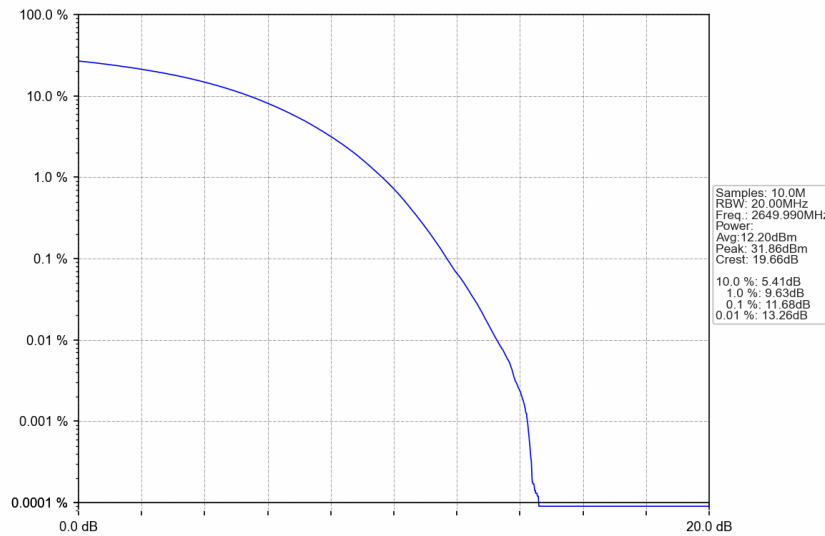
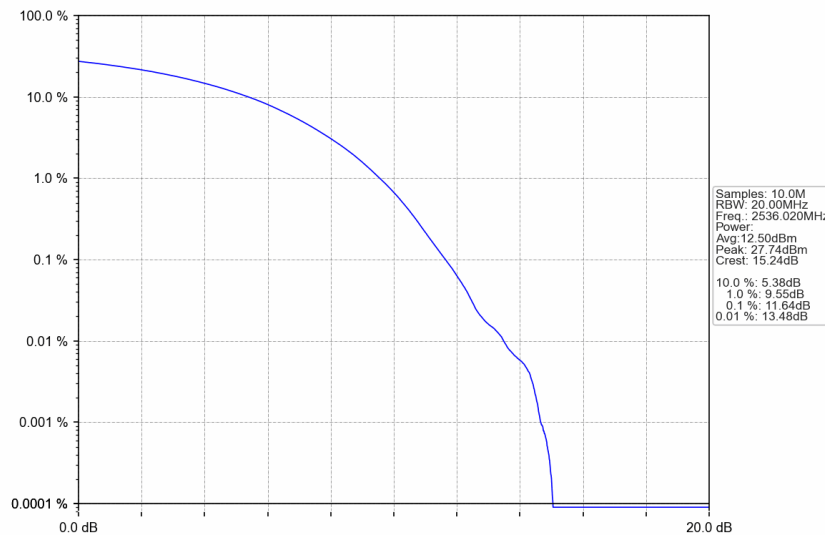


n41_30kHz_SISO_NTNV_80MHz_CP-OFDM 16 QAM_2649.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_80MHz_CP-OFDM 64 QAM_2536.02MHz_Outer_Full

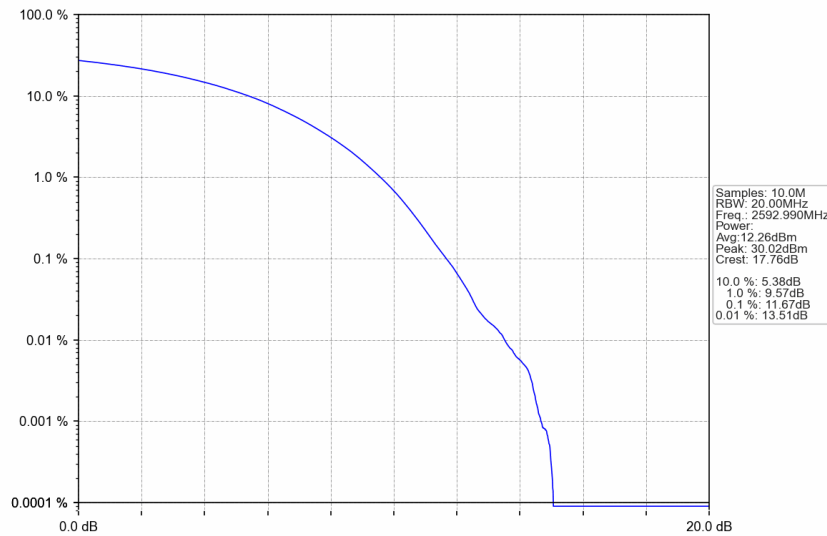


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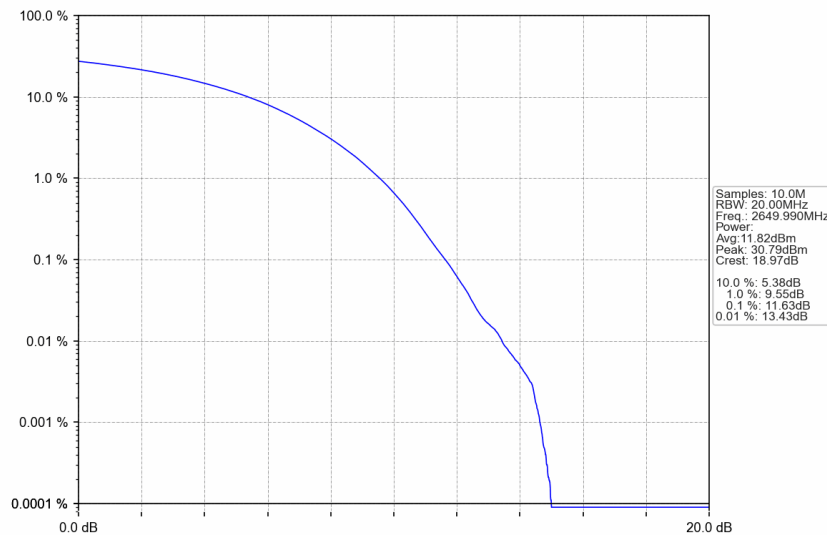
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n41_30kHz_SISO_NTNV_80MHz_CP-OFDM 64 QAM_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_80MHz_CP-OFDM 64 QAM_2649.99MHz_Outer_Full



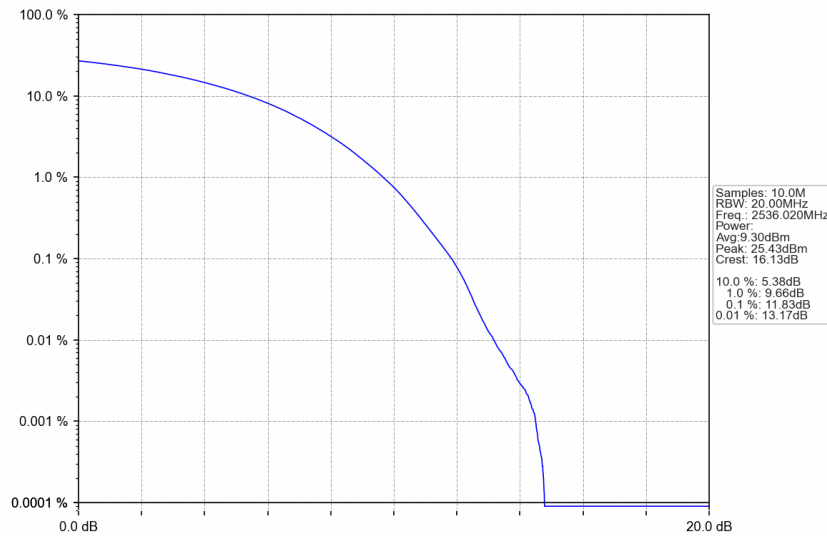
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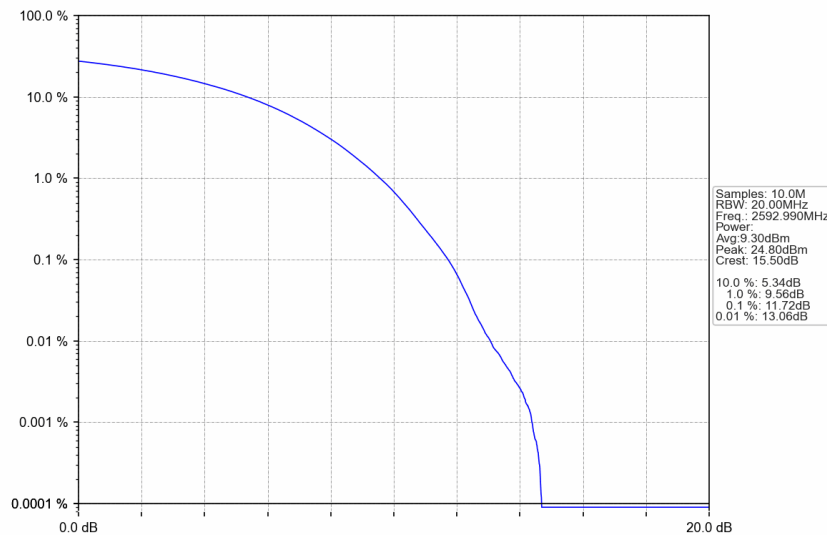
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n41_30kHz_SISO_NTNV_80MHz_CP-OFDM 256 QAM_2592.99MHz_Outer_Full



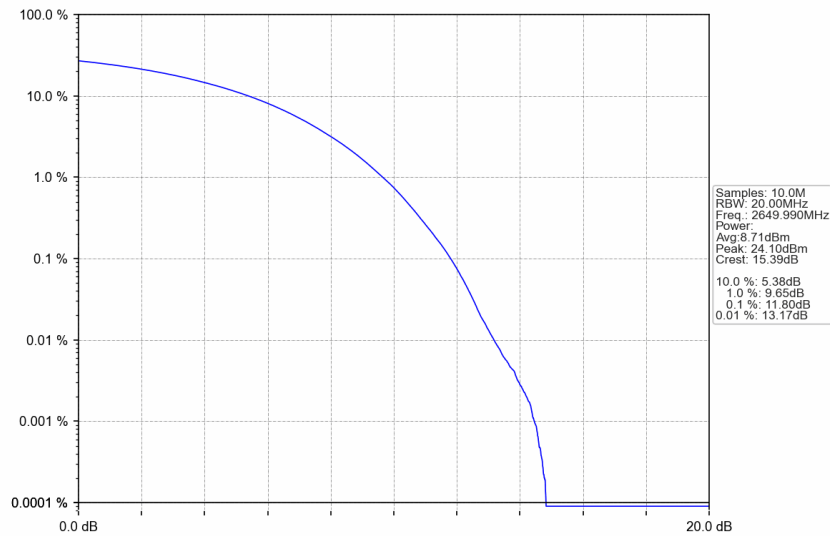
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n41_30kHz_SISO_NTNV_80MHz_CP-OFDM 256 QAM_2649.99MHz_Outer_Full



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5.18 30k_SISO_90MHz_NTNV

5.18.1 Test Result

5G NR n41 SCS=30kHz SISO 90MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2541	Outer_Full	10.91	/	/	<=13	Pass
	2592.99	Outer_Full	12.34	/	/	<=13	Pass
	2644.98	Outer_Full	12.37	/	/	<=13	Pass
DFT-s-OFDM QPSK	2541	Outer_Full	10.18	/	/	<=13	Pass
	2592.99	Outer_Full	11.09	/	/	<=13	Pass
	2644.98	Outer_Full	10.30	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2541	Outer_Full	10.97	/	/	<=13	Pass
	2592.99	Outer_Full	10.99	/	/	<=13	Pass
	2644.98	Outer_Full	11.00	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2541	Outer_Full	11.29	/	/	<=13	Pass
	2592.99	Outer_Full	10.78	/	/	<=13	Pass
	2644.98	Outer_Full	11.17	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2541	Outer_Full	11.16	/	/	<=13	Pass
	2592.99	Outer_Full	11.23	/	/	<=13	Pass
	2644.98	Outer_Full	11.33	/	/	<=13	Pass
CP-OFDM QPSK	2541	Outer_Full	11.72	/	/	<=13	Pass
	2592.99	Outer_Full	11.75	/	/	<=13	Pass
	2644.98	Outer_Full	11.49	/	/	<=13	Pass
CP-OFDM 16 QAM	2541	Outer_Full	11.54	/	/	<=13	Pass
	2592.99	Outer_Full	11.64	/	/	<=13	Pass
	2644.98	Outer_Full	11.60	/	/	<=13	Pass
CP-OFDM 64 QAM	2541	Outer_Full	11.68	/	/	<=13	Pass
	2592.99	Outer_Full	11.79	/	/	<=13	Pass
	2644.98	Outer_Full	11.76	/	/	<=13	Pass
CP-OFDM 256 QAM	2541	Outer_Full	11.73	/	/	<=13	Pass
	2592.99	Outer_Full	11.97	/	/	<=13	Pass
	2644.98	Outer_Full	11.81	/	/	<=13	Pass

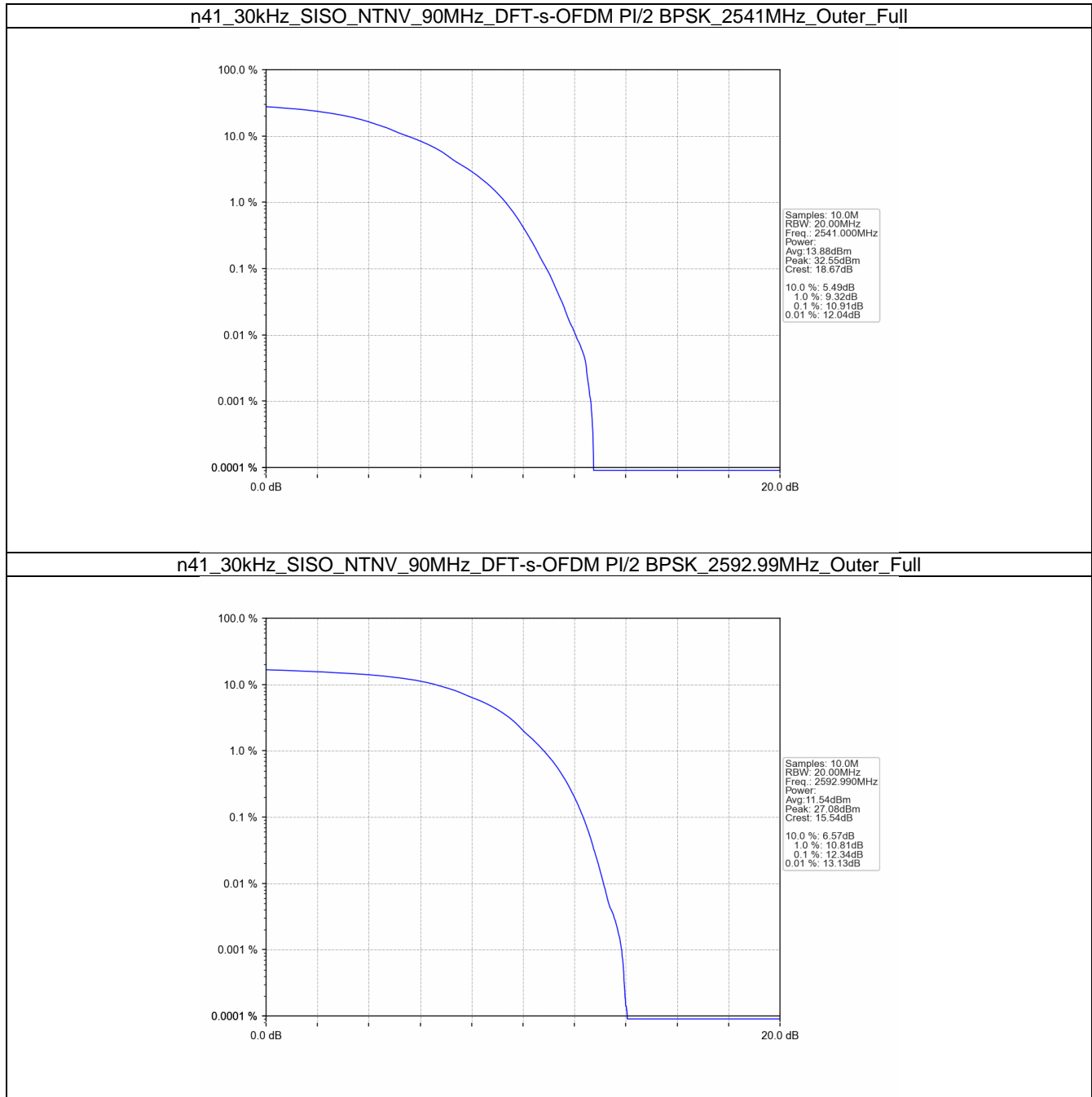


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5.18.2 Test Graph

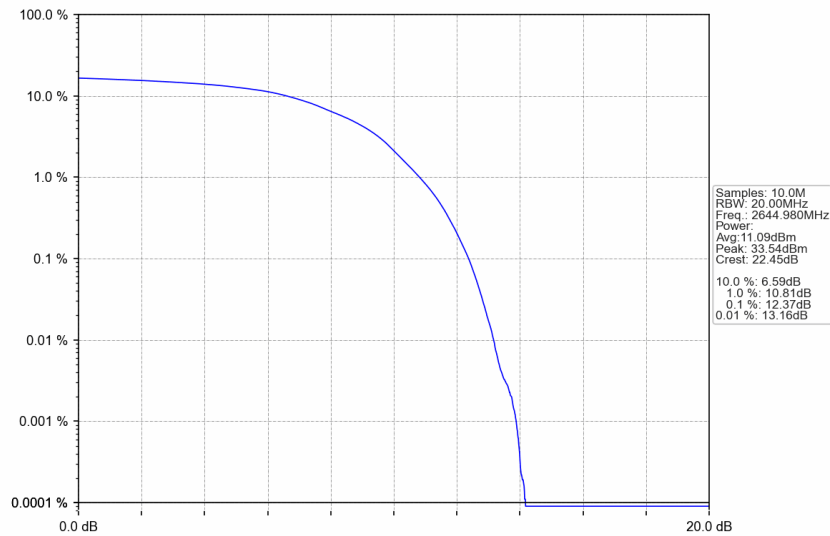


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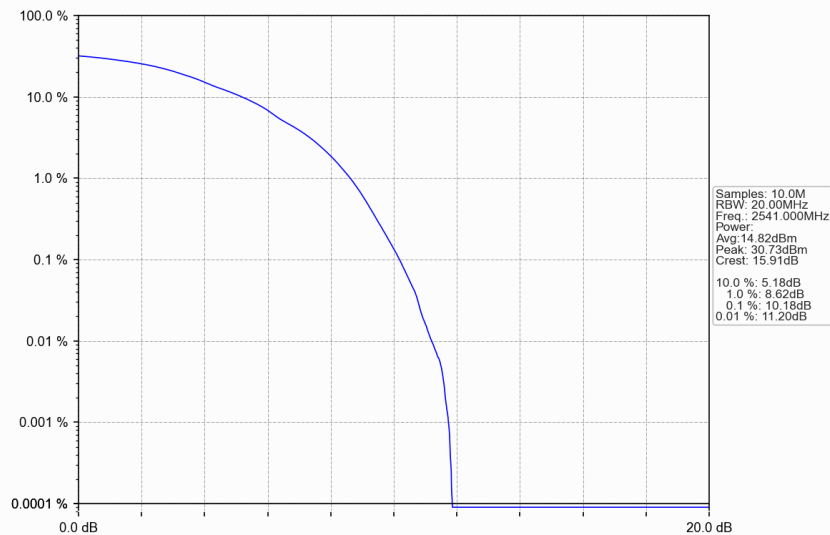
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n41_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM PI/2 BPSK_2644.98MHz_Outer_Full



n41_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM QPSK_2541MHz_Outer_Full

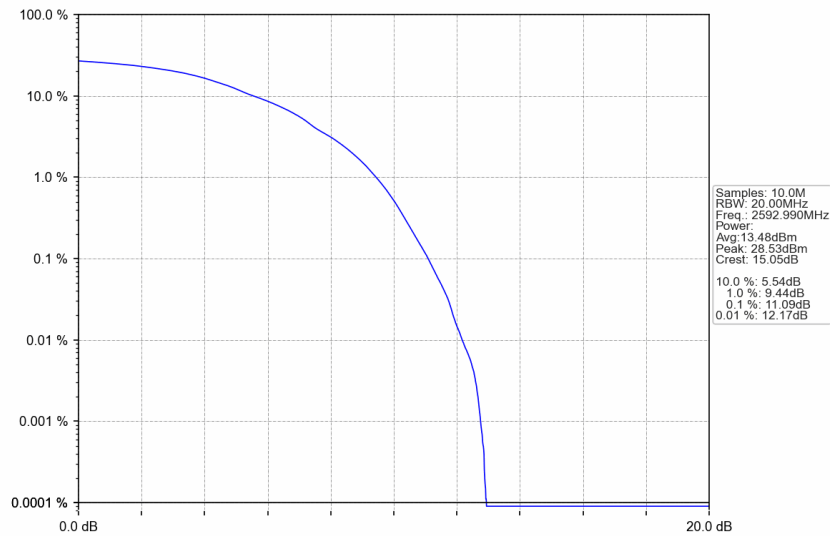


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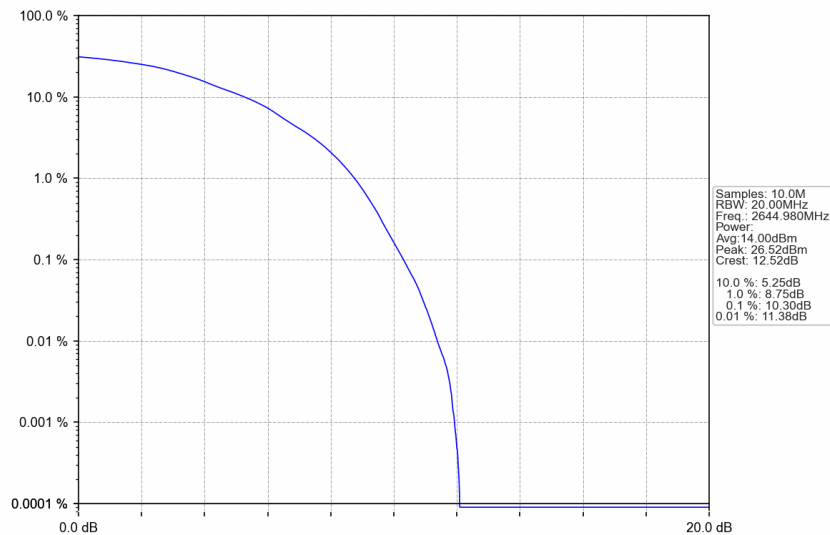
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n41_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM QPSK_2644.98MHz_Outer_Full



