low	3 720.00	7.57	
	Middle	3 840.00	7.51	
	High	3 960.00	7.54	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
44	QPSK	Low	3 720.00	7.51
		Middle	3 840.00	7.49
		High	3 960.00	7.51
	16QAM	Low	3 720.00	7.58
		Middle	3 840.00	7.53
		High	3 960.00	7.52
	64QAM	Low	3 720.00	7.58
		Middle	3 840.00	7.54
		High	3 960.00	7.55
256QAM	Low	3 720.00	7.56	
	Middle	3 840.00	7.52	
	High	3 960.00	7.53	
45	QPSK	Low	3 720.00	7.54
		Middle	3 840.00	7.50
		High	3 960.00	7.53
	16QAM	Low	3 720.00	7.57
		Middle	3 840.00	7.54
		High	3 960.00	7.54
	64QAM	Low	3 720.00	7.57
		Middle	3 840.00	7.54
		High	3 960.00	7.57
256QAM	Low	3 720.00	7.54	
	Middle	3 840.00	7.52	
	High	3 960.00	7.54	
46	QPSK	Low	3 720.00	7.53
		Middle	3 840.00	7.51
		High	3 960.00	7.55
	16QAM	Low	3 720.00	7.60
		Middle	3 840.00	7.56
		High	3 960.00	7.54
	64QAM	Low	3 720.00	7.58
		Middle	3 840.00	7.56
		High	3 960.00	7.56
256QAM	Low	3 720.00	7.58	
	Middle	3 840.00	7.51	
	High	3 960.00	7.56	



Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
47	QPSK	Low	3 720.00	7.53
		Middle	3 840.00	7.49
		High	3 960.00	7.52
	16QAM	Low	3 720.00	7.57
		Middle	3 840.00	7.52
		High	3 960.00	7.51
	64QAM	Low	3 720.00	7.54
		Middle	3 840.00	7.52
		High	3 960.00	7.56
256QAM	Low	3 720.00	7.54	
	Middle	3 840.00	7.52	
	High	3 960.00	7.53	
48	QPSK	Low	3 720.00	7.51
		Middle	3 840.00	7.50
		High	3 960.00	7.53
	16QAM	Low	3 720.00	7.58
		Middle	3 840.00	7.55
		High	3 960.00	7.51
	64QAM	Low	3 720.00	7.56
		Middle	3 840.00	7.53
		High	3 960.00	7.55
256QAM	Low	3 720.00	7.54	
	Middle	3 840.00	7.51	
	High	3 960.00	7.56	
49	QPSK	Low	3 720.00	7.53
		Middle	3 840.00	7.50
		High	3 960.00	7.50
	16QAM	Low	3 720.00	7.59
		Middle	3 840.00	7.53
		High	3 960.00	7.54
	64QAM	Low	3 720.00	7.56
		Middle	3 840.00	7.54
		High	3 960.00	7.54
256QAM	Low	3 720.00	7.56	
	Middle	3 840.00	7.54	
	High	3 960.00	7.53	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
50	QPSK	Low	3 720.00	7.53
		Middle	3 840.00	7.50
		High	3 960.00	7.51
	16QAM	Low	3 720.00	7.57
		Middle	3 840.00	7.55
		High	3 960.00	7.54
	64QAM	Low	3 720.00	7.56
		Middle	3 840.00	7.54
		High	3 960.00	7.57
256QAM	Low	3 720.00	7.56	
	Middle	3 840.00	7.53	
	High	3 960.00	7.53	
51	QPSK	Low	3 720.00	7.54
		Middle	3 840.00	7.52
		High	3 960.00	7.54
	16QAM	Low	3 720.00	7.58
		Middle	3 840.00	7.54
		High	3 960.00	7.55
	64QAM	Low	3 720.00	7.57
		Middle	3 840.00	7.54
		High	3 960.00	7.56
256QAM	Low	3 720.00	7.55	
	Middle	3 840.00	7.55	
	High	3 960.00	7.55	
52	QPSK	Low	3 720.00	7.53
		Middle	3 840.00	7.50
		High	3 960.00	7.50
	16QAM	Low	3 720.00	7.57
		Middle	3 840.00	7.52
		High	3 960.00	7.52
	64QAM	Low	3 720.00	7.59
		Middle	3 840.00	7.54
		High	3 960.00	7.53
256QAM	Low	3 720.00	7.54	
	Middle	3 840.00	7.51	
	High	3 960.00	7.52	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
53	QPSK	Low	3 720.00	7.52
		Middle	3 840.00	7.51
		High	3 960.00	7.52
	16QAM	Low	3 720.00	7.58
		Middle	3 840.00	7.54
		High	3 960.00	7.54
	64QAM	Low	3 720.00	7.57
		Middle	3 840.00	7.52
		High	3 960.00	7.56
256QAM	Low	3 720.00	7.55	
	Middle	3 840.00	7.52	
	High	3 960.00	7.55	
54	QPSK	Low	3 720.00	7.53
		Middle	3 840.00	7.50
		High	3 960.00	7.53
	16QAM	Low	3 720.00	7.56
		Middle	3 840.00	7.52
		High	3 960.00	7.54
	64QAM	Low	3 720.00	7.56
		Middle	3 840.00	7.53
		High	3 960.00	7.54
256QAM	Low	3 720.00	7.54	
	Middle	3 840.00	7.53	
	High	3 960.00	7.55	
55	QPSK	Low	3 720.00	7.53
		Middle	3 840.00	7.51
		High	3 960.00	7.53
	16QAM	Low	3 720.00	7.57
		Middle	3 840.00	7.53
		High	3 960.00	7.53
	64QAM	Low	3 720.00	7.57
		Middle	3 840.00	7.53
		High	3 960.00	7.56
256QAM	Low	3 720.00	7.55	
	Middle	3 840.00	7.52	
	High	3 960.00	7.55	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
56	QPSK	Low	3 720.00	7.53
		Middle	3 840.00	7.50
		High	3 960.00	7.53
	16QAM	Low	3 720.00	7.62
		Middle	3 840.00	7.53
		High	3 960.00	7.53
	64QAM	Low	3 720.00	7.56
		Middle	3 840.00	7.55
		High	3 960.00	7.58
256QAM	Low	3 720.00	7.56	
	Middle	3 840.00	7.52	
	High	3 960.00	7.56	
57	QPSK	Low	3 720.00	7.52
		Middle	3 840.00	7.51
		High	3 960.00	7.55
	16QAM	Low	3 720.00	7.60
		Middle	3 840.00	7.55
		High	3 960.00	7.56
	64QAM	Low	3 720.00	7.58
		Middle	3 840.00	7.53
		High	3 960.00	7.58
256QAM	Low	3 720.00	7.57	
	Middle	3 840.00	7.54	
	High	3 960.00	7.58	
58	QPSK	Low	3 720.00	7.54
		Middle	3 840.00	7.50
		High	3 960.00	7.51
	16QAM	Low	3 720.00	7.60
		Middle	3 840.00	7.54
		High	3 960.00	7.54
	64QAM	Low	3 720.00	7.57
		Middle	3 840.00	7.56
		High	3 960.00	7.56
256QAM	Low	3 720.00	7.55	
	Middle	3 840.00	7.52	
	High	3 960.00	7.56	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
59	QPSK	Low	3 720.00	7.54
		Middle	3 840.00	7.50
		High	3 960.00	7.52
	16QAM	Low	3 720.00	7.57
		Middle	3 840.00	7.52
		High	3 960.00	7.51
	64QAM	Low	3 720.00	7.59
		Middle	3 840.00	7.54
		High	3 960.00	7.57
256QAM	Low	3 720.00	7.55	
	Middle	3 840.00	7.53	
	High	3 960.00	7.54	
60	QPSK	Low	3 720.00	7.55
		Middle	3 840.00	7.51
		High	3 960.00	7.55
	16QAM	Low	3 720.00	7.60
		Middle	3 840.00	7.54
		High	3 960.00	7.56
	64QAM	Low	3 720.00	7.59
		Middle	3 840.00	7.54
		High	3 960.00	7.58
256QAM	Low	3 720.00	7.55	
	Middle	3 840.00	7.52	
	High	3 960.00	7.56	
61	QPSK	Low	3 720.00	7.55
		Middle	3 840.00	7.50
		High	3 960.00	7.54
	16QAM	Low	3 720.00	7.59
		Middle	3 840.00	7.55
		High	3 960.00	7.52
	64QAM	Low	3 720.00	7.59
		Middle	3 840.00	7.55
		High	3 960.00	7.56
256QAM	Low	3 720.00	7.57	
	Middle	3 840.00	7.51	
	High	3 960.00	7.55	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
62	QPSK	Low	3 720.00	7.55
		Middle	3 840.00	7.51
		High	3 960.00	7.55
	16QAM	Low	3 720.00	7.61
		Middle	3 840.00	7.53
		High	3 960.00	7.53
	64QAM	Low	3 720.00	7.58
		Middle	3 840.00	7.54
		High	3 960.00	7.56
256QAM	Low	3 720.00	7.53	
	Middle	3 840.00	7.52	
	High	3 960.00	7.56	
63	QPSK	Low	3 720.00	7.55
		Middle	3 840.00	7.50
		High	3 960.00	7.55
	16QAM	Low	3 720.00	7.60
		Middle	3 840.00	7.54
		High	3 960.00	7.56
	64QAM	Low	3 720.00	7.61
		Middle	3 840.00	7.53
		High	3 960.00	7.58
256QAM	Low	3 720.00	7.58	
	Middle	3 840.00	7.53	
	High	3 960.00	7.54	

## (64 Port) 5G NR n77 80 MHz [1 Carrier]

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	3 740.00	7.57
		Middle	3 840.00	7.44
		High	3 940.00	7.52
	16QAM	Low	3 740.00	7.58
		Middle	3 840.00	7.45
		High	3 940.00	7.48
	64QAM	Low	3 740.00	7.67
		Middle	3 840.00	7.51
		High	3 940.00	7.47
	256QAM	Low	3 740.00	7.67
		Middle	3 840.00	7.50
		High	3 940.00	7.48
1	QPSK	Low	3 740.00	7.55
		Middle	3 840.00	7.44
		High	3 940.00	7.52
	16QAM	Low	3 740.00	7.52
		Middle	3 840.00	7.47
		High	3 940.00	7.51
	64QAM	Low	3 740.00	7.61
		Middle	3 840.00	7.48
		High	3 940.00	7.49
	256QAM	Low	3 740.00	7.58
		Middle	3 840.00	7.50
		High	3 940.00	7.47

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
2	QPSK	Low	3 740.00	7.63
		Middle	3 840.00	7.46
		High	3 940.00	7.54
	16QAM	Low	3 740.00	7.59
		Middle	3 840.00	7.47
		High	3 940.00	7.56
	64QAM	Low	3 740.00	7.69
		Middle	3 840.00	7.51
		High	3 940.00	7.56
256QAM	Low	3 740.00	7.66	
	Middle	3 840.00	7.51	
	High	3 940.00	7.56	
3	QPSK	Low	3 740.00	7.56
		Middle	3 840.00	7.46
		High	3 940.00	7.52
	16QAM	Low	3 740.00	7.53
		Middle	3 840.00	7.47
		High	3 940.00	7.56
	64QAM	Low	3 740.00	7.64
		Middle	3 840.00	7.53
		High	3 940.00	7.55
256QAM	Low	3 740.00	7.65	
	Middle	3 840.00	7.52	
	High	3 940.00	7.50	
4	QPSK	Low	3 740.00	7.60
		Middle	3 840.00	7.45
		High	3 940.00	7.55
	16QAM	Low	3 740.00	7.57
		Middle	3 840.00	7.48
		High	3 940.00	7.51
	64QAM	Low	3 740.00	7.67
		Middle	3 840.00	7.53
		High	3 940.00	7.56
256QAM	Low	3 740.00	7.67	
	Middle	3 840.00	7.52	
	High	3 940.00	7.58	



Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
5	QPSK	Low	3 740.00	7.58
		Middle	3 840.00	7.47
		High	3 940.00	7.56
	16QAM	Low	3 740.00	7.59
		Middle	3 840.00	7.47
		High	3 940.00	7.57
	64QAM	Low	3 740.00	7.65
		Middle	3 840.00	7.51
		High	3 940.00	7.58
256QAM	Low	3 740.00	7.66	
	Middle	3 840.00	7.53	
	High	3 940.00	7.59	
6	QPSK	Low	3 740.00	7.58
		Middle	3 840.00	7.47
		High	3 940.00	7.57
	16QAM	Low	3 740.00	7.58
		Middle	3 840.00	7.47
		High	3 940.00	7.54
	64QAM	Low	3 740.00	7.66
		Middle	3 840.00	7.51
		High	3 940.00	7.57
256QAM	Low	3 740.00	7.67	
	Middle	3 840.00	7.50	
	High	3 940.00	7.57	
7	QPSK	Low	3 740.00	7.58
		Middle	3 840.00	7.49
		High	3 940.00	7.58
	16QAM	Low	3 740.00	7.59
		Middle	3 840.00	7.48
		High	3 940.00	7.53
	64QAM	Low	3 740.00	7.68
		Middle	3 840.00	7.52
		High	3 940.00	7.59
256QAM	Low	3 740.00	7.65	
	Middle	3 840.00	7.49	
	High	3 940.00	7.55	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
8	QPSK	Low	3 740.00	7.60
		Middle	3 840.00	7.47
		High	3 940.00	7.57
	16QAM	Low	3 740.00	7.58
		Middle	3 840.00	7.48
		High	3 940.00	7.54
	64QAM	Low	3 740.00	7.67
		Middle	3 840.00	7.52
		High	3 940.00	7.56
256QAM	Low	3 740.00	7.65	
	Middle	3 840.00	7.53	
	High	3 940.00	7.56	
9	QPSK	Low	3 740.00	7.60
		Middle	3 840.00	7.47
		High	3 940.00	7.60
	16QAM	Low	3 740.00	7.59
		Middle	3 840.00	7.46
		High	3 940.00	7.53
	64QAM	Low	3 740.00	7.69
		Middle	3 840.00	7.52
		High	3 940.00	7.62
256QAM	Low	3 740.00	7.65	
	Middle	3 840.00	7.53	
	High	3 940.00	7.62	
10	QPSK	Low	3 740.00	7.61
		Middle	3 840.00	7.47
		High	3 940.00	7.57
	16QAM	Low	3 740.00	7.59
		Middle	3 840.00	7.50
		High	3 940.00	7.55
	64QAM	Low	3 740.00	7.68
		Middle	3 840.00	7.53
		High	3 940.00	7.58
256QAM	Low	3 740.00	7.71	
	Middle	3 840.00	7.53	
	High	3 940.00	7.62	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
11	QPSK	Low	3 740.00	7.62
		Middle	3 840.00	7.48
		High	3 940.00	7.60
	16QAM	Low	3 740.00	7.60
		Middle	3 840.00	7.49
		High	3 940.00	7.54
	64QAM	Low	3 740.00	7.68
		Middle	3 840.00	7.53
		High	3 940.00	7.64
256QAM	Low	3 740.00	7.65	
	Middle	3 840.00	7.51	
	High	3 940.00	7.63	
12	QPSK	Low	3 740.00	7.60
		Middle	3 840.00	7.49
		High	3 940.00	7.61
	16QAM	Low	3 740.00	7.60
		Middle	3 840.00	7.48
		High	3 940.00	7.53
	64QAM	Low	3 740.00	7.68
		Middle	3 840.00	7.53
		High	3 940.00	7.59
256QAM	Low	3 740.00	7.68	
	Middle	3 840.00	7.51	
	High	3 940.00	7.59	
13	QPSK	Low	3 740.00	7.61
		Middle	3 840.00	7.46
		High	3 940.00	7.59
	16QAM	Low	3 740.00	7.60
		Middle	3 840.00	7.50
		High	3 940.00	7.56
	64QAM	Low	3 740.00	7.68
		Middle	3 840.00	7.52
		High	3 940.00	7.64
256QAM	Low	3 740.00	7.68	
	Middle	3 840.00	7.53	
	High	3 940.00	7.59	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
14	QPSK	Low	3 740.00	7.62
		Middle	3 840.00	7.49
		High	3 940.00	7.59
	16QAM	Low	3 740.00	7.59
		Middle	3 840.00	7.48
		High	3 940.00	7.56
	64QAM	Low	3 740.00	7.68
		Middle	3 840.00	7.52
		High	3 940.00	7.60
256QAM	Low	3 740.00	7.67	
	Middle	3 840.00	7.51	
	High	3 940.00	7.63	
15	QPSK	Low	3 740.00	7.61
		Middle	3 840.00	7.47
		High	3 940.00	7.57
	16QAM	Low	3 740.00	7.59
		Middle	3 840.00	7.47
		High	3 940.00	7.52
	64QAM	Low	3 740.00	7.68
		Middle	3 840.00	7.51
		High	3 940.00	7.61
256QAM	Low	3 740.00	7.67	
	Middle	3 840.00	7.50	
	High	3 940.00	7.60	
16	QPSK	Low	3 740.00	7.64
		Middle	3 840.00	7.48
		High	3 940.00	7.59
	16QAM	Low	3 740.00	7.60
		Middle	3 840.00	7.46
		High	3 940.00	7.56
	64QAM	Low	3 740.00	7.70
		Middle	3 840.00	7.53
		High	3 940.00	7.57
256QAM	Low	3 740.00	7.70	
	Middle	3 840.00	7.53	
	High	3 940.00	7.59	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
17	QPSK	Low	3 740.00	7.64
		Middle	3 840.00	7.47
		High	3 940.00	7.59
	16QAM	Low	3 740.00	7.62
		Middle	3 840.00	7.46
		High	3 940.00	7.58
	64QAM	Low	3 740.00	7.69
		Middle	3 840.00	7.51
		High	3 940.00	7.61
256QAM	Low	3 740.00	7.68	
	Middle	3 840.00	7.51	
	High	3 940.00	7.58	
18	QPSK	Low	3 740.00	7.63
		Middle	3 840.00	7.49
		High	3 940.00	7.62
	16QAM	Low	3 740.00	7.60
		Middle	3 840.00	7.48
		High	3 940.00	7.59
	64QAM	Low	3 740.00	7.70
		Middle	3 840.00	7.52
		High	3 940.00	7.62
256QAM	Low	3 740.00	7.70	
	Middle	3 840.00	7.52	
	High	3 940.00	7.62	
19	QPSK	Low	3 740.00	7.58
		Middle	3 840.00	7.48
		High	3 940.00	7.61
	16QAM	Low	3 740.00	7.59
		Middle	3 840.00	7.45
		High	3 940.00	7.58
	64QAM	Low	3 740.00	7.64
		Middle	3 840.00	7.48
		High	3 940.00	7.63
256QAM	Low	3 740.00	7.71	
	Middle	3 840.00	7.50	
	High	3 940.00	7.48	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
20	QPSK	Low	3 740.00	7.58
		Middle	3 840.00	7.48
		High	3 940.00	7.62
	16QAM	Low	3 740.00	7.57
		Middle	3 840.00	7.44
		High	3 940.00	7.57
	64QAM	Low	3 740.00	7.64
		Middle	3 840.00	7.48
		High	3 940.00	7.61
256QAM	Low	3 740.00	7.68	
	Middle	3 840.00	7.51	
	High	3 940.00	7.51	
21	QPSK	Low	3 740.00	7.65
		Middle	3 840.00	7.48
		High	3 940.00	7.59
	16QAM	Low	3 740.00	7.60
		Middle	3 840.00	7.47
		High	3 940.00	7.58
	64QAM	Low	3 740.00	7.70
		Middle	3 840.00	7.48
		High	3 940.00	7.60
256QAM	Low	3 740.00	7.67	
	Middle	3 840.00	7.50	
	High	3 940.00	7.54	
22	QPSK	Low	3 740.00	7.61
		Middle	3 840.00	7.48
		High	3 940.00	7.63
	16QAM	Low	3 740.00	7.60
		Middle	3 840.00	7.45
		High	3 940.00	7.57
	64QAM	Low	3 740.00	7.66
		Middle	3 840.00	7.48
		High	3 940.00	7.65
256QAM	Low	3 740.00	7.71	
	Middle	3 840.00	7.50	
	High	3 940.00	7.59	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
23	QPSK	Low	3 740.00	7.61
		Middle	3 840.00	7.47
		High	3 940.00	7.61
	16QAM	Low	3 740.00	7.59
		Middle	3 840.00	7.45
		High	3 940.00	7.58
	64QAM	Low	3 740.00	7.67
		Middle	3 840.00	7.47
		High	3 940.00	7.62
256QAM	Low	3 740.00	7.70	
	Middle	3 840.00	7.50	
	High	3 940.00	7.56	
24	QPSK	Low	3 740.00	7.61
		Middle	3 840.00	7.48
		High	3 940.00	7.62
	16QAM	Low	3 740.00	7.59
		Middle	3 840.00	7.47
		High	3 940.00	7.58
	64QAM	Low	3 740.00	7.67
		Middle	3 840.00	7.52
		High	3 940.00	7.62
256QAM	Low	3 740.00	7.69	
	Middle	3 840.00	7.52	
	High	3 940.00	7.60	
25	QPSK	Low	3 740.00	7.61
		Middle	3 840.00	7.48
		High	3 940.00	7.60
	16QAM	Low	3 740.00	7.58
		Middle	3 840.00	7.47
		High	3 940.00	7.58
	64QAM	Low	3 740.00	7.67
		Middle	3 840.00	7.50
		High	3 940.00	7.61
256QAM	Low	3 740.00	7.67	
	Middle	3 840.00	7.52	
	High	3 940.00	7.58	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
26	QPSK	Low	3 740.00	7.62
		Middle	3 840.00	7.48
		High	3 940.00	7.61
	16QAM	Low	3 740.00	7.61
		Middle	3 840.00	7.46
		High	3 940.00	7.59
	64QAM	Low	3 740.00	7.69
		Middle	3 840.00	7.50
		High	3 940.00	7.64
256QAM	Low	3 740.00	7.69	
	Middle	3 840.00	7.52	
	High	3 940.00	7.61	
27	QPSK	Low	3 740.00	7.62
		Middle	3 840.00	7.47
		High	3 940.00	7.63
	16QAM	Low	3 740.00	7.59
		Middle	3 840.00	7.46
		High	3 940.00	7.57
	64QAM	Low	3 740.00	7.68
		Middle	3 840.00	7.52
		High	3 940.00	7.63
256QAM	Low	3 740.00	7.72	
	Middle	3 840.00	7.53	
	High	3 940.00	7.62	
28	QPSK	Low	3 740.00	7.63
		Middle	3 840.00	7.46
		High	3 940.00	7.59
	16QAM	Low	3 740.00	7.59
		Middle	3 840.00	7.45
		High	3 940.00	7.60
	64QAM	Low	3 740.00	7.65
		Middle	3 840.00	7.52
		High	3 940.00	7.62
256QAM	Low	3 740.00	7.69	
	Middle	3 840.00	7.52	
	High	3 940.00	7.61	



Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
29	QPSK	Low	3 740.00	7.61
		Middle	3 840.00	7.47
		High	3 940.00	7.58
	16QAM	Low	3 740.00	7.60
		Middle	3 840.00	7.48
		High	3 940.00	7.56
	64QAM	Low	3 740.00	7.68
		Middle	3 840.00	7.50
		High	3 940.00	7.59
256QAM	Low	3 740.00	7.69	
	Middle	3 840.00	7.53	
	High	3 940.00	7.58	
30	QPSK	Low	3 740.00	7.63
		Middle	3 840.00	7.47
		High	3 940.00	7.64
	16QAM	Low	3 740.00	7.62
		Middle	3 840.00	7.46
		High	3 940.00	7.60
	64QAM	Low	3 740.00	7.69
		Middle	3 840.00	7.53
		High	3 940.00	7.61
256QAM	Low	3 740.00	7.71	
	Middle	3 840.00	7.53	
	High	3 940.00	7.65	
31	QPSK	Low	3 740.00	7.60
		Middle	3 840.00	7.48
		High	3 940.00	7.64
	16QAM	Low	3 740.00	7.61
		Middle	3 840.00	7.48
		High	3 940.00	7.56
	64QAM	Low	3 740.00	7.66
		Middle	3 840.00	7.49
		High	3 940.00	7.61
256QAM	Low	3 740.00	7.71	
	Middle	3 840.00	7.50	
	High	3 940.00	7.62	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
32	QPSK	Low	3 740.00	7.64
		Middle	3 840.00	7.43
		High	3 940.00	7.50
	16QAM	Low	3 740.00	7.61
		Middle	3 840.00	7.46
		High	3 940.00	7.48
	64QAM	Low	3 740.00	7.68
		Middle	3 840.00	7.49
		High	3 940.00	7.50
256QAM	Low	3 740.00	7.71	
	Middle	3 840.00	7.52	
	High	3 940.00	7.63	
33	QPSK	Low	3 740.00	7.57
		Middle	3 840.00	7.49
		High	3 940.00	7.49
	16QAM	Low	3 740.00	7.59
		Middle	3 840.00	7.49
		High	3 940.00	7.54
	64QAM	Low	3 740.00	7.63
		Middle	3 840.00	7.52
		High	3 940.00	7.55
256QAM	Low	3 740.00	7.65	
	Middle	3 840.00	7.53	
	High	3 940.00	7.63	
34	QPSK	Low	3 740.00	7.55
		Middle	3 840.00	7.47
		High	3 940.00	7.48
	16QAM	Low	3 740.00	7.60
		Middle	3 840.00	7.48
		High	3 940.00	7.58
	64QAM	Low	3 740.00	7.63
		Middle	3 840.00	7.54
		High	3 940.00	7.56
256QAM	Low	3 740.00	7.64	
	Middle	3 840.00	7.54	
	High	3 940.00	7.67	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
35	QPSK	Low	3 740.00	7.61
		Middle	3 840.00	7.44
		High	3 940.00	7.50
	16QAM	Low	3 740.00	7.59
		Middle	3 840.00	7.46
		High	3 940.00	7.57
	64QAM	Low	3 740.00	7.69
		Middle	3 840.00	7.50
		High	3 940.00	7.58
256QAM	Low	3 740.00	7.66	
	Middle	3 840.00	7.51	
	High	3 940.00	7.64	
36	QPSK	Low	3 740.00	7.57
		Middle	3 840.00	7.46
		High	3 940.00	7.53
	16QAM	Low	3 740.00	7.59
		Middle	3 840.00	7.48
		High	3 940.00	7.54
	64QAM	Low	3 740.00	7.67
		Middle	3 840.00	7.53
		High	3 940.00	7.59
256QAM	Low	3 740.00	7.64	
	Middle	3 840.00	7.54	
	High	3 940.00	7.63	
37	QPSK	Low	3 740.00	7.60
		Middle	3 840.00	7.46
		High	3 940.00	7.53
	16QAM	Low	3 740.00	7.62
		Middle	3 840.00	7.48
		High	3 940.00	7.55
	64QAM	Low	3 740.00	7.65
		Middle	3 840.00	7.51
		High	3 940.00	7.59
256QAM	Low	3 740.00	7.66	
	Middle	3 840.00	7.52	
	High	3 940.00	7.65	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
38	QPSK	Low	3 740.00	7.60
		Middle	3 840.00	7.46
		High	3 940.00	7.57
	16QAM	Low	3 740.00	7.60
		Middle	3 840.00	7.45
		High	3 940.00	7.57
	64QAM	Low	3 740.00	7.72
		Middle	3 840.00	7.51
		High	3 940.00	7.63
	256QAM	Low	3 740.00	7.72
		Middle	3 840.00	7.53
		High	3 940.00	7.66
39	QPSK	Low	3 740.00	7.61
		Middle	3 840.00	7.47
		High	3 940.00	7.58
	16QAM	Low	3 740.00	7.59
		Middle	3 840.00	7.47
		High	3 940.00	7.60
	64QAM	Low	3 740.00	7.69
		Middle	3 840.00	7.50
		High	3 940.00	7.60
	256QAM	Low	3 740.00	7.67
		Middle	3 840.00	7.53
		High	3 940.00	7.65
40	QPSK	Low	3 740.00	7.66
		Middle	3 840.00	7.49
		High	3 940.00	7.60
	16QAM	Low	3 740.00	7.63
		Middle	3 840.00	7.48
		High	3 940.00	7.58
	64QAM	Low	3 740.00	7.72
		Middle	3 840.00	7.52
		High	3 940.00	7.60
	256QAM	Low	3 740.00	7.73
		Middle	3 840.00	7.52
		High	3 940.00	7.64

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
41	QPSK	Low	3 740.00	7.61
		Middle	3 840.00	7.49
		High	3 940.00	7.58
	16QAM	Low	3 740.00	7.61
		Middle	3 840.00	7.48
		High	3 940.00	7.59
	64QAM	Low	3 740.00	7.70
		Middle	3 840.00	7.52
		High	3 940.00	7.58
256QAM	Low	3 740.00	7.70	
	Middle	3 840.00	7.52	
	High	3 940.00	7.63	
42	QPSK	Low	3 740.00	7.61
		Middle	3 840.00	7.47
		High	3 940.00	7.63
	16QAM	Low	3 740.00	7.59
		Middle	3 840.00	7.49
		High	3 940.00	7.58
	64QAM	Low	3 740.00	7.69
		Middle	3 840.00	7.52
		High	3 940.00	7.62
256QAM	Low	3 740.00	7.68	
	Middle	3 840.00	7.51	
	High	3 940.00	7.66	
43	QPSK	Low	3 740.00	7.64
		Middle	3 840.00	7.48
		High	3 940.00	7.60
	16QAM	Low	3 740.00	7.62
		Middle	3 840.00	7.49
		High	3 940.00	7.58
	64QAM	Low	3 740.00	7.73
		Middle	3 840.00	7.52
		High	3 940.00	7.61
256QAM	Low	3 740.00	7.72	
	Middle	3 840.00	7.52	
	High	3 940.00	7.65	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
44	QPSK	Low	3 740.00	7.62
		Middle	3 840.00	7.46
		High	3 940.00	7.60
	16QAM	Low	3 740.00	7.61
		Middle	3 840.00	7.48
		High	3 940.00	7.57
	64QAM	Low	3 740.00	7.70
		Middle	3 840.00	7.51
		High	3 940.00	7.60
256QAM	Low	3 740.00	7.69	
	Middle	3 840.00	7.51	
	High	3 940.00	7.65	
45	QPSK	Low	3 740.00	7.64
		Middle	3 840.00	7.47
		High	3 940.00	7.60
	16QAM	Low	3 740.00	7.62
		Middle	3 840.00	7.49
		High	3 940.00	7.59
	64QAM	Low	3 740.00	7.71
		Middle	3 840.00	7.53
		High	3 940.00	7.63
256QAM	Low	3 740.00	7.68	
	Middle	3 840.00	7.50	
	High	3 940.00	7.67	
46	QPSK	Low	3 740.00	7.62
		Middle	3 840.00	7.50
		High	3 940.00	7.59
	16QAM	Low	3 740.00	7.61
		Middle	3 840.00	7.49
		High	3 940.00	7.58
	64QAM	Low	3 740.00	7.69
		Middle	3 840.00	7.54
		High	3 940.00	7.61
256QAM	Low	3 740.00	7.70	
	Middle	3 840.00	7.52	
	High	3 940.00	7.64	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
47	QPSK	Low	3 740.00	7.62
		Middle	3 840.00	7.45
		High	3 940.00	7.61
	16QAM	Low	3 740.00	7.62
		Middle	3 840.00	7.45
		High	3 940.00	7.60
	64QAM	Low	3 740.00	7.69
		Middle	3 840.00	7.49
		High	3 940.00	7.62
256QAM	Low	3 740.00	7.67	
	Middle	3 840.00	7.53	
	High	3 940.00	7.64	
48	QPSK	Low	3 740.00	7.63
		Middle	3 840.00	7.45
		High	3 940.00	7.62
	16QAM	Low	3 740.00	7.63
		Middle	3 840.00	7.48
		High	3 940.00	7.61
	64QAM	Low	3 740.00	7.70
		Middle	3 840.00	7.52
		High	3 940.00	7.64
256QAM	Low	3 740.00	7.70	
	Middle	3 840.00	7.53	
	High	3 940.00	7.67	
49	QPSK	Low	3 740.00	7.63
		Middle	3 840.00	7.48
		High	3 940.00	7.61
	16QAM	Low	3 740.00	7.61
		Middle	3 840.00	7.48
		High	3 940.00	7.58
	64QAM	Low	3 740.00	7.71
		Middle	3 840.00	7.53
		High	3 940.00	7.61
256QAM	Low	3 740.00	7.67	
	Middle	3 840.00	7.53	
	High	3 940.00	7.64	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
50	QPSK	Low	3 740.00	7.60
		Middle	3 840.00	7.49
		High	3 940.00	7.62
	16QAM	Low	3 740.00	7.60
		Middle	3 840.00	7.47
		High	3 940.00	7.57
	64QAM	Low	3 740.00	7.70
		Middle	3 840.00	7.54
		High	3 940.00	7.64
256QAM	Low	3 740.00	7.66	
	Middle	3 840.00	7.55	
	High	3 940.00	7.67	
51	QPSK	Low	3 740.00	7.63
		Middle	3 840.00	7.49
		High	3 940.00	7.61
	16QAM	Low	3 740.00	7.63
		Middle	3 840.00	7.49
		High	3 940.00	7.59
	64QAM	Low	3 740.00	7.71
		Middle	3 840.00	7.53
		High	3 940.00	7.62
256QAM	Low	3 740.00	7.71	
	Middle	3 840.00	7.55	
	High	3 940.00	7.63	
52	QPSK	Low	3 740.00	7.64
		Middle	3 840.00	7.49
		High	3 940.00	7.57
	16QAM	Low	3 740.00	7.63
		Middle	3 840.00	7.49
		High	3 940.00	7.57
	64QAM	Low	3 740.00	7.70
		Middle	3 840.00	7.51
		High	3 940.00	7.61
256QAM	Low	3 740.00	7.73	
	Middle	3 840.00	7.53	
	High	3 940.00	7.64	



Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
53	QPSK	Low	3 740.00	7.63
		Middle	3 840.00	7.48
		High	3 940.00	7.61
	16QAM	Low	3 740.00	7.61
		Middle	3 840.00	7.49
		High	3 940.00	7.61
	64QAM	Low	3 740.00	7.70
		Middle	3 840.00	7.52
		High	3 940.00	7.62
256QAM	Low	3 740.00	7.70	
	Middle	3 840.00	7.50	
	High	3 940.00	7.68	
54	QPSK	Low	3 740.00	7.62
		Middle	3 840.00	7.47
		High	3 940.00	7.61
	16QAM	Low	3 740.00	7.59
		Middle	3 840.00	7.48
		High	3 940.00	7.61
	64QAM	Low	3 740.00	7.69
		Middle	3 840.00	7.53
		High	3 940.00	7.64
256QAM	Low	3 740.00	7.69	
	Middle	3 840.00	7.54	
	High	3 940.00	7.64	
55	QPSK	Low	3 740.00	7.64
		Middle	3 840.00	7.49
		High	3 940.00	7.60
	16QAM	Low	3 740.00	7.62
		Middle	3 840.00	7.48
		High	3 940.00	7.61
	64QAM	Low	3 740.00	7.71
		Middle	3 840.00	7.53
		High	3 940.00	7.63
256QAM	Low	3 740.00	7.69	
	Middle	3 840.00	7.54	
	High	3 940.00	7.67	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
56	QPSK	Low	3 740.00	7.64
		Middle	3 840.00	7.47
		High	3 940.00	7.62
	16QAM	Low	3 740.00	7.62
		Middle	3 840.00	7.48
		High	3 940.00	7.60
	64QAM	Low	3 740.00	7.72
		Middle	3 840.00	7.51
		High	3 940.00	7.63
256QAM	Low	3 740.00	7.72	
	Middle	3 840.00	7.50	
	High	3 940.00	7.67	
57	QPSK	Low	3 740.00	7.66
		Middle	3 840.00	7.47
		High	3 940.00	7.61
	16QAM	Low	3 740.00	7.64
		Middle	3 840.00	7.48
		High	3 940.00	7.61
	64QAM	Low	3 740.00	7.72
		Middle	3 840.00	7.50
		High	3 940.00	7.64
256QAM	Low	3 740.00	7.71	
	Middle	3 840.00	7.52	
	High	3 940.00	7.65	
58	QPSK	Low	3 740.00	7.64
		Middle	3 840.00	7.49
		High	3 940.00	7.62
	16QAM	Low	3 740.00	7.63
		Middle	3 840.00	7.47
		High	3 940.00	7.60
	64QAM	Low	3 740.00	7.69
		Middle	3 840.00	7.53
		High	3 940.00	7.60
256QAM	Low	3 740.00	7.68	
	Middle	3 840.00	7.52	
	High	3 940.00	7.65	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
59	QPSK	Low	3 740.00	7.65
		Middle	3 840.00	7.49
		High	3 940.00	7.61
	16QAM	Low	3 740.00	7.63
		Middle	3 840.00	7.47
		High	3 940.00	7.60
	64QAM	Low	3 740.00	7.71
		Middle	3 840.00	7.52
		High	3 940.00	7.62
256QAM	Low	3 740.00	7.74	
	Middle	3 840.00	7.51	
	High	3 940.00	7.65	
60	QPSK	Low	3 740.00	7.62
		Middle	3 840.00	7.48
		High	3 940.00	7.60
	16QAM	Low	3 740.00	7.63
		Middle	3 840.00	7.47
		High	3 940.00	7.60
	64QAM	Low	3 740.00	7.71
		Middle	3 840.00	7.50
		High	3 940.00	7.63
256QAM	Low	3 740.00	7.71	
	Middle	3 840.00	7.50	
	High	3 940.00	7.65	
61	QPSK	Low	3 740.00	7.64
		Middle	3 840.00	7.47
		High	3 940.00	7.60
	16QAM	Low	3 740.00	7.62
		Middle	3 840.00	7.48
		High	3 940.00	7.59
	64QAM	Low	3 740.00	7.71
		Middle	3 840.00	7.51
		High	3 940.00	7.63
256QAM	Low	3 740.00	7.68	
	Middle	3 840.00	7.53	
	High	3 940.00	7.65	

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
62	QPSK	Low	3 740.00	7.64
		Middle	3 840.00	7.48
		High	3 940.00	7.59
	16QAM	Low	3 740.00	7.62
		Middle	3 840.00	7.47
		High	3 940.00	7.60
	64QAM	Low	3 740.00	7.71
		Middle	3 840.00	7.48
		High	3 940.00	7.62
256QAM	Low	3 740.00	7.69	
	Middle	3 840.00	7.52	
	High	3 940.00	7.64	
63	QPSK	Low	3 740.00	7.64
		Middle	3 840.00	7.49
		High	3 940.00	7.60
	16QAM	Low	3 740.00	7.64
		Middle	3 840.00	7.47
		High	3 940.00	7.59
	64QAM	Low	3 740.00	7.72
		Middle	3 840.00	7.52
		High	3 940.00	7.64
256QAM	Low	3 740.00	7.73	
	Middle	3 840.00	7.51	
	High	3 940.00	7.65	

## Tabular data of Contiguous PAPR

## (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier]

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	3 770.00	7.82
	16QAM	Low	3 770.00	7.83
	64QAM	Low	3 770.00	7.78
	256QAM	Low	3 770.00	7.86
1	QPSK	Low	3 770.00	7.83
	16QAM	Low	3 770.00	7.78
	64QAM	Low	3 770.00	7.77
	256QAM	Low	3 770.00	7.84
2	QPSK	Low	3 770.00	7.84
	16QAM	Low	3 770.00	7.78
	64QAM	Low	3 770.00	7.77
	256QAM	Low	3 770.00	7.85
3	QPSK	Low	3 770.00	7.82
	16QAM	Low	3 770.00	7.77
	64QAM	Low	3 770.00	7.78
	256QAM	Low	3 770.00	7.80
4	QPSK	Low	3 770.00	7.82
	16QAM	Low	3 770.00	7.78
	64QAM	Low	3 770.00	7.79
	256QAM	Low	3 770.00	7.82
5	QPSK	Low	3 770.00	7.84
	16QAM	Low	3 770.00	7.82
	64QAM	Low	3 770.00	7.80
	256QAM	Low	3 770.00	7.84
6	QPSK	Low	3 770.00	7.81
	16QAM	Low	3 770.00	7.80
	64QAM	Low	3 770.00	7.77
	256QAM	Low	3 770.00	7.81
7	QPSK	Low	3 770.00	7.84
	16QAM	Low	3 770.00	7.80
	64QAM	Low	3 770.00	7.78
	256QAM	Low	3 770.00	7.82

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
8	QPSK	Low	3 770.00	7.84
	16QAM	Low	3 770.00	7.78
	64QAM	Low	3 770.00	7.76
	256QAM	Low	3 770.00	7.81
9	QPSK	Low	3 770.00	7.83
	16QAM	Low	3 770.00	7.80
	64QAM	Low	3 770.00	7.80
	256QAM	Low	3 770.00	7.82
10	QPSK	Low	3 770.00	7.85
	16QAM	Low	3 770.00	7.78
	64QAM	Low	3 770.00	7.81
	256QAM	Low	3 770.00	7.83
11	QPSK	Low	3 770.00	7.85
	16QAM	Low	3 770.00	7.79
	64QAM	Low	3 770.00	7.78
	256QAM	Low	3 770.00	7.84
12	QPSK	Low	3 770.00	7.83
	16QAM	Low	3 770.00	7.79
	64QAM	Low	3 770.00	7.84
	256QAM	Low	3 770.00	7.84
13	QPSK	Low	3 770.00	7.84
	16QAM	Low	3 770.00	7.80
	64QAM	Low	3 770.00	7.81
	256QAM	Low	3 770.00	7.82
14	QPSK	Low	3 770.00	7.83
	16QAM	Low	3 770.00	7.79
	64QAM	Low	3 770.00	7.81
	256QAM	Low	3 770.00	7.82
15	QPSK	Low	3 770.00	7.81
	16QAM	Low	3 770.00	7.79
	64QAM	Low	3 770.00	7.84
	256QAM	Low	3 770.00	7.82

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
16	QPSK	Low	3 770.00	7.84
	16QAM	Low	3 770.00	7.80
	64QAM	Low	3 770.00	7.80
	256QAM	Low	3 770.00	7.84
17	QPSK	Low	3 770.00	7.84
	16QAM	Low	3 770.00	7.80
	64QAM	Low	3 770.00	7.79
	256QAM	Low	3 770.00	7.83
18	QPSK	Low	3 770.00	7.87
	16QAM	Low	3 770.00	7.80
	64QAM	Low	3 770.00	7.81
	256QAM	Low	3 770.00	7.85
19	QPSK	Low	3 770.00	7.84
	16QAM	Low	3 770.00	7.81
	64QAM	Low	3 770.00	7.83
	256QAM	Low	3 770.00	7.84
20	QPSK	Low	3 770.00	7.84
	16QAM	Low	3 770.00	7.79
	64QAM	Low	3 770.00	7.82
	256QAM	Low	3 770.00	7.82
21	QPSK	Low	3 770.00	7.83
	16QAM	Low	3 770.00	7.79
	64QAM	Low	3 770.00	7.81
	256QAM	Low	3 770.00	7.87
22	QPSK	Low	3 770.00	7.81
	16QAM	Low	3 770.00	7.81
	64QAM	Low	3 770.00	7.80
	256QAM	Low	3 770.00	7.85
23	QPSK	Low	3 770.00	7.81
	16QAM	Low	3 770.00	7.78
	64QAM	Low	3 770.00	7.80
	256QAM	Low	3 770.00	7.82

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
24	QPSK	Low	3 770.00	7.85
	16QAM	Low	3 770.00	7.79
	64QAM	Low	3 770.00	7.81
	256QAM	Low	3 770.00	7.88
25	QPSK	Low	3 770.00	7.83
	16QAM	Low	3 770.00	7.81
	64QAM	Low	3 770.00	7.80
	256QAM	Low	3 770.00	7.84
26	QPSK	Low	3 770.00	7.85
	16QAM	Low	3 770.00	7.79
	64QAM	Low	3 770.00	7.85
	256QAM	Low	3 770.00	7.83
27	QPSK	Low	3 770.00	7.84
	16QAM	Low	3 770.00	7.82
	64QAM	Low	3 770.00	7.83
	256QAM	Low	3 770.00	7.86
28	QPSK	Low	3 770.00	7.85
	16QAM	Low	3 770.00	7.79
	64QAM	Low	3 770.00	7.82
	256QAM	Low	3 770.00	7.86
29	QPSK	Low	3 770.00	7.83
	16QAM	Low	3 770.00	7.80
	64QAM	Low	3 770.00	7.80
	256QAM	Low	3 770.00	7.86
30	QPSK	Low	3 770.00	7.81
	16QAM	Low	3 770.00	7.80
	64QAM	Low	3 770.00	7.80
	256QAM	Low	3 770.00	7.86
31	QPSK	Low	3 770.00	7.84
	16QAM	Low	3 770.00	7.79
	64QAM	Low	3 770.00	7.81
	256QAM	Low	3 770.00	7.83



Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
32	QPSK	Low	3 770.00	7.84
	16QAM	Low	3 770.00	7.81
	64QAM	Low	3 770.00	7.82
	256QAM	Low	3 770.00	7.83
33	QPSK	Low	3 770.00	7.78
	16QAM	Low	3 770.00	7.77
	64QAM	Low	3 770.00	7.81
	256QAM	Low	3 770.00	7.79
34	QPSK	Low	3 770.00	7.82
	16QAM	Low	3 770.00	7.78
	64QAM	Low	3 770.00	7.84
	256QAM	Low	3 770.00	7.80
35	QPSK	Low	3 770.00	7.81
	16QAM	Low	3 770.00	7.79
	64QAM	Low	3 770.00	7.79
	256QAM	Low	3 770.00	7.80
36	QPSK	Low	3 770.00	7.81
	16QAM	Low	3 770.00	7.79
	64QAM	Low	3 770.00	7.83
	256QAM	Low	3 770.00	7.80
37	QPSK	Low	3 770.00	7.81
	16QAM	Low	3 770.00	7.79
	64QAM	Low	3 770.00	7.81
	256QAM	Low	3 770.00	7.80
38	QPSK	Low	3 770.00	7.83
	16QAM	Low	3 770.00	7.80
	64QAM	Low	3 770.00	7.83
	256QAM	Low	3 770.00	7.80
39	QPSK	Low	3 770.00	7.81
	16QAM	Low	3 770.00	7.79
	64QAM	Low	3 770.00	7.83
	256QAM	Low	3 770.00	7.81

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
40	QPSK	Low	3 770.00	7.84
	16QAM	Low	3 770.00	7.82
	64QAM	Low	3 770.00	7.86
	256QAM	Low	3 770.00	7.85
41	QPSK	Low	3 770.00	7.84
	16QAM	Low	3 770.00	7.81
	64QAM	Low	3 770.00	7.85
	256QAM	Low	3 770.00	7.83
42	QPSK	Low	3 770.00	7.81
	16QAM	Low	3 770.00	7.79
	64QAM	Low	3 770.00	7.80
	256QAM	Low	3 770.00	7.80
43	QPSK	Low	3 770.00	7.82
	16QAM	Low	3 770.00	7.82
	64QAM	Low	3 770.00	7.84
	256QAM	Low	3 770.00	7.83
44	QPSK	Low	3 770.00	7.82
	16QAM	Low	3 770.00	7.81
	64QAM	Low	3 770.00	7.83
	256QAM	Low	3 770.00	7.83
45	QPSK	Low	3 770.00	7.82
	16QAM	Low	3 770.00	7.82
	64QAM	Low	3 770.00	7.81
	256QAM	Low	3 770.00	7.85
46	QPSK	Low	3 770.00	7.84
	16QAM	Low	3 770.00	7.80
	64QAM	Low	3 770.00	7.84
	256QAM	Low	3 770.00	7.84
47	QPSK	Low	3 770.00	7.82
	16QAM	Low	3 770.00	7.82
	64QAM	Low	3 770.00	7.84
	256QAM	Low	3 770.00	7.81

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
48	QPSK	Low	3 770.00	7.82
	16QAM	Low	3 770.00	7.79
	64QAM	Low	3 770.00	7.83
	256QAM	Low	3 770.00	7.82
49	QPSK	Low	3 770.00	7.82
	16QAM	Low	3 770.00	7.79
	64QAM	Low	3 770.00	7.83
	256QAM	Low	3 770.00	7.80
50	QPSK	Low	3 770.00	7.79
	16QAM	Low	3 770.00	7.79
	64QAM	Low	3 770.00	7.82
	256QAM	Low	3 770.00	7.81
51	QPSK	Low	3 770.00	7.84
	16QAM	Low	3 770.00	7.82
	64QAM	Low	3 770.00	7.84
	256QAM	Low	3 770.00	7.83
52	QPSK	Low	3 770.00	7.81
	16QAM	Low	3 770.00	7.81
	64QAM	Low	3 770.00	7.83
	256QAM	Low	3 770.00	7.83
53	QPSK	Low	3 770.00	7.83
	16QAM	Low	3 770.00	7.81
	64QAM	Low	3 770.00	7.81
	256QAM	Low	3 770.00	7.82
54	QPSK	Low	3 770.00	7.81
	16QAM	Low	3 770.00	7.79
	64QAM	Low	3 770.00	7.79
	256QAM	Low	3 770.00	7.81
55	QPSK	Low	3 770.00	7.81
	16QAM	Low	3 770.00	7.79
	64QAM	Low	3 770.00	7.81
	256QAM	Low	3 770.00	7.81

