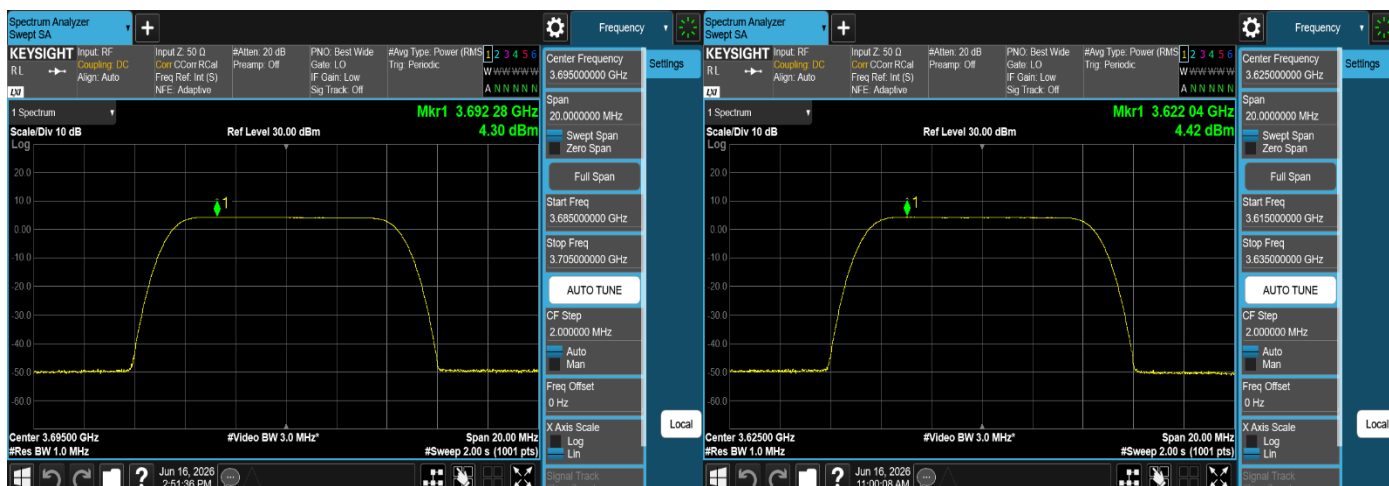




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Plot 8-17. Power Spectral Density Plot
(NR_n48_1C_10M_QPSK - High Channel, Port 41)

Plot 8-18. Power Spectral Density Plot
(NR_n48_1C_10M_16QAM - Middle Channel, Port 61)



Plot 8-19. Power Spectral Density Plot
(NR_n48_2C_10M+20M_QPSK - Middle Channel, Port 44)

Plot 8-20. Power Spectral Density Plot
(NR_n48_2C_10M+20M_16QAM - Low Channel, Port 53)



Plot 8-21. Power Spectral Density Plot
(NR_n48_3C_10M+20M+20M_QPSK - Middle Channel, Port 37)

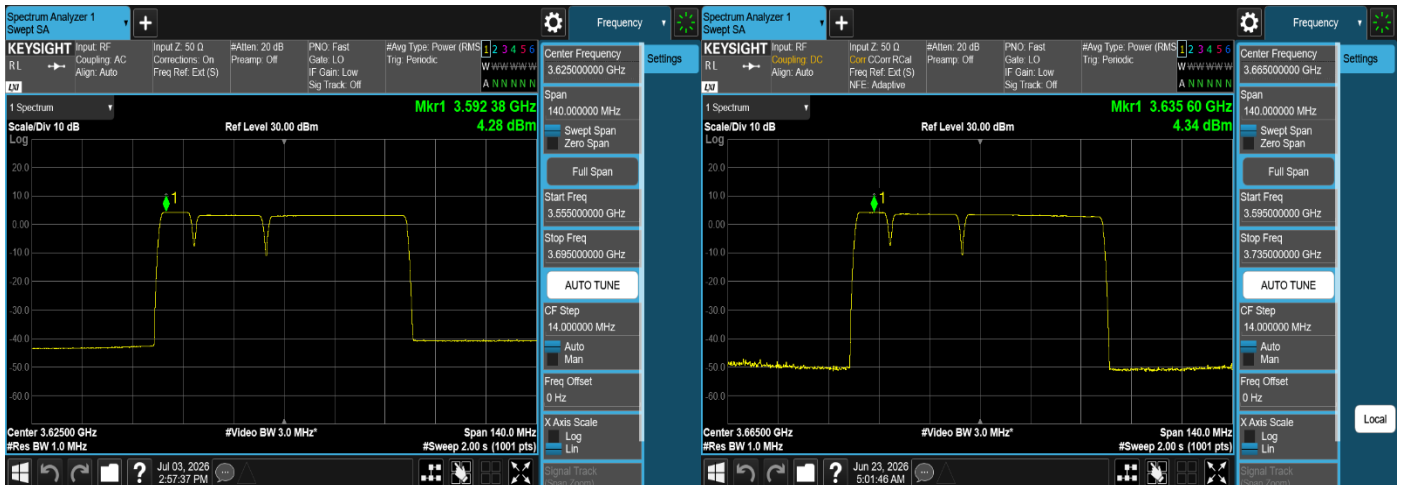
Plot 8-22. Power Spectral Density Plot
(NR_n48_3C_10M+20M+20M_16QAM - Middle Channel, Port 61)



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8.5 Peak To Average Ratio

Test Overview

The peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 5.7

ANSI C63.26-2015 – Section 5.2.3.4

Test Setting

The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The spectrum analyzer settings were as follows:

1. The signal analyzer's CCDF function is enabled.
2. Frequency = carrier center frequency
3. Measurement BW $\geq$ OBW or specified reference bandwidth
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms.

Test Setup

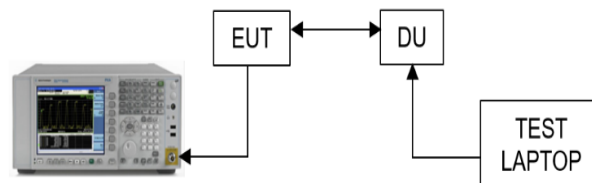


Figure 8-4. Test Instrument & Measurement Setup

Limit

§ 96.41 (g)

The peak-to-average power ratio (PAPR) of any CBSD transmitter output power must not exceed 13 dB.

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Channel	Port	Peak To Average Power Ratio (PAPR) (dB)				Limit (dB)	Worst Margin (dB)
		QPSK	16QAM	64QAM	256QAM		
Low	Port 0	8.50	8.34	8.46	8.23	< 13	-3.99
	Port 1	8.58	8.57	8.62	8.22		
	Port 2	8.53	8.49	8.49	8.22		
	Port 3	8.50	8.32	8.13	8.29		
	Port 4	8.48	8.66	8.17	8.64		
	Port 5	8.56	8.24	8.33	8.58		
	Port 6	8.44	8.44	8.32	8.60		
	Port 7	8.48	8.24	8.39	8.54		
	Port 8	8.57	8.67	8.54	8.40		
	Port 9	8.43	8.44	8.38	8.20		
	Port 10	8.49	8.31	8.22	8.24		
	Port 11	8.52	8.68	8.13	8.23		
	Port 12	8.55	8.28	8.29	8.61		
	Port 13	8.49	8.52	8.36	8.60		
	Port 14	8.49	8.57	8.42	8.79		
	Port 15	8.57	8.20	8.40	9.01		
	Port 16	8.52	8.55	8.52	8.84		
	Port 17	8.48	8.46	8.63	8.64		
	Port 18	8.51	8.43	8.10	8.91		
	Port 19	8.53	8.62	8.19	8.97		
	Port 20	8.48	8.43	8.60	9.00		
	Port 21	8.56	8.47	8.24	9.00		
	Port 22	8.43	8.44	8.17	8.56		
	Port 23	8.48	8.63	8.28	8.46		
	Port 24	8.54	8.56	8.26	8.67		
	Port 25	8.55	8.28	8.37	8.55		
	Port 26	8.48	8.69	8.51	8.37		
	Port 27	8.52	8.28	8.62	8.40		
	Port 28	8.56	8.40	8.64	8.36		
	Port 29	8.47	8.60	8.22	8.40		
	Port 30	8.46	8.30	8.16	8.26		
	Port 31	8.54	8.66	8.34	8.52		
	Port 32	8.45	8.40	8.38	8.61		
	Port 33	8.49	8.41	8.38	8.55		
	Port 34	8.53	8.67	8.45	8.56		
	Port 35	8.59	8.29	8.60	8.54		
	Port 36	8.49	8.56	8.16	8.78		
	Port 37	8.51	8.50	8.21	8.99		
	Port 38	8.54	8.22	8.16	8.43		
	Port 39	8.51	8.63	8.29	8.29		
	Port 40	8.50	8.33	8.19	8.37		
	Port 41	8.54	8.48	8.19	8.50		
	Port 42	8.57	8.48	8.28	8.31		
	Port 43	8.50	8.37	8.36	8.25		
	Port 44	8.53	8.60	8.38	8.50		
	Port 45	8.58	8.21	8.52	8.62		
	Port 46	8.49	8.51	8.61	8.57		
	Port 47	8.47	8.53	8.22	8.60		

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	Port 48	8.53	8.24	8.14	8.59		
	Port 49	8.58	8.62	8.20	8.54		
	Port 50	8.49	8.42	8.31	8.83		
	Port 51	8.50	8.43	8.41	9.01		
	Port 52	8.51	8.64	8.42	8.84		
	Port 53	8.57	8.36	8.44	9.00		
	Port 54	8.51	8.59	8.54	8.71		
	Port 55	8.50	8.52	8.13	8.55		
	Port 56	8.49	8.21	8.16	8.69		
	Port 57	8.56	8.58	8.18	8.55		
	Port 58	8.50	8.42	8.38	8.40		
	Port 59	8.53	8.45	8.42	8.36		
	Port 60	8.55	8.67	8.22	8.41		
	Port 61	8.43	8.37	8.22	8.34		
	Port 62	8.51	8.49	8.35	8.52		
Mid	Port 63	8.57	8.29	8.41	8.59	< 13	-4.27
	Port 0	8.57	8.65	8.18	8.48		
	Port 1	8.55	8.67	8.22	8.47		
	Port 2	8.51	8.78	8.36	8.24		
	Port 3	8.44	8.77	8.42	8.27		
	Port 4	8.52	8.77	8.37	8.26		
	Port 5	8.45	8.75	8.42	8.33		
	Port 6	8.55	8.76	8.51	8.53		
	Port 7	8.47	8.76	8.54	8.93		
	Port 8	8.57	8.75	8.50	8.92		
	Port 9	8.52	8.76	8.57	8.80		
	Port 10	8.40	8.61	8.49	8.47		
	Port 11	8.52	8.51	8.46	8.44		
	Port 12	8.56	8.65	8.35	8.45		
	Port 13	8.48	8.56	8.47	8.44		
	Port 14	8.59	8.34	8.32	8.35		
	Port 15	8.68	8.30	8.27	8.23		
	Port 16	8.58	8.24	8.19	8.31		
	Port 17	8.54	8.28	8.17	8.38		
	Port 18	8.68	8.25	8.22	8.30		
	Port 19	8.58	8.22	8.23	8.36		
	Port 20	8.52	8.36	8.33	8.67		
	Port 21	8.48	8.37	8.40	8.87		
	Port 22	8.55	8.40	8.23	8.60		
	Port 23	8.53	8.35	8.32	8.85		
	Port 24	8.56	8.44	8.55	8.80		
	Port 25	8.51	8.52	8.61	8.63		
	Port 26	8.47	8.33	8.49	8.78		
	Port 27	8.53	8.35	8.55	8.28		
	Port 28	8.35	8.56	8.66	8.36		
	Port 29	8.42	8.66	8.64	8.42		
	Port 30	8.57	8.46	8.68	8.37		
	Port 31	8.57	8.53	8.63	8.41		
	Port 32	8.56	8.53	8.64	8.44		
	Port 33	8.49	8.61	8.63	8.70		