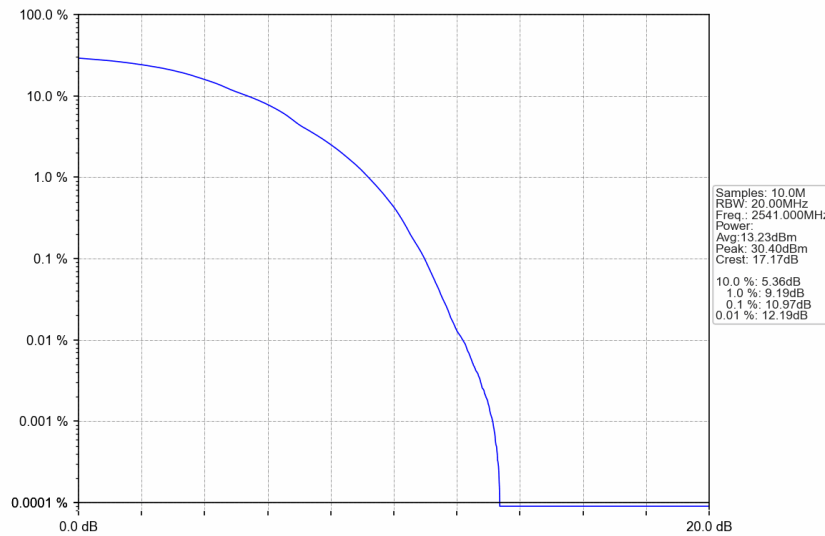
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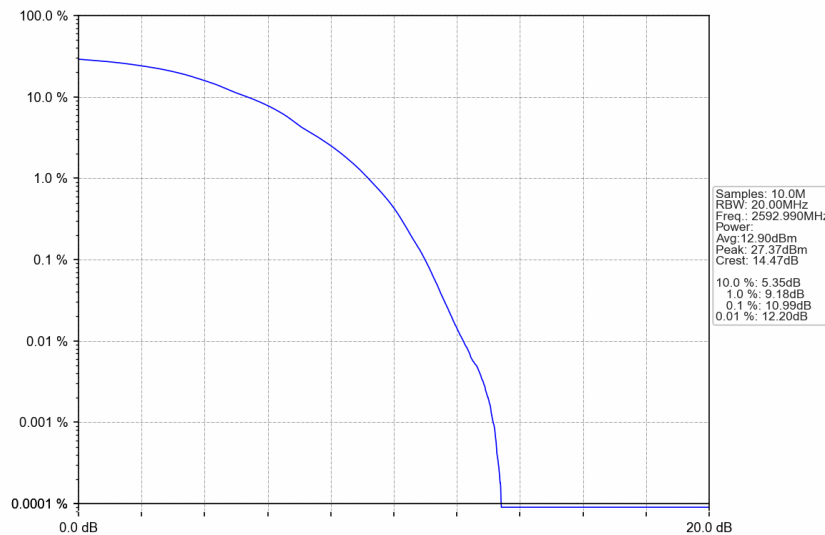
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n41_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM 16 QAM_2541MHz_Outer_Full



n41_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM 16 QAM_2592.99MHz_Outer_Full



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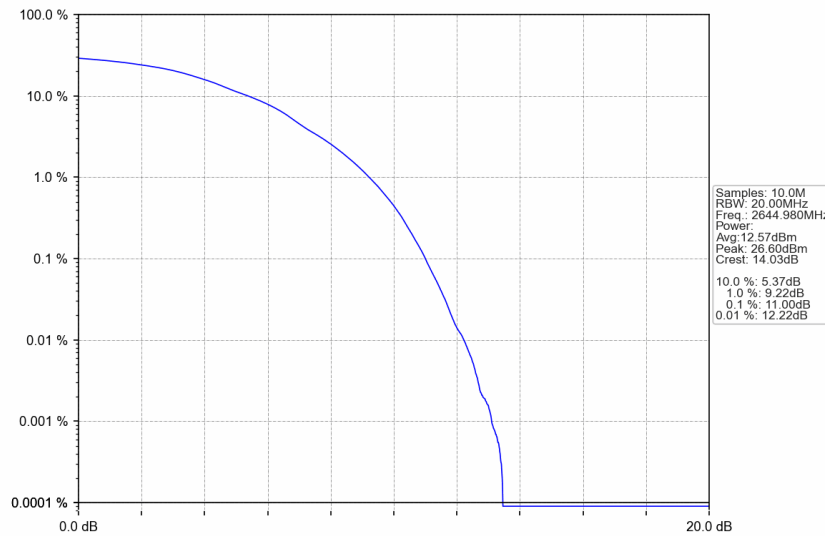


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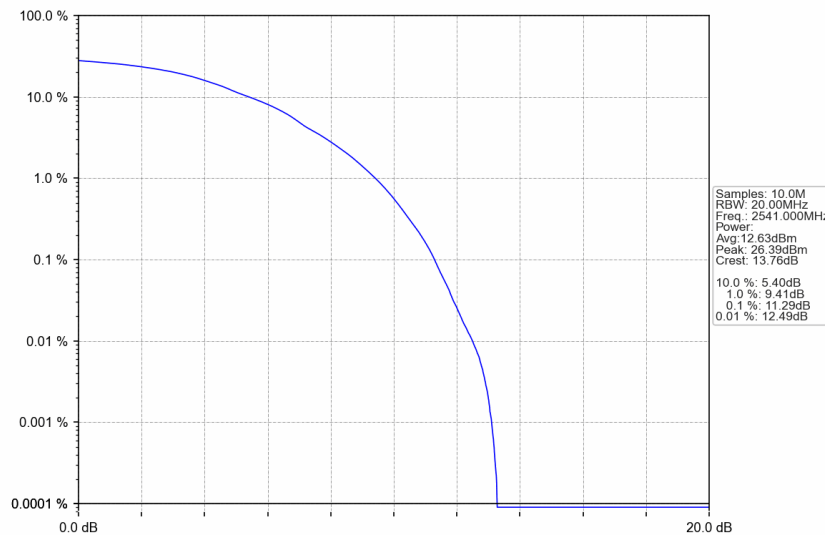
Rev.: 01

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n41_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM 16 QAM_2644.98MHz_Outer_Full



n41_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM 64 QAM_2541MHz_Outer_Full



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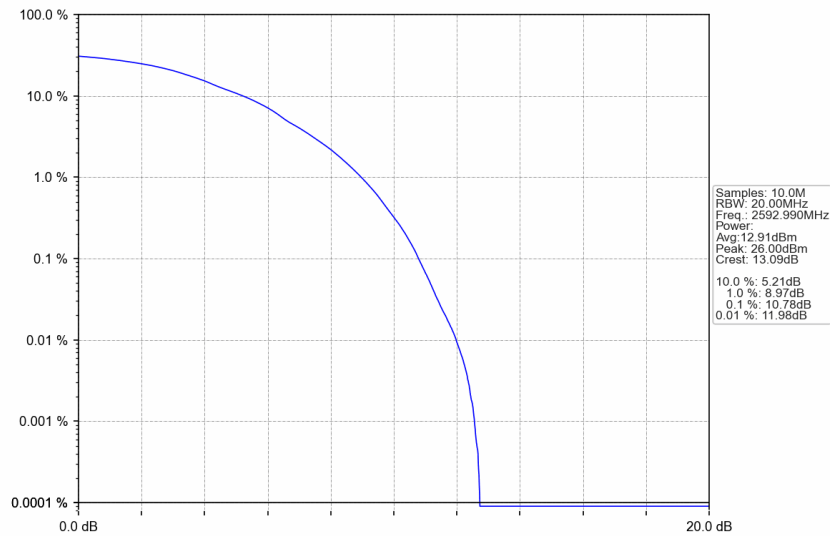
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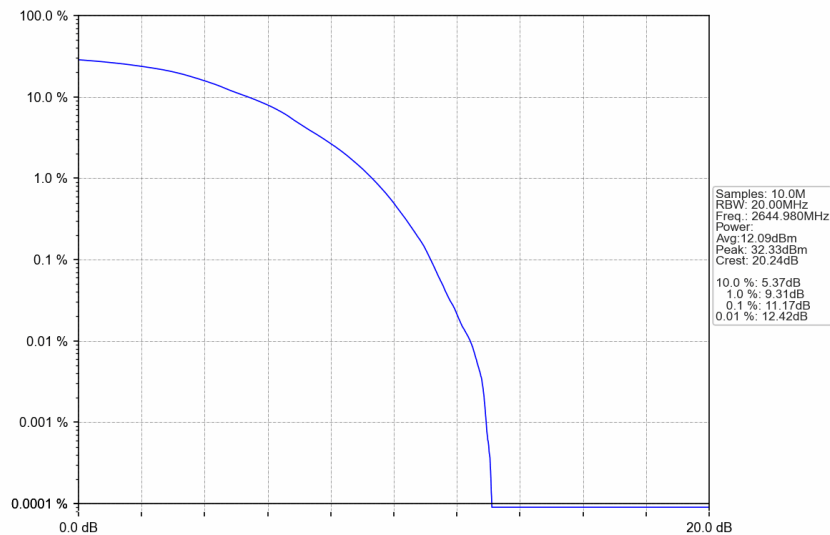
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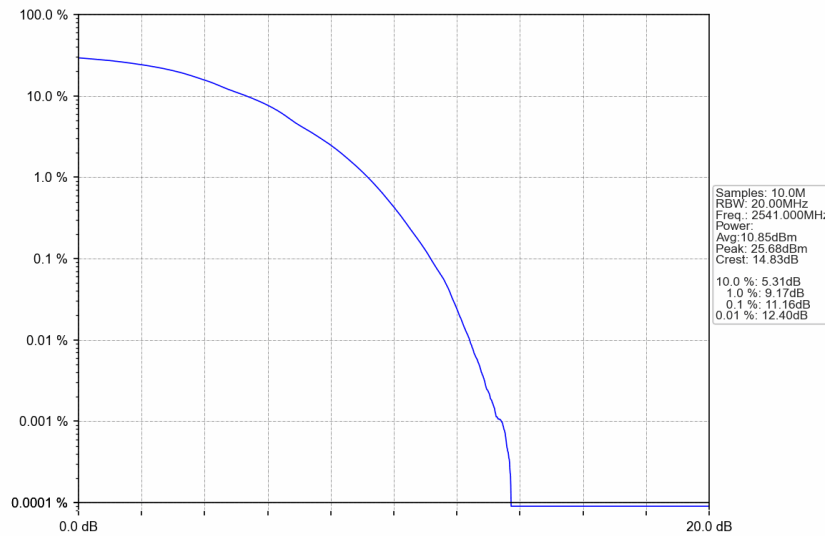


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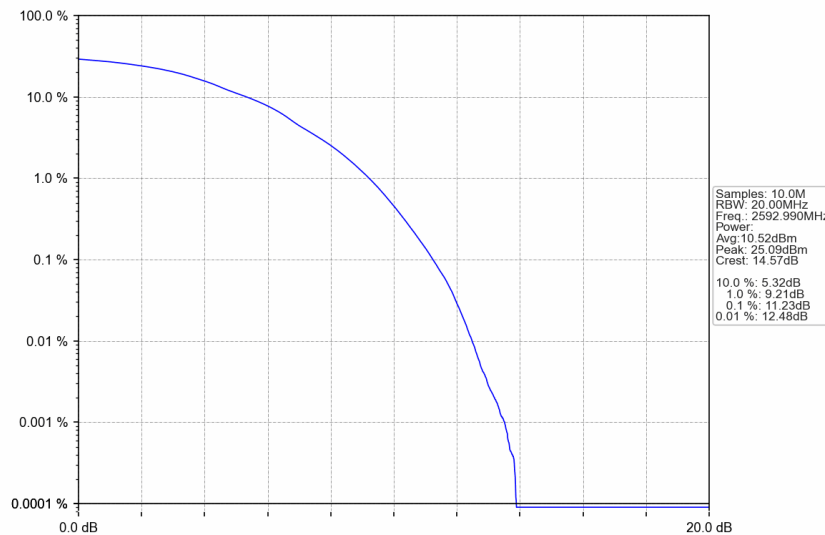
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n41_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM 256 QAM_2541MHz_Outer_Full



n41_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM 256 QAM_2592.99MHz_Outer_Full

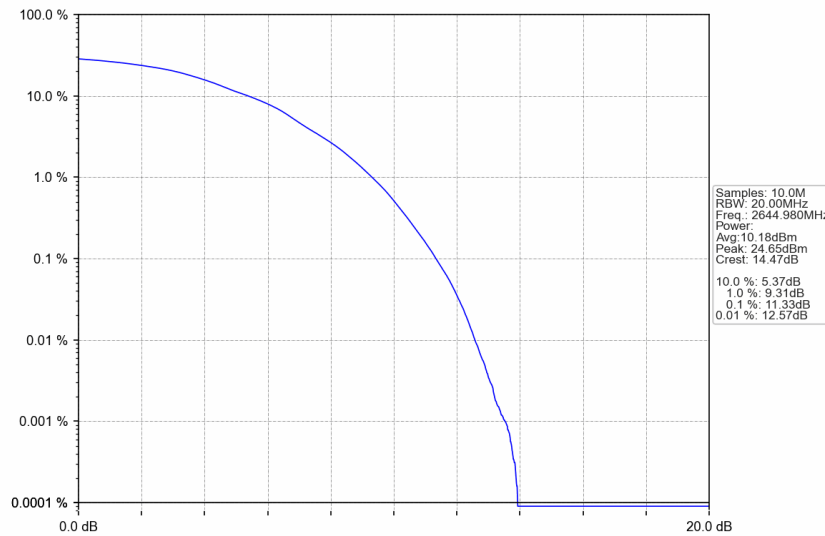


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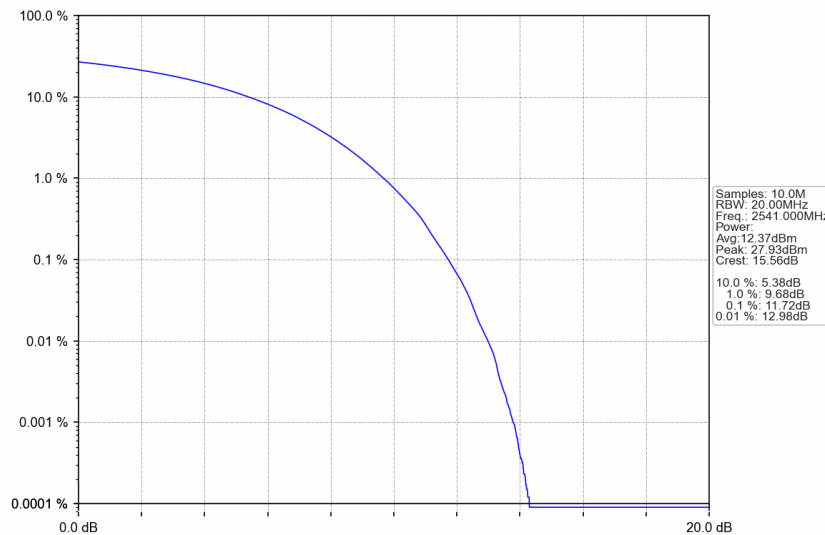
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n41_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM 256 QAM_2644.98MHz_Outer_Full



n41_30kHz_SISO_NTNV_90MHz_CP-OFDM QPSK_2541MHz_Outer_Full

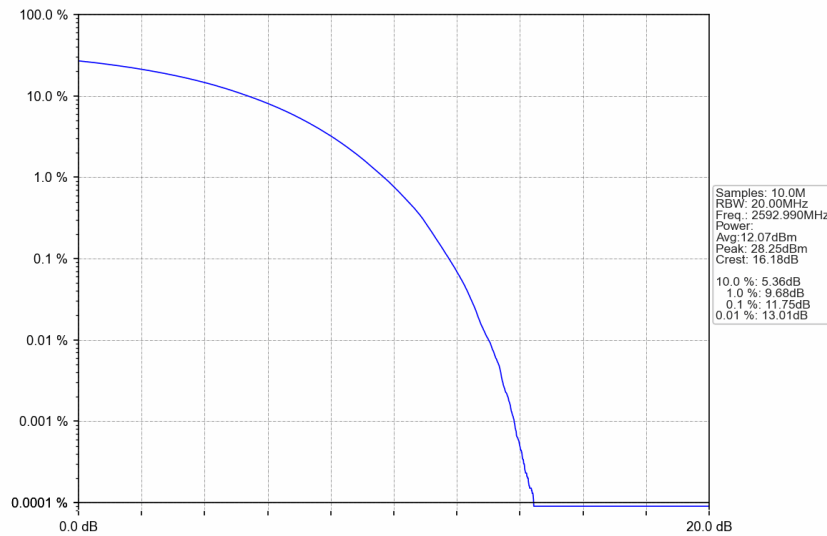


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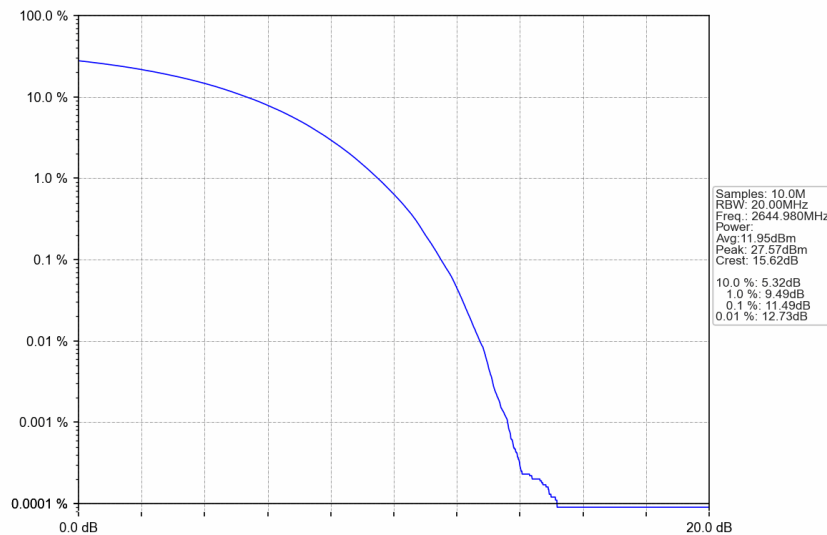
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n41_30kHz_SISO_NTNV_90MHz_CP-OFDM QPSK_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_90MHz_CP-OFDM QPSK_2644.98MHz_Outer_Full



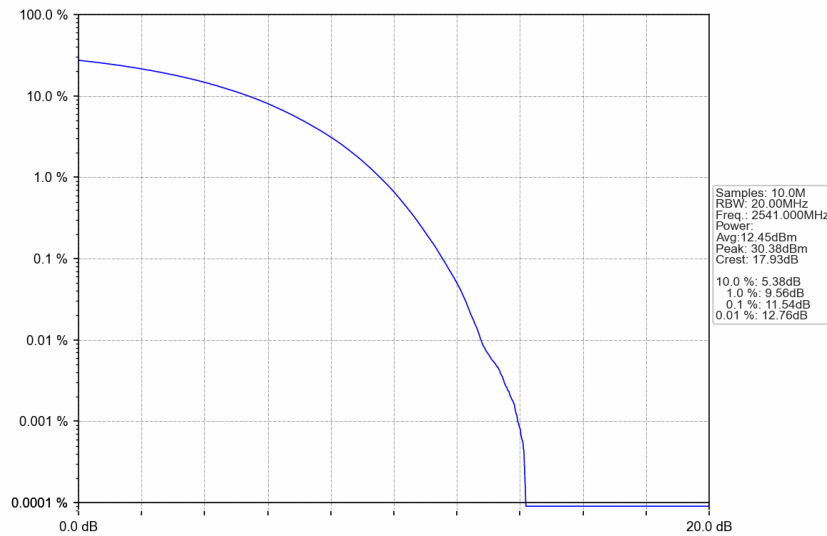
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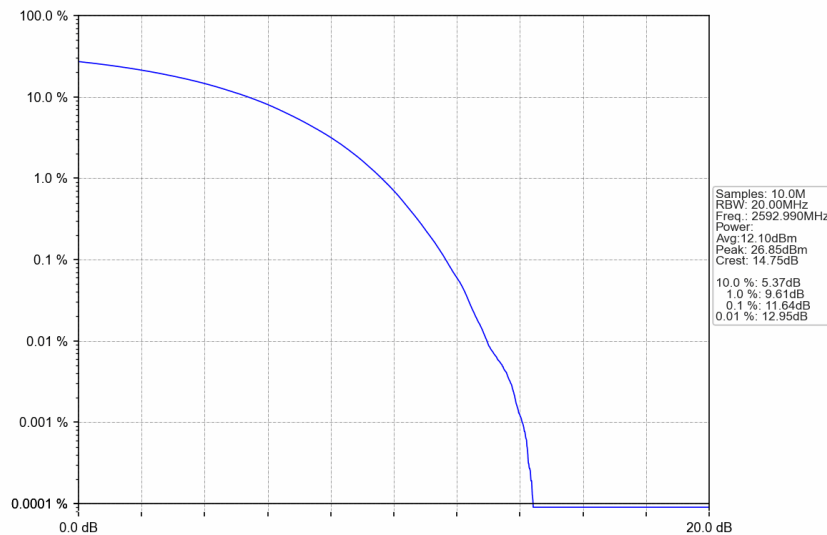
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n41_30kHz_SISO_NTNV_90MHz_CP-OFDM 16 QAM_2541MHz_Outer_Full



