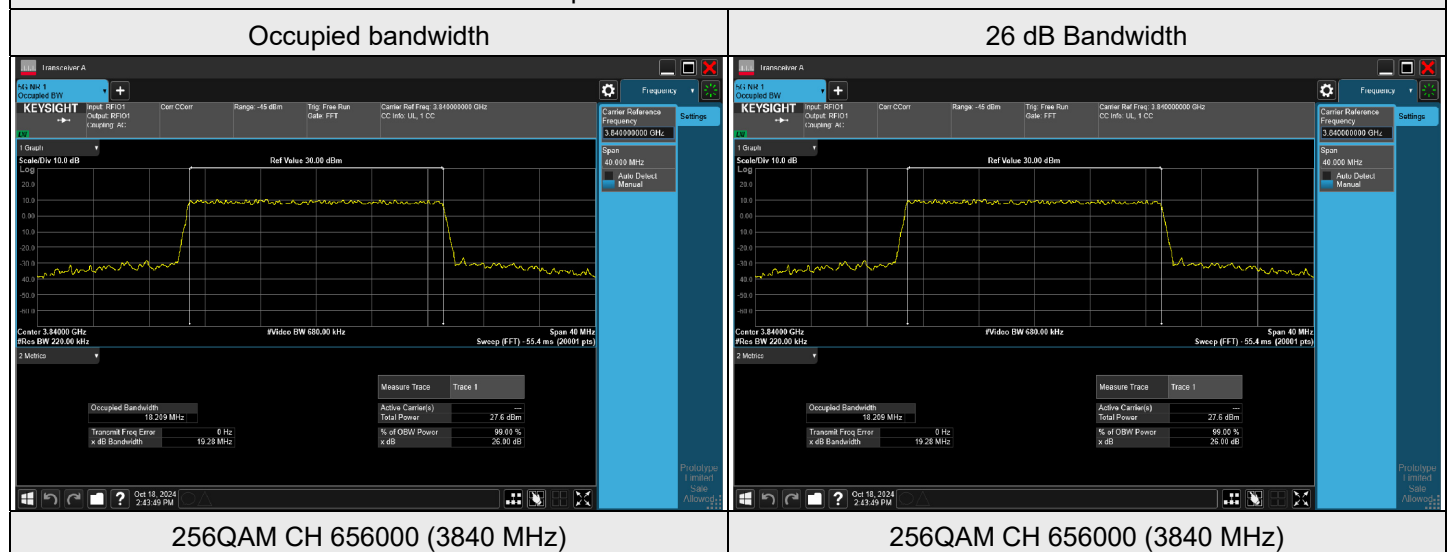


NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO-Ant 1, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	647334	3710.01	17.924	18.79
BPSK	656000	3840	17.925	18.80
BPSK	664666	3969.99	18.034	18.72
QPSK	647334	3710.01	18.166	19.10
QPSK	656000	3840	18.126	19.09
QPSK	664666	3969.99	18.169	19.16
16QAM	647334	3710.01	18.193	19.16
16QAM	656000	3840	18.158	19.15
16QAM	664666	3969.99	18.161	19.14
64QAM	647334	3710.01	18.137	19.10
64QAM	656000	3840	18.148	19.13
64QAM	664666	3969.99	18.174	19.18
256QAM	647334	3710.01	18.132	19.25
256QAM	656000	3840	18.209	19.28
256QAM	664666	3969.99	18.192	19.21

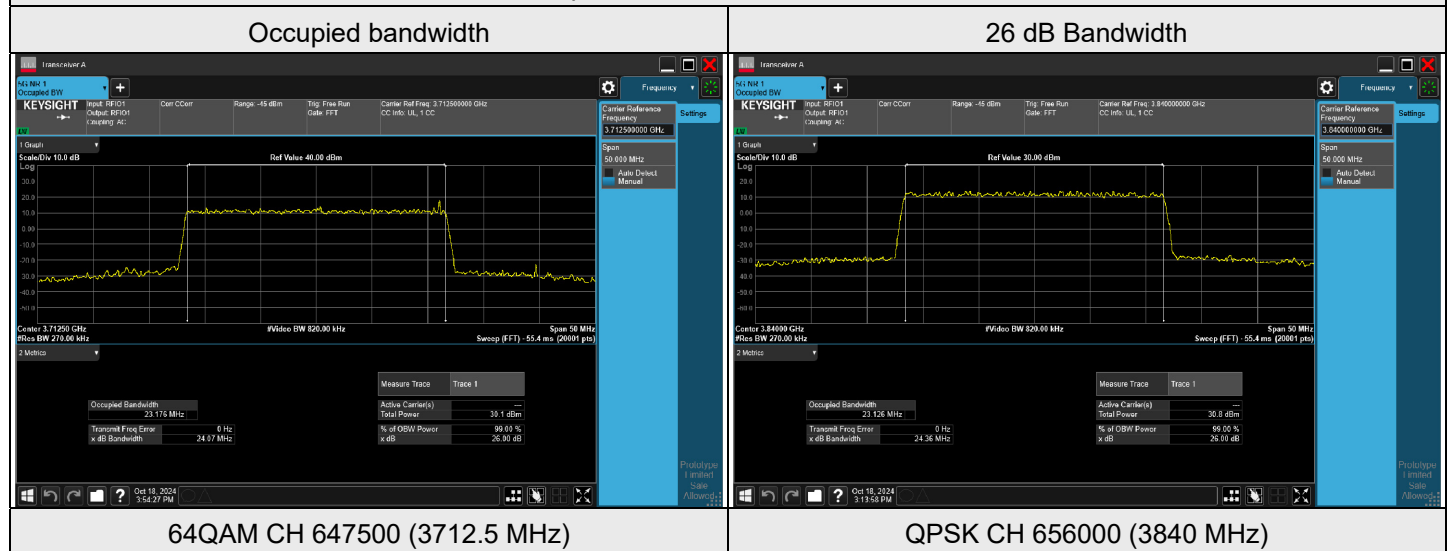
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO-Ant 1, Channel Bandwidth: 25 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	647500	3712.5	22.946	23.96
BPSK	656000	3840	23.045	23.85
BPSK	664500	3967.5	23.042	23.89
QPSK	647500	3712.5	23.140	24.27
QPSK	656000	3840	23.126	24.36
QPSK	664500	3967.5	23.115	24.24
16QAM	647500	3712.5	23.131	24.31
16QAM	656000	3840	23.125	24.22
16QAM	664500	3967.5	23.137	24.22
64QAM	647500	3712.5	23.176	24.07
64QAM	656000	3840	23.156	24.21
64QAM	664500	3967.5	23.162	24.24
256QAM	647500	3712.5	23.096	24.28
256QAM	656000	3840	23.106	24.26
256QAM	664500	3967.5	23.130	24.28

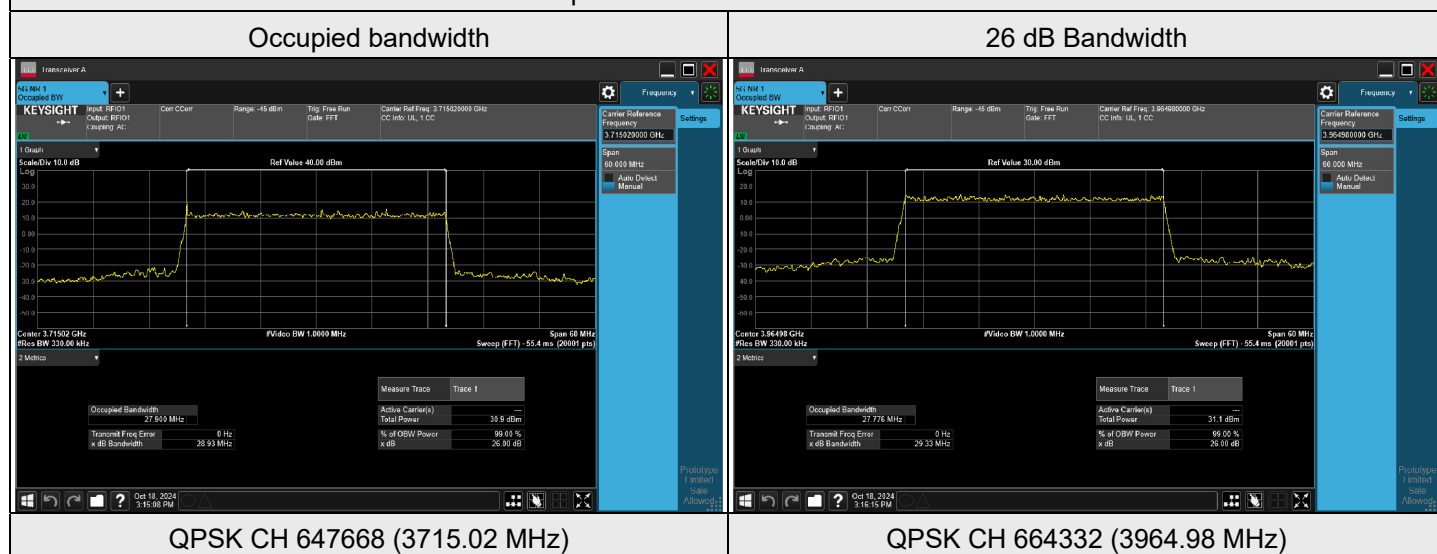
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO-Ant 1, Channel Bandwidth: 30 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	647668	3715.02	27.625	28.19
BPSK	656000	3840	27.589	28.19
BPSK	664332	3964.98	27.613	28.15
QPSK	647668	3715.02	27.900	28.93
QPSK	656000	3840	27.846	29.13
QPSK	664332	3964.98	27.776	29.33
16QAM	647668	3715.02	27.739	29.18
16QAM	656000	3840	27.733	29.24
16QAM	664332	3964.98	27.746	29.28
64QAM	647668	3715.02	27.793	29.30
64QAM	656000	3840	27.829	29.24
64QAM	664332	3964.98	27.806	29.28
256QAM	647668	3715.02	27.835	29.31
256QAM	656000	3840	27.781	29.31
256QAM	664332	3964.98	27.776	29.10

