

Appendix for KSCR2207001267AT-FCC-NR-Peak-Average Ratio

1. n2 Peak-Average Ratio

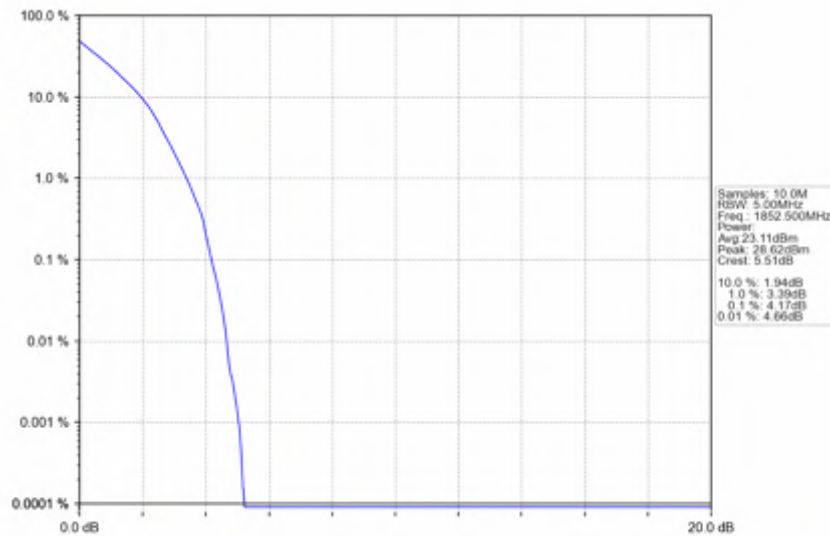
1.1 15k_SISO_5MHz_NTNV

1.1.1 Test Result

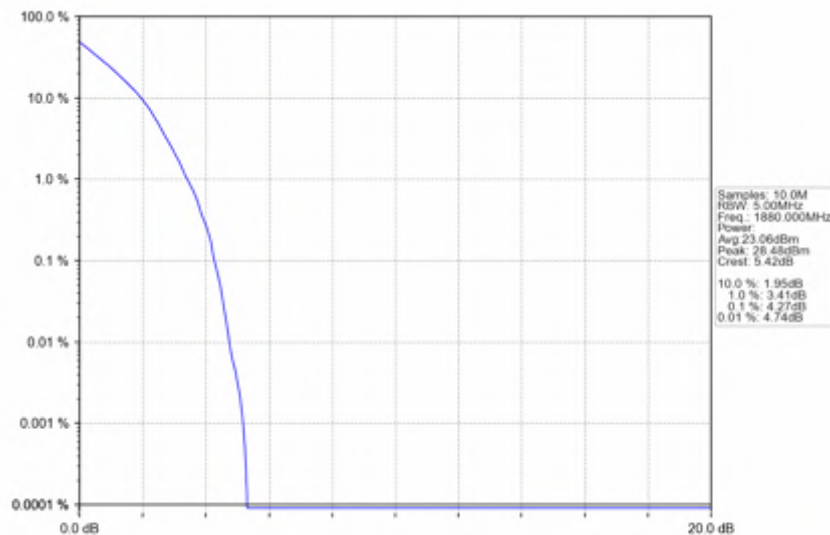
5G NR n2 SCS=15kHz SISO 5MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	1852.5	Outer_Full	4.17	/	/	<=13	Pass
	1880	Outer_Full	4.27	/	/	<=13	Pass
	1907.5	Outer_Full	4.23	/	/	<=13	Pass
DFT-s-OFDM QPSK	1852.5	Outer_Full	5.97	/	/	<=13	Pass
	1880	Outer_Full	5.77	/	/	<=13	Pass
	1907.5	Outer_Full	5.87	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1852.5	Outer_Full	6.85	/	/	<=13	Pass
	1880	Outer_Full	6.53	/	/	<=13	Pass
	1907.5	Outer_Full	6.70	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1852.5	Outer_Full	6.87	/	/	<=13	Pass
	1880	Outer_Full	6.68	/	/	<=13	Pass
	1907.5	Outer_Full	6.70	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1852.5	Outer_Full	7.12	/	/	<=13	Pass
	1880	Outer_Full	7.04	/	/	<=13	Pass
	1907.5	Outer_Full	7.03	/	/	<=13	Pass
CP-OFDM QPSK	1852.5	Outer_Full	8.38	/	/	<=13	Pass
	1880	Outer_Full	8.29	/	/	<=13	Pass
	1907.5	Outer_Full	8.24	/	/	<=13	Pass
CP-OFDM 16 QAM	1852.5	Outer_Full	8.50	/	/	<=13	Pass
	1880	Outer_Full	8.22	/	/	<=13	Pass
	1907.5	Outer_Full	8.19	/	/	<=13	Pass
CP-OFDM 64 QAM	1852.5	Outer_Full	8.50	/	/	<=13	Pass
	1880	Outer_Full	8.37	/	/	<=13	Pass
	1907.5	Outer_Full	8.39	/	/	<=13	Pass
CP-OFDM 256 QAM	1852.5	Outer_Full	8.87	/	/	<=13	Pass
	1880	Outer_Full	8.91	/	/	<=13	Pass
	1907.5	Outer_Full	8.82	/	/	<=13	Pass

1.1.2 Test Graph

n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_1852.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_1880MHz_Outer_Full



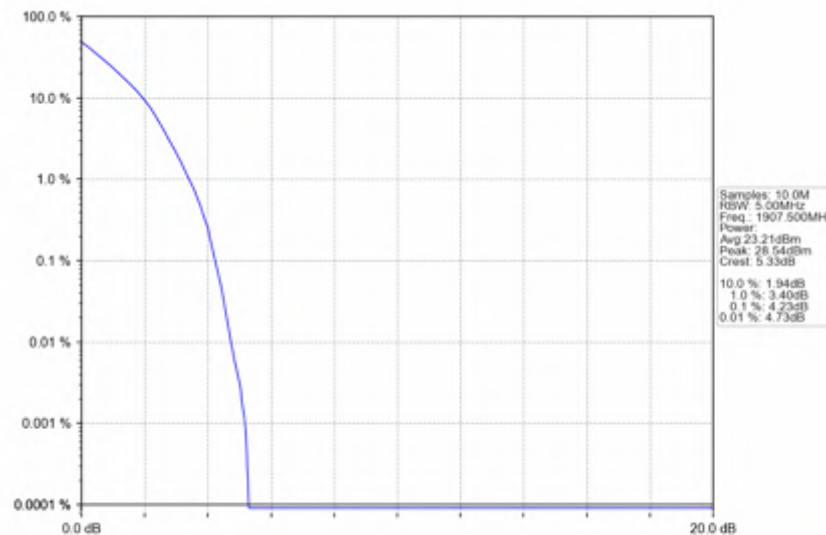
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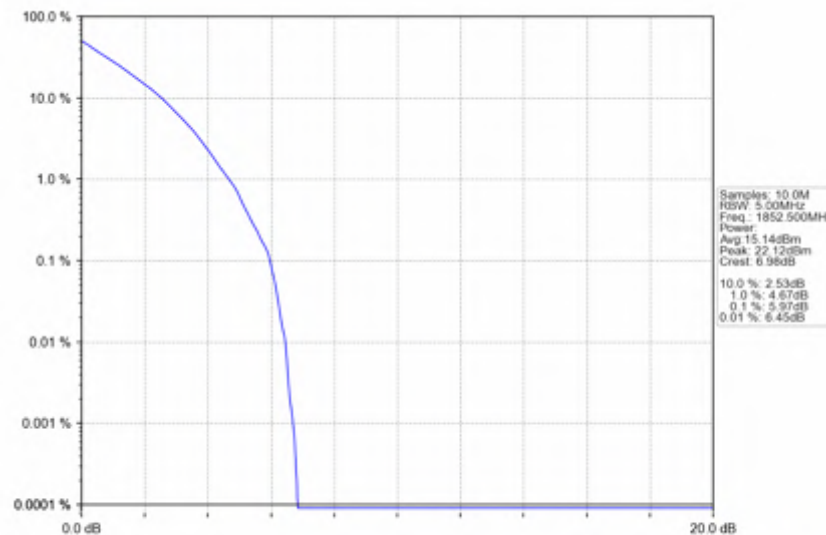
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n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_1907.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_1852.5MHz_Outer_Full



