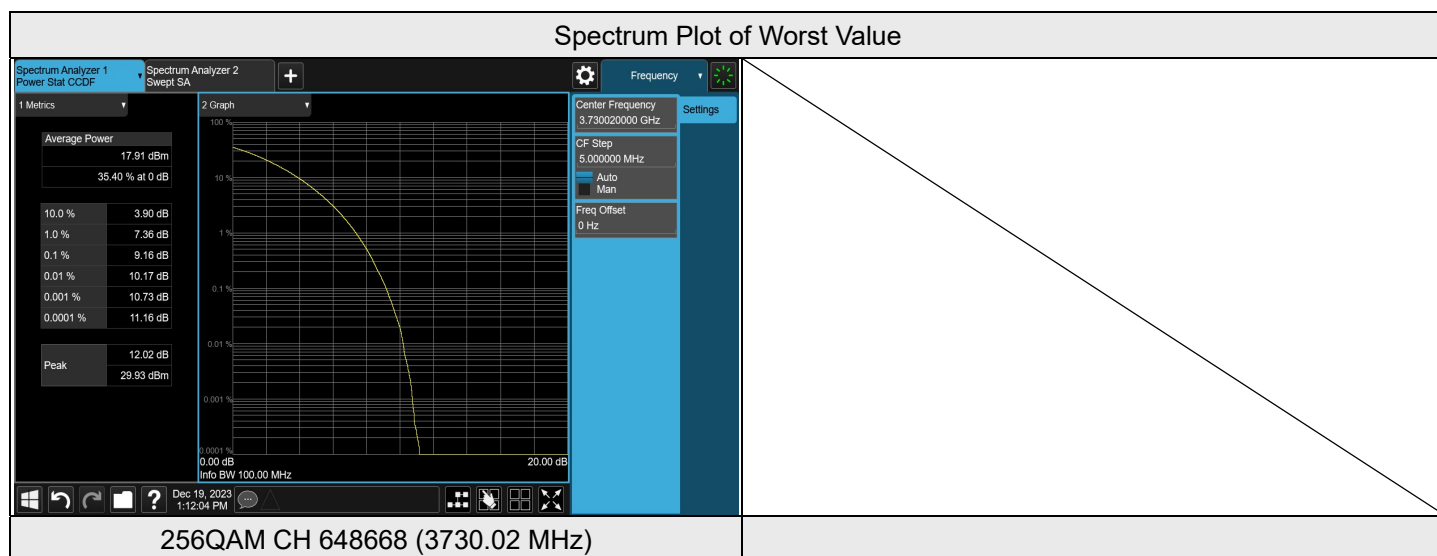


NR n77 (3700-3980 MHz) SCS 30 kHz, Channel Bandwidth: 60 MHz

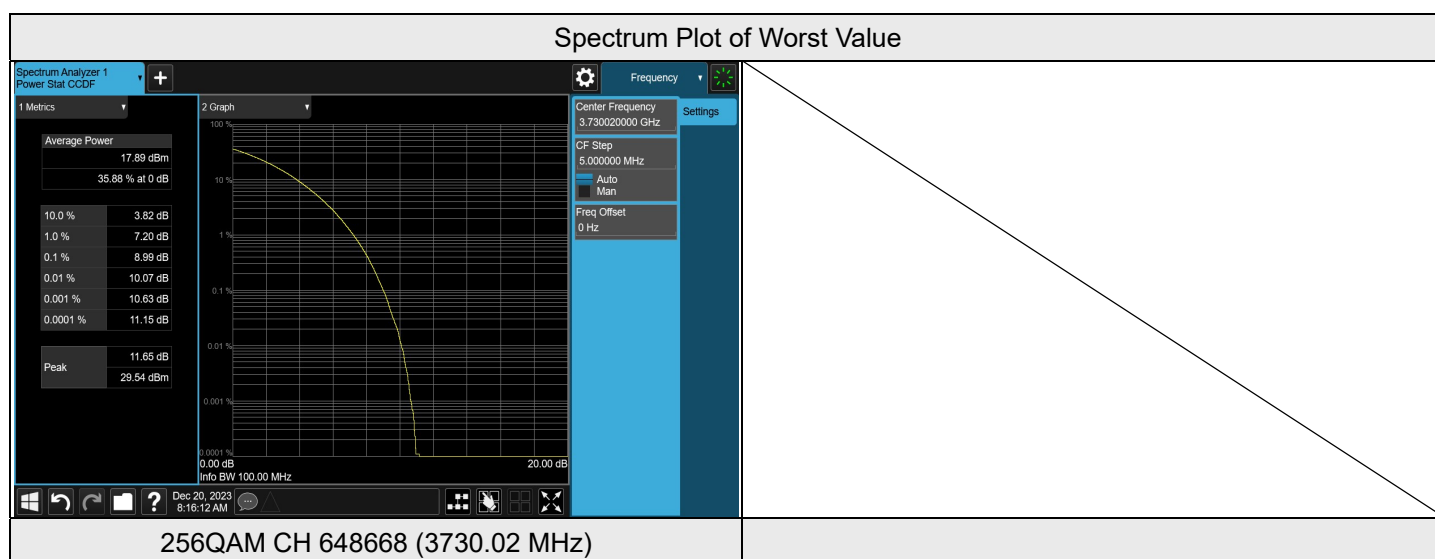
Chain 0

NR n77 SCS 30 kHz (3700-3980 MHz) 60M					
Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 648668	CH 656000	CH 663332
			3730.02 MHz	3840 MHz	3949.98 MHz
QPSK	1	0	8.62	8.14	8.24
16QAM	1	0	8.43	8.15	8.10
64QAM	1	0	8.64	8.45	8.32
256QAM	1	0	9.16	8.78	8.65