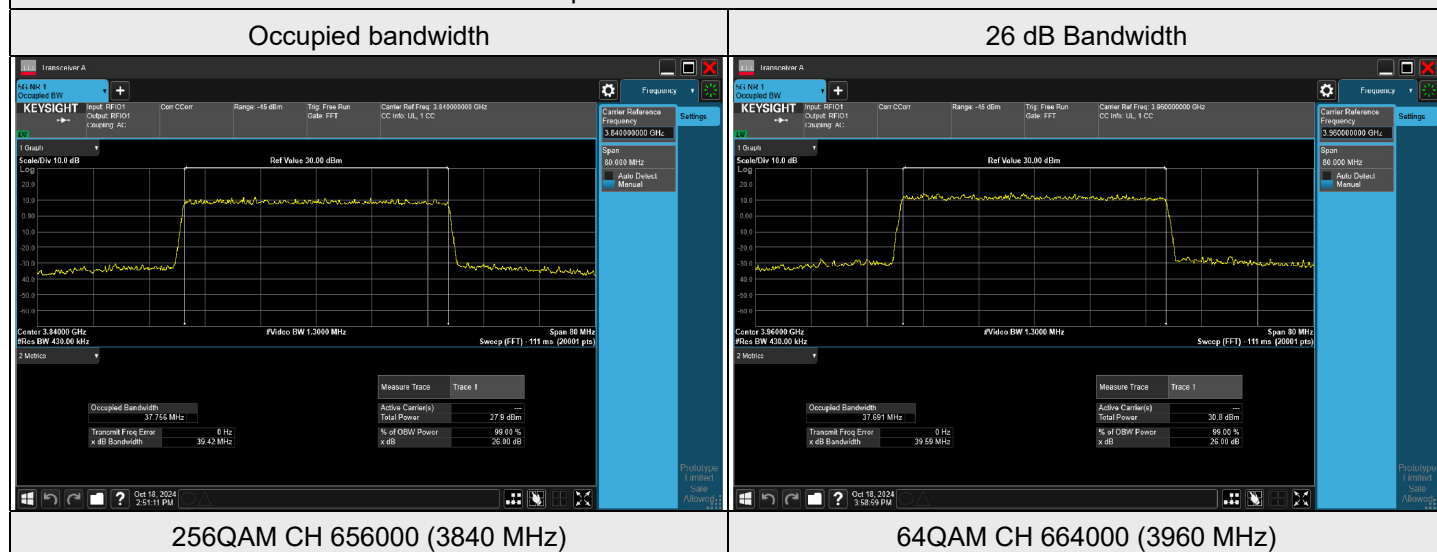
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO-Ant 1, Channel Bandwidth: 40 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	648000	3720	37.369	37.27
BPSK	656000	3840	37.377	37.36
BPSK	664000	3960	37.500	37.26
QPSK	648000	3720	37.656	39.53
QPSK	656000	3840	37.688	39.50
QPSK	664000	3960	37.675	39.50
16QAM	648000	3720	37.713	39.25
16QAM	656000	3840	37.712	39.29
16QAM	664000	3960	37.697	39.26
64QAM	648000	3720	37.722	39.33
64QAM	656000	3840	37.713	39.38
64QAM	664000	3960	37.691	39.59
256QAM	648000	3720	37.729	39.52
256QAM	656000	3840	37.756	39.42
256QAM	664000	3960	37.752	39.42

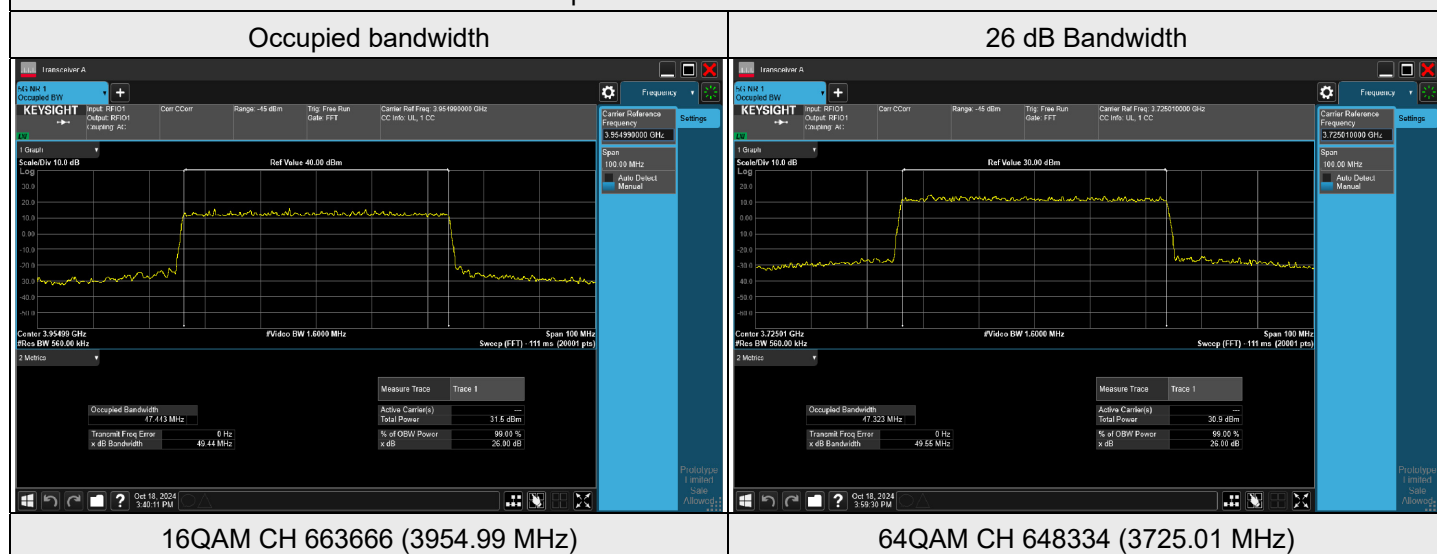
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO-Ant 1, Channel Bandwidth: 50 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	648334	3725.01	46.854	47.42
BPSK	656000	3840	46.981	47.61
BPSK	663666	3954.99	46.861	47.55
QPSK	648334	3725.01	47.301	49.28
QPSK	656000	3840	47.281	49.30
QPSK	663666	3954.99	47.240	49.38
16QAM	648334	3725.01	47.251	49.51
16QAM	656000	3840	47.381	49.47
16QAM	663666	3954.99	47.443	49.44
64QAM	648334	3725.01	47.323	49.55
64QAM	656000	3840	47.313	49.52
64QAM	663666	3954.99	47.224	49.10
256QAM	648334	3725.01	47.344	49.37
256QAM	656000	3840	47.313	49.32
256QAM	663666	3954.99	47.353	49.36

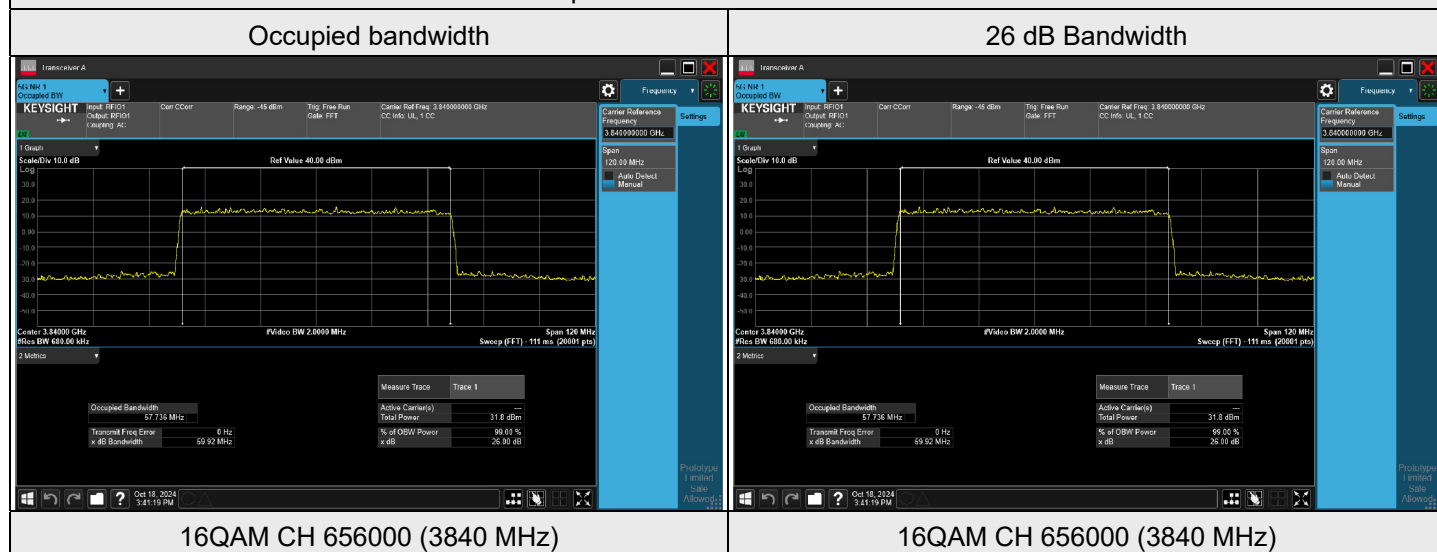
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO-Ant 1, Channel Bandwidth: 60 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	648668	3730.02	57.616	59.80
BPSK	656000	3840	57.509	59.83
BPSK	663332	3949.98	57.576	59.84
QPSK	648668	3730.02	57.519	59.70
QPSK	656000	3840	57.471	59.71
QPSK	663332	3949.98	57.531	59.78
16QAM	648668	3730.02	57.675	59.80
16QAM	656000	3840	57.736	59.92
16QAM	663332	3949.98	57.723	59.80
64QAM	648668	3730.02	57.434	59.70
64QAM	656000	3840	57.473	59.88
64QAM	663332	3949.98	57.568	59.82
256QAM	648668	3730.02	57.603	59.62
256QAM	656000	3840	57.617	59.77
256QAM	663332	3949.98	57.577	59.68