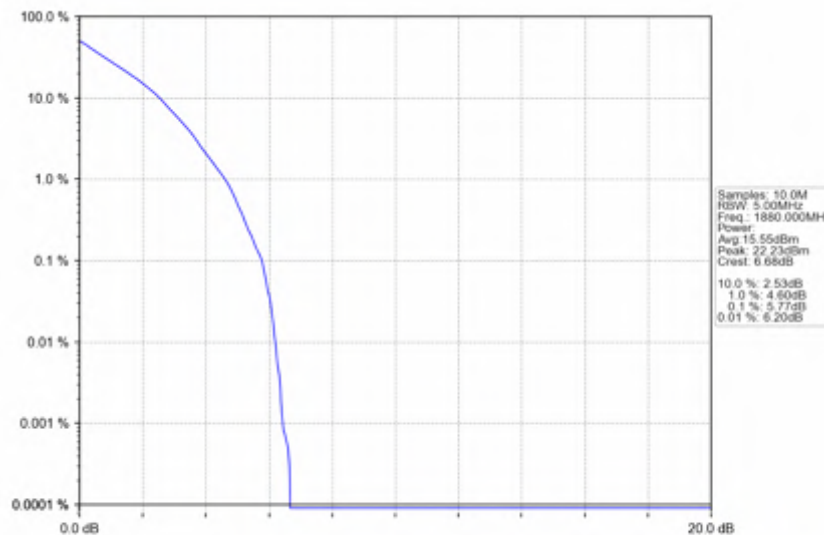
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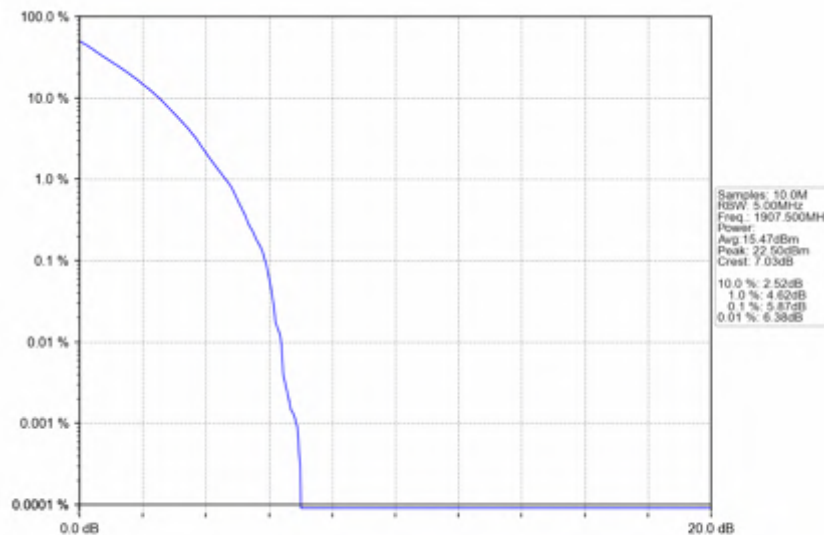
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n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_1880MHz_Outer_Full



n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_1907.5MHz_Outer_Full



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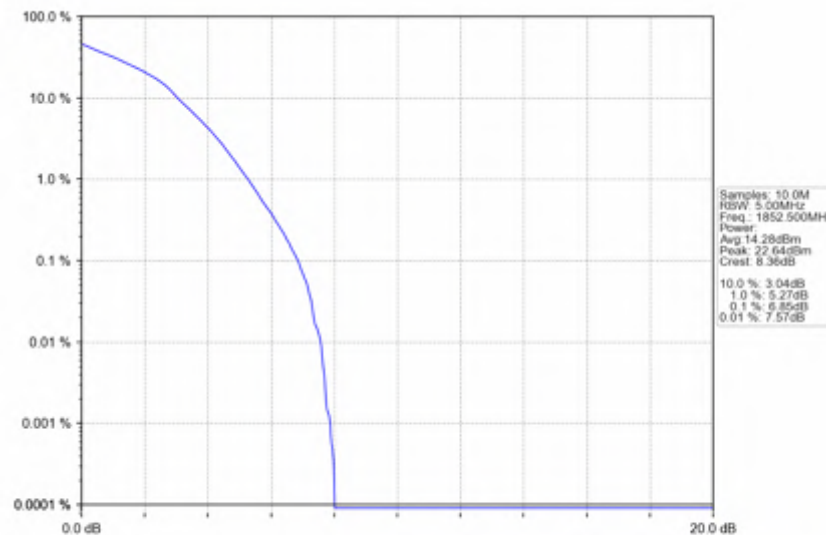
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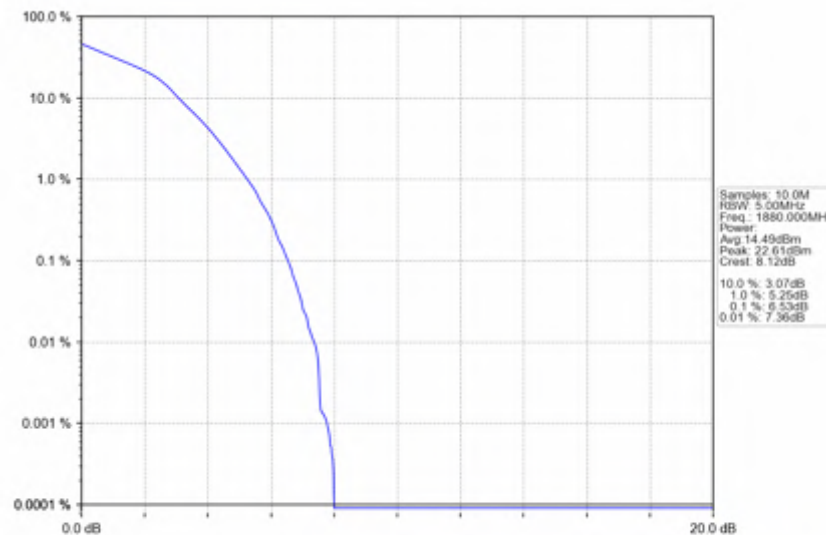
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n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_16_QAM_1852.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_16_QAM_1880MHz_Outer_Full