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	Port 34	8.62	8.70	8.49	8.90		
	Port 35	8.66	8.73	8.48	8.88		
	Port 36	8.59	8.68	8.50	8.90		
	Port 37	8.66	8.72	8.48	8.76		
	Port 38	8.54	8.74	8.40	8.86		
	Port 39	8.54	8.73	8.36	8.91		
	Port 40	8.63	8.75	8.44	8.88		
	Port 41	8.53	8.73	8.37	8.90		
	Port 42	8.53	8.56	8.43	8.65		
	Port 43	8.50	8.49	8.39	8.49		
	Port 44	8.54	8.60	8.45	8.61		
	Port 45	8.53	8.51	8.43	8.46		
	Port 46	8.56	8.32	8.23	8.41		
	Port 47	8.55	8.29	8.24	8.48		
	Port 48	8.67	8.22	8.18	8.29		
	Port 49	8.53	8.28	8.21	8.23		
	Port 50	8.67	8.27	8.65	8.35		
	Port 51	8.73	8.24	8.63	8.30		
	Port 52	8.52	8.34	8.48	8.32		
	Port 53	8.57	8.40	8.44	8.36		
	Port 54	8.56	8.31	8.50	8.33		
	Port 55	8.56	8.32	8.50	8.37		
	Port 56	8.69	8.29	8.45	8.84		
	Port 57	8.67	8.29	8.50	8.91		
	Port 58	8.60	8.35	8.38	8.92		
	Port 59	8.63	8.34	8.38	8.91		
	Port 60	8.55	8.31	8.34	8.60		
	Port 61	8.52	8.31	8.27	8.46		
	Port 62	8.65	8.39	8.41	8.65		
	Port 63	8.57	8.35	8.39	8.52		
High	Port 0	8.53	8.45	8.49	8.72	< 13	-4.03
	Port 1	8.40	8.75	8.37	8.33		
	Port 2	8.32	8.54	8.14	8.26		
	Port 3	8.47	8.32	8.41	8.49		
	Port 4	8.45	8.34	8.52	8.95		
	Port 5	8.56	8.46	8.40	8.37		
	Port 6	8.37	8.77	8.09	8.27		
	Port 7	8.46	8.50	8.42	8.50		
	Port 8	8.42	8.34	8.55	8.96		
	Port 9	8.40	8.39	8.34	8.55		
	Port 10	8.67	8.61	8.10	8.33		
	Port 11	8.64	8.77	8.43	8.38		
	Port 12	8.68	8.61	8.53	8.71		
	Port 13	8.63	8.32	8.36	8.90		
	Port 14	8.54	8.45	8.10	8.45		
	Port 15	8.43	8.66	8.45	8.26		
	Port 16	8.53	8.67	8.45	8.47		
	Port 17	8.46	8.34	8.30	8.52		
	Port 18	8.54	8.50	8.12	8.66		
	Port 19	8.51	8.77	8.41	8.28		

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Port 20	8.37	8.62	8.43	8.25
Port 21	8.55	8.73	8.41	8.48
Port 22	8.33	8.66	8.31	8.86
Port 23	8.51	8.32	8.11	8.36
Port 24	8.42	8.38	8.56	8.30
Port 25	8.42	8.65	8.37	8.46
Port 26	8.37	8.74	8.32	8.93
Port 27	8.48	8.60	8.14	8.58
Port 28	8.68	8.32	8.56	8.23
Port 29	8.64	8.38	8.37	8.48
Port 30	8.66	8.48	8.34	8.96
Port 31	8.67	8.73	8.57	8.42
Port 32	8.64	8.40	8.32	8.24
Port 33	8.53	8.35	8.12	8.48
Port 34	8.48	8.45	8.51	8.71
Port 35	8.40	8.71	8.48	8.89
Port 36	8.43	8.72	8.32	8.32
Port 37	8.41	8.39	8.13	8.44
Port 38	8.46	8.44	8.52	8.49
Port 39	8.43	8.46	8.48	8.94
Port 40	8.62	8.67	8.30	8.37
Port 41	8.66	8.72	8.13	8.23
Port 42	8.54	8.32	8.50	8.49
Port 43	8.44	8.45	8.48	8.68
Port 44	8.46	8.39	8.31	8.67
Port 45	8.45	8.69	8.12	8.32
Port 46	8.55	8.57	8.49	8.25
Port 47	8.49	8.32	8.48	8.93
Port 48	8.37	8.38	8.29	8.48
Port 49	8.36	8.65	8.56	8.28
Port 50	8.38	8.73	8.54	8.50
Port 51	8.39	8.30	8.31	8.97
Port 52	8.56	8.50	8.29	8.88
Port 53	8.38	8.74	8.55	8.35
Port 54	8.50	8.72	8.53	8.49
Port 55	8.57	8.41	8.33	8.69
Port 56	8.45	8.43	8.35	8.95
Port 57	8.42	8.56	8.56	8.53
Port 58	8.44	8.70	8.53	8.26
Port 59	8.45	8.72	8.33	8.49
Port 60	8.66	8.29	8.32	8.65
Port 61	8.63	8.44	8.55	8.92
Port 62	8.49	8.38	8.50	8.26
Port 63	8.55	8.64	8.12	8.49

Table 8-14 PAPR Test Result Table (NR_n48_1C_10M)



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Channel	Port	Peak To Average Power Ratio (dB)		Limit (dB)	Worst Margin (dB)
		QPSK	16QAM		
Low	Port 36	8.70	8.39	< 13	-4.30
Mid	Port 44	8.74	8.64		-4.26
High	Port 56	8.63	8.57		-4.37

Table 8-15 PAPR Test Result Table (NR_n48_2C_10M+20M)

Channel	Port	Peak To Average Power Ratio (dB)		Limit (dB)	Worst Margin (dB)
		QPSK	16QAM		
Low	Port 26	8.61	8.33	< 13	-4.39
Mid	Port 37	8.59	8.51		-4.41
High	Port 61	8.49	8.56		-4.44

Table 8-16 PAPR Test Result Table (NR_n48_3C_10M+20M+20M)

Channel	Port	Peak To Average Power Ratio (dB)		Limit (dB)	Worst Margin (dB)
		QPSK	16QAM		
Low	Port 32	8.45	8.28	< 13	-4.55
Mid	Port 52	8.55	8.44		-4.45
High	Port 61	8.64	8.43		-4.36

Table 8-17 PAPR Test Result Table (NR_n48_3C_10M+20M+40M)



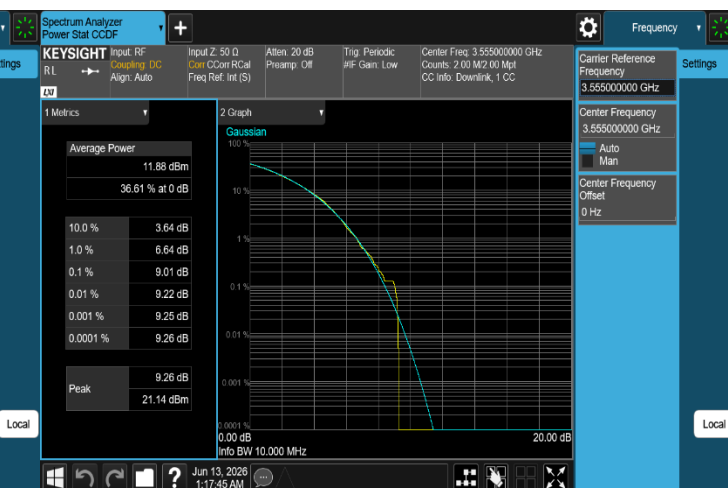
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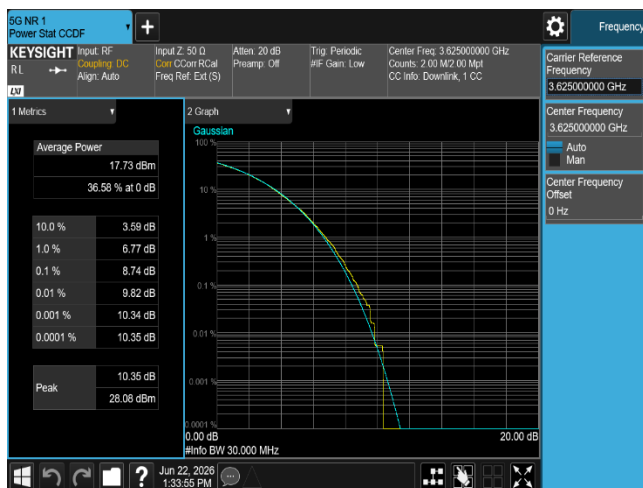
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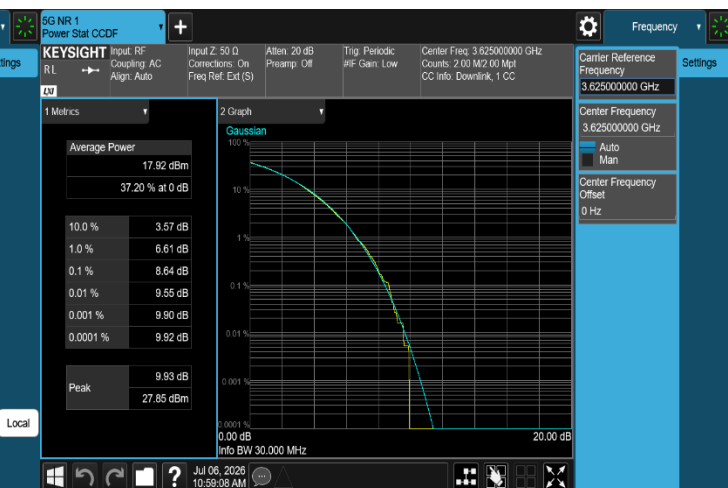
Plot 8-25. Peak-to-Average Power Ratio Plot
(NR_n48_1C_10M_QPSK - Middle Channel, Port 51)



Plot 8-26. Peak-to-Average Power Ratio Plot
(NR_n48_1C_10M_256QAM - Low Channel, Port 15)



Plot 8-27. Peak-to-Average Power Ratio Plot
(NR_n48_2C_10M+20M_QPSK - Middle Channel, Port 44)



Plot 8-28. Peak-to-Average Power Ratio Plot
(NR_n48_2C_10M+20M_16QAM - Middle Channel, Port 44)



Plot 8-29. Peak-to-Average Power Ratio Plot
(NR_n48_3C_10M+20M+20M_QPSK - Low Channel, Port 26)



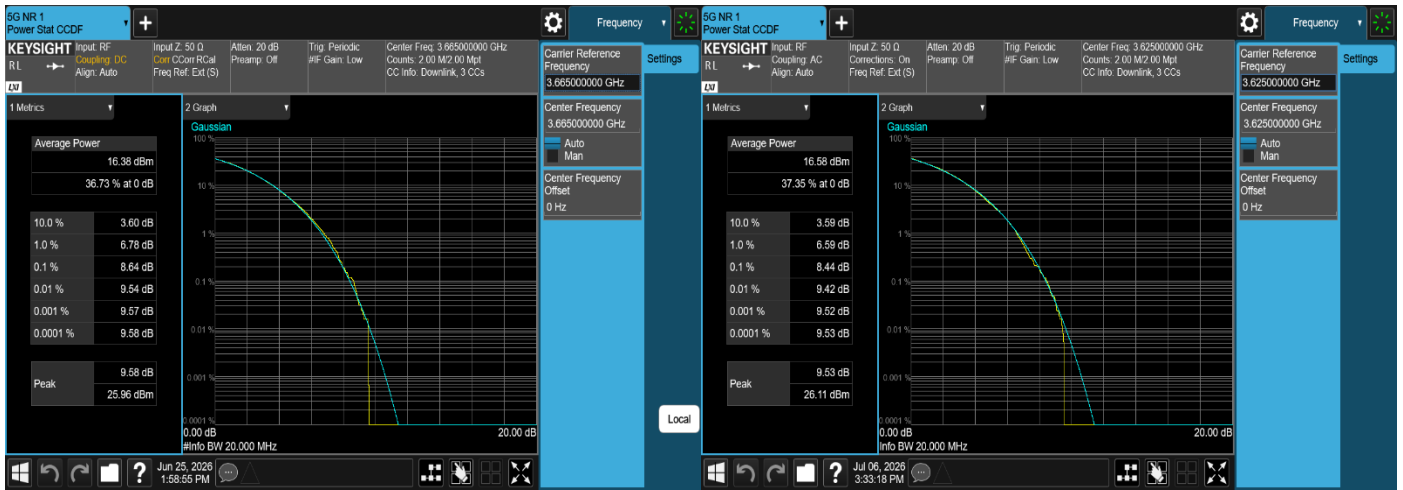
Plot 8-30. Peak-to-Average Power Ratio Plot
(NR_n48_3C_10M+20M+20M_16QAM - High Channel, Port 61)



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Plot 8-31. Peak-to-Average Power Ratio Plot
(NR_n48_3C_10M+20M+40M_QPSK – High Channel, Port 61)

Plot 8-32. Peak-to-Average Power Ratio Plot
(NR_n48_3C_10M+20M+40M_16QAM – Middle Channel, Port 52)

8.6 Channel Edge Emissions

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6

KDB 662911 D01 v02r01 – Section E)3) Out-of-Band and Spurious Emission Measurements

a) Absolute Emission Limits

iii) Measure and sum spectral maxima across the outputs as described in section E)2)b).

