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1 Conducted output power for EN-DC

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)	Low Limit (dBm)	high Limit (dBm)	Verdict
Band5	30	5	20425	1@0	QPSK	20.86			
n38	30	10	515000	1@0	DFT_BPSK	19.01			
Sum	30					23.04	19	26	PASS
Band5	30	5	20525	8@0	QPSK	21.02			
n38	30	10	519000	12@6	DFT_BPSK	18.83			
Sum	30					23.07	19	26	PASS
Band5	30	5	20525	8@0	QPSK	21.03			
n38	30	10	519000	12@6	DFT_QPSK	18.94			
Sum	30					23.11	19	26	PASS
Band5	30	5	20625	1@17	QPSK	20.63			
n38	30	10	523000	1@23	DFT_BPSK	18.73			
Sum	30					22.79	19	26	PASS
Band5	30	5	20625	8@17	QPSK	20.73			
n38	30	10	523000	12@6	DFT_BPSK	18.94			
Sum	30					22.93	19	26	PASS
Band5	30	5	20625	1@17	QPSK	20.64			
n38	30	10	523000	1@23	DFT_QPSK	18.79			
Sum	30					22.82	19	26	PASS
Band5	30	5	20625	8@17	QPSK	20.43			
n38	30	10	523000	12@6	DFT_QPSK	18.94			
Sum	30					22.94	19	26	PASS
Band5	30	10	20450	1@0	QPSK	20.76			
n38	30	20	516000	1@0	DFT_BPSK	18.92			
Sum	30					22.94	19	26	PASS
Band5	30	10	20525	12@0	QPSK	21.04			
n38	30	20	519000	25@12	DFT_BPSK	18.89			
Sum	30					23.10	19	26	PASS
Band5	30	10	20525	12@0	QPSK	21.04			
n38	30	20	519000	25@12	DFT_QPSK	18.88			
Sum	30					23.10	19	26	PASS
Band5	30	10	20600	1@38	QPSK	20.83			
n38	30	20	522000	1@50	DFT_BPSK	18.65			
Sum	30					22.88	19	26	PASS
Band5	30	10	20600	12@38	QPSK	20.69			
n38	30	20	522000	25@12	DFT_BPSK	19.04			
Sum	30					22.95	19	26	PASS
Band5	30	10	20600	1@38	QPSK	20.84			
n38	30	20	522000	1@50	DFT_QPSK	18.77			
Sum	30					22.93	19	26	PASS

Band5	30	10	20600	12@38	QPSK	17.69			
n38	30	20	522000	25@12	DFT_QPSK	19.00			
Sum	30					21.40	19	26	PASS

2 Frequency stability for EN-DC

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Result(Hz)	Result (ppm)	Low Limit (ppm)	high Limit (ppm)	Verdict
n38	30	10	515000	12@6	DFT_BPSK	-10.71	-0.00416	-2.5	2.5	PASS
n38	30	10	515000	1@1	DFT_BPSK	-10.02	-0.00389	-2.5	2.5	PASS
n38	30	10	515000	1@22	DFT_BPSK	-7.34	-0.00285	-2.5	2.5	PASS
n38	30	10	515000	12@6	DFT_QPSK	-7.54	-0.00293	-2.5	2.5	PASS
n38	30	10	515000	1@1	DFT_QPSK	-7.78	-0.00302	-2.5	2.5	PASS
n38	30	10	515000	1@22	DFT_QPSK	-4.49	-0.00174	-2.5	2.5	PASS
n38	30	10	519000	12@6	DFT_BPSK	0.77	0.00030	-2.5	2.5	PASS
n38	30	10	519000	1@1	DFT_BPSK	-2.33	-0.00090	-2.5	2.5	PASS
n38	30	10	519000	1@22	DFT_BPSK	0.63	0.00024	-2.5	2.5	PASS
n38	30	10	519000	12@6	DFT_QPSK	0.12	0.00005	-2.5	2.5	PASS
n38	30	10	519000	1@1	DFT_QPSK	-0.69	-0.00027	-2.5	2.5	PASS
n38	30	10	519000	1@22	DFT_QPSK	-1.57	-0.00061	-2.5	2.5	PASS
n38	30	10	523000	12@6	DFT_BPSK	-3.72	-0.00142	-2.5	2.5	PASS
n38	30	10	523000	1@1	DFT_BPSK	-0.89	-0.00034	-2.5	2.5	PASS
n38	30	10	523000	1@22	DFT_BPSK	-1.51	-0.00058	-2.5	2.5	PASS
n38	30	10	523000	12@6	DFT_QPSK	-8.83	-0.00338	-2.5	2.5	PASS
n38	30	10	523000	1@1	DFT_QPSK	-4.21	-0.00161	-2.5	2.5	PASS
n38	30	10	523000	1@22	DFT_QPSK	-8.92	-0.00341	-2.5	2.5	PASS
n38	30	15	515500	18@9	DFT_BPSK	-10.27	-0.00398	-2.5	2.5	PASS
n38	30	15	515500	1@1	DFT_BPSK	-8.86	-0.00344	-2.5	2.5	PASS
n38	30	15	515500	1@36	DFT_BPSK	-5.75	-0.00223	-2.5	2.5	PASS
n38	30	15	515500	18@9	DFT_QPSK	-9.81	-0.00381	-2.5	2.5	PASS
n38	30	15	515500	1@1	DFT_QPSK	-8.94	-0.00347	-2.5	2.5	PASS
n38	30	15	515500	1@36	DFT_QPSK	-8.51	-0.00330	-2.5	2.5	PASS
n38	30	15	519000	18@9	DFT_BPSK	-3.51	-0.00135	-2.5	2.5	PASS
n38	30	15	519000	1@1	DFT_BPSK	-3.69	-0.00142	-2.5	2.5	PASS
n38	30	15	519000	1@36	DFT_BPSK	-0.08	-0.00003	-2.5	2.5	PASS
n38	30	15	519000	18@9	DFT_QPSK	-1.32	-0.00051	-2.5	2.5	PASS
n38	30	15	519000	1@1	DFT_QPSK	-3.29	-0.00127	-2.5	2.5	PASS
n38	30	15	519000	1@36	DFT_QPSK	1.32	0.00051	-2.5	2.5	PASS
n38	30	15	522500	18@9	DFT_BPSK	-7.13	-0.00273	-2.5	2.5	PASS
n38	30	15	522500	1@1	DFT_BPSK	-12.70	-0.00486	-2.5	2.5	PASS
n38	30	15	522500	1@36	DFT_BPSK	-11.71	-0.00448	-2.5	2.5	PASS
n38	30	15	522500	18@9	DFT_QPSK	-9.58	-0.00367	-2.5	2.5	PASS
n38	30	15	522500	1@1	DFT_QPSK	-8.95	-0.00343	-2.5	2.5	PASS
n38	30	15	522500	1@36	DFT_QPSK	-11.58	-0.00443	-2.5	2.5	PASS
n38	30	20	516000	25@12	DFT_BPSK	-2.42	-0.00094	-2.5	2.5	PASS
n38	30	20	516000	1@1	DFT_BPSK	-0.91	-0.00035	-2.5	2.5	PASS
n38	30	20	516000	1@49	DFT_BPSK	-4.00	-0.00155	-2.5	2.5	PASS

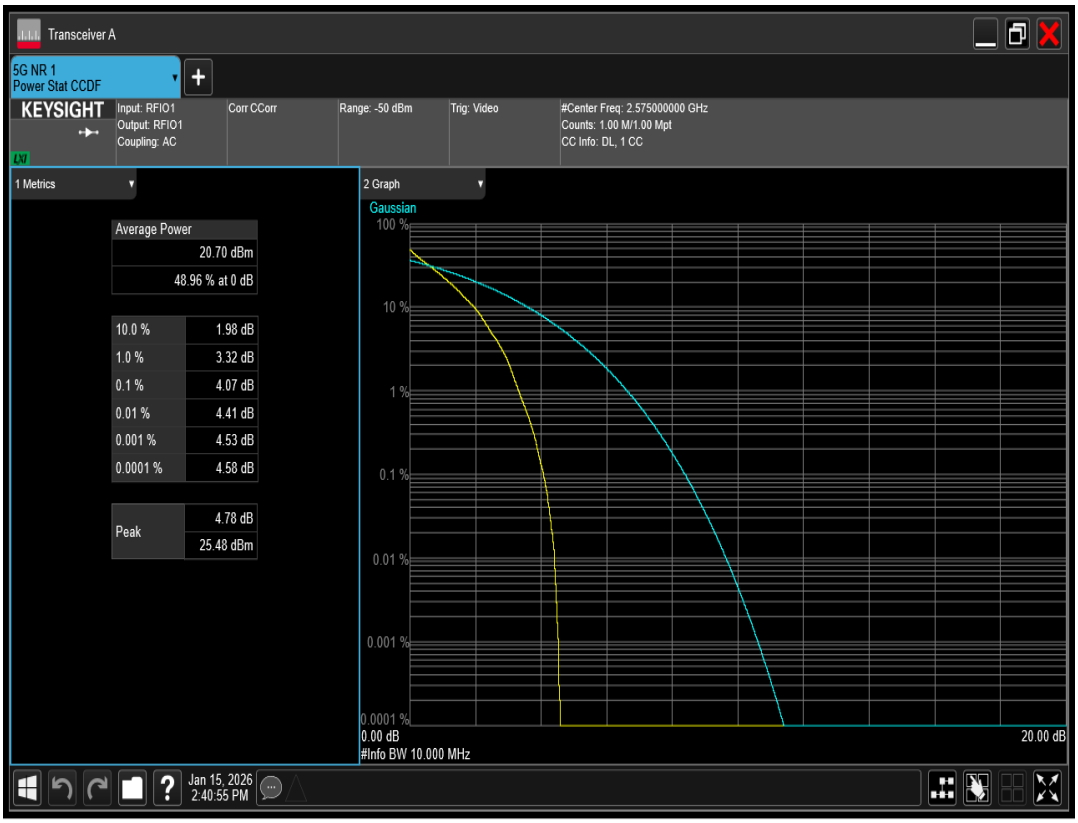
n38	30	20	516000	25@12	DFT_QPSK	-3.14	-0.00122	-2.5	2.5	PASS
n38	30	20	516000	1@1	DFT_QPSK	0.17	0.00007	-2.5	2.5	PASS
n38	30	20	516000	1@49	DFT_QPSK	-3.46	-0.00134	-2.5	2.5	PASS
n38	30	20	519000	25@12	DFT_BPSK	0.48	0.00018	-2.5	2.5	PASS
n38	30	20	519000	1@1	DFT_BPSK	-4.19	-0.00161	-2.5	2.5	PASS
n38	30	20	519000	1@49	DFT_BPSK	-3.05	-0.00118	-2.5	2.5	PASS
n38	30	20	519000	25@12	DFT_QPSK	-3.57	-0.00138	-2.5	2.5	PASS
n38	30	20	519000	1@1	DFT_QPSK	-0.20	-0.00008	-2.5	2.5	PASS
n38	30	20	519000	1@49	DFT_QPSK	-3.62	-0.00139	-2.5	2.5	PASS
n38	30	20	522000	25@12	DFT_BPSK	-4.56	-0.00175	-2.5	2.5	PASS
n38	30	20	522000	1@1	DFT_BPSK	-3.47	-0.00133	-2.5	2.5	PASS
n38	30	20	522000	1@49	DFT_BPSK	-3.03	-0.00116	-2.5	2.5	PASS
n38	30	20	522000	25@12	DFT_QPSK	-1.79	-0.00069	-2.5	2.5	PASS
n38	30	20	522000	1@1	DFT_QPSK	0.12	0.00005	-2.5	2.5	PASS
n38	30	20	522000	1@49	DFT_QPSK	-0.79	-0.00030	-2.5	2.5	PASS

3 Peak-to-Average Ratio for EN-DC

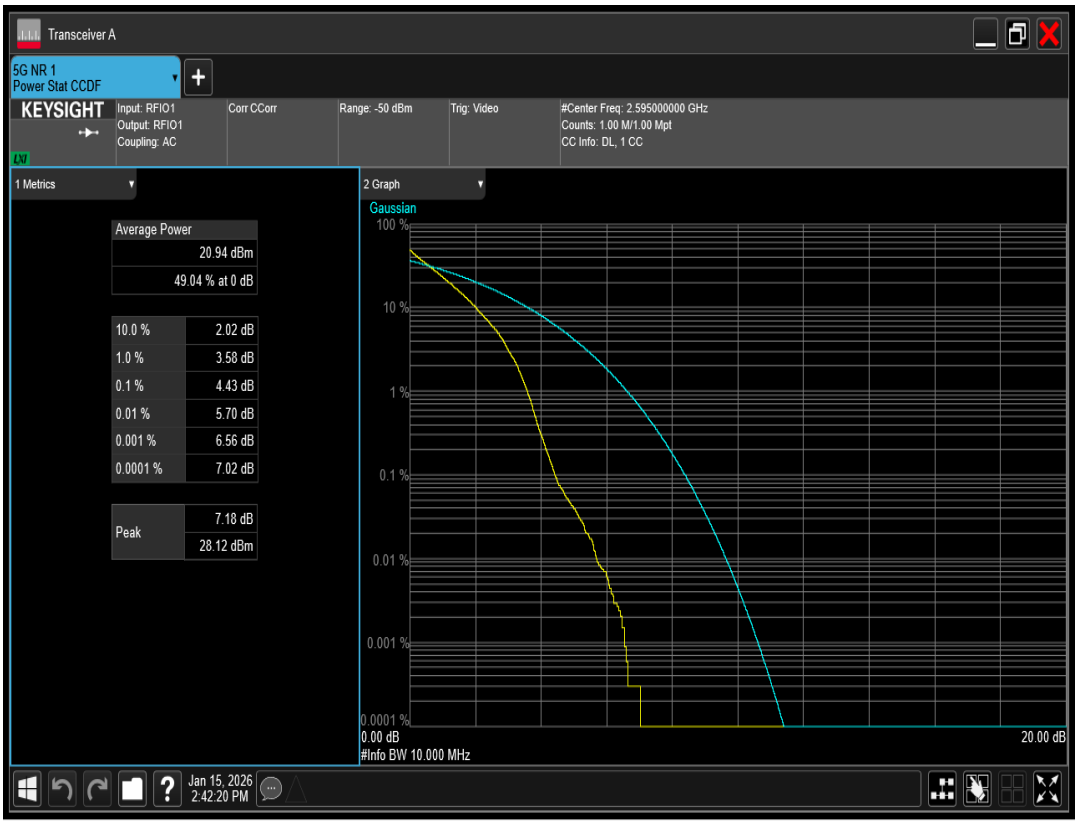
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Result (dB)	high Limit (dB)	Verdict
n38	30	10	515000	24@0	DFT_BPSK	4.07	13	PASS
n38	30	10	515000	24@0	DFT_QPSK	5.17	13	PASS
n38	30	10	515000	24@0	DFT_QAM16	5.97	13	PASS
n38	30	10	515000	24@0	DFT_QAM64	6.15	13	PASS
n38	30	10	515000	24@0	DFT_QAM256	6.27	13	PASS
n38	30	10	519000	24@0	DFT_BPSK	4.43	13	PASS
n38	30	10	519000	24@0	DFT_QPSK	5.21	13	PASS
n38	30	10	519000	24@0	DFT_QAM16	5.81	13	PASS
n38	30	10	519000	24@0	DFT_QAM64	6.19	13	PASS
n38	30	10	519000	24@0	DFT_QAM256	6.36	13	PASS
n38	30	10	523000	24@0	DFT_BPSK	4.27	13	PASS
n38	30	10	523000	24@0	DFT_QPSK	5.17	13	PASS
n38	30	10	523000	24@0	DFT_QAM16	5.93	13	PASS
n38	30	10	523000	24@0	DFT_QAM64	6.29	13	PASS
n38	30	10	523000	24@0	DFT_QAM256	6.44	13	PASS
n38	30	15	515500	36@0	DFT_BPSK	4.42	13	PASS
n38	30	15	515500	36@0	DFT_QPSK	5.15	13	PASS
n38	30	15	515500	36@0	DFT_QAM16	5.81	13	PASS
n38	30	15	515500	36@0	DFT_QAM64	6.04	13	PASS
n38	30	15	515500	36@0	DFT_QAM256	6.44	13	PASS
n38	30	15	519000	36@0	DFT_BPSK	4.20	13	PASS
n38	30	15	519000	36@0	DFT_QPSK	5.10	13	PASS
n38	30	15	519000	36@0	DFT_QAM16	5.80	13	PASS
n38	30	15	519000	36@0	DFT_QAM64	6.03	13	PASS
n38	30	15	519000	36@0	DFT_QAM256	6.46	13	PASS
n38	30	15	522500	36@0	DFT_BPSK	4.16	13	PASS
n38	30	15	522500	36@0	DFT_QPSK	5.12	13	PASS
n38	30	15	522500	36@0	DFT_QAM16	5.77	13	PASS
n38	30	15	522500	36@0	DFT_QAM64	6.05	13	PASS
n38	30	15	522500	36@0	DFT_QAM256	6.53	13	PASS
n38	30	20	516000	50@0	DFT_BPSK	4.33	13	PASS
n38	30	20	516000	50@0	DFT_QPSK	5.13	13	PASS
n38	30	20	516000	50@0	DFT_QAM16	5.76	13	PASS
n38	30	20	516000	50@0	DFT_QAM64	6.02	13	PASS
n38	30	20	516000	50@0	DFT_QAM256	6.52	13	PASS
n38	30	20	519000	50@0	DFT_BPSK	4.16	13	PASS
n38	30	20	519000	50@0	DFT_QPSK	5.17	13	PASS
n38	30	20	519000	50@0	DFT_QAM16	5.80	13	PASS
n38	30	20	519000	50@0	DFT_QAM64	6.05	13	PASS
n38	30	20	519000	50@0	DFT_QAM256	6.28	13	PASS

n38	30	20	522000	50@0	DFT_BPSK	4.34	13	PASS
n38	30	20	522000	50@0	DFT_QPSK	5.16	13	PASS
n38	30	20	522000	50@0	DFT_QAM16	5.78	13	PASS
n38	30	20	522000	50@0	DFT_QAM64	6.06	13	PASS
n38	30	20	522000	50@0	DFT_QAM256	6.09	13	PASS

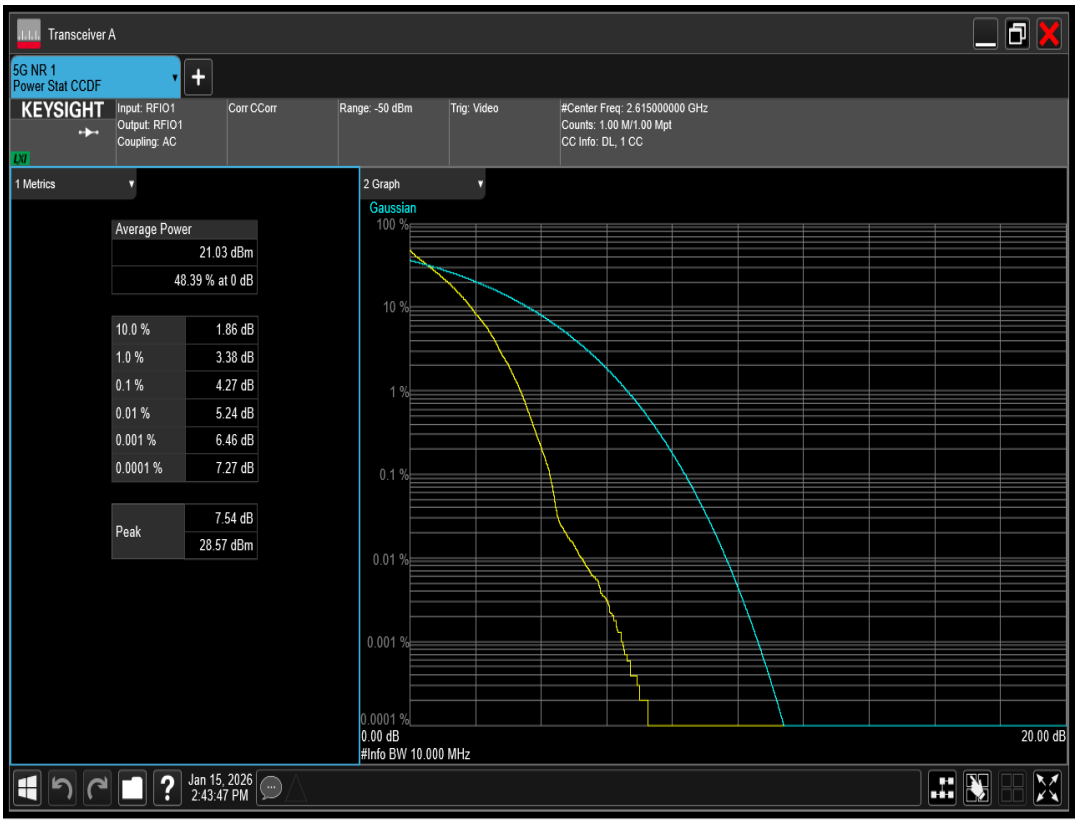
n38 SCS=30kHz DFT_BPSK BW=10MHz Channel=515000 RB=24@0



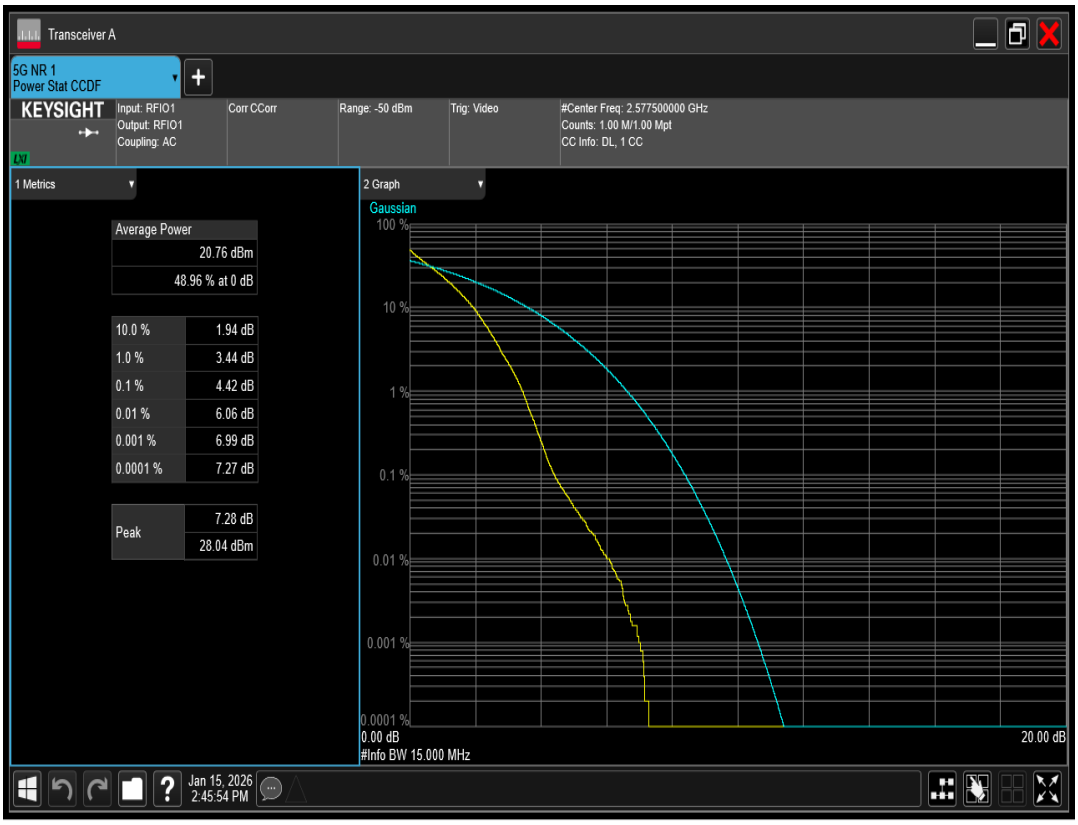
n38 SCS=30kHz DFT_BPSK BW=10MHz Channel=519000 RB=24@0



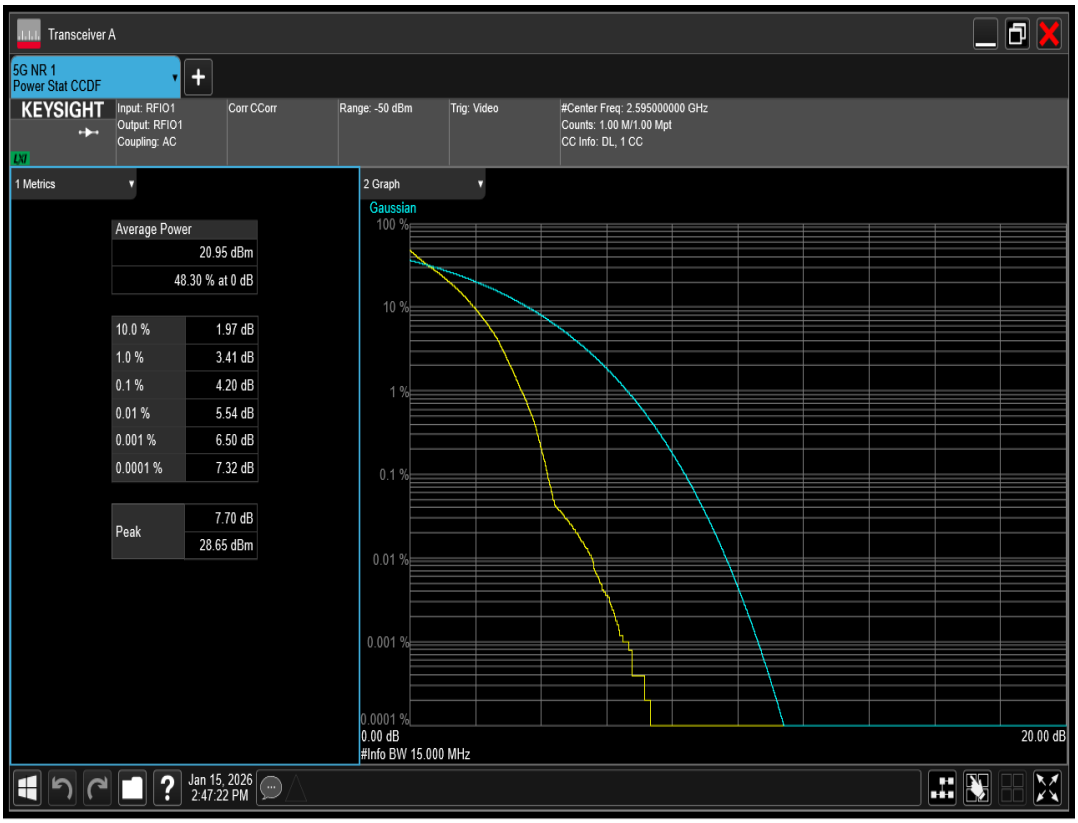
n38 SCS=30kHz DFT_BPSK BW=10MHz Channel=523000 RB=24@0



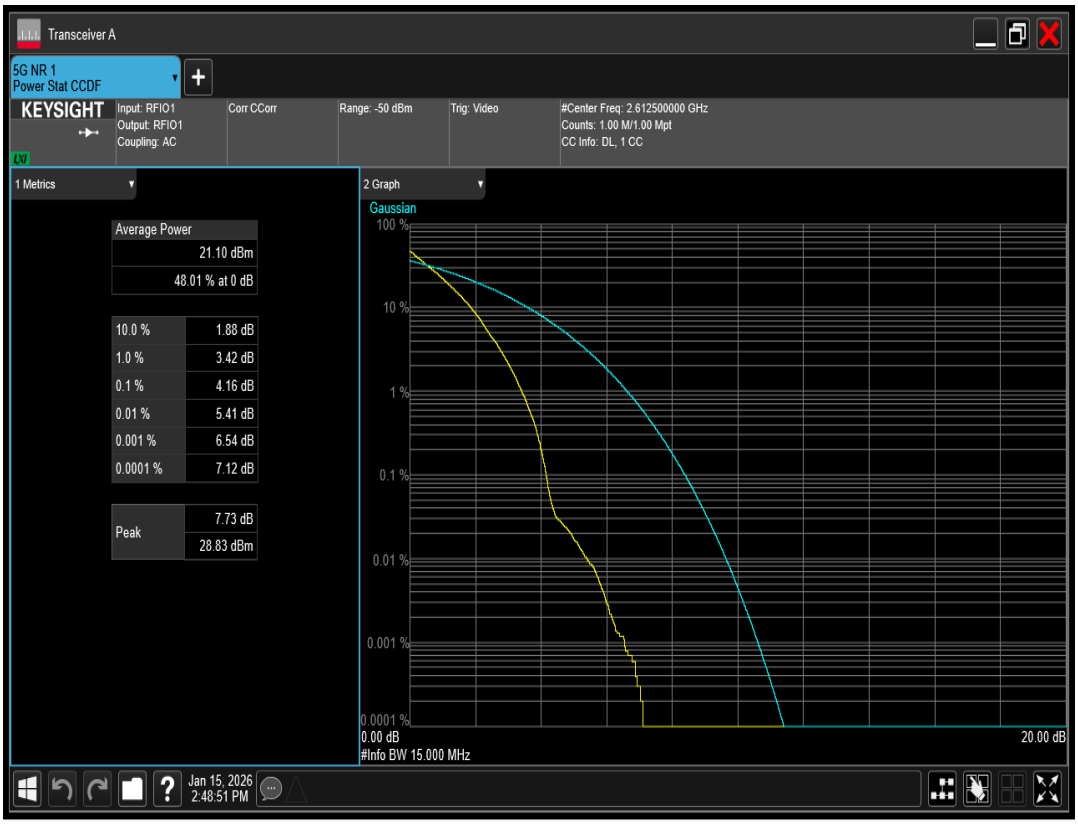
n38 SCS=30kHz DFT_BPSK BW=15MHz Channel=515500 RB=36@0



