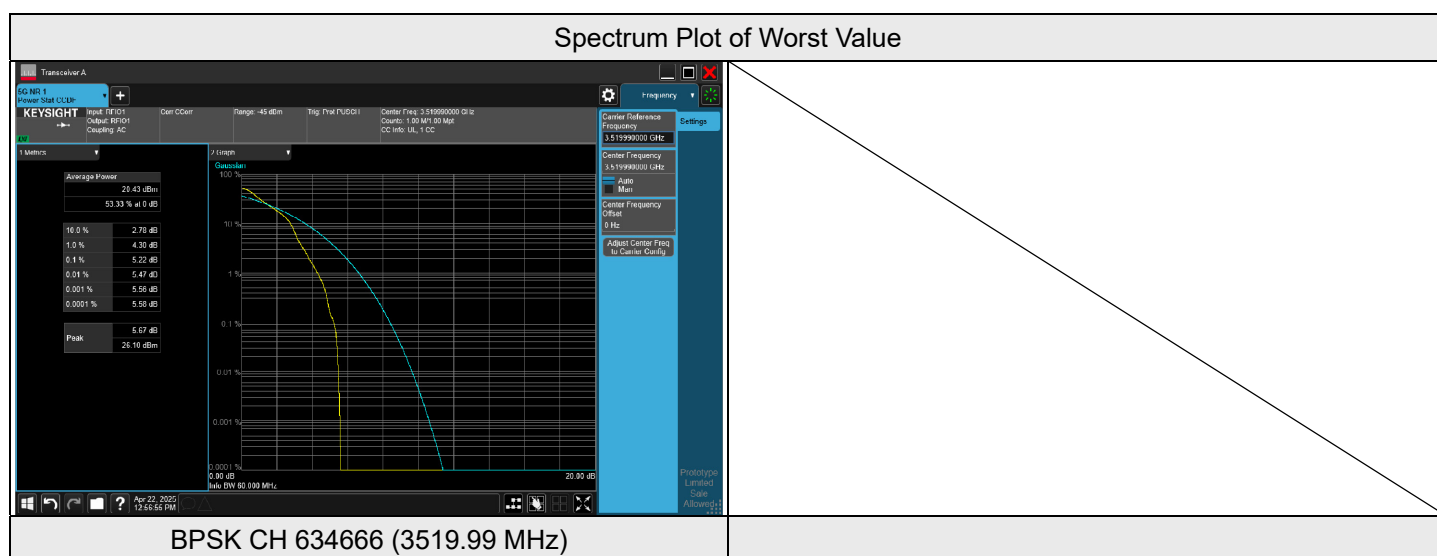


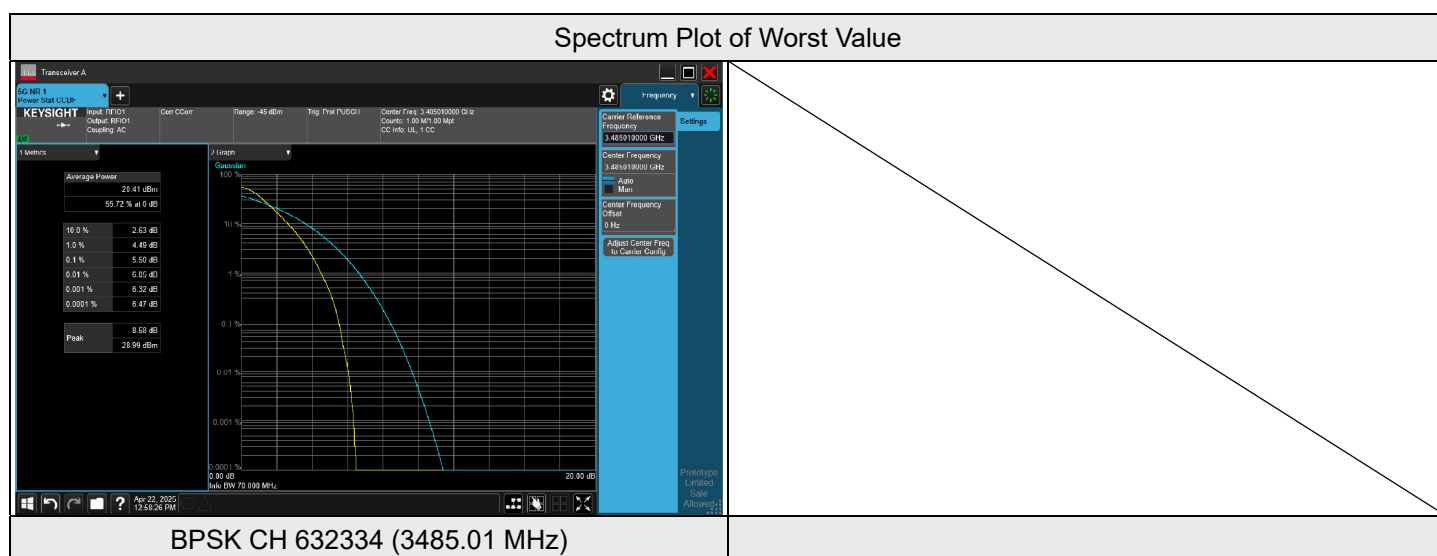
NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), Ant. 4, Channel Bandwidth: 60 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 632000	CH 633334	CH 634666
			3480 MHz	3500.01 MHz	3519.99 MHz
BPSK	1	161	4.62	5.06	5.22
	1	0	4.57	4.64	4.47
	162	0	4.56	4.62	4.52



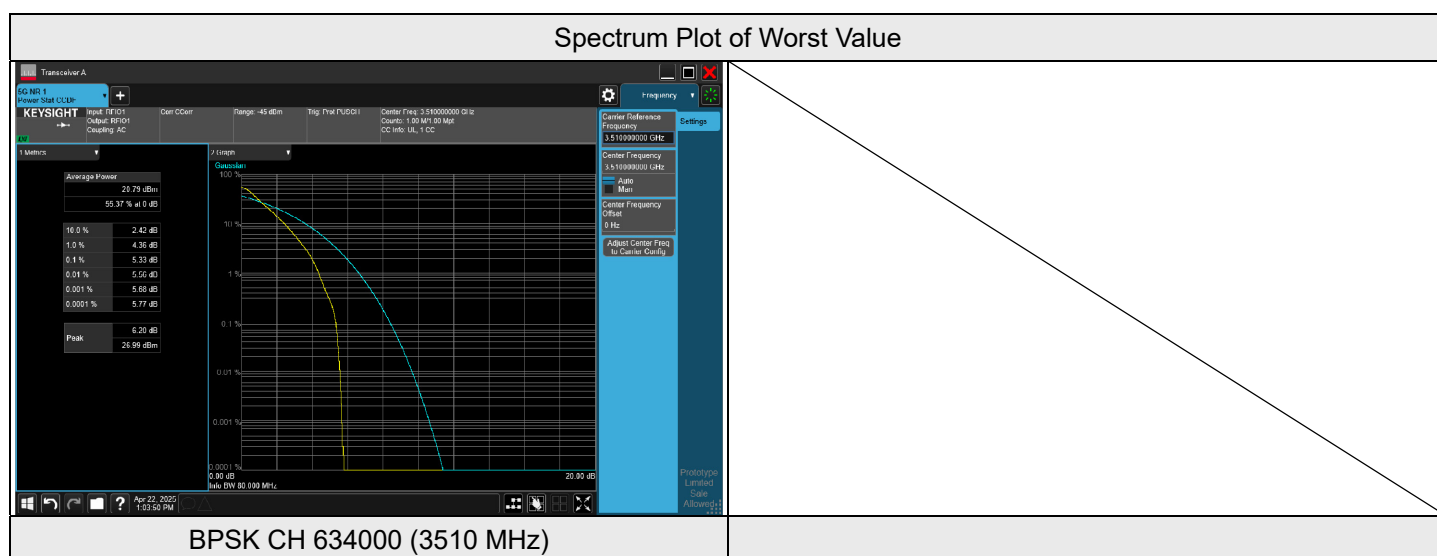
NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), Ant. 4, Channel Bandwidth: 70 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 632334	CH 633334	CH 634332
			3485.01 MHz	3500.01 MHz	3514.98 MHz
BPSK	1	188	4.74	4.68	5.06
	1	0	4.94	4.94	4.77
	180	0	5.50	4.25	4.34



NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), Ant. 4, Channel Bandwidth: 80 MHz

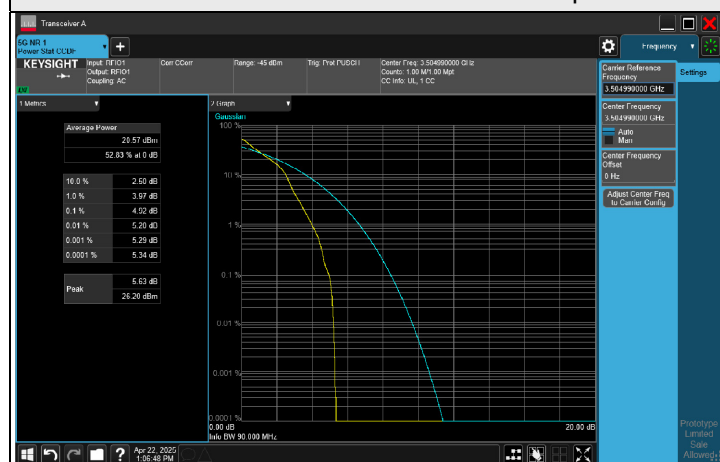
Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 632668	CH 633334	CH 634000
			3490.02 MHz	3500.01 MHz	3510 MHz
BPSK	1	216	4.98	4.78	4.53
	1	0	4.45	4.69	4.94
	216	0	5.23	5.00	5.33



NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), Ant. 4, Channel Bandwidth: 90 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 633000	CH 633334	CH 633666
			3495 MHz	3500.01 MHz	3504.99 MHz
BPSK	1	244	4.70	4.67	4.48
	1	0	4.59	4.63	4.92
	243	0	4.88	4.38	4.39

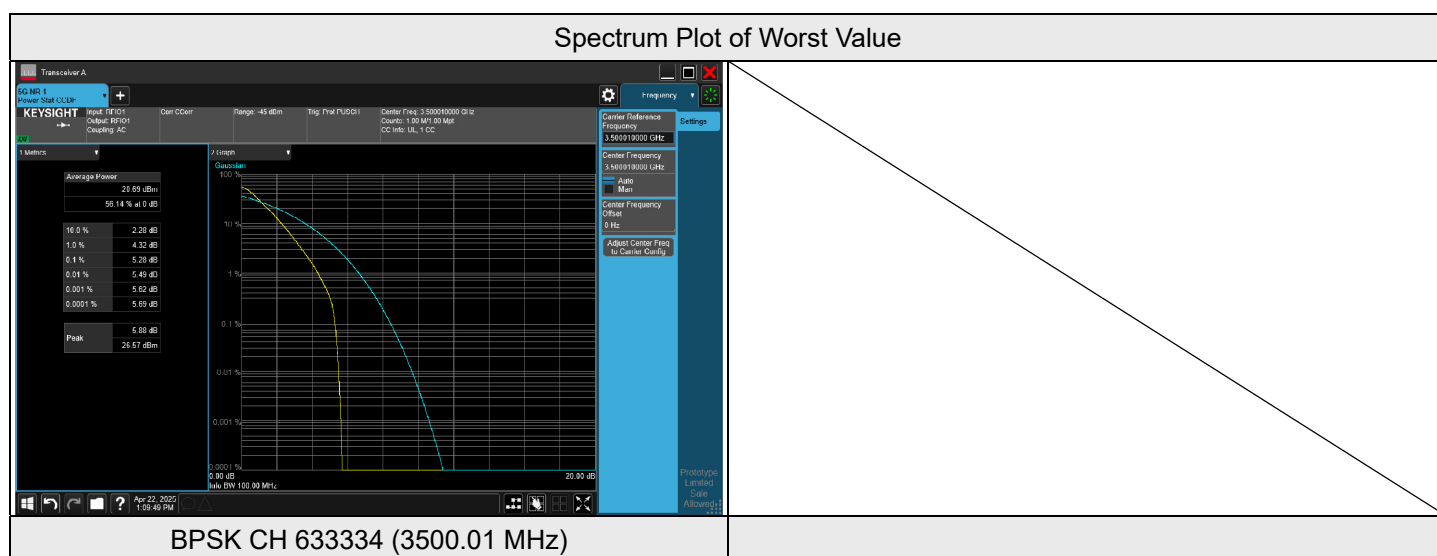
Spectrum Plot of Worst Value



BPSK CH 633666 (3504.99 MHz)

NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), Ant. 4, Channel Bandwidth: 100 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)
			CH 633334
			3500.01 MHz
BPSK	1	272	5.12
	1	0	4.63
	270	0	5.28

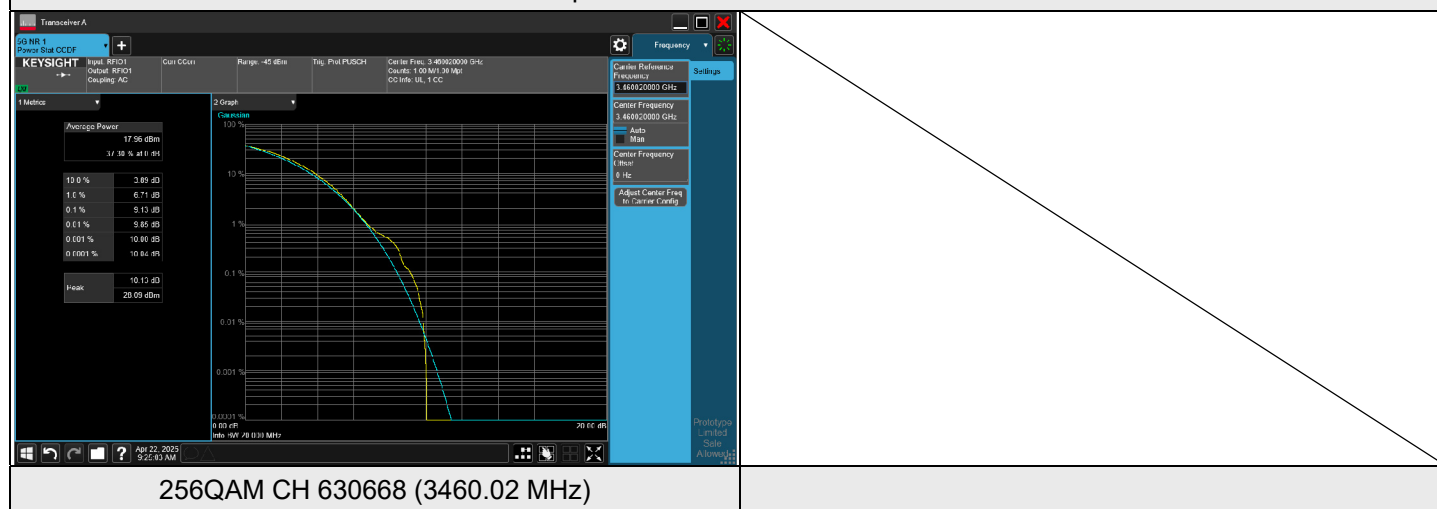


7.3.19 NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz) (MIMO)

NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 4, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 630668	CH 633334	CH 636000
			3460.02 MHz	3500.01 MHz	3540 MHz
QPSK	1	50	8.29	8.1	7.23
	1	0	8.13	7.71	8.68
	51	0	8.01	7.57	6.98
16QAM	1	50	7.89	8.2	7.63
	1	0	7.67	8.03	7.97
	51	0	8.29	7.7	8.24
64QAM	1	50	7.83	7.69	7.5
	1	0	7.76	7.93	8.5
	51	0	7.74	8.03	7.61
256QAM	1	50	8.3	8.06	8.11
	1	0	9.02	8.37	8.65
	51	0	8.87	9.13	8.41

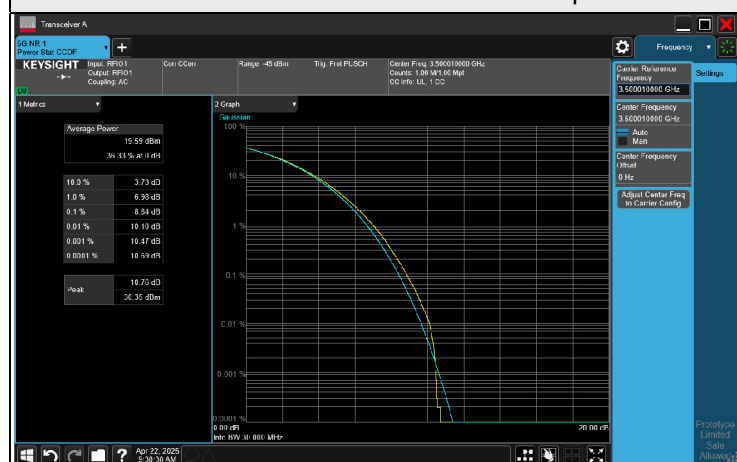
Spectrum Plot of Worst Value



NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 4, Channel Bandwidth: 30 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 631000	CH 633334	CH 635666
			3465 MHz	3500.01 MHz	3534.99 MHz
QPSK	1	77	7.94	7.79	7.63
	1	0	8.36	8.65	7.81
	78	0	7.09	8.01	7.4
16QAM	1	77	7.92	8.09	6.96
	1	0	8.14	7.88	7.47
	78	0	7.7	8.2	8.03
64QAM	1	77	7.48	7.75	7.81
	1	0	8.34	7.59	8.56
	78	0	7.92	8.31	8.14
256QAM	1	77	8.71	8.25	8.28
	1	0	8.03	8.84	8.81
	78	0	8.25	8.61	8.71

