

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(3700-3800)	30	70	649000	90@45	DFT_BPSK	27.38	-0.3	27.08	30	PASS
n78(3700-3800)	30	70	649000	1@1	DFT_BPSK	26.93	-0.3	26.63	30	PASS
n78(3700-3800)	30	70	649000	1@187	DFT_BPSK	26.75	-0.3	26.45	30	PASS
n78(3700-3800)	30	70	649000	90@45	DFT_QPSK	27.42	-0.3	27.12	30	PASS
n78(3700-3800)	30	70	649000	1@1	DFT_QPSK	26.82	-0.3	26.52	30	PASS
n78(3700-3800)	30	70	649000	1@187	DFT_QPSK	26.65	-0.3	26.35	30	PASS
n78(3700-3800)	30	70	649000	90@45	DFT_QAM16	26.38	-0.3	26.08	30	PASS
n78(3700-3800)	30	70	649000	1@1	DFT_QAM16	25.95	-0.3	25.65	30	PASS
n78(3700-3800)	30	70	649000	1@187	DFT_QAM16	25.82	-0.3	25.52	30	PASS
n78(3700-3800)	30	70	649000	90@45	DFT_QAM64	24.92	-0.3	24.62	30	PASS
n78(3700-3800)	30	70	649000	1@1	DFT_QAM64	24.61	-0.3	24.31	30	PASS
n78(3700-3800)	30	70	649000	1@187	DFT_QAM64	24.41	-0.3	24.11	30	PASS
n78(3700-3800)	30	70	649000	95@47	CP_QPSK	25.81	-0.3	25.51	30	PASS
n78(3700-3800)	30	70	649000	1@1	CP_QPSK	25.29	-0.3	24.99	30	PASS
n78(3700-3800)	30	70	649000	1@187	CP_QPSK	25.17	-0.3	24.87	30	PASS
n78(3700-3800)	30	70	649000	95@47	CP_QAM16	25.38	-0.3	25.08	30	PASS
n78(3700-3800)	30	70	649000	1@1	CP_QAM16	25.00	-0.3	24.70	30	PASS
n78(3700-3800)	30	70	649000	1@187	CP_QAM16	24.89	-0.3	24.59	30	PASS
n78(3700-3800)	30	70	649000	95@47	CP_QAM64	23.95	-0.3	23.65	30	PASS
n78(3700-3800)	30	70	649000	1@1	CP_QAM64	23.19	-0.3	22.89	30	PASS
n78(3700-3800)	30	70	649000	1@187	CP_QAM64	23.16	-0.3	22.86	30	PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	27.36	-0.3	27.06	30	PASS
n78(3700-3800)	30	70	650000	1@1	DFT_BPSK	26.92	-0.3	26.62	30	PASS
n78(3700-3800)	30	70	650000	1@187	DFT_BPSK	26.81	-0.3	26.51	30	PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	27.33	-0.3	27.03	30	PASS
n78(3700-3800)	30	70	650000	1@1	DFT_QPSK	26.84	-0.3	26.54	30	PASS
n78(3700-3800)	30	70	650000	1@187	DFT_QPSK	26.53	-0.3	26.23	30	PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QAM16	26.29	-0.3	25.99	30	PASS
n78(3700-3800)	30	70	650000	1@1	DFT_QAM16	25.97	-0.3	25.67	30	PASS
n78(3700-3800)	30	70	650000	1@187	DFT_QAM16	25.80	-0.3	25.50	30	PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QAM64	24.80	-0.3	24.50	30	PASS
n78(3700-3800)	30	70	650000	1@1	DFT_QAM64	24.61	-0.3	24.31	30	PASS
n78(3700-3800)	30	70	650000	1@187	DFT_QAM64	24.42	-0.3	24.12	30	PASS
n78(3700-3800)	30	70	650000	95@47	CP_QPSK	25.73	-0.3	25.43	30	PASS
n78(3700-3800)	30	70	650000	1@1	CP_QPSK	25.33	-0.3	25.03	30	PASS
n78(3700-3800)	30	70	650000	1@187	CP_QPSK	25.17	-0.3	24.87	30	PASS

n78(3700-3800)	30	70	650000	95@47	CP_QAM16	25.28	-0.3	24.98	30	PASS
n78(3700-3800)	30	70	650000	1@1	CP_QAM16	24.98	-0.3	24.68	30	PASS
n78(3700-3800)	30	70	650000	1@187	CP_QAM16	24.82	-0.3	24.52	30	PASS
n78(3700-3800)	30	70	650000	95@47	CP_QAM64	23.89	-0.3	23.59	30	PASS
n78(3700-3800)	30	70	650000	1@1	CP_QAM64	23.21	-0.3	22.91	30	PASS
n78(3700-3800)	30	70	650000	1@187	CP_QAM64	23.12	-0.3	22.82	30	PASS
n78(3700-3800)	30	70	651000	90@45	DFT_BPSK	27.18	-0.3	26.88	30	PASS
n78(3700-3800)	30	70	651000	1@1	DFT_BPSK	26.93	-0.3	26.63	30	PASS
n78(3700-3800)	30	70	651000	1@187	DFT_BPSK	26.75	-0.3	26.45	30	PASS
n78(3700-3800)	30	70	651000	90@45	DFT_QPSK	27.23	-0.3	26.93	30	PASS
n78(3700-3800)	30	70	651000	1@1	DFT_QPSK	26.80	-0.3	26.50	30	PASS
n78(3700-3800)	30	70	651000	1@187	DFT_QPSK	26.55	-0.3	26.25	30	PASS
n78(3700-3800)	30	70	651000	90@45	DFT_QAM16	26.16	-0.3	25.86	30	PASS
n78(3700-3800)	30	70	651000	1@1	DFT_QAM16	26.02	-0.3	25.72	30	PASS
n78(3700-3800)	30	70	651000	1@187	DFT_QAM16	25.86	-0.3	25.56	30	PASS
n78(3700-3800)	30	70	651000	90@45	DFT_QAM64	24.68	-0.3	24.38	30	PASS
n78(3700-3800)	30	70	651000	1@1	DFT_QAM64	24.59	-0.3	24.29	30	PASS
n78(3700-3800)	30	70	651000	1@187	DFT_QAM64	24.43	-0.3	24.13	30	PASS
n78(3700-3800)	30	70	651000	95@47	CP_QPSK	25.55	-0.3	25.25	30	PASS
n78(3700-3800)	30	70	651000	1@1	CP_QPSK	25.29	-0.3	24.99	30	PASS
n78(3700-3800)	30	70	651000	1@187	CP_QPSK	25.15	-0.3	24.85	30	PASS
n78(3700-3800)	30	70	651000	95@47	CP_QAM16	25.19	-0.3	24.89	30	PASS
n78(3700-3800)	30	70	651000	1@1	CP_QAM16	25.04	-0.3	24.74	30	PASS
n78(3700-3800)	30	70	651000	1@187	CP_QAM16	24.84	-0.3	24.54	30	PASS
n78(3700-3800)	30	70	651000	95@47	CP_QAM64	23.78	-0.3	23.48	30	PASS
n78(3700-3800)	30	70	651000	1@1	CP_QAM64	23.24	-0.3	22.94	30	PASS
n78(3700-3800)	30	70	651000	1@187	CP_QAM64	23.11	-0.3	22.81	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(3700-3800)	30	70	650000	90@45	DFT_BPSK	3.87	-18.73	0.00	Within authorized band for 5G NR n78	PASS
n78(3700-3800)	30	70	650000	1@1	DFT_BPSK	3.45	-21.93	-0.01		PASS
n78(3700-3800)	30	70	650000	1@187	DFT_BPSK	4.45	-19.88	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	3.87	-22.55	-0.01		PASS
n78(3700-3800)	30	70	650000	1@1	DFT_QPSK	3.45	-17.61	0.00		PASS
n78(3700-3800)	30	70	650000	1@187	DFT_QPSK	4.45	-24.42	-0.01		PASS

Note: Only the worst case shown in the report.

NV:

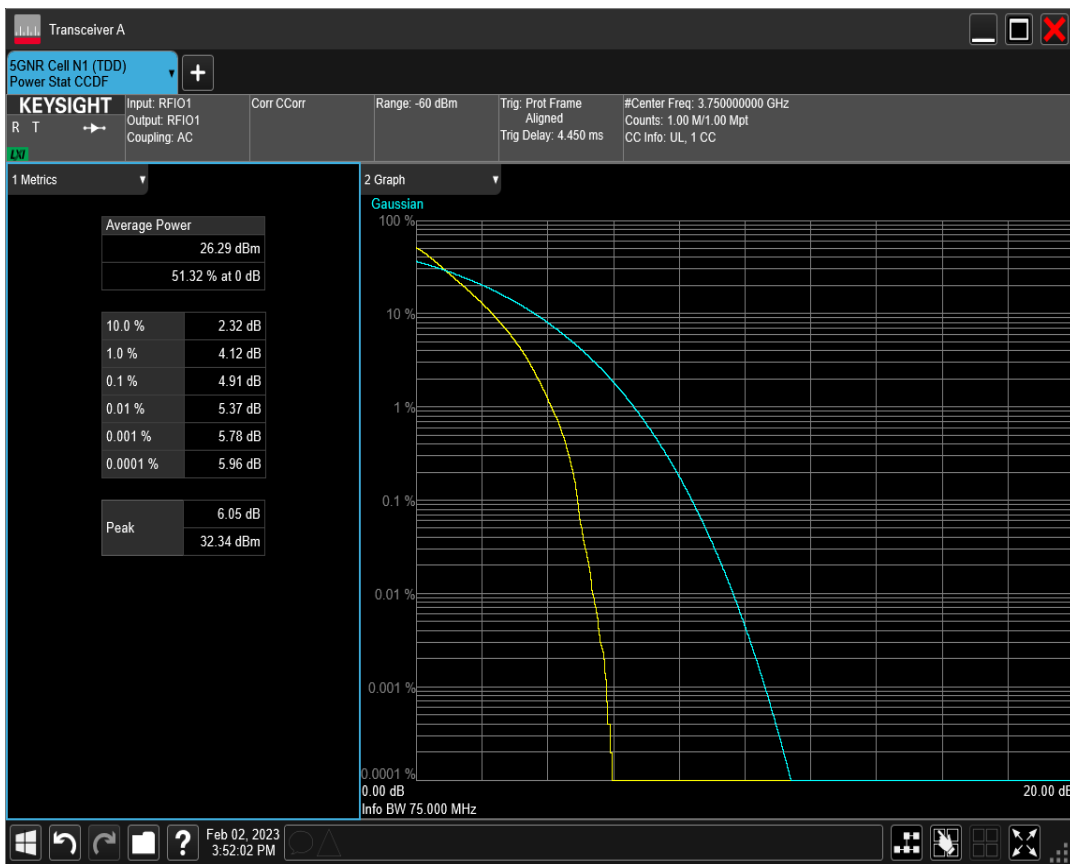
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Voltage (Vdc)	Result(Hz)	Result (ppm)	Limit (ppm)	Verdict
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	-30	-26.55	-0.01	Within authorized band for 5G NR n78	PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	-20	-26.99	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	-10	-23.52	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	0	-21.66	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	10	-24.98	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	20	-24.30	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	30	-25.05	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	40	-19.57	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	50	-22.04	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	-30	-23.48	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	-20	-21.57	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	-10	-22.77	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	0	-21.51	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	10	-23.91	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	20	-22.53	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	30	-24.38	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	40	-26.30	-0.01	PASS	
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	50	-24.90	-0.01	PASS	

Note: Only the worst case shown in the report.

