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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
Band66	30	5	131997	1@0	QPSK	6.39			
n38	30	10	515000	1@0	DFT_BPSK	21.13			
Sum	30					21.27	19	26	PASS
Band66	30	5	132322	8@0	QPSK	6.64			
n38	30	10	519000	12@6	DFT_BPSK	21.38			
Sum	30					21.52	19	26	PASS
Band66	30	5	132322	8@0	QPSK	6.57			
n38	30	10	519000	12@6	DFT_QPSK	21.36			
Sum	30					21.50	19	26	PASS
Band66	30	5	132647	1@17	QPSK	6.90			
n38	30	10	523000	1@23	DFT_BPSK	21.74			
Sum	30					21.88	19	26	PASS
Band66	30	5	132647	8@17	QPSK	6.93			
n38	30	10	523000	12@6	DFT_BPSK	21.88			
Sum	30					22.01	19	26	PASS
Band66	30	5	132647	1@17	QPSK	7.00			
n38	30	10	523000	1@23	DFT_QPSK	21.80			
Sum	30					21.94	19	26	PASS
Band66	30	5	132647	8@17	QPSK	6.90			
n38	30	10	523000	12@6	DFT_QPSK	21.93			
Sum	30					22.06	19	26	PASS
Band66	30	20	132072	1@0	QPSK	6.67			
n38	30	20	516000	1@0	DFT_BPSK	22.05			
Sum	30					22.17	19	26	PASS
Band66	30	20	132322	18@0	QPSK	6.69			
n38	30	20	519000	25@12	DFT_BPSK	22.49			
Sum	30					22.60	19	26	PASS
Band66	30	20	132322	18@0	QPSK	6.73			
n38	30	20	519000	25@12	DFT_QPSK	22.44			
Sum	30					22.55	19	26	PASS
Band66	30	20	132572	1@72	QPSK	7.04			
n38	30	20	522000	1@50	DFT_BPSK	21.99			
Sum	30					22.12	19	26	PASS
Band66	30	20	132572	18@72	QPSK	6.93			
n38	30	20	522000	25@12	DFT_BPSK	22.18			
Sum	30					22.30	19	26	PASS
Band66	30	20	132572	1@72	QPSK	7.04			
n38	30	20	522000	1@50	DFT_QPSK	21.95			
Sum	30					22.08	19	26	PASS

Band66	30	20	132572	18@72	QPSK	6.82			
n38	30	20	522000	25@12	DFT_QPSK	22.17			
Sum	30					22.29	19	26	PASS

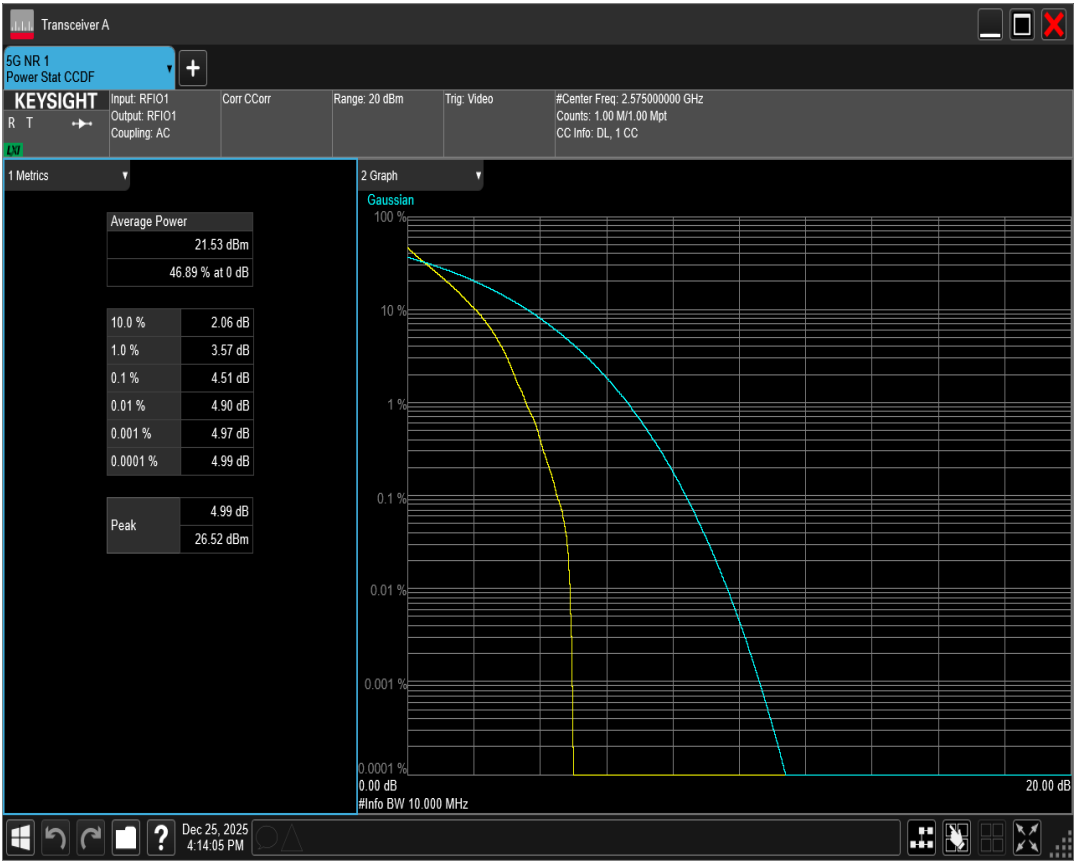
2 Frequency stability for EN-DC

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	1.76	0.00068	-2.5	2.5	PASS
n38	30	10	515000	1@1	DFT_BPSK	1.05	0.00041	-2.5	2.5	PASS
n38	30	10	515000	1@22	DFT_BPSK	0.12	0.00005	-2.5	2.5	PASS
n38	30	10	515000	12@6	DFT_QPSK	3.14	0.00122	-2.5	2.5	PASS
n38	30	10	515000	1@1	DFT_QPSK	-0.19	-0.00007	-2.5	2.5	PASS
n38	30	10	515000	1@22	DFT_QPSK	0.18	0.00007	-2.5	2.5	PASS
n38	30	10	519000	12@6	DFT_BPSK	0.54	0.00021	-2.5	2.5	PASS
n38	30	10	519000	1@1	DFT_BPSK	1.70	0.00066	-2.5	2.5	PASS
n38	30	10	519000	1@22	DFT_BPSK	1.85	0.00071	-2.5	2.5	PASS
n38	30	10	519000	12@6	DFT_QPSK	-0.51	-0.00020	-2.5	2.5	PASS
n38	30	10	519000	1@1	DFT_QPSK	-0.86	-0.00033	-2.5	2.5	PASS
n38	30	10	519000	1@22	DFT_QPSK	-0.13	-0.00005	-2.5	2.5	PASS
n38	30	10	523000	12@6	DFT_BPSK	-0.12	-0.00005	-2.5	2.5	PASS
n38	30	10	523000	1@1	DFT_BPSK	-1.06	-0.00041	-2.5	2.5	PASS
n38	30	10	523000	1@22	DFT_BPSK	0.18	0.00007	-2.5	2.5	PASS
n38	30	10	523000	12@6	DFT_QPSK	0.64	0.00024	-2.5	2.5	PASS
n38	30	10	523000	1@1	DFT_QPSK	2.95	0.00113	-2.5	2.5	PASS
n38	30	10	523000	1@22	DFT_QPSK	-1.25	-0.00048	-2.5	2.5	PASS
n38	30	20	516000	25@12	DFT_BPSK	-0.48	-0.00019	-2.5	2.5	PASS
n38	30	20	516000	1@1	DFT_BPSK	0.64	0.00025	-2.5	2.5	PASS
n38	30	20	516000	1@49	DFT_BPSK	1.61	0.00062	-2.5	2.5	PASS
n38	30	20	516000	25@12	DFT_QPSK	1.78	0.00069	-2.5	2.5	PASS
n38	30	20	516000	1@1	DFT_QPSK	1.58	0.00061	-2.5	2.5	PASS
n38	30	20	516000	1@49	DFT_QPSK	0.22	0.00009	-2.5	2.5	PASS
n38	30	20	519000	25@12	DFT_BPSK	0.98	0.00038	-2.5	2.5	PASS
n38	30	20	519000	1@1	DFT_BPSK	0.37	0.00014	-2.5	2.5	PASS
n38	30	20	519000	1@49	DFT_BPSK	0.36	0.00014	-2.5	2.5	PASS
n38	30	20	519000	25@12	DFT_QPSK	0.77	0.00030	-2.5	2.5	PASS
n38	30	20	519000	1@1	DFT_QPSK	1.89	0.00073	-2.5	2.5	PASS
n38	30	20	519000	1@49	DFT_QPSK	0.94	0.00036	-2.5	2.5	PASS
n38	30	20	522000	25@12	DFT_BPSK	0.51	0.00020	-2.5	2.5	PASS
n38	30	20	522000	1@1	DFT_BPSK	0.95	0.00036	-2.5	2.5	PASS
n38	30	20	522000	1@49	DFT_BPSK	1.31	0.00050	-2.5	2.5	PASS
n38	30	20	522000	25@12	DFT_QPSK	0.43	0.00016	-2.5	2.5	PASS
n38	30	20	522000	1@1	DFT_QPSK	-1.21	-0.00046	-2.5	2.5	PASS
n38	30	20	522000	1@49	DFT_QPSK	-0.33	-0.00013	-2.5	2.5	PASS

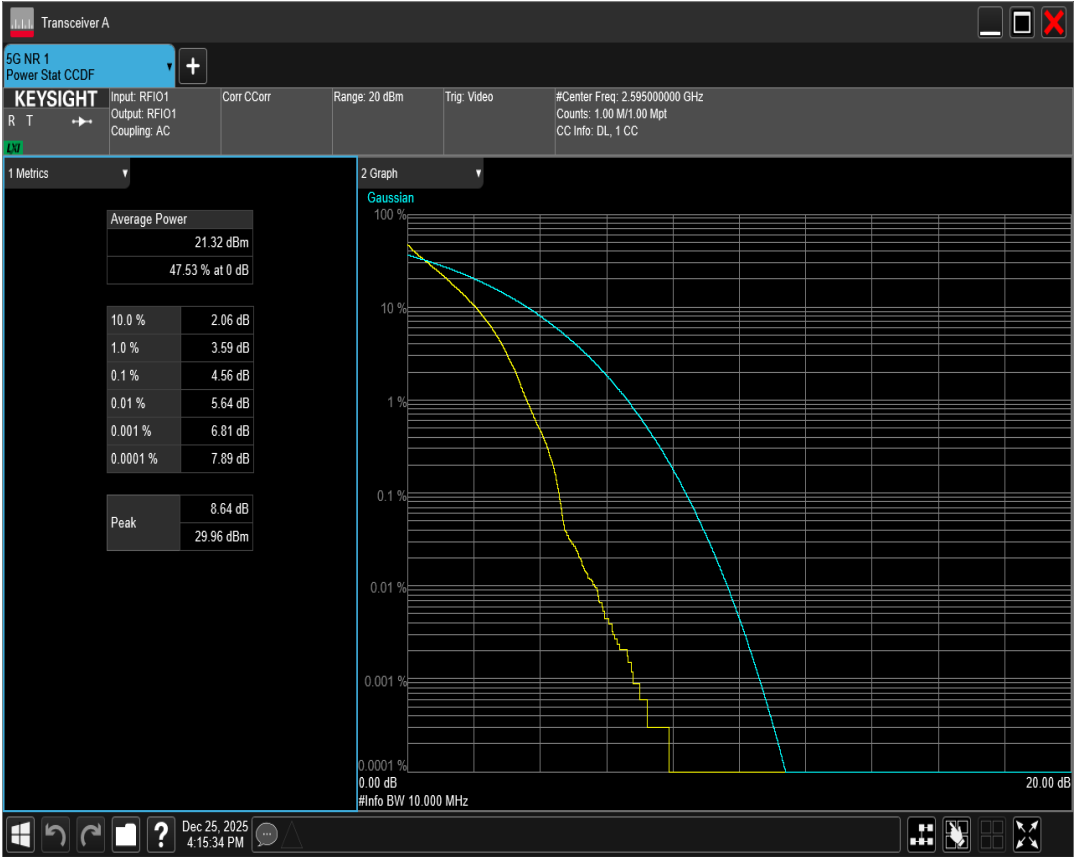
3 Peak-to-Average Ratio for EN-DC

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Result (dB)	high Limit (dB)	Verdict
n38	30	10	515000	24@0	DFT_BPSK	4.51	13	PASS
n38	30	10	515000	24@0	DFT_QPSK	5.98	13	PASS
n38	30	10	515000	24@0	DFT_QAM16	6.41	13	PASS
n38	30	10	515000	24@0	DFT_QAM64	6.73	13	PASS
n38	30	10	515000	24@0	DFT_QAM256	6.84	13	PASS
n38	30	10	519000	24@0	DFT_BPSK	4.56	13	PASS
n38	30	10	519000	24@0	DFT_QPSK	5.83	13	PASS
n38	30	10	519000	24@0	DFT_QAM16	6.52	13	PASS
n38	30	10	519000	24@0	DFT_QAM64	6.60	13	PASS
n38	30	10	519000	24@0	DFT_QAM256	6.78	13	PASS
n38	30	10	523000	24@0	DFT_BPSK	4.81	13	PASS
n38	30	10	523000	24@0	DFT_QPSK	5.81	13	PASS
n38	30	10	523000	24@0	DFT_QAM16	6.56	13	PASS
n38	30	10	523000	24@0	DFT_QAM64	6.72	13	PASS
n38	30	10	523000	24@0	DFT_QAM256	6.81	13	PASS
n38	30	20	516000	50@0	DFT_BPSK	4.82	13	PASS
n38	30	20	516000	50@0	DFT_QPSK	5.93	13	PASS
n38	30	20	516000	50@0	DFT_QAM16	6.30	13	PASS
n38	30	20	516000	50@0	DFT_QAM64	6.65	13	PASS
n38	30	20	516000	50@0	DFT_QAM256	6.84	13	PASS
n38	30	20	519000	50@0	DFT_BPSK	4.61	13	PASS
n38	30	20	519000	50@0	DFT_QPSK	5.74	13	PASS
n38	30	20	519000	50@0	DFT_QAM16	6.51	13	PASS
n38	30	20	519000	50@0	DFT_QAM64	6.79	13	PASS
n38	30	20	519000	50@0	DFT_QAM256	6.95	13	PASS
n38	30	20	522000	50@0	DFT_BPSK	4.77	13	PASS
n38	30	20	522000	50@0	DFT_QPSK	5.90	13	PASS
n38	30	20	522000	50@0	DFT_QAM16	6.42	13	PASS
n38	30	20	522000	50@0	DFT_QAM64	6.81	13	PASS
n38	30	20	522000	50@0	DFT_QAM256	6.86	13	PASS

