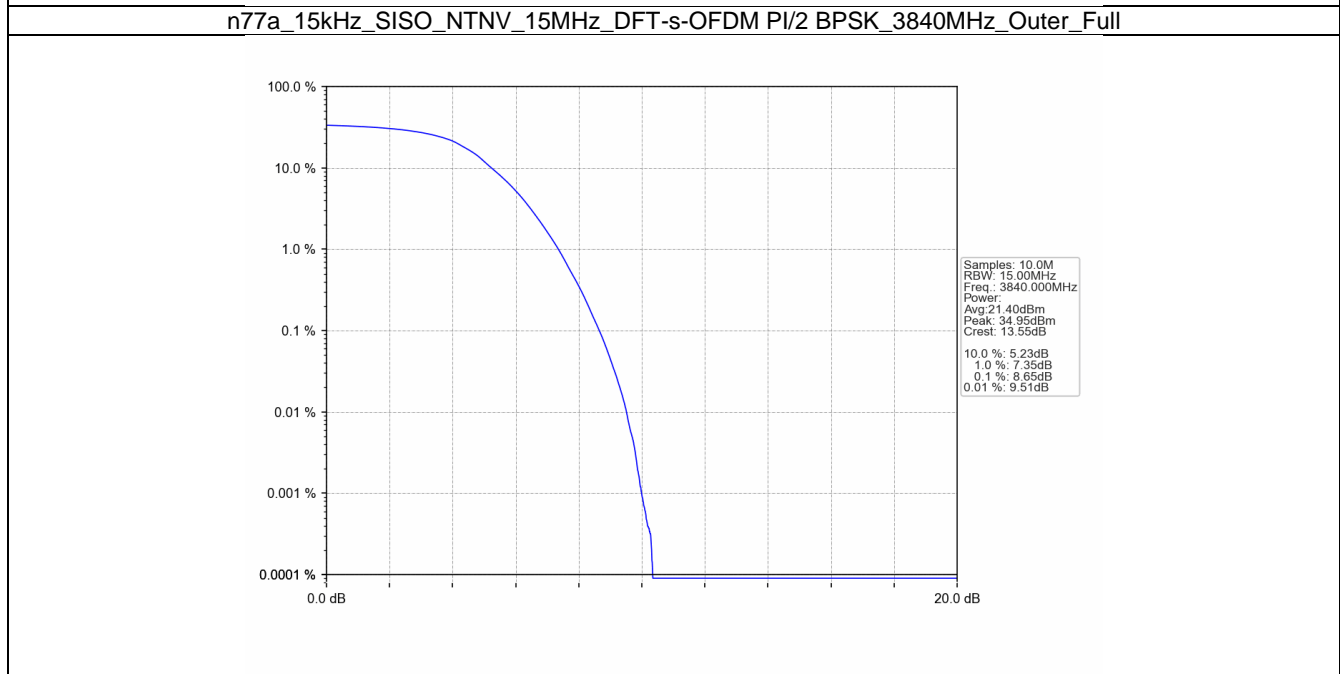
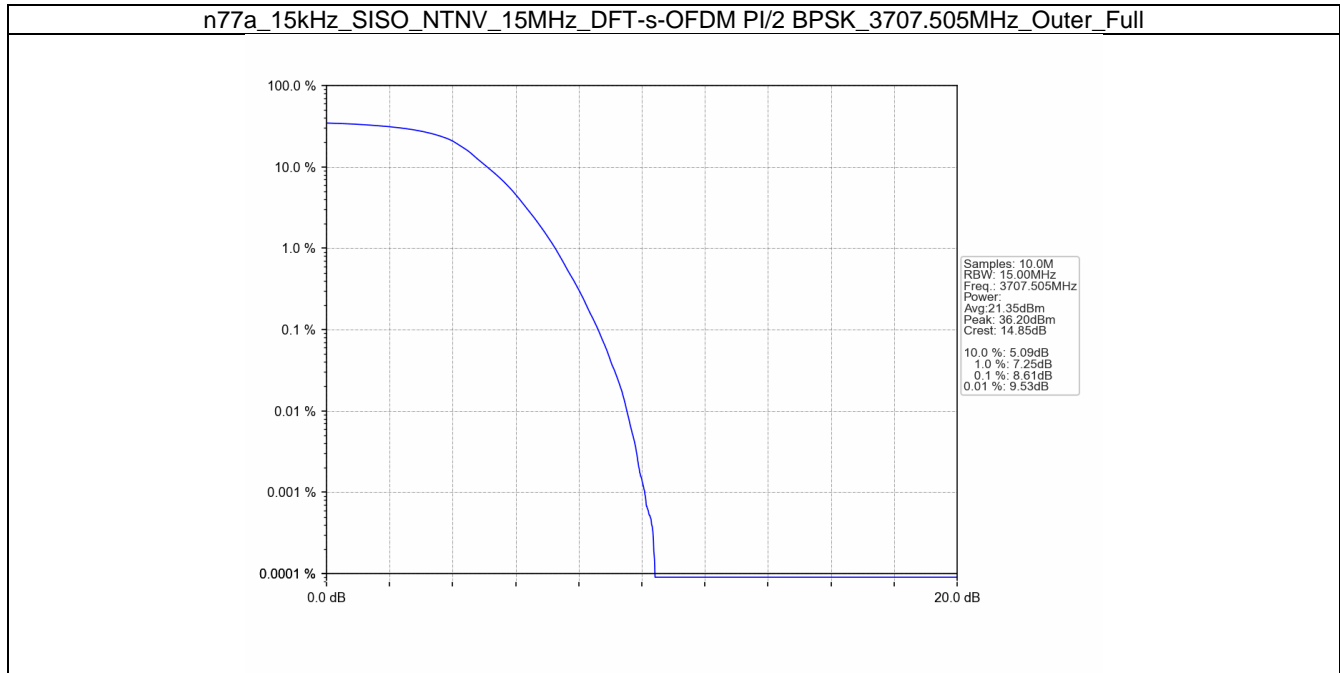


5.2.2 Test Graph



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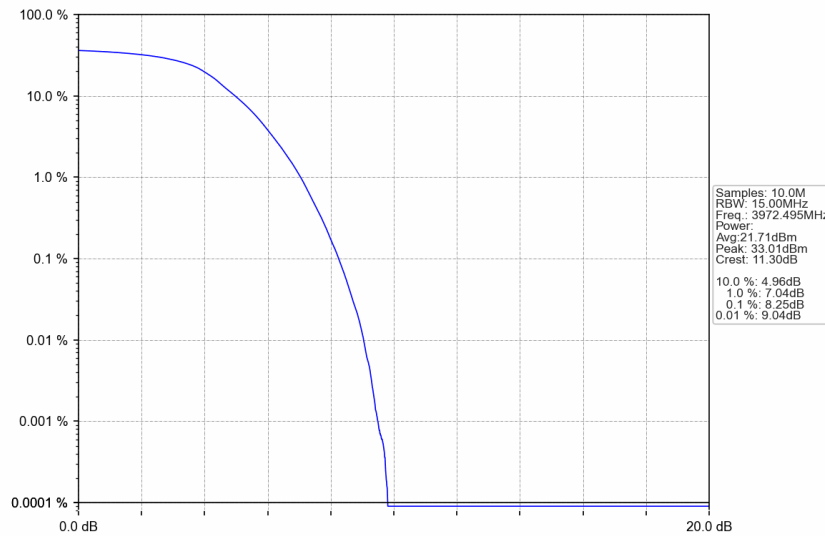


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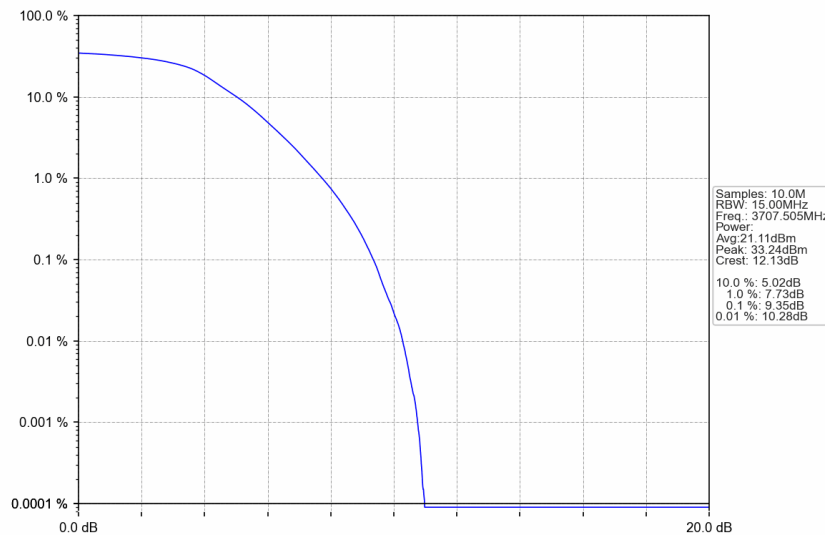
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n77a\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM PI/2 BPSK\_3972.495MHz\_Outer\_Full



n77a\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM QPSK\_3707.505MHz\_Outer\_Full



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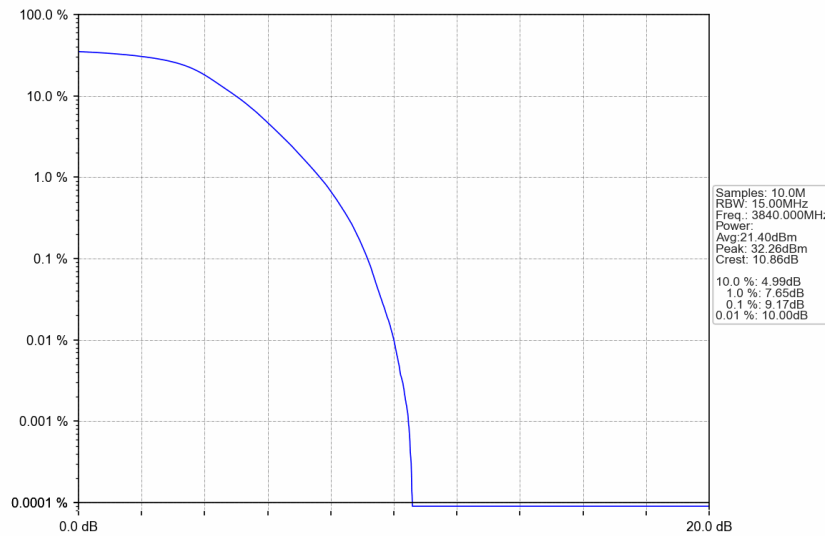


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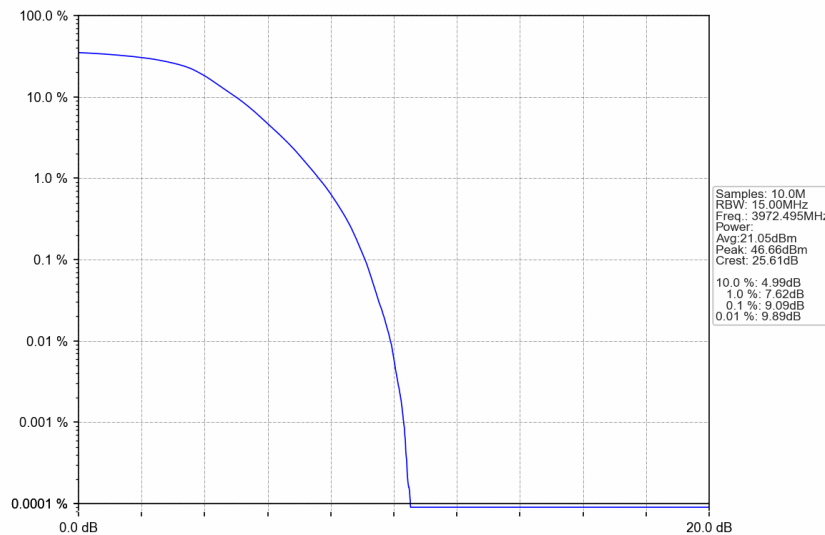
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n77a\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM QPSK\_3840MHz\_Outer\_Full



n77a\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM QPSK\_3972.495MHz\_Outer\_Full



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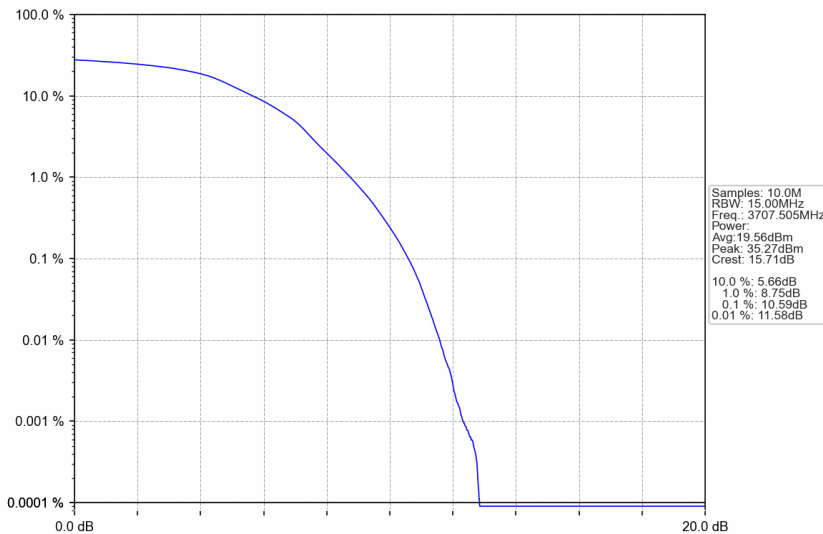
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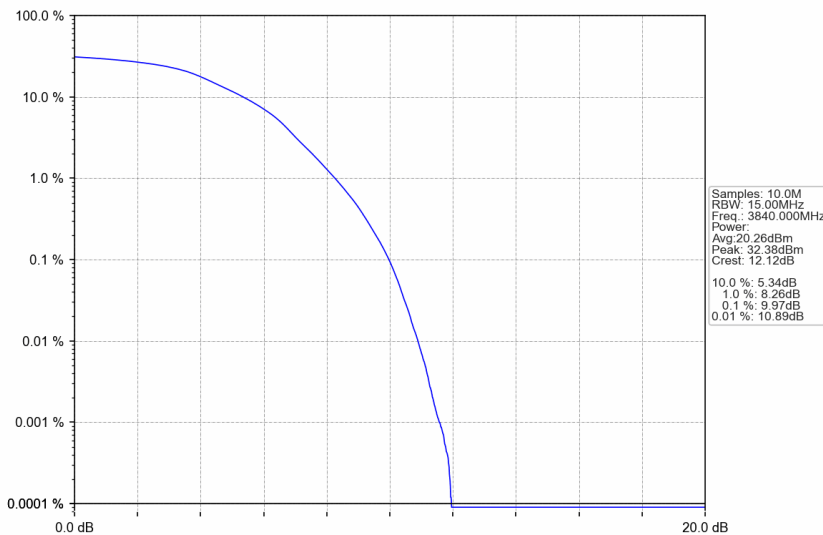
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n77a\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 16 QAM\_3707.505MHz\_Outer\_Full



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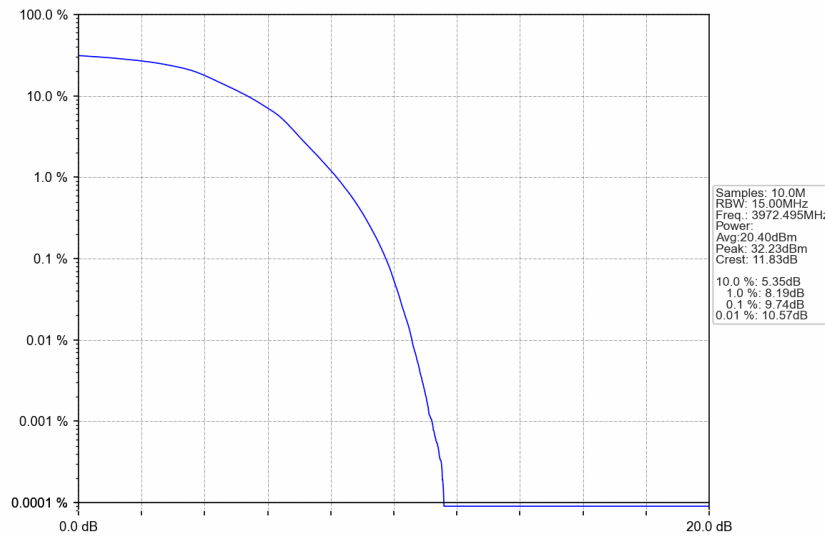


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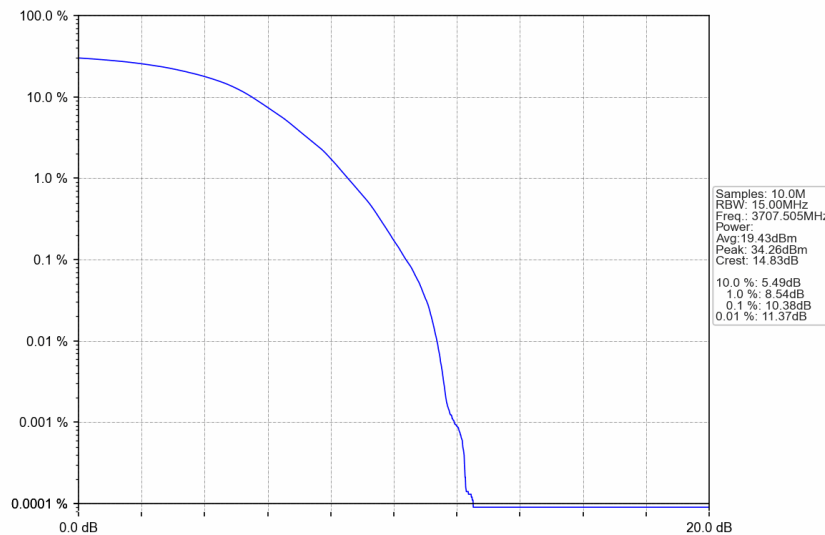
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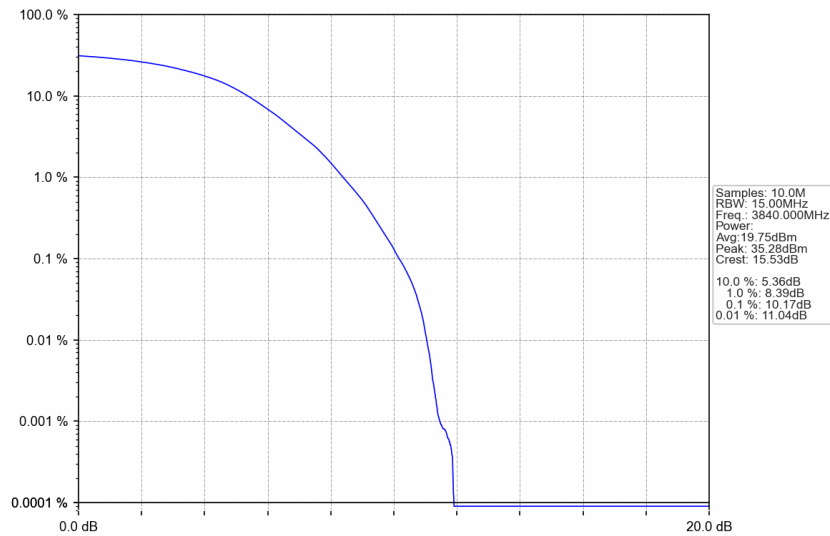
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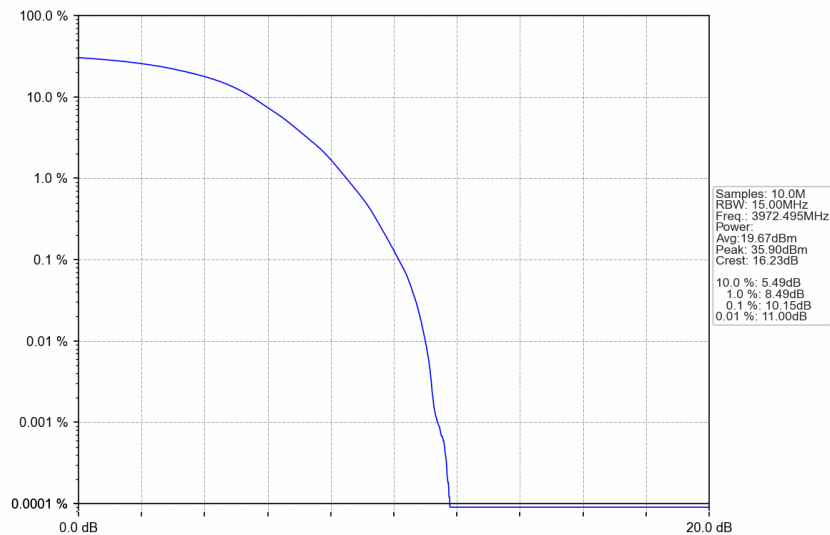
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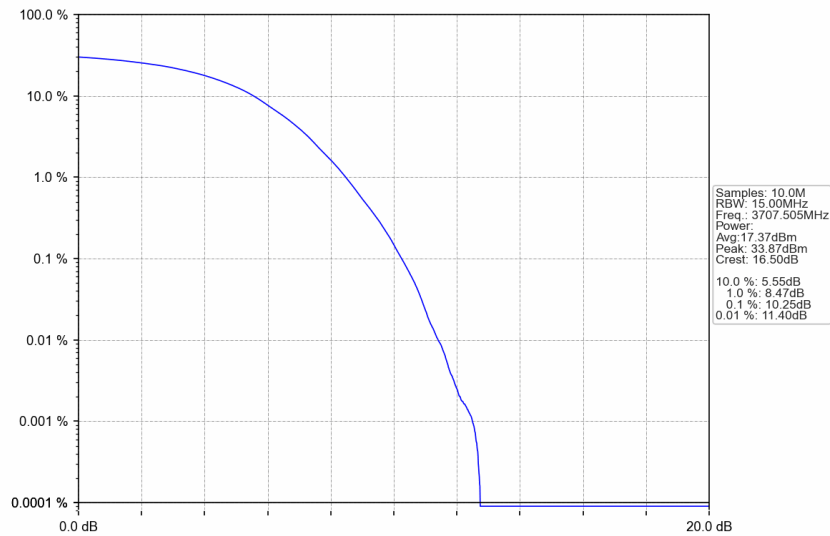


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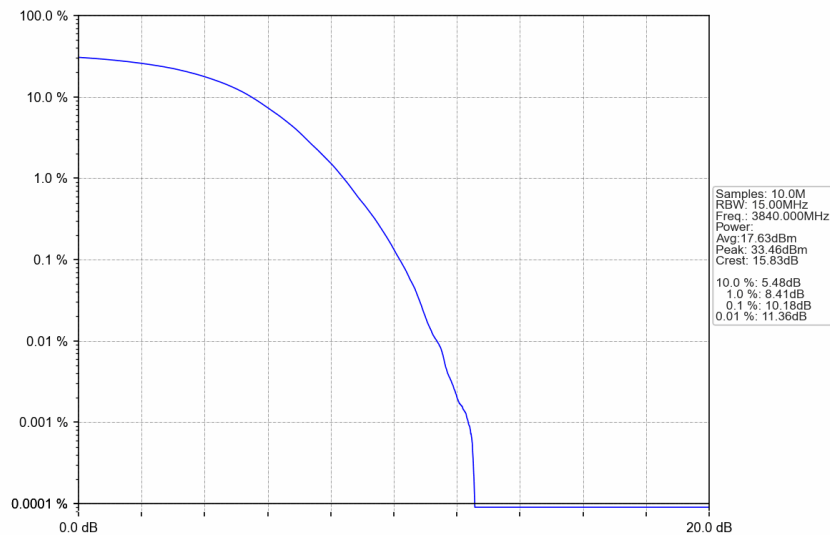
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n77a\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 256 QAM\_3707.505MHz\_Outer\_Full



n77a\_15kHz\_SISO\_NTNV\_15MHz\_DFT-s-OFDM 256 QAM\_3840MHz\_Outer\_Full



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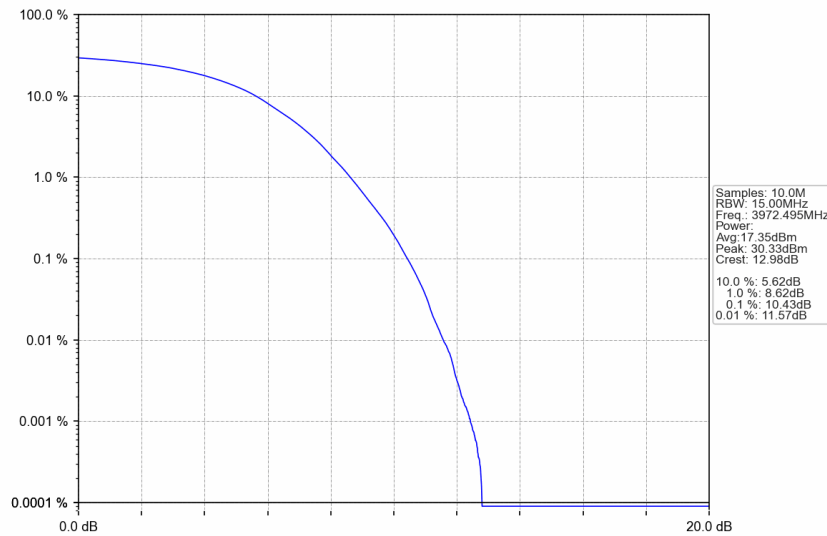