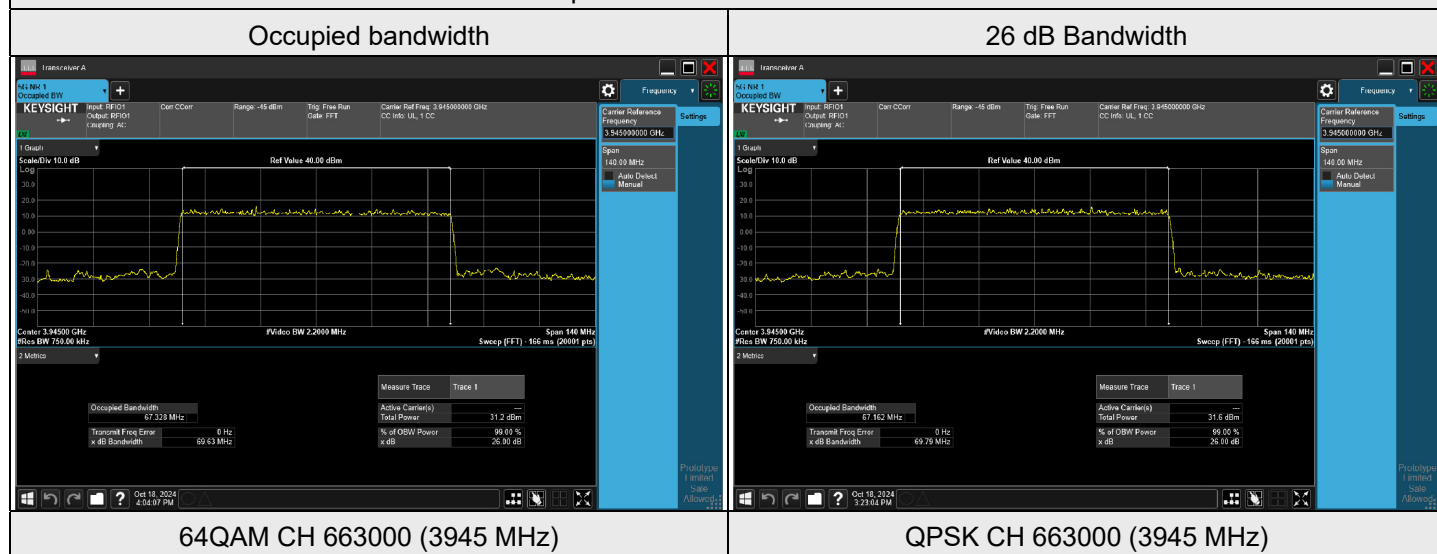
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO-Ant 1, Channel Bandwidth: 70 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	649000	3735	66.938	66.30
BPSK	656000	3840	66.963	66.44
BPSK	663000	3945	66.934	66.42
QPSK	649000	3735	67.131	69.62
QPSK	656000	3840	67.277	69.61
QPSK	663000	3945	67.162	69.79
16QAM	649000	3735	67.065	69.66
16QAM	656000	3840	67.078	69.52
16QAM	663000	3945	67.216	69.64
64QAM	649000	3735	67.305	69.68
64QAM	656000	3840	67.276	69.69
64QAM	663000	3945	67.328	69.63
256QAM	649000	3735	67.258	69.79
256QAM	656000	3840	67.289	69.58
256QAM	663000	3945	67.301	69.57

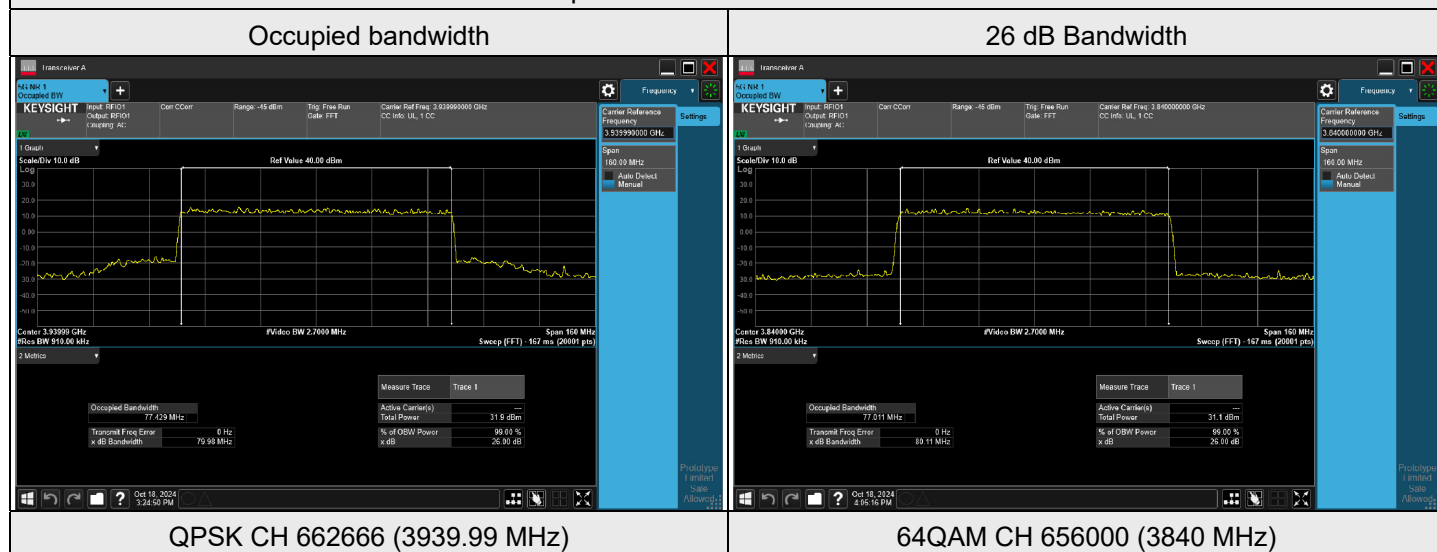
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO-Ant 1, Channel Bandwidth: 80 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	649334	3740.01	76.918	79.59
BPSK	656000	3840	76.918	79.69
BPSK	662666	3939.99	76.948	79.66
QPSK	649334	3740.01	77.238	79.96
QPSK	656000	3840	77.392	79.97
QPSK	662666	3939.99	77.429	79.98
16QAM	649334	3740.01	77.222	79.93
16QAM	656000	3840	77.299	79.85
16QAM	662666	3939.99	77.347	79.87
64QAM	649334	3740.01	77.063	80.02
64QAM	656000	3840	77.011	80.11
64QAM	662666	3939.99	77.044	80.01
256QAM	649334	3740.01	77.236	79.99
256QAM	656000	3840	77.222	80.08
256QAM	662666	3939.99	77.139	79.86

