

1 Conducted output power for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)	Gain (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
n78(3550-3700)	30	70	639000	90@45	DFT_BPSK	26.49	-3.6	22.89	30	PASS
n78(3550-3700)	30	70	639000	1@1	DFT_BPSK	26.36	-3.6	22.76	30	PASS
n78(3550-3700)	30	70	639000	1@187	DFT_BPSK	26.06	-3.6	22.46	30	PASS
n78(3550-3700)	30	70	639000	90@45	DFT_QPSK	26.50	-3.6	22.90	30	PASS
n78(3550-3700)	30	70	639000	1@1	DFT_QPSK	26.19	-3.6	22.59	30	PASS
n78(3550-3700)	30	70	639000	1@187	DFT_QPSK	25.86	-3.6	22.26	30	PASS
n78(3550-3700)	30	70	639000	90@45	DFT_QAM16	25.48	-3.6	21.88	30	PASS
n78(3550-3700)	30	70	639000	1@1	DFT_QAM16	25.59	-3.6	21.99	30	PASS
n78(3550-3700)	30	70	639000	1@187	DFT_QAM16	25.26	-3.6	21.66	30	PASS
n78(3550-3700)	30	70	639000	90@45	DFT_QAM64	24.04	-3.6	20.44	30	PASS
n78(3550-3700)	30	70	639000	1@1	DFT_QAM64	23.93	-3.6	20.33	30	PASS
n78(3550-3700)	30	70	639000	1@187	DFT_QAM64	23.63	-3.6	20.03	30	PASS
n78(3550-3700)	30	70	639000	90@45	DFT_QAM256	22.00	-3.6	18.40	30	PASS
n78(3550-3700)	30	70	639000	1@1	DFT_QAM256	21.95	-3.6	18.35	30	PASS
n78(3550-3700)	30	70	639000	1@187	DFT_QAM256	21.52	-3.6	17.92	30	PASS
n78(3550-3700)	30	70	639000	95@47	CP_QPSK	24.97	-3.6	21.37	30	PASS
n78(3550-3700)	30	70	639000	1@1	CP_QPSK	24.82	-3.6	21.22	30	PASS
n78(3550-3700)	30	70	639000	1@187	CP_QPSK	24.60	-3.6	21.00	30	PASS
n78(3550-3700)	30	70	639000	95@47	CP_QAM16	24.54	-3.6	20.94	30	PASS
n78(3550-3700)	30	70	639000	1@1	CP_QAM16	24.45	-3.6	20.85	30	PASS
n78(3550-3700)	30	70	639000	1@187	CP_QAM16	24.15	-3.6	20.55	30	PASS
n78(3550-3700)	30	70	639000	95@47	CP_QAM64	23.03	-3.6	19.43	30	PASS
n78(3550-3700)	30	70	639000	1@1	CP_QAM64	23.13	-3.6	19.53	30	PASS
n78(3550-3700)	30	70	639000	1@187	CP_QAM64	22.84	-3.6	19.24	30	PASS
n78(3550-3700)	30	70	639000	95@47	CP_QAM256	20.20	-3.6	16.60	30	PASS
n78(3550-3700)	30	70	639000	1@1	CP_QAM256	20.05	-3.6	16.45	30	PASS
n78(3550-3700)	30	70	639000	1@187	CP_QAM256	19.78	-3.6	16.18	30	PASS
n78(3550-3700)	30	70	641666	90@45	DFT_BPSK	26.52	-3.6	22.92	30	PASS
n78(3550-3700)	30	70	641666	1@1	DFT_BPSK	26.20	-3.6	22.60	30	PASS
n78(3550-3700)	30	70	641666	1@187	DFT_BPSK	25.58	-3.6	21.98	30	PASS
n78(3550-3700)	30	70	641666	90@45	DFT_QPSK	26.53	-3.6	22.93	30	PASS
n78(3550-3700)	30	70	641666	1@1	DFT_QPSK	26.14	-3.6	22.54	30	PASS
n78(3550-3700)	30	70	641666	1@187	DFT_QPSK	25.44	-3.6	21.84	30	PASS
n78(3550-3700)	30	70	641666	90@45	DFT_QAM16	25.48	-3.6	21.88	30	PASS
n78(3550-3700)	30	70	641666	1@1	DFT_QAM16	25.37	-3.6	21.77	30	PASS
n78(3550-3700)	30	70	641666	1@187	DFT_QAM16	24.76	-3.6	21.16	30	PASS
n78(3550-3700)	30	70	641666	90@45	DFT_QAM64	23.97	-3.6	20.37	30	PASS
n78(3550-3700)	30	70	641666	1@1	DFT_QAM64	23.90	-3.6	20.30	30	PASS

n78(3550-3700)	30	70	641666	1@187	DFT_QAM64	23.11	-3.6	19.51	30	PASS
n78(3550-3700)	30	70	641666	90@45	DFT_QAM256	21.99	-3.6	18.39	30	PASS
n78(3550-3700)	30	70	641666	1@1	DFT_QAM256	21.74	-3.6	18.14	30	PASS
n78(3550-3700)	30	70	641666	1@187	DFT_QAM256	21.03	-3.6	17.43	30	PASS
n78(3550-3700)	30	70	641666	95@47	CP_QPSK	24.90	-3.6	21.30	30	PASS
n78(3550-3700)	30	70	641666	1@1	CP_QPSK	24.78	-3.6	21.18	30	PASS
n78(3550-3700)	30	70	641666	1@187	CP_QPSK	24.01	-3.6	20.41	30	PASS
n78(3550-3700)	30	70	641666	95@47	CP_QAM16	24.46	-3.6	20.86	30	PASS
n78(3550-3700)	30	70	641666	1@1	CP_QAM16	24.48	-3.6	20.88	30	PASS
n78(3550-3700)	30	70	641666	1@187	CP_QAM16	23.35	-3.6	19.75	30	PASS
n78(3550-3700)	30	70	641666	95@47	CP_QAM64	22.92	-3.6	19.32	30	PASS
n78(3550-3700)	30	70	641666	1@1	CP_QAM64	23.31	-3.6	19.71	30	PASS
n78(3550-3700)	30	70	641666	1@187	CP_QAM64	22.63	-3.6	19.03	30	PASS
n78(3550-3700)	30	70	641666	95@47	CP_QAM256	20.23	-3.6	16.63	30	PASS
n78(3550-3700)	30	70	641666	1@1	CP_QAM256	19.96	-3.6	16.36	30	PASS
n78(3550-3700)	30	70	641666	1@187	CP_QAM256	19.28	-3.6	15.68	30	PASS
n78(3550-3700)	30	70	644332	90@45	DFT_BPSK	26.08	-3.6	22.48	30	PASS
n78(3550-3700)	30	70	644332	1@1	DFT_BPSK	26.02	-3.6	22.42	30	PASS
n78(3550-3700)	30	70	644332	1@187	DFT_BPSK	25.95	-3.6	22.35	30	PASS
n78(3550-3700)	30	70	644332	90@45	DFT_QPSK	26.08	-3.6	22.48	30	PASS
n78(3550-3700)	30	70	644332	1@1	DFT_QPSK	25.81	-3.6	22.21	30	PASS
n78(3550-3700)	30	70	644332	1@187	DFT_QPSK	25.87	-3.6	22.27	30	PASS
n78(3550-3700)	30	70	644332	90@45	DFT_QAM16	24.98	-3.6	21.38	30	PASS
n78(3550-3700)	30	70	644332	1@1	DFT_QAM16	25.22	-3.6	21.62	30	PASS
n78(3550-3700)	30	70	644332	1@187	DFT_QAM16	25.11	-3.6	21.51	30	PASS
n78(3550-3700)	30	70	644332	90@45	DFT_QAM64	23.50	-3.6	19.90	30	PASS
n78(3550-3700)	30	70	644332	1@1	DFT_QAM64	23.65	-3.6	20.05	30	PASS
n78(3550-3700)	30	70	644332	1@187	DFT_QAM64	23.60	-3.6	20.00	30	PASS
n78(3550-3700)	30	70	644332	90@45	DFT_QAM256	21.51	-3.6	17.91	30	PASS
n78(3550-3700)	30	70	644332	1@1	DFT_QAM256	21.58	-3.6	17.98	30	PASS
n78(3550-3700)	30	70	644332	1@187	DFT_QAM256	21.45	-3.6	17.85	30	PASS
n78(3550-3700)	30	70	644332	95@47	CP_QPSK	24.51	-3.6	20.91	30	PASS
n78(3550-3700)	30	70	644332	1@1	CP_QPSK	24.47	-3.6	20.87	30	PASS
n78(3550-3700)	30	70	644332	1@187	CP_QPSK	24.51	-3.6	20.91	30	PASS
n78(3550-3700)	30	70	644332	95@47	CP_QAM16	24.10	-3.6	20.50	30	PASS
n78(3550-3700)	30	70	644332	1@1	CP_QAM16	24.15	-3.6	20.55	30	PASS
n78(3550-3700)	30	70	644332	1@187	CP_QAM16	24.12	-3.6	20.52	30	PASS
n78(3550-3700)	30	70	644332	95@47	CP_QAM64	22.55	-3.6	18.95	30	PASS
n78(3550-3700)	30	70	644332	1@1	CP_QAM64	22.71	-3.6	19.11	30	PASS
n78(3550-3700)	30	70	644332	1@187	CP_QAM64	22.71	-3.6	19.11	30	PASS
n78(3550-3700)	30	70	644332	95@47	CP_QAM256	19.70	-3.6	16.10	30	PASS
n78(3550-3700)	30	70	644332	1@1	CP_QAM256	19.77	-3.6	16.17	30	PASS
n78(3550-3700)	30	70	644332	1@187	CP_QAM256	19.76	-3.6	16.16	30	PASS

2 Frequency stability for NR FR1

NT:

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Voltage (Vdc)	Result(Hz)	Result (ppm)	Limit (ppm)	Verdict
n77(3450-3550)	30	70	633334	90@45	DFT_BPSK	3.87	-22.57	-0.01	Within authorized band for 5G NR n78	PASS
n77(3450-3550)	30	70	633334	90@45	DFT_BPSK	3.45	-26.50	-0.01		PASS
n77(3450-3550)	30	70	633334	90@45	DFT_BPSK	4.45	-21.78	0.00		PASS
n77(3450-3550)	30	70	633334	90@45	DFT_QPSK	3.87	-25.41	-0.01		PASS
n77(3450-3550)	30	70	633334	90@45	DFT_QPSK	3.45	-21.38	-0.01		PASS
n77(3450-3550)	30	70	633334	90@45	DFT_QPSK	4.45	-26.55	-0.01		PASS

Note: Only the worst case shown in the report.

NV:

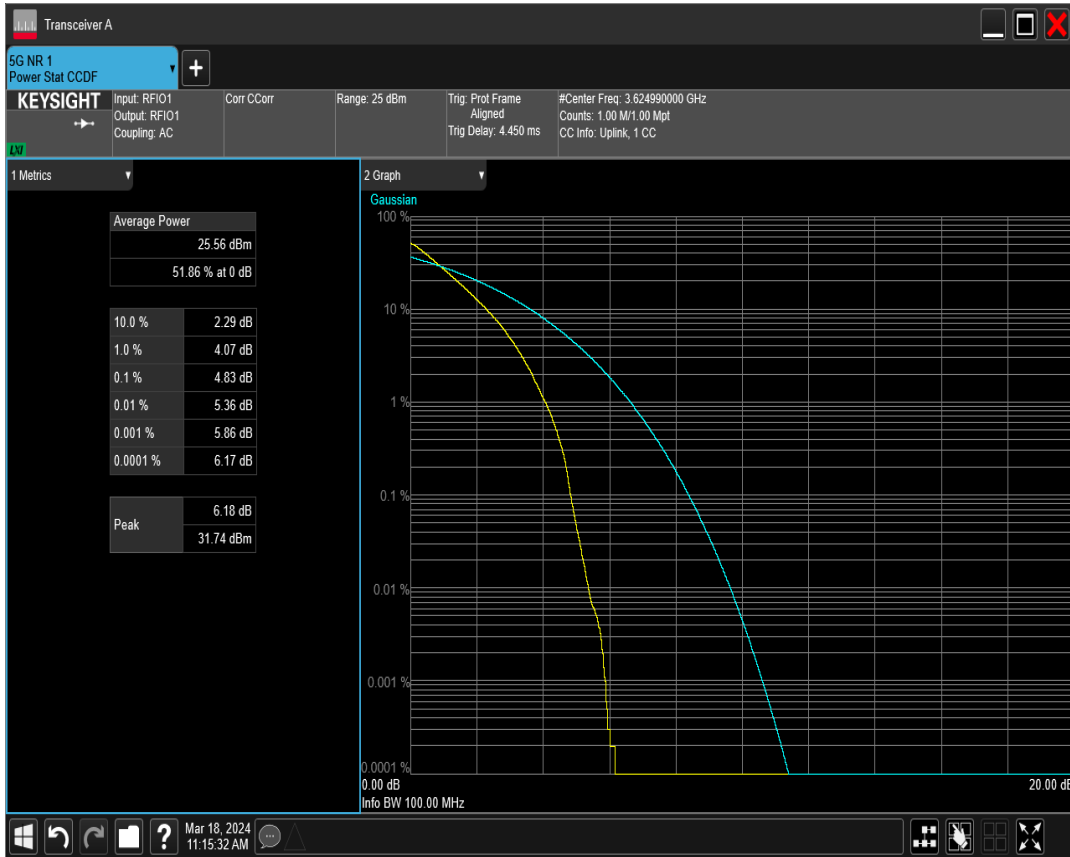
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Voltage (Vdc)	Result(Hz)	Result (ppm)	Limit (ppm)	Verdict
n77(3450-3550)	30	70	633334	90@45	DFT_BPSK	-30	-21.01	-0.01	Within authorized band for 5G NR n78	PASS
n77(3450-3550)	30	70	633334	90@45	DFT_BPSK	-20	-26.02	-0.01		PASS
n77(3450-3550)	30	70	633334	90@45	DFT_BPSK	-10	-23.72	0.00		PASS
n77(3450-3550)	30	70	633334	90@45	DFT_BPSK	0	-27.94	-0.01		PASS
n77(3450-3550)	30	70	633334	90@45	DFT_BPSK	10	-29.12	-0.01		PASS
n77(3450-3550)	30	70	633334	90@45	DFT_BPSK	20	-23.98	-0.01		PASS
n77(3450-3550)	30	70	633334	90@45	DFT_BPSK	30	-26.23	-0.01		PASS
n77(3450-3550)	30	70	633334	90@45	DFT_BPSK	40	-23.16	-0.01		PASS
n77(3450-3550)	30	70	633334	90@45	DFT_BPSK	50	-29.57	0.00		PASS
n77(3450-3550)	30	70	633334	90@45	DFT_QPSK	-30	-24.12	-0.01		PASS
n77(3450-3550)	30	70	633334	90@45	DFT_QPSK	-20	-20.95	-0.01		PASS
n77(3450-3550)	30	70	633334	90@45	DFT_QPSK	-10	-26.65	-0.01		PASS
n77(3450-3550)	30	70	633334	90@45	DFT_QPSK	0	-24.96	-0.01		PASS
n77(3450-3550)	30	70	633334	90@45	DFT_QPSK	10	-23.44	-0.01		PASS
n77(3450-3550)	30	70	633334	90@45	DFT_QPSK	20	-26.79	0.00		PASS
n77(3450-3550)	30	70	633334	90@45	DFT_QPSK	30	-20.46	-0.01		PASS
n77(3450-3550)	30	70	633334	90@45	DFT_QPSK	40	-22.02	-0.01	PASS	
n77(3450-3550)	30	70	633334	90@45	DFT_QPSK	50	-23.39	-0.01	PASS	

Note: Only the worst case shown in the report.