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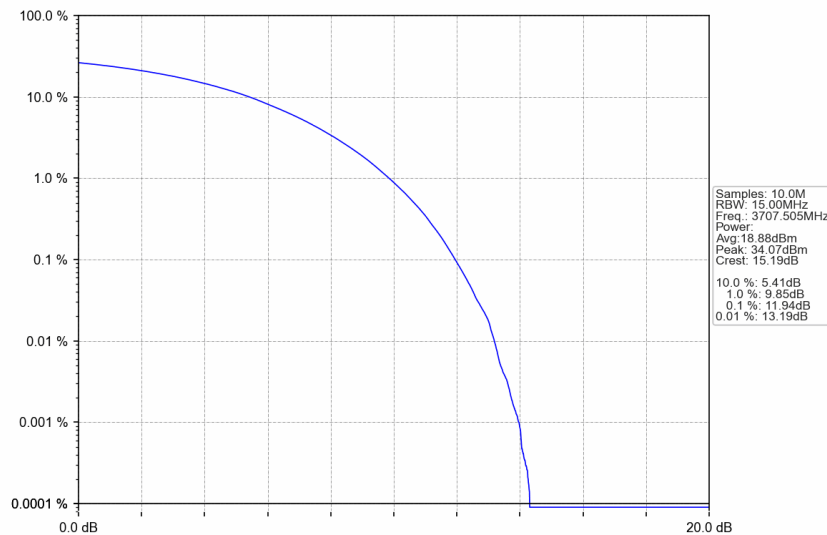
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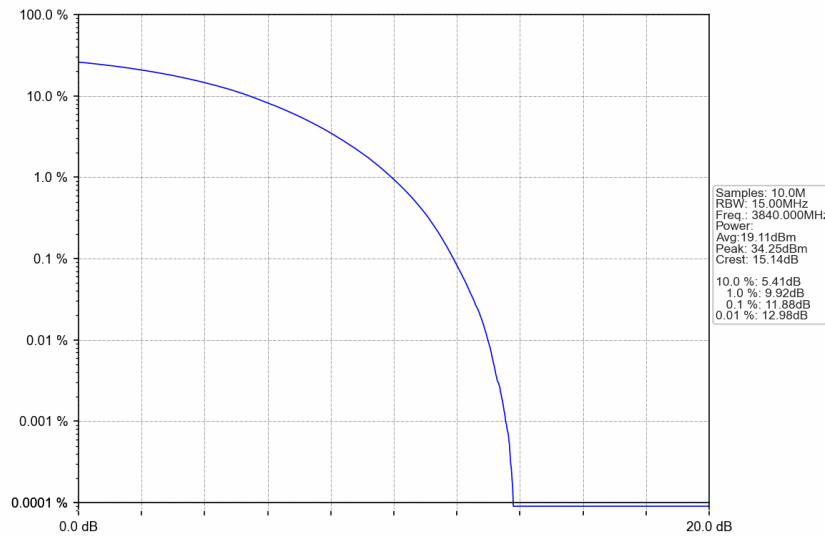
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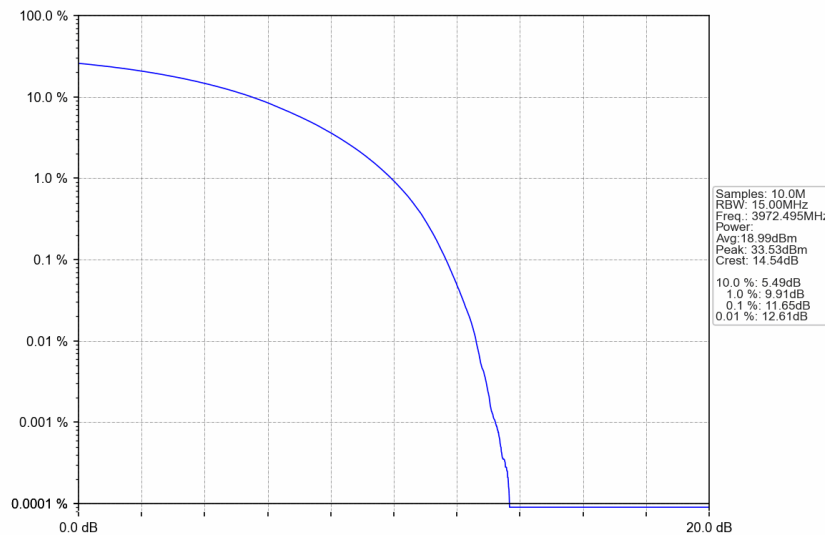
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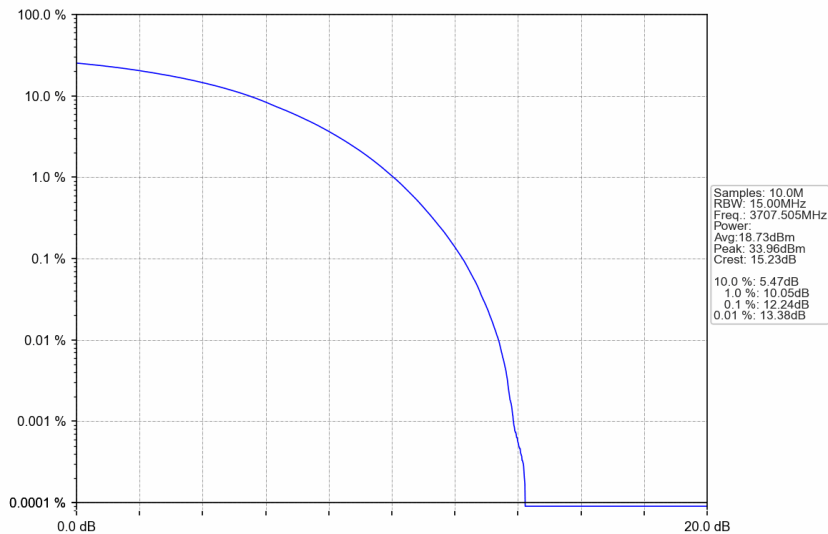


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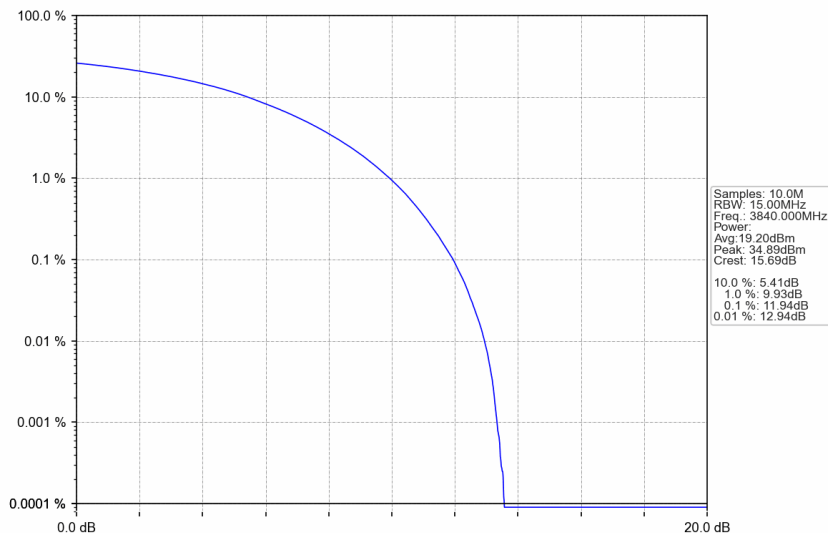
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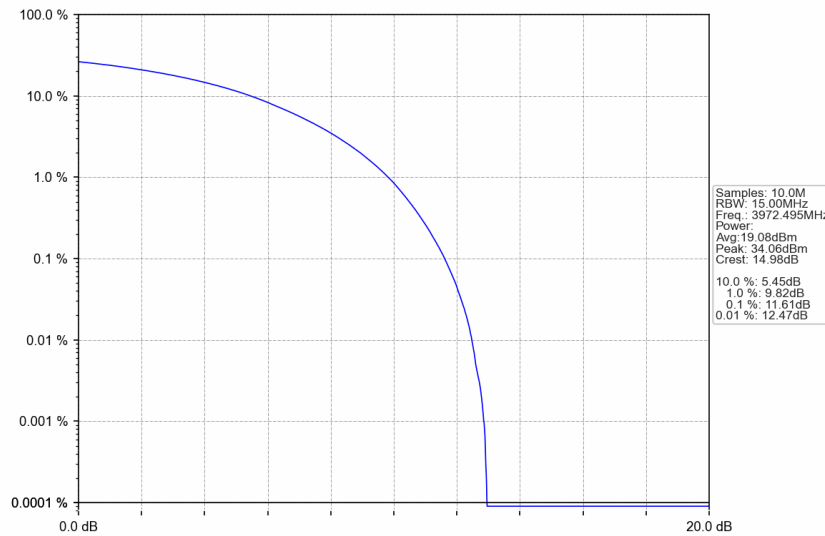
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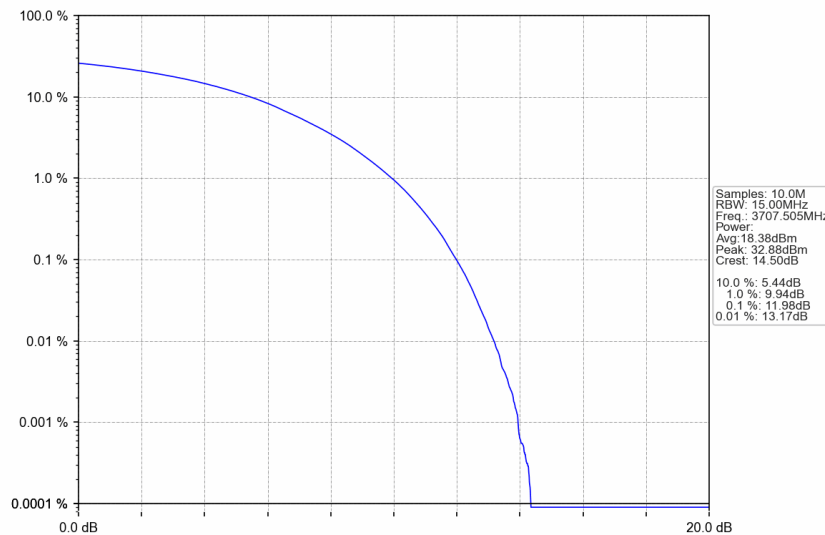
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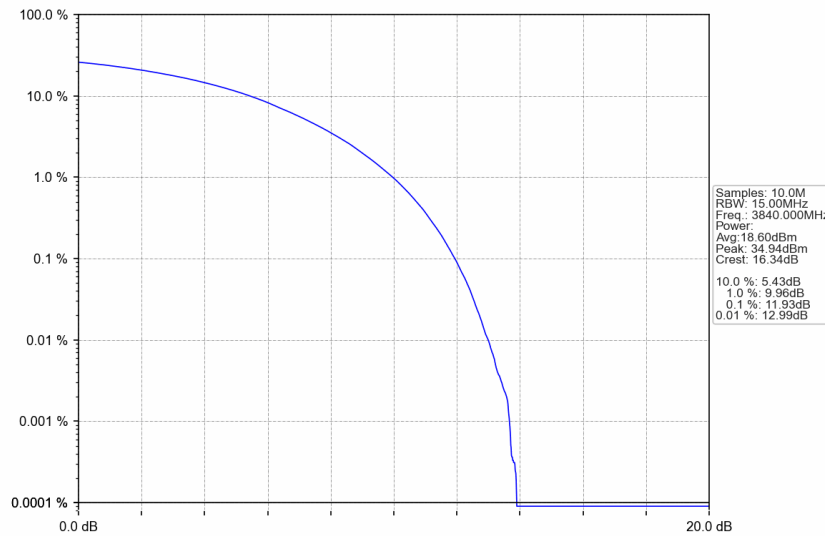
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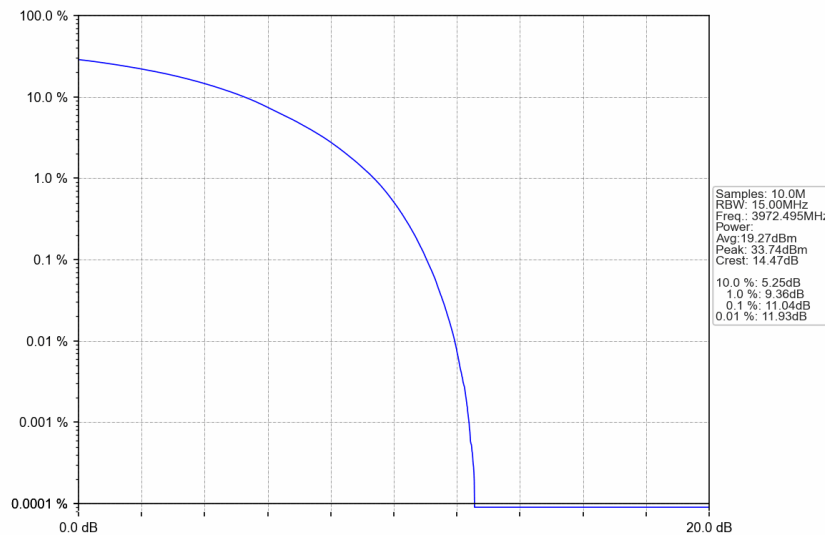
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n77a\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 64 QAM\_3840MHz\_Outer\_Full



n77a\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 64 QAM\_3972.495MHz\_Outer\_Full



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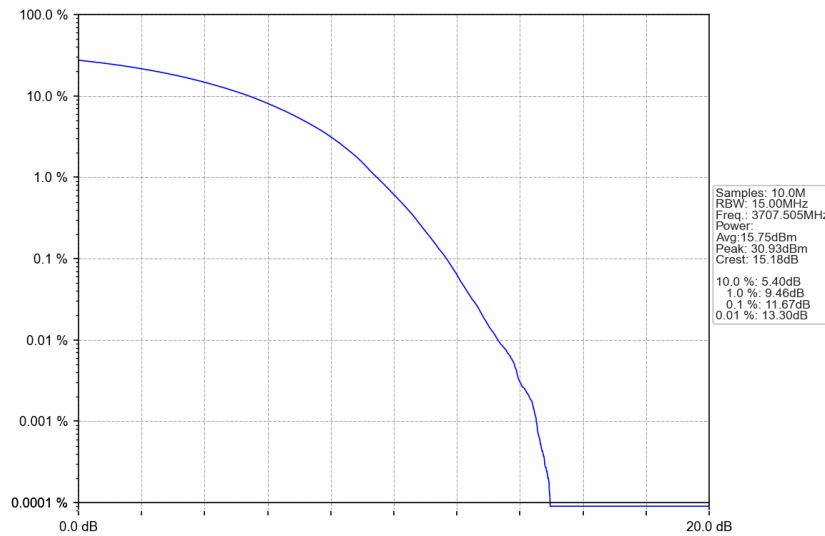
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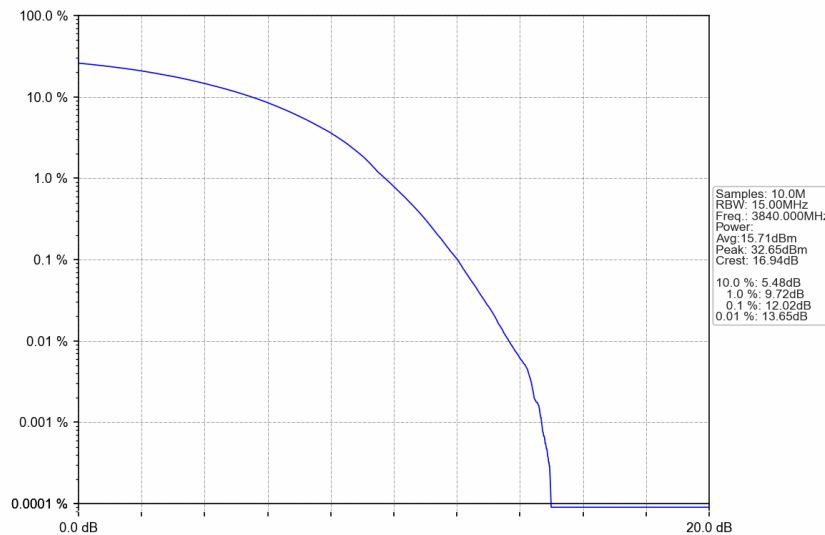
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n77a\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 256 QAM\_3707.505MHz\_Outer\_Full



n77a\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 256 QAM\_3840MHz\_Outer\_Full



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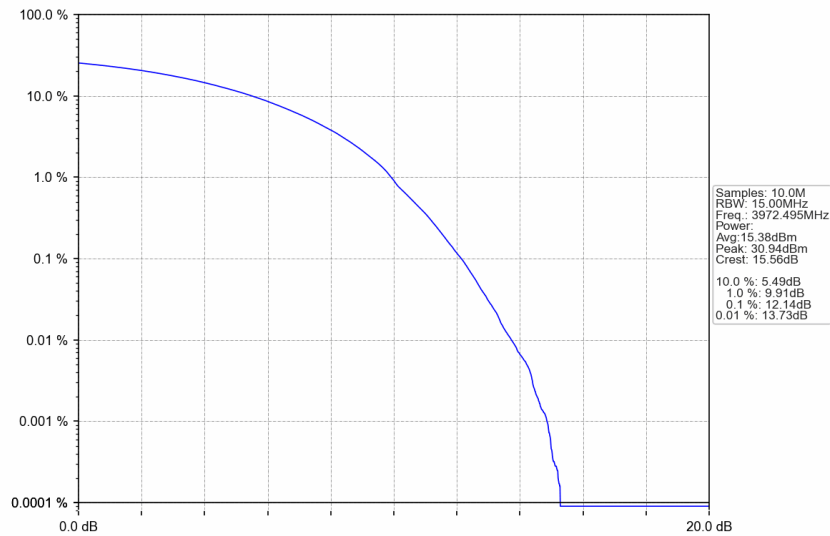


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5.3 15k\_SISO\_20MHz\_NTNV

5.3.1 Test Result

5G NR n77a SCS=15kHz SISO 20MHz NTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant5	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3710.01	Outer_Full	8.67	/	/	<=13	Pass
	3840	Outer_Full	8.32	/	/	<=13	Pass
	3969.99	Outer_Full	7.96	/	/	<=13	Pass
DFT-s-OFDM QPSK	3710.01	Outer_Full	9.67	/	/	<=13	Pass
	3840	Outer_Full	9.17	/	/	<=13	Pass
	3969.99	Outer_Full	10.08	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3710.01	Outer_Full	10.38	/	/	<=13	Pass
	3840	Outer_Full	9.95	/	/	<=13	Pass
	3969.99	Outer_Full	10.31	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3710.01	Outer_Full	9.84	/	/	<=13	Pass
	3840	Outer_Full	10.18	/	/	<=13	Pass
	3969.99	Outer_Full	10.29	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3710.01	Outer_Full	10.11	/	/	<=13	Pass
	3840	Outer_Full	9.97	/	/	<=13	Pass
	3969.99	Outer_Full	10.43	/	/	<=13	Pass
CP-OFDM QPSK	3710.01	Outer_Full	12.01	/	/	<=13	Pass
	3840	Outer_Full	12.07	/	/	<=13	Pass
	3969.99	Outer_Full	11.69	/	/	<=13	Pass
CP-OFDM 16 QAM	3710.01	Outer_Full	11.97	/	/	<=13	Pass
	3840	Outer_Full	12.15	/	/	<=13	Pass
	3969.99	Outer_Full	11.46	/	/	<=13	Pass
CP-OFDM 64 QAM	3710.01	Outer_Full	12.10	/	/	<=13	Pass
	3840	Outer_Full	11.45	/	/	<=13	Pass
	3969.99	Outer_Full	12.03	/	/	<=13	Pass
CP-OFDM 256 QAM	3710.01	Outer_Full	11.84	/	/	<=13	Pass
	3840	Outer_Full	11.96	/	/	<=13	Pass
	3969.99	Outer_Full	11.71	/	/	<=13	Pass

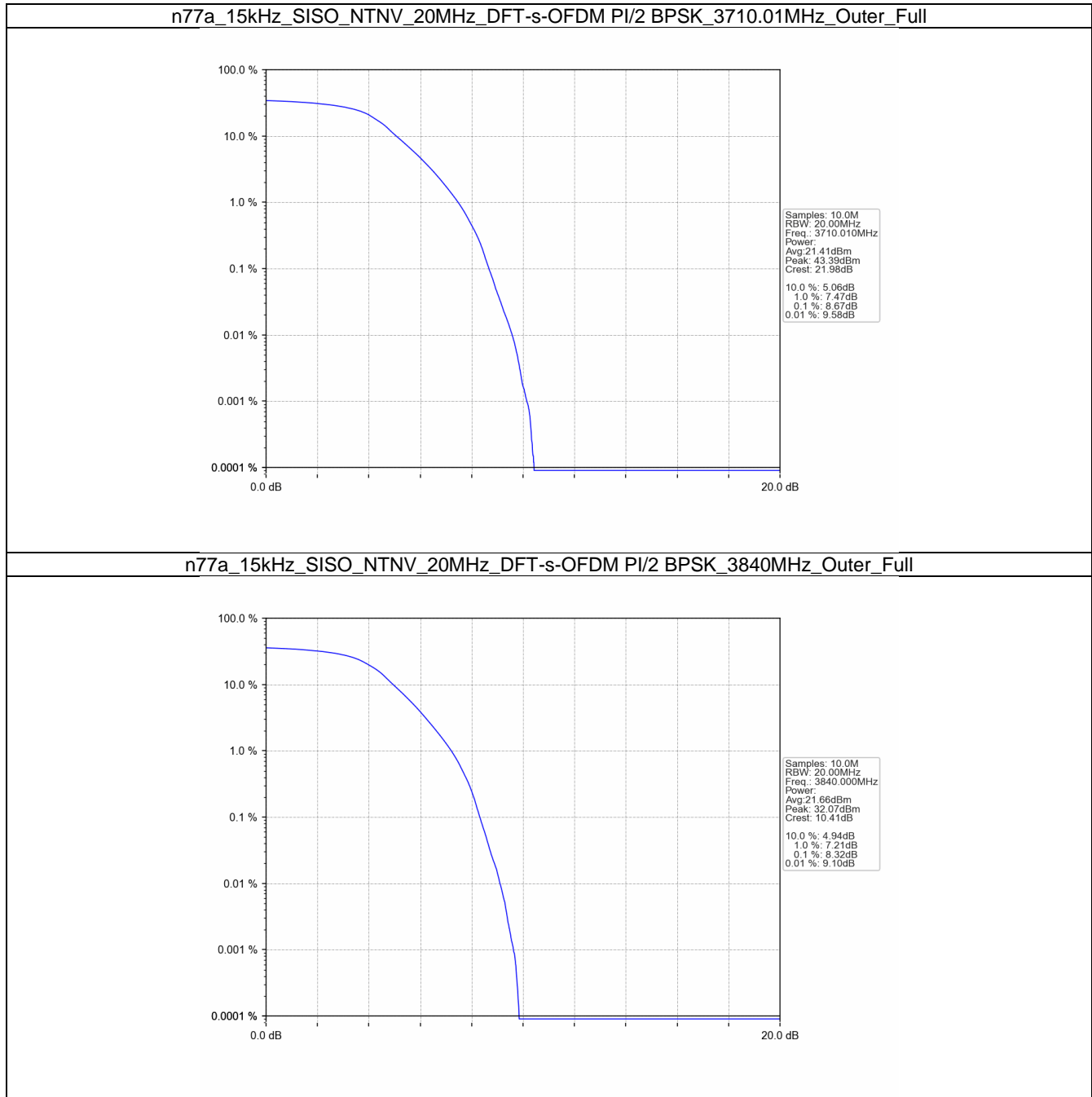


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5.3.2 Test Graph



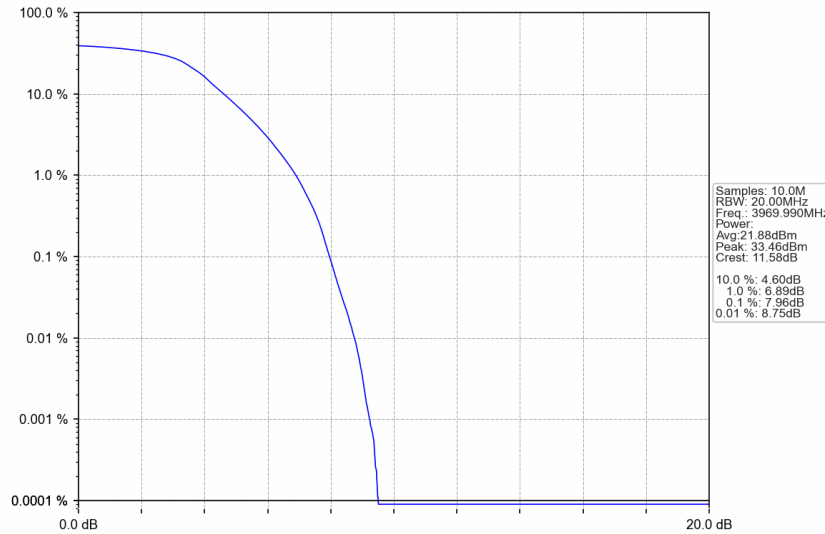
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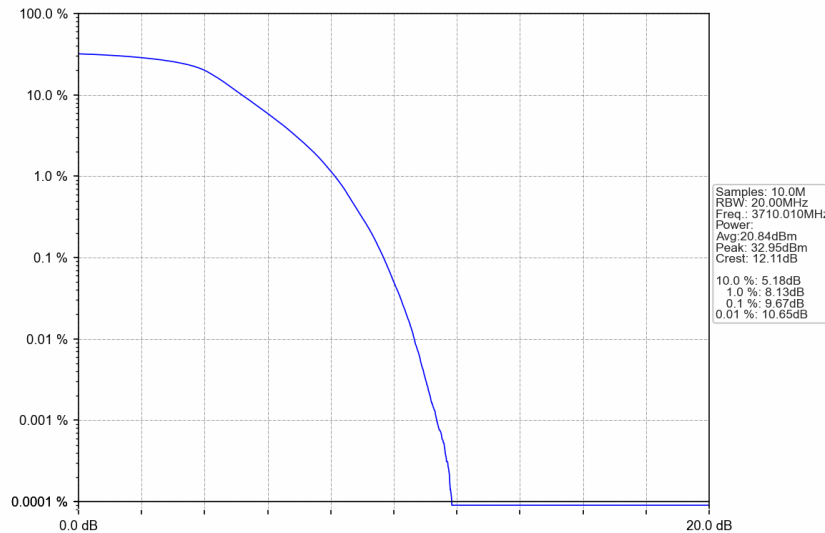
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n77a\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM PI/2 BPSK\_3969.99MHz\_Outer\_Full



n77a\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM QPSK\_3710.01MHz\_Outer\_Full