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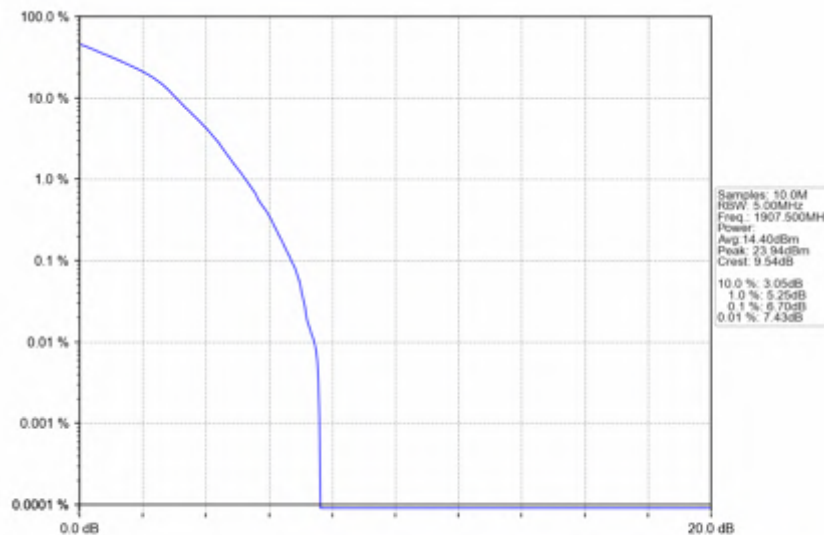
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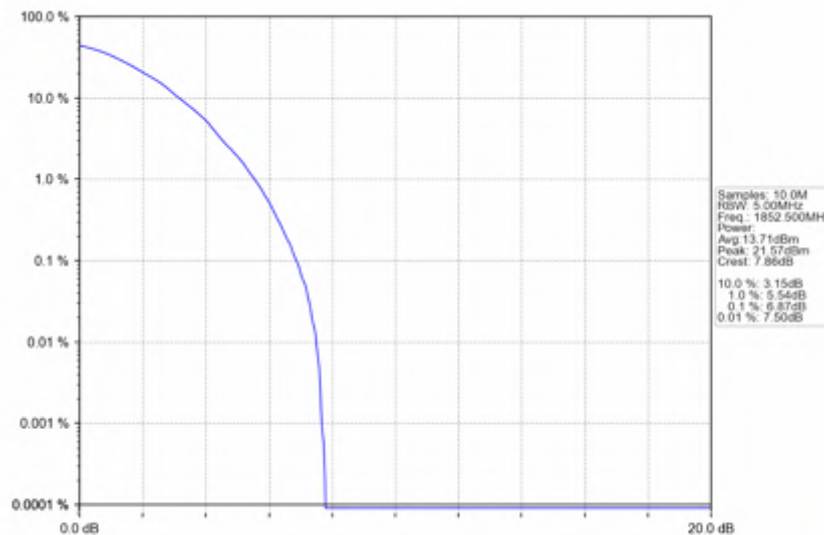
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n2_15kHz_SISO_NTV_5MHz_DFT-s-OFDM 16 QAM_1907.5MHz_Outer_Full



n2_15kHz_SISO_NTV_5MHz_DFT-s-OFDM 64 QAM_1852.5MHz_Outer_Full

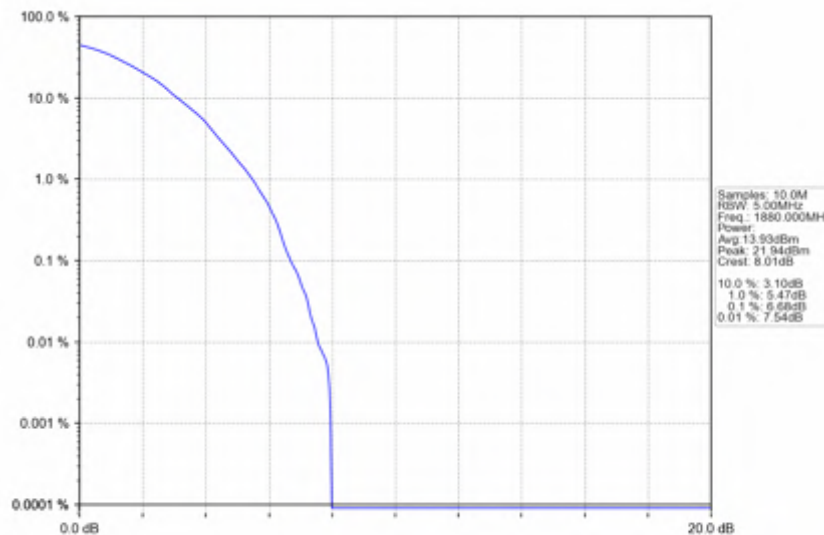


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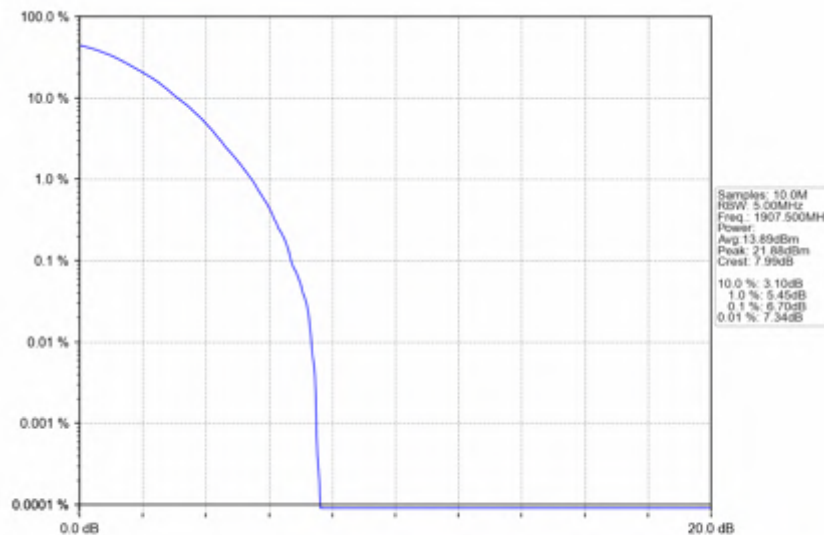
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n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_64_QAM_1907.5MHz_Outer_Full

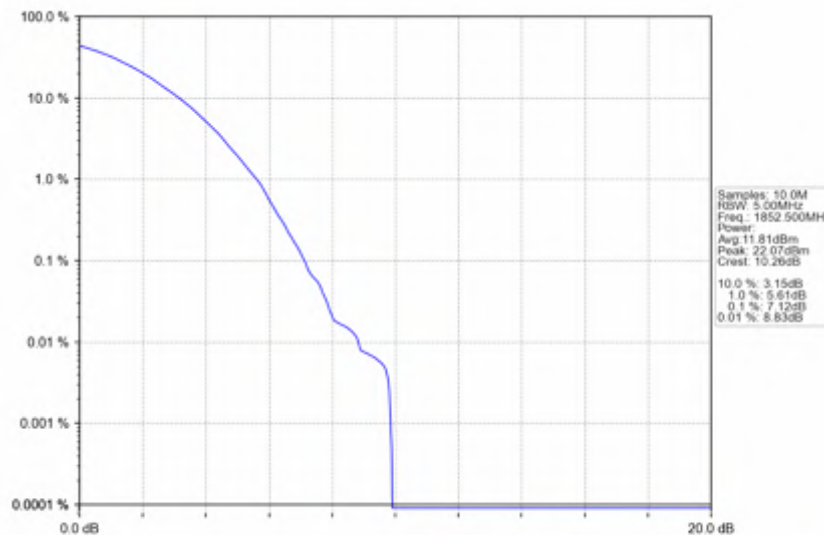


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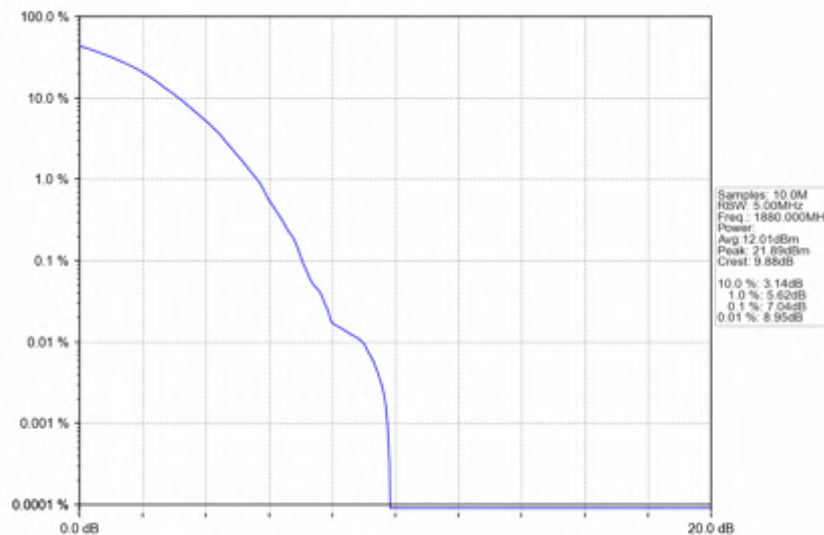
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n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_256_QAM_1880MHz_Outer_Full