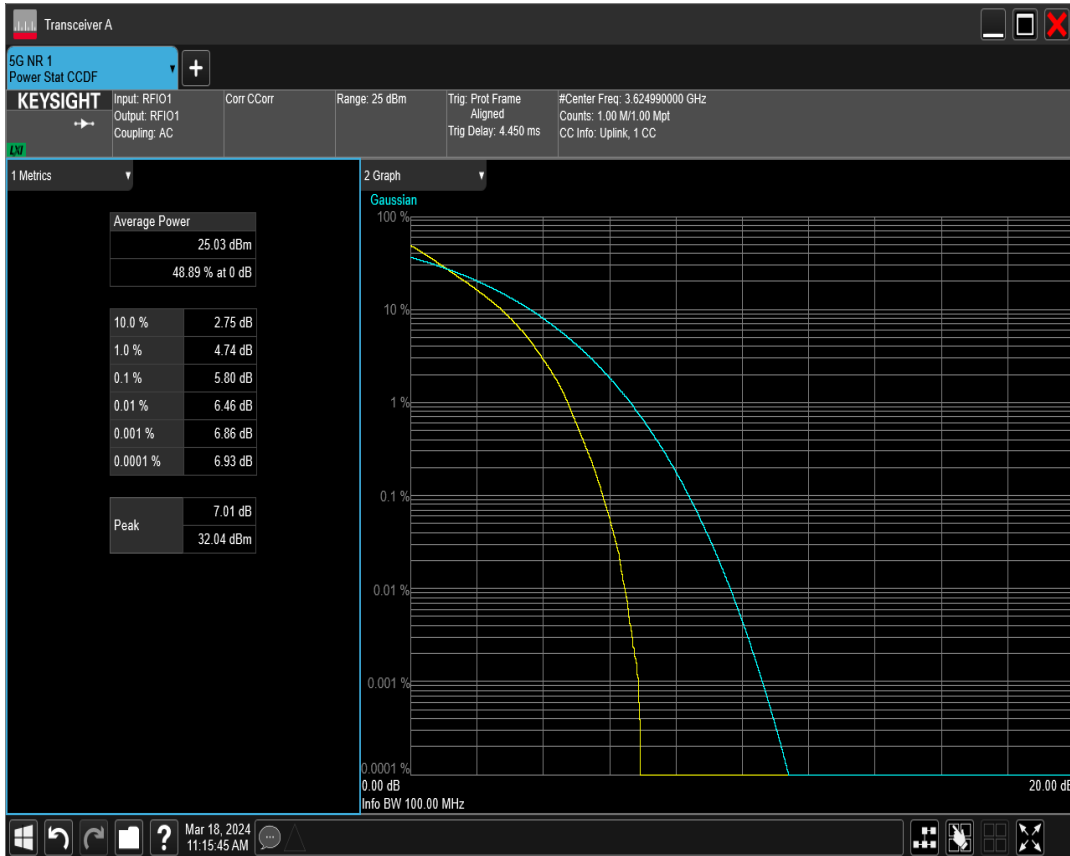
3 Peak-to-Average Ratio for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Result (dB)	high Limit (dB)	Verdict
n78(3550-3700)	30	70	641666	180@0	DFT_BPSK	4.83	13	PASS
n78(3550-3700)	30	70	641666	180@0	DFT_QPSK	5.80	13	PASS
n78(3550-3700)	30	70	641666	180@0	DFT_QAM16	6.58	13	PASS
n78(3550-3700)	30	70	641666	180@0	DFT_QAM64	6.83	13	PASS
n78(3550-3700)	30	70	641666	180@0	DFT_QAM256	7.11	13	PASS

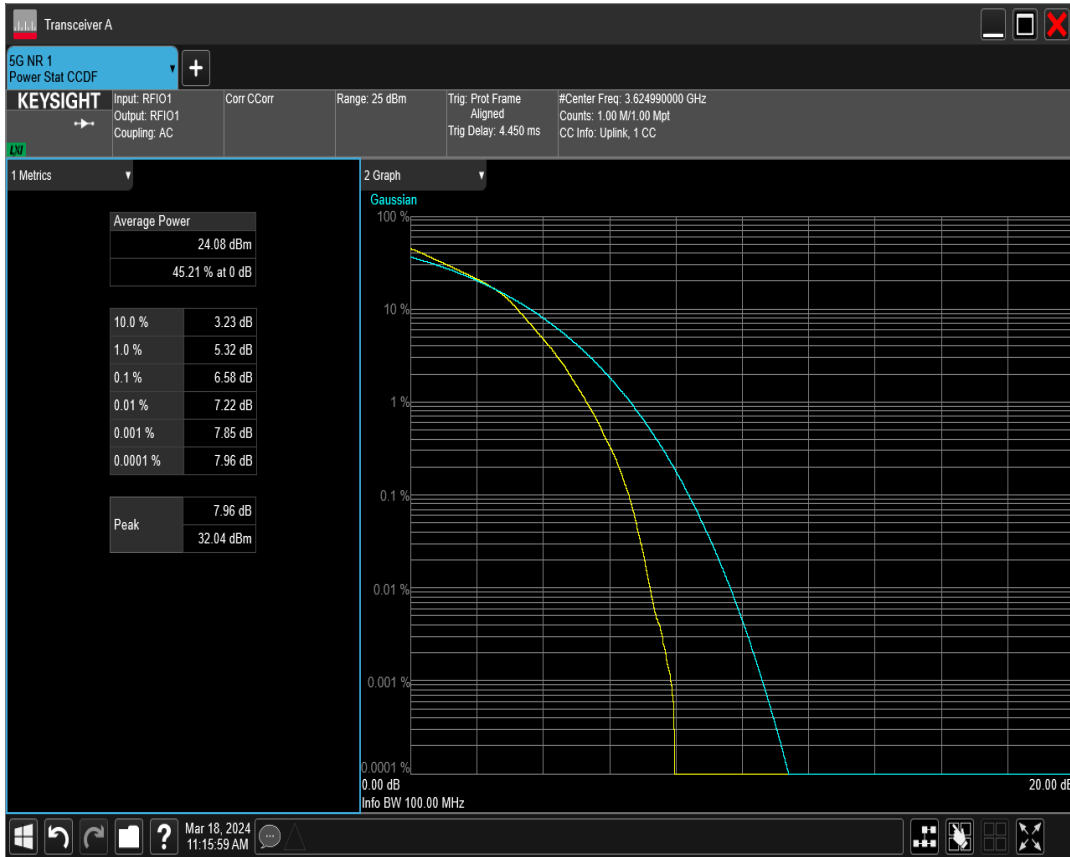
n78(3550-3700) SCS=30kHz DFT_BPSK BW=70MHz Channel=641666 RB=180@0



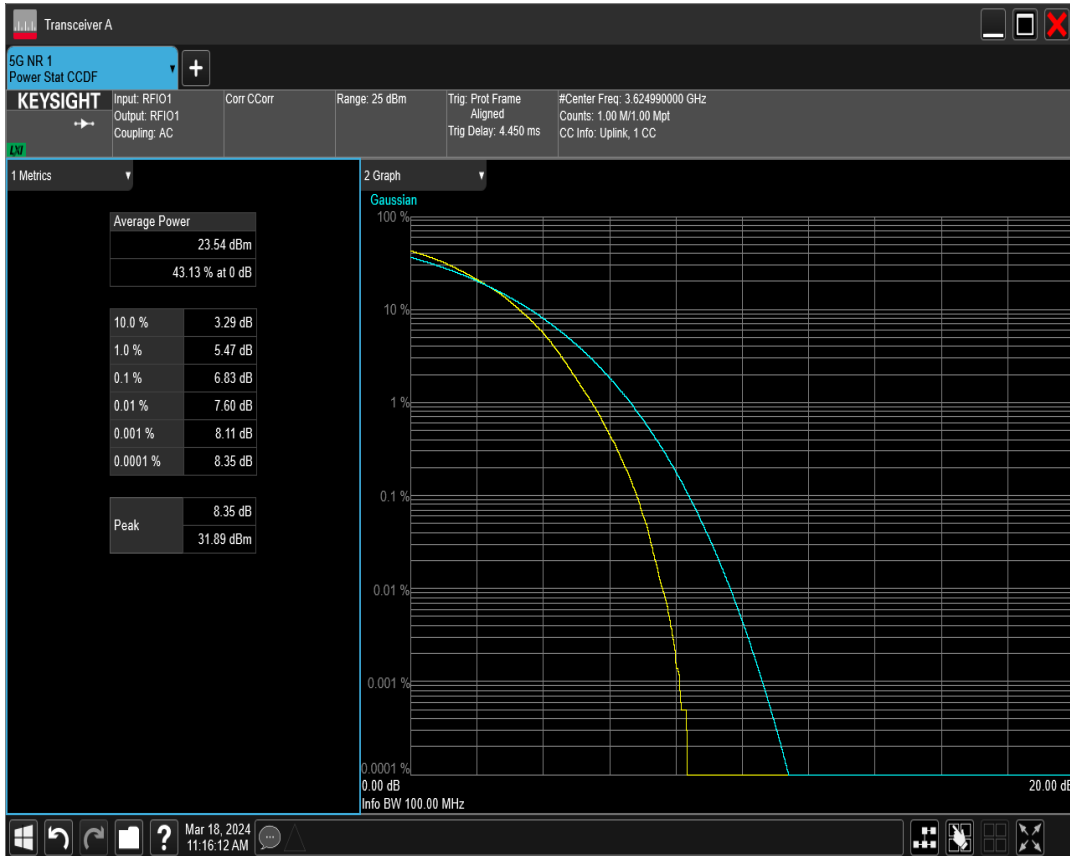
n78(3550-3700) SCS=30kHz DFT_QPSK BW=70MHz Channel=641666 RB=180@0



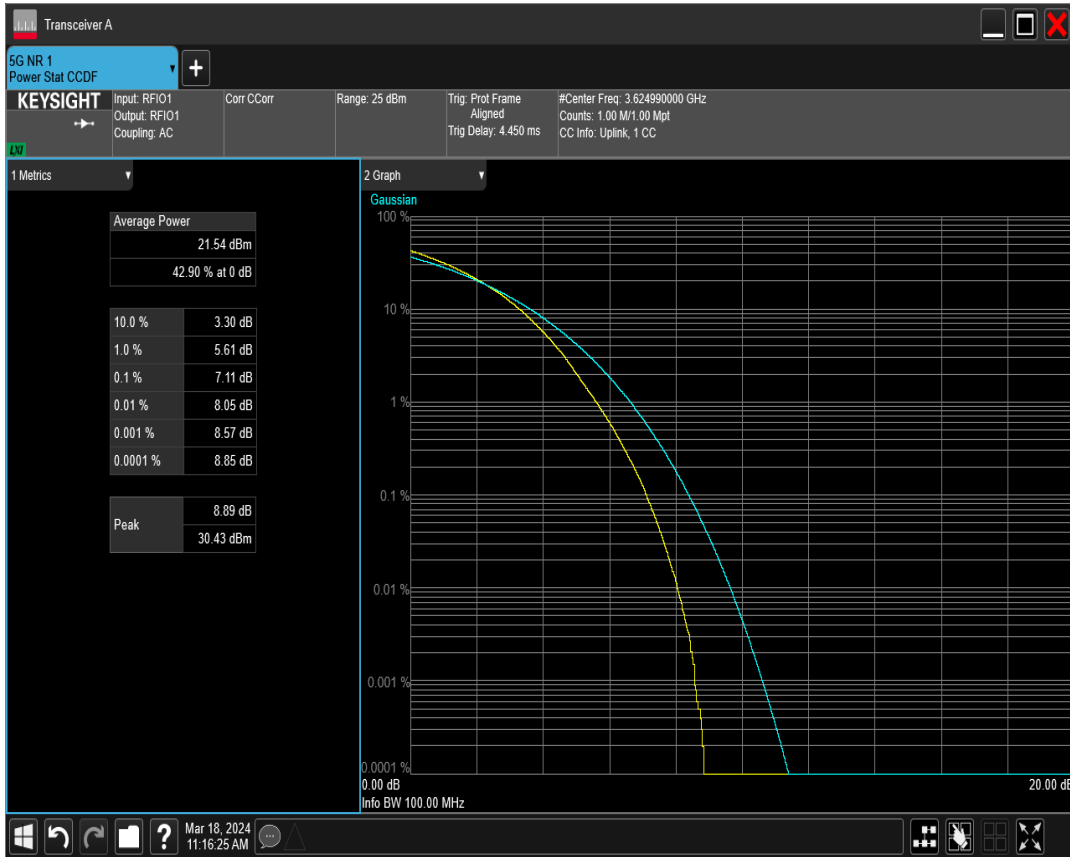
n78(3550-3700) SCS=30kHz DFT_QAM16 BW=70MHz Channel=641666 RB=180@0



n78(3550-3700) SCS=30kHz DFT_QAM64 BW=70MHz Channel=641666 RB=180@0



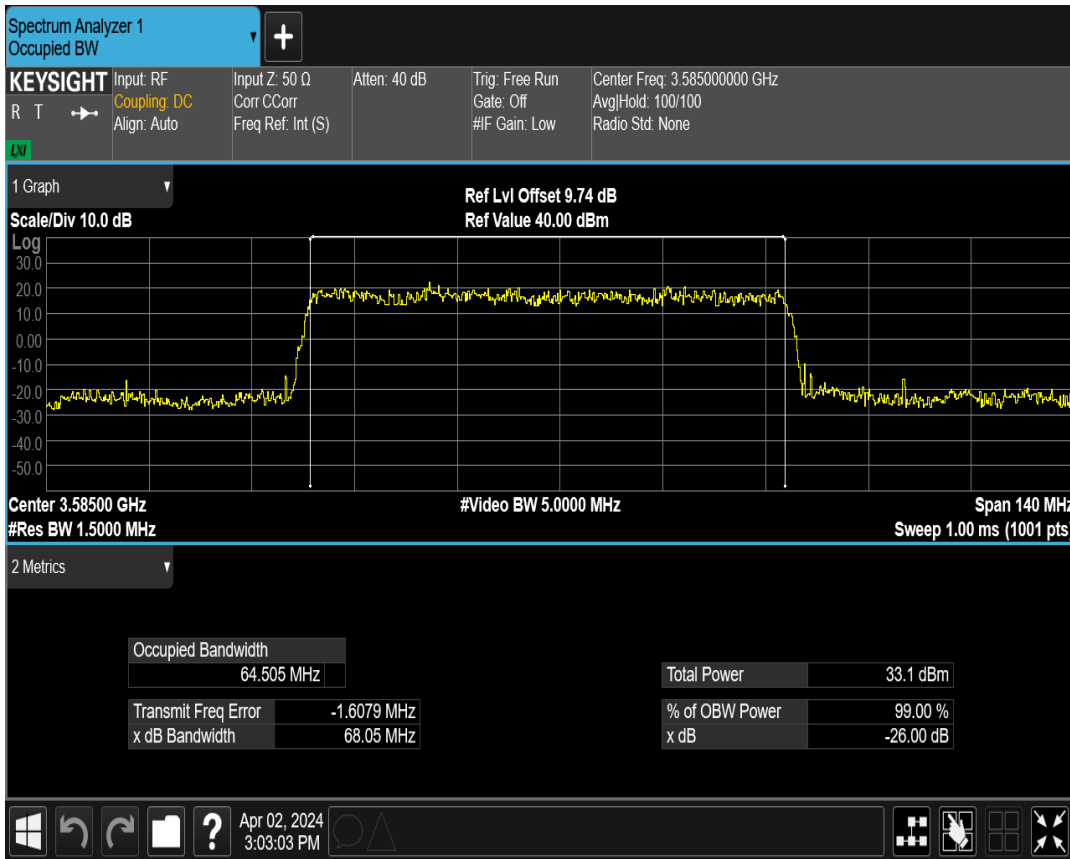
n78(3550-3700) SCS=30kHz DFT_QAM256 BW=70MHz Channel=641666 RB=180@0