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
56	QPSK	Low	3 770.00	7.82
	16QAM	Low	3 770.00	7.80
	64QAM	Low	3 770.00	7.82
	256QAM	Low	3 770.00	7.82
57	QPSK	Low	3 770.00	7.84
	16QAM	Low	3 770.00	7.82
	64QAM	Low	3 770.00	7.86
	256QAM	Low	3 770.00	7.85
58	QPSK	Low	3 770.00	7.83
	16QAM	Low	3 770.00	7.81
	64QAM	Low	3 770.00	7.81
	256QAM	Low	3 770.00	7.81
59	QPSK	Low	3 770.00	7.81
	16QAM	Low	3 770.00	7.82
	64QAM	Low	3 770.00	7.86
	256QAM	Low	3 770.00	7.84
60	QPSK	Low	3 770.00	7.82
	16QAM	Low	3 770.00	7.81
	64QAM	Low	3 770.00	7.83
	256QAM	Low	3 770.00	7.83
61	QPSK	Low	3 770.00	7.82
	16QAM	Low	3 770.00	7.80
	64QAM	Low	3 770.00	7.85
	256QAM	Low	3 770.00	7.84
62	QPSK	Low	3 770.00	7.84
	16QAM	Low	3 770.00	7.82
	64QAM	Low	3 770.00	7.83
	256QAM	Low	3 770.00	7.82
63	QPSK	Low	3 770.00	7.83
	16QAM	Low	3 770.00	7.82
	64QAM	Low	3 770.00	7.84
	256QAM	Low	3 770.00	7.82

## (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] (Asymmetric)

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	3 770.00	7.74
	16QAM	Low	3 770.00	7.77
	64QAM	Low	3 770.00	7.77
	256QAM	Low	3 770.00	7.79
1	QPSK	Low	3 770.00	7.75
	16QAM	Low	3 770.00	7.69
	64QAM	Low	3 770.00	7.77
	256QAM	Low	3 770.00	7.77
2	QPSK	Low	3 770.00	7.72
	16QAM	Low	3 770.00	7.73
	64QAM	Low	3 770.00	7.77
	256QAM	Low	3 770.00	7.76
3	QPSK	Low	3 770.00	7.72
	16QAM	Low	3 770.00	7.72
	64QAM	Low	3 770.00	7.77
	256QAM	Low	3 770.00	7.78
4	QPSK	Low	3 770.00	7.74
	16QAM	Low	3 770.00	7.74
	64QAM	Low	3 770.00	7.78
	256QAM	Low	3 770.00	7.77
5	QPSK	Low	3 770.00	7.75
	16QAM	Low	3 770.00	7.75
	64QAM	Low	3 770.00	7.78
	256QAM	Low	3 770.00	7.77
6	QPSK	Low	3 770.00	7.73
	16QAM	Low	3 770.00	7.75
	64QAM	Low	3 770.00	7.76
	256QAM	Low	3 770.00	7.77
7	QPSK	Low	3 770.00	7.76
	16QAM	Low	3 770.00	7.76
	64QAM	Low	3 770.00	7.78
	256QAM	Low	3 770.00	7.78

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
8	QPSK	Low	3 770.00	7.74
	16QAM	Low	3 770.00	7.75
	64QAM	Low	3 770.00	7.77
	256QAM	Low	3 770.00	7.78
9	QPSK	Low	3 770.00	7.76
	16QAM	Low	3 770.00	7.76
	64QAM	Low	3 770.00	7.75
	256QAM	Low	3 770.00	7.78
10	QPSK	Low	3 770.00	7.75
	16QAM	Low	3 770.00	7.78
	64QAM	Low	3 770.00	7.77
	256QAM	Low	3 770.00	7.79
11	QPSK	Low	3 770.00	7.64
	16QAM	Low	3 770.00	7.73
	64QAM	Low	3 770.00	7.78
	256QAM	Low	3 770.00	7.81
12	QPSK	Low	3 770.00	7.73
	16QAM	Low	3 770.00	7.74
	64QAM	Low	3 770.00	7.77
	256QAM	Low	3 770.00	7.81
13	QPSK	Low	3 770.00	7.76
	16QAM	Low	3 770.00	7.76
	64QAM	Low	3 770.00	7.78
	256QAM	Low	3 770.00	7.80
14	QPSK	Low	3 770.00	7.74
	16QAM	Low	3 770.00	7.75
	64QAM	Low	3 770.00	7.76
	256QAM	Low	3 770.00	7.80
15	QPSK	Low	3 770.00	7.73
	16QAM	Low	3 770.00	7.73
	64QAM	Low	3 770.00	7.78
	256QAM	Low	3 770.00	7.78

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
16	QPSK	Low	3 770.00	7.71
	16QAM	Low	3 770.00	7.76
	64QAM	Low	3 770.00	7.77
	256QAM	Low	3 770.00	7.82
17	QPSK	Low	3 770.00	7.67
	16QAM	Low	3 770.00	7.77
	64QAM	Low	3 770.00	7.77
	256QAM	Low	3 770.00	7.81
18	QPSK	Low	3 770.00	7.70
	16QAM	Low	3 770.00	7.74
	64QAM	Low	3 770.00	7.79
	256QAM	Low	3 770.00	7.81
19	QPSK	Low	3 770.00	7.75
	16QAM	Low	3 770.00	7.80
	64QAM	Low	3 770.00	7.79
	256QAM	Low	3 770.00	7.76
20	QPSK	Low	3 770.00	7.69
	16QAM	Low	3 770.00	7.78
	64QAM	Low	3 770.00	7.76
	256QAM	Low	3 770.00	7.77
21	QPSK	Low	3 770.00	7.77
	16QAM	Low	3 770.00	7.77
	64QAM	Low	3 770.00	7.77
	256QAM	Low	3 770.00	7.80
22	QPSK	Low	3 770.00	7.77
	16QAM	Low	3 770.00	7.77
	64QAM	Low	3 770.00	7.77
	256QAM	Low	3 770.00	7.81
23	QPSK	Low	3 770.00	7.76
	16QAM	Low	3 770.00	7.77
	64QAM	Low	3 770.00	7.76
	256QAM	Low	3 770.00	7.77

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
24	QPSK	Low	3 770.00	7.74
	16QAM	Low	3 770.00	7.76
	64QAM	Low	3 770.00	7.80
	256QAM	Low	3 770.00	7.80
25	QPSK	Low	3 770.00	7.77
	16QAM	Low	3 770.00	7.77
	64QAM	Low	3 770.00	7.79
	256QAM	Low	3 770.00	7.81
26	QPSK	Low	3 770.00	7.78
	16QAM	Low	3 770.00	7.77
	64QAM	Low	3 770.00	7.76
	256QAM	Low	3 770.00	7.79
27	QPSK	Low	3 770.00	7.77
	16QAM	Low	3 770.00	7.77
	64QAM	Low	3 770.00	7.78
	256QAM	Low	3 770.00	7.80
28	QPSK	Low	3 770.00	7.77
	16QAM	Low	3 770.00	7.77
	64QAM	Low	3 770.00	7.77
	256QAM	Low	3 770.00	7.79
29	QPSK	Low	3 770.00	7.79
	16QAM	Low	3 770.00	7.77
	64QAM	Low	3 770.00	7.77
	256QAM	Low	3 770.00	7.80
30	QPSK	Low	3 770.00	7.77
	16QAM	Low	3 770.00	7.78
	64QAM	Low	3 770.00	7.77
	256QAM	Low	3 770.00	7.82
31	QPSK	Low	3 770.00	7.76
	16QAM	Low	3 770.00	7.77
	64QAM	Low	3 770.00	7.77
	256QAM	Low	3 770.00	7.80



Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
32	QPSK	Low	3 770.00	7.79
	16QAM	Low	3 770.00	7.83
	64QAM	Low	3 770.00	7.84
	256QAM	Low	3 770.00	7.82
33	QPSK	Low	3 770.00	8.30
	16QAM	Low	3 770.00	7.77
	64QAM	Low	3 770.00	7.77
	256QAM	Low	3 770.00	7.80
34	QPSK	Low	3 770.00	7.73
	16QAM	Low	3 770.00	7.80
	64QAM	Low	3 770.00	7.80
	256QAM	Low	3 770.00	7.79
35	QPSK	Low	3 770.00	7.79
	16QAM	Low	3 770.00	7.77
	64QAM	Low	3 770.00	7.79
	256QAM	Low	3 770.00	7.80
36	QPSK	Low	3 770.00	7.78
	16QAM	Low	3 770.00	7.79
	64QAM	Low	3 770.00	7.81
	256QAM	Low	3 770.00	7.81
37	QPSK	Low	3 770.00	7.79
	16QAM	Low	3 770.00	7.79
	64QAM	Low	3 770.00	7.82
	256QAM	Low	3 770.00	7.83
38	QPSK	Low	3 770.00	7.81
	16QAM	Low	3 770.00	7.80
	64QAM	Low	3 770.00	7.83
	256QAM	Low	3 770.00	7.82
39	QPSK	Low	3 770.00	7.80
	16QAM	Low	3 770.00	7.79
	64QAM	Low	3 770.00	7.81
	256QAM	Low	3 770.00	7.80

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
40	QPSK	Low	3 770.00	7.84
	16QAM	Low	3 770.00	7.83
	64QAM	Low	3 770.00	7.87
	256QAM	Low	3 770.00	7.84
41	QPSK	Low	3 770.00	7.82
	16QAM	Low	3 770.00	7.82
	64QAM	Low	3 770.00	7.87
	256QAM	Low	3 770.00	7.85
42	QPSK	Low	3 770.00	7.79
	16QAM	Low	3 770.00	7.79
	64QAM	Low	3 770.00	7.81
	256QAM	Low	3 770.00	7.82
43	QPSK	Low	3 770.00	7.81
	16QAM	Low	3 770.00	7.82
	64QAM	Low	3 770.00	7.85
	256QAM	Low	3 770.00	7.84
44	QPSK	Low	3 770.00	7.82
	16QAM	Low	3 770.00	7.80
	64QAM	Low	3 770.00	7.85
	256QAM	Low	3 770.00	7.81
45	QPSK	Low	3 770.00	7.82
	16QAM	Low	3 770.00	7.81
	64QAM	Low	3 770.00	7.86
	256QAM	Low	3 770.00	7.85
46	QPSK	Low	3 770.00	7.82
	16QAM	Low	3 770.00	7.81
	64QAM	Low	3 770.00	7.85
	256QAM	Low	3 770.00	7.85
47	QPSK	Low	3 770.00	7.82
	16QAM	Low	3 770.00	7.80
	64QAM	Low	3 770.00	7.84
	256QAM	Low	3 770.00	7.82

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
48	QPSK	Low	3 770.00	7.80
	16QAM	Low	3 770.00	7.80
	64QAM	Low	3 770.00	7.84
	256QAM	Low	3 770.00	7.82
49	QPSK	Low	3 770.00	7.81
	16QAM	Low	3 770.00	7.80
	64QAM	Low	3 770.00	7.83
	256QAM	Low	3 770.00	7.81
50	QPSK	Low	3 770.00	7.80
	16QAM	Low	3 770.00	7.78
	64QAM	Low	3 770.00	7.81
	256QAM	Low	3 770.00	7.81
51	QPSK	Low	3 770.00	7.82
	16QAM	Low	3 770.00	7.81
	64QAM	Low	3 770.00	7.84
	256QAM	Low	3 770.00	7.81
52	QPSK	Low	3 770.00	7.80
	16QAM	Low	3 770.00	7.81
	64QAM	Low	3 770.00	7.86
	256QAM	Low	3 770.00	7.83
53	QPSK	Low	3 770.00	7.81
	16QAM	Low	3 770.00	7.80
	64QAM	Low	3 770.00	7.81
	256QAM	Low	3 770.00	7.83
54	QPSK	Low	3 770.00	7.79
	16QAM	Low	3 770.00	7.78
	64QAM	Low	3 770.00	7.82
	256QAM	Low	3 770.00	7.79
55	QPSK	Low	3 770.00	7.81
	16QAM	Low	3 770.00	7.80
	64QAM	Low	3 770.00	7.83
	256QAM	Low	3 770.00	7.82

Ant.	Modulation	Channel	Frequency (MHz)	0.1 % PAPR (dB)
56	QPSK	Low	3 770.00	7.83
	16QAM	Low	3 770.00	7.81
	64QAM	Low	3 770.00	7.84
	256QAM	Low	3 770.00	7.83
57	QPSK	Low	3 770.00	7.85
	16QAM	Low	3 770.00	7.83
	64QAM	Low	3 770.00	7.84
	256QAM	Low	3 770.00	7.85
58	QPSK	Low	3 770.00	7.80
	16QAM	Low	3 770.00	7.80
	64QAM	Low	3 770.00	7.82
	256QAM	Low	3 770.00	7.83
59	QPSK	Low	3 770.00	7.84
	16QAM	Low	3 770.00	7.83
	64QAM	Low	3 770.00	7.84
	256QAM	Low	3 770.00	7.83
60	QPSK	Low	3 770.00	7.83
	16QAM	Low	3 770.00	7.81
	64QAM	Low	3 770.00	7.82
	256QAM	Low	3 770.00	7.83
61	QPSK	Low	3 770.00	7.84
	16QAM	Low	3 770.00	7.82
	64QAM	Low	3 770.00	7.85
	256QAM	Low	3 770.00	7.84
62	QPSK	Low	3 770.00	7.81
	16QAM	Low	3 770.00	7.79
	64QAM	Low	3 770.00	7.83
	256QAM	Low	3 770.00	7.82
63	QPSK	Low	3 770.00	7.85
	16QAM	Low	3 770.00	7.84
	64QAM	Low	3 770.00	7.84
	256QAM	Low	3 770.00	7.84

**(64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 100 MHz 1 Carrier [2 Carrier] (Asymmetric)**

Ant.	Modulation	Channel	1 Carrier		2 Carrier	
			Frequency (MHz)	0.1 % PAPR (dB)	Frequency (MHz)	0.1 % PAPR (dB)
0	QPSK	Low	3 750.00	7.82	3 850.00	8.35
	16QAM	Low	3 750.00	7.82	3 850.00	8.39
	64QAM	Low	3 750.00	7.85	3 850.00	8.31
	256QAM	Low	3 750.00	7.82	3 850.00	8.36
1	QPSK	Low	3 750.00	7.79	3 850.00	8.35
	16QAM	Low	3 750.00	7.79	3 850.00	8.40
	64QAM	Low	3 750.00	7.82	3 850.00	8.33
	256QAM	Low	3 750.00	7.84	3 850.00	8.36
2	QPSK	Low	3 750.00	7.84	3 850.00	8.35
	16QAM	Low	3 750.00	7.85	3 850.00	8.39
	64QAM	Low	3 750.00	7.86	3 850.00	8.35
	256QAM	Low	3 750.00	7.87	3 850.00	8.37
3	QPSK	Low	3 750.00	7.83	3 850.00	8.35
	16QAM	Low	3 750.00	7.83	3 850.00	8.40
	64QAM	Low	3 750.00	7.87	3 850.00	8.34
	256QAM	Low	3 750.00	7.85	3 850.00	8.35
4	QPSK	Low	3 750.00	7.82	3 850.00	8.36
	16QAM	Low	3 750.00	7.81	3 850.00	8.44
	64QAM	Low	3 750.00	7.84	3 850.00	8.35
	256QAM	Low	3 750.00	7.84	3 850.00	8.38
5	QPSK	Low	3 750.00	7.85	3 850.00	8.37
	16QAM	Low	3 750.00	7.83	3 850.00	8.39
	64QAM	Low	3 750.00	7.85	3 850.00	8.35
	256QAM	Low	3 750.00	7.86	3 850.00	8.36
6	QPSK	Low	3 750.00	7.85	3 850.00	8.37
	16QAM	Low	3 750.00	7.82	3 850.00	8.36
	64QAM	Low	3 750.00	7.85	3 850.00	8.35
	256QAM	Low	3 750.00	7.86	3 850.00	8.37
7	QPSK	Low	3 750.00	7.85	3 850.00	8.36
	16QAM	Low	3 750.00	7.83	3 850.00	8.42
	64QAM	Low	3 750.00	7.84	3 850.00	8.33
	256QAM	Low	3 750.00	7.88	3 850.00	8.36

Ant.	Modulation	Channel	1 Carrier		2 Carrier	
			Frequency (MHz)	0.1 % PAPR (dB)	Frequency (MHz)	0.1 % PAPR (dB)
8	QPSK	Low	3 750.00	7.84	3 850.00	8.34
	16QAM	Low	3 750.00	7.82	3 850.00	8.39
	64QAM	Low	3 750.00	7.85	3 850.00	8.34
	256QAM	Low	3 750.00	7.89	3 850.00	8.36
9	QPSK	Low	3 750.00	7.85	3 850.00	8.37
	16QAM	Low	3 750.00	7.82	3 850.00	8.40
	64QAM	Low	3 750.00	7.86	3 850.00	8.35
	256QAM	Low	3 750.00	7.88	3 850.00	8.34
10	QPSK	Low	3 750.00	7.86	3 850.00	8.38
	16QAM	Low	3 750.00	7.85	3 850.00	8.41
	64QAM	Low	3 750.00	7.85	3 850.00	8.33
	256QAM	Low	3 750.00	7.88	3 850.00	8.35
11	QPSK	Low	3 750.00	7.81	3 850.00	8.35
	16QAM	Low	3 750.00	7.77	3 850.00	8.37
	64QAM	Low	3 750.00	7.78	3 850.00	8.37
	256QAM	Low	3 750.00	7.82	3 850.00	8.34
12	QPSK	Low	3 750.00	7.75	3 850.00	8.34
	16QAM	Low	3 750.00	7.77	3 850.00	8.36
	64QAM	Low	3 750.00	7.79	3 850.00	8.39
	256QAM	Low	3 750.00	7.81	3 850.00	8.35
13	QPSK	Low	3 750.00	7.86	3 850.00	8.34
	16QAM	Low	3 750.00	7.83	3 850.00	8.35
	64QAM	Low	3 750.00	7.82	3 850.00	8.35
	256QAM	Low	3 750.00	7.83	3 850.00	8.34
14	QPSK	Low	3 750.00	7.84	3 850.00	8.35
	16QAM	Low	3 750.00	7.87	3 850.00	8.34
	64QAM	Low	3 750.00	7.84	3 850.00	8.36
	256QAM	Low	3 750.00	7.88	3 850.00	8.35
15	QPSK	Low	3 750.00	7.83	3 850.00	8.35
	16QAM	Low	3 750.00	7.82	3 850.00	8.39
	64QAM	Low	3 750.00	7.81	3 850.00	8.36
	256QAM	Low	3 750.00	7.87	3 850.00	8.32

Ant.	Modulation	Channel	1 Carrier		2 Carrier	
			Frequency (MHz)	0.1 % PAPR (dB)	Frequency (MHz)	0.1 % PAPR (dB)
16	QPSK	Low	3 750.00	7.86	3 850.00	8.38
	16QAM	Low	3 750.00	7.82	3 850.00	8.35
	64QAM	Low	3 750.00	7.85	3 850.00	8.38
	256QAM	Low	3 750.00	7.88	3 850.00	8.33
17	QPSK	Low	3 750.00	7.87	3 850.00	8.37
	16QAM	Low	3 750.00	7.84	3 850.00	8.35
	64QAM	Low	3 750.00	7.84	3 850.00	8.37
	256QAM	Low	3 750.00	7.92	3 850.00	8.34
18	QPSK	Low	3 750.00	7.89	3 850.00	8.35
	16QAM	Low	3 750.00	7.86	3 850.00	8.37
	64QAM	Low	3 750.00	7.86	3 850.00	8.38
	256QAM	Low	3 750.00	7.86	3 850.00	8.34
19	QPSK	Low	3 750.00	7.80	3 850.00	8.37
	16QAM	Low	3 750.00	7.85	3 850.00	8.29
	64QAM	Low	3 750.00	7.86	3 850.00	8.37
	256QAM	Low	3 750.00	7.89	3 850.00	8.35
20	QPSK	Low	3 750.00	7.81	3 850.00	8.35
	16QAM	Low	3 750.00	7.78	3 850.00	8.32
	64QAM	Low	3 750.00	7.83	3 850.00	8.38
	256QAM	Low	3 750.00	7.89	3 850.00	8.34
21	QPSK	Low	3 750.00	7.85	3 850.00	8.36
	16QAM	Low	3 750.00	7.85	3 850.00	8.33
	64QAM	Low	3 750.00	7.84	3 850.00	8.37
	256QAM	Low	3 750.00	7.89	3 850.00	8.34
22	QPSK	Low	3 750.00	7.84	3 850.00	8.33
	16QAM	Low	3 750.00	7.86	3 850.00	8.31
	64QAM	Low	3 750.00	7.87	3 850.00	8.40
	256QAM	Low	3 750.00	7.90	3 850.00	8.33
23	QPSK	Low	3 750.00	7.84	3 850.00	8.37
	16QAM	Low	3 750.00	7.83	3 850.00	8.32
	64QAM	Low	3 750.00	7.87	3 850.00	8.39
	256QAM	Low	3 750.00	7.89	3 850.00	8.33

Ant.	Modulation	Channel	1 Carrier		2 Carrier	
			Frequency (MHz)	0.1 % PAPR (dB)	Frequency (MHz)	0.1 % PAPR (dB)
24	QPSK	Low	3 750.00	7.87	3 850.00	8.38
	16QAM	Low	3 750.00	7.86	3 850.00	8.31
	64QAM	Low	3 750.00	7.85	3 850.00	8.40
	256QAM	Low	3 750.00	7.87	3 850.00	8.34
25	QPSK	Low	3 750.00	7.84	3 850.00	8.36
	16QAM	Low	3 750.00	7.85	3 850.00	8.32
	64QAM	Low	3 750.00	7.86	3 850.00	8.36
	256QAM	Low	3 750.00	7.84	3 850.00	8.35
26	QPSK	Low	3 750.00	7.88	3 850.00	8.36
	16QAM	Low	3 750.00	7.85	3 850.00	8.32
	64QAM	Low	3 750.00	7.85	3 850.00	8.40
	256QAM	Low	3 750.00	7.86	3 850.00	8.38
27	QPSK	Low	3 750.00	7.86	3 850.00	8.36
	16QAM	Low	3 750.00	7.82	3 850.00	8.32
	64QAM	Low	3 750.00	7.86	3 850.00	8.38
	256QAM	Low	3 750.00	7.88	3 850.00	8.34
28	QPSK	Low	3 750.00	7.86	3 850.00	8.34
	16QAM	Low	3 750.00	7.82	3 850.00	8.30
	64QAM	Low	3 750.00	7.86	3 850.00	8.38
	256QAM	Low	3 750.00	7.88	3 850.00	8.36
29	QPSK	Low	3 750.00	7.84	3 850.00	8.33
	16QAM	Low	3 750.00	7.86	3 850.00	8.34
	64QAM	Low	3 750.00	7.84	3 850.00	8.37
	256QAM	Low	3 750.00	7.90	3 850.00	8.35
30	QPSK	Low	3 750.00	7.86	3 850.00	8.35
	16QAM	Low	3 750.00	7.87	3 850.00	8.35
	64QAM	Low	3 750.00	7.86	3 850.00	8.38
	256QAM	Low	3 750.00	7.90	3 850.00	8.35
31	QPSK	Low	3 750.00	7.87	3 850.00	8.39
	16QAM	Low	3 750.00	7.84	3 850.00	8.31
	64QAM	Low	3 750.00	7.85	3 850.00	8.37
	256QAM	Low	3 750.00	7.92	3 850.00	8.36



Ant.	Modulation	Channel	1 Carrier		2 Carrier	
			Frequency (MHz)	0.1 % PAPR (dB)	Frequency (MHz)	0.1 % PAPR (dB)
32	QPSK	Low	3 750.00	7.83	3 850.00	8.39
	16QAM	Low	3 750.00	7.87	3 850.00	8.36
	64QAM	Low	3 750.00	7.84	3 850.00	8.37
	256QAM	Low	3 750.00	7.89	3 850.00	8.36
33	QPSK	Low	3 750.00	7.76	3 850.00	8.44
	16QAM	Low	3 750.00	7.82	3 850.00	8.39
	64QAM	Low	3 750.00	7.79	3 850.00	8.38
	256QAM	Low	3 750.00	7.81	3 850.00	8.35
34	QPSK	Low	3 750.00	7.77	3 850.00	8.37
	16QAM	Low	3 750.00	7.83	3 850.00	8.36
	64QAM	Low	3 750.00	7.82	3 850.00	8.39
	256QAM	Low	3 750.00	7.87	3 850.00	8.35
35	QPSK	Low	3 750.00	7.83	3 850.00	8.37
	16QAM	Low	3 750.00	7.84	3 850.00	8.36
	64QAM	Low	3 750.00	7.81	3 850.00	8.39
	256QAM	Low	3 750.00	7.87	3 850.00	8.34
36	QPSK	Low	3 750.00	7.79	3 850.00	8.42
	16QAM	Low	3 750.00	7.84	3 850.00	8.36
	64QAM	Low	3 750.00	7.81	3 850.00	8.39
	256QAM	Low	3 750.00	7.86	3 850.00	8.34
37	QPSK	Low	3 750.00	7.82	3 850.00	8.38
	16QAM	Low	3 750.00	7.84	3 850.00	8.39
	64QAM	Low	3 750.00	7.80	3 850.00	8.38
	256QAM	Low	3 750.00	7.86	3 850.00	8.35
38	QPSK	Low	3 750.00	7.83	3 850.00	8.39
	16QAM	Low	3 750.00	7.88	3 850.00	8.37
	64QAM	Low	3 750.00	7.84	3 850.00	8.38
	256QAM	Low	3 750.00	7.88	3 850.00	8.34
39	QPSK	Low	3 750.00	7.84	3 850.00	8.38
	16QAM	Low	3 750.00	7.86	3 850.00	8.35
	64QAM	Low	3 750.00	7.84	3 850.00	8.38
	256QAM	Low	3 750.00	7.86	3 850.00	8.33

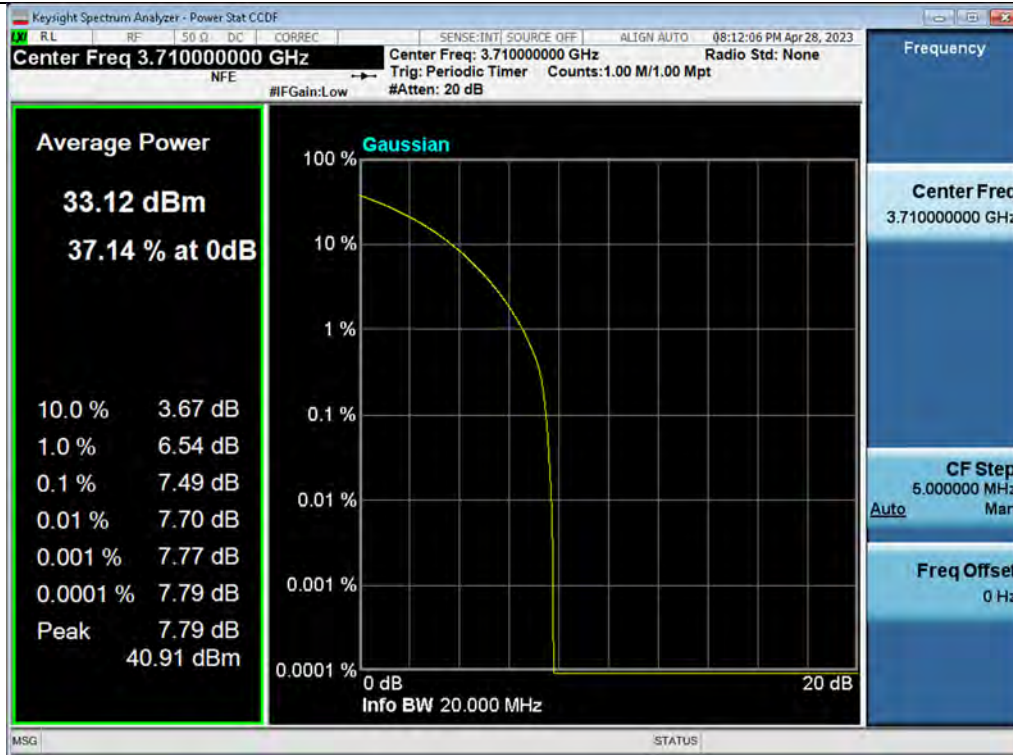
Ant.	Modulation	Channel	1 Carrier		2 Carrier	
			Frequency (MHz)	0.1 % PAPR (dB)	Frequency (MHz)	0.1 % PAPR (dB)
40	QPSK	Low	3 750.00	7.86	3 850.00	8.39
	16QAM	Low	3 750.00	7.86	3 850.00	8.38
	64QAM	Low	3 750.00	7.86	3 850.00	8.39
	256QAM	Low	3 750.00	7.88	3 850.00	8.36
41	QPSK	Low	3 750.00	7.85	3 850.00	8.38
	16QAM	Low	3 750.00	7.87	3 850.00	8.34
	64QAM	Low	3 750.00	7.85	3 850.00	8.41
	256QAM	Low	3 750.00	7.90	3 850.00	8.34
42	QPSK	Low	3 750.00	7.84	3 850.00	8.38
	16QAM	Low	3 750.00	7.84	3 850.00	8.37
	64QAM	Low	3 750.00	7.84	3 850.00	8.38
	256QAM	Low	3 750.00	7.87	3 850.00	8.35
43	QPSK	Low	3 750.00	7.87	3 850.00	8.41
	16QAM	Low	3 750.00	7.74	3 850.00	8.39
	64QAM	Low	3 750.00	7.77	3 850.00	8.33
	256QAM	Low	3 750.00	7.88	3 850.00	8.34
44	QPSK	Low	3 750.00	7.87	3 850.00	8.38
	16QAM	Low	3 750.00	7.79	3 850.00	8.43
	64QAM	Low	3 750.00	7.81	3 850.00	8.32
	256QAM	Low	3 750.00	7.87	3 850.00	8.32
45	QPSK	Low	3 750.00	7.88	3 850.00	8.37
	16QAM	Low	3 750.00	7.80	3 850.00	8.40
	64QAM	Low	3 750.00	7.83	3 850.00	8.35
	256QAM	Low	3 750.00	7.91	3 850.00	8.34
46	QPSK	Low	3 750.00	7.89	3 850.00	8.38
	16QAM	Low	3 750.00	7.82	3 850.00	8.41
	64QAM	Low	3 750.00	7.84	3 850.00	8.33
	256QAM	Low	3 750.00	7.87	3 850.00	8.30
47	QPSK	Low	3 750.00	7.88	3 850.00	8.38
	16QAM	Low	3 750.00	7.84	3 850.00	8.41
	64QAM	Low	3 750.00	7.87	3 850.00	8.31
	256QAM	Low	3 750.00	7.89	3 850.00	8.34

Ant.	Modulation	Channel	1 Carrier		2 Carrier	
			Frequency (MHz)	0.1 % PAPR (dB)	Frequency (MHz)	0.1 % PAPR (dB)
48	QPSK	Low	3 750.00	7.87	3 850.00	8.39
	16QAM	Low	3 750.00	7.83	3 850.00	8.44
	64QAM	Low	3 750.00	7.87	3 850.00	8.34
	256QAM	Low	3 750.00	7.88	3 850.00	8.32
49	QPSK	Low	3 750.00	7.89	3 850.00	8.41
	16QAM	Low	3 750.00	7.84	3 850.00	8.42
	64QAM	Low	3 750.00	7.86	3 850.00	8.35
	256QAM	Low	3 750.00	7.90	3 850.00	8.34
50	QPSK	Low	3 750.00	7.88	3 850.00	8.42
	16QAM	Low	3 750.00	7.87	3 850.00	8.42
	64QAM	Low	3 750.00	7.87	3 850.00	8.36
	256QAM	Low	3 750.00	7.86	3 850.00	8.35
51	QPSK	Low	3 750.00	7.88	3 850.00	8.39
	16QAM	Low	3 750.00	7.85	3 850.00	8.42
	64QAM	Low	3 750.00	7.85	3 850.00	8.33
	256QAM	Low	3 750.00	7.85	3 850.00	8.34
52	QPSK	Low	3 750.00	7.89	3 850.00	8.38
	16QAM	Low	3 750.00	7.85	3 850.00	8.41
	64QAM	Low	3 750.00	7.88	3 850.00	8.36
	256QAM	Low	3 750.00	7.89	3 850.00	8.34
53	QPSK	Low	3 750.00	7.85	3 850.00	8.41
	16QAM	Low	3 750.00	7.89	3 850.00	8.40
	64QAM	Low	3 750.00	7.87	3 850.00	8.37
	256QAM	Low	3 750.00	7.87	3 850.00	8.34
54	QPSK	Low	3 750.00	7.87	3 850.00	8.40
	16QAM	Low	3 750.00	7.90	3 850.00	8.44
	64QAM	Low	3 750.00	7.88	3 850.00	8.35
	256QAM	Low	3 750.00	7.87	3 850.00	8.29
55	QPSK	Low	3 750.00	7.87	3 850.00	8.38
	16QAM	Low	3 750.00	7.90	3 850.00	8.43
	64QAM	Low	3 750.00	7.86	3 850.00	8.34
	256QAM	Low	3 750.00	7.87	3 850.00	8.34

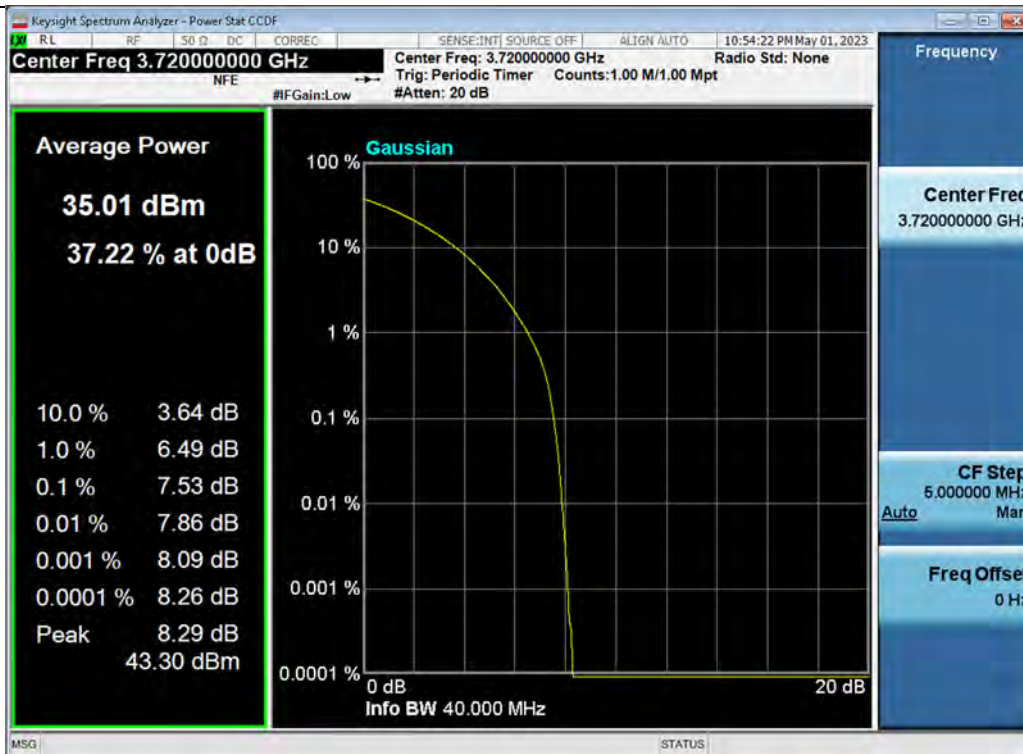
Ant.	Modulation	Channel	1 Carrier		2 Carrier	
			Frequency (MHz)	0.1 % PAPR (dB)	Frequency (MHz)	0.1 % PAPR (dB)
56	QPSK	Low	3 750.00	7.91	3 850.00	8.38
	16QAM	Low	3 750.00	7.91	3 850.00	8.45
	64QAM	Low	3 750.00	7.84	3 850.00	8.36
	256QAM	Low	3 750.00	7.91	3 850.00	8.35
57	QPSK	Low	3 750.00	7.86	3 850.00	8.37
	16QAM	Low	3 750.00	7.92	3 850.00	8.42
	64QAM	Low	3 750.00	7.87	3 850.00	8.34
	256QAM	Low	3 750.00	7.91	3 850.00	8.35
58	QPSK	Low	3 750.00	7.87	3 850.00	8.39
	16QAM	Low	3 750.00	7.90	3 850.00	8.44
	64QAM	Low	3 750.00	7.86	3 850.00	8.33
	256QAM	Low	3 750.00	7.88	3 850.00	8.32
59	QPSK	Low	3 750.00	7.88	3 850.00	8.42
	16QAM	Low	3 750.00	7.95	3 850.00	8.44
	64QAM	Low	3 750.00	7.87	3 850.00	8.34
	256QAM	Low	3 750.00	7.90	3 850.00	8.31
60	QPSK	Low	3 750.00	7.88	3 850.00	8.37
	16QAM	Low	3 750.00	7.88	3 850.00	8.43
	64QAM	Low	3 750.00	7.85	3 850.00	8.35
	256QAM	Low	3 750.00	7.89	3 850.00	8.33
61	QPSK	Low	3 750.00	7.89	3 850.00	8.41
	16QAM	Low	3 750.00	7.93	3 850.00	8.44
	64QAM	Low	3 750.00	7.88	3 850.00	8.35
	256QAM	Low	3 750.00	7.89	3 850.00	8.36
62	QPSK	Low	3 750.00	7.89	3 850.00	8.40
	16QAM	Low	3 750.00	7.91	3 850.00	8.40
	64QAM	Low	3 750.00	7.86	3 850.00	8.34
	256QAM	Low	3 750.00	7.88	3 850.00	8.34
63	QPSK	Low	3 750.00	7.89	3 850.00	8.40
	16QAM	Low	3 750.00	7.89	3 850.00	8.43
	64QAM	Low	3 750.00	7.87	3 850.00	8.33
	256QAM	Low	3 750.00	7.90	3 850.00	8.36

## Plot Data of PAPR

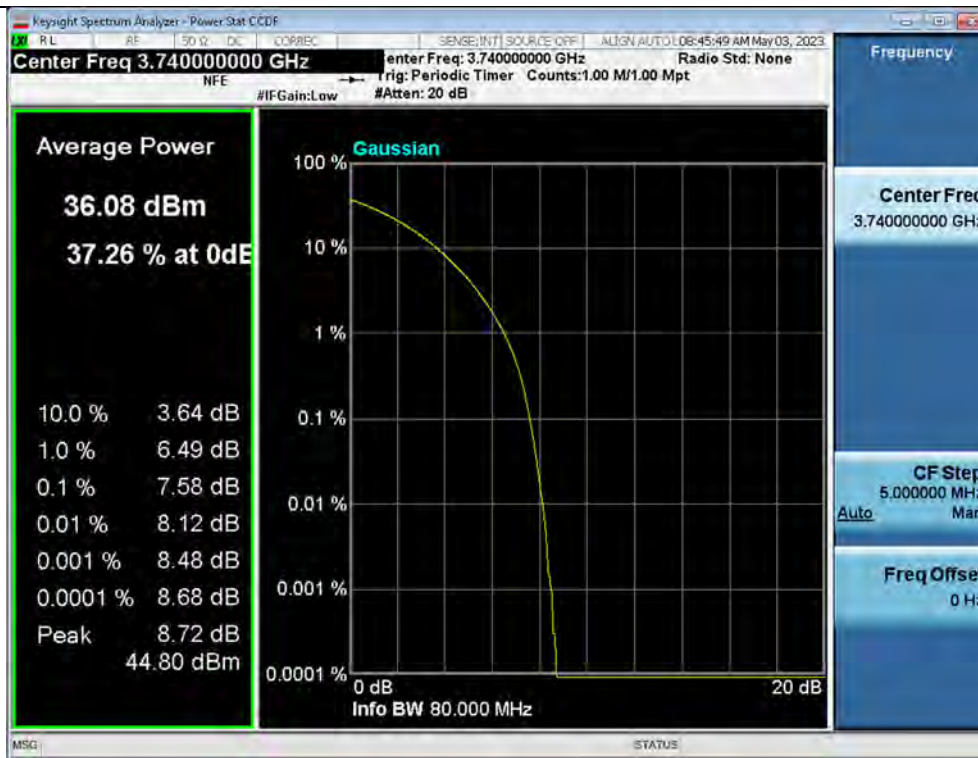
## Antenna 1 / (64 Port) 5G NR n77 20 MHz [1 Carrier] / 256QAM / Low



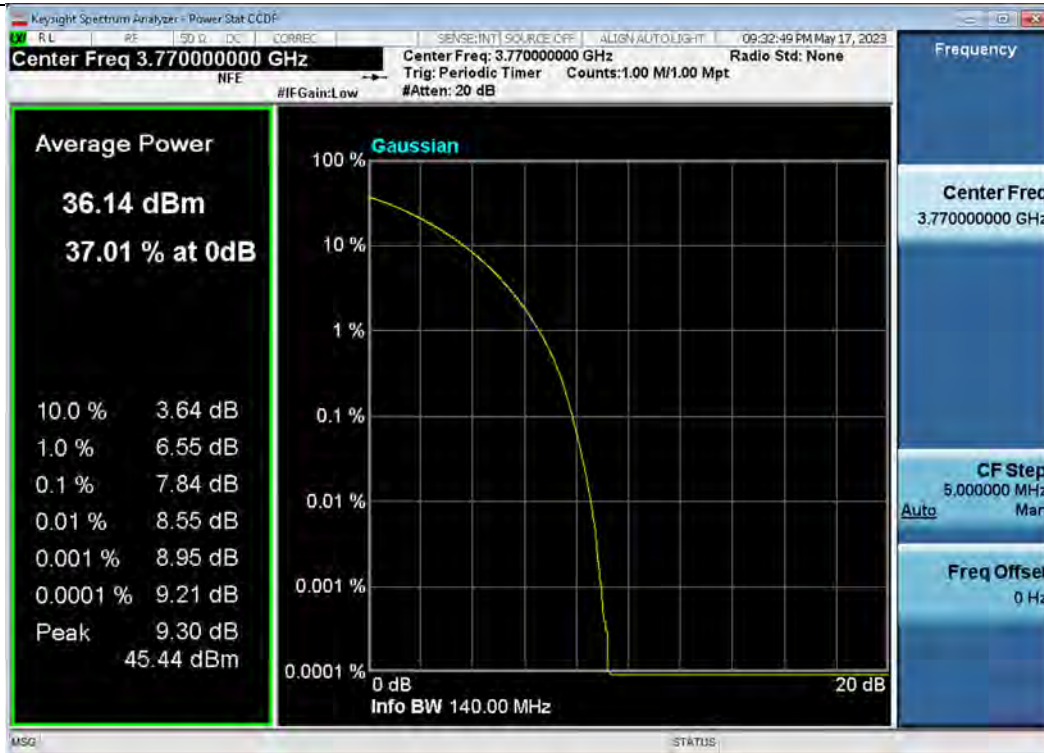
## Antenna 19 / (64 Port) 5G NR n77 40 MHz [1 Carrier] / 256QAM / Low



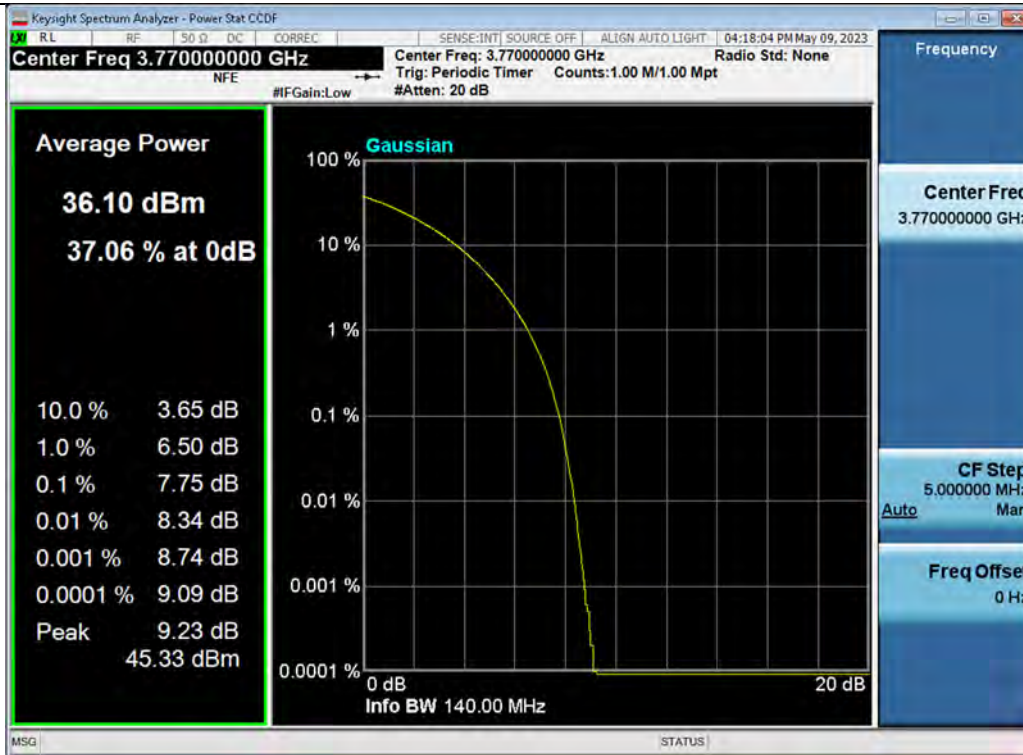
## Antenna 1 / (64 Port) 5G NR n77 80 MHz [1 Carrier] / 256QAM / Low



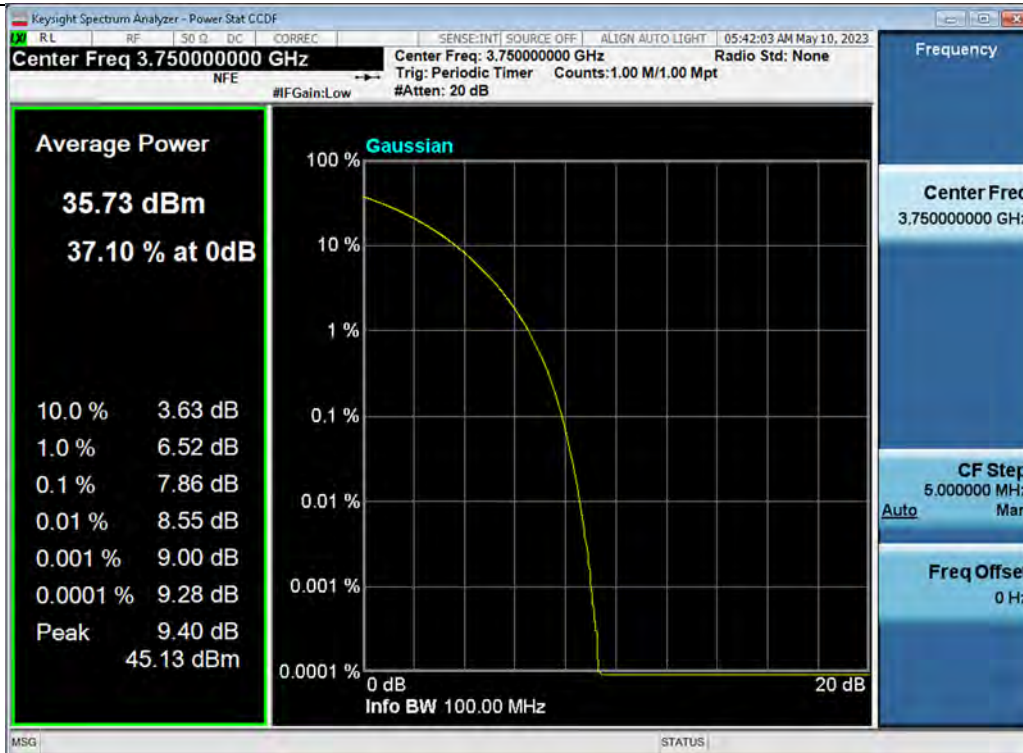
## Antenna 43 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] / 64QAM / Low



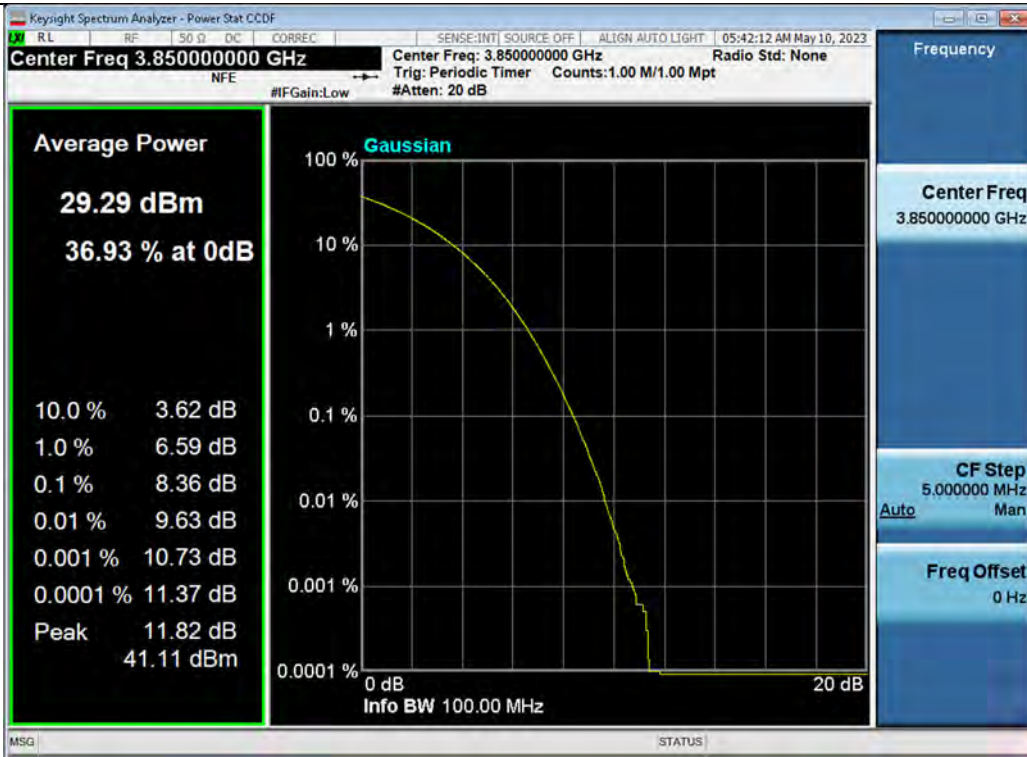
Antenna 1 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] (Asymmetric) / QPSK / Low



Antenna 25 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 100 MHz 1 Carrier [2 Carrier] (Asymmetric) / 64QAM / Low



Antenna 25 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 100 MHz 1 Carrier [2 Carrier] (Asymmetric) / 64QAM / Low





### 5.3. OCCUPIED BANDWIDTH

#### Test Requirements:

##### § 2.1049 Measurements required: Occupied bandwidth.

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured under the specified conditions of § 2.1049 (a) through (i) as applicable.

