

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(3450-3550)	30	70	632334	90@45	DFT_BPSK	27.13	-2.3	24.83	30	PASS
n78(3450-3550)	30	70	632334	1@1	DFT_BPSK	26.56	-2.3	24.26	30	PASS
n78(3450-3550)	30	70	632334	1@187	DFT_BPSK	26.41	-2.3	24.11	30	PASS
n78(3450-3550)	30	70	632334	90@45	DFT_QPSK	27.08	-2.3	24.78	30	PASS
n78(3450-3550)	30	70	632334	1@1	DFT_QPSK	26.37	-2.3	24.07	30	PASS
n78(3450-3550)	30	70	632334	1@187	DFT_QPSK	26.16	-2.3	23.86	30	PASS
n78(3450-3550)	30	70	632334	90@45	DFT_QAM16	26.06	-2.3	23.76	30	PASS
n78(3450-3550)	30	70	632334	1@1	DFT_QAM16	25.93	-2.3	23.63	30	PASS
n78(3450-3550)	30	70	632334	1@187	DFT_QAM16	25.65	-2.3	23.35	30	PASS
n78(3450-3550)	30	70	632334	90@45	DFT_QAM64	24.67	-2.3	22.37	30	PASS
n78(3450-3550)	30	70	632334	1@1	DFT_QAM64	24.19	-2.3	21.89	30	PASS
n78(3450-3550)	30	70	632334	1@187	DFT_QAM64	23.99	-2.3	21.69	30	PASS
n78(3450-3550)	30	70	632334	95@47	CP_QPSK	25.60	-2.3	23.30	30	PASS
n78(3450-3550)	30	70	632334	1@1	CP_QPSK	25.02	-2.3	22.72	30	PASS
n78(3450-3550)	30	70	632334	1@187	CP_QPSK	24.90	-2.3	22.60	30	PASS
n78(3450-3550)	30	70	632334	95@47	CP_QAM16	25.15	-2.3	22.85	30	PASS
n78(3450-3550)	30	70	632334	1@1	CP_QAM16	24.88	-2.3	22.58	30	PASS
n78(3450-3550)	30	70	632334	1@187	CP_QAM16	24.63	-2.3	22.33	30	PASS
n78(3450-3550)	30	70	632334	95@47	CP_QAM64	23.61	-2.3	21.31	30	PASS
n78(3450-3550)	30	70	632334	1@1	CP_QAM64	22.71	-2.3	20.41	30	PASS
n78(3450-3550)	30	70	632334	1@187	CP_QAM64	22.53	-2.3	20.23	30	PASS
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	27.24	-2.3	24.94	30	PASS
n78(3450-3550)	30	70	633334	1@1	DFT_BPSK	26.79	-2.3	24.49	30	PASS
n78(3450-3550)	30	70	633334	1@187	DFT_BPSK	26.62	-2.3	24.32	30	PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	27.05	-2.3	24.75	30	PASS
n78(3450-3550)	30	70	633334	1@1	DFT_QPSK	26.63	-2.3	24.33	30	PASS
n78(3450-3550)	30	70	633334	1@187	DFT_QPSK	26.49	-2.3	24.19	30	PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QAM16	26.06	-2.3	23.76	30	PASS
n78(3450-3550)	30	70	633334	1@1	DFT_QAM16	25.83	-2.3	23.53	30	PASS
n78(3450-3550)	30	70	633334	1@187	DFT_QAM16	25.60	-2.3	23.30	30	PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QAM64	24.71	-2.3	22.41	30	PASS
n78(3450-3550)	30	70	633334	1@1	DFT_QAM64	24.10	-2.3	21.80	30	PASS
n78(3450-3550)	30	70	633334	1@187	DFT_QAM64	23.90	-2.3	21.60	30	PASS
n78(3450-3550)	30	70	633334	95@47	CP_QPSK	25.56	-2.3	23.26	30	PASS
n78(3450-3550)	30	70	633334	1@1	CP_QPSK	25.37	-2.3	23.07	30	PASS
n78(3450-3550)	30	70	633334	1@187	CP_QPSK	25.20	-2.3	22.90	30	PASS
n78(3450-3550)	30	70	633334	95@47	CP_QAM16	25.04	-2.3	22.74	30	PASS

n78(3450-3550)	30	70	633334	1@1	CP_QAM16	25.17	-2.3	22.87	30	PASS
n78(3450-3550)	30	70	633334	1@187	CP_QAM16	24.91	-2.3	22.61	30	PASS
n78(3450-3550)	30	70	633334	95@47	CP_QAM64	23.51	-2.3	21.21	30	PASS
n78(3450-3550)	30	70	633334	1@1	CP_QAM64	22.68	-2.3	20.38	30	PASS
n78(3450-3550)	30	70	633334	1@187	CP_QAM64	22.80	-2.3	20.50	30	PASS
n78(3450-3550)	30	70	634332	90@45	DFT_BPSK	27.00	-2.3	24.70	30	PASS
n78(3450-3550)	30	70	634332	1@1	DFT_BPSK	26.68	-2.3	24.38	30	PASS
n78(3450-3550)	30	70	634332	1@187	DFT_BPSK	26.71	-2.3	24.41	30	PASS
n78(3450-3550)	30	70	634332	90@45	DFT_QPSK	26.96	-2.3	24.66	30	PASS
n78(3450-3550)	30	70	634332	1@1	DFT_QPSK	26.36	-2.3	24.06	30	PASS
n78(3450-3550)	30	70	634332	1@187	DFT_QPSK	26.43	-2.3	24.13	30	PASS
n78(3450-3550)	30	70	634332	90@45	DFT_QAM16	26.01	-2.3	23.71	30	PASS
n78(3450-3550)	30	70	634332	1@1	DFT_QAM16	25.93	-2.3	23.63	30	PASS
n78(3450-3550)	30	70	634332	1@187	DFT_QAM16	26.02	-2.3	23.72	30	PASS
n78(3450-3550)	30	70	634332	90@45	DFT_QAM64	24.60	-2.3	22.30	30	PASS
n78(3450-3550)	30	70	634332	1@1	DFT_QAM64	23.87	-2.3	21.57	30	PASS
n78(3450-3550)	30	70	634332	1@187	DFT_QAM64	23.81	-2.3	21.51	30	PASS
n78(3450-3550)	30	70	634332	95@47	CP_QPSK	25.46	-2.3	23.16	30	PASS
n78(3450-3550)	30	70	634332	1@1	CP_QPSK	25.27	-2.3	22.97	30	PASS
n78(3450-3550)	30	70	634332	1@187	CP_QPSK	25.25	-2.3	22.95	30	PASS
n78(3450-3550)	30	70	634332	95@47	CP_QAM16	25.03	-2.3	22.73	30	PASS
n78(3450-3550)	30	70	634332	1@1	CP_QAM16	24.91	-2.3	22.61	30	PASS
n78(3450-3550)	30	70	634332	1@187	CP_QAM16	24.91	-2.3	22.61	30	PASS
n78(3450-3550)	30	70	634332	95@47	CP_QAM64	23.41	-2.3	21.11	30	PASS
n78(3450-3550)	30	70	634332	1@1	CP_QAM64	22.90	-2.3	20.60	30	PASS
n78(3450-3550)	30	70	634332	1@187	CP_QAM64	22.96	-2.3	20.66	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
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	3.87	-33.98	-0.01	Within authorized band for 5G NR n78	PASS
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	3.45	-29.62	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	4.45	-34.58	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	3.87	-35.30	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	3.45	-29.44	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	4.45	-30.62	-0.01		PASS

Note: Only the worst case shown in the report.

NV:

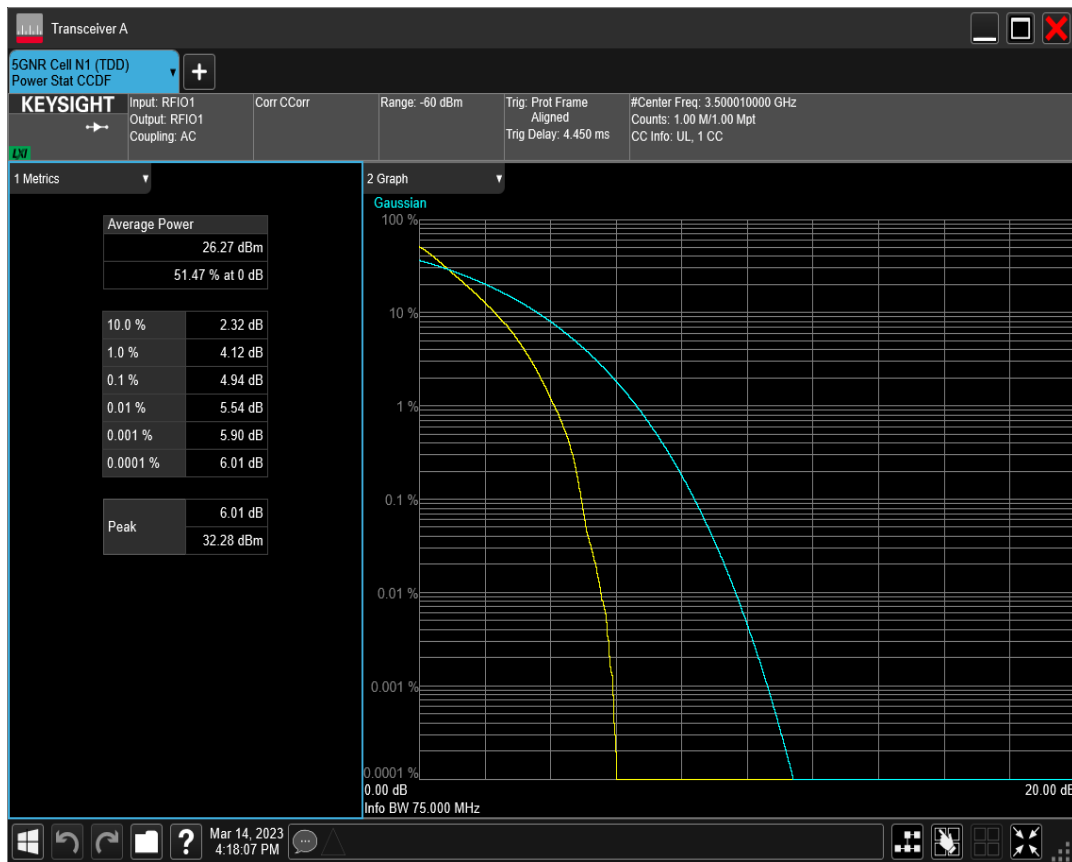
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Voltage (Vdc)	Result(Hz)	Result (ppm)	Limit (ppm)	Verdict
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	-30	-33.68	-0.01	Within authorized band for 5G NR n78	PASS
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	-20	-29.91	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	-10	-34.65	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	0	-35.4	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	10	-29.25	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	20	-30.64	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	30	-33.72	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	40	-29.82	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_BPSK	50	-34.88	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	-30	-34.96	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	-20	-29.42	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	-10	-30.73	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	0	-33.69	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	10	-29.68	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	20	-35.12	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	30	-34.47	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	40	-29.54	-0.01		PASS
n78(3450-3550)	30	70	633334	90@45	DFT_QPSK	50	-29.34	-0.01		PASS

Note: Only the worst case shown in the report.

