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1 Transmitter Radiated Power for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Conducted Output AV Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limt (dBm)	Verdict
n7	30	10	501000	1@1	DFT_BPSK	21.24	-1.55	19.69	33.01	Pass
n7	30	10	501000	24@0	DFT_QPSK	20.16	-1.55	18.61	33.01	Pass
n7	30	10	501000	12@6	DFT_QPSK	19.36	-1.55	17.81	33.01	Pass
n7	30	10	501000	1@1	DFT_QPSK	21.32	-1.55	19.77	33.01	Pass
n7	30	10	501000	1@22	DFT_QPSK	21.2	-1.55	19.65	33.01	Pass
n7	30	10	501000	1@1	DFT_QAM16	20.24	-1.55	18.69	33.01	Pass
n7	30	10	501000	1@1	DFT_QAM64	18.75	-1.55	17.20	33.01	Pass
n7	30	10	501000	1@1	DFT_QAM256	14.75	-1.55	13.20	33.01	Pass
n7	30	10	501000	1@1	CP_QPSK	18.97	-1.55	17.42	33.01	Pass
n7	30	10	507000	1@1	DFT_BPSK	21.14	-1.55	19.59	33.01	Pass
n7	30	10	507000	24@0	DFT_QPSK	20.13	-1.55	18.58	33.01	Pass
n7	30	10	507000	12@6	DFT_QPSK	21.2	-1.55	19.65	33.01	Pass
n7	30	10	507000	1@1	DFT_QPSK	21.12	-1.55	19.57	33.01	Pass
n7	30	10	507000	1@22	DFT_QPSK	19.26	-1.55	17.71	33.01	Pass
n7	30	10	507000	1@1	DFT_QAM16	19.9	-1.55	18.35	33.01	Pass
n7	30	10	507000	1@1	DFT_QAM64	18.63	-1.55	17.08	33.01	Pass
n7	30	10	507000	1@1	DFT_QAM256	14.74	-1.55	13.19	33.01	Pass
n7	30	10	507000	1@1	CP_QPSK	19.68	-1.55	18.13	33.01	Pass
n7	30	10	513000	1@1	DFT_BPSK	20.96	-1.55	19.41	33.01	Pass
n7	30	10	513000	24@0	DFT_QPSK	19.96	-1.55	18.41	33.01	Pass
n7	30	10	513000	12@6	DFT_QPSK	21.04	-1.55	19.49	33.01	Pass
n7	30	10	513000	1@1	DFT_QPSK	20.76	-1.55	19.21	33.01	Pass
n7	30	10	513000	1@22	DFT_QPSK	20	-1.55	18.45	33.01	Pass
n7	30	10	513000	1@1	DFT_QAM16	20.03	-1.55	18.48	33.01	Pass
n7	30	10	513000	1@1	DFT_QAM64	18	-1.55	16.45	33.01	Pass
n7	30	10	513000	1@1	DFT_QAM256	15.07	-1.55	13.52	33.01	Pass
n7	30	10	513000	1@1	CP_QPSK	19.14	-1.55	17.59	33.01	Pass
n7	30	15	501500	1@1	DFT_BPSK	21.15	-1.55	19.60	33.01	Pass
n7	30	15	501500	36@0	DFT_QPSK	20.13	-1.55	18.58	33.01	Pass
n7	30	15	501500	18@9	DFT_QPSK	20.29	-1.55	18.74	33.01	Pass
n7	30	15	501500	1@1	DFT_QPSK	21.29	-1.55	19.74	33.01	Pass
n7	30	15	501500	1@36	DFT_QPSK	19.35	-1.55	17.80	33.01	Pass
n7	30	15	501500	1@1	DFT_QAM16	20.24	-1.55	18.69	33.01	Pass
n7	30	15	501500	1@1	DFT_QAM64	17.6	-1.55	16.05	33.01	Pass
n7	30	15	501500	1@1	DFT_QAM256	16.54	-1.55	14.99	33.01	Pass
n7	30	15	501500	1@1	CP_QPSK	19.22	-1.55	17.67	33.01	Pass
n7	30	15	507000	1@1	DFT_BPSK	21.08	-1.55	19.53	33.01	Pass
n7	30	15	507000	36@0	DFT_QPSK	20.03	-1.55	18.48	33.01	Pass

n7	30	15	507000	18@9	DFT_QPSK	20.66	-1.55	19.11	33.01	Pass
n7	30	15	507000	1@1	DFT_QPSK	21.15	-1.55	19.60	33.01	Pass
n7	30	15	507000	1@36	DFT_QPSK	21.12	-1.55	19.57	33.01	Pass
n7	30	15	507000	1@1	DFT_QAM16	20.02	-1.55	18.47	33.01	Pass
n7	30	15	507000	1@1	DFT_QAM64	18.98	-1.55	17.43	33.01	Pass
n7	30	15	507000	1@1	DFT_QAM256	15.12	-1.55	13.57	33.01	Pass
n7	30	15	507000	1@1	CP_QPSK	19.1	-1.55	17.55	33.01	Pass
n7	30	15	512500	1@1	DFT_BPSK	20.91	-1.55	19.36	33.01	Pass
n7	30	15	512500	36@0	DFT_QPSK	19.97	-1.55	18.42	33.01	Pass
n7	30	15	512500	18@9	DFT_QPSK	20.13	-1.55	18.58	33.01	Pass
n7	30	15	512500	1@1	DFT_QPSK	20.97	-1.55	19.42	33.01	Pass
n7	30	15	512500	1@36	DFT_QPSK	19.14	-1.55	17.59	33.01	Pass
n7	30	15	512500	1@1	DFT_QAM16	20.33	-1.55	18.78	33.01	Pass
n7	30	15	512500	1@1	DFT_QAM64	16.88	-1.55	15.33	33.01	Pass
n7	30	15	512500	1@1	DFT_QAM256	16.91	-1.55	15.36	33.01	Pass
n7	30	15	512500	1@1	CP_QPSK	19.31	-1.55	17.76	33.01	Pass
n7	30	20	502000	1@1	DFT_BPSK	19.77	-1.55	18.22	33.01	Pass
n7	30	20	502000	50@0	DFT_QPSK	20.07	-1.55	18.52	33.01	Pass
n7	30	20	502000	25@12	DFT_QPSK	19.27	-1.55	17.72	33.01	Pass
n7	30	20	502000	1@1	DFT_QPSK	21.15	-1.55	19.60	33.01	Pass
n7	30	20	502000	1@49	DFT_QPSK	21.06	-1.55	19.51	33.01	Pass
n7	30	20	502000	1@1	DFT_QAM16	19.3	-1.55	17.75	33.01	Pass
n7	30	20	502000	1@1	DFT_QAM64	17	-1.55	15.45	33.01	Pass
n7	30	20	502000	1@1	DFT_QAM256	16.88	-1.55	15.33	33.01	Pass
n7	30	20	502000	1@1	CP_QPSK	19.59	-1.55	18.04	33.01	Pass
n7	30	20	507000	1@1	DFT_BPSK	19.23	-1.55	17.68	33.01	Pass
n7	30	20	507000	50@0	DFT_QPSK	20.09	-1.55	18.54	33.01	Pass
n7	30	20	507000	25@12	DFT_QPSK	21.11	-1.55	19.56	33.01	Pass
n7	30	20	507000	1@1	DFT_QPSK	19.06	-1.55	17.51	33.01	Pass
n7	30	20	507000	1@49	DFT_QPSK	20.91	-1.55	19.36	33.01	Pass
n7	30	20	507000	1@1	DFT_QAM16	19.88	-1.55	18.33	33.01	Pass
n7	30	20	507000	1@1	DFT_QAM64	18.8	-1.55	17.25	33.01	Pass
n7	30	20	507000	1@1	DFT_QAM256	16.55	-1.55	15.00	33.01	Pass
n7	30	20	507000	1@1	CP_QPSK	19.64	-1.55	18.09	33.01	Pass
n7	30	20	512000	1@1	DFT_BPSK	20.91	-1.55	19.36	33.01	Pass
n7	30	20	512000	50@0	DFT_QPSK	19.96	-1.55	18.41	33.01	Pass
n7	30	20	512000	25@12	DFT_QPSK	20.69	-1.55	19.14	33.01	Pass
n7	30	20	512000	1@1	DFT_QPSK	20.81	-1.55	19.26	33.01	Pass
n7	30	20	512000	1@49	DFT_QPSK	20.89	-1.55	19.34	33.01	Pass
n7	30	20	512000	1@1	DFT_QAM16	19.83	-1.55	18.28	33.01	Pass
n7	30	20	512000	1@1	DFT_QAM64	18.54	-1.55	16.99	33.01	Pass
n7	30	20	512000	1@1	DFT_QAM256	16.25	-1.55	14.70	33.01	Pass
n7	30	20	512000	1@1	CP_QPSK	19.09	-1.55	17.54	33.01	Pass

2 Frequency stability for NR FR1(Voltage:3.45V, Temperature:-10° C Worst data)

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Result(Hz)	Result (ppm)	Low Limit (ppm)	high Limit (ppm)	Verdict
n7	30	10	501000	12@6	DFT_BPSK	0.01	0.00000	-2.5	2.5	PASS
n7	30	10	501000	1@1	DFT_BPSK	-1.52	-0.00061	-2.5	2.5	PASS
n7	30	10	501000	1@22	DFT_BPSK	-1.97	-0.00079	-2.5	2.5	PASS
n7	30	10	501000	12@6	DFT_QPSK	-1.44	-0.00057	-2.5	2.5	PASS
n7	30	10	501000	1@1	DFT_QPSK	-1.55	-0.00062	-2.5	2.5	PASS
n7	30	10	501000	1@22	DFT_QPSK	-3.49	-0.00139	-2.5	2.5	PASS
n7	30	10	507000	12@6	DFT_BPSK	-1.45	-0.00057	-2.5	2.5	PASS
n7	30	10	507000	1@1	DFT_BPSK	-2.44	-0.00096	-2.5	2.5	PASS
n7	30	10	507000	1@22	DFT_BPSK	-1.11	-0.00044	-2.5	2.5	PASS
n7	30	10	507000	12@6	DFT_QPSK	0.72	0.00028	-2.5	2.5	PASS
n7	30	10	507000	1@1	DFT_QPSK	0.78	0.00031	-2.5	2.5	PASS
n7	30	10	507000	1@22	DFT_QPSK	1.66	0.00065	-2.5	2.5	PASS
n7	30	10	513000	12@6	DFT_BPSK	-2.26	-0.00088	-2.5	2.5	PASS
n7	30	10	513000	1@1	DFT_BPSK	-2.39	-0.00093	-2.5	2.5	PASS
n7	30	10	513000	1@22	DFT_BPSK	-3.33	-0.00130	-2.5	2.5	PASS
n7	30	10	513000	12@6	DFT_QPSK	-2.14	-0.00083	-2.5	2.5	PASS
n7	30	10	513000	1@1	DFT_QPSK	0.08	0.00003	-2.5	2.5	PASS
n7	30	10	513000	1@22	DFT_QPSK	0.56	0.00022	-2.5	2.5	PASS
n7	30	15	501500	18@9	DFT_BPSK	-0.48	-0.00019	-2.5	2.5	PASS
n7	30	15	501500	1@1	DFT_BPSK	-0.21	-0.00008	-2.5	2.5	PASS
n7	30	15	501500	1@36	DFT_BPSK	-1.30	-0.00052	-2.5	2.5	PASS
n7	30	15	501500	18@9	DFT_QPSK	1.79	0.00071	-2.5	2.5	PASS
n7	30	15	501500	1@1	DFT_QPSK	3.18	0.00127	-2.5	2.5	PASS
n7	30	15	501500	1@36	DFT_QPSK	0.77	0.00031	-2.5	2.5	PASS
n7	30	15	507000	18@9	DFT_BPSK	-3.05	-0.00120	-2.5	2.5	PASS
n7	30	15	507000	1@1	DFT_BPSK	-4.52	-0.00178	-2.5	2.5	PASS
n7	30	15	507000	1@36	DFT_BPSK	-4.03	-0.00159	-2.5	2.5	PASS
n7	30	15	507000	18@9	DFT_QPSK	-2.95	-0.00116	-2.5	2.5	PASS
n7	30	15	507000	1@1	DFT_QPSK	-5.76	-0.00227	-2.5	2.5	PASS
n7	30	15	507000	1@36	DFT_QPSK	-3.70	-0.00146	-2.5	2.5	PASS
n7	30	15	512500	18@9	DFT_BPSK	1.15	0.00045	-2.5	2.5	PASS
n7	30	15	512500	1@1	DFT_BPSK	0.56	0.00022	-2.5	2.5	PASS
n7	30	15	512500	1@36	DFT_BPSK	0.78	0.00030	-2.5	2.5	PASS
n7	30	15	512500	18@9	DFT_QPSK	-3.38	-0.00132	-2.5	2.5	PASS
n7	30	15	512500	1@1	DFT_QPSK	-2.74	-0.00107	-2.5	2.5	PASS
n7	30	15	512500	1@36	DFT_QPSK	-5.40	-0.00211	-2.5	2.5	PASS
n7	30	20	502000	25@12	DFT_BPSK	0.92	0.00037	-2.5	2.5	PASS
n7	30	20	502000	1@1	DFT_BPSK	0.63	0.00025	-2.5	2.5	PASS
n7	30	20	502000	1@49	DFT_BPSK	0.78	0.00031	-2.5	2.5	PASS
n7	30	20	502000	25@12	DFT_QPSK	-0.46	-0.00018	-2.5	2.5	PASS
n7	30	20	502000	1@1	DFT_QPSK	1.67	0.00067	-2.5	2.5	PASS

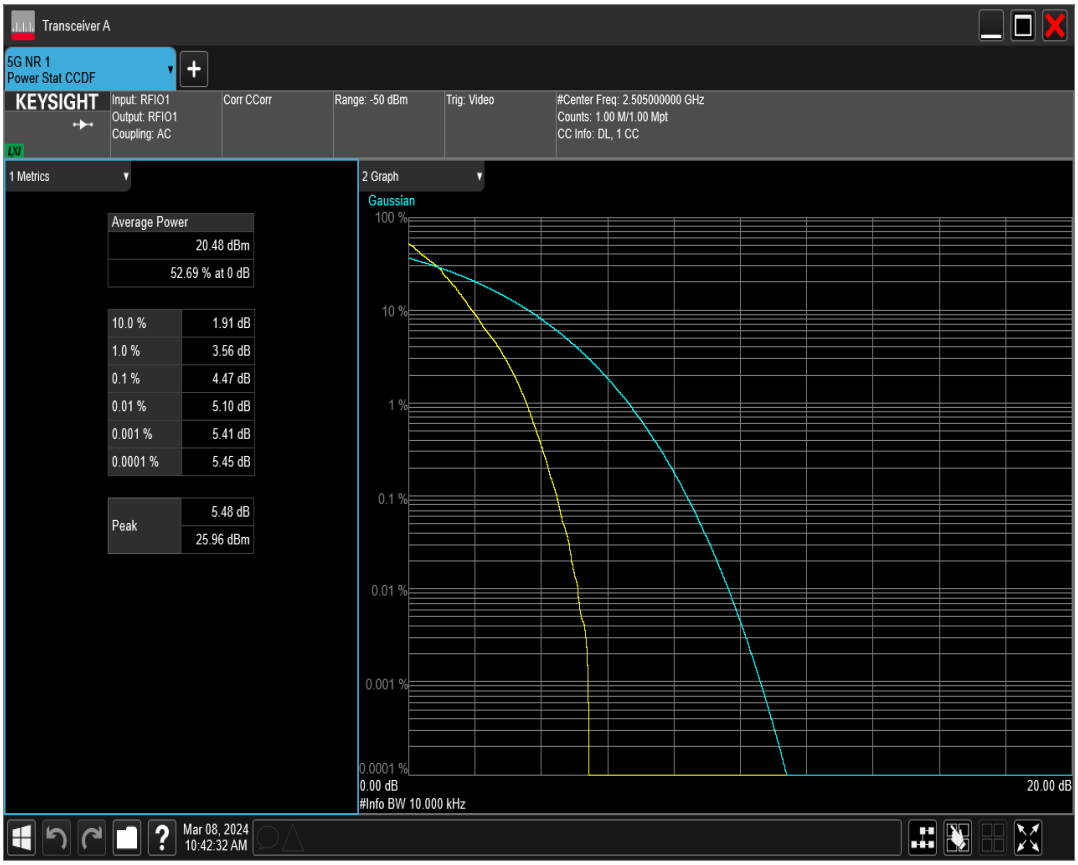
n7	30	20	502000	1@49	DFT_QPSK	0.45	0.00018	-2.5	2.5	PASS
n7	30	20	507000	25@12	DFT_BPSK	-5.11	-0.00202	-2.5	2.5	PASS
n7	30	20	507000	1@1	DFT_BPSK	-7.41	-0.00292	-2.5	2.5	PASS
n7	30	20	507000	1@49	DFT_BPSK	-7.53	-0.00297	-2.5	2.5	PASS
n7	30	20	507000	25@12	DFT_QPSK	-1.84	-0.00073	-2.5	2.5	PASS
n7	30	20	507000	1@1	DFT_QPSK	-1.50	-0.00059	-2.5	2.5	PASS
n7	30	20	507000	1@49	DFT_QPSK	-1.25	-0.00049	-2.5	2.5	PASS
n7	30	20	512000	25@12	DFT_BPSK	-2.68	-0.00105	-2.5	2.5	PASS
n7	30	20	512000	1@1	DFT_BPSK	-2.53	-0.00099	-2.5	2.5	PASS
n7	30	20	512000	1@49	DFT_BPSK	-1.20	-0.00047	-2.5	2.5	PASS
n7	30	20	512000	25@12	DFT_QPSK	0.46	0.00018	-2.5	2.5	PASS
n7	30	20	512000	1@1	DFT_QPSK	0.38	0.00015	-2.5	2.5	PASS
n7	30	20	512000	1@49	DFT_QPSK	-5.67	-0.00221	-2.5	2.5	PASS

3 Peak-to-Average Ratio for NR FR1

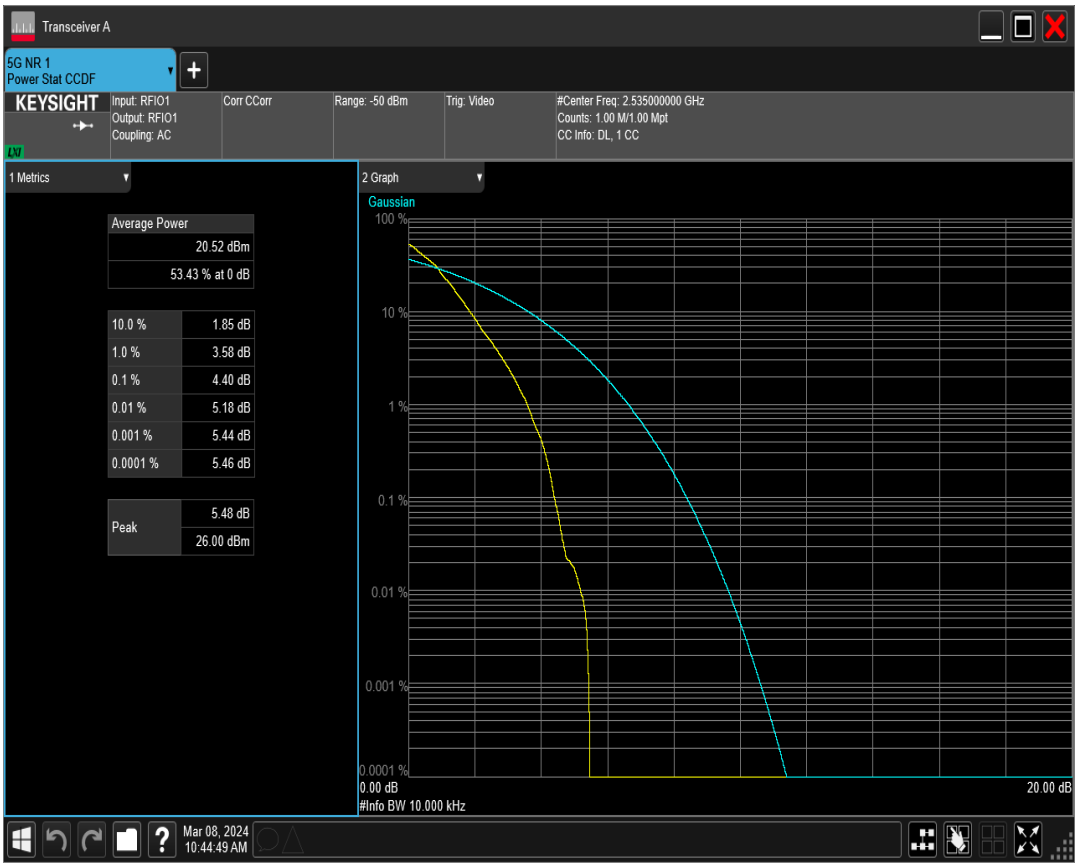
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Result (dB)	high Limit (dB)	Verdict
n7	30	10	501000	24@0	DFT_BPSK	4.47	13	PASS
n7	30	10	501000	24@0	DFT_QPSK	5.53	13	PASS
n7	30	10	501000	24@0	DFT_QAM16	6.23	13	PASS
n7	30	10	501000	24@0	DFT_QAM64	6.40	13	PASS
n7	30	10	501000	24@0	DFT_QAM256	6.86	13	PASS
n7	30	10	507000	24@0	DFT_BPSK	4.40	13	PASS
n7	30	10	507000	24@0	DFT_QPSK	5.34	13	PASS
n7	30	10	507000	24@0	DFT_QAM16	6.08	13	PASS
n7	30	10	507000	24@0	DFT_QAM64	6.42	13	PASS
n7	30	10	507000	24@0	DFT_QAM256	6.50	13	PASS
n7	30	10	513000	24@0	DFT_BPSK	4.81	13	PASS
n7	30	10	513000	24@0	DFT_QPSK	5.19	13	PASS
n7	30	10	513000	24@0	DFT_QAM16	5.97	13	PASS
n7	30	10	513000	24@0	DFT_QAM64	6.29	13	PASS
n7	30	10	513000	24@0	DFT_QAM256	6.66	13	PASS
n7	30	15	501500	36@0	DFT_BPSK	4.41	13	PASS
n7	30	15	501500	36@0	DFT_QPSK	5.42	13	PASS
n7	30	15	501500	36@0	DFT_QAM16	6.17	13	PASS
n7	30	15	501500	36@0	DFT_QAM64	6.48	13	PASS
n7	30	15	501500	36@0	DFT_QAM256	6.70	13	PASS
n7	30	15	507000	36@0	DFT_BPSK	4.37	13	PASS
n7	30	15	507000	36@0	DFT_QPSK	5.43	13	PASS
n7	30	15	507000	36@0	DFT_QAM16	6.13	13	PASS
n7	30	15	507000	36@0	DFT_QAM64	6.42	13	PASS
n7	30	15	507000	36@0	DFT_QAM256	6.73	13	PASS
n7	30	15	512500	36@0	DFT_BPSK	4.29	13	PASS
n7	30	15	512500	36@0	DFT_QPSK	5.20	13	PASS
n7	30	15	512500	36@0	DFT_QAM16	5.97	13	PASS

n7	30	15	512500	36@0	DFT_QAM64	6.18	13	PASS
n7	30	15	512500	36@0	DFT_QAM256	6.46	13	PASS
n7	30	20	502000	50@0	DFT_BPSK	4.21	13	PASS
n7	30	20	502000	50@0	DFT_QPSK	5.48	13	PASS
n7	30	20	502000	50@0	DFT_QAM16	6.09	13	PASS
n7	30	20	502000	50@0	DFT_QAM64	6.52	13	PASS
n7	30	20	502000	50@0	DFT_QAM256	6.41	13	PASS
n7	30	20	507000	50@0	DFT_BPSK	4.45	13	PASS
n7	30	20	507000	50@0	DFT_QPSK	5.47	13	PASS
n7	30	20	507000	50@0	DFT_QAM16	6.19	13	PASS
n7	30	20	507000	50@0	DFT_QAM64	6.47	13	PASS
n7	30	20	507000	50@0	DFT_QAM256	6.78	13	PASS
n7	30	20	512000	50@0	DFT_BPSK	4.93	13	PASS
n7	30	20	512000	50@0	DFT_QPSK	5.41	13	PASS
n7	30	20	512000	50@0	DFT_QAM16	5.96	13	PASS
n7	30	20	512000	50@0	DFT_QAM64	6.32	13	PASS
n7	30	20	512000	50@0	DFT_QAM256	6.58	13	PASS

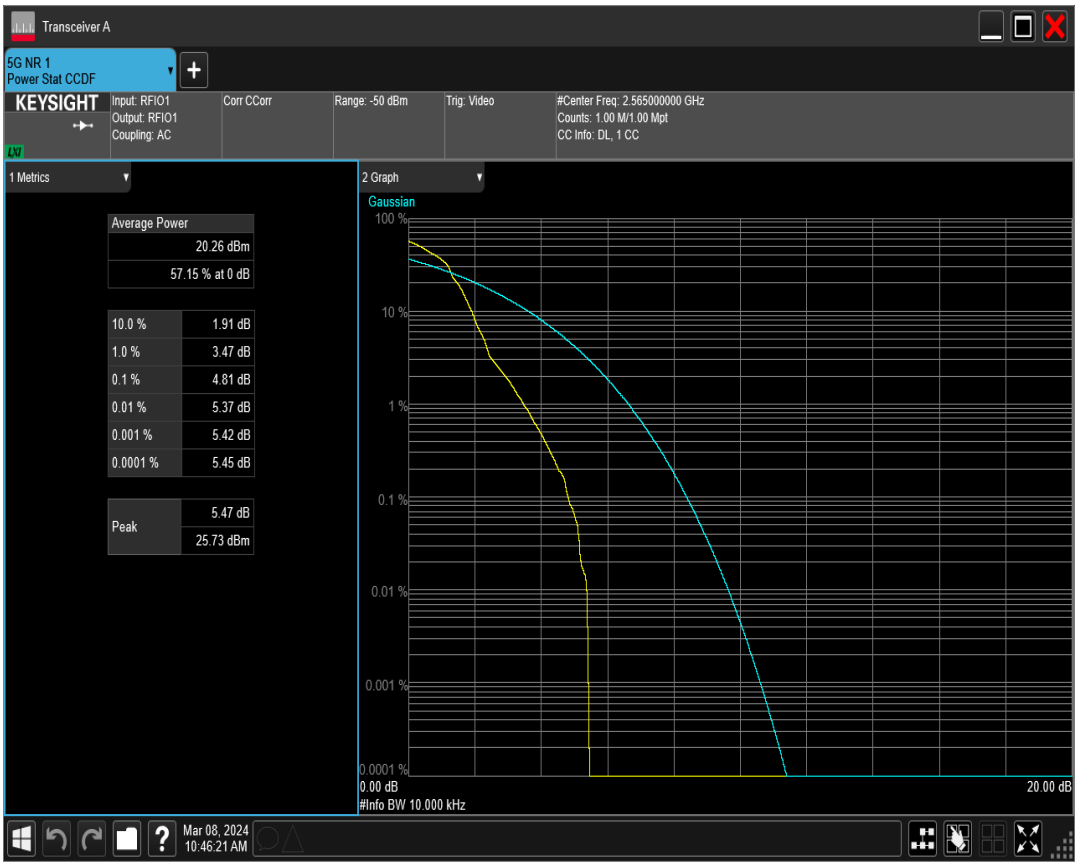
n7 SCS=30kHz DFT_BPSK BW=10MHz Channel=501000 RB=24@0



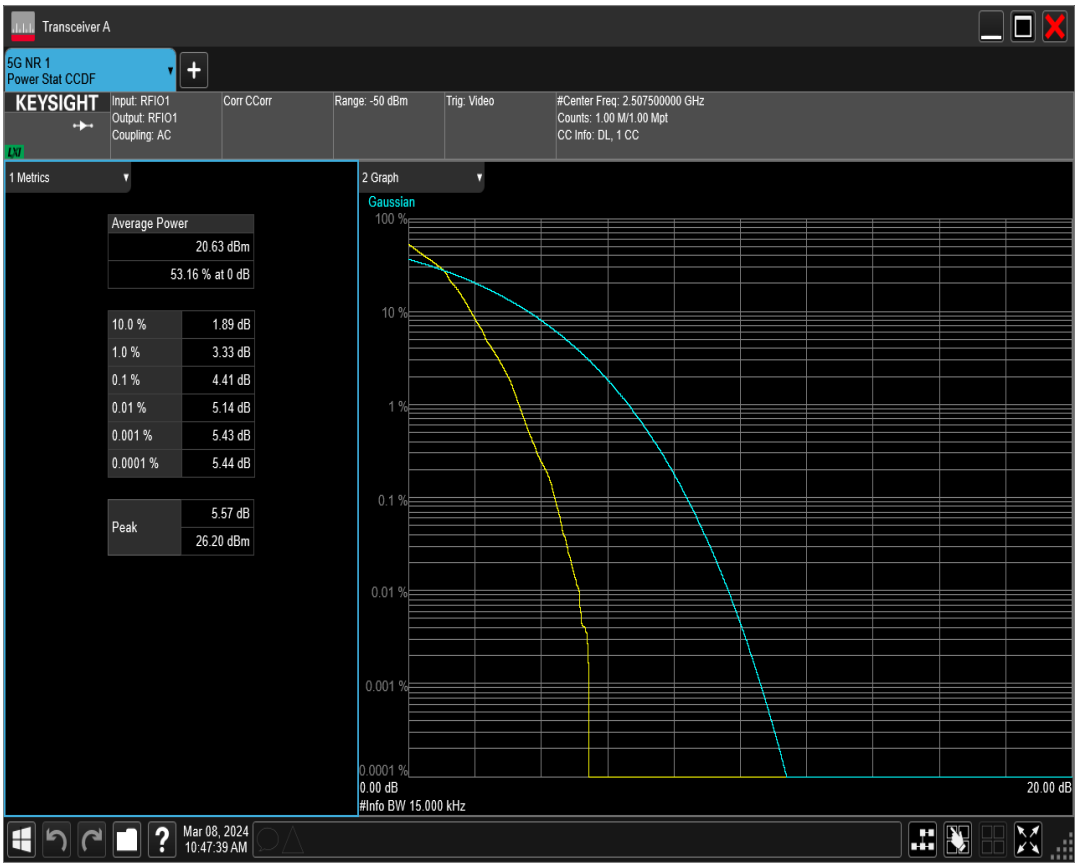
n7 SCS=30kHz DFT_BPSK BW=10MHz Channel=507000 RB=24@0



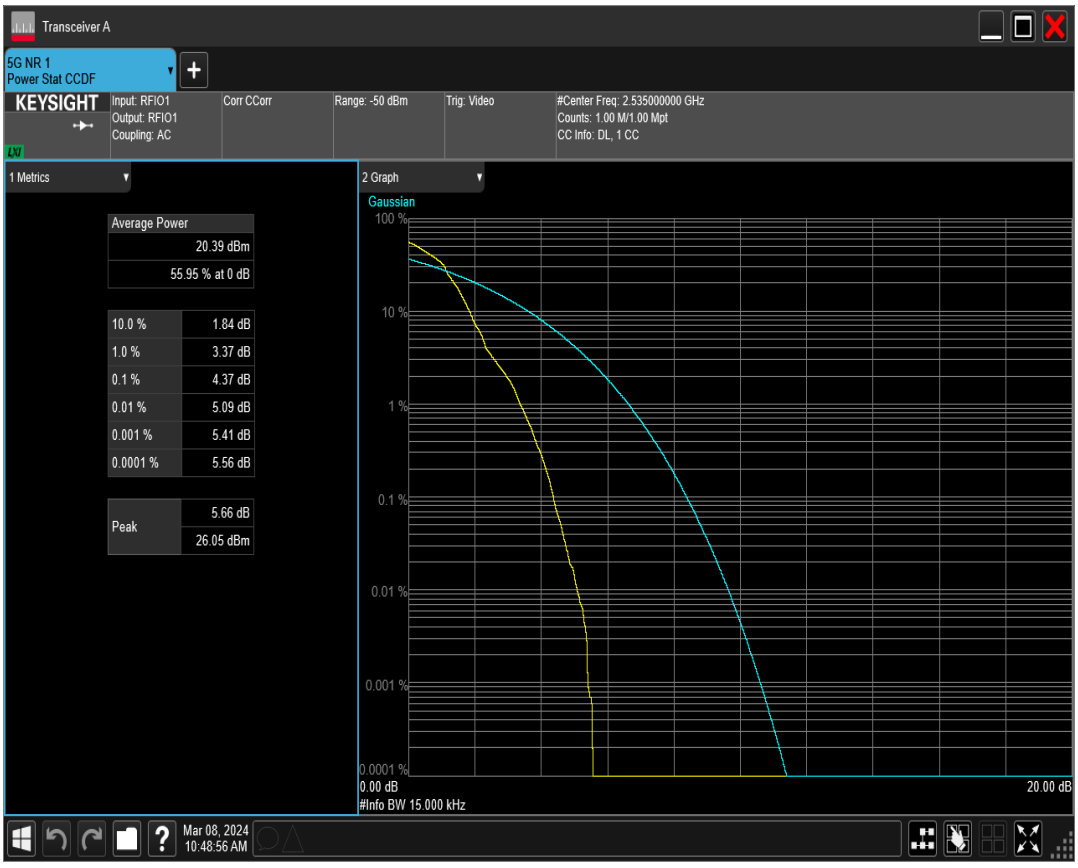
n7 SCS=30kHz DFT_BPSK BW=10MHz Channel=513000 RB=24@0