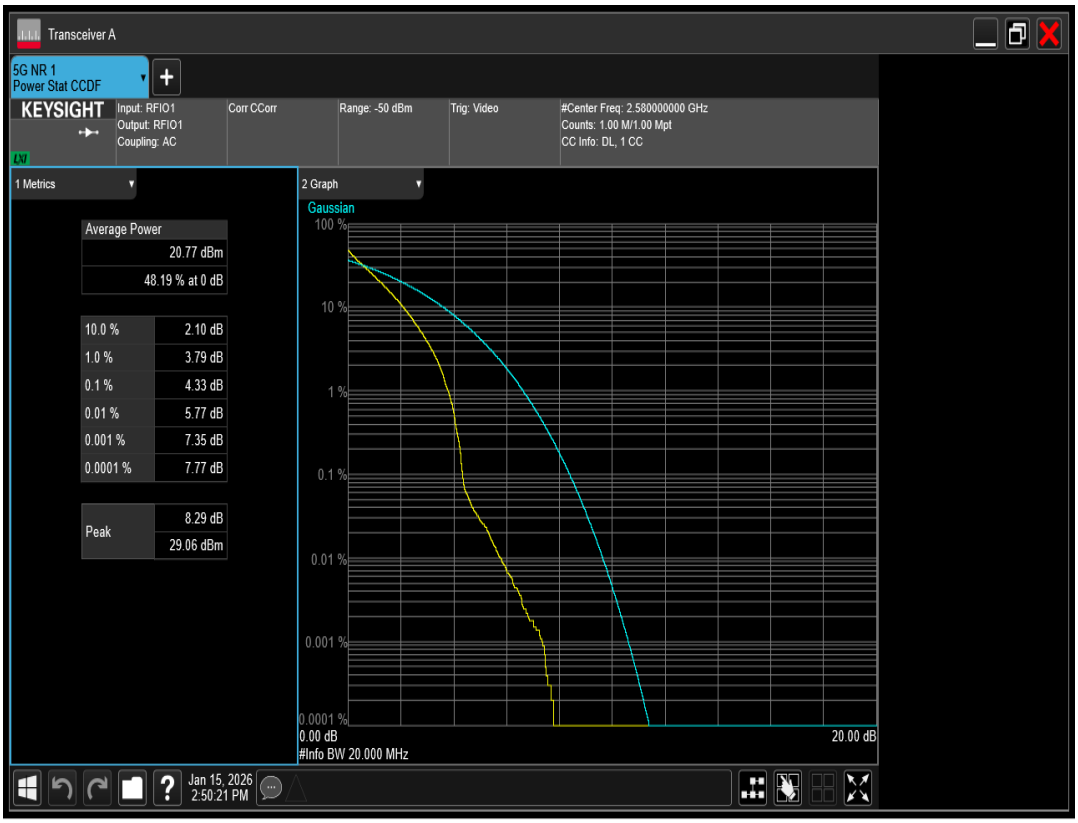
n38 SCS=30kHz DFT_BPSK BW=15MHz Channel=519000 RB=36@0



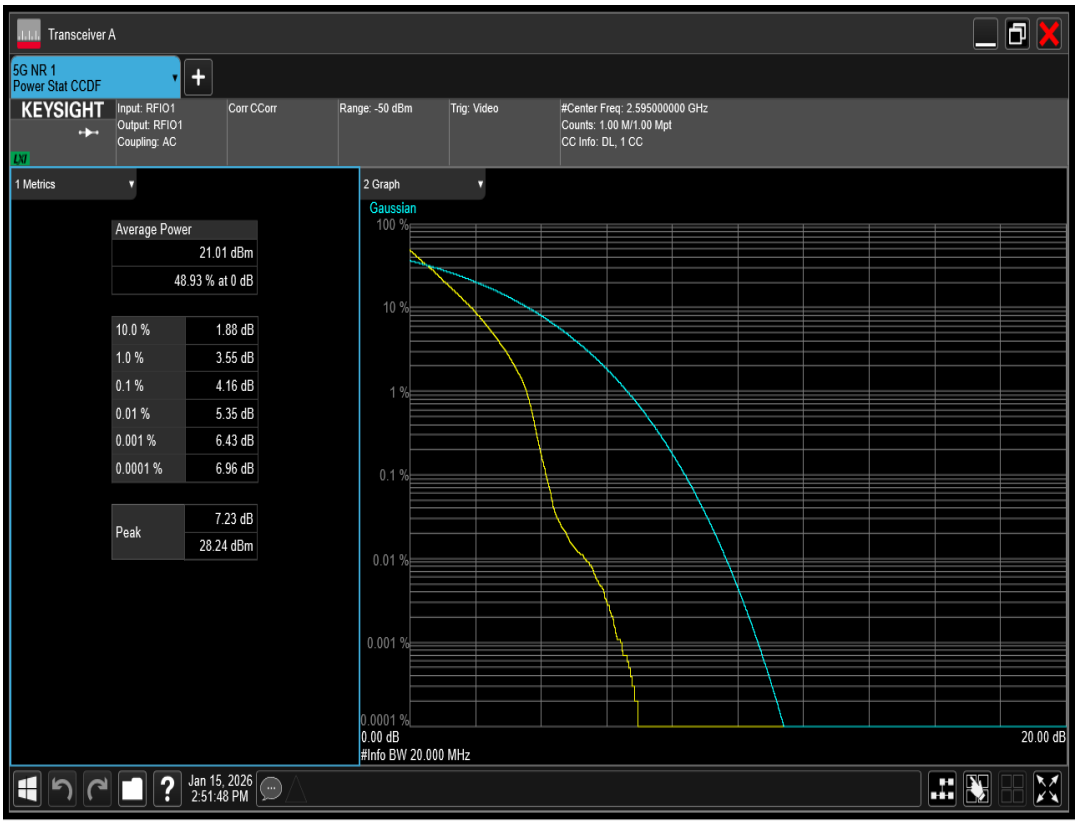
n38 SCS=30kHz DFT_BPSK BW=15MHz Channel=522500 RB=36@0



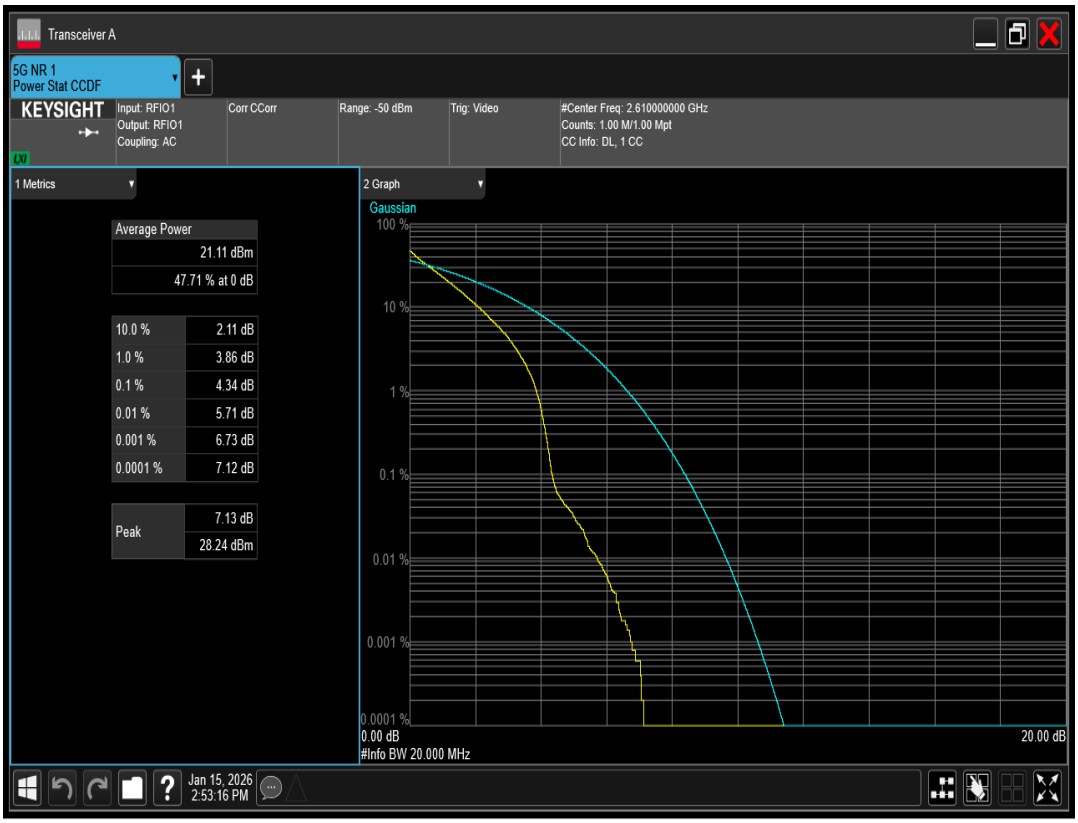
n38 SCS=30kHz DFT_BPSK BW=20MHz Channel=516000 RB=50@0



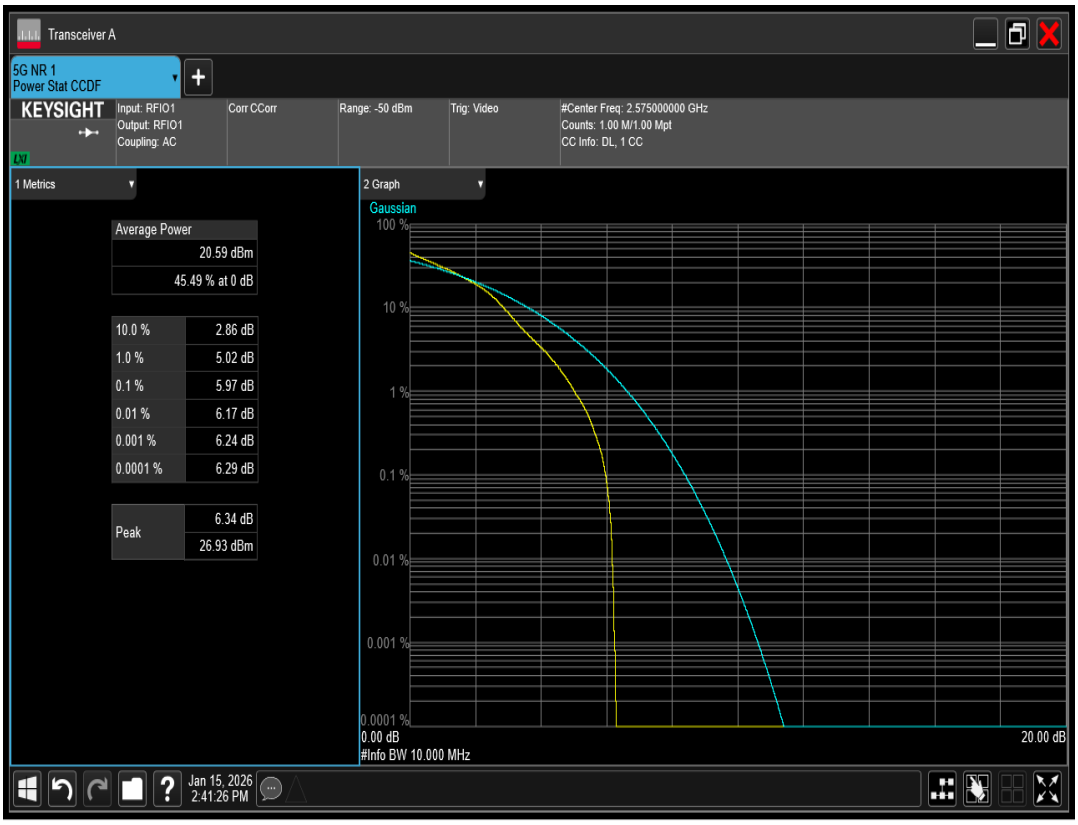
n38 SCS=30kHz DFT_BPSK BW=20MHz Channel=519000 RB=50@0



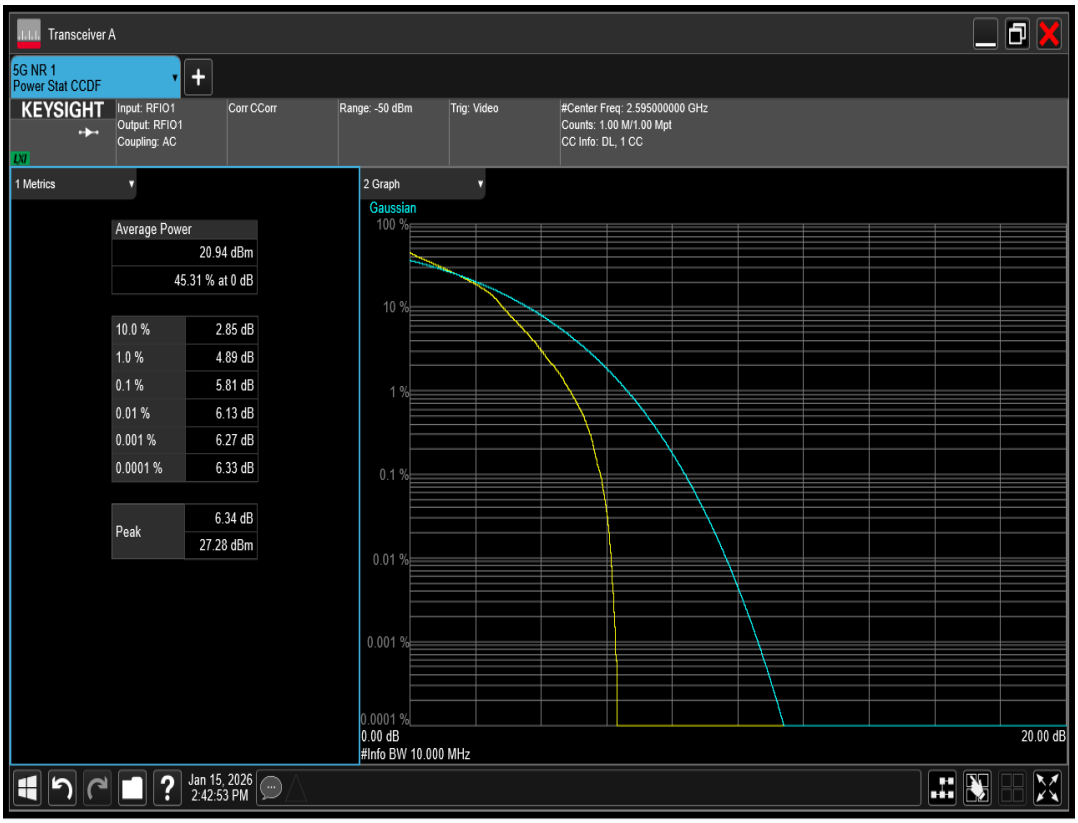
n38 SCS=30kHz DFT_BPSK BW=20MHz Channel=522000 RB=50@0



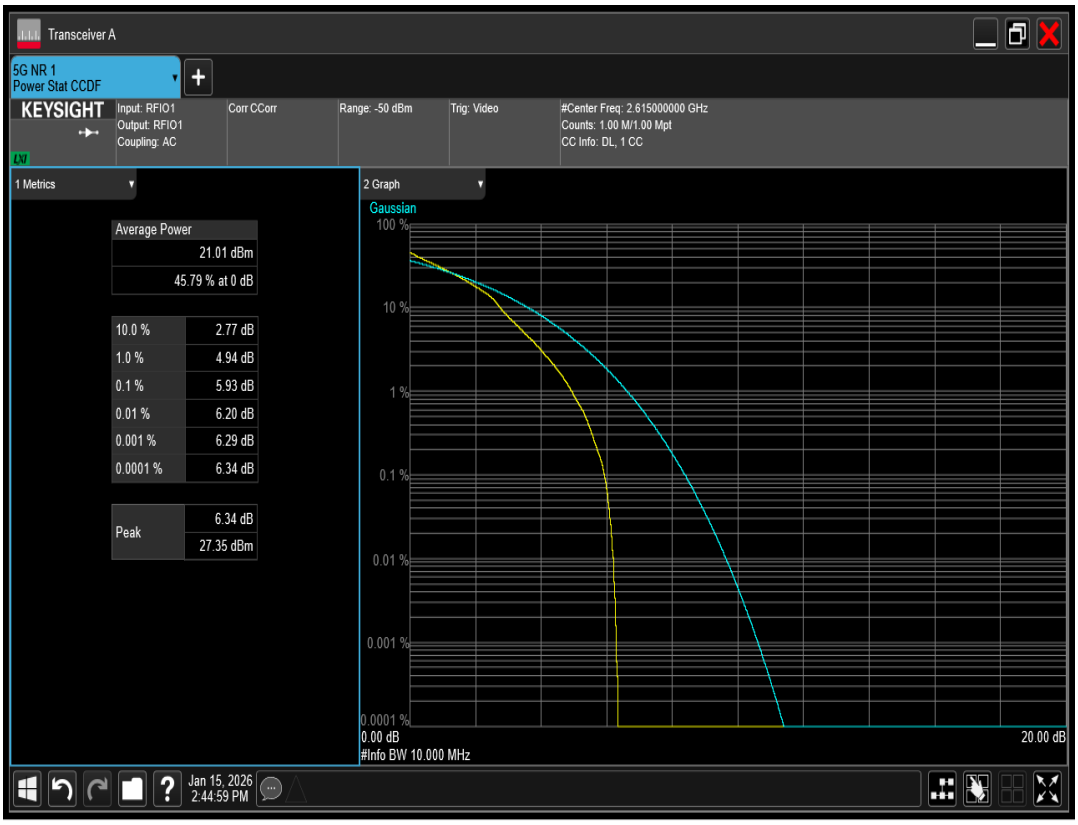
n38 SCS=30kHz DFT_QAM16 BW=10MHz Channel=515000 RB=24@0



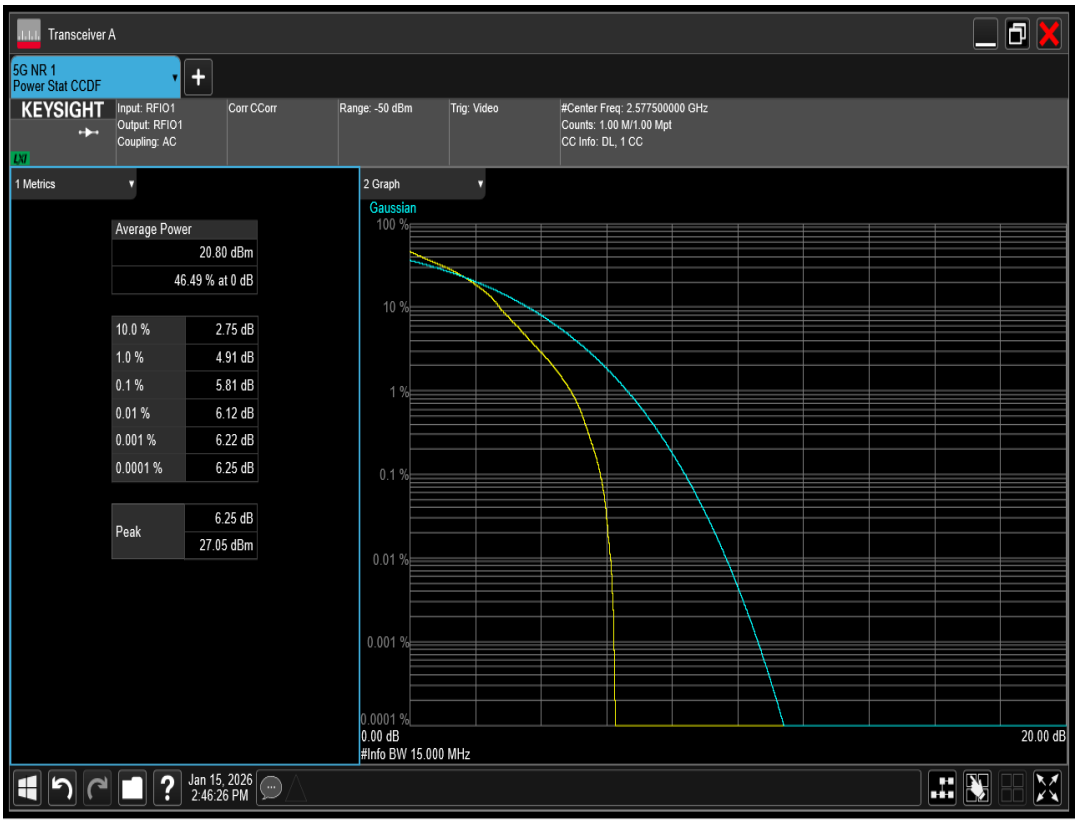
n38 SCS=30kHz DFT_QAM16 BW=10MHz Channel=519000 RB=24@0



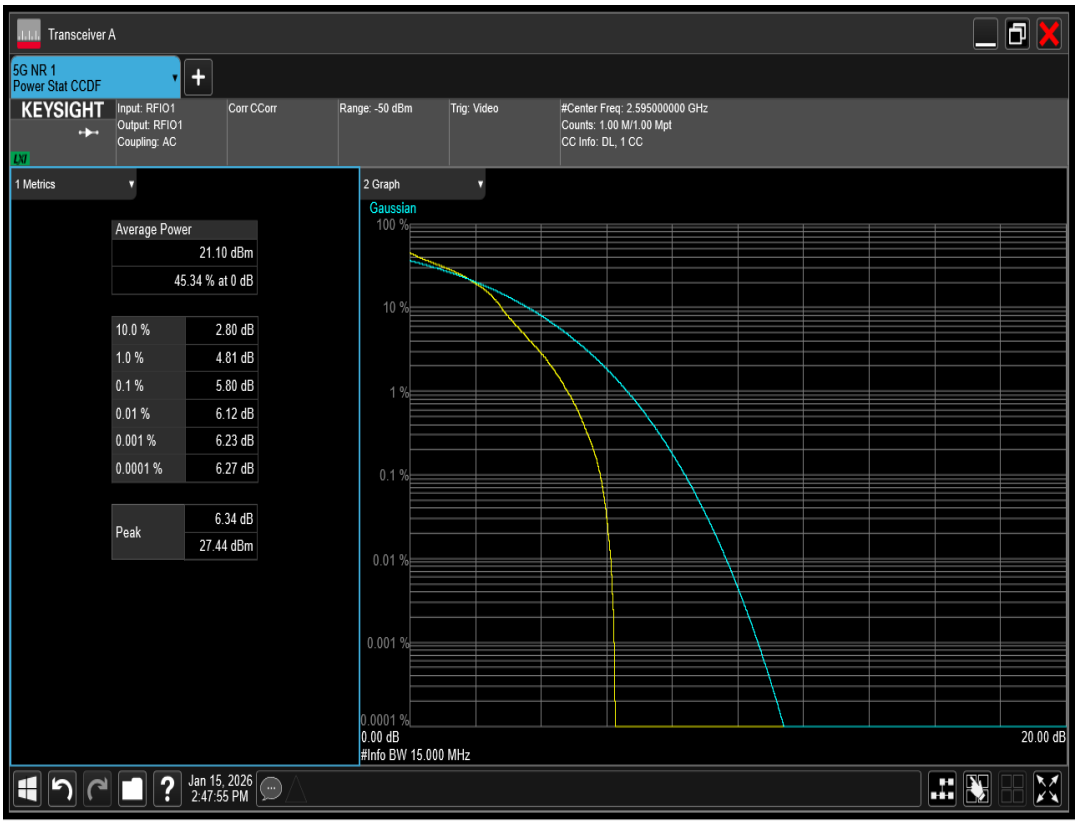
n38 SCS=30kHz DFT_QAM16 BW=10MHz Channel=523000 RB=24@0



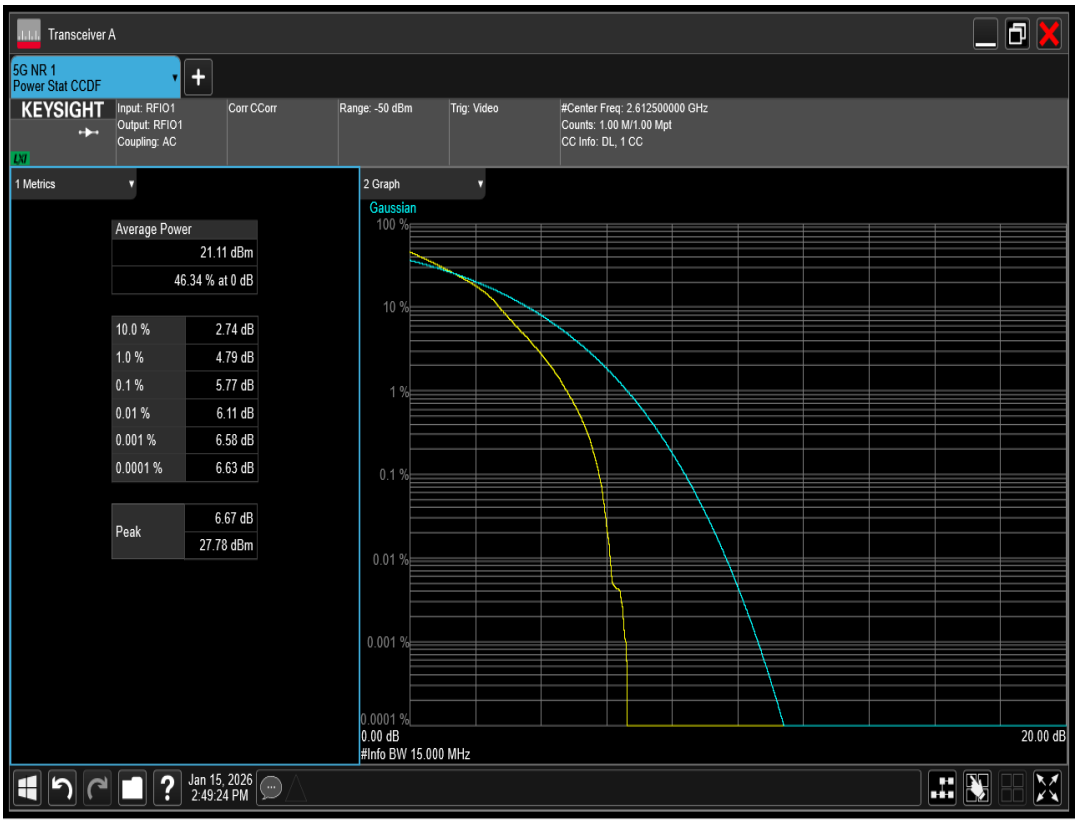
n38 SCS=30kHz DFT_QAM16 BW=15MHz Channel=515500 RB=36@0



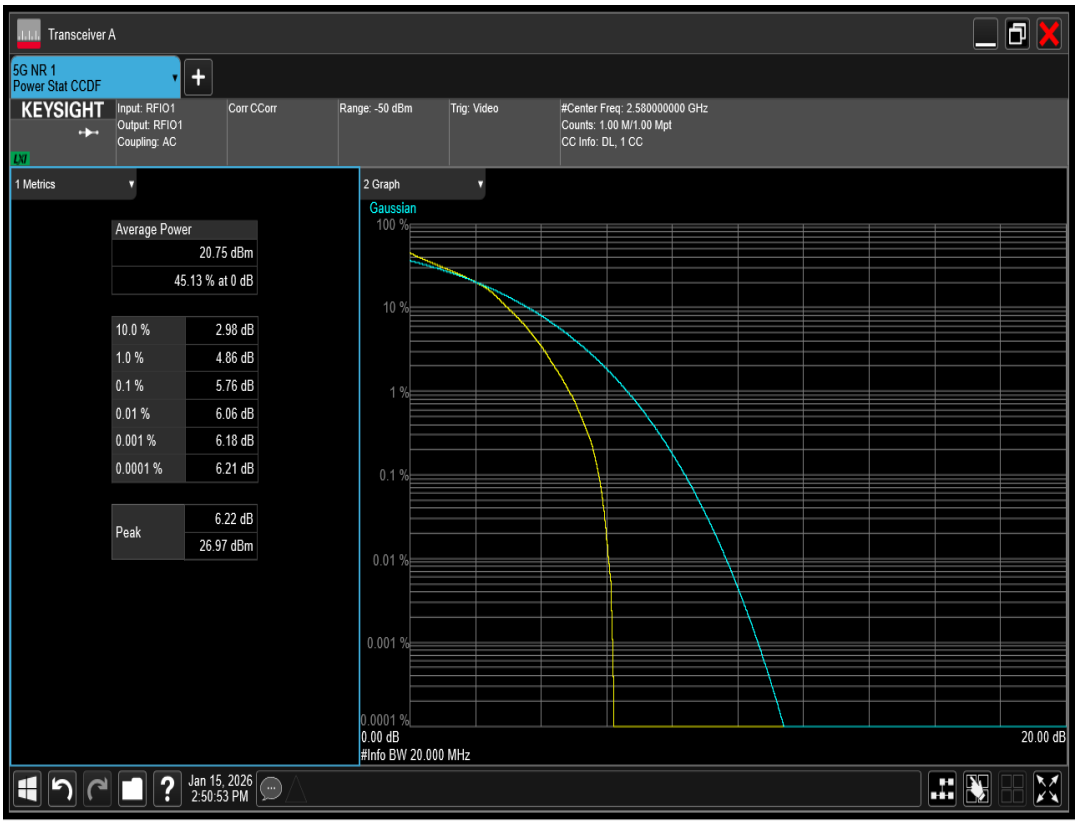
n38 SCS=30kHz DFT_QAM16 BW=15MHz Channel=519000 RB=36@0



