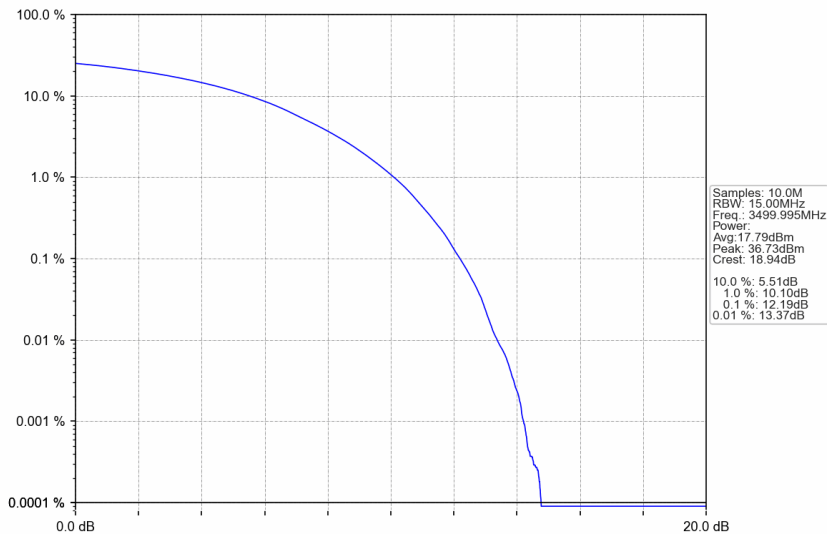
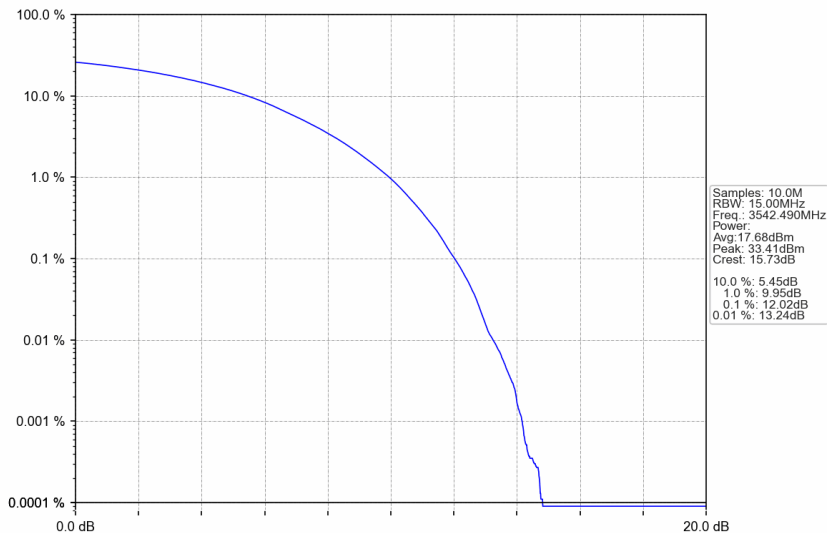


n77d\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 64 QAM\_3499.995MHz\_Outer\_Full



n77d\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 64 QAM\_3542.49MHz\_Outer\_Full



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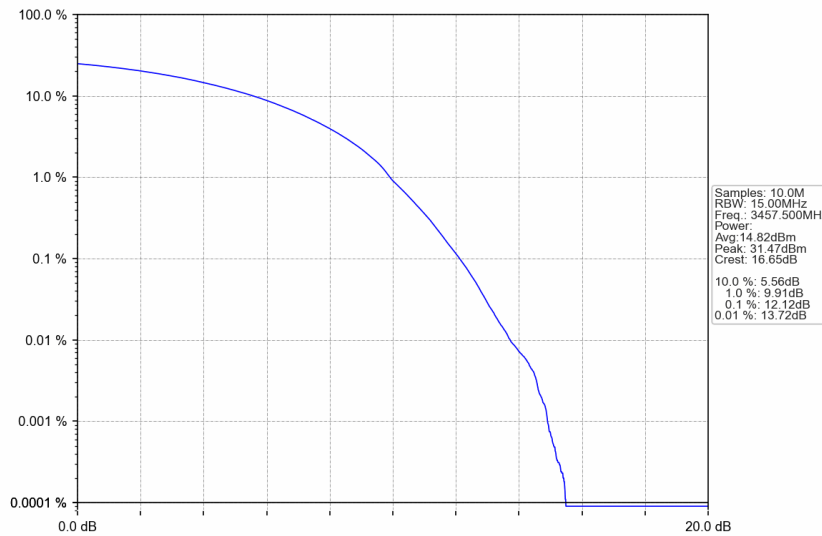
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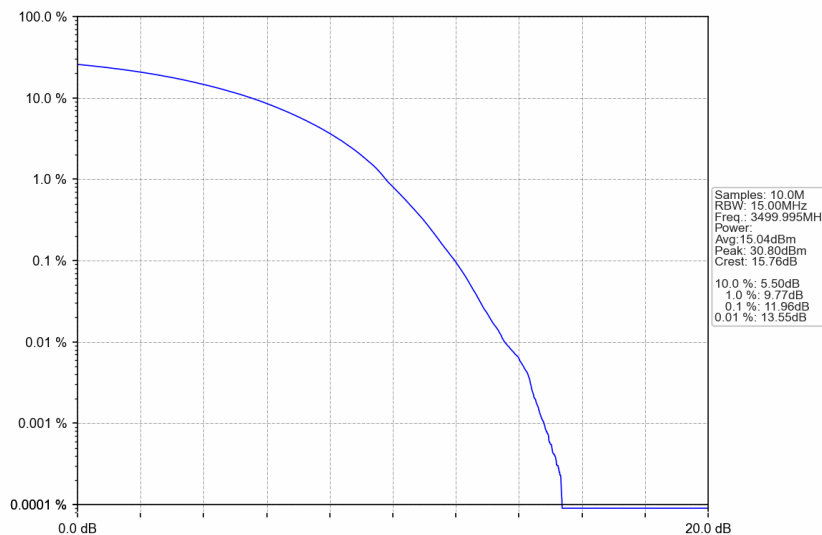
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n77d\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 256 QAM\_3457.5MHz\_Outer\_Full



n77d\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 256 QAM\_3499.995MHz\_Outer\_Full



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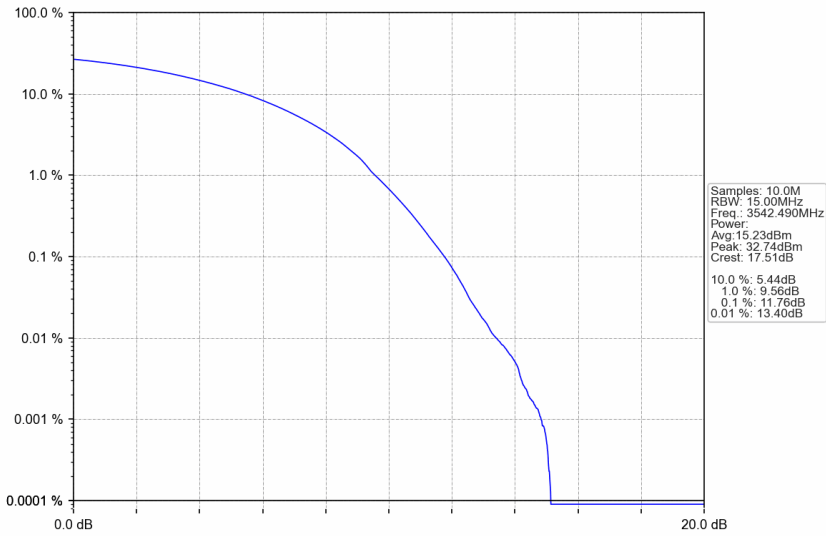
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Report No.: SEWM2311000456RG02

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n77d\_15kHz\_SISO\_NTNV\_15MHz\_CP-OFDM 256 QAM\_3542.49MHz\_Outer\_Full



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Report No.: SEWM2311000456RG02
Rev.: 01
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5.3 15k\_SISO\_20MHz\_NTNV

5.3.1 Test Result

Table with 8 columns: Modulation, Frequency (MHz), RB Allocation, Peak-Average Ratio (dB) [Ant5, Ant2, Sum, Limit], and Verdict. Rows include DFT-s-OFDM PI/2 BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM, and CP-OFDM QPSK, 16 QAM, 64 QAM, 256 QAM.



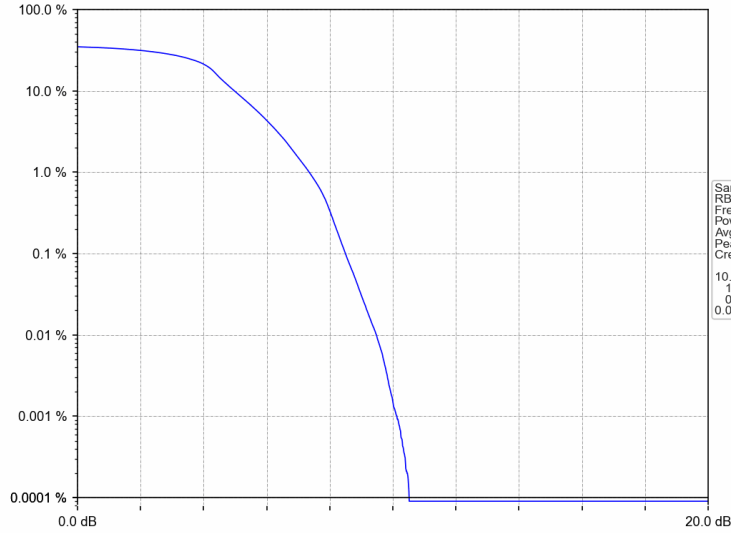
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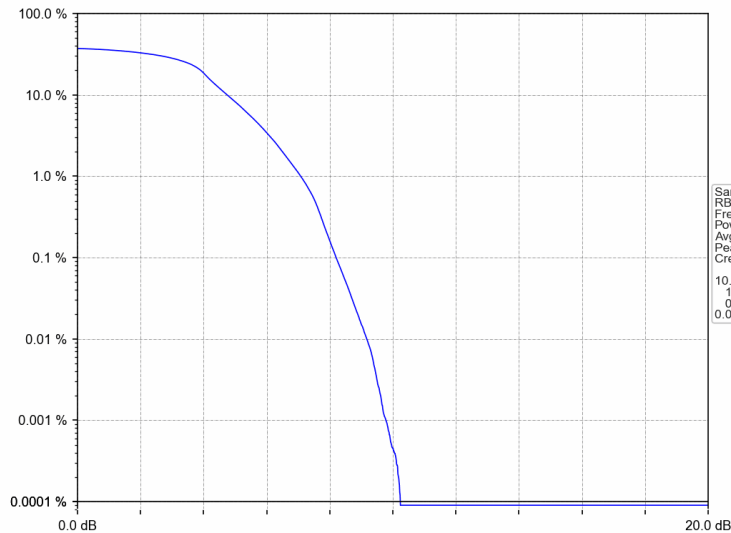
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5.3.2 Test Graph

n77d\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM PI/2 BPSK\_3460.005MHz\_Outer\_Full



n77d\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM PI/2 BPSK\_3499.995MHz\_Outer\_Full



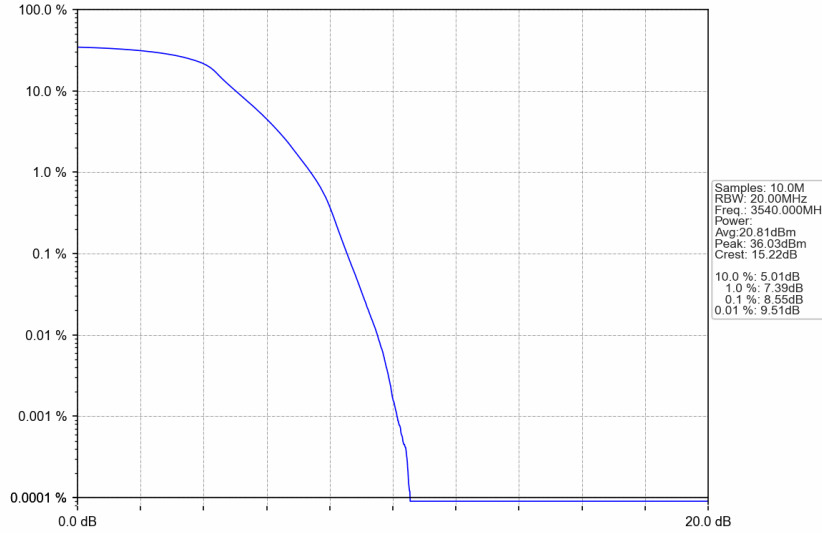
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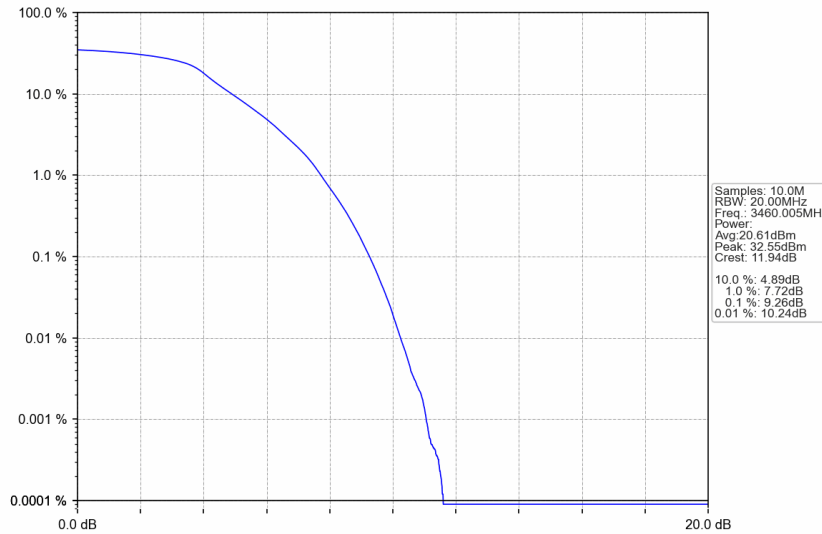
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n77d\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM PI/2 BPSK\_3540MHz\_Outer\_Full



n77d\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM QPSK\_3460.005MHz\_Outer\_Full

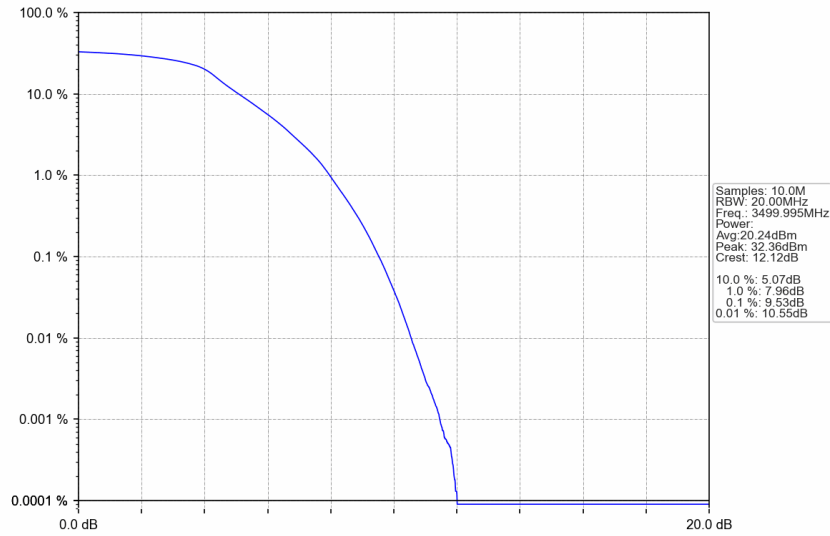


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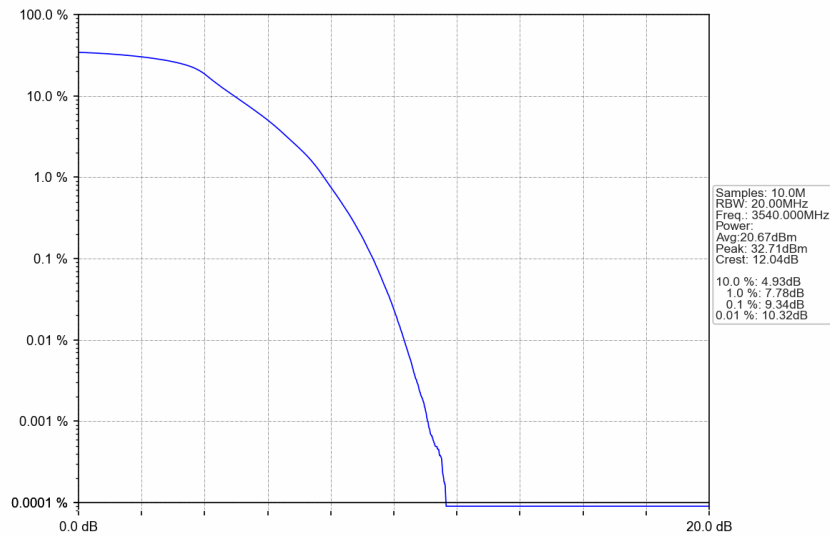
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n77d\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM QPSK\_3499.995MHz\_Outer\_Full



n77d\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM QPSK\_3540MHz\_Outer\_Full



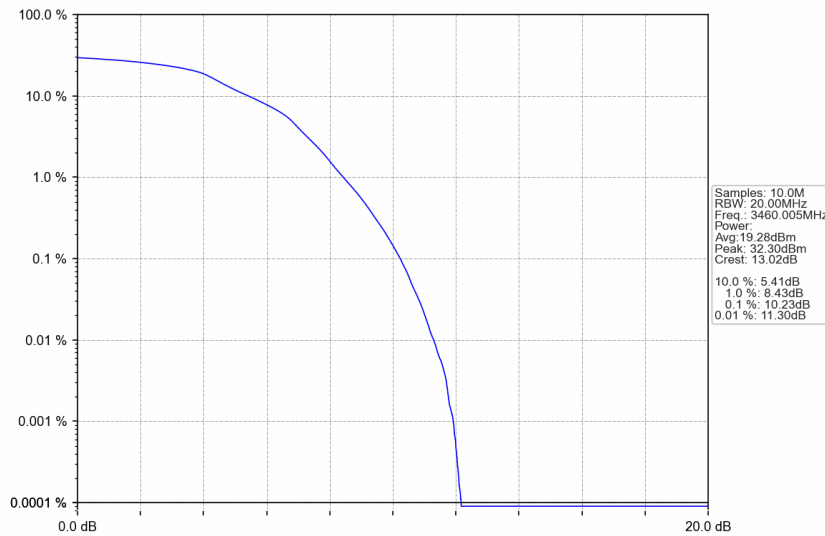
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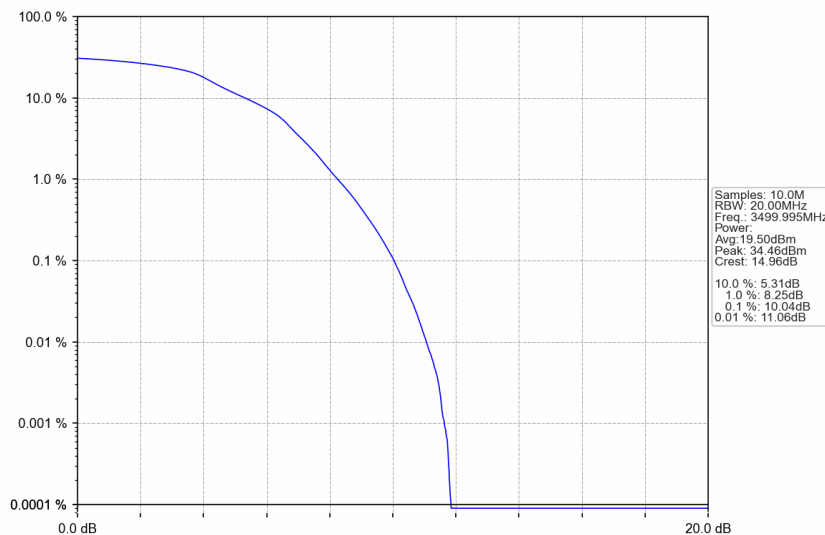
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n77d\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM 16 QAM\_3460.005MHz\_Outer\_Full



n77d\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM 16 QAM\_3499.995MHz\_Outer\_Full



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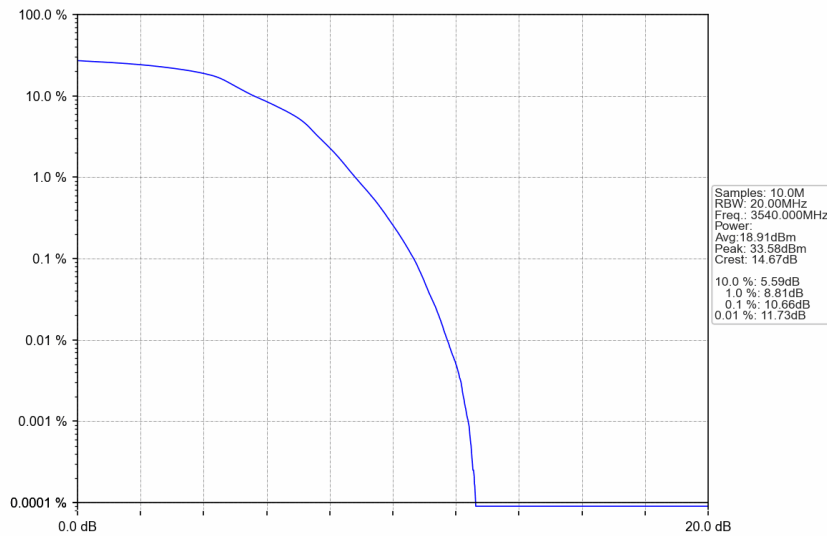


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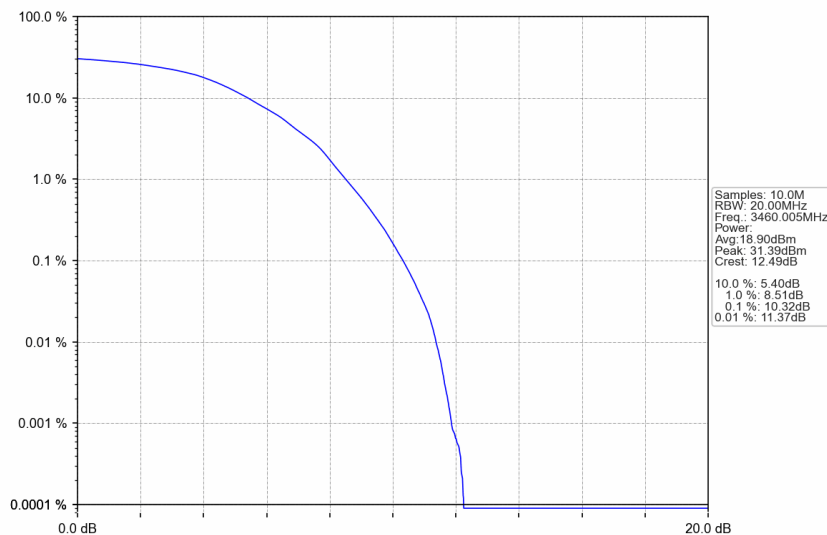
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n77d\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM 16 QAM\_3540MHz\_Outer\_Full



n77d\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM 64 QAM\_3460.005MHz\_Outer\_Full



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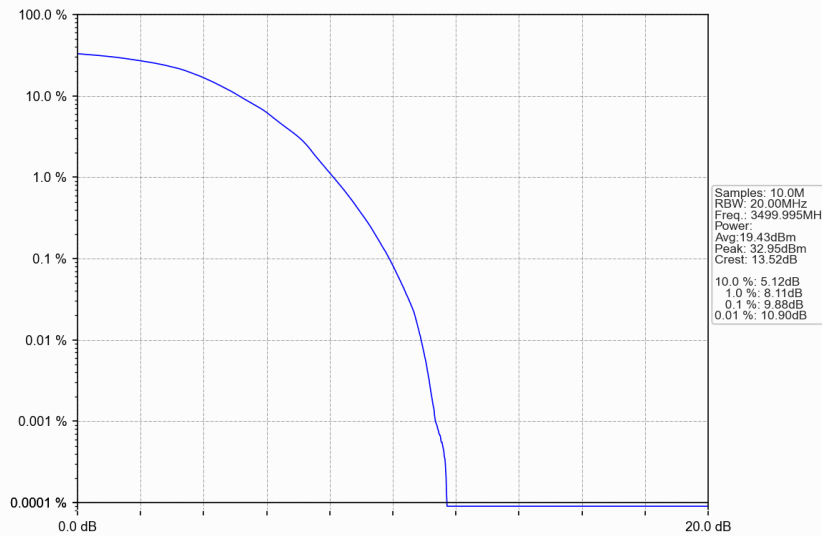
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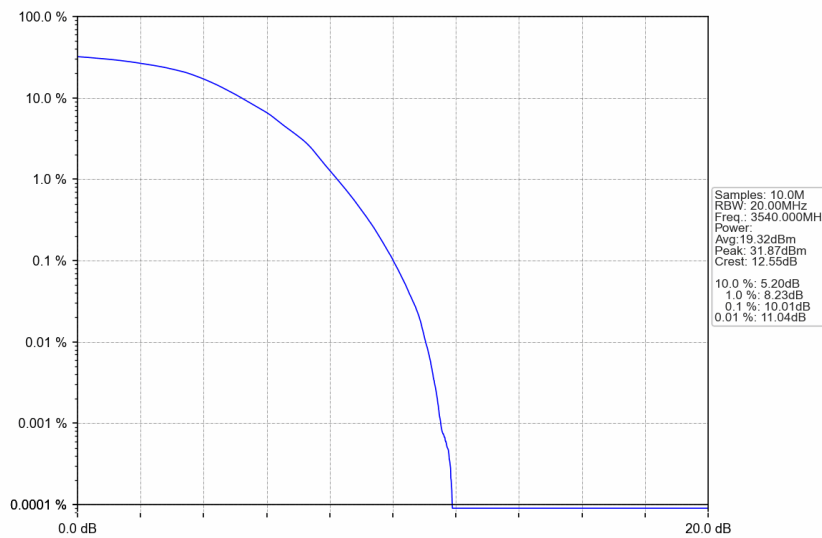
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n77d\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM 64 QAM\_3499.995MHz\_Outer\_Full



n77d\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM 64 QAM\_3540MHz\_Outer\_Full