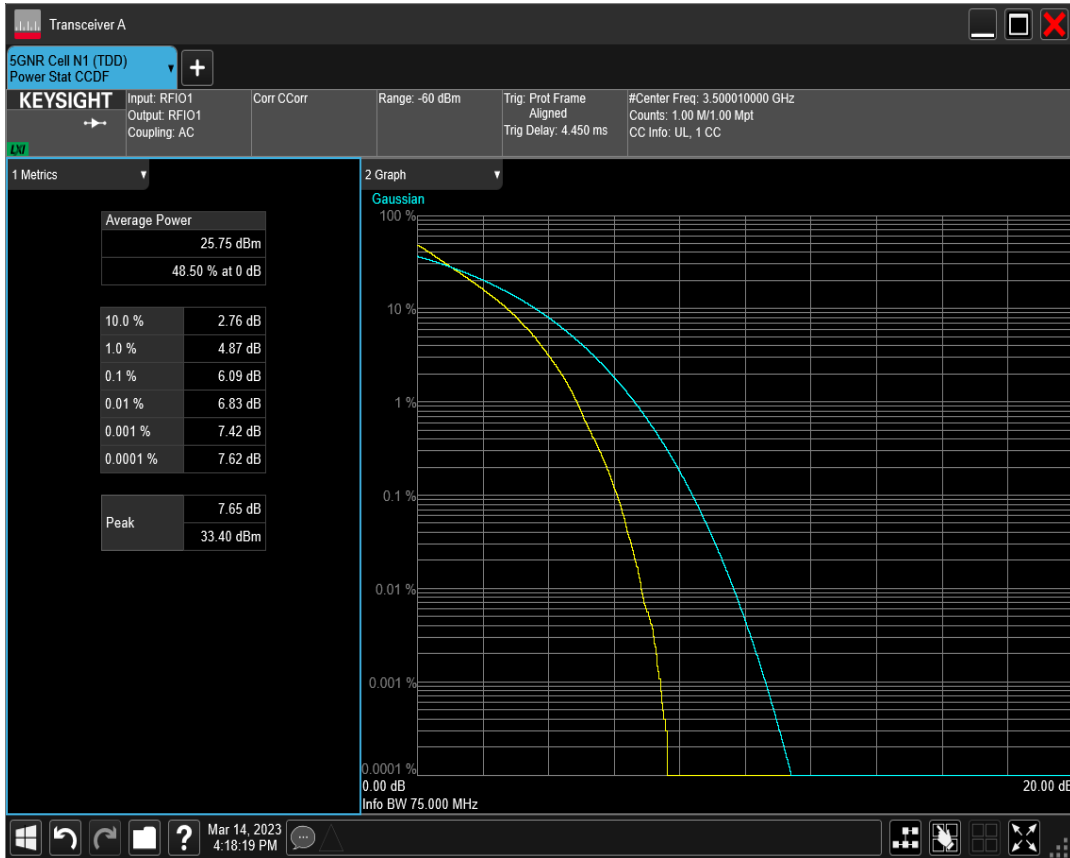
3 Peak-to-Average Ratio for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Result (dB)	high Limit (dB)	Verdict
n78(3450-3550)	30	70	633334	180@0	DFT_BPSK	4.94	13	PASS
n78(3450-3550)	30	70	633334	180@0	DFT_QPSK	6.09	13	PASS
n78(3450-3550)	30	70	633334	180@0	DFT_QAM16	6.81	13	PASS
n78(3450-3550)	30	70	633334	180@0	DFT_QAM64	6.89	13	PASS

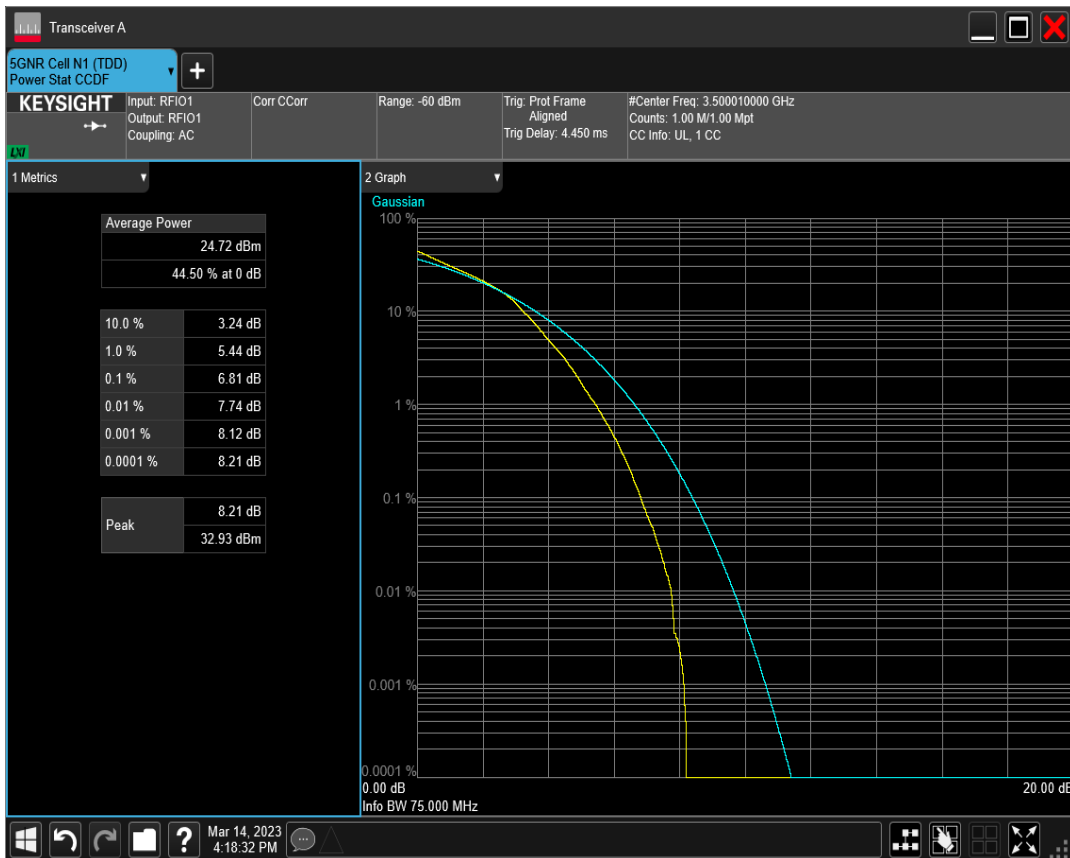
n78(3450-3550) SCS=30kHz DFT_BPSK BW=70MHz Channel=633334 RB=180@0



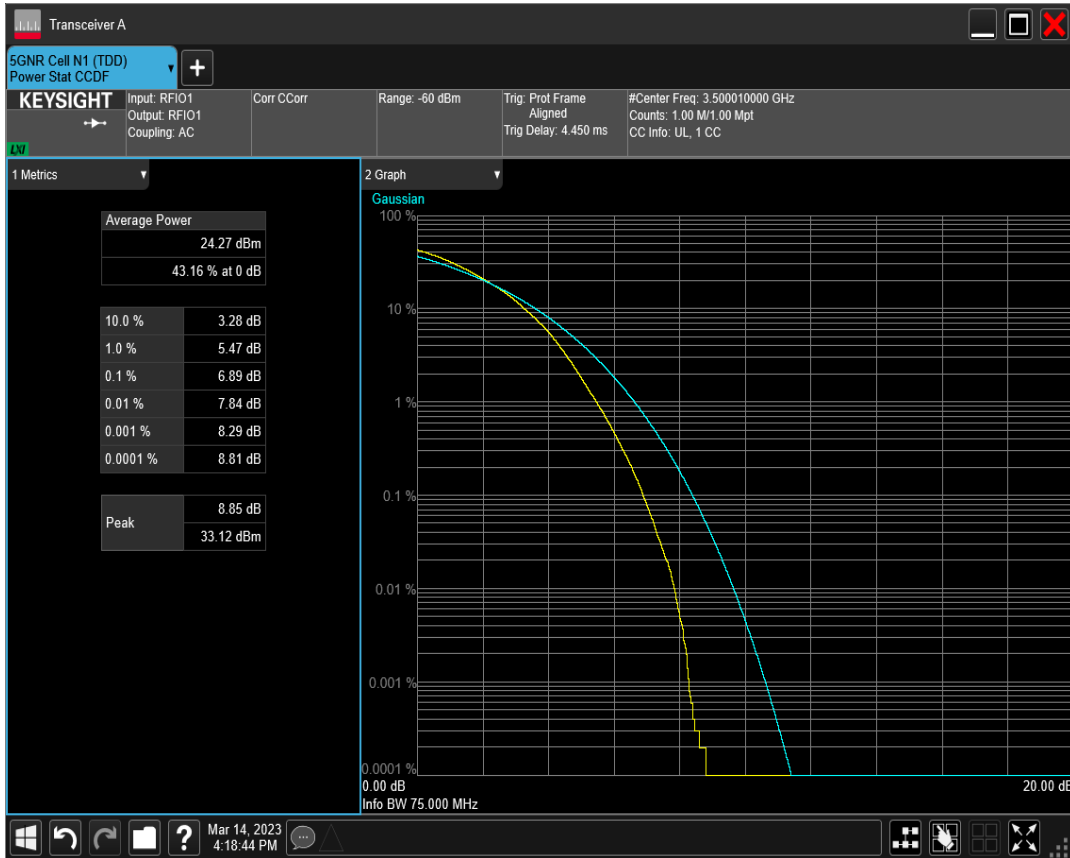
n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=633334 RB=180@0



