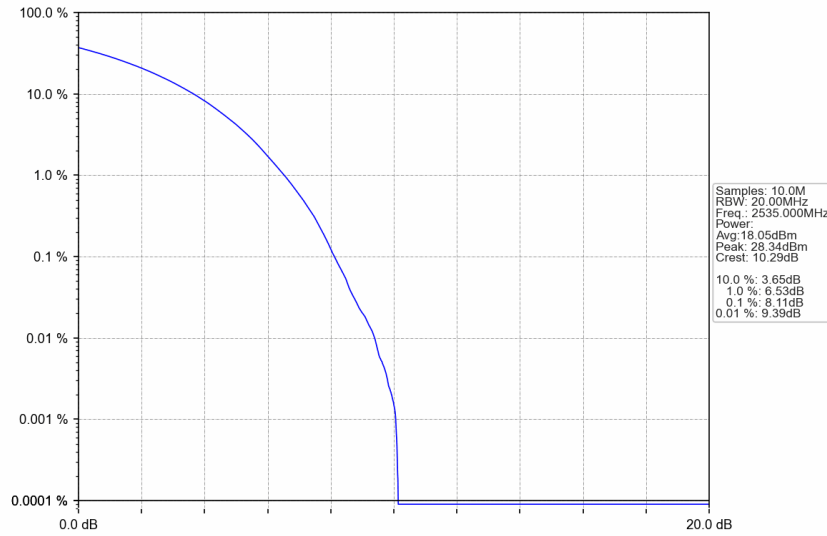
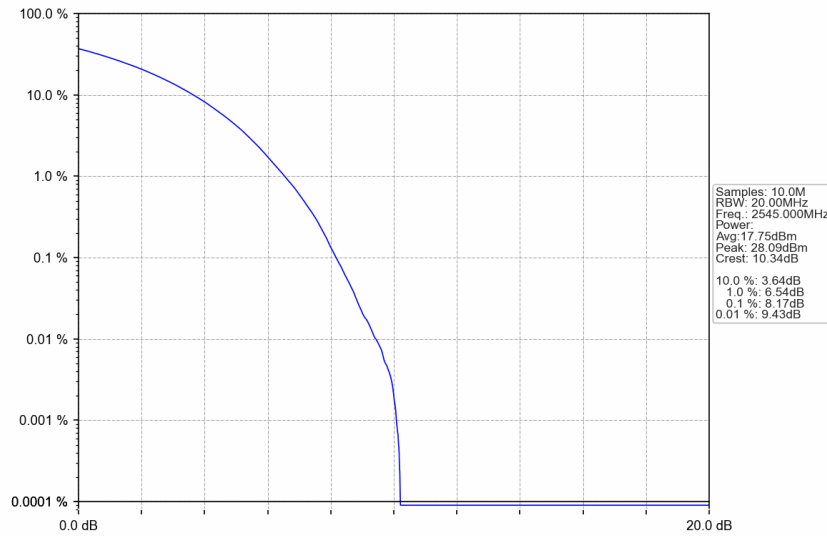


n7_15kHz_SISO_NTNV_50MHz_CP-OFDM QPSK_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_CP-OFDM QPSK_2545MHz_Outer_Full

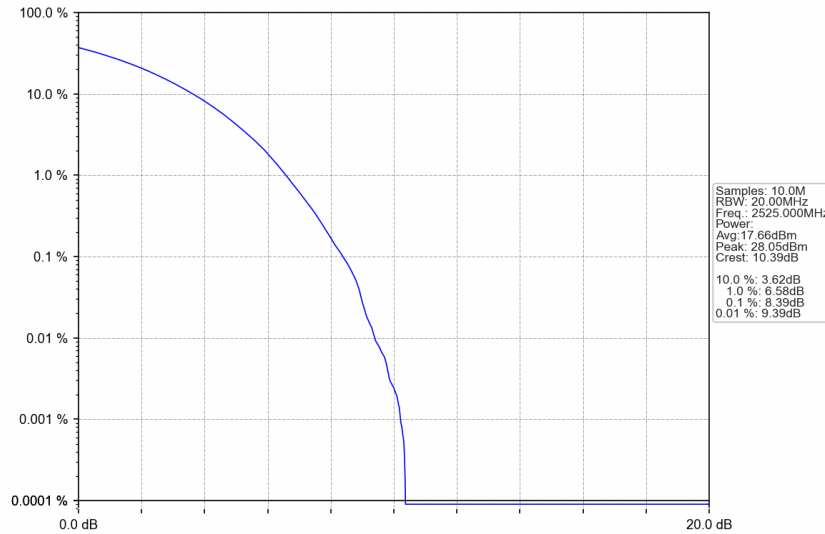


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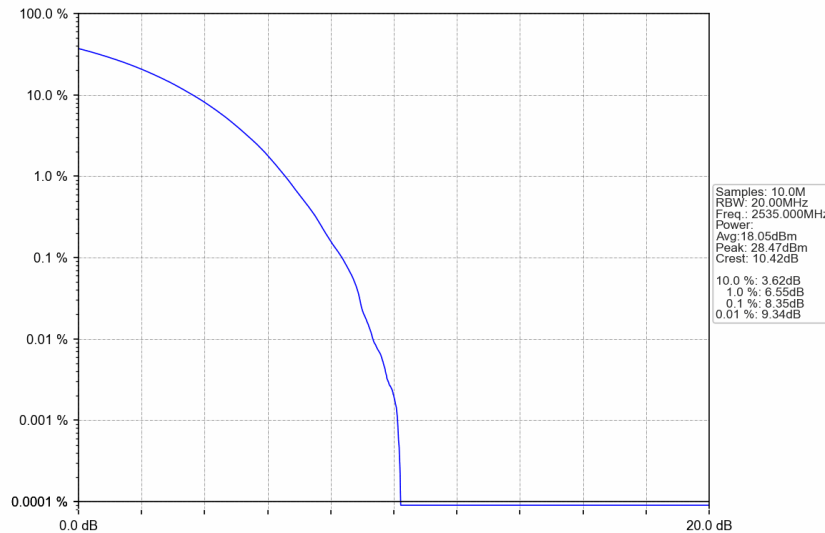
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n7_15kHz_SISO_NTNV_50MHz_CP-OFDM 16 QAM_2525MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_CP-OFDM 16 QAM_2535MHz_Outer_Full



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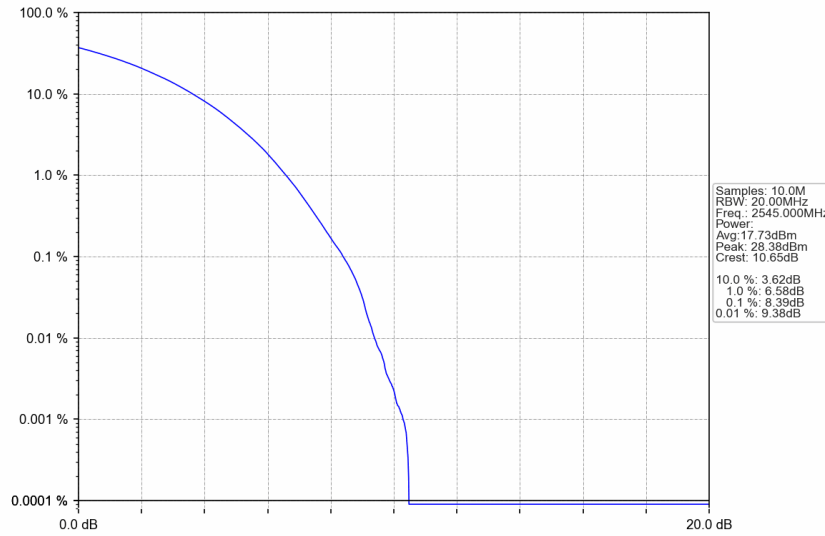
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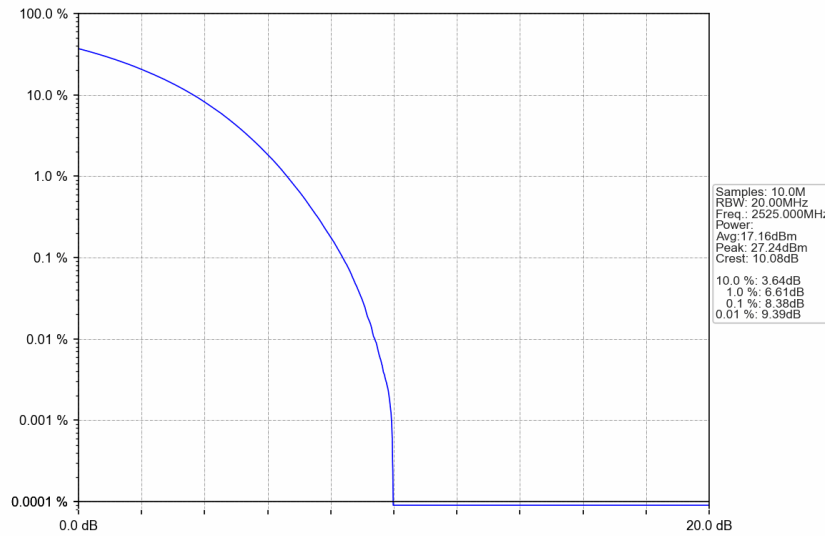
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n7_15kHz_SISO_NTNV_50MHz_CP-OFDM 16 QAM_2545MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_2525MHz_Outer_Full

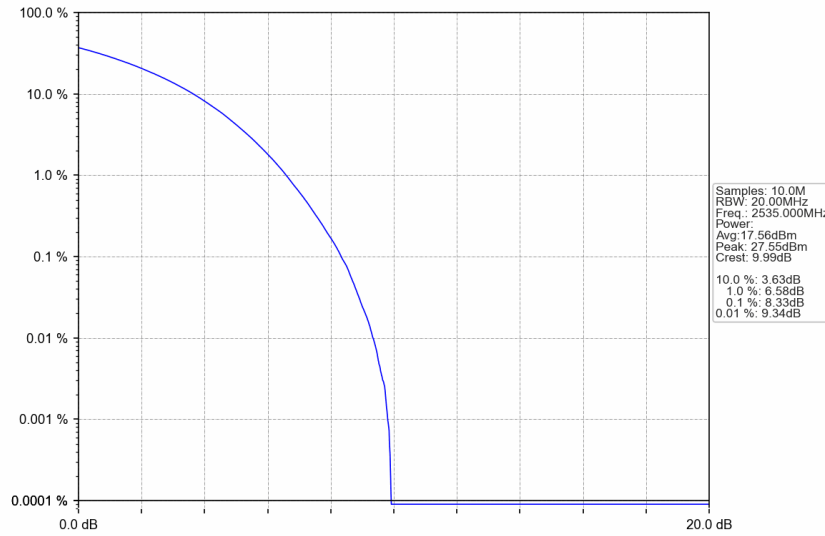


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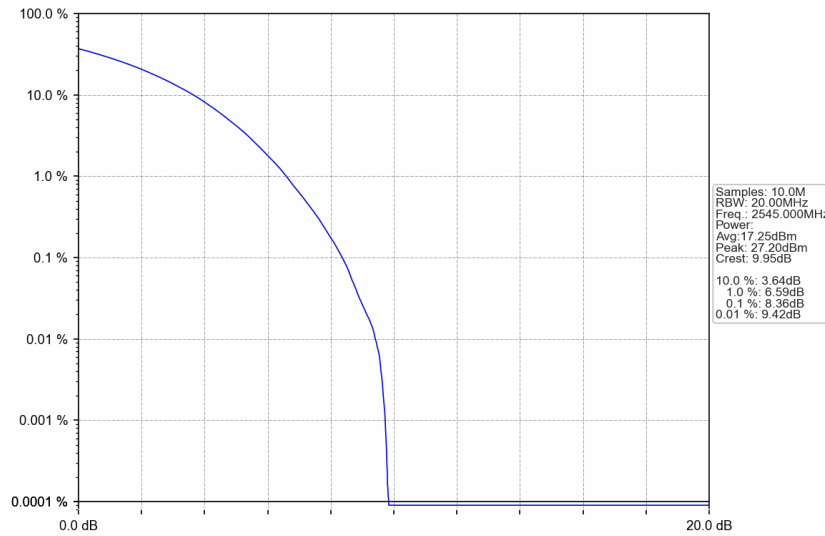
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n7_15kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_2545MHz_Outer_Full



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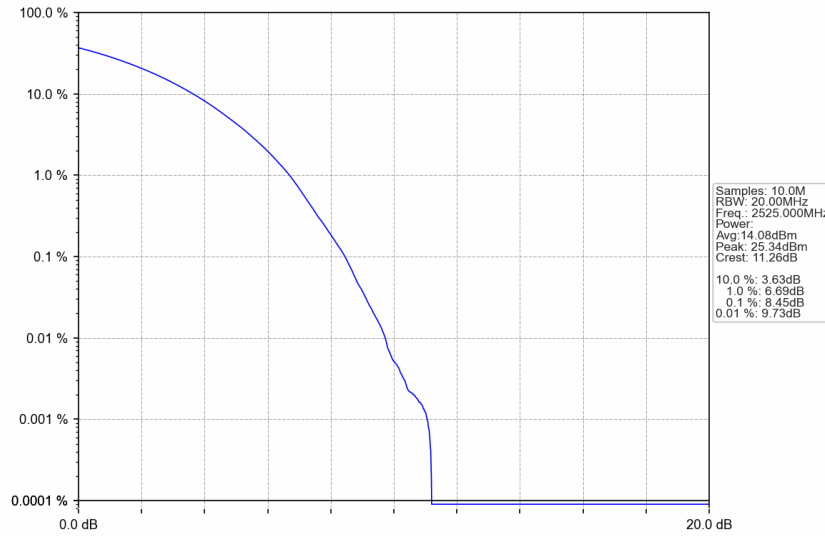
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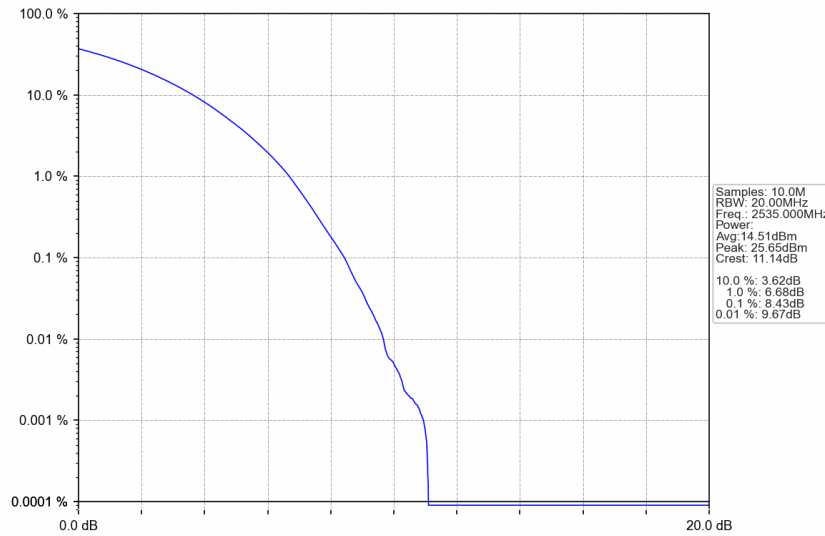
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n7_15kHz_SISO_NTNV_50MHz_CP-OFDM 256 QAM_2525MHz_Outer_Full



n7_15kHz_SISO_NTNV_50MHz_CP-OFDM 256 QAM_2535MHz_Outer_Full



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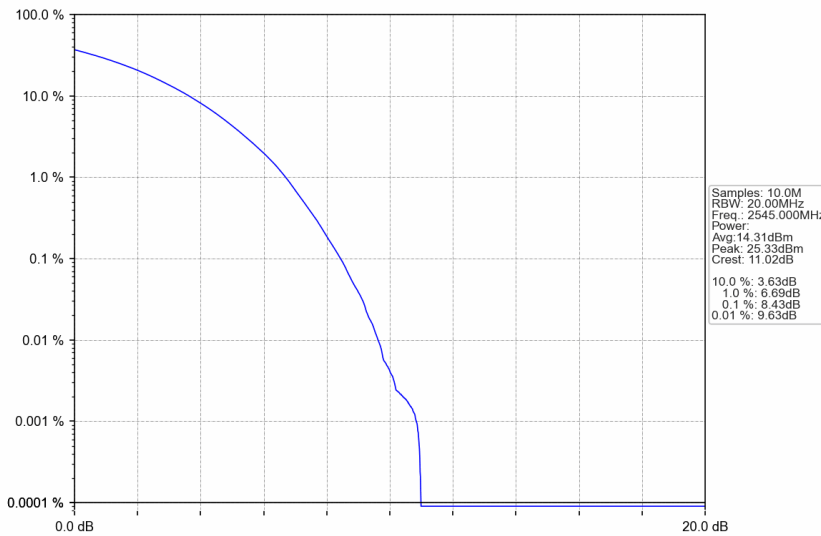


Report No.: SEWM2311000456RG02

Rev.: 01

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n7_15kHz_SISO_NTNV_50MHz_CP-OFDM 256 QAM_2545MHz_Outer_Full



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5.9 30k_SISO_10MHz_NTNV

5.9.1 Test Result

5G NR n7 SCS=30kHz SISO 10MHz NNTNV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2505	Outer_Full	4.20	/	/	<=13	Pass
	2535	Outer_Full	4.19	/	/	<=13	Pass
	2565	Outer_Full	4.17	/	/	<=13	Pass
DFT-s-OFDM QPSK	2505	Outer_Full	5.25	/	/	<=13	Pass
	2535	Outer_Full	5.33	/	/	<=13	Pass
	2565	Outer_Full	5.30	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2505	Outer_Full	6.10	/	/	<=13	Pass
	2535	Outer_Full	6.17	/	/	<=13	Pass
	2565	Outer_Full	6.15	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2505	Outer_Full	6.31	/	/	<=13	Pass
	2535	Outer_Full	6.40	/	/	<=13	Pass
	2565	Outer_Full	6.40	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2505	Outer_Full	6.80	/	/	<=13	Pass
	2535	Outer_Full	6.85	/	/	<=13	Pass
	2565	Outer_Full	6.83	/	/	<=13	Pass
CP-OFDM QPSK	2505	Outer_Full	7.71	/	/	<=13	Pass
	2535	Outer_Full	7.79	/	/	<=13	Pass
	2565	Outer_Full	7.76	/	/	<=13	Pass
CP-OFDM 16 QAM	2505	Outer_Full	7.58	/	/	<=13	Pass
	2535	Outer_Full	7.68	/	/	<=13	Pass
	2565	Outer_Full	7.66	/	/	<=13	Pass
CP-OFDM 64 QAM	2505	Outer_Full	7.79	/	/	<=13	Pass
	2535	Outer_Full	7.87	/	/	<=13	Pass
	2565	Outer_Full	7.85	/	/	<=13	Pass
CP-OFDM 256 QAM	2505	Outer_Full	8.37	/	/	<=13	Pass
	2535	Outer_Full	8.49	/	/	<=13	Pass
	2565	Outer_Full	8.50	/	/	<=13	Pass

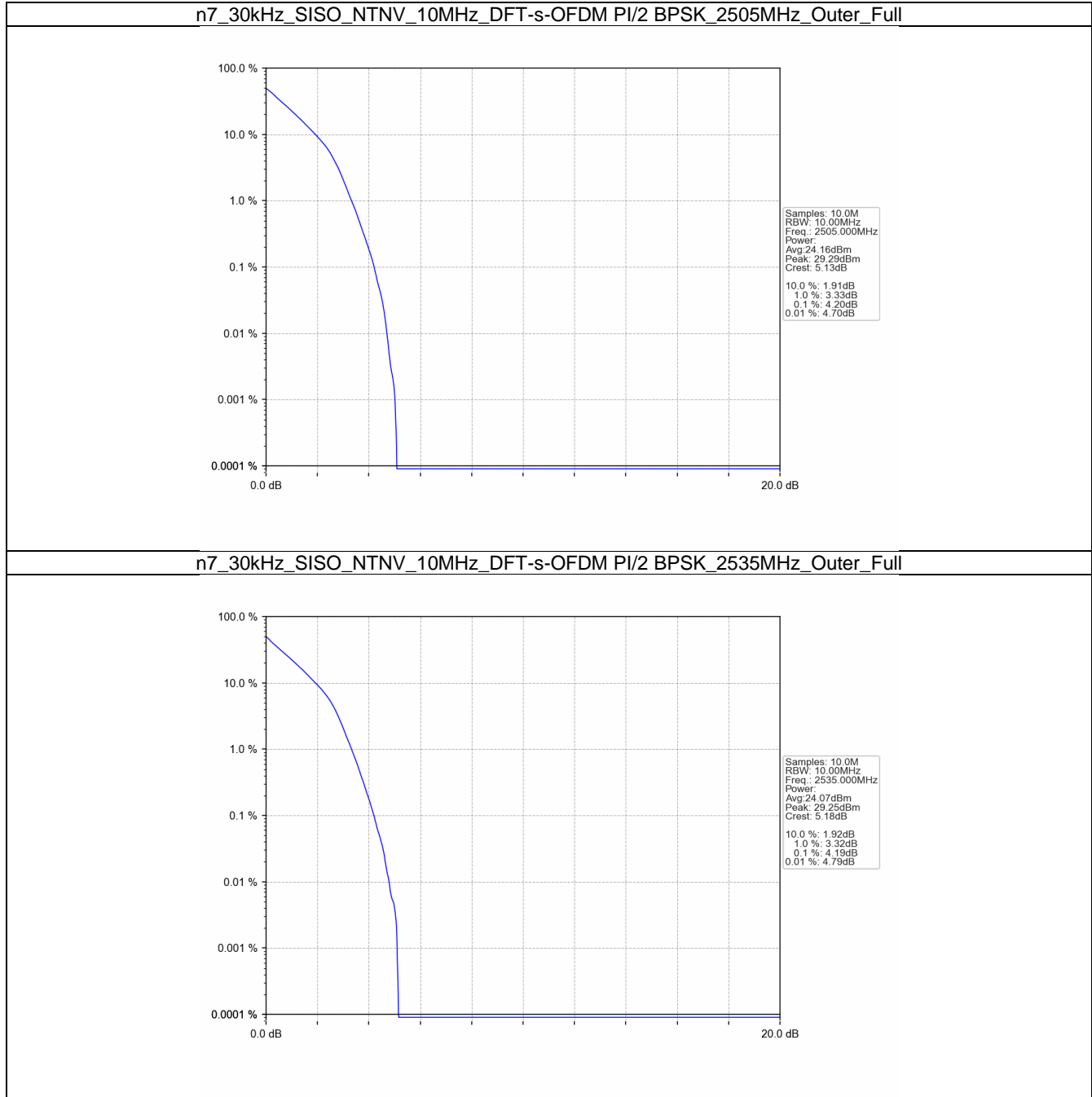


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5.9.2 Test Graph

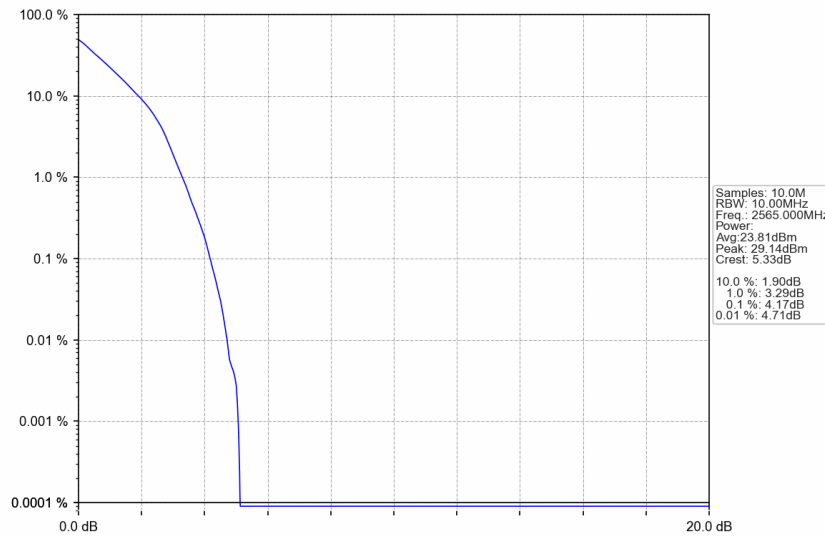


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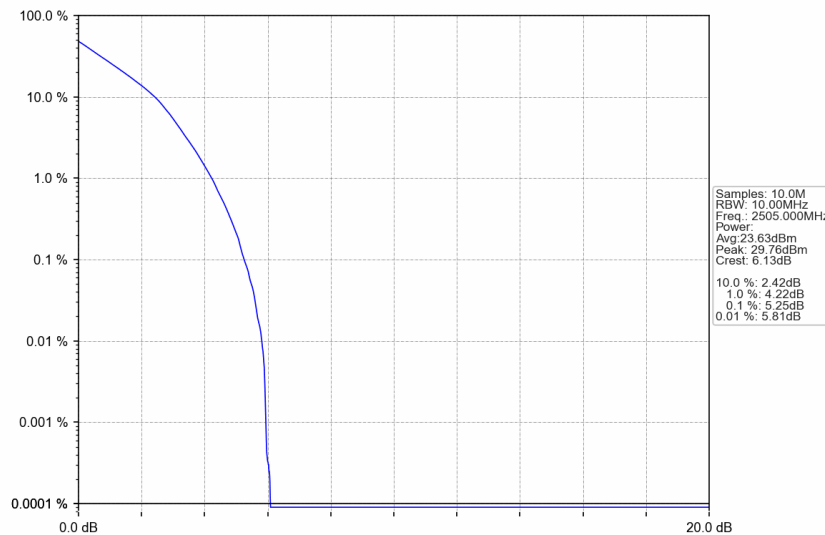
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n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2565MHz_Outer_Full