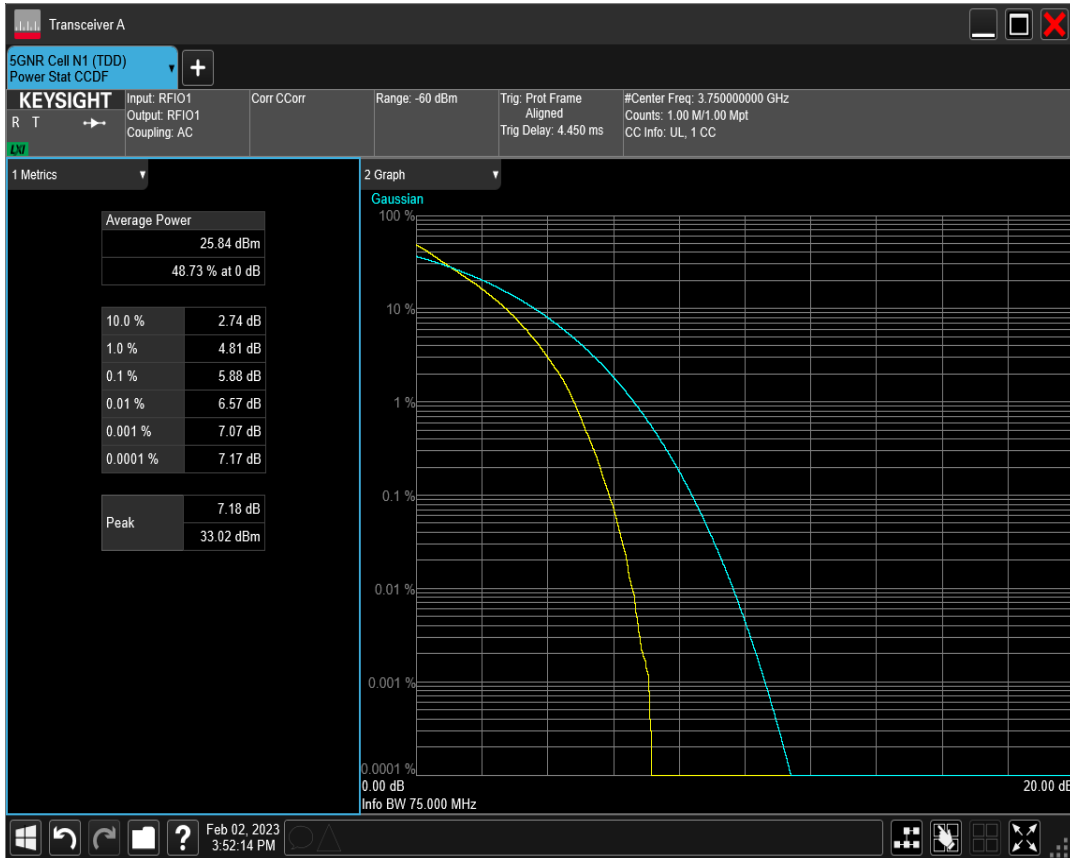
3 Peak-to-Average Ratio for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Result (dB)	high Limit (dB)	Verdict
n78(3700-3800)	30	70	650000	180@0	DFT_BPSK	4.91	13	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QPSK	5.88	13	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QAM16	6.66	13	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QAM64	6.81	13	PASS

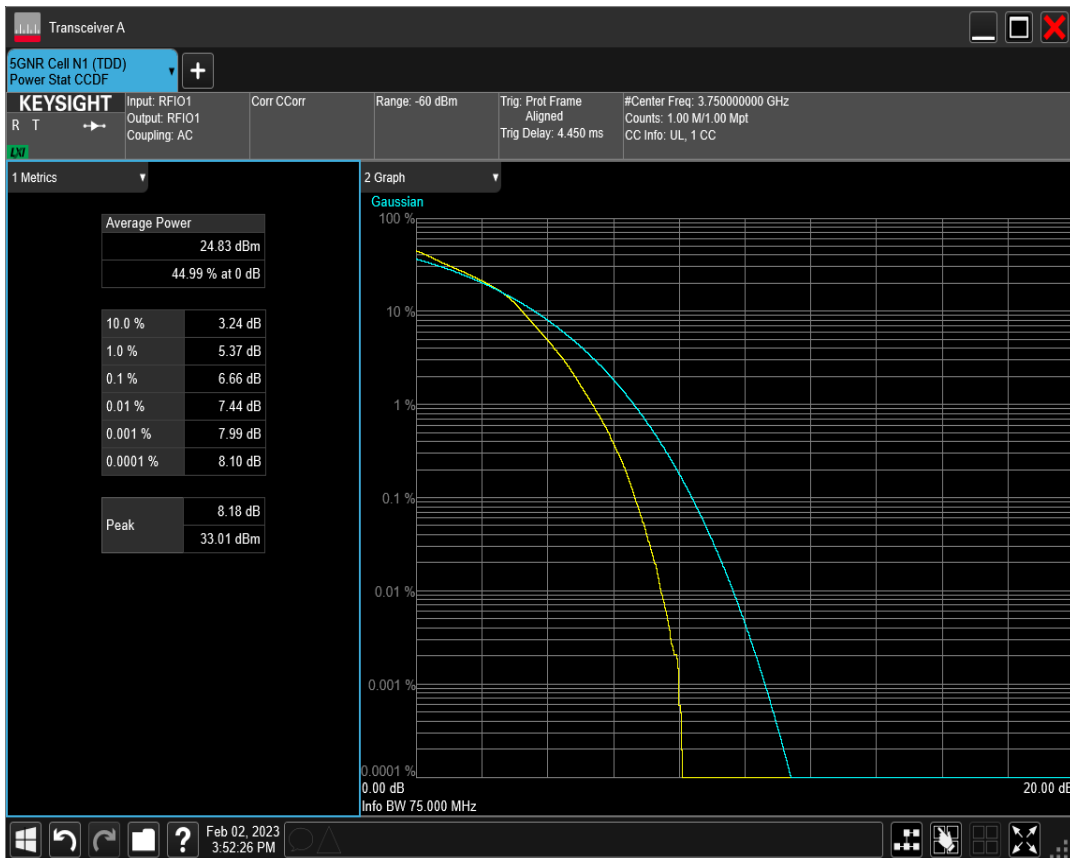
n78(3700-3800) SCS=30kHz DFT_BPSK BW=70MHz Channel=650000 RB=180@0



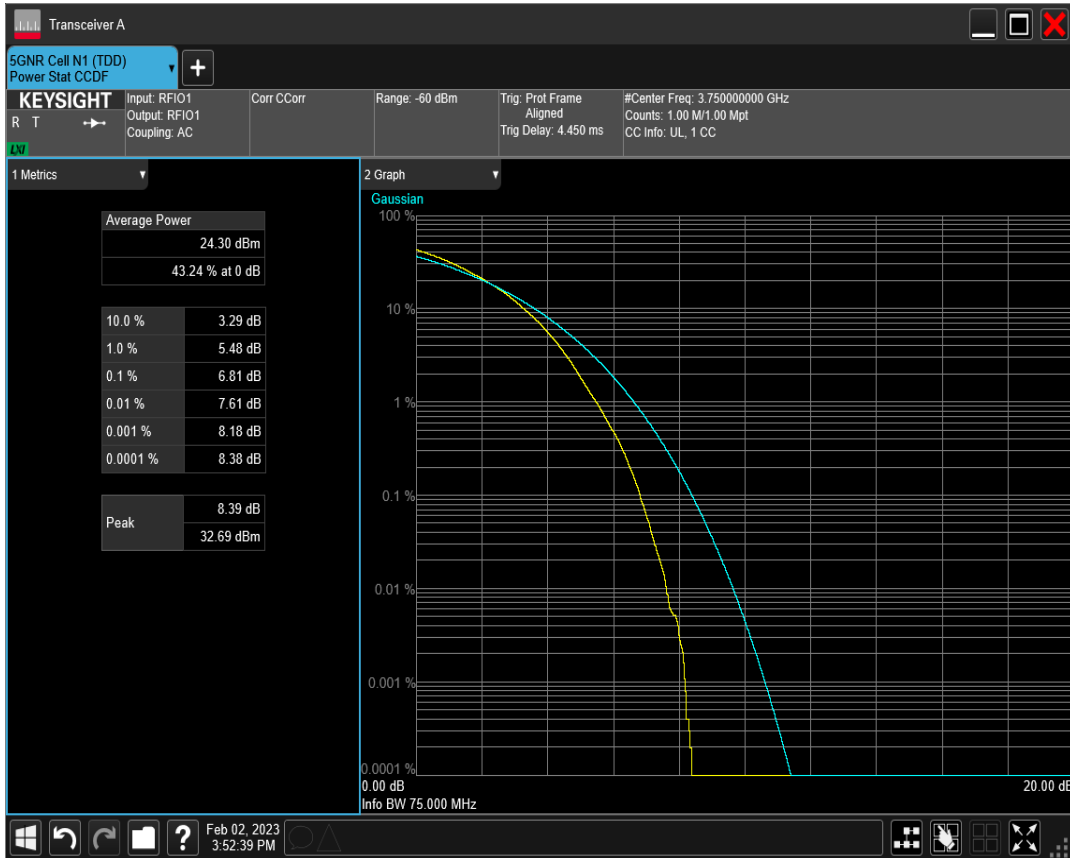
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=650000 RB=180@0



