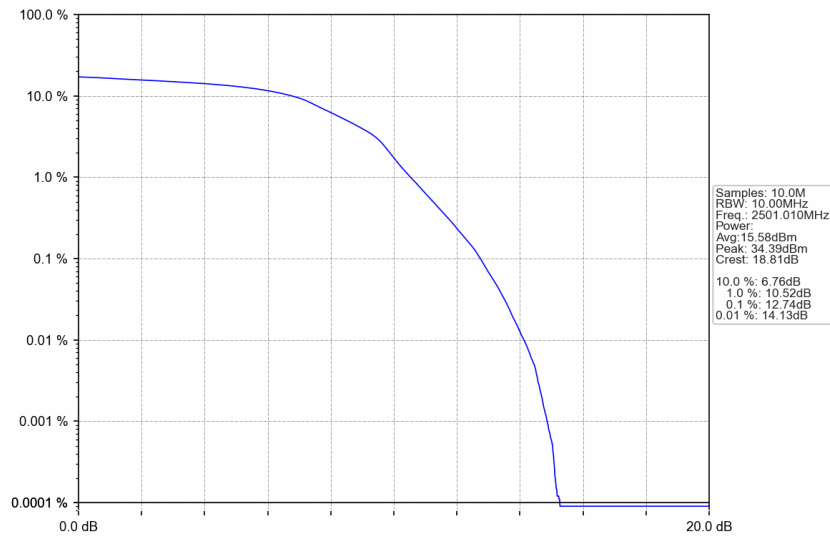
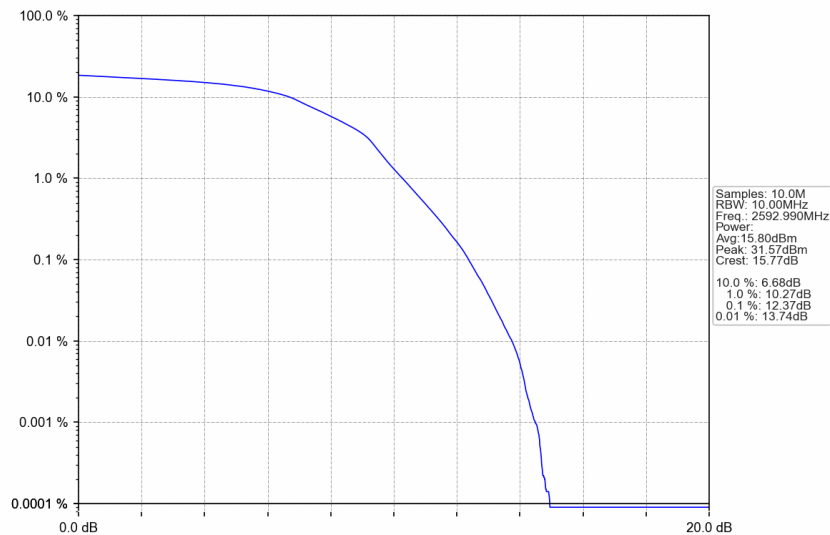




n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_2501.01MHz_Outer_Full



n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_2592.99MHz_Outer_Full



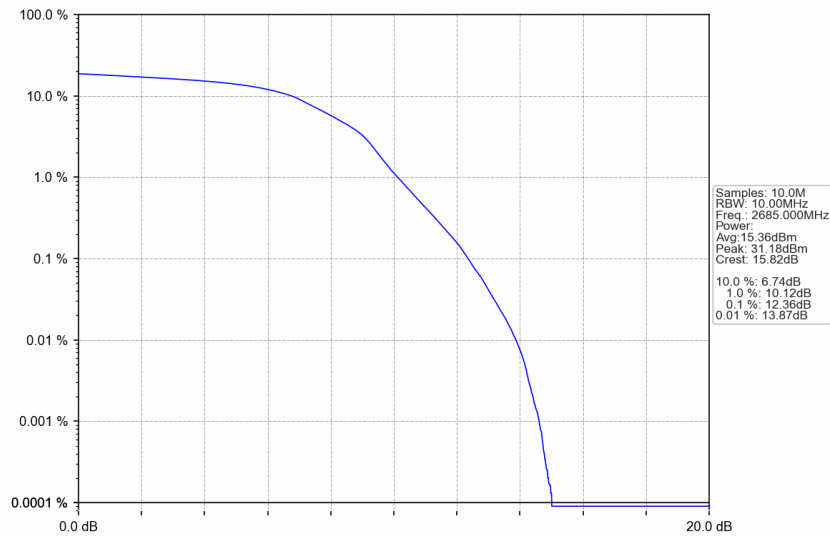
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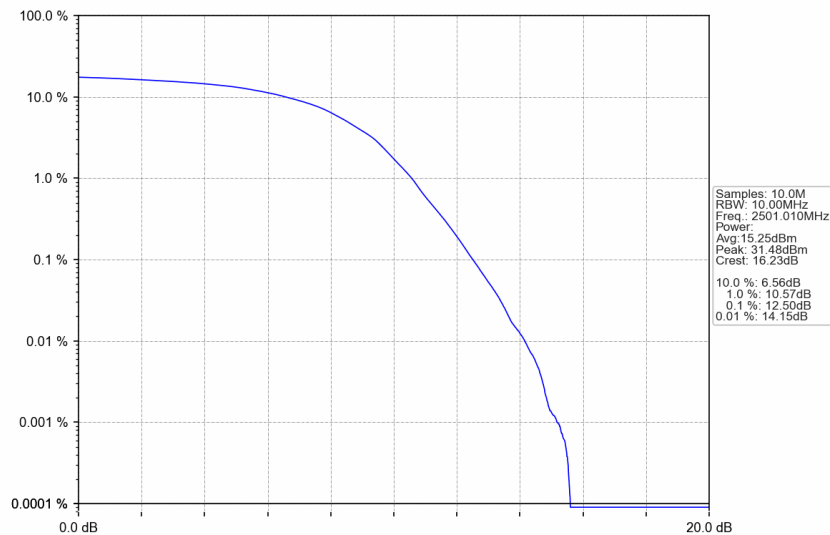
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n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_2685MHz_Outer_Full



n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_2501.01MHz_Outer_Full



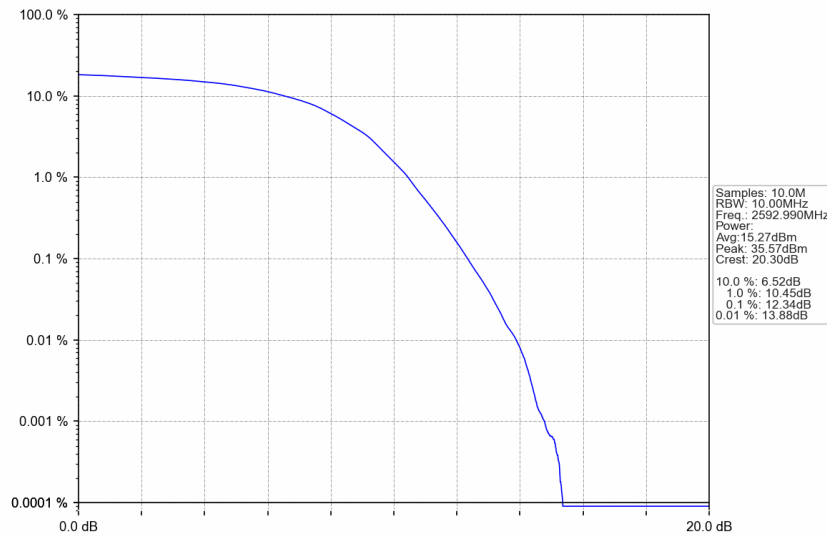
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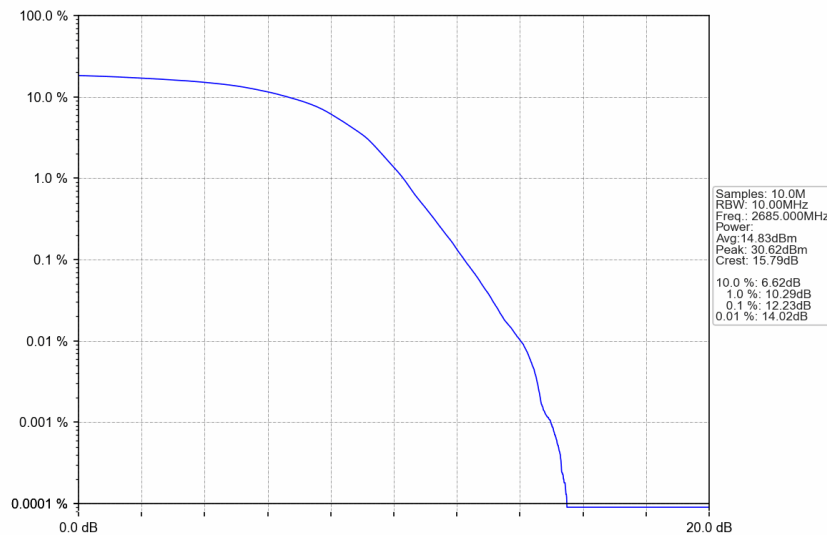
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n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_2685MHz_Outer_Full

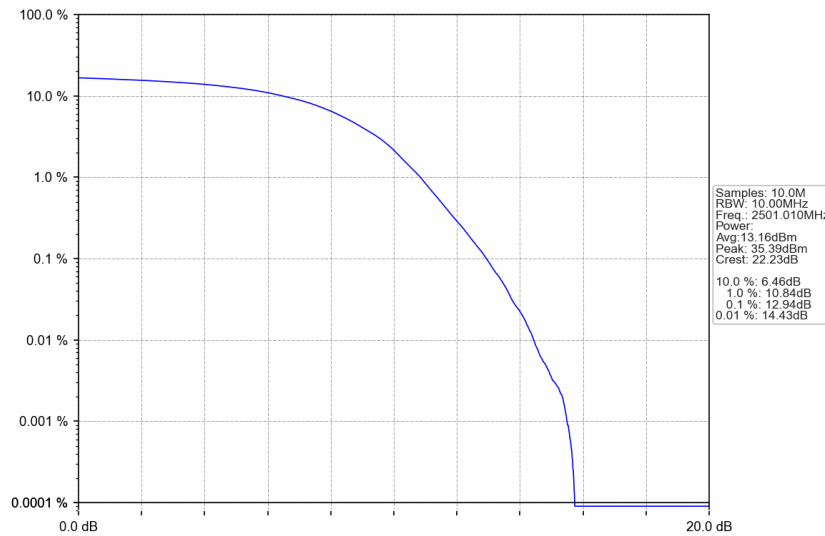


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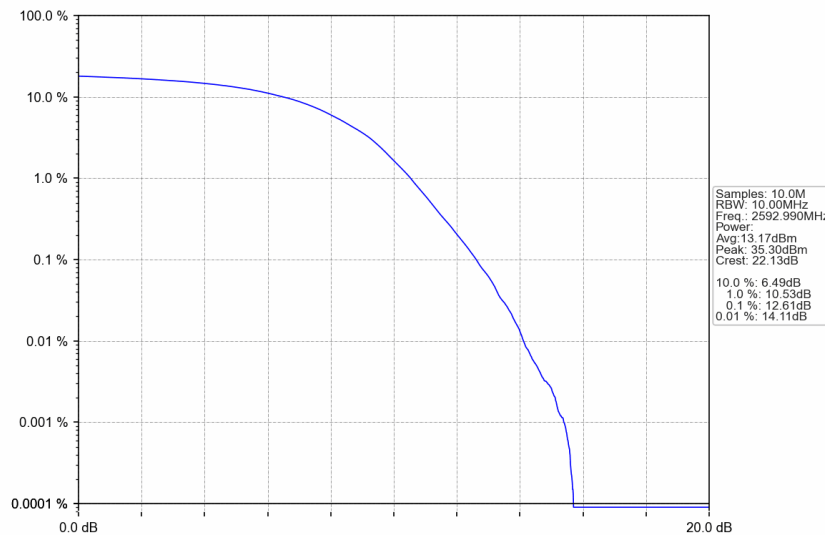
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n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_2501.01MHz_Outer_Full



n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_2592.99MHz_Outer_Full

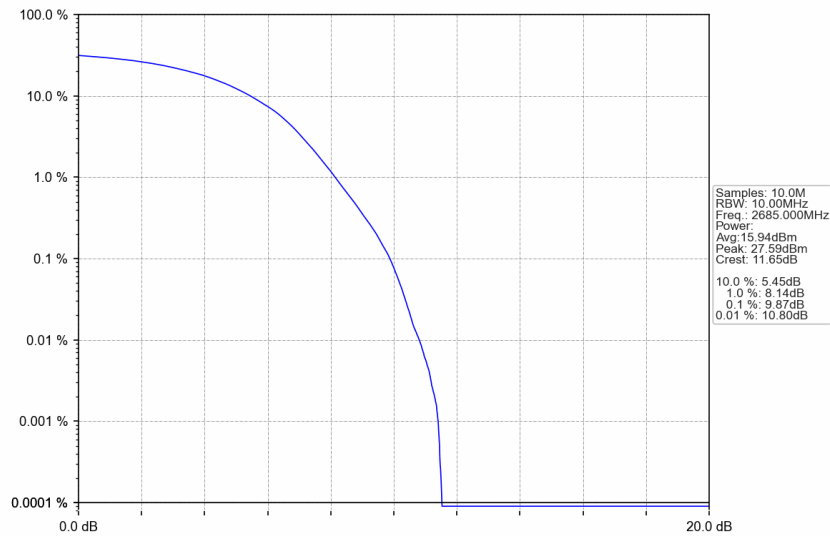


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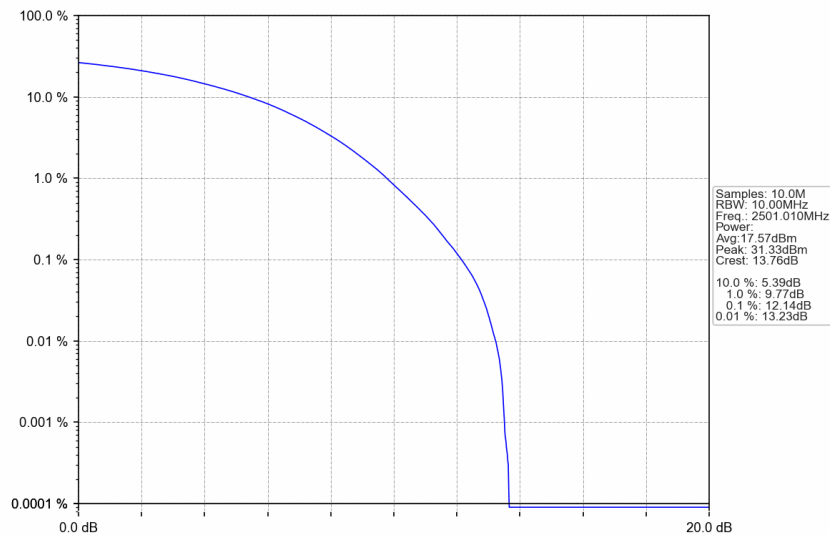
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n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_2685MHz_Outer_Full



n41_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2501.01MHz_Outer_Full



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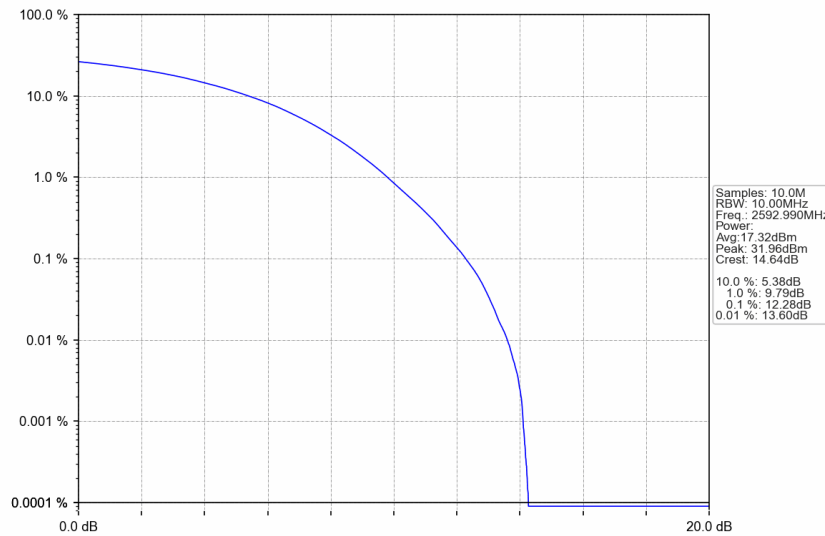
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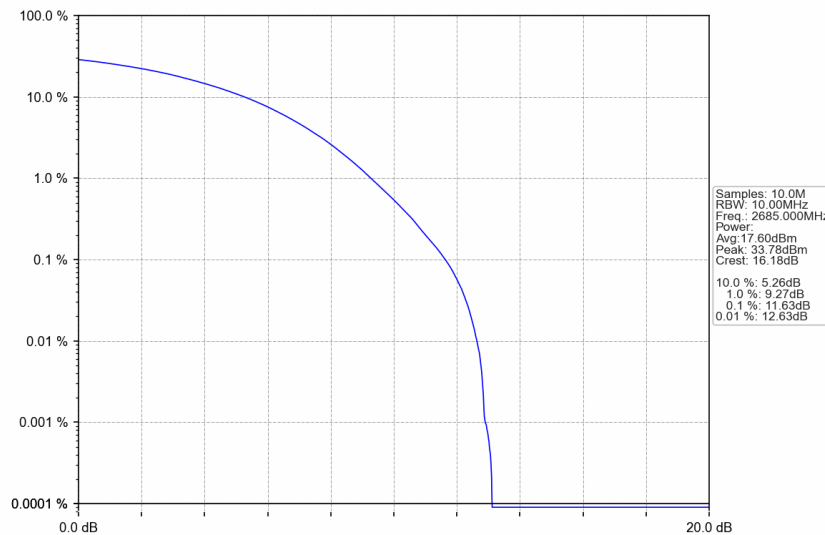
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n41_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2685MHz_Outer_Full



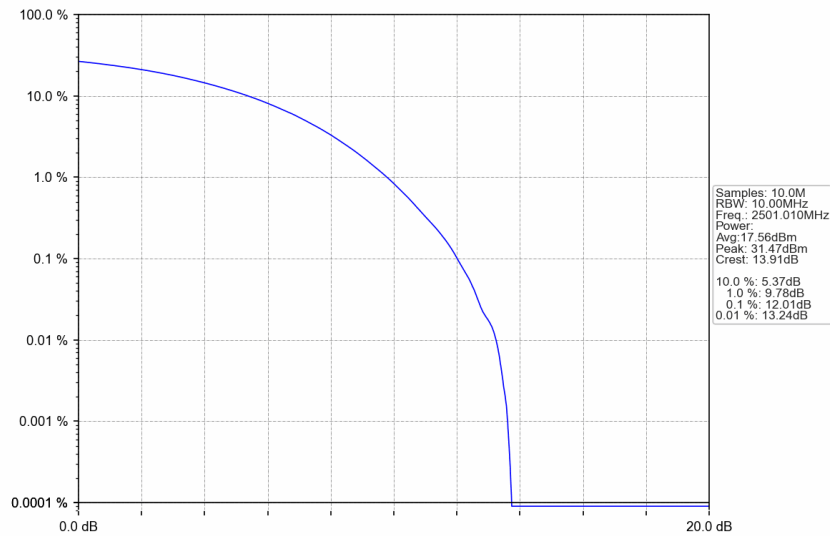
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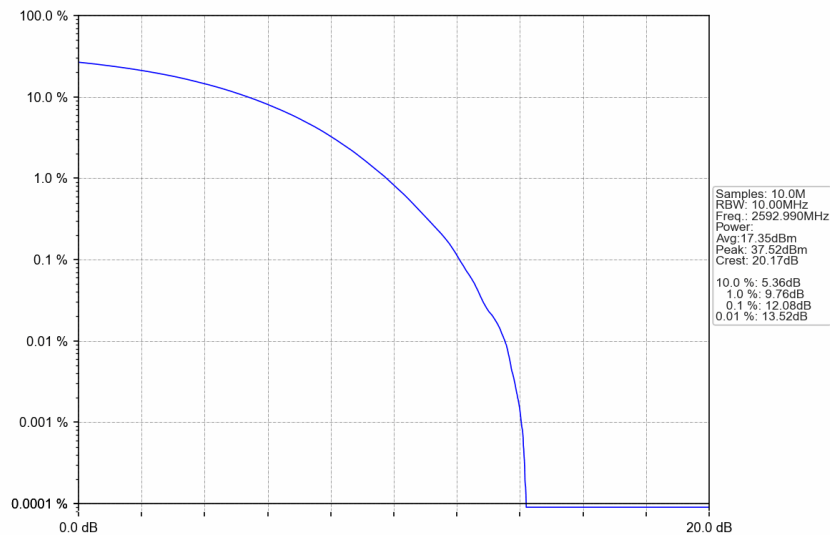
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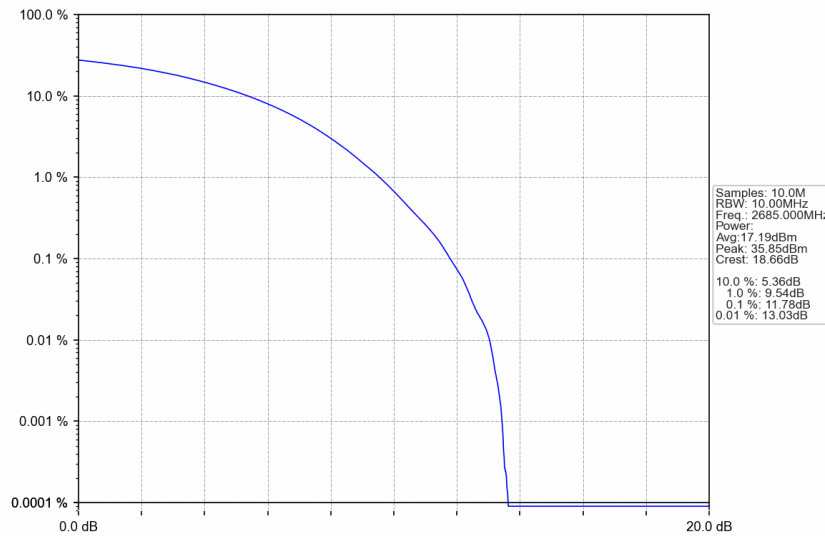
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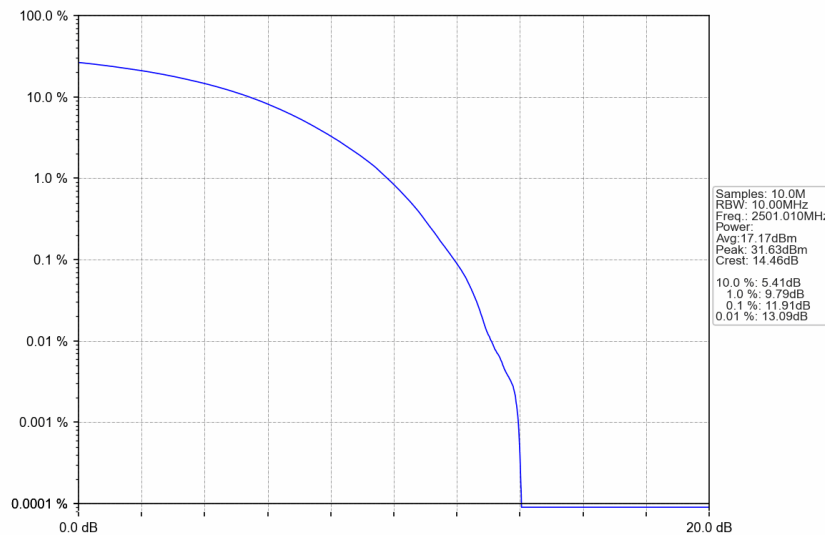
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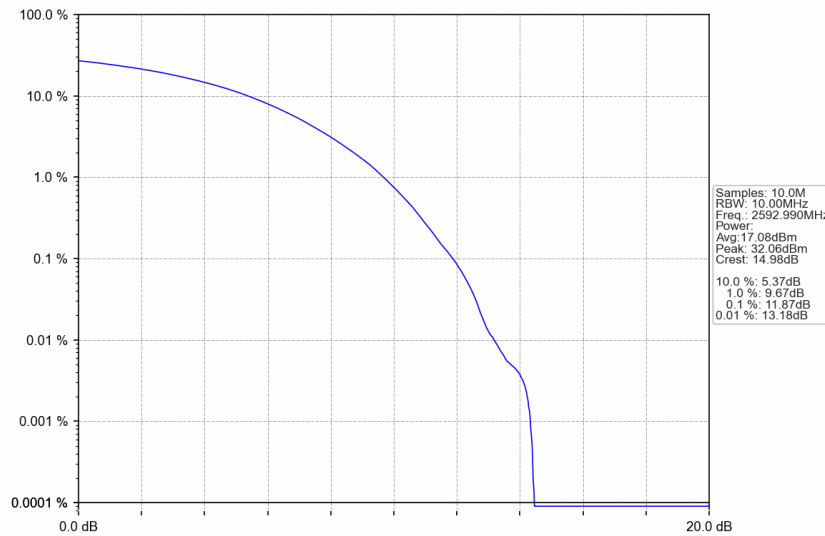
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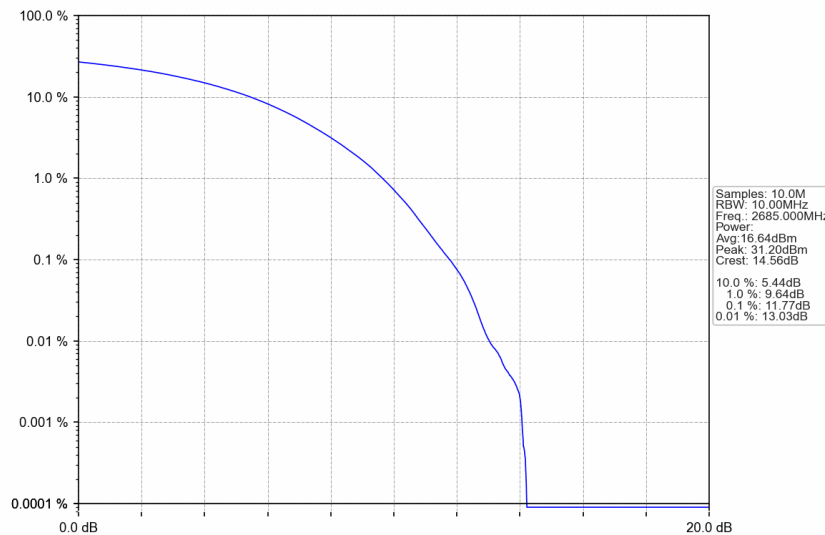
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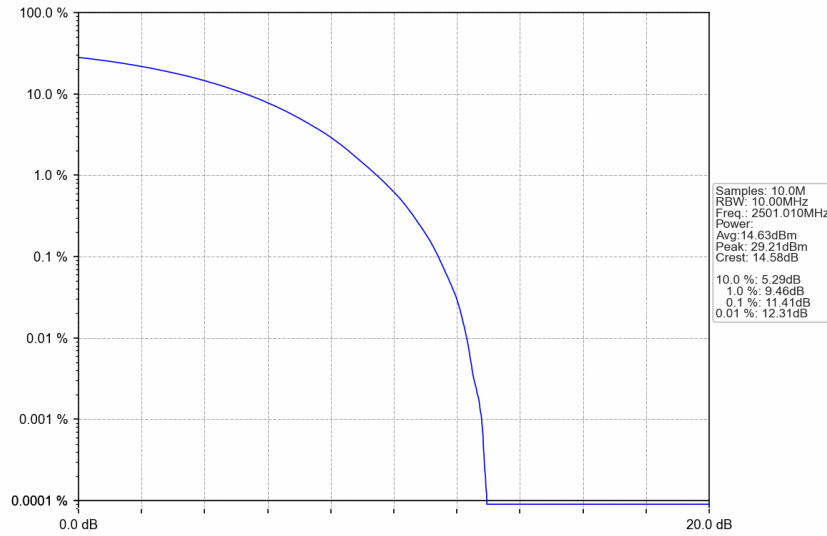
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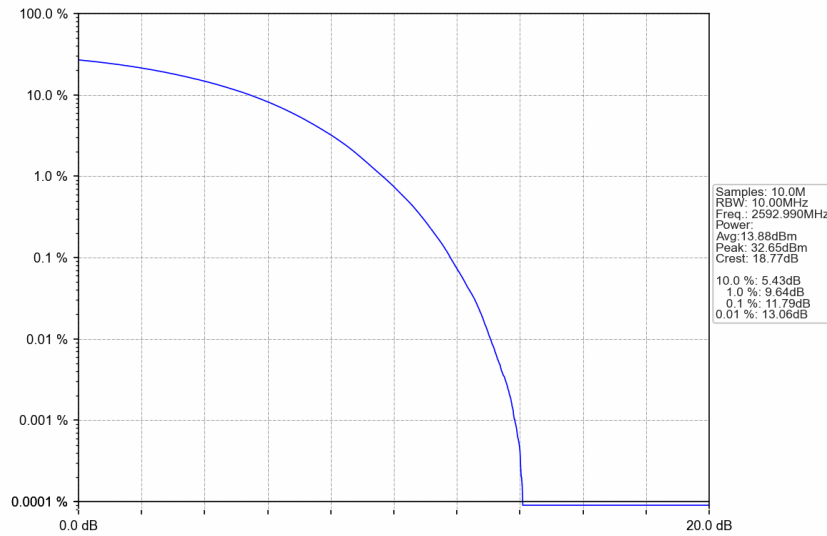
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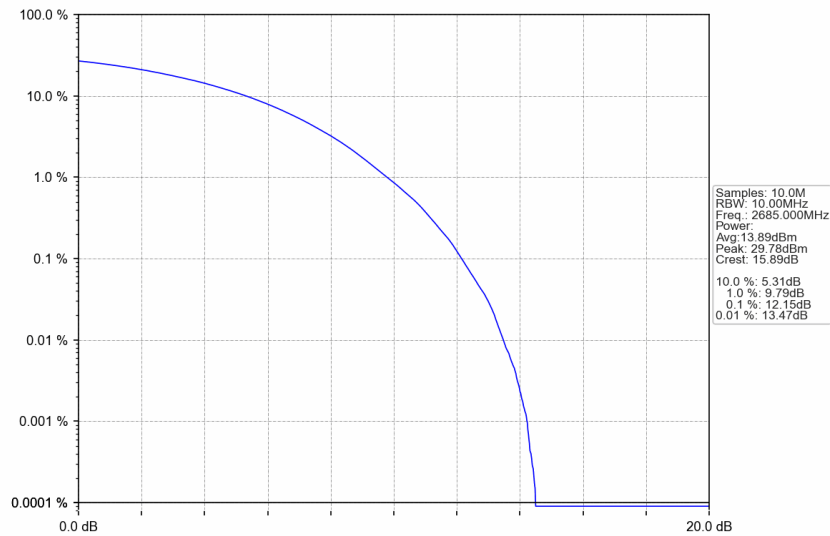