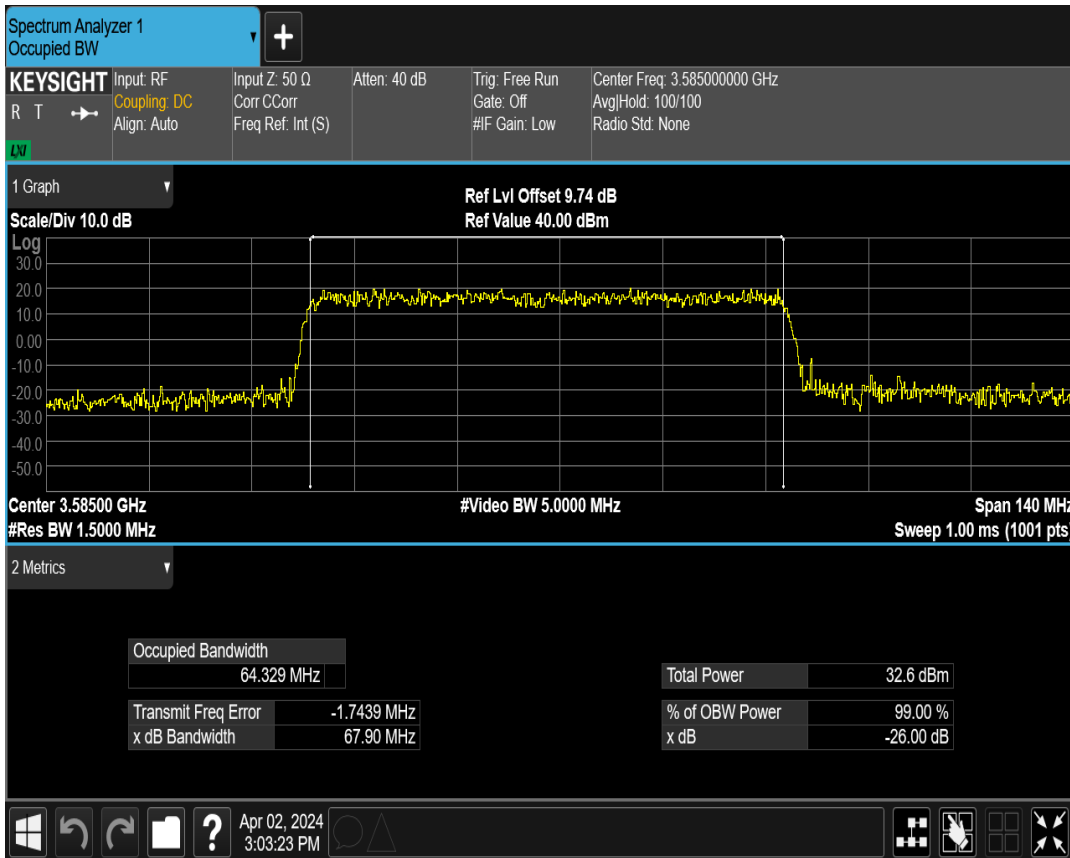
4 Occupied bandwidth for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
n78(3550-3700)	30	70	639000	180@0	DFT_BPSK	64.505	68.054	PASS
n78(3550-3700)	30	70	639000	180@0	DFT_QPSK	64.329	67.902	PASS
n78(3550-3700)	30	70	639000	180@0	DFT_QAM16	64.419	69.022	PASS
n78(3550-3700)	30	70	639000	180@0	DFT_QAM64	64.561	67.747	PASS
n78(3550-3700)	30	70	639000	180@0	DFT_QAM256	64.367	67.973	PASS
n78(3550-3700)	30	70	639000	189@0	CP_QPSK	67.563	71.375	PASS
n78(3550-3700)	30	70	641666	180@0	DFT_BPSK	64.172	68.489	PASS
n78(3550-3700)	30	70	641666	180@0	DFT_QPSK	64.573	67.898	PASS
n78(3550-3700)	30	70	641666	180@0	DFT_QAM16	64.401	67.744	PASS
n78(3550-3700)	30	70	641666	180@0	DFT_QAM64	64.605	67.954	PASS
n78(3550-3700)	30	70	641666	180@0	DFT_QAM256	64.495	70.294	PASS
n78(3550-3700)	30	70	641666	189@0	CP_QPSK	67.806	70.827	PASS
n78(3550-3700)	30	70	644332	180@0	DFT_BPSK	64.658	67.907	PASS
n78(3550-3700)	30	70	644332	180@0	DFT_QPSK	64.636	67.878	PASS
n78(3550-3700)	30	70	644332	180@0	DFT_QAM16	64.284	68.144	PASS
n78(3550-3700)	30	70	644332	180@0	DFT_QAM64	64.348	67.599	PASS
n78(3550-3700)	30	70	644332	180@0	DFT_QAM256	64.628	67.875	PASS
n78(3550-3700)	30	70	644332	189@0	CP_QPSK	67.758	71.118	PASS

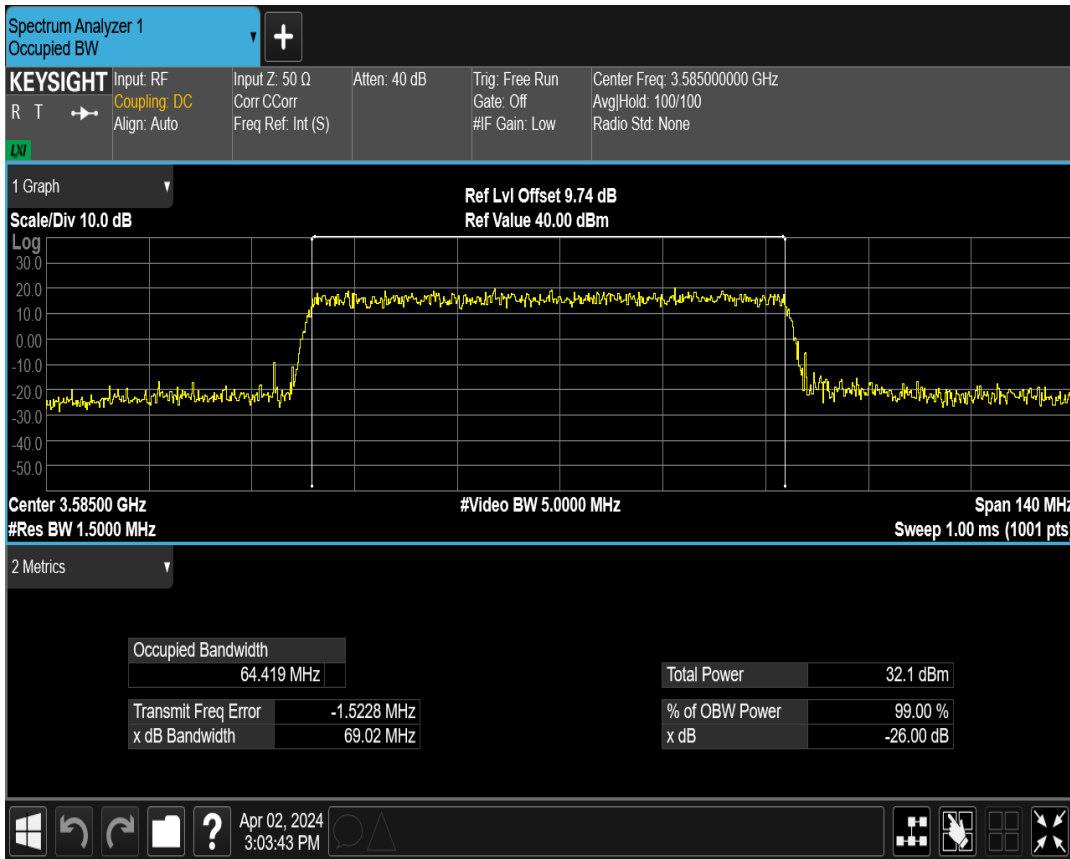
n78(3550-3700) SCS=30kHz DFT_BPSK BW=70MHz Channel=639000 RB=180@0



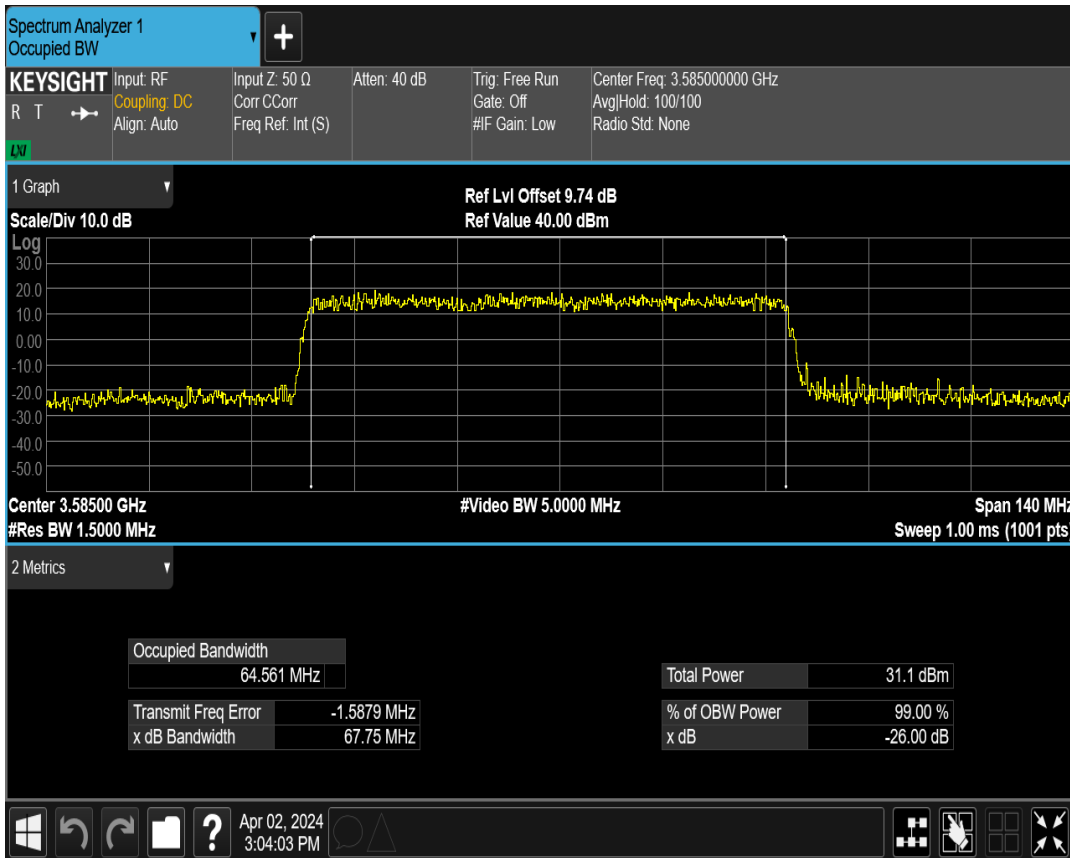
n78(3550-3700) SCS=30kHz DFT_QPSK BW=70MHz Channel=639000 RB=180@0



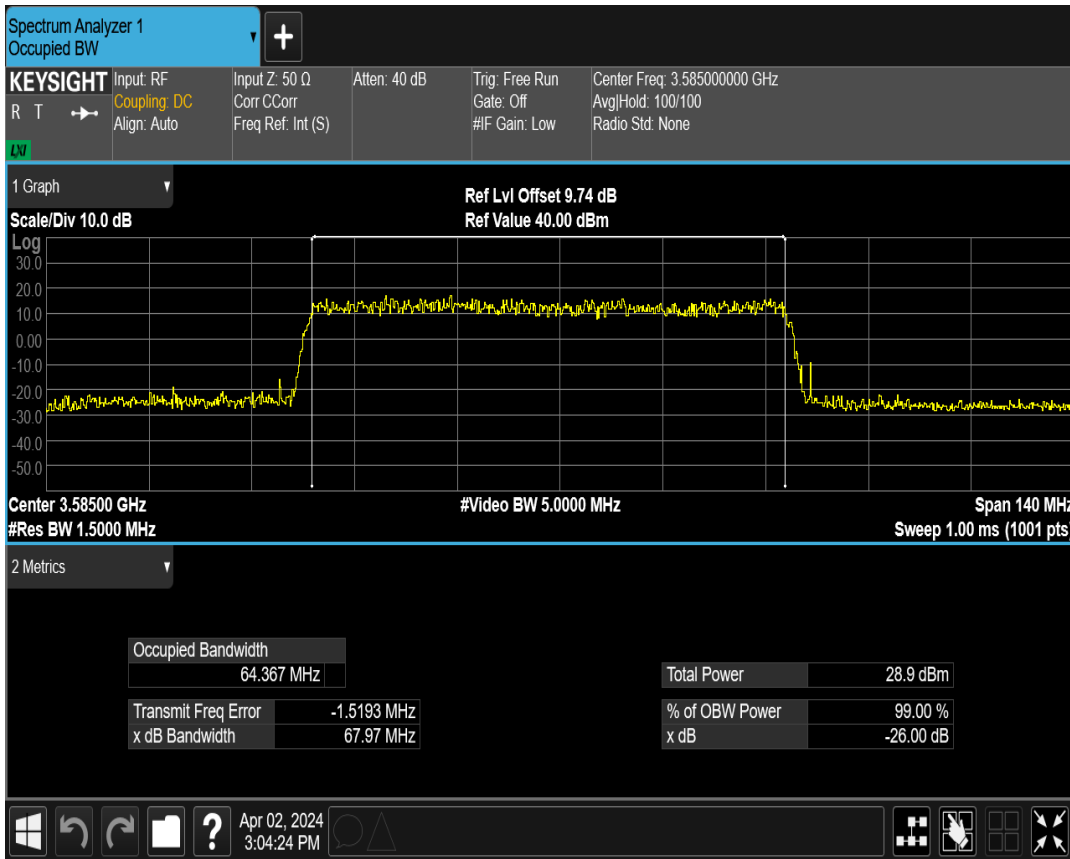
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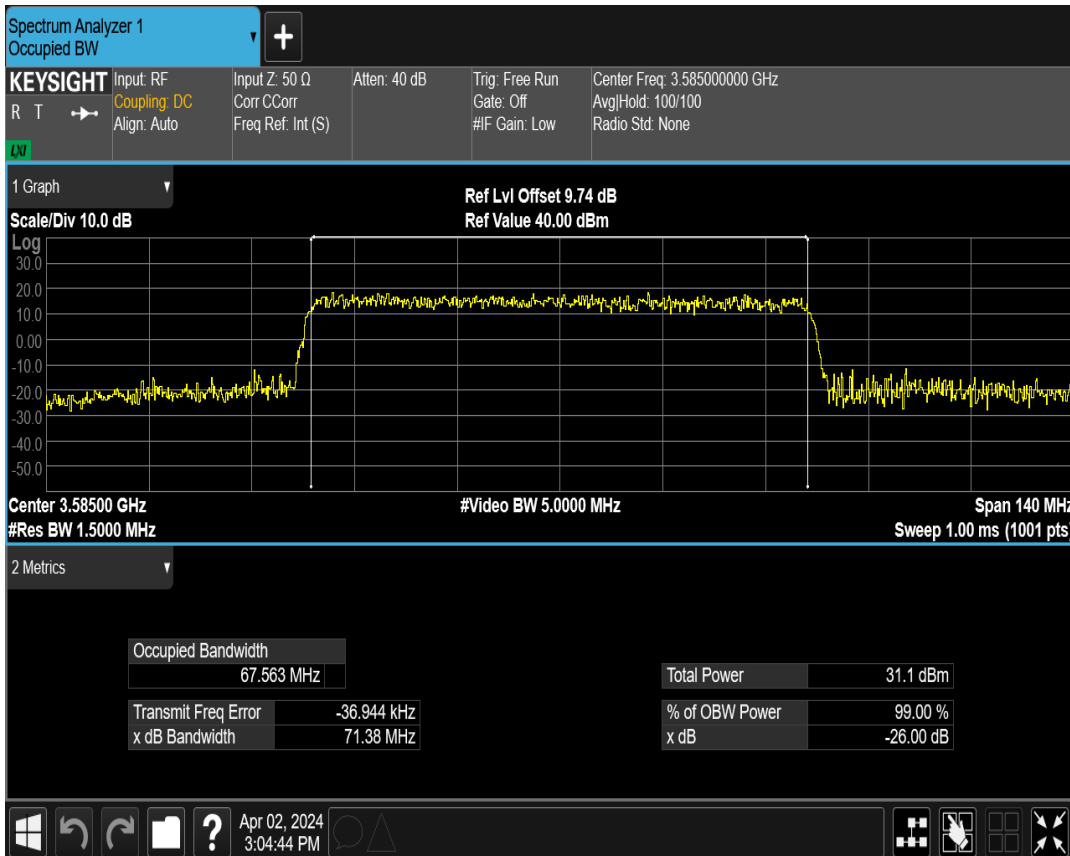
n78(3550-3700) SCS=30kHz DFT_QAM64 BW=70MHz Channel=639000 RB=180@0



