

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	26.60	-3.6	23.00	30.00	PASS
n78(3700-3800)	30	70	649000	1@1	DFT_BPSK	26.11	-3.6	22.51	30.00	PASS
n78(3700-3800)	30	70	649000	1@187	DFT_BPSK	26.03	-3.6	22.43	30.00	PASS
n78(3700-3800)	30	70	649000	90@45	DFT_QPSK	26.65	-3.6	23.05	30.00	PASS
n78(3700-3800)	30	70	649000	1@1	DFT_QPSK	26.02	-3.6	22.42	30.00	PASS
n78(3700-3800)	30	70	649000	1@187	DFT_QPSK	25.87	-3.6	22.27	30.00	PASS
n78(3700-3800)	30	70	649000	90@45	DFT_QAM16	25.64	-3.6	22.04	30.00	PASS
n78(3700-3800)	30	70	649000	1@1	DFT_QAM16	25.30	-3.6	21.70	30.00	PASS
n78(3700-3800)	30	70	649000	1@187	DFT_QAM16	25.25	-3.6	21.65	30.00	PASS
n78(3700-3800)	30	70	649000	90@45	DFT_QAM64	24.10	-3.6	20.50	30.00	PASS
n78(3700-3800)	30	70	649000	1@1	DFT_QAM64	23.76	-3.6	20.16	30.00	PASS
n78(3700-3800)	30	70	649000	1@187	DFT_QAM64	23.63	-3.6	20.03	30.00	PASS
n78(3700-3800)	30	70	649000	90@45	DFT_QAM256	22.24	-3.6	18.64	30.00	PASS
n78(3700-3800)	30	70	649000	1@1	DFT_QAM256	21.70	-3.6	18.10	30.00	PASS
n78(3700-3800)	30	70	649000	1@187	DFT_QAM256	21.65	-3.6	18.05	30.00	PASS
n78(3700-3800)	30	70	649000	95@47	CP_QPSK	25.14	-3.6	21.54	30.00	PASS
n78(3700-3800)	30	70	649000	1@1	CP_QPSK	24.59	-3.6	20.99	30.00	PASS
n78(3700-3800)	30	70	649000	1@187	CP_QPSK	24.57	-3.6	20.97	30.00	PASS
n78(3700-3800)	30	70	649000	95@47	CP_QAM16	24.69	-3.6	21.09	30.00	PASS
n78(3700-3800)	30	70	649000	1@1	CP_QAM16	24.01	-3.6	20.41	30.00	PASS
n78(3700-3800)	30	70	649000	1@187	CP_QAM16	24.32	-3.6	20.72	30.00	PASS
n78(3700-3800)	30	70	649000	95@47	CP_QAM64	23.12	-3.6	19.52	30.00	PASS
n78(3700-3800)	30	70	649000	1@1	CP_QAM64	23.22	-3.6	19.62	30.00	PASS
n78(3700-3800)	30	70	649000	1@187	CP_QAM64	23.22	-3.6	19.62	30.00	PASS
n78(3700-3800)	30	70	649000	95@47	CP_QAM256	20.34	-3.6	16.74	30.00	PASS
n78(3700-3800)	30	70	649000	1@1	CP_QAM256	19.79	-3.6	16.19	30.00	PASS
n78(3700-3800)	30	70	649000	1@187	CP_QAM256	19.73	-3.6	16.13	30.00	PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	26.66	-3.6	23.06	30.00	PASS
n78(3700-3800)	30	70	650000	1@1	DFT_BPSK	26.19	-3.6	22.59	30.00	PASS
n78(3700-3800)	30	70	650000	1@187	DFT_BPSK	26.07	-3.6	22.47	30.00	PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	26.57	-3.6	22.97	30.00	PASS
n78(3700-3800)	30	70	650000	1@1	DFT_QPSK	25.98	-3.6	22.38	30.00	PASS
n78(3700-3800)	30	70	650000	1@187	DFT_QPSK	25.89	-3.6	22.29	30.00	PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QAM16	25.60	-3.6	22.00	30.00	PASS
n78(3700-3800)	30	70	650000	1@1	DFT_QAM16	25.37	-3.6	21.77	30.00	PASS
n78(3700-3800)	30	70	650000	1@187	DFT_QAM16	25.24	-3.6	21.64	30.00	PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QAM64	24.07	-3.6	20.47	30.00	PASS
n78(3700-3800)	30	70	650000	1@1	DFT_QAM64	23.77	-3.6	20.17	30.00	PASS

n78(3700-3800)	30	70	650000	1@187	DFT_QAM64	23.68	-3.6	20.08	30.00	PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QAM256	22.25	-3.6	18.65	30.00	PASS
n78(3700-3800)	30	70	650000	1@1	DFT_QAM256	21.75	-3.6	18.15	30.00	PASS
n78(3700-3800)	30	70	650000	1@187	DFT_QAM256	21.56	-3.6	17.96	30.00	PASS
n78(3700-3800)	30	70	650000	95@47	CP_QPSK	25.09	-3.6	21.49	30.00	PASS
n78(3700-3800)	30	70	650000	1@1	CP_QPSK	24.70	-3.6	21.10	30.00	PASS
n78(3700-3800)	30	70	650000	1@187	CP_QPSK	24.56	-3.6	20.96	30.00	PASS
n78(3700-3800)	30	70	650000	95@47	CP_QAM16	24.58	-3.6	20.98	30.00	PASS
n78(3700-3800)	30	70	650000	1@1	CP_QAM16	23.99	-3.6	20.39	30.00	PASS
n78(3700-3800)	30	70	650000	1@187	CP_QAM16	23.84	-3.6	20.24	30.00	PASS
n78(3700-3800)	30	70	650000	95@47	CP_QAM64	23.09	-3.6	19.49	30.00	PASS
n78(3700-3800)	30	70	650000	1@1	CP_QAM64	22.71	-3.6	19.11	30.00	PASS
n78(3700-3800)	30	70	650000	1@187	CP_QAM64	23.11	-3.6	19.51	30.00	PASS
n78(3700-3800)	30	70	650000	95@47	CP_QAM256	20.30	-3.6	16.70	30.00	PASS
n78(3700-3800)	30	70	650000	1@1	CP_QAM256	20.03	-3.6	16.43	30.00	PASS
n78(3700-3800)	30	70	650000	1@187	CP_QAM256	19.78	-3.6	16.18	30.00	PASS
n78(3700-3800)	30	70	651000	90@45	DFT_BPSK	26.52	-3.6	22.92	30.00	PASS
n78(3700-3800)	30	70	651000	1@1	DFT_BPSK	26.13	-3.6	22.53	30.00	PASS
n78(3700-3800)	30	70	651000	1@187	DFT_BPSK	25.92	-3.6	22.32	30.00	PASS
n78(3700-3800)	30	70	651000	90@45	DFT_QPSK	26.52	-3.6	22.92	30.00	PASS
n78(3700-3800)	30	70	651000	1@1	DFT_QPSK	25.99	-3.6	22.39	30.00	PASS
n78(3700-3800)	30	70	651000	1@187	DFT_QPSK	25.72	-3.6	22.12	30.00	PASS
n78(3700-3800)	30	70	651000	90@45	DFT_QAM16	25.55	-3.6	21.95	30.00	PASS
n78(3700-3800)	30	70	651000	1@1	DFT_QAM16	25.29	-3.6	21.69	30.00	PASS
n78(3700-3800)	30	70	651000	1@187	DFT_QAM16	25.11	-3.6	21.51	30.00	PASS
n78(3700-3800)	30	70	651000	90@45	DFT_QAM64	24.06	-3.6	20.46	30.00	PASS
n78(3700-3800)	30	70	651000	1@1	DFT_QAM64	23.80	-3.6	20.20	30.00	PASS
n78(3700-3800)	30	70	651000	1@187	DFT_QAM64	23.49	-3.6	19.89	30.00	PASS
n78(3700-3800)	30	70	651000	90@45	DFT_QAM256	22.01	-3.6	18.41	30.00	PASS
n78(3700-3800)	30	70	651000	1@1	DFT_QAM256	21.72	-3.6	18.12	30.00	PASS
n78(3700-3800)	30	70	651000	1@187	DFT_QAM256	21.50	-3.6	17.90	30.00	PASS
n78(3700-3800)	30	70	651000	95@47	CP_QPSK	25.01	-3.6	21.41	30.00	PASS
n78(3700-3800)	30	70	651000	1@1	CP_QPSK	24.71	-3.6	21.11	30.00	PASS
n78(3700-3800)	30	70	651000	1@187	CP_QPSK	24.52	-3.6	20.92	30.00	PASS
n78(3700-3800)	30	70	651000	95@47	CP_QAM16	24.55	-3.6	20.95	30.00	PASS
n78(3700-3800)	30	70	651000	1@1	CP_QAM16	24.40	-3.6	20.80	30.00	PASS
n78(3700-3800)	30	70	651000	1@187	CP_QAM16	24.19	-3.6	20.59	30.00	PASS
n78(3700-3800)	30	70	651000	95@47	CP_QAM64	23.07	-3.6	19.47	30.00	PASS
n78(3700-3800)	30	70	651000	1@1	CP_QAM64	22.88	-3.6	19.28	30.00	PASS
n78(3700-3800)	30	70	651000	1@187	CP_QAM64	22.69	-3.6	19.09	30.00	PASS
n78(3700-3800)	30	70	651000	95@47	CP_QAM256	20.20	-3.6	16.60	30.00	PASS
n78(3700-3800)	30	70	651000	1@1	CP_QAM256	19.97	-3.6	16.37	30.00	PASS
n78(3700-3800)	30	70	651000	1@187	CP_QAM256	19.66	-3.6	16.06	30.00	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	-29.57	-0.01	Within authorized band for 5G NR n78	PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	3.45	-30.79	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_BPSK	4.45	-34.19	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	3.87	-30.80	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	3.45	-31.26	-0.01		PASS
n78(3700-3800)	30	70	650000	90@45	DFT_QPSK	4.45	-37.82	-0.01		PASS

Note: Only the worst case shown in the report.

NV:

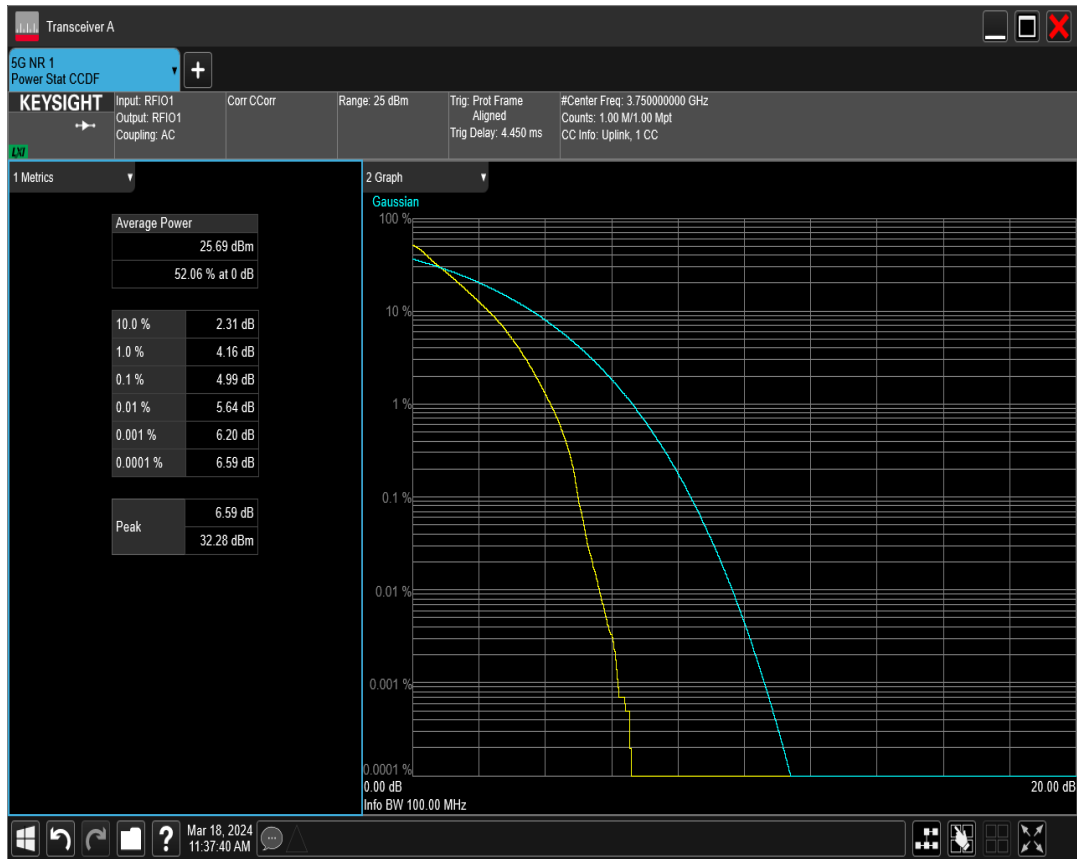
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Voltage (Vdc)	Result(Hz)	Result (ppm)	Limit (ppm)	Verdict
n78(3700-3800)	30	70	656000	135@67	DFT_BPSK	-30	-23.13	-0.01	Within authorized band for 5G NR n78	PASS
n78(3700-3800)	30	70	656000	135@67	DFT_BPSK	-20	-21.93	-0.01		PASS
n78(3700-3800)	30	70	656000	135@67	DFT_BPSK	-10	-26.01	-0.01		PASS
n78(3700-3800)	30	70	656000	135@67	DFT_BPSK	0	-22.43	-0.01		PASS
n78(3700-3800)	30	70	656000	135@67	DFT_BPSK	10	-21.47	-0.01		PASS
n78(3700-3800)	30	70	656000	135@67	DFT_BPSK	20	-22.94	-0.01		PASS
n78(3700-3800)	30	70	656000	135@67	DFT_BPSK	30	-26.15	-0.01		PASS
n78(3700-3800)	30	70	656000	135@67	DFT_BPSK	40	-22.32	-0.01		PASS
n78(3700-3800)	30	70	656000	135@67	DFT_BPSK	50	-21.5	-0.01		PASS
n78(3700-3800)	30	70	656000	135@67	DFT_QPSK	-30	-23.26	-0.01		PASS
n78(3700-3800)	30	70	656000	135@67	DFT_QPSK	-20	-23.46	-0.01		PASS
n78(3700-3800)	30	70	656000	135@67	DFT_QPSK	-10	-21.91	-0.01		PASS
n78(3700-3800)	30	70	656000	135@67	DFT_QPSK	0	-23.76	-0.01		PASS
n78(3700-3800)	30	70	656000	135@67	DFT_QPSK	10	-21.48	-0.01		PASS
n78(3700-3800)	30	70	656000	135@67	DFT_QPSK	20	-26.11	-0.01		PASS
n78(3700-3800)	30	70	656000	135@67	DFT_QPSK	30	-22.02	-0.01		PASS
n78(3700-3800)	30	70	656000	135@67	DFT_QPSK	40	-21.08	-0.01		PASS
n78(3700-3800)	30	70	656000	135@67	DFT_QPSK	50	-22.38	-0.01		PASS

Note: Only the worst case shown in the report.

