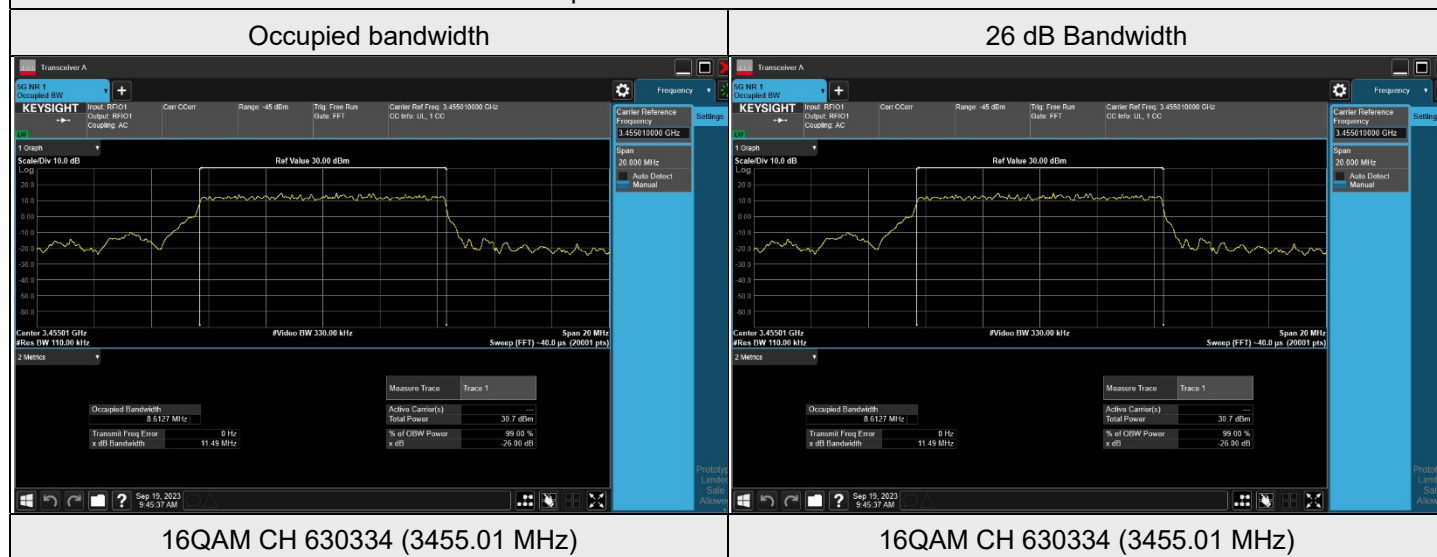


7.4.9 NR n77 (3450-3550 MHz) SCS 30 kHz (PC3)

NR n77 SCS 30 kHz (3450-3550 MHz), Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	630334	3455.01	8.5649	9.339
BPSK	633334	3500.01	8.5423	9.282
BPSK	636332	3544.98	8.5503	9.327
QPSK	630334	3455.01	8.5480	9.128
QPSK	633334	3500.01	8.5444	9.197
QPSK	636332	3544.98	8.5529	9.210
16QAM	630334	3455.01	8.6127	11.49
16QAM	633334	3500.01	8.5722	10.71
16QAM	636332	3544.98	8.5685	9.282
64QAM	630334	3455.01	8.5801	9.329
64QAM	633334	3500.01	8.5746	9.338
64QAM	636332	3544.98	8.5609	9.386
256QAM	630334	3455.01	8.5668	9.414
256QAM	633334	3500.01	8.5860	9.382
256QAM	636332	3544.98	8.5704	9.391

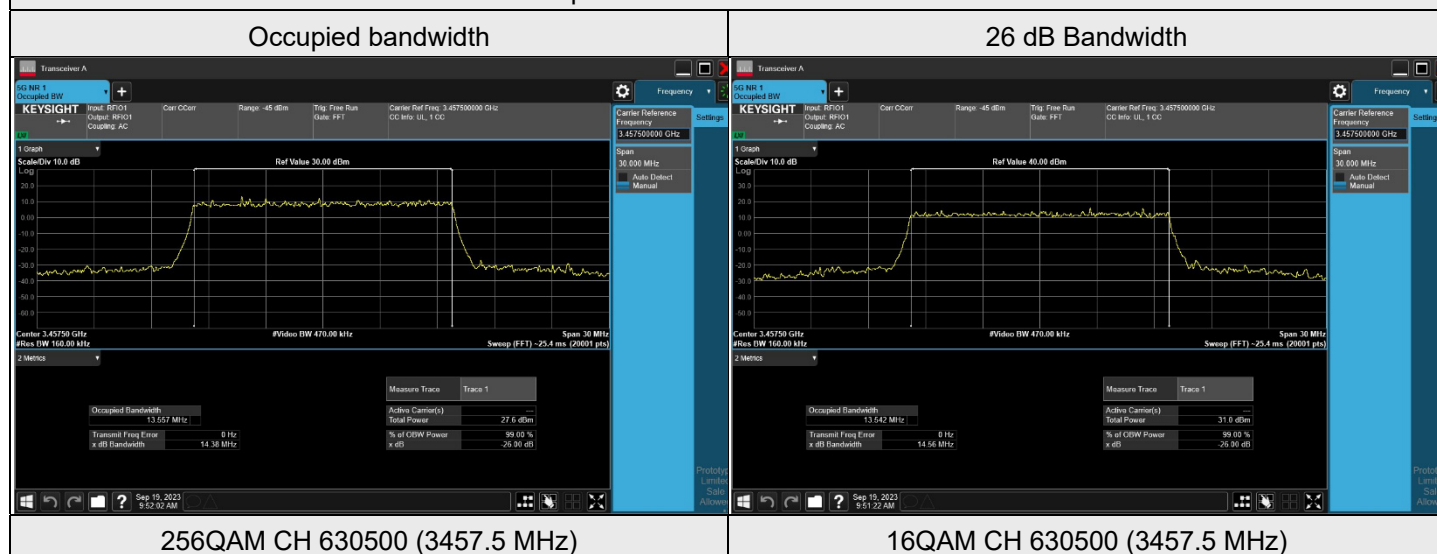
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3450-3550 MHz), Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	630500	3457.5	13.501	13.97
BPSK	633334	3500.01	13.551	13.97
BPSK	636166	3542.49	13.510	13.83
QPSK	630500	3457.5	13.537	14.44
QPSK	633334	3500.01	13.540	14.55
QPSK	636166	3542.49	13.531	14.39
16QAM	630500	3457.5	13.542	14.56
16QAM	633334	3500.01	13.539	14.51
16QAM	636166	3542.49	13.531	14.49
64QAM	630500	3457.5	13.536	14.51
64QAM	633334	3500.01	13.522	14.51
64QAM	636166	3542.49	13.546	14.44
256QAM	630500	3457.5	13.557	14.38
256QAM	633334	3500.01	13.552	14.45
256QAM	636166	3542.49	13.528	14.51

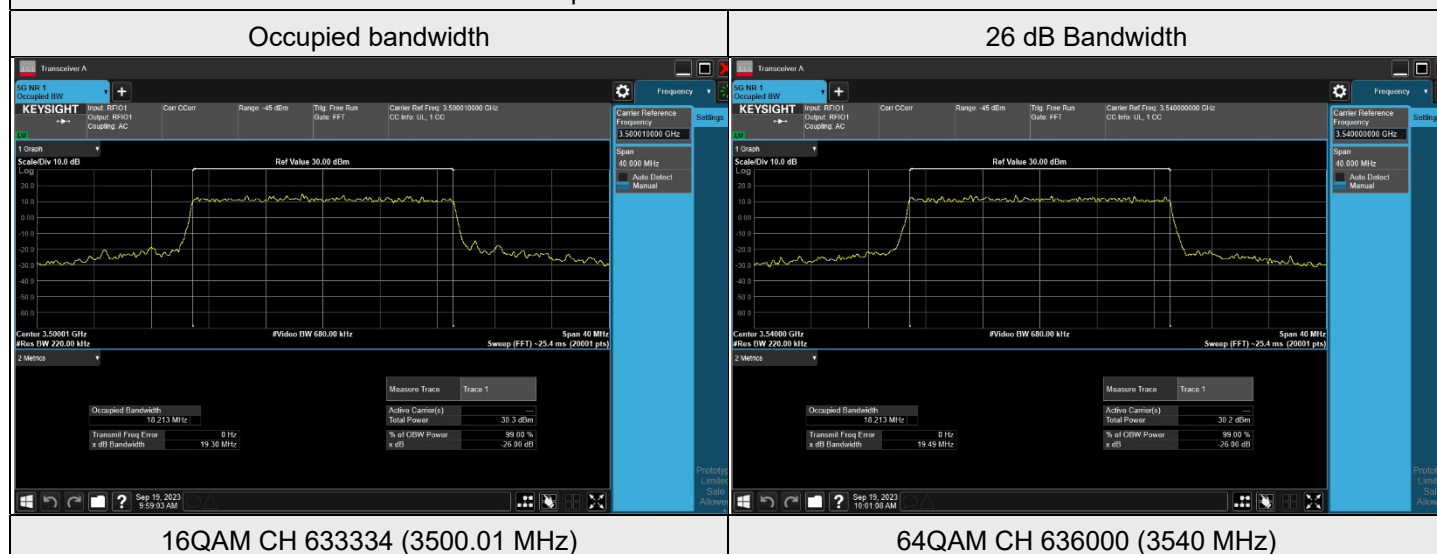
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3450-3550 MHz), Channel Bandwidth: 20 MHz

