n13, Channel Bandwidth 5MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
155900	779.5	4.46	4.46	4.46	4.46	4.46
156400	782.0	4.46	4.46	4.46	4.46	4.46
156900	784.5	4.47	4.46	4.46	4.46	4.46

n13, Channel Bandwidth 10MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
156400	782.0	8.90	8.90	8.89	8.90	8.90
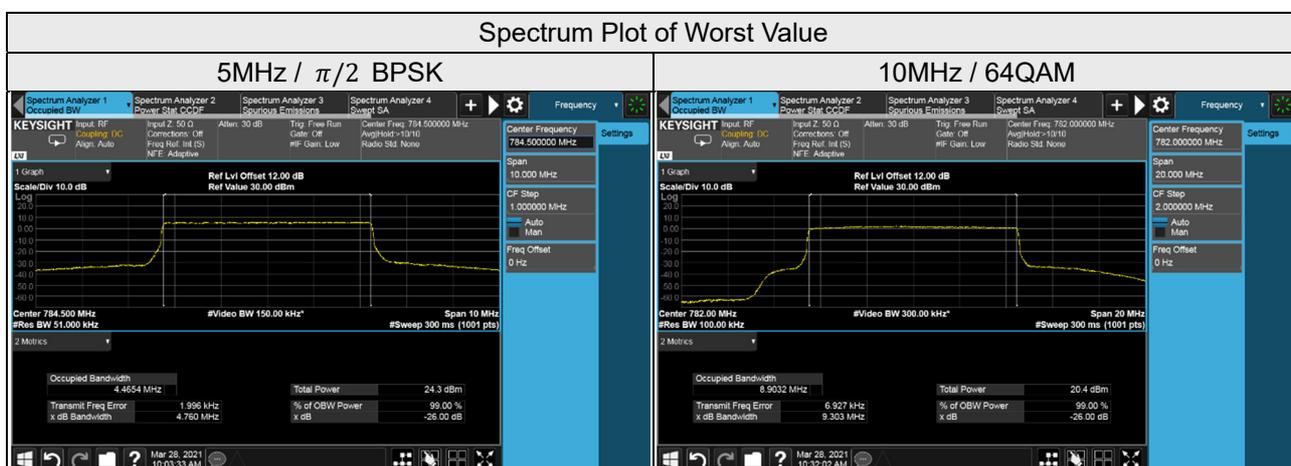
Spectrum Plot of Worst Value	
5MHz / $\pi/2$ BPSK	10MHz / 64QAM

n30, Channel Bandwidth 5MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
461500	2307.5	4.47	4.47	4.46	4.47	4.47
462000	2310.0	4.47	4.47	4.47	4.47	4.48
462500	2312.5	4.47	4.47	4.47	4.47	4.47
n30, Channel Bandwidth 10MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
462000	2310.0	9.16	9.29	9.29	9.28	9.29

Spectrum Plot of Worst Value	
5MHz / 256QAM	10MHz / QPSK

n38, Channel Bandwidth 20MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
516000	2580.0	18.03	18.20	18.19	18.19	18.19
519000	2595.0	18.09	18.19	18.20	18.20	18.19
522000	2610.0	18.02	18.19	18.19	18.19	18.19

n38, Channel Bandwidth 30MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
517000	2585.0	27.63	27.85	27.85	27.86	27.85
519000	2595.0	27.62	27.85	27.85	27.84	27.85
521000	2605.0	27.61	27.85	27.84	27.84	27.85

n38, Channel Bandwidth 40MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
518000	2590.0	37.50	37.81	37.81	37.81	37.81
519000	2595.0	37.48	37.81	37.80	37.80	37.80
520000	2600.0	37.36	37.80	37.80	37.81	37.80

Spectrum Plot of Worst Value

20MHz / 64QAM	30MHz / 64QAM

40MHz / 64QAM	

n41, Channel Bandwidth 20MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
501204	2506.02	17.94	18.19	18.19	18.19	18.19
518598	2592.99	18.01	18.20	18.19	18.19	18.19
535998	2679.99	18.04	18.20	18.19	18.20	18.19

n41, Channel Bandwidth 30MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
502200	2511.00	27.37	27.86	27.86	27.87	27.85
518598	2592.99	27.51	27.85	27.86	27.85	27.85
534996	2674.98	27.53	27.86	27.85	27.85	27.85

n41, Channel Bandwidth 40MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
503202	2516.01	37.02	37.82	37.81	37.82	37.81
518598	2592.99	37.35	37.82	37.82	37.82	37.82
534000	2670.00	37.48	37.81	37.81	37.80	37.79

n41, Channel Bandwidth 50MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
504204	2521.02	47.01	47.50	47.61	47.49	47.49
518598	2592.99	46.90	47.49	47.48	47.49	47.49
532998	2664.99	47.05	47.46	47.45	47.46	47.45

n41, Channel Bandwidth 60MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
505200	2526.00	57.91	57.89	57.89	57.89	57.89
518598	2592.99	57.70	57.89	57.89	57.88	57.88
531996	2659.98	57.69	57.71	57.70	57.71	57.71

n41, Channel Bandwidth 80MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
507204	2536.02	77.12	77.45	77.44	77.44	77.44
518598	2592.99	76.95	77.52	77.52	77.52	77.50
529998	2649.99	76.94	77.21	77.22	77.23	77.22
n41, Channel Bandwidth 90MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
508200	2541.00	86.55	87.25	87.26	87.25	87.23
518598	2592.99	86.57	87.56	87.57	87.56	87.55
528996	2644.98	86.55	87.23	87.23	87.22	87.24
n41, Channel Bandwidth 100MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
509202	2546.01	96.41	97.25	97.22	97.25	97.24
518598	2592.99	96.45	97.65	97.64	97.63	97.62
528000	2640.00	96.55	97.31	97.32	97.30	97.29