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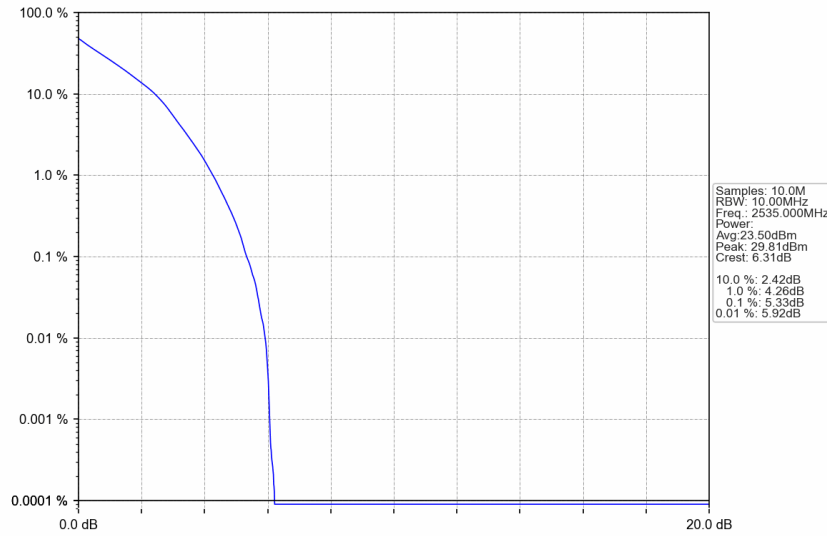
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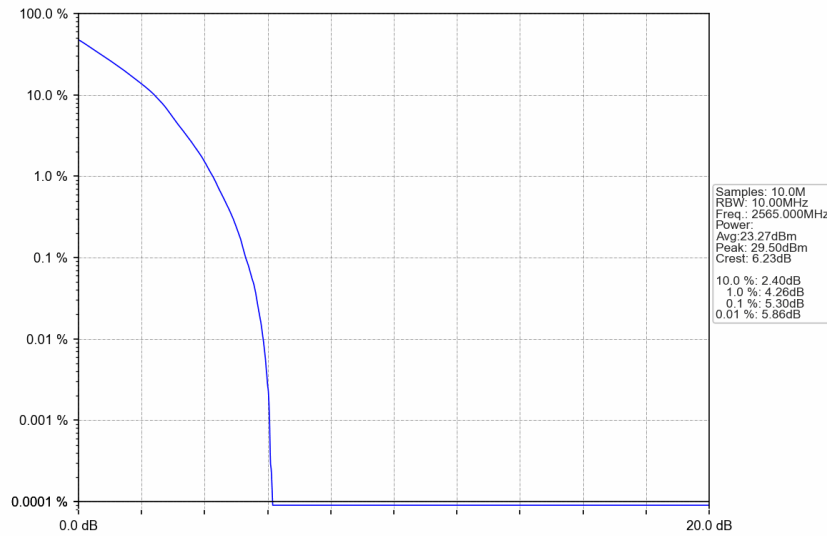
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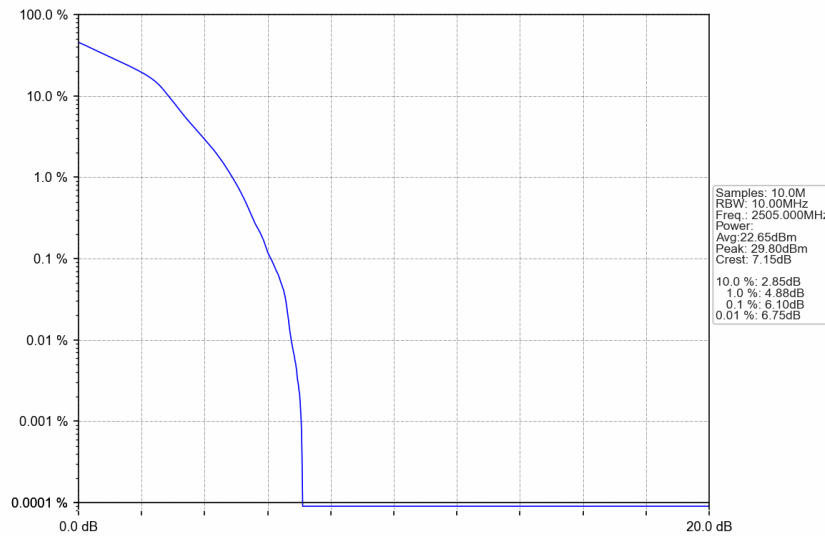
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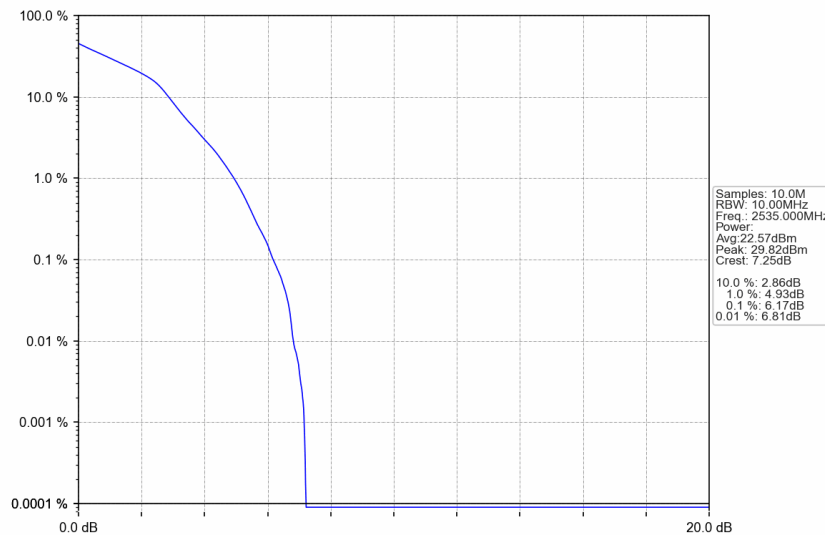
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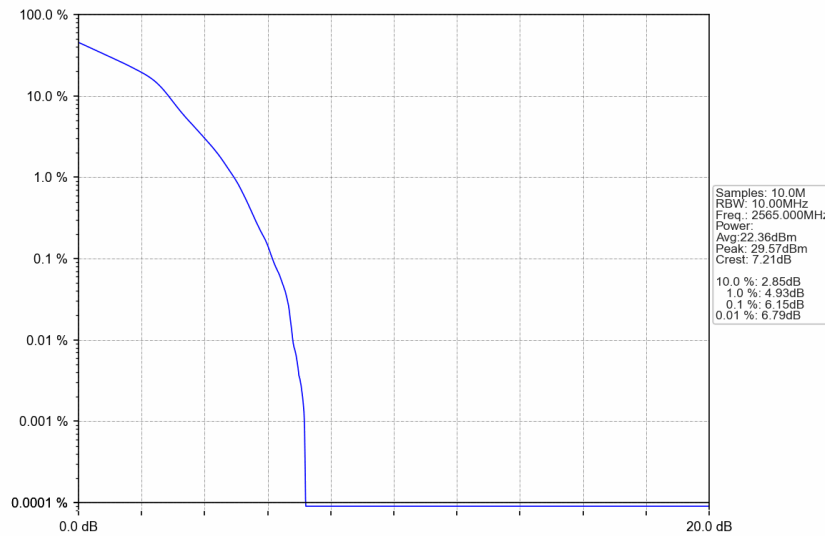
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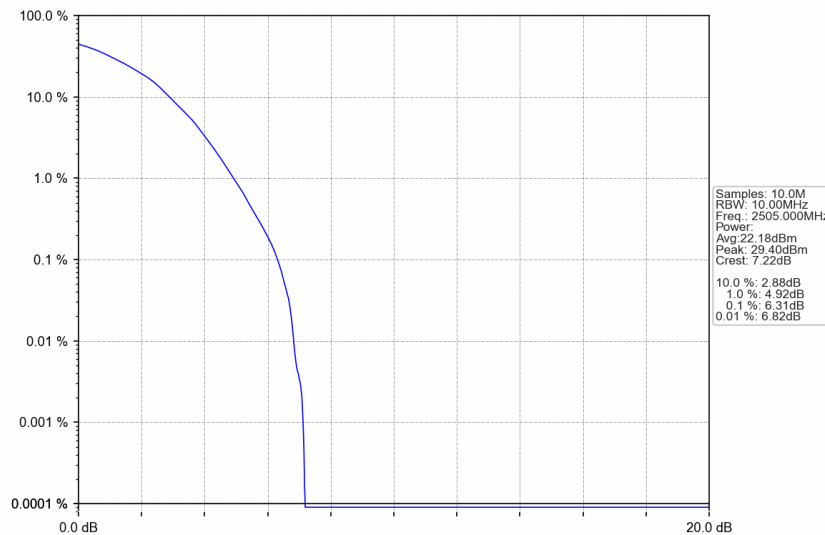
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n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_2565MHz_Outer_Full



n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_2505MHz_Outer_Full

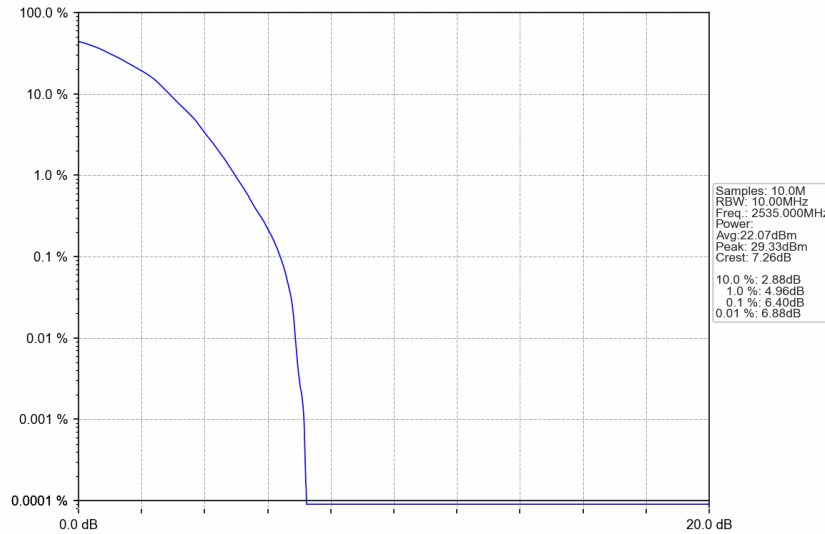


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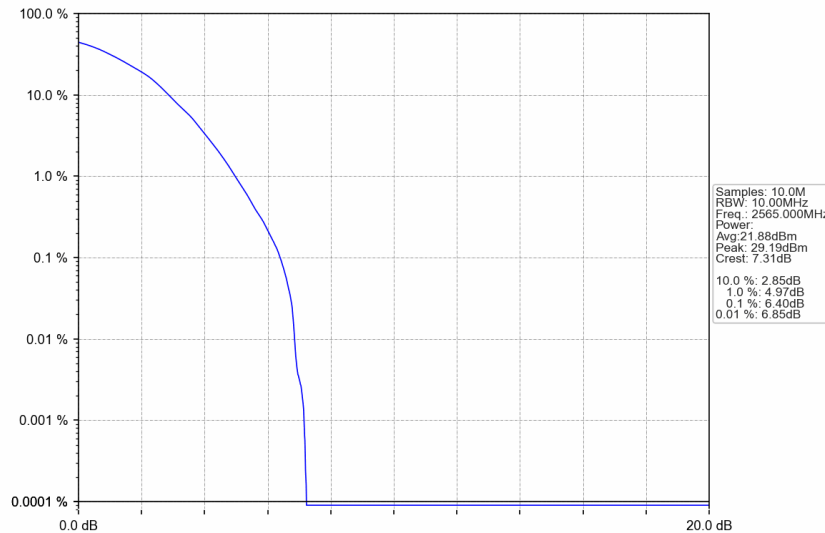
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n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_2535MHz_Outer_Full



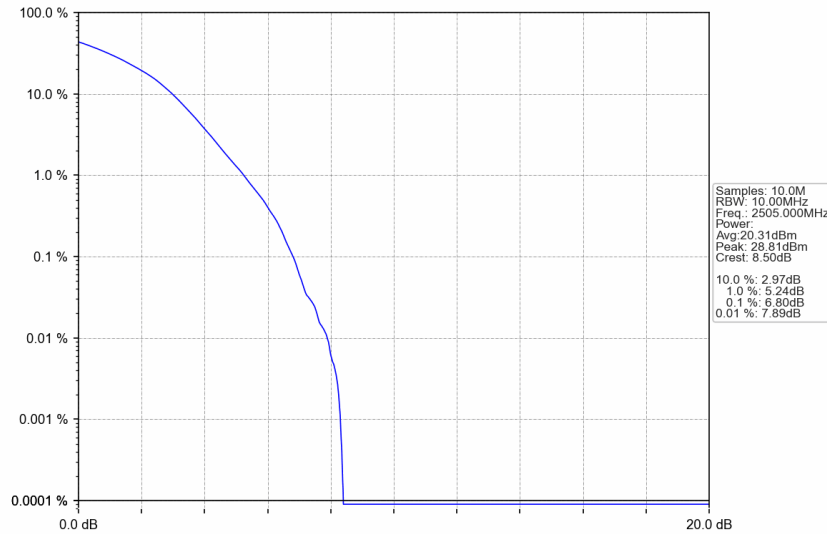
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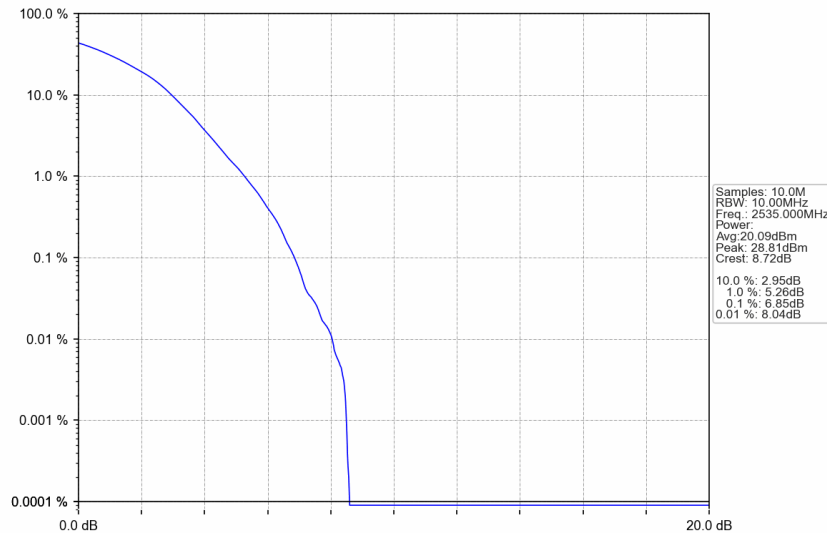
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n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_2505MHz_Outer_Full



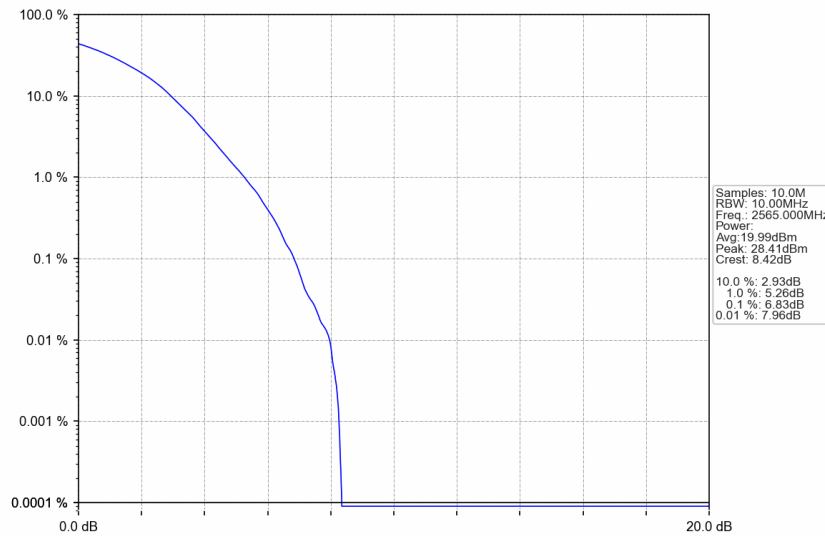
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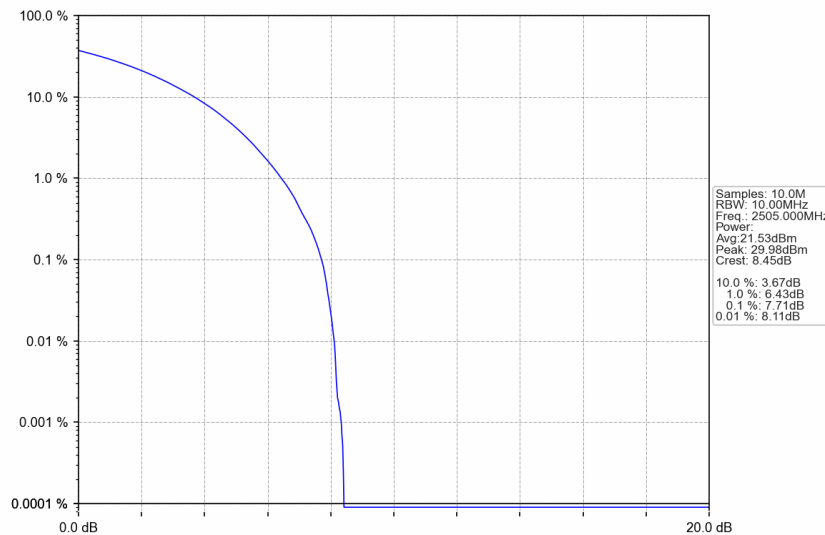
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n7_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_2565MHz_Outer_Full



n7_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2505MHz_Outer_Full

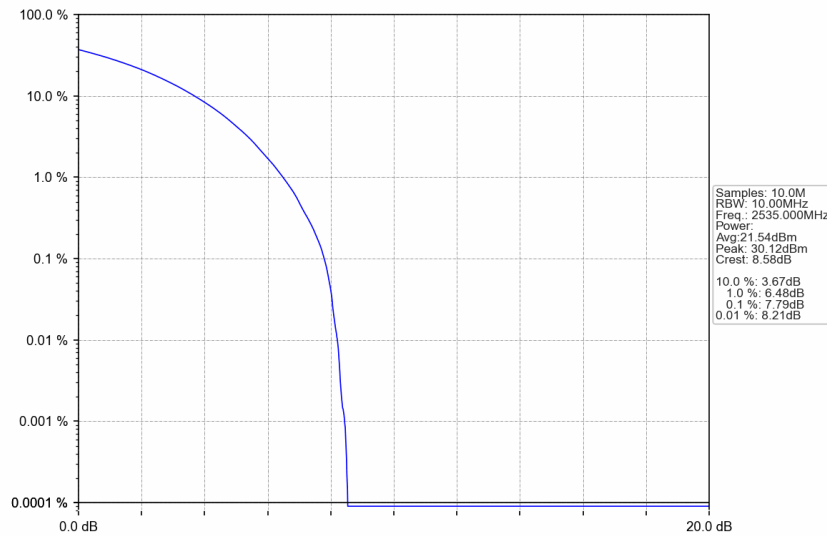


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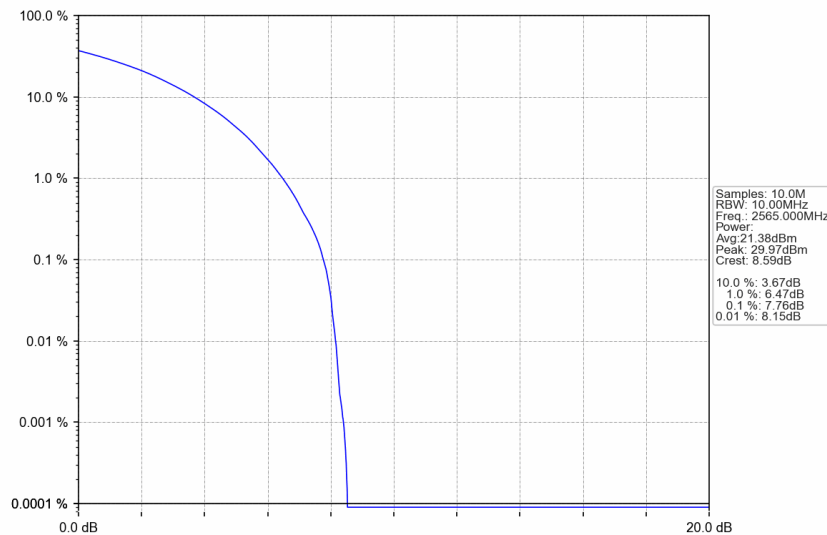
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n7_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2565MHz_Outer_Full



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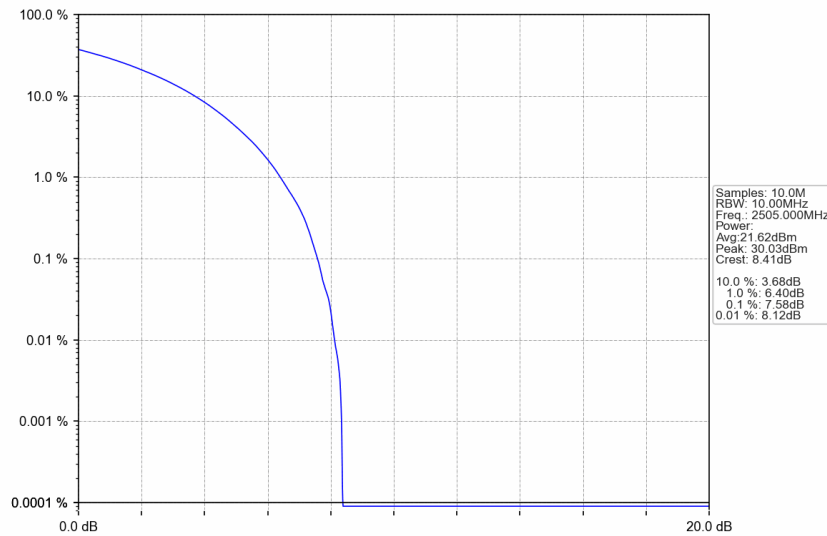
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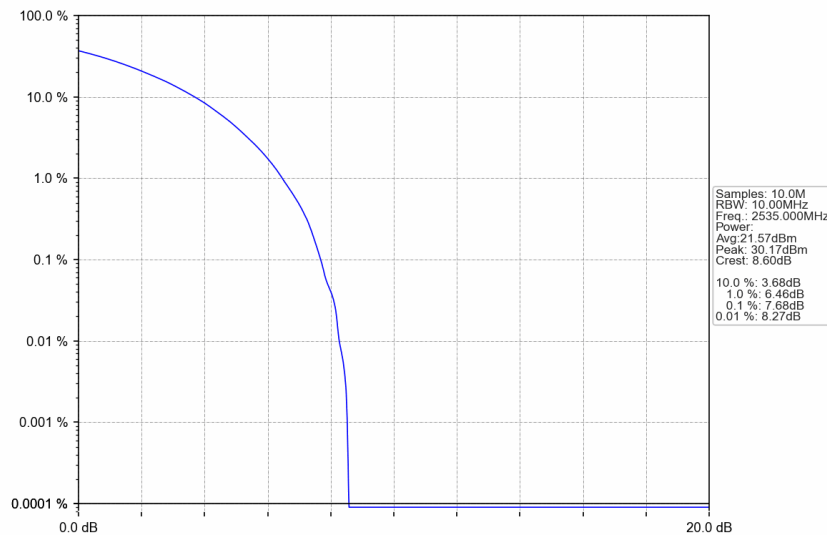
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n7_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_2505MHz_Outer_Full



n7_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_2535MHz_Outer_Full

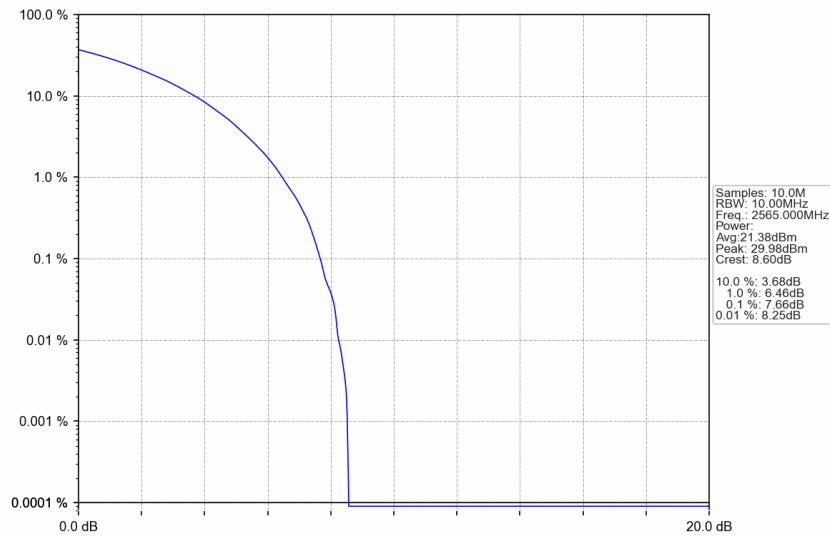


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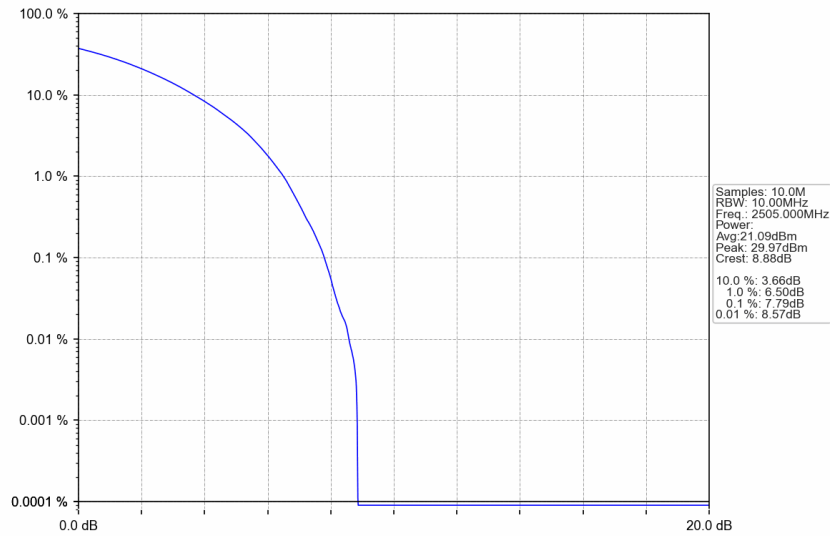
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n7_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_2505MHz_Outer_Full