n78(3450-3550) SCS=30kHz DFT_QAM16 BW=70MHz Channel=633334 RB=180@0



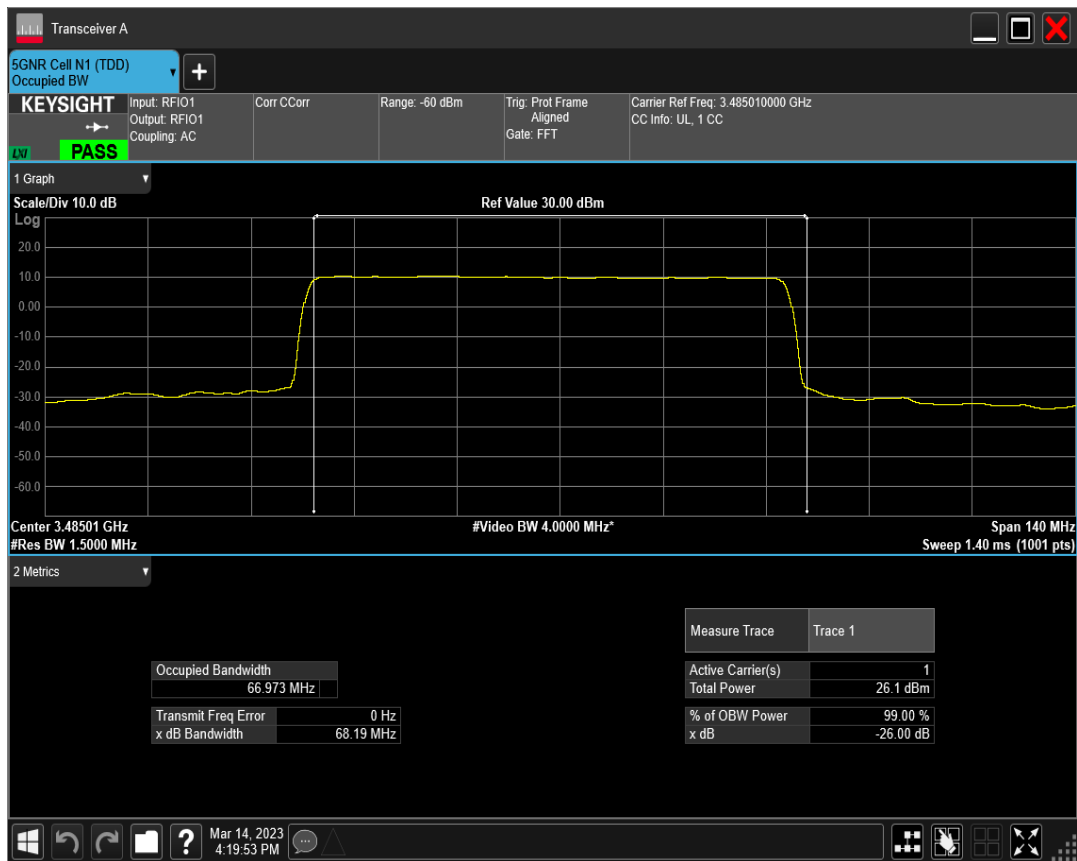
n78(3450-3550) SCS=30kHz DFT_QAM64 BW=70MHz Channel=633334 RB=180@0



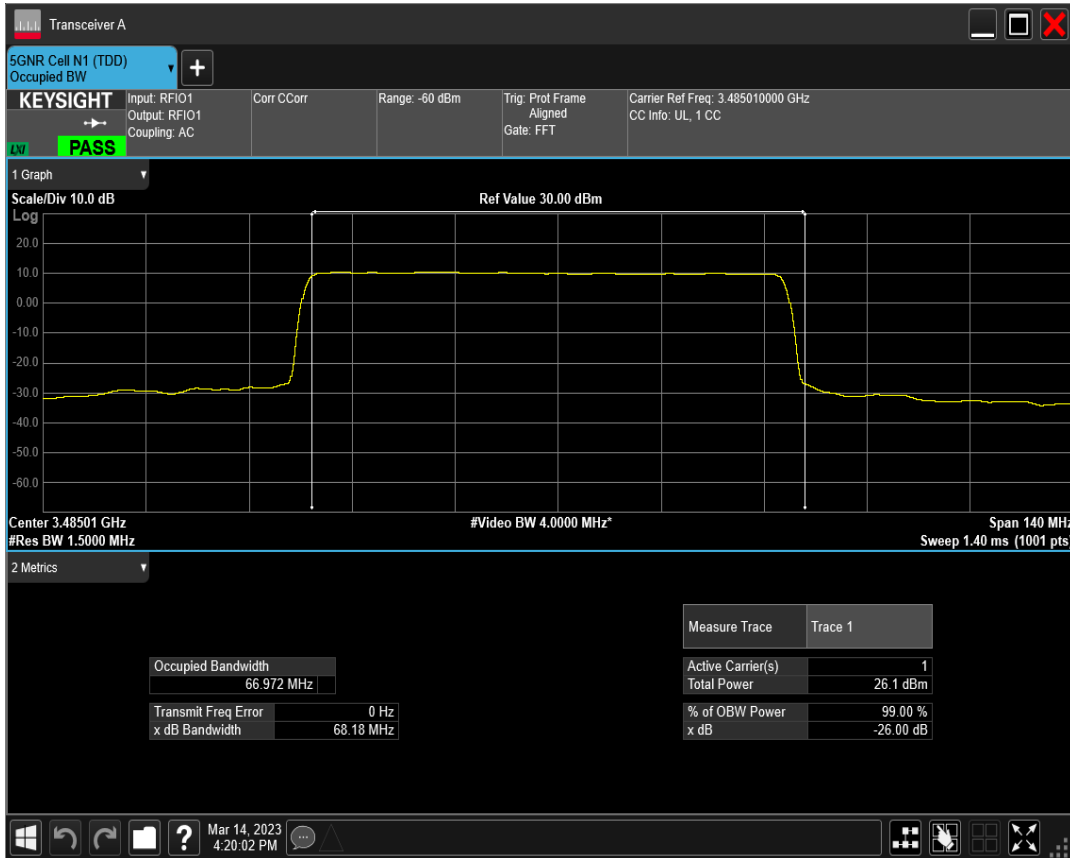
4 Occupied bandwidth for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
n78(3450-3550)	30	70	632334	180@0	DFT_BPSK	66.970	68.190	PASS
n78(3450-3550)	30	70	632334	180@0	DFT_QPSK	66.970	68.180	PASS
n78(3450-3550)	30	70	632334	180@0	DFT_QAM16	67.000	68.200	PASS
n78(3450-3550)	30	70	632334	180@0	DFT_QAM64	66.980	68.190	PASS
n78(3450-3550)	30	70	632334	189@0	CP_QPSK	67.790	71.440	PASS
n78(3450-3550)	30	70	633334	180@0	DFT_BPSK	67.050	68.170	PASS
n78(3450-3550)	30	70	633334	180@0	DFT_QPSK	67.010	68.180	PASS
n78(3450-3550)	30	70	633334	180@0	DFT_QAM16	67.010	68.180	PASS
n78(3450-3550)	30	70	633334	180@0	DFT_QAM64	67.020	68.190	PASS
n78(3450-3550)	30	70	633334	189@0	CP_QPSK	67.810	71.440	PASS
n78(3450-3550)	30	70	634332	180@0	DFT_BPSK	67.040	68.170	PASS
n78(3450-3550)	30	70	634332	180@0	DFT_QPSK	67.230	68.150	PASS
n78(3450-3550)	30	70	634332	180@0	DFT_QAM16	67.010	68.180	PASS
n78(3450-3550)	30	70	634332	180@0	DFT_QAM64	67.040	68.200	PASS
n78(3450-3550)	30	70	634332	189@0	CP_QPSK	67.810	71.440	PASS

n78(3450-3550) SCS=30kHz DFT_BPSK BW=70MHz Channel=632334 RB=180@0



n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=632334 RB=180@0



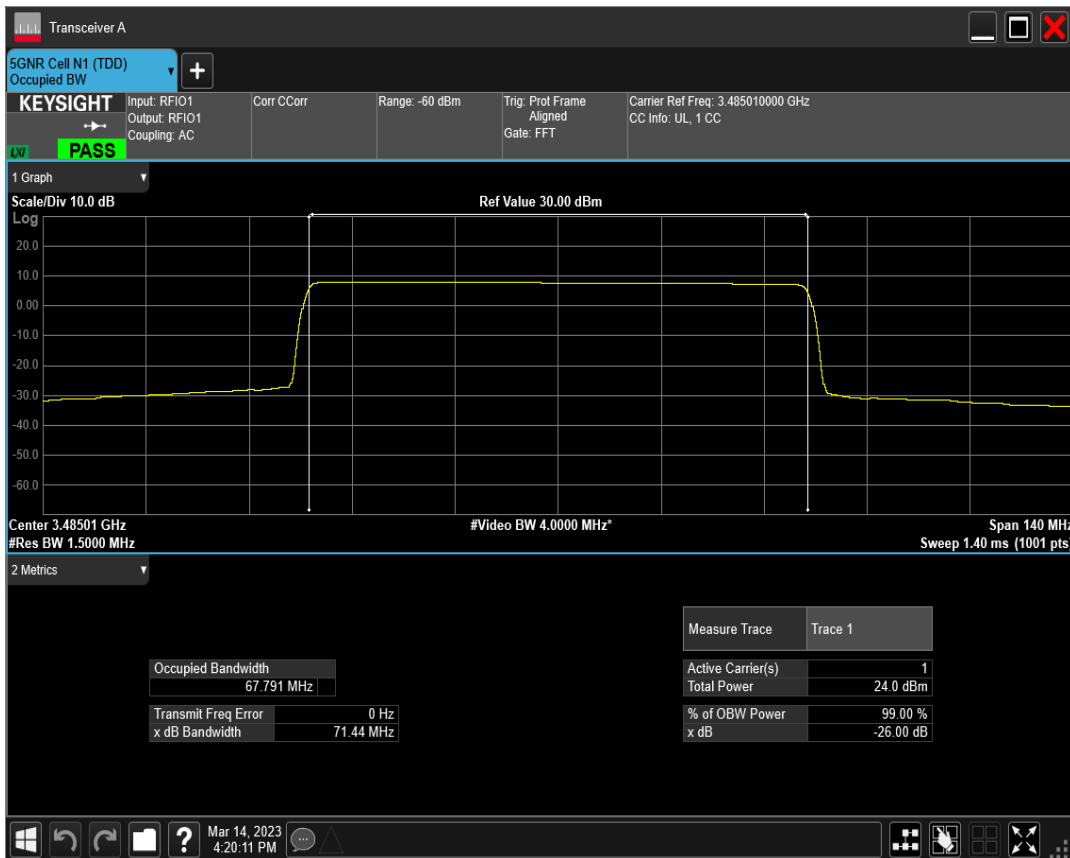
n78(3450-3550) SCS=30kHz DFT_QAM16 BW=70MHz Channel=632334 RB=180@0