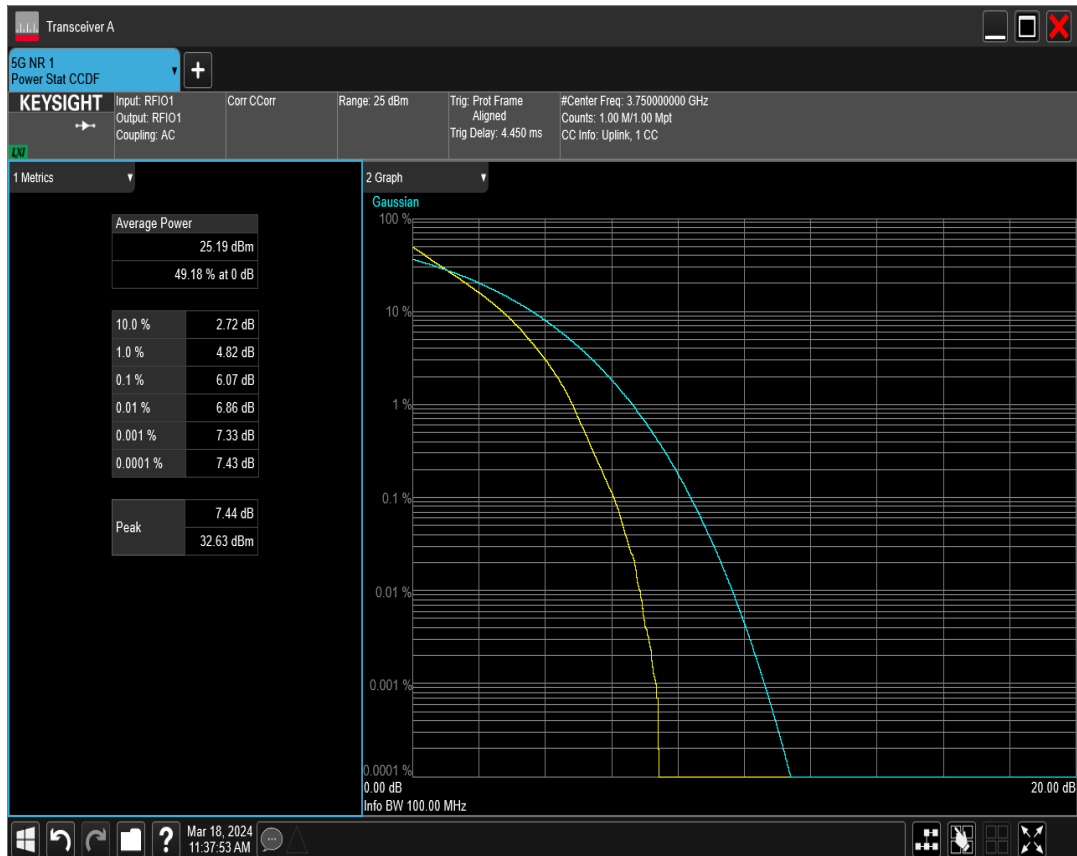
3 Peak-to-Average Ratio for NR FR1

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	4.99	13	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QPSK	6.07	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	7.07	13	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QAM256	7.17	13	PASS

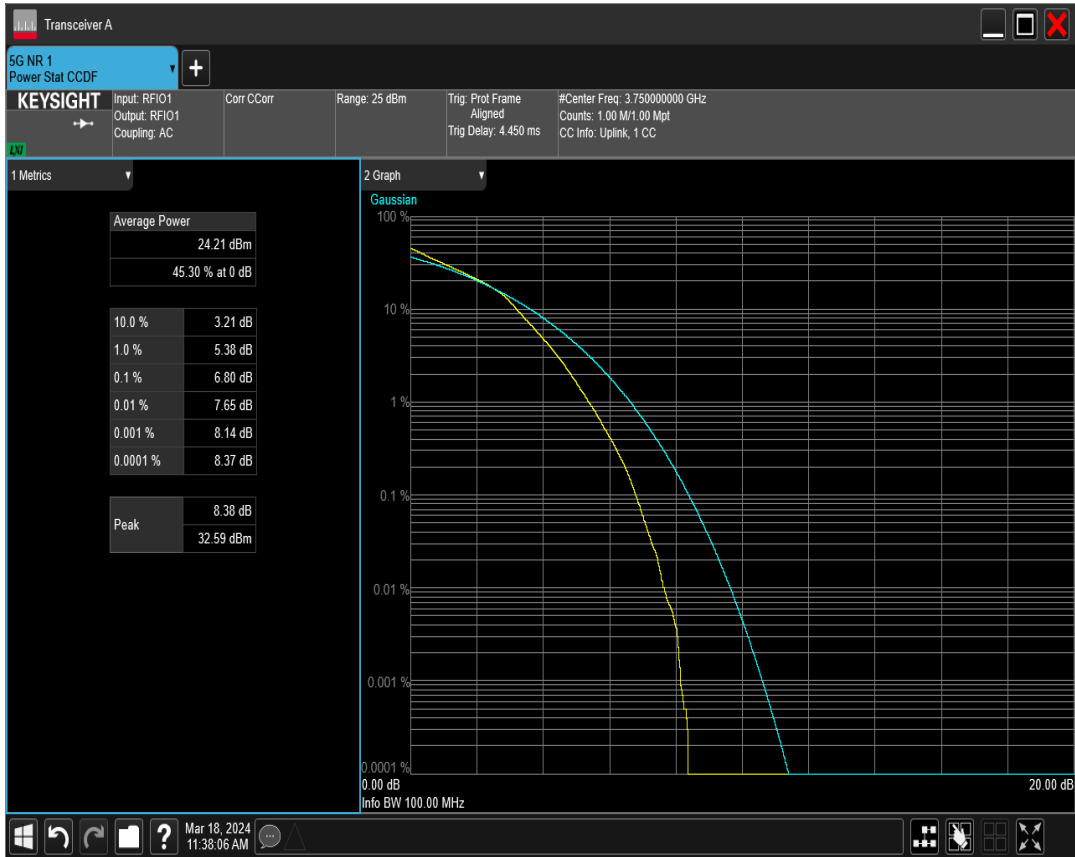
n78(3700-3800) SCS=30kHz DFT_BPSK BW=70MHz Channel=650000 RB=180@0



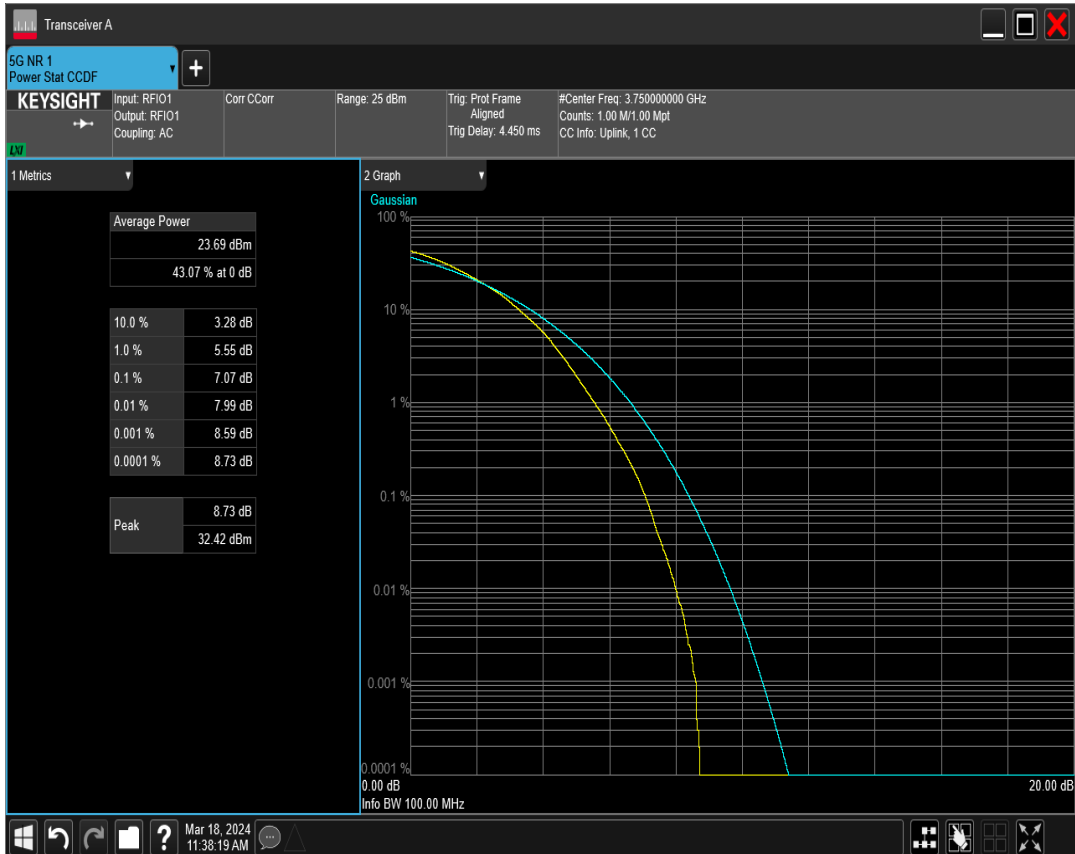
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=650000 RB=180@0



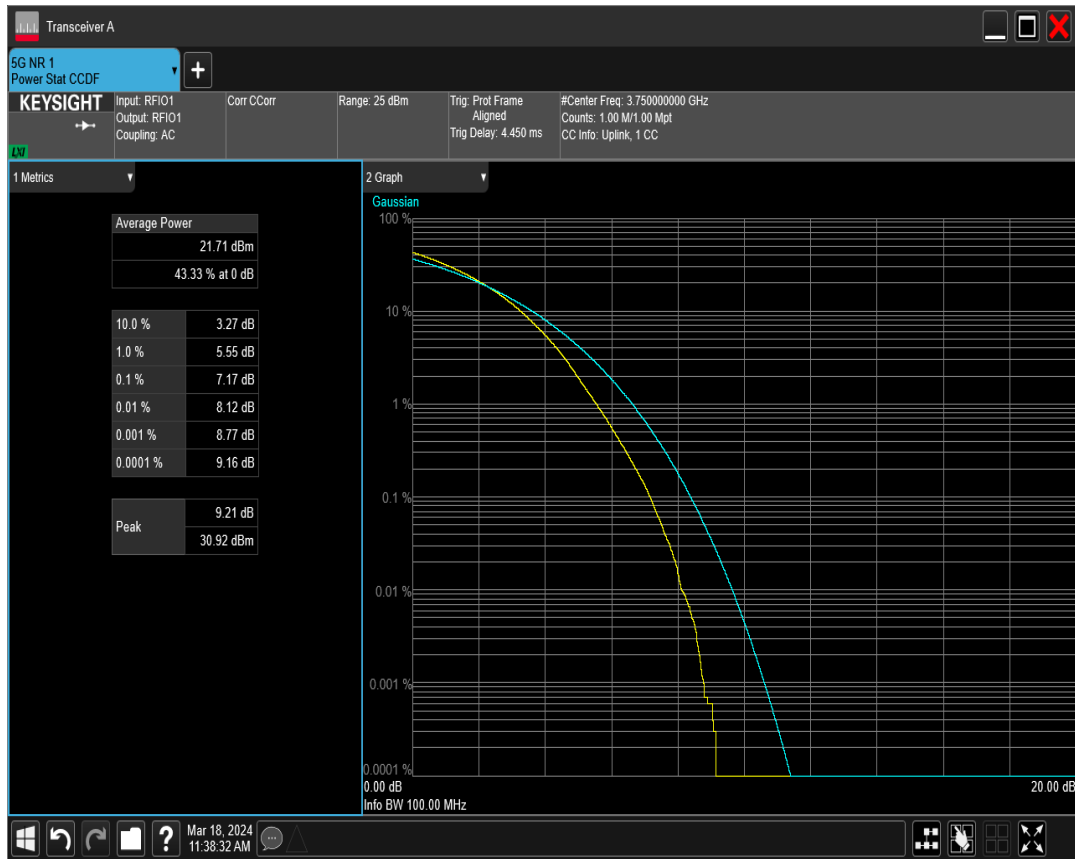
n78(3700-3800) SCS=30kHz DFT_QAM16 BW=70MHz Channel=650000 RB=180@0



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



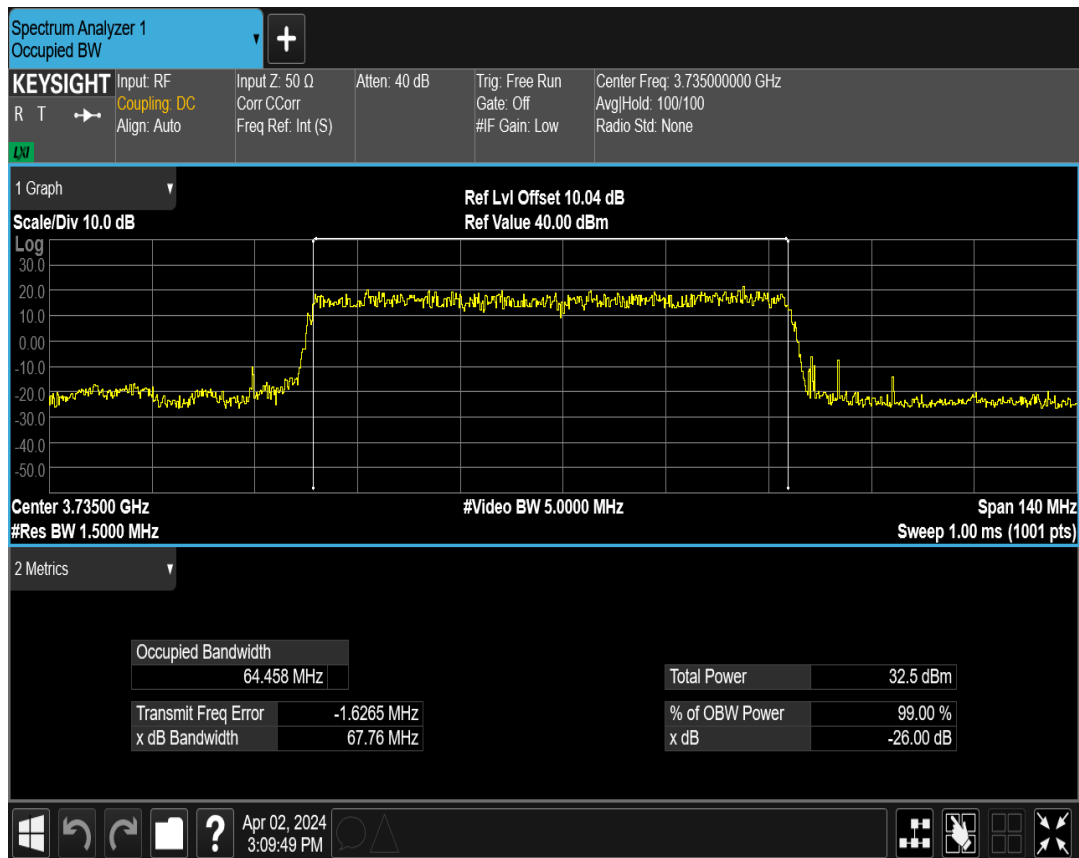
n78(3700-3800) SCS=30kHz DFT_QAM256 BW=70MHz Channel=650000 RB=180@0