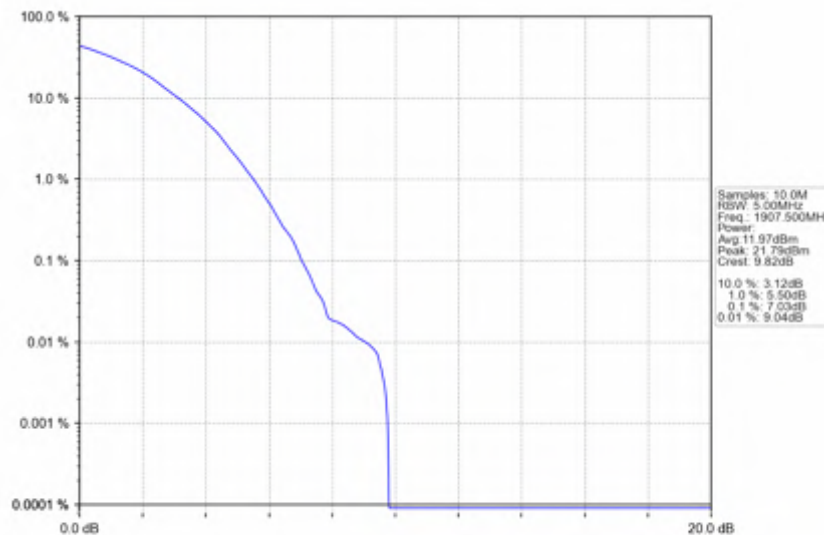


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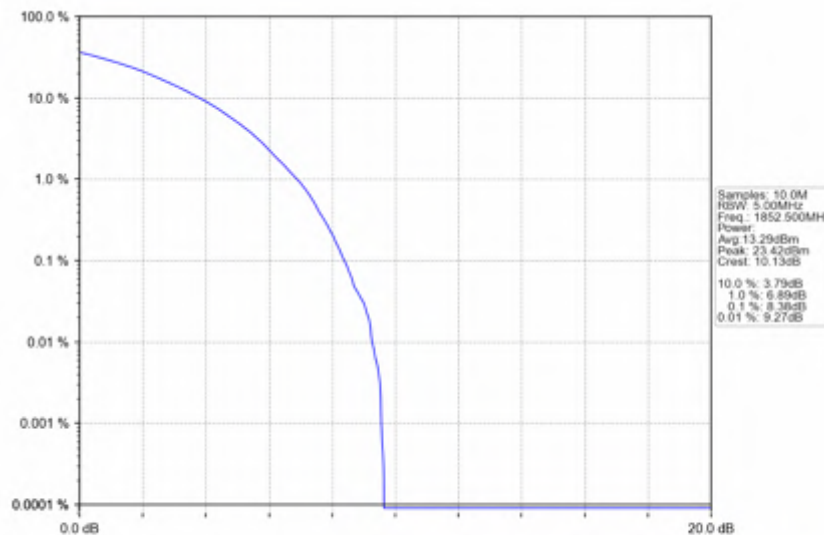
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n2_15kHz_SISO_NTNV_5MHz_CP-OFDM_QPSK_1852.5MHz_Outer_Full



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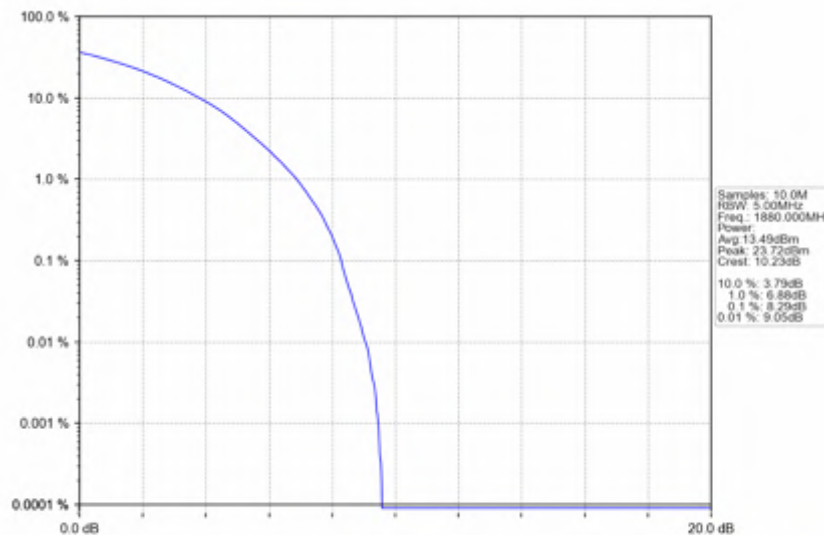
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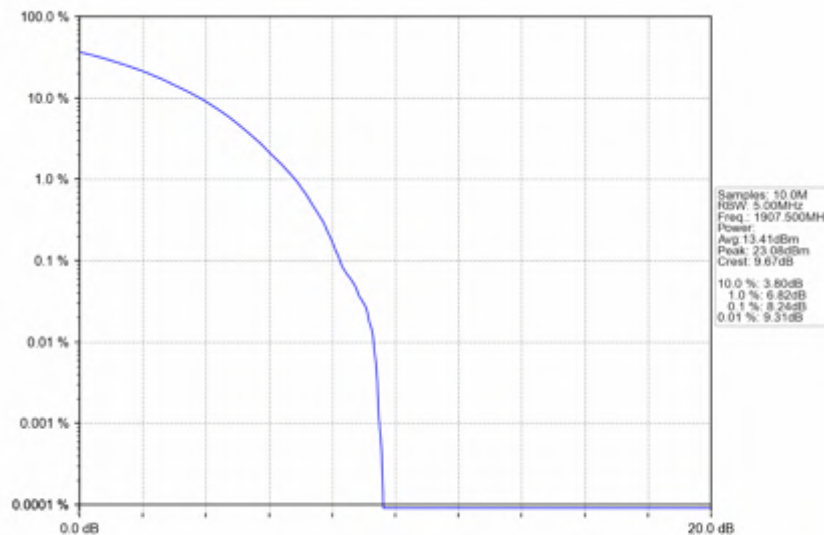
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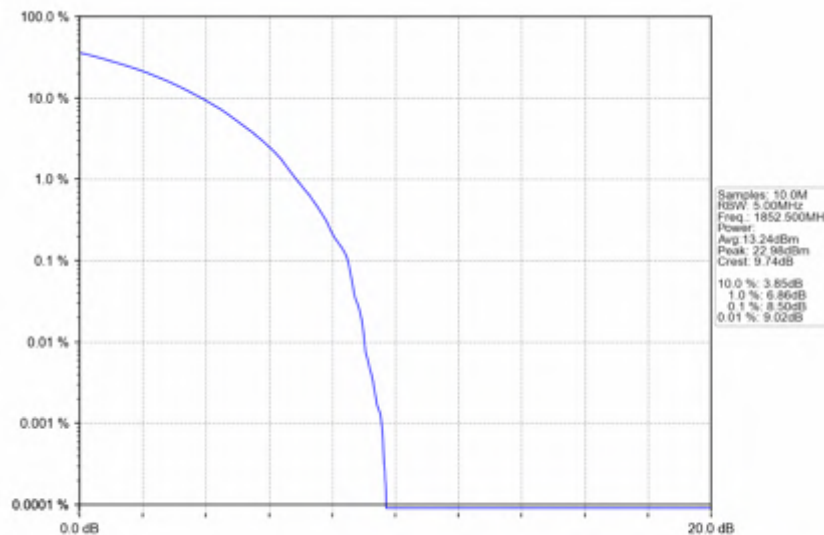