n78(3450-3550) SCS=30kHz DFT_QAM64 BW=70MHz Channel=632334 RB=180@0



n78(3450-3550) SCS=30kHz CP_QPSK BW=70MHz Channel=632334 RB=189@0



n78(3450-3550) SCS=30kHz DFT_BPSK BW=70MHz Channel=633334 RB=180@0



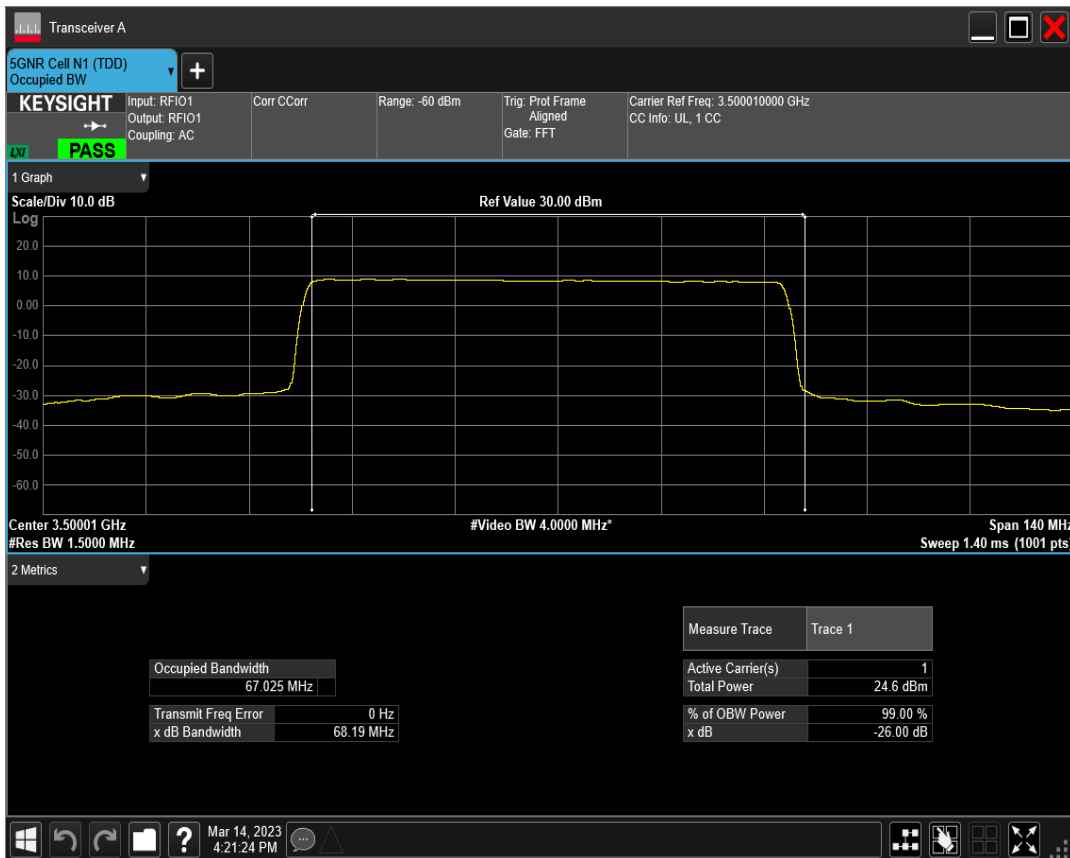
n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=633334 RB=180@0



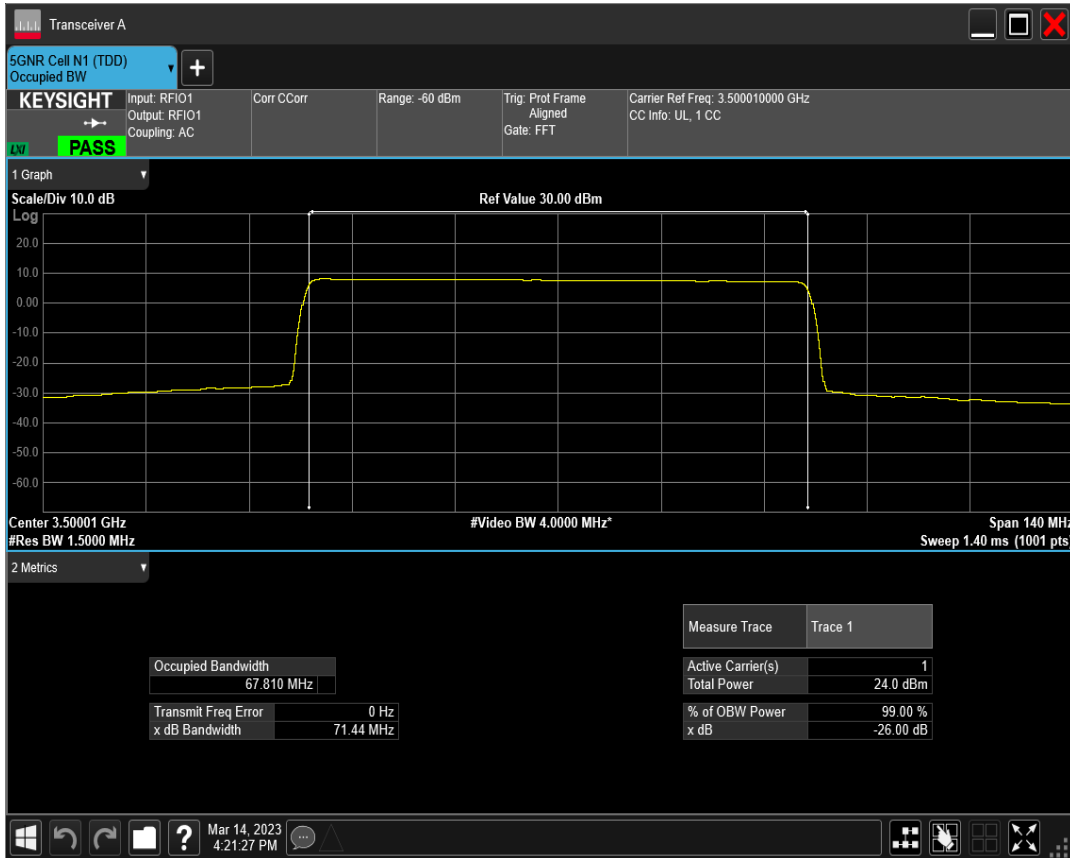
n78(3450-3550) SCS=30kHz DFT_QAM16 BW=70MHz Channel=633334 RB=180@0



n78(3450-3550) SCS=30kHz DFT_QAM64 BW=70MHz Channel=633334 RB=180@0



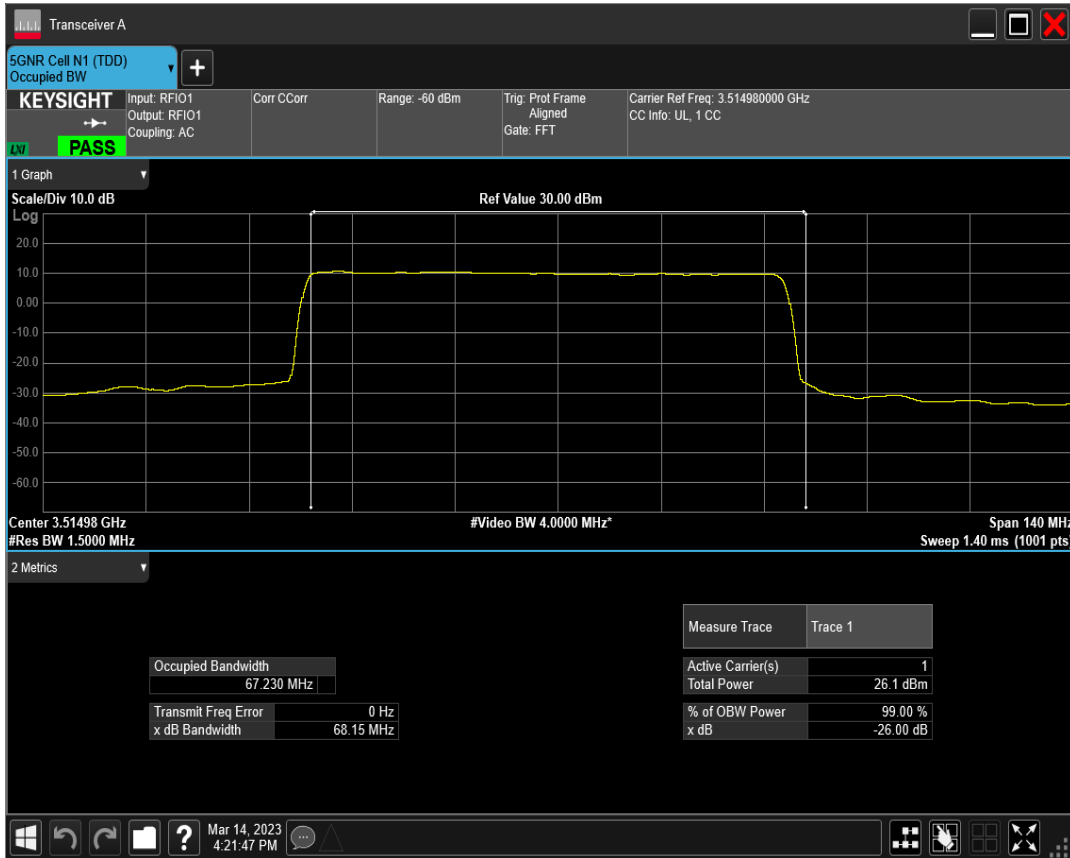
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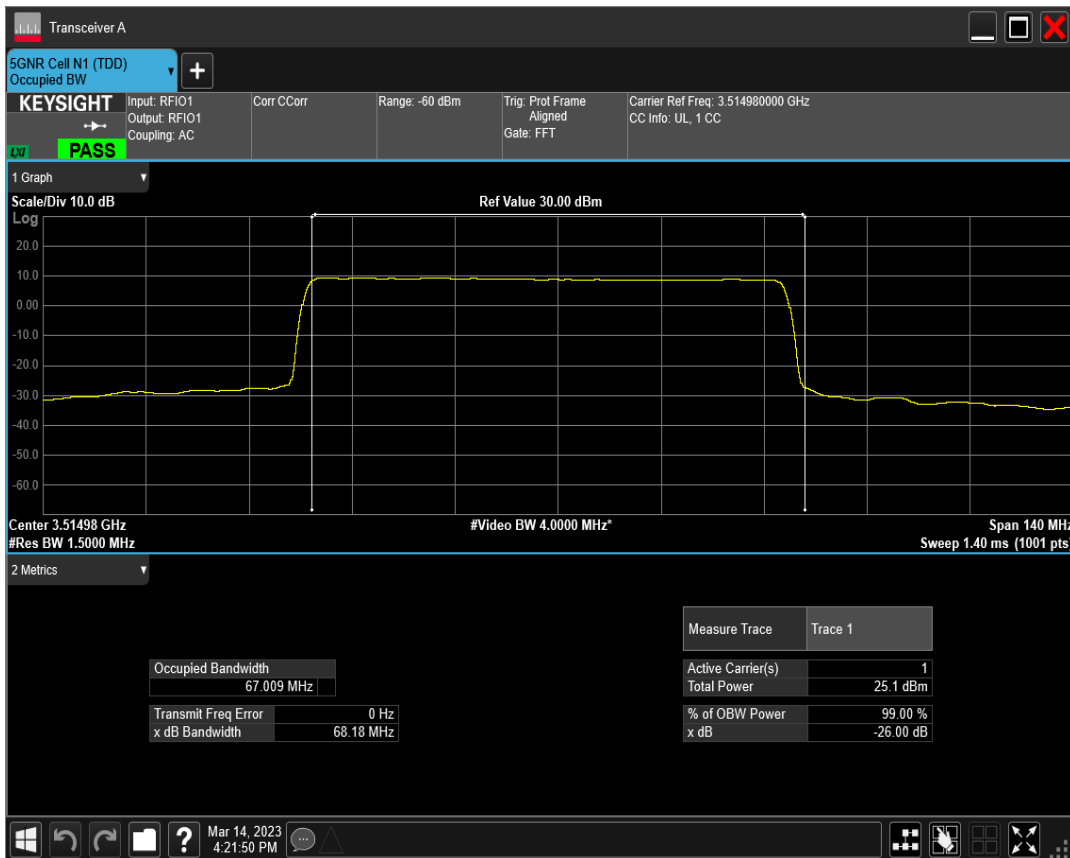
n78(3450-3550) SCS=30kHz DFT_BPSK BW=70MHz Channel=634332 RB=180@0