Chain 1

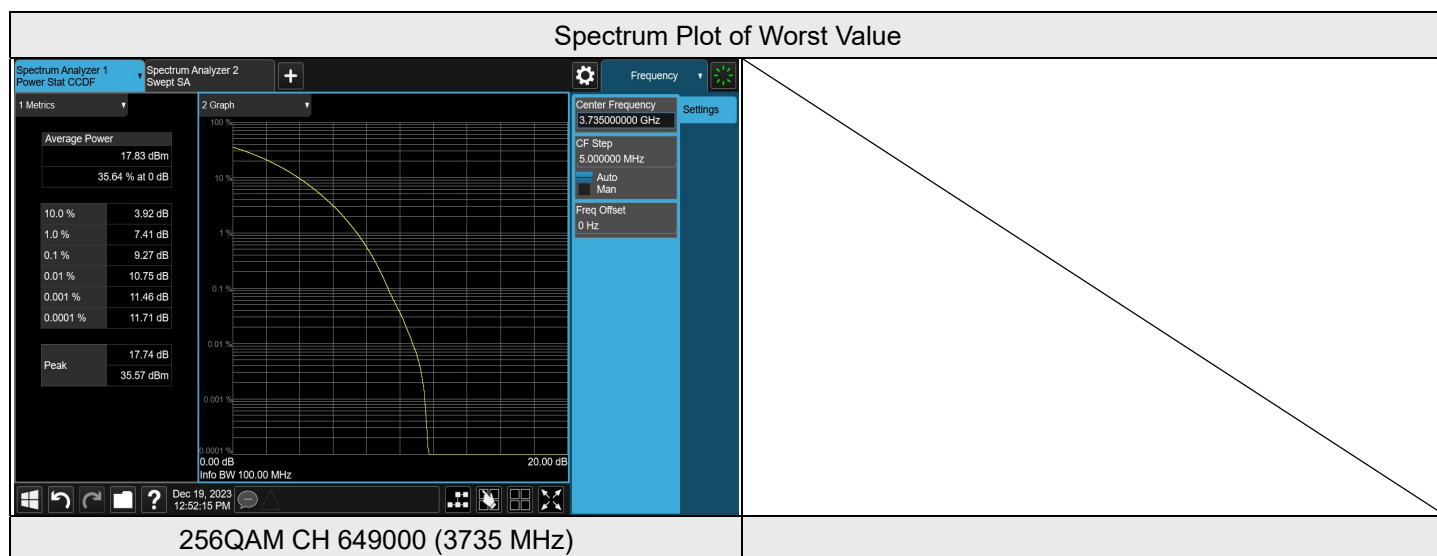
NR n77 SCS 30 kHz (3700-3980 MHz) 60M					
Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 648668	CH 656000	CH 663332
			3730.02 MHz	3840 MHz	3949.98 MHz
QPSK	1	0	8.70	8.80	8.12
16QAM	1	0	8.64	8.73	8.23
64QAM	1	0	8.98	8.69	8.46
256QAM	1	0	8.99	8.99	8.45



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

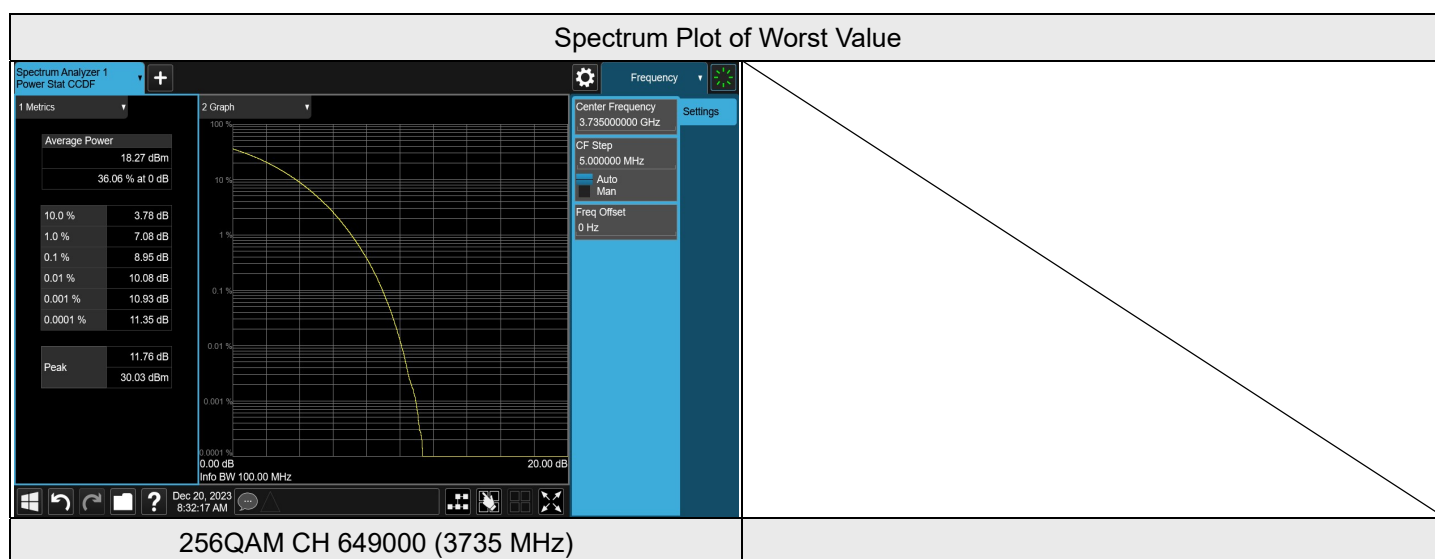
Chain 0

NR n77 SCS 30 kHz (3700-3980 MHz) 70M					
Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 649000	CH 656000	CH 663000
			3735 MHz	3840 MHz	3945 MHz
QPSK	1	0	8.98	8.16	8.30
16QAM	1	0	8.50	8.11	8.15
64QAM	1	0	8.87	8.63	8.49
256QAM	1	0	9.27	8.73	8.49



Chain 1

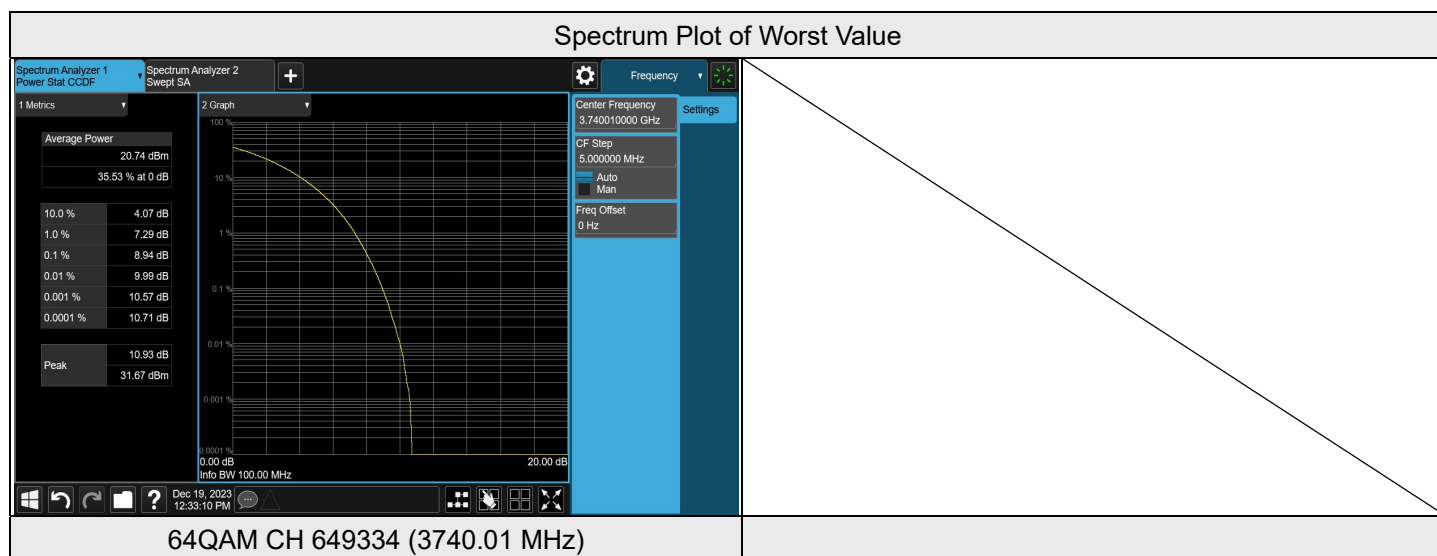
NR n77 SCS 30 kHz (3700-3980 MHz) 70M					
Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 649000	CH 656000	CH 663000
			3735 MHz	3840 MHz	3945 MHz
QPSK	1	0	8.74	8.57	8.16
16QAM	1	0	8.64	8.57	8.08
64QAM	1	0	8.91	8.72	8.31
256QAM	1	0	8.95	8.89	8.56