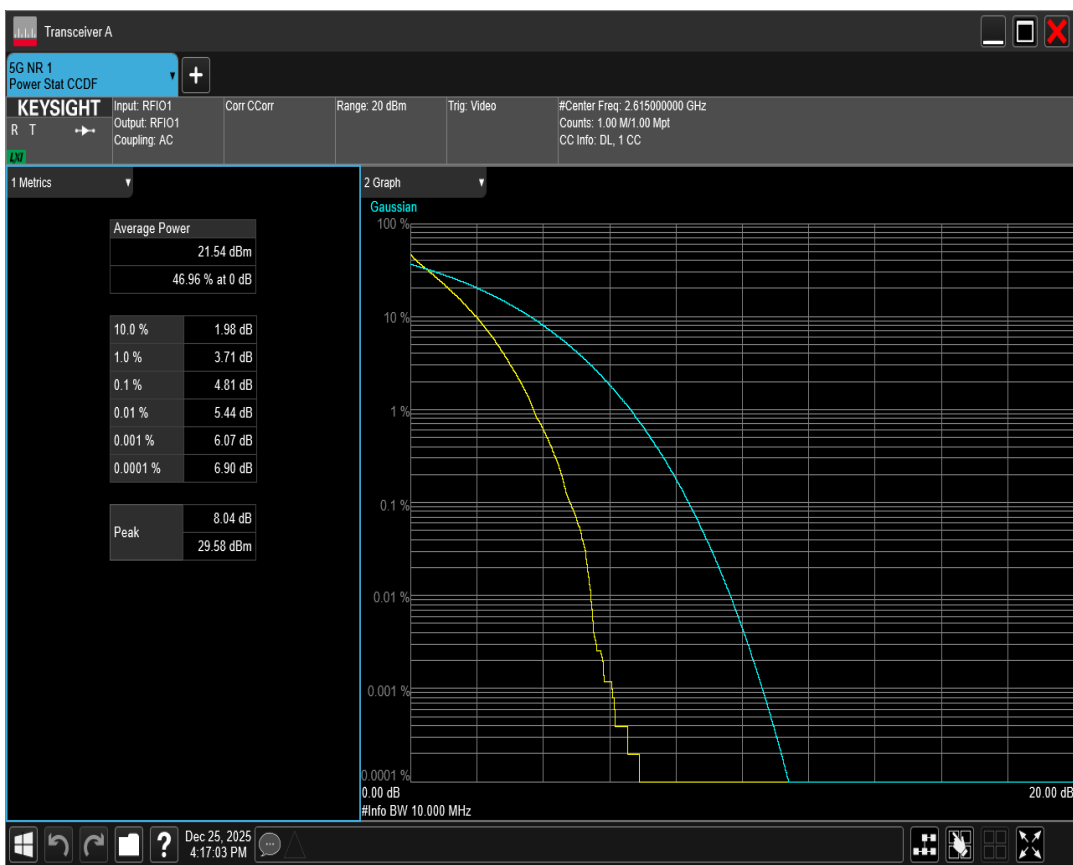
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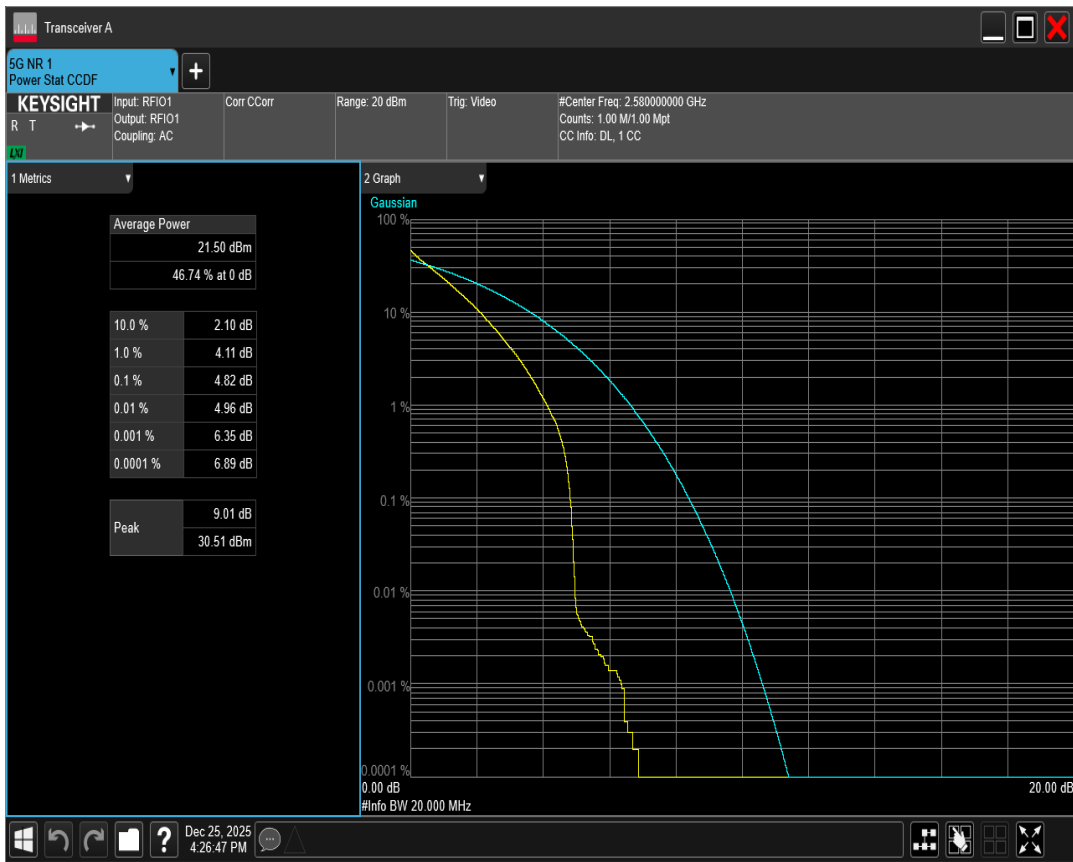
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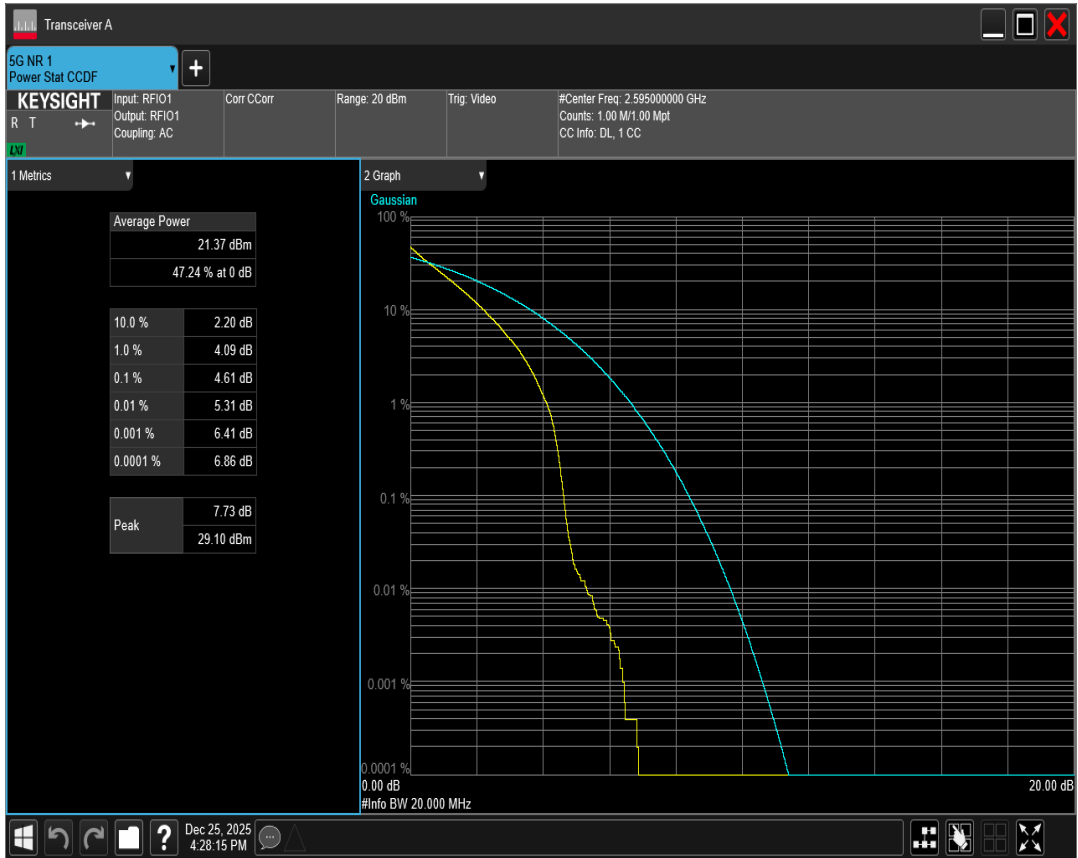
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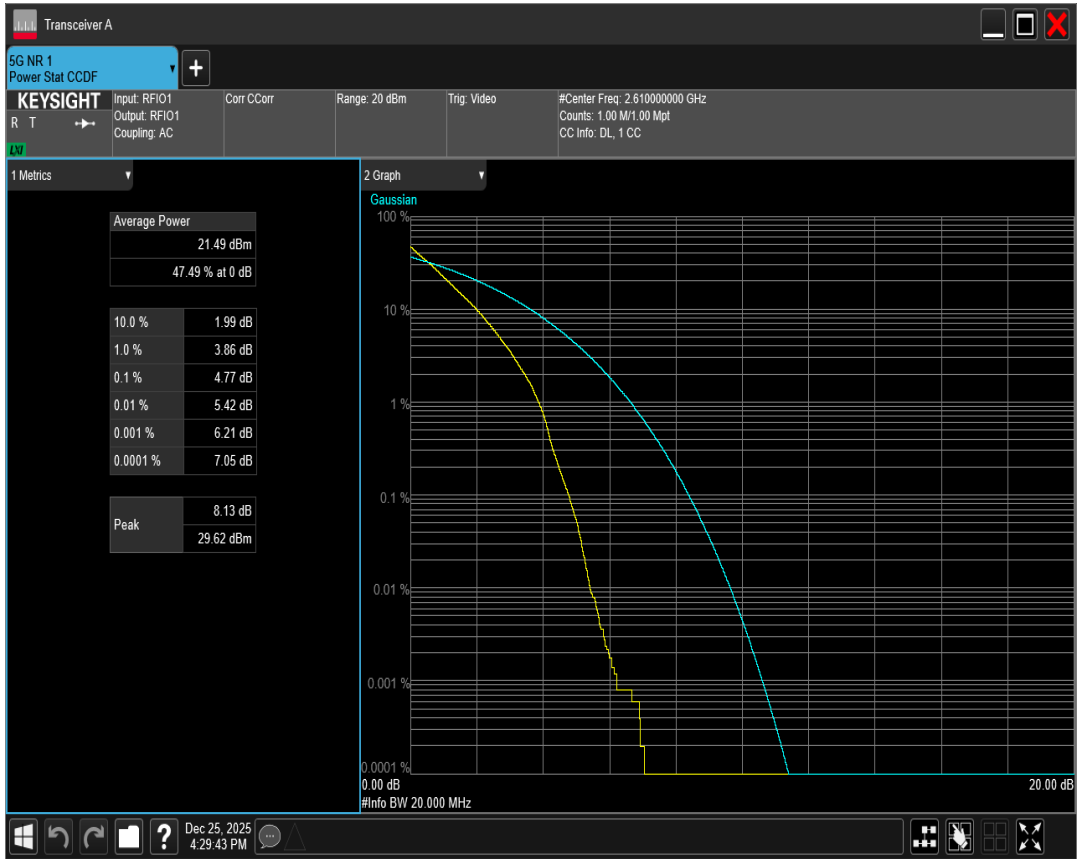
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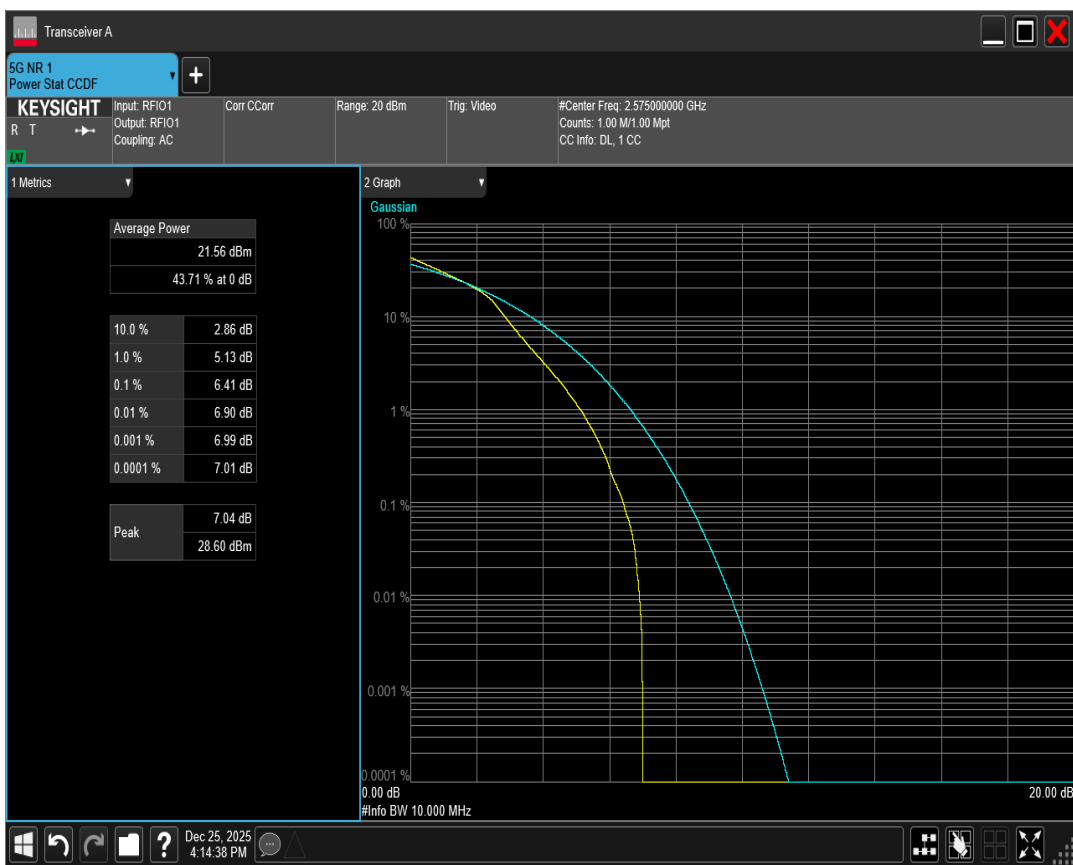
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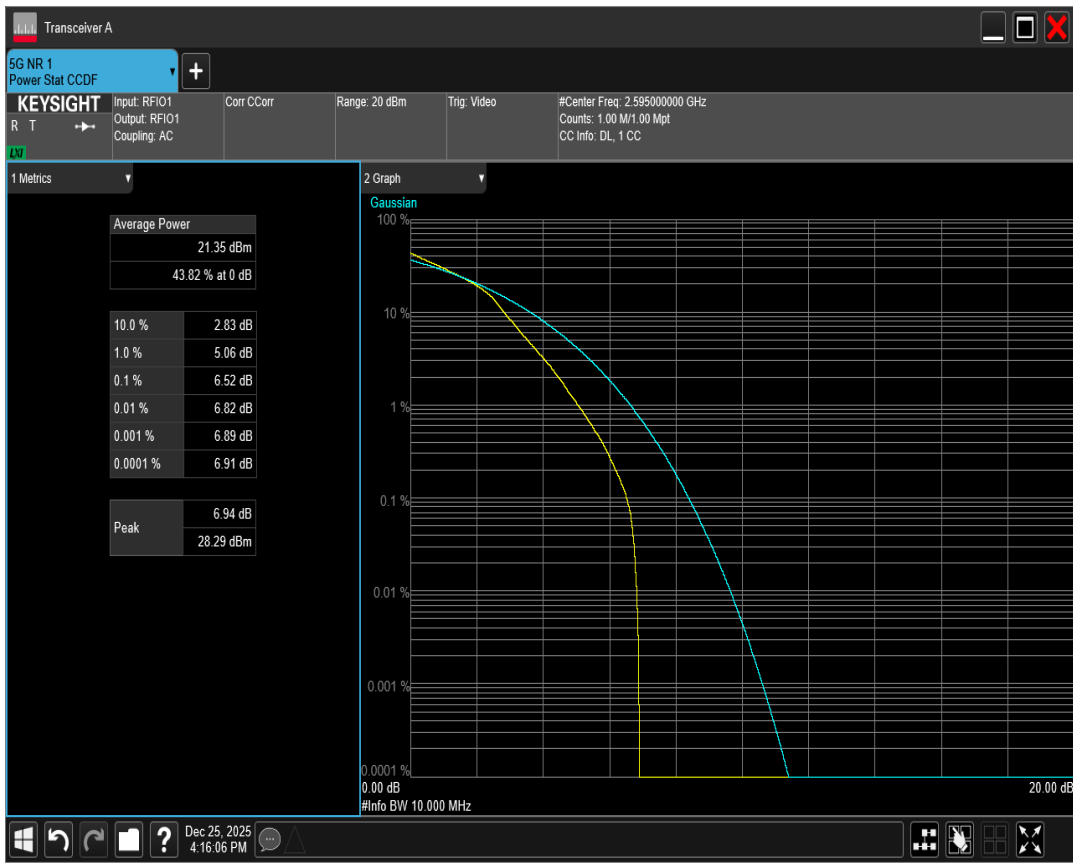
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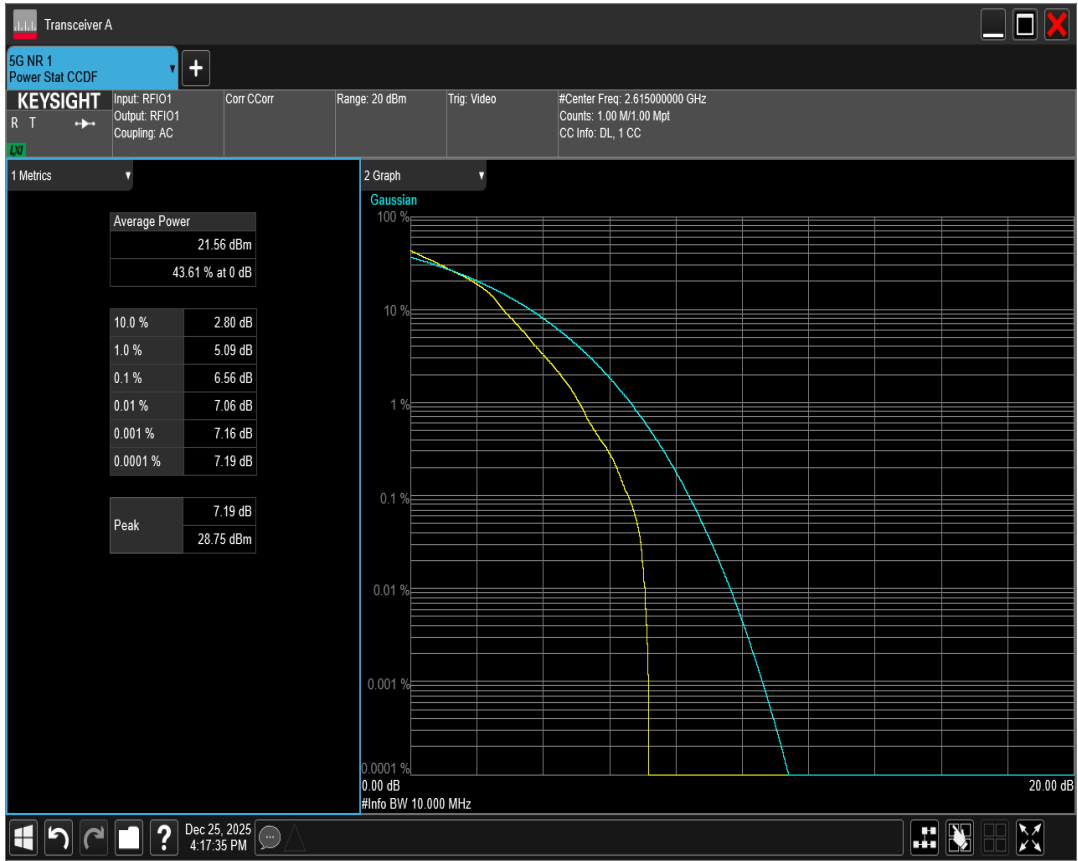
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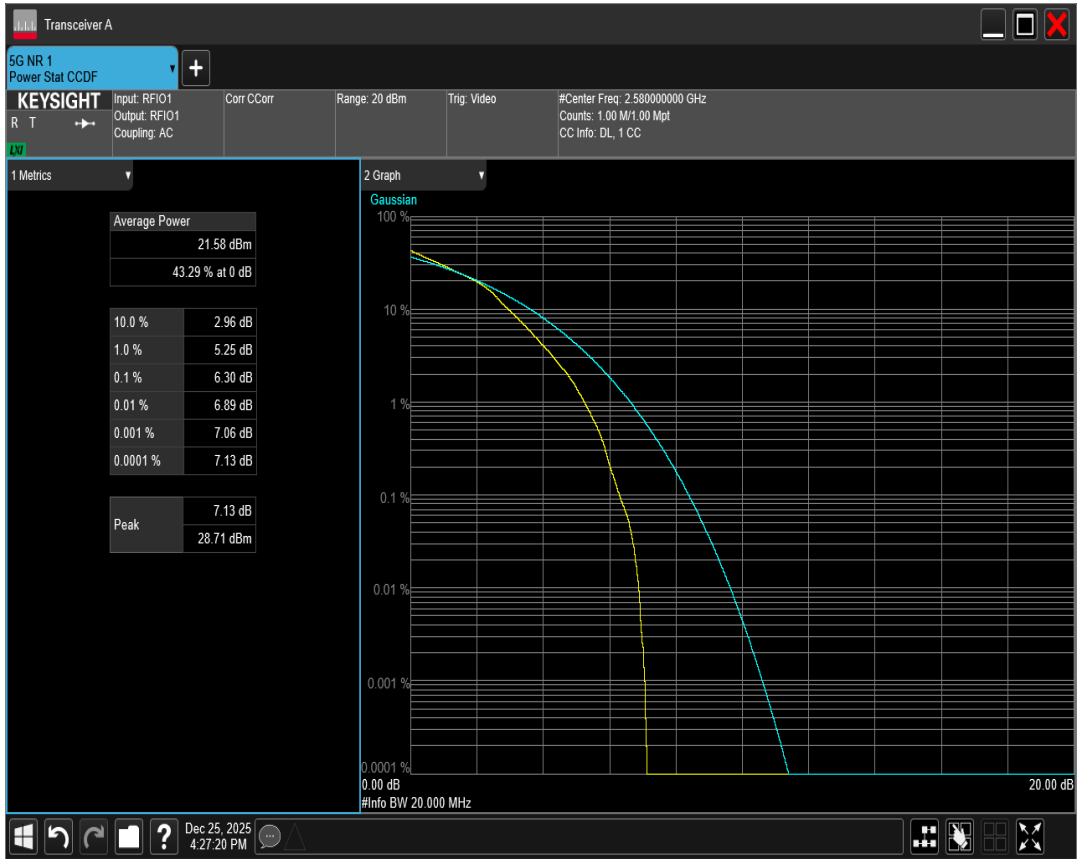
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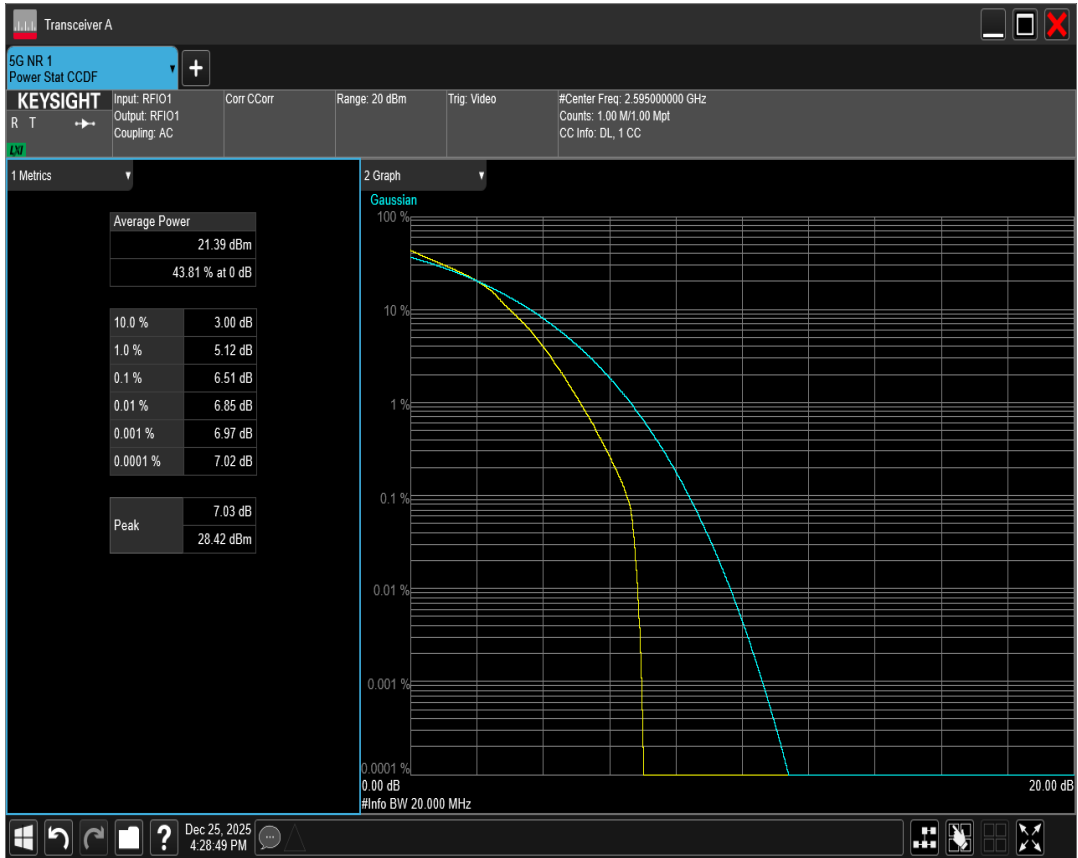
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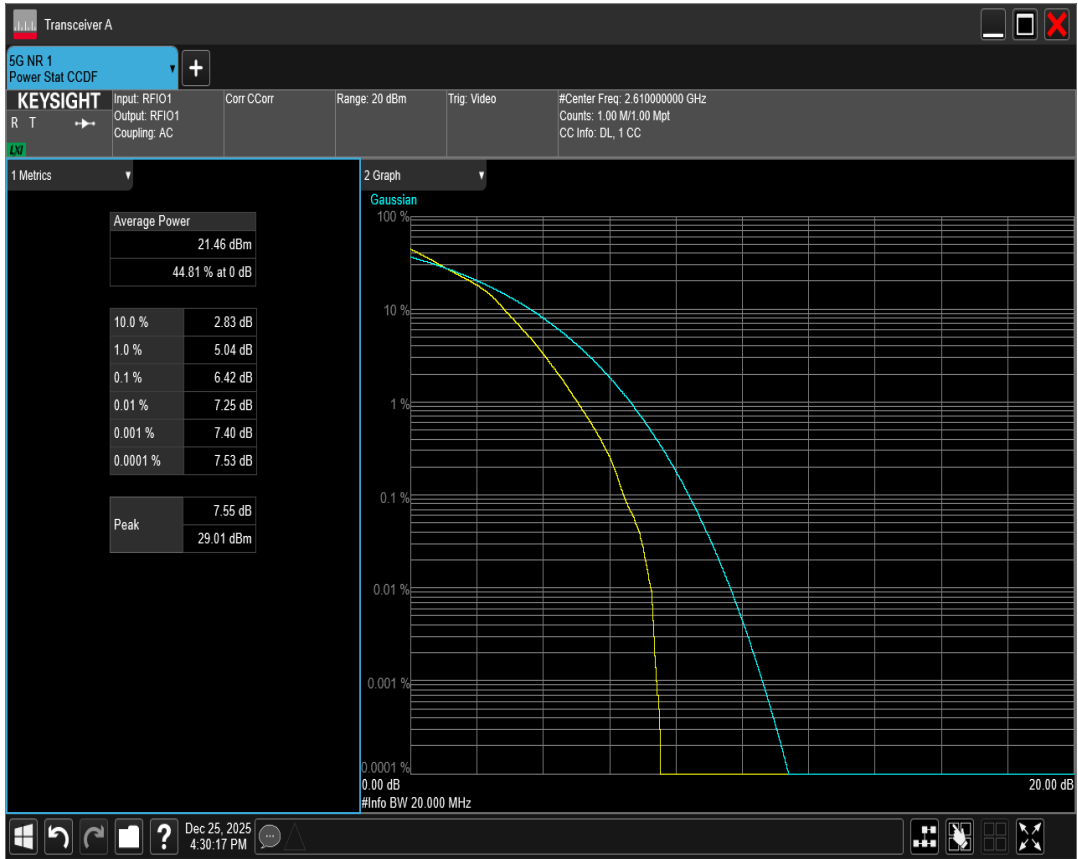
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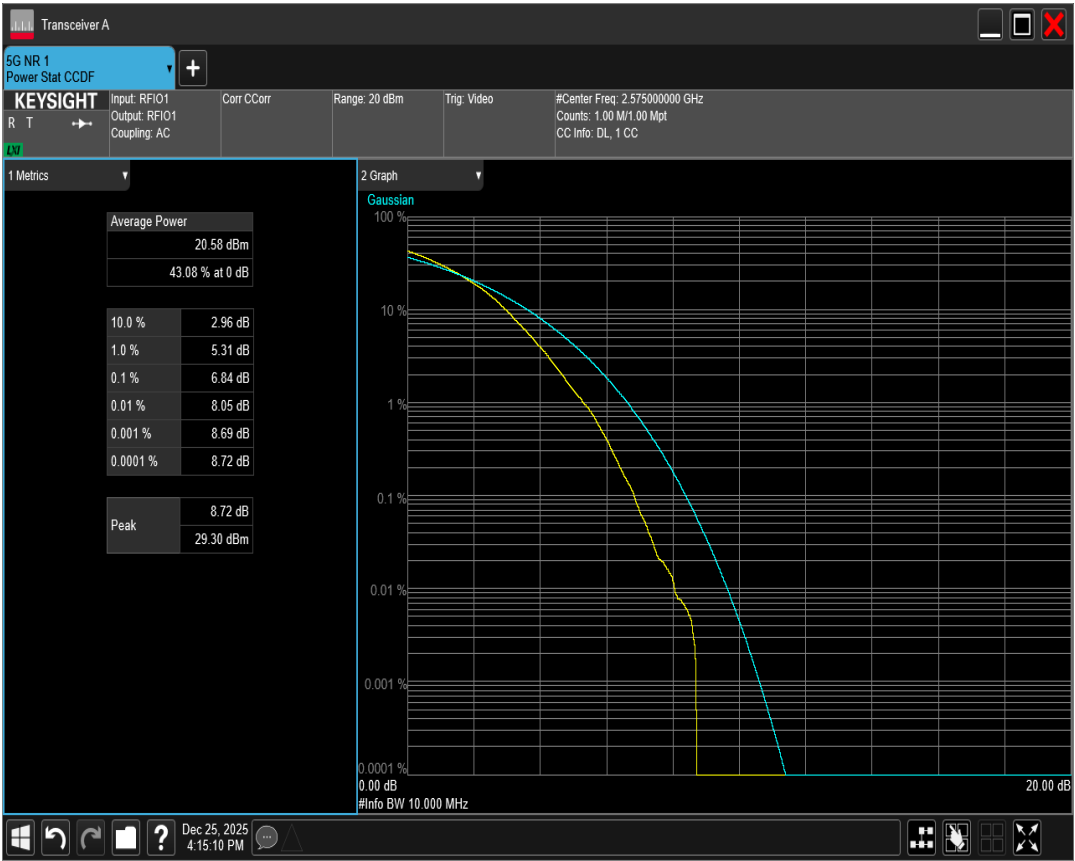
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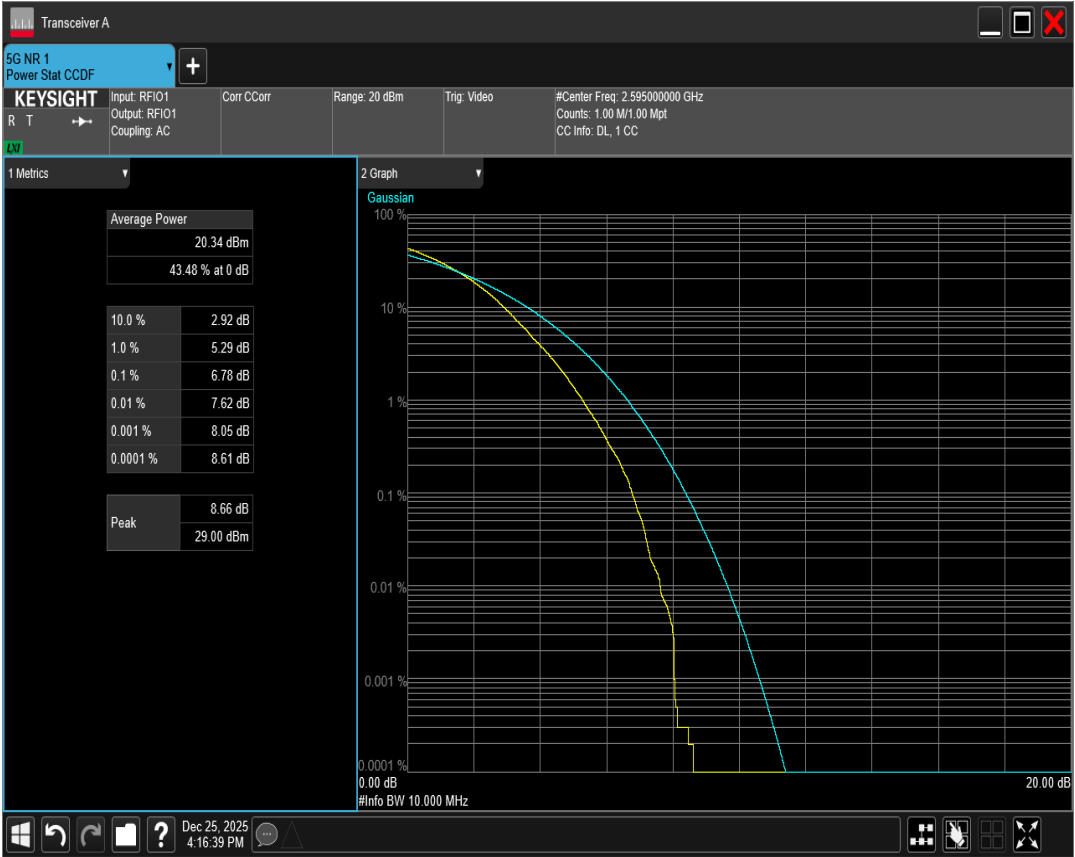
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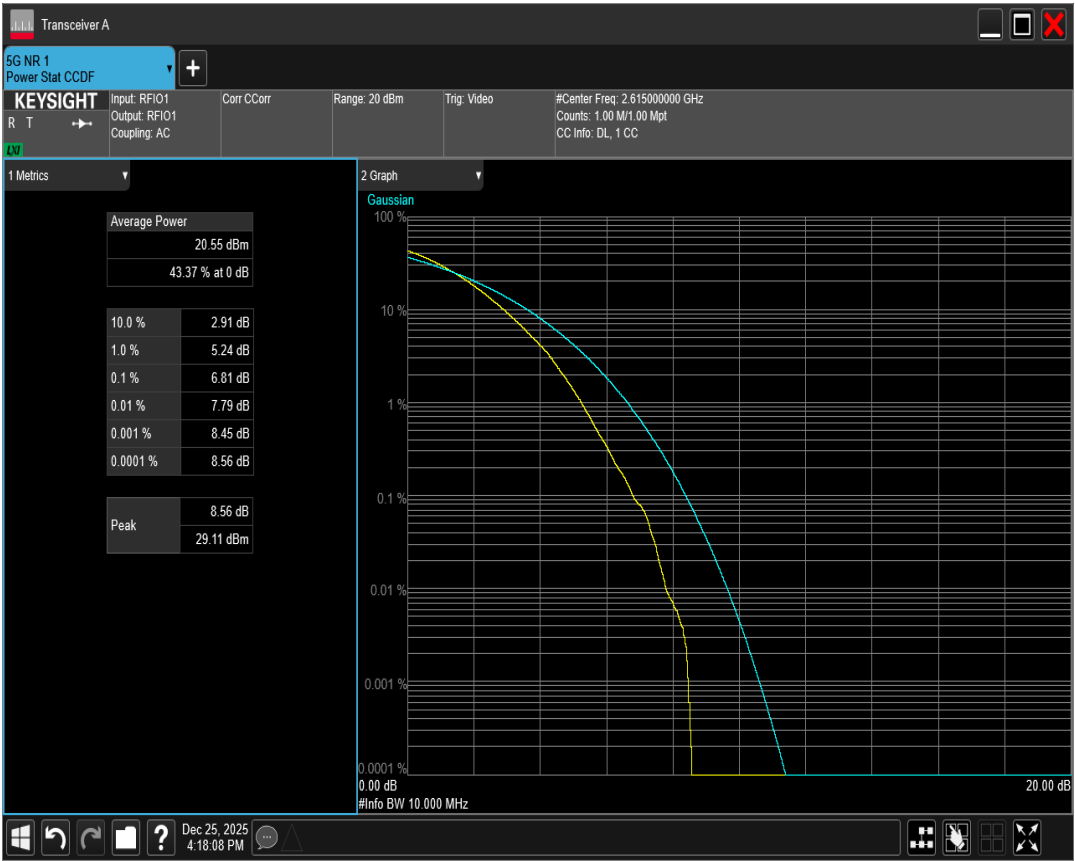
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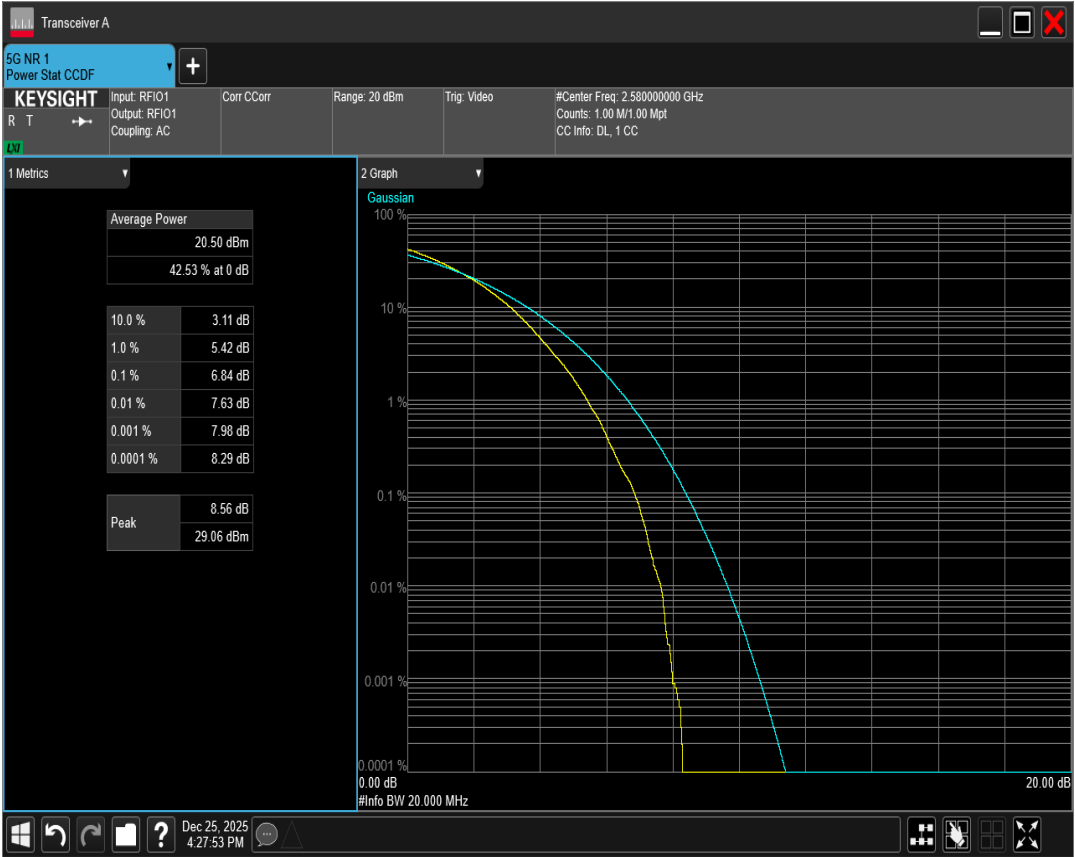
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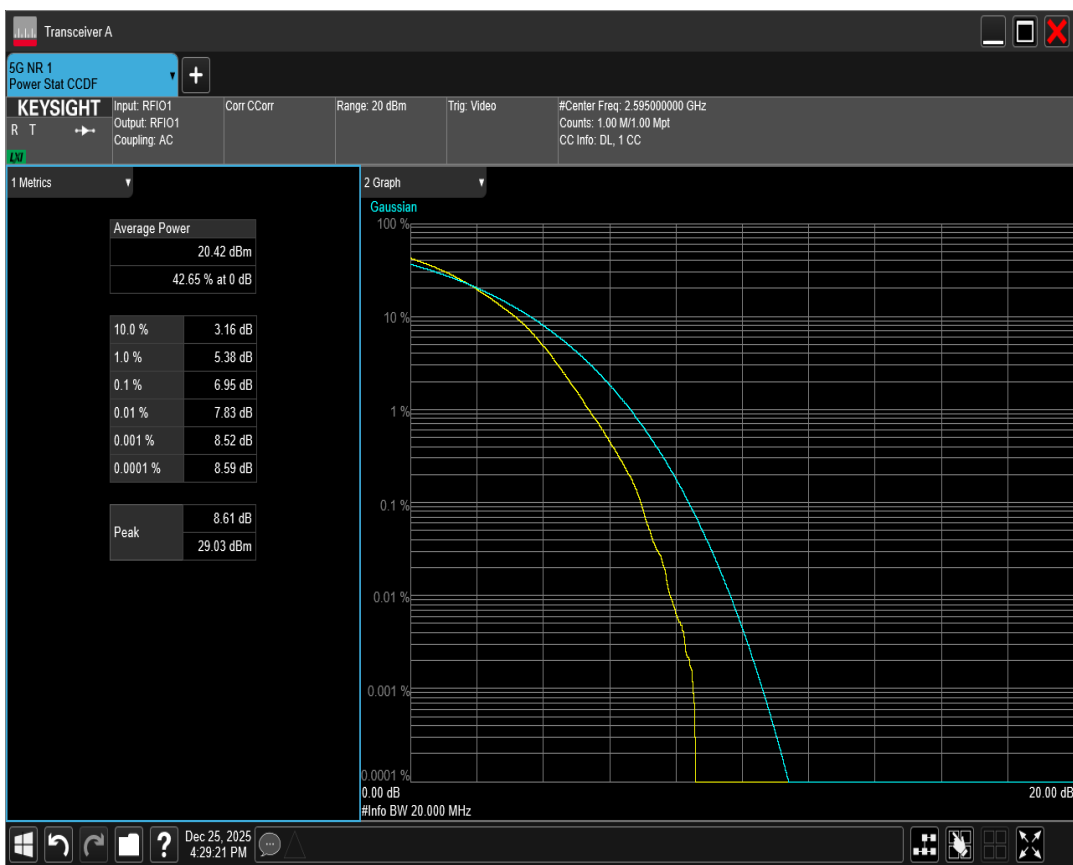