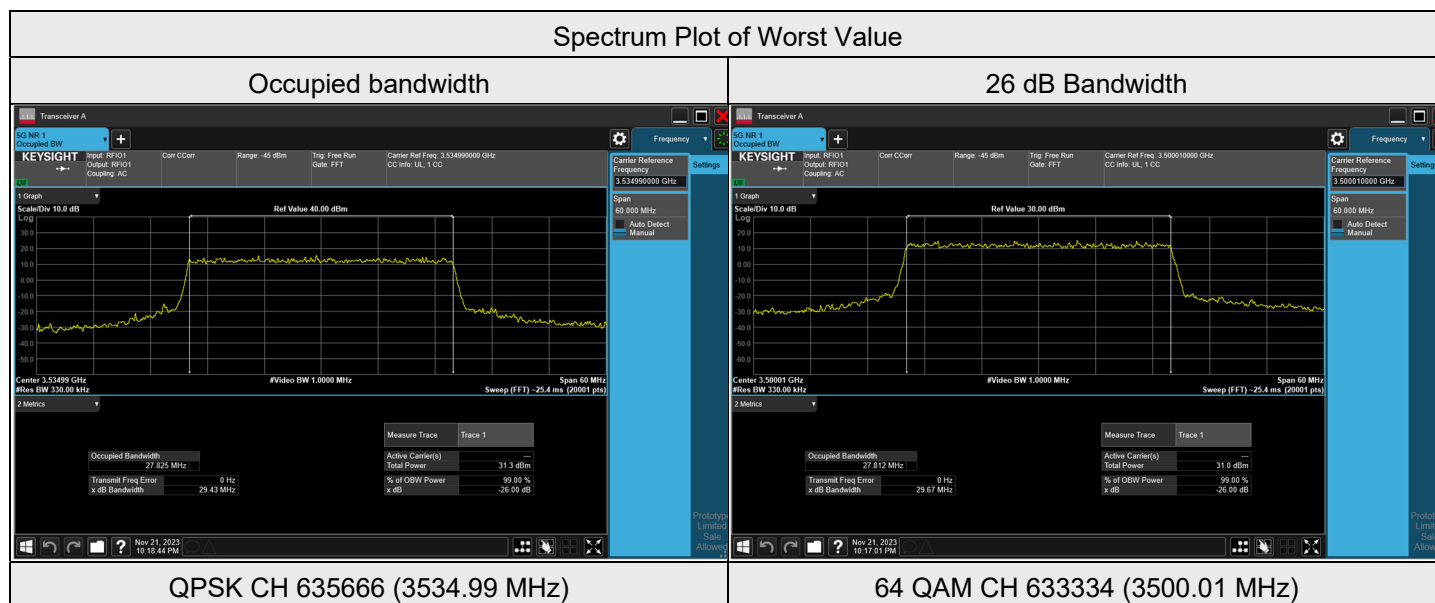
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	630668	3460.02	17.937	19.16
BPSK	633334	3500.01	17.962	19.03
BPSK	636000	3540	17.949	19.15
QPSK	630668	3460.02	18.148	19.21
QPSK	633334	3500.01	18.182	19.21
QPSK	636000	3540	18.133	19.35
16QAM	630668	3460.02	18.173	19.35
16QAM	633334	3500.01	18.213	19.30
16QAM	636000	3540	18.176	19.35
64QAM	630668	3460.02	18.152	19.19
64QAM	633334	3500.01	18.201	19.30
64QAM	636000	3540	18.213	19.49
256QAM	630668	3460.02	18.177	19.23
256QAM	633334	3500.01	18.133	19.33
256QAM	636000	3540	18.158	19.37

Spectrum Plot of Worst Value



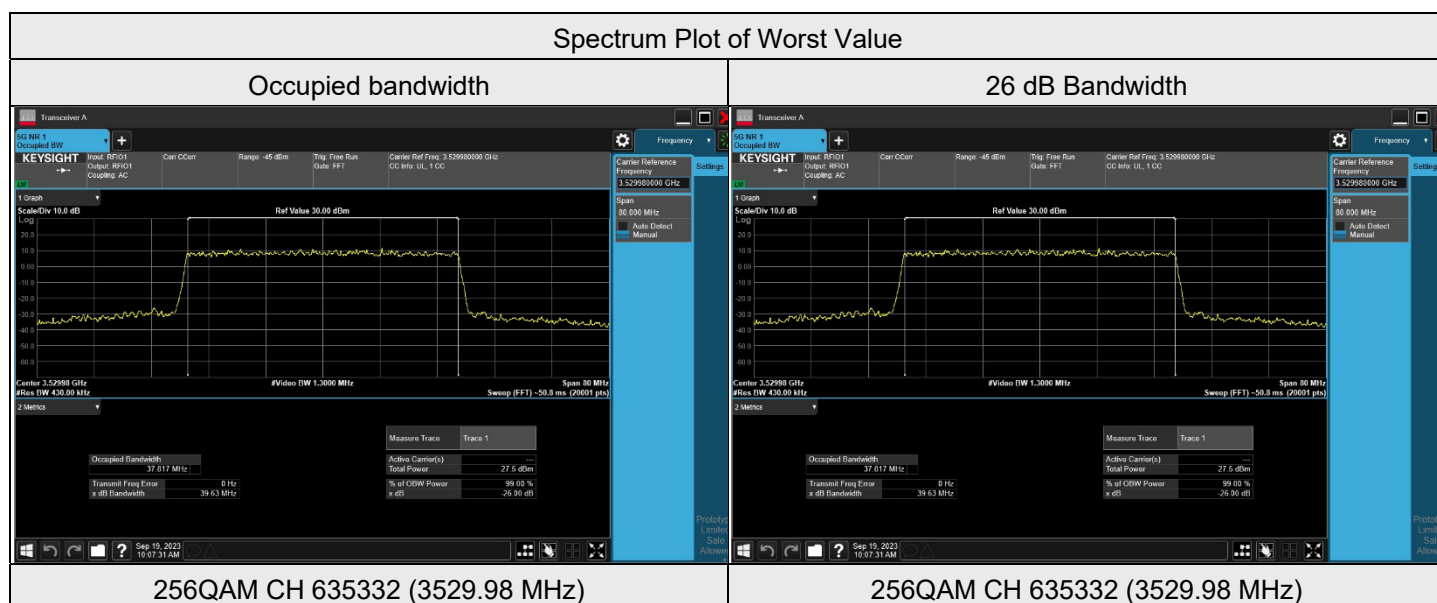
NR n77 SCS 30 kHz (3450-3550 MHz), Channel Bandwidth: 30 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	631000	3465	27.474	28.63
BPSK	633334	3500.01	27.588	28.57
BPSK	635666	3534.99	27.571	28.56
QPSK	631000	3465	27.824	29.53
QPSK	633334	3500.01	27.782	29.58
QPSK	635666	3534.99	27.825	29.43
16QAM	631000	3465	27.735	29.29
16QAM	633334	3500.01	27.733	29.27
16QAM	635666	3534.99	27.764	29.36
64QAM	631000	3465	27.823	29.65
64QAM	633334	3500.01	27.812	29.67
64QAM	635666	3534.99	27.763	29.67
256QAM	631000	3465	27.750	29.39
256QAM	633334	3500.01	27.776	29.47
256QAM	635666	3534.99	27.752	29.44



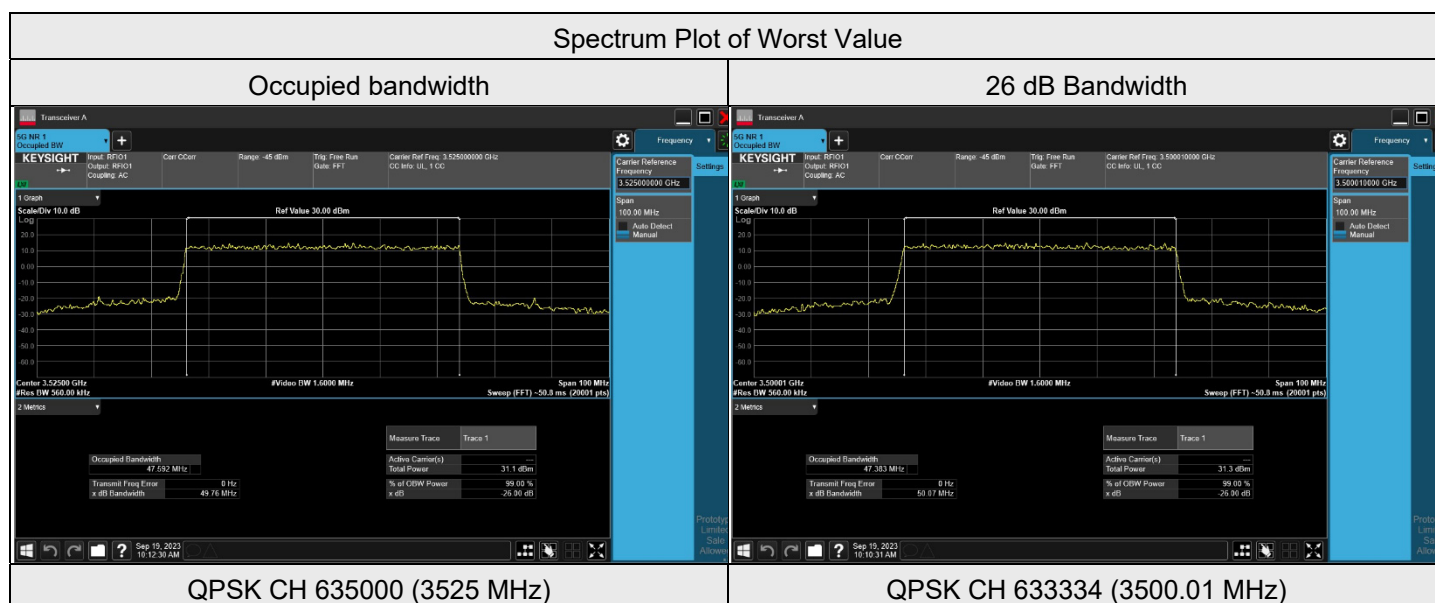
NR n77 SCS 30 kHz (3450-3550 MHz), Channel Bandwidth: 40 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	631334	3470.01	37.340	37.22
BPSK	633334	3500.01	37.394	37.36
BPSK	635332	3529.98	37.378	37.77
QPSK	631334	3470.01	37.690	39.49
QPSK	633334	3500.01	37.722	39.05
QPSK	635332	3529.98	37.707	39.51
16QAM	631334	3470.01	37.714	39.59
16QAM	633334	3500.01	37.784	39.50
16QAM	635332	3529.98	37.763	39.44
64QAM	631334	3470.01	37.642	39.58
64QAM	633334	3500.01	37.692	39.48
64QAM	635332	3529.98	37.681	39.39
256QAM	631334	3470.01	37.732	39.61
256QAM	633334	3500.01	37.769	39.62
256QAM	635332	3529.98	37.817	39.63