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

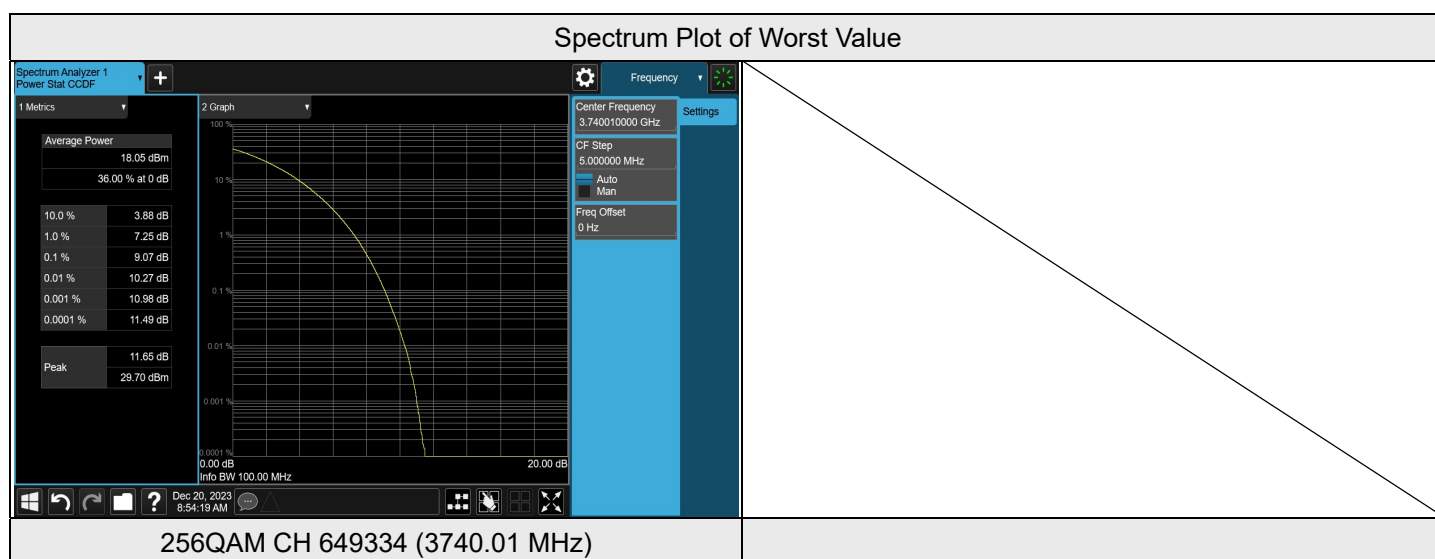
Chain 0

NR n77 SCS 30 kHz (3700-3980 MHz) 80M					
Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 649334	CH 656000	CH 662666
			3740.01 MHz	3840 MHz	3939.99 MHz
QPSK	1	0	8.72	8.45	8.54
16QAM	1	0	8.56	8.53	8.27
64QAM	1	0	8.94	8.60	8.49
256QAM	1	0	8.83	8.84	8.64



Chain 1

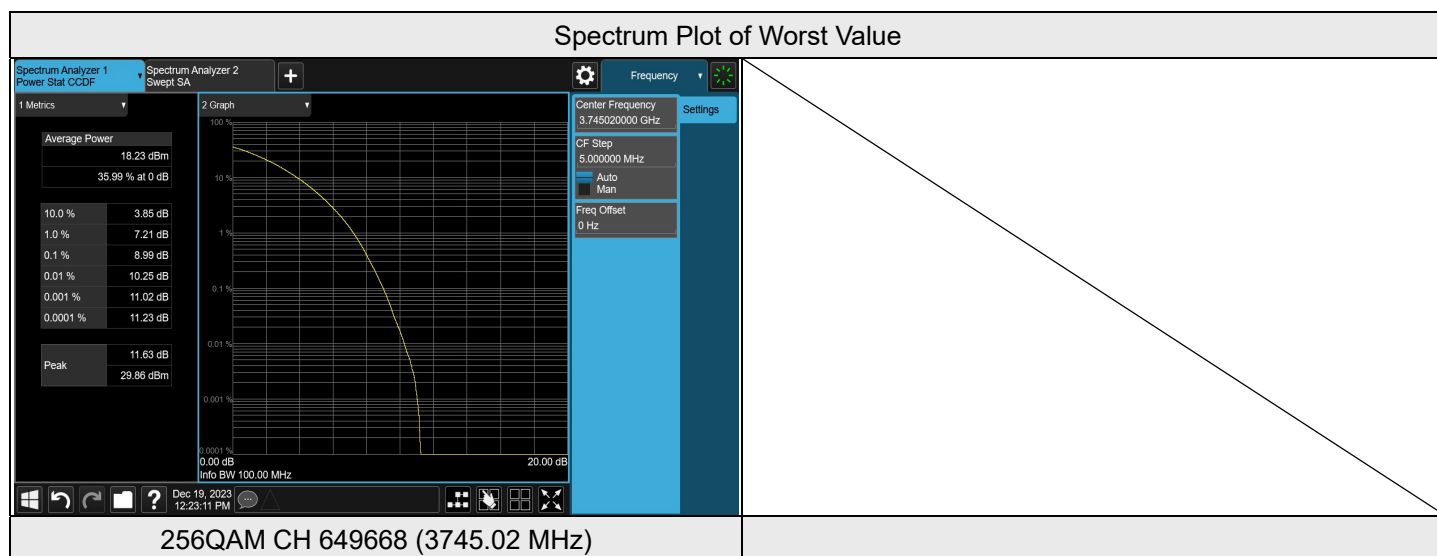
NR n77 SCS 30 kHz (3700-3980 MHz) 80M					
Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 649334	CH 656000	CH 662666
			3740.01 MHz	3840 MHz	3939.99 MHz
QPSK	1	0	8.87	8.61	8.57
16QAM	1	0	8.91	8.52	8.46
64QAM	1	0	8.72	8.86	8.39
256QAM	1	0	9.07	9.02	8.67