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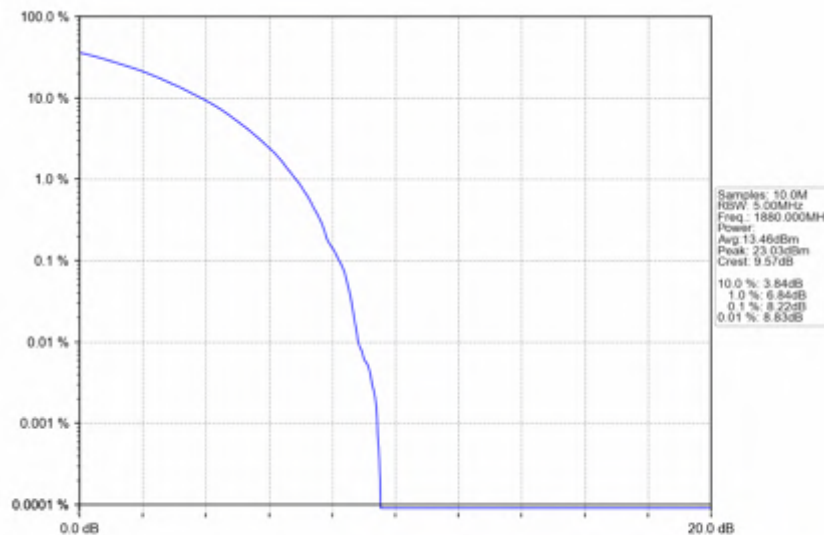
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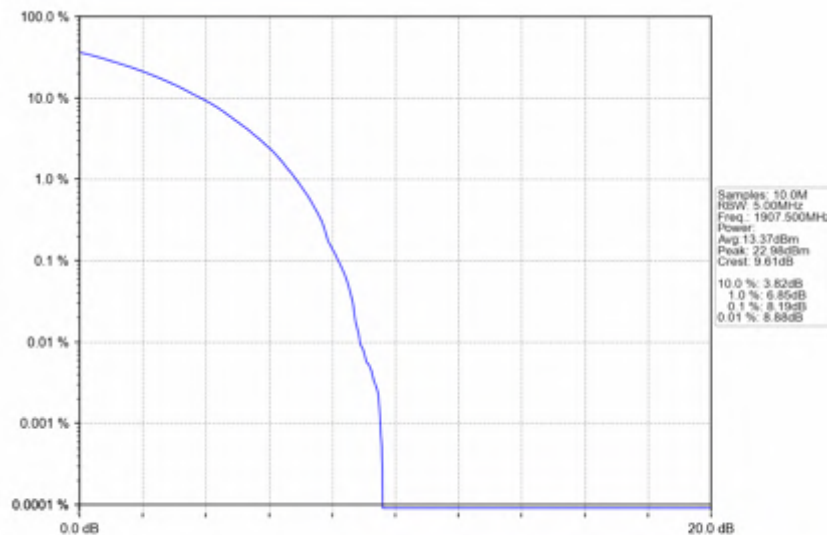
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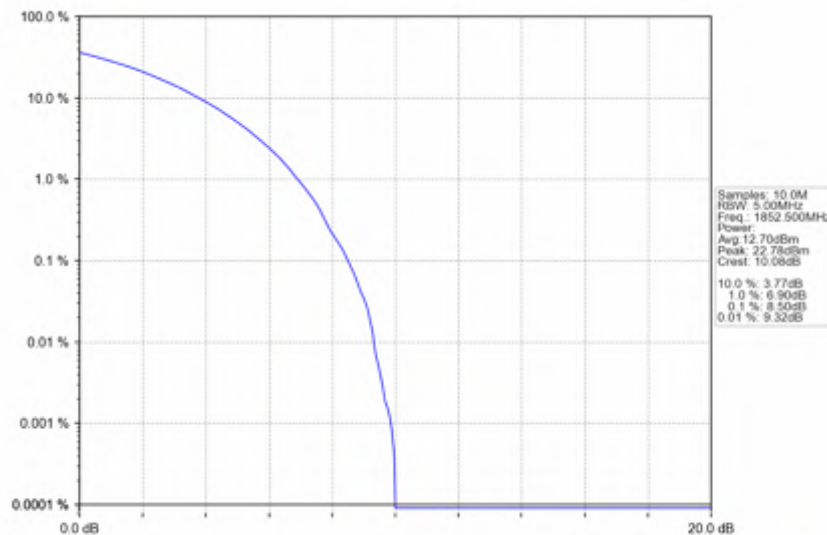
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n2_15kHz_SISO_NTNV_5MHz_CP-OFDM_64 QAM_1852.5MHz_Outer_Full



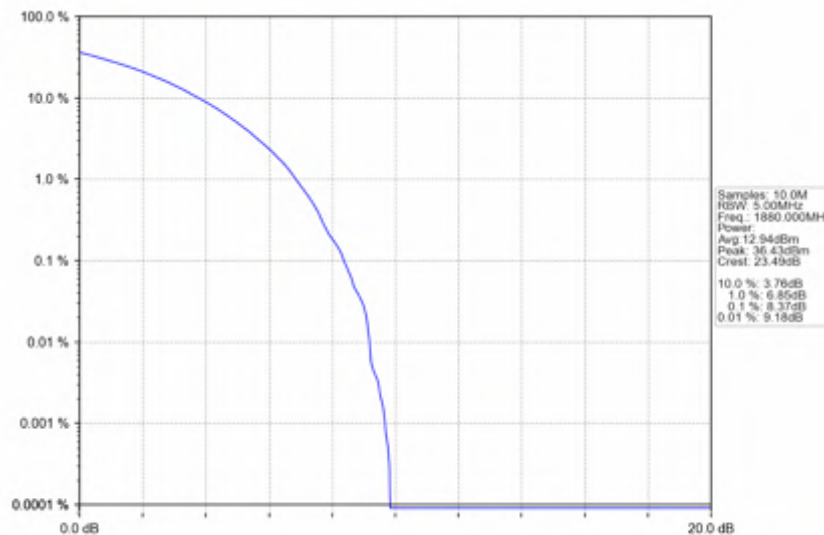
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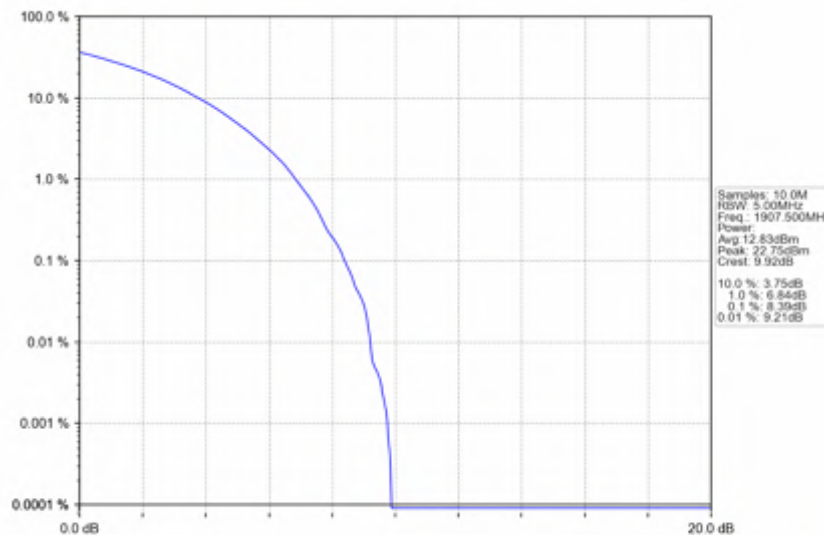
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n2_15kHz_SISO_NTNV_5MHz_CP-OFDM_64_QAM_1880MHz_Outer_Full