NR n77 SCS 30 kHz (3450-3550 MHz), Channel Bandwidth: 50 MHz

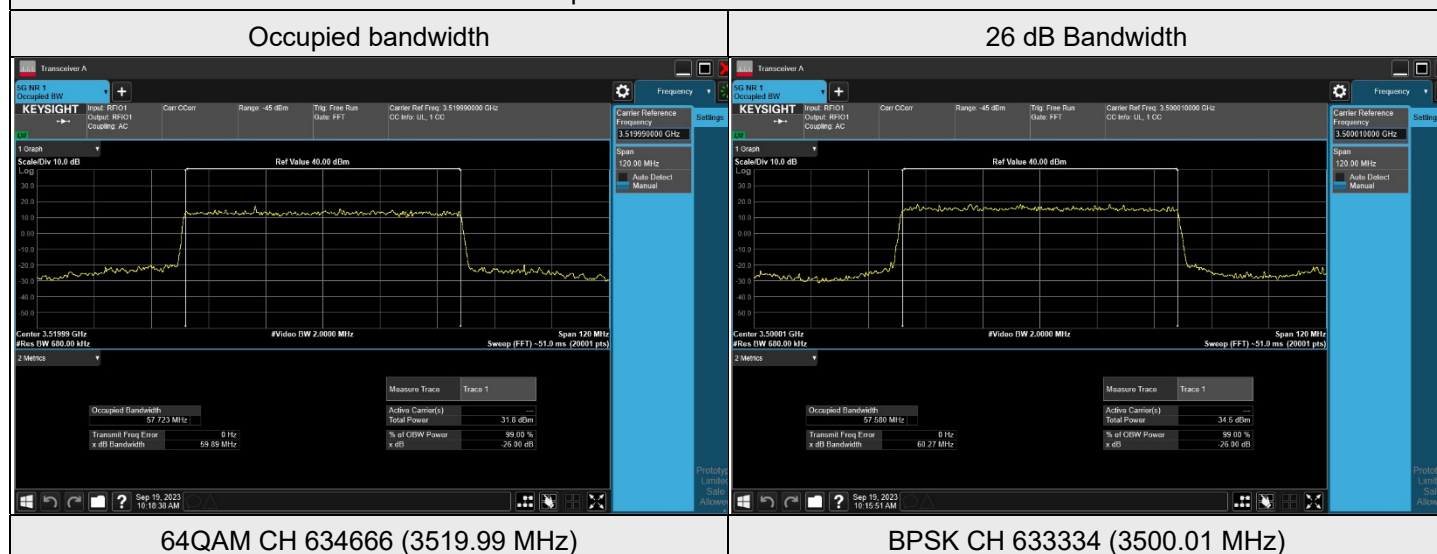
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	631668	3475.02	46.782	48.08
BPSK	633334	3500.01	46.852	47.97
BPSK	635000	3525	46.793	47.85
QPSK	631668	3475.02	47.393	49.66
QPSK	633334	3500.01	47.383	50.07
QPSK	635000	3525	47.592	49.76
16QAM	631668	3475.02	47.334	49.74
16QAM	633334	3500.01	47.422	49.93
16QAM	635000	3525	47.271	49.82
64QAM	631668	3475.02	47.354	49.74
64QAM	633334	3500.01	47.400	49.65
64QAM	635000	3525	47.404	49.82
256QAM	631668	3475.02	47.312	49.62
256QAM	633334	3500.01	47.341	49.80
256QAM	635000	3525	47.334	49.61



NR n77 SCS 30 kHz (3450-3550 MHz), Channel Bandwidth: 60 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	632000	3480	57.565	60.14
BPSK	633334	3500.01	57.580	60.27
BPSK	634666	3519.99	57.603	60.12
QPSK	632000	3480	57.530	59.94
QPSK	633334	3500.01	57.578	59.93
QPSK	634666	3519.99	57.662	59.88
16QAM	632000	3480	57.553	60.01
16QAM	633334	3500.01	57.565	60.04
16QAM	634666	3519.99	57.625	60.13
64QAM	632000	3480	57.601	60.03
64QAM	633334	3500.01	57.666	59.98
64QAM	634666	3519.99	57.723	59.89
256QAM	632000	3480	57.601	60.04
256QAM	633334	3500.01	57.651	60.10
256QAM	634666	3519.99	57.685	60.08

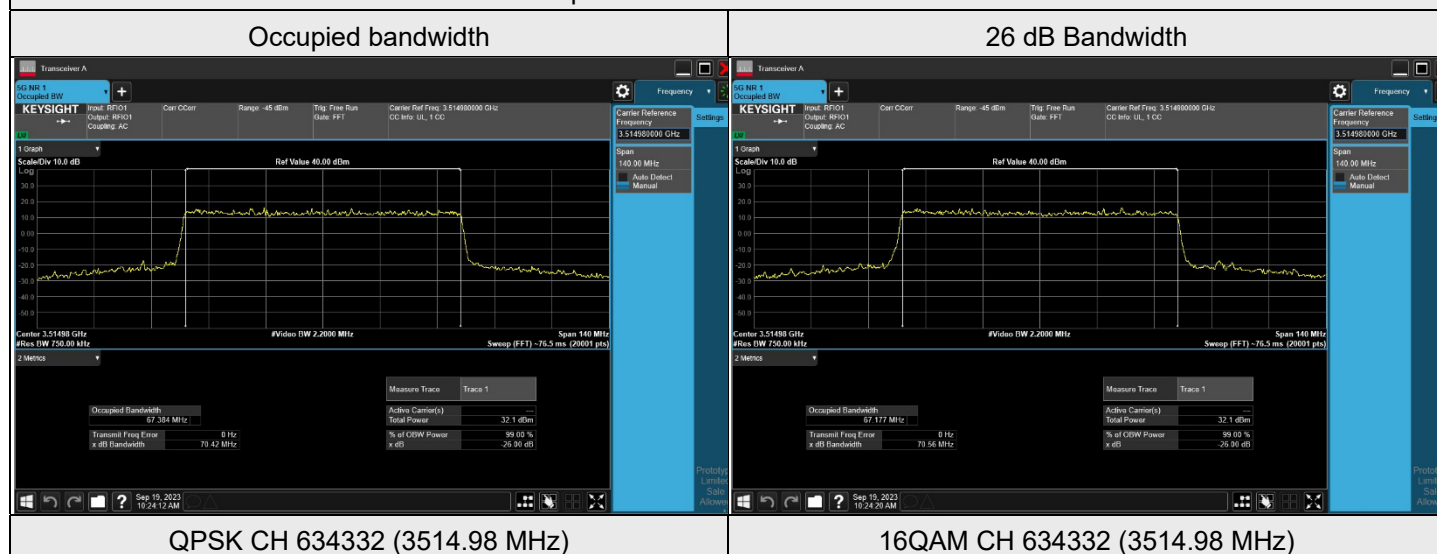
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3450-3550 MHz), Channel Bandwidth: 70 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	632334	3485.01	66.476	67.37
BPSK	633334	3500.01	66.743	67.19
BPSK	634332	3514.98	66.687	67.31
QPSK	632334	3485.01	67.193	70.42
QPSK	633334	3500.01	67.234	70.28
QPSK	634332	3514.98	67.384	70.42
16QAM	632334	3485.01	67.290	70.33
16QAM	633334	3500.01	67.384	70.31
16QAM	634332	3514.98	67.177	70.56
64QAM	632334	3485.01	67.187	70.22
64QAM	633334	3500.01	67.272	70.24
64QAM	634332	3514.98	67.216	70.04
256QAM	632334	3485.01	67.287	70.07
256QAM	633334	3500.01	67.317	70.54
256QAM	634332	3514.98	67.258	70.09