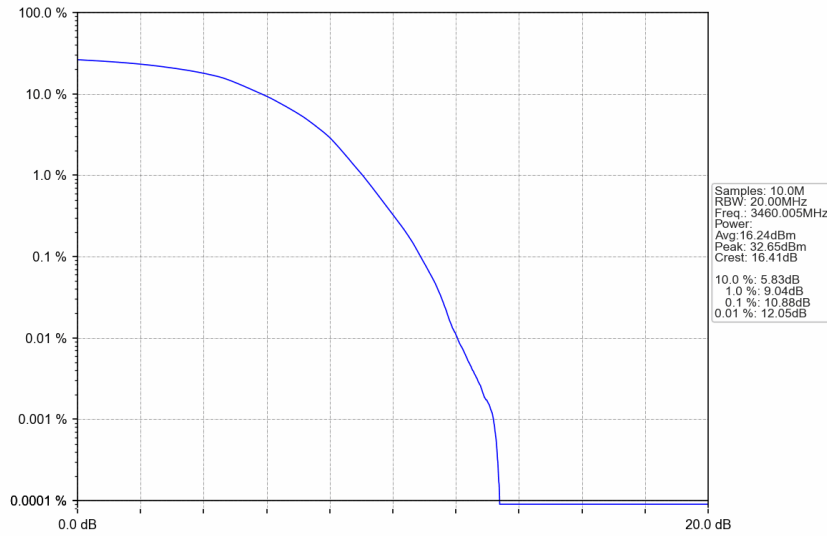


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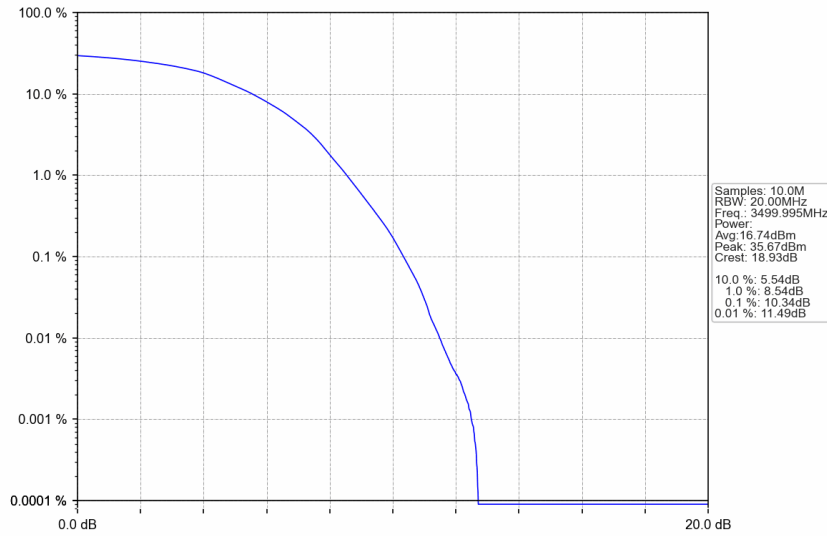
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n77d\_15kHz\_SISO\_NTNV\_20MHz\_DFT-s-OFDM 256 QAM\_3460.005MHz\_Outer\_Full

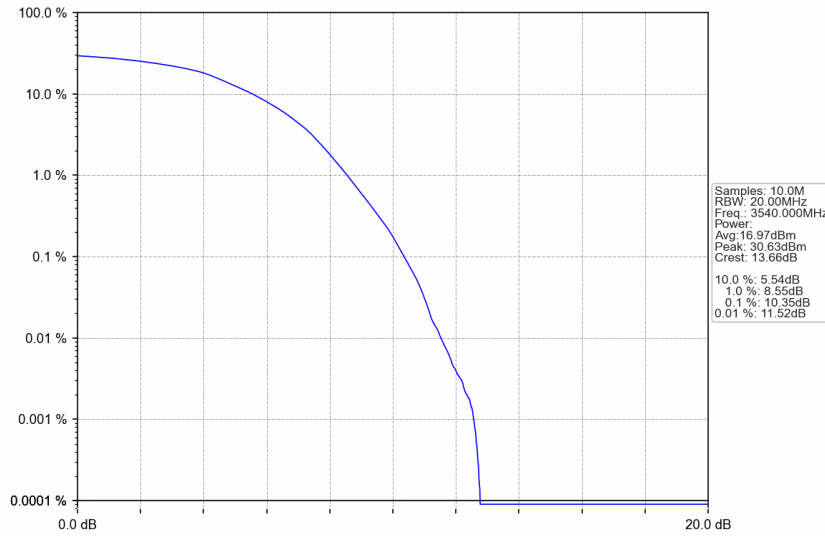


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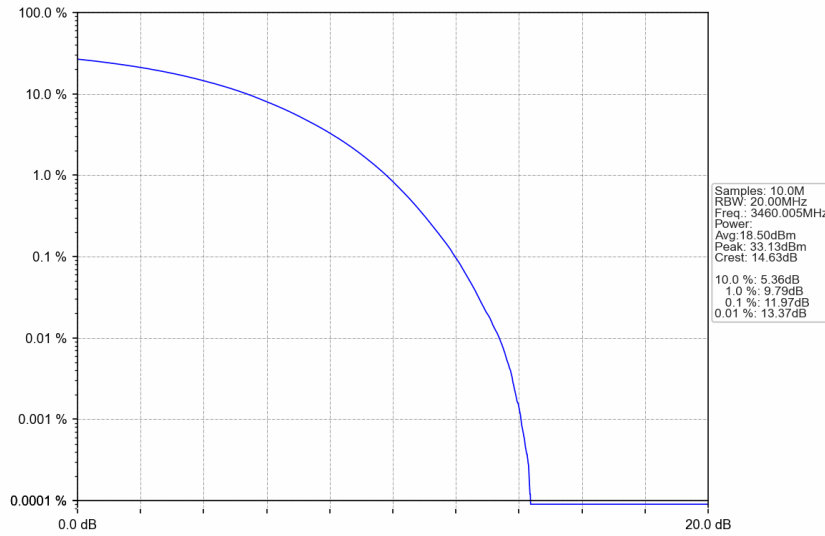


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n77d\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_3460.005MHz\_Outer\_Full

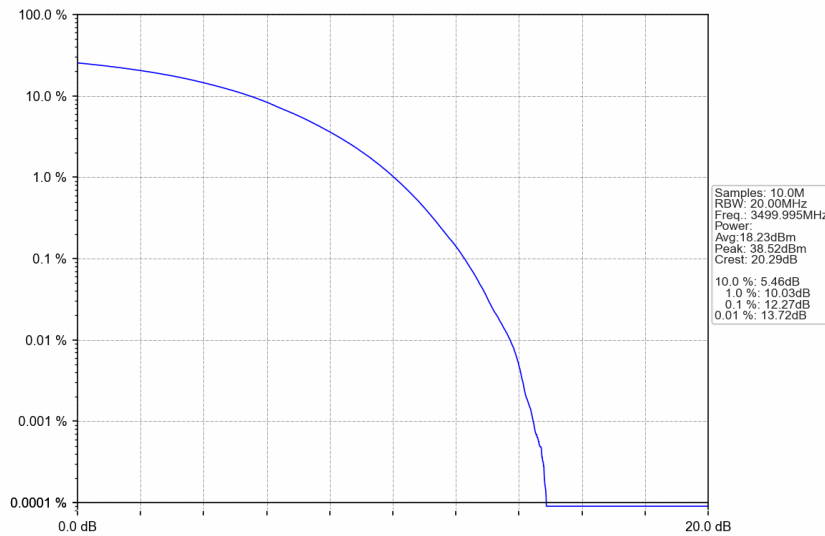


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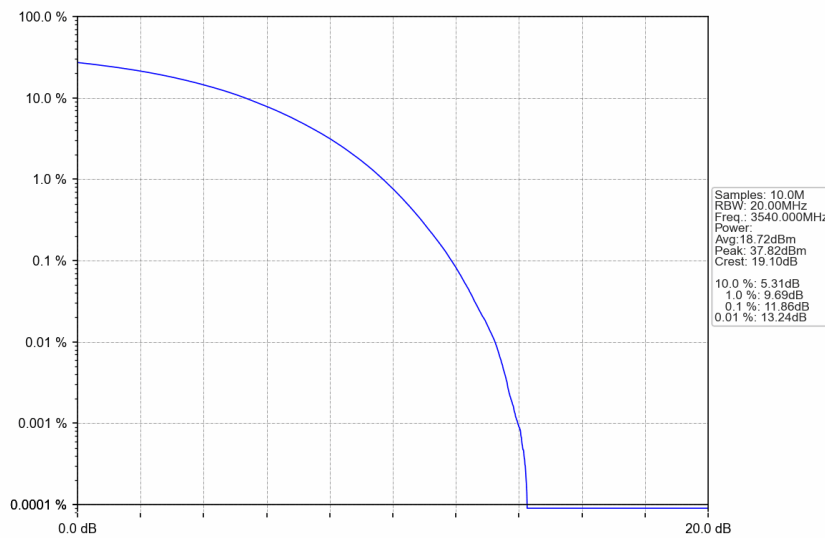
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n77d\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_3499.995MHz\_Outer\_Full



n77d\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM QPSK\_3540MHz\_Outer\_Full

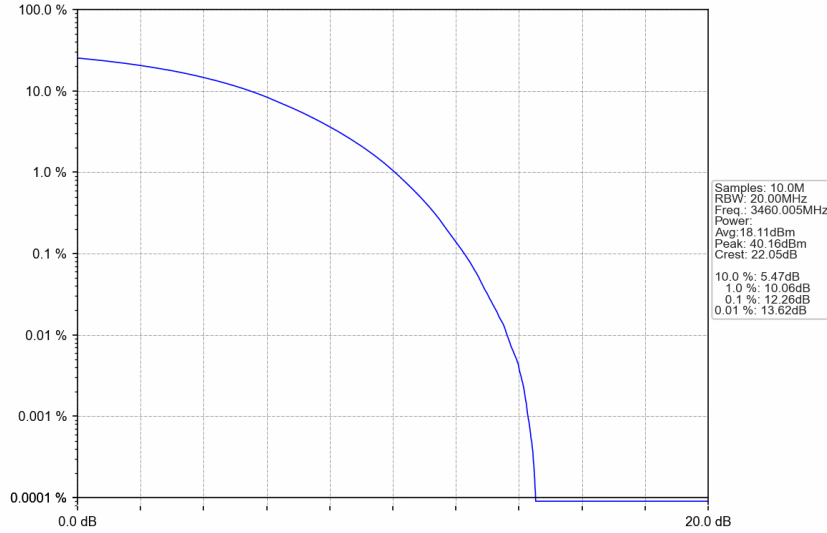


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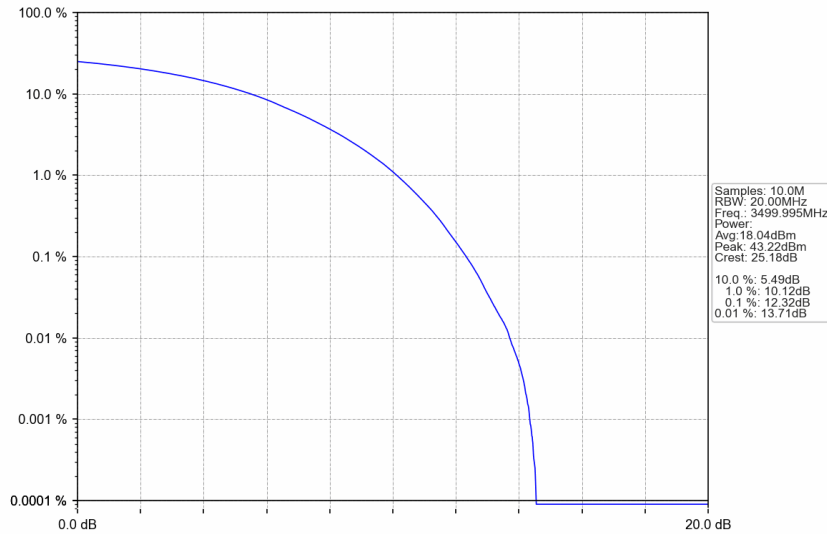
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n77d\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 16 QAM\_3460.005MHz\_Outer\_Full



n77d\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 16 QAM\_3499.995MHz\_Outer\_Full

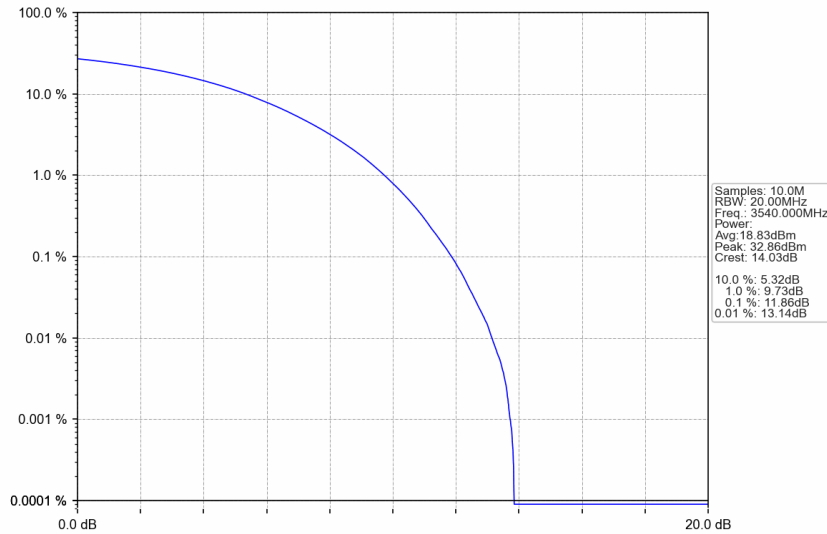


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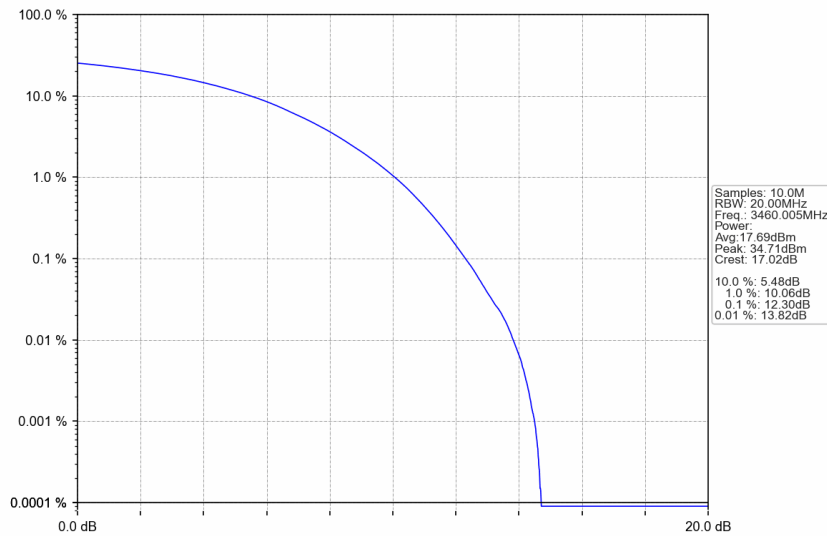
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n77d\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 16 QAM\_3540MHz\_Outer\_Full



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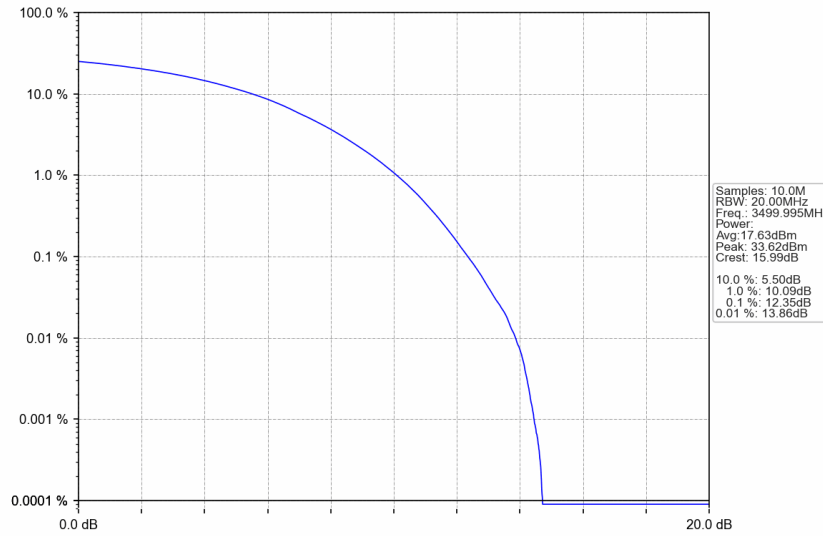


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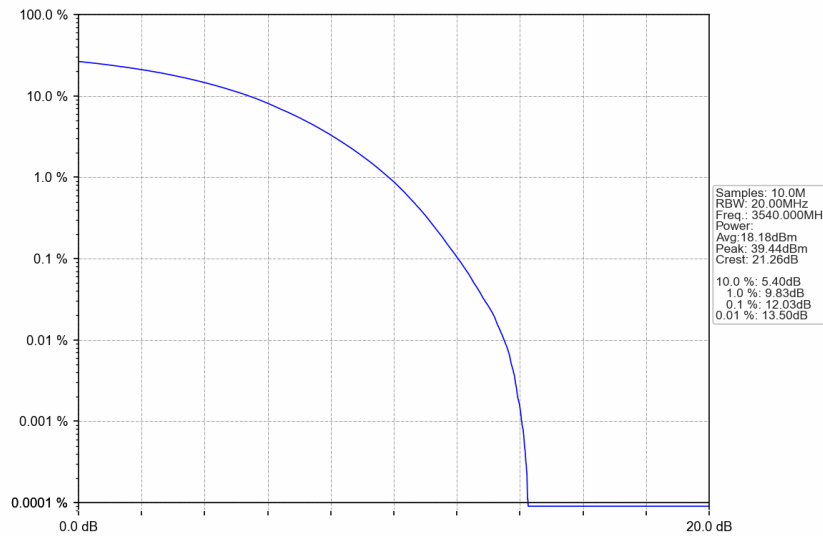
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n77d\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_3499.995MHz\_Outer\_Full



n77d\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 64 QAM\_3540MHz\_Outer\_Full



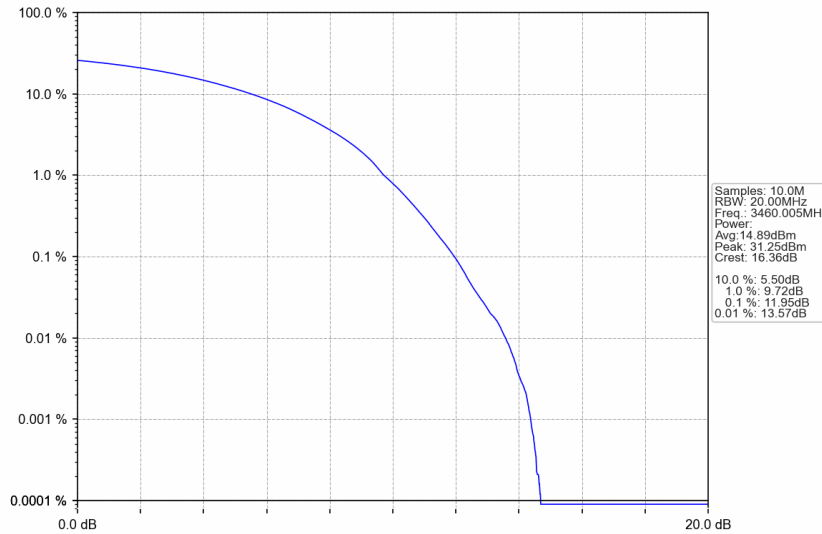
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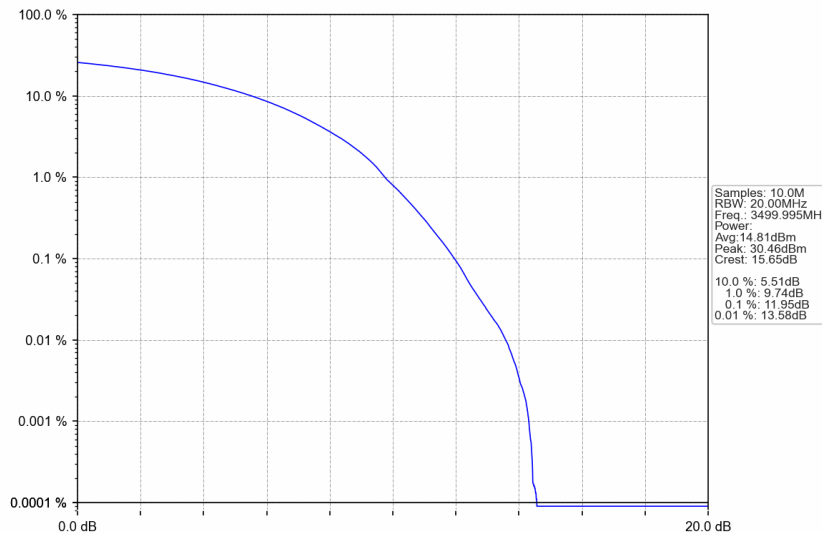
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n77d\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 256 QAM\_3460.005MHz\_Outer\_Full



n77d\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 256 QAM\_3499.995MHz\_Outer\_Full



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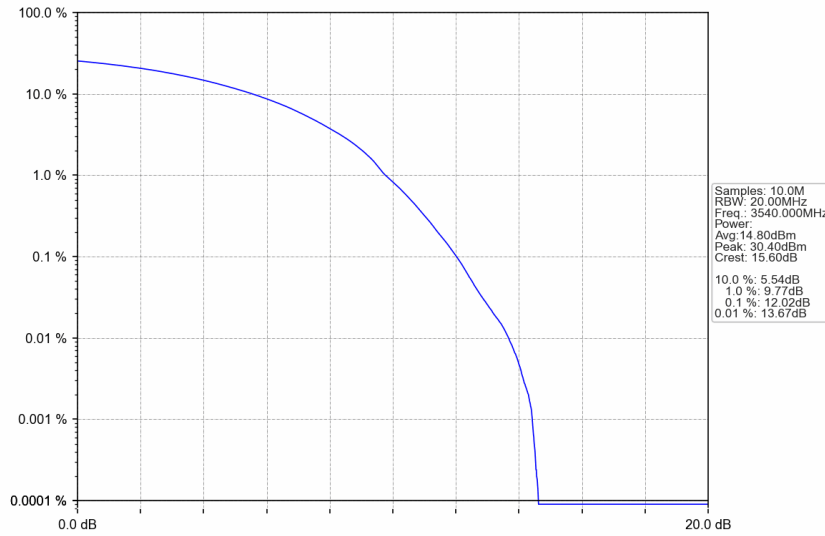


Report No.: SEWM2311000456RG02

Rev.: 01

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n77d\_15kHz\_SISO\_NTNV\_20MHz\_CP-OFDM 256 QAM\_3540MHz\_Outer\_Full