n2_15kHz_SISO_NTNV_5MHz_CP-OFDM_64_QAM_1907.5MHz_Outer_Full



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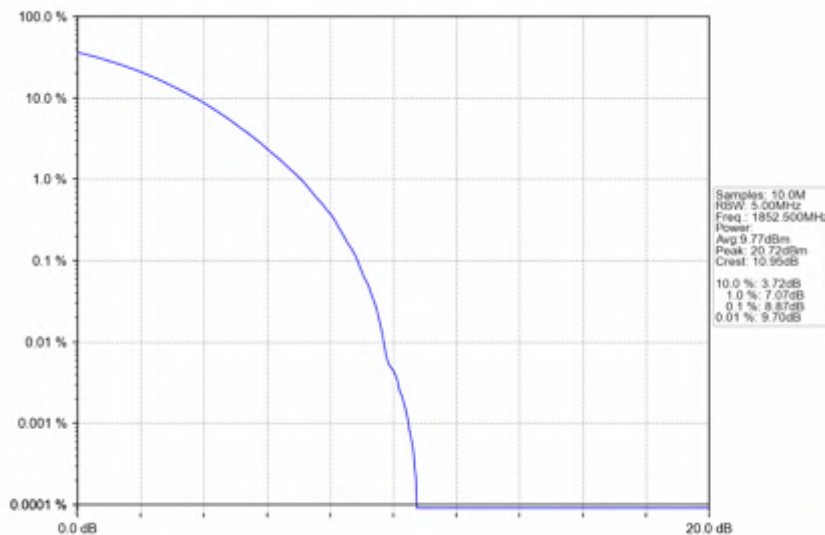
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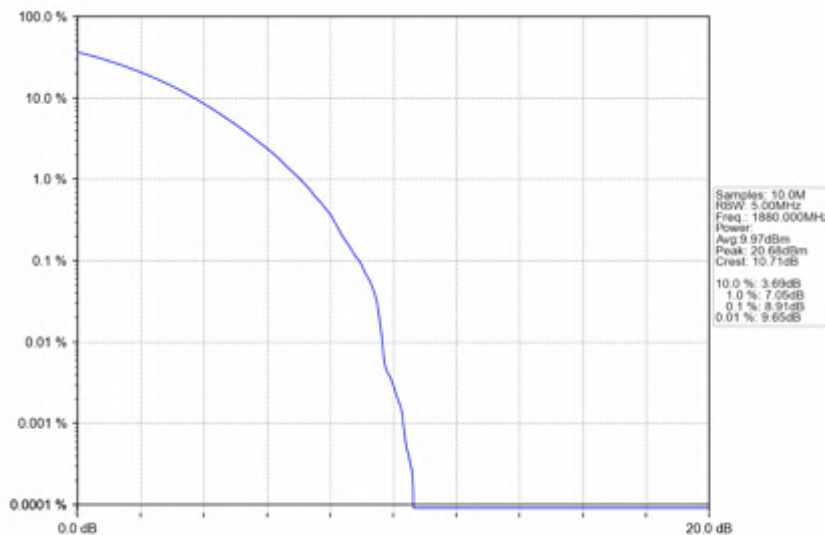
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n2_15kHz_SISO_NTNV_5MHz_CP-OFDM 256 QAM_1852.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_5MHz_CP-OFDM 256 QAM_1880MHz_Outer_Full



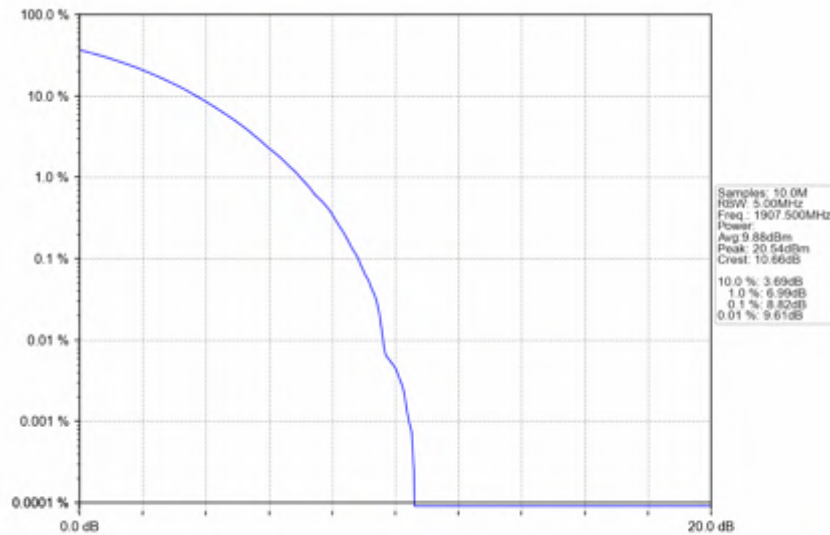
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n2_15kHz_SISO_NTNV_5MHz_CP-OFDM_256_QAM_1907.5MHz_Outer_Full



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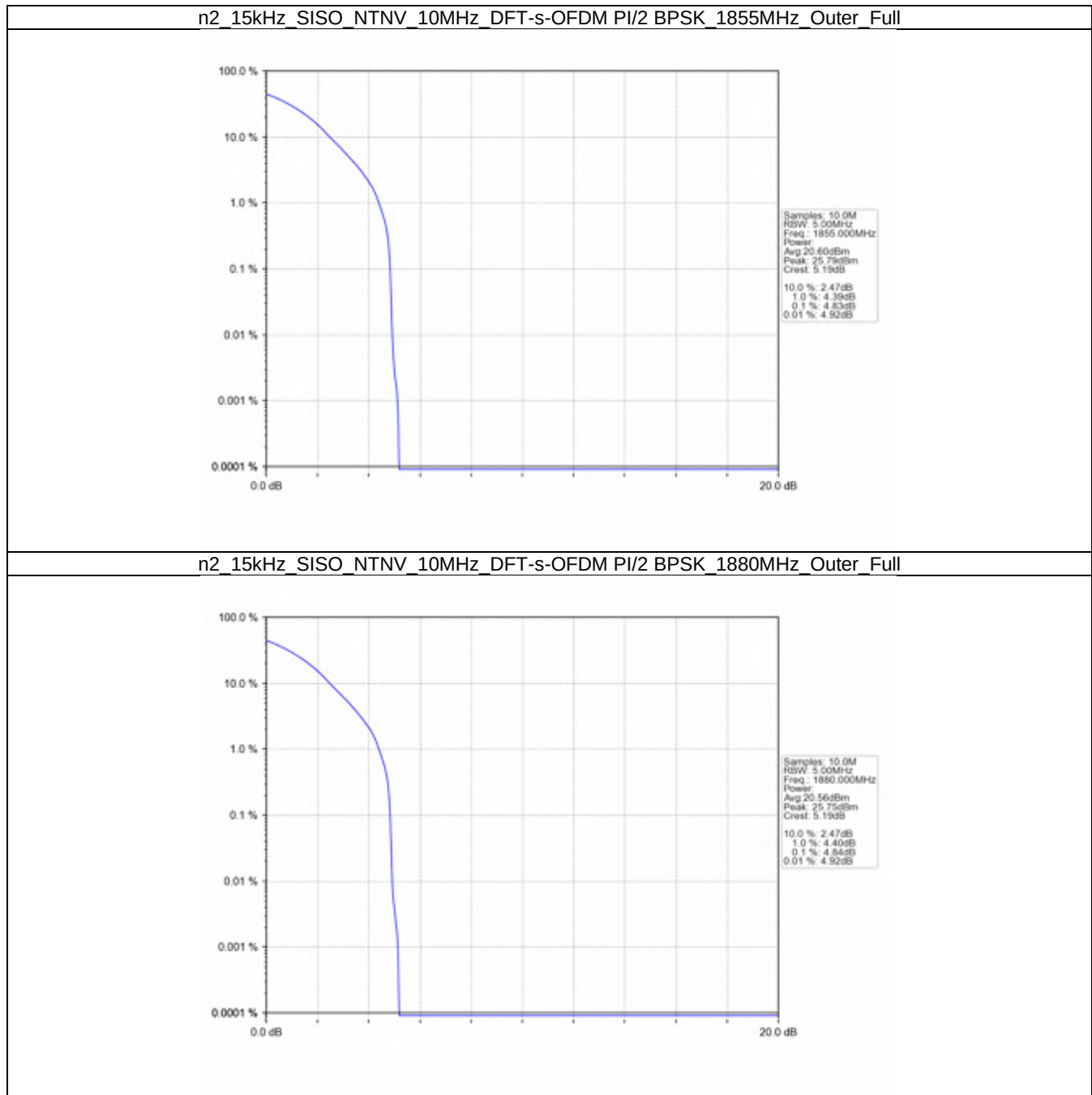
1.2 15k_SISO_10MHz_NTNV