Spectrum Plot of Worst Value

20MHz / 64QAM
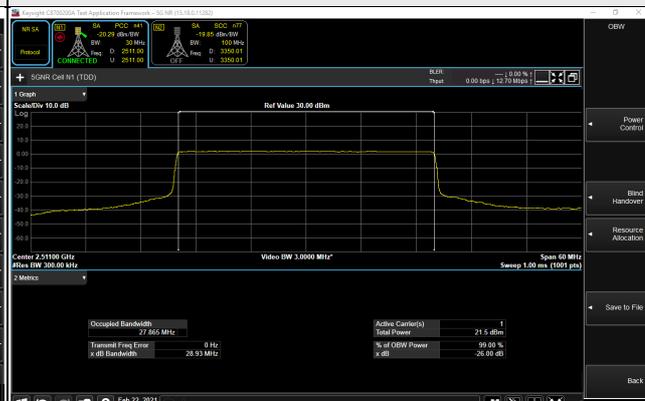
30MHz / 64QAM
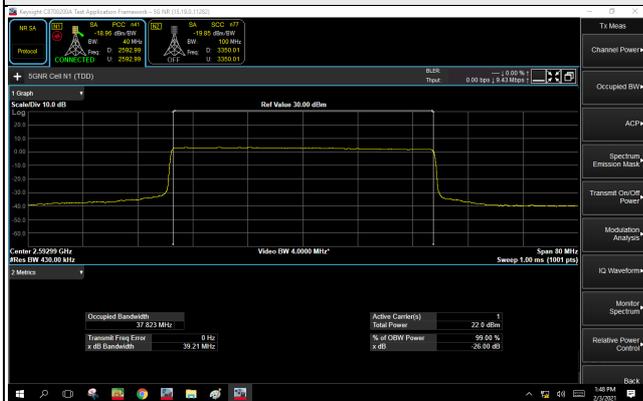
40MHz / 16QAM

50MHz / 16QAM

60MHz / π/2 BPSK

80MHz / 64QAM

90MHz / 16QAM

100MHz / QPSK
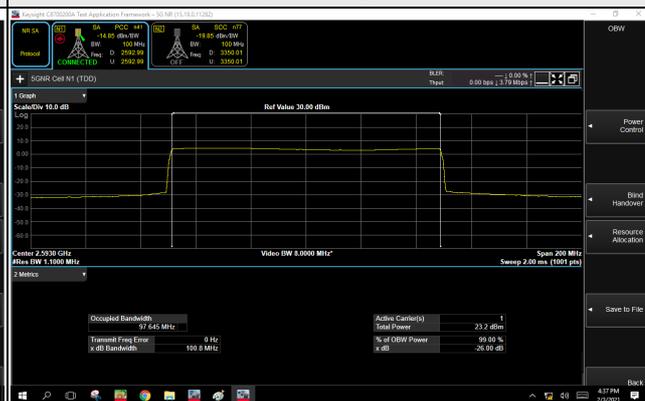
n66, Channel Bandwidth 5MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
342500	1712.5	4.48	4.47	4.47	4.47	4.46
349000	1745.0	4.47	4.47	4.47	4.46	4.47
355500	1777.5	4.46	4.47	4.47	4.47	4.47
n66, Channel Bandwidth 10MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
343000	1715.0	9.20	9.28	9.28	9.28	9.29
349000	1745.0	9.18	9.28	9.28	9.26	9.28
355000	1775.0	9.20	9.29	9.29	9.29	9.28
n66, Channel Bandwidth 15MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
343500	1717.5	14.00	14.11	14.11	14.11	14.11
349000	1745.0	14.00	14.11	14.11	14.11	14.11
354500	1772.5	14.00	14.12	14.11	14.12	14.11
n66, Channel Bandwidth 20MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
344000	1720.0	18.68	18.91	18.91	18.91	18.91
349000	1745.0	18.74	18.90	18.90	18.90	18.90
354000	1770.0	18.75	18.92	18.92	18.91	18.91
n66, Channel Bandwidth 30MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
345000	1725.0	28.49	28.57	28.50	28.57	28.50
349000	1745.0	28.49	28.50	28.50	28.50	28.49
353000	1765.0	28.57	28.57	28.58	28.57	28.57

n66, Channel Bandwidth 40MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
346000	1730.0	38.22	38.47	38.45	38.45	38.45
349000	1745.0	38.24	38.48	38.37	38.43	38.46
352000	1760.0	38.25	38.52	38.37	38.38	38.41

Spectrum Plot of Worst Value

5MHz / π/2 BPSK

10MHz / 256QAM

15MHz / 64QAM

20MHz / 16QAM

30MHz / 16QAM

40MHz / QPSK

n71, Channel Bandwidth 5MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
133100	665.5	4.47	4.47	4.47	4.46	4.47
136100	680.5	4.47	4.47	4.47	4.47	4.47
139100	695.5	4.46	4.47	4.47	4.47	4.47
n71, Channel Bandwidth 10MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
133600	668.0	9.18	9.29	9.28	9.28	9.29
136100	680.5	9.18	9.29	9.29	9.28	9.29
138600	693.0	9.21	9.28	9.28	9.26	9.29
n71 Channel Bandwidth 15MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
134100	670.5	13.93	14.11	14.11	14.07	14.11
136100	680.5	13.94	14.11	14.11	14.11	14.07
138100	690.5	14.00	14.11	14.11	14.10	14.11
n71, Channel Bandwidth 20MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
134600	673.0	18.60	18.90	18.90	18.89	18.88
136100	680.5	18.73	18.90	18.90	18.90	18.90
137600	688.0	18.73	18.90	18.90	18.90	18.90