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Rev.: 01

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5.9 30k_SISO_15MHz_NTNV

5.9.1 Test Result

5G NR n41 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	2503.5	Outer_Full	11.67	/	/	<=13	Pass
	2592.99	Outer_Full	10.92	/	/	<=13	Pass
	2682.48	Outer_Full	10.62	/	/	<=13	Pass
DFT-s-OFDM QPSK	2503.5	Outer_Full	11.61	/	/	<=13	Pass
	2592.99	Outer_Full	11.58	/	/	<=13	Pass
	2682.48	Outer_Full	12.01	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2503.5	Outer_Full	12.51	/	/	<=13	Pass
	2592.99	Outer_Full	12.40	/	/	<=13	Pass
	2682.48	Outer_Full	12.73	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2503.5	Outer_Full	12.93	/	/	<=13	Pass
	2592.99	Outer_Full	12.38	/	/	<=13	Pass
	2682.48	Outer_Full	12.38	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2503.5	Outer_Full	12.22	/	/	<=13	Pass
	2592.99	Outer_Full	12.55	/	/	<=13	Pass
	2682.48	Outer_Full	12.84	/	/	<=13	Pass
CP-OFDM QPSK	2503.5	Outer_Full	11.84	/	/	<=13	Pass
	2592.99	Outer_Full	12.09	/	/	<=13	Pass
	2682.48	Outer_Full	11.76	/	/	<=13	Pass
CP-OFDM 16 QAM	2503.5	Outer_Full	11.62	/	/	<=13	Pass
	2592.99	Outer_Full	11.98	/	/	<=13	Pass
	2682.48	Outer_Full	11.48	/	/	<=13	Pass
CP-OFDM 64 QAM	2503.5	Outer_Full	11.75	/	/	<=13	Pass
	2592.99	Outer_Full	12.15	/	/	<=13	Pass
	2682.48	Outer_Full	12.07	/	/	<=13	Pass
CP-OFDM 256 QAM	2503.5	Outer_Full	11.47	/	/	<=13	Pass
	2592.99	Outer_Full	11.60	/	/	<=13	Pass
	2682.48	Outer_Full	11.29	/	/	<=13	Pass

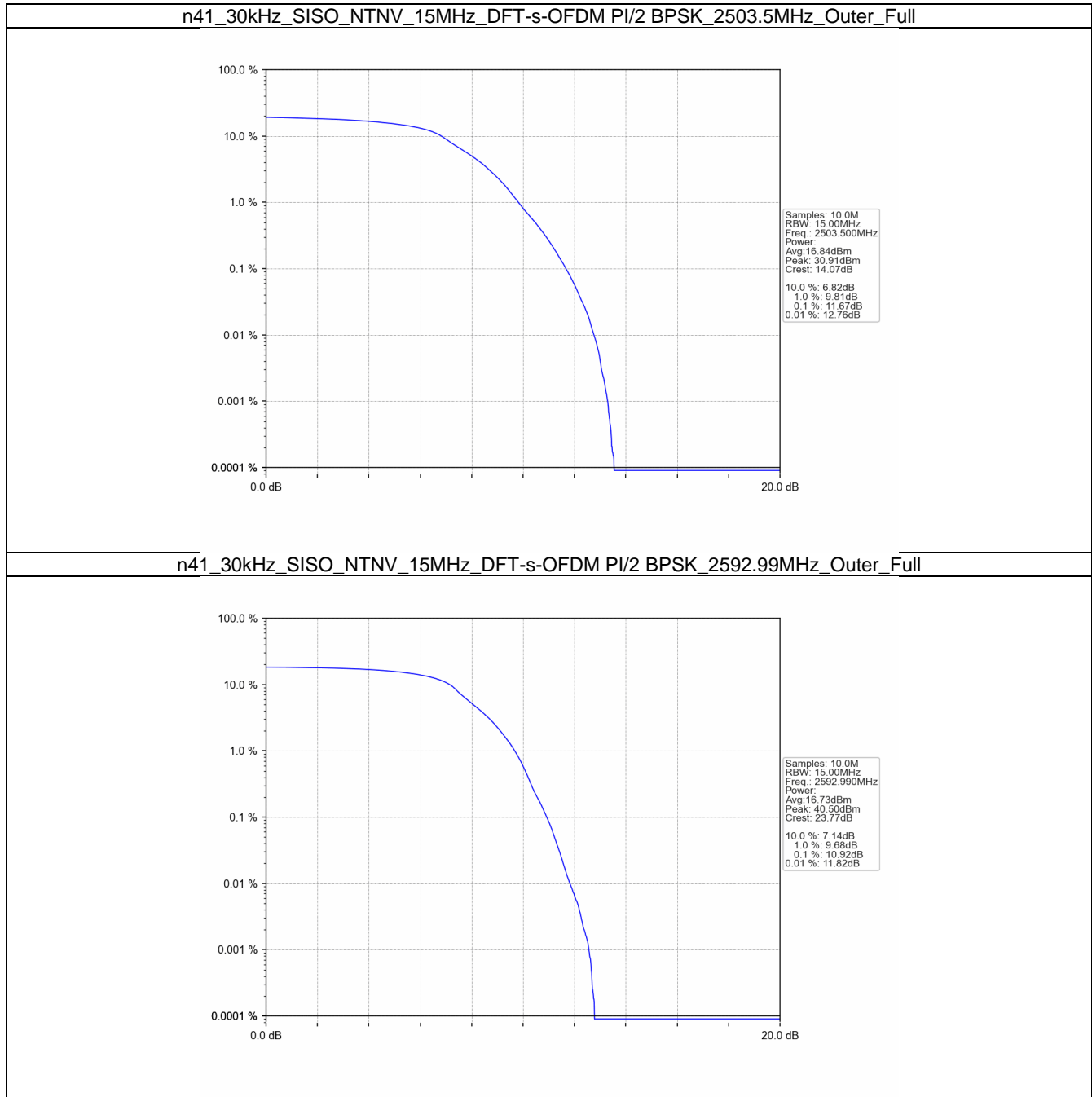


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5.9.2 Test Graph

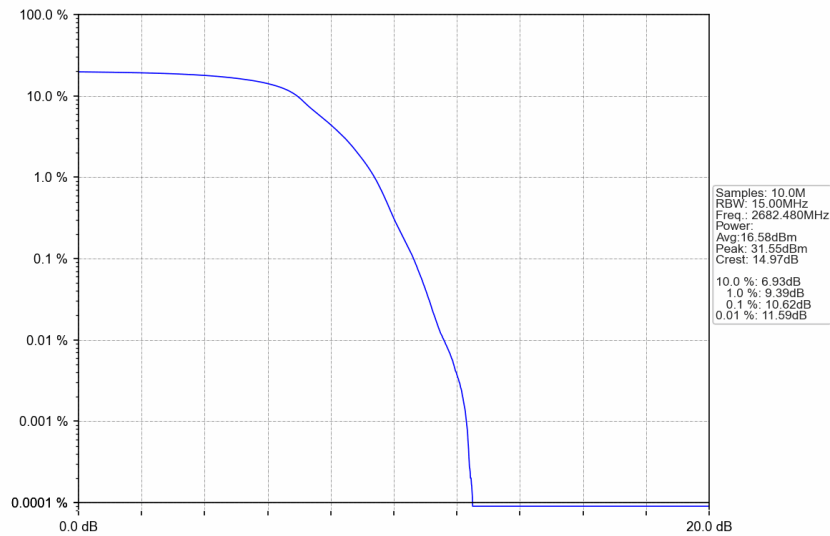


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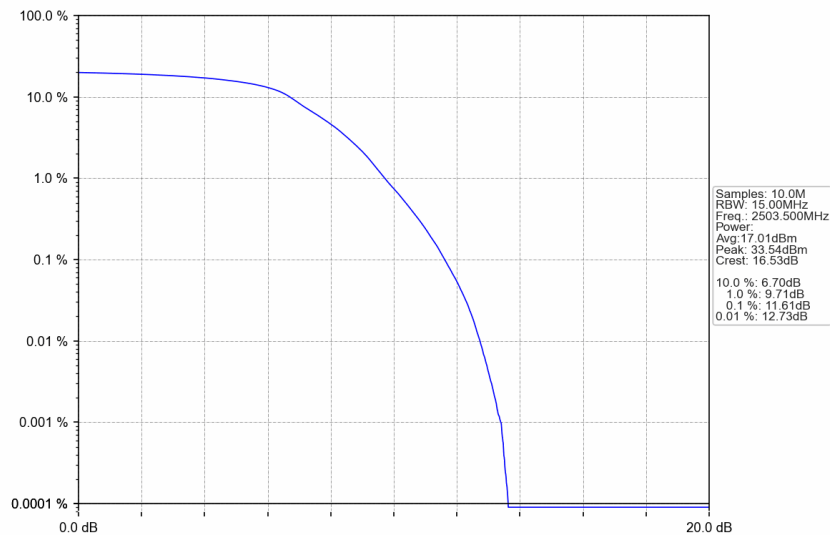
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n41_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_2503.5MHz_Outer_Full



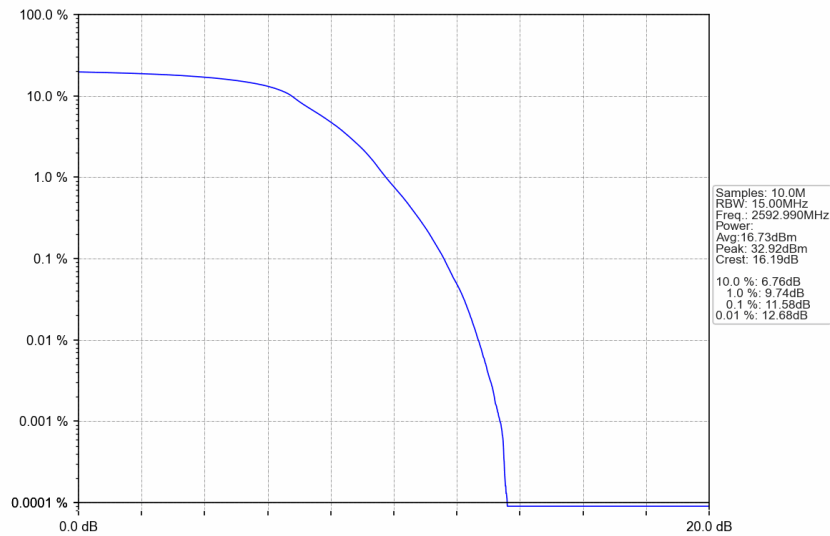
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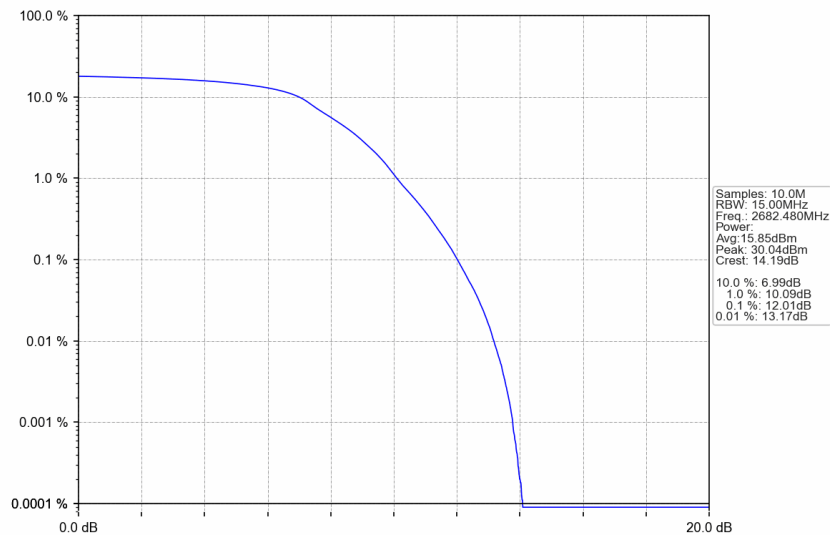
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n41_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_2682.48MHz_Outer_Full



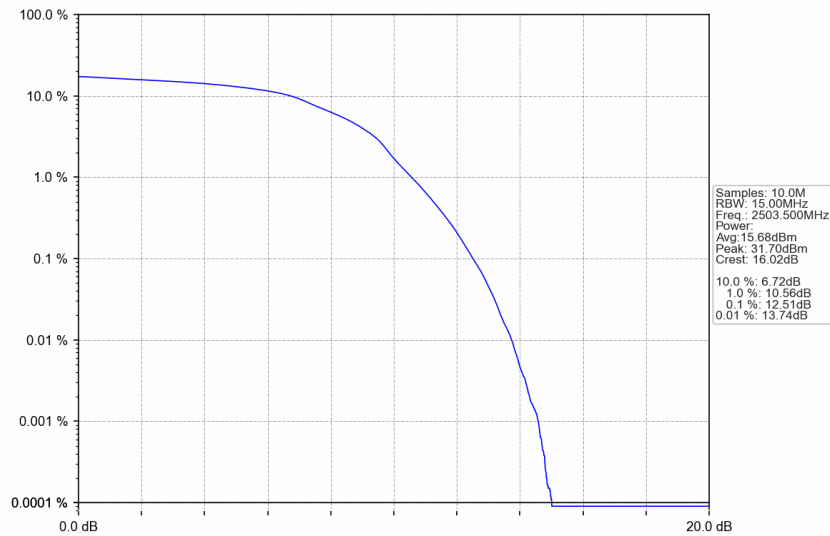
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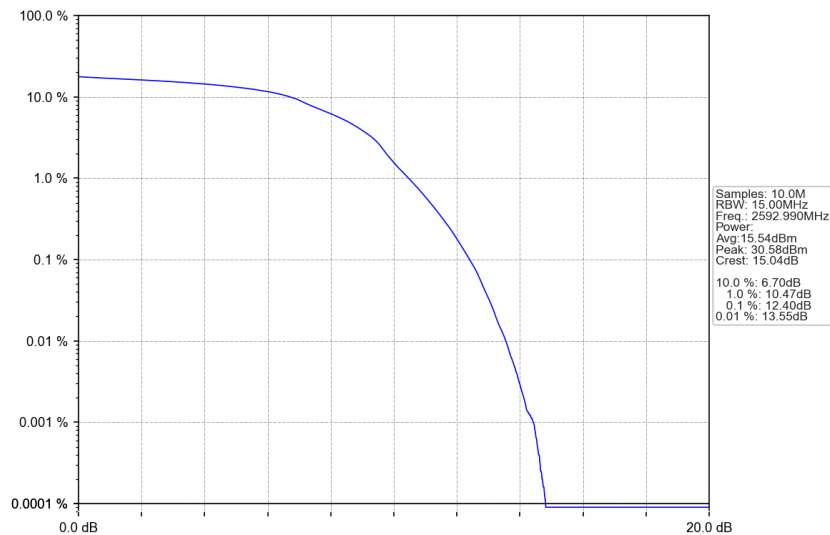
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n41_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_2592.99MHz_Outer_Full



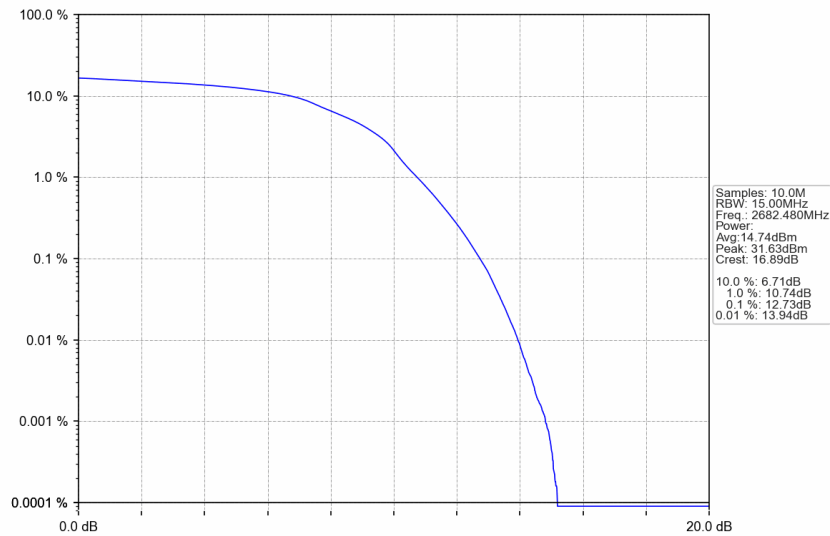
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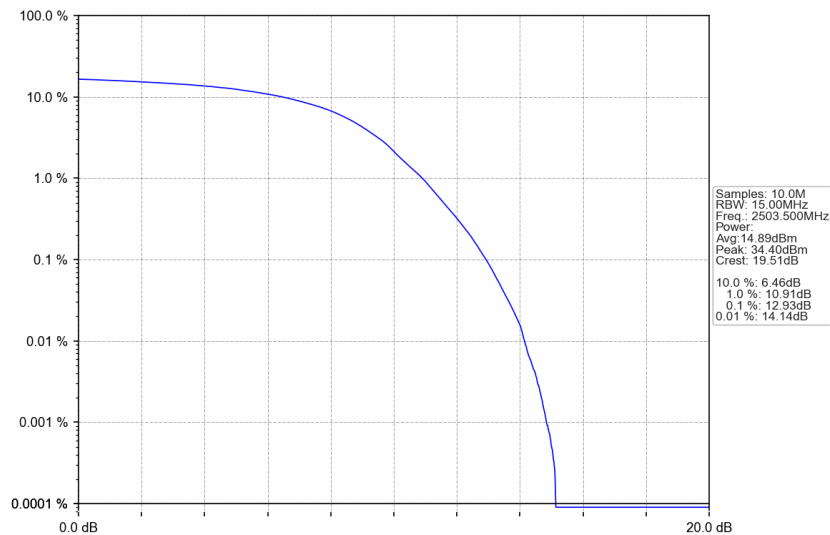
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n41_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_2503.5MHz_Outer_Full