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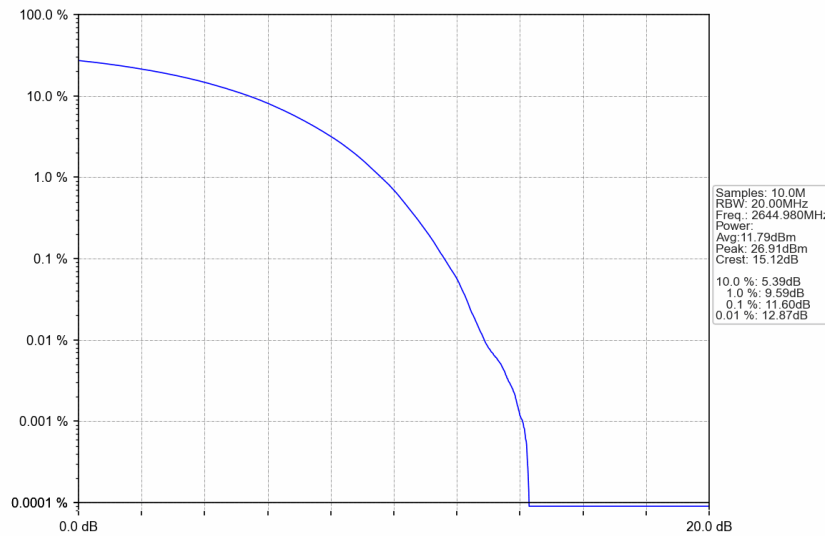
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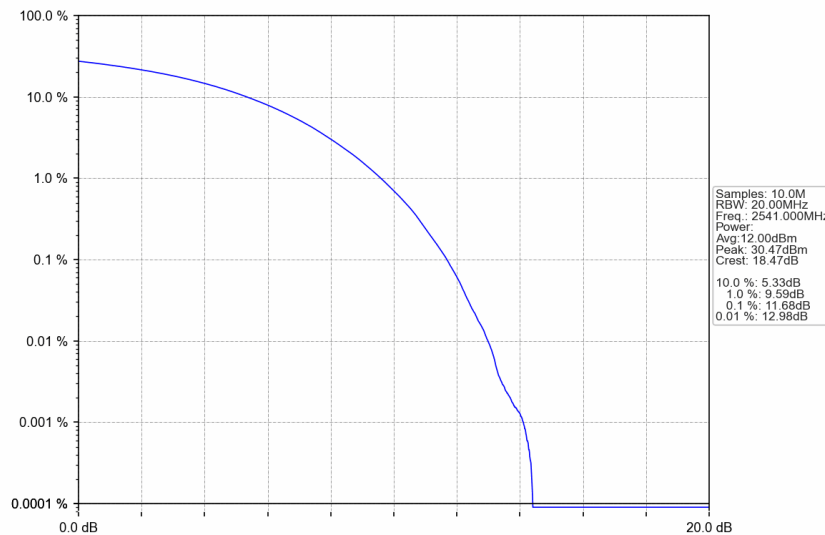
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n41_30kHz_SISO_NTNV_90MHz_CP-OFDM 16 QAM_2644.98MHz_Outer_Full



n41_30kHz_SISO_NTNV_90MHz_CP-OFDM 64 QAM_2541MHz_Outer_Full



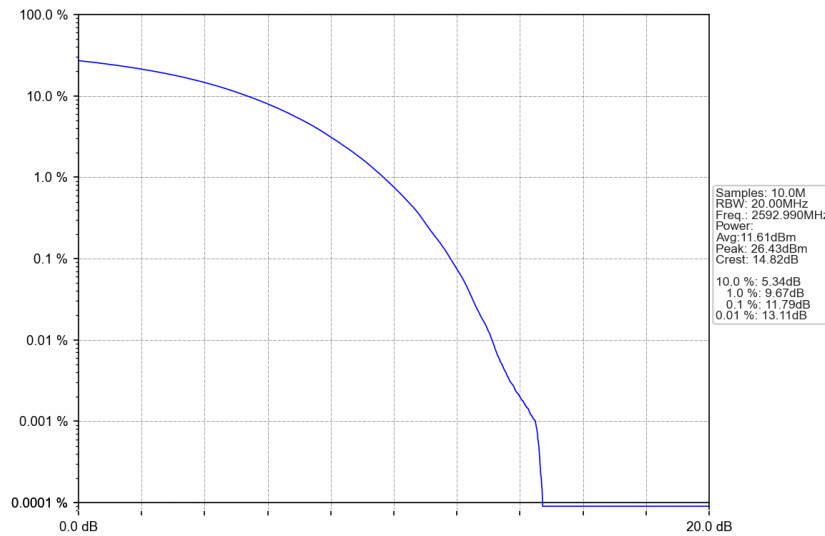
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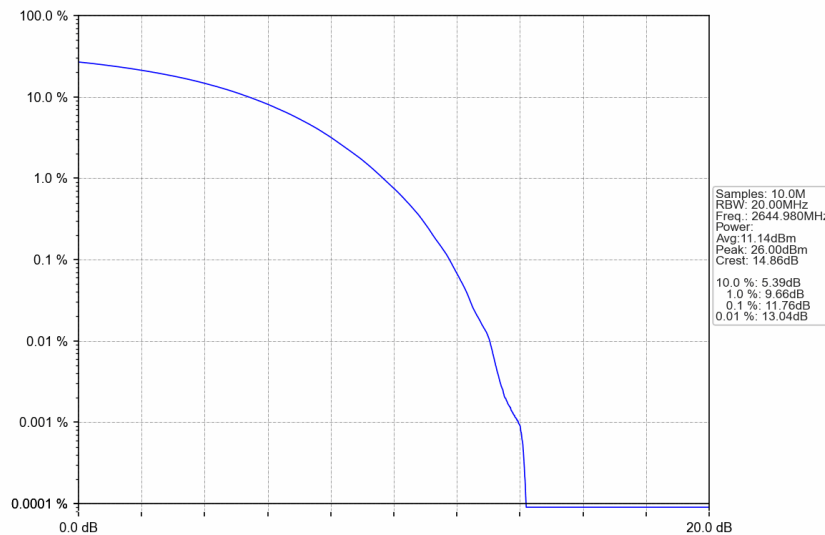
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n41_30kHz_SISO_NTNV_90MHz_CP-OFDM 64 QAM_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_90MHz_CP-OFDM 64 QAM_2644.98MHz_Outer_Full

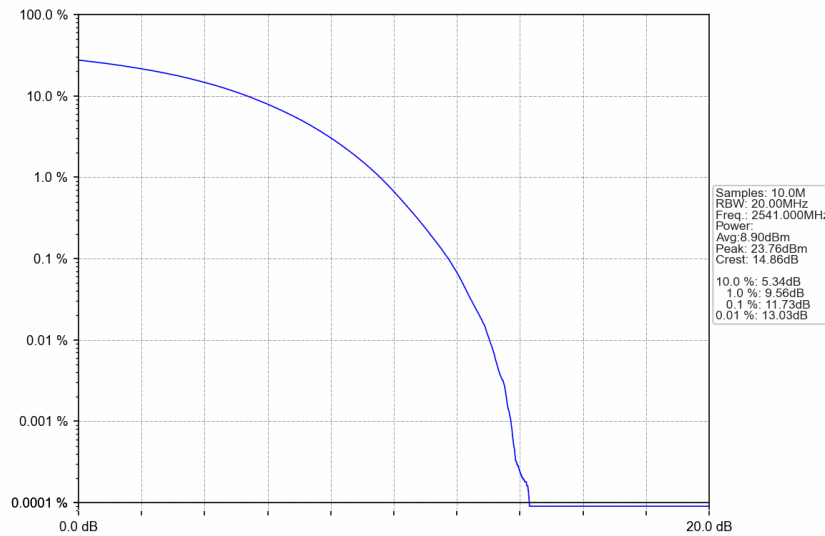


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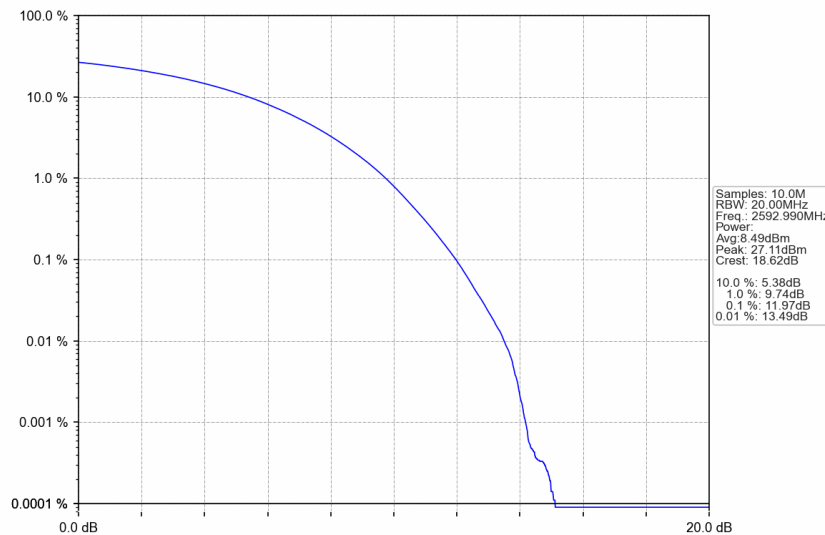
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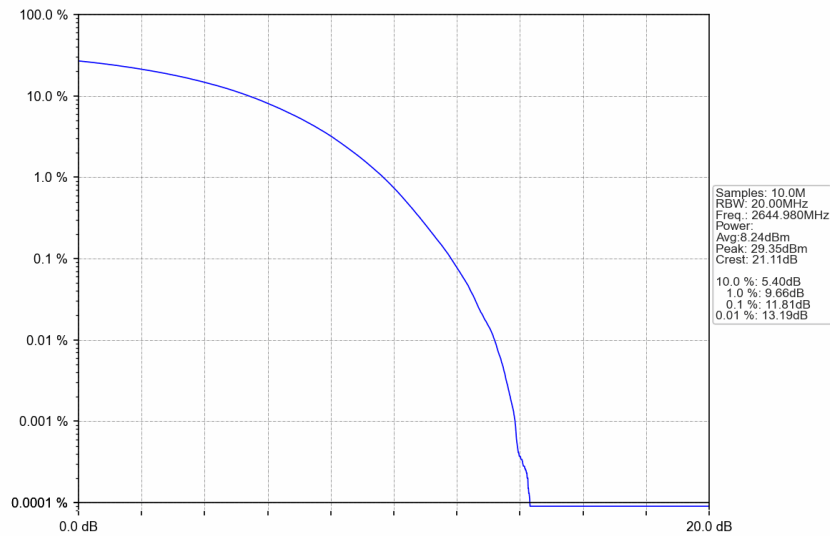
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5.19 30k_SISO_100MHz_NTNV

5.19.1 Test Result

5G NR n41 SCS=30kHz SISO 100MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2546.01	Outer_Full	10.75	/	/	<=13	Pass
	2592.99	Outer_Full	12.49	/	/	<=13	Pass
	2640	Outer_Full	12.27	/	/	<=13	Pass
DFT-s-OFDM QPSK	2546.01	Outer_Full	10.28	/	/	<=13	Pass
	2592.99	Outer_Full	10.37	/	/	<=13	Pass
	2640	Outer_Full	10.24	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2546.01	Outer_Full	10.87	/	/	<=13	Pass
	2592.99	Outer_Full	11.10	/	/	<=13	Pass
	2640	Outer_Full	10.92	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2546.01	Outer_Full	11.23	/	/	<=13	Pass
	2592.99	Outer_Full	12.95	/	/	<=13	Pass
	2640	Outer_Full	11.20	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2546.01	Outer_Full	11.42	/	/	<=13	Pass
	2592.99	Outer_Full	11.39	/	/	<=13	Pass
	2640	Outer_Full	11.32	/	/	<=13	Pass
CP-OFDM QPSK	2546.01	Outer_Full	11.55	/	/	<=13	Pass
	2592.99	Outer_Full	11.69	/	/	<=13	Pass
	2640	Outer_Full	11.72	/	/	<=13	Pass
CP-OFDM 16 QAM	2546.01	Outer_Full	11.93	/	/	<=13	Pass
	2592.99	Outer_Full	11.78	/	/	<=13	Pass
	2640	Outer_Full	11.88	/	/	<=13	Pass
CP-OFDM 64 QAM	2546.01	Outer_Full	11.64	/	/	<=13	Pass
	2592.99	Outer_Full	11.64	/	/	<=13	Pass
	2640	Outer_Full	11.59	/	/	<=13	Pass
CP-OFDM 256 QAM	2546.01	Outer_Full	11.68	/	/	<=13	Pass
	2592.99	Outer_Full	11.63	/	/	<=13	Pass
	2640	Outer_Full	11.69	/	/	<=13	Pass

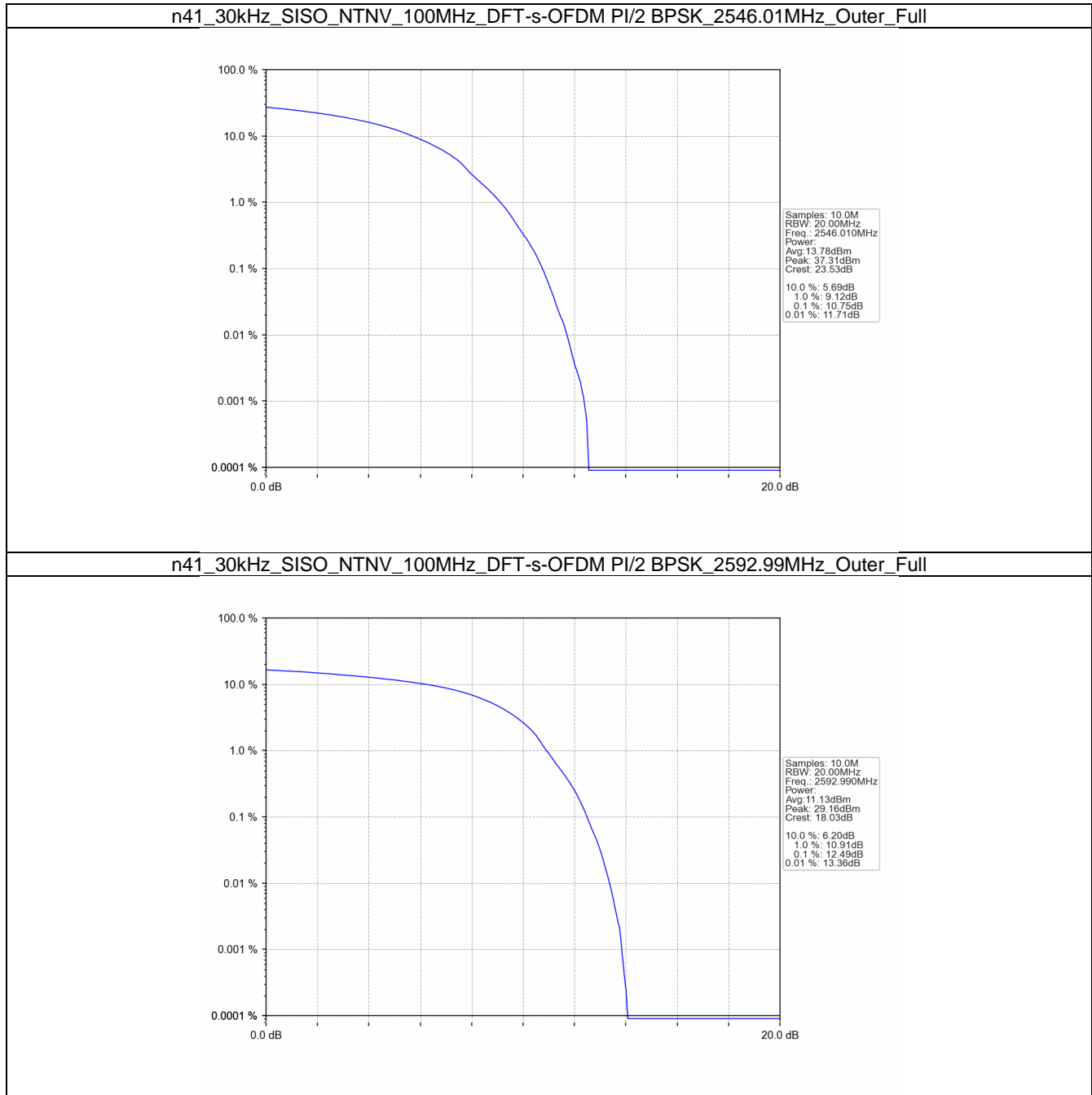


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5.19.2 Test Graph

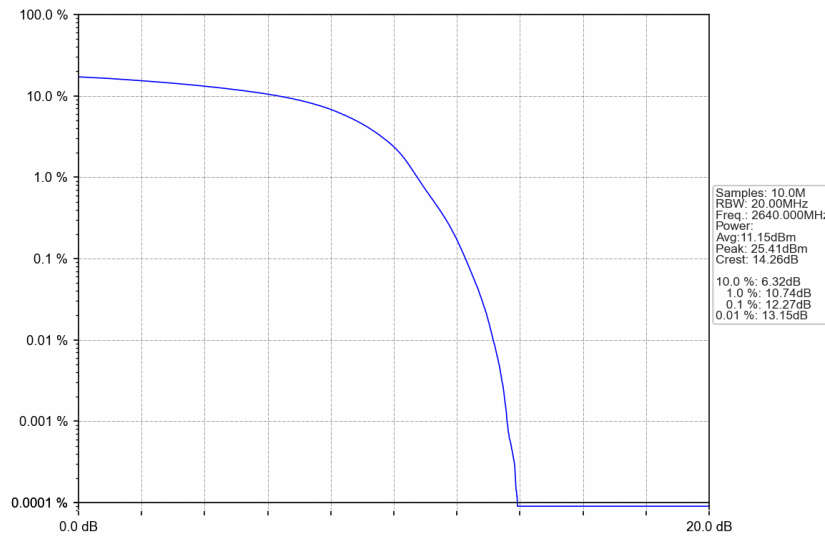


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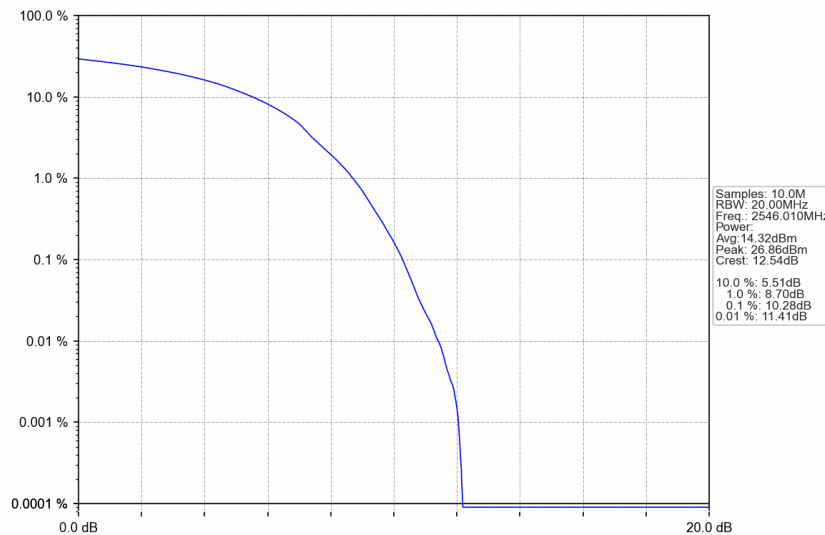
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n41_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM PI/2 BPSK_2640MHz_Outer_Full



n41_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM QPSK_2546.01MHz_Outer_Full