Spectrum Plot of Worst Value

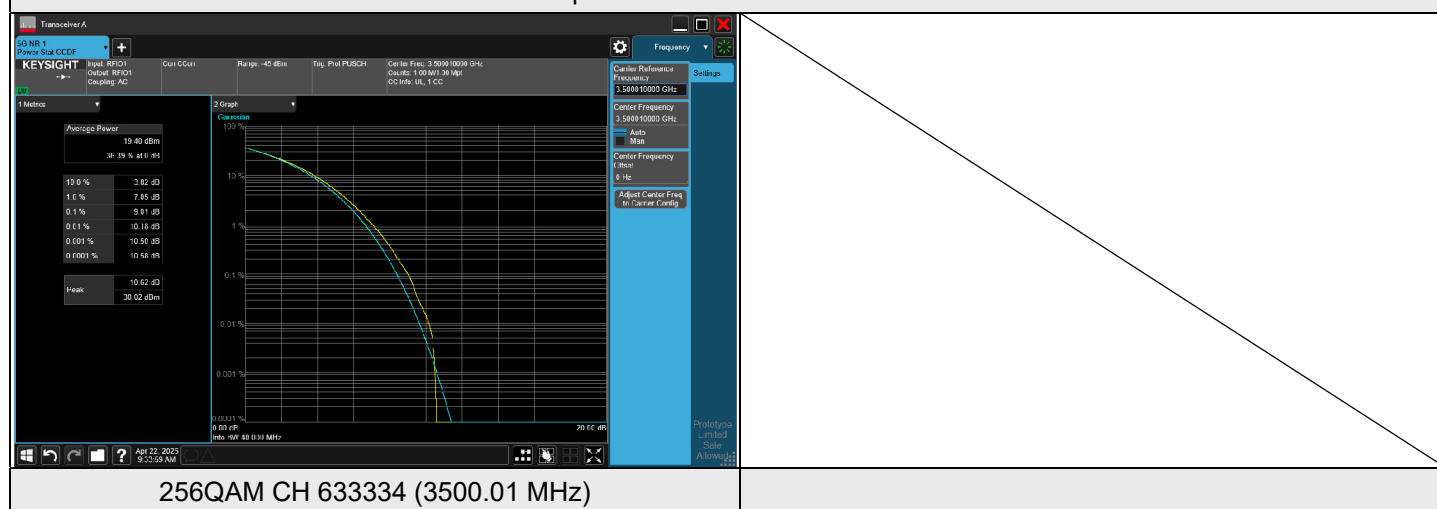


256QAM CH 633334 (3500.01 MHz)

NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 4, Channel Bandwidth: 40 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 631334	CH 633334	CH 635332
			3470.01 MHz	3500.01 MHz	3529.98 MHz
QPSK	1	105	7.56	8.24	7.43
	1	0	8.39	8.81	7.44
	106	0	7.41	7.52	7.54
16QAM	1	105	7.55	7.68	6.61
	1	0	7.85	7.82	7.97
	106	0	7.74	7.99	8.24
64QAM	1	105	7.92	7.82	8.08
	1	0	7.86	7.85	8.83
	106	0	7.82	7.82	7.96
256QAM	1	105	8.33	7.85	8.25
	1	0	8.26	7.58	8.32
	106	0	8.72	9.01	8.38

Spectrum Plot of Worst Value

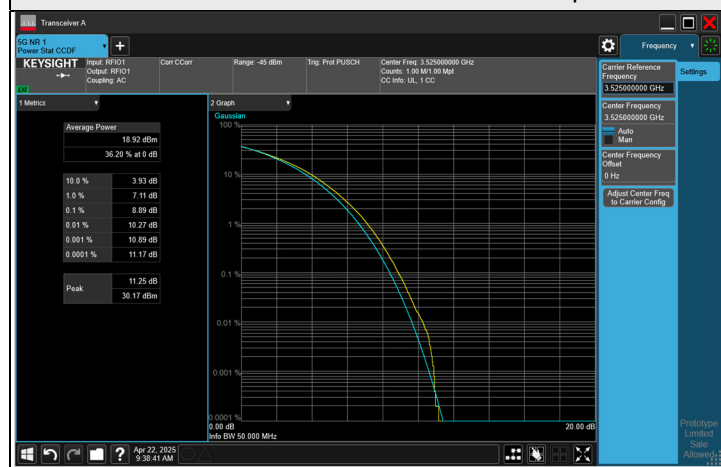


256QAM CH 633334 (3500.01 MHz)

NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 4, Channel Bandwidth: 50 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 631668	CH 633334	CH 635000
			3475.02 MHz	3500.01 MHz	3525 MHz
QPSK	1	132	7.50	8.04	7.73
	1	0	7.35	7.74	7.87
	133	0	8.07	7.58	7.41
16QAM	1	132	7.40	7.73	7.60
	1	0	7.31	7.60	7.77
	133	0	7.94	8.04	7.43
64QAM	1	132	7.94	7.67	8.14
	1	0	7.91	7.67	8.07
	133	0	8.11	7.65	7.44
256QAM	1	132	8.49	8.63	8.50
	1	0	8.80	8.75	8.79
	133	0	8.71	8.82	8.89

Spectrum Plot of Worst Value

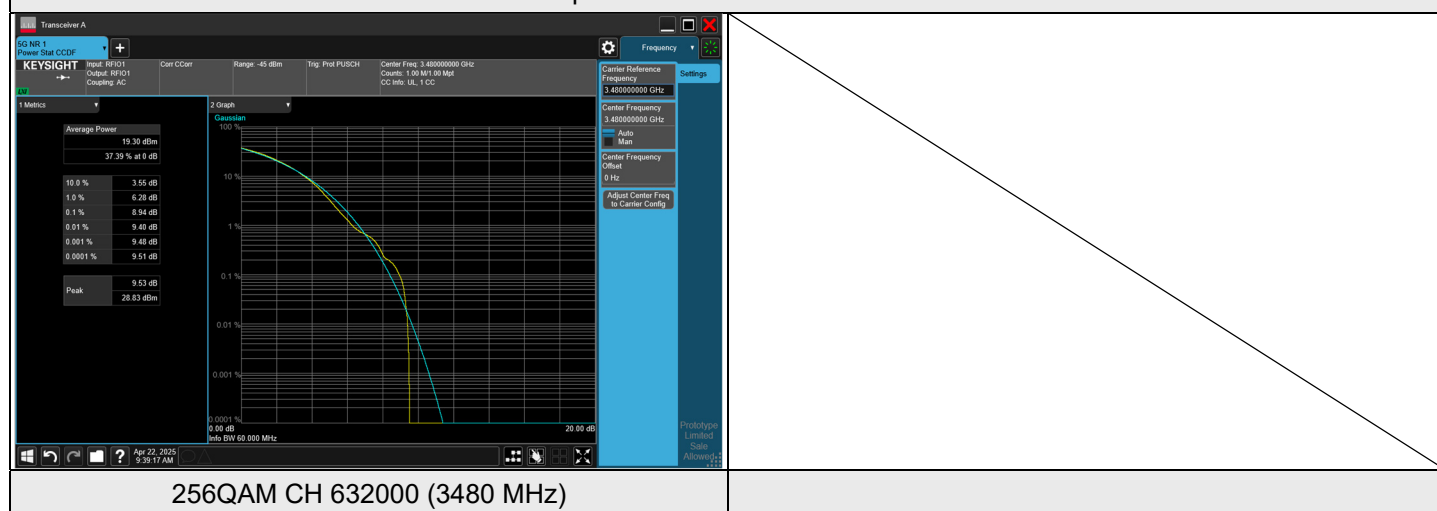


256QAM CH 635000 (3525 MHz)

NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 4, Channel Bandwidth: 60 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 632000	CH 633334	CH 634666
			3480 MHz	3500.01 MHz	3519.99 MHz
QPSK	1	161	7.63	7.61	7.89
	1	0	7.74	7.88	8.07
	162	0	8.12	7.75	7.30
16QAM	1	161	7.54	7.45	8.01
	1	0	7.53	7.34	8.20
	162	0	7.79	7.14	7.56
64QAM	1	161	7.88	8.20	7.91
	1	0	7.67	7.76	8.13
	162	0	8.21	7.70	8.02
256QAM	1	161	8.94	8.89	8.84
	1	0	8.57	8.05	8.02
	162	0	8.65	8.63	8.85

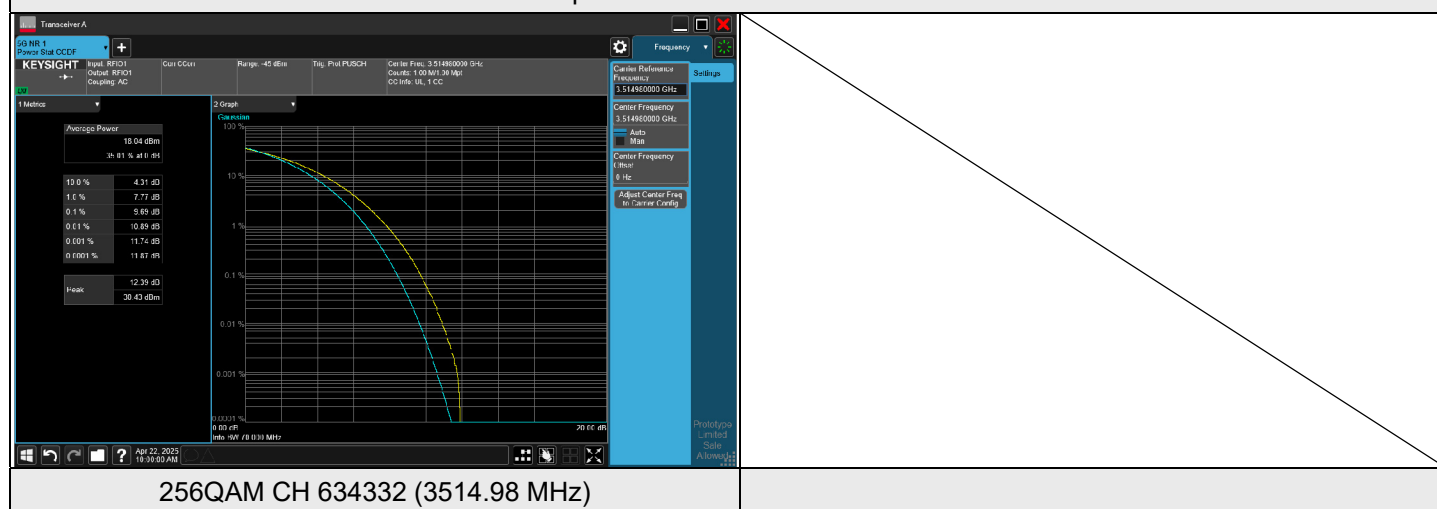
Spectrum Plot of Worst Value



NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 4, Channel Bandwidth: 70 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 632334	CH 633334	CH 634332
			3485.01 MHz	3500.01 MHz	3514.98 MHz
QPSK	1	188	7.67	7.41	7.55
	1	0	7.7	8.08	7.6
	189	0	7.69	8.01	7.13
16QAM	1	188	7.36	7.84	8.46
	1	0	7.52	7.37	8.3
	189	0	8.17	7.05	7.49
64QAM	1	188	7.4	8.37	8.34
	1	0	8.02	8.12	8.12
	189	0	8.65	7.33	8.2
256QAM	1	188	9.15	9.31	9.08
	1	0	8.23	8.12	7.85
	189	0	9.03	8.99	9.69