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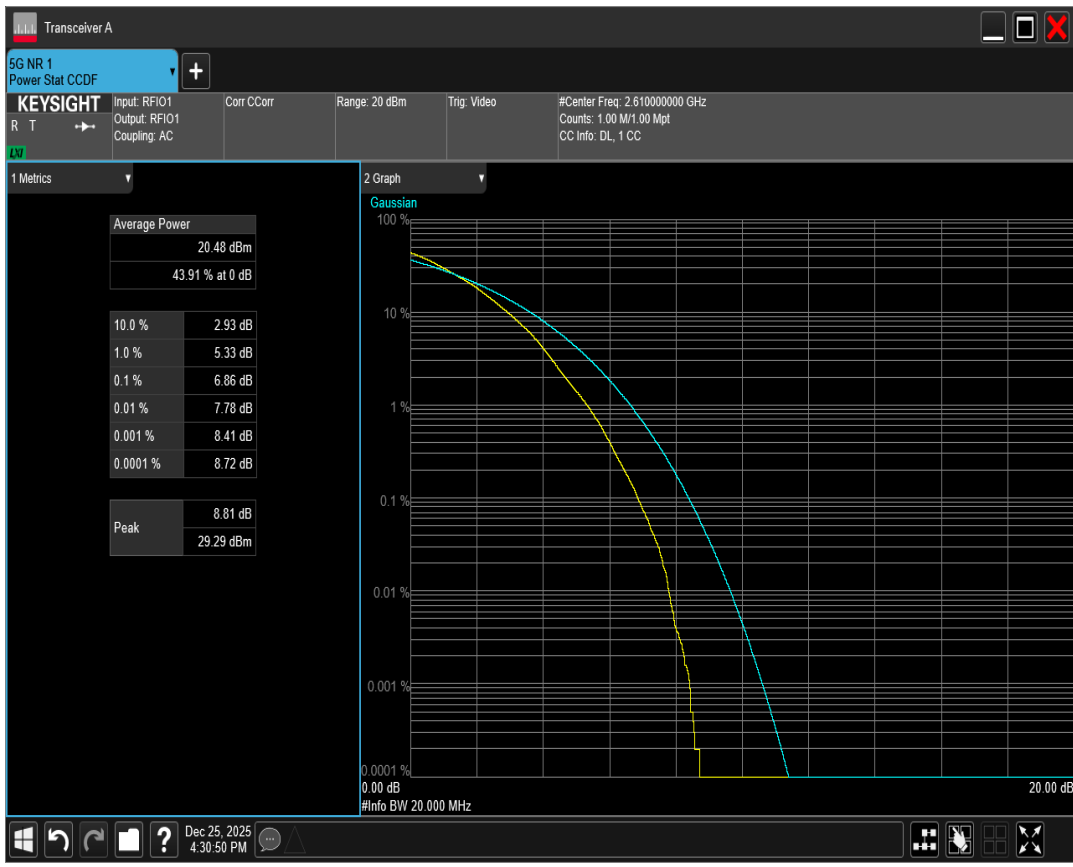
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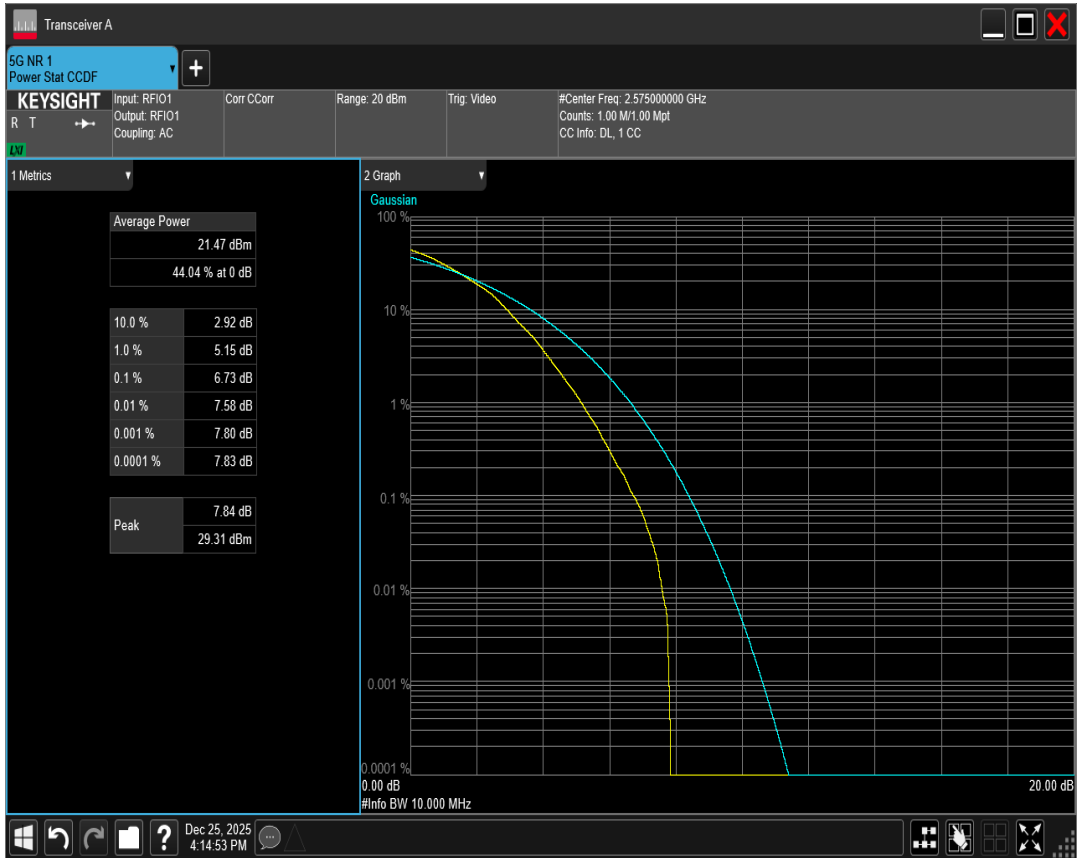
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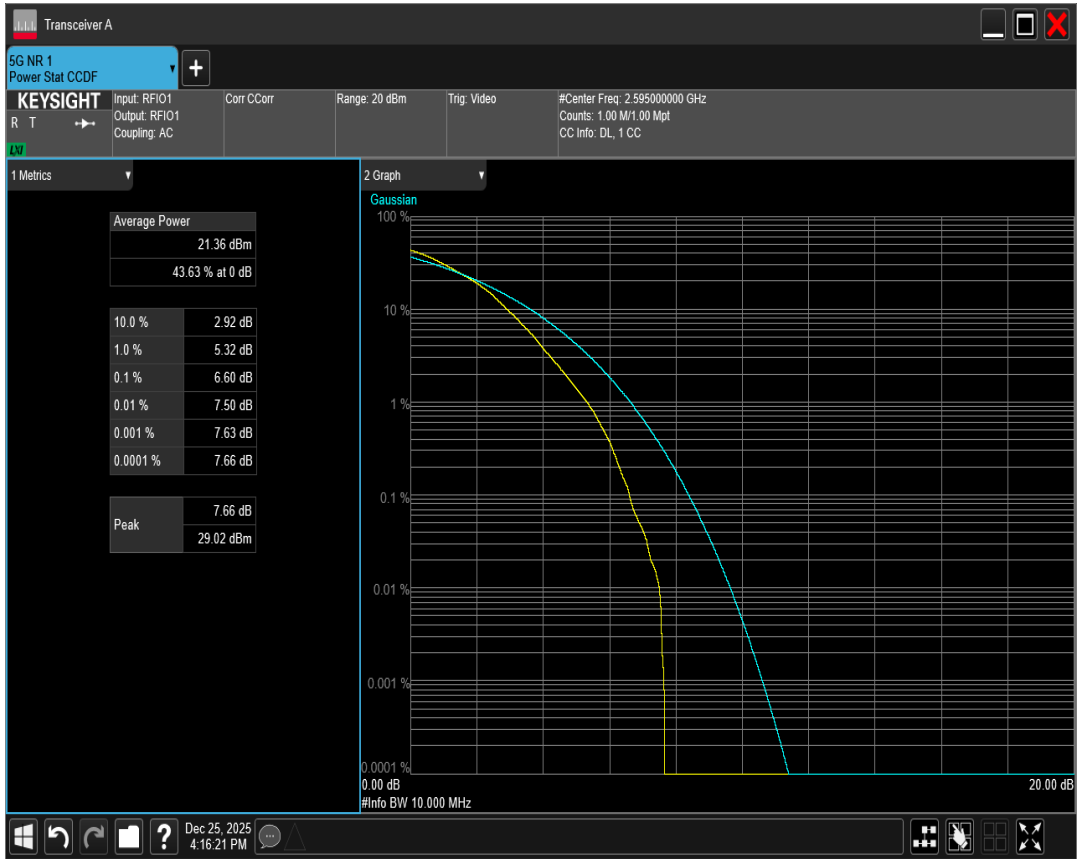
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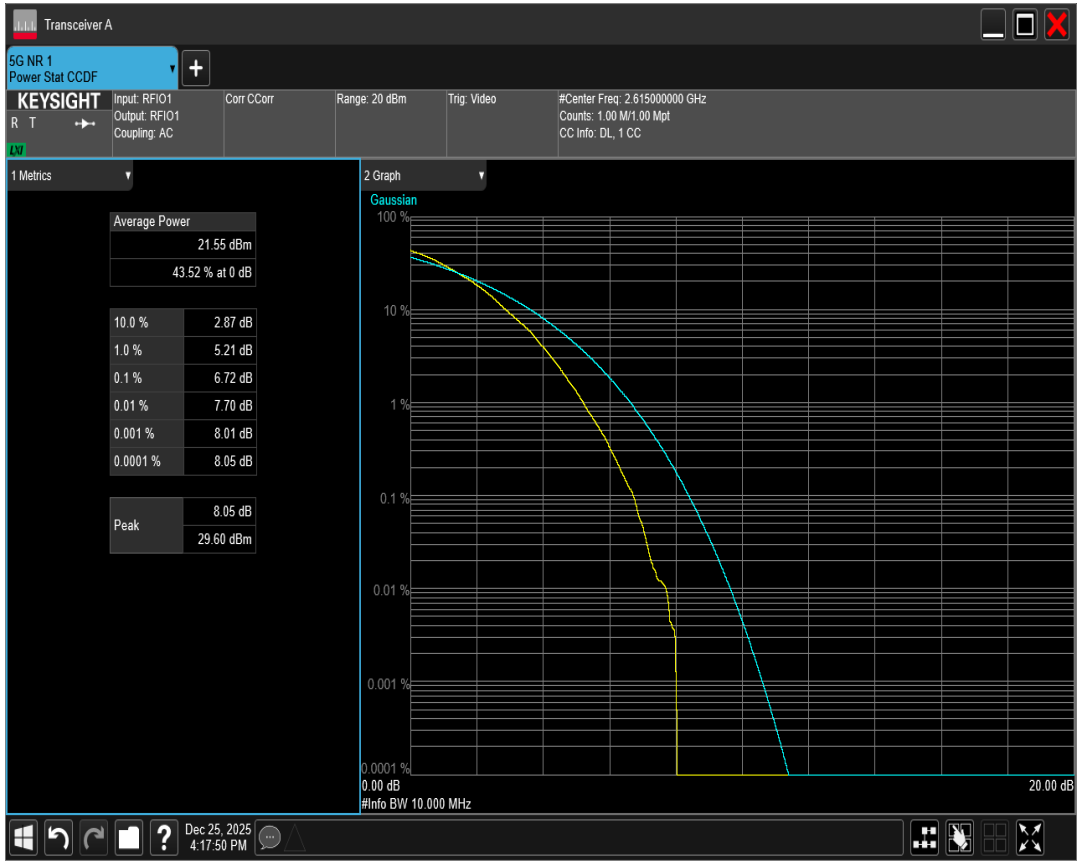
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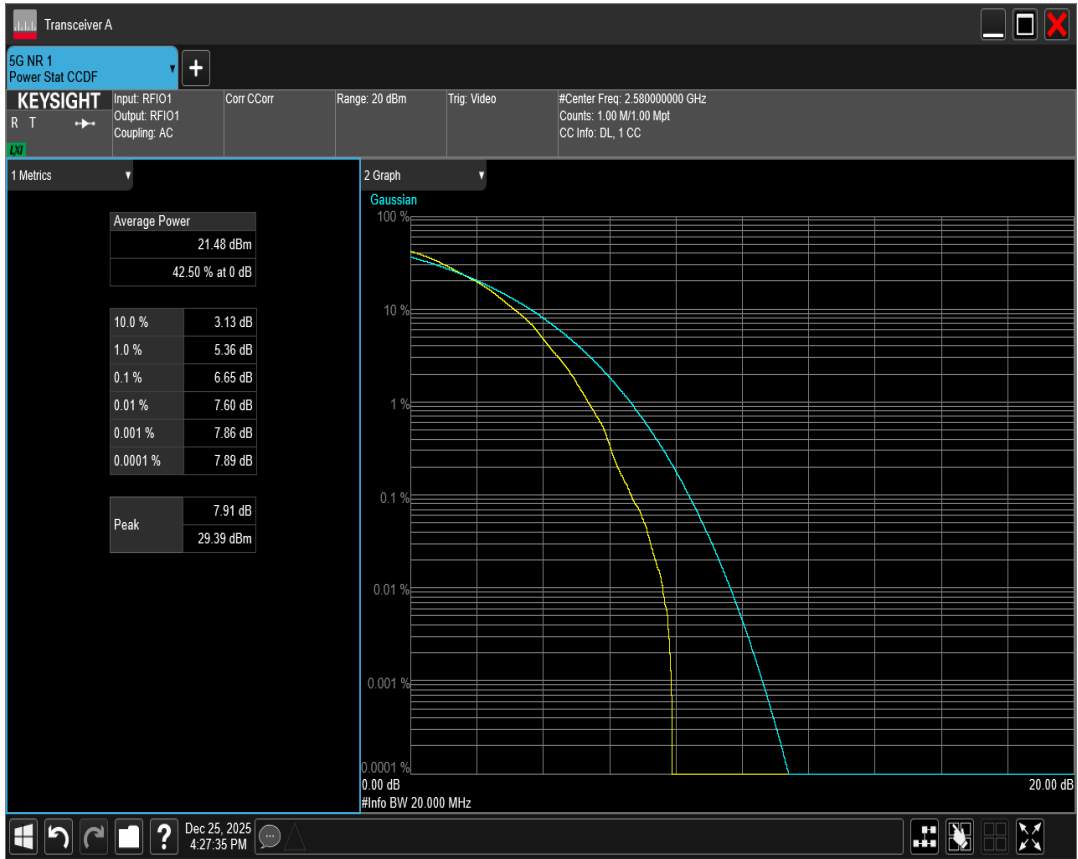
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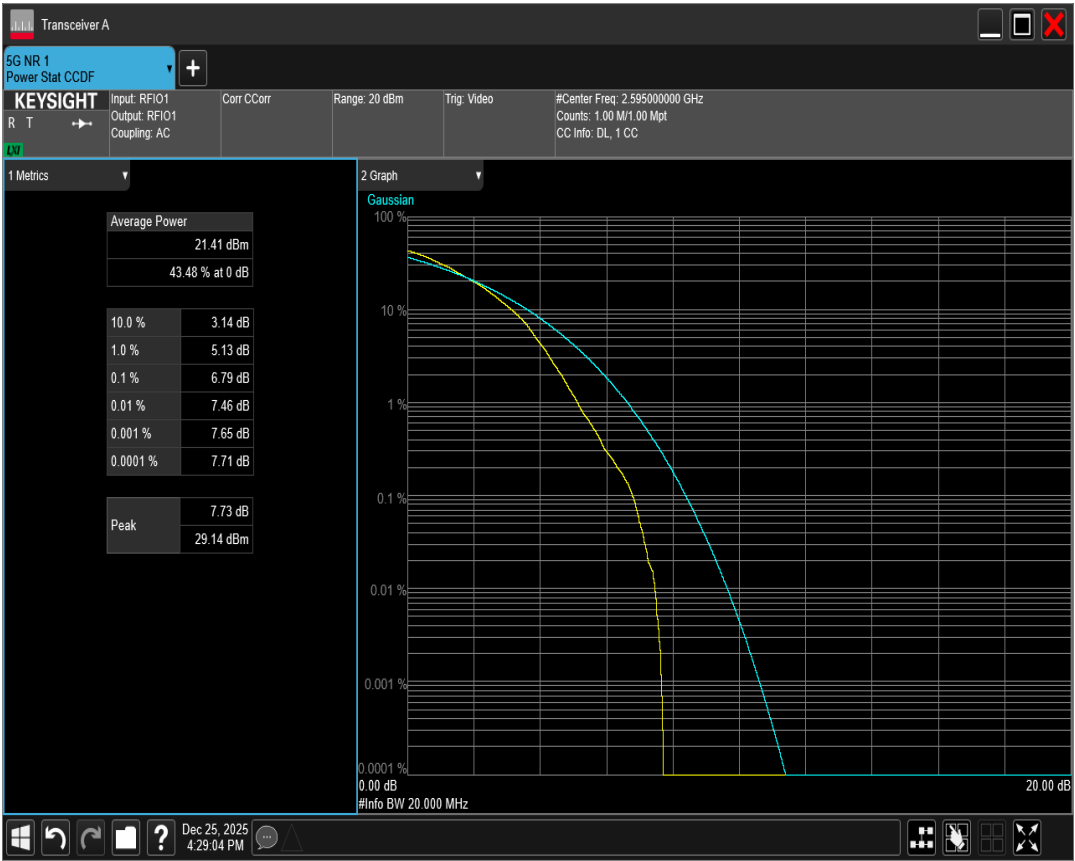
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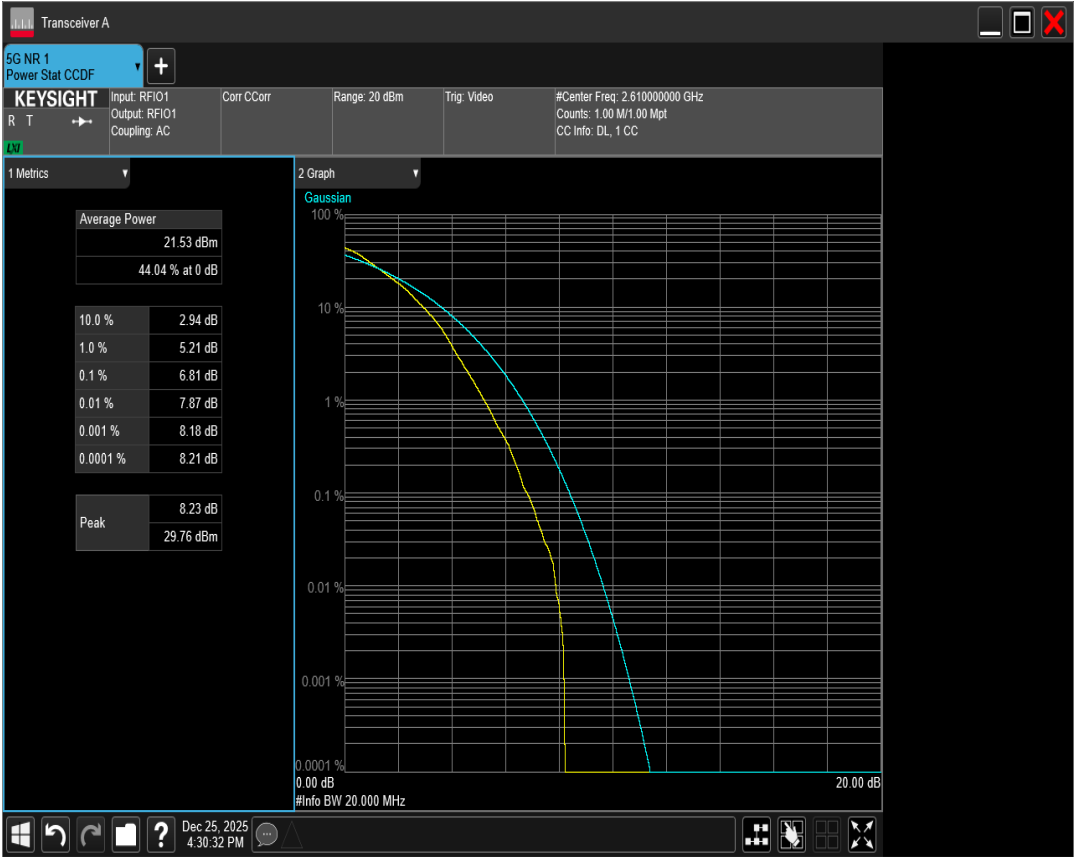
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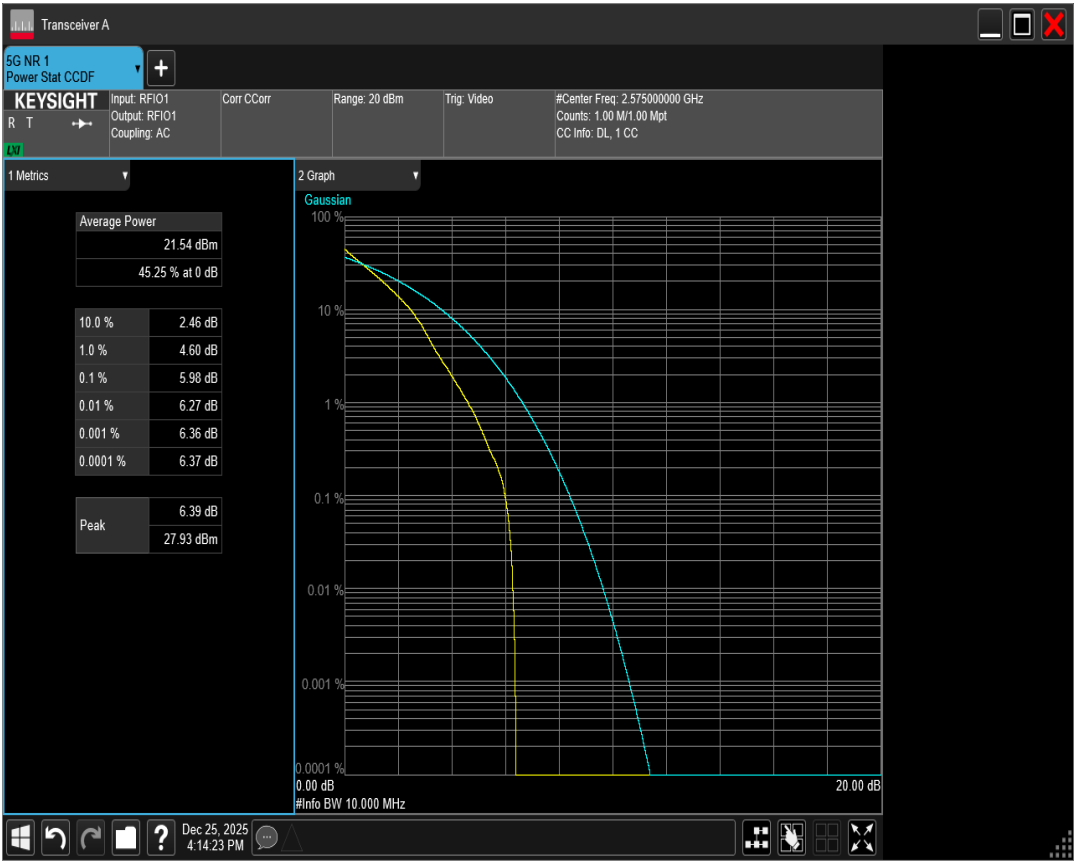
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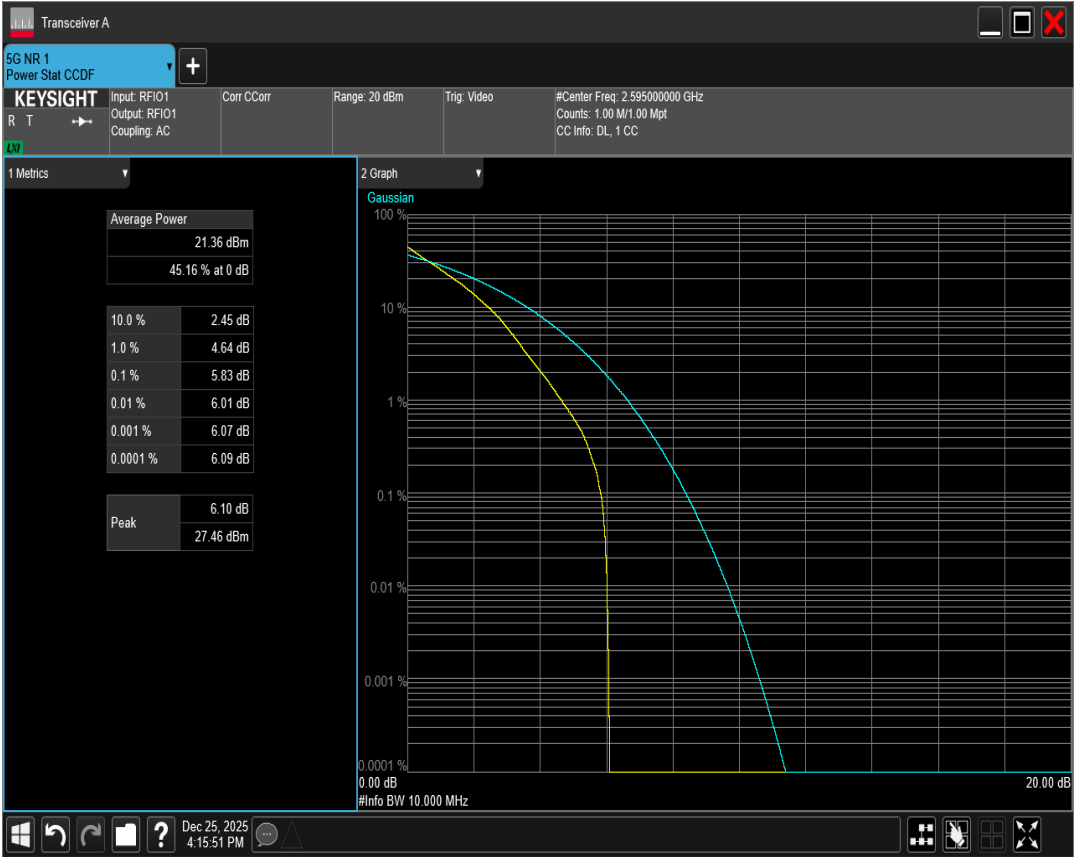
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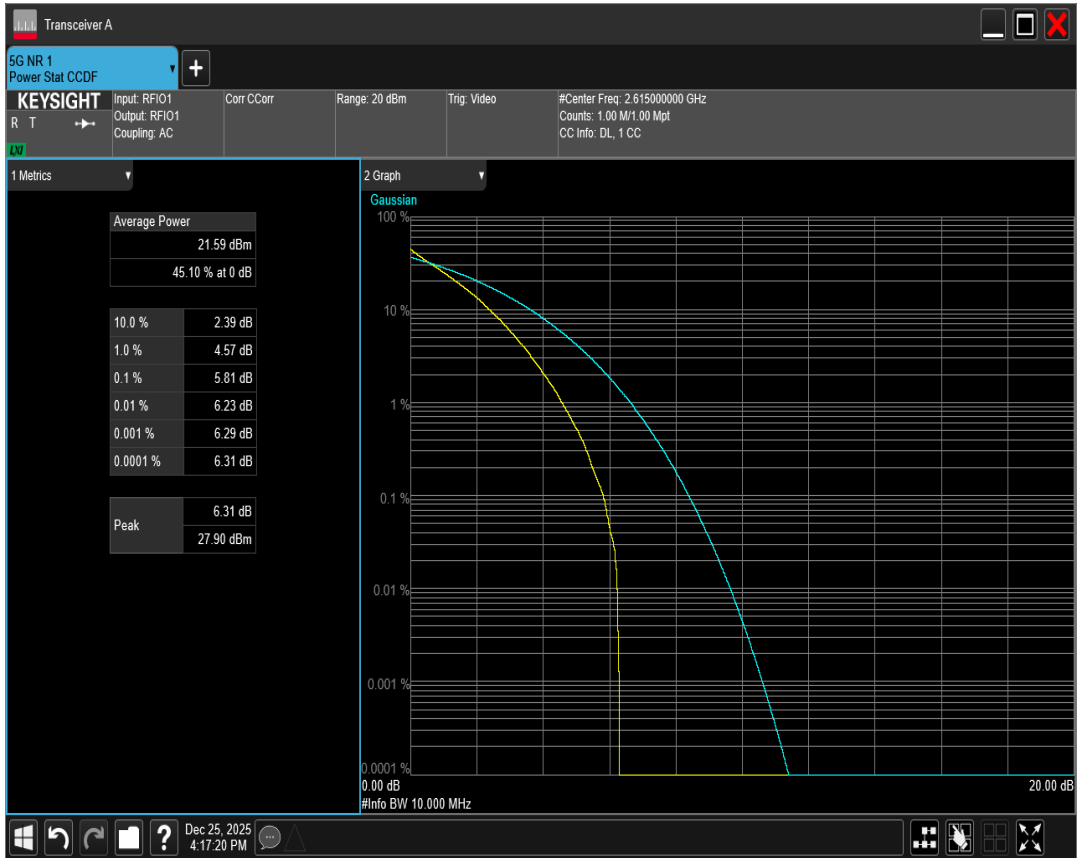
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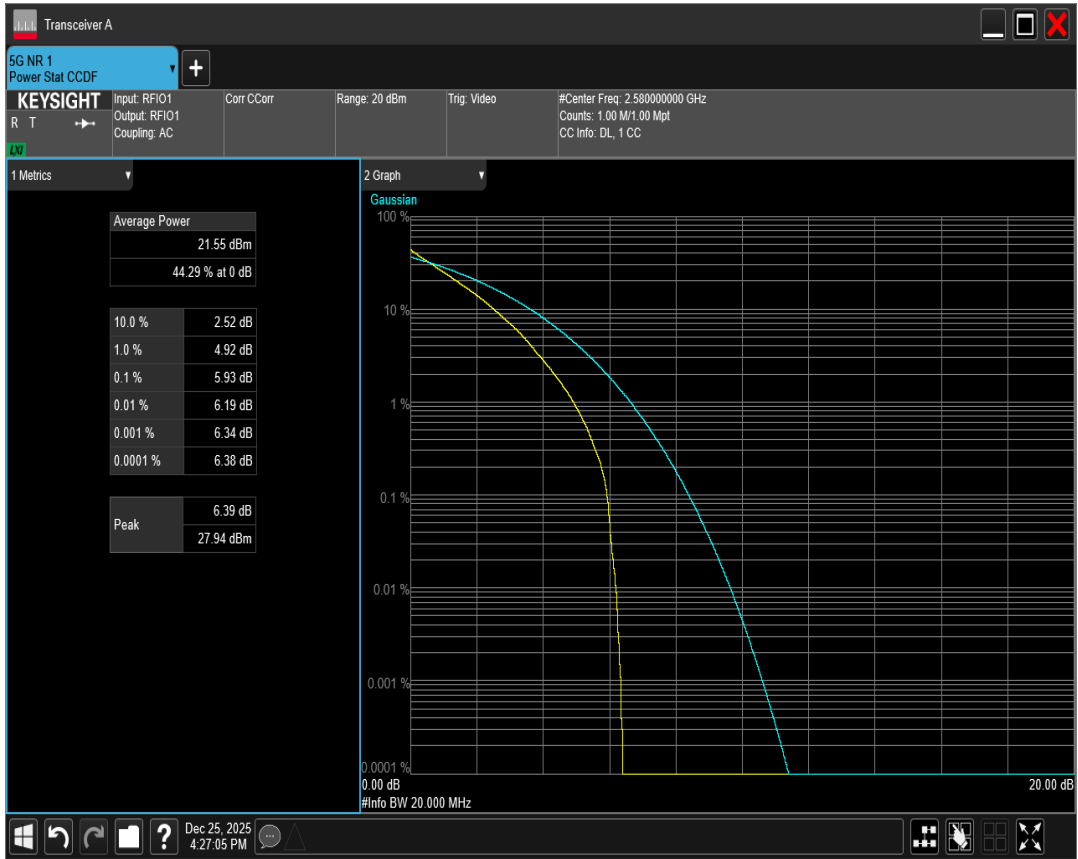
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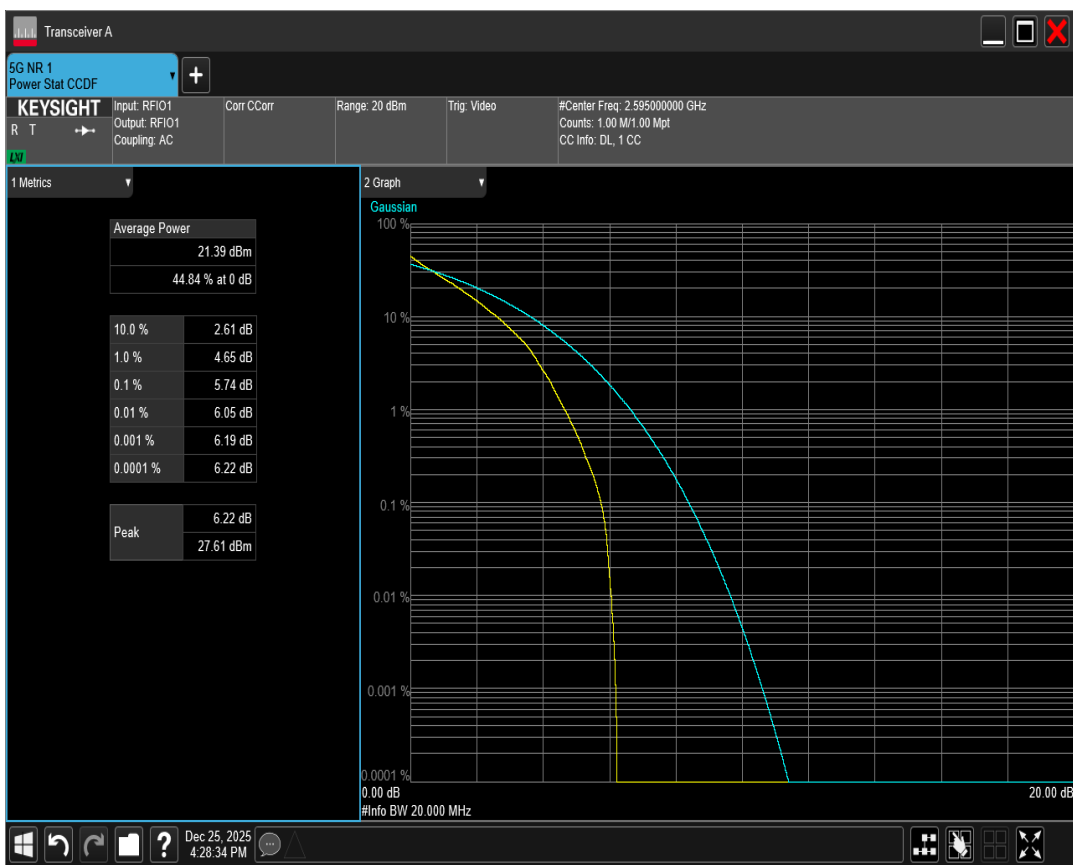
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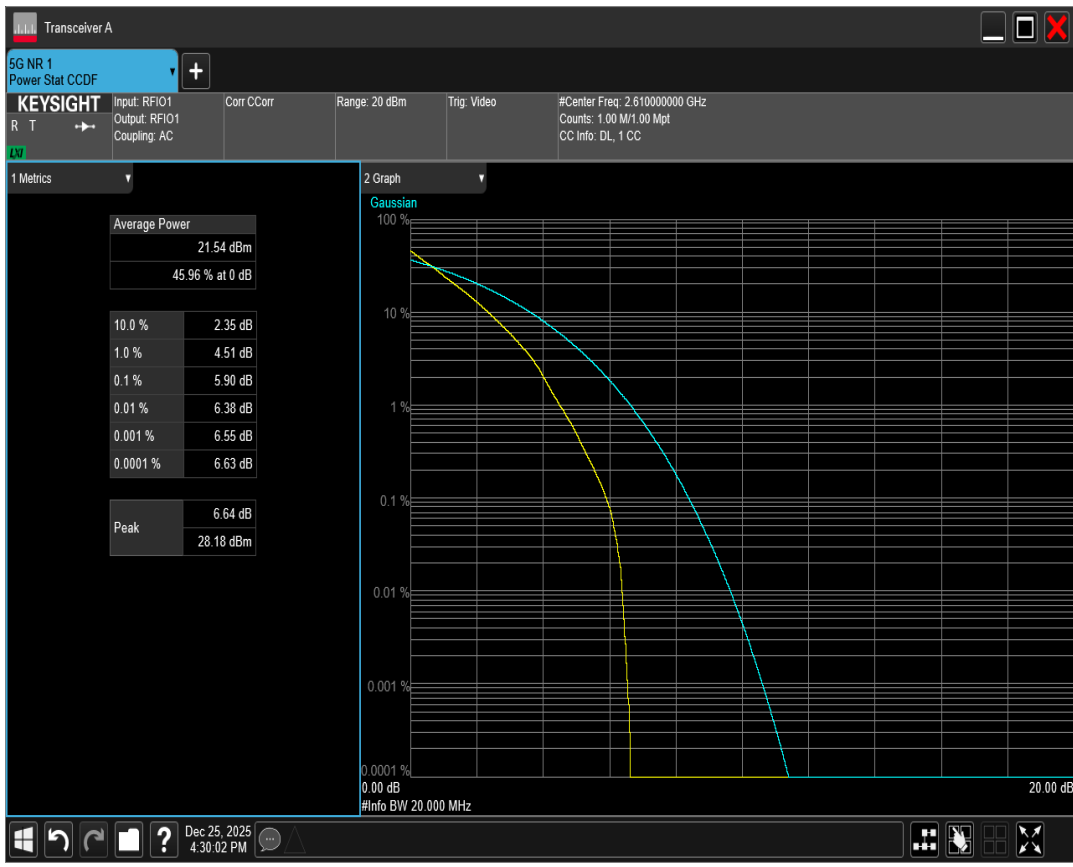
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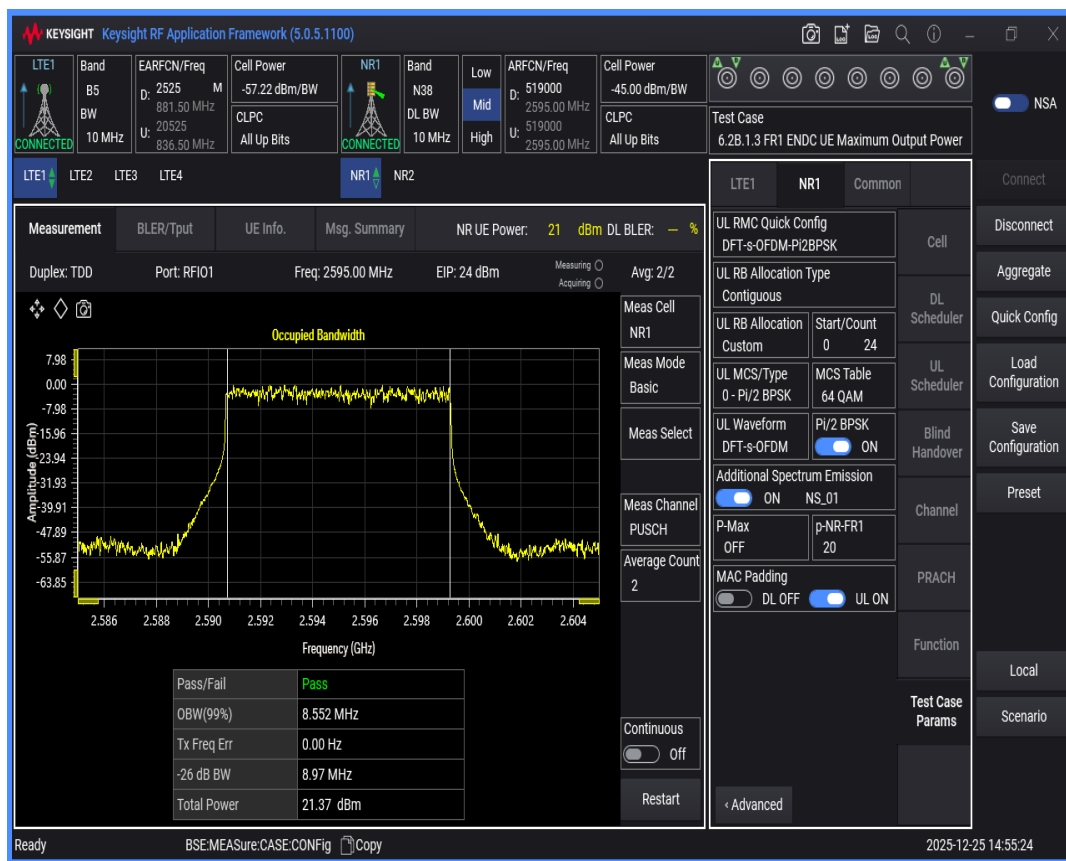
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4 Occupied bandwidth for EN-DC