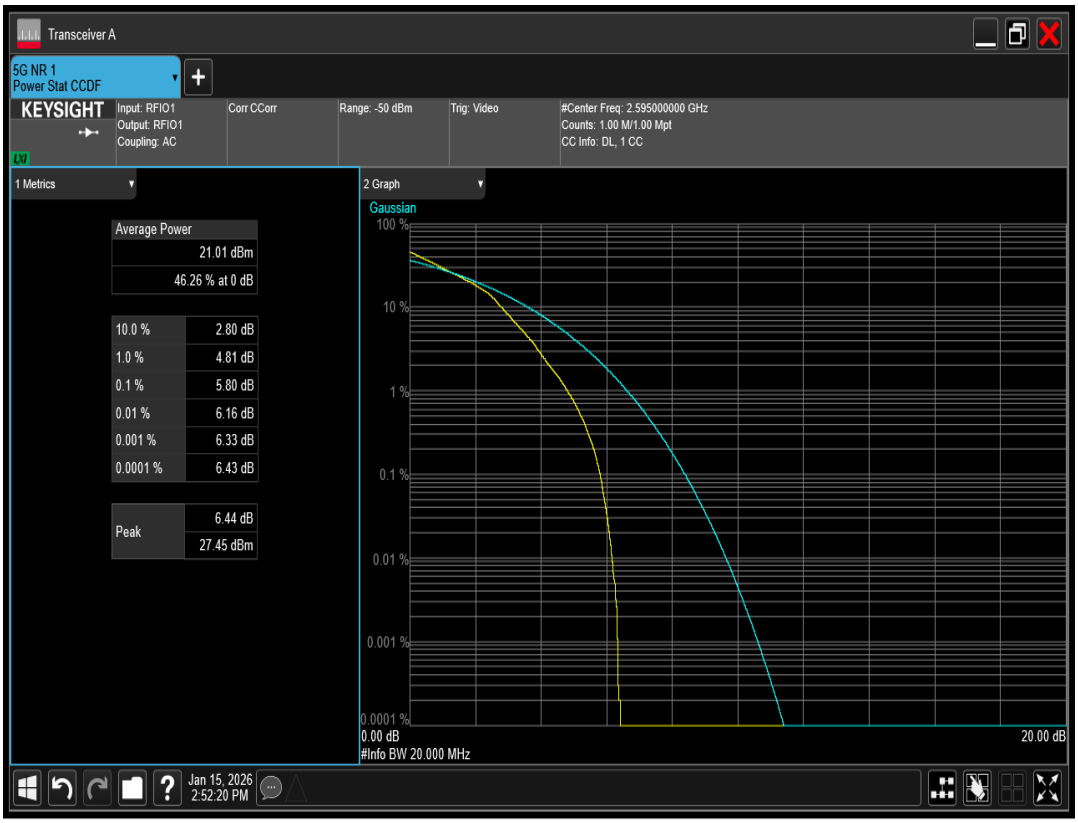
n38 SCS=30kHz DFT_QAM16 BW=15MHz Channel=522500 RB=36@0



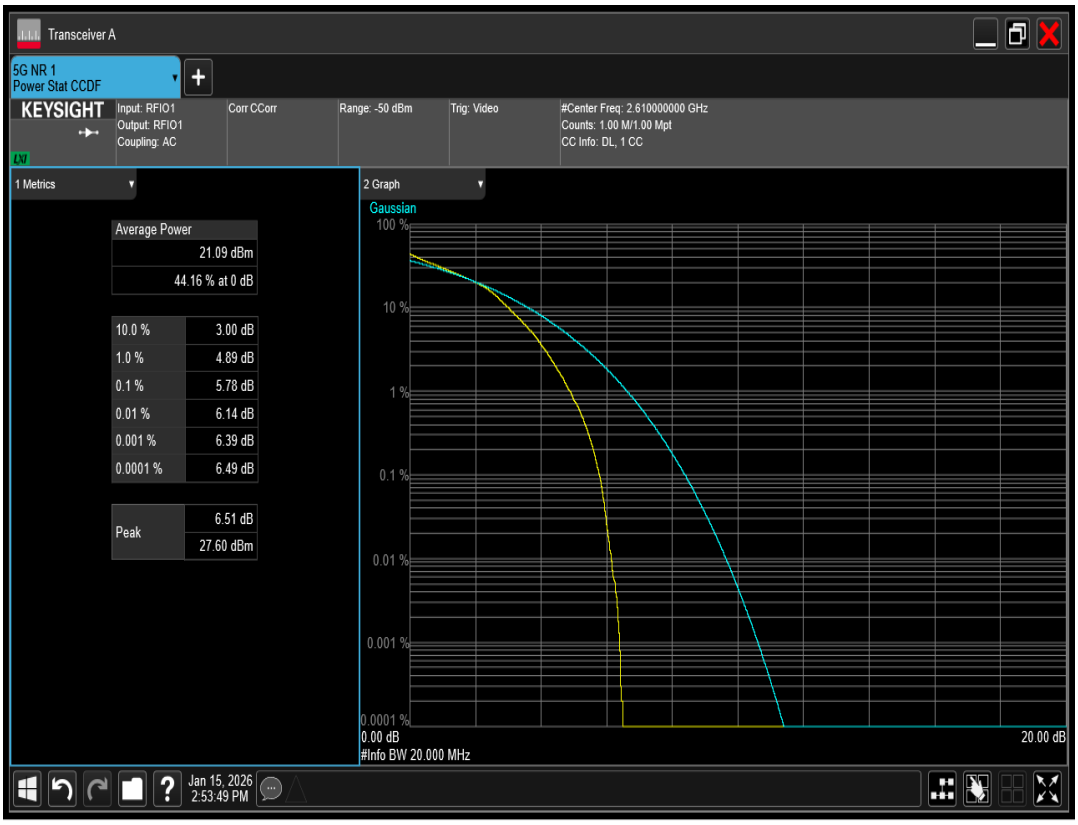
n38 SCS=30kHz DFT_QAM16 BW=20MHz Channel=516000 RB=50@0



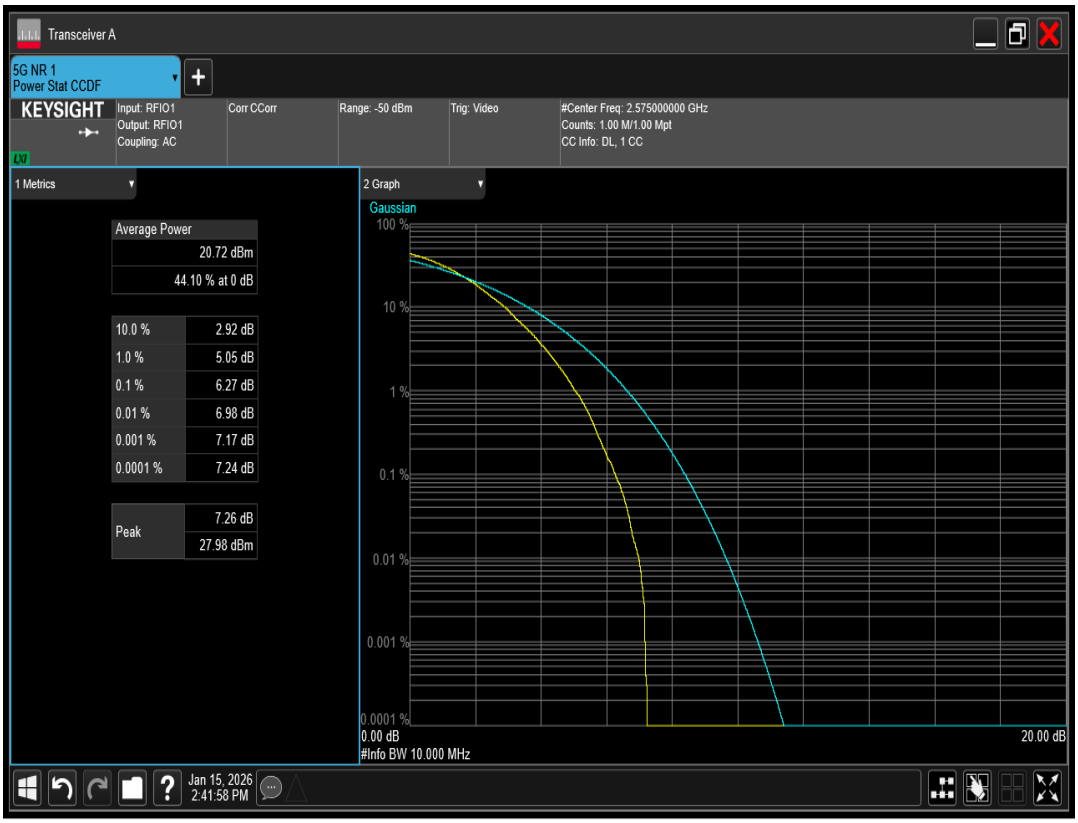
n38 SCS=30kHz DFT_QAM16 BW=20MHz Channel=519000 RB=50@0



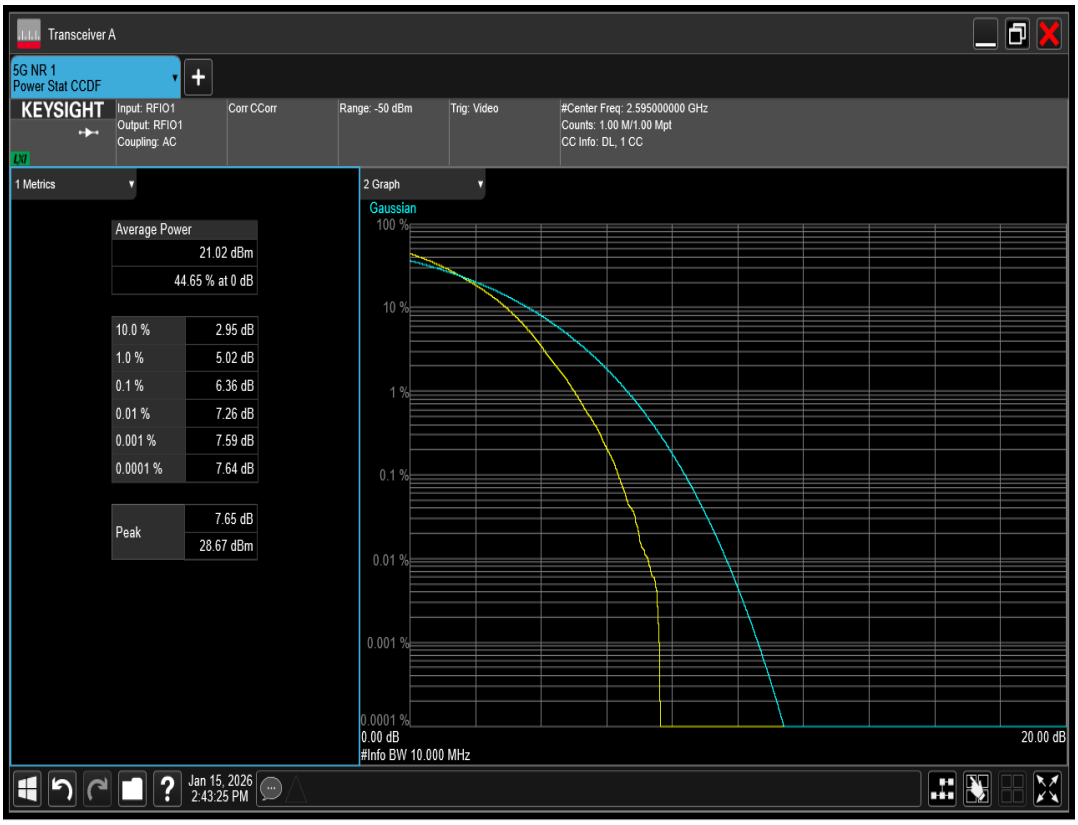
n38 SCS=30kHz DFT_QAM16 BW=20MHz Channel=522000 RB=50@0



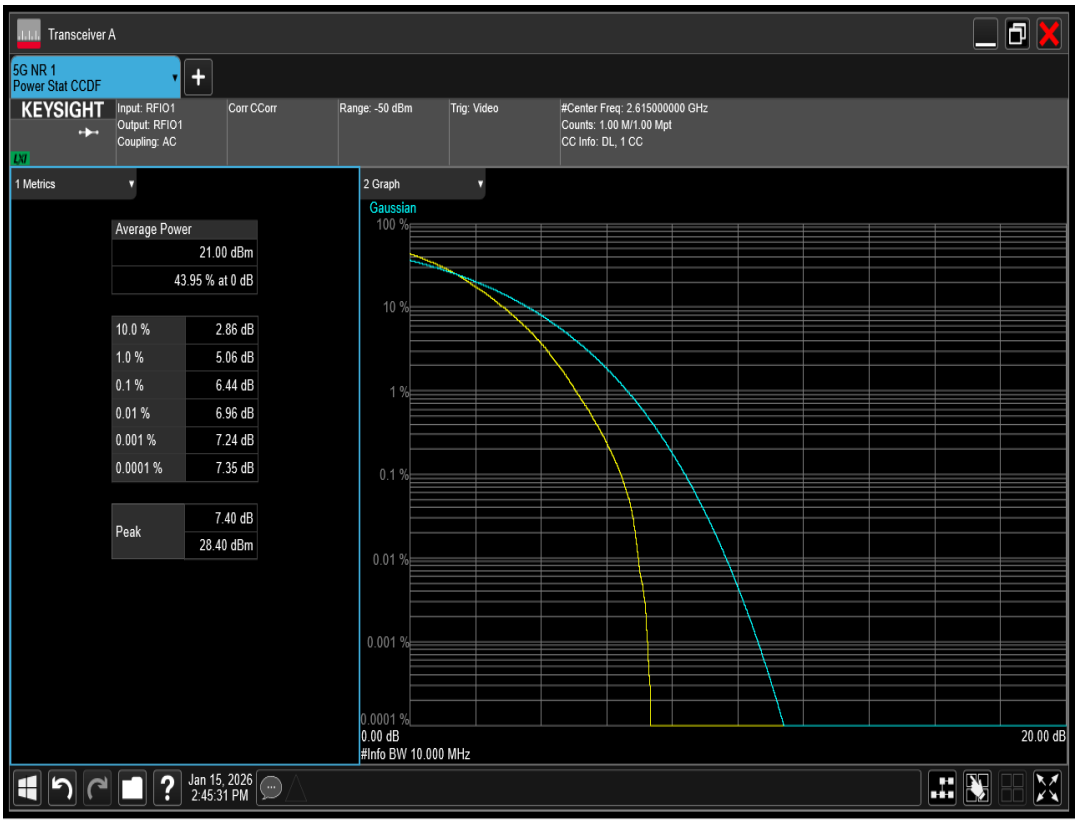
n38 SCS=30kHz DFT_QAM256 BW=10MHz Channel=515000 RB=24@0



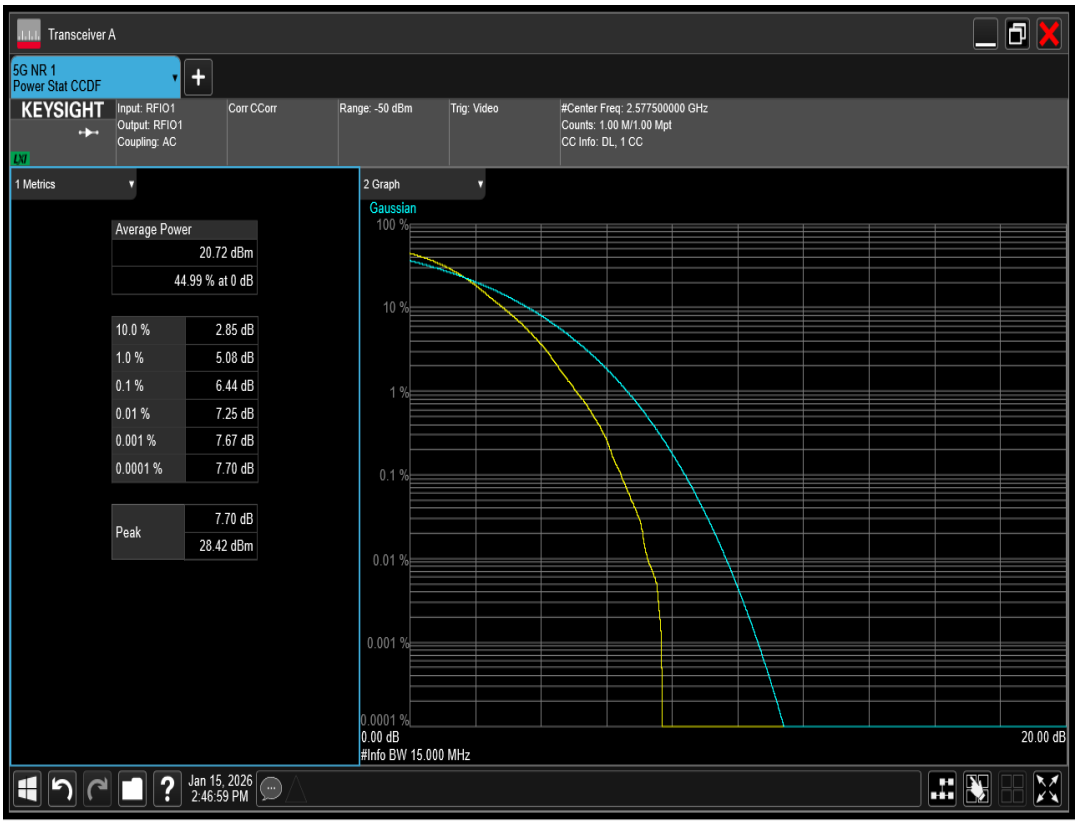
n38 SCS=30kHz DFT_QAM256 BW=10MHz Channel=519000 RB=24@0



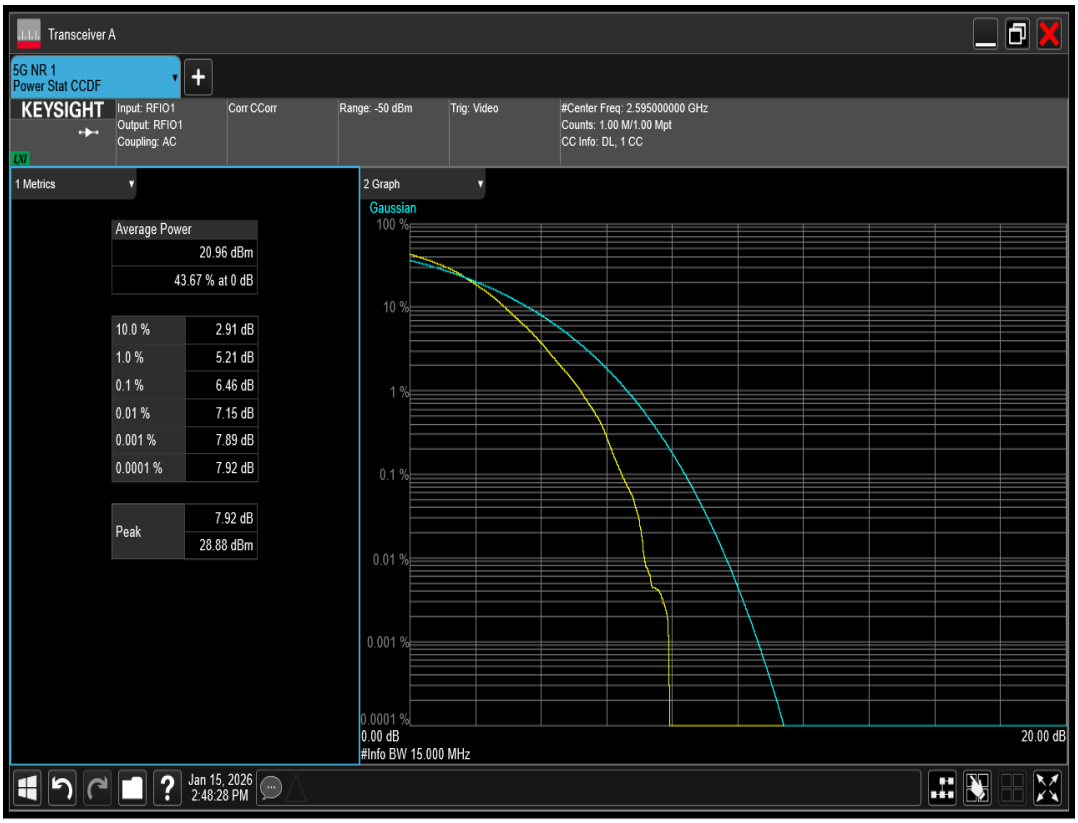
n38 SCS=30kHz DFT_QAM256 BW=10MHz Channel=523000 RB=24@0



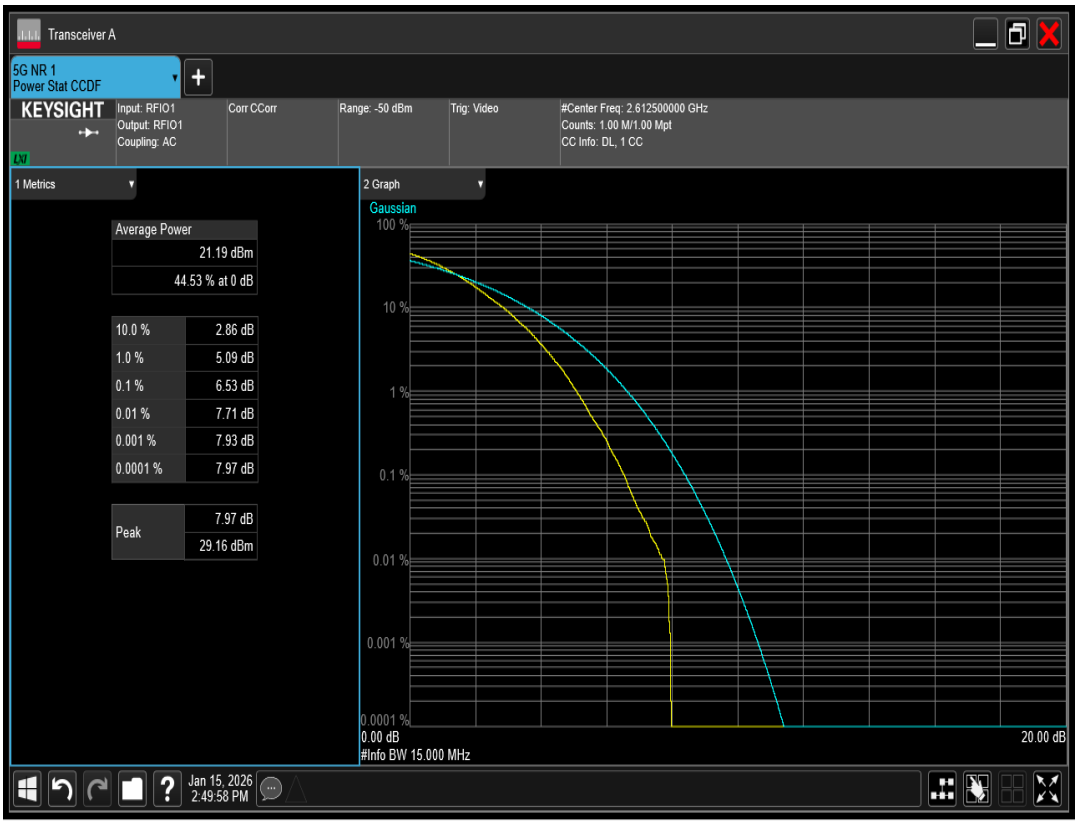
n38 SCS=30kHz DFT_QAM256 BW=15MHz Channel=515500 RB=36@0



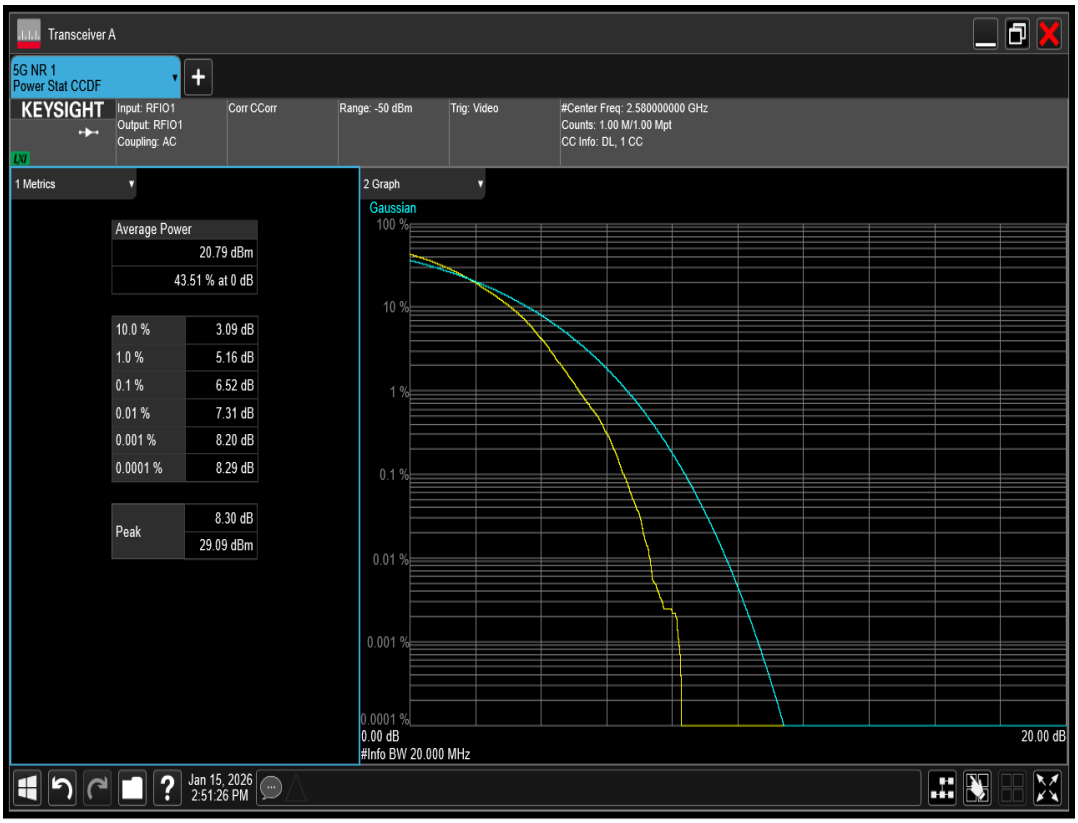
n38 SCS=30kHz DFT_QAM256 BW=15MHz Channel=519000 RB=36@0



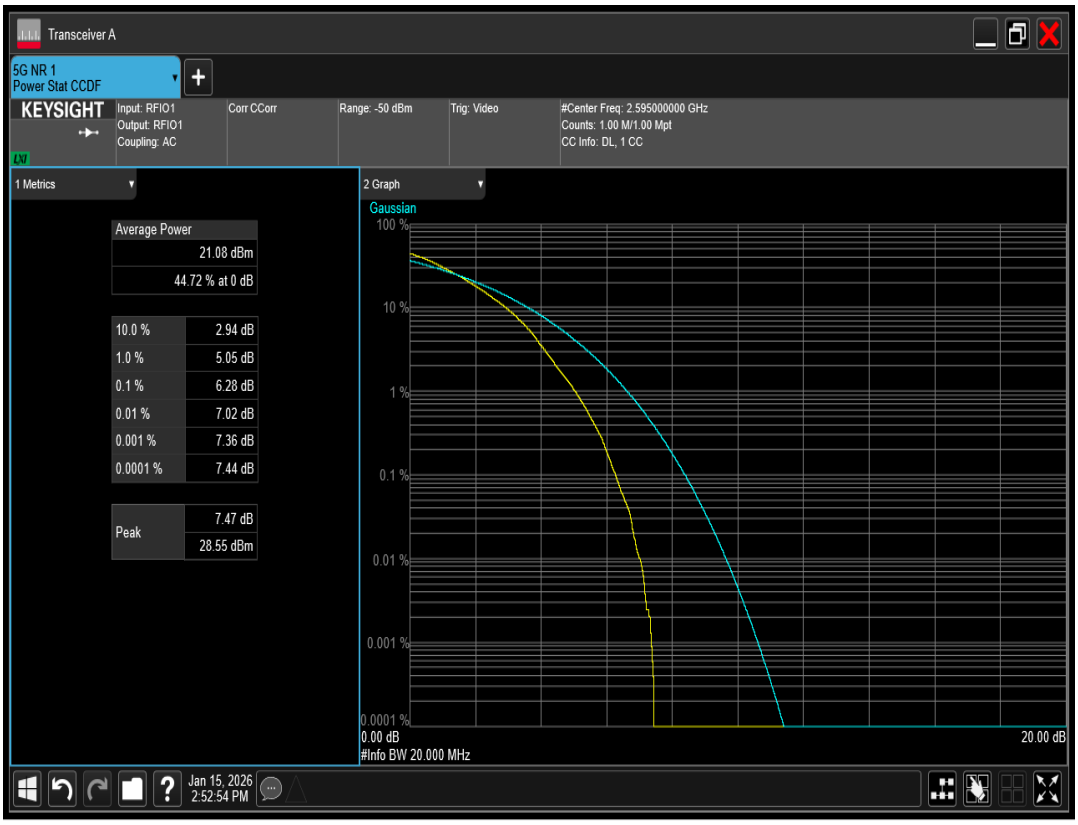
n38 SCS=30kHz DFT_QAM256 BW=15MHz Channel=522500 RB=36@0