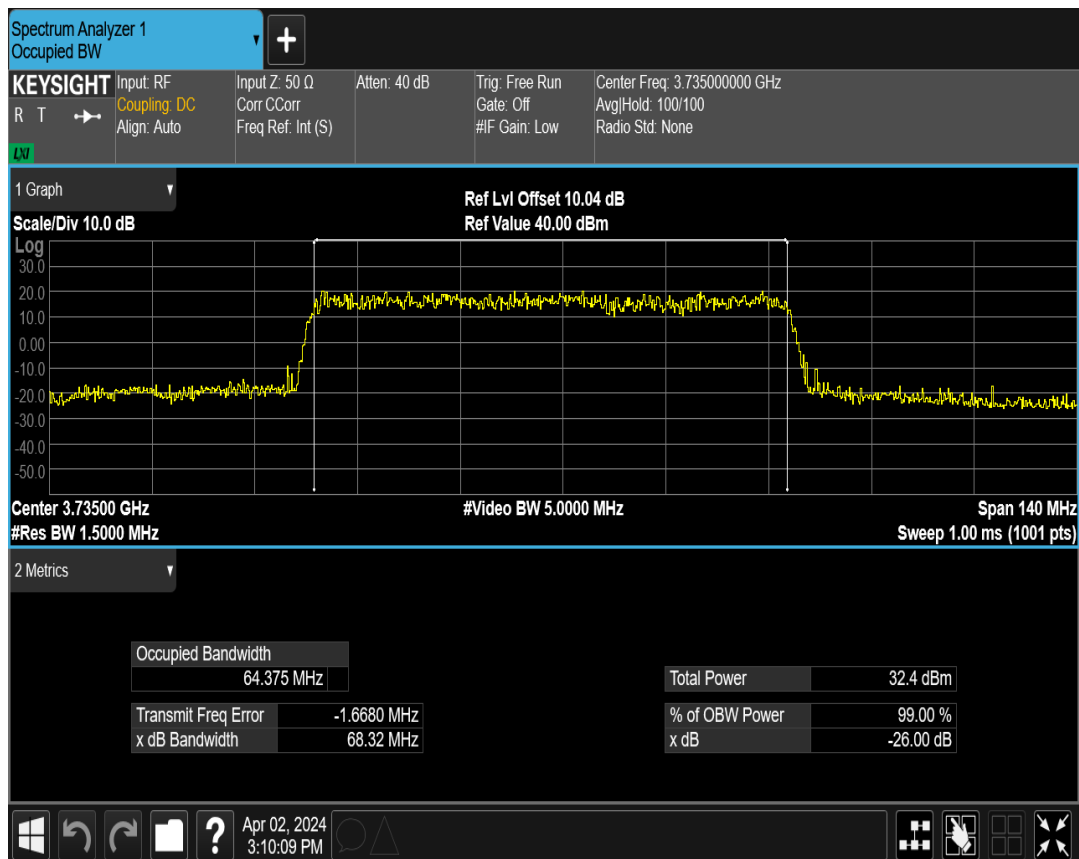
4 Occupied bandwidth for NR FR1

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	64.458	67.765	PASS
n78(3700-3800)	30	70	649000	180@0	DFT_QPSK	64.375	68.325	PASS
n78(3700-3800)	30	70	649000	180@0	DFT_QAM16	64.633	67.901	PASS
n78(3700-3800)	30	70	649000	180@0	DFT_QAM64	64.321	67.471	PASS
n78(3700-3800)	30	70	649000	180@0	DFT_QAM256	64.896	70.015	PASS
n78(3700-3800)	30	70	649000	189@0	CP_QPSK	67.365	71.371	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_BPSK	64.559	67.756	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QPSK	64.419	67.625	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QAM16	64.500	67.900	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QAM64	64.407	67.954	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QAM256	64.038	67.913	PASS
n78(3700-3800)	30	70	650000	189@0	CP_QPSK	67.658	70.882	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_BPSK	52.158	53.881	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_QPSK	64.362	68.227	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_QAM16	64.345	67.802	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_QAM64	64.499	67.704	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_QAM256	64.141	68.894	PASS
n78(3700-3800)	30	70	651000	189@0	CP_QPSK	67.669	71.002	PASS

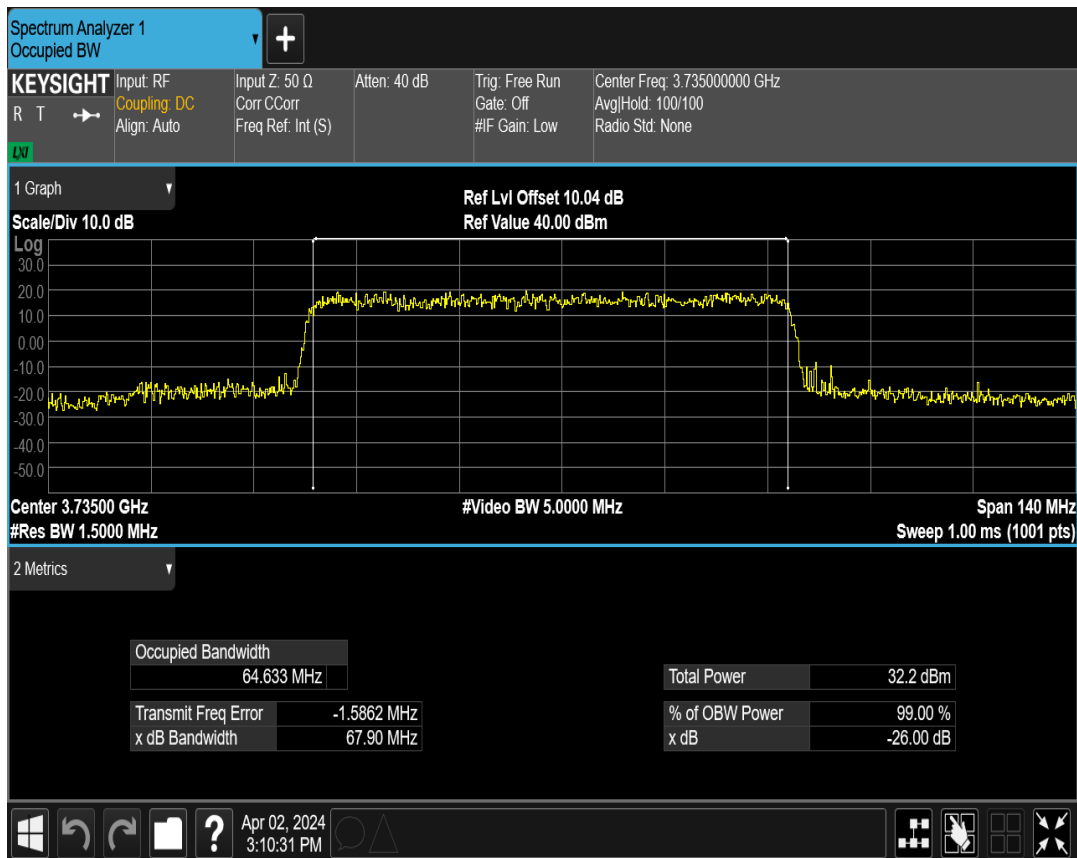
n78(3700-3800) SCS=30kHz DFT_BPSK BW=70MHz Channel=649000 RB=180@0



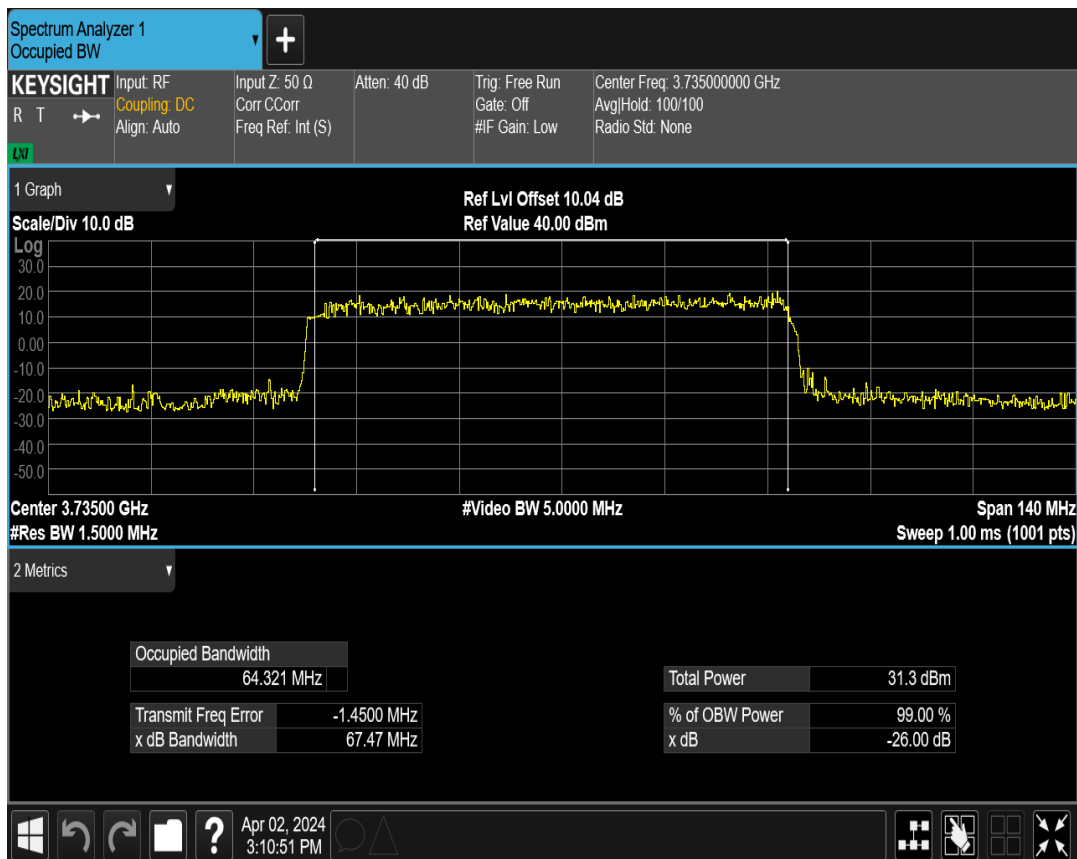
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=649000 RB=180@0



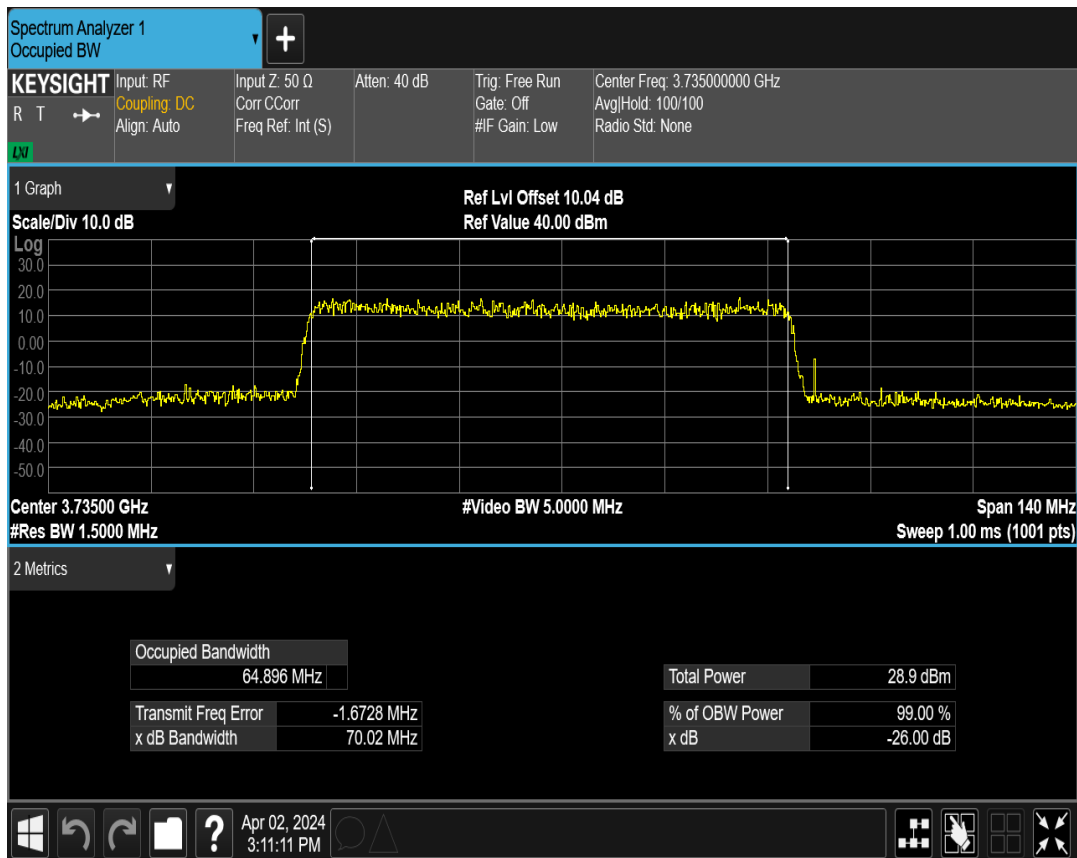
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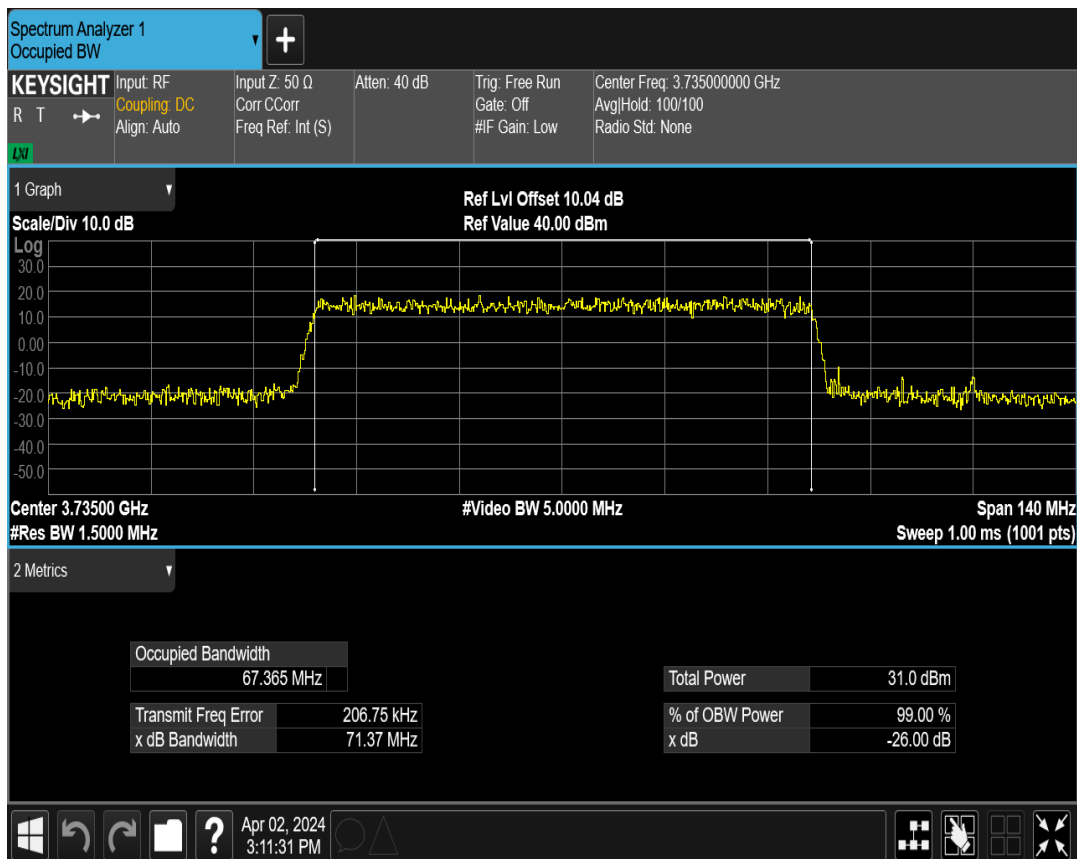
n78(3700-3800) SCS=30kHz DFT_QAM64 BW=70MHz Channel=649000 RB=180@0



