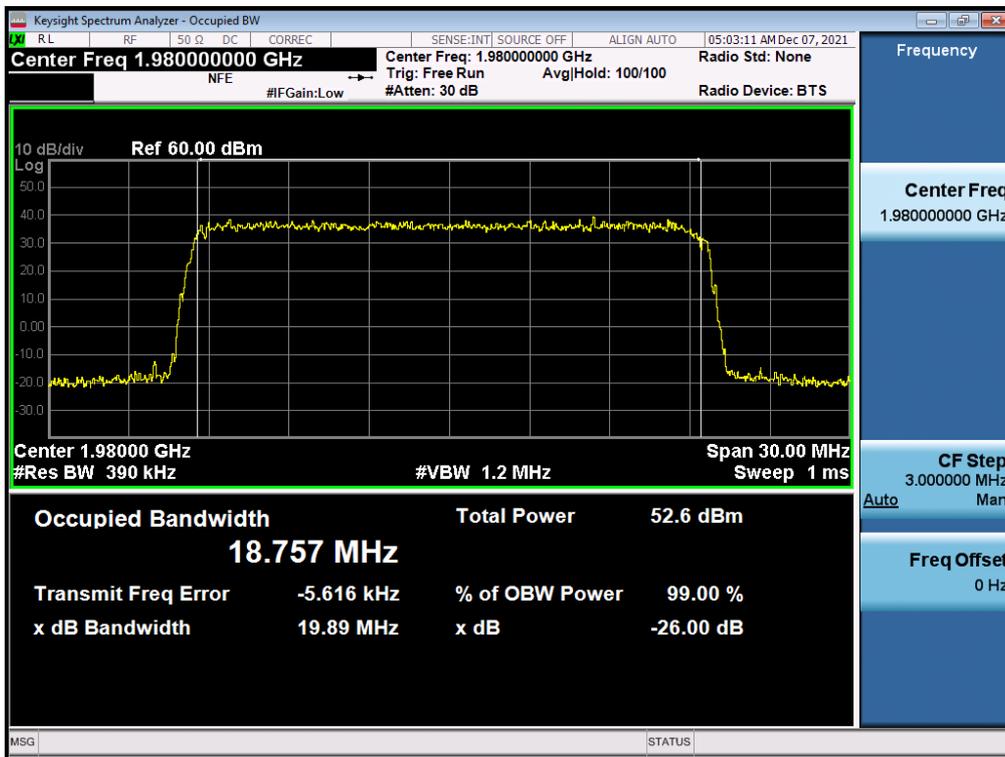
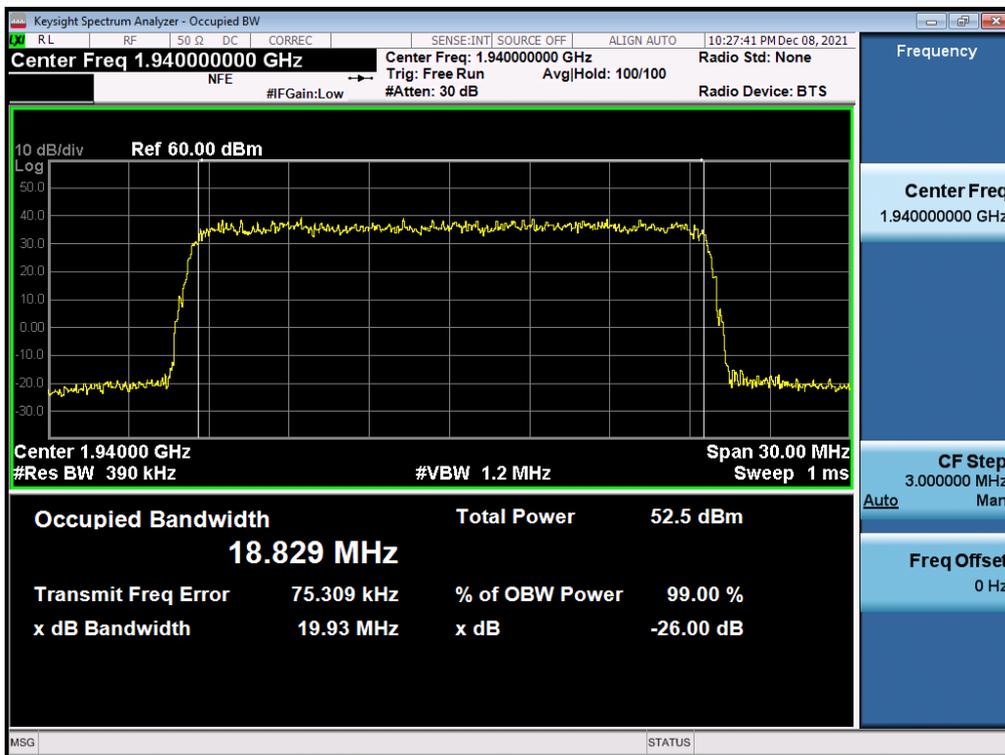


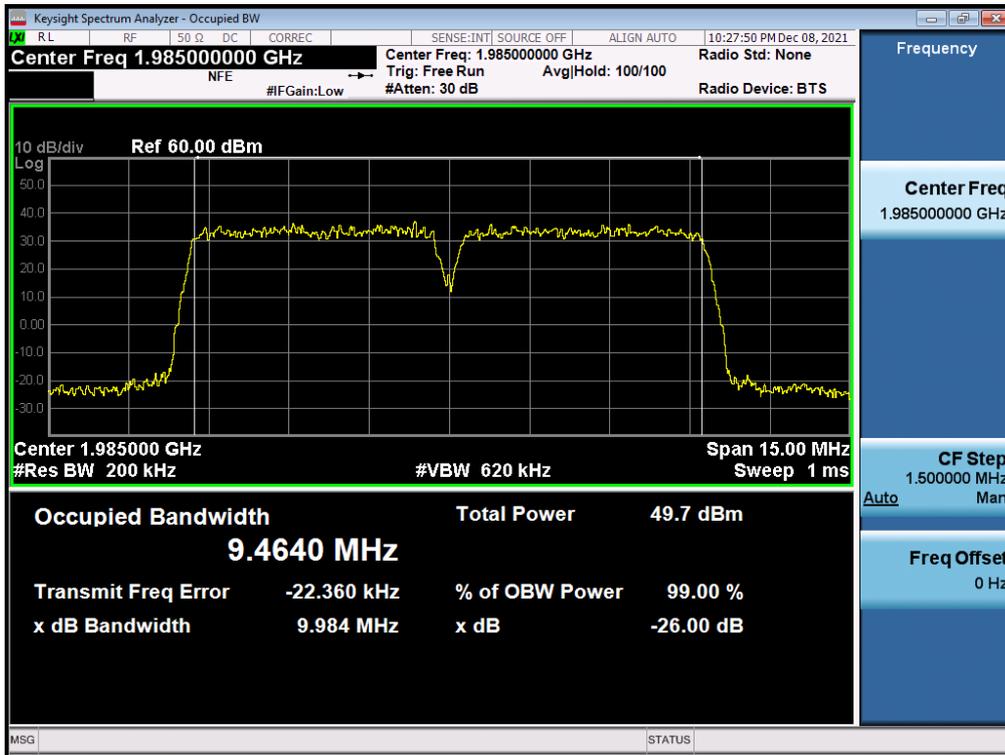
Antenna 1 / (2 Port) B2 DSS 20 MHz 9to1 1 Carrier + LTE B2 5 MHz 1 Carrier + LTE B2 5 MHz 1 Carrier [3 Carrier] (2C+1C) / Non-Contiguous / LTE B2 5 MHz / 256QAM / High



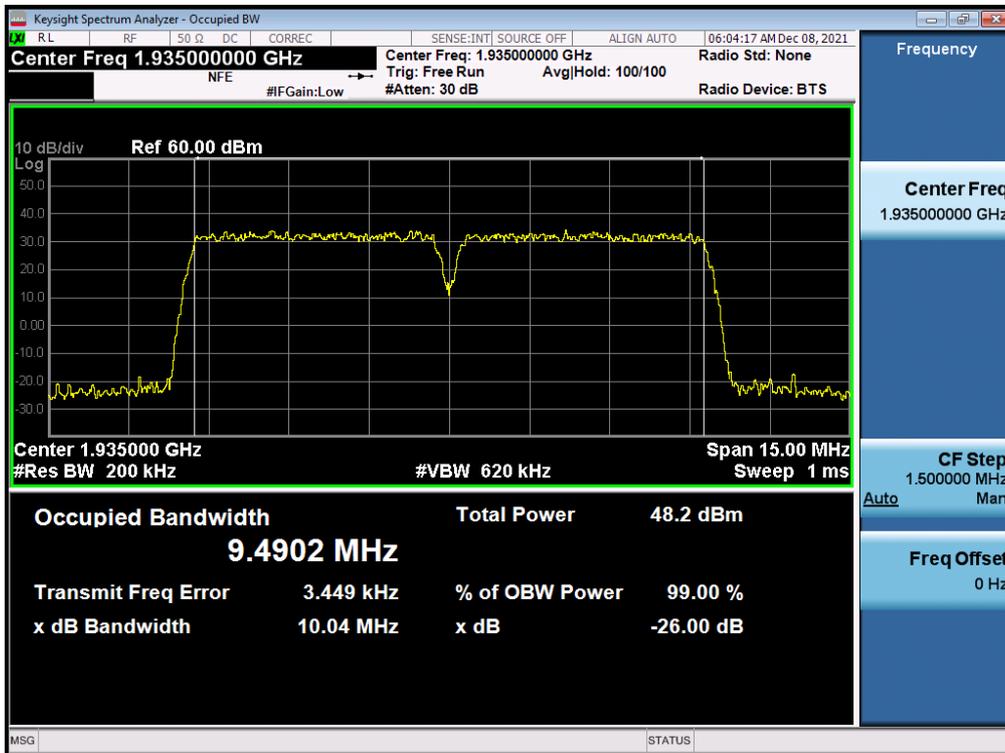
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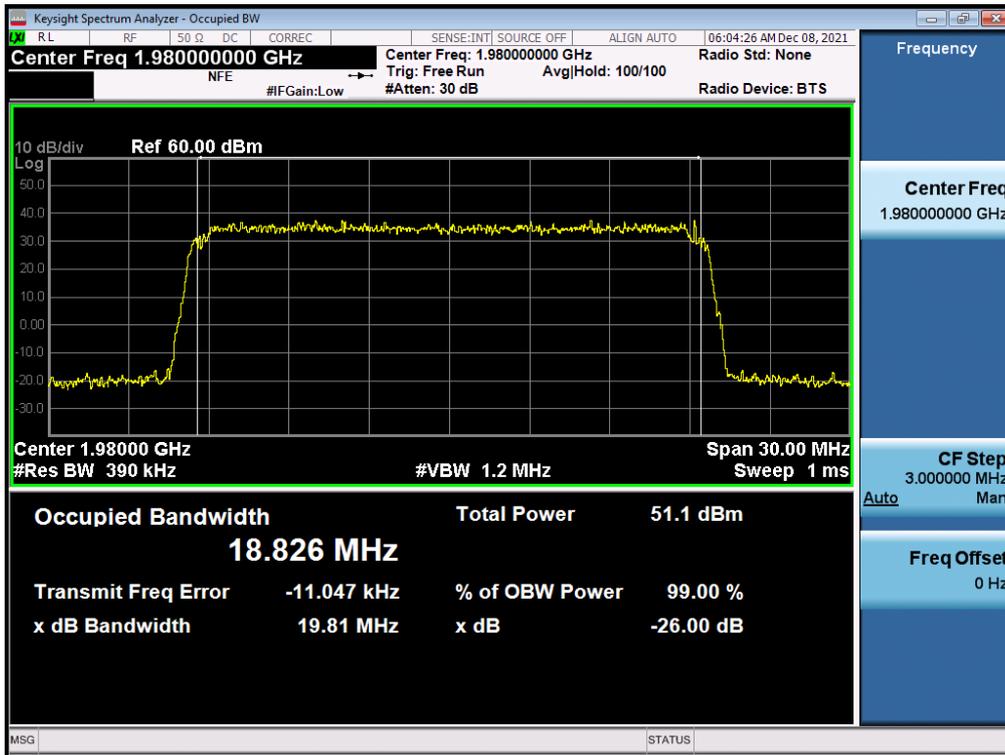
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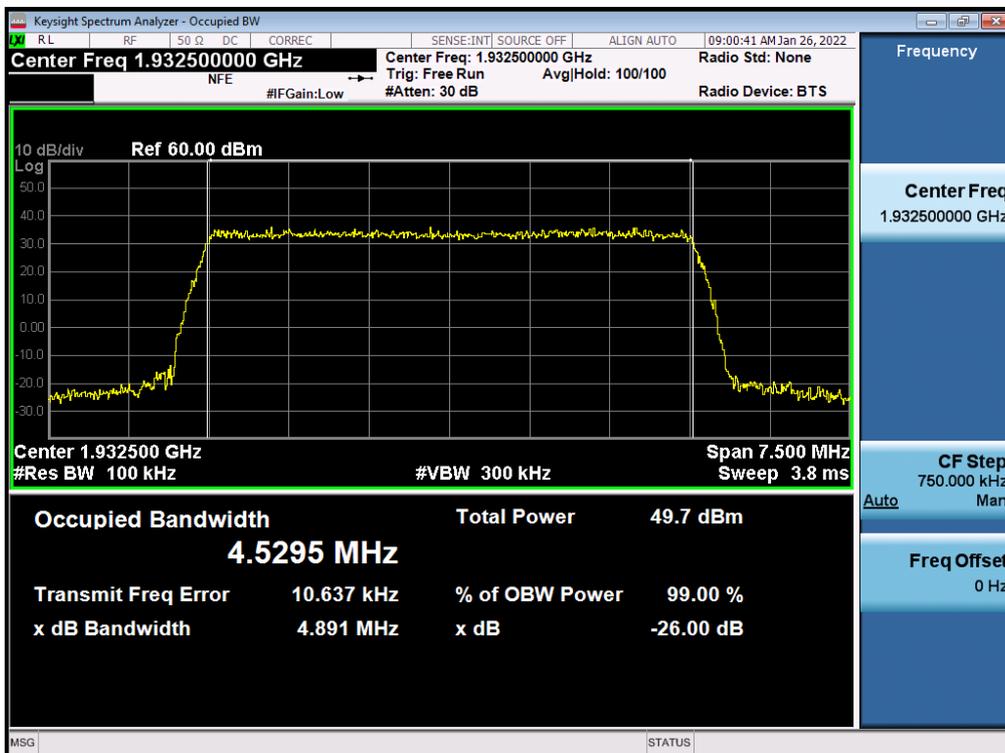
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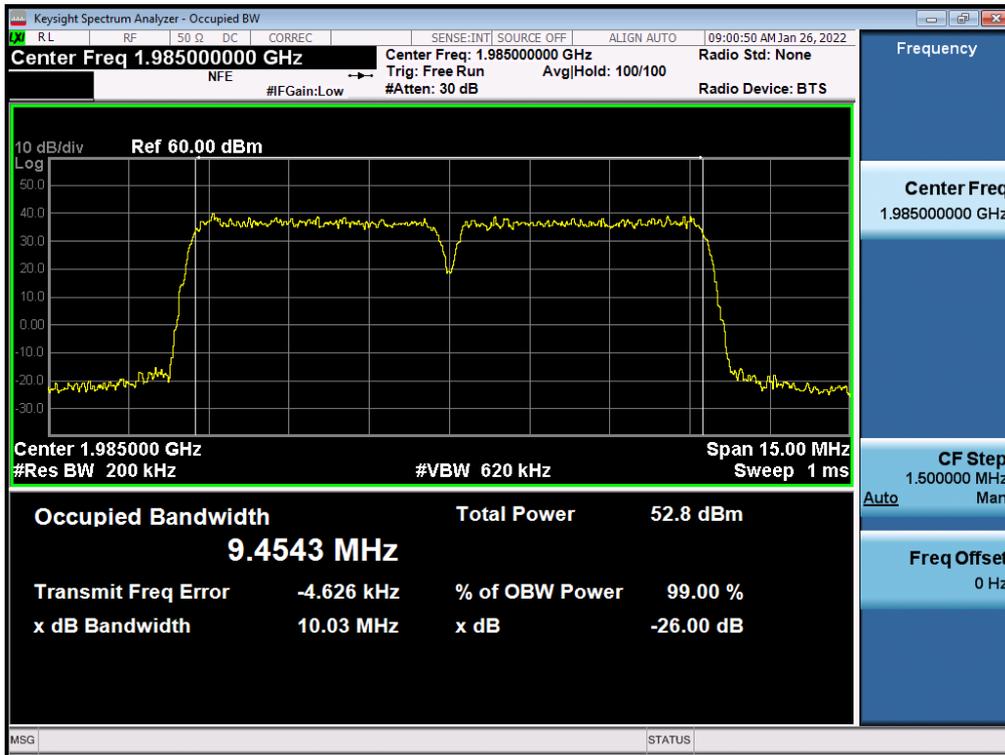
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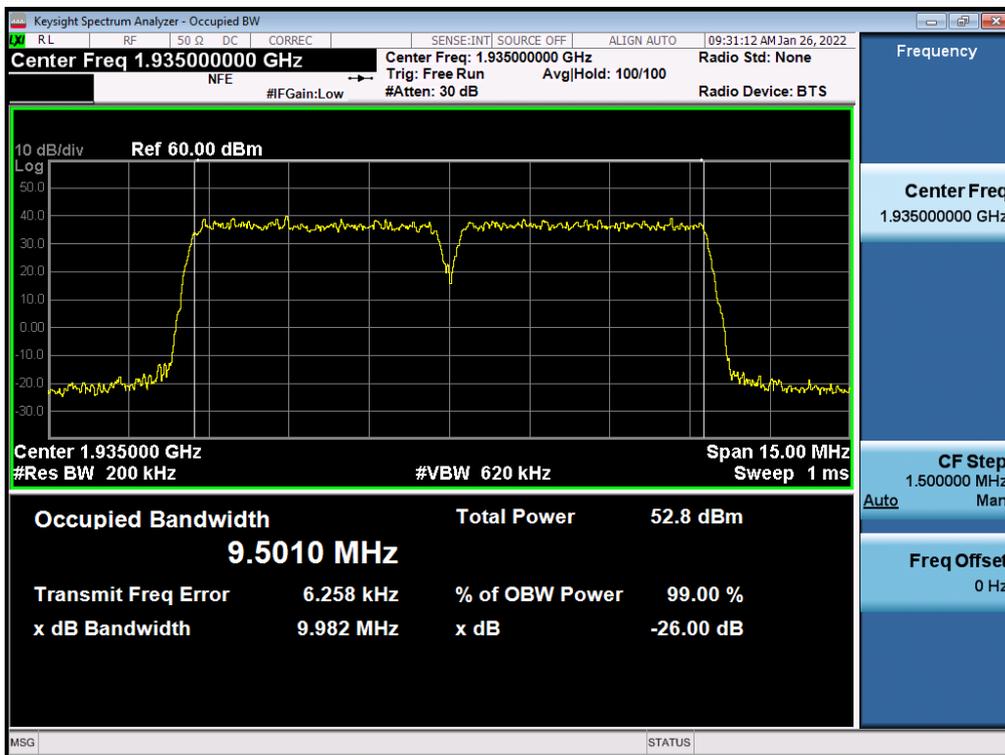
Antenna 0 / (2 Port) LTE B2 5 MHz 1 Carrier + LTE B2 5 MHz 1 Carrier + 5G NR n2 5 MHz 1 Carrier [3 Carrier] (1C+2C) / Non-Contiguous / LTE B2 5 MHz / 256QAM / Low



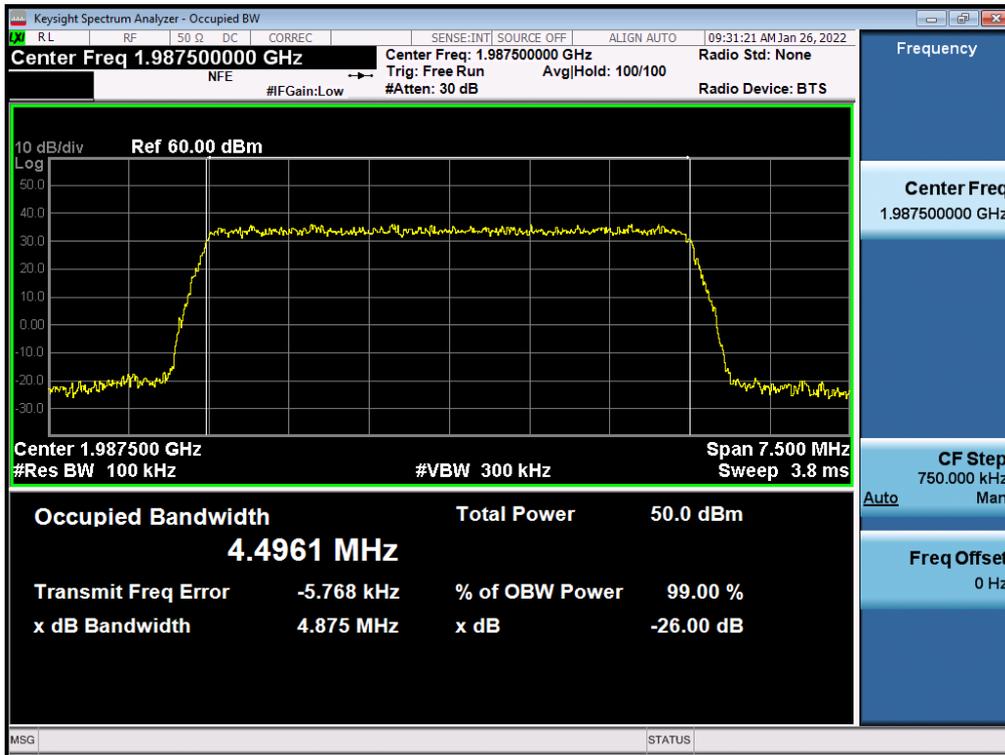
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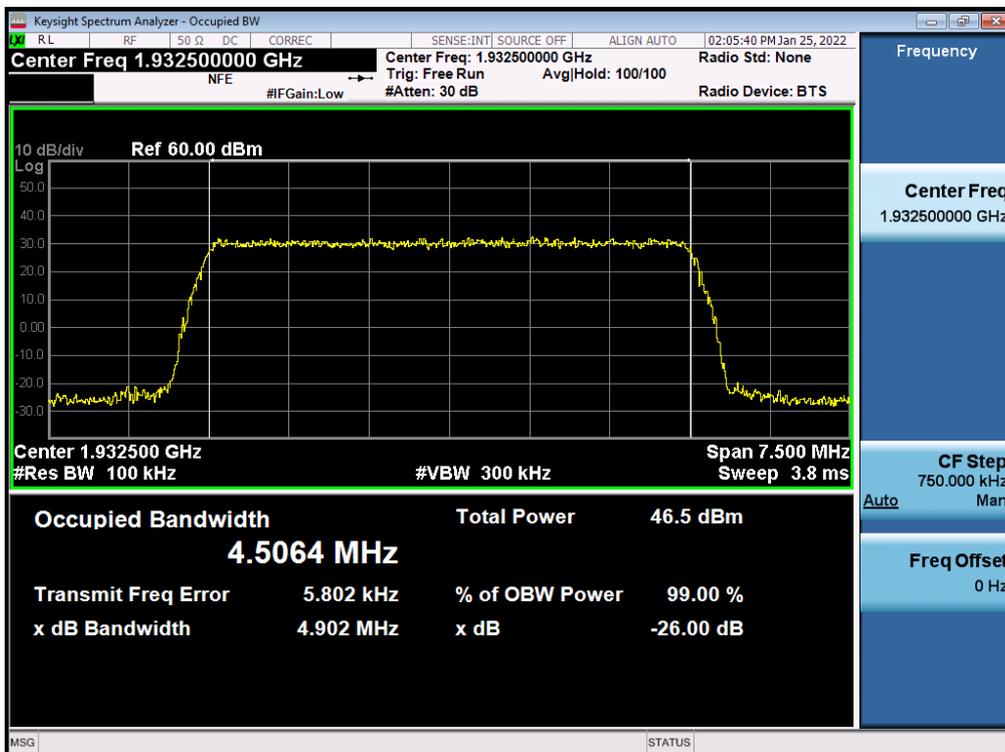
Antenna 0 / (2 Port) LTE B2 5 MHz 1 Carrier + LTE B2 5 MHz 1 Carrier + 5G NR n2 5 MHz 1 Carrier [3 Carrier] (2C+1C) / Non-Contiguous / LTE B2 5 MHz + LTE B2 5 MHz / 256QAM / Low



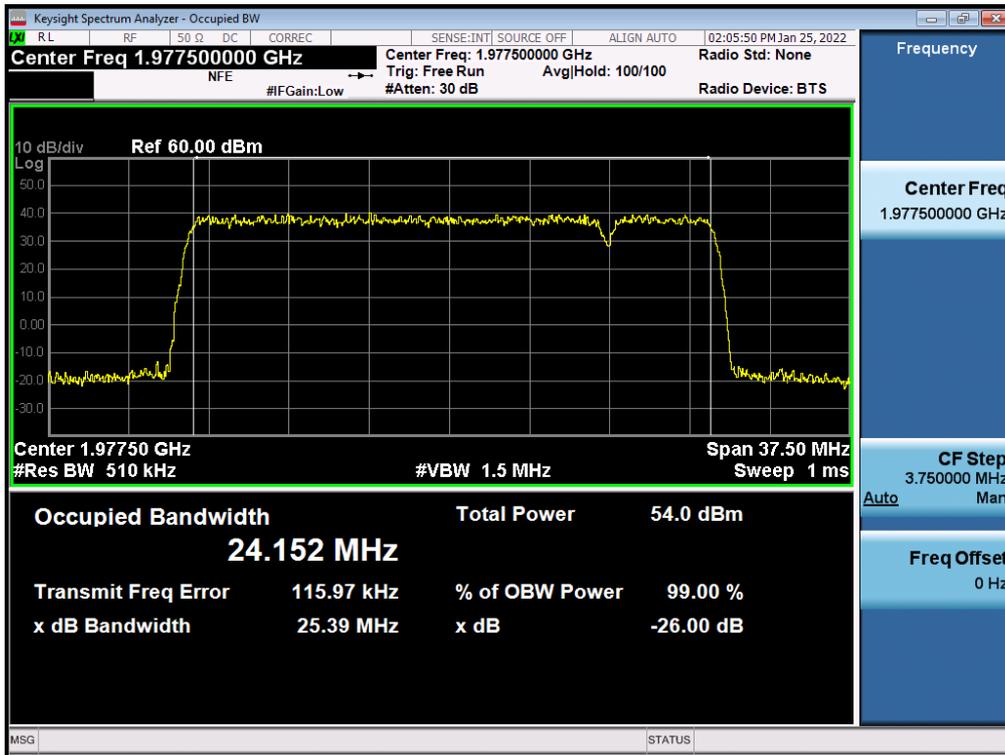
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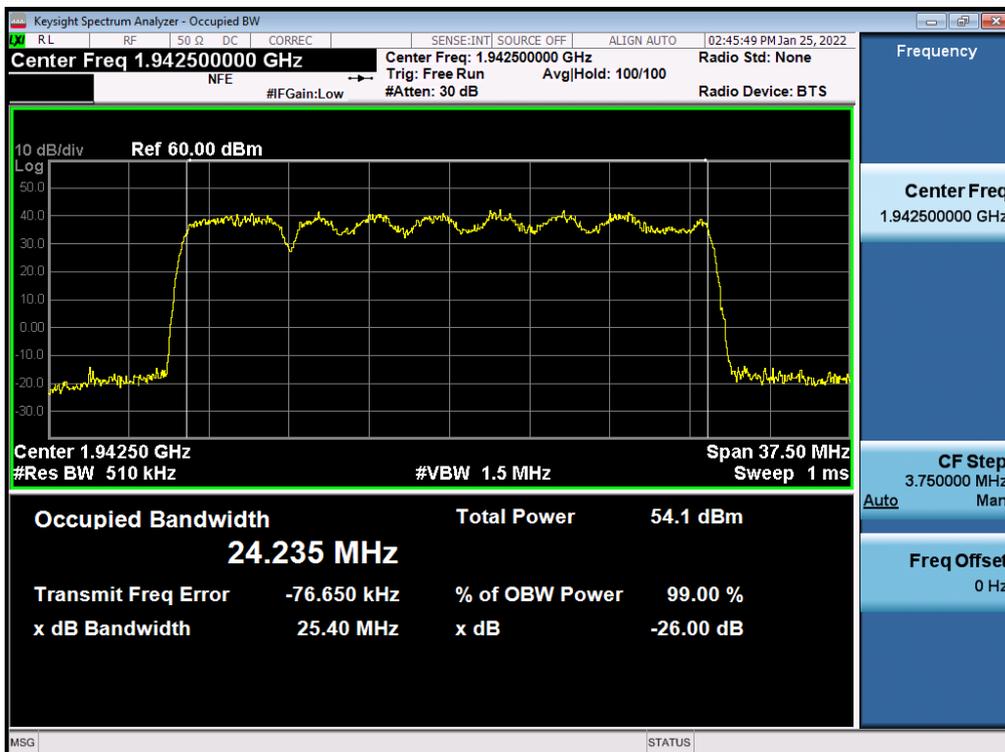
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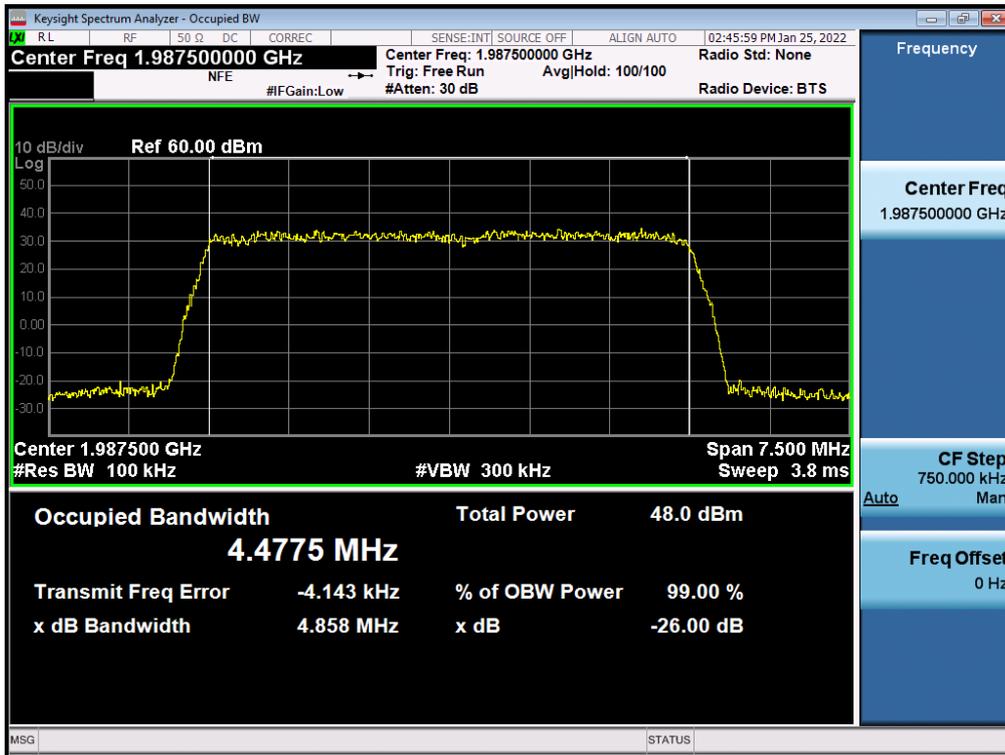
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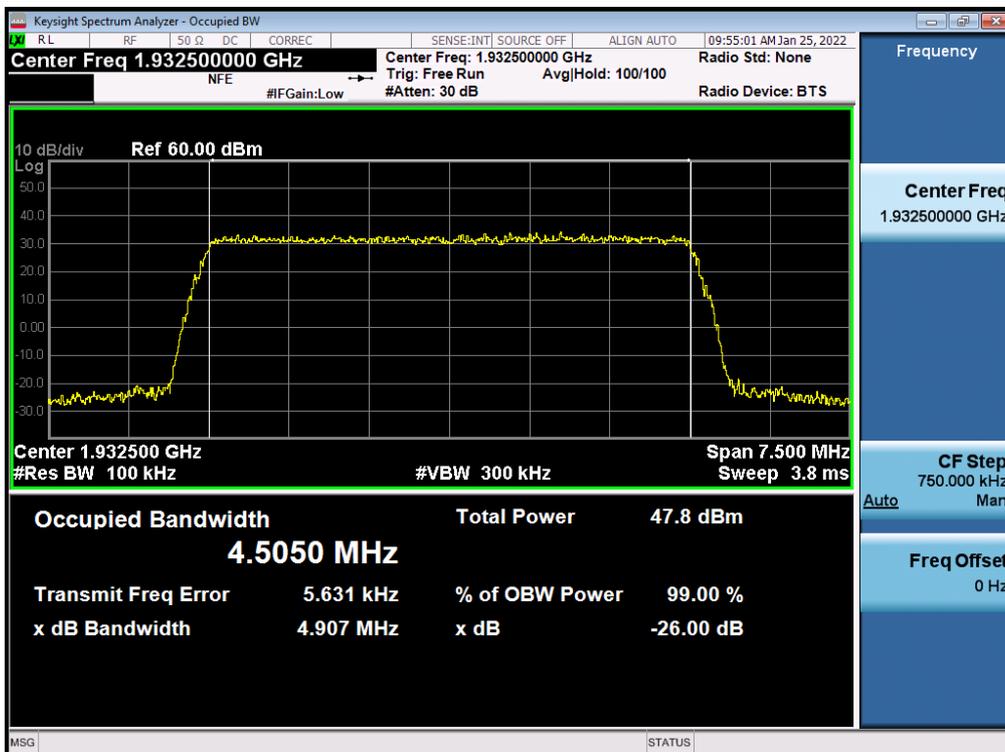
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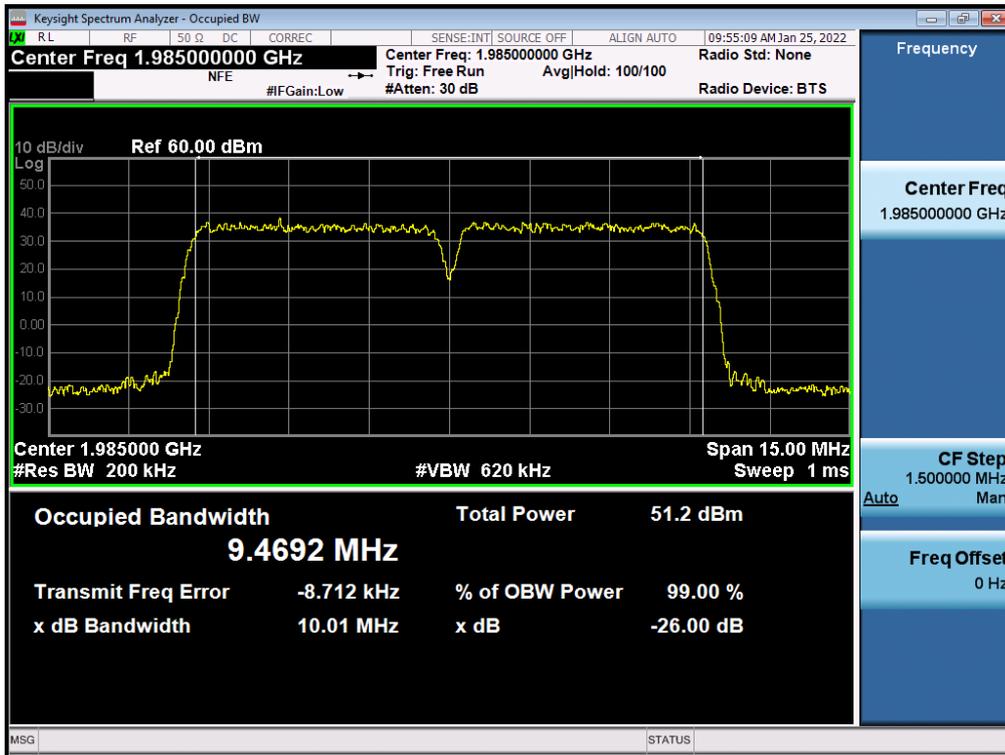
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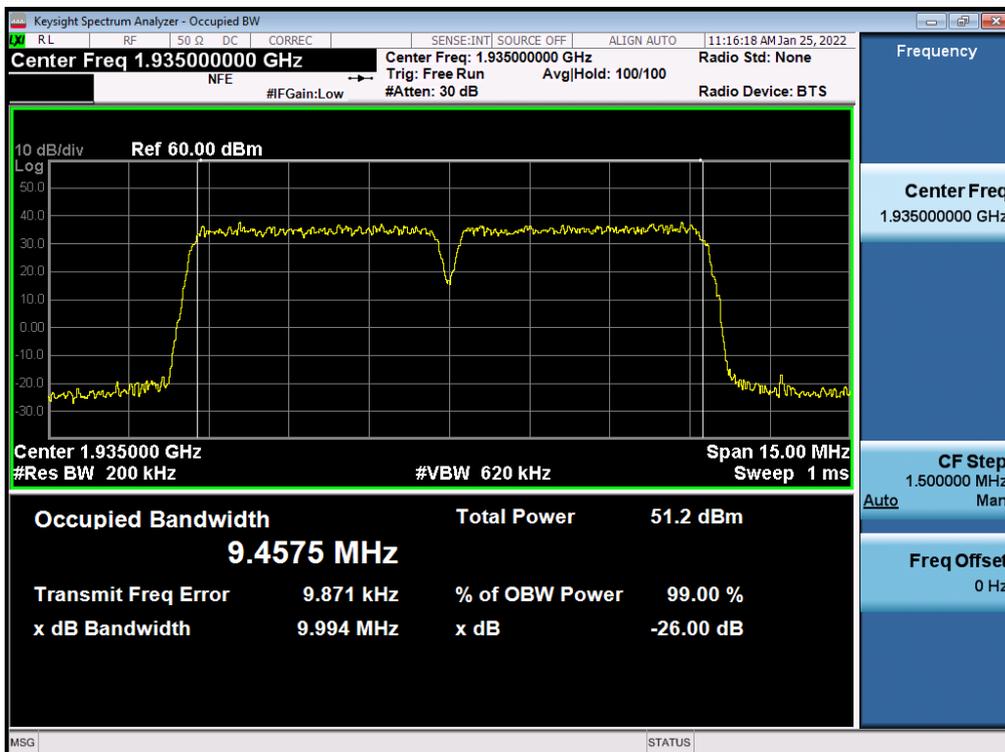
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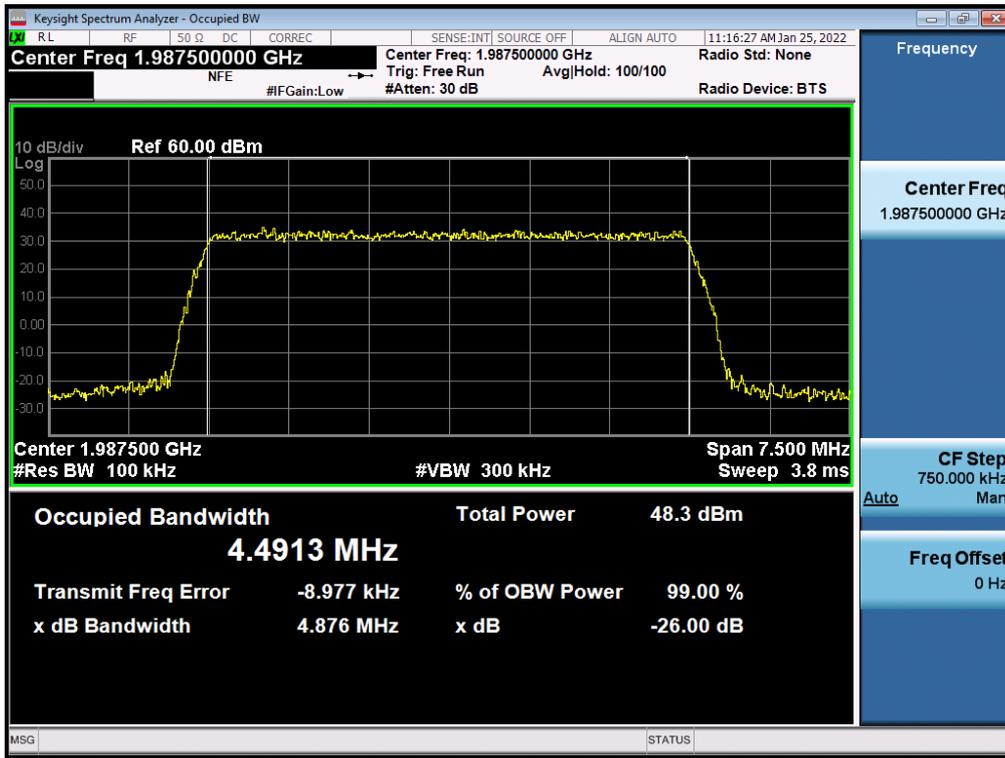
Antenna 0 / (4 Port) LTE B2 5 MHz 1 Carrier + LTE B2 5 MHz 1 Carrier + 5G NR n2 5 MHz 1 Carrier [3 Carrier] (1C+2C) / Non-Contiguous / LTE B2 5 MHz + 5G NR n2 5 MHz / QPSK / High



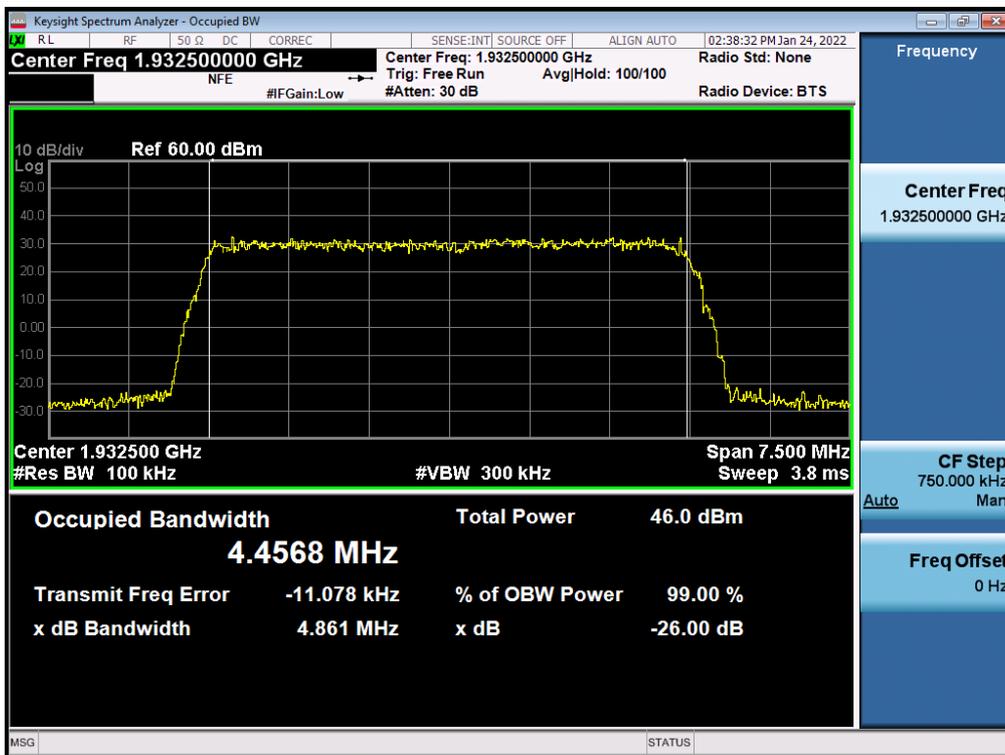
Antenna 0 / (4 Port) LTE B2 5 MHz 1 Carrier + LTE B2 5 MHz 1 Carrier + 5G NR n2 5 MHz 1 Carrier [3 Carrier] (2C+1C) / Non-Contiguous / LTE B2 5 MHz + LTE B2 5 MHz / 64QAM / Low