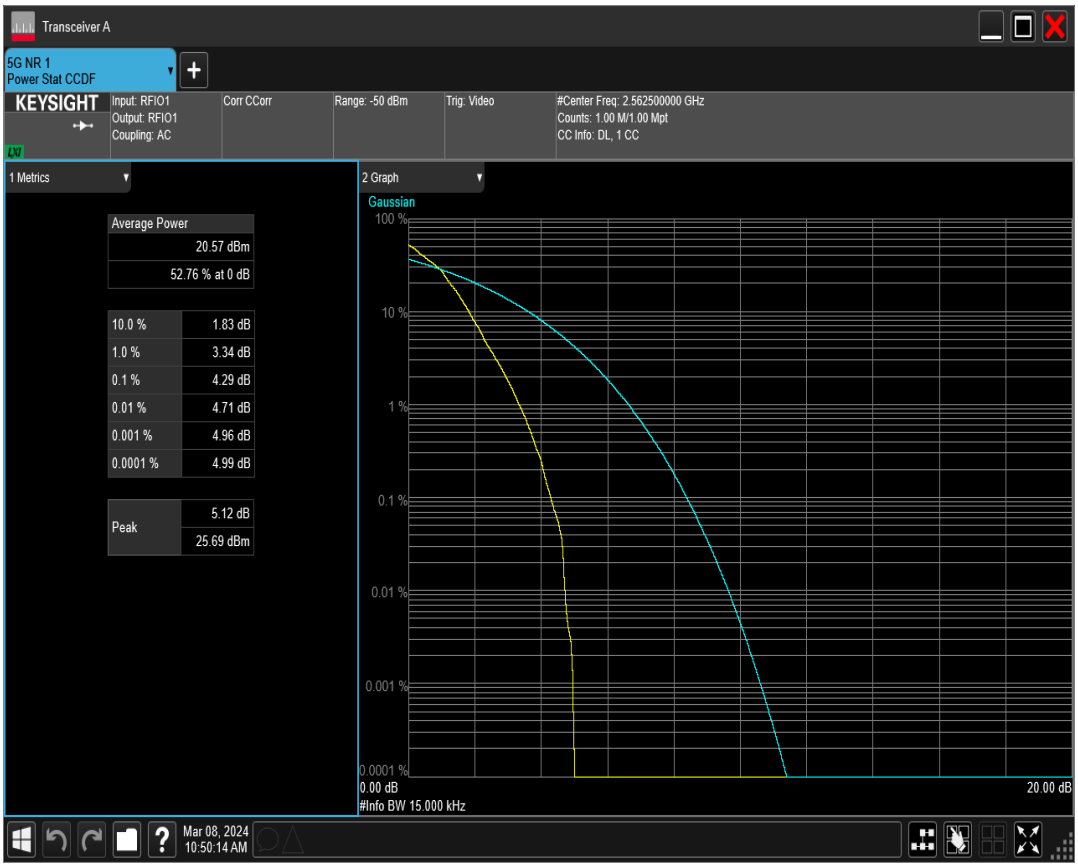
n7 SCS=30kHz DFT_BPSK BW=15MHz Channel=501500 RB=36@0



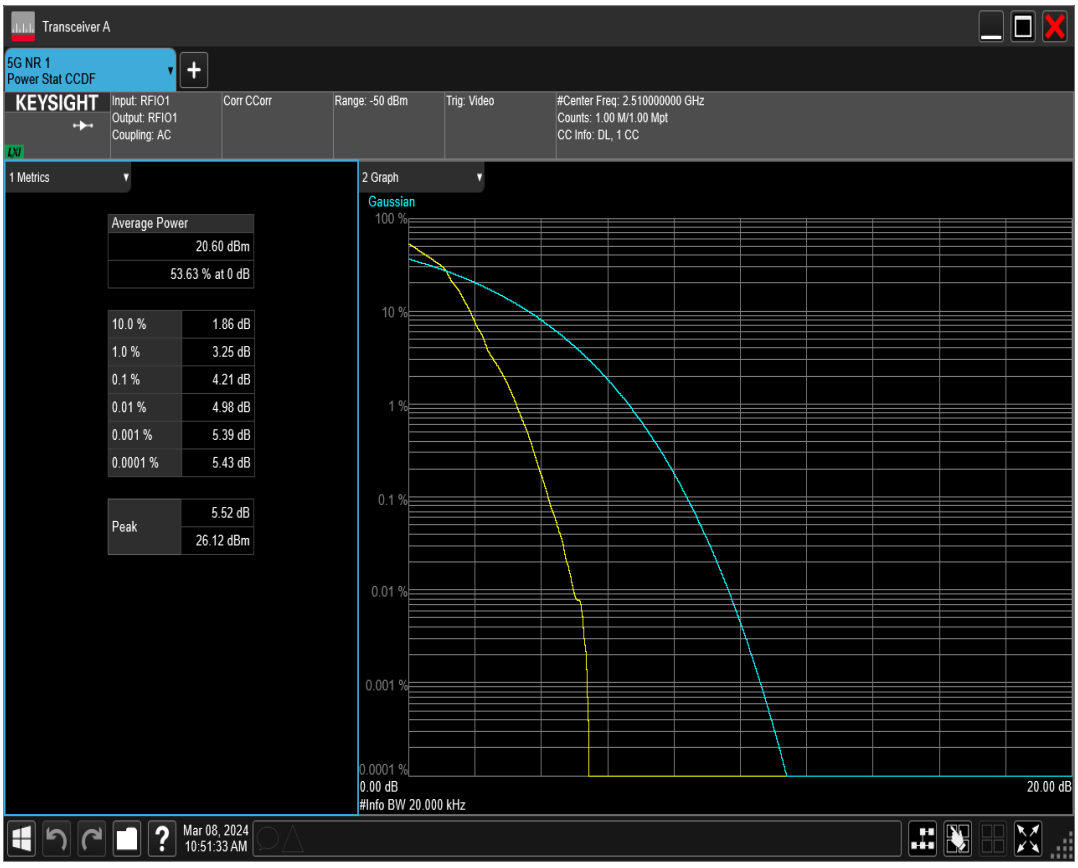
n7 SCS=30kHz DFT_BPSK BW=15MHz Channel=507000 RB=36@0



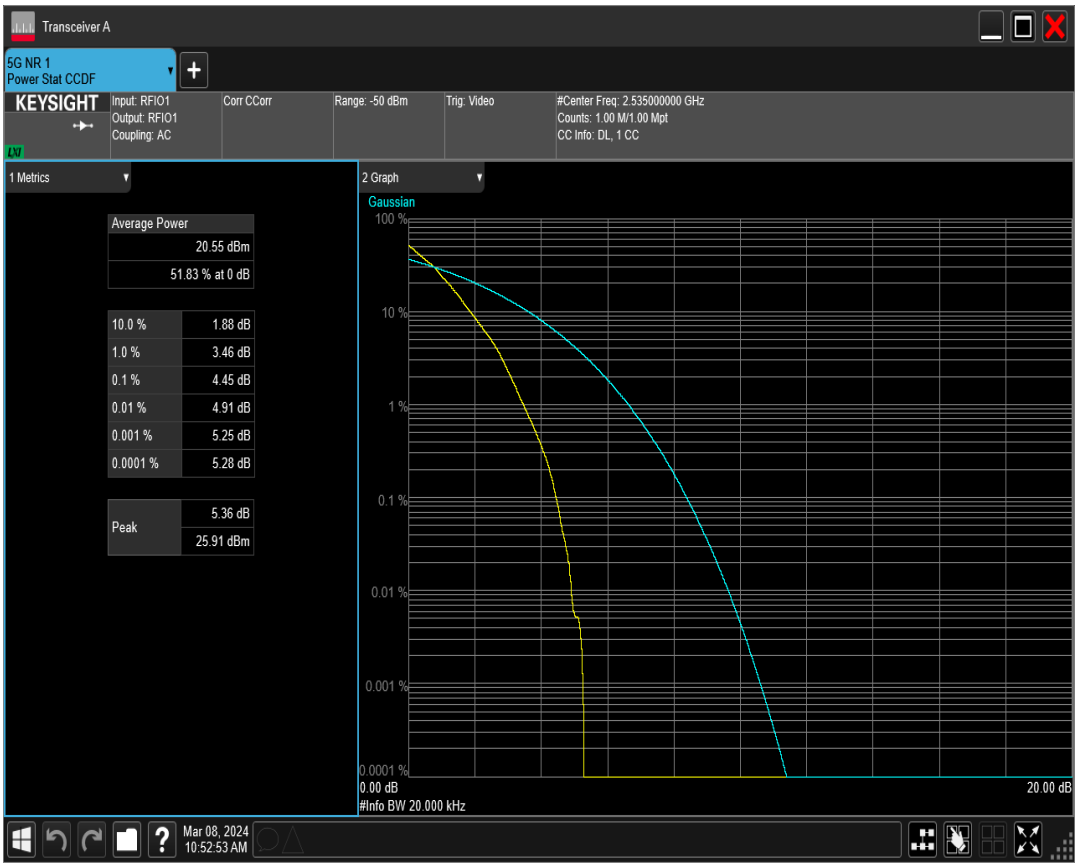
n7 SCS=30kHz DFT_BPSK BW=15MHz Channel=512500 RB=36@0



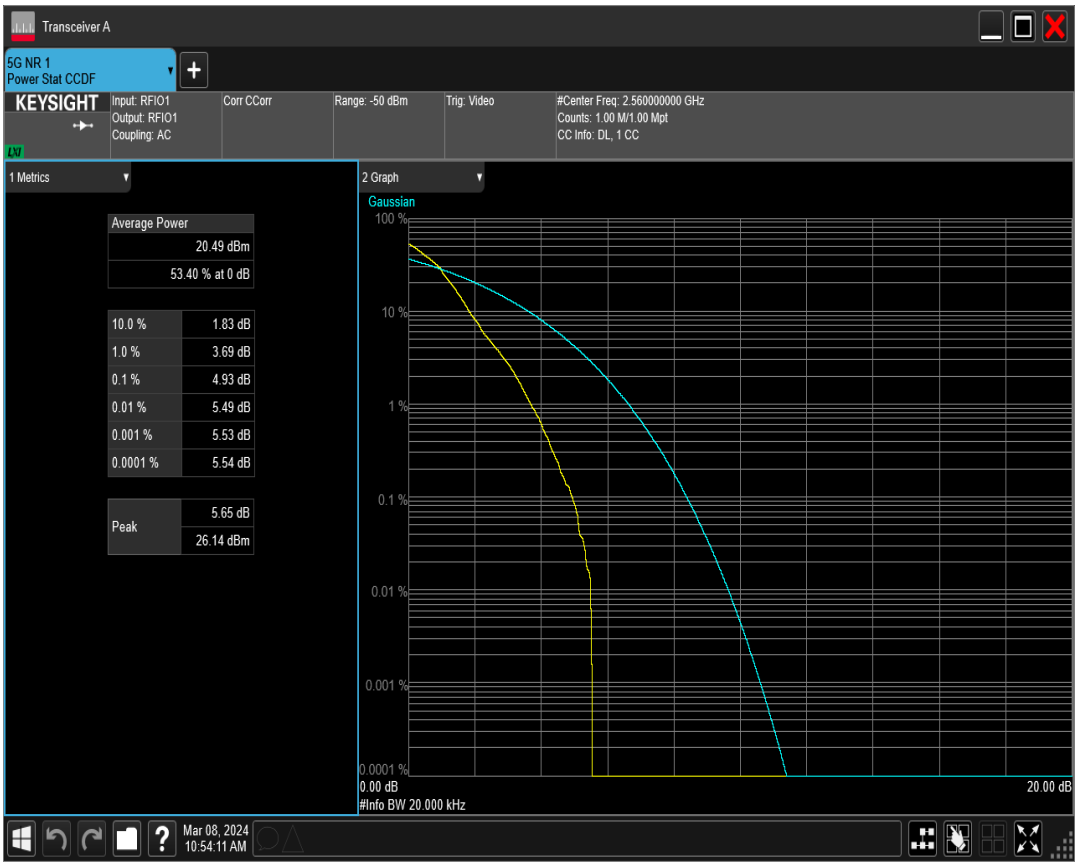
n7 SCS=30kHz DFT_BPSK BW=20MHz Channel=502000 RB=50@0



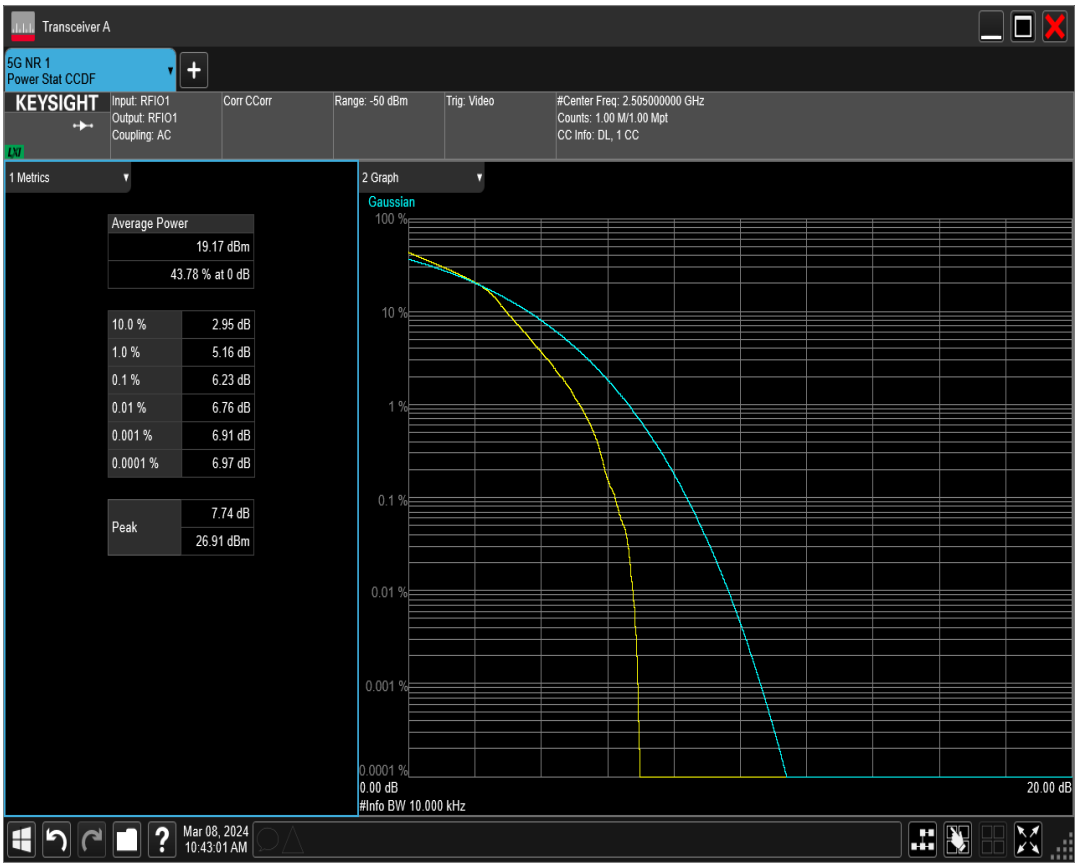
n7 SCS=30kHz DFT_BPSK BW=20MHz Channel=507000 RB=50@0



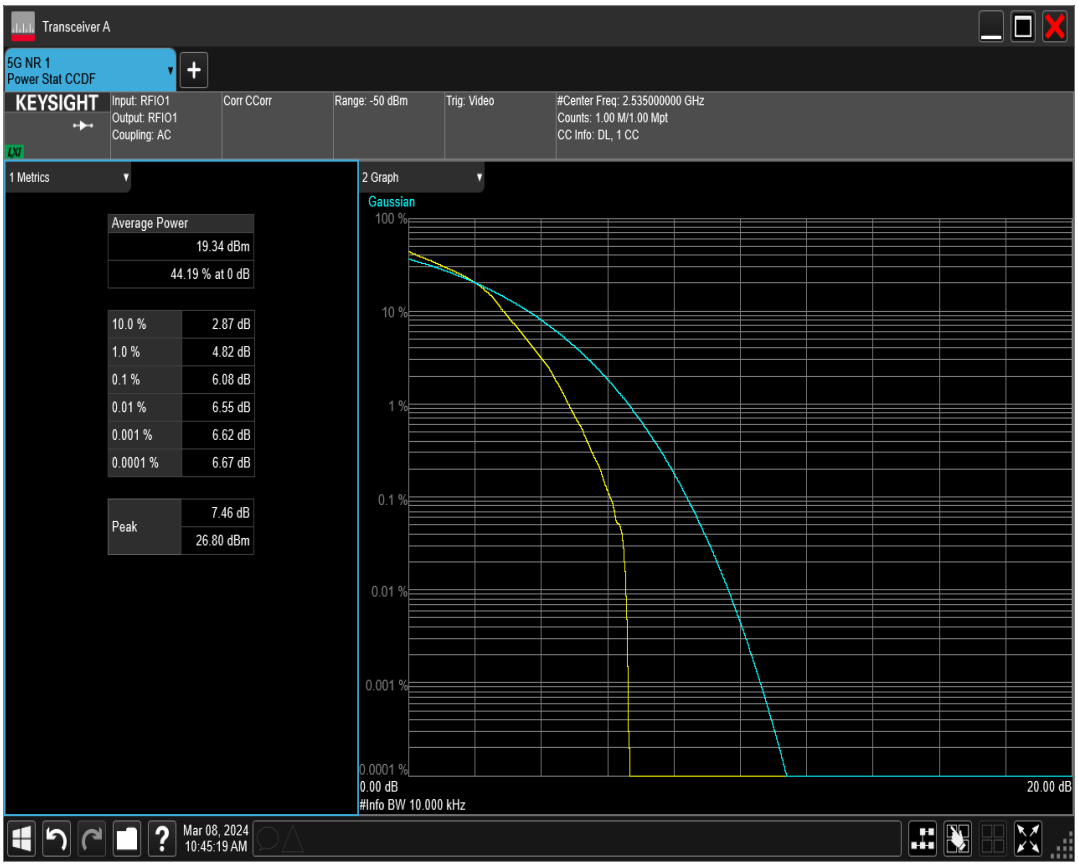
n7 SCS=30kHz DFT_BPSK BW=20MHz Channel=512000 RB=50@0



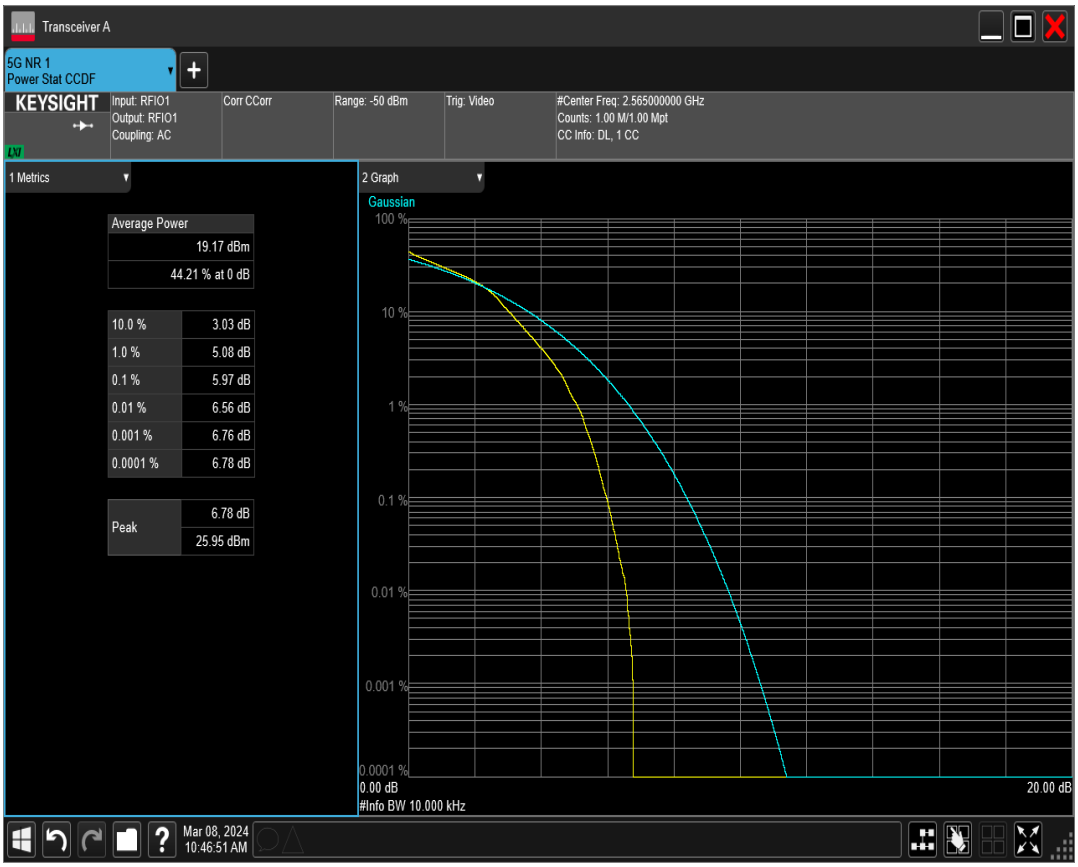
n7 SCS=30kHz DFT_QAM16 BW=10MHz Channel=501000 RB=24@0



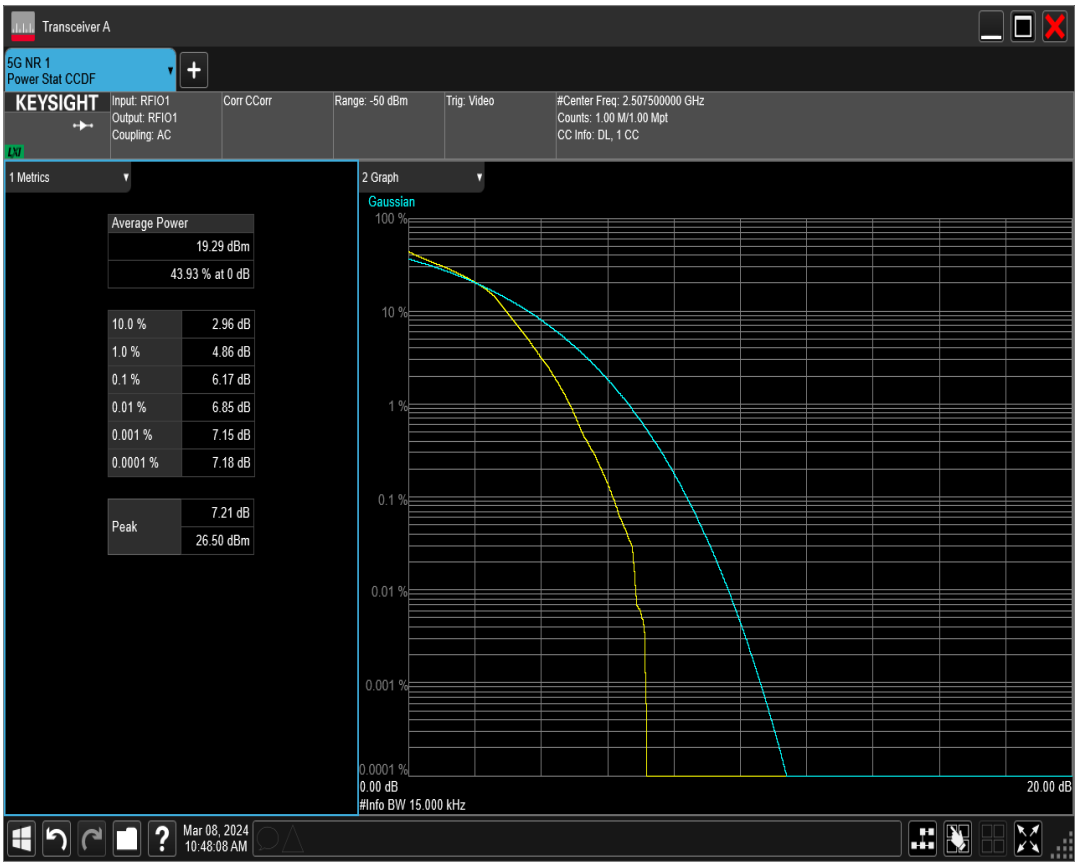
n7 SCS=30kHz DFT_QAM16 BW=10MHz Channel=507000 RB=24@0



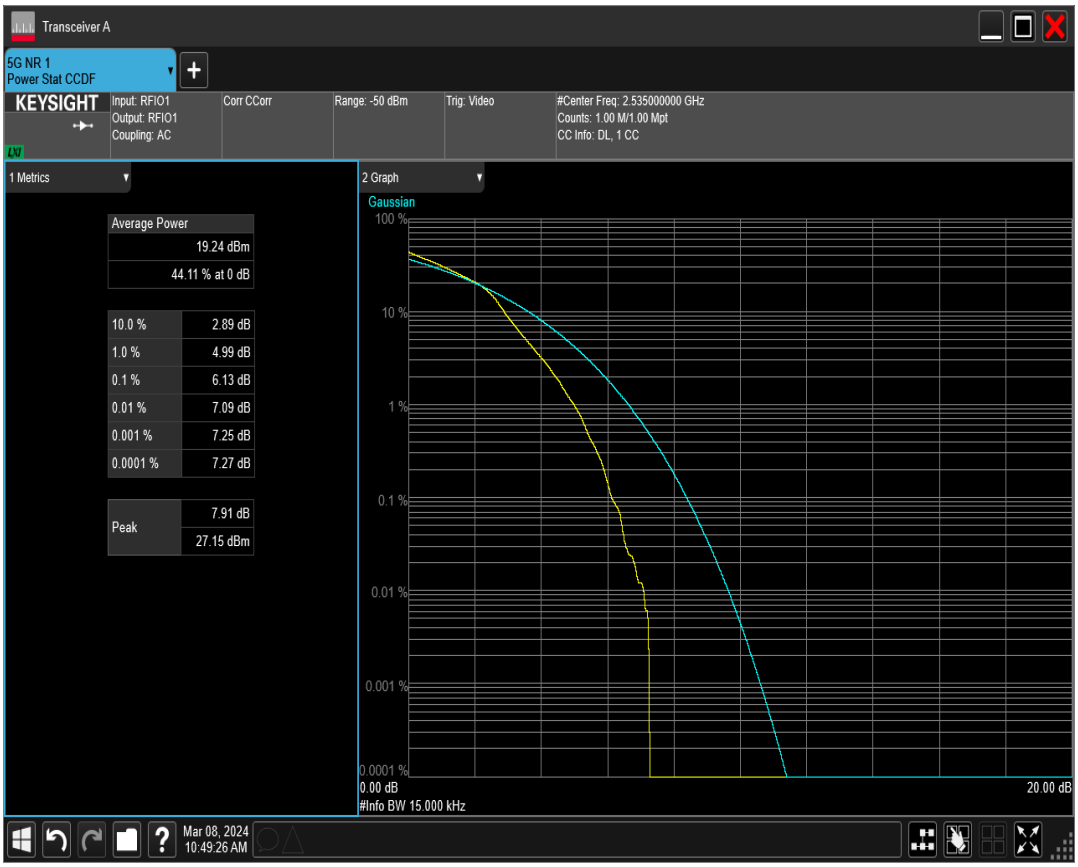
n7 SCS=30kHz DFT_QAM16 BW=10MHz Channel=513000 RB=24@0



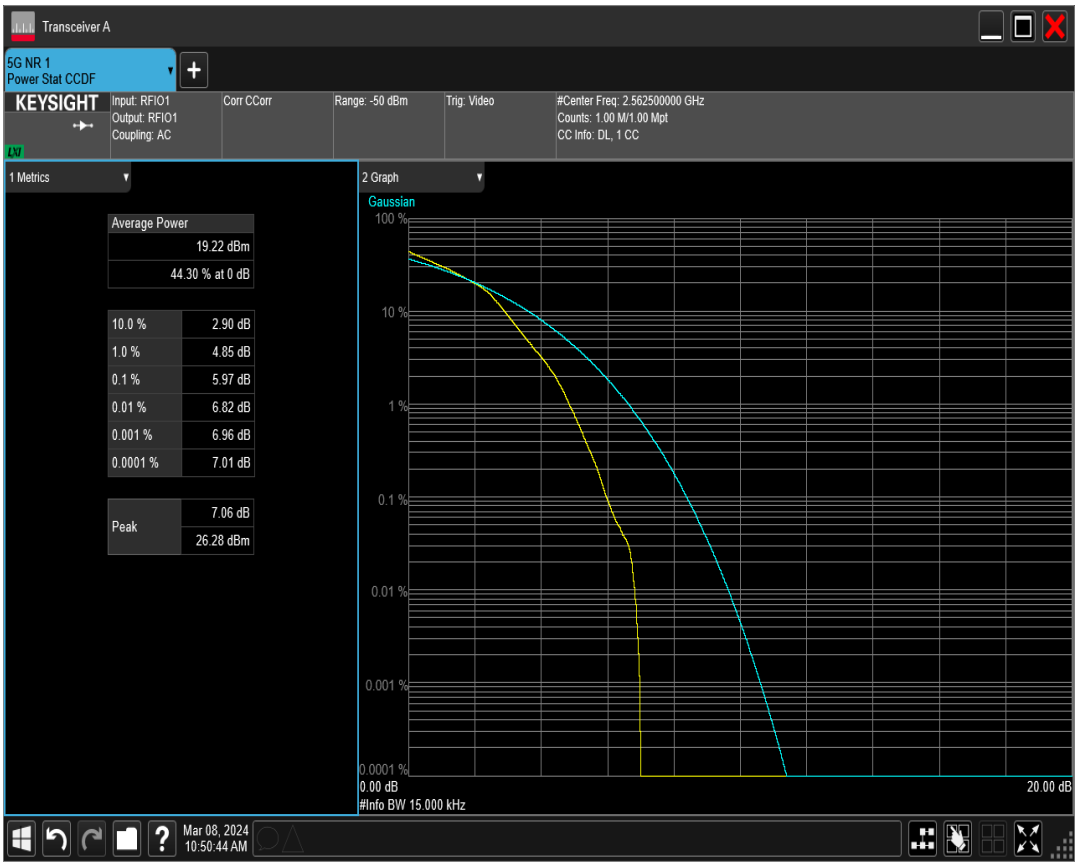
n7 SCS=30kHz DFT_QAM16 BW=15MHz Channel=501500 RB=36@0



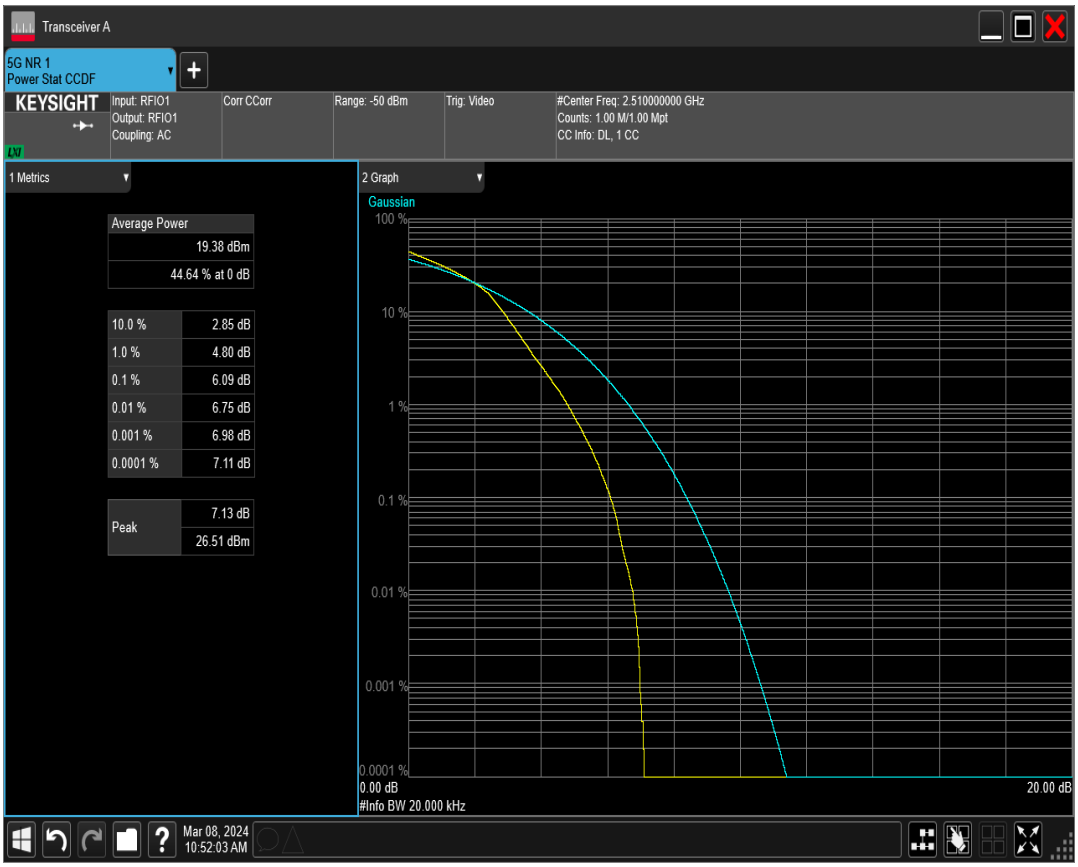
n7 SCS=30kHz DFT_QAM16 BW=15MHz Channel=507000 RB=36@0



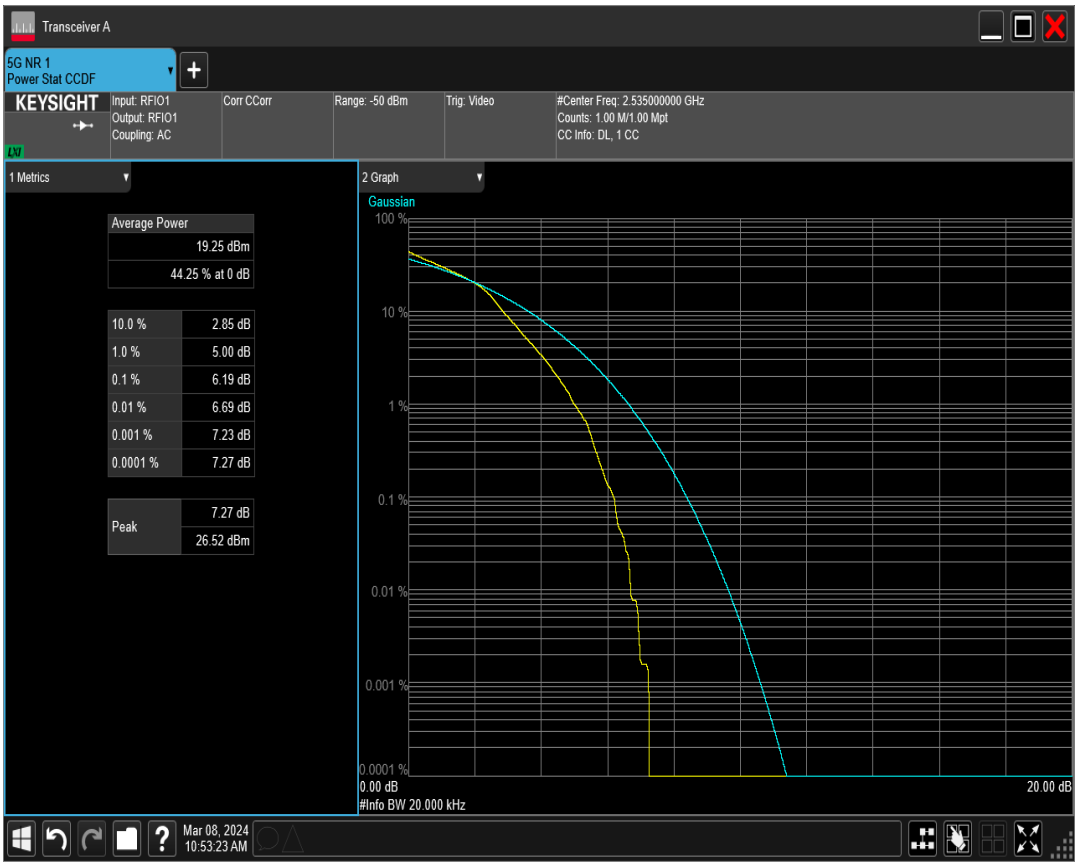
n7 SCS=30kHz DFT_QAM16 BW=15MHz Channel=512500 RB=36@0