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

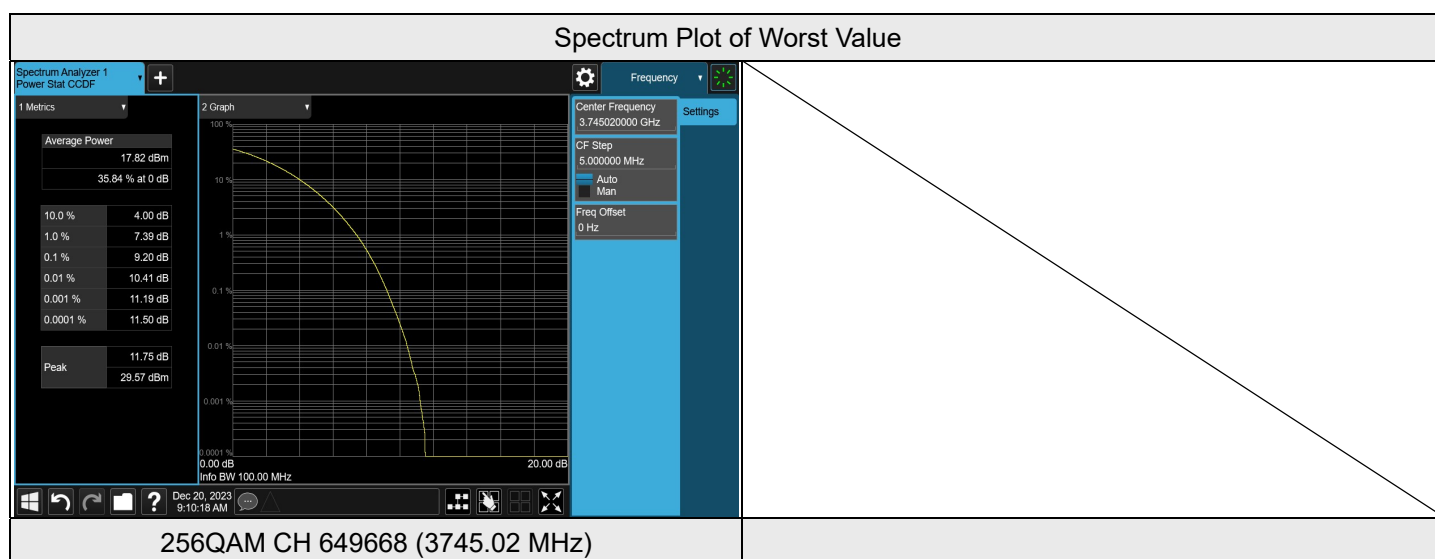
Chain 0

NR n77 SCS 30 kHz (3700-3980 MHz) 90M					
Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 649668	CH 656000	CH 662332
			3745.02 MHz	3840 MHz	3934.98 MHz
QPSK	1	0	8.53	8.62	8.63
16QAM	1	0	8.79	8.71	8.29
64QAM	1	0	8.87	8.63	8.38
256QAM	1	0	8.99	8.83	8.54



Chain 1

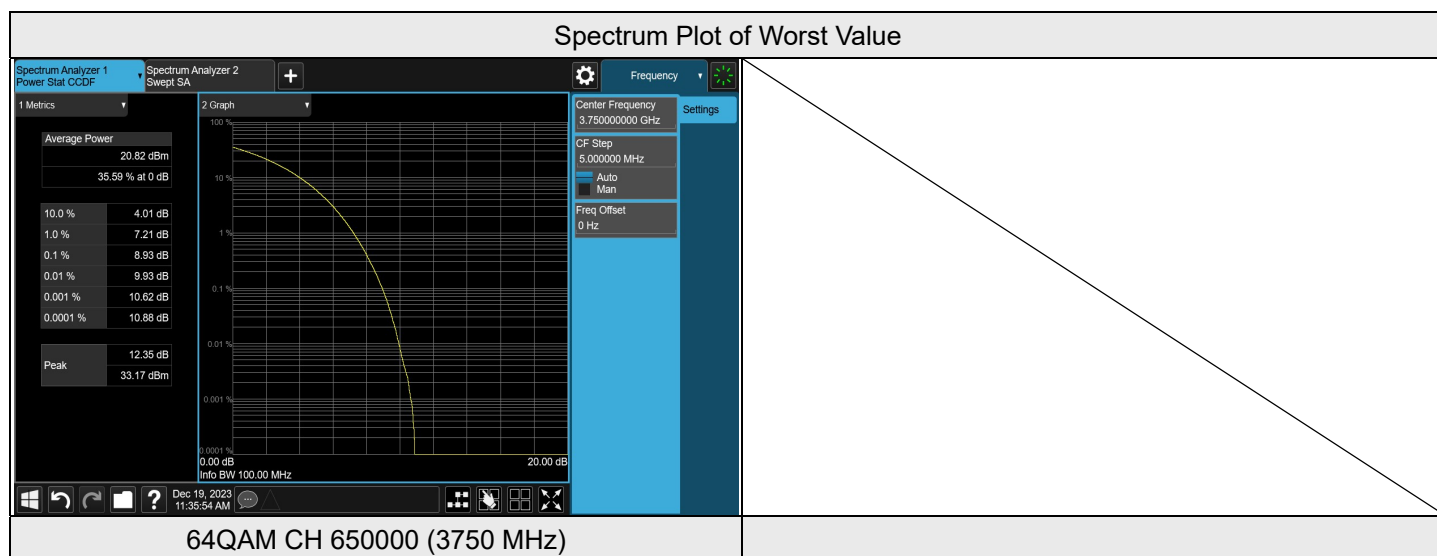
NR n77 SCS 30 kHz (3700-3980 MHz) 90M					
Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 649668	CH 656000	CH 662332
			3745.02 MHz	3840 MHz	3934.98 MHz
QPSK	1	0	8.70	8.57	8.33
16QAM	1	0	8.82	8.79	8.41
64QAM	1	0	8.89	8.94	8.44
256QAM	1	0	9.20	8.86	8.64



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

Chain 0

NR n77 SCS 30 kHz (3700-3800 MHz) 100M					
Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 650000	CH 656000	CH 662000
			3750 MHz	3840 MHz	3930 MHz
QPSK	1	0	8.78	8.68	8.51
16QAM	1	0	8.58	8.58	8.46
64QAM	1	0	8.93	8.66	8.57
256QAM	1	0	8.78	8.85	8.59