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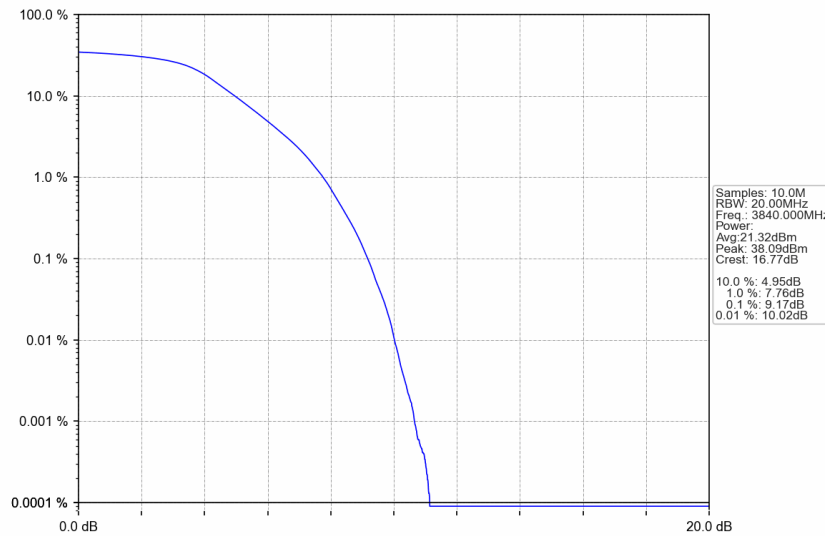


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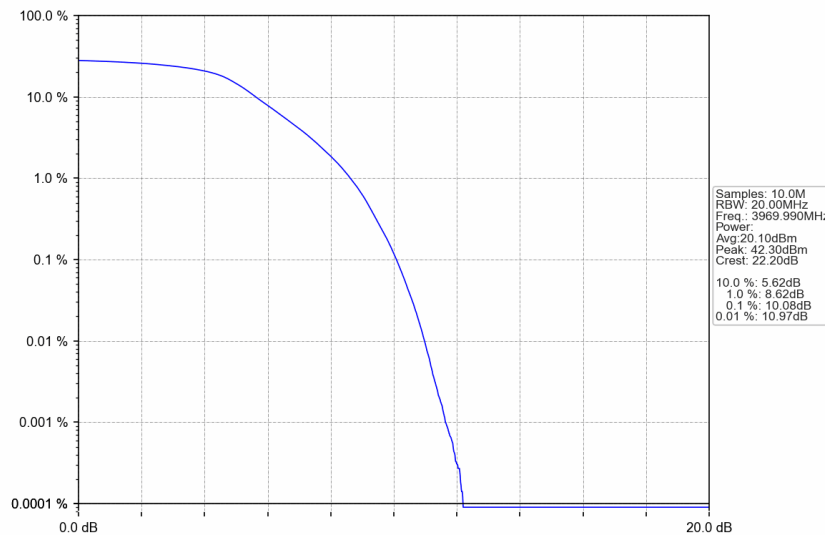
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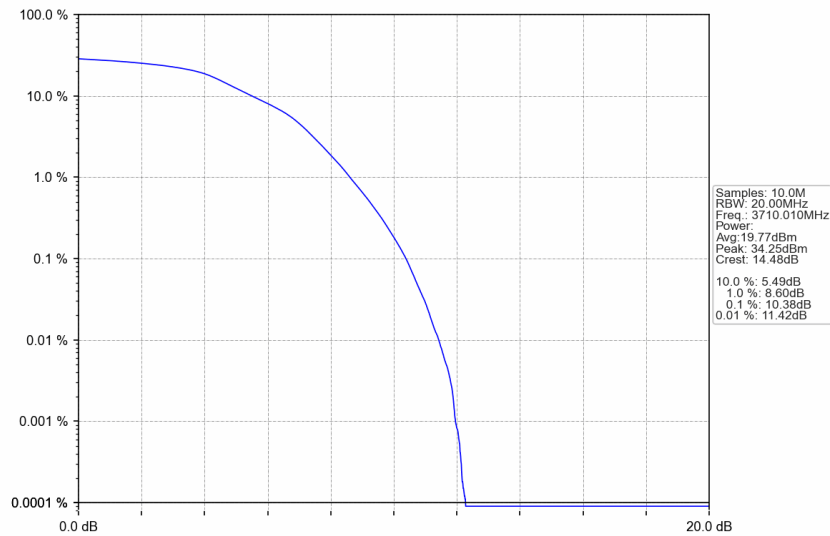


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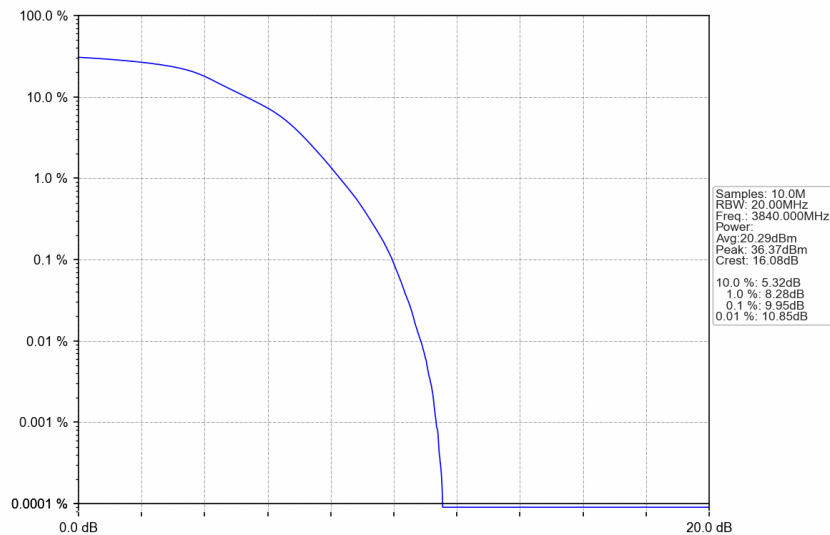
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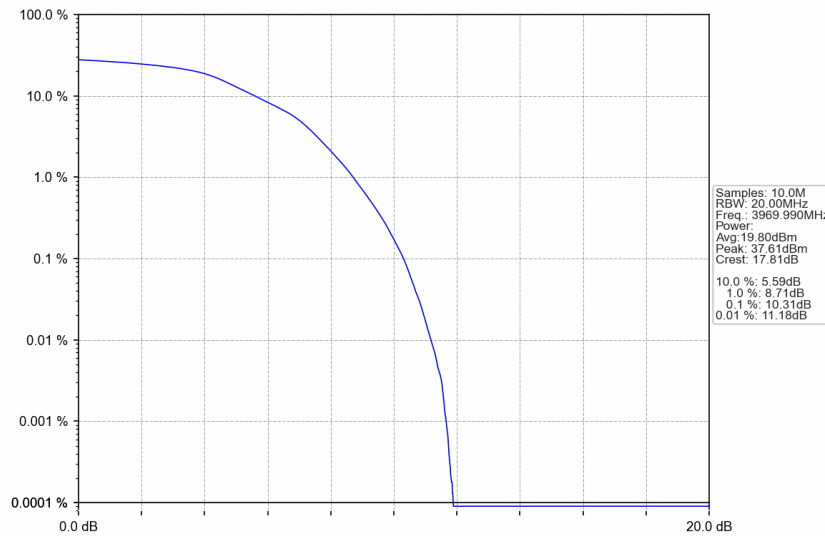


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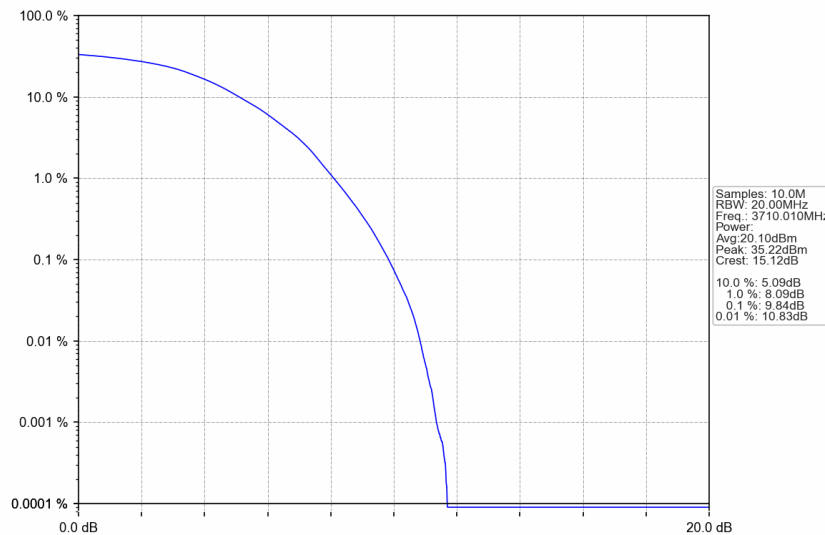
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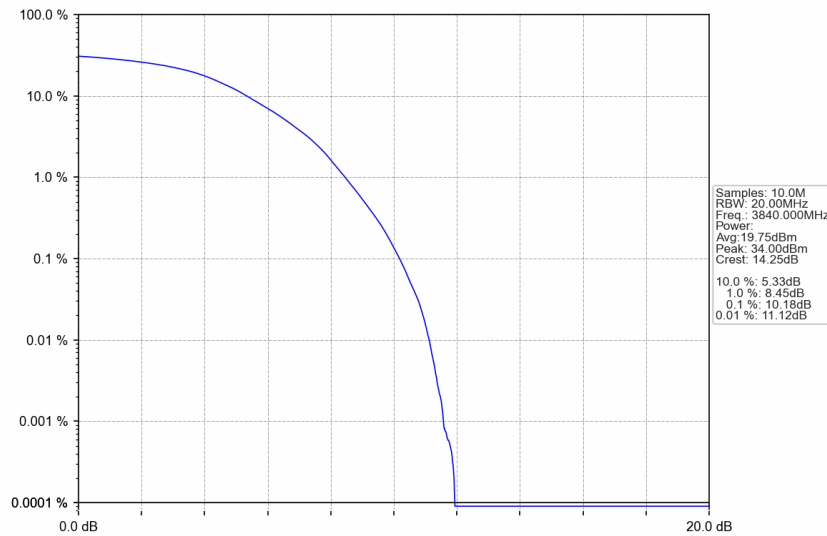
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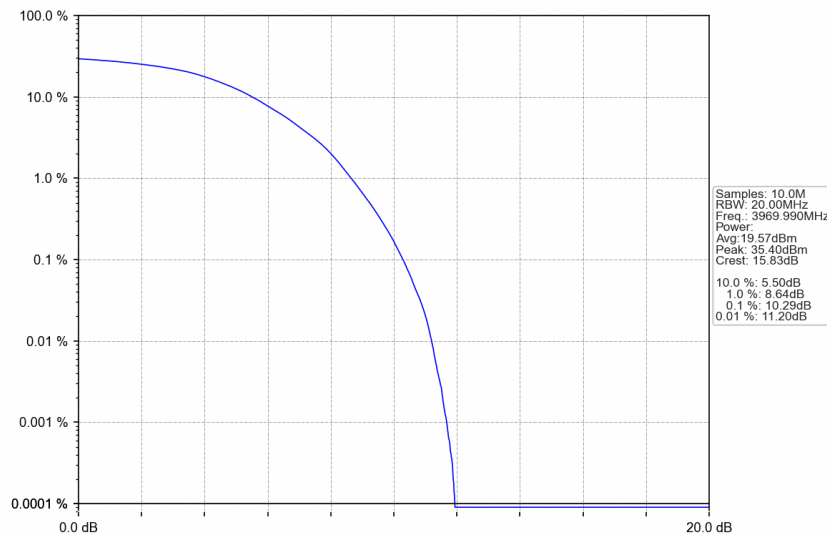
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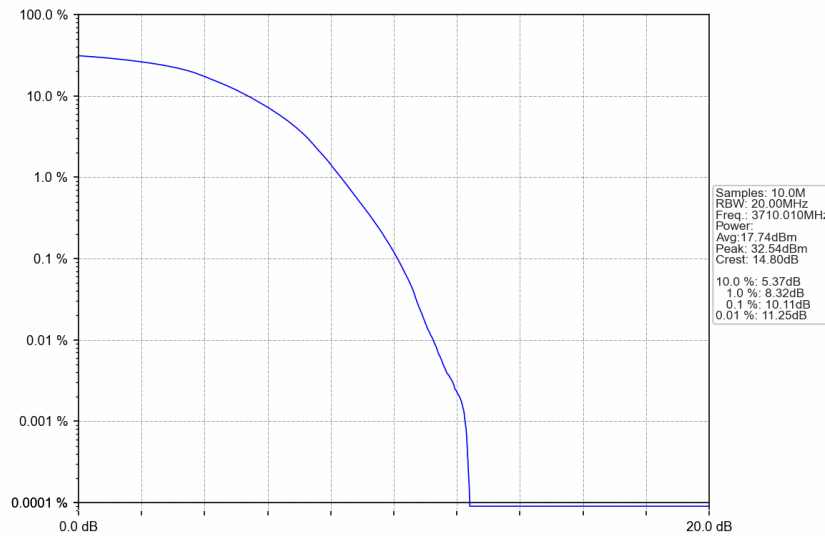
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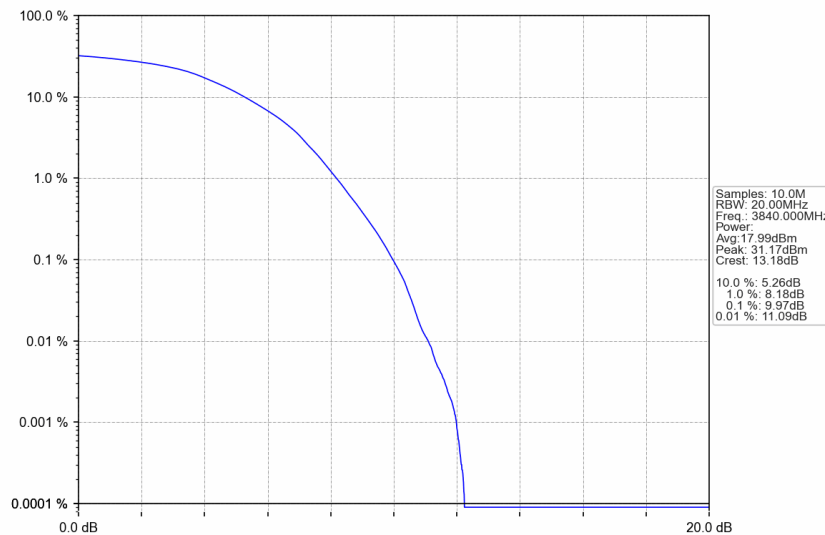
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n77a\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM 256 QAM\_3710.01MHz\_Outer\_Full



n77a\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM 256 QAM\_3840MHz\_Outer\_Full



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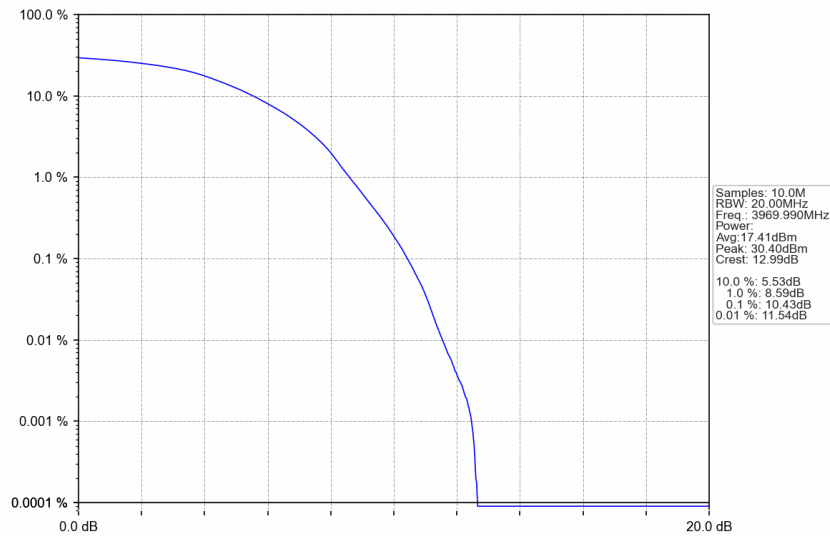
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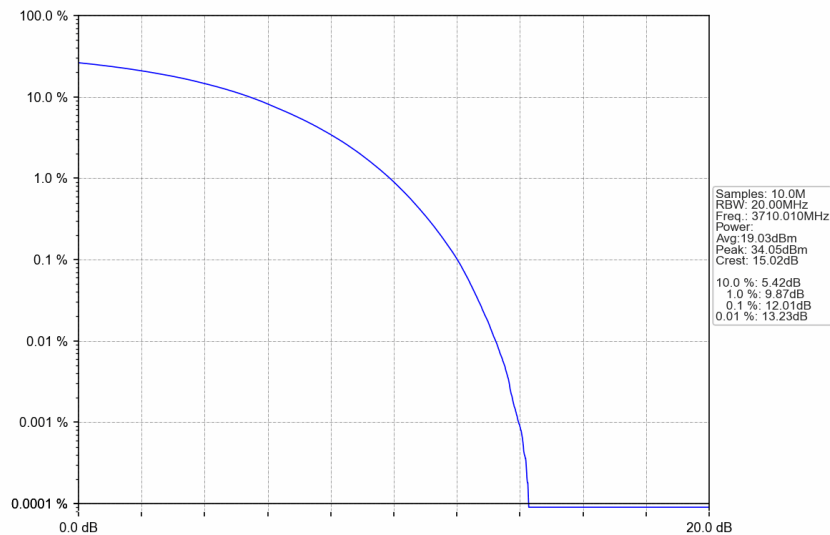
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n77a\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM 256 QAM\_3969.99MHz\_Outer\_Full



n77a\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_3710.01MHz\_Outer\_Full



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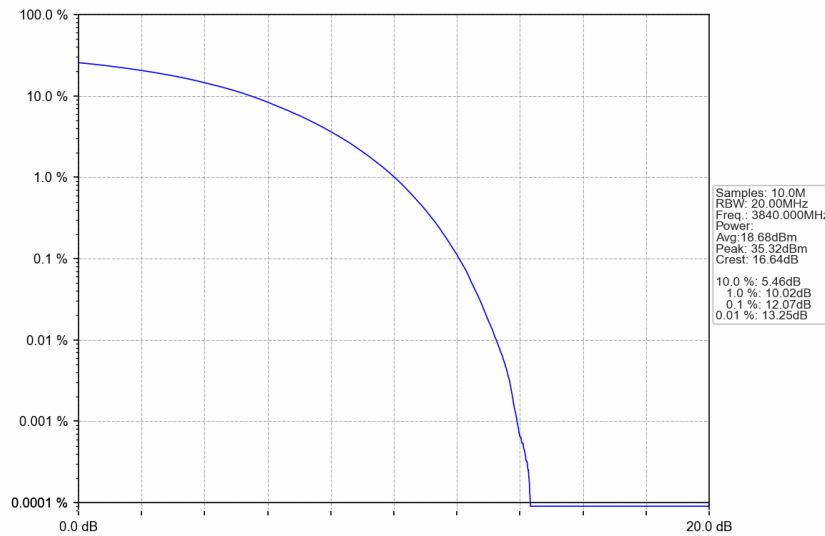
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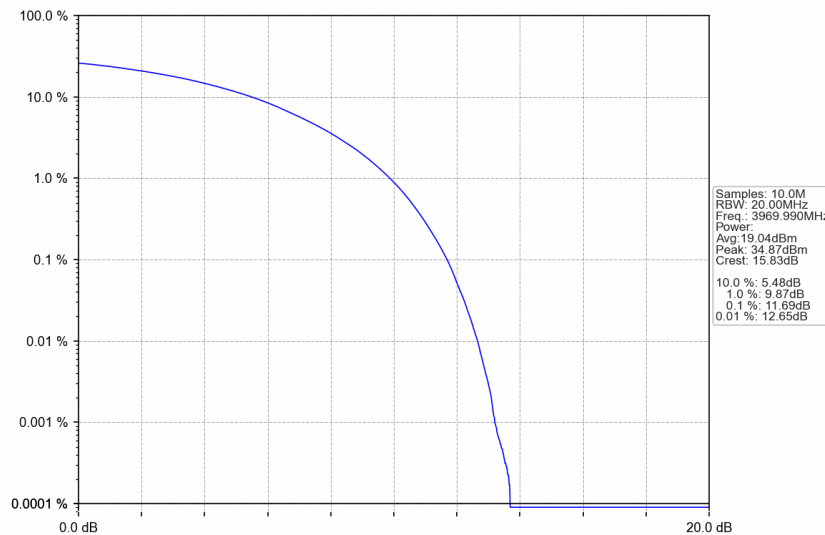
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n77a\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_3969.99MHz\_Outer\_Full



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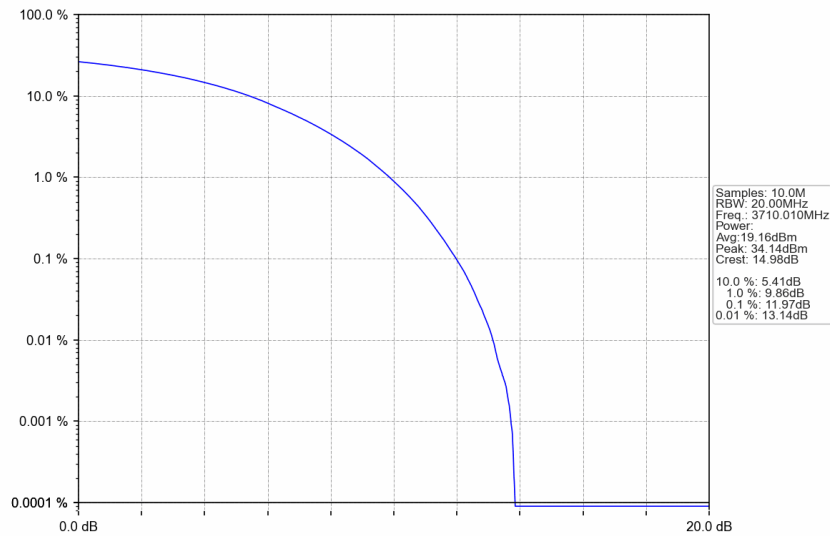
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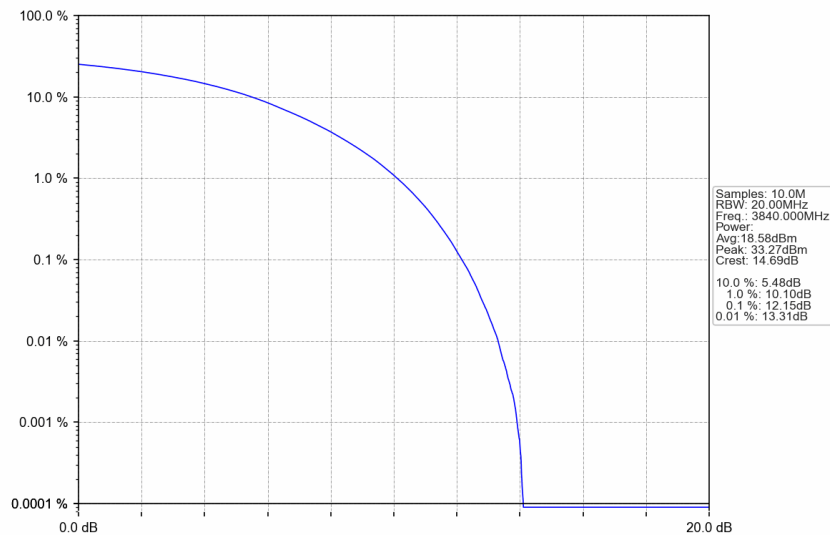




n77a\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 16 QAM\_3710.01MHz\_Outer\_Full



n77a\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 16 QAM\_3840MHz\_Outer\_Full