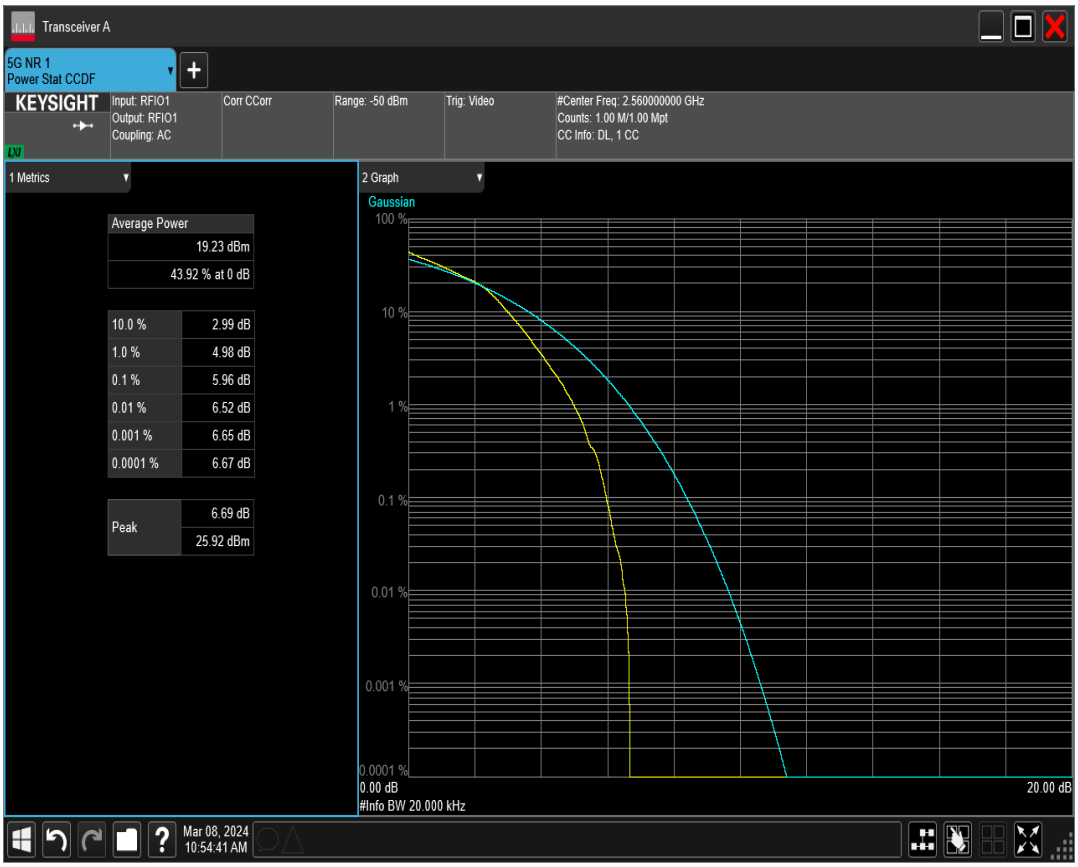
n7 SCS=30kHz DFT_QAM16 BW=20MHz Channel=502000 RB=50@0



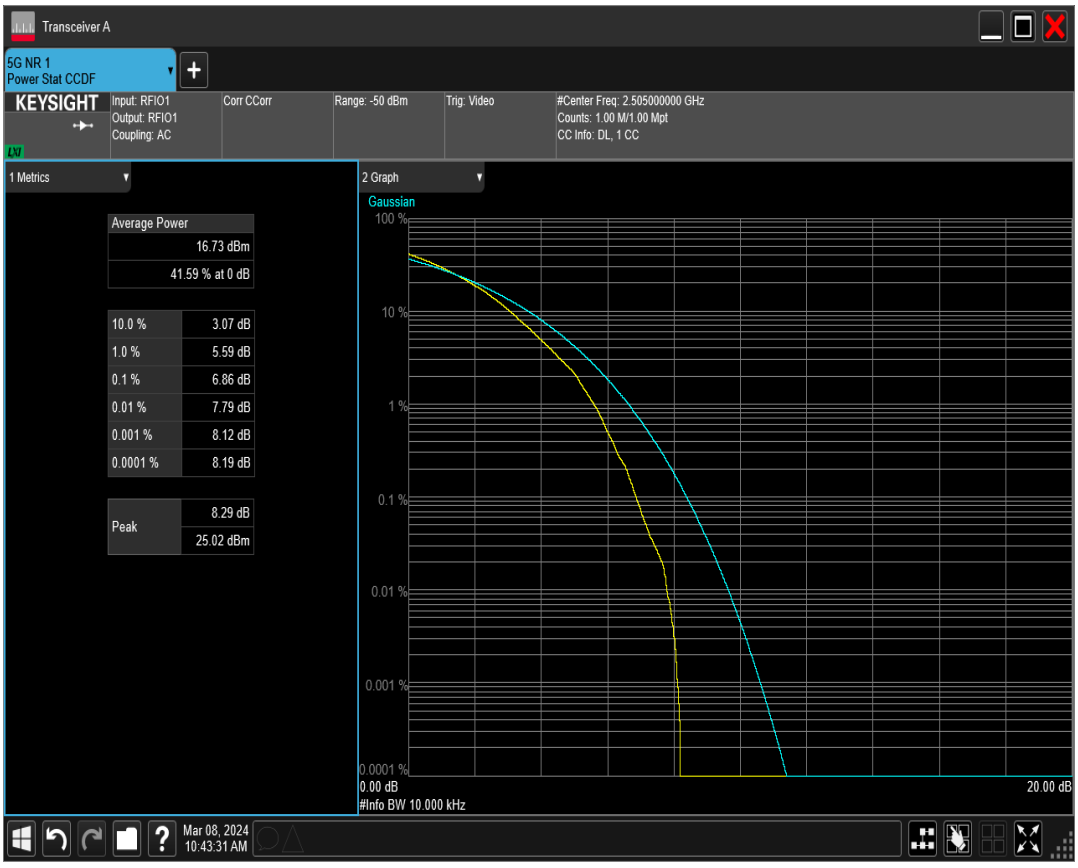
n7 SCS=30kHz DFT_QAM16 BW=20MHz Channel=507000 RB=50@0



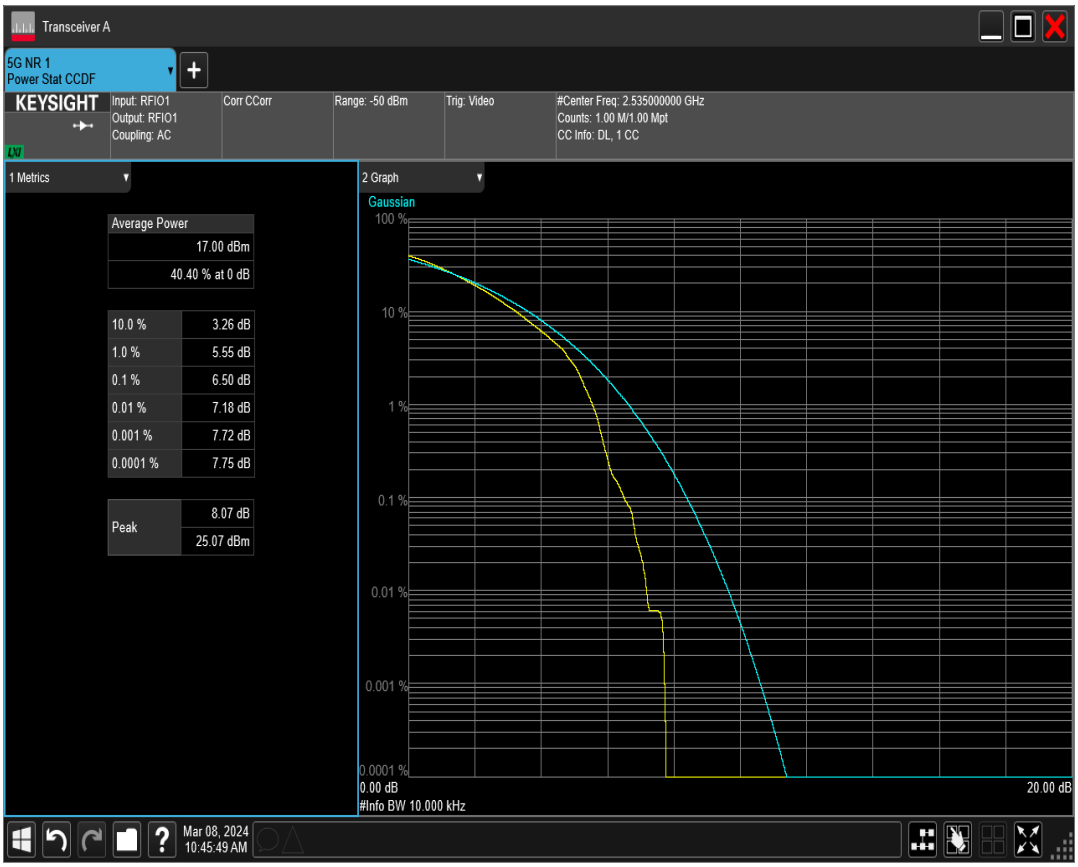
n7 SCS=30kHz DFT_QAM16 BW=20MHz Channel=512000 RB=50@0



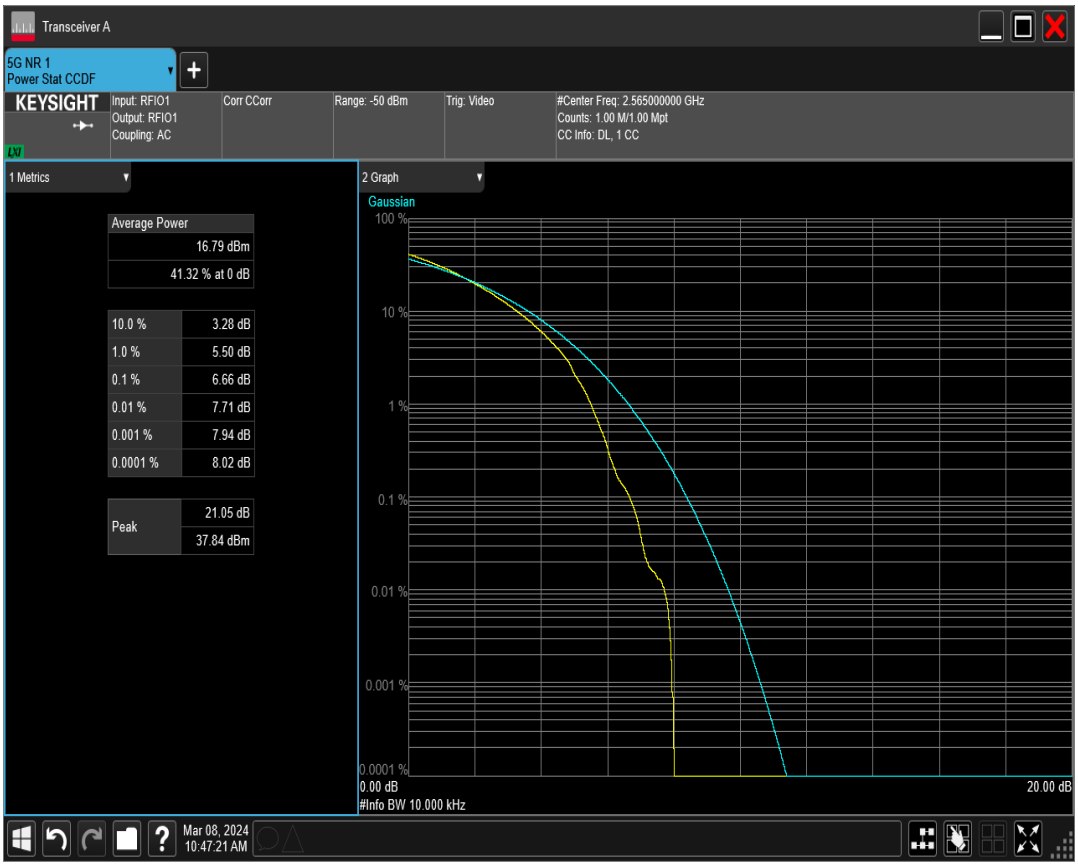
n7 SCS=30kHz DFT_QAM256 BW=10MHz Channel=501000 RB=24@0



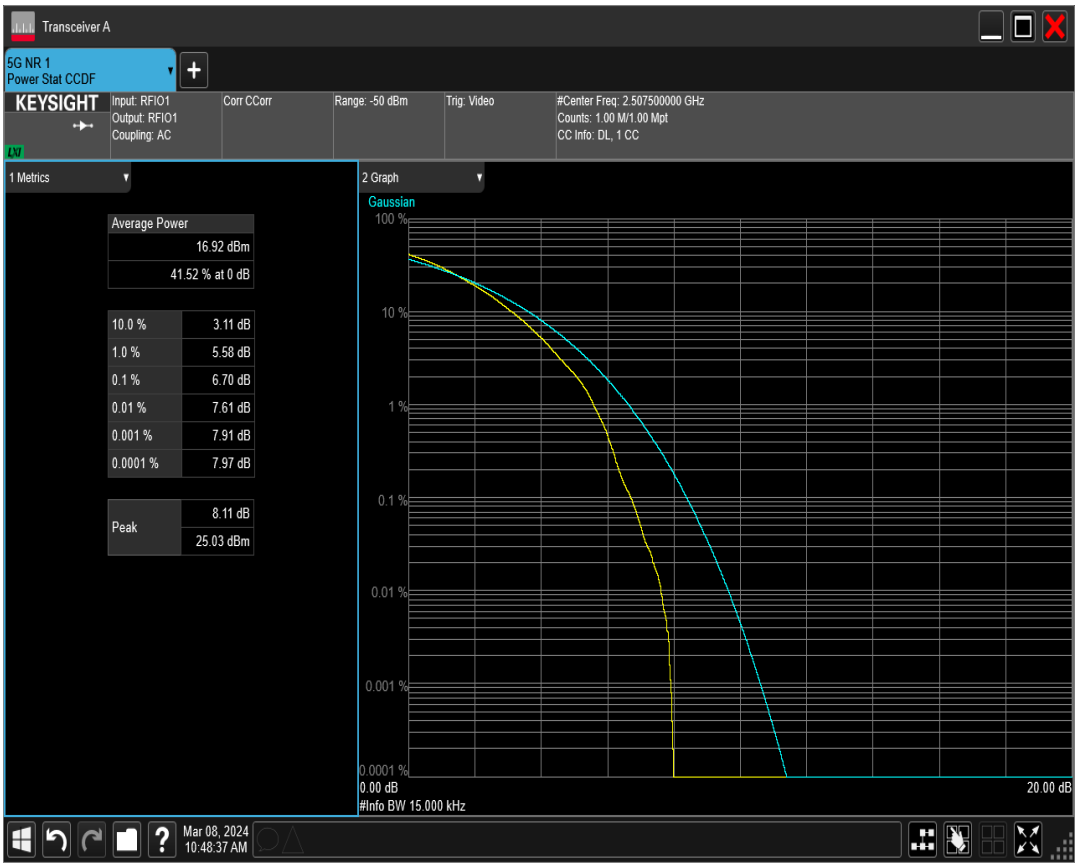
n7 SCS=30kHz DFT_QAM256 BW=10MHz Channel=507000 RB=24@0



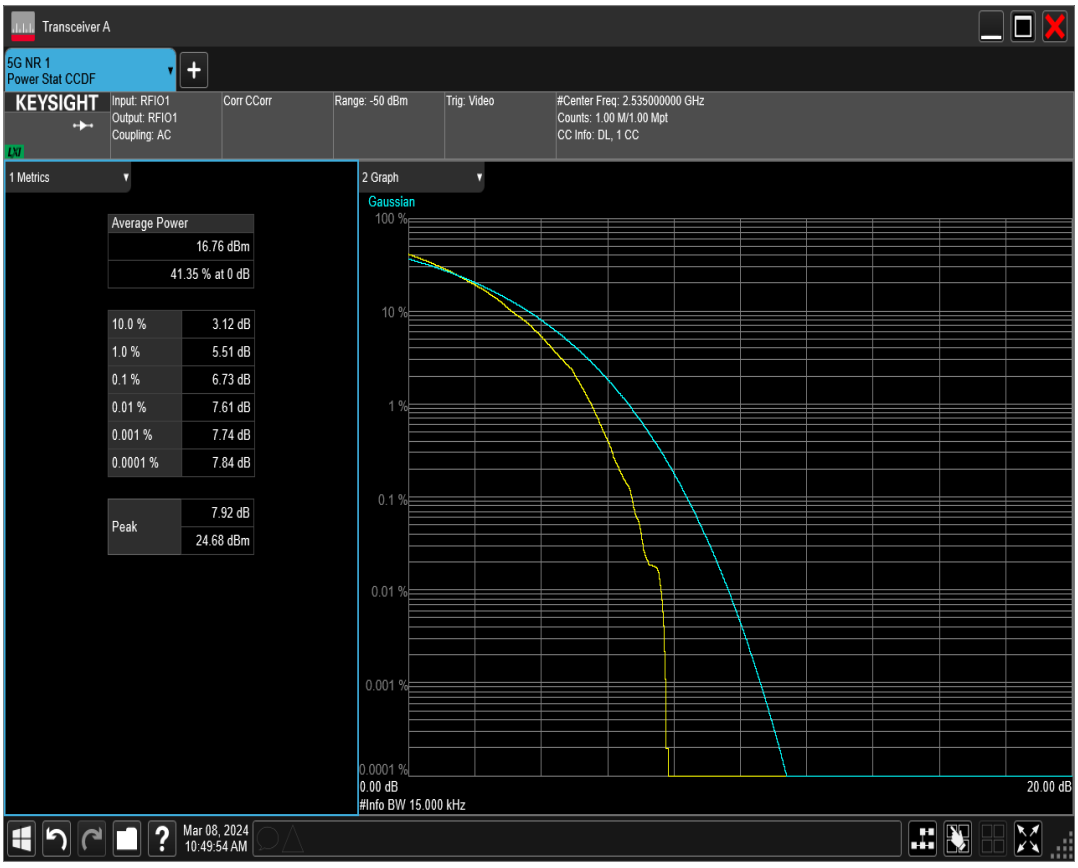
n7 SCS=30kHz DFT_QAM256 BW=10MHz Channel=513000 RB=24@0



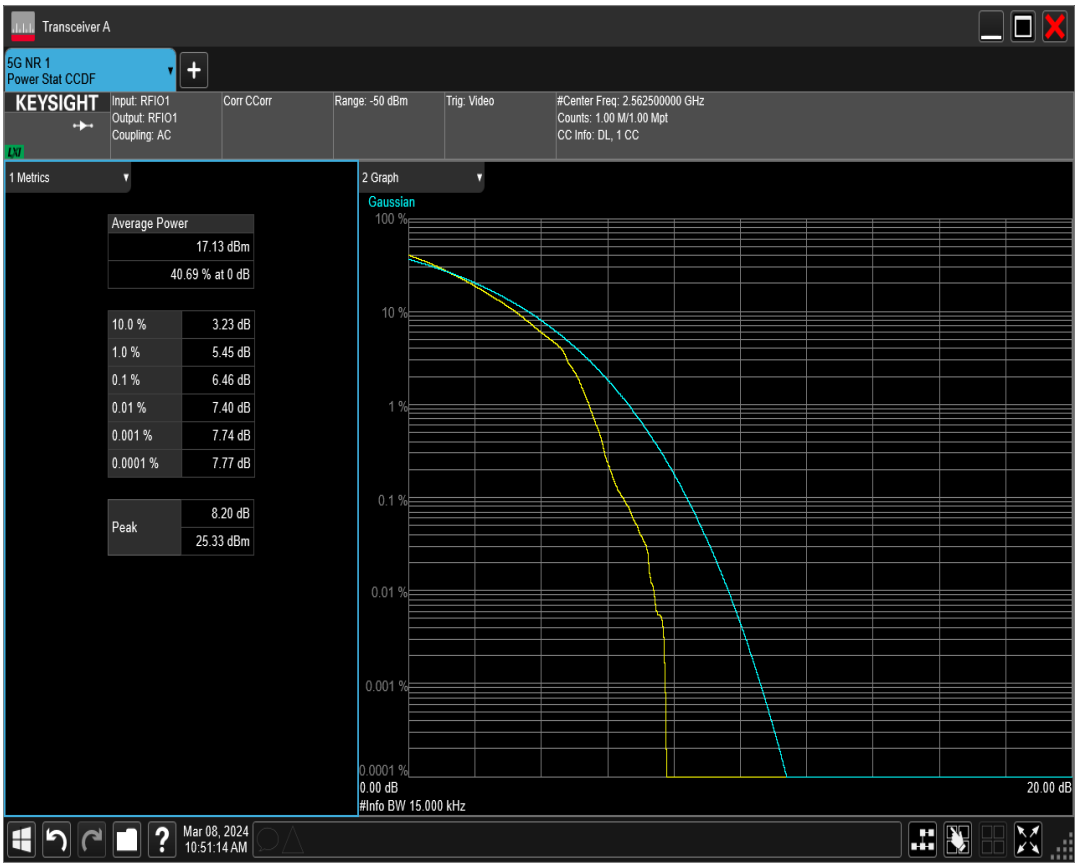
n7 SCS=30kHz DFT_QAM256 BW=15MHz Channel=501500 RB=36@0



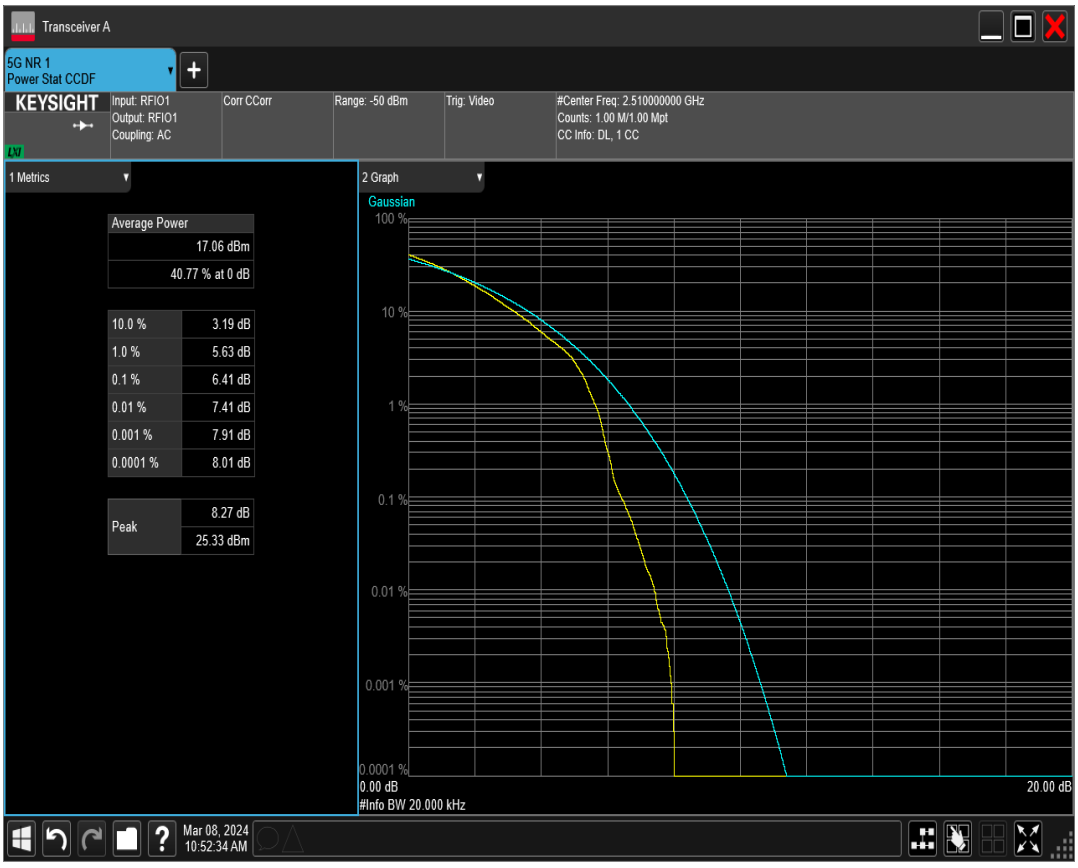
n7 SCS=30kHz DFT_QAM256 BW=15MHz Channel=507000 RB=36@0



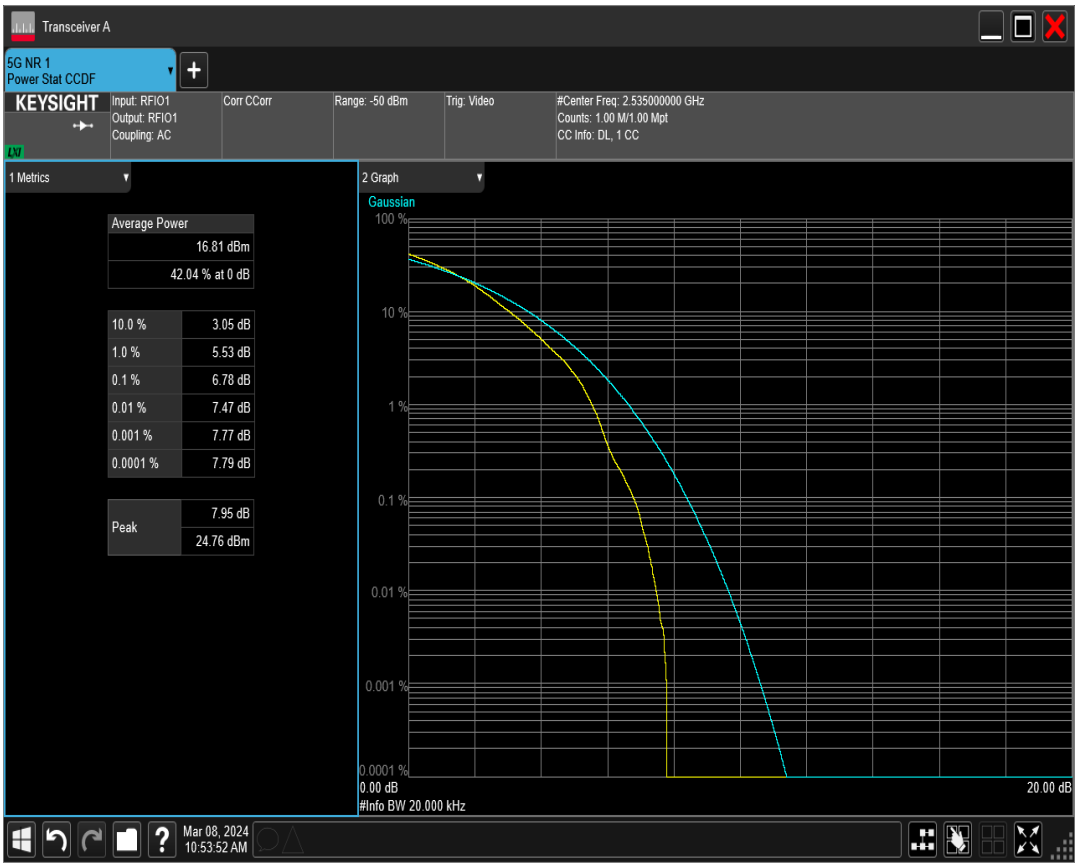
n7 SCS=30kHz DFT_QAM256 BW=15MHz Channel=512500 RB=36@0



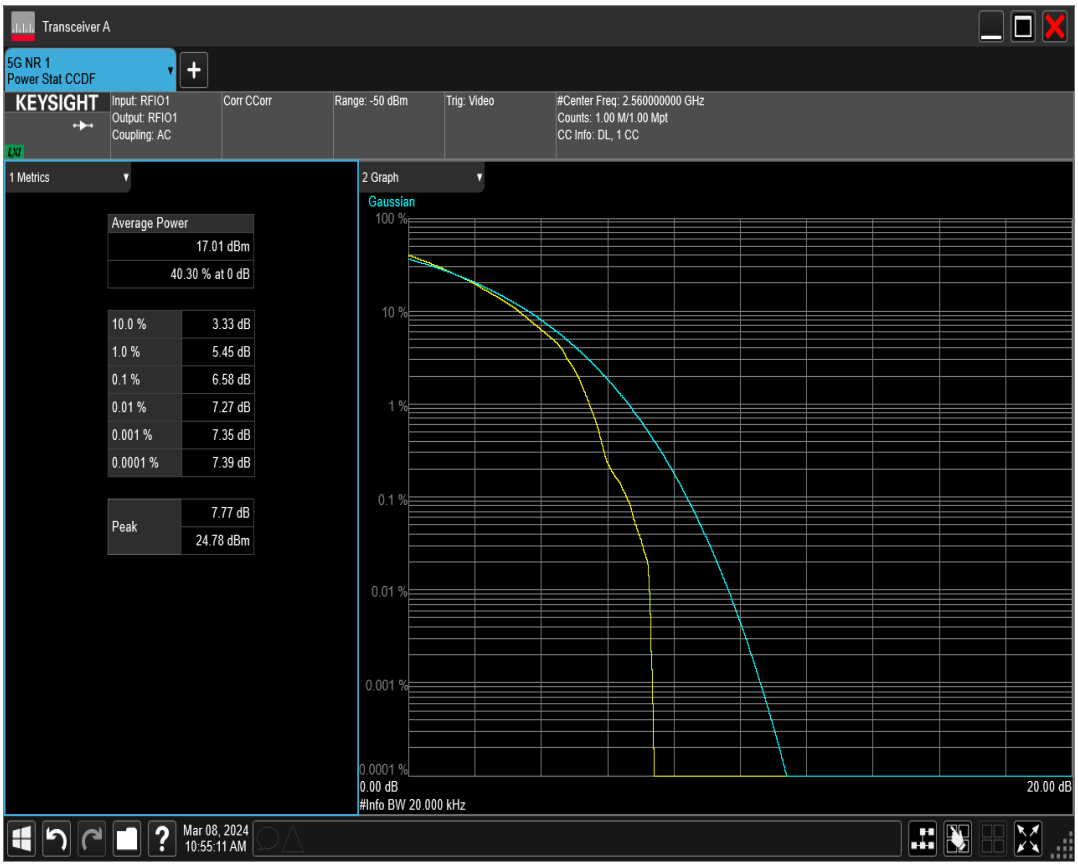
n7 SCS=30kHz DFT_QAM256 BW=20MHz Channel=502000 RB=50@0



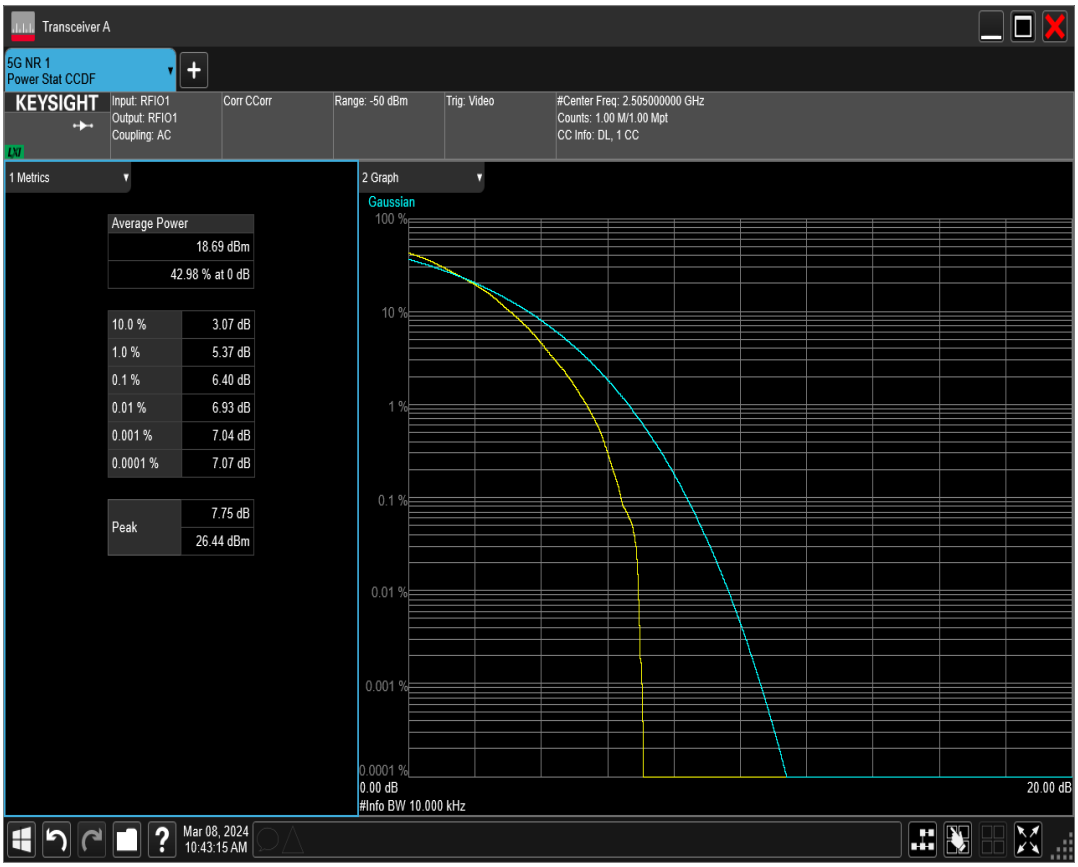
n7 SCS=30kHz DFT_QAM256 BW=20MHz Channel=507000 RB=50@0



n7 SCS=30kHz DFT_QAM256 BW=20MHz Channel=512000 RB=50@0



n7 SCS=30kHz DFT_QAM64 BW=10MHz Channel=501000 RB=24@0



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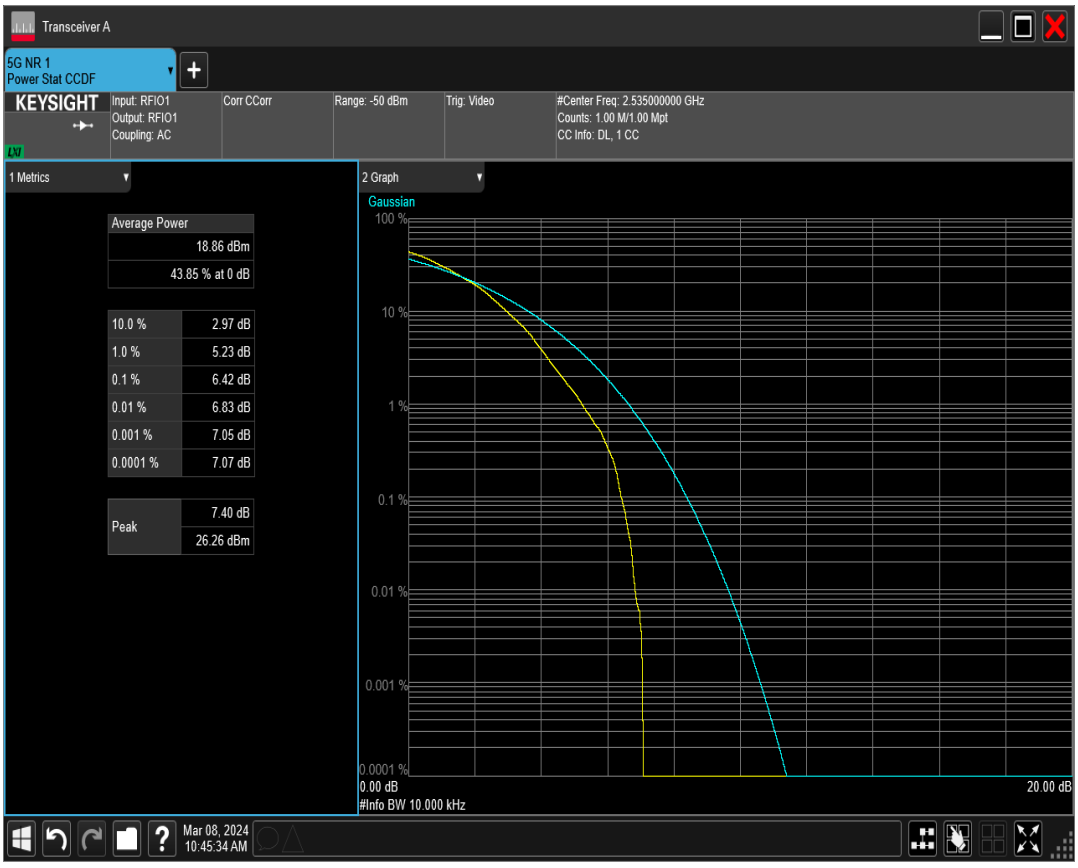