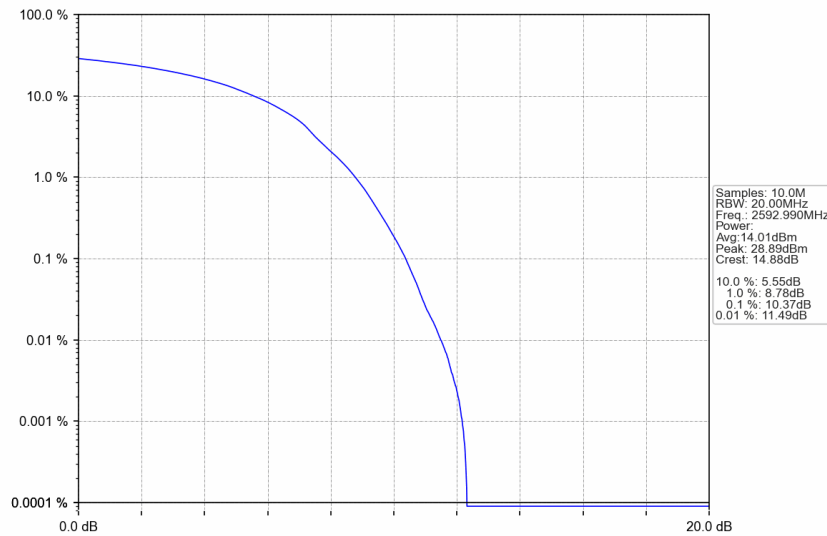


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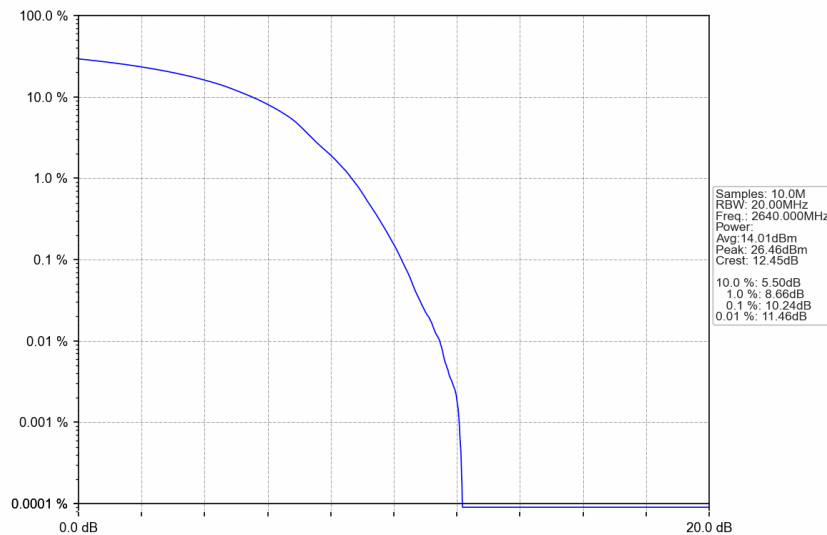
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n41_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM QPSK_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM QPSK_2640MHz_Outer_Full



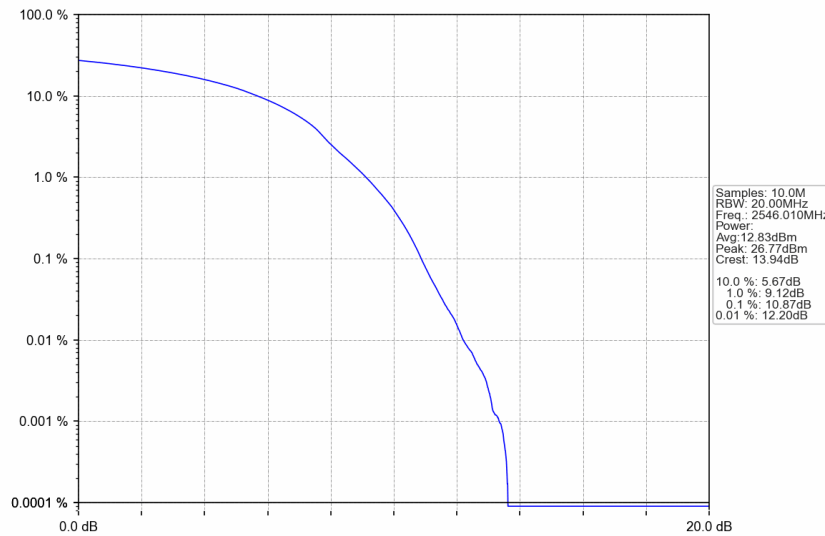
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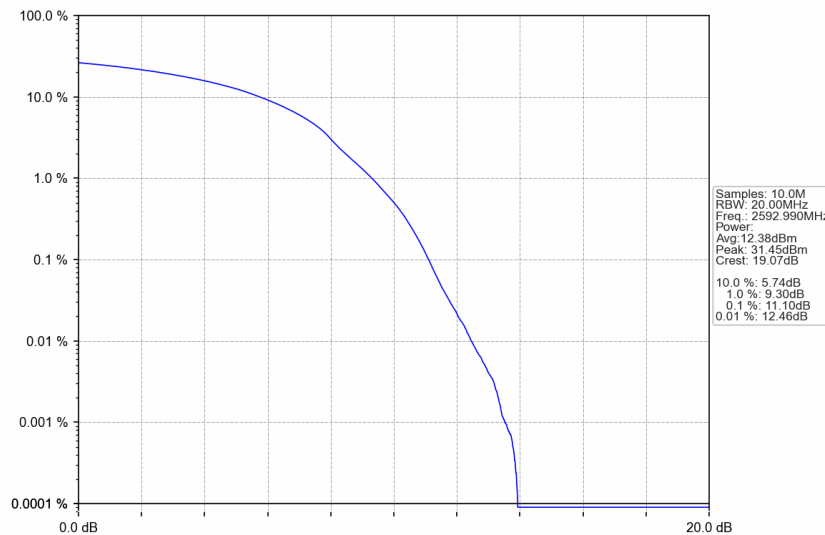
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n41_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 16 QAM_2546.01MHz_Outer_Full



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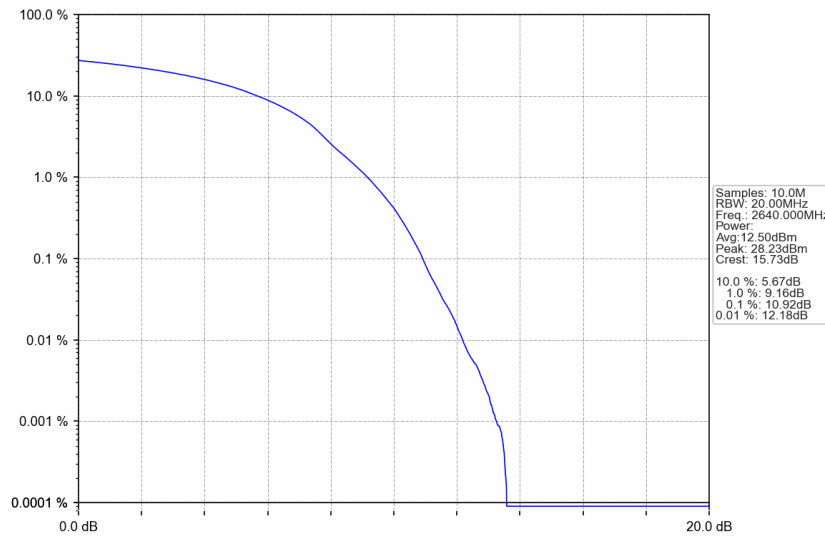


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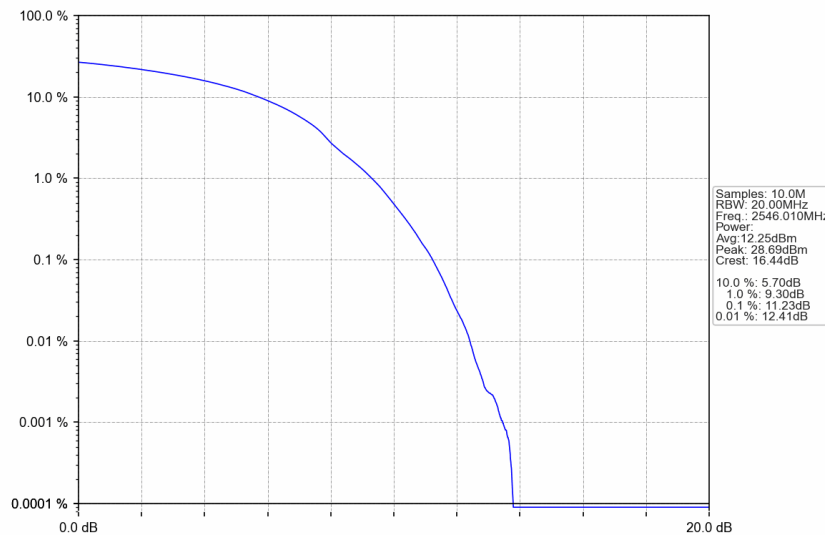
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n41_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 16 QAM_2640MHz_Outer_Full



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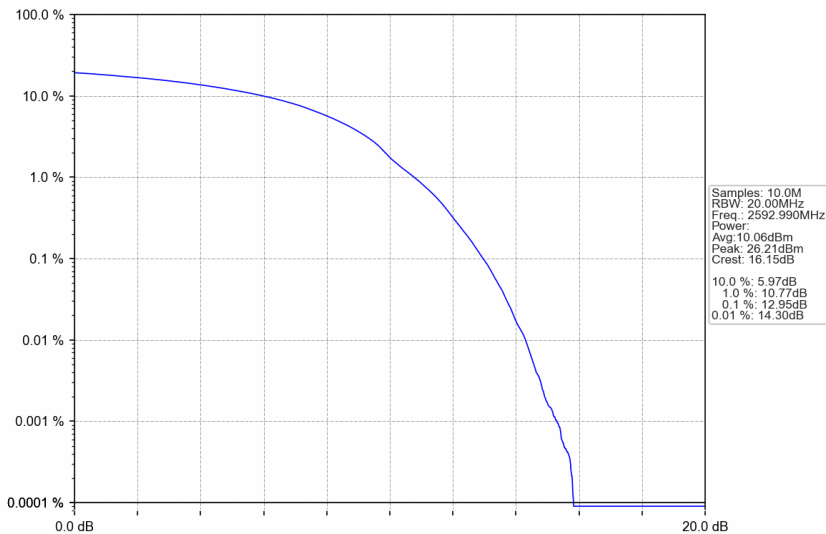


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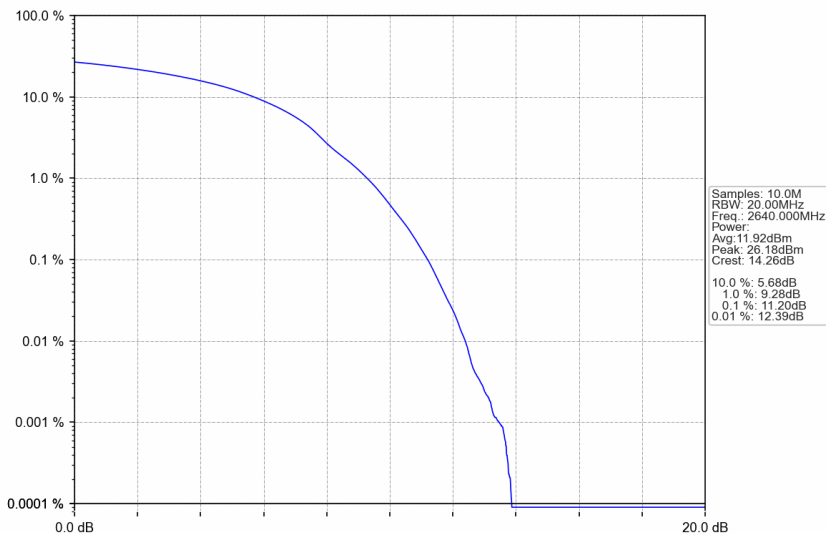
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n41_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 64 QAM_2592.99MHz_Outer_Full



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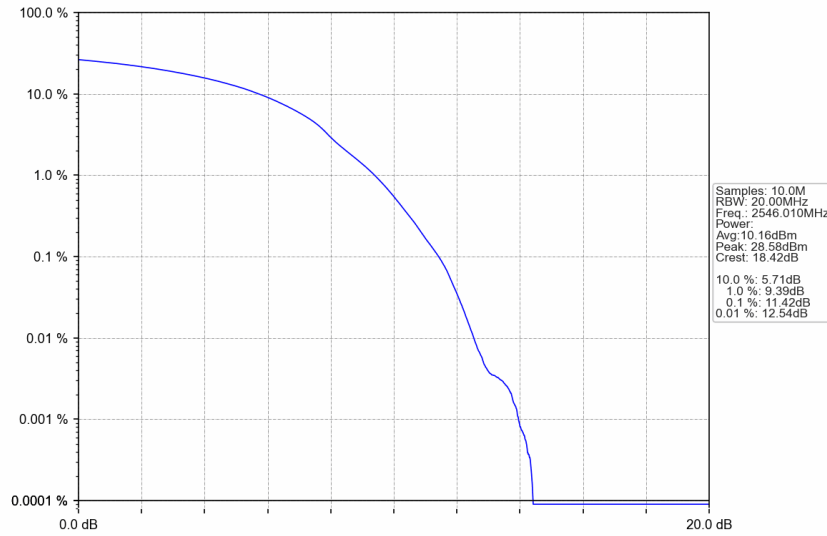


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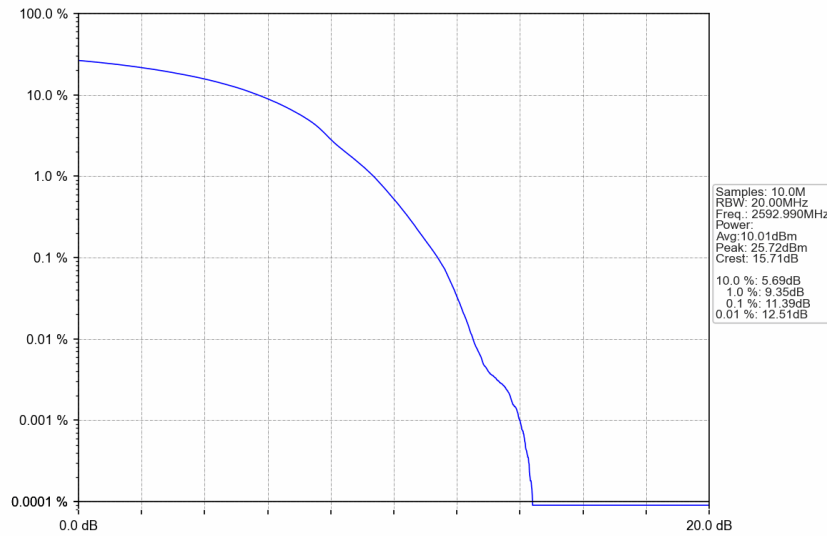
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n41_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 256 QAM_2546.01MHz_Outer_Full



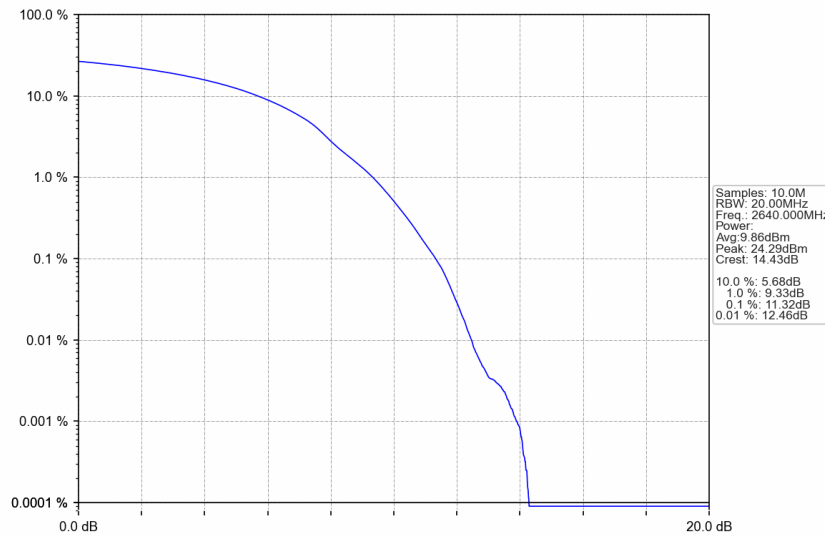
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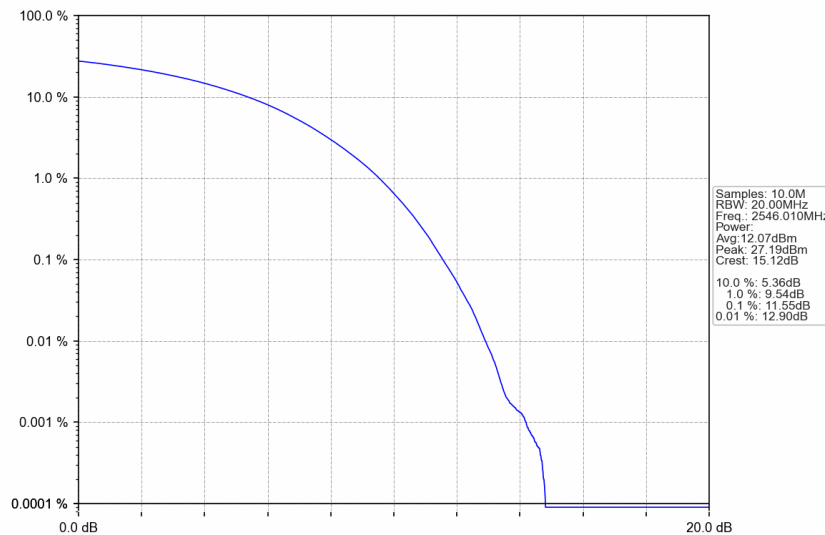
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n41_30kHz_SISO_NTNV_100MHz_CP-OFDM QPSK_2546.01MHz_Outer_Full



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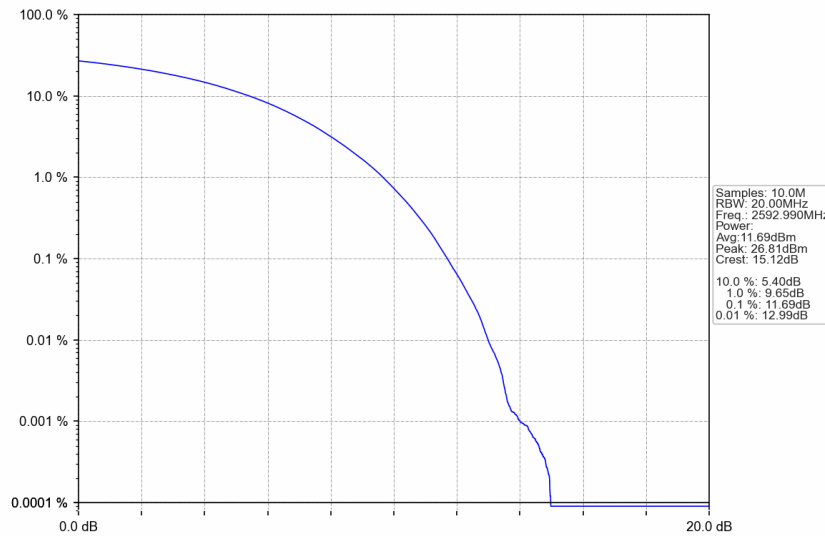
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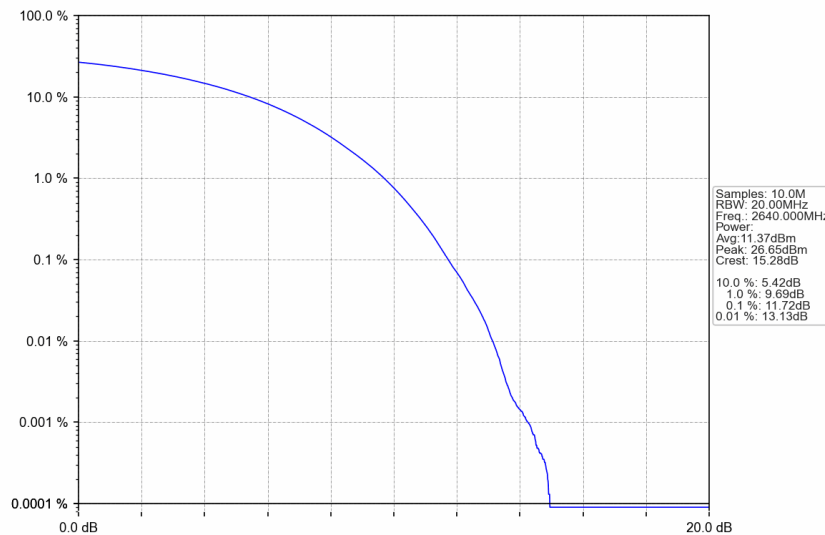
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n41_30kHz_SISO_NTNV_100MHz_CP-OFDM QPSK_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_100MHz_CP-OFDM QPSK_2640MHz_Outer_Full