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5.4 15k\_SISO\_25MHz\_NTNV

5.4.1 Test Result

5G NR n77d SCS=15kHz SISO 25MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant5	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3462.51	Outer_Full	9.10	/	/	<=13	Pass
	3499.995	Outer_Full	9.00	/	/	<=13	Pass
	3537.495	Outer_Full	8.71	/	/	<=13	Pass
DFT-s-OFDM QPSK	3462.51	Outer_Full	9.57	/	/	<=13	Pass
	3499.995	Outer_Full	9.63	/	/	<=13	Pass
	3537.495	Outer_Full	9.30	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3462.51	Outer_Full	10.31	/	/	<=13	Pass
	3499.995	Outer_Full	10.29	/	/	<=13	Pass
	3537.495	Outer_Full	10.27	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3462.51	Outer_Full	10.28	/	/	<=13	Pass
	3499.995	Outer_Full	10.79	/	/	<=13	Pass
	3537.495	Outer_Full	10.67	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3462.51	Outer_Full	10.36	/	/	<=13	Pass
	3499.995	Outer_Full	10.57	/	/	<=13	Pass
	3537.495	Outer_Full	10.35	/	/	<=13	Pass
CP-OFDM QPSK	3462.51	Outer_Full	11.73	/	/	<=13	Pass
	3499.995	Outer_Full	11.92	/	/	<=13	Pass
	3537.495	Outer_Full	11.87	/	/	<=13	Pass
CP-OFDM 16 QAM	3462.51	Outer_Full	12.02	/	/	<=13	Pass
	3499.995	Outer_Full	12.15	/	/	<=13	Pass
	3537.495	Outer_Full	12.25	/	/	<=13	Pass
CP-OFDM 64 QAM	3462.51	Outer_Full	11.66	/	/	<=13	Pass
	3499.995	Outer_Full	11.85	/	/	<=13	Pass
	3537.495	Outer_Full	11.73	/	/	<=13	Pass
CP-OFDM 256 QAM	3462.51	Outer_Full	11.84	/	/	<=13	Pass
	3499.995	Outer_Full	11.79	/	/	<=13	Pass
	3537.495	Outer_Full	12.04	/	/	<=13	Pass

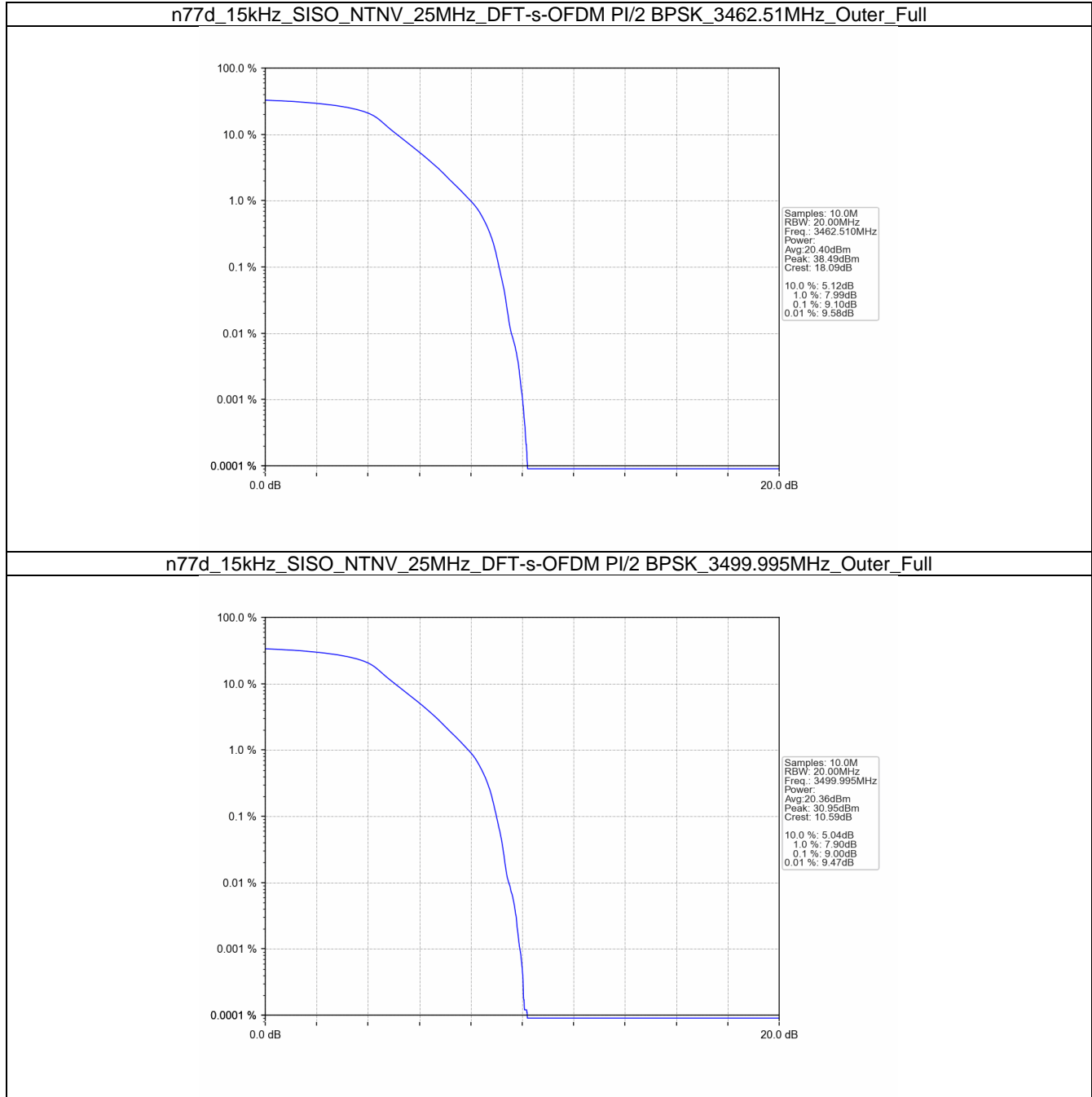


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5.4.2 Test Graph

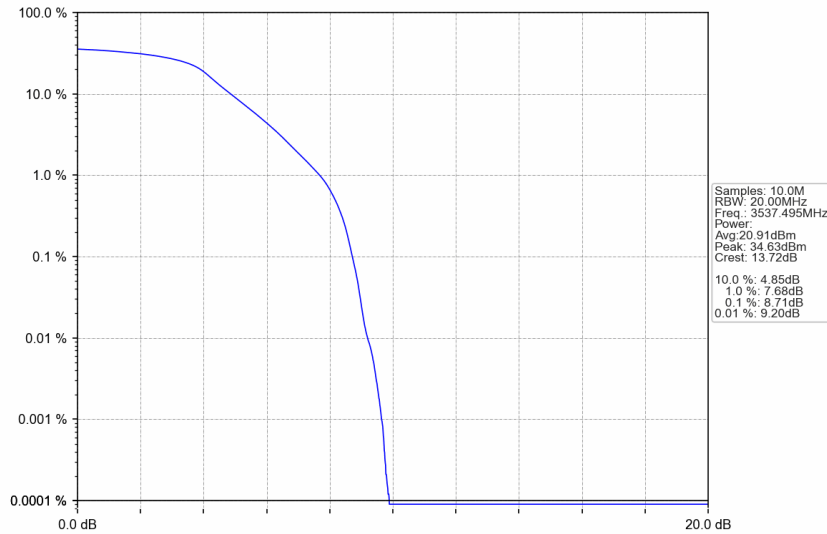


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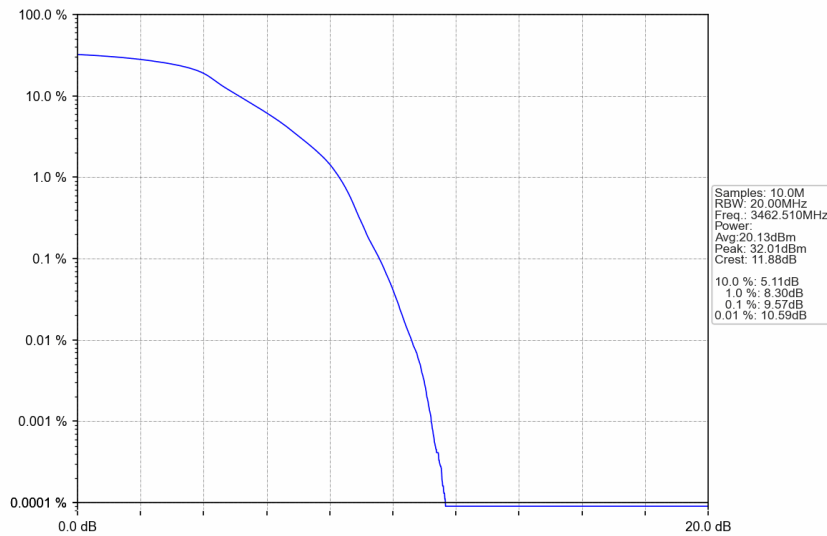
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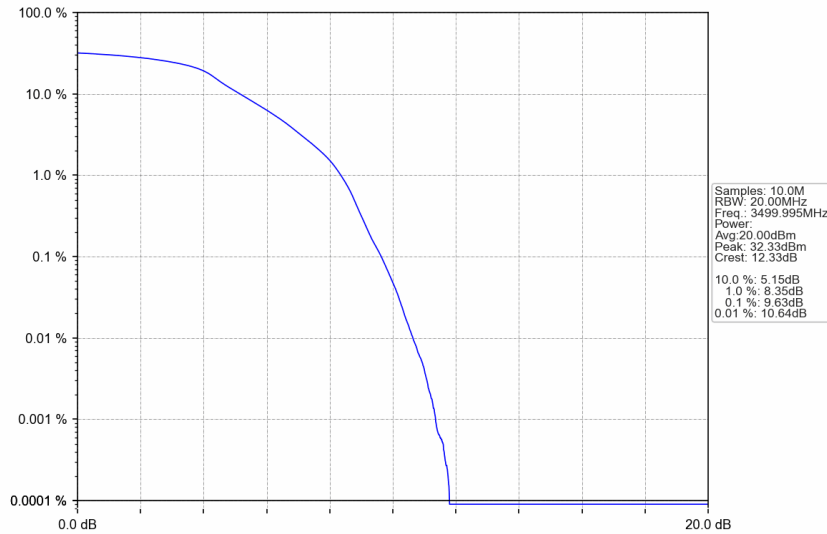


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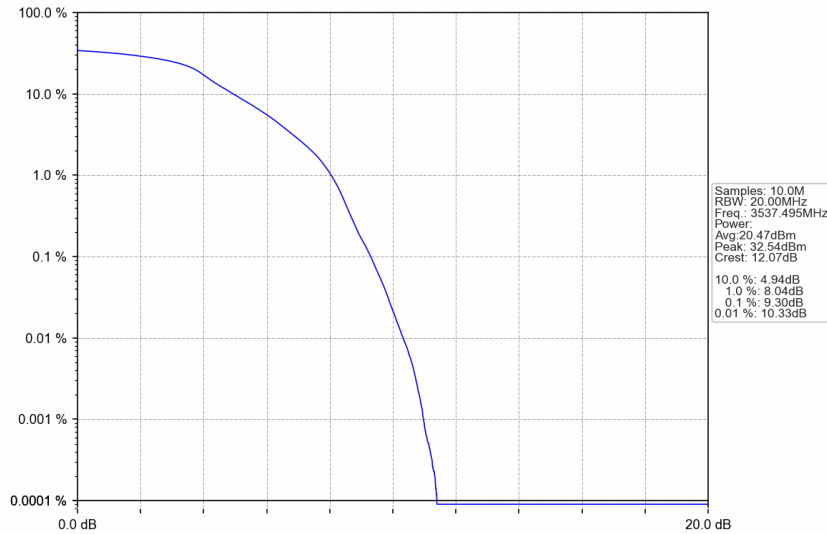
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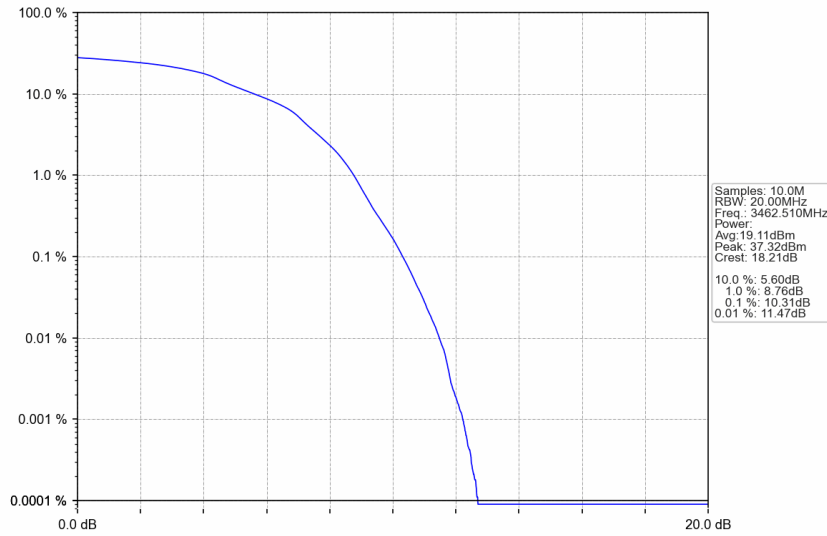


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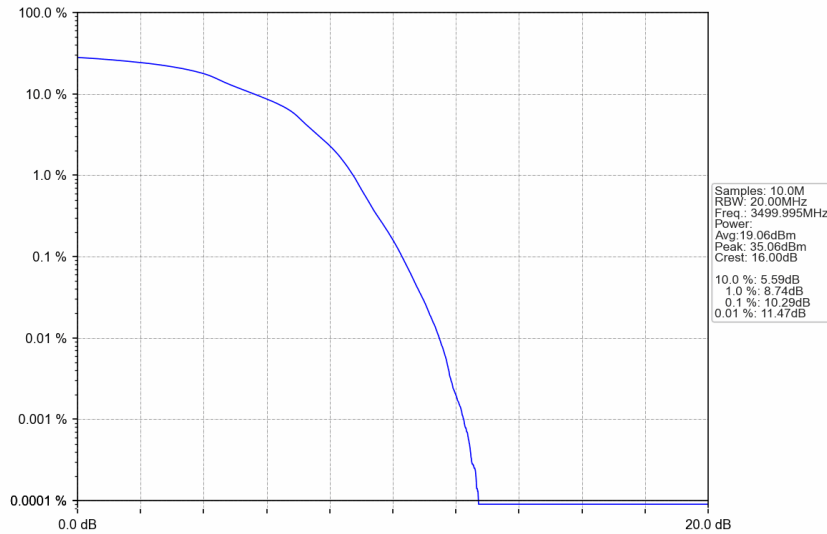
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n77d\_15kHz\_SISO\_NTNV\_25MHz\_DFT-s-OFDM 16 QAM\_3462.51MHz\_Outer\_Full



n77d\_15kHz\_SISO\_NTNV\_25MHz\_DFT-s-OFDM 16 QAM\_3499.995MHz\_Outer\_Full

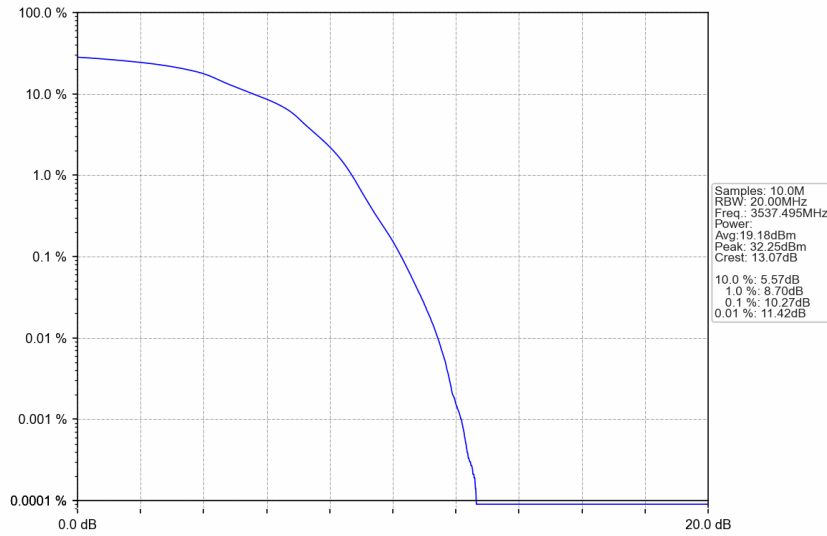


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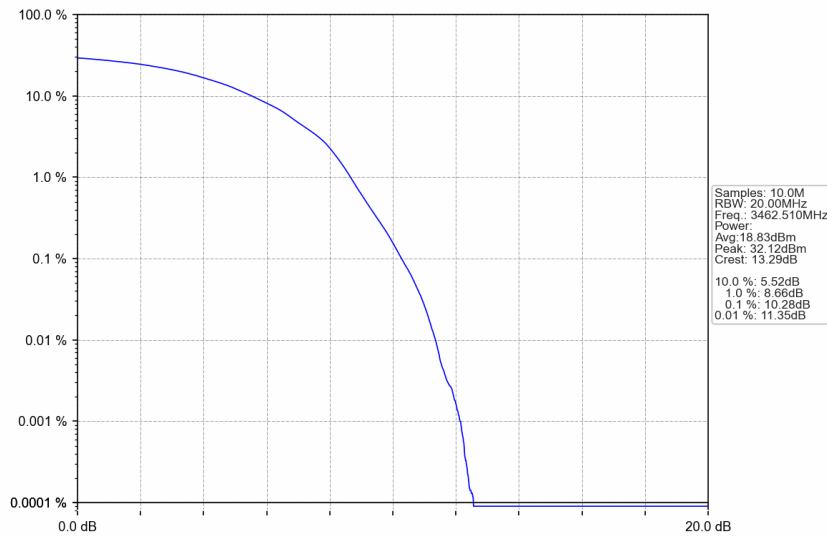
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n77d\_15kHz\_SISO\_NTNV\_25MHz\_DFT-s-OFDM 16 QAM\_3537.495MHz\_Outer\_Full



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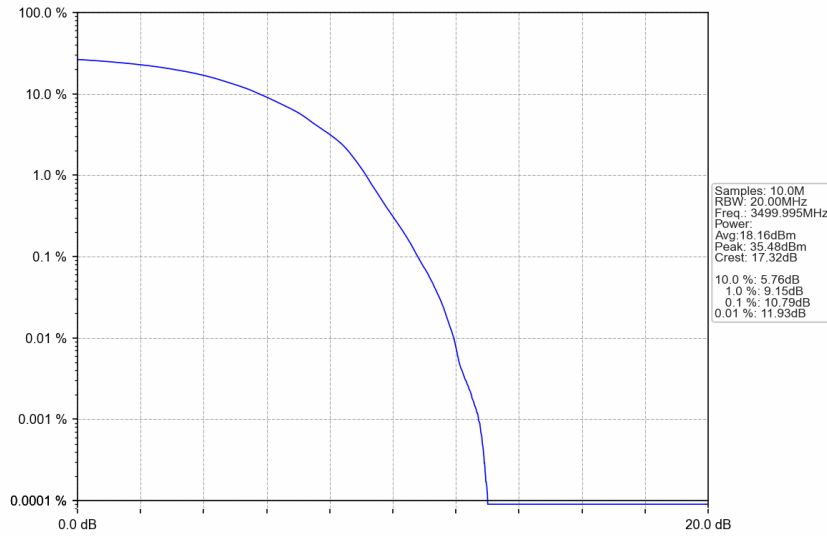
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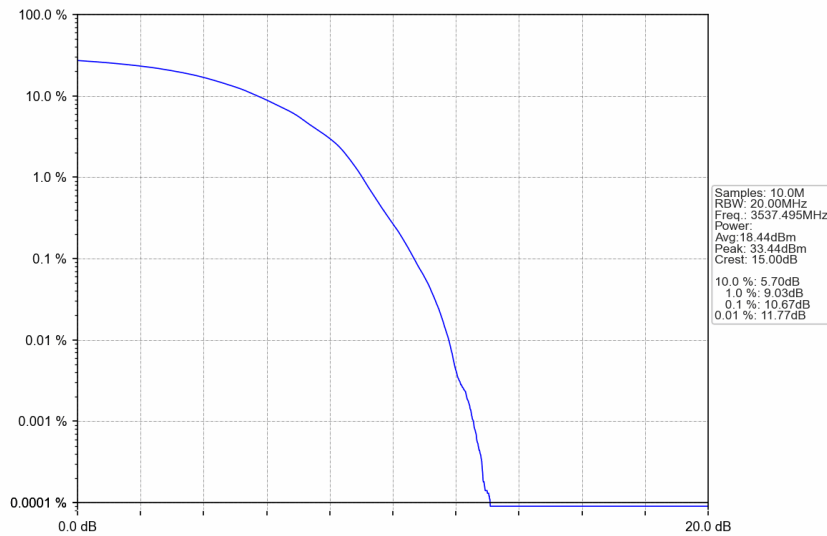
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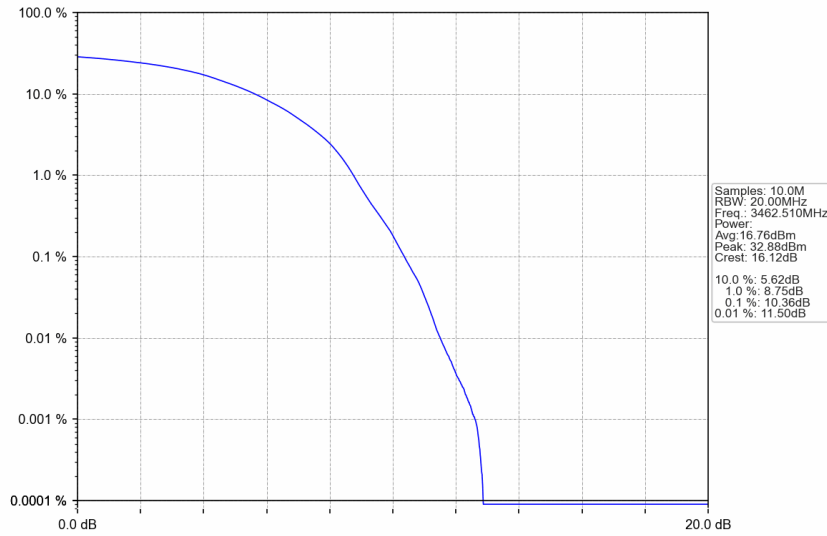
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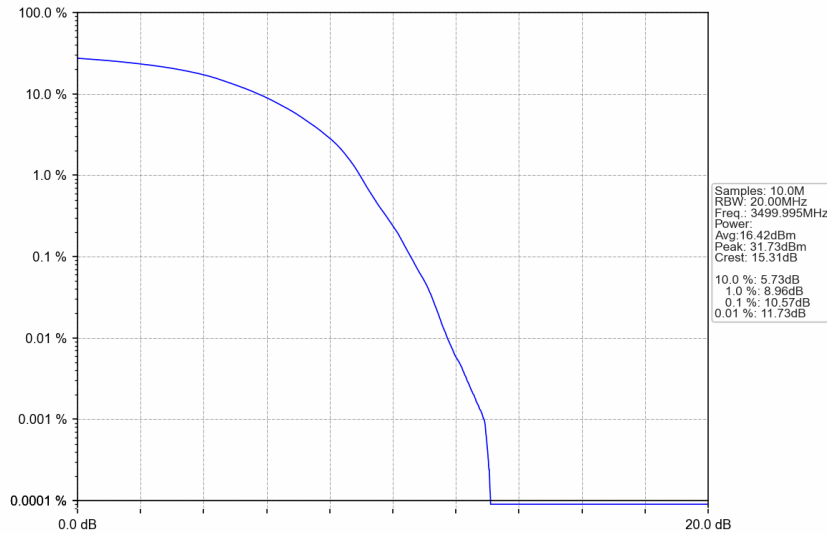
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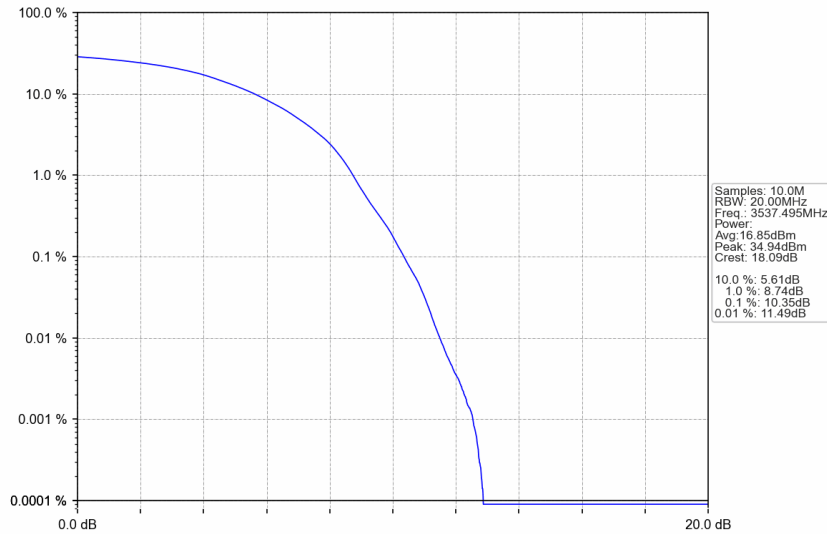