Spectrum Plot of Worst Value

5MHz / $\pi/2$ BPSK

10MHz / 256QAM
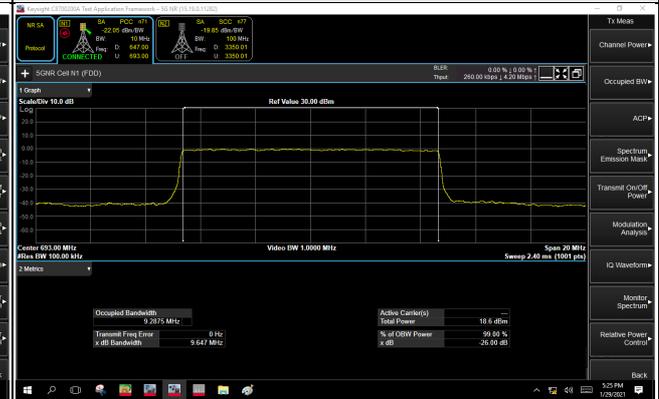
15MHz / 16QAM

20MHz / QPSK

n77, Channel Bandwidth 20MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
647334	3710.01	18.03	18.24	18.24	18.20	18.20
656000	3840.00	18.03	18.20	18.20	18.24	18.24
664666	3969.99	18.08	18.20	18.19	18.20	18.19
n77, Channel Bandwidth 30MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
647668	3715.02	27.53	27.86	27.86	27.87	27.86
656000	3840.00	27.61	27.86	27.87	27.85	27.86
664332	3964.98	27.62	27.86	27.86	27.85	27.85
n77, Channel Bandwidth 40MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
648000	3720.00	37.47	37.83	37.83	37.81	37.82
656000	3840.00	37.47	37.82	37.82	37.83	37.81
664000	3960.00	37.44	37.81	37.81	37.81	37.81
n77, Channel Bandwidth 50MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
648334	3725.01	47.02	47.48	47.48	47.47	47.47
656000	3840.00	47.03	47.47	47.47	47.46	47.47
663666	3954.99	46.87	47.46	47.46	47.47	47.46
n77, Channel Bandwidth 60MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
648668	3730.02	57.86	57.88	57.87	57.87	57.87
656000	3840.00	57.87	57.87	57.87	57.87	57.87
663332	3949.98	57.86	57.88	57.89	57.88	57.86

n77, Channel Bandwidth 70MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
649000	3735.00	66.76	67.51	67.53	67.51	67.51
656000	3840.00	66.94	67.53	67.53	67.55	67.54
663000	3945.00	66.99	67.53	67.55	67.53	67.53
n77, Channel Bandwidth 80MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
649334	3740.01	77.13	77.50	77.50	77.50	77.48
656000	3840.00	77.18	77.50	77.51	77.49	77.51
662666	3939.99	77.18	77.53	77.54	77.53	77.52
n77, Channel Bandwidth 90MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
649558	3745.02	86.83	87.52	87.53	87.50	87.52
656000	3840.00	86.87	87.54	87.54	87.54	87.53
662332	3934.98	86.88	87.55	87.57	87.57	87.55
n77, Channel Bandwidth 100MHz						
Channel	Frequency (MHz)	99% Occupied Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
650000	3750.00	96.59	97.39	97.60	97.61	97.37
656000	3840.00	96.82	97.64	97.65	97.63	97.40
662000	3930.00	96.83	97.63	97.64	97.64	97.63

Spectrum Plot of Worst Value
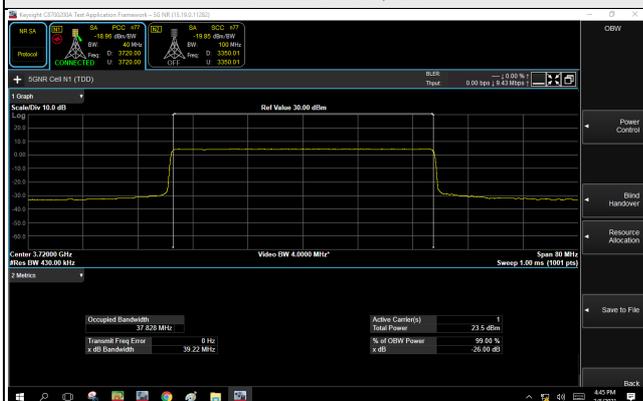
20MHz / 64QAM	30MHz / 64QAM
40MHz / 16QAM	**50MHz / 16QAM**
60MHz / 16QAM	**70MHz / 64QAM**
80MHz / 16QAM	**90MHz / 64QAM**
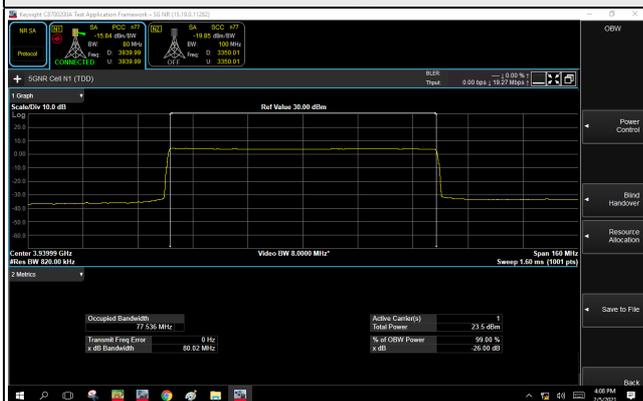
100MHz / 16QAM	

26dB Bandwidth

n7, Channel Bandwidth 5MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
500500	2502.5	4.76	4.75	4.74	4.74	4.74
507000	2535.0	4.76	4.76	4.74	4.75	4.74
513500	2567.5	4.73	4.74	4.71	4.75	4.70

n7, Channel Bandwidth 10MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
501000	2505.0	9.28	9.72	9.65	9.66	9.65
507000	2535.0	9.25	9.69	9.70	9.74	9.65
513000	2565.0	9.29	9.64	9.63	9.67	9.64

n7, Channel Bandwidth 15MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
501500	2507.5	13.88	14.63	14.62	14.61	14.60
507000	2535.0	13.90	14.63	14.64	14.61	14.63
512500	2562.5	13.88	14.61	14.60	14.59	14.61

n7, Channel Bandwidth 20MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
502000	2510.0	18.46	19.58	19.58	19.55	19.55
507000	2535.0	18.48	19.59	19.59	19.59	19.57
512000	2560.0	18.47	19.58	19.56	19.56	19.54