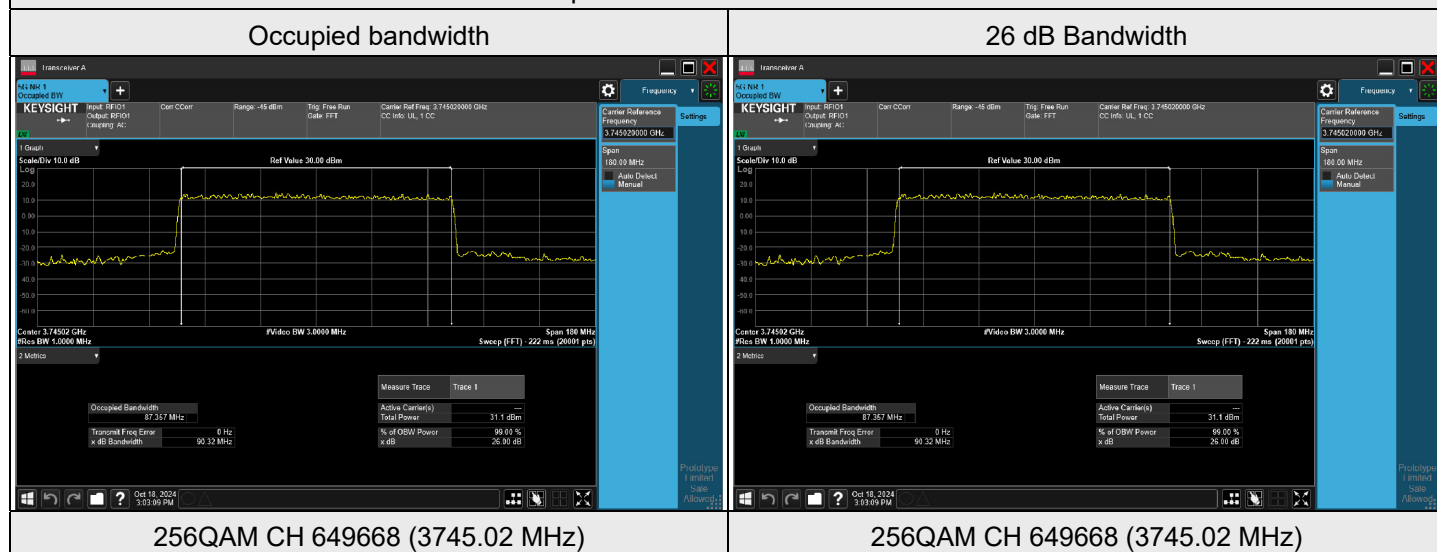
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO-Ant 1, Channel Bandwidth: 90 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	649668	3745.02	86.333	89.41
BPSK	656000	3840	86.729	89.49
BPSK	662332	3934.98	86.726	89.57
QPSK	649668	3745.02	87.251	90.22
QPSK	656000	3840	87.305	90.22
QPSK	662332	3934.98	87.301	90.25
16QAM	649668	3745.02	87.246	90.29
16QAM	656000	3840	87.265	90.13
16QAM	662332	3934.98	87.231	90.16
64QAM	649668	3745.02	87.126	90.21
64QAM	656000	3840	87.177	90.10
64QAM	662332	3934.98	87.124	90.18
256QAM	649668	3745.02	87.357	90.32
256QAM	656000	3840	87.284	90.30
256QAM	662332	3934.98	87.121	90.17

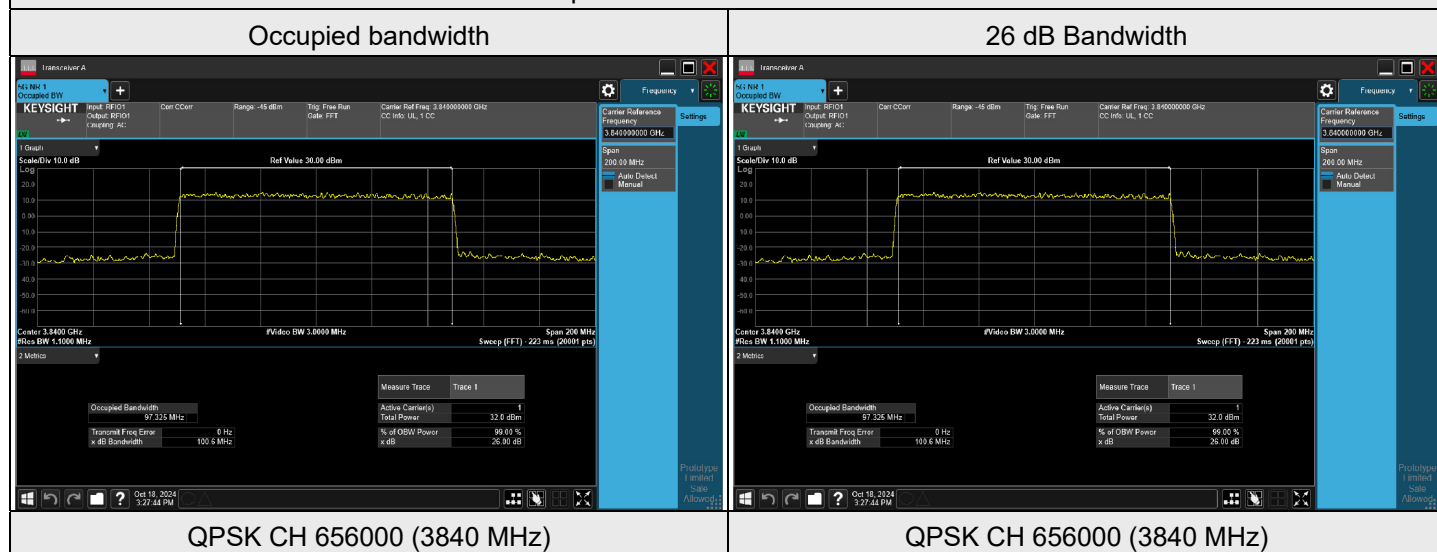
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO-Ant 1, Channel Bandwidth: 100 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	650000	3750	96.410	99.51
BPSK	656000	3840	96.667	99.51
BPSK	662000	3930	96.525	99.49
QPSK	650000	3750	97.209	100.4
QPSK	656000	3840	97.325	100.6
QPSK	662000	3930	97.182	100.4
16QAM	650000	3750	97.105	100.5
16QAM	656000	3840	97.269	100.5
16QAM	662000	3930	97.205	100.6
64QAM	650000	3750	97.189	100.4
64QAM	656000	3840	97.161	100.3
64QAM	662000	3930	97.168	100.5
256QAM	650000	3750	97.069	100.5
256QAM	656000	3840	97.083	100.5
256QAM	662000	3930	97.122	100.6

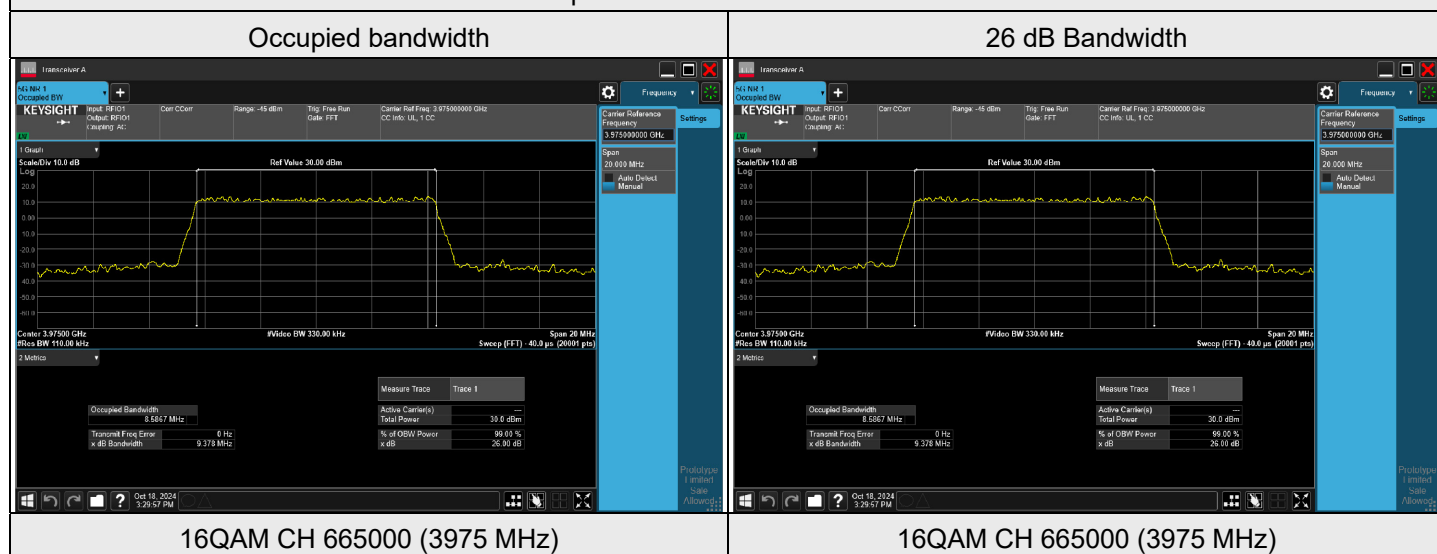
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO-Ant 4, Channel Bandwidth: 10 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	647000	3705	8.5387	9.157
BPSK	656000	3840	8.5689	9.223
BPSK	665000	3975	8.5605	9.227
QPSK	647000	3705	8.5422	9.225
QPSK	656000	3840	8.5785	9.370
QPSK	665000	3975	8.5448	9.268
16QAM	647000	3705	8.5824	9.316
16QAM	656000	3840	8.5729	9.273
16QAM	665000	3975	8.5867	9.378
64QAM	647000	3705	8.5763	9.269
64QAM	656000	3840	8.5690	9.307
64QAM	665000	3975	8.5788	9.228
256QAM	647000	3705	8.5483	9.286
256QAM	656000	3840	8.5349	9.172
256QAM	665000	3975	8.5520	9.181