#### Test Procedures:

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

##### 5.4.3 Occupied bandwidth—Relative measurement procedure

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

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

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

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

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

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

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

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

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

**Test Results:**  
**Tabular Data of Occupied Bandwidth**

**(64 Port) 5G NR n77 20 MHz [1 Carrier]**

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	3 710.00	18.290
		Middle	3 840.00	18.300
		High	3 970.00	18.328
	16QAM	Low	3 710.00	18.353
		Middle	3 840.00	18.291
		High	3 970.00	18.279
	64QAM	Low	3 710.00	18.018
		Middle	3 840.00	18.010
		High	3 970.00	17.999
	256QAM	Low	3 710.00	18.254
		Middle	3 840.00	18.239
		High	3 970.00	18.226
1	QPSK	Low	3 710.00	18.292
		Middle	3 840.00	18.332
		High	3 970.00	18.280
	16QAM	Low	3 710.00	18.347
		Middle	3 840.00	18.285
		High	3 970.00	18.271
	64QAM	Low	3 710.00	18.017
		Middle	3 840.00	18.011
		High	3 970.00	18.001
	256QAM	Low	3 710.00	18.250
		Middle	3 840.00	18.223
		High	3 970.00	18.229

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
2	QPSK	Low	3 710.00	18.305
		Middle	3 840.00	18.310
		High	3 970.00	18.360
	16QAM	Low	3 710.00	18.351
		Middle	3 840.00	18.287
		High	3 970.00	18.283
	64QAM	Low	3 710.00	18.018
		Middle	3 840.00	18.012
		High	3 970.00	18.007
256QAM	Low	3 710.00	18.254	
	Middle	3 840.00	18.244	
	High	3 970.00	18.235	
3	QPSK	Low	3 710.00	18.293
		Middle	3 840.00	18.312
		High	3 970.00	18.271
	16QAM	Low	3 710.00	18.358
		Middle	3 840.00	18.295
		High	3 970.00	18.271
	64QAM	Low	3 710.00	18.016
		Middle	3 840.00	18.011
		High	3 970.00	18.001
256QAM	Low	3 710.00	18.247	
	Middle	3 840.00	18.224	
	High	3 970.00	18.215	
4	QPSK	Low	3 710.00	18.309
		Middle	3 840.00	18.275
		High	3 970.00	18.292
	16QAM	Low	3 710.00	18.373
		Middle	3 840.00	18.263
		High	3 970.00	18.295
	64QAM	Low	3 710.00	18.019
		Middle	3 840.00	17.997
		High	3 970.00	18.007
256QAM	Low	3 710.00	18.260	
	Middle	3 840.00	18.230	
	High	3 970.00	18.220	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
5	QPSK	Low	3 710.00	18.305
		Middle	3 840.00	18.369
		High	3 970.00	18.350
	16QAM	Low	3 710.00	18.372
		Middle	3 840.00	18.286
		High	3 970.00	18.279
	64QAM	Low	3 710.00	18.018
		Middle	3 840.00	18.006
		High	3 970.00	18.003
256QAM	Low	3 710.00	18.256	
	Middle	3 840.00	18.235	
	High	3 970.00	18.229	
6	QPSK	Low	3 710.00	18.307
		Middle	3 840.00	18.362
		High	3 970.00	18.277
	16QAM	Low	3 710.00	18.346
		Middle	3 840.00	18.284
		High	3 970.00	18.271
	64QAM	Low	3 710.00	18.018
		Middle	3 840.00	18.010
		High	3 970.00	18.003
256QAM	Low	3 710.00	18.224	
	Middle	3 840.00	18.242	
	High	3 970.00	18.213	
7	QPSK	Low	3 710.00	18.292
		Middle	3 840.00	18.373
		High	3 970.00	18.352
	16QAM	Low	3 710.00	18.359
		Middle	3 840.00	18.286
		High	3 970.00	18.276
	64QAM	Low	3 710.00	18.016
		Middle	3 840.00	18.012
		High	3 970.00	18.005
256QAM	Low	3 710.00	18.225	
	Middle	3 840.00	18.244	
	High	3 970.00	18.232	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
8	QPSK	Low	3 710.00	18.310
		Middle	3 840.00	18.368
		High	3 970.00	18.346
	16QAM	Low	3 710.00	18.366
		Middle	3 840.00	18.278
		High	3 970.00	18.270
	64QAM	Low	3 710.00	18.019
		Middle	3 840.00	18.008
		High	3 970.00	18.001
256QAM	Low	3 710.00	18.261	
	Middle	3 840.00	18.238	
	High	3 970.00	18.229	
9	QPSK	Low	3 710.00	18.308
		Middle	3 840.00	18.362
		High	3 970.00	18.318
	16QAM	Low	3 710.00	18.351
		Middle	3 840.00	18.281
		High	3 970.00	18.269
	64QAM	Low	3 710.00	18.018
		Middle	3 840.00	18.009
		High	3 970.00	17.997
256QAM	Low	3 710.00	18.228	
	Middle	3 840.00	18.242	
	High	3 970.00	18.224	
10	QPSK	Low	3 710.00	18.307
		Middle	3 840.00	18.360
		High	3 970.00	18.346
	16QAM	Low	3 710.00	18.362
		Middle	3 840.00	18.284
		High	3 970.00	18.272
	64QAM	Low	3 710.00	18.018
		Middle	3 840.00	18.007
		High	3 970.00	18.002
256QAM	Low	3 710.00	18.227	
	Middle	3 840.00	18.239	
	High	3 970.00	18.214	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
11	QPSK	Low	3 710.00	18.293
		Middle	3 840.00	18.309
		High	3 970.00	18.362
	16QAM	Low	3 710.00	18.337
		Middle	3 840.00	18.281
		High	3 970.00	18.276
	64QAM	Low	3 710.00	18.017
		Middle	3 840.00	18.009
		High	3 970.00	18.006
256QAM	Low	3 710.00	18.251	
	Middle	3 840.00	18.222	
	High	3 970.00	18.219	
12	QPSK	Low	3 710.00	18.291
		Middle	3 840.00	18.302
		High	3 970.00	18.298
	16QAM	Low	3 710.00	18.329
		Middle	3 840.00	18.294
		High	3 970.00	18.277
	64QAM	Low	3 710.00	18.017
		Middle	3 840.00	18.012
		High	3 970.00	18.005
256QAM	Low	3 710.00	18.246	
	Middle	3 840.00	18.227	
	High	3 970.00	18.232	
13	QPSK	Low	3 710.00	18.290
		Middle	3 840.00	18.300
		High	3 970.00	18.323
	16QAM	Low	3 710.00	18.355
		Middle	3 840.00	18.284
		High	3 970.00	18.278
	64QAM	Low	3 710.00	18.016
		Middle	3 840.00	18.011
		High	3 970.00	18.001
256QAM	Low	3 710.00	18.223	
	Middle	3 840.00	18.226	
	High	3 970.00	18.228	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
14	QPSK	Low	3 710.00	18.297
		Middle	3 840.00	18.304
		High	3 970.00	18.370
	16QAM	Low	3 710.00	18.365
		Middle	3 840.00	18.284
		High	3 970.00	18.298
	64QAM	Low	3 710.00	18.018
		Middle	3 840.00	18.007
		High	3 970.00	18.011
256QAM	Low	3 710.00	18.253	
	Middle	3 840.00	18.239	
	High	3 970.00	18.240	
15	QPSK	Low	3 710.00	18.294
		Middle	3 840.00	18.374
		High	3 970.00	18.276
	16QAM	Low	3 710.00	18.340
		Middle	3 840.00	18.290
		High	3 970.00	18.274
	64QAM	Low	3 710.00	18.018
		Middle	3 840.00	18.014
		High	3 970.00	18.003
256QAM	Low	3 710.00	18.252	
	Middle	3 840.00	18.248	
	High	3 970.00	18.230	
16	QPSK	Low	3 710.00	18.309
		Middle	3 840.00	18.337
		High	3 970.00	18.328
	16QAM	Low	3 710.00	18.363
		Middle	3 840.00	18.268
		High	3 970.00	18.276
	64QAM	Low	3 710.00	18.020
		Middle	3 840.00	18.002
		High	3 970.00	18.000
256QAM	Low	3 710.00	18.229	
	Middle	3 840.00	18.213	
	High	3 970.00	18.212	



Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
17	QPSK	Low	3 710.00	18.303
		Middle	3 840.00	18.305
		High	3 970.00	18.348
	16QAM	Low	3 710.00	18.362
		Middle	3 840.00	18.291
		High	3 970.00	18.275
	64QAM	Low	3 710.00	18.018
		Middle	3 840.00	18.013
		High	3 970.00	18.002
256QAM	Low	3 710.00	18.224	
	Middle	3 840.00	18.246	
	High	3 970.00	18.230	
18	QPSK	Low	3 710.00	18.293
		Middle	3 840.00	18.298
		High	3 970.00	18.350
	16QAM	Low	3 710.00	18.381
		Middle	3 840.00	18.291
		High	3 970.00	18.271
	64QAM	Low	3 710.00	18.018
		Middle	3 840.00	18.016
		High	3 970.00	18.005
256QAM	Low	3 710.00	18.259	
	Middle	3 840.00	18.248	
	High	3 970.00	18.233	
19	QPSK	Low	3 710.00	18.305
		Middle	3 840.00	18.358
		High	3 970.00	18.268
	16QAM	Low	3 710.00	18.368
		Middle	3 840.00	18.293
		High	3 970.00	18.274
	64QAM	Low	3 710.00	18.019
		Middle	3 840.00	18.010
		High	3 970.00	17.999
256QAM	Low	3 710.00	18.261	
	Middle	3 840.00	18.247	
	High	3 970.00	18.214	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
20	QPSK	Low	3 710.00	18.307
		Middle	3 840.00	18.306
		High	3 970.00	18.357
	16QAM	Low	3 710.00	18.352
		Middle	3 840.00	18.298
		High	3 970.00	18.273
	64QAM	Low	3 710.00	18.019
		Middle	3 840.00	18.017
		High	3 970.00	18.008
256QAM	Low	3 710.00	18.226	
	Middle	3 840.00	18.229	
	High	3 970.00	18.218	
21	QPSK	Low	3 710.00	18.310
		Middle	3 840.00	18.338
		High	3 970.00	18.266
	16QAM	Low	3 710.00	18.366
		Middle	3 840.00	18.274
		High	3 970.00	18.270
	64QAM	Low	3 710.00	18.020
		Middle	3 840.00	18.003
		High	3 970.00	17.997
256QAM	Low	3 710.00	18.258	
	Middle	3 840.00	18.218	
	High	3 970.00	18.226	
22	QPSK	Low	3 710.00	18.306
		Middle	3 840.00	18.300
		High	3 970.00	18.346
	16QAM	Low	3 710.00	18.366
		Middle	3 840.00	18.292
		High	3 970.00	18.269
	64QAM	Low	3 710.00	18.019
		Middle	3 840.00	18.009
		High	3 970.00	18.004
256QAM	Low	3 710.00	18.224	
	Middle	3 840.00	18.242	
	High	3 970.00	18.229	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
23	QPSK	Low	3 710.00	18.296
		Middle	3 840.00	18.329
		High	3 970.00	18.351
	16QAM	Low	3 710.00	18.376
		Middle	3 840.00	18.266
		High	3 970.00	18.276
	64QAM	Low	3 710.00	18.021
		Middle	3 840.00	18.002
		High	3 970.00	18.007
256QAM	Low	3 710.00	18.275	
	Middle	3 840.00	18.232	
	High	3 970.00	18.217	
24	QPSK	Low	3 710.00	18.296
		Middle	3 840.00	18.311
		High	3 970.00	18.263
	16QAM	Low	3 710.00	18.379
		Middle	3 840.00	18.266
		High	3 970.00	18.267
	64QAM	Low	3 710.00	18.021
		Middle	3 840.00	18.000
		High	3 970.00	17.998
256QAM	Low	3 710.00	18.269	
	Middle	3 840.00	18.233	
	High	3 970.00	18.210	
25	QPSK	Low	3 710.00	18.307
		Middle	3 840.00	18.302
		High	3 970.00	18.337
	16QAM	Low	3 710.00	18.374
		Middle	3 840.00	18.287
		High	3 970.00	18.273
	64QAM	Low	3 710.00	18.019
		Middle	3 840.00	18.008
		High	3 970.00	17.999
256QAM	Low	3 710.00	18.256	
	Middle	3 840.00	18.242	
	High	3 970.00	18.211	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
26	QPSK	Low	3 710.00	18.288
		Middle	3 840.00	18.283
		High	3 970.00	18.339
	16QAM	Low	3 710.00	18.358
		Middle	3 840.00	18.290
		High	3 970.00	18.270
	64QAM	Low	3 710.00	18.017
		Middle	3 840.00	18.008
		High	3 970.00	18.000
256QAM	Low	3 710.00	18.245	
	Middle	3 840.00	18.242	
	High	3 970.00	18.228	
27	QPSK	Low	3 710.00	18.304
		Middle	3 840.00	18.282
		High	3 970.00	18.352
	16QAM	Low	3 710.00	18.346
		Middle	3 840.00	18.283
		High	3 970.00	18.269
	64QAM	Low	3 710.00	18.017
		Middle	3 840.00	18.010
		High	3 970.00	18.005
256QAM	Low	3 710.00	18.222	
	Middle	3 840.00	18.222	
	High	3 970.00	18.216	
28	QPSK	Low	3 710.00	18.293
		Middle	3 840.00	18.377
		High	3 970.00	18.272
	16QAM	Low	3 710.00	18.379
		Middle	3 840.00	18.287
		High	3 970.00	18.276
	64QAM	Low	3 710.00	18.019
		Middle	3 840.00	18.013
		High	3 970.00	18.005
256QAM	Low	3 710.00	18.260	
	Middle	3 840.00	18.227	
	High	3 970.00	18.215	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
29	QPSK	Low	3 710.00	18.294
		Middle	3 840.00	18.290
		High	3 970.00	18.272
	16QAM	Low	3 710.00	18.371
		Middle	3 840.00	18.282
		High	3 970.00	18.279
	64QAM	Low	3 710.00	18.022
		Middle	3 840.00	18.001
		High	3 970.00	18.003
256QAM	Low	3 710.00	18.272	
	Middle	3 840.00	18.233	
	High	3 970.00	18.214	
30	QPSK	Low	3 710.00	18.290
		Middle	3 840.00	18.288
		High	3 970.00	18.289
	16QAM	Low	3 710.00	18.365
		Middle	3 840.00	18.283
		High	3 970.00	18.271
	64QAM	Low	3 710.00	18.017
		Middle	3 840.00	18.009
		High	3 970.00	18.004
256QAM	Low	3 710.00	18.250	
	Middle	3 840.00	18.243	
	High	3 970.00	18.215	
31	QPSK	Low	3 710.00	18.305
		Middle	3 840.00	18.288
		High	3 970.00	18.282
	16QAM	Low	3 710.00	18.347
		Middle	3 840.00	18.298
		High	3 970.00	18.269
	64QAM	Low	3 710.00	18.017
		Middle	3 840.00	18.012
		High	3 970.00	18.001
256QAM	Low	3 710.00	18.250	
	Middle	3 840.00	18.230	
	High	3 970.00	18.228	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
32	QPSK	Low	3 710.00	18.285
		Middle	3 840.00	18.314
		High	3 970.00	18.312
	16QAM	Low	3 710.00	18.379
		Middle	3 840.00	18.297
		High	3 970.00	18.278
	64QAM	Low	3 710.00	18.020
		Middle	3 840.00	18.005
		High	3 970.00	17.998
256QAM	Low	3 710.00	18.273	
	Middle	3 840.00	18.242	
	High	3 970.00	18.228	
33	QPSK	Low	3 710.00	18.308
		Middle	3 840.00	18.342
		High	3 970.00	18.309
	16QAM	Low	3 710.00	18.363
		Middle	3 840.00	18.280
		High	3 970.00	18.275
	64QAM	Low	3 710.00	18.017
		Middle	3 840.00	18.009
		High	3 970.00	18.009
256QAM	Low	3 710.00	18.252	
	Middle	3 840.00	18.221	
	High	3 970.00	18.220	
34	QPSK	Low	3 710.00	18.308
		Middle	3 840.00	18.297
		High	3 970.00	18.356
	16QAM	Low	3 710.00	18.336
		Middle	3 840.00	18.293
		High	3 970.00	18.270
	64QAM	Low	3 710.00	18.015
		Middle	3 840.00	18.013
		High	3 970.00	18.008
256QAM	Low	3 710.00	18.250	
	Middle	3 840.00	18.223	
	High	3 970.00	18.217	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
35	QPSK	Low	3 710.00	18.330
		Middle	3 840.00	18.293
		High	3 970.00	18.327
	16QAM	Low	3 710.00	18.341
		Middle	3 840.00	18.283
		High	3 970.00	18.279
	64QAM	Low	3 710.00	18.016
		Middle	3 840.00	18.008
		High	3 970.00	17.999
256QAM	Low	3 710.00	18.223	
	Middle	3 840.00	18.242	
	High	3 970.00	18.215	
36	QPSK	Low	3 710.00	18.294
		Middle	3 840.00	18.310
		High	3 970.00	18.290
	16QAM	Low	3 710.00	18.364
		Middle	3 840.00	18.282
		High	3 970.00	18.276
	64QAM	Low	3 710.00	18.019
		Middle	3 840.00	18.002
		High	3 970.00	18.007
256QAM	Low	3 710.00	18.225	
	Middle	3 840.00	18.235	
	High	3 970.00	18.218	
37	QPSK	Low	3 710.00	18.288
		Middle	3 840.00	18.319
		High	3 970.00	18.340
	16QAM	Low	3 710.00	18.378
		Middle	3 840.00	18.281
		High	3 970.00	18.273
	64QAM	Low	3 710.00	18.019
		Middle	3 840.00	18.008
		High	3 970.00	18.001
256QAM	Low	3 710.00	18.264	
	Middle	3 840.00	18.241	
	High	3 970.00	18.228	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
38	QPSK	Low	3 710.00	18.301
		Middle	3 840.00	18.309
		High	3 970.00	18.324
	16QAM	Low	3 710.00	18.365
		Middle	3 840.00	18.290
		High	3 970.00	18.270
	64QAM	Low	3 710.00	18.017
		Middle	3 840.00	18.004
		High	3 970.00	18.000
256QAM	Low	3 710.00	18.260	
	Middle	3 840.00	18.238	
	High	3 970.00	18.210	
39	QPSK	Low	3 710.00	18.306
		Middle	3 840.00	18.310
		High	3 970.00	18.261
	16QAM	Low	3 710.00	18.369
		Middle	3 840.00	18.276
		High	3 970.00	18.262
	64QAM	Low	3 710.00	18.018
		Middle	3 840.00	18.006
		High	3 970.00	18.000
256QAM	Low	3 710.00	18.264	
	Middle	3 840.00	18.221	
	High	3 970.00	18.226	
40	QPSK	Low	3 710.00	18.292
		Middle	3 840.00	18.317
		High	3 970.00	18.274
	16QAM	Low	3 710.00	18.363
		Middle	3 840.00	18.282
		High	3 970.00	18.265
	64QAM	Low	3 710.00	18.019
		Middle	3 840.00	18.008
		High	3 970.00	18.002
256QAM	Low	3 710.00	18.233	
	Middle	3 840.00	18.218	
	High	3 970.00	18.230	



Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
41	QPSK	Low	3 710.00	18.302
		Middle	3 840.00	18.313
		High	3 970.00	18.270
	16QAM	Low	3 710.00	18.371
		Middle	3 840.00	18.286
		High	3 970.00	18.275
	64QAM	Low	3 710.00	18.020
		Middle	3 840.00	18.004
		High	3 970.00	18.001
256QAM	Low	3 710.00	18.263	
	Middle	3 840.00	18.236	
	High	3 970.00	18.227	
42	QPSK	Low	3 710.00	18.294
		Middle	3 840.00	18.294
		High	3 970.00	18.329
	16QAM	Low	3 710.00	18.385
		Middle	3 840.00	18.285
		High	3 970.00	18.270
	64QAM	Low	3 710.00	18.021
		Middle	3 840.00	18.008
		High	3 970.00	18.001
256QAM	Low	3 710.00	18.278	
	Middle	3 840.00	18.241	
	High	3 970.00	18.227	
43	QPSK	Low	3 710.00	18.290
		Middle	3 840.00	18.311
		High	3 970.00	18.303
	16QAM	Low	3 710.00	18.370
		Middle	3 840.00	18.275
		High	3 970.00	18.275
	64QAM	Low	3 710.00	18.016
		Middle	3 840.00	18.007
		High	3 970.00	18.008
256QAM	Low	3 710.00	18.221	
	Middle	3 840.00	18.220	
	High	3 970.00	18.232	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
44	QPSK	Low	3 710.00	18.307
		Middle	3 840.00	18.320
		High	3 970.00	18.276
	16QAM	Low	3 710.00	18.381
		Middle	3 840.00	18.297
		High	3 970.00	18.275
	64QAM	Low	3 710.00	18.020
		Middle	3 840.00	18.010
		High	3 970.00	18.005
256QAM	Low	3 710.00	18.262	
	Middle	3 840.00	18.244	
	High	3 970.00	18.232	
45	QPSK	Low	3 710.00	18.290
		Middle	3 840.00	18.296
		High	3 970.00	18.267
	16QAM	Low	3 710.00	18.366
		Middle	3 840.00	18.295
		High	3 970.00	18.270
	64QAM	Low	3 710.00	18.017
		Middle	3 840.00	18.009
		High	3 970.00	18.001
256QAM	Low	3 710.00	18.259	
	Middle	3 840.00	18.243	
	High	3 970.00	18.228	
46	QPSK	Low	3 710.00	18.306
		Middle	3 840.00	18.288
		High	3 970.00	18.260
	16QAM	Low	3 710.00	18.344
		Middle	3 840.00	18.279
		High	3 970.00	18.265
	64QAM	Low	3 710.00	18.018
		Middle	3 840.00	18.006
		High	3 970.00	18.001
256QAM	Low	3 710.00	18.244	
	Middle	3 840.00	18.238	
	High	3 970.00	18.226	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
47	QPSK	Low	3 710.00	18.312
		Middle	3 840.00	18.319
		High	3 970.00	18.272
	16QAM	Low	3 710.00	18.391
		Middle	3 840.00	18.299
		High	3 970.00	18.276
	64QAM	Low	3 710.00	18.022
		Middle	3 840.00	18.009
		High	3 970.00	18.003
256QAM	Low	3 710.00	18.255	
	Middle	3 840.00	18.229	
	High	3 970.00	18.218	
48	QPSK	Low	3 710.00	18.304
		Middle	3 840.00	18.272
		High	3 970.00	18.267
	16QAM	Low	3 710.00	18.363
		Middle	3 840.00	18.266
		High	3 970.00	18.271
	64QAM	Low	3 710.00	18.019
		Middle	3 840.00	17.998
		High	3 970.00	18.000
256QAM	Low	3 710.00	18.261	
	Middle	3 840.00	18.211	
	High	3 970.00	18.210	
49	QPSK	Low	3 710.00	18.289
		Middle	3 840.00	18.315
		High	3 970.00	18.263
	16QAM	Low	3 710.00	18.352
		Middle	3 840.00	18.292
		High	3 970.00	18.267
	64QAM	Low	3 710.00	18.019
		Middle	3 840.00	18.006
		High	3 970.00	18.001
256QAM	Low	3 710.00	18.257	
	Middle	3 840.00	18.240	
	High	3 970.00	18.228	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
50	QPSK	Low	3 710.00	18.289
		Middle	3 840.00	18.299
		High	3 970.00	18.266
	16QAM	Low	3 710.00	18.375
		Middle	3 840.00	18.288
		High	3 970.00	18.270
	64QAM	Low	3 710.00	18.019
		Middle	3 840.00	18.012
		High	3 970.00	18.002
256QAM	Low	3 710.00	18.235	
	Middle	3 840.00	18.245	
	High	3 970.00	18.213	
51	QPSK	Low	3 710.00	18.292
		Middle	3 840.00	18.353
		High	3 970.00	18.355
	16QAM	Low	3 710.00	18.374
		Middle	3 840.00	18.288
		High	3 970.00	18.274
	64QAM	Low	3 710.00	18.018
		Middle	3 840.00	18.010
		High	3 970.00	18.008
256QAM	Low	3 710.00	18.256	
	Middle	3 840.00	18.240	
	High	3 970.00	18.232	
52	QPSK	Low	3 710.00	18.288
		Middle	3 840.00	18.323
		High	3 970.00	18.285
	16QAM	Low	3 710.00	18.359
		Middle	3 840.00	18.283
		High	3 970.00	18.274
	64QAM	Low	3 710.00	18.016
		Middle	3 840.00	18.009
		High	3 970.00	18.005
256QAM	Low	3 710.00	18.250	
	Middle	3 840.00	18.241	
	High	3 970.00	18.231	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
53	QPSK	Low	3 710.00	18.295
		Middle	3 840.00	18.284
		High	3 970.00	18.264
	16QAM	Low	3 710.00	18.360
		Middle	3 840.00	18.271
		High	3 970.00	18.269
	64QAM	Low	3 710.00	18.020
		Middle	3 840.00	18.004
		High	3 970.00	18.002
256QAM	Low	3 710.00	18.262	
	Middle	3 840.00	18.233	
	High	3 970.00	18.228	
54	QPSK	Low	3 710.00	18.289
		Middle	3 840.00	18.298
		High	3 970.00	18.347
	16QAM	Low	3 710.00	18.359
		Middle	3 840.00	18.294
		High	3 970.00	18.272
	64QAM	Low	3 710.00	18.015
		Middle	3 840.00	18.011
		High	3 970.00	18.003
256QAM	Low	3 710.00	18.253	
	Middle	3 840.00	18.226	
	High	3 970.00	18.229	
55	QPSK	Low	3 710.00	18.293
		Middle	3 840.00	18.285
		High	3 970.00	18.354
	16QAM	Low	3 710.00	18.353
		Middle	3 840.00	18.282
		High	3 970.00	18.276
	64QAM	Low	3 710.00	18.019
		Middle	3 840.00	18.005
		High	3 970.00	18.007
256QAM	Low	3 710.00	18.271	
	Middle	3 840.00	18.235	
	High	3 970.00	18.236	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
56	QPSK	Low	3 710.00	18.287
		Middle	3 840.00	18.288
		High	3 970.00	18.358
	16QAM	Low	3 710.00	18.343
		Middle	3 840.00	18.278
		High	3 970.00	18.279
	64QAM	Low	3 710.00	18.018
		Middle	3 840.00	18.007
		High	3 970.00	18.005
256QAM	Low	3 710.00	18.252	
	Middle	3 840.00	18.220	
	High	3 970.00	18.234	
57	QPSK	Low	3 710.00	18.302
		Middle	3 840.00	18.310
		High	3 970.00	18.312
	16QAM	Low	3 710.00	18.370
		Middle	3 840.00	18.288
		High	3 970.00	18.272
	64QAM	Low	3 710.00	18.020
		Middle	3 840.00	18.006
		High	3 970.00	17.998
256QAM	Low	3 710.00	18.241	
	Middle	3 840.00	18.221	
	High	3 970.00	18.227	
58	QPSK	Low	3 710.00	18.303
		Middle	3 840.00	18.292
		High	3 970.00	18.299
	16QAM	Low	3 710.00	18.340
		Middle	3 840.00	18.281
		High	3 970.00	18.274
	64QAM	Low	3 710.00	18.017
		Middle	3 840.00	18.011
		High	3 970.00	18.006
256QAM	Low	3 710.00	18.250	
	Middle	3 840.00	18.239	
	High	3 970.00	18.233	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
59	QPSK	Low	3 710.00	18.304
		Middle	3 840.00	18.289
		High	3 970.00	18.279
	16QAM	Low	3 710.00	18.364
		Middle	3 840.00	18.277
		High	3 970.00	18.281
	64QAM	Low	3 710.00	18.018
		Middle	3 840.00	18.006
		High	3 970.00	18.005
256QAM	Low	3 710.00	18.233	
	Middle	3 840.00	18.221	
	High	3 970.00	18.217	
60	QPSK	Low	3 710.00	18.292
		Middle	3 840.00	18.292
		High	3 970.00	18.282
	16QAM	Low	3 710.00	18.374
		Middle	3 840.00	18.277
		High	3 970.00	18.273
	64QAM	Low	3 710.00	18.019
		Middle	3 840.00	18.008
		High	3 970.00	18.004
256QAM	Low	3 710.00	18.257	
	Middle	3 840.00	18.240	
	High	3 970.00	18.213	
61	QPSK	Low	3 710.00	18.306
		Middle	3 840.00	18.291
		High	3 970.00	18.355
	16QAM	Low	3 710.00	18.392
		Middle	3 840.00	18.286
		High	3 970.00	18.279
	64QAM	Low	3 710.00	18.021
		Middle	3 840.00	18.008
		High	3 970.00	18.005
256QAM	Low	3 710.00	18.248	
	Middle	3 840.00	18.224	
	High	3 970.00	18.217	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
62	QPSK	Low	3 710.00	18.303
		Middle	3 840.00	18.324
		High	3 970.00	18.305
	16QAM	Low	3 710.00	18.345
		Middle	3 840.00	18.291
		High	3 970.00	18.284
	64QAM	Low	3 710.00	18.015
		Middle	3 840.00	18.010
		High	3 970.00	18.010
256QAM	Low	3 710.00	18.261	
	Middle	3 840.00	18.243	
	High	3 970.00	18.236	
63	QPSK	Low	3 710.00	18.290
		Middle	3 840.00	18.318
		High	3 970.00	18.350
	16QAM	Low	3 710.00	18.362
		Middle	3 840.00	18.295
		High	3 970.00	18.276
	64QAM	Low	3 710.00	18.019
		Middle	3 840.00	18.012
		High	3 970.00	18.005
256QAM	Low	3 710.00	18.254	
	Middle	3 840.00	18.243	
	High	3 970.00	18.231	



## (64 Port) 5G NR n77 40 MHz [1 Carrier]

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	3 720.00	37.931
		Middle	3 840.00	37.938
		High	3 960.00	37.920
	16QAM	Low	3 720.00	37.759
		Middle	3 840.00	37.771
		High	3 960.00	37.747
	64QAM	Low	3 720.00	37.908
		Middle	3 840.00	37.995
		High	3 960.00	38.047
	256QAM	Low	3 720.00	37.827
		Middle	3 840.00	37.806
		High	3 960.00	37.815
1	QPSK	Low	3 720.00	37.940
		Middle	3 840.00	37.933
		High	3 960.00	37.833
	16QAM	Low	3 720.00	37.772
		Middle	3 840.00	37.762
		High	3 960.00	37.678
	64QAM	Low	3 720.00	37.918
		Middle	3 840.00	38.011
		High	3 960.00	38.003
	256QAM	Low	3 720.00	37.808
		Middle	3 840.00	37.801
		High	3 960.00	37.796

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
2	QPSK	Low	3 720.00	37.996
		Middle	3 840.00	37.979
		High	3 960.00	37.863
	16QAM	Low	3 720.00	37.738
		Middle	3 840.00	37.765
		High	3 960.00	37.732
	64QAM	Low	3 720.00	37.920
		Middle	3 840.00	38.007
		High	3 960.00	38.011
256QAM	Low	3 720.00	37.819	
	Middle	3 840.00	37.808	
	High	3 960.00	37.795	
3	QPSK	Low	3 720.00	37.937
		Middle	3 840.00	37.935
		High	3 960.00	37.839
	16QAM	Low	3 720.00	37.770
		Middle	3 840.00	37.731
		High	3 960.00	37.706
	64QAM	Low	3 720.00	37.961
		Middle	3 840.00	38.023
		High	3 960.00	38.046
256QAM	Low	3 720.00	37.837	
	Middle	3 840.00	37.823	
	High	3 960.00	37.816	
4	QPSK	Low	3 720.00	37.958
		Middle	3 840.00	37.953
		High	3 960.00	37.894
	16QAM	Low	3 720.00	37.782
		Middle	3 840.00	37.745
		High	3 960.00	37.754
	64QAM	Low	3 720.00	37.947
		Middle	3 840.00	38.020
		High	3 960.00	38.041
256QAM	Low	3 720.00	37.834	
	Middle	3 840.00	37.831	
	High	3 960.00	37.816	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
5	QPSK	Low	3 720.00	37.974
		Middle	3 840.00	37.940
		High	3 960.00	37.913
	16QAM	Low	3 720.00	37.719
		Middle	3 840.00	37.765
		High	3 960.00	37.719
	64QAM	Low	3 720.00	37.914
		Middle	3 840.00	38.010
		High	3 960.00	38.045
256QAM	Low	3 720.00	37.826	
	Middle	3 840.00	37.810	
	High	3 960.00	37.819	
6	QPSK	Low	3 720.00	37.981
		Middle	3 840.00	37.971
		High	3 960.00	37.838
	16QAM	Low	3 720.00	37.725
		Middle	3 840.00	37.767
		High	3 960.00	37.681
	64QAM	Low	3 720.00	37.914
		Middle	3 840.00	38.013
		High	3 960.00	38.014
256QAM	Low	3 720.00	37.818	
	Middle	3 840.00	37.808	
	High	3 960.00	37.798	
7	QPSK	Low	3 720.00	37.941
		Middle	3 840.00	37.921
		High	3 960.00	37.840
	16QAM	Low	3 720.00	37.772
		Middle	3 840.00	37.758
		High	3 960.00	37.687
	64QAM	Low	3 720.00	37.932
		Middle	3 840.00	38.007
		High	3 960.00	38.017
256QAM	Low	3 720.00	37.808	
	Middle	3 840.00	37.806	
	High	3 960.00	37.801	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
8	QPSK	Low	3 720.00	37.938
		Middle	3 840.00	37.984
		High	3 960.00	37.850
	16QAM	Low	3 720.00	37.724
		Middle	3 840.00	37.738
		High	3 960.00	37.689
	64QAM	Low	3 720.00	37.935
		Middle	3 840.00	38.014
		High	3 960.00	38.025
256QAM	Low	3 720.00	37.799	
	Middle	3 840.00	37.821	
	High	3 960.00	37.810	
9	QPSK	Low	3 720.00	37.977
		Middle	3 840.00	37.938
		High	3 960.00	37.845
	16QAM	Low	3 720.00	37.721
		Middle	3 840.00	37.728
		High	3 960.00	37.687
	64QAM	Low	3 720.00	37.905
		Middle	3 840.00	37.947
		High	3 960.00	38.018
256QAM	Low	3 720.00	37.799	
	Middle	3 840.00	37.778	
	High	3 960.00	37.809	
10	QPSK	Low	3 720.00	37.942
		Middle	3 840.00	37.941
		High	3 960.00	37.847
	16QAM	Low	3 720.00	37.727
		Middle	3 840.00	37.773
		High	3 960.00	37.717
	64QAM	Low	3 720.00	37.922
		Middle	3 840.00	38.004
		High	3 960.00	38.025
256QAM	Low	3 720.00	37.841	
	Middle	3 840.00	37.800	
	High	3 960.00	37.812	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
11	QPSK	Low	3 720.00	38.003
		Middle	3 840.00	37.974
		High	3 960.00	37.867
	16QAM	Low	3 720.00	37.783
		Middle	3 840.00	37.759
		High	3 960.00	37.730
	64QAM	Low	3 720.00	37.935
		Middle	3 840.00	37.997
		High	3 960.00	38.031
256QAM	Low	3 720.00	37.831	
	Middle	3 840.00	37.802	
	High	3 960.00	37.807	
12	QPSK	Low	3 720.00	37.983
		Middle	3 840.00	37.931
		High	3 960.00	37.832
	16QAM	Low	3 720.00	37.765
		Middle	3 840.00	37.726
		High	3 960.00	37.705
	64QAM	Low	3 720.00	37.921
		Middle	3 840.00	37.990
		High	3 960.00	38.016
256QAM	Low	3 720.00	37.831	
	Middle	3 840.00	37.797	
	High	3 960.00	37.800	
13	QPSK	Low	3 720.00	37.928
		Middle	3 840.00	37.944
		High	3 960.00	37.868
	16QAM	Low	3 720.00	37.756
		Middle	3 840.00	37.731
		High	3 960.00	37.707
	64QAM	Low	3 720.00	37.913
		Middle	3 840.00	37.976
		High	3 960.00	38.026
256QAM	Low	3 720.00	37.798	
	Middle	3 840.00	37.809	
	High	3 960.00	37.817	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
14	QPSK	Low	3 720.00	38.007
		Middle	3 840.00	37.948
		High	3 960.00	37.883
	16QAM	Low	3 720.00	37.749
		Middle	3 840.00	37.778
		High	3 960.00	37.714
	64QAM	Low	3 720.00	37.951
		Middle	3 840.00	38.009
		High	3 960.00	38.015
256QAM	Low	3 720.00	37.838	
	Middle	3 840.00	37.825	
	High	3 960.00	37.810	
15	QPSK	Low	3 720.00	37.934
		Middle	3 840.00	37.979
		High	3 960.00	37.918
	16QAM	Low	3 720.00	37.722
		Middle	3 840.00	37.731
		High	3 960.00	37.704
	64QAM	Low	3 720.00	37.929
		Middle	3 840.00	37.954
		High	3 960.00	38.036
256QAM	Low	3 720.00	37.835	
	Middle	3 840.00	37.805	
	High	3 960.00	37.818	
16	QPSK	Low	3 720.00	37.943
		Middle	3 840.00	37.947
		High	3 960.00	37.882
	16QAM	Low	3 720.00	37.778
		Middle	3 840.00	37.781
		High	3 960.00	37.710
	64QAM	Low	3 720.00	37.929
		Middle	3 840.00	38.029
		High	3 960.00	38.041
256QAM	Low	3 720.00	37.843	
	Middle	3 840.00	37.818	
	High	3 960.00	37.826	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
17	QPSK	Low	3 720.00	37.969
		Middle	3 840.00	37.928
		High	3 960.00	37.903
	16QAM	Low	3 720.00	37.759
		Middle	3 840.00	37.726
		High	3 960.00	37.700
	64QAM	Low	3 720.00	37.902
		Middle	3 840.00	37.971
		High	3 960.00	38.029
256QAM	Low	3 720.00	37.790	
	Middle	3 840.00	37.791	
	High	3 960.00	37.821	
18	QPSK	Low	3 720.00	37.982
		Middle	3 840.00	37.975
		High	3 960.00	37.818
	16QAM	Low	3 720.00	37.732
		Middle	3 840.00	37.759
		High	3 960.00	37.683
	64QAM	Low	3 720.00	37.924
		Middle	3 840.00	38.020
		High	3 960.00	38.031
256QAM	Low	3 720.00	37.803	
	Middle	3 840.00	37.815	
	High	3 960.00	37.803	
19	QPSK	Low	3 720.00	37.979
		Middle	3 840.00	37.976
		High	3 960.00	37.865
	16QAM	Low	3 720.00	37.768
		Middle	3 840.00	37.763
		High	3 960.00	37.722
	64QAM	Low	3 720.00	37.913
		Middle	3 840.00	37.967
		High	3 960.00	38.019
256QAM	Low	3 720.00	37.828	
	Middle	3 840.00	37.805	
	High	3 960.00	37.809	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
20	QPSK	Low	3 720.00	37.937
		Middle	3 840.00	37.932
		High	3 960.00	37.849
	16QAM	Low	3 720.00	37.769
		Middle	3 840.00	37.717
		High	3 960.00	37.705
	64QAM	Low	3 720.00	37.943
		Middle	3 840.00	38.019
		High	3 960.00	38.033
256QAM	Low	3 720.00	37.813	
	Middle	3 840.00	37.812	
	High	3 960.00	37.814	
21	QPSK	Low	3 720.00	37.999
		Middle	3 840.00	37.983
		High	3 960.00	37.917
	16QAM	Low	3 720.00	37.788
		Middle	3 840.00	37.775
		High	3 960.00	37.701
	64QAM	Low	3 720.00	37.949
		Middle	3 840.00	37.987
		High	3 960.00	38.022
256QAM	Low	3 720.00	37.842	
	Middle	3 840.00	37.807	
	High	3 960.00	37.809	
22	QPSK	Low	3 720.00	37.937
		Middle	3 840.00	37.929
		High	3 960.00	37.835
	16QAM	Low	3 720.00	37.758
		Middle	3 840.00	37.763
		High	3 960.00	37.704
	64QAM	Low	3 720.00	37.916
		Middle	3 840.00	37.978
		High	3 960.00	38.016
256QAM	Low	3 720.00	37.798	
	Middle	3 840.00	37.804	
	High	3 960.00	37.802	



Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
23	QPSK	Low	3 720.00	37.954
		Middle	3 840.00	37.943
		High	3 960.00	37.876
	16QAM	Low	3 720.00	37.785
		Middle	3 840.00	37.772
		High	3 960.00	37.700
	64QAM	Low	3 720.00	37.961
		Middle	3 840.00	38.015
		High	3 960.00	38.028
256QAM	Low	3 720.00	37.832	
	Middle	3 840.00	37.827	
	High	3 960.00	37.804	
24	QPSK	Low	3 720.00	37.951
		Middle	3 840.00	37.990
		High	3 960.00	37.845
	16QAM	Low	3 720.00	37.737
		Middle	3 840.00	37.745
		High	3 960.00	37.708
	64QAM	Low	3 720.00	37.929
		Middle	3 840.00	38.022
		High	3 960.00	38.018
256QAM	Low	3 720.00	37.845	
	Middle	3 840.00	37.832	
	High	3 960.00	37.802	
25	QPSK	Low	3 720.00	37.939
		Middle	3 840.00	37.940
		High	3 960.00	37.854
	16QAM	Low	3 720.00	37.727
		Middle	3 840.00	37.773
		High	3 960.00	37.724
	64QAM	Low	3 720.00	37.929
		Middle	3 840.00	38.002
		High	3 960.00	38.033
256QAM	Low	3 720.00	37.809	
	Middle	3 840.00	37.820	
	High	3 960.00	37.820	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
26	QPSK	Low	3 720.00	37.935
		Middle	3 840.00	37.978
		High	3 960.00	37.895
	16QAM	Low	3 720.00	37.770
		Middle	3 840.00	37.771
		High	3 960.00	37.710
	64QAM	Low	3 720.00	37.909
		Middle	3 840.00	38.002
		High	3 960.00	37.995
256QAM	Low	3 720.00	37.801	
	Middle	3 840.00	37.808	
	High	3 960.00	37.783	
27	QPSK	Low	3 720.00	37.985
		Middle	3 840.00	37.941
		High	3 960.00	37.823
	16QAM	Low	3 720.00	37.727
		Middle	3 840.00	37.742
		High	3 960.00	37.683
	64QAM	Low	3 720.00	37.915
		Middle	3 840.00	38.033
		High	3 960.00	38.014
256QAM	Low	3 720.00	37.809	
	Middle	3 840.00	37.833	
	High	3 960.00	37.790	
28	QPSK	Low	3 720.00	37.925
		Middle	3 840.00	37.973
		High	3 960.00	37.885
	16QAM	Low	3 720.00	37.752
		Middle	3 840.00	37.758
		High	3 960.00	37.684
	64QAM	Low	3 720.00	37.907
		Middle	3 840.00	37.983
		High	3 960.00	38.007
256QAM	Low	3 720.00	37.810	
	Middle	3 840.00	37.795	
	High	3 960.00	37.795	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
29	QPSK	Low	3 720.00	37.933
		Middle	3 840.00	37.951
		High	3 960.00	37.869
	16QAM	Low	3 720.00	37.713
		Middle	3 840.00	37.776
		High	3 960.00	37.701
	64QAM	Low	3 720.00	37.906
		Middle	3 840.00	37.999
		High	3 960.00	38.027
256QAM	Low	3 720.00	37.802	
	Middle	3 840.00	37.825	
	High	3 960.00	37.810	
30	QPSK	Low	3 720.00	37.939
		Middle	3 840.00	37.979
		High	3 960.00	37.834
	16QAM	Low	3 720.00	37.721
		Middle	3 840.00	37.734
		High	3 960.00	37.707
	64QAM	Low	3 720.00	37.910
		Middle	3 840.00	38.011
		High	3 960.00	38.013
256QAM	Low	3 720.00	37.796	
	Middle	3 840.00	37.821	
	High	3 960.00	37.793	
31	QPSK	Low	3 720.00	37.973
		Middle	3 840.00	37.934
		High	3 960.00	37.862
	16QAM	Low	3 720.00	37.714
		Middle	3 840.00	37.758
		High	3 960.00	37.665
	64QAM	Low	3 720.00	37.904
		Middle	3 840.00	37.974
		High	3 960.00	37.993
256QAM	Low	3 720.00	37.813	
	Middle	3 840.00	37.809	
	High	3 960.00	37.777	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
32	QPSK	Low	3 720.00	37.924
		Middle	3 840.00	37.951
		High	3 960.00	37.909
	16QAM	Low	3 720.00	37.704
		Middle	3 840.00	37.736
		High	3 960.00	37.726
	64QAM	Low	3 720.00	37.890
		Middle	3 840.00	37.948
		High	3 960.00	38.003
256QAM	Low	3 720.00	37.802	
	Middle	3 840.00	37.788	
	High	3 960.00	37.788	
33	QPSK	Low	3 720.00	37.951
		Middle	3 840.00	37.937
		High	3 960.00	37.839
	16QAM	Low	3 720.00	37.738
		Middle	3 840.00	37.771
		High	3 960.00	37.690
	64QAM	Low	3 720.00	37.944
		Middle	3 840.00	38.026
		High	3 960.00	38.022
256QAM	Low	3 720.00	37.848	
	Middle	3 840.00	37.818	
	High	3 960.00	37.806	
34	QPSK	Low	3 720.00	37.958
		Middle	3 840.00	37.929
		High	3 960.00	37.864
	16QAM	Low	3 720.00	37.790
		Middle	3 840.00	37.759
		High	3 960.00	37.687
	64QAM	Low	3 720.00	37.990
		Middle	3 840.00	38.020
		High	3 960.00	38.019
256QAM	Low	3 720.00	37.841	
	Middle	3 840.00	37.823	
	High	3 960.00	37.804	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
35	QPSK	Low	3 720.00	37.940
		Middle	3 840.00	37.938
		High	3 960.00	37.856
	16QAM	Low	3 720.00	37.720
		Middle	3 840.00	37.763
		High	3 960.00	37.697
	64QAM	Low	3 720.00	37.923
		Middle	3 840.00	37.994
		High	3 960.00	38.026
256QAM	Low	3 720.00	37.833	
	Middle	3 840.00	37.800	
	High	3 960.00	37.809	
36	QPSK	Low	3 720.00	37.956
		Middle	3 840.00	37.938
		High	3 960.00	37.856
	16QAM	Low	3 720.00	37.740
		Middle	3 840.00	37.768
		High	3 960.00	37.740
	64QAM	Low	3 720.00	37.972
		Middle	3 840.00	38.013
		High	3 960.00	38.032
256QAM	Low	3 720.00	37.835	
	Middle	3 840.00	37.823	
	High	3 960.00	37.818	
37	QPSK	Low	3 720.00	37.970
		Middle	3 840.00	37.973
		High	3 960.00	37.849
	16QAM	Low	3 720.00	37.752
		Middle	3 840.00	37.769
		High	3 960.00	37.696
	64QAM	Low	3 720.00	37.913
		Middle	3 840.00	37.977
		High	3 960.00	38.040
256QAM	Low	3 720.00	37.793	
	Middle	3 840.00	37.815	
	High	3 960.00	37.816	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
38	QPSK	Low	3 720.00	37.966
		Middle	3 840.00	37.935
		High	3 960.00	37.852
	16QAM	Low	3 720.00	37.710
		Middle	3 840.00	37.767
		High	3 960.00	37.688
	64QAM	Low	3 720.00	37.910
		Middle	3 840.00	37.987
		High	3 960.00	38.023
256QAM	Low	3 720.00	37.781	
	Middle	3 840.00	37.796	
	High	3 960.00	37.801	
39	QPSK	Low	3 720.00	37.941
		Middle	3 840.00	37.940
		High	3 960.00	37.821
	16QAM	Low	3 720.00	37.730
		Middle	3 840.00	37.736
		High	3 960.00	37.673
	64QAM	Low	3 720.00	37.945
		Middle	3 840.00	38.004
		High	3 960.00	38.001
256QAM	Low	3 720.00	37.811	
	Middle	3 840.00	37.820	
	High	3 960.00	37.787	
40	QPSK	Low	3 720.00	37.931
		Middle	3 840.00	37.983
		High	3 960.00	37.842
	16QAM	Low	3 720.00	37.714
		Middle	3 840.00	37.767
		High	3 960.00	37.684
	64QAM	Low	3 720.00	37.912
		Middle	3 840.00	38.010
		High	3 960.00	38.033
256QAM	Low	3 720.00	37.799	
	Middle	3 840.00	37.821	
	High	3 960.00	37.813	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
41	QPSK	Low	3 720.00	37.971
		Middle	3 840.00	37.980
		High	3 960.00	37.848
	16QAM	Low	3 720.00	37.707
		Middle	3 840.00	37.762
		High	3 960.00	37.713
	64QAM	Low	3 720.00	37.895
		Middle	3 840.00	37.995
		High	3 960.00	38.043
256QAM	Low	3 720.00	37.806	
	Middle	3 840.00	37.797	
	High	3 960.00	37.823	
42	QPSK	Low	3 720.00	37.944
		Middle	3 840.00	37.939
		High	3 960.00	37.853
	16QAM	Low	3 720.00	37.765
		Middle	3 840.00	37.732
		High	3 960.00	37.710
	64QAM	Low	3 720.00	37.923
		Middle	3 840.00	37.941
		High	3 960.00	38.005
256QAM	Low	3 720.00	37.807	
	Middle	3 840.00	37.806	
	High	3 960.00	37.795	
43	QPSK	Low	3 720.00	37.999
		Middle	3 840.00	37.927
		High	3 960.00	37.891
	16QAM	Low	3 720.00	37.780
		Middle	3 840.00	37.724
		High	3 960.00	37.716
	64QAM	Low	3 720.00	37.952
		Middle	3 840.00	38.014
		High	3 960.00	38.017
256QAM	Low	3 720.00	37.847	
	Middle	3 840.00	37.820	
	High	3 960.00	37.798	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
44	QPSK	Low	3 720.00	37.943
		Middle	3 840.00	37.935
		High	3 960.00	37.902
	16QAM	Low	3 720.00	37.727
		Middle	3 840.00	37.760
		High	3 960.00	37.729
	64QAM	Low	3 720.00	37.913
		Middle	3 840.00	37.979
		High	3 960.00	37.998
256QAM	Low	3 720.00	37.809	
	Middle	3 840.00	37.795	
	High	3 960.00	37.790	
45	QPSK	Low	3 720.00	37.932
		Middle	3 840.00	37.981
		High	3 960.00	37.875
	16QAM	Low	3 720.00	37.723
		Middle	3 840.00	37.734
		High	3 960.00	37.701
	64QAM	Low	3 720.00	37.910
		Middle	3 840.00	37.994
		High	3 960.00	38.023
256QAM	Low	3 720.00	37.804	
	Middle	3 840.00	37.819	
	High	3 960.00	37.801	
46	QPSK	Low	3 720.00	37.996
		Middle	3 840.00	37.983
		High	3 960.00	37.852
	16QAM	Low	3 720.00	37.781
		Middle	3 840.00	37.772
		High	3 960.00	37.707
	64QAM	Low	3 720.00	37.948
		Middle	3 840.00	38.023
		High	3 960.00	38.008
256QAM	Low	3 720.00	37.837	
	Middle	3 840.00	37.821	
	High	3 960.00	37.796	



Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
47	QPSK	Low	3 720.00	37.947
		Middle	3 840.00	37.991
		High	3 960.00	37.912
	16QAM	Low	3 720.00	37.738
		Middle	3 840.00	37.776
		High	3 960.00	37.700
	64QAM	Low	3 720.00	37.912
		Middle	3 840.00	37.962
		High	3 960.00	38.005
256QAM	Low	3 720.00	37.845	
	Middle	3 840.00	37.800	
	High	3 960.00	37.806	
48	QPSK	Low	3 720.00	37.940
		Middle	3 840.00	37.943
		High	3 960.00	37.866
	16QAM	Low	3 720.00	37.726
		Middle	3 840.00	37.745
		High	3 960.00	37.703
	64QAM	Low	3 720.00	37.922
		Middle	3 840.00	38.023
		High	3 960.00	38.040
256QAM	Low	3 720.00	37.819	
	Middle	3 840.00	37.826	
	High	3 960.00	37.817	
49	QPSK	Low	3 720.00	37.968
		Middle	3 840.00	37.927
		High	3 960.00	37.871
	16QAM	Low	3 720.00	37.755
		Middle	3 840.00	37.758
		High	3 960.00	37.668
	64QAM	Low	3 720.00	37.907
		Middle	3 840.00	37.991
		High	3 960.00	38.007
256QAM	Low	3 720.00	37.815	
	Middle	3 840.00	37.799	
	High	3 960.00	37.793	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
50	QPSK	Low	3 720.00	37.938
		Middle	3 840.00	37.919
		High	3 960.00	37.829
	16QAM	Low	3 720.00	37.768
		Middle	3 840.00	37.756
		High	3 960.00	37.712
	64QAM	Low	3 720.00	37.916
		Middle	3 840.00	37.994
		High	3 960.00	37.979
256QAM	Low	3 720.00	37.811	
	Middle	3 840.00	37.805	
	High	3 960.00	37.772	
51	QPSK	Low	3 720.00	37.979
		Middle	3 840.00	37.983
		High	3 960.00	37.858
	16QAM	Low	3 720.00	37.723
		Middle	3 840.00	37.769
		High	3 960.00	37.690
	64QAM	Low	3 720.00	37.951
		Middle	3 840.00	38.022
		High	3 960.00	38.024
256QAM	Low	3 720.00	37.835	
	Middle	3 840.00	37.828	
	High	3 960.00	37.808	
52	QPSK	Low	3 720.00	37.991
		Middle	3 840.00	37.960
		High	3 960.00	37.894
	16QAM	Low	3 720.00	37.730
		Middle	3 840.00	37.711
		High	3 960.00	37.708
	64QAM	Low	3 720.00	37.922
		Middle	3 840.00	38.001
		High	3 960.00	38.002
256QAM	Low	3 720.00	37.816	
	Middle	3 840.00	37.802	
	High	3 960.00	37.791	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
53	QPSK	Low	3 720.00	37.994
		Middle	3 840.00	37.932
		High	3 960.00	37.838
	16QAM	Low	3 720.00	37.738
		Middle	3 840.00	37.758
		High	3 960.00	37.695
	64QAM	Low	3 720.00	37.968
		Middle	3 840.00	37.981
		High	3 960.00	38.032
256QAM	Low	3 720.00	37.827	
	Middle	3 840.00	37.790	
	High	3 960.00	37.808	
54	QPSK	Low	3 720.00	37.985
		Middle	3 840.00	37.962
		High	3 960.00	37.835
	16QAM	Low	3 720.00	37.766
		Middle	3 840.00	37.707
		High	3 960.00	37.673
	64QAM	Low	3 720.00	37.938
		Middle	3 840.00	38.010
		High	3 960.00	38.003
256QAM	Low	3 720.00	37.841	
	Middle	3 840.00	37.803	
	High	3 960.00	37.793	
55	QPSK	Low	3 720.00	37.951
		Middle	3 840.00	37.936
		High	3 960.00	37.884
	16QAM	Low	3 720.00	37.780
		Middle	3 840.00	37.773
		High	3 960.00	37.722
	64QAM	Low	3 720.00	37.965
		Middle	3 840.00	38.016
		High	3 960.00	38.028
256QAM	Low	3 720.00	37.831	
	Middle	3 840.00	37.828	
	High	3 960.00	37.810	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
56	QPSK	Low	3 720.00	37.989
		Middle	3 840.00	37.932
		High	3 960.00	37.903
	16QAM	Low	3 720.00	37.727
		Middle	3 840.00	37.755
		High	3 960.00	37.695
	64QAM	Low	3 720.00	37.918
		Middle	3 840.00	37.993
		High	3 960.00	38.019
256QAM	Low	3 720.00	37.835	
	Middle	3 840.00	37.799	
	High	3 960.00	37.806	
57	QPSK	Low	3 720.00	37.970
		Middle	3 840.00	37.940
		High	3 960.00	37.898
	16QAM	Low	3 720.00	37.712
		Middle	3 840.00	37.762
		High	3 960.00	37.727
	64QAM	Low	3 720.00	37.896
		Middle	3 840.00	37.933
		High	3 960.00	37.998
256QAM	Low	3 720.00	37.808	
	Middle	3 840.00	37.801	
	High	3 960.00	37.798	
58	QPSK	Low	3 720.00	37.983
		Middle	3 840.00	37.936
		High	3 960.00	37.907
	16QAM	Low	3 720.00	37.767
		Middle	3 840.00	37.769
		High	3 960.00	37.695
	64QAM	Low	3 720.00	37.916
		Middle	3 840.00	38.015
		High	3 960.00	38.018
256QAM	Low	3 720.00	37.829	
	Middle	3 840.00	37.811	
	High	3 960.00	37.802	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
59	QPSK	Low	3 720.00	37.947
		Middle	3 840.00	37.940
		High	3 960.00	37.866
	16QAM	Low	3 720.00	37.732
		Middle	3 840.00	37.733
		High	3 960.00	37.740
	64QAM	Low	3 720.00	37.907
		Middle	3 840.00	38.008
		High	3 960.00	38.001
256QAM	Low	3 720.00	37.828	
	Middle	3 840.00	37.825	
	High	3 960.00	37.798	
60	QPSK	Low	3 720.00	37.975
		Middle	3 840.00	37.982
		High	3 960.00	37.889
	16QAM	Low	3 720.00	37.760
		Middle	3 840.00	37.772
		High	3 960.00	37.711
	64QAM	Low	3 720.00	37.912
		Middle	3 840.00	38.023
		High	3 960.00	38.030
256QAM	Low	3 720.00	37.823	
	Middle	3 840.00	37.832	
	High	3 960.00	37.808	
61	QPSK	Low	3 720.00	37.936
		Middle	3 840.00	37.941
		High	3 960.00	37.864
	16QAM	Low	3 720.00	37.762
		Middle	3 840.00	37.768
		High	3 960.00	37.719
	64QAM	Low	3 720.00	37.907
		Middle	3 840.00	38.004
		High	3 960.00	38.030
256QAM	Low	3 720.00	37.820	
	Middle	3 840.00	37.812	
	High	3 960.00	37.815	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
62	QPSK	Low	3 720.00	37.948
		Middle	3 840.00	37.971
		High	3 960.00	37.916
	16QAM	Low	3 720.00	37.776
		Middle	3 840.00	37.764
		High	3 960.00	37.706
	64QAM	Low	3 720.00	37.925
		Middle	3 840.00	37.999
		High	3 960.00	38.019
256QAM	Low	3 720.00	37.832	
	Middle	3 840.00	37.803	
	High	3 960.00	37.807	
63	QPSK	Low	3 720.00	37.947
		Middle	3 840.00	37.976
		High	3 960.00	37.865
	16QAM	Low	3 720.00	37.770
		Middle	3 840.00	37.731
		High	3 960.00	37.722
	64QAM	Low	3 720.00	37.918
		Middle	3 840.00	38.008
		High	3 960.00	38.017
256QAM	Low	3 720.00	37.831	
	Middle	3 840.00	37.816	
	High	3 960.00	37.794	

## (64 Port) 5G NR n77 80 MHz [1 Carrier]

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	3 740.00	77.273
		Middle	3 840.00	77.440
		High	3 940.00	77.391
	16QAM	Low	3 740.00	77.311
		Middle	3 840.00	77.330
		High	3 940.00	77.208
	64QAM	Low	3 740.00	77.692
		Middle	3 840.00	77.720
		High	3 940.00	77.552
	256QAM	Low	3 740.00	77.237
		Middle	3 840.00	77.222
		High	3 940.00	77.134
1	QPSK	Low	3 740.00	77.330
		Middle	3 840.00	77.475
		High	3 940.00	77.378
	16QAM	Low	3 740.00	77.281
		Middle	3 840.00	77.330
		High	3 940.00	77.228
	64QAM	Low	3 740.00	77.681
		Middle	3 840.00	77.696
		High	3 940.00	77.608
	256QAM	Low	3 740.00	77.205
		Middle	3 840.00	77.225
		High	3 940.00	77.168

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
2	QPSK	Low	3 740.00	77.262
		Middle	3 840.00	77.399
		High	3 940.00	77.426
	16QAM	Low	3 740.00	77.282
		Middle	3 840.00	77.327
		High	3 940.00	77.233
	64QAM	Low	3 740.00	77.668
		Middle	3 840.00	77.671
		High	3 940.00	77.575
256QAM	Low	3 740.00	77.188	
	Middle	3 840.00	77.221	
	High	3 940.00	77.140	
3	QPSK	Low	3 740.00	77.315
		Middle	3 840.00	77.479
		High	3 940.00	77.364
	16QAM	Low	3 740.00	77.326
		Middle	3 840.00	77.328
		High	3 940.00	77.193
	64QAM	Low	3 740.00	77.713
		Middle	3 840.00	77.735
		High	3 940.00	77.597
256QAM	Low	3 740.00	77.220	
	Middle	3 840.00	77.254	
	High	3 940.00	77.127	
4	QPSK	Low	3 740.00	77.303
		Middle	3 840.00	77.352
		High	3 940.00	77.351
	16QAM	Low	3 740.00	77.310
		Middle	3 840.00	77.289
		High	3 940.00	77.251
	64QAM	Low	3 740.00	77.652
		Middle	3 840.00	77.666
		High	3 940.00	77.582
256QAM	Low	3 740.00	77.222	
	Middle	3 840.00	77.190	
	High	3 940.00	77.149	



Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
5	QPSK	Low	3 740.00	77.284
		Middle	3 840.00	77.417
		High	3 940.00	77.345
	16QAM	Low	3 740.00	77.299
		Middle	3 840.00	77.278
		High	3 940.00	77.211
	64QAM	Low	3 740.00	77.601
		Middle	3 840.00	77.615
		High	3 940.00	77.543
256QAM	Low	3 740.00	77.226	
	Middle	3 840.00	77.187	
	High	3 940.00	77.113	
6	QPSK	Low	3 740.00	77.305
		Middle	3 840.00	77.410
		High	3 940.00	77.370
	16QAM	Low	3 740.00	77.320
		Middle	3 840.00	77.327
		High	3 940.00	77.214
	64QAM	Low	3 740.00	77.697
		Middle	3 840.00	77.707
		High	3 940.00	77.565
256QAM	Low	3 740.00	77.247	
	Middle	3 840.00	77.226	
	High	3 940.00	77.131	
7	QPSK	Low	3 740.00	77.345
		Middle	3 840.00	77.409
		High	3 940.00	77.422
	16QAM	Low	3 740.00	77.319
		Middle	3 840.00	77.314
		High	3 940.00	77.218
	64QAM	Low	3 740.00	77.697
		Middle	3 840.00	77.658
		High	3 940.00	77.561
256QAM	Low	3 740.00	77.217	
	Middle	3 840.00	77.225	
	High	3 940.00	77.159	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
8	QPSK	Low	3 740.00	77.350
		Middle	3 840.00	77.359
		High	3 940.00	77.382
	16QAM	Low	3 740.00	77.319
		Middle	3 840.00	77.304
		High	3 940.00	77.187
	64QAM	Low	3 740.00	77.657
		Middle	3 840.00	77.681
		High	3 940.00	77.516
256QAM	Low	3 740.00	77.239	
	Middle	3 840.00	77.202	
	High	3 940.00	77.109	
9	QPSK	Low	3 740.00	77.314
		Middle	3 840.00	77.325
		High	3 940.00	77.281
	16QAM	Low	3 740.00	77.299
		Middle	3 840.00	77.280
		High	3 940.00	77.160
	64QAM	Low	3 740.00	77.554
		Middle	3 840.00	77.670
		High	3 940.00	77.505
256QAM	Low	3 740.00	77.225	
	Middle	3 840.00	77.185	
	High	3 940.00	77.096	
10	QPSK	Low	3 740.00	77.305
		Middle	3 840.00	77.391
		High	3 940.00	77.399
	16QAM	Low	3 740.00	77.328
		Middle	3 840.00	77.322
		High	3 940.00	77.203
	64QAM	Low	3 740.00	77.704
		Middle	3 840.00	77.659
		High	3 940.00	77.537
256QAM	Low	3 740.00	77.207	
	Middle	3 840.00	77.239	
	High	3 940.00	77.121	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
11	QPSK	Low	3 740.00	77.268
		Middle	3 840.00	77.429
		High	3 940.00	77.362
	16QAM	Low	3 740.00	77.273
		Middle	3 840.00	77.293
		High	3 940.00	77.247
	64QAM	Low	3 740.00	77.557
		Middle	3 840.00	77.626
		High	3 940.00	77.570
256QAM	Low	3 740.00	77.150	
	Middle	3 840.00	77.209	
	High	3 940.00	77.167	
12	QPSK	Low	3 740.00	77.280
		Middle	3 840.00	77.447
		High	3 940.00	77.418
	16QAM	Low	3 740.00	77.317
		Middle	3 840.00	77.320
		High	3 940.00	77.231
	64QAM	Low	3 740.00	77.693
		Middle	3 840.00	77.713
		High	3 940.00	77.565
256QAM	Low	3 740.00	77.228	
	Middle	3 840.00	77.240	
	High	3 940.00	77.170	
13	QPSK	Low	3 740.00	77.324
		Middle	3 840.00	77.336
		High	3 940.00	77.341
	16QAM	Low	3 740.00	77.323
		Middle	3 840.00	77.320
		High	3 940.00	77.211
	64QAM	Low	3 740.00	77.545
		Middle	3 840.00	77.709
		High	3 940.00	77.602
256QAM	Low	3 740.00	77.197	
	Middle	3 840.00	77.197	
	High	3 940.00	77.124	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
14	QPSK	Low	3 740.00	77.333
		Middle	3 840.00	77.395
		High	3 940.00	77.395
	16QAM	Low	3 740.00	77.289
		Middle	3 840.00	77.335
		High	3 940.00	77.291
	64QAM	Low	3 740.00	77.683
		Middle	3 840.00	77.649
		High	3 940.00	77.660
256QAM	Low	3 740.00	77.153	
	Middle	3 840.00	77.230	
	High	3 940.00	77.186	
15	QPSK	Low	3 740.00	77.351
		Middle	3 840.00	77.352
		High	3 940.00	77.361
	16QAM	Low	3 740.00	77.352
		Middle	3 840.00	77.321
		High	3 940.00	77.218
	64QAM	Low	3 740.00	77.702
		Middle	3 840.00	77.704
		High	3 940.00	77.544
256QAM	Low	3 740.00	77.255	
	Middle	3 840.00	77.218	
	High	3 940.00	77.123	
16	QPSK	Low	3 740.00	77.357
		Middle	3 840.00	77.377
		High	3 940.00	77.410
	16QAM	Low	3 740.00	77.323
		Middle	3 840.00	77.281
		High	3 940.00	77.221
	64QAM	Low	3 740.00	77.651
		Middle	3 840.00	77.604
		High	3 940.00	77.559
256QAM	Low	3 740.00	77.229	
	Middle	3 840.00	77.185	
	High	3 940.00	77.126	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
17	QPSK	Low	3 740.00	77.274
		Middle	3 840.00	77.396
		High	3 940.00	77.343
	16QAM	Low	3 740.00	77.292
		Middle	3 840.00	77.316
		High	3 940.00	77.229
	64QAM	Low	3 740.00	77.673
		Middle	3 840.00	77.712
		High	3 940.00	77.610
256QAM	Low	3 740.00	77.209	
	Middle	3 840.00	77.226	
	High	3 940.00	77.120	
18	QPSK	Low	3 740.00	77.314
		Middle	3 840.00	77.418
		High	3 940.00	77.405
	16QAM	Low	3 740.00	77.230
		Middle	3 840.00	77.301
		High	3 940.00	77.237
	64QAM	Low	3 740.00	77.545
		Middle	3 840.00	77.691
		High	3 940.00	77.612
256QAM	Low	3 740.00	77.179	
	Middle	3 840.00	77.222	
	High	3 940.00	77.175	
19	QPSK	Low	3 740.00	77.344
		Middle	3 840.00	77.442
		High	3 940.00	77.362
	16QAM	Low	3 740.00	77.333
		Middle	3 840.00	77.313
		High	3 940.00	77.208
	64QAM	Low	3 740.00	77.611
		Middle	3 840.00	77.663
		High	3 940.00	77.591
256QAM	Low	3 740.00	77.217	
	Middle	3 840.00	77.214	
	High	3 940.00	77.132	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
20	QPSK	Low	3 740.00	77.343
		Middle	3 840.00	77.492
		High	3 940.00	77.449
	16QAM	Low	3 740.00	77.293
		Middle	3 840.00	77.324
		High	3 940.00	77.233
	64QAM	Low	3 740.00	77.685
		Middle	3 840.00	77.658
		High	3 940.00	77.559
256QAM	Low	3 740.00	77.178	
	Middle	3 840.00	77.238	
	High	3 940.00	77.133	
21	QPSK	Low	3 740.00	77.362
		Middle	3 840.00	77.355
		High	3 940.00	77.333
	16QAM	Low	3 740.00	77.329
		Middle	3 840.00	77.283
		High	3 940.00	77.210
	64QAM	Low	3 740.00	77.659
		Middle	3 840.00	77.676
		High	3 940.00	77.602
256QAM	Low	3 740.00	77.235	
	Middle	3 840.00	77.196	
	High	3 940.00	77.125	
22	QPSK	Low	3 740.00	77.258
		Middle	3 840.00	77.411
		High	3 940.00	77.367
	16QAM	Low	3 740.00	77.282
		Middle	3 840.00	77.305
		High	3 940.00	77.213
	64QAM	Low	3 740.00	77.532
		Middle	3 840.00	77.637
		High	3 940.00	77.554
256QAM	Low	3 740.00	77.196	
	Middle	3 840.00	77.211	
	High	3 940.00	77.121	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
23	QPSK	Low	3 740.00	77.318
		Middle	3 840.00	77.450
		High	3 940.00	77.347
	16QAM	Low	3 740.00	77.316
		Middle	3 840.00	77.290
		High	3 940.00	77.195
	64QAM	Low	3 740.00	77.663
		Middle	3 840.00	77.636
		High	3 940.00	77.574
256QAM	Low	3 740.00	77.201	
	Middle	3 840.00	77.212	
	High	3 940.00	77.137	
24	QPSK	Low	3 740.00	77.287
		Middle	3 840.00	77.424
		High	3 940.00	77.382
	16QAM	Low	3 740.00	77.241
		Middle	3 840.00	77.276
		High	3 940.00	77.219
	64QAM	Low	3 740.00	77.600
		Middle	3 840.00	77.667
		High	3 940.00	77.562
256QAM	Low	3 740.00	77.167	
	Middle	3 840.00	77.182	
	High	3 940.00	77.165	
25	QPSK	Low	3 740.00	77.348
		Middle	3 840.00	77.382
		High	3 940.00	77.349
	16QAM	Low	3 740.00	77.329
		Middle	3 840.00	77.327
		High	3 940.00	77.219
	64QAM	Low	3 740.00	77.692
		Middle	3 840.00	77.654
		High	3 940.00	77.599
256QAM	Low	3 740.00	77.227	
	Middle	3 840.00	77.238	
	High	3 940.00	77.120	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
26	QPSK	Low	3 740.00	77.288
		Middle	3 840.00	77.386
		High	3 940.00	77.378
	16QAM	Low	3 740.00	77.261
		Middle	3 840.00	77.295
		High	3 940.00	77.235
	64QAM	Low	3 740.00	77.520
		Middle	3 840.00	77.685
		High	3 940.00	77.615
256QAM	Low	3 740.00	77.179	
	Middle	3 840.00	77.221	
	High	3 940.00	77.150	
27	QPSK	Low	3 740.00	77.290
		Middle	3 840.00	77.499
		High	3 940.00	77.410
	16QAM	Low	3 740.00	77.256
		Middle	3 840.00	77.343
		High	3 940.00	77.206
	64QAM	Low	3 740.00	77.623
		Middle	3 840.00	77.671
		High	3 940.00	77.563
256QAM	Low	3 740.00	77.184	
	Middle	3 840.00	77.263	
	High	3 940.00	77.141	
28	QPSK	Low	3 740.00	77.262
		Middle	3 840.00	77.439
		High	3 940.00	77.406
	16QAM	Low	3 740.00	77.277
		Middle	3 840.00	77.289
		High	3 940.00	77.221
	64QAM	Low	3 740.00	77.551
		Middle	3 840.00	77.639
		High	3 940.00	77.598
256QAM	Low	3 740.00	77.206	
	Middle	3 840.00	77.209	
	High	3 940.00	77.124	



Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
29	QPSK	Low	3 740.00	77.246
		Middle	3 840.00	77.328
		High	3 940.00	77.380
	16QAM	Low	3 740.00	77.249
		Middle	3 840.00	77.277
		High	3 940.00	77.196
	64QAM	Low	3 740.00	77.517
		Middle	3 840.00	77.592
		High	3 940.00	77.512
256QAM	Low	3 740.00	77.131	
	Middle	3 840.00	77.182	
	High	3 940.00	77.132	
30	QPSK	Low	3 740.00	77.239
		Middle	3 840.00	77.435
		High	3 940.00	77.414
	16QAM	Low	3 740.00	77.180
		Middle	3 840.00	77.289
		High	3 940.00	77.210
	64QAM	Low	3 740.00	77.513
		Middle	3 840.00	77.635
		High	3 940.00	77.551
256QAM	Low	3 740.00	77.175	
	Middle	3 840.00	77.213	
	High	3 940.00	77.157	
31	QPSK	Low	3 740.00	77.287
		Middle	3 840.00	77.384
		High	3 940.00	77.357
	16QAM	Low	3 740.00	77.234
		Middle	3 840.00	77.320
		High	3 940.00	77.209
	64QAM	Low	3 740.00	77.645
		Middle	3 840.00	77.706
		High	3 940.00	77.550
256QAM	Low	3 740.00	77.161	
	Middle	3 840.00	77.215	
	High	3 940.00	77.131	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
32	QPSK	Low	3 740.00	77.216
		Middle	3 840.00	77.326
		High	3 940.00	77.344
	16QAM	Low	3 740.00	77.256
		Middle	3 840.00	77.306
		High	3 940.00	77.182
	64QAM	Low	3 740.00	77.536
		Middle	3 840.00	77.638
		High	3 940.00	77.510
256QAM	Low	3 740.00	77.169	
	Middle	3 840.00	77.216	
	High	3 940.00	77.086	
33	QPSK	Low	3 740.00	77.353
		Middle	3 840.00	77.419
		High	3 940.00	77.469
	16QAM	Low	3 740.00	77.290
		Middle	3 840.00	77.328
		High	3 940.00	77.241
	64QAM	Low	3 740.00	77.687
		Middle	3 840.00	77.691
		High	3 940.00	77.574
256QAM	Low	3 740.00	77.163	
	Middle	3 840.00	77.235	
	High	3 940.00	77.166	
34	QPSK	Low	3 740.00	77.313
		Middle	3 840.00	77.495
		High	3 940.00	77.413
	16QAM	Low	3 740.00	77.310
		Middle	3 840.00	77.288
		High	3 940.00	77.202
	64QAM	Low	3 740.00	77.651
		Middle	3 840.00	77.627
		High	3 940.00	77.592
256QAM	Low	3 740.00	77.170	
	Middle	3 840.00	77.202	
	High	3 940.00	77.138	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
35	QPSK	Low	3 740.00	77.329
		Middle	3 840.00	77.379
		High	3 940.00	77.425
	16QAM	Low	3 740.00	77.335
		Middle	3 840.00	77.311
		High	3 940.00	77.212
	64QAM	Low	3 740.00	77.611
		Middle	3 840.00	77.709
		High	3 940.00	77.598
256QAM	Low	3 740.00	77.235	
	Middle	3 840.00	77.222	
	High	3 940.00	77.159	
36	QPSK	Low	3 740.00	77.307
		Middle	3 840.00	77.429
		High	3 940.00	77.400
	16QAM	Low	3 740.00	77.306
		Middle	3 840.00	77.296
		High	3 940.00	77.229
	64QAM	Low	3 740.00	77.659
		Middle	3 840.00	77.693
		High	3 940.00	77.566
256QAM	Low	3 740.00	77.203	
	Middle	3 840.00	77.214	
	High	3 940.00	77.163	
37	QPSK	Low	3 740.00	77.343
		Middle	3 840.00	77.352
		High	3 940.00	77.377
	16QAM	Low	3 740.00	77.305
		Middle	3 840.00	77.281
		High	3 940.00	77.220
	64QAM	Low	3 740.00	77.956
		Middle	3 840.00	77.692
		High	3 940.00	77.575
256QAM	Low	3 740.00	77.220	
	Middle	3 840.00	77.220	
	High	3 940.00	77.139	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
38	QPSK	Low	3 740.00	77.314
		Middle	3 840.00	77.432
		High	3 940.00	77.380
	16QAM	Low	3 740.00	77.302
		Middle	3 840.00	77.307
		High	3 940.00	77.213
	64QAM	Low	3 740.00	77.577
		Middle	3 840.00	77.642
		High	3 940.00	77.604
256QAM	Low	3 740.00	77.153	
	Middle	3 840.00	77.213	
	High	3 940.00	77.154	
39	QPSK	Low	3 740.00	77.347
		Middle	3 840.00	77.477
		High	3 940.00	77.380
	16QAM	Low	3 740.00	77.317
		Middle	3 840.00	77.319
		High	3 940.00	77.207
	64QAM	Low	3 740.00	77.660
		Middle	3 840.00	77.701
		High	3 940.00	77.593
256QAM	Low	3 740.00	77.210	
	Middle	3 840.00	77.224	
	High	3 940.00	77.130	
40	QPSK	Low	3 740.00	77.338
		Middle	3 840.00	77.396
		High	3 940.00	77.429
	16QAM	Low	3 740.00	77.304
		Middle	3 840.00	77.303
		High	3 940.00	77.194
	64QAM	Low	3 740.00	77.683
		Middle	3 840.00	77.643
		High	3 940.00	77.532
256QAM	Low	3 740.00	77.195	
	Middle	3 840.00	77.213	
	High	3 940.00	77.128	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
41	QPSK	Low	3 740.00	77.252
		Middle	3 840.00	77.359
		High	3 940.00	77.387
	16QAM	Low	3 740.00	77.273
		Middle	3 840.00	77.301
		High	3 940.00	77.220
	64QAM	Low	3 740.00	77.540
		Middle	3 840.00	77.684
		High	3 940.00	77.538
256QAM	Low	3 740.00	77.169	
	Middle	3 840.00	77.201	
	High	3 940.00	77.120	
42	QPSK	Low	3 740.00	77.289
		Middle	3 840.00	77.338
		High	3 940.00	77.383
	16QAM	Low	3 740.00	77.348
		Middle	3 840.00	77.308
		High	3 940.00	77.197
	64QAM	Low	3 740.00	77.700
		Middle	3 840.00	77.648
		High	3 940.00	77.516
256QAM	Low	3 740.00	77.207	
	Middle	3 840.00	77.214	
	High	3 940.00	77.137	
43	QPSK	Low	3 740.00	77.355
		Middle	3 840.00	77.466
		High	3 940.00	77.450
	16QAM	Low	3 740.00	77.328
		Middle	3 840.00	77.293
		High	3 940.00	77.237
	64QAM	Low	3 740.00	77.655
		Middle	3 840.00	77.618
		High	3 940.00	77.570
256QAM	Low	3 740.00	77.174	
	Middle	3 840.00	77.216	
	High	3 940.00	77.143	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
44	QPSK	Low	3 740.00	77.335
		Middle	3 840.00	77.442
		High	3 940.00	77.422
	16QAM	Low	3 740.00	77.326
		Middle	3 840.00	77.324
		High	3 940.00	77.233
	64QAM	Low	3 740.00	77.612
		Middle	3 840.00	77.656
		High	3 940.00	77.565
256QAM	Low	3 740.00	77.191	
	Middle	3 840.00	77.236	
	High	3 940.00	77.156	
45	QPSK	Low	3 740.00	77.324
		Middle	3 840.00	77.383
		High	3 940.00	77.422
	16QAM	Low	3 740.00	77.301
		Middle	3 840.00	77.314
		High	3 940.00	77.222
	64QAM	Low	3 740.00	77.568
		Middle	3 840.00	77.715
		High	3 940.00	77.534
256QAM	Low	3 740.00	77.193	
	Middle	3 840.00	77.220	
	High	3 940.00	77.145	
46	QPSK	Low	3 740.00	77.350
		Middle	3 840.00	77.412
		High	3 940.00	77.478
	16QAM	Low	3 740.00	77.274
		Middle	3 840.00	77.336
		High	3 940.00	77.258
	64QAM	Low	3 740.00	77.637
		Middle	3 840.00	77.658
		High	3 940.00	77.626
256QAM	Low	3 740.00	77.167	
	Middle	3 840.00	77.218	
	High	3 940.00	77.186	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
47	QPSK	Low	3 740.00	77.260
		Middle	3 840.00	77.346
		High	3 940.00	77.373
	16QAM	Low	3 740.00	77.352
		Middle	3 840.00	77.329
		High	3 940.00	77.216
	64QAM	Low	3 740.00	77.670
		Middle	3 840.00	77.730
		High	3 940.00	77.588
256QAM	Low	3 740.00	77.225	
	Middle	3 840.00	77.243	
	High	3 940.00	77.116	
48	QPSK	Low	3 740.00	77.272
		Middle	3 840.00	77.437
		High	3 940.00	77.426
	16QAM	Low	3 740.00	77.285
		Middle	3 840.00	77.303
		High	3 940.00	77.233
	64QAM	Low	3 740.00	77.585
		Middle	3 840.00	77.635
		High	3 940.00	77.566
256QAM	Low	3 740.00	77.151	
	Middle	3 840.00	77.202	
	High	3 940.00	77.138	
49	QPSK	Low	3 740.00	77.286
		Middle	3 840.00	77.440
		High	3 940.00	77.362
	16QAM	Low	3 740.00	77.304
		Middle	3 840.00	77.299
		High	3 940.00	77.190
	64QAM	Low	3 740.00	77.610
		Middle	3 840.00	77.700
		High	3 940.00	77.598
256QAM	Low	3 740.00	77.174	
	Middle	3 840.00	77.217	
	High	3 940.00	77.129	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
50	QPSK	Low	3 740.00	77.264
		Middle	3 840.00	77.371
		High	3 940.00	77.359
	16QAM	Low	3 740.00	77.293
		Middle	3 840.00	77.260
		High	3 940.00	77.221
	64QAM	Low	3 740.00	77.566
		Middle	3 840.00	77.609
		High	3 940.00	77.551
256QAM	Low	3 740.00	77.212	
	Middle	3 840.00	77.188	
	High	3 940.00	77.123	
51	QPSK	Low	3 740.00	77.373
		Middle	3 840.00	77.415
		High	3 940.00	77.396
	16QAM	Low	3 740.00	77.360
		Middle	3 840.00	77.326
		High	3 940.00	77.255
	64QAM	Low	3 740.00	77.680
		Middle	3 840.00	77.677
		High	3 940.00	77.576
256QAM	Low	3 740.00	77.213	
	Middle	3 840.00	77.242	
	High	3 940.00	77.145	
52	QPSK	Low	3 740.00	77.291
		Middle	3 840.00	77.399
		High	3 940.00	77.399
	16QAM	Low	3 740.00	77.306
		Middle	3 840.00	77.266
		High	3 940.00	77.263
	64QAM	Low	3 740.00	77.636
		Middle	3 840.00	77.603
		High	3 940.00	77.646
256QAM	Low	3 740.00	77.161	
	Middle	3 840.00	77.184	
	High	3 940.00	77.191	



Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
53	QPSK	Low	3 740.00	77.319
		Middle	3 840.00	77.331
		High	3 940.00	77.405
	16QAM	Low	3 740.00	77.316
		Middle	3 840.00	77.285
		High	3 940.00	77.199
	64QAM	Low	3 740.00	77.674
		Middle	3 840.00	77.678
		High	3 940.00	77.589
256QAM	Low	3 740.00	77.240	
	Middle	3 840.00	77.188	
	High	3 940.00	77.141	
54	QPSK	Low	3 740.00	77.297
		Middle	3 840.00	77.459
		High	3 940.00	77.438
	16QAM	Low	3 740.00	77.329
		Middle	3 840.00	77.283
		High	3 940.00	77.222
	64QAM	Low	3 740.00	77.637
		Middle	3 840.00	77.625
		High	3 940.00	77.557
256QAM	Low	3 740.00	77.230	
	Middle	3 840.00	77.204	
	High	3 940.00	77.134	
55	QPSK	Low	3 740.00	77.376
		Middle	3 840.00	77.389
		High	3 940.00	77.440
	16QAM	Low	3 740.00	77.352
		Middle	3 840.00	77.298
		High	3 940.00	77.223
	64QAM	Low	3 740.00	77.723
		Middle	3 840.00	77.674
		High	3 940.00	77.556
256QAM	Low	3 740.00	77.194	
	Middle	3 840.00	77.196	
	High	3 940.00	77.134	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
56	QPSK	Low	3 740.00	77.276
		Middle	3 840.00	77.338
		High	3 940.00	77.375
	16QAM	Low	3 740.00	77.275
		Middle	3 840.00	77.245
		High	3 940.00	77.238
	64QAM	Low	3 740.00	77.578
		Middle	3 840.00	77.582
		High	3 940.00	77.618
256QAM	Low	3 740.00	77.188	
	Middle	3 840.00	77.166	
	High	3 940.00	77.165	
57	QPSK	Low	3 740.00	77.277
		Middle	3 840.00	77.329
		High	3 940.00	77.333
	16QAM	Low	3 740.00	77.256
		Middle	3 840.00	77.305
		High	3 940.00	77.207
	64QAM	Low	3 740.00	77.610
		Middle	3 840.00	77.680
		High	3 940.00	77.587
256QAM	Low	3 740.00	77.208	
	Middle	3 840.00	77.213	
	High	3 940.00	77.113	
58	QPSK	Low	3 740.00	77.330
		Middle	3 840.00	77.465
		High	3 940.00	77.391
	16QAM	Low	3 740.00	77.290
		Middle	3 840.00	77.287
		High	3 940.00	77.248
	64QAM	Low	3 740.00	77.587
		Middle	3 840.00	77.625
		High	3 940.00	77.572
256QAM	Low	3 740.00	77.215	
	Middle	3 840.00	77.210	
	High	3 940.00	77.144	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
59	QPSK	Low	3 740.00	77.294
		Middle	3 840.00	77.359
		High	3 940.00	77.358
	16QAM	Low	3 740.00	77.261
		Middle	3 840.00	77.290
		High	3 940.00	77.226
	64QAM	Low	3 740.00	77.533
		Middle	3 840.00	77.620
		High	3 940.00	77.556
256QAM	Low	3 740.00	77.210	
	Middle	3 840.00	77.184	
	High	3 940.00	77.137	
60	QPSK	Low	3 740.00	77.292
		Middle	3 840.00	77.461
		High	3 940.00	77.393
	16QAM	Low	3 740.00	77.298
		Middle	3 840.00	77.313
		High	3 940.00	77.228
	64QAM	Low	3 740.00	77.682
		Middle	3 840.00	77.635
		High	3 940.00	77.554
256QAM	Low	3 740.00	77.171	
	Middle	3 840.00	77.206	
	High	3 940.00	77.138	
61	QPSK	Low	3 740.00	77.259
		Middle	3 840.00	77.390
		High	3 940.00	77.406
	16QAM	Low	3 740.00	77.203
		Middle	3 840.00	77.283
		High	3 940.00	77.212
	64QAM	Low	3 740.00	77.646
		Middle	3 840.00	77.616
		High	3 940.00	77.595
256QAM	Low	3 740.00	77.167	
	Middle	3 840.00	77.175	
	High	3 940.00	77.148	

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
62	QPSK	Low	3 740.00	77.256
		Middle	3 840.00	77.366
		High	3 940.00	77.409
	16QAM	Low	3 740.00	77.274
		Middle	3 840.00	77.279
		High	3 940.00	77.260
	64QAM	Low	3 740.00	77.665
		Middle	3 840.00	77.652
		High	3 940.00	77.552
256QAM	Low	3 740.00	77.159	
	Middle	3 840.00	77.182	
	High	3 940.00	77.164	
63	QPSK	Low	3 740.00	77.265
		Middle	3 840.00	77.378
		High	3 940.00	77.358
	16QAM	Low	3 740.00	77.231
		Middle	3 840.00	77.290
		High	3 940.00	77.248
	64QAM	Low	3 740.00	77.550
		Middle	3 840.00	77.688
		High	3 940.00	77.633
256QAM	Low	3 740.00	77.211	
	Middle	3 840.00	77.213	
	High	3 940.00	77.145	

**Tabular Data of Contiguous Occupied Bandwidth**
**(64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier]**

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	3 770.00	136.42
	16QAM	Low	3 770.00	136.30
	64QAM	Low	3 770.00	136.25
	256QAM	Low	3 770.00	136.57
1	QPSK	Low	3 770.00	136.08
	16QAM	Low	3 770.00	136.41
	64QAM	Low	3 770.00	136.42
	256QAM	Low	3 770.00	136.45
2	QPSK	Low	3 770.00	136.10
	16QAM	Low	3 770.00	136.34
	64QAM	Low	3 770.00	136.44
	256QAM	Low	3 770.00	136.45
3	QPSK	Low	3 770.00	136.09
	16QAM	Low	3 770.00	136.40
	64QAM	Low	3 770.00	136.26
	256QAM	Low	3 770.00	136.45
4	QPSK	Low	3 770.00	136.52
	16QAM	Low	3 770.00	136.36
	64QAM	Low	3 770.00	136.49
	256QAM	Low	3 770.00	136.35
5	QPSK	Low	3 770.00	136.45
	16QAM	Low	3 770.00	136.31
	64QAM	Low	3 770.00	136.41
	256QAM	Low	3 770.00	136.27
6	QPSK	Low	3 770.00	136.44
	16QAM	Low	3 770.00	136.30
	64QAM	Low	3 770.00	136.42
	256QAM	Low	3 770.00	136.43
7	QPSK	Low	3 770.00	136.44
	16QAM	Low	3 770.00	136.28
	64QAM	Low	3 770.00	136.40
	256QAM	Low	3 770.00	136.26

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
8	QPSK	Low	3 770.00	136.50
	16QAM	Low	3 770.00	136.36
	64QAM	Low	3 770.00	136.47
	256QAM	Low	3 770.00	136.35
9	QPSK	Low	3 770.00	136.48
	16QAM	Low	3 770.00	136.42
	64QAM	Low	3 770.00	136.45
	256QAM	Low	3 770.00	136.62
10	QPSK	Low	3 770.00	136.31
	16QAM	Low	3 770.00	136.42
	64QAM	Low	3 770.00	136.29
	256QAM	Low	3 770.00	136.47
11	QPSK	Low	3 770.00	136.11
	16QAM	Low	3 770.00	136.42
	64QAM	Low	3 770.00	136.45
	256QAM	Low	3 770.00	136.33
12	QPSK	Low	3 770.00	136.10
	16QAM	Low	3 770.00	136.43
	64QAM	Low	3 770.00	136.45
	256QAM	Low	3 770.00	136.46
13	QPSK	Low	3 770.00	136.48
	16QAM	Low	3 770.00	136.33
	64QAM	Low	3 770.00	136.28
	256QAM	Low	3 770.00	136.31
14	QPSK	Low	3 770.00	136.16
	16QAM	Low	3 770.00	136.43
	64QAM	Low	3 770.00	136.36
	256QAM	Low	3 770.00	136.44
15	QPSK	Low	3 770.00	136.11
	16QAM	Low	3 770.00	136.33
	64QAM	Low	3 770.00	136.45
	256QAM	Low	3 770.00	136.32

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
16	QPSK	Low	3 770.00	136.50
	16QAM	Low	3 770.00	136.36
	64QAM	Low	3 770.00	136.30
	256QAM	Low	3 770.00	136.36
17	QPSK	Low	3 770.00	136.41
	16QAM	Low	3 770.00	136.27
	64QAM	Low	3 770.00	136.26
	256QAM	Low	3 770.00	136.41
18	QPSK	Low	3 770.00	136.47
	16QAM	Low	3 770.00	136.42
	64QAM	Low	3 770.00	136.30
	256QAM	Low	3 770.00	136.25
19	QPSK	Low	3 770.00	136.46
	16QAM	Low	3 770.00	136.41
	64QAM	Low	3 770.00	136.44
	256QAM	Low	3 770.00	136.29
20	QPSK	Low	3 770.00	136.30
	16QAM	Low	3 770.00	136.32
	64QAM	Low	3 770.00	136.44
	256QAM	Low	3 770.00	136.64
21	QPSK	Low	3 770.00	136.50
	16QAM	Low	3 770.00	136.35
	64QAM	Low	3 770.00	136.30
	256QAM	Low	3 770.00	136.48
22	QPSK	Low	3 770.00	136.26
	16QAM	Low	3 770.00	136.28
	64QAM	Low	3 770.00	136.42
	256QAM	Low	3 770.00	136.24
23	QPSK	Low	3 770.00	136.51
	16QAM	Low	3 770.00	136.44
	64QAM	Low	3 770.00	136.47
	256QAM	Low	3 770.00	136.49

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
24	QPSK	Low	3 770.00	136.52
	16QAM	Low	3 770.00	136.38
	64QAM	Low	3 770.00	136.32
	256QAM	Low	3 770.00	136.36
25	QPSK	Low	3 770.00	136.29
	16QAM	Low	3 770.00	136.39
	64QAM	Low	3 770.00	136.25
	256QAM	Low	3 770.00	136.29
26	QPSK	Low	3 770.00	136.45
	16QAM	Low	3 770.00	136.42
	64QAM	Low	3 770.00	136.29
	256QAM	Low	3 770.00	136.59
27	QPSK	Low	3 770.00	136.49
	16QAM	Low	3 770.00	136.43
	64QAM	Low	3 770.00	136.44
	256QAM	Low	3 770.00	136.46
28	QPSK	Low	3 770.00	136.07
	16QAM	Low	3 770.00	136.29
	64QAM	Low	3 770.00	136.40
	256QAM	Low	3 770.00	136.58
29	QPSK	Low	3 770.00	136.43
	16QAM	Low	3 770.00	136.39
	64QAM	Low	3 770.00	136.25
	256QAM	Low	3 770.00	136.27
30	QPSK	Low	3 770.00	136.08
	16QAM	Low	3 770.00	136.30
	64QAM	Low	3 770.00	136.40
	256QAM	Low	3 770.00	136.24
31	QPSK	Low	3 770.00	136.48
	16QAM	Low	3 770.00	136.43
	64QAM	Low	3 770.00	136.31
	256QAM	Low	3 770.00	136.61



Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
32	QPSK	Low	3 770.00	136.45
	16QAM	Low	3 770.00	136.40
	64QAM	Low	3 770.00	136.40
	256QAM	Low	3 770.00	136.43
33	QPSK	Low	3 770.00	136.08
	16QAM	Low	3 770.00	136.32
	64QAM	Low	3 770.00	136.27
	256QAM	Low	3 770.00	136.46
34	QPSK	Low	3 770.00	136.51
	16QAM	Low	3 770.00	136.57
	64QAM	Low	3 770.00	136.45
	256QAM	Low	3 770.00	136.48
35	QPSK	Low	3 770.00	136.08
	16QAM	Low	3 770.00	136.32
	64QAM	Low	3 770.00	136.28
	256QAM	Low	3 770.00	136.60
36	QPSK	Low	3 770.00	136.54
	16QAM	Low	3 770.00	136.45
	64QAM	Low	3 770.00	136.31
	256QAM	Low	3 770.00	136.51
37	QPSK	Low	3 770.00	136.50
	16QAM	Low	3 770.00	136.32
	64QAM	Low	3 770.00	136.44
	256QAM	Low	3 770.00	136.28
38	QPSK	Low	3 770.00	136.09
	16QAM	Low	3 770.00	136.32
	64QAM	Low	3 770.00	136.44
	256QAM	Low	3 770.00	136.26
39	QPSK	Low	3 770.00	136.53
	16QAM	Low	3 770.00	136.58
	64QAM	Low	3 770.00	136.52
	256QAM	Low	3 770.00	136.36

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
40	QPSK	Low	3 770.00	136.09
	16QAM	Low	3 770.00	136.33
	64QAM	Low	3 770.00	136.28
	256QAM	Low	3 770.00	136.28
41	QPSK	Low	3 770.00	136.45
	16QAM	Low	3 770.00	136.30
	64QAM	Low	3 770.00	136.27
	256QAM	Low	3 770.00	136.23
42	QPSK	Low	3 770.00	136.55
	16QAM	Low	3 770.00	136.39
	64QAM	Low	3 770.00	136.32
	256QAM	Low	3 770.00	136.52
43	QPSK	Low	3 770.00	136.09
	16QAM	Low	3 770.00	136.55
	64QAM	Low	3 770.00	136.47
	256QAM	Low	3 770.00	136.47
44	QPSK	Low	3 770.00	136.12
	16QAM	Low	3 770.00	136.59
	64QAM	Low	3 770.00	136.51
	256QAM	Low	3 770.00	136.36
45	QPSK	Low	3 770.00	136.29
	16QAM	Low	3 770.00	136.42
	64QAM	Low	3 770.00	136.43
	256QAM	Low	3 770.00	136.46
46	QPSK	Low	3 770.00	136.11
	16QAM	Low	3 770.00	136.45
	64QAM	Low	3 770.00	136.45
	256QAM	Low	3 770.00	136.48
47	QPSK	Low	3 770.00	136.45
	16QAM	Low	3 770.00	136.29
	64QAM	Low	3 770.00	136.43
	256QAM	Low	3 770.00	136.25

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
48	QPSK	Low	3 770.00	136.11
	16QAM	Low	3 770.00	136.45
	64QAM	Low	3 770.00	136.48
	256QAM	Low	3 770.00	136.34
49	QPSK	Low	3 770.00	136.08
	16QAM	Low	3 770.00	136.31
	64QAM	Low	3 770.00	136.26
	256QAM	Low	3 770.00	136.44
50	QPSK	Low	3 770.00	136.05
	16QAM	Low	3 770.00	136.39
	64QAM	Low	3 770.00	136.39
	256QAM	Low	3 770.00	136.22
51	QPSK	Low	3 770.00	136.48
	16QAM	Low	3 770.00	136.32
	64QAM	Low	3 770.00	136.43
	256QAM	Low	3 770.00	136.46
52	QPSK	Low	3 770.00	136.51
	16QAM	Low	3 770.00	136.43
	64QAM	Low	3 770.00	136.30
	256QAM	Low	3 770.00	136.48
53	QPSK	Low	3 770.00	136.55
	16QAM	Low	3 770.00	136.38
	64QAM	Low	3 770.00	136.47
	256QAM	Low	3 770.00	136.40
54	QPSK	Low	3 770.00	136.46
	16QAM	Low	3 770.00	136.30
	64QAM	Low	3 770.00	136.43
	256QAM	Low	3 770.00	136.24
55	QPSK	Low	3 770.00	136.10
	16QAM	Low	3 770.00	136.34
	64QAM	Low	3 770.00	136.29
	256QAM	Low	3 770.00	136.35

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
56	QPSK	Low	3 770.00	136.11
	16QAM	Low	3 770.00	136.36
	64QAM	Low	3 770.00	136.31
	256QAM	Low	3 770.00	136.31
57	QPSK	Low	3 770.00	136.10
	16QAM	Low	3 770.00	136.44
	64QAM	Low	3 770.00	136.44
	256QAM	Low	3 770.00	136.31
58	QPSK	Low	3 770.00	136.28
	16QAM	Low	3 770.00	136.42
	64QAM	Low	3 770.00	136.44
	256QAM	Low	3 770.00	136.45
59	QPSK	Low	3 770.00	136.46
	16QAM	Low	3 770.00	136.53
	64QAM	Low	3 770.00	136.26
	256QAM	Low	3 770.00	136.26
60	QPSK	Low	3 770.00	136.09
	16QAM	Low	3 770.00	136.32
	64QAM	Low	3 770.00	136.45
	256QAM	Low	3 770.00	136.30
61	QPSK	Low	3 770.00	136.08
	16QAM	Low	3 770.00	136.32
	64QAM	Low	3 770.00	136.41
	256QAM	Low	3 770.00	136.44
62	QPSK	Low	3 770.00	136.47
	16QAM	Low	3 770.00	136.31
	64QAM	Low	3 770.00	136.43
	256QAM	Low	3 770.00	136.45
63	QPSK	Low	3 770.00	136.47
	16QAM	Low	3 770.00	136.30
	64QAM	Low	3 770.00	136.42
	256QAM	Low	3 770.00	136.27

## (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] (Asymmetric)

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	3 770.00	136.81
	16QAM	Low	3 770.00	136.51
	64QAM	Low	3 770.00	136.97
	256QAM	Low	3 770.00	136.90
1	QPSK	Low	3 770.00	136.30
	16QAM	Low	3 770.00	136.56
	64QAM	Low	3 770.00	136.70
	256QAM	Low	3 770.00	136.87
2	QPSK	Low	3 770.00	136.77
	16QAM	Low	3 770.00	136.69
	64QAM	Low	3 770.00	136.66
	256QAM	Low	3 770.00	136.26
3	QPSK	Low	3 770.00	136.28
	16QAM	Low	3 770.00	136.58
	64QAM	Low	3 770.00	136.69
	256QAM	Low	3 770.00	136.90
4	QPSK	Low	3 770.00	136.50
	16QAM	Low	3 770.00	136.63
	64QAM	Low	3 770.00	136.73
	256QAM	Low	3 770.00	136.98
5	QPSK	Low	3 770.00	136.28
	16QAM	Low	3 770.00	136.54
	64QAM	Low	3 770.00	136.85
	256QAM	Low	3 770.00	136.88
6	QPSK	Low	3 770.00	136.82
	16QAM	Low	3 770.00	136.50
	64QAM	Low	3 770.00	136.66
	256QAM	Low	3 770.00	136.28
7	QPSK	Low	3 770.00	136.26
	16QAM	Low	3 770.00	136.55
	64QAM	Low	3 770.00	136.84
	256QAM	Low	3 770.00	136.91

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
8	QPSK	Low	3 770.00	136.32
	16QAM	Low	3 770.00	136.57
	64QAM	Low	3 770.00	136.85
	256QAM	Low	3 770.00	136.31
9	QPSK	Low	3 770.00	136.84
	16QAM	Low	3 770.00	136.53
	64QAM	Low	3 770.00	136.86
	256QAM	Low	3 770.00	136.30
10	QPSK	Low	3 770.00	136.85
	16QAM	Low	3 770.00	136.71
	64QAM	Low	3 770.00	136.72
	256QAM	Low	3 770.00	136.88
11	QPSK	Low	3 770.00	136.26
	16QAM	Low	3 770.00	136.37
	64QAM	Low	3 770.00	136.73
	256QAM	Low	3 770.00	136.91
12	QPSK	Low	3 770.00	136.80
	16QAM	Low	3 770.00	136.96
	64QAM	Low	3 770.00	136.87
	256QAM	Low	3 770.00	136.28
13	QPSK	Low	3 770.00	136.43
	16QAM	Low	3 770.00	136.34
	64QAM	Low	3 770.00	136.71
	256QAM	Low	3 770.00	136.89
14	QPSK	Low	3 770.00	136.84
	16QAM	Low	3 770.00	136.41
	64QAM	Low	3 770.00	136.92
	256QAM	Low	3 770.00	136.94
15	QPSK	Low	3 770.00	136.79
	16QAM	Low	3 770.00	136.39
	64QAM	Low	3 770.00	136.70
	256QAM	Low	3 770.00	136.90

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
16	QPSK	Low	3 770.00	136.84
	16QAM	Low	3 770.00	137.00
	64QAM	Low	3 770.00	136.72
	256QAM	Low	3 770.00	136.30
17	QPSK	Low	3 770.00	136.75
	16QAM	Low	3 770.00	136.91
	64QAM	Low	3 770.00	136.93
	256QAM	Low	3 770.00	136.23
18	QPSK	Low	3 770.00	136.44
	16QAM	Low	3 770.00	136.26
	64QAM	Low	3 770.00	136.72
	256QAM	Low	3 770.00	136.24
19	QPSK	Low	3 770.00	136.82
	16QAM	Low	3 770.00	136.40
	64QAM	Low	3 770.00	136.98
	256QAM	Low	3 770.00	136.64
20	QPSK	Low	3 770.00	136.77
	16QAM	Low	3 770.00	136.31
	64QAM	Low	3 770.00	136.75
	256QAM	Low	3 770.00	136.20
21	QPSK	Low	3 770.00	136.34
	16QAM	Low	3 770.00	136.44
	64QAM	Low	3 770.00	136.88
	256QAM	Low	3 770.00	136.80
22	QPSK	Low	3 770.00	136.27
	16QAM	Low	3 770.00	136.27
	64QAM	Low	3 770.00	136.71
	256QAM	Low	3 770.00	136.71
23	QPSK	Low	3 770.00	136.85
	16QAM	Low	3 770.00	136.39
	64QAM	Low	3 770.00	137.01
	256QAM	Low	3 770.00	136.70

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
24	QPSK	Low	3 770.00	136.37
	16QAM	Low	3 770.00	136.97
	64QAM	Low	3 770.00	136.70
	256QAM	Low	3 770.00	136.25
25	QPSK	Low	3 770.00	136.83
	16QAM	Low	3 770.00	136.38
	64QAM	Low	3 770.00	136.69
	256QAM	Low	3 770.00	136.76
26	QPSK	Low	3 770.00	136.29
	16QAM	Low	3 770.00	136.31
	64QAM	Low	3 770.00	136.97
	256QAM	Low	3 770.00	136.22
27	QPSK	Low	3 770.00	136.80
	16QAM	Low	3 770.00	136.34
	64QAM	Low	3 770.00	136.67
	256QAM	Low	3 770.00	136.66
28	QPSK	Low	3 770.00	136.28
	16QAM	Low	3 770.00	136.94
	64QAM	Low	3 770.00	136.68
	256QAM	Low	3 770.00	136.75
29	QPSK	Low	3 770.00	136.45
	16QAM	Low	3 770.00	136.96
	64QAM	Low	3 770.00	136.69
	256QAM	Low	3 770.00	136.25
30	QPSK	Low	3 770.00	136.27
	16QAM	Low	3 770.00	136.33
	64QAM	Low	3 770.00	136.63
	256QAM	Low	3 770.00	136.60
31	QPSK	Low	3 770.00	136.78
	16QAM	Low	3 770.00	136.30
	64QAM	Low	3 770.00	136.77
	256QAM	Low	3 770.00	136.21



Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
32	QPSK	Low	3 770.00	136.27
	16QAM	Low	3 770.00	136.32
	64QAM	Low	3 770.00	136.42
	256QAM	Low	3 770.00	136.43
33	QPSK	Low	3 770.00	136.68
	16QAM	Low	3 770.00	136.32
	64QAM	Low	3 770.00	136.44
	256QAM	Low	3 770.00	136.31
34	QPSK	Low	3 770.00	136.32
	16QAM	Low	3 770.00	136.57
	64QAM	Low	3 770.00	136.29
	256QAM	Low	3 770.00	136.33
35	QPSK	Low	3 770.00	136.48
	16QAM	Low	3 770.00	136.31
	64QAM	Low	3 770.00	136.41
	256QAM	Low	3 770.00	136.26
36	QPSK	Low	3 770.00	136.12
	16QAM	Low	3 770.00	136.58
	64QAM	Low	3 770.00	136.32
	256QAM	Low	3 770.00	136.51
37	QPSK	Low	3 770.00	136.30
	16QAM	Low	3 770.00	136.33
	64QAM	Low	3 770.00	136.44
	256QAM	Low	3 770.00	136.28
38	QPSK	Low	3 770.00	136.48
	16QAM	Low	3 770.00	136.32
	64QAM	Low	3 770.00	136.44
	256QAM	Low	3 770.00	136.45
39	QPSK	Low	3 770.00	136.53
	16QAM	Low	3 770.00	136.37
	64QAM	Low	3 770.00	136.49
	256QAM	Low	3 770.00	136.36

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
40	QPSK	Low	3 770.00	136.30
	16QAM	Low	3 770.00	136.42
	64QAM	Low	3 770.00	136.45
	256QAM	Low	3 770.00	136.59
41	QPSK	Low	3 770.00	136.46
	16QAM	Low	3 770.00	136.29
	64QAM	Low	3 770.00	136.27
	256QAM	Low	3 770.00	136.58
42	QPSK	Low	3 770.00	136.37
	16QAM	Low	3 770.00	136.38
	64QAM	Low	3 770.00	136.83
	256QAM	Low	3 770.00	136.51
43	QPSK	Low	3 770.00	136.09
	16QAM	Low	3 770.00	136.55
	64QAM	Low	3 770.00	136.28
	256QAM	Low	3 770.00	136.33
44	QPSK	Low	3 770.00	136.13
	16QAM	Low	3 770.00	136.37
	64QAM	Low	3 770.00	136.51
	256QAM	Low	3 770.00	136.36
45	QPSK	Low	3 770.00	136.09
	16QAM	Low	3 770.00	136.32
	64QAM	Low	3 770.00	136.28
	256QAM	Low	3 770.00	136.45
46	QPSK	Low	3 770.00	136.53
	16QAM	Low	3 770.00	136.36
	64QAM	Low	3 770.00	136.30
	256QAM	Low	3 770.00	136.36
47	QPSK	Low	3 770.00	136.07
	16QAM	Low	3 770.00	136.54
	64QAM	Low	3 770.00	136.42
	256QAM	Low	3 770.00	136.41

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
48	QPSK	Low	3 770.00	136.11
	16QAM	Low	3 770.00	136.45
	64QAM	Low	3 770.00	136.49
	256QAM	Low	3 770.00	136.35
49	QPSK	Low	3 770.00	136.47
	16QAM	Low	3 770.00	136.31
	64QAM	Low	3 770.00	136.43
	256QAM	Low	3 770.00	136.27
50	QPSK	Low	3 770.00	136.43
	16QAM	Low	3 770.00	136.28
	64QAM	Low	3 770.00	136.26
	256QAM	Low	3 770.00	136.24
51	QPSK	Low	3 770.00	136.08
	16QAM	Low	3 770.00	136.31
	64QAM	Low	3 770.00	136.45
	256QAM	Low	3 770.00	136.46
52	QPSK	Low	3 770.00	136.52
	16QAM	Low	3 770.00	136.43
	64QAM	Low	3 770.00	136.44
	256QAM	Low	3 770.00	136.48
53	QPSK	Low	3 770.00	136.55
	16QAM	Low	3 770.00	136.57
	64QAM	Low	3 770.00	136.31
	256QAM	Low	3 770.00	137.36
54	QPSK	Low	3 770.00	136.46
	16QAM	Low	3 770.00	136.40
	64QAM	Low	3 770.00	136.28
	256QAM	Low	3 770.00	136.25
55	QPSK	Low	3 770.00	136.32
	16QAM	Low	3 770.00	136.33
	64QAM	Low	3 770.00	136.29
	256QAM	Low	3 770.00	136.48

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
56	QPSK	Low	3 770.00	136.11
	16QAM	Low	3 770.00	136.57
	64QAM	Low	3 770.00	136.49
	256QAM	Low	3 770.00	136.62
57	QPSK	Low	3 770.00	136.50
	16QAM	Low	3 770.00	136.56
	64QAM	Low	3 770.00	136.43
	256QAM	Low	3 770.00	136.47
58	QPSK	Low	3 770.00	136.08
	16QAM	Low	3 770.00	136.31
	64QAM	Low	3 770.00	136.43
	256QAM	Low	3 770.00	136.58
59	QPSK	Low	3 770.00	136.07
	16QAM	Low	3 770.00	136.41
	64QAM	Low	3 770.00	136.26
	256QAM	Low	3 770.00	136.44
60	QPSK	Low	3 770.00	136.49
	16QAM	Low	3 770.00	136.43
	64QAM	Low	3 770.00	136.43
	256QAM	Low	3 770.00	136.45
61	QPSK	Low	3 770.00	136.46
	16QAM	Low	3 770.00	136.32
	64QAM	Low	3 770.00	136.44
	256QAM	Low	3 770.00	136.45
62	QPSK	Low	3 770.00	136.46
	16QAM	Low	3 770.00	136.42
	64QAM	Low	3 770.00	136.27
	256QAM	Low	3 770.00	136.59
63	QPSK	Low	3 770.00	136.27
	16QAM	Low	3 770.00	136.30
	64QAM	Low	3 770.00	136.27
	256QAM	Low	3 770.00	136.45

## (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 100 MHz 1 Carrier [2 Carrier] (Asymmetric)

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
0	QPSK	Low	3 800.00	191.97
	16QAM	Low	3 800.00	192.07
	64QAM	Low	3 800.00	192.98
	256QAM	Low	3 800.00	192.77
1	QPSK	Low	3 800.00	191.86
	16QAM	Low	3 800.00	191.59
	64QAM	Low	3 800.00	191.82
	256QAM	Low	3 800.00	192.30
2	QPSK	Low	3 800.00	192.11
	16QAM	Low	3 800.00	192.11
	64QAM	Low	3 800.00	192.13
	256QAM	Low	3 800.00	192.89
3	QPSK	Low	3 800.00	192.21
	16QAM	Low	3 800.00	192.19
	64QAM	Low	3 800.00	192.27
	256QAM	Low	3 800.00	192.18
4	QPSK	Low	3 800.00	192.00
	16QAM	Low	3 800.00	191.78
	64QAM	Low	3 800.00	192.85
	256QAM	Low	3 800.00	191.88
5	QPSK	Low	3 800.00	191.90
	16QAM	Low	3 800.00	191.62
	64QAM	Low	3 800.00	192.73
	256QAM	Low	3 800.00	192.32
6	QPSK	Low	3 800.00	191.98
	16QAM	Low	3 800.00	191.70
	64QAM	Low	3 800.00	192.97
	256QAM	Low	3 800.00	191.94
7	QPSK	Low	3 800.00	191.87
	16QAM	Low	3 800.00	191.83
	64QAM	Low	3 800.00	192.64
	256QAM	Low	3 800.00	191.52

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
8	QPSK	Low	3 800.00	192.19
	16QAM	Low	3 800.00	192.06
	64QAM	Low	3 800.00	192.26
	256QAM	Low	3 800.00	192.98
9	QPSK	Low	3 800.00	192.13
	16QAM	Low	3 800.00	191.89
	64QAM	Low	3 800.00	193.03
	256QAM	Low	3 800.00	192.84
10	QPSK	Low	3 800.00	192.14
	16QAM	Low	3 800.00	192.12
	64QAM	Low	3 800.00	192.20
	256QAM	Low	3 800.00	192.94
11	QPSK	Low	3 800.00	191.84
	16QAM	Low	3 800.00	191.33
	64QAM	Low	3 800.00	192.33
	256QAM	Low	3 800.00	191.52
12	QPSK	Low	3 800.00	192.03
	16QAM	Low	3 800.00	191.91
	64QAM	Low	3 800.00	192.45
	256QAM	Low	3 800.00	192.18
13	QPSK	Low	3 800.00	192.13
	16QAM	Low	3 800.00	192.88
	64QAM	Low	3 800.00	192.86
	256QAM	Low	3 800.00	192.45
14	QPSK	Low	3 800.00	192.18
	16QAM	Low	3 800.00	192.88
	64QAM	Low	3 800.00	192.40
	256QAM	Low	3 800.00	192.13
15	QPSK	Low	3 800.00	192.08
	16QAM	Low	3 800.00	192.00
	64QAM	Low	3 800.00	192.44
	256QAM	Low	3 800.00	192.44

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
16	QPSK	Low	3 800.00	191.89
	16QAM	Low	3 800.00	192.82
	64QAM	Low	3 800.00	192.22
	256QAM	Low	3 800.00	191.98
17	QPSK	Low	3 800.00	191.84
	16QAM	Low	3 800.00	192.84
	64QAM	Low	3 800.00	192.13
	256QAM	Low	3 800.00	192.15
18	QPSK	Low	3 800.00	191.97
	16QAM	Low	3 800.00	192.82
	64QAM	Low	3 800.00	192.65
	256QAM	Low	3 800.00	192.24
19	QPSK	Low	3 800.00	192.16
	16QAM	Low	3 800.00	193.03
	64QAM	Low	3 800.00	192.49
	256QAM	Low	3 800.00	192.45
20	QPSK	Low	3 800.00	191.95
	16QAM	Low	3 800.00	192.87
	64QAM	Low	3 800.00	192.78
	256QAM	Low	3 800.00	191.92
21	QPSK	Low	3 800.00	192.11
	16QAM	Low	3 800.00	192.76
	64QAM	Low	3 800.00	192.85
	256QAM	Low	3 800.00	192.23
22	QPSK	Low	3 800.00	192.25
	16QAM	Low	3 800.00	192.81
	64QAM	Low	3 800.00	192.92
	256QAM	Low	3 800.00	192.50
23	QPSK	Low	3 800.00	192.23
	16QAM	Low	3 800.00	192.13
	64QAM	Low	3 800.00	192.65
	256QAM	Low	3 800.00	192.57

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
24	QPSK	Low	3 800.00	192.04
	16QAM	Low	3 800.00	193.09
	64QAM	Low	3 800.00	192.40
	256QAM	Low	3 800.00	192.30
25	QPSK	Low	3 800.00	192.07
	16QAM	Low	3 800.00	192.84
	64QAM	Low	3 800.00	192.34
	256QAM	Low	3 800.00	192.03
26	QPSK	Low	3 800.00	191.75
	16QAM	Low	3 800.00	192.47
	64QAM	Low	3 800.00	191.83
	256QAM	Low	3 800.00	191.67
27	QPSK	Low	3 800.00	191.66
	16QAM	Low	3 800.00	192.47
	64QAM	Low	3 800.00	191.83
	256QAM	Low	3 800.00	191.63
28	QPSK	Low	3 800.00	191.95
	16QAM	Low	3 800.00	192.82
	64QAM	Low	3 800.00	192.62
	256QAM	Low	3 800.00	191.80
29	QPSK	Low	3 800.00	191.55
	16QAM	Low	3 800.00	192.27
	64QAM	Low	3 800.00	192.13
	256QAM	Low	3 800.00	191.45
30	QPSK	Low	3 800.00	191.57
	16QAM	Low	3 800.00	192.54
	64QAM	Low	3 800.00	192.17
	256QAM	Low	3 800.00	191.95
31	QPSK	Low	3 800.00	192.17
	16QAM	Low	3 800.00	192.10
	64QAM	Low	3 800.00	192.64
	256QAM	Low	3 800.00	192.19



Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
32	QPSK	Low	3 800.00	191.79
	16QAM	Low	3 800.00	191.69
	64QAM	Low	3 800.00	191.97
	256QAM	Low	3 800.00	191.94
33	QPSK	Low	3 800.00	192.11
	16QAM	Low	3 800.00	191.62
	64QAM	Low	3 800.00	192.37
	256QAM	Low	3 800.00	191.69
34	QPSK	Low	3 800.00	191.65
	16QAM	Low	3 800.00	191.74
	64QAM	Low	3 800.00	192.49
	256QAM	Low	3 800.00	191.80
35	QPSK	Low	3 800.00	191.94
	16QAM	Low	3 800.00	191.72
	64QAM	Low	3 800.00	192.19
	256QAM	Low	3 800.00	192.19
36	QPSK	Low	3 800.00	191.98
	16QAM	Low	3 800.00	191.99
	64QAM	Low	3 800.00	192.79
	256QAM	Low	3 800.00	192.31
37	QPSK	Low	3 800.00	192.05
	16QAM	Low	3 800.00	191.94
	64QAM	Low	3 800.00	192.75
	256QAM	Low	3 800.00	192.00
38	QPSK	Low	3 800.00	191.91
	16QAM	Low	3 800.00	191.98
	64QAM	Low	3 800.00	192.72
	256QAM	Low	3 800.00	192.23
39	QPSK	Low	3 800.00	192.06
	16QAM	Low	3 800.00	191.69
	64QAM	Low	3 800.00	191.94
	256QAM	Low	3 800.00	191.95

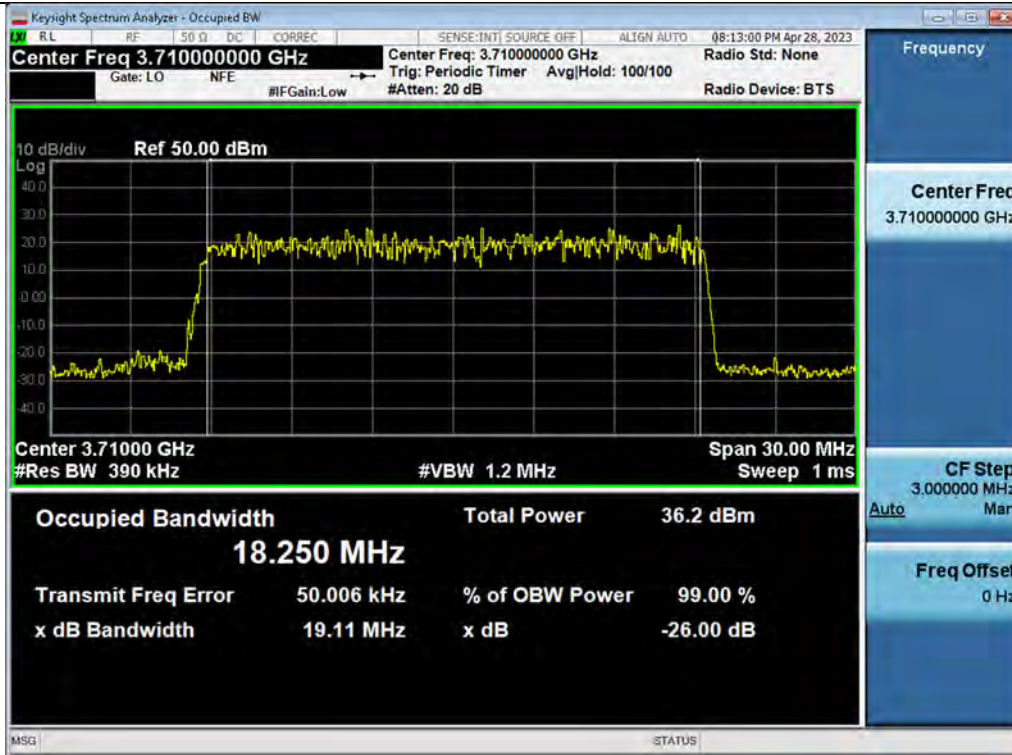
Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
40	QPSK	Low	3 800.00	192.11
	16QAM	Low	3 800.00	191.87
	64QAM	Low	3 800.00	192.51
	256QAM	Low	3 800.00	192.16
41	QPSK	Low	3 800.00	191.99
	16QAM	Low	3 800.00	191.95
	64QAM	Low	3 800.00	192.66
	256QAM	Low	3 800.00	191.95
42	QPSK	Low	3 800.00	192.26
	16QAM	Low	3 800.00	191.96
	64QAM	Low	3 800.00	192.45
	256QAM	Low	3 800.00	192.27
43	QPSK	Low	3 800.00	191.82
	16QAM	Low	3 800.00	191.56
	64QAM	Low	3 800.00	192.60
	256QAM	Low	3 800.00	192.06
44	QPSK	Low	3 800.00	192.25
	16QAM	Low	3 800.00	192.07
	64QAM	Low	3 800.00	192.61
	256QAM	Low	3 800.00	192.50
45	QPSK	Low	3 800.00	191.97
	16QAM	Low	3 800.00	191.85
	64QAM	Low	3 800.00	192.33
	256QAM	Low	3 800.00	192.02
46	QPSK	Low	3 800.00	192.32
	16QAM	Low	3 800.00	192.97
	64QAM	Low	3 800.00	192.48
	256QAM	Low	3 800.00	192.59
47	QPSK	Low	3 800.00	192.06
	16QAM	Low	3 800.00	191.91
	64QAM	Low	3 800.00	192.41
	256QAM	Low	3 800.00	192.38

Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
48	QPSK	Low	3 800.00	192.12
	16QAM	Low	3 800.00	192.98
	64QAM	Low	3 800.00	193.00
	256QAM	Low	3 800.00	192.21
49	QPSK	Low	3 800.00	191.91
	16QAM	Low	3 800.00	191.98
	64QAM	Low	3 800.00	192.40
	256QAM	Low	3 800.00	192.39
50	QPSK	Low	3 800.00	191.95
	16QAM	Low	3 800.00	192.57
	64QAM	Low	3 800.00	192.12
	256QAM	Low	3 800.00	191.85
51	QPSK	Low	3 800.00	192.11
	16QAM	Low	3 800.00	191.87
	64QAM	Low	3 800.00	192.92
	256QAM	Low	3 800.00	192.12
52	QPSK	Low	3 800.00	191.81
	16QAM	Low	3 800.00	191.49
	64QAM	Low	3 800.00	192.53
	256QAM	Low	3 800.00	191.80
53	QPSK	Low	3 800.00	192.15
	16QAM	Low	3 800.00	192.82
	64QAM	Low	3 800.00	192.31
	256QAM	Low	3 800.00	192.11
54	QPSK	Low	3 800.00	192.36
	16QAM	Low	3 800.00	192.90
	64QAM	Low	3 800.00	192.94
	256QAM	Low	3 800.00	192.47
55	QPSK	Low	3 800.00	191.87
	16QAM	Low	3 800.00	191.77
	64QAM	Low	3 800.00	192.74
	256QAM	Low	3 800.00	192.21

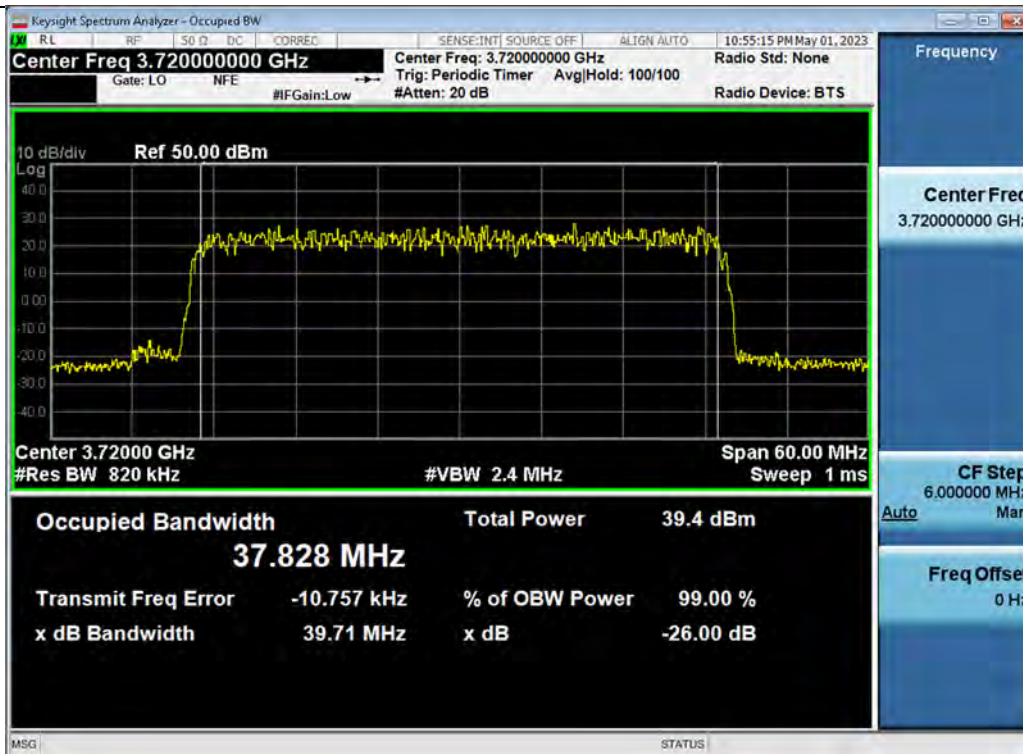
Ant	Mod	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
56	QPSK	Low	3 800.00	192.17
	16QAM	Low	3 800.00	193.03
	64QAM	Low	3 800.00	192.99
	256QAM	Low	3 800.00	192.48
57	QPSK	Low	3 800.00	192.19
	16QAM	Low	3 800.00	193.14
	64QAM	Low	3 800.00	192.97
	256QAM	Low	3 800.00	192.43
58	QPSK	Low	3 800.00	191.85
	16QAM	Low	3 800.00	192.66
	64QAM	Low	3 800.00	192.18
	256QAM	Low	3 800.00	191.93
59	QPSK	Low	3 800.00	191.72
	16QAM	Low	3 800.00	191.52
	64QAM	Low	3 800.00	192.40
	256QAM	Low	3 800.00	191.75
60	QPSK	Low	3 800.00	191.98
	16QAM	Low	3 800.00	191.90
	64QAM	Low	3 800.00	192.17
	256QAM	Low	3 800.00	191.92
61	QPSK	Low	3 800.00	191.81
	16QAM	Low	3 800.00	192.66
	64QAM	Low	3 800.00	192.70
	256QAM	Low	3 800.00	191.90
62	QPSK	Low	3 800.00	191.77
	16QAM	Low	3 800.00	192.64
	64QAM	Low	3 800.00	192.10
	256QAM	Low	3 800.00	191.85
63	QPSK	Low	3 800.00	192.02
	16QAM	Low	3 800.00	192.92
	64QAM	Low	3 800.00	192.28
	256QAM	Low	3 800.00	192.01

Plot Data of Occupied bandwidth

Antenna 1 / (64 Port) 5G NR n77 20 MHz [1 Carrier] / 256QAM / Low



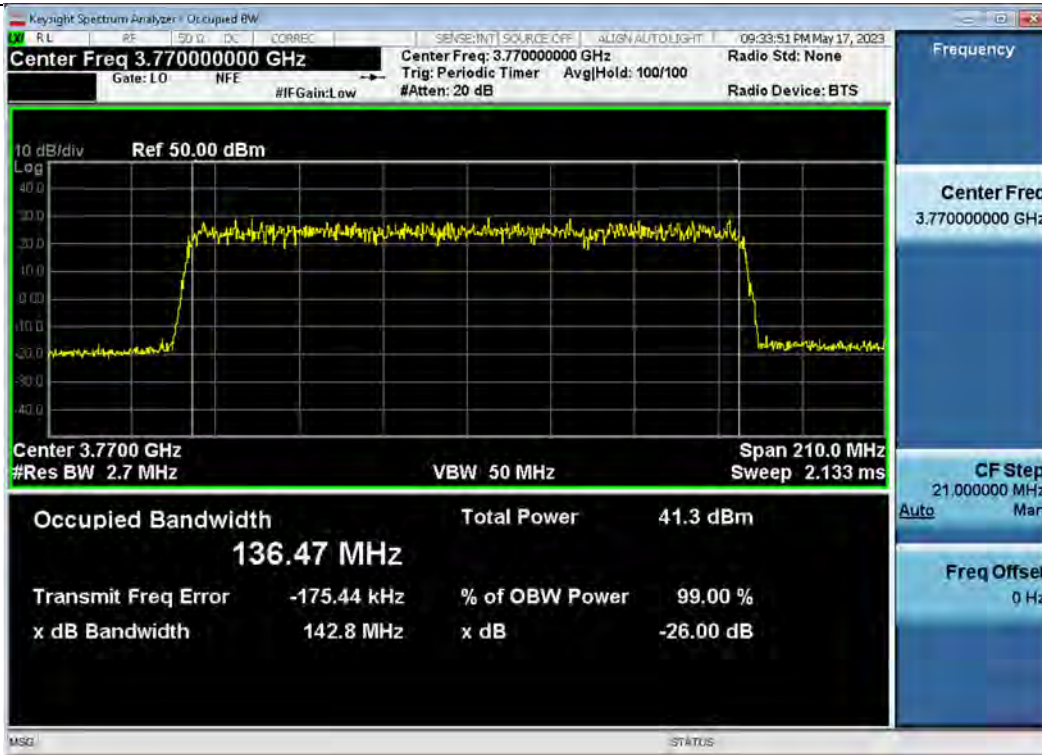
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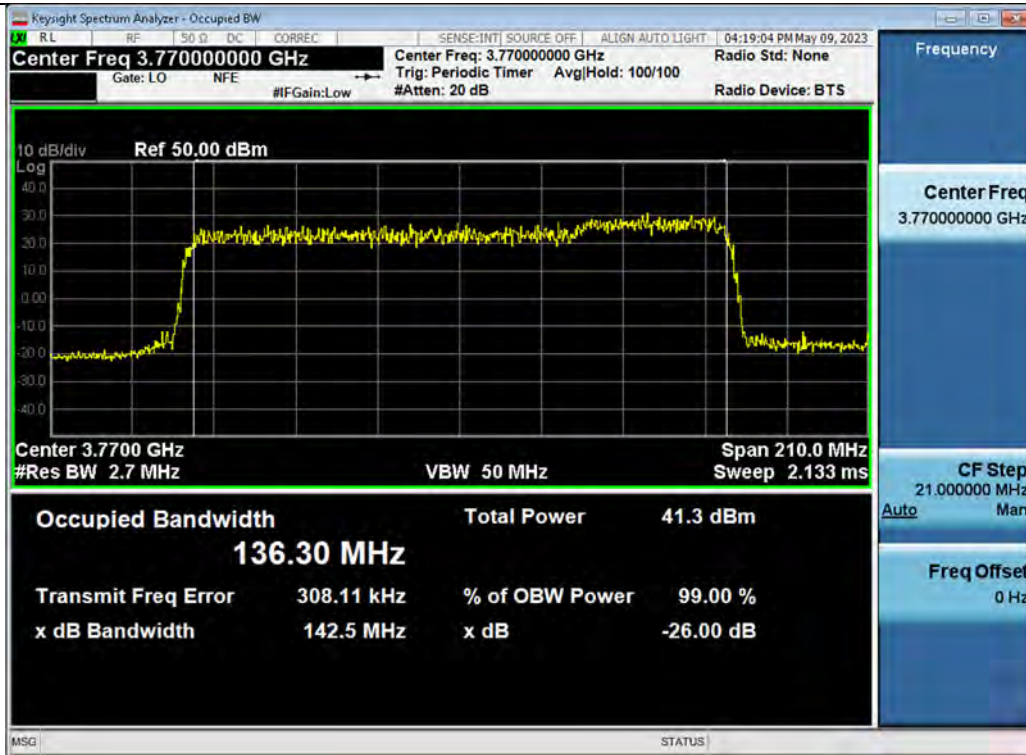
Antenna 1 / (64 Port) 5G NR n77 80 MHz [1 Carrier] / 256QAM / Low



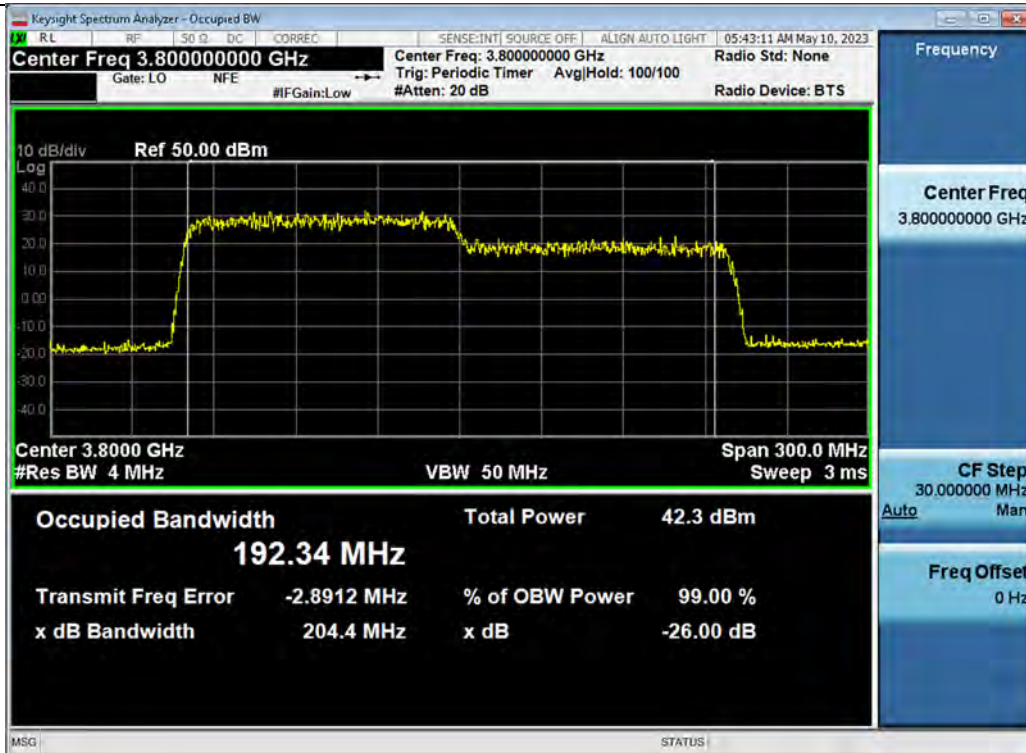
Antenna 43 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] / 64QAM / Low



## Antenna 1 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] (Asymmetric) / QPSK / Low



## Antenna 25 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 100 MHz 1 Carrier [2 Carrier] (Asymmetric) / 64QAM / Low



## 5.4. OUT-OF-BAND UNWANTED EMISSIONS

### Test Requirements:

#### § 2.1051 Measurements required: Spurious emissions at antenna terminals.

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

#### § 27.53 Emission limits.

(l) 3.7 GHz Service. The following emission limits apply to station transmitting in the 3700-3980 MHz band:

- (1) For base station operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (l)(1) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

### Test Procedures:

The measurement is performed in accordance with Section 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)  $>$  (number of points in sweep)  $\times$  (symbol period) (e.g., by a factor of  $10 \times$  symbol period  $\times$  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 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  $>$  (number of points in sweep)  $\times$  (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  $\leq \pm 2\%$ ).
  - 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  $>$  (number of points in sweep)  $\times$  (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  $>$  (symbol period)  $\times$  (number of points), while also maintaining the sweep time  $<$  (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.

**Note:**

1. Due to MIMO operations, a correction has been added to the limit according to KDB 662911 D01 v02r01.
  - 64Tx MIMO correction:  $10 \log(N_{\text{ANT}}) = 10 \log(64) = 18.06 \text{ dB} // -13 \text{ dBm} - 18.06 \text{ dB} = -31.06 \text{ dBm}$
2. Sample Calculation:
  - 35.118 dBm (Measured Value) + 1.308 dB (Duty Cycle Factor) = -33.810 dBm (Calculated Value)
3. The results of the Out-of-band Unwanted Emissions test shown above the frequency measured values are very small and similar trend for each port, so we are attached only the worst case plot.