ANSI C63.26-2015 – Section 5.7.3

Test Setting

1. Start and stop frequency were set such that the channel edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW: 1 MHz (the reference bandwidth)
4. VBW $\geq 3 \times$ RBW
5. Detector = RMS
6. Number of sweep points $\geq 2 \times$ Span/RBW
7. Trace mode = trace average
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

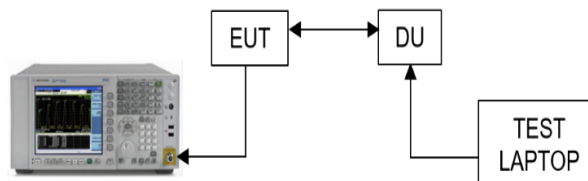


Figure 8-5. Test Instrument & Measurement Setup

Limit § 96.41 (e)

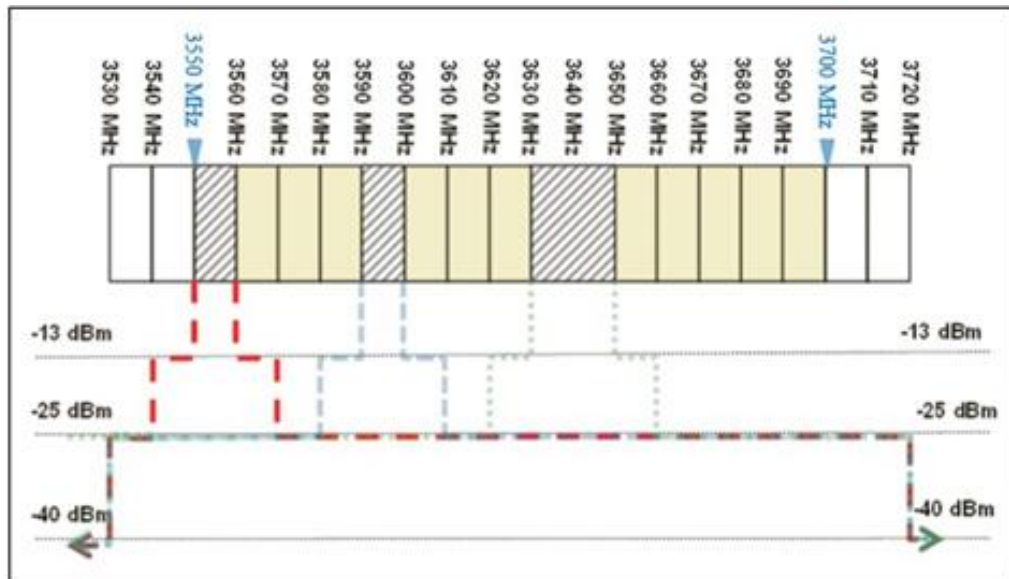


Figure 1—Emission limits for example SAS-assigned channels

- Within 0 MHz to 10 MHz above and below the assigned channel ≤ -13 dBm/MHz
- Greater than 10 MHz above and below the assigned channel ≤ -25 dBm/MHz
- Any emission below 3530 MHz and above 3720 MHz ≤ -40 dBm/MHz (The results are recorded in Section 8.7.)

Test Notes

1. 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 authorized frequency channel, a resolution bandwidth of no less than one percent of the fundamental emission bandwidth 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 reference bandwidth (*i.e.*, 1 MHz or 1 percent of emission bandwidth, as specified).
2. Detect with a margin of under 1dB to limit, the integration method was performed using the spectrum analyzer's band power functions according to ANSI C63.26-2015 – Section 5.7. The integration value was set to a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter.
3. Narrower RBW parameter is applied according to Section 5.7 of ANSI C63.26-2015 for some edge channels due to improving measurement accuracy. RBW factor was applied as a correction factor to each data point of the Ext gain, as calculated below:

$$\text{RBW Factor} = 10 \cdot \log(\text{reference bandwidth} / \text{measurement bandwidth})$$

4. Consider the following factors for MIMO:
Measure and sum spectral maxima across the outputs as described in section E)2)b).
5. The output power per port (dBm/MHz or dBm) is converted to a linear value (mW). A summation of linear powers for all ports gives us the total MIMO Conducted Power (mW). We convert this back to logarithmic scale for further output power calculations.

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6. Sample Calculation for NR_n48_1C_QPSK – 3 530 to 3 540 MHz [Greater than 10 MHz]:
Let us assume the following numbers:

- a) Total 64T MIMO emission Power (dBm) as = 0.000082 mW
b)

	Factors	Value	Unit
Summed MIMO Conducted Power (linear sum)		0.000082	mW
Summed MIMO Conducted Power (dBm)	= $10 * \log (0.000082) =$	-40.86	dBm

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Channel	Modulation	Port	Measured Range (MHz)			
			3530 to 3540MHz [Greater than 10 MHz]	3540 to 3550MHz [Within 0 MHz to 10 MHz]	3560 to 3570MHz [Within 0 MHz to 10 MHz]	3570 to 3720MHz [Greater than 10 MHz]
Low	QPSK	Port 0	-59.95	-48.02	-45.21	-53.41
		Port 1	-59.85	-47.67	-47.83	-52.83
		Port 2	-61.52	-48.72	-48.35	-53.20
		Port 3	-59.60	-46.96	-48.25	-52.93
		Port 4	-58.62	-45.72	-49.42	-51.51
		Port 5	-57.41	-49.04	-46.71	-52.10
		Port 6	-58.15	-47.68	-47.02	-53.66
		Port 7	-58.15	-49.15	-45.76	-52.82
		Port 8	-60.33	-49.80	-46.47	-51.83
		Port 9	-58.88	-47.72	-47.26	-53.05
		Port 10	-59.53	-49.34	-47.00	-53.65
		Port 11	-58.45	-47.15	-48.38	-53.16
		Port 12	-58.33	-48.85	-46.62	-51.59
		Port 13	-58.23	-47.49	-47.43	-52.09
		Port 14	-59.67	-48.31	-45.58	-52.61
		Port 15	-57.98	-47.87	-47.07	-54.30
		Port 16	-60.06	-46.83	-48.51	-51.45
		Port 17	-57.52	-45.86	-46.31	-52.91
		Port 18	-59.94	-47.74	-47.98	-53.01
		Port 19	-59.09	-47.02	-46.87	-51.66
		Port 20	-61.83	-48.14	-47.46	-52.27
		Port 21	-57.41	-46.54	-47.60	-52.25
		Port 22	-59.35	-47.14	-46.35	-52.55
		Port 23	-58.51	-48.44	-47.57	-53.16
		Port 24	-62.01	-48.63	-45.35	-53.03
		Port 25	-57.38	-48.14	-46.87	-52.32
		Port 26	-59.40	-49.03	-46.80	-51.84
		Port 27	-57.99	-48.83	-47.22	-52.28
		Port 28	-58.73	-49.09	-46.76	-52.42
		Port 29	-57.58	-47.68	-45.71	-52.21
		Port 30	-62.57	-47.61	-46.86	-52.53
		Port 31	-58.95	-50.05	-46.12	-52.17
		Port 32	-58.39	-49.00	-46.60	-50.58
		Port 33	-59.02	-47.36	-46.83	-52.31
		Port 34	-57.95	-48.16	-45.54	-52.02
		Port 35	-57.82	-50.57	-46.67	-52.11
		Port 36	-58.42	-49.27	-47.78	-52.30
		Port 37	-58.87	-47.60	-44.68	-51.58
		Port 38	-60.08	-49.87	-46.12	-52.71
		Port 39	-60.84	-49.60	-46.86	-53.60
		Port 40	-59.27	-49.40	-48.41	-53.70
		Port 41	-58.46	-47.57	-46.38	-51.47
		Port 42	-60.08	-48.93	-46.91	-52.23
		Port 43	-58.22	-48.93	-46.31	-52.99
		Port 44	-58.31	-47.92	-46.69	-50.85



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		Port 45	-59.23	-49.81	-47.39	-53.15
		Port 46	-59.08	-48.28	-47.81	-52.33
		Port 47	-58.54	-48.96	-45.78	-52.34
		Port 48	-58.84	-49.02	-46.49	-52.55
		Port 49	-57.80	-46.29	-46.47	-51.77
		Port 50	-59.47	-47.89	-46.71	-53.31
		Port 51	-58.30	-47.18	-44.21	-51.55
		Port 52	-58.81	-47.10	-46.22	-52.81
		Port 53	-58.58	-47.92	-46.06	-52.54
		Port 54	-59.98	-48.37	-46.70	-52.36
		Port 55	-57.90	-48.41	-46.03	-53.07
		Port 56	-59.86	-49.66	-46.53	-53.04
		Port 57	-59.58	-48.90	-47.85	-53.05
		Port 58	-59.85	-50.32	-46.56	-53.03
		Port 59	-58.34	-49.33	-47.66	-53.23
		Port 60	-59.85	-48.28	-45.76	-52.83
		Port 61	-57.51	-48.77	-46.84	-51.98
		Port 62	-59.99	-48.50	-46.38	-52.27
		Port 63	-59.47	-50.69	-47.30	-54.06
		Sum of data	-40.86	-30.15	-28.64	-34.42
		Limit (dBm)	-25.00	-13.00	-13.00	-25.00
		Margin(dB)	-15.86	-17.15	-15.64	-9.42
Channel	Modulation	Port	Measured Range (MHz)			
			3530 to 3540MHz [Greater than 10 MHz]	3540 to 3550MHz [Within 0 MHz to 10 MHz]	3560 to 3570MHz [Within 0 MHz to 10 MHz]	3570 to 3720MHz [Greater than 10 MHz]
Low	16QAM	Port 0	-59.29	-48.63	-47.64	-53.18
		Port 1	-59.43	-47.83	-45.62	-52.83
		Port 2	-60.72	-47.61	-45.12	-52.21
		Port 3	-57.79	-48.97	-47.74	-53.84
		Port 4	-58.73	-46.06	-46.92	-52.39
		Port 5	-57.58	-47.59	-46.52	-51.59
		Port 6	-58.36	-48.66	-46.65	-54.11
		Port 7	-58.76	-46.98	-46.46	-53.41
		Port 8	-60.95	-48.27	-46.58	-52.99
		Port 9	-58.64	-46.34	-46.71	-53.05
		Port 10	-59.22	-47.24	-46.70	-52.58
		Port 11	-58.77	-45.46	-45.54	-52.73
		Port 12	-58.77	-48.46	-47.17	-52.65
		Port 13	-58.91	-47.23	-46.73	-52.86
		Port 14	-59.84	-48.43	-45.46	-53.14
		Port 15	-59.05	-47.35	-45.94	-51.86
		Port 16	-59.45	-46.62	-47.01	-51.89
		Port 17	-58.51	-48.05	-46.06	-53.52
		Port 18	-57.06	-47.70	-46.74	-52.88
		Port 19	-58.79	-47.52	-46.18	-52.38
		Port 20	-61.95	-48.20	-47.33	-53.09
		Port 21	-59.11	-48.23	-46.98	-52.89
		Port 22	-60.81	-46.41	-47.30	-52.38

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		Port 23	-59.31	-46.15	-45.82	-53.06
		Port 24	-61.87	-48.44	-48.58	-52.83
		Port 25	-58.52	-48.09	-46.85	-52.75
		Port 26	-59.58	-47.66	-47.34	-53.38
		Port 27	-56.55	-45.90	-46.58	-53.05
		Port 28	-58.57	-49.05	-47.02	-52.97
		Port 29	-58.18	-46.60	-45.66	-53.12
		Port 30	-64.32	-47.89	-48.44	-52.66
		Port 31	-59.44	-47.40	-46.27	-51.53
		Port 32	-58.43	-46.28	-47.14	-51.38
		Port 33	-58.23	-47.12	-46.44	-52.67
		Port 34	-58.88	-46.05	-47.95	-51.71
		Port 35	-57.84	-49.13	-46.51	-52.28
		Port 36	-59.22	-46.23	-46.42	-52.59
		Port 37	-59.55	-47.57	-45.85	-51.60
		Port 38	-60.57	-48.36	-45.33	-54.00
		Port 39	-61.59	-47.80	-46.13	-52.86
		Port 40	-58.96	-49.11	-48.20	-52.40
		Port 41	-58.30	-45.31	-46.75	-51.55
		Port 42	-60.10	-46.23	-47.12	-53.25
		Port 43	-58.19	-46.87	-46.25	-51.96
		Port 44	-58.45	-47.13	-47.06	-52.61
		Port 45	-59.68	-47.98	-48.31	-51.99
		Port 46	-59.76	-47.75	-46.77	-53.35
		Port 47	-59.57	-46.25	-47.41	-55.05
		Port 48	-58.98	-46.70	-46.87	-51.99
		Port 49	-58.21	-46.44	-45.48	-51.90
		Port 50	-59.23	-46.82	-45.98	-51.84
		Port 51	-57.73	-47.50	-46.38	-51.69
		Port 52	-60.12	-47.12	-46.50	-53.54
		Port 53	-59.01	-47.39	-48.87	-52.12
		Port 54	-59.97	-48.24	-47.06	-52.91
		Port 55	-58.69	-45.73	-47.07	-52.33
		Port 56	-59.01	-47.95	-45.80	-52.05
		Port 57	-60.40	-47.90	-47.31	-52.55
		Port 58	-60.62	-46.87	-47.84	-53.45
		Port 59	-59.08	-48.16	-46.01	-51.94
		Port 60	-59.32	-49.24	-47.48	-51.70
		Port 61	-58.76	-45.81	-46.67	-52.23
		Port 62	-60.74	-47.64	-47.17	-53.22
		Port 63	-60.09	-48.04	-47.46	-53.93
		Sum of data	-41.06	-29.23	-28.63	-34.54
		Limit (dBm)	-25.00	-13.00	-13.00	-25.00
		Margin(dB)	-16.06	-16.23	-15.63	-9.54
Channel	Modulation	Port	Measured Range (MHz)			
			3530 to 3540MHz [Greater than 10 MHz]	3540 to 3550MHz [Within 0 MHz to 10 MHz]	3560 to 3570MHz [Within 0 MHz to 10 MHz]	3570 to 3720MHz [Greater than 10 MHz]
Low	64QAM	Port 0	-59.92	-47.85	-46.11	-52.92