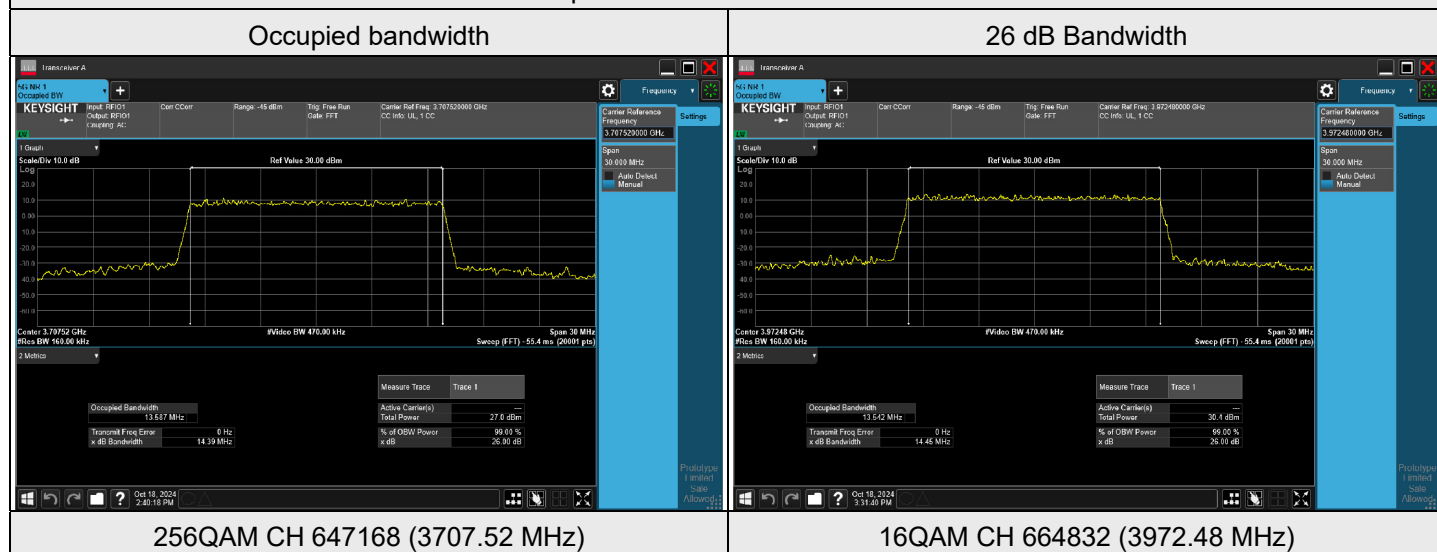
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO-Ant 4, Channel Bandwidth: 15 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	647168	3707.52	13.447	13.62
BPSK	656000	3840	13.465	13.56
BPSK	664832	3972.48	13.480	13.69
QPSK	647168	3707.52	13.513	14.35
QPSK	656000	3840	13.513	14.37
QPSK	664832	3972.48	13.533	14.40
16QAM	647168	3707.52	13.548	14.41
16QAM	656000	3840	13.534	14.44
16QAM	664832	3972.48	13.542	14.45
64QAM	647168	3707.52	13.540	14.41
64QAM	656000	3840	13.530	14.30
64QAM	664832	3972.48	13.516	14.38
256QAM	647168	3707.52	13.587	14.39
256QAM	656000	3840	13.551	14.42
256QAM	664832	3972.48	13.564	14.33

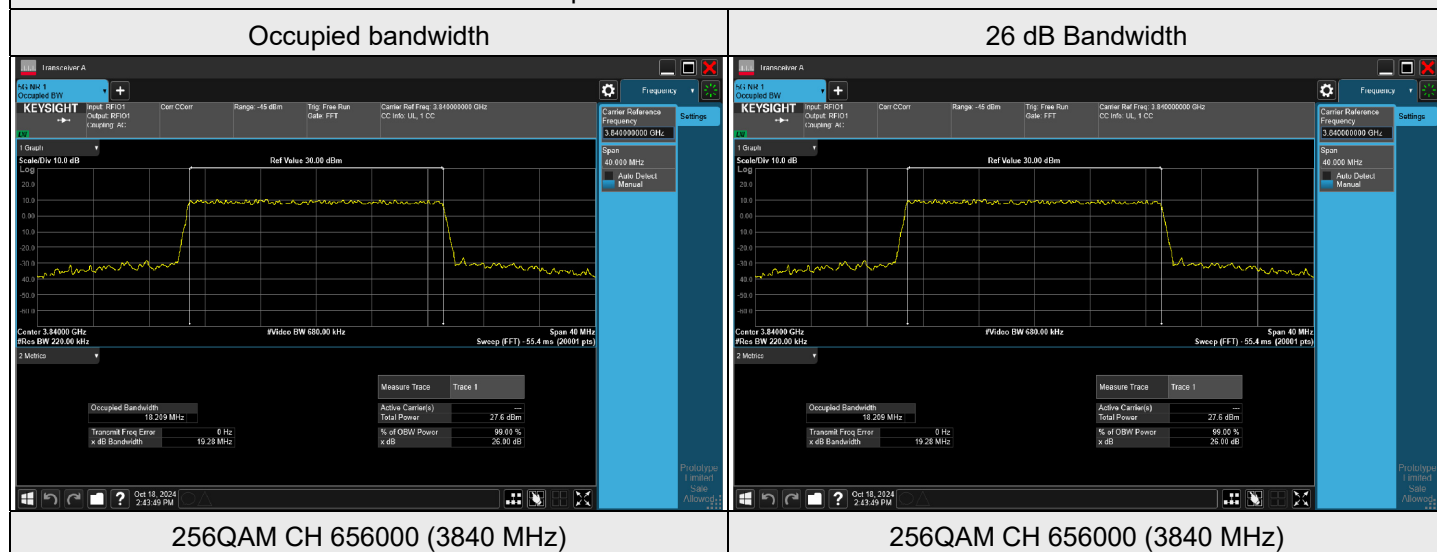
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO-Ant 4, Channel Bandwidth: 20 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	647334	3710.01	17.924	18.79
BPSK	656000	3840	17.925	18.80
BPSK	664666	3969.99	18.034	18.72
QPSK	647334	3710.01	18.166	19.10
QPSK	656000	3840	18.126	19.09
QPSK	664666	3969.99	18.169	19.16
16QAM	647334	3710.01	18.193	19.16
16QAM	656000	3840	18.158	19.15
16QAM	664666	3969.99	18.161	19.14
64QAM	647334	3710.01	18.137	19.10
64QAM	656000	3840	18.148	19.13
64QAM	664666	3969.99	18.174	19.18
256QAM	647334	3710.01	18.132	19.25
256QAM	656000	3840	18.209	19.28
256QAM	664666	3969.99	18.192	19.21

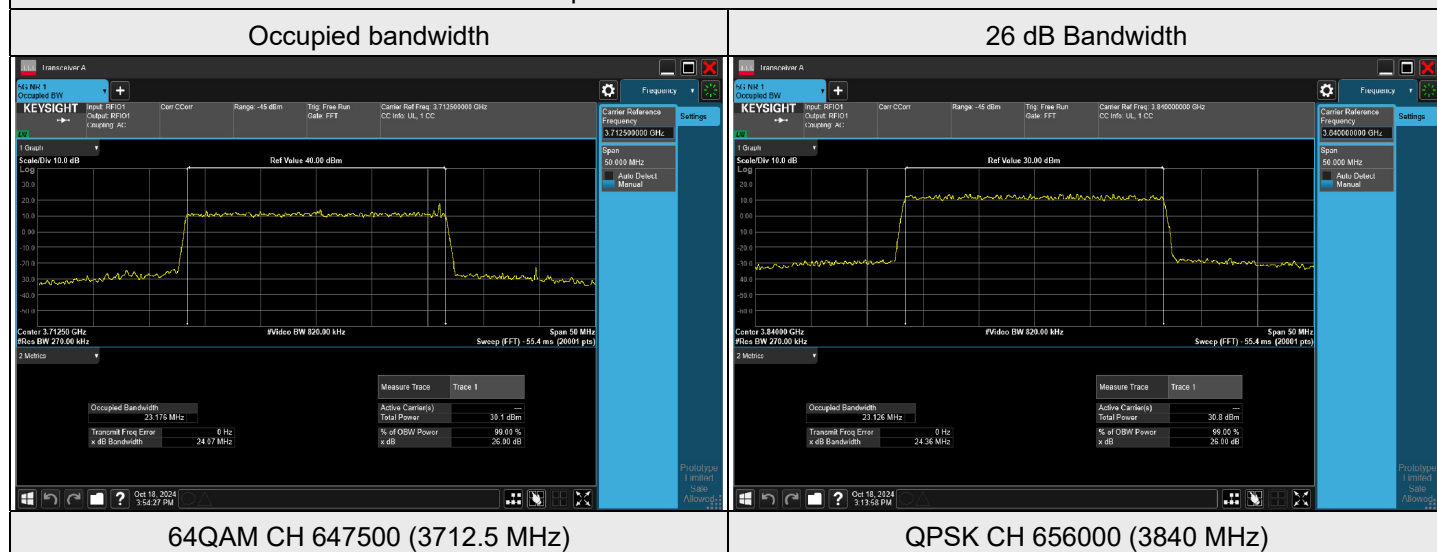
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO-Ant 4, Channel Bandwidth: 25 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	647500	3712.5	22.946	23.96
BPSK	656000	3840	23.045	23.85
BPSK	664500	3967.5	23.042	23.89
QPSK	647500	3712.5	23.140	24.27
QPSK	656000	3840	23.126	24.36
QPSK	664500	3967.5	23.115	24.24
16QAM	647500	3712.5	23.131	24.31
16QAM	656000	3840	23.125	24.22
16QAM	664500	3967.5	23.137	24.22
64QAM	647500	3712.5	23.176	24.07
64QAM	656000	3840	23.156	24.21
64QAM	664500	3967.5	23.162	24.24
256QAM	647500	3712.5	23.096	24.28
256QAM	656000	3840	23.106	24.26
256QAM	664500	3967.5	23.130	24.28

