

1 Conducted output power for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)	Unflip EIRP (dBm)	Flip EIRP (dBm)	EIRP Limit (dBm)	Verdict
n78(3700-3800)	30	70	649000	90@45	DFT_BPSK	26.17	25.07	25.26	33.01	PASS
n78(3700-3800)	30	70	649000	1@1	DFT_BPSK	25.40	24.30	24.49	33.01	PASS
n78(3700-3800)	30	70	649000	1@187	DFT_BPSK	25.60	24.50	24.69	33.01	PASS
n78(3700-3800)	30	70	649000	90@45	DFT_QPSK	26.10	25.00	25.19	33.01	PASS
n78(3700-3800)	30	70	649000	1@1	DFT_QPSK	25.30	24.20	24.39	33.01	PASS
n78(3700-3800)	30	70	649000	1@187	DFT_QPSK	25.53	24.43	24.62	33.01	PASS
n78(3700-3800)	30	70	649000	90@45	DFT_QAM16	25.09	23.99	24.18	33.01	PASS
n78(3700-3800)	30	70	649000	1@1	DFT_QAM16	24.52	23.42	23.61	33.01	PASS
n78(3700-3800)	30	70	649000	1@187	DFT_QAM16	24.68	23.58	23.77	33.01	PASS
n78(3700-3800)	30	70	649000	90@45	DFT_QAM64	23.67	22.57	22.76	33.01	PASS
n78(3700-3800)	30	70	649000	1@1	DFT_QAM64	23.14	22.04	22.23	33.01	PASS
n78(3700-3800)	30	70	649000	1@187	DFT_QAM64	23.49	22.39	22.58	33.01	PASS
n78(3700-3800)	30	70	649000	90@45	DFT_QAM256	21.66	20.56	20.75	33.01	PASS
n78(3700-3800)	30	70	649000	1@1	DFT_QAM256	21.06	19.96	20.15	33.01	PASS
n78(3700-3800)	30	70	649000	1@187	DFT_QAM256	21.23	20.13	20.32	33.01	PASS
n78(3700-3800)	30	70	649000	95@47	CP_QPSK	24.65	23.55	23.74	33.01	PASS
n78(3700-3800)	30	70	649000	1@1	CP_QPSK	23.94	22.84	23.03	33.01	PASS
n78(3700-3800)	30	70	649000	1@187	CP_QPSK	24.14	23.04	23.23	33.01	PASS
n78(3700-3800)	30	70	649000	95@47	CP_QAM16	24.11	23.01	23.2	33.01	PASS
n78(3700-3800)	30	70	649000	1@1	CP_QAM16	23.65	22.55	22.74	33.01	PASS
n78(3700-3800)	30	70	649000	1@187	CP_QAM16	23.79	22.69	22.88	33.01	PASS
n78(3700-3800)	30	70	649000	95@47	CP_QAM64	22.62	21.52	21.71	33.01	PASS
n78(3700-3800)	30	70	649000	1@1	CP_QAM64	21.98	20.88	21.07	33.01	PASS
n78(3700-3800)	30	70	649000	1@187	CP_QAM64	22.17	21.07	21.26	33.01	PASS
n78(3700-3800)	30	70	649000	95@47	CP_QAM256	19.82	18.72	18.91	33.01	PASS
n78(3700-3800)	30	70	649000	1@1	CP_QAM256	19.57	18.47	18.66	33.01	PASS
n78(3700-3800)	30	70	649000	1@187	CP_QAM256	19.73	18.63	18.82	33.01	PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	26.12	25.02	25.21	33.01	PASS
n78(3700-3800)	30	70	650000	1@1	DFT_BPSK	25.76	24.66	24.85	33.01	PASS
n78(3700-3800)	30	70	650000	1@187	DFT_BPSK	25.61	24.51	24.7	33.01	PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	26.16	25.06	25.25	33.01	PASS
n78(3700-3800)	30	70	650000	1@1	DFT_QPSK	25.51	24.41	24.6	33.01	PASS
n78(3700-3800)	30	70	650000	1@187	DFT_QPSK	25.43	24.33	24.52	33.01	PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QAM16	25.14	24.04	24.23	33.01	PASS
n78(3700-3800)	30	70	650000	1@1	DFT_QAM16	25.04	23.94	24.13	33.01	PASS
n78(3700-3800)	30	70	650000	1@187	DFT_QAM16	24.61	23.51	23.7	33.01	PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QAM64	23.65	22.55	22.74	33.01	PASS
n78(3700-3800)	30	70	650000	1@1	DFT_QAM64	23.24	22.14	22.33	33.01	PASS

n78(3700-3800)	30	70	650000	1@187	DFT_QAM64	23.31	22.21	22.4	33.01	PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QAM256	21.61	20.51	20.7	33.01	PASS
n78(3700-3800)	30	70	650000	1@1	DFT_QAM256	21.23	20.13	20.32	33.01	PASS
n78(3700-3800)	30	70	650000	1@187	DFT_QAM256	21.22	20.12	20.31	33.01	PASS
n78(3700-3800)	30	70	650000	95@47	CP_QPSK	24.61	23.51	23.7	33.01	PASS
n78(3700-3800)	30	70	650000	1@1	CP_QPSK	24.20	23.10	23.29	33.01	PASS
n78(3700-3800)	30	70	650000	1@187	CP_QPSK	24.22	23.12	23.31	33.01	PASS
n78(3700-3800)	30	70	650000	95@47	CP_QAM16	24.11	23.01	23.2	33.01	PASS
n78(3700-3800)	30	70	650000	1@1	CP_QAM16	23.67	22.57	22.76	33.01	PASS
n78(3700-3800)	30	70	650000	1@187	CP_QAM16	23.66	22.56	22.75	33.01	PASS
n78(3700-3800)	30	70	650000	95@47	CP_QAM64	22.56	21.46	21.65	33.01	PASS
n78(3700-3800)	30	70	650000	1@1	CP_QAM64	22.15	21.05	21.24	33.01	PASS
n78(3700-3800)	30	70	650000	1@187	CP_QAM64	22.16	21.06	21.25	33.01	PASS
n78(3700-3800)	30	70	650000	95@47	CP_QAM256	19.75	18.65	18.84	33.01	PASS
n78(3700-3800)	30	70	650000	1@1	CP_QAM256	19.03	17.93	18.12	33.01	PASS
n78(3700-3800)	30	70	650000	1@187	CP_QAM256	19.02	17.92	18.11	33.01	PASS
n78(3700-3800)	30	70	651000	90@45	DFT_BPSK	26.10	25.00	25.19	33.01	PASS
n78(3700-3800)	30	70	651000	1@1	DFT_BPSK	25.83	24.73	24.92	33.01	PASS
n78(3700-3800)	30	70	651000	1@187	DFT_BPSK	25.58	24.48	24.67	33.01	PASS
n78(3700-3800)	30	70	651000	90@45	DFT_QPSK	26.10	25.00	25.19	33.01	PASS
n78(3700-3800)	30	70	651000	1@1	DFT_QPSK	25.66	24.56	24.75	33.01	PASS
n78(3700-3800)	30	70	651000	1@187	DFT_QPSK	25.54	24.44	24.63	33.01	PASS
n78(3700-3800)	30	70	651000	90@45	DFT_QAM16	25.10	24.00	24.19	33.01	PASS
n78(3700-3800)	30	70	651000	1@1	DFT_QAM16	24.71	23.61	23.8	33.01	PASS
n78(3700-3800)	30	70	651000	1@187	DFT_QAM16	25.04	23.94	24.13	33.01	PASS
n78(3700-3800)	30	70	651000	90@45	DFT_QAM64	23.65	22.55	22.74	33.01	PASS
n78(3700-3800)	30	70	651000	1@1	DFT_QAM64	23.56	22.46	22.65	33.01	PASS
n78(3700-3800)	30	70	651000	1@187	DFT_QAM64	23.57	22.47	22.66	33.01	PASS
n78(3700-3800)	30	70	651000	90@45	DFT_QAM256	21.59	20.49	20.68	33.01	PASS
n78(3700-3800)	30	70	651000	1@1	DFT_QAM256	21.30	20.20	20.39	33.01	PASS
n78(3700-3800)	30	70	651000	1@187	DFT_QAM256	21.47	20.37	20.56	33.01	PASS
n78(3700-3800)	30	70	651000	95@47	CP_QPSK	24.55	23.45	23.64	33.01	PASS
n78(3700-3800)	30	70	651000	1@1	CP_QPSK	24.23	23.13	23.32	33.01	PASS
n78(3700-3800)	30	70	651000	1@187	CP_QPSK	24.16	23.06	23.25	33.01	PASS
n78(3700-3800)	30	70	651000	95@47	CP_QAM16	24.08	22.98	23.17	33.01	PASS
n78(3700-3800)	30	70	651000	1@1	CP_QAM16	23.88	22.78	22.97	33.01	PASS
n78(3700-3800)	30	70	651000	1@187	CP_QAM16	23.83	22.73	22.92	33.01	PASS
n78(3700-3800)	30	70	651000	95@47	CP_QAM64	22.63	21.53	21.72	33.01	PASS
n78(3700-3800)	30	70	651000	1@1	CP_QAM64	22.26	21.16	21.35	33.01	PASS
n78(3700-3800)	30	70	651000	1@187	CP_QAM64	22.15	21.05	21.24	33.01	PASS
n78(3700-3800)	30	70	651000	95@47	CP_QAM256	19.72	18.62	18.81	33.01	PASS
n78(3700-3800)	30	70	651000	1@1	CP_QAM256	19.83	18.73	18.92	33.01	PASS
n78(3700-3800)	30	70	651000	1@187	CP_QAM256	19.05	17.95	18.14	33.01	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	656000	90@45	DFT_BPSK	3.91	-18.78	-0.01	Within authorized band for 5G NR n78	PASS
n78(3700-3800)	30	70	656000	90@45	DFT_BPSK	3.45	-21.81	-0.01		PASS
n78(3700-3800)	30	70	656000	90@45	DFT_BPSK	4.50	-24.18	-0.01		PASS
n78(3700-3800)	30	70	656000	90@45	DFT_QPSK	3.91	-27.10	-0.01		PASS
n78(3700-3800)	30	70	656000	90@45	DFT_QPSK	3.45	-26.53	-0.01		PASS
n78(3700-3800)	30	70	656000	90@45	DFT_QPSK	4.50	-21.89	-0.01		PASS

Note: Only the worst case shown in the report.

NV:

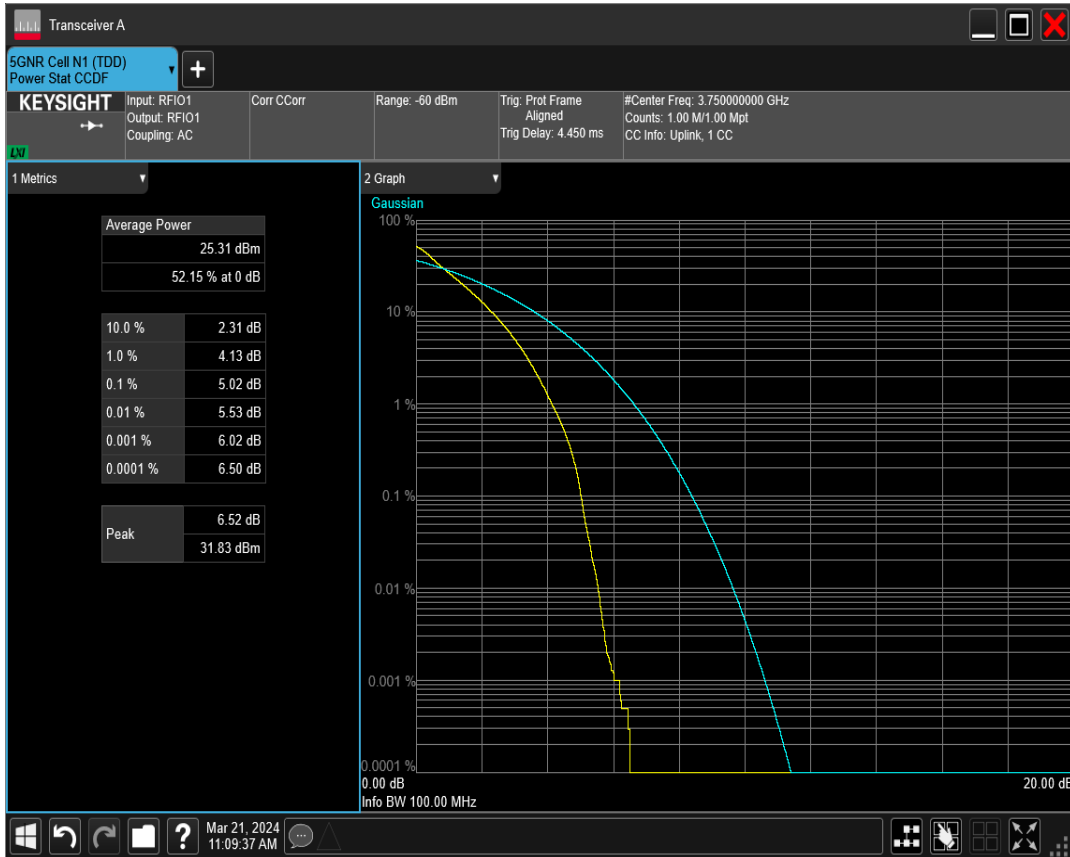
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Voltage (Vdc)	Result(Hz)	Result (ppm)	Limit (ppm)	Verdict
n78(3700-3800)	30	70	656000	90@45	DFT_BPSK	-30	-26.32	-0.01	Within authorized band for 5G NR n78	PASS
n78(3700-3800)	30	70	656000	90@45	DFT_BPSK	-20	-26.07	-0.01		PASS
n78(3700-3800)	30	70	656000	90@45	DFT_BPSK	-10	-23.6	-0.01		PASS
n78(3700-3800)	30	70	656000	90@45	DFT_BPSK	0	-21.04	-0.01		PASS
n78(3700-3800)	30	70	656000	90@45	DFT_BPSK	10	-24.51	-0.01		PASS
n78(3700-3800)	30	70	656000	90@45	DFT_BPSK	20	-24.21	-0.01		PASS
n78(3700-3800)	30	70	656000	90@45	DFT_BPSK	30	-24.6	-0.01		PASS
n78(3700-3800)	30	70	656000	90@45	DFT_BPSK	40	-20.4	-0.01		PASS
n78(3700-3800)	30	70	656000	90@45	DFT_BPSK	50	-22.73	-0.01		PASS
n78(3700-3800)	30	70	656000	90@45	DFT_QPSK	-30	-24	-0.01		PASS
n78(3700-3800)	30	70	656000	90@45	DFT_QPSK	-20	-21.13	-0.01		PASS
n78(3700-3800)	30	70	656000	90@45	DFT_QPSK	-10	-22.57	-0.01		PASS
n78(3700-3800)	30	70	656000	90@45	DFT_QPSK	0	-22.31	-0.01		PASS
n78(3700-3800)	30	70	656000	90@45	DFT_QPSK	10	-24.28	-0.01		PASS
n78(3700-3800)	30	70	656000	90@45	DFT_QPSK	20	-21.63	-0.01		PASS
n78(3700-3800)	30	70	656000	90@45	DFT_QPSK	30	-23.78	-0.01		PASS
n78(3700-3800)	30	70	656000	90@45	DFT_QPSK	40	-26.43	-0.01		PASS
n78(3700-3800)	30	70	656000	90@45	DFT_QPSK	50	-25.83	-0.01		PASS

Note: Only the worst case shown in the report.