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		Port 1	-58.81	-48.82	-47.90	-52.43
		Port 2	-60.11	-45.73	-47.10	-52.29
		Port 3	-58.82	-46.65	-45.78	-53.28
		Port 4	-58.58	-45.44	-48.32	-51.02
		Port 5	-58.51	-49.37	-45.20	-51.64
		Port 6	-58.51	-49.93	-48.74	-53.02
		Port 7	-58.95	-49.98	-47.49	-52.81
		Port 8	-60.91	-49.24	-47.96	-52.47
		Port 9	-59.60	-48.80	-48.22	-52.00
		Port 10	-59.73	-49.36	-47.60	-53.34
		Port 11	-57.00	-47.62	-48.16	-53.70
		Port 12	-58.86	-47.95	-47.45	-52.18
		Port 13	-59.35	-47.96	-46.72	-51.70
		Port 14	-59.90	-48.61	-47.15	-53.06
		Port 15	-59.14	-48.03	-47.92	-52.70
		Port 16	-59.75	-48.90	-47.37	-51.85
		Port 17	-58.20	-47.09	-45.64	-52.66
		Port 18	-61.17	-48.88	-47.44	-51.96
		Port 19	-59.20	-47.97	-46.62	-52.94
		Port 20	-61.13	-48.49	-47.54	-52.38
		Port 21	-59.17	-48.57	-47.40	-53.03
		Port 22	-59.40	-48.48	-47.34	-52.95
		Port 23	-59.71	-48.32	-48.32	-52.52
		Port 24	-61.12	-49.68	-47.48	-52.57
		Port 25	-58.78	-49.32	-46.39	-53.10
		Port 26	-59.88	-47.84	-46.75	-52.08
		Port 27	-58.80	-48.13	-47.97	-53.34
		Port 28	-58.97	-47.96	-47.33	-52.78
		Port 29	-58.61	-47.74	-47.59	-53.64
		Port 30	-62.87	-49.24	-46.63	-52.60
		Port 31	-59.05	-48.64	-46.39	-51.88
		Port 32	-58.86	-47.96	-47.25	-51.01
		Port 33	-59.18	-48.54	-47.74	-52.85
		Port 34	-58.24	-48.19	-47.09	-51.48
		Port 35	-58.47	-48.86	-46.49	-51.48
		Port 36	-59.64	-48.70	-47.31	-51.87
		Port 37	-59.89	-48.83	-47.54	-51.71
		Port 38	-60.12	-47.65	-46.72	-52.52
		Port 39	-61.86	-49.06	-47.70	-53.15
		Port 40	-60.27	-48.90	-47.34	-52.09
		Port 41	-58.50	-48.01	-46.34	-52.08
		Port 42	-59.72	-48.50	-46.60	-52.62
		Port 43	-58.98	-48.59	-48.07	-52.34
		Port 44	-58.34	-47.61	-46.60	-51.33
		Port 45	-59.43	-49.49	-48.05	-52.78
		Port 46	-59.81	-49.52	-47.93	-53.23
		Port 47	-59.56	-48.07	-47.72	-52.46
		Port 48	-59.32	-48.74	-47.45	-52.62

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		Port 49	-58.17	-47.79	-46.58	-51.70
		Port 50	-58.87	-48.60	-47.06	-52.94
		Port 51	-58.47	-47.48	-46.48	-52.27
		Port 52	-60.09	-47.35	-45.92	-53.21
		Port 53	-59.07	-49.69	-47.00	-51.92
		Port 54	-60.61	-48.30	-46.75	-52.66
		Port 55	-58.66	-48.58	-47.45	-53.40
		Port 56	-58.47	-46.90	-45.67	-53.16
		Port 57	-59.42	-48.30	-48.80	-52.74
		Port 58	-59.47	-49.52	-48.63	-54.44
		Port 59	-58.96	-47.67	-47.02	-53.05
		Port 60	-59.68	-47.31	-47.70	-53.23
		Port 61	-58.50	-47.16	-46.28	-52.40
		Port 62	-60.38	-47.90	-47.19	-51.93
		Port 63	-60.67	-47.38	-46.35	-53.04
		Sum of data	-41.25	-30.15	-29.07	-34.43
		Limit (dBm)	-25.00	-13.00	-13.00	-25.00
		Margin(dB)	-16.25	-17.15	-16.07	-9.43
Channel	Modulation	Port	Measured Range (MHz)			
			3530 to 3540MHz [Greater than 10 MHz]	3540 to 3550MHz [Within 0 MHz to 10 MHz]	3560 to 3570MHz [Within 0 MHz to 10 MHz]	3570 to 3720MHz [Greater than 10 MHz]
Low	256QAM	Port 0	-60.25	-47.68	-47.58	-53.17
		Port 1	-59.72	-46.61	-46.44	-53.47
		Port 2	-61.01	-47.79	-45.29	-53.91
		Port 3	-59.97	-46.60	-47.23	-54.02
		Port 4	-58.83	-46.75	-47.36	-52.57
		Port 5	-58.81	-48.04	-46.96	-52.23
		Port 6	-58.61	-48.11	-46.52	-53.30
		Port 7	-59.21	-49.18	-47.03	-54.46
		Port 8	-60.48	-48.67	-47.70	-53.00
		Port 9	-59.30	-46.62	-47.55	-53.33
		Port 10	-59.38	-48.50	-47.62	-53.33
		Port 11	-59.05	-48.29	-47.91	-53.97
		Port 12	-59.30	-47.49	-46.89	-52.72
		Port 13	-59.52	-47.11	-47.12	-53.24
		Port 14	-59.66	-48.40	-46.93	-53.89
		Port 15	-59.78	-48.81	-47.87	-53.10
		Port 16	-60.05	-47.93	-47.35	-52.99
		Port 17	-57.63	-47.12	-45.43	-53.54
		Port 18	-60.97	-48.35	-47.10	-53.01
		Port 19	-58.62	-46.32	-47.14	-53.30
		Port 20	-62.02	-47.77	-47.12	-52.56
		Port 21	-59.42	-48.37	-46.79	-54.10
		Port 22	-59.82	-48.55	-47.01	-53.31
		Port 23	-59.38	-48.60	-47.12	-53.73
		Port 24	-62.16	-48.50	-47.86	-53.25
		Port 25	-58.90	-47.23	-46.80	-53.43
		Port 26	-60.41	-48.65	-47.47	-52.78

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		Port 27	-58.26	-47.37	-46.05	-52.84
		Port 28	-58.94	-46.87	-47.44	-53.12
		Port 29	-58.37	-46.63	-46.32	-52.32
		Port 30	-63.50	-49.02	-48.07	-53.74
		Port 31	-59.46	-46.81	-45.78	-52.35
		Port 32	-59.41	-46.79	-47.86	-52.05
		Port 33	-59.36	-48.90	-47.00	-52.91
		Port 34	-58.02	-47.68	-46.64	-52.10
		Port 35	-58.46	-48.78	-47.54	-52.23
		Port 36	-59.24	-46.18	-46.67	-52.23
		Port 37	-59.30	-48.44	-47.75	-52.23
		Port 38	-60.81	-49.13	-46.53	-52.62
		Port 39	-61.45	-48.92	-46.03	-53.02
		Port 40	-60.05	-47.88	-48.91	-53.12
		Port 41	-58.95	-46.83	-47.11	-52.84
		Port 42	-60.70	-46.89	-47.75	-53.38
		Port 43	-58.28	-47.55	-46.84	-51.83
		Port 44	-58.88	-46.51	-46.08	-51.79
		Port 45	-59.79	-48.07	-49.02	-53.15
		Port 46	-59.25	-46.77	-46.13	-53.54
		Port 47	-59.16	-48.05	-45.90	-52.62
		Port 48	-58.89	-47.63	-46.82	-52.56
		Port 49	-58.64	-47.91	-46.25	-52.49
		Port 50	-59.30	-48.86	-47.50	-53.10
		Port 51	-58.91	-48.39	-47.90	-51.99
		Port 52	-59.84	-48.73	-47.04	-53.47
		Port 53	-59.12	-46.50	-47.87	-52.09
		Port 54	-60.88	-47.64	-47.93	-52.59
		Port 55	-58.99	-47.38	-47.37	-53.73
		Port 56	-58.75	-47.47	-46.69	-52.36
		Port 57	-60.34	-46.97	-46.79	-53.59
		Port 58	-60.50	-48.98	-47.46	-52.32
		Port 59	-58.35	-47.99	-47.56	-51.68
		Port 60	-59.53	-49.22	-47.66	-52.99
		Port 61	-58.50	-46.67	-47.55	-53.59
		Port 62	-60.29	-47.63	-47.74	-52.80
		Port 63	-60.21	-48.76	-48.25	-53.24
		Sum of data	-41.40	-29.65	-29.02	-34.87
		Limit (dBm)	-25.00	-13.00	-13.00	-25.00
		Margin(dB)	-16.40	-16.65	-16.02	-9.87

Table 8-18 Channel Edge Test Result Table (NR_n48_1C_10M_Low Channel)

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Channel	Modulation	Port	Measured Range (MHz)			
			3530 to 3610MHz [Greater than 10 MHz]	3610 to 3620MHz [Within 0 MHz to 10 MHz]	3630 to 3640MHz [Within 0 MHz to 10 MHz]	3640 to 3720MHz [Greater than 10 MHz]
Mid	QPSK	Port 0	-53.93	-47.91	-47.45	-55.92
		Port 1	-53.35	-48.29	-47.46	-55.32
		Port 2	-54.34	-47.97	-48.38	-55.66
		Port 3	-53.96	-49.23	-48.70	-55.10
		Port 4	-52.40	-49.33	-47.46	-53.83
		Port 5	-52.81	-47.63	-47.35	-53.86
		Port 6	-53.89	-48.61	-48.26	-55.04
		Port 7	-53.63	-46.06	-47.05	-54.89
		Port 8	-52.14	-45.90	-47.50	-53.54
		Port 9	-53.41	-47.02	-47.58	-53.90
		Port 10	-52.24	-47.88	-47.77	-53.93
		Port 11	-54.49	-46.66	-46.60	-54.25
		Port 12	-53.17	-47.67	-46.63	-54.22
		Port 13	-53.01	-46.81	-48.11	-54.00
		Port 14	-54.54	-48.20	-47.42	-55.65
		Port 15	-54.45	-47.95	-47.66	-54.77
		Port 16	-51.72	-48.65	-47.94	-53.31
		Port 17	-53.38	-47.14	-47.73	-54.45
		Port 18	-54.21	-47.93	-49.10	-54.64
		Port 19	-54.12	-45.95	-48.82	-55.01
		Port 20	-54.20	-45.37	-47.58	-54.91
		Port 21	-53.76	-48.40	-48.29	-54.74
		Port 22	-54.70	-47.16	-48.20	-54.65
		Port 23	-54.10	-45.05	-47.59	-54.93
		Port 24	-52.26	-46.45	-47.26	-54.59
		Port 25	-53.42	-46.73	-47.04	-54.93
		Port 26	-54.55	-45.96	-48.10	-54.55
		Port 27	-54.17	-46.03	-48.07	-54.01
		Port 28	-53.03	-48.85	-46.49	-54.95
		Port 29	-53.31	-47.74	-48.03	-54.27
		Port 30	-53.15	-47.00	-47.36	-54.33
		Port 31	-53.79	-48.17	-48.12	-53.81
		Port 32	-51.73	-47.87	-48.86	-52.54
		Port 33	-53.27	-48.47	-46.76	-54.33
		Port 34	-52.25	-47.20	-48.87	-52.92
		Port 35	-52.62	-48.07	-47.67	-54.23
		Port 36	-51.95	-47.55	-47.50	-53.64
		Port 37	-52.12	-46.54	-48.35	-53.54
		Port 38	-54.02	-48.92	-48.13	-55.84
		Port 39	-54.38	-46.78	-47.35	-54.65
		Port 40	-53.06	-47.61	-48.11	-54.62
		Port 41	-51.72	-46.62	-47.67	-53.86
		Port 42	-54.08	-45.27	-48.89	-54.03
		Port 43	-53.61	-48.69	-48.12	-52.25
		Port 44	-52.27	-44.46	-47.84	-53.00