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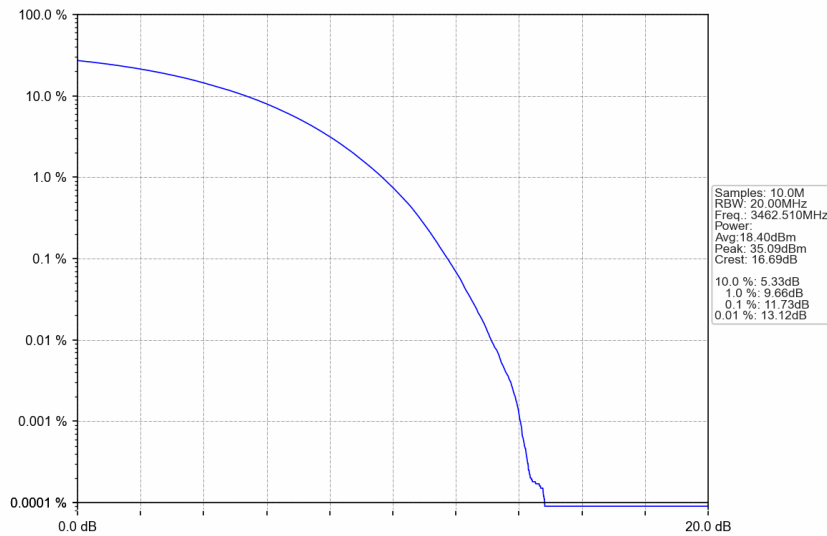
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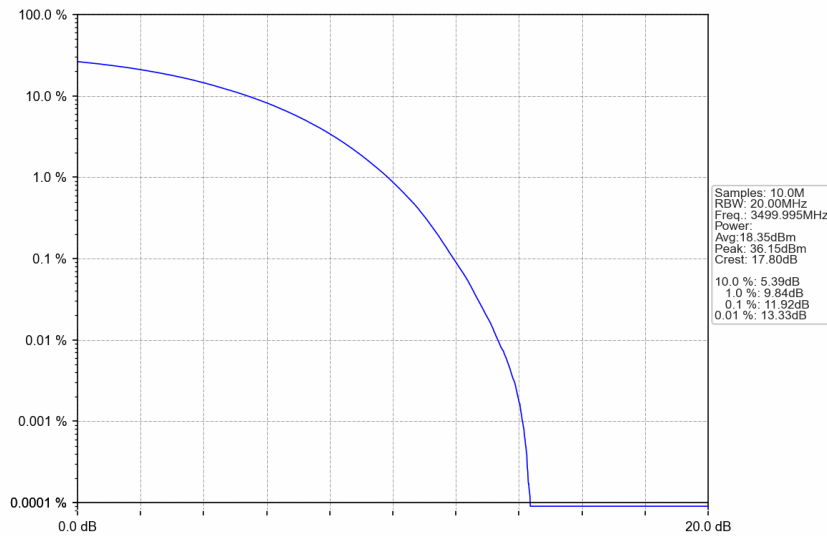
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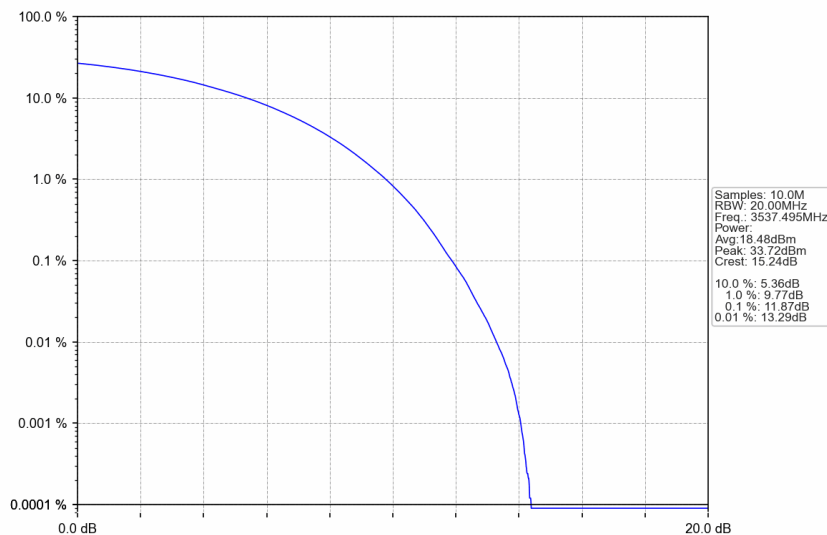
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n77d\_15kHz\_SISO\_NTNV\_25MHz\_CP-OFDM QPSK\_3499.995MHz\_Outer\_Full



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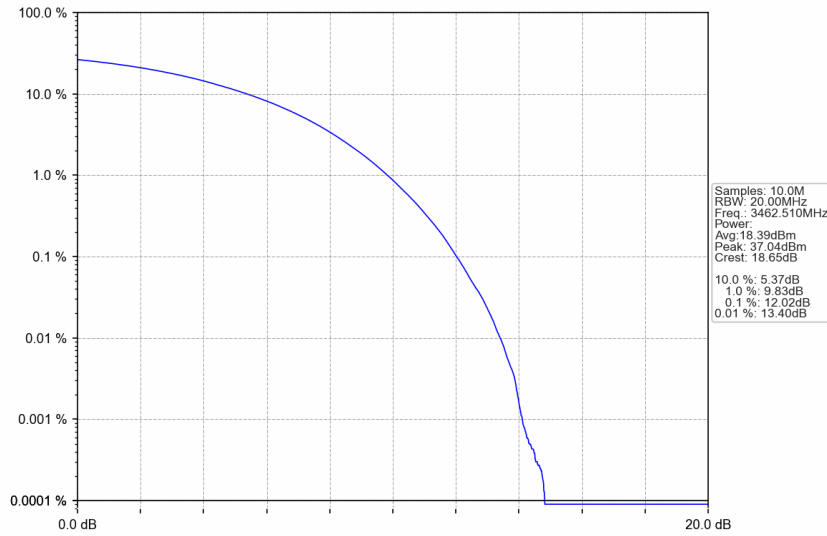


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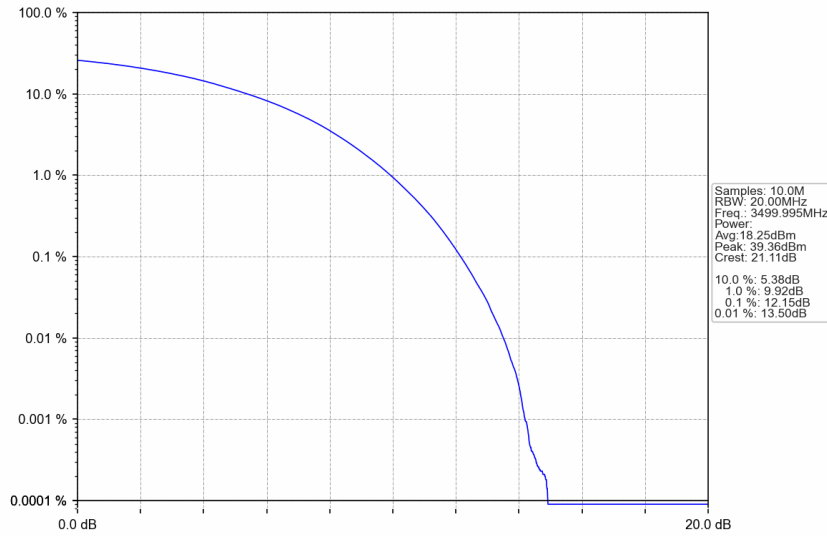
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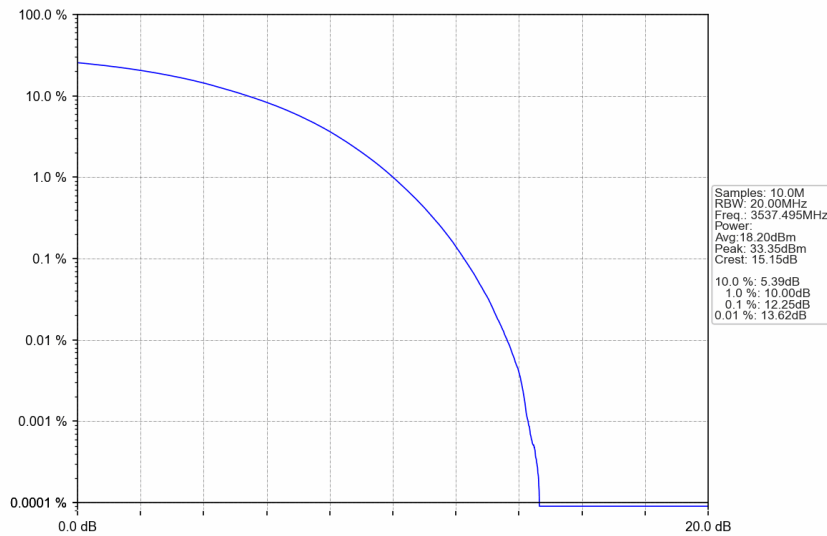
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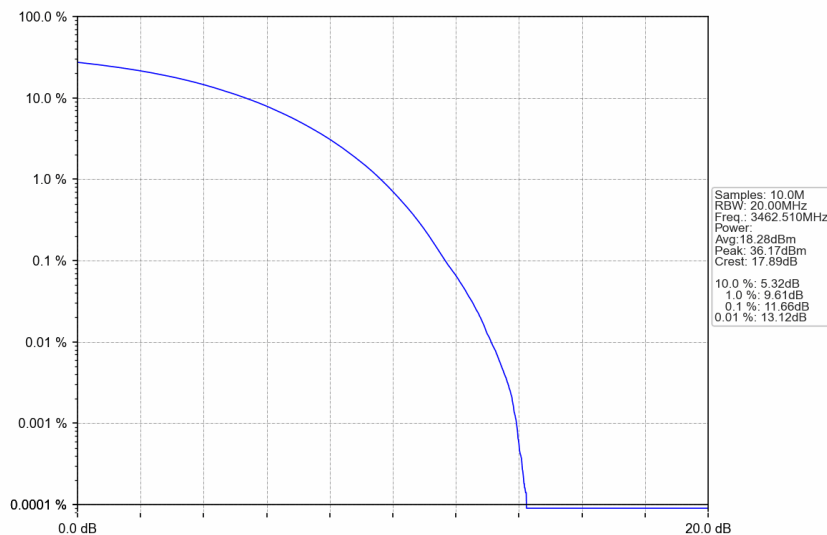
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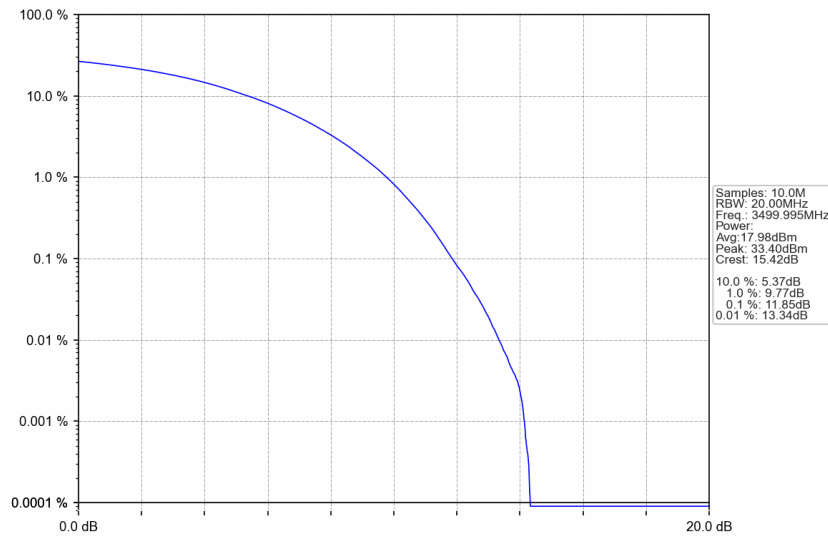


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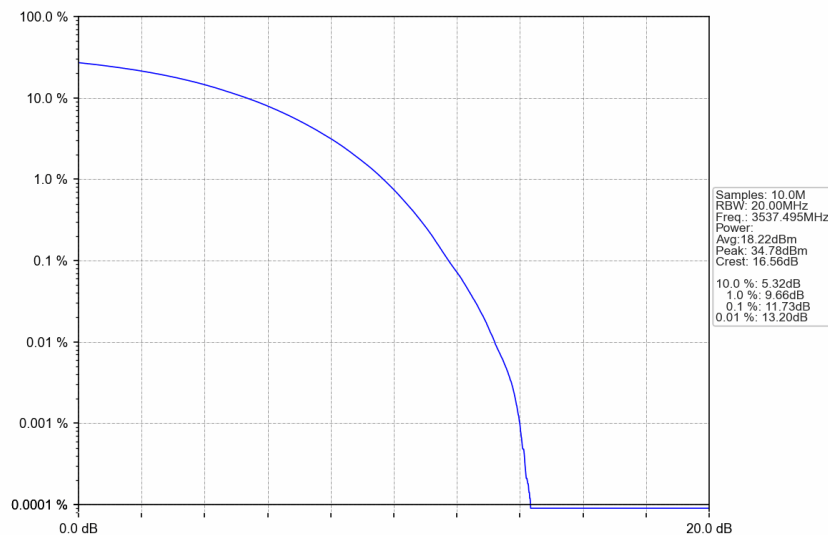
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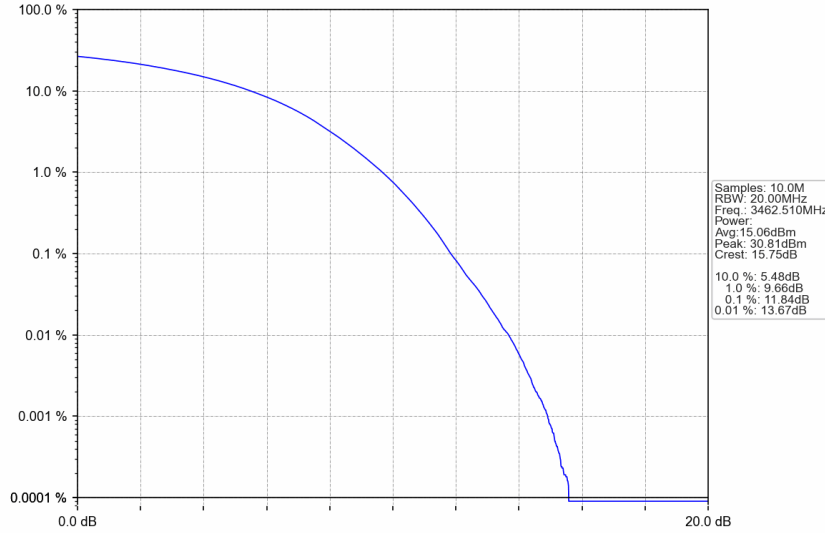
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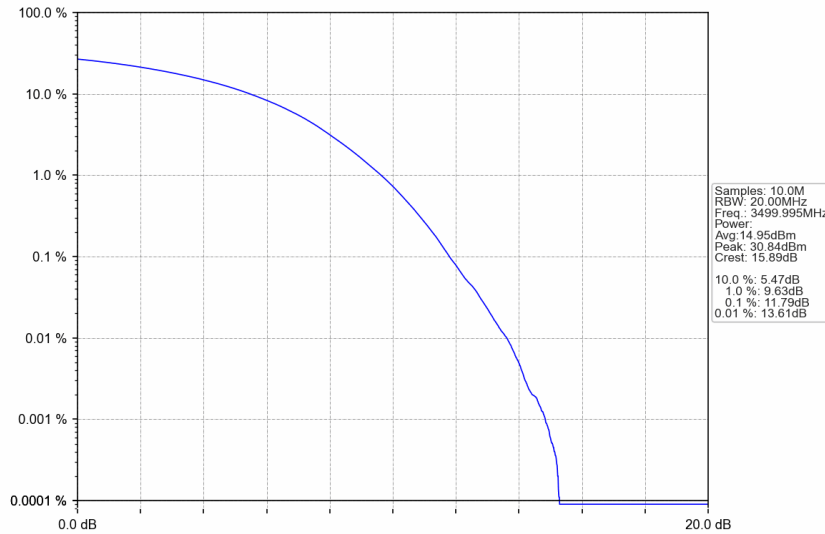
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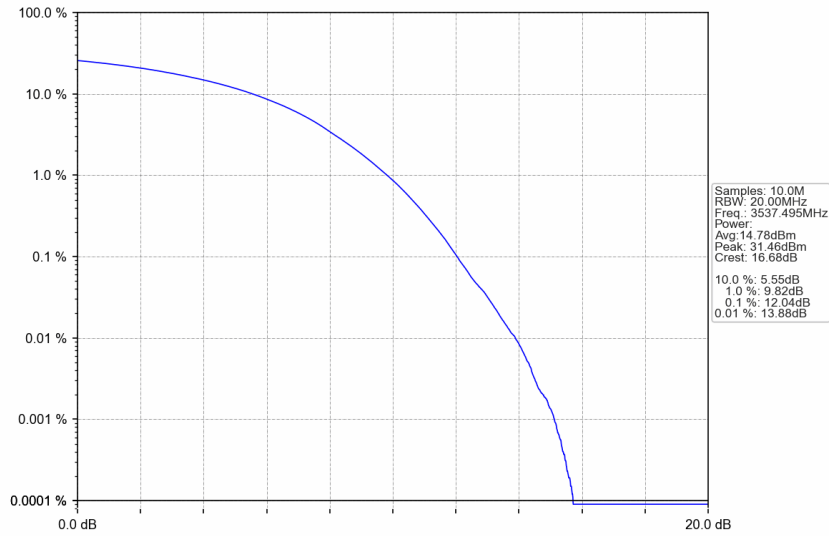
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5.5 15k\_SISO\_30MHz\_NTNV

5.5.1 Test Result

5G NR n77d SCS=15kHz SISO 30MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant5	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3465	Outer_Full	7.71	/	/	<=13	Pass
	3499.995	Outer_Full	7.39	/	/	<=13	Pass
	3534.99	Outer_Full	7.86	/	/	<=13	Pass
DFT-s-OFDM QPSK	3465	Outer_Full	8.95	/	/	<=13	Pass
	3499.995	Outer_Full	8.80	/	/	<=13	Pass
	3534.99	Outer_Full	8.95	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3465	Outer_Full	9.91	/	/	<=13	Pass
	3499.995	Outer_Full	10.07	/	/	<=13	Pass
	3534.99	Outer_Full	9.83	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3465	Outer_Full	10.38	/	/	<=13	Pass
	3499.995	Outer_Full	9.91	/	/	<=13	Pass
	3534.99	Outer_Full	10.37	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3465	Outer_Full	9.82	/	/	<=13	Pass
	3499.995	Outer_Full	9.97	/	/	<=13	Pass
	3534.99	Outer_Full	9.83	/	/	<=13	Pass
CP-OFDM QPSK	3465	Outer_Full	12.29	/	/	<=13	Pass
	3499.995	Outer_Full	12.00	/	/	<=13	Pass
	3534.99	Outer_Full	12.17	/	/	<=13	Pass
CP-OFDM 16 QAM	3465	Outer_Full	12.30	/	/	<=13	Pass
	3499.995	Outer_Full	12.42	/	/	<=13	Pass
	3534.99	Outer_Full	12.27	/	/	<=13	Pass
CP-OFDM 64 QAM	3465	Outer_Full	12.20	/	/	<=13	Pass
	3499.995	Outer_Full	12.17	/	/	<=13	Pass
	3534.99	Outer_Full	12.05	/	/	<=13	Pass
CP-OFDM 256 QAM	3465	Outer_Full	12.21	/	/	<=13	Pass
	3499.995	Outer_Full	11.87	/	/	<=13	Pass
	3534.99	Outer_Full	12.08	/	/	<=13	Pass



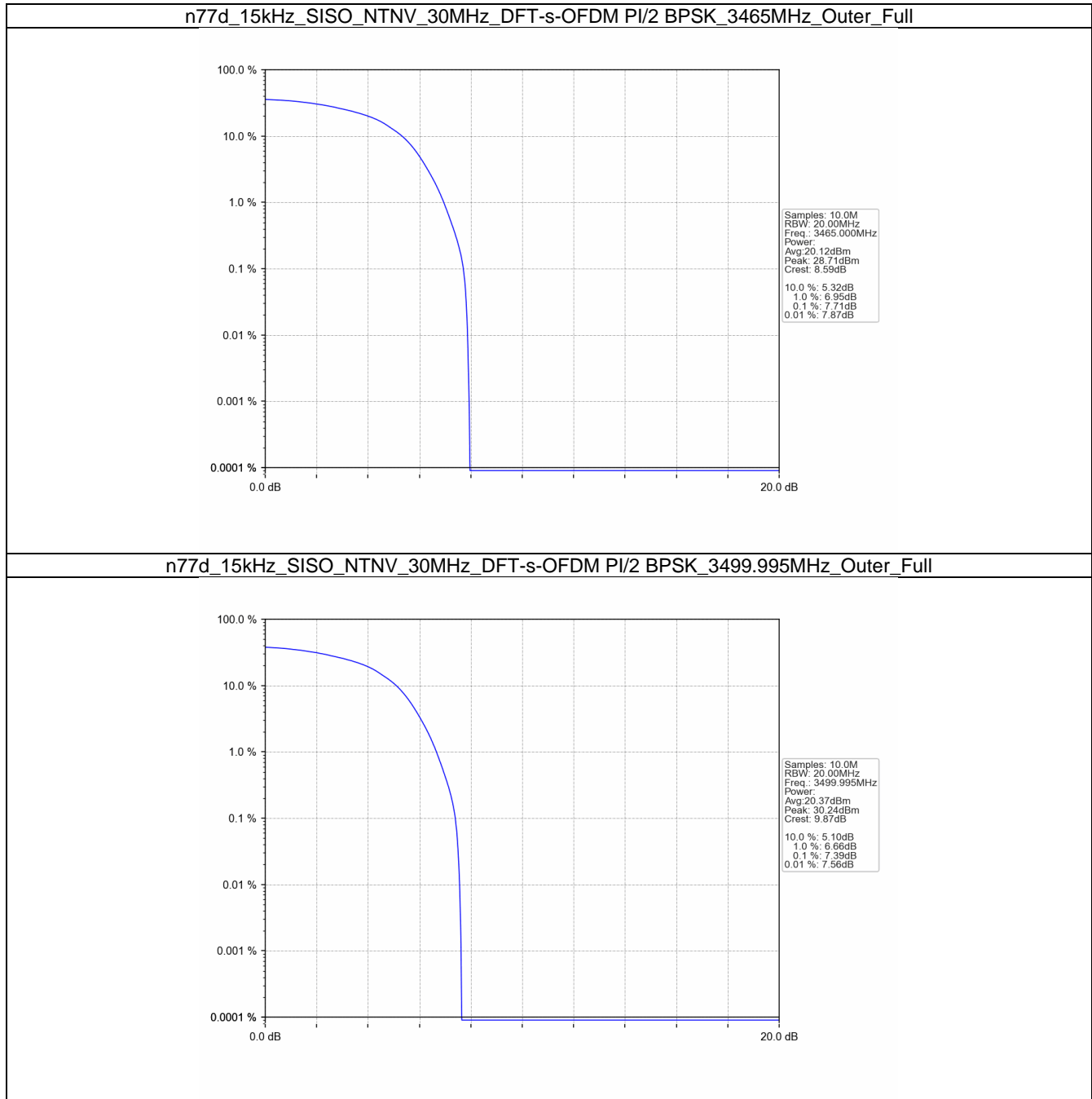
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5.5.2 Test Graph