**Test Results:**
**Tabular Data of Out-of-band Unwanted Emissions**
**(64 Port) 5G NR n77 20 MHz [1 Carrier]**

Ant.	Mod.	Channel	Frequency (MHz)	Calculated Value (dBm)
1	256QAM	Low	3 699.88	-33.81
19	QPSK	High	3 980.10	-37.19

**(64 Port) 5G NR n77 40 MHz [1 Carrier]**

Ant.	Mod.	Channel	Frequency (MHz)	Calculated Value (dBm)
19	256QAM	Low	3 699.80	-32.57
19	256QAM	High	3 980.22	-36.01

**(64 Port) 5G NR n77 80 MHz [1 Carrier]**

Ant.	Mod.	Channel	Frequency (MHz)	Calculated Value (dBm)
1	256QAM	Low	3 699.60	-34.05
11	256QAM	High	3 980.40	-32.80

**Tabular Data of Contiguous Out-of-band Unwanted Emissions**
**(64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier]**

Ant.	Mod.	Channel	Frequency (MHz)	Calculated Value (dBm)
43	64QAM	Low	3 699.50	-34.43

**(64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] (Asymmetric)**

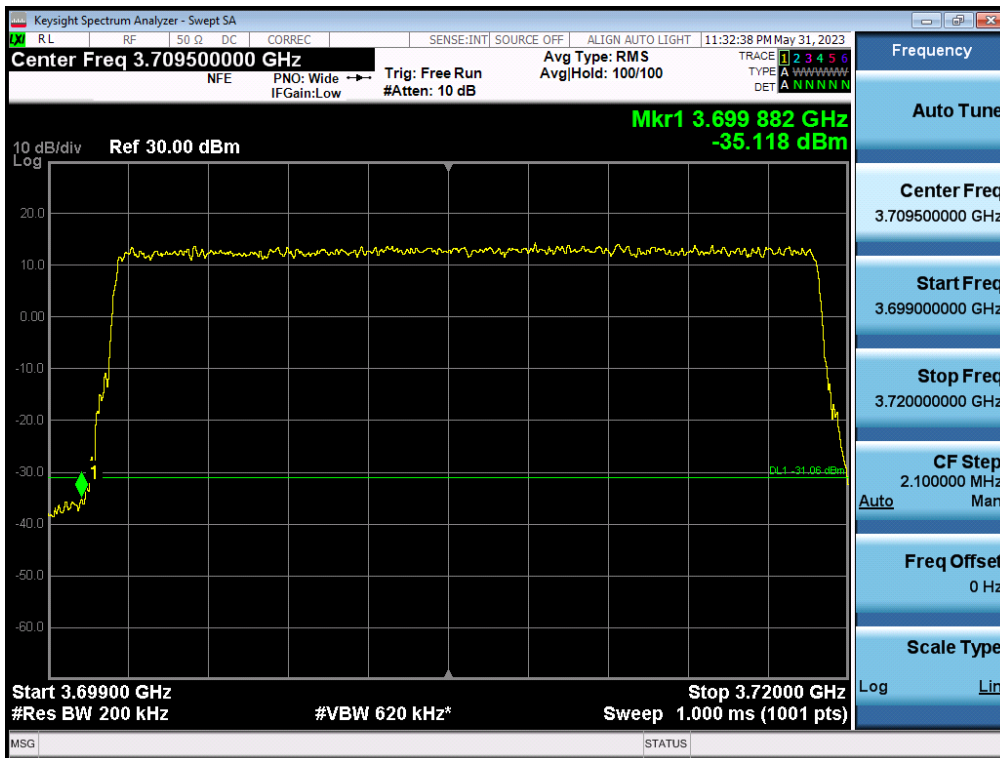
Ant.	Mod.	Channel	Frequency (MHz)	Calculated Value (dBm)
1	QPSK	Low	3 699.50	-35.12

**(64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 100 MHz 1 Carrier [2 Carrier] (Asymmetric)**

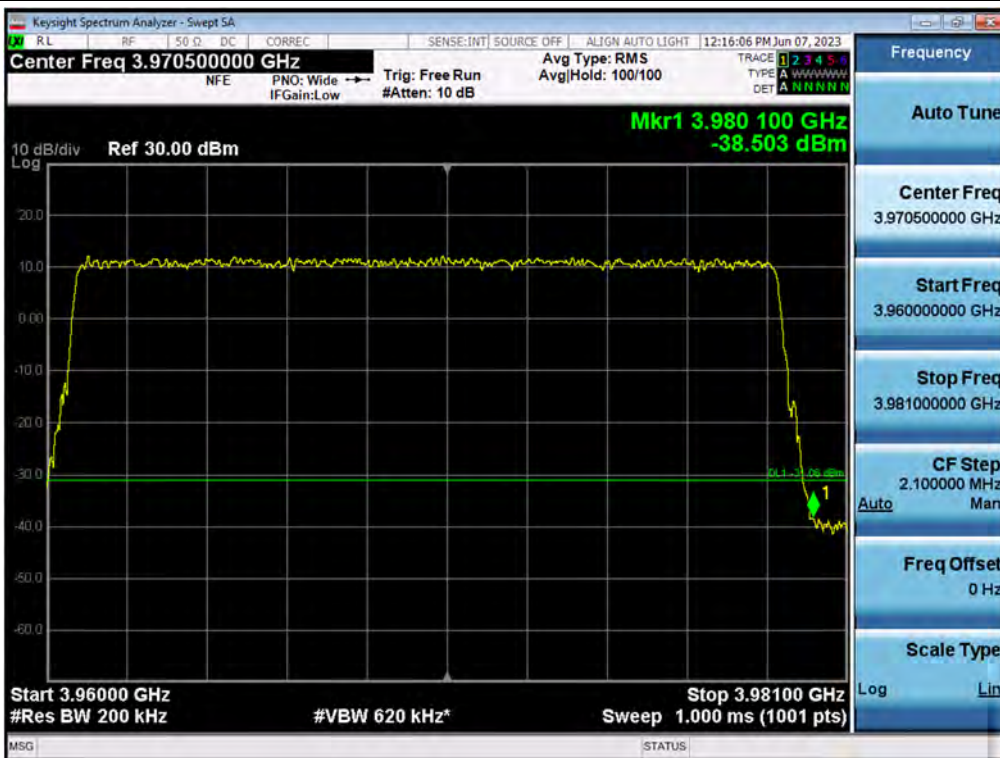
Ant.	Mod.	Channel	Frequency (MHz)	Calculated Value (dBm)
25	64QAM	Low	3 699.50	-34.51

## Plot Data of Out-of-band Unwanted Emissions

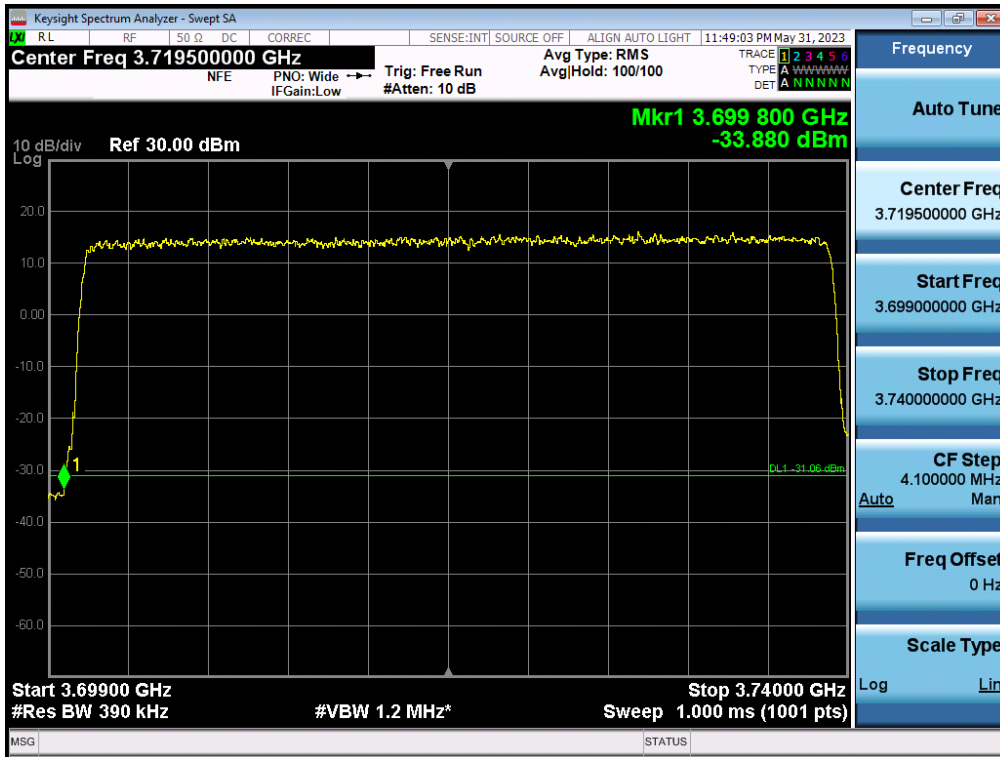
Antenna 1 / (64 Port) 5G NR n77 20 MHz [1 Carrier] / 256QAM / Low



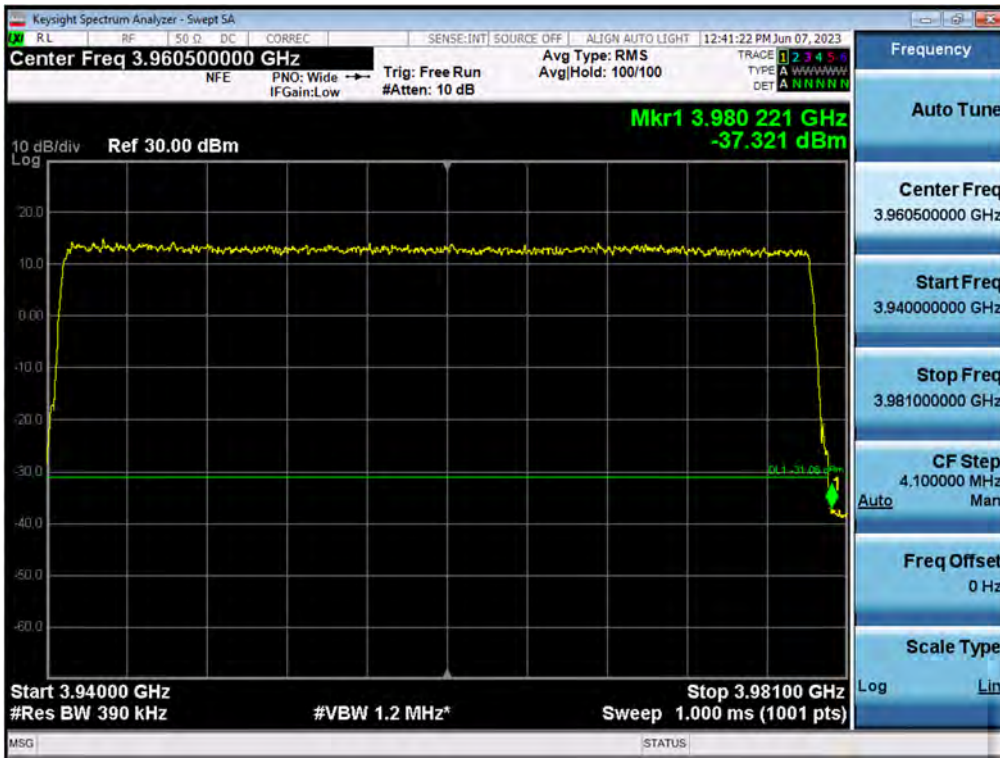
Antenna 19 / (64 Port) 5G NR n77 20 MHz [1 Carrier] / QPSK / High



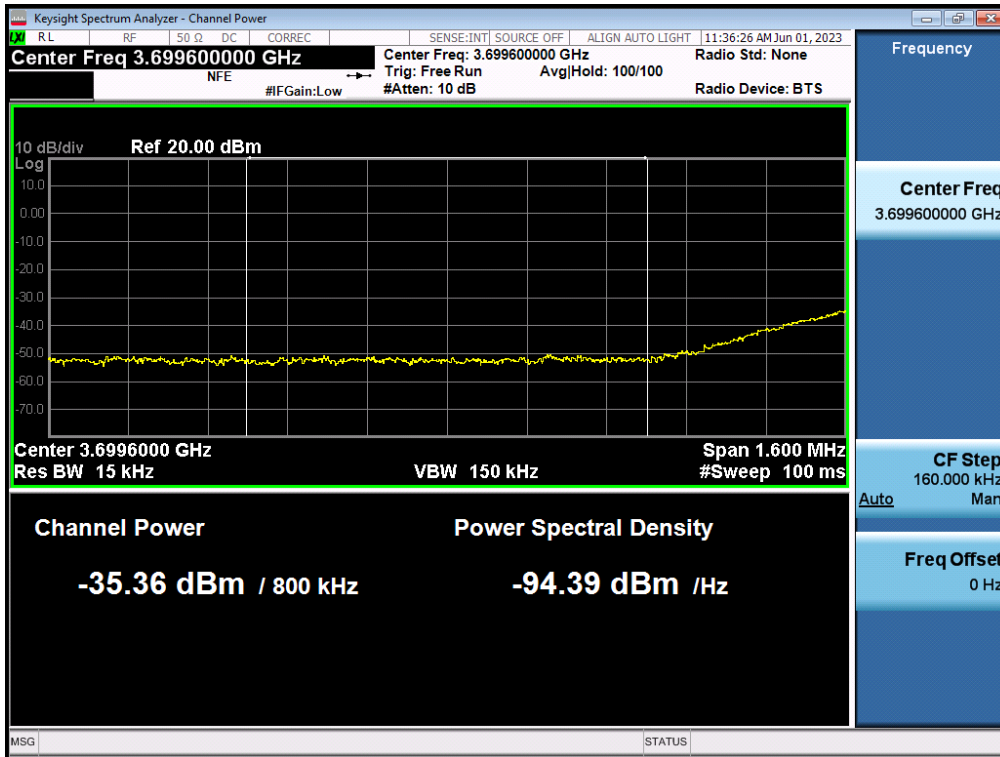
Antenna 19 / (64 Port) 5G NR n77 40 MHz [1 Carrier] / 256QAM / Low



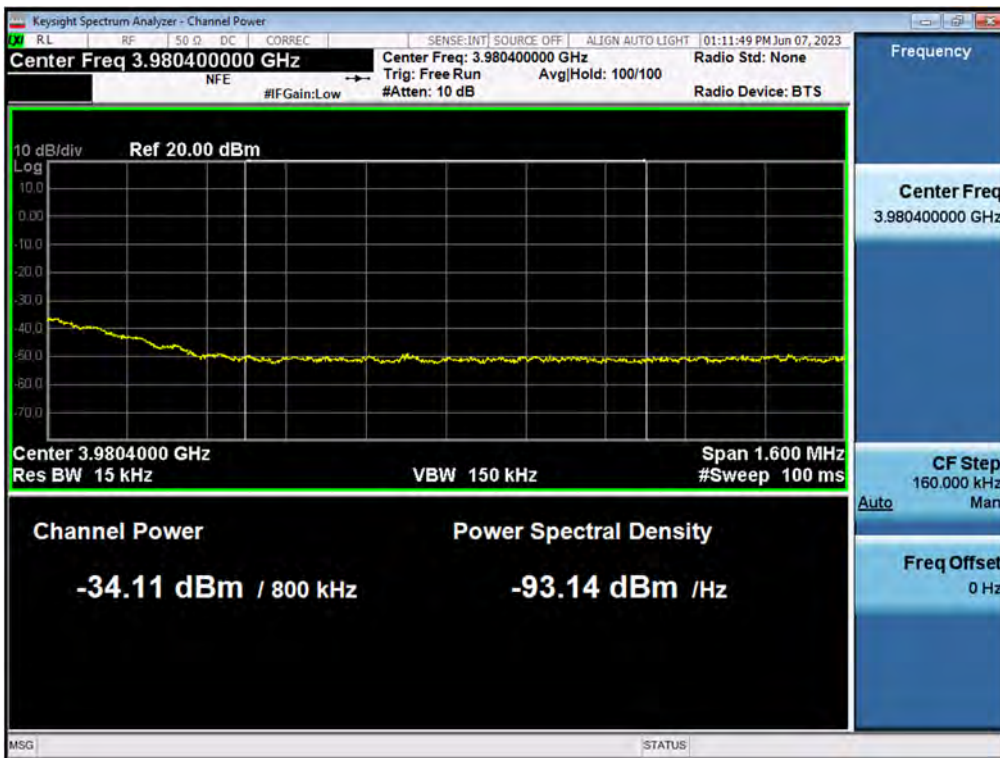
Antenna 19 / (64 Port) 5G NR n77 40 MHz [1 Carrier] / 256QAM / High



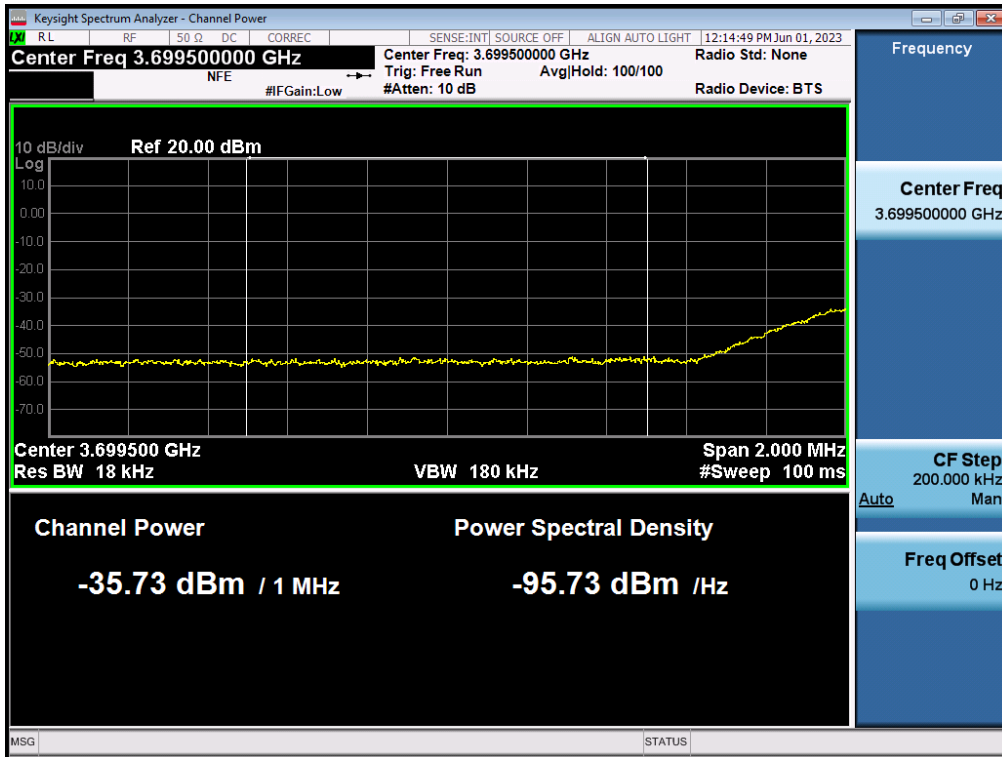
Antenna 1 / (64 Port) 5G NR n77 80 MHz [1 Carrier] / 256QAM / Low



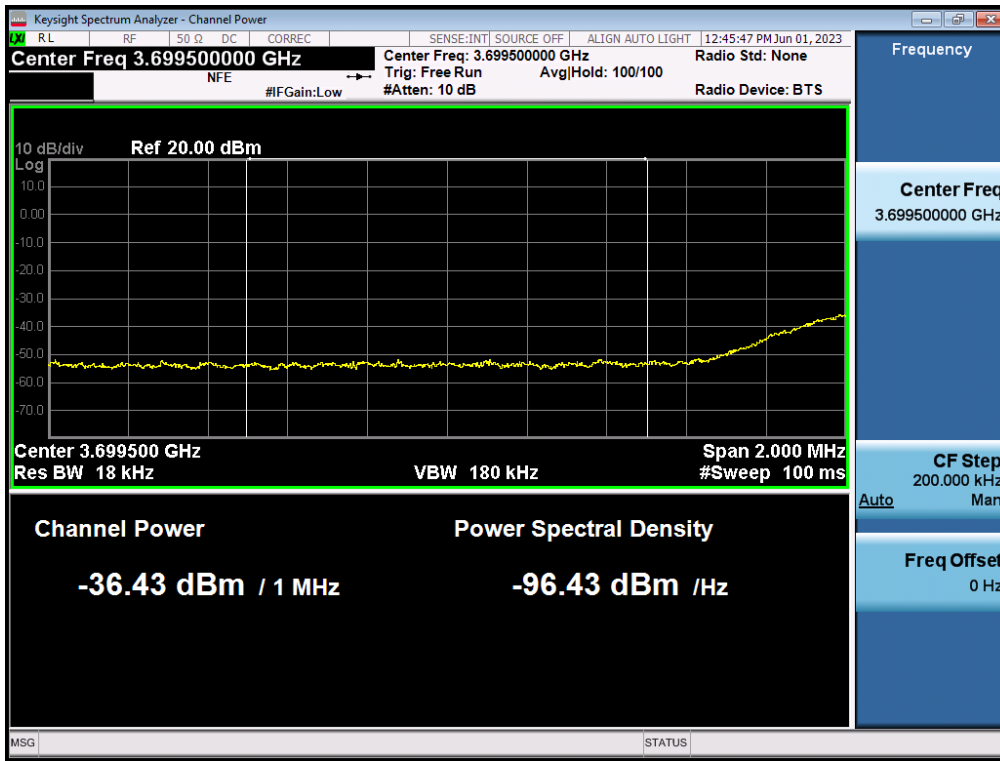
Antenna 11 / (64 Port) 5G NR n77 80 MHz [1 Carrier] / 256QAM / High



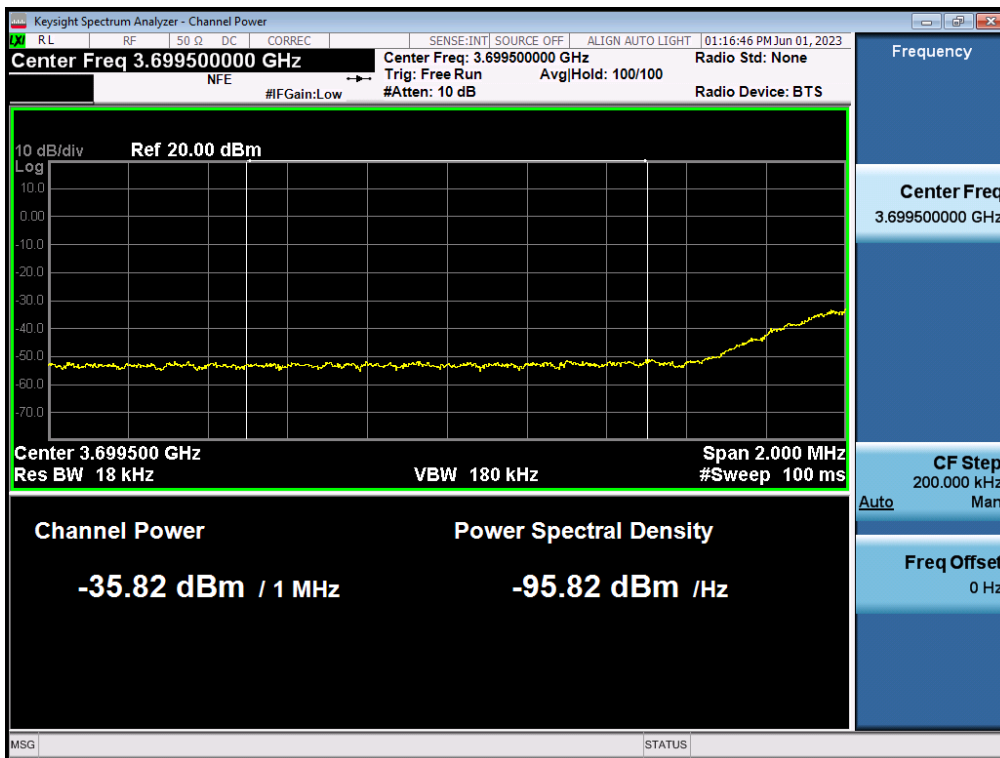
Antenna 43 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] / 64QAM / Low / Contiguous



Antenna 1 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] (Asymmetric) / QPSK / Low / Contiguous



Antenna 25 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 100 MHz 1 Carrier [2 Carrier] (Asymmetric) / 64QAM / Low / Contiguous



## 5.5. SPURIOUS 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.

(l) 3.7 GHz Service. The following emission limits apply to station transmitting in the 3700-3980 MHz band:

- (1) For base station operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (l)(1) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

### Test Procedures:

The measurement is performed in accordance with Section 5.7.4 of ANSI C63.26.

#### 5.7.4 Spurious unwanted emission measurements

- a) Set the spectrum analyzer start frequency to the lowest frequency generated by the EUT, without going below 9 kHz, and the stop frequency to the lower frequency covered by the measurements previously performed in 5.7.3. As an alternative, the stop frequency can be set to the value specified in 5.1.1, depending on the EUT operating range, if the resulting plot can clearly demonstrate compliance for all frequencies not addressed by the out-of-band emissions measurements performed as per 5.7.3.
- b) When using an average power (rms) detector, ensure that the number of points in the sweep  $\geq 2 \times (\text{span} / \text{RBW})$ . This may require that the measurement range defined by the start and stop frequencies be subdivided, depending on the spectrum analyzer capabilities. This requirement does not apply to peak-detected power measurements. When average power is specified by the applicable regulation, a peak-detector can be utilized for preliminary measurements to accommodate wider frequency spans. Any emissions found in the preliminary measurement to exceed the applicable limit(s) shall be further examined using a power averaging (rms) detector with the minimum number of measurement points as defined above.
- c) The sweep time should be set to auto-couple for performing peak-detector measurements. For measurements that use a power averaging (rms) detector, the sweep time shall be set as described for out-of-band emissions measurements in item d) of 5.7.3.
- d) Identify and measure the Highest spurious emission levels in each frequency range. It is not necessary to re-measure the



out-of-band emissions as a part of this test. Record the frequencies and amplitudes corresponding to the measured emissions and capture the data plots.

- e) Repeat step b) through step d) for the upper spurious emission frequency range if not already captured by a wide span measurement performed as per the alternative provided in step a). The upper frequency for this measurement is defined in 5.1.1 as a function of the EUT operating range.
- f) Compare the results with the corresponding limit in the applicable regulation.
- g) The test report shall include the data plots of the measuring instrument display and the measured data.

**Note:**

1. In 9 kHz to 30 MHz band, RBW narrower than reference bandwidth is used. So following correction factor is applied.
  - $10 \log [(reference\ bandwidth)/(resolution\ bandwidth)]$
  - : 9 kHz to 150 kHz applied 1 kHz RBW,  $10 \log (1\ MHz / 1\ kHz) = 30\ dB$
  - : 150 kHz to 30 MHz applied 10 kHz RBW,  $10 \log (1\ MHz / 10\ kHz) = 20\ dB$
2. Due to MIMO operations, a correction has been added to the limit according to KDB 662911 D01 v02r01.
  - 64Tx MIMO correction:  $10 \log(N_{ANT}) = 10 \log(64) = 18.06\ dB // -13\ dBm/MHz - 18.06\ dB = -31.06\ dBm/MHz$
3. Sample Calculation:
  - 69.182 dBm (Measured Value) + 30 dB (Narrower RBW Correction) + 1.308 dB (Duty Cycle Factor)
  - = -37.874 dBm (Calculated Value)
4. The results of the Spurious Unwanted Emissions shown above the frequency measured values are very small and similar trend for each port, so we are attached only the worst case plot.

**Test Results:**
**Tabular Data of Spurious Unwanted Emissions**
**(64 Port) 5G NR n77 20 MHz [1 Carrier]**
**Test Result for Output Port 1**

Mod.	Channel	Calculated Value (dBm)							
		9 kHz ~ 150 kHz	150 kHz ~ 30 MHz	30 MHz ~ Low Edge - 100 MHz	Low Edge - 100 MHz ~ Low Edge	High Edge ~ High Edge + 100 MHz	High Edge + 100 MHz ~ 10 GHz	10 GHz ~ 26.5 GHz	26.5 GHz ~ 40 GHz
256QAM	Low	-37.874	-43.605	-47.139	-32.975	-43.784	-36.226	-37.393	-37.257

**(64 Port) 5G NR n77 40 MHz [1 Carrier]**
**Test Result for Output Port 19**

Mod.	Channel	Calculated Value (dBm)							
		9 kHz ~ 150 kHz	150 kHz ~ 30 MHz	30 MHz ~ Low Edge - 100 MHz	Low Edge - 100 MHz ~ Low Edge	High Edge ~ High Edge + 100 MHz	High Edge + 100 MHz ~ 10 GHz	10 GHz ~ 26.5 GHz	26.5 GHz ~ 40 GHz
256QAM	Low	-36.605	-43.592	-47.166	-32.787	-40.905	-35.047	-37.327	-37.624

**(64 Port) 5G NR n77 80 MHz [1 Carrier]**
**Test Result for Output Port 1**

Mod.	Channel	Calculated Value (dBm)							
		9 kHz ~ 150 kHz	150 kHz ~ 30 MHz	30 MHz ~ Low Edge - 100 MHz	Low Edge - 100 MHz ~ Low Edge	High Edge ~ High Edge + 100 MHz	High Edge + 100 MHz ~ 10 GHz	10 GHz ~ 26.5 GHz	26.5 GHz ~ 40 GHz
256QAM	Low	-37.143	-45.577	-45.790	-38.110	-36.622	-35.610	-38.116	-36.533

**Tabular Data of RF Contiguous Spurious Unwanted Emissions**
**(64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier]**
**Test Result for Output Port 43**

Mod.	Channel	Calculated Value (dBm)							
		9 kHz ~ 150 kHz	150 kHz ~ 30 MHz	30 MHz ~ Low Edge - 100 MHz	Low Edge - 100 MHz ~ Low Edge	High Edge ~ High Edge + 100 MHz	High Edge + 100 MHz ~ 10 GHz	10 GHz ~ 26.5 GHz	26.5 GHz ~ 40 GHz
64QAM	Low	-36.026	-43.428	-46.851	-34.476	-35.455	-36.274	-38.556	-36.584

**(64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] (Asymmetric)**
**Test Result for Output Port 0**

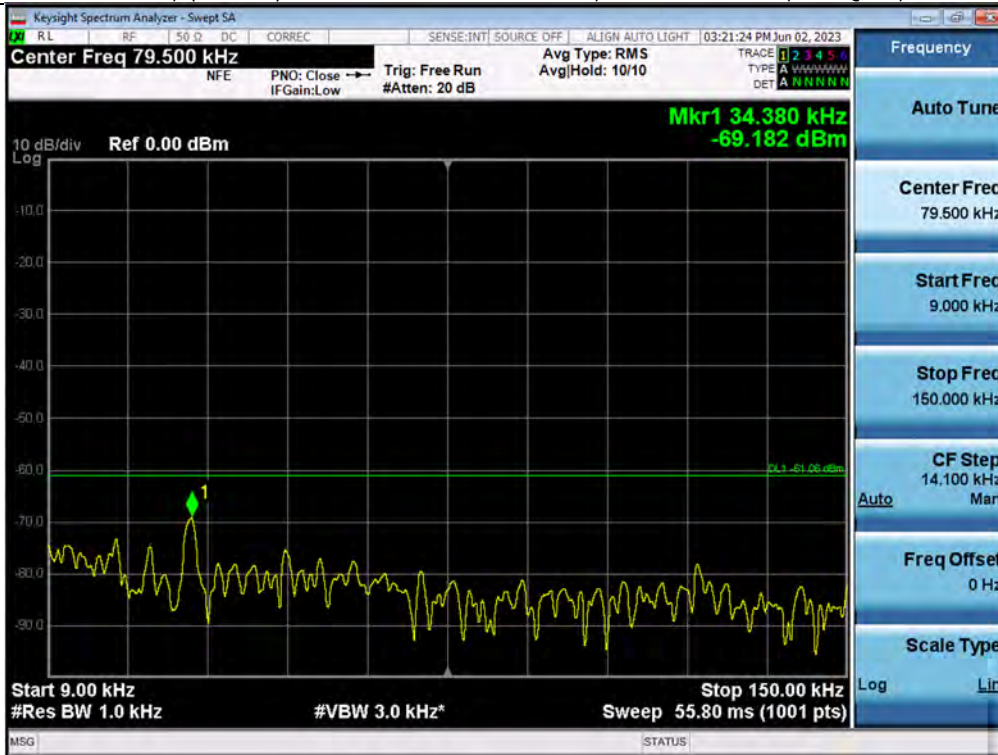
Mod.	Channel	Calculated Value (dBm)							
		9 kHz ~ 150 kHz	150 kHz ~ 30 MHz	30 MHz ~ Low Edge - 100 MHz	Low Edge - 100 MHz ~ Low Edge	High Edge ~ High Edge + 100 MHz	High Edge + 100 MHz ~ 10 GHz	10 GHz ~ 26.5 GHz	26.5 GHz ~ 40 GHz
QPSK	Low	-35.632	-44.176	-46.533	-34.885	-34.105	-37.341	-37.433	-35.906

**(64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 100 MHz 1 Carrier [2 Carrier] (Asymmetric)**
**Test Result for Output Port 25**

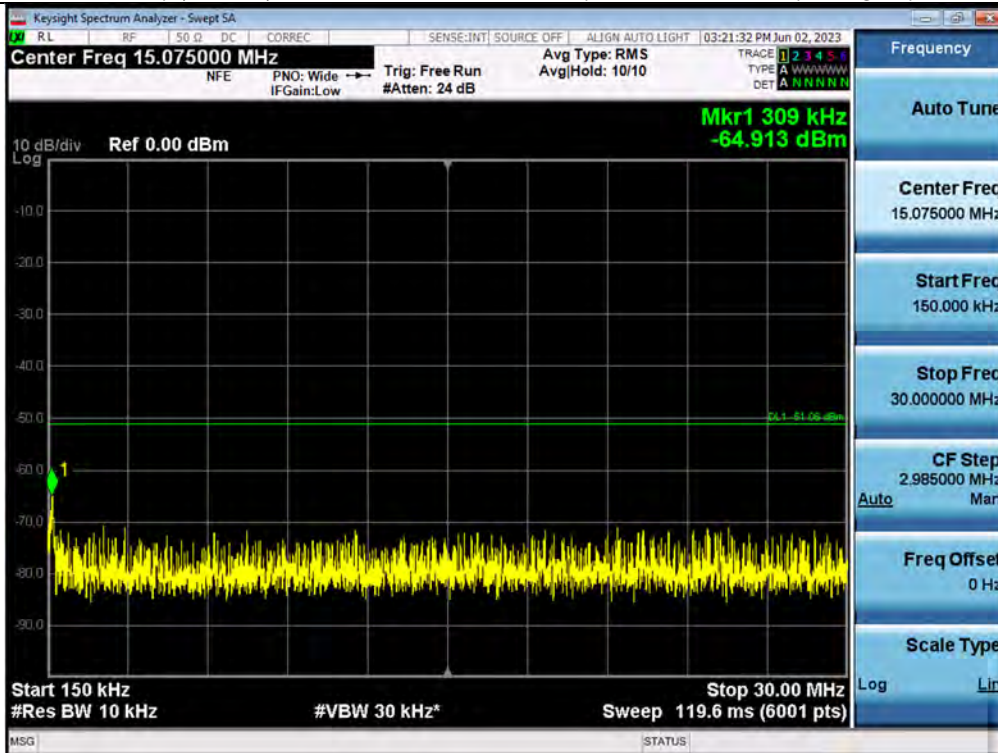
Mod.	Channel	Calculated Value (dBm)							
		9 kHz ~ 150 kHz	150 kHz ~ 30 MHz	30 MHz ~ Low Edge - 100 MHz	Low Edge - 100 MHz ~ Low Edge	High Edge ~ High Edge + 100 MHz	High Edge + 100 MHz ~ 10 GHz	10 GHz ~ 26.5 GHz	26.5 GHz ~ 40 GHz
64QAM	Low	-37.670	-44.737	-45.934	-34.331	-38.198	-36.993	-36.739	-36.992

Plot Data of Spurious Unwanted Emissions

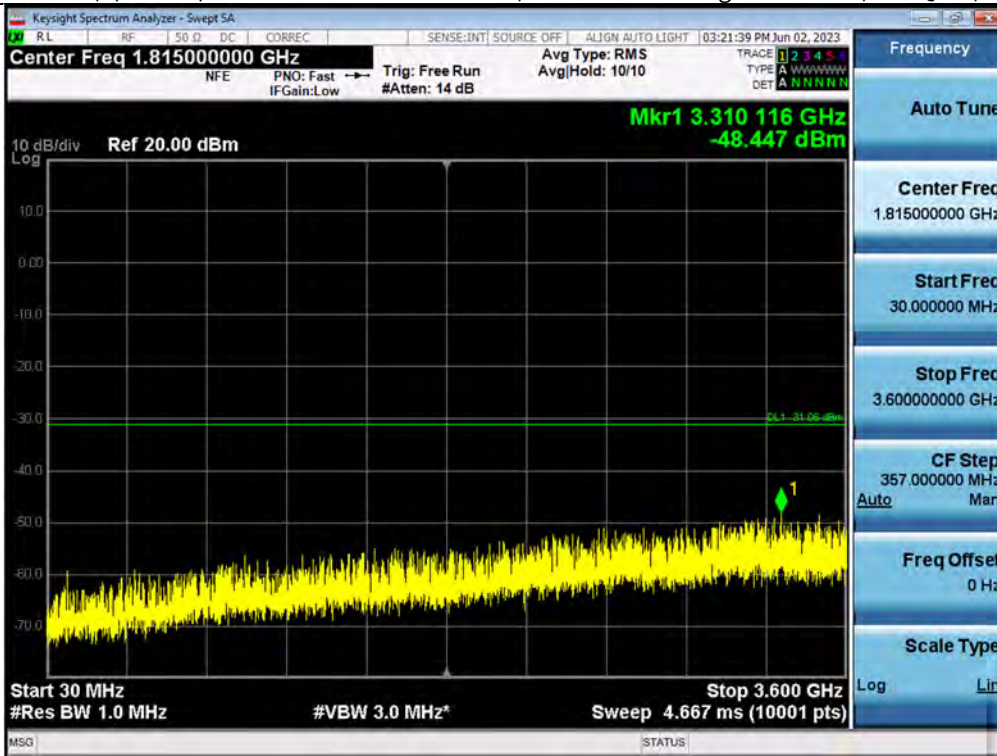
Antenna 1 / (64 Port) 5G NR n77 20 MHz 1 Carrier / 9 kHz ~ 150 kHz / 256QAM / Low



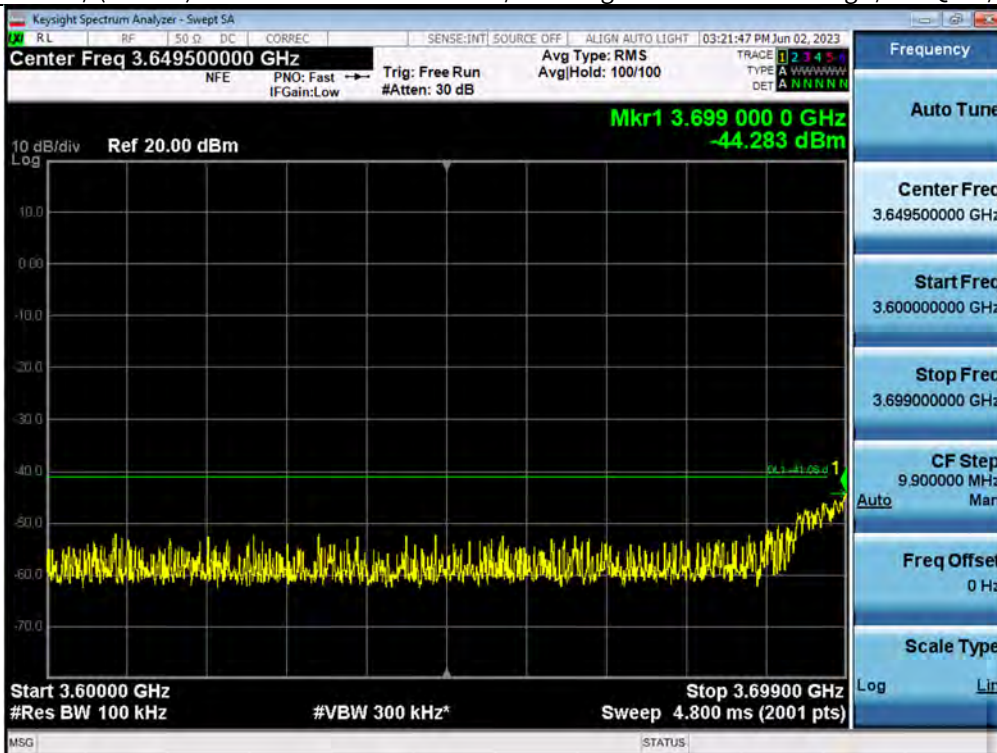
Antenna 1 / (64 Port) 5G NR n77 20 MHz 1 Carrier / 150 kHz ~ 30 MHz / 256QAM / Low



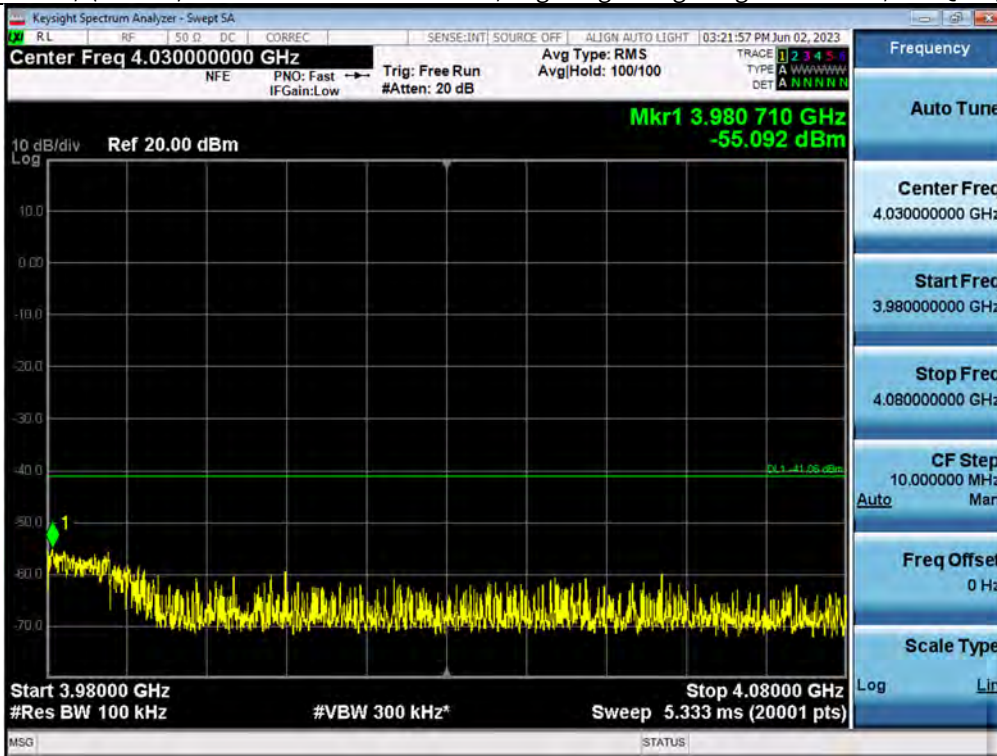
Antenna 1 / (64 Port) 5G NR n77 20 MHz 1 Carrier / 30 MHz ~ Low Edge - 100 MHz / 256QAM / Low



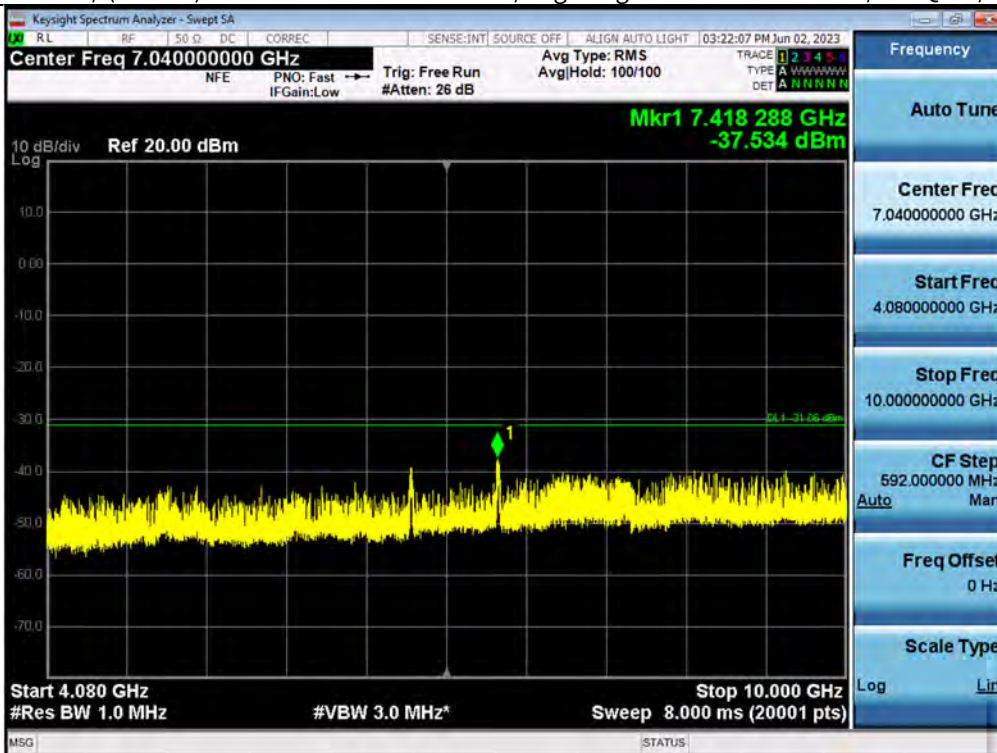
Antenna 1 / (64 Port) 5G NR n77 20 MHz 1 Carrier / Low Edge - 100 MHz ~ Low Edge / 256QAM / Low



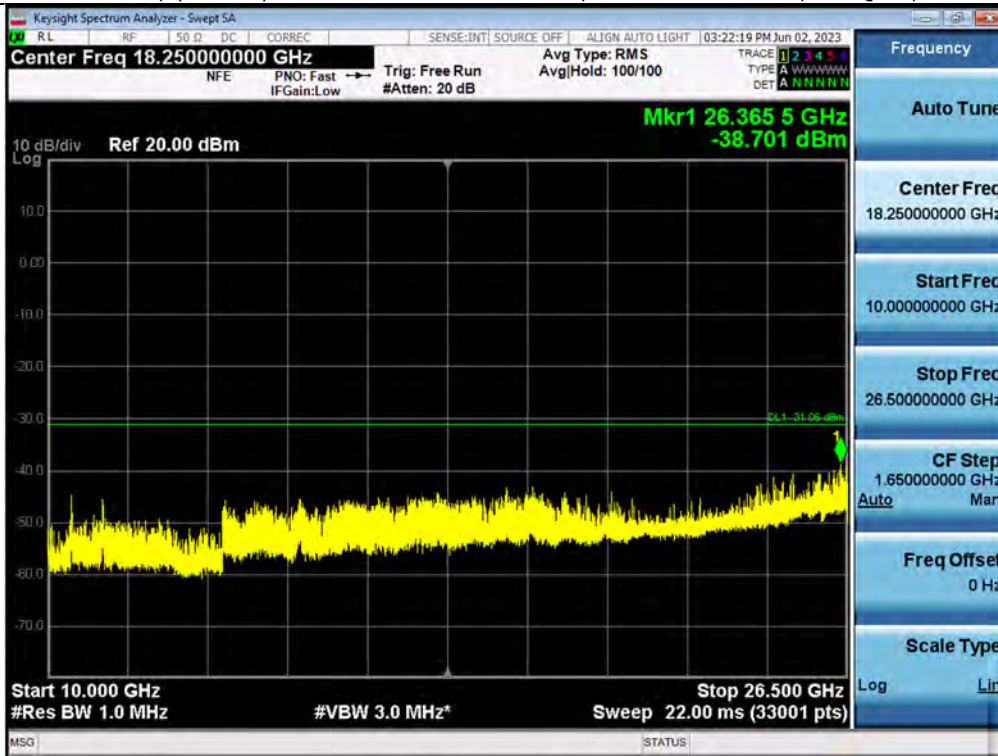
Antenna 1 / (64 Port) 5G NR n77 20 MHz 1 Carrier / High Edge ~ High Edge + 100 MHz / 256QAM / Low



Antenna 1 / (64 Port) 5G NR n77 20 MHz 1 Carrier / High Edge + 100 MHz ~ 10 GHz / 256QAM / Low



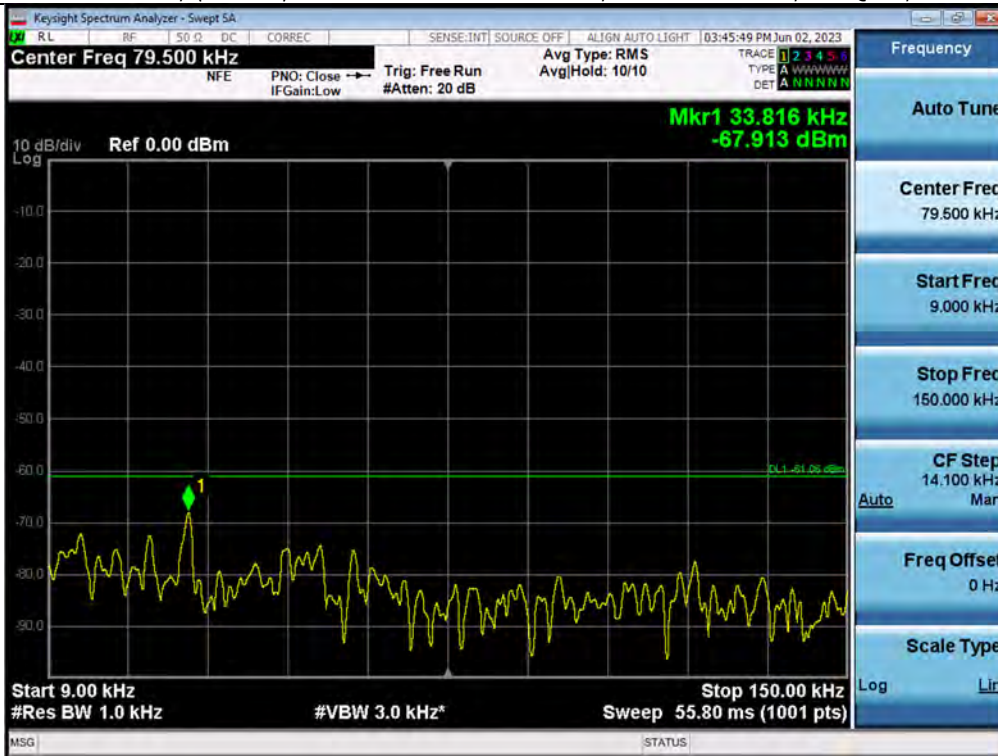
Antenna 1 / (64 Port) 5G NR n77 20 MHz 1 Carrier / 10 GHz ~ 26.5 GHz / 256QAM / Low



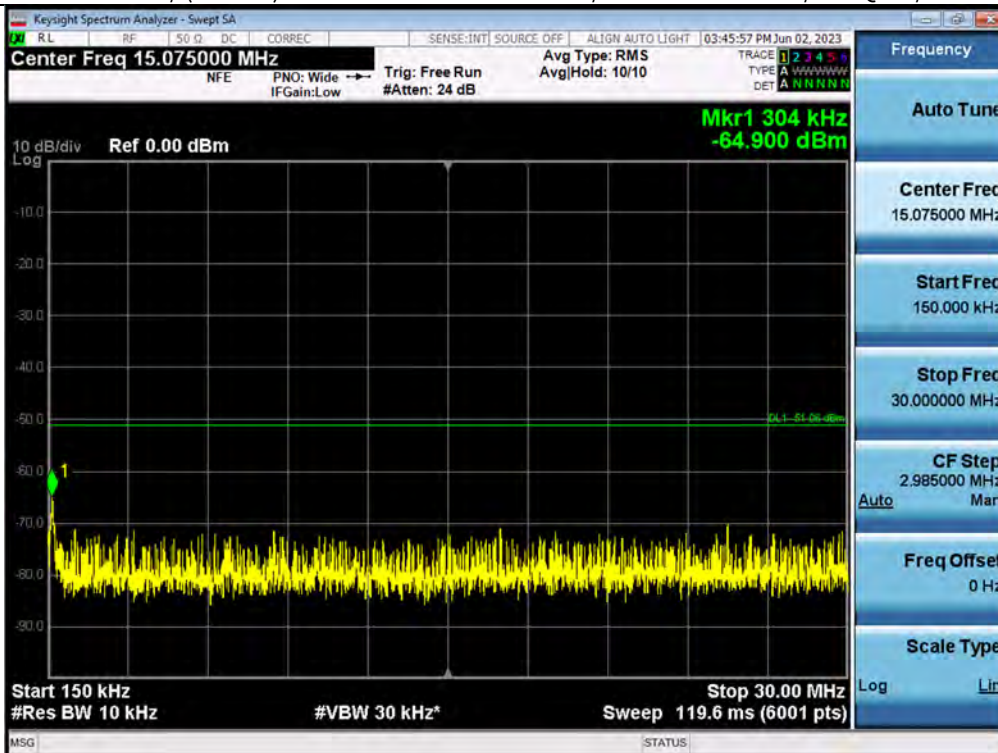
Antenna 1 / (64 Port) 5G NR n77 20 MHz 1 Carrier / 26.5 GHz ~ 40 GHz / 256QAM / Low