n7, Channel Bandwidth 25MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
502500	2512.5	24.03	24.87	24.88	24.87	24.81
507000	2535.0	24.03	24.87	24.88	24.88	24.78
511500	2557.5	24.04	24.88	24.89	24.88	24.80

n7, Channel Bandwidth 30MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
503000	2515.0	27.77	28.98	28.96	28.92	28.90
507000	2535.0	27.81	28.89	28.94	28.86	28.86
511000	2555.0	27.79	28.95	28.89	28.89	28.82

n7, Channel Bandwidth 40MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
504000	2520.0	37.03	38.25	39.24	39.22	39.20
507000	2535.0	37.03	39.19	39.21	39.19	39.18
510000	2550.0	37.07	39.19	39.19	39.21	39.18

n7, Channel Bandwidth 50MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
505000	2525.0	47.32	49.13	49.13	49.13	49.12
507000	2535.0	47.32	49.12	49.13	49.12	49.07
509000	2545.0	47.29	49.13	49.13	49.09	49.07

Spectrum Plot of Worst Value

5MHz / π/2 BPSK

10MHz / 64QAM

15MHz / 16QAM
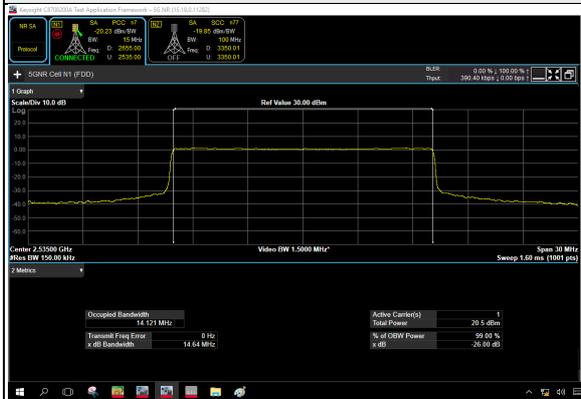
20MHz / 16QAM

25MHz / 16QAM

30MHz / QPSK

40MHz / 16QAM
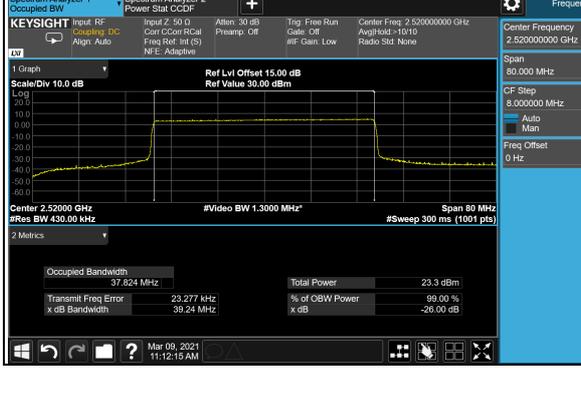
50MHz / 16QAM
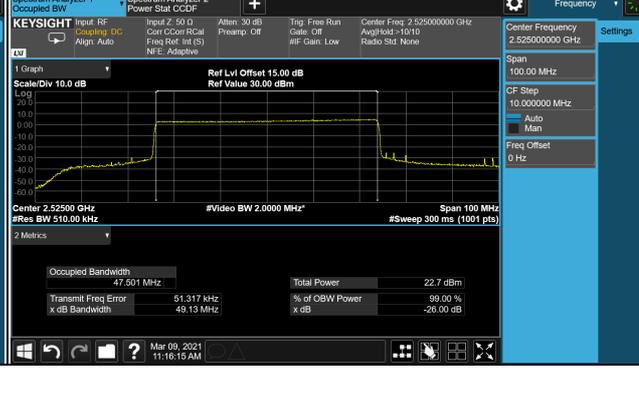
n12, Channel Bandwidth 5MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
140300	701.5	4.74	4.76	4.77	4.76	4.74
141500	707.5	4.77	4.76	4.75	4.73	4.73
142700	713.5	4.77	4.69	4.72	4.69	4.73

n12, Channel Bandwidth 10MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
140800	704.0	9.30	9.66	9.65	9.67	9.66
141500	707.5	9.27	9.64	9.71	9.64	9.64
142200	711.0	9.32	9.62	9.62	9.60	9.63

n12, Channel Bandwidth 15MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
141300	706.5	13.91	14.60	14.61	14.63	14.59
141500	707.5	13.89	14.61	14.63	14.61	14.60
141700	708.5	13.88	14.60	14.60	14.60	14.61

Spectrum Plot of Worst Value

5MHz / $\pi/2$ BPSK	10MHz / 16QAM

15MHz / 16QAM

n13, Channel Bandwidth 5MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
155900	779.5	4.72	4.73	4.75	4.75	4.73
156400	782.0	4.76	4.73	4.76	4.74	4.76
156900	784.5	4.76	4.76	4.75	4.75	4.77

n13, Channel Bandwidth 10MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
156400	782.0	9.30	9.28	9.28	9.30	9.30
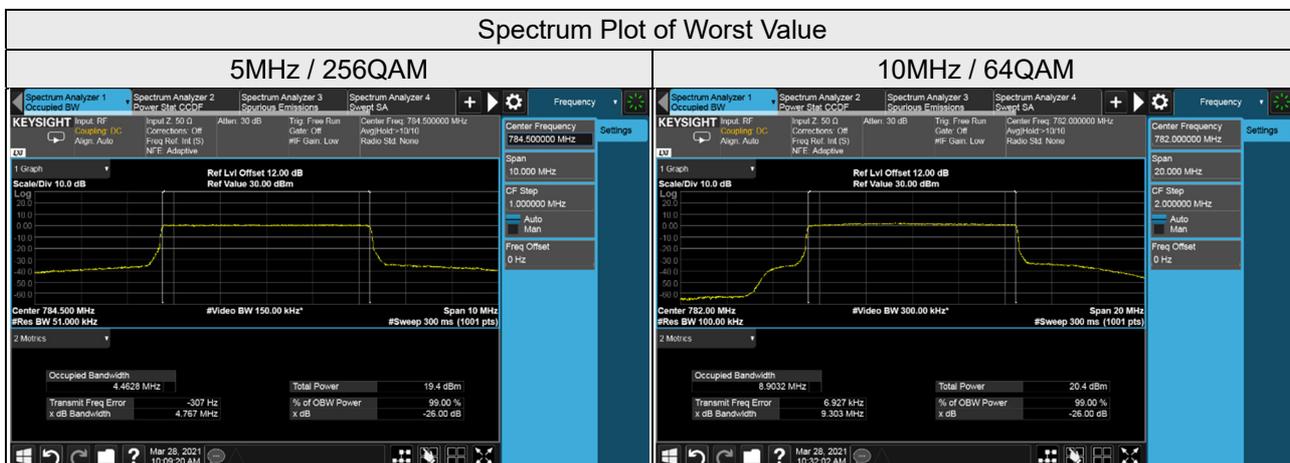
Spectrum Plot of Worst Value	
5MHz / 256QAM	10MHz / 64QAM