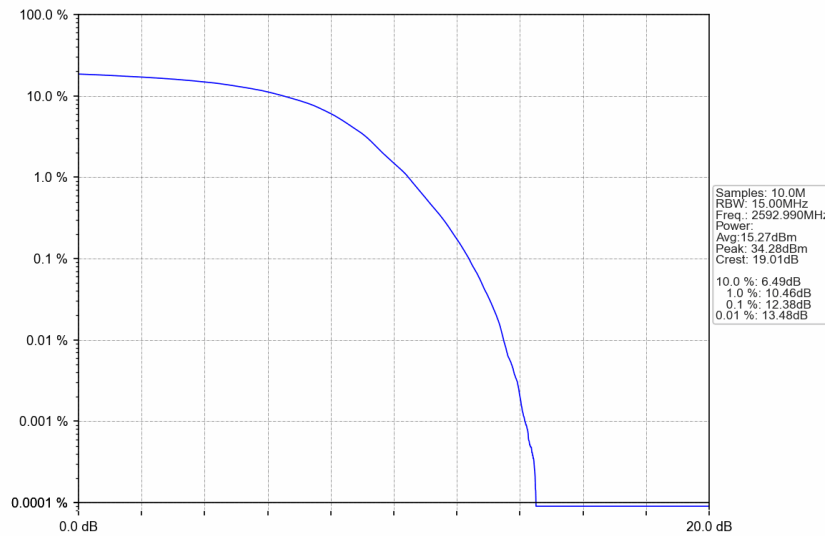
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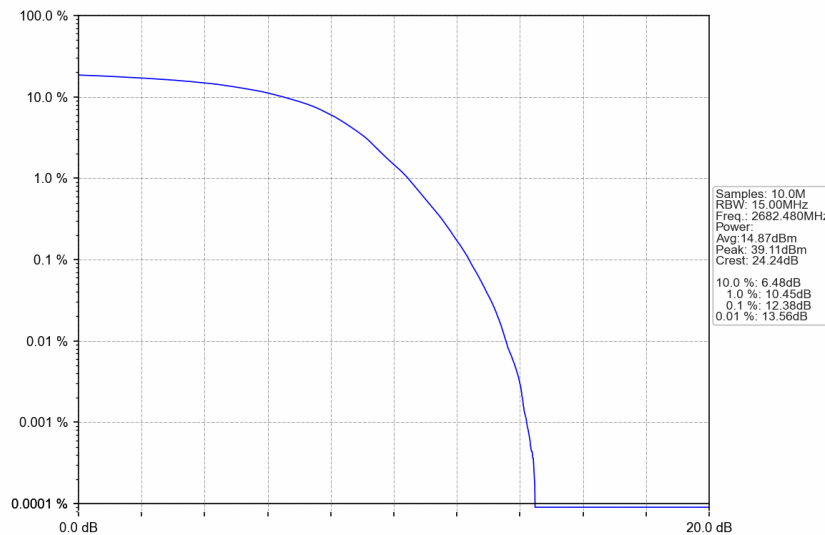
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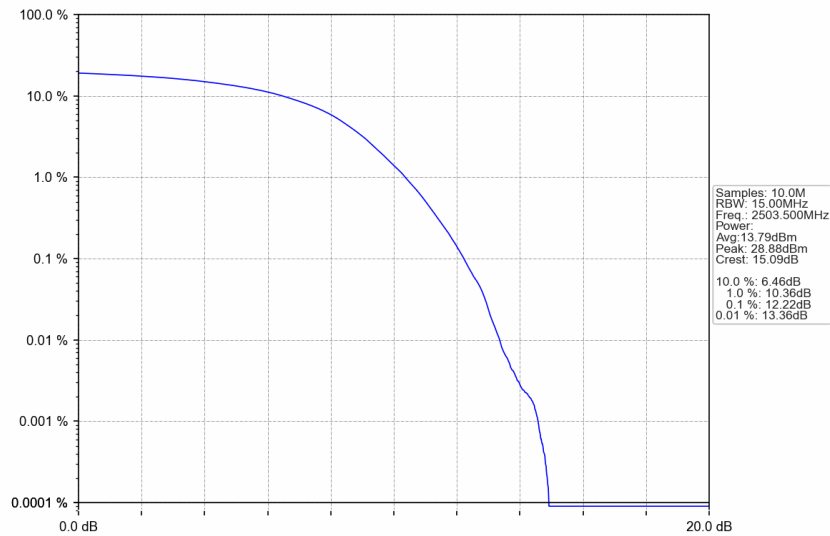
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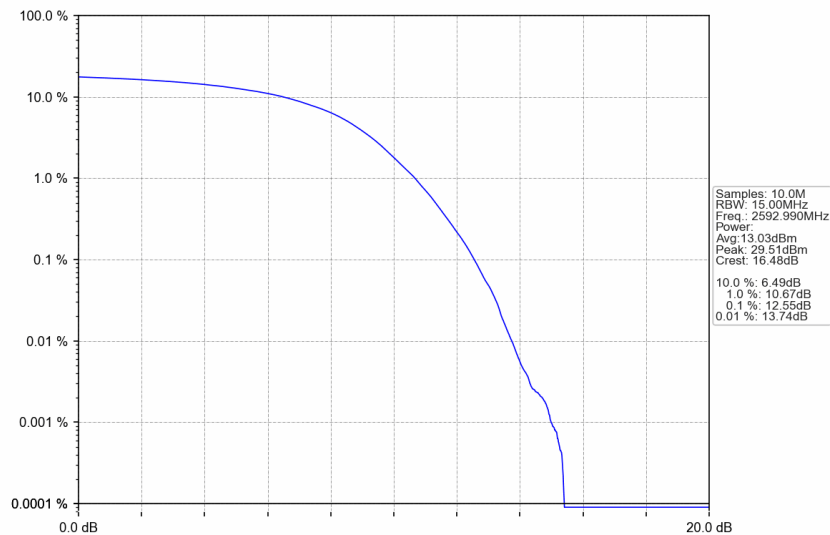
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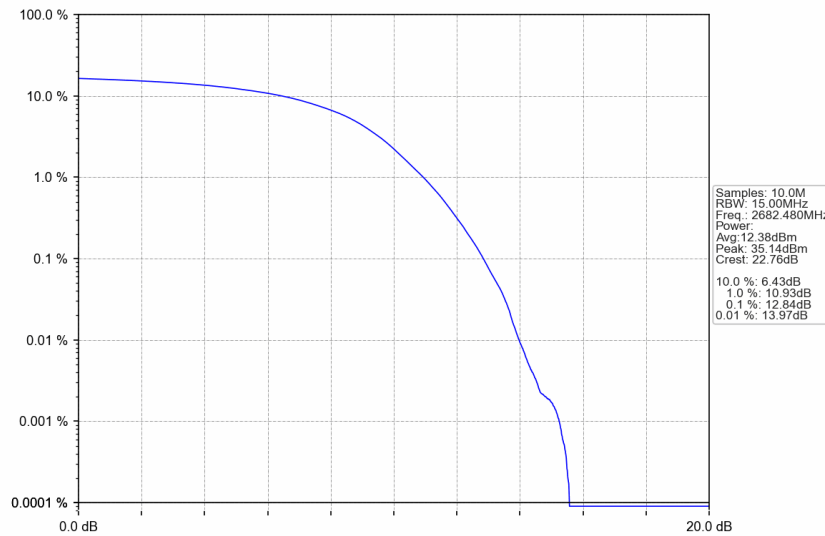
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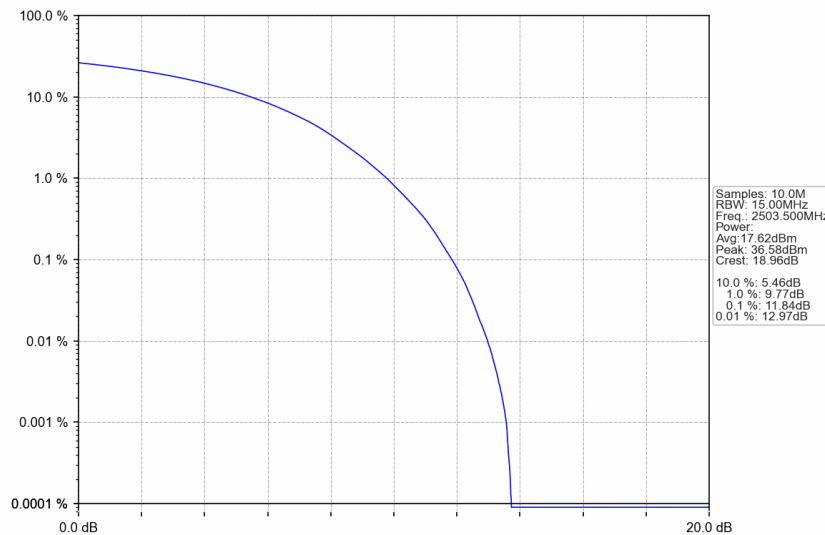
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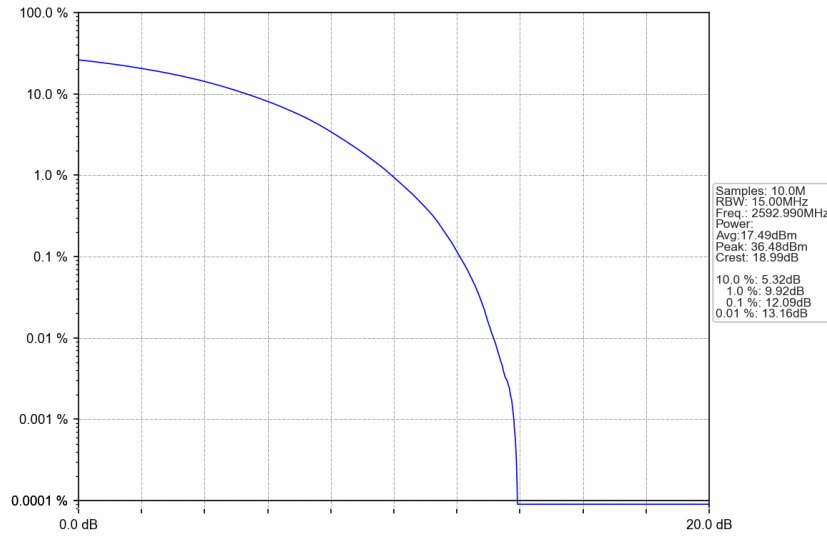
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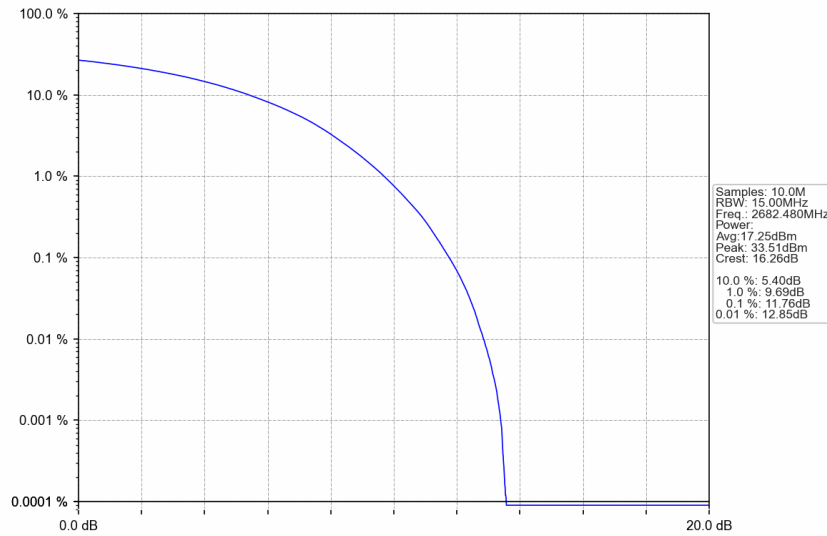
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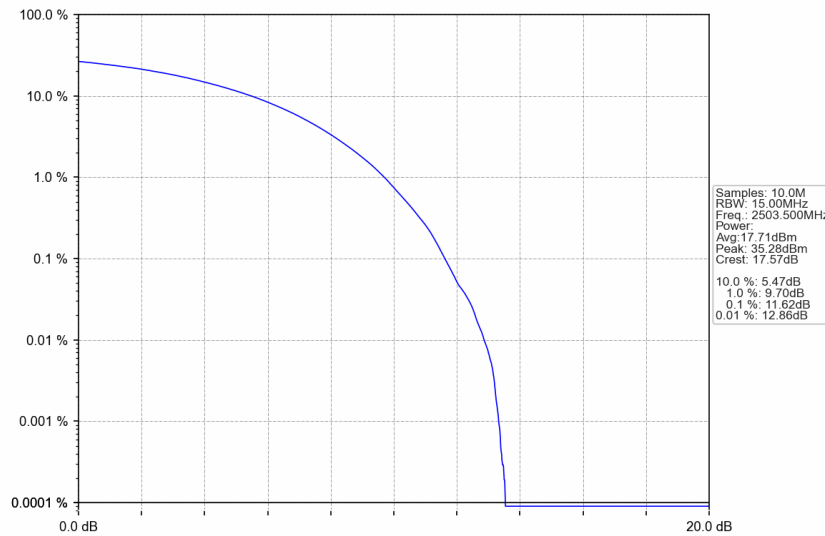


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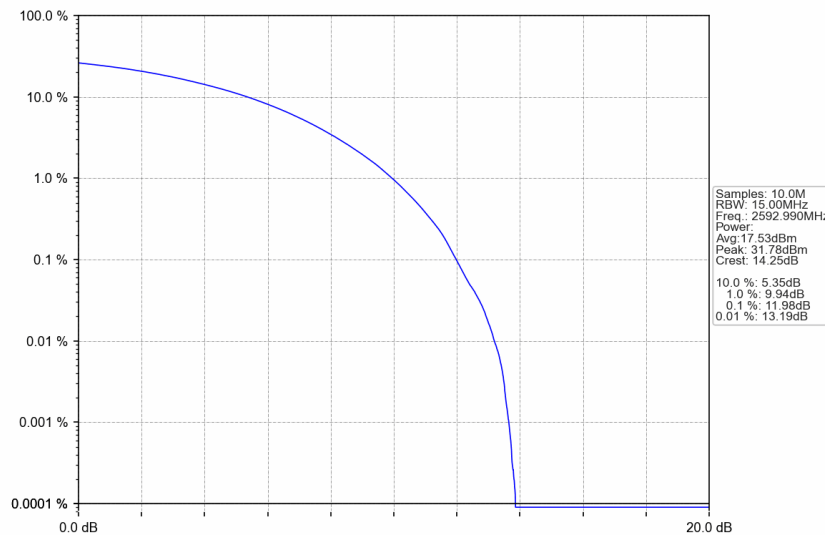
Rev.: 01

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n41_30kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_2503.5MHz_Outer_Full



n41_30kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_2592.99MHz_Outer_Full



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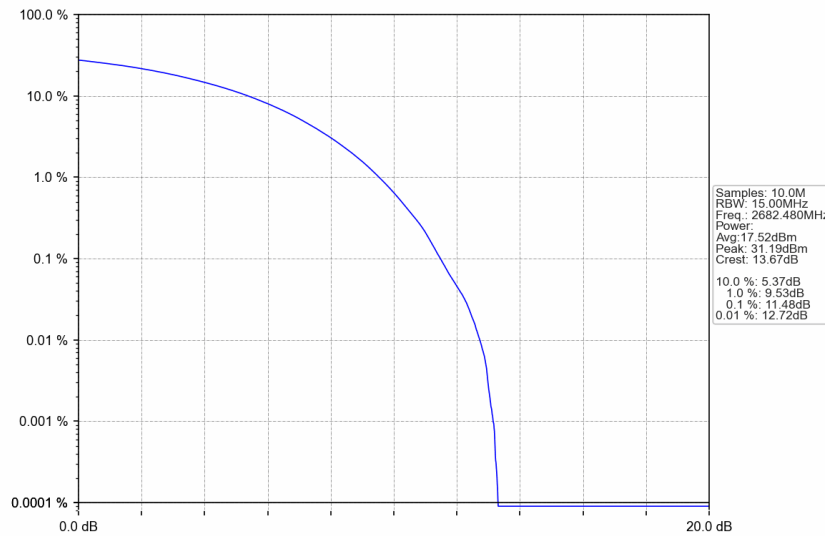
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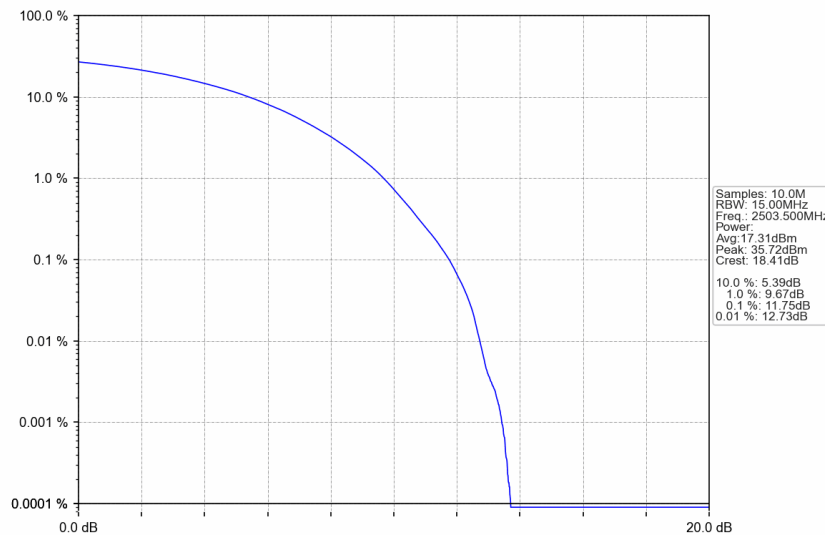
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n41_30kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_2682.48MHz_Outer_Full



n41_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_2503.5MHz_Outer_Full

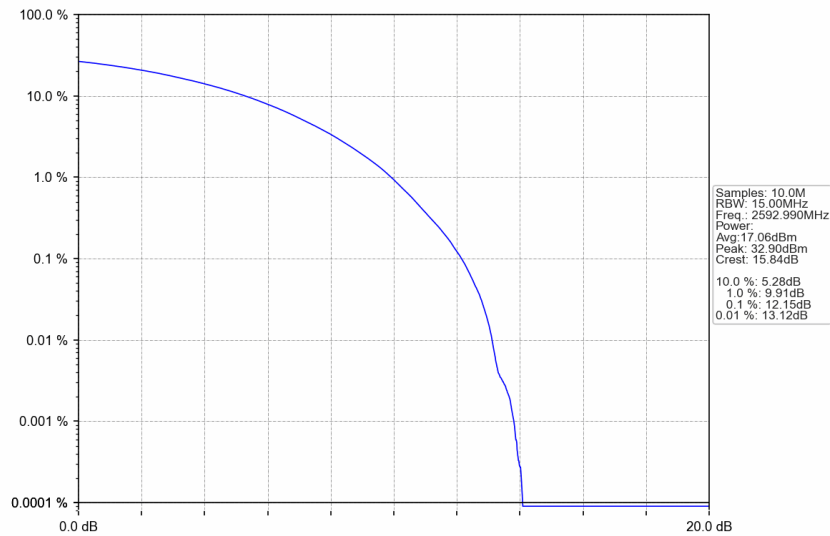


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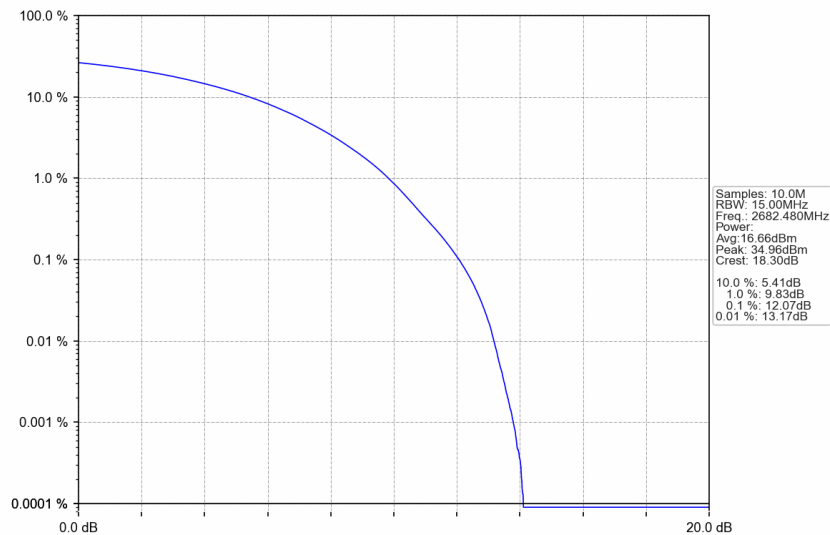
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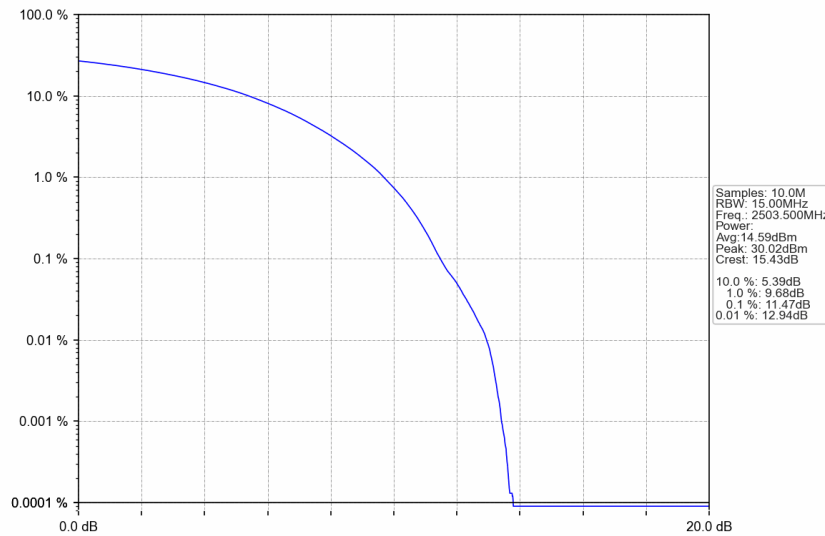


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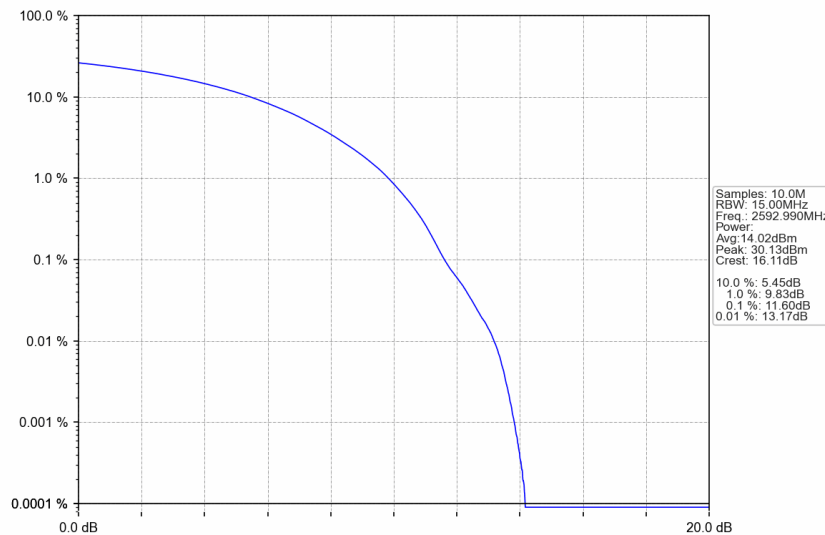
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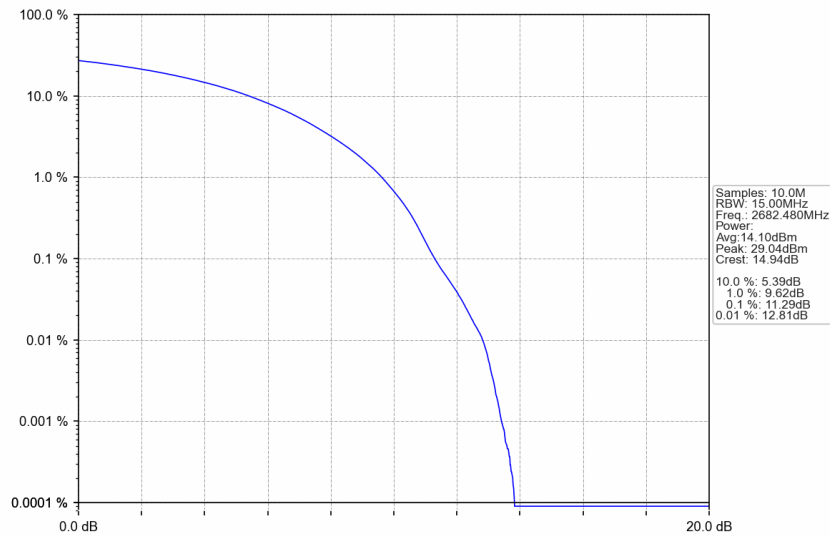


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5.10 30k_SISO_20MHz_NTNV

5.10.1 Test Result

5G NR n41 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	2506.02	Outer_Full	10.63	/	/	<=13	Pass
	2592.99	Outer_Full	10.72	/	/	<=13	Pass
	2679.99	Outer_Full	10.54	/	/	<=13	Pass
DFT-s-OFDM QPSK	2506.02	Outer_Full	11.78	/	/	<=13	Pass
	2592.99	Outer_Full	12.13	/	/	<=13	Pass
	2679.99	Outer_Full	12.15	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2506.02	Outer_Full	12.17	/	/	<=13	Pass
	2592.99	Outer_Full	11.92	/	/	<=13	Pass
	2679.99	Outer_Full	12.38	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2506.02	Outer_Full	12.40	/	/	<=13	Pass
	2592.99	Outer_Full	12.67	/	/	<=13	Pass
	2679.99	Outer_Full	12.60	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2506.02	Outer_Full	12.86	/	/	<=13	Pass
	2592.99	Outer_Full	12.98	/	/	<=13	Pass
	2679.99	Outer_Full	12.94	/	/	<=13	Pass
CP-OFDM QPSK	2506.02	Outer_Full	11.86	/	/	<=13	Pass
	2592.99	Outer_Full	11.95	/	/	<=13	Pass
	2679.99	Outer_Full	12.16	/	/	<=13	Pass
CP-OFDM 16 QAM	2506.02	Outer_Full	11.83	/	/	<=13	Pass
	2592.99	Outer_Full	12.05	/	/	<=13	Pass
	2679.99	Outer_Full	12.02	/	/	<=13	Pass
CP-OFDM 64 QAM	2506.02	Outer_Full	12.16	/	/	<=13	Pass
	2592.99	Outer_Full	11.38	/	/	<=13	Pass
	2679.99	Outer_Full	11.96	/	/	<=13	Pass
CP-OFDM 256 QAM	2506.02	Outer_Full	11.77	/	/	<=13	Pass
	2592.99	Outer_Full	11.97	/	/	<=13	Pass
	2679.99	Outer_Full	11.61	/	/	<=13	Pass