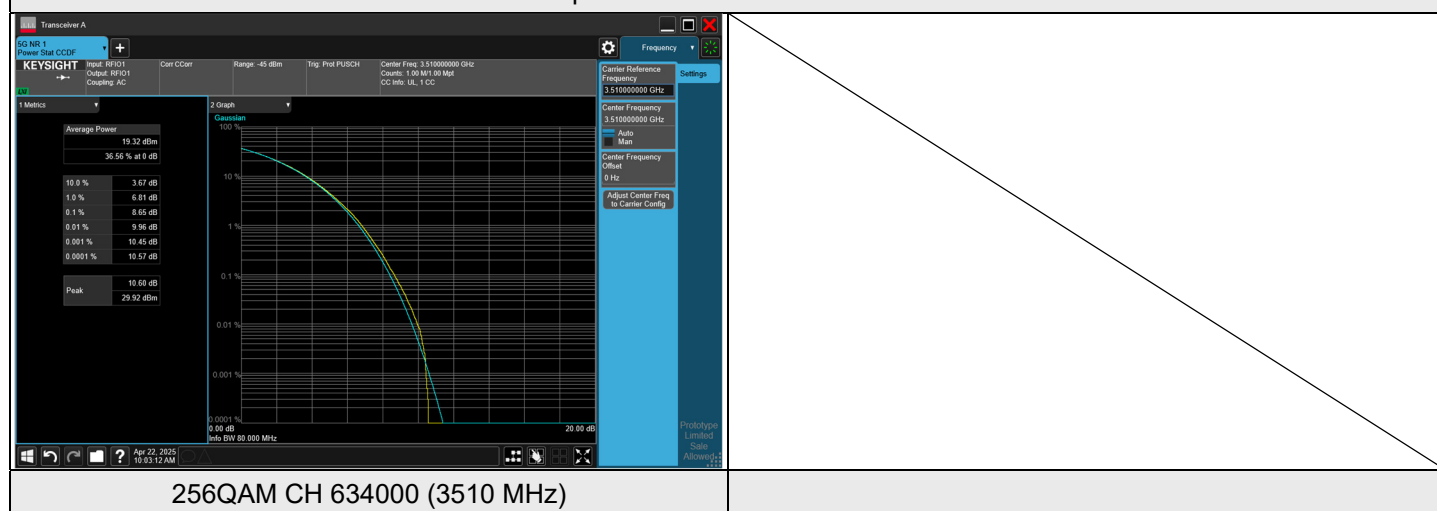
Spectrum Plot of Worst Value



NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 4, Channel Bandwidth: 80 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 632668	CH 633334	CH 634000
			3490.02 MHz	3500.01 MHz	3510 MHz
QPSK	1	216	7.68	7.38	7.73
	1	0	7.88	8.04	8.11
	217	0	7.76	7.78	7.41
16QAM	1	216	7.47	7.19	7.46
	1	0	7.96	7.73	7.94
	217	0	7.75	7.75	8.40
64QAM	1	216	7.52	7.87	7.58
	1	0	7.45	8.25	8.02
	217	0	8.25	7.94	7.54
256QAM	1	216	8.54	8.54	8.17
	1	0	8.56	8.64	8.61
	217	0	8.63	8.61	8.65

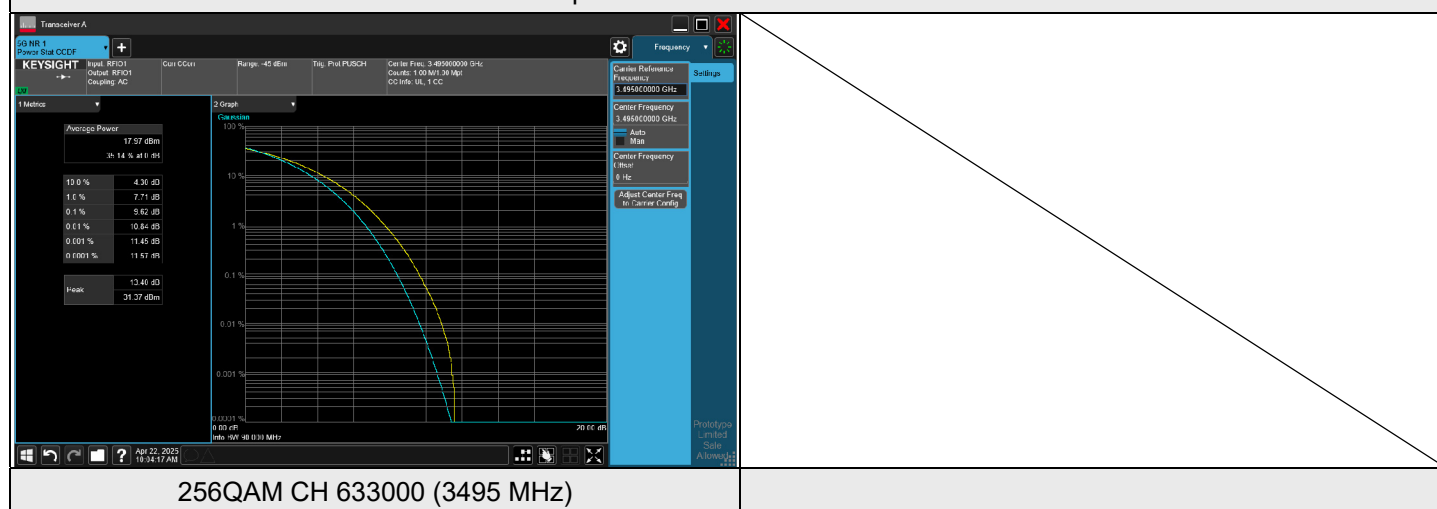
Spectrum Plot of Worst Value



NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 4, Channel Bandwidth: 90 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 633000	CH 633334	CH 633666
			3495 MHz	3500.01 MHz	3504.99 MHz
QPSK	1	244	7.63	7.37	7.64
	1	0	7.97	7.75	8.01
	245	0	8.04	8.03	8.08
16QAM	1	244	7.92	7.81	7.60
	1	0	8.15	8.17	8.52
	245	0	7.99	8.59	8.34
64QAM	1	244	7.83	7.73	7.67
	1	0	8.25	7.93	8.44
	245	0	8.19	8.19	8.51
256QAM	1	244	8.20	8.48	8.06
	1	0	8.61	8.33	8.34
	245	0	9.62	8.82	8.57

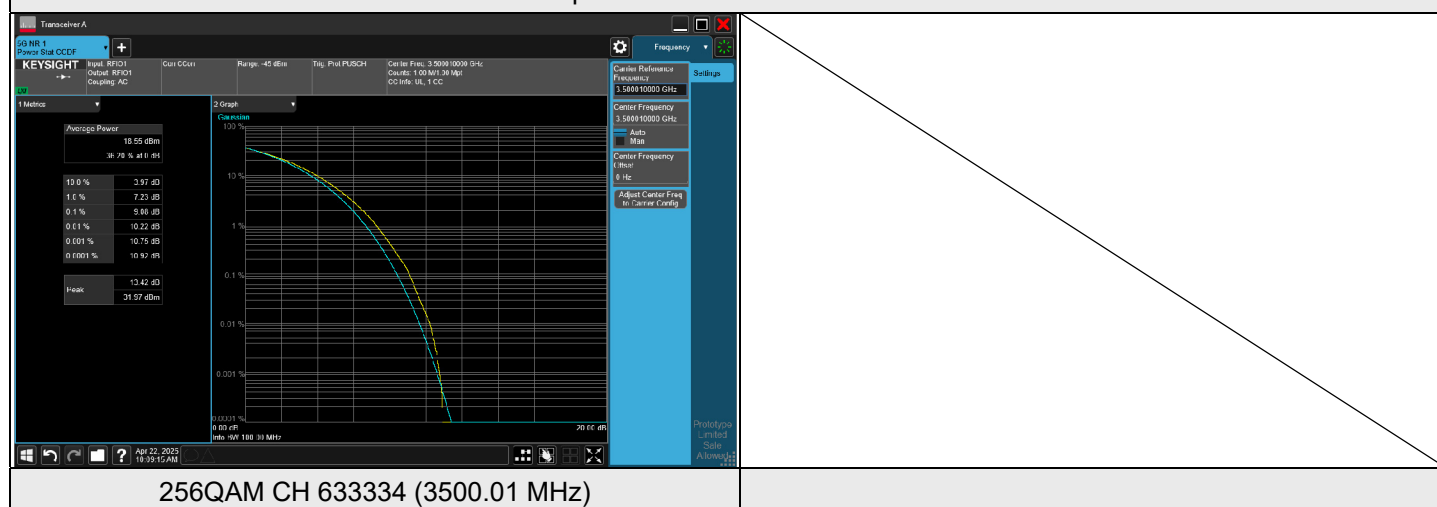
Spectrum Plot of Worst Value



NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 4, Channel Bandwidth: 100 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)
			CH 633334
			3500.01 MHz
QPSK	1	51	6.23
	1	0	6.62
	52	0	5.7
16QAM	1	51	6.14
	1	0	6.8
	52	0	7.02
64QAM	1	51	6.95
	1	0	6.94
	52	0	7.24
256QAM	1	51	8.28
	1	0	8.44
	52	0	9.08