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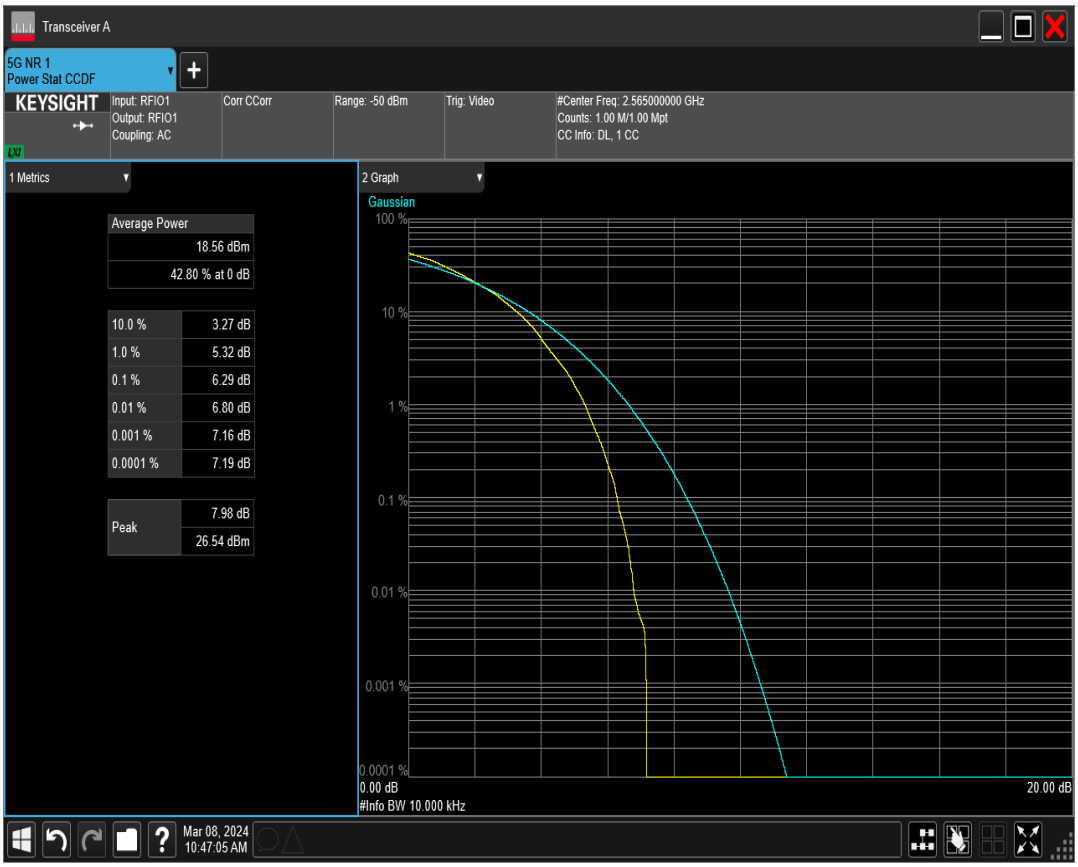
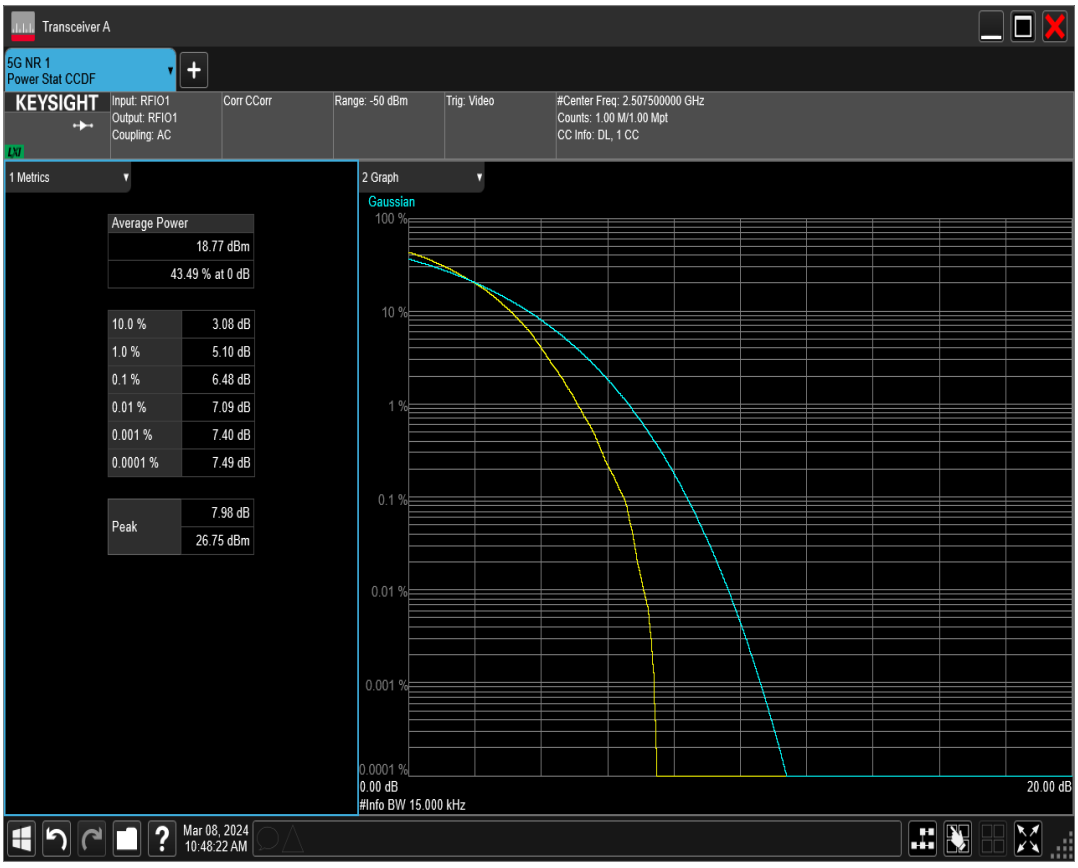


n7 SCS=30kHz DFT_QAM64 BW=15MHz Channel=501500 RB=36@0



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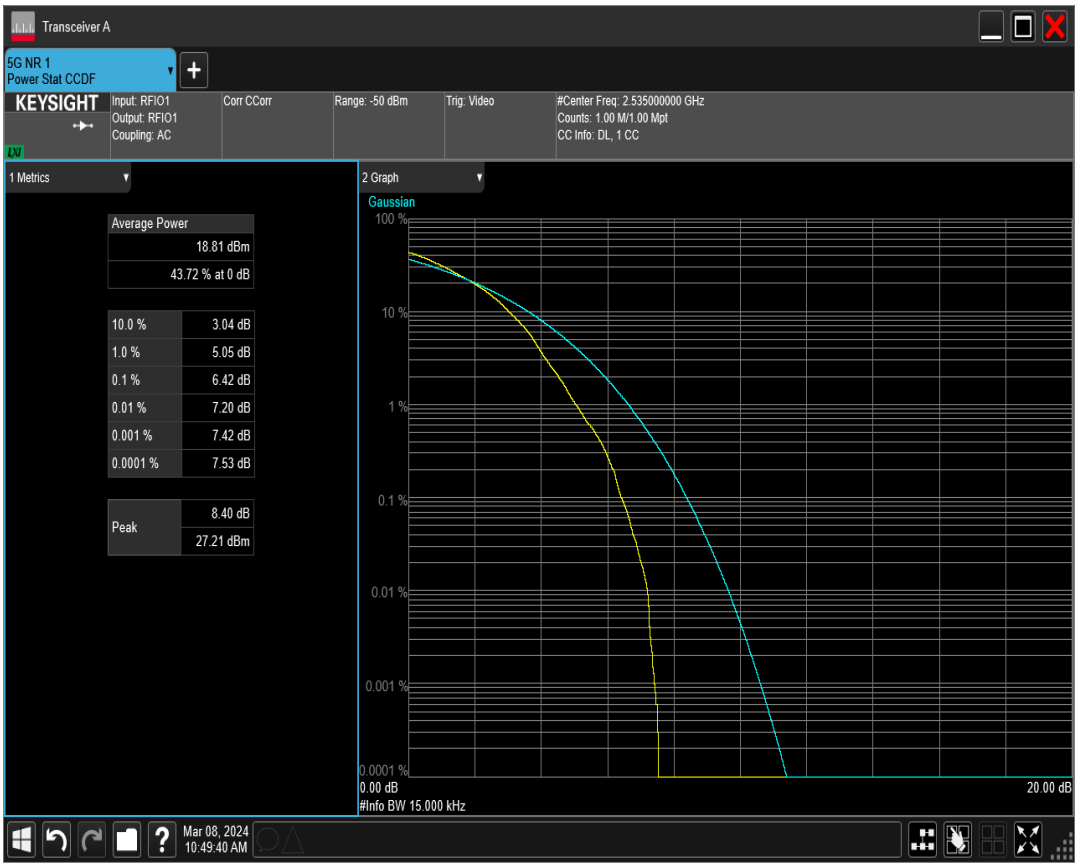
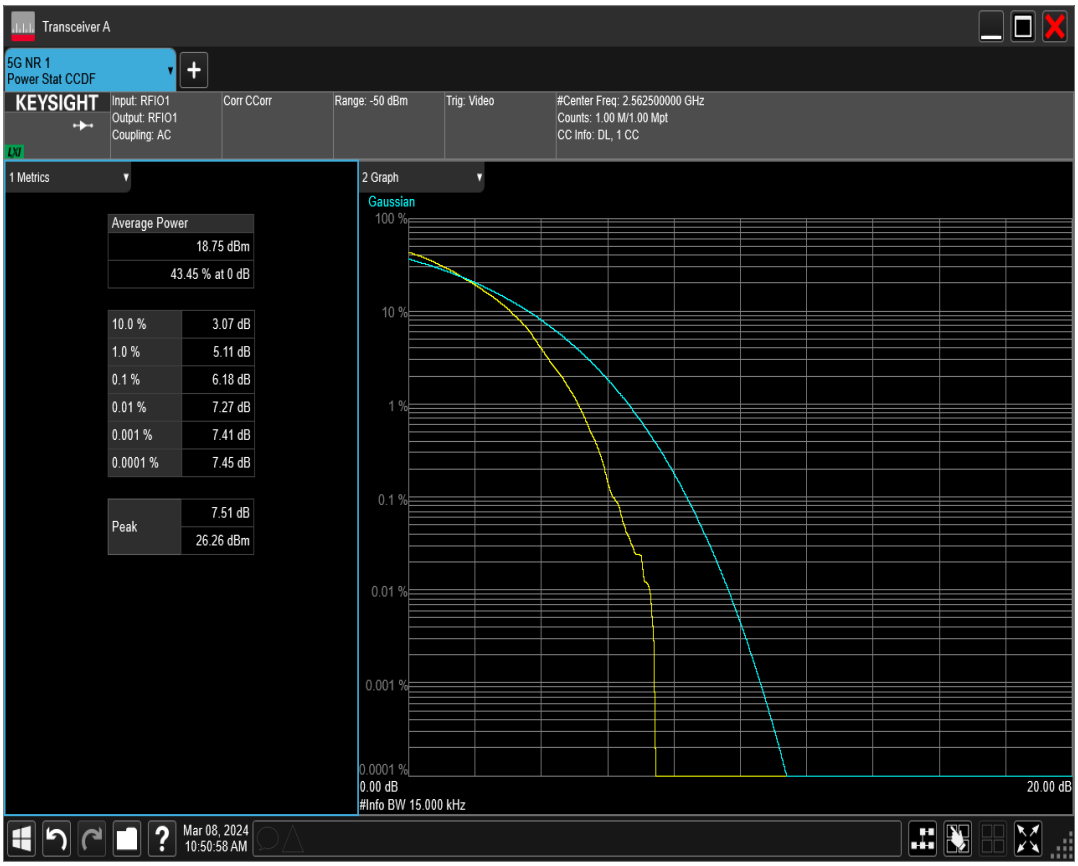
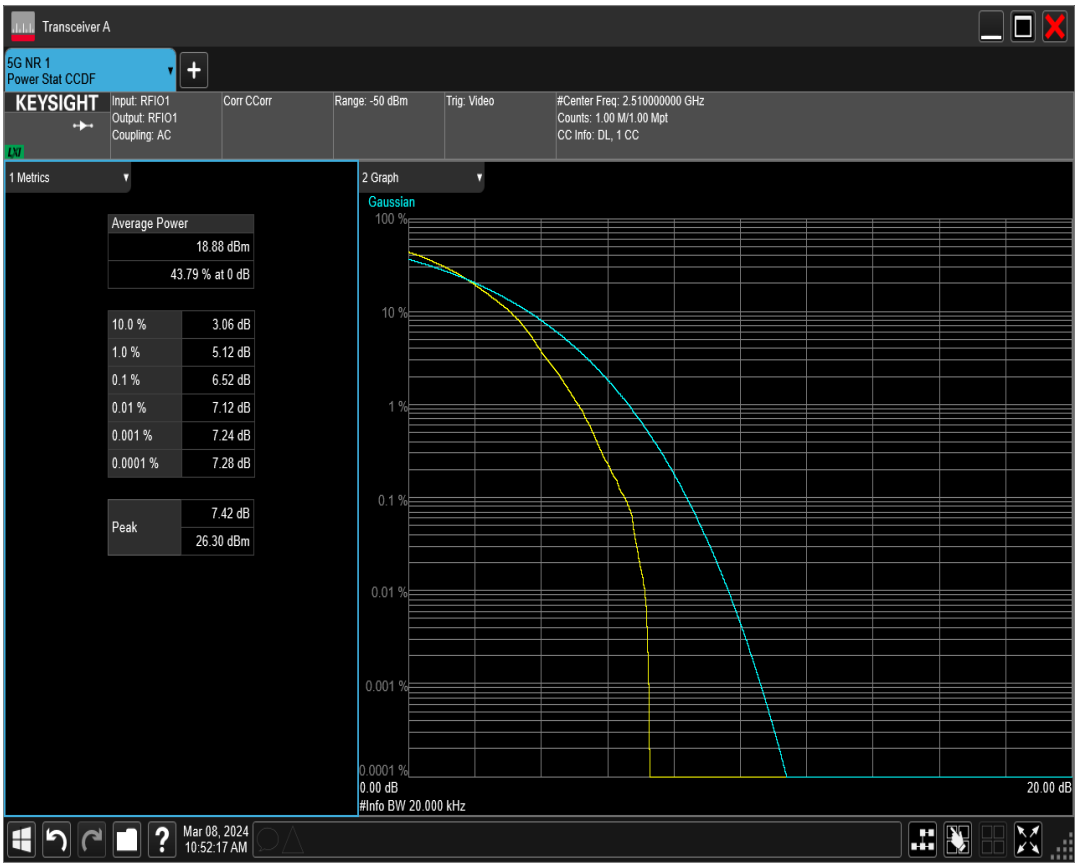


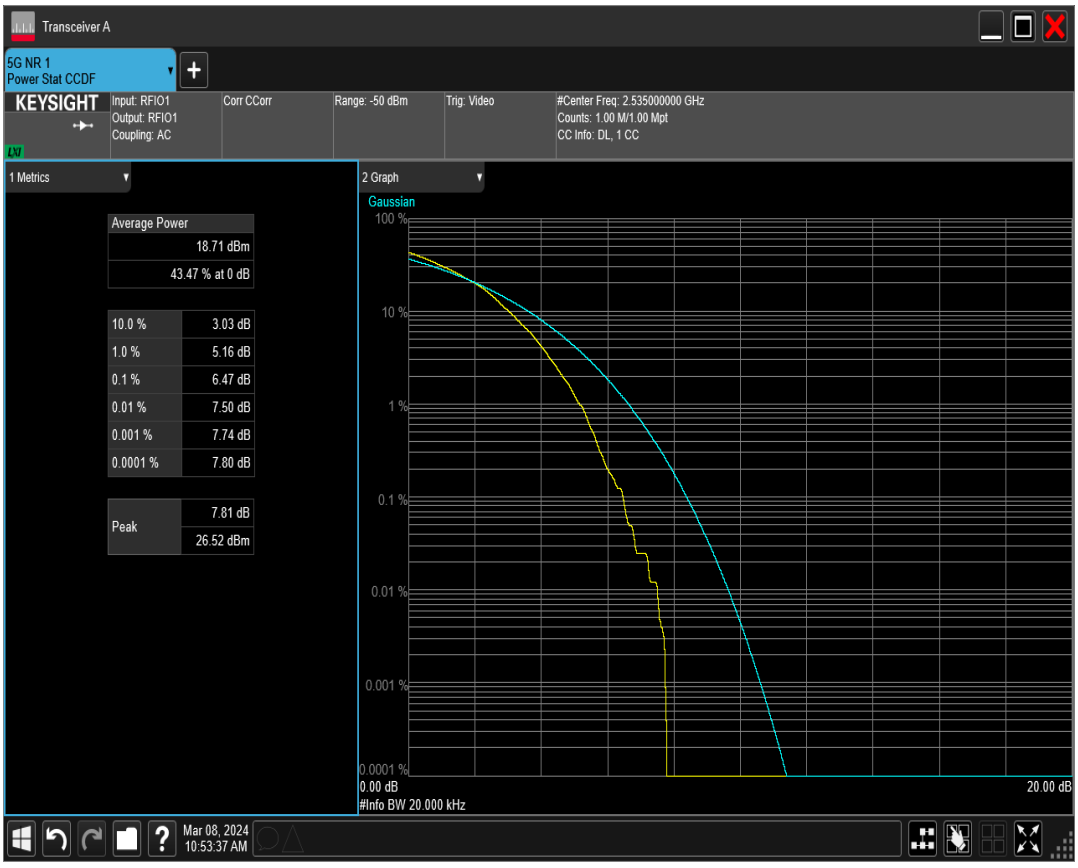
n7 SCS=30kHz DFT_QAM64 BW=15MHz Channel=512500 RB=36@0



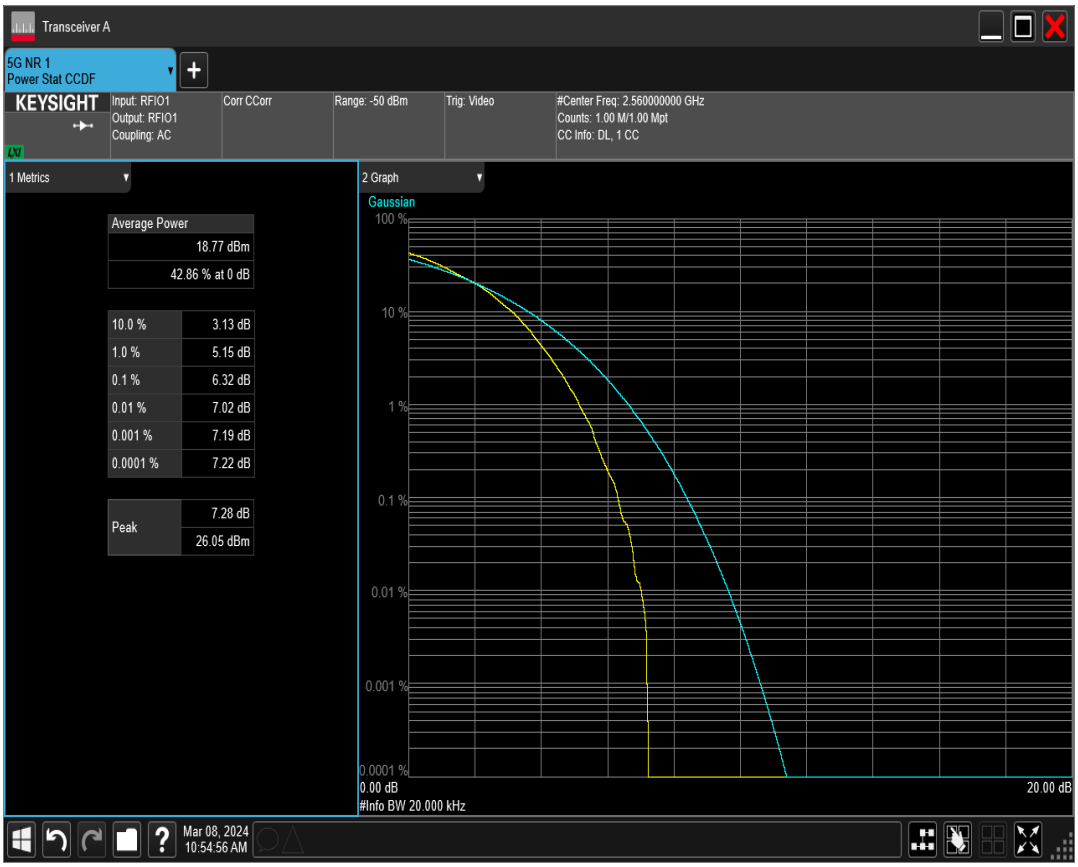
n7 SCS=30kHz DFT_QAM64 BW=20MHz Channel=502000 RB=50@0



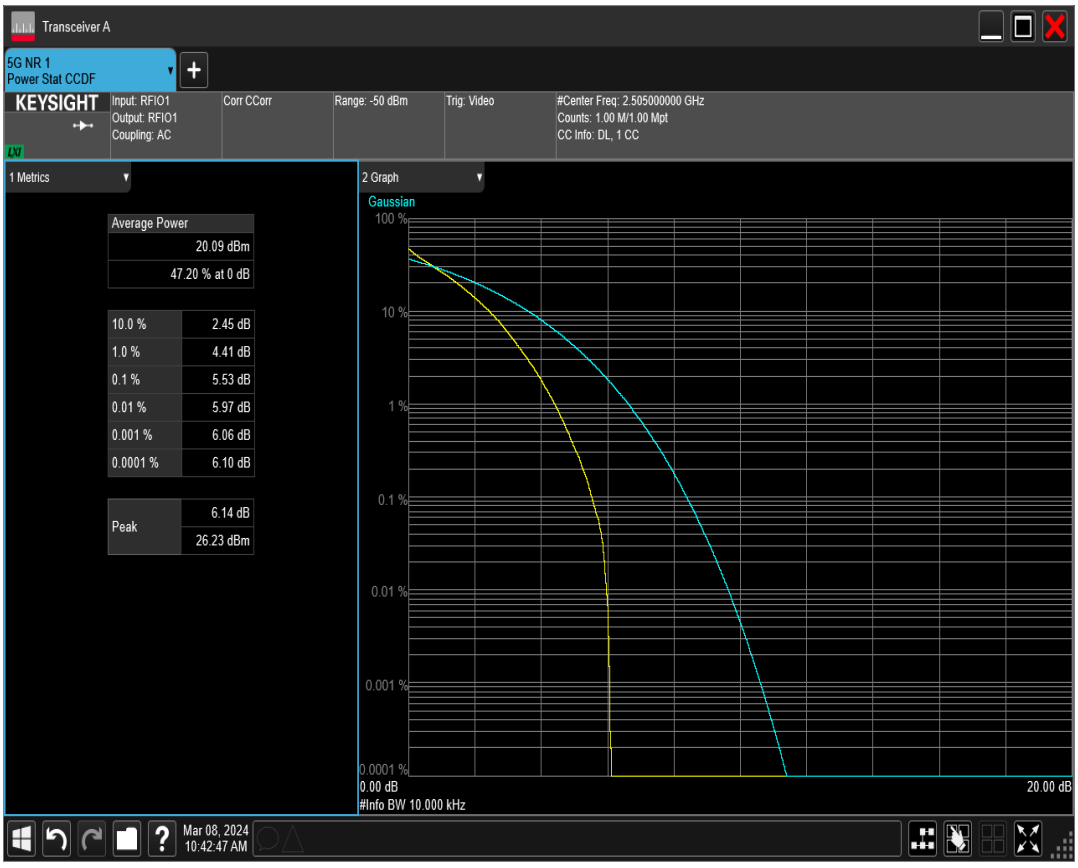
n7 SCS=30kHz DFT_QAM64 BW=20MHz Channel=507000 RB=50@0



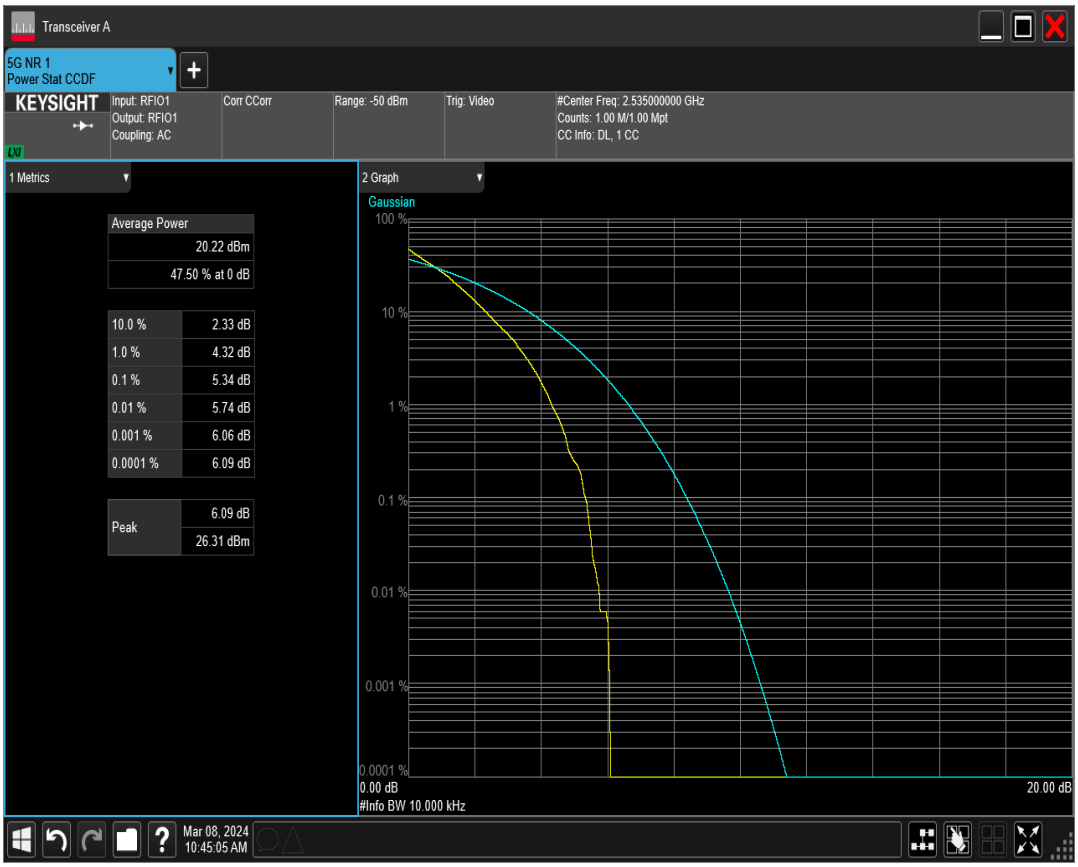
n7 SCS=30kHz DFT_QAM64 BW=20MHz Channel=512000 RB=50@0



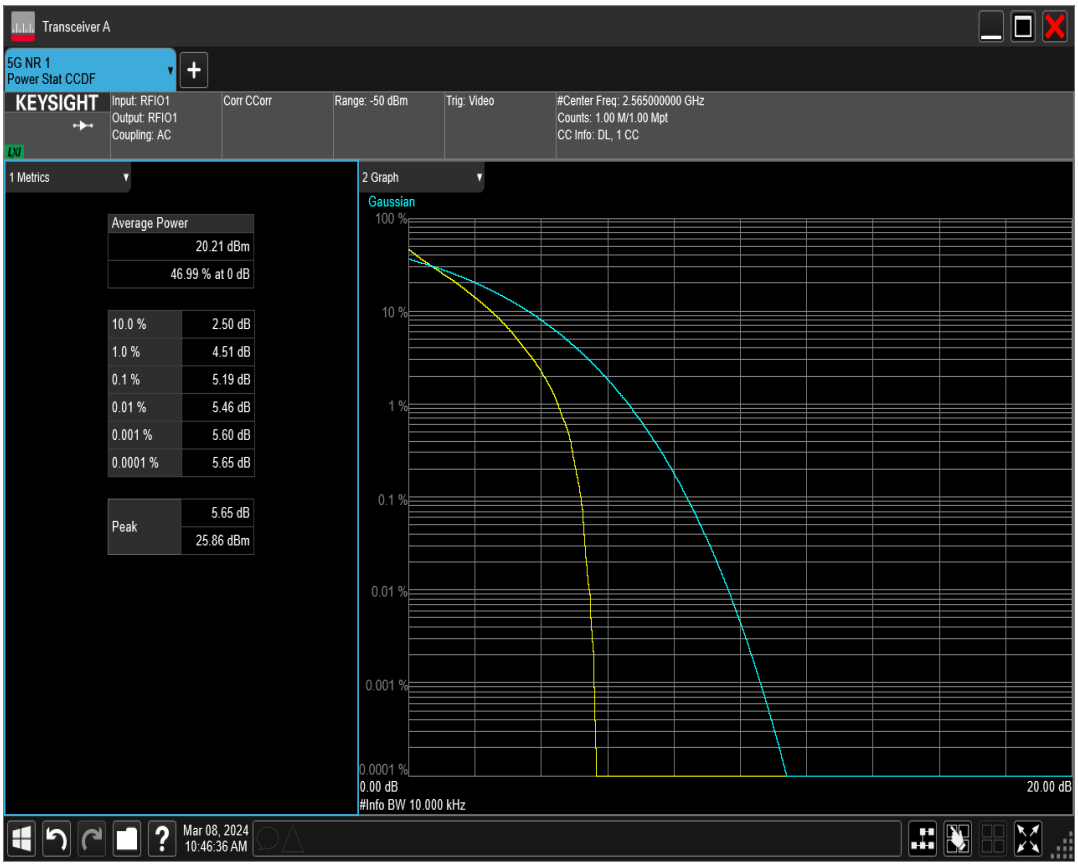
n7 SCS=30kHz DFT_QPSK BW=10MHz Channel=501000 RB=24@0



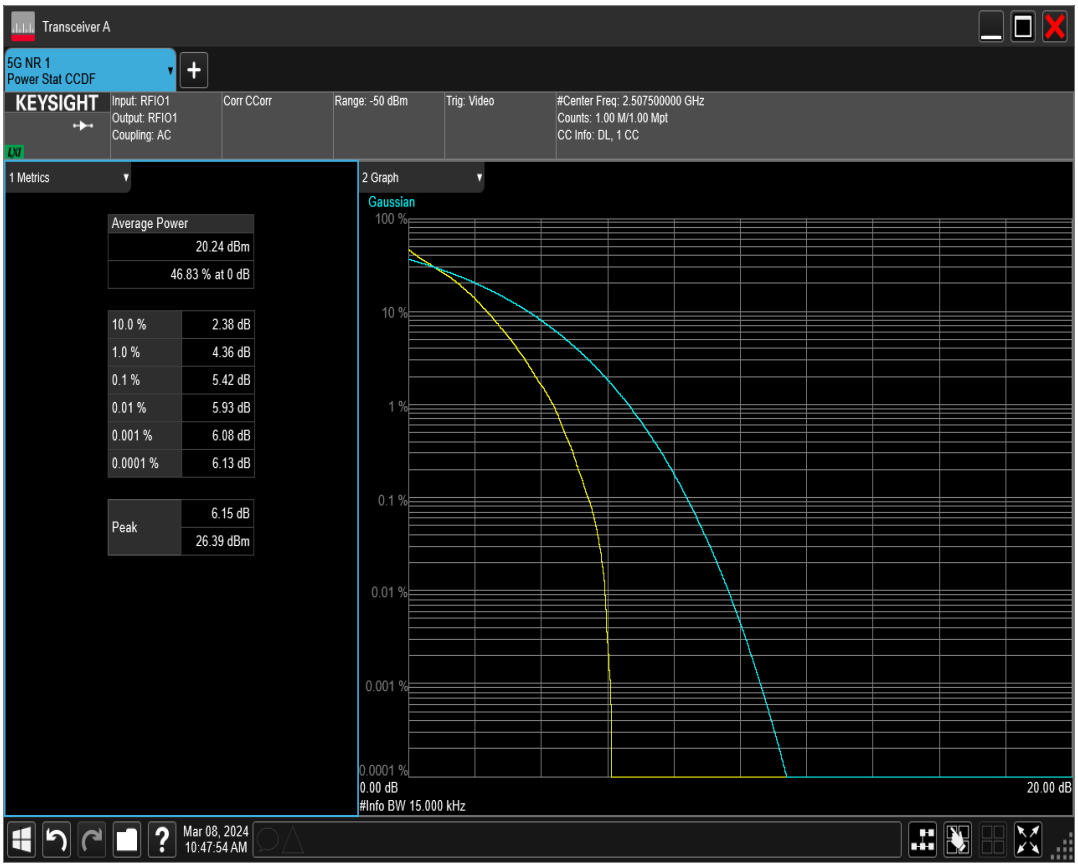
n7 SCS=30kHz DFT_QPSK BW=10MHz Channel=507000 RB=24@0