n30, Channel Bandwidth 5MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
461500	2307.5	4.72	4.68	4.74	4.73	4.75
462000	2310.0	4.73	4.77	4.78	4.76	4.77
462500	2312.5	4.72	4.74	4.74	4.77	4.74

n30, Channel Bandwidth 10MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
462000	2310.0	9.28	9.69	9.68	9.65	9.65

Spectrum Plot of Worst Value	
5MHz / 16QAM	10MHz / QPSK

n38, Channel Bandwidth 20MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
516000	2580.0	18.55	19.04	18.93	18.97	18.97
519000	2595.0	18.54	19.00	19.06	18.93	18.92
522000	2610.0	18.54	19.03	18.96	18.99	18.98

n38, Channel Bandwidth 30MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
517000	2585.0	27.79	28.86	28.88	28.88	28.85
519000	2595.0	27.80	28.90	28.87	28.88	28.86
521000	2605.0	27.78	28.88	28.88	28.86	28.83

n38, Channel Bandwidth 40MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
518000	2590.0	37.06	39.20	39.21	39.21	39.20
519000	2595.0	37.05	39.21	39.18	39.18	39.18
520000	2600.0	37.06	39.20	39.17	39.19	39.17

Spectrum Plot of Worst Value	
20MHz / 16QAM	30MHz / QPSK
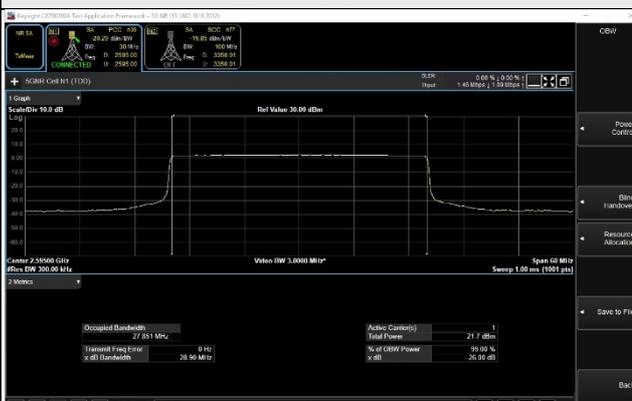
40MHz / 64QAM	

n41, Channel Bandwidth 20MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
501204	2506.02	18.56	19.01	19.02	18.97	18.93
518598	2592.99	18.55	19.01	19.03	18.90	18.92
535998	2679.99	18.57	19.09	19.06	19.00	18.94

n41, Channel Bandwidth 30MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
502200	2511.00	27.74	28.93	28.94	28.93	28.84
518598	2592.99	27.74	28.90	28.86	28.85	28.84
534996	2674.98	27.76	28.94	28.88	28.85	28.83

n41, Channel Bandwidth 40MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
503202	2516.01	36.99	39.19	39.20	39.19	39.19
518598	2592.99	37.01	39.21	39.21	39.19	39.21
534000	2670.00	37.03	39.20	39.17	39.21	39.16

n41, Channel Bandwidth 50MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
504204	2521.02	47.25	49.13	49.12	49.12	49.08
518598	2592.99	47.29	49.11	49.10	49.10	49.06
532998	2664.99	47.25	49.10	49.10	49.09	49.08

n41, Channel Bandwidth 60MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
505200	2526.00	59.73	59.74	59.73	59.75	59.74
518598	2592.99	59.74	59.76	59.76	59.76	59.73
531996	2659.98	59.72	59.75	59.73	59.76	59.74

n41, Channel Bandwidth 80MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
507204	2536.02	79.64	79.95	79.95	79.96	79.95
518598	2592.99	79.63	80.03	80.01	80.03	79.97
529998	2649.99	79.60	79.94	79.94	79.96	79.94

n41, Channel Bandwidth 90MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
508200	2541.00	89.52	90.26	90.26	90.24	90.22
518598	2592.99	89.58	90.36	90.36	90.33	90.31
528996	2644.98	89.50	90.24	90.25	90.23	90.25

n41, Channel Bandwidth 100MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
509202	2546.01	99.62	100.70	100.70	100.70	100.70
518598	2592.99	99.73	100.80	100.90	100.80	100.80
528000	2640.00	99.65	100.70	100.70	100.70	100.70