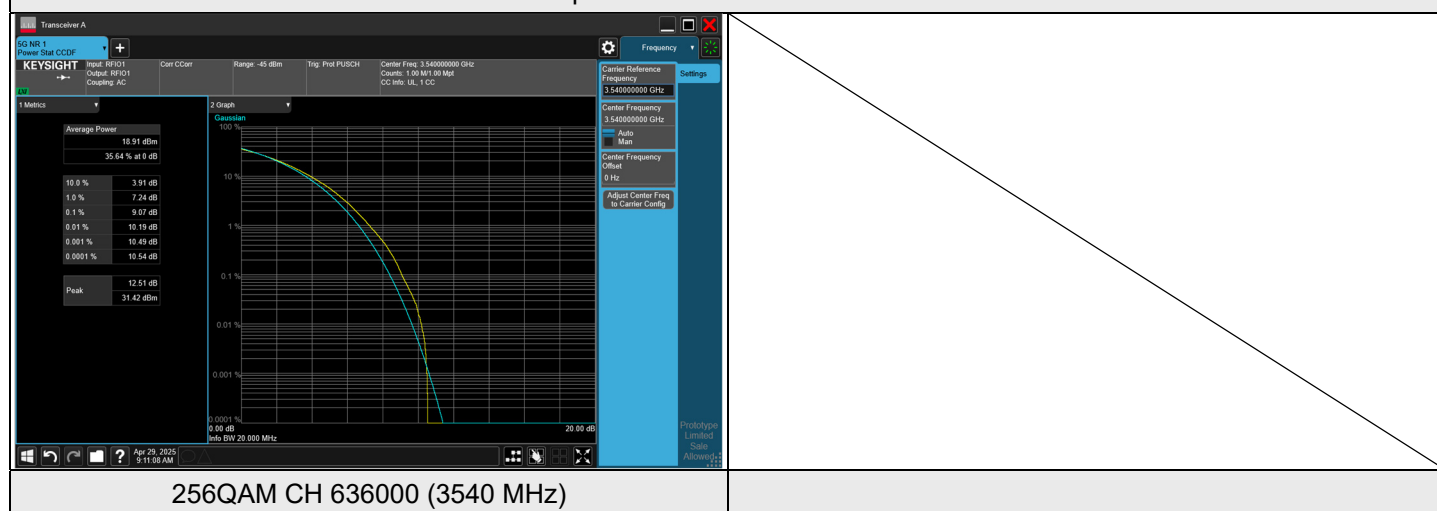
Spectrum Plot of Worst Value



NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 7, Channel Bandwidth: 20 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 630668	CH 633334	CH 636000
			3460.02 MHz	3500.01 MHz	3540 MHz
QPSK	1	50	8.20	8.00	7.70
	1	0	8.29	7.84	7.67
	51	0	7.92	7.84	7.49
16QAM	1	50	8.09	7.45	7.65
	1	0	8.12	7.75	7.58
	51	0	7.79	7.88	7.27
64QAM	1	50	8.29	7.89	7.91
	1	0	8.16	7.64	7.94
	51	0	7.85	7.93	7.61
256QAM	1	50	8.72	8.64	8.69
	1	0	8.87	8.91	8.84
	51	0	8.88	9.01	9.07

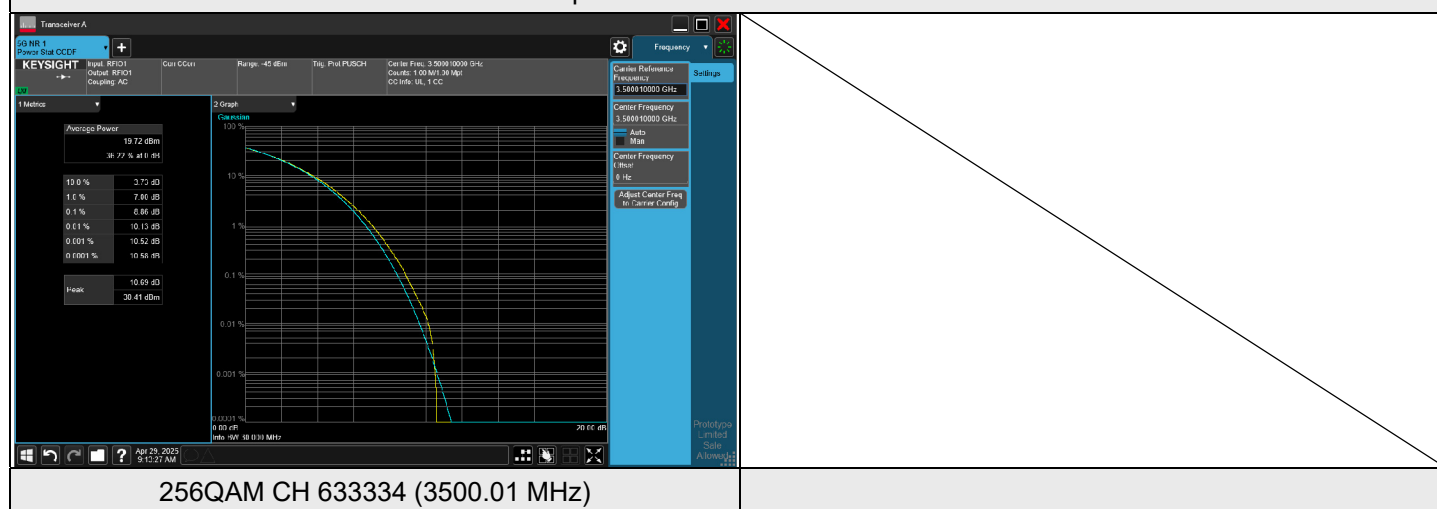
Spectrum Plot of Worst Value



NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 7, Channel Bandwidth: 30 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 631000	CH 633334	CH 635666
			3465 MHz	3500.01 MHz	3534.99 MHz
QPSK	1	77	8.52	8.45	7.57
	1	0	8.1	8.27	7.18
	78	0	8.06	7.69	7.74
16QAM	1	77	7.76	7.92	8.12
	1	0	7.93	8.19	7.71
	78	0	7.41	8.3	7.16
64QAM	1	77	8.35	8.31	8.04
	1	0	8.43	7.85	8.35
	78	0	7.6	7.74	7.74
256QAM	1	77	8.66	8.57	8.8
	1	0	8.51	8.3	8.35
	78	0	8.63	8.86	8.76

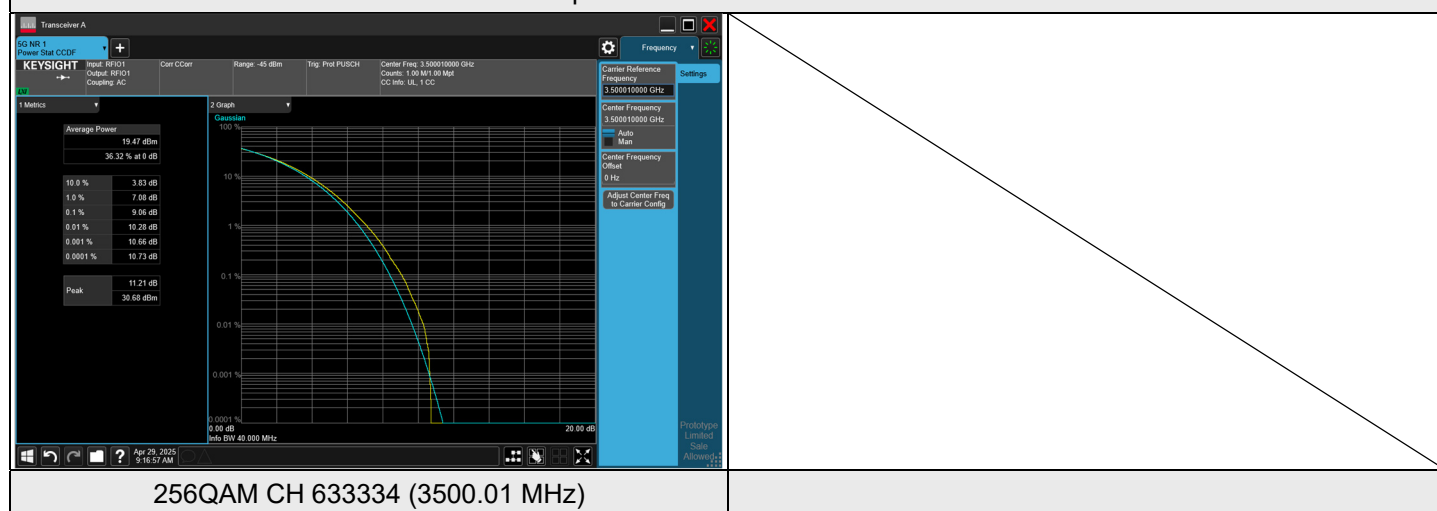
Spectrum Plot of Worst Value



NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 7, Channel Bandwidth: 40 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 631334	CH 633334	CH 635332
			3470.01 MHz	3500.01 MHz	3529.98 MHz
QPSK	1	105	8.29	8.03	7.66
	1	0	8.07	8.04	7.66
	106	0	7.77	7.88	7.72
16QAM	1	105	7.85	7.94	7.60
	1	0	7.74	7.84	8.00
	106	0	8.09	7.92	7.82
64QAM	1	105	7.56	7.75	7.47
	1	0	7.89	7.74	8.11
	106	0	8.10	7.92	8.29
256QAM	1	105	8.76	8.31	8.16
	1	0	8.92	8.60	8.72
	106	0	8.94	9.06	9.05