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	8.550	8.970	PASS
n38	30	10	519000	24@0	DFT_QPSK	8.560	9.180	PASS
n38	30	10	519000	24@0	DFT_QAM16	8.560	8.990	PASS
n38	30	10	519000	24@0	DFT_QAM64	8.530	8.910	PASS
n38	30	10	519000	24@0	DFT_QAM256	8.580	9.070	PASS
n38	30	20	519000	50@0	DFT_BPSK	18.060	18.440	PASS
n38	30	20	519000	50@0	DFT_QPSK	18.110	18.390	PASS
n38	30	20	519000	50@0	DFT_QAM16	18.080	18.390	PASS
n38	30	20	519000	50@0	DFT_QAM64	18.030	18.320	PASS
n38	30	20	519000	50@0	DFT_QAM256	18.090	18.310	PASS

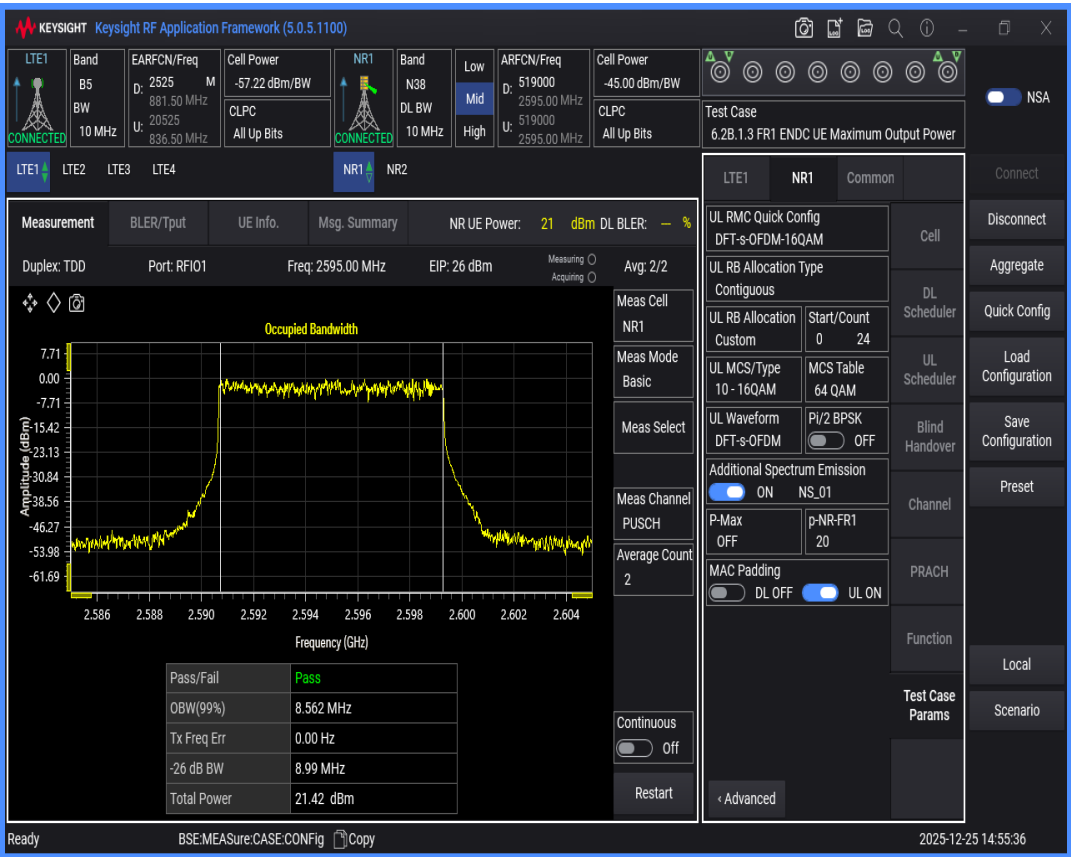
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n38 SCS=30kHz DFT_BPSK BW=20MHz Channel=519000 RB=50@0