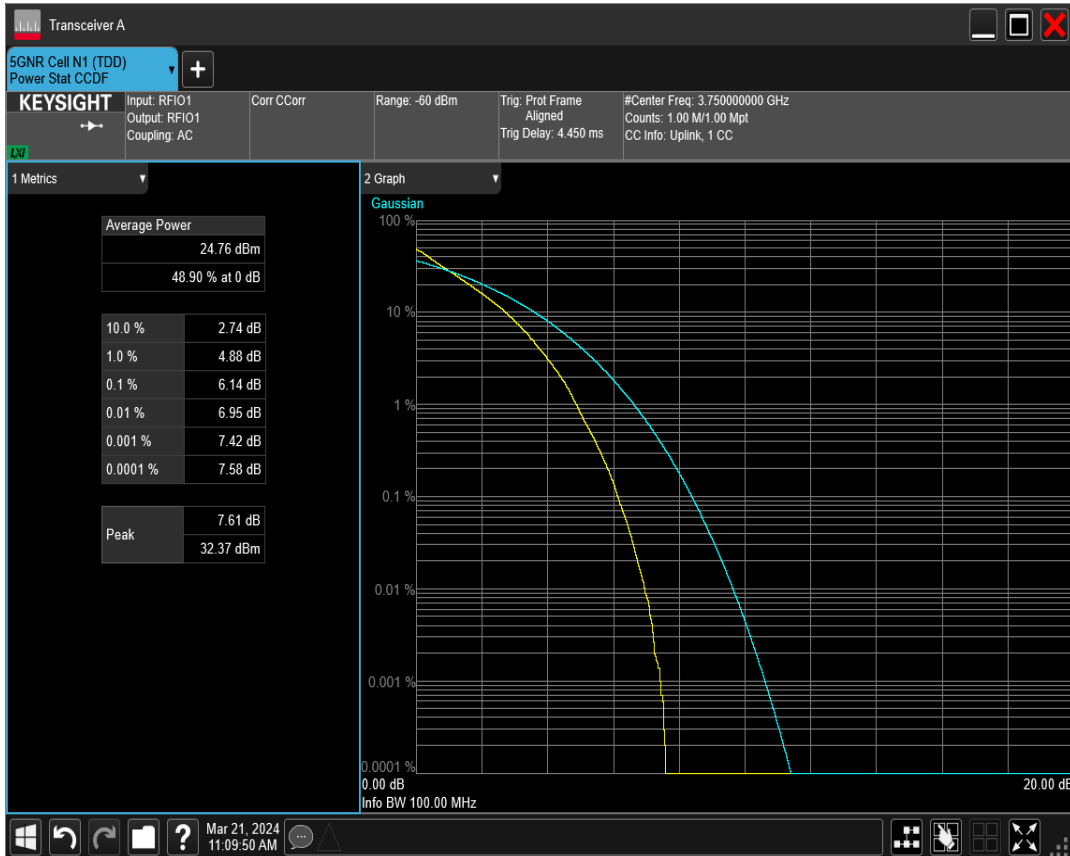
3 Peak-to-Average Ratio for NR FR1

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	5.02	13	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QPSK	6.14	13	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QAM16	6.80	13	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QAM64	7.02	13	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QAM256	7.07	13	PASS

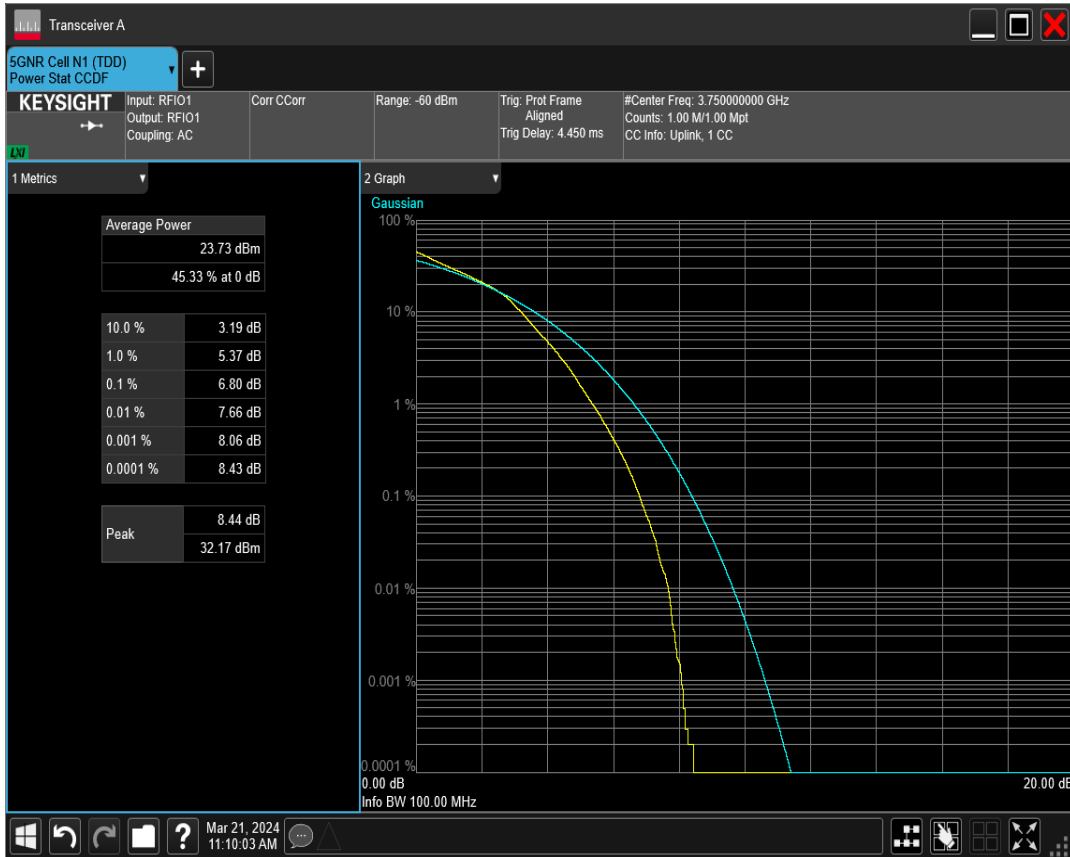
n78(3700-3800) SCS=30kHz DFT_BPSK BW=70MHz Channel=650000 RB=180@0



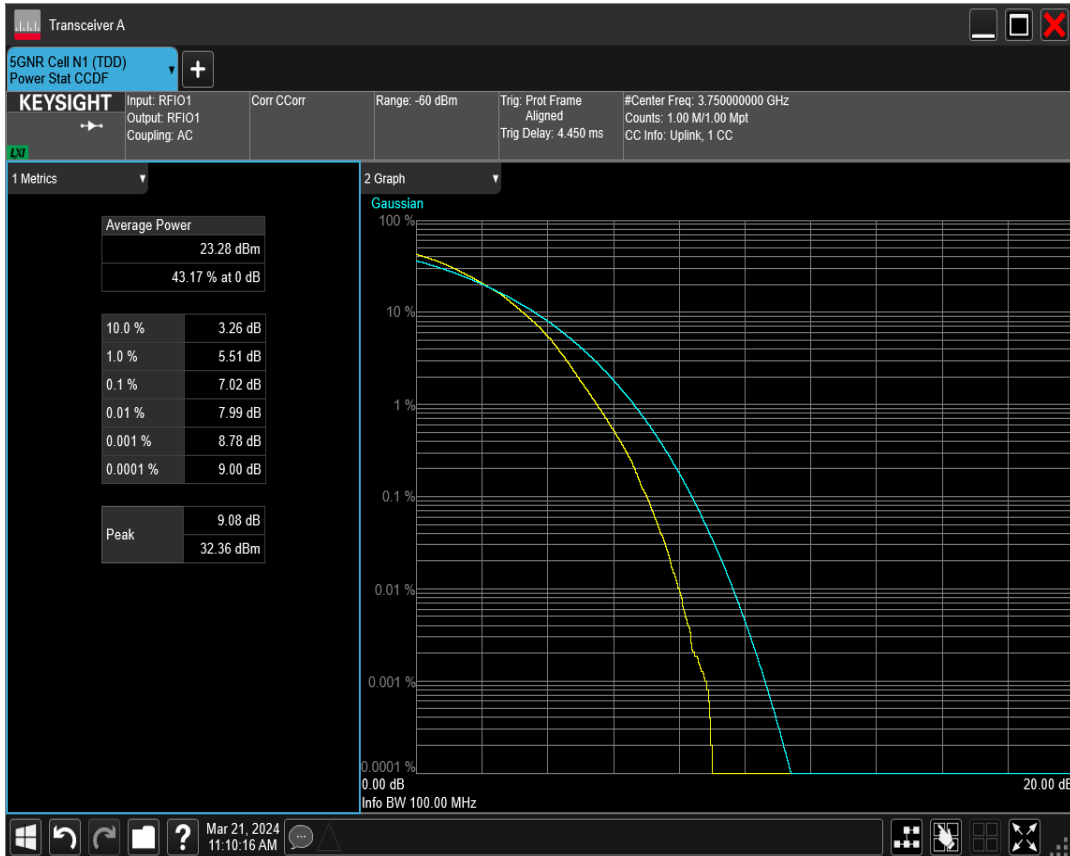
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=650000 RB=180@0



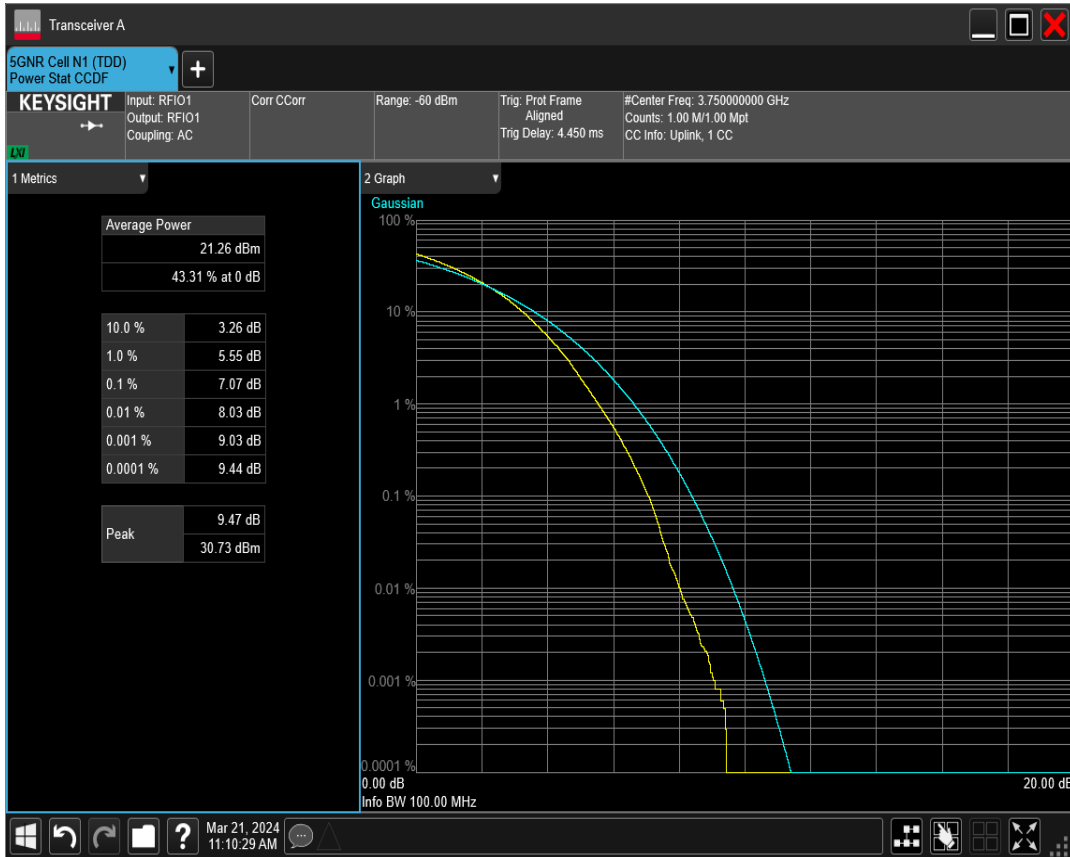
n78(3700-3800) SCS=30kHz DFT_QAM16 BW=70MHz Channel=650000 RB=180@0



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



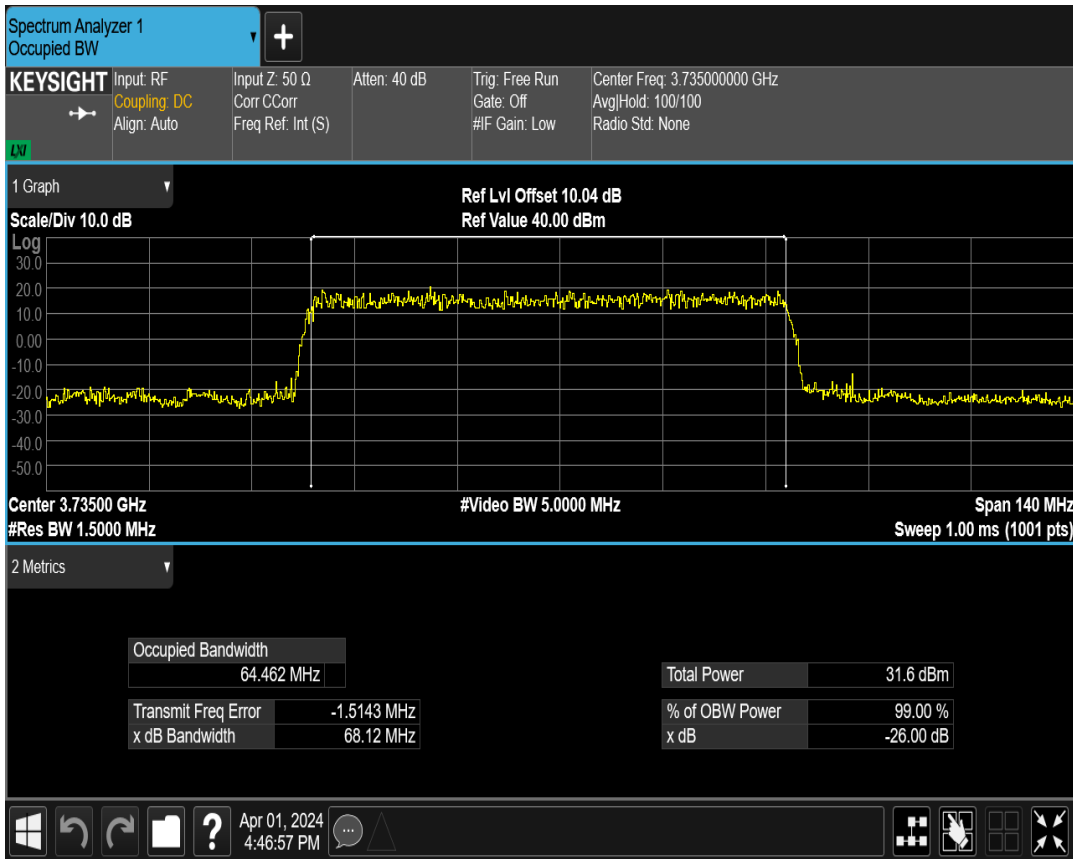
n78(3700-3800) SCS=30kHz DFT_QAM256 BW=70MHz Channel=650000 RB=180@0