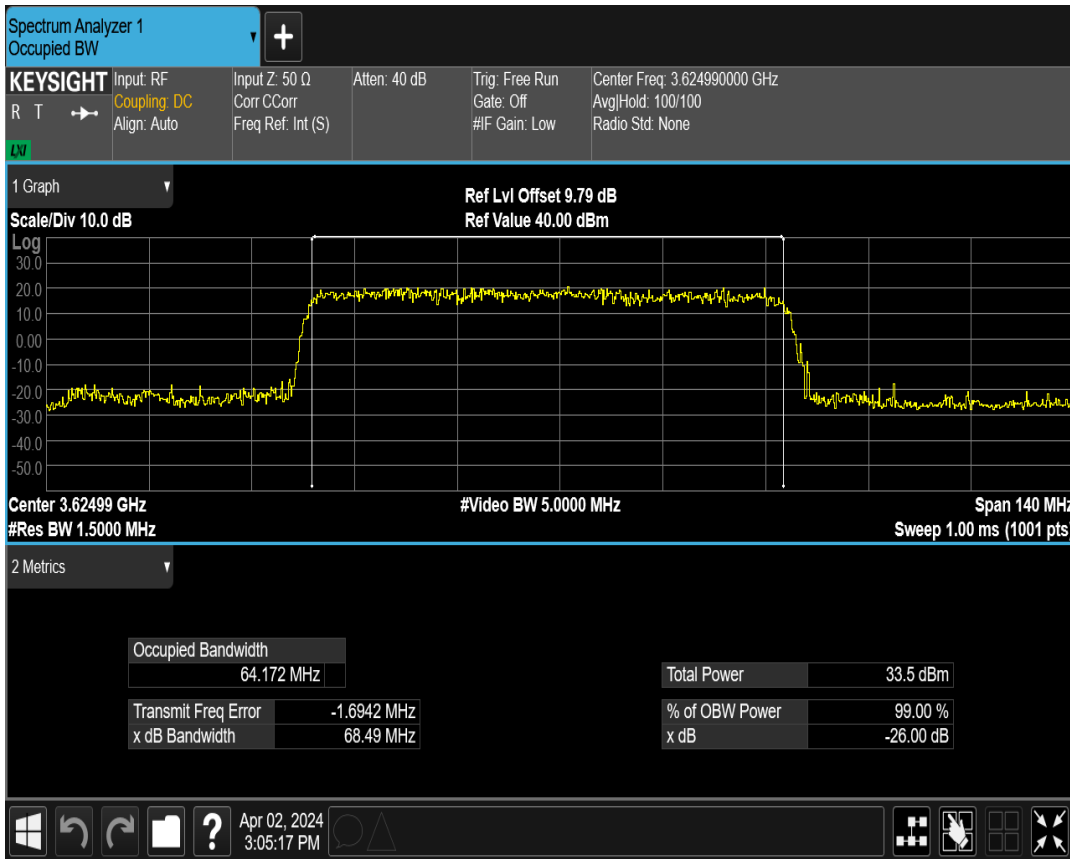
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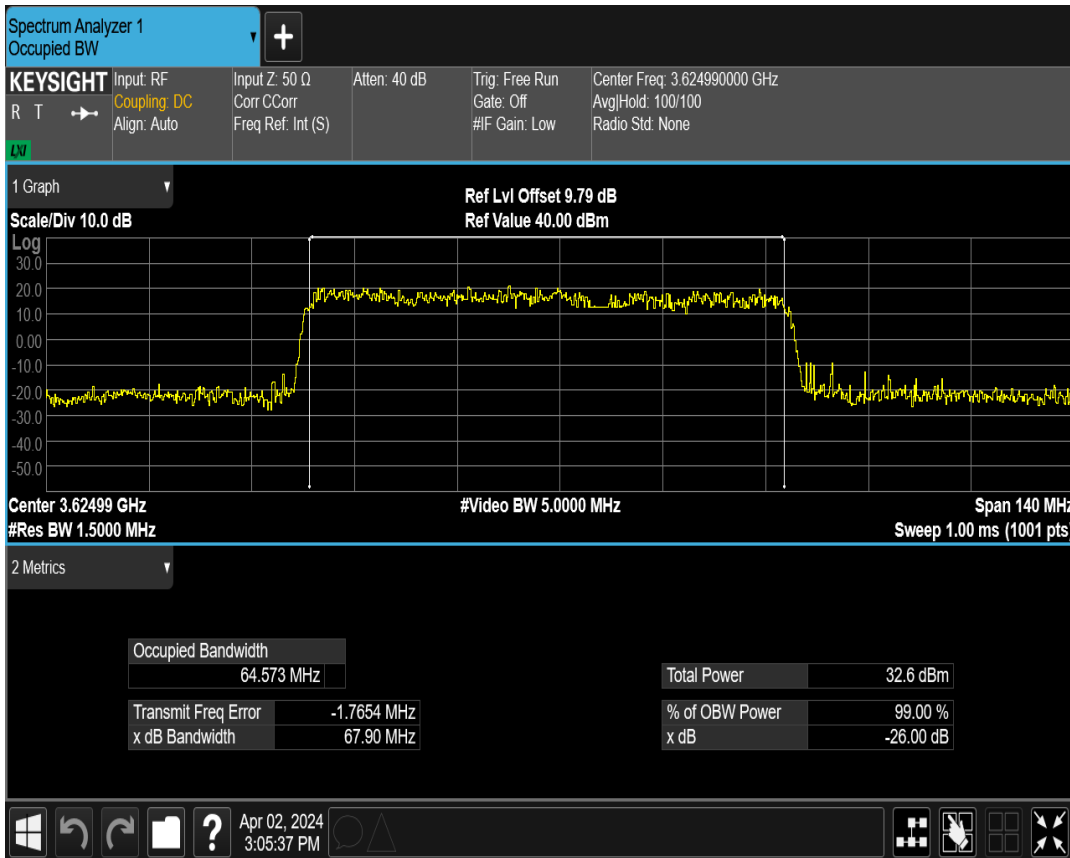
n78(3550-3700) SCS=30kHz CP_QPSK BW=70MHz Channel=639000 RB=189@0