n78(3700-3800) SCS=30kHz DFT_QAM16 BW=70MHz Channel=650000 RB=180@0



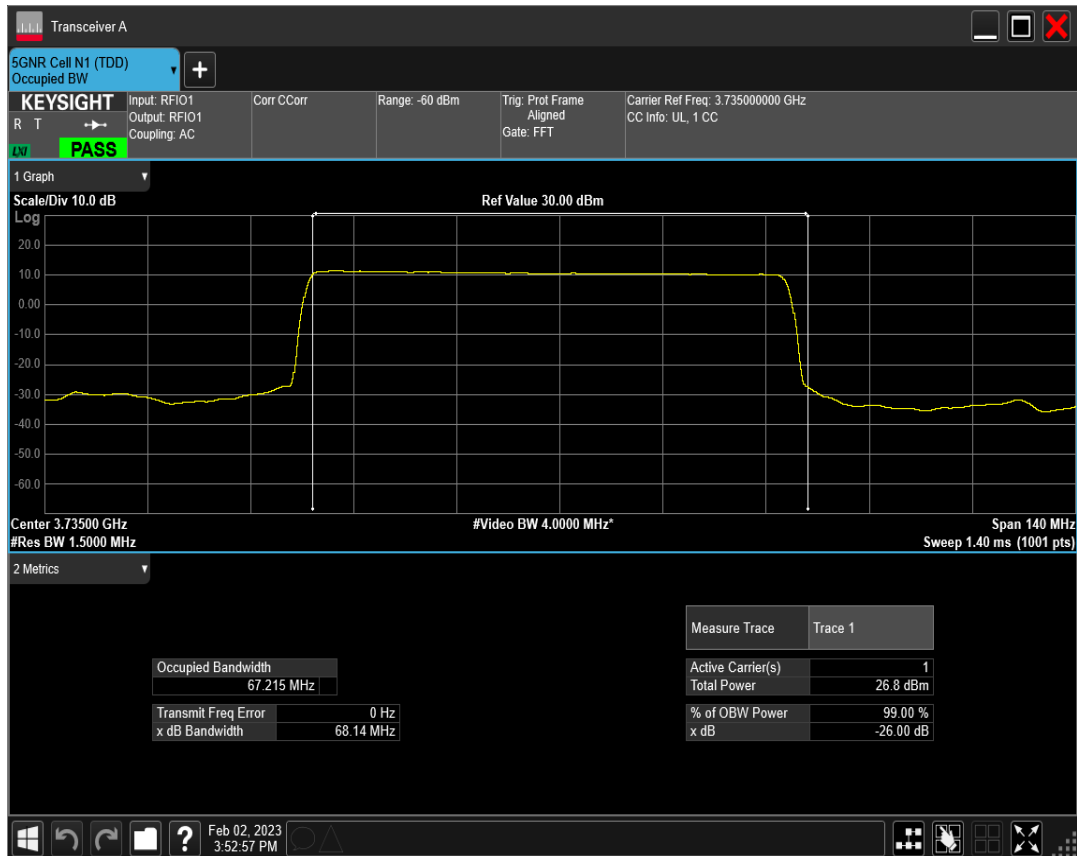
n78(3700-3800) SCS=30kHz DFT_QAM64 BW=70MHz Channel=650000 RB=180@0



4 Occupied bandwidth for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
n78(3700-3800)	30	70	649000	180@0	DFT_BPSK	67.220	68.140	PASS
n78(3700-3800)	30	70	649000	180@0	DFT_QPSK	67.220	68.170	PASS
n78(3700-3800)	30	70	649000	180@0	DFT_QAM16	67.230	68.130	PASS
n78(3700-3800)	30	70	649000	180@0	DFT_QAM64	67.210	68.170	PASS
n78(3700-3800)	30	70	649000	189@0	CP_QPSK	67.820	71.430	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_BPSK	67.230	68.160	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QPSK	67.050	68.170	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QAM16	67.040	68.180	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QAM64	67.040	68.150	PASS
n78(3700-3800)	30	70	650000	189@0	CP_QPSK	67.810	71.430	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_BPSK	67.230	68.160	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_QPSK	67.210	68.170	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_QAM16	67.040	68.180	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_QAM64	67.060	68.180	PASS
n78(3700-3800)	30	70	651000	189@0	CP_QPSK	67.820	71.430	PASS

n78(3700-3800) SCS=30kHz DFT_BPSK BW=70MHz Channel=649000 RB=180@0



n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=649000 RB=180@0



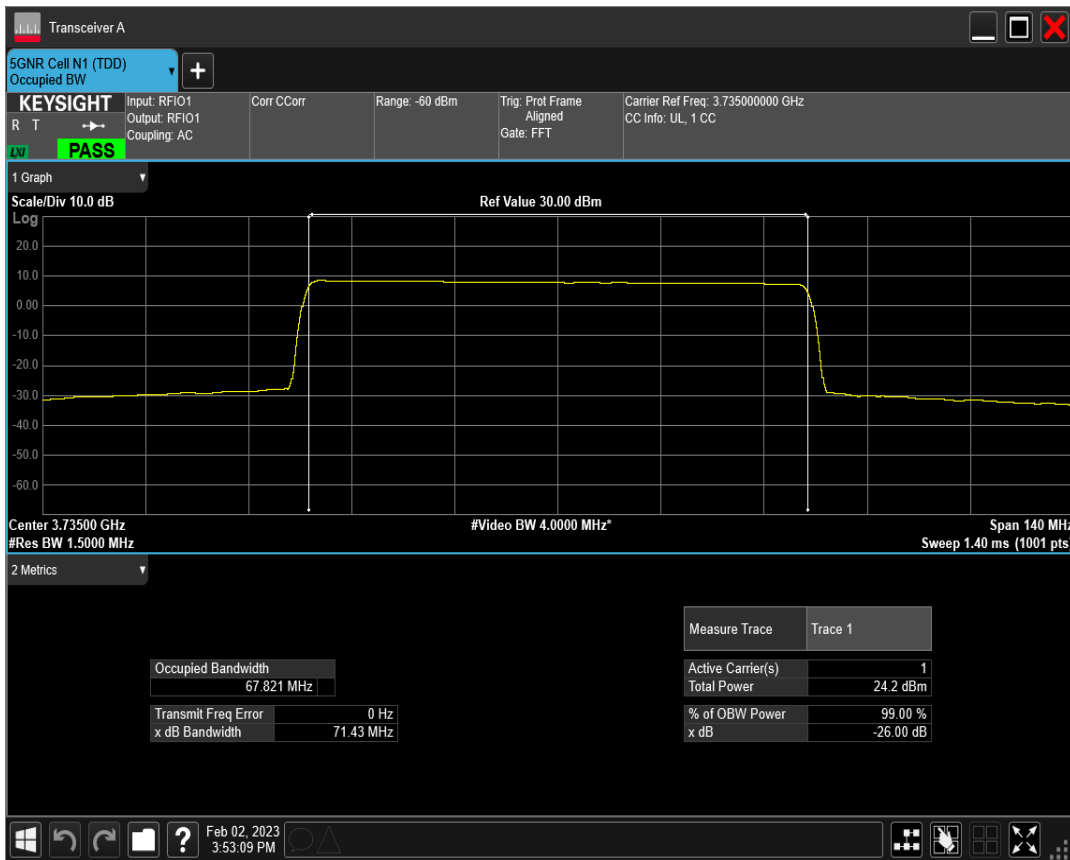
n78(3700-3800) SCS=30kHz DFT_QAM16 BW=70MHz Channel=649000 RB=180@0



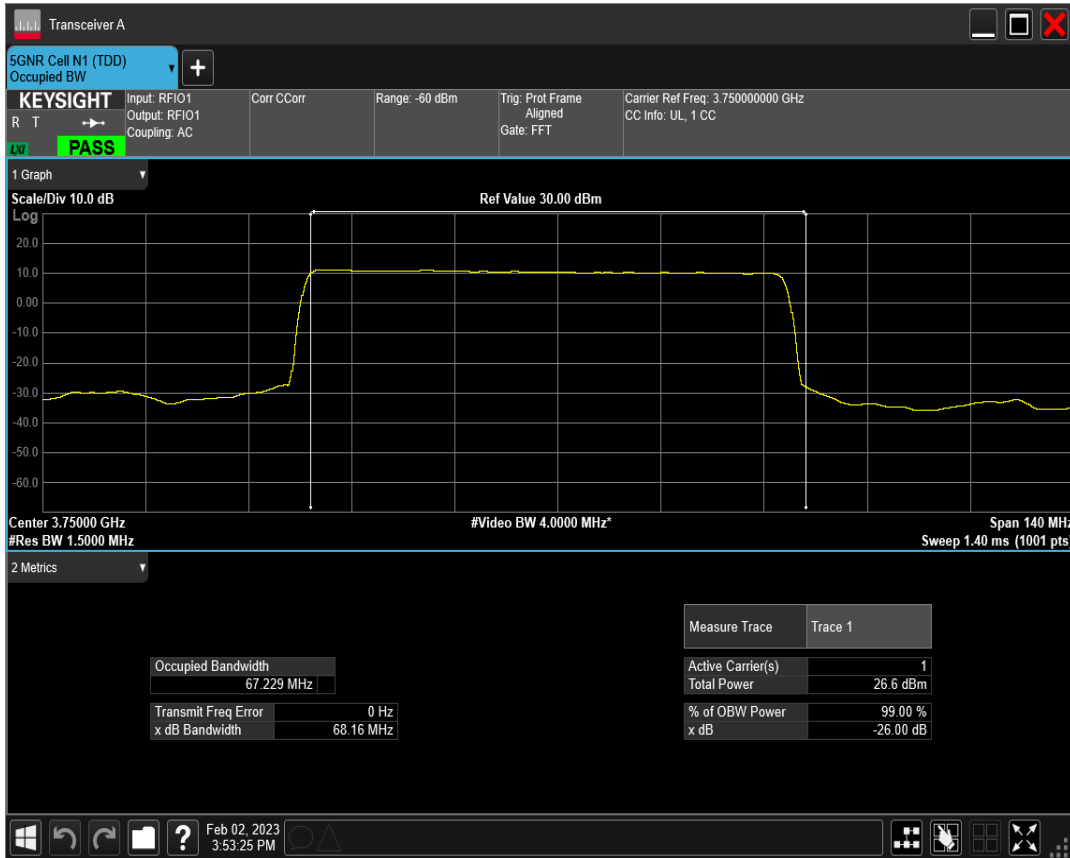
n78(3700-3800) SCS=30kHz DFT_QAM64 BW=70MHz Channel=649000 RB=180@0