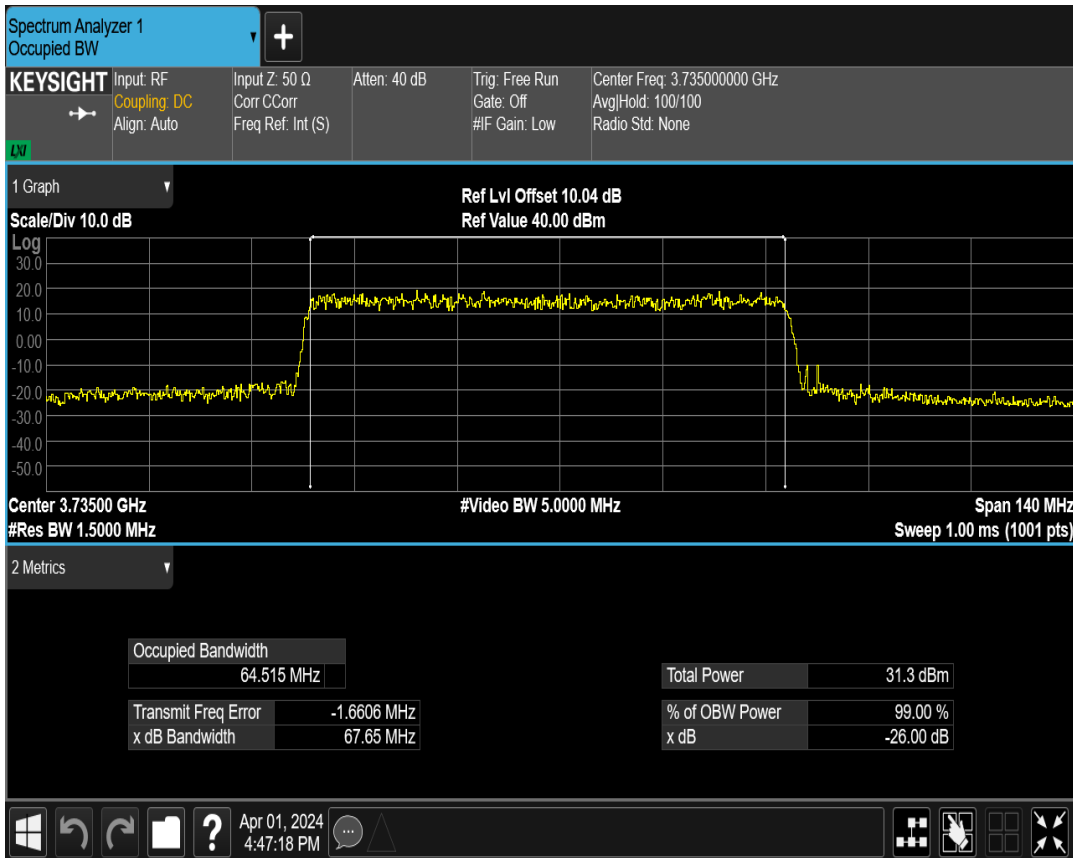
4 Occupied bandwidth for NR FR1

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	64.462	68.118	PASS
n78(3700-3800)	30	70	649000	180@0	DFT_QPSK	64.515	67.654	PASS
n78(3700-3800)	30	70	649000	180@0	DFT_QAM16	64.189	67.834	PASS
n78(3700-3800)	30	70	649000	180@0	DFT_QAM64	64.797	68.158	PASS
n78(3700-3800)	30	70	649000	180@0	DFT_QAM256	64.512	67.892	PASS
n78(3700-3800)	30	70	649000	189@0	CP_QPSK	67.718	71.178	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_BPSK	64.591	67.728	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QPSK	64.604	68.364	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QAM16	64.243	67.346	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QAM64	64.415	68.462	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QAM256	64.296	68.361	PASS
n78(3700-3800)	30	70	650000	189@0	CP_QPSK	67.371	71.309	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_BPSK	64.404	67.996	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_QPSK	64.779	68.311	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_QAM16	64.329	67.653	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_QAM64	64.719	68.385	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_QAM256	64.165	67.874	PASS
n78(3700-3800)	30	70	651000	189@0	CP_QPSK	67.341	70.917	PASS

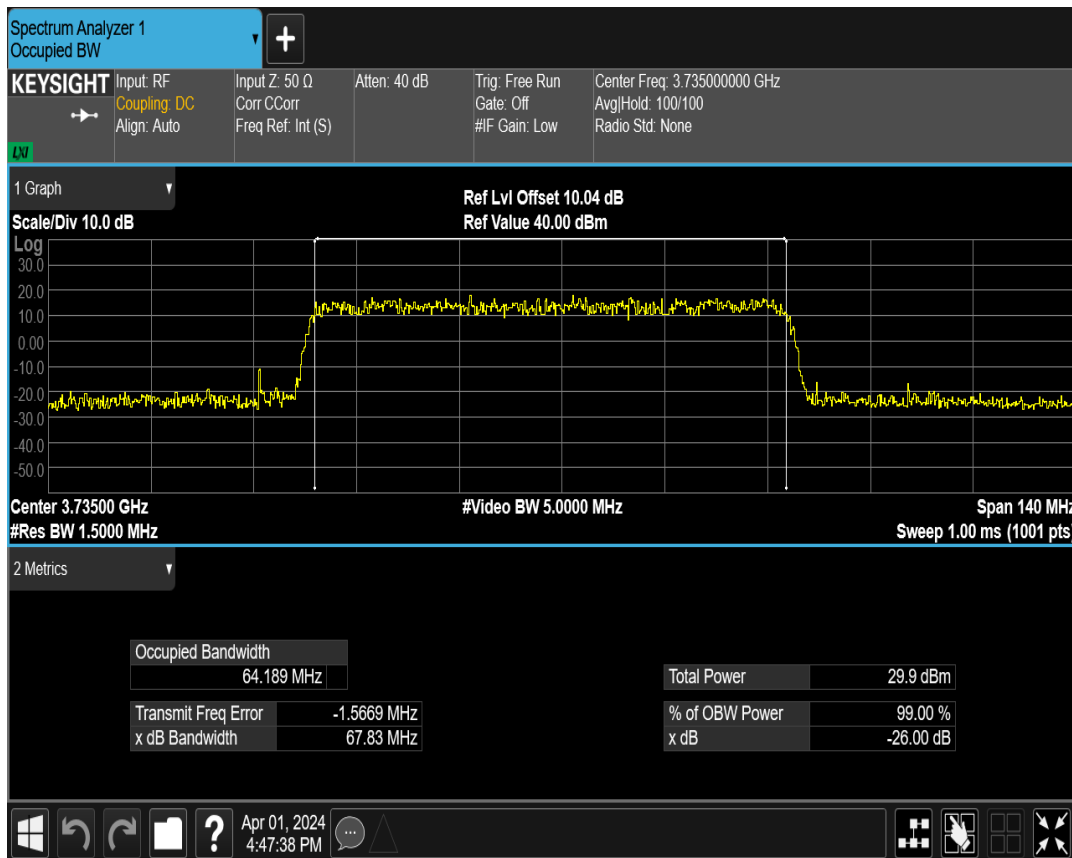
n78(3700-3800) SCS=30kHz DFT_BPSK BW=70MHz Channel=649000 RB=180@0



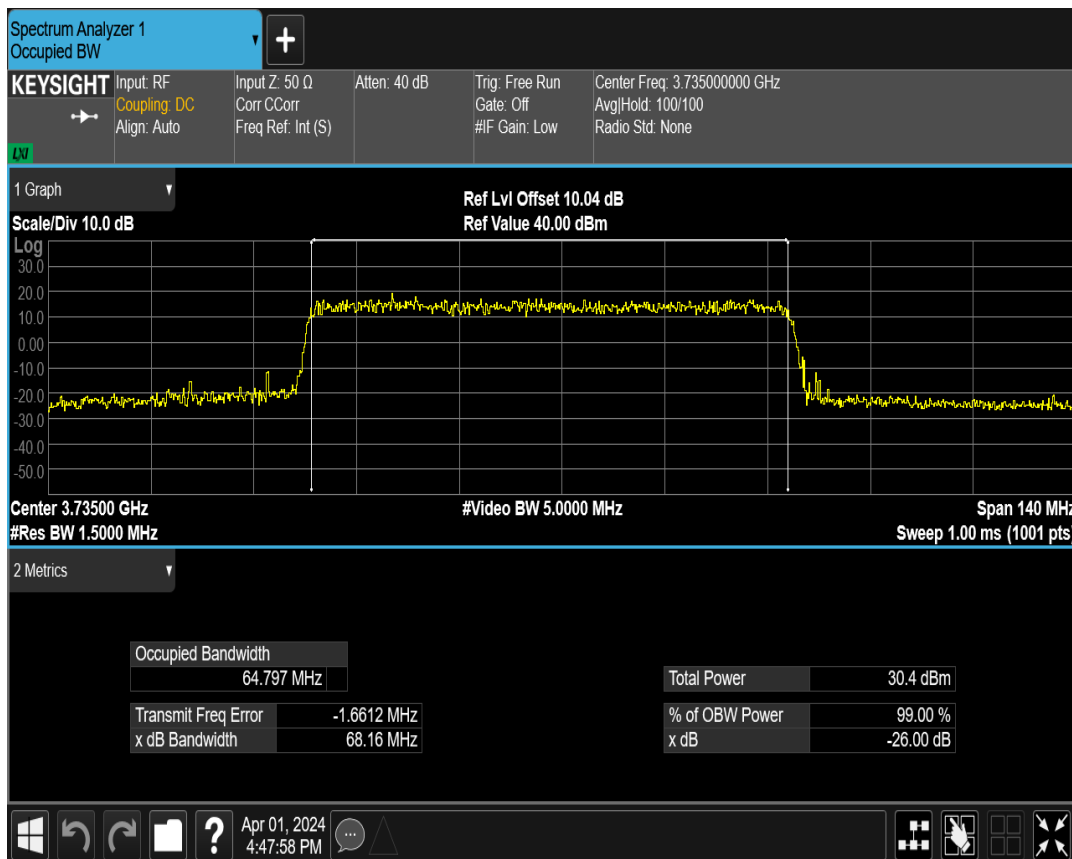
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=649000 RB=180@0



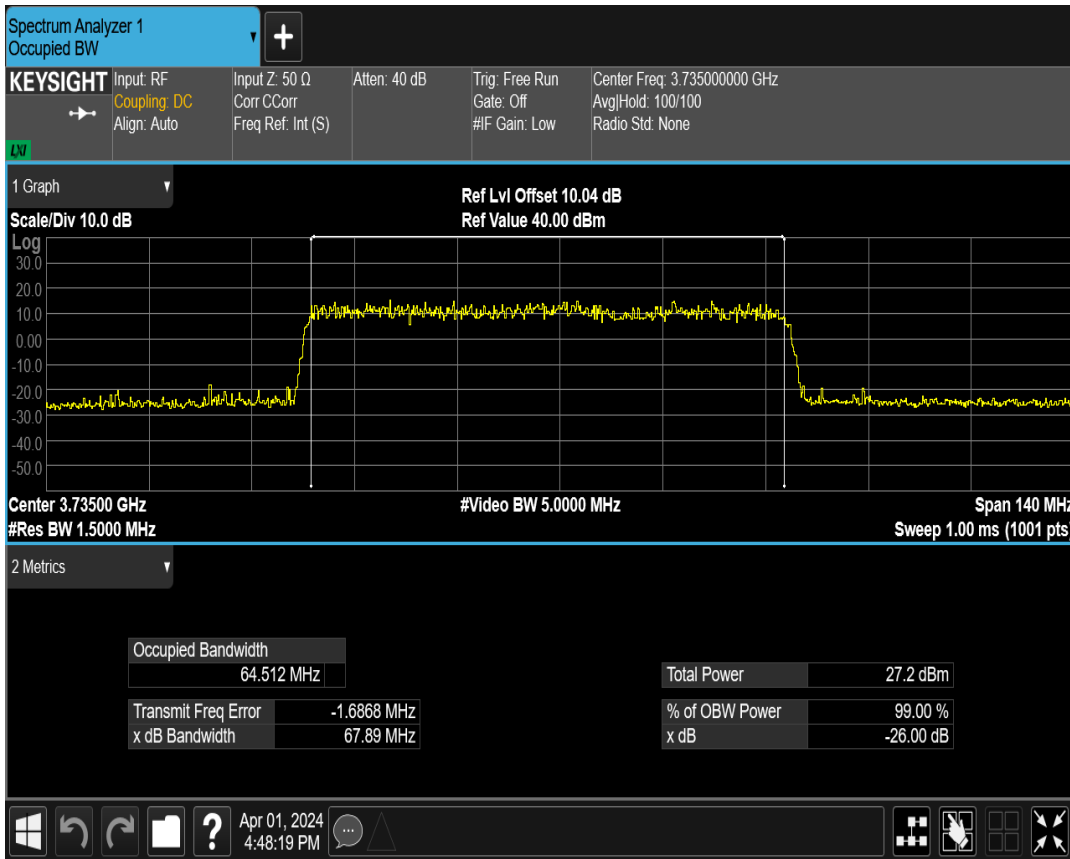
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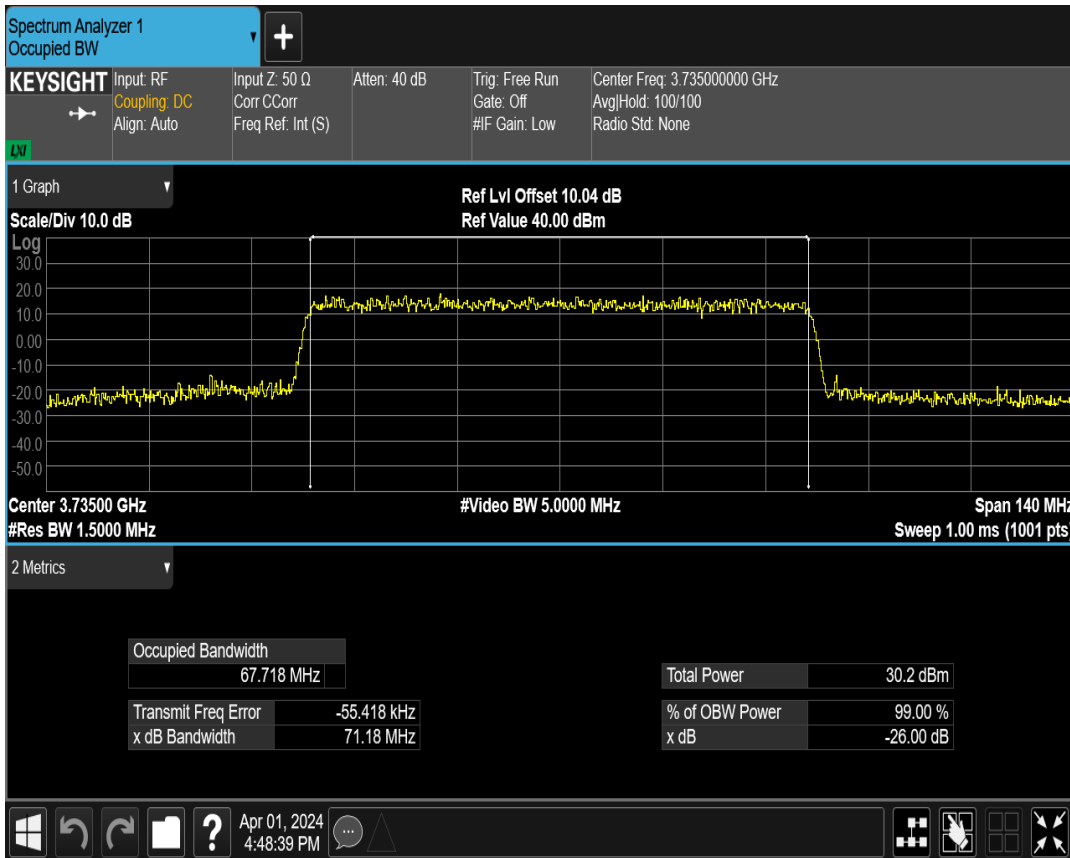
n78(3700-3800) SCS=30kHz DFT_QAM64 BW=70MHz Channel=649000 RB=180@0