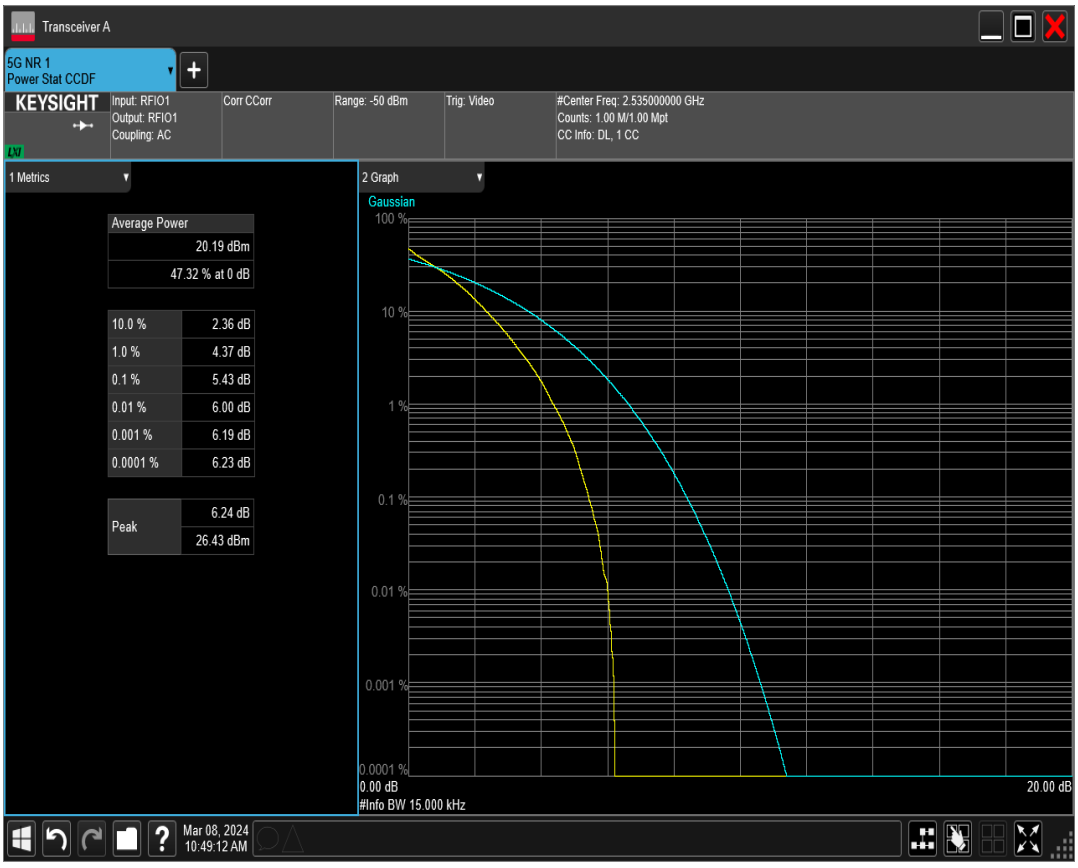
n7 SCS=30kHz DFT_QPSK BW=10MHz Channel=513000 RB=24@0



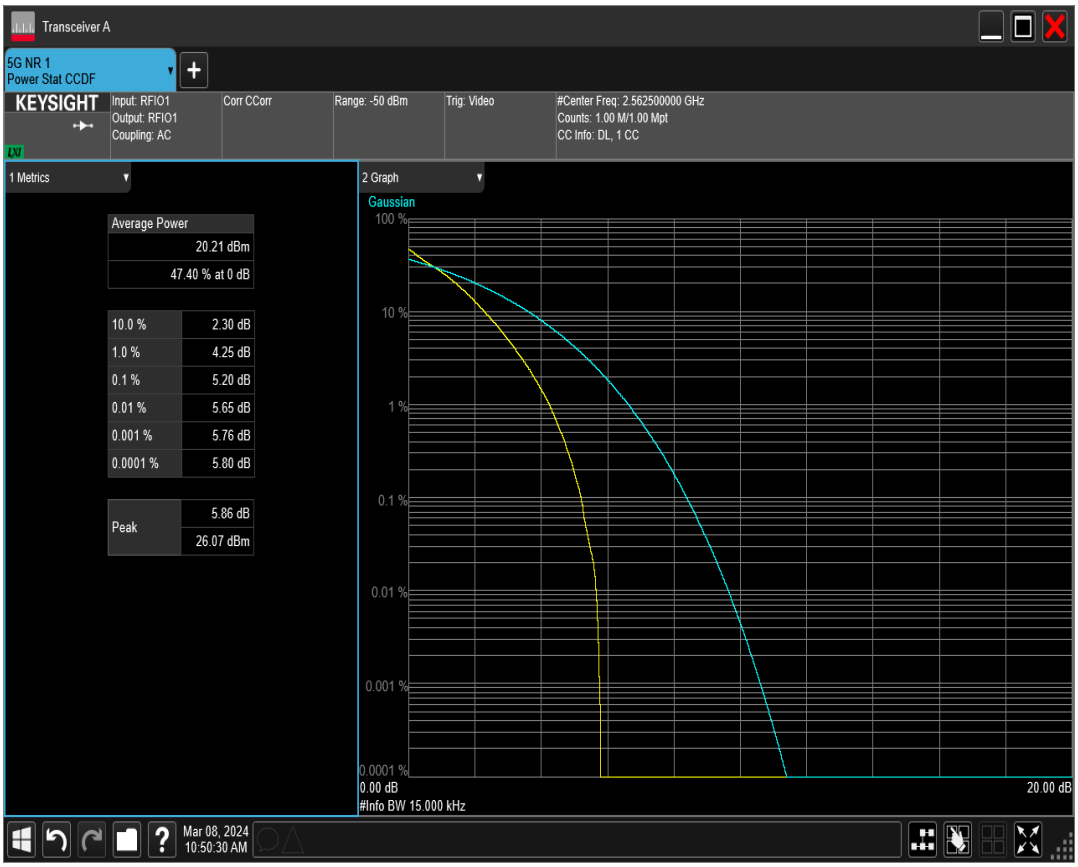
n7 SCS=30kHz DFT_QPSK BW=15MHz Channel=501500 RB=36@0



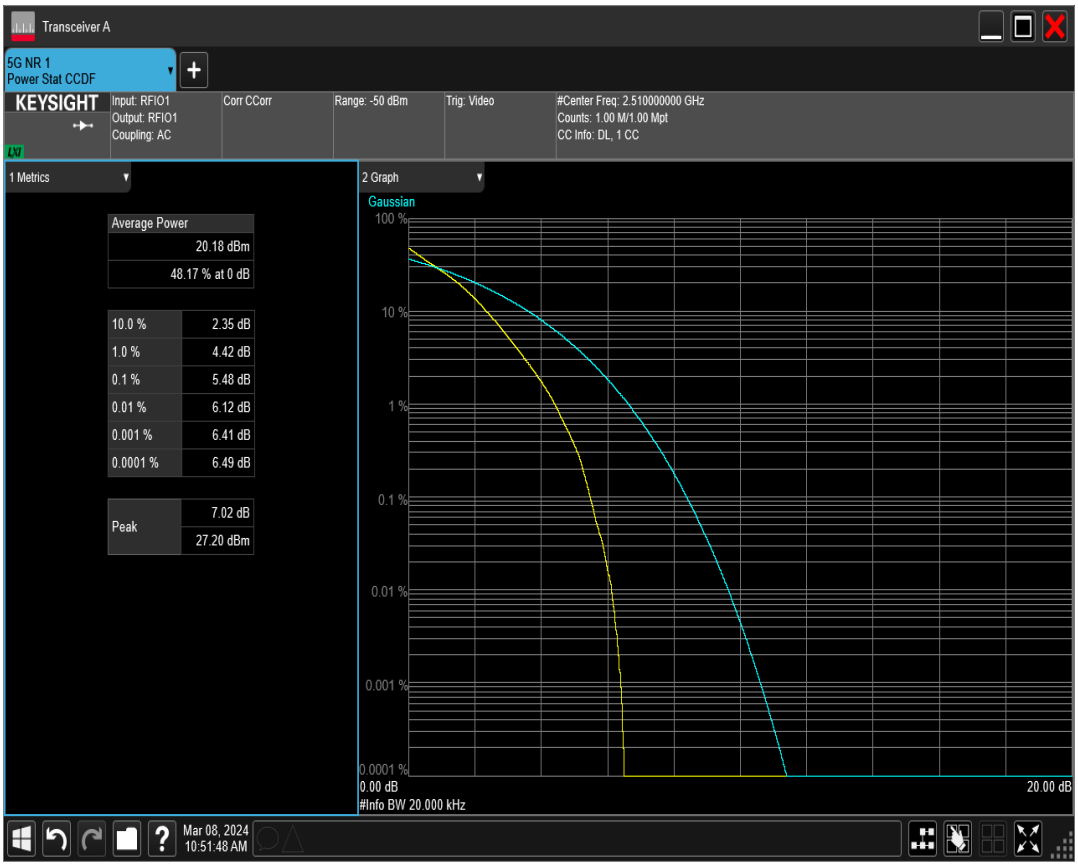
n7 SCS=30kHz DFT_QPSK BW=15MHz Channel=507000 RB=36@0



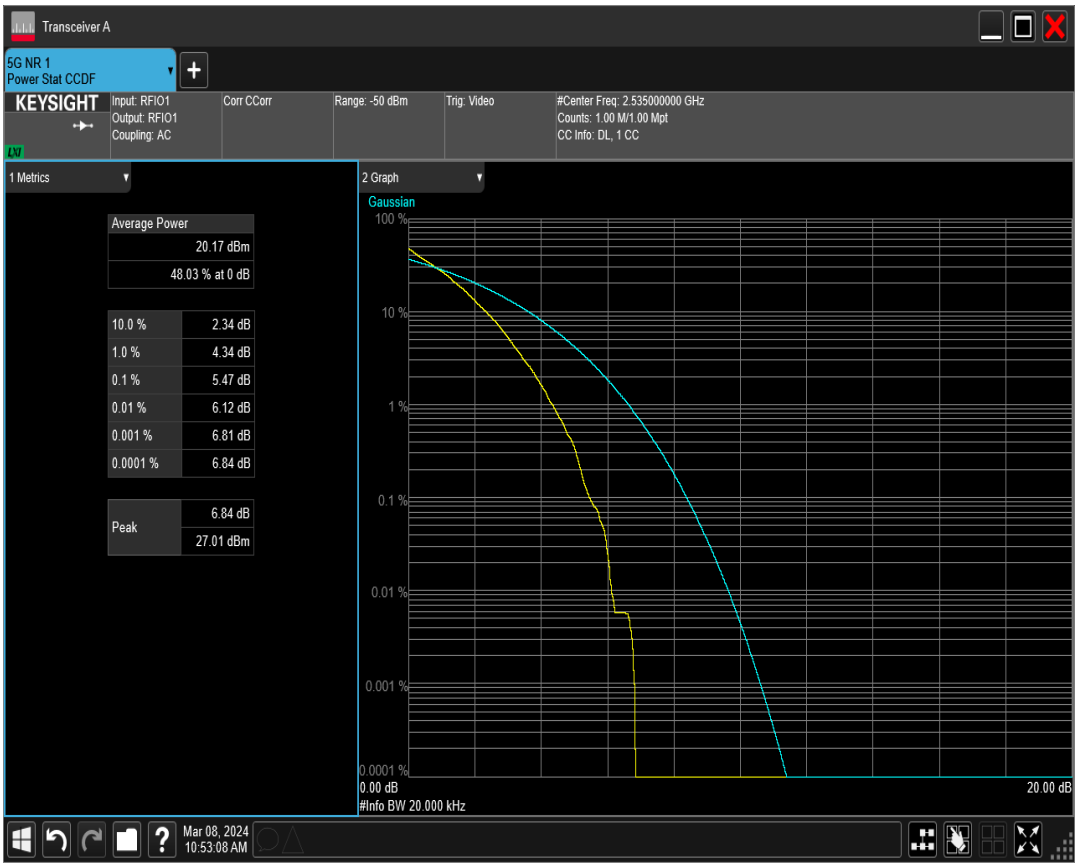
n7 SCS=30kHz DFT_QPSK BW=15MHz Channel=512500 RB=36@0



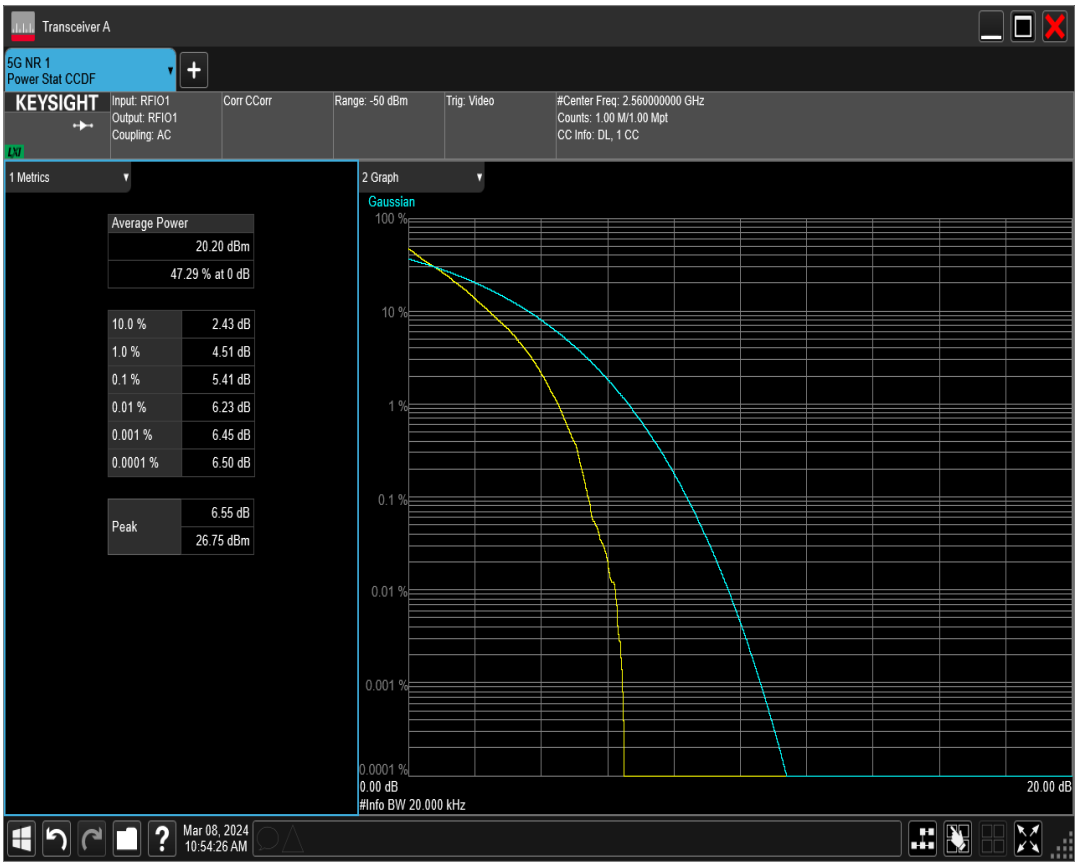
n7 SCS=30kHz DFT_QPSK BW=20MHz Channel=502000 RB=50@0



n7 SCS=30kHz DFT_QPSK BW=20MHz Channel=507000 RB=50@0



n7 SCS=30kHz DFT_QPSK BW=20MHz Channel=512000 RB=50@0



4 Occupied bandwidth for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
n7	30	10	507000	24@0	DFT_BPSK	8.550	8.890	PASS
n7	30	10	507000	24@0	DFT_QPSK	8.580	8.880	PASS
n7	30	10	507000	24@0	DFT_QAM16	8.550	8.840	PASS
n7	30	10	507000	24@0	DFT_QAM64	8.550	8.880	PASS
n7	30	10	507000	24@0	DFT_QAM256	8.530	8.870	PASS
n7	30	15	507000	36@0	DFT_BPSK	13.450	13.220	PASS
n7	30	15	507000	36@0	DFT_QPSK	13.420	13.240	PASS
n7	30	15	507000	36@0	DFT_QAM16	13.430	13.250	PASS
n7	30	15	507000	36@0	DFT_QAM64	13.490	13.280	PASS
n7	30	15	507000	36@0	DFT_QAM256	13.460	13.220	PASS
n7	30	20	507000	50@0	DFT_BPSK	18.010	18.260	PASS
n7	30	20	507000	50@0	DFT_QPSK	18.030	18.230	PASS
n7	30	20	507000	50@0	DFT_QAM16	17.930	18.260	PASS
n7	30	20	507000	50@0	DFT_QAM64	18.140	18.200	PASS
n7	30	20	507000	50@0	DFT_QAM256	18.030	18.220	PASS

n7 SCS=30kHz DFT_BPSK BW=10MHz Channel=507000 RB=24@0

n7 SCS=30kHz DFT_BPSK BW=15MHz Channel=507000 RB=36@0

n7 SCS=30kHz DFT_BPSK BW=20MHz Channel=507000 RB=50@0

n7 SCS=30kHz DFT_QAM16 BW=10MHz Channel=507000 RB=24@0

n7 SCS=30kHz DFT_QAM16 BW=15MHz Channel=507000 RB=36@0

n7 SCS=30kHz DFT_QAM16 BW=20MHz Channel=507000 RB=50@0

n7 SCS=30kHz DFT_QAM256 BW=10MHz Channel=507000 RB=24@0

n7 SCS=30kHz DFT_QAM256 BW=15MHz Channel=507000 RB=36@0

n7 SCS=30kHz DFT_QAM256 BW=20MHz Channel=507000 RB=50@0

n7 SCS=30kHz DFT_QAM64 BW=10MHz Channel=507000 RB=24@0

n7 SCS=30kHz DFT_QAM64 BW=15MHz Channel=507000 RB=36@0

n7 SCS=30kHz DFT_QAM64 BW=20MHz Channel=507000 RB=50@0

n7 SCS=30kHz DFT_QPSK BW=10MHz Channel=507000 RB=24@0

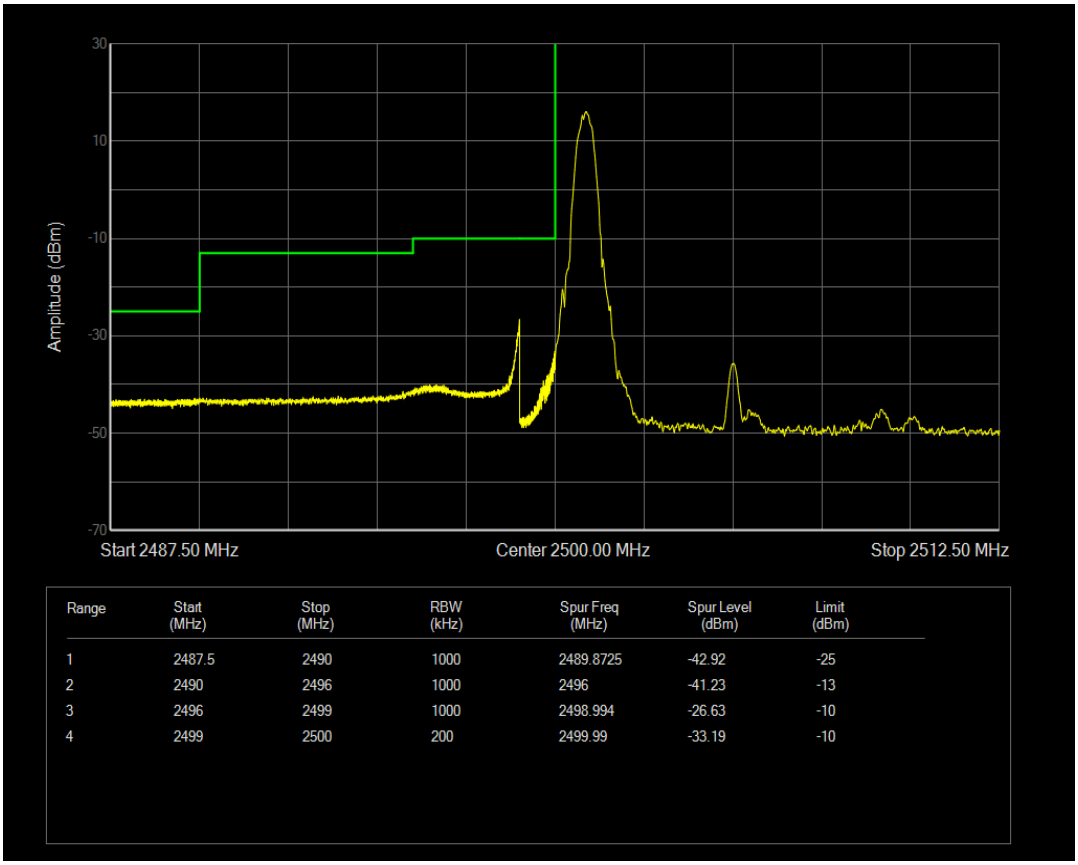
n7 SCS=30kHz DFT_QPSK BW=15MHz Channel=507000 RB=36@0

n7 SCS=30kHz DFT_QPSK BW=20MHz Channel=507000 RB=50@0

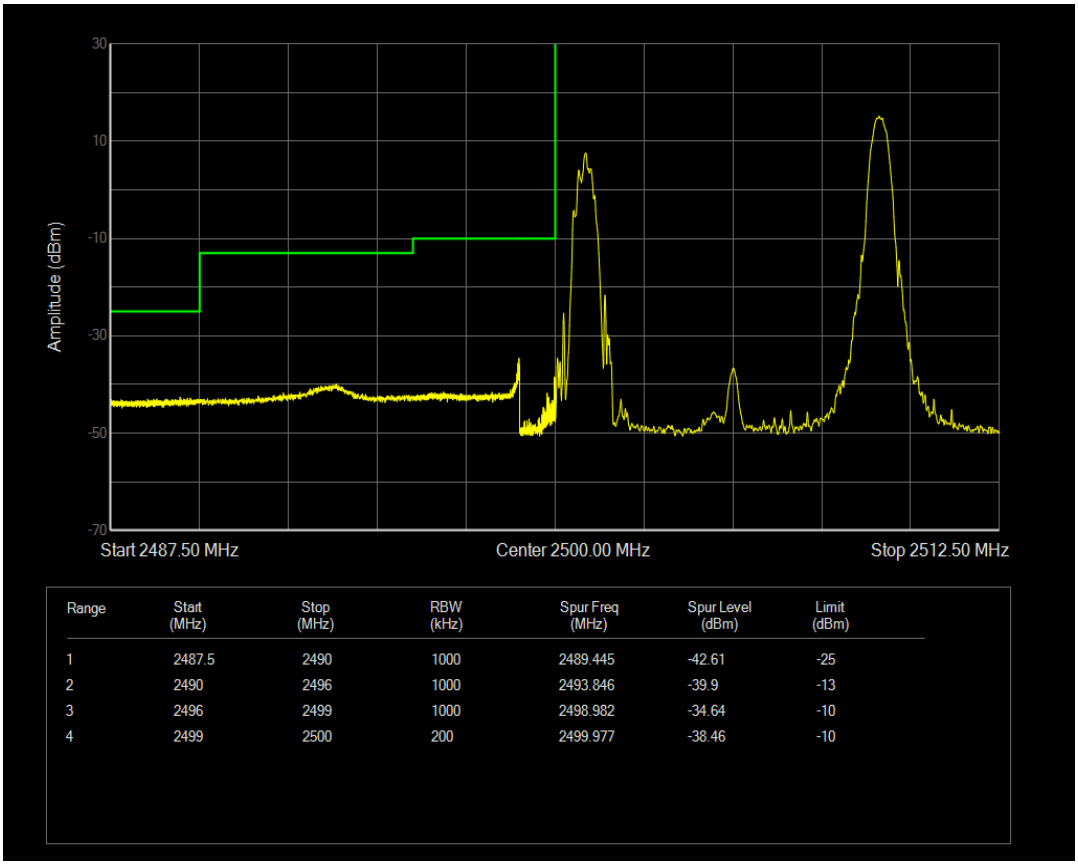
5 Band edge for NR FR1

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n7	30	10	501000	24@0	CP_QPSK	2489.99	-39.44	-25	PASS
n7	30	10	501000	1@0	CP_QPSK	2498.99	-26.63	-10	PASS
n7	30	10	501000	1@23	CP_QPSK	2489.45	-42.61	-25	PASS
n7	30	10	513000	24@0	CP_QPSK	2580.13	-39.88	-25	PASS
n7	30	10	513000	1@0	CP_QPSK	2580.14	-42.55	-25	PASS
n7	30	10	513000	1@23	CP_QPSK	2580.01	-42.77	-25	PASS
n7	30	15	501500	38@0	CP_QPSK	2484.96	-39.97	-25	PASS
n7	30	15	501500	1@0	CP_QPSK	2499.99	-23.88	-10	PASS
n7	30	15	501500	1@37	CP_QPSK	2483.98	-42.96	-25	PASS
n7	30	15	512500	38@0	CP_QPSK	2571.36	-24.64	-10	PASS
n7	30	15	512500	1@0	CP_QPSK	2586.19	-42.84	-25	PASS
n7	30	15	512500	1@37	CP_QPSK	2570.00	-23.91	-10	PASS
n7	30	20	502000	51@0	CP_QPSK	2479.99	-41.83	-25	PASS
n7	30	20	502000	1@0	CP_QPSK	2499.92	-19.73	-10	PASS
n7	30	20	502000	1@50	CP_QPSK	2479.77	-43.08	-25	PASS
n7	30	20	512000	51@0	CP_QPSK	2591.72	-41.65	-25	PASS
n7	30	20	512000	1@0	CP_QPSK	2592.36	-42.73	-25	PASS
n7	30	20	512000	1@50	CP_QPSK	2594.83	-42.71	-25	PASS

n7 SCS=30kHz CP_QPSK BW=10MHz Channel=501000 RB=1@0

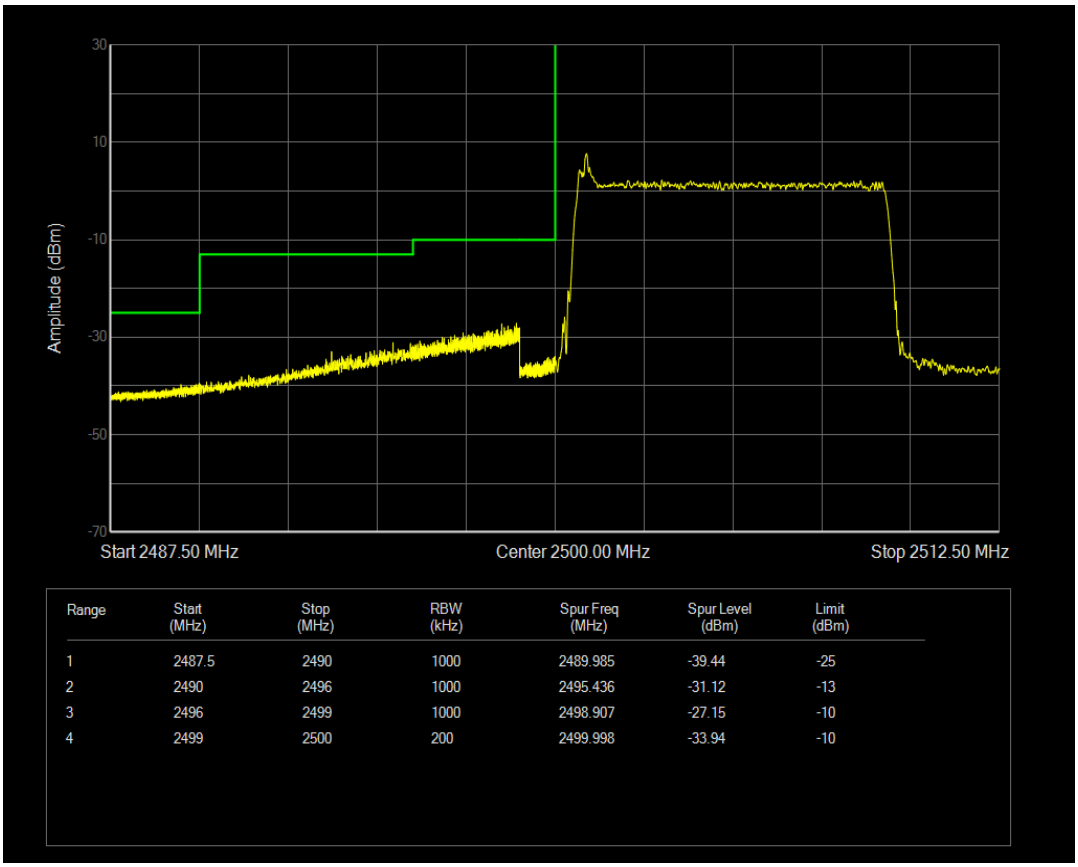


n7 SCS=30kHz CP_QPSK BW=10MHz Channel=501000 RB=1@23



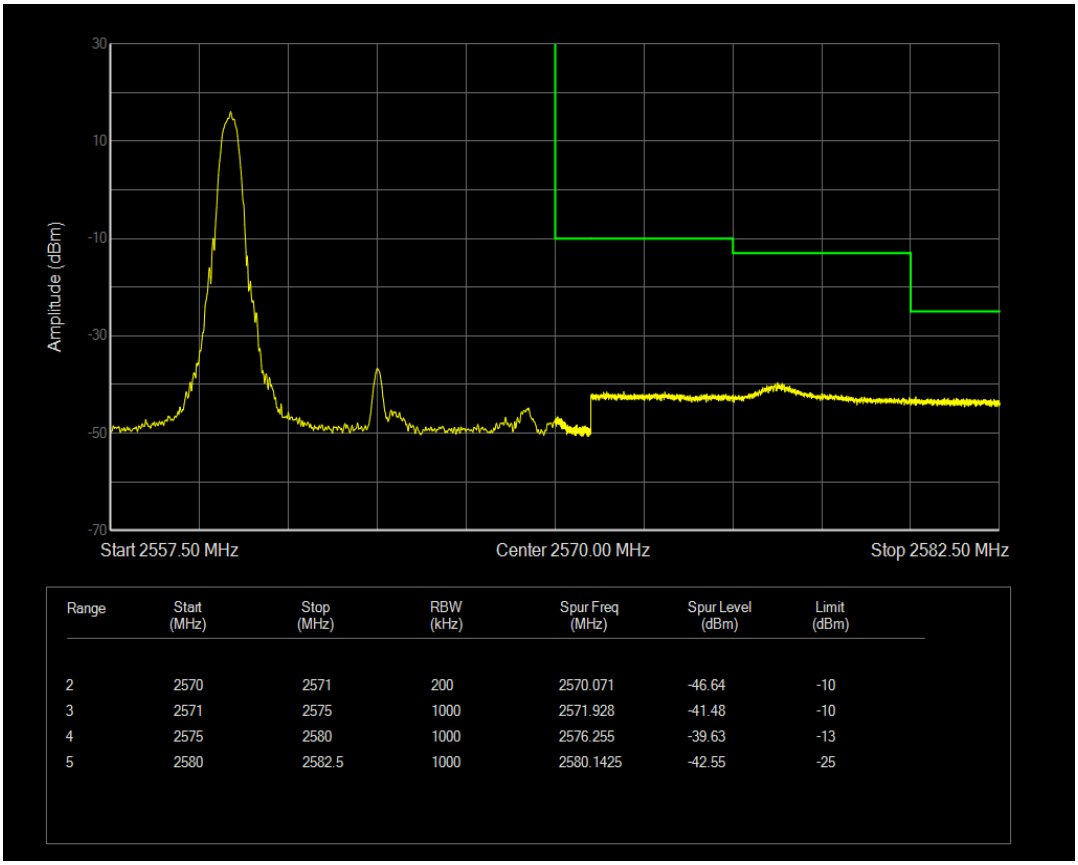
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2487.5	2490	1000	2489.445	-42.61	-25
2	2490	2496	1000	2493.846	-39.9	-13
3	2496	2499	1000	2498.982	-34.64	-10
4	2499	2500	200	2499.977	-38.46	-10

n7 SCS=30kHz CP_QPSK BW=10MHz Channel=501000 RB=24@0



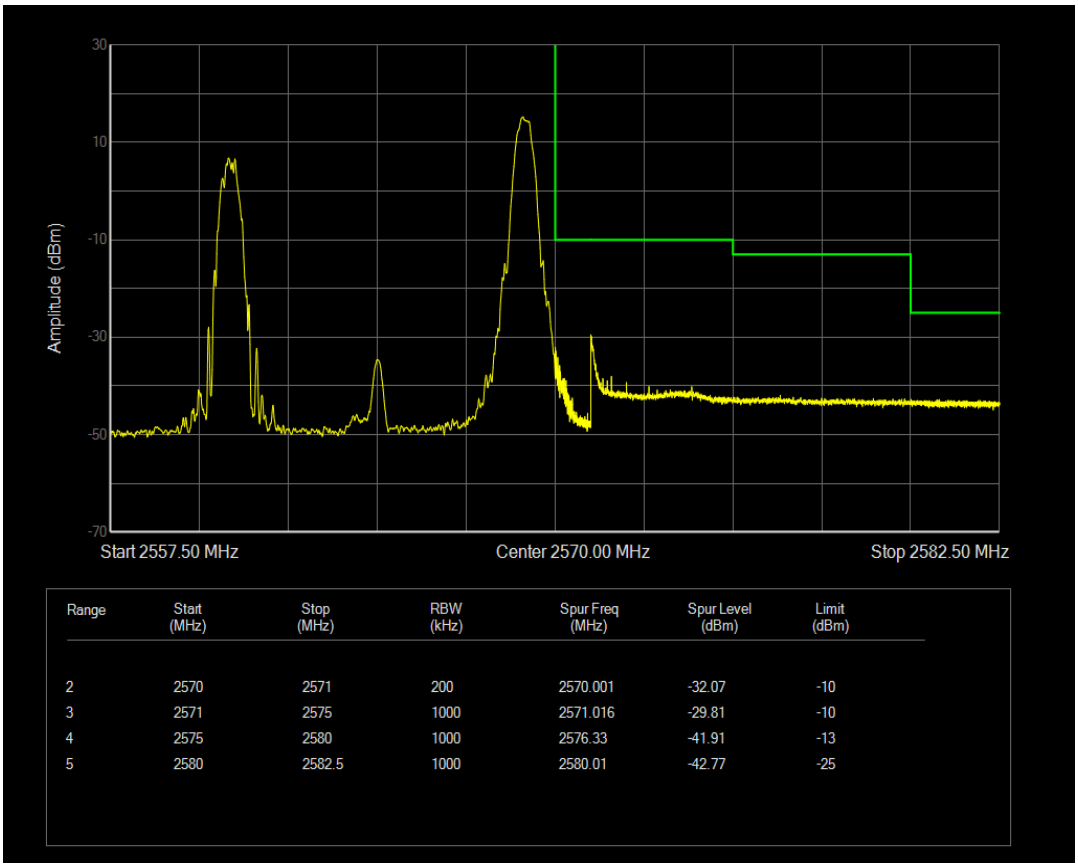
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2487.5	2490	1000	2489.985	-39.44	-25
2	2490	2496	1000	2495.436	-31.12	-13
3	2496	2499	1000	2498.907	-27.15	-10
4	2499	2500	200	2499.998	-33.94	-10