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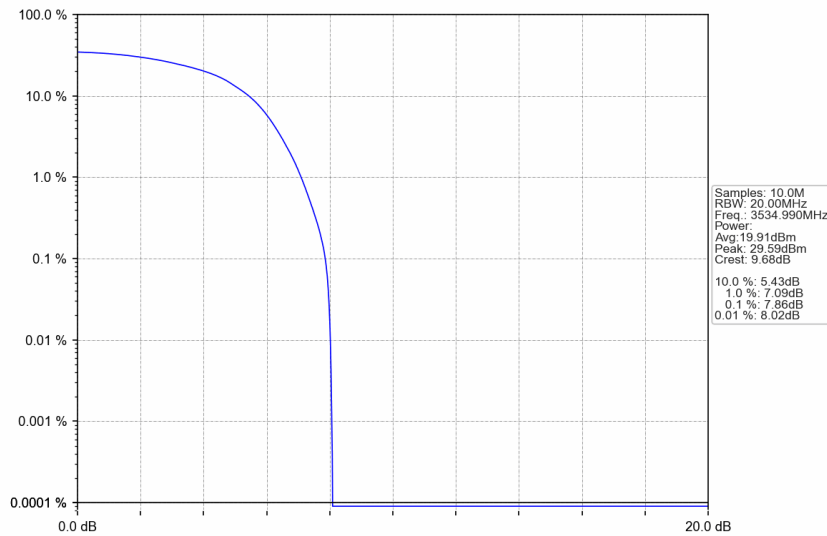
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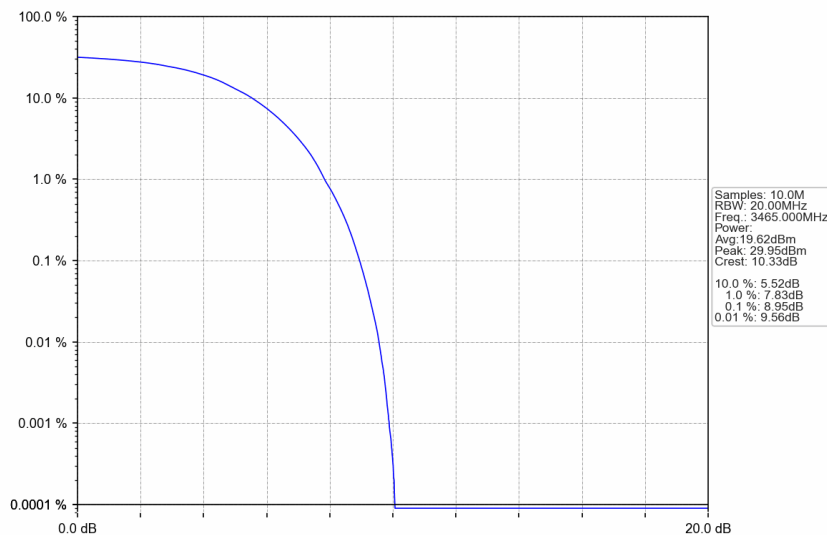
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n77d\_15kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM QPSK\_3465MHz\_Outer\_Full



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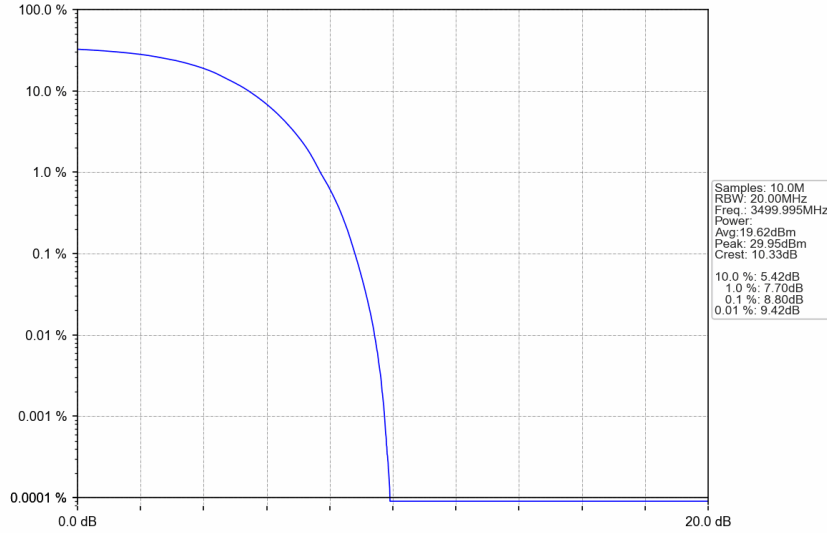


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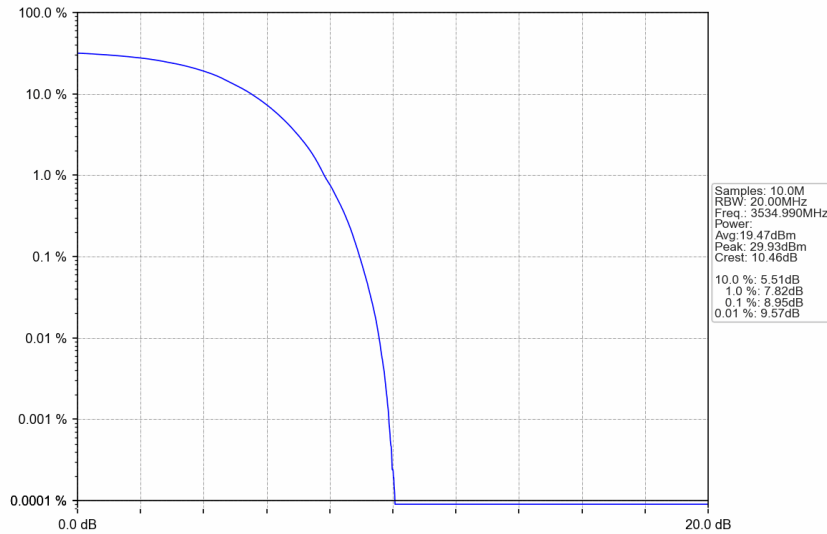
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n77d\_15kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM QPSK\_3499.995MHz\_Outer\_Full



n77d\_15kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM QPSK\_3534.99MHz\_Outer\_Full



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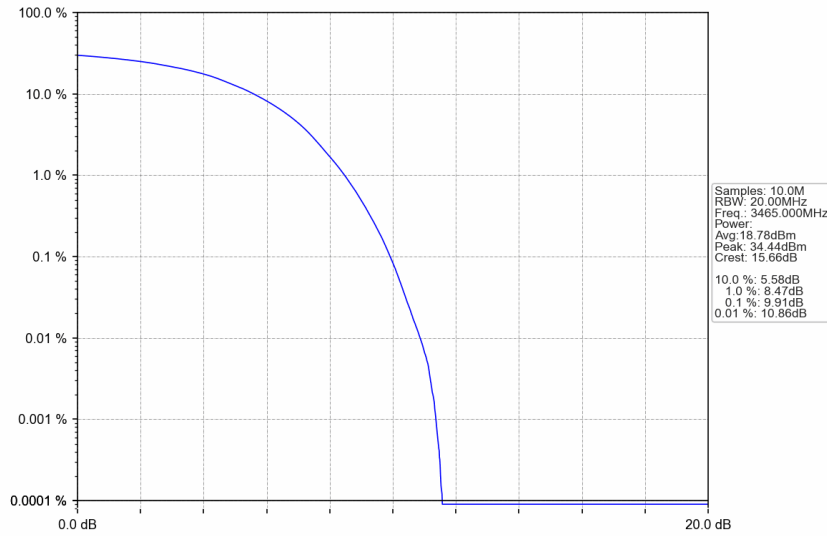
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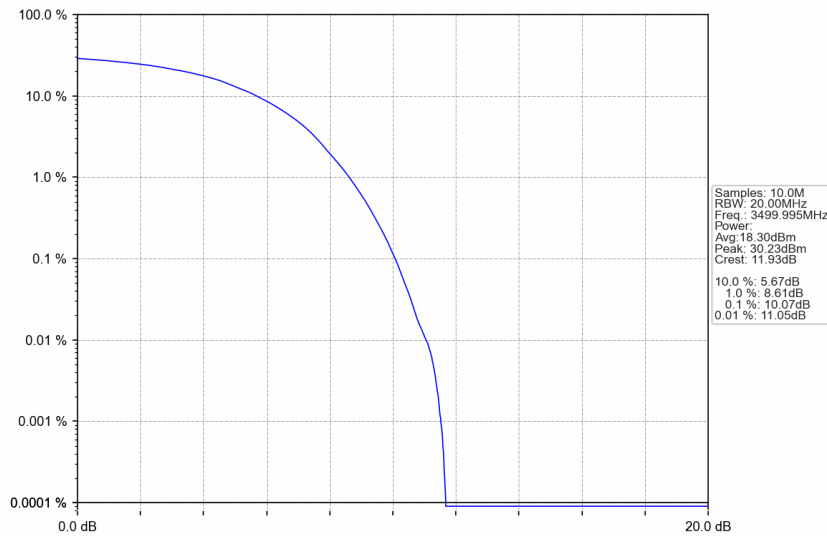
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n77d\_15kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM\_16\_QAM\_3465MHz\_Outer\_Full



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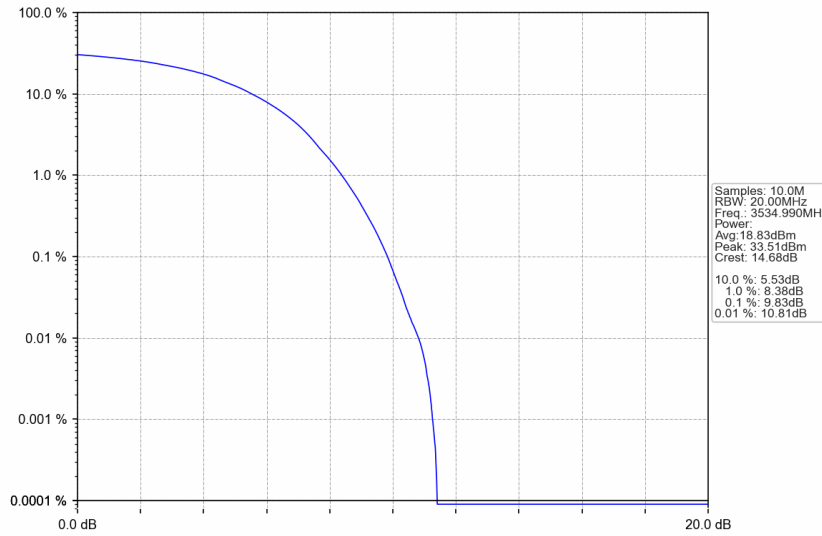


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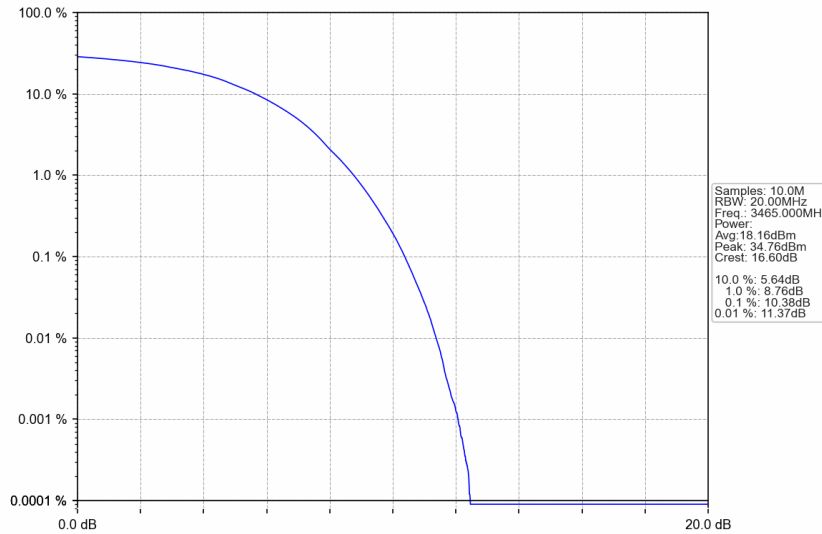
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n77d\_15kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM 16 QAM\_3534.99MHz\_Outer\_Full



n77d\_15kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM 64 QAM\_3465MHz\_Outer\_Full



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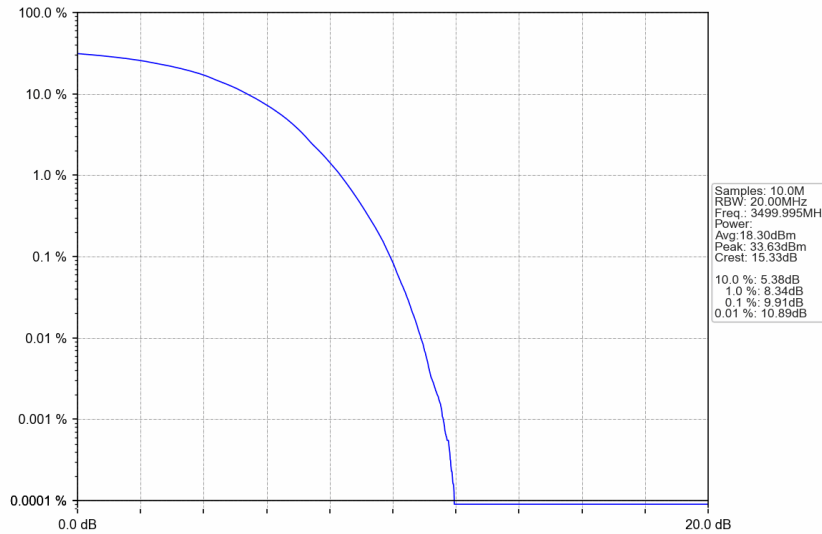


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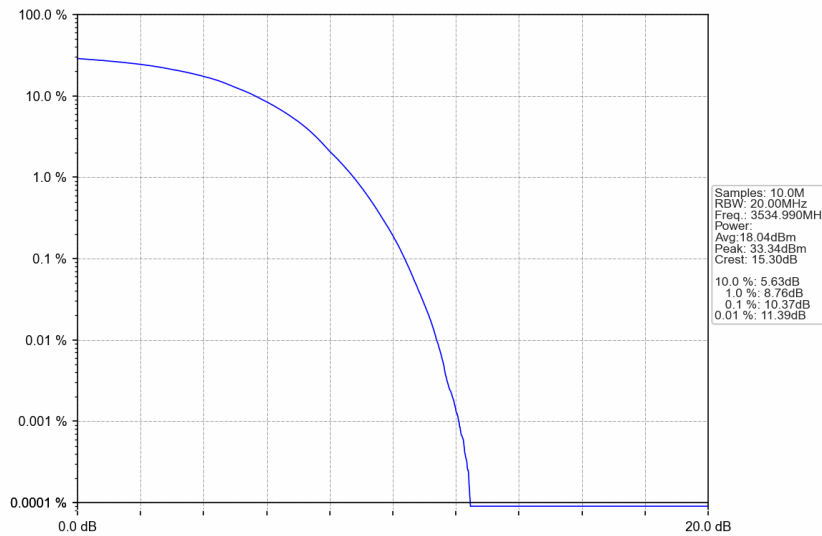
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n77d\_15kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM 64 QAM\_3499.995MHz\_Outer\_Full



n77d\_15kHz\_SISO\_NTNV\_30MHz\_DFT-s-OFDM 64 QAM\_3534.99MHz\_Outer\_Full



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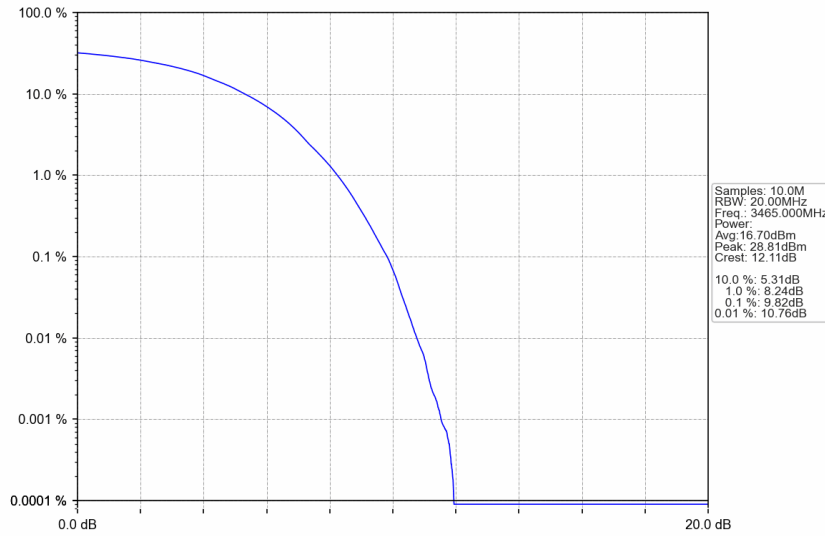


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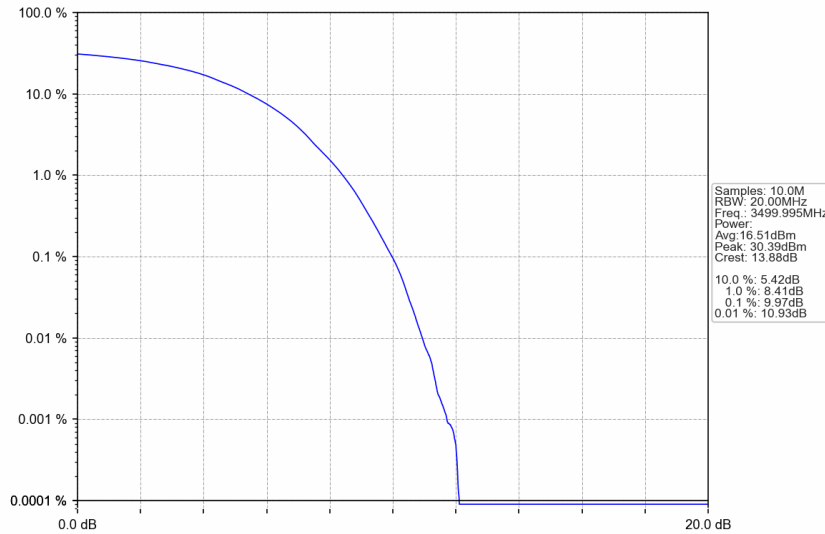
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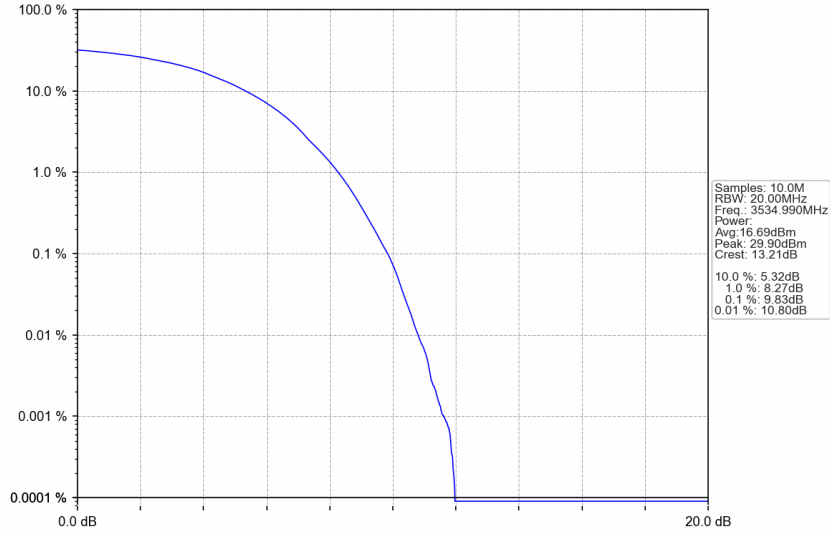


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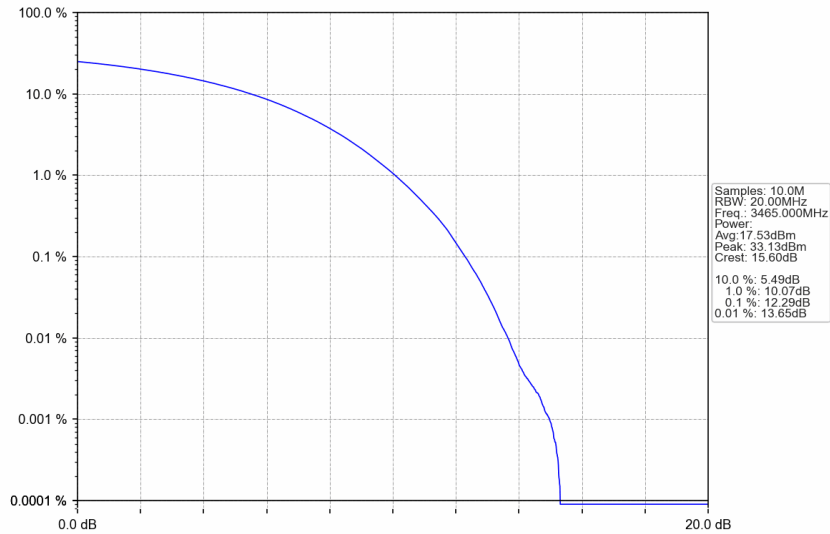
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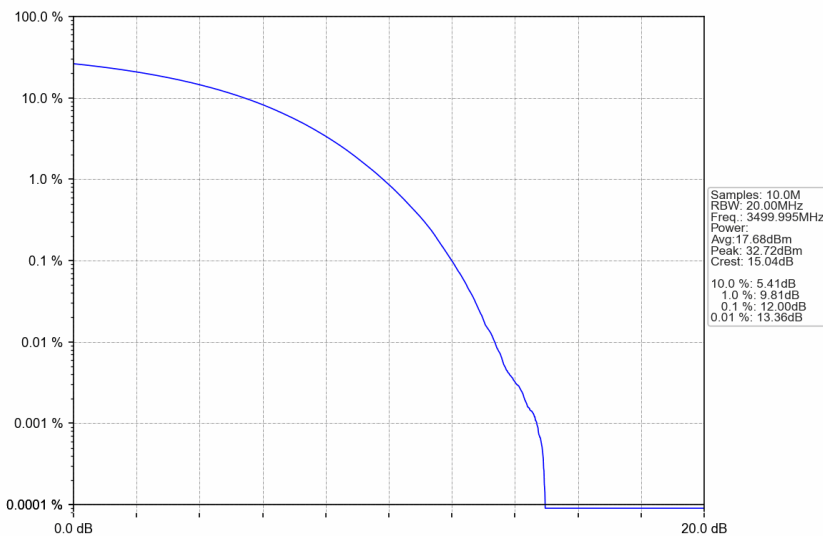


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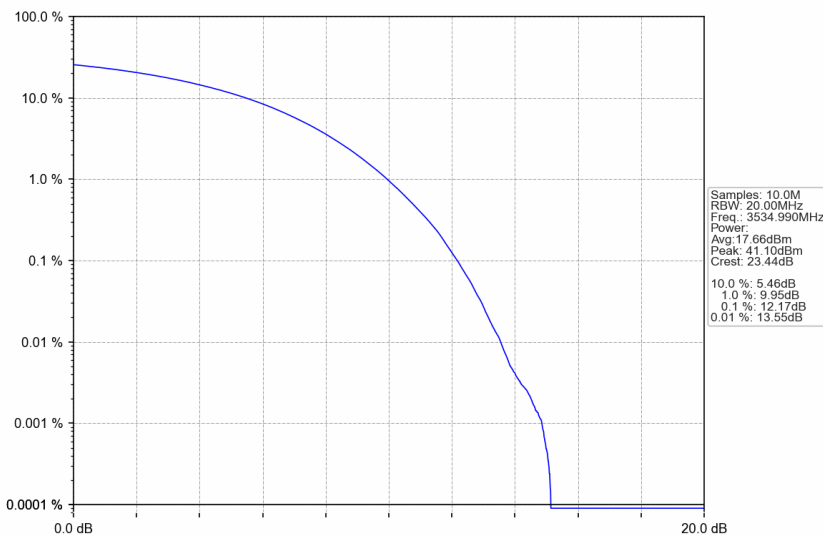
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n77d\_15kHz\_SISO\_NTNV\_30MHz\_CP-OFDM QPSK\_3499.995MHz\_Outer\_Full