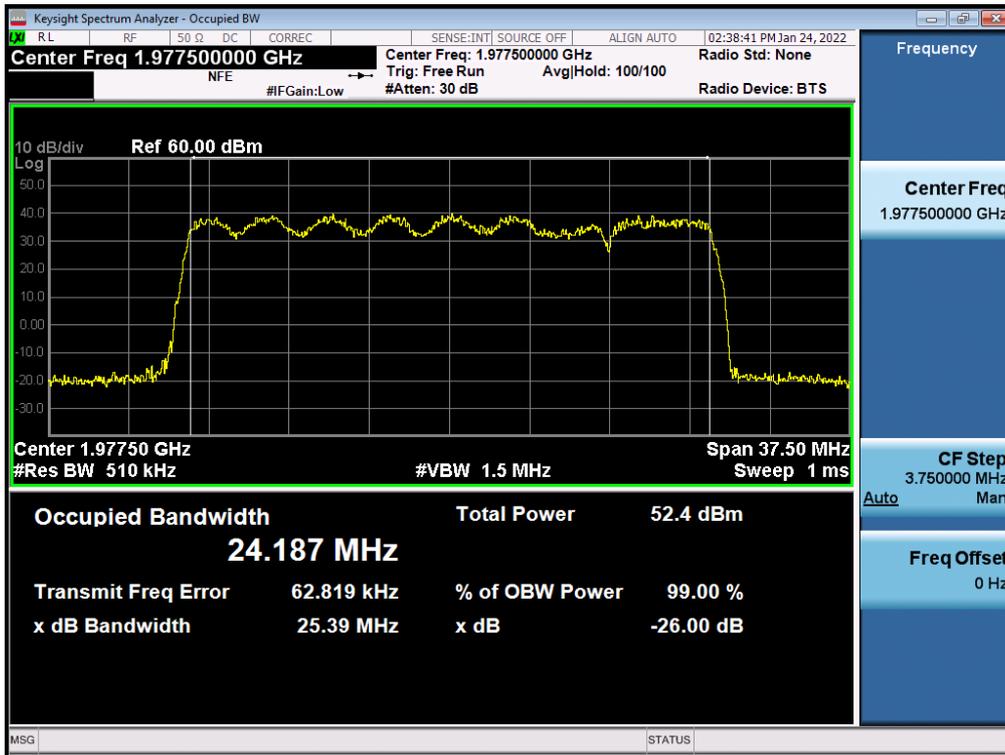
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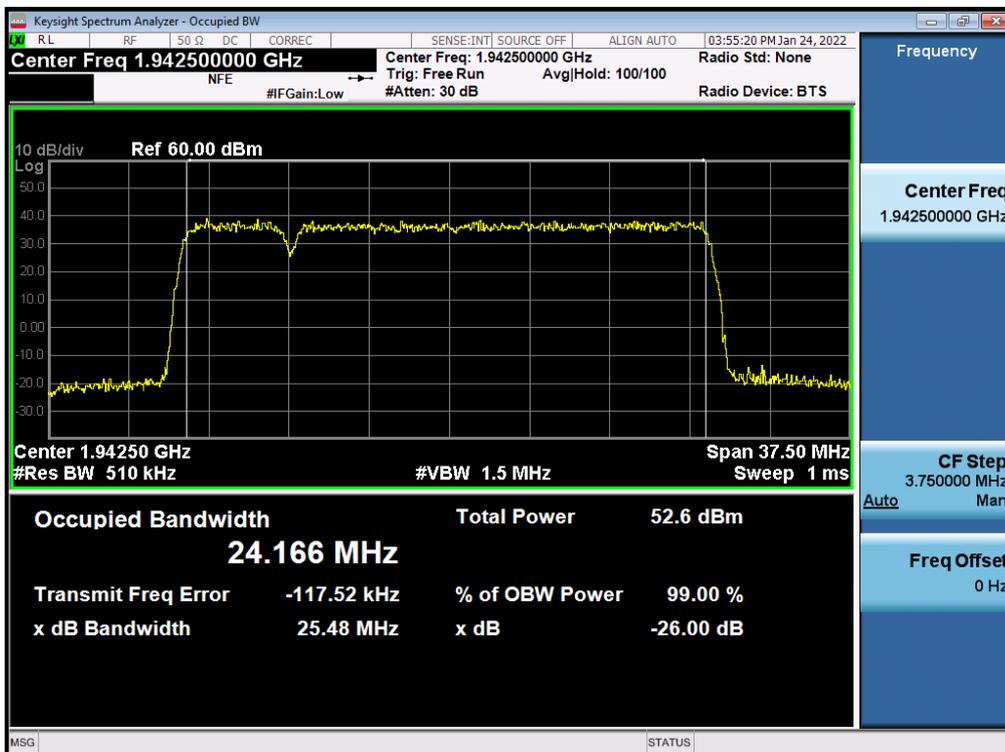
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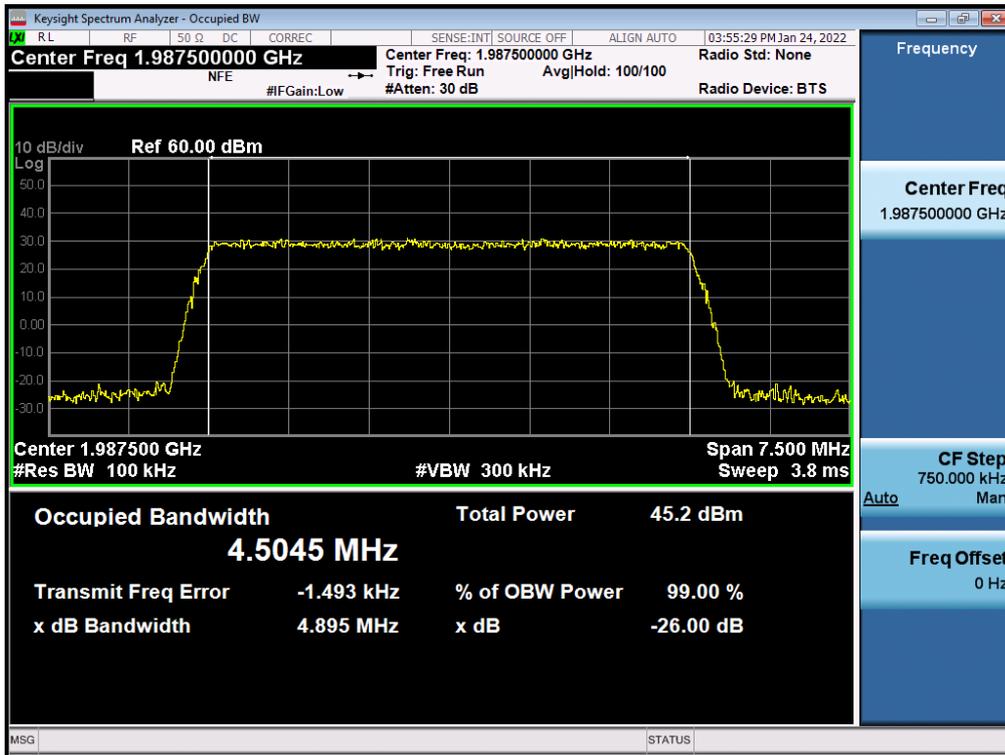
Antenna 0 / (4 Port) LTE B2 5 MHz 1 Carrier + LTE B2 5 MHz 1 Carrier + 5G NR n2 20 MHz 1 Carrier [3 Carrier] (1C+2C) / Non-Contiguous / LTE B2 5 MHz + 5G NR n2 20 MHz / 16QAM / High



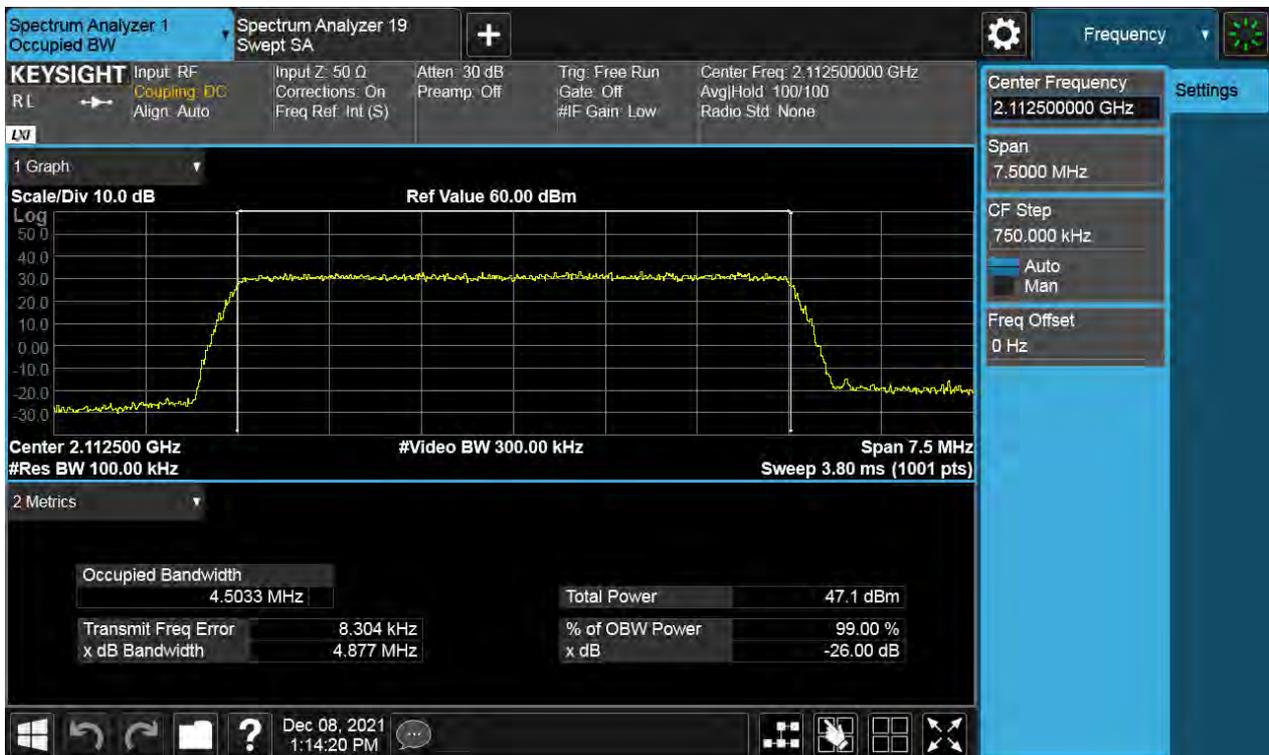
Antenna 0 / (4 Port) LTE B2 5 MHz 1 Carrier + LTE B2 5 MHz 1 Carrier + 5G NR n2 20 MHz 1 Carrier [3 Carrier] (2C+1C) / Non-Contiguous / LTE B2 5 MHz + LTE B2 5 MHz / 64QAM / Low

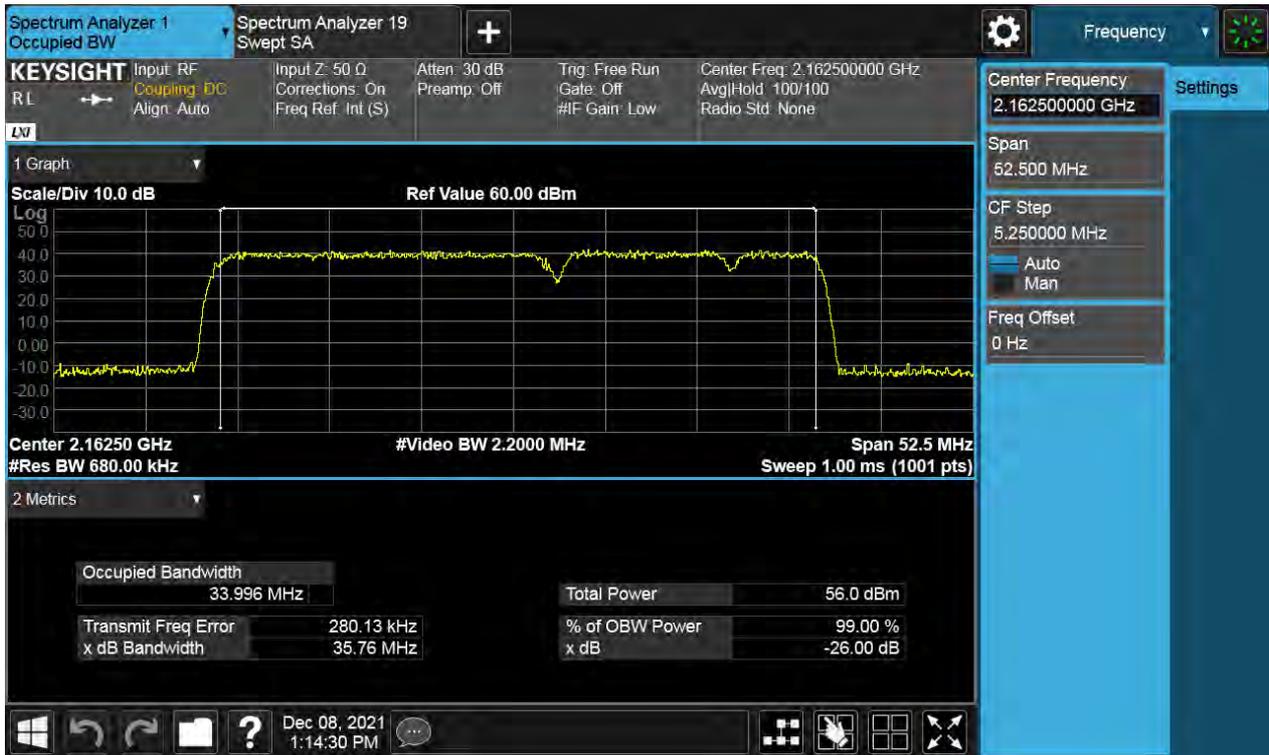
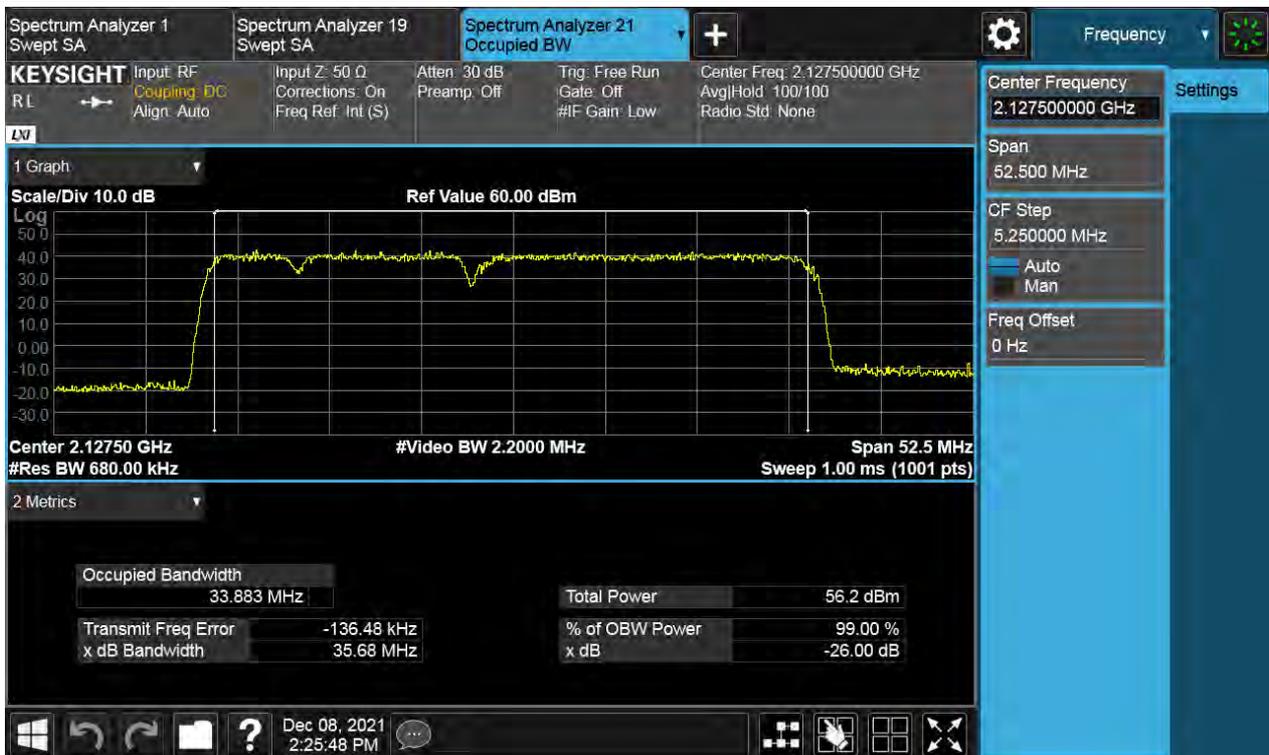


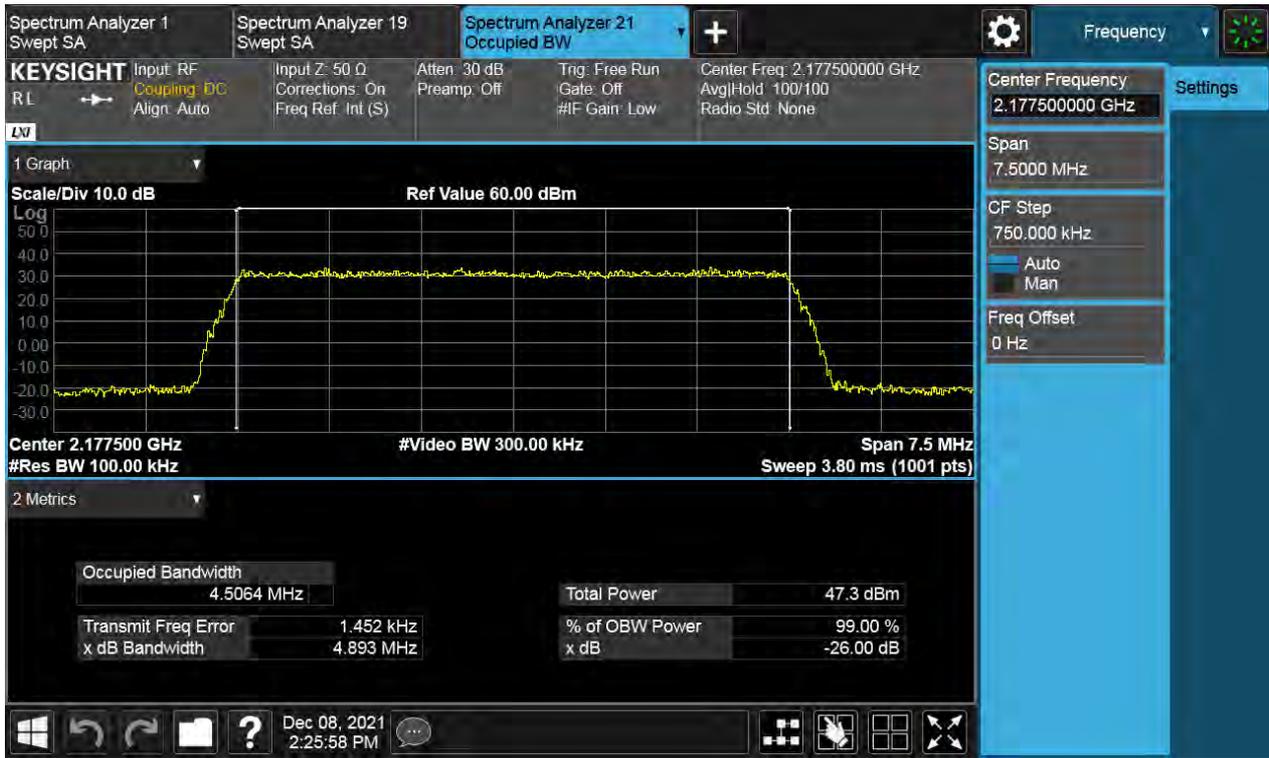
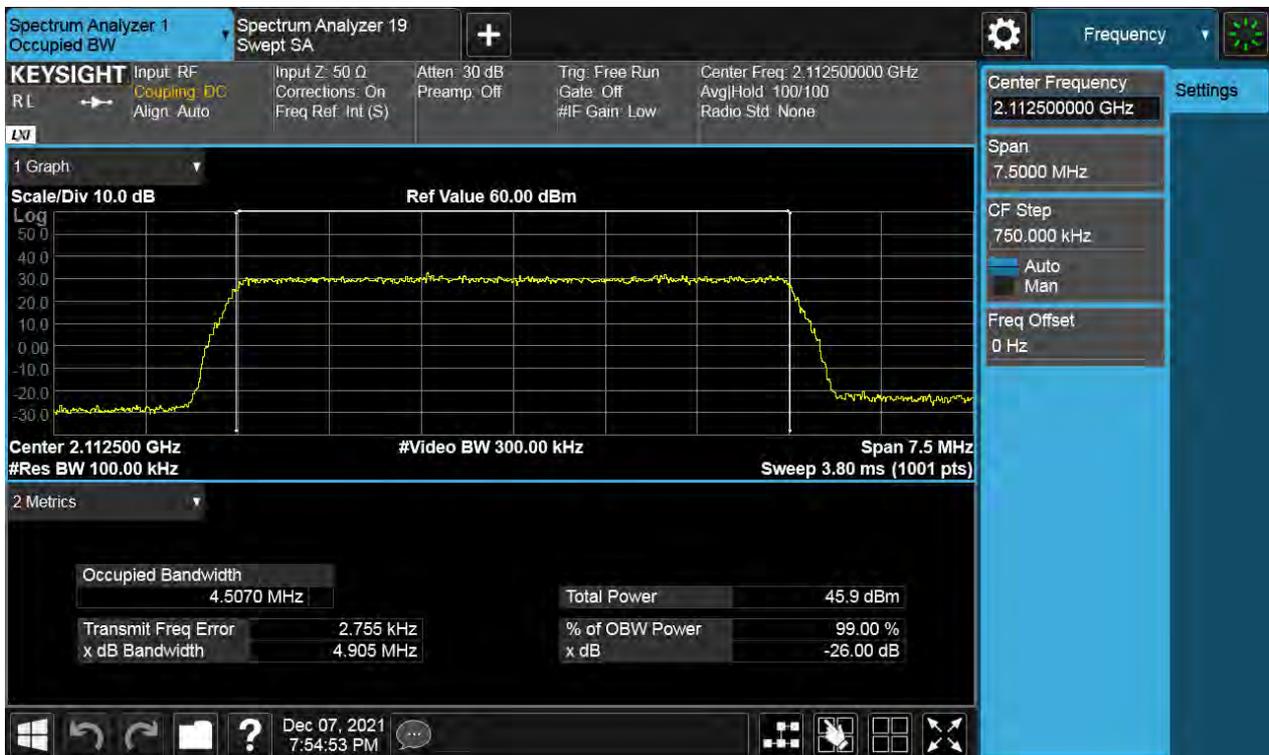
Antenna 0 / (4 Port) LTE B2 5 MHz 1 Carrier + LTE B2 5 MHz 1 Carrier + 5G NR n2 20 MHz 1 Carrier [3 Carrier] (2C+1C) / Non-Contiguous / 5G NR n2 20 MHz / 64QAM / High



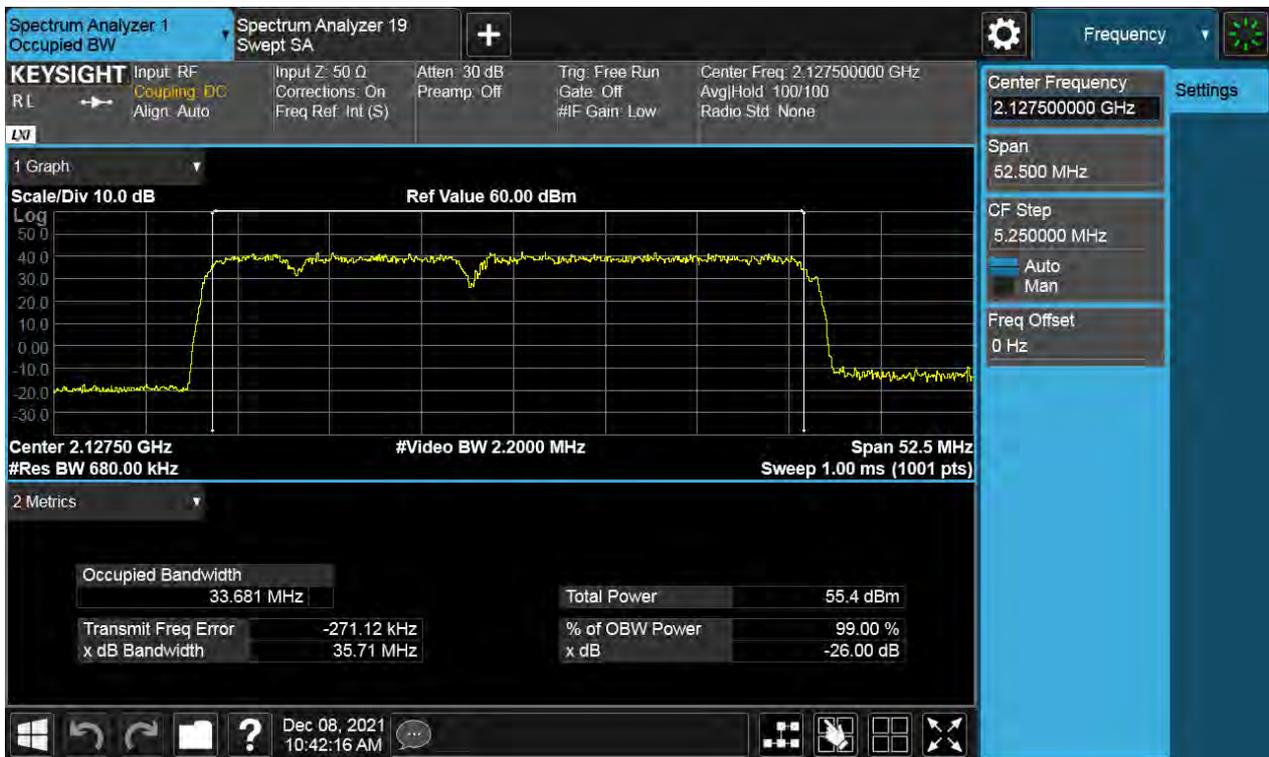
Antenna 1 / (2 Port) B66 DSS 20 MHz 9to1 1 Carrier + LTE B66 10 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier [4 Carrier] (1C+3C) / Non-Contiguous / B66 DSS 20 MHz 9to1 / 64QAM / Low



**Antenna 1 / (2 Port) B66 DSS 20 MHz 9to1 1 Carrier + LTE B66 10 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier [4 Carrier] (1C+3C) / Non-Contiguous / LTE B66 10 MHz + LTE B66 5 MHz + LTE B66 5 MHz / 64QAM / High**

**Antenna 1 / (2 Port) B66 DSS 20 MHz 9to1 1 Carrier + LTE B66 10 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier [4 Carrier] (3C+1C) / Non-Contiguous / B66 DSS 20 MHz 9to1 + LTE B66 10 MHz + LTE B66 5 MHz / 16QAM / Low**


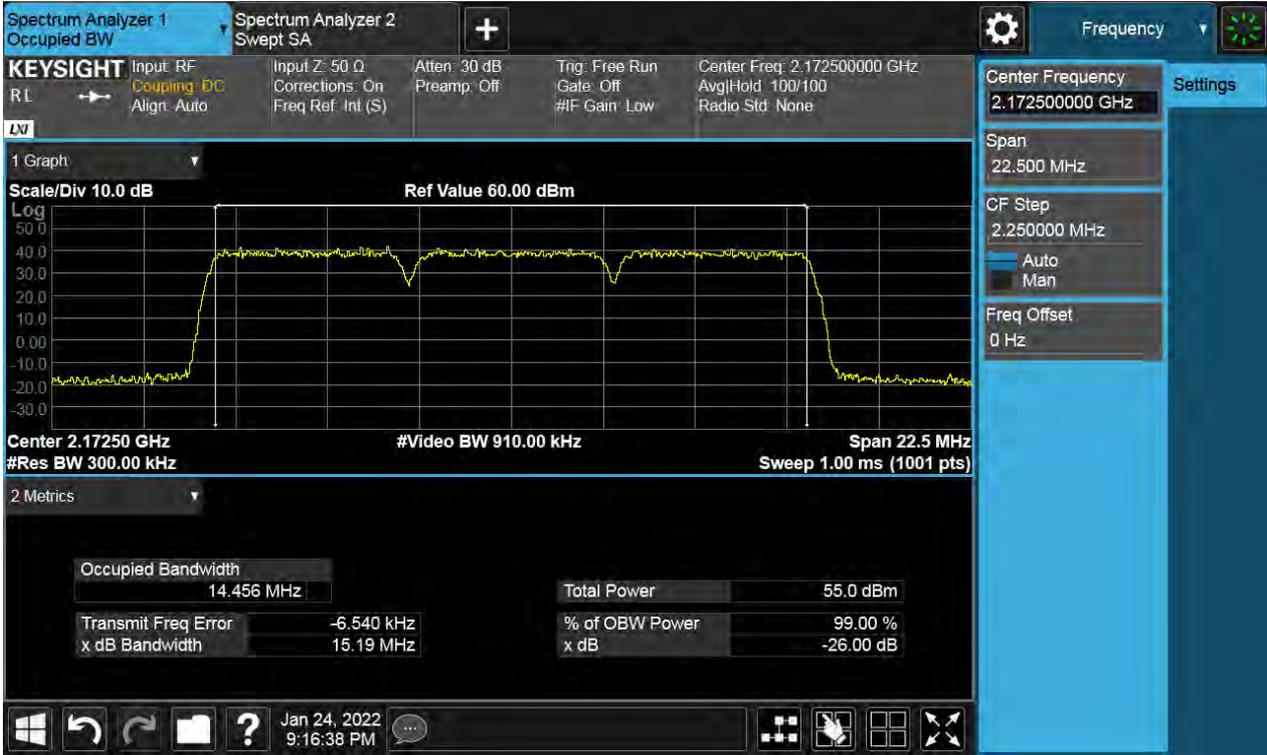
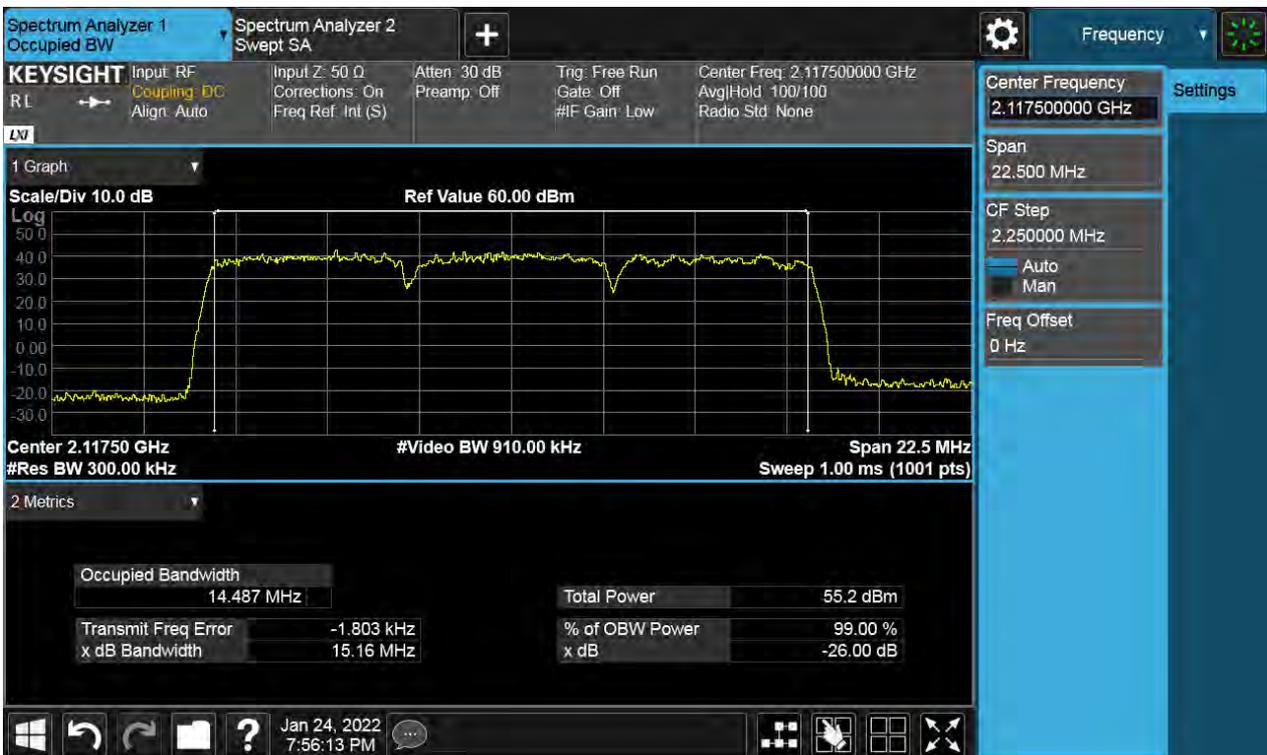
**Antenna 1 / (2 Port) B66 DSS 20 MHz 9to1 1 Carrier + LTE B66 10 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier [4 Carrier] (3C+1C) / Non-Contiguous / LTE B66 5 MHz / 16QAM / High**

**Antenna 3 / (4 Port) B66 DSS 20 MHz 9to1 1 Carrier + LTE B66 10 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier [4 Carrier] (1C+3C) / Non-Contiguous / B66 DSS 20 MHz 9to1 / QPSK / Low**


**Antenna 3 / (4 Port) B66 DSS 20 MHz 9to1 1 Carrier + LTE B66 10 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier [4 Carrier] (1C+3C) / Non-Contiguous / LTE B66 10 MHz + LTE B66 5 MHz + LTE B66 5 MHz / QPSK / High**

**Antenna 1 / (4 Port) B66 DSS 20 MHz 9to1 1 Carrier + LTE B66 10 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier [4 Carrier] (3C+1C) / Non-Contiguous / B66 DSS 20 MHz 9to1 + LTE B66 10 MHz + LTE B66 5 MHz / 16QAM / Low**


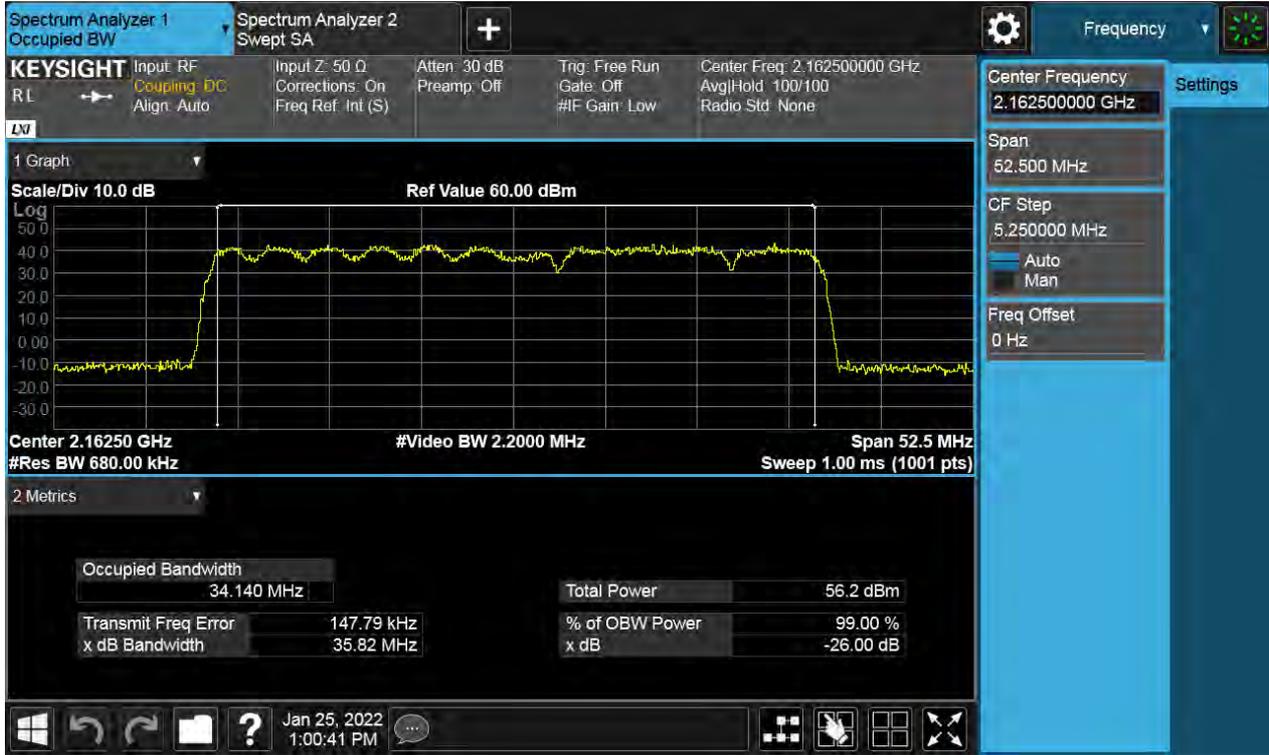
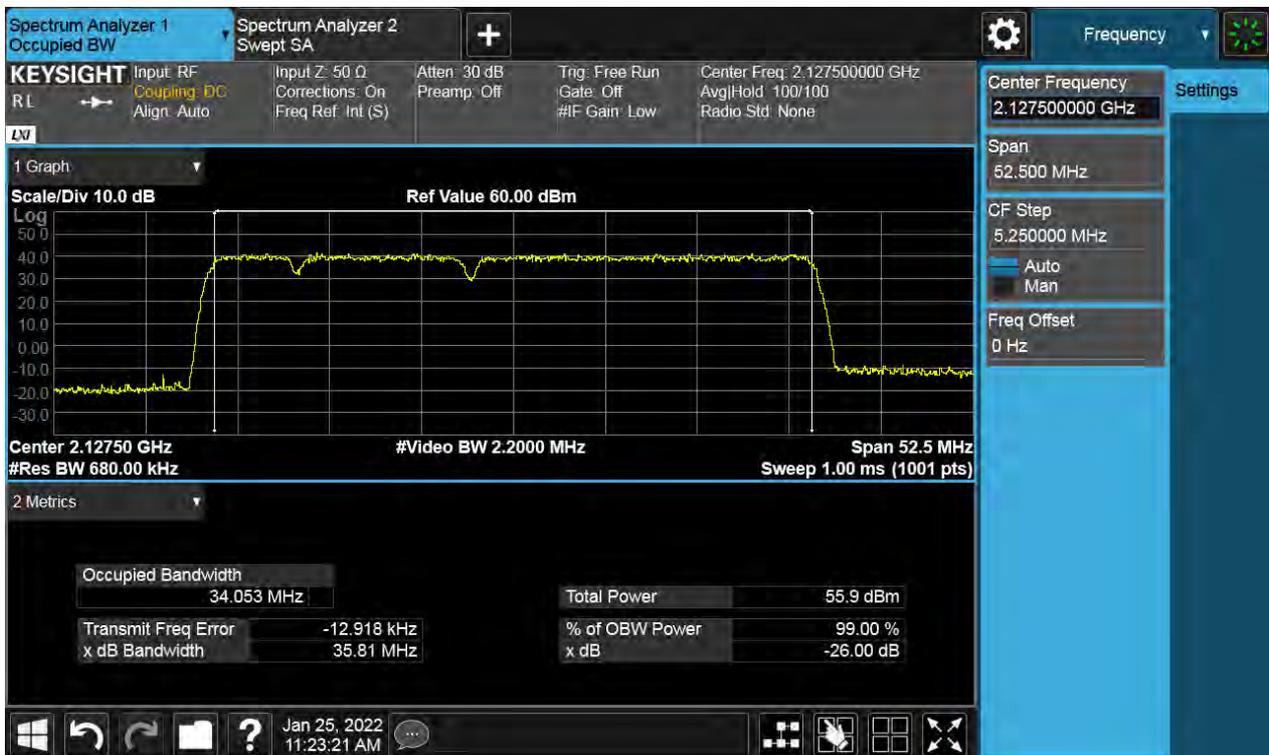
**Antenna 1 / (4 Port) B66 DSS 20 MHz 9to1 1 Carrier + LTE B66 10 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier [4 Carrier] (3C+1C) / Non-Contiguous / LTE B66 5 MHz / 16QAM / High**

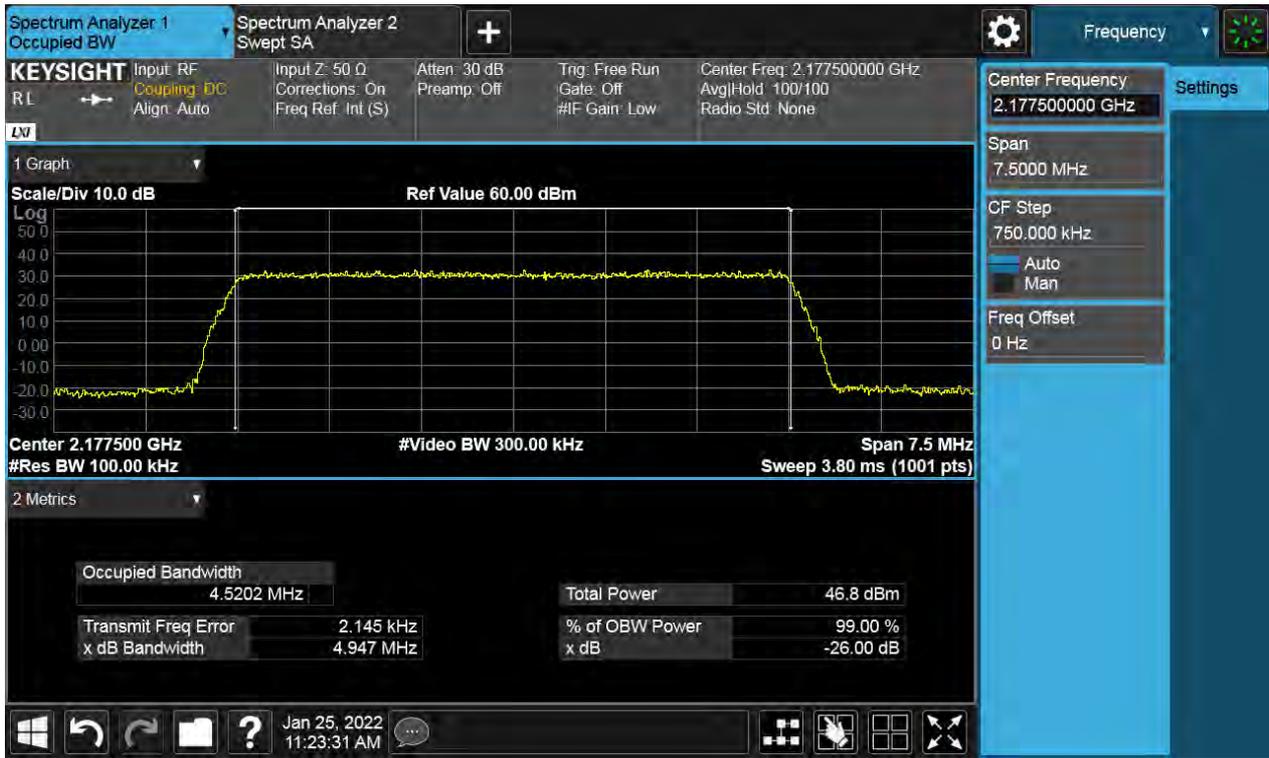
**Antenna 1 / (2 Port) LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [4 Carrier] (1C+3C) / Non-Contiguous / LTE B66 5 MHz / 256QAM / Low**