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		Port 45	-52.76	-49.06	-47.63	-55.51
		Port 46	-53.38	-46.77	-48.92	-54.85
		Port 47	-53.90	-47.81	-48.65	-54.70
		Port 48	-53.77	-47.52	-48.27	-54.81
		Port 49	-52.15	-46.93	-47.59	-53.16
		Port 50	-52.86	-46.73	-46.27	-54.00
		Port 51	-53.05	-45.72	-47.52	-54.47
		Port 52	-53.73	-46.36	-47.61	-54.53
		Port 53	-52.17	-50.16	-47.83	-53.39
		Port 54	-52.38	-48.01	-48.60	-53.81
		Port 55	-52.93	-48.81	-46.72	-54.05
		Port 56	-55.06	-47.94	-48.47	-55.82
		Port 57	-53.92	-44.41	-46.89	-54.73
		Port 58	-52.31	-47.62	-48.05	-53.17
		Port 59	-52.91	-46.79	-48.04	-54.49
		Port 60	-52.33	-49.30	-46.40	-53.32
		Port 61	-52.29	-47.42	-47.26	-53.78
		Port 62	-53.26	-47.43	-47.56	-54.01
		Port 63	-54.40	-46.94	-48.37	-55.22
		Sum of data	-35.14	-29.14	-29.67	-36.20
		Limit (dBm)	-25.00	-13.00	-13.00	-25.00
		Margin(dB)	-10.14	-16.14	-16.67	-11.20
Channel	Modulation	Port	Measured Range (MHz)			
			3530 to 3610MHz [Greater than 10 MHz]	3610 to 3620MHz [Within 0 MHz to 10 MHz]	3630 to 3640MHz [Within 0 MHz to 10 MHz]	3640 to 3720MHz [Greater than 10 MHz]
Mid	16QAM	Port 0	-53.29	-45.99	-49.14	-55.14
		Port 1	-53.60	-46.78	-47.55	-54.13
		Port 2	-53.56	-45.89	-48.79	-55.01
		Port 3	-54.89	-47.80	-46.98	-54.93
		Port 4	-52.53	-45.69	-47.22	-54.02
		Port 5	-52.01	-46.93	-46.85	-52.97
		Port 6	-52.78	-46.29	-47.93	-54.80
		Port 7	-53.89	-48.53	-48.12	-53.56
		Port 8	-53.32	-48.53	-46.98	-54.35
		Port 9	-53.15	-47.38	-47.58	-54.45
		Port 10	-53.42	-47.14	-48.37	-55.28
		Port 11	-53.86	-46.54	-48.23	-54.54
		Port 12	-53.90	-47.37	-47.33	-54.42
		Port 13	-51.97	-46.51	-47.84	-55.00
		Port 14	-53.15	-47.72	-48.03	-54.22
		Port 15	-53.65	-46.76	-48.82	-54.42
		Port 16	-51.62	-46.71	-47.95	-53.72
		Port 17	-53.45	-46.51	-48.31	-54.75
		Port 18	-54.10	-46.60	-47.48	-55.65
		Port 19	-53.49	-47.26	-47.59	-54.09
		Port 20	-52.68	-46.35	-48.86	-53.80
		Port 21	-53.61	-46.12	-48.22	-54.18
		Port 22	-53.64	-47.52	-48.99	-54.65



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		Port 23	-53.96	-46.89	-47.79	-55.56
		Port 24	-53.34	-45.65	-46.59	-54.26
		Port 25	-51.66	-47.77	-49.01	-55.55
		Port 26	-53.87	-48.42	-48.62	-55.36
		Port 27	-52.00	-46.31	-47.67	-54.65
		Port 28	-54.29	-47.33	-47.97	-53.91
		Port 29	-52.55	-45.57	-47.41	-54.96
		Port 30	-53.04	-46.86	-48.07	-54.30
		Port 31	-52.35	-48.66	-48.13	-54.84
		Port 32	-51.69	-47.94	-49.40	-53.17
		Port 33	-53.10	-48.41	-48.31	-54.96
		Port 34	-52.21	-47.05	-47.97	-53.31
		Port 35	-52.46	-48.23	-48.59	-54.24
		Port 36	-51.68	-45.05	-47.34	-53.12
		Port 37	-51.70	-47.62	-47.78	-54.02
		Port 38	-53.41	-48.87	-48.16	-54.78
		Port 39	-53.81	-47.41	-50.00	-55.82
		Port 40	-53.97	-45.39	-47.79	-53.86
		Port 41	-52.83	-46.03	-47.33	-54.45
		Port 42	-53.66	-48.99	-48.27	-54.38
		Port 43	-52.82	-46.89	-47.52	-53.28
		Port 44	-52.36	-44.50	-47.70	-53.26
		Port 45	-52.59	-49.29	-48.73	-54.99
		Port 46	-53.54	-47.36	-47.84	-54.15
		Port 47	-53.09	-49.62	-48.02	-55.04
		Port 48	-53.72	-47.68	-49.31	-54.13
		Port 49	-52.62	-47.65	-47.91	-53.51
		Port 50	-51.70	-48.12	-48.79	-54.38
		Port 51	-51.86	-46.87	-47.38	-54.10
		Port 52	-54.23	-47.91	-47.72	-54.97
		Port 53	-51.62	-46.24	-48.39	-53.39
		Port 54	-53.32	-46.38	-49.25	-54.46
		Port 55	-53.50	-46.84	-47.37	-55.27
		Port 56	-52.43	-46.60	-47.61	-54.05
		Port 57	-54.00	-46.91	-46.36	-54.63
		Port 58	-53.10	-48.13	-47.60	-54.15
		Port 59	-53.09	-45.38	-47.53	-55.47
		Port 60	-51.76	-46.96	-48.41	-54.93
		Port 61	-52.22	-44.53	-48.04	-53.40
		Port 62	-52.68	-47.50	-49.88	-54.30
		Port 63	-54.00	-46.91	-49.12	-55.42
		Sum of data	-34.88	-28.86	-29.94	-36.30
		Limit (dBm)	-25.00	-13.00	-13.00	-25.00
		Margin(dB)	-9.88	-15.86	-16.94	-11.30
Channel	Modulation	Port	Measured Range (MHz)			
			3530 to 3610MHz [Greater than 10 MHz]	3610 to 3620MHz [Within 0 MHz to 10 MHz]	3630 to 3640MHz [Within 0 MHz to 10 MHz]	3640 to 3720MHz [Greater than 10 MHz]
Mid	64QAM	Port 0	-53.57	-48.46	-48.11	-55.20

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		Port 1	-53.55	-48.12	-47.01	-55.53
		Port 2	-54.18	-45.53	-48.00	-54.54
		Port 3	-53.03	-49.82	-48.23	-54.26
		Port 4	-52.30	-47.09	-47.57	-54.46
		Port 5	-51.93	-47.59	-49.52	-54.35
		Port 6	-54.36	-45.15	-48.59	-55.33
		Port 7	-53.15	-46.64	-49.62	-54.49
		Port 8	-52.01	-47.80	-48.19	-54.64
		Port 9	-54.12	-46.57	-48.34	-55.17
		Port 10	-53.16	-47.03	-48.76	-55.65
		Port 11	-53.52	-47.17	-49.30	-54.88
		Port 12	-53.58	-46.74	-47.15	-54.08
		Port 13	-53.35	-46.97	-48.37	-54.24
		Port 14	-54.56	-47.34	-47.63	-55.64
		Port 15	-53.95	-47.06	-48.40	-55.48
		Port 16	-52.51	-47.31	-47.71	-53.57
		Port 17	-53.22	-47.09	-47.60	-54.77
		Port 18	-52.93	-45.62	-47.18	-54.79
		Port 19	-52.74	-46.54	-48.05	-54.49
		Port 20	-52.80	-46.31	-46.75	-54.49
		Port 21	-51.91	-45.45	-48.18	-54.78
		Port 22	-53.67	-46.62	-49.40	-55.87
		Port 23	-55.03	-46.21	-49.51	-54.51
		Port 24	-53.09	-48.24	-47.10	-54.62
		Port 25	-52.65	-48.52	-47.90	-54.59
		Port 26	-54.01	-47.62	-46.72	-55.48
		Port 27	-54.06	-46.49	-48.16	-55.21
		Port 28	-53.34	-46.10	-46.51	-54.81
		Port 29	-53.84	-47.12	-48.42	-54.00
		Port 30	-52.48	-47.41	-47.79	-54.69
		Port 31	-52.80	-46.98	-47.86	-54.08
		Port 32	-52.19	-45.52	-47.61	-53.23
		Port 33	-53.67	-49.04	-48.45	-54.81
		Port 34	-52.89	-45.37	-48.47	-53.77
		Port 35	-52.90	-48.09	-47.46	-54.69
		Port 36	-52.51	-45.69	-46.59	-54.46
		Port 37	-52.53	-46.98	-47.19	-54.16
		Port 38	-53.40	-45.52	-47.61	-55.89
		Port 39	-54.04	-46.62	-49.34	-55.14
		Port 40	-54.11	-47.43	-48.57	-54.02
		Port 41	-52.88	-48.02	-48.08	-54.14
		Port 42	-52.95	-47.67	-48.15	-54.33
		Port 43	-53.46	-47.81	-48.64	-54.54
		Port 44	-52.52	-46.68	-48.56	-52.95
		Port 45	-52.53	-46.89	-48.10	-54.60
		Port 46	-53.55	-45.96	-48.24	-55.61
		Port 47	-53.35	-48.33	-48.46	-55.07
		Port 48	-53.05	-48.10	-47.37	-53.96



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		Port 49	-52.88	-45.99	-48.65	-53.35
		Port 50	-53.77	-48.73	-48.70	-53.46
		Port 51	-52.91	-47.24	-46.30	-54.25
		Port 52	-54.47	-45.92	-47.18	-55.35
		Port 53	-52.69	-47.96	-47.40	-53.41
		Port 54	-53.05	-48.27	-49.28	-54.07
		Port 55	-54.34	-46.85	-48.02	-55.28
		Port 56	-53.48	-46.71	-48.27	-54.32
		Port 57	-53.93	-46.29	-47.21	-54.91
		Port 58	-52.92	-47.21	-48.06	-53.62
		Port 59	-53.16	-47.22	-47.02	-53.58
		Port 60	-53.23	-46.30	-48.53	-54.63
		Port 61	-52.83	-49.43	-46.83	-53.90
		Port 62	-53.16	-46.93	-48.73	-53.94
		Port 63	-54.03	-47.53	-48.64	-55.56
		Sum of data	-35.15	-28.90	-29.89	-36.44
		Limit (dBm)	-25.00	-13.00	-13.00	-25.00
		Margin(dB)	-10.15	-15.90	-16.89	-11.44
Channel	Modulation	Port	Measured Range (MHz)			
			3530 to 3610MHz [Greater than 10 MHz]	3610 to 3620MHz [Within 0 MHz to 10 MHz]	3630 to 3640MHz [Within 0 MHz to 10 MHz]	3640 to 3720MHz [Greater than 10 MHz]
Mid	256QAM	Port 0	-53.29	-46.69	-46.78	-54.88
		Port 1	-53.07	-46.99	-47.98	-54.81
		Port 2	-55.04	-49.13	-49.01	-55.43
		Port 3	-53.62	-48.24	-48.02	-54.68
		Port 4	-52.43	-46.08	-47.08	-53.32
		Port 5	-53.41	-47.73	-49.73	-54.42
		Port 6	-53.43	-46.58	-47.37	-53.90
		Port 7	-53.91	-46.61	-48.65	-55.33
		Port 8	-53.23	-48.71	-48.17	-54.10
		Port 9	-52.54	-48.18	-48.98	-54.95
		Port 10	-53.78	-47.79	-48.89	-55.92
		Port 11	-53.09	-49.19	-46.98	-55.10
		Port 12	-53.23	-46.30	-47.23	-53.17
		Port 13	-52.19	-46.05	-46.93	-54.09
		Port 14	-53.92	-49.23	-49.08	-55.05
		Port 15	-54.23	-48.37	-46.82	-54.55
		Port 16	-52.47	-46.25	-48.04	-53.17
		Port 17	-52.50	-49.03	-49.76	-54.57
		Port 18	-53.64	-46.37	-47.69	-54.68
		Port 19	-53.45	-46.70	-48.83	-55.08
		Port 20	-52.42	-47.38	-47.67	-54.80
		Port 21	-53.53	-46.61	-47.63	-54.60
		Port 22	-52.76	-49.96	-49.07	-54.29
		Port 23	-53.94	-45.73	-48.23	-55.65
		Port 24	-54.23	-46.51	-46.39	-55.52
		Port 25	-53.51	-47.07	-47.80	-56.00
		Port 26	-53.73	-48.31	-47.36	-54.55