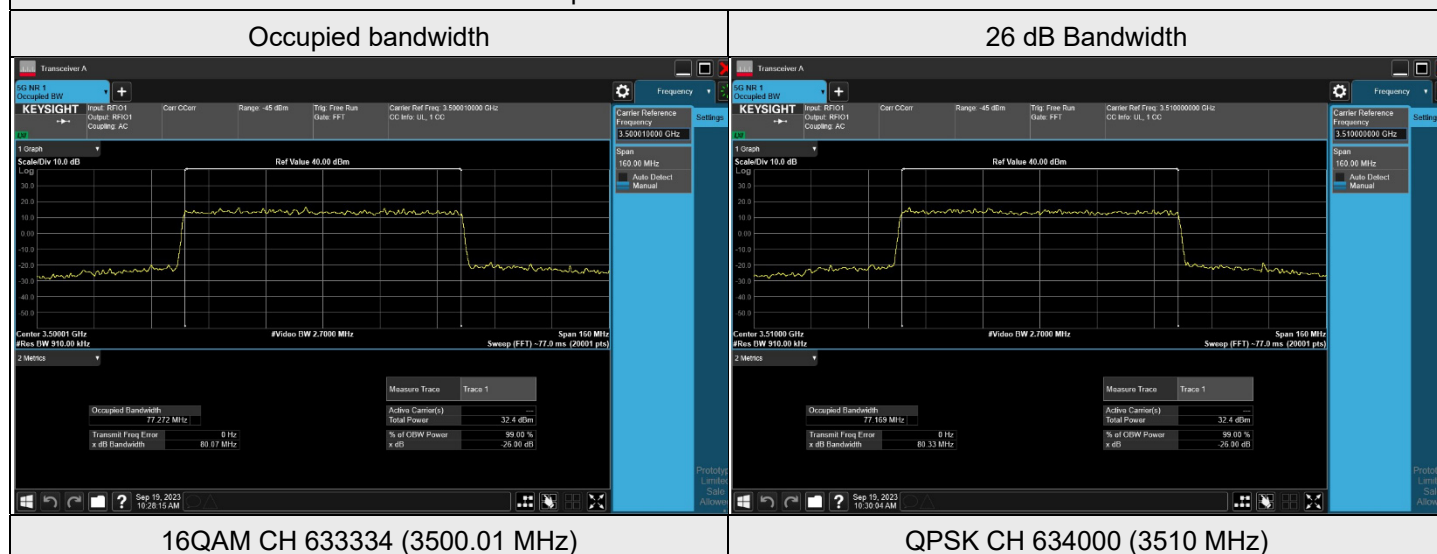
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3450-3550 MHz), Channel Bandwidth: 80 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	632668	3490.02	77.026	79.95
BPSK	633334	3500.01	76.817	80.08
BPSK	634000	3510	77.064	80.03
QPSK	632668	3490.02	77.091	80.32
QPSK	633334	3500.01	77.189	80.25
QPSK	634000	3510	77.169	80.33
16QAM	632668	3490.02	77.056	80.23
16QAM	633334	3500.01	77.272	80.07
16QAM	634000	3510	77.251	80.27
64QAM	632668	3490.02	77.105	80.02
64QAM	633334	3500.01	77.252	80.33
64QAM	634000	3510	77.190	79.87
256QAM	632668	3490.02	76.966	80.32
256QAM	633334	3500.01	77.009	80.10
256QAM	634000	3510	77.206	80.32

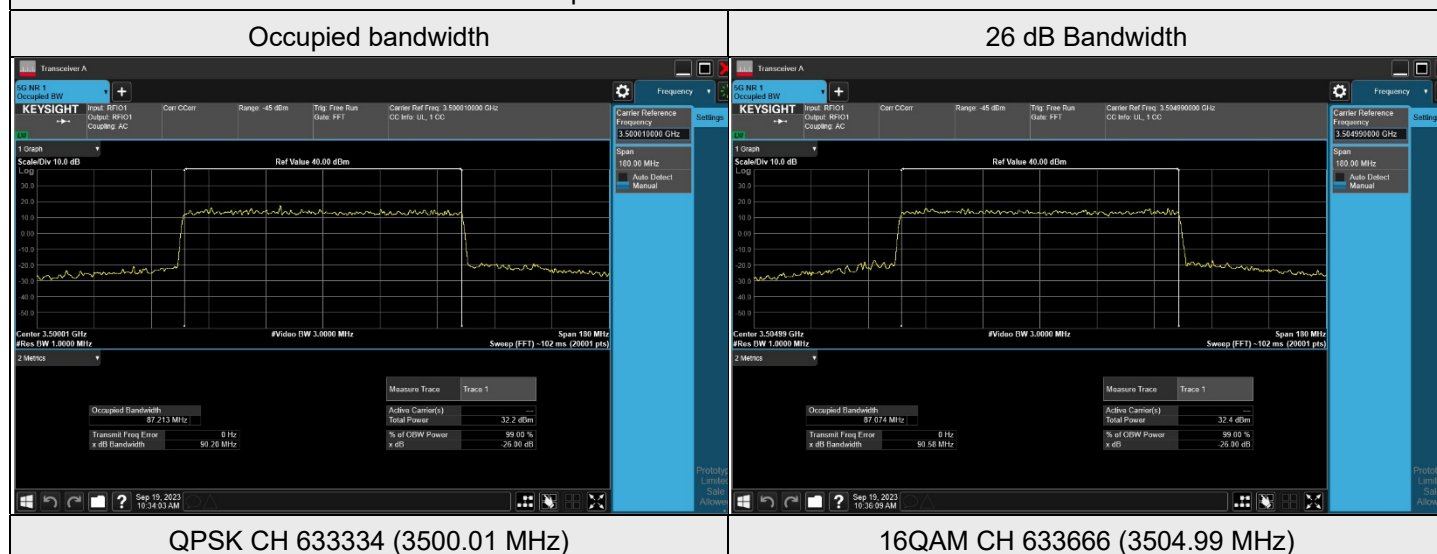
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3450-3550 MHz), Channel Bandwidth: 90 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	633000	3495	86.803	89.67
BPSK	633334	3500.01	86.805	89.57
BPSK	633666	3504.99	86.745	89.53
QPSK	633000	3495	87.158	90.39
QPSK	633334	3500.01	87.213	90.20
QPSK	633666	3504.99	87.210	90.43
16QAM	633000	3495	86.999	90.09
16QAM	633334	3500.01	86.998	90.40
16QAM	633666	3504.99	87.074	90.58
64QAM	633000	3495	87.021	90.15
64QAM	633334	3500.01	87.072	90.24
64QAM	633666	3504.99	87.102	90.36
256QAM	633000	3495	86.871	90.25
256QAM	633334	3500.01	87.069	90.56
256QAM	633666	3504.99	87.108	90.47

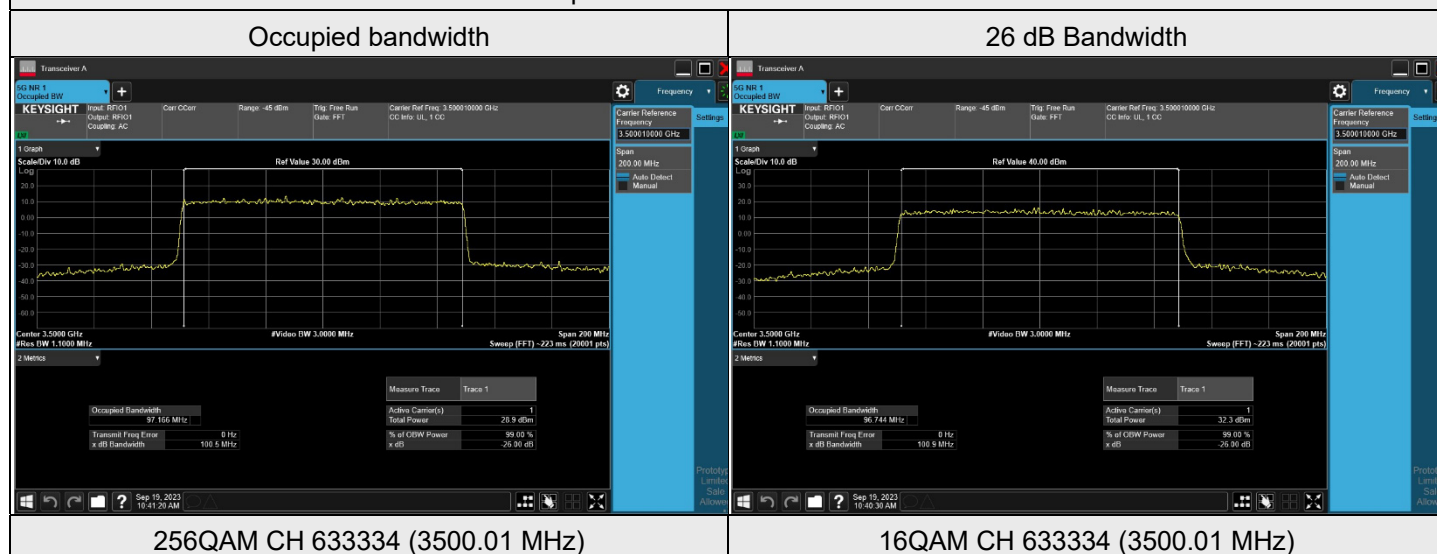
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3450-3550 MHz), Channel Bandwidth: 100 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	633334	3500.01	96.104	99.66
BPSK	633334	3500.01	96.302	99.85
BPSK	633334	3500.01	96.323	100.3
QPSK	633334	3500.01	96.723	100.4
QPSK	633334	3500.01	96.849	100.4
QPSK	633334	3500.01	96.800	100.2
16QAM	633334	3500.01	96.941	100.6
16QAM	633334	3500.01	96.730	100.6
16QAM	633334	3500.01	96.744	100.9
64QAM	633334	3500.01	97.086	100.6
64QAM	633334	3500.01	96.949	100.6
64QAM	633334	3500.01	96.982	100.7
256QAM	633334	3500.01	97.102	100.6
256QAM	633334	3500.01	97.166	100.5
256QAM	633334	3500.01	96.748	100.4