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

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


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

**Antenna 1 / (2 Port) LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 10 MHz 1 Carrier + 5G NR n66 20 MHz 1 Carrier [4 Carrier] (1C+3C) / Non-Contiguous / LTE B66 5 MHz / 16QAM / Low**


**Antenna 1 / (2 Port) LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 10 MHz 1 Carrier + 5G NR n66 20 MHz 1 Carrier [4 Carrier] (1C+3C) / Non-Contiguous / LTE B66 5 MHz + LTE B66 10 MHz + 5G NR n66 20 MHz / 16QAM / High**

**Antenna 1 / (2 Port) LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 10 MHz 1 Carrier + 5G NR n66 20 MHz 1 Carrier [4 Carrier] (3C+1C) / Non-Contiguous / LTE B66 5 MHz + LTE B66 5 MHz + LTE B66 10 MHz / QPSK / Low**


**Antenna 1 / (2 Port) LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 10 MHz 1 Carrier + 5G NR n66 20 MHz 1 Carrier [4 Carrier] (3C+1C) / Non-Contiguous / 5G NR n66 20 MHz / QPSK / High**

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

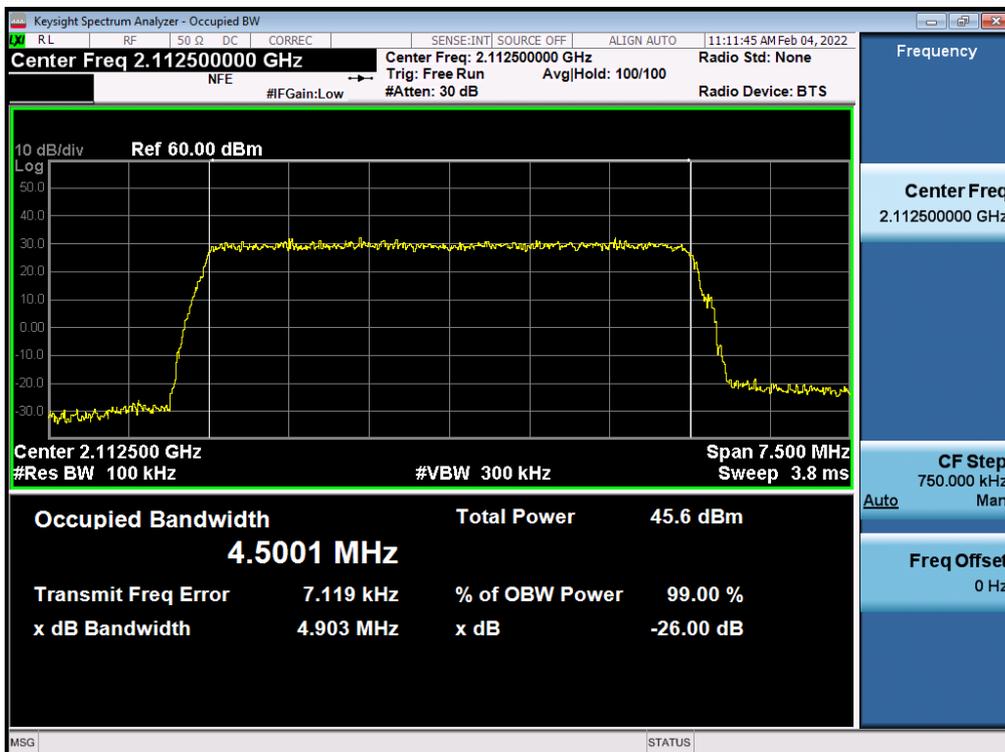

**Antenna 1 / (4 Port) LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [4 Carrier] (1C+3C) / Non-Contiguous / LTE B66 5 MHz + LTE B66 5 MHz + 5G NR n66 5 MHz / QPSK / High**

**Antenna 0 / (4 Port) LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [4 Carrier] (3C+1C) / Non-Contiguous / LTE B66 5 MHz + LTE B66 5 MHz + LTE B66 5 MHz / QPSK / Low**

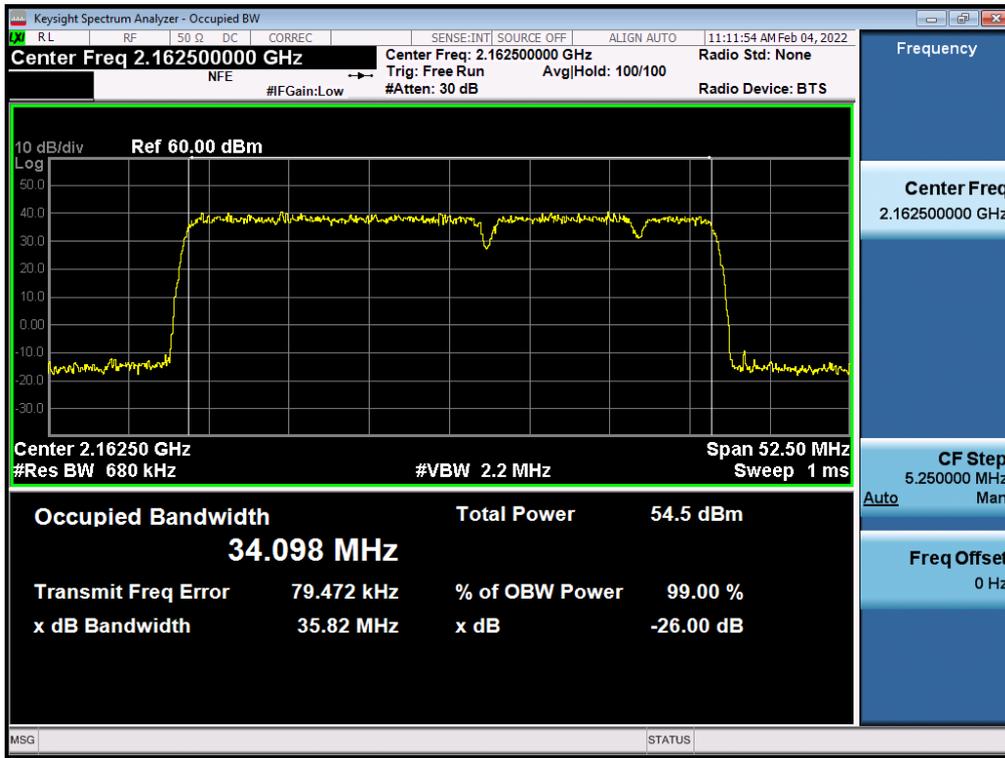

Antenna 0 / (4 Port) LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier [4 Carrier] (3C+1C) / Non-Contiguous / 5G NR n66 5 MHz / QPSK / High



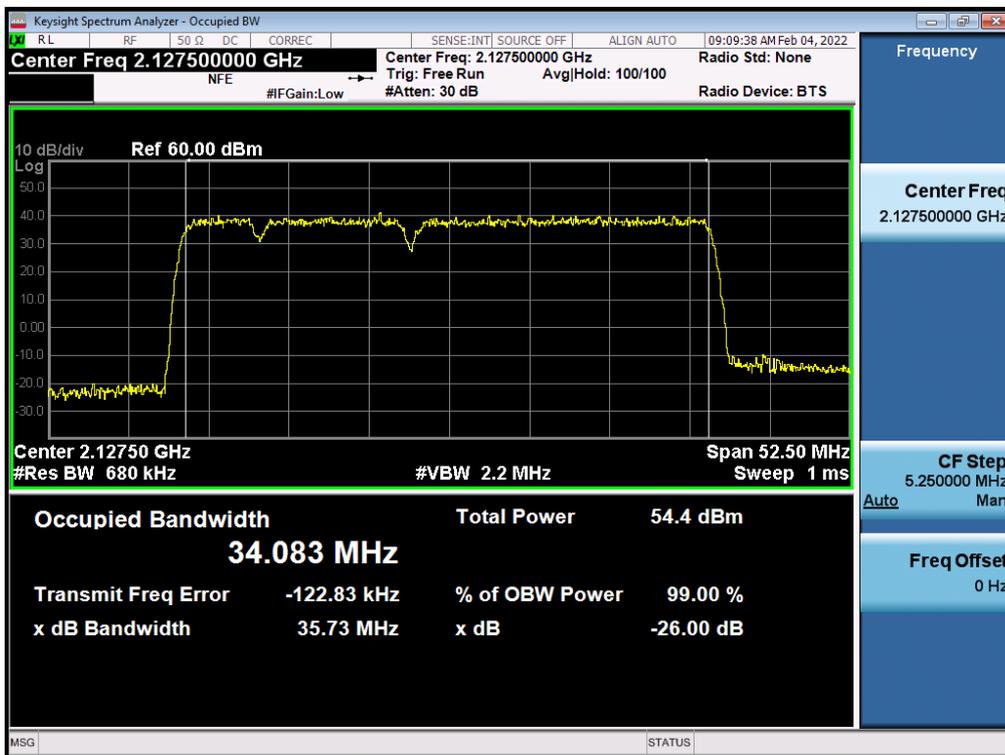
Antenna 1 / (4 Port) LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 10 MHz 1 Carrier + 5G NR n66 20 MHz 1 Carrier [4 Carrier] (1C+3C) / Non-Contiguous / LTE B66 5 MHz / 256QAM / Low



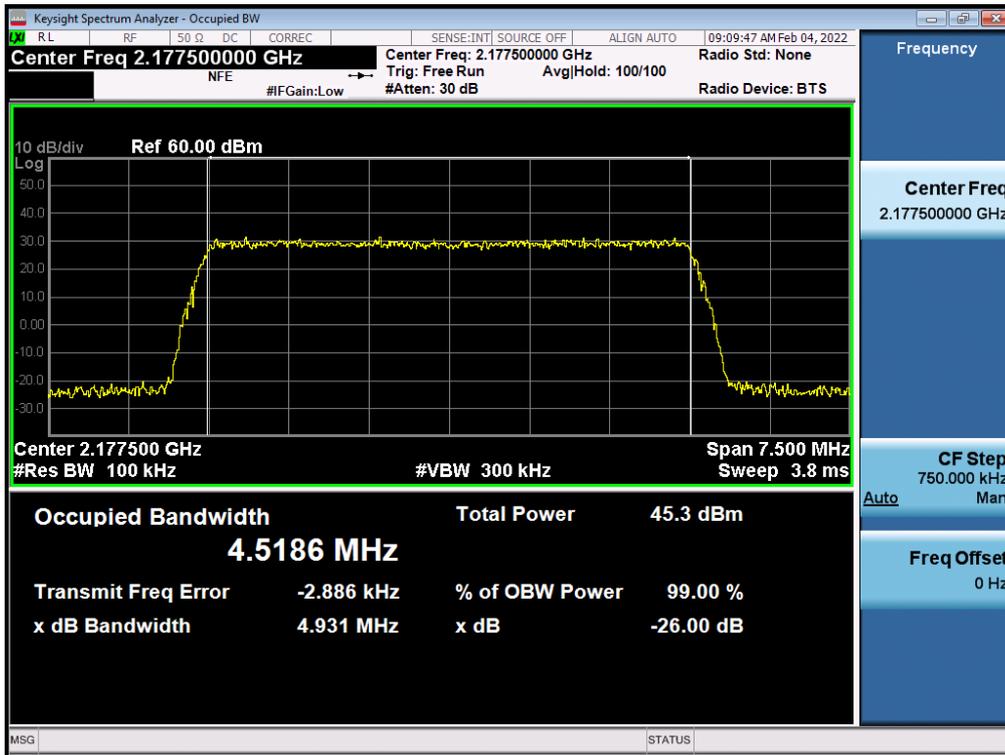
Antenna 1 / (4 Port) LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 10 MHz 1 Carrier + 5G NR n66 20 MHz 1 Carrier [4 Carrier] (1C+3C) / Non-Contiguous / LTE B66 5 MHz + LTE B66 10 MHz + 5G NR n66 20 MHz / 256QAM / High



Antenna 1 / (4 Port) LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 10 MHz 1 Carrier + 5G NR n66 20 MHz 1 Carrier [4 Carrier] (3C+1C) / Non-Contiguous / LTE B66 5 MHz + LTE B66 5 MHz + LTE B66 10 MHz / 64QAM / Low



Antenna 1 / (4 Port) LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 10 MHz 1 Carrier + 5G NR n66 20 MHz 1 Carrier [4 Carrier] (3C+1C) / Non-Contiguous / 5G NR n66 20 MHz / 64QAM / High



## 5.4. OUT-OF-BAND UNWANTED EMISSIONS

### Test Requirements:

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

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

#### § 24.238 Emission limitations for Broadband PCS equipment.

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

- (a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.
- (b) Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.
- (c) Alternative out of band emission limit. Licensees in this service may establish an alternative out of band emission limit to be used at specified band edge(s) in specified geographical areas, in lieu of that set forth in this section, pursuant to a private contractual arrangement of all affected licensees and applicants. In this event, each party to such contract shall maintain a copy of the contract in their station files and disclose it to prospective assignees or transferees and, upon request, to the FCC.
- (d) Interference caused by out of band emissions. If any emission from a transmitter operating in this service results in interference to users of another radio service, the FCC may require a greater attenuation of that emission than

#### § 27.53 Emission limits.

##### (h) AWS emission limits

- (1) General protection levels. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10}(P)$  dB.
- (3) Measurement procedure.
  - (i) Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's

frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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

### Test Procedures:

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

#### 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  $10 \times \text{symbol period} \times \text{number of points}$ ). Increasing the sweep time (i.e., slowing the sweep speed) will allow for averaging over multiple symbols
  - 2) If the device cannot 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.
  - 2Tx MIMO correction:  $10 \log(N_{\text{ANT}}) = 10 \log(2) = 3.01 \text{ dB} // -13 \text{ dBm} - 10 \cdot \log(2) = -16.01 \text{ dBm}$
  - 4Tx MIMO correction:  $10 \log(N_{\text{ANT}}) = 10 \log(4) = 6.02 \text{ dB} // -13 \text{ dBm} - 10 \cdot \log(4) = -19.02 \text{ dBm}$
2. 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**

**(2 Port) B2 DSS 10 MHz 2to8 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.95	-20.97
		High	1 990.05	-26.49
	16QAM	Low	1 929.95	-23.66
		High	1 990.05	-24.13
	64QAM	Low	1 929.95	-19.44
		High	1 990.05	-24.58
	256QAM	Low	1 929.95	-21.72
		High	1 990.05	-25.22
1	QPSK	Low	1 929.95	-20.23
		High	1 990.05	-24.03
	16QAM	Low	1 929.95	-19.14
		High	1 990.05	-27.96
	64QAM	Low	1 929.95	-20.84
		High	1 990.05	-24.64
	256QAM	Low	1 929.95	-22.16
		High	1 990.05	-24.46

**(2 Port) B2 DSS 10 MHz 5to5 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.95	-21.34
		High	1 990.05	-22.91
	16QAM	Low	1 929.95	-21.56
		High	1 990.05	-25.59
	64QAM	Low	1 929.95	-20.64
		High	1 990.05	-24.00
	256QAM	Low	1 929.95	-22.89
		High	1 990.05	-24.89
1	QPSK	Low	1 929.95	-21.78
		High	1 990.05	-26.09
	16QAM	Low	1 929.95	-22.75
		High	1 990.05	-26.02
	64QAM	Low	1 929.95	-19.21
		High	1 990.05	-24.73
	256QAM	Low	1 929.95	-21.61
		High	1 990.05	-26.31

**(2 Port) B2 DSS 10 MHz 9to1 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.95	-25.09
		High	1 990.05	-24.64
	16QAM	Low	1 929.95	-23.76
		High	1 990.05	-24.53
	64QAM	Low	1 929.95	-20.72
		High	1 990.05	-24.89
	256QAM	Low	1 929.95	-24.17
		High	1 990.05	-24.51
1	QPSK	Low	1 929.95	-23.65
		High	1 990.05	-26.36
	16QAM	Low	1 929.95	-20.84
		High	1 990.05	-26.48
	64QAM	Low	1 929.95	-23.35
		High	1 990.05	-22.23
	256QAM	Low	1 929.95	-22.36
		High	1 990.05	-24.20

(2 Port) B2 DSS 15 MHz 2to8 1 Carrier

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.93	-18.48
		High	1 990.08	-20.10
	16QAM	Low	1 929.93	-18.19
		High	1 990.08	-17.96
	64QAM	Low	1 929.93	-19.73
		High	1 990.08	-21.08
	256QAM	Low	1 929.93	-20.86
		High	1 990.08	-18.61
1	QPSK	Low	1 929.93	-17.66
		High	1 990.08	-19.68
	16QAM	Low	1 929.93	-17.26
		High	1 990.08	-20.50
	64QAM	Low	1 929.93	-22.97
		High	1 990.08	-18.63
	256QAM	Low	1 929.93	-18.91
		High	1 990.08	-21.52

**(2 Port) B2 DSS 15 MHz 5to5 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.93	-18.23
		High	1 990.08	-23.88
	16QAM	Low	1 929.93	-18.61
		High	1 990.08	-21.03
	64QAM	Low	1 929.93	-20.49
		High	1 990.08	-22.03
	256QAM	Low	1 929.93	-20.17
		High	1 990.08	-20.89
1	QPSK	Low	1 929.93	-18.65
		High	1 990.08	-23.16
	16QAM	Low	1 929.93	-18.65
		High	1 990.08	-20.64
	64QAM	Low	1 929.93	-22.83
		High	1 990.08	-20.90
	256QAM	Low	1 929.93	-19.56
		High	1 990.08	-21.00

**(2 Port) B2 DSS 15 MHz 9to1 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.93	-20.47
		High	1 990.08	-20.79
	16QAM	Low	1 929.93	-22.16
		High	1 990.08	-24.04
	64QAM	Low	1 929.93	-21.53
		High	1 990.08	-21.50
	256QAM	Low	1 929.93	-17.03
		High	1 990.08	-21.42
1	QPSK	Low	1 929.93	-21.66
		High	1 990.08	-20.47
	16QAM	Low	1 929.93	-20.71
		High	1 990.08	-22.34
	64QAM	Low	1 929.93	-19.42
		High	1 990.08	-23.30
	256QAM	Low	1 929.93	-19.90
		High	1 990.08	-22.11

**(2 Port) B2 DSS 20 MHz 2to8 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.90	-17.52
		High	1 990.10	-17.85
	16QAM	Low	1 929.90	-19.36
		High	1 990.10	-21.67
	64QAM	Low	1 929.90	-18.58
		High	1 990.10	-18.67
	256QAM	Low	1 929.90	-20.96
		High	1 990.10	-17.84
1	QPSK	Low	1 929.90	-20.98
		High	1 990.10	-20.50
	16QAM	Low	1 929.90	-20.03
		High	1 990.10	-18.39
	64QAM	Low	1 929.90	-18.91
		High	1 990.10	-17.45
	256QAM	Low	1 929.90	-21.66
		High	1 990.10	-20.08

**(2 Port) B2 DSS 20 MHz 5to5 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.90	-21.78
		High	1 990.10	-20.44
	16QAM	Low	1 929.90	-19.05
		High	1 990.10	-20.28
	64QAM	Low	1 929.90	-23.62
		High	1 990.10	-20.50
	256QAM	Low	1 929.90	-18.57
		High	1 990.10	-22.69
1	QPSK	Low	1 929.90	-17.64
		High	1 990.10	-24.95
	16QAM	Low	1 929.90	-19.02
		High	1 990.10	-19.72
	64QAM	Low	1 929.90	-17.95
		High	1 990.10	-19.64
	256QAM	Low	1 929.90	-20.35
		High	1 990.10	-19.31

**(2 Port) B2 DSS 20 MHz 9to1 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.90	-20.93
		High	1 990.10	-23.56
	16QAM	Low	1 929.90	-24.49
		High	1 990.10	-19.12
	64QAM	Low	1 929.90	-20.84
		High	1 990.10	-21.91
	256QAM	Low	1 929.90	-18.47
		High	1 990.10	-23.67
1	QPSK	Low	1 929.90	-18.17
		High	1 990.10	-22.95
	16QAM	Low	1 929.90	-20.26
		High	1 990.10	-20.13
	64QAM	Low	1 929.90	-24.33
		High	1 990.10	-20.34
	256QAM	Low	1 929.90	-19.87
		High	1 990.10	-25.33

**(4 Port) B2 DSS 10 MHz 2to8 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.95	-22.02
		High	1 990.05	-26.43
	16QAM	Low	1 929.95	-22.50
		High	1 990.05	-28.19
	64QAM	Low	1 929.95	-25.39
		High	1 990.05	-27.75
	256QAM	Low	1 929.95	-22.46
		High	1 990.05	-25.67
1	QPSK	Low	1 929.95	-25.99
		High	1 990.05	-28.82
	16QAM	Low	1 929.95	-23.21
		High	1 990.05	-27.63
	64QAM	Low	1 929.95	-23.47
		High	1 990.05	-28.27
	256QAM	Low	1 929.95	-23.02
		High	1 990.05	-28.43
2	QPSK	Low	1 929.95	-22.45
		High	1 990.05	-29.16
	16QAM	Low	1 929.95	-25.60
		High	1 990.05	-27.22
	64QAM	Low	1 929.95	-25.63
		High	1 990.05	-26.65
	256QAM	Low	1 929.95	-23.53
		High	1 990.05	-29.40
3	QPSK	Low	1 929.95	-22.71
		High	1 990.05	-25.87
	16QAM	Low	1 929.95	-21.93
		High	1 990.05	-27.83
	64QAM	Low	1 929.95	-21.59
		High	1 990.05	-29.06
	256QAM	Low	1 929.95	-25.67
		High	1 990.05	-28.90

**(4 Port) B2 DSS 10 MHz 5to5 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.95	-25.74
		High	1 990.05	-24.67
	16QAM	Low	1 929.95	-24.20
		High	1 990.05	-27.71
	64QAM	Low	1 929.95	-24.04
		High	1 990.05	-27.81
	256QAM	Low	1 929.95	-23.13
		High	1 990.05	-27.35
1	QPSK	Low	1 929.95	-27.20
		High	1 990.05	-27.20
	16QAM	Low	1 929.95	-25.83
		High	1 990.05	-27.05
	64QAM	Low	1 929.95	-25.01
		High	1 990.05	-27.33
	256QAM	Low	1 929.95	-23.72
		High	1 990.05	-28.57
2	QPSK	Low	1 929.95	-24.43
		High	1 990.05	-25.61
	16QAM	Low	1 929.95	-21.63
		High	1 990.05	-26.61
	64QAM	Low	1 929.95	-24.10
		High	1 990.05	-27.07
	256QAM	Low	1 929.95	-23.54
		High	1 990.05	-28.71
3	QPSK	Low	1 929.95	-23.09
		High	1 990.05	-27.57
	16QAM	Low	1 929.95	-25.04
		High	1 990.05	-27.22
	64QAM	Low	1 929.95	-23.29
		High	1 990.05	-25.95
	256QAM	Low	1 929.95	-23.37
		High	1 990.05	-27.03

**(4 Port) B2 DSS 10 MHz 9to1 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.95	-25.96
		High	1 990.05	-26.49
	16QAM	Low	1 929.95	-26.28
		High	1 990.05	-27.95
	64QAM	Low	1 929.95	-25.04
		High	1 990.05	-28.02
	256QAM	Low	1 929.95	-23.66
		High	1 990.05	-25.75
1	QPSK	Low	1 929.95	-22.81
		High	1 990.05	-28.56
	16QAM	Low	1 929.95	-23.74
		High	1 990.05	-30.48
	64QAM	Low	1 929.95	-26.31
		High	1 990.05	-28.35
	256QAM	Low	1 929.95	-24.70
		High	1 990.05	-25.84
2	QPSK	Low	1 929.95	-24.13
		High	1 990.05	-26.68
	16QAM	Low	1 929.95	-26.74
		High	1 990.05	-31.12
	64QAM	Low	1 929.95	-22.78
		High	1 990.05	-28.17
	256QAM	Low	1 929.95	-23.80
		High	1 990.05	-28.67
3	QPSK	Low	1 929.95	-26.25
		High	1 990.05	-28.80
	16QAM	Low	1 929.95	-27.13
		High	1 990.05	-29.01
	64QAM	Low	1 929.95	-25.40
		High	1 990.05	-27.42
	256QAM	Low	1 929.95	-22.49
		High	1 990.05	-30.87

**(4 Port) B2 DSS 20 MHz 2to8 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.90	-22.17
		High	1 990.10	-22.20
	16QAM	Low	1 929.90	-28.10
		High	1 990.10	-24.47
	64QAM	Low	1 929.90	-22.17
		High	1 990.10	-23.30
	256QAM	Low	1 929.90	-21.05
		High	1 990.10	-28.11
1	QPSK	Low	1 929.90	-20.65
		High	1 990.10	-24.27
	16QAM	Low	1 929.90	-20.74
		High	1 990.10	-23.90
	64QAM	Low	1 929.90	-23.89
		High	1 990.10	-25.25
	256QAM	Low	1 929.90	-20.97
		High	1 990.10	-25.51
2	QPSK	Low	1 929.90	-20.40
		High	1 990.10	-24.21
	16QAM	Low	1 929.90	-20.46
		High	1 990.10	-24.16
	64QAM	Low	1 929.90	-21.70
		High	1 990.10	-28.02
	256QAM	Low	1 929.90	-20.82
		High	1 990.10	-24.83
3	QPSK	Low	1 929.90	-21.19
		High	1 990.10	-22.09
	16QAM	Low	1 929.90	-20.32
		High	1 990.10	-22.62
	64QAM	Low	1 929.90	-20.51
		High	1 990.10	-23.37
	256QAM	Low	1 929.90	-20.95
		High	1 990.10	-22.06

**(4 Port) B2 DSS 20 MHz 5to5 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.90	-20.32
		High	1 990.10	-23.11
	16QAM	Low	1 929.90	-21.93
		High	1 990.10	-21.44
	64QAM	Low	1 929.90	-21.86
		High	1 990.10	-22.95
	256QAM	Low	1 929.90	-20.15
		High	1 990.10	-24.07
1	QPSK	Low	1 929.90	-23.21
		High	1 990.10	-22.46
	16QAM	Low	1 929.90	-20.69
		High	1 990.10	-21.75
	64QAM	Low	1 929.90	-20.81
		High	1 990.10	-28.59
	256QAM	Low	1 929.90	-21.51
		High	1 990.10	-24.31
2	QPSK	Low	1 929.90	-22.14
		High	1 990.10	-21.41
	16QAM	Low	1 929.90	-20.26
		High	1 990.10	-21.75
	64QAM	Low	1 929.90	-20.87
		High	1 990.10	-24.72
	256QAM	Low	1 929.90	-23.50
		High	1 990.10	-25.21
3	QPSK	Low	1 929.90	-22.97
		High	1 990.10	-26.33
	16QAM	Low	1 929.90	-20.92
		High	1 990.10	-22.53
	64QAM	Low	1 929.90	-24.63
		High	1 990.10	-25.98
	256QAM	Low	1 929.90	-22.44
		High	1 990.10	-23.23

**(4 Port) B2 DSS 20 MHz 9to1 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.90	-20.79
		High	1 990.10	-24.72
	16QAM	Low	1 929.90	-21.46
		High	1 990.10	-22.42
	64QAM	Low	1 929.90	-20.87
		High	1 990.10	-28.76
	256QAM	Low	1 929.90	-23.21
		High	1 990.10	-23.98
1	QPSK	Low	1 929.90	-26.79
		High	1 990.10	-24.92
	16QAM	Low	1 929.90	-20.72
		High	1 990.10	-22.92
	64QAM	Low	1 929.90	-25.37
		High	1 990.10	-25.87
	256QAM	Low	1 929.90	-24.56
		High	1 990.10	-26.18
2	QPSK	Low	1 929.90	-22.14
		High	1 990.10	-25.78
	16QAM	Low	1 929.90	-25.52
		High	1 990.10	-23.09
	64QAM	Low	1 929.90	-25.07
		High	1 990.10	-22.72
	256QAM	Low	1 929.90	-26.56
		High	1 990.10	-24.01
3	QPSK	Low	1 929.90	-25.12
		High	1 990.10	-27.72
	16QAM	Low	1 929.90	-27.32
		High	1 990.10	-22.41
	64QAM	Low	1 929.90	-21.21
		High	1 990.10	-24.01
	256QAM	Low	1 929.90	-21.30
		High	1 990.10	-23.41

**(2 Port) 5G NR n2 5 MHz 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.98	-21.91
		High	1 990.03	-26.14
	16QAM	Low	1 929.98	-22.12
		High	1 990.03	-22.16
	64QAM	Low	1 929.98	-20.42
		High	1 990.03	-23.96
	256QAM	Low	1 929.98	-23.18
		High	1 990.03	-23.78
1	QPSK	Low	1 929.98	-23.98
		High	1 990.03	-25.62
	16QAM	Low	1 929.98	-22.33
		High	1 990.03	-22.84
	64QAM	Low	1 929.98	-21.83
		High	1 990.03	-25.14
	256QAM	Low	1 929.98	-24.45
		High	1 990.03	-24.25

**(2 Port) 5G NR n2 10 MHz 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.95	-20.89
		High	1 990.05	-24.44
	16QAM	Low	1 929.95	-22.74
		High	1 990.05	-25.48
	64QAM	Low	1 929.95	-20.16
		High	1 990.05	-23.92
	256QAM	Low	1 929.95	-21.22
		High	1 990.05	-25.02
1	QPSK	Low	1 929.95	-22.64
		High	1 990.05	-22.76
	16QAM	Low	1 929.95	-21.83
		High	1 990.05	-25.52
	64QAM	Low	1 929.95	-24.01
		High	1 990.05	-25.01
	256QAM	Low	1 929.95	-23.57
		High	1 990.05	-25.32

(2 Port) 5G NR n2 15 MHz 1 Carrier

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.93	-19.59
		High	1 990.08	-17.63
	16QAM	Low	1 929.93	-18.56
		High	1 990.08	-18.27
	64QAM	Low	1 929.93	-17.35
		High	1 990.08	-20.66
	256QAM	Low	1 929.93	-21.72
		High	1 990.08	-20.42
1	QPSK	Low	1 929.93	-17.33
		High	1 990.08	-20.92
	16QAM	Low	1 929.93	-17.83
		High	1 990.08	-18.75
	64QAM	Low	1 929.93	-18.13
		High	1 990.08	-19.13
	256QAM	Low	1 929.93	-22.65
		High	1 990.08	-21.82

**(2 Port) 5G NR n2 20 MHz 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.90	-17.30
		High	1 990.10	-19.32
	16QAM	Low	1 929.90	-17.23
		High	1 990.10	-18.99
	64QAM	Low	1 929.90	-22.74
		High	1 990.10	-20.88
	256QAM	Low	1 929.90	-18.20
		High	1 990.10	-21.64
1	QPSK	Low	1 929.90	-17.32
		High	1 990.10	-19.74
	16QAM	Low	1 929.90	-19.86
		High	1 990.10	-17.94
	64QAM	Low	1 929.90	-21.40
		High	1 990.10	-24.12
	256QAM	Low	1 929.90	-19.05
		High	1 990.10	-22.61

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

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.98	-24.76
		High	1 990.03	-27.48
	16QAM	Low	1 929.98	-24.61
		High	1 990.03	-23.81
	64QAM	Low	1 929.98	-23.67
		High	1 990.03	-26.61
	256QAM	Low	1 929.98	-24.64
		High	1 990.03	-25.50
1	QPSK	Low	1 929.98	-25.49
		High	1 990.03	-26.11
	16QAM	Low	1 929.98	-24.08
		High	1 990.03	-25.30
	64QAM	Low	1 929.98	-25.01
		High	1 990.03	-26.14
	256QAM	Low	1 929.98	-25.13
		High	1 990.03	-26.60
2	QPSK	Low	1 929.98	-24.00
		High	1 990.03	-26.96
	16QAM	Low	1 929.98	-24.33
		High	1 990.03	-24.38
	64QAM	Low	1 929.98	-23.59
		High	1 990.03	-26.40
	256QAM	Low	1 929.98	-23.85
		High	1 990.03	-27.31
3	QPSK	Low	1 929.98	-24.87
		High	1 990.03	-27.24
	16QAM	Low	1 929.98	-24.48
		High	1 990.03	-27.27
	64QAM	Low	1 929.98	-25.25
		High	1 990.03	-25.99
	256QAM	Low	1 929.98	-22.84
		High	1 990.03	-25.99

**(4 Port) 5G NR n2 10 MHz 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.95	-22.38
		High	1 990.05	-23.17
	16QAM	Low	1 929.95	-25.72
		High	1 990.05	-26.57
	64QAM	Low	1 929.95	-23.08
		High	1 990.05	-24.03
	256QAM	Low	1 929.95	-23.24
		High	1 990.05	-24.11
1	QPSK	Low	1 929.95	-21.32
		High	1 990.05	-24.45
	16QAM	Low	1 929.95	-23.30
		High	1 990.05	-26.03
	64QAM	Low	1 929.95	-21.68
		High	1 990.05	-22.79
	256QAM	Low	1 929.95	-22.35
		High	1 990.05	-23.01
2	QPSK	Low	1 929.95	-23.61
		High	1 990.05	-25.53
	16QAM	Low	1 929.95	-25.02
		High	1 990.05	-23.84
	64QAM	Low	1 929.95	-22.19
		High	1 990.05	-23.77
	256QAM	Low	1 929.95	-23.01
		High	1 990.05	-23.70
3	QPSK	Low	1 929.95	-21.81
		High	1 990.05	-24.21
	16QAM	Low	1 929.95	-25.92
		High	1 990.05	-25.32
	64QAM	Low	1 929.95	-23.59
		High	1 990.05	-21.67
	256QAM	Low	1 929.95	-22.05
		High	1 990.05	-24.36

**(4 Port) 5G NR n2 15 MHz 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.93	-21.57
		High	1 990.08	-20.43
	16QAM	Low	1 929.93	-20.42
		High	1 990.08	-23.21
	64QAM	Low	1 929.93	-21.08
		High	1 990.08	-21.34
	256QAM	Low	1 929.93	-23.43
		High	1 990.08	-22.11
1	QPSK	Low	1 929.93	-24.32
		High	1 990.08	-20.45
	16QAM	Low	1 929.93	-22.63
		High	1 990.08	-24.49
	64QAM	Low	1 929.93	-21.43
		High	1 990.08	-20.27
	256QAM	Low	1 929.93	-21.34
		High	1 990.08	-22.04
2	QPSK	Low	1 929.93	-20.46
		High	1 990.08	-21.10
	16QAM	Low	1 929.93	-20.78
		High	1 990.08	-20.10
	64QAM	Low	1 929.93	-21.55
		High	1 990.08	-21.21
	256QAM	Low	1 929.93	-20.35
		High	1 990.08	-21.02
3	QPSK	Low	1 929.93	-20.47
		High	1 990.08	-22.53
	16QAM	Low	1 929.93	-22.13
		High	1 990.08	-23.59
	64QAM	Low	1 929.93	-21.00
		High	1 990.08	-20.17
	256QAM	Low	1 929.93	-22.16
		High	1 990.08	-23.13

**(4 Port) 5G NR n2 20 MHz 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.90	-20.38
		High	1 990.10	-20.19
	16QAM	Low	1 929.90	-21.09
		High	1 990.10	-21.37
	64QAM	Low	1 929.90	-20.42
		High	1 990.10	-20.41
	256QAM	Low	1 929.90	-20.66
		High	1 990.10	-23.65
1	QPSK	Low	1 929.90	-23.96
		High	1 990.10	-20.49
	16QAM	Low	1 929.90	-20.05
		High	1 990.10	-21.08
	64QAM	Low	1 929.90	-20.96
		High	1 990.10	-22.93
	256QAM	Low	1 929.90	-20.95
		High	1 990.10	-21.70
2	QPSK	Low	1 929.90	-21.24
		High	1 990.10	-20.10
	16QAM	Low	1 929.90	-24.53
		High	1 990.10	-22.03
	64QAM	Low	1 929.90	-21.98
		High	1 990.10	-20.68
	256QAM	Low	1 929.90	-23.09
		High	1 990.10	-23.93
3	QPSK	Low	1 929.90	-25.80
		High	1 990.10	-20.08
	16QAM	Low	1 929.90	-20.86
		High	1 990.10	-20.35
	64QAM	Low	1 929.90	-20.20
		High	1 990.10	-20.09
	256QAM	Low	1 929.90	-22.96
		High	1 990.10	-21.79

**(2 Port) B66 DSS 10 MHz 2to8 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.95	-21.81
		High	2 180.05	-17.08
	16QAM	Low	2 109.95	-22.39
		High	2 180.05	-20.20
	64QAM	Low	2 109.95	-21.69
		High	2 180.05	-21.28
	256QAM	Low	2 109.95	-21.70
		High	2 180.05	-22.75
1	QPSK	Low	2 109.95	-21.24
		High	2 180.05	-19.26
	16QAM	Low	2 109.95	-22.59
		High	2 180.05	-23.72
	64QAM	Low	2 109.95	-21.24
		High	2 180.05	-22.46
	256QAM	Low	2 109.95	-21.12
		High	2 180.05	-20.76

(2 Port) B66 DSS 10 MHz 5to5 1 Carrier

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.95	-21.47
		High	2 180.05	-20.96
	16QAM	Low	2 109.95	-21.42
		High	2 180.05	-20.82
	64QAM	Low	2 109.95	-22.01
		High	2 180.05	-21.76
	256QAM	Low	2 109.95	-20.66
		High	2 180.05	-22.61
1	QPSK	Low	2 109.95	-23.03
		High	2 180.05	-20.20
	16QAM	Low	2 109.95	-23.23
		High	2 180.05	-20.91
	64QAM	Low	2 109.95	-24.02
		High	2 180.05	-21.40
	256QAM	Low	2 109.95	-22.72
		High	2 180.05	-21.35

**(2 Port) B66 DSS 10 MHz 9to1 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.95	-21.31
		High	2 180.05	-20.74
	16QAM	Low	2 109.95	-20.74
		High	2 180.05	-20.25
	64QAM	Low	2 109.95	-22.49
		High	2 180.05	-22.57
	256QAM	Low	2 109.95	-22.66
		High	2 180.05	-24.08
1	QPSK	Low	2 109.95	-24.43
		High	2 180.05	-20.56
	16QAM	Low	2 109.95	-21.98
		High	2 180.05	-22.95
	64QAM	Low	2 109.95	-26.01
		High	2 180.05	-22.86
	256QAM	Low	2 109.95	-23.26
		High	2 180.05	-21.35

(2 Port) B66 DSS 15 MHz 2to8 1 Carrier

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.93	-19.86
		High	2 180.08	-17.63
	16QAM	Low	2 109.93	-21.78
		High	2 180.08	-17.97
	64QAM	Low	2 109.93	-22.81
		High	2 180.08	-18.73
	256QAM	Low	2 109.93	-22.07
		High	2 180.08	-21.77
1	QPSK	Low	2 109.93	-23.84
		High	2 180.08	-19.54
	16QAM	Low	2 109.93	-24.01
		High	2 180.08	-17.13
	64QAM	Low	2 109.93	-24.13
		High	2 180.08	-17.19
	256QAM	Low	2 109.93	-21.81
		High	2 180.08	-17.69

**(2 Port) B66 DSS 15 MHz 5to5 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.93	-19.50
		High	2 180.08	-17.81
	16QAM	Low	2 109.93	-19.88
		High	2 180.08	-17.49
	64QAM	Low	2 109.93	-17.14
		High	2 180.08	-18.61
	256QAM	Low	2 109.93	-17.27
		High	2 180.08	-19.02
1	QPSK	Low	2 109.93	-19.96
		High	2 180.08	-19.72
	16QAM	Low	2 109.93	-20.85
		High	2 180.08	-20.11
	64QAM	Low	2 109.93	-20.24
		High	2 180.08	-17.91
	256QAM	Low	2 109.93	-21.57
		High	2 180.08	-17.61

(2 Port) B66 DSS 15 MHz 9to1 1 Carrier

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.93	-20.67
		High	2 180.08	-17.25
	16QAM	Low	2 109.93	-19.47
		High	2 180.08	-20.65
	64QAM	Low	2 109.93	-21.47
		High	2 180.08	-17.16
	256QAM	Low	2 109.93	-19.03
		High	2 180.08	-19.23
1	QPSK	Low	2 109.93	-22.58
		High	2 180.08	-22.90
	16QAM	Low	2 109.93	-25.02
		High	2 180.08	-17.04
	64QAM	Low	2 109.93	-22.05
		High	2 180.08	-19.58
	256QAM	Low	2 109.93	-20.69
		High	2 180.08	-18.67

(2 Port) B66 DSS 20 MHz 2to8 1 Carrier

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.90	-23.85
		High	2 180.10	-20.37
	16QAM	Low	2 109.90	-19.15
		High	2 180.10	-21.85
	64QAM	Low	2 109.90	-21.54
		High	2 180.10	-20.97
	256QAM	Low	2 109.90	-18.69
		High	2 180.10	-17.43
1	QPSK	Low	2 109.90	-21.73
		High	2 180.10	-18.35
	16QAM	Low	2 109.90	-21.42
		High	2 180.10	-19.61
	64QAM	Low	2 109.90	-20.76
		High	2 180.10	-17.98
	256QAM	Low	2 109.90	-20.09
		High	2 180.10	-17.70

(2 Port) B66 DSS 20 MHz 5to5 1 Carrier

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.90	-17.56
		High	2 180.10	-18.98
	16QAM	Low	2 109.90	-17.27
		High	2 180.10	-21.60
	64QAM	Low	2 109.90	-19.80
		High	2 180.10	-20.92
	256QAM	Low	2 109.90	-21.96
		High	2 180.10	-19.05
1	QPSK	Low	2 109.90	-21.26
		High	2 180.10	-19.18
	16QAM	Low	2 109.90	-20.45
		High	2 180.10	-18.25
	64QAM	Low	2 109.90	-22.00
		High	2 180.10	-20.20
	256QAM	Low	2 109.90	-21.17
		High	2 180.10	-17.20

(2 Port) B66 DSS 20 MHz 9to1 1 Carrier

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.90	-22.45
		High	2 180.10	-18.33
	16QAM	Low	2 109.90	-19.00
		High	2 180.10	-19.94
	64QAM	Low	2 109.90	-22.13
		High	2 180.10	-19.80
	256QAM	Low	2 109.90	-21.74
		High	2 180.10	-18.06
1	QPSK	Low	2 109.90	-24.66
		High	2 180.10	-18.43
	16QAM	Low	2 109.90	-25.67
		High	2 180.10	-18.69
	64QAM	Low	2 109.90	-24.01
		High	2 180.10	-17.49
	256QAM	Low	2 109.90	-22.02
		High	2 180.10	-20.30

**(4 Port) B66 DSS 10 MHz 2to8 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.95	-20.05
		High	2 180.05	-21.66
	16QAM	Low	2 109.95	-21.35
		High	2 180.05	-22.62
	64QAM	Low	2 109.95	-21.23
		High	2 180.05	-20.64
	256QAM	Low	2 109.95	-23.69
		High	2 180.05	-21.18
1	QPSK	Low	2 109.95	-22.01
		High	2 180.05	-20.97
	16QAM	Low	2 109.95	-22.41
		High	2 180.05	-21.95
	64QAM	Low	2 109.95	-20.50
		High	2 180.05	-20.34
	256QAM	Low	2 110.00	-20.06
		High	2 180.05	-20.63
2	QPSK	Low	2 109.95	-21.58
		High	2 180.05	-20.58
	16QAM	Low	2 109.95	-23.39
		High	2 180.05	-21.52
	64QAM	Low	2 109.95	-22.90
		High	2 180.05	-21.45
	256QAM	Low	2 110.00	-20.14
		High	2 180.05	-23.49
3	QPSK	Low	2 109.95	-22.27
		High	2 180.05	-21.23
	16QAM	Low	2 109.95	-23.09
		High	2 180.05	-22.33
	64QAM	Low	2 109.95	-21.63
		High	2 180.05	-21.32
	256QAM	Low	2 109.95	-23.18
		High	2 180.05	-22.41