Antenna 19 / (64 Port) 5G NR n77 40 MHz 1 Carrier / 9 kHz ~ 150 kHz / 256QAM / Low

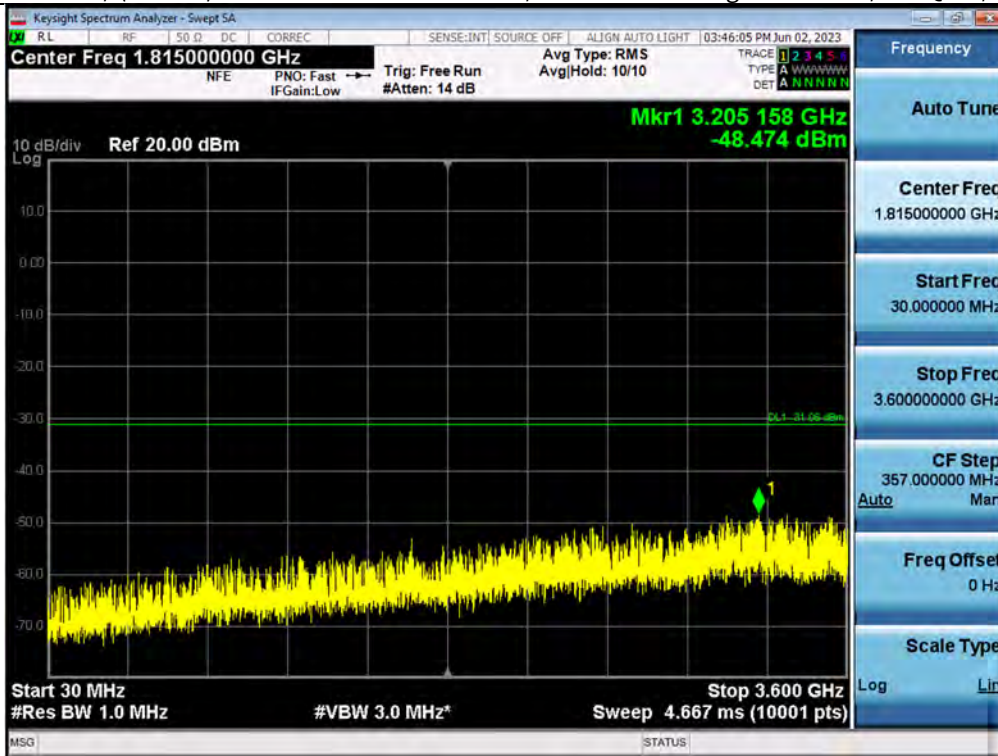


Antenna 19 / (64 Port) 5G NR n77 40 MHz 1 Carrier / 150 kHz ~ 30 MHz / 256QAM / Low

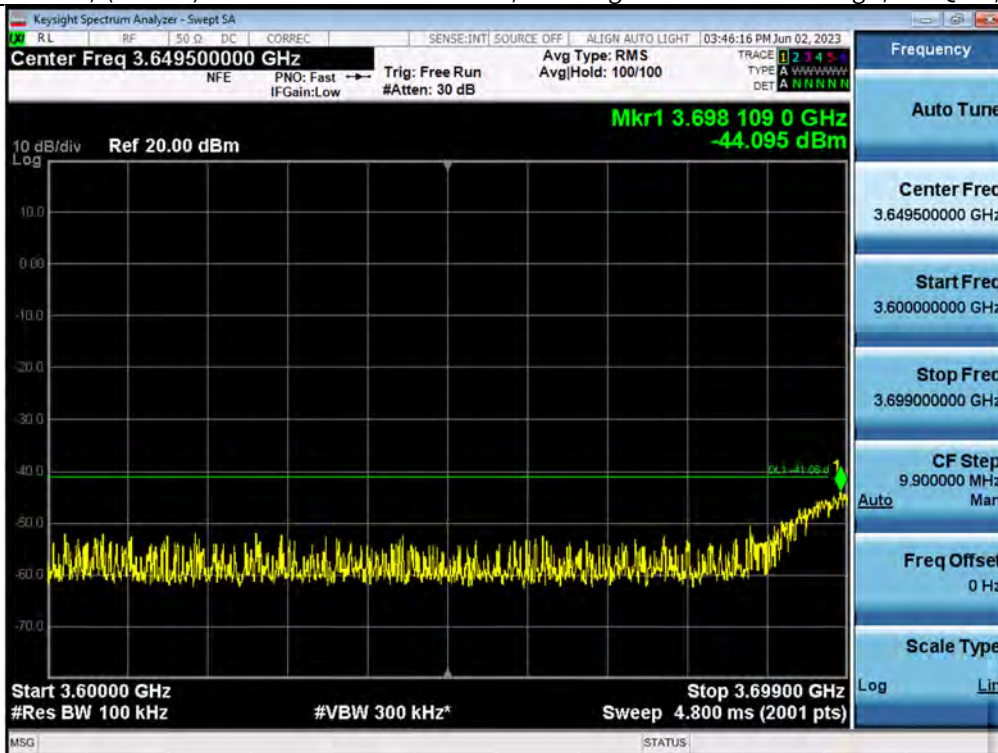




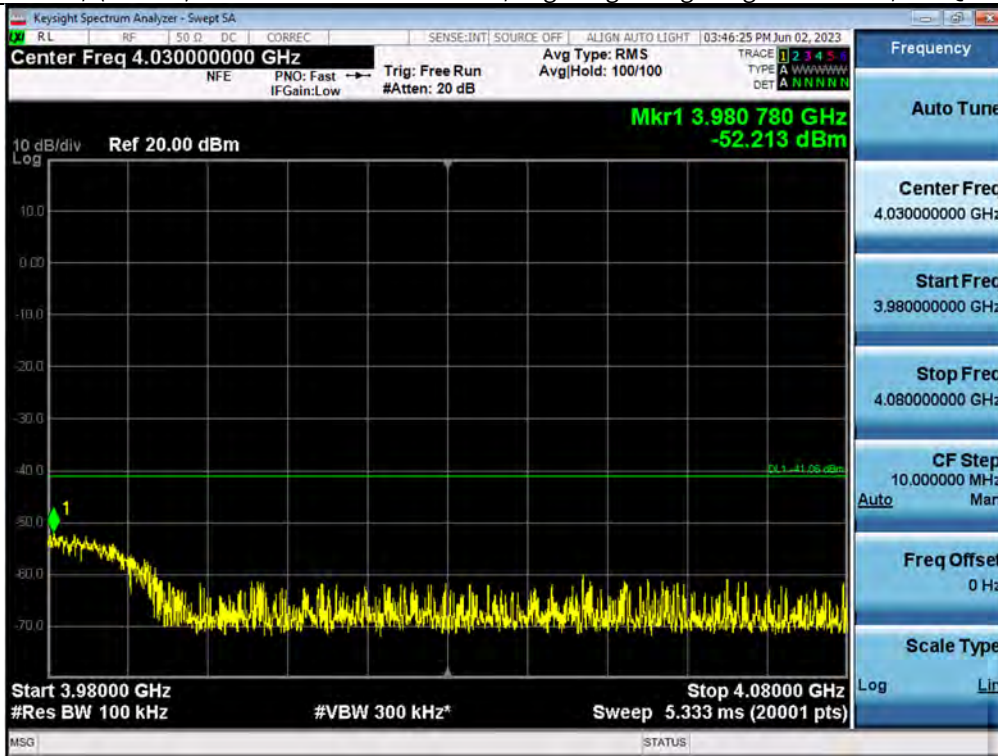
Antenna 19 / (64 Port) 5G NR n77 40 MHz 1 Carrier / 30 MHz ~ Low Edge - 100 MHz / 256QAM / Low



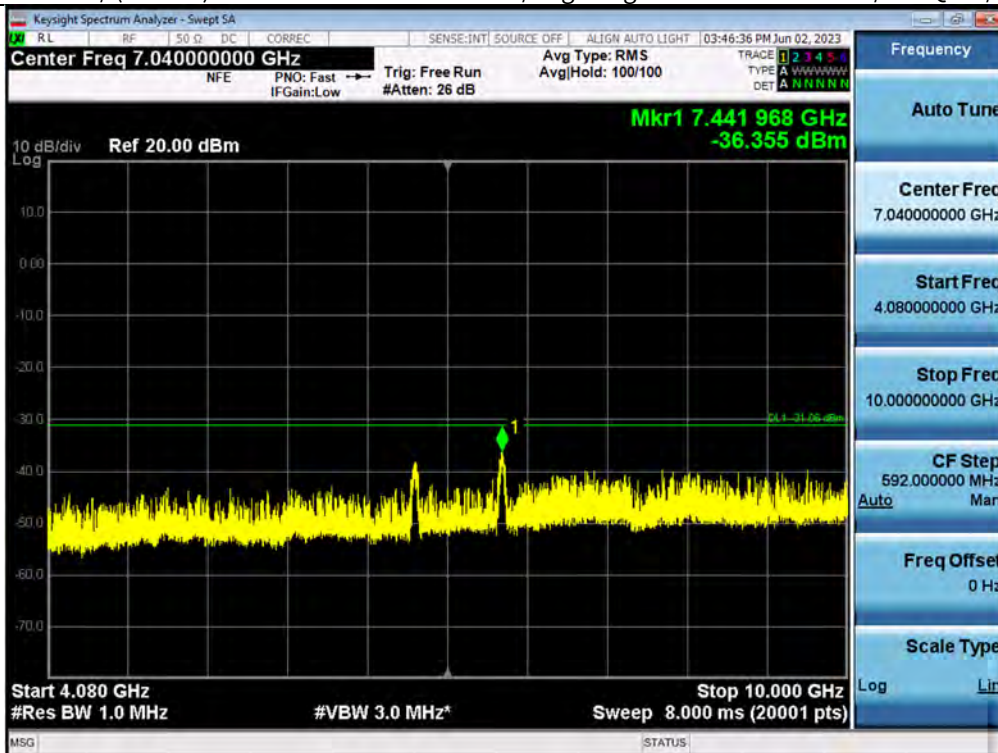
Antenna 19 / (64 Port) 5G NR n77 40 MHz 1 Carrier / Low Edge - 100 MHz ~ Low Edge / 256QAM / Low



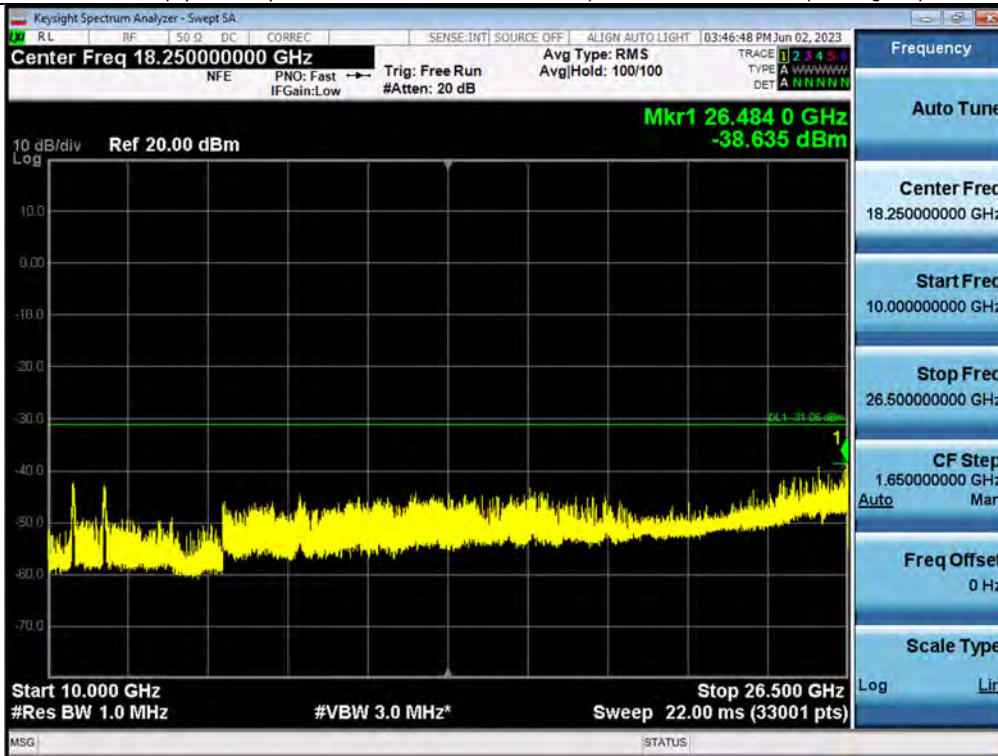
Antenna 19 / (64 Port) 5G NR n77 40 MHz 1 Carrier / High Edge ~ High Edge + 100 MHz / 256QAM / Low



Antenna 19 / (64 Port) 5G NR n77 40 MHz 1 Carrier / High Edge + 100 MHz ~ 10 GHz / 256QAM / Low



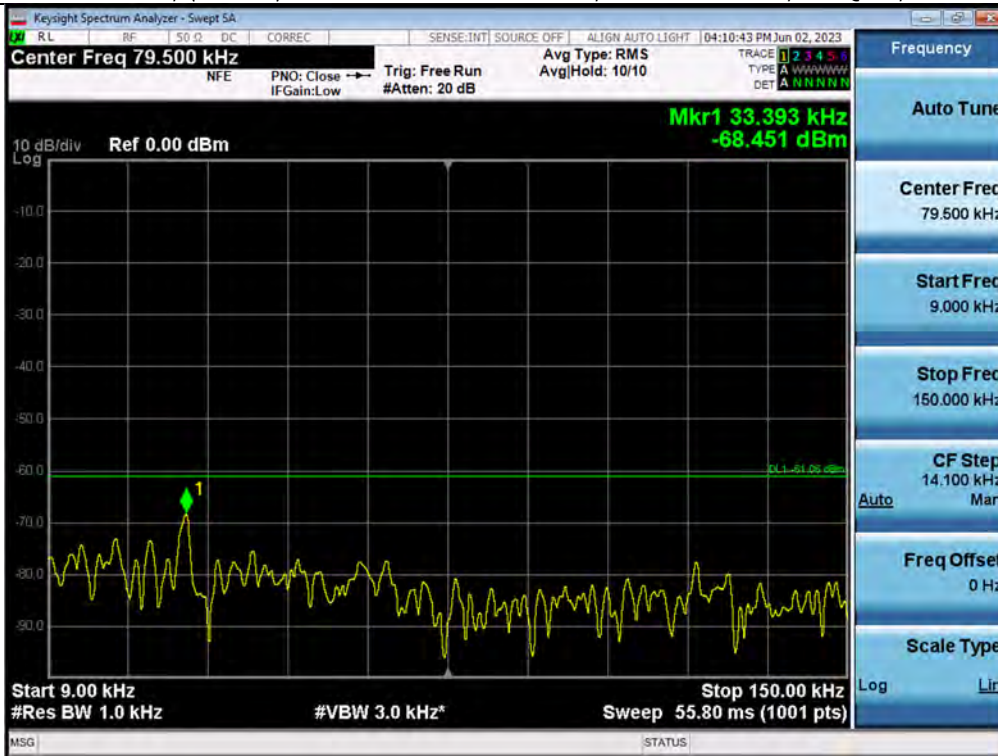
Antenna 19 / (64 Port) 5G NR n77 40 MHz 1 Carrier / 10 GHz ~ 26.5 GHz / 256QAM / Low



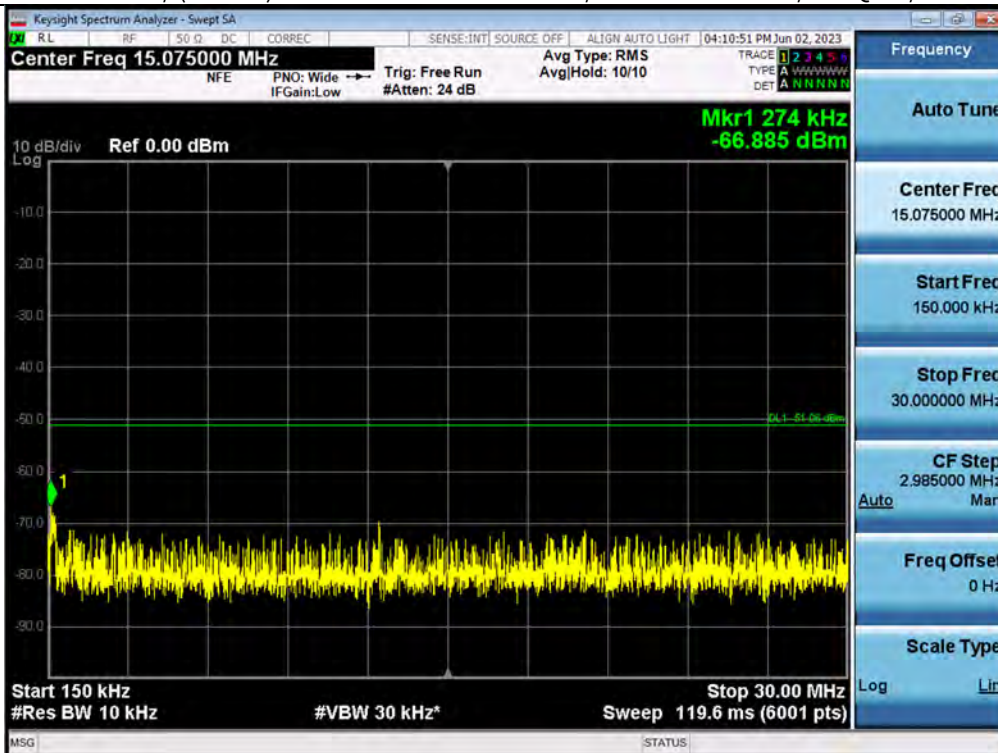
Antenna 19 / (64 Port) 5G NR n77 40 MHz 1 Carrier / 26.5 GHz ~ 40 GHz / 256QAM / Low



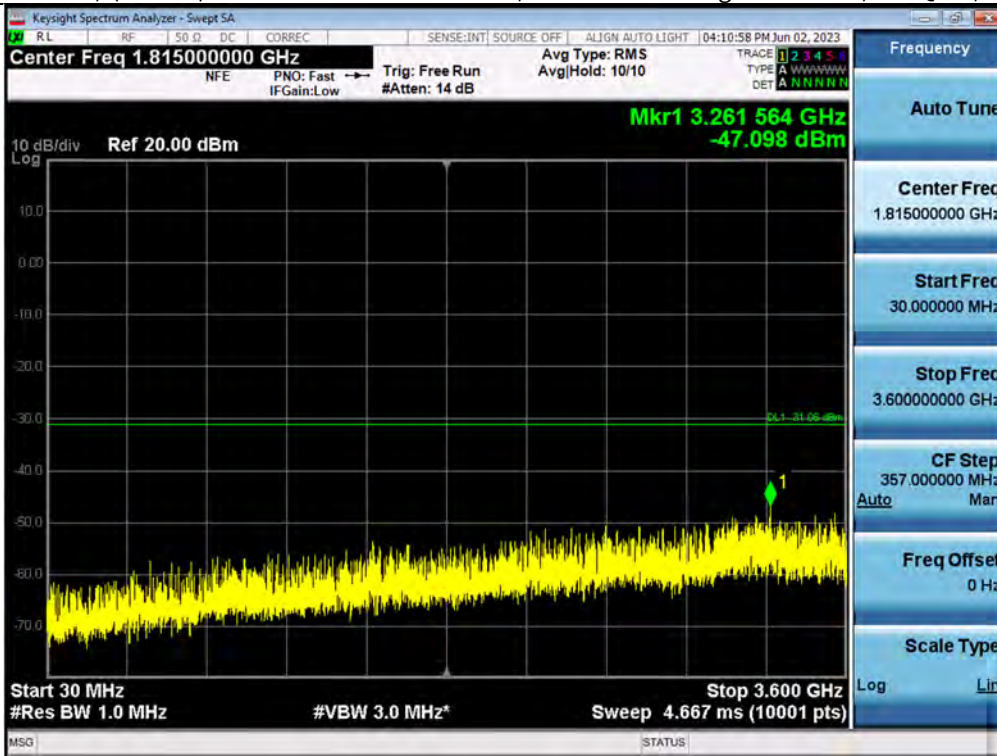
Antenna 1 / (64 Port) 5G NR n77 80 MHz 1 Carrier / 9 kHz ~ 150 kHz / 256QAM / Low



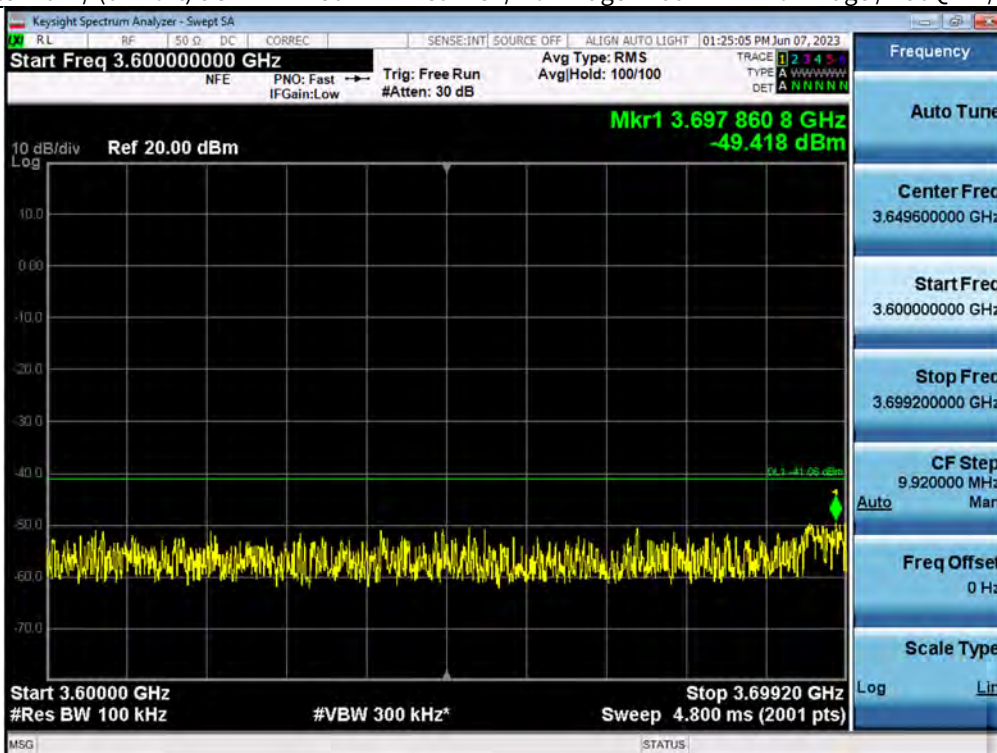
Antenna 1 / (64 Port) 5G NR n77 80 MHz 1 Carrier / 150 kHz ~ 30 MHz / 256QAM / Low



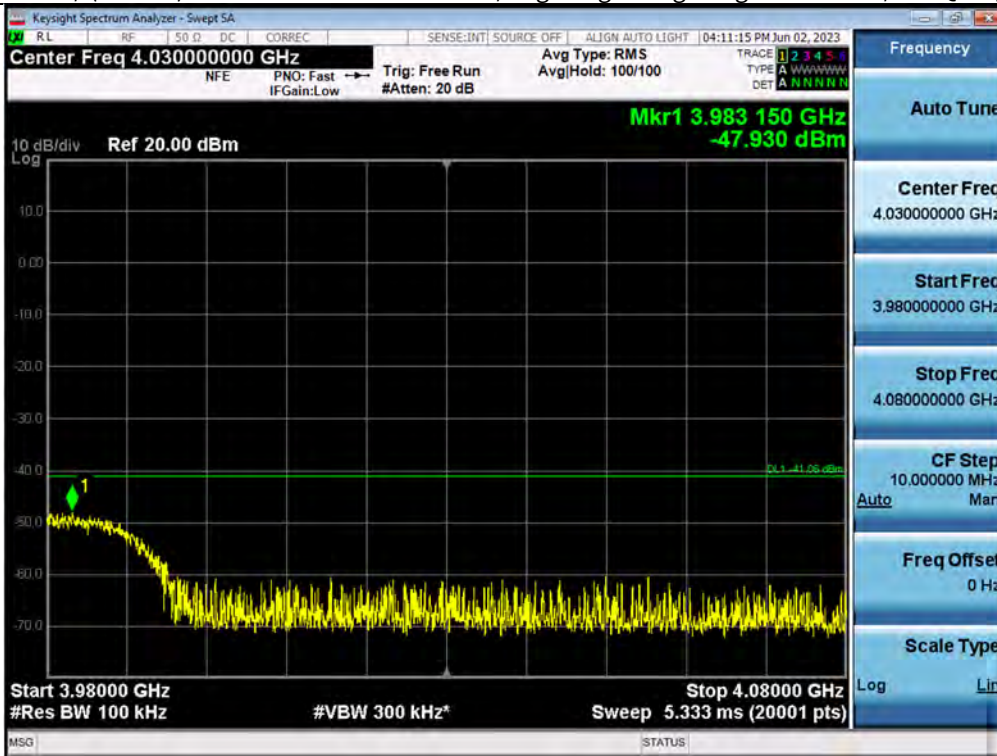
Antenna 1 / (64 Port) 5G NR n77 80 MHz 1 Carrier / 30 MHz ~ Low Edge - 100 MHz / 256QAM / Low



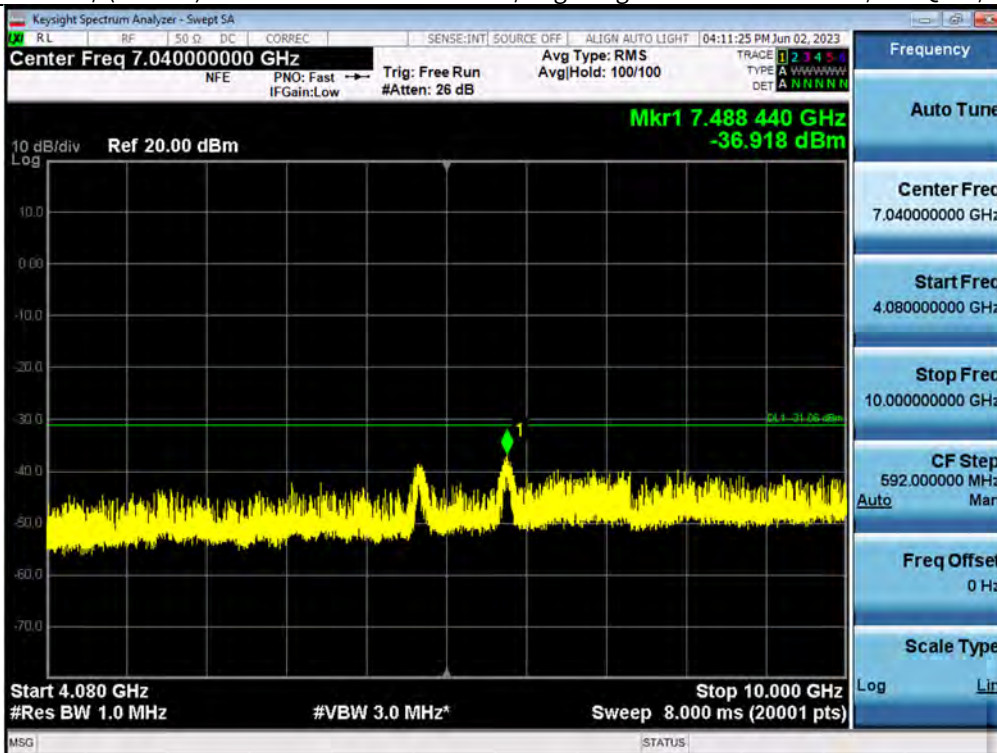
Antenna 1 / (64 Port) 5G NR n77 80 MHz 1 Carrier / Low Edge - 100 MHz ~ Low Edge / 256QAM / Low



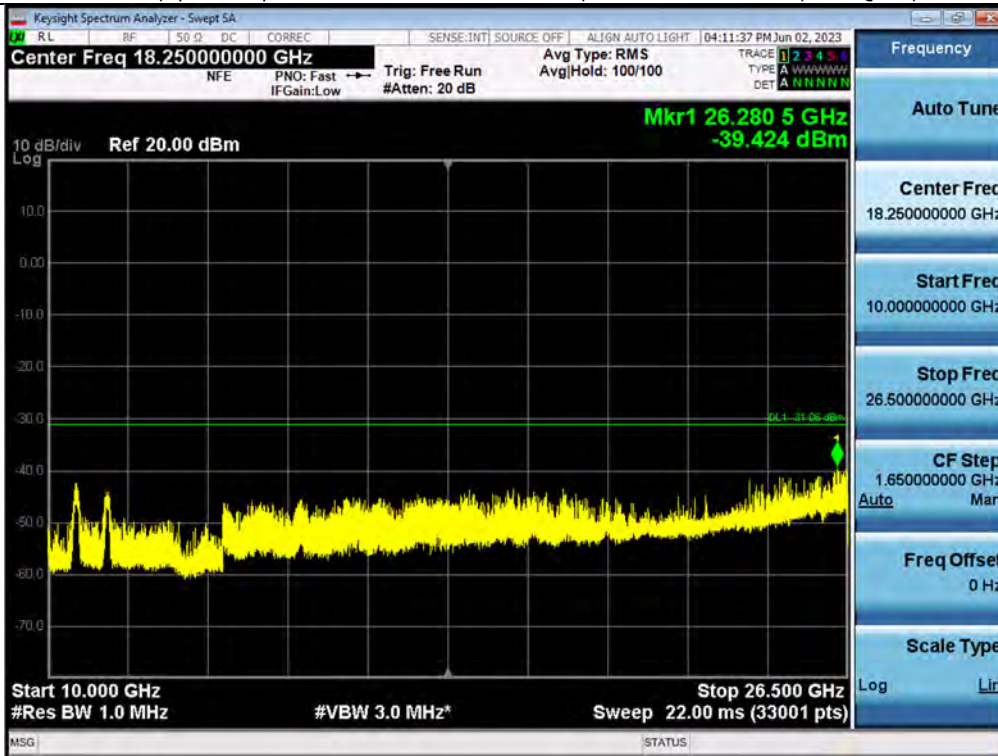
Antenna 1 / (64 Port) 5G NR n77 80 MHz 1 Carrier / High Edge ~ High Edge + 100 MHz / 256QAM / Low



Antenna 1 / (64 Port) 5G NR n77 80 MHz 1 Carrier / High Edge + 100 MHz ~ 10 GHz / 256QAM / Low



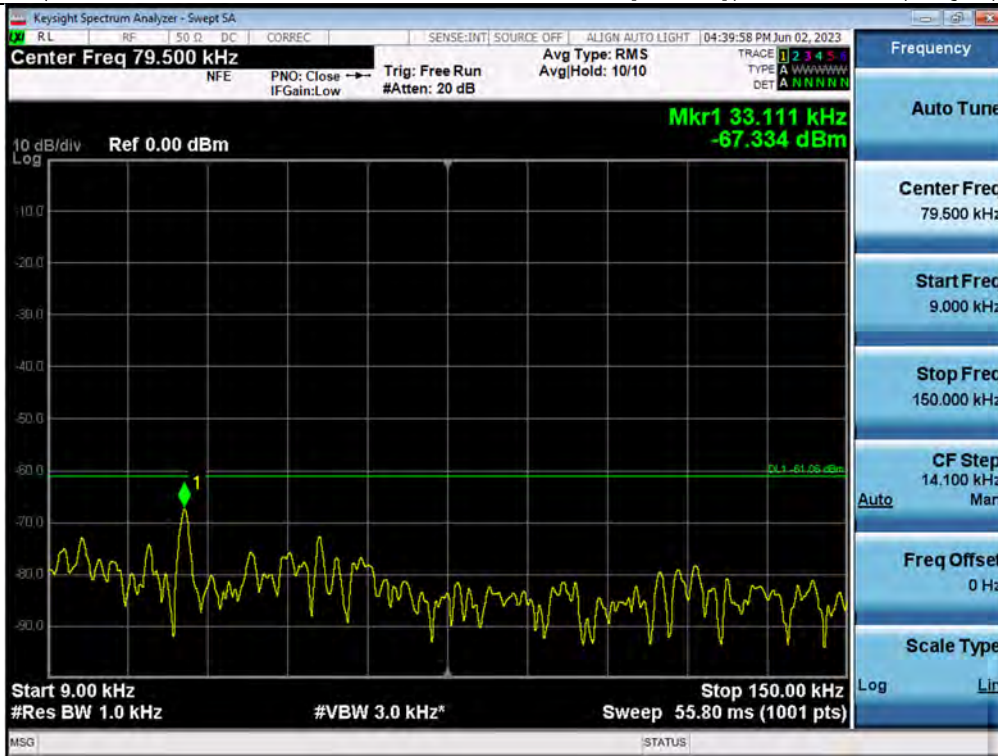
Antenna 1 / (64 Port) 5G NR n77 80 MHz 1 Carrier / 10 GHz ~ 26.5 GHz / 256QAM / Low



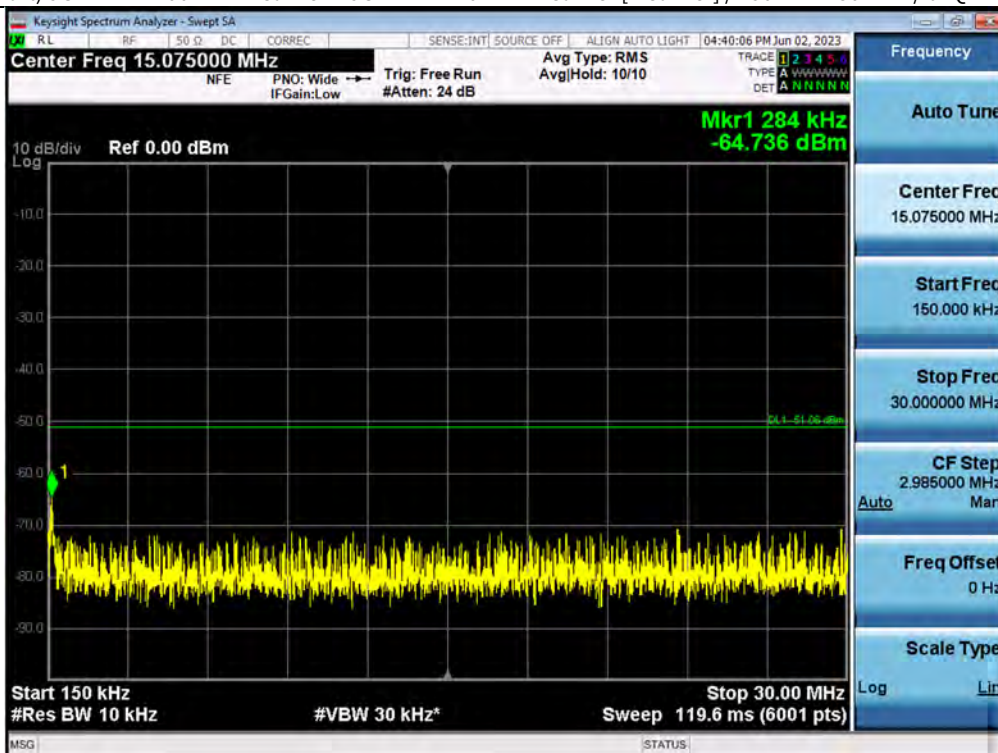
Antenna 1 / (64 Port) 5G NR n77 80 MHz 1 Carrier / 26.5 GHz ~ 40 GHz / 256QAM / Low



Antenna 43 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] / 9 kHz ~ 150 kHz / 64QAM / Low / Contiguous

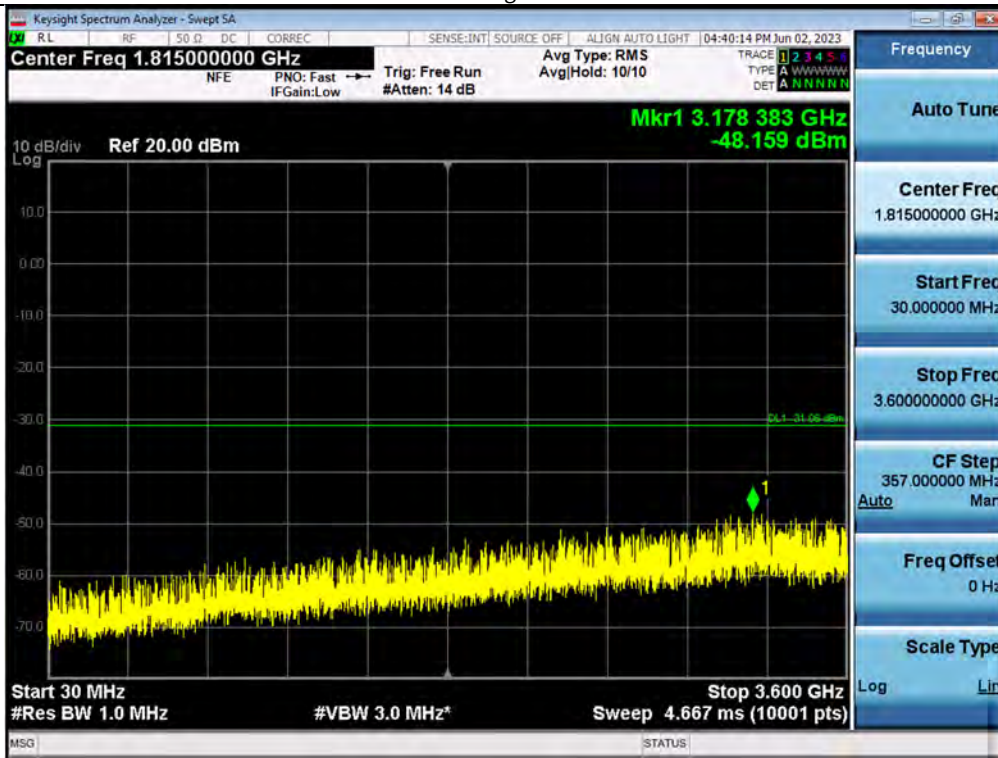


Antenna 43 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] / 150 kHz ~ 30 MHz / 64QAM / Low / Contiguous

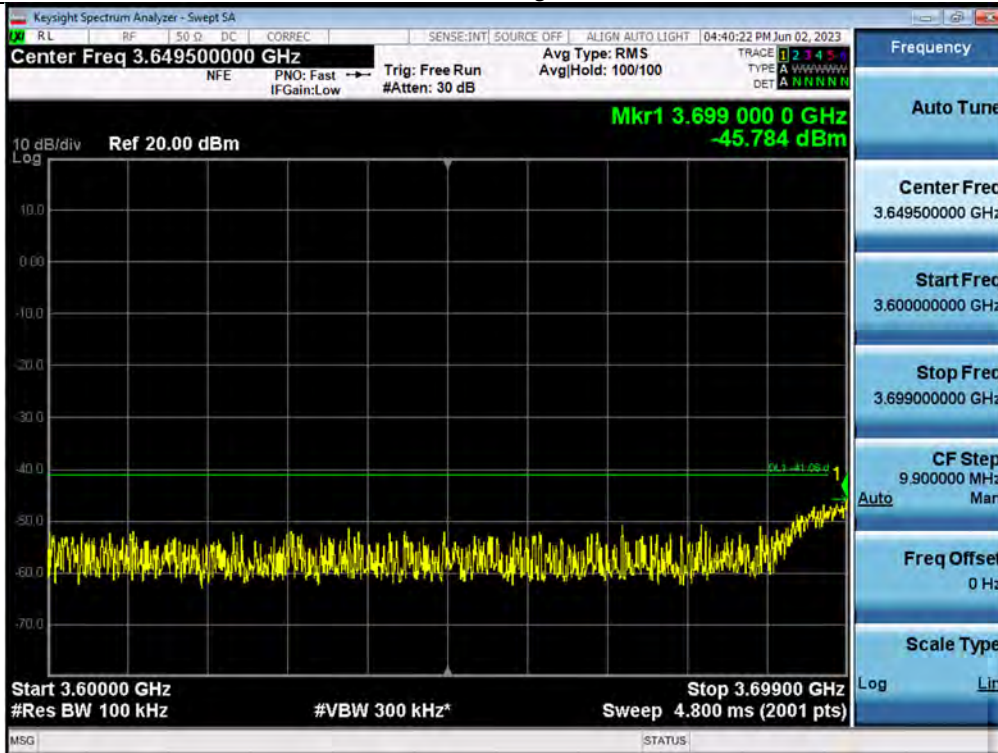




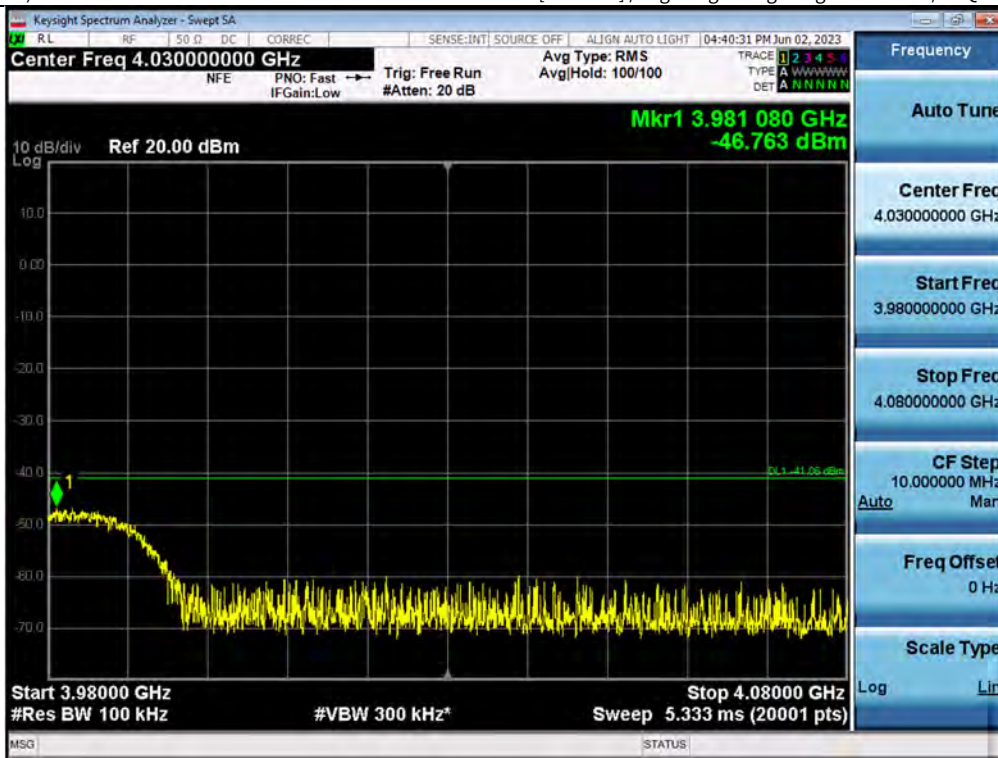
Antenna 43 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] / 30 MHz ~ Low Edge - 100 MHz / 64QAM / Low / Contiguous



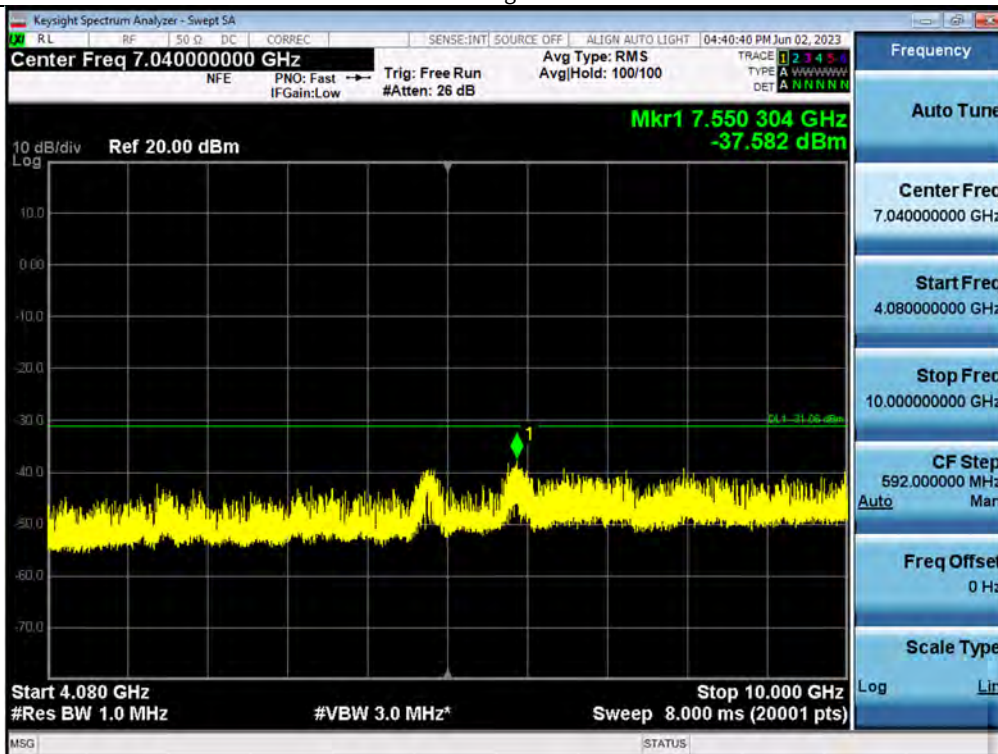
Antenna 43 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] / Low Edge - 100 MHz ~ Low Edge / 64QAM / Low / Contiguous



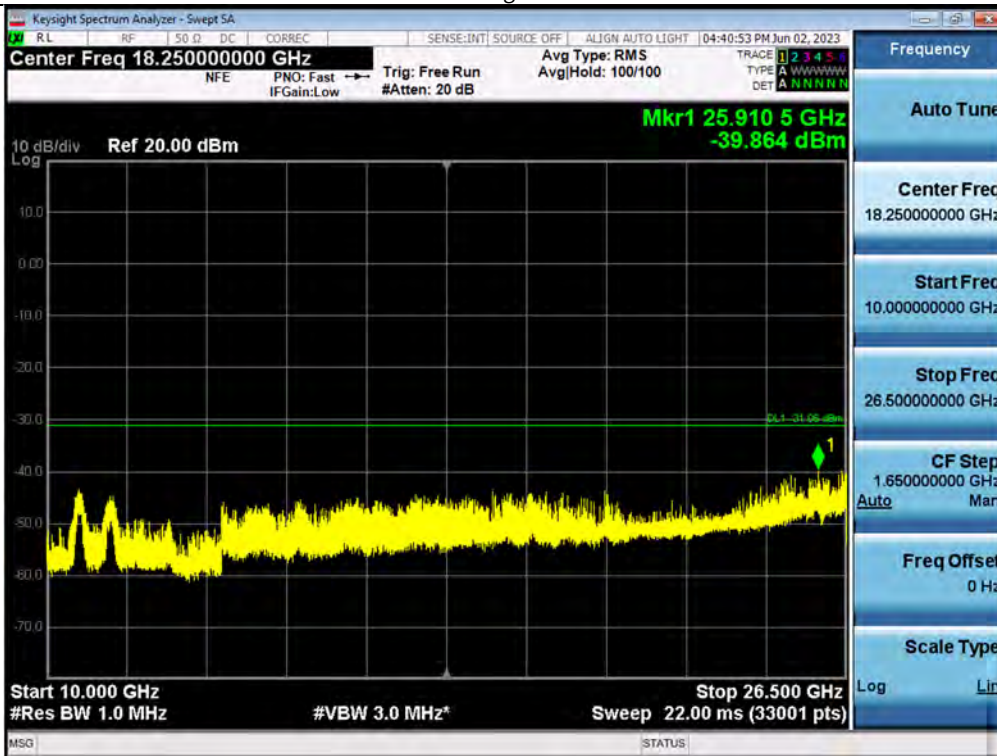
Antenna 43 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] / High Edge ~ High Edge + 100 MHz / 64QAM / Low / Contiguous