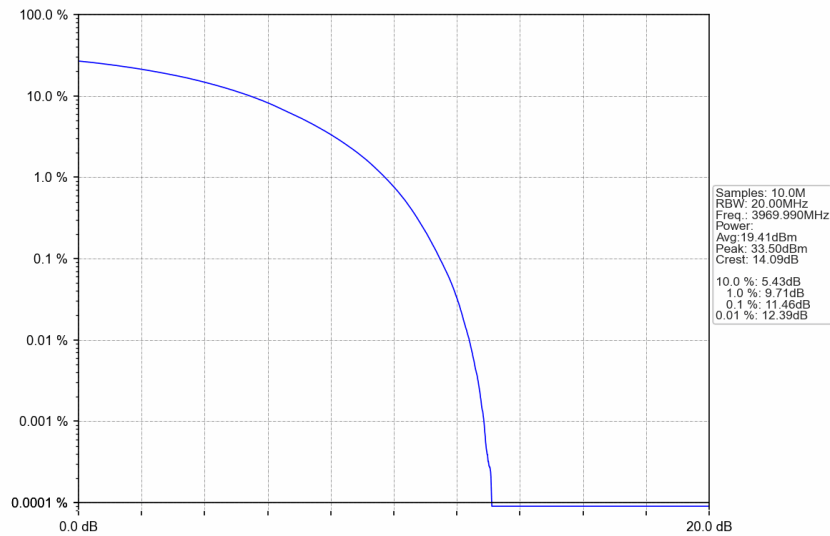


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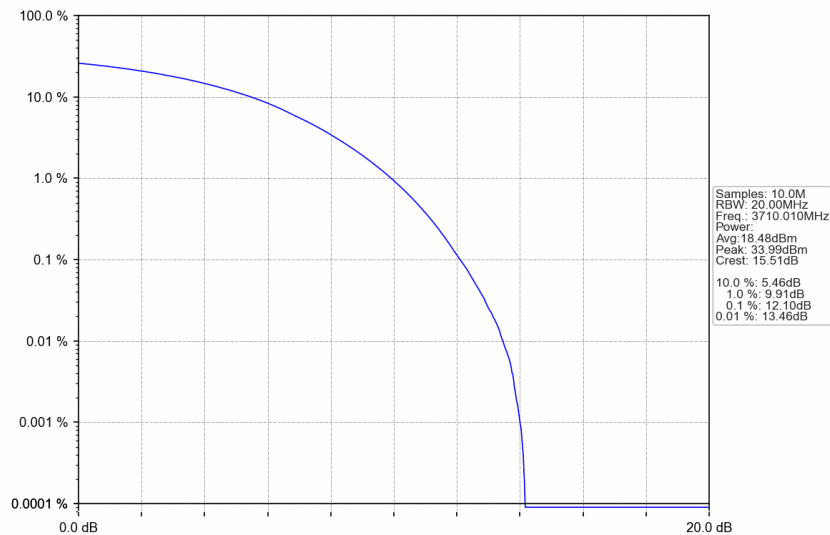
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n77a\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 16 QAM\_3969.99MHz\_Outer\_Full



n77a\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_3710.01MHz\_Outer\_Full



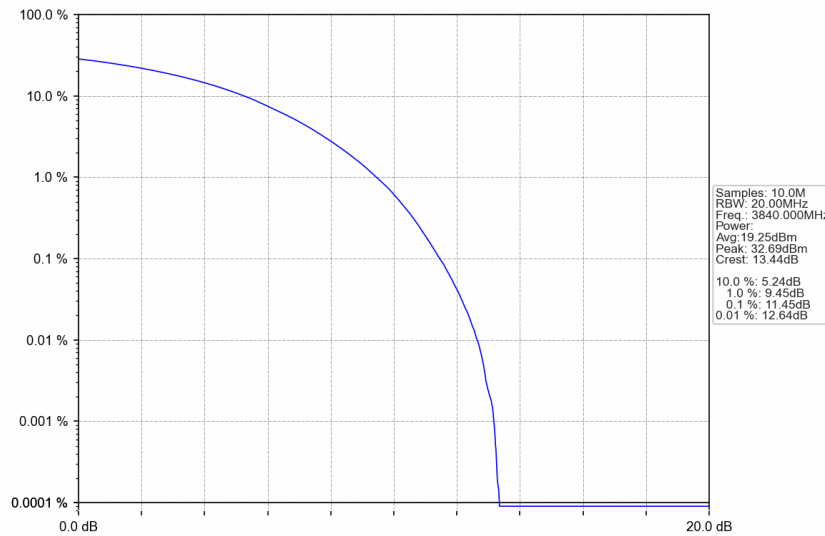
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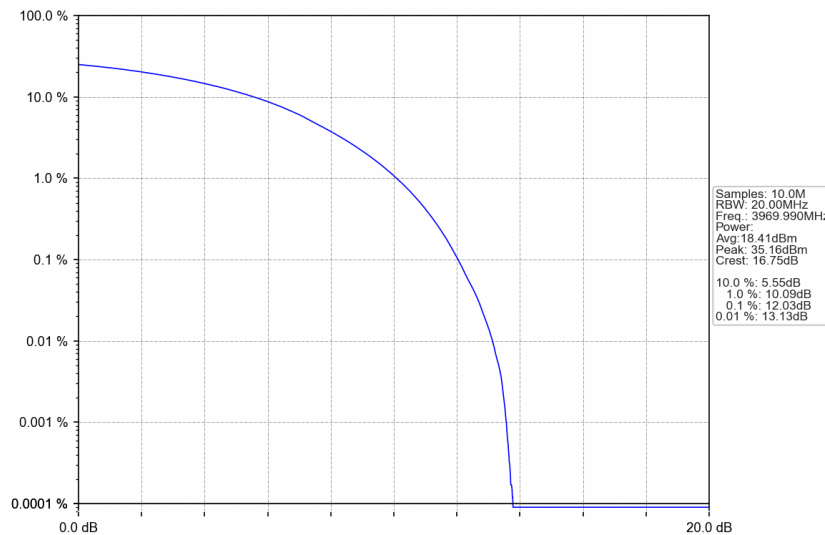
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n77a\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_3969.99MHz\_Outer\_Full



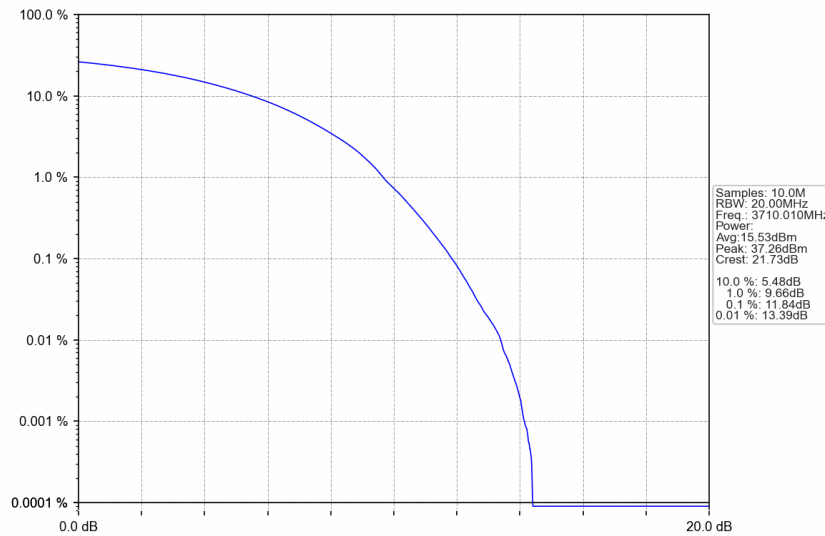
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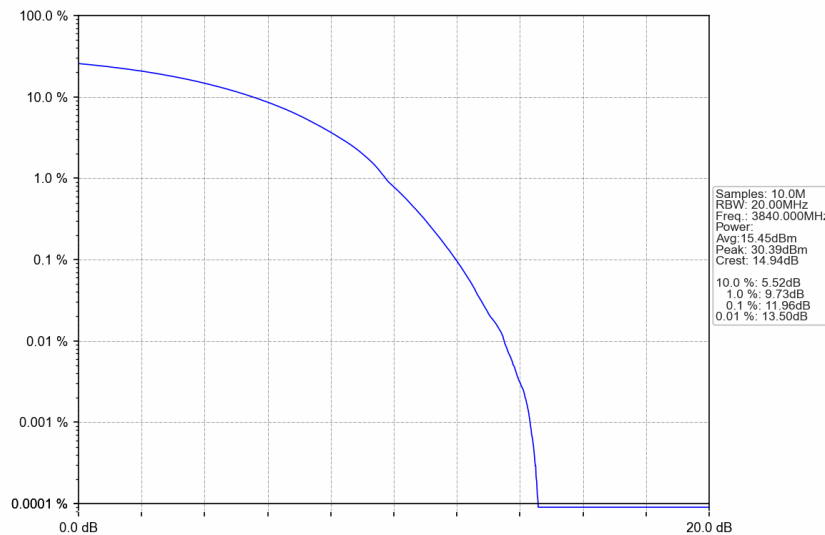
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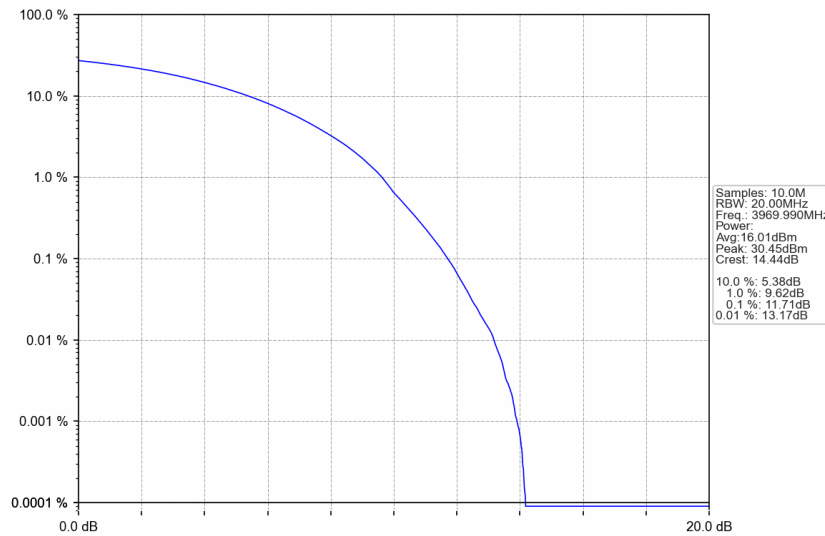


Report No.: SEWM2311000456RG02

Rev.: 01

Page: 467 of 1239

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5.4 15k\_SISO\_25MHz\_NTNV

5.4.1 Test Result

5G NR n77a SCS=15kHz SISO 25MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant5	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3712.5	Outer_Full	8.68	/	/	<=13	Pass
	3840	Outer_Full	8.52	/	/	<=13	Pass
	3967.5	Outer_Full	8.90	/	/	<=13	Pass
DFT-s-OFDM QPSK	3712.5	Outer_Full	9.41	/	/	<=13	Pass
	3840	Outer_Full	9.24	/	/	<=13	Pass
	3967.5	Outer_Full	9.18	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3712.5	Outer_Full	10.08	/	/	<=13	Pass
	3840	Outer_Full	9.60	/	/	<=13	Pass
	3967.5	Outer_Full	10.30	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3712.5	Outer_Full	10.42	/	/	<=13	Pass
	3840	Outer_Full	10.26	/	/	<=13	Pass
	3967.5	Outer_Full	10.08	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3712.5	Outer_Full	10.51	/	/	<=13	Pass
	3840	Outer_Full	9.81	/	/	<=13	Pass
	3967.5	Outer_Full	10.71	/	/	<=13	Pass
CP-OFDM QPSK	3712.5	Outer_Full	11.98	/	/	<=13	Pass
	3840	Outer_Full	11.95	/	/	<=13	Pass
	3967.5	Outer_Full	11.69	/	/	<=13	Pass
CP-OFDM 16 QAM	3712.5	Outer_Full	11.87	/	/	<=13	Pass
	3840	Outer_Full	12.14	/	/	<=13	Pass
	3967.5	Outer_Full	11.94	/	/	<=13	Pass
CP-OFDM 64 QAM	3712.5	Outer_Full	11.74	/	/	<=13	Pass
	3840	Outer_Full	11.87	/	/	<=13	Pass
	3967.5	Outer_Full	11.85	/	/	<=13	Pass
CP-OFDM 256 QAM	3712.5	Outer_Full	11.96	/	/	<=13	Pass
	3840	Outer_Full	11.95	/	/	<=13	Pass
	3967.5	Outer_Full	11.97	/	/	<=13	Pass

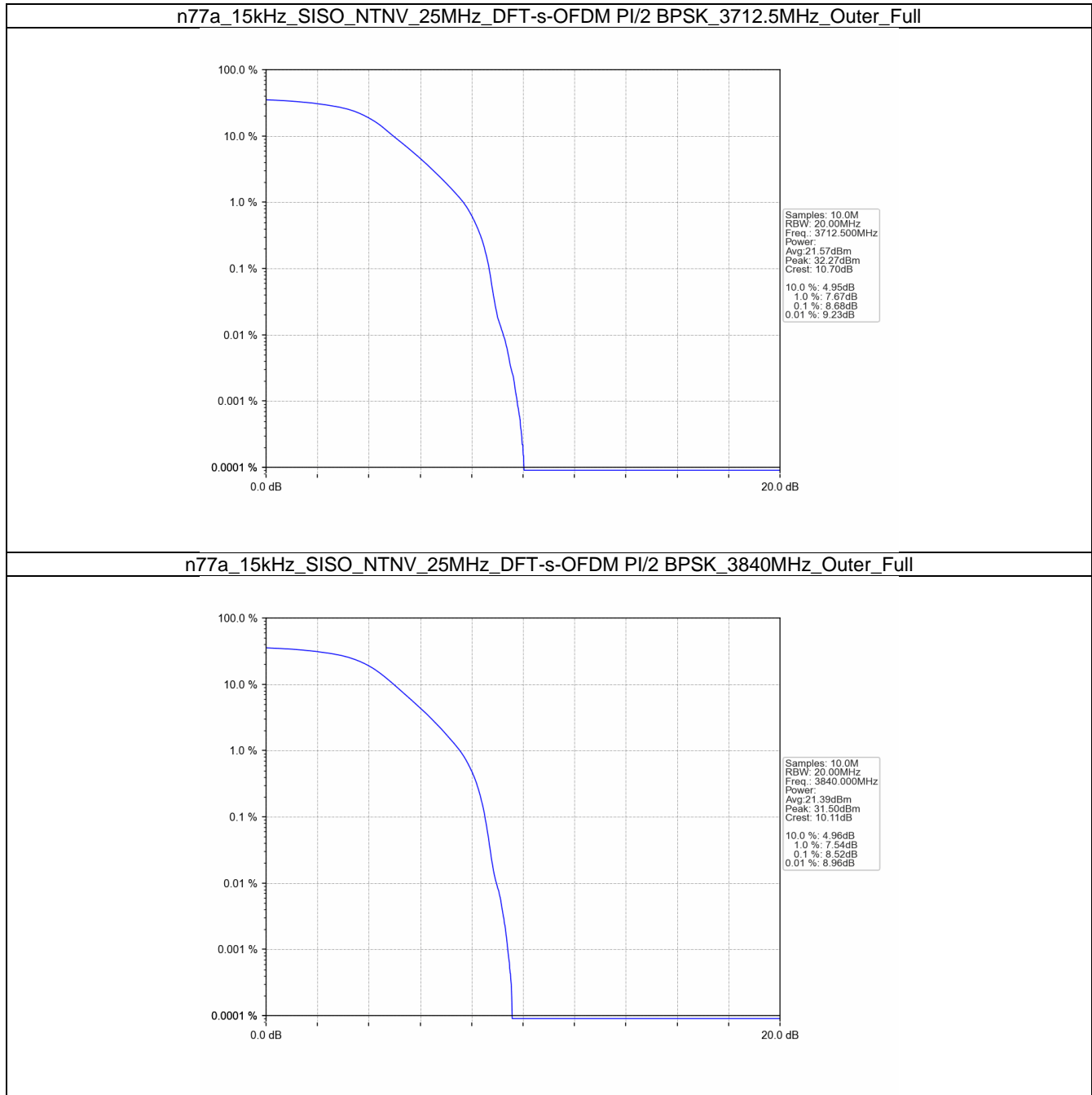


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5.4.2 Test Graph



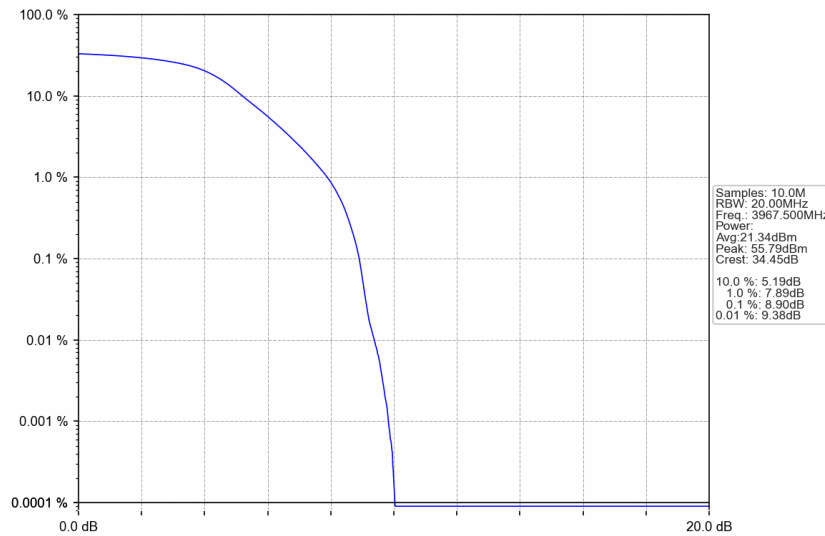
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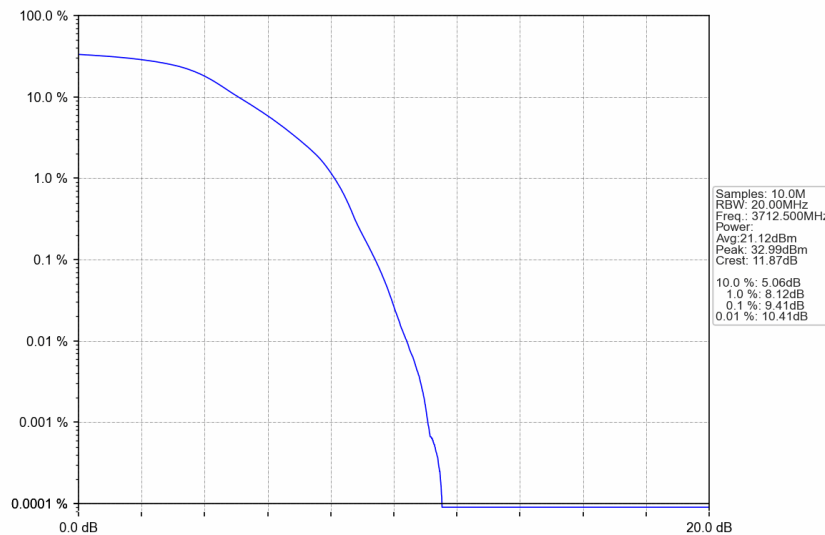
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n77a\_15kHz\_SISO\_NTNV\_25MHz\_DFT-s-OFDM PI/2 BPSK\_3967.5MHz\_Outer\_Full



n77a\_15kHz\_SISO\_NTNV\_25MHz\_DFT-s-OFDM QPSK\_3712.5MHz\_Outer\_Full



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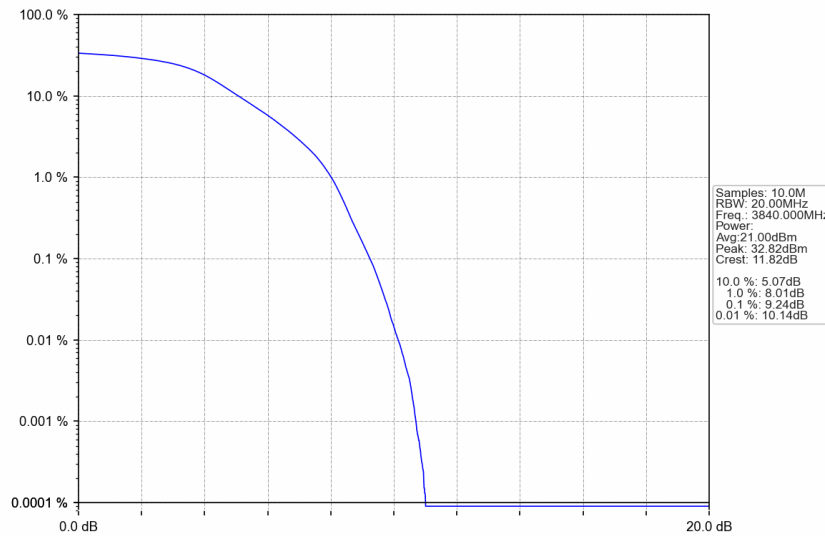
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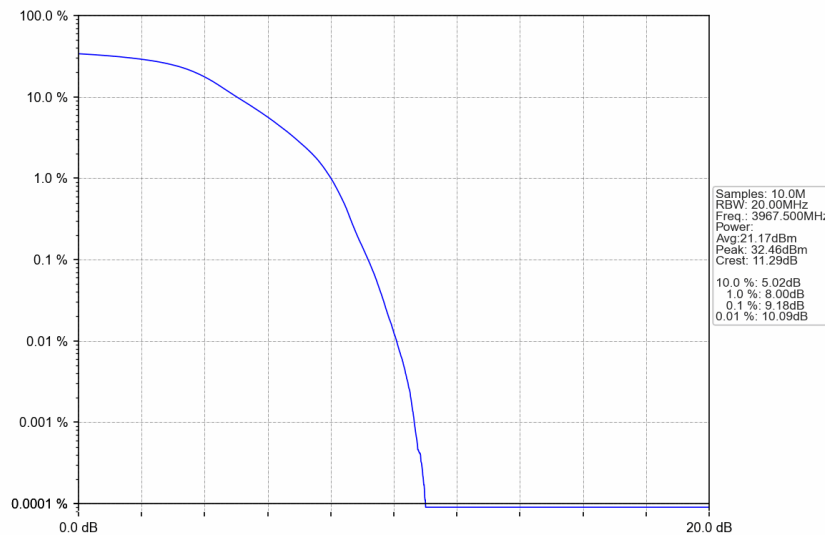




n77a\_15kHz\_SISO\_NTNV\_25MHz\_DFT-s-OFDM QPSK\_3840MHz\_Outer\_Full



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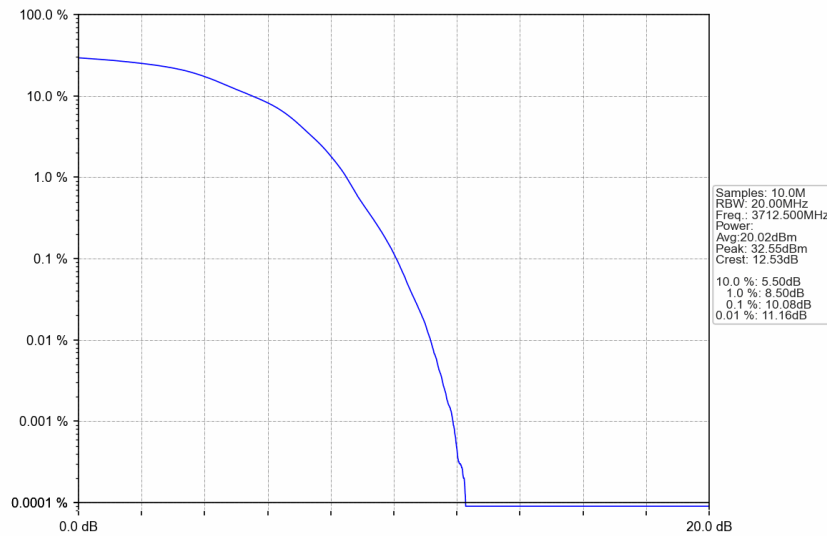


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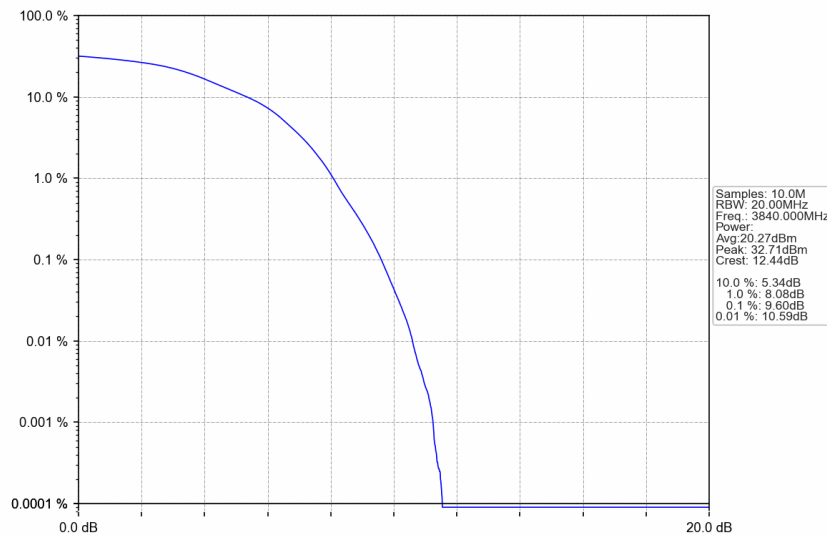
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n77a\_15kHz\_SISO\_NTNV\_25MHz\_DFT-s-OFDM 16 QAM\_3840MHz\_Outer\_Full