**(4 Port) B66 DSS 10 MHz 5to5 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.95	-20.06
		High	2 180.05	-21.28
	16QAM	Low	2 109.95	-22.22
		High	2 180.05	-22.88
	64QAM	Low	2 109.95	-20.17
		High	2 180.05	-21.90
	256QAM	Low	2 110.00	-20.90
		High	2 180.05	-20.64
1	QPSK	Low	2 109.95	-21.96
		High	2 180.05	-20.44
	16QAM	Low	2 109.95	-22.79
		High	2 180.05	-22.39
	64QAM	Low	2 109.95	-22.38
		High	2 180.05	-22.16
	256QAM	Low	2 110.00	-20.11
		High	2 180.05	-21.85
2	QPSK	Low	2 109.95	-22.43
		High	2 180.05	-22.04
	16QAM	Low	2 109.95	-23.28
		High	2 180.05	-22.97
	64QAM	Low	2 109.95	-22.57
		High	2 180.05	-21.61
	256QAM	Low	2 110.00	-21.20
		High	2 180.05	-21.04
3	QPSK	Low	2 109.95	-22.59
		High	2 180.05	-21.97
	16QAM	Low	2 109.95	-23.37
		High	2 180.05	-22.00
	64QAM	Low	2 109.95	-22.59
		High	2 180.05	-24.02
	256QAM	Low	2 110.00	-20.12
		High	2 180.05	-21.90

**(4 Port) B66 DSS 10 MHz 9to1 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.95	-20.95
		High	2 180.05	-20.87
	16QAM	Low	2 109.95	-21.68
		High	2 180.05	-21.03
	64QAM	Low	2 109.95	-23.10
		High	2 180.05	-21.81
	256QAM	Low	2 110.00	-20.25
		High	2 180.05	-20.42
1	QPSK	Low	2 109.95	-22.27
		High	2 180.05	-21.23
	16QAM	Low	2 109.95	-22.31
		High	2 180.05	-21.55
	64QAM	Low	2 109.95	-22.22
		High	2 180.05	-21.68
	256QAM	Low	2 110.00	-20.06
		High	2 180.05	-20.14
2	QPSK	Low	2 109.95	-22.17
		High	2 180.05	-21.86
	16QAM	Low	2 109.95	-22.43
		High	2 180.05	-22.56
	64QAM	Low	2 109.95	-22.32
		High	2 180.05	-22.64
	256QAM	Low	2 110.00	-20.14
		High	2 180.05	-22.20
3	QPSK	Low	2 109.95	-22.80
		High	2 180.05	-21.85
	16QAM	Low	2 109.95	-22.21
		High	2 180.05	-23.85
	64QAM	Low	2 109.95	-23.44
		High	2 180.05	-22.31
	256QAM	Low	2 110.00	-21.73
		High	2 180.05	-22.12

**(4 Port) B66 DSS 15 MHz 2to8 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.93	-21.46
		High	2 180.08	-20.78
	16QAM	Low	2 109.93	-23.45
		High	2 180.08	-20.43
	64QAM	Low	2 109.93	-23.00
		High	2 180.08	-22.06
	256QAM	Low	2 109.93	-21.06
		High	2 180.08	-20.53
1	QPSK	Low	2 109.93	-20.99
		High	2 180.08	-20.48
	16QAM	Low	2 109.93	-21.46
		High	2 180.08	-20.20
	64QAM	Low	2 109.93	-21.27
		High	2 180.08	-20.22
	256QAM	Low	2 109.93	-20.77
		High	2 180.08	-20.60
2	QPSK	Low	2 109.93	-20.32
		High	2 180.08	-21.07
	16QAM	Low	2 109.93	-21.30
		High	2 180.08	-20.18
	64QAM	Low	2 109.93	-20.98
		High	2 180.08	-21.16
	256QAM	Low	2 109.93	-21.11
		High	2 180.08	-21.16
3	QPSK	Low	2 109.93	-20.90
		High	2 180.08	-21.20
	16QAM	Low	2 109.93	-21.89
		High	2 180.08	-20.47
	64QAM	Low	2 109.93	-22.58
		High	2 180.08	-20.14
	256QAM	Low	2 109.93	-20.76
		High	2 180.08	-20.91

**(4 Port) B66 DSS 15 MHz 5to5 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.93	-20.28
		High	2 180.08	-20.47
	16QAM	Low	2 109.93	-20.84
		High	2 180.08	-21.51
	64QAM	Low	2 109.93	-22.44
		High	2 180.08	-20.38
	256QAM	Low	2 109.93	-20.12
		High	2 180.08	-20.77
1	QPSK	Low	2 109.93	-21.42
		High	2 180.08	-23.36
	16QAM	Low	2 109.93	-23.92
		High	2 180.08	-20.95
	64QAM	Low	2 109.93	-23.76
		High	2 180.08	-21.05
	256QAM	Low	2 109.93	-20.48
		High	2 180.08	-21.22
2	QPSK	Low	2 109.93	-20.26
		High	2 180.08	-20.19
	16QAM	Low	2 109.93	-22.56
		High	2 180.08	-21.06
	64QAM	Low	2 109.93	-20.75
		High	2 180.08	-22.54
	256QAM	Low	2 109.93	-21.55
		High	2 180.08	-20.80
3	QPSK	Low	2 109.93	-22.16
		High	2 180.08	-21.18
	16QAM	Low	2 109.93	-21.70
		High	2 180.08	-20.28
	64QAM	Low	2 109.93	-20.30
		High	2 180.08	-22.18
	256QAM	Low	2 109.93	-23.21
		High	2 180.08	-20.07

**(4 Port) B66 DSS 15 MHz 9to1 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.93	-21.55
		High	2 180.08	-20.03
	16QAM	Low	2 109.93	-23.06
		High	2 180.08	-21.51
	64QAM	Low	2 109.93	-22.21
		High	2 180.08	-20.23
	256QAM	Low	2 109.93	-22.47
		High	2 180.08	-21.24
1	QPSK	Low	2 109.93	-20.48
		High	2 180.08	-21.61
	16QAM	Low	2 109.93	-24.50
		High	2 180.08	-23.21
	64QAM	Low	2 109.93	-23.10
		High	2 180.08	-21.37
	256QAM	Low	2 109.93	-20.16
		High	2 180.08	-20.60
2	QPSK	Low	2 109.93	-22.31
		High	2 180.08	-21.57
	16QAM	Low	2 109.93	-20.62
		High	2 180.08	-20.55
	64QAM	Low	2 109.93	-20.53
		High	2 180.08	-21.10
	256QAM	Low	2 109.93	-21.37
		High	2 180.08	-21.43
3	QPSK	Low	2 109.93	-22.85
		High	2 180.08	-20.55
	16QAM	Low	2 109.93	-22.30
		High	2 180.08	-22.65
	64QAM	Low	2 109.93	-28.06
		High	2 180.08	-22.15
	256QAM	Low	2 109.93	-20.73
		High	2 180.08	-24.39

**(4 Port) B66 DSS 20 MHz 2to8 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.90	-22.19
		High	2 180.10	-24.35
	16QAM	Low	2 109.90	-23.69
		High	2 180.10	-20.38
	64QAM	Low	2 109.90	-20.72
		High	2 180.10	-21.86
	256QAM	Low	2 109.90	-21.75
		High	2 180.10	-21.08
1	QPSK	Low	2 109.90	-20.27
		High	2 180.10	-20.09
	16QAM	Low	2 109.90	-20.17
		High	2 180.10	-20.95
	64QAM	Low	2 109.90	-20.75
		High	2 180.10	-21.17
	256QAM	Low	2 109.90	-21.98
		High	2 180.10	-20.05
2	QPSK	Low	2 109.90	-23.43
		High	2 180.10	-20.91
	16QAM	Low	2 109.90	-22.27
		High	2 180.10	-22.93
	64QAM	Low	2 109.90	-21.96
		High	2 180.10	-21.95
	256QAM	Low	2 109.90	-20.08
		High	2 180.10	-20.16
3	QPSK	Low	2 109.90	-20.91
		High	2 180.10	-20.81
	16QAM	Low	2 109.90	-21.75
		High	2 180.10	-20.66
	64QAM	Low	2 109.90	-20.19
		High	2 180.10	-22.54
	256QAM	Low	2 109.90	-20.61
		High	2 180.10	-20.10

**(4 Port) B66 DSS 20 MHz 5to5 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.90	-20.30
		High	2 180.10	-22.37
	16QAM	Low	2 109.90	-21.23
		High	2 180.10	-22.91
	64QAM	Low	2 109.90	-24.69
		High	2 180.10	-21.67
	256QAM	Low	2 109.90	-20.89
		High	2 180.10	-21.88
1	QPSK	Low	2 109.90	-21.10
		High	2 180.10	-20.56
	16QAM	Low	2 109.90	-20.57
		High	2 180.10	-21.24
	64QAM	Low	2 109.90	-20.61
		High	2 180.10	-22.80
	256QAM	Low	2 109.90	-22.27
		High	2 180.10	-22.66
2	QPSK	Low	2 109.90	-20.67
		High	2 180.10	-26.02
	16QAM	Low	2 109.90	-21.21
		High	2 180.10	-21.03
	64QAM	Low	2 109.90	-22.57
		High	2 180.10	-22.21
	256QAM	Low	2 109.90	-20.74
		High	2 180.10	-22.47
3	QPSK	Low	2 109.90	-20.95
		High	2 180.10	-24.16
	16QAM	Low	2 109.90	-25.35
		High	2 180.10	-24.05
	64QAM	Low	2 109.90	-20.72
		High	2 180.10	-20.28
	256QAM	Low	2 109.90	-23.66
		High	2 180.10	-20.33

**(4 Port) B66 DSS 20 MHz 9to1 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.90	-20.64
		High	2 180.10	-21.54
	16QAM	Low	2 109.90	-21.01
		High	2 180.10	-20.83
	64QAM	Low	2 109.90	-21.38
		High	2 180.10	-23.17
	256QAM	Low	2 109.90	-21.70
		High	2 180.10	-21.44
1	QPSK	Low	2 109.90	-20.53
		High	2 180.10	-22.78
	16QAM	Low	2 109.90	-25.11
		High	2 180.10	-22.68
	64QAM	Low	2 109.90	-22.84
		High	2 180.10	-24.29
	256QAM	Low	2 109.90	-20.61
		High	2 180.10	-21.64
2	QPSK	Low	2 109.90	-21.57
		High	2 180.10	-21.24
	16QAM	Low	2 109.90	-22.23
		High	2 180.10	-21.79
	64QAM	Low	2 109.90	-22.20
		High	2 180.10	-23.14
	256QAM	Low	2 109.90	-22.00
		High	2 180.10	-21.62
3	QPSK	Low	2 109.90	-23.64
		High	2 180.10	-23.35
	16QAM	Low	2 109.90	-23.44
		High	2 180.10	-25.39
	64QAM	Low	2 109.90	-21.29
		High	2 180.10	-22.26
	256QAM	Low	2 109.90	-22.35
		High	2 180.10	-22.75

**(2 Port) LTE B66 5 MHz 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
1	QPSK	Low	2 109.98	-21.73
		High	2 180.03	-18.79
	16QAM	Low	2 109.98	-21.14
		High	2 180.30	-21.77

**(2 Port) LTE B66 10 MHz 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
1	QPSK	Low	2 109.95	-20.66
		High	2 180.05	-20.42
	16QAM	Low	2 109.95	-23.61
		High	2 180.05	-21.03

**(2 Port) LTE B66 15 MHz 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
1	QPSK	Low	2 109.93	-23.45
		High	2 180.08	-22.04
	16QAM	Low	2 109.93	-22.24
		High	2 180.08	-18.02

**(2 Port) LTE B66 20 MHz 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
1	QPSK	Low	2 109.90	-20.79
		High	2 180.10	-18.95
	16QAM	Low	2 109.90	-20.62
		High	2 180.10	-17.49

**(4 Port) LTE B66 5 MHz 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.98	-25.94
		High	2 180.03	-25.01
	16QAM	Low	2 109.98	-27.03
		High	2 180.03	-23.82

**(4 Port) LTE B66 10 MHz 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
3	QPSK	Low	2 109.95	-23.07
		High	2 180.05	-23.66
	16QAM	Low	2 109.95	-23.94
		High	2 180.05	-23.72

**(4 Port) LTE B66 15 MHz 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
3	QPSK	Low	2 109.93	-22.21
		High	2 180.08	-20.29
	16QAM	Low	2 109.93	-22.00
		High	2 180.08	-22.62

**(4 Port) LTE B66 20 MHz 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.90	-23.71
		High	2 180.10	-20.33
	16QAM	Low	2 109.90	-21.27
		High	2 180.10	-22.11

## (2 Port) 5G NR n66 5 MHz 1 Carrier

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.98	-20.65
		High	2 180.03	-23.65
	16QAM	Low	2 109.98	-21.25
		High	2 180.03	-20.77
	64QAM	Low	2 109.98	-22.56
		High	2 180.03	-22.35
	256QAM	Low	2 109.98	-22.37
		High	2 180.03	-22.82
1	QPSK	Low	2 109.98	-23.52
		High	2 180.03	-22.74
	16QAM	Low	2 109.98	-23.48
		High	2 180.03	-21.32
	64QAM	Low	2 109.98	-23.25
		High	2 180.03	-23.00
	256QAM	Low	2 109.98	-23.85
		High	2 180.03	-22.40

## (2 Port) 5G NR n66 10 MHz 1 Carrier

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.95	-22.73
		High	2 180.05	-21.09
	16QAM	Low	2 109.95	-21.00
		High	2 180.05	-24.01
	64QAM	Low	2 109.95	-18.16
		High	2 180.05	-19.89
	256QAM	Low	2 109.95	-20.57
		High	2 180.05	-19.99
1	QPSK	Low	2 109.95	-20.53
		High	2 180.05	-22.57
	16QAM	Low	2 109.95	-21.13
		High	2 180.05	-24.67
	64QAM	Low	2 109.95	-19.35
		High	2 180.05	-21.54
	256QAM	Low	2 109.95	-20.19
		High	2 180.05	-19.63

**(2 Port) 5G NR n66 15 MHz 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.93	-18.69
		High	2 180.08	-18.28
	16QAM	Low	2 109.93	-17.89
		High	2 180.08	-18.96
	64QAM	Low	2 109.93	-17.81
		High	2 180.08	-18.21
	256QAM	Low	2 109.93	-18.39
		High	2 180.08	-19.05
1	QPSK	Low	2 109.93	-19.80
		High	2 180.08	-19.16
	16QAM	Low	2 109.93	-17.72
		High	2 180.08	-17.70
	64QAM	Low	2 109.93	-18.17
		High	2 180.08	-18.02
	256QAM	Low	2 109.93	-19.85
		High	2 180.08	-19.96

**(2 Port) 5G NR n66 20 MHz 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.90	-19.76
		High	2 180.10	-18.14
	16QAM	Low	2 109.90	-19.34
		High	2 180.10	-17.55
	64QAM	Low	2 109.90	-19.29
		High	2 180.10	-18.69
	256QAM	Low	2 109.90	-20.14
		High	2 180.10	-18.35
1	QPSK	Low	2 109.90	-21.45
		High	2 180.10	-19.51
	16QAM	Low	2 109.90	-21.63
		High	2 180.10	-17.82
	64QAM	Low	2 109.90	-24.01
		High	2 180.10	-22.32
	256QAM	Low	2 109.90	-21.16
		High	2 180.10	-21.74

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

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.98	-25.74
		High	2 180.03	-23.69
	16QAM	Low	2 109.98	-24.58
		High	2 180.03	-23.85
	64QAM	Low	2 109.98	-25.87
		High	2 180.03	-25.33
	256QAM	Low	2 109.98	-22.72
		High	2 180.03	-24.82
1	QPSK	Low	2 109.98	-25.91
		High	2 180.03	-25.43
	16QAM	Low	2 109.98	-24.22
		High	2 180.03	-24.95
	64QAM	Low	2 109.98	-24.77
		High	2 180.03	-24.45
	256QAM	Low	2 109.98	-25.29
		High	2 180.03	-24.17
2	QPSK	Low	2 109.98	-26.36
		High	2 180.03	-26.05
	16QAM	Low	2 109.98	-25.25
		High	2 180.03	-25.86
	64QAM	Low	2 109.98	-25.26
		High	2 180.03	-25.60
	256QAM	Low	2 109.98	-24.52
		High	2 180.03	-25.49
3	QPSK	Low	2 109.98	-25.18
		High	2 180.03	-26.56
	16QAM	Low	2 109.98	-24.97
		High	2 180.03	-24.62
	64QAM	Low	2 109.98	-23.10
		High	2 180.03	-26.75
	256QAM	Low	2 109.98	-25.90
		High	2 180.03	-24.34

**(4 Port) 5G NR n66 10 MHz 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.95	-23.57
		High	2 180.05	-20.55
	16QAM	Low	2 109.95	-24.40
		High	2 180.05	-23.07
	64QAM	Low	2 109.95	-24.73
		High	2 180.05	-22.78
	256QAM	Low	2 109.95	-24.71
		High	2 180.05	-22.91
1	QPSK	Low	2 109.95	-23.95
		High	2 180.05	-20.11
	16QAM	Low	2 109.95	-23.68
		High	2 180.05	-22.58
	64QAM	Low	2 109.95	-24.01
		High	2 180.05	-22.98
	256QAM	Low	2 109.95	-24.71
		High	2 180.05	-22.26
2	QPSK	Low	2 109.95	-21.87
		High	2 180.05	-20.64
	16QAM	Low	2 109.95	-23.39
		High	2 180.05	-23.34
	64QAM	Low	2 109.95	-23.81
		High	2 180.05	-21.63
	256QAM	Low	2 109.95	-24.37
		High	2 180.05	-22.87
3	QPSK	Low	2 109.95	-24.29
		High	2 180.05	-21.67
	16QAM	Low	2 109.95	-22.87
		High	2 180.05	-23.99
	64QAM	Low	2 109.95	-22.85
		High	2 180.05	-21.98
	256QAM	Low	2 109.95	-24.17
		High	2 180.05	-22.72

**(4 Port) 5G NR n66 15 MHz 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.93	-21.17
		High	2 180.00	-21.06
	16QAM	Low	2 109.93	-23.01
		High	2 180.00	-21.27
	64QAM	Low	2 109.93	-21.31
		High	2 180.00	-21.42
	256QAM	Low	2 109.93	-21.00
		High	2 180.00	-21.38
1	QPSK	Low	2 109.93	-22.62
		High	2 180.00	-20.66
	16QAM	Low	2 109.93	-23.27
		High	2 180.00	-20.93
	64QAM	Low	2 109.93	-21.71
		High	2 180.00	-21.20
	256QAM	Low	2 109.93	-22.46
		High	2 180.00	-20.99
2	QPSK	Low	2 109.93	-20.78
		High	2 180.00	-20.76
	16QAM	Low	2 109.93	-21.03
		High	2 180.00	-21.05
	64QAM	Low	2 109.93	-22.45
		High	2 180.00	-20.78
	256QAM	Low	2 109.93	-20.72
		High	2 180.00	-20.69
3	QPSK	Low	2 109.93	-20.95
		High	2 180.00	-20.79
	16QAM	Low	2 109.93	-22.03
		High	2 180.00	-20.65
	64QAM	Low	2 109.93	-20.94
		High	2 180.00	-20.69
	256QAM	Low	2 109.93	-21.30
		High	2 180.00	-21.03

**(4 Port) 5G NR n66 20 MHz 1 Carrier**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 110.00	-22.50
		High	2 180.00	-22.34
	16QAM	Low	2 110.00	-23.42
		High	2 180.00	-20.61
	64QAM	Low	2 110.00	-20.83
		High	2 180.00	-22.85
	256QAM	Low	2 110.00	-21.52
		High	2 180.00	-22.14
1	QPSK	Low	2 110.00	-24.44
		High	2 180.00	-20.71
	16QAM	Low	2 110.00	-21.64
		High	2 180.00	-21.19
	64QAM	Low	2 110.00	-22.82
		High	2 180.00	-22.69
	256QAM	Low	2 110.00	-22.00
		High	2 180.00	-20.57
2	QPSK	Low	2 110.00	-20.88
		High	2 180.00	-21.33
	16QAM	Low	2 110.00	-23.63
		High	2 180.00	-21.14
	64QAM	Low	2 110.00	-20.72
		High	2 180.00	-24.45
	256QAM	Low	2 110.00	-21.10
		High	2 180.00	-21.48
3	QPSK	Low	2 110.00	-20.73
		High	2 180.00	-21.64
	16QAM	Low	2 110.00	-25.05
		High	2 180.00	-22.29
	64QAM	Low	2 110.00	-22.18
		High	2 180.00	-21.02
	256QAM	Low	2 110.00	-21.06
		High	2 180.00	-22.57

Tabular Data of Contiguous Out-of-band Unwanted Emissions

(2 Port) B2 DSS 10 MHz 9to1 1 Carrier + LTE B2 5 MHz 1 Carrier [2 Carrier]

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.98	-24.82
		High	1 990.03	-27.35
	16QAM	Low	1 929.98	-25.17
		High	1 990.03	-26.93
	64QAM	Low	1 929.98	-23.80
		High	1 990.03	-27.00
	256QAM	Low	1 929.98	-23.46
		High	1 990.03	-27.07
1	QPSK	Low	1 929.98	-25.74
		High	1 990.03	-26.32
	16QAM	Low	1 929.98	-25.77
		High	1 990.03	-27.85
	64QAM	Low	1 929.98	-23.91
		High	1 990.03	-26.78
	256QAM	Low	1 929.98	-24.17
		High	1 990.03	-25.20

**(4 Port) B2 DSS 10 MHz 9to1 1 Carrier + LTE B2 5 MHz 1 Carrier [2 Carrier]**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.98	-27.75
		High	1 990.03	-28.69
	16QAM	Low	1 929.98	-27.73
		High	1 990.03	-28.58
	64QAM	Low	1 929.98	-25.44
		High	1 990.03	-28.89
	256QAM	Low	1 929.98	-28.07
		High	1 990.03	-27.69
1	QPSK	Low	1 929.98	-28.28
		High	1 990.03	-28.54
	16QAM	Low	1 929.98	-25.56
		High	1 990.03	-29.53
	64QAM	Low	1 929.98	-25.29
		High	1 990.03	-28.08
	256QAM	Low	1 929.98	-25.01
		High	1 990.03	-27.83
2	QPSK	Low	1 929.98	-26.70
		High	1 990.03	-27.75
	16QAM	Low	1 929.98	-26.33
		High	1 990.03	-29.25
	64QAM	Low	1 929.98	-27.44
		High	1 990.03	-28.15
	256QAM	Low	1 929.98	-27.17
		High	1 990.03	-28.89
3	QPSK	Low	1 929.98	-25.64
		High	1 990.03	-27.29
	16QAM	Low	1 929.98	-27.77
		High	1 990.03	-27.91
	64QAM	Low	1 929.98	-26.54
		High	1 990.03	-28.51
	256QAM	Low	1 929.98	-25.16
		High	1 990.03	-27.52

**(2 Port) LTE B2 5 MHz 1 Carrier + 5G NR n2 5 MHz 1 Carrier [2 Carrier]**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.98	-23.04
		High	1 990.03	-26.70
	16QAM	Low	1 929.98	-22.91
		High	1 990.03	-24.43
	64QAM	Low	1 929.98	-23.17
		High	1 990.03	-24.09
	256QAM	Low	1 929.98	-24.10
		High	1 990.03	-24.33
1	QPSK	Low	1 929.98	-24.86
		High	1 990.03	-25.42
	16QAM	Low	1 929.98	-25.45
		High	1 990.03	-24.39
	64QAM	Low	1 929.98	-24.36
		High	1 990.03	-25.91
	256QAM	Low	1 929.98	-20.93
		High	1 990.03	-24.30

**(2 Port) LTE B2 10 MHz 1 Carrier + 5G NR n2 20 MHz 1 Carrier [2 Carrier]**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.95	-27.18
		High	1 990.05	-28.80
	16QAM	Low	1 929.95	-29.13
		High	1 990.05	-31.10
	64QAM	Low	1 929.95	-26.66
		High	1 990.05	-29.69
	256QAM	Low	1 929.95	-29.07
		High	1 990.05	-30.52
1	QPSK	Low	1 929.95	-26.29
		High	1 990.05	-29.22
	16QAM	Low	1 929.95	-28.86
		High	1 990.05	-31.65
	64QAM	Low	1 929.95	-26.50
		High	1 990.05	-29.97
	256QAM	Low	1 929.95	-27.57
		High	1 990.05	-27.59

**(4 Port) LTE B2 5 MHz 1 Carrier + 5G NR n2 5 MHz 1 Carrier [2 Carrier]**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.98	-25.04
		High	1 990.03	-26.89
	16QAM	Low	1 929.98	-27.30
		High	1 990.03	-25.93
	64QAM	Low	1 929.98	-24.14
		High	1 990.03	-27.44
256QAM	Low	1 929.98	-24.65	
	High	1 990.03	-26.59	
1	QPSK	Low	1 929.98	-25.64
		High	1 990.03	-27.53
	16QAM	Low	1 929.98	-27.19
		High	1 990.03	-26.54
	64QAM	Low	1 929.98	-25.66
		High	1 990.03	-28.34
256QAM	Low	1 929.98	-22.03	
	High	1 990.03	-25.38	
2	QPSK	Low	1 929.98	-24.11
		High	1 990.03	-28.34
	16QAM	Low	1 929.98	-26.65
		High	1 990.03	-25.94
	64QAM	Low	1 929.98	-23.90
		High	1 990.03	-28.46
256QAM	Low	1 929.98	-23.76	
	High	1 990.03	-27.82	
3	QPSK	Low	1 929.98	-25.04
		High	1 990.03	-27.33
	16QAM	Low	1 929.98	-24.91
		High	1 990.03	-26.16
	64QAM	Low	1 929.98	-25.21
		High	1 990.03	-26.81
256QAM	Low	1 929.98	-23.75	
	High	1 990.03	-27.26	

**(4 Port) LTE B2 10 MHz 1 Carrier + 5G NR n2 20 MHz 1 Carrier [2 Carrier]**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.95	-28.62
		High	1 990.05	-32.23
	16QAM	Low	1 929.95	-30.11
		High	1 990.05	-30.14
	64QAM	Low	1 929.95	-31.92
		High	1 990.05	-31.35
	256QAM	Low	1 929.95	-31.40
		High	1 990.05	-30.85
1	QPSK	Low	1 929.95	-28.81
		High	1 990.05	-31.88
	16QAM	Low	1 929.95	-31.02
		High	1 990.05	-29.71
	64QAM	Low	1 929.95	-31.75
		High	1 990.05	-31.90
	256QAM	Low	1 929.95	-30.98
		High	1 990.05	-30.31
2	QPSK	Low	1 929.95	-28.72
		High	1 990.05	-30.40
	16QAM	Low	1 929.95	-32.24
		High	1 990.05	-31.26
	64QAM	Low	1 929.95	-31.10
		High	1 990.05	-31.67
	256QAM	Low	1 929.95	-30.71
		High	1 990.05	-30.81
3	QPSK	Low	1 929.95	-29.38
		High	1 990.05	-29.50
	16QAM	Low	1 929.95	-31.35
		High	1 990.05	-32.87
	64QAM	Low	1 929.95	-30.21
		High	1 990.05	-31.74
	256QAM	Low	1 929.95	-29.95
		High	1 990.05	-30.53

**(2 Port) B66 DSS 10 MHz 9to1 1 Carrier + LTE B66 5 MHz 1 Carrier [2 Carrier]**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 110.00	-23.78
		High	2 180.05	-17.97
	16QAM	Low	2 110.00	-21.77
		High	2 180.05	-18.12
	64QAM	Low	2 110.00	-21.75
		High	2 180.05	-20.71
	256QAM	Low	2 109.98	-23.21
		High	2 180.05	-17.39
1	QPSK	Low	2 110.00	-22.54
		High	2 180.05	-18.58
	16QAM	Low	2 110.00	-25.15
		High	2 180.05	-20.26
	64QAM	Low	2 110.00	-23.47
		High	2 180.05	-20.97
	256QAM	Low	2 109.98	-24.88
		High	2 180.05	-17.95

**(4 Port) B66 DSS 10 MHz 9to1 1 Carrier + LTE B66 5 MHz 1 Carrier [2 Carrier]**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.98	-23.98
		High	2 180.05	-20.55
	16QAM	Low	2 109.98	-25.48
		High	2 180.05	-22.75
	64QAM	Low	2 109.98	-23.59
		High	2 180.05	-20.10
256QAM	Low	2 109.98	-24.43	
	High	2 180.05	-20.13	
1	QPSK	Low	2 109.98	-30.03
		High	2 180.05	-20.22
	16QAM	Low	2 109.98	-25.93
		High	2 180.05	-20.59
	64QAM	Low	2 109.98	-27.75
		High	2 180.05	-23.84
256QAM	Low	2 109.98	-24.68	
	High	2 180.05	-21.61	
2	QPSK	Low	2 109.98	-24.99
		High	2 180.05	-21.06
	16QAM	Low	2 109.98	-26.79
		High	2 180.05	-21.26
	64QAM	Low	2 109.98	-23.69
		High	2 180.05	-20.28
256QAM	Low	2 109.98	-25.89	
	High	2 180.05	-20.07	
3	QPSK	Low	2 109.98	-27.69
		High	2 180.05	-21.54
	16QAM	Low	2 109.98	-24.51
		High	2 180.05	-20.82
	64QAM	Low	2 109.98	-27.24
		High	2 180.05	-20.64
256QAM	Low	2 109.98	-25.42	
	High	2 180.05	-21.74	

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

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 110.00	-23.21
		High	2 180.00	-23.39
	16QAM	Low	2 110.00	-24.84
		High	2 180.00	-23.09
	64QAM	Low	2 110.00	-20.76
		High	2 180.00	-22.10
	256QAM	Low	2 110.00	-22.83
		High	2 180.00	-22.91
1	QPSK	Low	2 110.00	-24.08
		High	2 180.00	-23.38
	16QAM	Low	2 110.00	-25.55
		High	2 180.00	-24.51
	64QAM	Low	2 110.00	-24.52
		High	2 180.00	-23.60
	256QAM	Low	2 110.00	-23.27
		High	2 180.00	-21.33

## (2 Port) LTE B66 20 MHz 1 Carrier + 5G NR n66 20 MHz 1 Carrier [2 Carrier]

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 110.00	-27.62
		High	2 180.00	-24.26
	16QAM	Low	2 110.00	-28.57
		High	2 180.00	-27.41
	64QAM	Low	2 110.00	-25.67
		High	2 180.00	-25.68
	256QAM	Low	2 110.00	-25.75
		High	2 180.00	-26.11
1	QPSK	Low	2 110.00	-30.15
		High	2 180.00	-21.60
	16QAM	Low	2 110.00	-29.16
		High	2 180.00	-22.01
	64QAM	Low	2 110.00	-29.57
		High	2 180.00	-24.07
	256QAM	Low	2 110.00	-25.72
		High	2 180.00	-20.89

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

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 110.00	-27.30
		High	2 180.03	-22.96
	16QAM	Low	2 110.00	-26.85
		High	2 180.03	-26.08
	64QAM	Low	2 110.00	-27.04
		High	2 180.03	-24.84
256QAM	Low	2 110.00	-27.01	
	High	2 180.03	-24.20	
1	QPSK	Low	2 110.00	-27.75
		High	2 180.03	-23.95
	16QAM	Low	2 110.00	-27.25
		High	2 180.03	-23.79
	64QAM	Low	2 110.00	-26.58
		High	2 180.03	-24.01
256QAM	Low	2 110.00	-29.07	
	High	2 180.03	-24.22	
2	QPSK	Low	2 110.00	-25.47
		High	2 180.03	-25.22
	16QAM	Low	2 110.00	-24.70
		High	2 180.03	-25.13
	64QAM	Low	2 110.00	-24.83
		High	2 180.03	-23.27
256QAM	Low	2 110.00	-24.59	
	High	2 180.03	-24.24	
3	QPSK	Low	2 110.00	-25.81
		High	2 180.03	-25.16
	16QAM	Low	2 110.00	-26.38
		High	2 180.03	-24.23
	64QAM	Low	2 110.00	-26.78
		High	2 180.03	-25.13
256QAM	Low	2 110.00	-26.33	
	High	2 180.03	-24.62	

**(4 Port) LTE B66 20 MHz 1 Carrier + 5G NR n66 20 MHz 1 Carrier [2 Carrier]**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.98	-25.88
		High	2 180.03	-27.23
	16QAM	Low	2 109.98	-27.27
		High	2 180.03	-26.67
	64QAM	Low	2 109.98	-25.58
		High	2 180.03	-25.75
256QAM	Low	2 109.98	-23.55	
	High	2 180.03	-26.52	
1	QPSK	Low	2 109.98	-27.45
		High	2 180.03	-26.04
	16QAM	Low	2 109.98	-30.14
		High	2 180.03	-26.28
	64QAM	Low	2 109.98	-23.33
		High	2 180.03	-26.11
256QAM	Low	2 109.98	-27.36	
	High	2 180.03	-22.98	
2	QPSK	Low	2 109.98	-23.33
		High	2 180.03	-26.37
	16QAM	Low	2 109.98	-23.84
		High	2 180.03	-24.01
	64QAM	Low	2 109.98	-22.67
		High	2 180.03	-23.45
256QAM	Low	2 109.98	-26.69	
	High	2 180.03	-24.70	
3	QPSK	Low	2 109.98	-24.94
		High	2 180.03	-24.59
	16QAM	Low	2 109.98	-25.07
		High	2 180.03	-24.81
	64QAM	Low	2 109.98	-21.87
		High	2 180.03	-24.00
256QAM	Low	2 109.98	-26.89	
	High	2 180.03	-25.08	

**(2 Port) B2 DSS 20 MHz 9to1 1 Carrier + LTE B2 5 MHz 1 Carrier + LTE B2 5 MHz 1 Carrier [3 Carrier]**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.98	-27.16
		High	1 990.03	-29.65
	16QAM	Low	1 929.98	-27.36
		High	1 990.03	-29.52
	64QAM	Low	1 929.98	-27.18
		High	1 990.03	-28.00
	256QAM	Low	1 929.98	-26.58
		High	1 990.03	-29.76
1	QPSK	Low	1 929.98	-25.29
		High	1 990.03	-28.05
	16QAM	Low	1 929.98	-28.94
		High	1 990.03	-30.08
	64QAM	Low	1 929.98	-27.83
		High	1 990.03	-29.37
	256QAM	Low	1 929.98	-28.11
		High	1 990.03	-28.39

**(4 Port) B2 DSS 20 MHz 9to1 1 Carrier + LTE B2 5 MHz 1 Carrier + LTE B2 5 MHz 1 Carrier [3 Carrier]**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.98	-28.47
		High	1 990.03	-30.52
	16QAM	Low	1 929.98	-28.02
		High	1 990.03	-31.50
	64QAM	Low	1 929.98	-29.52
		High	1 990.03	-30.75
256QAM	Low	1 929.98	-28.84	
	High	1 990.03	-30.51	
1	QPSK	Low	1 929.98	-27.84
		High	1 990.03	-30.69
	16QAM	Low	1 929.98	-31.87
		High	1 990.03	-31.44
	64QAM	Low	1 929.98	-31.36
		High	1 990.03	-29.26
256QAM	Low	1 929.98	-27.64	
	High	1 990.03	-30.48	
2	QPSK	Low	1 929.98	-28.42
		High	1 990.03	-30.44
	16QAM	Low	1 929.98	-29.29
		High	1 990.03	-30.51
	64QAM	Low	1 929.98	-30.26
		High	1 990.03	-29.78
256QAM	Low	1 929.98	-29.42	
	High	1 990.03	-30.72	
3	QPSK	Low	1 929.98	-32.08
		High	1 990.03	-30.20
	16QAM	Low	1 929.98	-34.81
		High	1 990.03	-31.99
	64QAM	Low	1 929.98	-29.56
		High	1 990.03	-31.31
256QAM	Low	1 929.98	-30.67	
	High	1 990.03	-30.32	

**(2 Port) LTE B2 5 MHz 1 Carrier + LTE B2 5 MHz 1 Carrier + 5G NR n2 5 MHz 1 Carrier [3 Carrier]**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.98	-25.21
		High	1 990.03	-27.23
	16QAM	Low	1 929.98	-27.00
		High	1 990.03	-26.44
	64QAM	Low	1 929.98	-25.91
		High	1 990.03	-26.81
	256QAM	Low	1 929.98	-23.53
		High	1 990.03	-26.84
1	QPSK	Low	1 929.98	-23.39
		High	1 990.03	-28.15
	16QAM	Low	1 929.98	-26.11
		High	1 990.03	-27.10
	64QAM	Low	1 929.98	-24.17
		High	1 990.03	-26.97
	256QAM	Low	1 929.98	-25.02
		High	1 990.03	-27.42

## (2 Port) LTE B2 5 MHz 1 Carrier + LTE B2 5 MHz 1 Carrier + 5G NR n2 20 MHz 1 Carrier [3 Carrier]

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.98	-28.43
		High	1 990.03	-29.47
	16QAM	Low	1 929.98	-25.91
		High	1 990.03	-30.76
	64QAM	Low	1 929.98	-26.38
		High	1 990.03	-28.95
	256QAM	Low	1 929.98	-26.70
		High	1 990.03	-30.21
1	QPSK	Low	1 929.98	-26.17
		High	1 990.03	-28.24
	16QAM	Low	1 929.98	-29.92
		High	1 990.03	-28.25
	64QAM	Low	1 929.98	-27.79
		High	1 990.03	-30.28
	256QAM	Low	1 929.98	-27.74
		High	1 990.03	-29.86

**(4 Port) LTE B2 5 MHz 1 Carrier + LTE B2 5 MHz 1 Carrier + 5G NR n2 5 MHz 1 Carrier [3 Carrier]**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.98	-26.14
		High	1 990.03	-29.64
	16QAM	Low	1 929.98	-26.07
		High	1 990.03	-28.78
	64QAM	Low	1 929.98	-25.91
		High	1 990.03	-28.84
256QAM	Low	1 929.98	-25.13	
	High	1 990.03	-28.69	
1	QPSK	Low	1 929.98	-27.55
		High	1 990.03	-29.87
	16QAM	Low	1 929.98	-27.33
		High	1 990.03	-26.39
	64QAM	Low	1 929.98	-27.73
		High	1 990.03	-28.83
256QAM	Low	1 929.98	-28.16	
	High	1 990.03	-28.15	
2	QPSK	Low	1 929.98	-24.83
		High	1 990.03	-28.05
	16QAM	Low	1 929.98	-27.71
		High	1 990.03	-28.31
	64QAM	Low	1 929.98	-25.91
		High	1 990.03	-29.28
256QAM	Low	1 929.98	-25.60	
	High	1 990.03	-30.53	
3	QPSK	Low	1 929.98	-27.71
		High	1 990.03	-28.47
	16QAM	Low	1 929.98	-28.51
		High	1 990.03	-28.56
	64QAM	Low	1 929.98	-26.62
		High	1 990.03	-28.95
256QAM	Low	1 929.98	-26.31	
	High	1 990.03	-29.35	

## (4 Port) LTE B2 5 MHz 1 Carrier + LTE B2 5 MHz 1 Carrier + 5G NR n2 20 MHz 1 Carrier [3 Carrier]

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.98	-29.04
		High	1 990.03	-30.70
	16QAM	Low	1 929.98	-29.63
		High	1 990.03	-31.98
	64QAM	Low	1 929.98	-30.62
		High	1 990.03	-30.82
256QAM	Low	1 929.98	-31.03	
	High	1 990.03	-29.64	
1	QPSK	Low	1 929.98	-31.15
		High	1 990.03	-31.45
	16QAM	Low	1 929.98	-28.64
		High	1 990.03	-31.49
	64QAM	Low	1 929.98	-29.51
		High	1 990.03	-31.88
256QAM	Low	1 929.98	-28.84	
	High	1 990.03	-30.30	
2	QPSK	Low	1 929.98	-31.02
		High	1 990.03	-30.80
	16QAM	Low	1 929.98	-30.76
		High	1 990.03	-32.10
	64QAM	Low	1 929.98	-29.04
		High	1 990.03	-31.82
256QAM	Low	1 929.98	-30.56	
	High	1 990.03	-30.89	
3	QPSK	Low	1 929.98	-29.83
		High	1 990.03	-30.93
	16QAM	Low	1 929.98	-30.41
		High	1 990.03	-30.57
	64QAM	Low	1 929.98	-29.77
		High	1 990.03	-32.57
256QAM	Low	1 929.98	-29.26	
	High	1 990.03	-32.37	

(2 Port) B66 DSS 20 MHz 9to1 1 Carrier + LTE B66 10 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier  
 [4 Carrier]

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.98	-27.40
		High	2 180.03	-27.76
	16QAM	Low	2 109.98	-27.93
		High	2 180.03	-27.82
	64QAM	Low	2 109.98	-27.46
		High	2 180.03	-28.85
	256QAM	Low	2 109.98	-26.40
		High	2 180.03	-27.11
1	QPSK	Low	2 109.98	-28.39
		High	2 180.03	-28.26
	16QAM	Low	2 109.98	-29.30
		High	2 180.03	-29.43
	64QAM	Low	2 109.98	-30.04
		High	2 180.03	-28.02
	256QAM	Low	2 109.98	-29.89
		High	2 180.03	-29.84

**(4 Port) B66 DSS 20 MHz 9to1 1 Carrier + LTE B66 10 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier  
[4 Carrier]**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.98	-28.46
		High	2 180.03	-28.92
	16QAM	Low	2 109.98	-28.60
		High	2 180.03	-29.61
	64QAM	Low	2 109.98	-28.56
		High	2 180.03	-29.83
	256QAM	Low	2 109.98	-28.35
		High	2 180.03	-29.38
1	QPSK	Low	2 109.98	-27.88
		High	2 180.03	-29.16
	16QAM	Low	2 109.98	-29.92
		High	2 180.03	-28.74
	64QAM	Low	2 109.98	-30.38
		High	2 180.03	-29.83
	256QAM	Low	2 109.98	-29.63
		High	2 180.03	-29.55
2	QPSK	Low	2 109.98	-30.88
		High	2 180.03	-31.41
	16QAM	Low	2 109.98	-31.14
		High	2 180.03	-30.93
	64QAM	Low	2 109.98	-27.59
		High	2 180.03	-30.87
	256QAM	Low	2 109.98	-27.84
		High	2 180.03	-28.86
3	QPSK	Low	2 109.98	-29.18
		High	2 180.03	-30.46
	16QAM	Low	2 109.98	-28.08
		High	2 180.03	-30.24
	64QAM	Low	2 109.98	-28.71
		High	2 180.03	-30.53
	256QAM	Low	2 109.98	-29.12
		High	2 180.03	-28.52

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

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 110.00	-25.23
		High	2 180.00	-25.88
	16QAM	Low	2 110.00	-27.03
		High	2 180.00	-26.05
	64QAM	Low	2 110.00	-25.88
		High	2 180.00	-25.91
	256QAM	Low	2 110.00	-25.11
		High	2 180.00	-26.03
1	QPSK	Low	2 110.00	-27.27
		High	2 180.00	-24.71
	16QAM	Low	2 110.00	-27.31
		High	2 180.00	-26.60
	64QAM	Low	2 110.00	-28.37
		High	2 180.00	-25.32
	256QAM	Low	2 110.00	-27.08
		High	2 180.00	-25.13