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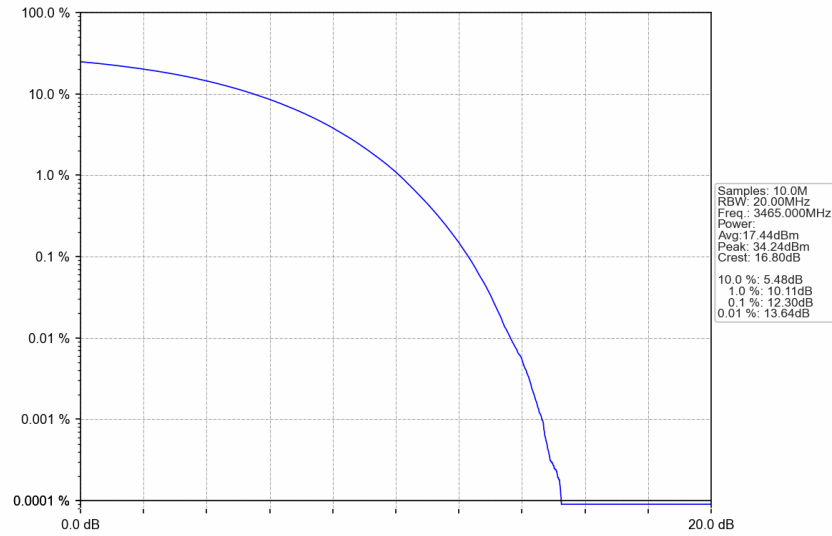
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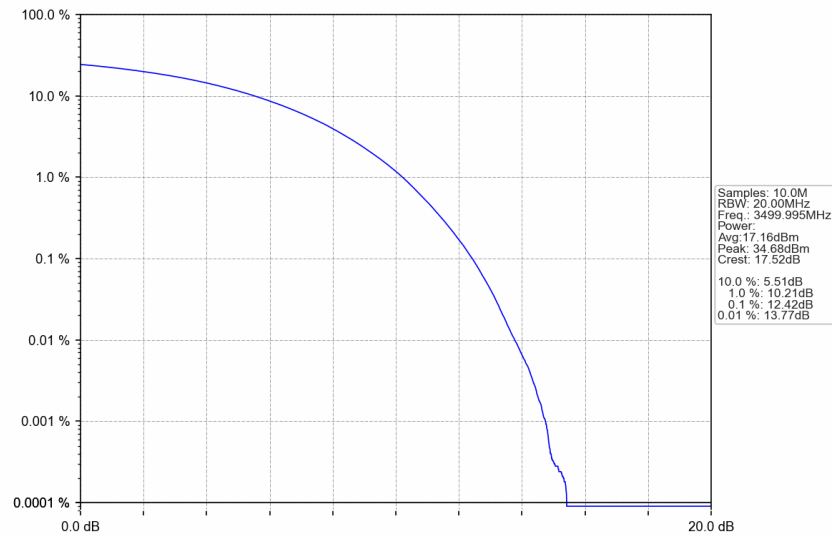
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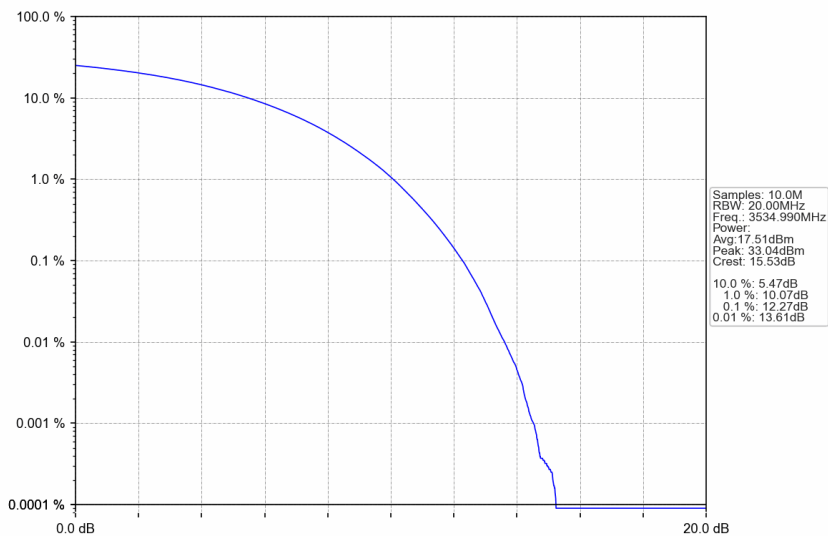
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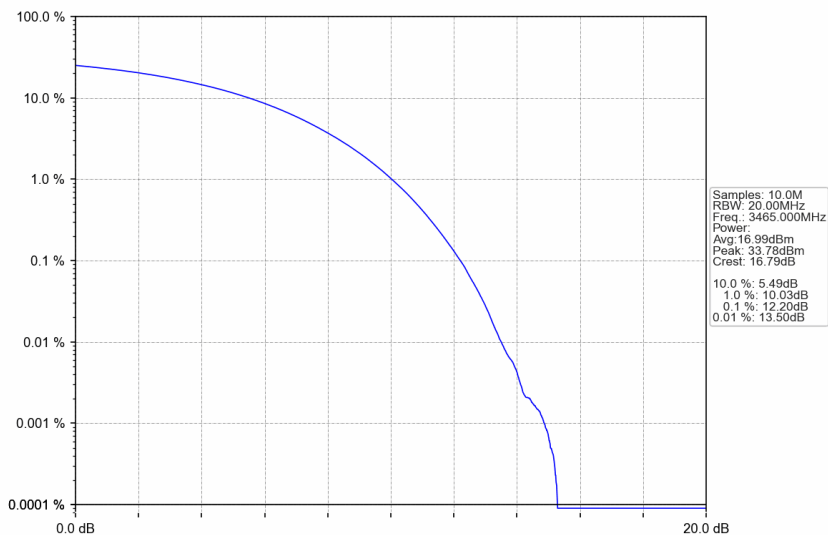
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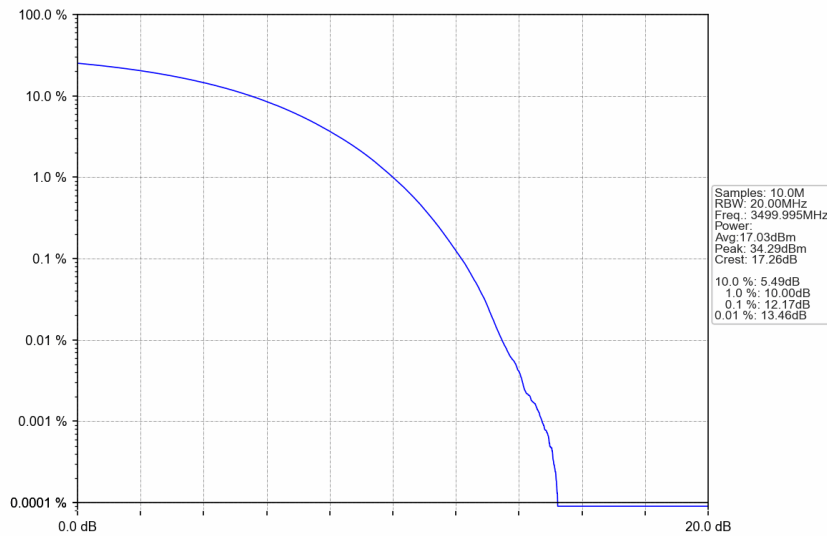


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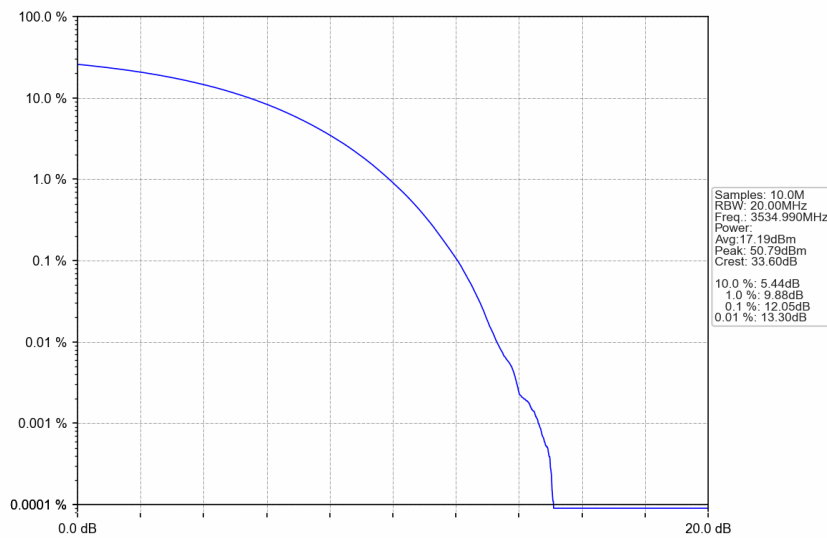
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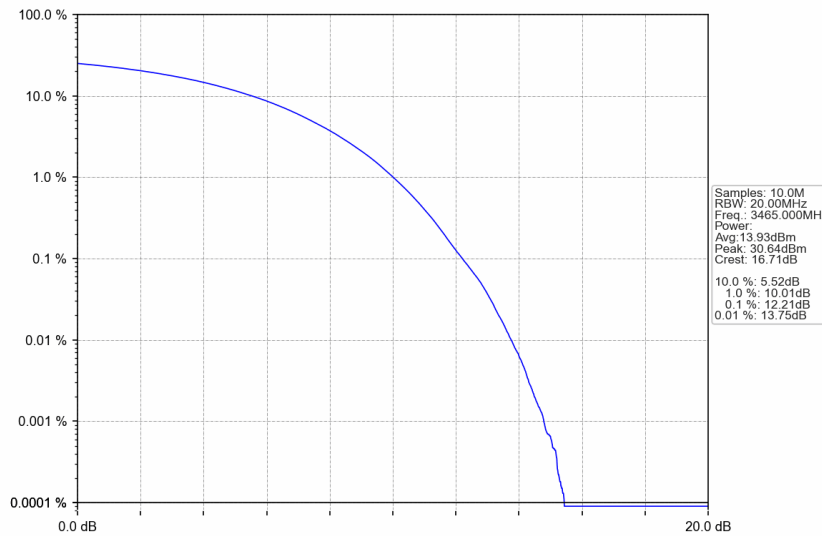
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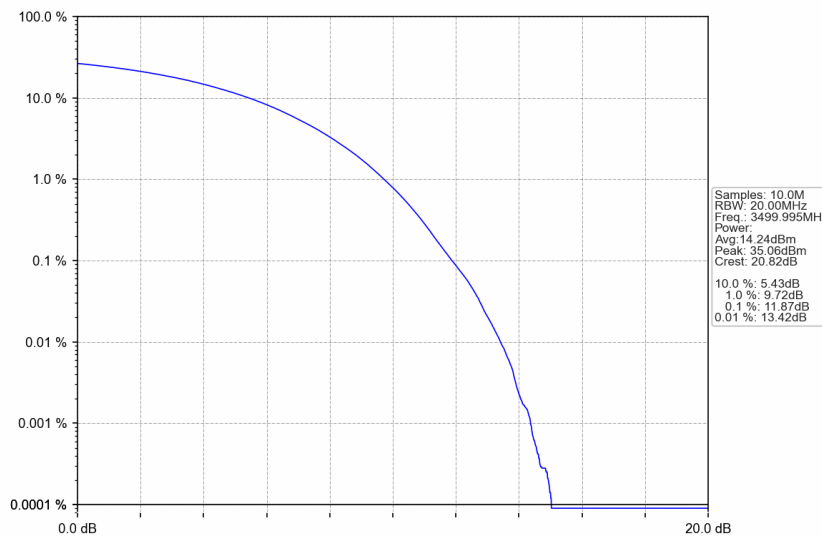


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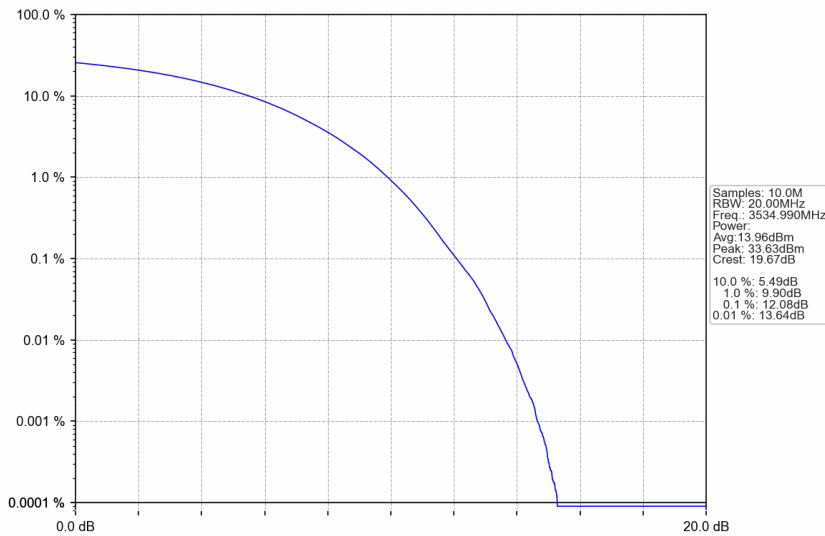


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5.6 15k\_SISO\_40MHz\_NTNV

5.6.1 Test Result

5G NR n77d 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	3470.01	Outer_Full	7.95	/	/	<=13	Pass
	3499.995	Outer_Full	8.04	/	/	<=13	Pass
	3529.995	Outer_Full	7.90	/	/	<=13	Pass
DFT-s-OFDM QPSK	3470.01	Outer_Full	9.41	/	/	<=13	Pass
	3499.995	Outer_Full	9.26	/	/	<=13	Pass
	3529.995	Outer_Full	9.46	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3470.01	Outer_Full	10.46	/	/	<=13	Pass
	3499.995	Outer_Full	10.15	/	/	<=13	Pass
	3529.995	Outer_Full	11.08	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3470.01	Outer_Full	11.03	/	/	<=13	Pass
	3499.995	Outer_Full	10.84	/	/	<=13	Pass
	3529.995	Outer_Full	10.67	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3470.01	Outer_Full	11.01	/	/	<=13	Pass
	3499.995	Outer_Full	10.78	/	/	<=13	Pass
	3529.995	Outer_Full	10.22	/	/	<=13	Pass
CP-OFDM QPSK	3470.01	Outer_Full	12.13	/	/	<=13	Pass
	3499.995	Outer_Full	12.08	/	/	<=13	Pass
	3529.995	Outer_Full	12.21	/	/	<=13	Pass
CP-OFDM 16 QAM	3470.01	Outer_Full	12.04	/	/	<=13	Pass
	3499.995	Outer_Full	11.91	/	/	<=13	Pass
	3529.995	Outer_Full	12.12	/	/	<=13	Pass
CP-OFDM 64 QAM	3470.01	Outer_Full	12.37	/	/	<=13	Pass
	3499.995	Outer_Full	12.28	/	/	<=13	Pass
	3529.995	Outer_Full	12.23	/	/	<=13	Pass
CP-OFDM 256 QAM	3470.01	Outer_Full	11.96	/	/	<=13	Pass
	3499.995	Outer_Full	12.19	/	/	<=13	Pass
	3529.995	Outer_Full	11.86	/	/	<=13	Pass

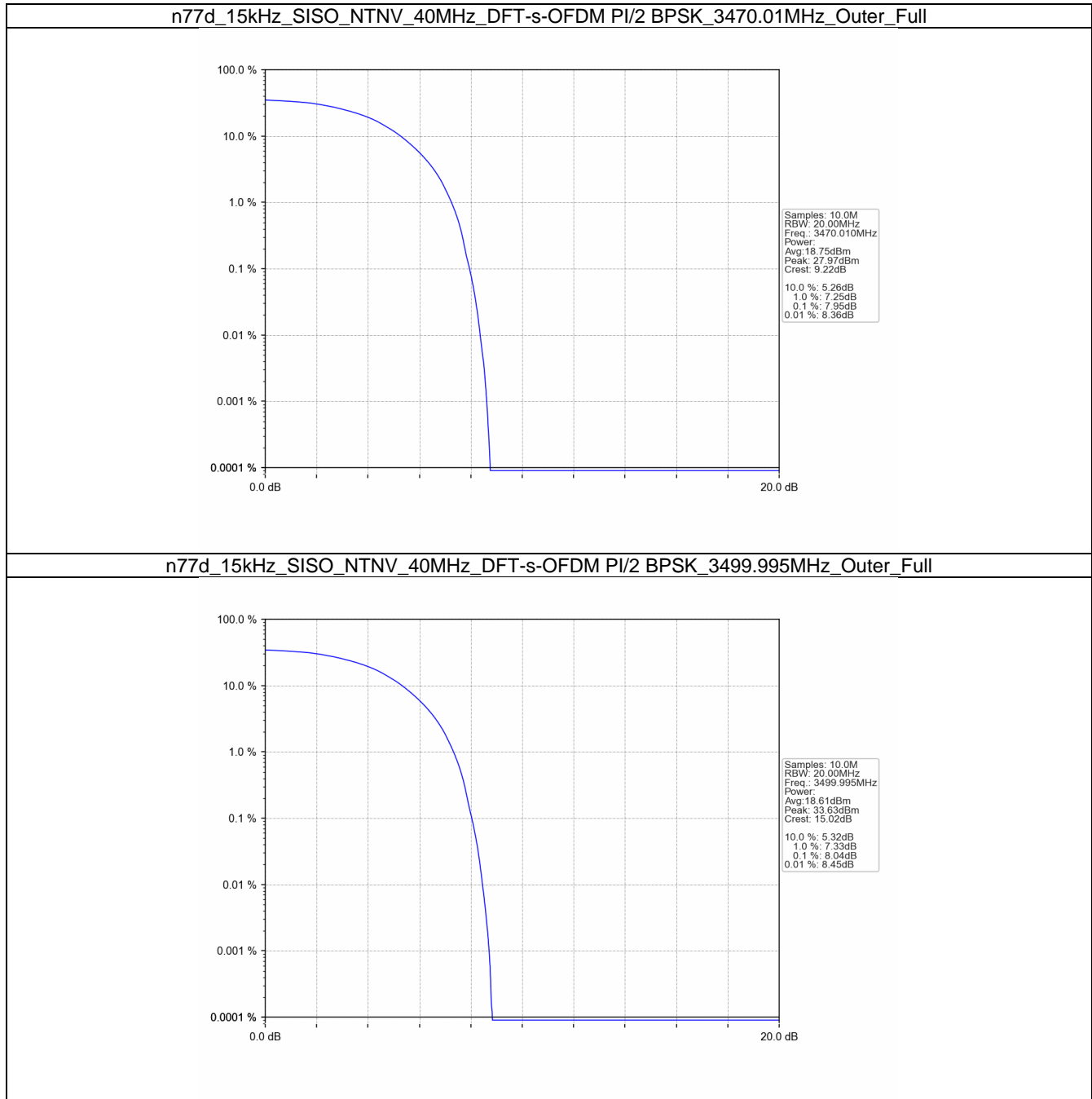


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5.6.2 Test Graph

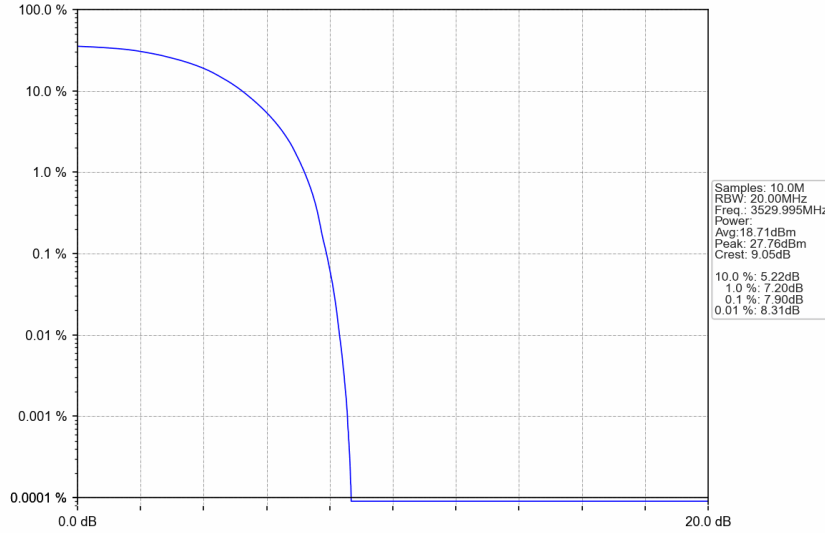


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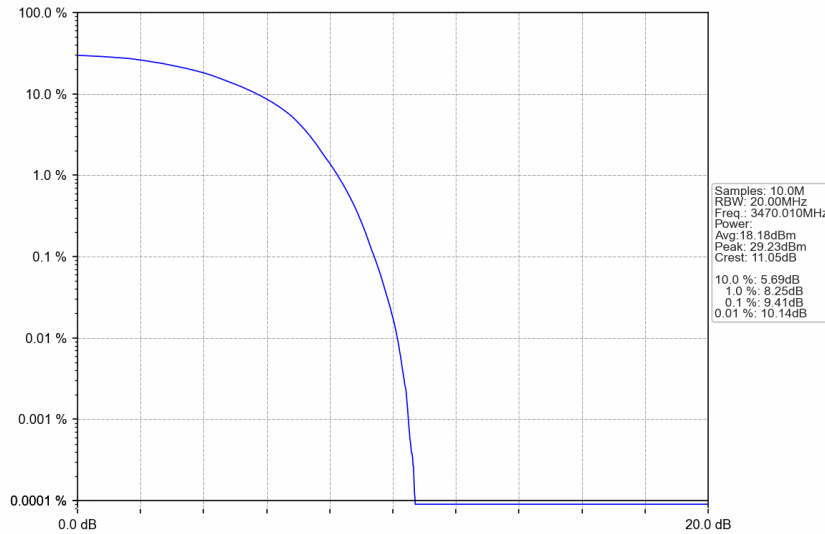
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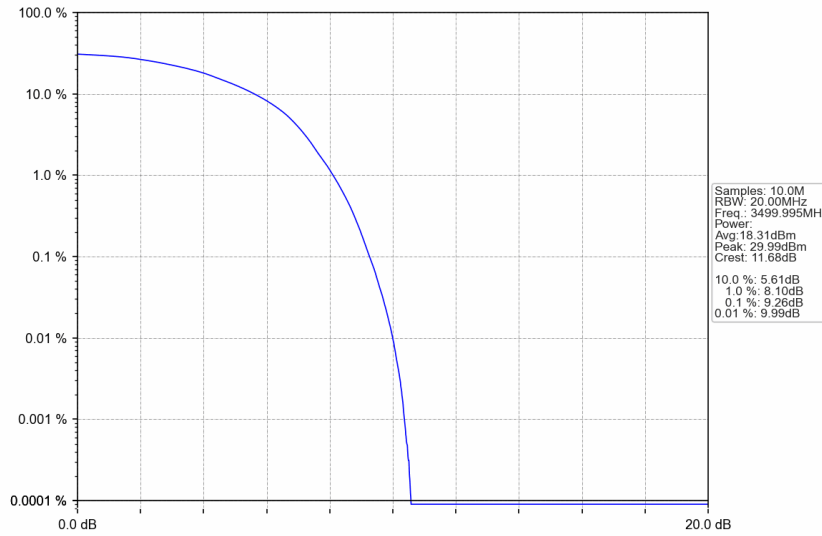
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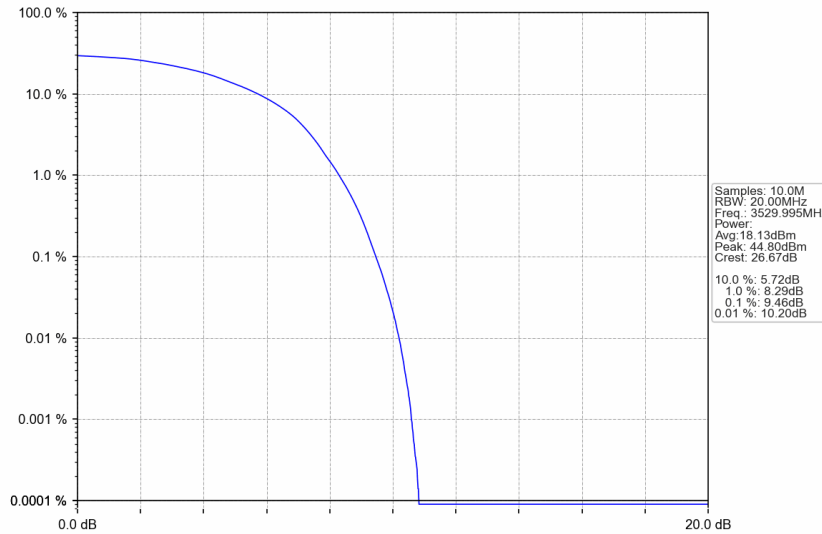
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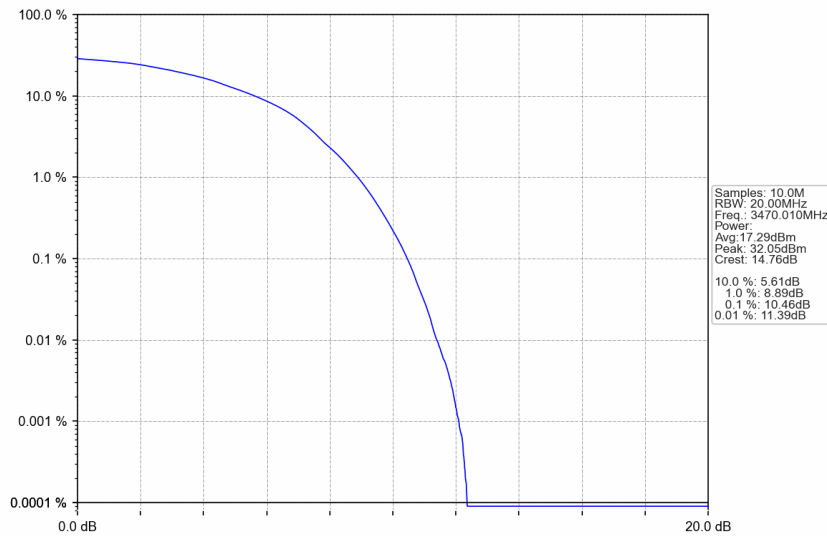