1.2.1 Test Result

5G NR n2 SCS=15kHz SISO 10MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	1855	Outer_Full	4.83	/	/	<=13	Pass
	1880	Outer_Full	4.84	/	/	<=13	Pass
	1905	Outer_Full	4.82	/	/	<=13	Pass
DFT-s-OFDM QPSK	1855	Outer_Full	5.54	/	/	<=13	Pass
	1880	Outer_Full	5.53	/	/	<=13	Pass
	1905	Outer_Full	5.58	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1855	Outer_Full	6.76	/	/	<=13	Pass
	1880	Outer_Full	6.63	/	/	<=13	Pass
	1905	Outer_Full	6.74	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1855	Outer_Full	7.28	/	/	<=13	Pass
	1880	Outer_Full	6.82	/	/	<=13	Pass
	1905	Outer_Full	6.92	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1855	Outer_Full	7.07	/	/	<=13	Pass
	1880	Outer_Full	7.05	/	/	<=13	Pass
	1905	Outer_Full	7.09	/	/	<=13	Pass
CP-OFDM QPSK	1855	Outer_Full	8.49	/	/	<=13	Pass
	1880	Outer_Full	8.59	/	/	<=13	Pass
	1905	Outer_Full	8.36	/	/	<=13	Pass
CP-OFDM 16 QAM	1855	Outer_Full	8.63	/	/	<=13	Pass
	1880	Outer_Full	8.55	/	/	<=13	Pass
	1905	Outer_Full	8.52	/	/	<=13	Pass
CP-OFDM 64 QAM	1855	Outer_Full	8.42	/	/	<=13	Pass
	1880	Outer_Full	8.39	/	/	<=13	Pass
	1905	Outer_Full	8.42	/	/	<=13	Pass
CP-OFDM 256 QAM	1855	Outer_Full	8.52	/	/	<=13	Pass
	1880	Outer_Full	8.59	/	/	<=13	Pass
	1905	Outer_Full	8.57	/	/	<=13	Pass



1.2.2 Test Graph



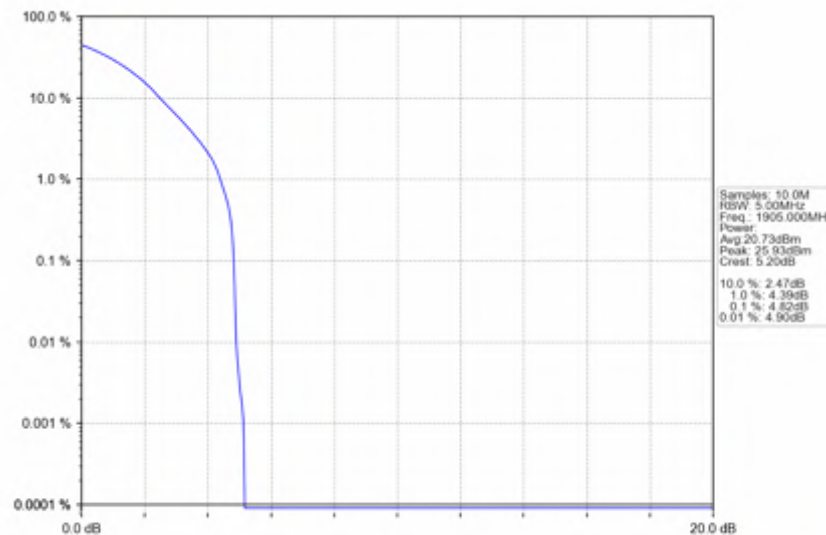
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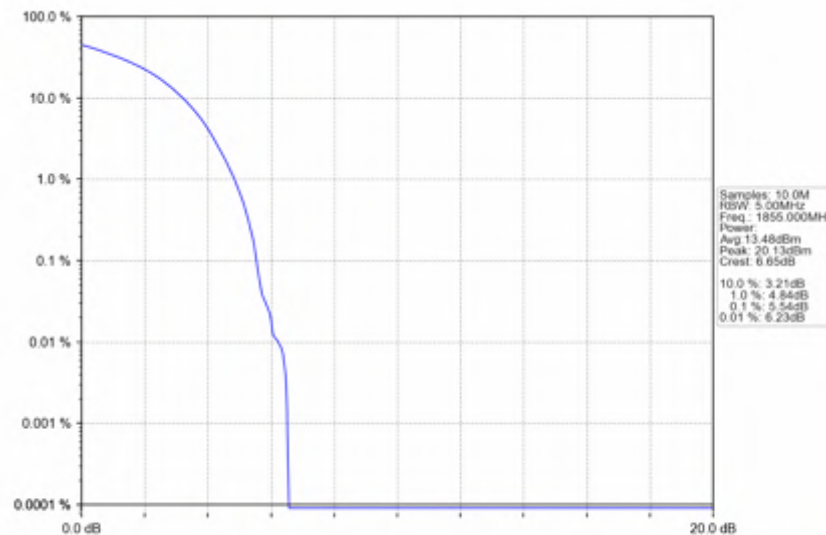
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n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_1905MHz_Outer_Full



n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1855MHz_Outer_Full



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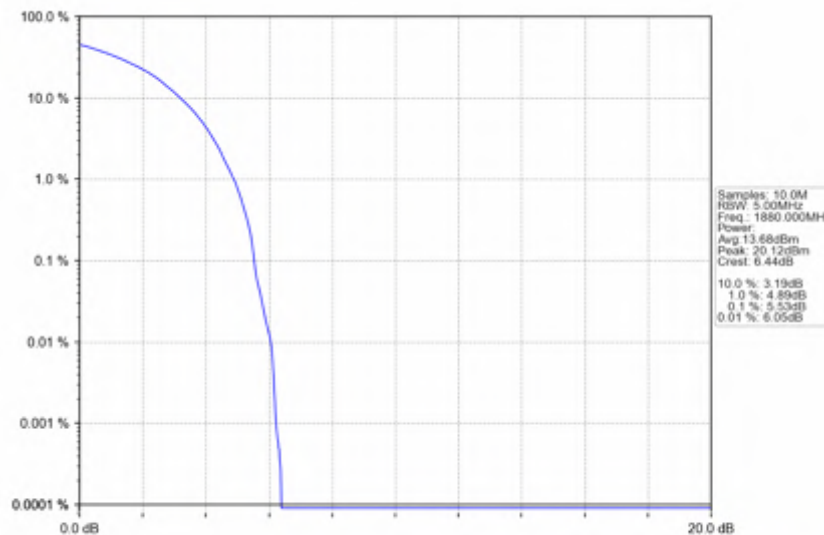
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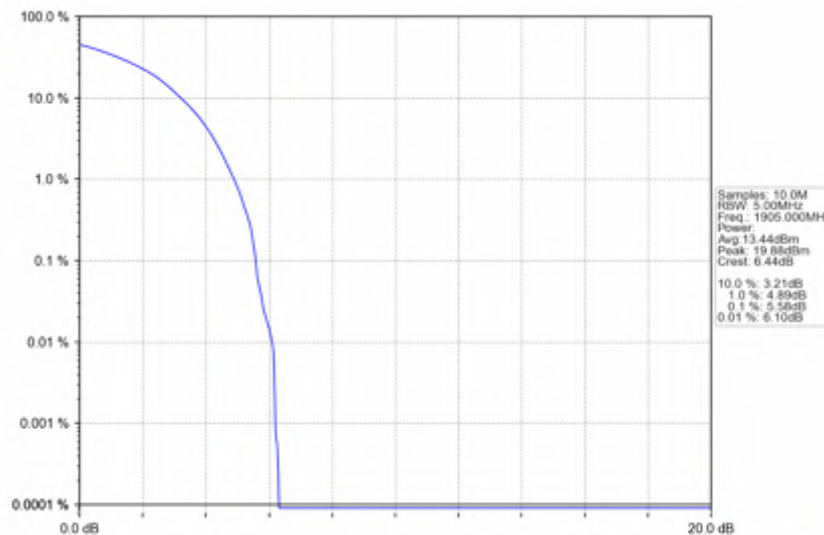
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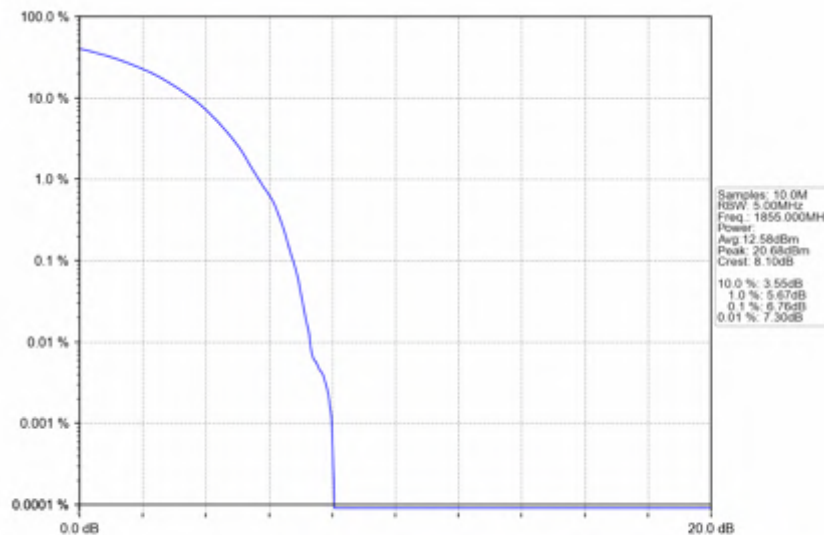