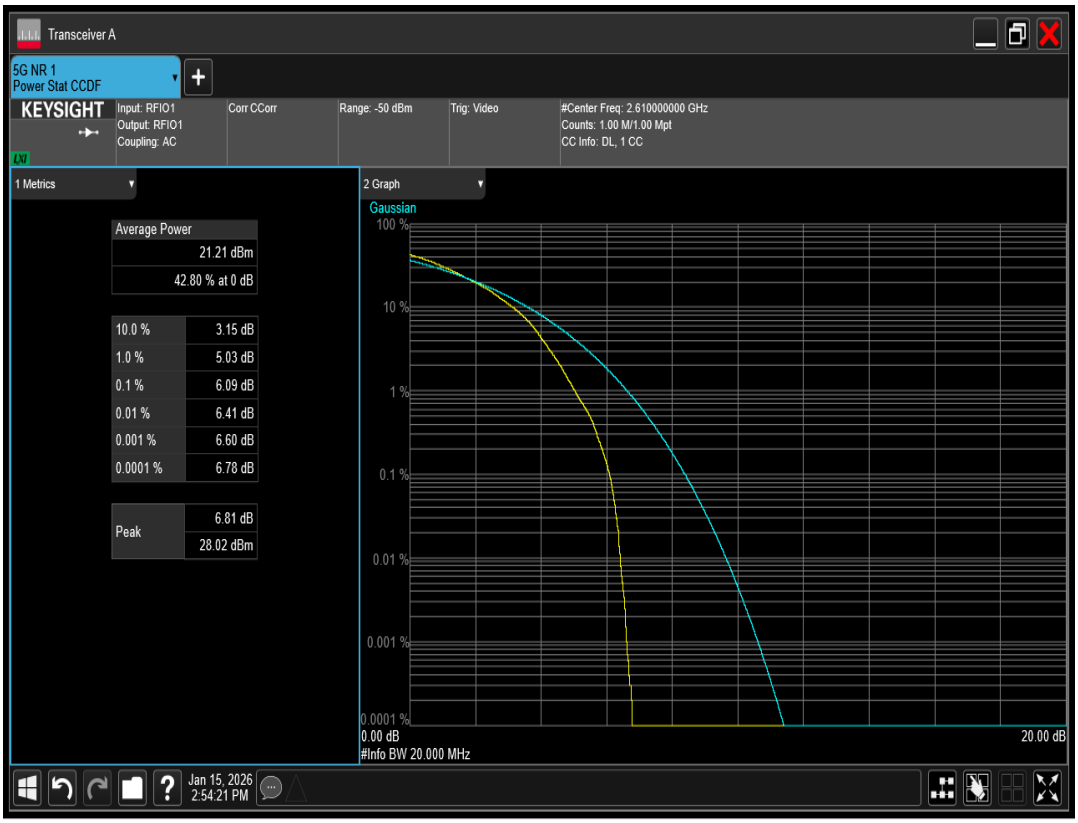
n38 SCS=30kHz DFT_QAM256 BW=20MHz Channel=516000 RB=50@0



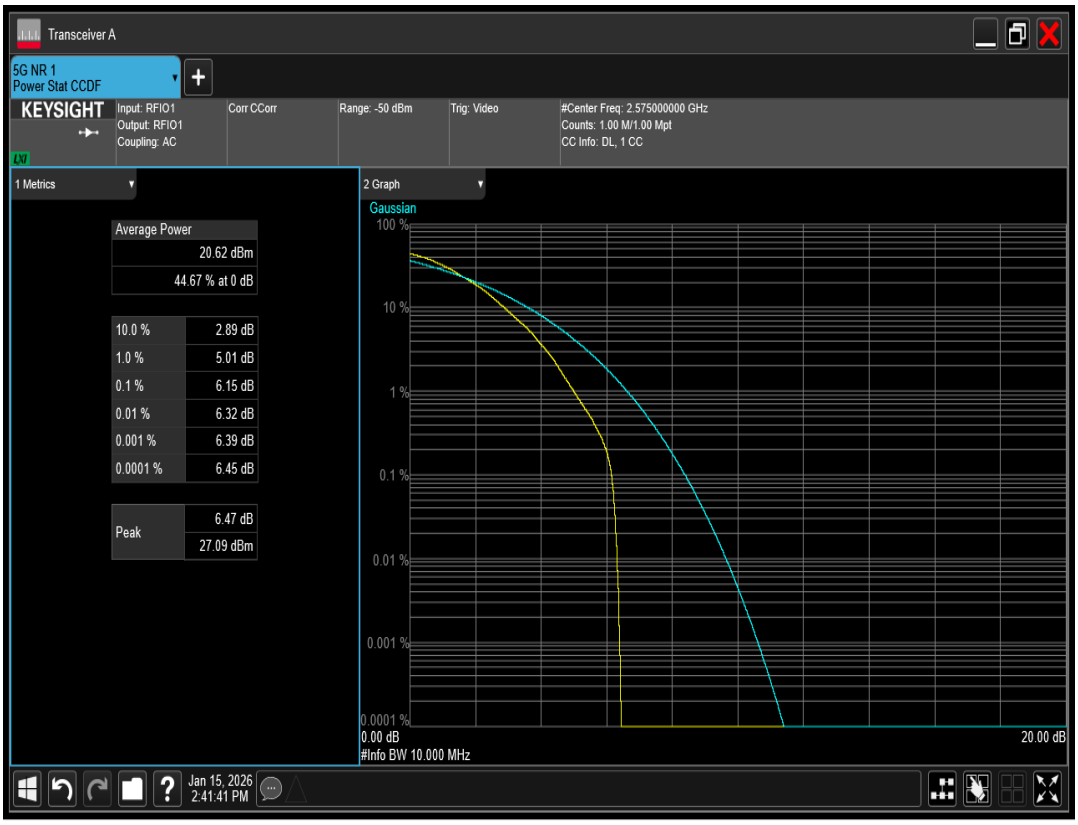
n38 SCS=30kHz DFT_QAM256 BW=20MHz Channel=519000 RB=50@0



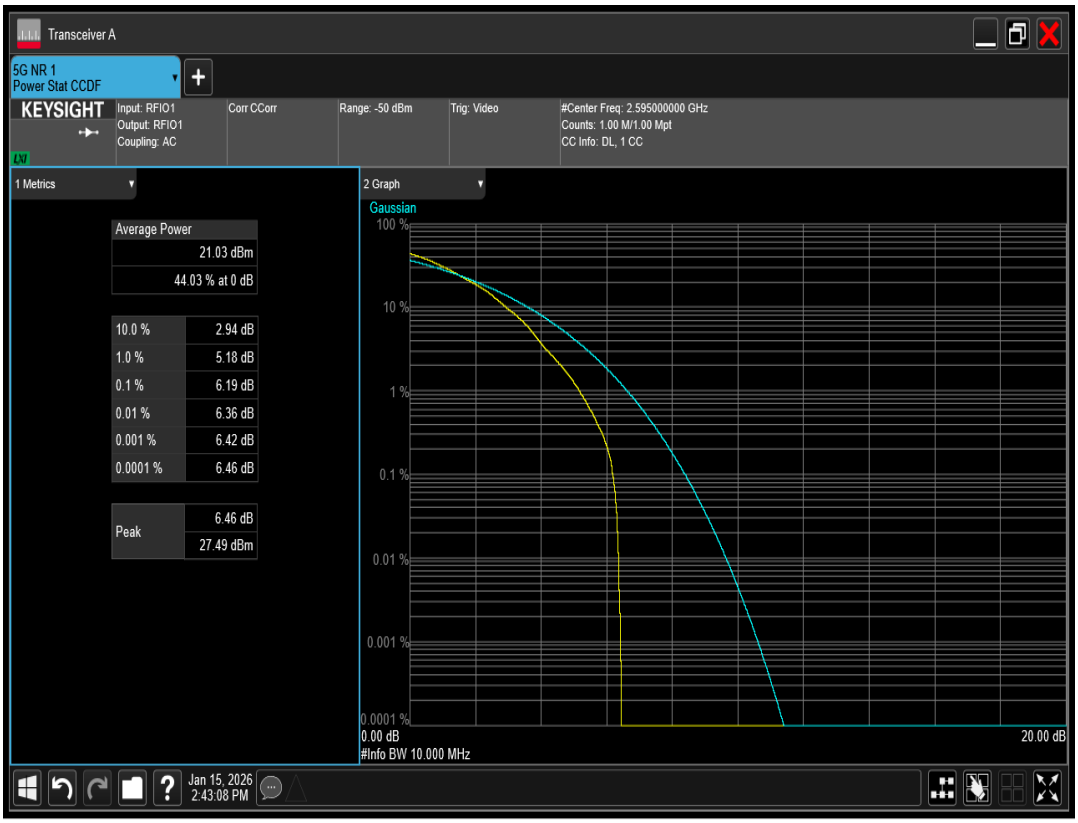
n38 SCS=30kHz DFT_QAM256 BW=20MHz Channel=522000 RB=50@0



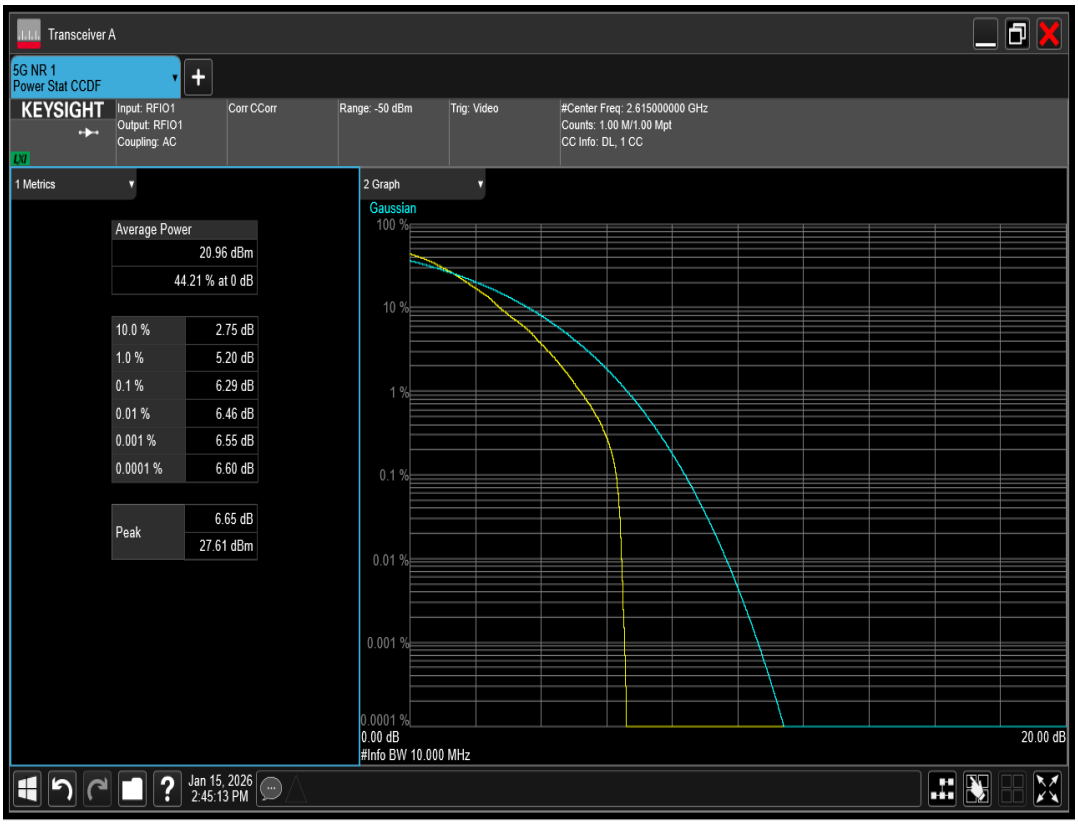
n38 SCS=30kHz DFT_QAM64 BW=10MHz Channel=515000 RB=24@0



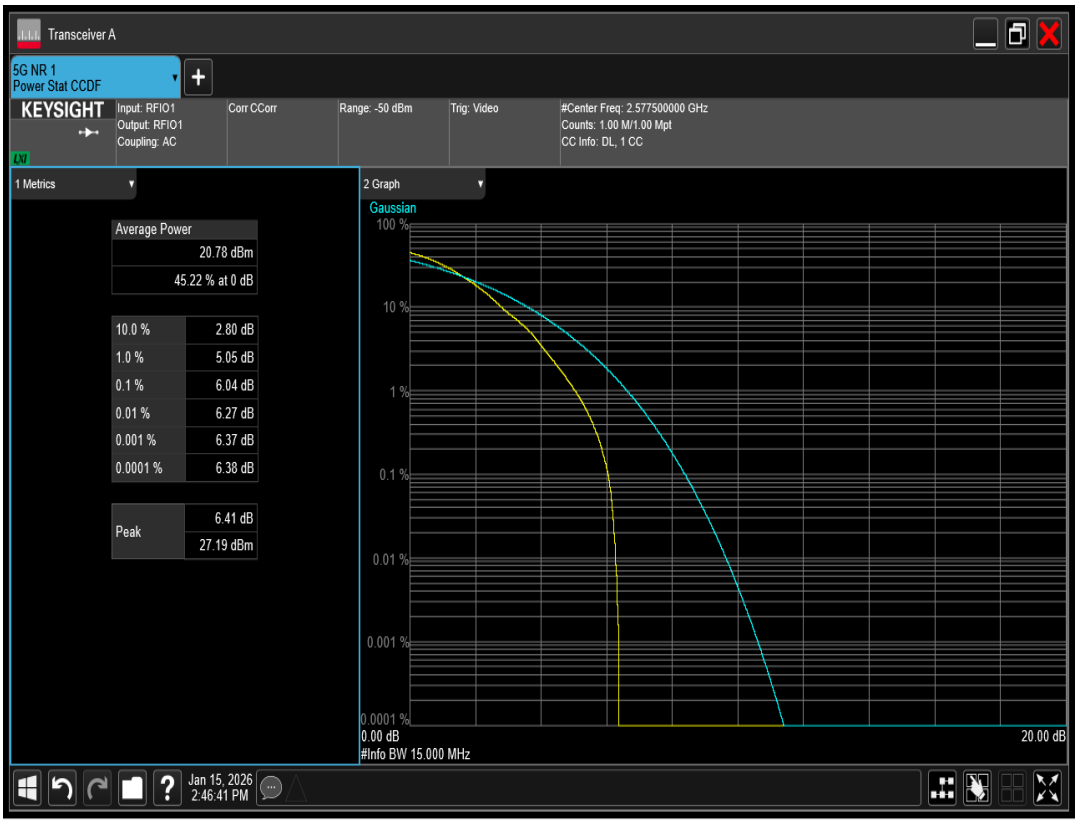
n38 SCS=30kHz DFT_QAM64 BW=10MHz Channel=519000 RB=24@0



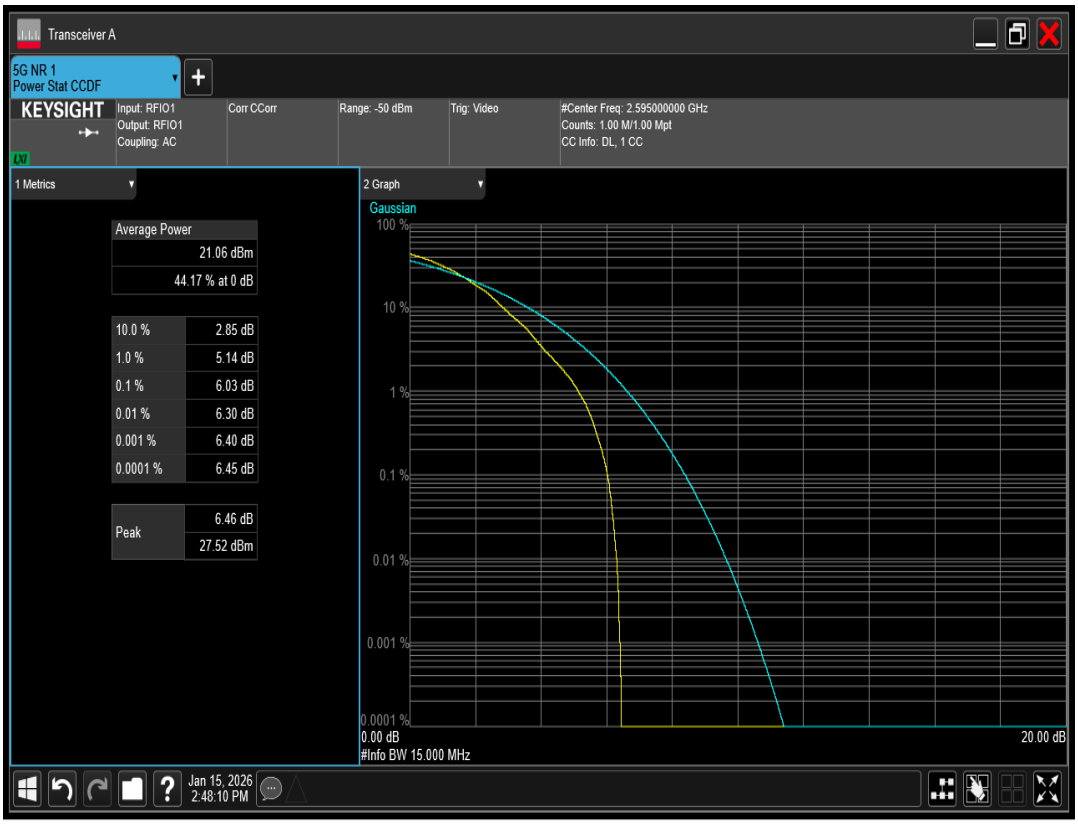
n38 SCS=30kHz DFT_QAM64 BW=10MHz Channel=523000 RB=24@0



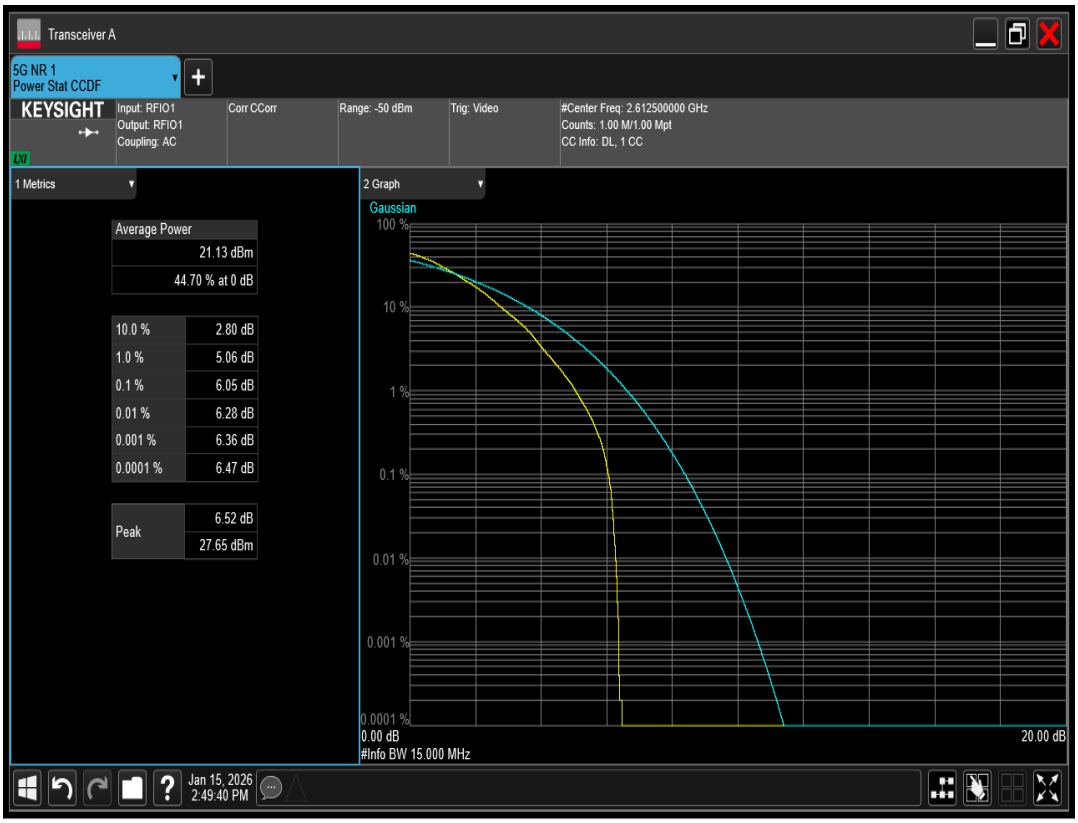
n38 SCS=30kHz DFT_QAM64 BW=15MHz Channel=515500 RB=36@0



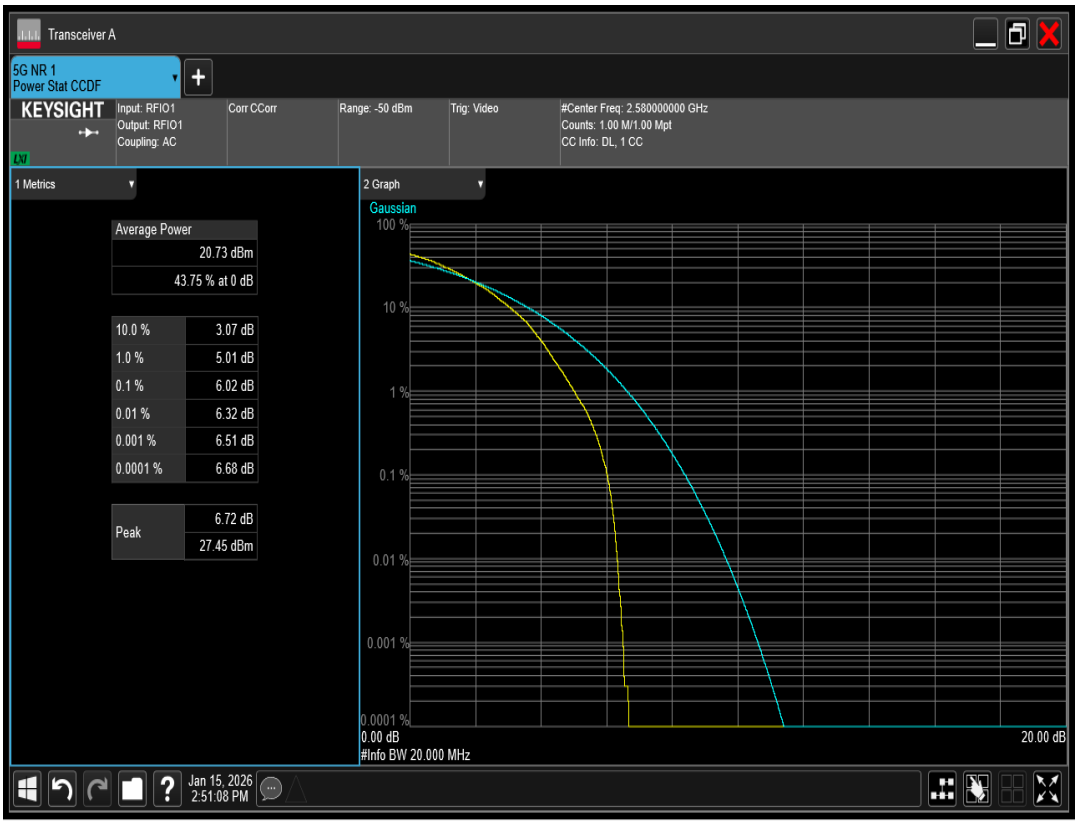
n38 SCS=30kHz DFT_QAM64 BW=15MHz Channel=519000 RB=36@0



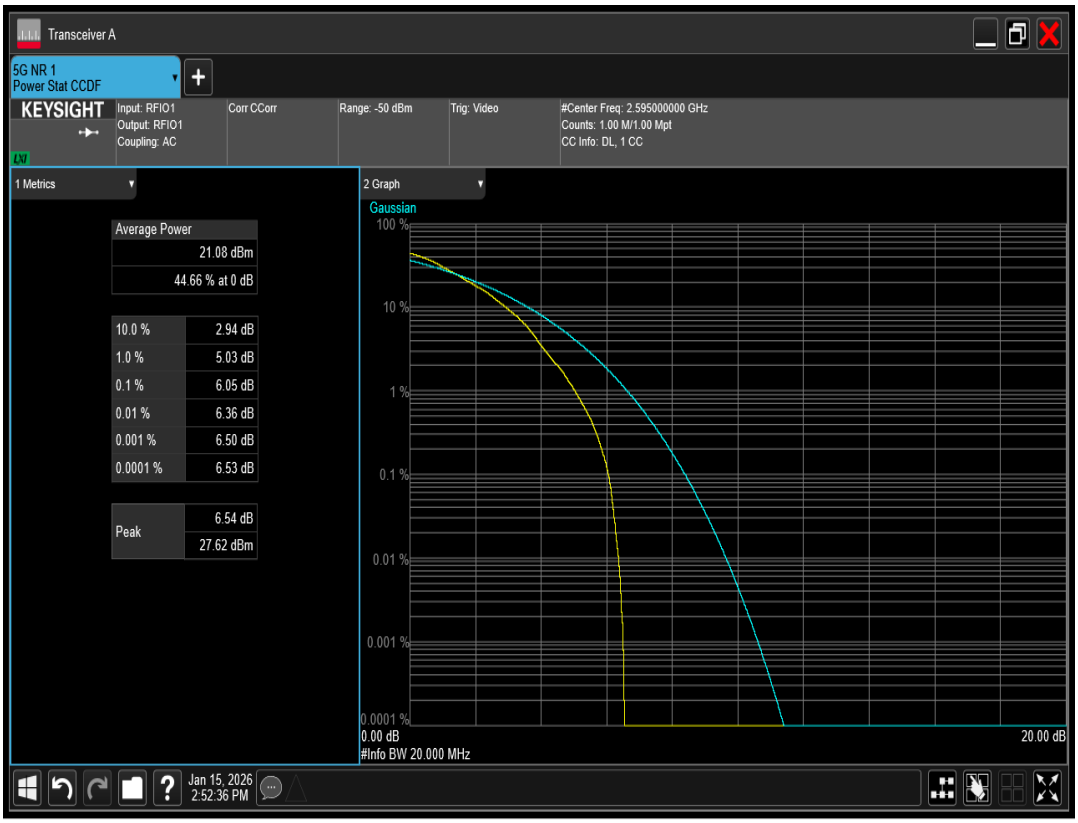
n38 SCS=30kHz DFT_QAM64 BW=15MHz Channel=522500 RB=36@0