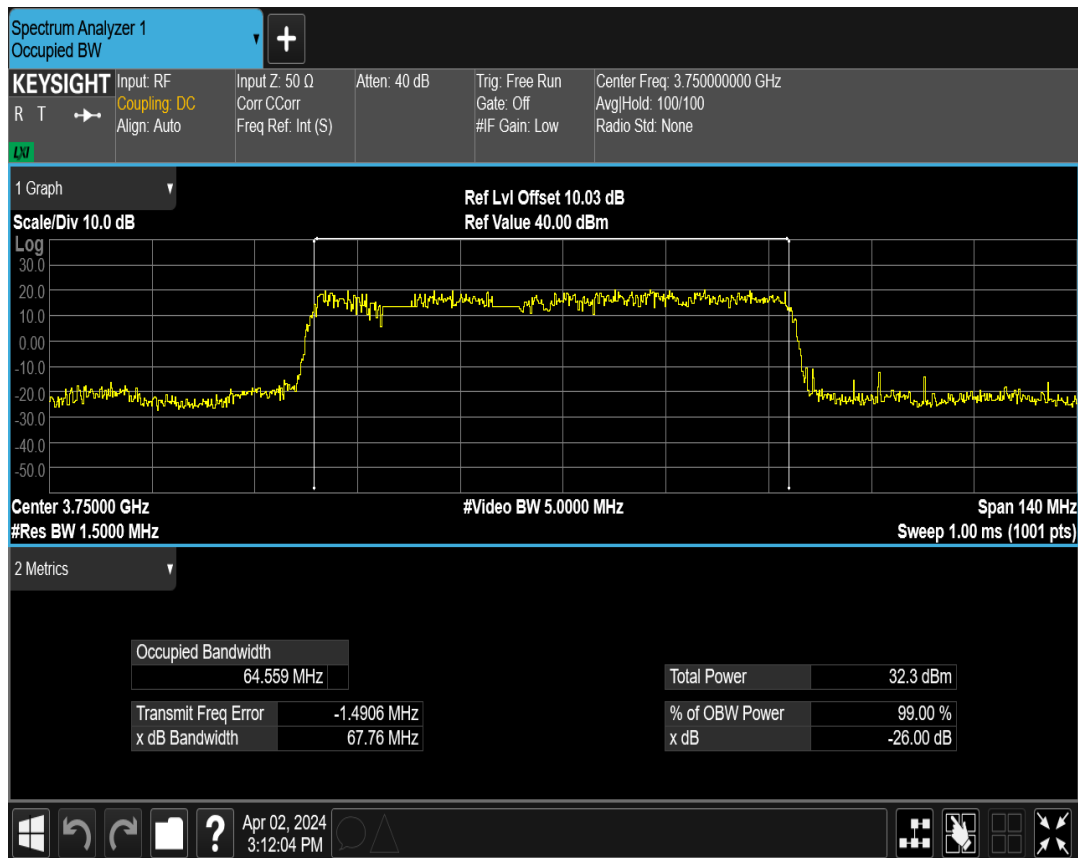
n78(3700-3800) SCS=30kHz DFT_QAM256 BW=70MHz Channel=649000 RB=180@0



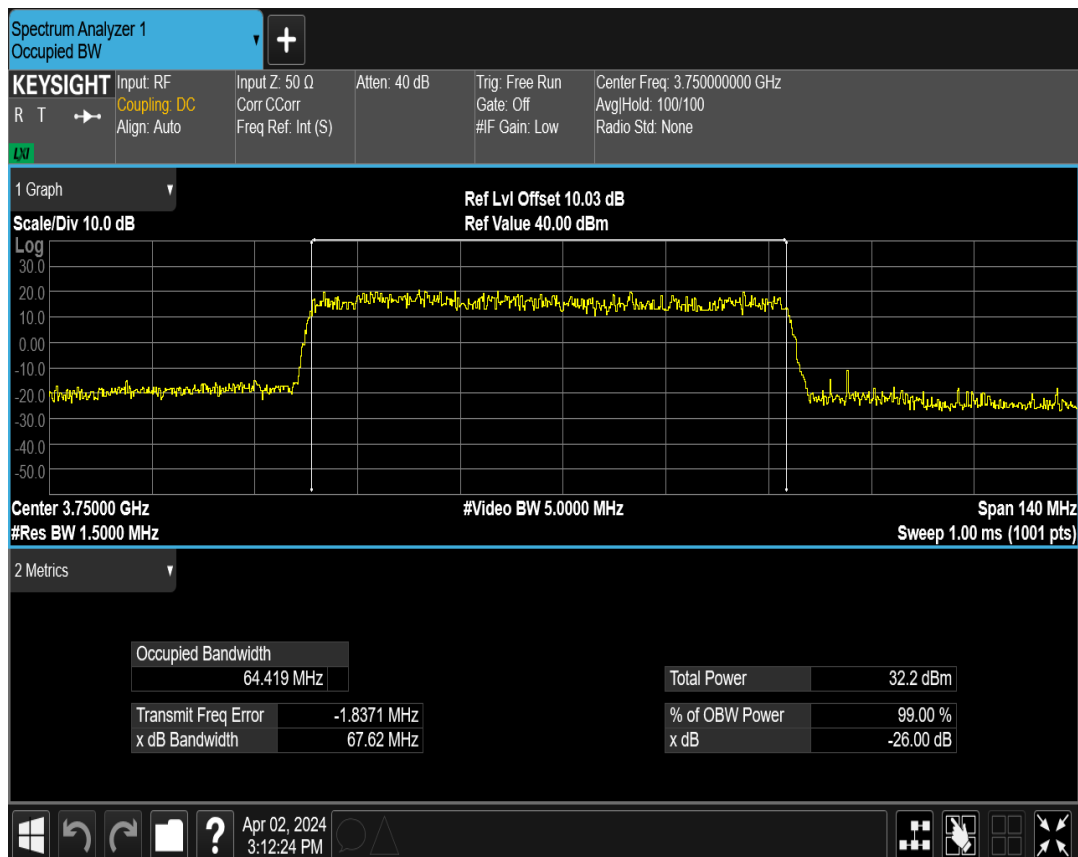
n78(3700-3800) SCS=30kHz CP_QPSK BW=70MHz Channel=649000 RB=189@0



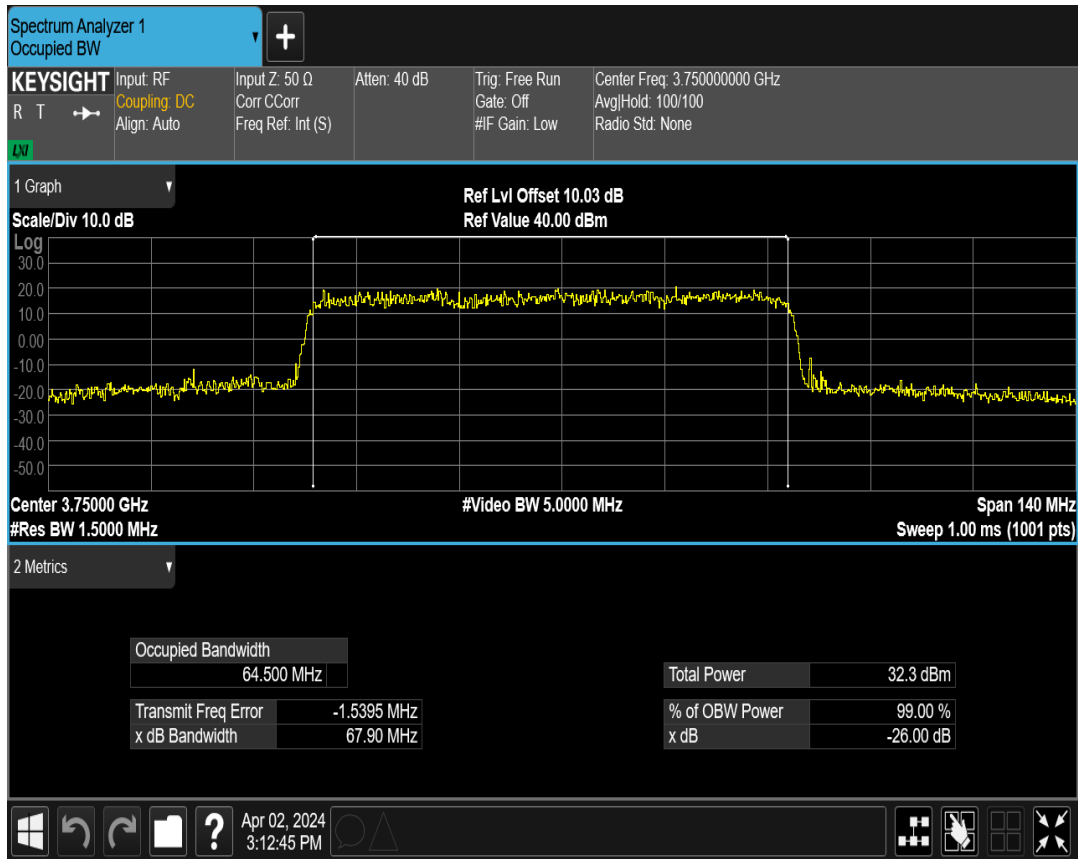
n78(3700-3800) SCS=30kHz DFT_BPSK BW=70MHz Channel=650000 RB=180@0



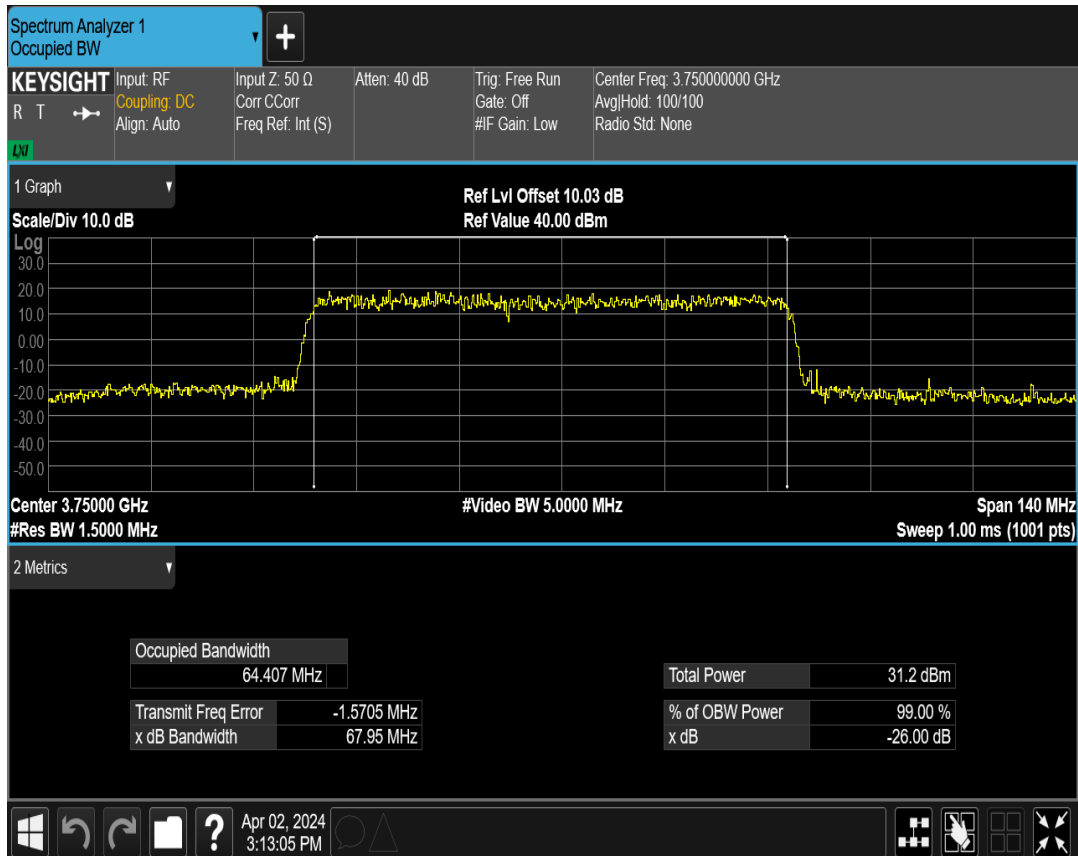
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=650000 RB=180@0