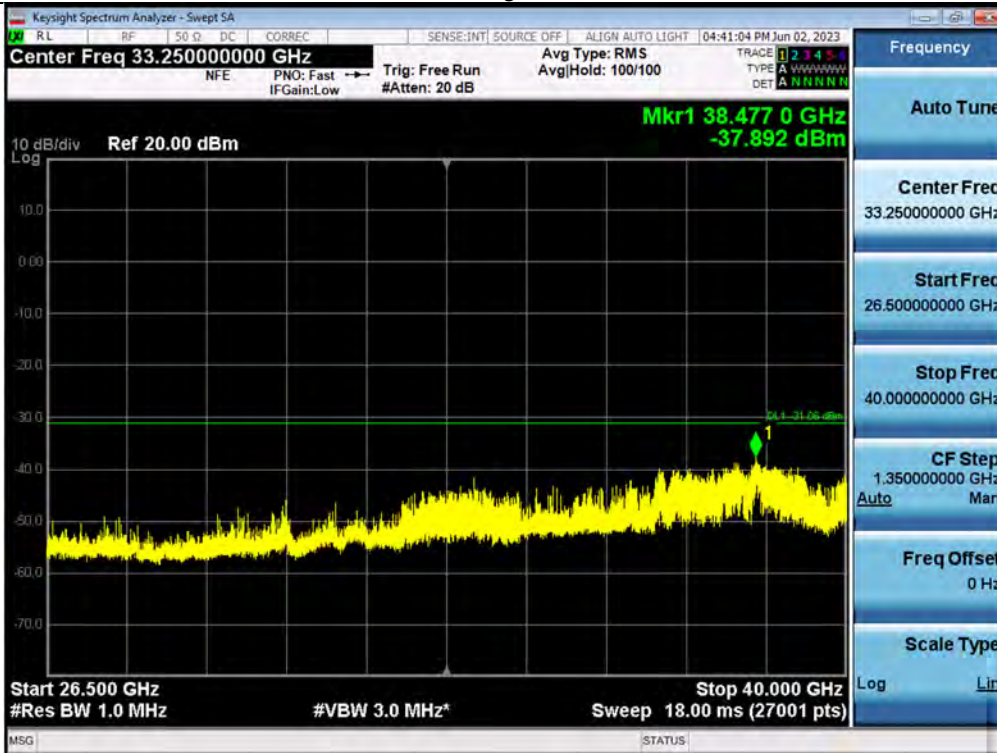
Antenna 43 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] / High Edge + 100 MHz ~ 10 GHz / 64QAM / Low / Contiguous



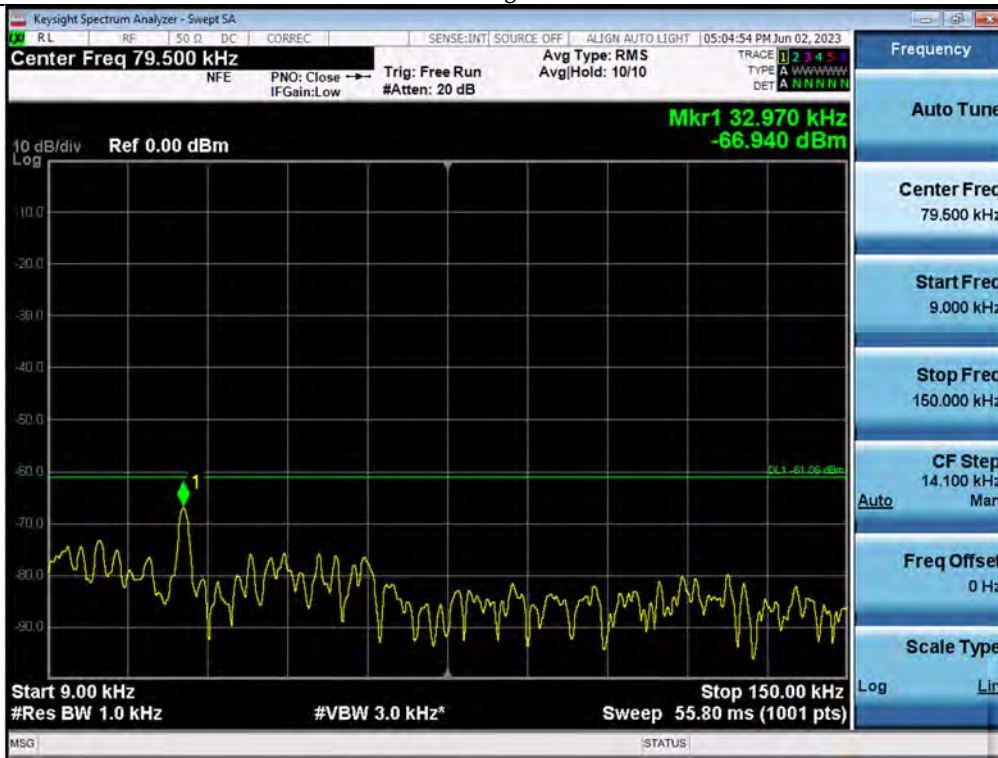
Antenna 43 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] / 10 GHz ~ 26.5 GHz / 64QAM / Low / Contiguous



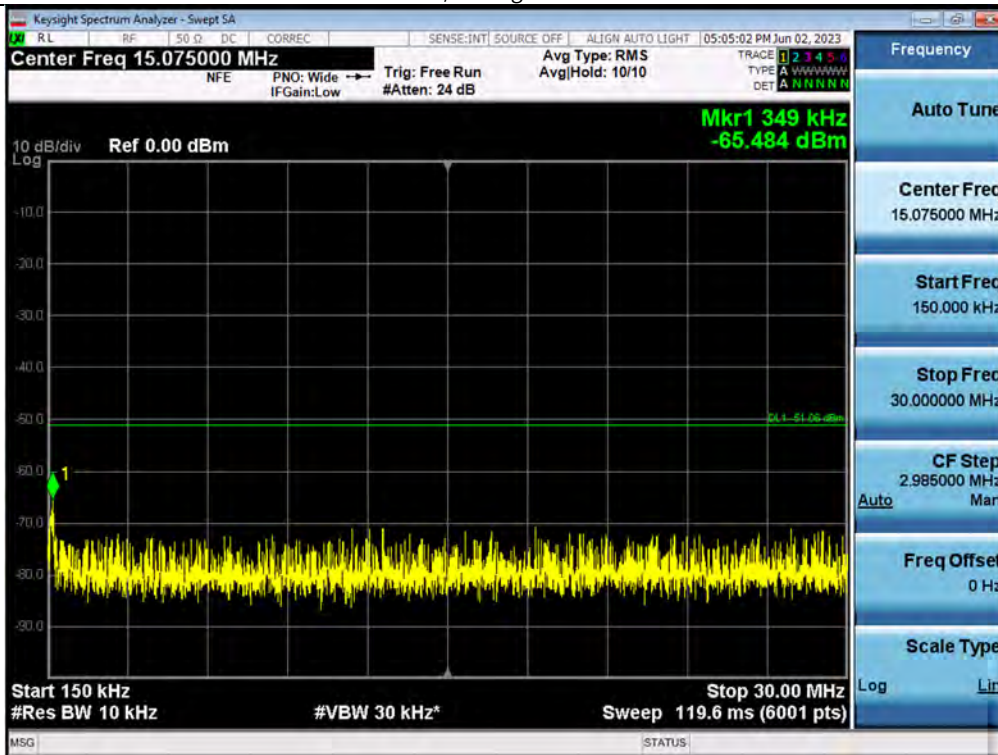
Antenna 43 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] / 26.5 GHz ~ 40 GHz / 64QAM / Low / Contiguous



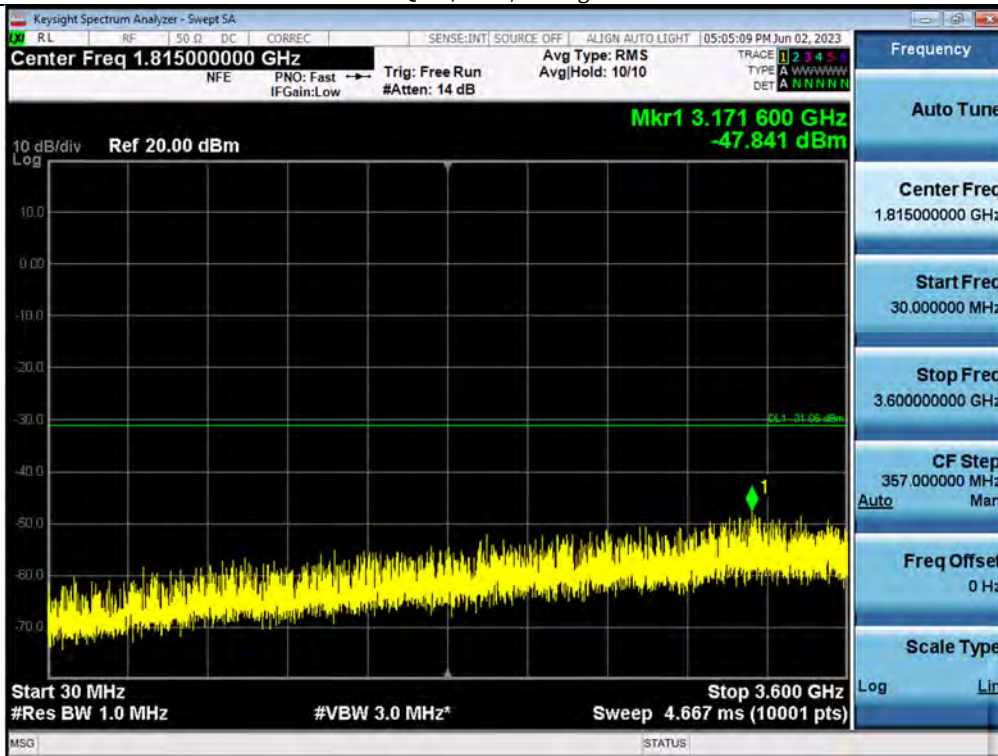
Antenna 1 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] (Asymmetric) / 9 kHz ~ 150 kHz / 64QAM / Low / Contiguous



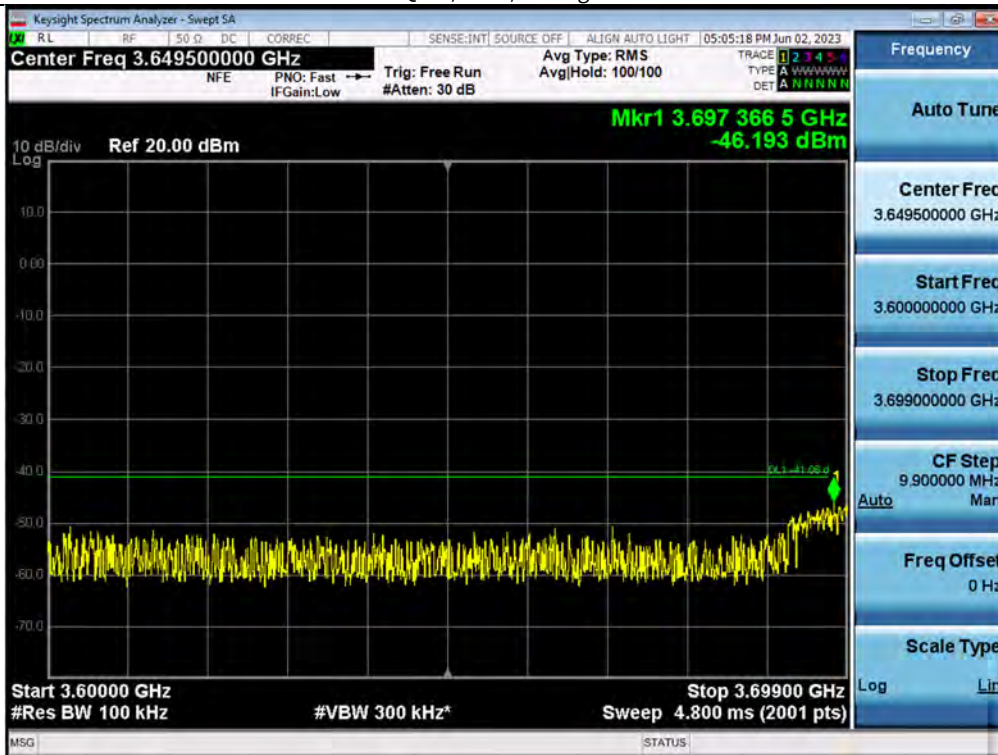
Antenna 1 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] (Asymmetric) / 150 kHz ~ 30 MHz / 64QAM / Low / Contiguous



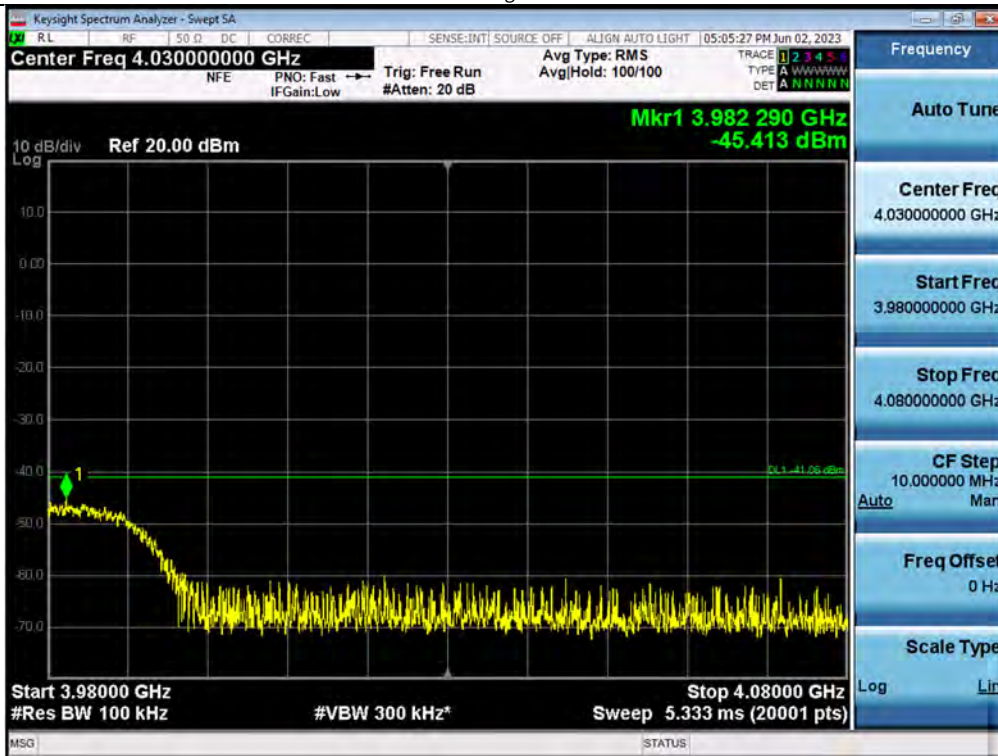
Antenna 1 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] (Asymmetric) / 30 MHz ~ Low Edge - 100 MHz / 64QAM / Low / Contiguous



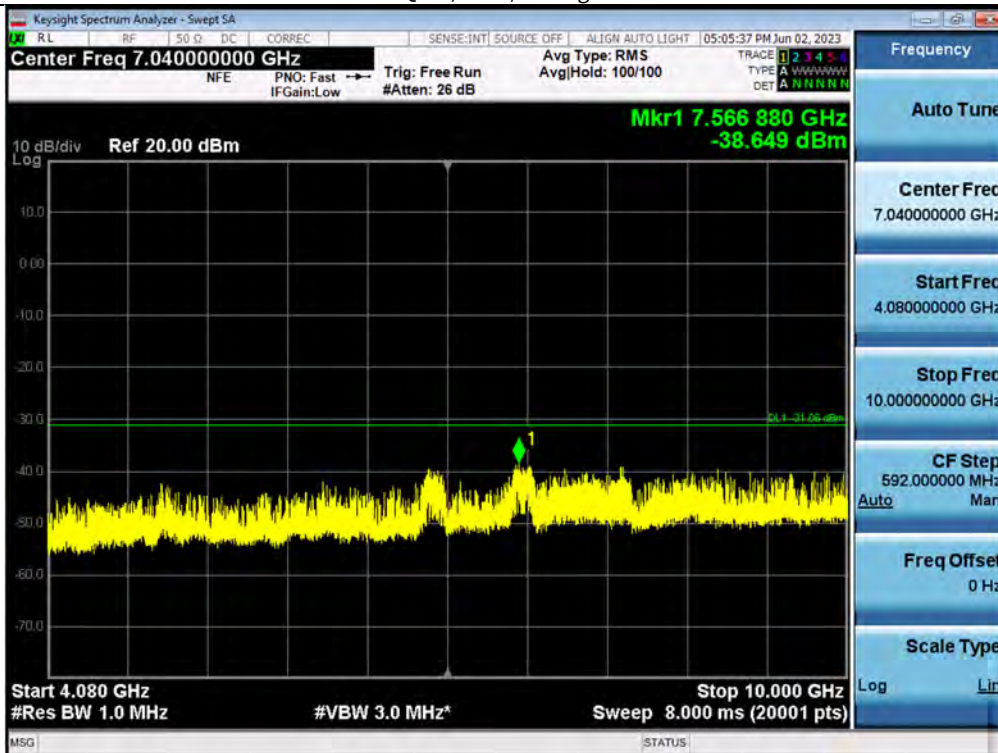
Antenna 1 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] (Asymmetric) / Low Edge - 100 MHz ~ Low Edge / 64QAM / Low / Contiguous



Antenna 1 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] (Asymmetric) / High Edge ~ High Edge + 100 MHz / 64QAM / Low / Contiguous



Antenna 1 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] (Asymmetric) / High Edge + 100 MHz ~ 10 GHz / 64QAM / Low / Contiguous



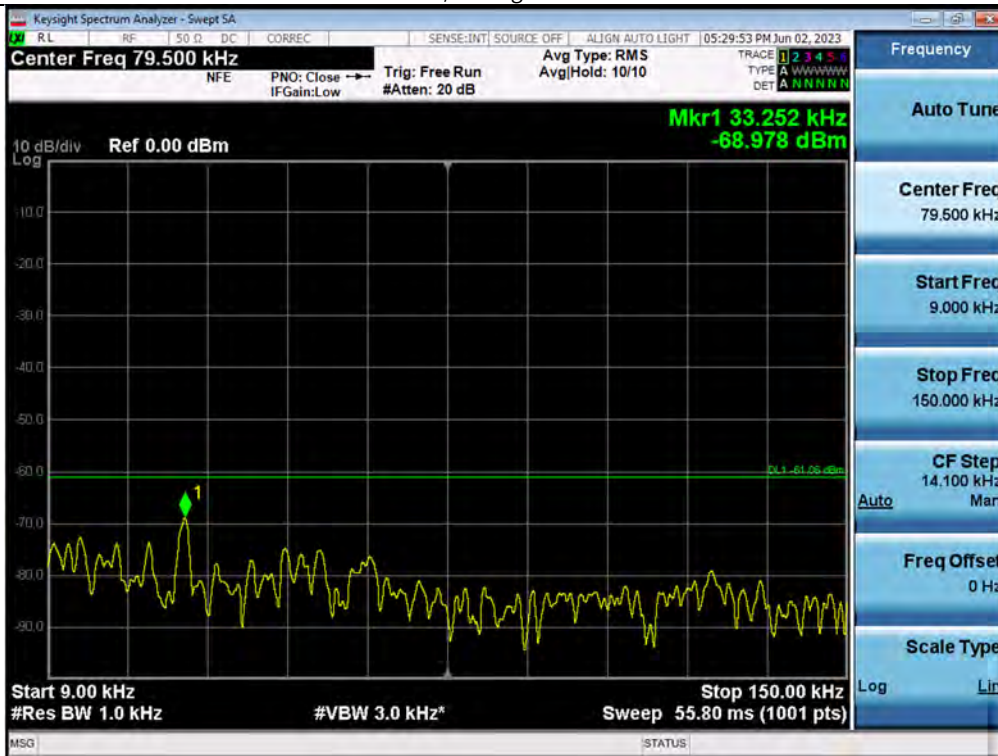
Antenna 1 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] (Asymmetric) / 10 GHz ~ 26.5 GHz / 64QAM / Low / Contiguous



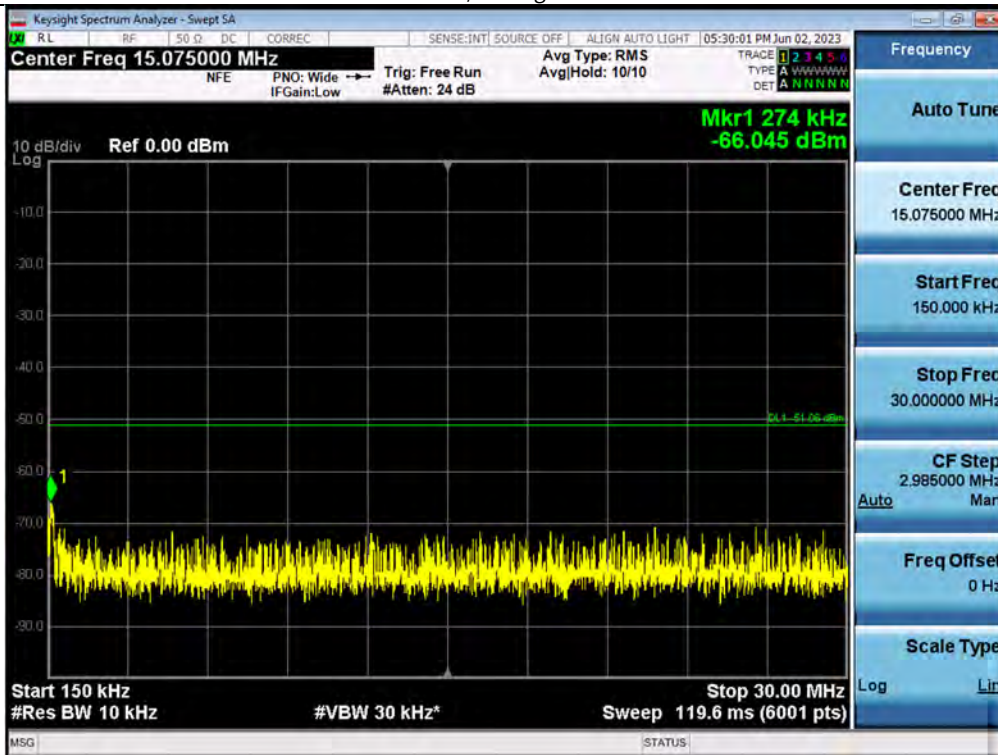
Antenna 1 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 40 MHz 1 Carrier [2 Carrier] (Asymmetric) / 26.5 GHz ~ 40 GHz / 64QAM / Low / Contiguous



Antenna 25 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 100 MHz 1 Carrier [2 Carrier] (Asymmetric) / 9 kHz ~ 150 kHz / 64QAM / Low / Contiguous

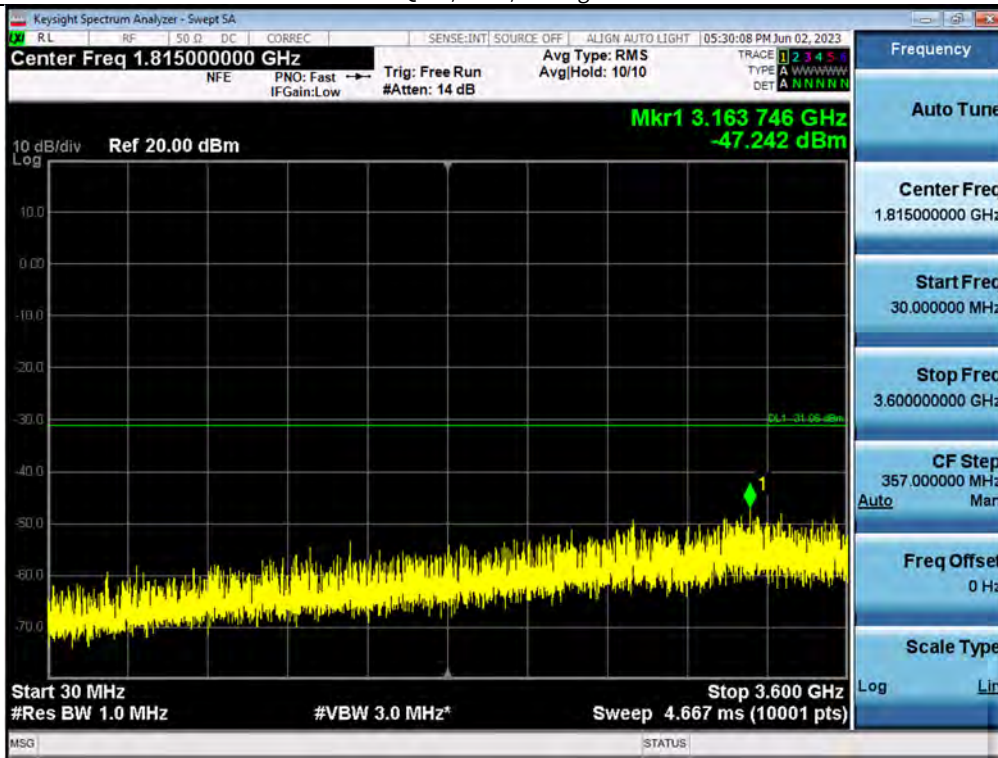


Antenna 25 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 100 MHz 1 Carrier [2 Carrier] (Asymmetric) / 150 kHz ~ 30 MHz / 64QAM / Low / Contiguous

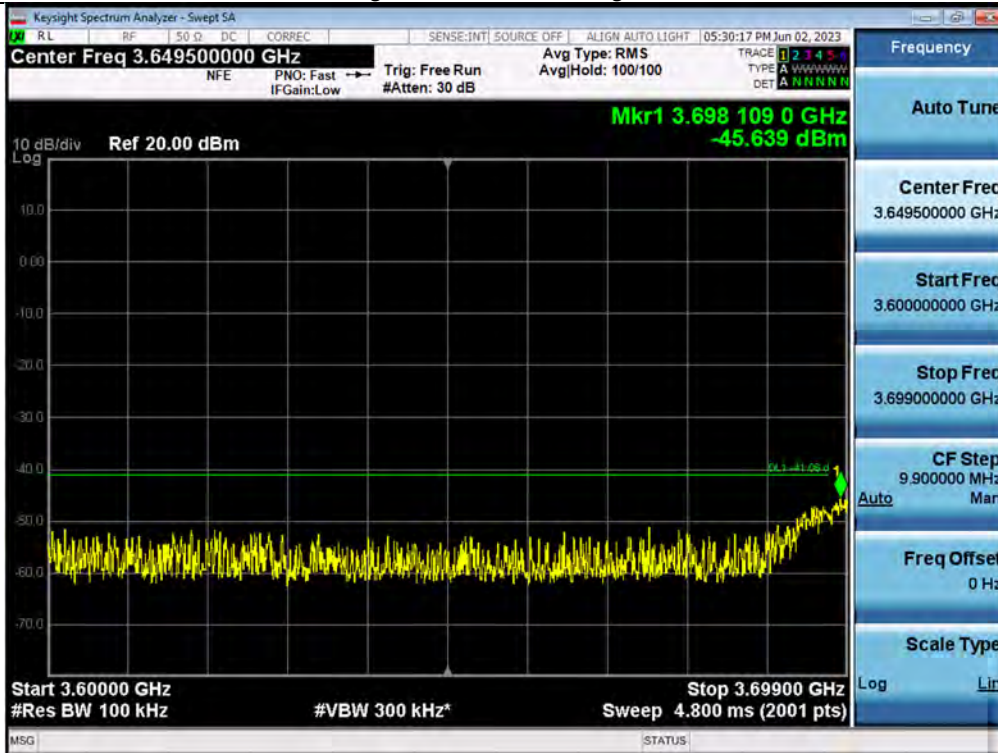




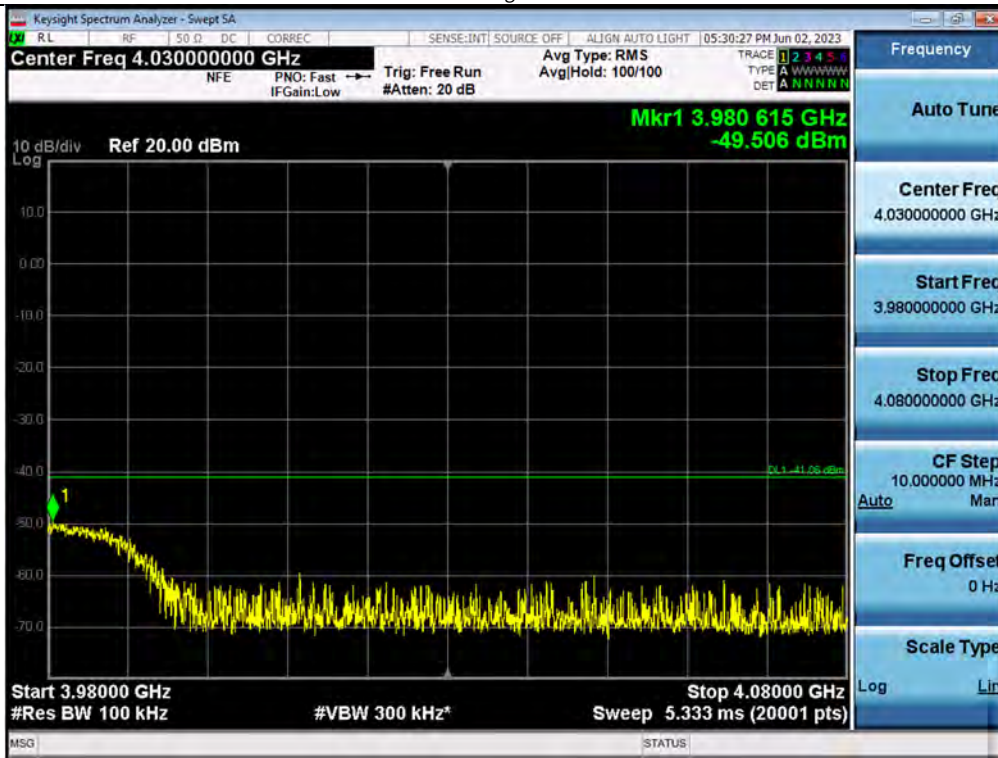
Antenna 25 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 100 MHz 1 Carrier [2 Carrier] (Asymmetric) / 30 MHz ~ Low Edge - 100 MHz / 64QAM / Low / Contiguous



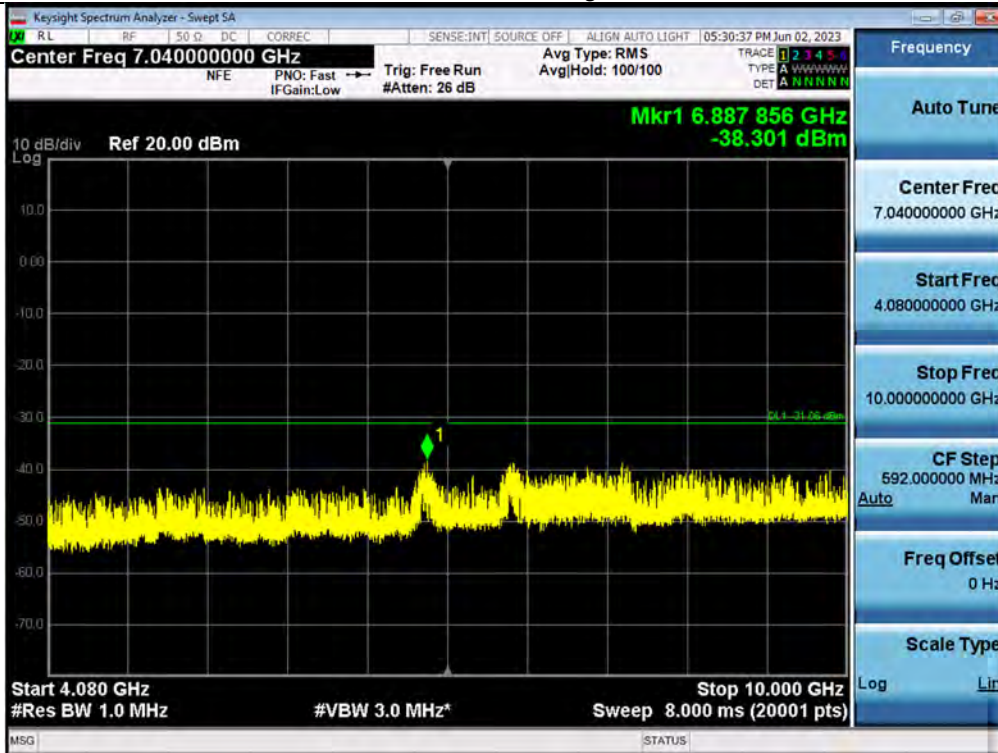
Antenna 25 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 100 MHz 1 Carrier [2 Carrier] (Asymmetric) / Low Edge - 100 MHz ~ Low Edge / 64QAM / Low / Contiguous



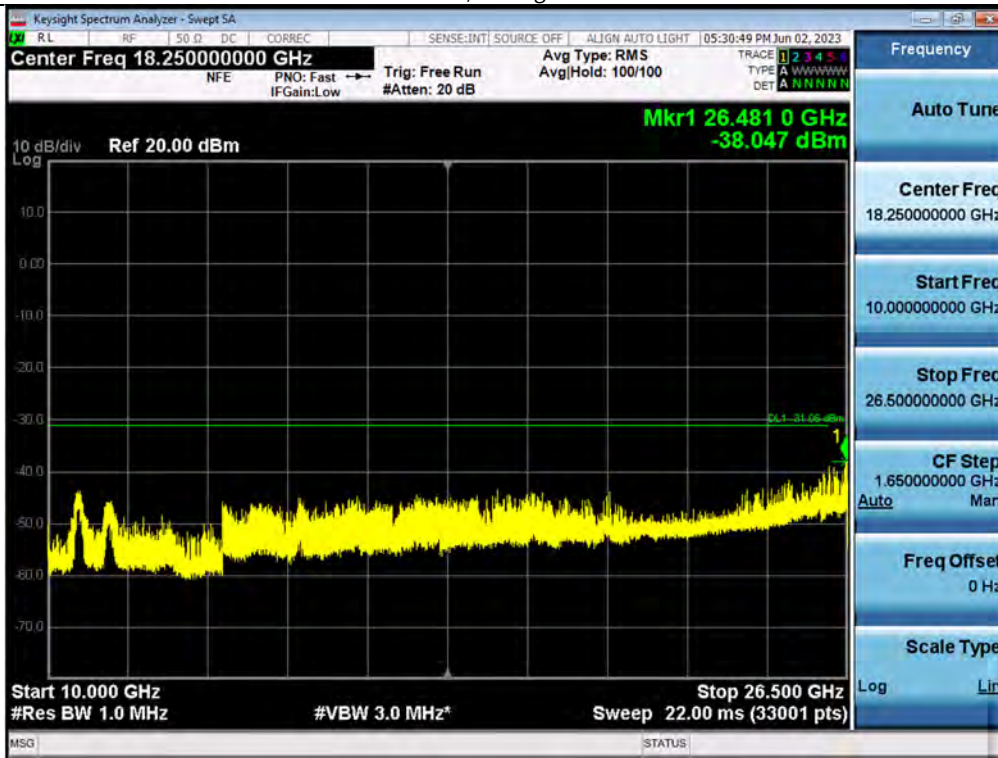
Antenna 25 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 100 MHz 1 Carrier [2 Carrier] (Asymmetric) / High Edge ~ High Edge + 100 MHz / 64QAM / Low / Contiguous



Antenna 25 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 100 MHz 1 Carrier [2 Carrier] (Asymmetric) / High Edge + 100 MHz ~ 10 GHz / 64QAM / Low / Contiguous



Antenna 25 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 100 MHz 1 Carrier [2 Carrier] (Asymmetric) / 10 GHz ~ 26.5 GHz / 64QAM / Low / Contiguous



Antenna 25 / (64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 100 MHz 1 Carrier [2 Carrier] (Asymmetric) / 26.5 GHz ~ 40 GHz / 64QAM / Low / Contiguous



## 5.6. RADIATED EMISSIONS

### Test Requirements:

#### § 2.1053 Measurements required: Field strength of spurious radiation.

- (a) Measurements shall be made to detect spurious emissions that may be radiated directly from the cabinet, control circuits, power leads, or intermediate circuit elements under normal conditions of installation and operation. Curves or equivalent data shall be supplied showing the magnitude of each harmonic and other spurious emission. For this test, single sideband, independent sideband, and controlled carrier transmitters shall be modulated under the conditions specified in paragraph (c) of § 2.1049, as appropriate. For equipment operating on frequencies below 890 MHz, an open field test is normally required, with the measuring instrument antenna located in the far-field at all test frequencies. In the event it is either impractical or impossible to make open field measurements (e.g. a broadcast transmitter installed in a building) measurements will be accepted of the equipment as installed. Such measurements must be accompanied by a description of the site where the measurements were made showing the location of any possible source of reflections which might distort the field strength measurements. Information submitted shall include the relative radiated power of each spurious emission with reference to the rated power output of the transmitter, assuming all emissions are radiated from halfwave dipole antennas.
- (b) The measurements specified in paragraph (a) of this section shall be made for the following equipment:
- (1) Those in which the spurious emissions are required to be 60 dB or more below the mean power of the transmitter.
  - (2) All equipment operating on frequencies higher than 25 MHz.
  - (3) All equipment where the antenna is an integral part of, and attached directly to the transmitter.
  - (4) Other types of equipment as required, when deemed necessary by the Commission.

#### § 27.53 Emission limits.

- (l) 3.7 GHz Service. The following emission limits apply to station transmitting in the 3700-3980 MHz band:
- (1) For base station operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (l)(1) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

**Test Procedures:**

The measurement is performed in accordance with Section 5.5.3.2 of ANSI C63.26.

- a) Place the EUT in the center of the turntable. The EUT shall be configured to transmit into the standard non-radiating load (for measuring radiated spurious emissions), connected with cables of minimal length unless specified otherwise. If the EUT uses an adjustable antenna, the antenna shall be positioned to the length that produces the worst case emission at the fundamental operating frequency.
- b) Each emission under consideration shall be evaluated:
  - 1) Raise and lower the measurement antenna in accordance 5.5.2, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
  - 2) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
  - 3) Return the turntable to the azimuth where the highest emission amplitude level was observed.
  - 4) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
  - 5) Record the measured emission amplitude level and frequency using the appropriate RBW.
- c) Repeat step b) for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.
- d) ~ j) Omitted
- k) Provide the complete measurement results as a part of the test report.

**Note:**

1. We have done horizontal and vertical polarization in detecting antenna.
2. The amplitude of the spurious domain emission attenuated by more than 20 dB over the permissible value was not recorded according to ANSI C63.26, clause 5.1.1., c).
3. The results of the Radiated Emissions test shown above are measured at maximum power, and data values are attached only in the worst case.
4. Measure distance = 3 m

**Test Results:**

Freq.(MHz)	Measured Level	Ant. Factor	A.G.+C.L.+H.P.F.	Pol.	Measured Power	Result
	[dBuV]	[dB/m]	[dB]		[dBm]	[dBm/m]

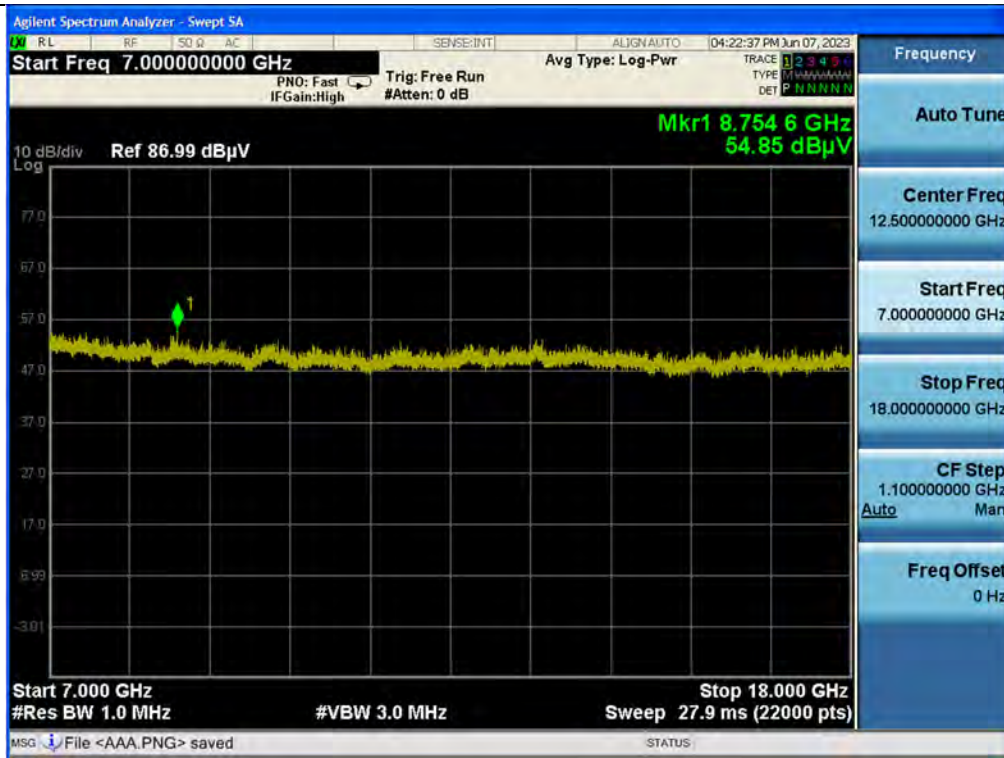
No Critical Peaks Found.

\* C.L.: Cable Loss / A.G.: Amp Gain / H.P.F.: High Pass Filter

\*Result: (Measured Level – 95.2) + Ant. Factor – (A.G.+C.L.+H.P.F.)

**Plot data of Radiated Emissions**

(64 Port) 5G NR n77 100 MHz 1 Carrier + 5G NR n77 100 MHz 1 Carrier [2 Carrier] (Asymmetric)



**Note:** Only the worst case plots for Radiated Spurious Emissions.

## 5.7. FREQUENCY STABILITY

### Test Requirements:

#### § 2.1055 Measurements required: Frequency stability.

- (a) The frequency stability shall be measured with variation of ambient temperature as follows:
- (1) From  $-30^{\circ}$  to  $+50^{\circ}$  centigrade for all equipment except that specified in paragraphs (a) (2) and (3) of this section.

#### § 27.54 Frequency stability.

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

### Test Procedures:

The measurement is performed in accordance with Section 5.6.3, 5.6.4 and 5.6.5 of ANSI C63.26.

#### 5.6.3 Procedure for frequency stability testing

Frequency stability is a measure of the frequency drift due to temperature and supply voltage variations, with reference to the frequency measured at  $+20^{\circ}\text{C}$  and rated supply voltage.

The operating carrier frequency shall be set up in accordance with the manufacturer's published operation and instruction manual prior to the commencement of these tests. No adjustment of any frequency determining circuit element shall be made subsequent to this initial set-up. Frequency stability is tested:

- a) At  $10^{\circ}\text{C}$  intervals of temperatures between  $-30^{\circ}\text{C}$  and  $+50^{\circ}\text{C}$  at the manufacturer's rated supply voltage, and
- b) At  $+20^{\circ}\text{C}$  temperature and  $\pm 15\%$  supply voltage variations. If a product is specified to operate over a range of input voltage then the  $-15\%$  variation is applied to the lowermost voltage and the  $+15\%$  is applied to the uppermost voltage.

During the test all necessary settings, adjustments and control of the EUT have to be performed without disturbing the test environment, i.e., without opening the environmental chamber. The frequency stabilities can be maintained to a lesser temperature range provided that the transmitter is automatically inhibited from operating outside the lesser temperature range. For handheld equipment that is only capable of operating from internal batteries and the supply voltage cannot be varied, the frequency stability tests shall be performed at the nominal battery voltage and the battery end point voltage specified by the manufacturer. An external supply voltage can be used and set at the internal battery nominal voltage, and again at the battery operating end point voltage which shall be specified by the equipment manufacturer.

If an unmodulated carrier is not available, the mean frequency of a modulated carrier can be obtained by using a frequency counter with gating time set to an appropriately large multiple of bit periods (gating time depending on the required accuracy).

Full details on the choice of values shall be included in the test report.

#### 5.6.4 Frequency stability over variations in temperature

- a) Supply the EUT with a nominal 60 Hz ac voltage, dc voltage, or install a new or fully charged battery in the EUT.
- b) If possible a dummy load should be connected to the EUT because an antenna near the metallic walls of an environmental test chamber could affect the output frequency of the EUT. If the EUT is equipped with a permanently attached, adjustable-length antenna, the EUT should be placed in the center of the chamber with the antenna adjusted to the shortest length

possible.

- c) Turn on the EUT, and tune it to the center frequency of the operating band.
- d) Couple the transmitter output to the measuring instrument through a suitable attenuator and coaxial cable. If connection to the EUT output is not possible, make the measurement by connecting an antenna to the measuring instrument with a suitable length of coaxial cable and placing the measuring antenna near the EUT (e.g., 15 cm away).  
NOTE—An instrument that has an adequate level of accuracy as specified by the procuring or regulatory authority is the recommended measuring instrument.
- e) Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument, but is strong enough to allow measurement of the operating or fundamental frequency of the EUT). Adjust the detector bandwidth and span settings to achieve a resolution capable of accurate frequency measurements over the applicable frequency stability limits.
- f) Turn the EUT off, and place it inside the environmental temperature chamber. For devices that have oscillator heaters, energize only the heater circuit.
- g) Set the temperature control on the chamber to the Highest temperature specified in the regulatory requirements for the type of device, and allow the oscillator heater and the chamber temperature to stabilize. Unless otherwise instructed by the regulatory authority, this temperature should be 50 °C.
- h) While maintaining a constant temperature inside the environmental chamber, turn on the EUT and allow sufficient time for the EUT temperature to stabilize.
- i) Measure the frequency.
- j) Switch off the EUT, but do not switch off the oscillator heater.
- k) Lower the chamber temperature to the next level that is required by the standard and allow the temperature inside the chamber to stabilize. Unless otherwise instructed by the regulators, this temperature step should be 10 °C.
- l) Repeat step h) through step k) down to the lowest specified temperature. Unless otherwise instructed by the regulators, this temperature should be –30 °C. When the frequency stability limit is stated as being sufficient such that the fundamental emissions stay within the authorized bands of operation, a reference point shall be established at the applicable unwanted emissions limit using a RBW equal to the RBW required by the unwanted emissions specification of the applicable regulatory standard. These reference points measured using the lowest and Highest channel of operation shall be identified as  $f_L$  and  $f_H$  respectively. The worst-case frequency offset determined in the above methods shall be added or subtracted from the values of  $f_L$  and  $f_H$  and the resulting frequencies must remain within the band.
- m) Omitted

#### 5.6.5 Frequency stability when varying supply voltage

- a) Couple the transmitter output to the measuring instrument through a suitable attenuator and coaxial cable. If connection to the EUT output is not possible make the measurement by connecting an antenna to the measuring instrument with a suitable length of coaxial cable and placing the measuring antenna near the EUT (e.g., 15 cm away)
- b) Supply the EUT with nominal ac or dc voltage. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided. Effects on frequency of transmitter keying (except for broadcast transmitters) and any heating element cycling at the nominal supply voltage and



at each extreme also shall be shown.

- c) Turn on the EUT, and couple its output to a frequency counter or other frequency-measuring instrument.
- d) Tune the EUT to the center frequency of the operating band. Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument, but is strong enough to allow measurement of the operating or fundamental frequency of the EUT). Adjust the detector bandwidth and span settings to achieve a resolution capable of accurate frequency measurements over the applicable frequency stability limits.

NOTE—An instrument that has an adequate level of accuracy as specified by the procuring or regulatory authority is the recommended measuring instrument.

- e) Measure the frequency.
- f) Unless otherwise specified, vary primary supply voltage from 85% to 115% of the nominal value for other than hand carried battery equipment.
- g) For hand carried, battery powered equipment, reduce the primary ac or dc supply voltage to the battery operating end point, which shall be specified by the manufacturer.
- h) Repeat the frequency measurement.

NOTE—For band-edge compliance, it can be required to make these measurements at the low and High channel of the operating band.

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

Test Results:

Reference: - 48 Vdc at 20°C Freq. = 3,840,000,000 Hz

Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (Hz)	ppm
100 %	+20(Ref)	3 840 000 001.583	1.583	0.000	0.00000
	-30	3 840 000 007.189	7.189	5.606	0.00146
	-20	3 840 000 003.976	3.976	2.393	0.00062
	-10	3 840 000 009.319	9.319	7.735	0.00201
	0	3 840 000 001.902	1.902	0.318	0.00008
	+10	3 840 000 005.305	5.305	3.721	0.00097
	+30	3 840 000 003.273	3.273	1.689	0.00044
	+40	3 840 000 003.097	3.097	1.514	0.00039
	+50	3 840 000 007.415	7.415	5.831	0.00152
115 %	+20	3 840 000 003.253	3.253	1.670	0.00043
85 %	+20	3 840 000 004.548	4.548	2.965	0.00077

## 6. Annex B\_EUT AND TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

No.	Description
1	HCT-RF-2306-FC001-P