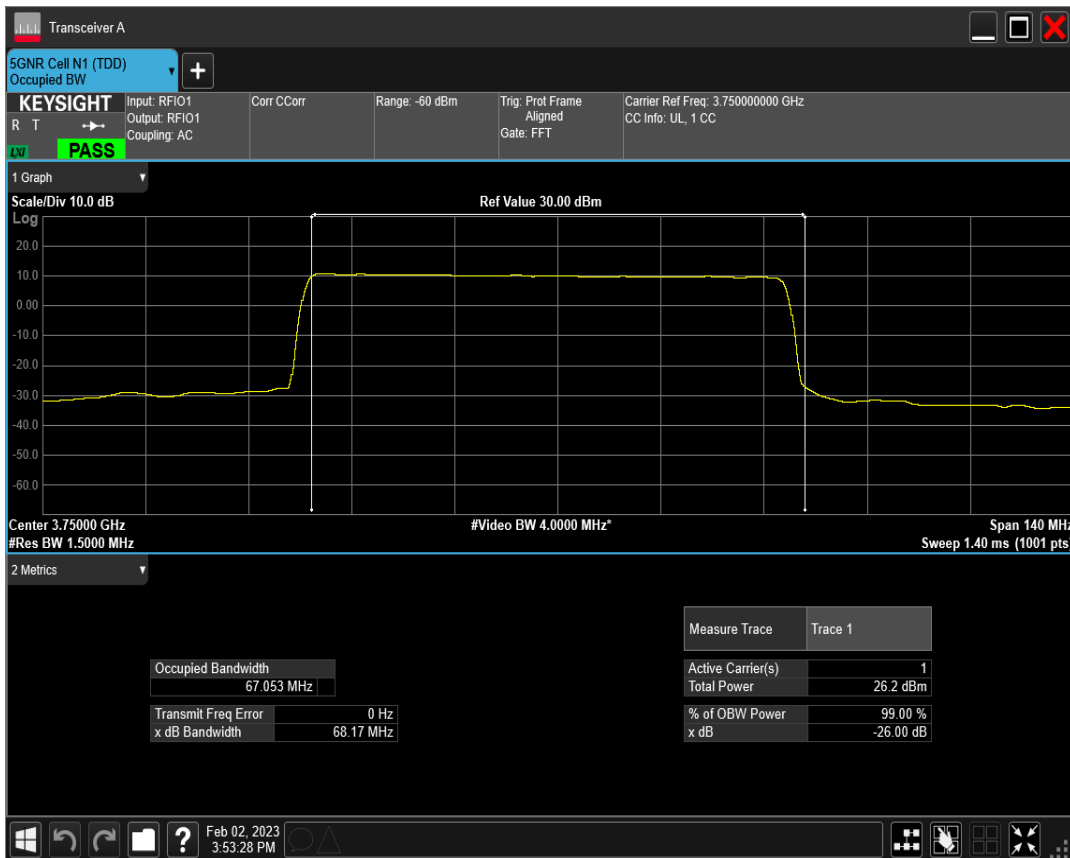
n78(3700-3800) SCS=30kHz CP_QPSK BW=70MHz Channel=649000 RB=189@0



n78(3700-3800) SCS=30kHz DFT_BPSK BW=70MHz Channel=650000 RB=180@0



n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=650000 RB=180@0



n78(3700-3800) SCS=30kHz DFT_QAM16 BW=70MHz Channel=650000 RB=180@0



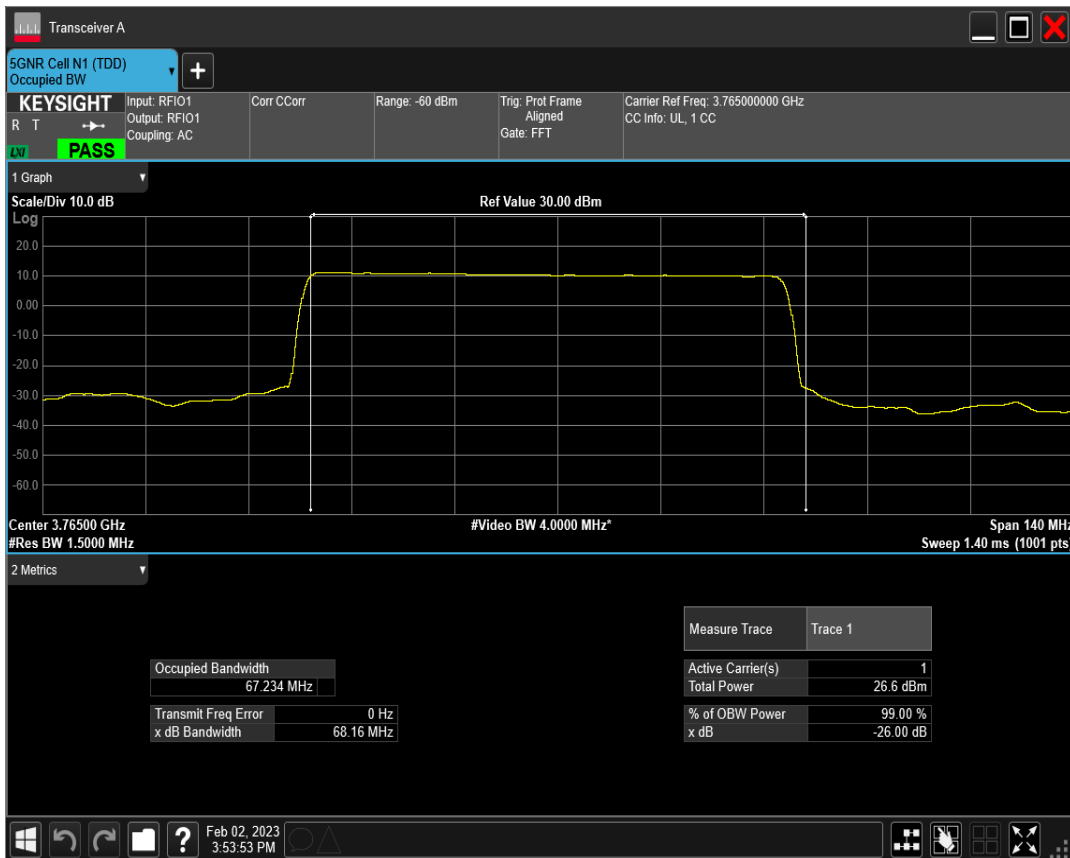
n78(3700-3800) SCS=30kHz DFT_QAM64 BW=70MHz Channel=650000 RB=180@0



n78(3700-3800) SCS=30kHz CP_QPSK BW=70MHz Channel=650000 RB=189@0



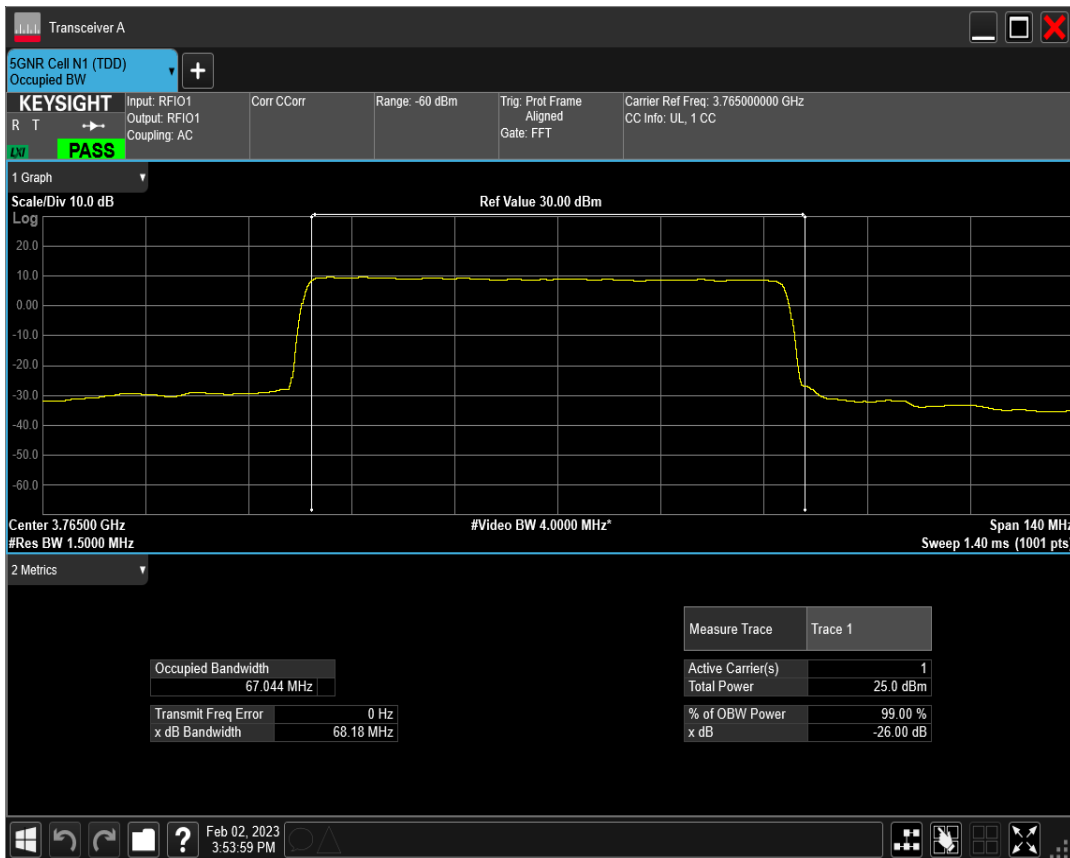
n78(3700-3800) SCS=30kHz DFT_BPSK BW=70MHz Channel=651000 RB=180@0