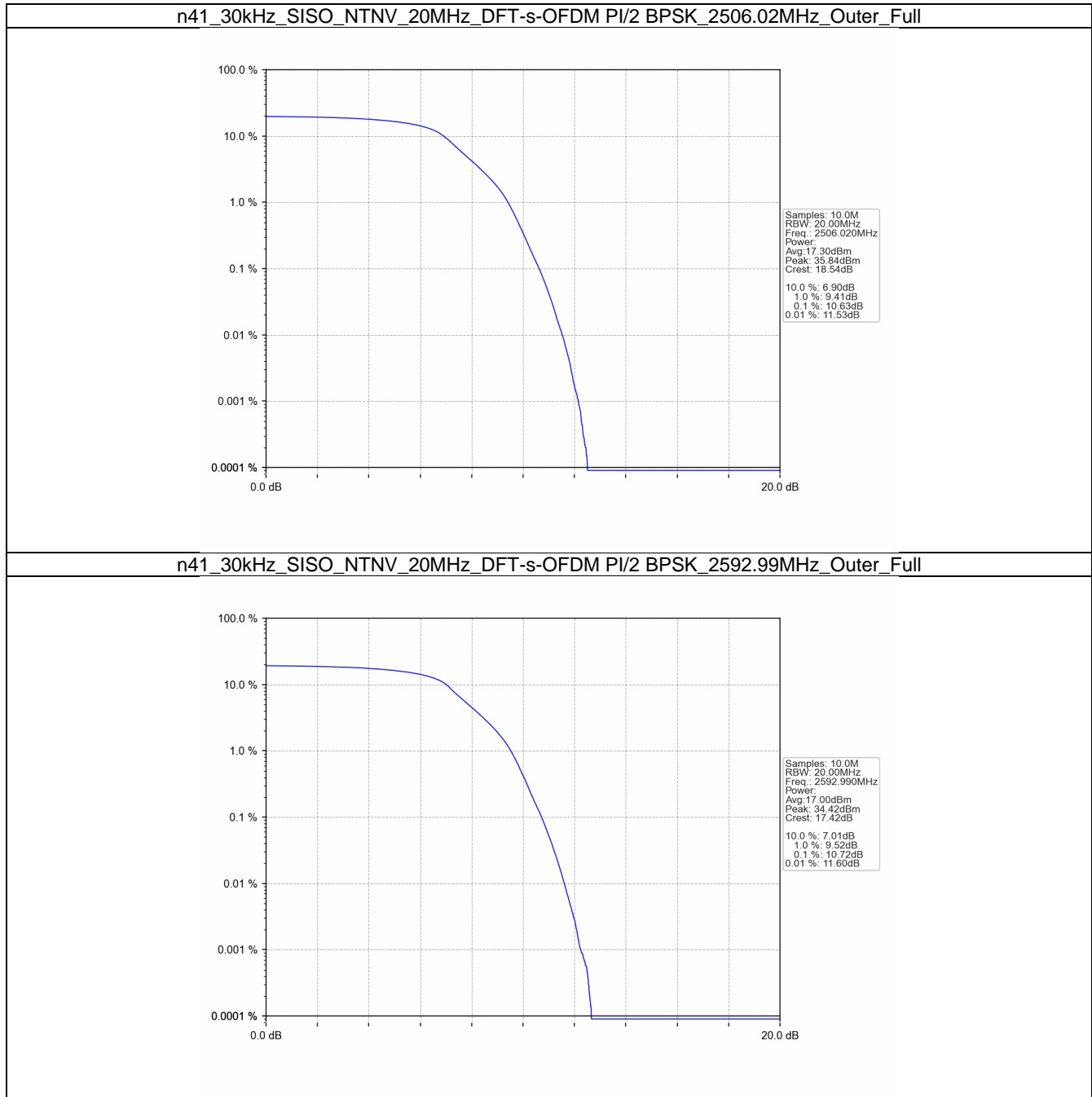


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5.10.2 Test Graph

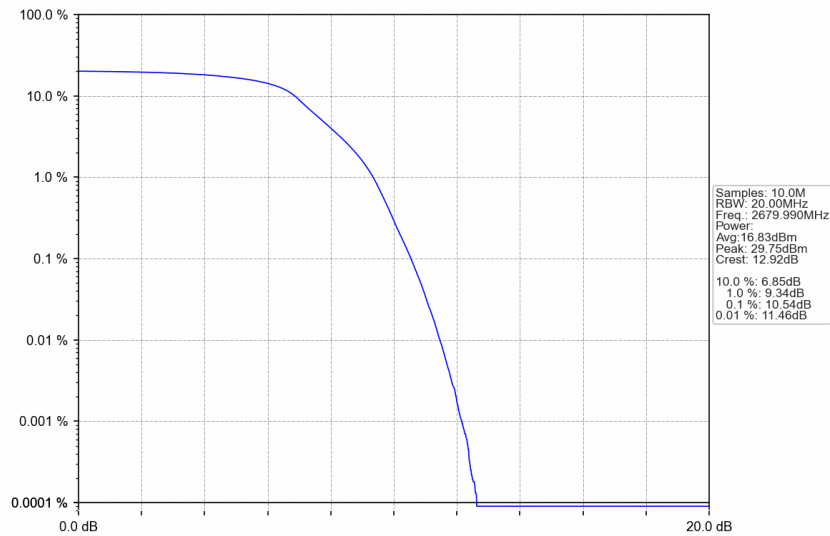


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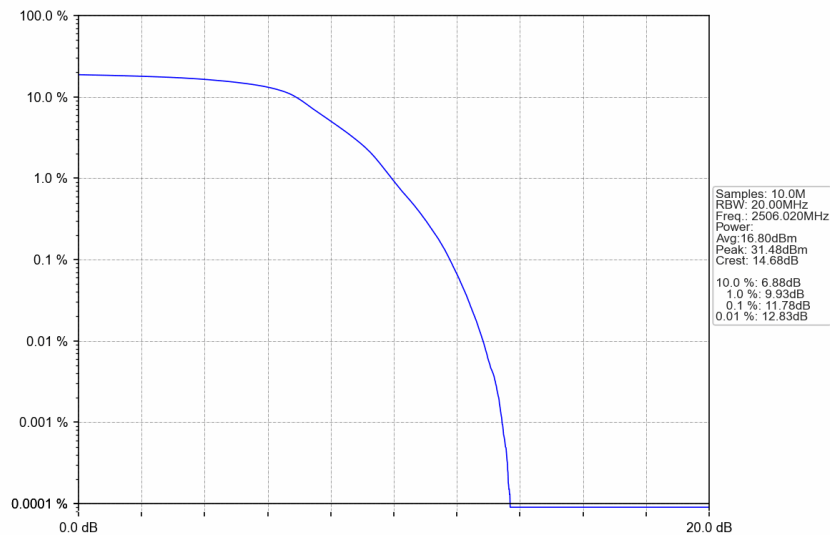
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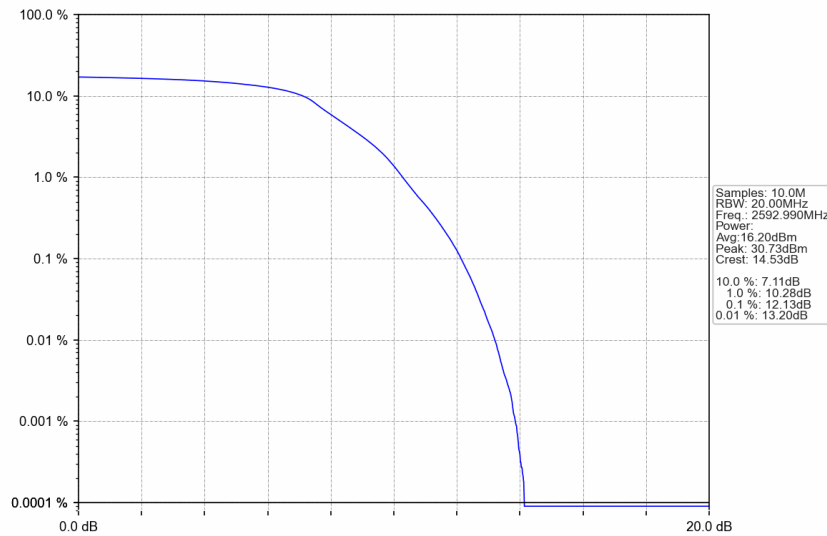


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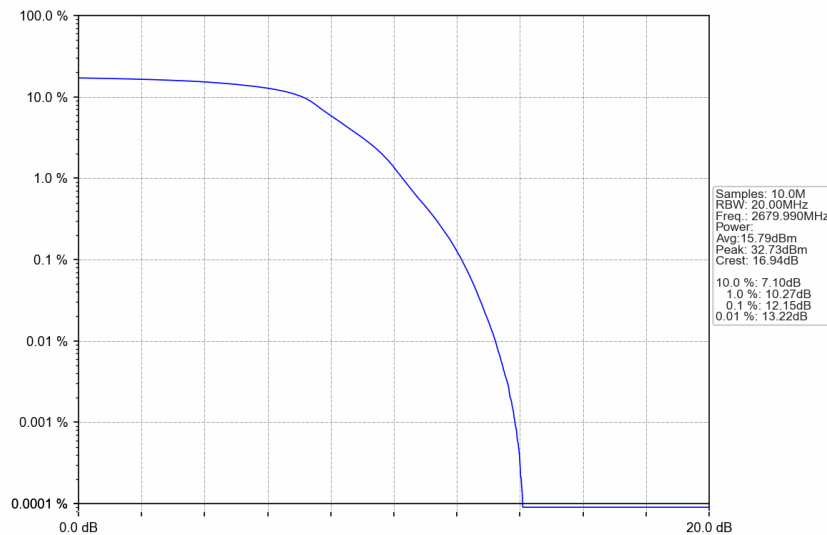
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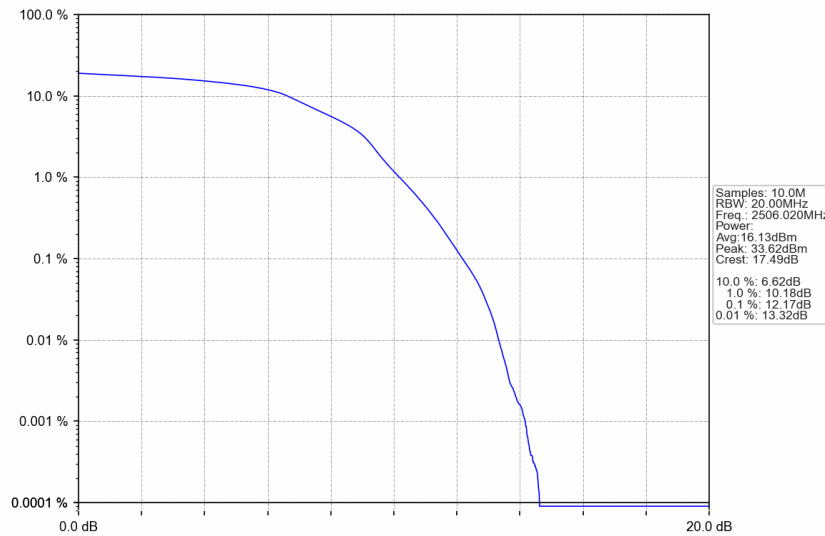
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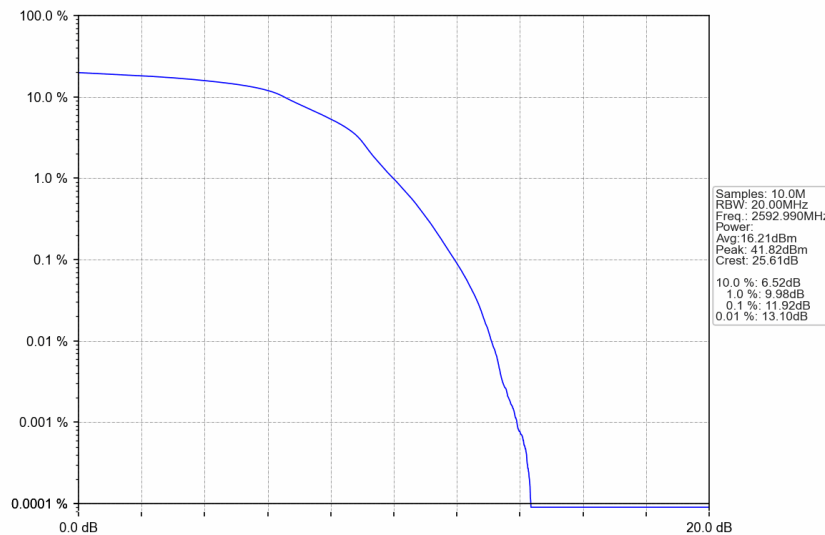
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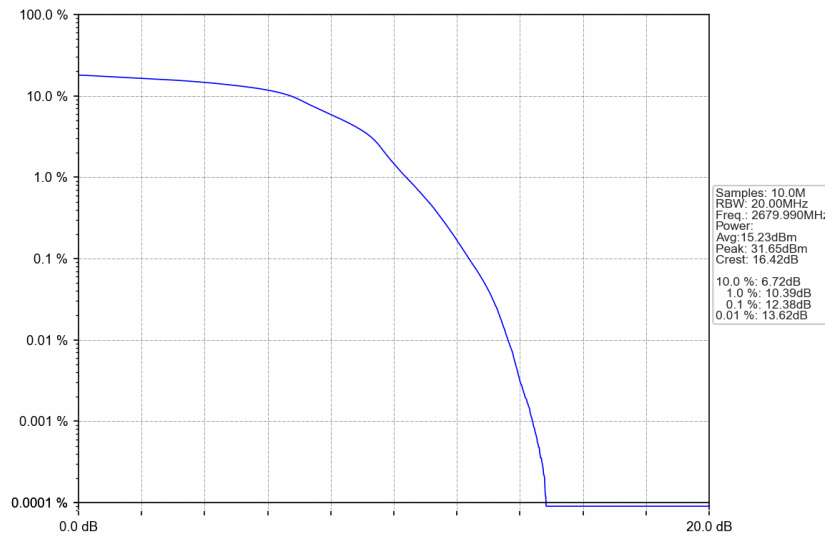
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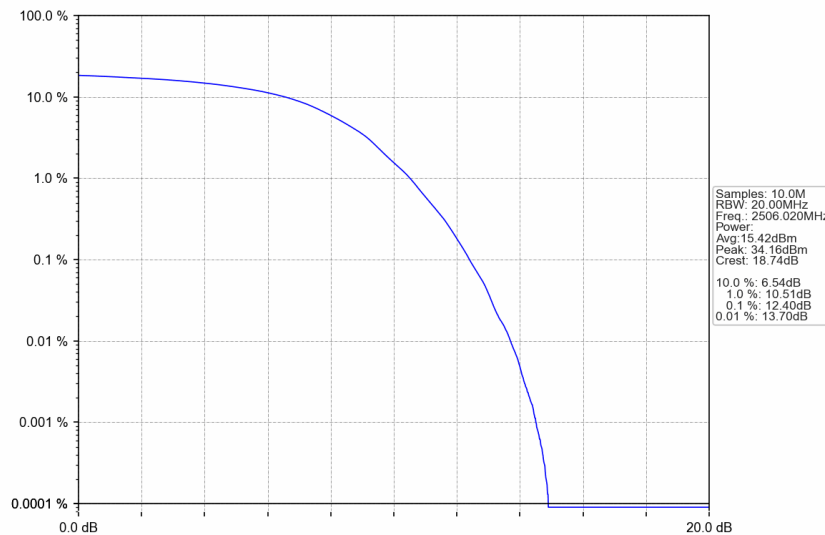
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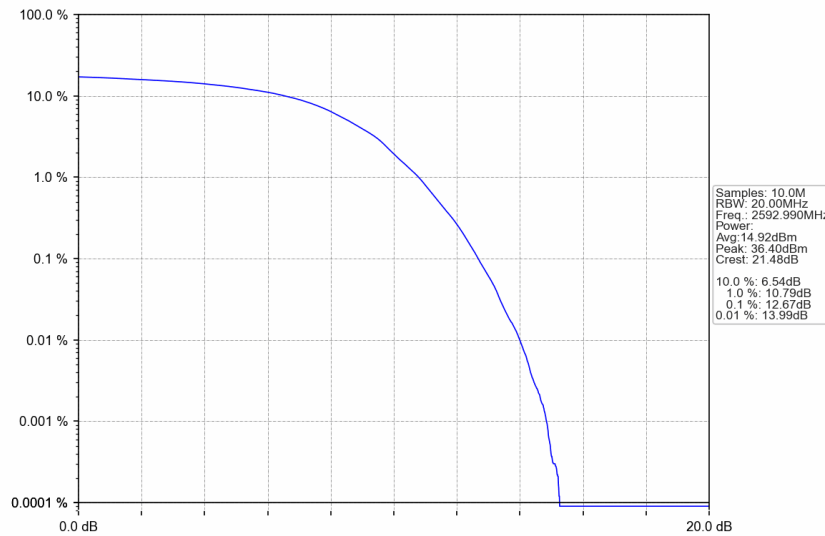
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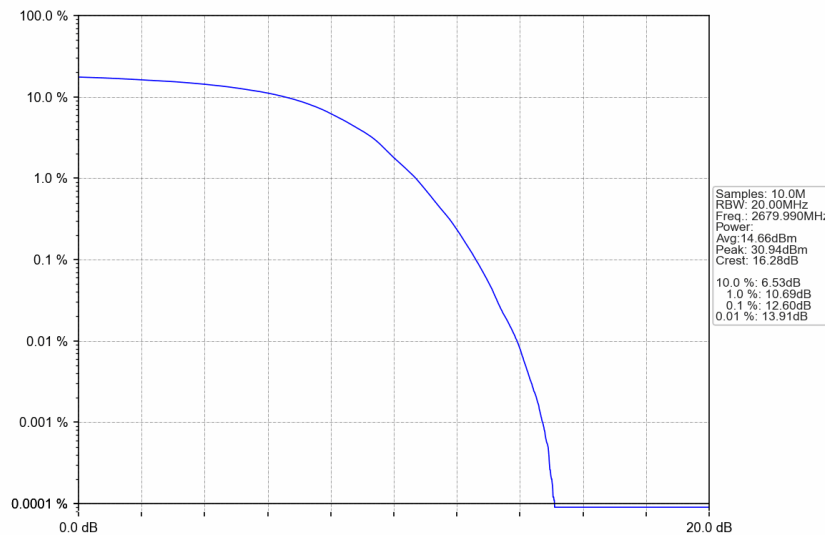
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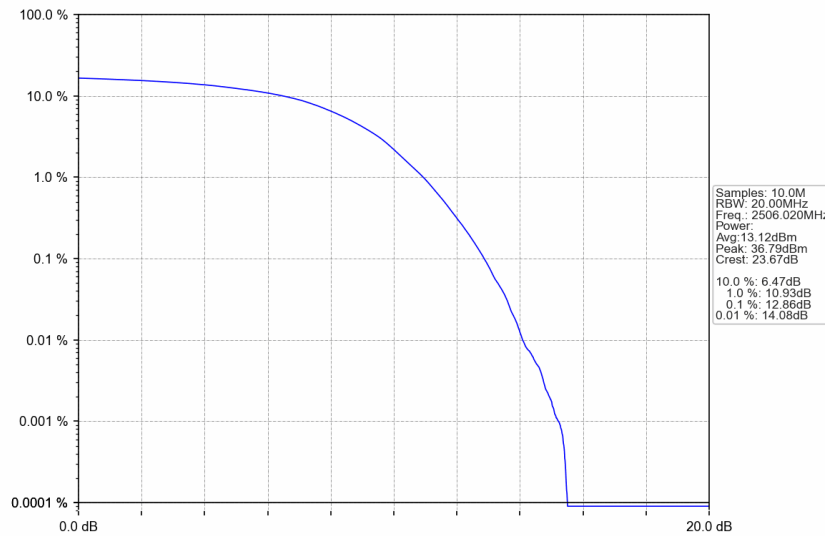


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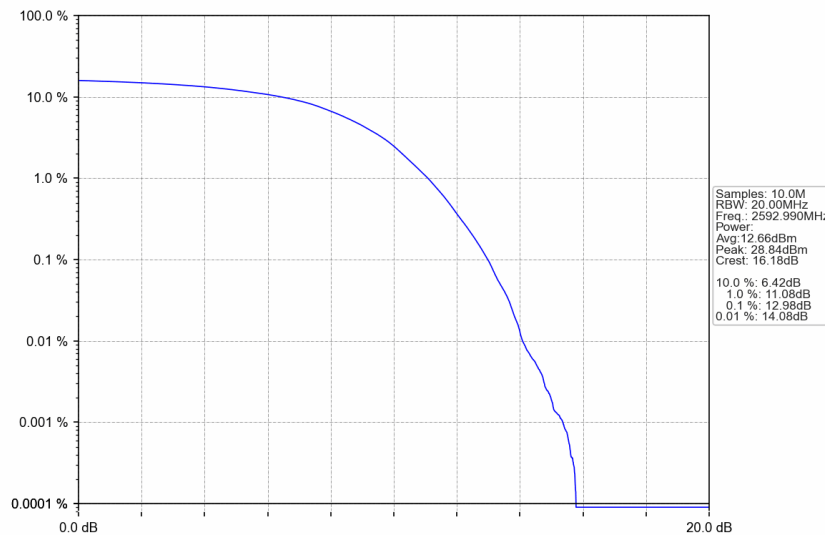
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n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_2506.02MHz_Outer_Full



n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_2592.99MHz_Outer_Full



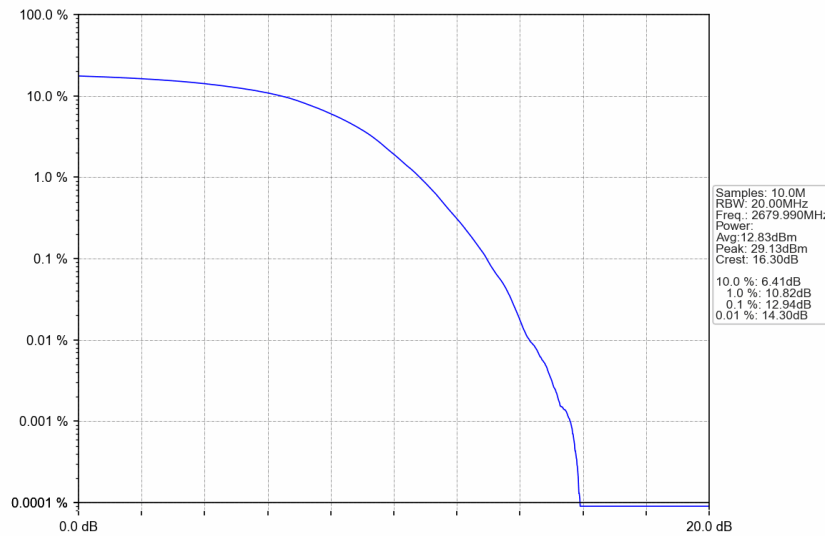
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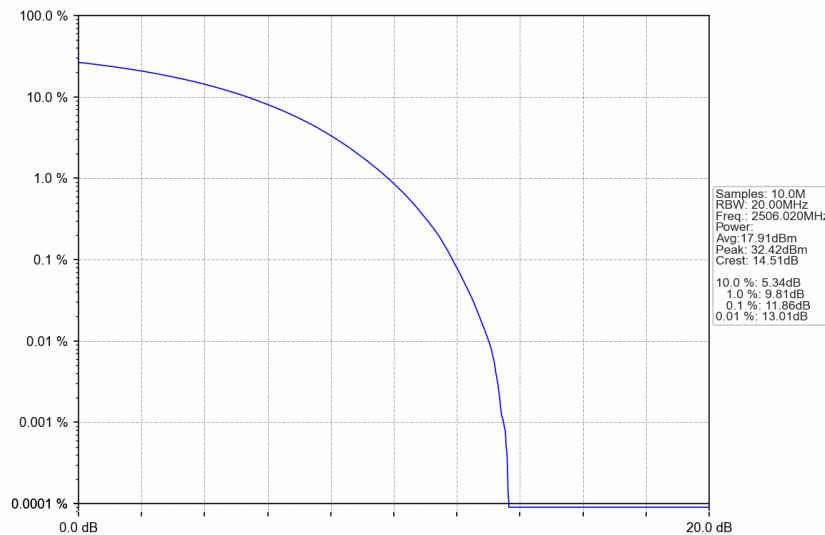
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n41_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2506.02MHz_Outer_Full