**(2 Port) LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 10 MHz 1 Carrier + 5G NR n66 20 MHz 1 Carrier  
[4 Carrier]**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 110.00	-26.14
		High	2 180.00	-28.61
	16QAM	Low	2 110.00	-27.65
		High	2 180.00	-29.46
	64QAM	Low	2 110.00	-27.46
		High	2 180.00	-27.78
	256QAM	Low	2 110.00	-26.95
		High	2 180.00	-26.14
1	QPSK	Low	2 110.00	-27.94
		High	2 180.00	-28.67
	16QAM	Low	2 110.00	-30.50
		High	2 180.00	-26.79
	64QAM	Low	2 110.00	-29.03
		High	2 180.00	-30.53
	256QAM	Low	2 110.00	-28.72
		High	2 180.00	-24.60

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

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 110.00	-27.15
		High	2 180.00	-26.55
	16QAM	Low	2 110.00	-27.31
		High	2 180.00	-26.68
	64QAM	Low	2 110.00	-27.66
		High	2 180.00	-28.35
	256QAM	Low	2 110.00	-26.65
		High	2 180.00	-25.07
1	QPSK	Low	2 110.00	-29.54
		High	2 180.00	-26.75
	16QAM	Low	2 110.00	-29.69
		High	2 180.00	-28.46
	64QAM	Low	2 110.00	-29.82
		High	2 180.00	-26.39
	256QAM	Low	2 110.00	-27.86
		High	2 180.00	-26.65
2	QPSK	Low	2 110.00	-26.64
		High	2 180.00	-26.23
	16QAM	Low	2 110.00	-25.90
		High	2 180.00	-27.04
	64QAM	Low	2 110.00	-27.10
		High	2 180.00	-26.55
	256QAM	Low	2 110.00	-26.93
		High	2 180.00	-26.49
3	QPSK	Low	2 110.00	-26.90
		High	2 180.00	-25.59
	16QAM	Low	2 110.00	-27.60
		High	2 180.00	-26.94
	64QAM	Low	2 110.00	-26.40
		High	2 180.00	-27.14
	256QAM	Low	2 110.00	-27.41
		High	2 180.00	-25.40

**(4 Port) LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 10 MHz 1 Carrier + 5G NR n66 20 MHz 1 Carrier**
**[4 Carrier]**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.98	-30.43
		High	2 180.03	-30.91
	16QAM	Low	2 109.98	-28.89
		High	2 180.03	-30.26
	64QAM	Low	2 109.98	-29.59
		High	2 180.03	-30.34
	256QAM	Low	2 109.98	-27.84
		High	2 180.03	-29.36
1	QPSK	Low	2 109.98	-30.41
		High	2 180.03	-30.47
	16QAM	Low	2 109.98	-31.61
		High	2 180.03	-30.35
	64QAM	Low	2 109.98	-30.95
		High	2 180.03	-31.25
	256QAM	Low	2 109.98	-32.58
		High	2 180.03	-29.99
2	QPSK	Low	2 109.98	-29.59
		High	2 180.03	-29.01
	16QAM	Low	2 109.98	-30.37
		High	2 180.03	-30.18
	64QAM	Low	2 109.98	-29.49
		High	2 180.03	-30.11
	256QAM	Low	2 109.98	-28.90
		High	2 180.03	-28.95
3	QPSK	Low	2 109.98	-29.89
		High	2 180.03	-29.98
	16QAM	Low	2 109.98	-31.62
		High	2 180.03	-32.25
	64QAM	Low	2 109.98	-30.76
		High	2 180.03	-28.95
	256QAM	Low	2 109.98	-28.03
		High	2 180.03	-29.42

**Tabular Data of Non-Contiguous Out-of-band Unwanted Emissions**
**(2 Port) B2 DSS 10 MHz 9to1 1 Carrier + LTE B2 5 MHz 1 Carrier [2 Carrier]**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.98	-23.38
		High	1 990.05	-26.46
	16QAM	Low	1 929.98	-25.98
		High	1 990.05	-25.59
	64QAM	Low	1 929.98	-23.28
		High	1 990.05	-25.61
	256QAM	Low	1 929.98	-25.96
		High	1 990.05	-27.37
1	QPSK	Low	1 929.98	-24.71
		High	1 990.05	-27.37
	16QAM	Low	1 929.98	-25.36
		High	1 990.05	-27.24
	64QAM	Low	1 929.98	-25.26
		High	1 990.05	-25.55
	256QAM	Low	1 929.98	-24.93
		High	1 990.05	-26.23

**(4 Port) B2 DSS 10 MHz 9to1 1 Carrier + LTE B2 5 MHz 1 Carrier [2 Carrier]**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.98	-24.78
		High	1 990.05	-28.06
	16QAM	Low	1 929.98	-27.10
		High	1 990.05	-29.99
	64QAM	Low	1 929.98	-26.15
		High	1 990.05	-28.31
	256QAM	Low	1 929.98	-25.61
		High	1 990.05	-29.86
1	QPSK	Low	1 929.98	-26.98
		High	1 990.05	-29.99
	16QAM	Low	1 929.98	-25.68
		High	1 990.05	-27.38
	64QAM	Low	1 929.98	-26.21
		High	1 990.05	-28.12
	256QAM	Low	1 929.98	-25.56
		High	1 990.05	-28.46
2	QPSK	Low	1 929.98	-25.90
		High	1 990.05	-27.13
	16QAM	Low	1 929.98	-26.36
		High	1 990.05	-28.64
	64QAM	Low	1 929.98	-25.66
		High	1 990.05	-27.10
	256QAM	Low	1 929.98	-25.08
		High	1 990.05	-29.06
3	QPSK	Low	1 929.98	-25.14
		High	1 990.05	-28.78
	16QAM	Low	1 929.98	-29.28
		High	1 990.05	-28.59
	64QAM	Low	1 929.98	-26.55
		High	1 990.05	-29.60
	256QAM	Low	1 929.98	-25.09
		High	1 990.05	-26.76

**(2 Port) LTE B2 5 MHz 1 Carrier + 5G NR n2 5 MHz 1 Carrier [2 Carrier]**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.98	-22.79
		High	1 990.03	-25.56
	16QAM	Low	1 929.98	-22.52
		High	1 990.03	-23.73
	64QAM	Low	1 929.98	-22.94
		High	1 990.03	-25.70
	256QAM	Low	1 929.98	-23.74
		High	1 990.03	-26.13
1	QPSK	Low	1 929.98	-23.14
		High	1 990.03	-25.89
	16QAM	Low	1 929.98	-23.33
		High	1 990.03	-24.54
	64QAM	Low	1 929.98	-22.48
		High	1 990.03	-25.70
	256QAM	Low	1 929.98	-24.52
		High	1 990.03	-24.77

## (2 Port) LTE B2 10 MHz 1 Carrier + 5G NR n2 20 MHz 1 Carrier [2 Carrier]

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.95	-27.50
		High	1 990.10	-21.11
	16QAM	Low	1 929.95	-28.17
		High	1 990.10	-21.36
	64QAM	Low	1 929.95	-27.37
		High	1 990.10	-24.74
	256QAM	Low	1 929.95	-28.98
		High	1 990.10	-19.34
1	QPSK	Low	1 929.95	-25.81
		High	1 990.10	-22.35
	16QAM	Low	1 929.95	-26.40
		High	1 990.10	-18.93
	64QAM	Low	1 929.95	-27.13
		High	1 990.10	-21.16
	256QAM	Low	1 929.95	-27.97
		High	1 990.10	-22.84

**(4 Port) LTE B2 5 MHz 1 Carrier + 5G NR n2 5 MHz 1 Carrier [2 Carrier]**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.98	-26.59
		High	1 990.03	-27.78
	16QAM	Low	1 929.98	-26.14
		High	1 990.03	-23.36
	64QAM	Low	1 929.98	-24.23
		High	1 990.03	-25.99
	256QAM	Low	1 929.98	-23.81
		High	1 990.03	-27.79
1	QPSK	Low	1 929.98	-25.37
		High	1 990.03	-27.67
	16QAM	Low	1 929.98	-25.80
		High	1 990.03	-25.44
	64QAM	Low	1 929.98	-24.69
		High	1 990.03	-26.12
	256QAM	Low	1 929.98	-26.16
		High	1 990.03	-27.86
2	QPSK	Low	1 929.98	-23.42
		High	1 990.03	-26.96
	16QAM	Low	1 929.98	-29.06
		High	1 990.03	-27.05
	64QAM	Low	1 929.98	-23.75
		High	1 990.03	-26.66
	256QAM	Low	1 929.98	-25.06
		High	1 990.03	-25.71
3	QPSK	Low	1 929.98	-24.10
		High	1 990.03	-28.66
	16QAM	Low	1 929.98	-25.46
		High	1 990.03	-26.20
	64QAM	Low	1 929.98	-23.70
		High	1 990.03	-26.86
	256QAM	Low	1 929.98	-26.98
		High	1 990.03	-27.08

## (4 Port) LTE B2 10 MHz 1 Carrier + 5G NR n2 20 MHz 1 Carrier [2 Carrier]

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.95	-28.47
		High	1 990.10	-22.25
	16QAM	Low	1 929.95	-29.71
		High	1 990.10	-23.09
	64QAM	Low	1 929.95	-29.75
		High	1 990.10	-24.94
256QAM	Low	1 929.95	-29.64	
	High	1 990.10	-21.87	
1	QPSK	Low	1 929.95	-29.34
		High	1 990.10	-24.82
	16QAM	Low	1 929.95	-30.04
		High	1 990.10	-23.34
	64QAM	Low	1 929.95	-31.33
		High	1 990.10	-24.42
256QAM	Low	1 929.95	-29.86	
	High	1 990.10	-24.19	
2	QPSK	Low	1 929.95	-29.61
		High	1 990.10	-23.17
	16QAM	Low	1 929.95	-28.55
		High	1 990.10	-20.88
	64QAM	Low	1 929.95	-29.07
		High	1 990.10	-23.68
256QAM	Low	1 929.95	-28.89	
	High	1 990.10	-26.24	
3	QPSK	Low	1 929.95	-29.81
		High	1 990.10	-24.57
	16QAM	Low	1 929.95	-28.60
		High	1 990.10	-21.41
	64QAM	Low	1 929.95	-28.15
		High	1 990.10	-26.30
256QAM	Low	1 929.95	-29.42	
	High	1 990.10	-24.19	

**(2 Port) B66 DSS 10 MHz 9to1 1 Carrier + LTE B66 5 MHz 1 Carrier [2 Carrier]**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.95	-24.17
		High	2 180.03	-23.46
	16QAM	Low	2 109.95	-25.84
		High	2 180.03	-22.79
	64QAM	Low	2 109.95	-25.66
		High	2 180.03	-22.62
	256QAM	Low	2 109.95	-24.62
		High	2 180.03	-24.76
1	QPSK	Low	2 109.95	-25.22
		High	2 180.03	-23.64
	16QAM	Low	2 109.95	-27.01
		High	2 180.03	-24.26
	64QAM	Low	2 109.95	-25.69
		High	2 180.03	-24.41
	256QAM	Low	2 109.95	-24.89
		High	2 180.03	-24.44

**(4 Port) B66 DSS 10 MHz 9to1 1 Carrier + LTE B66 5 MHz 1 Carrier [2 Carrier]**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.95	-22.65
		High	2 180.03	-23.43
	16QAM	Low	2 109.95	-24.37
		High	2 180.03	-24.23
	64QAM	Low	2 109.95	-27.16
		High	2 180.03	-24.35
256QAM	Low	2 109.95	-24.53	
	High	2 180.03	-24.20	
1	QPSK	Low	2 109.95	-23.36
		High	2 180.03	-23.38
	16QAM	Low	2 109.95	-27.70
		High	2 180.03	-26.26
	64QAM	Low	2 109.95	-26.59
		High	2 180.03	-25.69
256QAM	Low	2 109.95	-29.01	
	High	2 180.03	-24.98	
2	QPSK	Low	2 109.95	-25.43
		High	2 180.03	-25.27
	16QAM	Low	2 109.95	-24.02
		High	2 180.03	-24.69
	64QAM	Low	2 109.95	-26.03
		High	2 180.03	-24.32
256QAM	Low	2 109.95	-27.53	
	High	2 180.03	-25.36	
3	QPSK	Low	2 109.95	-25.61
		High	2 180.03	-26.22
	16QAM	Low	2 109.95	-28.10
		High	2 180.03	-25.42
	64QAM	Low	2 109.95	-26.50
		High	2 180.03	-25.22
256QAM	Low	2 109.95	-25.97	
	High	2 180.03	-25.22	

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

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 110.00	-25.66
		High	2 180.00	-22.34
	16QAM	Low	2 110.00	-22.94
		High	2 180.00	-21.96
	64QAM	Low	2 110.00	-23.12
		High	2 180.00	-23.53
	256QAM	Low	2 110.00	-24.54
		High	2 180.00	-22.39
1	QPSK	Low	2 110.00	-23.70
		High	2 180.00	-23.92
	16QAM	Low	2 110.00	-26.26
		High	2 180.00	-22.49
	64QAM	Low	2 110.00	-24.46
		High	2 180.00	-23.34
	256QAM	Low	2 110.00	-25.22
		High	2 180.00	-22.11

## (2 Port) LTE B66 20 MHz 1 Carrier + 5G NR n66 20 MHz 1 Carrier [2 Carrier]

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 110.00	-23.02
		High	2 180.00	-18.61
	16QAM	Low	2 110.00	-22.05
		High	2 180.00	-19.73
	64QAM	Low	2 110.00	-23.43
		High	2 180.00	-19.00
	256QAM	Low	2 110.00	-20.64
		High	2 180.00	-19.82
1	QPSK	Low	2 110.00	-22.37
		High	2 180.00	-20.52
	16QAM	Low	2 110.00	-24.24
		High	2 180.00	-20.65
	64QAM	Low	2 110.00	-25.00
		High	2 180.00	-18.65
	256QAM	Low	2 110.00	-22.35
		High	2 180.00	-23.18

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

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 110.00	-27.85
		High	2 180.00	-21.73
	16QAM	Low	2 110.00	-27.49
		High	2 180.00	-25.93
	64QAM	Low	2 110.00	-26.54
		High	2 180.00	-23.86
256QAM	Low	2 110.00	-25.07	
	High	2 180.00	-24.39	
1	QPSK	Low	2 110.00	-27.92
		High	2 180.00	-22.92
	16QAM	Low	2 110.00	-27.75
		High	2 180.00	-26.02
	64QAM	Low	2 110.00	-30.27
		High	2 180.00	-25.02
256QAM	Low	2 110.00	-29.44	
	High	2 180.00	-23.78	
2	QPSK	Low	2 110.00	-26.06
		High	2 180.00	-24.17
	16QAM	Low	2 110.00	-27.59
		High	2 180.00	-25.56
	64QAM	Low	2 110.00	-27.23
		High	2 180.00	-22.34
256QAM	Low	2 110.00	-26.66	
	High	2 180.00	-21.46	
3	QPSK	Low	2 110.00	-27.47
		High	2 180.00	-23.07
	16QAM	Low	2 110.00	-27.09
		High	2 180.00	-24.08
	64QAM	Low	2 110.00	-27.36
		High	2 180.00	-23.64
256QAM	Low	2 110.00	-27.02	
	High	2 180.00	-22.52	

## (4 Port) LTE B66 20 MHz 1 Carrier + 5G NR n66 20 MHz 1 Carrier [2 Carrier]

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.98	-24.29
		High	2 180.03	-22.16
	16QAM	Low	2 109.98	-26.70
		High	2 180.03	-21.90
	64QAM	Low	2 109.98	-23.40
		High	2 180.03	-21.26
	256QAM	Low	2 109.98	-24.29
		High	2 180.03	-23.27
1	QPSK	Low	2 109.98	-25.95
		High	2 180.03	-21.25
	16QAM	Low	2 109.98	-25.11
		High	2 180.03	-22.71
	64QAM	Low	2 109.98	-28.34
		High	2 180.03	-20.82
	256QAM	Low	2 109.98	-24.04
		High	2 180.03	-20.91
2	QPSK	Low	2 109.98	-24.17
		High	2 180.03	-23.52
	16QAM	Low	2 109.98	-26.28
		High	2 180.03	-21.60
	64QAM	Low	2 109.98	-24.33
		High	2 180.03	-21.69
	256QAM	Low	2 109.98	-26.13
		High	2 180.03	-22.03
3	QPSK	Low	2 109.98	-23.01
		High	2 180.03	-23.06
	16QAM	Low	2 109.98	-28.71
		High	2 180.03	-23.04
	64QAM	Low	2 109.98	-24.10
		High	2 180.03	-21.17
	256QAM	Low	2 109.98	-24.58
		High	2 180.03	-22.40

**(2 Port) B2 DSS 20 MHz 9to1 1 Carrier + LTE B2 5 MHz 1 Carrier + LTE B2 5 MHz 1 Carrier [3 Carrier] (1C+2C)**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 990.05	-19.30
		High	1 929.90	-32.65
	16QAM	Low	1 990.05	-20.82
		High	1 929.90	-34.14
	64QAM	Low	1 990.05	-23.75
		High	1 929.90	-31.56
	256QAM	Low	1 990.05	-25.24
		High	1 929.90	-32.05
1	QPSK	Low	1 990.05	-23.40
		High	1 929.90	-32.04
	16QAM	Low	1 990.05	-23.50
		High	1 929.90	-32.54
	64QAM	Low	1 990.05	-23.86
		High	1 929.90	-30.58
	256QAM	Low	1 990.05	-19.21
		High	1 929.90	-30.46

**(2 Port) B2 DSS 20 MHz 9to1 1 Carrier + LTE B2 5 MHz 1 Carrier + LTE B2 5 MHz 1 Carrier [3 Carrier] (2C+1C)**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.95	-32.39
		High	1 990.10	-24.52
	16QAM	Low	1 929.95	-33.84
		High	1 990.10	-22.68
	64QAM	Low	1 929.95	-33.62
		High	1 990.10	-25.39
	256QAM	Low	1 929.95	-33.19
		High	1 990.10	-27.18
1	QPSK	Low	1 929.95	-31.72
		High	1 990.10	-25.65
	16QAM	Low	1 929.95	-32.97
		High	1 990.10	-24.64
	64QAM	Low	1 929.95	-33.65
		High	1 990.10	-26.13
	256QAM	Low	1 929.95	-34.20
		High	1 990.10	-25.49

**(4 Port) B2 DSS 20 MHz 9to1 1 Carrier + LTE B2 5 MHz 1 Carrier + LTE B2 5 MHz 1 Carrier [3 Carrier] (1C+2C)**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.90	-23.13
		High	1 990.05	-34.04
	16QAM	Low	1 929.90	-23.04
		High	1 990.05	-33.98
	64QAM	Low	1 929.90	-24.95
		High	1 990.05	-34.73
256QAM	Low	1 929.90	-24.48	
	High	1 990.05	-33.59	
1	QPSK	Low	1 929.90	-23.21
		High	1 990.05	-31.51
	16QAM	Low	1 929.90	-24.90
		High	1 990.05	-33.34
	64QAM	Low	1 929.90	-25.39
		High	1 990.05	-33.28
256QAM	Low	1 929.90	-27.94	
	High	1 990.05	-33.20	
2	QPSK	Low	1 929.90	-23.05
		High	1 990.05	-31.87
	16QAM	Low	1 929.90	-21.01
		High	1 990.05	-31.75
	64QAM	Low	1 929.90	-26.84
		High	1 990.05	-32.85
256QAM	Low	1 929.90	-25.15	
	High	1 990.05	-33.45	
3	QPSK	Low	1 929.90	-23.54
		High	1 990.05	-32.48
	16QAM	Low	1 929.90	-24.70
		High	1 990.05	-33.33
	64QAM	Low	1 929.90	-24.45
		High	1 990.05	-32.72
256QAM	Low	1 929.90	-22.32	
	High	1 990.05	-33.44	

**(4 Port) B2 DSS 20 MHz 9to1 1 Carrier + LTE B2 5 MHz 1 Carrier + LTE B2 5 MHz 1 Carrier [3 Carrier] (2C+1C)**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.95	-35.20
		High	1 990.10	-26.67
	16QAM	Low	1 929.95	-37.23
		High	1 990.10	-27.43
	64QAM	Low	1 929.95	-36.15
		High	1 990.10	-24.49
256QAM	Low	1 929.95	-34.12	
	High	1 990.10	-26.44	
1	QPSK	Low	1 929.95	-35.95
		High	1 990.10	-24.57
	16QAM	Low	1 929.95	-33.83
		High	1 990.10	-23.76
	64QAM	Low	1 929.95	-33.42
		High	1 990.10	-27.57
256QAM	Low	1 929.95	-34.26	
	High	1 990.10	-24.28	
2	QPSK	Low	1 929.95	-32.21
		High	1 990.10	-25.53
	16QAM	Low	1 929.95	-33.84
		High	1 990.10	-22.84
	64QAM	Low	1 929.95	-33.34
		High	1 990.10	-25.61
256QAM	Low	1 929.95	-32.84	
	High	1 990.10	-27.19	
3	QPSK	Low	1 929.95	-34.35
		High	1 990.10	-24.30
	16QAM	Low	1 929.95	-32.97
		High	1 990.10	-23.94
	64QAM	Low	1 929.95	-34.78
		High	1 990.10	-25.34
256QAM	Low	1 929.95	-34.12	
	High	1 990.10	-25.61	

**(2 Port) LTE B2 5 MHz 1 Carrier + LTE B2 5 MHz 1 Carrier + 5G NR n2 5 MHz 1 Carrier [3 Carrier] (1C+2C)**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.98	-25.76
		High	1 990.03	-26.10
	16QAM	Low	1 929.98	-26.40
		High	1 990.03	-26.21
	64QAM	Low	1 929.98	-25.45
		High	1 990.03	-27.72
	256QAM	Low	1 929.98	-23.70
		High	1 990.03	-25.79
1	QPSK	Low	1 929.98	-24.28
		High	1 990.03	-26.30
	16QAM	Low	1 929.98	-26.25
		High	1 990.03	-26.11
	64QAM	Low	1 929.98	-25.79
		High	1 990.03	-26.14
	256QAM	Low	1 929.98	-25.19
		High	1 990.03	-26.34

**(2 Port) LTE B2 5 MHz 1 Carrier + LTE B2 5 MHz 1 Carrier + 5G NR n2 5 MHz 1 Carrier [3 Carrier] (2C+1C)**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.98	-24.51
		High	1 990.03	-27.12
	16QAM	Low	1 929.98	-26.46
		High	1 990.03	-25.84
	64QAM	Low	1 929.98	-24.60
		High	1 990.03	-27.14
	256QAM	Low	1 929.98	-23.91
		High	1 990.03	-25.94
1	QPSK	Low	1 929.98	-24.41
		High	1 990.03	-27.27
	16QAM	Low	1 929.98	-25.28
		High	1 990.03	-26.00
	64QAM	Low	1 929.98	-25.26
		High	1 990.03	-27.12
	256QAM	Low	1 929.98	-24.43
		High	1 990.03	-26.54

## (2 Port) LTE B2 5 MHz 1 Carrier + LTE B2 5 MHz 1 Carrier + 5G NR n2 20 MHz 1 Carrier [3 Carrier] (1C+2C)

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.98	-27.99
		High	1 990.03	-28.58
	16QAM	Low	1 929.98	-27.75
		High	1 990.03	-31.42
	64QAM	Low	1 929.98	-26.62
		High	1 990.03	-29.32
	256QAM	Low	1 929.98	-28.71
		High	1 990.03	-29.56
1	QPSK	Low	1 929.98	-28.73
		High	1 990.03	-29.02
	16QAM	Low	1 929.98	-28.25
		High	1 990.03	-30.02
	64QAM	Low	1 929.98	-27.98
		High	1 990.03	-29.88
	256QAM	Low	1 929.98	-27.25
		High	1 990.03	-30.32

## (2 Port) LTE B2 5 MHz 1 Carrier + LTE B2 5 MHz 1 Carrier + 5G NR n2 20 MHz 1 Carrier [3 Carrier] (2C+1C)

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.98	-26.62
		High	1 990.03	-30.01
	16QAM	Low	1 929.98	-29.78
		High	1 990.03	-30.23
	64QAM	Low	1 929.98	-26.84
		High	1 990.03	-29.07
	256QAM	Low	1 929.98	-26.59
		High	1 990.03	-28.44
1	QPSK	Low	1 929.98	-28.43
		High	1 990.03	-28.95
	16QAM	Low	1 929.98	-26.44
		High	1 990.03	-29.16
	64QAM	Low	1 929.98	-27.58
		High	1 990.03	-30.34
	256QAM	Low	1 929.98	-27.08
		High	1 990.03	-30.00

**(4 Port) LTE B2 5 MHz 1 Carrier + LTE B2 5 MHz 1 Carrier + 5G NR n2 5 MHz 1 Carrier [3 Carrier] (1C+2C)**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.98	-26.82
		High	1 990.03	-29.20
	16QAM	Low	1 929.98	-29.33
		High	1 990.03	-27.17
	64QAM	Low	1 929.98	-25.78
		High	1 990.03	-27.70
	256QAM	Low	1 929.98	-26.98
		High	1 990.03	-28.26
1	QPSK	Low	1 929.98	-26.41
		High	1 990.03	-29.41
	16QAM	Low	1 929.98	-26.00
		High	1 990.03	-27.71
	64QAM	Low	1 929.98	-26.46
		High	1 990.03	-28.46
	256QAM	Low	1 929.98	-25.01
		High	1 990.03	-29.20
2	QPSK	Low	1 929.98	-25.85
		High	1 990.03	-27.95
	16QAM	Low	1 929.98	-28.85
		High	1 990.03	-26.98
	64QAM	Low	1 929.98	-25.94
		High	1 990.03	-28.39
	256QAM	Low	1 929.98	-26.43
		High	1 990.03	-28.70
3	QPSK	Low	1 929.98	-27.94
		High	1 990.03	-30.61
	16QAM	Low	1 929.98	-27.74
		High	1 990.03	-29.32
	64QAM	Low	1 929.98	-25.79
		High	1 990.03	-29.43
	256QAM	Low	1 929.98	-26.75
		High	1 990.03	-28.52

**(4 Port) LTE B2 5 MHz 1 Carrier + LTE B2 5 MHz 1 Carrier + 5G NR n2 5 MHz 1 Carrier [3 Carrier] (2C+1C)**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.98	-26.56
		High	1 990.03	-29.47
	16QAM	Low	1 929.98	-27.25
		High	1 990.03	-28.28
	64QAM	Low	1 929.98	-26.86
		High	1 990.03	-29.48
256QAM	Low	1 929.98	-27.73	
	High	1 990.03	-27.66	
1	QPSK	Low	1 929.98	-29.09
		High	1 990.03	-29.20
	16QAM	Low	1 929.98	-28.43
		High	1 990.03	-27.70
	64QAM	Low	1 929.98	-27.96
		High	1 990.03	-30.69
256QAM	Low	1 929.98	-26.73	
	High	1 990.03	-29.67	
2	QPSK	Low	1 929.98	-24.25
		High	1 990.03	-29.07
	16QAM	Low	1 929.98	-25.23
		High	1 990.03	-26.48
	64QAM	Low	1 929.98	-25.59
		High	1 990.03	-28.28
256QAM	Low	1 929.98	-26.22	
	High	1 990.03	-28.73	
3	QPSK	Low	1 929.98	-25.32
		High	1 990.03	-28.16
	16QAM	Low	1 929.98	-28.18
		High	1 990.03	-26.20
	64QAM	Low	1 929.98	-27.04
		High	1 990.03	-28.09
256QAM	Low	1 929.98	-25.80	
	High	1 990.03	-28.36	

**(4 Port) LTE B2 5 MHz 1 Carrier + LTE B2 5 MHz 1 Carrier + 5G NR n2 20 MHz 1 Carrier [3 Carrier] (1C+2C)**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.98	-29.39
		High	1 990.03	-30.37
	16QAM	Low	1 929.98	-30.11
		High	1 990.03	-30.65
	64QAM	Low	1 929.98	-30.20
		High	1 990.03	-31.99
	256QAM	Low	1 929.98	-29.37
		High	1 990.03	-30.24
1	QPSK	Low	1 929.98	-28.58
		High	1 990.03	-30.09
	16QAM	Low	1 929.98	-30.92
		High	1 990.03	-31.00
	64QAM	Low	1 929.98	-31.13
		High	1 990.03	-29.71
	256QAM	Low	1 929.98	-29.56
		High	1 990.03	-28.89
2	QPSK	Low	1 929.98	-28.11
		High	1 990.03	-30.31
	16QAM	Low	1 929.98	-29.81
		High	1 990.03	-31.97
	64QAM	Low	1 929.98	-30.11
		High	1 990.03	-29.62
	256QAM	Low	1 929.98	-29.04
		High	1 990.03	-30.57
3	QPSK	Low	1 929.98	-28.99
		High	1 990.03	-29.87
	16QAM	Low	1 929.98	-31.13
		High	1 990.03	-29.77
	64QAM	Low	1 929.98	-30.38
		High	1 990.03	-30.59
	256QAM	Low	1 929.98	-29.12
		High	1 990.03	-30.46

## (4 Port) LTE B2 5 MHz 1 Carrier + LTE B2 5 MHz 1 Carrier + 5G NR n2 20 MHz 1 Carrier [3 Carrier] (2C+1C)

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	1 929.98	-29.74
		High	1 990.03	-31.04
	16QAM	Low	1 929.98	-32.10
		High	1 990.03	-32.52
	64QAM	Low	1 929.98	-30.43
		High	1 990.03	-29.16
256QAM	Low	1 929.98	-29.82	
	High	1 990.03	-30.51	
1	QPSK	Low	1 929.98	-30.63
		High	1 990.03	-29.06
	16QAM	Low	1 929.98	-31.72
		High	1 990.03	-31.61
	64QAM	Low	1 929.98	-29.20
		High	1 990.03	-30.79
256QAM	Low	1 929.98	-29.11	
	High	1 990.03	-30.29	
2	QPSK	Low	1 929.98	-28.76
		High	1 990.03	-31.18
	16QAM	Low	1 929.98	-29.14
		High	1 990.03	-30.01
	64QAM	Low	1 929.98	-27.55
		High	1 990.03	-30.44
256QAM	Low	1 929.98	-28.51	
	High	1 990.03	-29.82	
3	QPSK	Low	1 929.98	-27.57
		High	1 990.03	-30.10
	16QAM	Low	1 929.98	-28.61
		High	1 990.03	-30.71
	64QAM	Low	1 929.98	-28.04
		High	1 990.03	-31.85
256QAM	Low	1 929.98	-27.45	
	High	1 990.03	-30.30	

(2 Port) B66 DSS 20 MHz 9to1 1 Carrier + LTE B66 10 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier  
 [4 Carrier] (1C+3C)

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.98	-30.74
		High	2 180.03	-26.06
	16QAM	Low	2 109.98	-32.06
		High	2 180.03	-27.40
	64QAM	Low	2 109.98	-30.16
		High	2 180.03	-26.91
	256QAM	Low	2 109.98	-28.83
		High	2 180.03	-27.57
1	QPSK	Low	2 109.98	-30.23
		High	2 180.03	-28.32
	16QAM	Low	2 109.98	-31.51
		High	2 180.03	-27.67
	64QAM	Low	2 109.98	-28.75
		High	2 180.03	-26.59
	256QAM	Low	2 109.98	-30.77
		High	2 180.03	-28.02

(2 Port) B66 DSS 20 MHz 9to1 1 Carrier + LTE B66 10 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier  
 [4 Carrier] (3C+1C)

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.98	-29.52
		High	2 180.03	-26.73
	16QAM	Low	2 109.98	-29.50
		High	2 180.03	-28.53
	64QAM	Low	2 109.98	-28.38
		High	2 180.03	-26.42
	256QAM	Low	2 109.98	-28.67
		High	2 180.03	-25.82
1	QPSK	Low	2 109.98	-28.48
		High	2 180.03	-27.65
	16QAM	Low	2 109.98	-28.33
		High	2 180.03	-25.88
	64QAM	Low	2 109.98	-28.43
		High	2 180.03	-27.40
	256QAM	Low	2 109.98	-29.26
		High	2 180.03	-28.05

**(4 Port) B66 DSS 20 MHz 9to1 1 Carrier + LTE B66 10 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier [4 Carrier] (1C+3C)**

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 180.00	-31.14
		High	2 180.00	-30.09
	16QAM	Low	2 180.00	-32.16
		High	2 180.00	-30.50
	64QAM	Low	2 109.98	-29.17
		High	2 180.03	-27.85
	256QAM	Low	2 109.95	-30.98
		High	2 180.03	-28.43
1	QPSK	Low	2 180.00	-33.35
		High	2 180.00	-31.12
	16QAM	Low	2 180.00	-34.22
		High	2 180.00	-31.43
	64QAM	Low	2 109.98	-29.86
		High	2 180.03	-29.05
	256QAM	Low	2 109.98	-31.05
		High	2 180.03	-28.10
2	QPSK	Low	2 180.00	-32.07
		High	2 180.00	-31.09
	16QAM	Low	2 180.00	-33.30
		High	2 180.00	-31.33
	64QAM	Low	2 109.98	-27.90
		High	2 180.03	-28.66
	256QAM	Low	2 109.98	-30.13
		High	2 180.03	-28.66
3	QPSK	Low	2 180.00	-32.32
		High	2 180.00	-31.49
	16QAM	Low	2 180.00	-33.64
		High	2 180.00	-31.59
	64QAM	Low	2 109.98	-28.41
		High	2 180.03	-27.82
	256QAM	Low	2 109.98	-29.76
		High	2 180.03	-27.60

(4 Port) B66 DSS 20 MHz 9to1 1 Carrier + LTE B66 10 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier  
 [4 Carrier] (3C+1C)

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.98	-27.88
		High	2 180.03	-27.23
	16QAM	Low	2 109.98	-29.41
		High	2 180.03	-28.72
	64QAM	Low	2 109.98	-26.78
		High	2 180.03	-26.23
	256QAM	Low	2 109.98	-28.61
		High	2 180.03	-27.47
1	QPSK	Low	2 109.98	-29.69
		High	2 180.03	-27.63
	16QAM	Low	2 109.98	-30.78
		High	2 180.03	-29.71
	64QAM	Low	2 109.98	-30.88
		High	2 180.03	-28.99
	256QAM	Low	2 109.98	-32.01
		High	2 180.03	-28.53
2	QPSK	Low	2 109.98	-28.61
		High	2 180.03	-27.15
	16QAM	Low	2 109.98	-30.60
		High	2 180.03	-29.29
	64QAM	Low	2 109.98	-27.68
		High	2 180.03	-28.80
	256QAM	Low	2 109.98	-27.47
		High	2 180.03	-27.77
3	QPSK	Low	2 109.98	-28.84
		High	2 180.03	-28.46
	16QAM	Low	2 109.98	-29.18
		High	2 180.03	-29.75
	64QAM	Low	2 109.98	-29.63
		High	2 180.03	-29.47
	256QAM	Low	2 109.98	-29.66
		High	2 180.03	-29.29

(2 Port) LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier  
 [4 Carrier] (1C+3C)

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 110.00	-26.13
		High	2 180.00	-26.07
	16QAM	Low	2 110.00	-27.68
		High	2 180.00	-25.29
	64QAM	Low	2 110.00	-24.53
		High	2 180.00	-25.78
	256QAM	Low	2 110.00	-24.61
		High	2 180.00	-26.15
1	QPSK	Low	2 110.00	-26.54
		High	2 180.00	-26.11
	16QAM	Low	2 110.00	-27.34
		High	2 180.00	-26.61
	64QAM	Low	2 110.00	-26.81
		High	2 180.00	-24.08
	256QAM	Low	2 110.00	-27.55
		High	2 180.00	-24.62

(2 Port) LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier  
 [4 Carrier] (3C+1C)

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 110.00	-25.18
		High	2 180.00	-24.85
	16QAM	Low	2 110.00	-27.04
		High	2 180.00	-26.27
	64QAM	Low	2 110.00	-27.57
		High	2 180.00	-25.10
	256QAM	Low	2 110.00	-25.58
		High	2 180.00	-24.87
1	QPSK	Low	2 110.00	-27.06
		High	2 180.00	-24.42
	16QAM	Low	2 110.00	-29.26
		High	2 180.00	-25.66
	64QAM	Low	2 110.00	-27.17
		High	2 180.00	-24.88
	256QAM	Low	2 110.00	-26.52
		High	2 180.00	-26.94

(2 Port) LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 10 MHz 1 Carrier + 5G NR n66 20 MHz 1 Carrier  
 [4 Carrier] (1C+3C)

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 110.00	-27.65
		High	2 180.00	-26.23
	16QAM	Low	2 110.00	-28.53
		High	2 180.00	-27.76
	64QAM	Low	2 110.00	-28.72
		High	2 180.00	-26.87
	256QAM	Low	2 110.00	-30.06
		High	2 180.00	-27.43
1	QPSK	Low	2 110.00	-30.96
		High	2 180.00	-25.47
	16QAM	Low	2 110.00	-32.40
		High	2 180.00	-28.17
	64QAM	Low	2 110.00	-30.36
		High	2 180.00	-27.10
	256QAM	Low	2 110.00	-30.21
		High	2 180.00	-26.97

(2 Port) LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 10 MHz 1 Carrier + 5G NR n66 20 MHz 1 Carrier  
 [4 Carrier] (3C+1C)

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 110.00	-27.34
		High	2 180.00	-26.54
	16QAM	Low	2 110.00	-27.21
		High	2 180.00	-27.99
	64QAM	Low	2 110.00	-27.37
		High	2 180.00	-26.92
	256QAM	Low	2 110.00	-26.83
		High	2 180.00	-28.59
1	QPSK	Low	2 110.00	-27.58
		High	2 180.00	-29.02
	16QAM	Low	2 110.00	-28.25
		High	2 180.00	-27.34
	64QAM	Low	2 110.00	-29.23
		High	2 180.00	-26.59
	256QAM	Low	2 110.00	-29.69
		High	2 180.00	-25.88

(4 Port) LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier  
 [4 Carrier] (1C+3C)

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 110.00	-29.00
		High	2 180.00	-28.57
	16QAM	Low	2 110.00	-28.15
		High	2 180.00	-26.60
	64QAM	Low	2 110.00	-28.99
		High	2 180.00	-26.28
	256QAM	Low	2 110.00	-27.30
		High	2 180.00	-25.81
1	QPSK	Low	2 110.00	-29.79
		High	2 180.00	-25.07
	16QAM	Low	2 110.00	-28.55
		High	2 180.00	-26.58
	64QAM	Low	2 110.00	-29.43
		High	2 180.00	-25.79
	256QAM	Low	2 110.00	-28.67
		High	2 180.00	-25.80
2	QPSK	Low	2 110.00	-26.03
		High	2 180.00	-26.05
	16QAM	Low	2 110.00	-27.15
		High	2 180.00	-26.98
	64QAM	Low	2 110.00	-26.93
		High	2 180.00	-26.24
	256QAM	Low	2 110.00	-27.45
		High	2 180.00	-26.40
3	QPSK	Low	2 110.00	-27.96
		High	2 180.00	-26.22
	16QAM	Low	2 110.00	-25.82
		High	2 180.00	-25.92
	64QAM	Low	2 110.00	-25.79
		High	2 180.00	-26.84
	256QAM	Low	2 110.00	-25.58
		High	2 180.00	-28.15

(4 Port) LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + 5G NR n66 5 MHz 1 Carrier  
 [4 Carrier] (3C+1C)

Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 110.00	-26.91
		High	2 180.00	-27.27
	16QAM	Low	2 110.00	-27.56
		High	2 180.00	-27.30
	64QAM	Low	2 110.00	-25.76
		High	2 180.00	-25.42
	256QAM	Low	2 110.00	-24.92
		High	2 180.00	-26.28
1	QPSK	Low	2 110.00	-28.65
		High	2 180.00	-26.31
	16QAM	Low	2 110.00	-28.24
		High	2 180.00	-25.35
	64QAM	Low	2 110.00	-29.89
		High	2 180.00	-25.68
	256QAM	Low	2 110.00	-27.56
		High	2 180.00	-26.29
2	QPSK	Low	2 110.00	-25.87
		High	2 180.00	-27.32
	16QAM	Low	2 110.00	-25.42
		High	2 180.00	-25.75
	64QAM	Low	2 110.00	-26.80
		High	2 180.00	-25.41
	256QAM	Low	2 110.00	-27.52
		High	2 180.00	-24.64
3	QPSK	Low	2 110.00	-27.71
		High	2 180.00	-27.23
	16QAM	Low	2 110.00	-27.74
		High	2 180.00	-25.68
	64QAM	Low	2 110.00	-28.13
		High	2 180.00	-25.04
	256QAM	Low	2 110.00	-25.91
		High	2 180.00	-27.94

**(4 Port) LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 10 MHz 1 Carrier + 5G NR n66 20 MHz 1 Carrier  
 [4 Carrier] (1C+3C)**

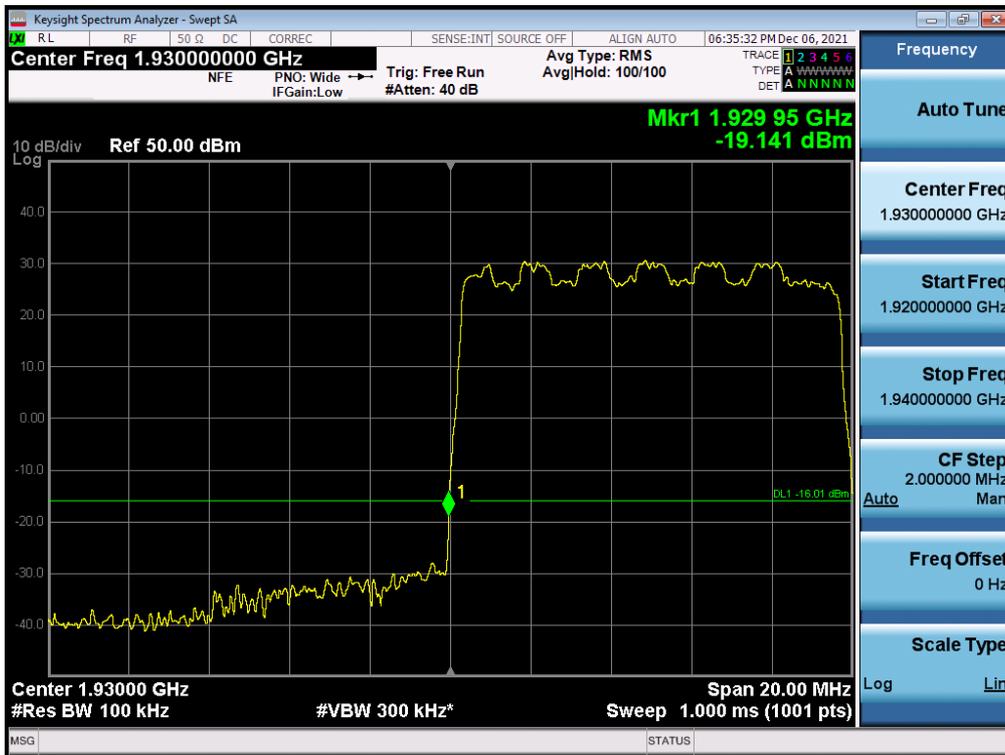
Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.98	-30.46
		High	2 180.03	-29.38
	16QAM	Low	2 109.98	-30.34
		High	2 180.03	-30.13
	64QAM	Low	2 109.98	-30.32
		High	2 180.03	-29.89
	256QAM	Low	2 109.98	-29.14
		High	2 180.03	-28.47
1	QPSK	Low	2 109.98	-33.19
		High	2 180.03	-30.79
	16QAM	Low	2 109.98	-32.55
		High	2 180.03	-30.97
	64QAM	Low	2 109.98	-33.27
		High	2 180.03	-29.48
	256QAM	Low	2 109.98	-31.79
		High	2 180.03	-29.74
2	QPSK	Low	2 109.98	-32.49
		High	2 180.03	-29.16
	16QAM	Low	2 109.98	-30.47
		High	2 180.03	-30.38
	64QAM	Low	2 109.98	-31.13
		High	2 180.03	-30.03
	256QAM	Low	2 109.98	-31.97
		High	2 180.03	-29.62
3	QPSK	Low	2 109.98	-29.66
		High	2 180.03	-29.84
	16QAM	Low	2 109.98	-31.18
		High	2 180.03	-30.39
	64QAM	Low	2 109.98	-31.90
		High	2 180.03	-30.12
	256QAM	Low	2 109.98	-29.90
		High	2 180.03	-30.67