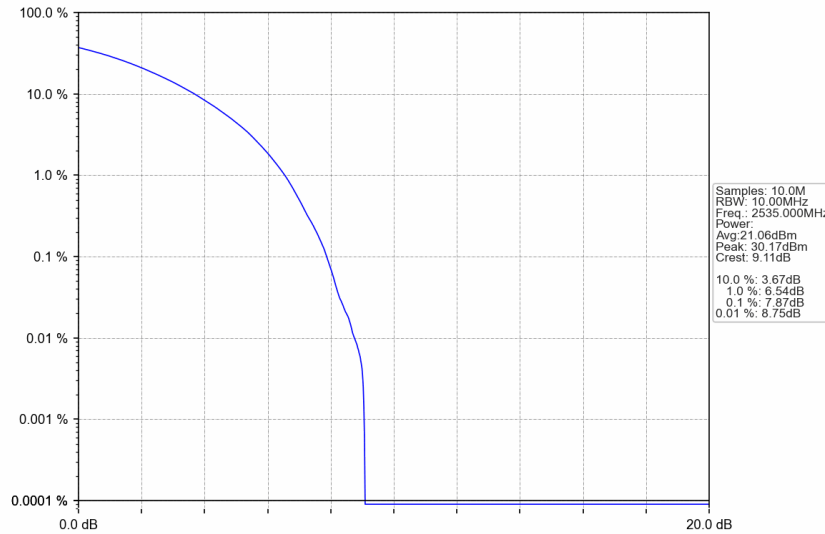


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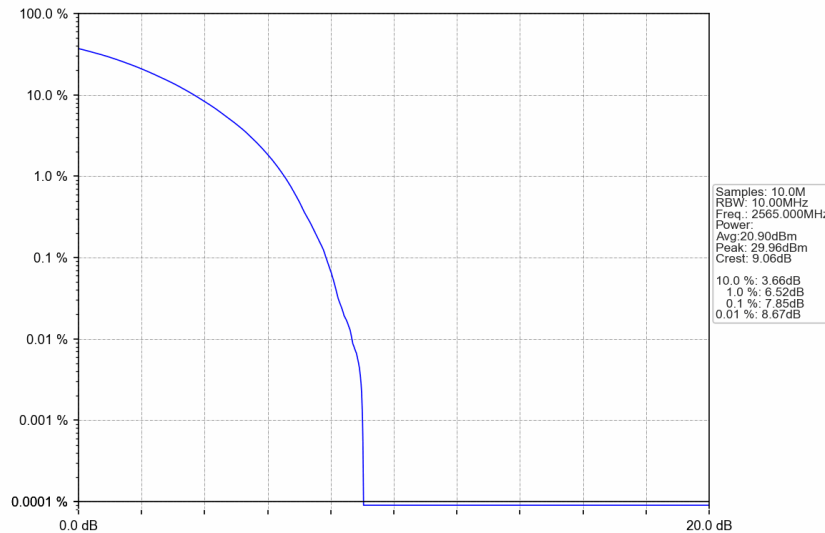
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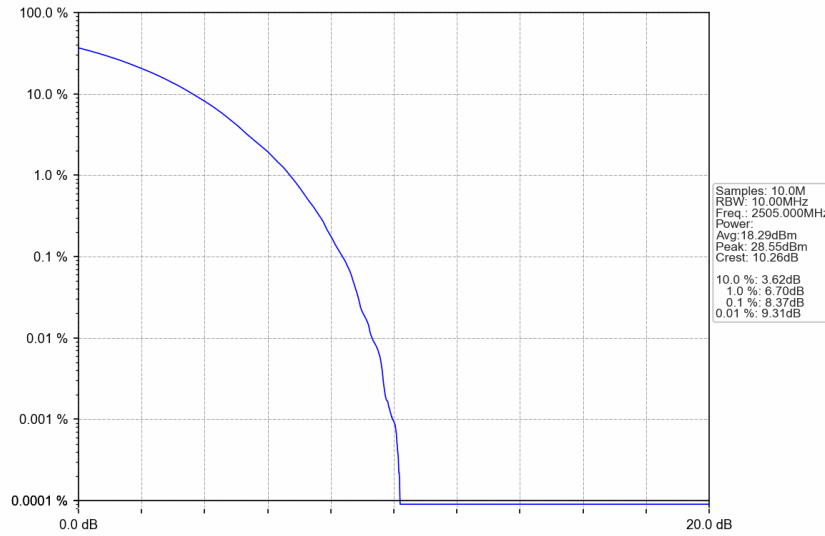


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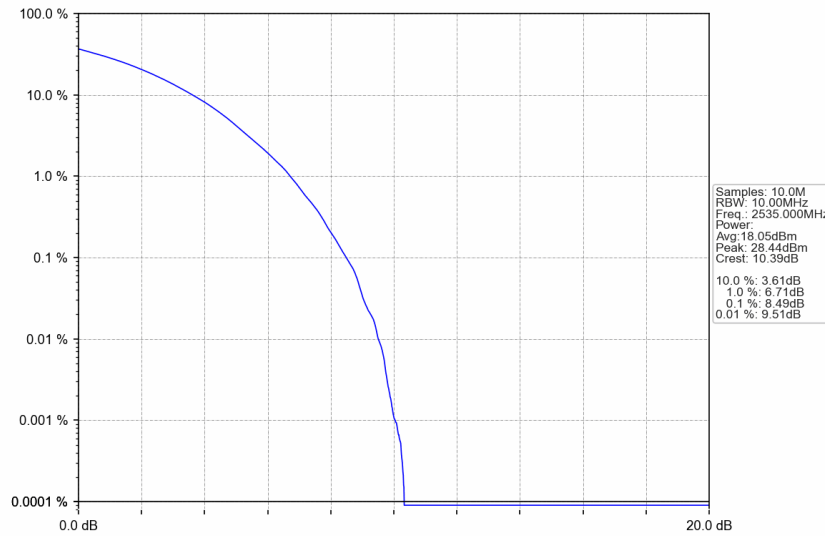
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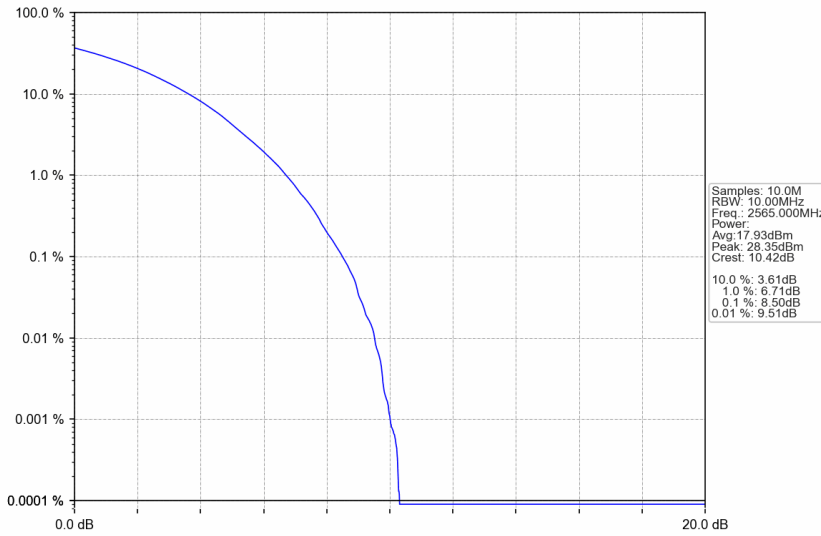
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5.10 30k_SISO_15MHz_NTNV

5.10.1 Test Result

5G NR n7 SCS=30kHz SISO 15MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2507.5	Outer_Full	4.15	/	/	<=13	Pass
	2535	Outer_Full	4.15	/	/	<=13	Pass
	2562.5	Outer_Full	4.15	/	/	<=13	Pass
DFT-s-OFDM QPSK	2507.5	Outer_Full	5.47	/	/	<=13	Pass
	2535	Outer_Full	5.43	/	/	<=13	Pass
	2562.5	Outer_Full	5.45	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2507.5	Outer_Full	6.13	/	/	<=13	Pass
	2535	Outer_Full	6.09	/	/	<=13	Pass
	2562.5	Outer_Full	6.07	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2507.5	Outer_Full	6.35	/	/	<=13	Pass
	2535	Outer_Full	6.37	/	/	<=13	Pass
	2562.5	Outer_Full	6.41	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2507.5	Outer_Full	6.51	/	/	<=13	Pass
	2535	Outer_Full	6.54	/	/	<=13	Pass
	2562.5	Outer_Full	6.53	/	/	<=13	Pass
CP-OFDM QPSK	2507.5	Outer_Full	7.75	/	/	<=13	Pass
	2535	Outer_Full	7.76	/	/	<=13	Pass
	2562.5	Outer_Full	7.82	/	/	<=13	Pass
CP-OFDM 16 QAM	2507.5	Outer_Full	7.61	/	/	<=13	Pass
	2535	Outer_Full	7.68	/	/	<=13	Pass
	2562.5	Outer_Full	7.73	/	/	<=13	Pass
CP-OFDM 64 QAM	2507.5	Outer_Full	7.94	/	/	<=13	Pass
	2535	Outer_Full	7.94	/	/	<=13	Pass
	2562.5	Outer_Full	7.95	/	/	<=13	Pass
CP-OFDM 256 QAM	2507.5	Outer_Full	8.60	/	/	<=13	Pass
	2535	Outer_Full	8.67	/	/	<=13	Pass
	2562.5	Outer_Full	8.65	/	/	<=13	Pass

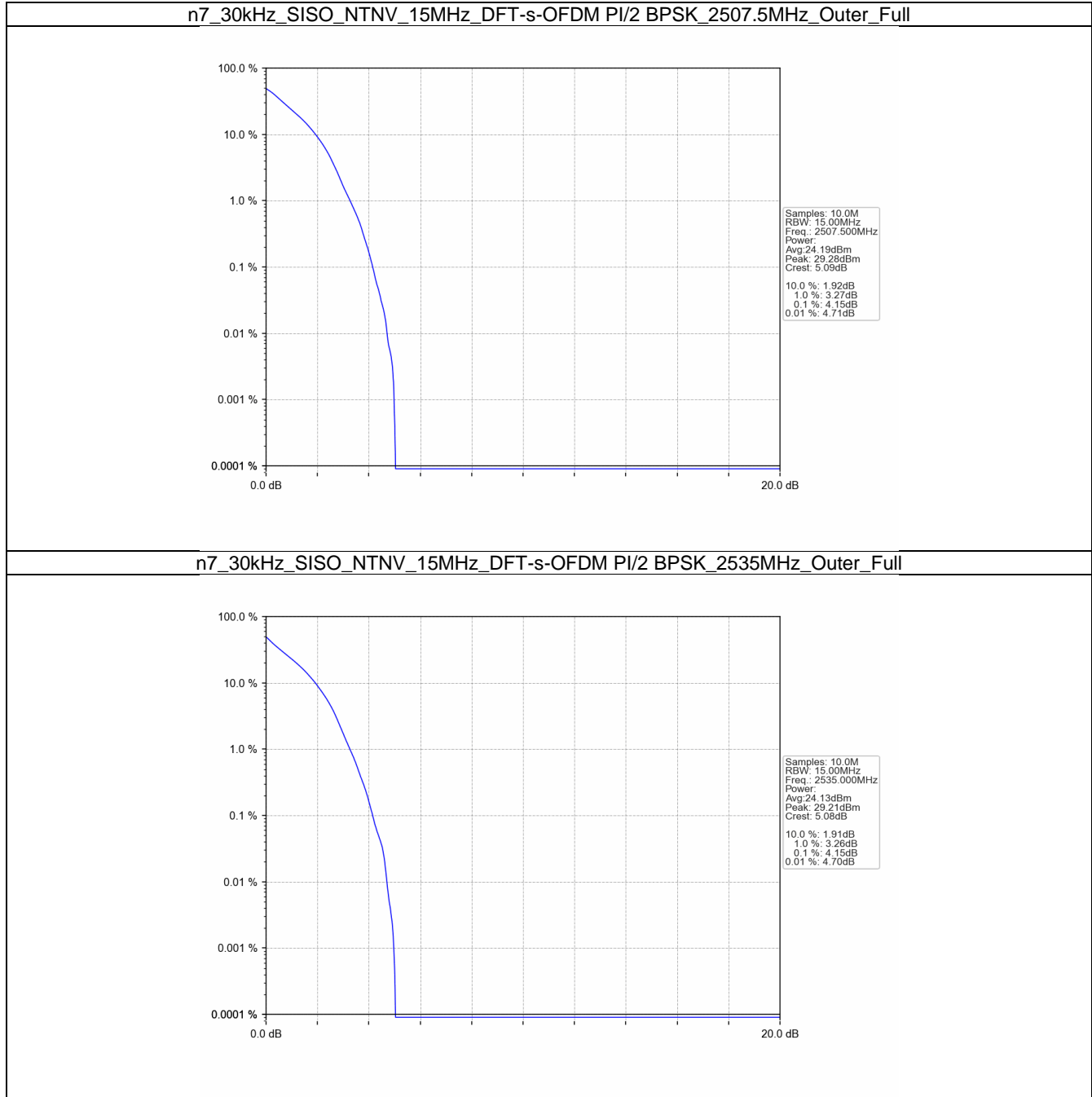


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5.10.2 Test Graph

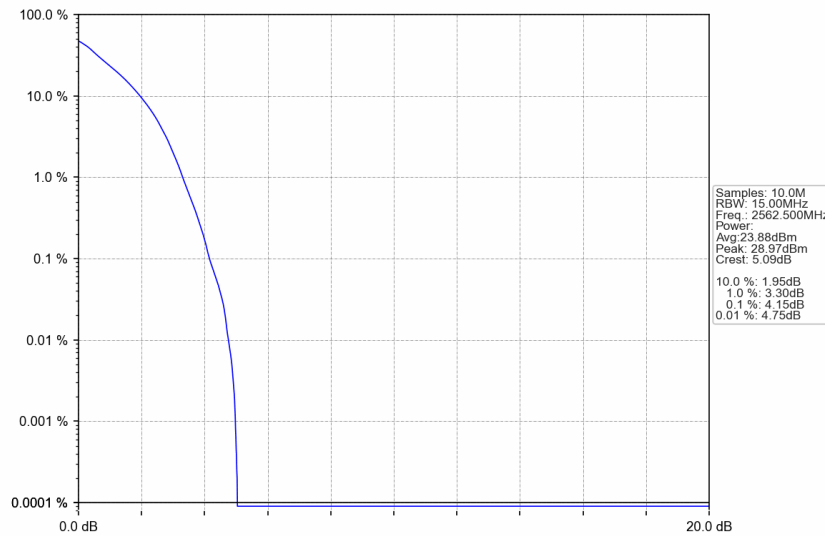


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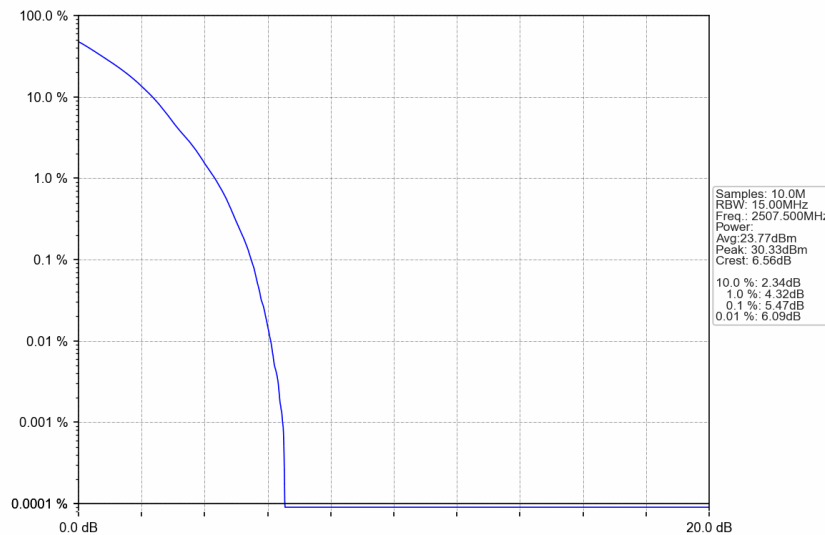
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n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_2562.5MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_2507.5MHz_Outer_Full

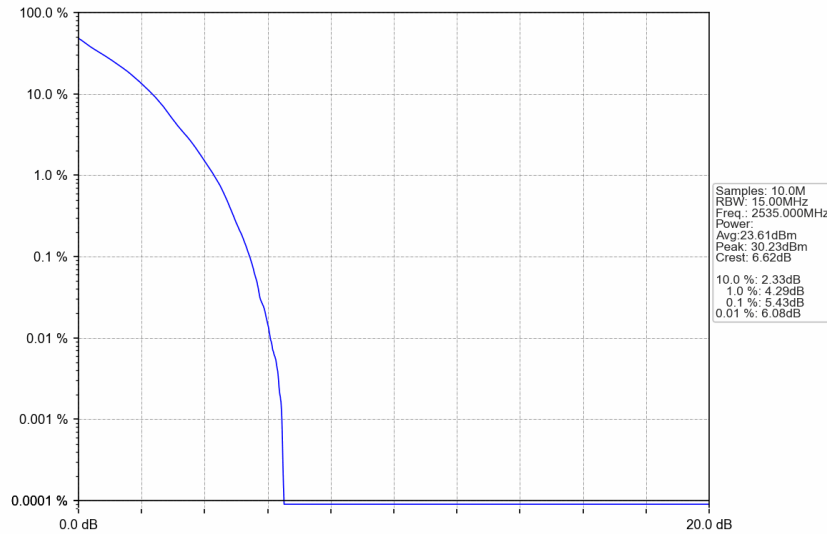


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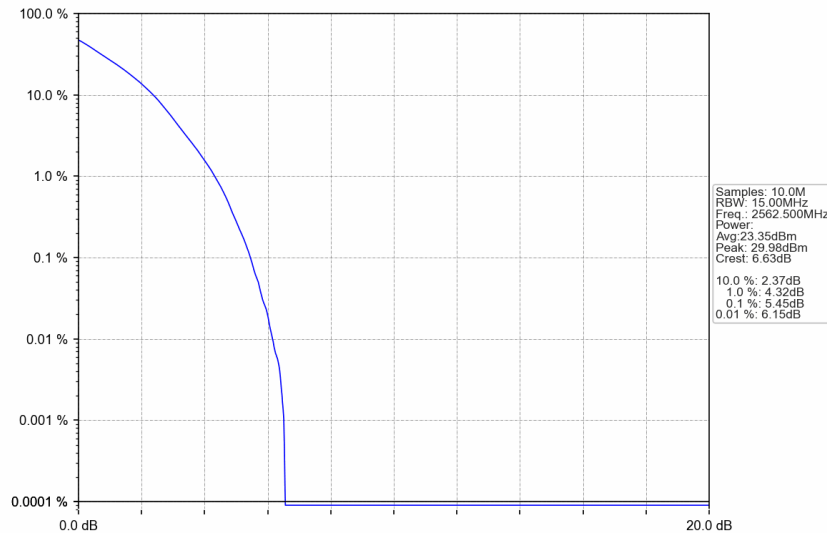
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n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_2562.5MHz_Outer_Full



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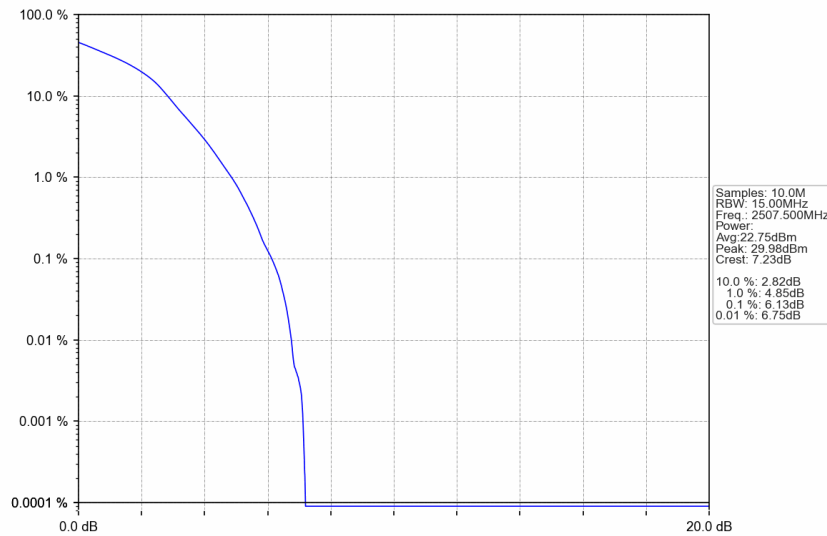
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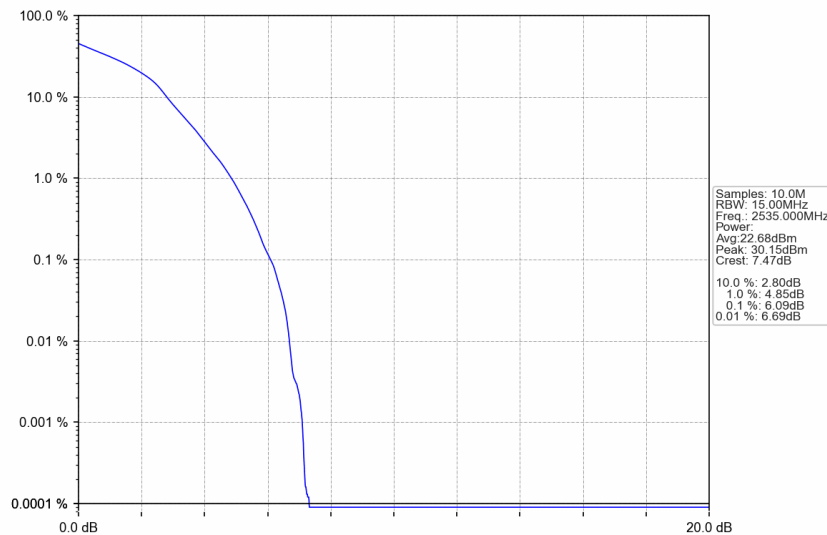
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n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_2507.5MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_2535MHz_Outer_Full

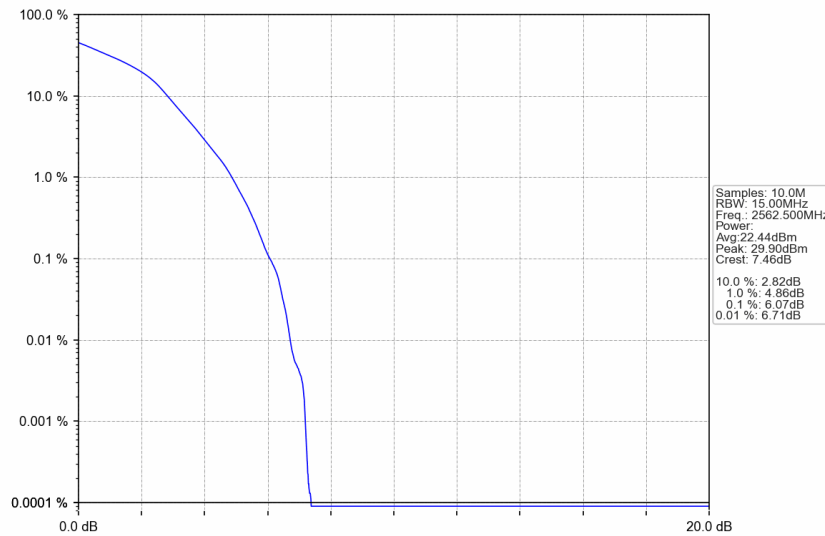


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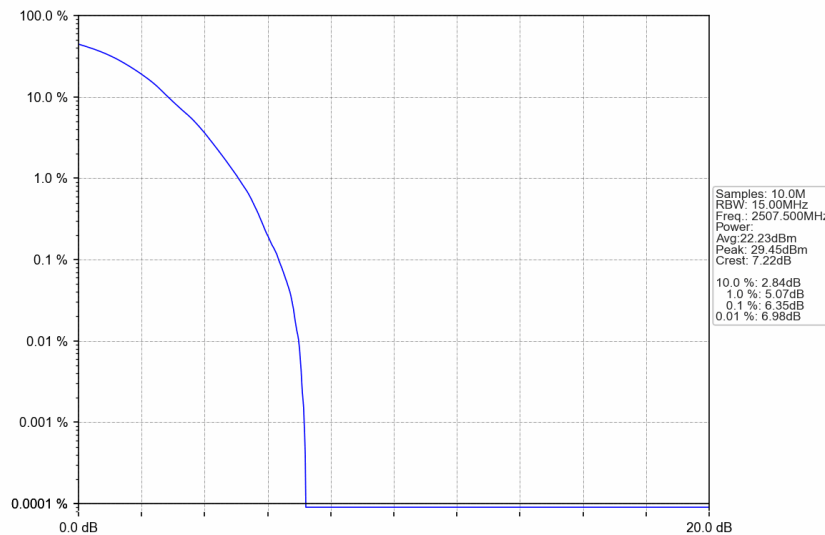
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n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_2562.5MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_2507.5MHz_Outer_Full