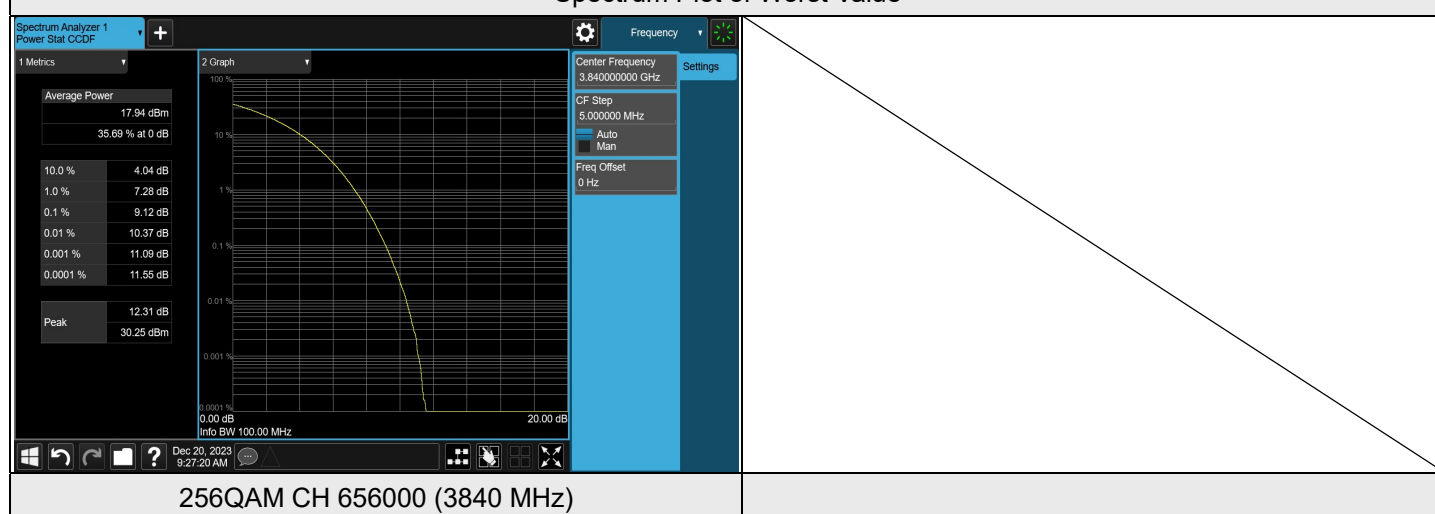


Chain 1

NR n77 SCS 30 kHz (3700-3800 MHz) 100M

Modulation	RB Size	RB Offset	Peak To Average Ratio (dB)		
			CH 650000	CH 656000	CH 662000
			3750 MHz	3840 MHz	3930 MHz
QPSK	1	0	8.73	8.63	8.32
16QAM	1	0	8.70	8.68	8.31
64QAM	1	0	8.64	8.61	8.38
256QAM	1	0	8.88	9.12	8.48

Spectrum Plot of Worst Value



256QAM CH 656000 (3840 MHz)

7.4 Bandwidth

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	21°C, 70% RH	Tested By:	James Yang
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7.4.1 NR n2 SCS 15 kHz

NR n2 SCS 15 kHz, Channel Bandwidth: 5 MHz

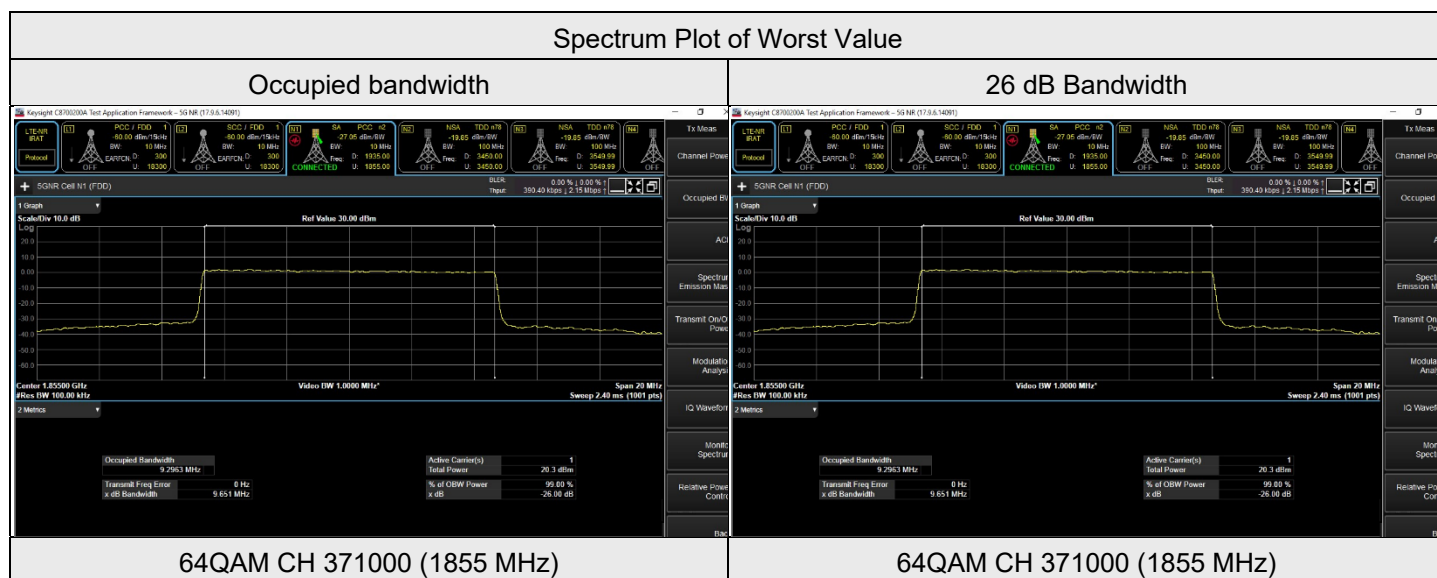
NR n2 SCS 15 kHz 5M				
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	370500	1852.5	4.4679	4.734
BPSK	376000	1880	4.4665	4.698
BPSK	381500	1907.5	4.4829	4.734
QPSK	370500	1852.5	4.4801	4.713
QPSK	376000	1880	4.4689	4.728
QPSK	381500	1907.5	4.4673	4.731
16QAM	370500	1852.5	4.4676	4.702
16QAM	376000	1880	4.4699	4.742
16QAM	381500	1907.5	4.4678	4.713
64QAM	370500	1852.5	4.4689	4.696
64QAM	376000	1880	4.4825	4.714
64QAM	381500	1907.5	4.4699	4.728
256QAM	370500	1852.5	4.4683	4.722
256QAM	376000	1880	4.4803	4.691
256QAM	381500	1907.5	4.4655	4.710

Spectrum Plot of Worst Value



NR n2 SCS 15 kHz, Channel Bandwidth: 10 MHz

NR n2 SCS 15 kHz 10M				
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	371000	1855	9.2464	9.266
BPSK	376000	1880	9.2441	9.259
BPSK	381000	1905	9.2489	9.254
QPSK	371000	1855	9.2910	9.642
QPSK	376000	1880	9.2908	9.628
QPSK	381000	1905	9.2930	9.629
16QAM	371000	1855	9.2947	9.624
16QAM	376000	1880	9.2882	9.613
16QAM	381000	1905	9.2940	9.620
64QAM	371000	1855	9.2963	9.651
64QAM	376000	1880	9.2915	9.626
64QAM	381000	1905	9.2891	9.620
256QAM	371000	1855	9.2927	9.622
256QAM	376000	1880	9.2876	9.611
256QAM	381000	1905	9.2920	9.617