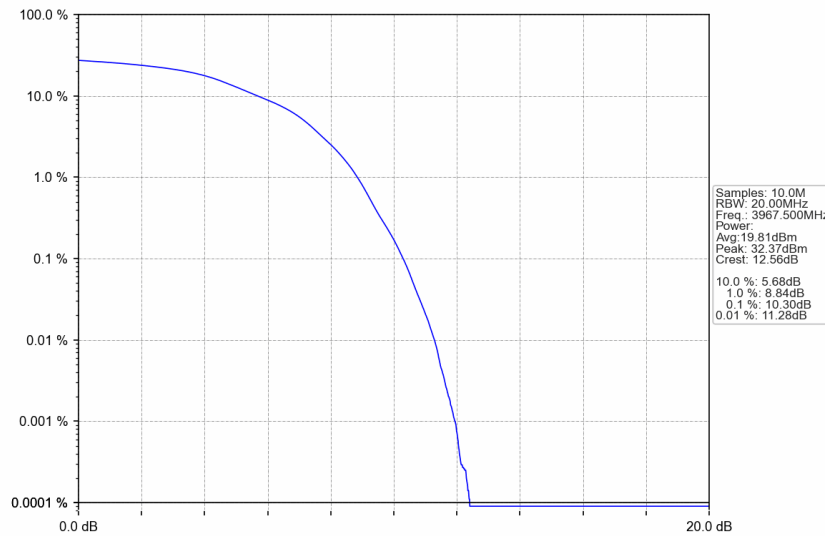
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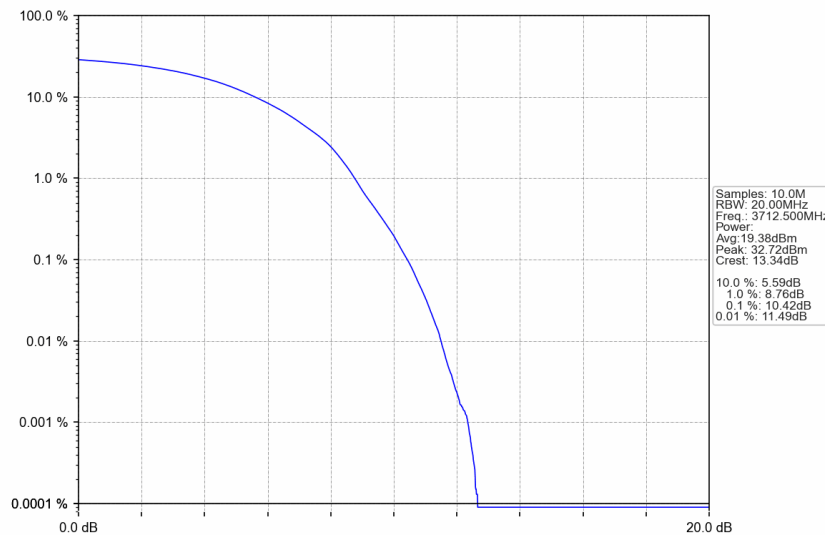
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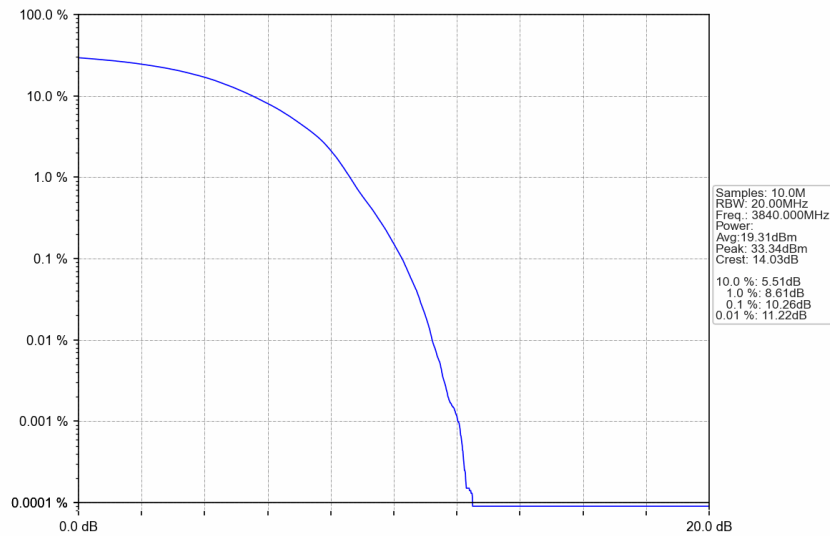
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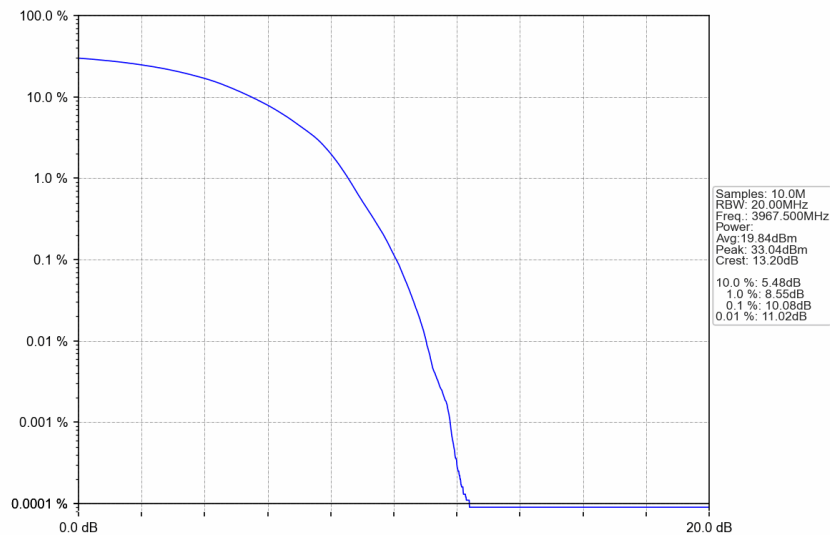
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n77a\_15kHz\_SISO\_NTNV\_25MHz\_DFT-s-OFDM 64 QAM\_3840MHz\_Outer\_Full



n77a\_15kHz\_SISO\_NTNV\_25MHz\_DFT-s-OFDM 64 QAM\_3967.5MHz\_Outer\_Full



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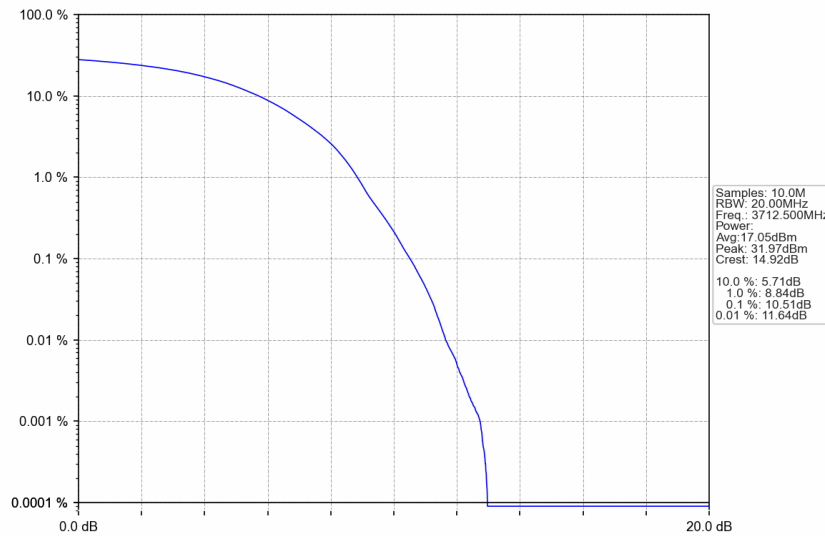
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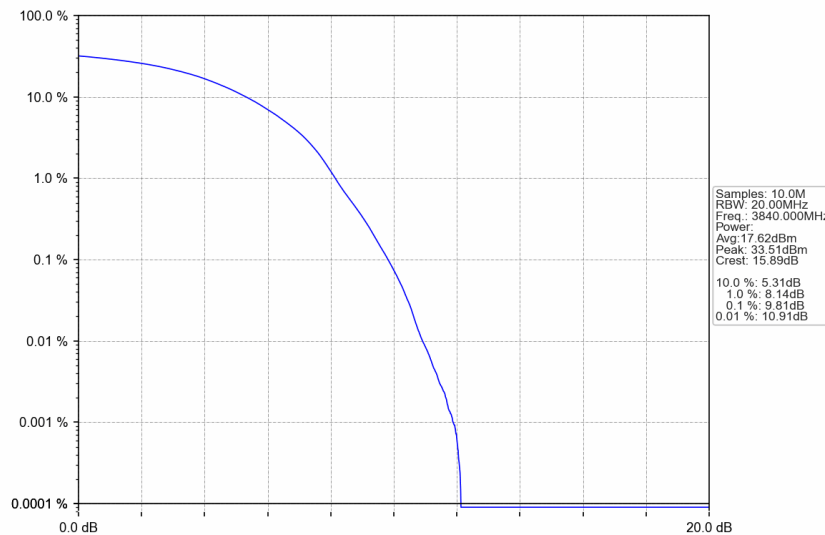
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n77a\_15kHz\_SISO\_NTNV\_25MHz\_DFT-s-OFDM 256 QAM\_3712.5MHz\_Outer\_Full



n77a\_15kHz\_SISO\_NTNV\_25MHz\_DFT-s-OFDM 256 QAM\_3840MHz\_Outer\_Full



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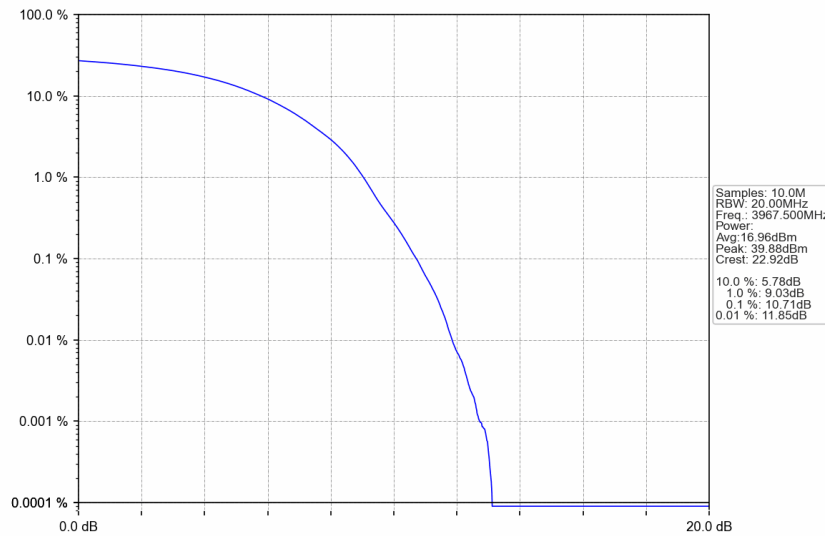
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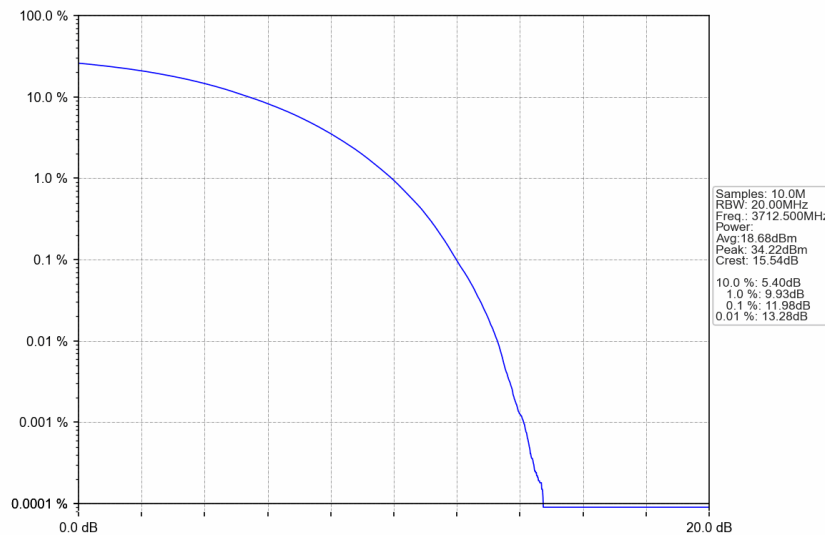
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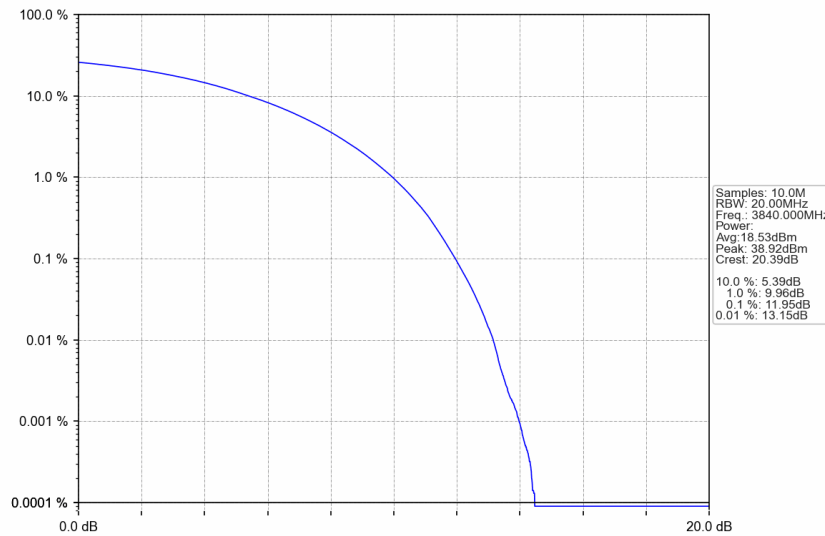
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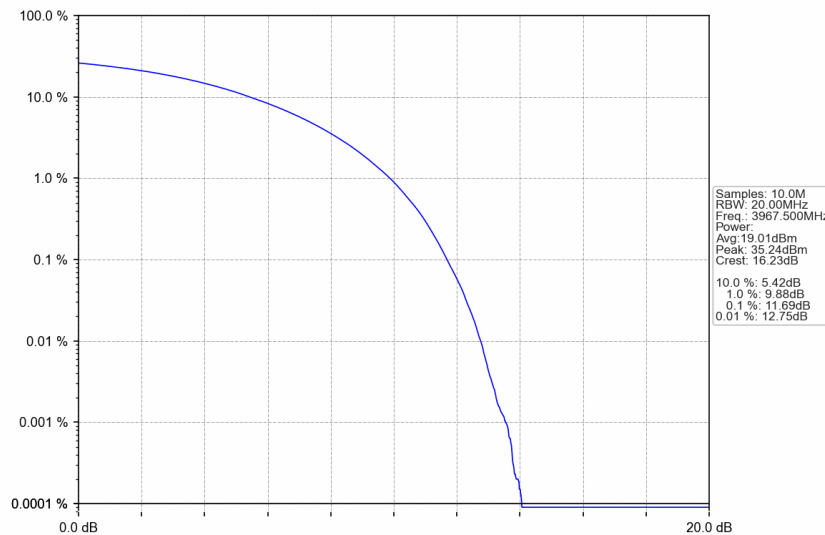
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n77a\_15kHz\_SISO\_NTNV\_25MHz\_CP-OFDM QPSK\_3967.5MHz\_Outer\_Full



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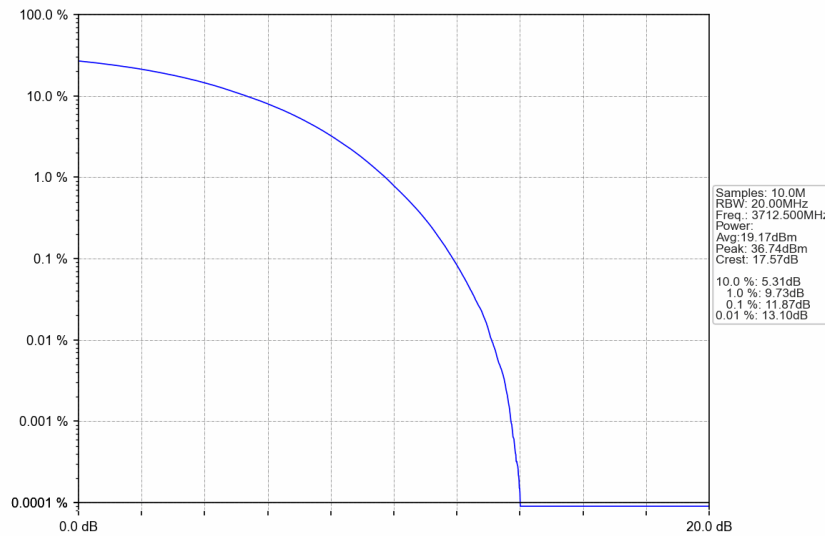
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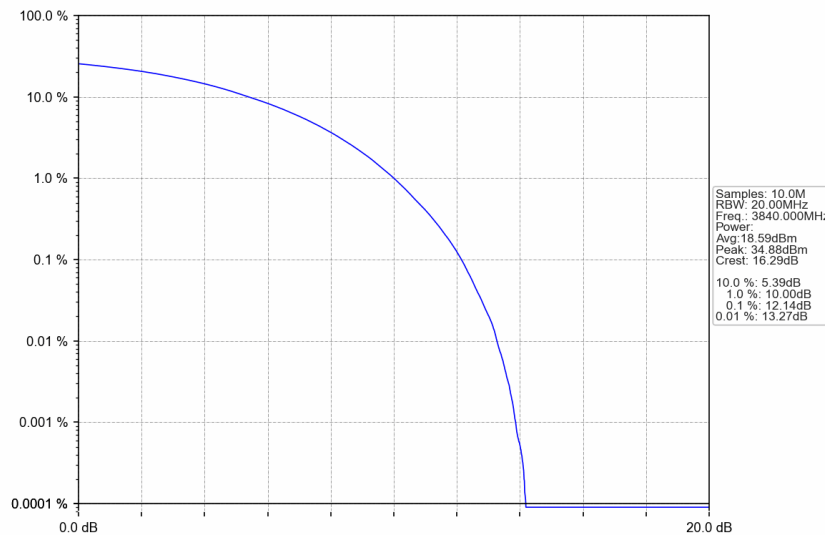
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n77a\_15kHz\_SISO\_NTNV\_25MHz\_CP-OFDM 16 QAM\_3712.5MHz\_Outer\_Full



n77a\_15kHz\_SISO\_NTNV\_25MHz\_CP-OFDM 16 QAM\_3840MHz\_Outer\_Full



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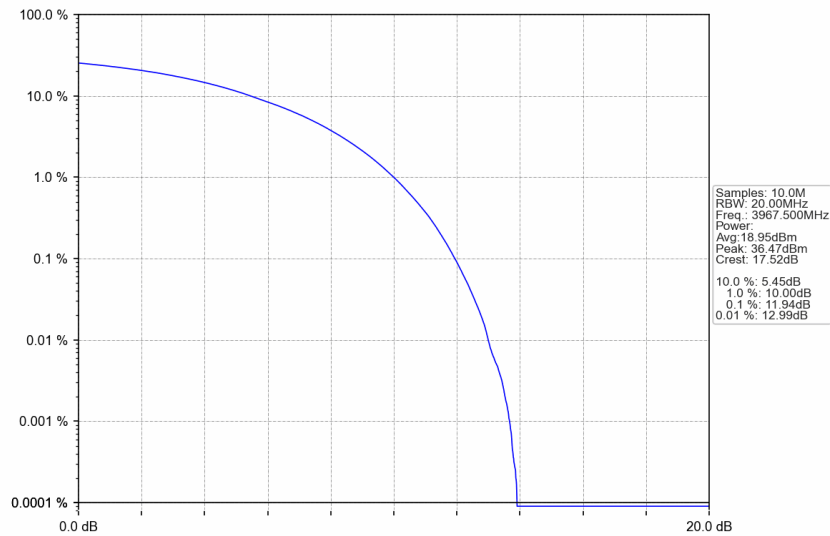
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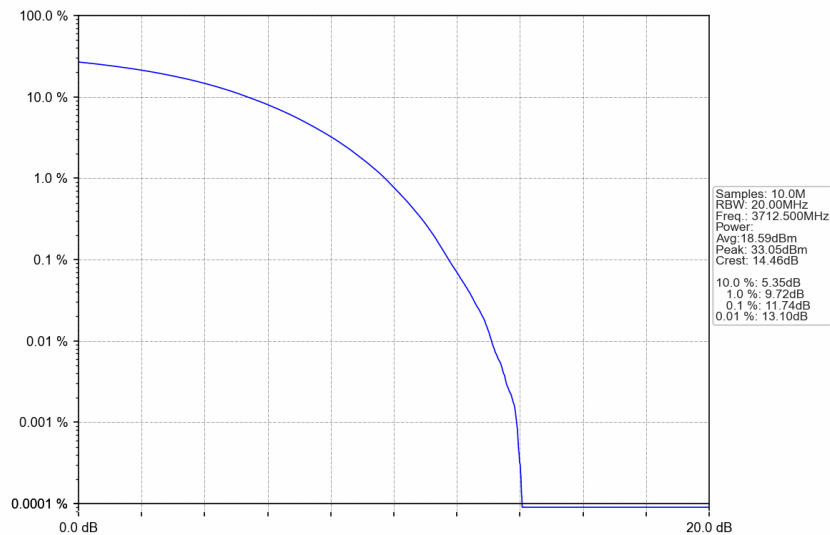




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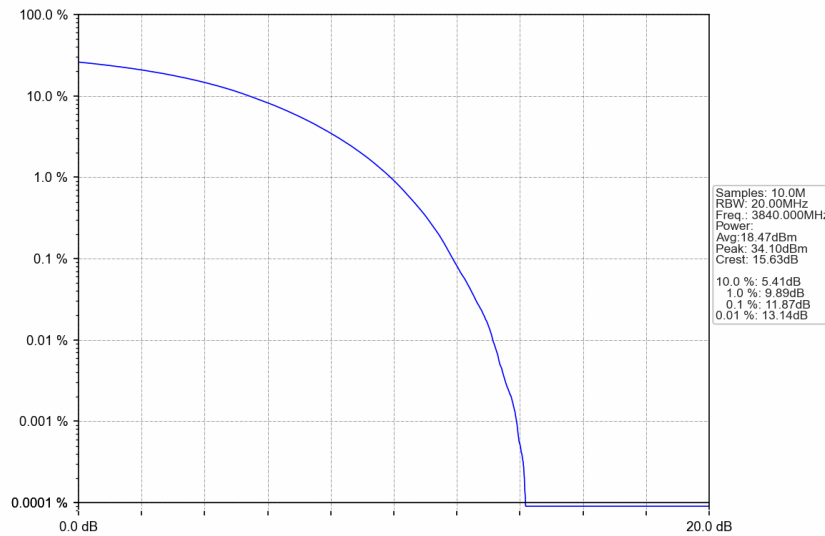