n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=634332 RB=180@0



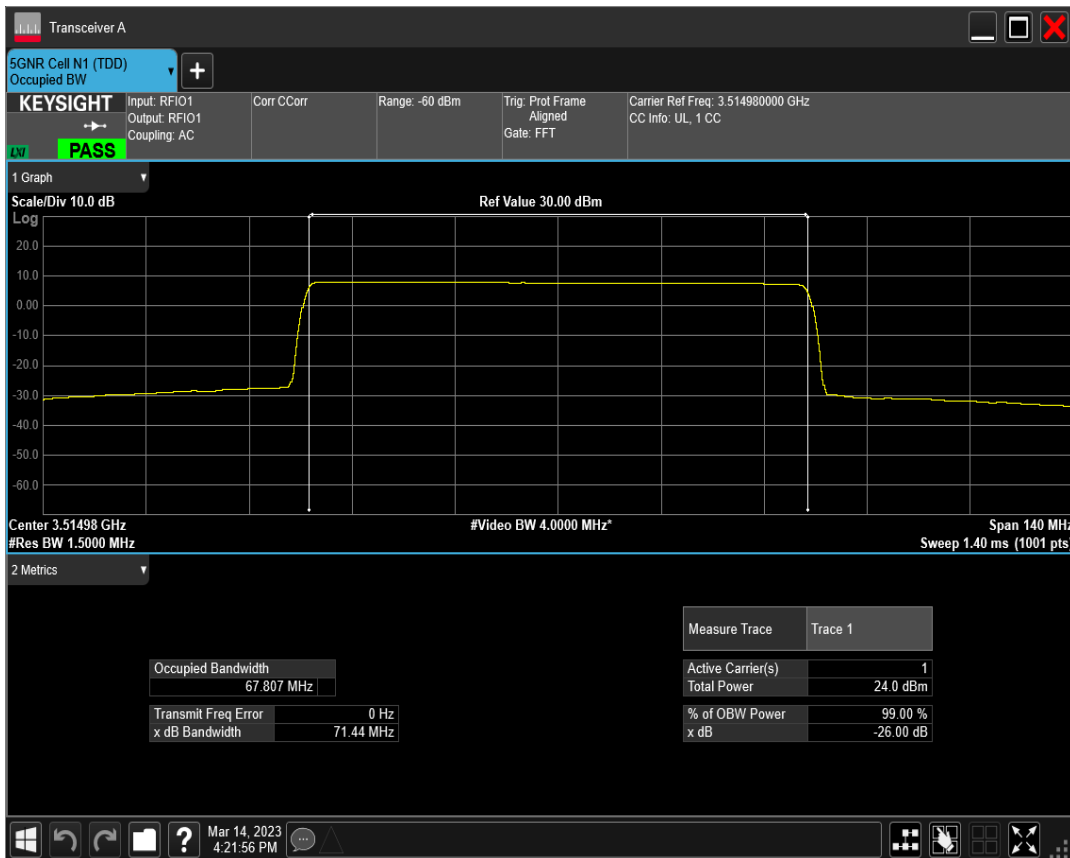
n78(3450-3550) SCS=30kHz DFT_QAM16 BW=70MHz Channel=634332 RB=180@0



n78(3450-3550) SCS=30kHz DFT_QAM64 BW=70MHz Channel=634332 RB=180@0



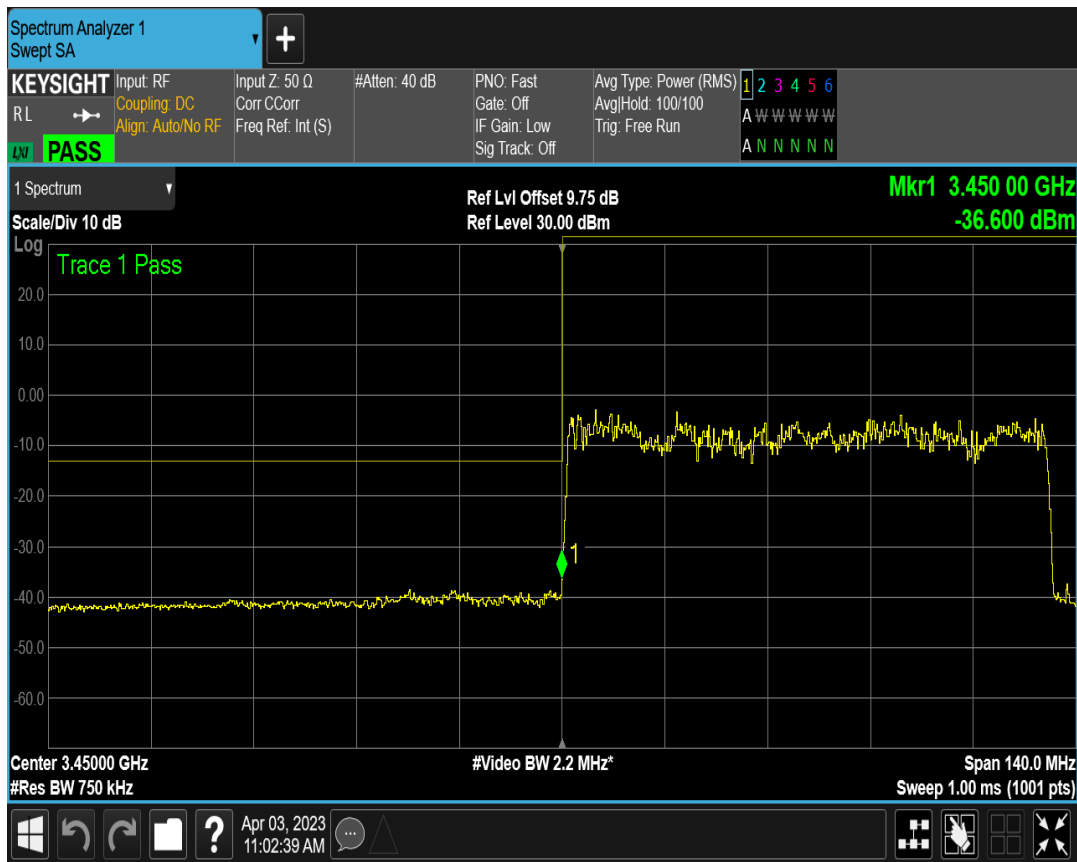
n78(3450-3550) SCS=30kHz CP_QPSK BW=70MHz Channel=634332 RB=189@0



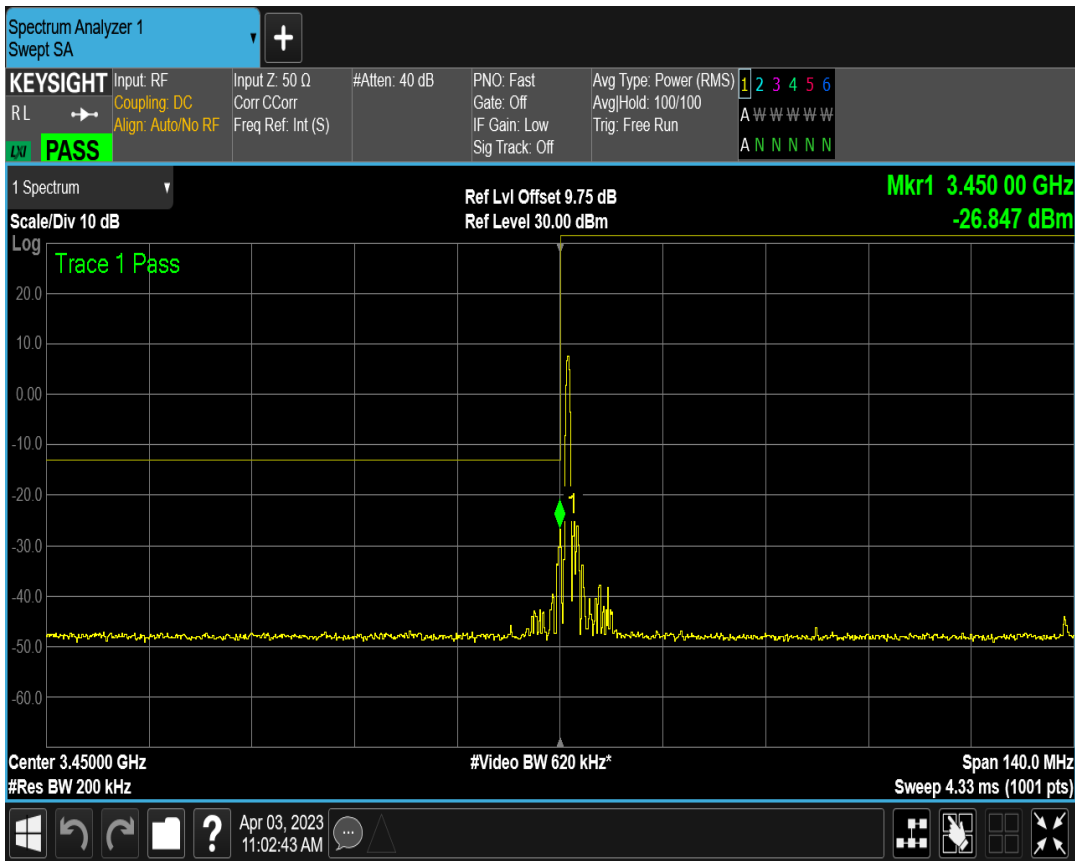
5 Band edge for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n78(3450-3550)	30	70	632334	180@0	DFT_QPSK	3450.00	-36.60	-13	PASS
n78(3450-3550)	30	70	632334	1@0	DFT_QPSK	3450.00	-26.84	-13	PASS
n78(3450-3550)	30	70	634332	180@0	DFT_QPSK	3614.96	-37.70	-13	PASS
n78(3450-3550)	30	70	634332	1@188	DFT_QPSK	3550.42	-34.50	-13	PASS