Spectrum Plot of Worst Value

20MHz / QPSK

30MHz / 16QAM
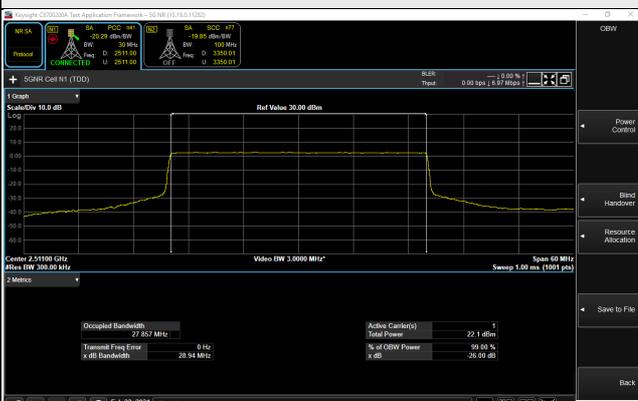
40MHz / QPSK

50MHz / QPSK
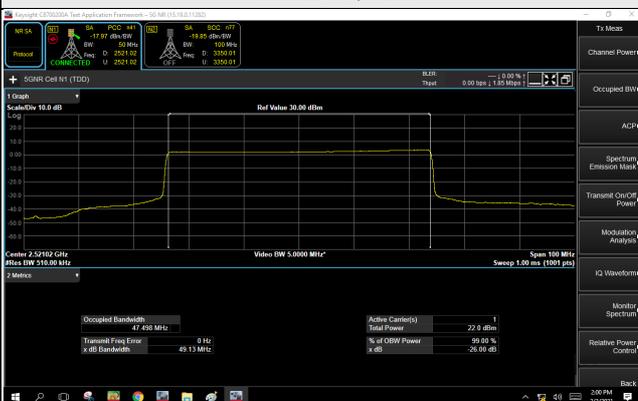
60MHz / QPSK
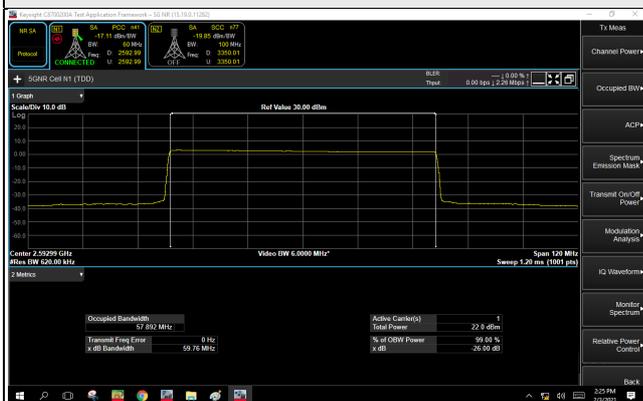
80MHz / 64QAM
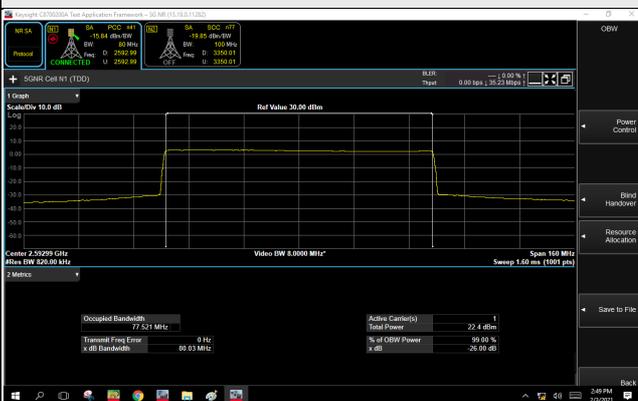
90MHz / 16QAM

100MHz / 16QAM

n66, Channel Bandwidth 5MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
342500	1712.5	4.74	4.72	4.73	4.76	4.76
349000	1745.0	4.72	4.76	4.76	4.69	4.77
355500	1777.5	4.74	4.76	4.72	4.72	4.76

n66, Channel Bandwidth 10MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
343000	1715.0	9.30	9.68	9.64	9.62	9.68
349000	1745.0	9.27	9.64	9.67	9.65	9.64
355000	1775.0	9.27	9.66	9.65	9.65	9.65

n66, Channel Bandwidth 15MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
343500	1717.5	13.88	14.62	14.65	14.62	14.62
349000	1745.0	13.88	14.62	14.60	14.62	14.60
354500	1772.5	13.90	14.62	14.62	14.61	14.62

n66, Channel Bandwidth 20MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
344000	1720.0	18.48	19.59	19.58	19.58	19.57
349000	1745.0	18.48	19.58	19.58	19.56	19.54
354000	1770.0	18.47	19.59	19.60	19.57	19.55

n66, Channel Bandwidth 30MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
345000	1725.0	29.48	29.51	29.51	29.51	29.49
349000	1745.0	29.47	29.51	29.50	29.50	29.48
353000	1765.0	29.49	29.52	29.53	29.51	29.49

n66, Channel Bandwidth 40MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
346000	1730.0	39.65	39.85	39.84	39.83	39.83
349000	1745.0	39.49	39.89	39.82	39.74	39.89
352000	1760.0	39.43	39.78	39.74	39.66	39.64

Spectrum Plot of Worst Value

5MHz / 256QAM	10MHz / 16QAM
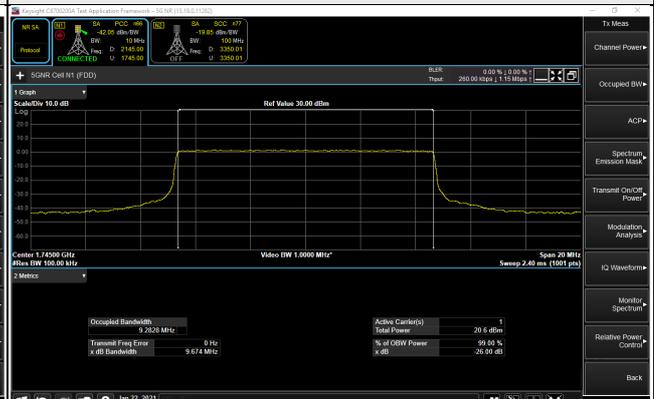
15MHz / QPSK	20MHz / 16QAM
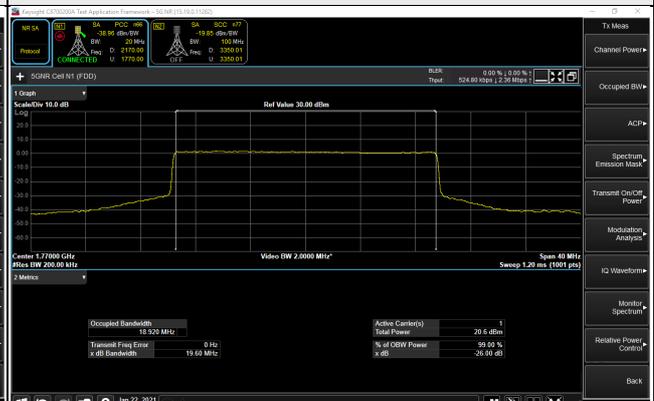
30MHz / 16QAM	40MHz / QPSK
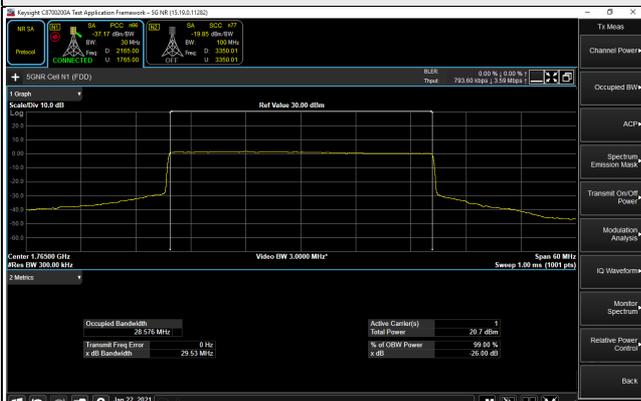
n71, Channel Bandwidth 5MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
133100	665.5	4.77	4.74	4.73	4.75	4.73
136100	680.5	4.75	4.77	4.74	4.74	4.74
139100	695.5	4.75	4.74	4.79	4.70	4.71