n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=651000 RB=180@0



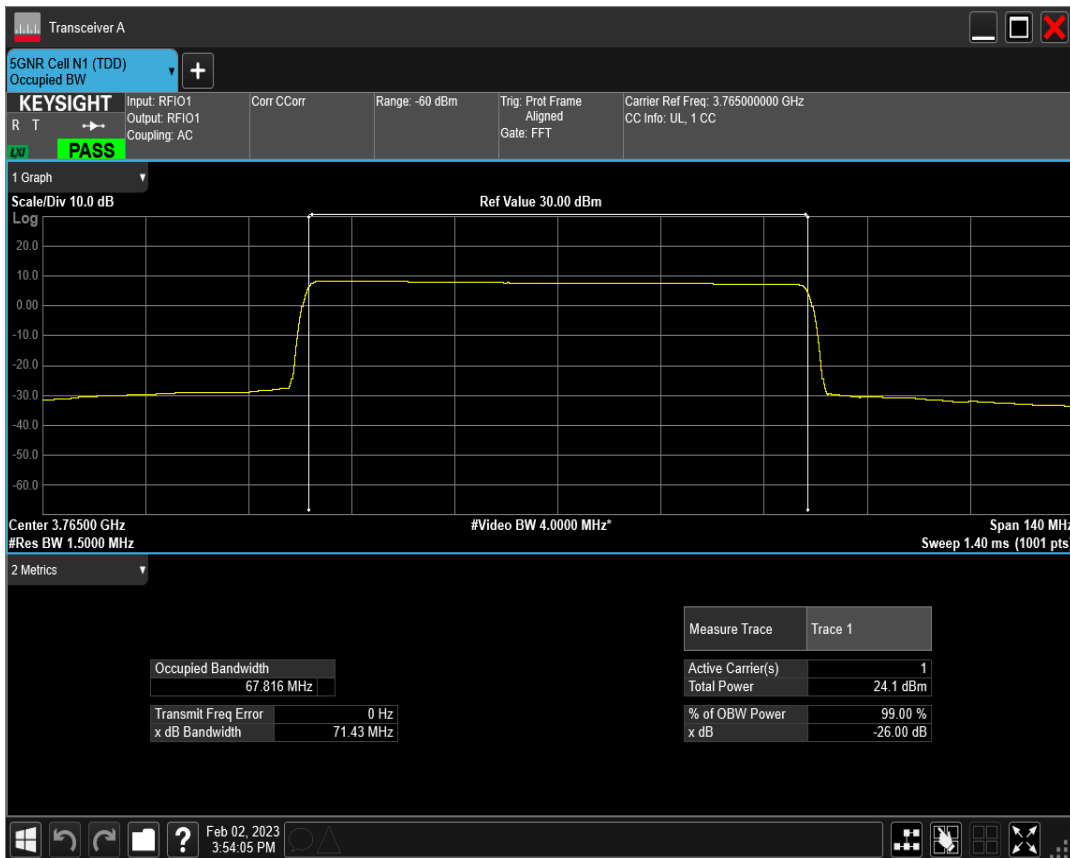
n78(3700-3800) SCS=30kHz DFT_QAM16 BW=70MHz Channel=651000 RB=180@0



n78(3700-3800) SCS=30kHz DFT_QAM64 BW=70MHz Channel=651000 RB=180@0



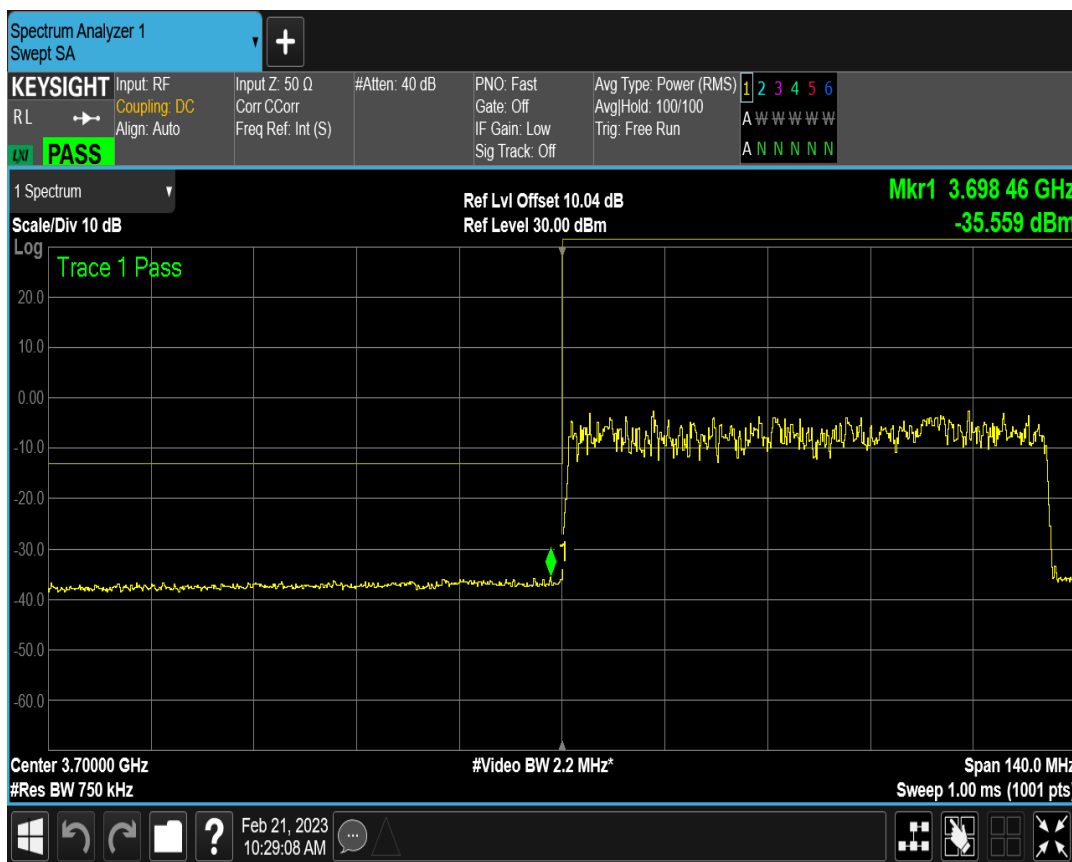
n78(3700-3800) SCS=30kHz CP_QPSK BW=70MHz Channel=651000 RB=189@0



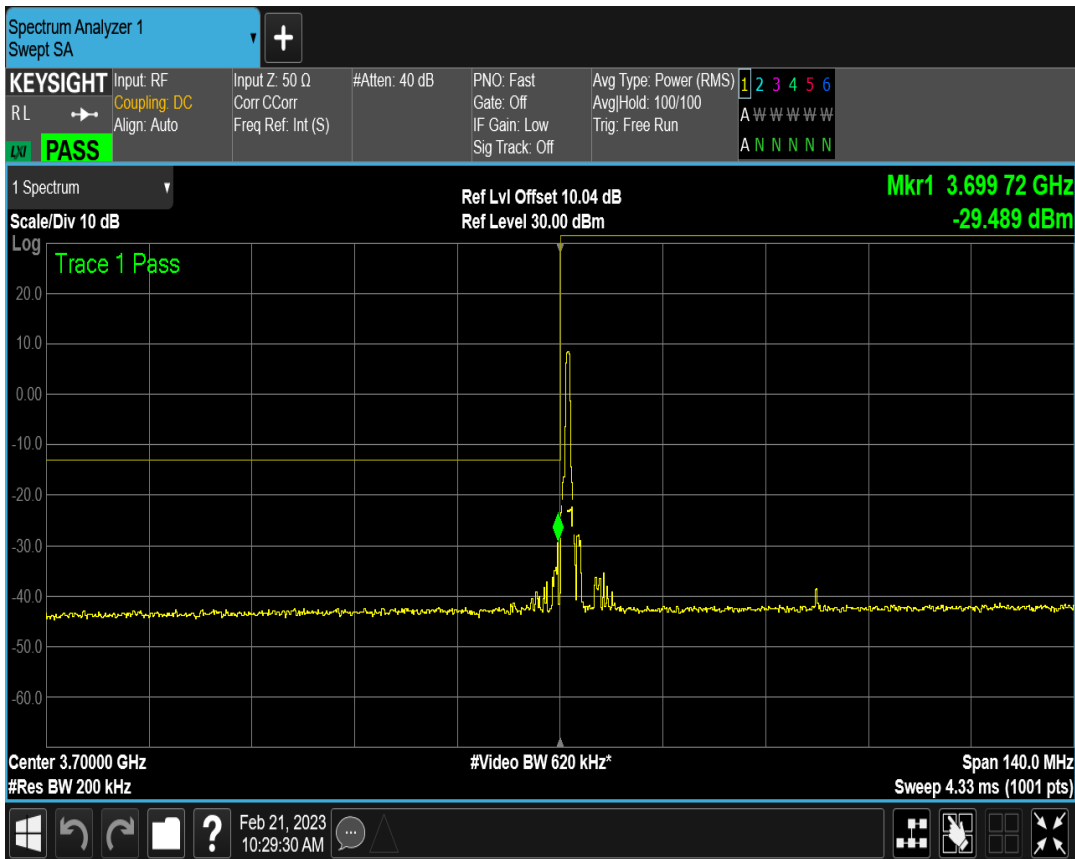
5 Band edge for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n78(3700-3800)	30	70	649000	180@0	DFT_QPSK	3698.46	-35.55	-13	PASS
n78(3700-3800)	30	70	649000	1@0	DFT_QPSK	3699.72	-29.48	-13	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_QPSK	3809.80	-35.24	-13	PASS
n78(3700-3800)	30	70	651000	1@188	DFT_QPSK	3800.00	-27.75	-13	PASS