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		Port 27	-53.75	-47.16	-48.24	-54.70
		Port 28	-53.16	-45.66	-48.60	-54.86
		Port 29	-53.54	-48.45	-48.06	-55.69
		Port 30	-53.55	-47.88	-48.15	-55.21
		Port 31	-53.96	-48.74	-47.92	-54.38
		Port 32	-51.04	-46.40	-48.21	-52.01
		Port 33	-52.89	-46.00	-48.51	-54.57
		Port 34	-52.18	-47.09	-49.32	-54.32
		Port 35	-52.47	-45.56	-48.29	-54.84
		Port 36	-52.28	-48.26	-47.73	-53.61
		Port 37	-52.33	-46.31	-48.44	-53.76
		Port 38	-53.55	-46.72	-49.02	-54.61
		Port 39	-53.28	-46.62	-48.82	-54.62
		Port 40	-53.53	-47.84	-48.79	-54.92
		Port 41	-52.72	-45.40	-47.34	-54.50
		Port 42	-53.73	-47.97	-47.40	-54.38
		Port 43	-52.44	-46.41	-47.70	-54.70
		Port 44	-51.51	-45.37	-45.13	-53.61
		Port 45	-52.86	-47.34	-48.46	-54.70
		Port 46	-53.80	-47.76	-49.47	-54.27
		Port 47	-52.78	-46.93	-46.93	-55.19
		Port 48	-53.33	-46.97	-47.79	-54.31
		Port 49	-51.66	-46.28	-48.13	-53.16
		Port 50	-52.61	-47.36	-47.81	-54.16
		Port 51	-52.68	-47.27	-47.94	-53.84
		Port 52	-53.71	-46.84	-46.03	-55.57
		Port 53	-52.89	-48.86	-49.06	-53.98
		Port 54	-52.48	-48.04	-47.63	-54.55
		Port 55	-53.70	-49.11	-46.97	-55.05
		Port 56	-53.22	-47.04	-47.31	-55.17
		Port 57	-52.93	-48.10	-48.12	-54.83
		Port 58	-53.59	-48.54	-47.32	-54.73
		Port 59	-53.67	-47.92	-46.96	-54.30
		Port 60	-52.67	-47.40	-47.63	-54.57
		Port 61	-53.32	-45.70	-46.42	-54.50
		Port 62	-53.20	-48.28	-48.15	-54.13
		Port 63	-54.09	-46.60	-47.73	-55.93
		Sum of data	-35.03	-29.12	-29.78	-36.45
		Limit (dBm)	-25.00	-13.00	-13.00	-25.00
		Margin(dB)	-10.03	-16.12	-16.78	-11.45

Table 8-19 Channel Edge Test Result Table (NR_n48_1C_10M_Mid Channel)

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Channel	Modulation	Port	Measured Range (MHz)			
			3530 to 3680MHz [Greater than 10 MHz]	3680 to 3690MHz [Within 0 MHz to 10 MHz]	3700 to 3710MHz [Within 0 MHz to 10 MHz]	3710 to 3720MHz [Greater than 10 MHz]
High	QPSK	Port 0	-53.24	-47.90	-51.74	-59.27
		Port 1	-53.16	-45.65	-49.29	-59.35
		Port 2	-52.81	-46.09	-49.07	-58.48
		Port 3	-52.23	-46.09	-49.60	-59.32
		Port 4	-51.28	-46.70	-49.52	-57.63
		Port 5	-52.99	-46.70	-50.43	-58.17
		Port 6	-53.49	-45.87	-49.05	-58.61
		Port 7	-53.71	-46.10	-49.88	-60.48
		Port 8	-55.27	-45.78	-50.70	-58.03
		Port 9	-52.34	-46.43	-48.25	-60.65
		Port 10	-52.52	-45.90	-49.72	-60.37
		Port 11	-53.34	-46.27	-50.49	-59.95
		Port 12	-52.36	-46.78	-49.53	-58.16
		Port 13	-52.43	-46.42	-48.94	-58.02
		Port 14	-53.20	-44.86	-50.07	-58.59
		Port 15	-52.96	-47.02	-49.50	-59.69
		Port 16	-51.41	-46.61	-50.80	-58.23
		Port 17	-52.15	-46.40	-47.66	-59.30
		Port 18	-53.27	-46.60	-50.72	-59.01
		Port 19	-53.70	-46.59	-48.43	-60.01
		Port 20	-52.74	-46.93	-50.06	-58.40
		Port 21	-52.76	-47.77	-48.82	-59.01
		Port 22	-53.15	-46.32	-49.72	-58.78
		Port 23	-52.69	-46.96	-50.89	-61.39
		Port 24	-53.94	-47.65	-49.24	-58.93
		Port 25	-53.30	-47.38	-49.60	-60.01
		Port 26	-51.98	-48.02	-49.22	-58.58
		Port 27	-52.96	-46.20	-48.38	-58.60
		Port 28	-53.14	-46.78	-50.07	-59.59
		Port 29	-52.49	-47.39	-49.79	-59.64
		Port 30	-52.12	-47.42	-48.10	-58.32
		Port 31	-52.35	-46.39	-50.80	-58.93
		Port 32	-50.88	-47.10	-49.12	-57.75
		Port 33	-52.24	-46.95	-49.63	-59.34
		Port 34	-52.76	-47.55	-48.59	-58.76
		Port 35	-51.60	-47.07	-49.88	-59.18
		Port 36	-52.42	-45.60	-49.76	-58.00
		Port 37	-51.90	-46.45	-49.63	-58.25
		Port 38	-52.62	-47.61	-49.78	-57.69
		Port 39	-52.47	-47.73	-49.20	-60.42
		Port 40	-52.38	-45.92	-50.16	-58.83
		Port 41	-52.13	-46.17	-48.22	-57.78
		Port 42	-52.95	-47.26	-47.42	-58.04
		Port 43	-53.12	-46.54	-49.48	-59.31
		Port 44	-51.37	-47.07	-49.53	-57.91



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		Port 45	-52.51	-47.14	-49.09	-58.73
		Port 46	-53.66	-46.31	-48.82	-58.71
		Port 47	-51.92	-47.42	-49.22	-58.58
		Port 48	-52.93	-46.58	-49.61	-59.03
		Port 49	-53.62	-46.26	-47.80	-57.39
		Port 50	-52.02	-46.76	-48.66	-57.27
		Port 51	-52.26	-46.10	-48.87	-57.94
		Port 52	-53.16	-47.68	-49.50	-59.11
		Port 53	-52.06	-47.27	-47.03	-57.39
		Port 54	-52.10	-46.21	-49.15	-58.63
		Port 55	-53.43	-45.80	-49.56	-59.72
		Port 56	-53.39	-46.16	-48.95	-58.91
		Port 57	-52.41	-45.77	-49.34	-58.45
		Port 58	-52.48	-46.46	-50.18	-58.51
		Port 59	-52.88	-46.32	-50.80	-58.84
		Port 60	-52.31	-46.09	-50.01	-58.41
		Port 61	-53.61	-45.12	-48.27	-58.01
		Port 62	-51.55	-45.50	-49.67	-57.43
		Port 63	-53.81	-46.68	-50.07	-58.80
		Sum of data	-34.57	-28.49	-31.27	-40.65
		Limit (dBm)	-25.00	-13.00	-13.00	-25.00
		Margin(dB)	-9.57	-15.49	-18.27	-15.65
Channel	Modulation	Port	Measured Range (MHz)			
			3530 to 3680MHz [Greater than 10 MHz]	3680 to 3690MHz [Within 0 MHz to 10 MHz]	3700 to 3710MHz [Within 0 MHz to 10 MHz]	3710 to 3720MHz [Greater than 10 MHz]
High	16QAM	Port 0	-52.36	-46.13	-48.53	-58.18
		Port 1	-51.48	-47.79	-49.56	-58.57
		Port 2	-51.69	-46.57	-48.56	-57.60
		Port 3	-53.14	-46.22	-48.06	-57.34
		Port 4	-51.71	-44.08	-47.82	-56.94
		Port 5	-50.87	-45.32	-47.91	-57.94
		Port 6	-51.04	-46.39	-50.29	-58.75
		Port 7	-53.21	-45.11	-49.83	-59.45
		Port 8	-51.89	-45.81	-48.45	-57.12
		Port 9	-52.14	-44.66	-49.05	-59.31
		Port 10	-52.58	-46.51	-48.05	-58.59
		Port 11	-52.02	-45.61	-48.62	-58.61
		Port 12	-52.25	-44.59	-48.46	-56.77
		Port 13	-52.55	-45.94	-48.94	-57.54
		Port 14	-52.37	-44.90	-48.93	-57.22
		Port 15	-52.25	-45.08	-48.76	-58.24
		Port 16	-51.31	-44.45	-49.16	-57.40
		Port 17	-52.29	-45.65	-47.87	-57.64
		Port 18	-52.47	-46.08	-48.88	-56.86
		Port 19	-51.94	-45.47	-49.03	-58.61
		Port 20	-51.21	-44.81	-48.72	-57.43
		Port 21	-52.03	-46.74	-48.86	-58.28
		Port 22	-52.49	-45.01	-48.93	-57.69



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		Port 23	-52.54	-45.41	-47.98	-60.04
		Port 24	-51.98	-47.13	-49.94	-58.37
		Port 25	-52.24	-45.18	-47.41	-58.92
		Port 26	-51.63	-46.09	-47.58	-57.28
		Port 27	-52.18	-46.59	-48.55	-56.94
		Port 28	-52.29	-45.29	-48.31	-58.83
		Port 29	-51.59	-44.47	-49.96	-58.14
		Port 30	-52.17	-46.22	-49.61	-56.93
		Port 31	-51.48	-47.10	-50.29	-58.48
		Port 32	-50.34	-43.65	-48.17	-57.03
		Port 33	-51.44	-44.75	-49.14	-58.84
		Port 34	-51.61	-46.16	-47.88	-57.58
		Port 35	-51.09	-46.72	-50.17	-58.26
		Port 36	-51.20	-45.62	-48.89	-57.47
		Port 37	-50.75	-45.48	-48.84	-56.52
		Port 38	-52.30	-46.29	-49.26	-58.15
		Port 39	-52.59	-46.62	-49.62	-59.32
		Port 40	-52.32	-46.52	-47.58	-57.76
		Port 41	-51.06	-45.50	-49.41	-57.14
		Port 42	-51.19	-45.96	-48.46	-57.25
		Port 43	-51.84	-45.61	-46.95	-57.84
		Port 44	-50.80	-45.71	-48.47	-57.20
		Port 45	-52.03	-45.79	-49.35	-56.08
		Port 46	-52.73	-46.18	-49.51	-57.02
		Port 47	-51.66	-46.80	-49.91	-58.11
		Port 48	-52.18	-45.80	-48.86	-56.97
		Port 49	-51.29	-44.54	-49.31	-57.19
		Port 50	-51.51	-43.42	-48.69	-56.22
		Port 51	-50.52	-46.40	-47.63	-57.37
		Port 52	-52.45	-43.99	-47.75	-57.36
		Port 53	-51.84	-45.68	-47.80	-56.30
		Port 54	-51.55	-45.51	-48.44	-57.04
		Port 55	-52.94	-44.94	-47.97	-58.17
		Port 56	-51.83	-47.28	-48.73	-58.90
		Port 57	-51.52	-45.81	-48.57	-57.77
		Port 58	-52.39	-45.27	-48.31	-57.87
		Port 59	-52.62	-45.57	-48.62	-58.10
		Port 60	-52.57	-45.03	-49.45	-58.03
		Port 61	-51.38	-45.26	-48.98	-56.93
		Port 62	-51.40	-47.06	-49.54	-57.24
		Port 63	-52.83	-47.13	-49.07	-57.32
		Sum of data	-33.78	-27.54	-30.63	-39.62
		Limit (dBm)	-25.00	-13.00	-13.00	-25.00
		Margin(dB)	-8.78	-14.54	-17.63	-14.62
Channel	Modulation	Port	Measured Range (MHz)			
			3530 to 3680MHz [Greater than 10 MHz]	3680 to 3690MHz [Within 0 MHz to 10 MHz]	3700 to 3710MHz [Within 0 MHz to 10 MHz]	3710 to 3720MHz [Greater than 10 MHz]
High	64QAM	Port 0	-52.65	-47.84	-49.13	-58.38