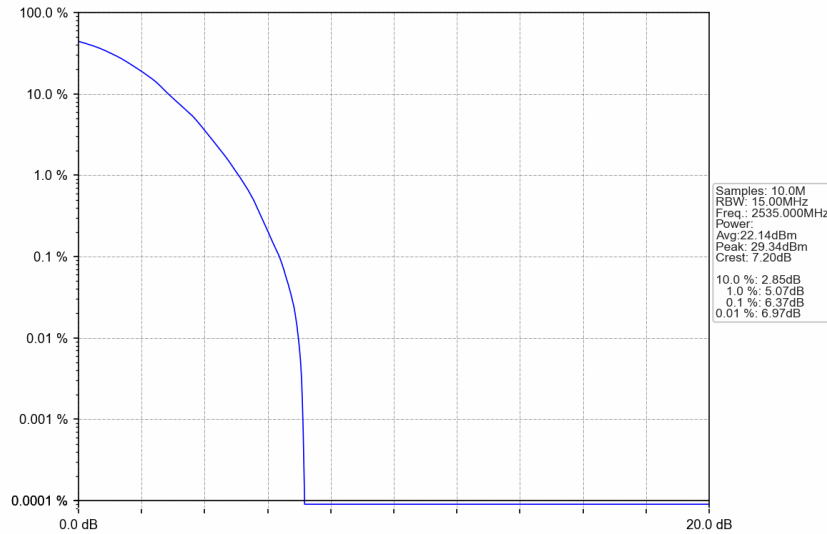


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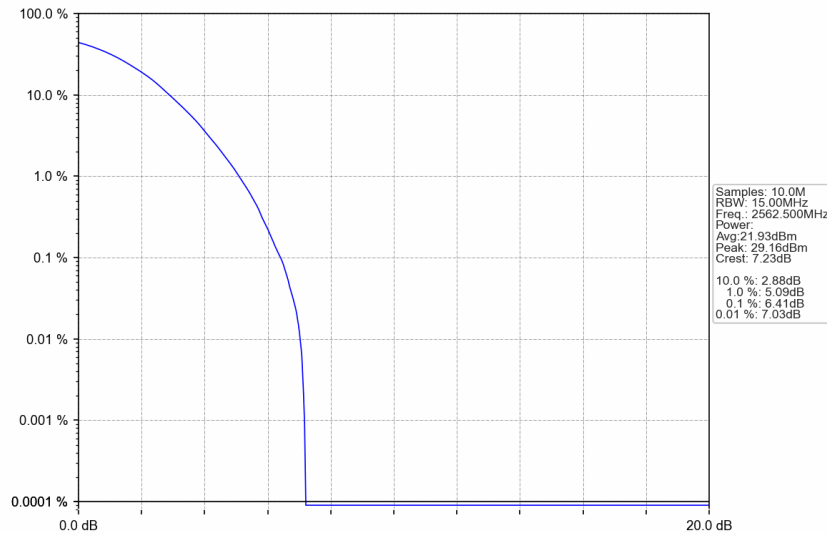
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n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_2535MHz_Outer_Full



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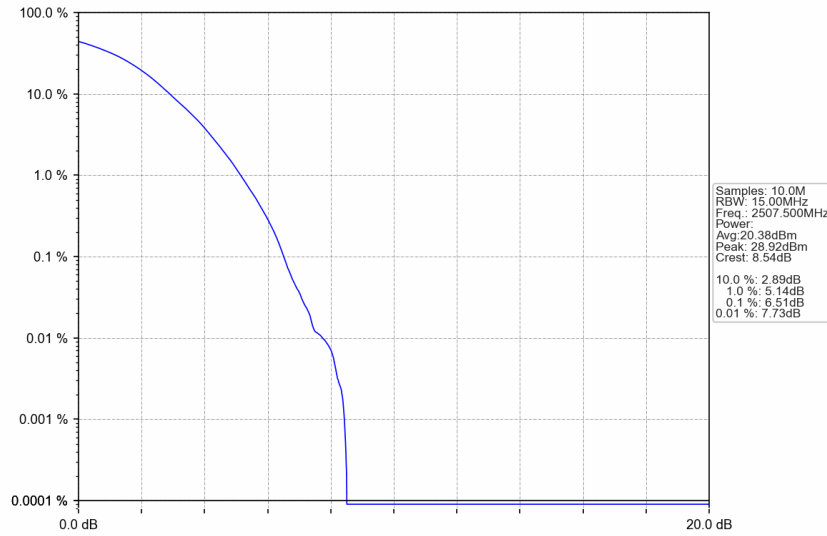
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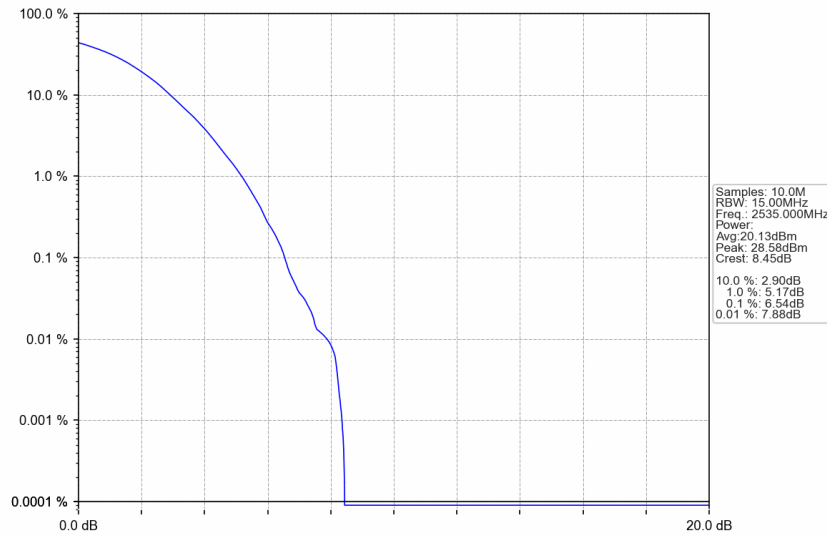
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n7_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_2535MHz_Outer_Full

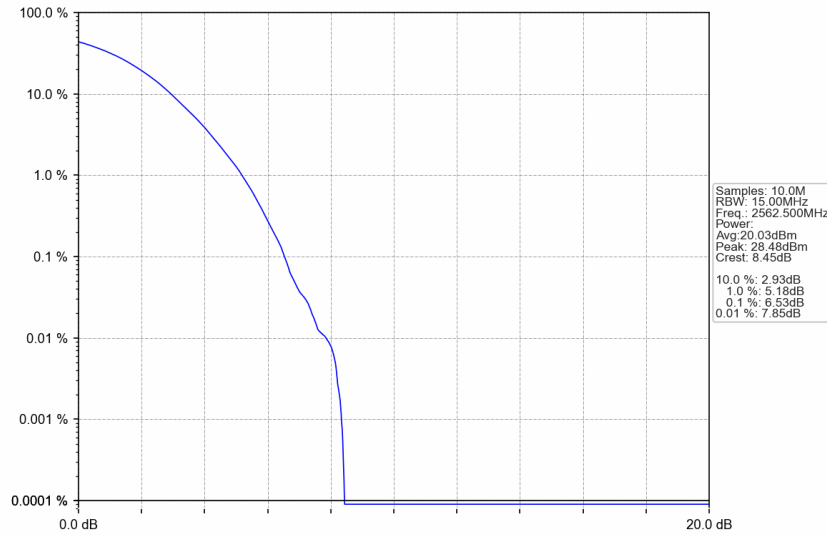


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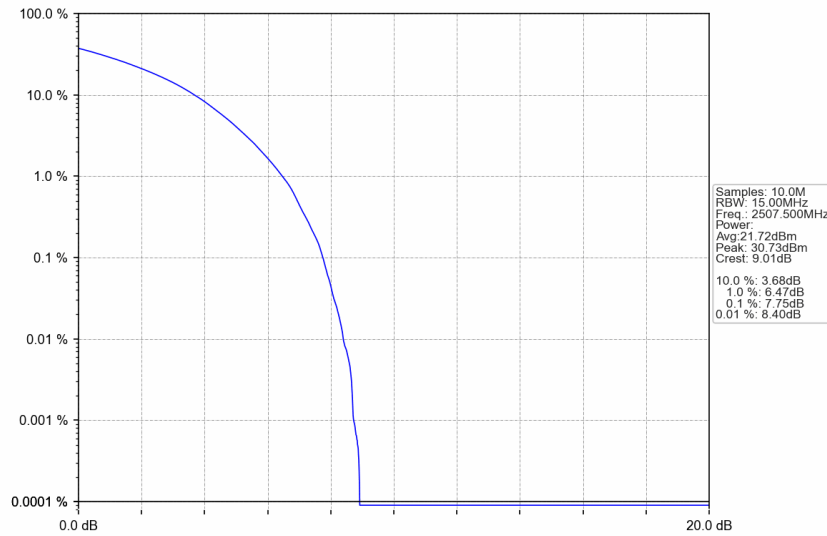
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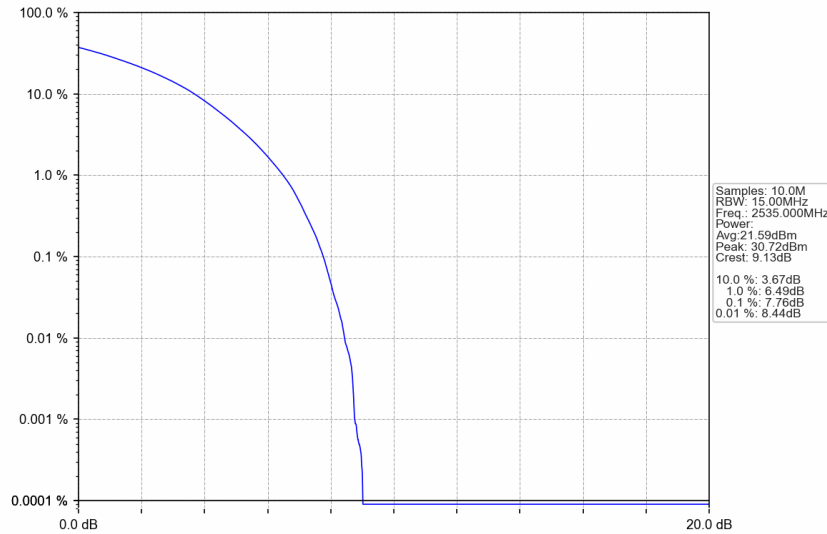
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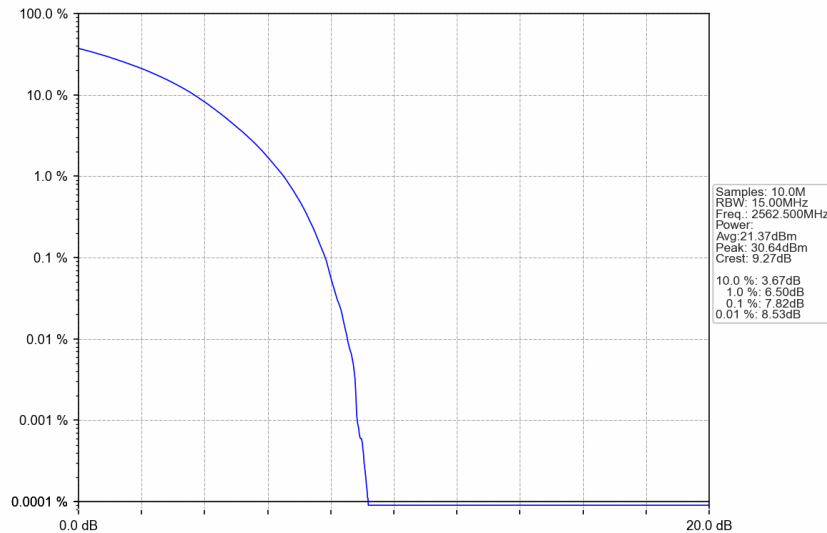
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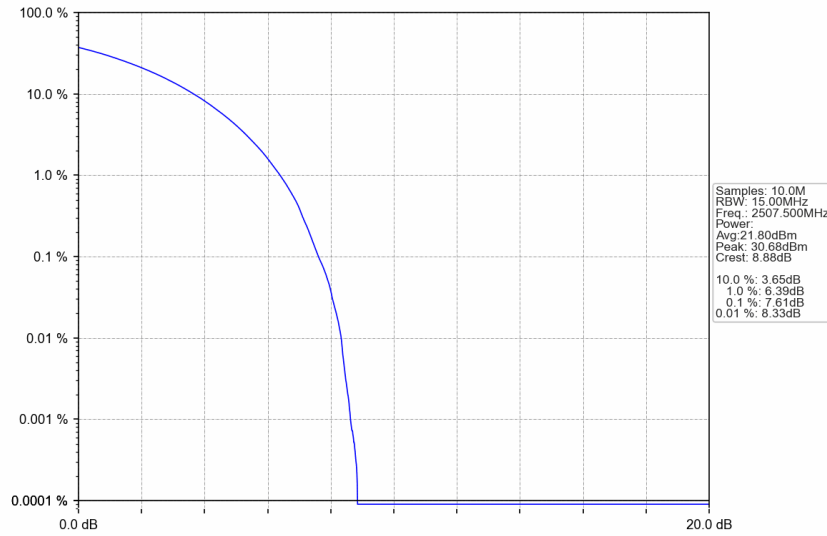
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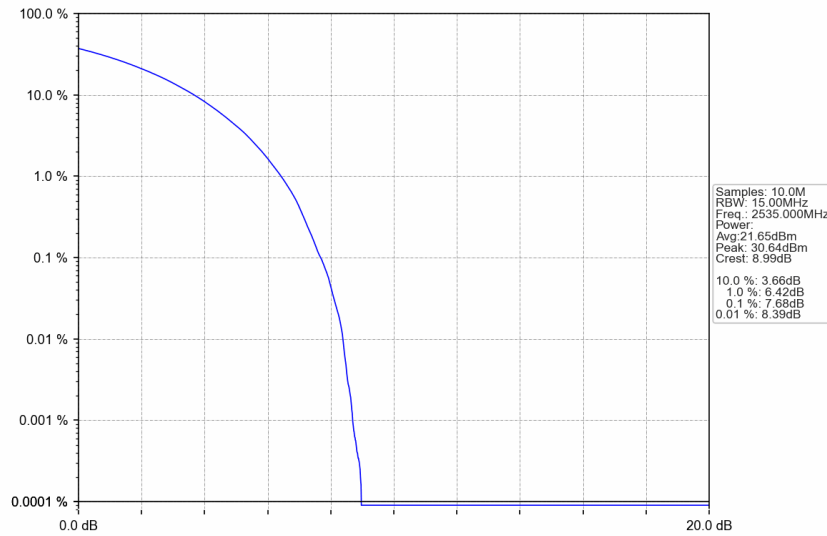
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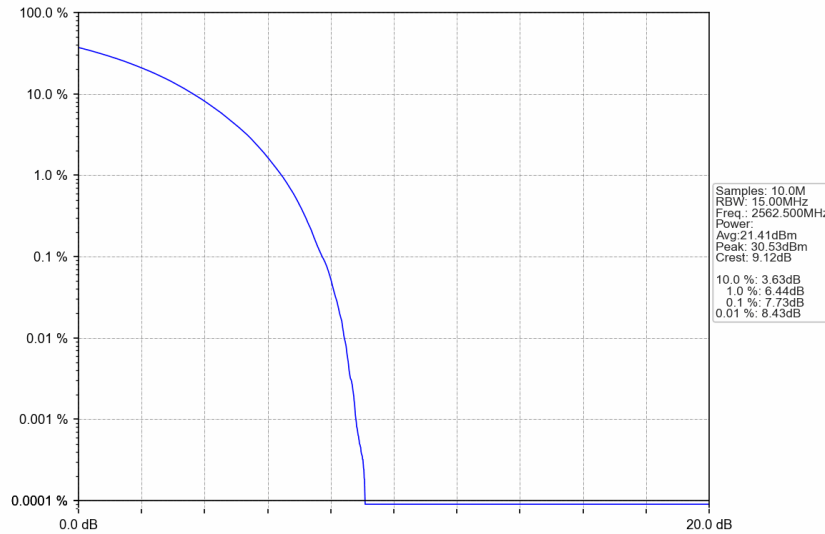
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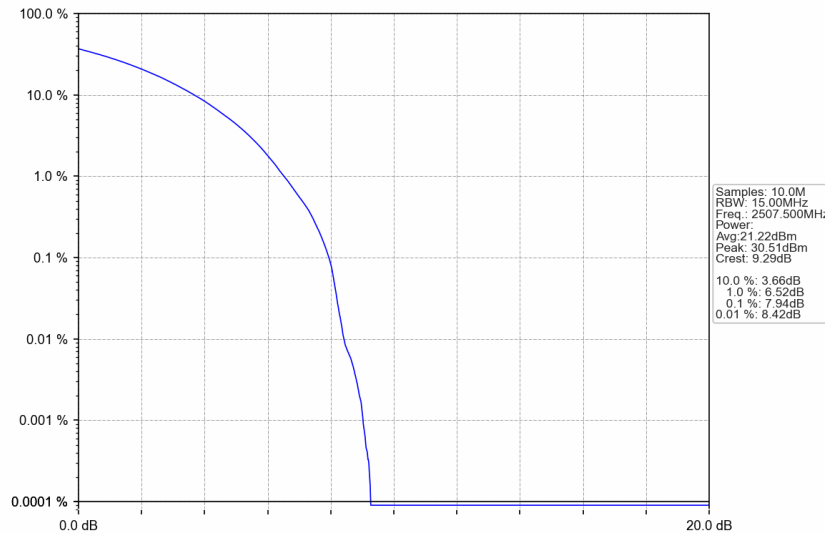
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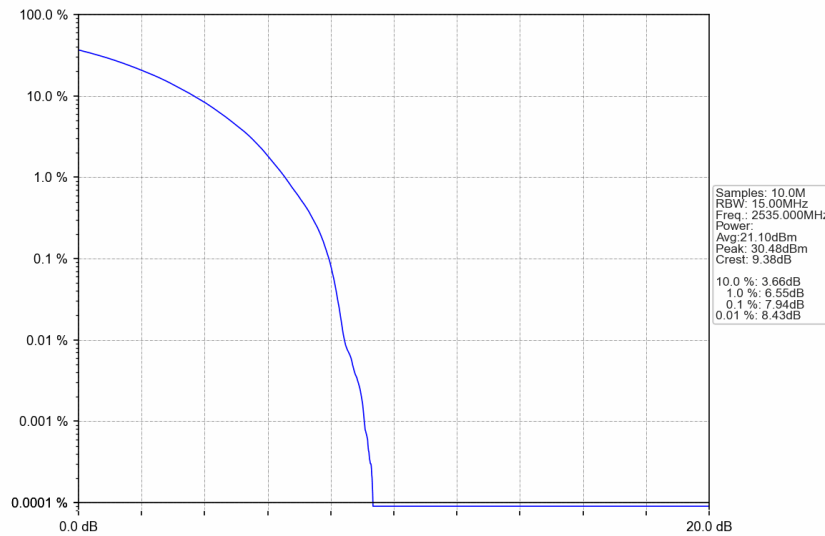
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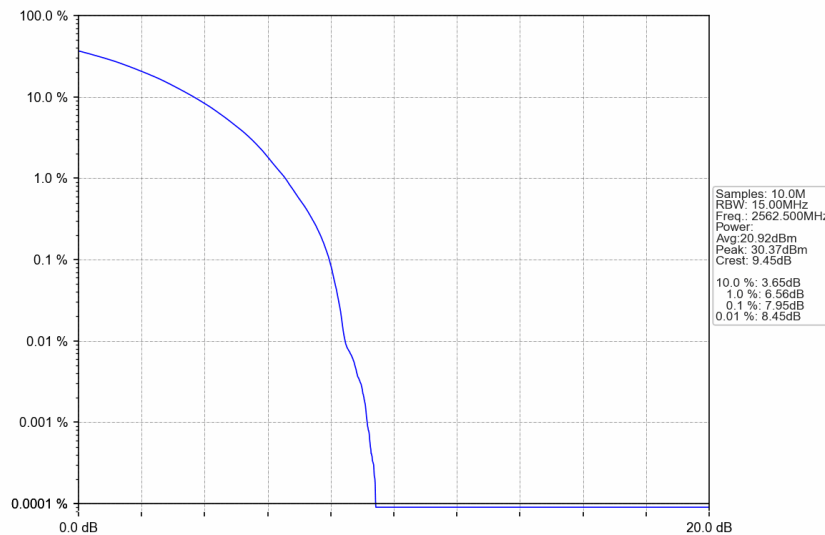
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n7_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_2562.5MHz_Outer_Full

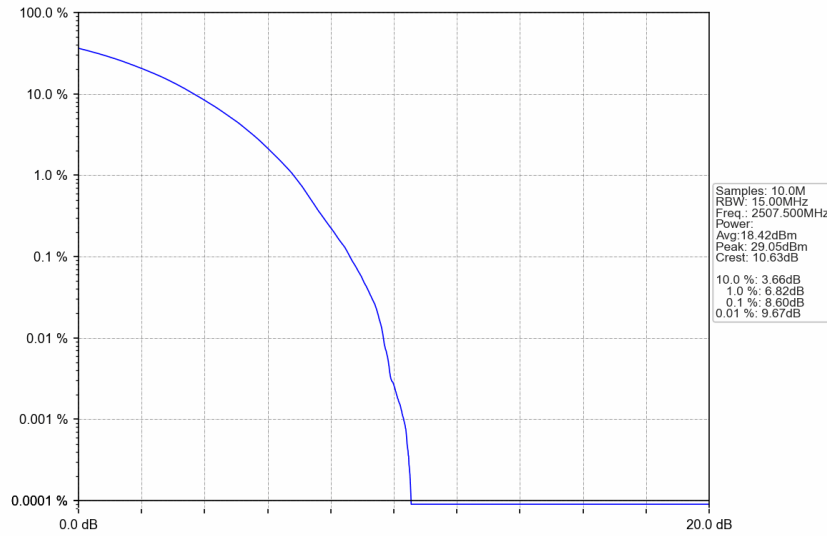


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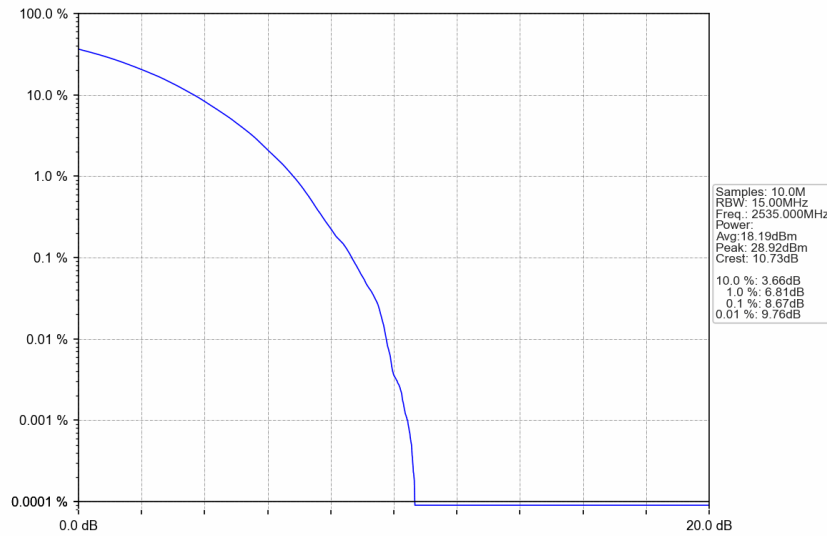
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n7_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_2507.5MHz_Outer_Full



n7_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_2535MHz_Outer_Full



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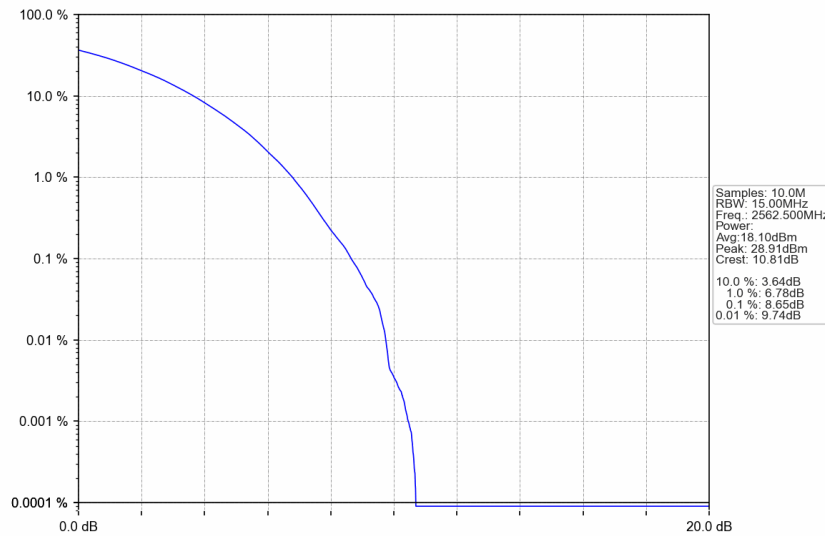
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n7_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_2562.5MHz_Outer_Full



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5.11 30k_SISO_20MHz_NTNV

5.11.1 Test Result

5G NR n7 SCS=30kHz SISO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2510	Outer_Full	4.23	/	/	<=13	Pass
	2535	Outer_Full	4.16	/	/	<=13	Pass
	2560	Outer_Full	4.27	/	/	<=13	Pass
DFT-s-OFDM QPSK	2510	Outer_Full	5.22	/	/	<=13	Pass
	2535	Outer_Full	5.20	/	/	<=13	Pass
	2560	Outer_Full	5.30	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2510	Outer_Full	6.06	/	/	<=13	Pass
	2535	Outer_Full	6.06	/	/	<=13	Pass
	2560	Outer_Full	6.11	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2510	Outer_Full	6.27	/	/	<=13	Pass
	2535	Outer_Full	6.26	/	/	<=13	Pass
	2560	Outer_Full	6.32	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2510	Outer_Full	6.54	/	/	<=13	Pass
	2535	Outer_Full	6.53	/	/	<=13	Pass
	2560	Outer_Full	6.54	/	/	<=13	Pass
CP-OFDM QPSK	2510	Outer_Full	7.78	/	/	<=13	Pass
	2535	Outer_Full	7.77	/	/	<=13	Pass
	2560	Outer_Full	7.82	/	/	<=13	Pass
CP-OFDM 16 QAM	2510	Outer_Full	7.69	/	/	<=13	Pass
	2535	Outer_Full	7.72	/	/	<=13	Pass
	2560	Outer_Full	7.78	/	/	<=13	Pass
CP-OFDM 64 QAM	2510	Outer_Full	7.86	/	/	<=13	Pass
	2535	Outer_Full	7.92	/	/	<=13	Pass
	2560	Outer_Full	7.93	/	/	<=13	Pass
CP-OFDM 256 QAM	2510	Outer_Full	8.73	/	/	<=13	Pass
	2535	Outer_Full	8.73	/	/	<=13	Pass
	2560	Outer_Full	8.71	/	/	<=13	Pass