Spectrum Plot of Worst Value

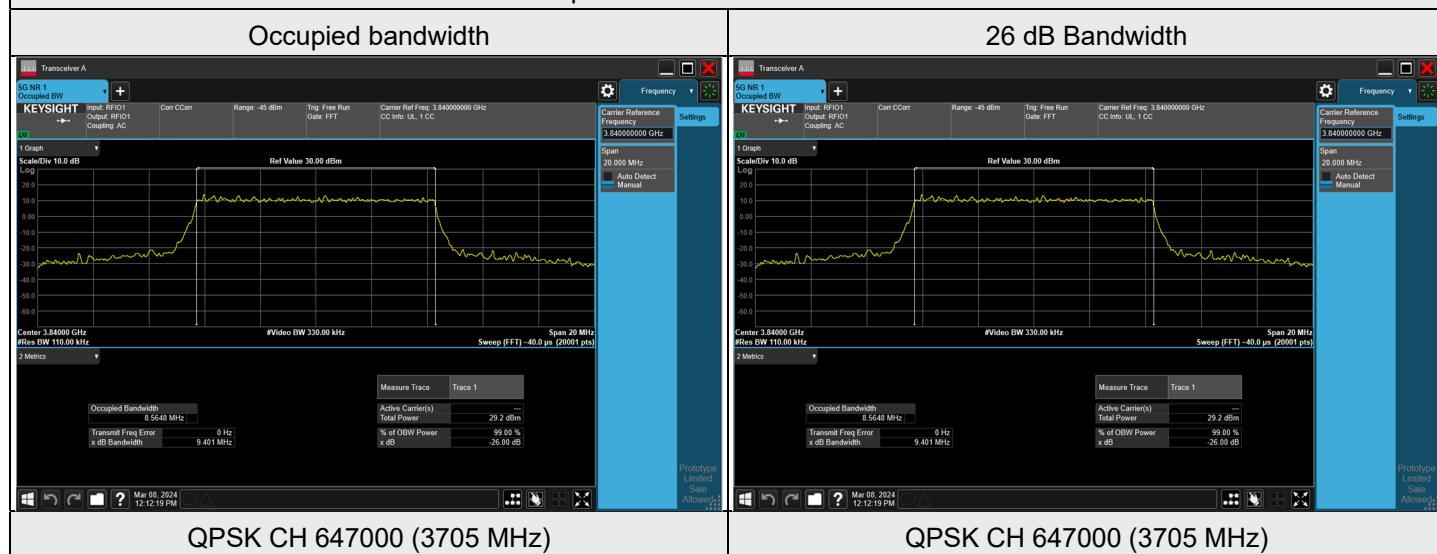


7.4.10 NR n77 (3700-3980 MHz) SCS 30 kHz (PC2)

NR n77 SCS 30 kHz (3700-3980 MHz), Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	647000	3705	8.5410	9.419
BPSK	656000	3840	8.5362	9.249
BPSK	665000	3975	8.5361	9.295
QPSK	647000	3705	8.5765	9.475
QPSK	656000	3840	8.5648	9.401
QPSK	665000	3975	8.5627	9.318
16 QAM	647000	3705	8.5562	9.111
16 QAM	656000	3840	8.5607	9.320
16 QAM	665000	3975	8.5705	9.243
64 QAM	647000	3705	8.5605	9.340
64 QAM	656000	3840	8.5741	9.413
64 QAM	665000	3975	8.5702	9.260
256 QAM	647000	3705	8.5468	9.351
256 QAM	656000	3840	8.5728	9.341
256 QAM	665000	3975	8.5560	9.468

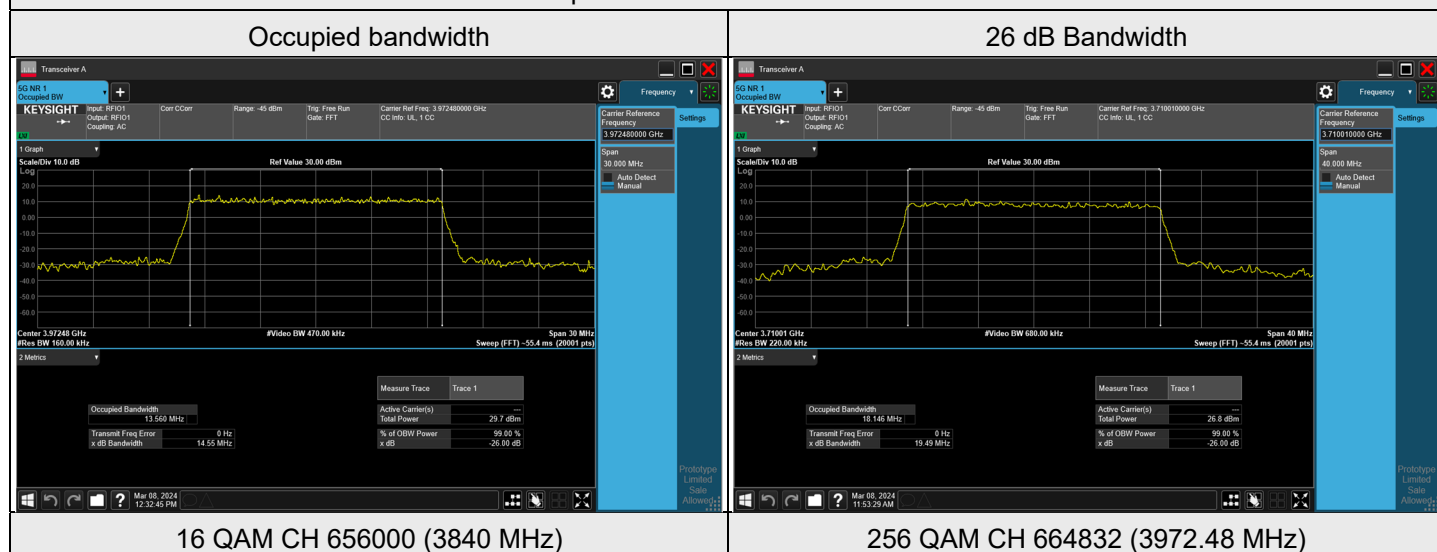
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3700-3980 MHz), Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	647168	3707.52	13.495	13.70
BPSK	656000	3840	13.512	13.91
BPSK	664832	3972.48	13.435	13.88
QPSK	647168	3707.52	13.528	14.44
QPSK	656000	3840	13.545	14.58
QPSK	664832	3972.48	13.528	14.61
16 QAM	647168	3707.52	13.561	14.60
16 QAM	656000	3840	13.573	14.56
16 QAM	664832	3972.48	13.560	14.55
64 QAM	647168	3707.52	13.527	14.46
64 QAM	656000	3840	13.543	14.45
64 QAM	664832	3972.48	13.536	14.45
256 QAM	647168	3707.52	13.507	14.43
256 QAM	656000	3840	13.551	14.47
256 QAM	664832	3972.48	13.558	14.67

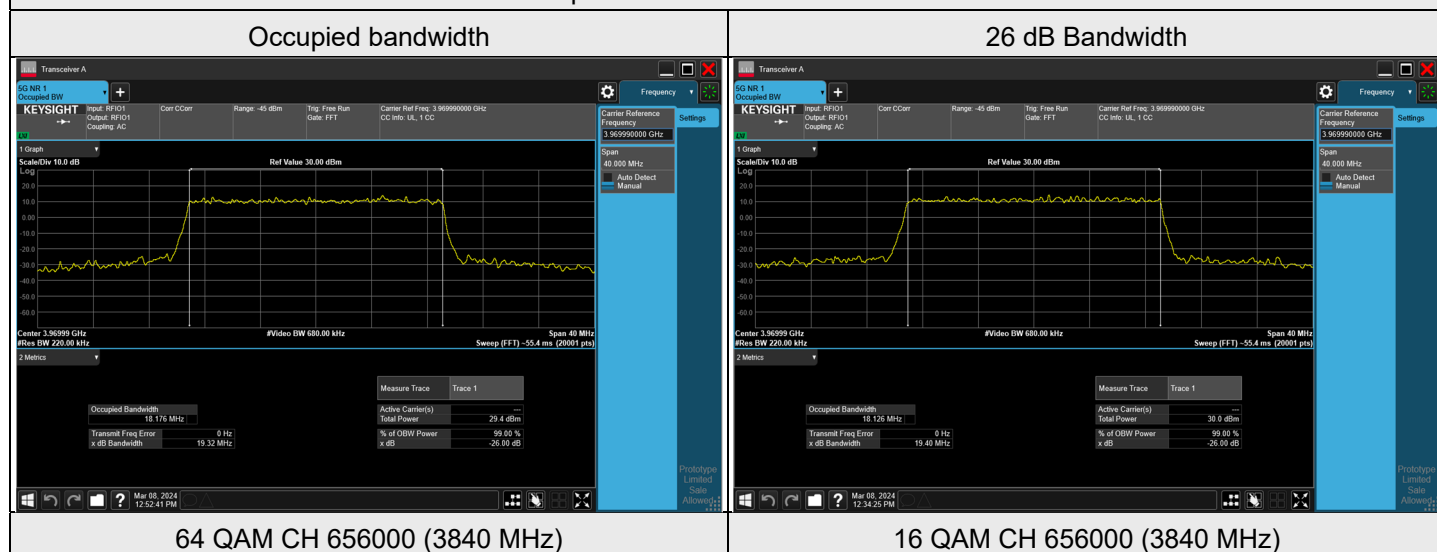
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3700-3980 MHz), Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	647334	3710.01	17.949	18.85
BPSK	656000	3840	17.984	19.03
BPSK	664666	3969.99	17.977	19.13
QPSK	647334	3710.01	18.154	19.20
QPSK	656000	3840	18.172	19.28
QPSK	664666	3969.99	18.164	19.53
16 QAM	647334	3710.01	18.113	19.27
16 QAM	656000	3840	18.189	19.58
16 QAM	664666	3969.99	18.126	19.40
64 QAM	647334	3710.01	18.177	19.29
64 QAM	656000	3840	18.193	19.54
64 QAM	664666	3969.99	18.176	19.32
256 QAM	647334	3710.01	18.146	19.49
256 QAM	656000	3840	18.161	19.31
256 QAM	664666	3969.99	18.160	19.40