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		Port 1	-51.29	-45.71	-49.74	-58.37
		Port 2	-52.79	-46.38	-48.66	-57.58
		Port 3	-52.62	-46.50	-48.67	-58.27
		Port 4	-51.30	-46.46	-49.29	-56.91
		Port 5	-53.54	-45.59	-48.81	-57.05
		Port 6	-51.75	-45.95	-48.73	-58.50
		Port 7	-52.06	-45.69	-47.65	-59.44
		Port 8	-51.88	-46.95	-47.76	-57.16
		Port 9	-52.30	-47.05	-50.80	-59.77
		Port 10	-52.35	-46.32	-49.40	-59.54
		Port 11	-52.19	-45.64	-48.29	-59.15
		Port 12	-52.27	-46.82	-49.52	-56.95
		Port 13	-51.76	-45.65	-49.31	-57.30
		Port 14	-51.72	-44.33	-49.66	-57.98
		Port 15	-53.64	-46.30	-49.57	-57.64
		Port 16	-51.17	-45.67	-50.30	-57.32
		Port 17	-51.85	-44.56	-49.65	-57.35
		Port 18	-52.92	-45.40	-49.58	-57.95
		Port 19	-52.49	-45.93	-48.92	-58.81
		Port 20	-51.50	-46.15	-49.69	-57.18
		Port 21	-51.42	-46.56	-49.85	-57.59
		Port 22	-52.60	-46.23	-49.27	-58.09
		Port 23	-52.66	-45.12	-49.49	-60.00
		Port 24	-53.37	-48.25	-50.35	-58.63
		Port 25	-52.09	-47.08	-48.55	-59.23
		Port 26	-52.77	-46.00	-48.90	-56.91
		Port 27	-53.25	-45.72	-49.68	-57.45
		Port 28	-52.08	-45.22	-48.93	-58.85
		Port 29	-52.42	-45.14	-50.38	-58.13
		Port 30	-52.59	-45.58	-49.37	-57.07
		Port 31	-52.27	-45.56	-49.50	-58.86
		Port 32	-51.90	-44.57	-49.46	-57.45
		Port 33	-51.89	-46.14	-48.78	-58.34
		Port 34	-51.18	-44.43	-49.58	-56.97
		Port 35	-52.62	-45.84	-50.16	-57.66
		Port 36	-51.71	-45.89	-49.67	-57.63
		Port 37	-51.36	-44.88	-49.67	-56.90
		Port 38	-51.92	-45.96	-49.08	-57.91
		Port 39	-53.30	-46.56	-49.10	-58.77
		Port 40	-52.51	-45.99	-49.22	-58.96
		Port 41	-50.87	-46.14	-48.17	-57.38
		Port 42	-51.29	-45.36	-50.04	-57.44
		Port 43	-51.77	-45.54	-49.20	-58.22
		Port 44	-51.74	-44.23	-49.17	-57.43
		Port 45	-52.31	-45.61	-48.93	-58.26
		Port 46	-53.20	-47.34	-48.28	-58.20
		Port 47	-52.03	-46.61	-48.23	-57.39
		Port 48	-51.96	-46.34	-50.12	-57.39

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		Port 49	-50.81	-45.75	-49.40	-57.72
		Port 50	-51.03	-45.77	-48.37	-56.33
		Port 51	-51.01	-45.24	-46.73	-56.74
		Port 52	-52.36	-45.79	-49.52	-58.21
		Port 53	-51.26	-46.45	-47.91	-55.90
		Port 54	-51.48	-45.88	-49.29	-57.70
		Port 55	-52.90	-46.22	-49.84	-58.87
		Port 56	-51.45	-45.66	-47.74	-58.57
		Port 57	-52.90	-46.39	-50.17	-57.45
		Port 58	-52.25	-46.14	-48.60	-58.58
		Port 59	-52.76	-46.51	-49.00	-58.89
		Port 60	-50.85	-45.37	-49.82	-57.52
		Port 61	-50.73	-45.14	-50.01	-57.31
		Port 62	-51.72	-45.07	-48.67	-57.24
		Port 63	-52.15	-45.89	-51.24	-57.32
		Sum of data	-33.95	-27.78	-31.09	-39.77
		Limit (dBm)	-25.00	-13.00	-13.00	-25.00
		Margin(dB)	-8.95	-14.78	-18.09	-14.77
Channel	Modulation	Port	Measured Range (MHz)			
			3530 to 3680MHz [Greater than 10 MHz]	3680 to 3690MHz [Within 0 MHz to 10 MHz]	3700 to 3710MHz [Within 0 MHz to 10 MHz]	3710 to 3720MHz [Greater than 10 MHz]
High	256QAM	Port 0	-51.93	-46.65	-50.07	-59.30
		Port 1	-52.00	-45.82	-49.22	-59.03
		Port 2	-52.81	-46.96	-48.48	-58.71
		Port 3	-53.74	-46.50	-48.52	-59.19
		Port 4	-51.73	-46.88	-46.20	-57.68
		Port 5	-52.12	-46.06	-49.38	-57.83
		Port 6	-52.59	-47.24	-47.65	-58.22
		Port 7	-52.29	-45.41	-48.65	-59.26
		Port 8	-52.93	-44.89	-50.65	-58.27
		Port 9	-51.58	-47.21	-48.24	-61.17
		Port 10	-51.87	-46.57	-50.55	-59.64
		Port 11	-53.31	-46.76	-47.89	-59.66
		Port 12	-52.05	-46.18	-49.37	-58.06
		Port 13	-53.05	-46.01	-49.29	-57.84
		Port 14	-51.91	-47.17	-49.26	-58.27
		Port 15	-53.25	-46.18	-47.11	-58.61
		Port 16	-51.55	-47.32	-47.01	-57.55
		Port 17	-52.90	-46.87	-49.04	-58.85
		Port 18	-52.81	-45.99	-48.70	-58.21
		Port 19	-53.17	-47.30	-49.01	-58.89
		Port 20	-52.57	-46.25	-48.33	-58.16
		Port 21	-52.17	-46.19	-50.24	-58.29
		Port 22	-52.78	-46.82	-49.21	-58.30
		Port 23	-52.54	-46.91	-48.84	-60.66
		Port 24	-52.59	-47.64	-49.18	-58.63
		Port 25	-52.76	-47.43	-48.63	-59.41
		Port 26	-51.89	-46.05	-49.28	-56.91

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		Port 27	-52.63	-47.50	-47.58	-57.34
		Port 28	-52.97	-45.39	-48.94	-58.69
		Port 29	-52.11	-45.55	-48.90	-58.97
		Port 30	-51.82	-45.77	-47.64	-57.58
		Port 31	-51.34	-46.34	-49.45	-59.01
		Port 32	-51.54	-45.80	-48.29	-58.16
		Port 33	-52.09	-46.97	-48.10	-57.86
		Port 34	-51.68	-46.93	-50.03	-58.28
		Port 35	-51.22	-46.35	-47.65	-58.81
		Port 36	-51.60	-45.62	-49.41	-58.65
		Port 37	-52.38	-46.23	-46.91	-57.88
		Port 38	-51.97	-46.52	-48.78	-57.65
		Port 39	-53.74	-46.47	-48.64	-60.60
		Port 40	-53.13	-46.72	-49.20	-58.48
		Port 41	-51.23	-45.63	-46.40	-57.39
		Port 42	-51.55	-46.08	-48.69	-58.11
		Port 43	-52.13	-45.80	-47.58	-58.70
		Port 44	-51.09	-46.43	-48.97	-57.94
		Port 45	-51.99	-46.11	-50.40	-58.41
		Port 46	-52.32	-46.37	-48.62	-57.80
		Port 47	-51.72	-45.40	-48.02	-58.84
		Port 48	-52.72	-45.08	-47.76	-59.31
		Port 49	-51.19	-45.84	-47.95	-57.42
		Port 50	-51.60	-45.36	-49.17	-57.06
		Port 51	-51.08	-45.97	-48.15	-57.07
		Port 52	-52.62	-46.22	-47.96	-58.05
		Port 53	-51.28	-45.62	-48.11	-56.98
		Port 54	-52.43	-45.34	-47.76	-57.95
		Port 55	-52.02	-45.89	-48.80	-58.87
		Port 56	-52.89	-46.22	-48.78	-59.26
		Port 57	-52.67	-45.56	-49.51	-58.48
		Port 58	-51.35	-44.90	-47.87	-58.78
		Port 59	-52.11	-45.59	-48.09	-59.04
		Port 60	-51.90	-45.28	-49.68	-58.54
		Port 61	-51.68	-47.09	-48.19	-58.38
		Port 62	-51.93	-46.92	-48.22	-57.88
		Port 63	-52.30	-46.43	-48.30	-57.67
		Sum of data	-34.09	-28.14	-30.44	-40.31
		Limit (dBm)	-25.00	-13.00	-13.00	-25.00
		Margin(dB)	-9.09	-15.14	-17.44	-15.31

Table 8-20 Channel Edge Test Result Table (NR_n48_1C_10M_High Channel)

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Channel	Modulation	Port	Measured Range (MHz)			
			3530 to 3540MHz [Greater than 10 MHz]	3540 to 3550MHz [Within 0 MHz to 10 MHz]	3580 to 3590MHz [Within 0 MHz to 10 MHz]	3590 to 3720MHz [Greater than 10 MHz]
Low	QPSK	Port 36	-53.90	-47.05	-44.25	-48.50
		MIMO Limit (dBm)	-43.06	-31.06	-31.06	-43.06
		Margin (dB)	-10.84	-15.99	-13.19	-5.44
Channel	Modulation	Port	Measured Range (MHz)			
			3530 to 3600MHz [Greater than 10 MHz]	3600 to 3610MHz [Within 0 MHz to 10 MHz]	3640 to 3650MHz [Within 0 MHz to 10 MHz]	3650 to 3720MHz [Greater than 10 MHz]
Mid	QPSK	Port 62	-48.96	-44.22	-47.80	-50.66
		MIMO Limit (dBm)	-43.06	-31.06	-31.06	-43.06
		Margin (dB)	-5.90	-13.16	-16.74	-7.60
Channel	Modulation	Port	Measured Range (MHz)			
			3530 to 3660MHz [Greater than 10 MHz]	3660 to 3670MHz [Within 0 MHz to 10 MHz]	3700 to 3710MHz [Within 0 MHz to 10 MHz]	3710 to 3720MHz [Greater than 10 MHz]
High	QPSK	Port 41	-49.66	-43.24	-49.60	-53.94
		MIMO Limit (dBm)	-43.06	-31.06	-31.06	-43.06
		Margin (dB)	-6.60	-12.18	-18.54	-10.88

Table 8-21 Channel Edge Test Result Table (NR_n48_2C_10M+20M)

Channel	Modulation	Port	Measured Range (MHz)			
			3530 to 3540MHz [Greater than 10 MHz]	3540 to 3550MHz [Within 0 MHz to 10 MHz]	3580 to 3590MHz [Within 0 MHz to 10 MHz]	3590 to 3720MHz [Greater than 10 MHz]
Low	QPSK	Port 44	-53.04	-45.39	-43.97	-48.47
		MIMO Limit (dBm)	-43.06	-31.06	-31.06	-43.06
		Margin (dB)	-9.98	-14.33	-12.91	-5.41
Channel	Modulation	Port	Measured Range (MHz)			
			3530 to 3590MHz [Greater than 10 MHz]	3590 to 3600MHz [Within 0 MHz to 10 MHz]	3650 to 3660MHz [Within 0 MHz to 10 MHz]	3660 to 3720MHz [Greater than 10 MHz]
Mid	QPSK	Port 41	-51.62	-46.42	-47.77	-48.65
		MIMO Limit (dBm)	-43.06	-31.06	-31.06	-43.06
		Margin (dB)	-8.56	-15.36	-16.71	-5.59
Channel	Modulation	Port	Measured Range (MHz)			
			3530 to 3640MHz [Greater than 10 MHz]	3640 to 3650MHz [Within 0 MHz to 10 MHz]	3700 to 3710MHz [Within 0 MHz to 10 MHz]	3710 to 3720MHz [Greater than 10 MHz]
High	QPSK	Port 51	-48.61	-41.90	-50.19	-54.76
		MIMO Limit (dBm)	-43.06	-31.06	-31.06	-43.06
		Margin (dB)	-5.55	-10.84	-19.13	-11.70

Table 8-22 Channel Edge Test Result Table (NR_n48_3C_10M+20M+20M)



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Channel	Modulation	Port	Measured Range (MHz)			
			3530 to 3540MHz [Greater than 10 MHz]	3540 to 3550MHz [Within 0 MHz to 10 MHz]	3620 to 3630MHz [Within 0 MHz to 10 MHz]	3630 to 3720MHz [Greater than 10 MHz]
Low	QPSK	Port 46	-54.93	-45.39	-47.79	-49.37
		MIMO Limit (dBm)	-43.06	-31.06	-31.06	-43.06
		Margin (dB)	-11.87	-14.33	-16.73	-6.31
Channel	Modulation	Port	Measured Range (MHz)			
			3530 to 3580MHz [Greater than 10 MHz]	3580 to 3590MHz [Within 0 MHz to 10 MHz]	3660 to 3670MHz [Within 0 MHz to 10 MHz]	3670 to 3720MHz [Greater than 10 MHz]
Mid	QPSK	Port 49	-50.41	-43.85	-50.26	-50.92
		MIMO Limit (dBm)	-43.06	-31.06	-31.06	-43.06
		Margin (dB)	-7.35	-12.79	-19.20	-7.86
Channel	Modulation	Port	Measured Range (MHz)			
			3530 to 3620MHz [Greater than 10 MHz]	3620 to 3630MHz [Within 0 MHz to 10 MHz]	3700 to 3710MHz [Within 0 MHz to 10 MHz]	3710 to 3720MHz [Greater than 10 MHz]
High	QPSK	Port 43	-48.88	-44.35	-51.64	-55.31
		MIMO Limit (dBm)	-43.06	-31.06	-31.06	-43.06
		Margin (dB)	-5.82	-13.29	-20.58	-12.25