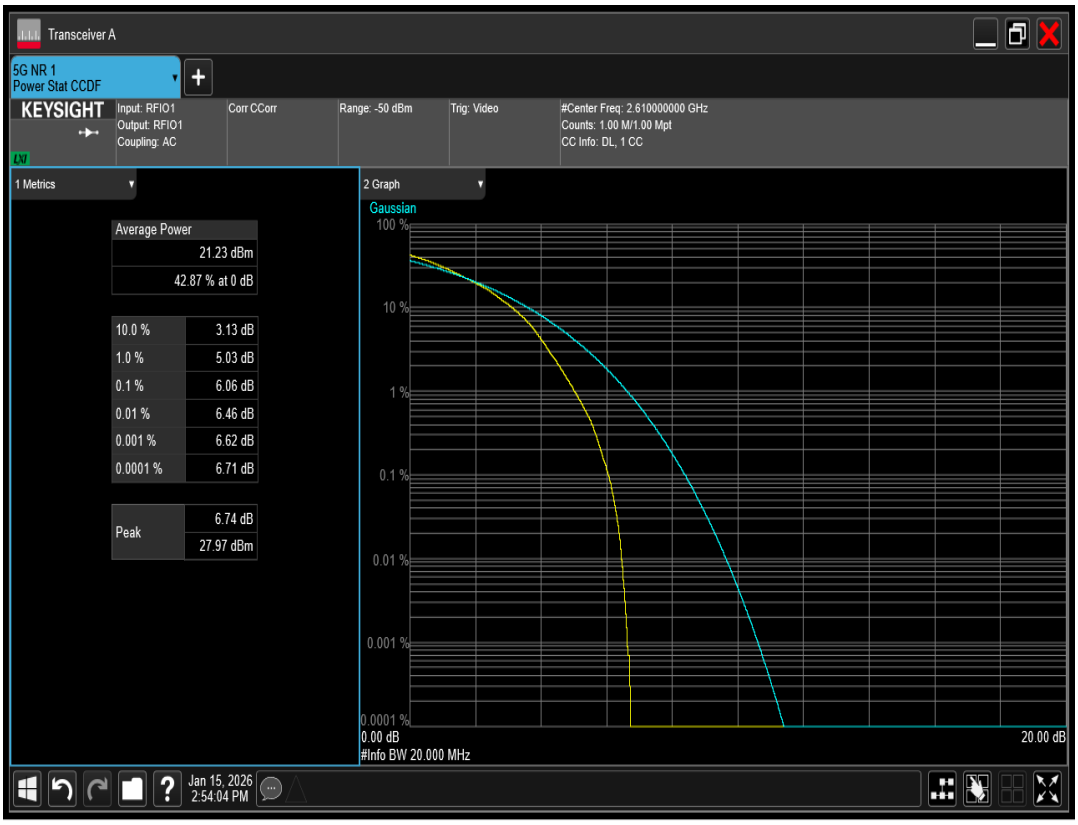
n38 SCS=30kHz DFT_QAM64 BW=20MHz Channel=516000 RB=50@0



n38 SCS=30kHz DFT_QAM64 BW=20MHz Channel=519000 RB=50@0



n38 SCS=30kHz DFT_QAM64 BW=20MHz Channel=522000 RB=50@0



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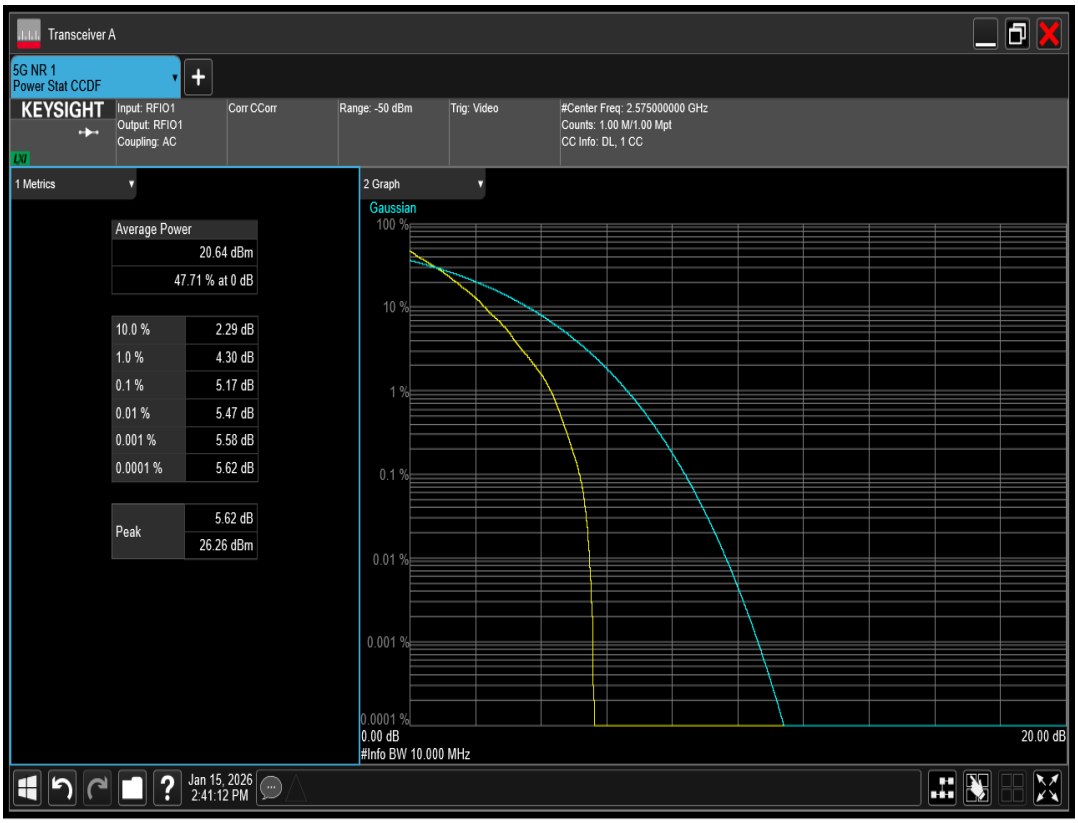
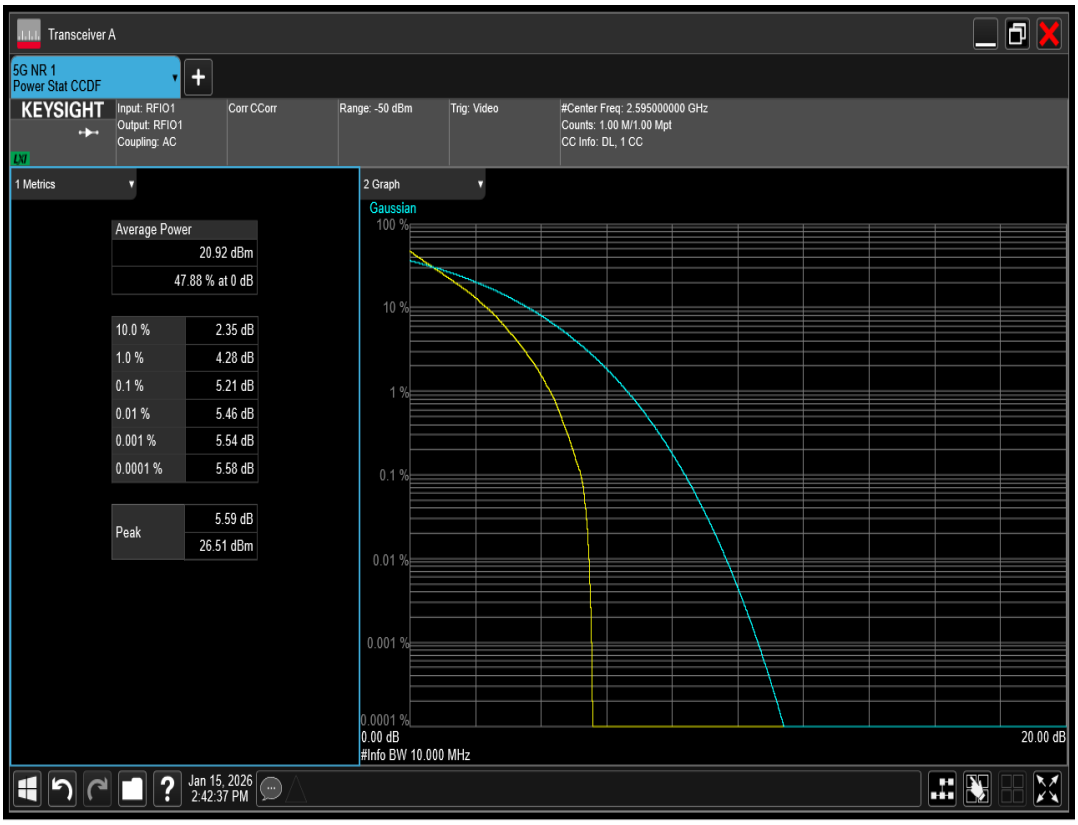
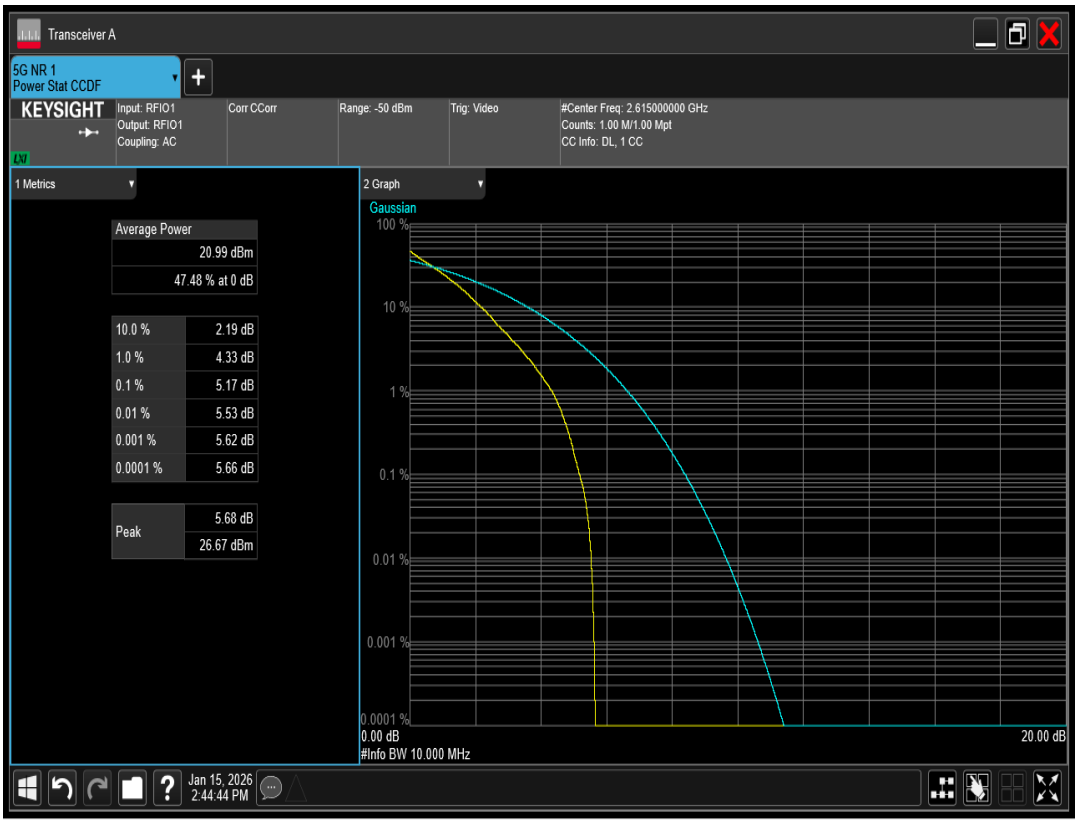


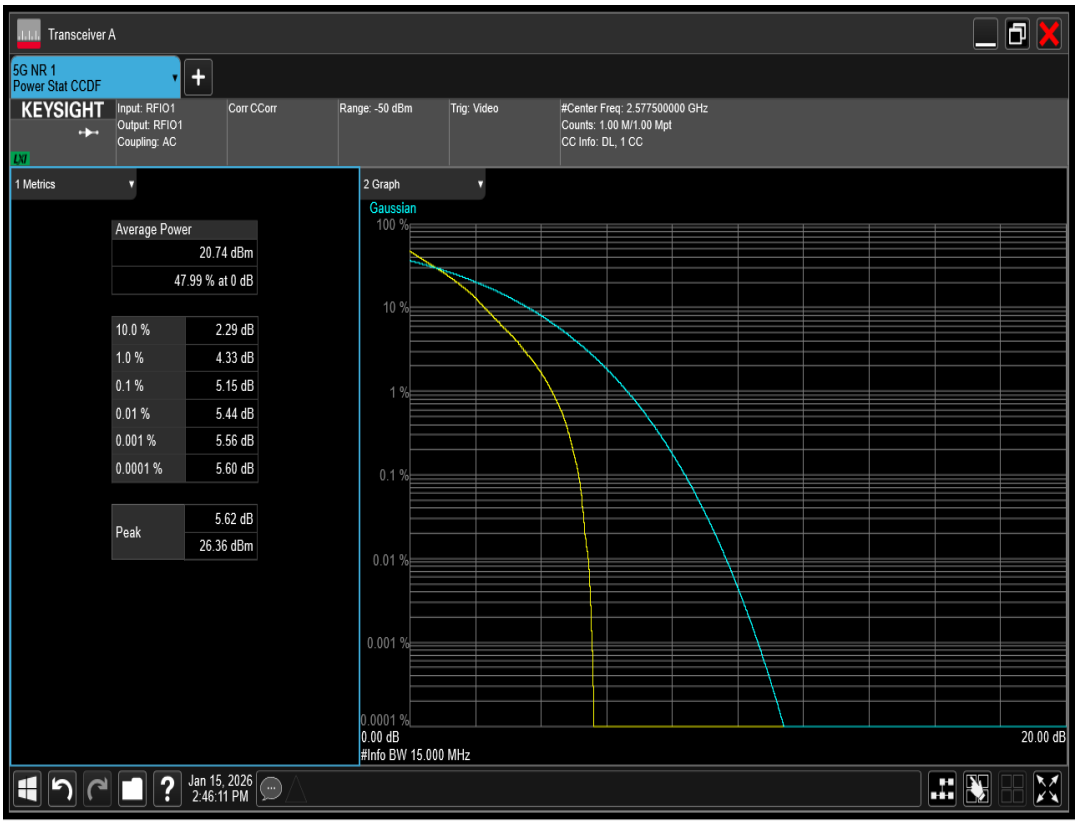
n38 SCS=30kHz DFT_QPSK BW=10MHz Channel=519000 RB=24@0



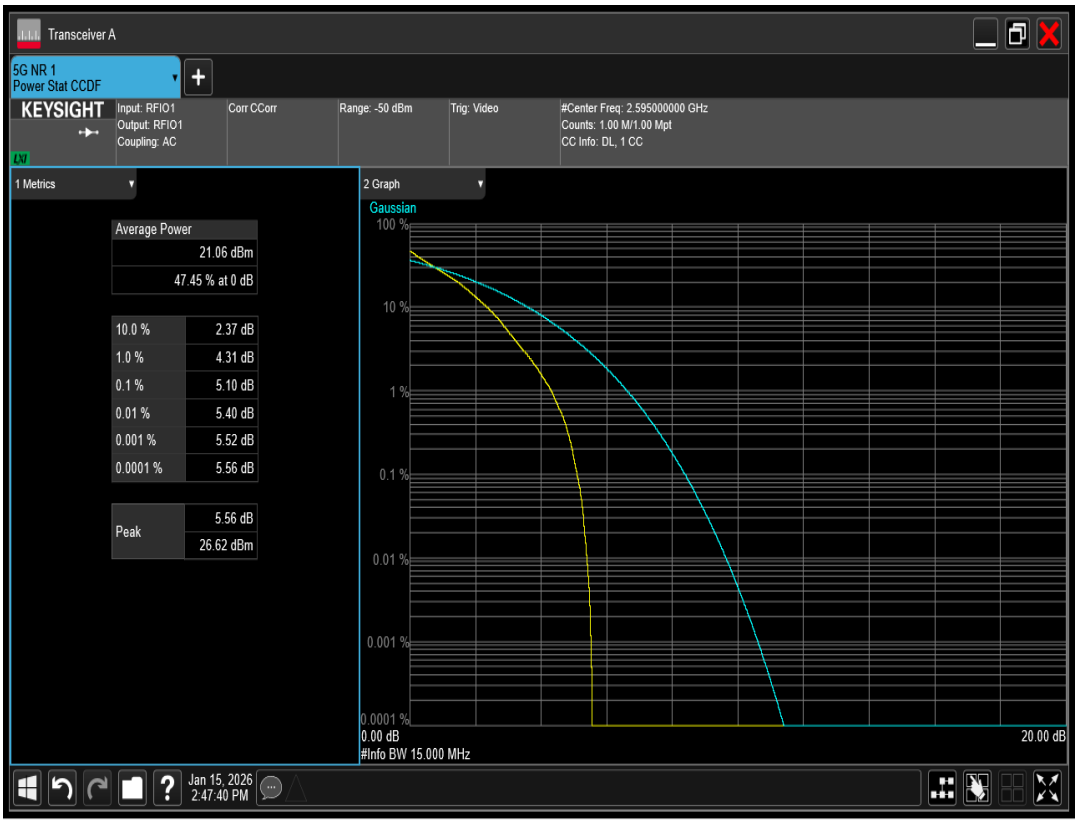
n38 SCS=30kHz DFT_QPSK BW=10MHz Channel=523000 RB=24@0



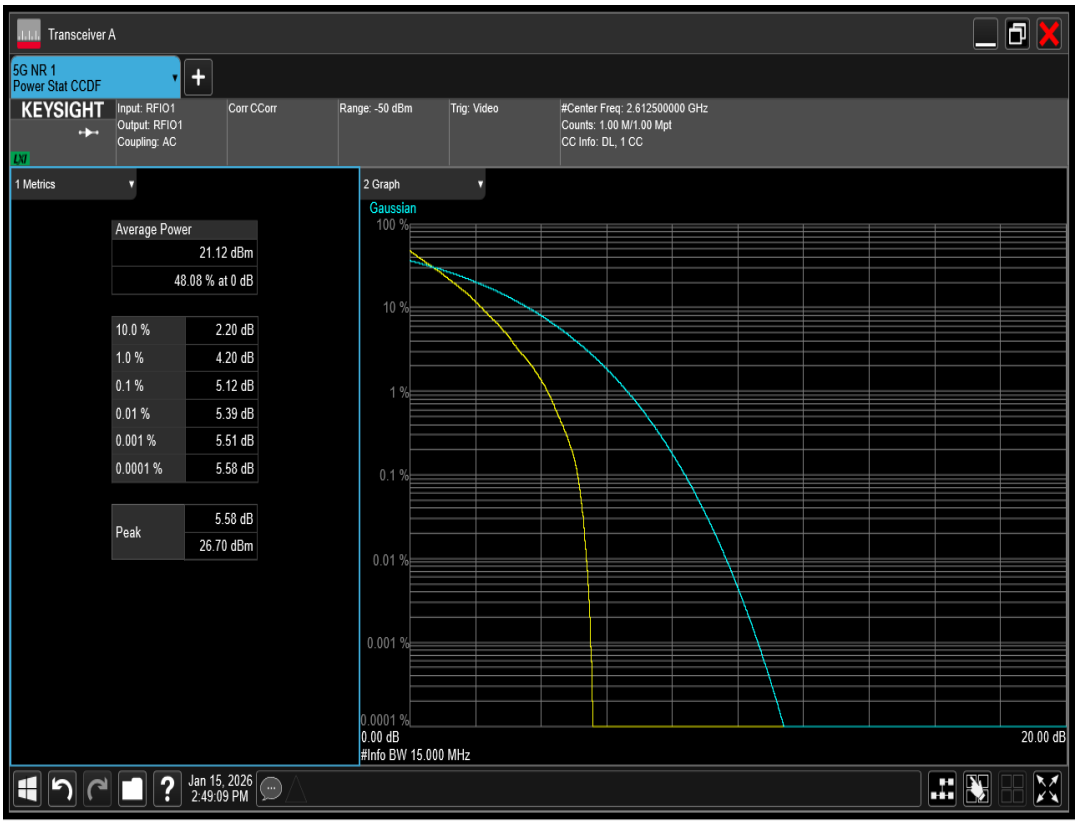
n38 SCS=30kHz DFT_QPSK BW=15MHz Channel=515500 RB=36@0



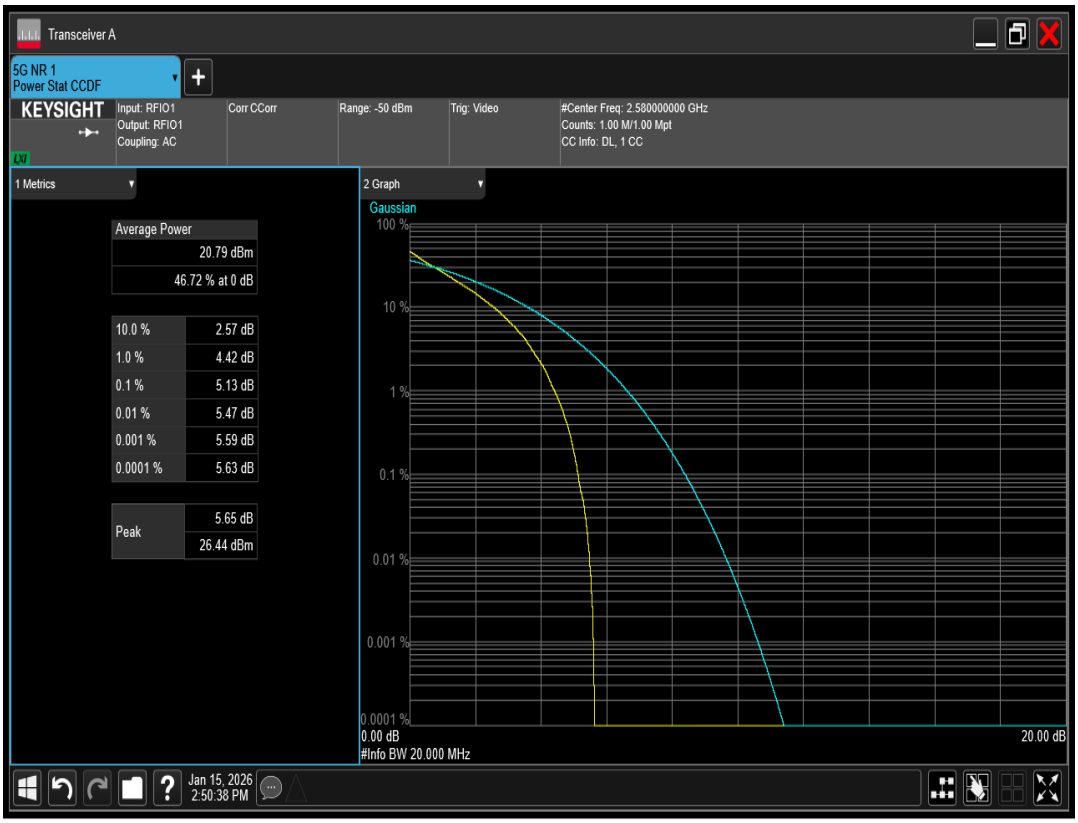
n38 SCS=30kHz DFT_QPSK BW=15MHz Channel=519000 RB=36@0



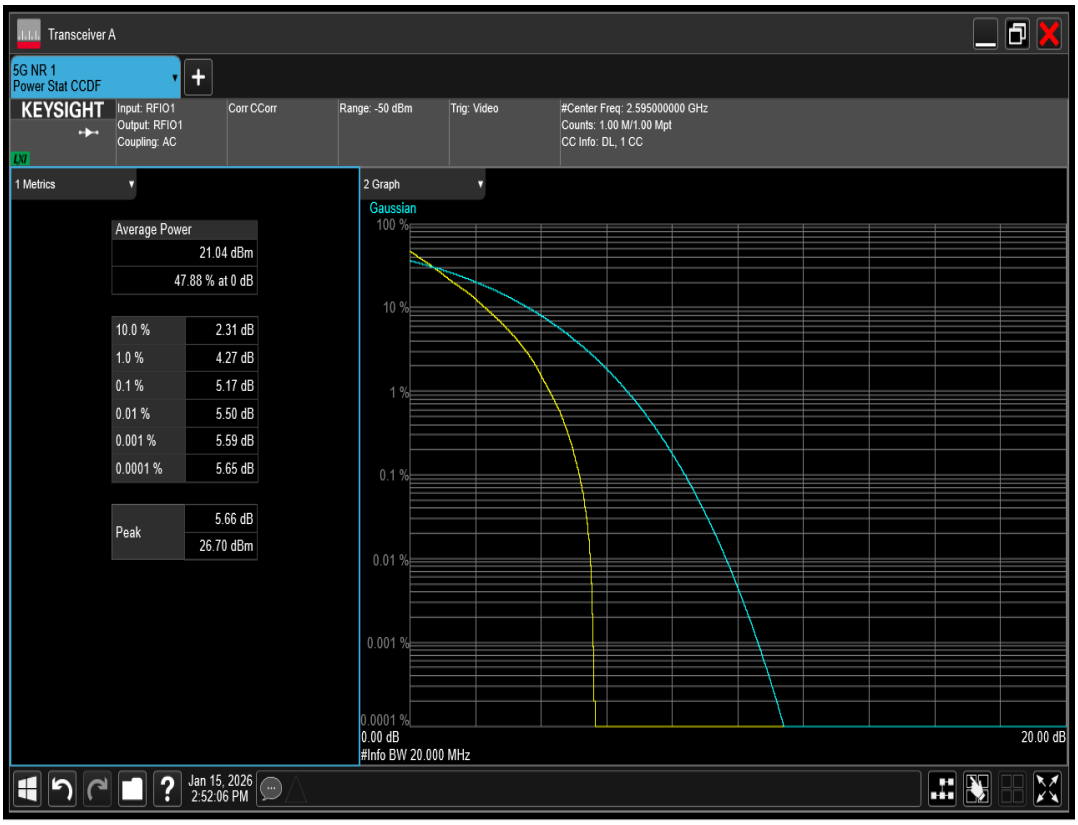
n38 SCS=30kHz DFT_QPSK BW=15MHz Channel=522500 RB=36@0



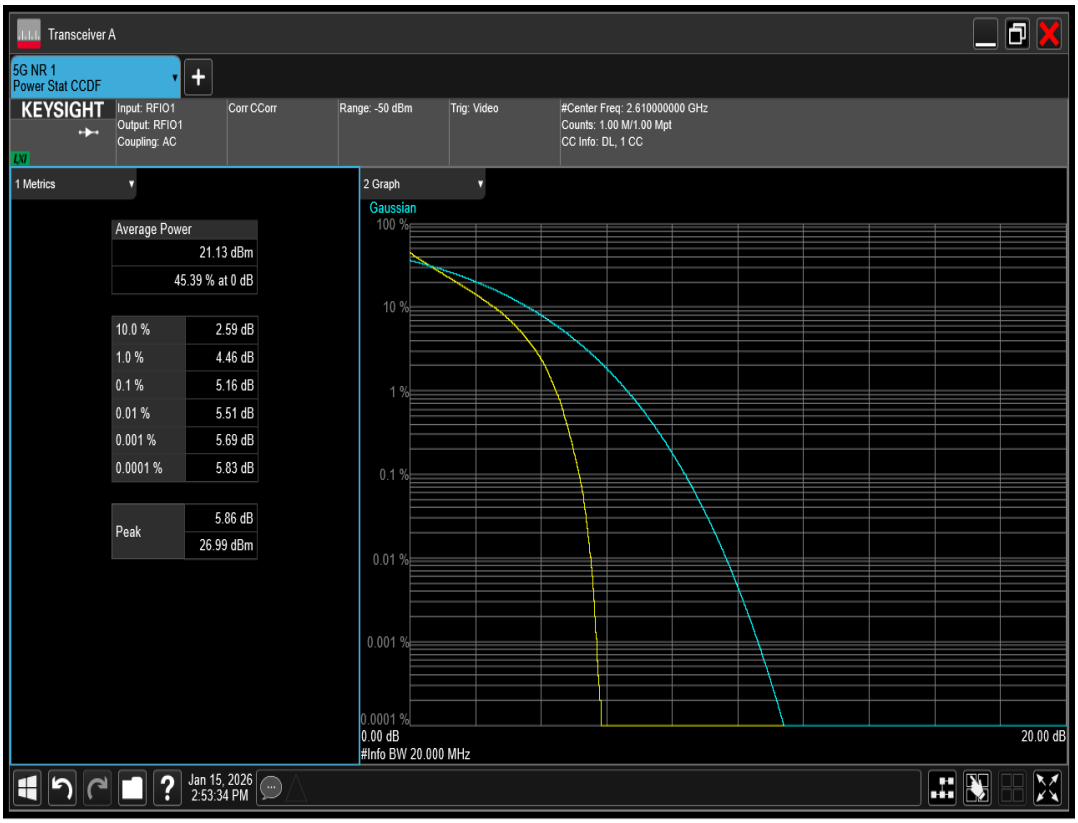
n38 SCS=30kHz DFT_QPSK BW=20MHz Channel=516000 RB=50@0



n38 SCS=30kHz DFT_QPSK BW=20MHz Channel=519000 RB=50@0



n38 SCS=30kHz DFT_QPSK BW=20MHz Channel=522000 RB=50@0



4 Occupied bandwidth for EN-DC

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
n38	30	10	519000	24@0	DFT_BPSK	8.540	8.850	PASS
n38	30	10	519000	24@0	DFT_QPSK	8.570	9.030	PASS
n38	30	10	519000	24@0	DFT_QAM16	8.550	8.890	PASS
n38	30	10	519000	24@0	DFT_QAM64	8.580	8.940	PASS
n38	30	10	519000	24@0	DFT_QAM256	8.570	8.880	PASS
n38	30	15	519000	36@0	DFT_BPSK	13.380	13.310	PASS
n38	30	15	519000	36@0	DFT_QPSK	13.470	13.280	PASS
n38	30	15	519000	36@0	DFT_QAM16	13.460	13.280	PASS
n38	30	15	519000	36@0	DFT_QAM64	13.420	13.250	PASS
n38	30	15	519000	36@0	DFT_QAM256	13.370	13.260	PASS
n38	30	20	519000	50@0	DFT_BPSK	18.030	18.350	PASS
n38	30	20	519000	50@0	DFT_QPSK	18.060	18.270	PASS
n38	30	20	519000	50@0	DFT_QAM16	18.090	18.300	PASS
n38	30	20	519000	50@0	DFT_QAM64	18.030	18.260	PASS
n38	30	20	519000	50@0	DFT_QAM256	18.010	18.250	PASS