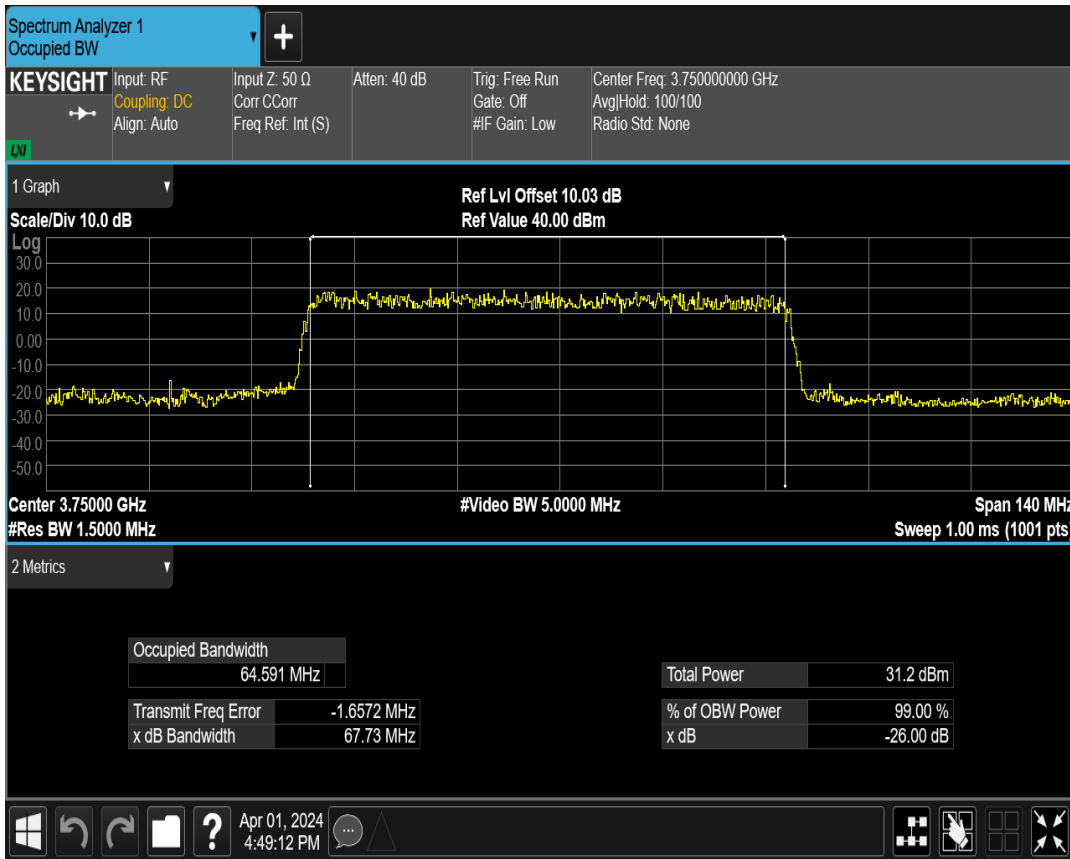
n78(3700-3800) SCS=30kHz DFT_QAM256 BW=70MHz Channel=649000 RB=180@0



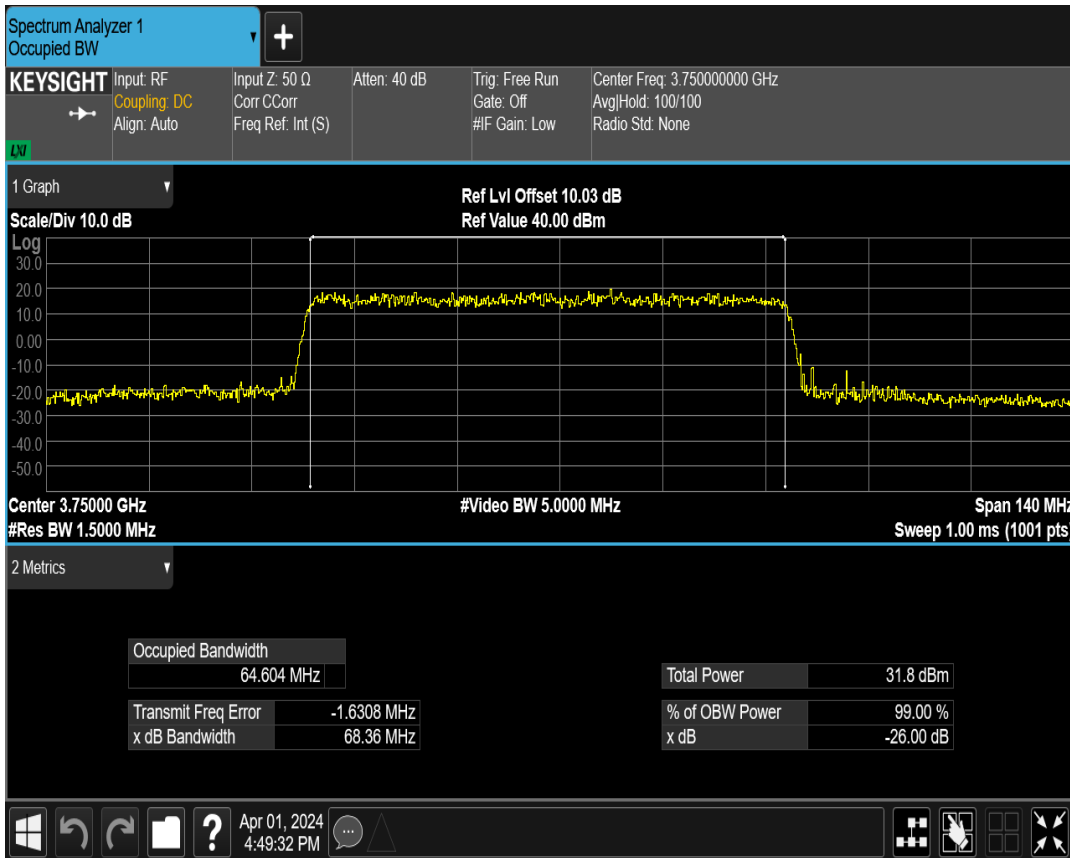
n78(3700-3800) SCS=30kHz CP_QPSK BW=70MHz Channel=649000 RB=189@0



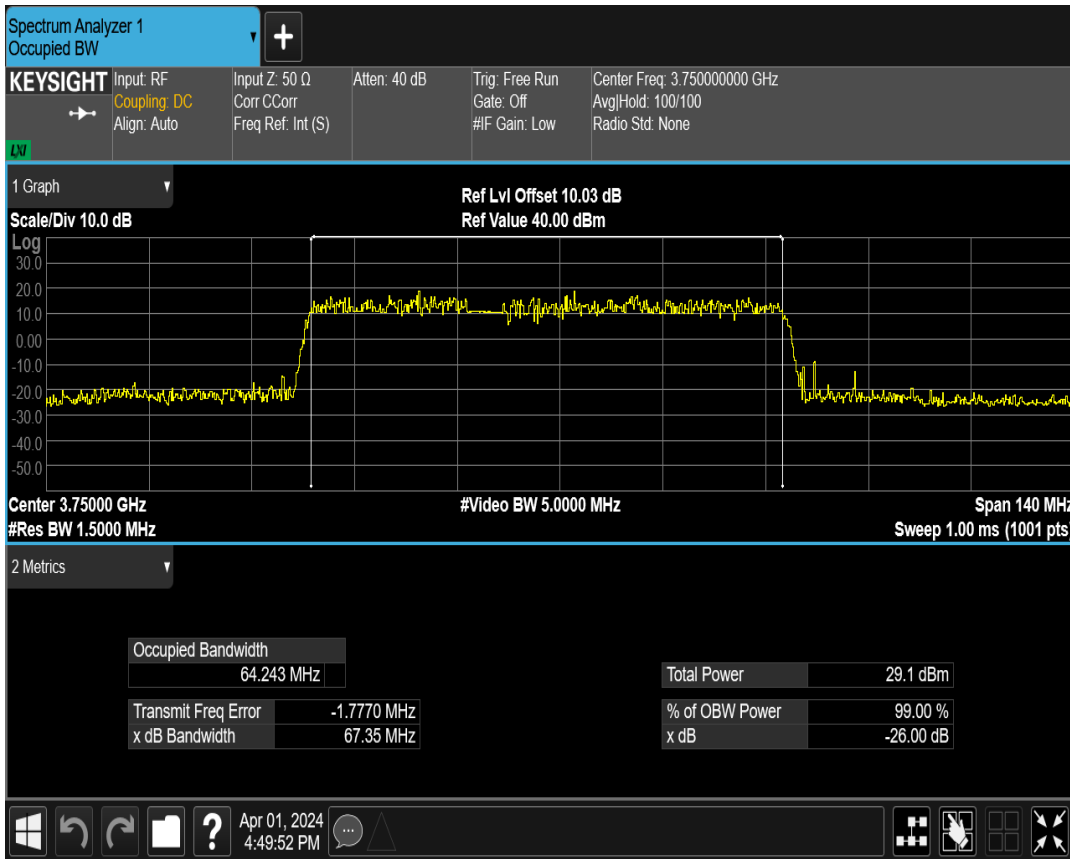
n78(3700-3800) SCS=30kHz DFT_BPSK BW=70MHz Channel=650000 RB=180@0



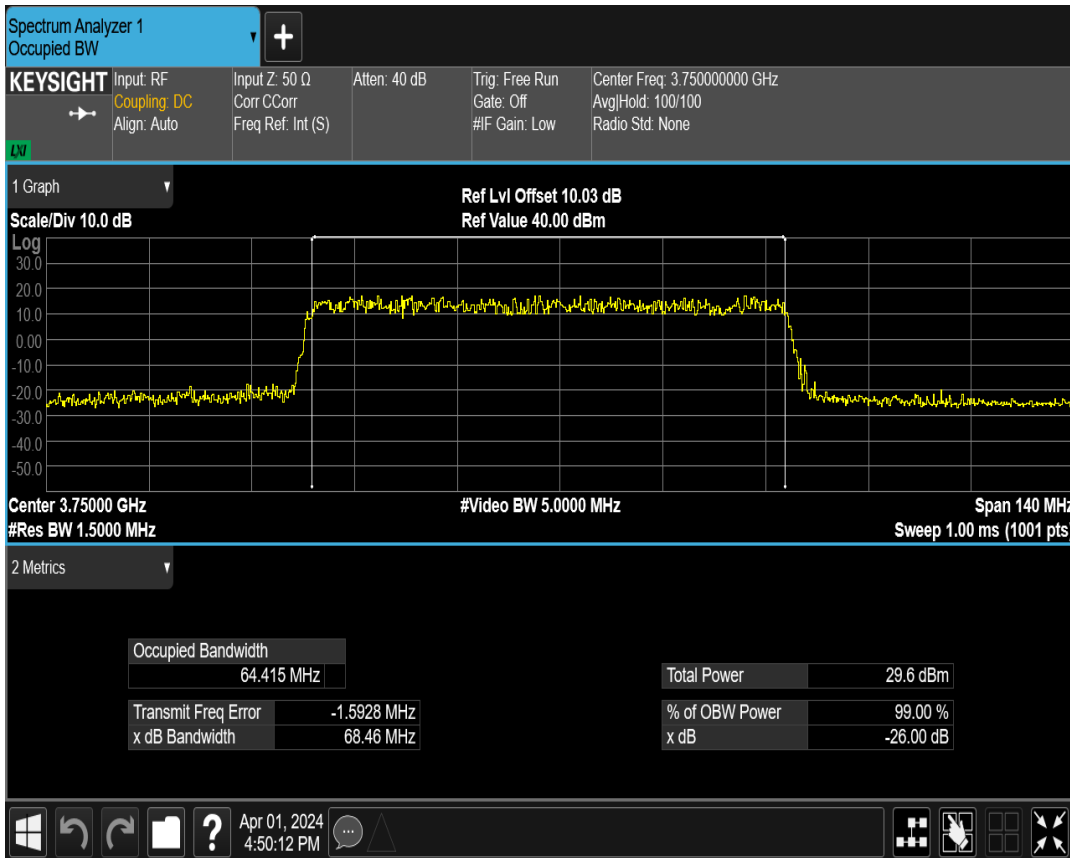
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=650000 RB=180@0