NR n2 SCS 15 kHz, Channel Bandwidth: 15 MHz

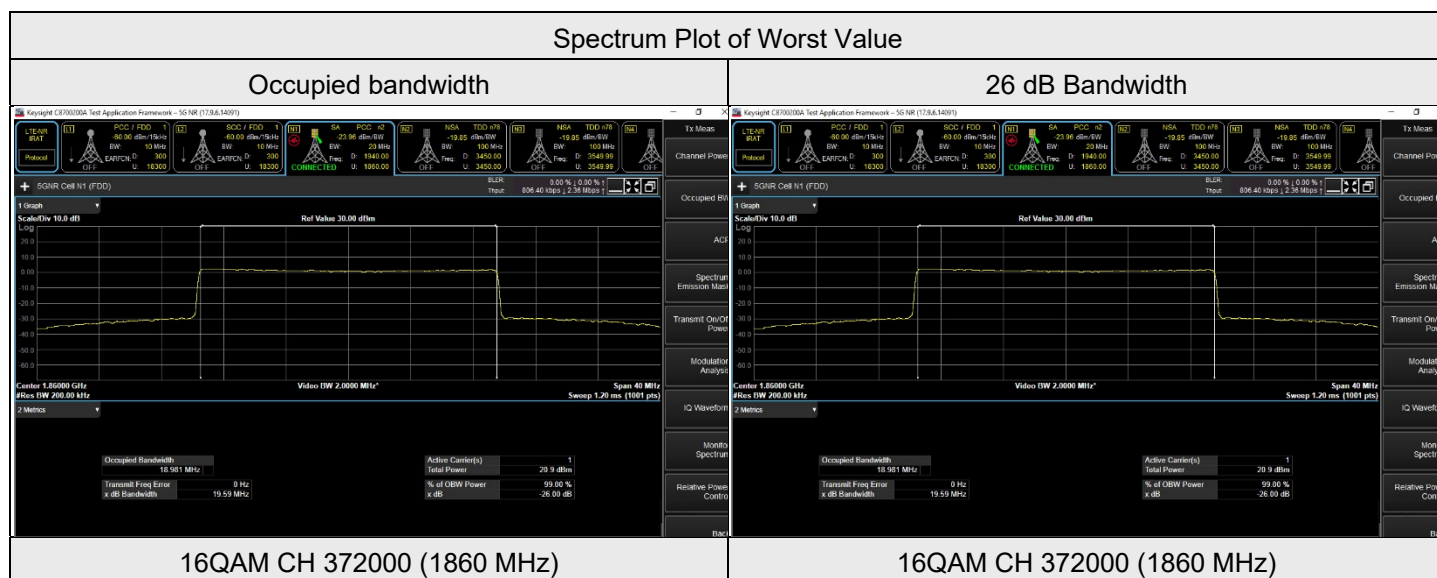
NR n2 SCS 15 kHz 15M				
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	371500	1857.5	14.009	13.87
BPSK	376000	1880	14.051	13.87
BPSK	380500	1902.5	14.008	13.86
QPSK	371500	1857.5	14.124	14.62
QPSK	376000	1880	14.115	14.60
QPSK	380500	1902.5	14.104	14.59
16QAM	371500	1857.5	14.122	14.59
16QAM	376000	1880	14.115	14.59
16QAM	380500	1902.5	14.105	14.59
64QAM	371500	1857.5	14.125	14.59
64QAM	376000	1880	14.115	14.59
64QAM	380500	1902.5	14.103	14.58
256QAM	371500	1857.5	14.125	14.61
256QAM	376000	1880	14.120	14.6
256QAM	380500	1902.5	14.102	14.58

Spectrum Plot of Worst Value



NR n2 SCS 15 kHz, Channel Bandwidth: 20 MHz

NR n2 SCS 15 kHz 20M				
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	372000	1860	18.822	18.48
BPSK	376000	1880	18.819	18.48
BPSK	380000	1900	18.729	18.47
QPSK	372000	1860	18.976	19.59
QPSK	376000	1880	18.914	19.55
QPSK	380000	1900	18.893	19.55
16QAM	372000	1860	18.981	19.59
16QAM	376000	1880	18.912	19.56
16QAM	380000	1900	18.897	19.55
64QAM	372000	1860	18.968	19.56
64QAM	376000	1880	18.919	19.56
64QAM	380000	1900	18.893	19.54
256QAM	372000	1860	18.970	19.56
256QAM	376000	1880	18.916	19.55
256QAM	380000	1900	18.885	19.54



7.4.2 NR n5 SCS 15 kHz

NR n5 SCS 15 kHz, Channel Bandwidth: 5 MHz

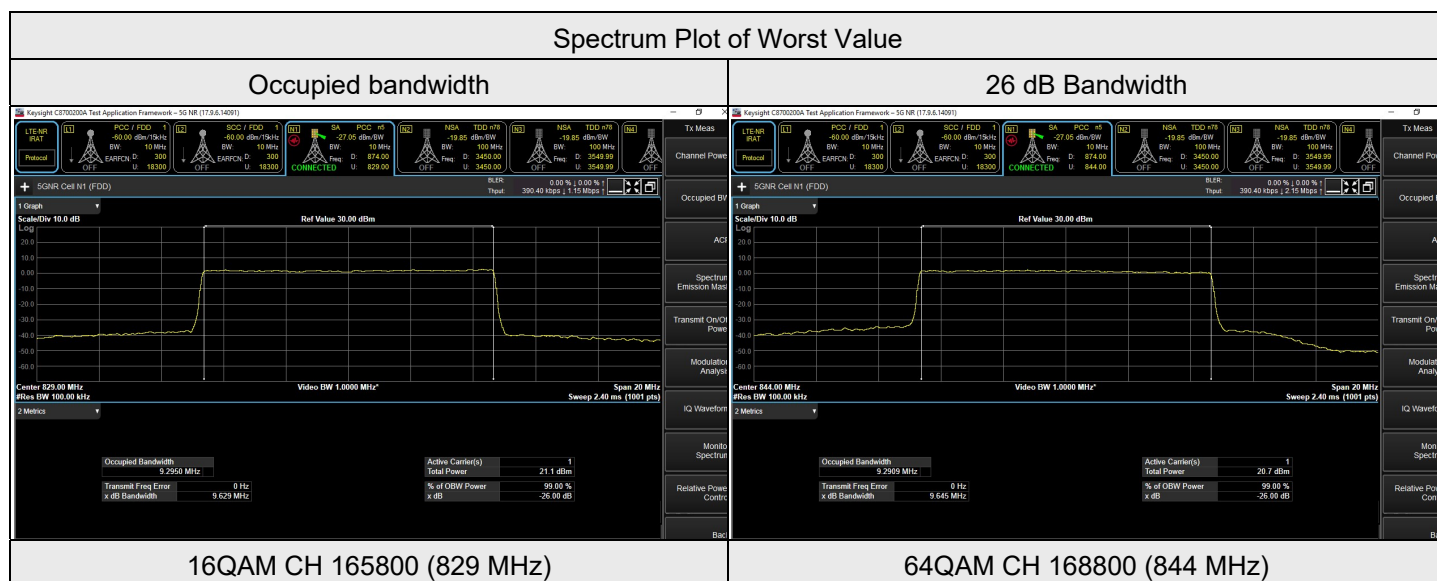
NR n5 SCS 15 kHz 5M				
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	165300	826.5	4.4670	4.712
BPSK	167300	836.5	4.4695	4.699
BPSK	169300	846.5	4.4688	4.716
QPSK	165300	826.5	4.4659	4.700
QPSK	167300	836.5	4.4672	4.678
QPSK	169300	846.5	4.4666	4.695
16QAM	165300	826.5	4.4673	4.690
16QAM	167300	836.5	4.4632	4.716
16QAM	169300	846.5	4.4691	4.701
64QAM	165300	826.5	4.4623	4.711
64QAM	167300	836.5	4.4663	4.689
64QAM	169300	846.5	4.4693	4.691
256QAM	165300	826.5	4.4685	4.705
256QAM	167300	836.5	4.4677	4.746
256QAM	169300	846.5	4.4653	4.680