n71, Channel Bandwidth 10MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
133600	668.0	9.31	9.68	9.67	9.67	9.64
136100	680.5	9.29	9.68	9.67	9.65	9.64
138600	693.0	9.30	9.64	9.63	9.64	9.65

n71 Channel Bandwidth 15MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
134100	670.5	13.89	14.64	14.60	14.61	14.61
136100	680.5	13.88	14.61	14.61	14.61	14.59
138100	690.5	13.88	14.60	14.62	14.60	14.60

n71, Channel Bandwidth 20MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
134600	673.0	18.46	19.57	19.56	19.56	19.54
136100	680.5	18.49	19.58	19.57	19.56	19.56
137600	688.0	18.48	19.58	19.57	19.56	19.57

Spectrum Plot of Worst Value

5MHz / π/2 BPSK	10MHz / QPSK
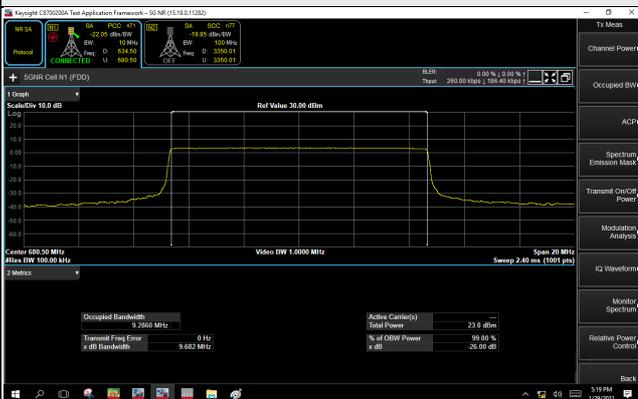
15MHz / QPSK	20MHz / QPSK

n77, Channel Bandwidth 20MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
647334	3710.01	18.61	19.10	19.07	18.96	19.00
656000	3840.00	18.56	19.02	18.99	19.01	18.98
664666	3969.99	18.59	19.06	19.02	19.07	18.97

n77, Channel Bandwidth 30MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
647668	3715.02	27.80	28.91	28.90	28.94	28.88
656000	3840.00	27.78	28.94	28.97	28.89	28.85
664332	3964.98	27.78	28.93	28.88	28.85	28.82

n77, Channel Bandwidth 40MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
648000	3720.00	37.04	39.22	39.22	39.20	39.20
656000	3840.00	37.03	39.21	39.20	39.22	39.19
664000	3960.00	37.03	39.20	39.20	39.20	39.17

n77, Channel Bandwidth 50MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
648334	3725.01	47.28	49.14	49.14	49.15	49.12
656000	3840.00	47.27	49.13	49.11	49.10	49.11
663666	3954.99	47.26	49.14	49.11	49.13	49.09

n77, Channel Bandwidth 60MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
648668	3730.02	59.75	59.80	59.80	59.80	59.78
656000	3840.00	59.76	59.81	59.81	59.78	59.74
663332	3949.98	59.75	59.87	59.82	59.78	59.74

n77, Channel Bandwidth 70MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
649000	3735.00	66.52	69.82	69.85	69.85	69.78
656000	3840.00	66.54	69.82	69.83	69.84	69.77
663000	3945.00	66.54	69.82	69.86	69.82	69.77

n77, Channel Bandwidth 80MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
649334	3740.01	79.63	80.01	80.00	80.03	79.98
656000	3840.00	79.67	80.01	80.01	80.02	79.99
662666	3939.99	79.65	80.03	80.02	80.04	80.02

n77, Channel Bandwidth 90MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
649558	3745.02	89.56	90.35	90.35	90.30	90.30
656000	3840.00	89.57	90.34	90.37	90.34	90.30
662332	3934.98	89.56	90.34	90.36	90.36	90.31

n77, Channel Bandwidth 100MHz						
Channel	Frequency (MHz)	26dB Bandwidth (MHz)				
		$\pi/2$ BPSK	QPSK	16QAM	64QAM	256QAM
650000	3750.00	99.69	100.80	100.80	100.80	100.80
656000	3840.00	99.73	100.80	100.80	100.80	100.80
662000	3930.00	99.72	100.80	100.80	100.80	100.80