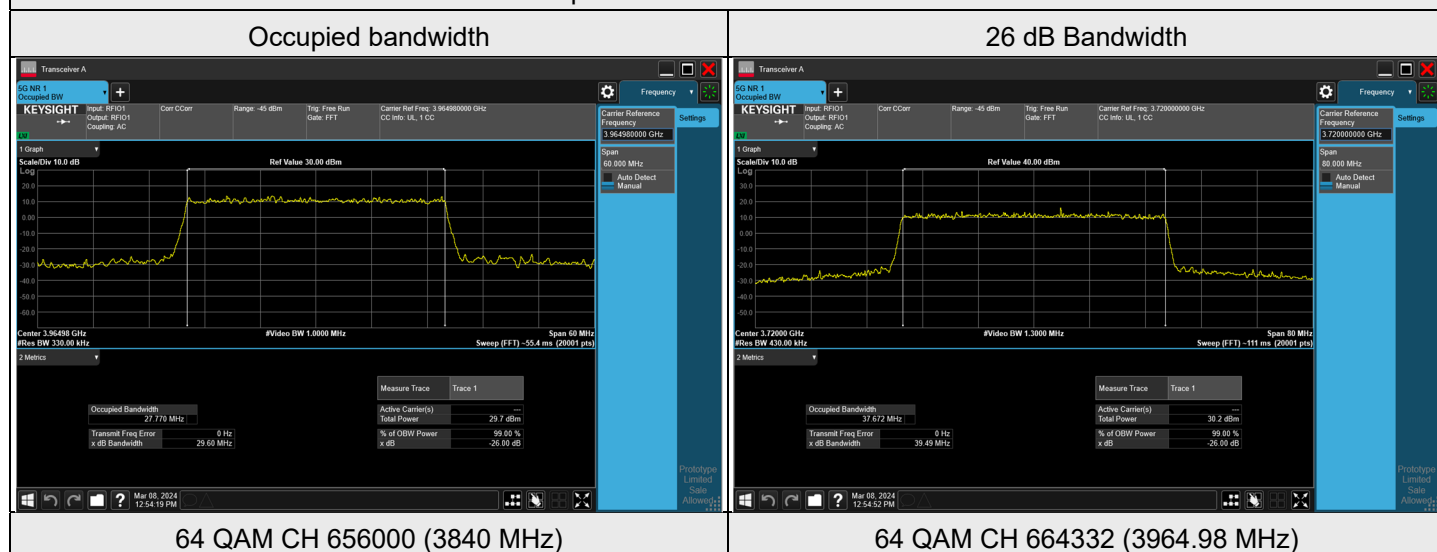
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3700-3980 MHz), Channel Bandwidth: 30 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	647668	3715.02	27.488	28.46
BPSK	656000	3840	27.475	28.52
BPSK	664332	3964.98	27.506	28.66
QPSK	647668	3715.02	27.727	29.34
QPSK	656000	3840	27.734	29.17
QPSK	664332	3964.98	27.735	29.13
16 QAM	647668	3715.02	27.770	29.39
16 QAM	656000	3840	27.787	29.32
16 QAM	664332	3964.98	27.762	29.19
64 QAM	647668	3715.02	27.697	29.56
64 QAM	656000	3840	27.805	29.41
64 QAM	664332	3964.98	27.770	29.60
256 QAM	647668	3715.02	27.733	29.37
256 QAM	656000	3840	27.741	29.39
256 QAM	664332	3964.98	27.716	29.22

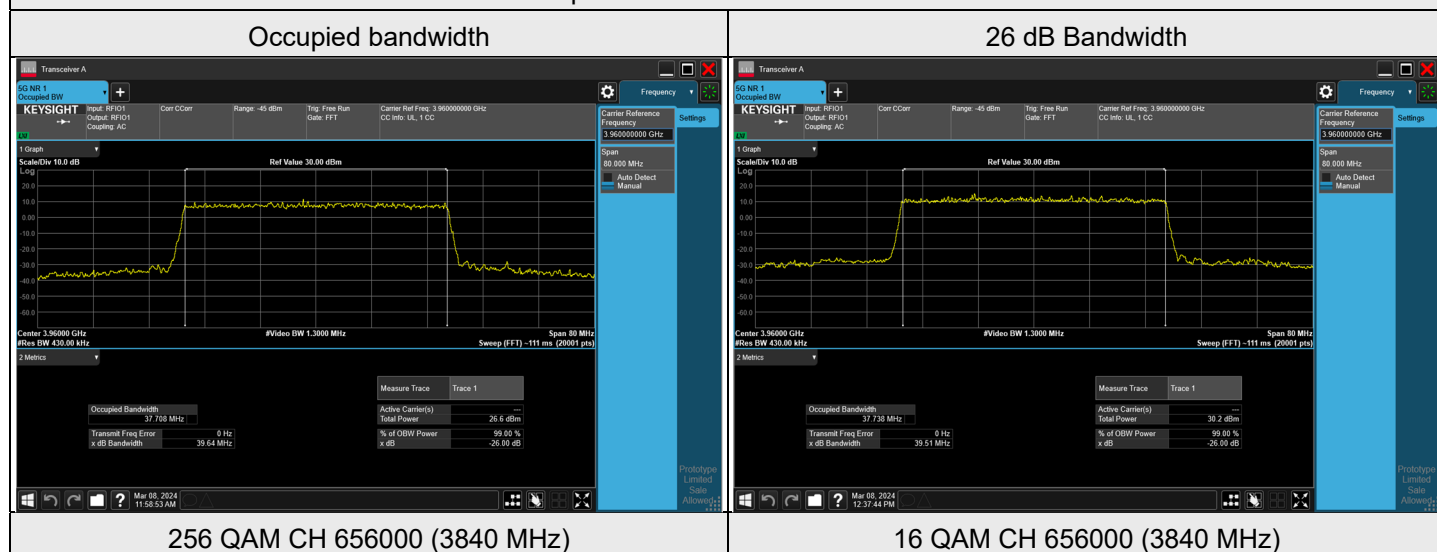
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3700-3980 MHz), Channel Bandwidth: 40 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	648000	3720	37.361	37.55
BPSK	656000	3840	37.386	37.50
BPSK	664000	3960	37.346	37.52
QPSK	648000	3720	37.738	39.57
QPSK	656000	3840	37.642	39.43
QPSK	664000	3960	37.667	39.37
16 QAM	648000	3720	37.642	39.68
16 QAM	656000	3840	37.665	39.70
16 QAM	664000	3960	37.738	39.51
64 QAM	648000	3720	37.672	39.49
64 QAM	656000	3840	37.643	39.66
64 QAM	664000	3960	37.641	39.54
256 QAM	648000	3720	37.659	39.00
256 QAM	656000	3840	37.770	39.51
256 QAM	664000	3960	37.708	39.64

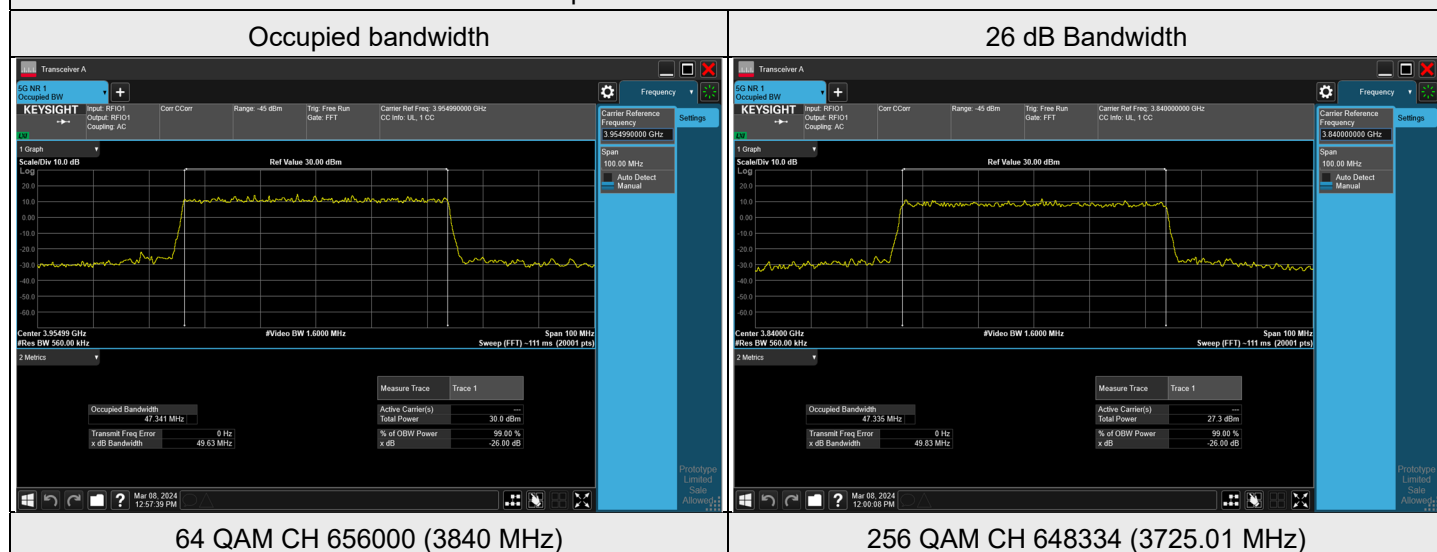
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3700-3980 MHz), Channel Bandwidth: 50 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	648334	3725.01	46.973	48.04
BPSK	656000	3840	46.883	48.49
BPSK	663666	3954.99	46.973	48.10
QPSK	648334	3725.01	47.294	49.60
QPSK	656000	3840	47.350	49.93
QPSK	663666	3954.99	47.273	49.67
16 QAM	648334	3725.01	47.231	49.49
16 QAM	656000	3840	47.332	49.64
16 QAM	663666	3954.99	47.323	49.71
64 QAM	648334	3725.01	47.325	49.69
64 QAM	656000	3840	47.383	49.82
64 QAM	663666	3954.99	47.341	49.63
256 QAM	648334	3725.01	47.285	49.98
256 QAM	656000	3840	47.335	49.83
256 QAM	663666	3954.99	47.271	49.84