**(4 Port) LTE B66 5 MHz 1 Carrier + LTE B66 5 MHz 1 Carrier + LTE B66 10 MHz 1 Carrier + 5G NR n66 20 MHz 1 Carrier  
 [4 Carrier] (3C+1C)**

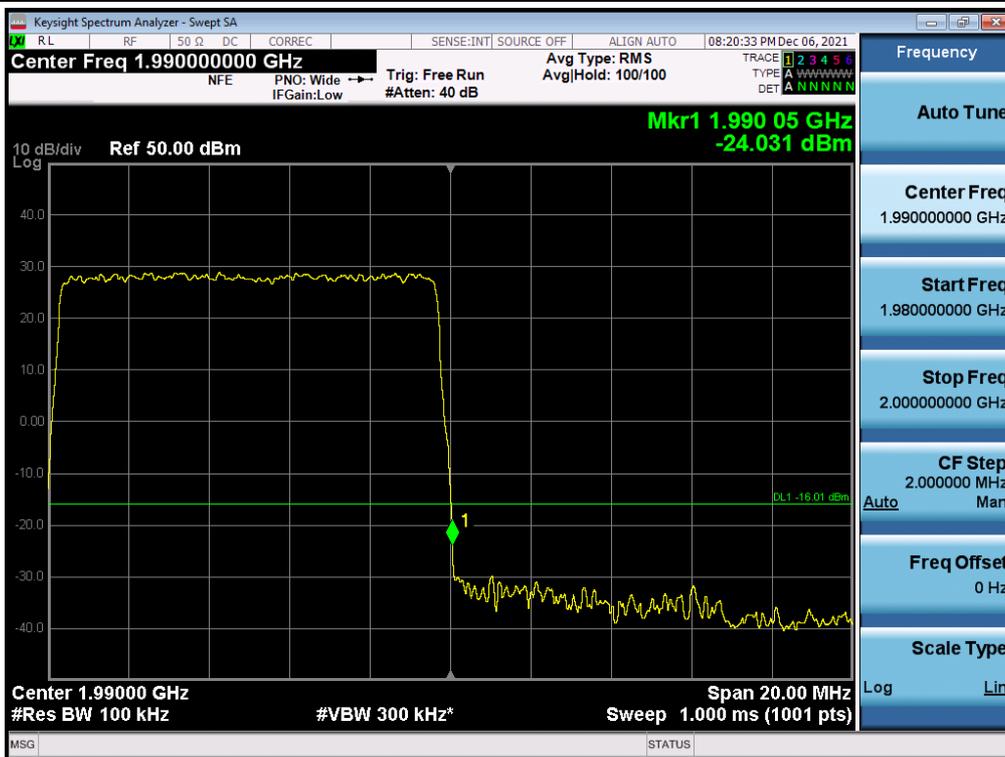
Ant.	Mod.	Channel	Frequency (MHz)	Measured Value (dBm)
0	QPSK	Low	2 109.98	-27.50
		High	2 180.03	-29.30
	16QAM	Low	2 109.98	-29.21
		High	2 180.03	-30.54
	64QAM	Low	2 109.98	-27.67
		High	2 180.03	-30.36
	256QAM	Low	2 109.98	-30.12
		High	2 180.03	-28.90
1	QPSK	Low	2 109.98	-30.52
		High	2 180.03	-32.96
	16QAM	Low	2 109.98	-33.53
		High	2 180.03	-29.51
	64QAM	Low	2 109.98	-32.76
		High	2 180.03	-31.08
	256QAM	Low	2 109.98	-31.18
		High	2 180.03	-29.68
2	QPSK	Low	2 109.98	-29.67
		High	2 180.03	-28.87
	16QAM	Low	2 109.98	-31.01
		High	2 180.03	-29.16
	64QAM	Low	2 109.98	-29.83
		High	2 180.03	-28.23
	256QAM	Low	2 109.98	-29.21
		High	2 180.03	-30.26
3	QPSK	Low	2 109.98	-30.77
		High	2 180.03	-30.09
	16QAM	Low	2 109.98	-31.15
		High	2 180.03	-31.12
	64QAM	Low	2 109.98	-29.92
		High	2 180.03	-30.61
	256QAM	Low	2 109.98	-30.02
		High	2 180.03	-29.76

Plot Data of Out-of-band Unwanted Emissions

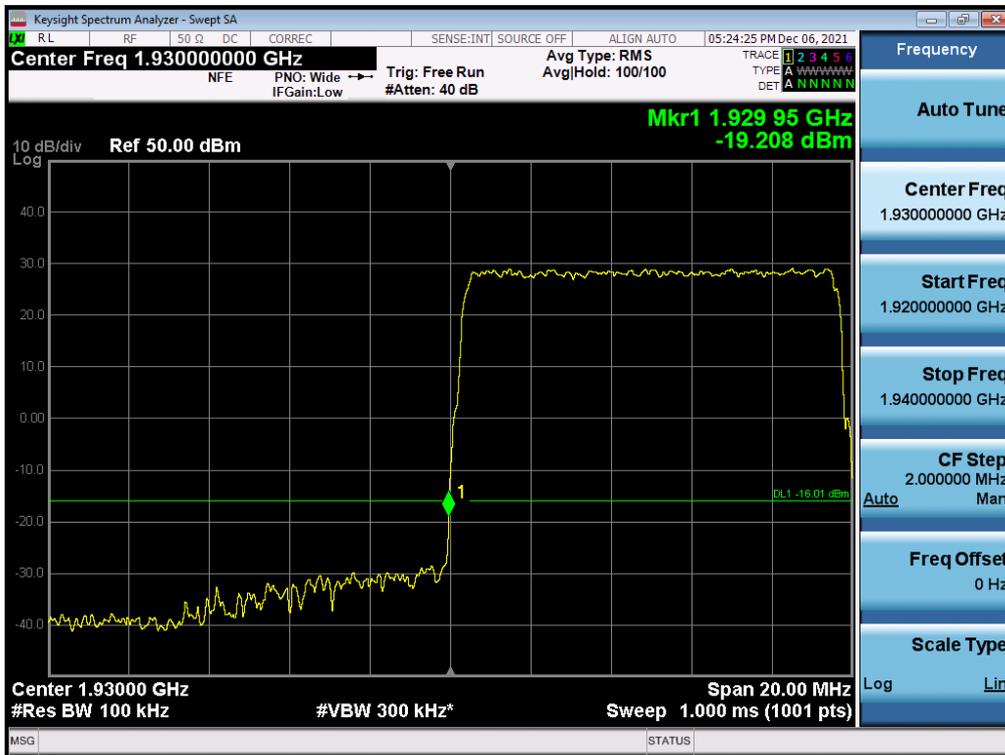
Antenna 1 / (2 Port) B2 DSS 10 MHz 2to8 1 Carrier / 16QAM / Low



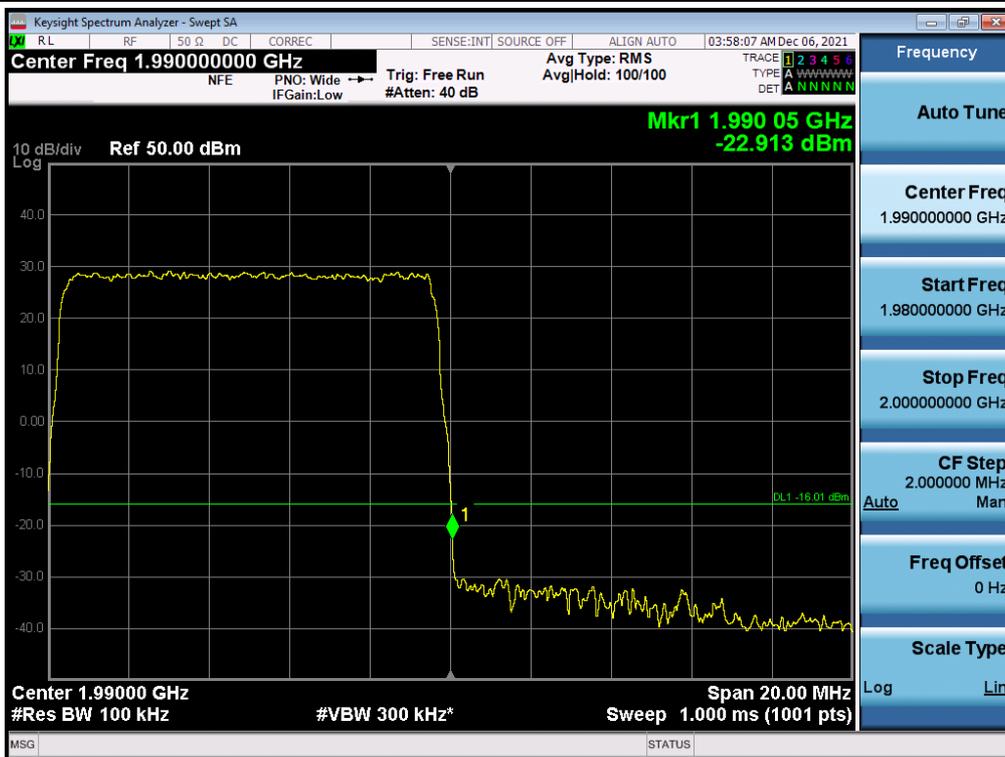
Antenna 1 / (2 Port) B2 DSS 10 MHz 2to8 1 Carrier / QPSK / High



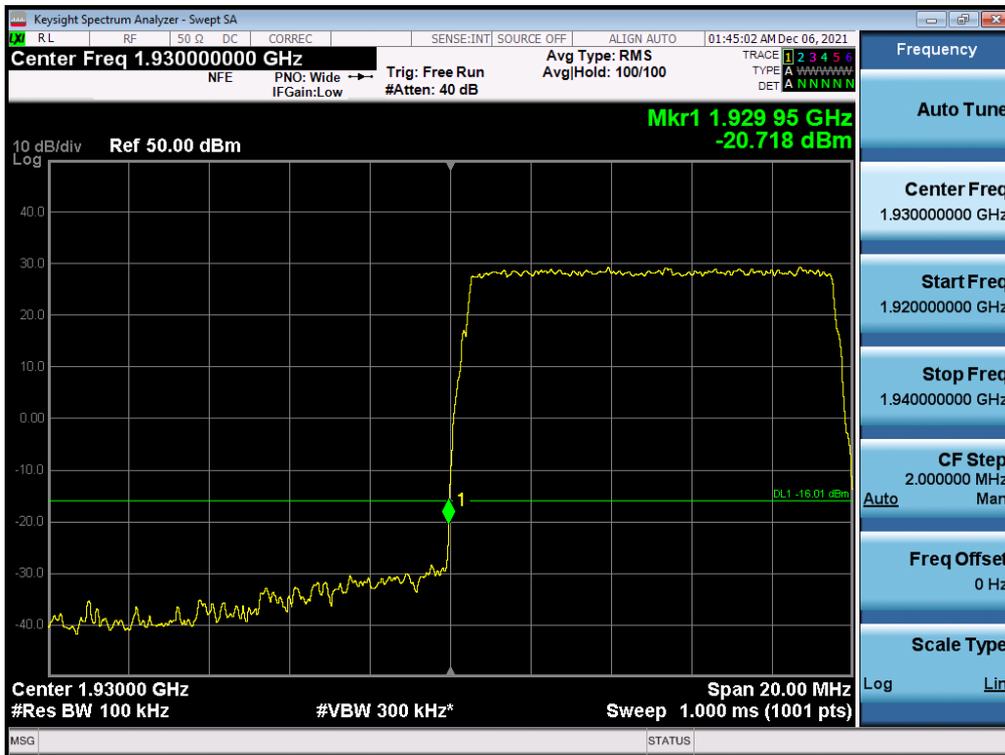
Antenna 1 / (2 Port) B2 DSS 10 MHz 5to5 1 Carrier / 64QAM / Low



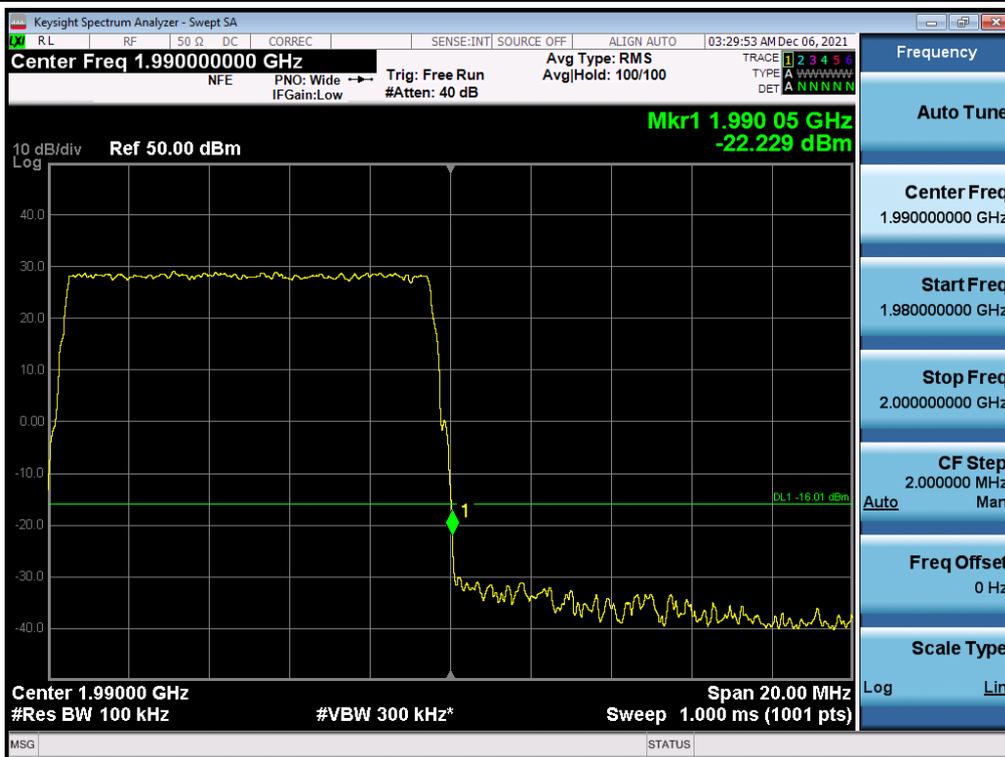
Antenna 0 / (2 Port) B2 DSS 10 MHz 5to5 1 Carrier / QPSK / High



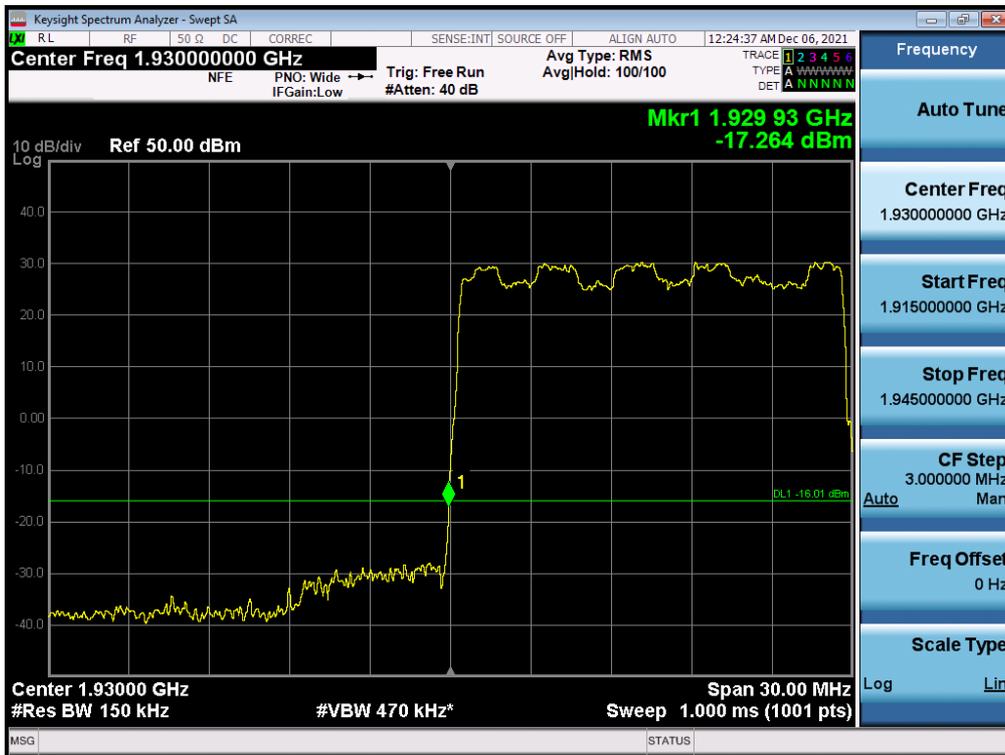
Antenna 0 / (2 Port) B2 DSS 10 MHz 9to1 1 Carrier / 64QAM / Low



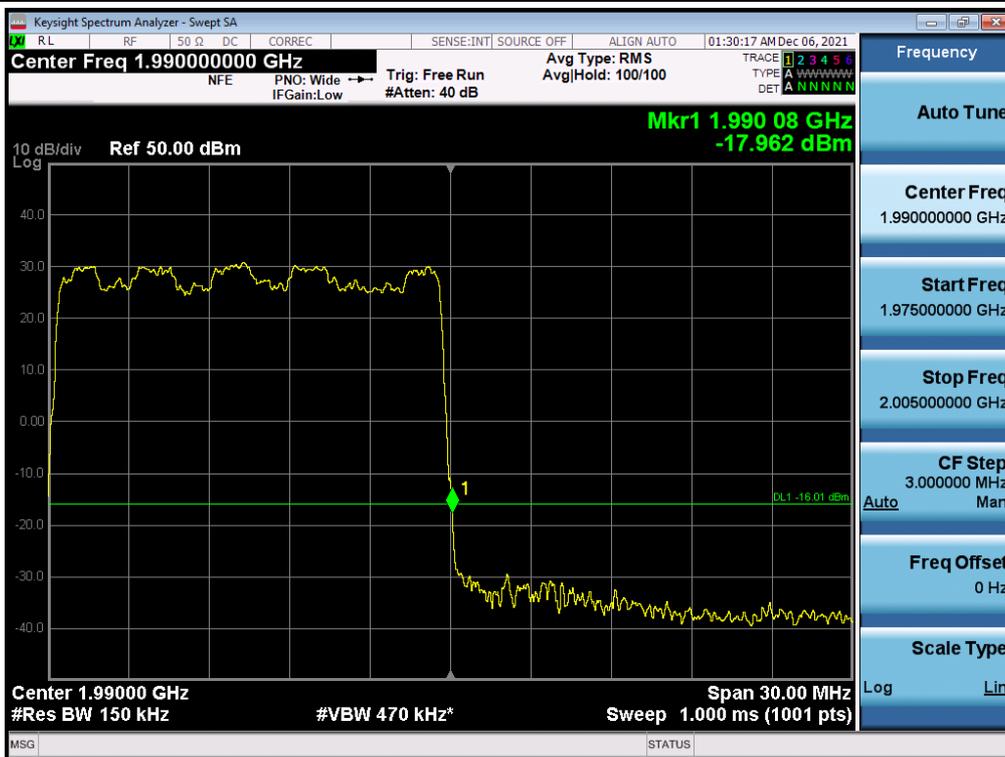
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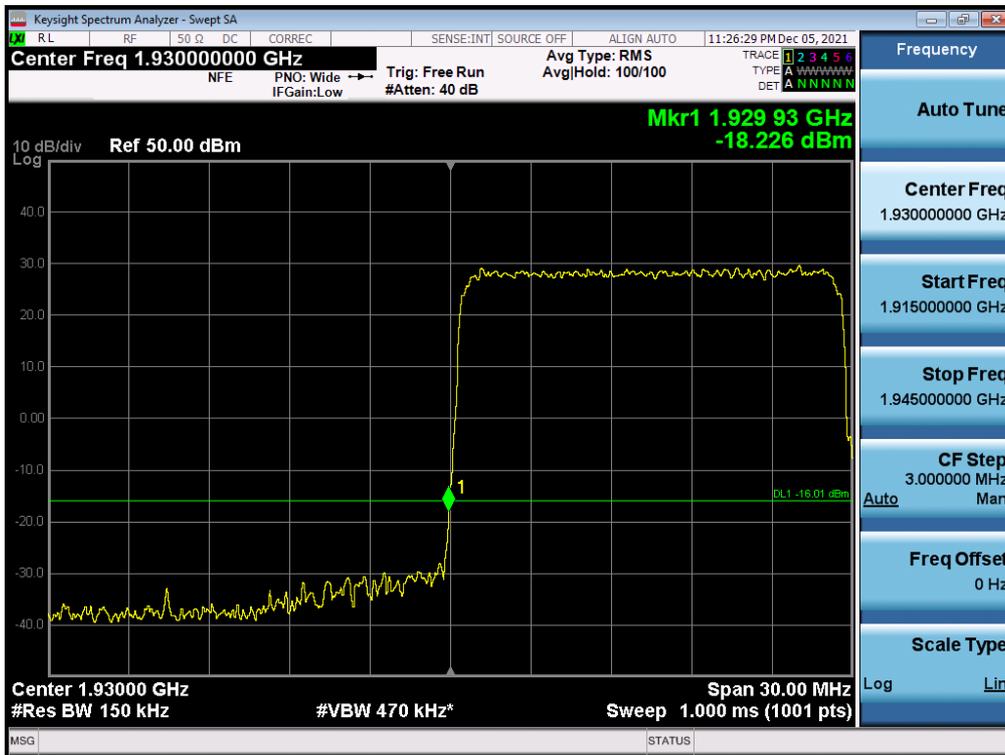
Antenna 1 / (2 Port) B2 DSS 15 MHz 2to8 1 Carrier / 16QAM / Low



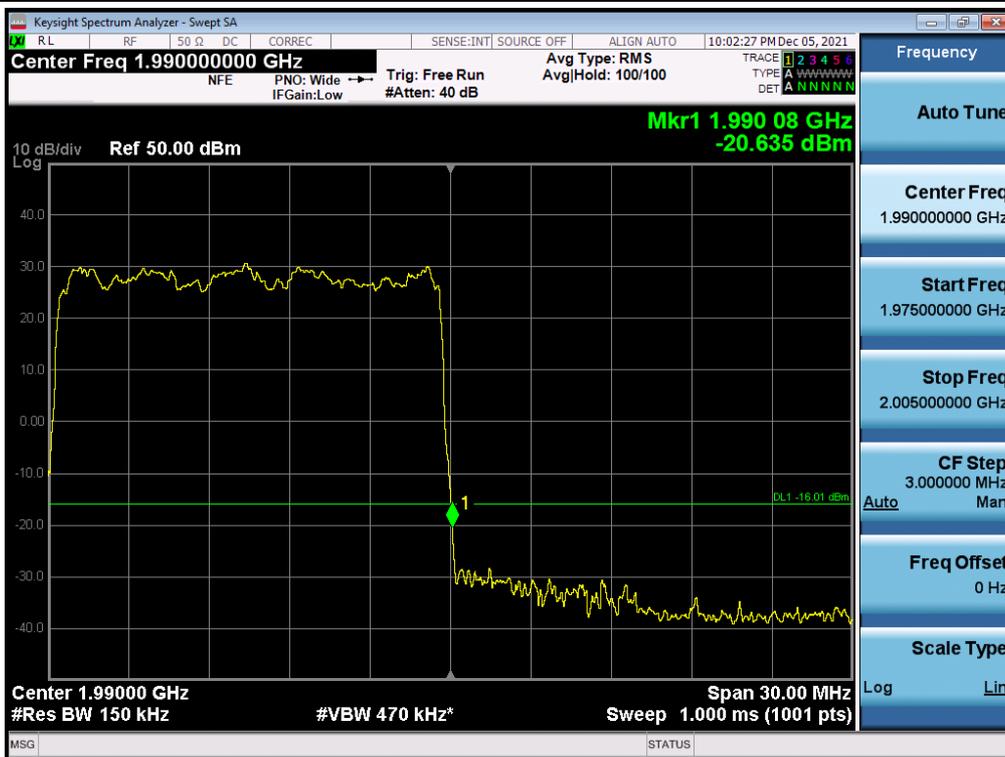
Antenna 0 / (2 Port) B2 DSS 15 MHz 2to8 1 Carrier / 16QAM / High



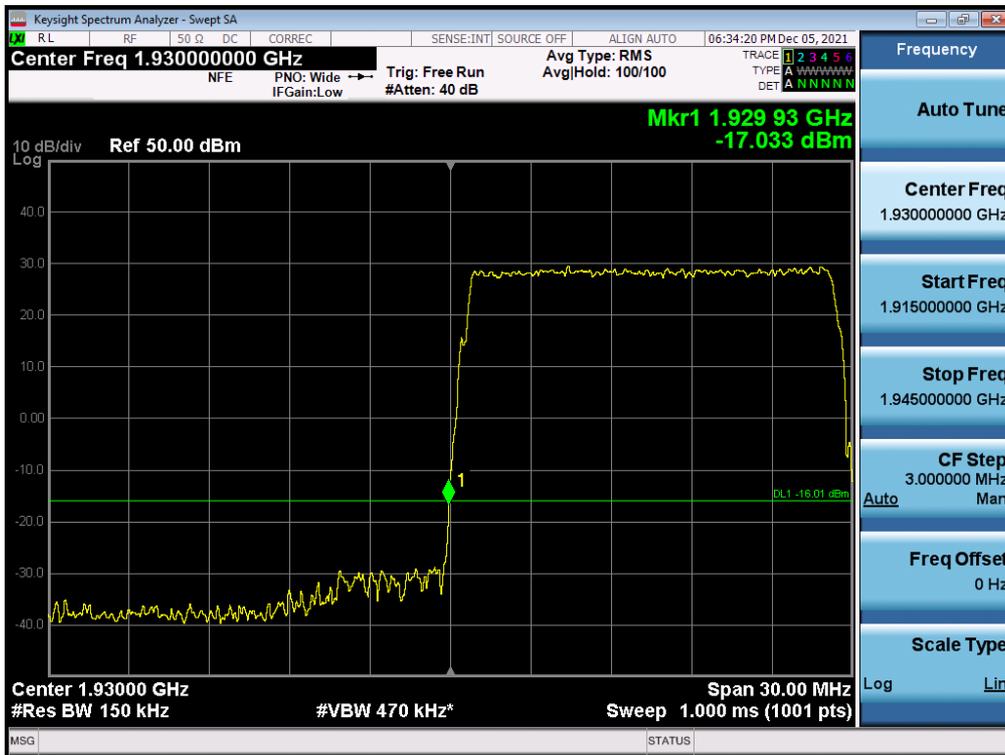
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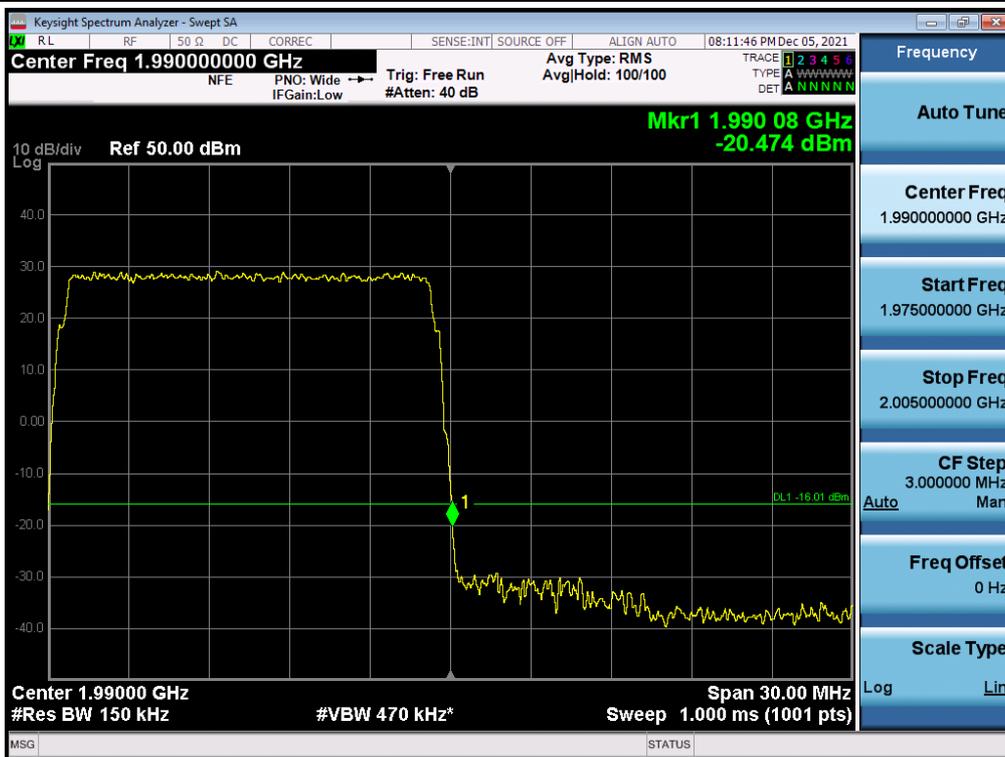
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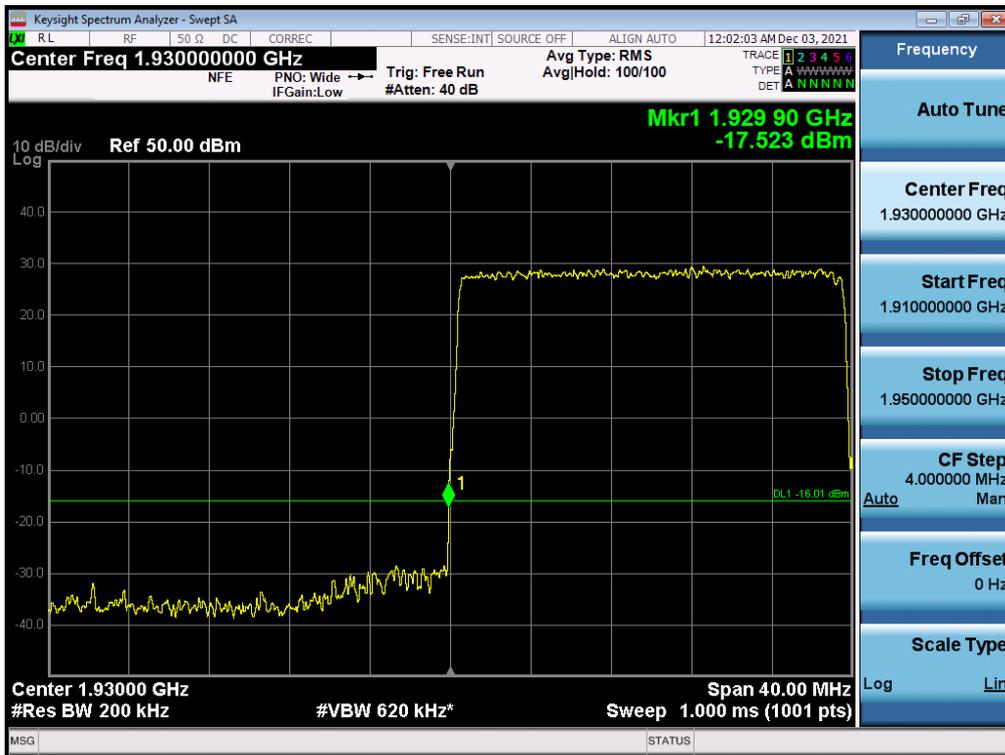
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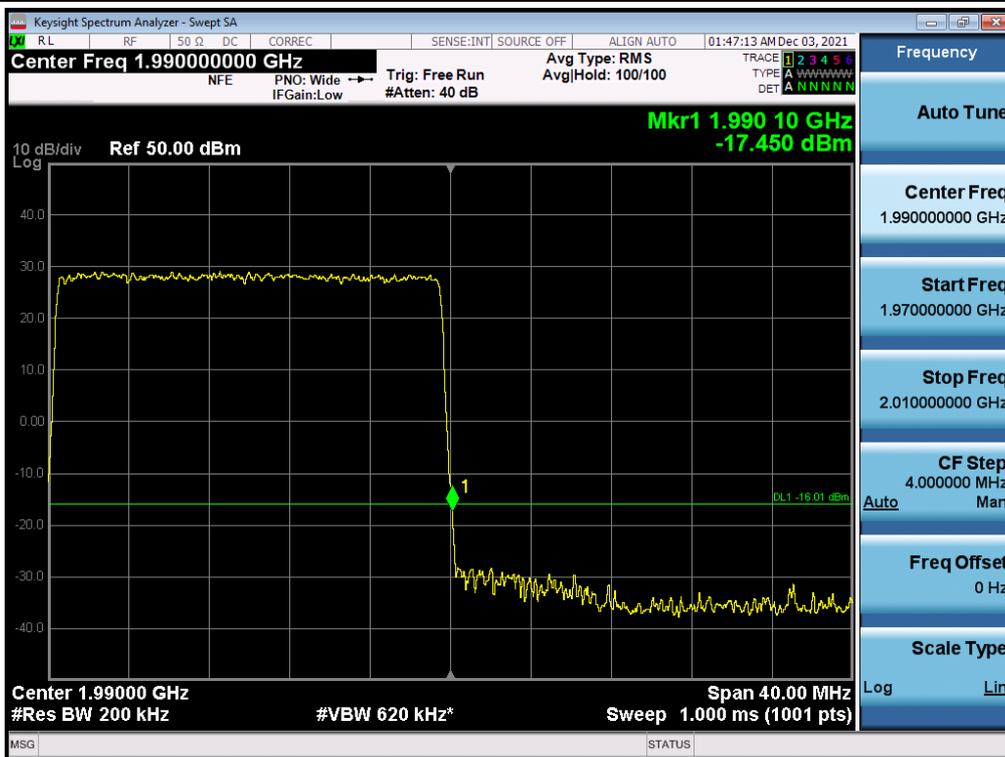
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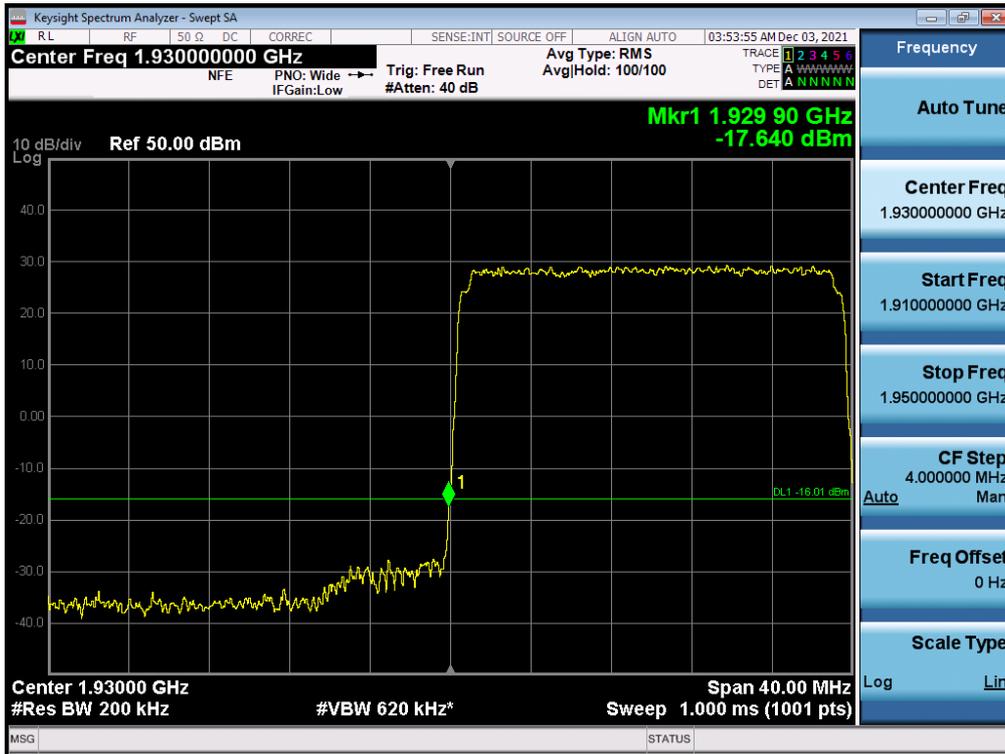
Antenna 0 / (2 Port) B2 DSS 20 MHz 2to8 1 Carrier / QPSK / Low



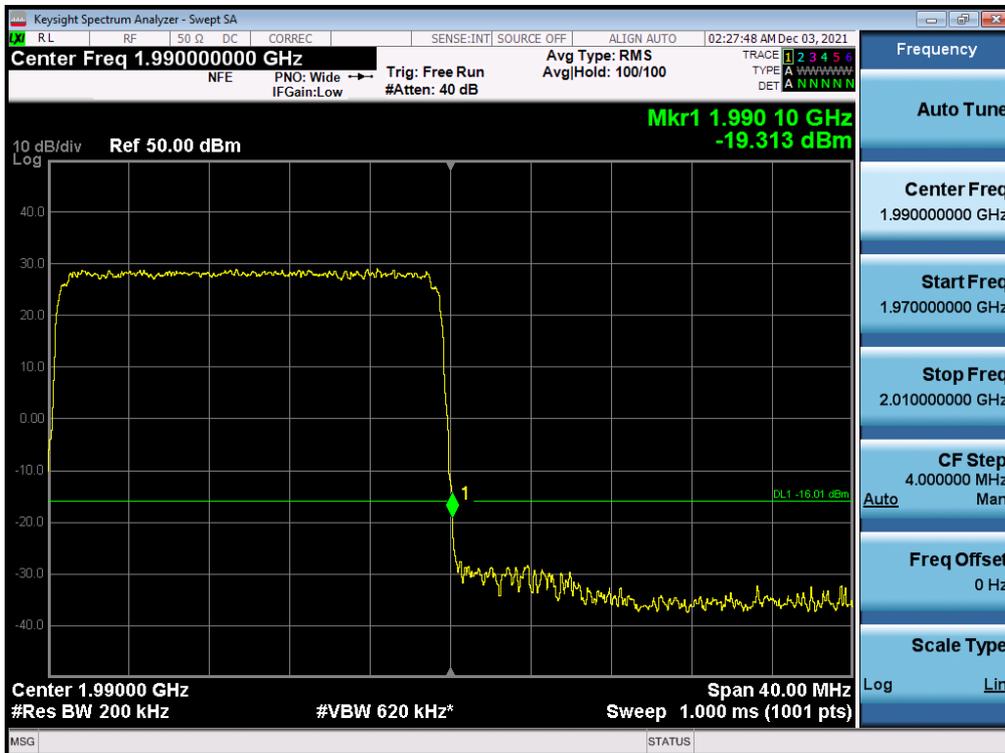
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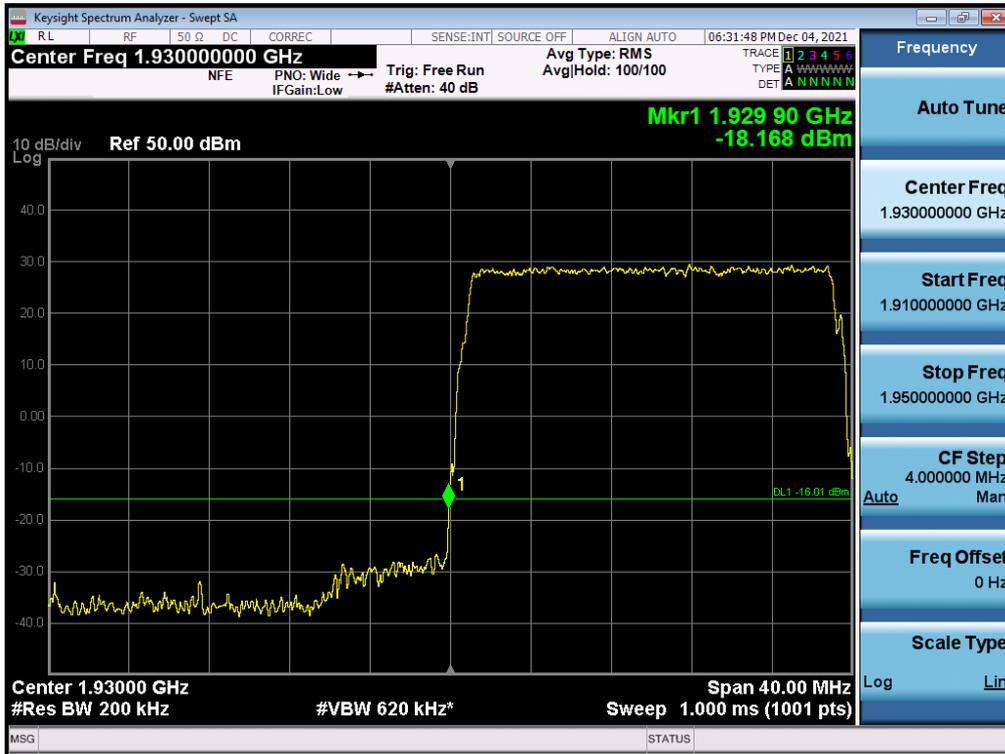
## Antenna 1 / (2 Port) B2 DSS 20 MHz 5to5 1 Carrier / QPSK / Low