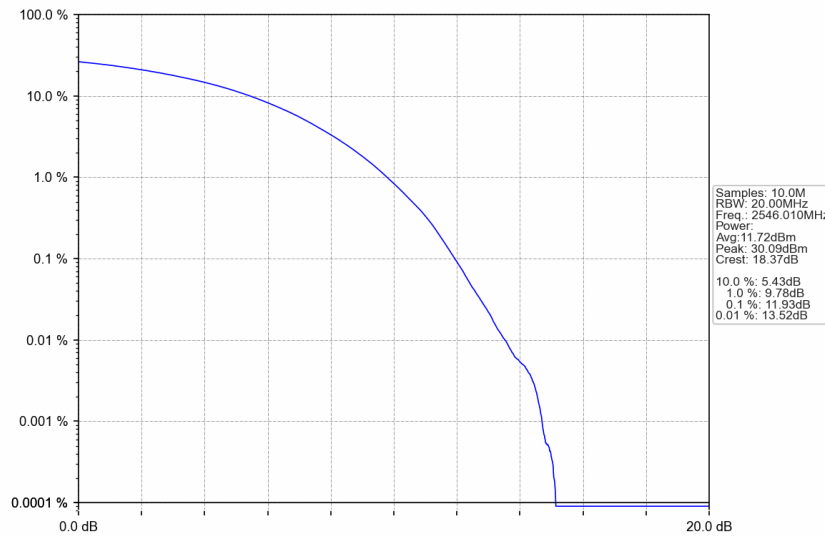


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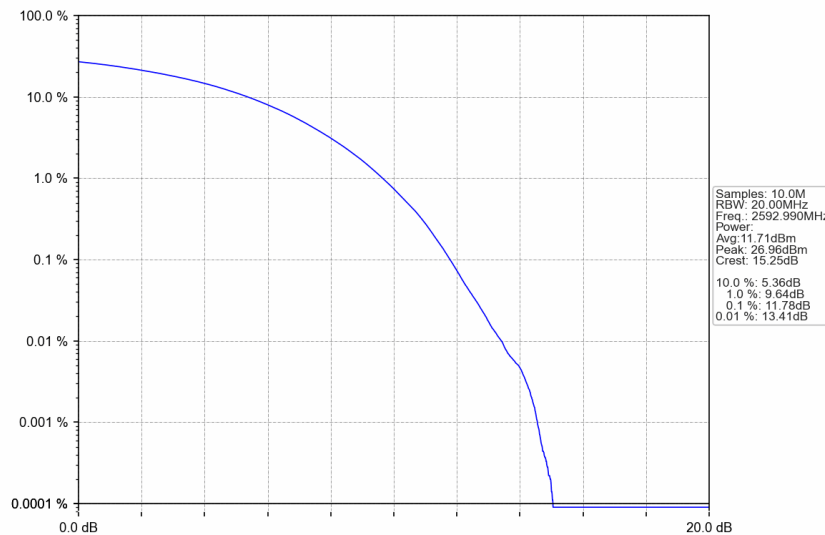
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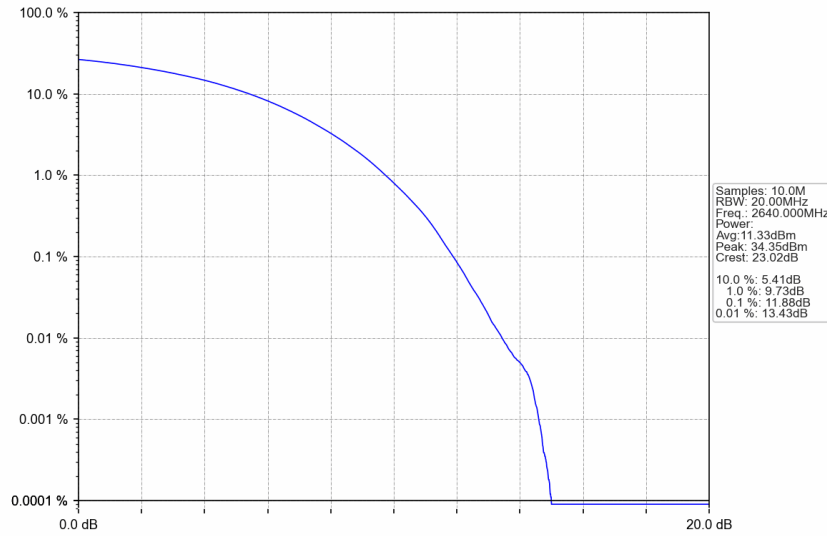


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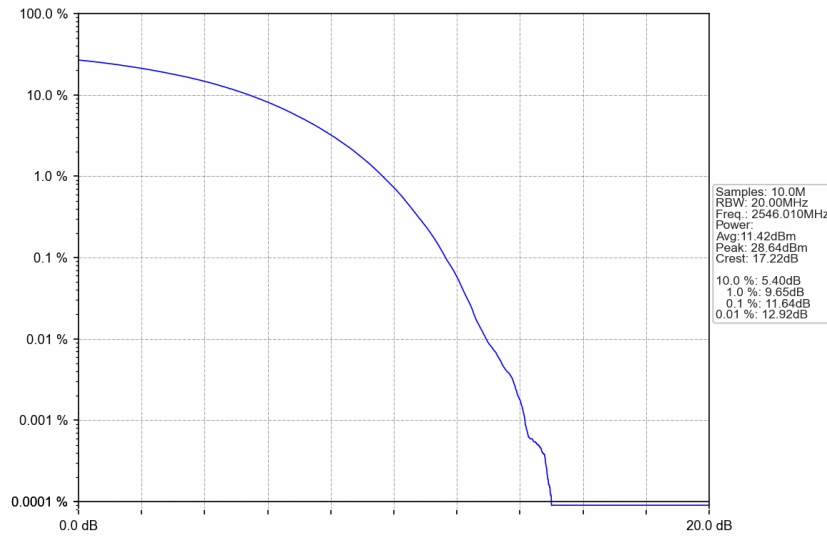
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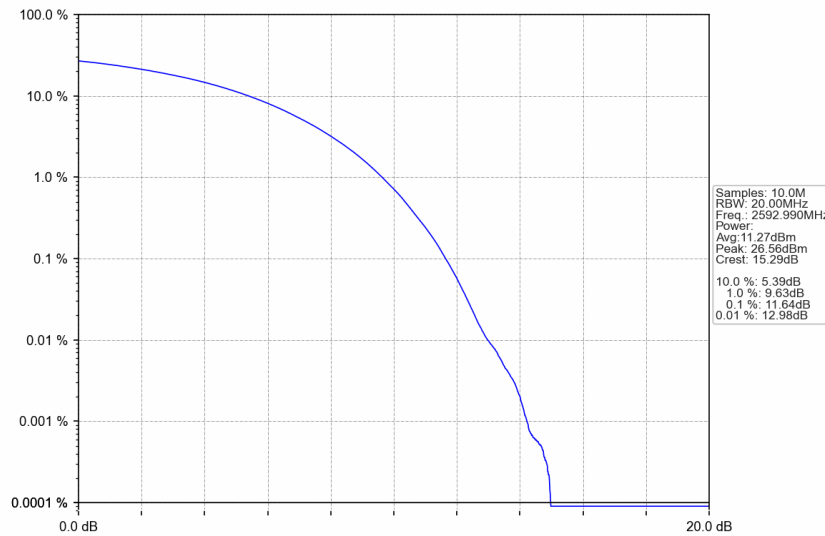
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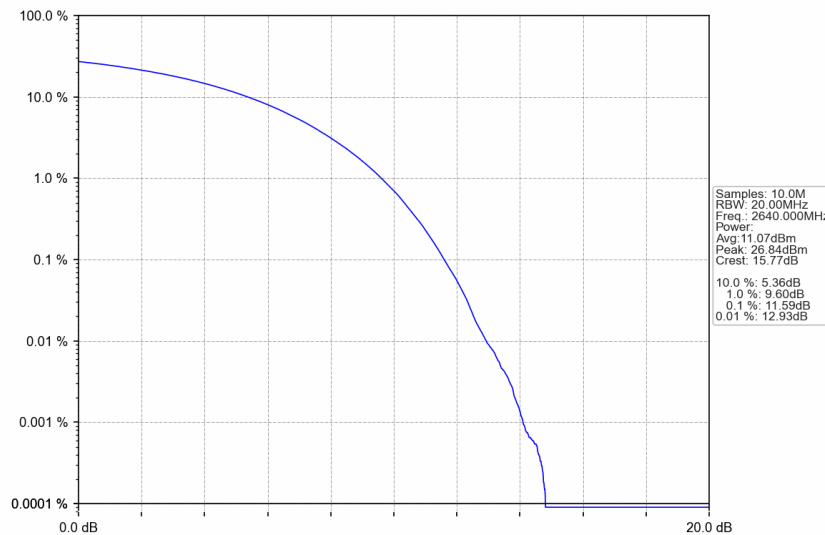
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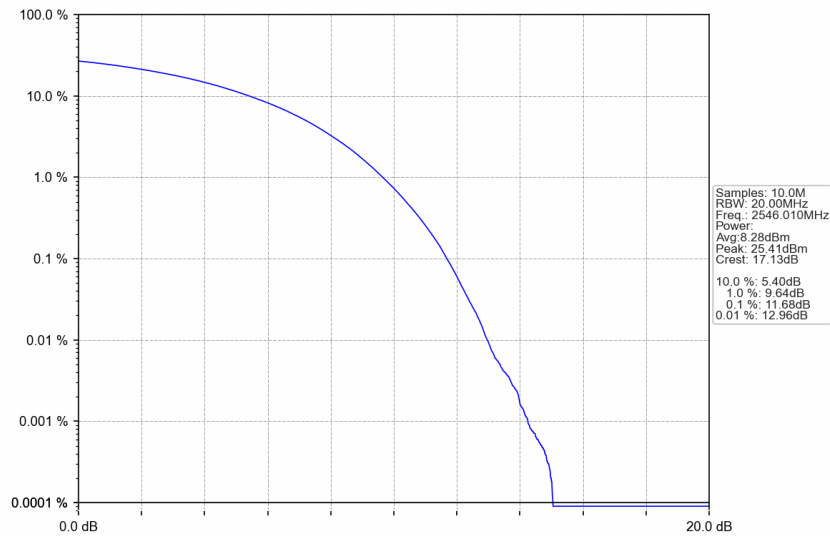
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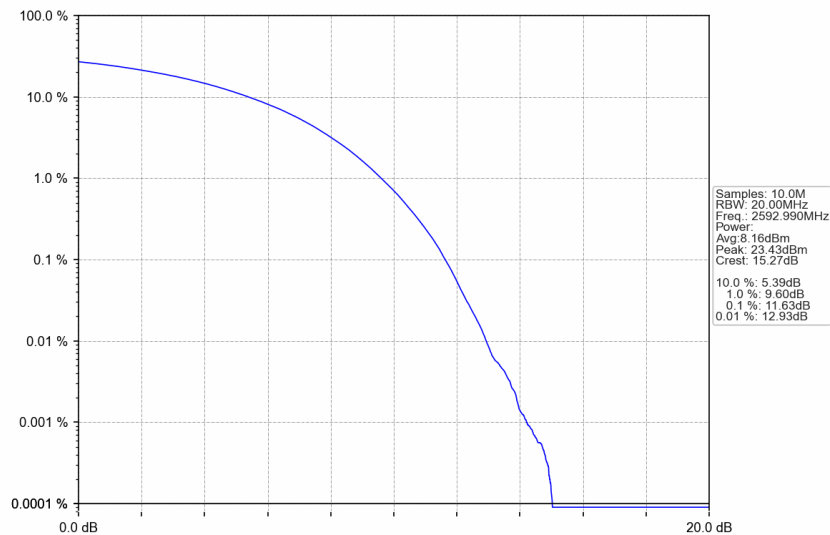
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n41_30kHz_SISO_NTNV_100MHz_CP-OFDM 256 QAM_2546.01MHz_Outer_Full



n41_30kHz_SISO_NTNV_100MHz_CP-OFDM 256 QAM_2592.99MHz_Outer_Full



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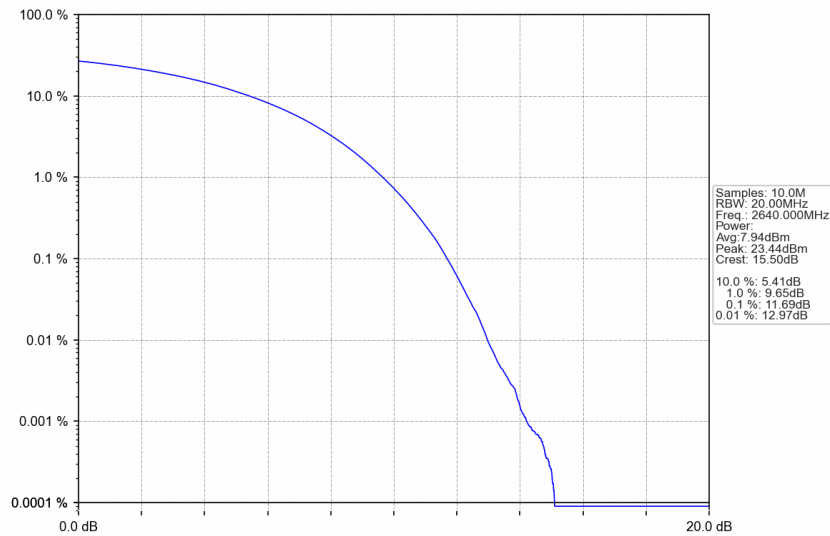
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n41_30kHz_SISO_NTNV_100MHz_CP-OFDM 256 QAM_2640MHz_Outer_Full



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6. Spurious Emission & Band Edges

6.1 15k_SISO_10MHz_NTNV

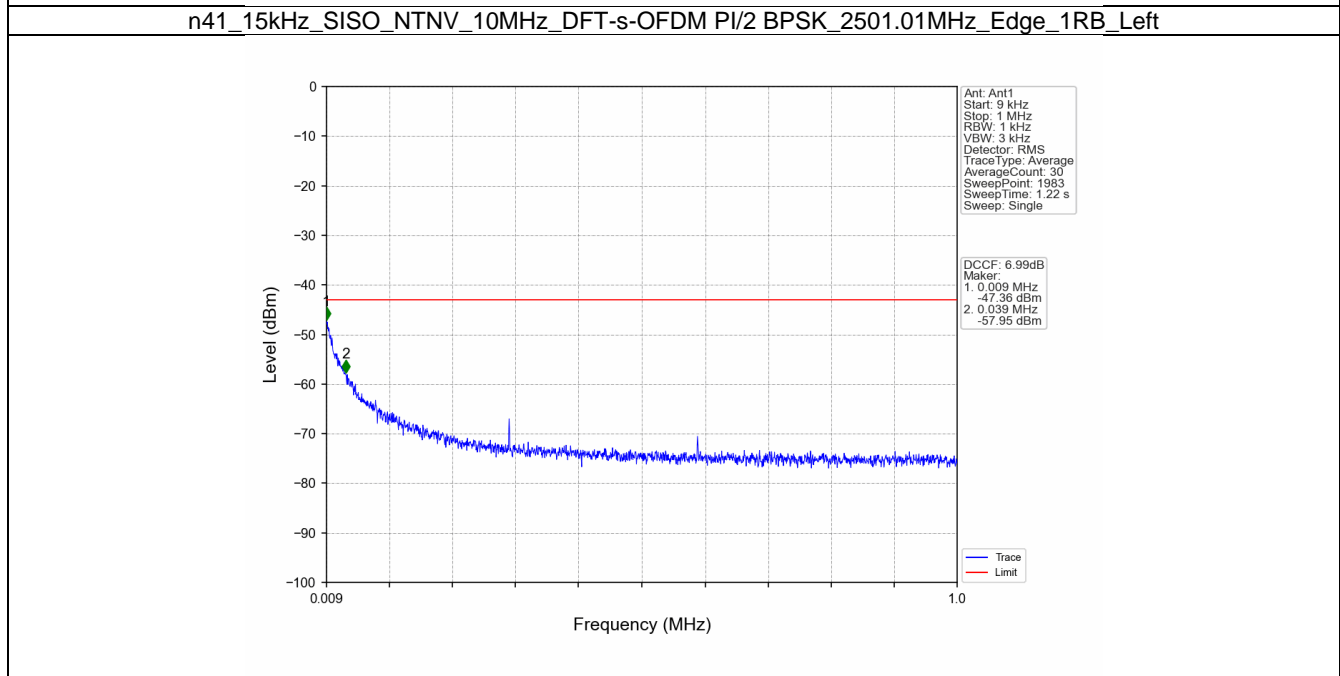
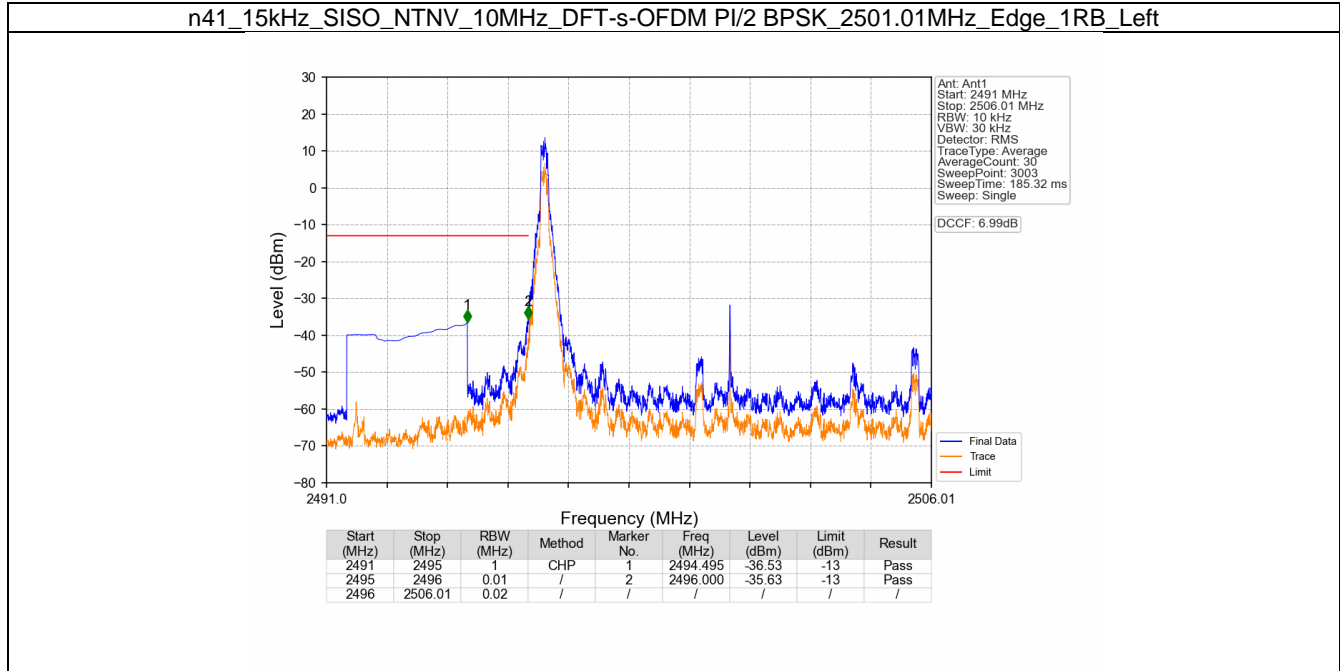
6.1.1 Test Result

Table with columns: Modulation, Frequency (MHz), RB Allocation, Spurious Emission (Ant1, Ant2, Sum, Limit), and Verdict. It details test results for DFT-s-OFDM PI/2 BPSK, DFT-s-OFDM QPSK, and CP-OFDM QPSK across various frequencies and RB allocations.