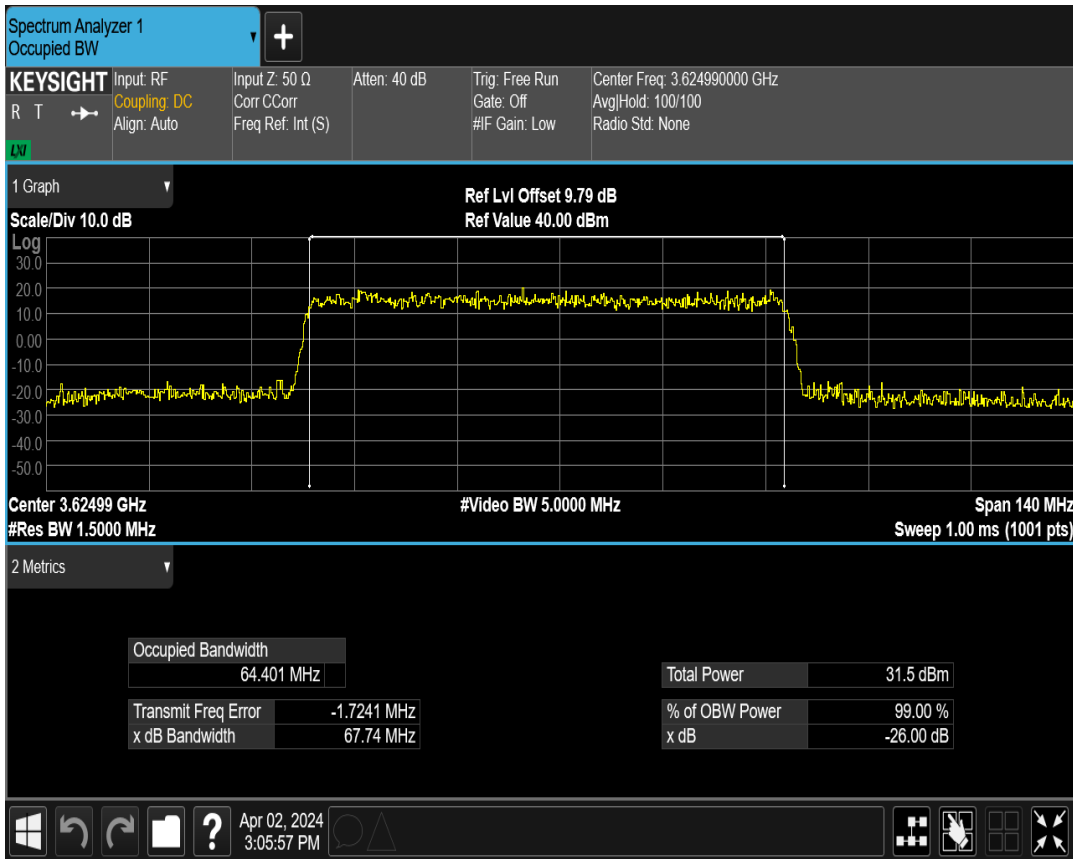
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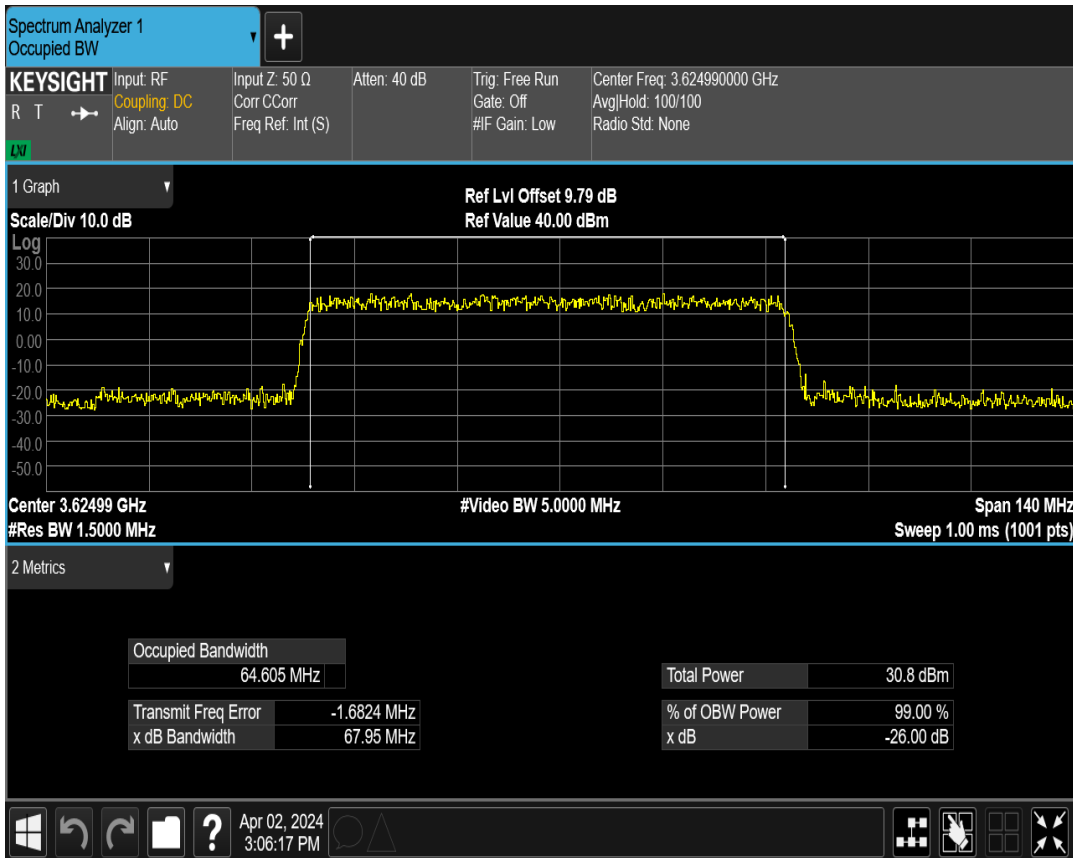
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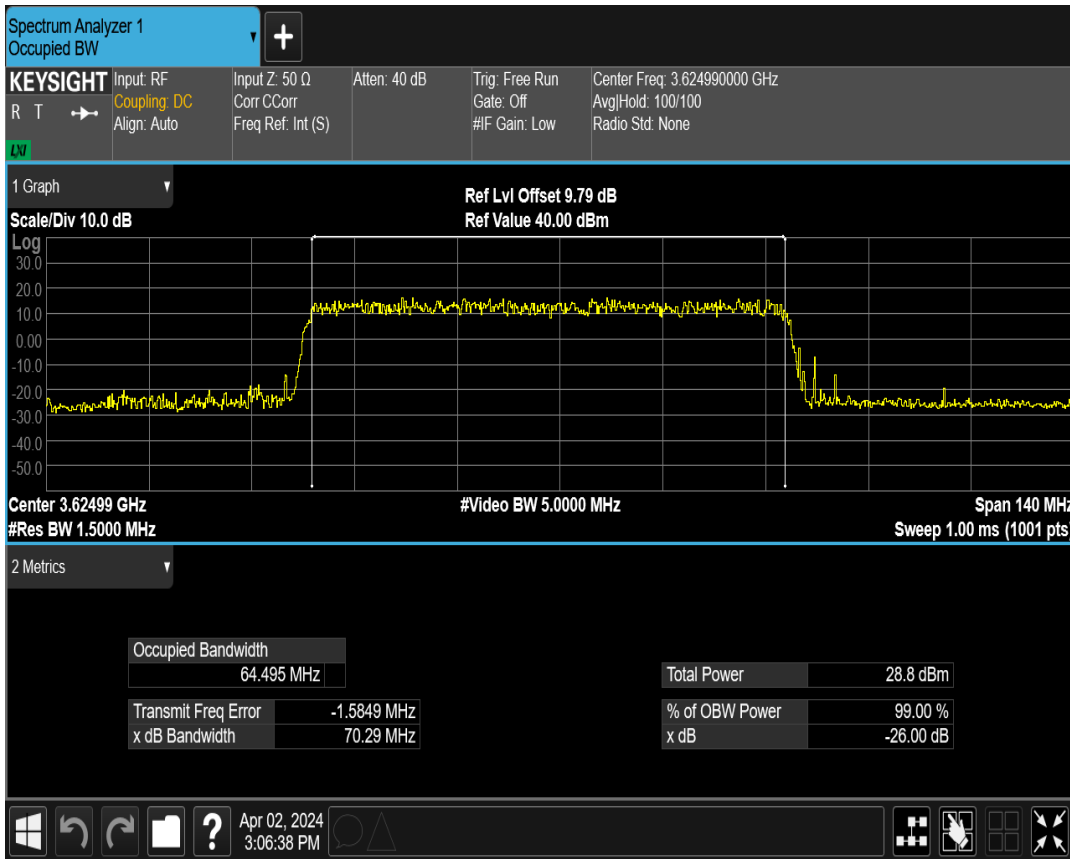
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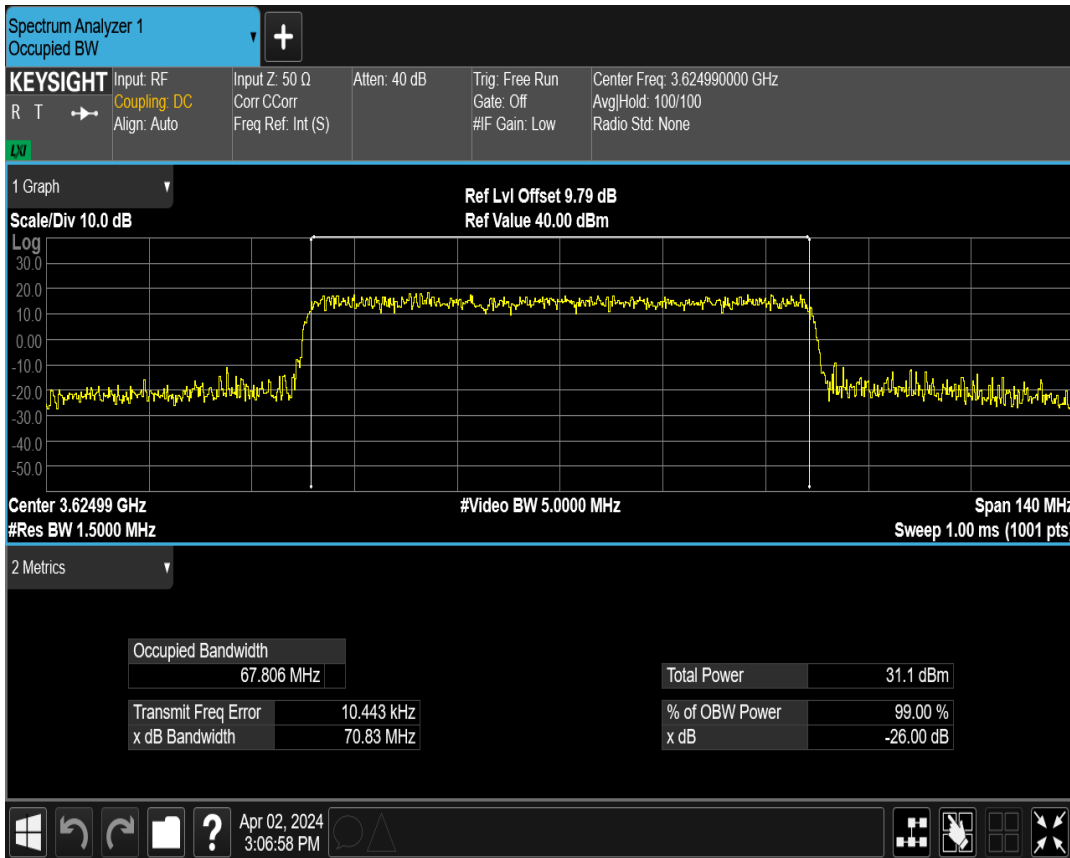
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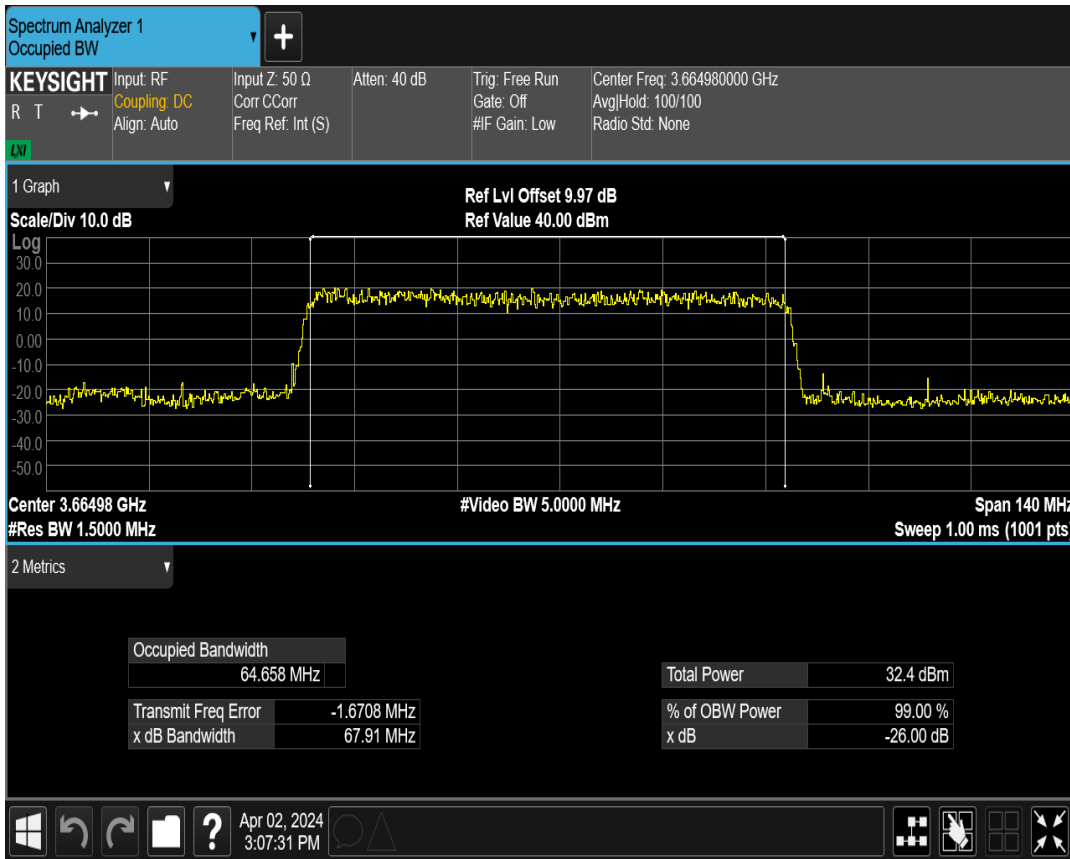
n78(3550-3700) SCS=30kHz DFT_QAM256 BW=70MHz Channel=641666 RB=180@0



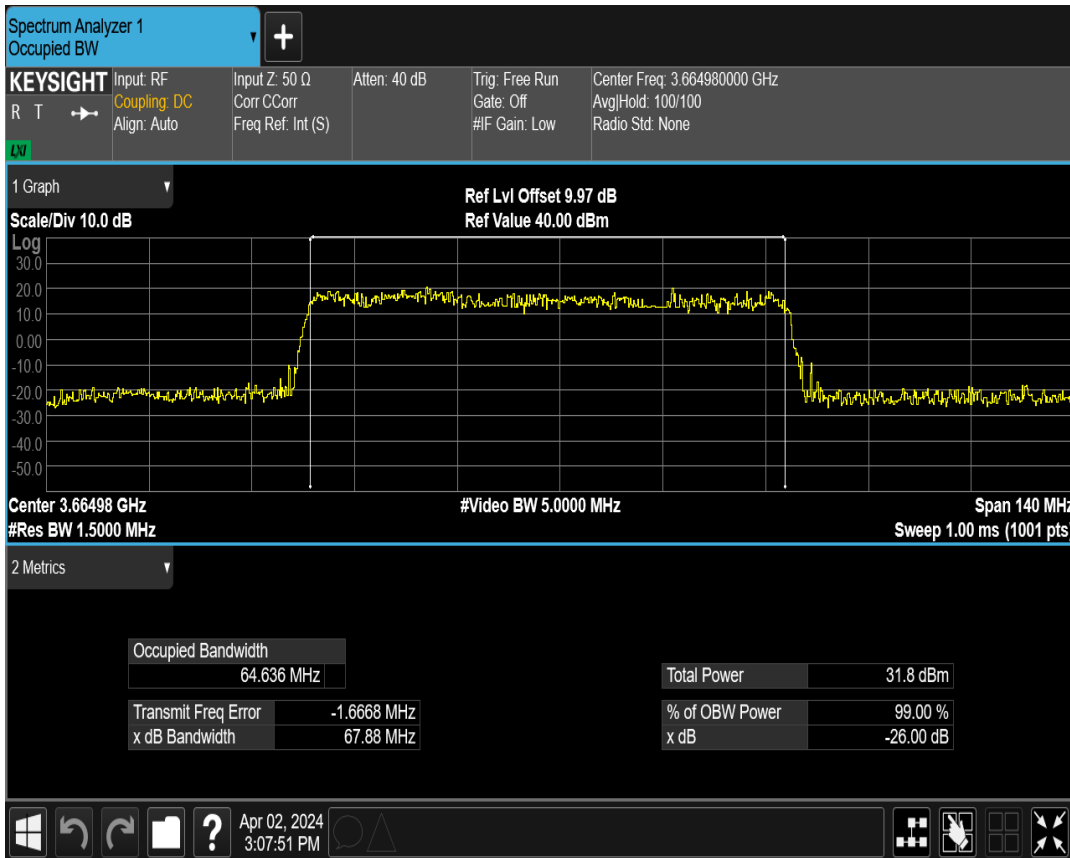
n78(3550-3700) SCS=30kHz CP_QPSK BW=70MHz Channel=641666 RB=189@0



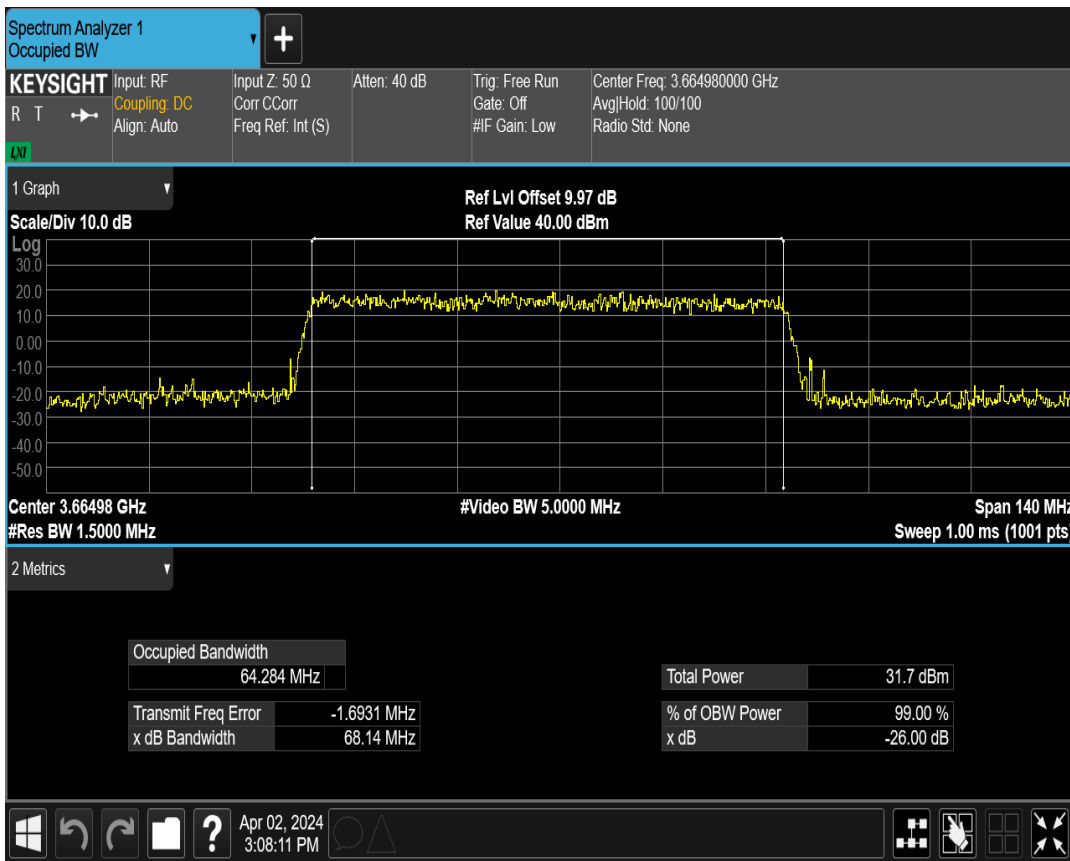
n78(3550-3700) SCS=30kHz DFT_BPSK BW=70MHz Channel=644332 RB=180@0



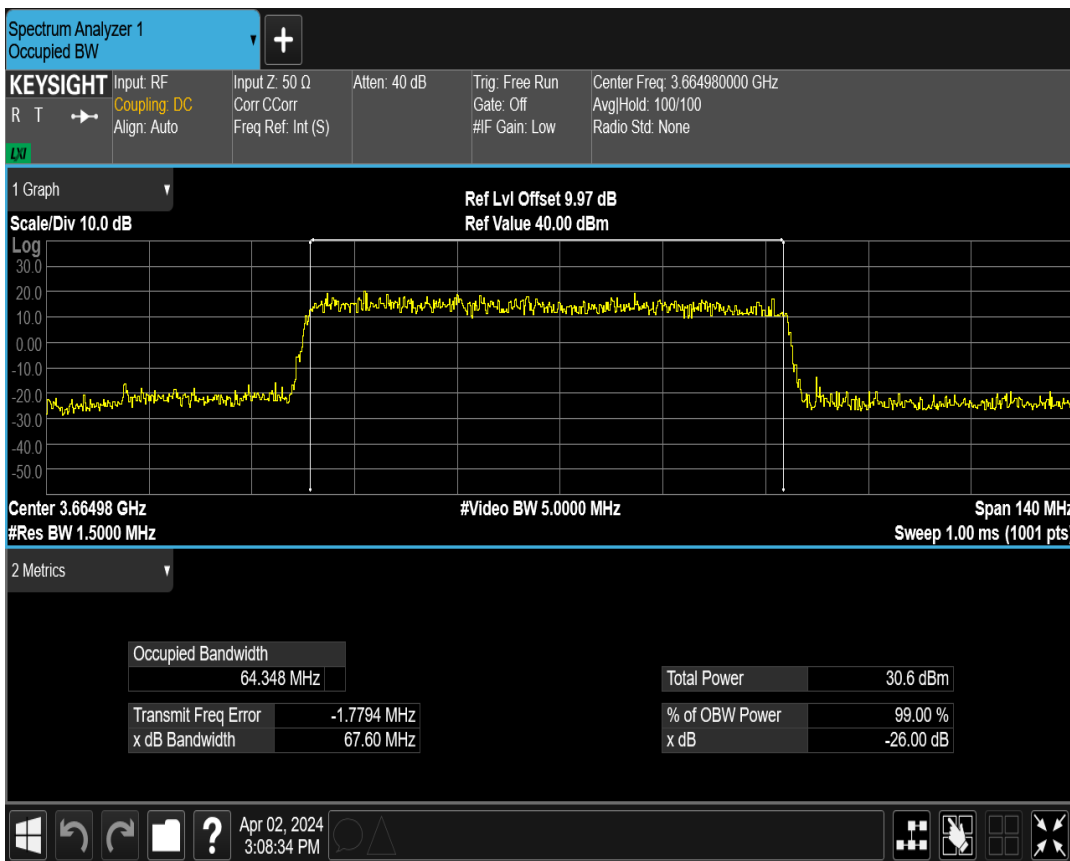
n78(3550-3700) SCS=30kHz DFT_QPSK BW=70MHz Channel=644332 RB=180@0