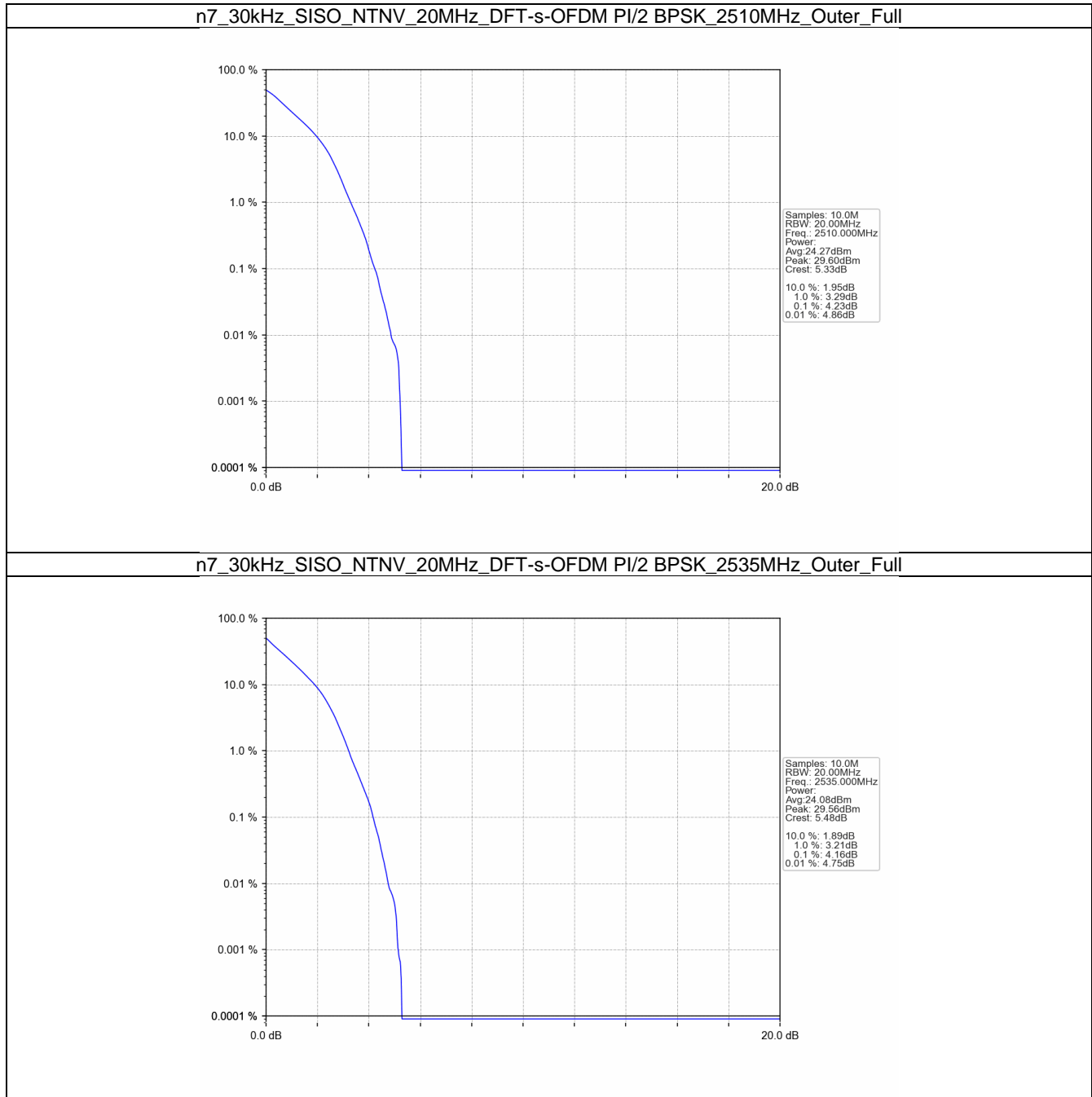


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5.11.2 Test Graph

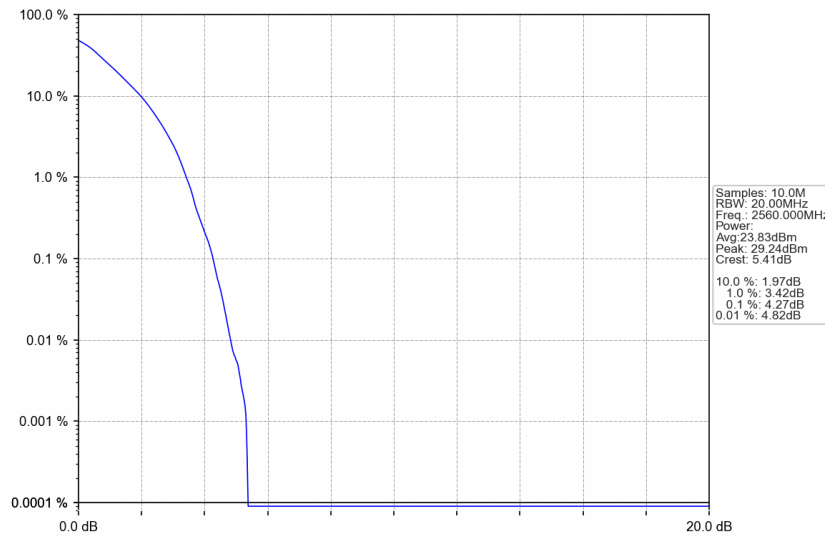


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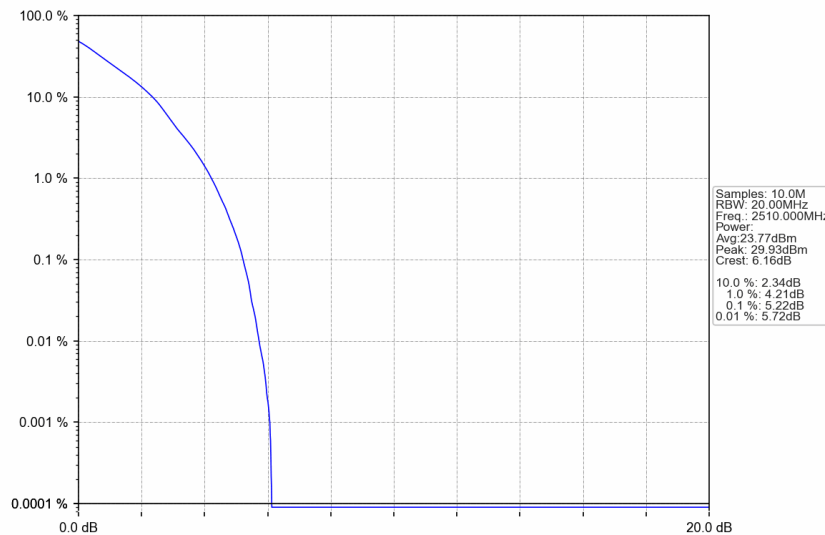
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n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2560MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2510MHz_Outer_Full

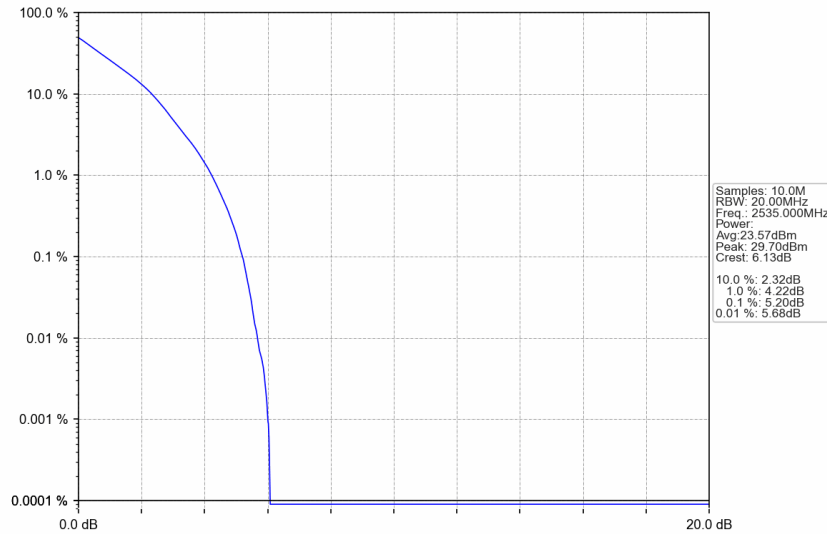


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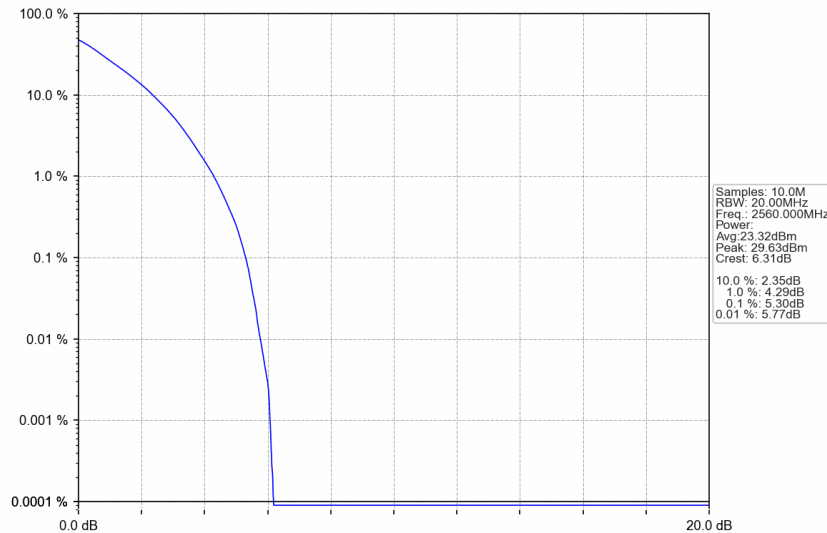
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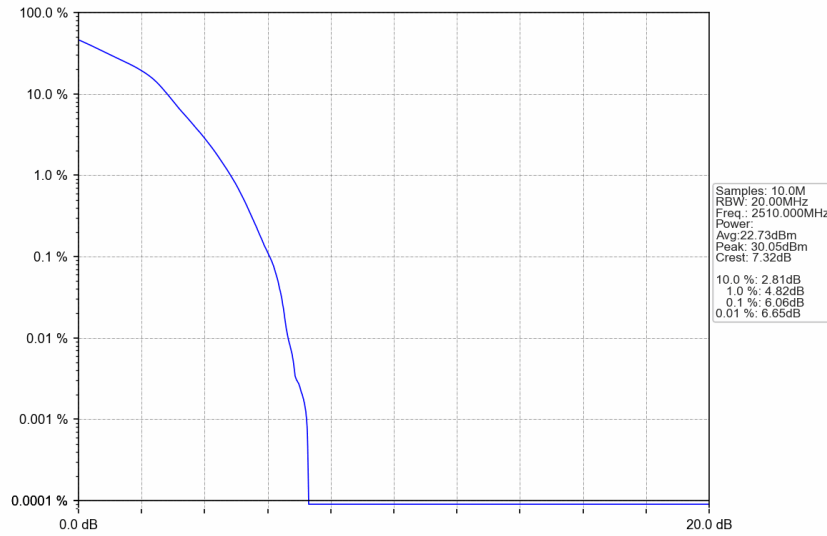
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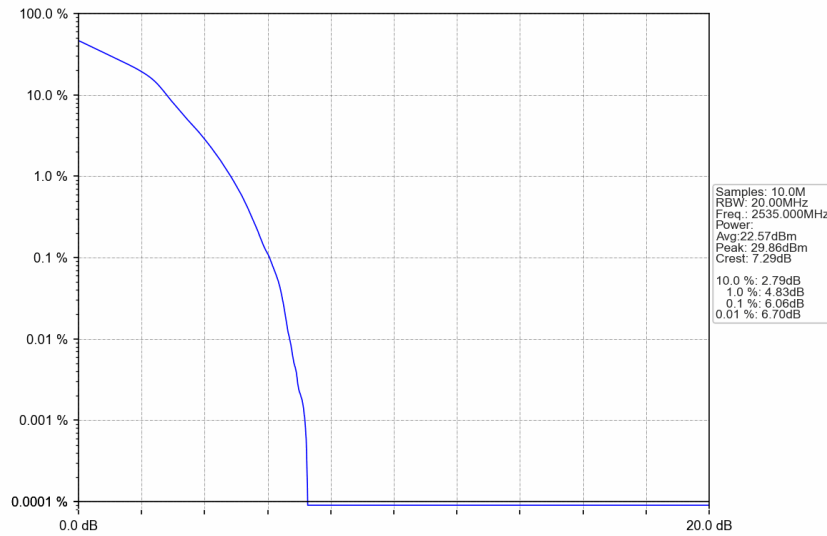
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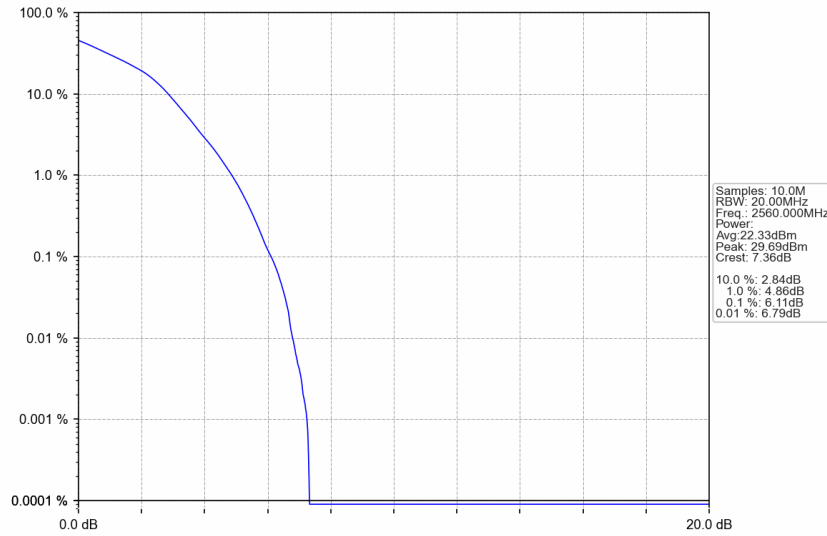


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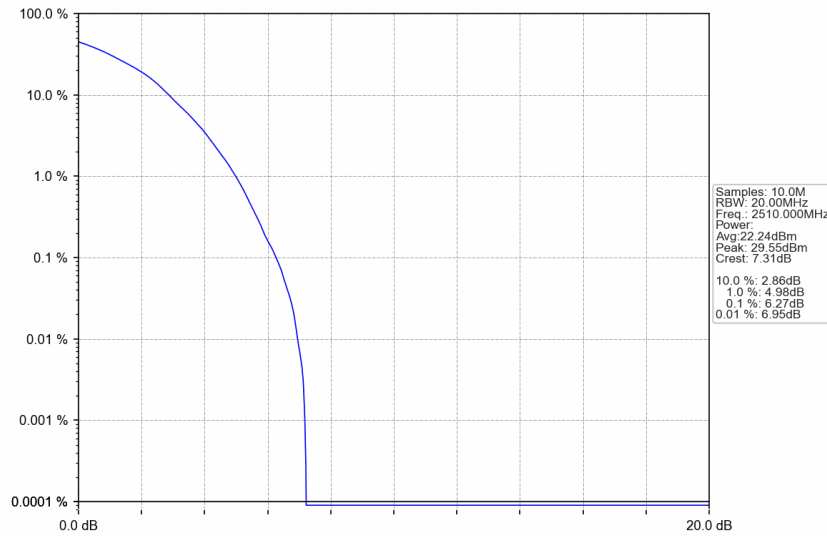
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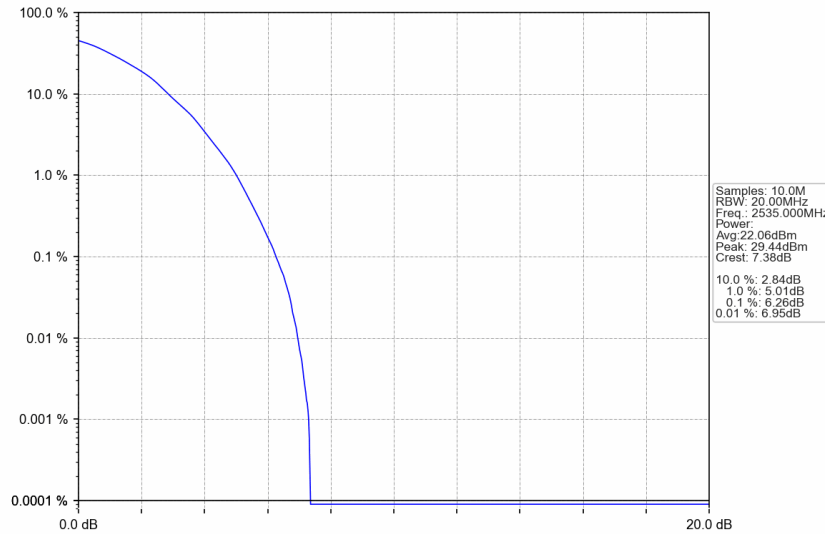


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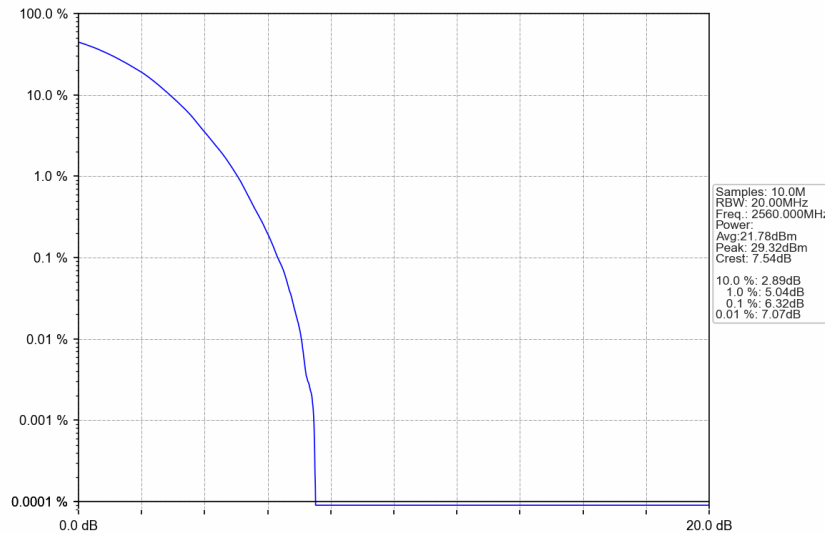
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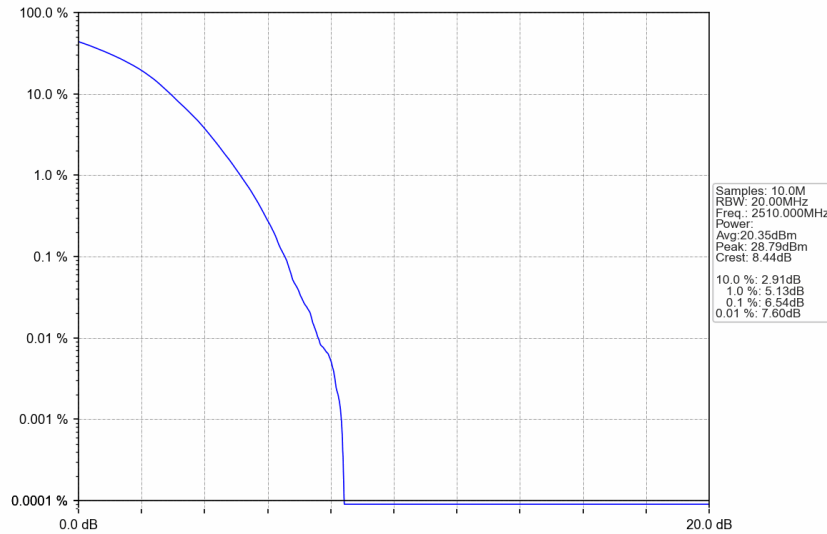
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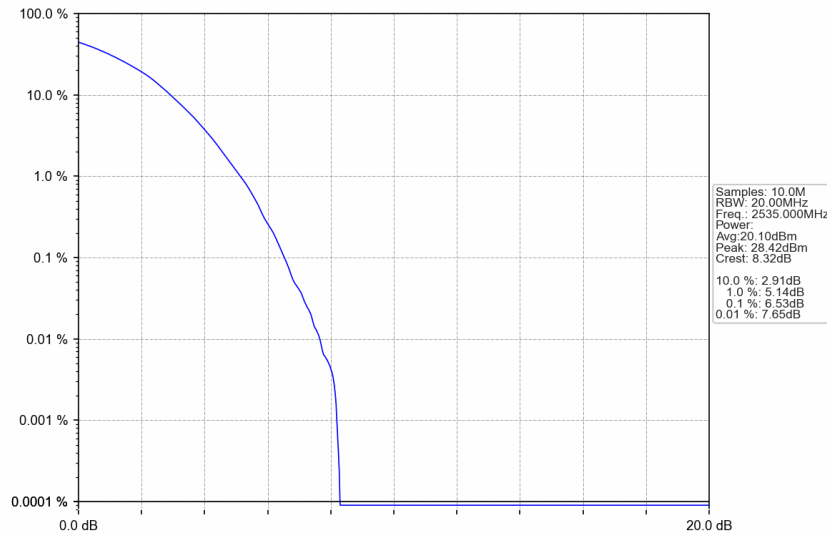
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n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_2535MHz_Outer_Full

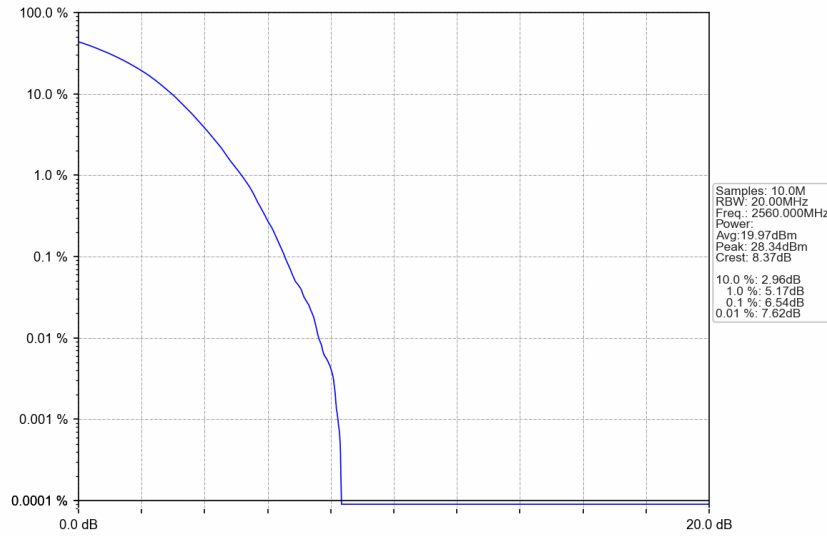


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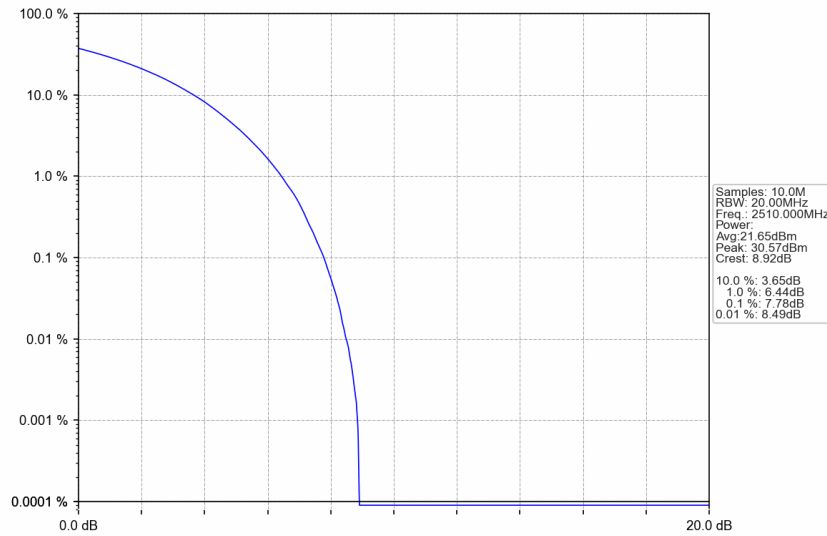
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n7_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_2560MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2510MHz_Outer_Full