Spectrum Plot of Worst Value



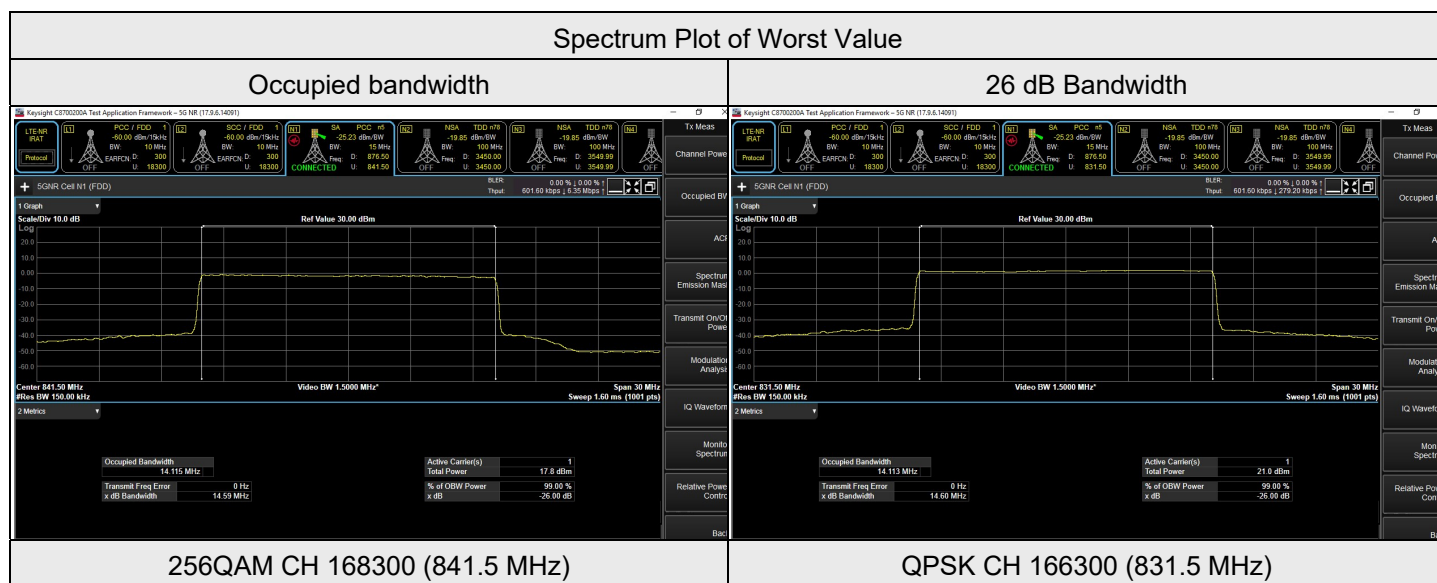
NR n5 SCS 15 kHz, Channel Bandwidth: 10 MHz

NR n5 SCS 15 kHz 10M				
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	165800	829	9.2449	9.265
BPSK	167300	836.5	9.2151	9.257
BPSK	168800	844	9.2110	9.248
QPSK	165800	829	9.2916	9.626
QPSK	167300	836.5	9.2844	9.618
QPSK	168800	844	9.2856	9.625
16QAM	165800	829	9.2950	9.629
16QAM	167300	836.5	9.2852	9.622
16QAM	168800	844	9.2866	9.611
64QAM	165800	829	9.2915	9.631
64QAM	167300	836.5	9.2825	9.627
64QAM	168800	844	9.2909	9.645
256QAM	165800	829	9.2946	9.644
256QAM	167300	836.5	9.2840	9.617
256QAM	168800	844	9.2888	9.629



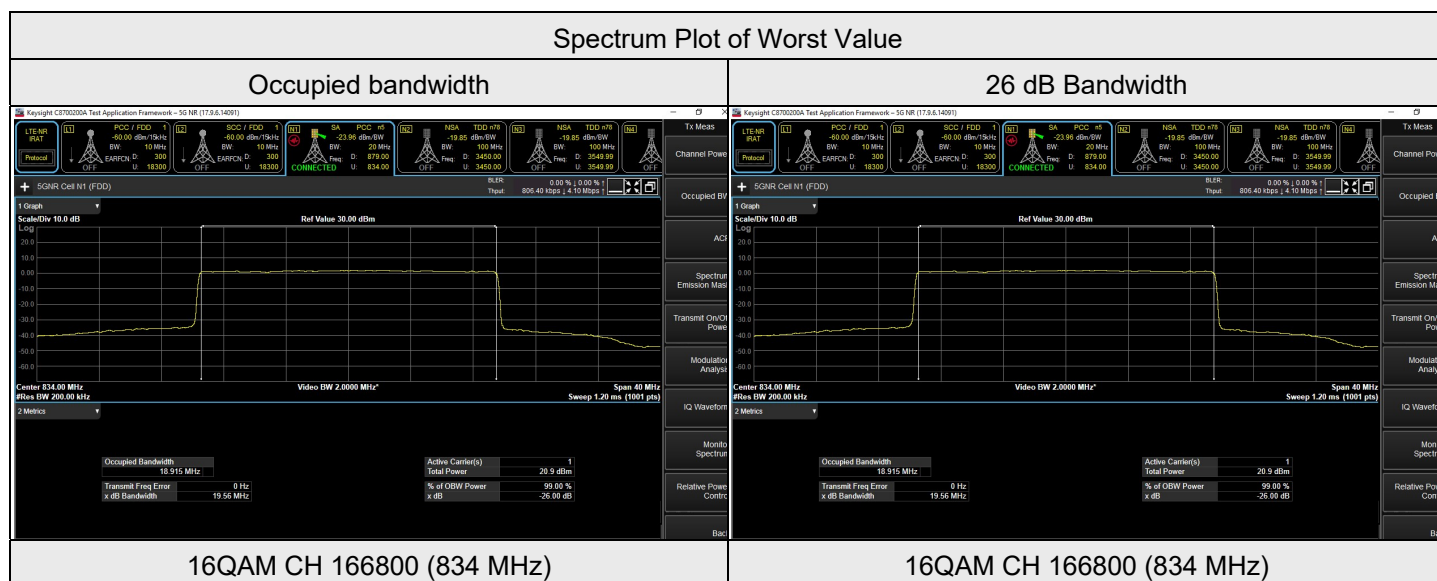
NR n5 SCS 15 kHz, Channel Bandwidth: 15 MHz