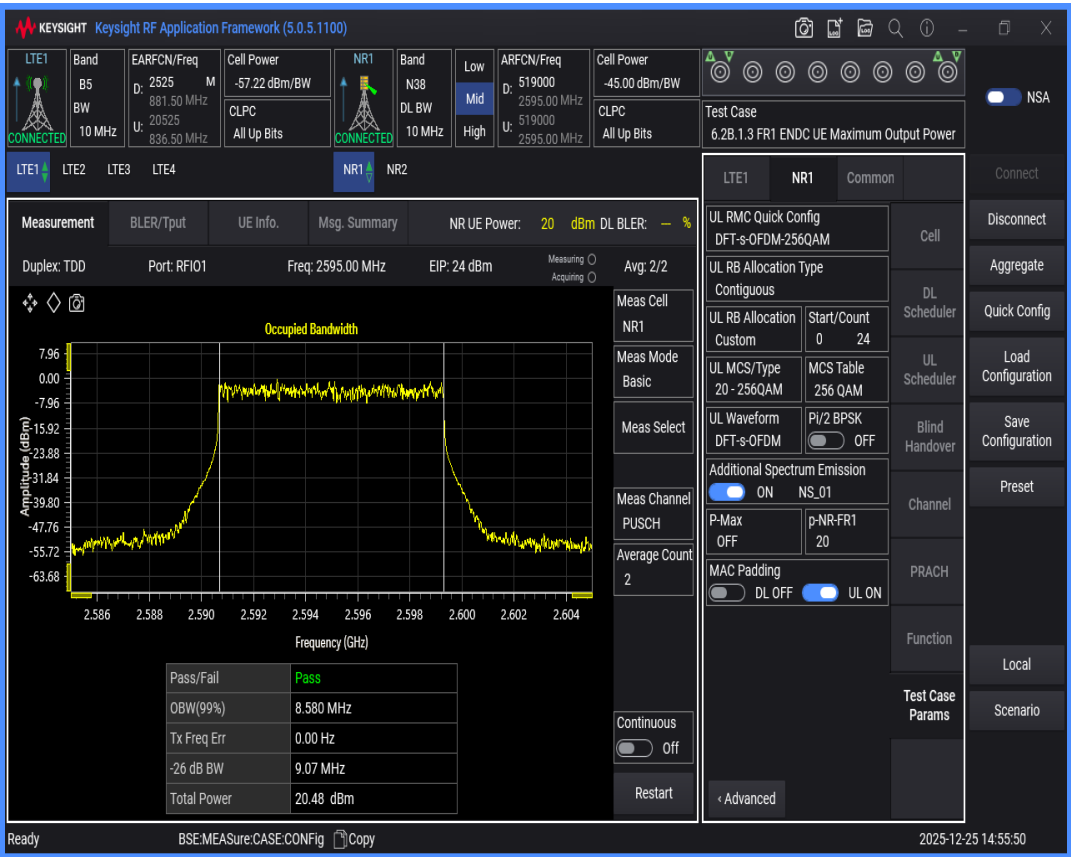
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n38 SCS=30kHz DFT_QAM16 BW=20MHz Channel=519000 RB=50@0