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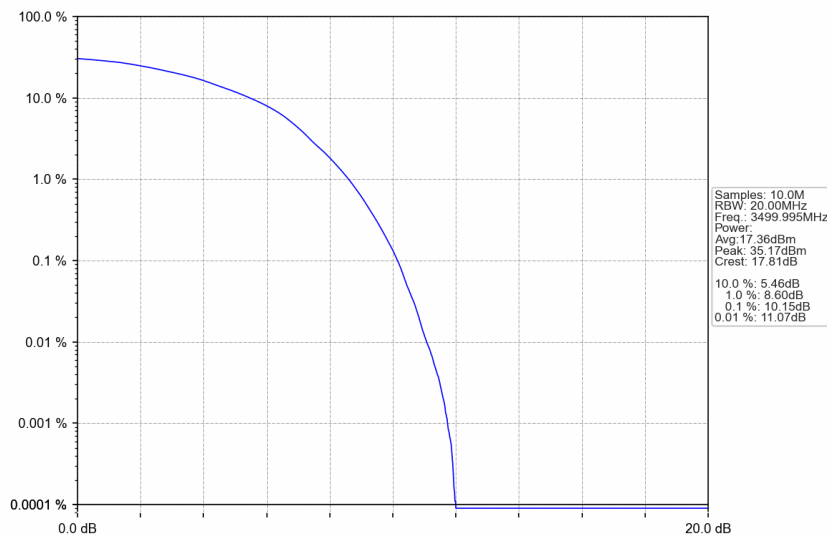
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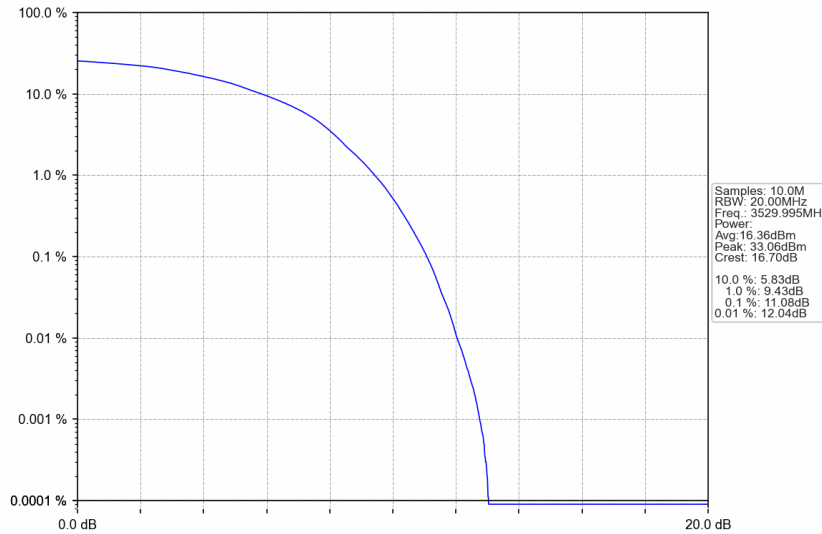
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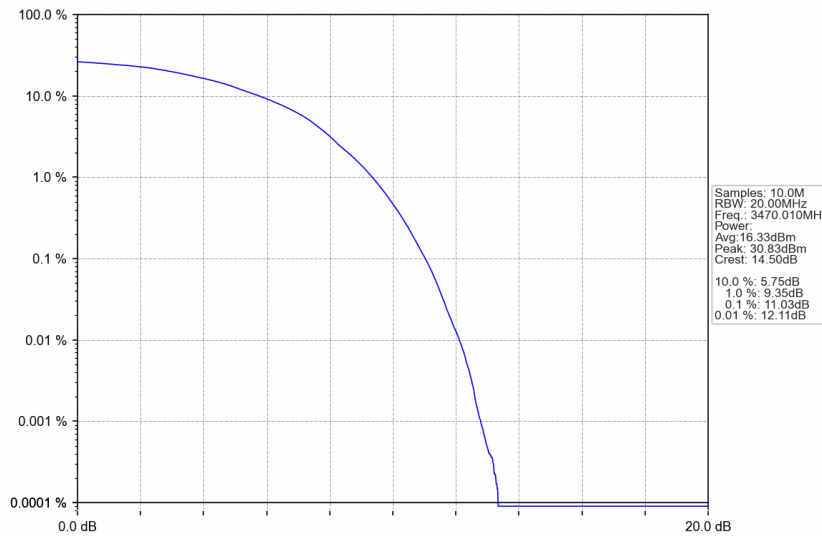
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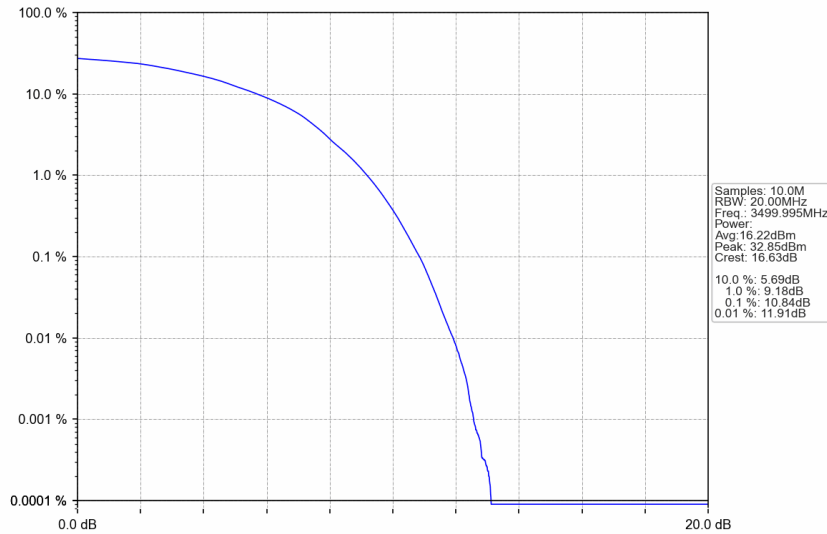
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Report No.: SEWM2311000456RG02

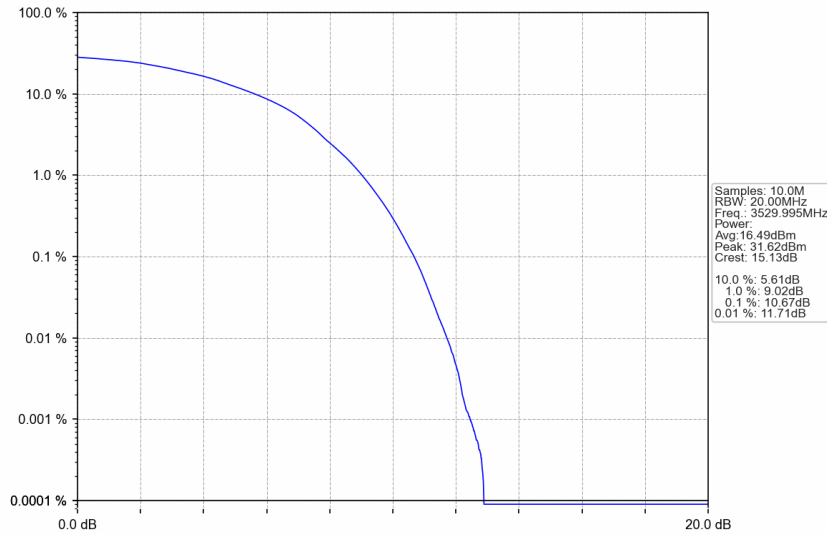
Rev.: 01

Page: 502 of 1237

n77d\_15kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM 64 QAM\_3499.995MHz\_Outer\_Full



n77d\_15kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM 64 QAM\_3529.995MHz\_Outer\_Full



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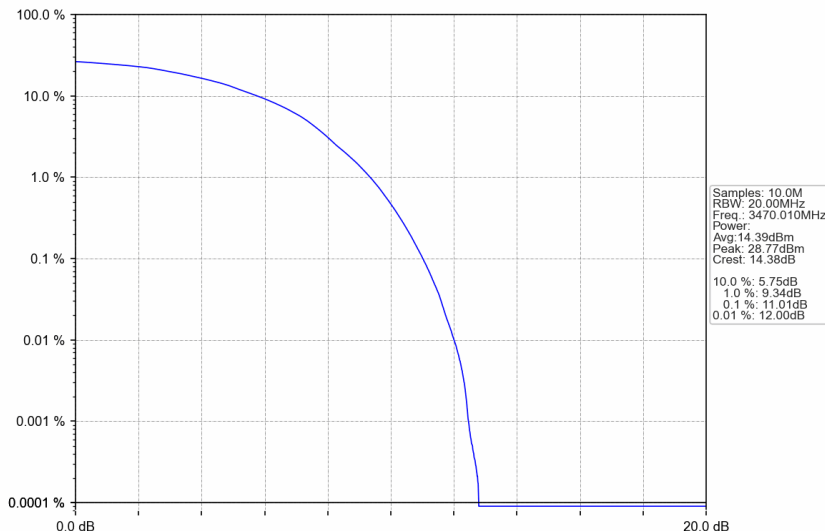
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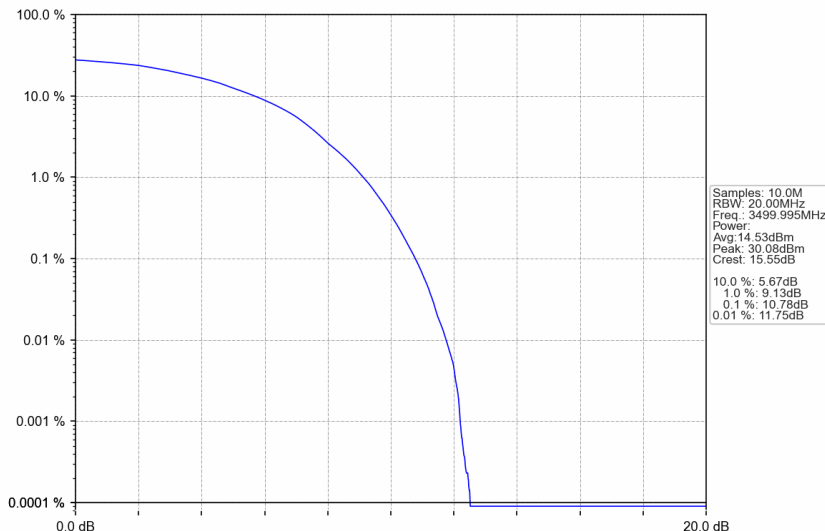
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n77d\_15kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM 256 QAM\_3470.01MHz\_Outer\_Full



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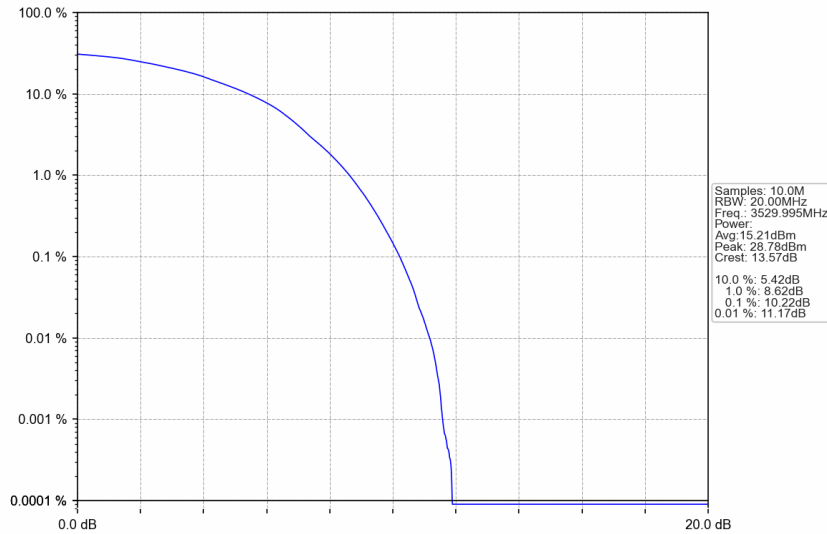
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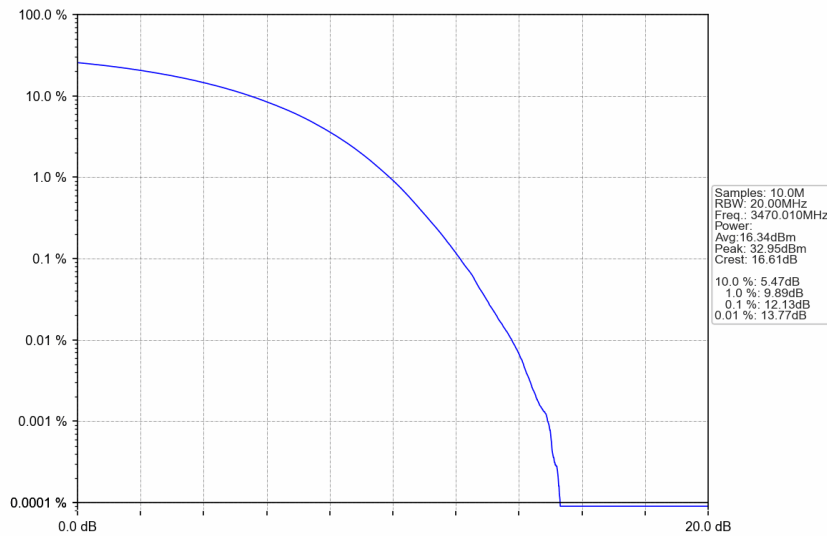
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n77d\_15kHz\_SISO\_NTNV\_40MHz\_DFT-s-OFDM 256 QAM\_3529.995MHz\_Outer\_Full



n77d\_15kHz\_SISO\_NTNV\_40MHz\_CP-OFDM QPSK\_3470.01MHz\_Outer\_Full



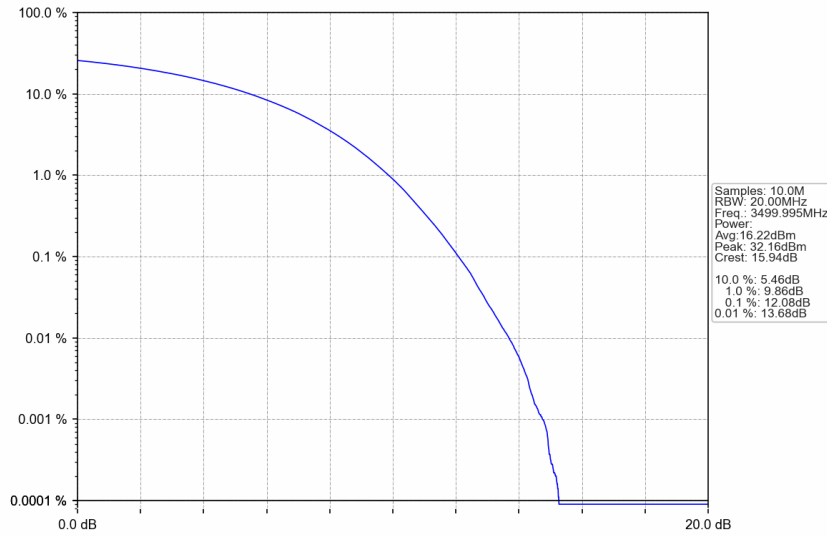
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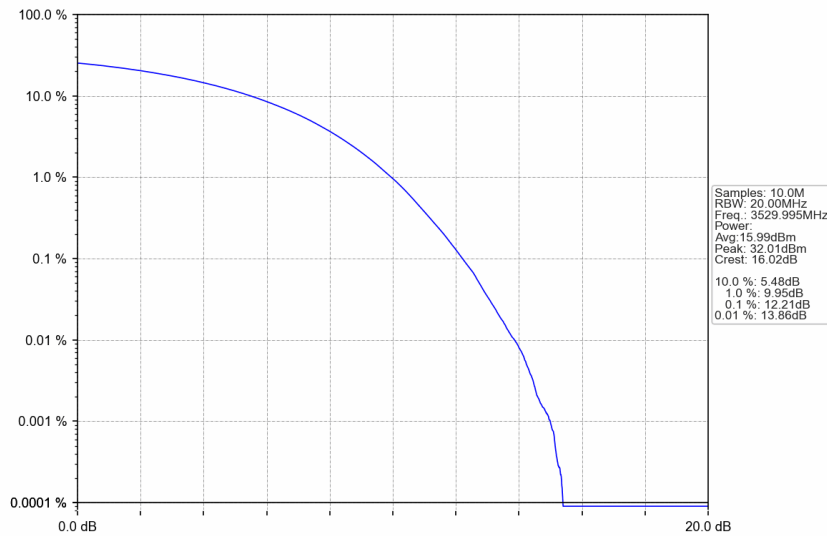
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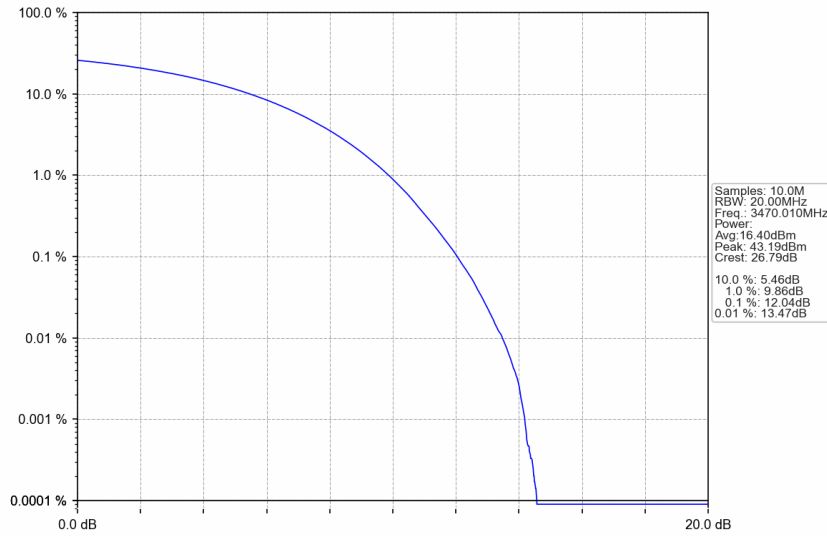


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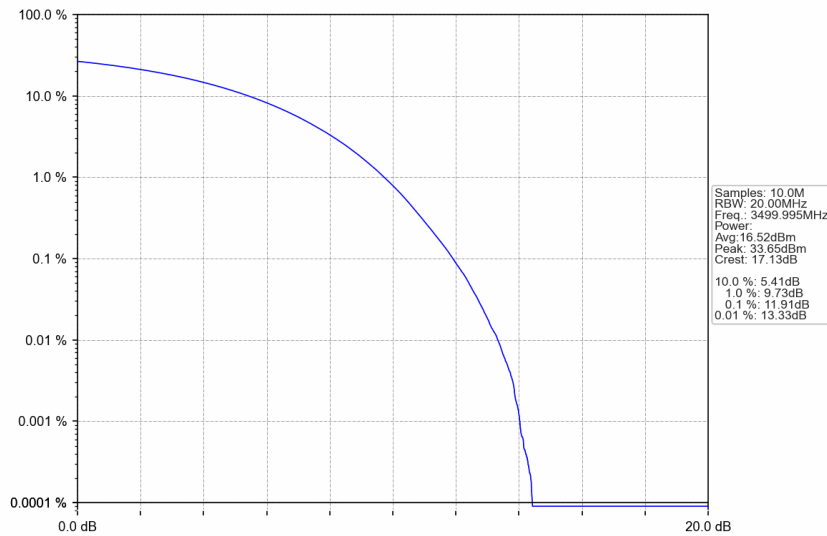
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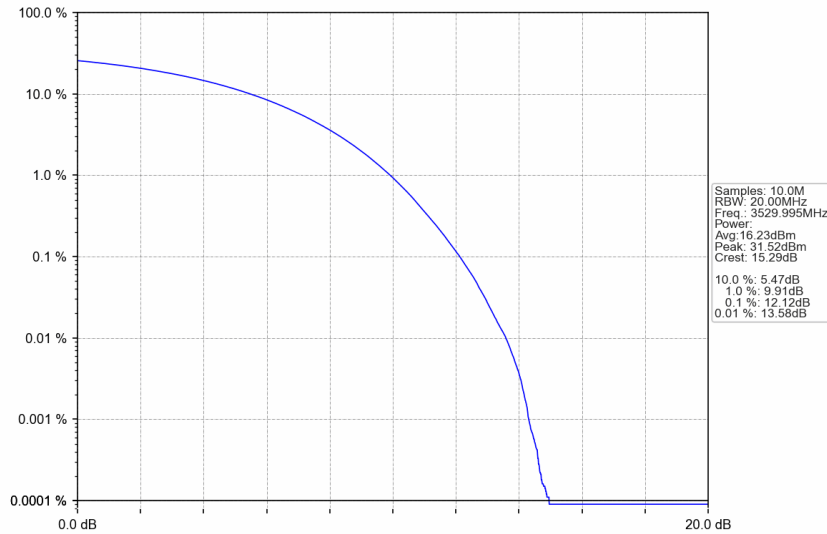


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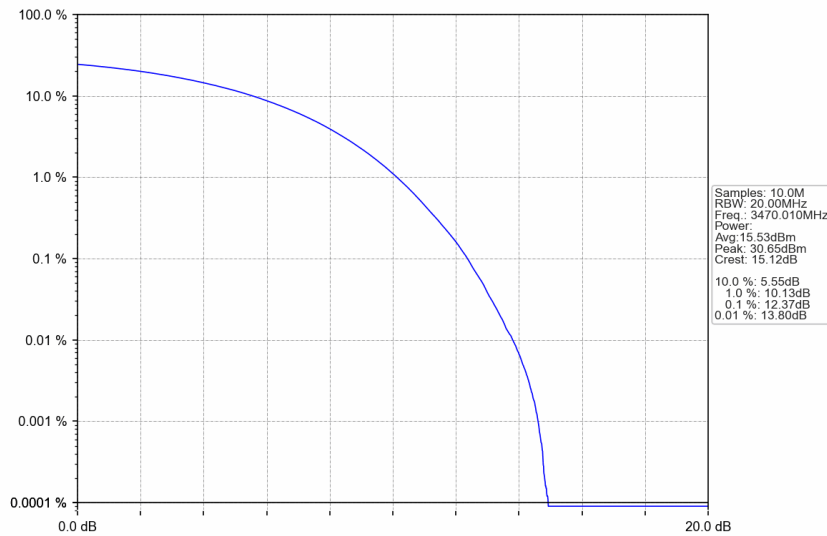
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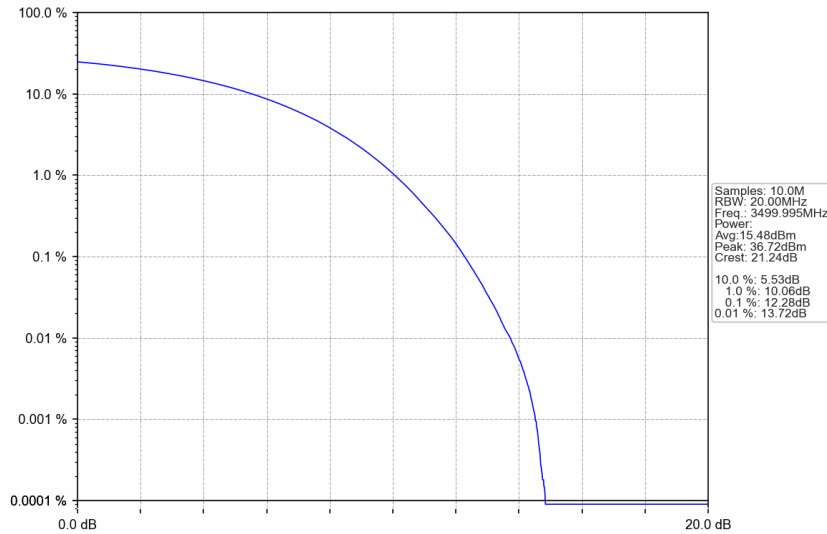
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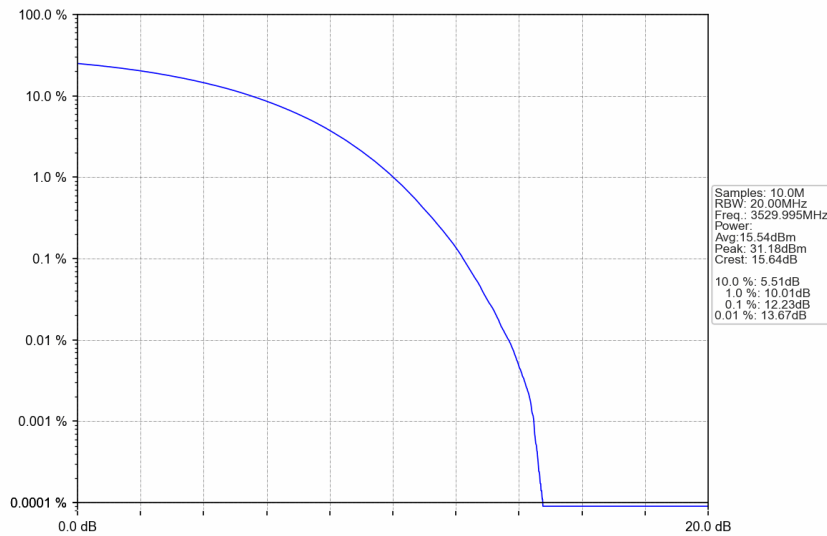
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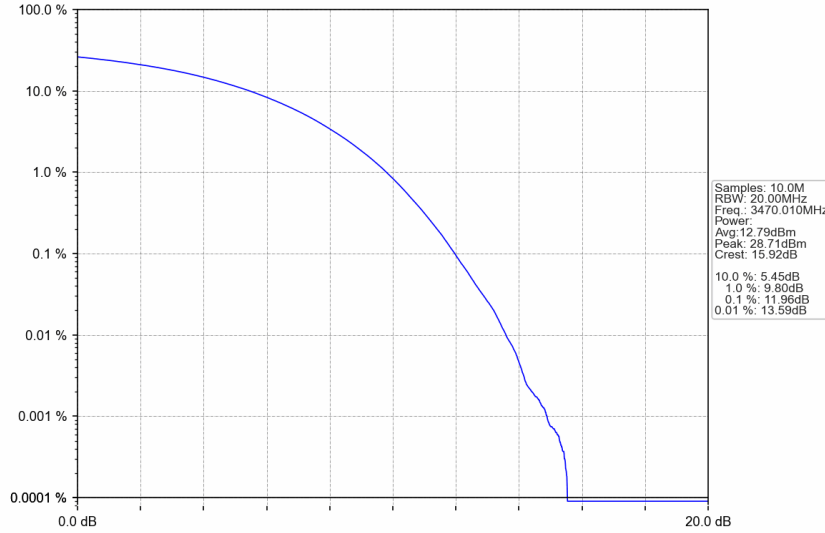