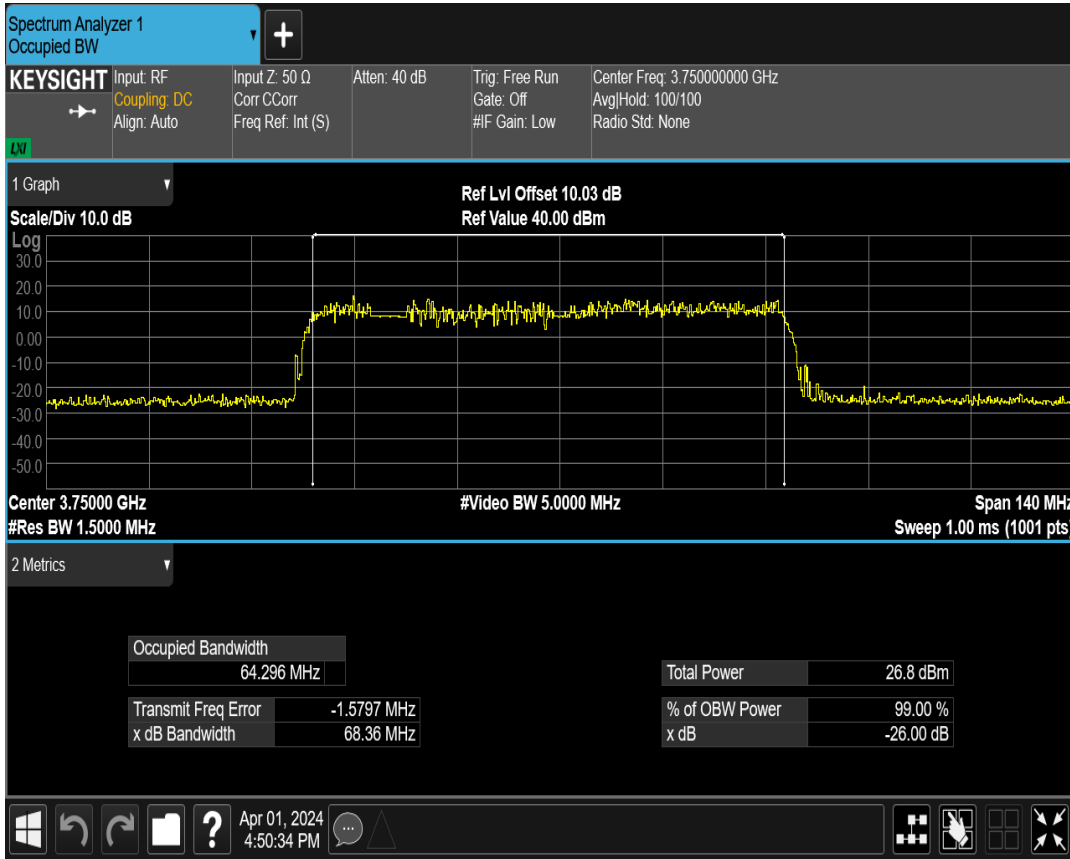
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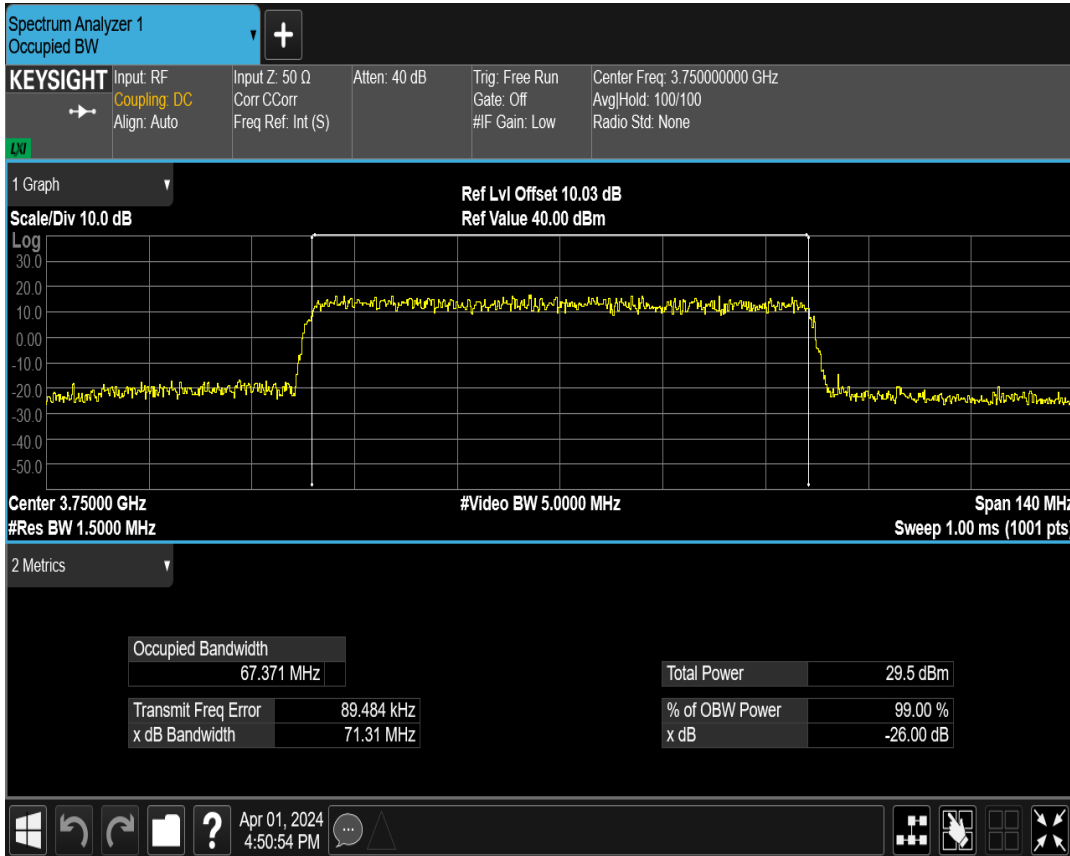
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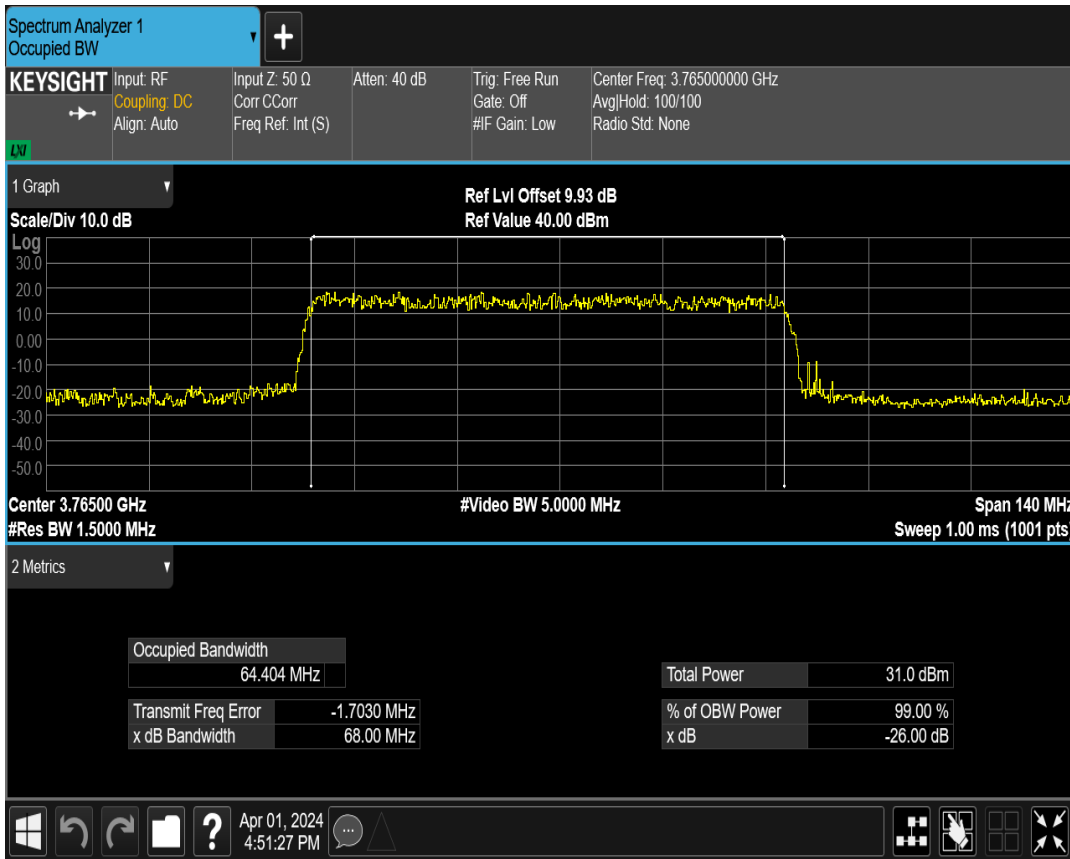
n78(3700-3800) SCS=30kHz DFT_QAM256 BW=70MHz Channel=650000 RB=180@0



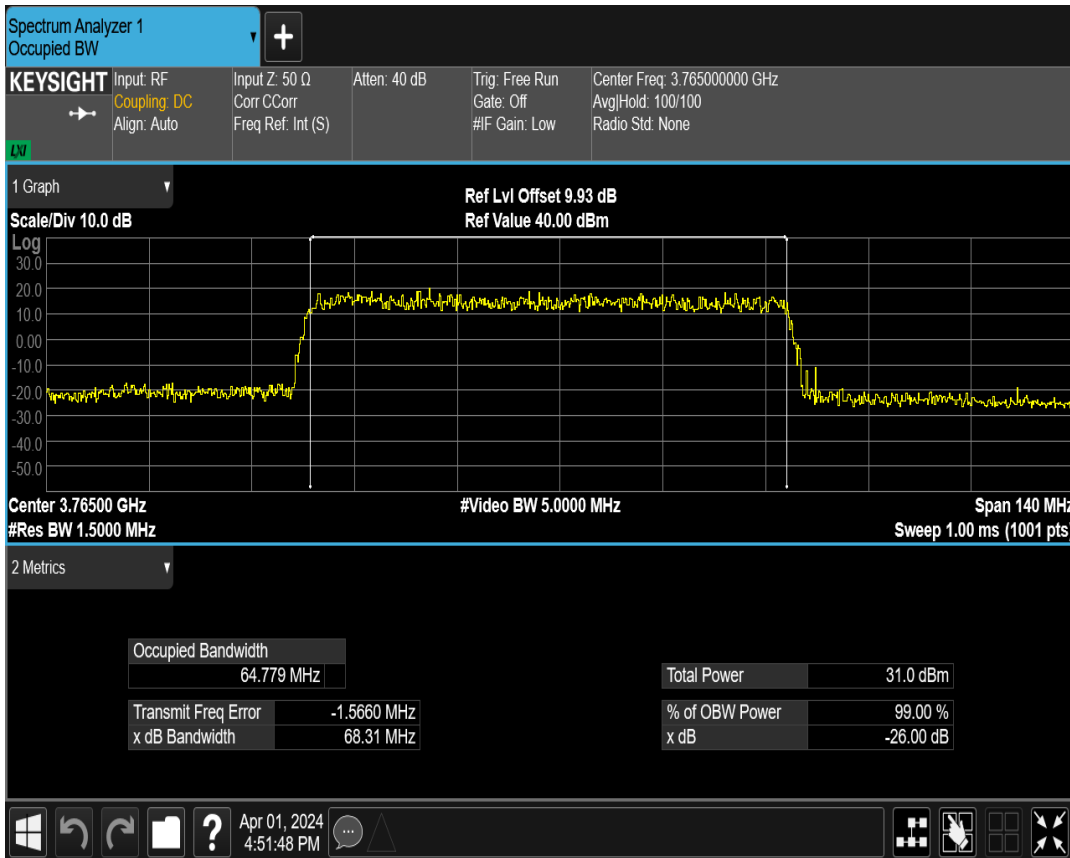
n78(3700-3800) SCS=30kHz CP_QPSK BW=70MHz Channel=650000 RB=189@0



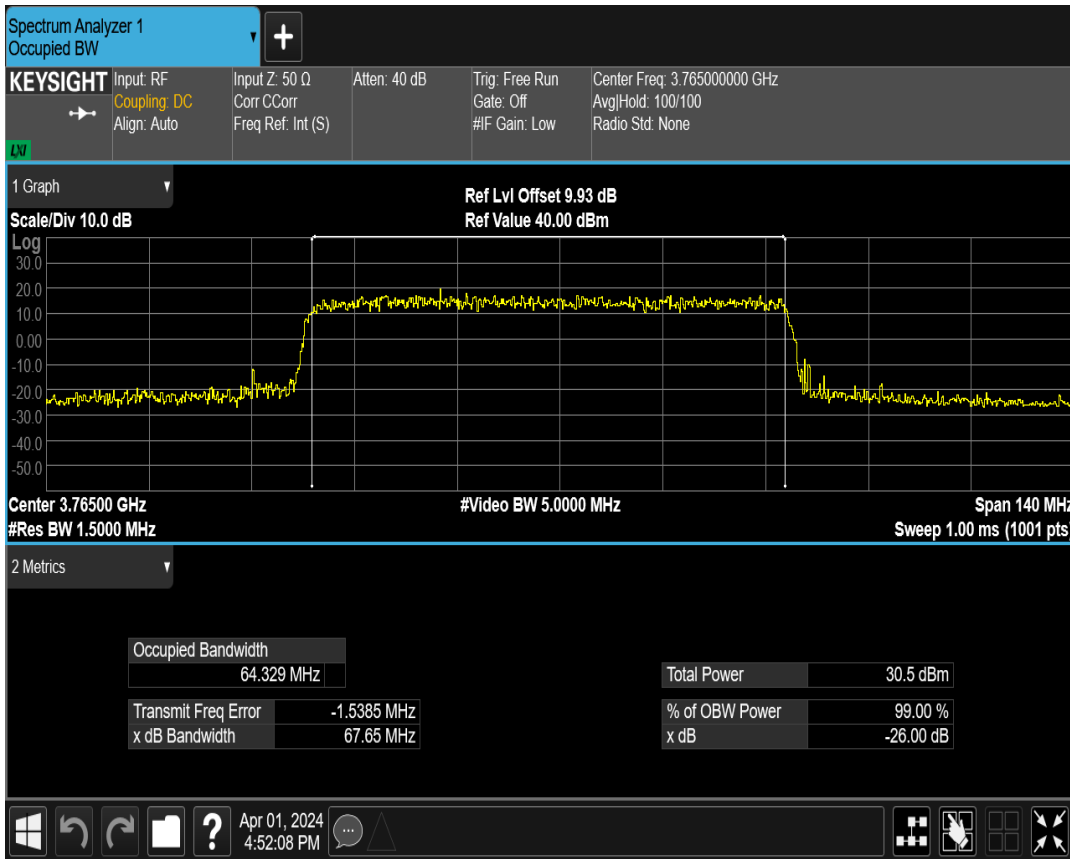
n78(3700-3800) SCS=30kHz DFT_BPSK BW=70MHz Channel=651000 RB=180@0