n7 SCS=30kHz CP_QPSK BW=10MHz Channel=513000 RB=1@0



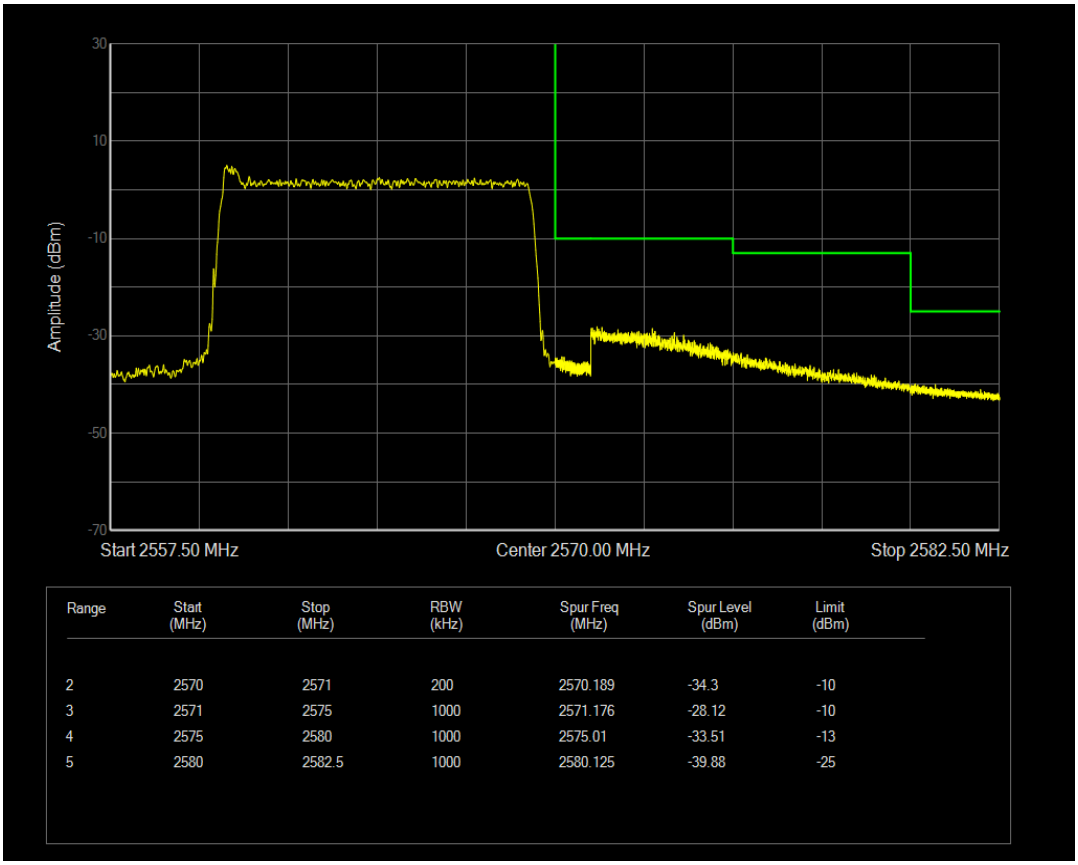
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	200	2570.071	-46.64	-10
3	2571	2575	1000	2571.928	-41.48	-10
4	2575	2580	1000	2576.255	-39.63	-13
5	2580	2582.5	1000	2580.1425	-42.55	-25

n7 SCS=30kHz CP_QPSK BW=10MHz Channel=513000 RB=1@23



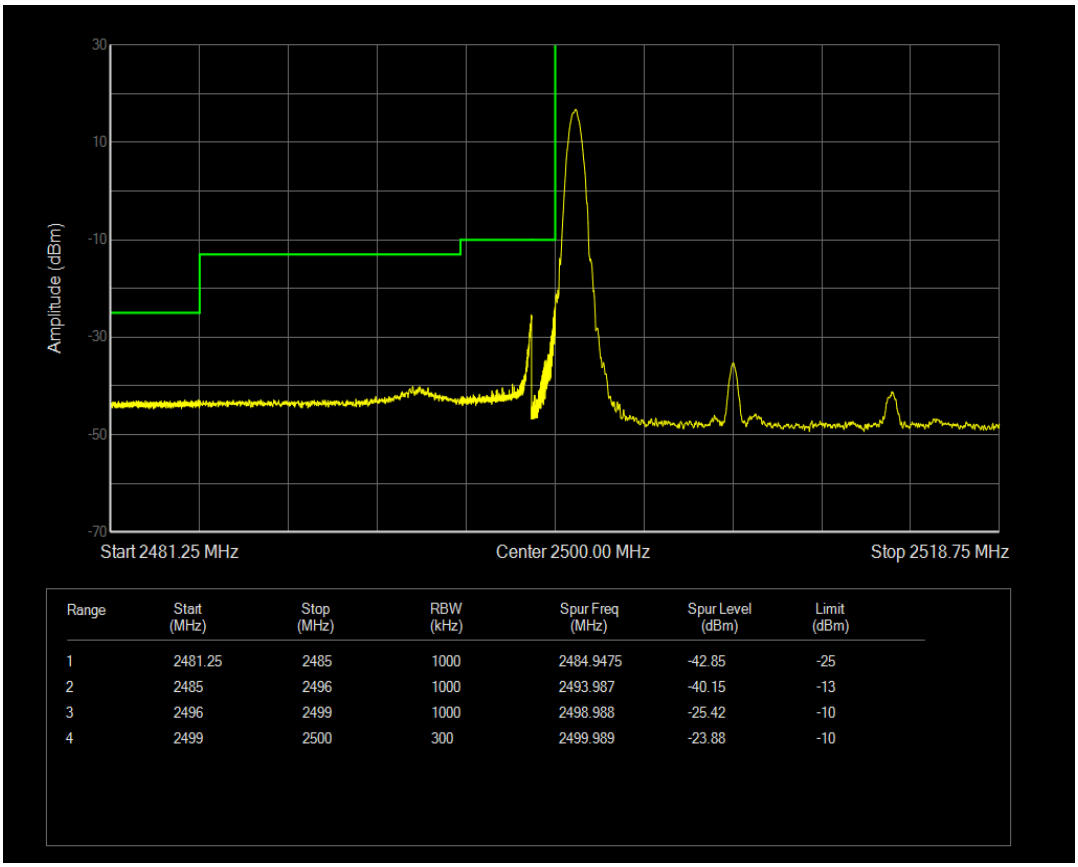
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	200	2570.001	-32.07	-10
3	2571	2575	1000	2571.016	-29.81	-10
4	2575	2580	1000	2576.33	-41.91	-13
5	2580	2582.5	1000	2580.01	-42.77	-25

n7 SCS=30kHz CP_QPSK BW=10MHz Channel=513000 RB=24@0



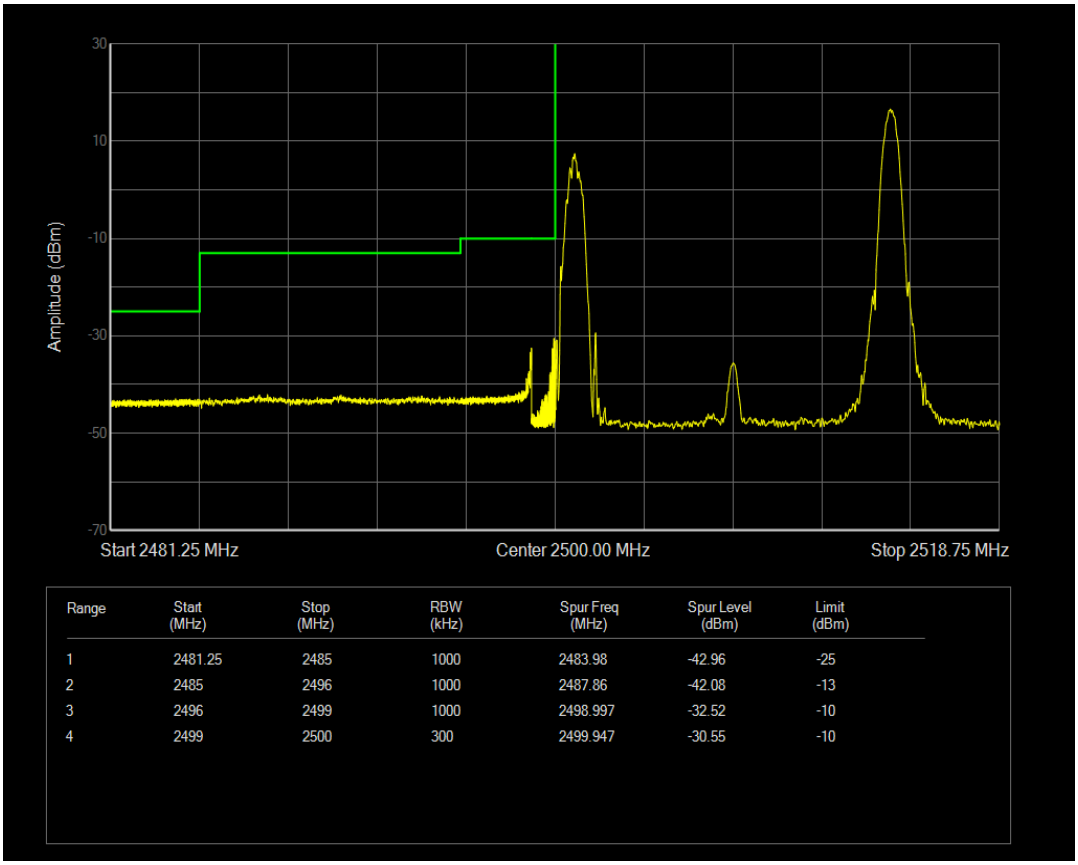
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	200	2570.189	-34.3	-10
3	2571	2575	1000	2571.176	-28.12	-10
4	2575	2580	1000	2575.01	-33.51	-13
5	2580	2582.5	1000	2580.125	-39.88	-25

n7 SCS=30kHz CP_QPSK BW=15MHz Channel=501500 RB=1@0



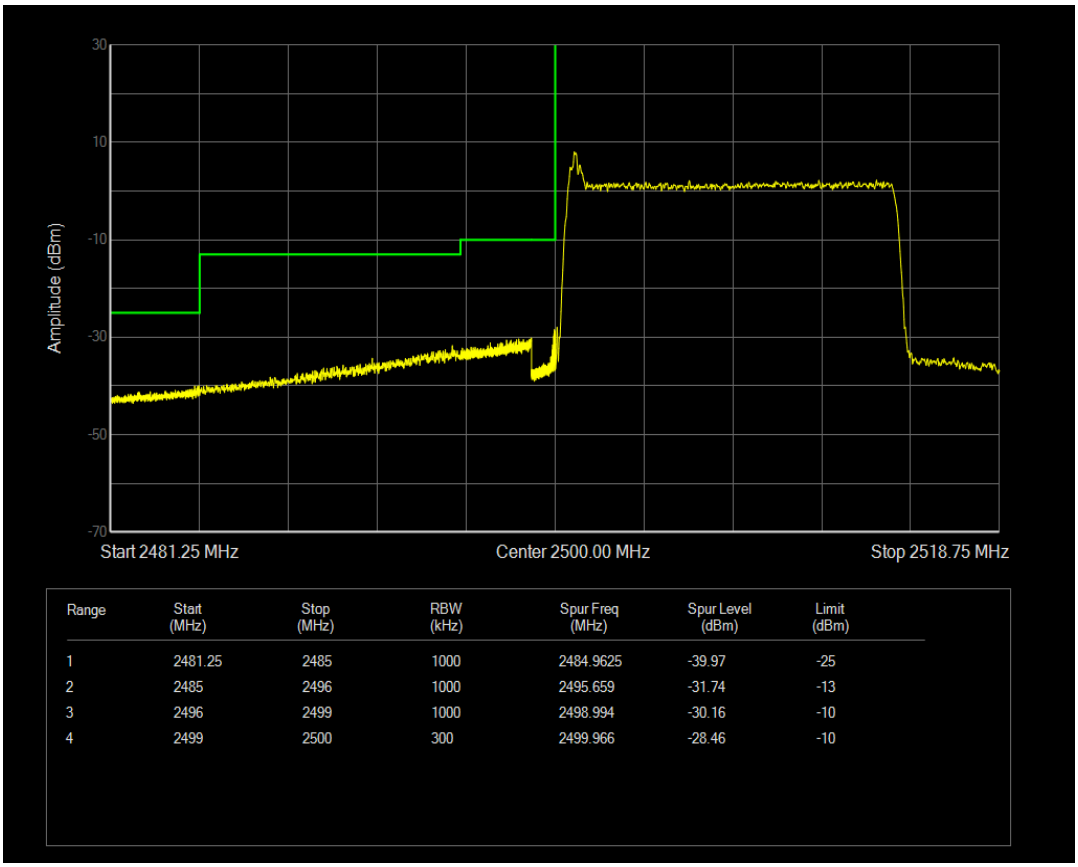
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2481.25	2485	1000	2484.9475	-42.85	-25
2	2485	2496	1000	2493.987	-40.15	-13
3	2496	2499	1000	2498.988	-25.42	-10
4	2499	2500	300	2499.989	-23.88	-10

n7 SCS=30kHz CP_QPSK BW=15MHz Channel=501500 RB=1@37



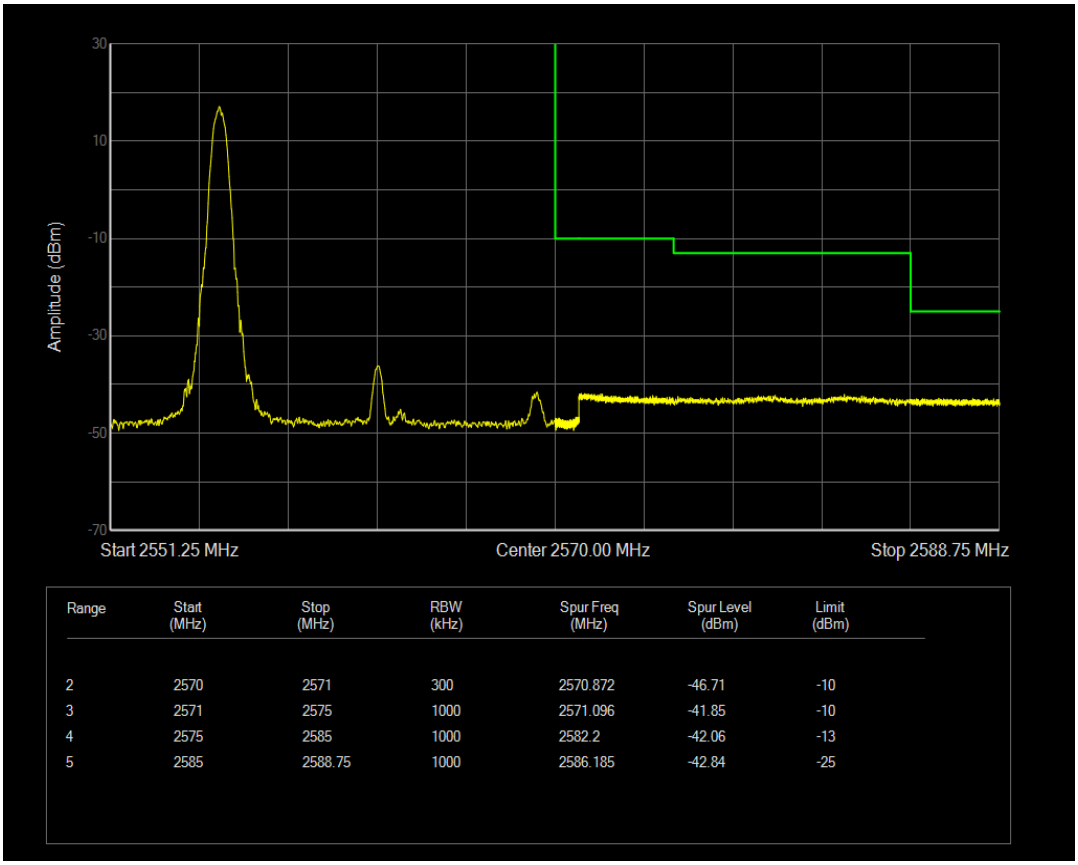
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2481.25	2485	1000	2483.98	-42.96	-25
2	2485	2496	1000	2487.86	-42.08	-13
3	2496	2499	1000	2498.997	-32.52	-10
4	2499	2500	300	2499.947	-30.55	-10

n7 SCS=30kHz CP_QPSK BW=15MHz Channel=501500 RB=38@0



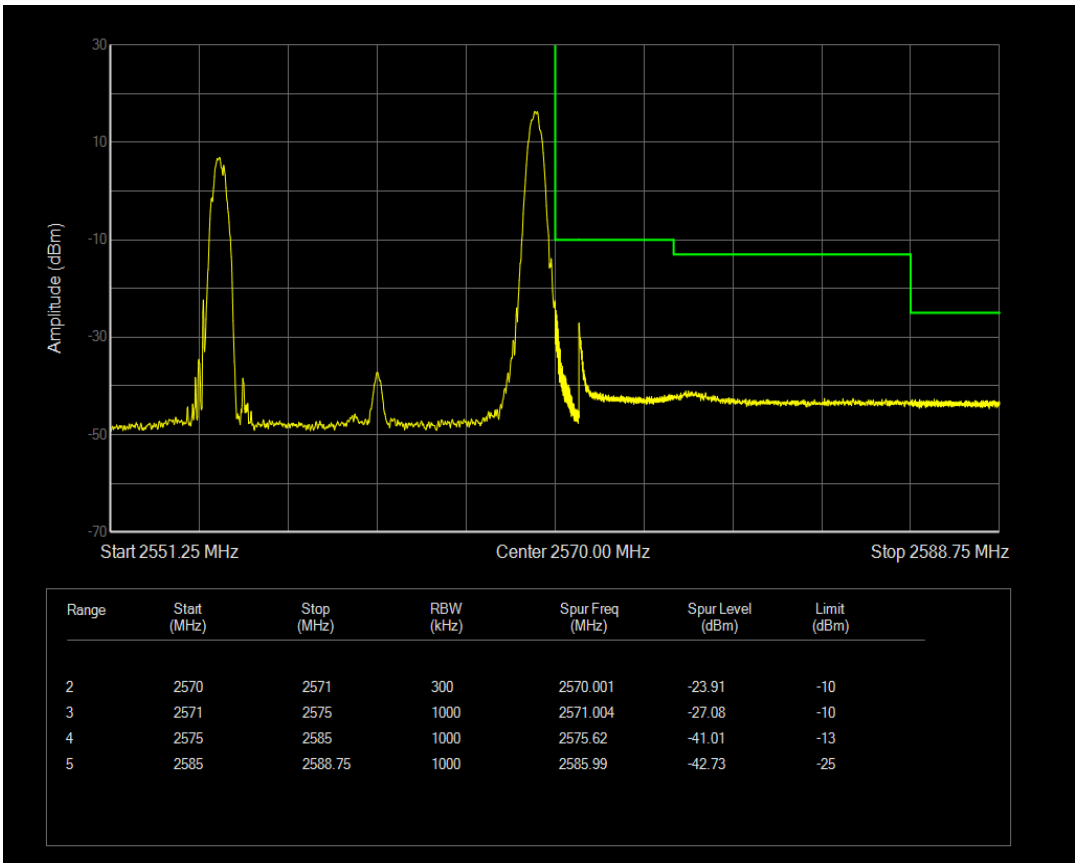
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2481.25	2485	1000	2484.9625	-39.97	-25
2	2485	2496	1000	2495.659	-31.74	-13
3	2496	2499	1000	2498.994	-30.16	-10
4	2499	2500	300	2499.966	-28.46	-10

n7 SCS=30kHz CP_QPSK BW=15MHz Channel=512500 RB=1@0



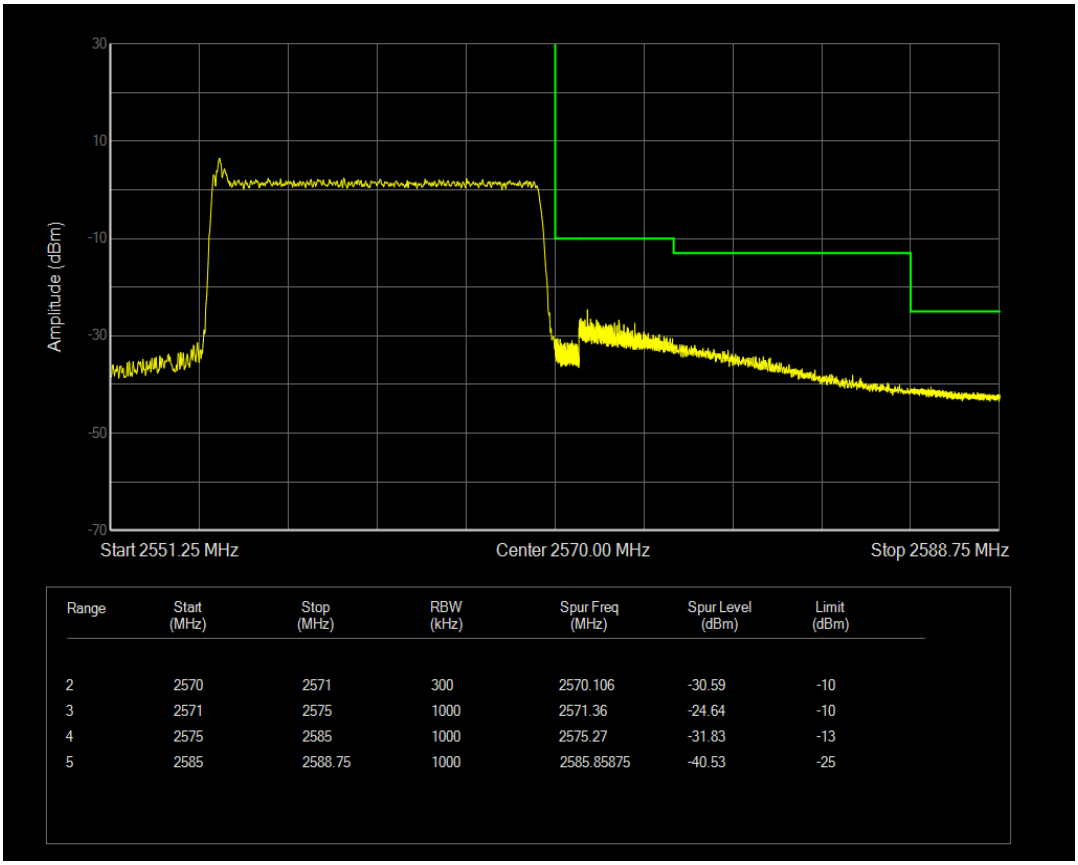
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	300	2570.872	-46.71	-10
3	2571	2575	1000	2571.096	-41.85	-10
4	2575	2585	1000	2582.2	-42.06	-13
5	2585	2588.75	1000	2586.185	-42.84	-25

n7 SCS=30kHz CP_QPSK BW=15MHz Channel=512500 RB=1@37



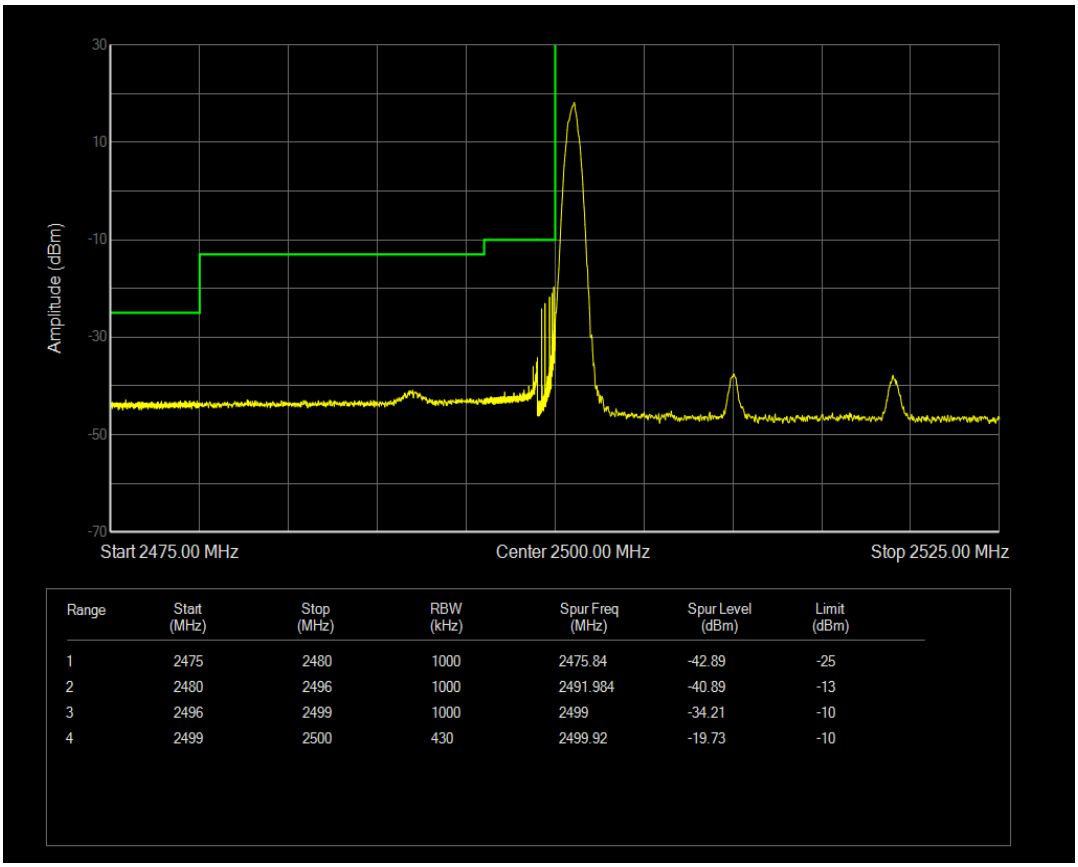
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	300	2570.001	-23.91	-10
3	2571	2575	1000	2571.004	-27.08	-10
4	2575	2585	1000	2575.62	-41.01	-13
5	2585	2588.75	1000	2585.99	-42.73	-25

n7 SCS=30kHz CP_QPSK BW=15MHz Channel=512500 RB=38@0



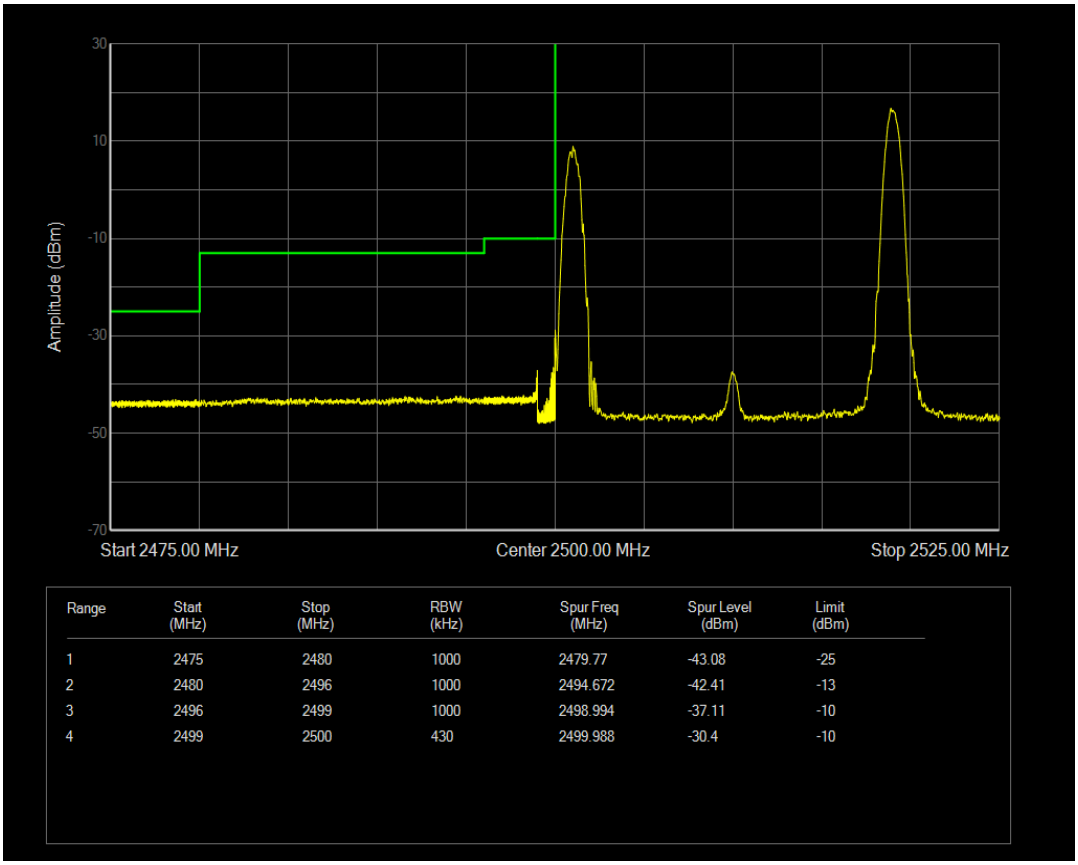
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	300	2570.106	-30.59	-10
3	2571	2575	1000	2571.36	-24.64	-10
4	2575	2585	1000	2575.27	-31.83	-13
5	2585	2588.75	1000	2585.85875	-40.53	-25

n7 SCS=30kHz CP_QPSK BW=20MHz Channel=502000 RB=1@0



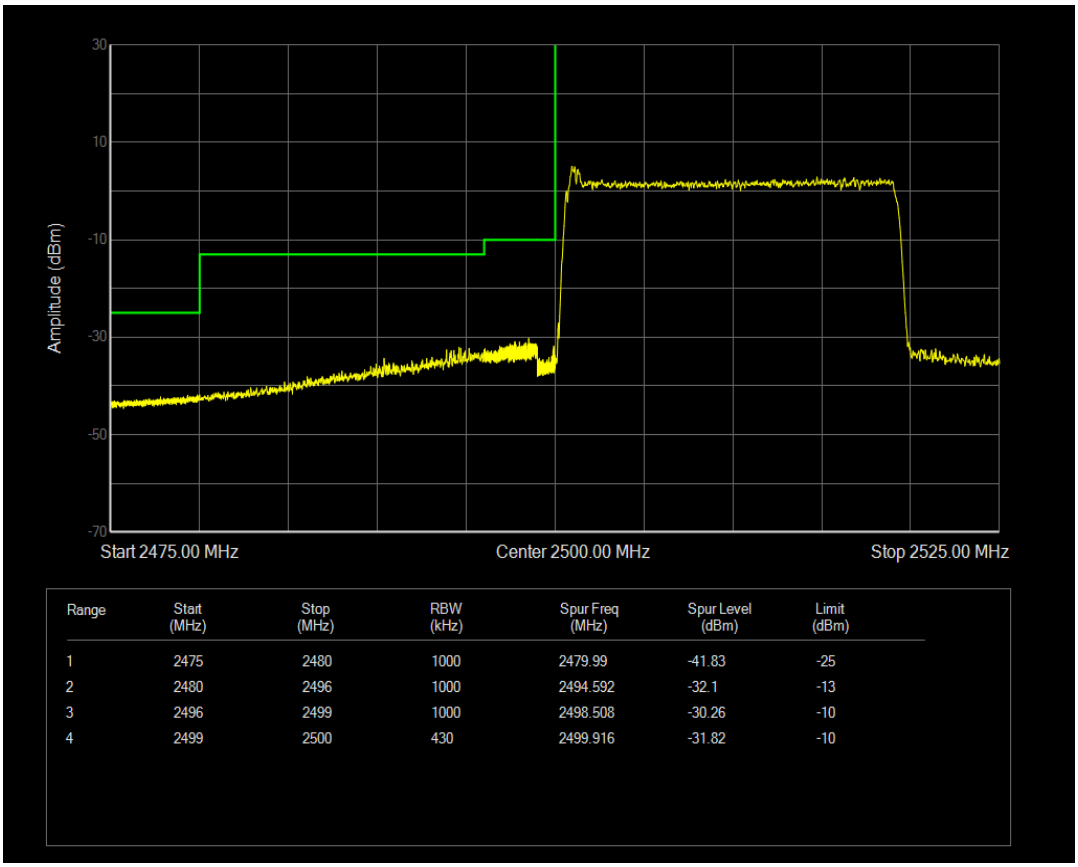
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2475	2480	1000	2475.84	-42.89	-25
2	2480	2496	1000	2491.984	-40.89	-13
3	2496	2499	1000	2499	-34.21	-10
4	2499	2500	430	2499.92	-19.73	-10