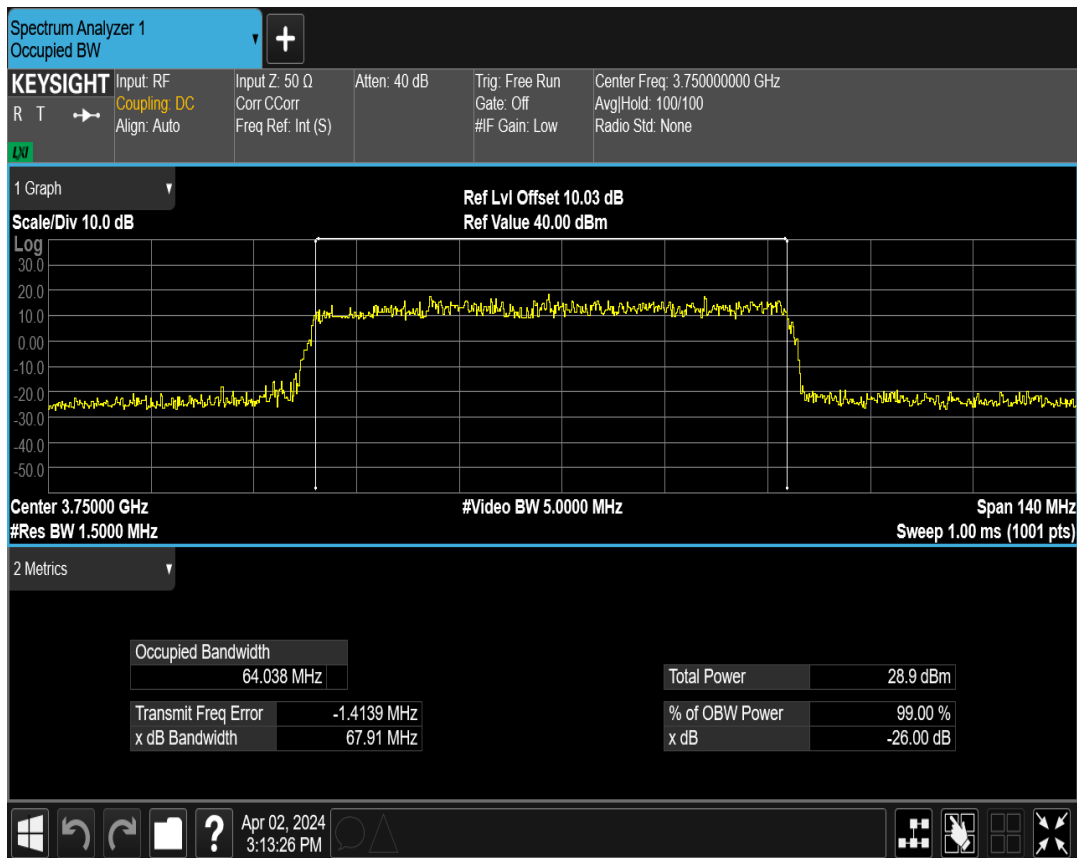
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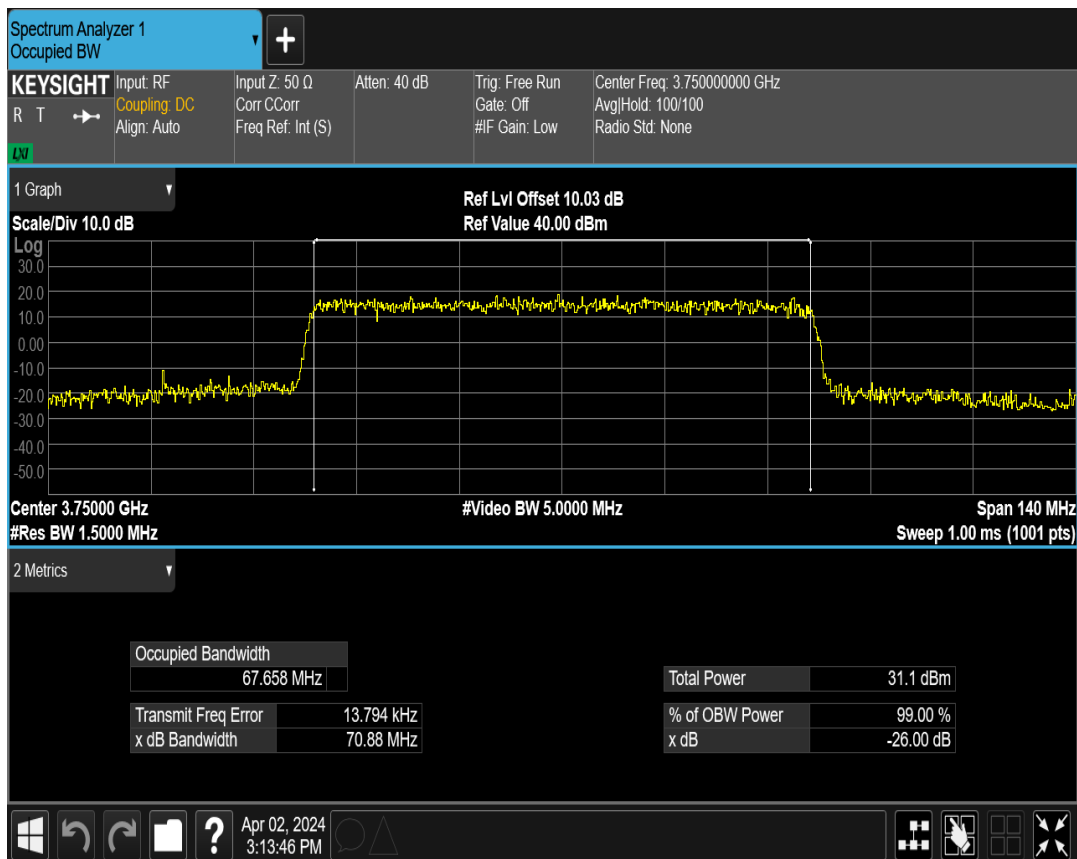
n78(3700-3800) SCS=30kHz DFT_QAM64 BW=70MHz Channel=650000 RB=180@0



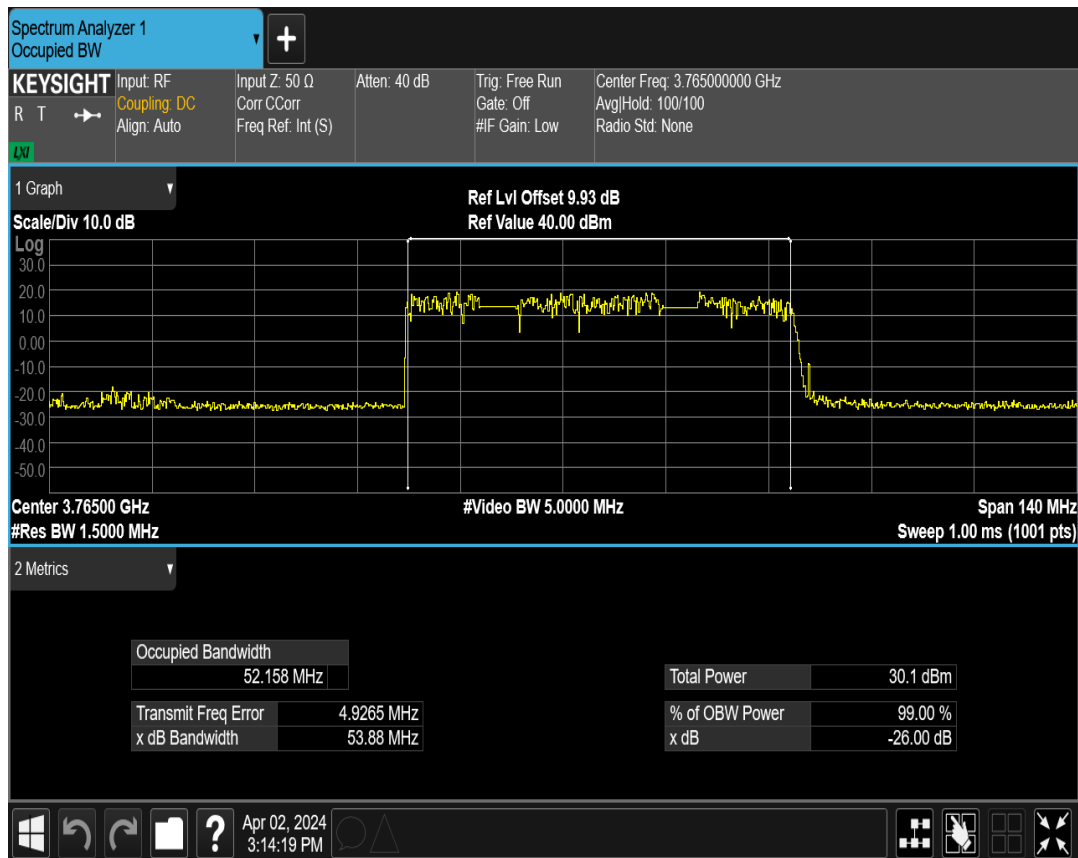
n78(3700-3800) SCS=30kHz DFT_QAM256 BW=70MHz Channel=650000 RB=180@0



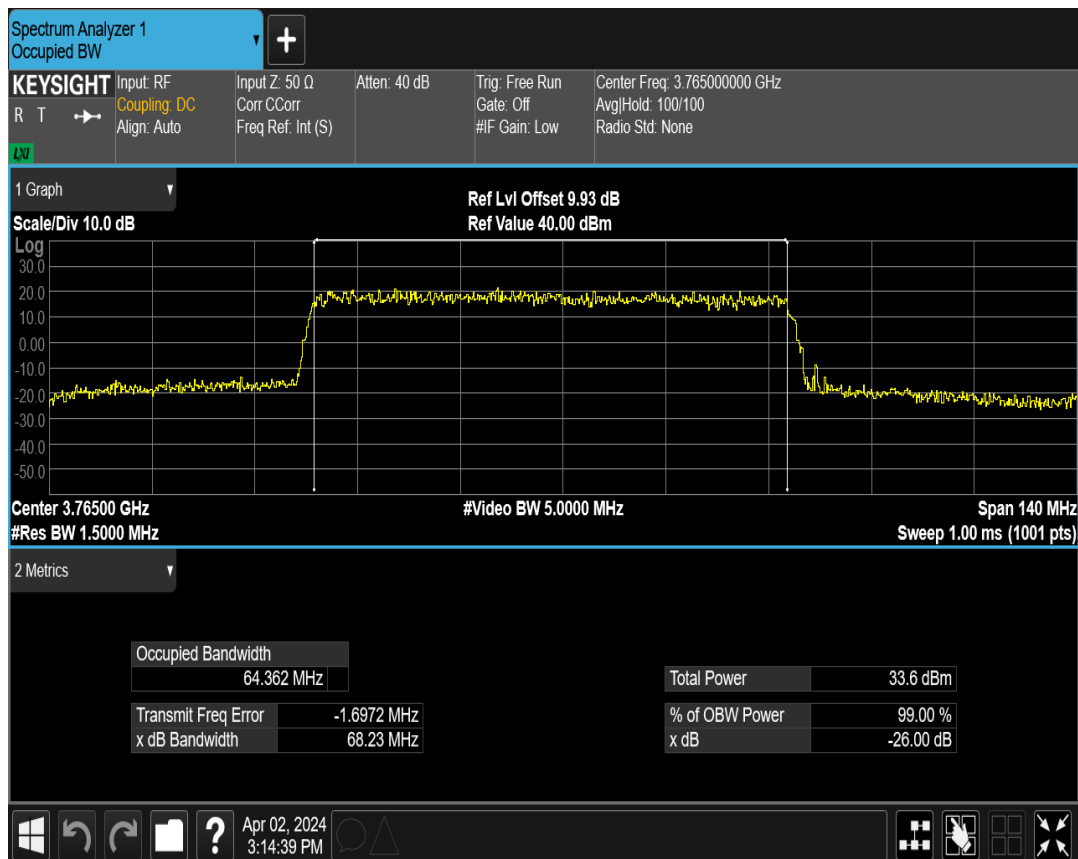
n78(3700-3800) SCS=30kHz CP_QPSK BW=70MHz Channel=650000 RB=189@0



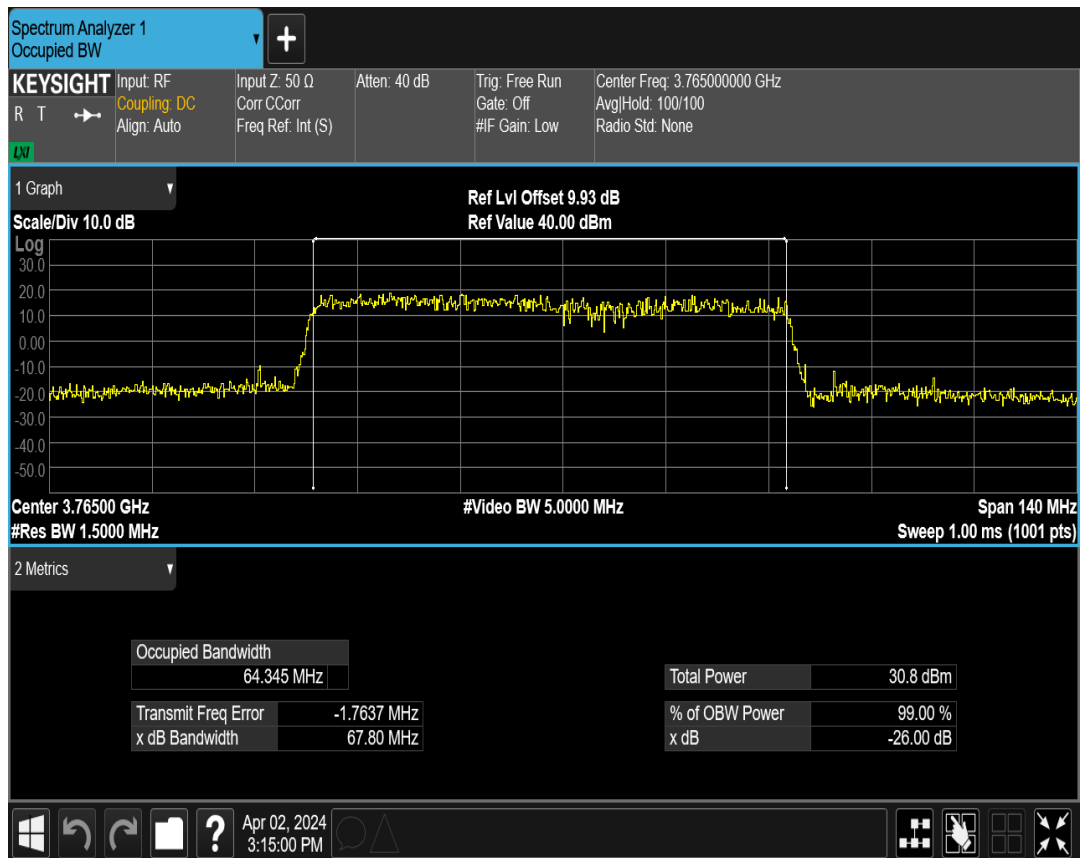
n78(3700-3800) SCS=30kHz DFT_BPSK BW=70MHz Channel=651000 RB=180@0