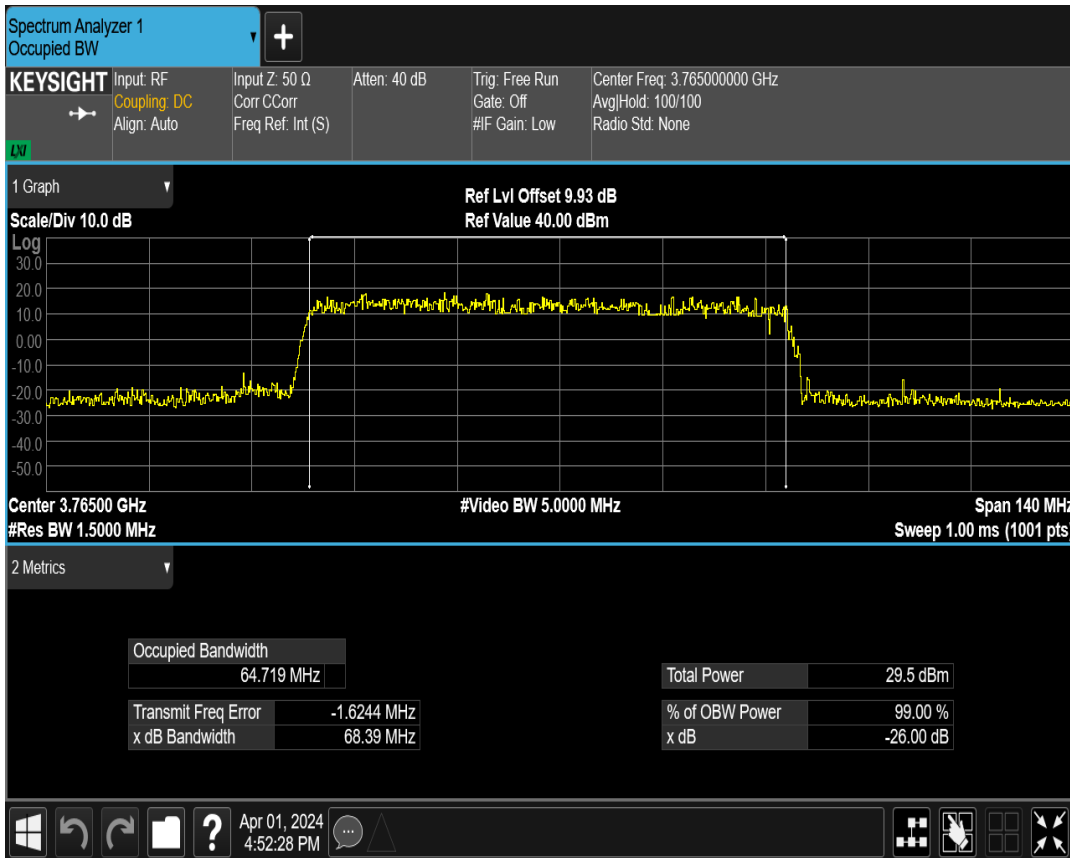
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=651000 RB=180@0



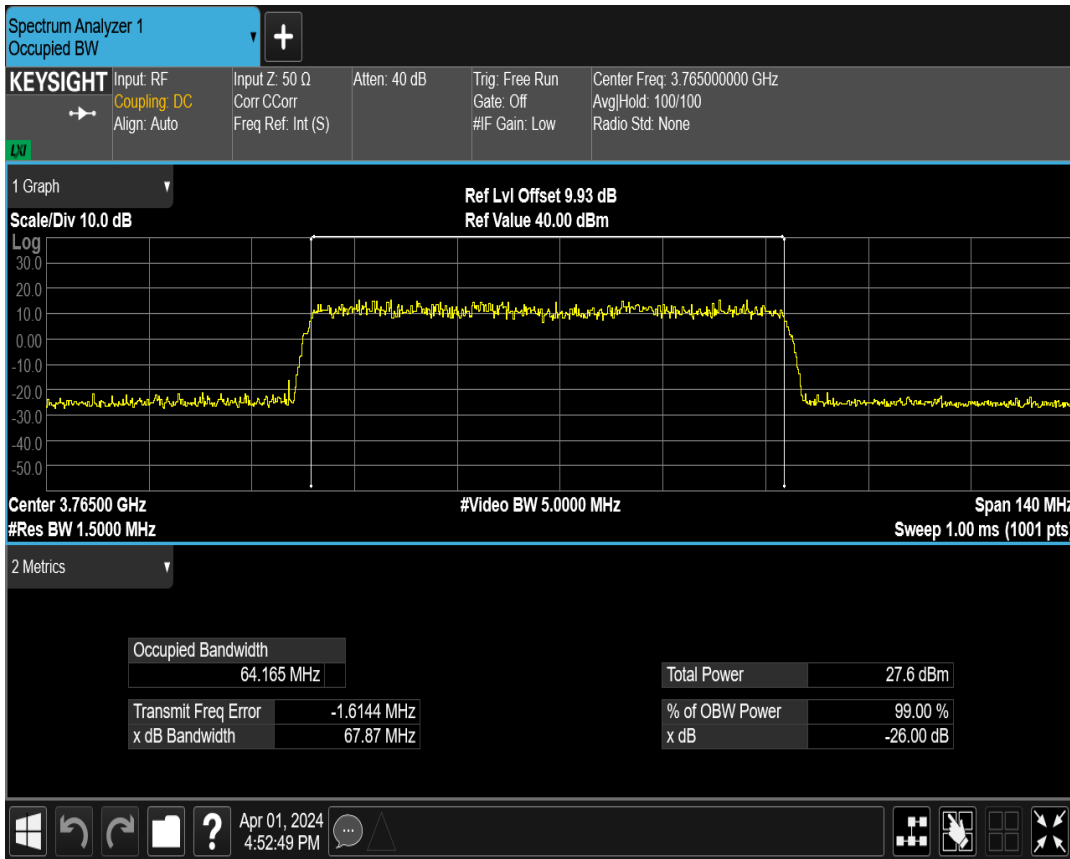
n78(3700-3800) SCS=30kHz DFT_QAM16 BW=70MHz Channel=651000 RB=180@0



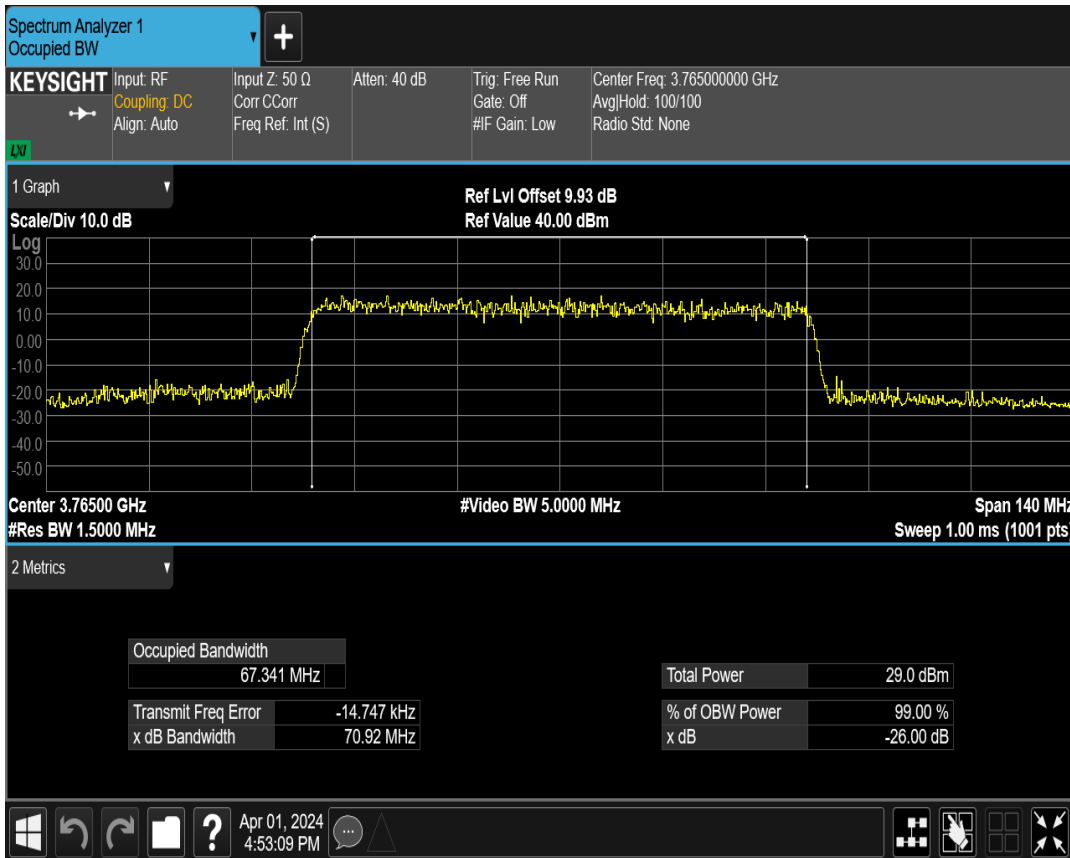
n78(3700-3800) SCS=30kHz DFT_QAM64 BW=70MHz Channel=651000 RB=180@0



n78(3700-3800) SCS=30kHz DFT_QAM256 BW=70MHz Channel=651000 RB=180@0



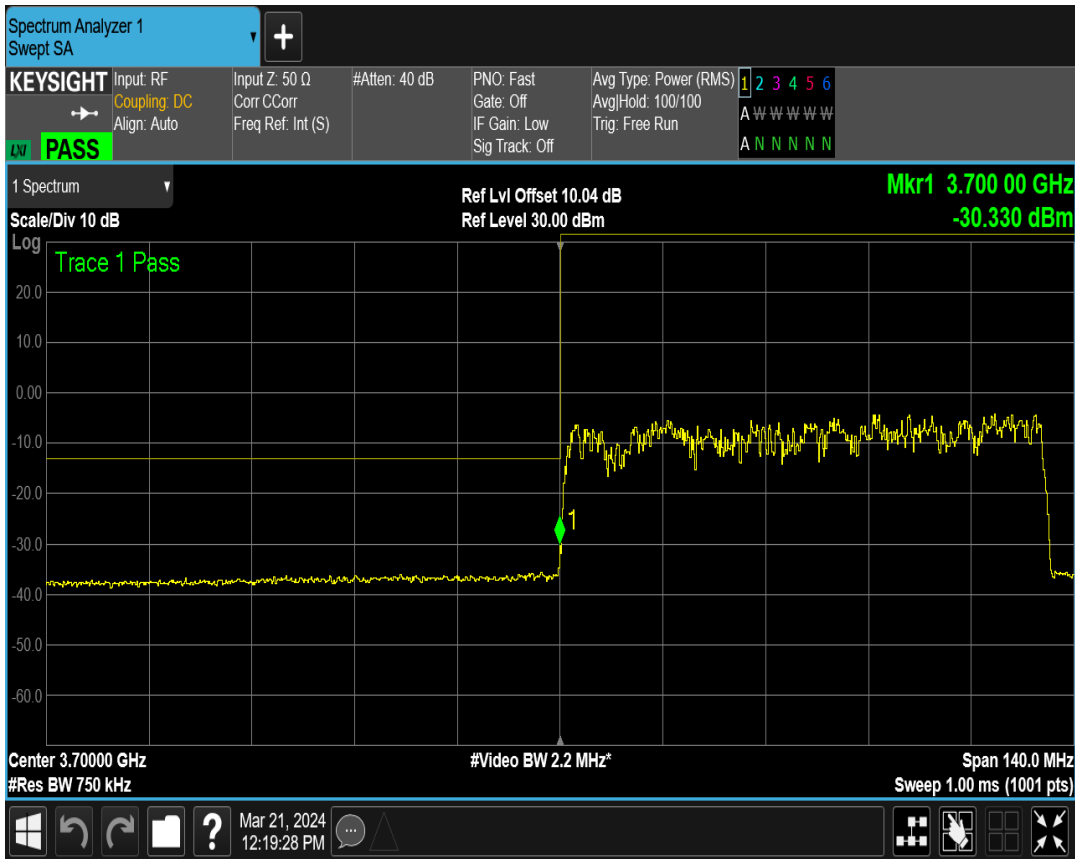
n78(3700-3800) SCS=30kHz CP_QPSK BW=70MHz Channel=651000 RB=189@0