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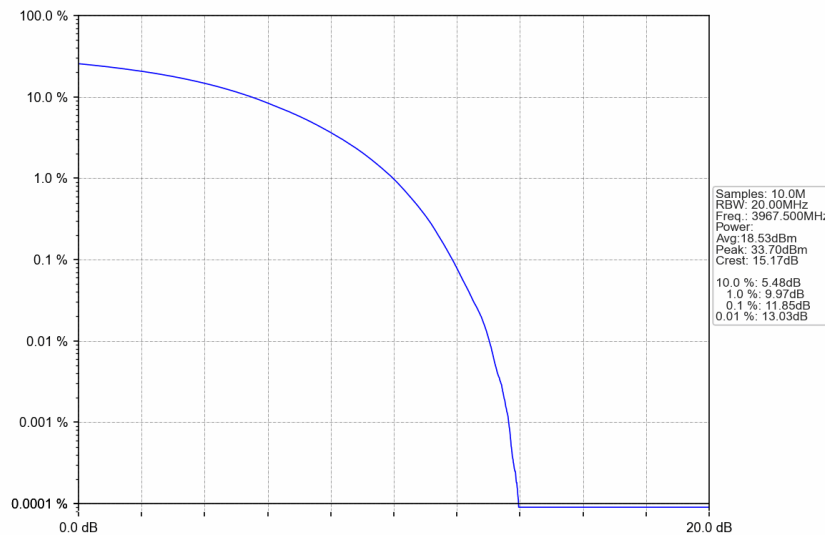
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n77a\_15kHz\_SISO\_NTNV\_25MHz\_CP-OFDM 64 QAM\_3840MHz\_Outer\_Full



n77a\_15kHz\_SISO\_NTNV\_25MHz\_CP-OFDM 64 QAM\_3967.5MHz\_Outer\_Full

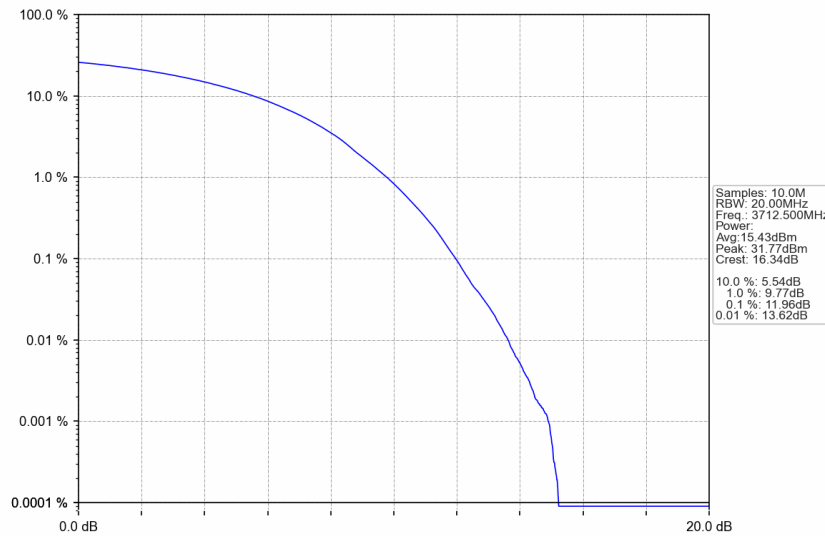


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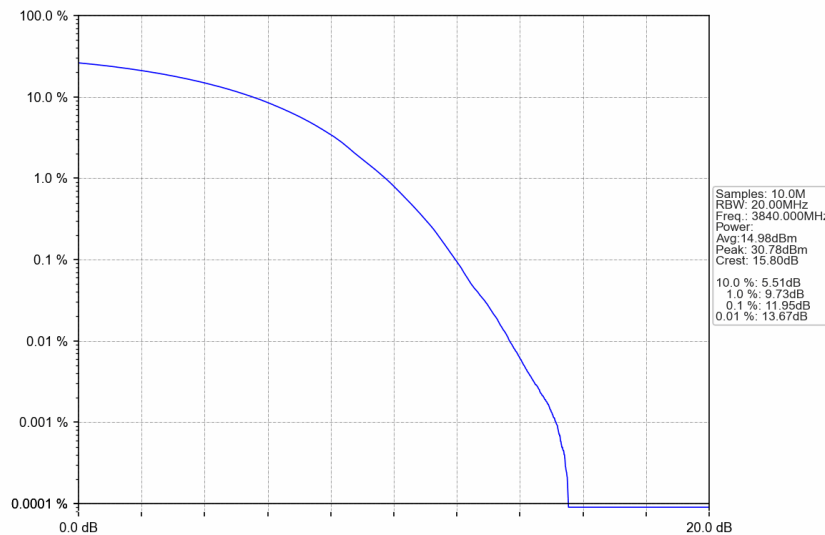
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n77a\_15kHz\_SISO\_NTNV\_25MHz\_CP-OFDM 256 QAM\_3712.5MHz\_Outer\_Full



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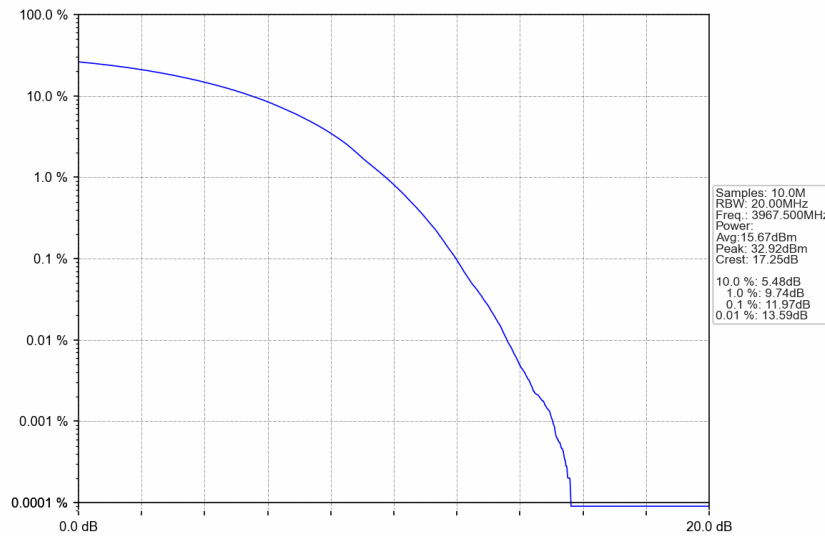


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n77a\_15kHz\_SISO\_NTNV\_25MHz\_CP-OFDM 256 QAM\_3967.5MHz\_Outer\_Full



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5.5 15k\_SISO\_30MHz\_NTNV

5.5.1 Test Result

5G NR n77a SCS=15kHz SISO 30MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant5	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3715.005	Outer_Full	7.68	/	/	<=13	Pass
	3840	Outer_Full	7.53	/	/	<=13	Pass
	3964.995	Outer_Full	7.87	/	/	<=13	Pass
DFT-s-OFDM QPSK	3715.005	Outer_Full	9.31	/	/	<=13	Pass
	3840	Outer_Full	9.00	/	/	<=13	Pass
	3964.995	Outer_Full	9.18	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3715.005	Outer_Full	9.98	/	/	<=13	Pass
	3840	Outer_Full	9.78	/	/	<=13	Pass
	3964.995	Outer_Full	10.17	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3715.005	Outer_Full	9.91	/	/	<=13	Pass
	3840	Outer_Full	10.25	/	/	<=13	Pass
	3964.995	Outer_Full	9.96	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3715.005	Outer_Full	9.75	/	/	<=13	Pass
	3840	Outer_Full	10.72	/	/	<=13	Pass
	3964.995	Outer_Full	10.15	/	/	<=13	Pass
CP-OFDM QPSK	3715.005	Outer_Full	12.06	/	/	<=13	Pass
	3840	Outer_Full	12.08	/	/	<=13	Pass
	3964.995	Outer_Full	12.06	/	/	<=13	Pass
CP-OFDM 16 QAM	3715.005	Outer_Full	12.05	/	/	<=13	Pass
	3840	Outer_Full	12.22	/	/	<=13	Pass
	3964.995	Outer_Full	12.00	/	/	<=13	Pass
CP-OFDM 64 QAM	3715.005	Outer_Full	12.07	/	/	<=13	Pass
	3840	Outer_Full	12.01	/	/	<=13	Pass
	3964.995	Outer_Full	12.00	/	/	<=13	Pass
CP-OFDM 256 QAM	3715.005	Outer_Full	12.07	/	/	<=13	Pass
	3840	Outer_Full	11.80	/	/	<=13	Pass
	3964.995	Outer_Full	12.00	/	/	<=13	Pass

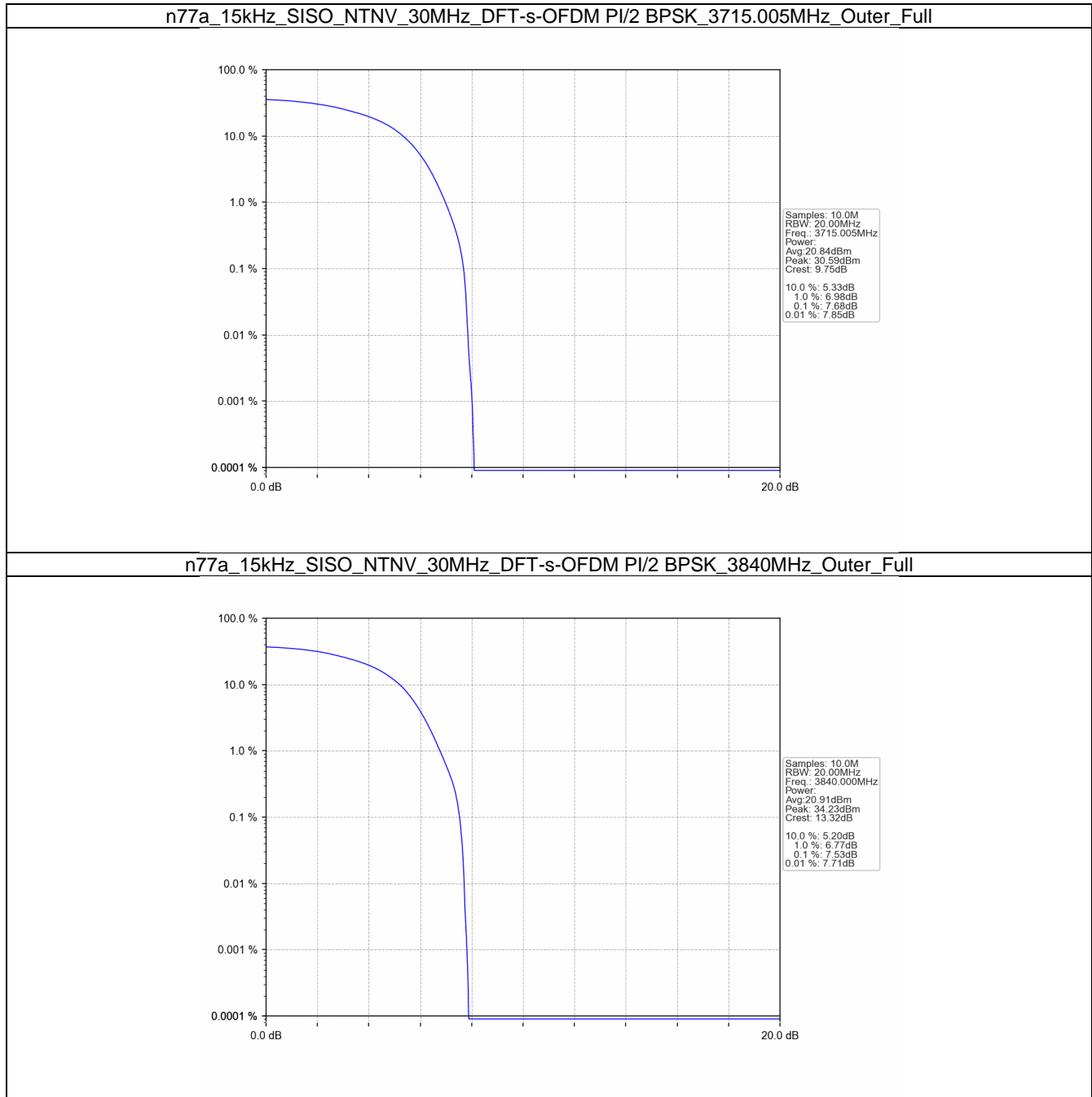


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5.5.2 Test Graph

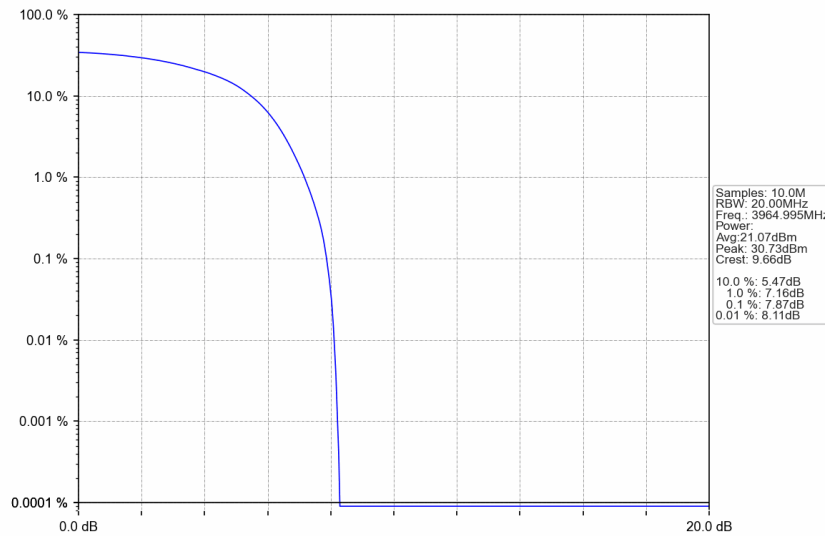


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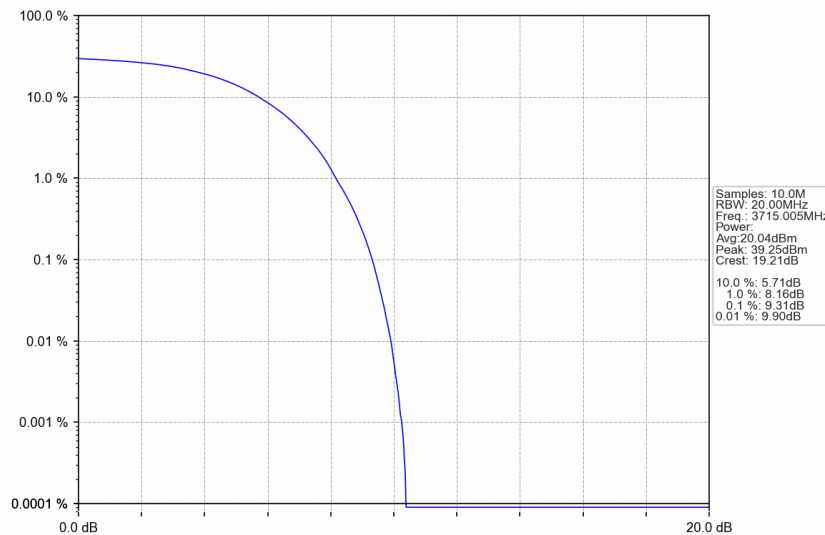
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n77a\_15kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM QPSK\_3715.005MHz\_Outer\_Full



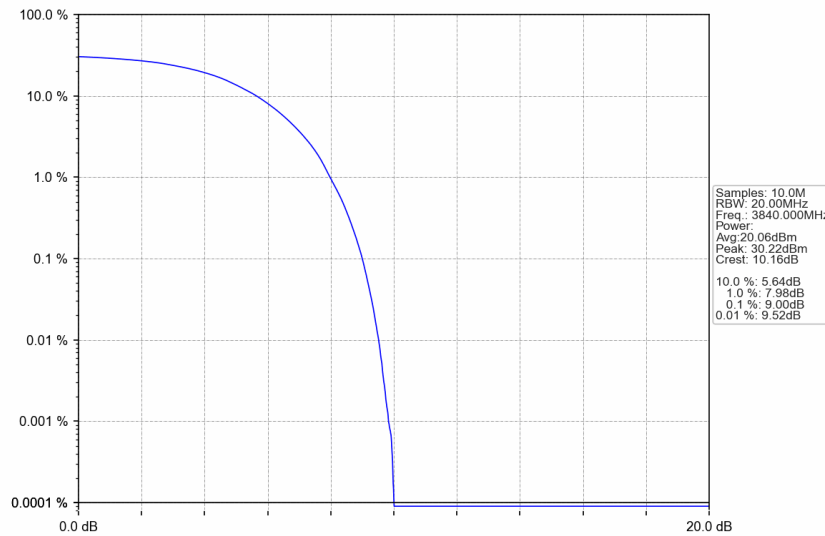
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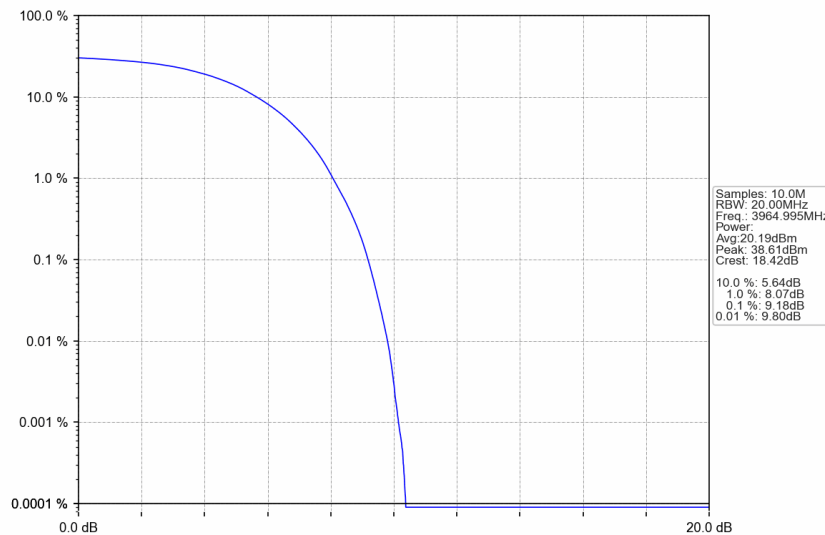
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n77a\_15kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM QPSK\_3964.995MHz\_Outer\_Full



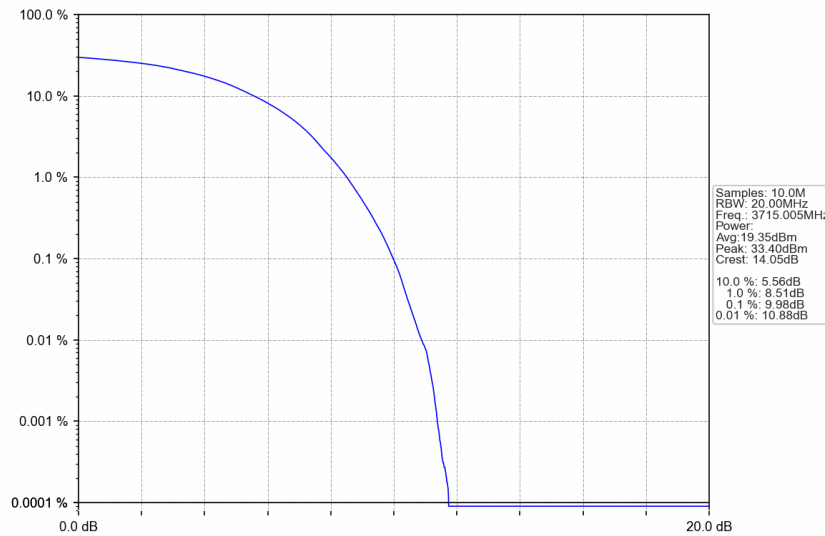
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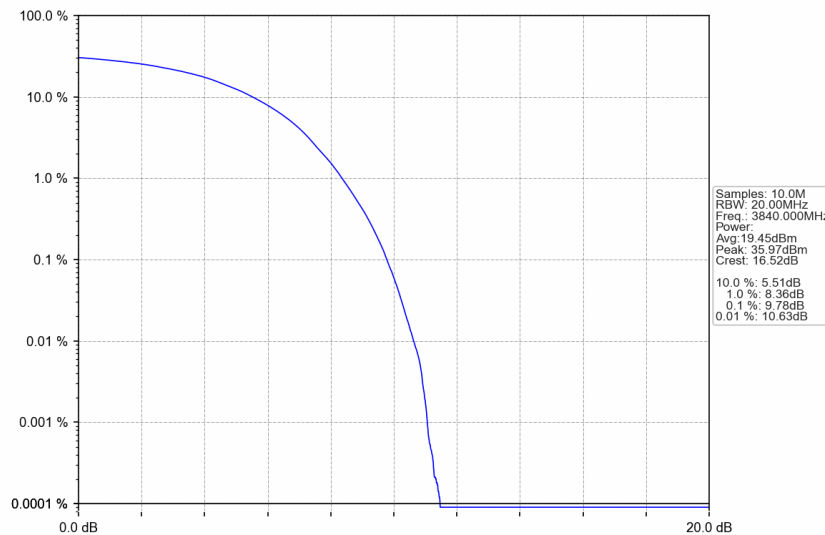
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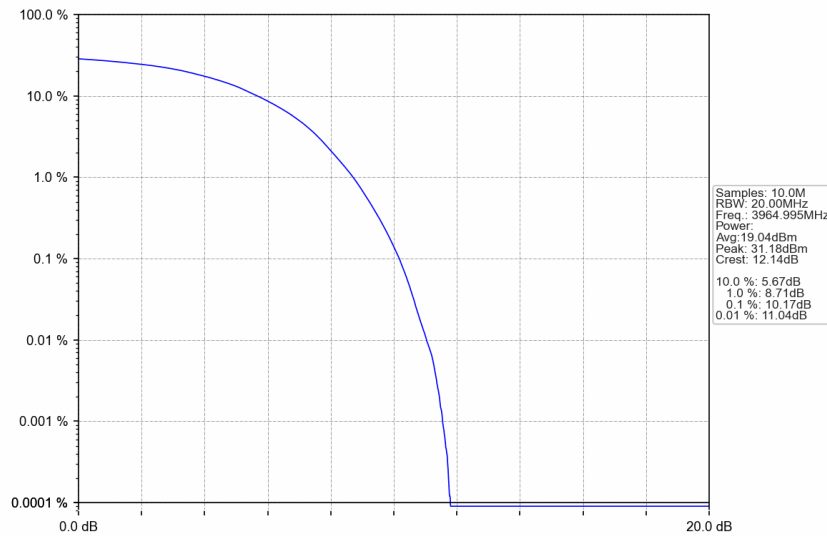
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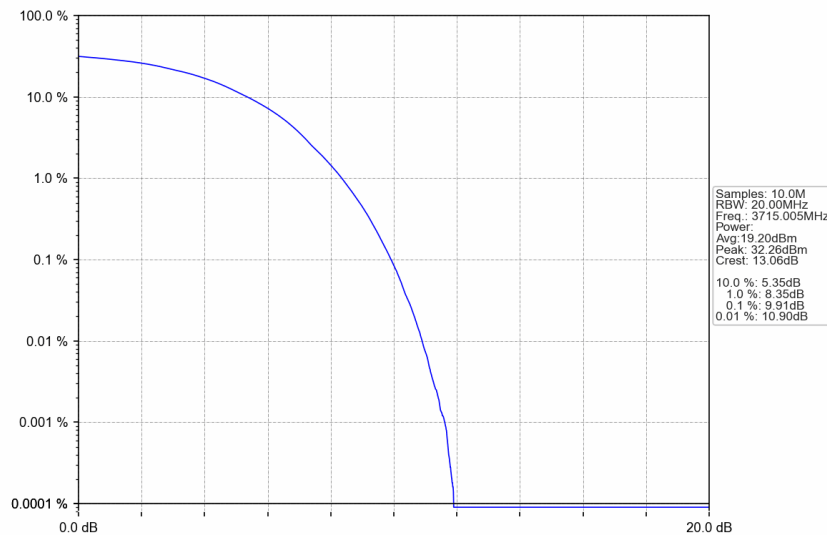
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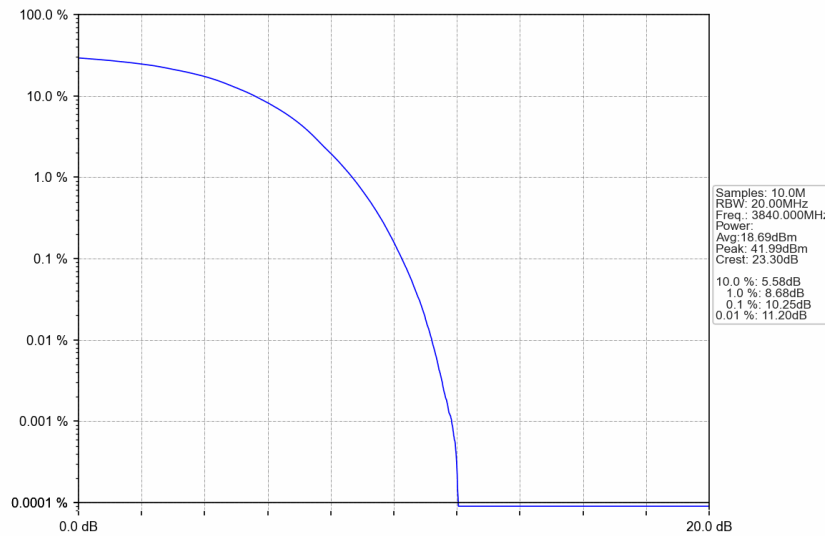
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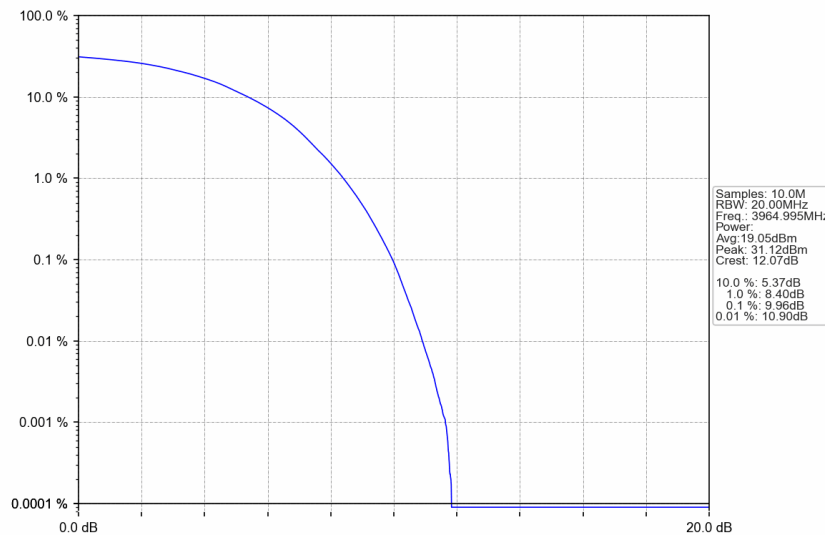
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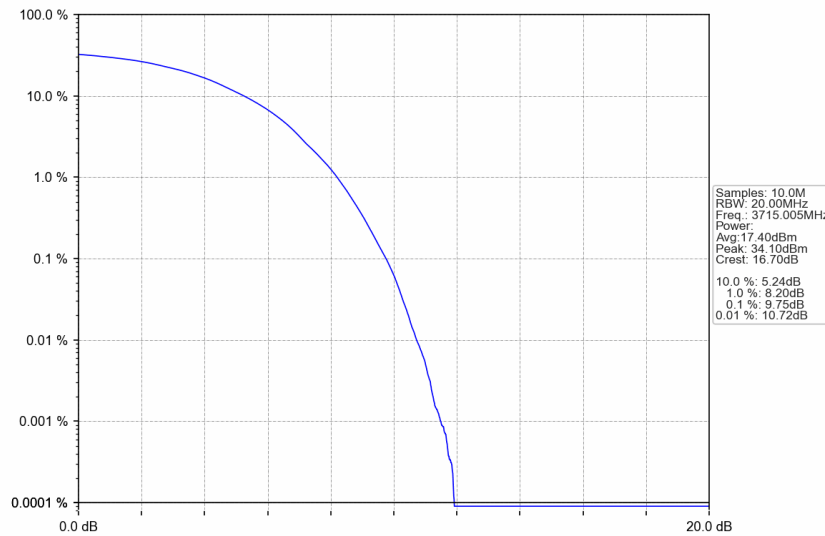