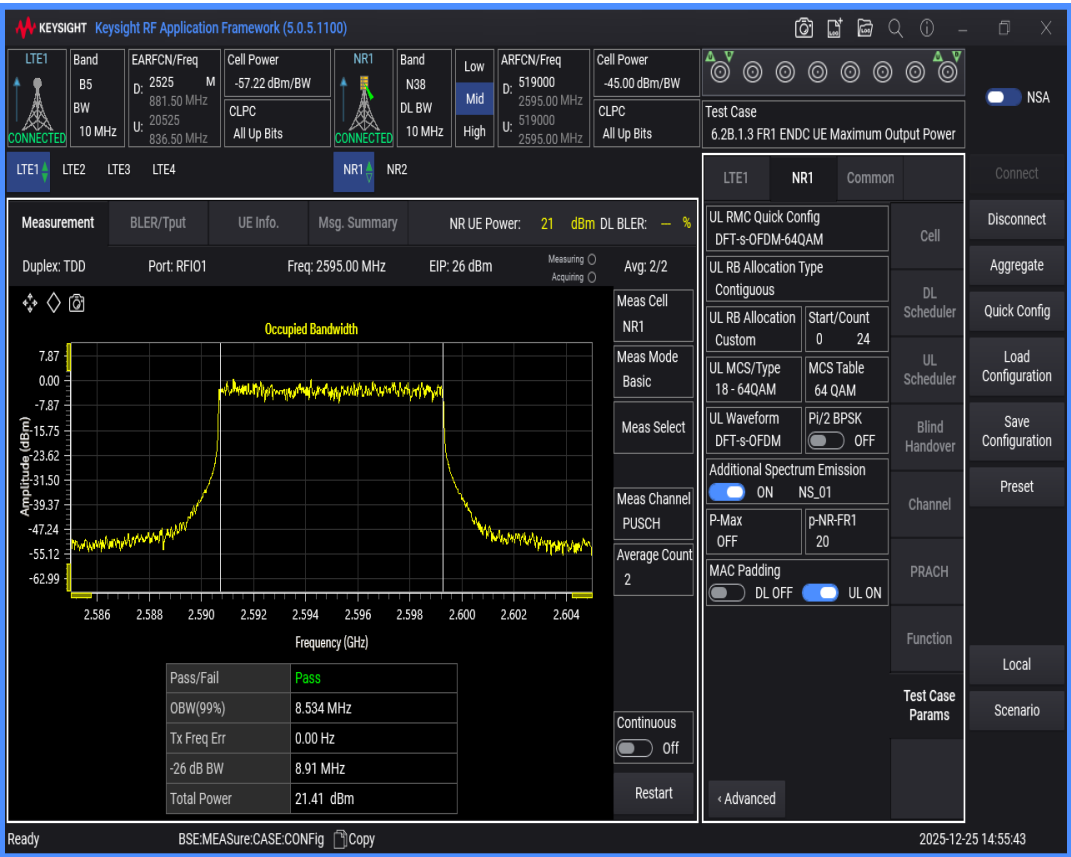
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n38 SCS=30kHz DFT_QAM256 BW=20MHz Channel=519000 RB=50@0



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



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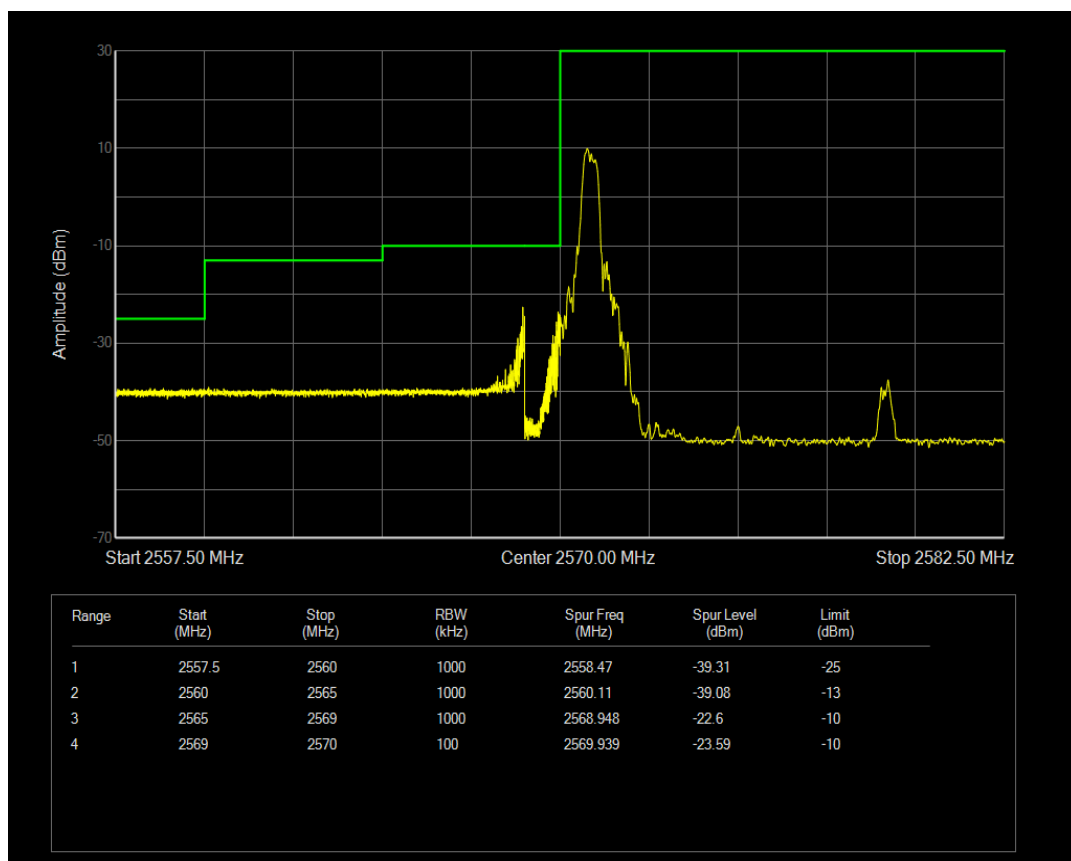
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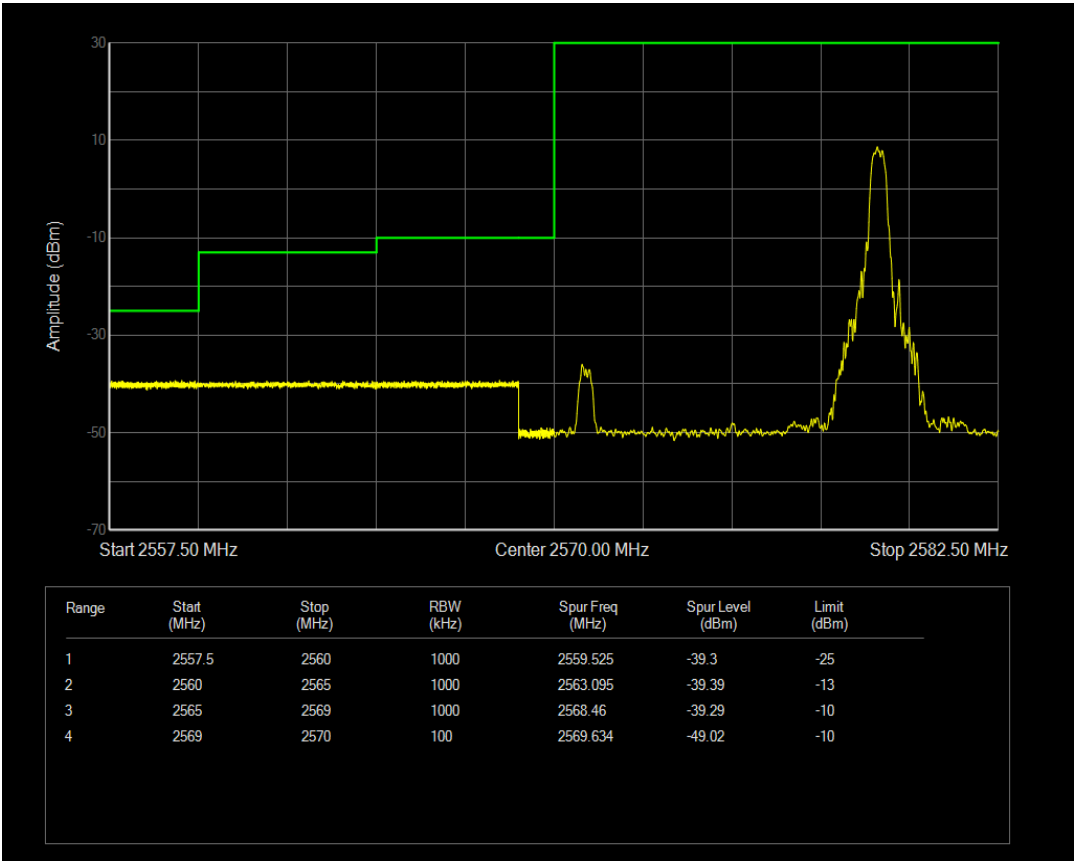
5 Band edge for EN-DC

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	2559.78	-38.62	-25	PASS
n38	30	10	515000	1@0	CP_QPSK	2568.95	-22.60	-10	PASS
n38	30	10	515000	1@23	CP_QPSK	2559.53	-39.30	-25	PASS
n38	30	10	523000	24@0	CP_QPSK	2630.92	-38.56	-25	PASS
n38	30	10	523000	1@0	CP_QPSK	2632.49	-39.01	-25	PASS
n38	30	10	523000	1@23	CP_QPSK	2620.01	-21.48	-10	PASS
n38	30	20	516000	51@0	CP_QPSK	2549.40	-38.83	-25	PASS
n38	30	20	516000	1@0	CP_QPSK	2546.01	-39.35	-25	PASS
n38	30	20	516000	1@50	CP_QPSK	2545.18	-39.29	-25	PASS
n38	30	20	522000	51@0	CP_QPSK	2641.21	-38.09	-25	PASS
n38	30	20	522000	1@0	CP_QPSK	2640.42	-38.96	-25	PASS
n38	30	20	522000	1@50	CP_QPSK	2640.18	-38.96	-25	PASS

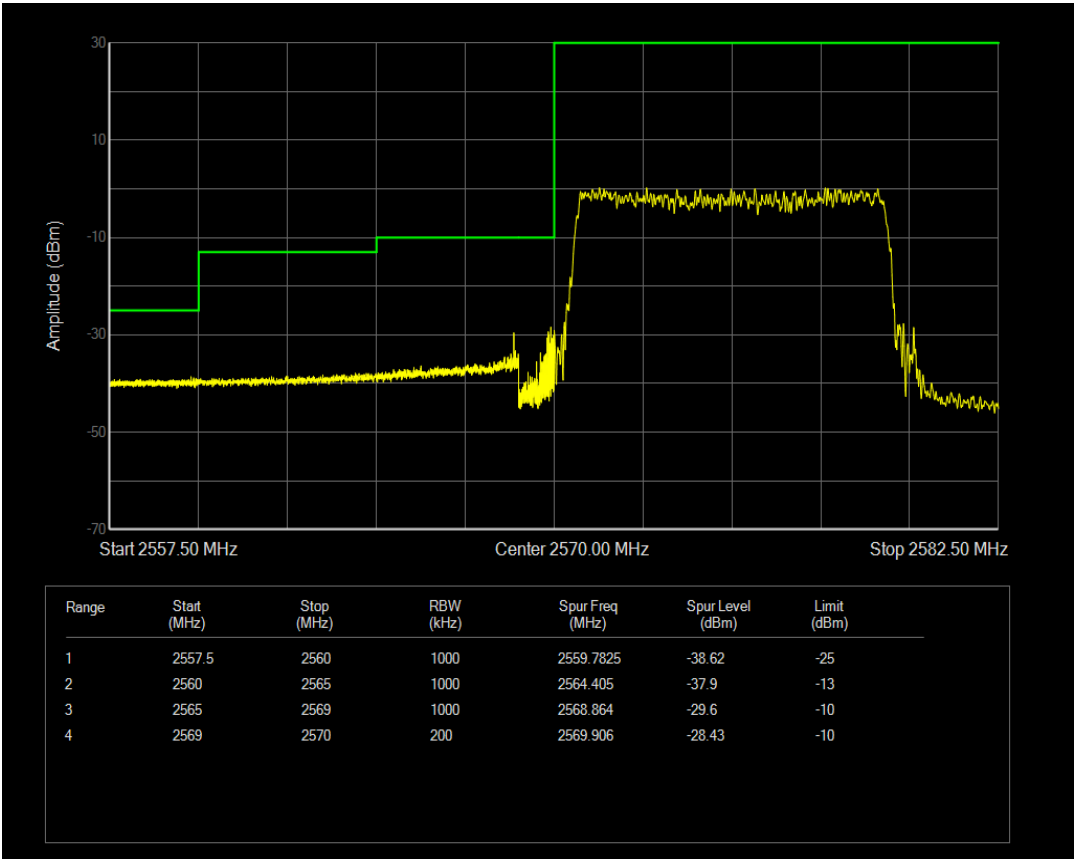
n38 SCS=30kHz CP_QPSK BW=10MHz Channel=515000 RB=1@0