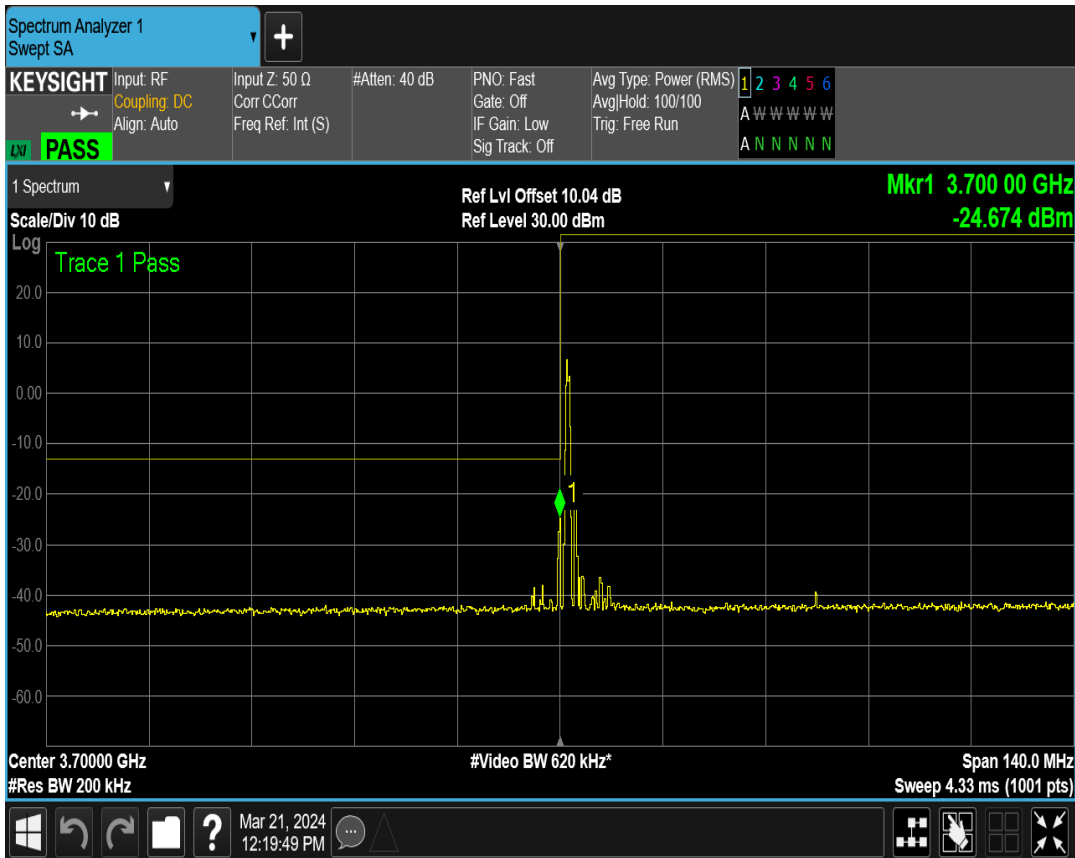
5 Band edge for NR FR1

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	3700.00	-30.33	-13	PASS
n78(3700-3800)	30	70	649000	1@0	DFT_QPSK	3700.00	-24.67	-13	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_QPSK	3801.54	-35.42	-13	PASS
n78(3700-3800)	30	70	651000	1@188	DFT_QPSK	3800.00	-31.46	-13	PASS

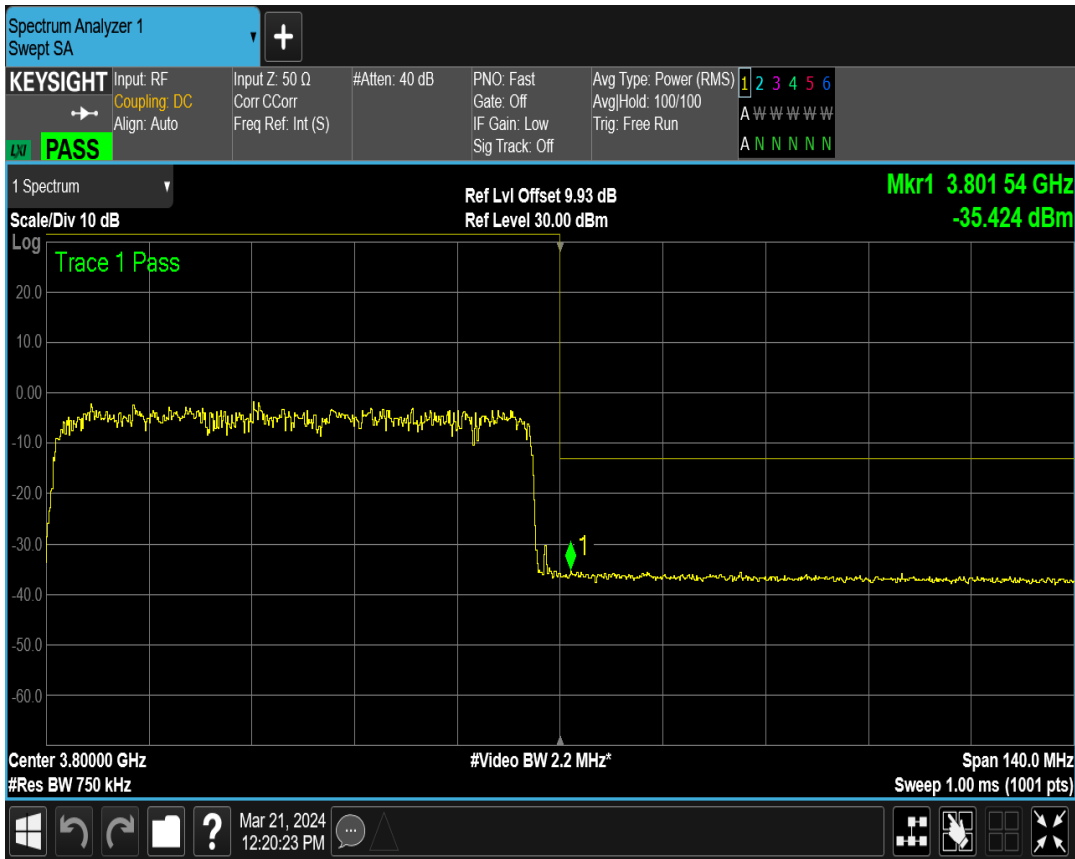
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=649000 RB=180@0



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



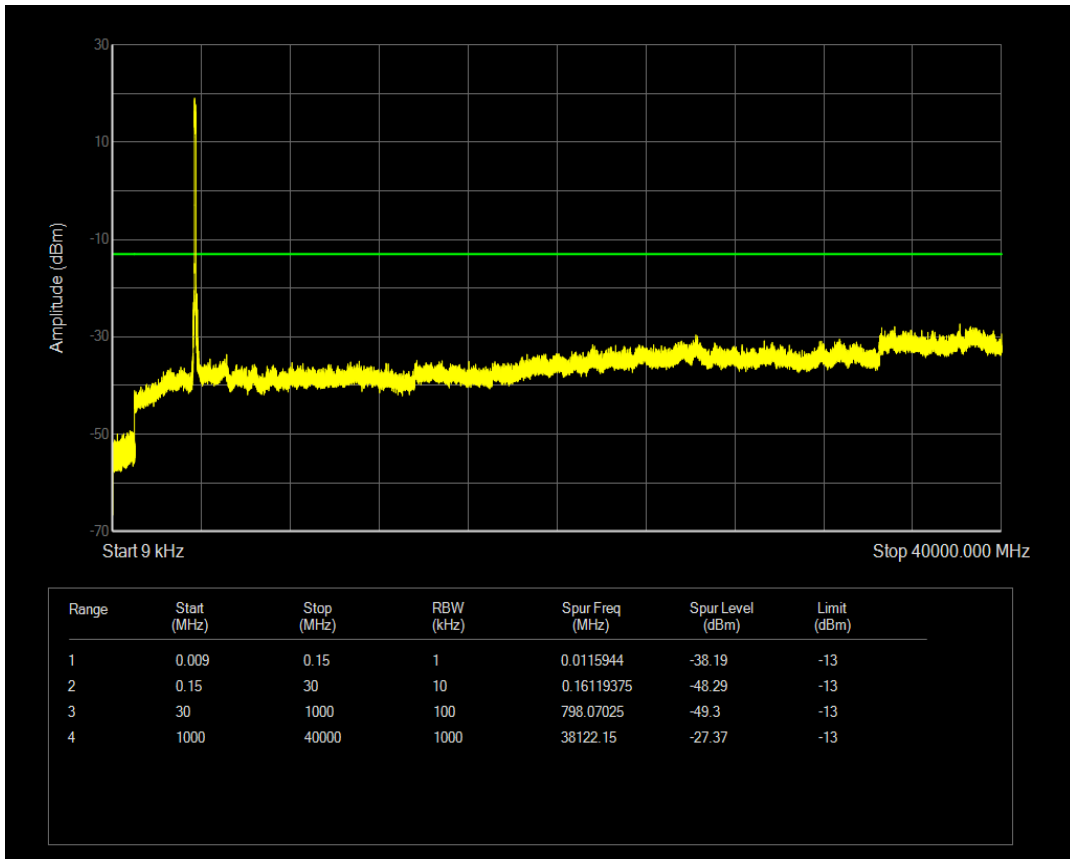
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=651000 RB=1@188



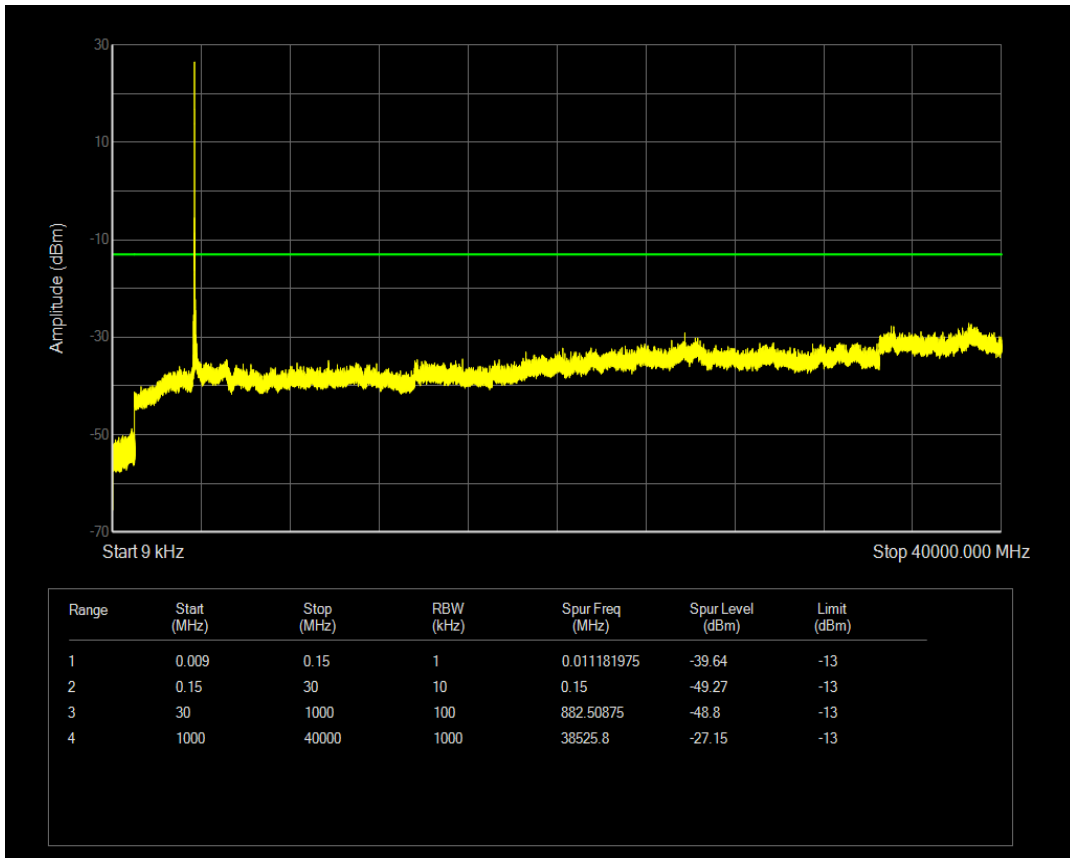
6 Out-of-band emissions for NR FR1

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	38122.15	-27.37	-13	PASS
n78(3700-3800)	30	70	649000	1@0	DFT_QPSK	38525.80	-27.15	-13	PASS
n78(3700-3800)	30	70	649000	1@188	DFT_QPSK	38723.73	-26.83	-13	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QPSK	38563.83	-27.20	-13	PASS
n78(3700-3800)	30	70	650000	1@0	DFT_QPSK	37625.88	-27.75	-13	PASS
n78(3700-3800)	30	70	650000	1@188	DFT_QPSK	36947.28	-27.56	-13	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_QPSK	38521.90	-26.96	-13	PASS
n78(3700-3800)	30	70	651000	1@0	DFT_QPSK	38821.23	-27.54	-13	PASS
n78(3700-3800)	30	70	651000	1@188	DFT_QPSK	38569.68	-27.79	-13	PASS

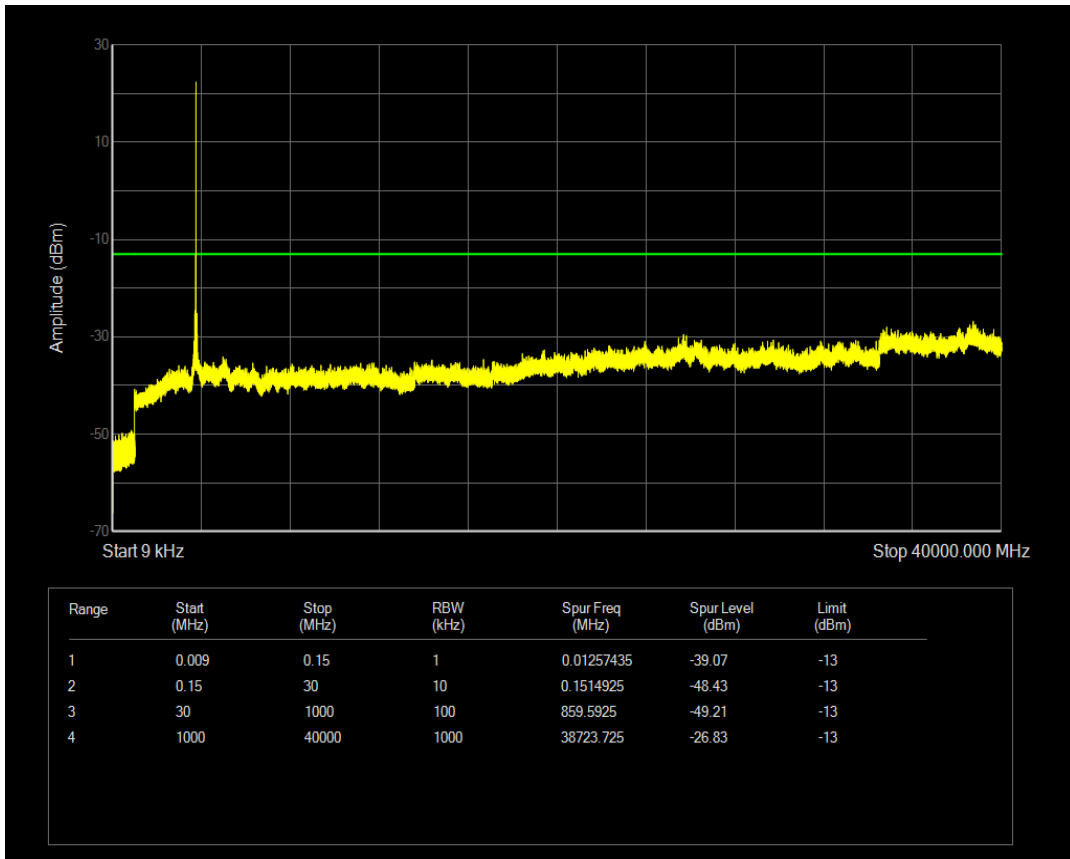
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=649000 RB=180@0