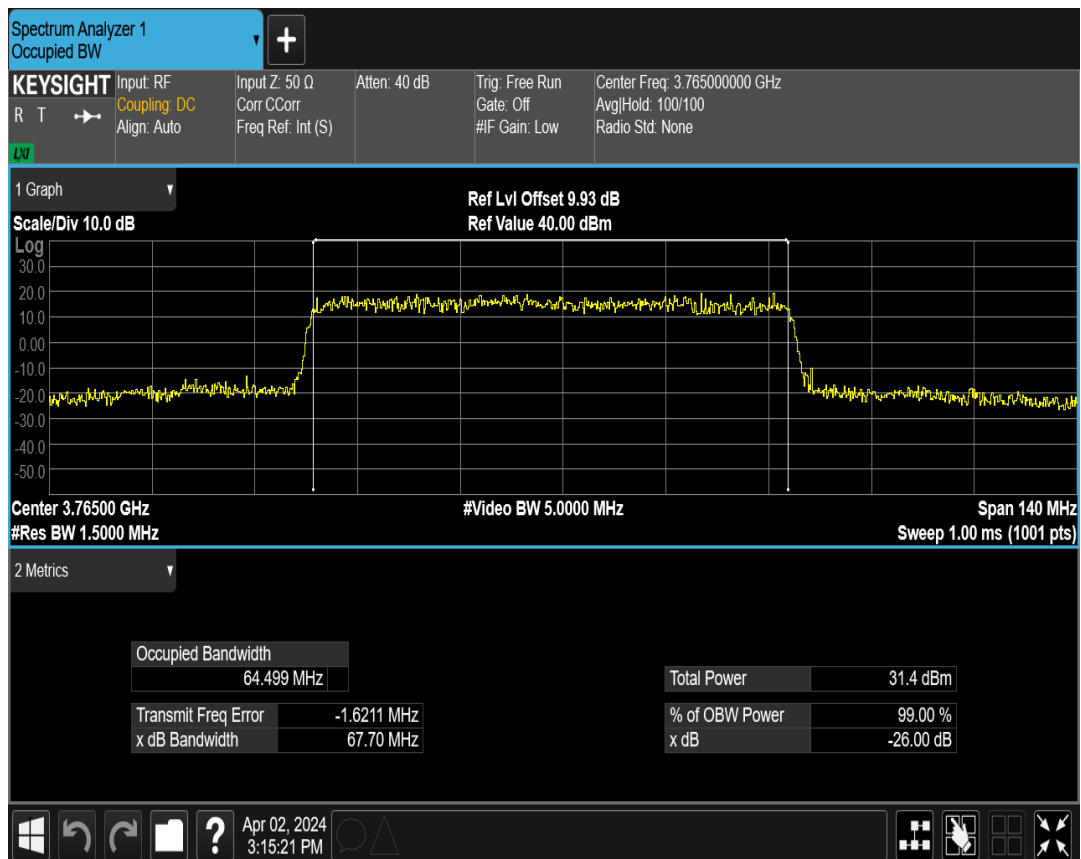
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=651000 RB=180@0



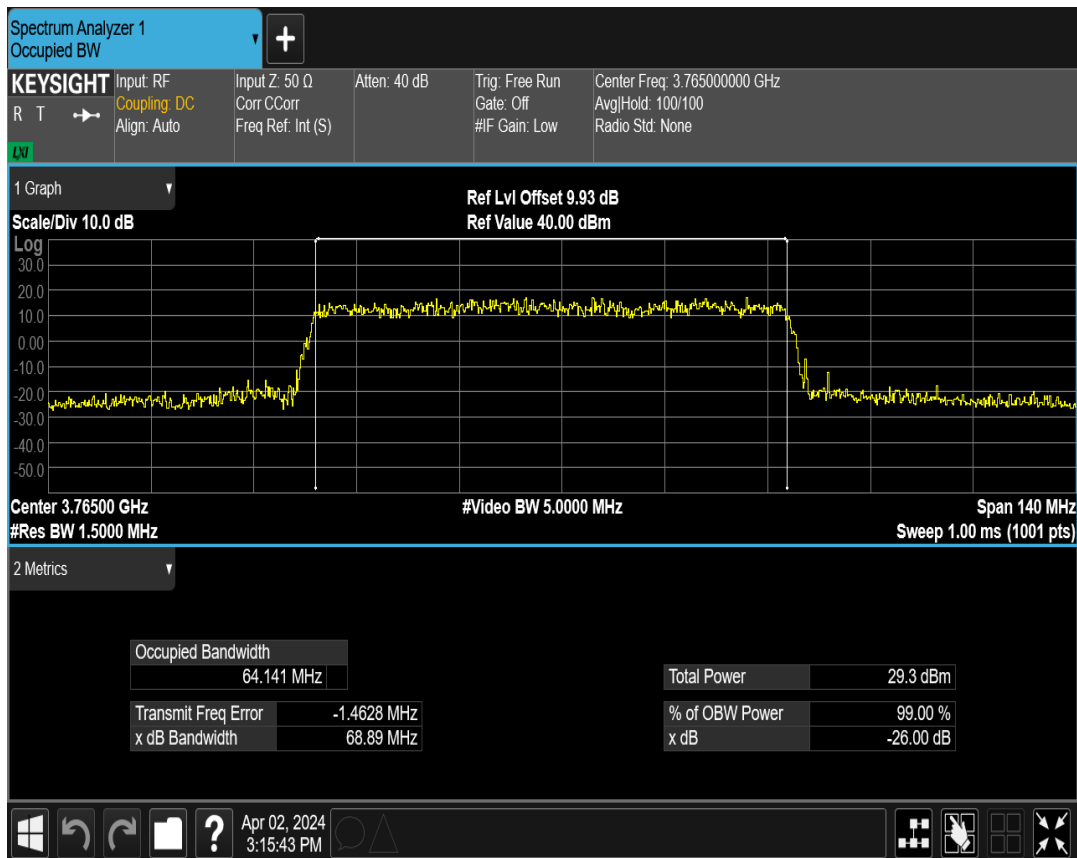
n78(3700-3800) SCS=30kHz DFT_QAM16 BW=70MHz Channel=651000 RB=180@0



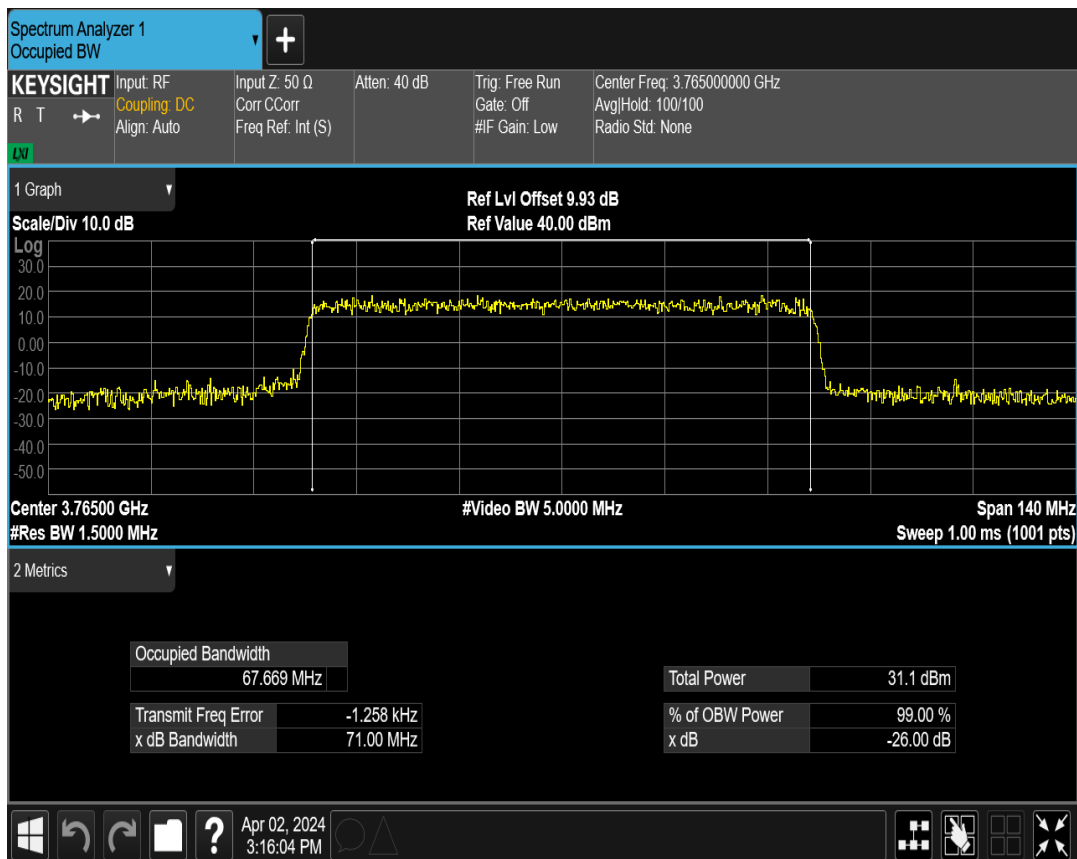
n78(3700-3800) SCS=30kHz DFT_QAM64 BW=70MHz Channel=651000 RB=180@0



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



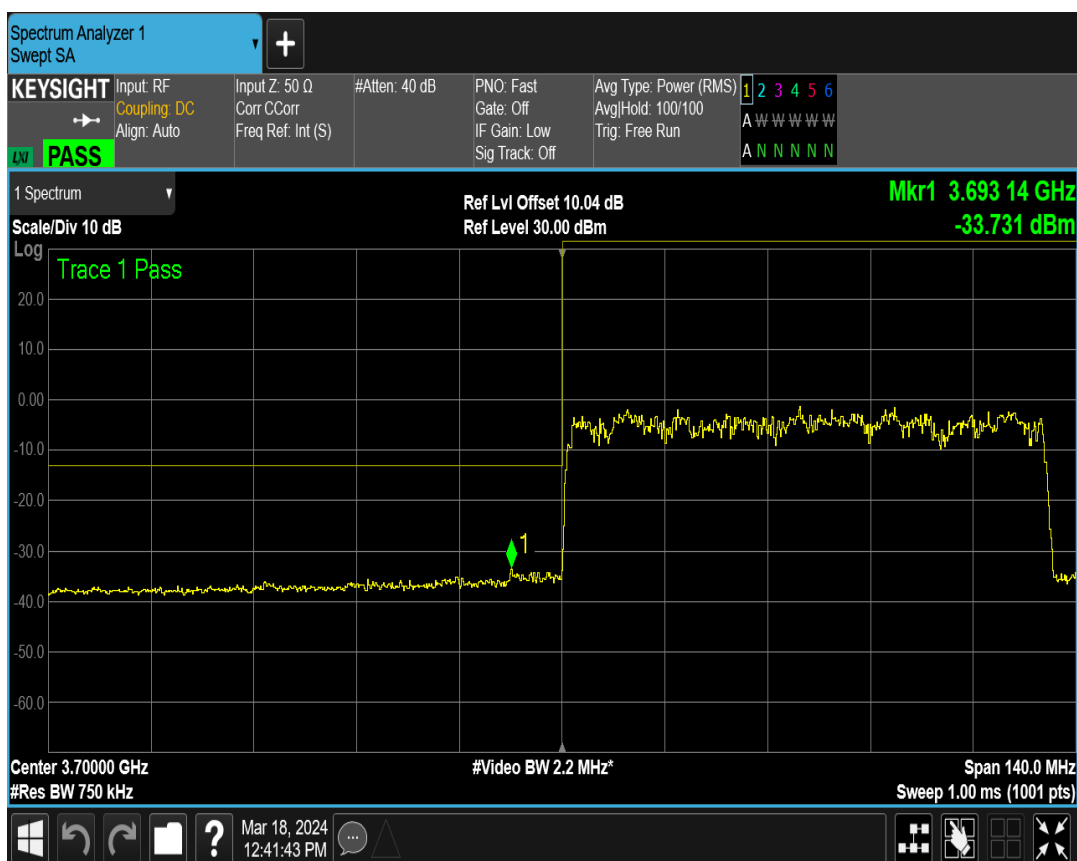
n78(3700-3800) SCS=30kHz CP_QPSK BW=70MHz Channel=651000 RB=189@0



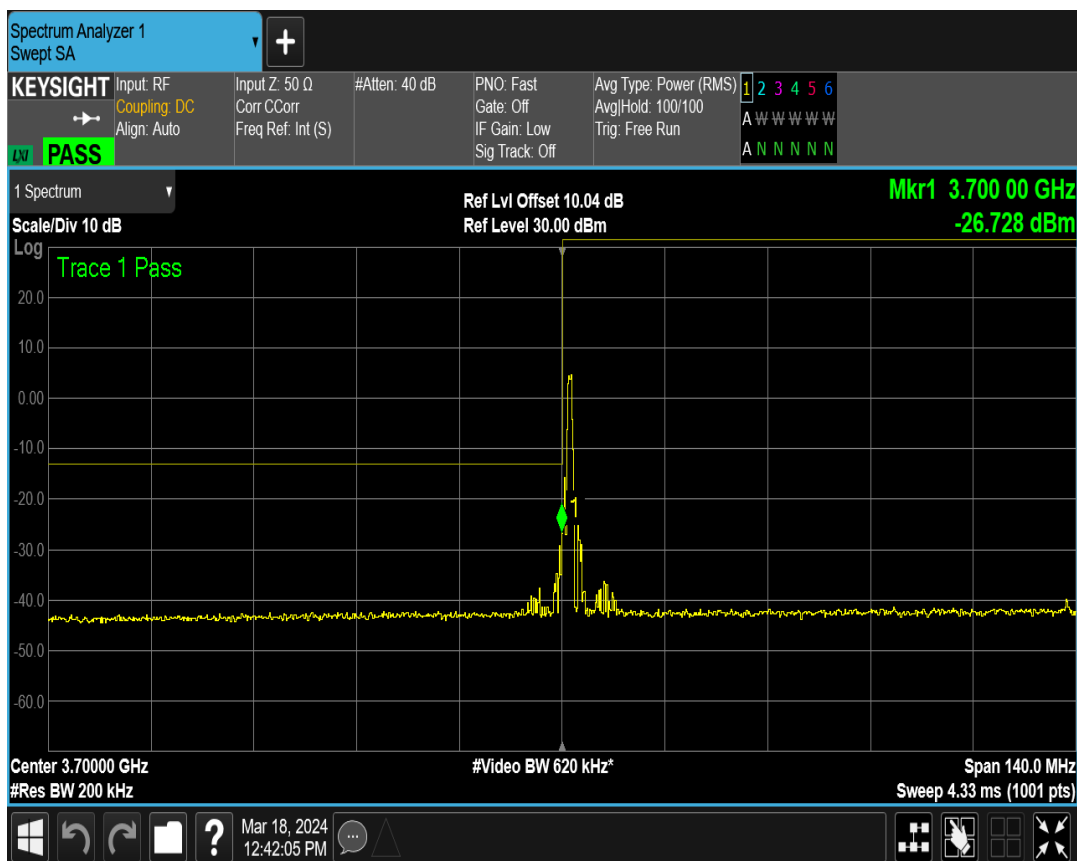
5 Band edge for NR FR1

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	3693.14	-33.73	-13	PASS
n78(3700-3800)	30	70	649000	1@0	DFT_QPSK	3700.00	-26.73	-13	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_QPSK	3800.28	-34.06	-13	PASS
n78(3700-3800)	30	70	651000	1@188	DFT_QPSK	3800.42	-33.93	-13	PASS