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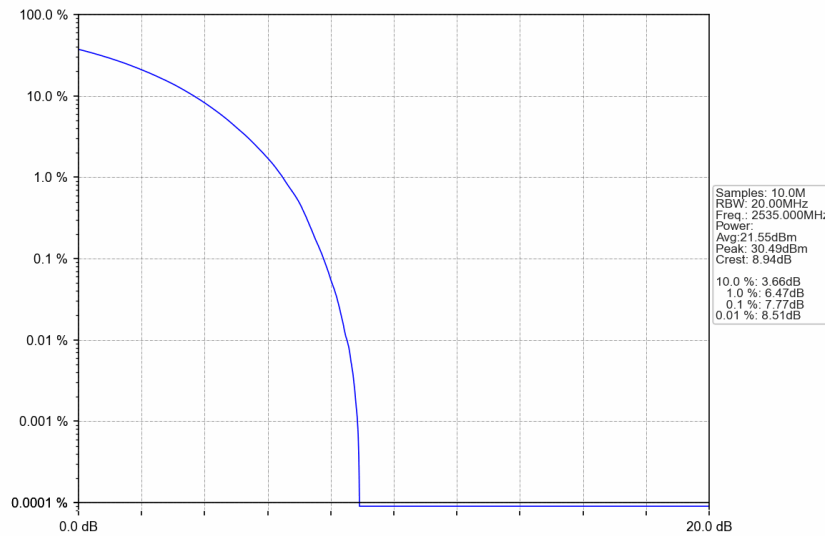
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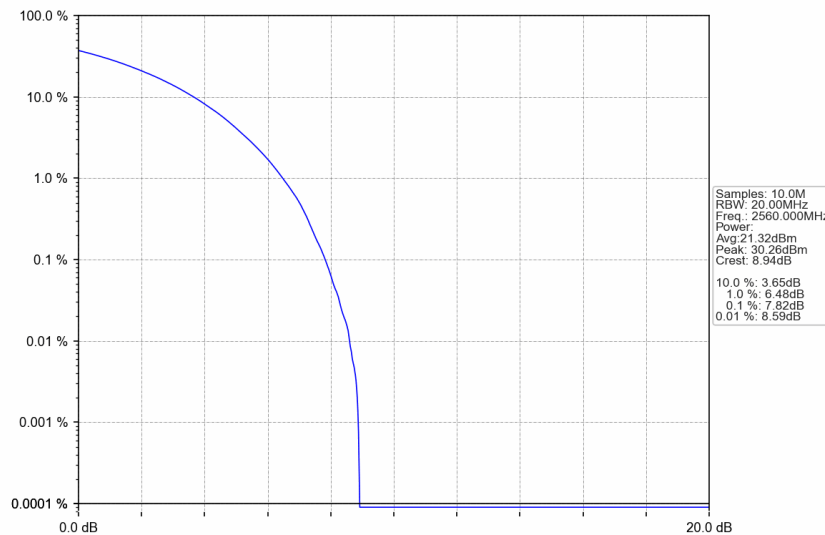
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n7_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2560MHz_Outer_Full



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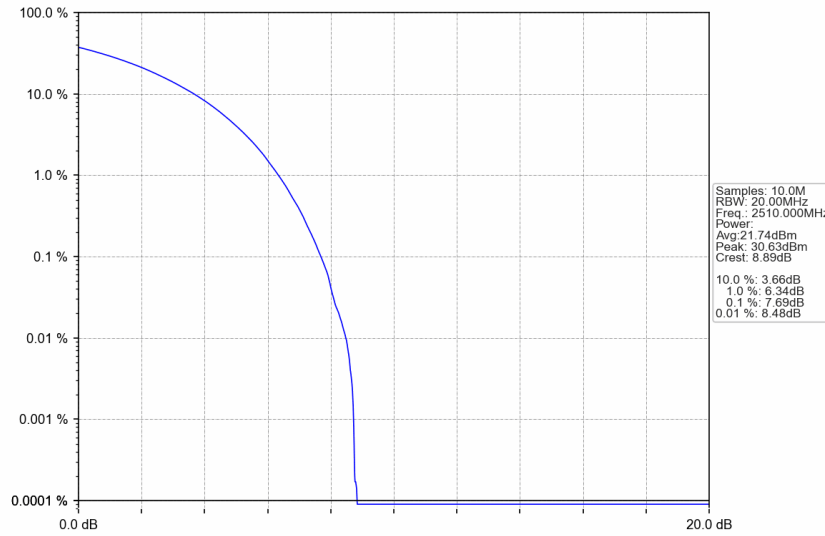
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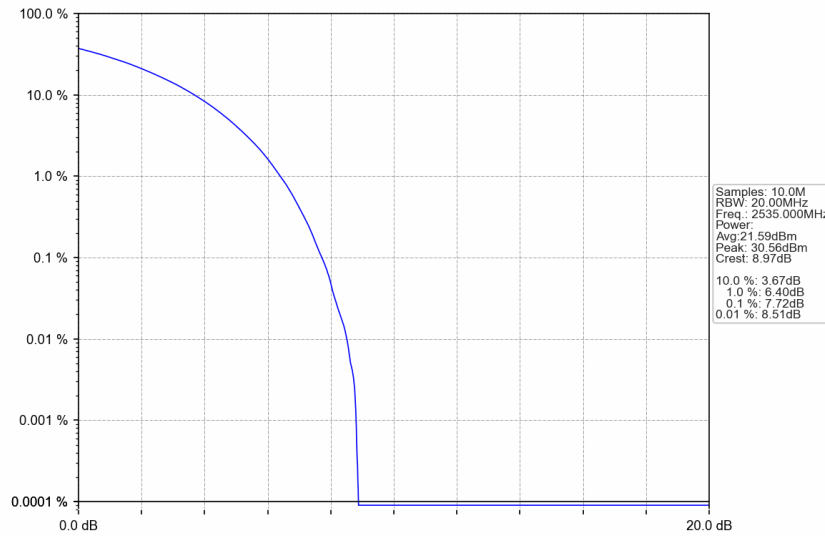
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n7_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_2510MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_2535MHz_Outer_Full

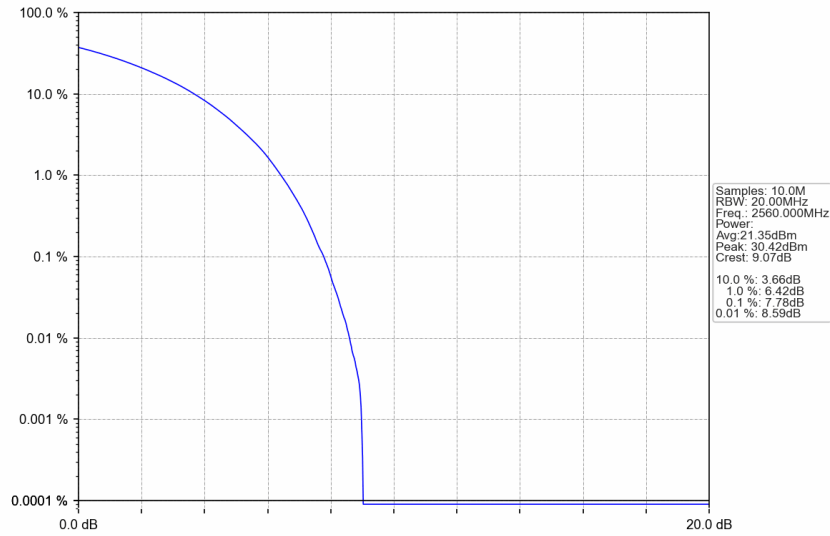


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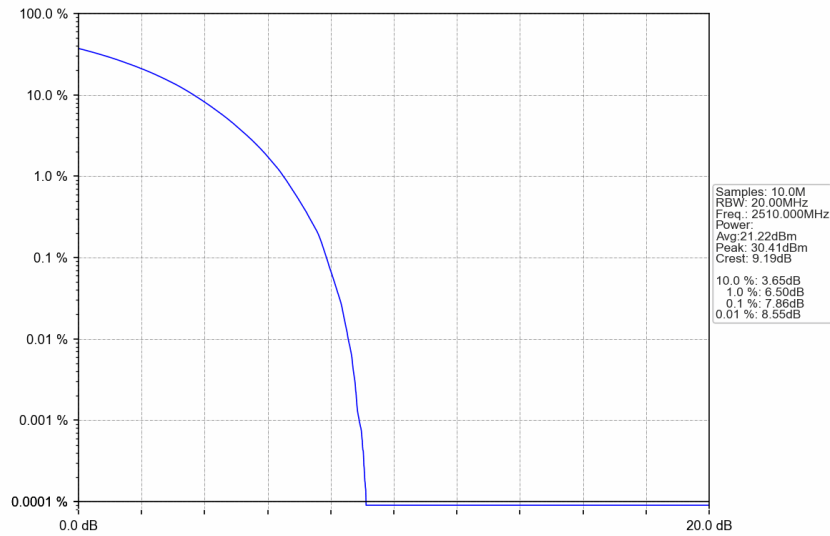
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n7_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_2560MHz_Outer_Full



n7_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_2510MHz_Outer_Full

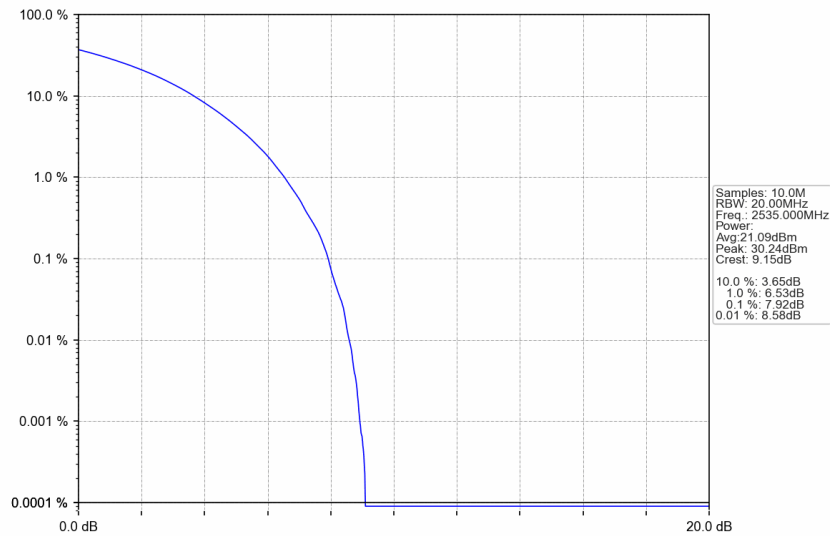


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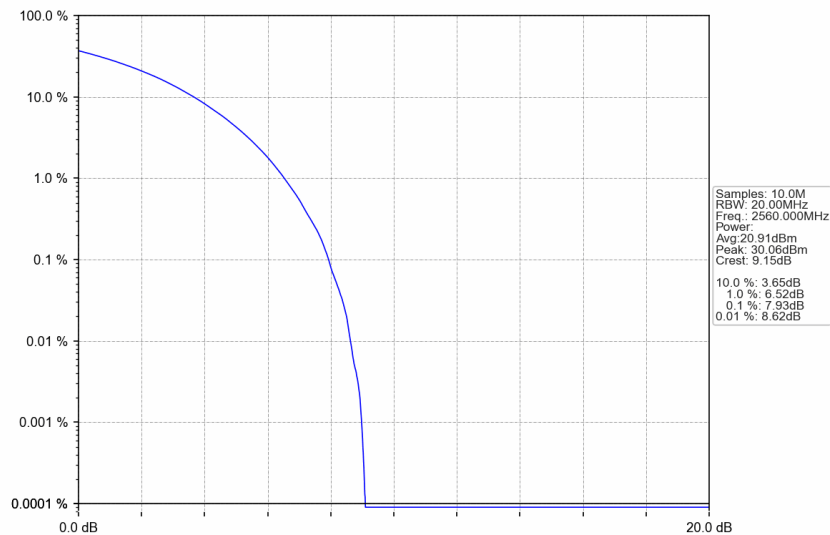
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n7_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_2535MHz_Outer_Full



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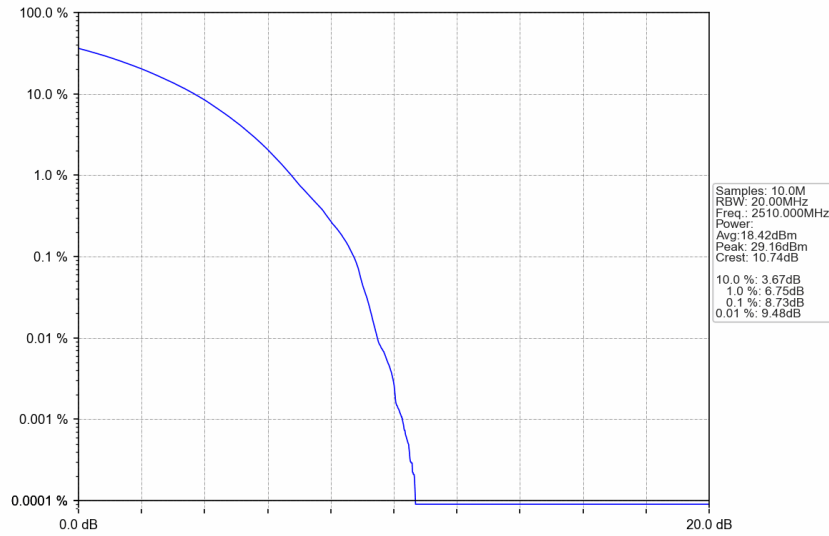
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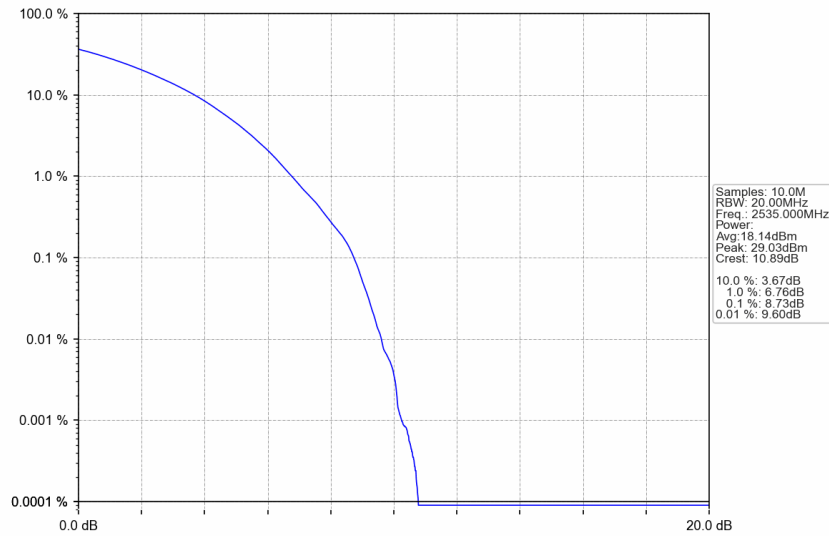
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n7_30kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_2510MHz_Outer_Full



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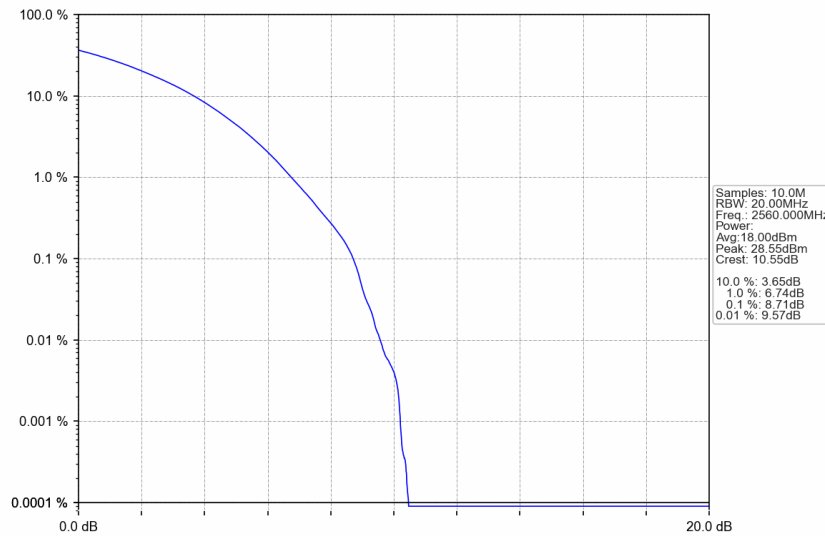


Report No.: SEWM2311000456RG02

Rev.: 01

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5.12 30k_SISO_25MHz_NTNV

5.12.1 Test Result

5G NR n7 SCS=30kHz SISO 25MHz NTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2512.5	Outer_Full	3.45	/	/	<=13	Pass
	2535	Outer_Full	3.28	/	/	<=13	Pass
	2557.5	Outer_Full	3.62	/	/	<=13	Pass
DFT-s-OFDM QPSK	2512.5	Outer_Full	5.00	/	/	<=13	Pass
	2535	Outer_Full	4.88	/	/	<=13	Pass
	2557.5	Outer_Full	5.07	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2512.5	Outer_Full	6.01	/	/	<=13	Pass
	2535	Outer_Full	5.97	/	/	<=13	Pass
	2557.5	Outer_Full	6.04	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2512.5	Outer_Full	6.35	/	/	<=13	Pass
	2535	Outer_Full	6.31	/	/	<=13	Pass
	2557.5	Outer_Full	6.41	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2512.5	Outer_Full	6.60	/	/	<=13	Pass
	2535	Outer_Full	6.59	/	/	<=13	Pass
	2557.5	Outer_Full	6.61	/	/	<=13	Pass
CP-OFDM QPSK	2512.5	Outer_Full	7.74	/	/	<=13	Pass
	2535	Outer_Full	7.74	/	/	<=13	Pass
	2557.5	Outer_Full	7.84	/	/	<=13	Pass
CP-OFDM 16 QAM	2512.5	Outer_Full	7.79	/	/	<=13	Pass
	2535	Outer_Full	7.80	/	/	<=13	Pass
	2557.5	Outer_Full	7.89	/	/	<=13	Pass
CP-OFDM 64 QAM	2512.5	Outer_Full	7.99	/	/	<=13	Pass
	2535	Outer_Full	8.02	/	/	<=13	Pass
	2557.5	Outer_Full	8.06	/	/	<=13	Pass
CP-OFDM 256 QAM	2512.5	Outer_Full	8.60	/	/	<=13	Pass
	2535	Outer_Full	8.60	/	/	<=13	Pass
	2557.5	Outer_Full	8.61	/	/	<=13	Pass

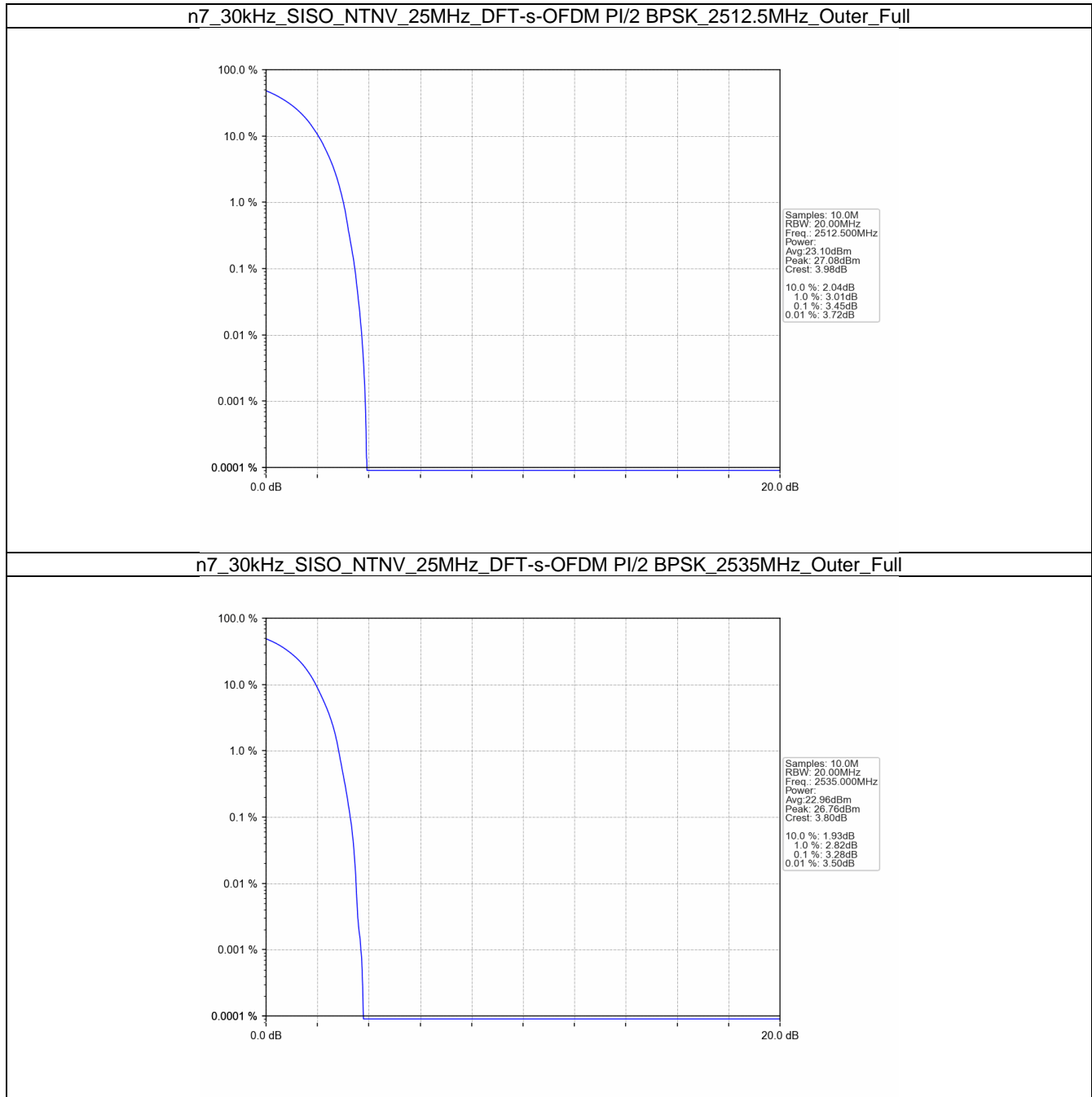


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5.12.2 Test Graph

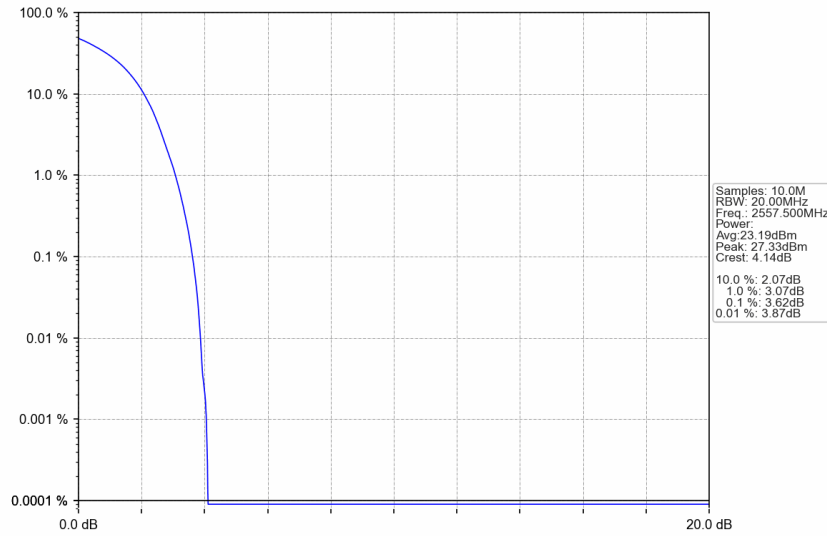


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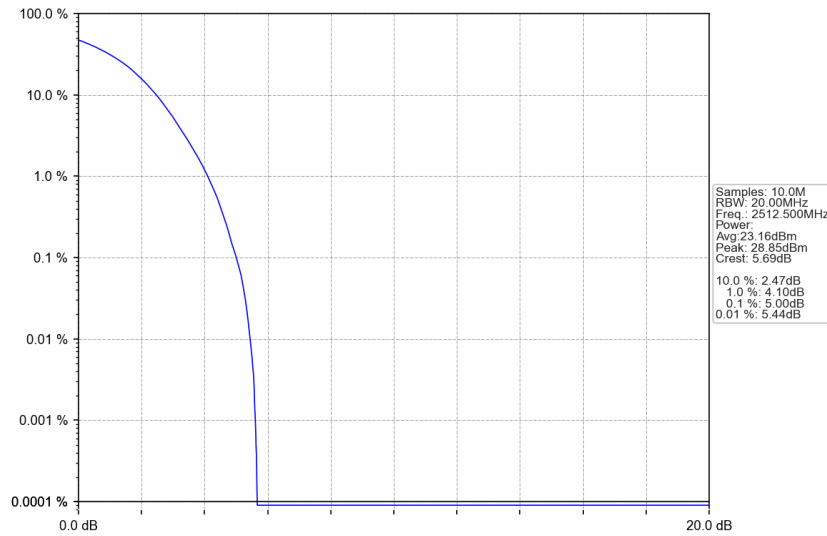
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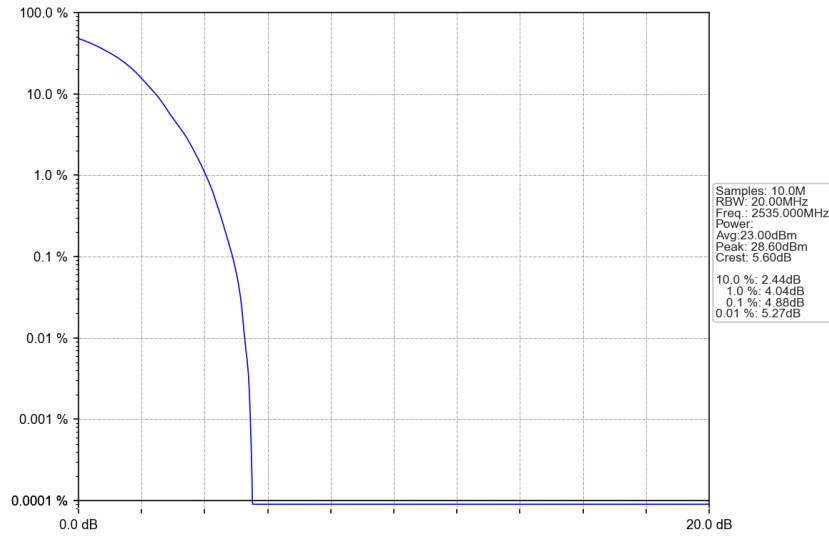