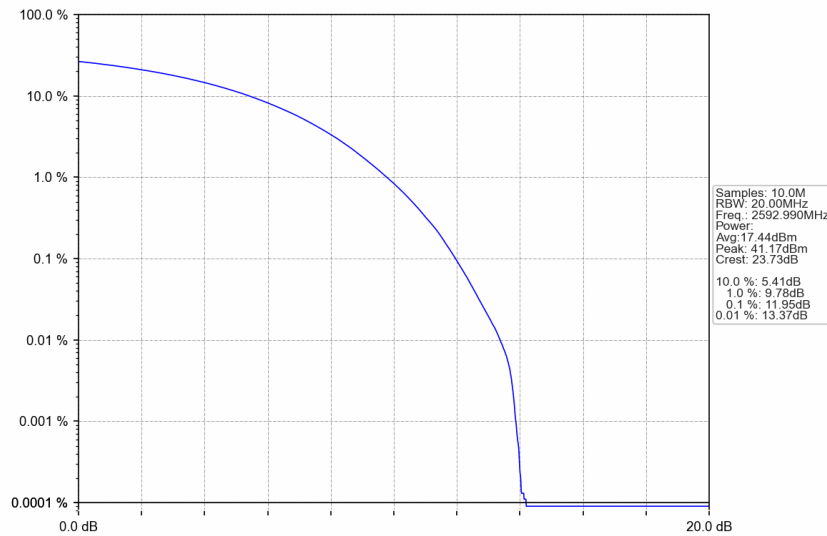


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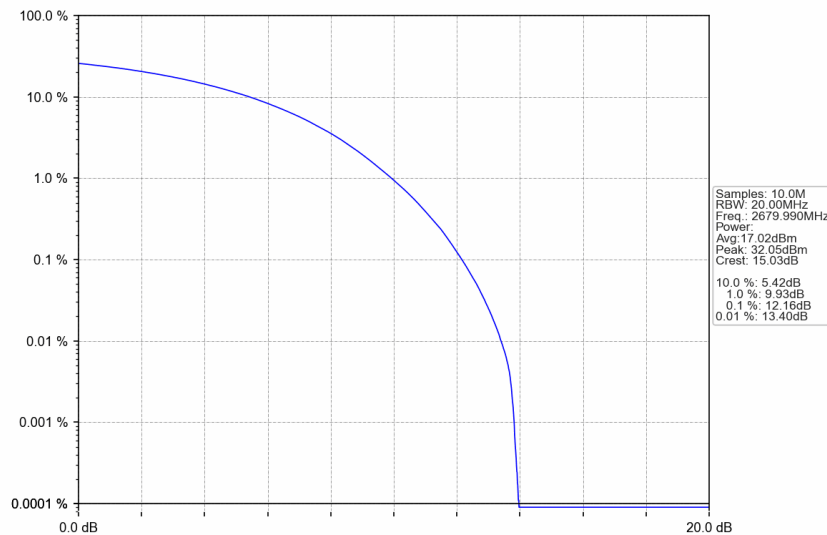
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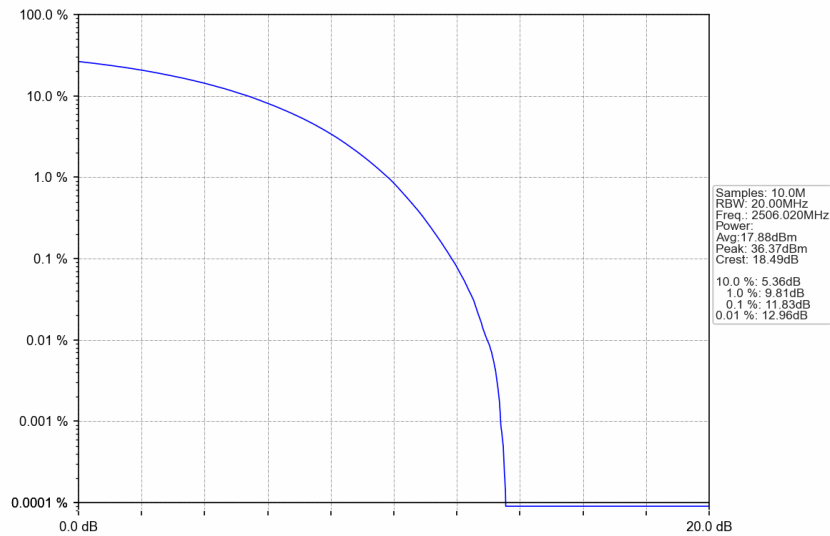


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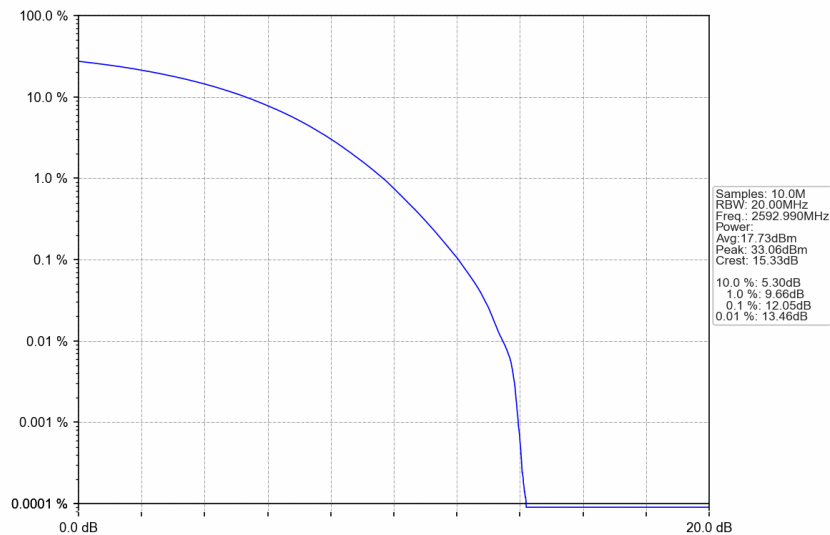
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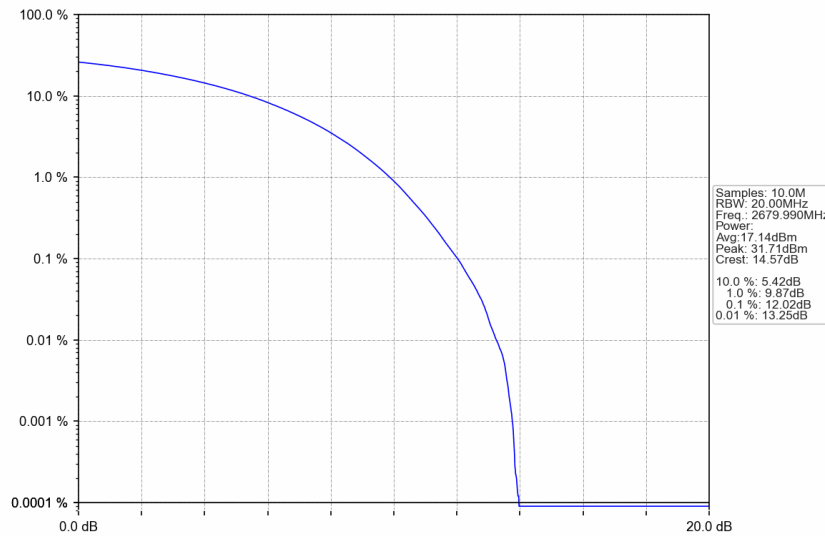
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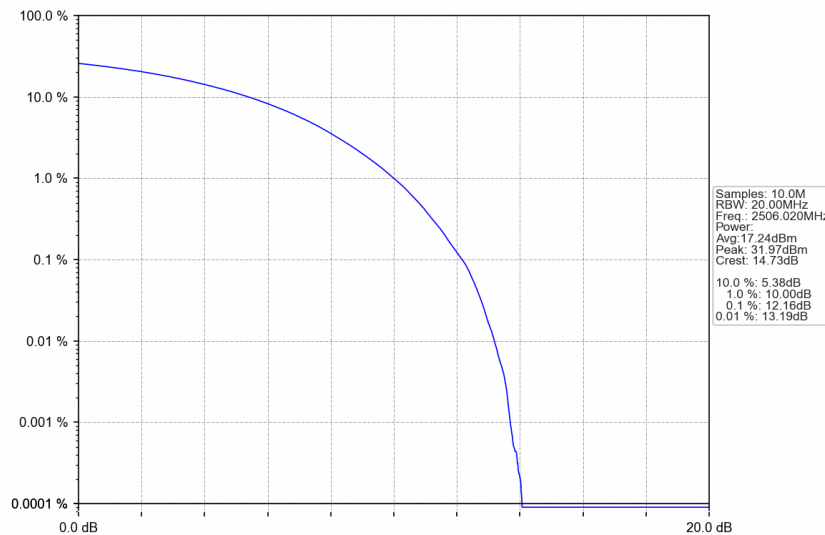
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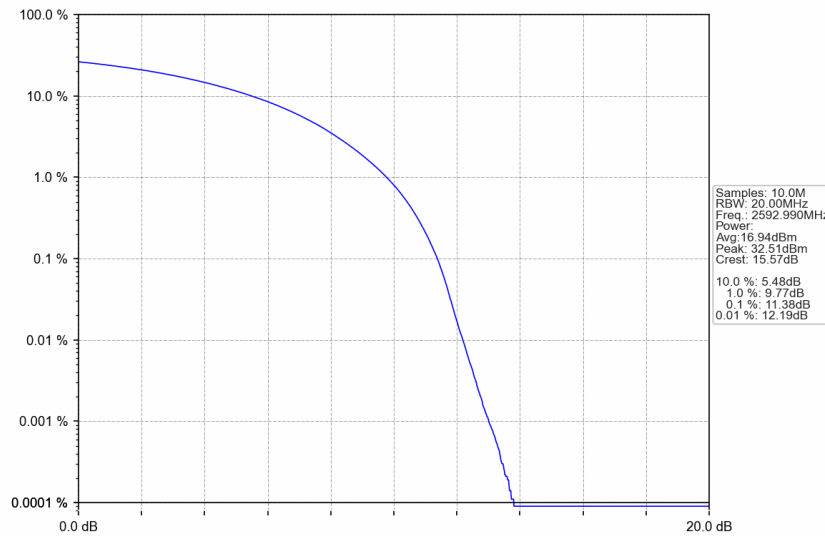
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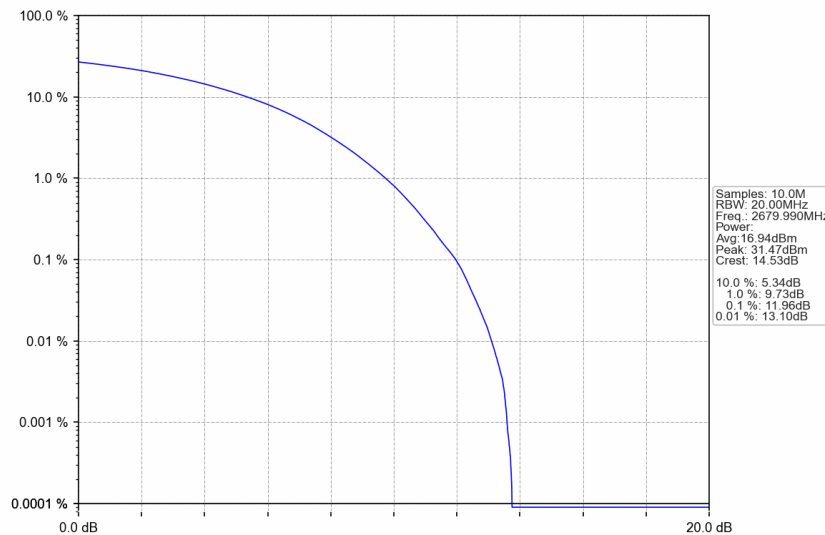
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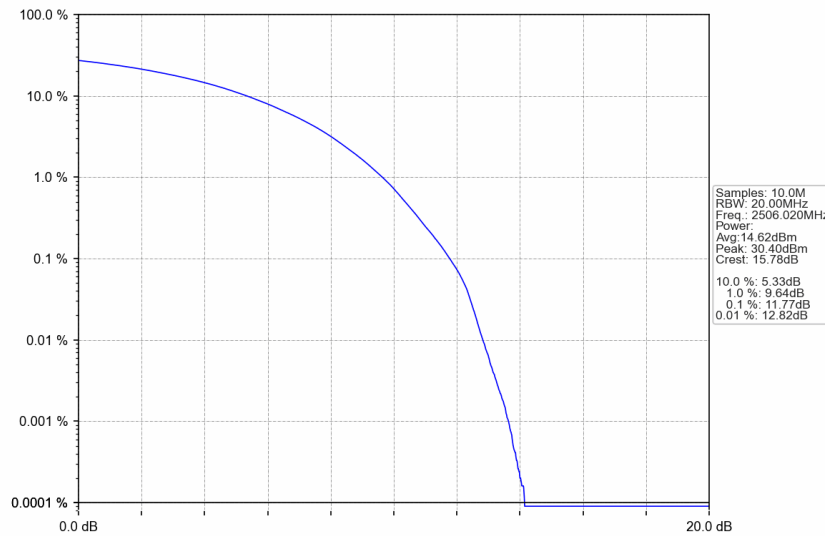


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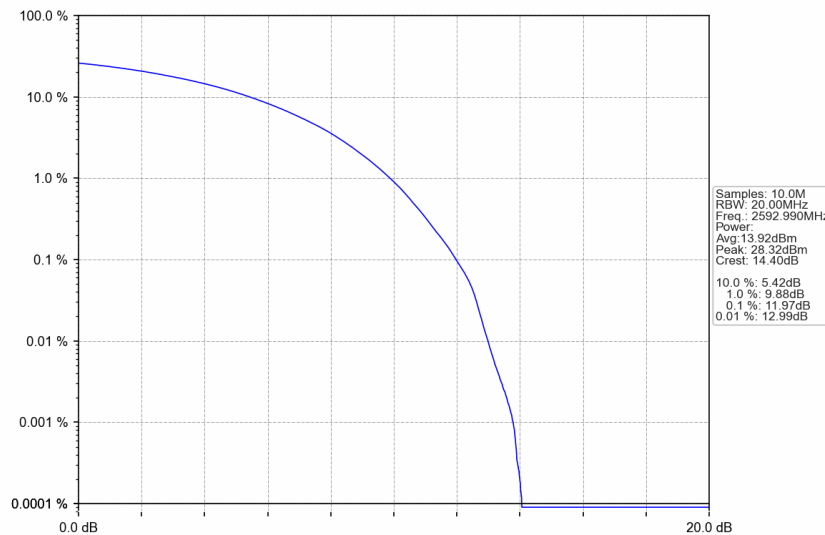
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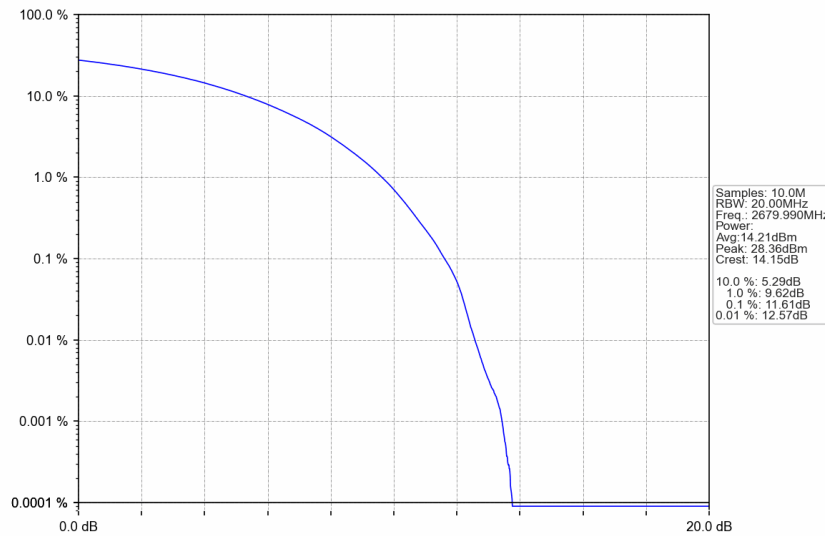


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Rev.: 01

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5.11 30k_SISO_25MHz_NTNV

5.11.1 Test Result

5G NR n41 SCS=30kHz SISO 25MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2508.51	Outer_Full	11.37	/	/	<=13	Pass
	2592.99	Outer_Full	10.14	/	/	<=13	Pass
	2677.5	Outer_Full	10.08	/	/	<=13	Pass
DFT-s-OFDM QPSK	2508.51	Outer_Full	11.21	/	/	<=13	Pass
	2592.99	Outer_Full	11.84	/	/	<=13	Pass
	2677.5	Outer_Full	11.72	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2508.51	Outer_Full	12.62	/	/	<=13	Pass
	2592.99	Outer_Full	12.22	/	/	<=13	Pass
	2677.5	Outer_Full	12.61	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2508.51	Outer_Full	12.60	/	/	<=13	Pass
	2592.99	Outer_Full	12.49	/	/	<=13	Pass
	2677.5	Outer_Full	12.57	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2508.51	Outer_Full	12.92	/	/	<=13	Pass
	2592.99	Outer_Full	12.71	/	/	<=13	Pass
	2677.5	Outer_Full	12.46	/	/	<=13	Pass
CP-OFDM QPSK	2508.51	Outer_Full	11.62	/	/	<=13	Pass
	2592.99	Outer_Full	11.75	/	/	<=13	Pass
	2677.5	Outer_Full	11.94	/	/	<=13	Pass
CP-OFDM 16 QAM	2508.51	Outer_Full	11.61	/	/	<=13	Pass
	2592.99	Outer_Full	11.70	/	/	<=13	Pass
	2677.5	Outer_Full	11.62	/	/	<=13	Pass
CP-OFDM 64 QAM	2508.51	Outer_Full	11.80	/	/	<=13	Pass
	2592.99	Outer_Full	11.74	/	/	<=13	Pass
	2677.5	Outer_Full	11.75	/	/	<=13	Pass
CP-OFDM 256 QAM	2508.51	Outer_Full	11.48	/	/	<=13	Pass
	2592.99	Outer_Full	12.00	/	/	<=13	Pass
	2677.5	Outer_Full	11.52	/	/	<=13	Pass

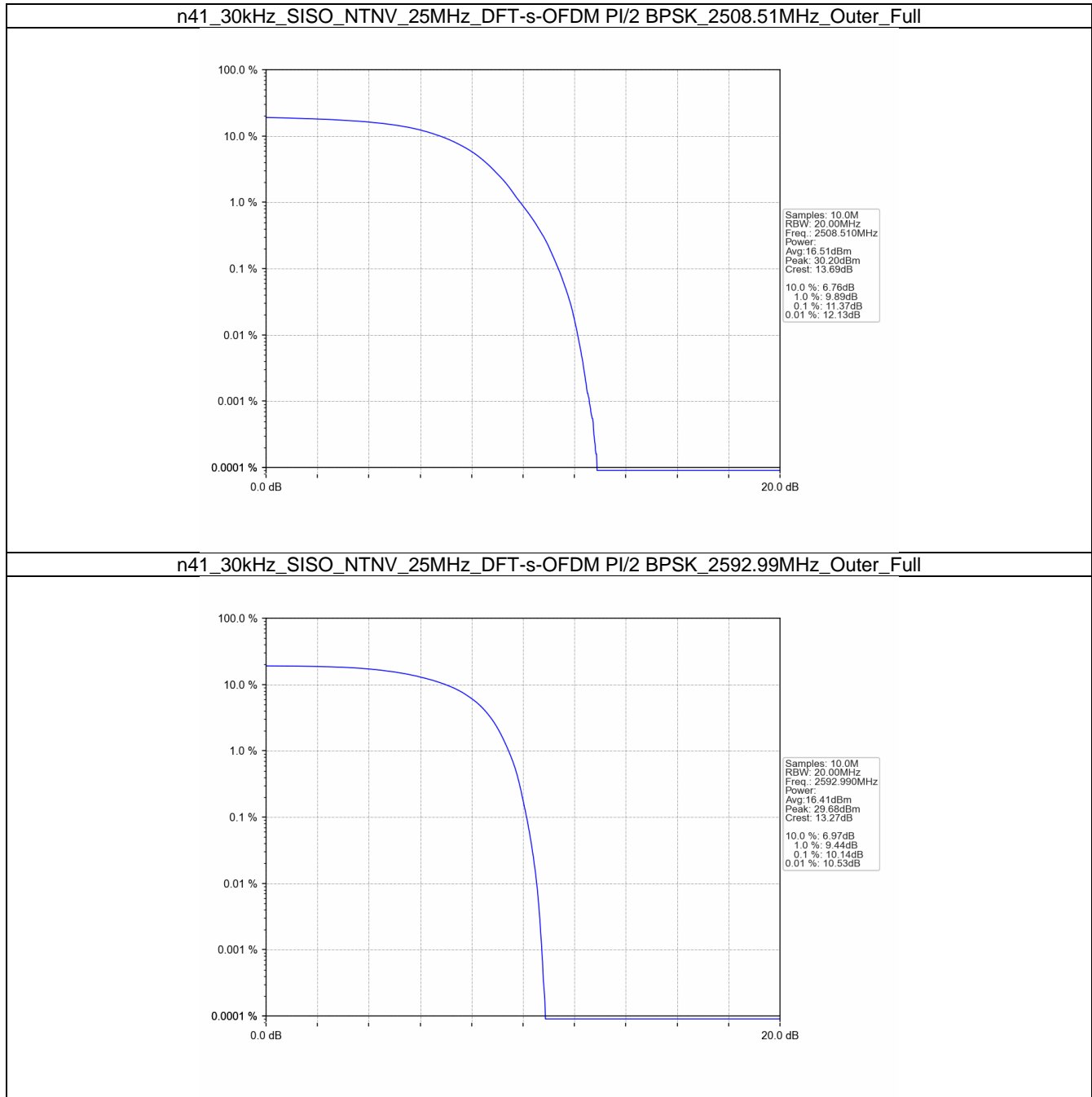


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5.11.2 Test Graph

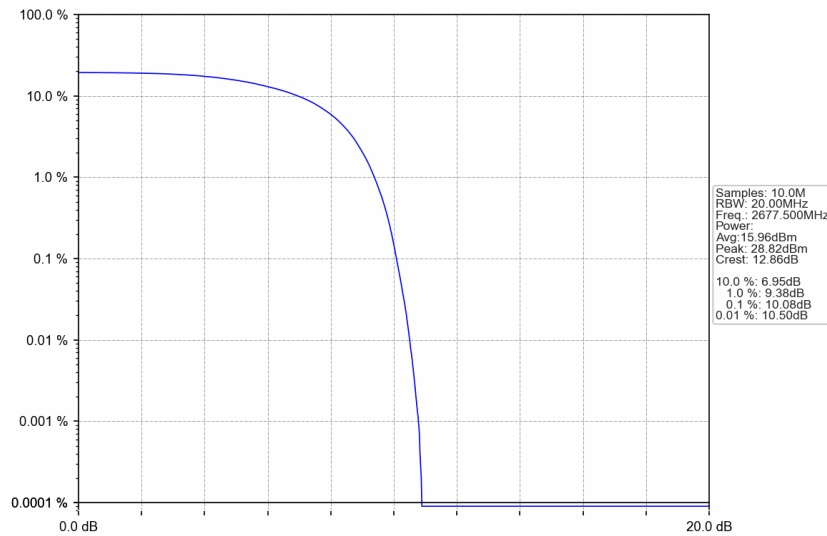


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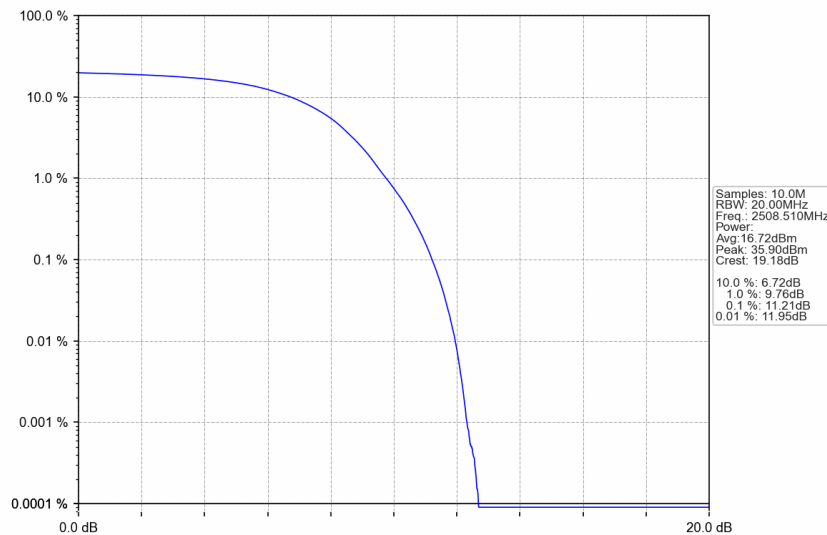
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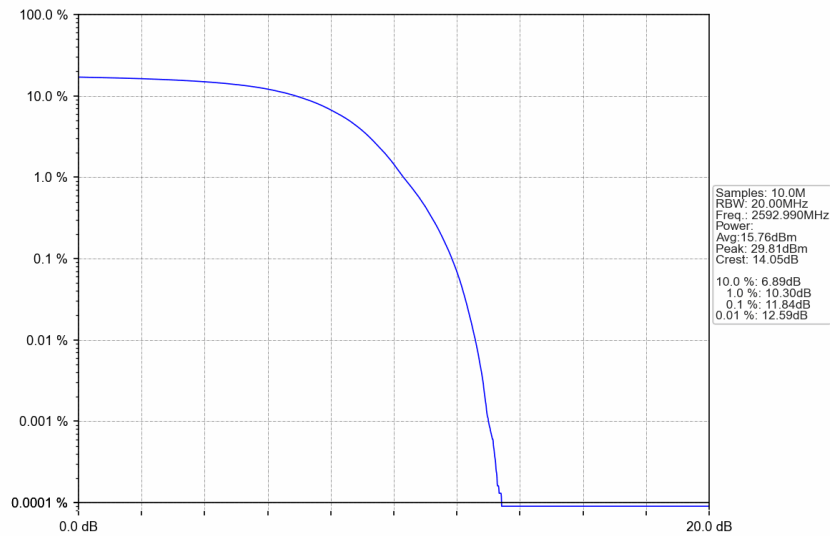