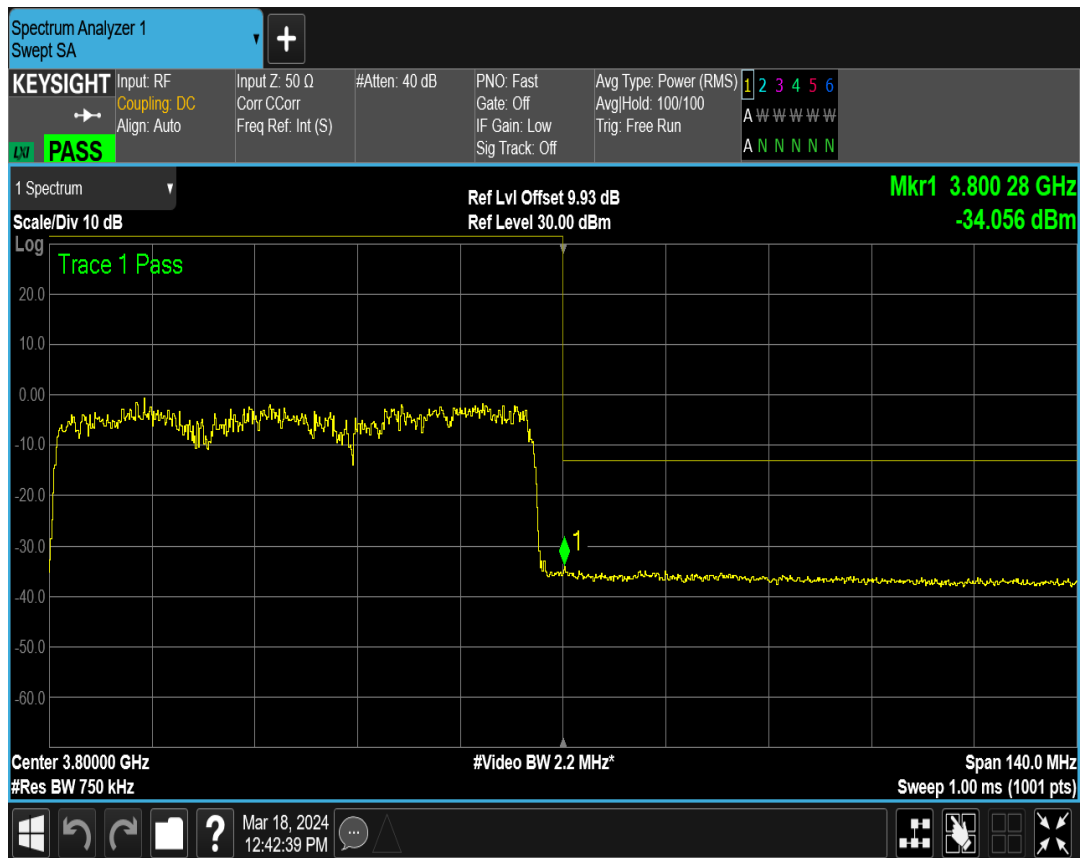
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=649000 RB=180@0



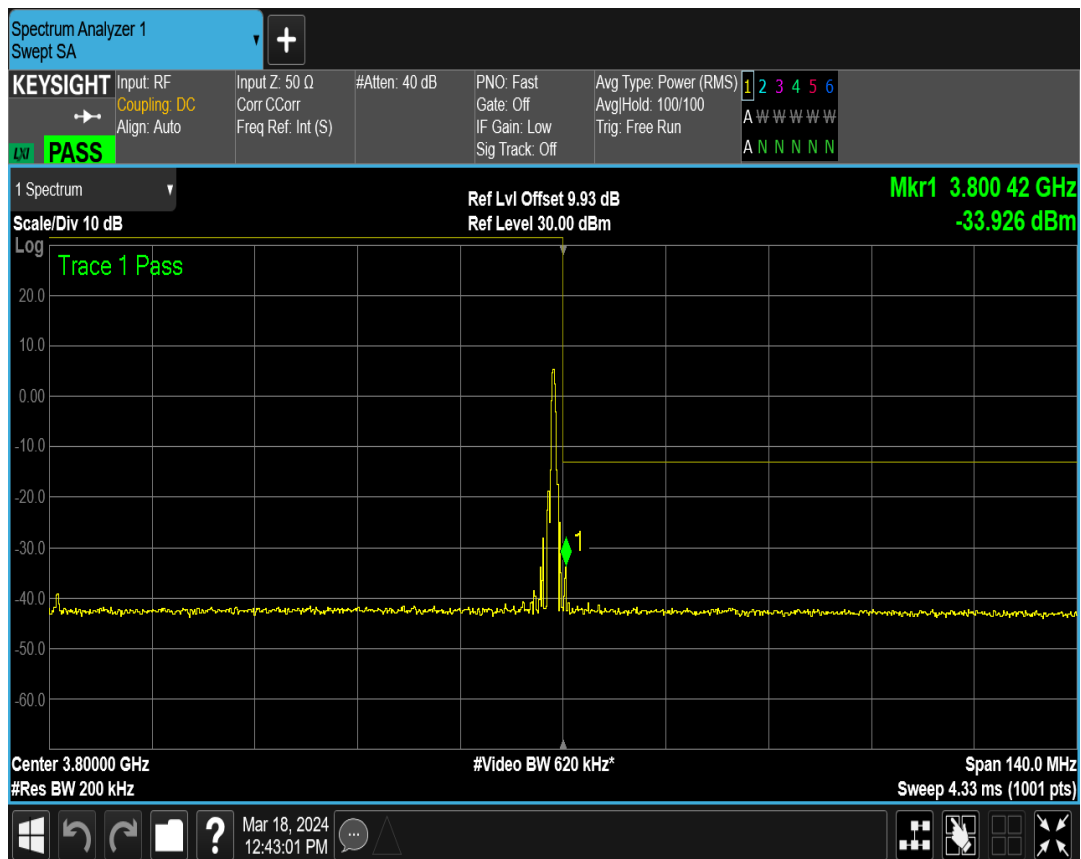
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=649000 RB=1@0



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



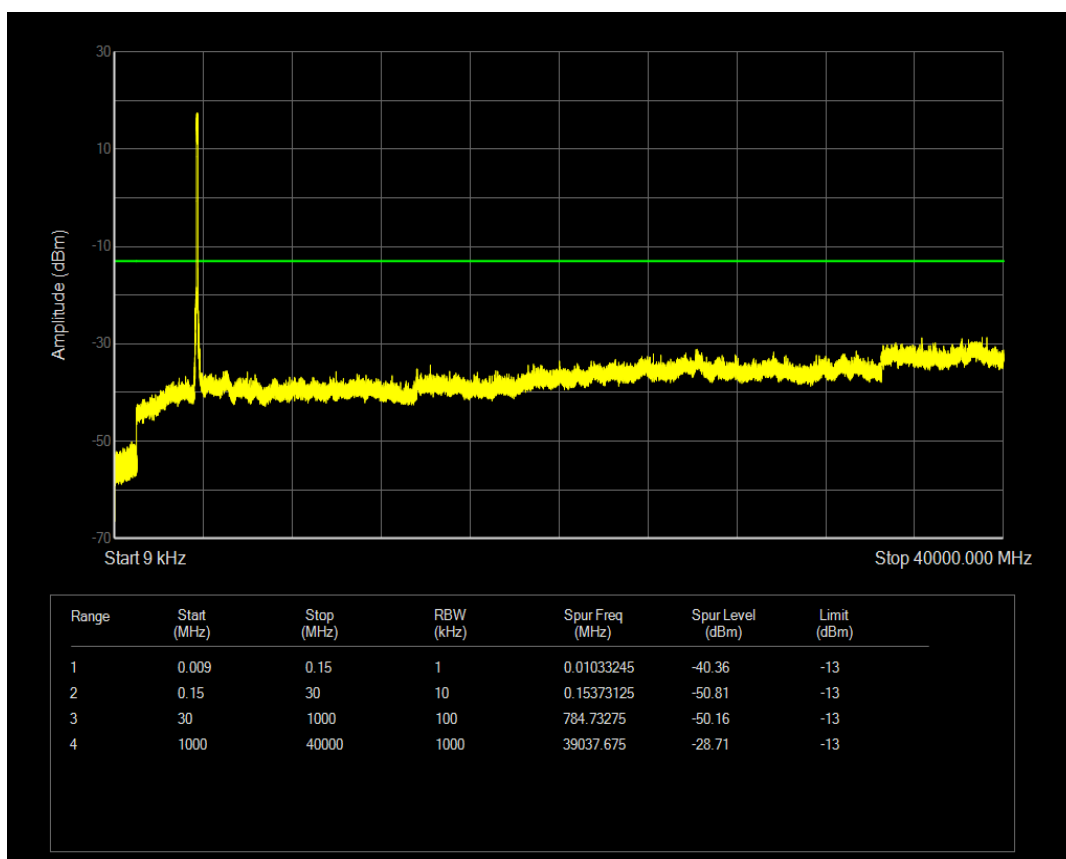
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=651000 RB=1@188



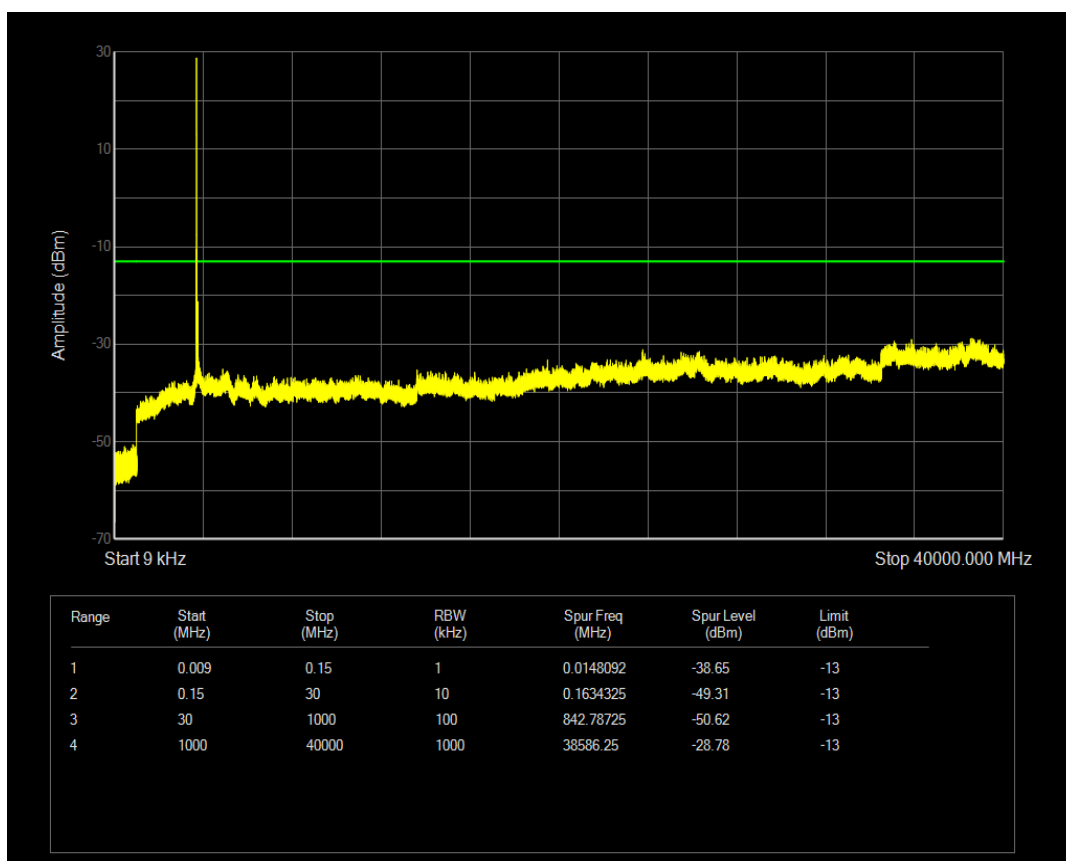
6 Out-of-band emissions for NR FR1

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	39037.68	-28.71	-13	PASS
n78(3700-3800)	30	70	649000	1@0	DFT_QPSK	38586.25	-28.78	-13	PASS
n78(3700-3800)	30	70	649000	1@188	DFT_QPSK	38525.80	-28.41	-13	PASS
n78(3700-3800)	30	70	650000	180@0	DFT_QPSK	38843.65	-28.82	-13	PASS
n78(3700-3800)	30	70	650000	1@0	DFT_QPSK	38408.80	-28.30	-13	PASS
n78(3700-3800)	30	70	650000	1@188	DFT_QPSK	38646.70	-28.38	-13	PASS
n78(3700-3800)	30	70	651000	180@0	DFT_QPSK	38839.75	-28.25	-13	PASS
n78(3700-3800)	30	70	651000	1@0	DFT_QPSK	36884.88	-29.05	-13	PASS
n78(3700-3800)	30	70	651000	1@188	DFT_QPSK	38828.05	-28.52	-13	PASS

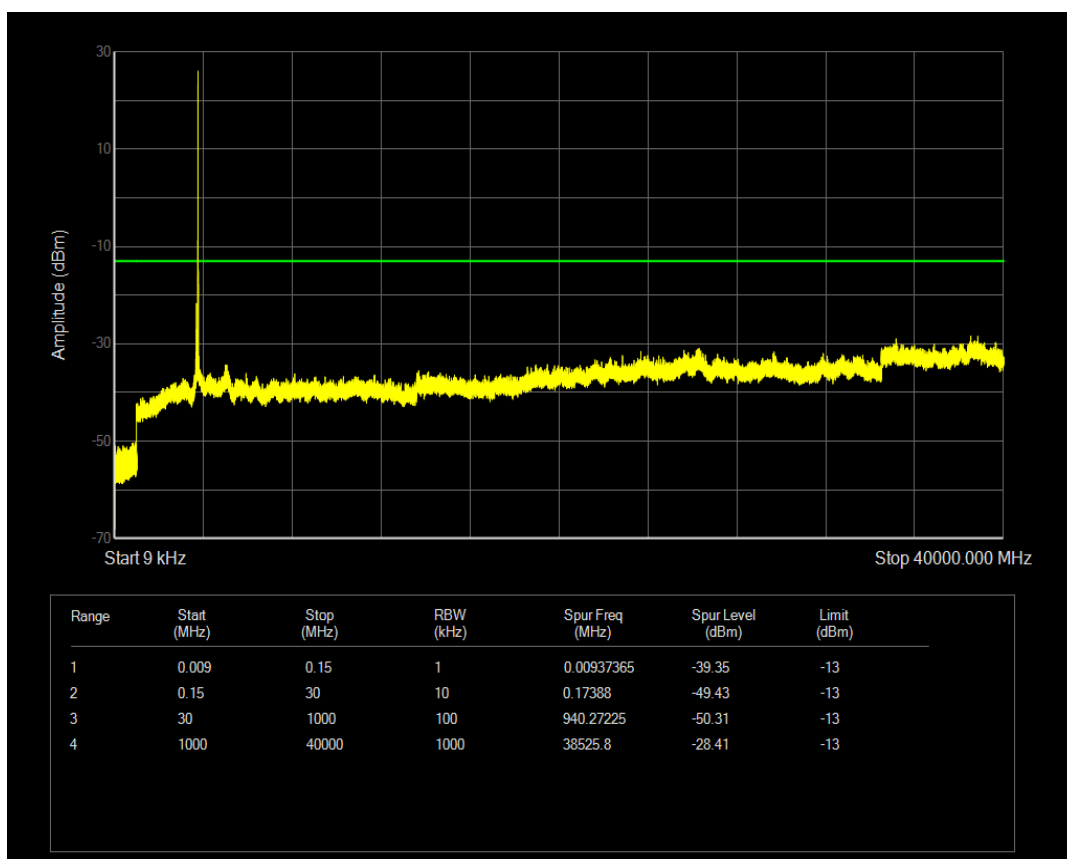
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=649000 RB=180@0