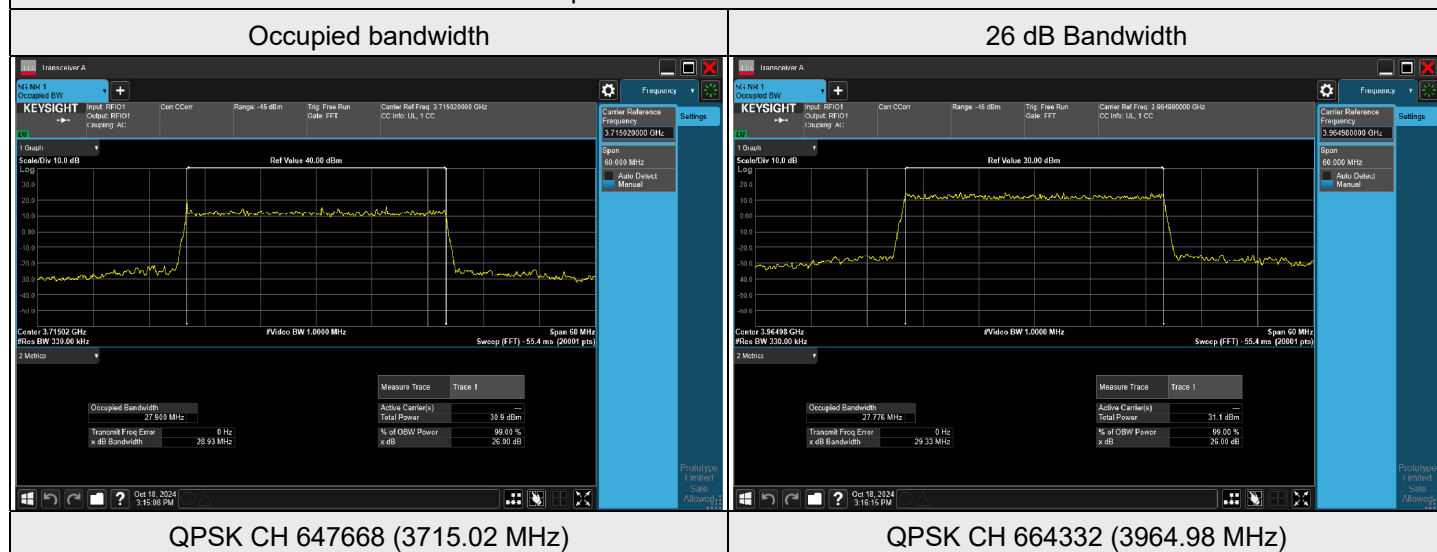
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO-Ant 4, Channel Bandwidth: 30 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	647668	3715.02	27.625	28.19
BPSK	656000	3840	27.589	28.19
BPSK	664332	3964.98	27.613	28.15
QPSK	647668	3715.02	27.900	28.93
QPSK	656000	3840	27.846	29.13
QPSK	664332	3964.98	27.776	29.33
16QAM	647668	3715.02	27.739	29.18
16QAM	656000	3840	27.733	29.24
16QAM	664332	3964.98	27.746	29.28
64QAM	647668	3715.02	27.793	29.30
64QAM	656000	3840	27.829	29.24
64QAM	664332	3964.98	27.806	29.28
256QAM	647668	3715.02	27.835	29.31
256QAM	656000	3840	27.781	29.31
256QAM	664332	3964.98	27.776	29.10

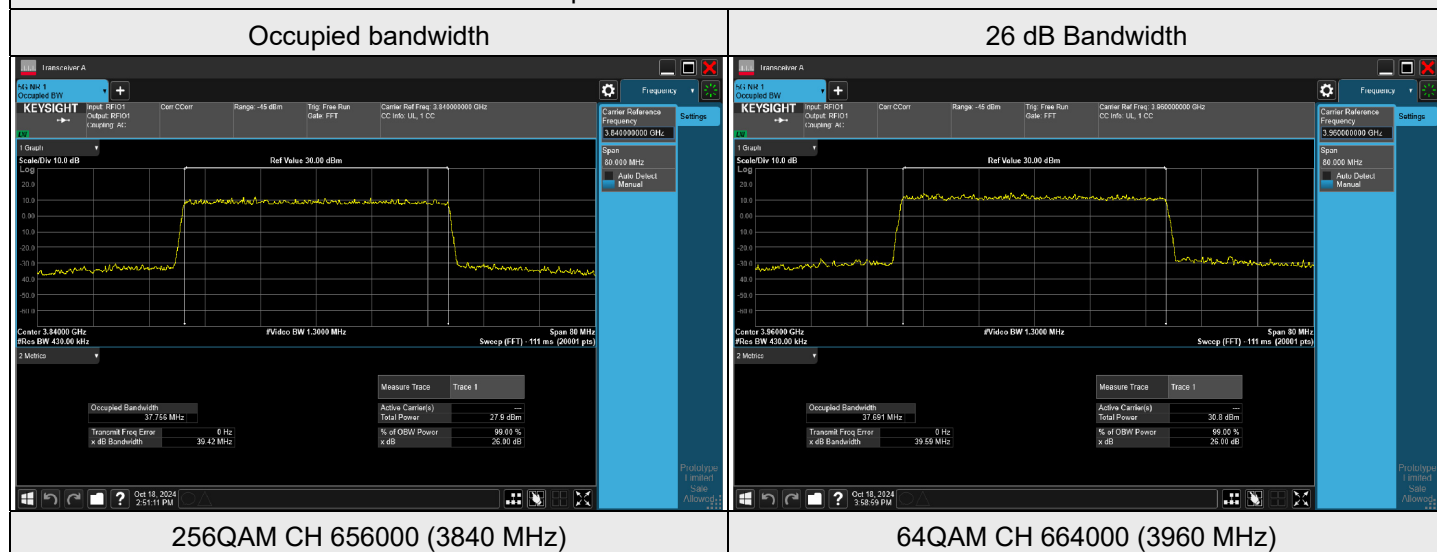
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO-Ant 4, Channel Bandwidth: 40 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	648000	3720	37.369	37.27
BPSK	656000	3840	37.377	37.36
BPSK	664000	3960	37.500	37.26
QPSK	648000	3720	37.656	39.53
QPSK	656000	3840	37.688	39.50
QPSK	664000	3960	37.675	39.50
16QAM	648000	3720	37.713	39.25
16QAM	656000	3840	37.712	39.29
16QAM	664000	3960	37.697	39.26
64QAM	648000	3720	37.722	39.33
64QAM	656000	3840	37.713	39.38
64QAM	664000	3960	37.691	39.59
256QAM	648000	3720	37.729	39.52
256QAM	656000	3840	37.756	39.42
256QAM	664000	3960	37.752	39.42

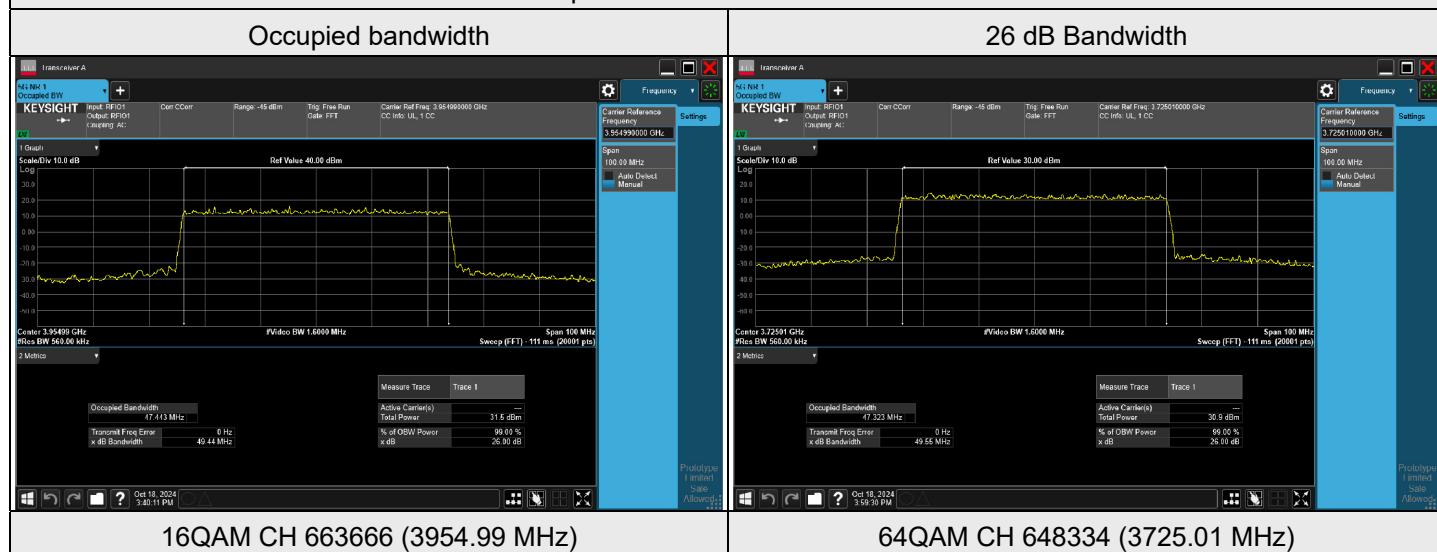
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO-Ant 4, Channel Bandwidth: 50 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	648334	3725.01	46.854	47.42
BPSK	656000	3840	46.981	47.61
BPSK	663666	3954.99	46.861	47.55
QPSK	648334	3725.01	47.301	49.28
QPSK	656000	3840	47.281	49.30
QPSK	663666	3954.99	47.240	49.38
16QAM	648334	3725.01	47.251	49.51
16QAM	656000	3840	47.381	49.47
16QAM	663666	3954.99	47.443	49.44
64QAM	648334	3725.01	47.323	49.55
64QAM	656000	3840	47.313	49.52
64QAM	663666	3954.99	47.224	49.10
256QAM	648334	3725.01	47.344	49.37
256QAM	656000	3840	47.313	49.32
256QAM	663666	3954.99	47.353	49.36