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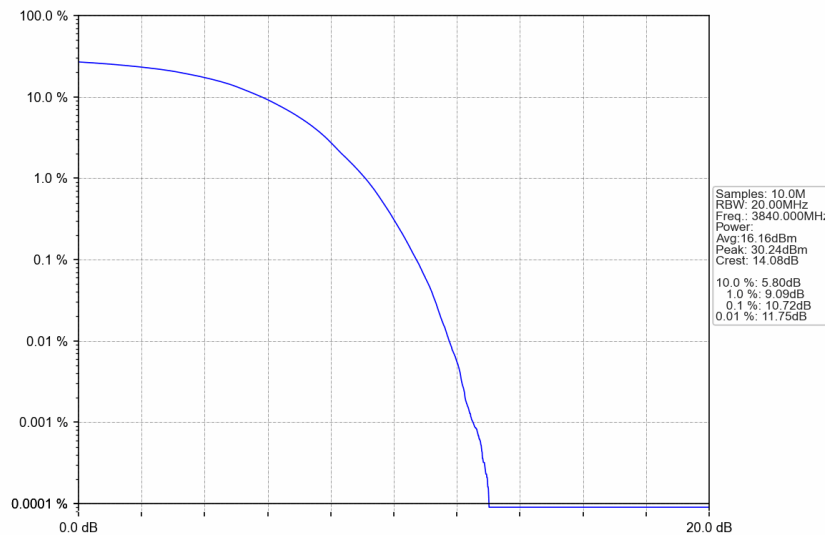
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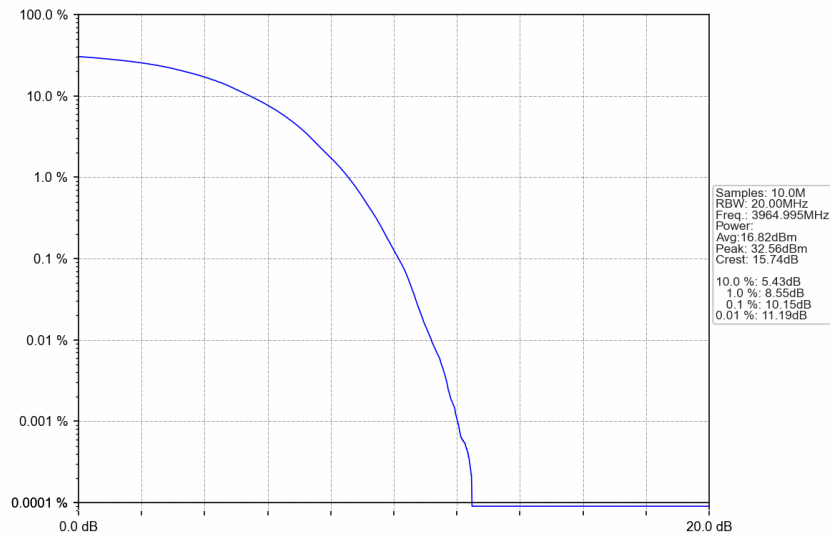
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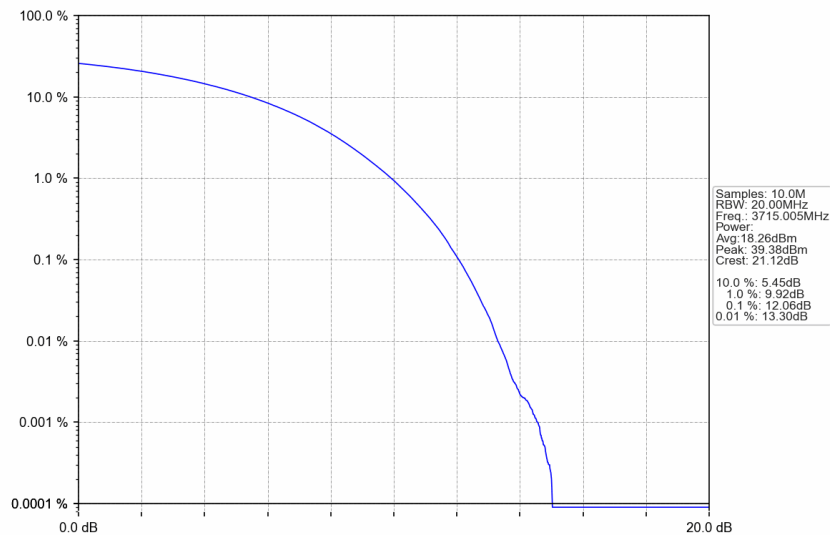
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n77a\_15kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM 256 QAM\_3964.995MHz\_Outer\_Full



n77a\_15kHz\_SISO\_NTNV\_30MHz\_CP-OFDM QPSK\_3715.005MHz\_Outer\_Full



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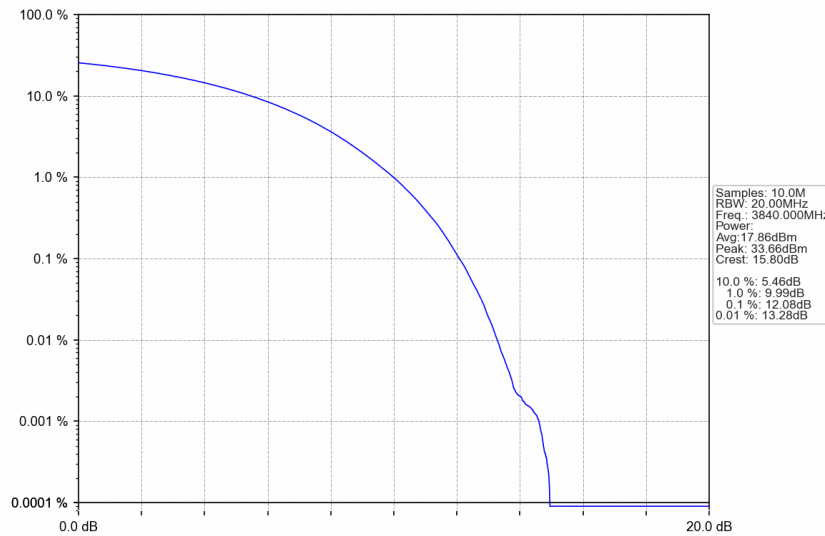
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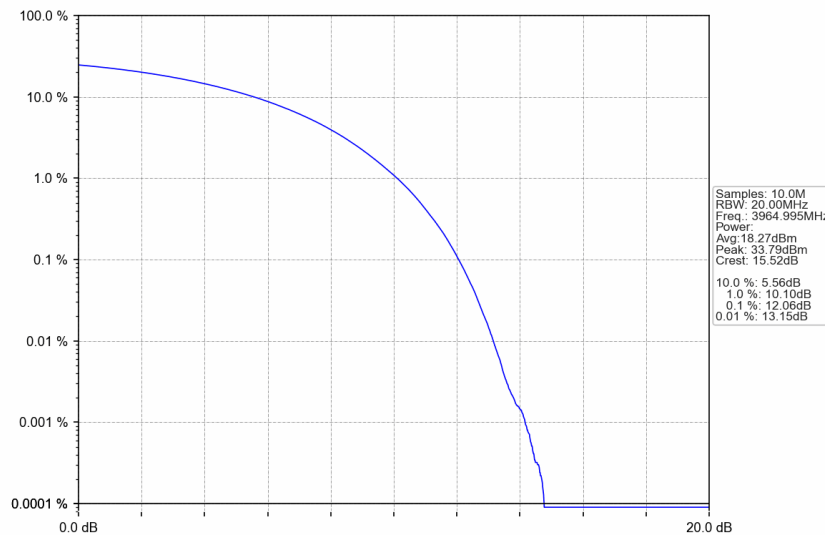
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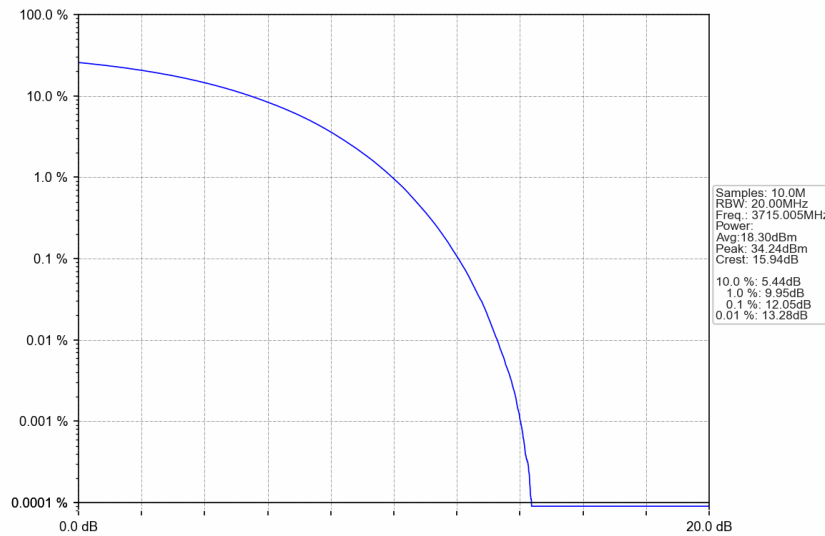
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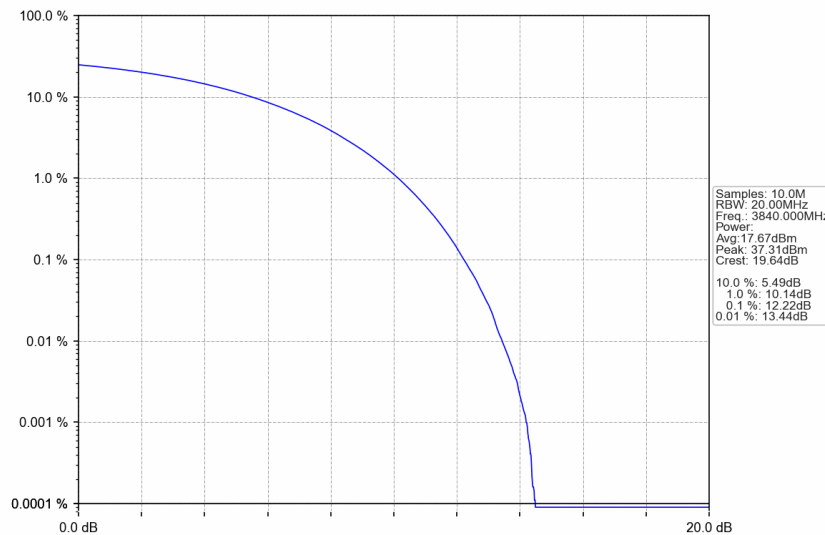
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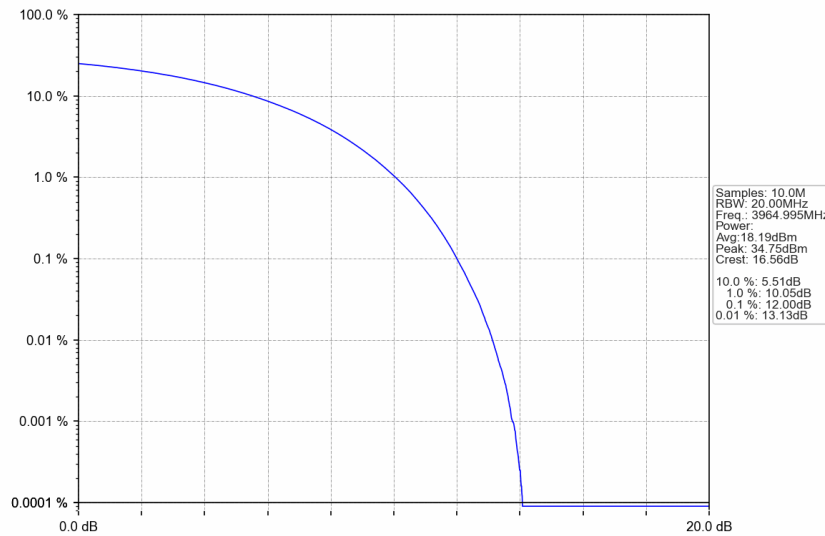
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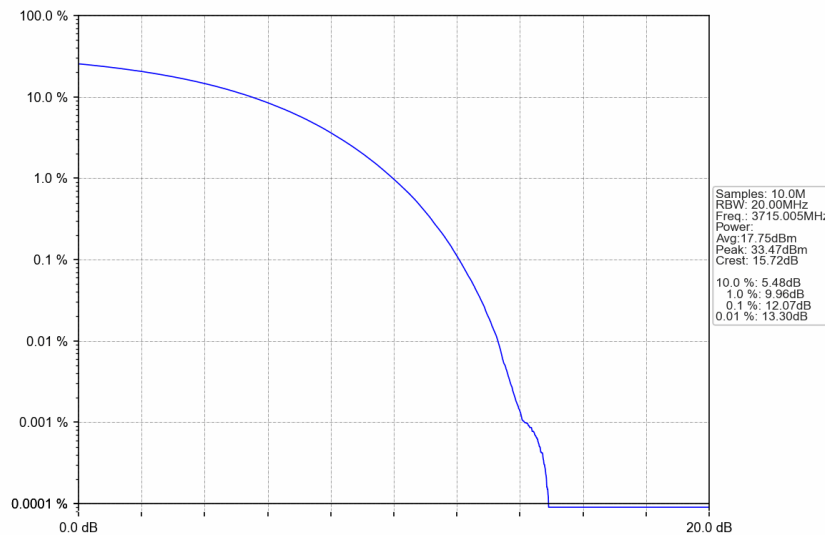
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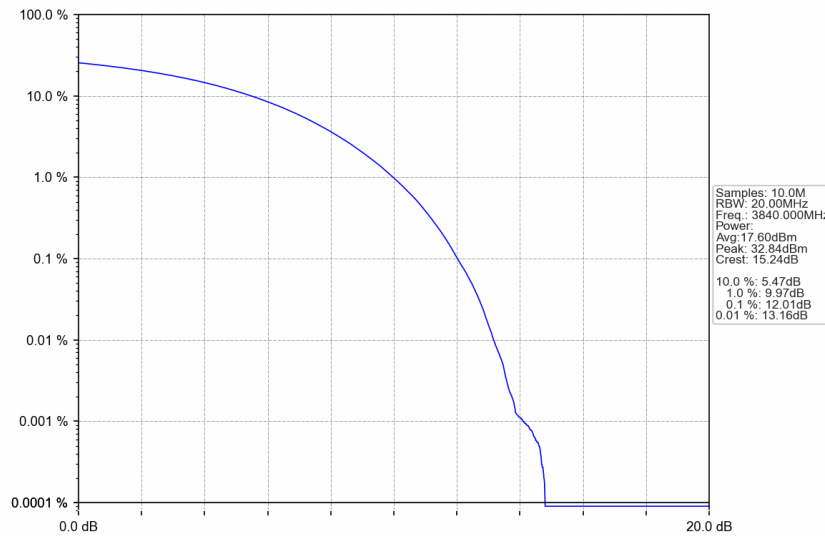
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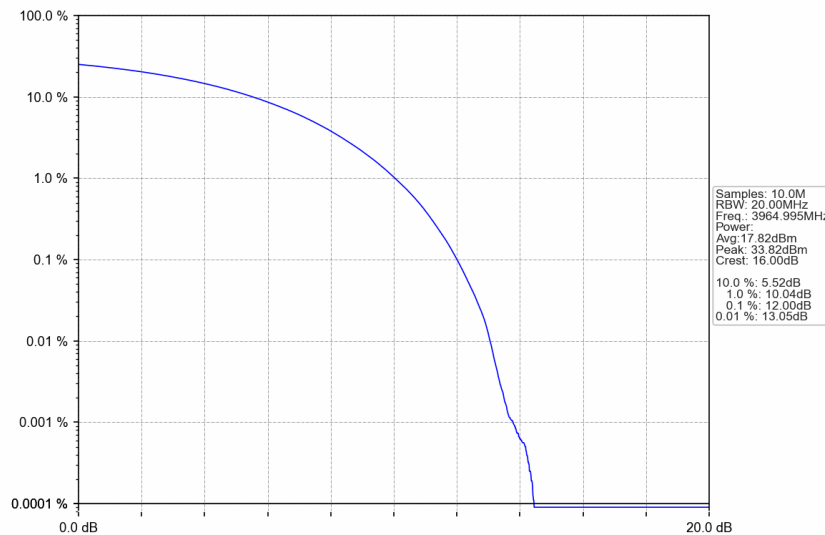




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n77a\_15kHz\_SISO\_NTNV\_30MHz\_CP-OFDM 64 QAM\_3964.995MHz\_Outer\_Full



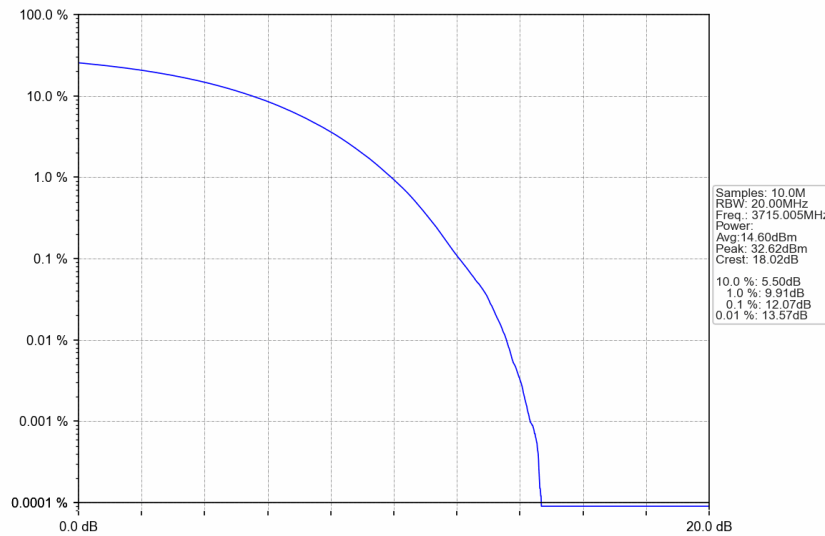
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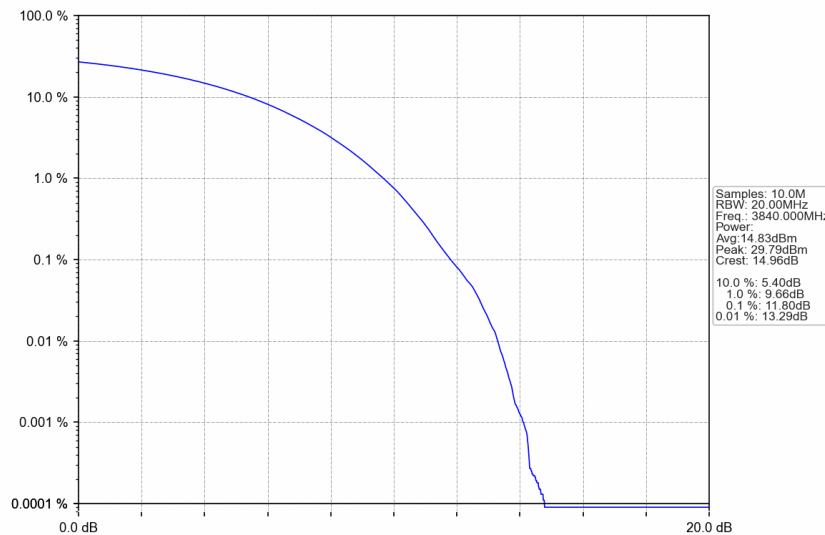
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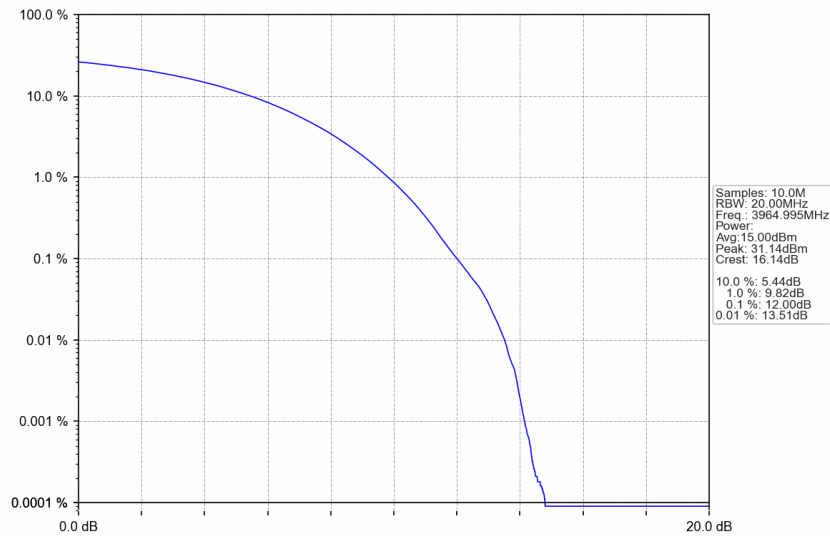


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5.6 15k\_SISO\_40MHz\_NTNV

5.6.1 Test Result

5G NR n77a SCS=15kHz SISO 40MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant5	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3720	Outer_Full	8.46	/	/	<=13	Pass
	3840	Outer_Full	8.17	/	/	<=13	Pass
	3960	Outer_Full	8.38	/	/	<=13	Pass
DFT-s-OFDM QPSK	3720	Outer_Full	9.50	/	/	<=13	Pass
	3840	Outer_Full	9.52	/	/	<=13	Pass
	3960	Outer_Full	9.49	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3720	Outer_Full	10.20	/	/	<=13	Pass
	3840	Outer_Full	10.45	/	/	<=13	Pass
	3960	Outer_Full	10.02	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3720	Outer_Full	10.89	/	/	<=13	Pass
	3840	Outer_Full	10.71	/	/	<=13	Pass
	3960	Outer_Full	10.87	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3720	Outer_Full	11.30	/	/	<=13	Pass
	3840	Outer_Full	10.16	/	/	<=13	Pass
	3960	Outer_Full	10.66	/	/	<=13	Pass
CP-OFDM QPSK	3720	Outer_Full	12.08	/	/	<=13	Pass
	3840	Outer_Full	12.14	/	/	<=13	Pass
	3960	Outer_Full	11.83	/	/	<=13	Pass
CP-OFDM 16 QAM	3720	Outer_Full	11.86	/	/	<=13	Pass
	3840	Outer_Full	11.91	/	/	<=13	Pass
	3960	Outer_Full	11.83	/	/	<=13	Pass
CP-OFDM 64 QAM	3720	Outer_Full	12.24	/	/	<=13	Pass
	3840	Outer_Full	12.10	/	/	<=13	Pass
	3960	Outer_Full	11.68	/	/	<=13	Pass
CP-OFDM 256 QAM	3720	Outer_Full	11.81	/	/	<=13	Pass
	3840	Outer_Full	12.13	/	/	<=13	Pass
	3960	Outer_Full	11.86	/	/	<=13	Pass