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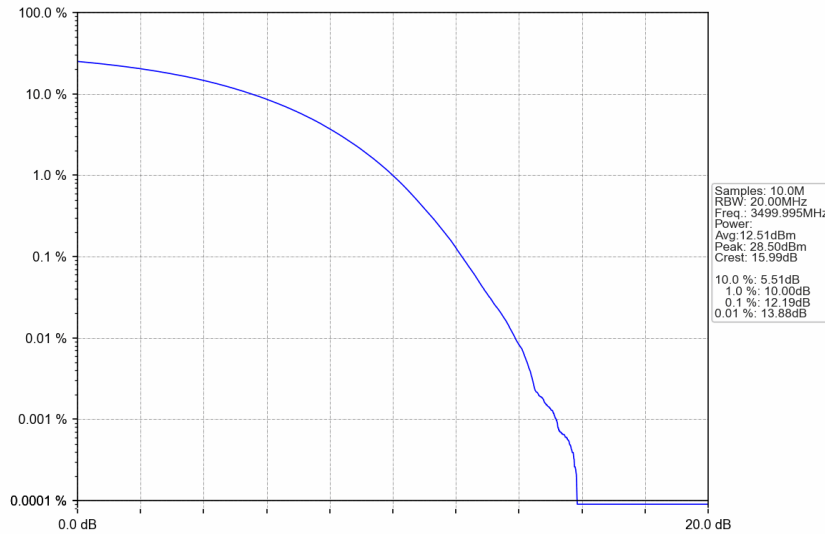
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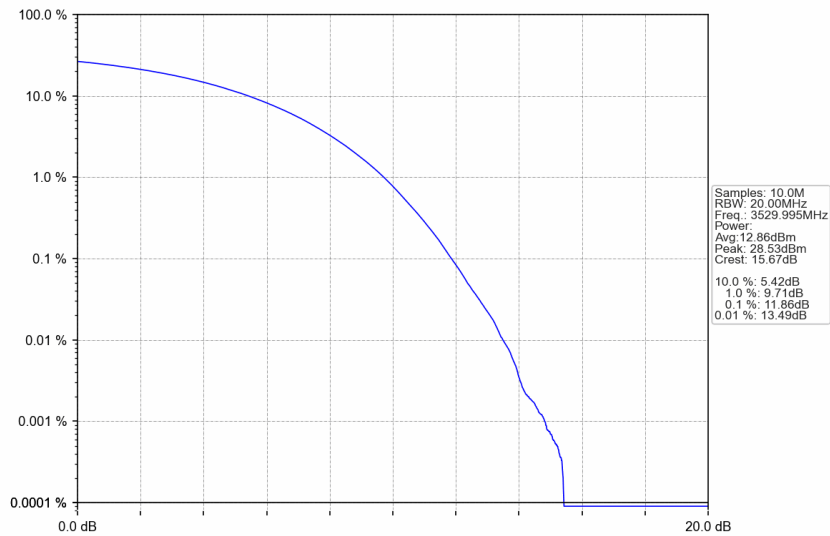
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5.7 15k\_SISO\_50MHz\_NTNV

5.7.1 Test Result

5G NR n77d SCS=15kHz SISO 50MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant5	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3475.005	Outer_Full	8.65	/	/	<=13	Pass
	3499.995	Outer_Full	8.67	/	/	<=13	Pass
	3525	Outer_Full	8.61	/	/	<=13	Pass
DFT-s-OFDM QPSK	3475.005	Outer_Full	9.91	/	/	<=13	Pass
	3499.995	Outer_Full	10.04	/	/	<=13	Pass
	3525	Outer_Full	9.94	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3475.005	Outer_Full	11.08	/	/	<=13	Pass
	3499.995	Outer_Full	11.03	/	/	<=13	Pass
	3525	Outer_Full	11.06	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3475.005	Outer_Full	10.91	/	/	<=13	Pass
	3499.995	Outer_Full	11.33	/	/	<=13	Pass
	3525	Outer_Full	11.14	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3475.005	Outer_Full	11.06	/	/	<=13	Pass
	3499.995	Outer_Full	11.11	/	/	<=13	Pass
	3525	Outer_Full	10.66	/	/	<=13	Pass
CP-OFDM QPSK	3475.005	Outer_Full	12.14	/	/	<=13	Pass
	3499.995	Outer_Full	12.25	/	/	<=13	Pass
	3525	Outer_Full	12.34	/	/	<=13	Pass
CP-OFDM 16 QAM	3475.005	Outer_Full	12.12	/	/	<=13	Pass
	3499.995	Outer_Full	12.29	/	/	<=13	Pass
	3525	Outer_Full	12.00	/	/	<=13	Pass
CP-OFDM 64 QAM	3475.005	Outer_Full	11.91	/	/	<=13	Pass
	3499.995	Outer_Full	12.25	/	/	<=13	Pass
	3525	Outer_Full	12.19	/	/	<=13	Pass
CP-OFDM 256 QAM	3475.005	Outer_Full	12.19	/	/	<=13	Pass
	3499.995	Outer_Full	12.09	/	/	<=13	Pass
	3525	Outer_Full	12.07	/	/	<=13	Pass



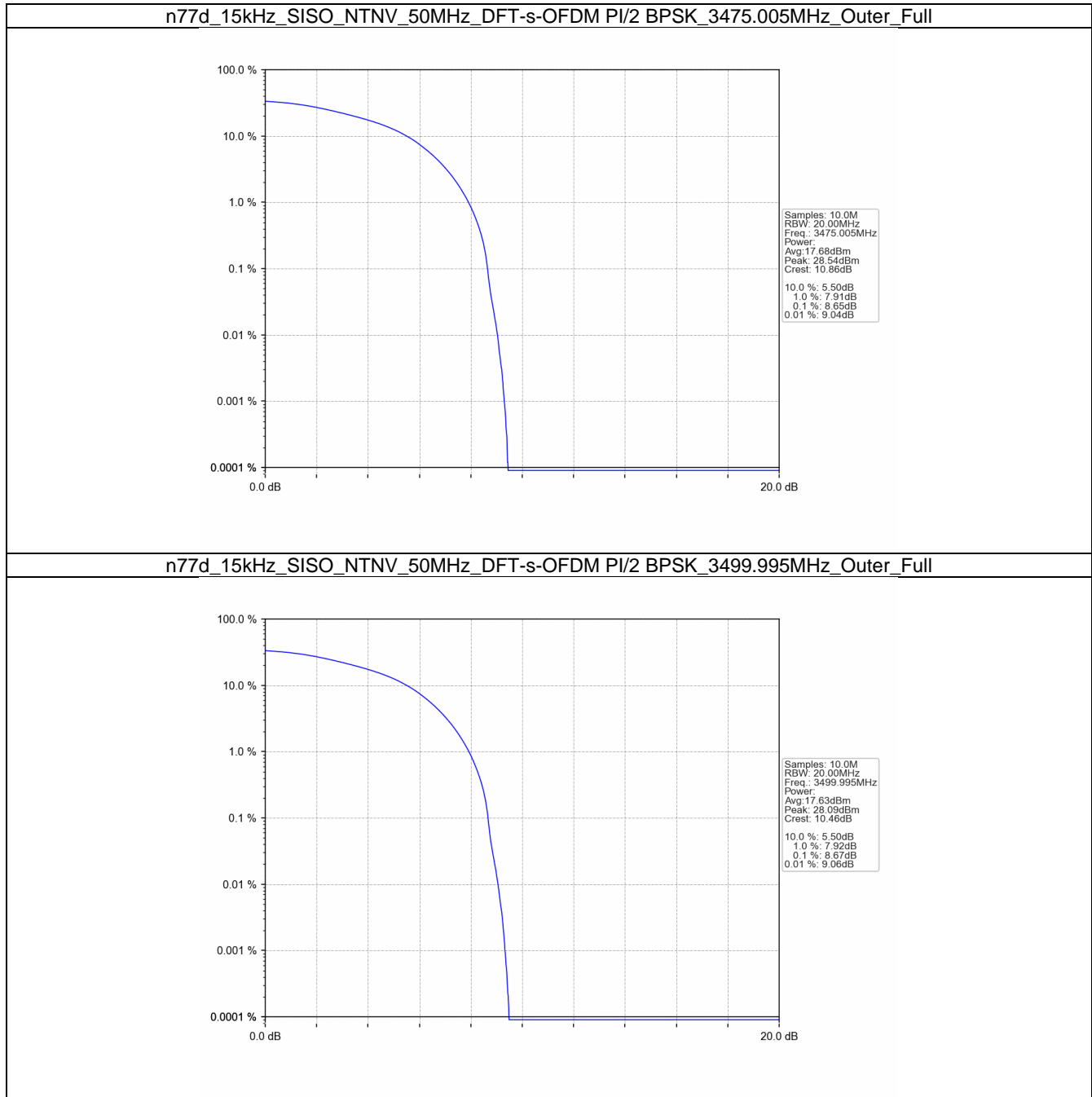
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5.7.2 Test Graph

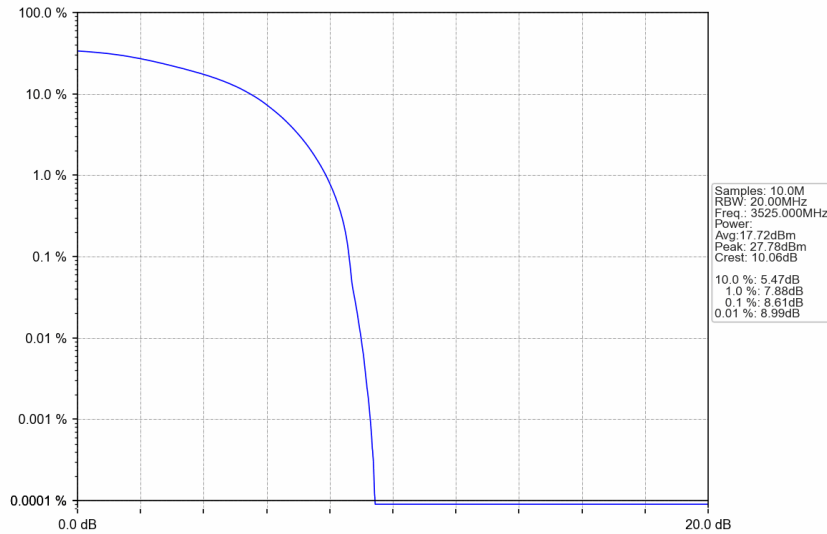


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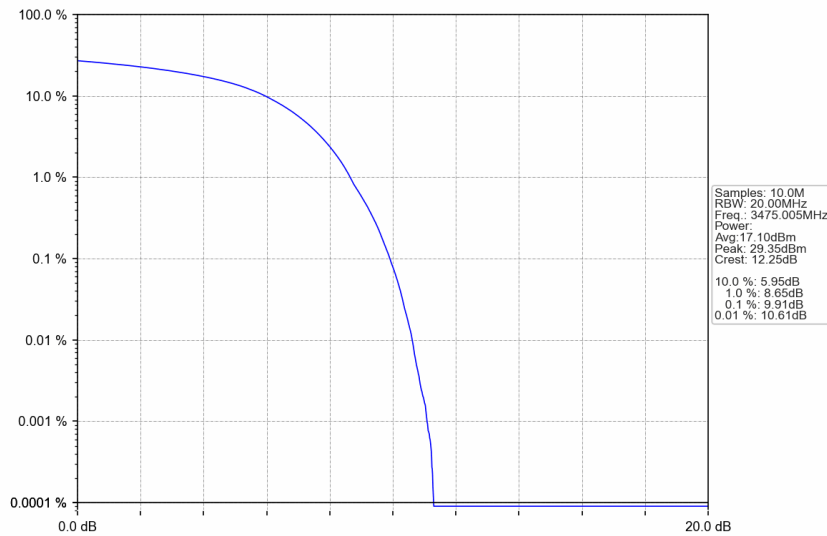
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n77d\_15kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM PI/2 BPSK\_3525MHz\_Outer\_Full



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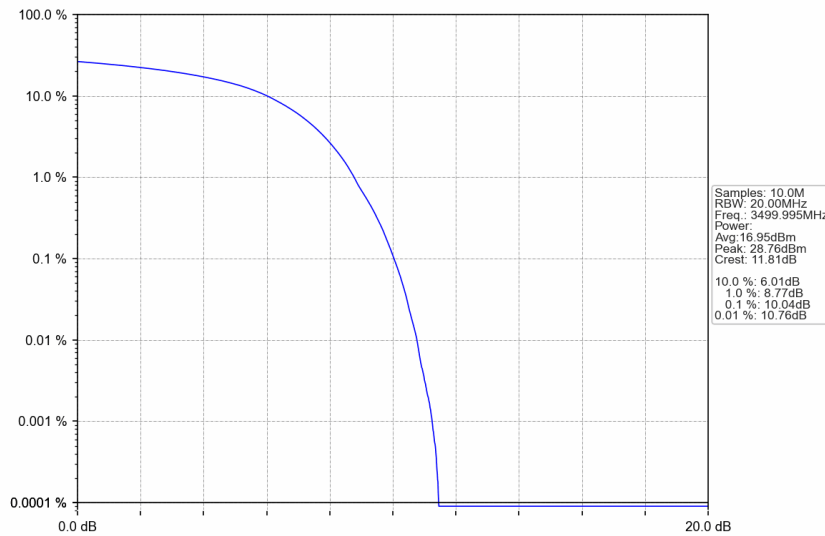
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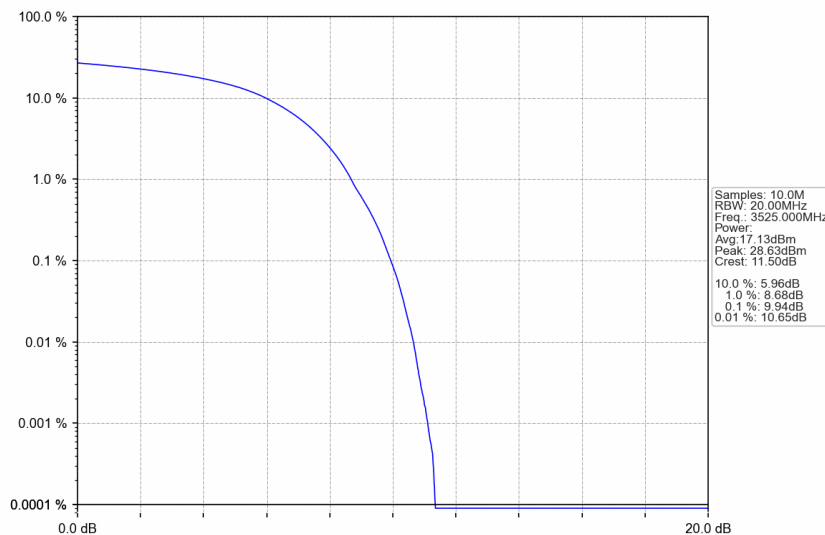
Rev.: 01

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n77d\_15kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM QPSK\_3499.995MHz\_Outer\_Full



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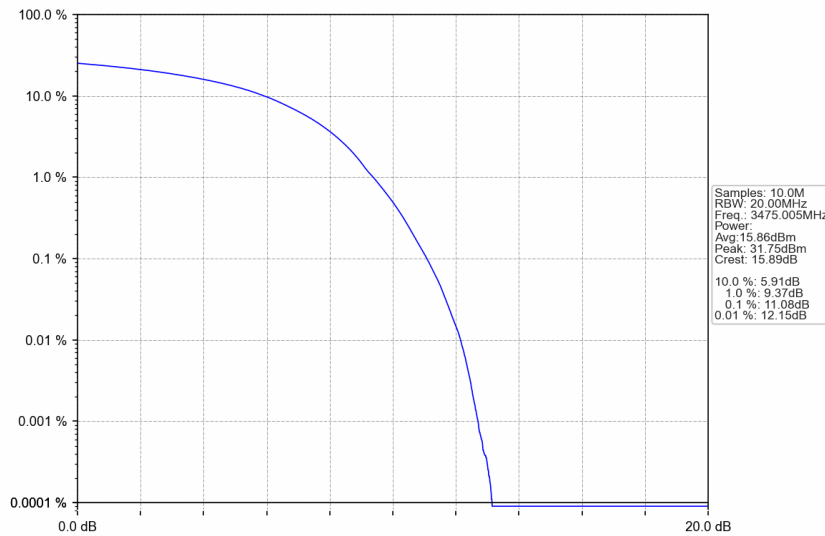
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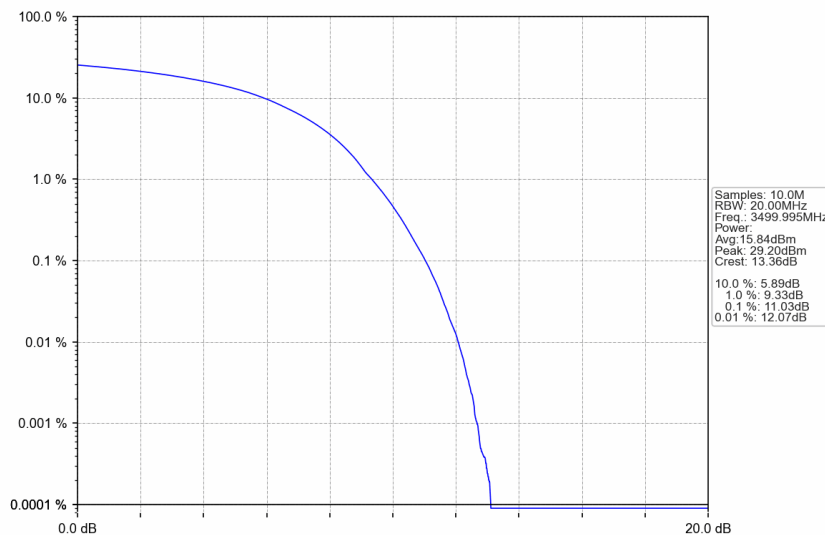
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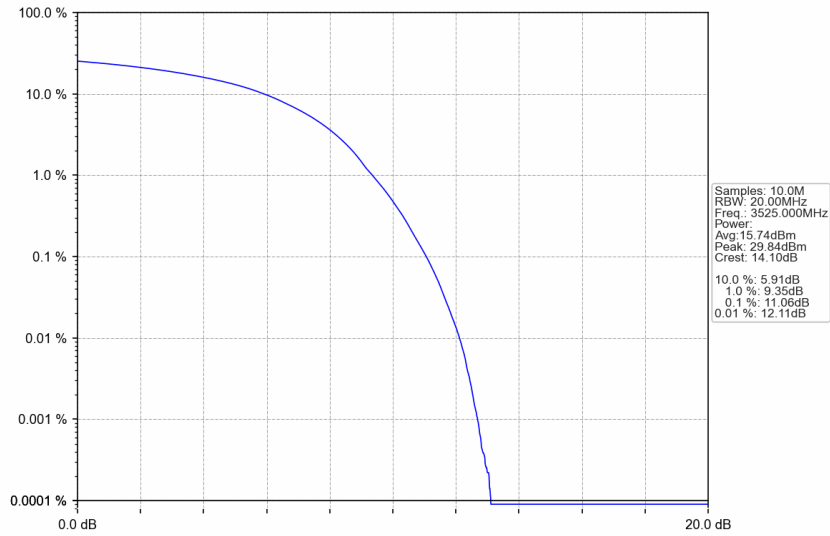
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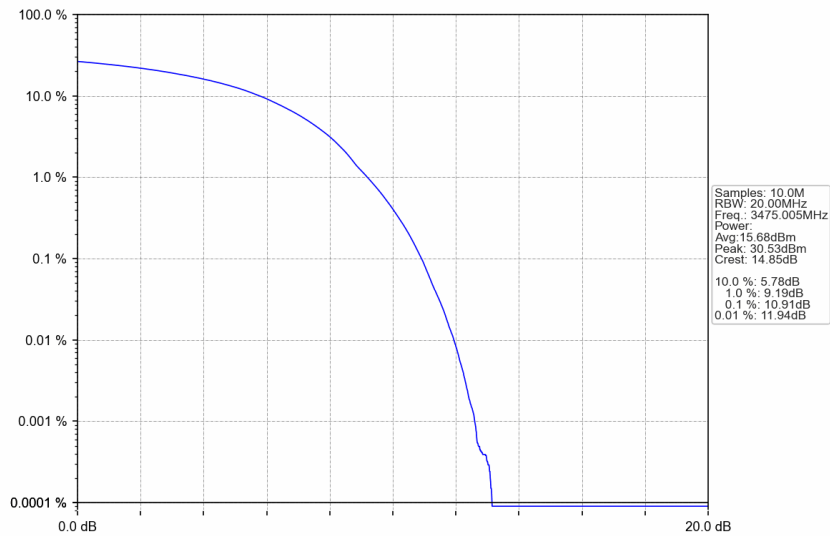
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n77d\_15kHz\_SISO\_NTNV\_50MHz\_DFT-s-OFDM 64 QAM\_3475.005MHz\_Outer\_Full

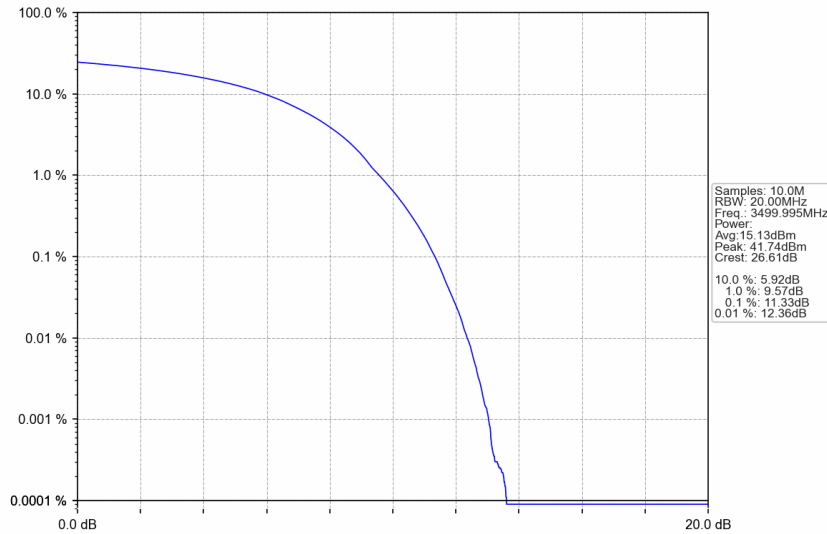


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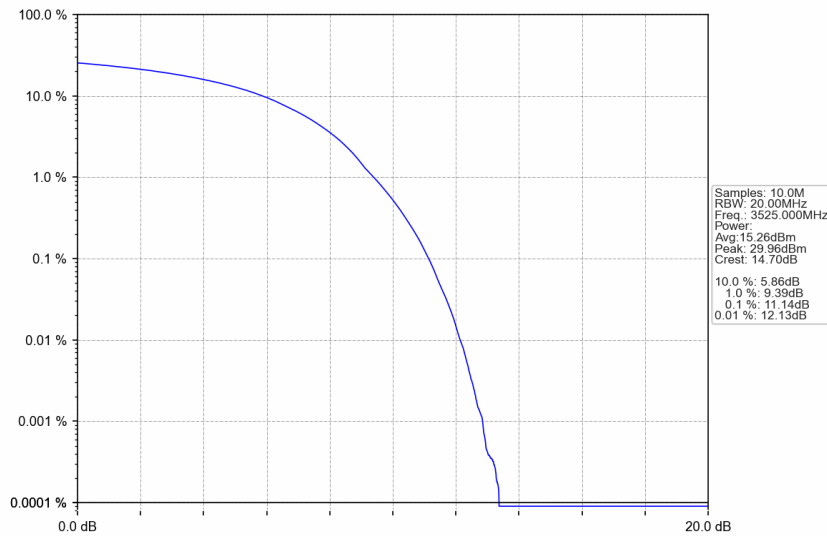
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