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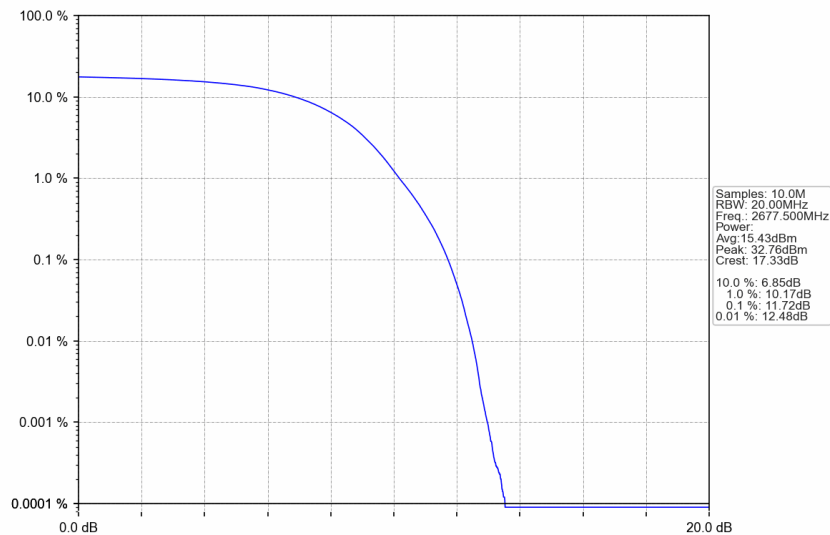
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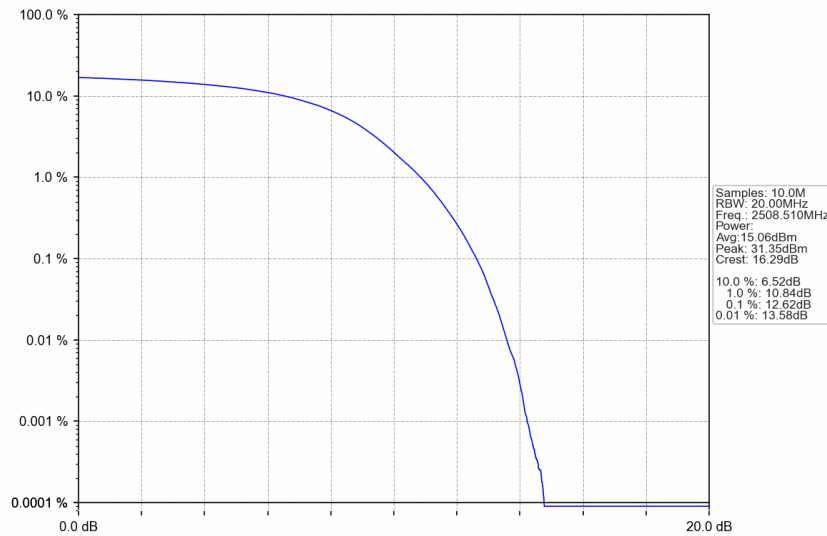
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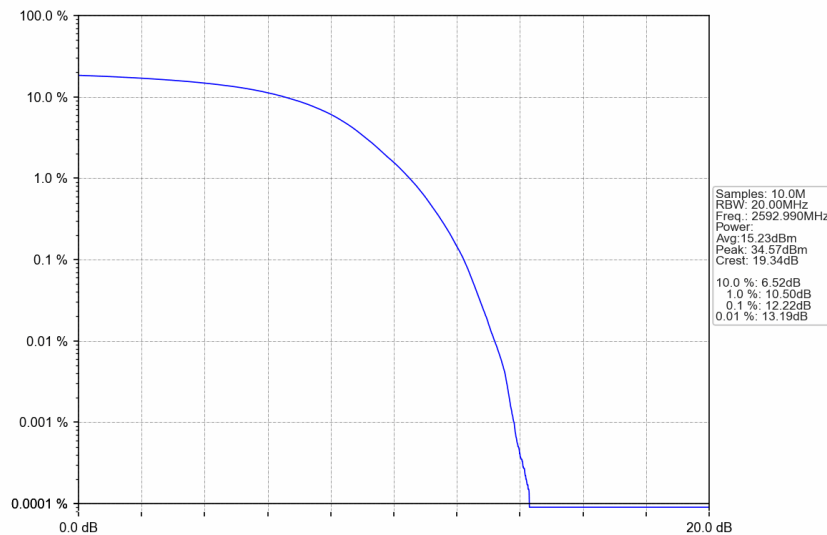
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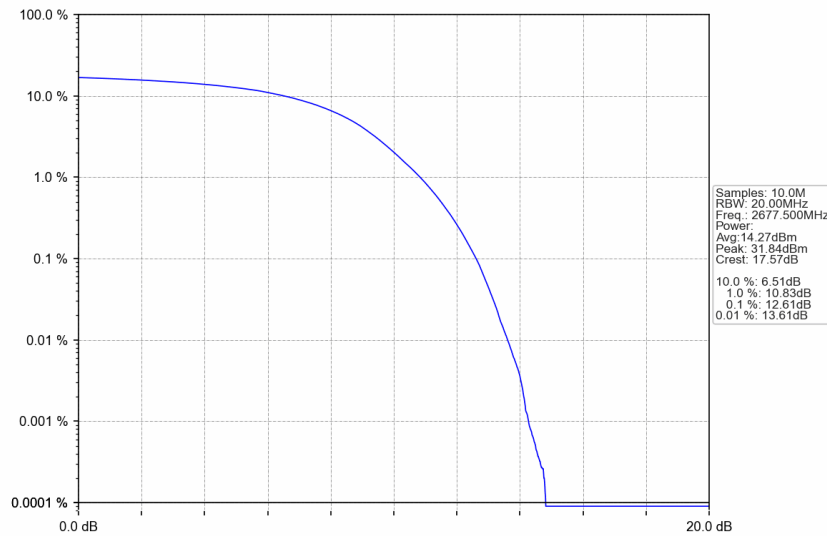


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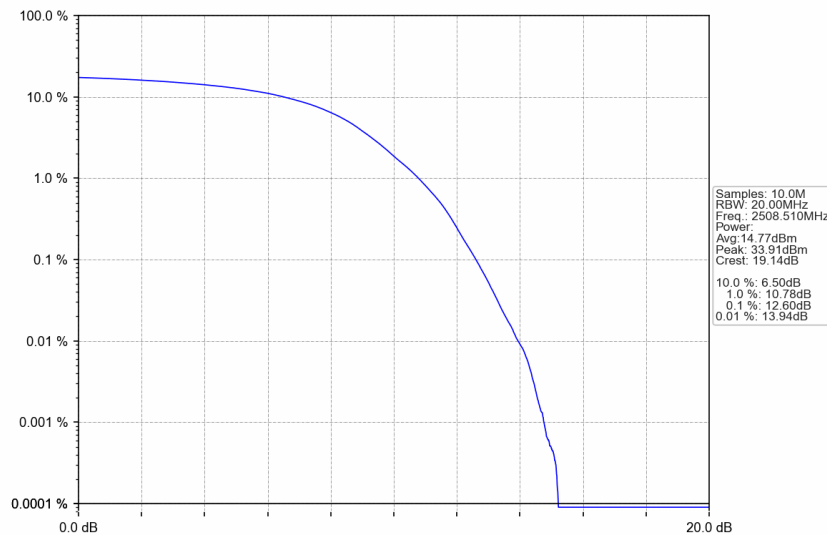
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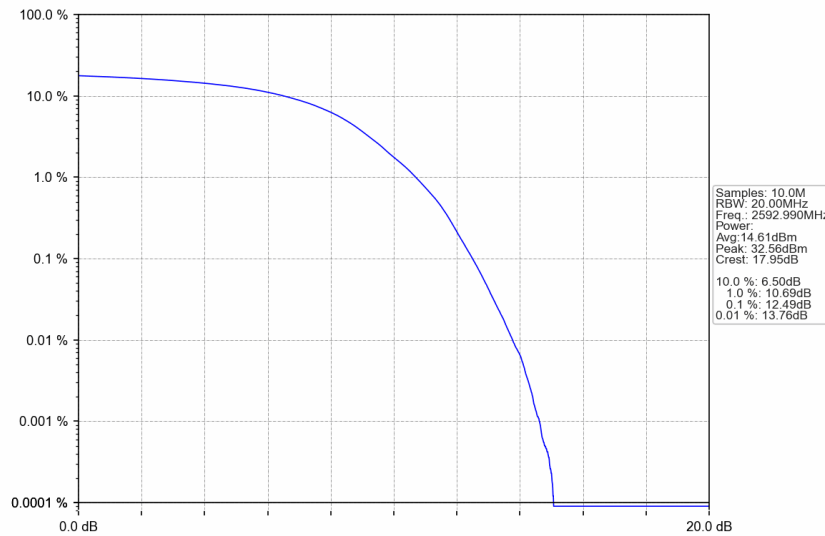
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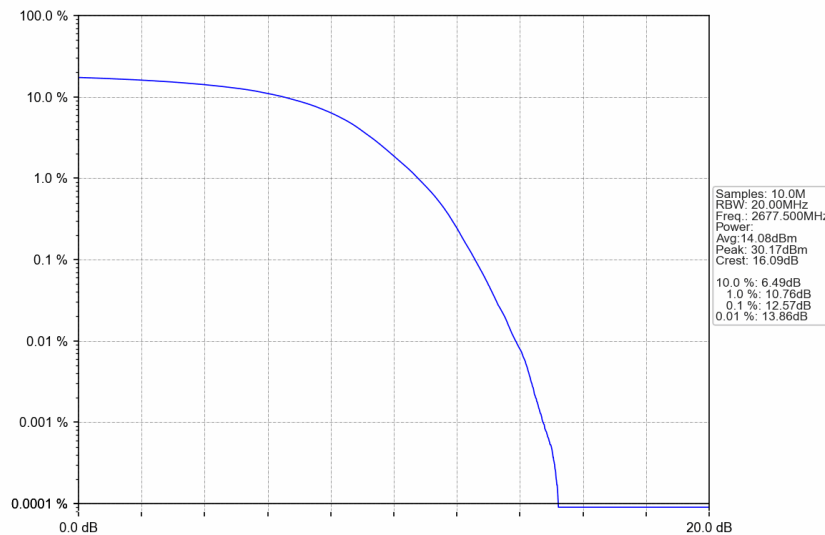
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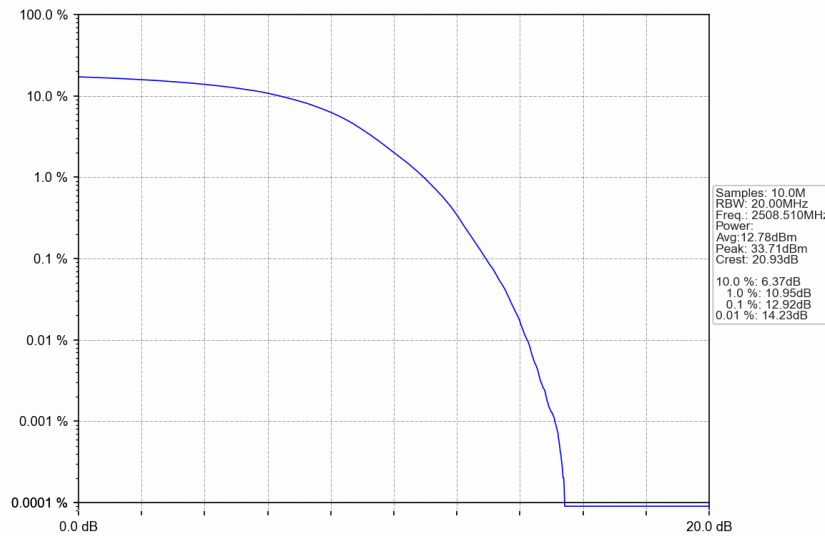
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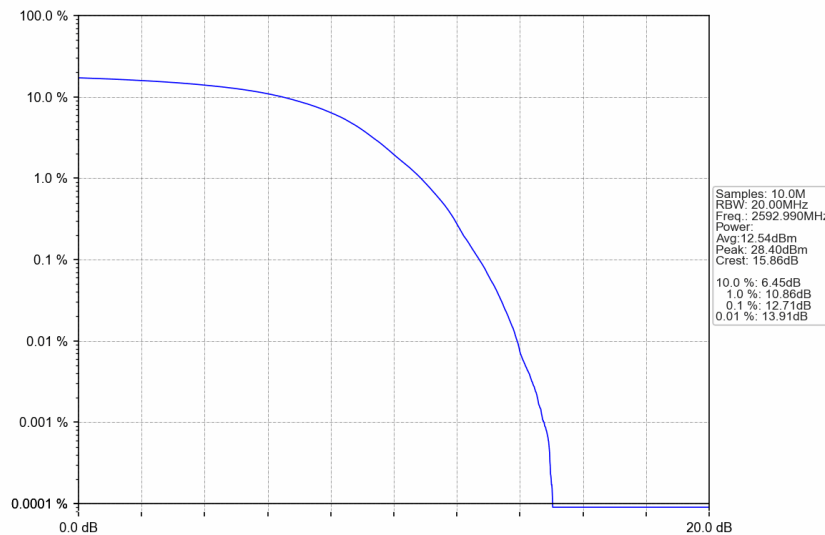
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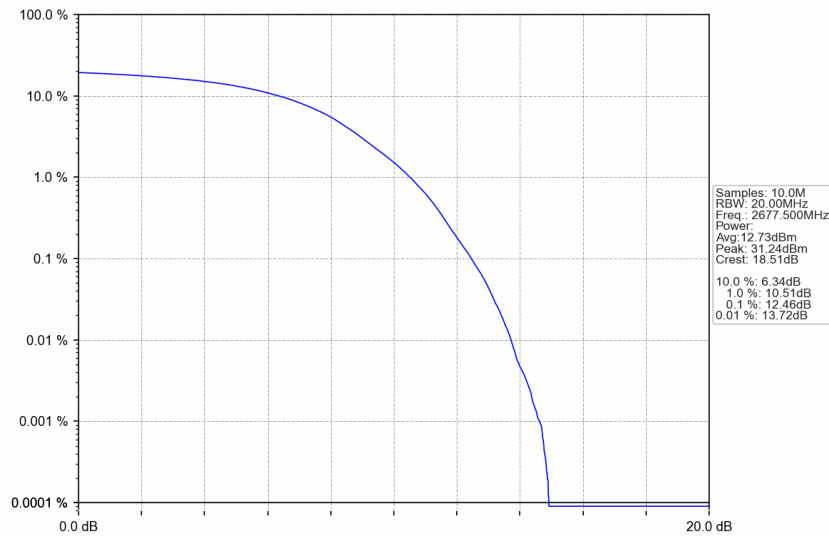


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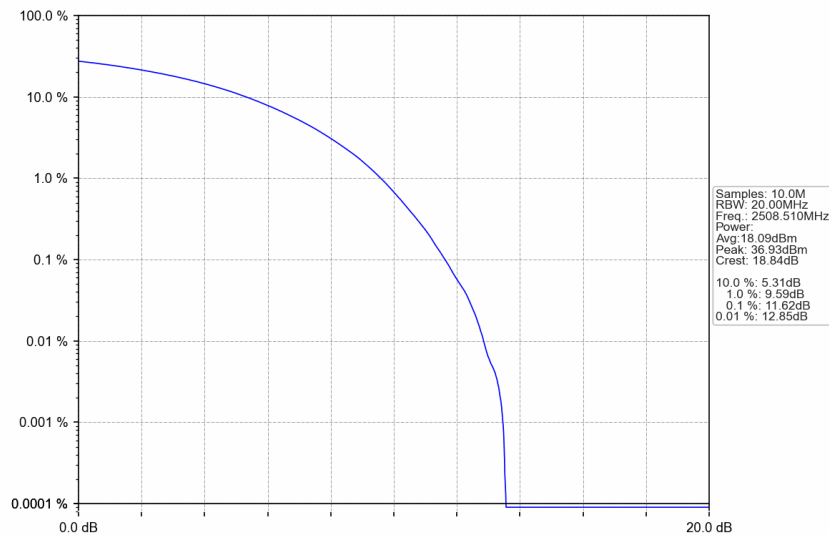
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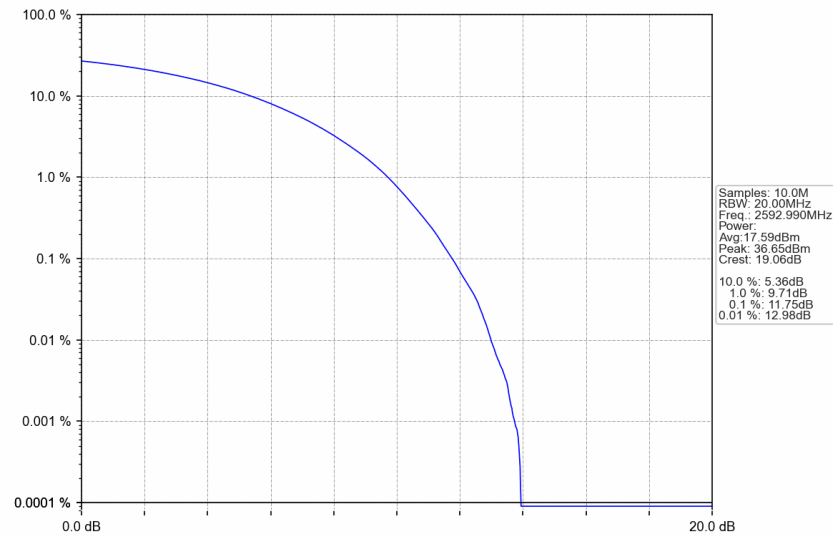
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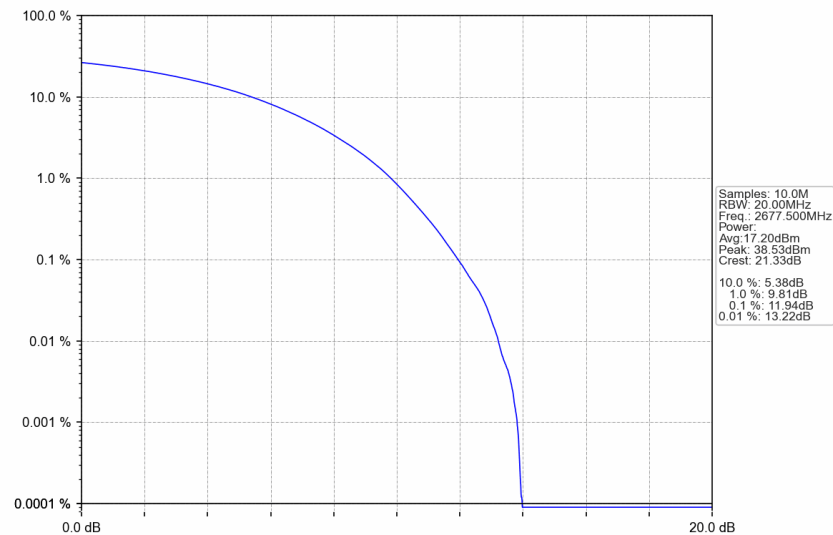
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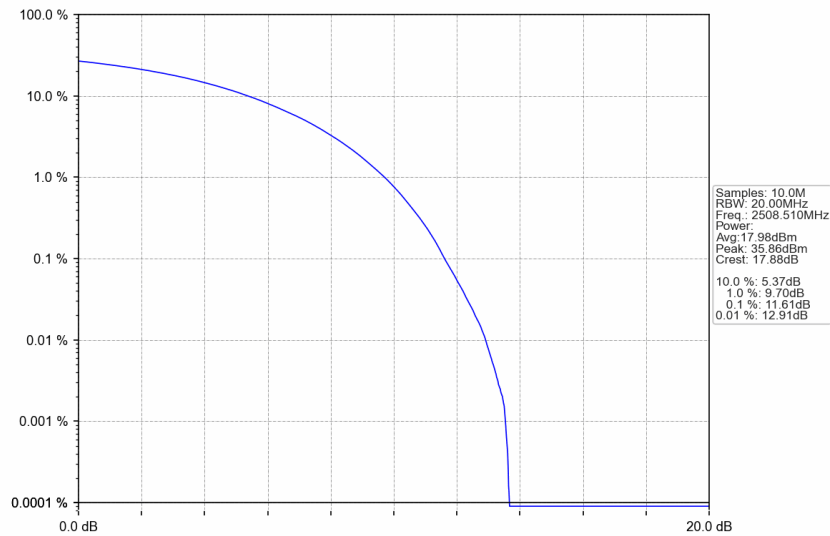


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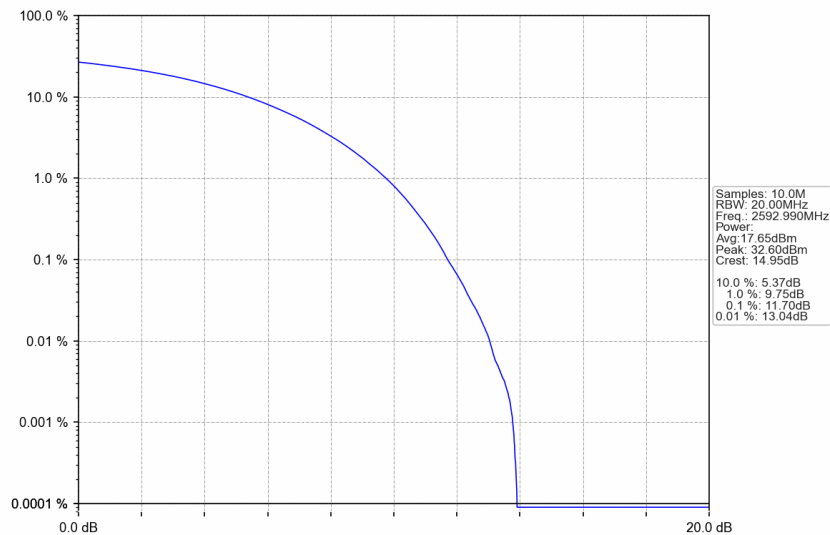
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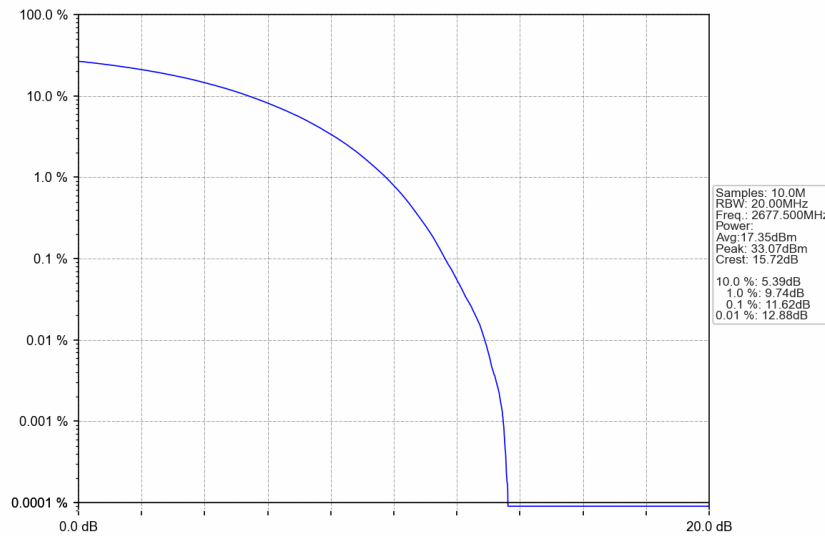
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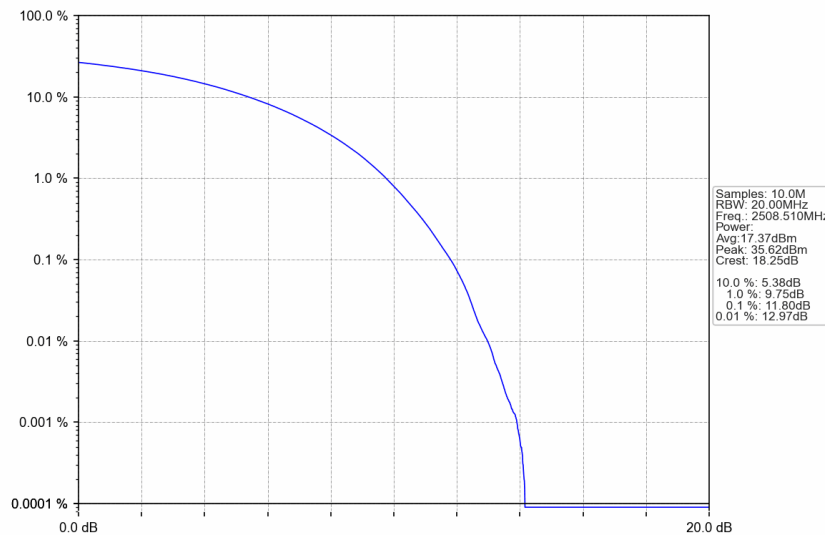
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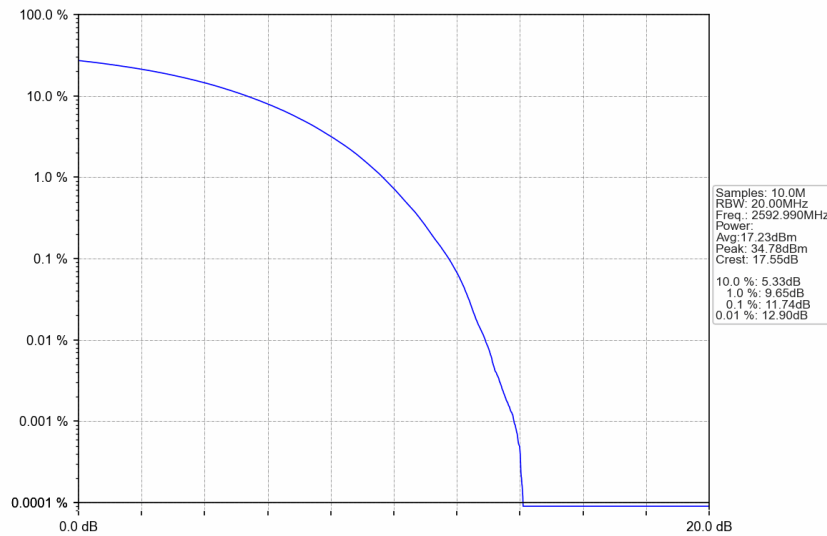