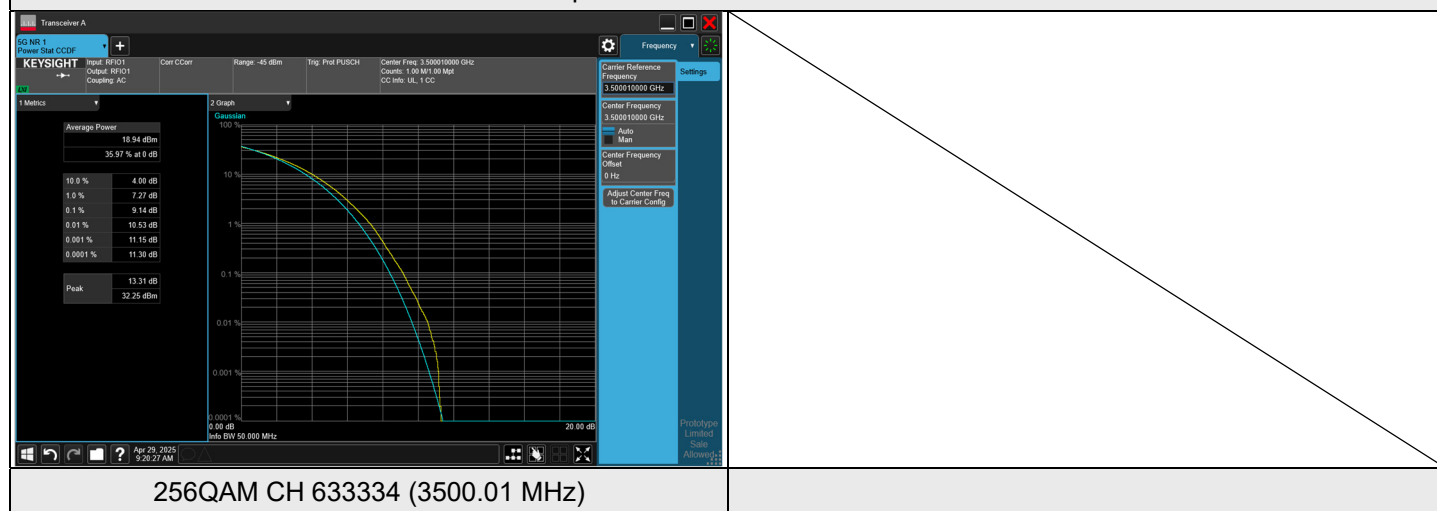
Spectrum Plot of Worst Value



NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 7, Channel Bandwidth: 50 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 631668	CH 633334	CH 635000
			3475.02 MHz	3500.01 MHz	3525 MHz
QPSK	1	132	7.40	7.60	8.05
	1	0	7.58	7.75	7.91
	133	0	7.72	8.28	7.42
16QAM	1	132	7.63	7.69	7.83
	1	0	7.69	7.67	7.81
	133	0	8.04	7.62	7.34
64QAM	1	132	7.88	8.13	8.01
	1	0	7.63	7.85	7.53
	133	0	8.23	7.98	8.46
256QAM	1	132	8.46	8.61	8.57
	1	0	8.90	8.82	8.55
	133	0	9.02	9.14	8.77

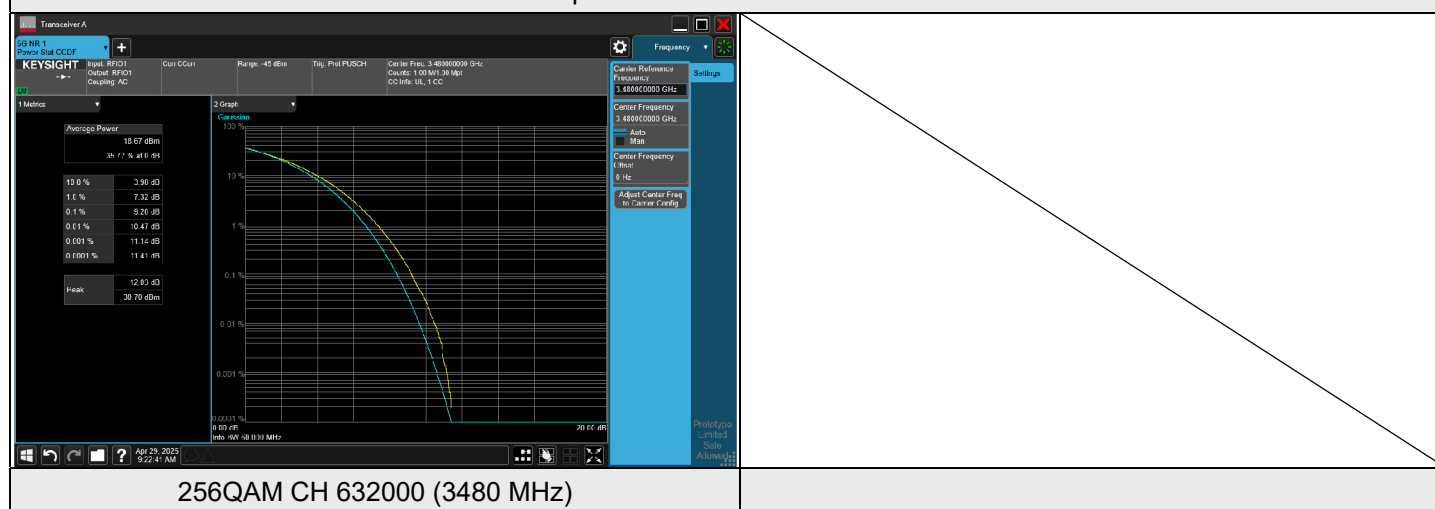
Spectrum Plot of Worst Value



NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 7, Channel Bandwidth: 60 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 632000	CH 633334	CH 634666
			3480 MHz	3500.01 MHz	3519.99 MHz
QPSK	1	161	6.94	7.41	8.2
	1	0	7.84	8.06	7.7
	162	0	7.67	7.91	7.3
16QAM	1	161	7.22	7.5	7.42
	1	0	8.06	7.73	8.21
	162	0	8.03	7.49	7.18
64QAM	1	161	8.04	8.38	7.86
	1	0	7.53	7.88	7.05
	162	0	8.12	7.78	8.86
256QAM	1	161	8.13	8.65	8.57
	1	0	9.20	8.93	8.29
	162	0	8.63	8.96	8.6