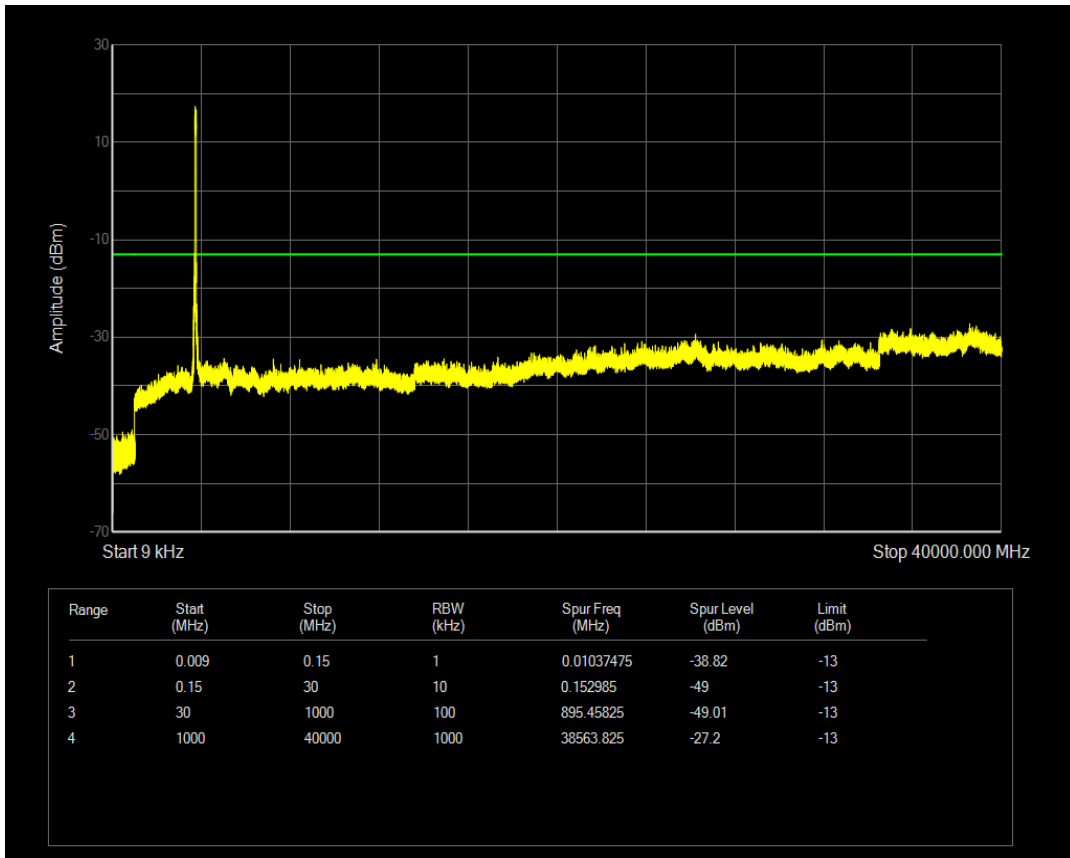
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=649000 RB=1@0



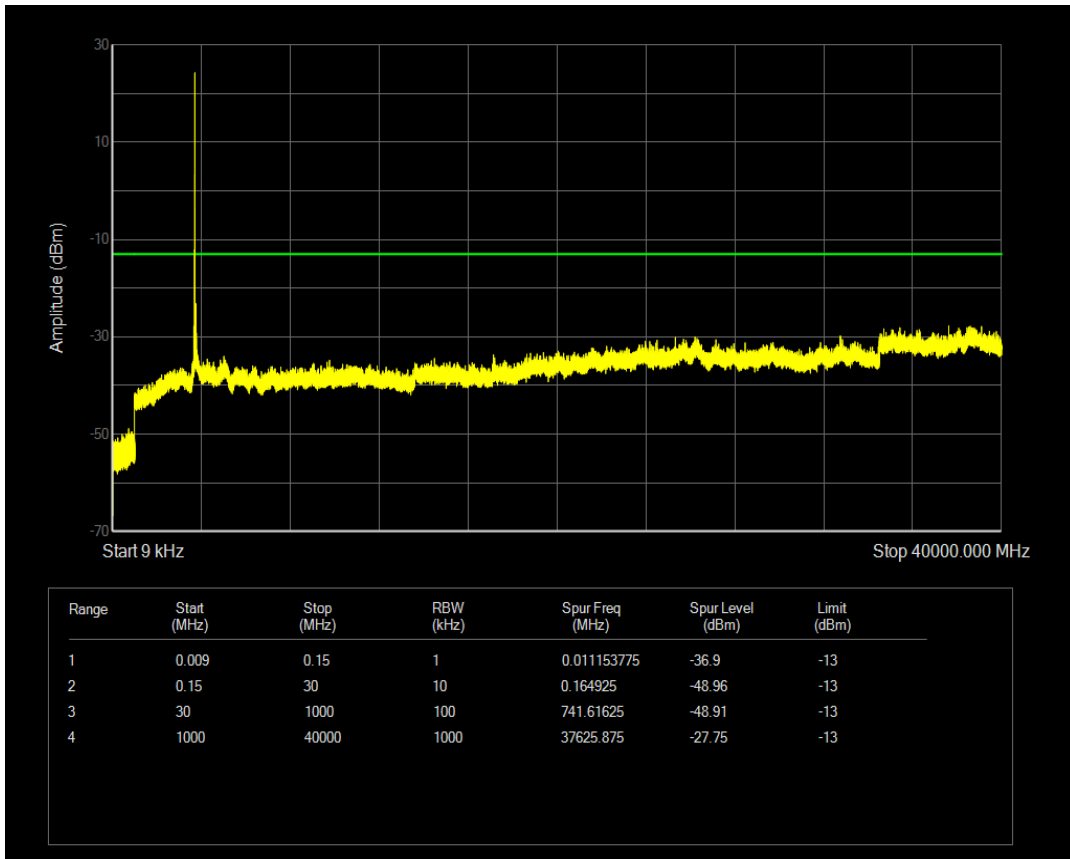
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=649000 RB=1 @188



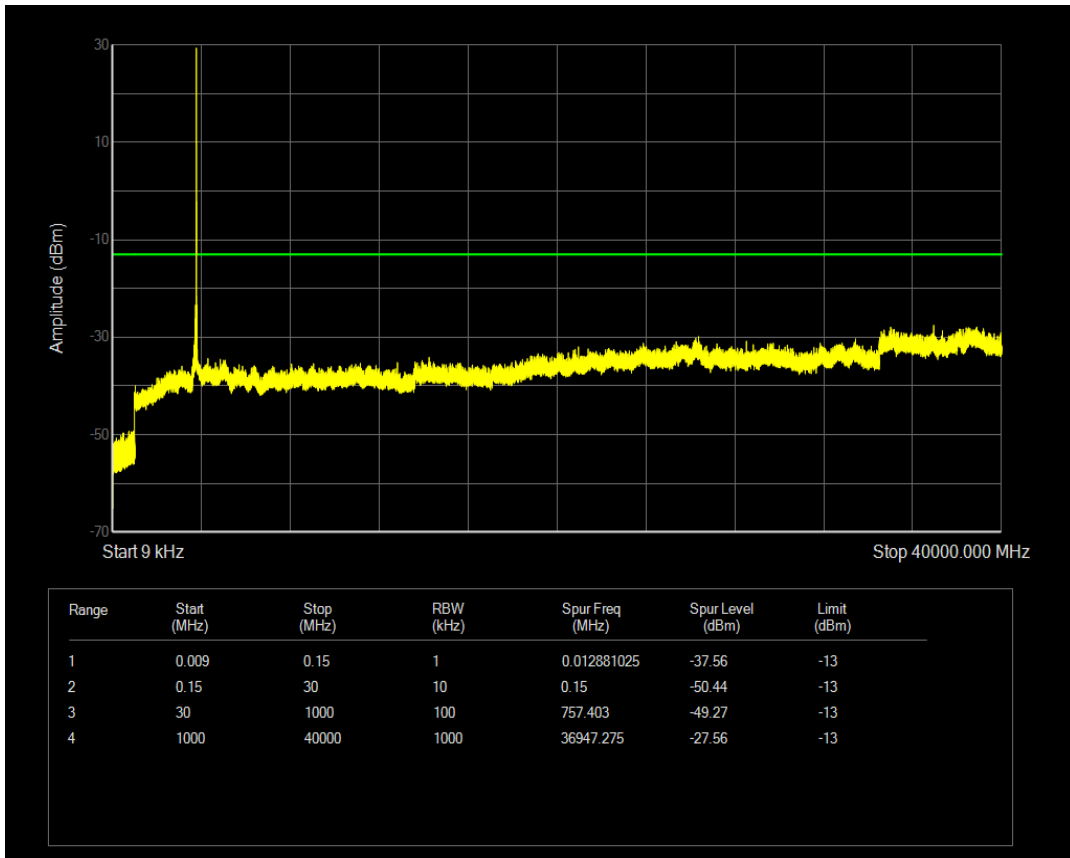
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=650000 RB=180 @0



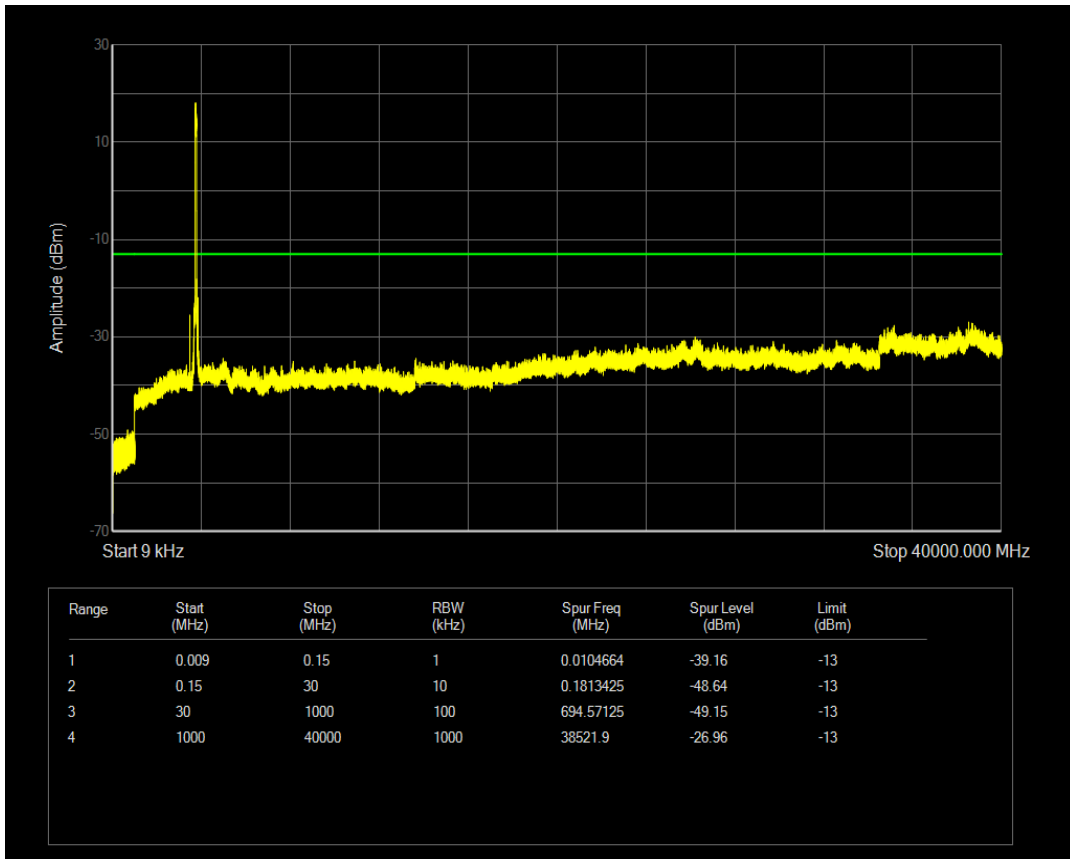
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=650000 RB=1 @0



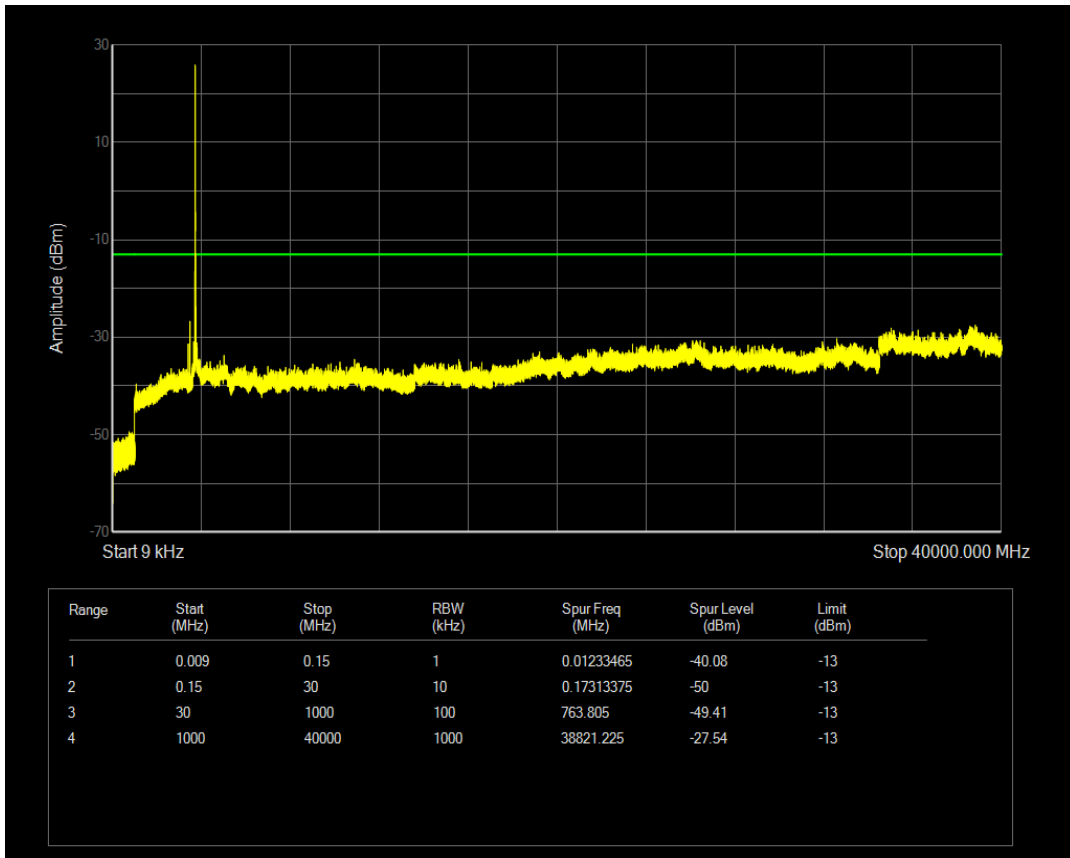
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=650000 RB=1 @188



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



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=1 @188