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6.1.2 Test Graph



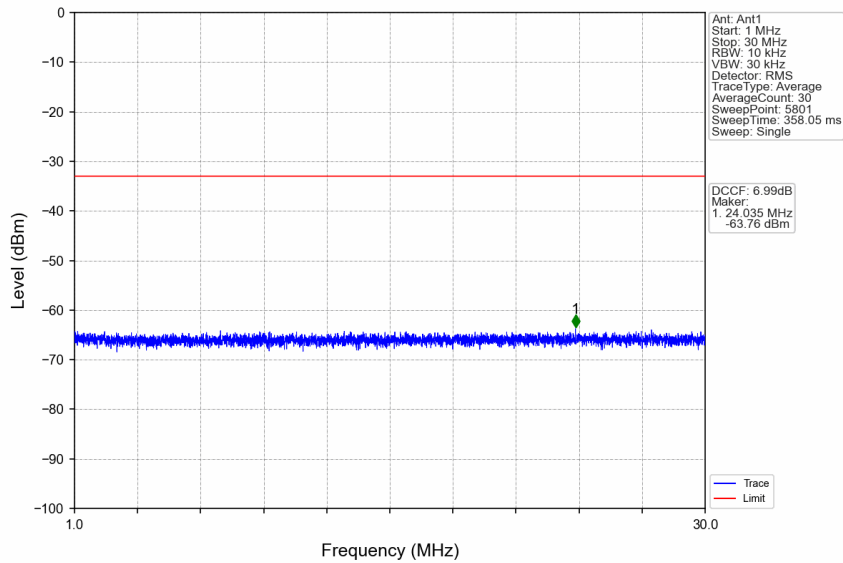
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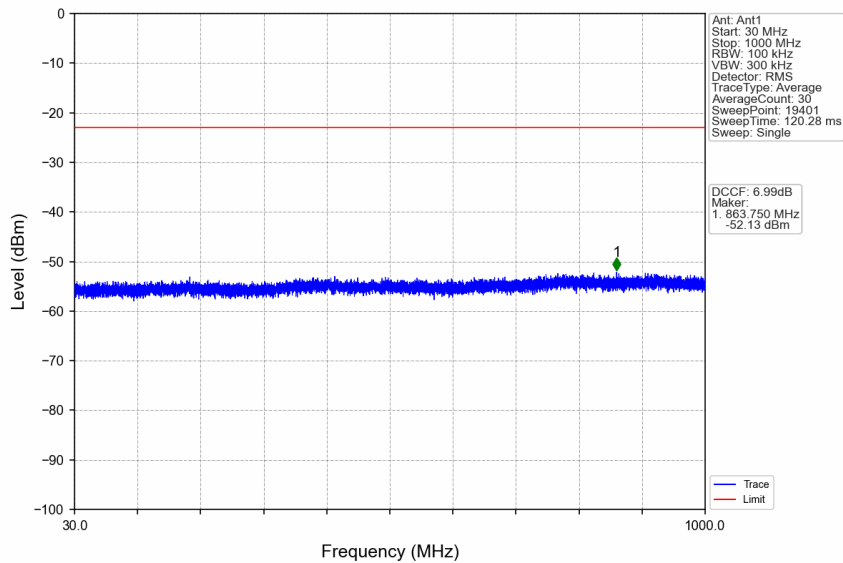
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n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2501.01MHz_Edge_1RB_Left



n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2501.01MHz_Edge_1RB_Left

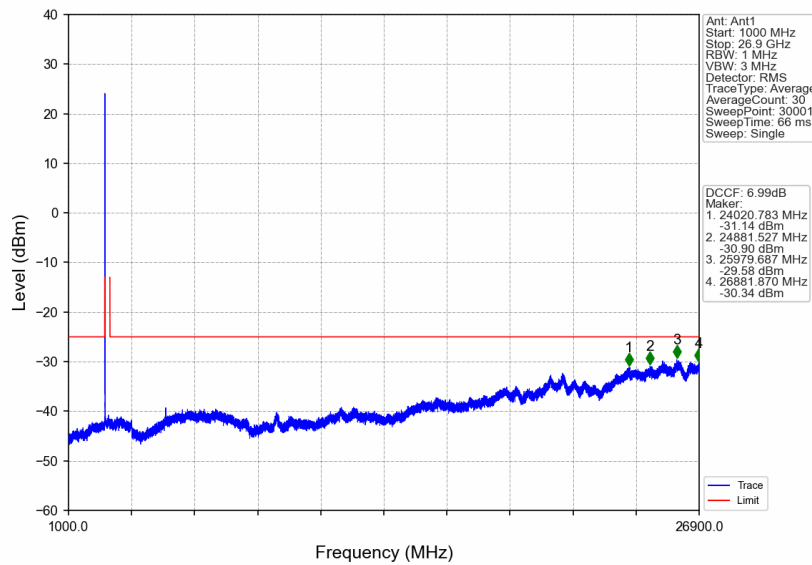


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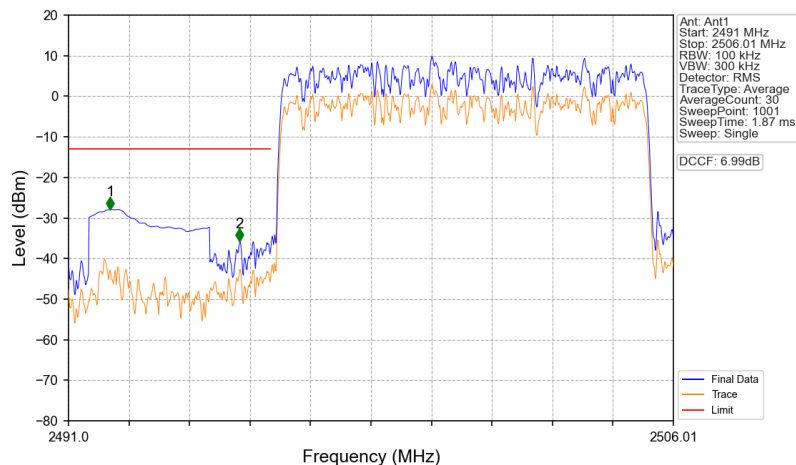
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n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2501.01MHz_Edge_1RB_Left



n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2501.01MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2491	2495	1	CHP	1	2492.036	-27.89	-13	Pass
2495	2496	0.1	/	2	2495.248	-35.72	-13	Pass
2496	2506.01	0.195	/	/	/	/	/	/

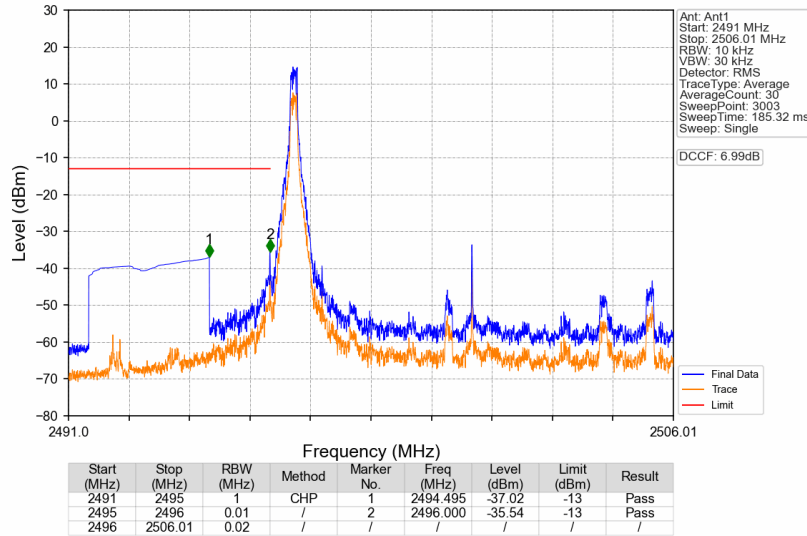


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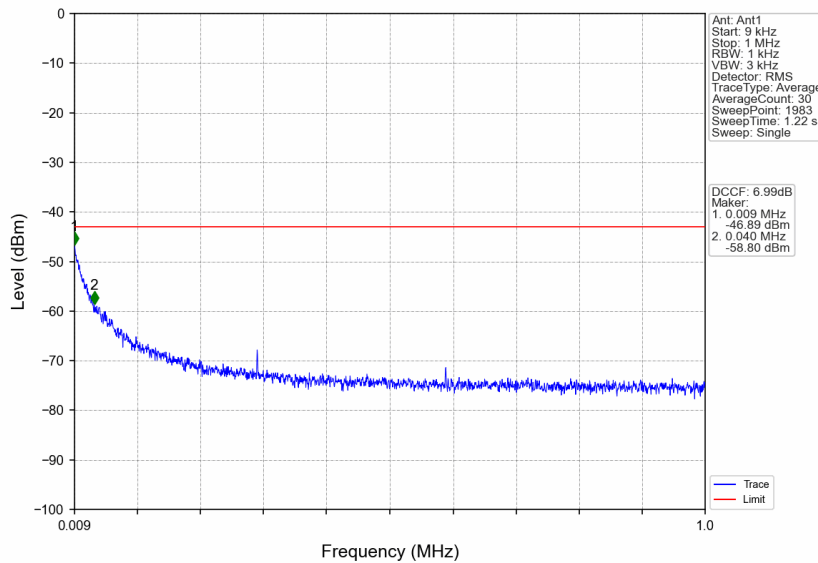
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n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2593.005MHz_Edge_1RB_Left



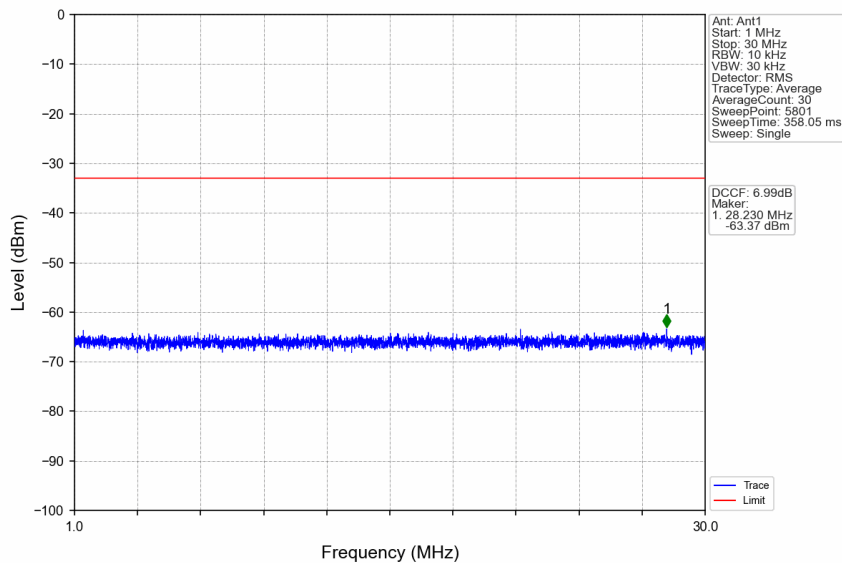
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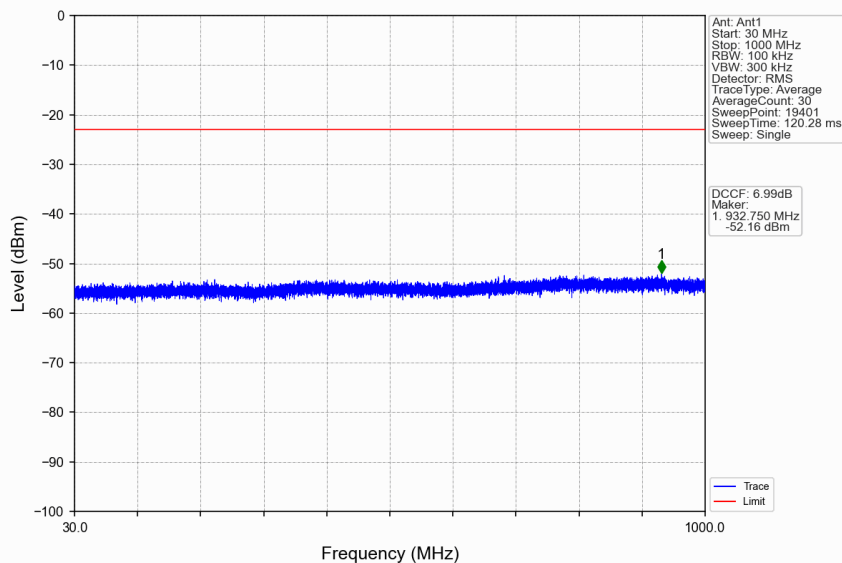
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n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2593.005MHz_Edge_1RB_Left



n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2593.005MHz_Edge_1RB_Left

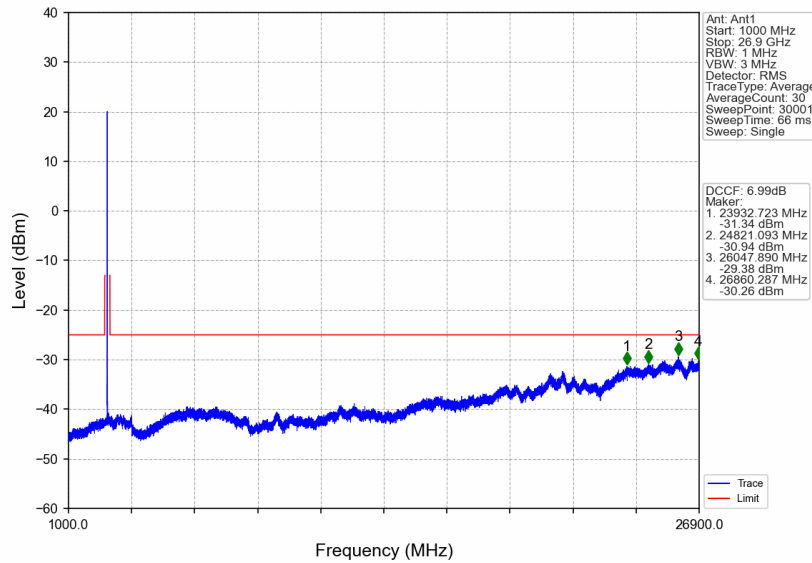


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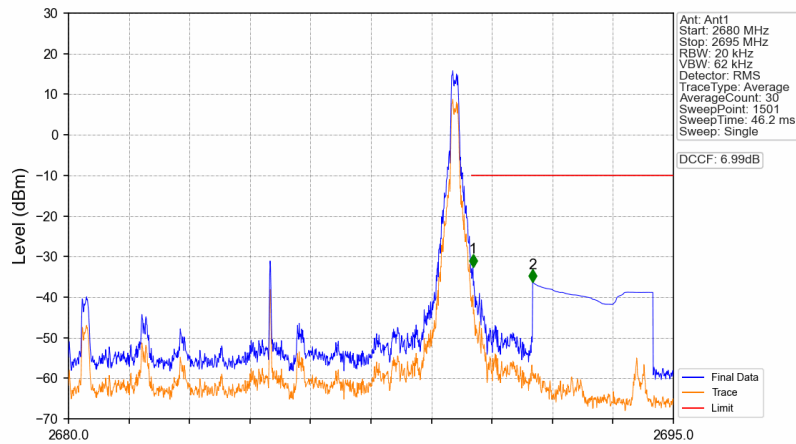
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n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2685MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2680	2690	0.02	/	/	/	/	/	/
2690	2691	0.02	/	1	2690.030	-32.52	-10	Pass
2691	2695	1	CHP	2	2691.510	-36.33	-10	Pass



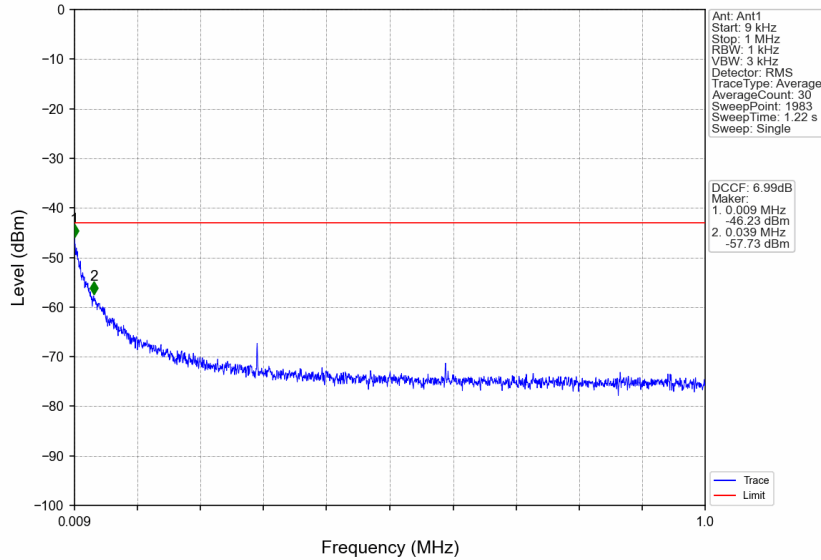
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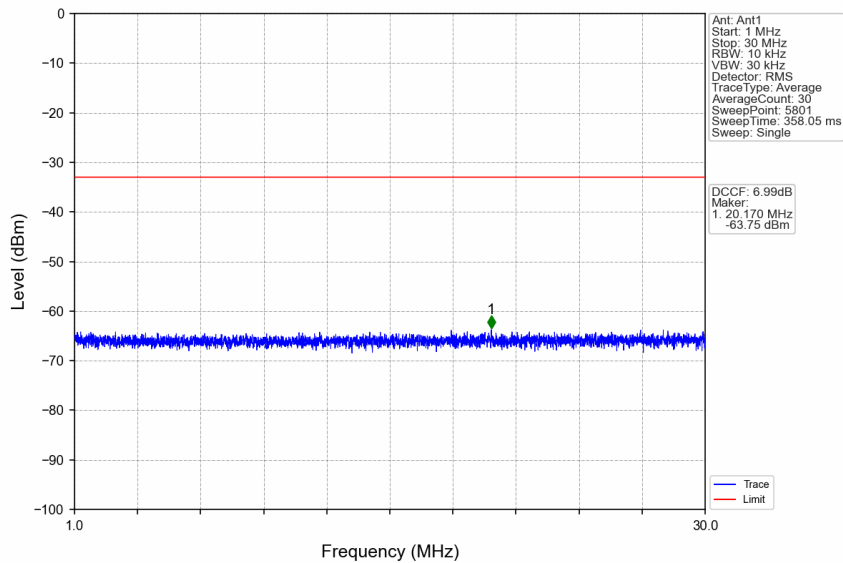
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n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2685MHz_Edge_1RB_Right

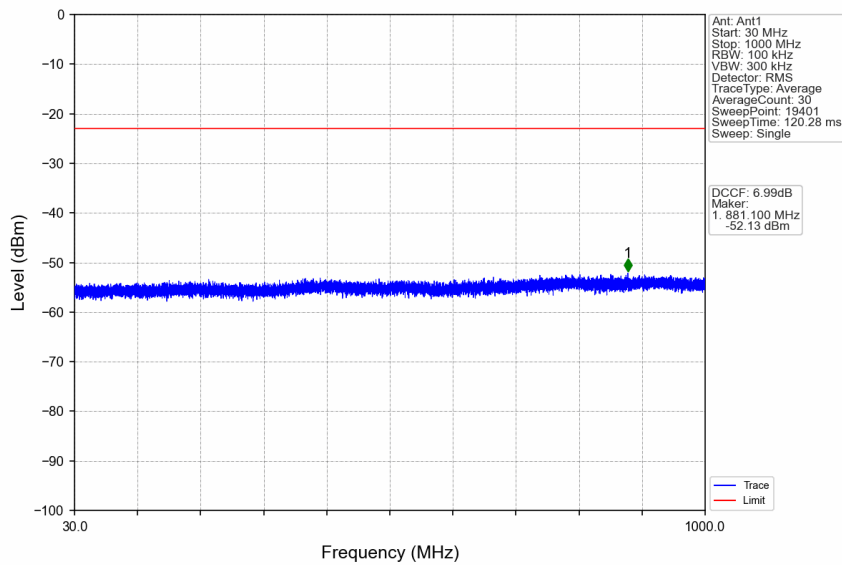


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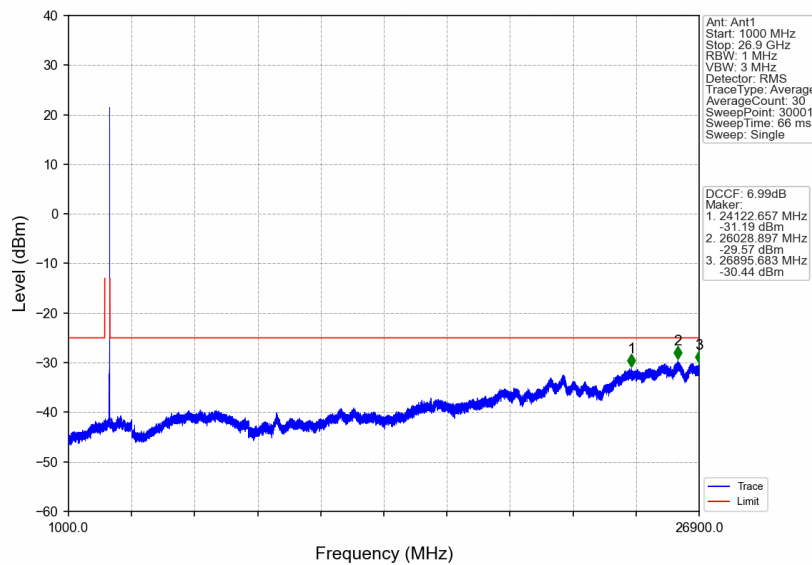
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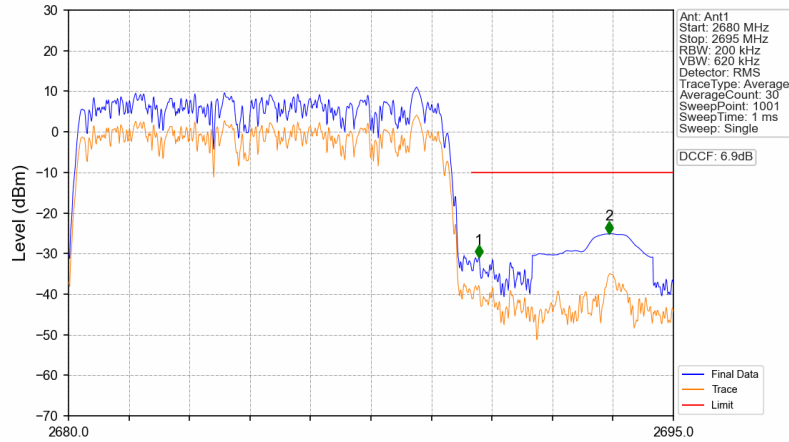
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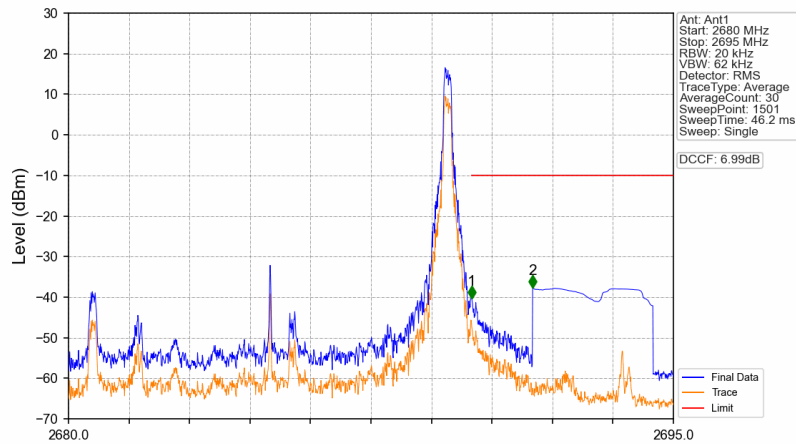
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2680	2690	0.2	/	/	/	/	/	/
2690	2691	0.2	/	1	2690.170	-30.97	-10	Pass
2691	2695	1	CHP	2	2693.410	-25.13	-10	Pass

n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2685MHz_Inner_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2680	2690	0.02	/	/	/	/	/	/
2690	2691	0.02	/	1	2690.000	-40.38	-10	Pass
2691	2695	1	CHP	2	2691.510	-37.80	-10	Pass