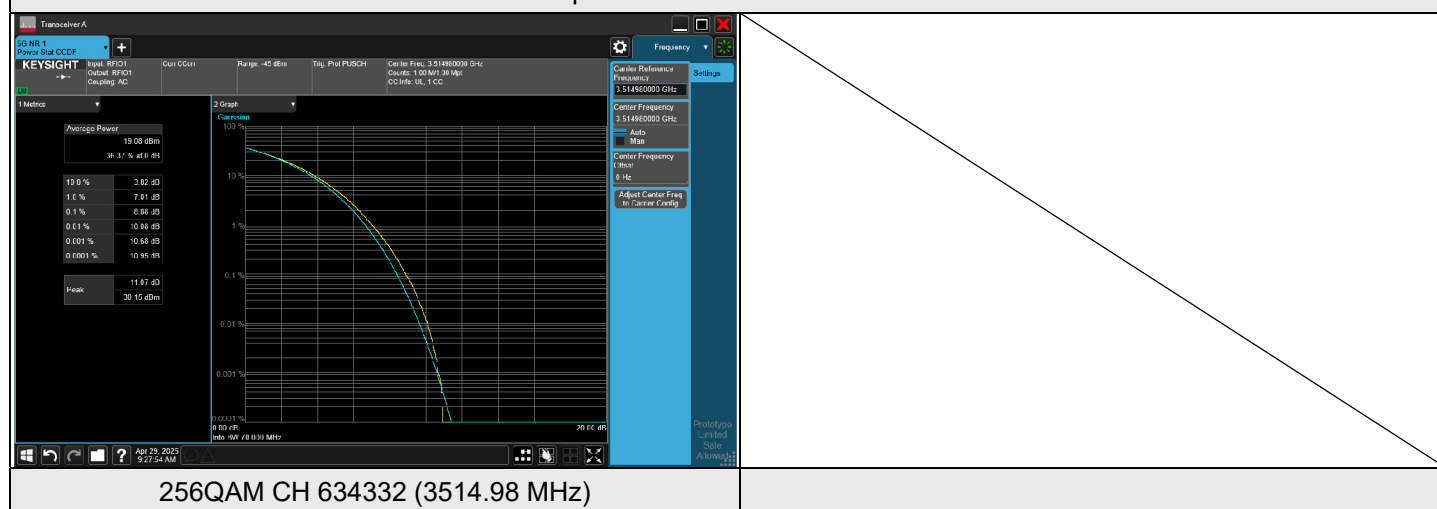
Spectrum Plot of Worst Value



NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 7, Channel Bandwidth: 70 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 632334	CH 633334	CH 634332
			3485.01 MHz	3500.01 MHz	3514.98 MHz
QPSK	1	188	7.37	7.9	8.61
	1	0	7.73	8.55	7.36
	189	0	7.36	8.17	7.31
16QAM	1	188	7.16	7.48	7.29
	1	0	8.33	8.23	8.22
	189	0	8.42	7.58	6.74
64QAM	1	188	8.47	8.85	7.82
	1	0	7.53	8.27	6.66
	189	0	7.77	7.82	8.18
256QAM	1	188	8	8.13	8.88
	1	0	8.73	8.7	7.79
	189	0	8.2	8.81	8.33

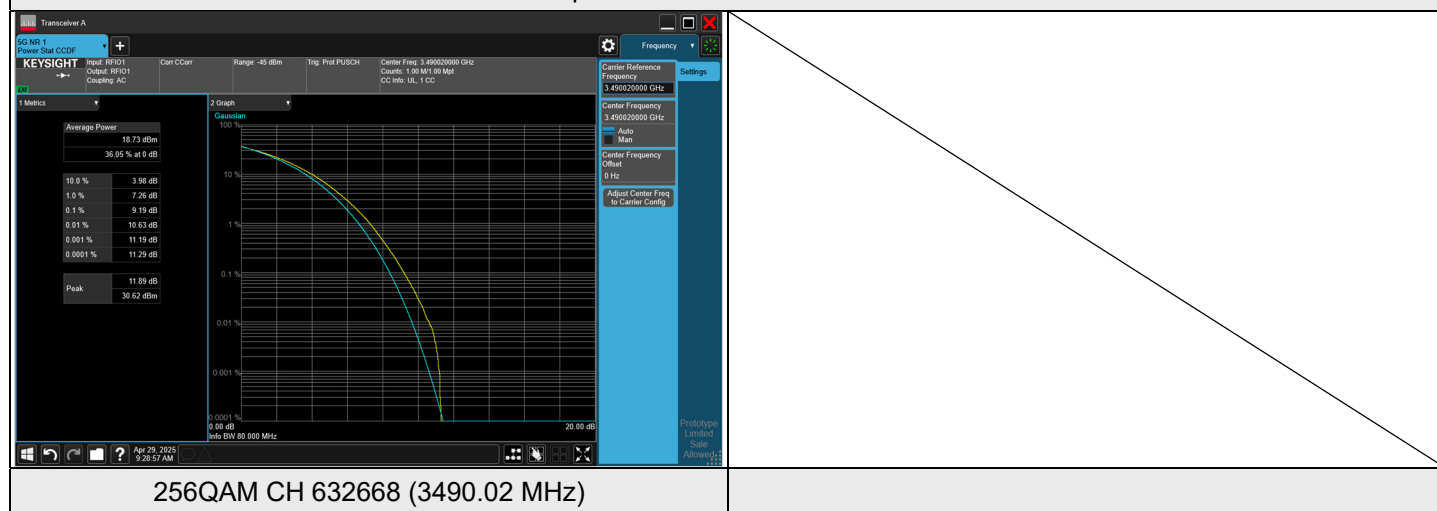
Spectrum Plot of Worst Value



NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 7, Channel Bandwidth: 80 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 632668	CH 633334	CH 634000
			3490.02 MHz	3500.01 MHz	3510 MHz
QPSK	1	216	7.67	7.71	7.46
	1	0	8.10	7.84	8.12
	217	0	7.90	7.17	7.08
16QAM	1	216	8.41	8.01	7.82
	1	0	8.31	8.01	8.03
	217	0	7.88	7.70	7.40
64QAM	1	216	8.02	8.47	8.65
	1	0	7.70	8.32	8.30
	217	0	8.03	7.57	7.52
256QAM	1	216	8.10	8.39	8.60
	1	0	8.51	8.27	8.41
	217	0	9.19	8.72	8.95

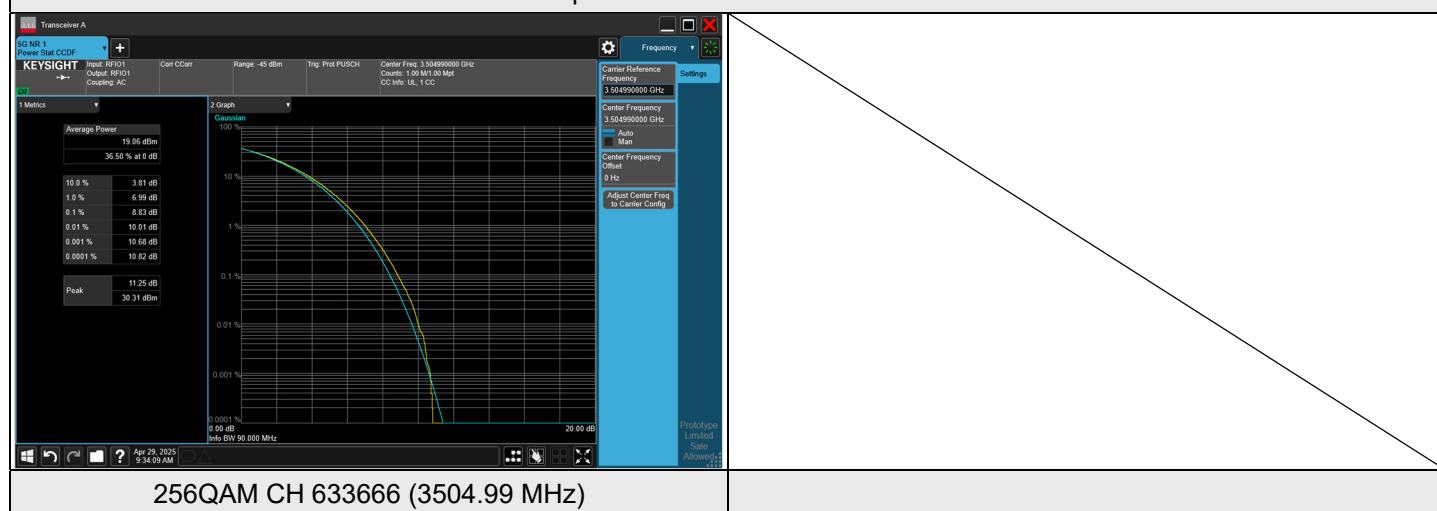
Spectrum Plot of Worst Value



NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 7, Channel Bandwidth: 90 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 633000	CH 633334	CH 633666
			3495 MHz	3500.01 MHz	3504.99 MHz
QPSK	1	244	7.62	7.44	7.74
	1	0	7.76	7.76	8.34
	245	0	8.03	7.87	8.16
16QAM	1	244	7.37	7.80	7.40
	1	0	7.99	8.10	7.87
	245	0	8.37	7.86	8.18
64QAM	1	244	7.47	7.84	8.09
	1	0	8.00	8.04	8.08
	245	0	8.21	8.50	8.54
256QAM	1	244	8.26	8.29	8.23
	1	0	8.47	8.58	8.39
	245	0	8.60	8.60	8.83