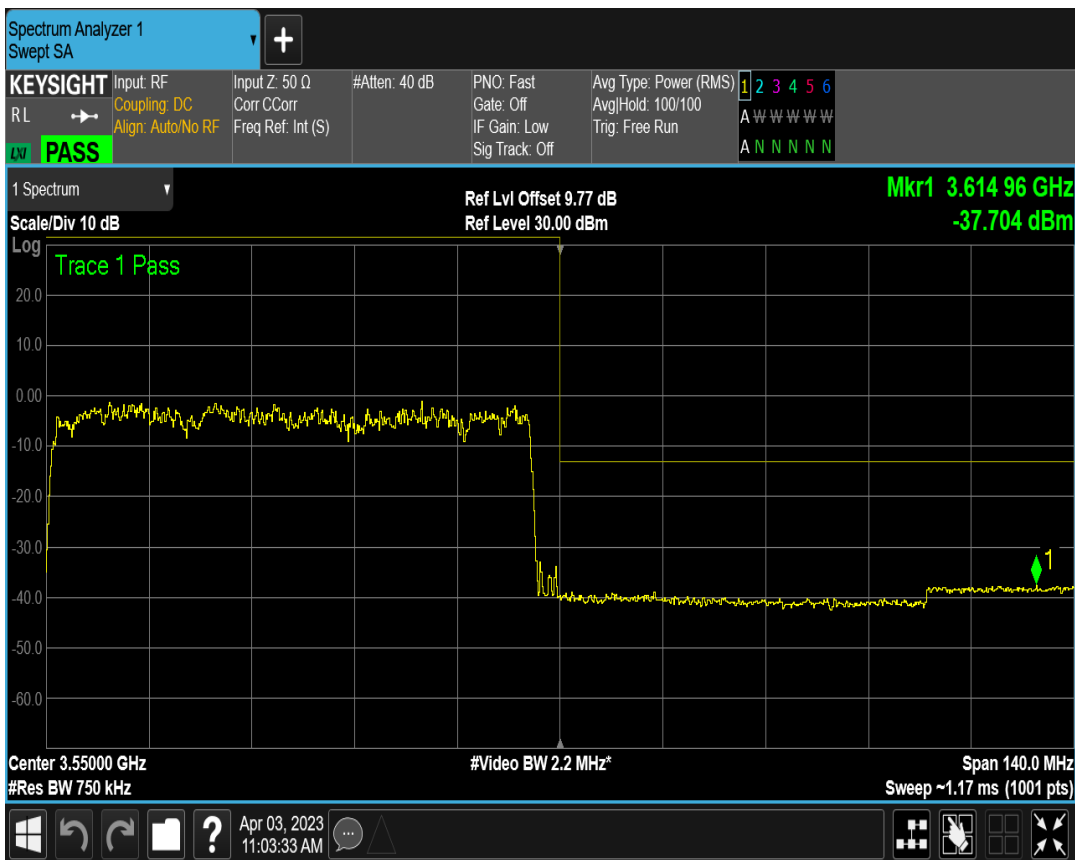
n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=632334 RB=180@0



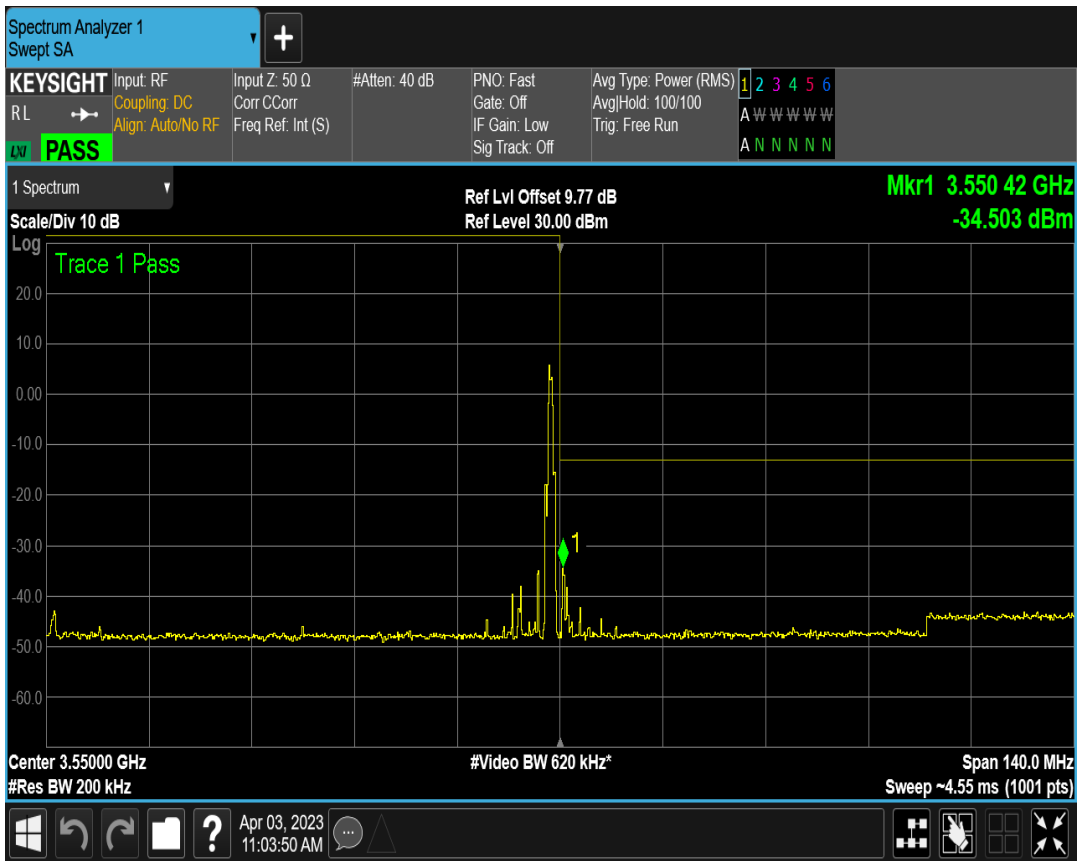
n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=632334 RB=1@0



n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=634332 RB=180@0



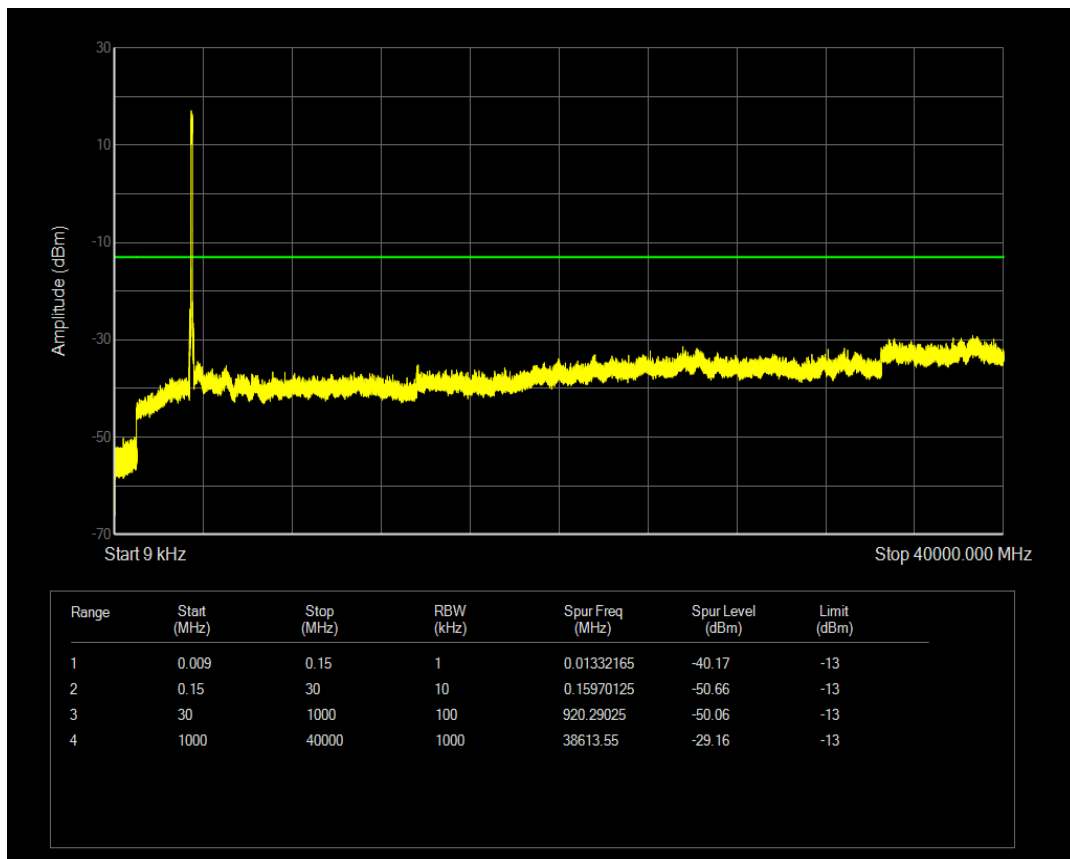
n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=634332 RB=1@188