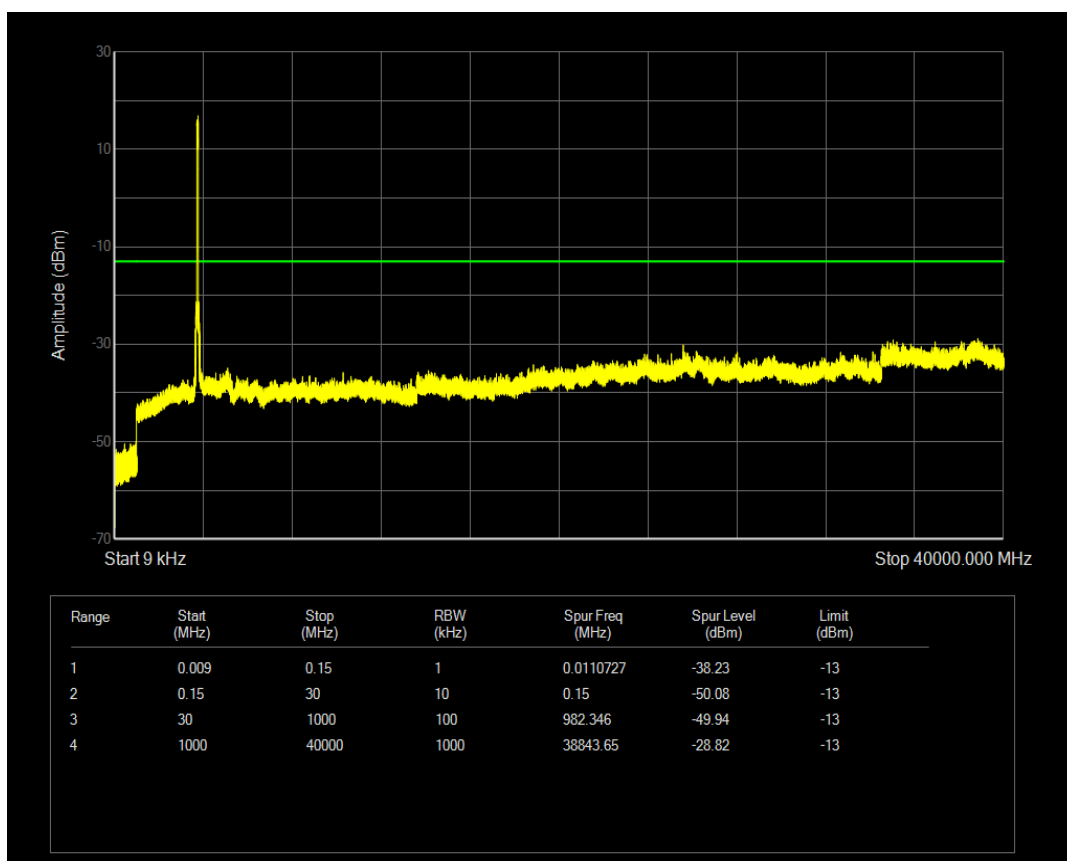
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=649000 RB=1@0



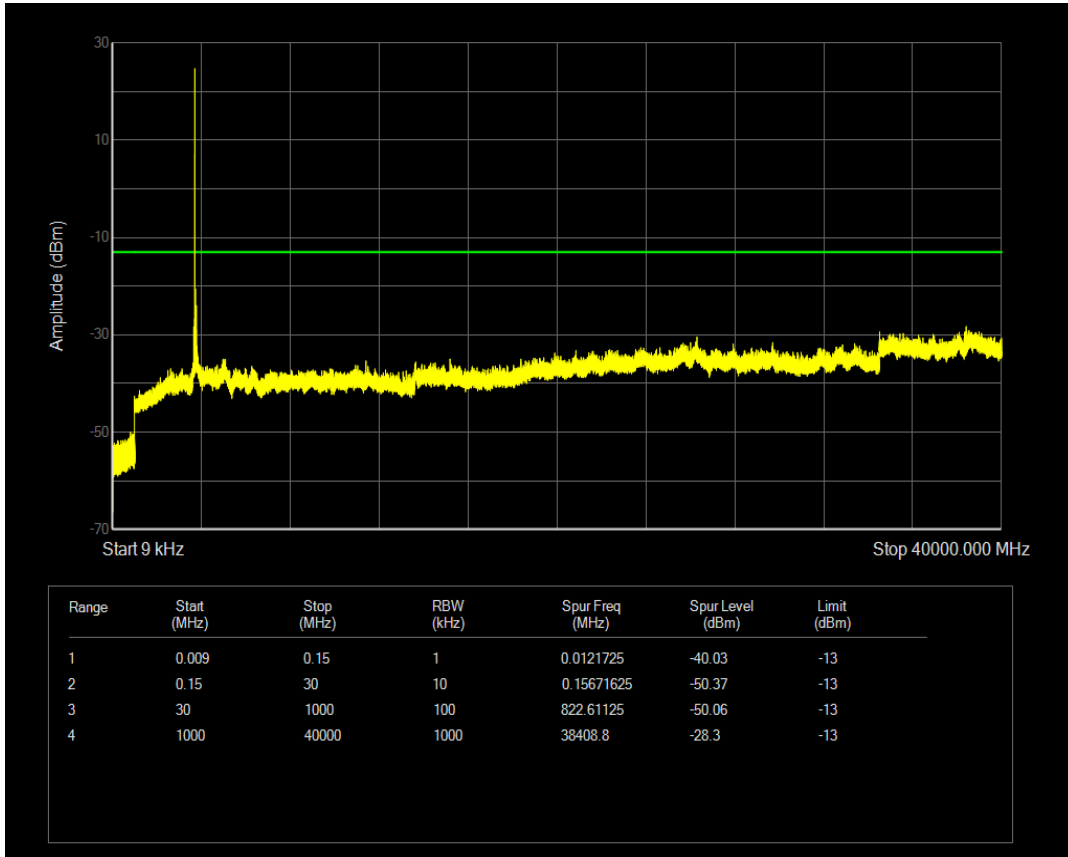
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=649000 RB=1@188



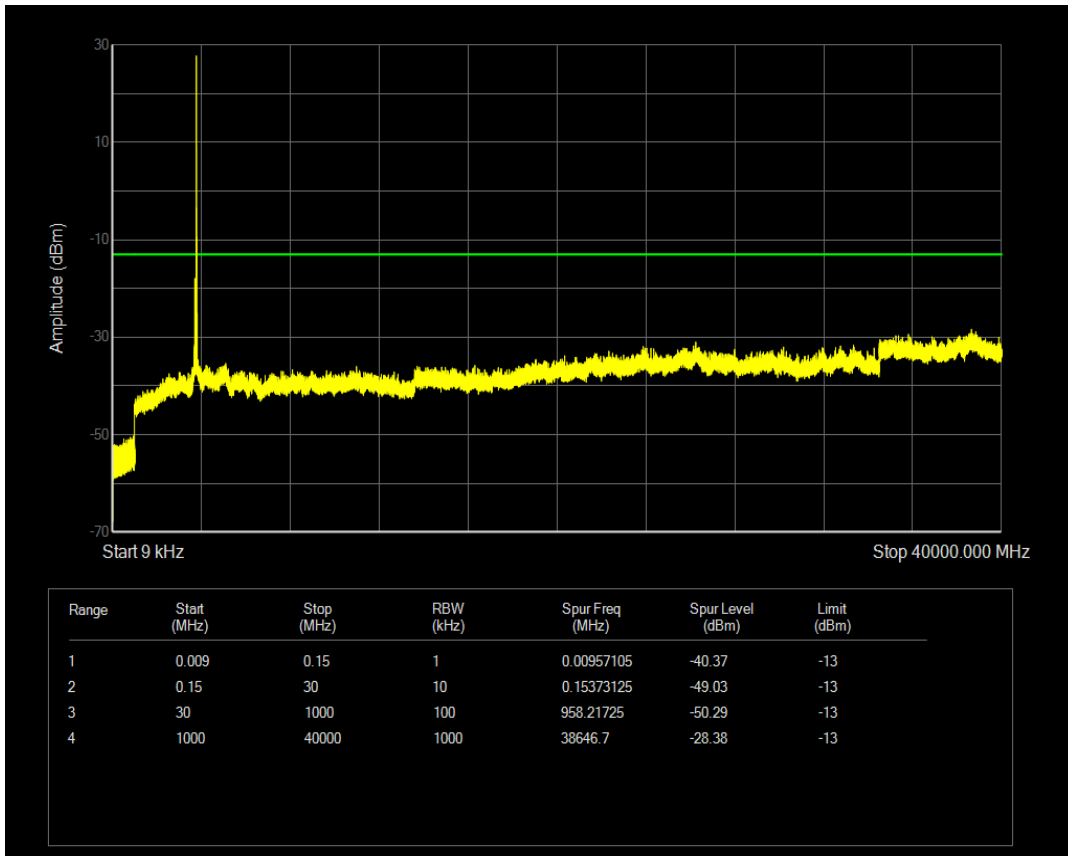
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=650000 RB=180@0



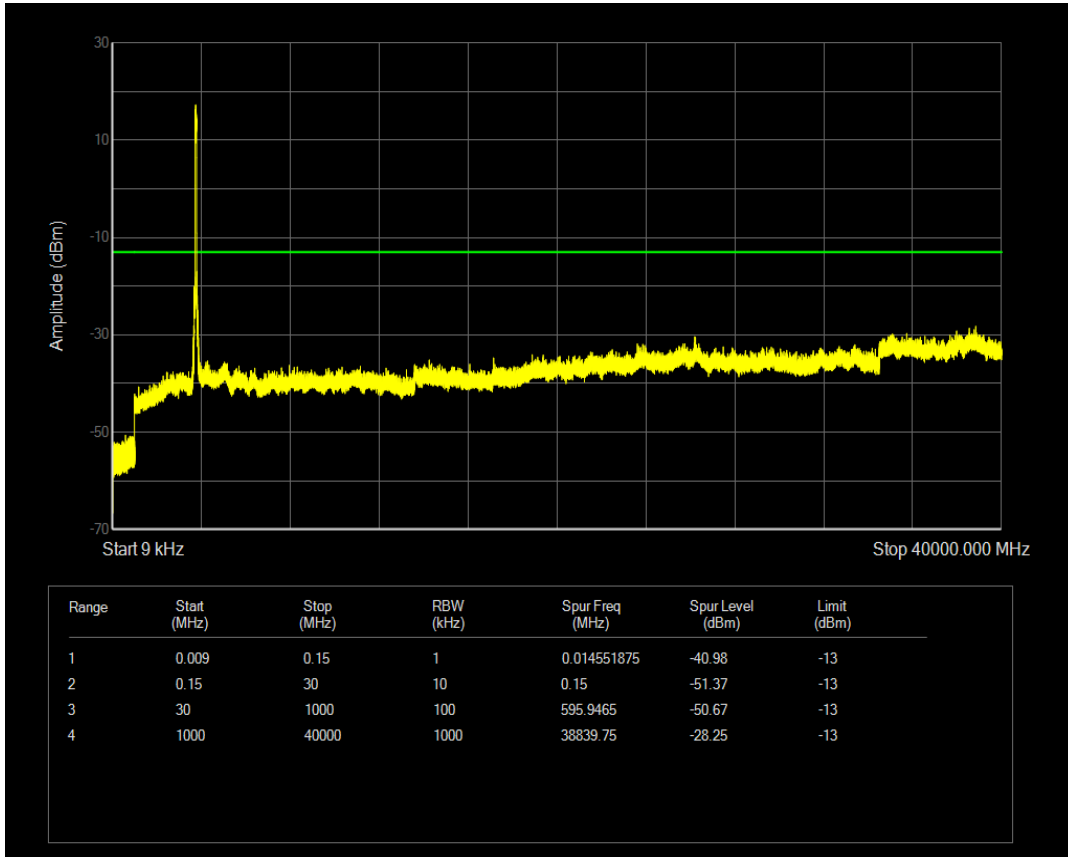
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=650000 RB=1@0



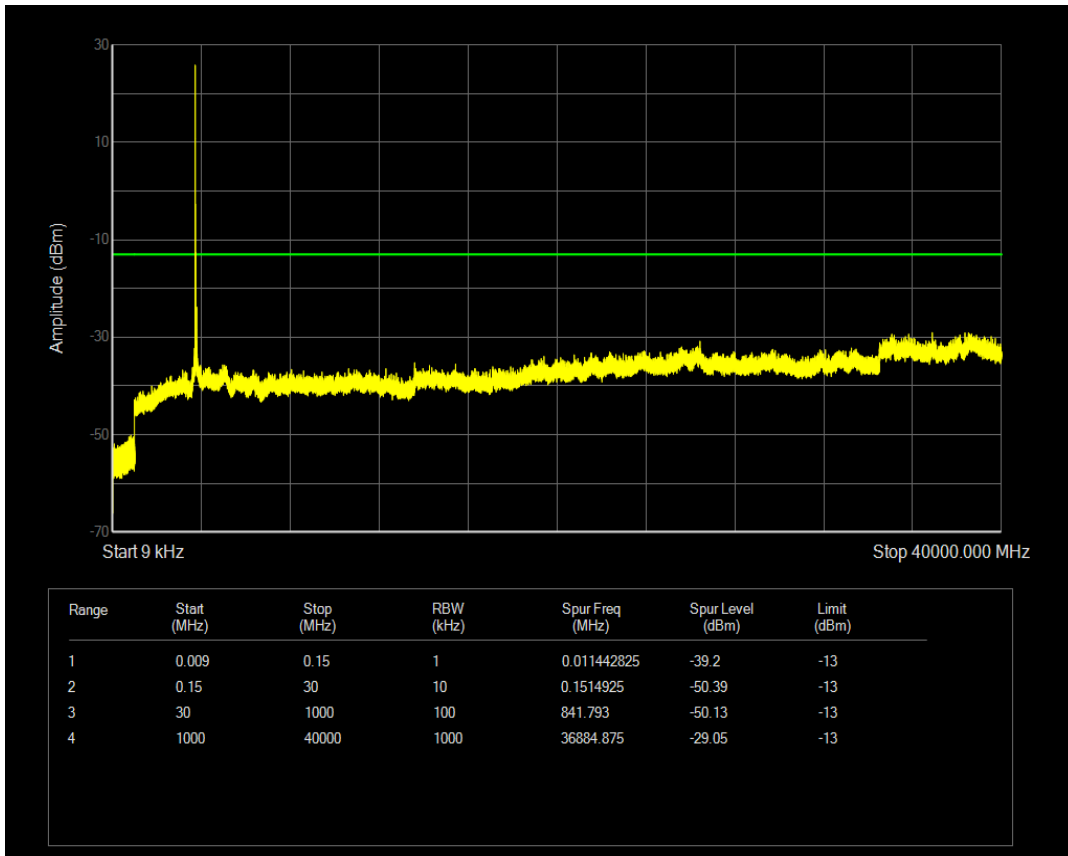
n78(3700-3800) SCS=30kHz DFT_QPSK BW=70MHz Channel=650000 RB=1@188



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