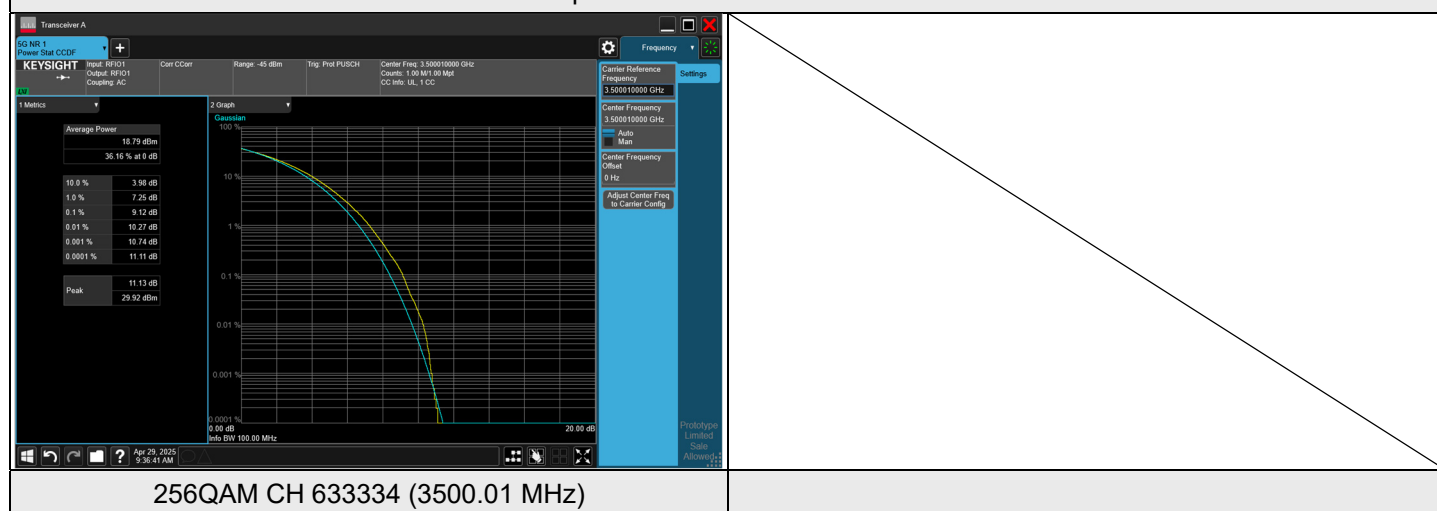
Spectrum Plot of Worst Value



NR n78 SCS 30 kHz (3.45 GHz ~ 3.55 GHz), MIMO-Ant. 7, Channel Bandwidth: 100 MHz

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)
			CH 633334
			3500.01 MHz
QPSK	1	272	7.27
	1	0	7.67
	273	0	8.09
16QAM	1	272	7.68
	1	0	7.90
	273	0	7.84
64QAM	1	272	7.47
	1	0	7.97
	273	0	7.92
256QAM	1	272	8.21
	1	0	8.37
	273	0	9.12

Spectrum Plot of Worst Value



7.4 Bandwidth

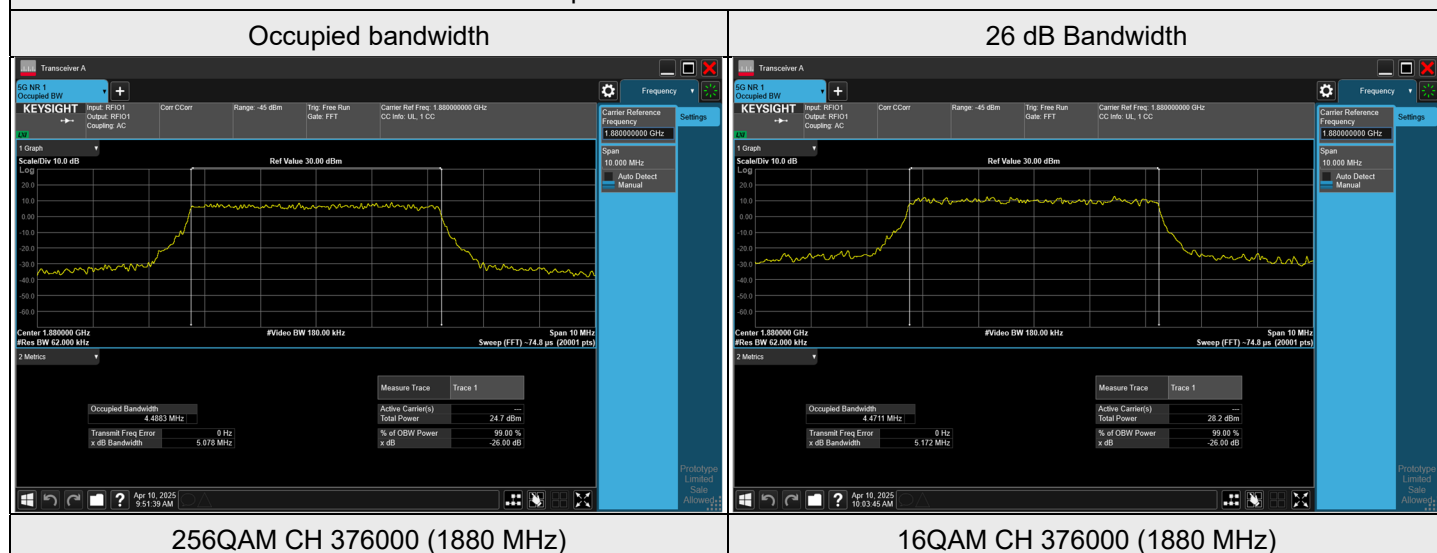
Input Power:	3.85 Vdc	Environmental Conditions:	25°C, 65% RH	Tested By:	Charles Hsiao
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7.4.1 NR n2 SCS 15 kHz

NR n2 SCS 15 kHz, Channel Bandwidth: 5 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	370500	1852.5	4.4874	5.087
BPSK	376000	1880	4.4763	5.068
BPSK	381500	1907.5	4.4678	4.85
QPSK	370500	1852.5	4.4742	5.104
QPSK	376000	1880	4.4653	4.942
QPSK	381500	1907.5	4.4735	4.919
16QAM	370500	1852.5	4.4704	5.121
16QAM	376000	1880	4.4711	5.172
16QAM	381500	1907.5	4.4732	4.906
64QAM	370500	1852.5	4.4745	4.911
64QAM	376000	1880	4.4841	5.043
64QAM	381500	1907.5	4.4805	4.934
256QAM	370500	1852.5	4.4644	4.978
256QAM	376000	1880	4.4883	5.078
256QAM	381500	1907.5	4.4658	4.873

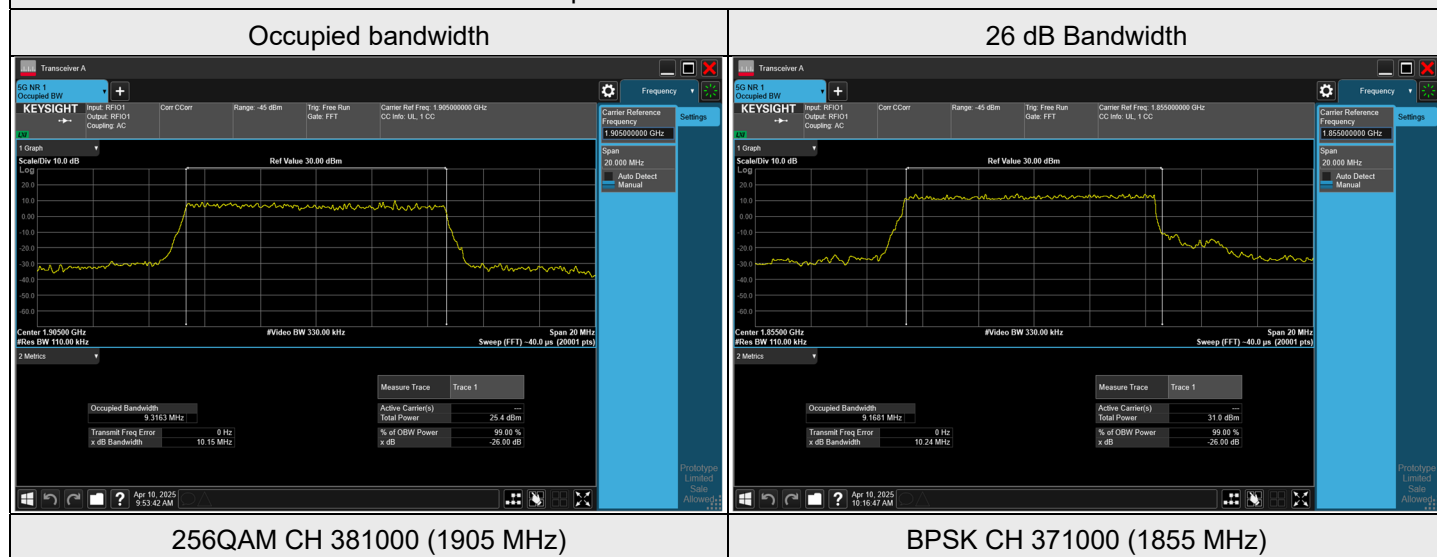
Spectrum Plot of Worst Value



NR n2 SCS 15 kHz, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	371000	1855	9.1681	10.24
BPSK	376000	1880	9.2023	9.640
BPSK	381000	1905	9.2342	9.693
QPSK	371000	1855	9.2886	10.10
QPSK	376000	1880	9.3061	10.17
QPSK	381000	1905	9.3090	10.13
16QAM	371000	1855	9.2889	10.03
16QAM	376000	1880	9.2928	9.945
16QAM	381000	1905	9.2908	9.858
64QAM	371000	1855	9.2609	9.971
64QAM	376000	1880	9.2724	10.10
64QAM	381000	1905	9.2889	10.16
256QAM	371000	1855	9.2926	10.10
256QAM	376000	1880	9.3062	10.20
256QAM	381000	1905	9.3163	10.15

Spectrum Plot of Worst Value



NR n2 SCS 15 kHz, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	371500	1857.5	13.956	14.30
BPSK	376000	1880	14.034	14.19
BPSK	380500	1902.5	14.041	14.18
QPSK	371500	1857.5	14.095	15.16
QPSK	376000	1880	14.095	15.84
QPSK	380500	1902.5	14.100	15.17
16QAM	371500	1857.5	14.092	14.96
16QAM	376000	1880	14.094	14.95
16QAM	380500	1902.5	14.097	15.03
64QAM	371500	1857.5	14.041	14.78
64QAM	376000	1880	14.071	14.91
64QAM	380500	1902.5	14.043	14.79
256QAM	371500	1857.5	14.067	15.01
256QAM	376000	1880	14.082	14.96
256QAM	380500	1902.5	14.068	14.90

Spectrum Plot of Worst Value