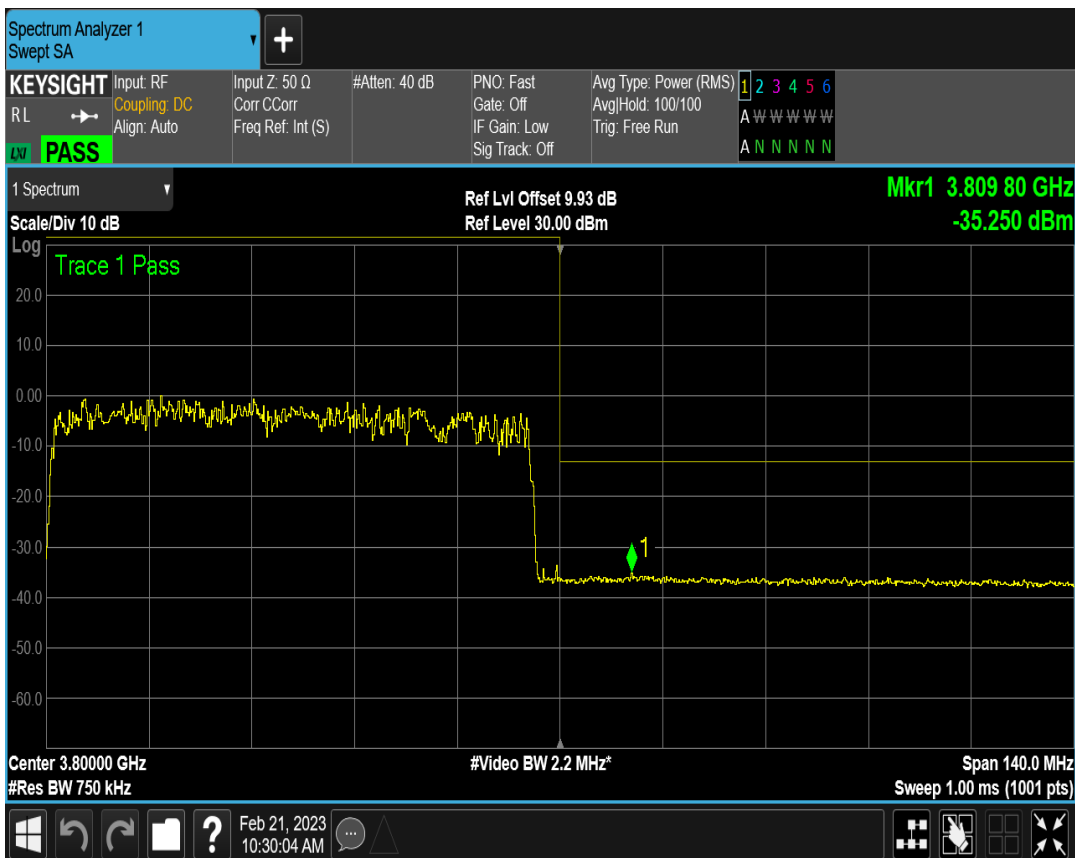
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=649000 RB=180@0



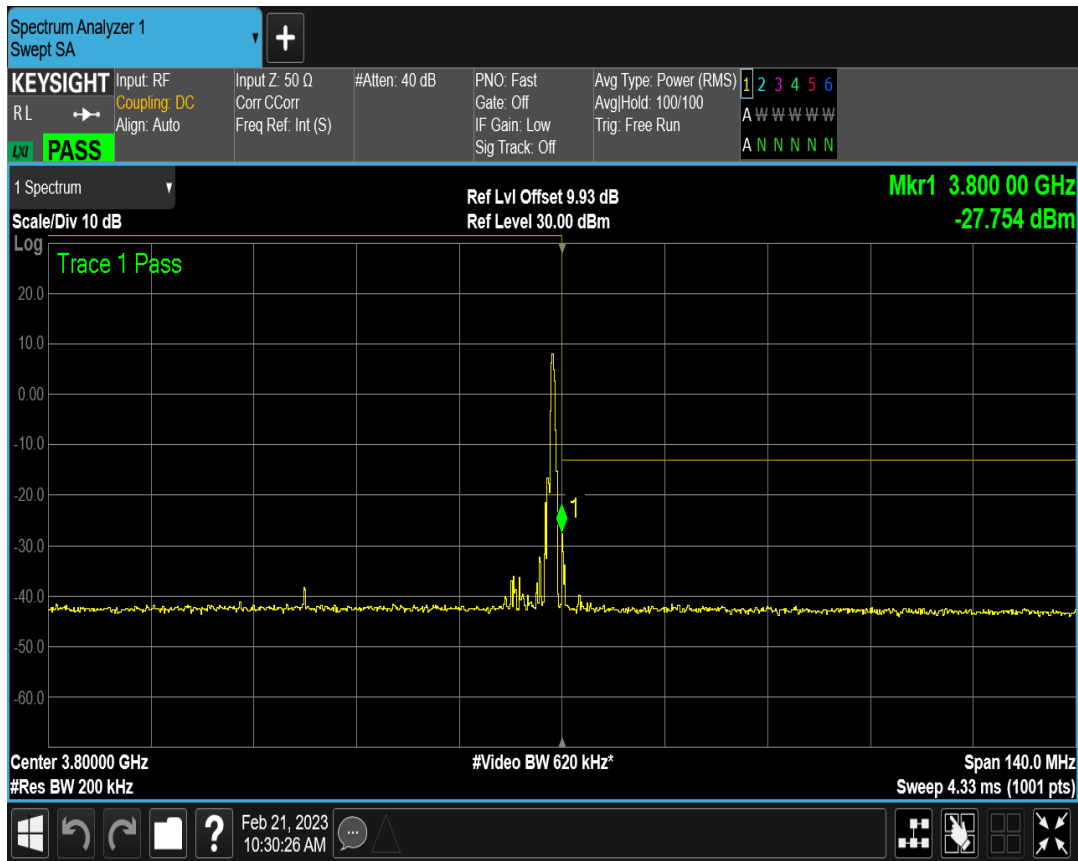
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=649000 RB=1@0



n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=651000 RB=180@0



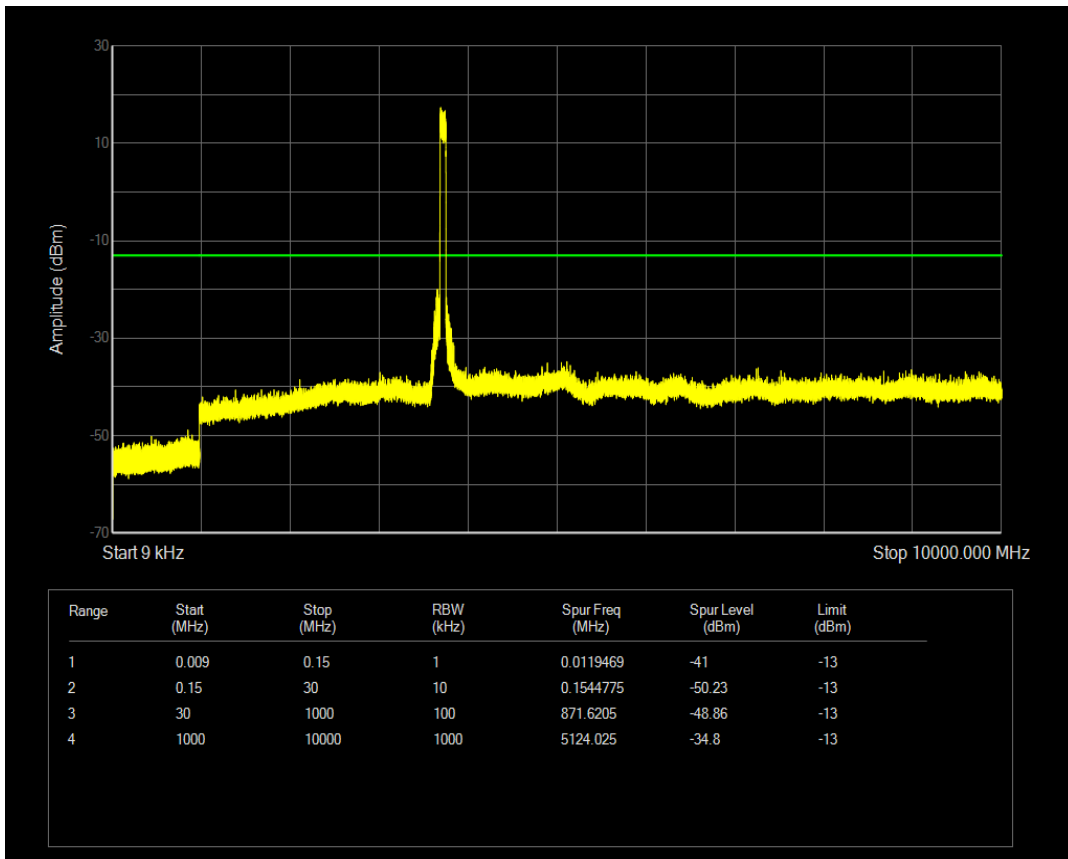
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=651000 RB=1@188