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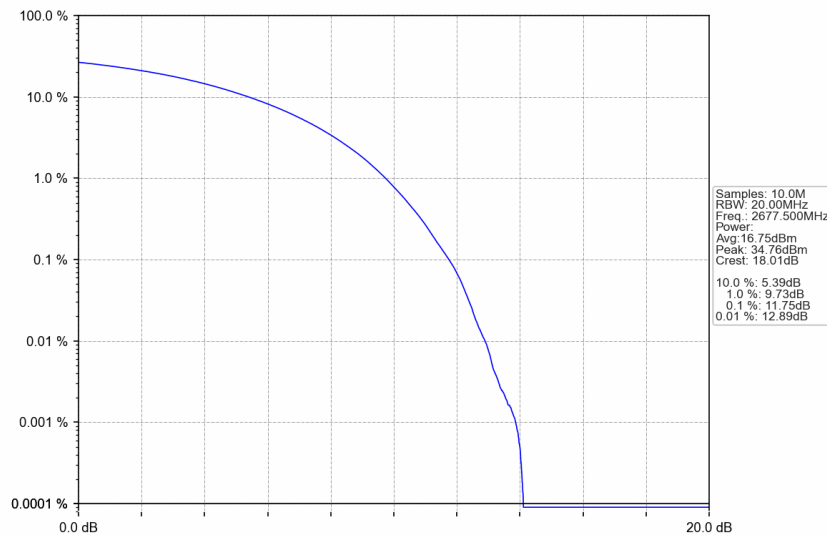
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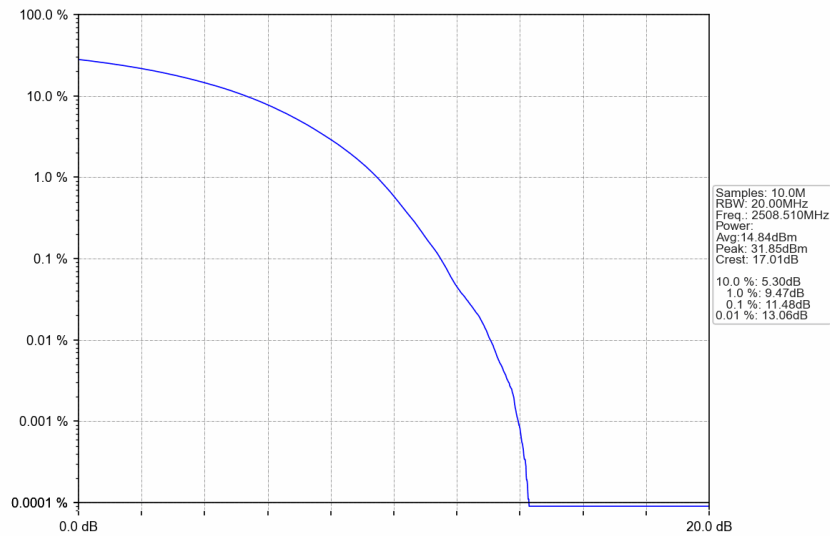


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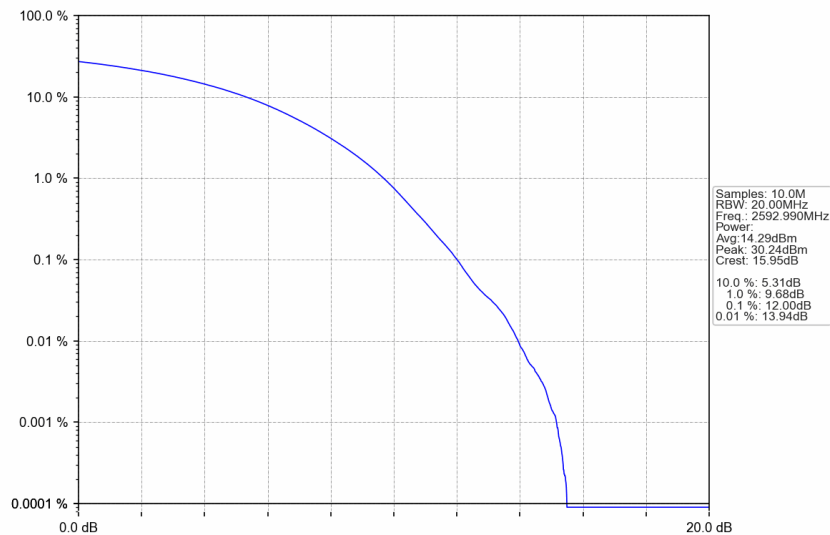
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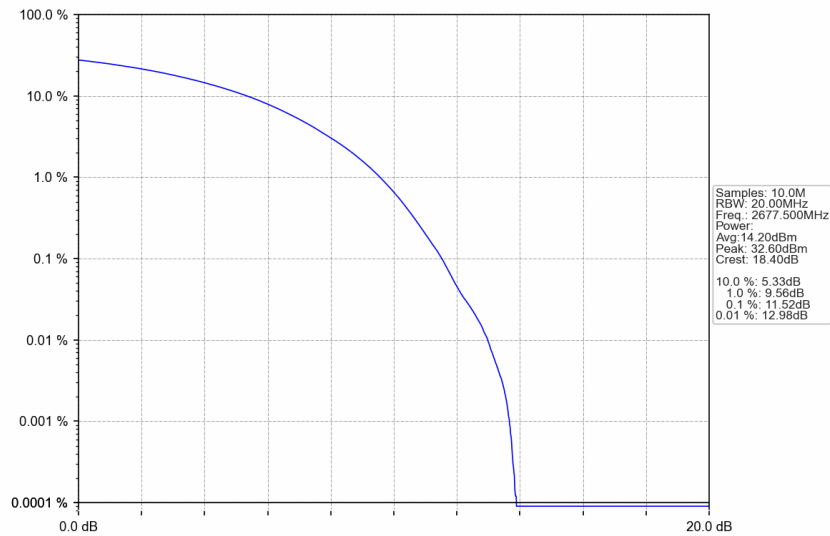


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5.12 30k_SISO_30MHz_NTNV

5.12.1 Test Result

5G NR n41 SCS=30kHz SISO 30MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2511	Outer_Full	12.07	/	/	<=13	Pass
	2592.99	Outer_Full	10.17	/	/	<=13	Pass
	2674.98	Outer_Full	10.23	/	/	<=13	Pass
DFT-s-OFDM QPSK	2511	Outer_Full	11.33	/	/	<=13	Pass
	2592.99	Outer_Full	11.51	/	/	<=13	Pass
	2674.98	Outer_Full	11.71	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2511	Outer_Full	12.25	/	/	<=13	Pass
	2592.99	Outer_Full	12.70	/	/	<=13	Pass
	2674.98	Outer_Full	12.57	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2511	Outer_Full	12.65	/	/	<=13	Pass
	2592.99	Outer_Full	12.89	/	/	<=13	Pass
	2674.98	Outer_Full	13.00	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2511	Outer_Full	10.06	/	/	<=13	Pass
	2592.99	Outer_Full	9.84	/	/	<=13	Pass
	2674.98	Outer_Full	9.86	/	/	<=13	Pass
CP-OFDM QPSK	2511	Outer_Full	11.59	/	/	<=13	Pass
	2592.99	Outer_Full	11.66	/	/	<=13	Pass
	2674.98	Outer_Full	11.67	/	/	<=13	Pass
CP-OFDM 16 QAM	2511	Outer_Full	11.95	/	/	<=13	Pass
	2592.99	Outer_Full	11.95	/	/	<=13	Pass
	2674.98	Outer_Full	11.76	/	/	<=13	Pass
CP-OFDM 64 QAM	2511	Outer_Full	11.74	/	/	<=13	Pass
	2592.99	Outer_Full	11.69	/	/	<=13	Pass
	2674.98	Outer_Full	11.83	/	/	<=13	Pass
CP-OFDM 256 QAM	2511	Outer_Full	11.74	/	/	<=13	Pass
	2592.99	Outer_Full	11.80	/	/	<=13	Pass
	2674.98	Outer_Full	11.73	/	/	<=13	Pass

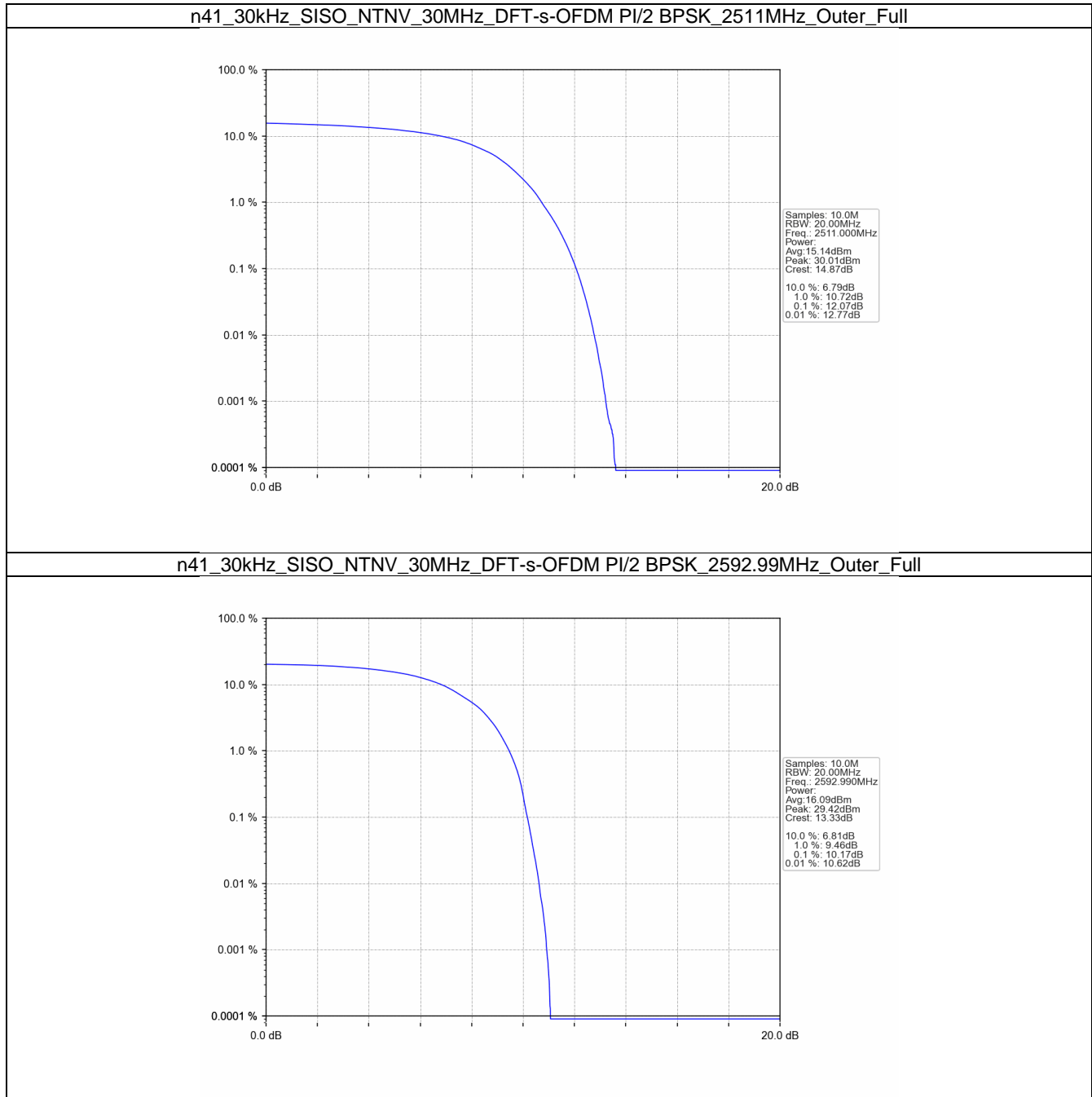


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5.12.2 Test Graph

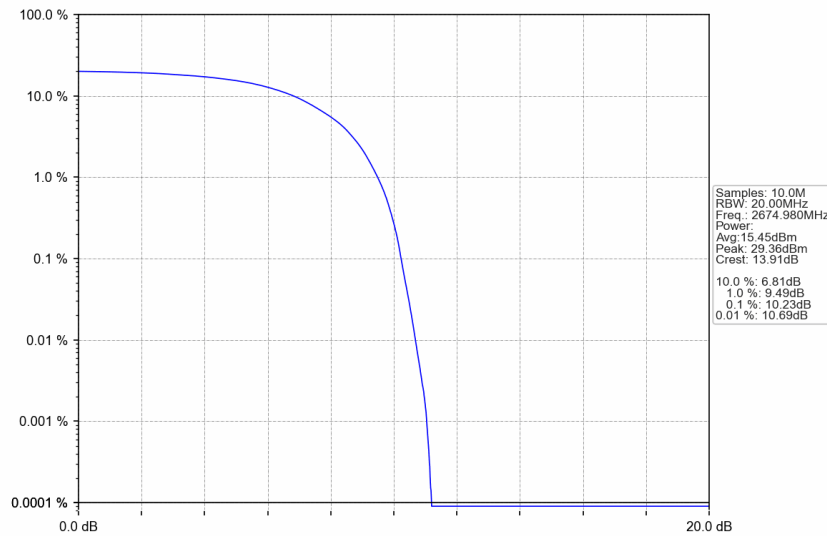


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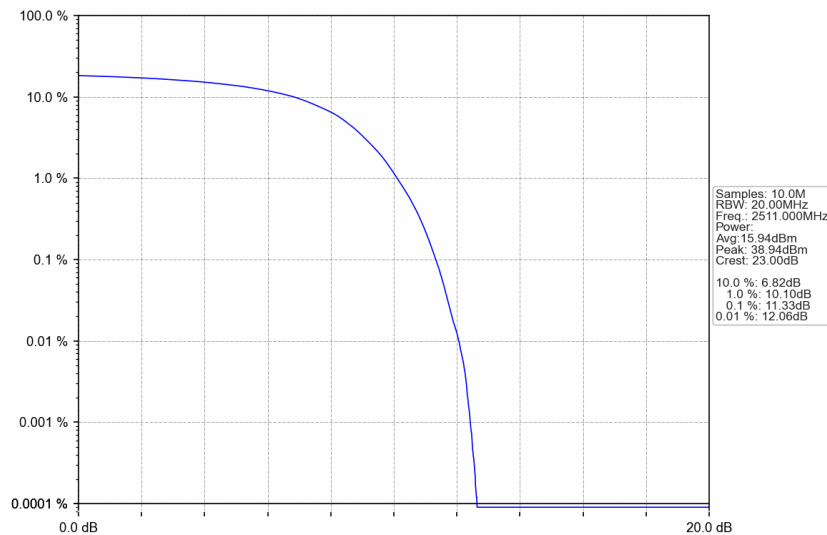
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n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_2511MHz_Outer_Full

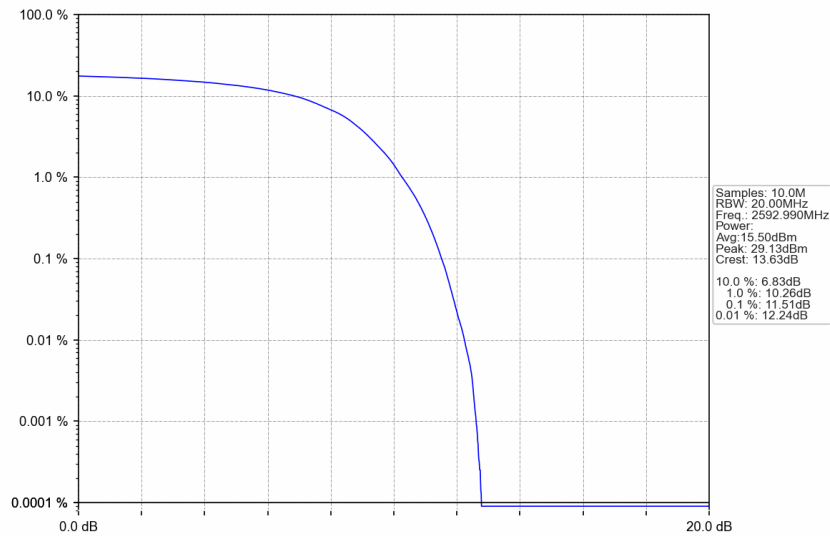


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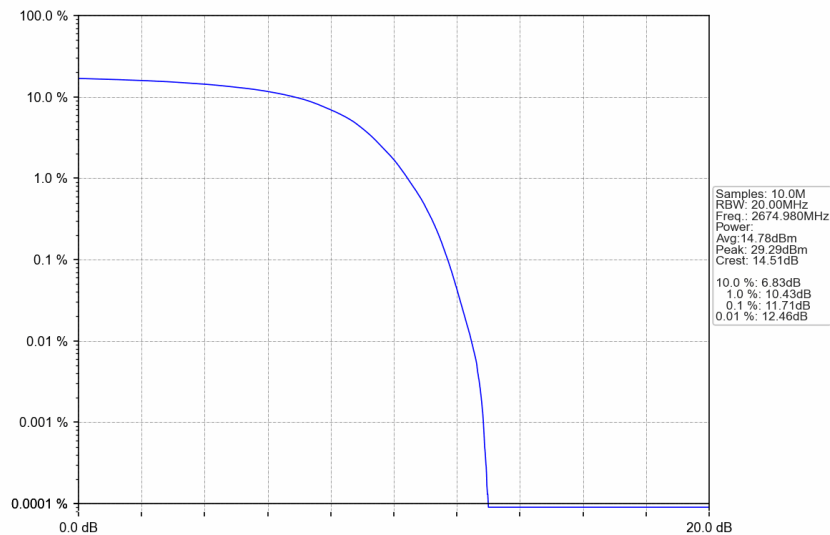
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n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_2674.98MHz_Outer_Full



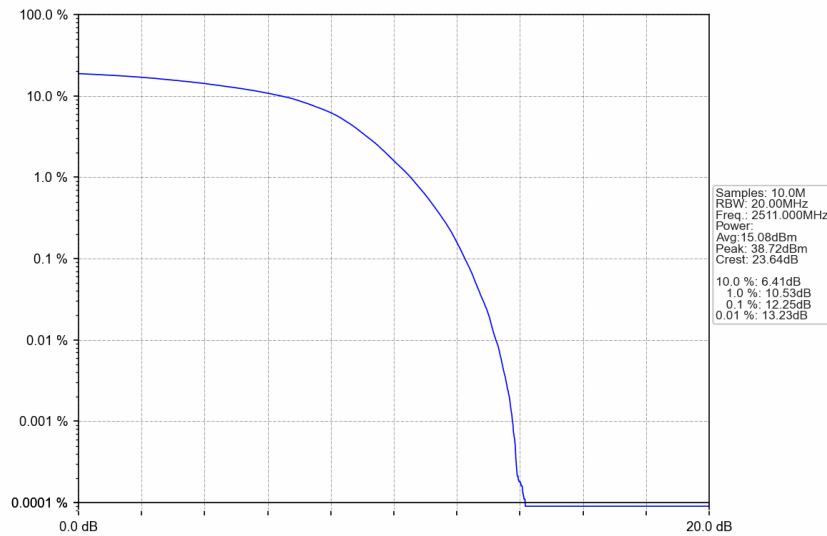
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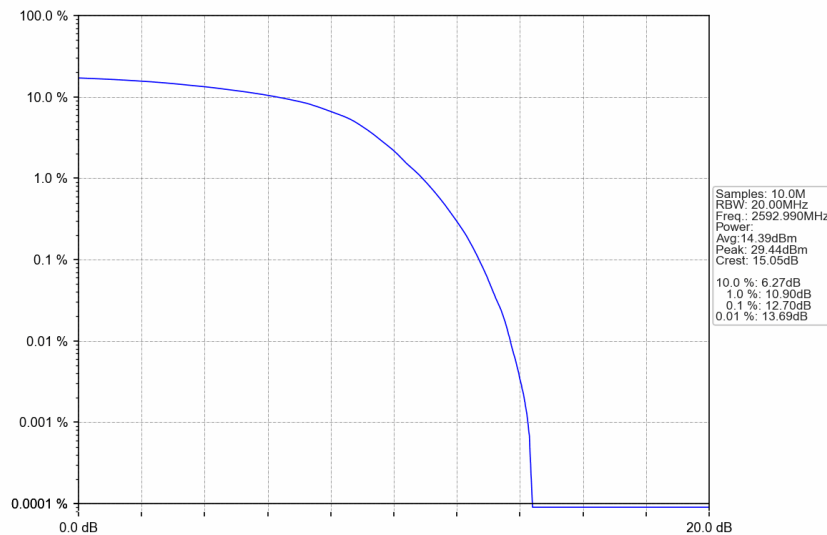
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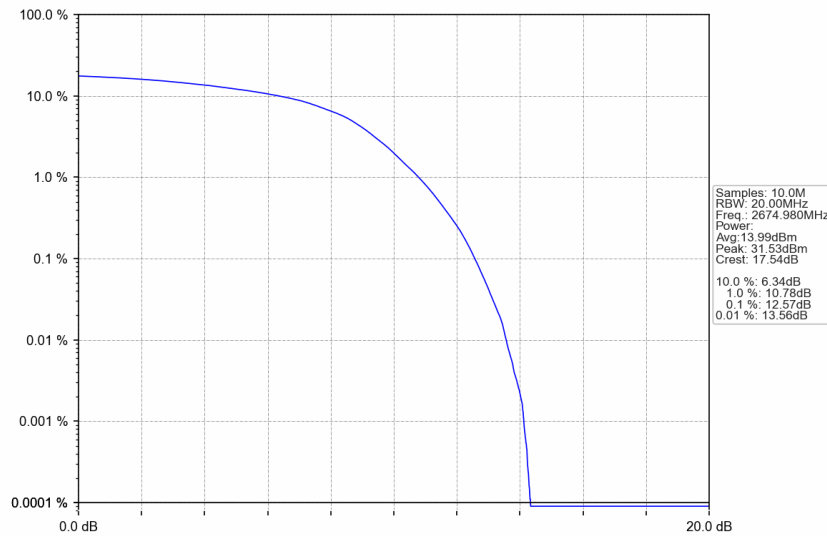
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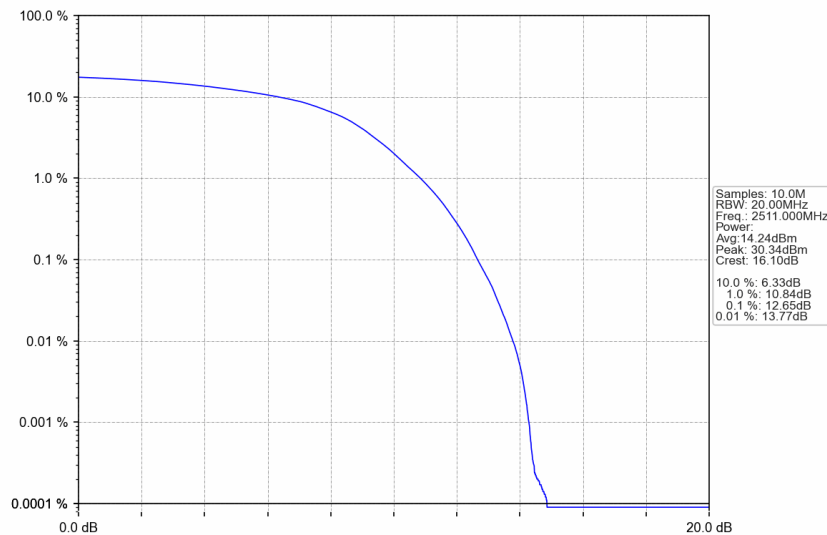
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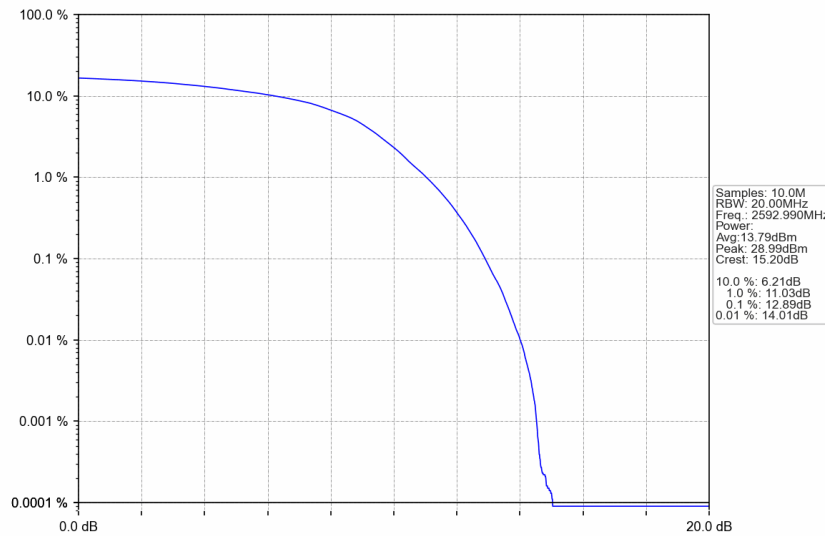
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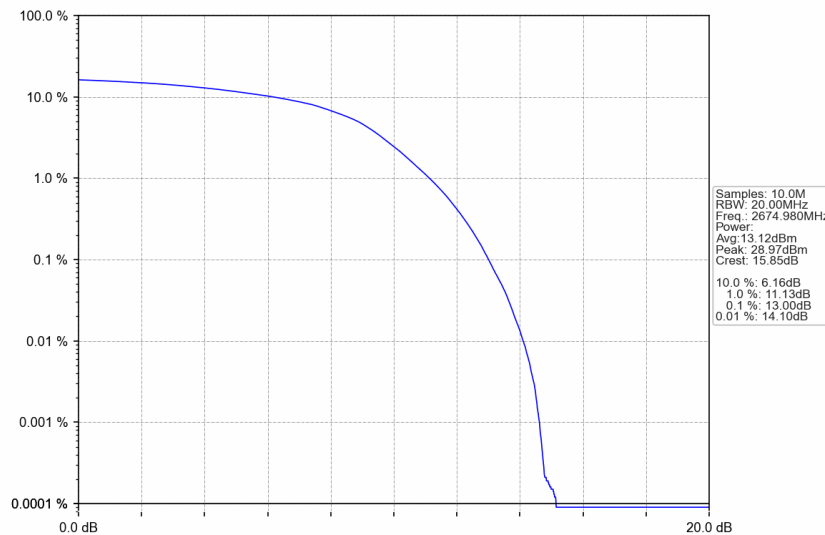
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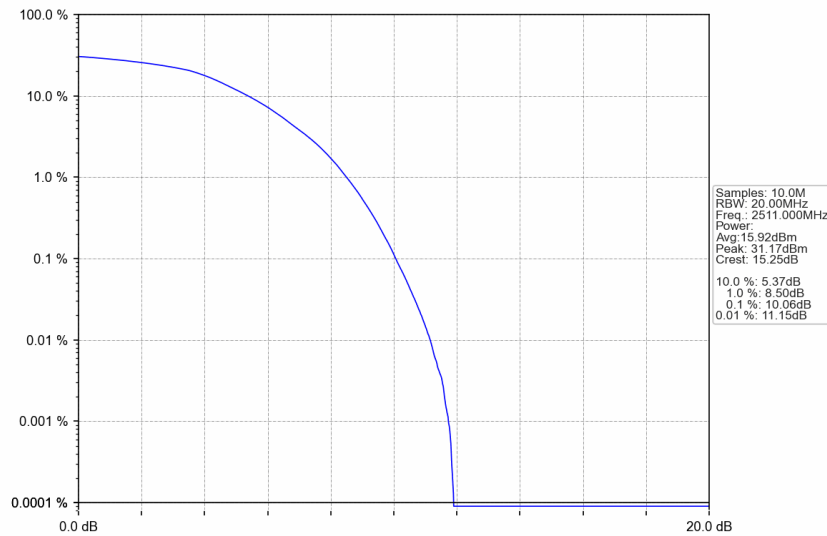