n7 SCS=30kHz CP_QPSK BW=20MHz Channel=502000 RB=1@50



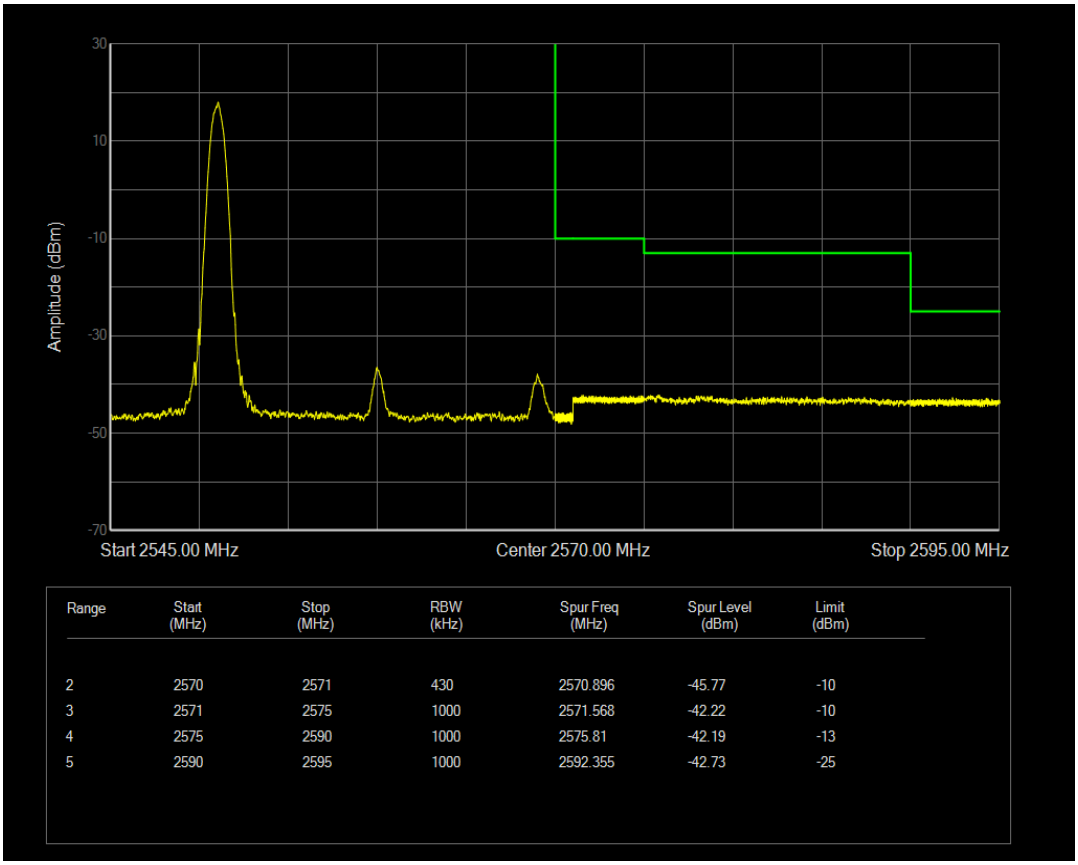
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2475	2480	1000	2479.77	-43.08	-25
2	2480	2496	1000	2494.672	-42.41	-13
3	2496	2499	1000	2498.994	-37.11	-10
4	2499	2500	430	2499.988	-30.4	-10

n7 SCS=30kHz CP_QPSK BW=20MHz Channel=502000 RB=51@0



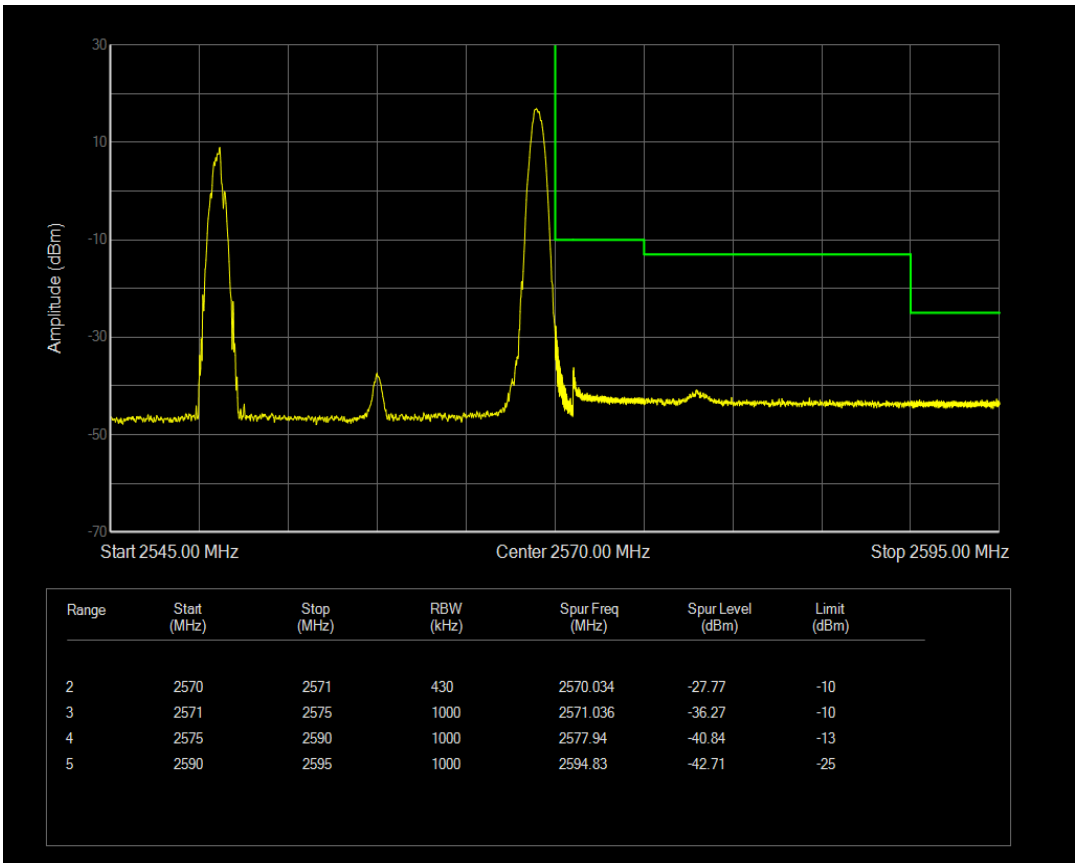
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2475	2480	1000	2479.99	-41.83	-25
2	2480	2496	1000	2494.592	-32.1	-13
3	2496	2499	1000	2498.508	-30.26	-10
4	2499	2500	430	2499.916	-31.82	-10

n7 SCS=30kHz CP_QPSK BW=20MHz Channel=512000 RB=1@0



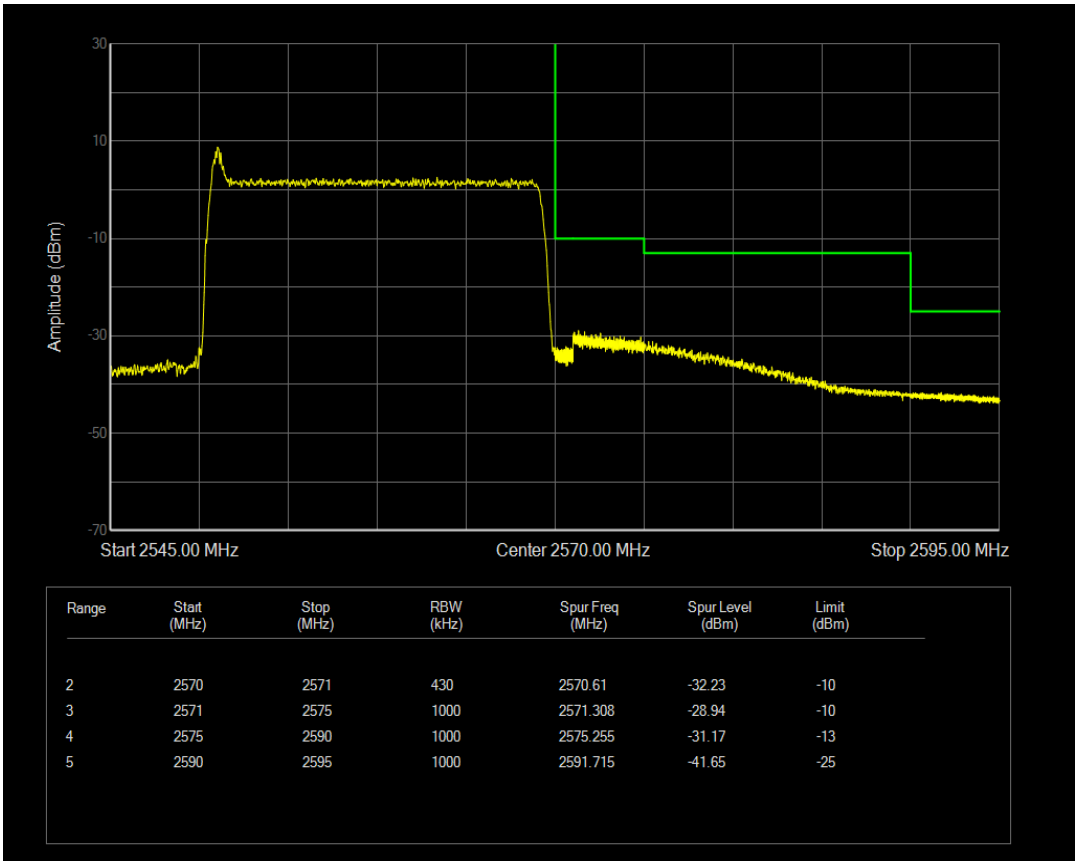
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	430	2570.896	-45.77	-10
3	2571	2575	1000	2571.568	-42.22	-10
4	2575	2590	1000	2575.81	-42.19	-13
5	2590	2595	1000	2592.355	-42.73	-25

n7 SCS=30kHz CP_QPSK BW=20MHz Channel=512000 RB=1@50



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	430	2570.034	-27.77	-10
3	2571	2575	1000	2571.036	-36.27	-10
4	2575	2590	1000	2577.94	-40.84	-13
5	2590	2595	1000	2594.83	-42.71	-25

n7 SCS=30kHz CP_QPSK BW=20MHz Channel=512000 RB=51@0

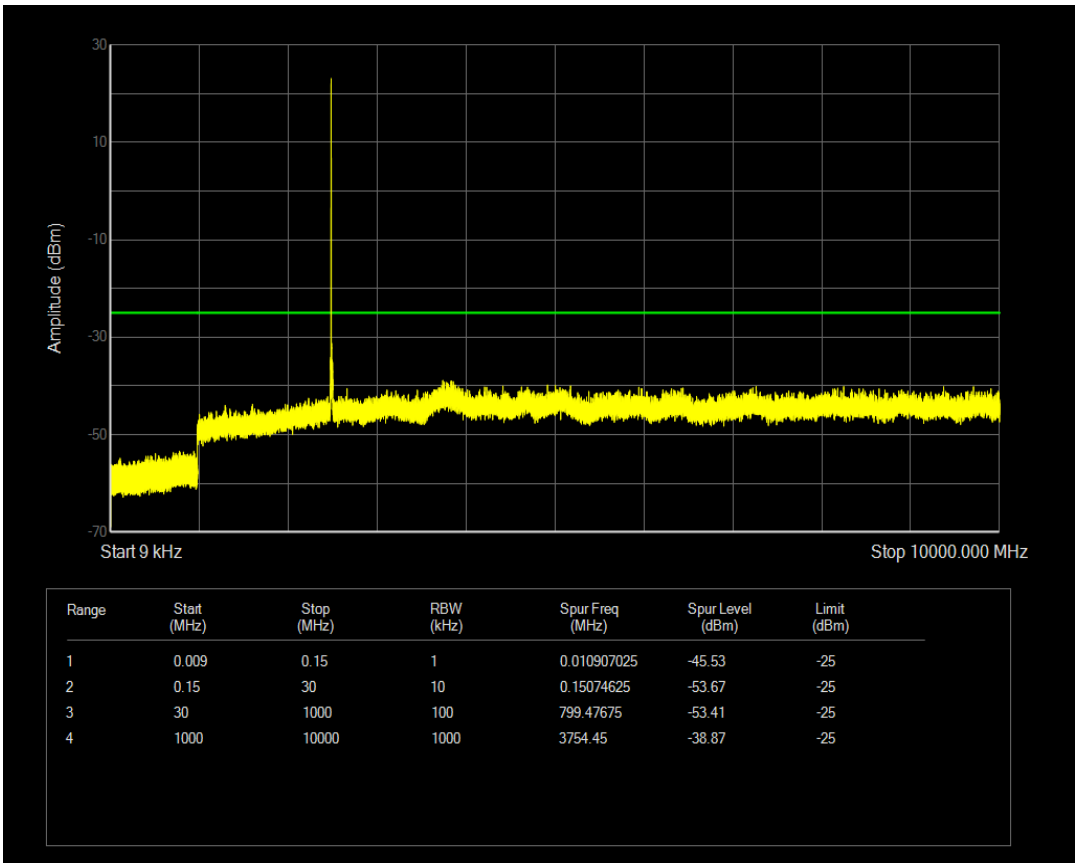


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2570	2571	430	2570.61	-32.23	-10
3	2571	2575	1000	2571.308	-28.94	-10
4	2575	2590	1000	2575.255	-31.17	-13
5	2590	2595	1000	2591.715	-41.65	-25

6 Out-of-band emissions for NR FR1

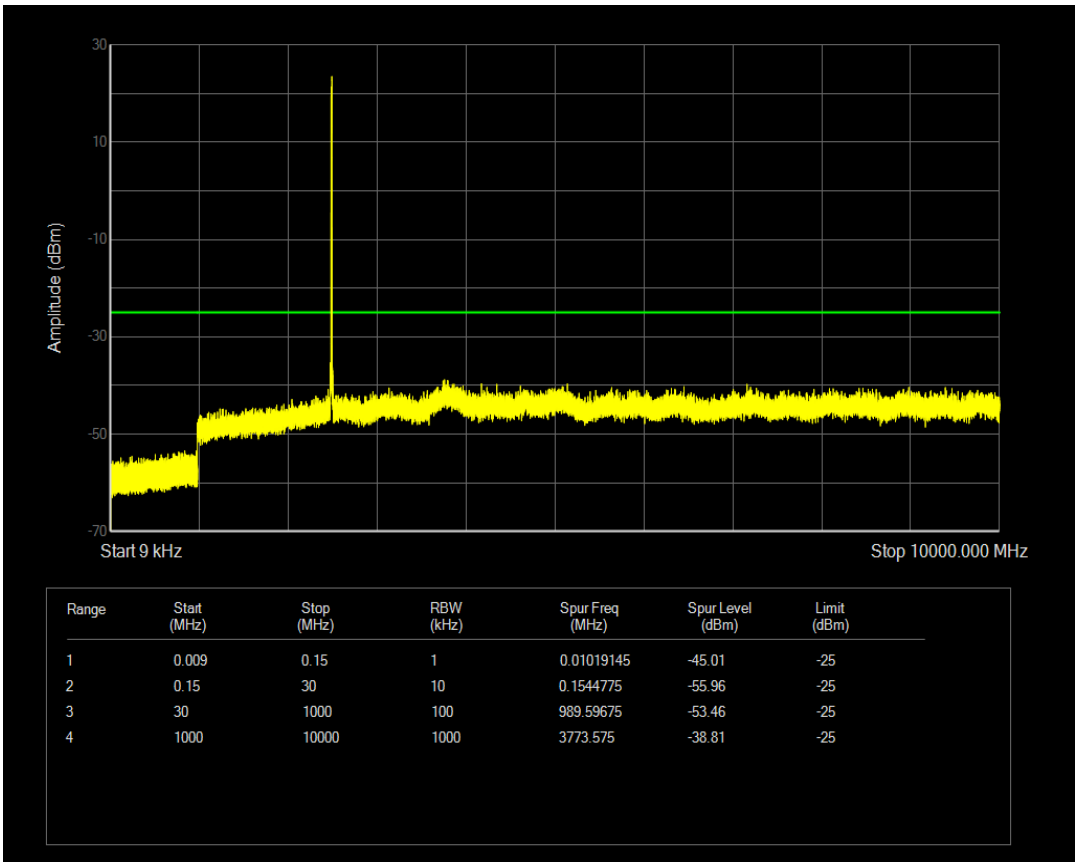
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n7	30	10	501000	24@0	CP_QPSK	3790.00	-37.80	-25	PASS
n7	30	10	501000	1@0	CP_QPSK	3754.45	-38.87	-25	PASS
n7	30	10	501000	1@23	CP_QPSK	3773.58	-38.81	-25	PASS
n7	30	10	513000	24@0	CP_QPSK	3725.88	-38.51	-25	PASS
n7	30	10	513000	1@0	CP_QPSK	3869.20	-38.35	-25	PASS
n7	30	10	513000	1@23	CP_QPSK	3775.60	-39.25	-25	PASS
n7	30	15	501500	38@0	CP_QPSK	3866.50	-39.62	-25	PASS
n7	30	15	501500	1@0	CP_QPSK	3848.95	-38.89	-25	PASS
n7	30	15	501500	1@37	CP_QPSK	3790.23	-38.47	-25	PASS
n7	30	15	512500	38@0	CP_QPSK	3843.10	-38.23	-25	PASS
n7	30	15	512500	1@0	CP_QPSK	3752.20	-39.02	-25	PASS
n7	30	15	512500	1@37	CP_QPSK	3978.33	-38.26	-25	PASS
n7	30	20	502000	51@0	CP_QPSK	3823.30	-38.22	-25	PASS
n7	30	20	502000	1@0	CP_QPSK	3765.48	-38.87	-25	PASS
n7	30	20	502000	1@50	CP_QPSK	4474.23	-39.06	-25	PASS
n7	30	20	512000	51@0	CP_QPSK	3731.50	-39.19	-25	PASS
n7	30	20	512000	1@0	CP_QPSK	3872.58	-38.65	-25	PASS
n7	30	20	512000	1@50	CP_QPSK	3798.10	-38.64	-25	PASS

n7 SCS=30kHz CP_QPSK BW=10MHz Channel=501000 RB=1@0



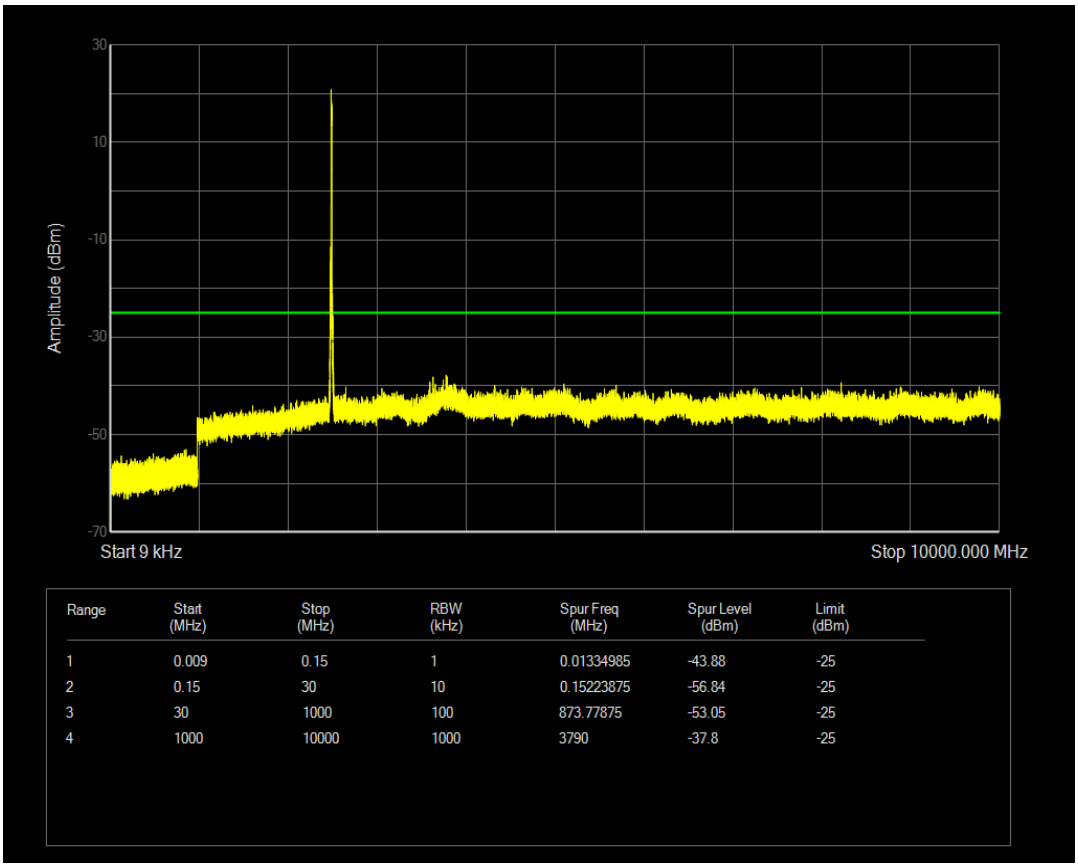
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010907025	-45.53	-25
2	0.15	30	10	0.15074625	-53.67	-25
3	30	1000	100	799.47675	-53.41	-25
4	1000	10000	1000	3754.45	-38.87	-25

n7 SCS=30kHz CP_QPSK BW=10MHz Channel=501000 RB=1@23



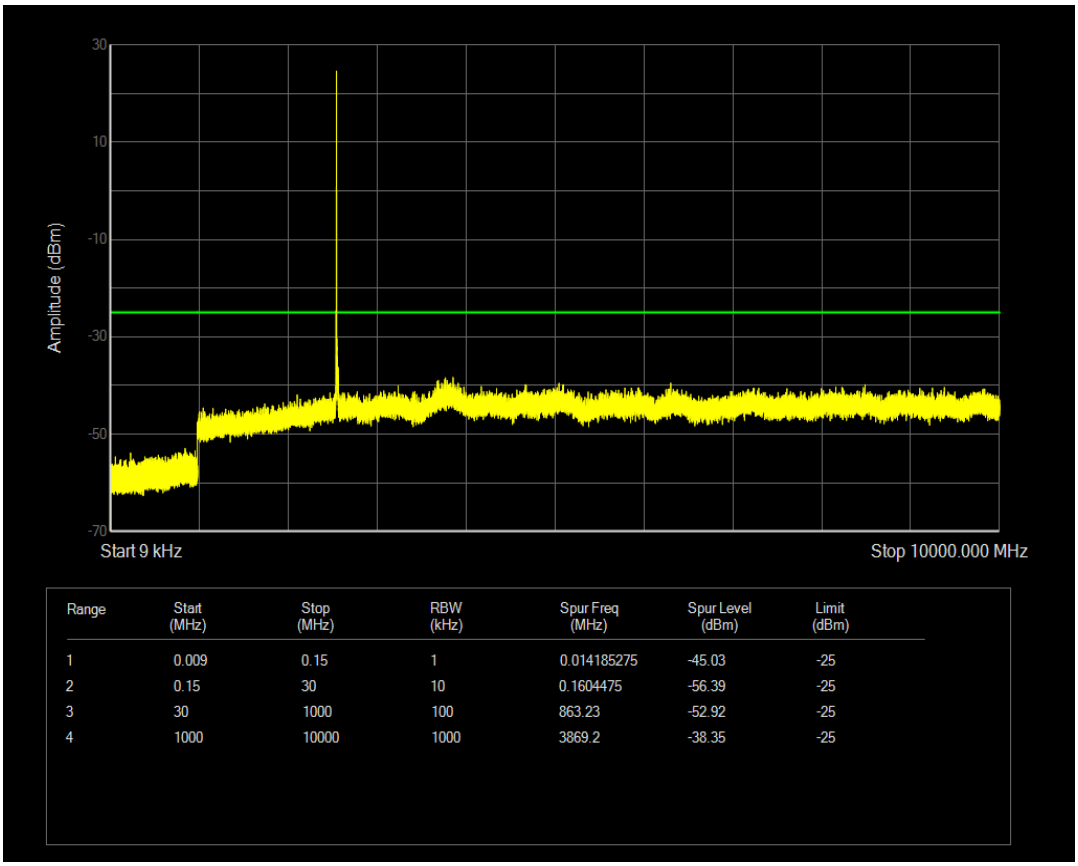
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01019145	-45.01	-25
2	0.15	30	10	0.1544775	-55.96	-25
3	30	1000	100	989.59675	-53.46	-25
4	1000	10000	1000	3773.575	-38.81	-25

n7 SCS=30kHz CP_QPSK BW=10MHz Channel=501000 RB=24@0



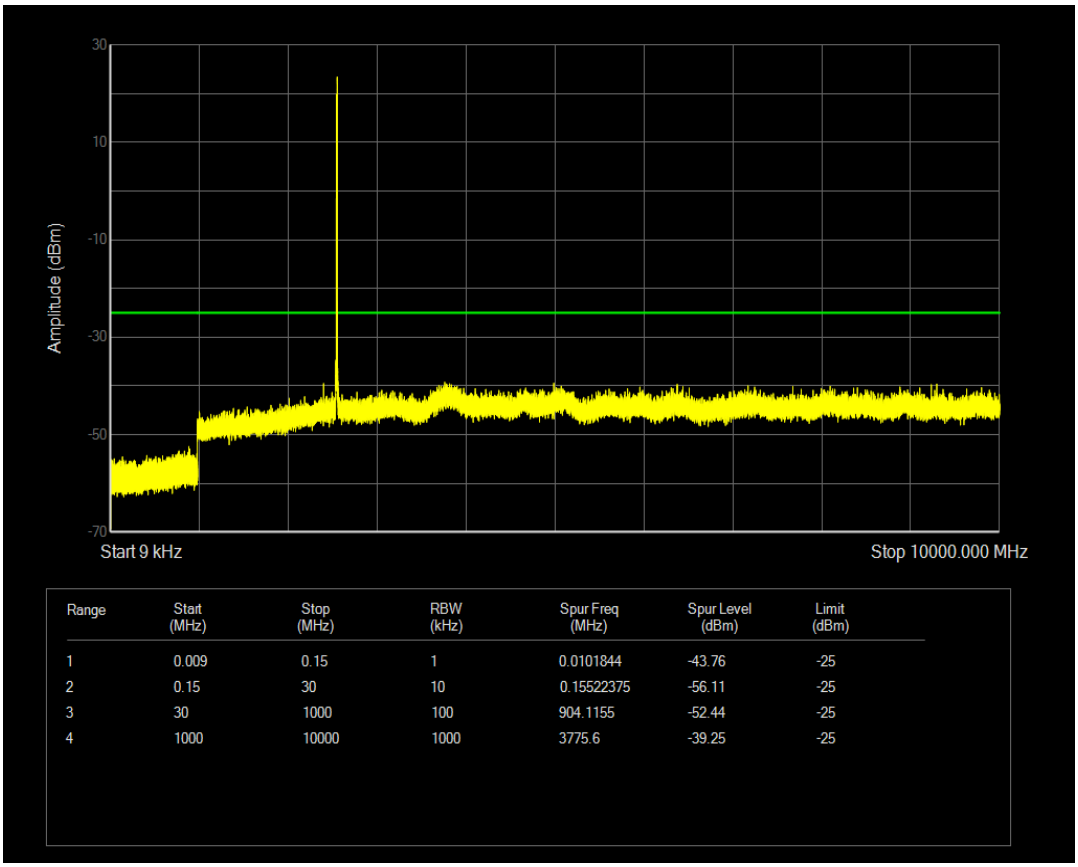
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01334985	-43.88	-25
2	0.15	30	10	0.15223875	-56.84	-25
3	30	1000	100	873.77875	-53.05	-25
4	1000	10000	1000	3790	-37.8	-25

n7 SCS=30kHz CP_QPSK BW=10MHz Channel=513000 RB=1@0



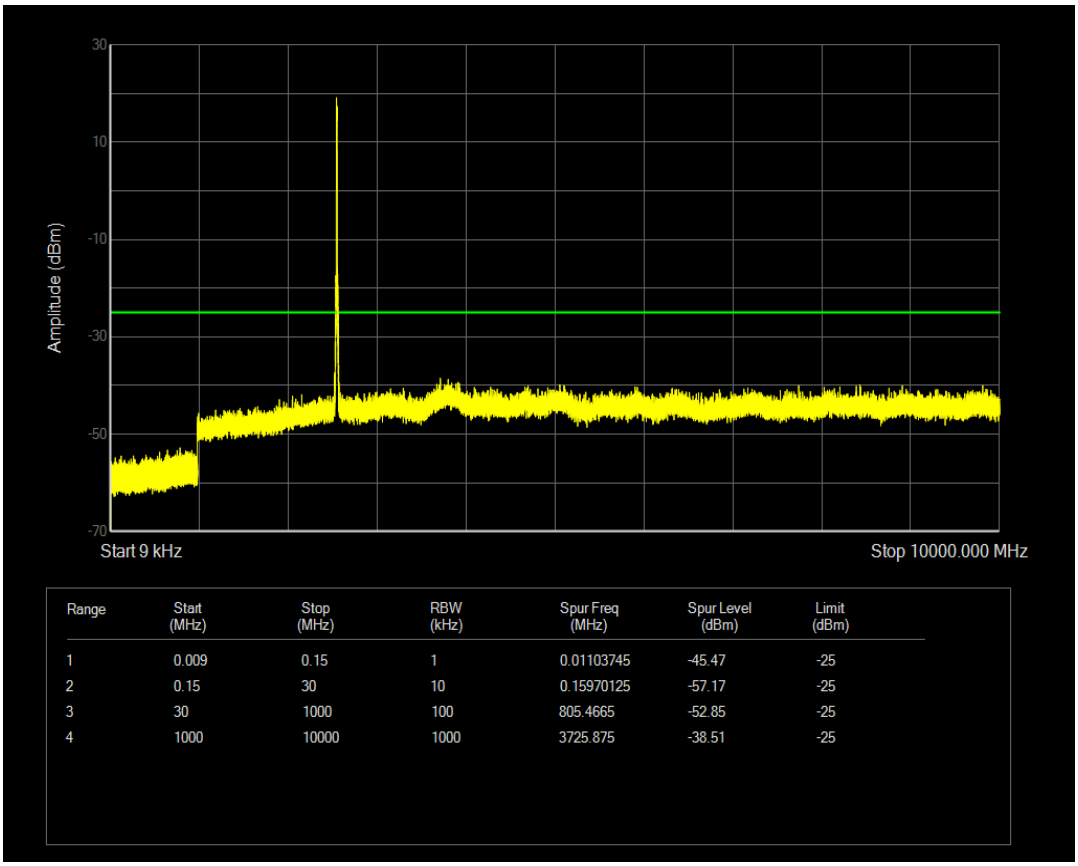
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.014185275	-45.03	-25
2	0.15	30	10	0.1604475	-56.39	-25
3	30	1000	100	863.23	-52.92	-25
4	1000	10000	1000	3869.2	-38.35	-25

n7 SCS=30kHz CP_QPSK BW=10MHz Channel=513000 RB=1@23



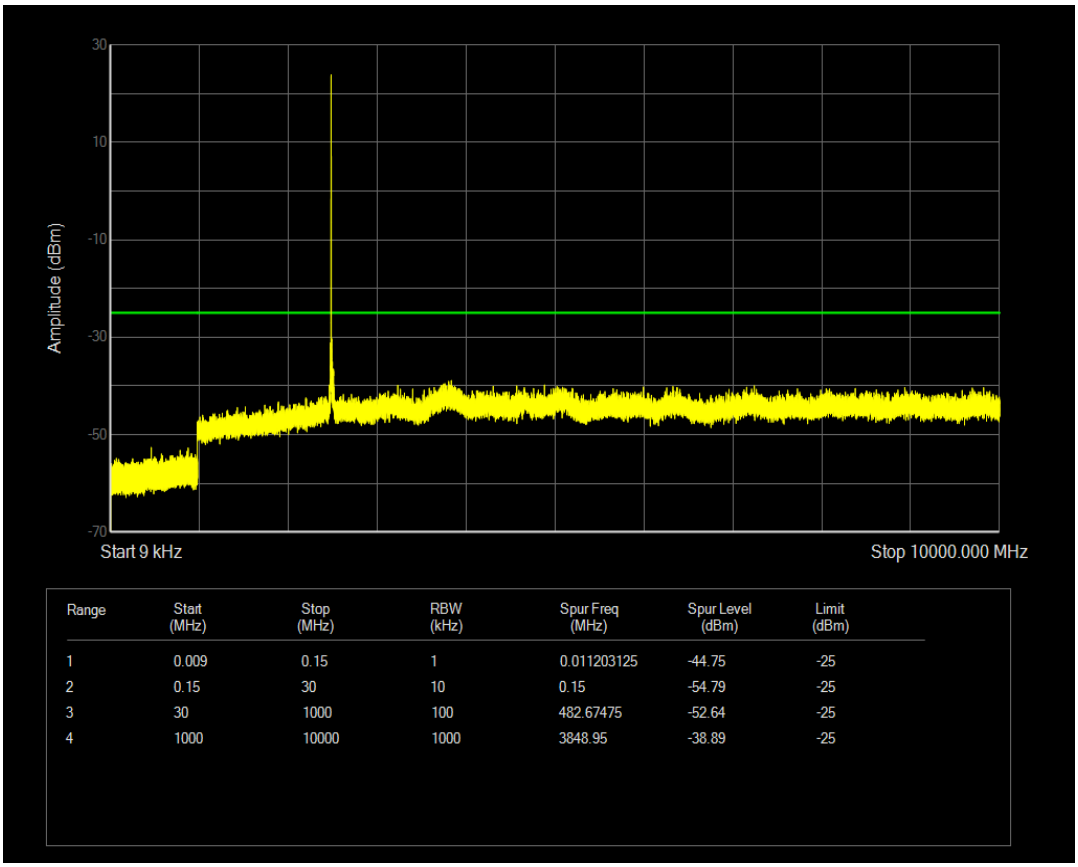
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0101844	-43.76	-25
2	0.15	30	10	0.15522375	-56.11	-25
3	30	1000	100	904.1155	-52.44	-25
4	1000	10000	1000	3775.6	-39.25	-25