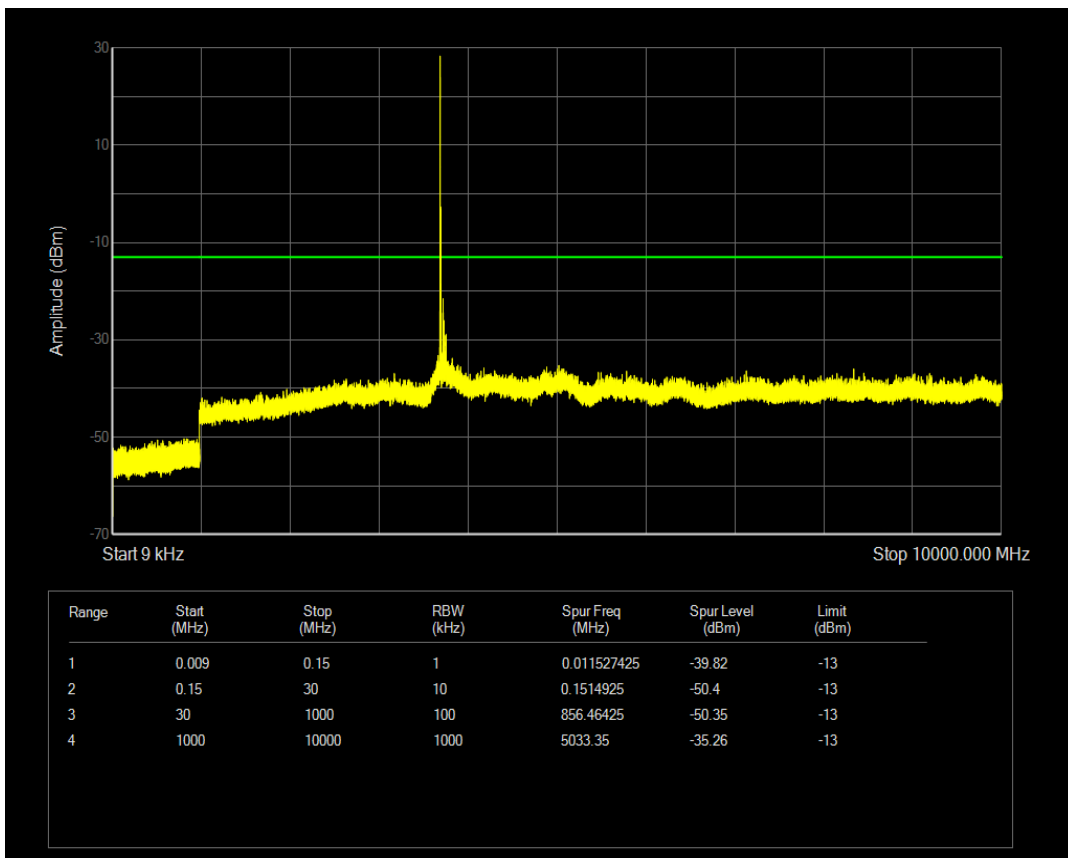
6 Out-of-band emissions for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n78(3700-3800)	30	70	649000	180@0	DFT_QPSK	5124.03	-34.80	-13	PASS
n78(3700-3800)	30	70	649000	1@0	DFT_QPSK	5033.35	-35.26	-13	PASS
n78(3700-3800)	30	70	649000	1@188	DFT_QPSK	5066.43	-35.88	-13	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QPSK	4872.93	-35.55	-13	PASS
n78(3700-3800)	30	70	650000	1@0	DFT_QPSK	4186.00	-35.02	-13	PASS
n78(3700-3800)	30	70	650000	1@188	DFT_QPSK	4966.08	-35.17	-13	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_QPSK	4855.38	-35.43	-13	PASS
n78(3700-3800)	30	70	651000	1@0	DFT_QPSK	4976.65	-35.15	-13	PASS
n78(3700-3800)	30	70	651000	1@188	DFT_QPSK	5053.38	-35.90	-13	PASS

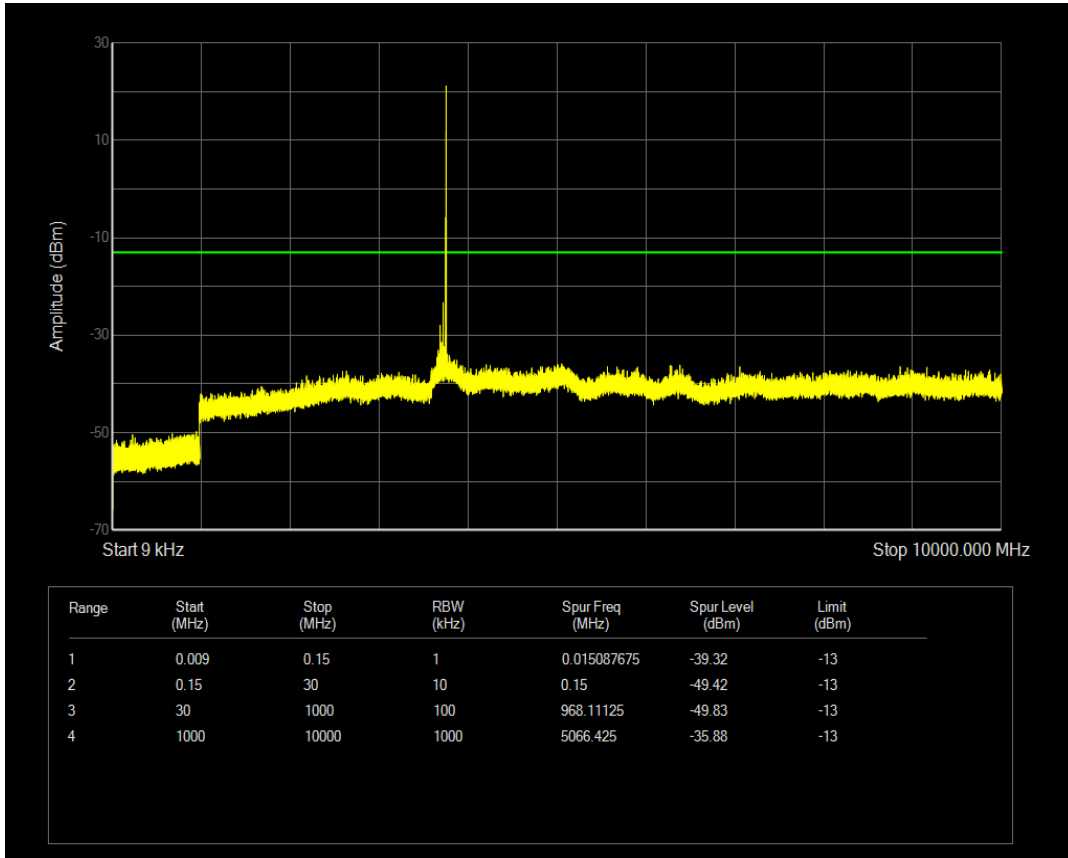
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=649000 RB=180@0



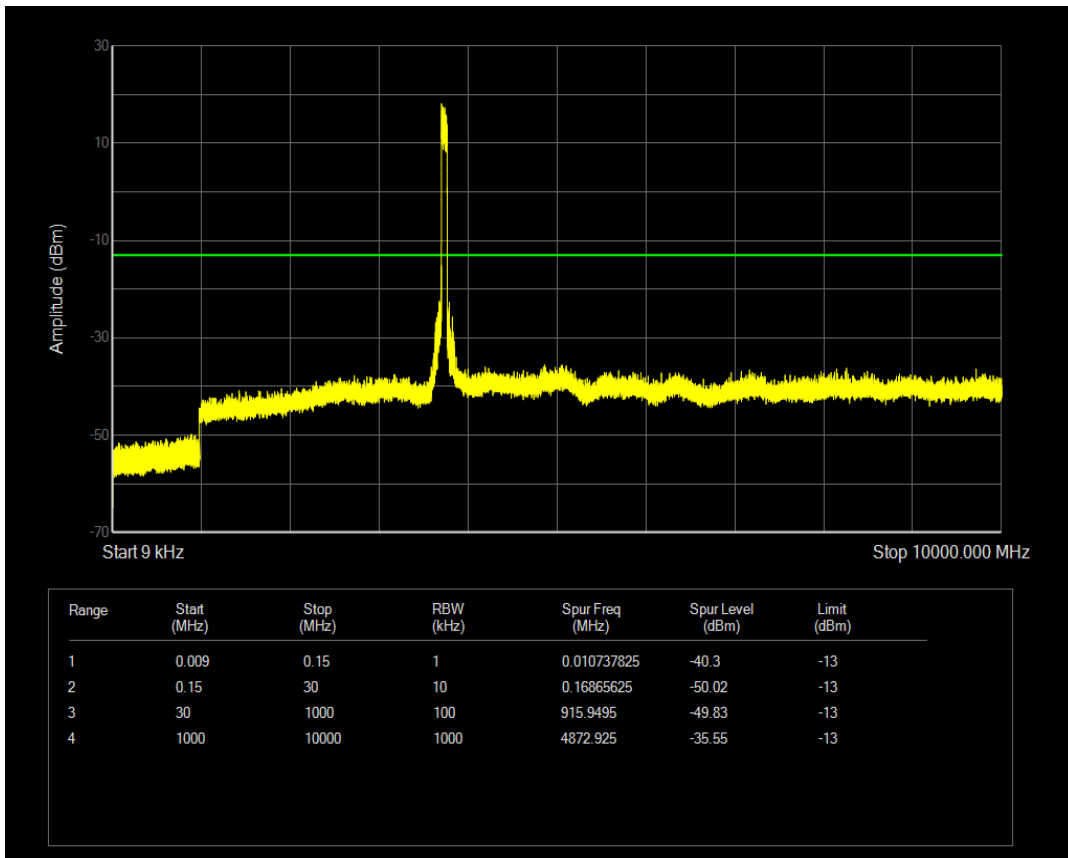
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=649000 RB=1@0



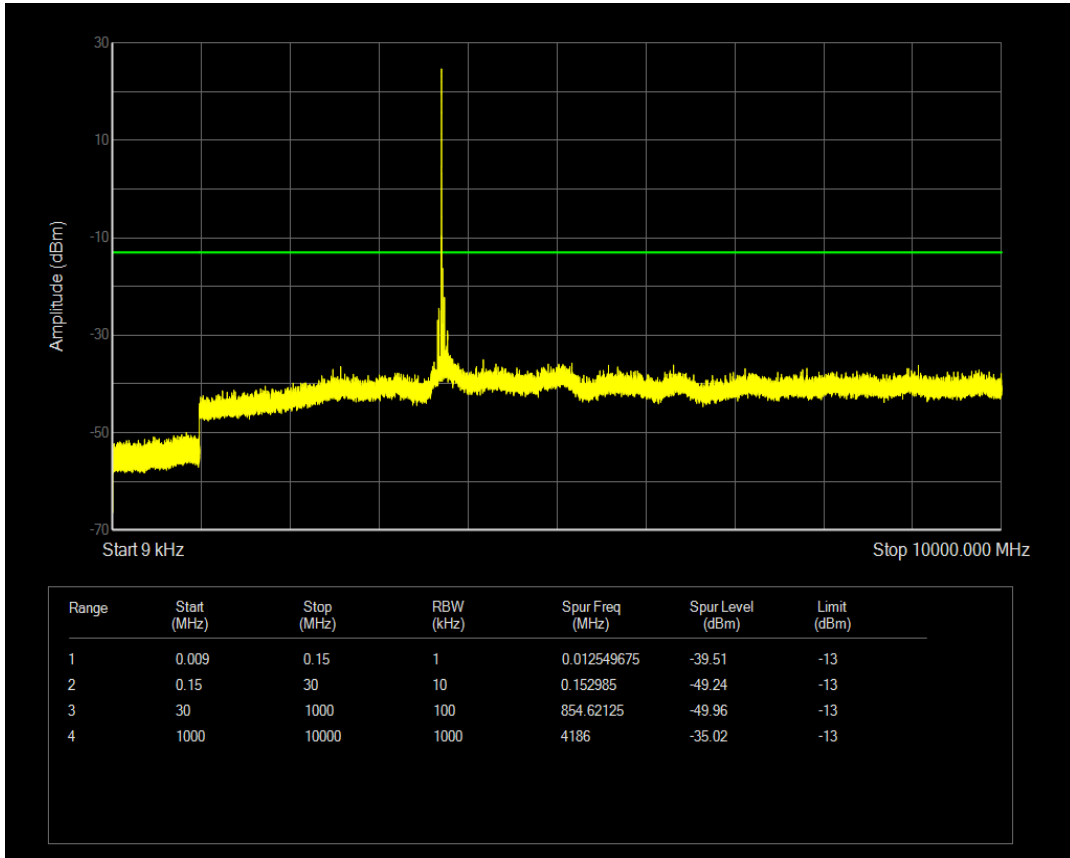
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=649000 RB=1@188