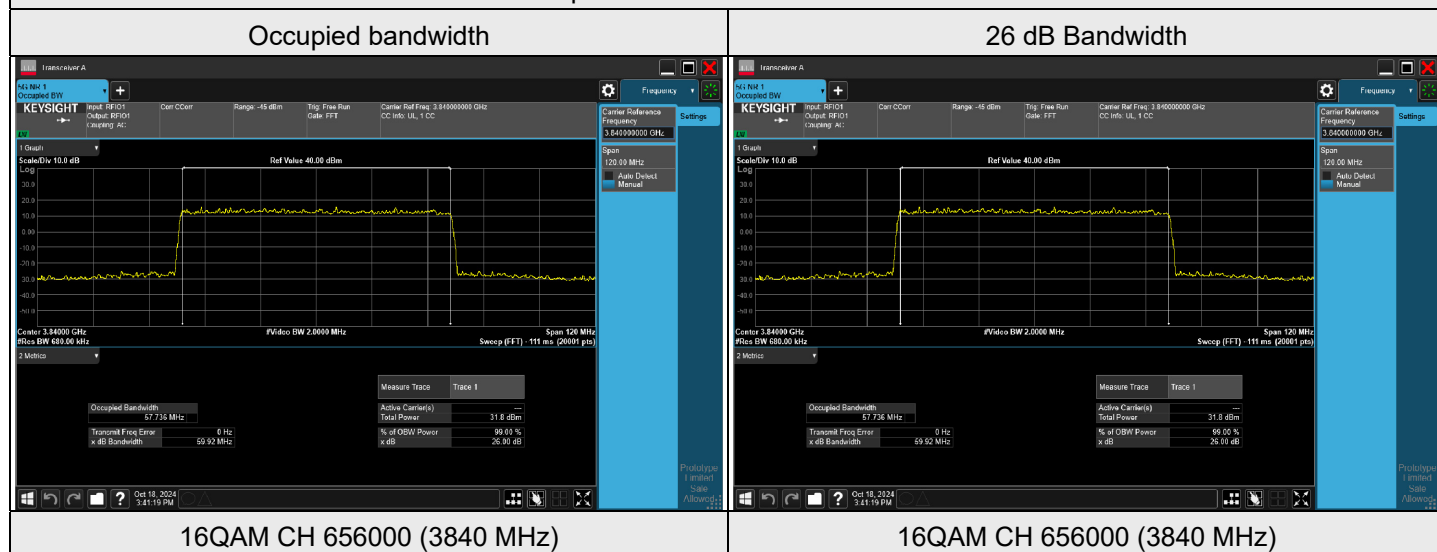
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO-Ant 4, Channel Bandwidth: 60 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	648668	3730.02	57.616	59.80
BPSK	656000	3840	57.509	59.83
BPSK	663332	3949.98	57.576	59.84
QPSK	648668	3730.02	57.519	59.70
QPSK	656000	3840	57.471	59.71
QPSK	663332	3949.98	57.531	59.78
16QAM	648668	3730.02	57.675	59.80
16QAM	656000	3840	57.736	59.92
16QAM	663332	3949.98	57.723	59.80
64QAM	648668	3730.02	57.434	59.70
64QAM	656000	3840	57.473	59.88
64QAM	663332	3949.98	57.568	59.82
256QAM	648668	3730.02	57.603	59.62
256QAM	656000	3840	57.617	59.77
256QAM	663332	3949.98	57.577	59.68

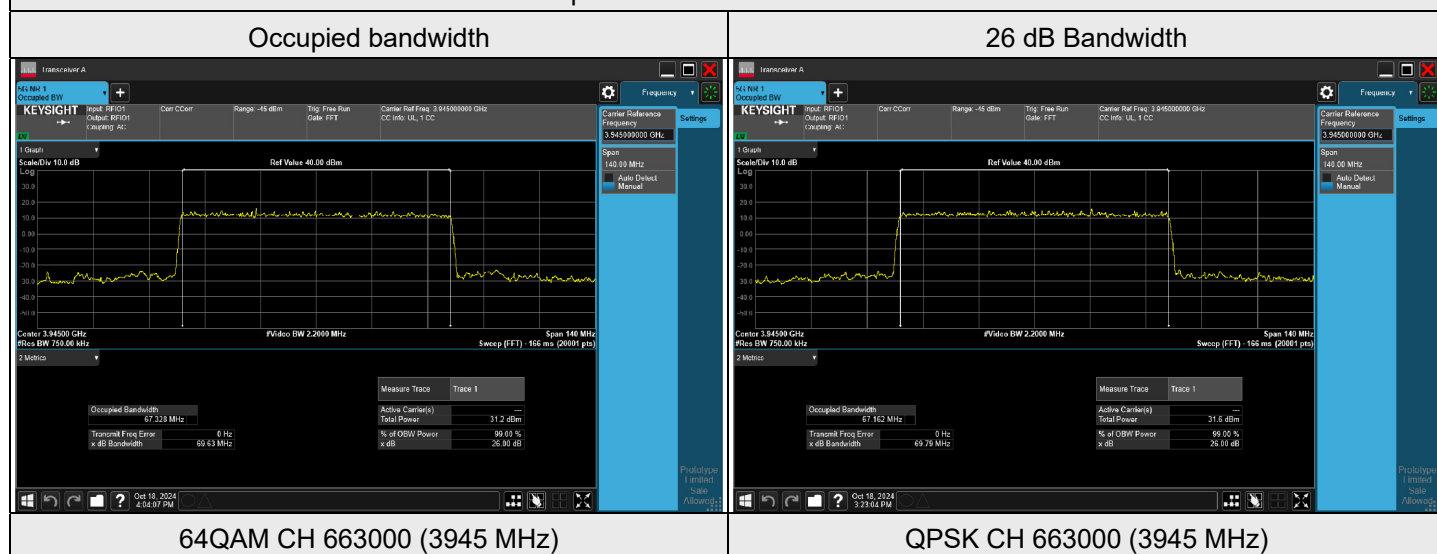
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO-Ant 4, Channel Bandwidth: 70 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	649000	3735	66.938	66.30
BPSK	656000	3840	66.963	66.44
BPSK	663000	3945	66.934	66.42
QPSK	649000	3735	67.131	69.62
QPSK	656000	3840	67.277	69.61
QPSK	663000	3945	67.162	69.79
16QAM	649000	3735	67.065	69.66
16QAM	656000	3840	67.078	69.52
16QAM	663000	3945	67.216	69.64
64QAM	649000	3735	67.305	69.68
64QAM	656000	3840	67.276	69.69
64QAM	663000	3945	67.328	69.63
256QAM	649000	3735	67.258	69.79
256QAM	656000	3840	67.289	69.58
256QAM	663000	3945	67.301	69.57