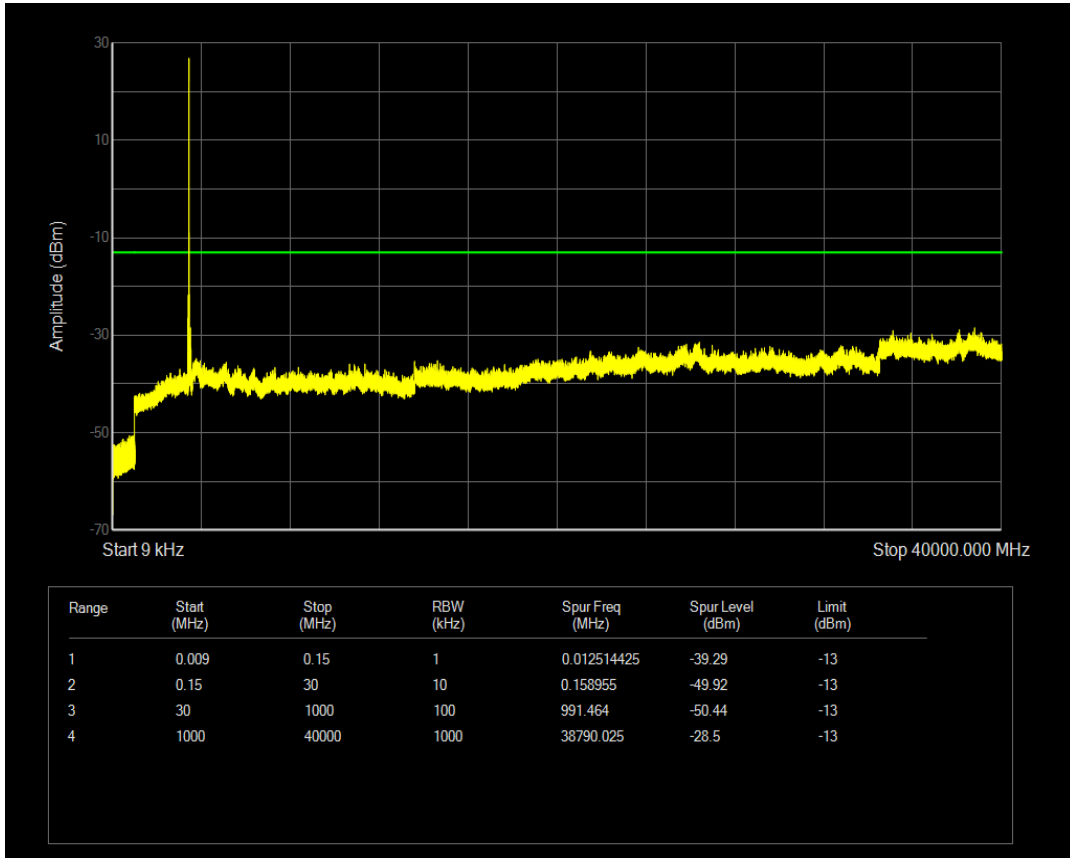
6 Out-of-band emissions for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n78(3450-3550)	30	70	632334	180@0	DFT_QPSK	38613.55	-29.16	-13	PASS
n78(3450-3550)	30	70	632334	1@0	DFT_QPSK	38790.03	-28.50	-13	PASS
n78(3450-3550)	30	70	632334	1@188	DFT_QPSK	38524.83	-28.42	-13	PASS
n78(3450-3550)	30	70	633334	180@0	DFT_QPSK	38166.03	-28.48	-13	PASS
n78(3450-3550)	30	70	633334	1@0	DFT_QPSK	38454.63	-29.01	-13	PASS
n78(3450-3550)	30	70	633334	1@188	DFT_QPSK	38671.08	-28.57	-13	PASS
n78(3450-3550)	30	70	634332	180@0	DFT_QPSK	38547.25	-28.15	-13	PASS
n78(3450-3550)	30	70	634332	1@0	DFT_QPSK	38615.50	-28.26	-13	PASS
n78(3450-3550)	30	70	634332	1@188	DFT_QPSK	38736.40	-28.62	-13	PASS

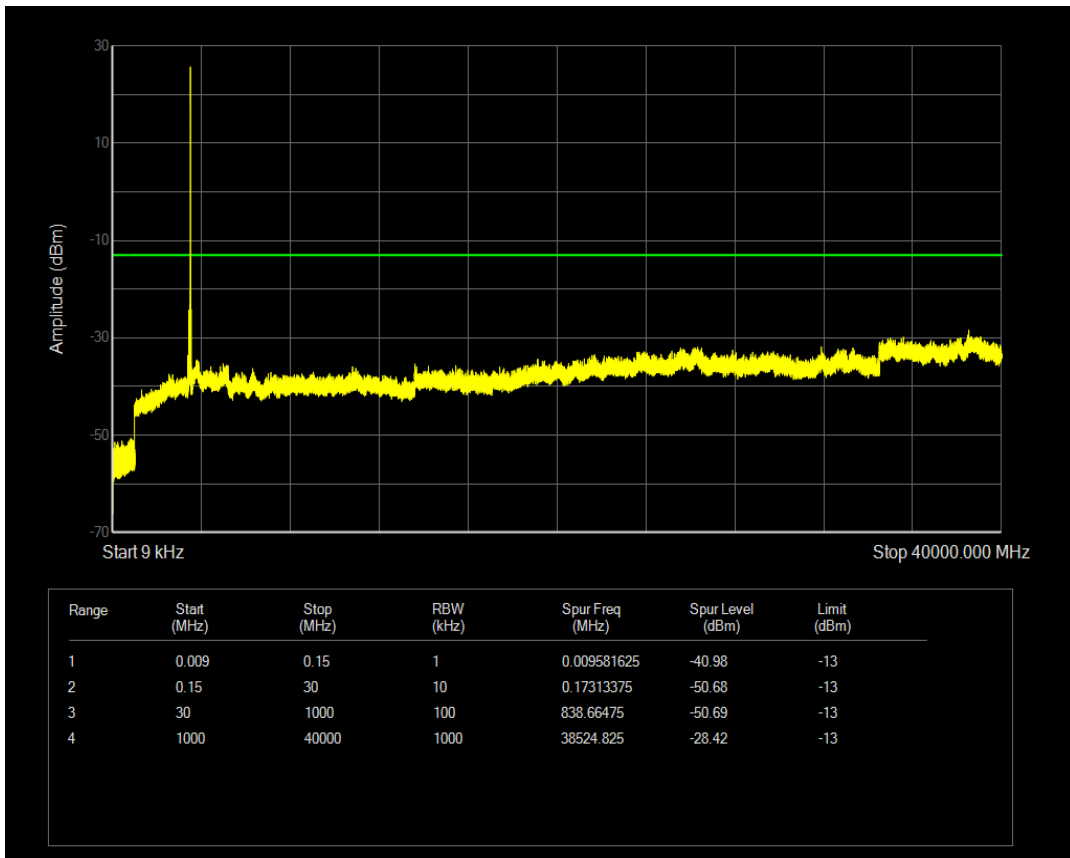
n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=632334 RB=180@0



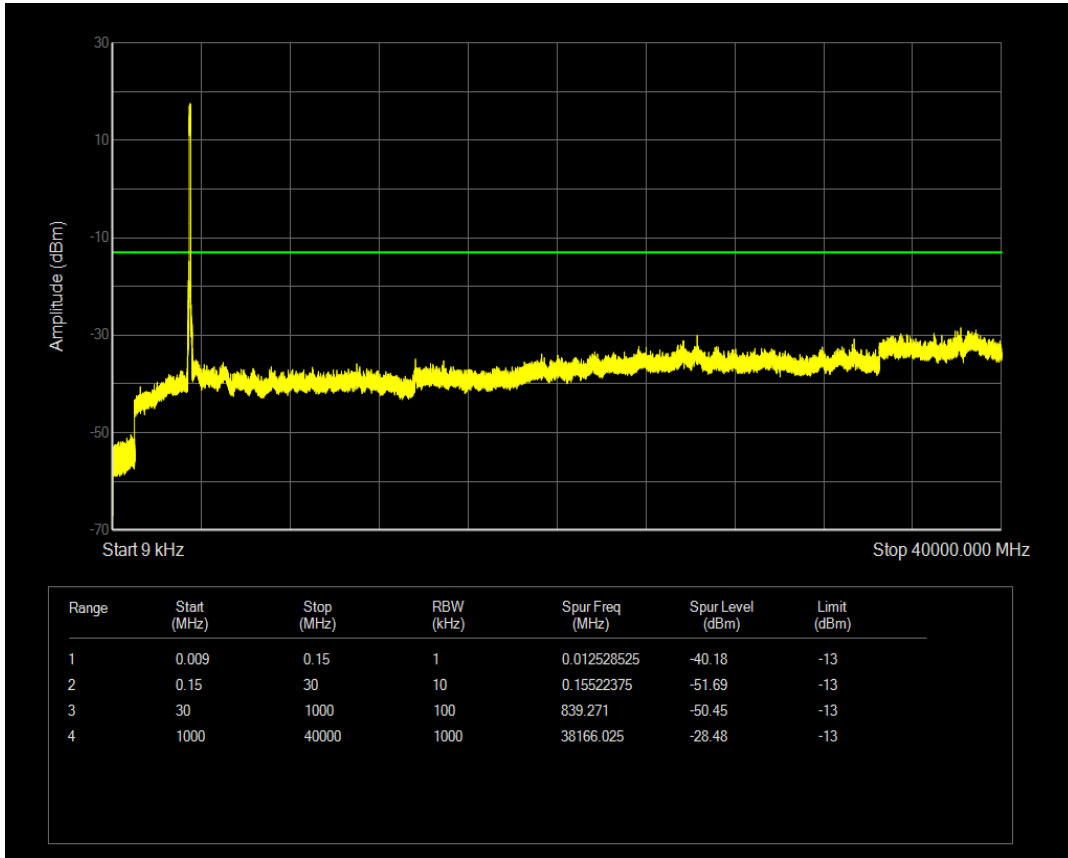
n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=632334 RB=1@0