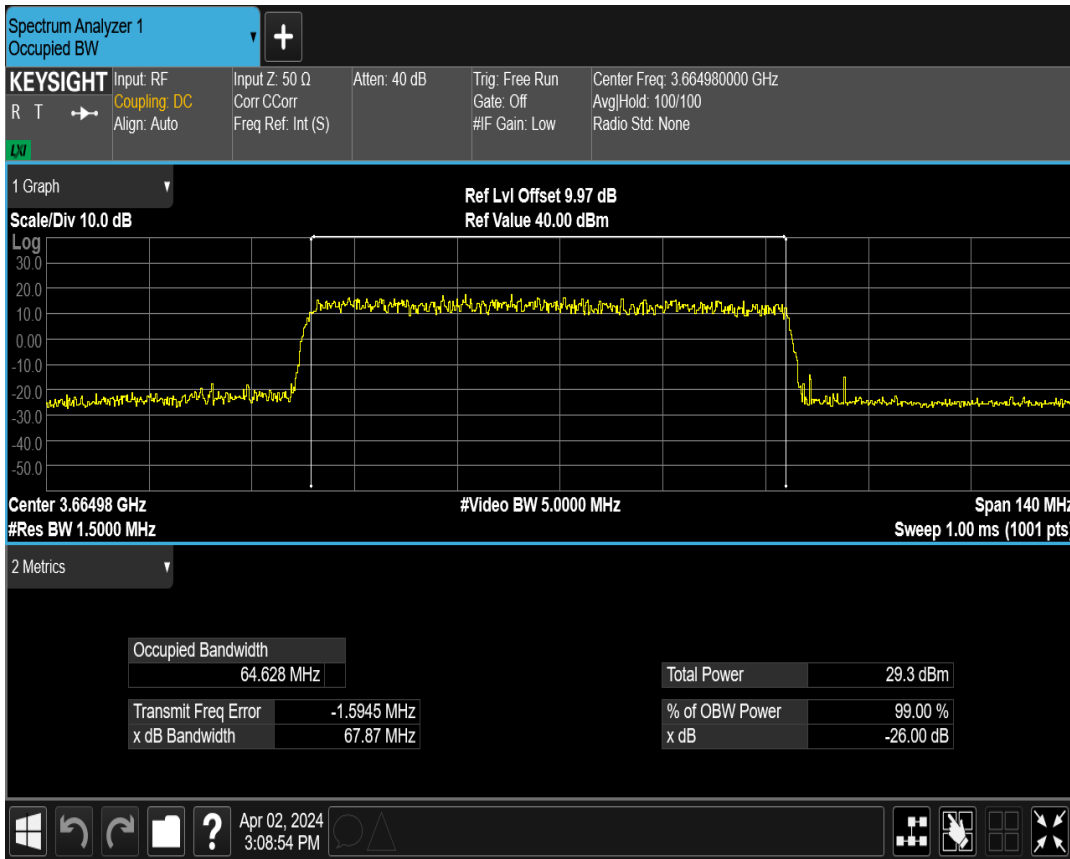
n78(3550-3700) SCS=30kHz DFT_QAM16 BW=70MHz Channel=644332 RB=180@0



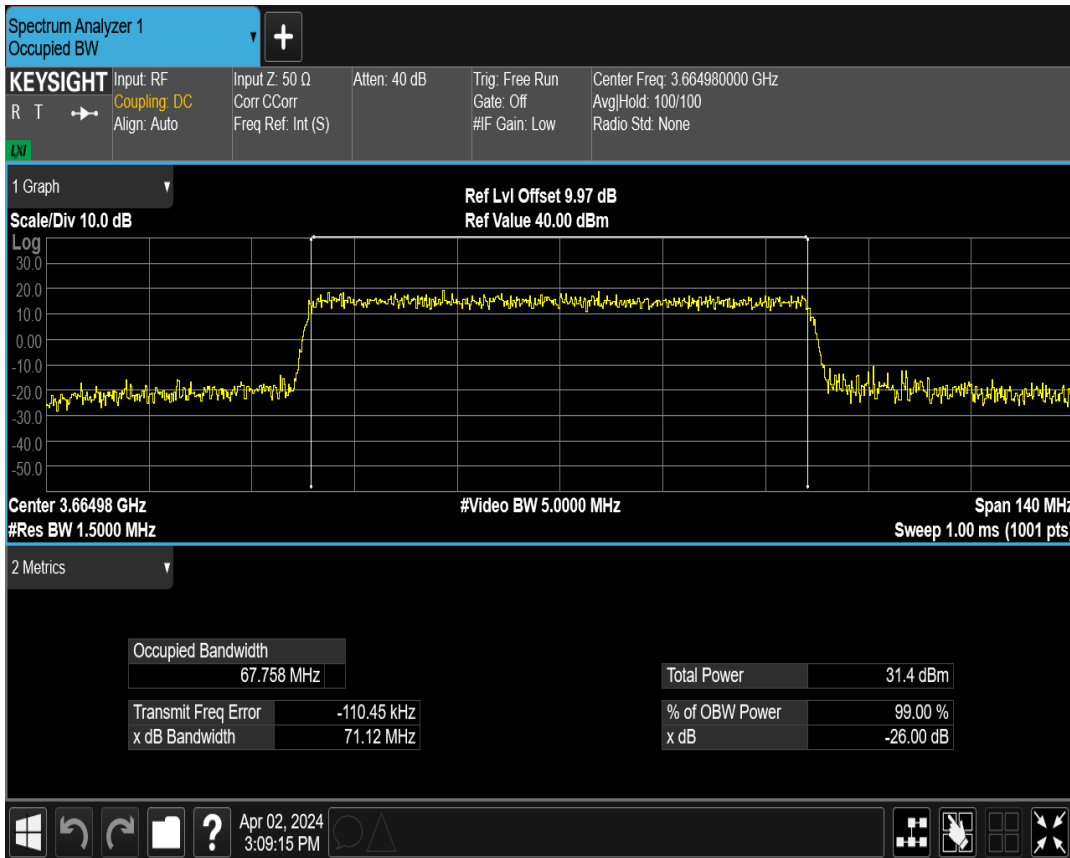
n78(3550-3700) SCS=30kHz DFT_QAM64 BW=70MHz Channel=644332 RB=180@0



n78(3550-3700) SCS=30kHz DFT_QAM256 BW=70MHz Channel=644332 RB=180@0



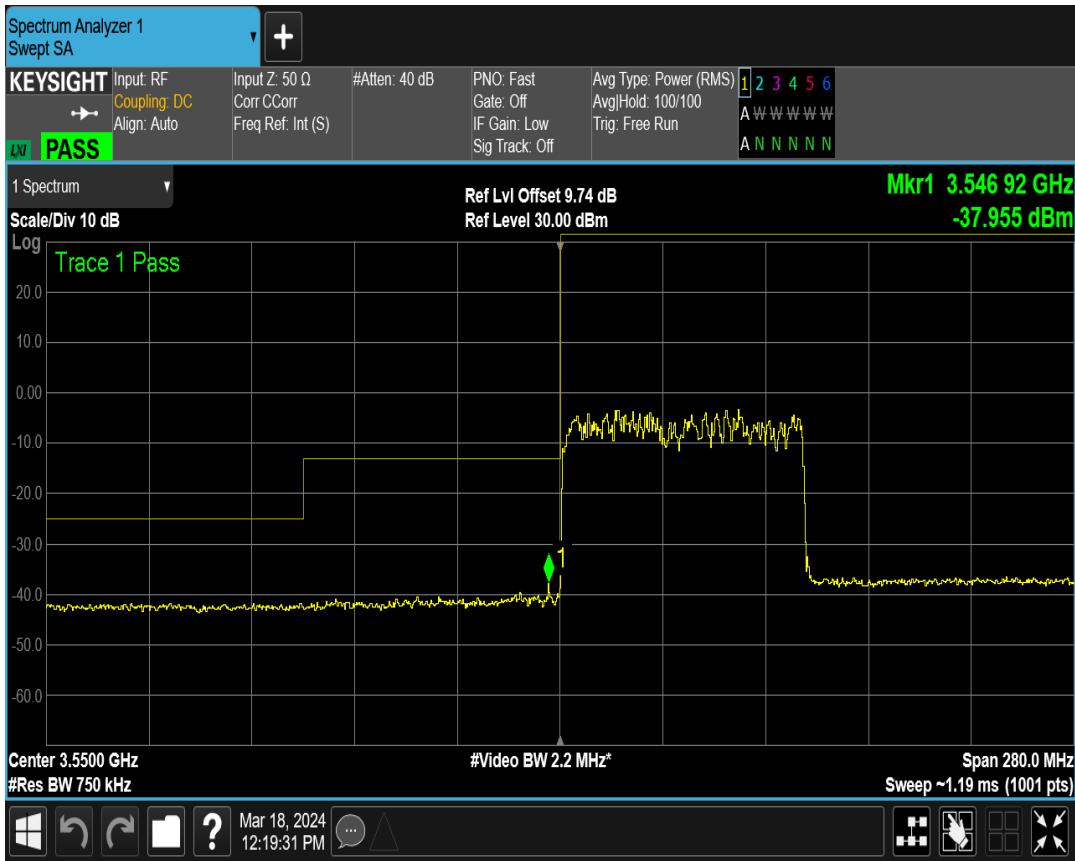
n78(3550-3700) SCS=30kHz CP_QPSK BW=70MHz Channel=644332 RB=189@0



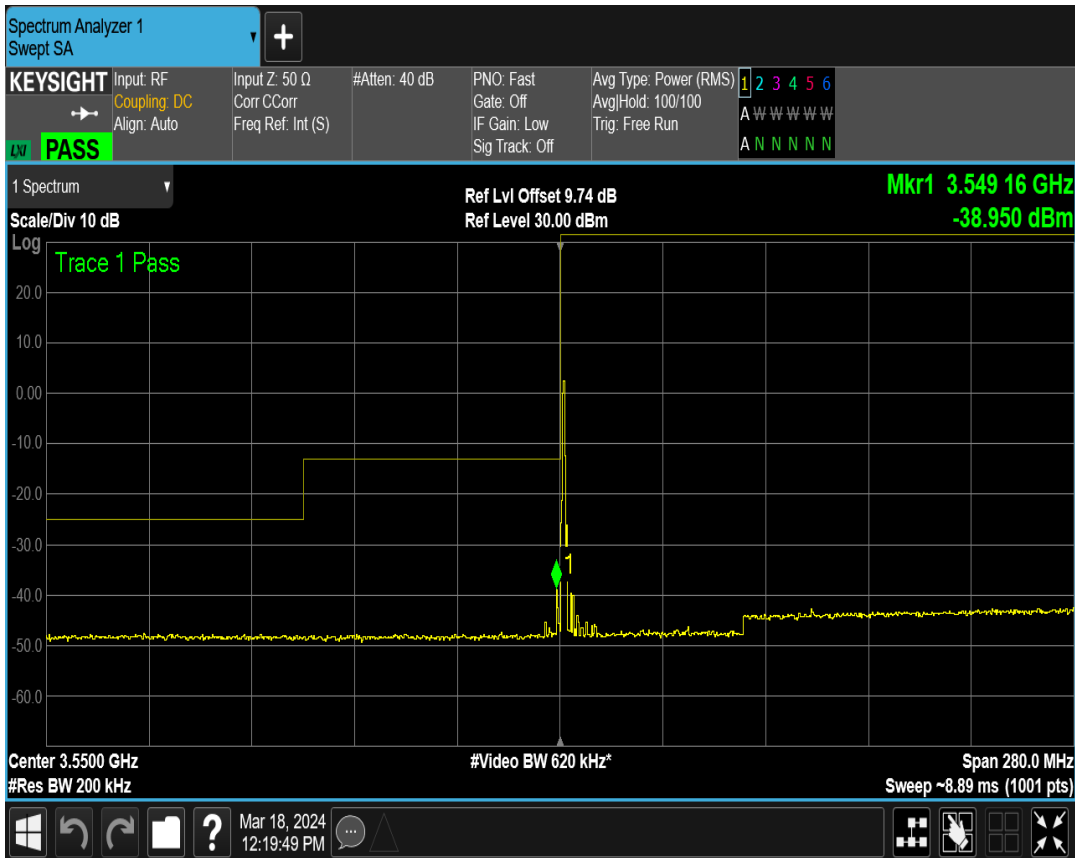
5 Band edge for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n78(3550-3700)	30	70	639000	180@0	DFT_QPSK	3546.92	-37.95	-13	PASS
n78(3550-3700)	30	70	639000	1@0	DFT_QPSK	3549.16	-38.95	-13	PASS
n78(3550-3700)	30	70	644332	180@0	DFT_QPSK	3700.00	-34.64	-13	PASS
n78(3550-3700)	30	70	644332	1@188	DFT_QPSK	3700.56	-36.70	-13	PASS