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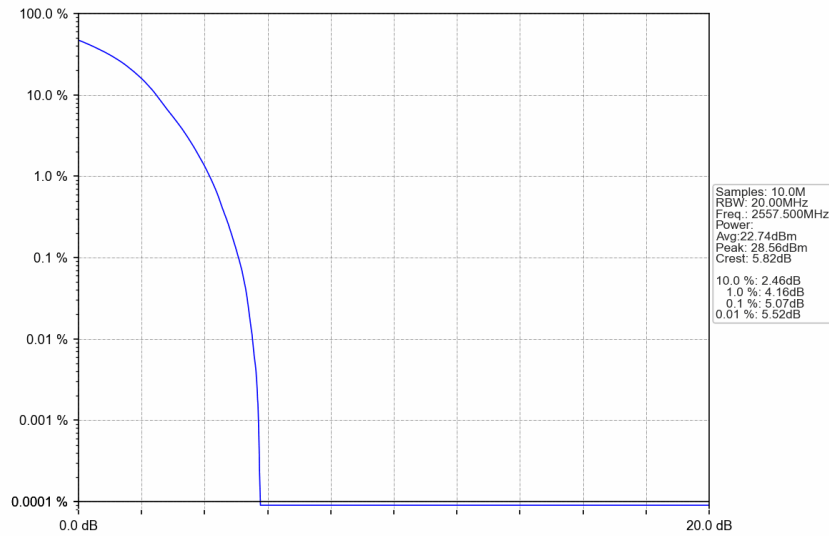
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n7_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_2557.5MHz_Outer_Full



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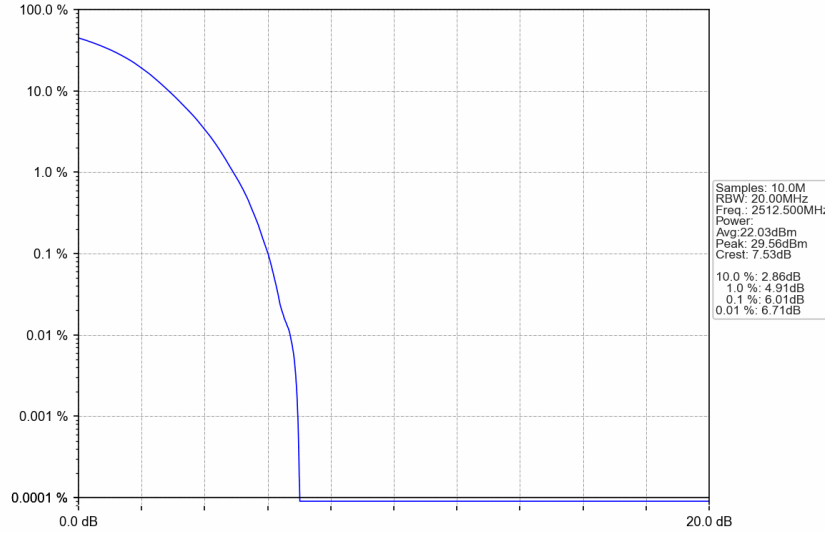
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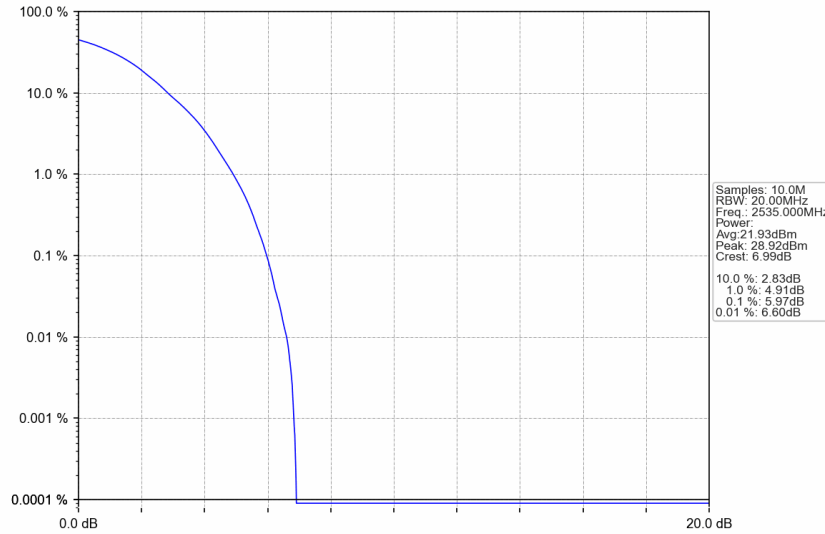
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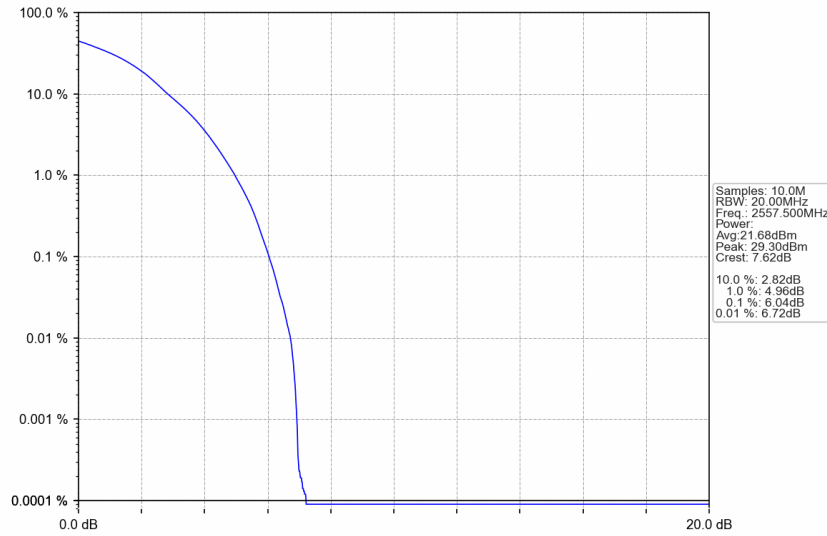
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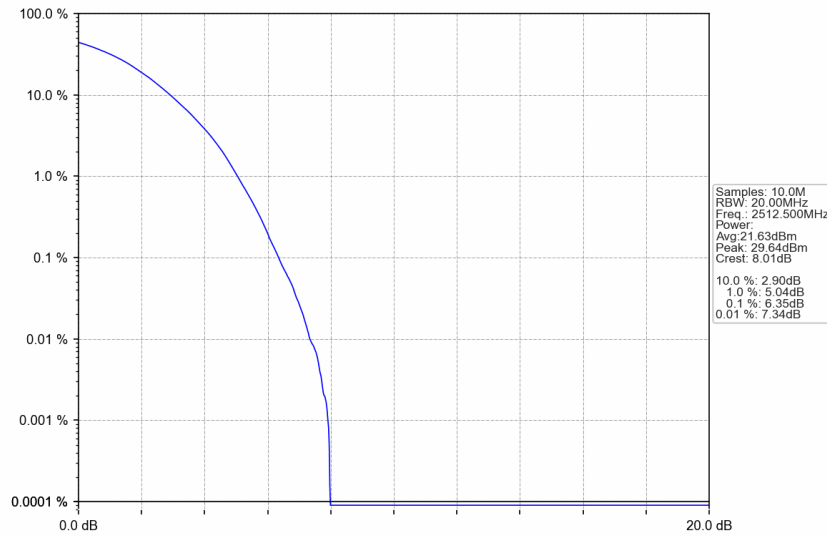
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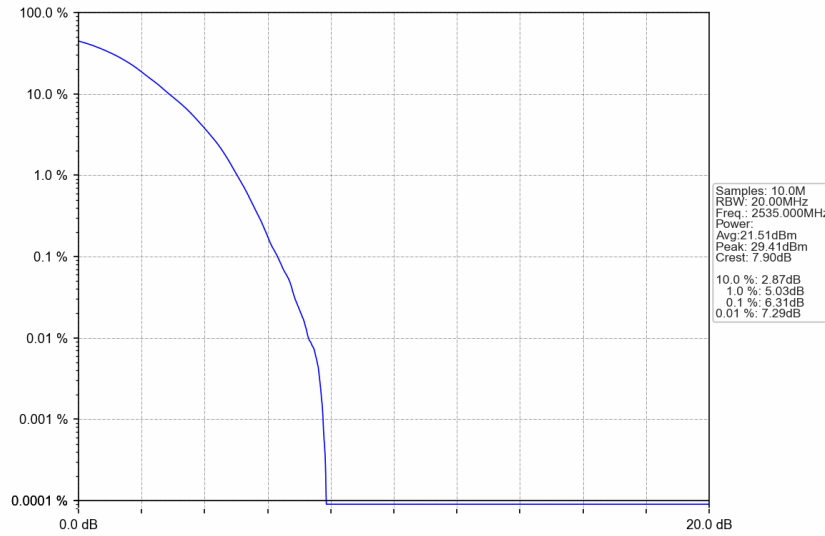
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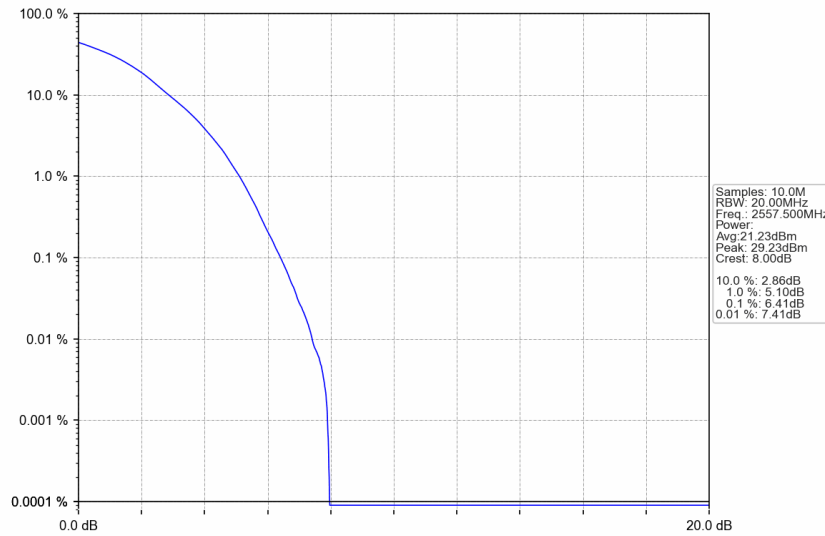
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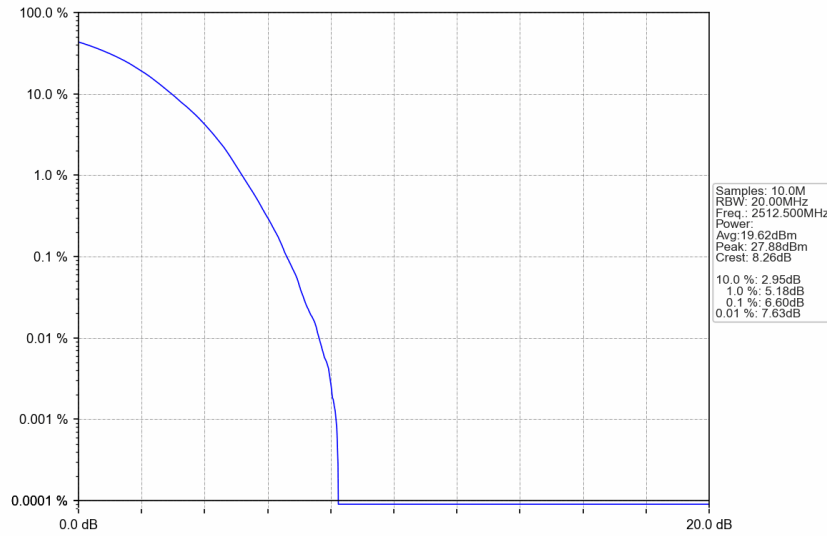
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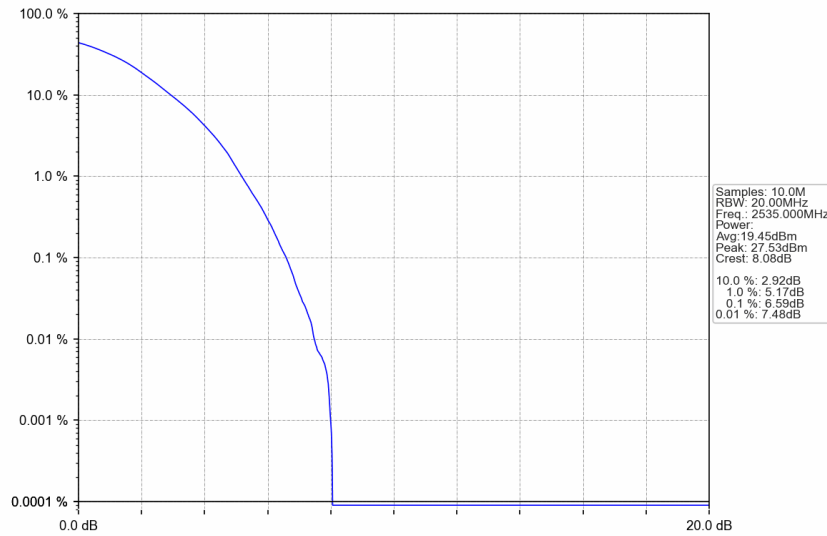
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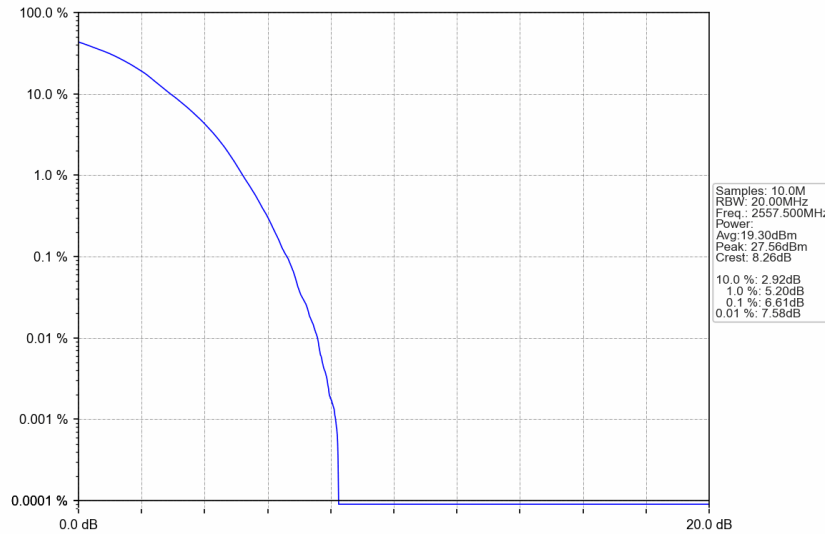


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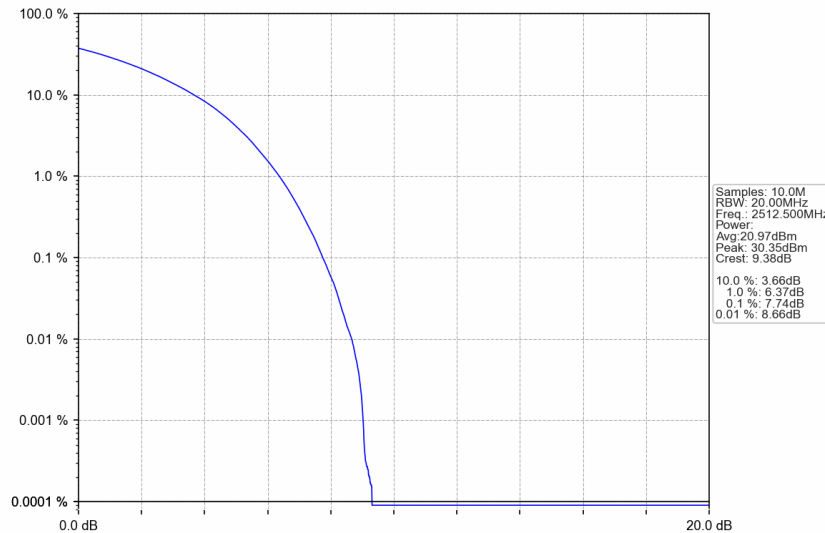
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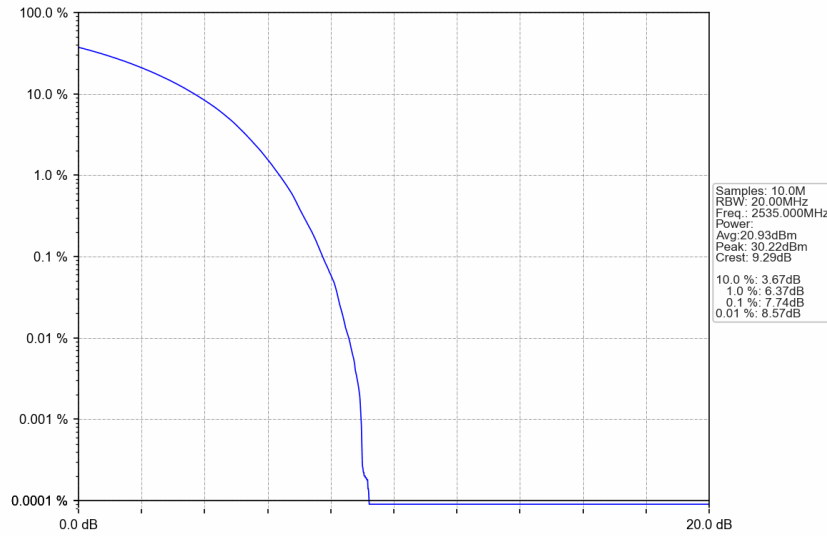
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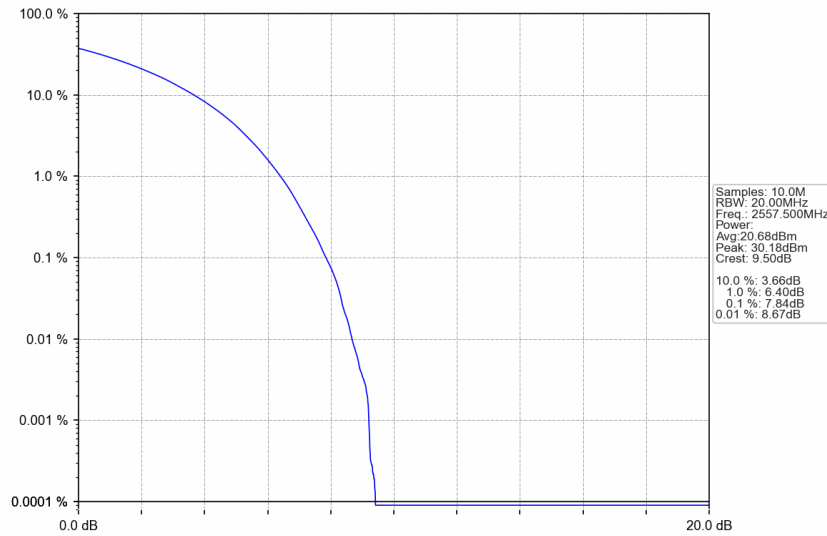
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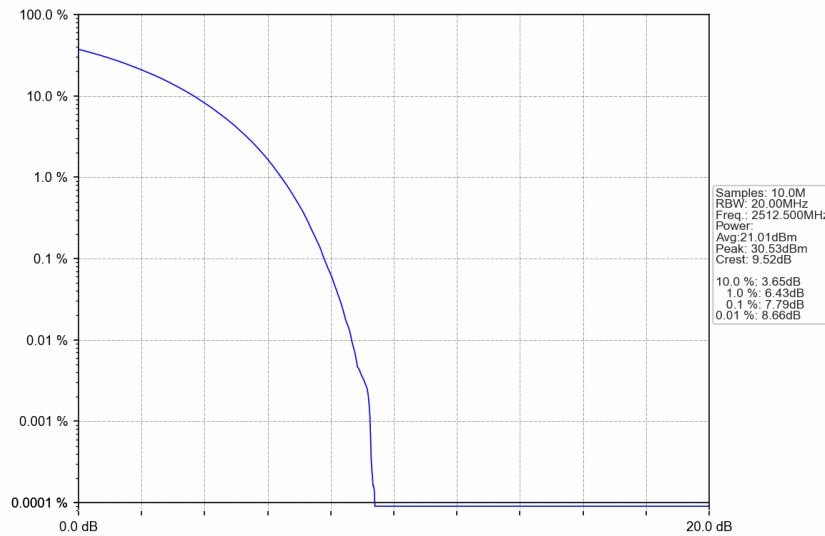
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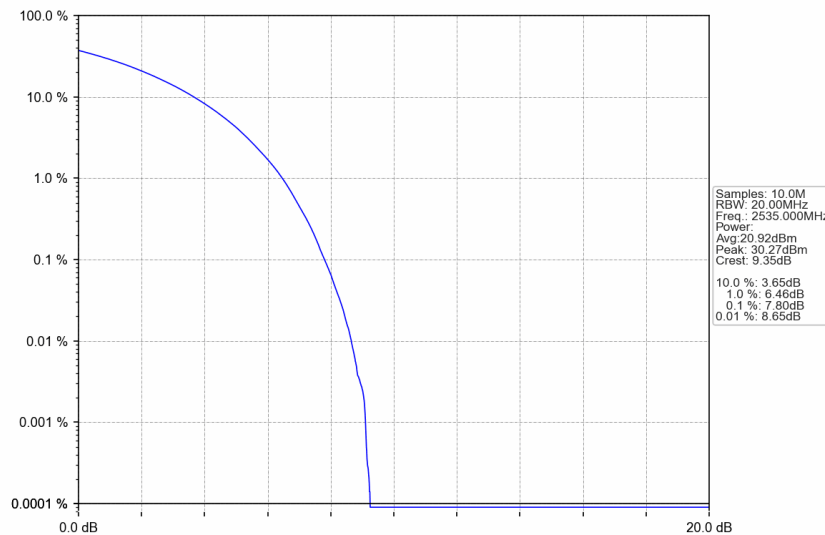
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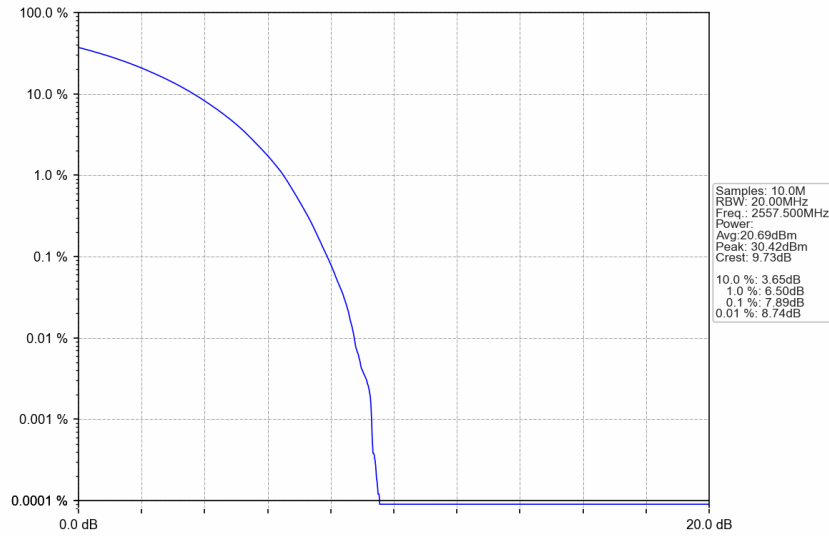
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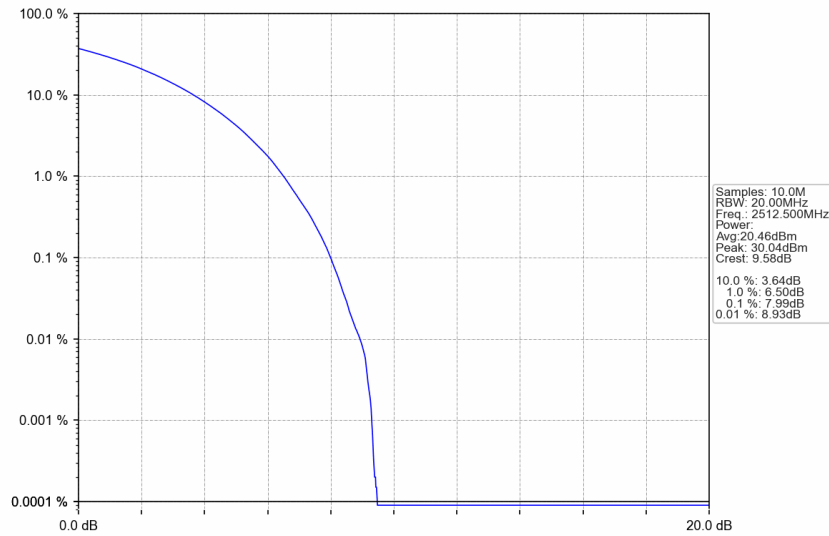
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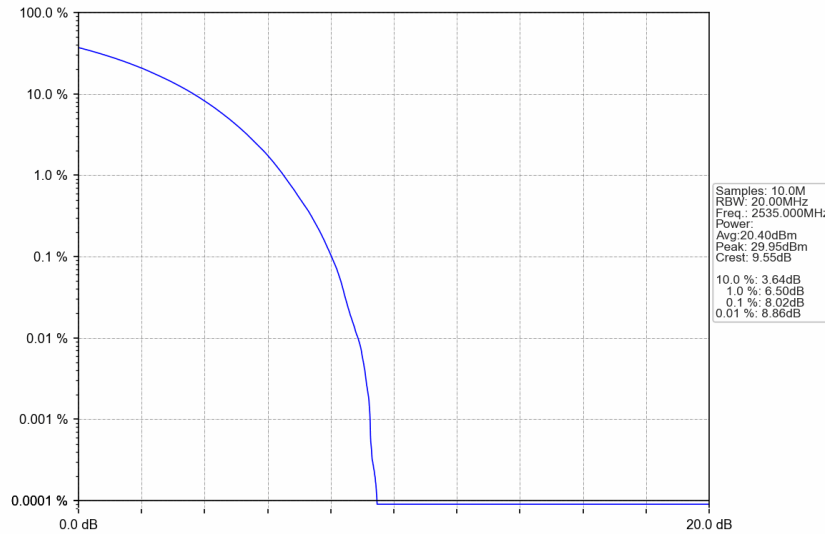