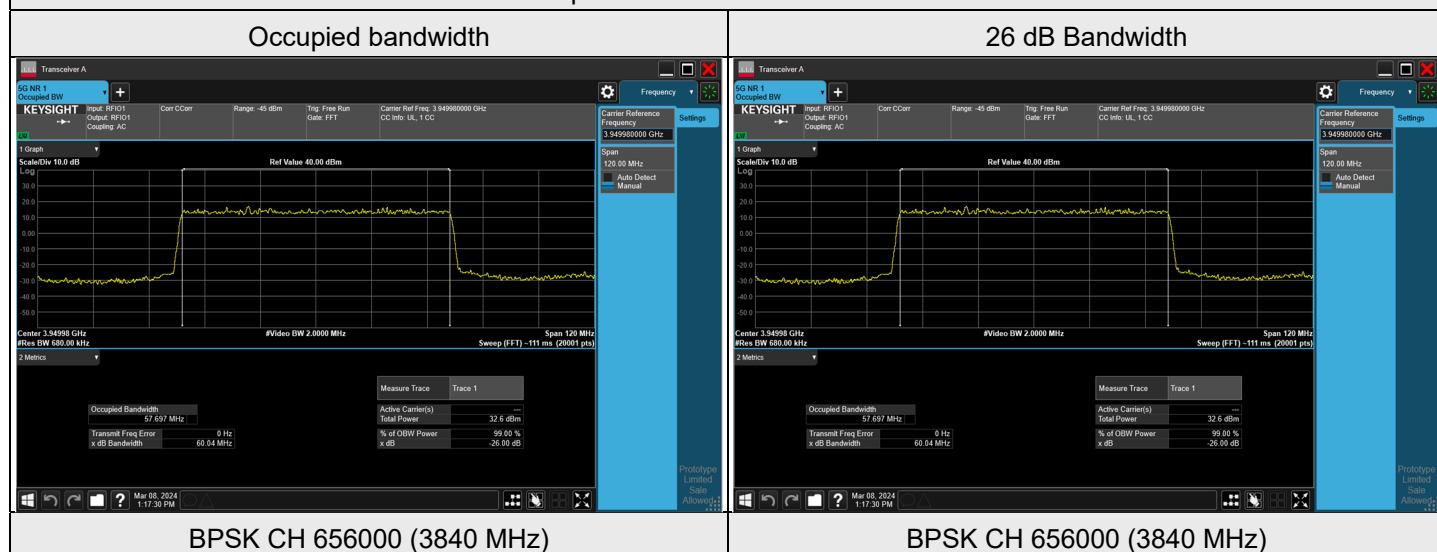
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3700-3980 MHz), Channel Bandwidth: 60 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	648668	3730.02	57.580	60.30
BPSK	656000	3840	57.733	60.34
BPSK	663332	3949.98	57.697	60.04
QPSK	648668	3730.02	57.602	60.05
QPSK	656000	3840	57.639	60.22
QPSK	663332	3949.98	57.554	60.09
16 QAM	648668	3730.02	57.639	60.07
16 QAM	656000	3840	57.564	60.01
16 QAM	663332	3949.98	57.665	60.18
64 QAM	648668	3730.02	57.565	60.03
64 QAM	656000	3840	57.711	60.12
64 QAM	663332	3949.98	57.678	60.18
256 QAM	648668	3730.02	57.580	59.93
256 QAM	656000	3840	57.652	59.92
256 QAM	663332	3949.98	57.651	59.86

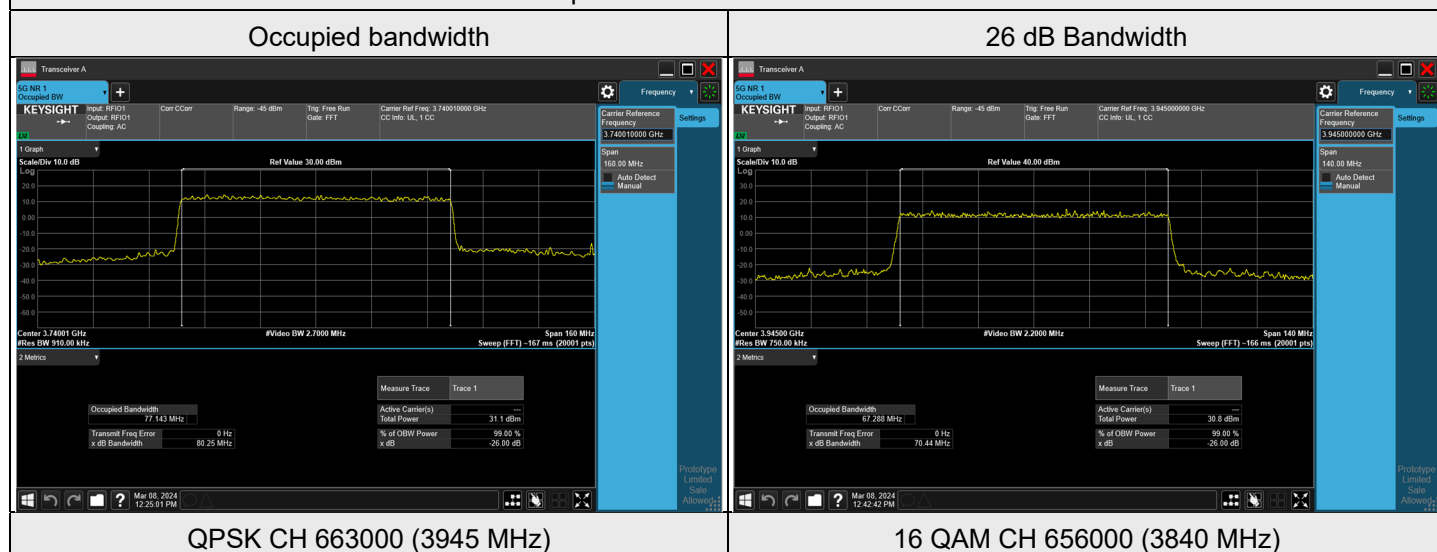
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3700-3980 MHz), Channel Bandwidth: 70 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	649000	3735	66.294	66.92
BPSK	656000	3840	66.227	67.18
BPSK	663000	3945	66.361	67.26
QPSK	649000	3735	67.261	70.20
QPSK	656000	3840	67.383	69.89
QPSK	663000	3945	67.399	70.11
16 QAM	649000	3735	67.285	69.97
16 QAM	656000	3840	67.261	70.69
16 QAM	663000	3945	67.288	70.44
64 QAM	649000	3735	67.134	70.39
64 QAM	656000	3840	67.215	70.43
64 QAM	663000	3945	67.259	70.61
256 QAM	649000	3735	67.244	70.12
256 QAM	656000	3840	67.313	70.33
256 QAM	663000	3945	67.314	70.37