n7 SCS=30kHz CP_QPSK BW=10MHz Channel=513000 RB=24@0



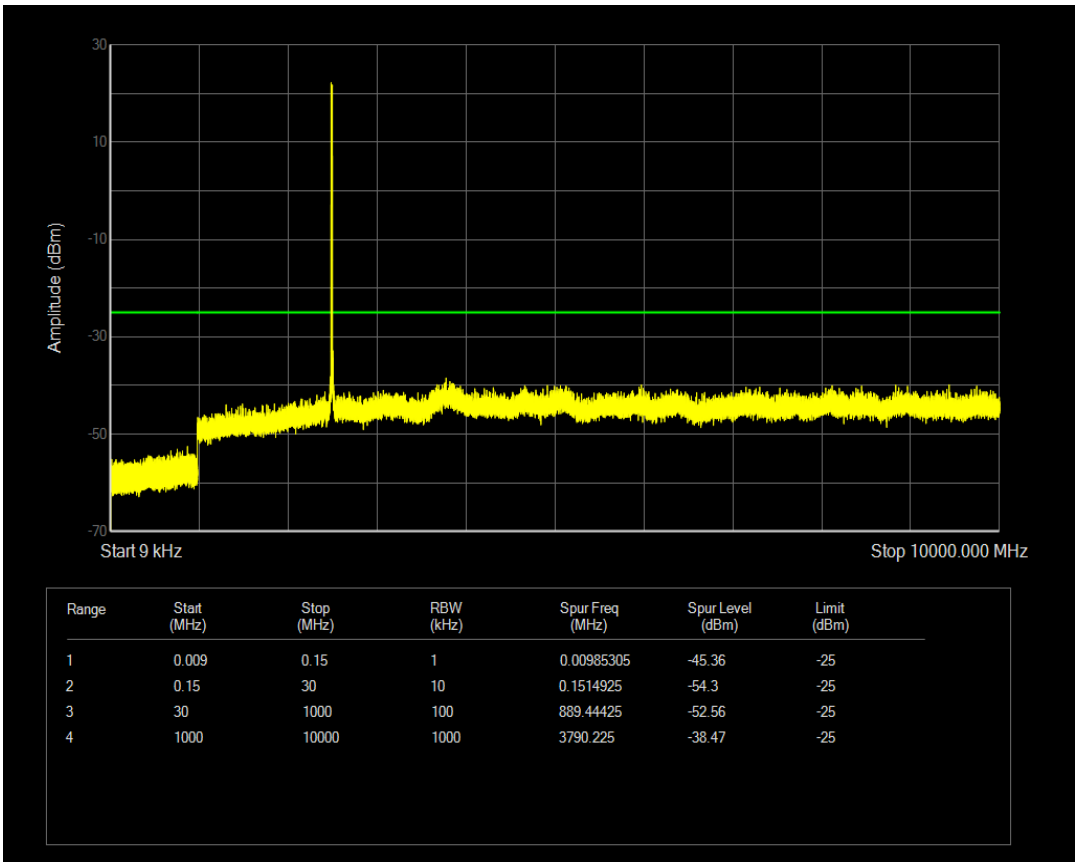
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01103745	-45.47	-25
2	0.15	30	10	0.15970125	-57.17	-25
3	30	1000	100	805.4665	-52.85	-25
4	1000	10000	1000	3725.875	-38.51	-25

n7 SCS=30kHz CP_QPSK BW=15MHz Channel=501500 RB=1@0



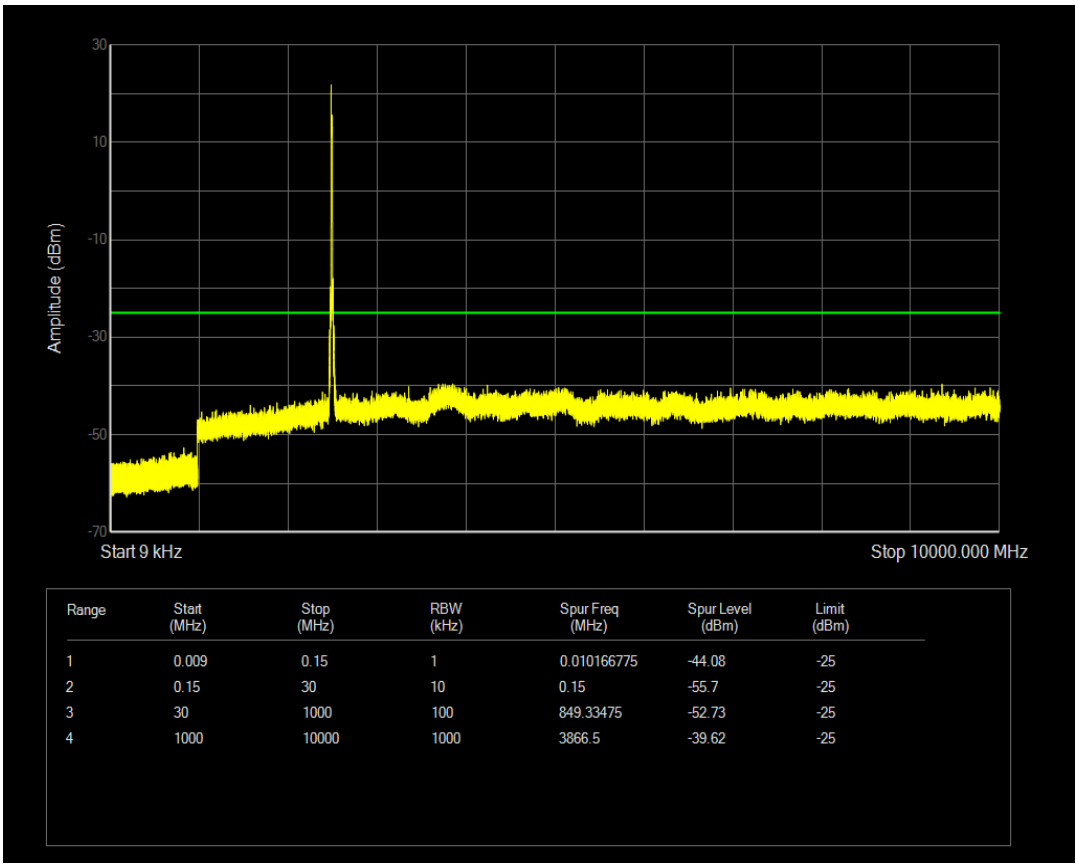
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.011203125	-44.75	-25
2	0.15	30	10	0.15	-54.79	-25
3	30	1000	100	482.67475	-52.64	-25
4	1000	10000	1000	3848.95	-38.89	-25

n7 SCS=30kHz CP_QPSK BW=15MHz Channel=501500 RB=1@37



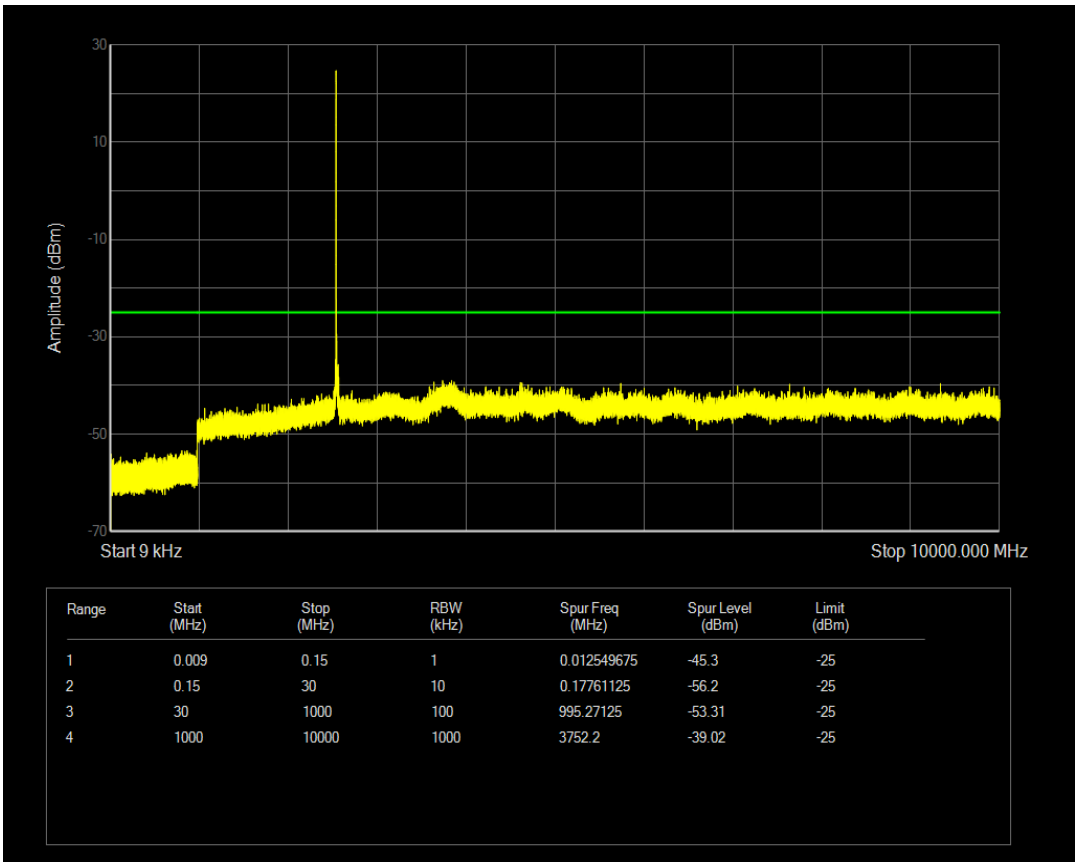
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00985305	-45.36	-25
2	0.15	30	10	0.1514925	-54.3	-25
3	30	1000	100	889.44425	-52.56	-25
4	1000	10000	1000	3790.225	-38.47	-25

n7 SCS=30kHz CP_QPSK BW=15MHz Channel=501500 RB=38@0



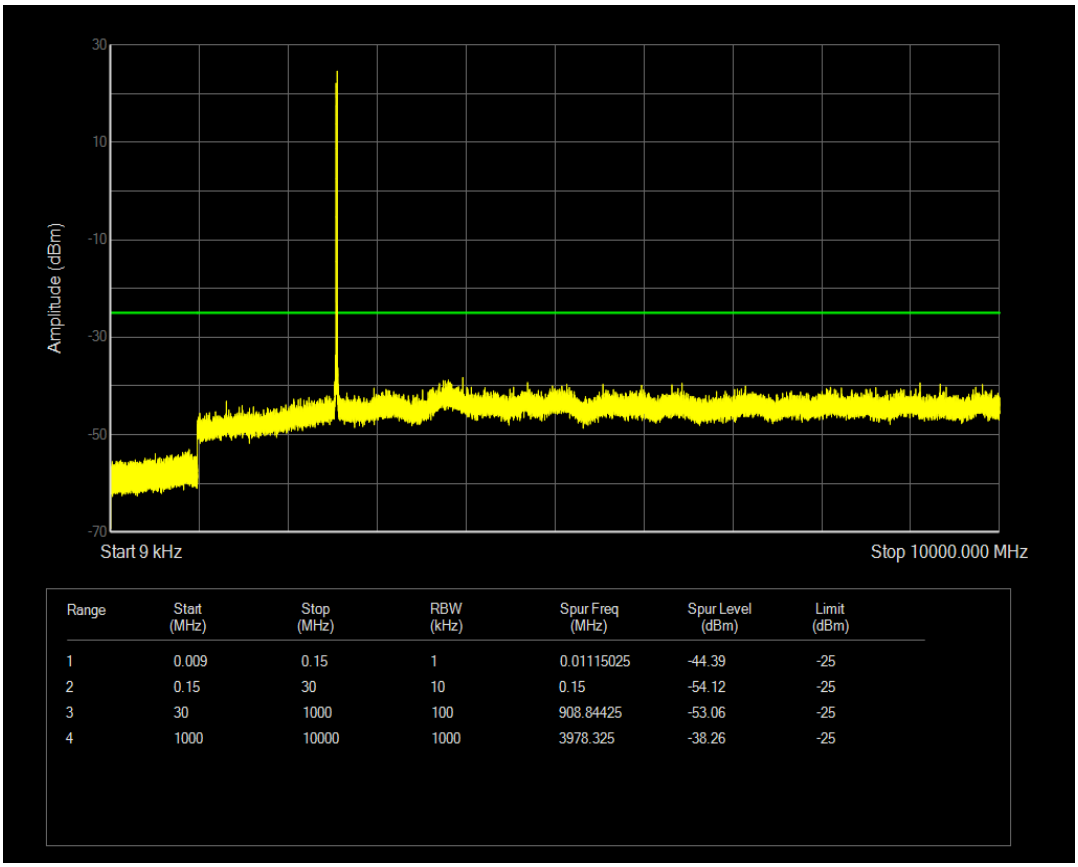
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010166775	-44.08	-25
2	0.15	30	10	0.15	-55.7	-25
3	30	1000	100	849.33475	-52.73	-25
4	1000	10000	1000	3866.5	-39.62	-25

n7 SCS=30kHz CP_QPSK BW=15MHz Channel=512500 RB=1@0



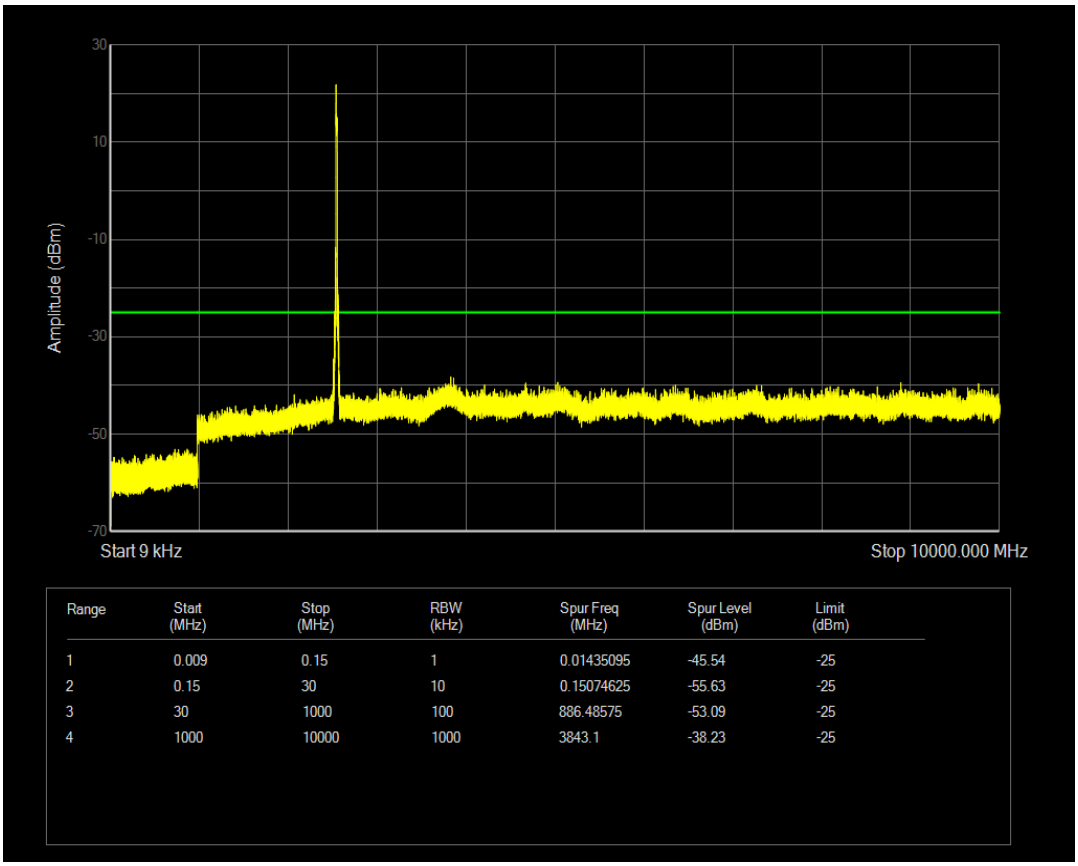
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.012549675	-45.3	-25
2	0.15	30	10	0.17761125	-56.2	-25
3	30	1000	100	995.27125	-53.31	-25
4	1000	10000	1000	3752.2	-39.02	-25

n7 SCS=30kHz CP_QPSK BW=15MHz Channel=512500 RB=1@37



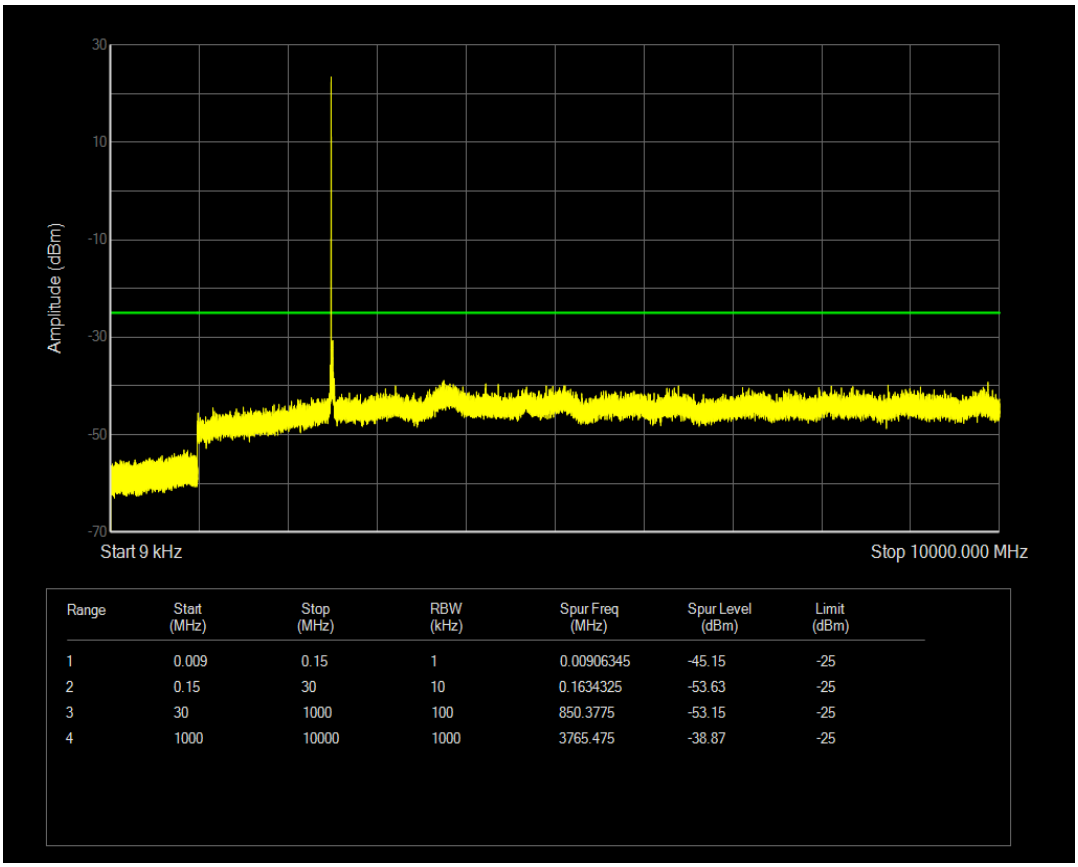
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01115025	-44.39	-25
2	0.15	30	10	0.15	-54.12	-25
3	30	1000	100	908.84425	-53.06	-25
4	1000	10000	1000	3978.325	-38.26	-25

n7 SCS=30kHz CP_QPSK BW=15MHz Channel=512500 RB=38@0



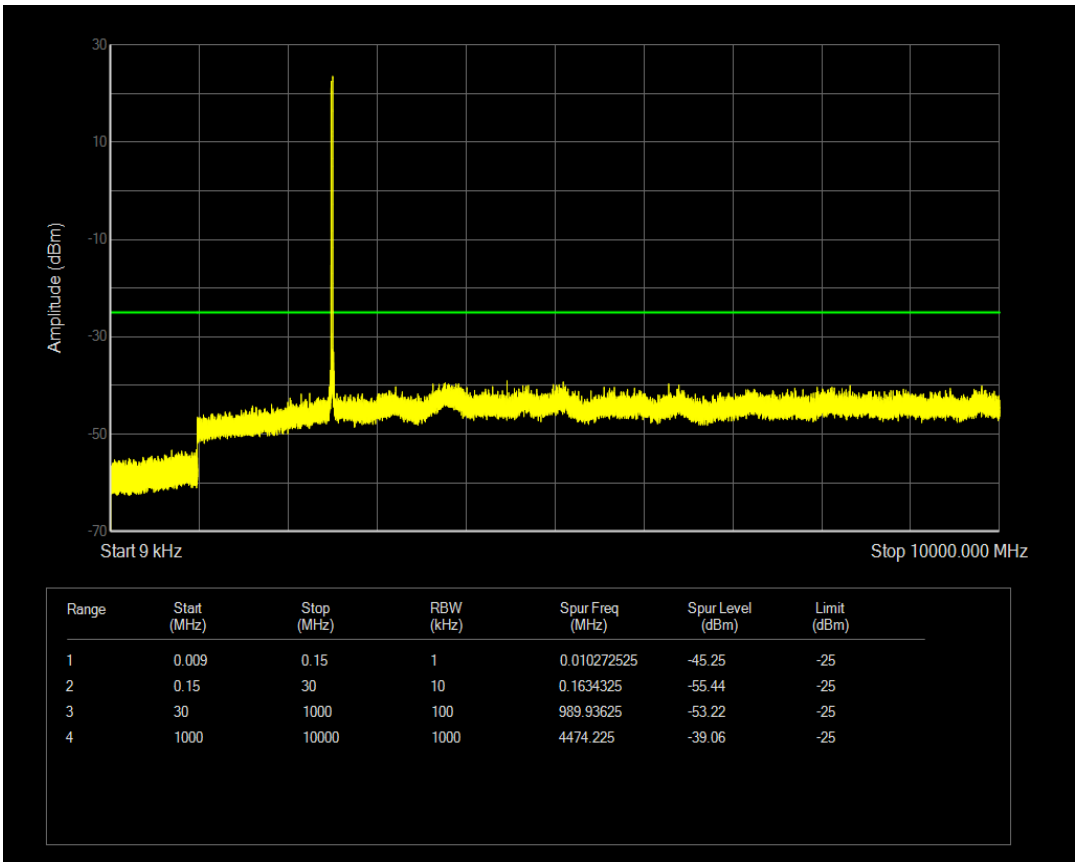
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.01435095	-45.54	-25
2	0.15	30	10	0.15074625	-55.63	-25
3	30	1000	100	886.48575	-53.09	-25
4	1000	10000	1000	3843.1	-38.23	-25

n7 SCS=30kHz CP_QPSK BW=20MHz Channel=502000 RB=1@0



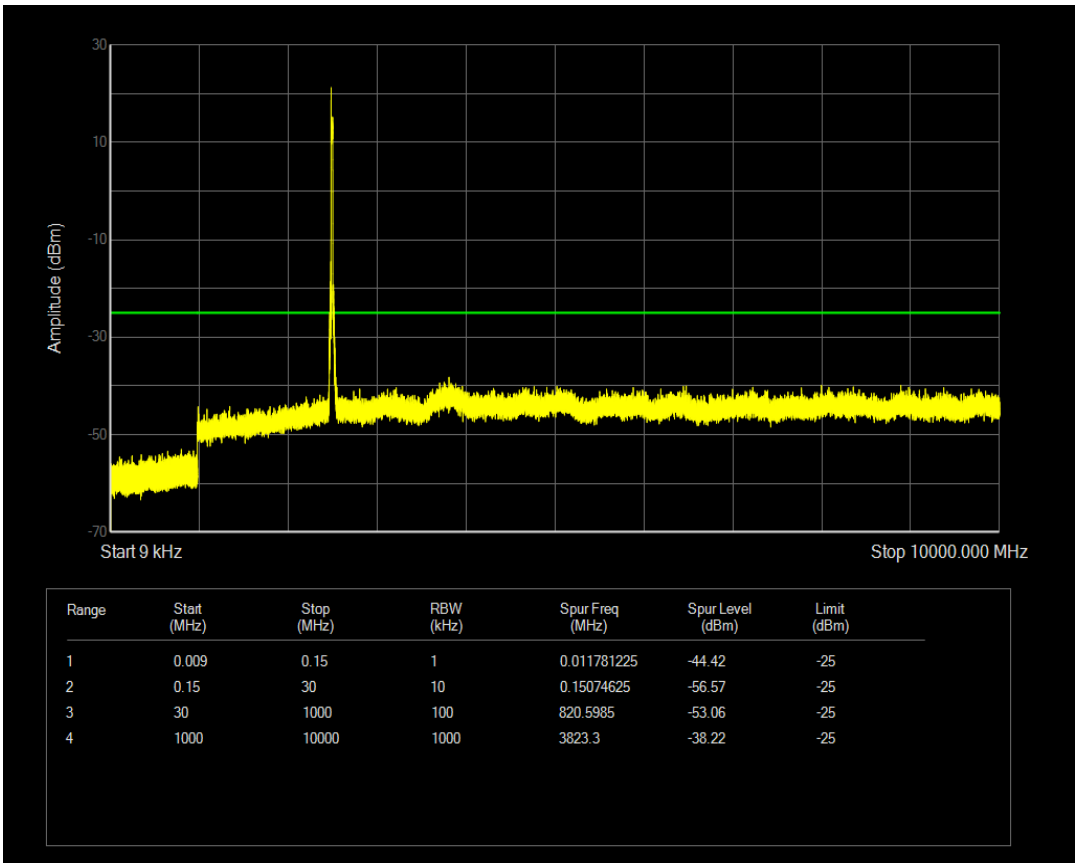
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.00906345	-45.15	-25
2	0.15	30	10	0.1634325	-53.63	-25
3	30	1000	100	850.3775	-53.15	-25
4	1000	10000	1000	3765.475	-38.87	-25

n7 SCS=30kHz CP_QPSK BW=20MHz Channel=502000 RB=1@50



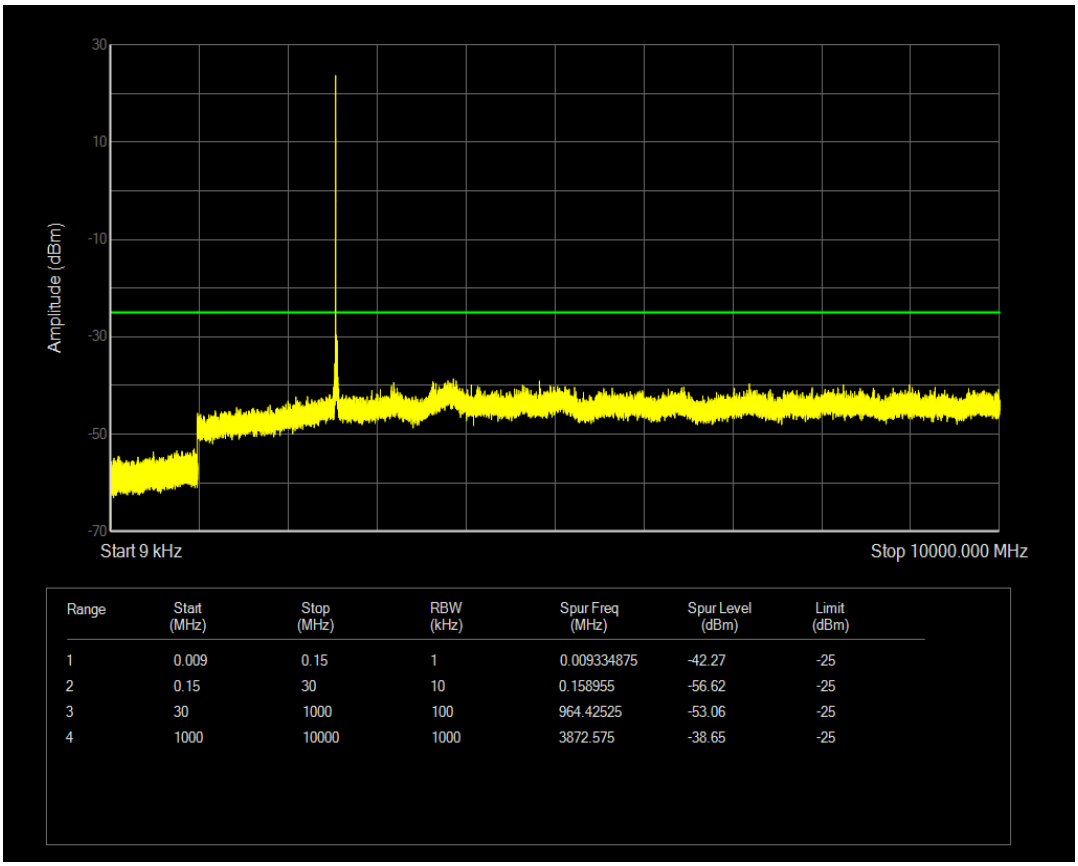
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.010272525	-45.25	-25
2	0.15	30	10	0.1634325	-55.44	-25
3	30	1000	100	989.93625	-53.22	-25
4	1000	10000	1000	4474.225	-39.06	-25

n7 SCS=30kHz CP_QPSK BW=20MHz Channel=502000 RB=51@0



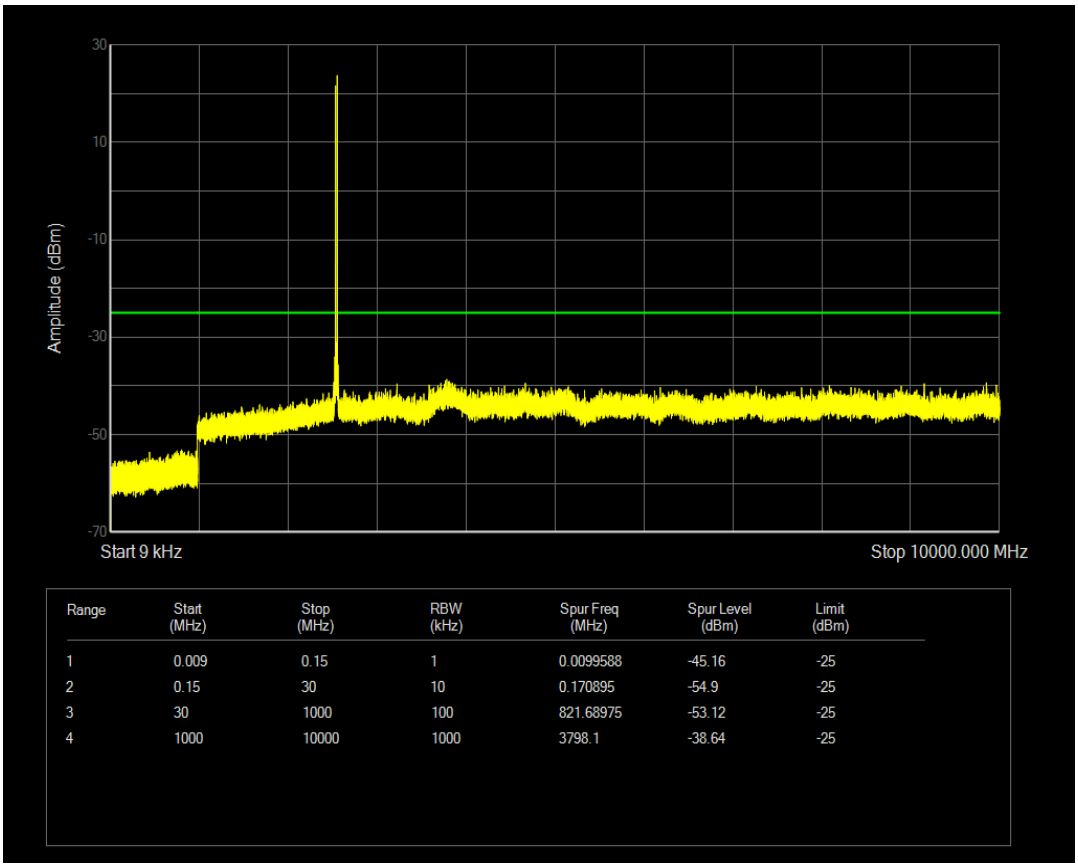
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.011781225	-44.42	-25
2	0.15	30	10	0.15074625	-56.57	-25
3	30	1000	100	820.5985	-53.06	-25
4	1000	10000	1000	3823.3	-38.22	-25

n7 SCS=30kHz CP_QPSK BW=20MHz Channel=512000 RB=1@0



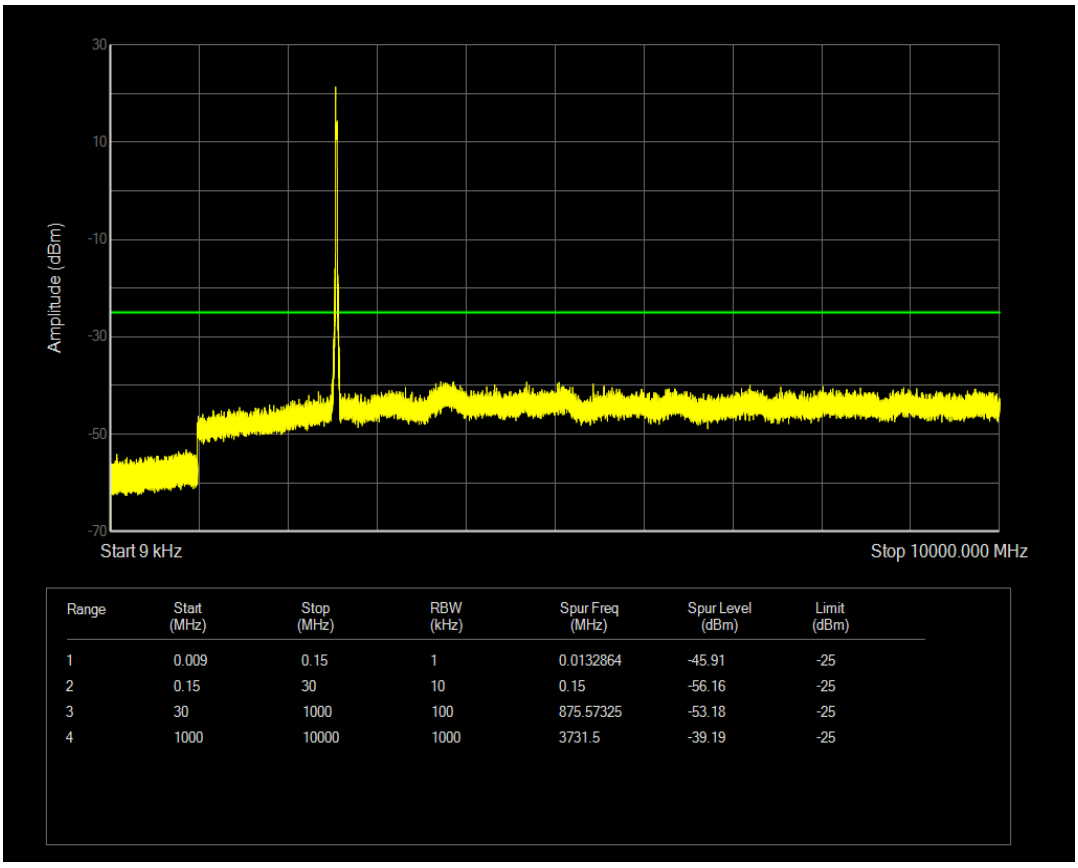
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.009334875	-42.27	-25
2	0.15	30	10	0.158955	-56.62	-25
3	30	1000	100	964.42525	-53.06	-25
4	1000	10000	1000	3872.575	-38.65	-25

n7 SCS=30kHz CP_QPSK BW=20MHz Channel=512000 RB=1@50



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0099588	-45.16	-25
2	0.15	30	10	0.170895	-54.9	-25
3	30	1000	100	821.68975	-53.12	-25
4	1000	10000	1000	3798.1	-38.64	-25

n7 SCS=30kHz CP_QPSK BW=20MHz Channel=512000 RB=51@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0132864	-45.91	-25
2	0.15	30	10	0.15	-56.16	-25
3	30	1000	100	875.57325	-53.18	-25
4	1000	10000	1000	3731.5	-39.19	-25