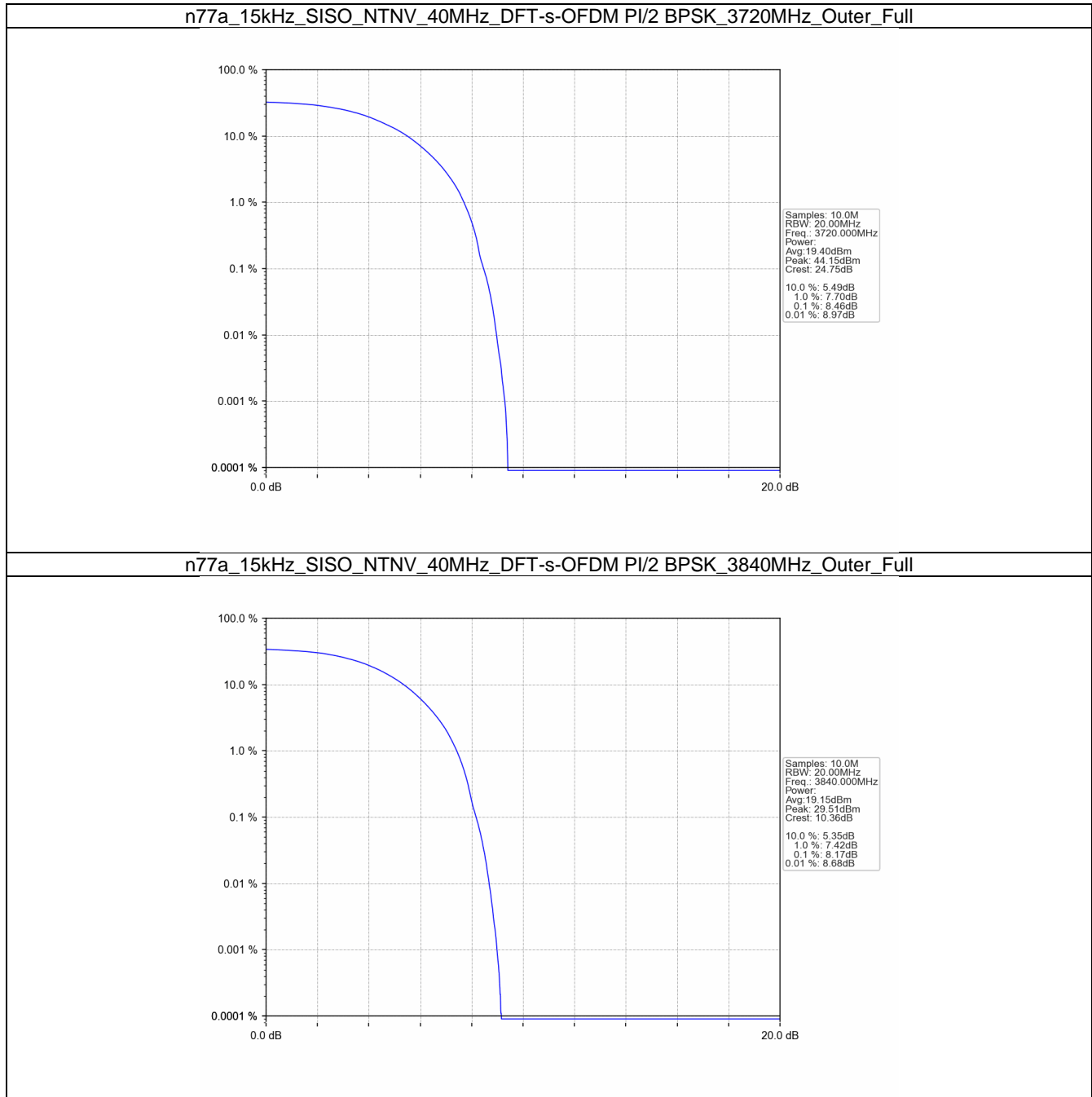


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5.6.2 Test Graph

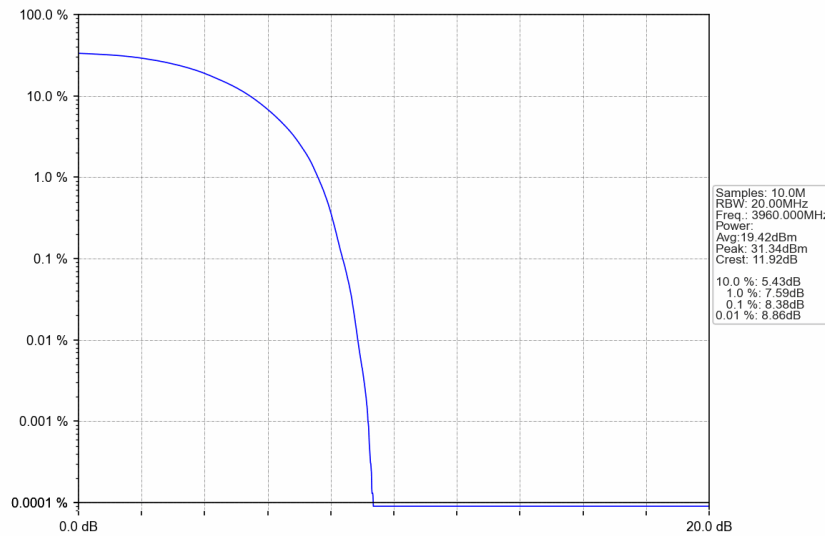


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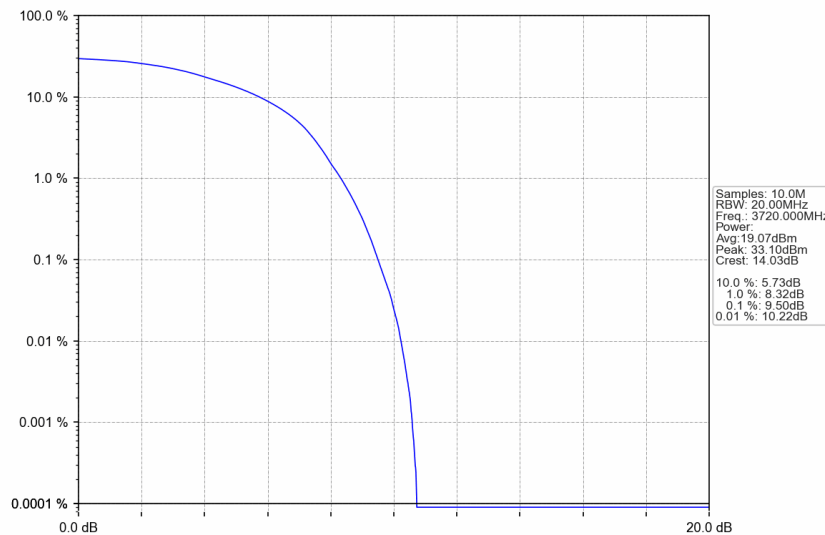
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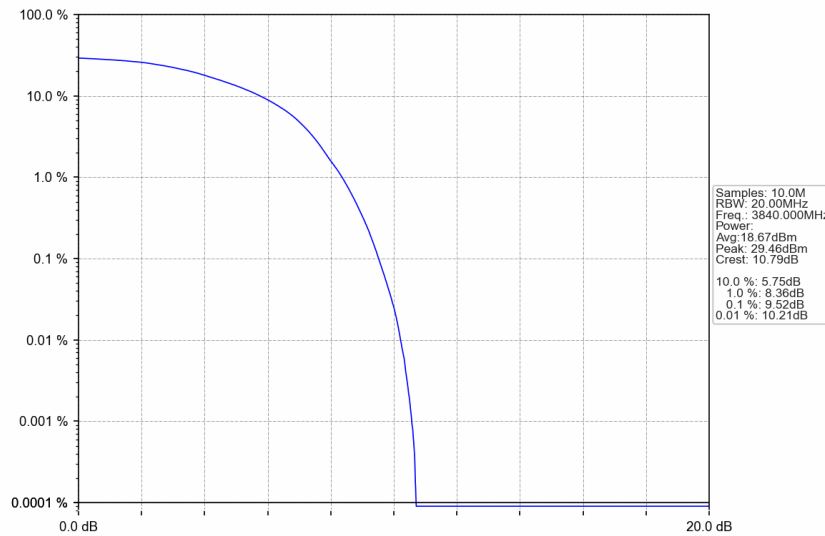
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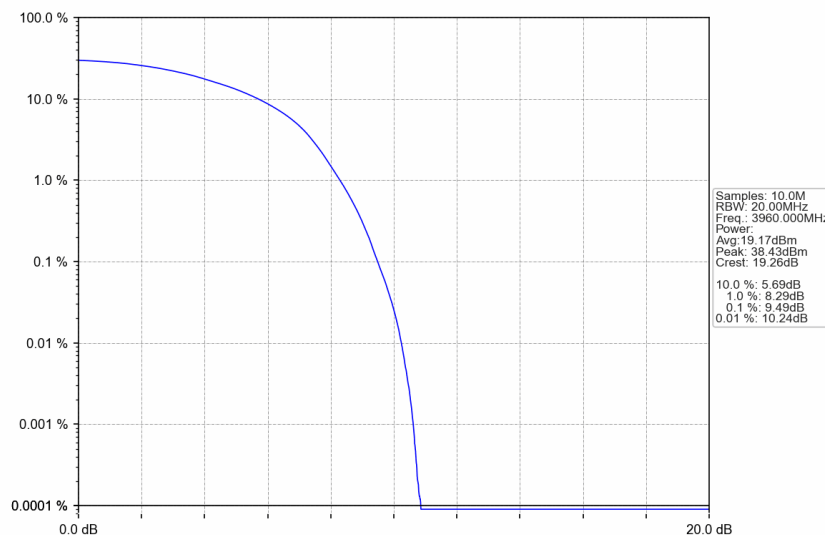
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n77a\_15kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM QPSK\_3960MHz\_Outer\_Full



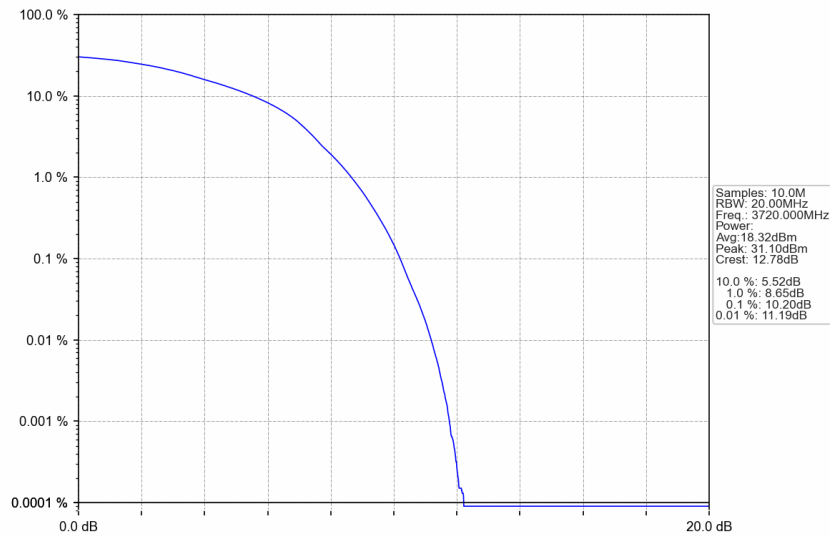
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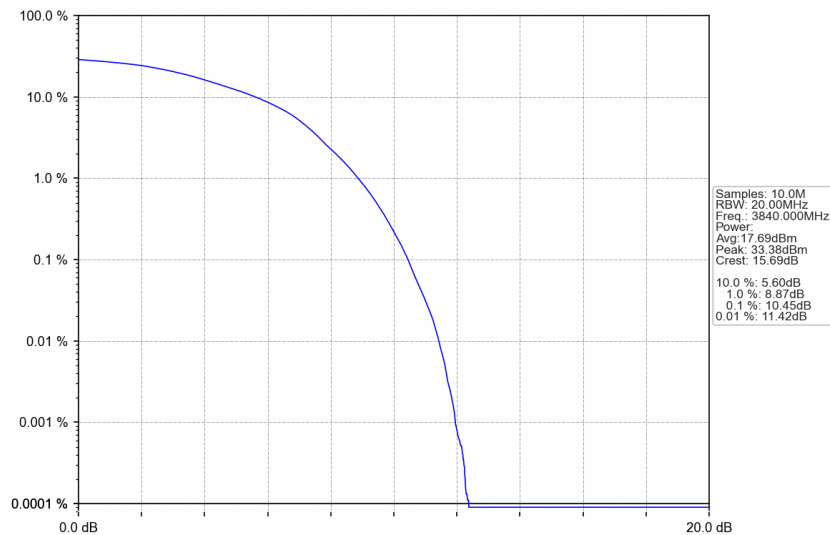
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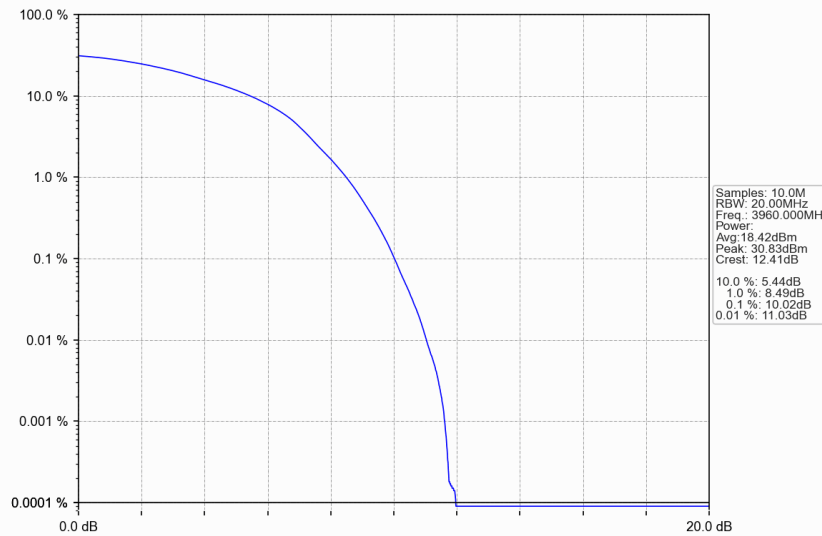
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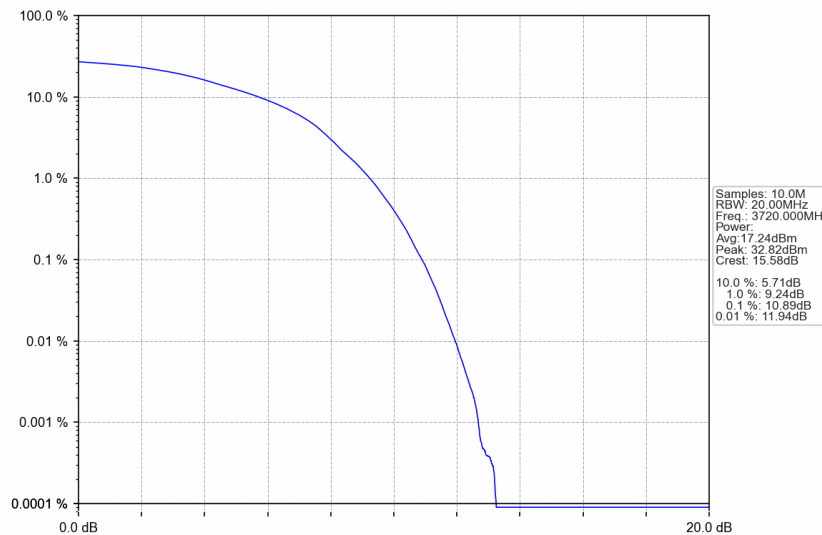
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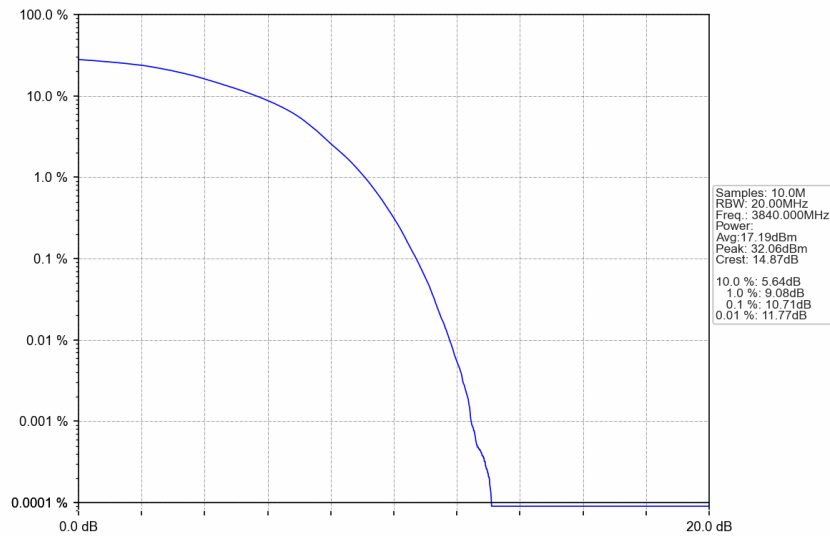
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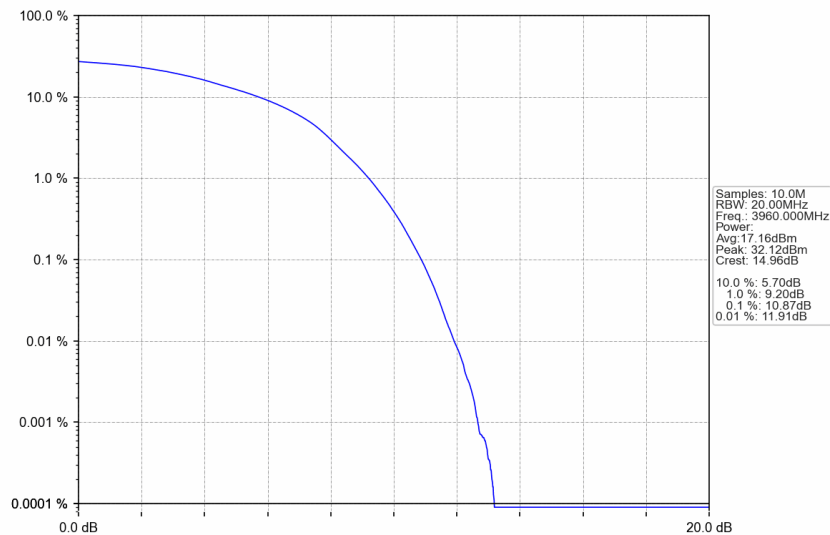
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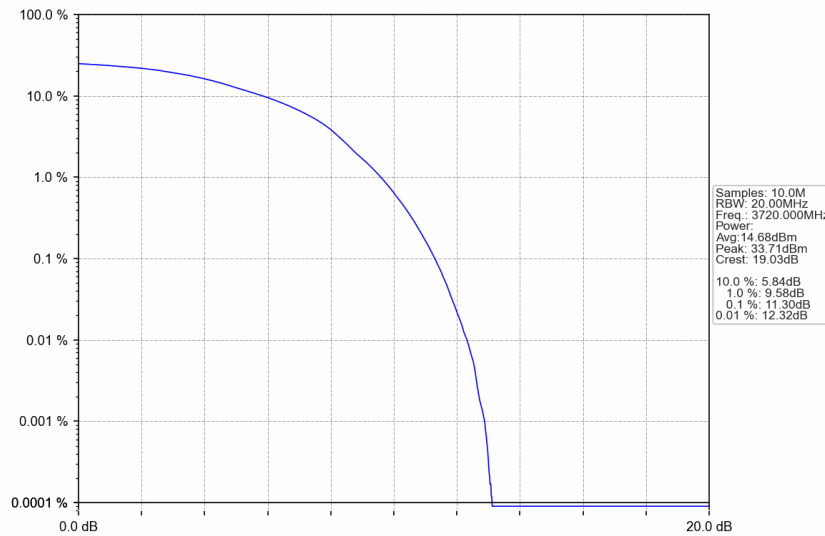
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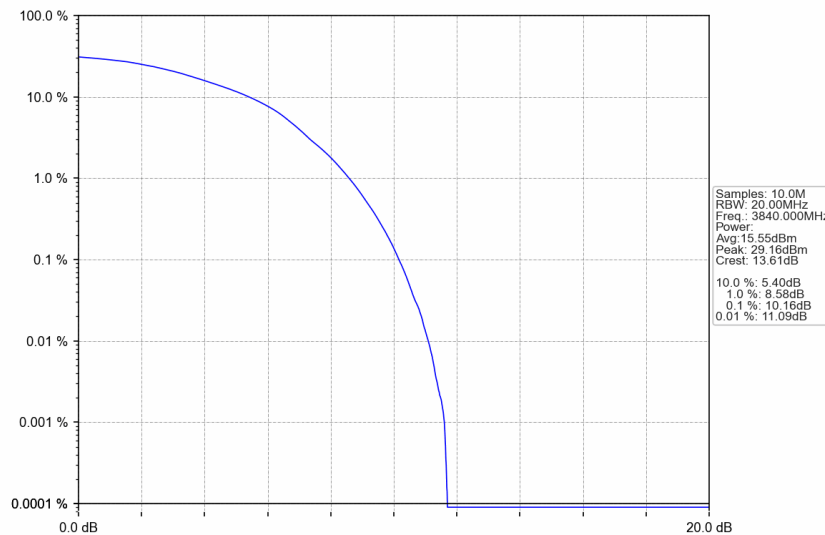
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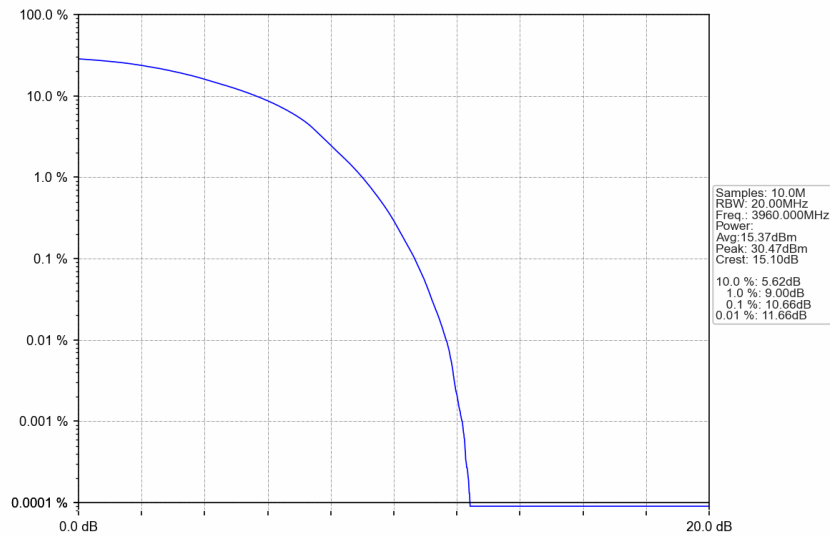
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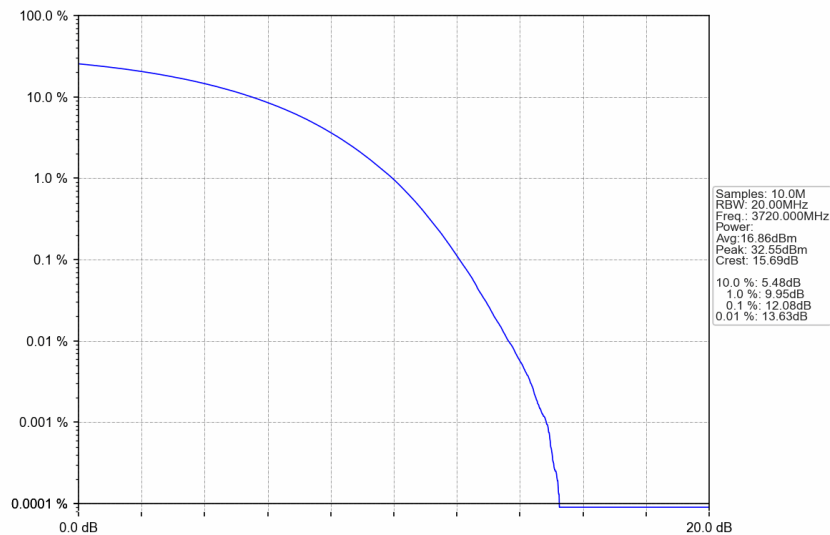
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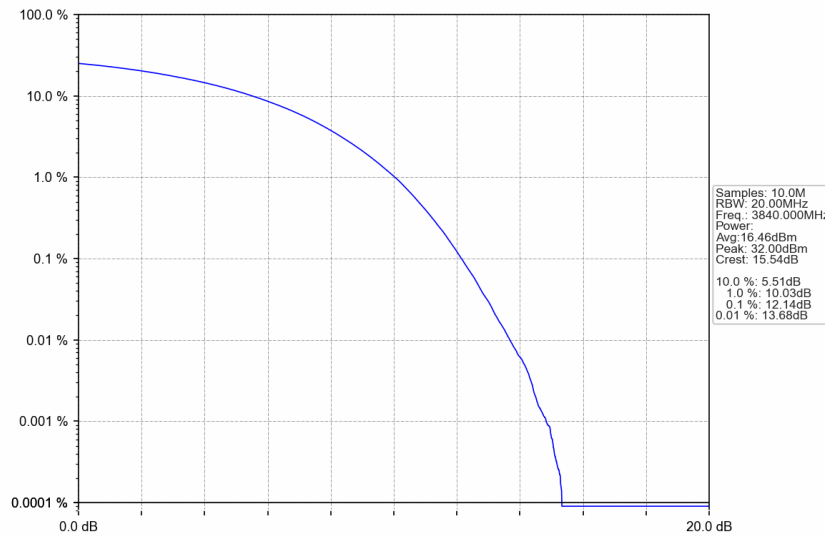
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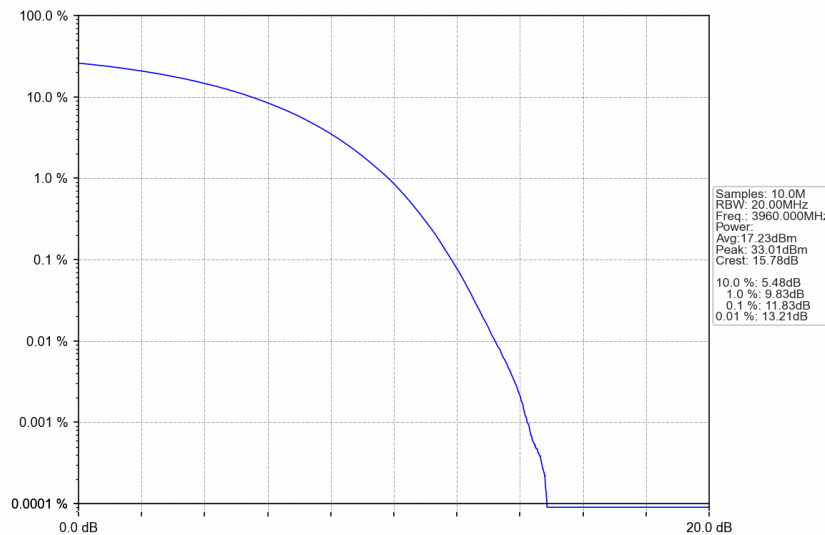
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