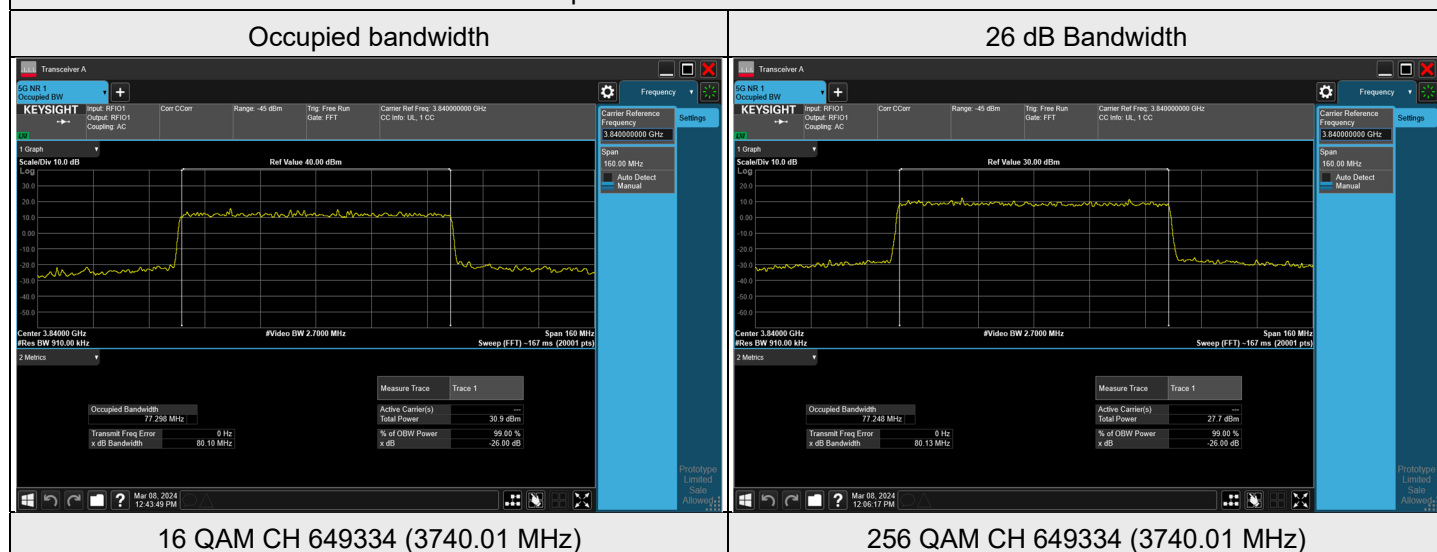
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3700-3980 MHz), Channel Bandwidth: 80 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	649334	3740.01	76.644	79.89
BPSK	656000	3840	77.044	79.93
BPSK	662666	3939.99	77.112	80.05
QPSK	649334	3740.01	77.143	80.25
QPSK	656000	3840	77.239	80.30
QPSK	662666	3939.99	77.206	80.27
16 QAM	649334	3740.01	77.495	80.25
16 QAM	656000	3840	77.298	80.10
16 QAM	662666	3939.99	77.351	80.35
64 QAM	649334	3740.01	77.141	80.27
64 QAM	656000	3840	77.139	80.32
64 QAM	662666	3939.99	77.169	80.35
256 QAM	649334	3740.01	77.108	80.37
256 QAM	656000	3840	77.248	80.13
256 QAM	662666	3939.99	77.175	80.25

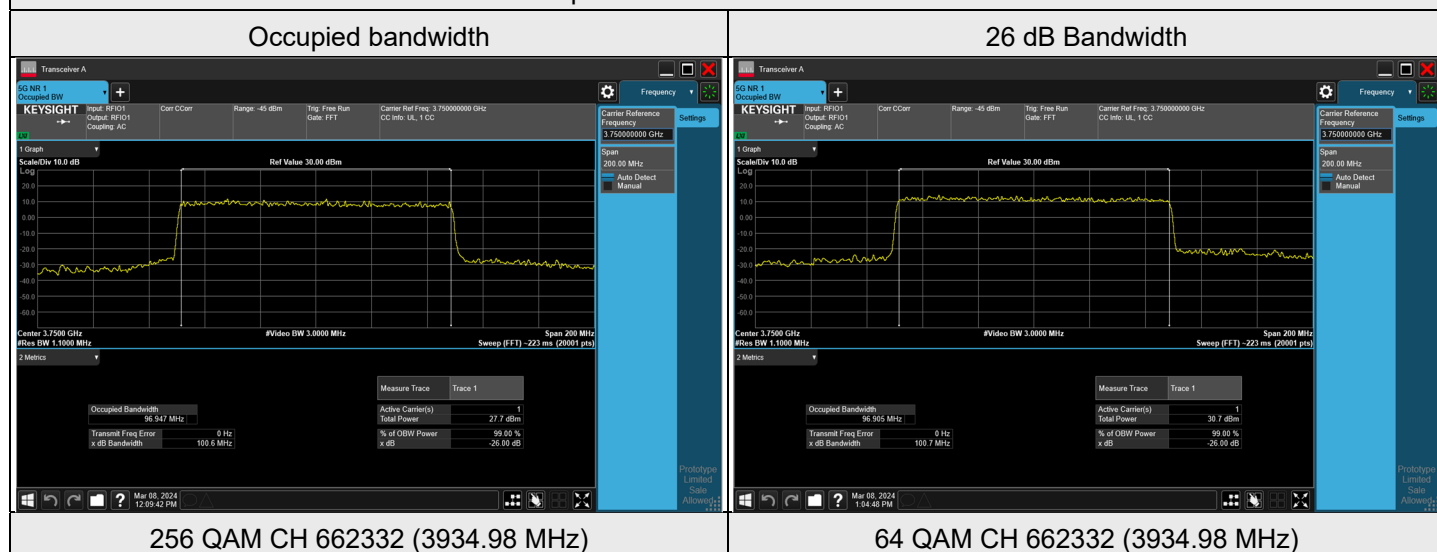
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3700-3980 MHz), Channel Bandwidth: 90 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	649668	3745.02	86.568	89.79
BPSK	656000	3840	86.528	89.58
BPSK	662332	3934.98	86.583	89.97
QPSK	649668	3745.02	86.904	90.24
QPSK	656000	3840	86.949	90.10
QPSK	662332	3934.98	87.054	90.24
16 QAM	649668	3745.02	87.156	90.37
16 QAM	656000	3840	87.144	90.26
16 QAM	662332	3934.98	87.178	90.57
64 QAM	649668	3745.02	87.162	90.22
64 QAM	656000	3840	87.236	90.58
64 QAM	662332	3934.98	87.233	90.67
256 QAM	649668	3745.02	87.196	90.24
256 QAM	656000	3840	87.210	90.29
256 QAM	662332	3934.98	87.248	90.25

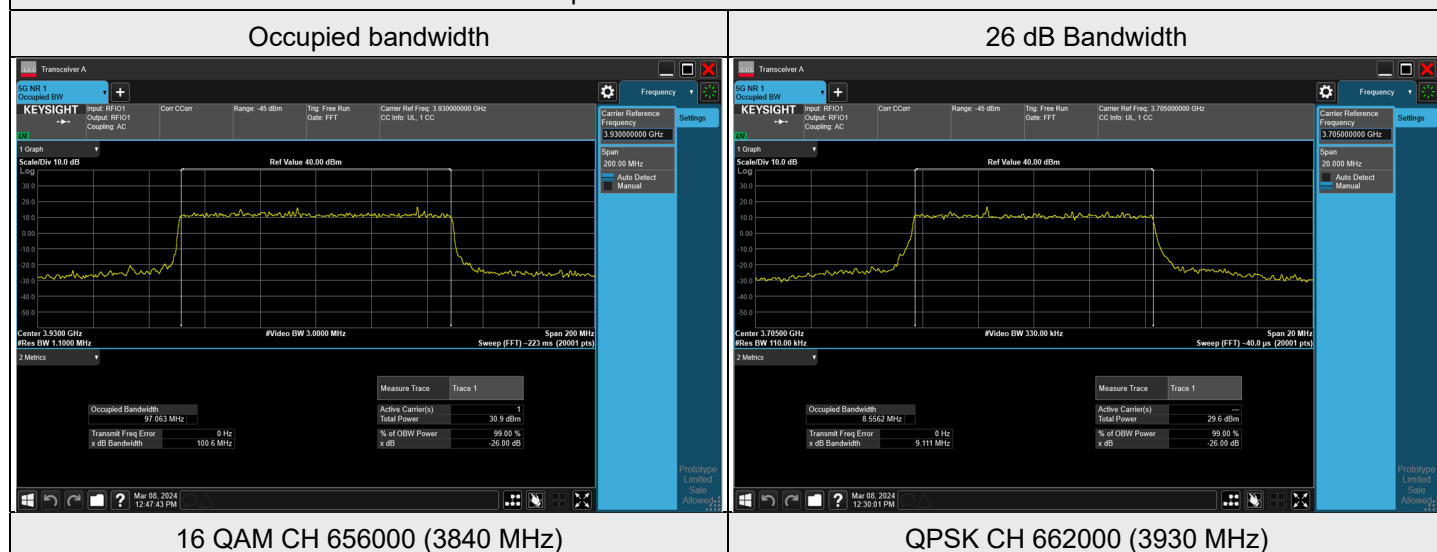
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3700-3980 MHz), Channel Bandwidth: 100 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	650000	3750	96.225	99.61
BPSK	656000	3840	96.240	99.76
BPSK	662000	3930	96.239	99.75
QPSK	650000	3750	97.108	100.6
QPSK	656000	3840	96.965	100.7
QPSK	662000	3930	97.129	100.8
16 QAM	650000	3750	97.149	100.5
16 QAM	656000	3840	97.181	100.4
16 QAM	662000	3930	97.063	100.6
64 QAM	650000	3750	96.905	100.7
64 QAM	656000	3840	97.020	100.7
64 QAM	662000	3930	96.941	100.6
256 QAM	650000	3750	96.947	100.6
256 QAM	656000	3840	96.762	100.6
256 QAM	662000	3930	97.126	100.6

Spectrum Plot of Worst Value



7.4.11 NR n77 (3700-3980 MHz) SCS 30 kHz (PC3)

NR n77 SCS 30 kHz (3700-3980 MHz), Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	647000	3705	8.5488	9.291
BPSK	656000	3840	8.5584	9.298
BPSK	665000	3975	8.5625	9.295
QPSK	647000	3705	8.5525	9.132
QPSK	656000	3840	8.5607	9.227
QPSK	665000	3975	8.5583	9.209
16QAM	647000	3705	8.5769	9.303
16QAM	656000	3840	8.5507	9.340
16QAM	665000	3975	8.5549	9.390
64QAM	647000	3705	8.5668	9.342
64QAM	656000	3840	8.5749	9.342
64QAM	665000	3975	8.5867	9.375
256QAM	647000	3705	8.5701	9.393
256QAM	656000	3840	8.5684	9.347
256QAM	665000	3975	8.5620	9.281

Spectrum Plot of Worst Value