n38 SCS=30kHz DFT_BPSK BW=10MHz Channel=519000 RB=24@0

n38 SCS=30kHz DFT_BPSK BW=15MHz Channel=519000 RB=36@0

n38 SCS=30kHz DFT_BPSK BW=20MHz Channel=519000 RB=50@0

n38 SCS=30kHz DFT_QAM16 BW=10MHz Channel=519000 RB=24@0

n38 SCS=30kHz DFT_QAM16 BW=15MHz Channel=519000 RB=36@0

n38 SCS=30kHz DFT_QAM16 BW=20MHz Channel=519000 RB=50@0

n38 SCS=30kHz DFT_QAM256 BW=10MHz Channel=519000 RB=24@0

n38 SCS=30kHz DFT_QAM256 BW=15MHz Channel=519000 RB=36@0

n38 SCS=30kHz DFT_QAM256 BW=20MHz Channel=519000 RB=50@0

n38 SCS=30kHz DFT_QAM64 BW=10MHz Channel=519000 RB=24@0

n38 SCS=30kHz DFT_QAM64 BW=15MHz Channel=519000 RB=36@0

n38 SCS=30kHz DFT_QAM64 BW=20MHz Channel=519000 RB=50@0

n38 SCS=30kHz DFT_QPSK BW=10MHz Channel=519000 RB=24@0

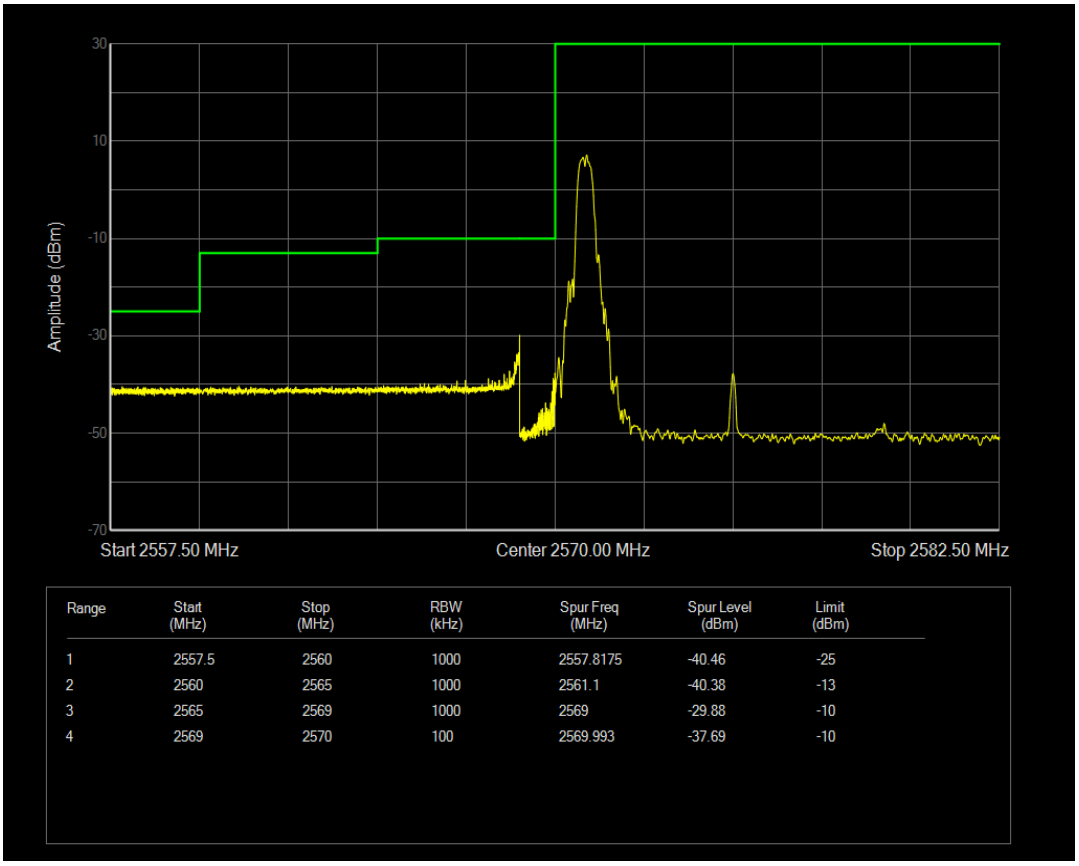
n38 SCS=30kHz DFT_QPSK BW=15MHz Channel=519000 RB=36@0

n38 SCS=30kHz DFT_QPSK BW=20MHz Channel=519000 RB=50@0

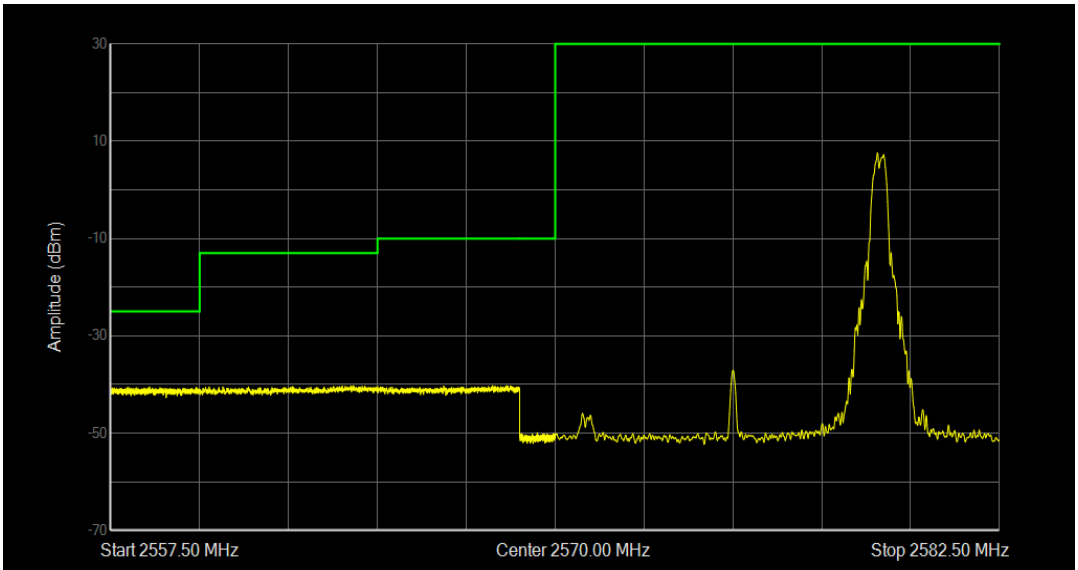
5 Band edge for EN-DC

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n38	30	10	515000	24@0	CP_QPSK	2559.55	-39.24	-25	PASS
n38	30	10	515000	1@0	CP_QPSK	2557.82	-40.46	-25	PASS
n38	30	10	515000	1@23	CP_QPSK	2558.59	-40.51	-25	PASS
n38	30	10	523000	24@0	CP_QPSK	2631.82	-39.93	-25	PASS
n38	30	10	523000	1@0	CP_QPSK	2631.07	-40.09	-25	PASS
n38	30	10	523000	1@23	CP_QPSK	2631.54	-40.13	-25	PASS
n38	30	15	515500	38@0	CP_QPSK	2553.95	-39.85	-25	PASS
n38	30	15	515500	1@0	CP_QPSK	2553.03	-40.46	-25	PASS
n38	30	15	515500	1@37	CP_QPSK	2552.65	-40.43	-25	PASS
n38	30	15	522500	38@0	CP_QPSK	2638.12	-40.03	-25	PASS
n38	30	15	522500	1@0	CP_QPSK	2635.11	-40.25	-25	PASS
n38	30	15	522500	1@37	CP_QPSK	2638.35	-40.09	-25	PASS
n38	30	20	516000	51@0	CP_QPSK	2549.62	-39.88	-25	PASS
n38	30	20	516000	1@0	CP_QPSK	2548.30	-40.49	-25	PASS
n38	30	20	516000	1@50	CP_QPSK	2546.20	-40.54	-25	PASS
n38	30	20	522000	51@0	CP_QPSK	2641.21	-39.79	-25	PASS
n38	30	20	522000	1@0	CP_QPSK	2643.61	-40.16	-25	PASS
n38	30	20	522000	1@50	CP_QPSK	2641.10	-40.19	-25	PASS

n38 SCS=30kHz CP_QPSK BW=10MHz Channel=515000 RB=1@0

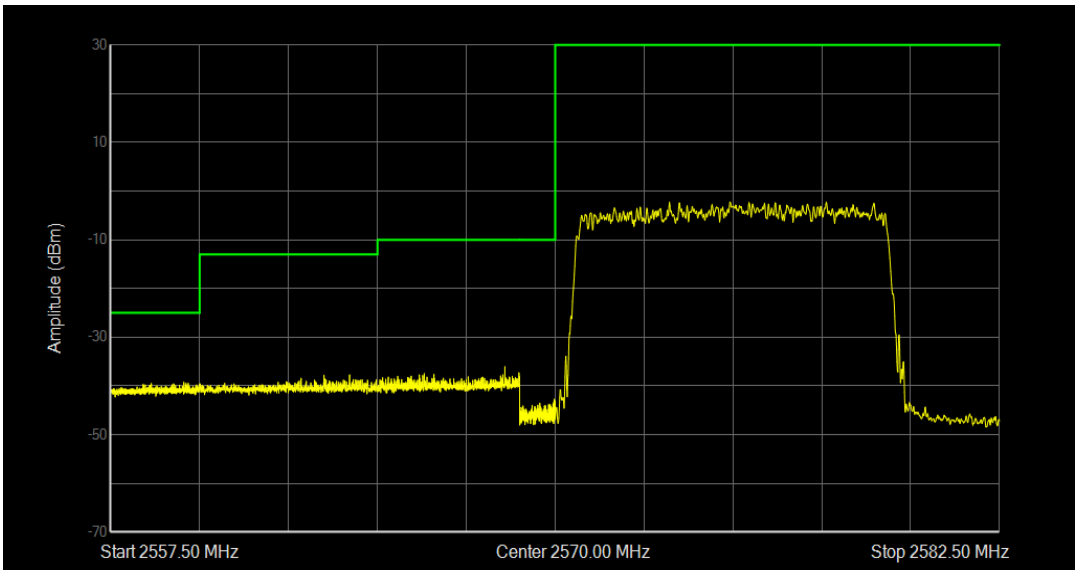


n38 SCS=30kHz CP_QPSK BW=10MHz Channel=515000 RB=1@23



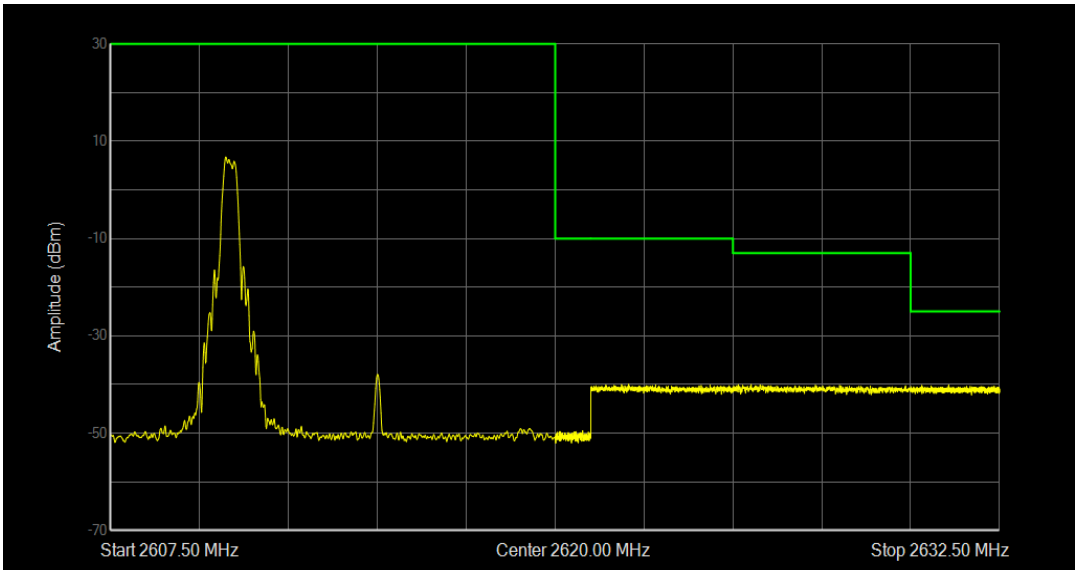
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2557.5	2560	1000	2558.59	-40.51	-25
2	2560	2565	1000	2564.33	-40.28	-13
3	2565	2569	1000	2568.24	-40.24	-10
4	2569	2570	100	2569.498	-49.91	-10

n38 SCS=30kHz CP_QPSK BW=10MHz Channel=515000 RB=24@0



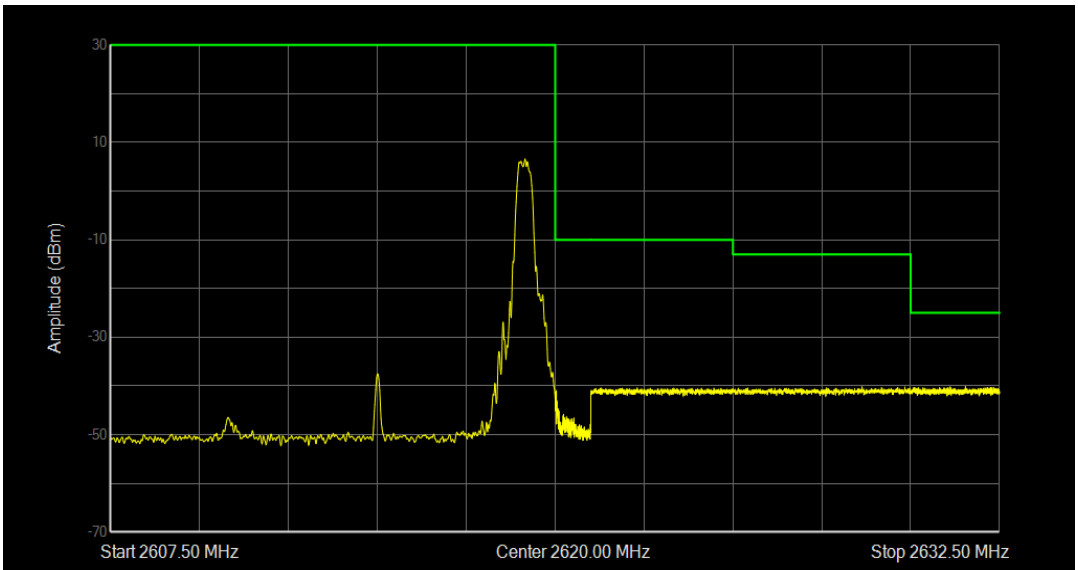
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2557.5	2560	1000	2559.5525	-39.24	-25
2	2560	2565	1000	2564.215	-37.73	-13
3	2565	2569	1000	2568.584	-36.06	-10
4	2569	2570	200	2569.968	-42.75	-10

n38 SCS=30kHz CP_QPSK BW=10MHz Channel=523000 RB=1@0



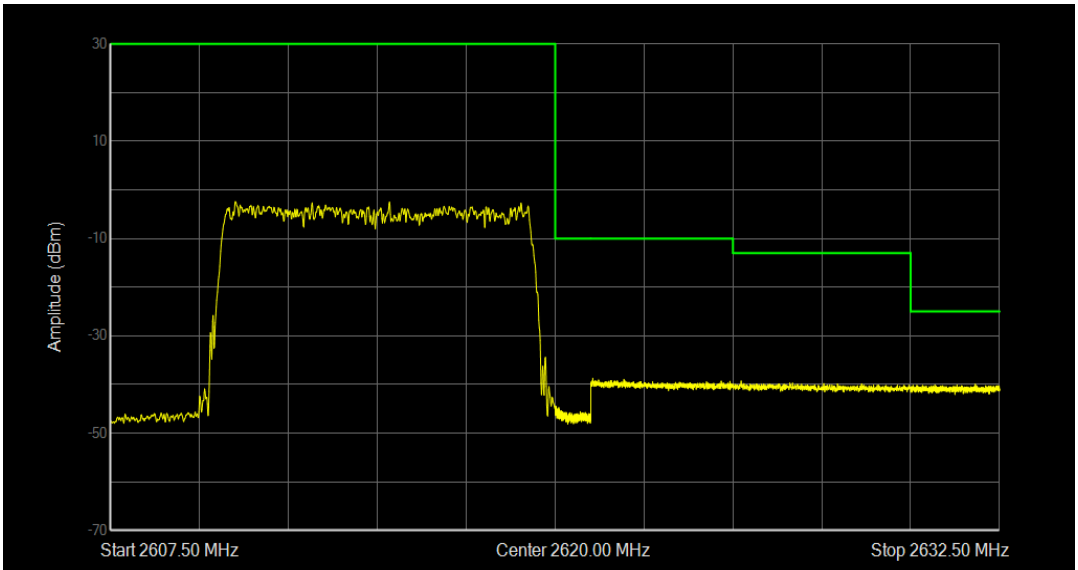
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2620	2621	100	2620.771	-49.49	-10
3	2621	2625	1000	2622.064	-39.97	-10
4	2625	2630	1000	2625.51	-40.02	-13
5	2630	2632.5	1000	2631.07	-40.09	-25

n38 SCS=30kHz CP_QPSK BW=10MHz Channel=523000 RB=1@23



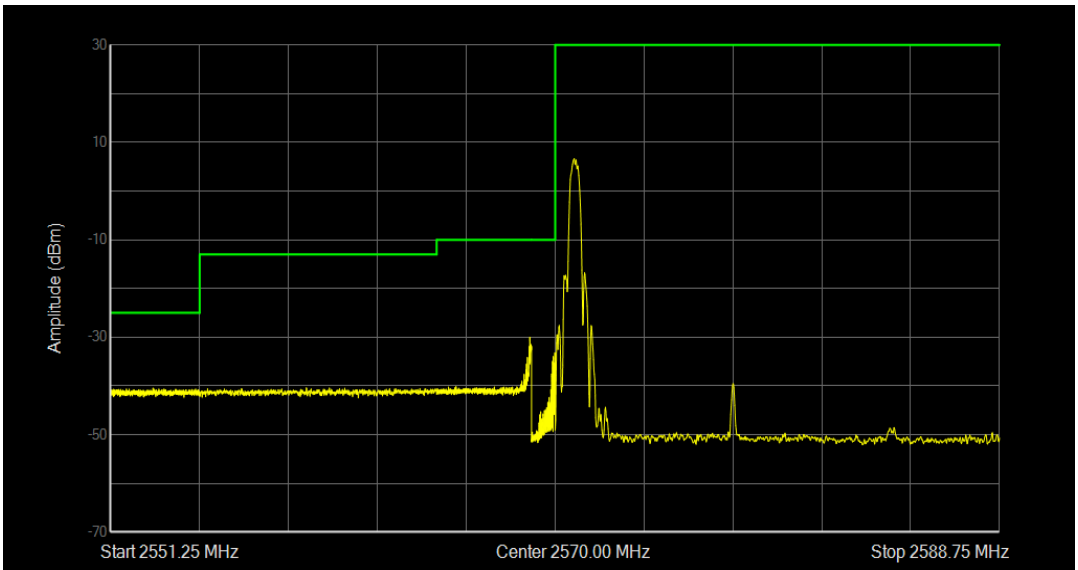
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2620	2621	100	2620.031	-40.95	-10
3	2621	2625	1000	2622.308	-40.42	-10
4	2625	2630	1000	2628.63	-40.18	-13
5	2630	2632.5	1000	2631.5425	-40.13	-25

n38 SCS=30kHz CP_QPSK BW=10MHz Channel=523000 RB=24@0



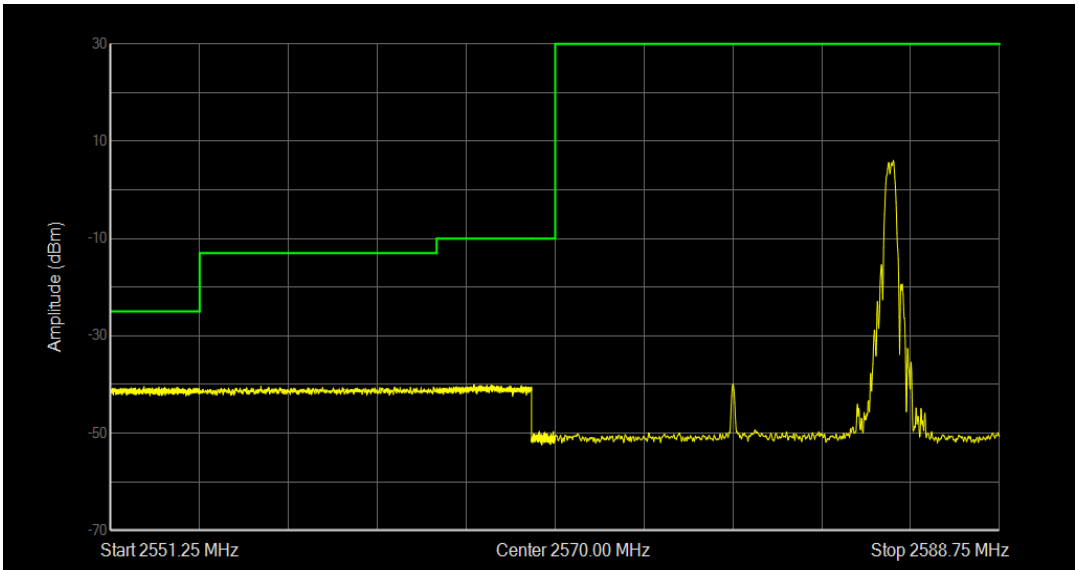
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2620	2621	200	2620.008	-44.43	-10
3	2621	2625	1000	2621.056	-38.74	-10
4	2625	2630	1000	2625.23	-39.28	-13
5	2630	2632.5	1000	2631.815	-39.93	-25

n38 SCS=30kHz CP_QPSK BW=15MHz Channel=515500 RB=1@0



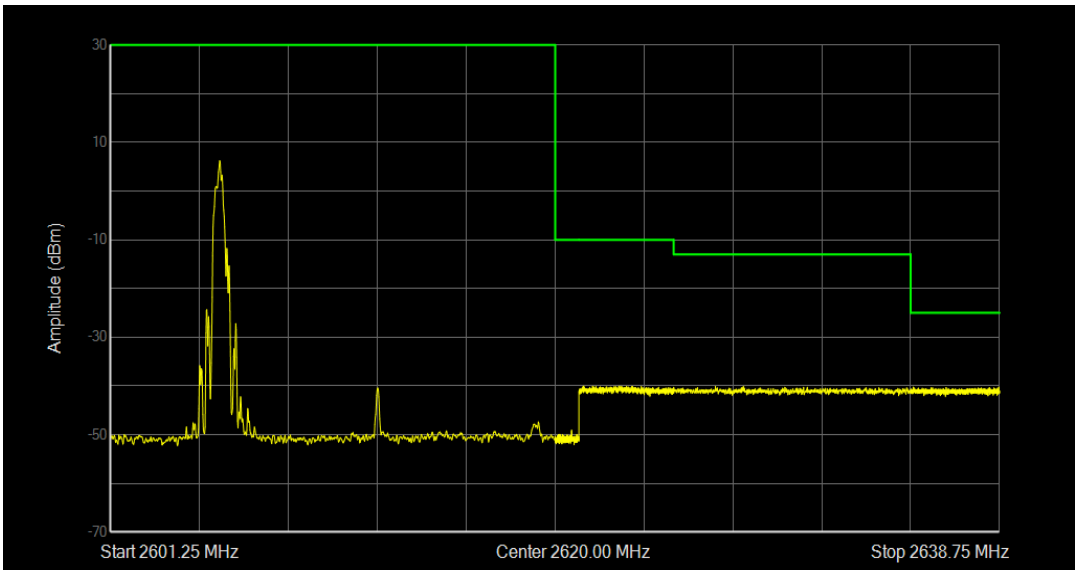
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2551.25	2555	1000	2553.0275	-40.46	-25
2	2555	2565	1000	2559.5	-40.41	-13
3	2565	2569	1000	2568.928	-30	-10
4	2569	2570	100	2569.986	-33.18	-10

n38 SCS=30kHz CP_QPSK BW=15MHz Channel=515500 RB=1@37



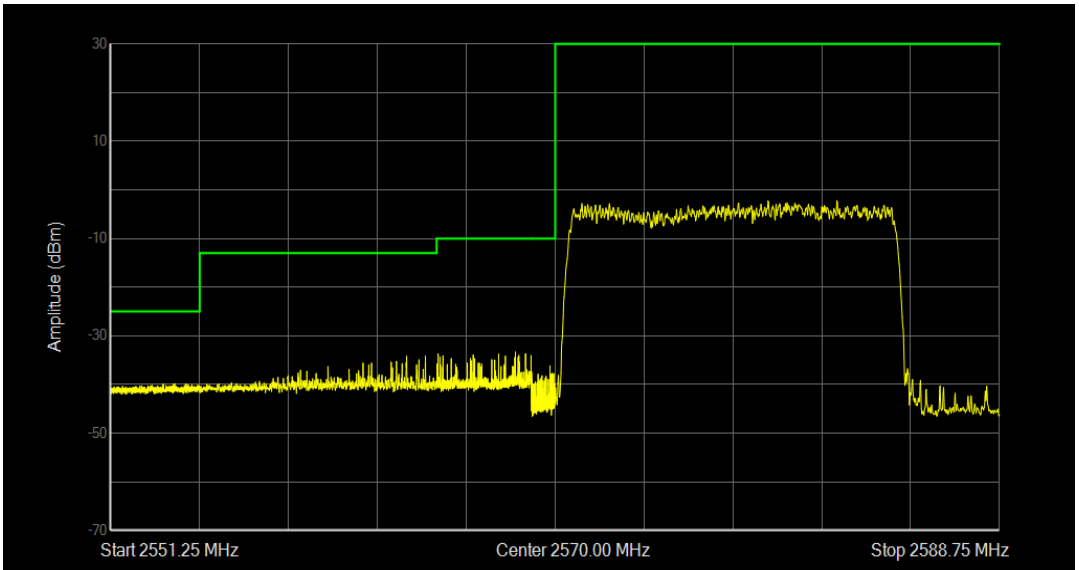
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2551.25	2555	1000	2552.64875	-40.43	-25
2	2555	2565	1000	2557.58	-40.38	-13
3	2565	2569	1000	2566.58	-40.12	-10
4	2569	2570	100	2569.329	-49.66	-10

n38 SCS=30kHz CP_QPSK BW=15MHz Channel=522500 RB=1@0



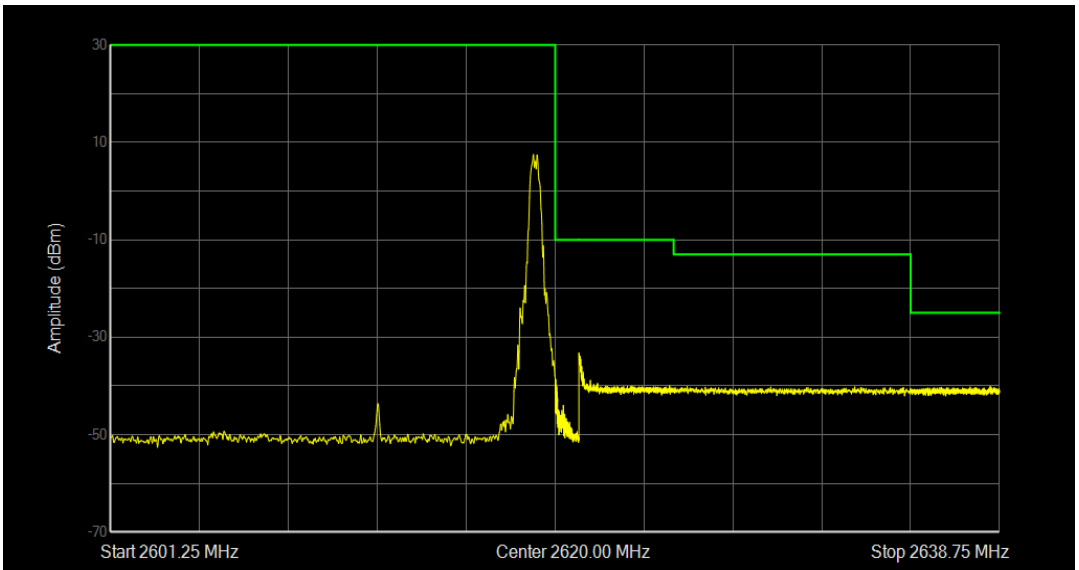
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2620	2621	100	2620.69	-49.12	-10
3	2621	2625	1000	2621.196	-40.05	-10
4	2625	2635	1000	2627.94	-40.1	-13
5	2635	2638.75	1000	2635.1125	-40.25	-25

n38 SCS=30kHz CP_QPSK BW=15MHz Channel=515500 RB=38@0



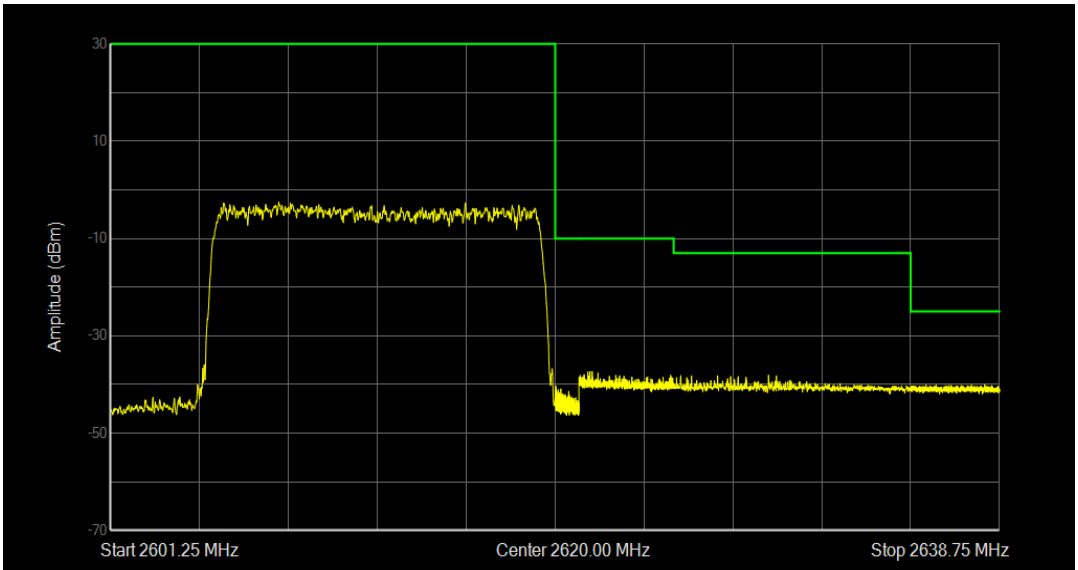
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2551.25	2555	1000	2553.94625	-39.85	-25
2	2555	2565	1000	2564.52	-34.19	-13
3	2565	2569	1000	2568.32	-33.32	-10
4	2569	2570	300	2569.778	-36.15	-10