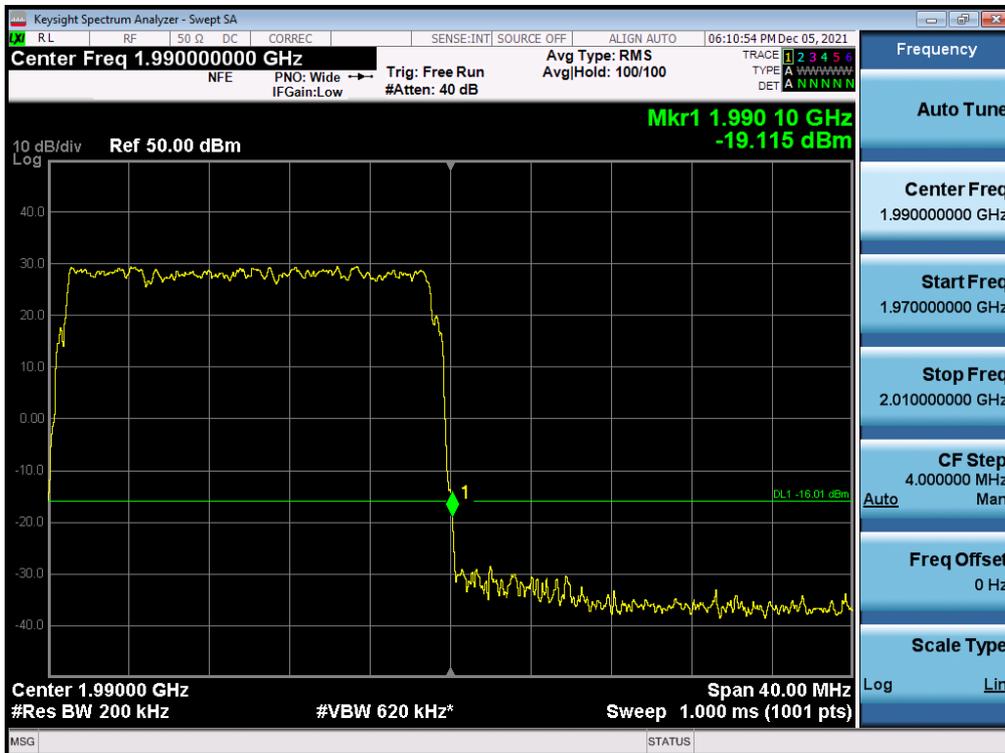
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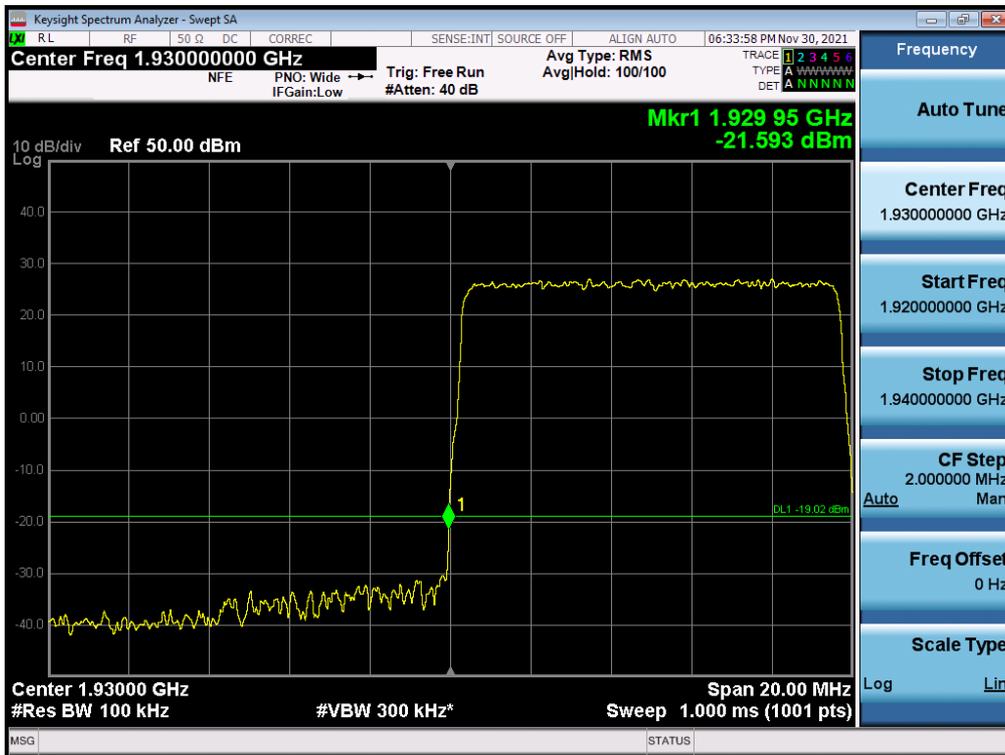
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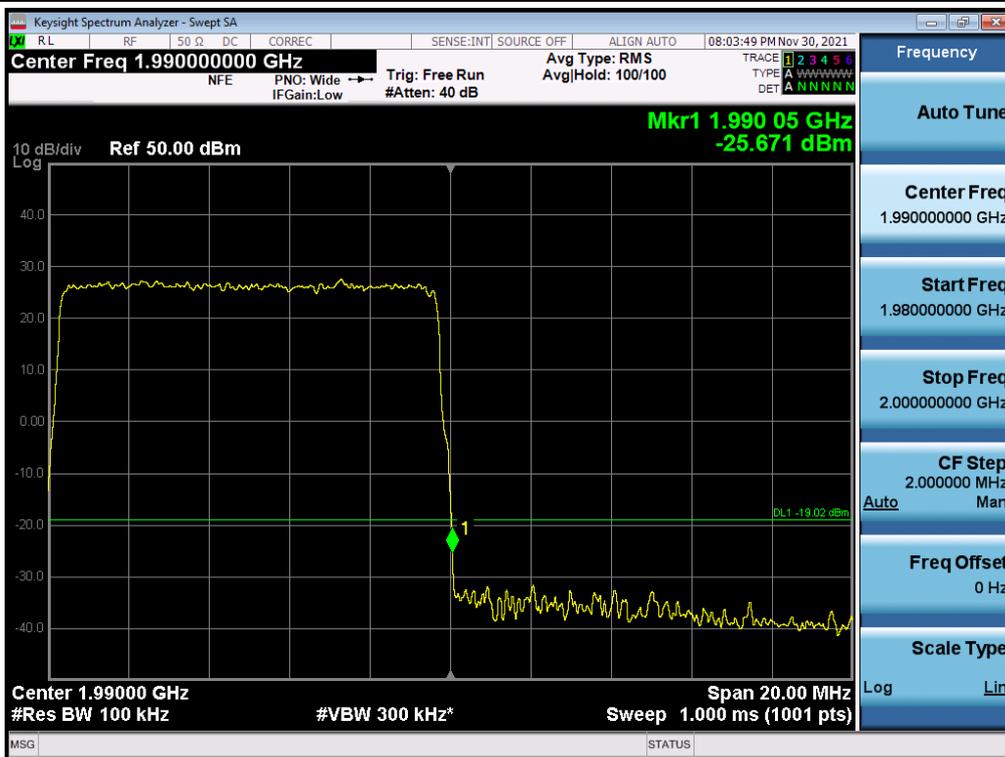
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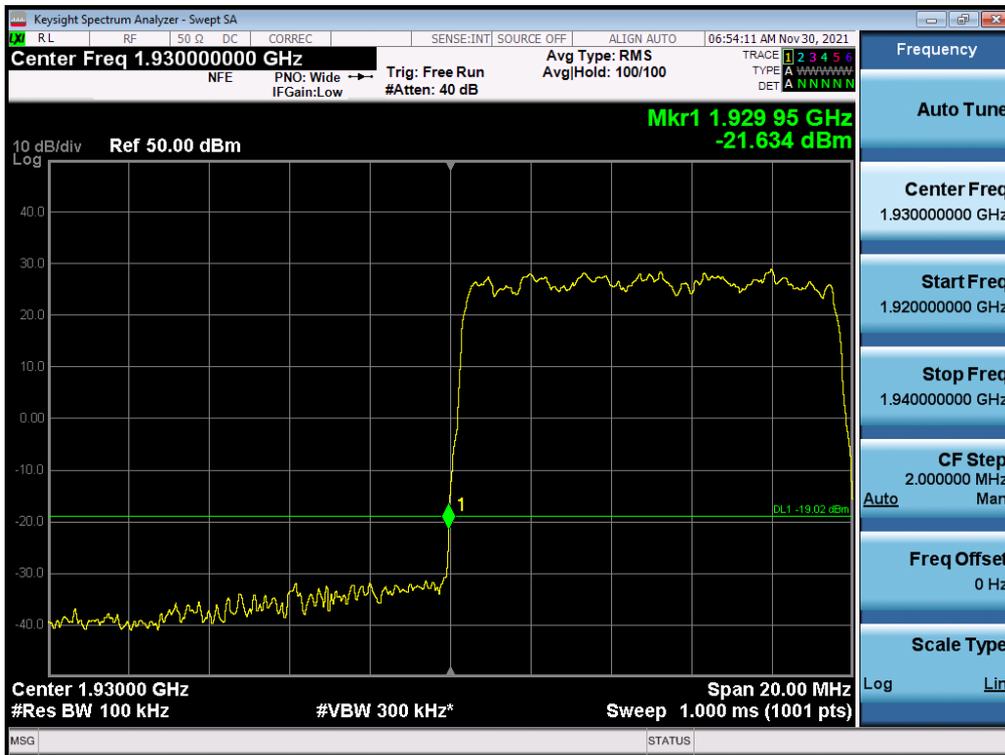
Antenna 3 / (4 Port) B2 DSS 10 MHz 2to8 1 Carrier / 64QAM / Low



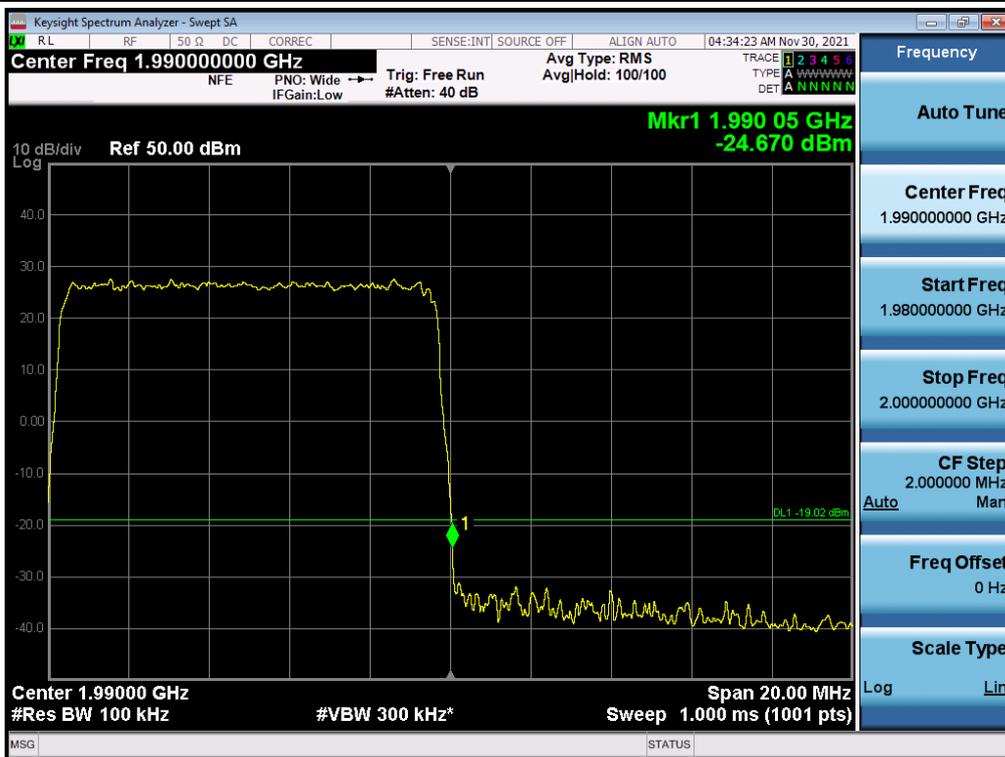
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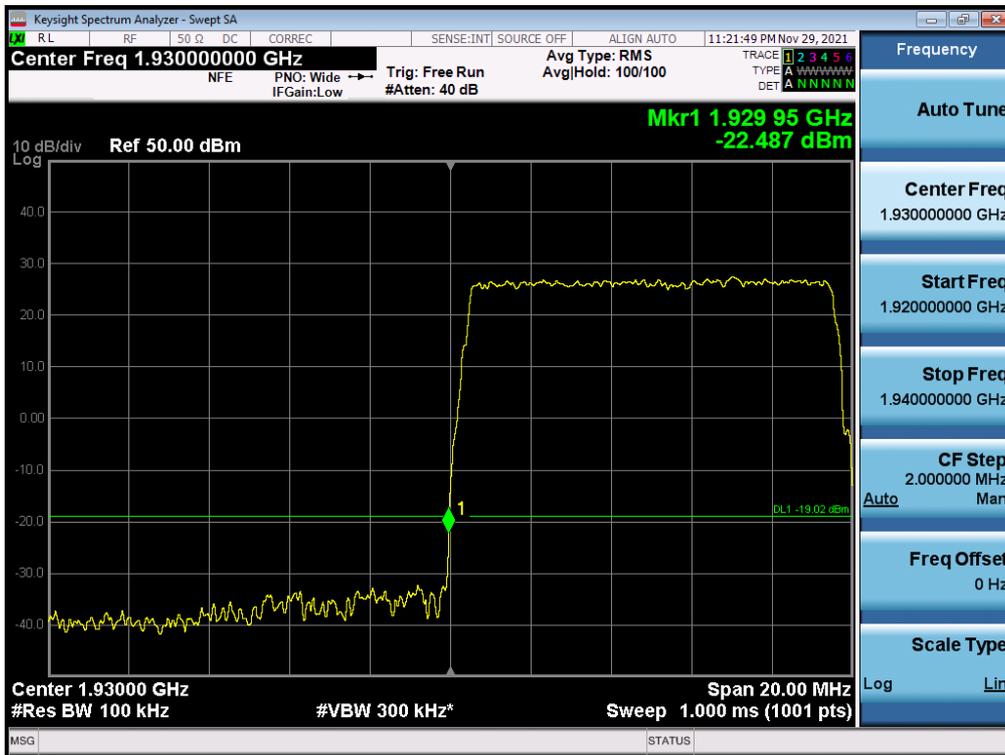
Antenna 2 / (4 Port) B2 DSS 10 MHz 5to5 1 Carrier / 16QAM / Low



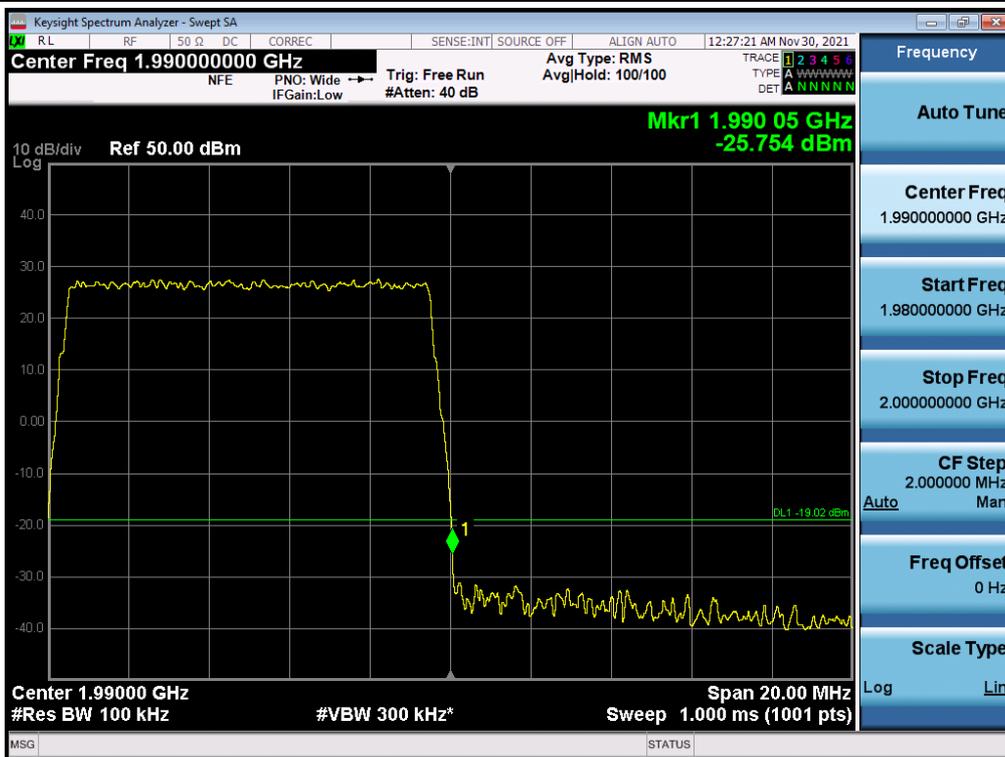
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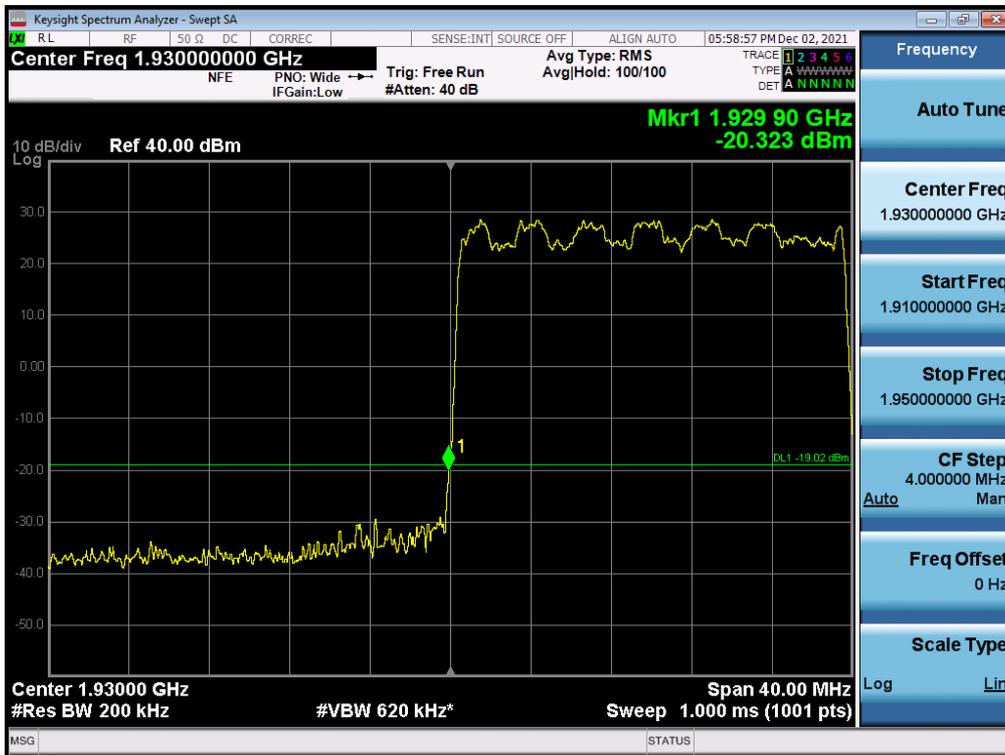
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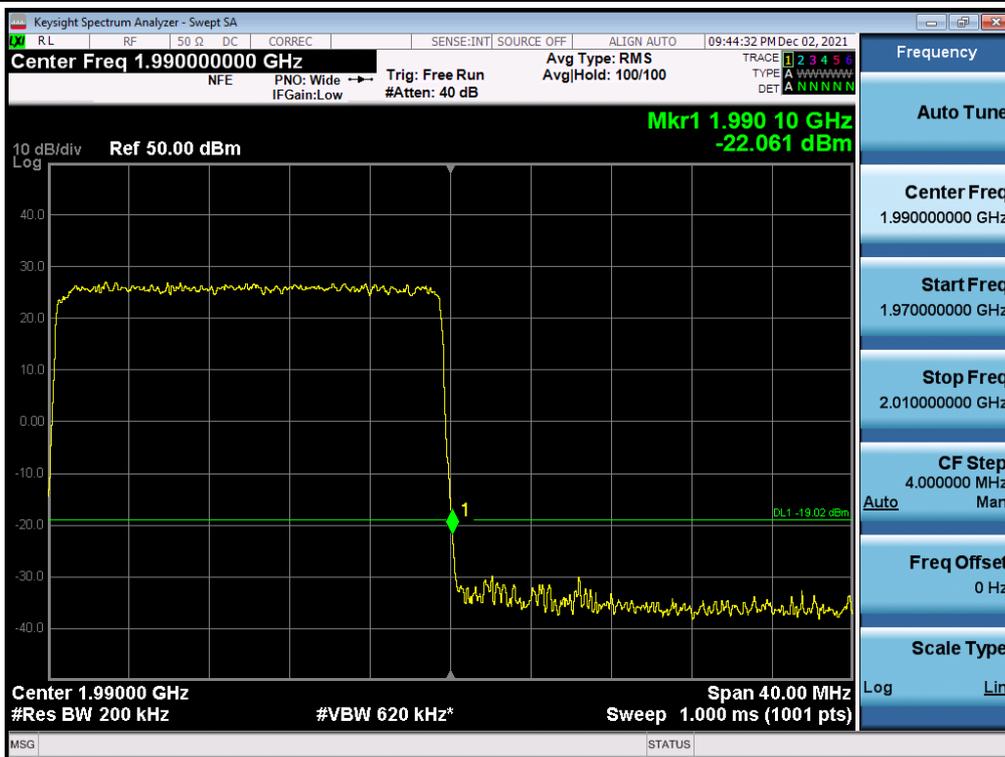
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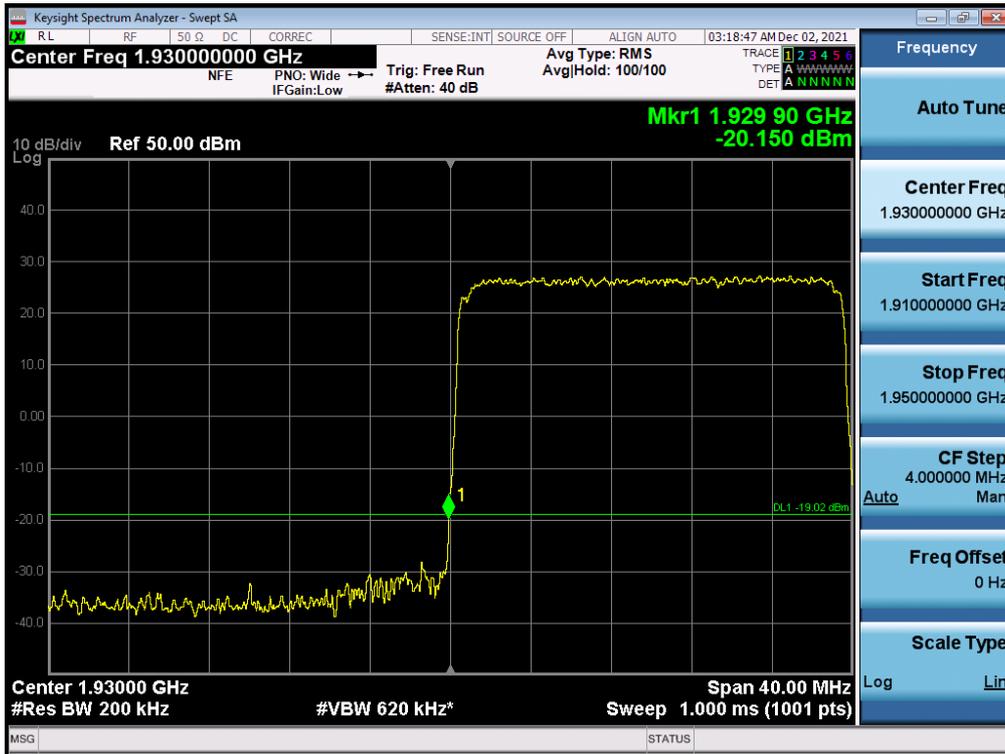
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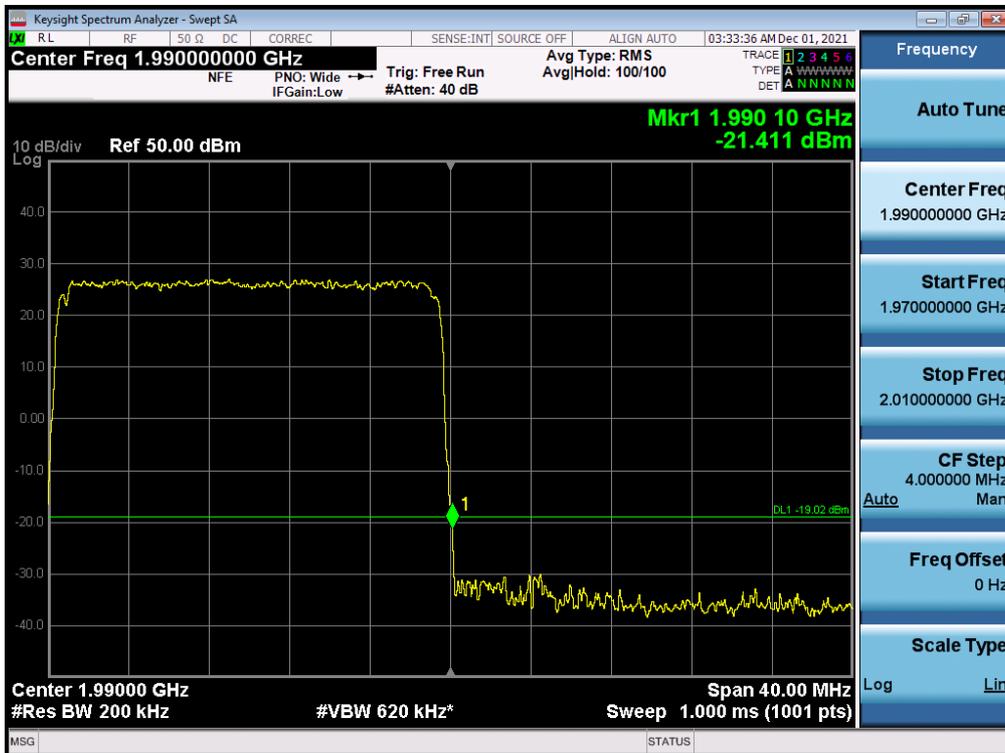
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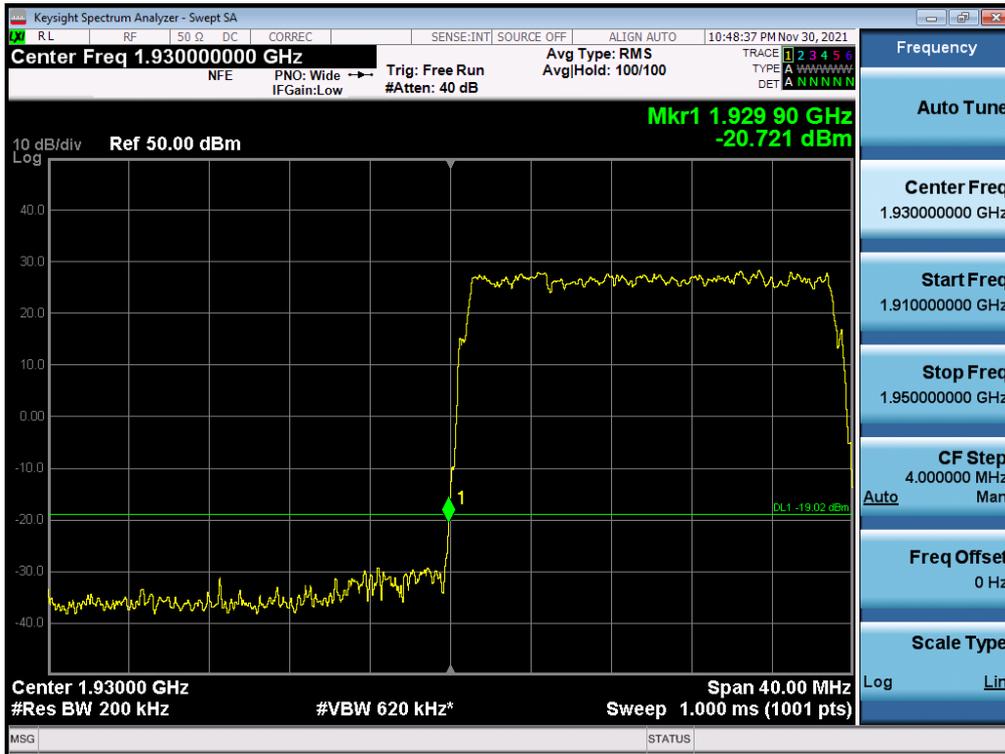
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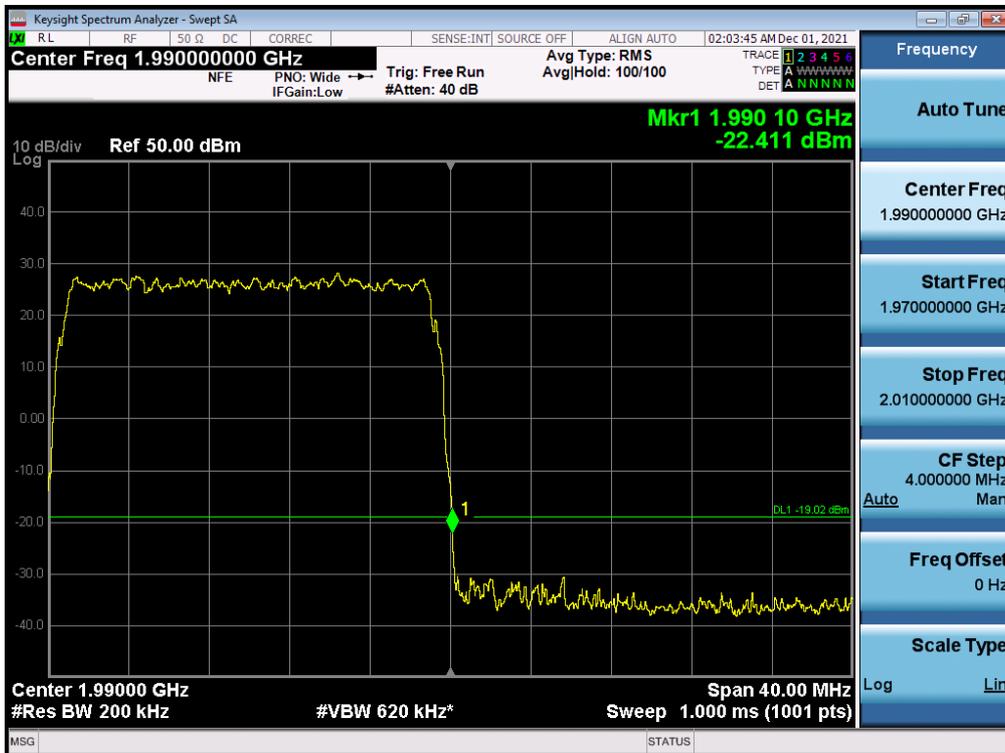
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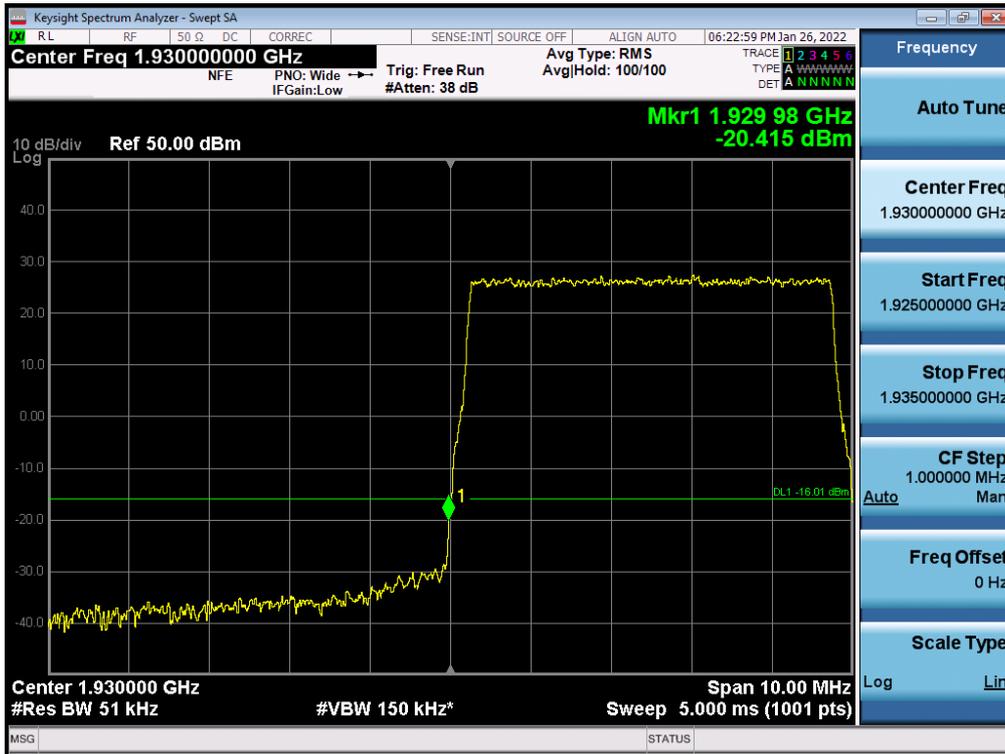
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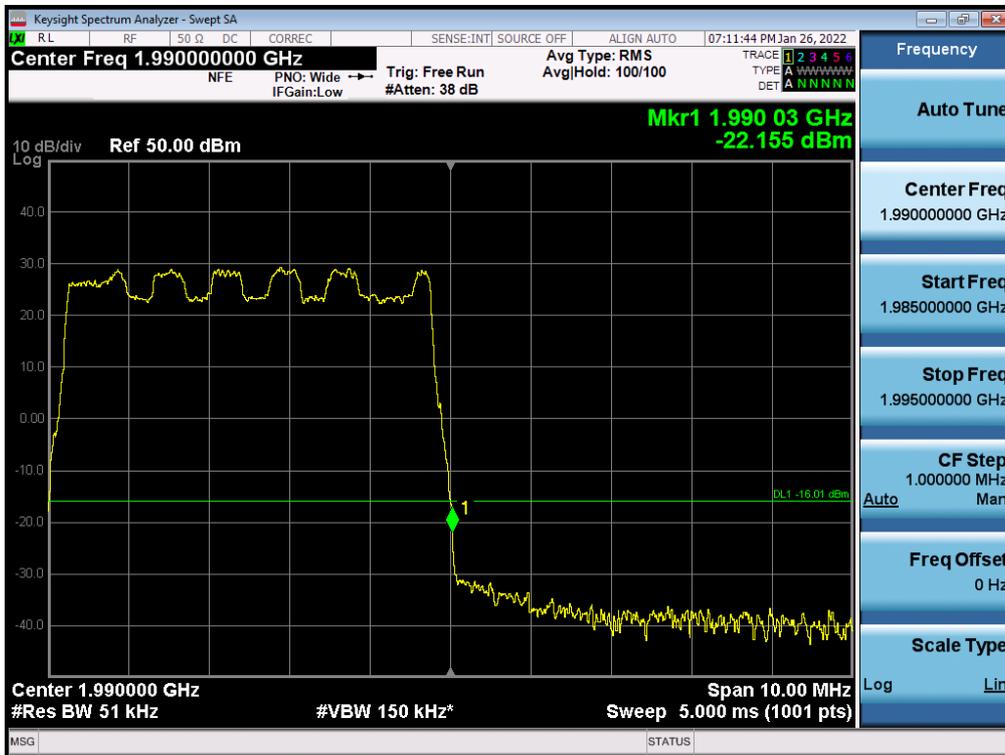
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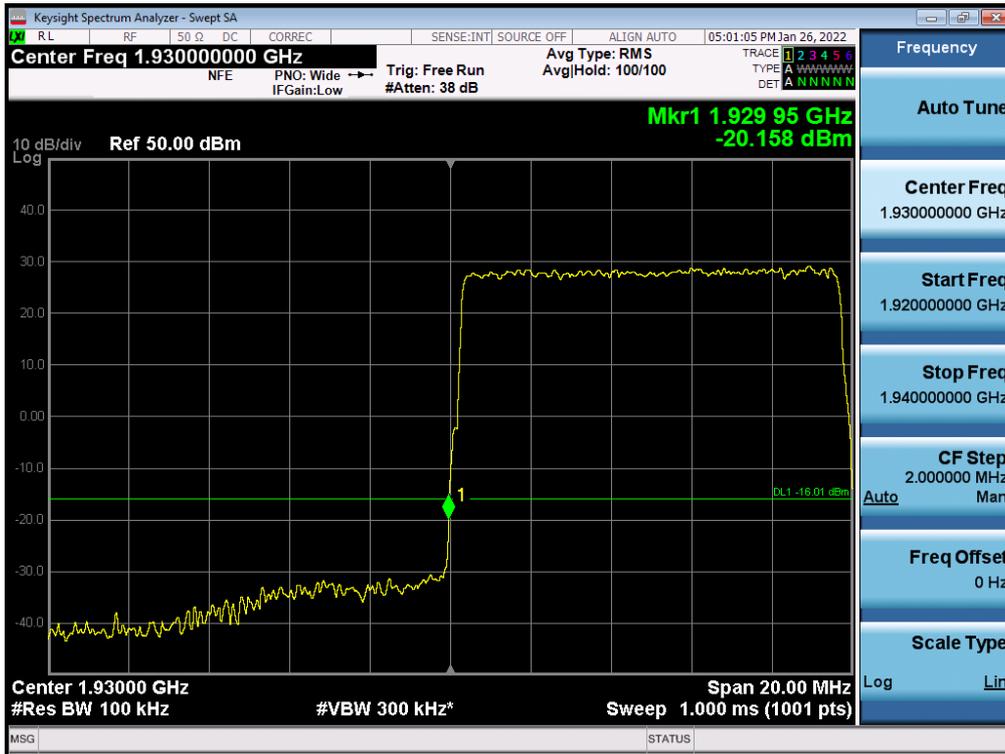
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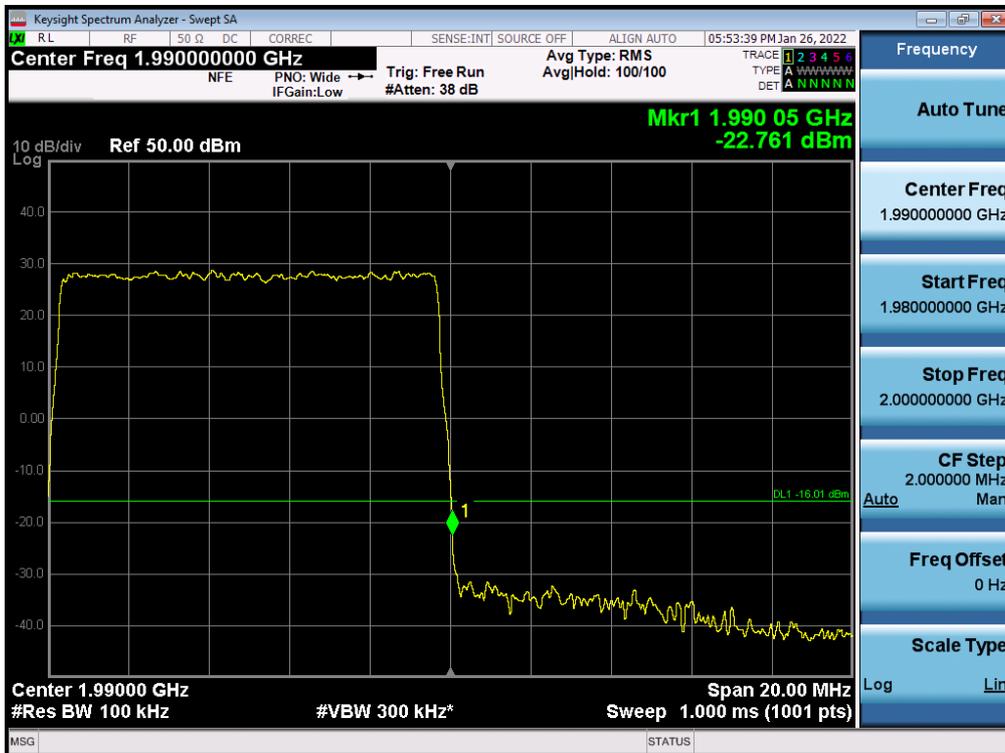
Antenna 0 / (2 Port) 5G NR n2 5 MHz 1 Carrier / 16QAM / High