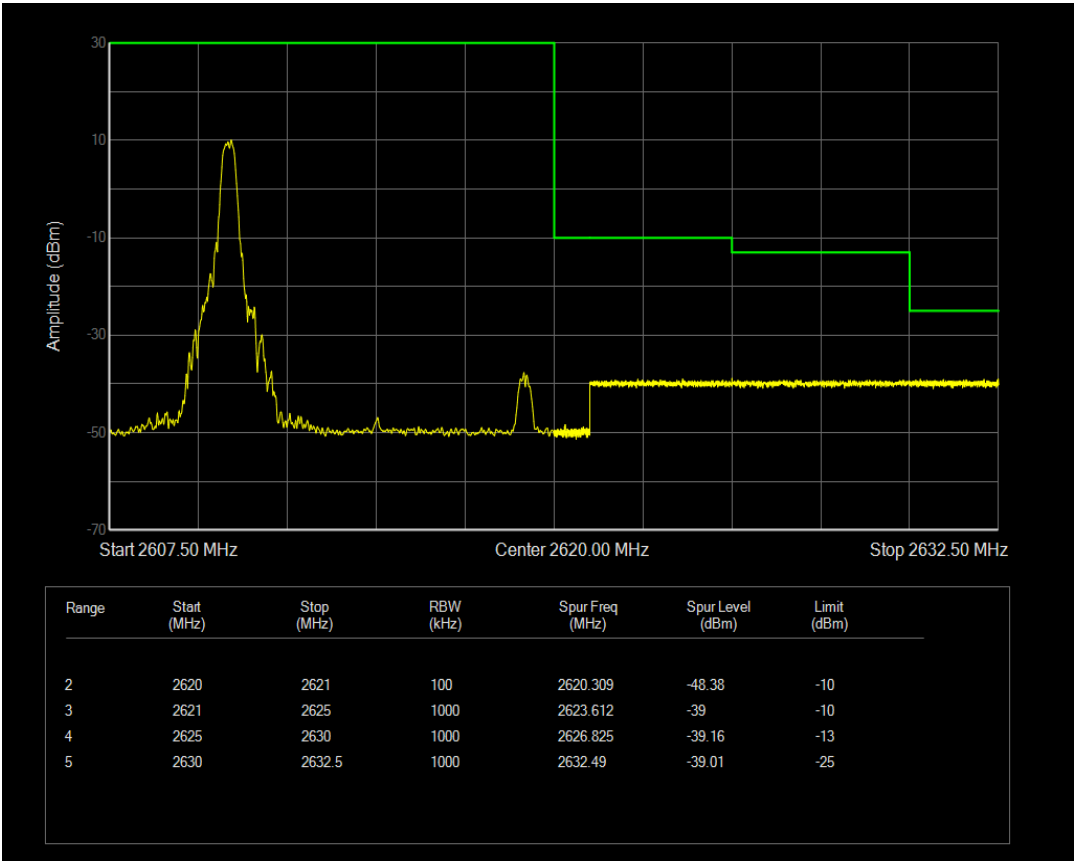
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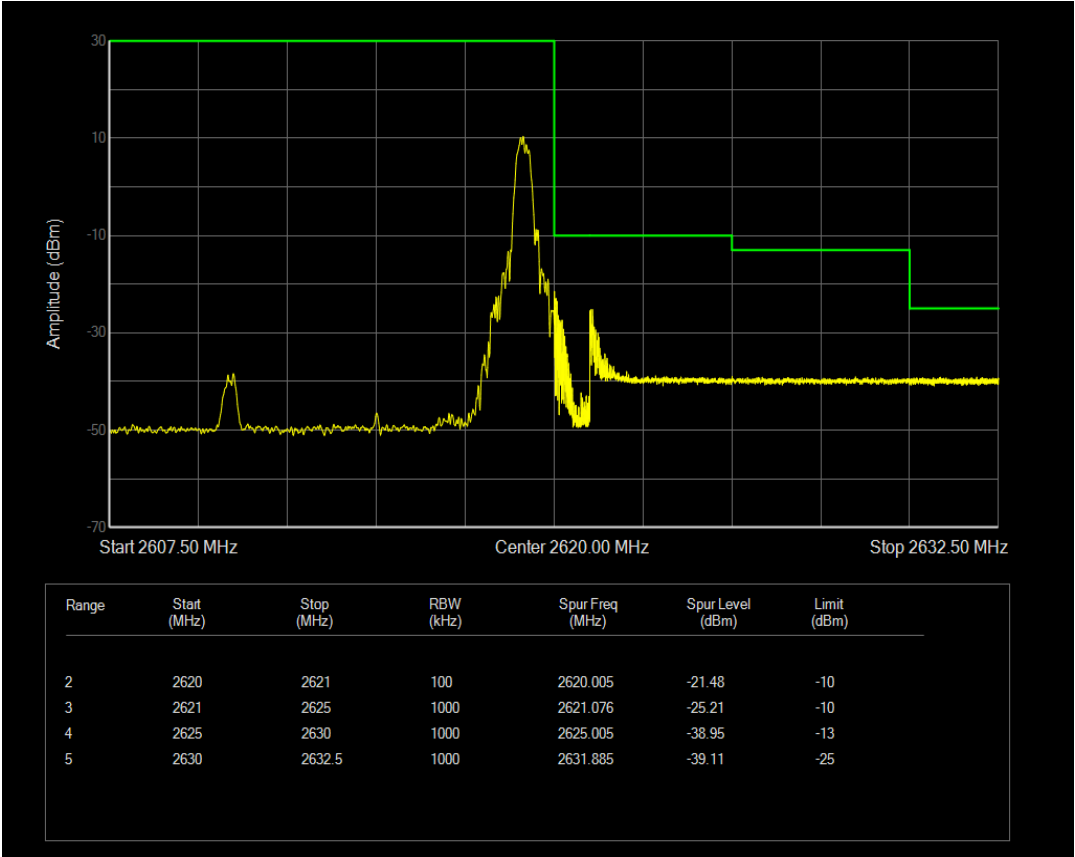
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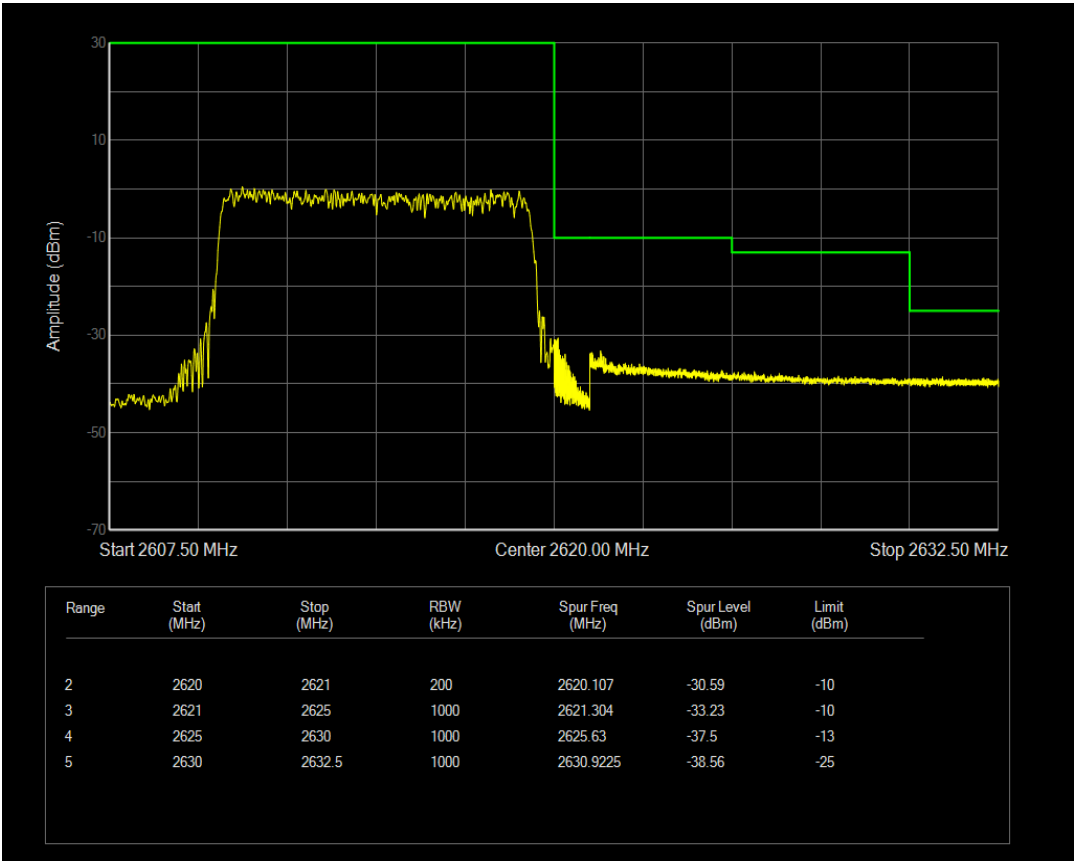
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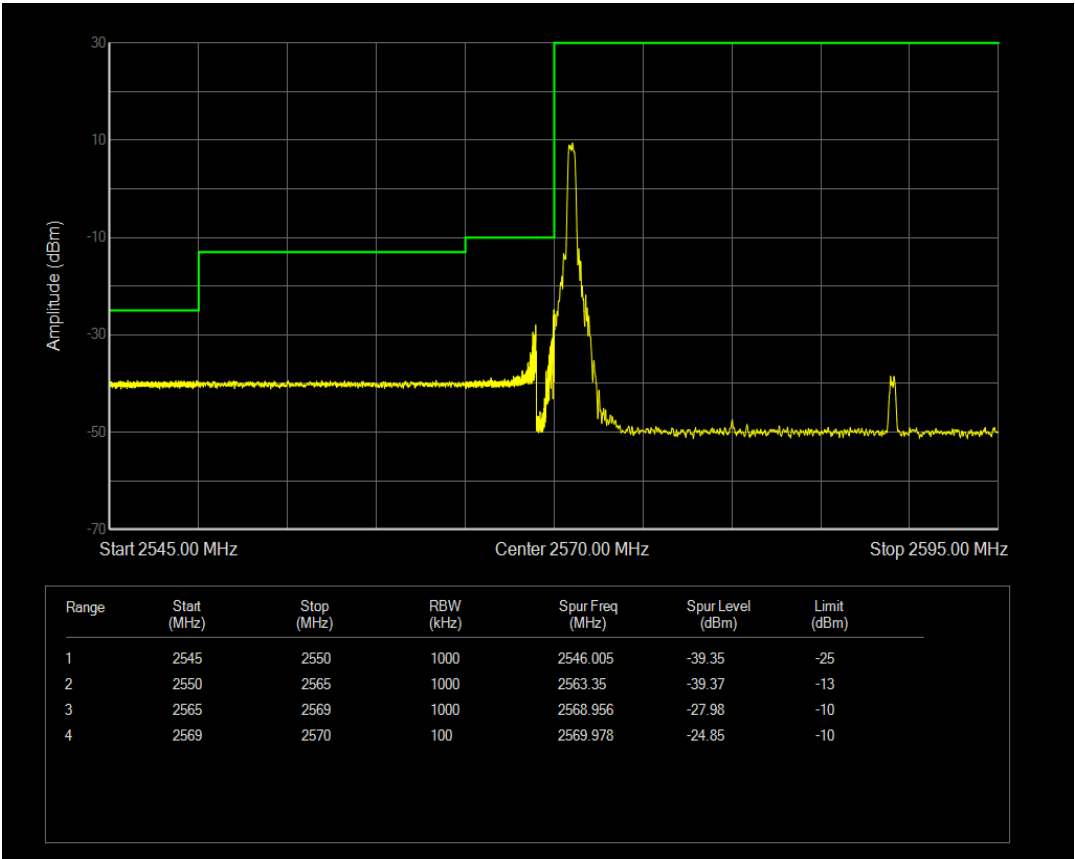
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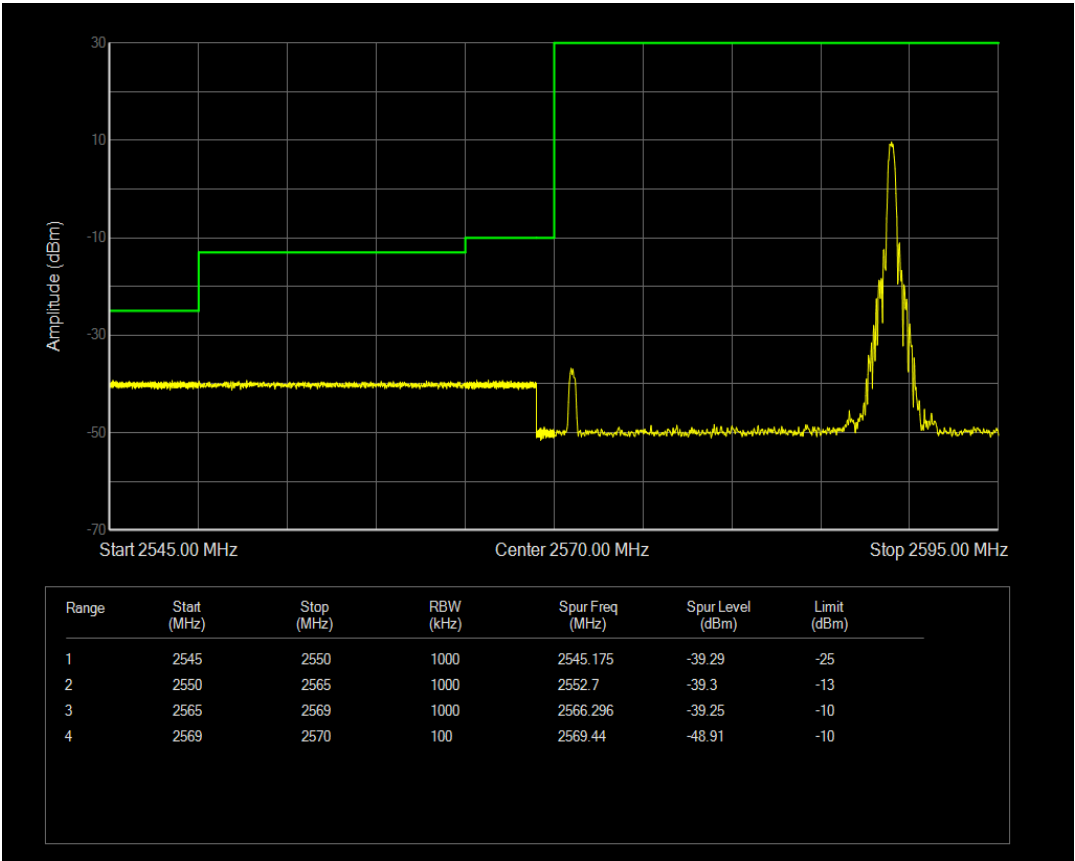
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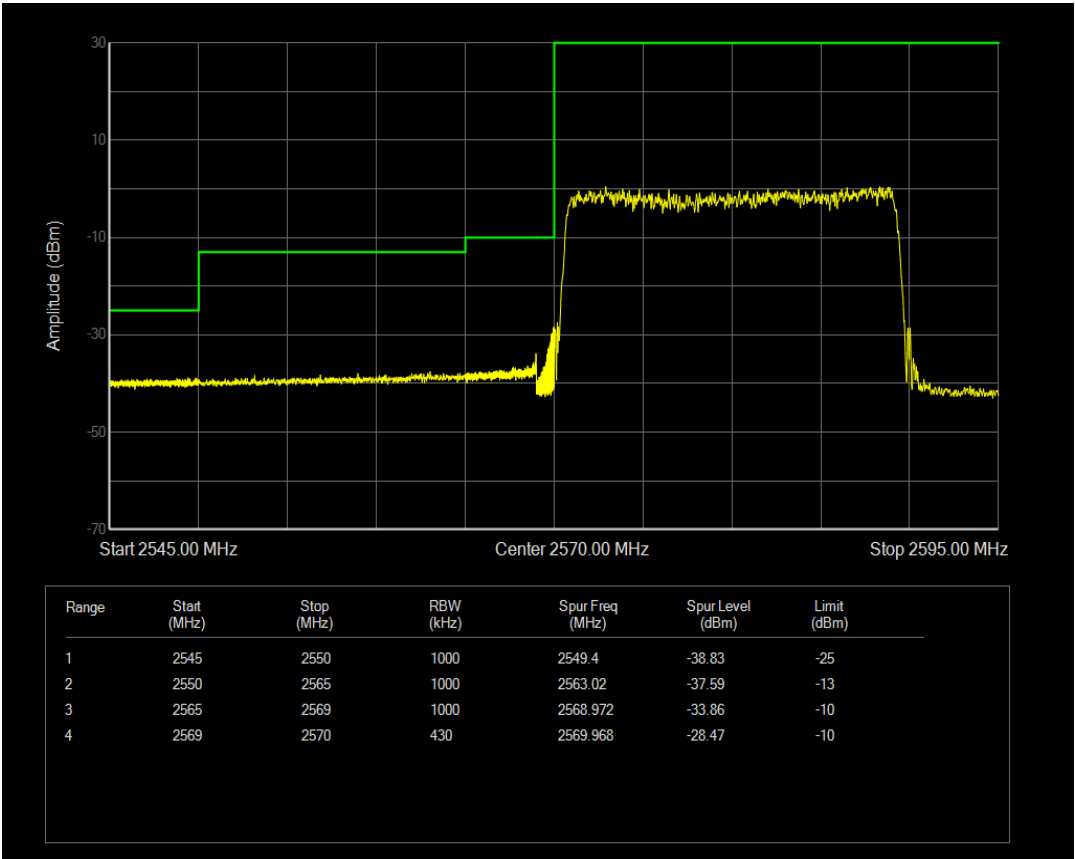
n38 SCS=30kHz CP_QPSK BW=20MHz Channel=516000 RB=1@0



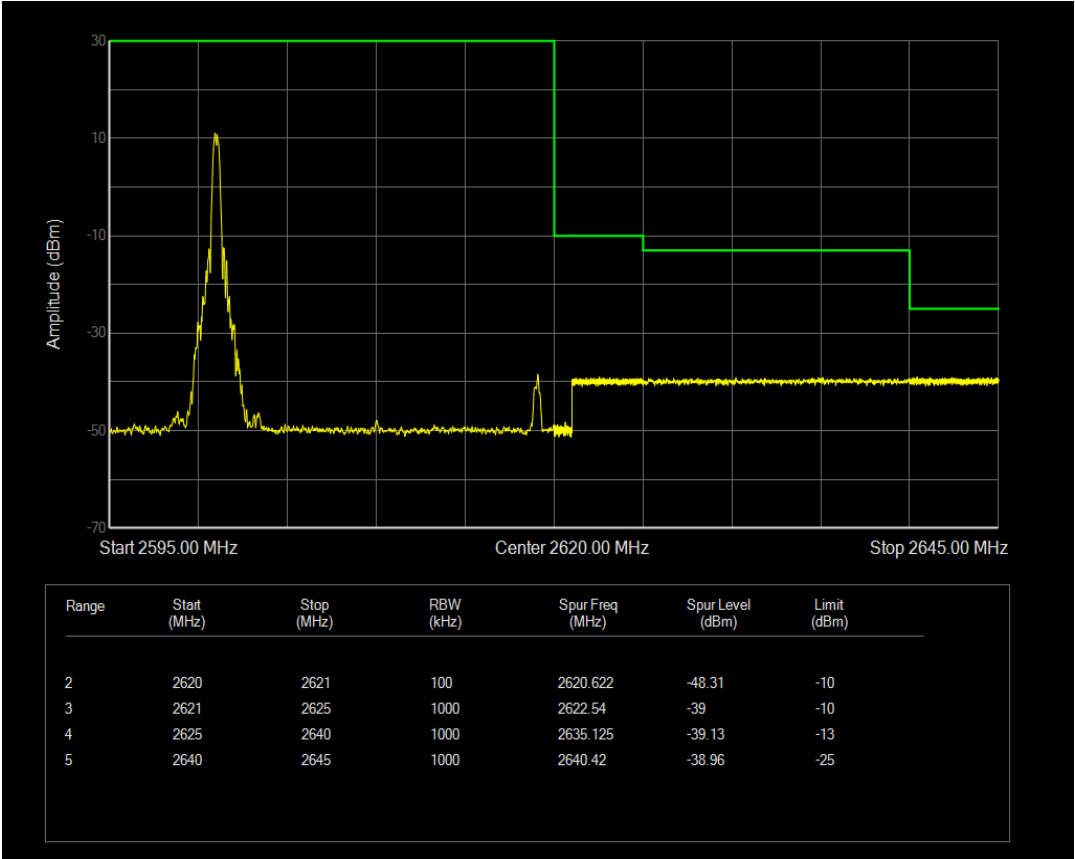
n38 SCS=30kHz CP_QPSK BW=20MHz Channel=516000 RB=1@50



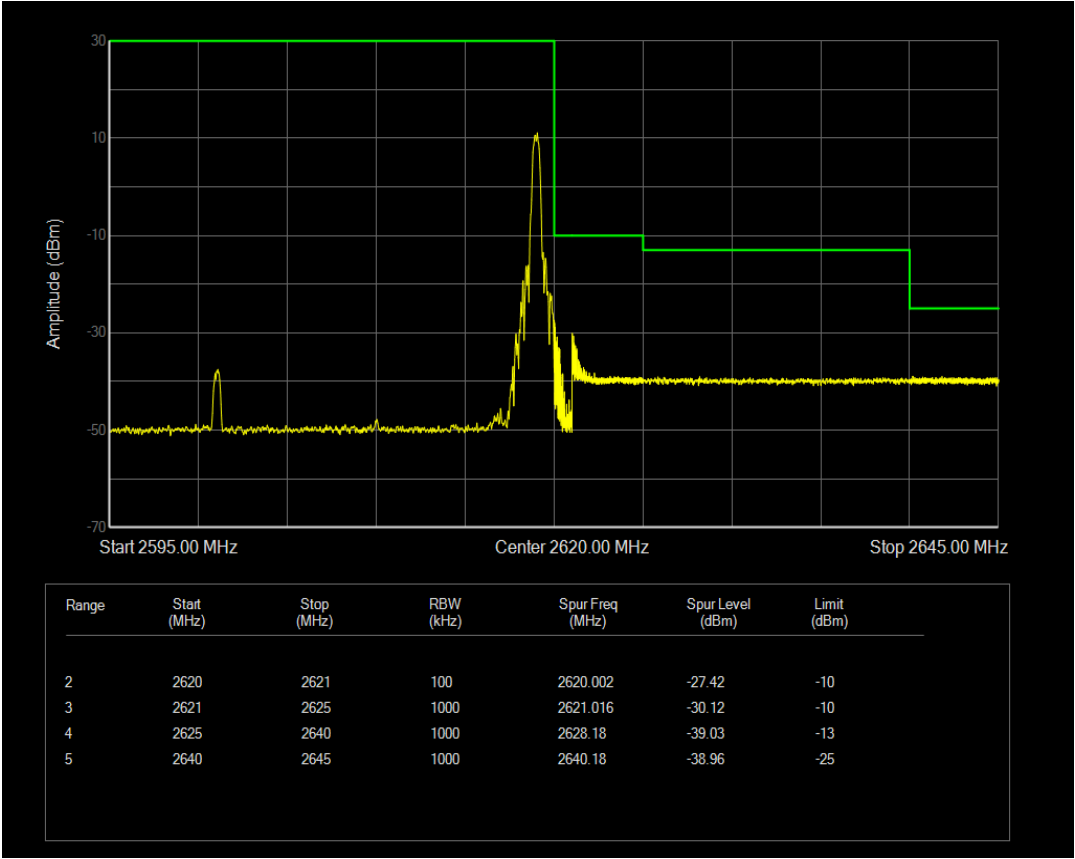
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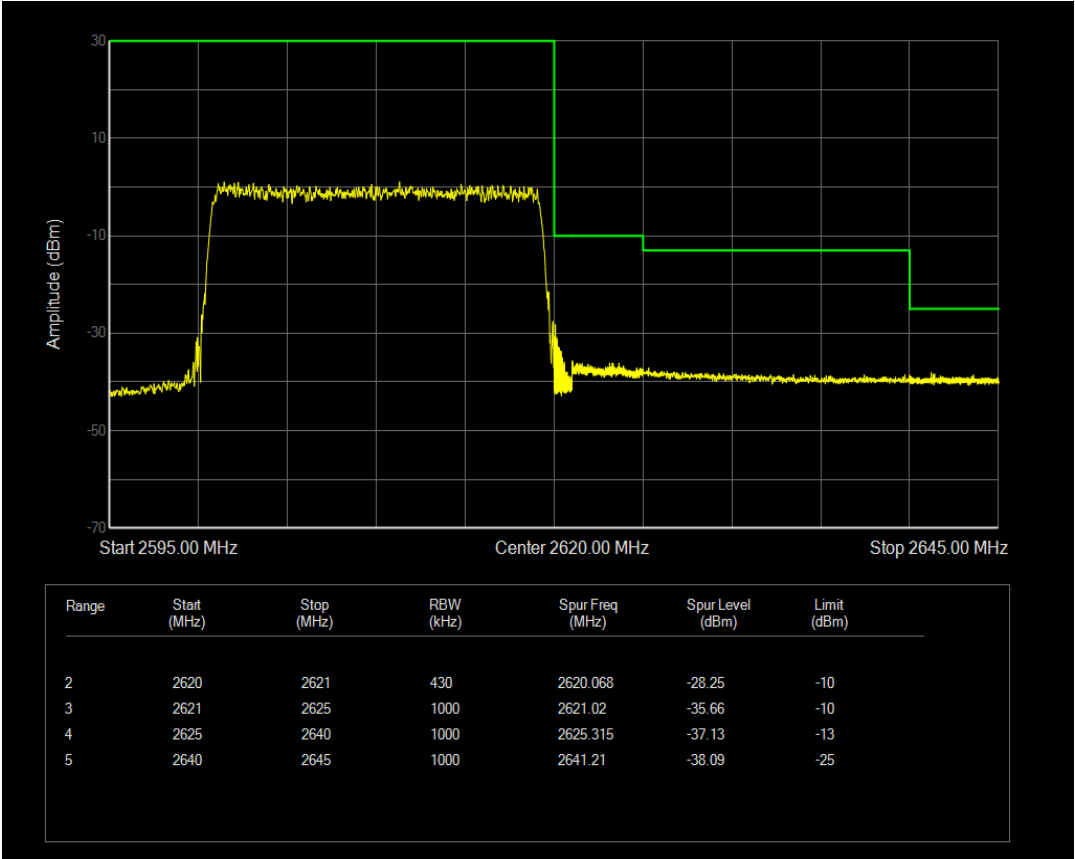
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n38 SCS=30kHz CP_QPSK BW=20MHz Channel=522000 RB=1@50