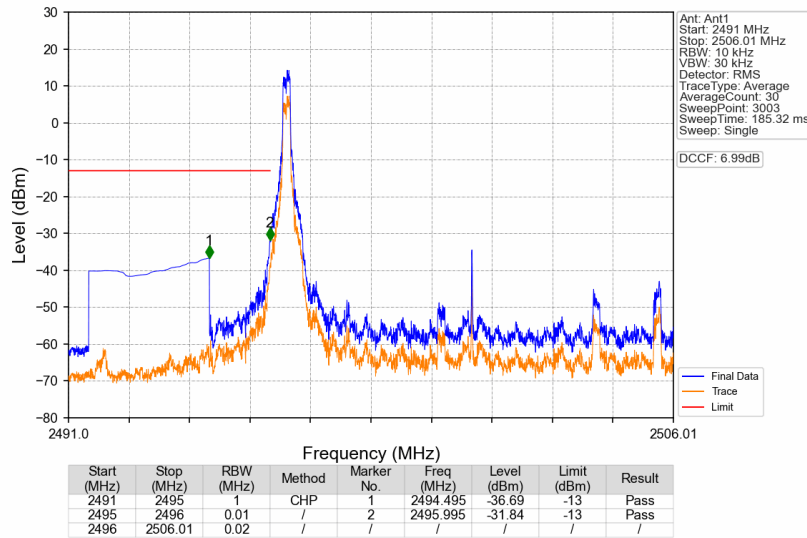


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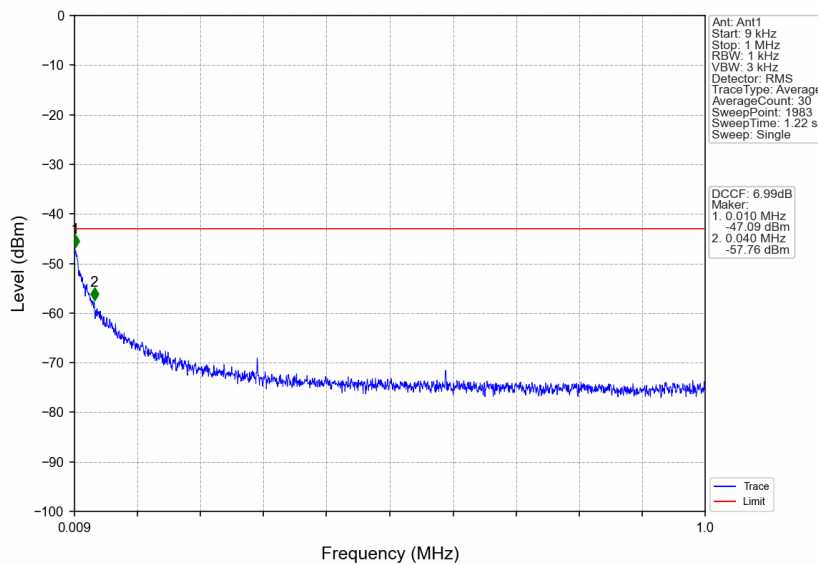
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n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2501.01MHz_Edge_1RB_Left



n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2501.01MHz_Edge_1RB_Left



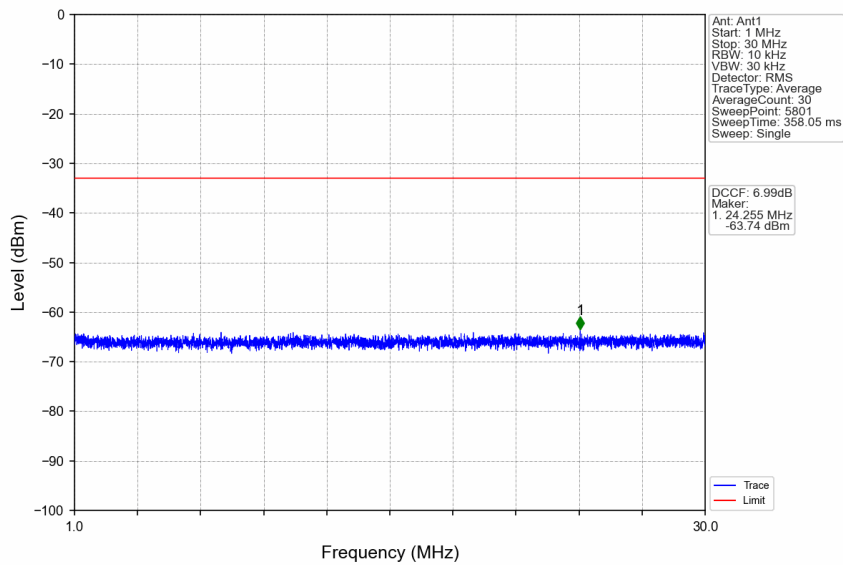
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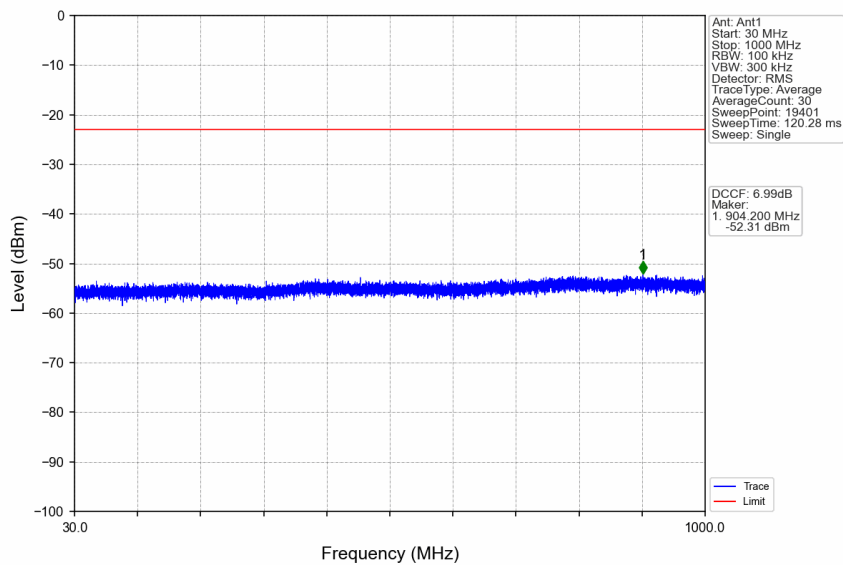
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n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2501.01MHz_Edge_1RB_Left



n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2501.01MHz_Edge_1RB_Left

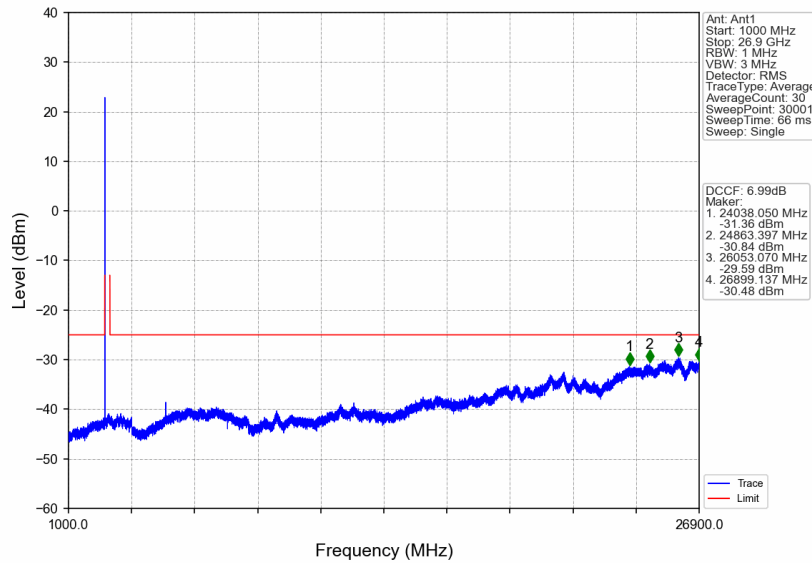


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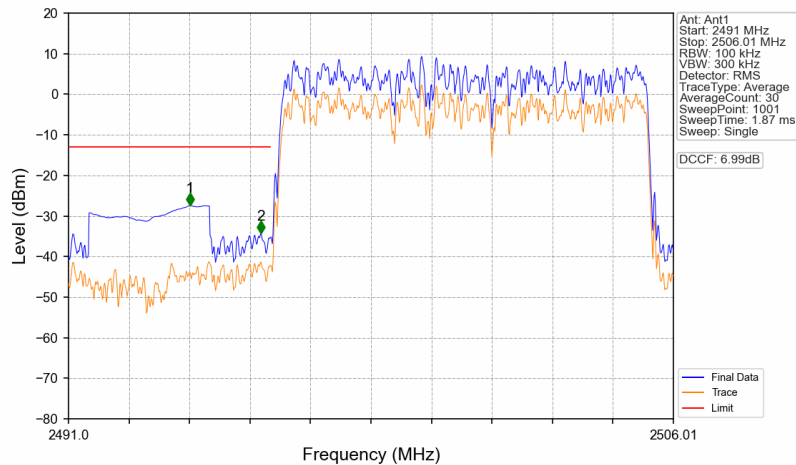
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n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2501.01MHz_Edge_1RB_Left



n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2501.01MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2491	2495	1	CHP	1	2494.017	-27.41	-13	Pass
2495	2496	0.1	/	2	2495.773	-34.32	-13	Pass
2496	2506.01	0.193	/	/	/	/	/	/



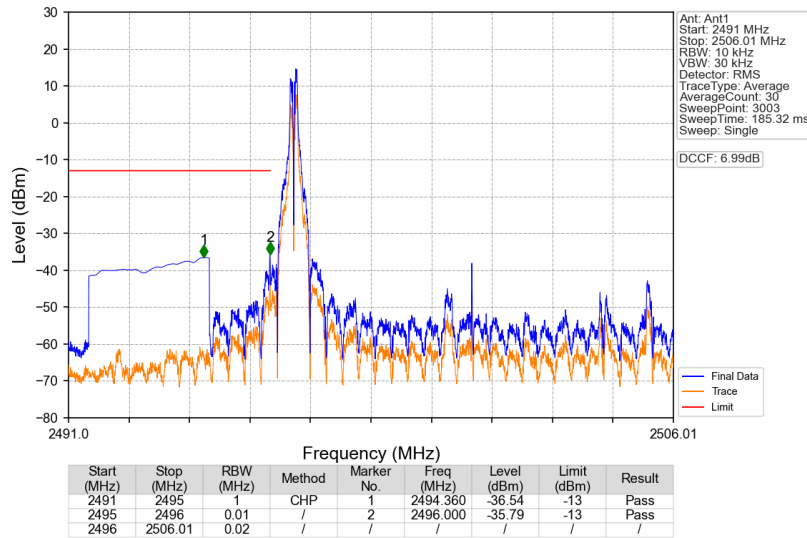
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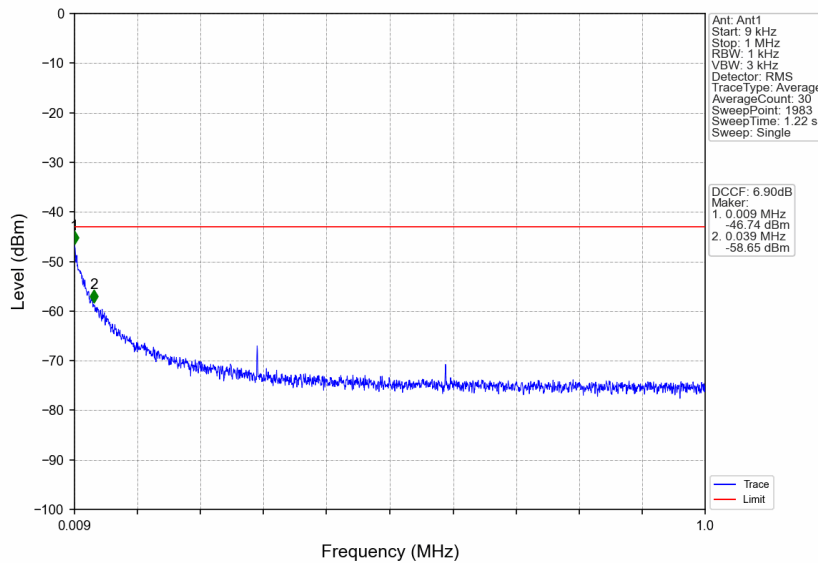
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n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2593.005MHz_Edge_1RB_Left

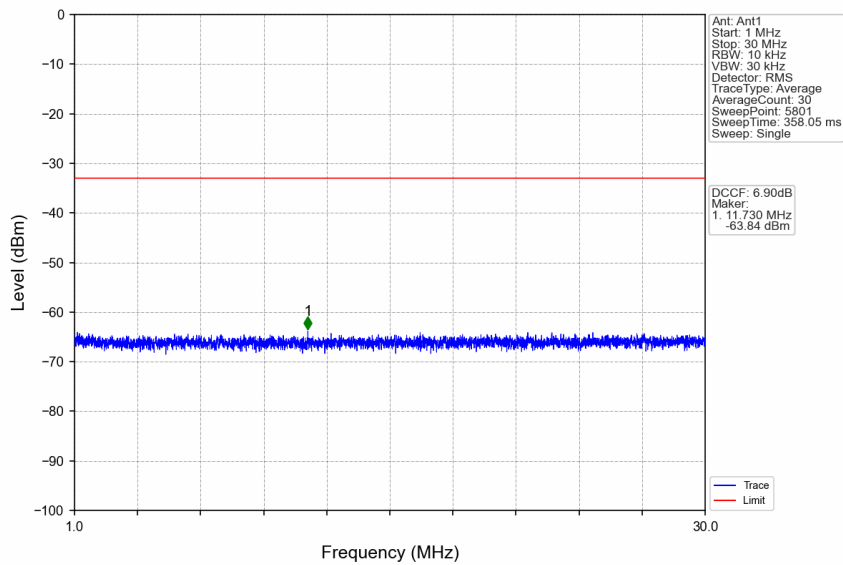


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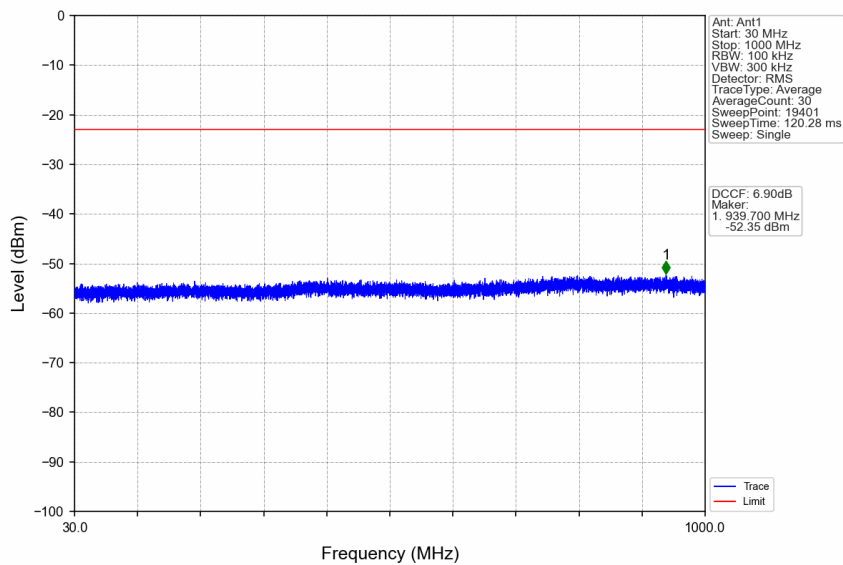
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n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2593.005MHz_Edge_1RB_Left



n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2593.005MHz_Edge_1RB_Left

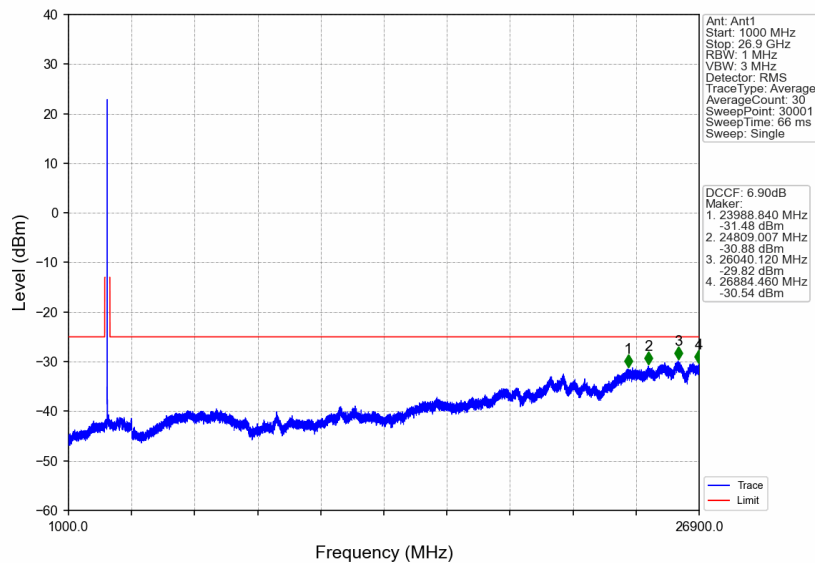


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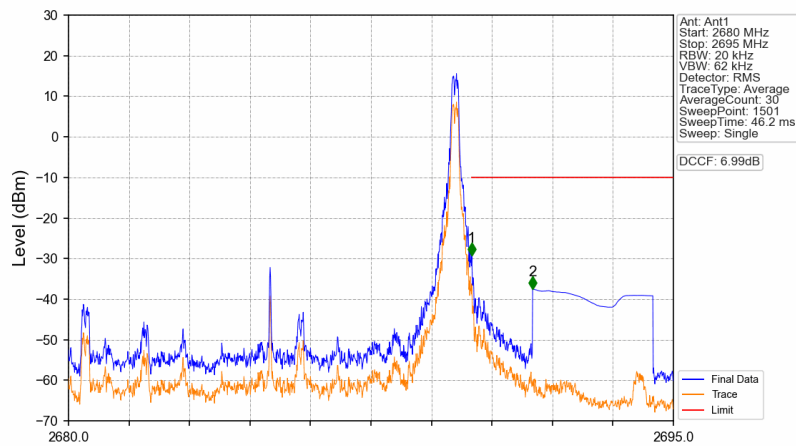
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n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2593.005MHz_Edge_1RB_Left



n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2685MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2680	2690	0.02	/	/	/	/	/	/
2690	2691	0.02	/	1	2690.000	-29.21	-10	Pass
2691	2695	1	CHP	2	2691.510	-37.51	-10	Pass



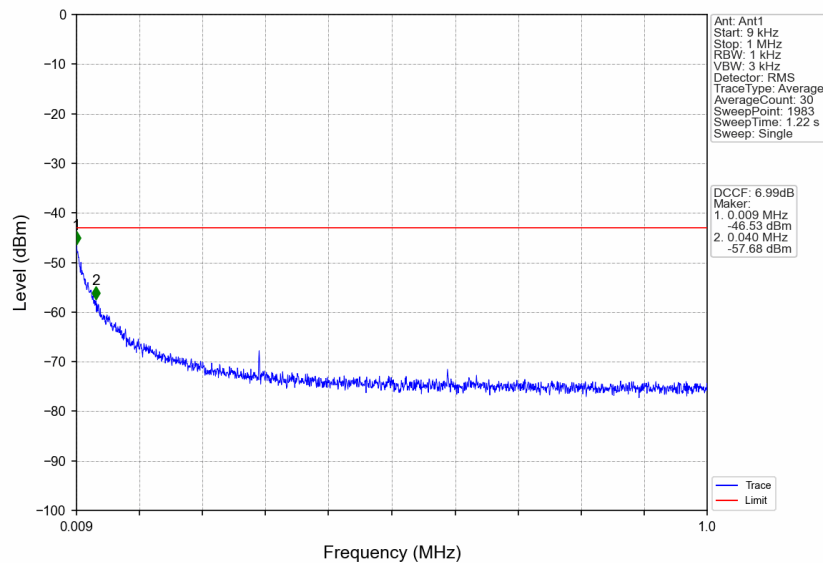
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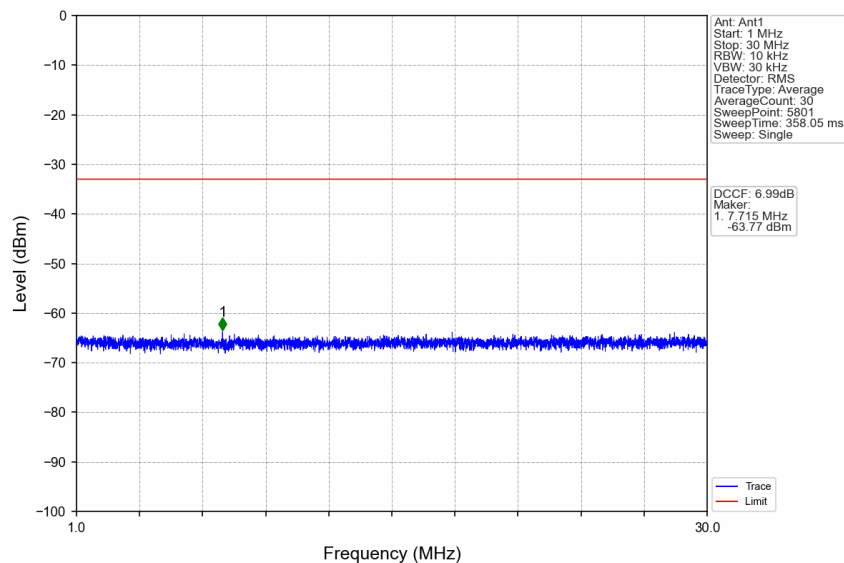
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n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2685MHz_Edge_1RB_Right