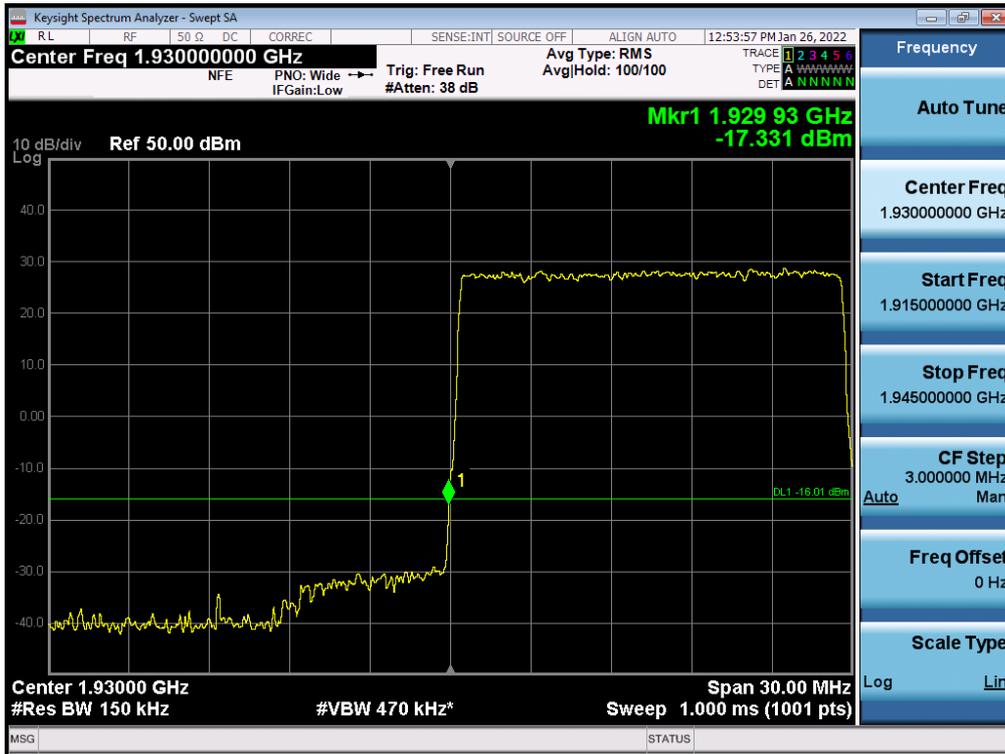
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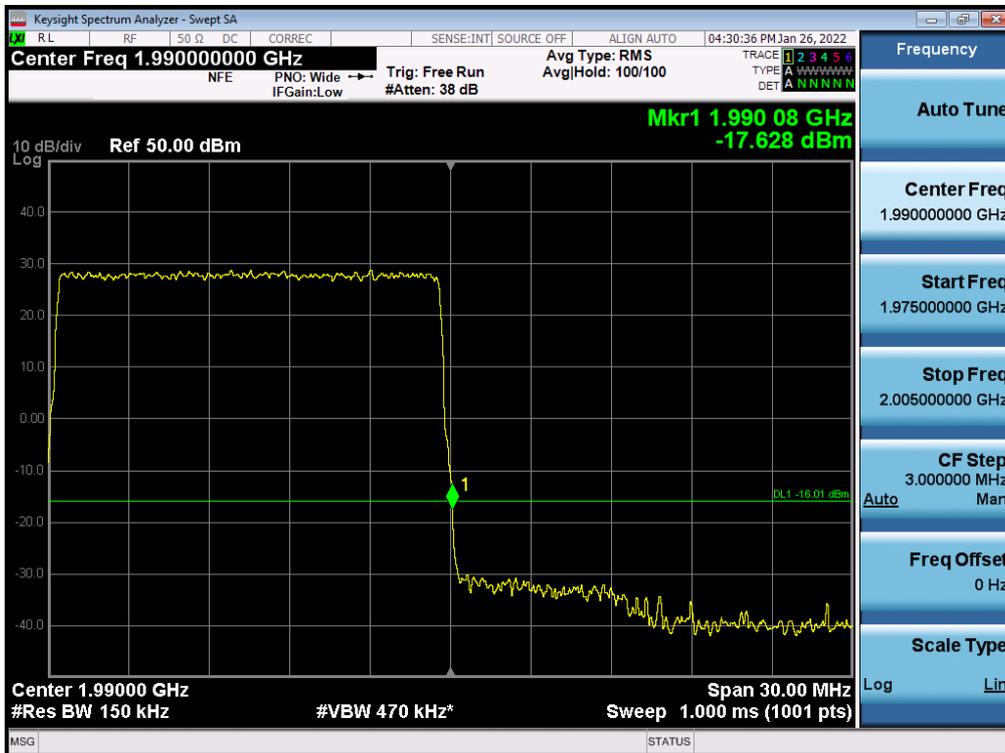
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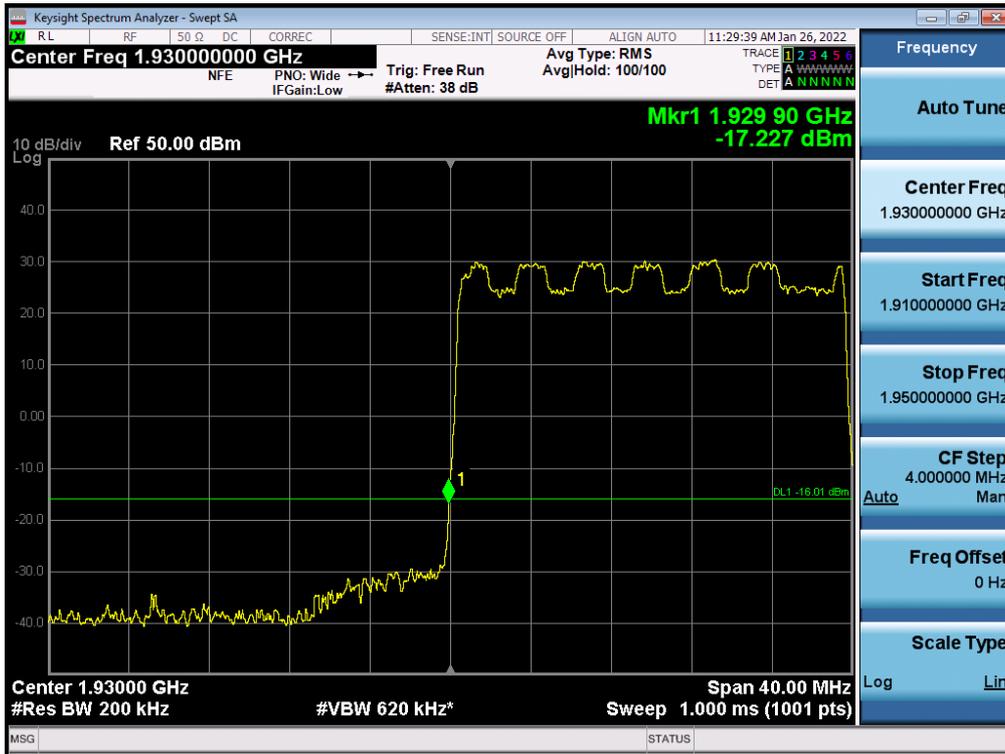
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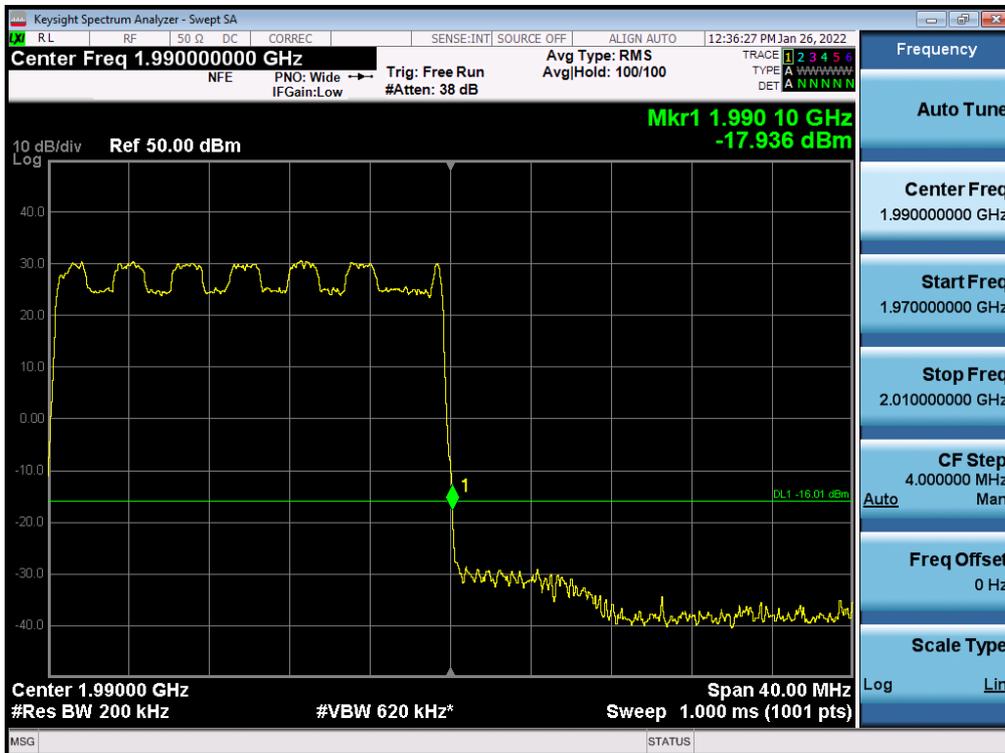
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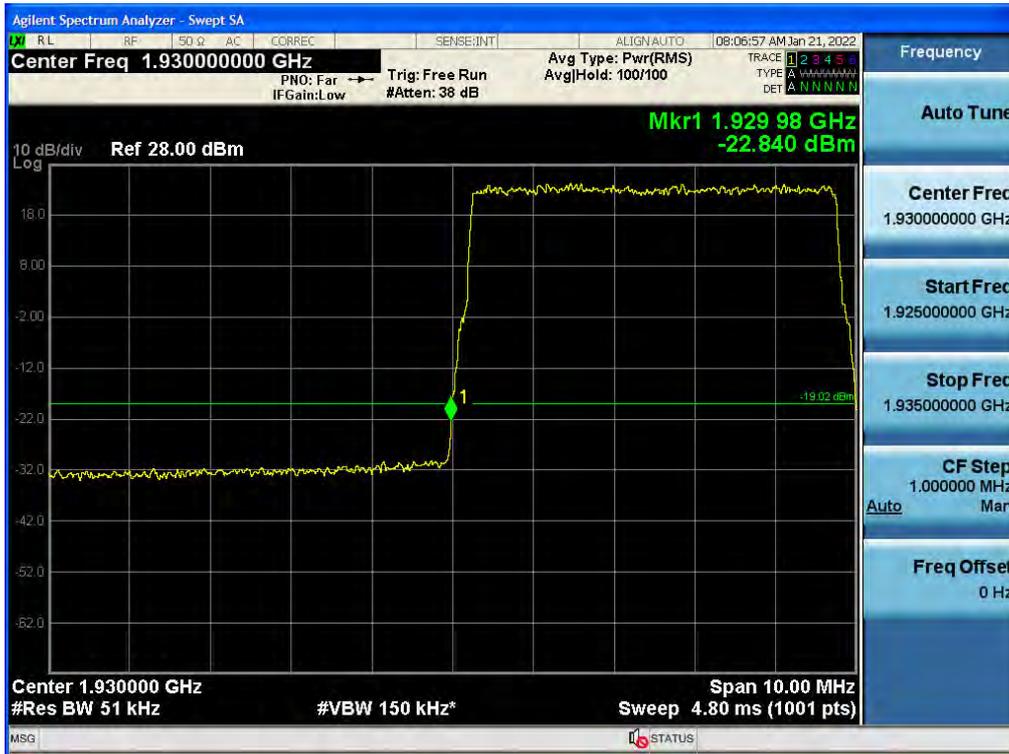
## Antenna 0 / (2 Port) 5G NR n2 20 MHz 1 Carrier / 16QAM / Low



## Antenna 1 / (2 Port) 5G NR n2 20 MHz 1 Carrier / 16QAM / High



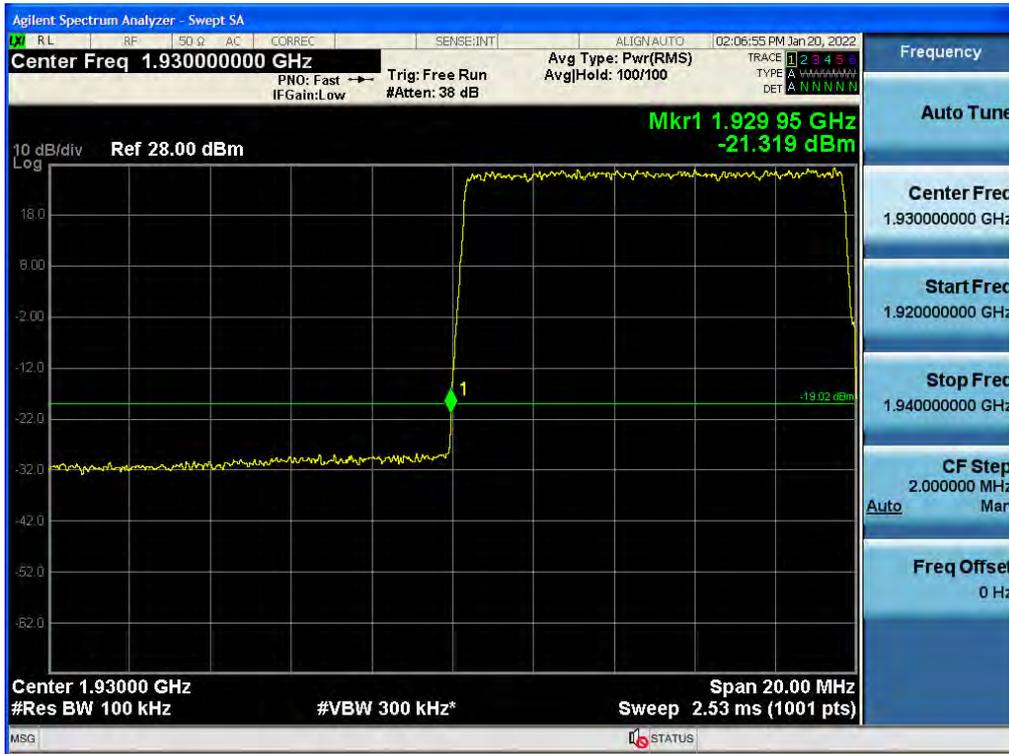
## Antenna 3 / (4 Port) 5G NR n2 5 MHz 1 Carrier / 256QAM / Low



## Antenna 0 / (4 Port) 5G NR n2 5 MHz 1 Carrier / 16QAM / High



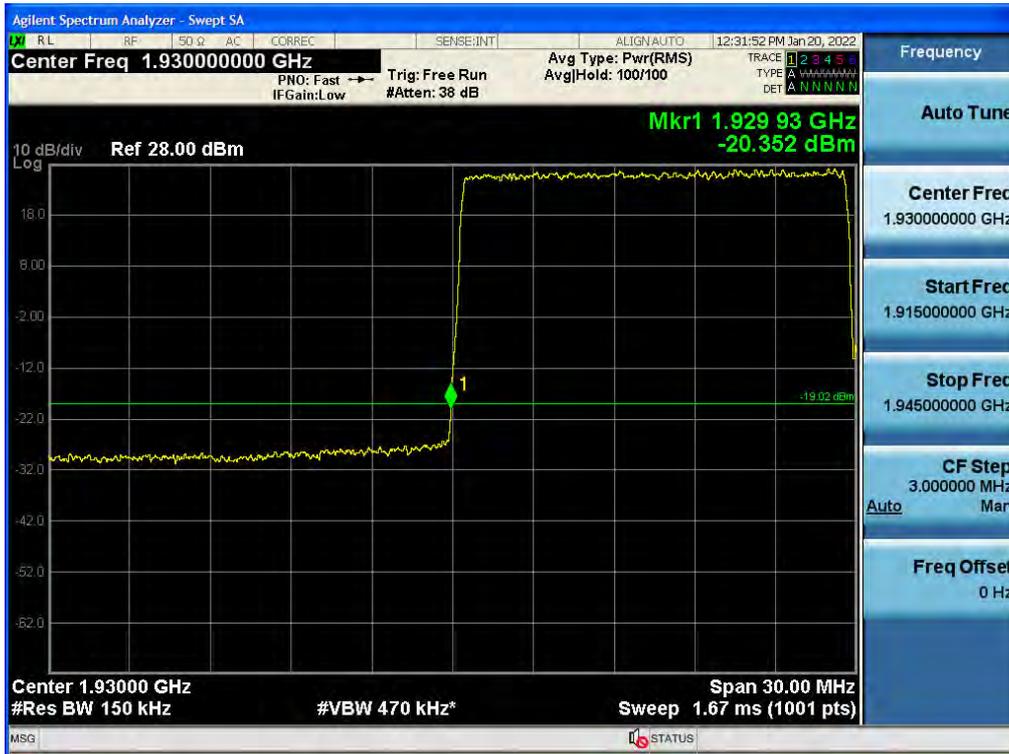
## Antenna 1 / (4 Port) 5G NR n2 10 MHz 1 Carrier / QPSK / Low



## Antenna 3 / (4 Port) 5G NR n2 10 MHz 1 Carrier / 64QAM / High



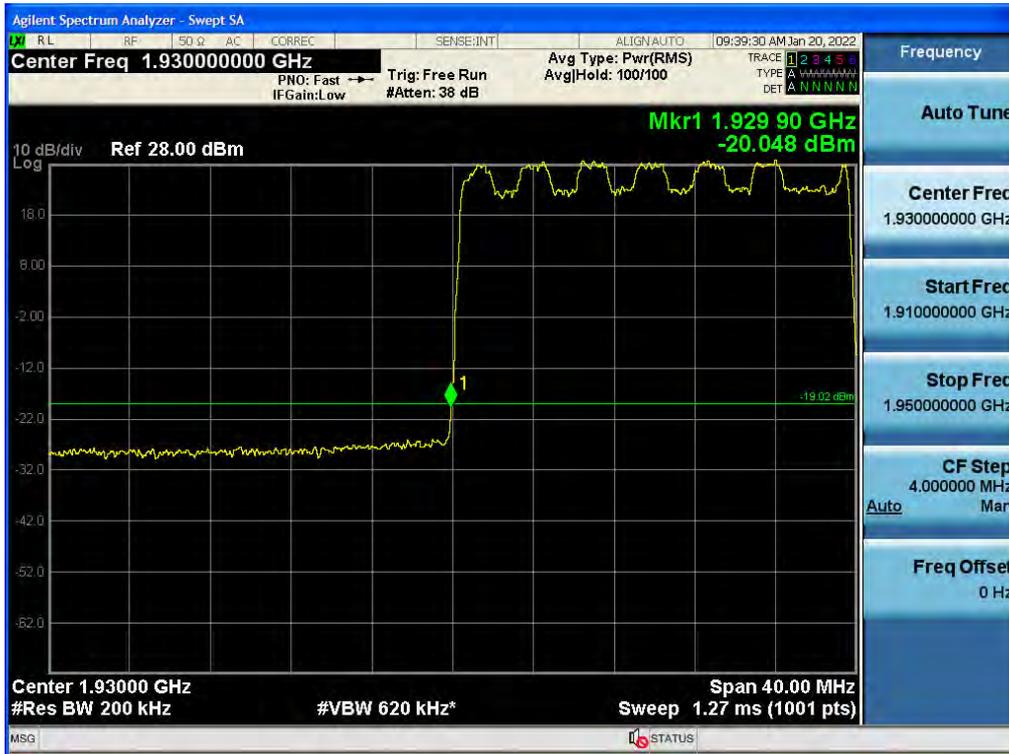
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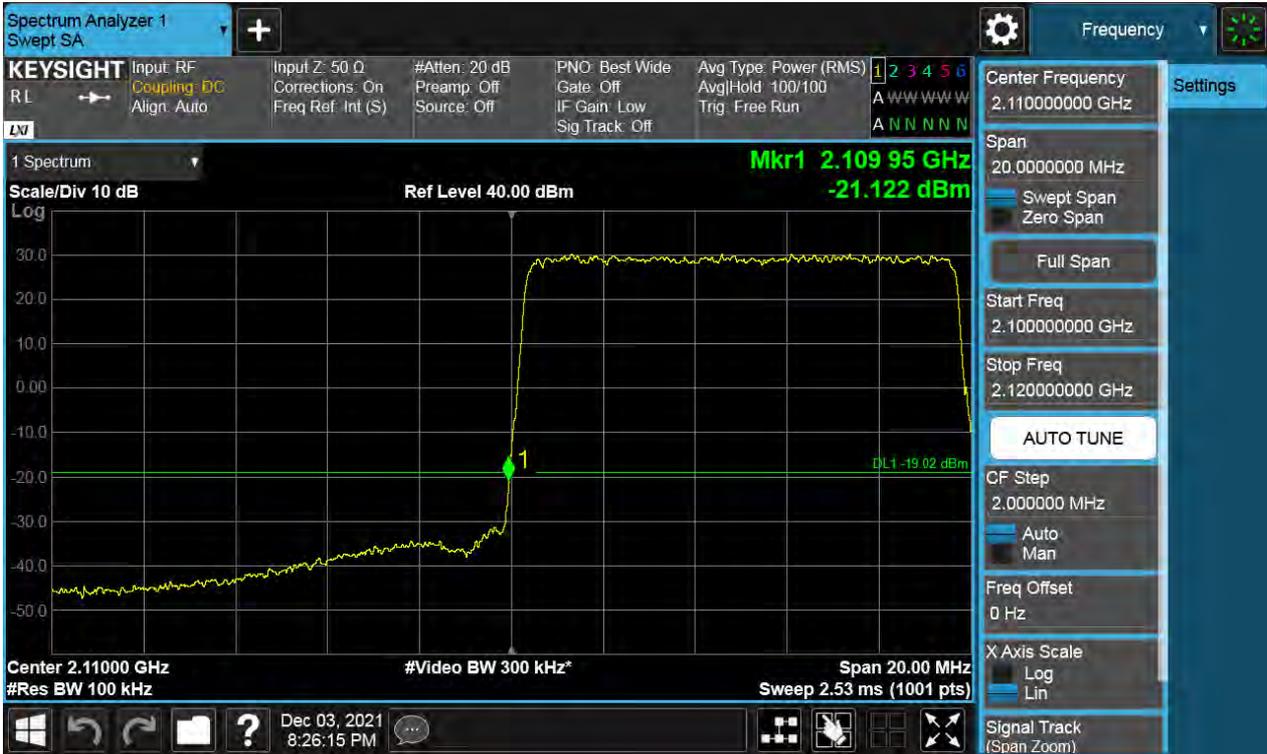
Antenna 1 / (4 Port) 5G NR n2 20 MHz 1 Carrier / 16QAM / Low



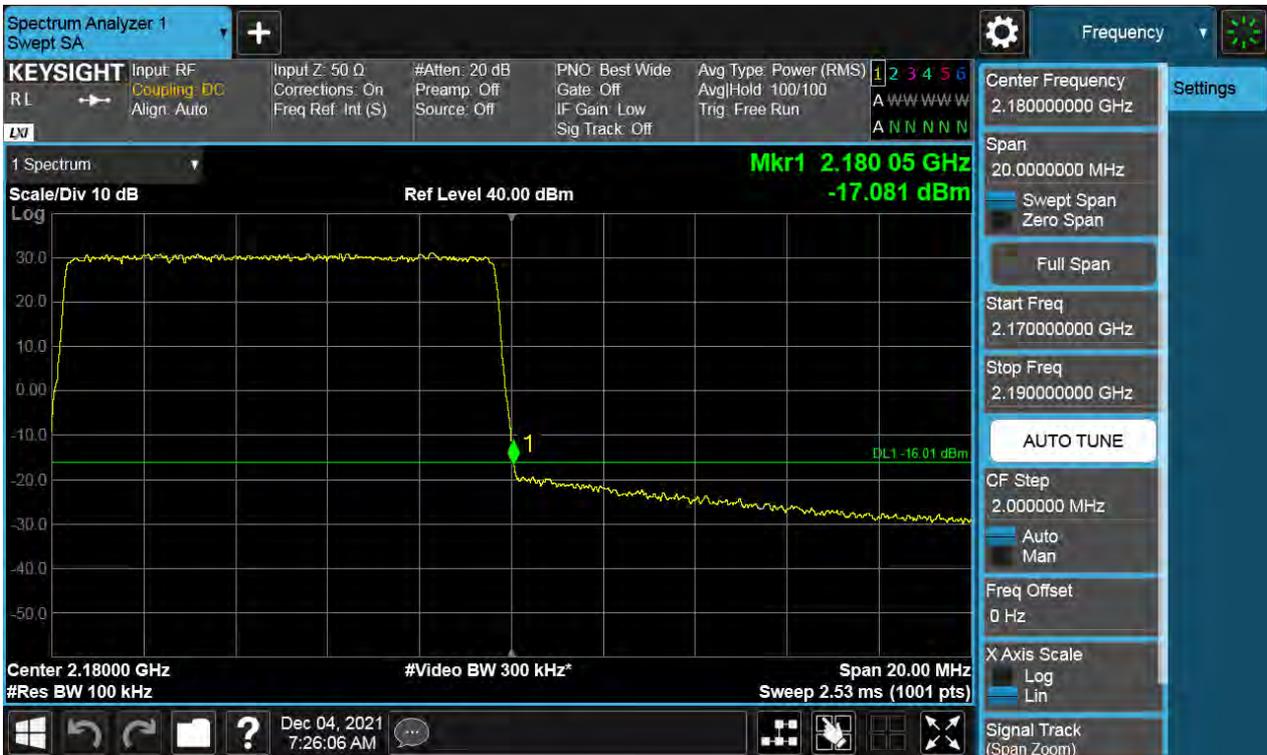
Antenna 3 / (4 Port) 5G NR n2 20 MHz 1 Carrier / QPSK / High



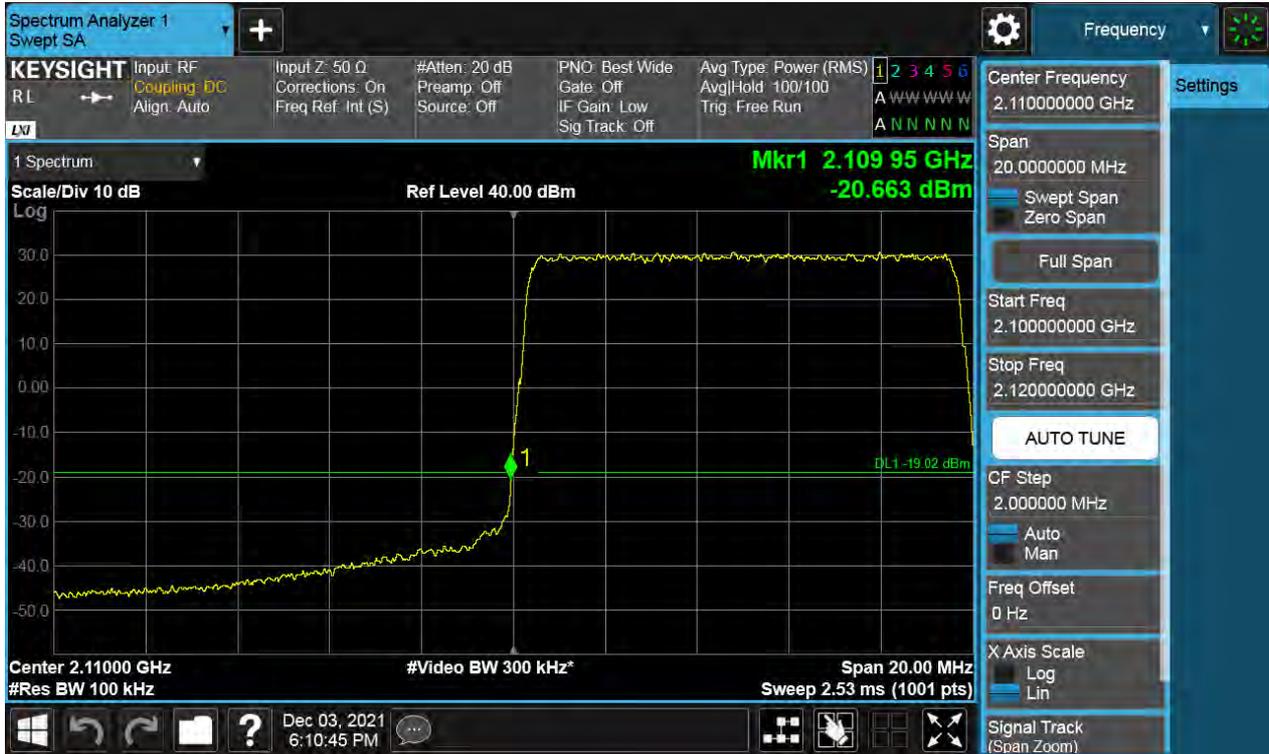
Antenna 1 / (2 Port) B66 DSS 10 MHz 2to8 1 Carrier / 256QAM / Low



Antenna 0 / (2 Port) B66 DSS 10 MHz 2to8 1 Carrier / QPSK / High



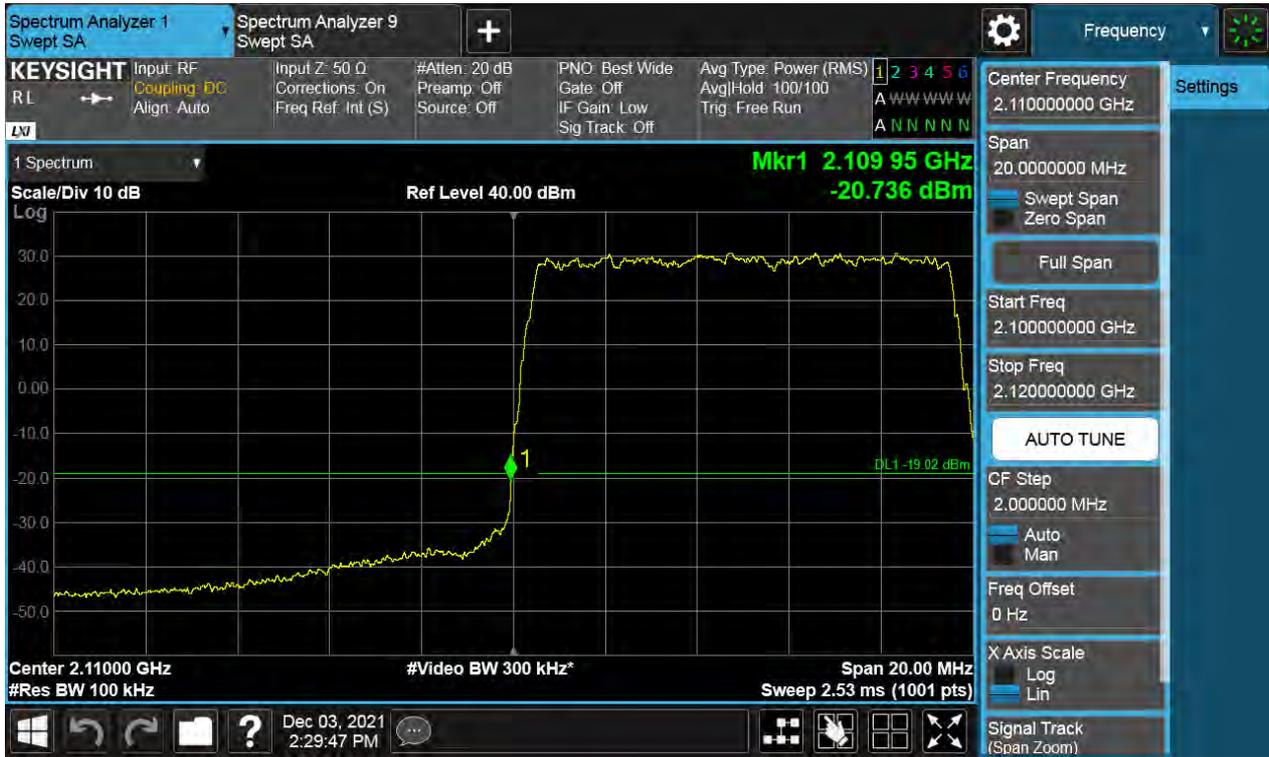
Antenna 0 / (2 Port) B66 DSS 10 MHz 5to5 1 Carrier / 256QAM / Low



Antenna 1 / (2 Port) B66 DSS 10 MHz 5to5 1 Carrier / QPSK / High

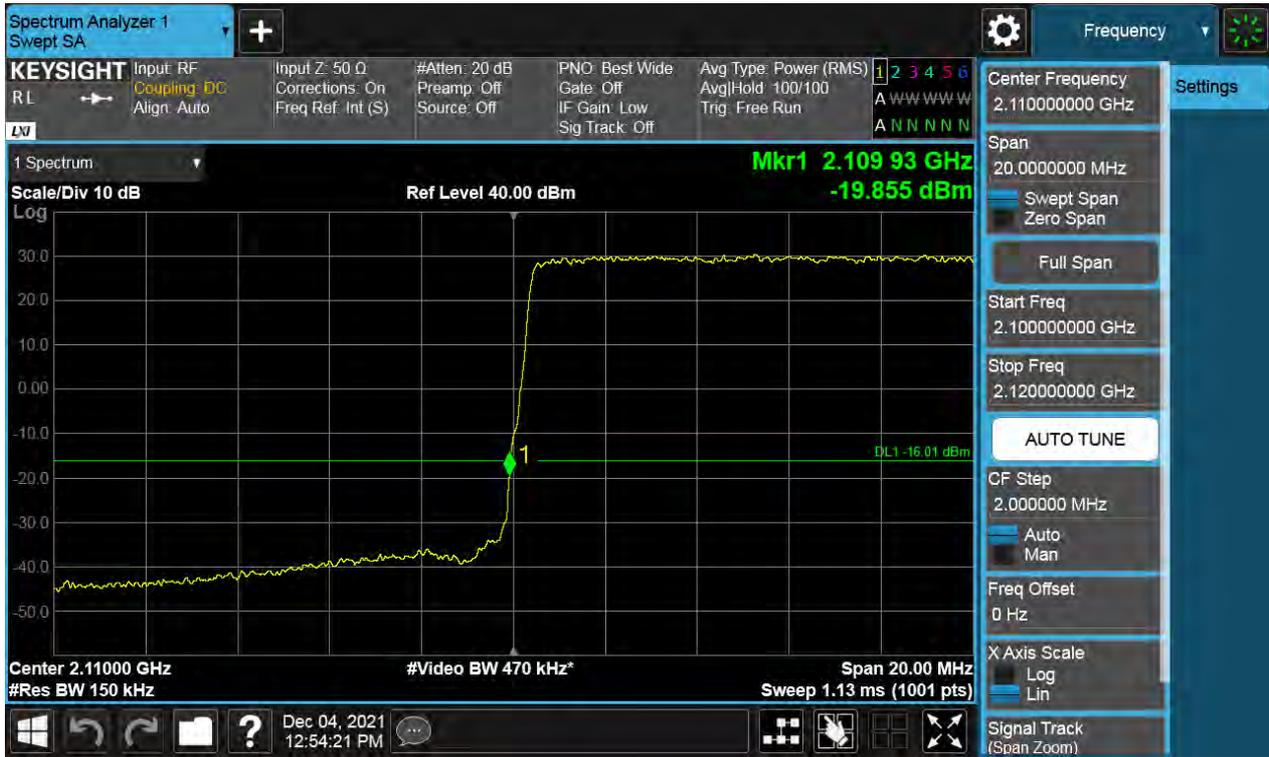


Antenna 0 / (2 Port) B66 DSS 10 MHz 9to1 1 Carrier / 16QAM / Low

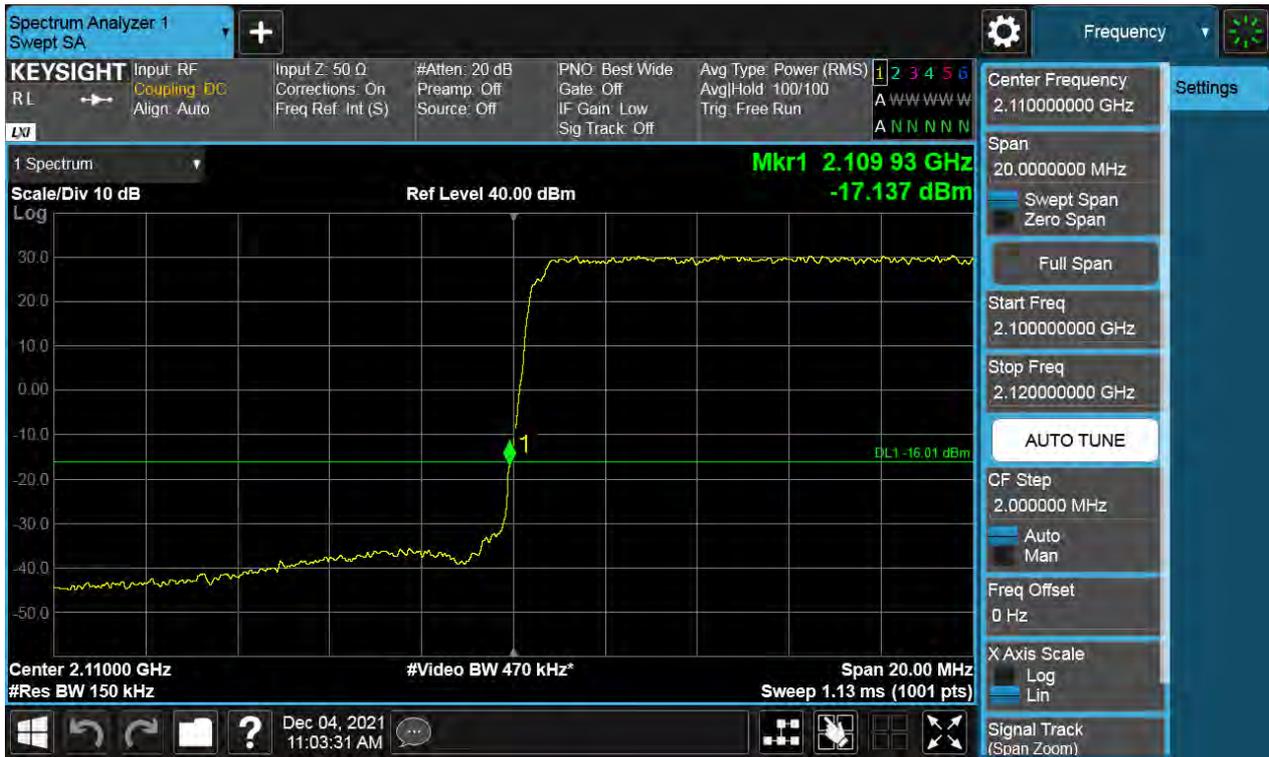


Antenna 0 / (2 Port) B66 DSS 10 MHz 9to1 1 Carrier / 16QAM / High



**Antenna 0 / (2 Port) B66 DSS 15 MHz 2to8 1 Carrier / QPSK / Low**

**Antenna 1 / (2 Port) B66 DSS 15 MHz 2to8 1 Carrier / 16QAM / High**

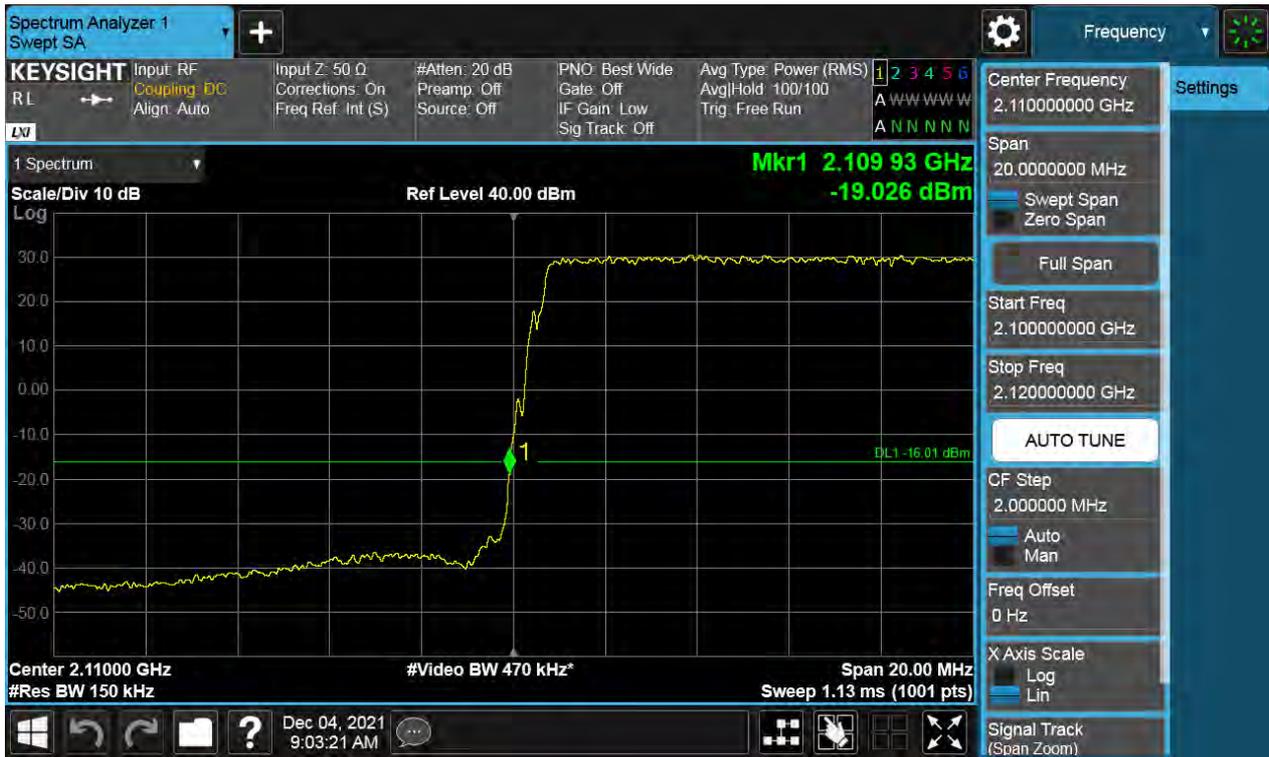

Antenna 0 / (2 Port) B66 DSS 15 MHz 5to5 1 Carrier / 64QAM / Low



Antenna 0 / (2 Port) B66 DSS 15 MHz 5to5 1 Carrier / 16QAM / High



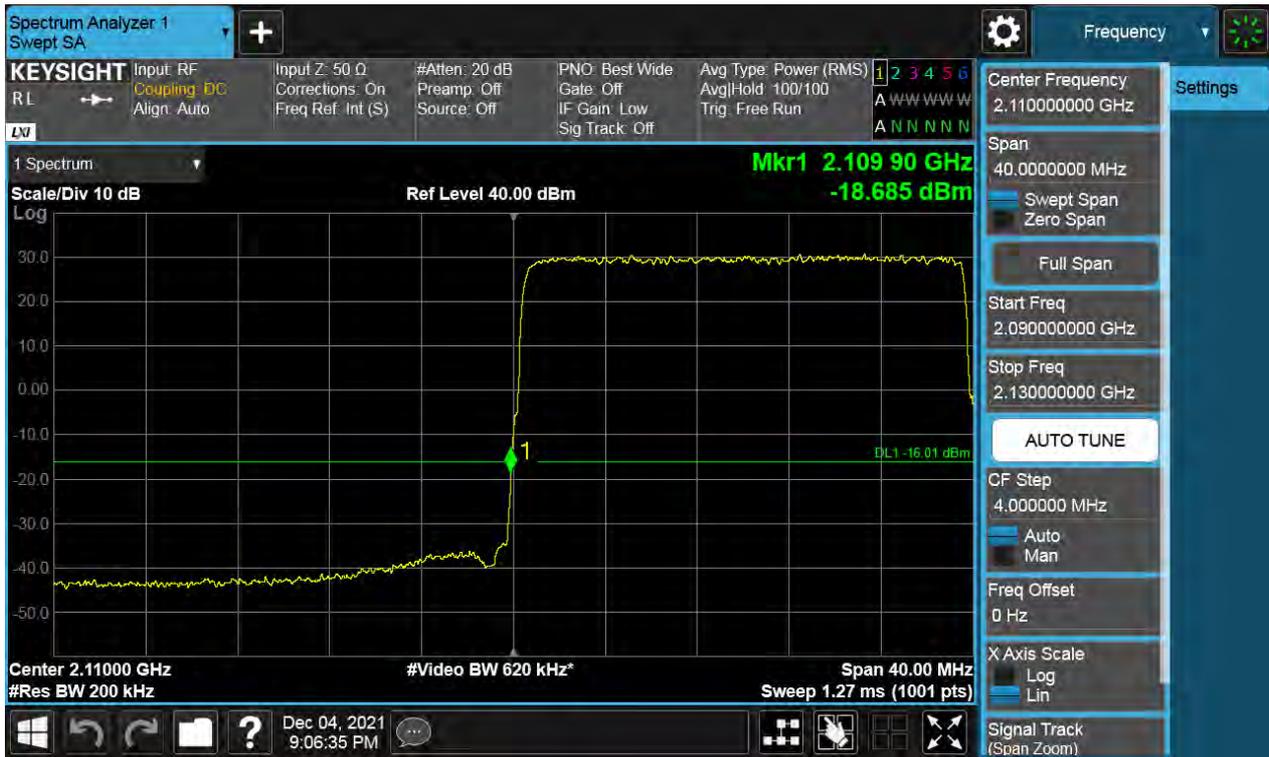
Antenna 0 / (2 Port) B66 DSS 15 MHz 9to1 1 Carrier / 256QAM / Low



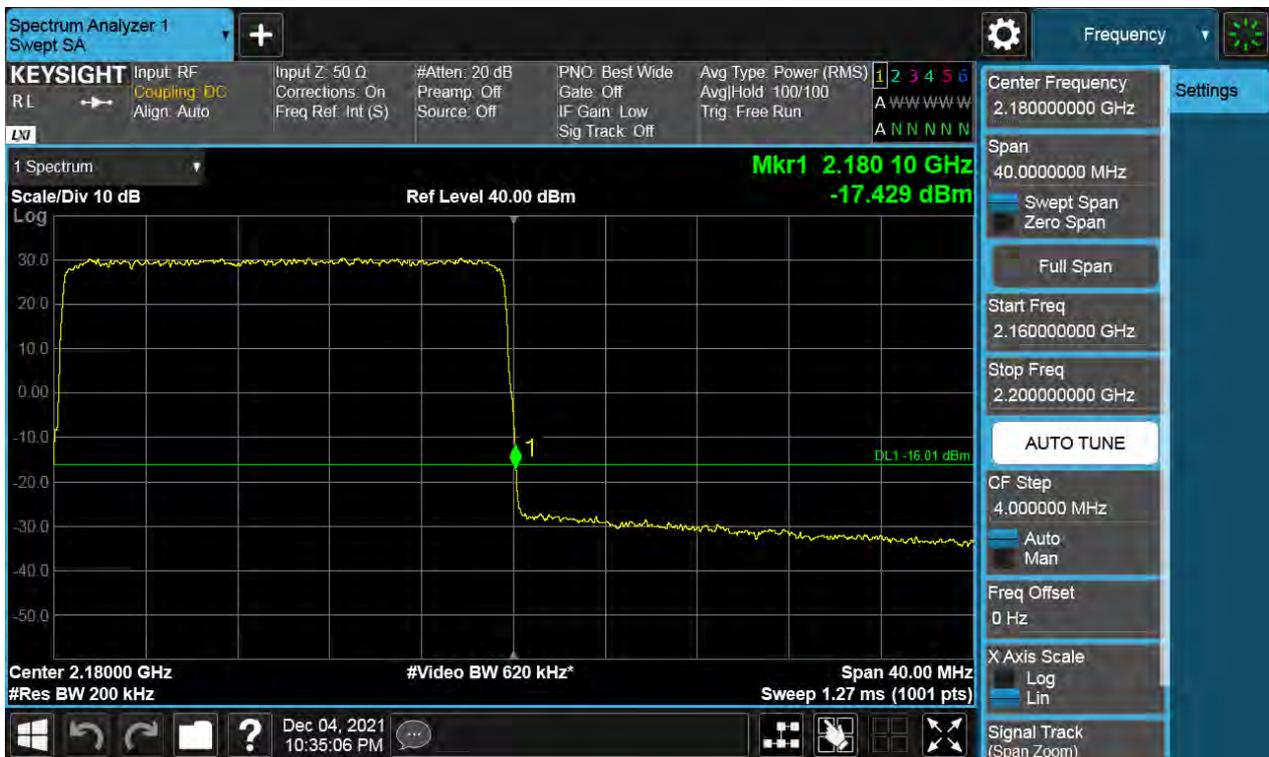
Antenna 1 / (2 Port) B66 DSS 15 MHz 9to1 1 Carrier / 16QAM / High



Antenna 0 / (2 Port) B66 DSS 20 MHz 2to8 1 Carrier / 256QAM / Low



Antenna 0 / (2 Port) B66 DSS 20 MHz 2to8 1 Carrier / 256QAM / High



Antenna 0 / (2 Port) B66 DSS 20 MHz 5to5 1 Carrier / 16QAM / Low



Antenna 1 / (2 Port) B66 DSS 20 MHz 5to5 1 Carrier / 256QAM / High