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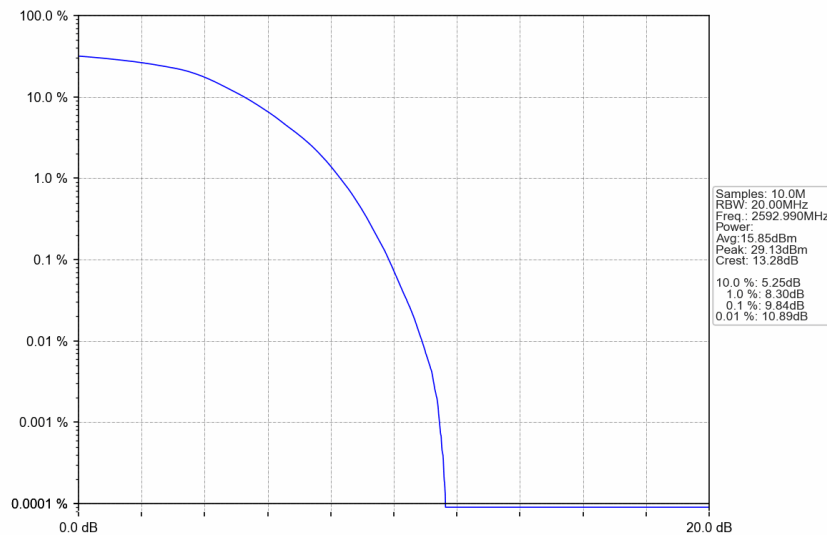
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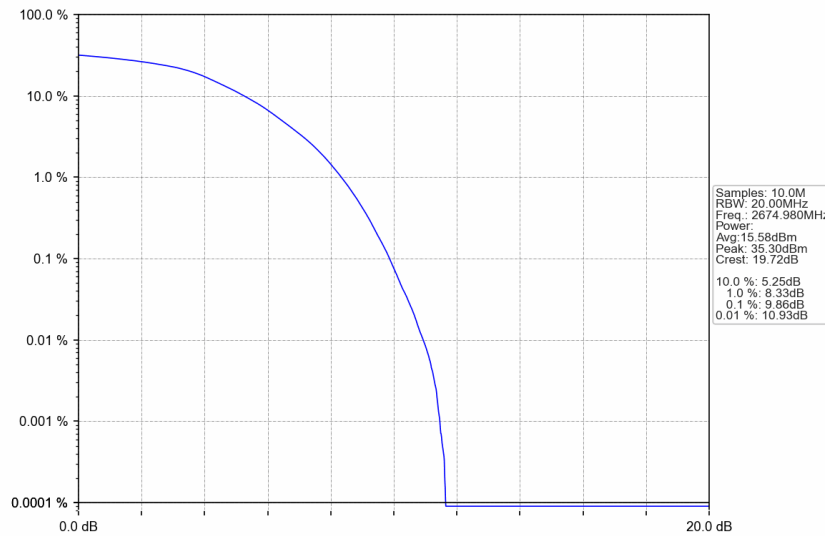


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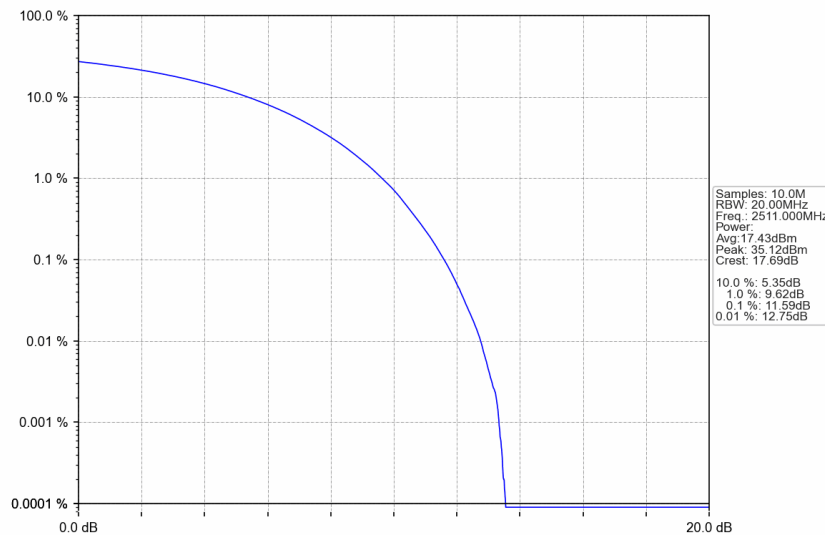
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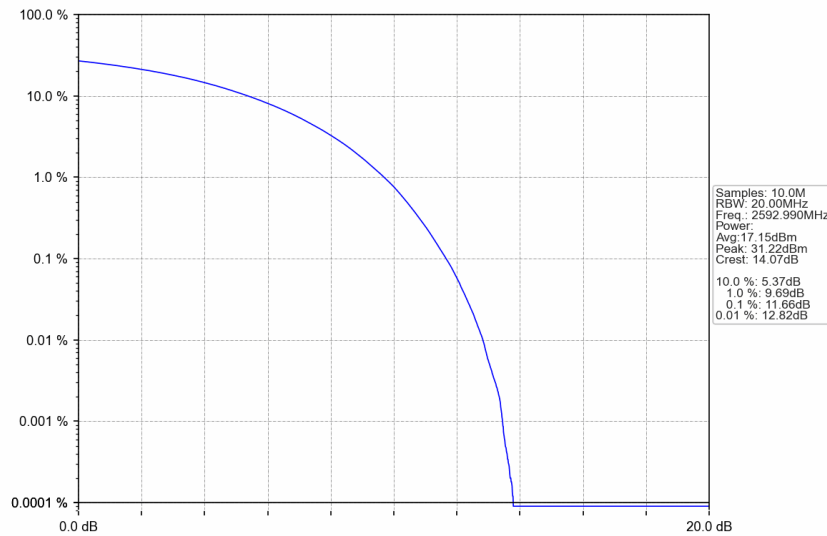
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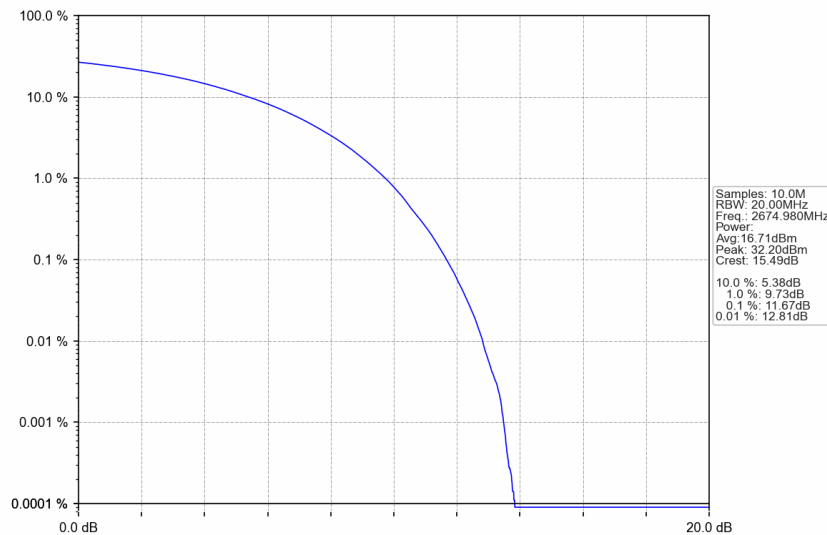
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n41_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_2674.98MHz_Outer_Full



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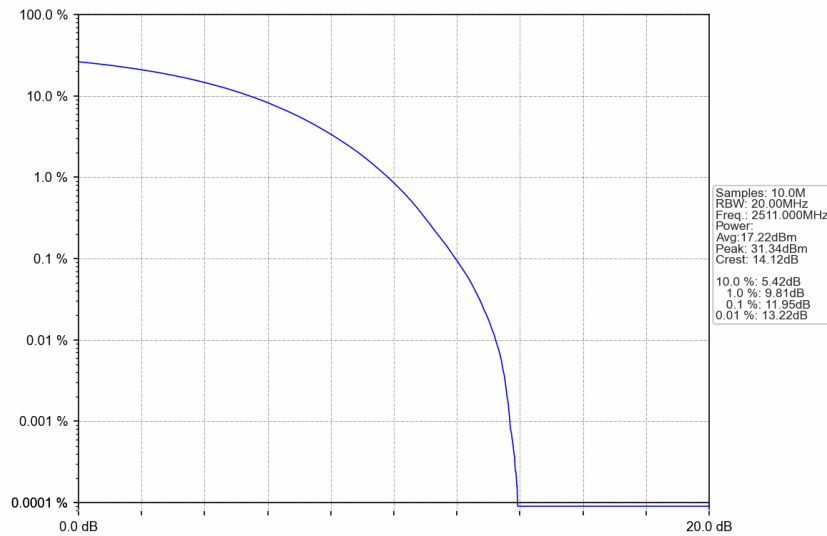
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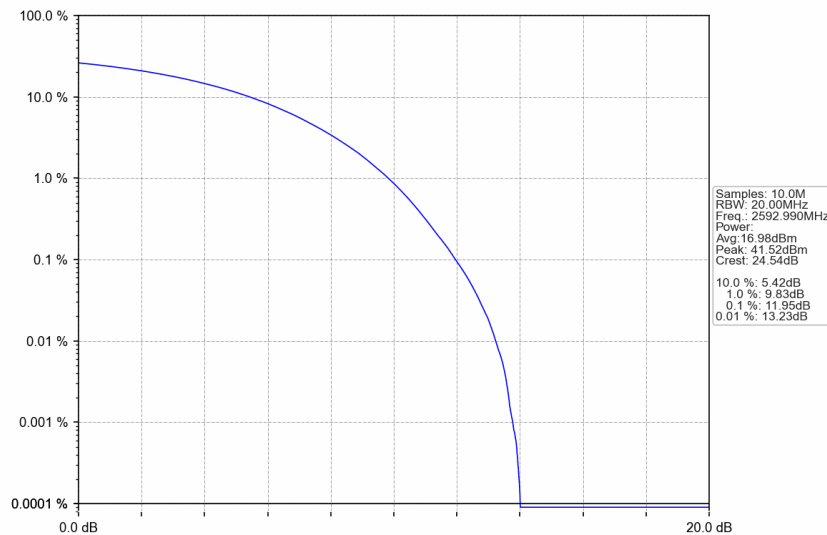
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n41_30kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_2511MHz_Outer_Full



n41_30kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_2592.99MHz_Outer_Full



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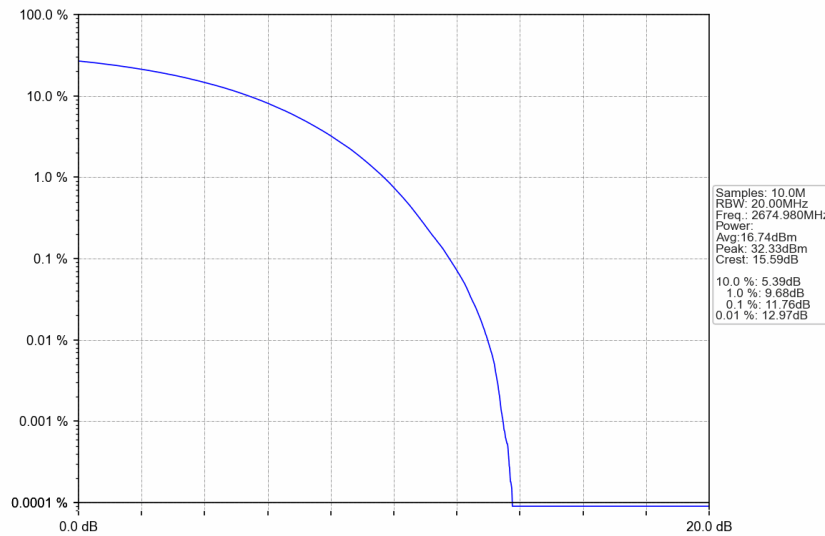
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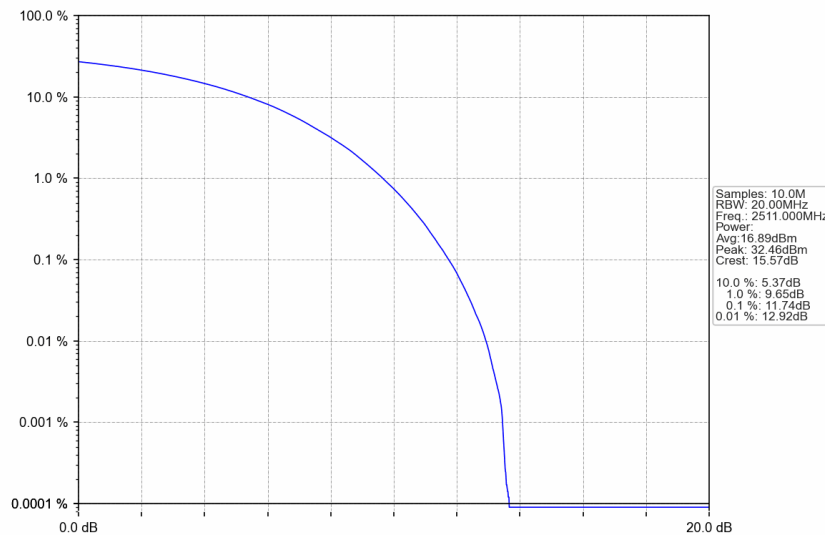
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n41_30kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_2674.98MHz_Outer_Full



n41_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_2511MHz_Outer_Full



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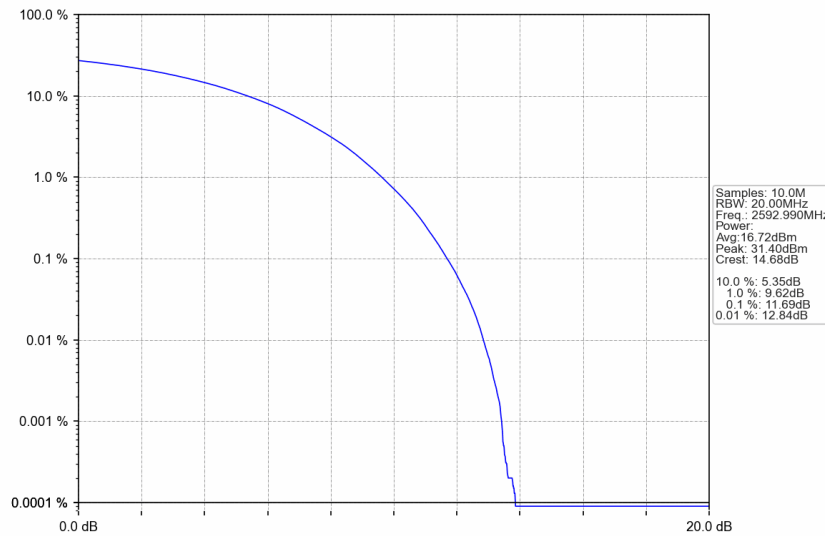
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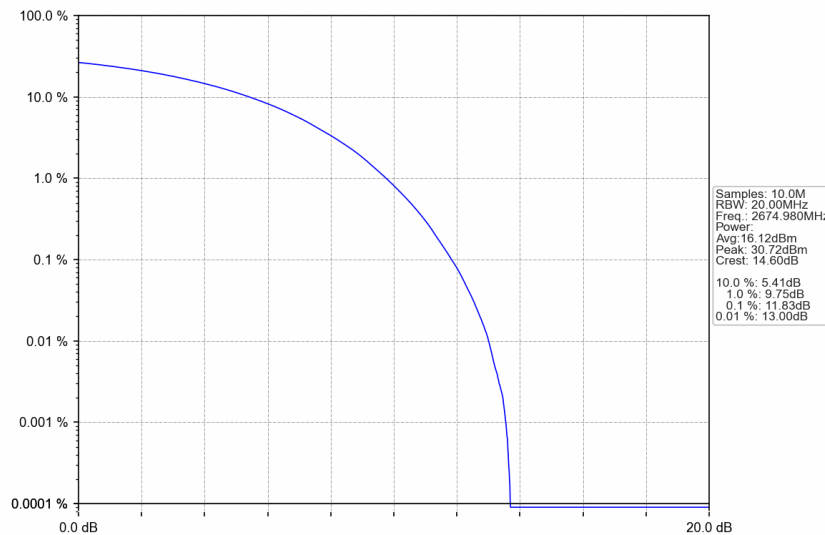
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n41_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_2674.98MHz_Outer_Full



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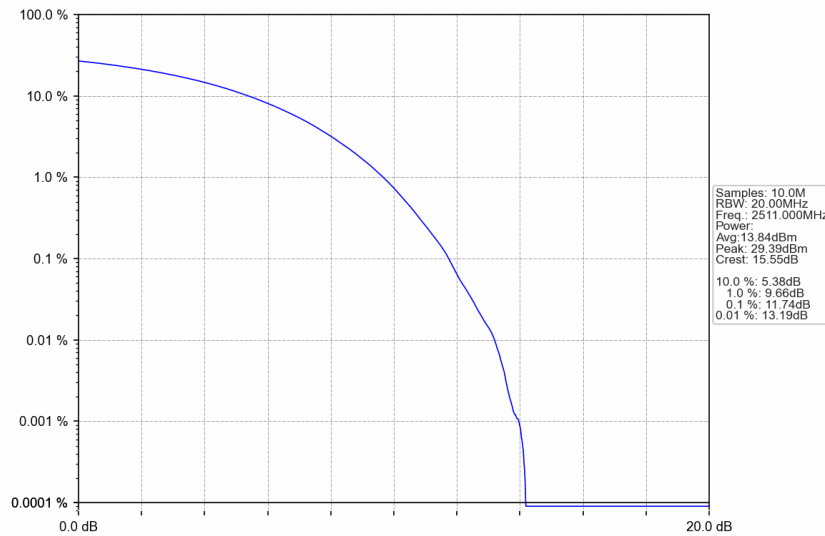
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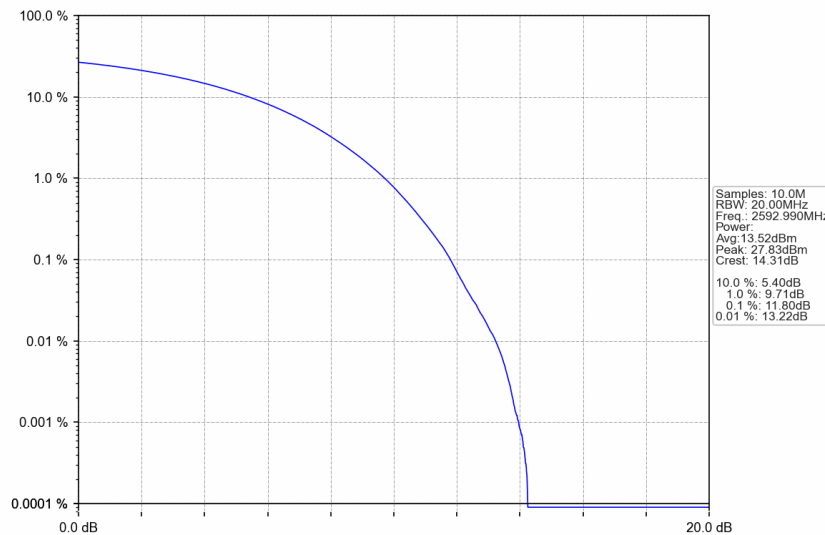
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n41_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_2511MHz_Outer_Full



n41_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_2592.99MHz_Outer_Full



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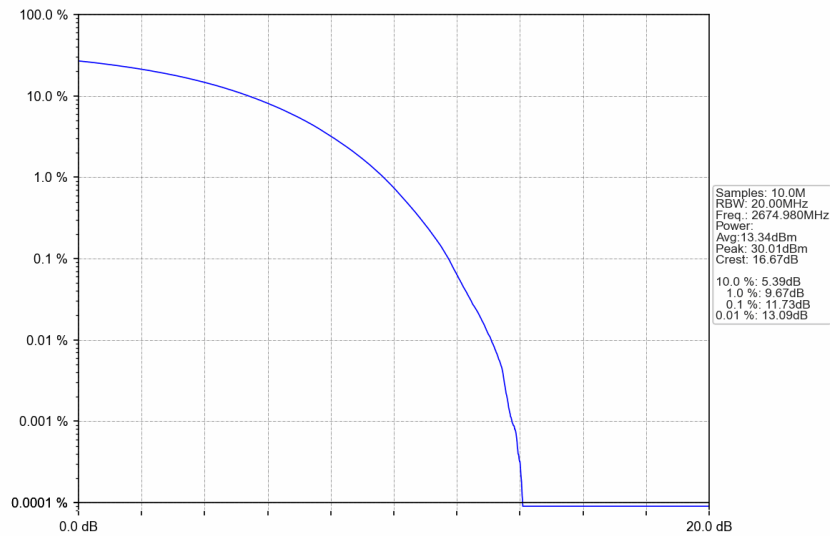


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n41_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_2674.98MHz_Outer_Full



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