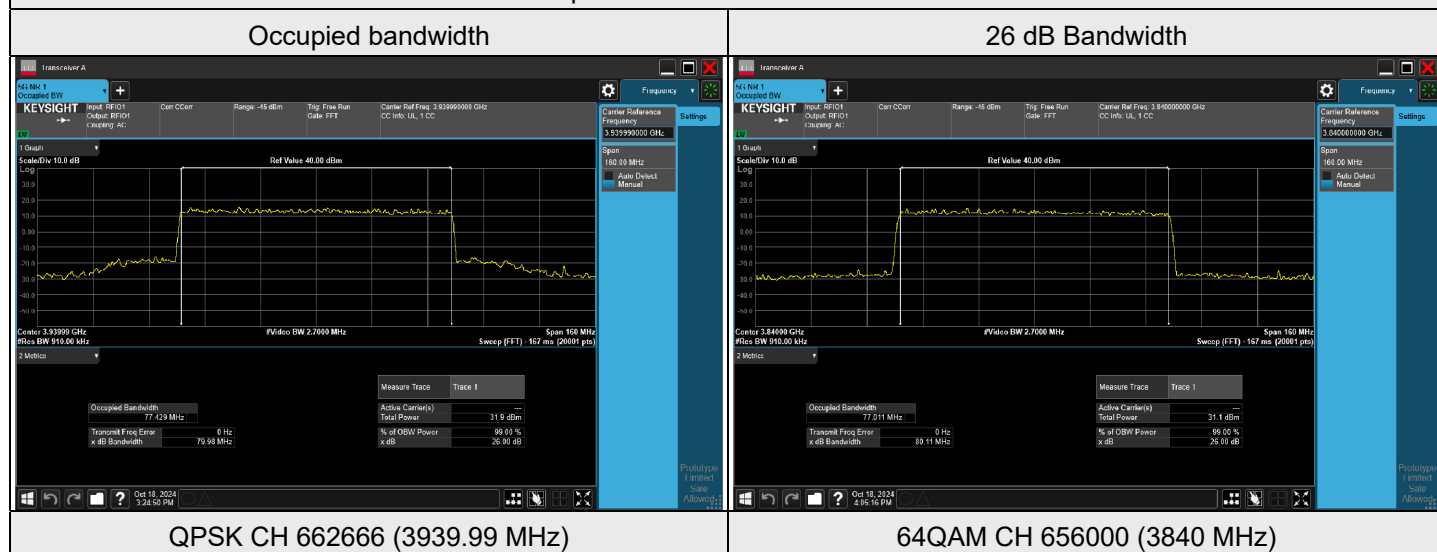
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO-Ant 4, Channel Bandwidth: 80 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	649334	3740.01	76.918	79.59
BPSK	656000	3840	76.918	79.69
BPSK	662666	3939.99	76.948	79.66
QPSK	649334	3740.01	77.238	79.96
QPSK	656000	3840	77.392	79.97
QPSK	662666	3939.99	77.429	79.98
16QAM	649334	3740.01	77.222	79.93
16QAM	656000	3840	77.299	79.85
16QAM	662666	3939.99	77.347	79.87
64QAM	649334	3740.01	77.063	80.02
64QAM	656000	3840	77.011	80.11
64QAM	662666	3939.99	77.044	80.01
256QAM	649334	3740.01	77.236	79.99
256QAM	656000	3840	77.222	80.08
256QAM	662666	3939.99	77.139	79.86

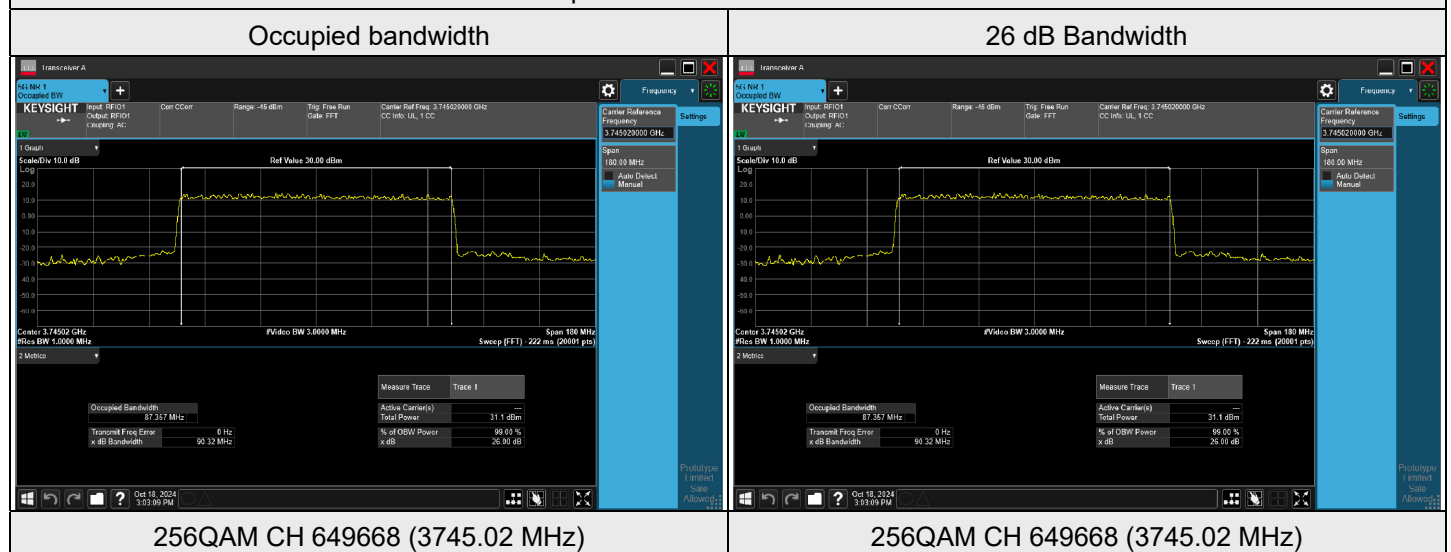
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO-Ant 4, Channel Bandwidth: 90 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	649668	3745.02	86.333	89.41
BPSK	656000	3840	86.729	89.49
BPSK	662332	3934.98	86.726	89.57
QPSK	649668	3745.02	87.251	90.22
QPSK	656000	3840	87.305	90.22
QPSK	662332	3934.98	87.301	90.25
16QAM	649668	3745.02	87.246	90.29
16QAM	656000	3840	87.265	90.13
16QAM	662332	3934.98	87.231	90.16
64QAM	649668	3745.02	87.126	90.21
64QAM	656000	3840	87.177	90.10
64QAM	662332	3934.98	87.124	90.18
256QAM	649668	3745.02	87.357	90.32
256QAM	656000	3840	87.284	90.30
256QAM	662332	3934.98	87.121	90.17

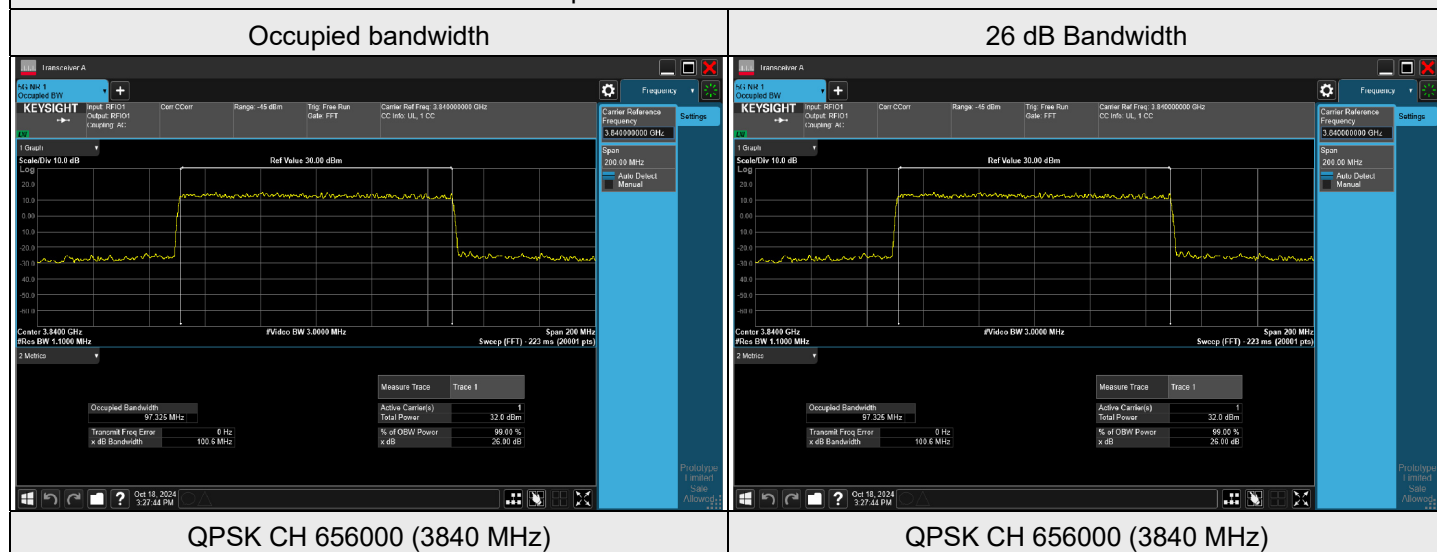
Spectrum Plot of Worst Value



NR n77 SCS 30 kHz (3.7 GHz ~ 3.98 GHz) - MIMO-Ant 4, Channel Bandwidth: 100 MHz

Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	650000	3750	96.410	99.51
BPSK	656000	3840	96.667	99.51
BPSK	662000	3930	96.525	99.49
QPSK	650000	3750	97.209	100.4
QPSK	656000	3840	97.325	100.6
QPSK	662000	3930	97.182	100.4
16QAM	650000	3750	97.105	100.5
16QAM	656000	3840	97.269	100.5
16QAM	662000	3930	97.205	100.6
64QAM	650000	3750	97.189	100.4
64QAM	656000	3840	97.161	100.3
64QAM	662000	3930	97.168	100.5
256QAM	650000	3750	97.069	100.5
256QAM	656000	3840	97.083	100.5
256QAM	662000	3930	97.122	100.6

Spectrum Plot of Worst Value



7.5 Conducted Spurious Emissions

Input Power:	7.2 Vdc	Environmental Conditions:	22°C, 73% RH	Tested By:	James Yang
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7.5.1 NR n2 SCS 15 kHz

NR n2 SCS 15 kHz - MIMO-Ant 1, Channel Bandwidth: 5 MHz