NR n5 SCS 15 kHz 15M				
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	166300	831.5	13.986	13.88
BPSK	167300	836.5	13.950	13.87
BPSK	168300	841.5	14.052	13.88
QPSK	166300	831.5	14.113	14.60
QPSK	167300	836.5	14.104	14.58
QPSK	168300	841.5	14.109	14.58
16QAM	166300	831.5	14.108	14.59
16QAM	167300	836.5	14.106	14.59
16QAM	168300	841.5	14.113	14.59
64QAM	166300	831.5	14.108	14.59
64QAM	167300	836.5	14.101	14.57
64QAM	168300	841.5	14.106	14.59
256QAM	166300	831.5	14.107	14.58
256QAM	167300	836.5	14.102	14.59
256QAM	168300	841.5	14.115	14.59



NR n5 SCS 15 kHz, Channel Bandwidth: 20 MHz

NR n5 SCS 15 kHz 20M				
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	166800	834	18.727	18.47
BPSK	167300	836.5	18.677	18.48
BPSK	167800	839	18.748	18.47
QPSK	166800	834	18.911	19.56
QPSK	167300	836.5	18.903	19.56
QPSK	167800	839	18.894	19.55
16QAM	166800	834	18.915	19.56
16QAM	167300	836.5	18.903	19.55
16QAM	167800	839	18.893	19.54
64QAM	166800	834	18.910	19.56
64QAM	167300	836.5	18.902	19.55
64QAM	167800	839	18.894	19.54
256QAM	166800	834	18.911	19.55
256QAM	167300	836.5	18.907	19.55
256QAM	167800	839	18.898	19.55



7.4.3 NR n14 SCS 15 kHz

NR n14 SCS 15 kHz, Channel Bandwidth: 5 MHz

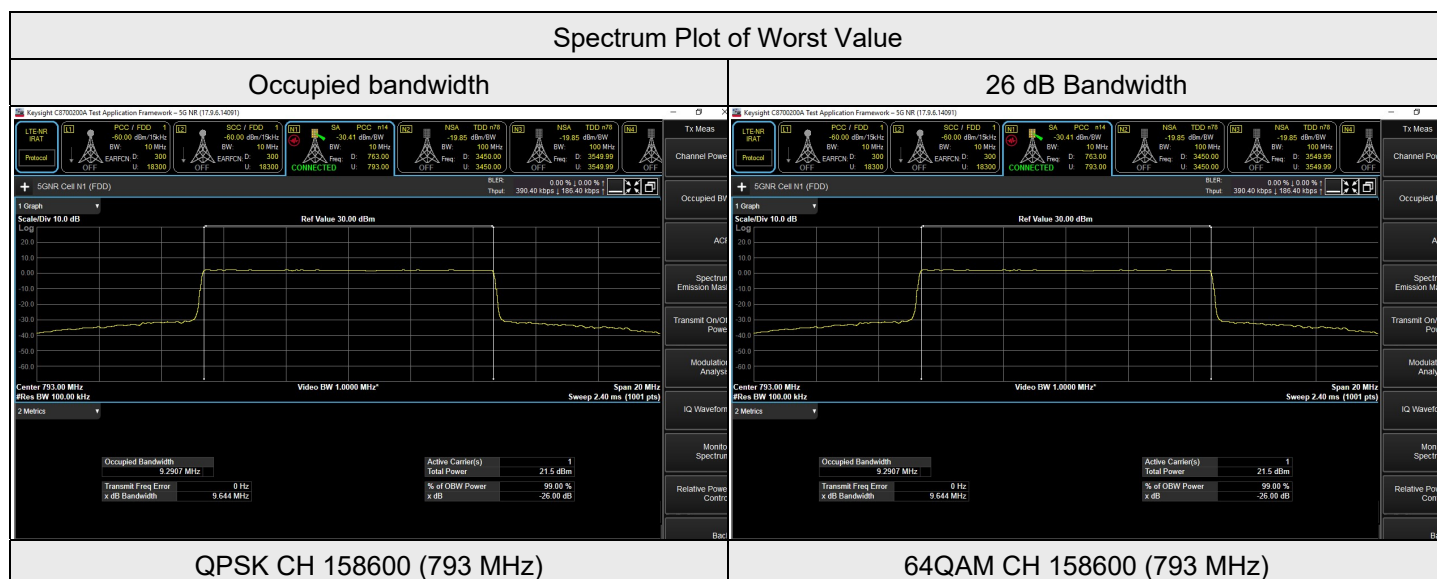
NR n14 SCS 15 kHz 5M				
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	158100	790.5	4.4669	4.679
BPSK	158600	793	4.4801	4.695
BPSK	159100	795.5	4.4657	4.729
QPSK	158100	790.5	4.4674	4.752
QPSK	158600	793	4.4670	4.728
QPSK	159100	795.5	4.4653	4.721
16QAM	158100	790.5	4.4678	4.697
16QAM	158600	793	4.4658	4.698
16QAM	159100	795.5	4.4639	4.694
64QAM	158100	790.5	4.4646	4.712
64QAM	158600	793	4.4688	4.718
64QAM	159100	795.5	4.4675	4.689
256QAM	158100	790.5	4.4686	4.721
256QAM	158600	793	4.4655	4.690
256QAM	159100	795.5	4.4664	4.659

Spectrum Plot of Worst Value



NR n14 SCS 15 kHz, Channel Bandwidth: 10 MHz

NR n14 SCS 15 kHz 10M				
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	158600	793	9.2431	9.268
QPSK	158600	793	9.2907	9.644
16QAM	158600	793	9.2837	9.611
64QAM	158600	793	9.2892	9.626
256QAM	158600	793	9.2877	9.610



7.4.4 NR n30 SCS 15 kHz

NR n30 SCS 15 kHz, Channel Bandwidth: 5 MHz

NR n30 SCS 15 kHz 5M				
Modulation	Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	26 dB Bandwidth (MHz)
BPSK	461500	2307.5	4.4673	4.727
BPSK	462000	2310	4.4675	4.716
BPSK	462500	2312.5	4.4619	4.694
QPSK	461500	2307.5	4.4648	4.701
QPSK	462000	2310	4.4670	4.729
QPSK	462500	2312.5	4.4666	4.689
16QAM	461500	2307.5	4.4667	4.701
16QAM	462000	2310	4.4663	4.711
16QAM	462500	2312.5	4.4803	4.725
64QAM	461500	2307.5	4.4656	4.696
64QAM	462000	2310	4.4675	4.701
64QAM	462500	2312.5	4.4664	4.702
256QAM	461500	2307.5	4.4661	4.710
256QAM	462000	2310	4.4688	4.721
256QAM	462500	2312.5	4.4644	4.679

Spectrum Plot of Worst Value