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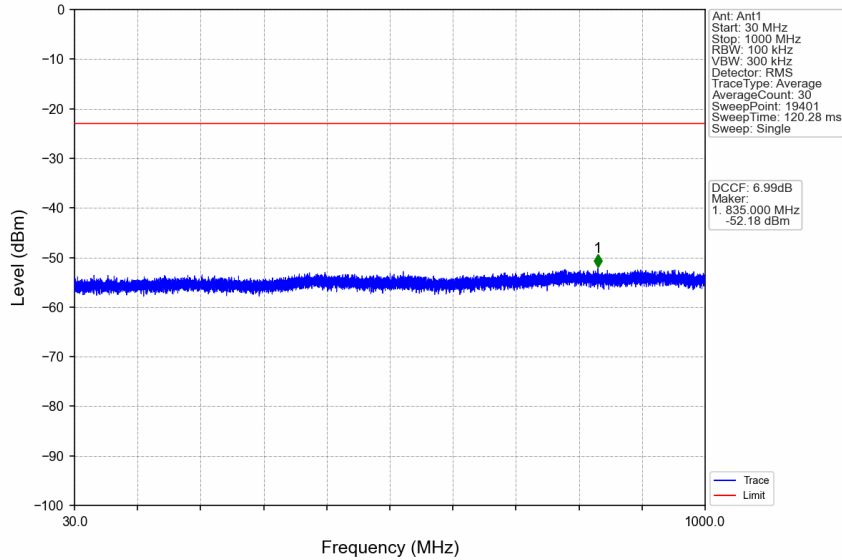
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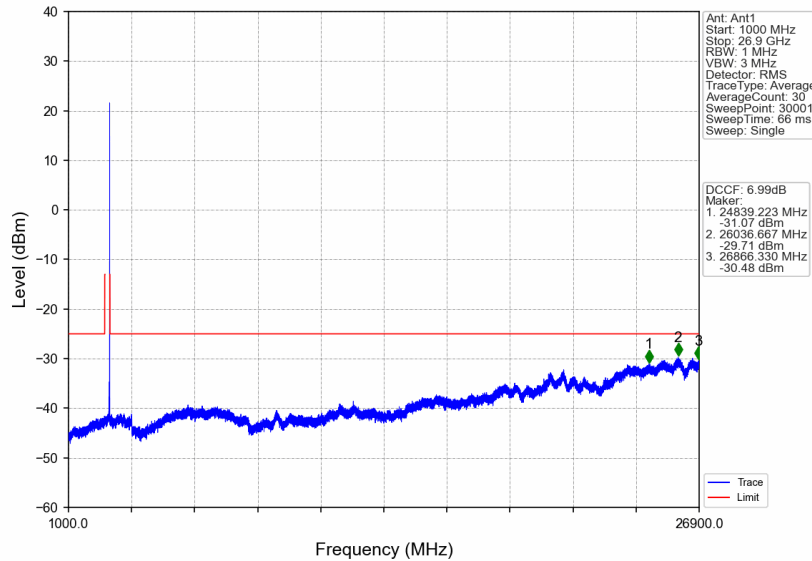
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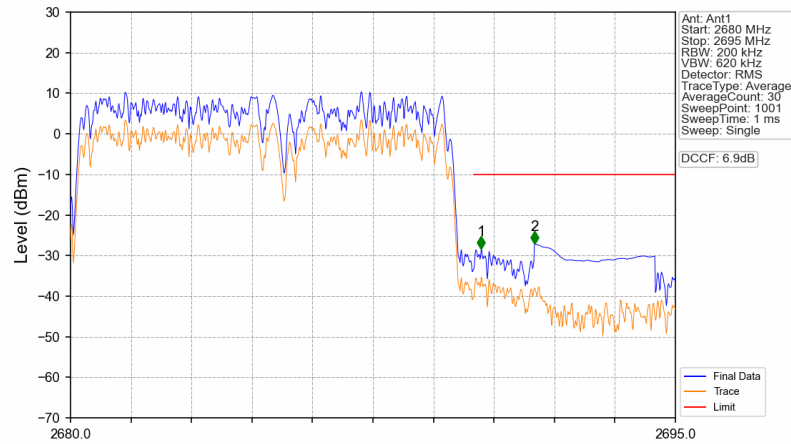


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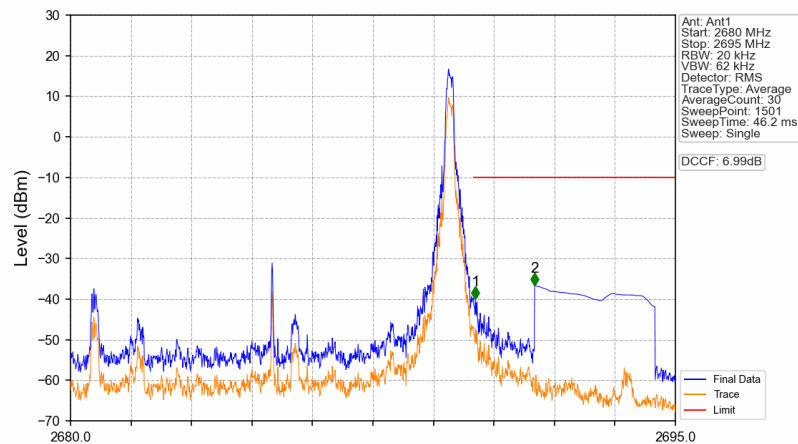
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n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_2685MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2680	2690	0.2	/	/	/	/	/	/
2690	2691	0.2	/	1	2690.185	-28.46	-10	Pass
2691	2695	1	CHP	2	2691.505	-27.16	-10	Pass

n41_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_2685MHz_Inner_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2680	2690	0.02	/	/	/	/	/	/
2690	2691	0.02	/	1	2690.040	-40.06	-10	Pass
2691	2695	1	CHP	2	2691.510	-36.65	-10	Pass



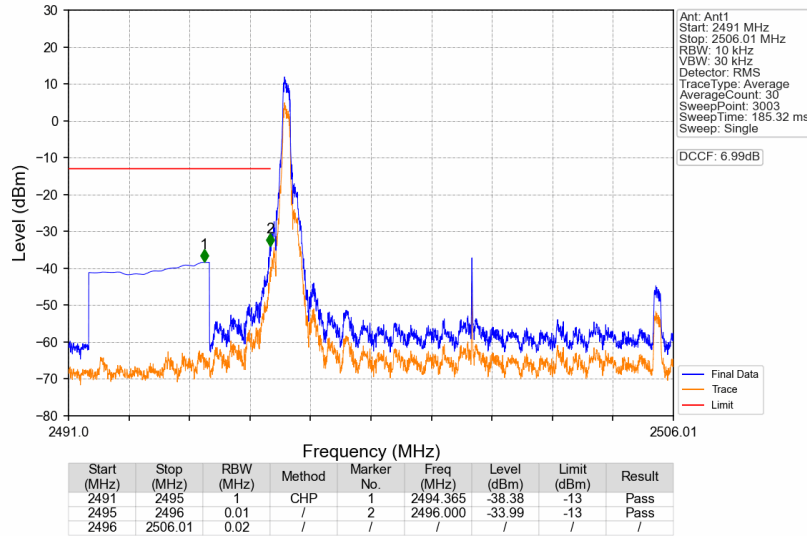
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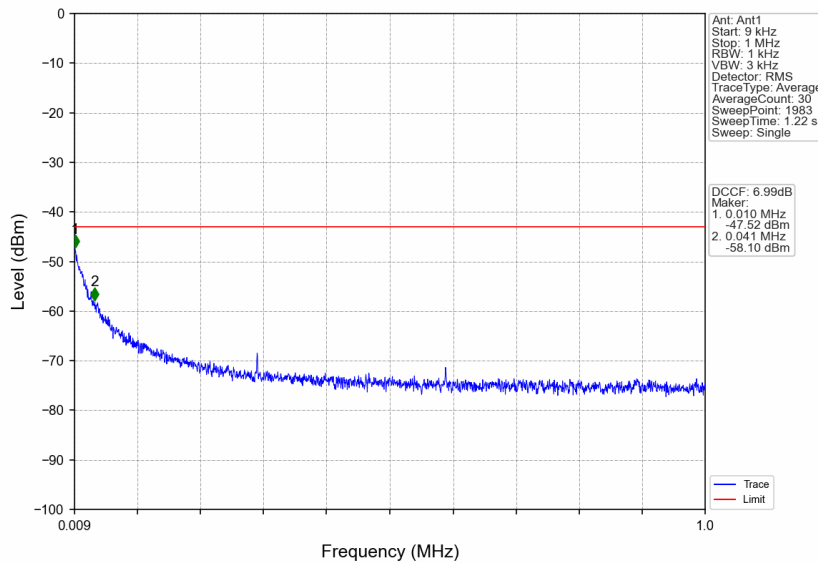
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n41_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2501.01MHz_Edge_1RB_Left

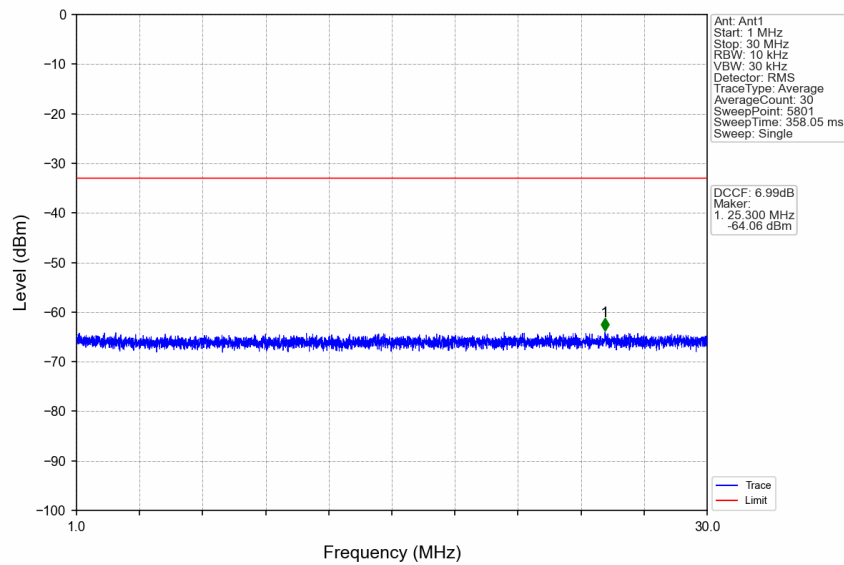


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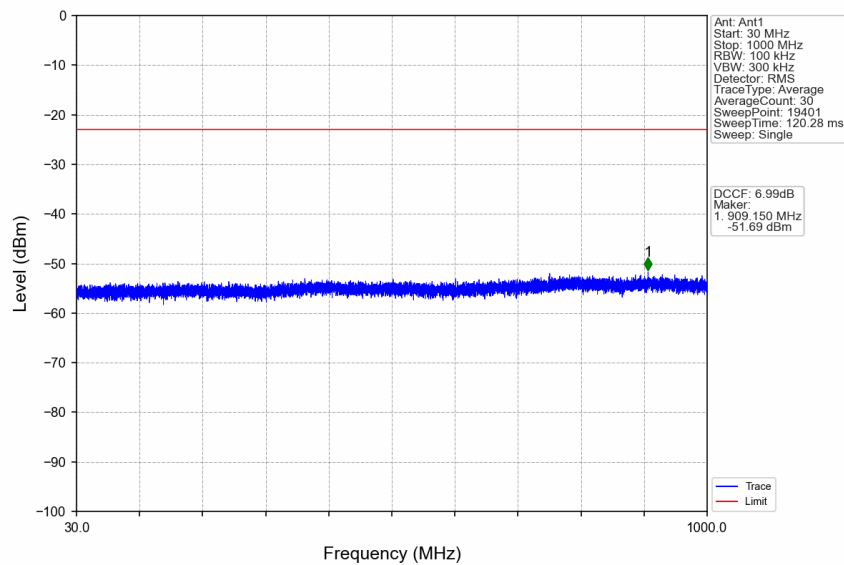
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n41_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2501.01MHz_Edge_1RB_Left



n41_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2501.01MHz_Edge_1RB_Left

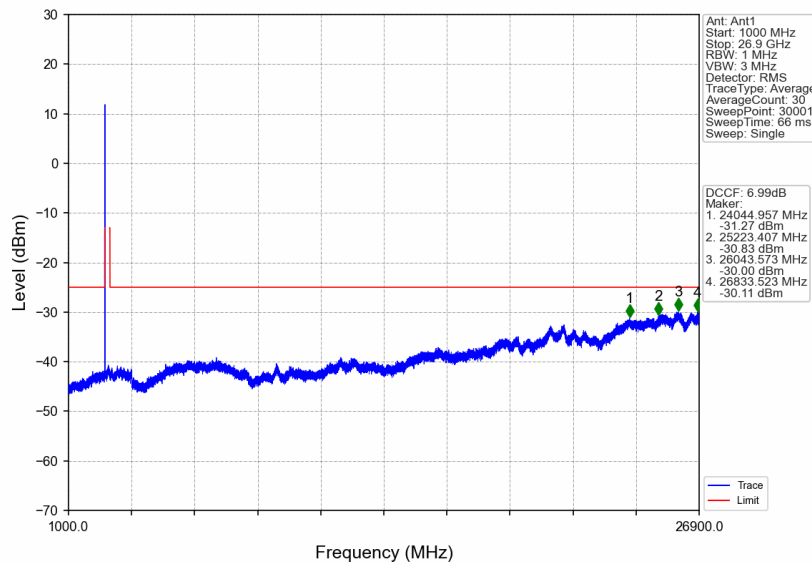


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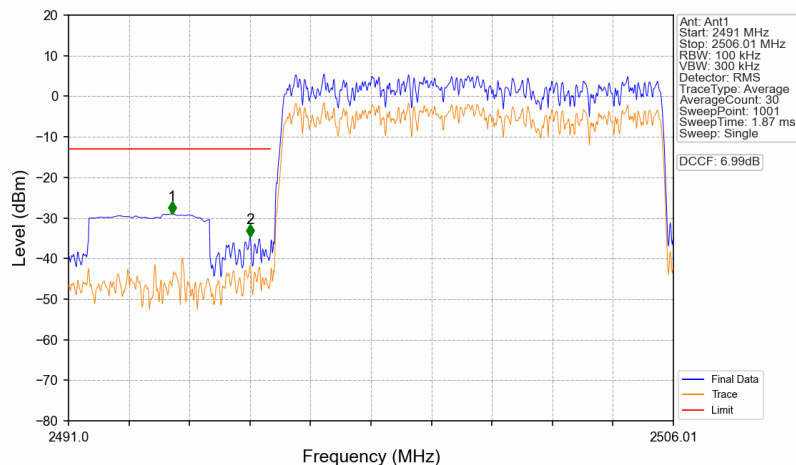
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n41_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2501.01MHz_Edge_1RB_Left



n41_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2501.01MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2491	2495	1	CHP	1	2493.567	-29.01	-13	Pass
2495	2496	0.1	/	2	2495.503	-34.71	-13	Pass
2496	2506.01	0.201	/	/	/	/	/	/



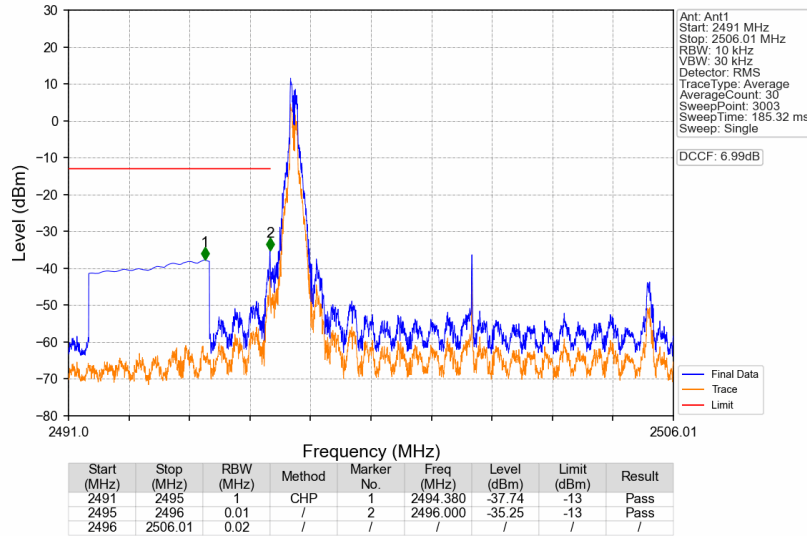
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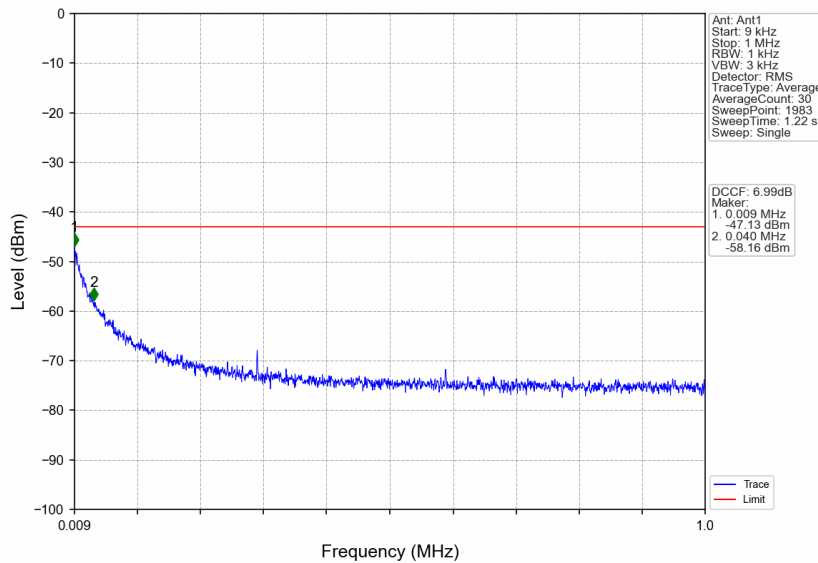
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n41_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2501.01MHz_Inner_1RB_Left



n41_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2593.005MHz_Edge_1RB_Left

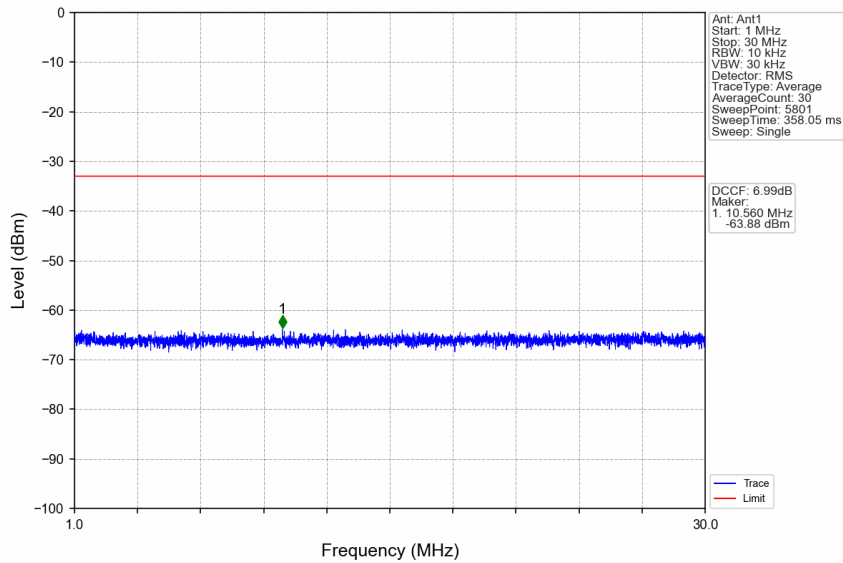


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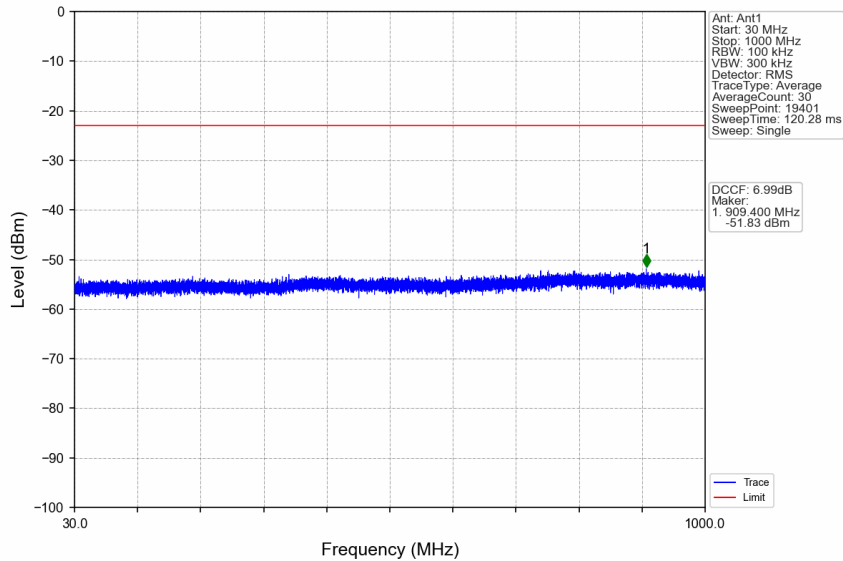
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n41_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2593.005MHz_Edge_1RB_Left



n41_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2593.005MHz_Edge_1RB_Left



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