n38 SCS=30kHz CP_QPSK BW=15MHz Channel=522500 RB=1@37



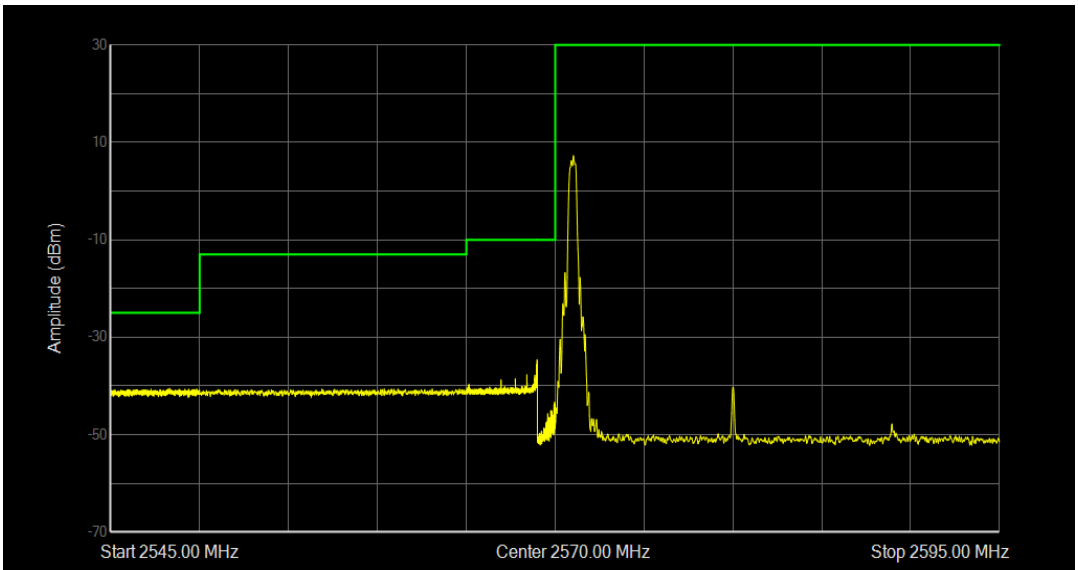
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2620	2621	100	2620.02	-38.68	-10
3	2621	2625	1000	2621.008	-33.69	-10
4	2625	2635	1000	2625.57	-40.14	-13
5	2635	2638.75	1000	2638.3525	-40.09	-25

n38 SCS=30kHz CP_QPSK BW=15MHz Channel=522500 RB=38@0



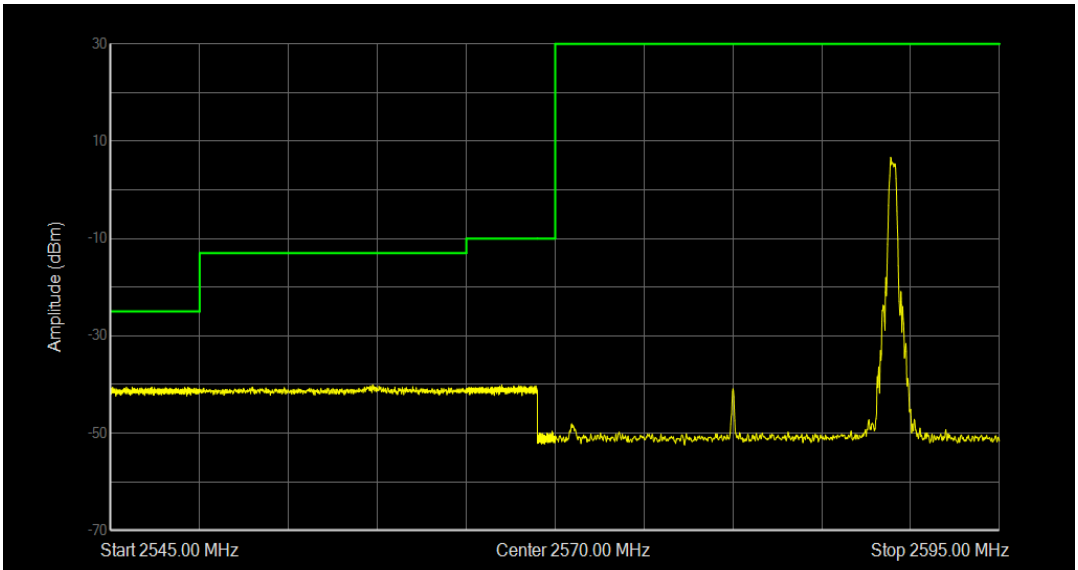
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2620	2621	300	2620.022	-40.28	-10
3	2621	2625	1000	2621.464	-37.32	-10
4	2625	2635	1000	2629	-38.1	-13
5	2635	2638.75	1000	2638.12375	-40.03	-25

n38 SCS=30kHz CP_QPSK BW=20MHz Channel=516000 RB=1@0



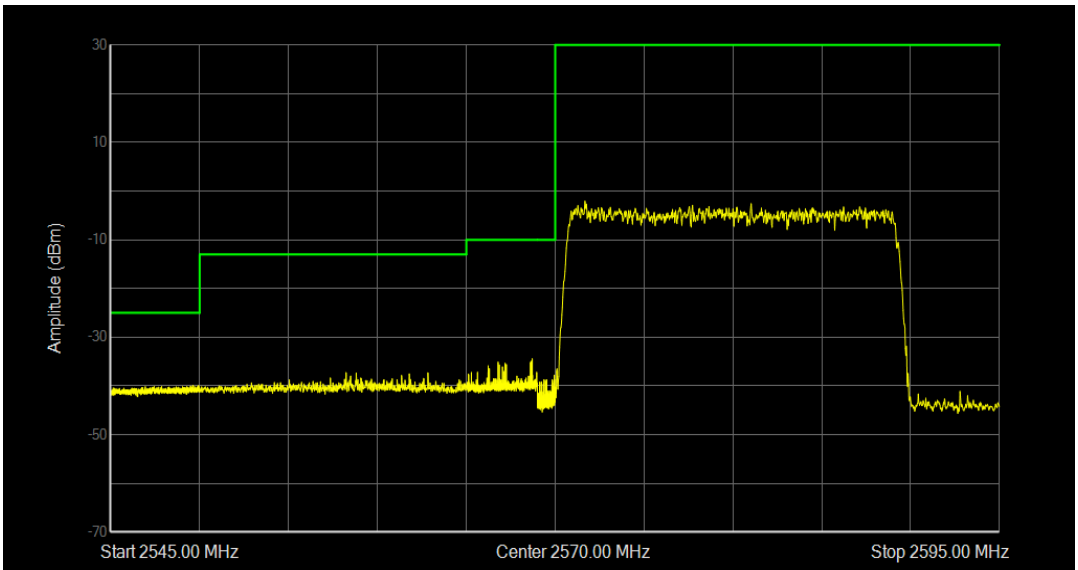
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2545	2550	1000	2548.3	-40.49	-25
2	2550	2565	1000	2563.08	-40.63	-13
3	2565	2569	1000	2568.98	-34.65	-10
4	2569	2570	100	2569.971	-43.34	-10

n38 SCS=30kHz CP_QPSK BW=20MHz Channel=516000 RB=1@50



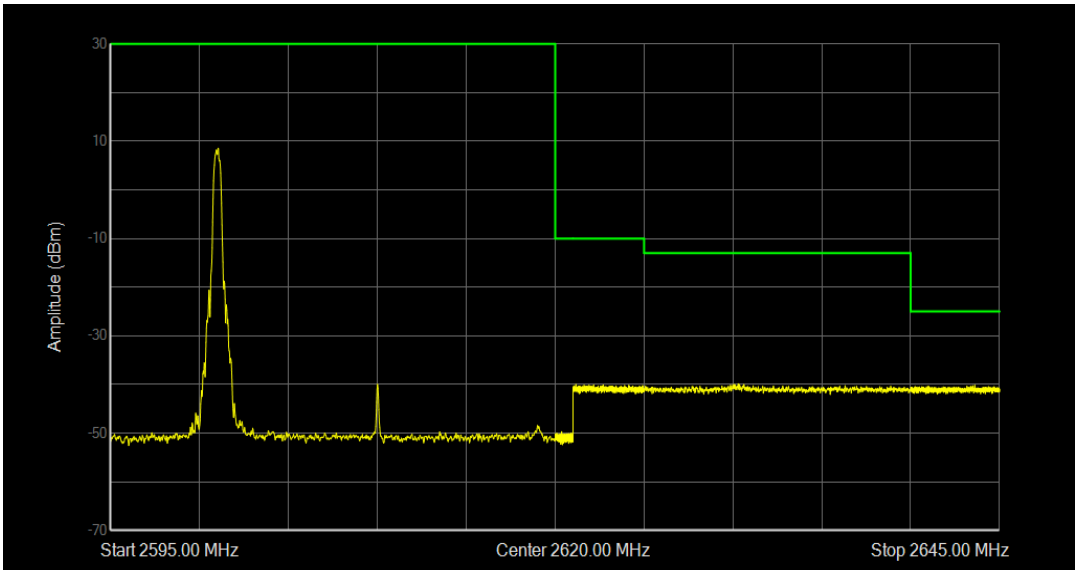
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2545	2550	1000	2546.2	-40.54	-25
2	2550	2565	1000	2559.735	-40.07	-13
3	2565	2569	1000	2566.996	-40.09	-10
4	2569	2570	100	2569.824	-49.63	-10

n38 SCS=30kHz CP_QPSK BW=20MHz Channel=516000 RB=51@0



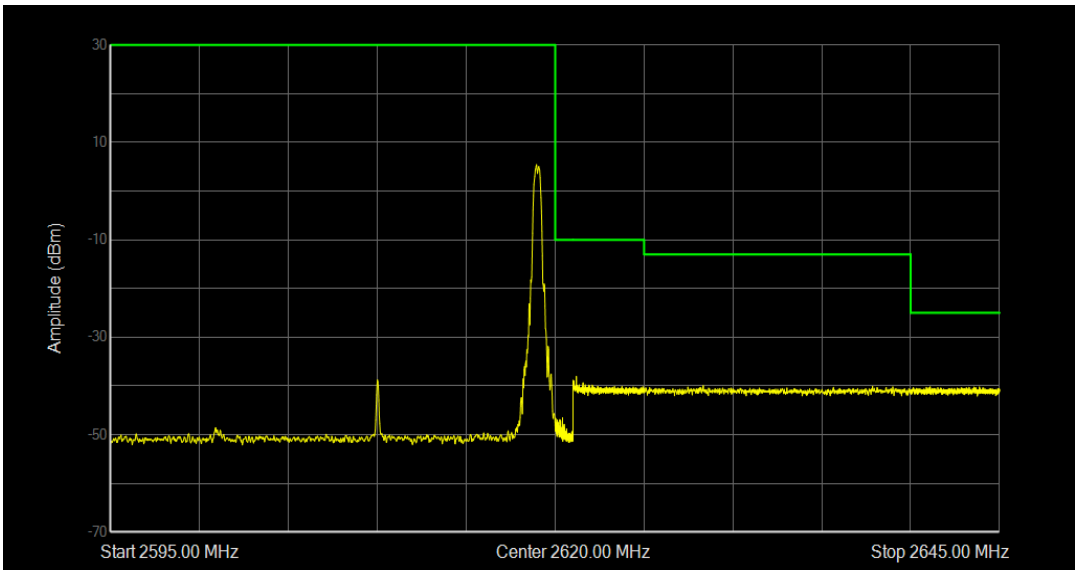
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	2545	2550	1000	2549.62	-39.88	-25
2	2550	2565	1000	2558.235	-37.27	-13
3	2565	2569	1000	2568.708	-34.43	-10
4	2569	2570	430	2569.945	-37.8	-10

n38 SCS=30kHz CP_QPSK BW=20MHz Channel=522000 RB=1@0



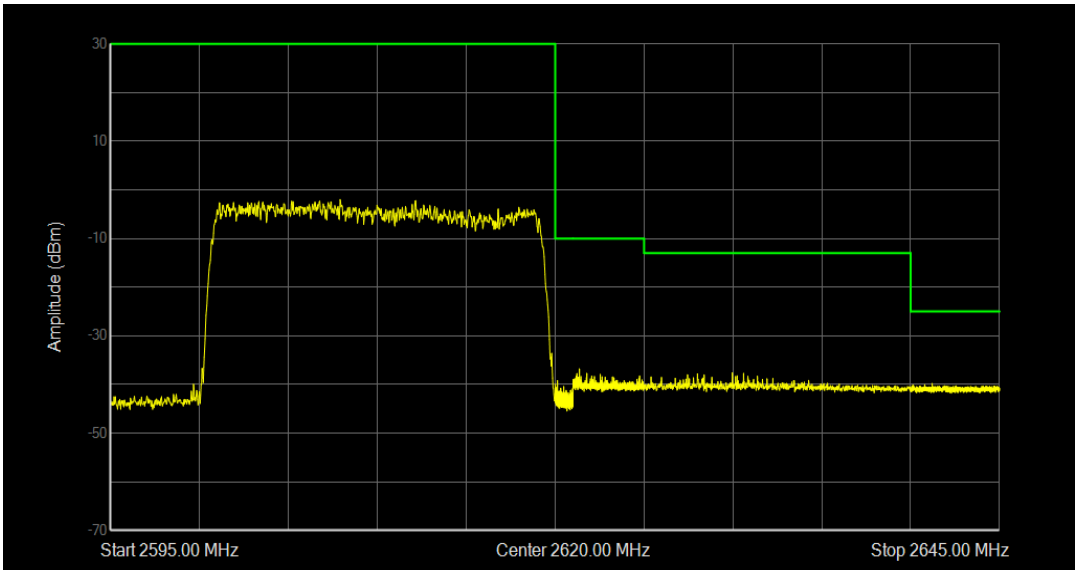
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2620	2621	100	2620.36	-49.69	-10
3	2621	2625	1000	2621.16	-39.99	-10
4	2625	2640	1000	2630.295	-39.85	-13
5	2640	2645	1000	2643.605	-40.16	-25

n38 SCS=30kHz CP_QPSK BW=20MHz Channel=522000 RB=1@50



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2620	2621	100	2620.411	-46.53	-10
3	2621	2625	1000	2621.188	-38.04	-10
4	2625	2640	1000	2628.33	-39.95	-13
5	2640	2645	1000	2641.095	-40.19	-25

n38 SCS=30kHz CP_QPSK BW=20MHz Channel=522000 RB=51@0

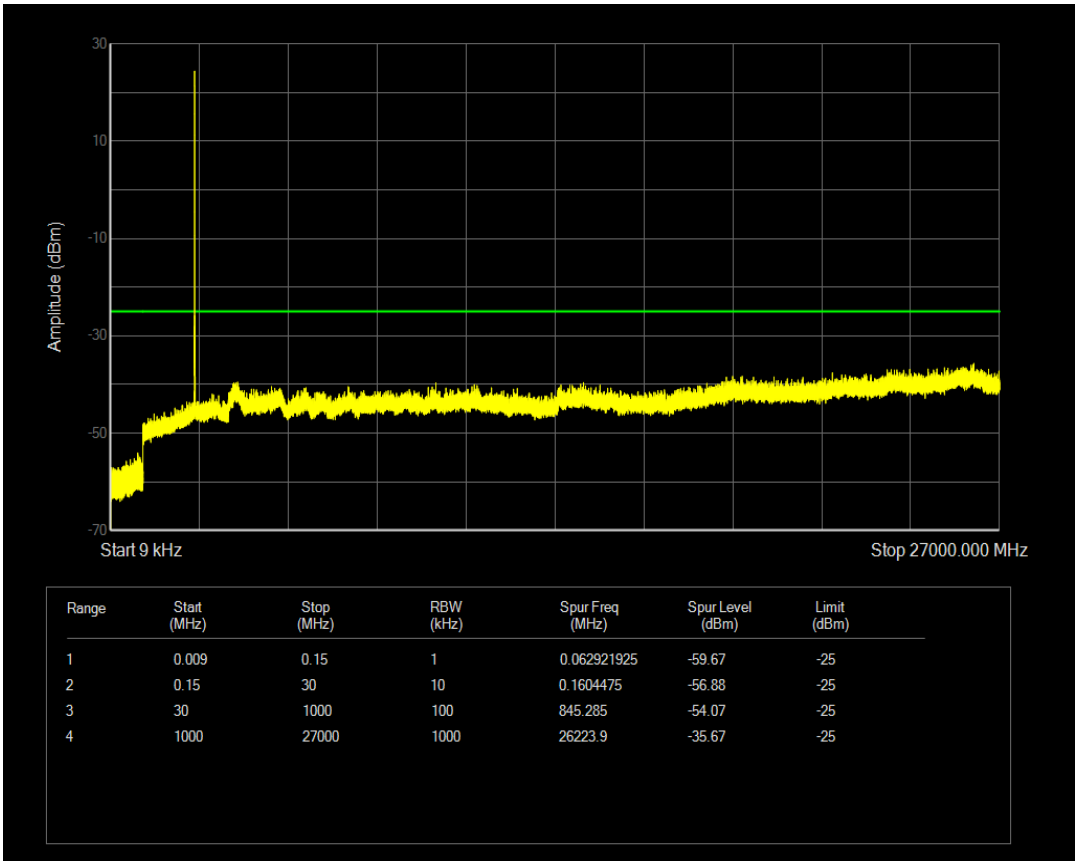


Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
2	2620	2621	430	2620.124	-39.18	-10
3	2621	2625	1000	2621.36	-36.8	-10
4	2625	2640	1000	2629.965	-37.6	-13
5	2640	2645	1000	2641.205	-39.79	-25

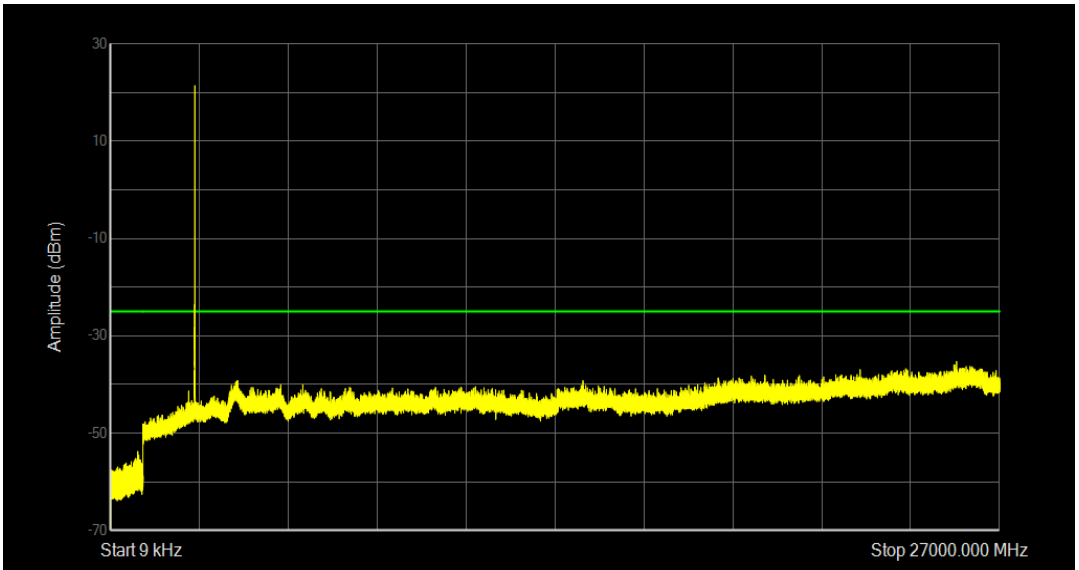
6 Out-of-band emissions for EN-DC

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Verdict
n38	30	10	515000	24@0	CP_QPSK	26199.20	-35.30	-25	PASS
n38	30	10	515000	1@0	CP_QPSK	26223.90	-35.67	-25	PASS
n38	30	10	515000	1@23	CP_QPSK	25696.10	-35.26	-25	PASS
n38	30	10	523000	24@0	CP_QPSK	26309.70	-35.56	-25	PASS
n38	30	10	523000	1@0	CP_QPSK	25815.05	-35.24	-25	PASS
n38	30	10	523000	1@23	CP_QPSK	26084.80	-35.90	-25	PASS
n38	30	15	515500	38@0	CP_QPSK	25763.70	-35.80	-25	PASS
n38	30	15	515500	1@0	CP_QPSK	26108.20	-35.55	-25	PASS
n38	30	15	515500	1@37	CP_QPSK	25764.35	-35.52	-25	PASS
n38	30	15	522500	38@0	CP_QPSK	26314.25	-35.77	-25	PASS
n38	30	15	522500	1@0	CP_QPSK	25792.30	-34.79	-25	PASS
n38	30	15	522500	1@37	CP_QPSK	25800.75	-35.60	-25	PASS
n38	30	20	516000	51@0	CP_QPSK	25856.00	-35.73	-25	PASS
n38	30	20	516000	1@0	CP_QPSK	25753.30	-35.27	-25	PASS
n38	30	20	516000	1@50	CP_QPSK	26205.05	-35.59	-25	PASS
n38	30	20	522000	51@0	CP_QPSK	25930.10	-35.29	-25	PASS
n38	30	20	522000	1@0	CP_QPSK	26262.90	-34.41	-25	PASS
n38	30	20	522000	1@50	CP_QPSK	26173.20	-35.84	-25	PASS

n38 SCS=30kHz CP_QPSK BW=10MHz Channel=515000 RB=1@0

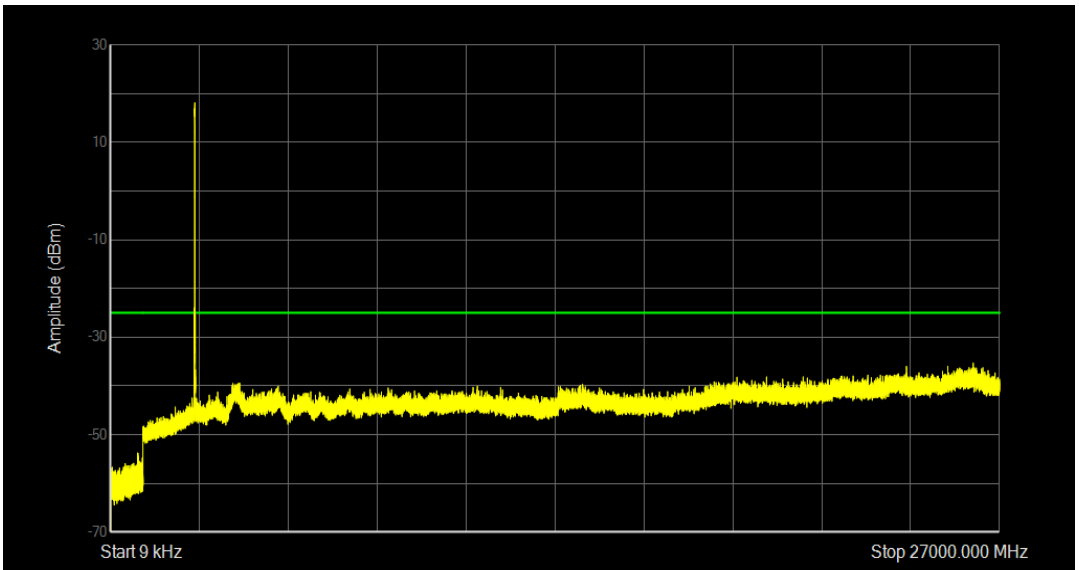


n38 SCS=30kHz CP_QPSK BW=10MHz Channel=515000 RB=1@23



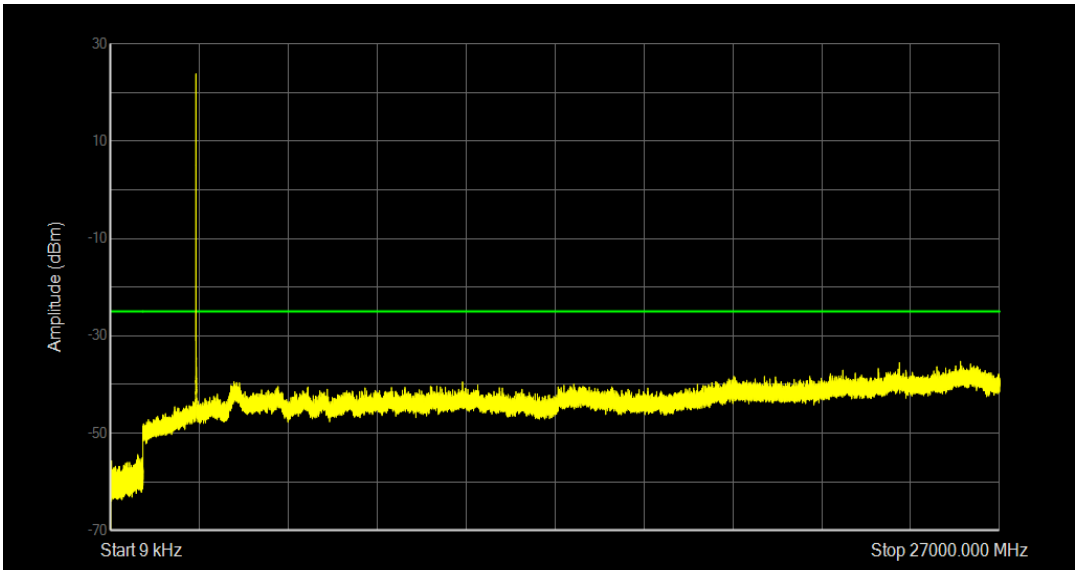
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0628761	-59.36	-25
2	0.15	30	10	0.16865625	-56.08	-25
3	30	1000	100	844.72725	-53.77	-25
4	1000	27000	1000	25696.1	-35.26	-25

n38 SCS=30kHz CP_QPSK BW=10MHz Channel=515000 RB=24@0



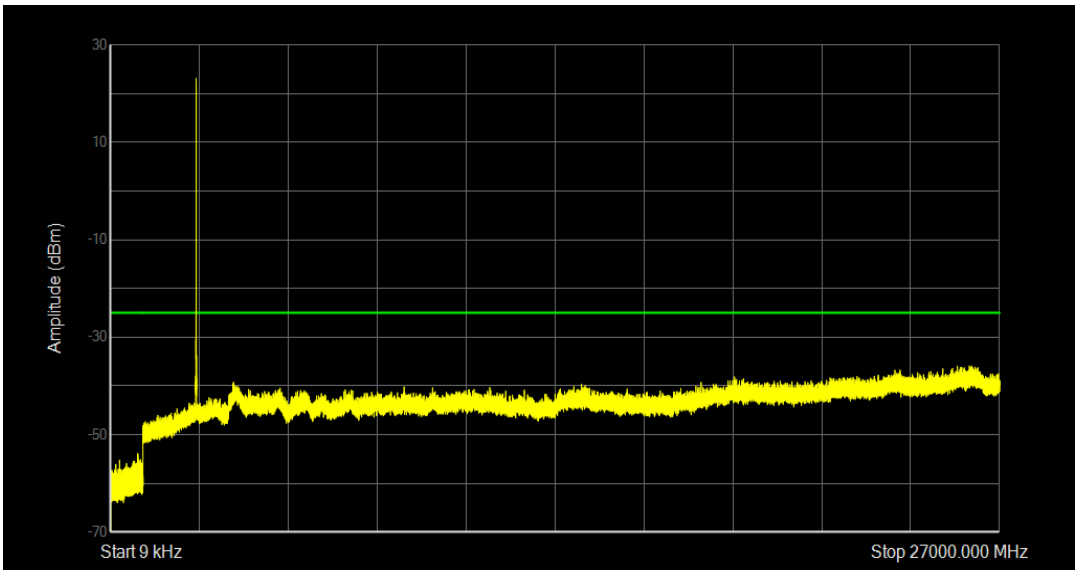
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.062721	-59.24	-25
2	0.15	30	10	0.17761125	-56.3	-25
3	30	1000	100	845.26075	-53.79	-25
4	1000	27000	1000	26199.2	-35.3	-25

n38 SCS=30kHz CP_QPSK BW=10MHz Channel=523000 RB=1@0



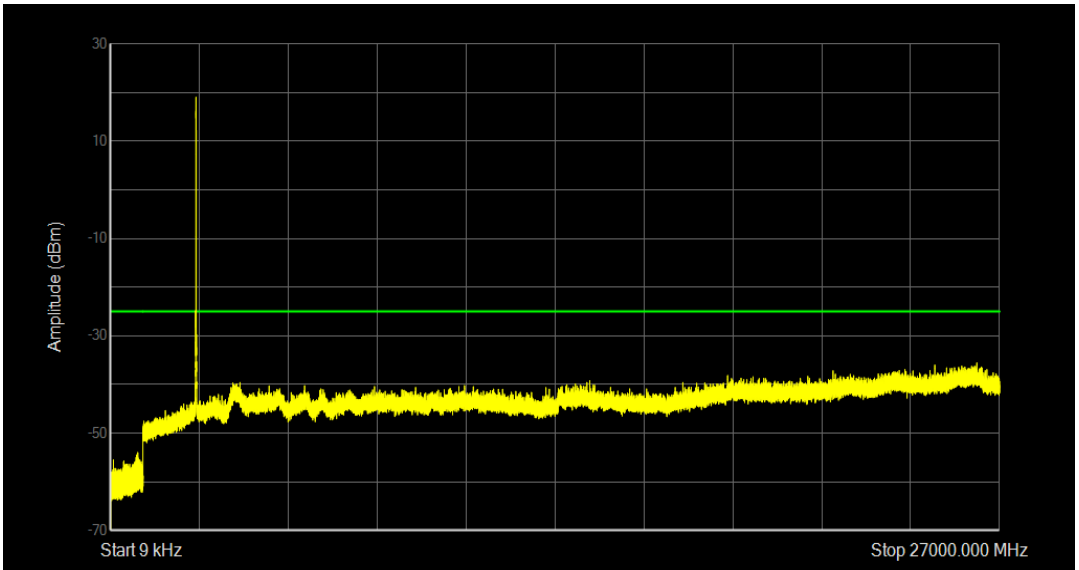
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.06257295	-60.04	-25
2	0.15	30	10	0.176865	-56.62	-25
3	30	1000	100	845.45475	-54.42	-25
4	1000	27000	1000	25815.05	-35.24	-25