Table 8-23 Channel Edge Test Result Table (NR_n48_3C_10M+20M+40M)

Channel	Modulation	Port	Measured Range (MHz)			
			3530 to 3540MHz [Greater than 10 MHz 1 st CA]	3540 to 3550MHz [Within 0 MHz to 10 MHz 1 st CA]	3560 to 3570MHz [Within 0 MHz to 10 MHz 1 st CA]	3570 to 3670MHz [Greater than 10 MHz 1 st CA]
Mid	QPSK	Port 49	-52.64	-46.23	-44.59	-51.19
		MIMO Limit (dBm)	-43.06	-31.06	-31.06	-43.06
		Margin (dB)	-9.58	-15.17	-13.53	-8.13
Channel	Modulation	Port	Measured Range (MHz)			
			3670 to 3680MHz [Within 0 MHz to 10 MHz 2 nd CA]	3700 to 3710MHz [Within 0 MHz to 10 MHz 2 nd CA]	3710 to 3720MHz [Greater than 10 MHz 2 nd CA]	
Mid	QPSK	Port 49	-44.56	-48.35	-54.81	
		MIMO Limit (dBm)	-31.06	-31.06	-43.06	
		Margin (dB)	-13.50	-17.29	-11.75	

Table 8-24 Channel Edge Test Result Table (NR_n48_2NC_10M+20M)

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Channel	Modulation	Port	Measured Range (MHz)				
			3530 to 3540MHz [Greater than 10 MHz 1 st CA]	3540 to 3550MHz [Within 0 MHz to 10 MHz 1 st CA]	3560 to 3570MHz [Within 0 MHz to 10 MHz 1 st CA]	3570 to 3600MHz [Greater than 10 MHz 1 st CA]	3600 to 3610MHz [Within 0 MHz to 10 MHz 2 nd CA]
Mid	QPSK	Port 41	-54.13	-45.93	-44.85	-50.95	-50.05
		MIMO Limit (dBm)	-43.06	-31.06	-31.06	-43.06	-31.06
		Margin (dB)	-11.07	-14.87	-13.79	-7.89	-18.99
Channel	Modulation	Port	Measured Range (MHz)				
			3630 to 3640MHz [Within 0 MHz to 10 MHz 2 nd CA]	3640 to 3670MHz [Greater than 10 MHz 2 nd CA]	3670 to 3680MHz [Within 0 MHz to 10 MHz 3 rd CA]	3700 to 3710MHz [Within 0 MHz to 10 MHz 3 rd CA]	3710 to 3720MHz [Greater than 10 MHz 3 rd CA]
Mid	QPSK	Port 41	-46.80	-50.46	-47.46	-50.37	-55.66
		MIMO Limit (dBm)	-31.06	-43.06	-31.06	-31.06	-43.06
		Margin (dB)	-15.74	-7.40	-16.40	-19.31	-12.60

Table 8-25 Channel Edge Test Result Table (NR_n48_3NC_10M+20M+20M)

Channel	Modulation	Port	Measured Range (MHz)				
			3530 to 3540MHz [Greater than 10 MHz 1 st CA]	3540 to 3550MHz [Within 0 MHz to 10 MHz 1 st CA]	3560 to 3570MHz [Within 0 MHz to 10 MHz 1 st CA]	3570 to 3590MHz [Greater than 10 MHz 1 st CA]	3590 to 3600MHz [Within 0 MHz to 10 MHz 2 nd CA]
Mid	QPSK	Port 32	-56.50	-45.94	-46.78	-50.21	-48.52
		MIMO Limit (dBm)	-43.06	-31.06	-31.06	-43.06	-31.06
		Margin (dB)	-13.44	-14.88	-15.72	-7.15	-17.46
Channel	Modulation	Port	Measured Range (MHz)				
			3620 to 3630MHz [Within 0 MHz to 10 MHz 2 nd CA]	3630 to 3650MHz [Greater than 10 MHz 2 nd CA]	3650 to 3660MHz [Within 0 MHz to 10 MHz 3 rd CA]	3700 to 3710MHz [Within 0 MHz to 10 MHz 3 rd CA]	3710 to 3720MHz [Greater than 10 MHz 3 rd CA]
Mid	QPSK	Port 32	-46.24	-48.17	-50.90	-50.46	-55.17
		MIMO Limit (dB)	-31.06	-43.06	-31.06	-31.06	-43.06
		Margin (dB)	-15.18	-5.11	-19.84	-19.40	-12.11

Table 8-26 Channel Edge Test Result Table (NR_n48_3NC_10M+20M+40M)



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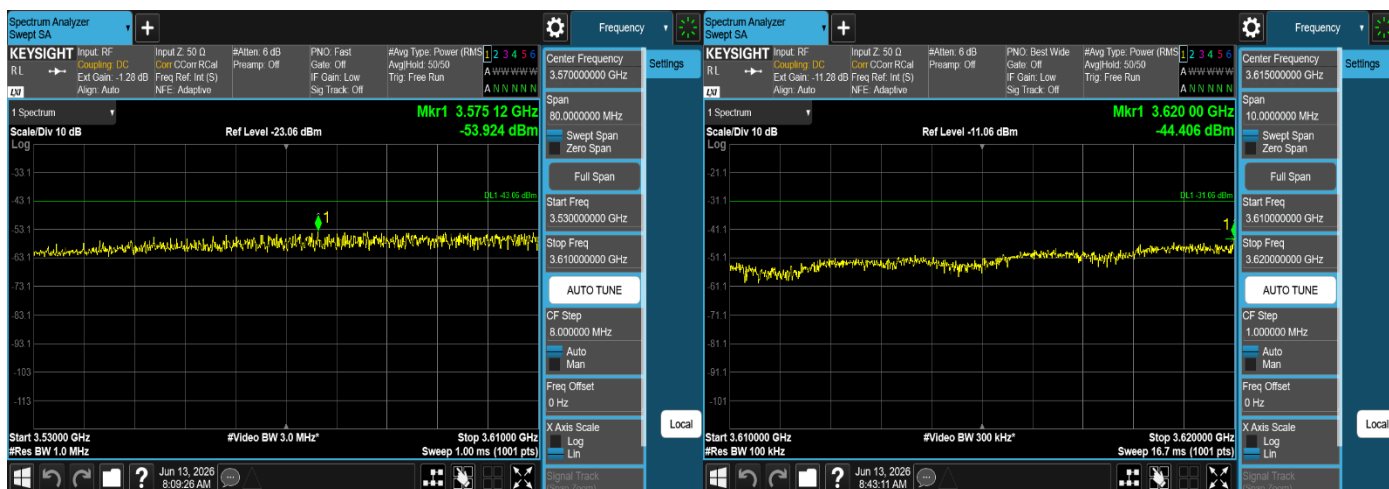
Plot 8-33. Channel Edge Plot 3530 to 3540MHz
(NR_n48_1C_10M_QPSK - Low Channel, Port 51)

Plot 8-34. Channel Edge Plot 3540 to 3550MHz
(NR_n48_1C_10M_QPSK - Low Channel, Port 51)



Plot 8-35. Channel Edge Plot 3560 to 3570MHz
(NR_n48_1C_10M_QPSK - Low Channel, Port 51)

Plot 8-36. Channel Edge Plot 3570 to 3720MHz
(NR_n48_1C_10M_QPSK - Low Channel, Port 51)



Plot 8-37. Channel Edge Plot 3530 to 3610MHz
(NR_n48_1C_10M_QPSK - Mid Channel, Port 57)

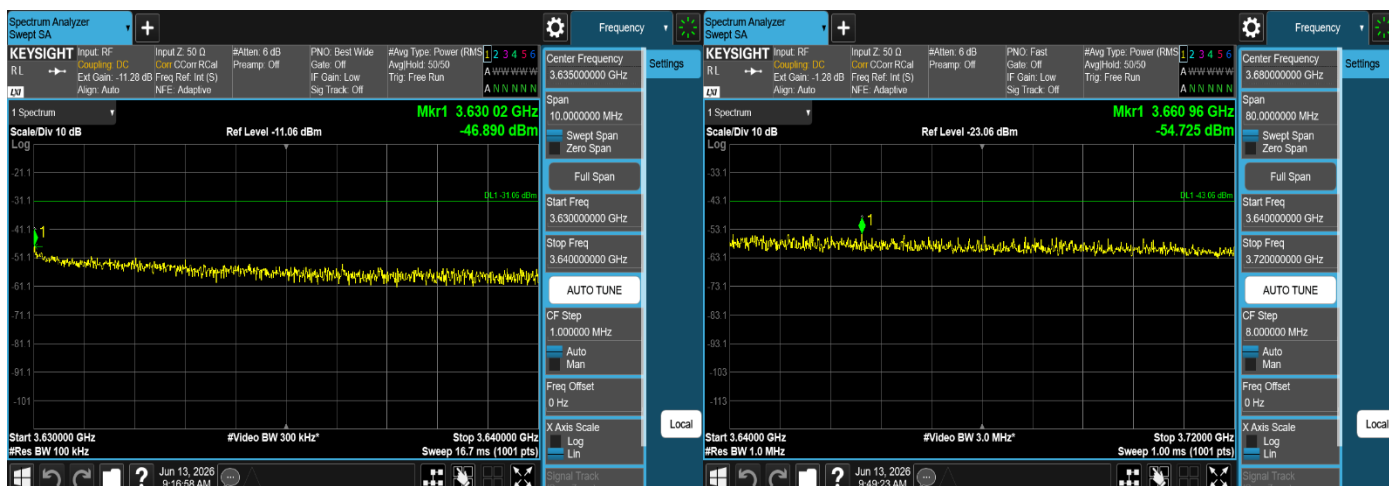
Plot 8-38. Channel Edge Plot 3610 to 3620MHz
(NR_n48_1C_10M_QPSK - Mid Channel, Port 57)



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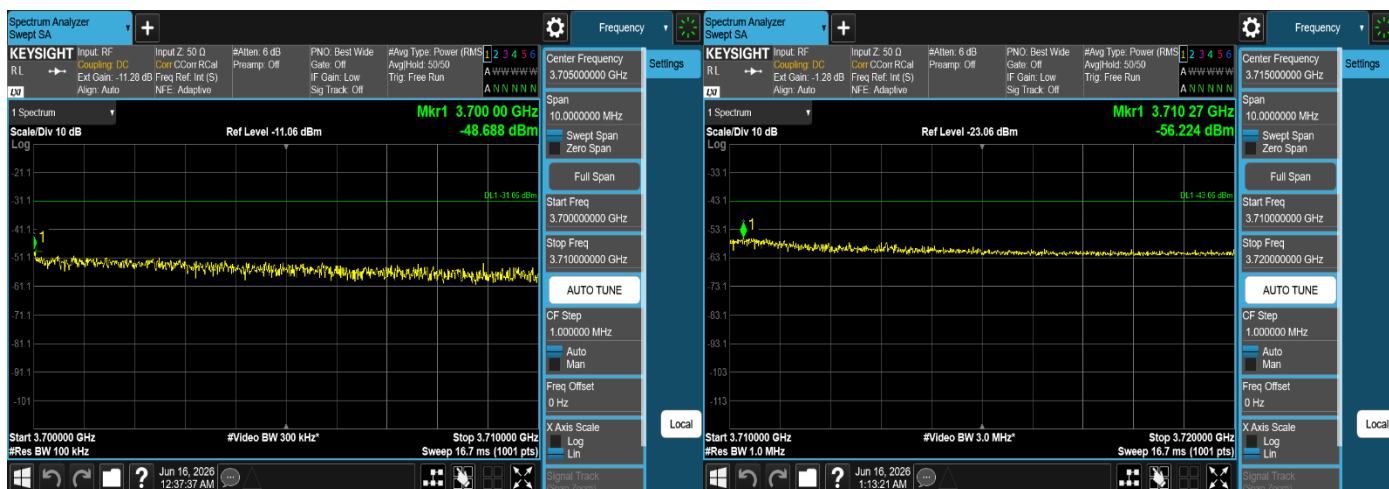
Plot 8-39. Channel Edge Plot 3630 to 3640MHz
(NR_n48_1C_10M_QPSK - Mid Channel, Port 57)

Plot 8-40. Channel Edge Plot 3640 to 3720MHz
(NR_n48_1C_10M_QPSK - Mid Channel, Port 57)



Plot 8-41. Channel Edge Plot 3530 to 3680MHz
(NR_n48_1C_10M_16QAM - High Channel, Port 50)

Plot 8-42. Channel Edge Plot 3680 to 3690MHz
(NR_n48_1C_10M_16QAM - High Channel, Port 50)



Plot 8-43. Channel Edge Plot 3700 to 3710MHz
(NR_n48_1C_10M_16QAM - High Channel, Port 50)

Plot 8-44. Channel Edge Plot 3710 to 3720MHz
(NR_n48_1C_10M_16QAM - High Channel, Port 50)