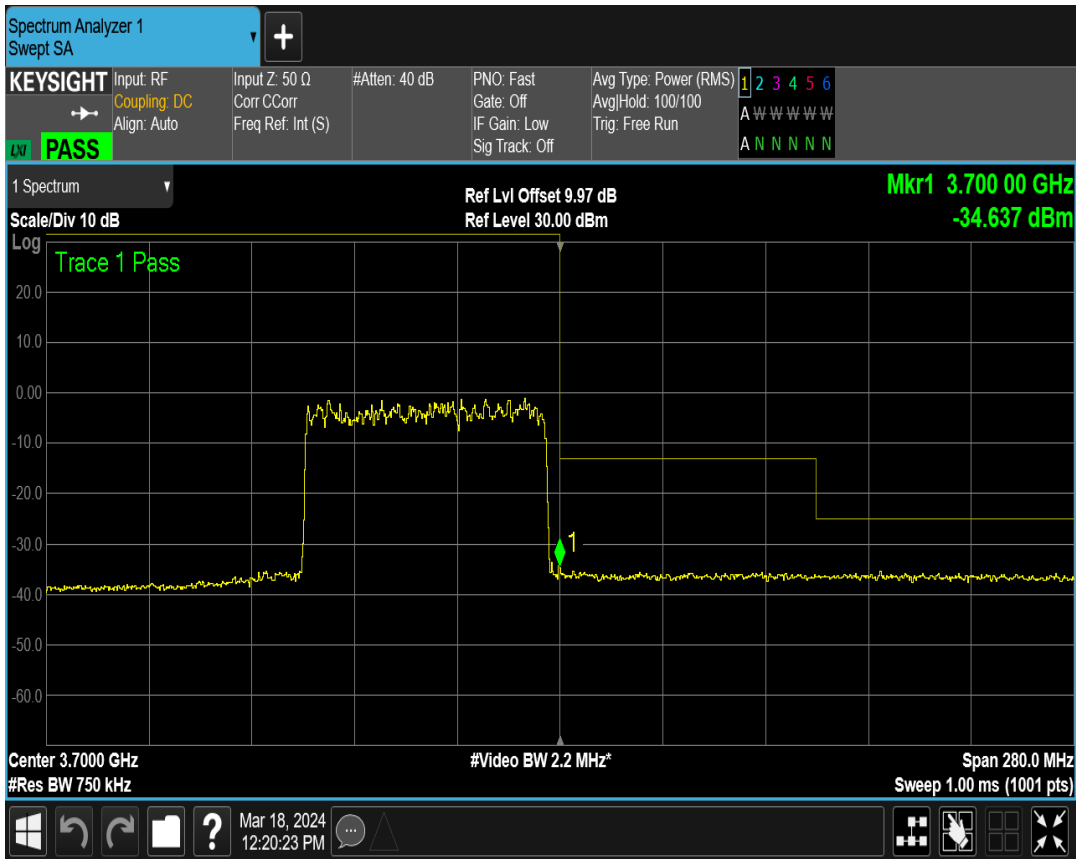
n78(3550-3700) SCS=30kHz DFT_QPSK BW=70MHz Channel=639000 RB=180@0



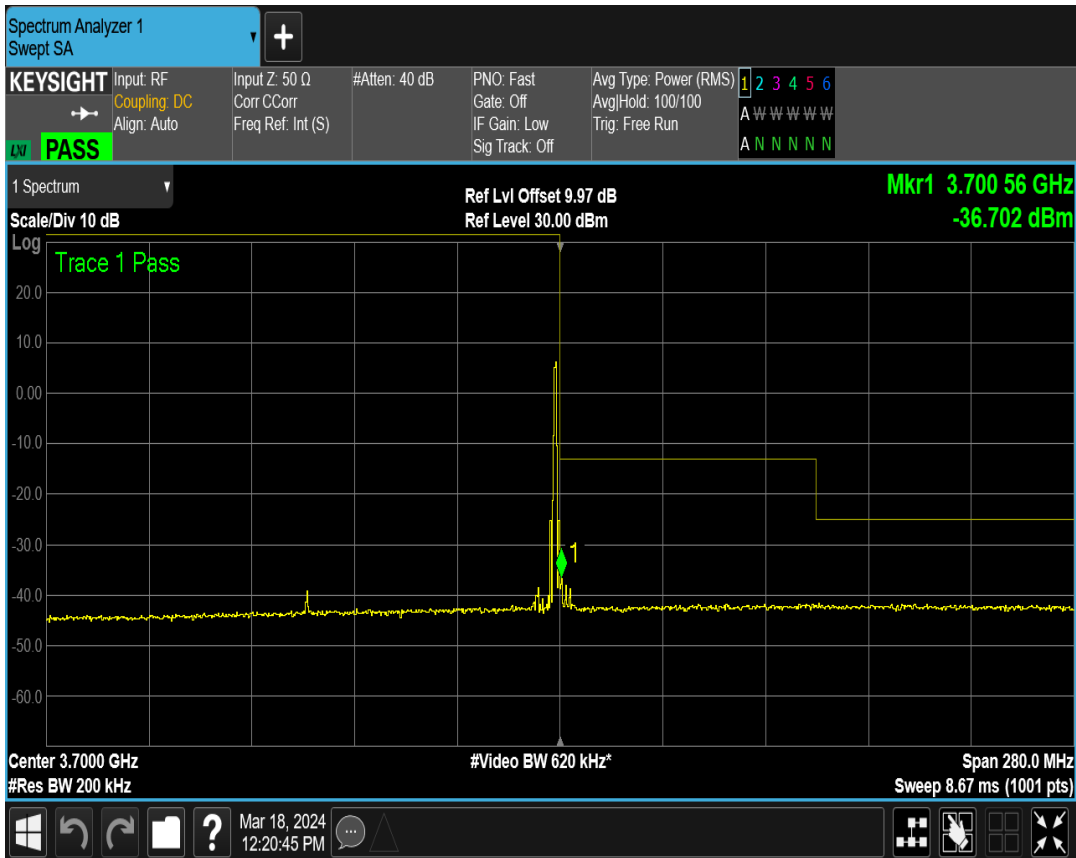
n78(3550-3700) SCS=30kHz DFT_QPSK BW=70MHz Channel=639000 RB=1@0



n78(3550-3700) SCS=30kHz DFT_QPSK BW=70MHz Channel=644332 RB=180@0



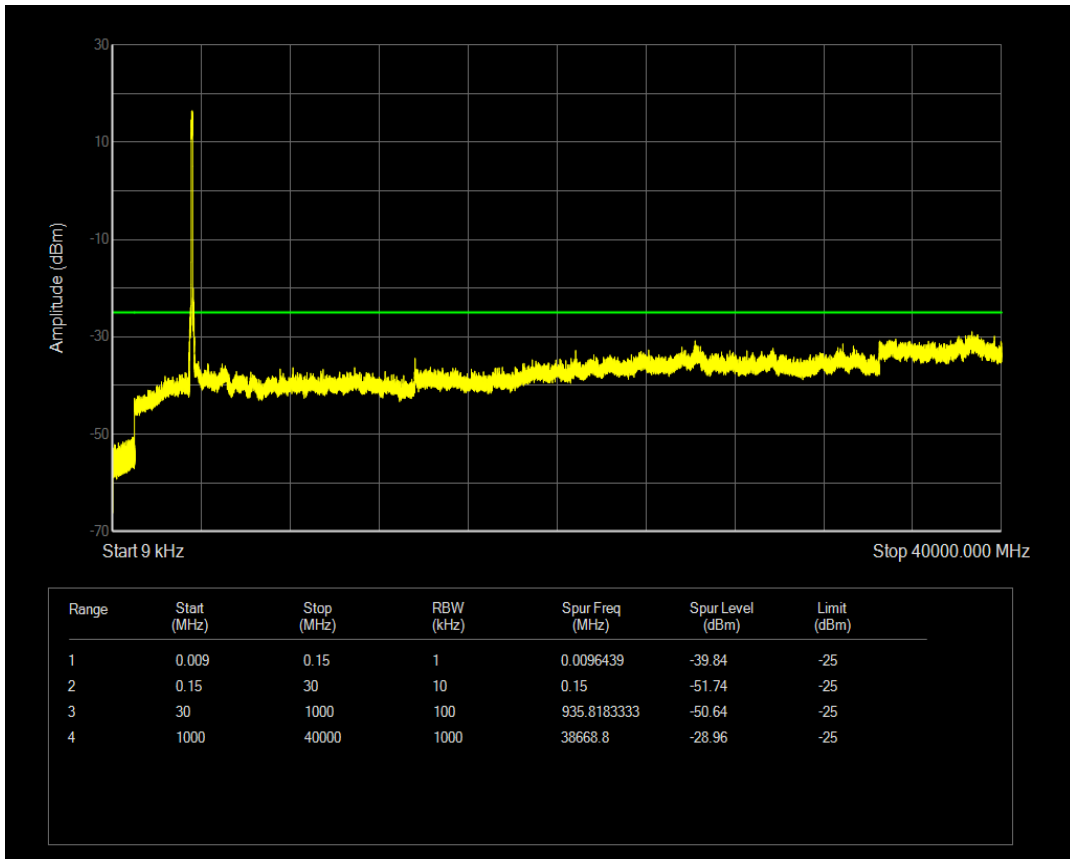
n78(3550-3700) SCS=30kHz DFT_QPSK BW=70MHz Channel=644332 RB=1@188



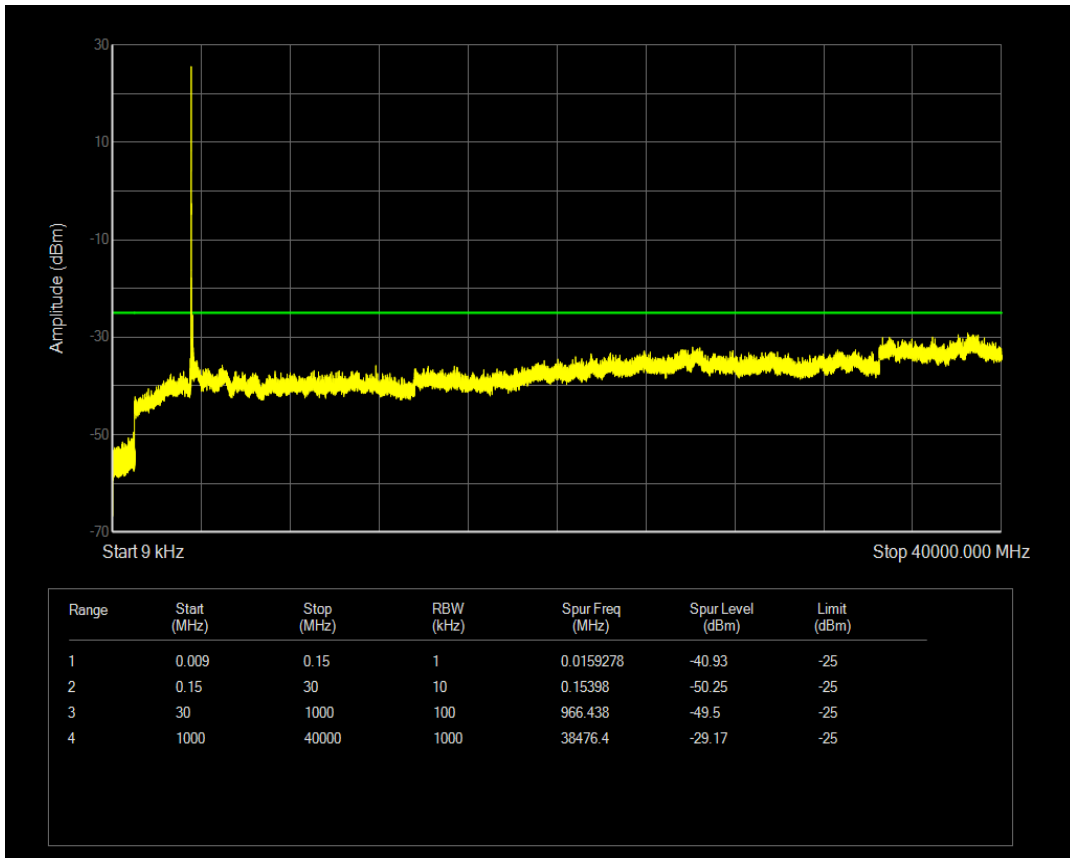
6 Out-of-band emissions for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n78(3550-3700)	30	70	639000	180@0	DFT_QPSK	38668.80	-28.96	-25	PASS
n78(3550-3700)	30	70	639000	1@0	DFT_QPSK	38476.40	-29.17	-25	PASS
n78(3550-3700)	30	70	639000	1@188	DFT_QPSK	38703.90	-28.96	-25	PASS
n78(3550-3700)	30	70	641666	180@0	DFT_QPSK	37981.10	-28.79	-25	PASS
n78(3550-3700)	30	70	641666	1@0	DFT_QPSK	35125.00	-29.27	-25	PASS
n78(3550-3700)	30	70	641666	1@188	DFT_QPSK	35161.40	-28.62	-25	PASS
n78(3550-3700)	30	70	644332	180@0	DFT_QPSK	38546.60	-28.92	-25	PASS
n78(3550-3700)	30	70	644332	1@0	DFT_QPSK	38754.60	-28.57	-25	PASS
n78(3550-3700)	30	70	644332	1@188	DFT_QPSK	38094.20	-28.77	-25	PASS

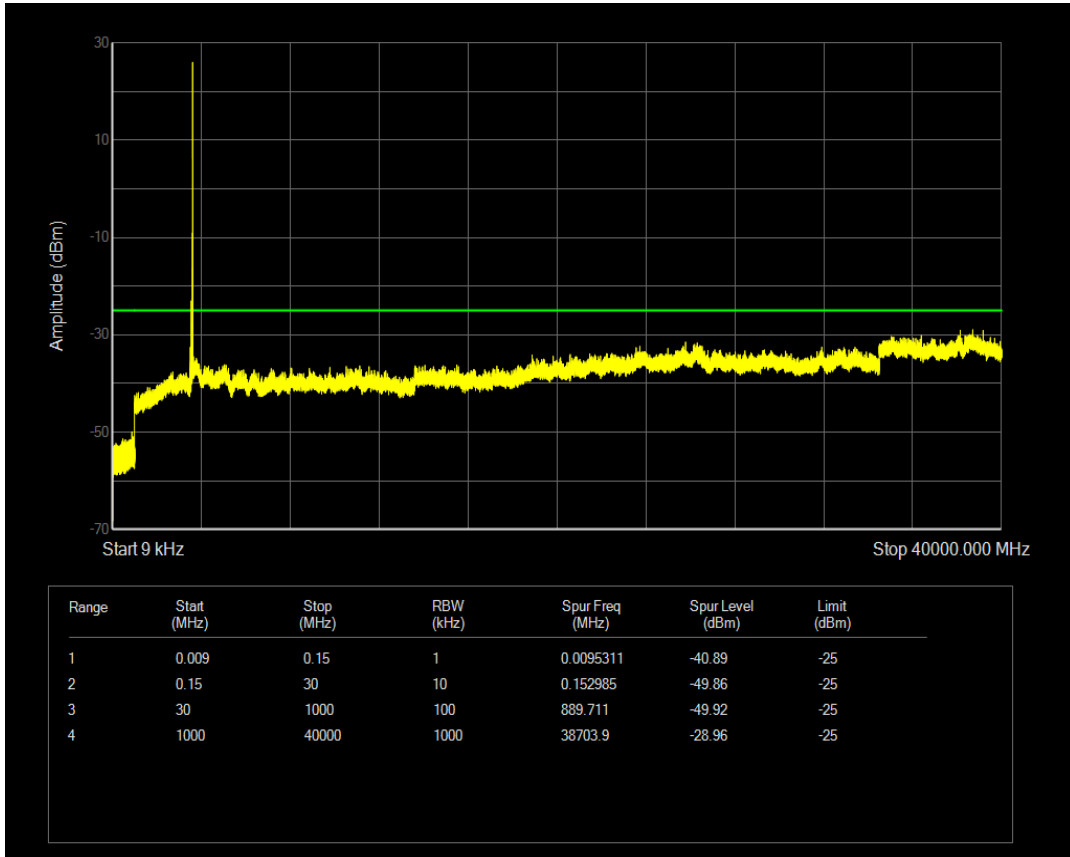
n78(3550-3700) SCS=30kHz DFT_QPSK BW=70MHz Channel=639000 RB=180@0