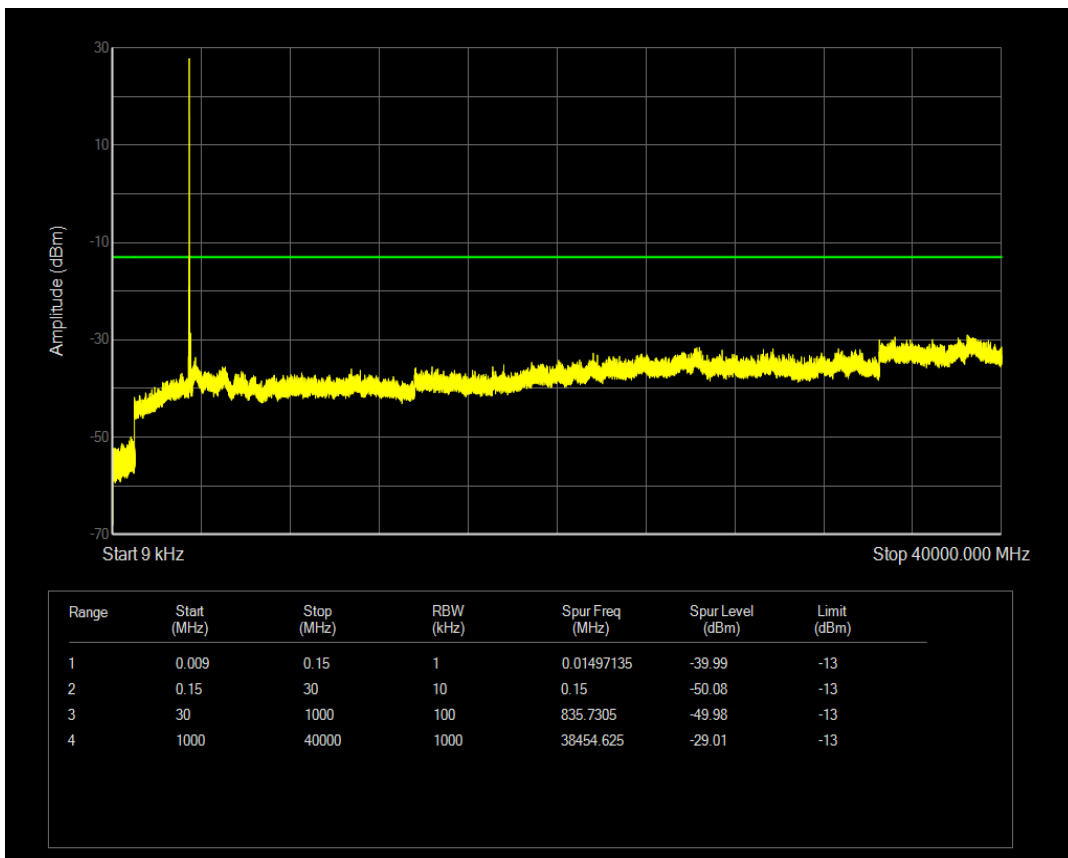
n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=632334 RB=1@188



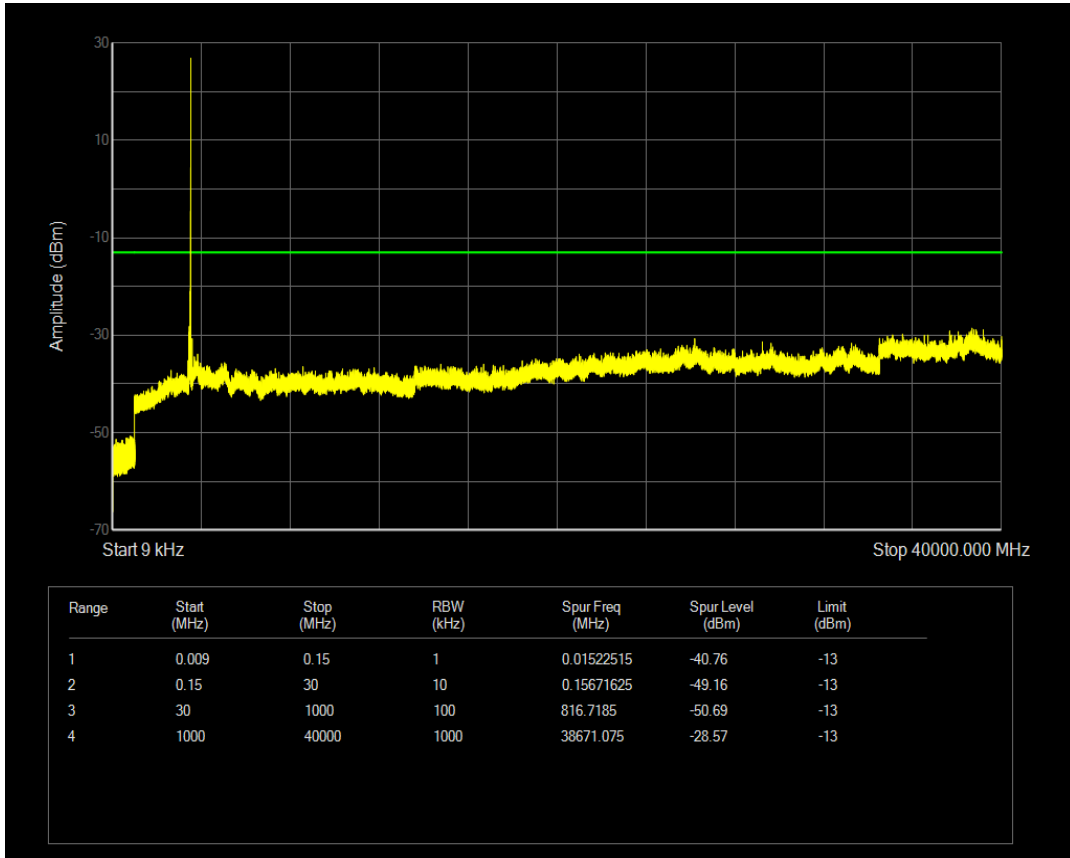
n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=633334 RB=180@0



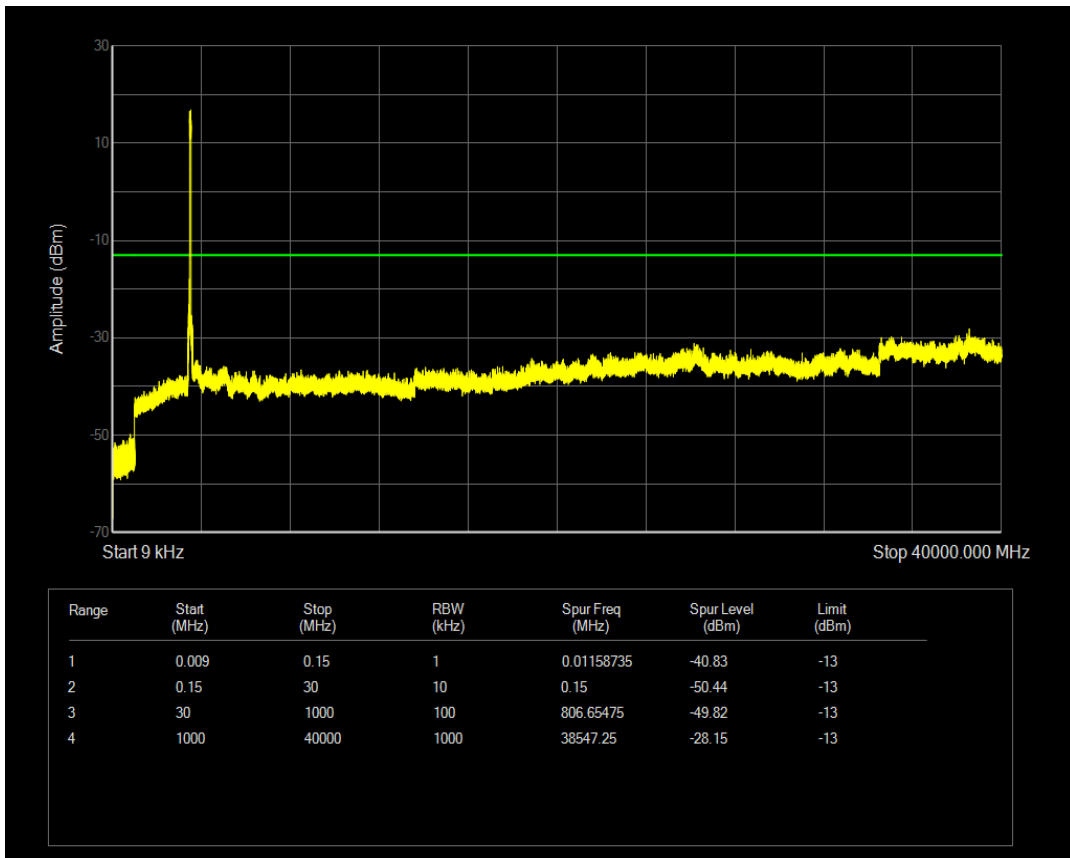
n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=633334 RB=1@0



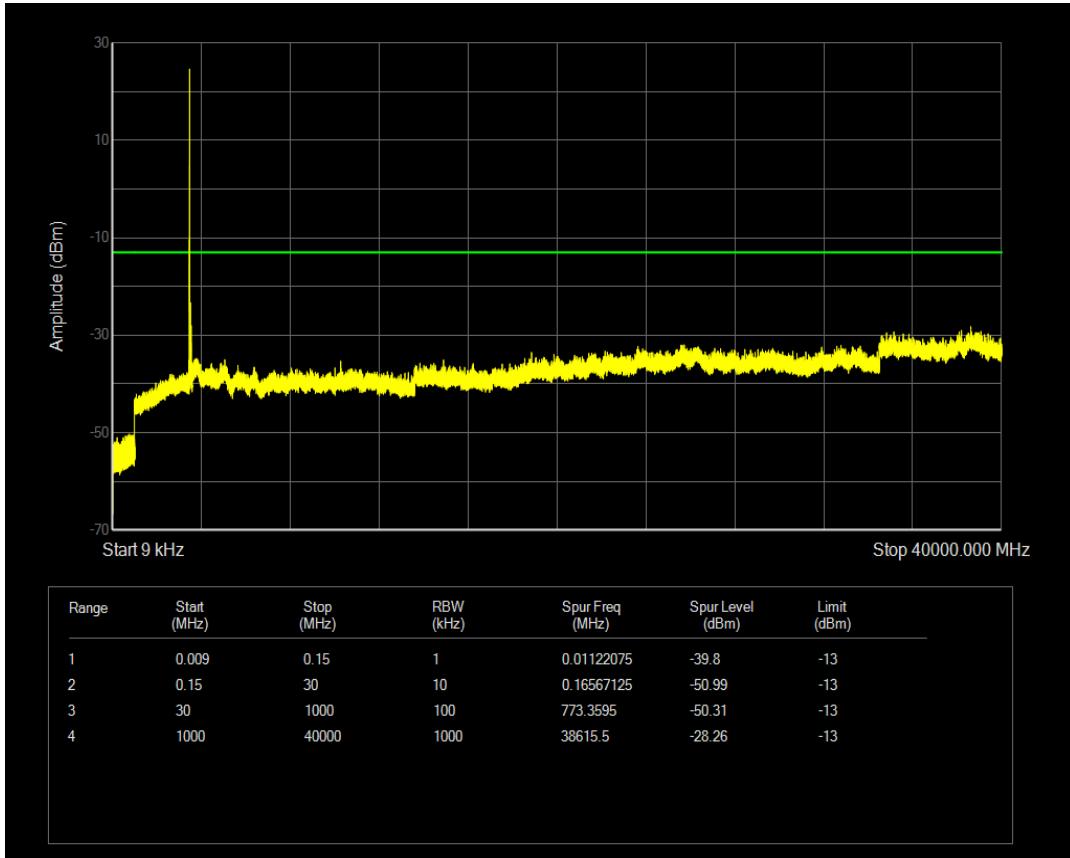
n78(3450-3550) SCS=30kHz DFT_QPSK BW=70MHz Channel=633334 RB=1@188



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