n38 SCS=30kHz CP_QPSK BW=10MHz Channel=523000 RB=1@23



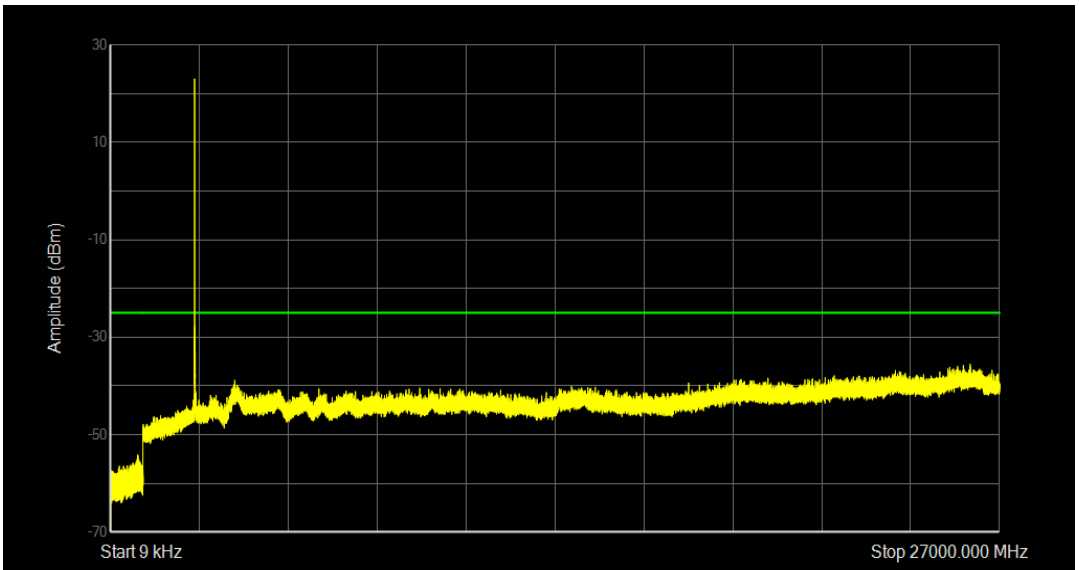
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.062498925	-59.25	-25
2	0.15	30	10	0.1604475	-55.56	-25
3	30	1000	100	845.6245	-53.91	-25
4	1000	27000	1000	26084.8	-35.9	-25

n38 SCS=30kHz CP_QPSK BW=10MHz Channel=523000 RB=24@0



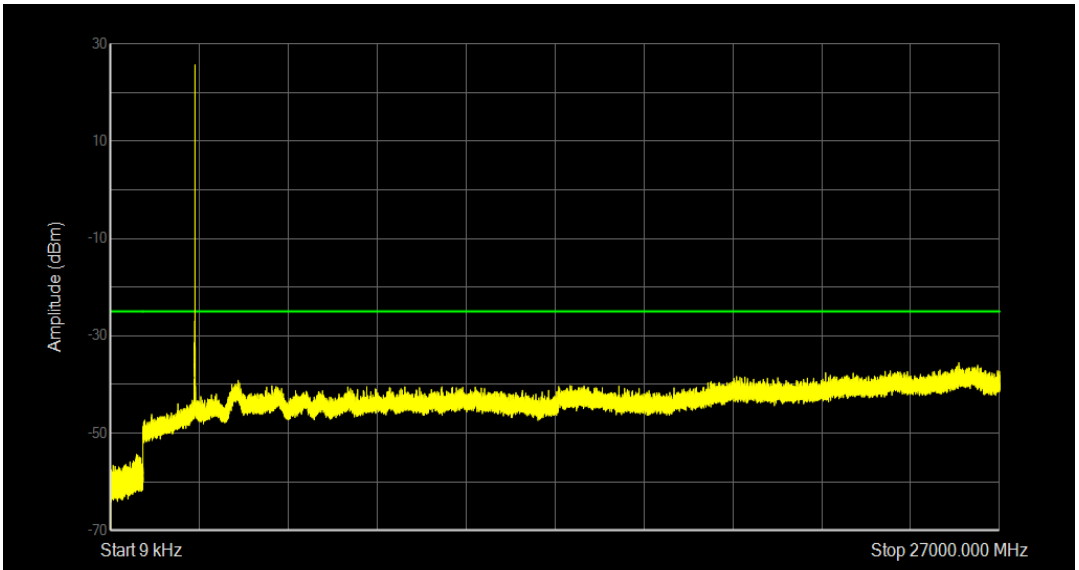
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.06284085	-59.65	-25
2	0.15	30	10	0.17910375	-55.26	-25
3	30	1000	100	845.4305	-54	-25
4	1000	27000	1000	26309.7	-35.56	-25

n38 SCS=30kHz CP_QPSK BW=15MHz Channel=515500 RB=1@0



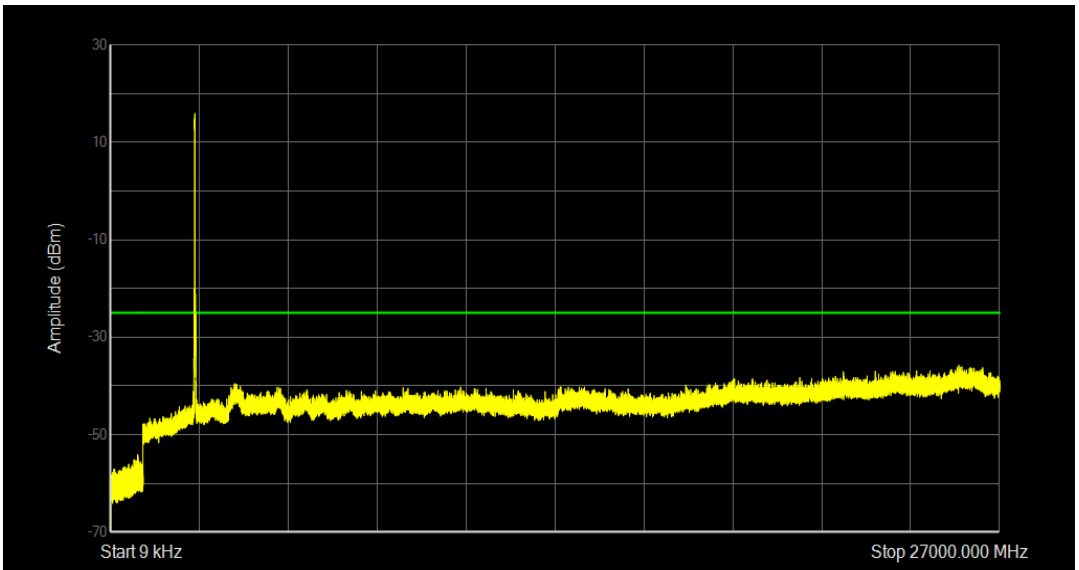
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0626082	-60.55	-25
2	0.15	30	10	0.15	-54.32	-25
3	30	1000	100	845.576	-54.19	-25
4	1000	27000	1000	26108.2	-35.55	-25

n38 SCS=30kHz CP_QPSK BW=15MHz Channel=515500 RB=1@37



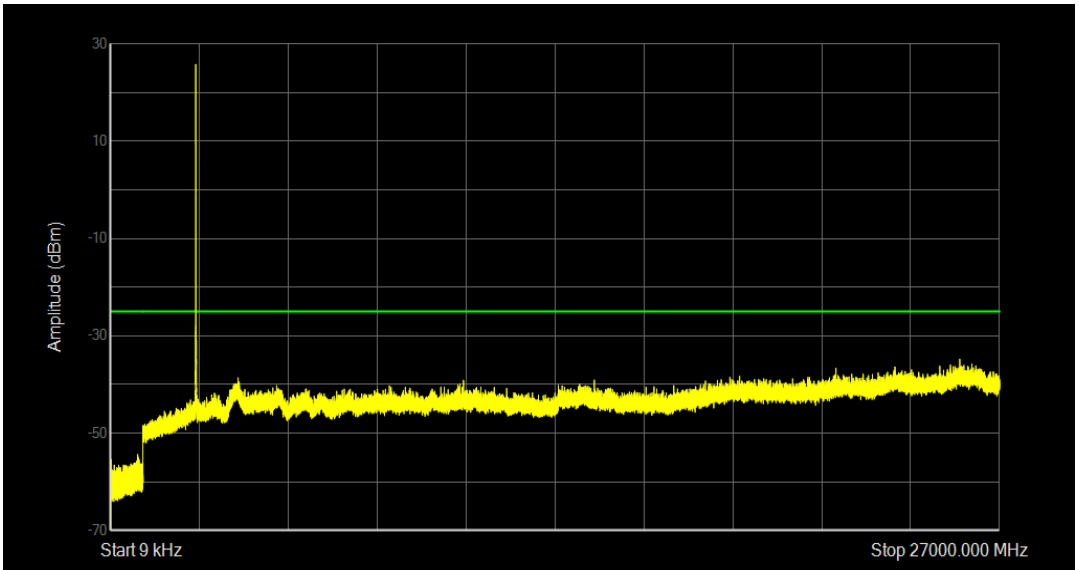
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.062886675	-60.52	-25
2	0.15	30	10	0.1604475	-54.98	-25
3	30	1000	100	809.104	-54.39	-25
4	1000	27000	1000	25764.35	-35.52	-25

n38 SCS=30kHz CP_QPSK BW=15MHz Channel=515500 RB=38@0



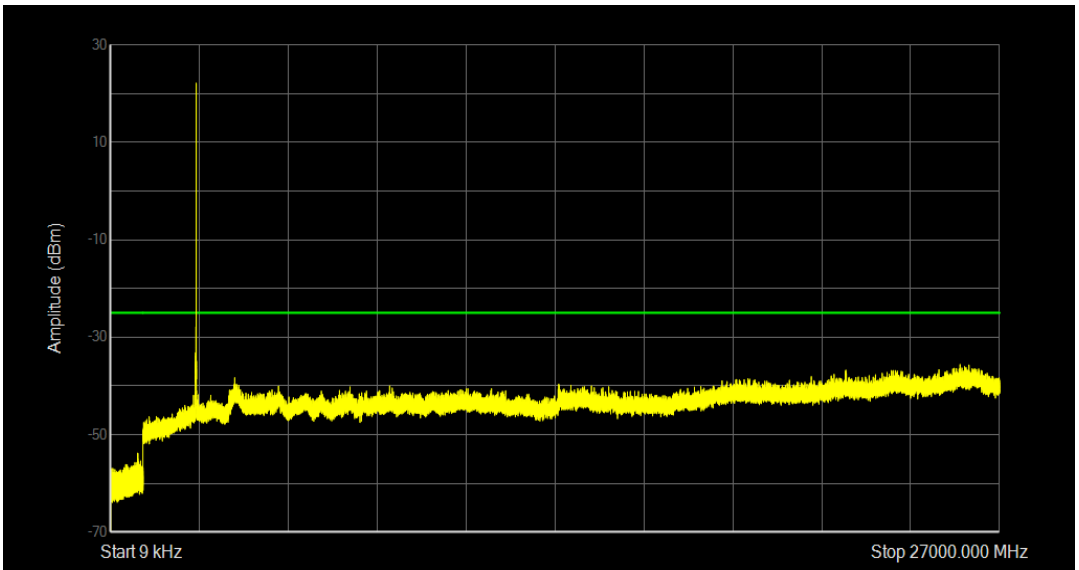
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.062618775	-60.59	-25
2	0.15	30	10	0.15	-56.48	-25
3	30	1000	100	844.67875	-54.07	-25
4	1000	27000	1000	25763.7	-35.8	-25

n38 SCS=30kHz CP_QPSK BW=15MHz Channel=522500 RB=1@0



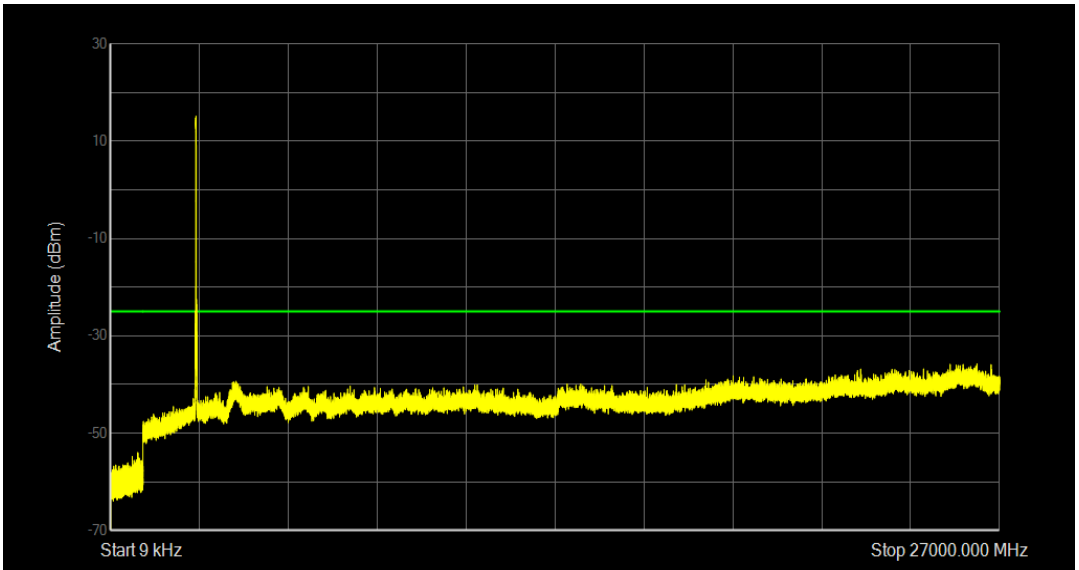
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0626928	-60.1	-25
2	0.15	30	10	0.15	-54.77	-25
3	30	1000	100	844.63025	-54.42	-25
4	1000	27000	1000	25792.3	-34.79	-25

n38 SCS=30kHz CP_QPSK BW=15MHz Channel=522500 RB=1@37



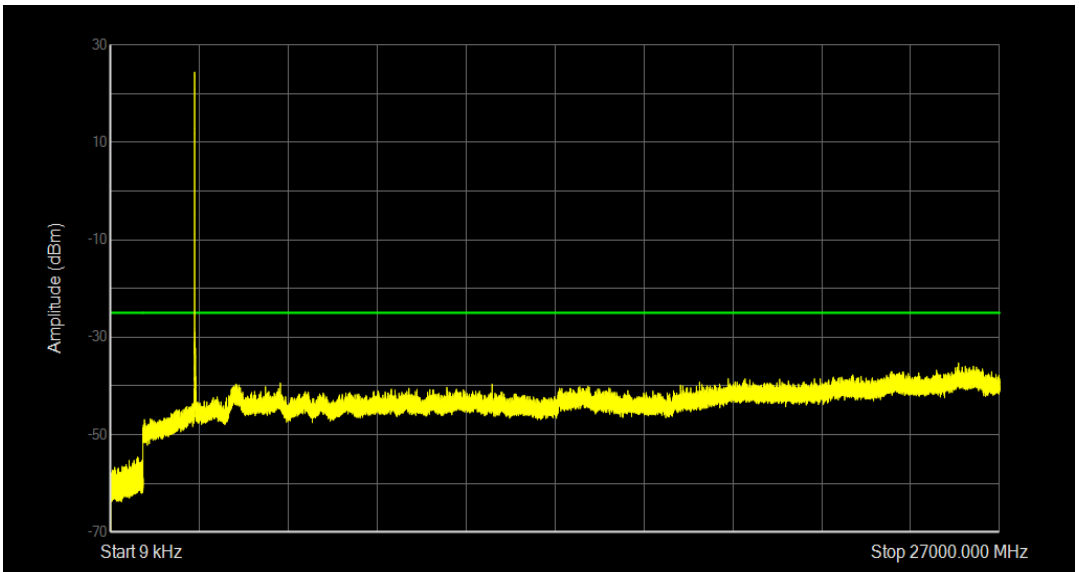
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.062604675	-59.75	-25
2	0.15	30	10	0.1544775	-55.11	-25
3	30	1000	100	844.4605	-53.8	-25
4	1000	27000	1000	25800.75	-35.6	-25

n38 SCS=30kHz CP_QPSK BW=15MHz Channel=522500 RB=38@0



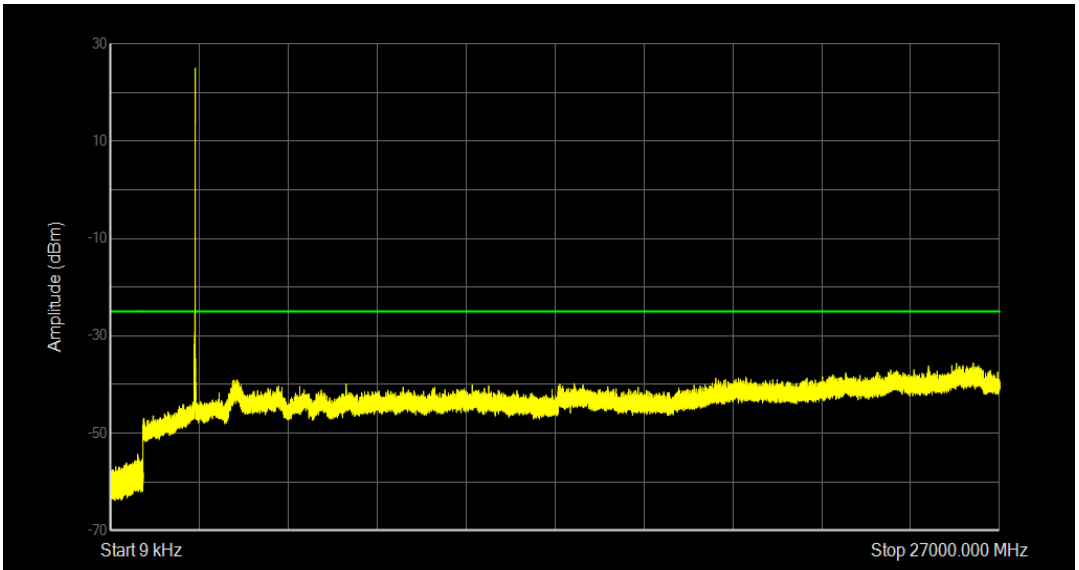
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.062541225	-59.6	-25
2	0.15	30	10	0.15	-55.64	-25
3	30	1000	100	844.96975	-54	-25
4	1000	27000	1000	26314.25	-35.77	-25

n38 SCS=30kHz CP_QPSK BW=20MHz Channel=516000 RB=1@0



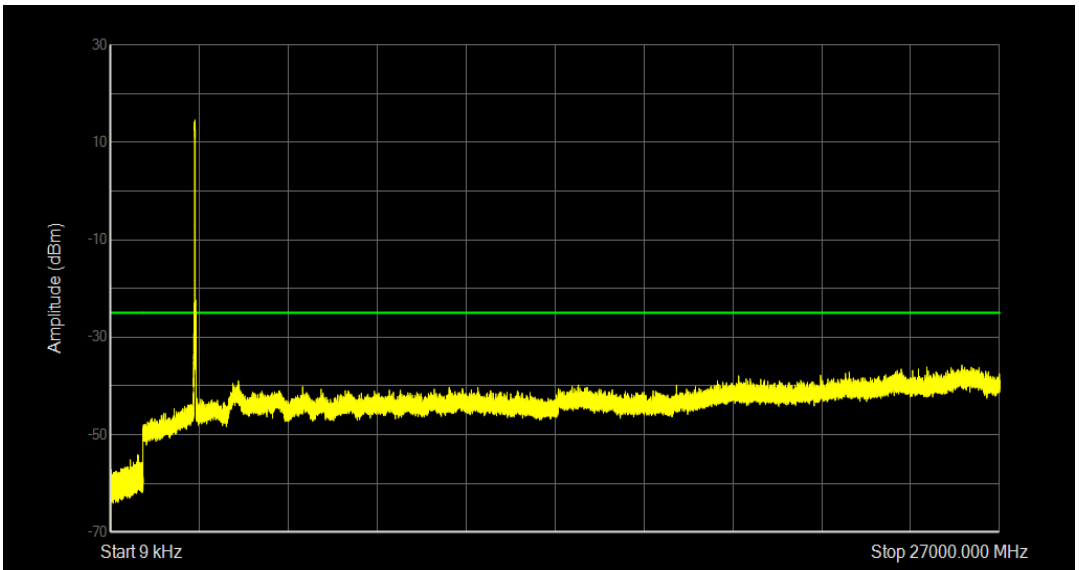
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.062717475	-60.21	-25
2	0.15	30	10	0.16194	-57.11	-25
3	30	1000	100	844.6545	-54.62	-25
4	1000	27000	1000	25753.3	-35.27	-25

n38 SCS=30kHz CP_QPSK BW=20MHz Channel=516000 RB=1@50



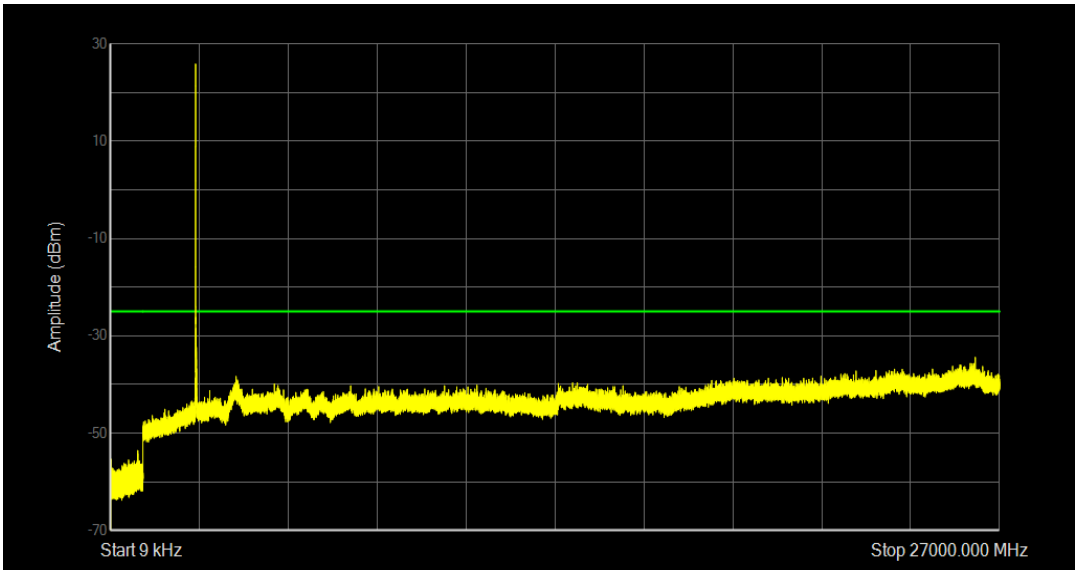
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.06244605	-59.99	-25
2	0.15	30	10	0.15	-54.54	-25
3	30	1000	100	844.5575	-54.35	-25
4	1000	27000	1000	26205.05	-35.59	-25

n38 SCS=30kHz CP_QPSK BW=20MHz Channel=516000 RB=51@0



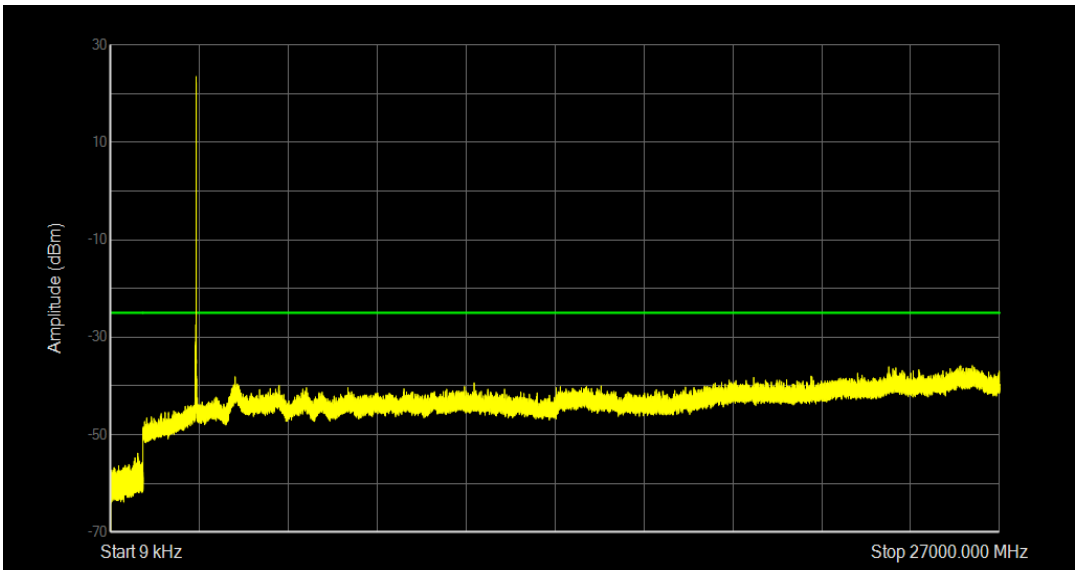
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.062823225	-59.48	-25
2	0.15	30	10	0.152985	-56.47	-25
3	30	1000	100	845.21225	-54.11	-25
4	1000	27000	1000	25856	-35.73	-25

n38 SCS=30kHz CP_QPSK BW=20MHz Channel=522000 RB=1@0



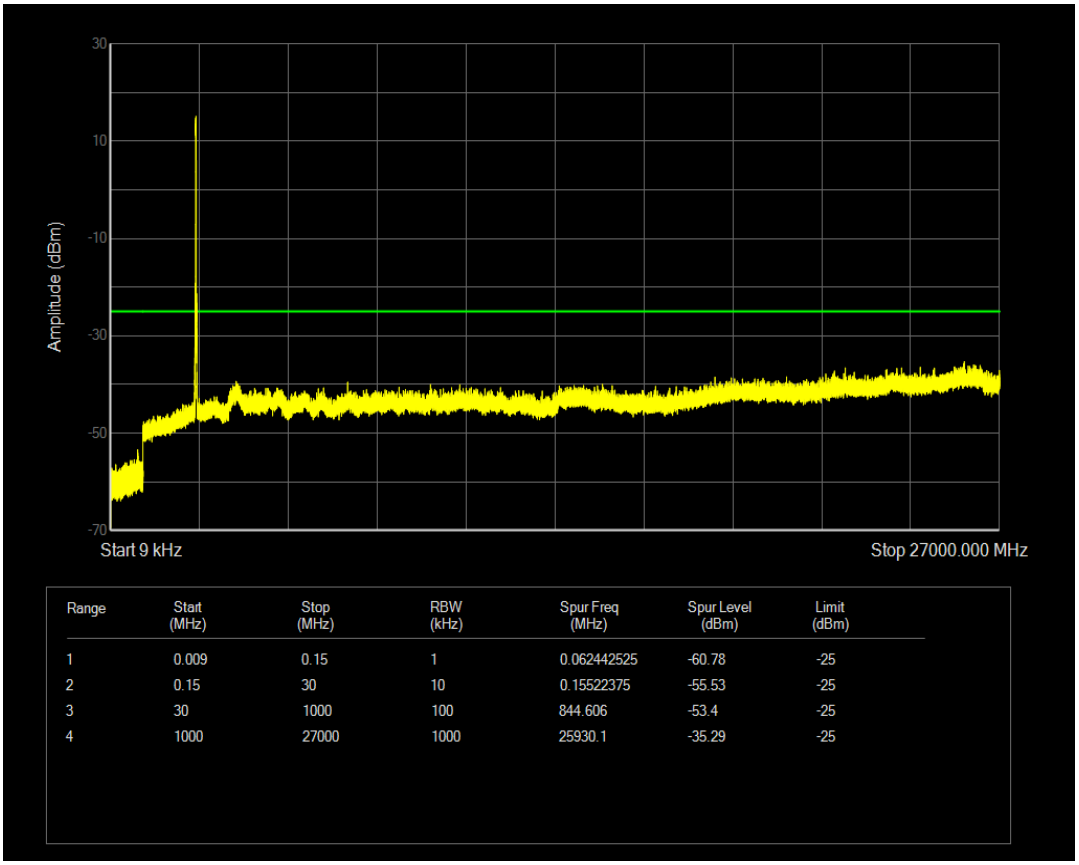
Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0626646	-59.44	-25
2	0.15	30	10	0.17462625	-55.91	-25
3	30	1000	100	845.60025	-53.58	-25
4	1000	27000	1000	26262.9	-34.41	-25

n38 SCS=30kHz CP_QPSK BW=20MHz Channel=522000 RB=1@50



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.0626364	-60.58	-25
2	0.15	30	10	0.1514925	-56.65	-25
3	30	1000	100	845.21225	-53.83	-25
4	1000	27000	1000	26173.2	-35.84	-25

n38 SCS=30kHz CP_QPSK BW=20MHz Channel=522000 RB=51@0



Range	Start (MHz)	Stop (MHz)	RBW (kHz)	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)
1	0.009	0.15	1	0.062442525	-60.78	-25
2	0.15	30	10	0.15522375	-55.53	-25
3	30	1000	100	844.606	-53.4	-25
4	1000	27000	1000	25930.1	-35.29	-25