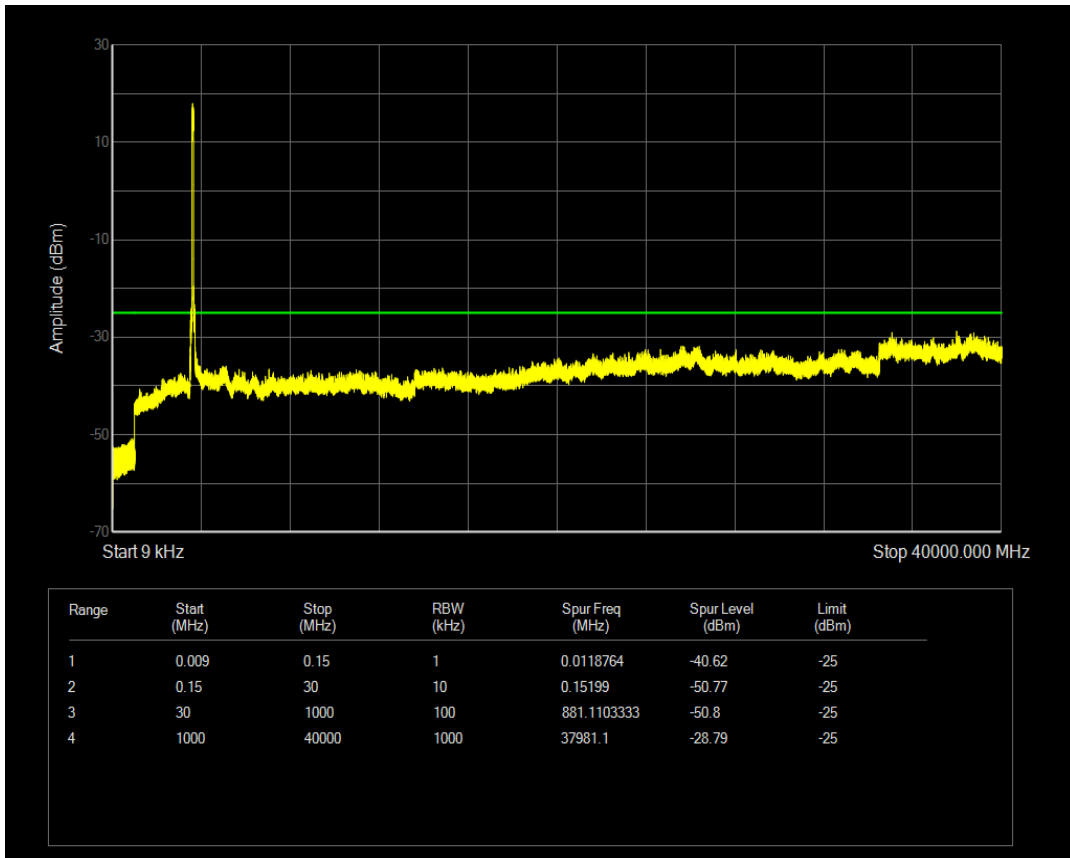
n78(3550-3700) SCS=30kHz DFT_QPSK BW=70MHz Channel=639000 RB=1@0



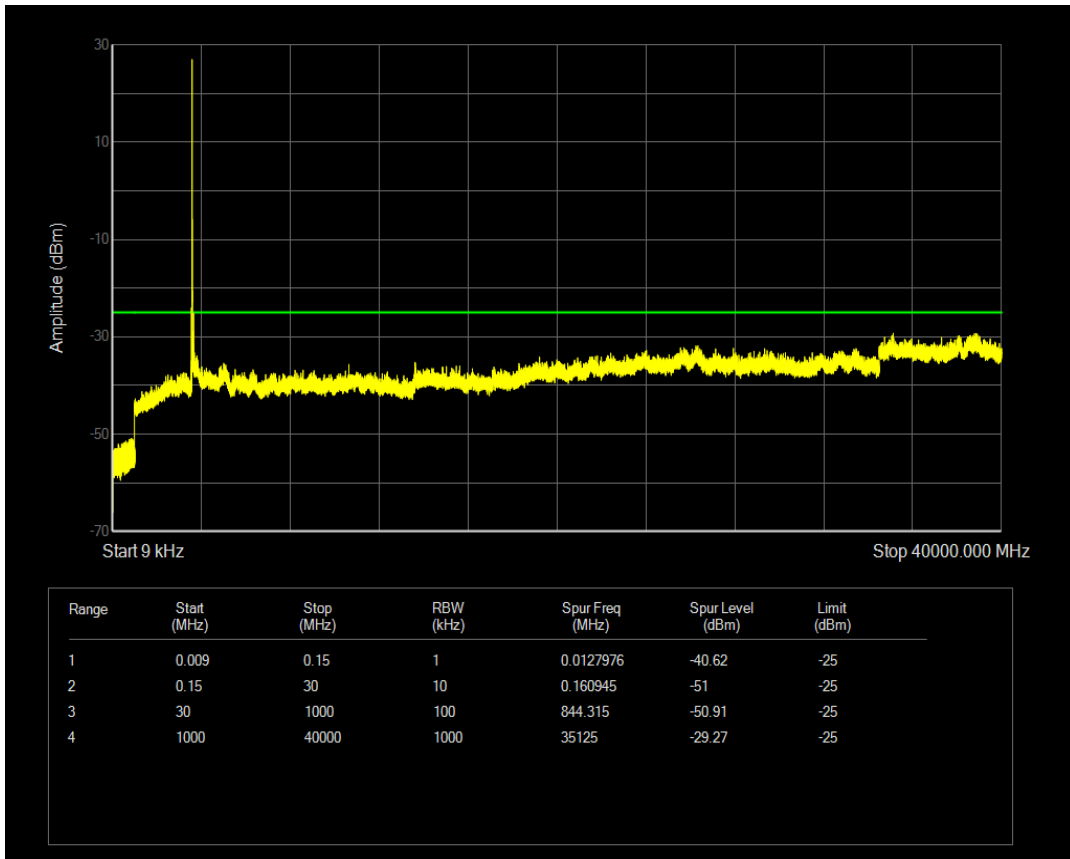
n78(3550-3700) SCS=30kHz DFT_QPSK BW=70MHz Channel=639000 RB=1 @188



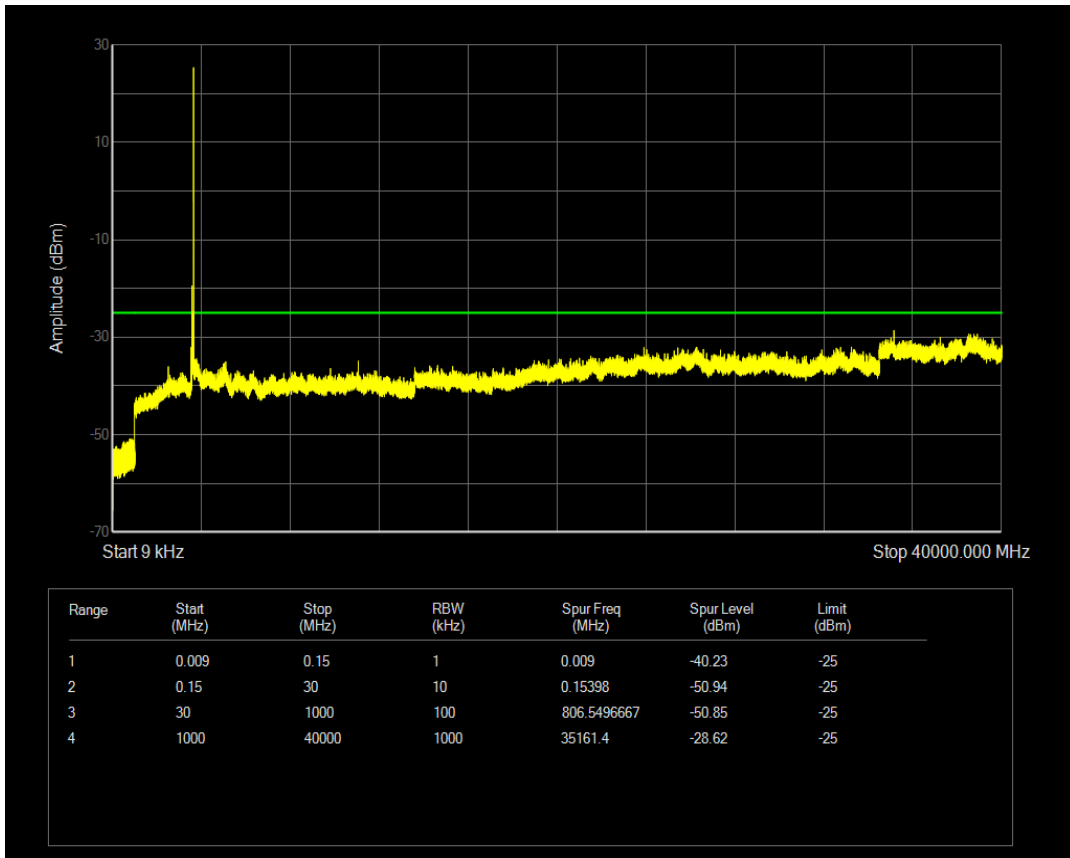
n78(3550-3700) SCS=30kHz DFT_QPSK BW=70MHz Channel=641666 RB=180 @0



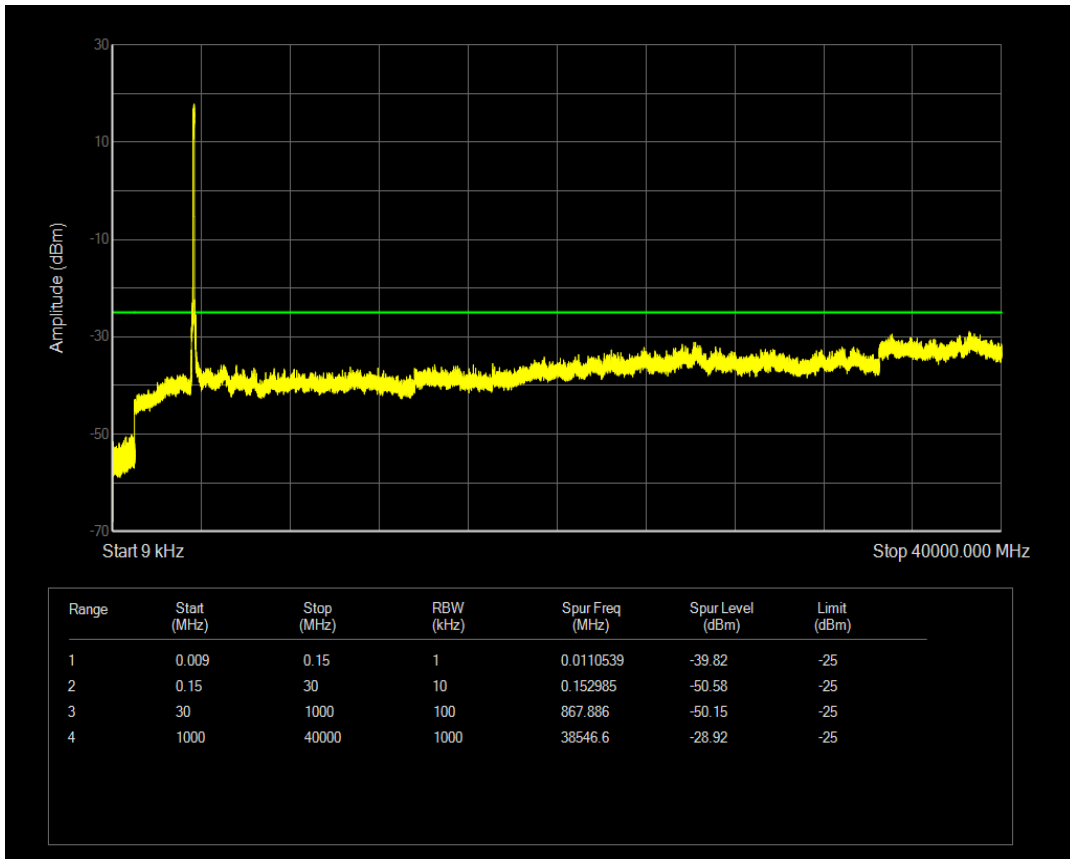
n78(3550-3700) SCS=30kHz DFT_QPSK BW=70MHz Channel=641666 RB=1 @0



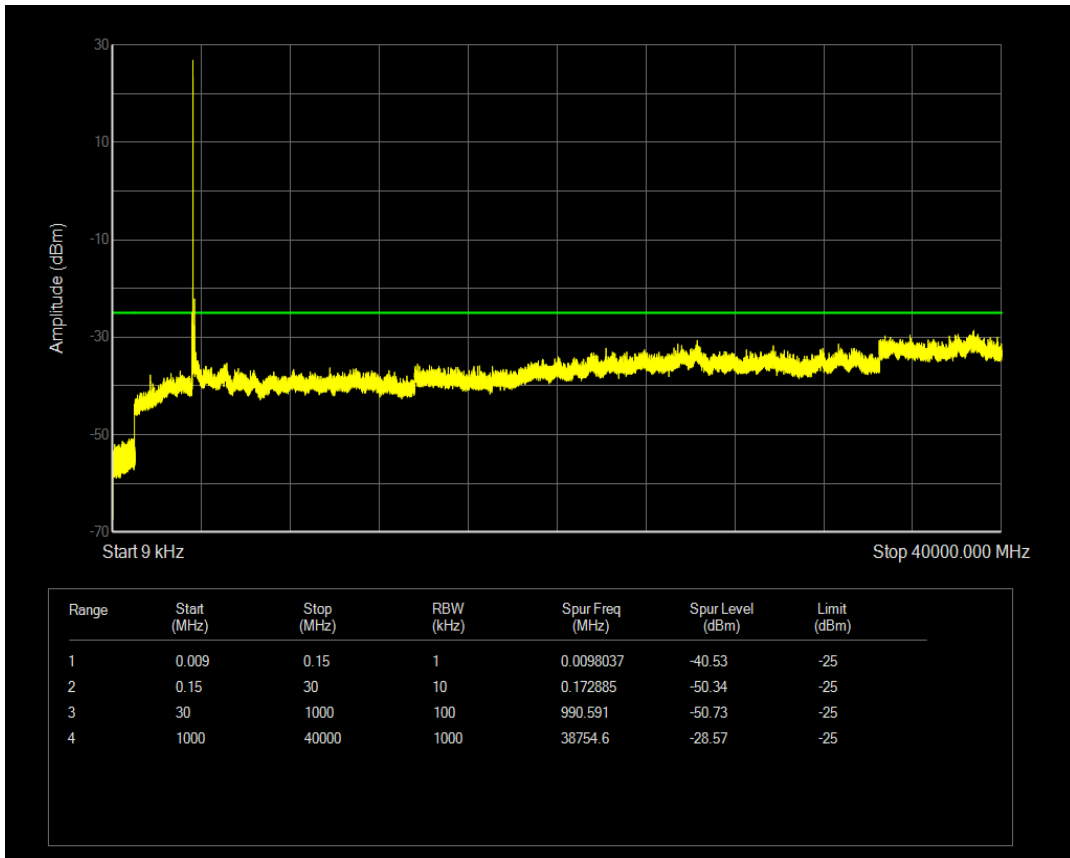
n78(3550-3700) SCS=30kHz DFT_QPSK BW=70MHz Channel=641666 RB=1 @188



n78(3550-3700) SCS=30kHz DFT_QPSK BW=70MHz Channel=644332 RB=180@0



n78(3550-3700) SCS=30kHz DFT_QPSK BW=70MHz Channel=644332 RB=1@0



n78(3550-3700) SCS=30kHz DFT_QPSK BW=70MHz Channel=644332 RB=1 @188