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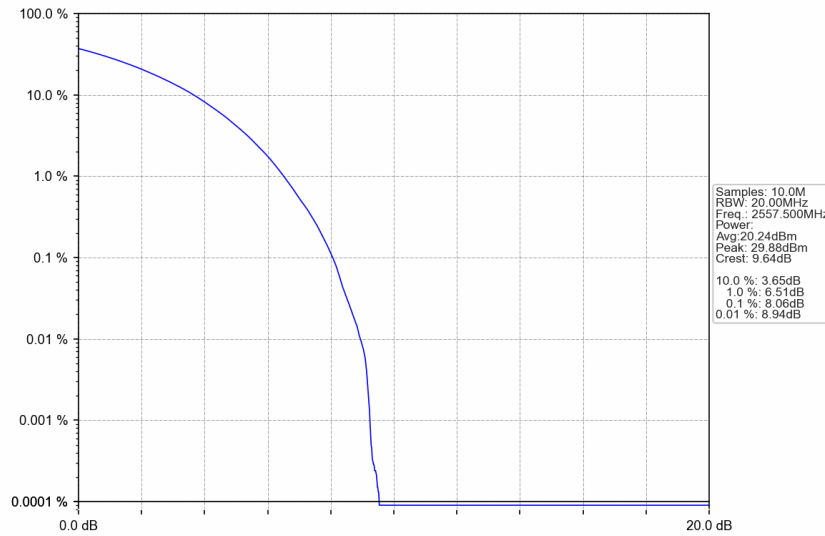
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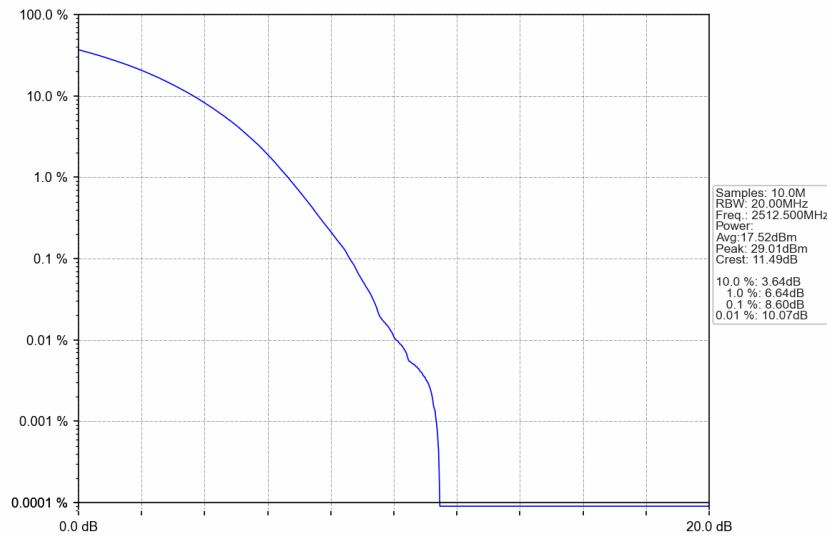
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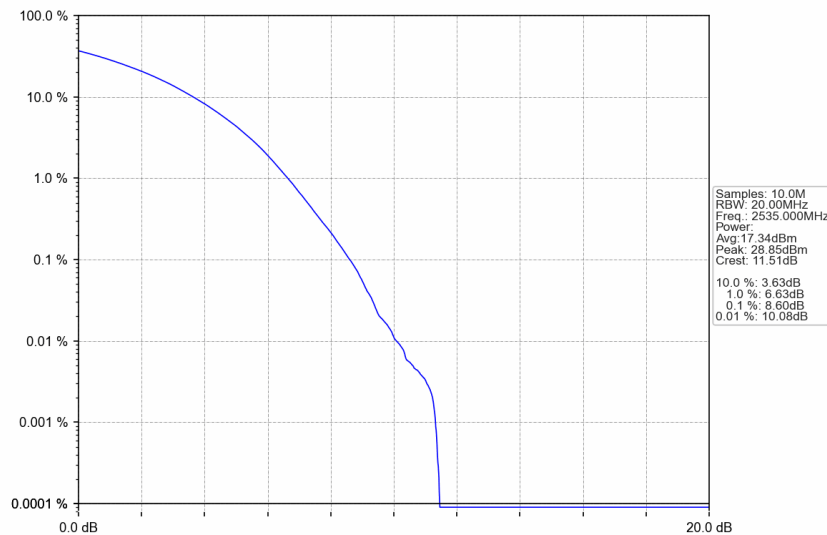
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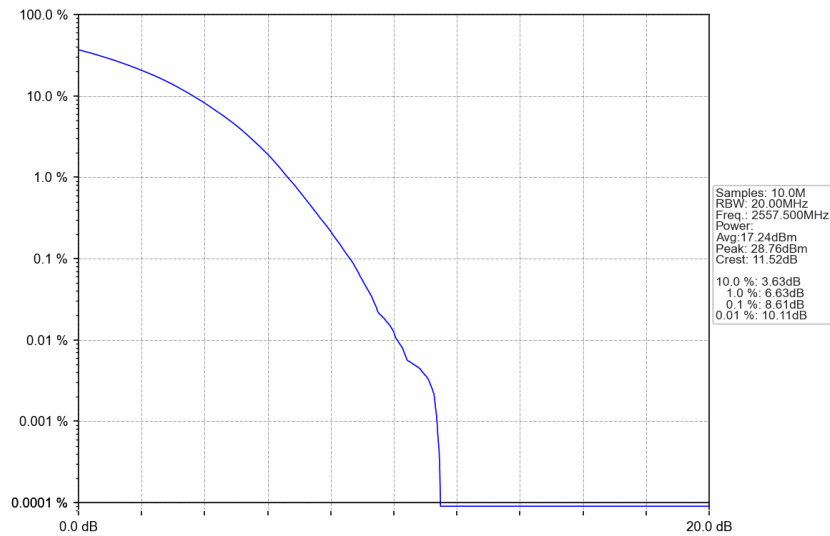


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5.13 30k_SISO_30MHz_NTNV

5.13.1 Test Result

5G NR n7 SCS=30kHz SISO 30MHz NTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2515	Outer_Full	3.79	/	/	<=13	Pass
	2535	Outer_Full	3.60	/	/	<=13	Pass
	2555	Outer_Full	3.83	/	/	<=13	Pass
DFT-s-OFDM QPSK	2515	Outer_Full	5.19	/	/	<=13	Pass
	2535	Outer_Full	5.07	/	/	<=13	Pass
	2555	Outer_Full	5.20	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2515	Outer_Full	6.34	/	/	<=13	Pass
	2535	Outer_Full	6.28	/	/	<=13	Pass
	2555	Outer_Full	6.38	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2515	Outer_Full	6.45	/	/	<=13	Pass
	2535	Outer_Full	6.41	/	/	<=13	Pass
	2555	Outer_Full	6.50	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2515	Outer_Full	6.81	/	/	<=13	Pass
	2535	Outer_Full	6.74	/	/	<=13	Pass
	2555	Outer_Full	6.84	/	/	<=13	Pass
CP-OFDM QPSK	2515	Outer_Full	7.95	/	/	<=13	Pass
	2535	Outer_Full	7.89	/	/	<=13	Pass
	2555	Outer_Full	8.01	/	/	<=13	Pass
CP-OFDM 16 QAM	2515	Outer_Full	7.92	/	/	<=13	Pass
	2535	Outer_Full	7.87	/	/	<=13	Pass
	2555	Outer_Full	8.00	/	/	<=13	Pass
CP-OFDM 64 QAM	2515	Outer_Full	8.07	/	/	<=13	Pass
	2535	Outer_Full	8.05	/	/	<=13	Pass
	2555	Outer_Full	8.13	/	/	<=13	Pass
CP-OFDM 256 QAM	2515	Outer_Full	8.47	/	/	<=13	Pass
	2535	Outer_Full	8.49	/	/	<=13	Pass
	2555	Outer_Full	8.47	/	/	<=13	Pass

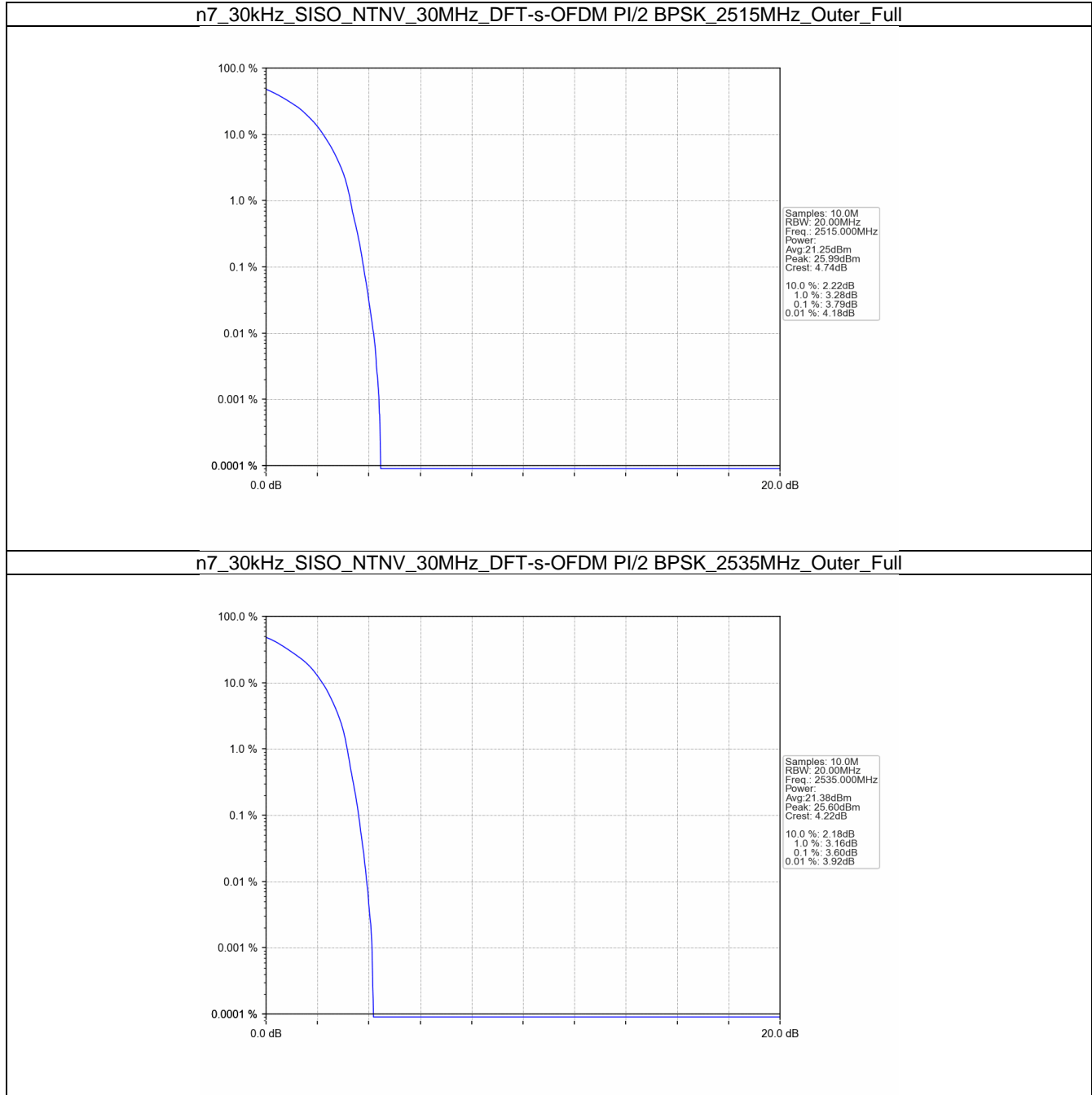


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5.13.2 Test Graph

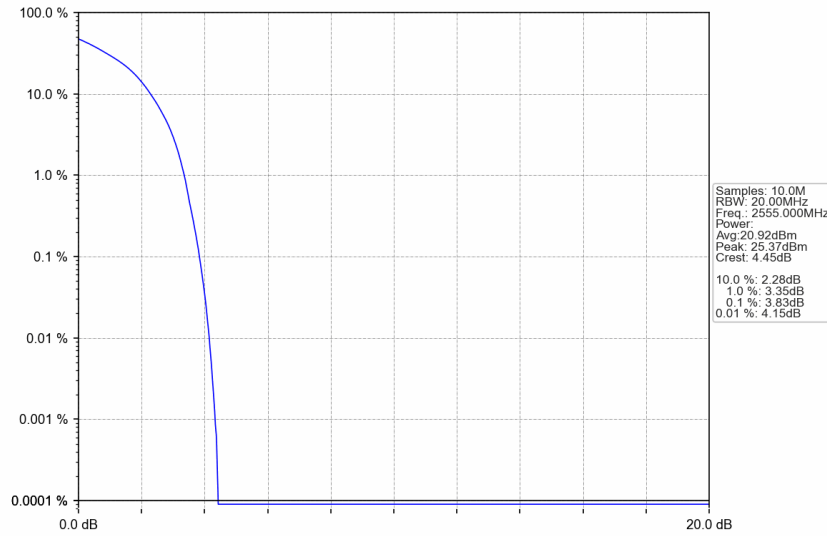


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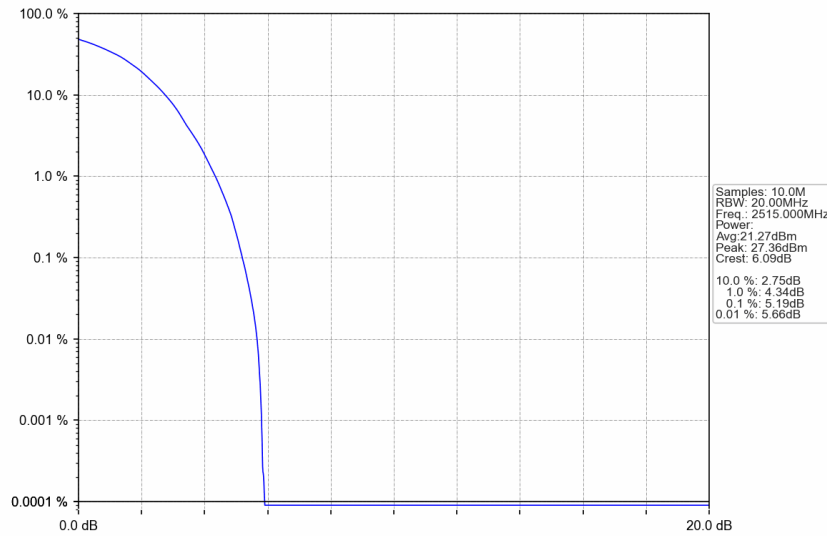
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n7_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_2555MHz_Outer_Full



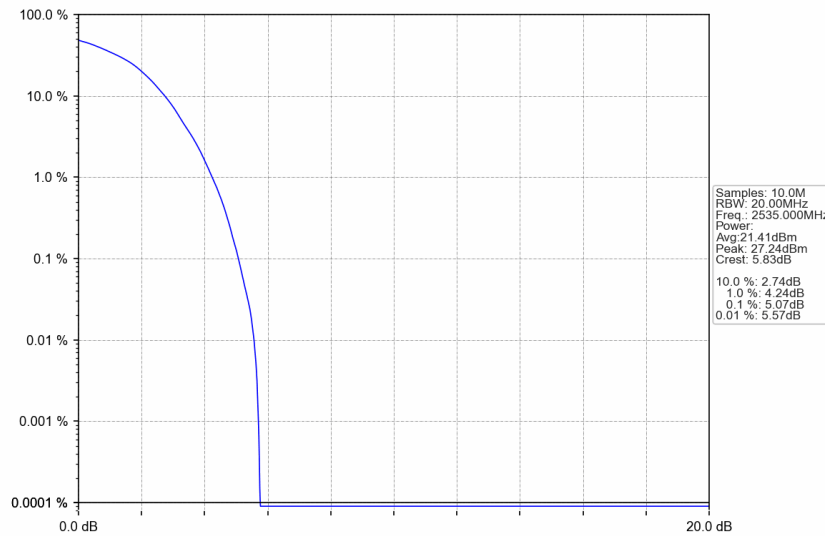
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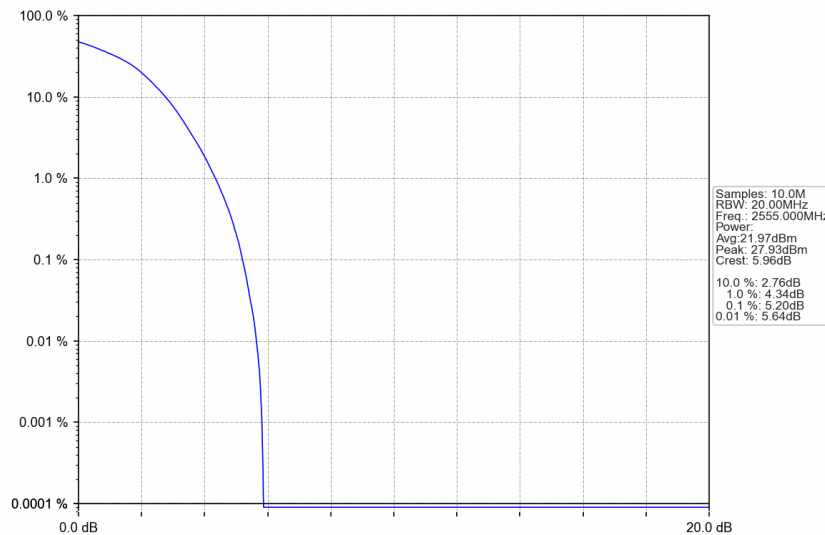
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n7_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_2535MHz_Outer_Full



n7_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_2555MHz_Outer_Full



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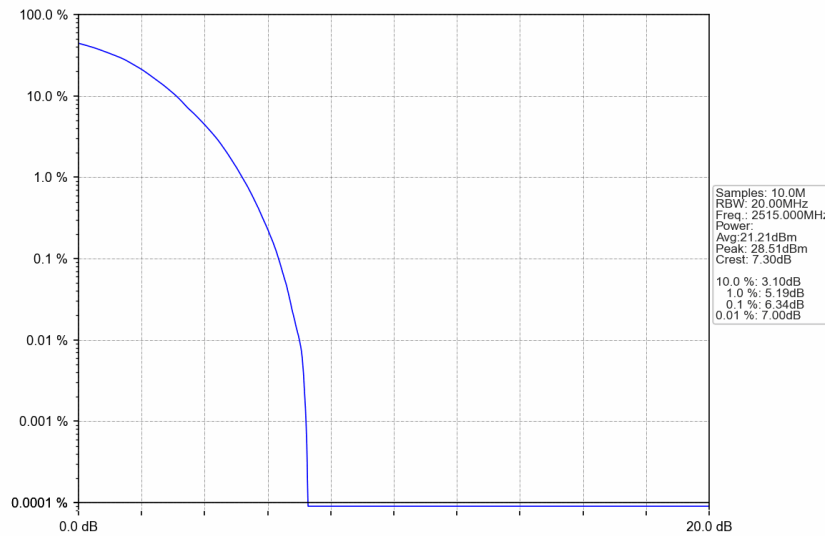
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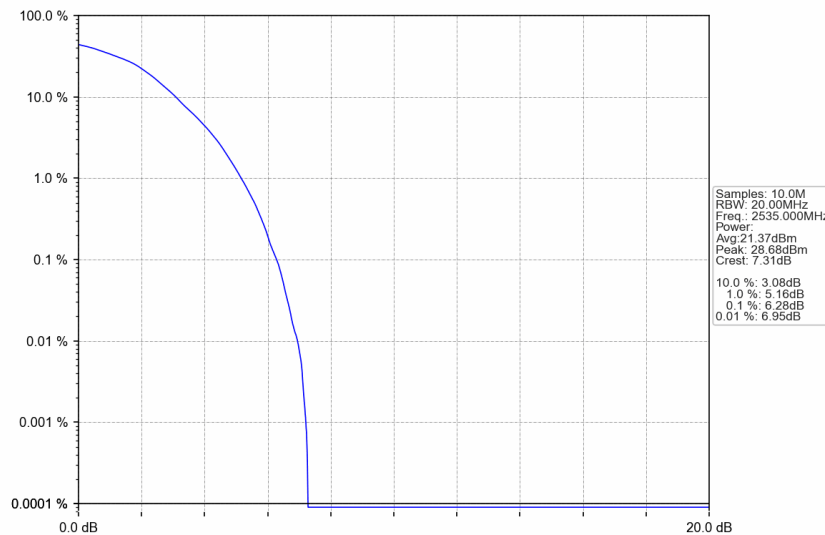
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n7_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_2515MHz_Outer_Full



n7_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_2535MHz_Outer_Full

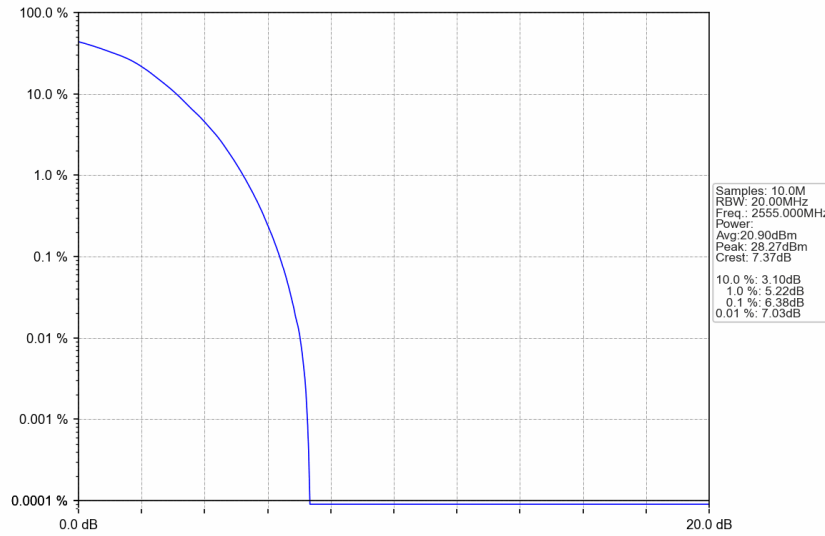


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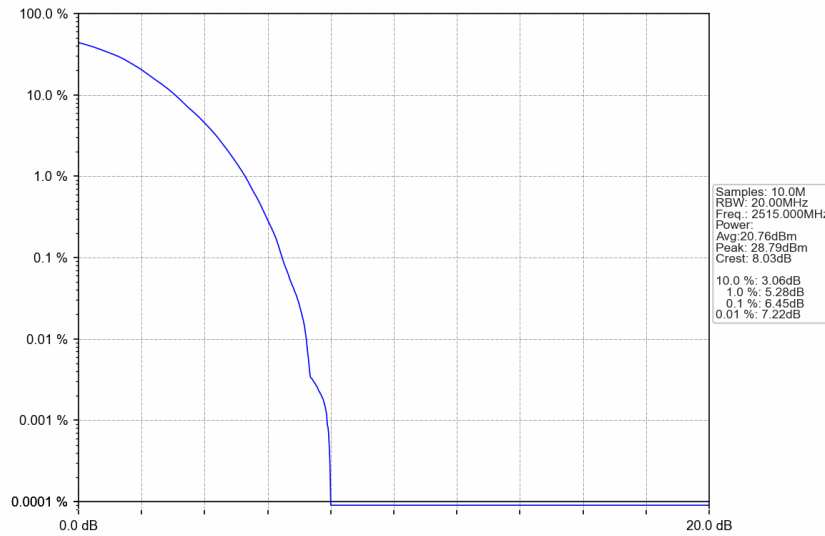
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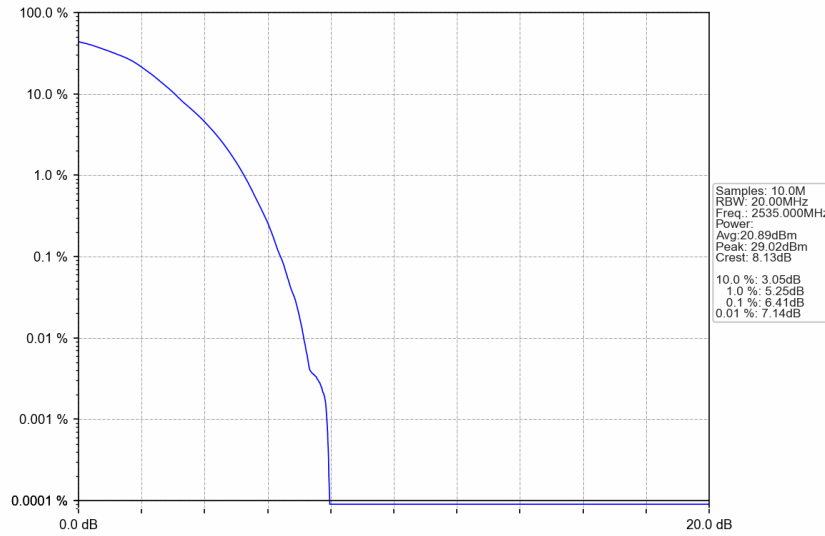
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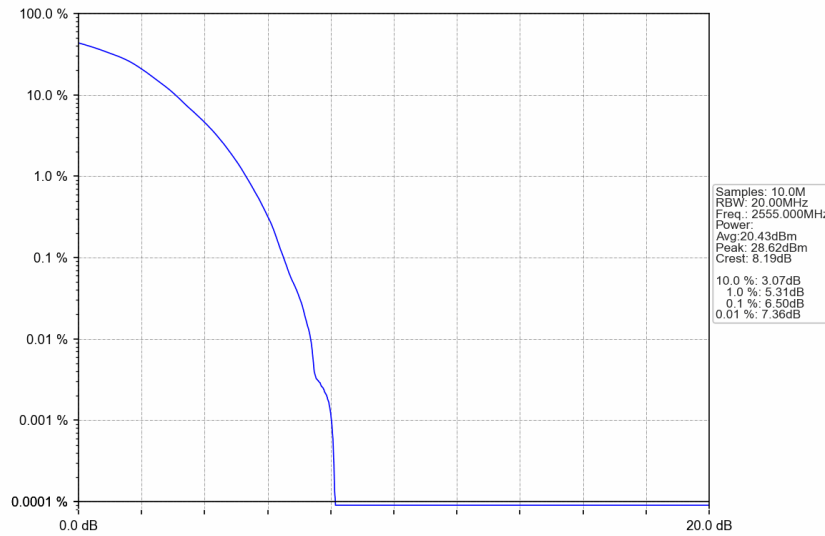
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