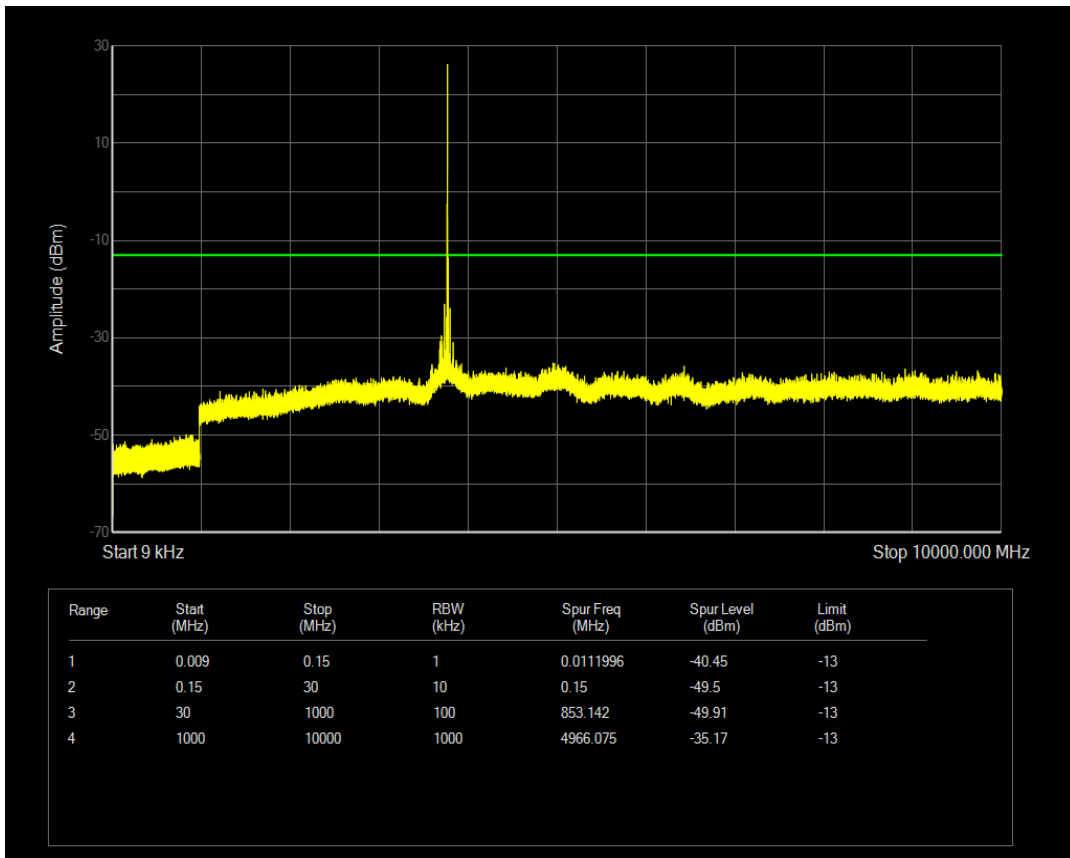
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=650000 RB=180@0



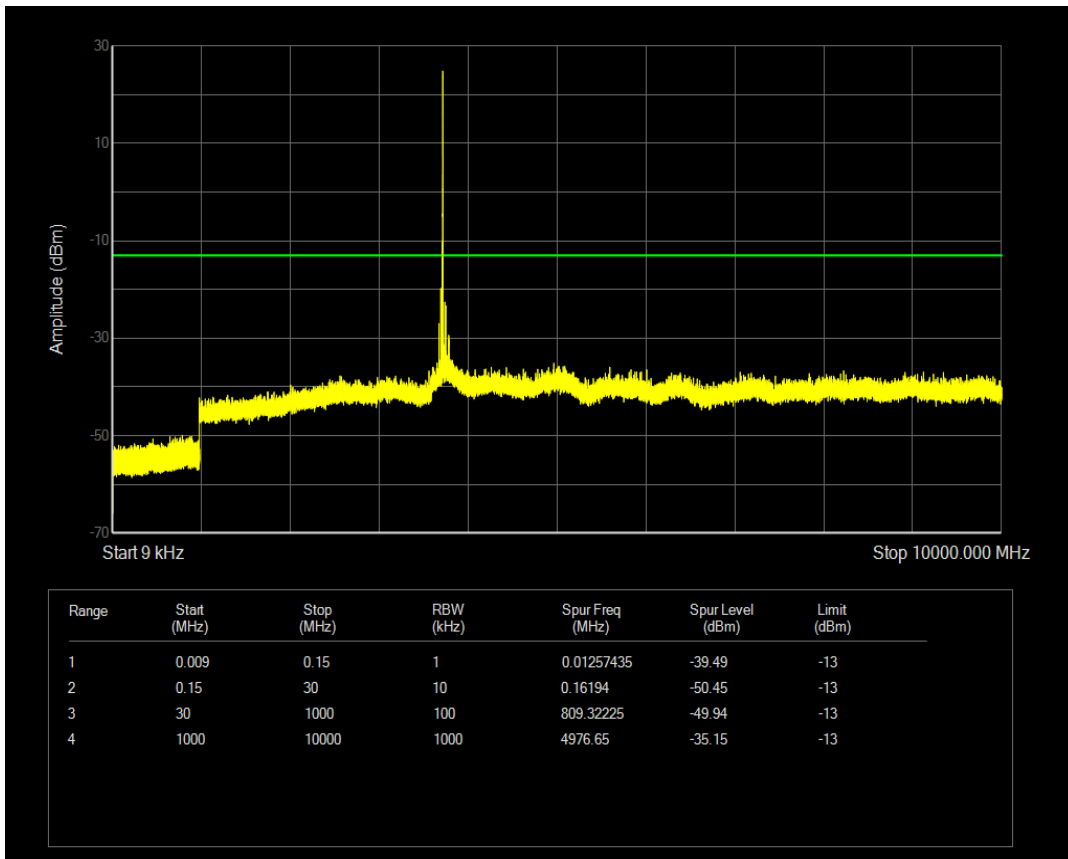
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=650000 RB=1@0



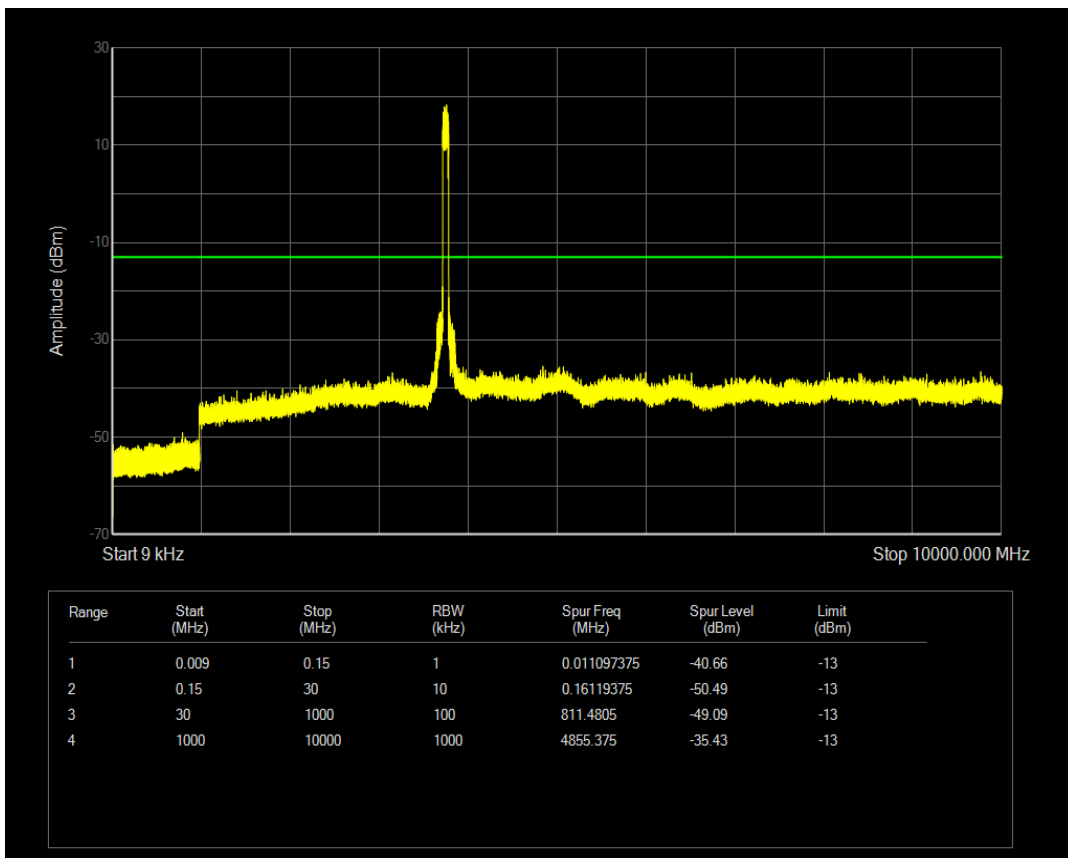
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=650000 RB=1@188



n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=651000 RB=1@0



n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=651000 RB=180@0



n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=651000 RB=1@188