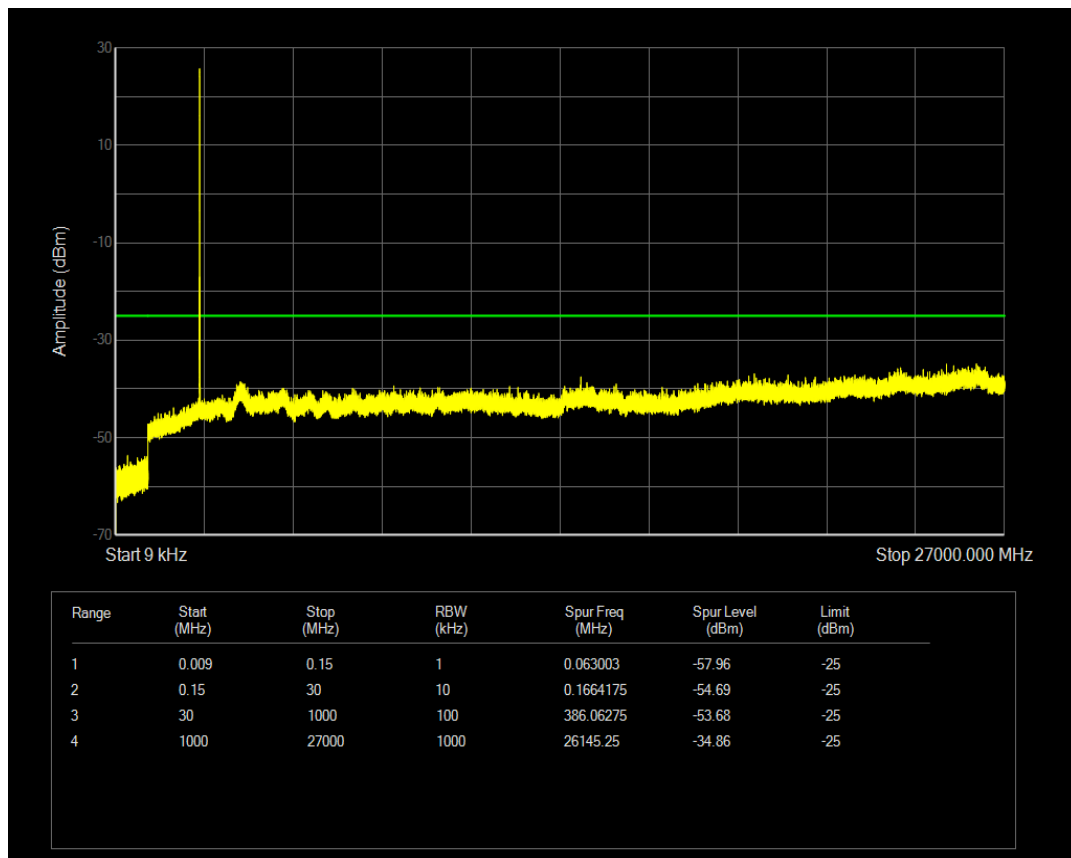
n38 SCS=30kHz CP_QPSK BW=20MHz Channel=522000 RB=51@0



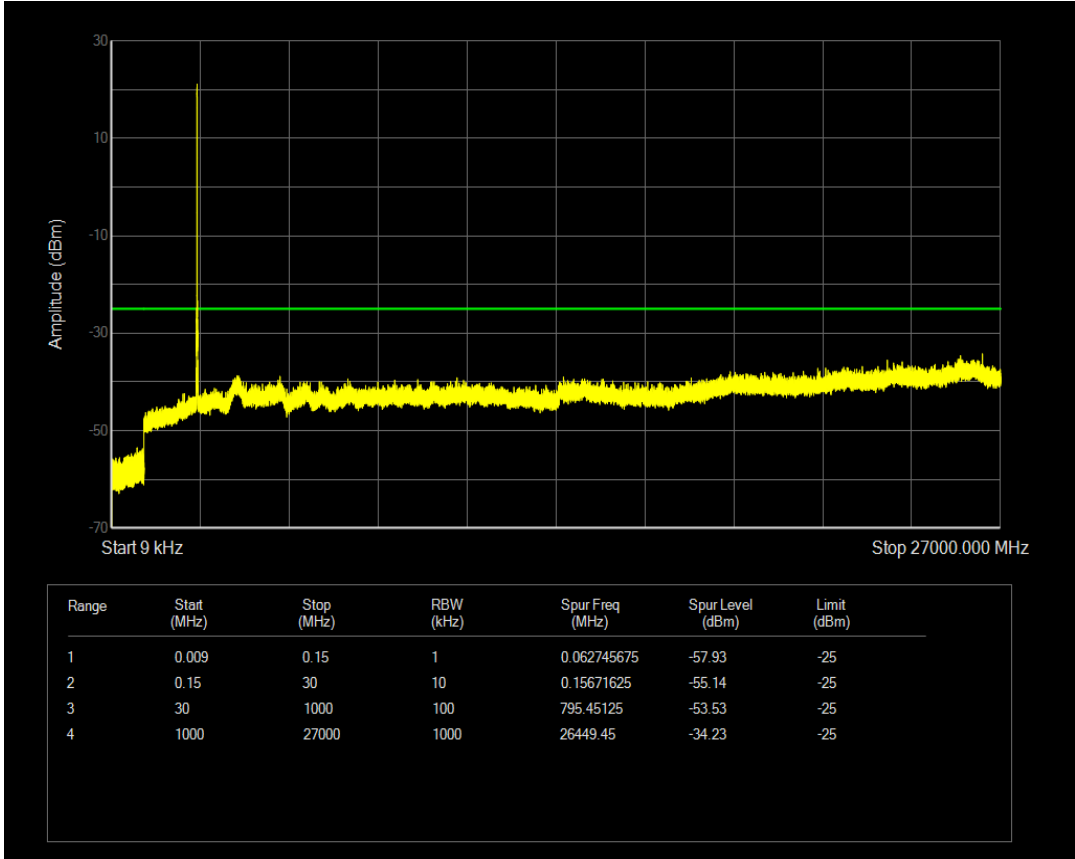
6 Out-of-band emissions for EN-DC

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	25815.05	-33.42	-25	PASS
n38	30	10	515000	1@0	CP_QPSK	26145.25	-34.86	-25	PASS
n38	30	10	515000	1@23	CP_QPSK	25717.55	-35.16	-25	PASS
n38	30	10	523000	24@0	CP_QPSK	26449.45	-34.23	-25	PASS
n38	30	10	523000	1@0	CP_QPSK	25551.15	-34.84	-25	PASS
n38	30	10	523000	1@23	CP_QPSK	25357.45	-34.50	-25	PASS
n38	30	20	516000	51@0	CP_QPSK	26188.80	-34.91	-25	PASS
n38	30	20	516000	1@0	CP_QPSK	25724.05	-34.26	-25	PASS
n38	30	20	516000	1@50	CP_QPSK	26255.75	-34.63	-25	PASS
n38	30	20	522000	51@0	CP_QPSK	25833.90	-34.58	-25	PASS
n38	30	20	522000	1@0	CP_QPSK	26096.50	-34.30	-25	PASS
n38	30	20	522000	1@50	CP_QPSK	25726.65	-34.99	-25	PASS

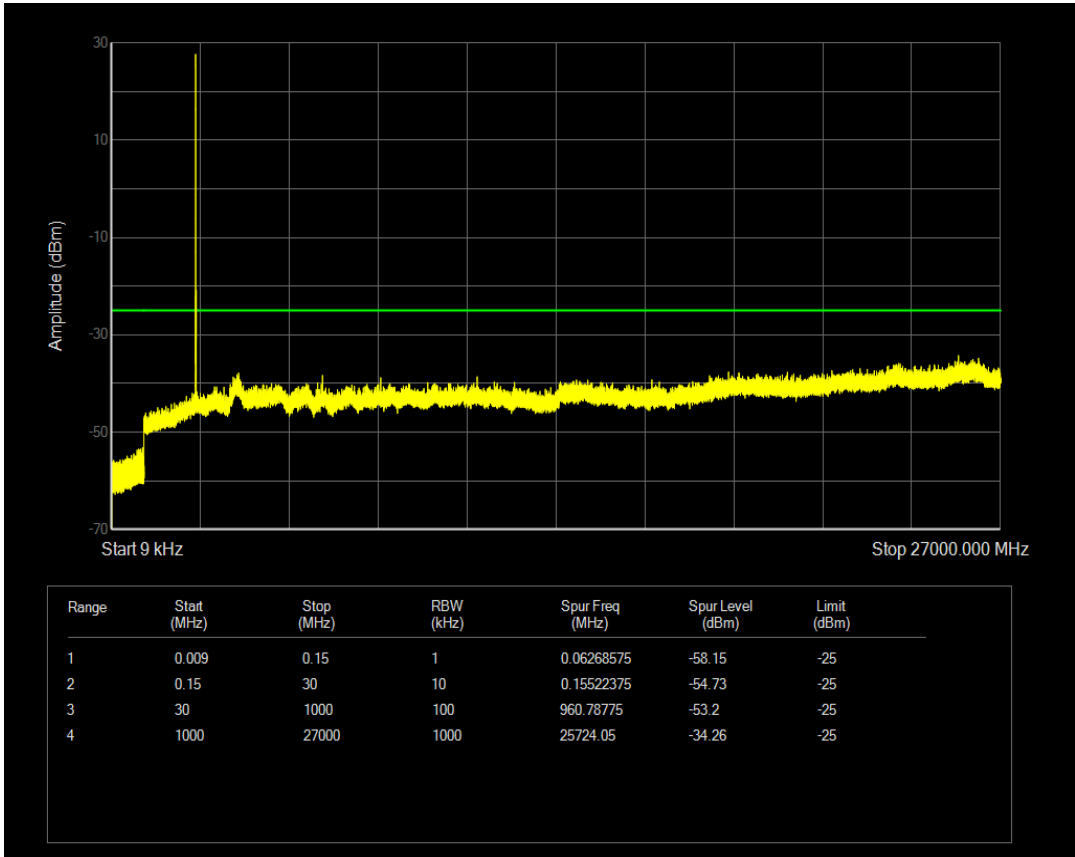
n38 SCS=30kHz CP_QPSK BW=10MHz Channel=515000 RB=1@0



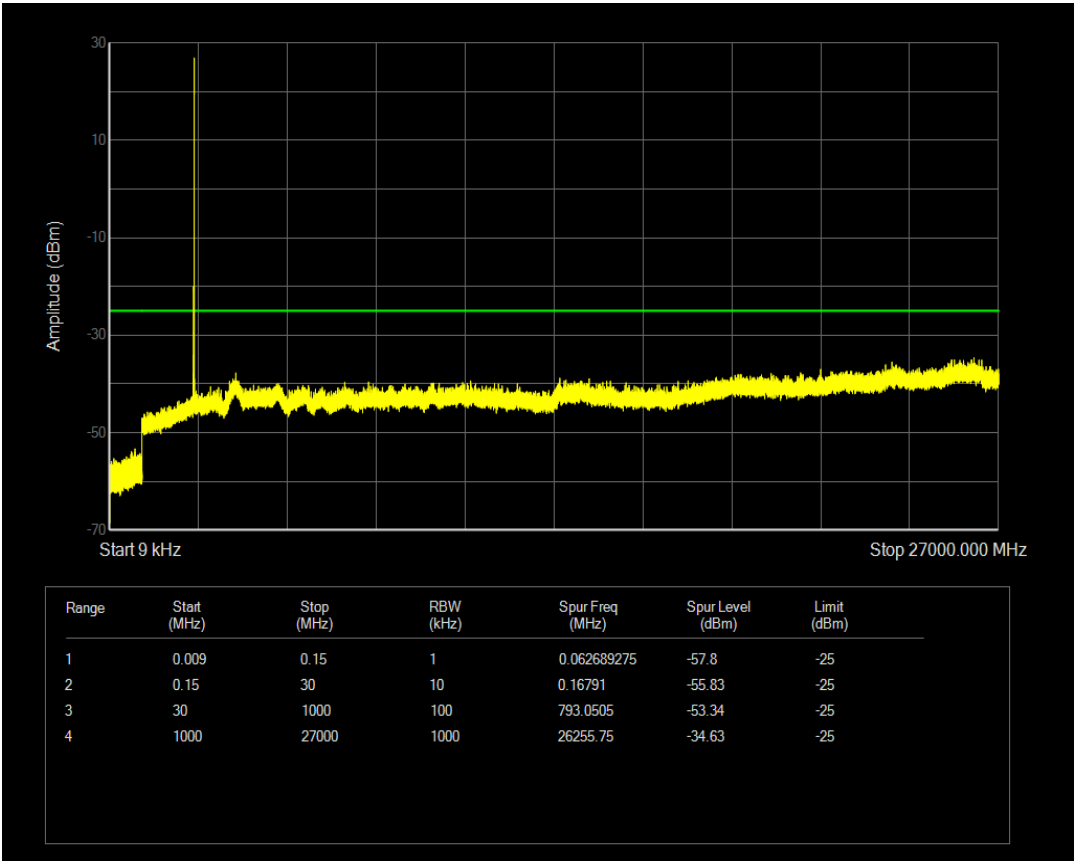
n38 SCS=30kHz CP_QPSK BW=10MHz Channel=515000 RB=1@23



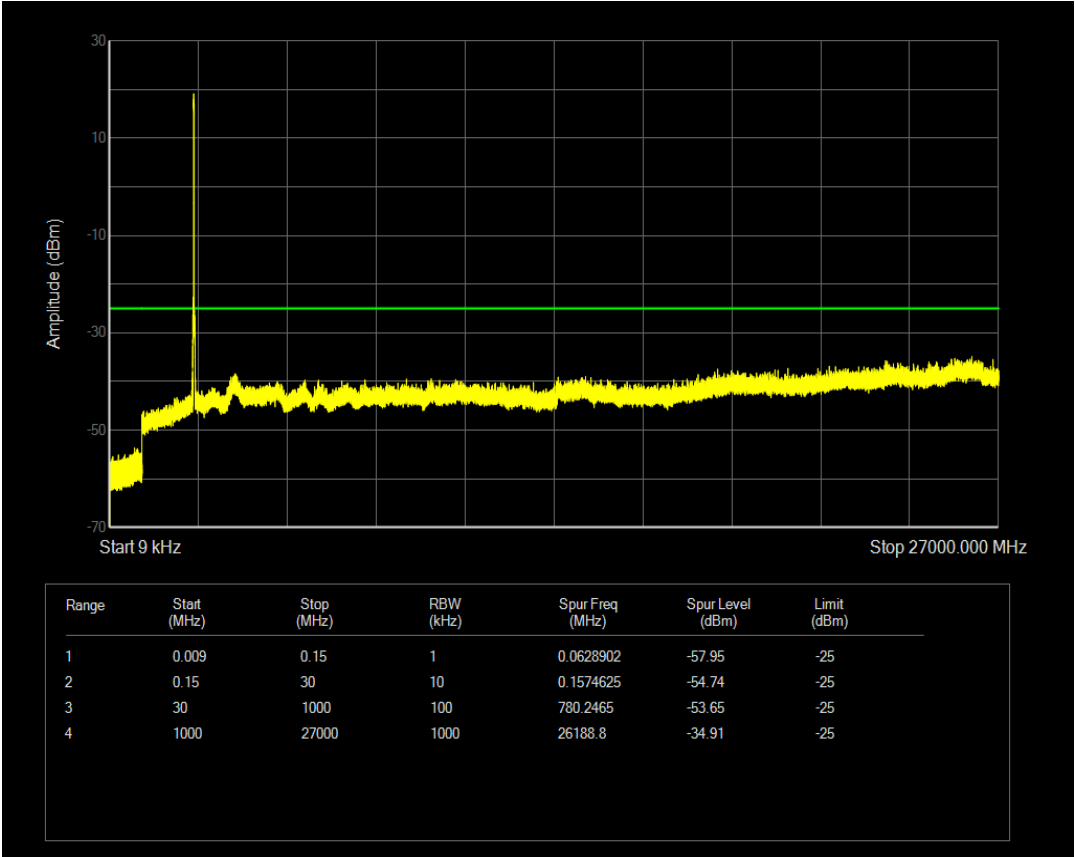
n38 SCS=30kHz CP_QPSK BW=20MHz Channel=516000 RB=1@0



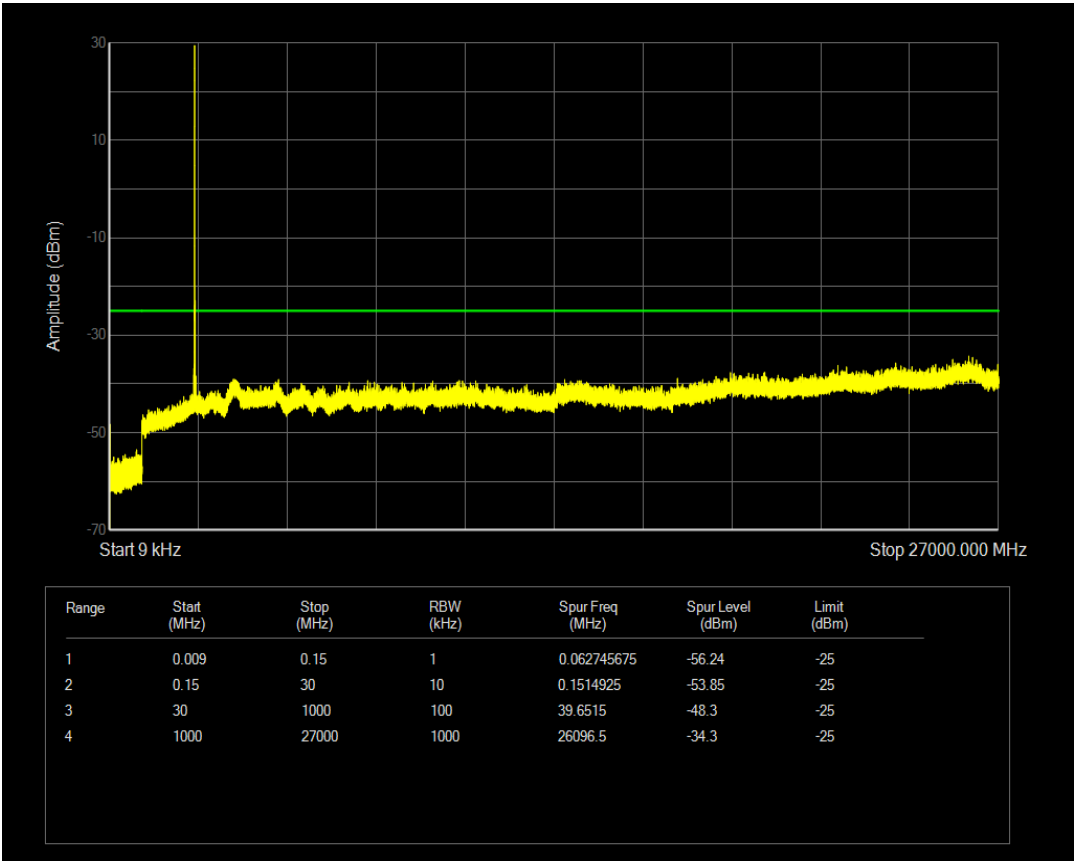
n38 SCS=30kHz CP_QPSK BW=20MHz Channel=516000 RB=1@50



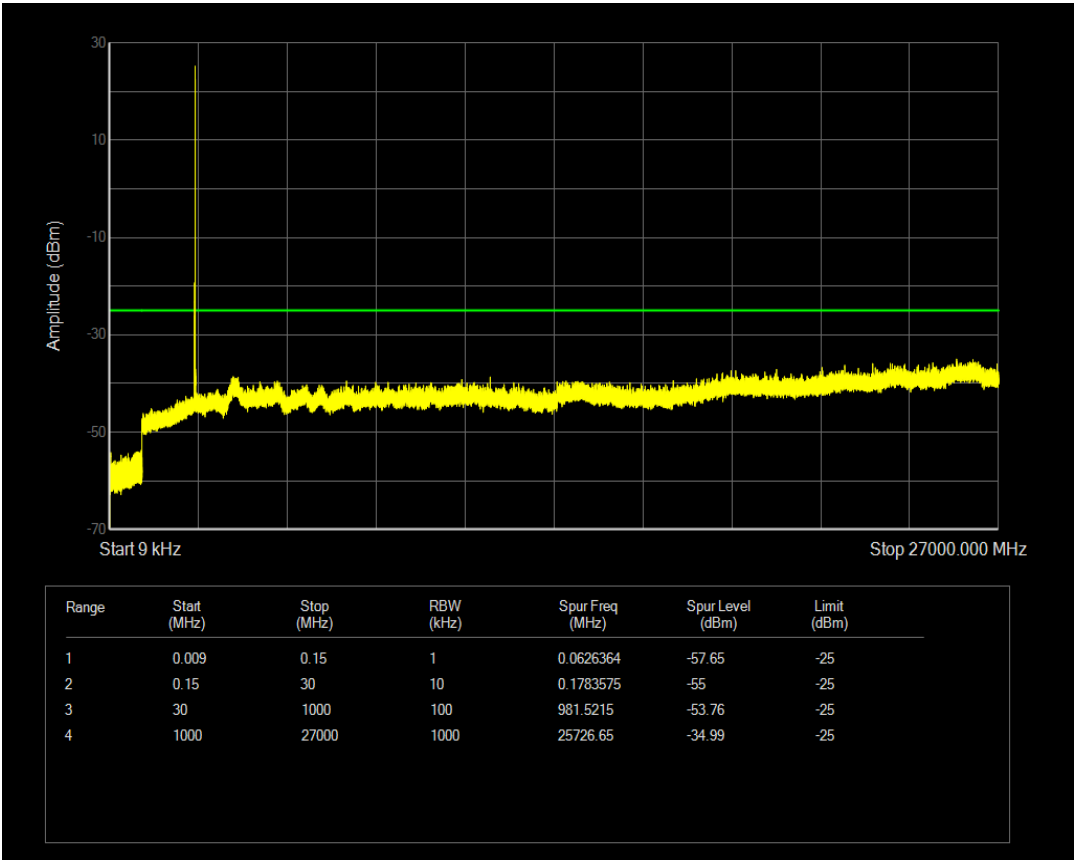
n38 SCS=30kHz CP_QPSK BW=20MHz Channel=516000 RB=51@0



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



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



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