Spectrum Plot of Worst Value

20MHz / 64QAM

30MHz / 16QAM
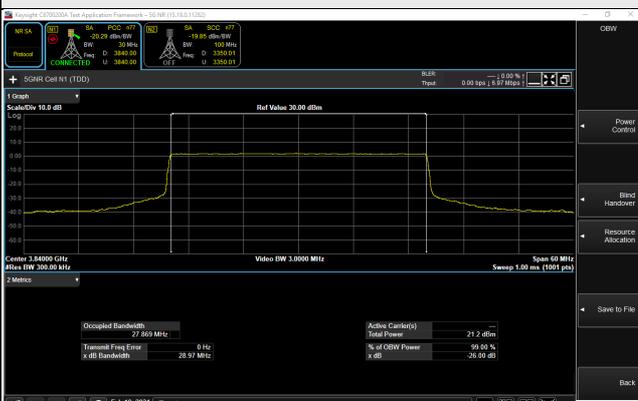
40MHz / 16QAM

50MHz / 16QAM
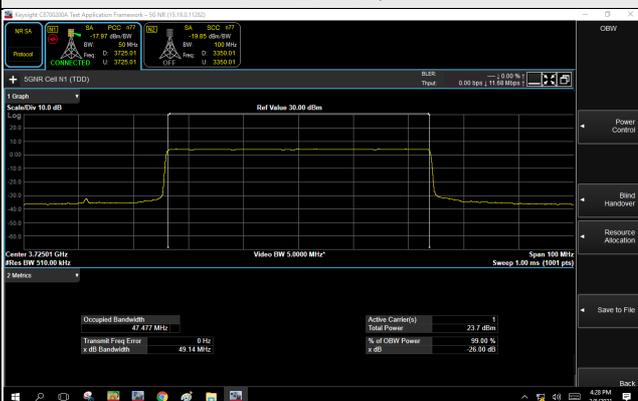
60MHz / 16QAM

70MHz / 64QAM

80MHz / 64QAM

90MHz / 16QAM
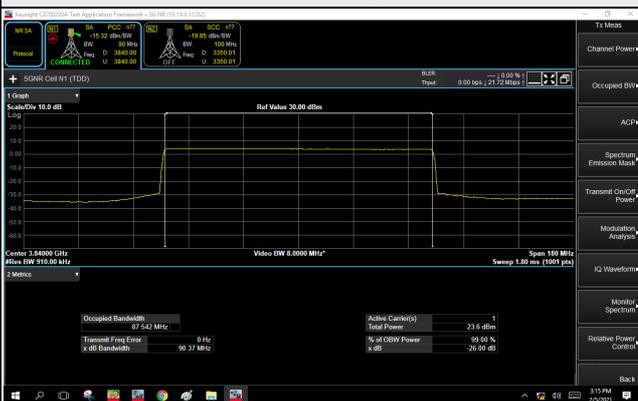
100MHz / 16QAM	

4.5 Channel Edge / Out-of-Band Emissions Measurement

4.5.1 Limits of Band Edge / Out-of-Band Emissions Measurement

For n7, n38, n41:

According to FCC 27.53(m)(4) specified that power of any emission outside of the channel edge must be attenuated below the transmitting power (P) by a factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth. In addition, the attenuation factor shall not be less that 43 + 10 log (P) dB on all frequencies between 2490.5MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5MHz. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed.

For n12, n71:

According to FCC 27.53(g) for operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater.

For n13:

According to FCC 27.53(c)(2) for on any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB.

According to 27.53(c)(4) On all frequencies between 763-775MHz and 793-805MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations

For n30:

According to FCC 27.53(a) (4) For mobile and portable stations operating in the 2305-2315MHz and 2350-2360 MHz bands:

(i) By a factor of not less than: 43 + 10 log (P) dB on all frequencies between 2305 and 2320MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than 55 + 10 log (P) dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345MHz, not less than 61 + 10 log (P) dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than 67 + 10 log (P) dB on all frequencies between 2328 and 2337 MHz;

(ii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2300 and 2305MHz, 55 + 10 log (P) dB on all frequencies between 2296 and 2300 MHz, 61 + 10 log (P) dB on all frequencies between 2292 and 2296 MHz, 67 + 10 log (P) dB on all frequencies between 2288 and 2292 MHz, and 70 + 10 log (P) dB below 2288 MHz;

(iii) By a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365MHz, and not less than 70 + 10 log (P) dB above 2365MHz.

For n66:

According to FCC 27.53(h) for operations in the 1695-1710MHz, 1710-1755MHz, 1755-1780 MHz, 1915-1920MHz, 1995-2000 MHz, 2000-2020MHz, 2110-2155MHz, 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 (P) dB.

For n77:

According to FCC 27.53(I) for mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed −13 dBm/MHz. Compliance with this paragraph (I)(2) 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, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. 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.

4.5.2 Test Setup
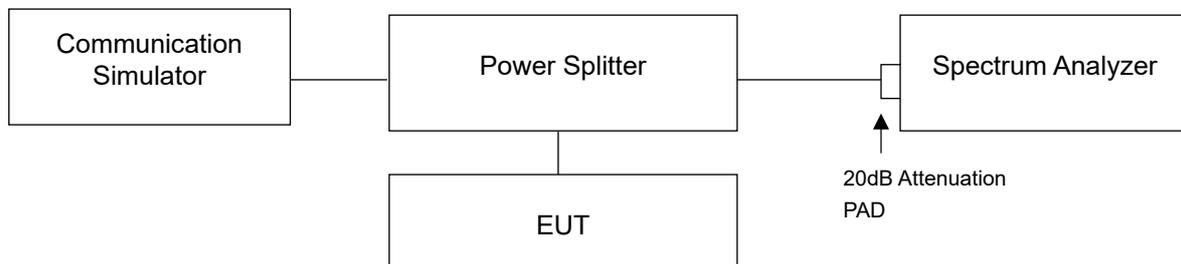
4.5.3 Test Procedures

a. The testing follows ANSI C63.26 section 5.7

b. The EUT was connected to spectrum analyzer and system simulator via a power divider.

c. The band edges of low and high channels for the highest RF powers were measured.

d. Set RBW >= 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.

e. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.

f. Set spectrum analyzer with RMS detector.

g. Checked that all the results comply with the emission limit line.