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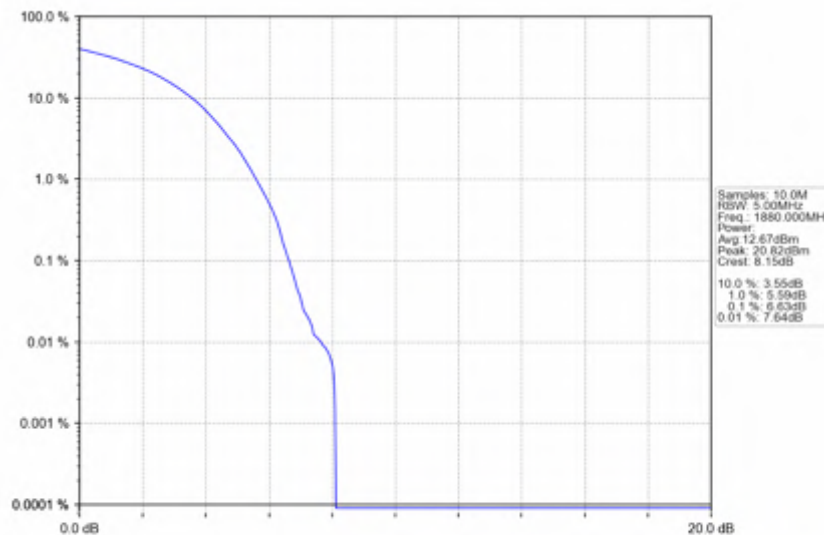
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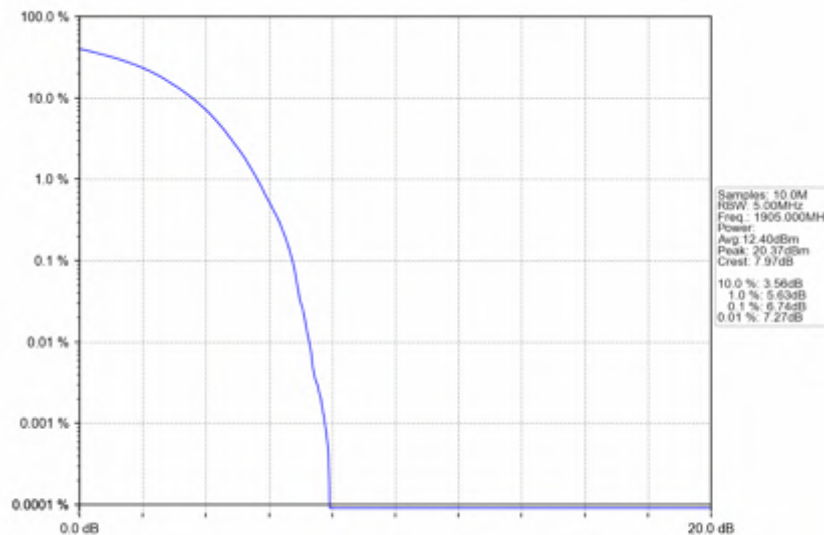


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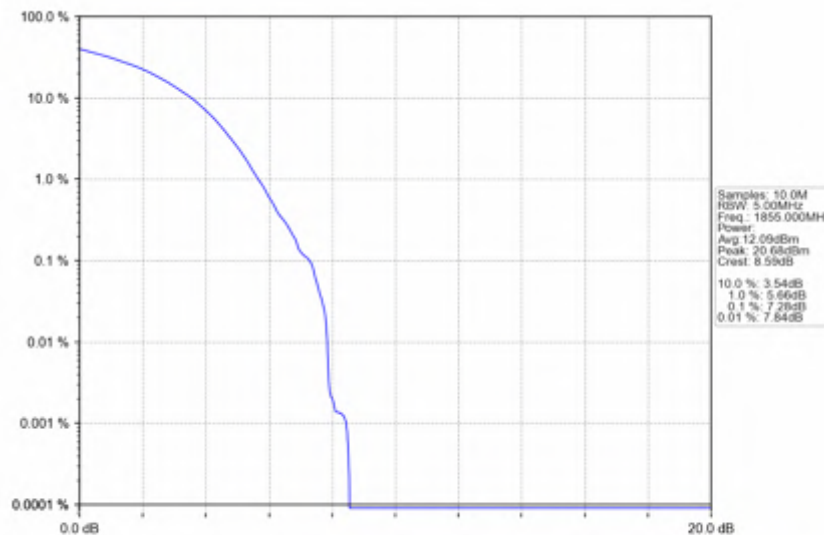
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n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_1855MHz_Outer_Full



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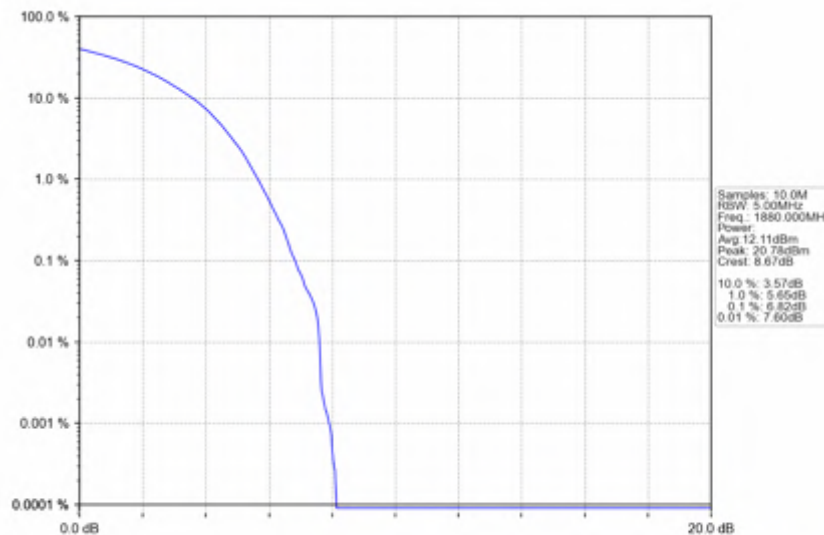
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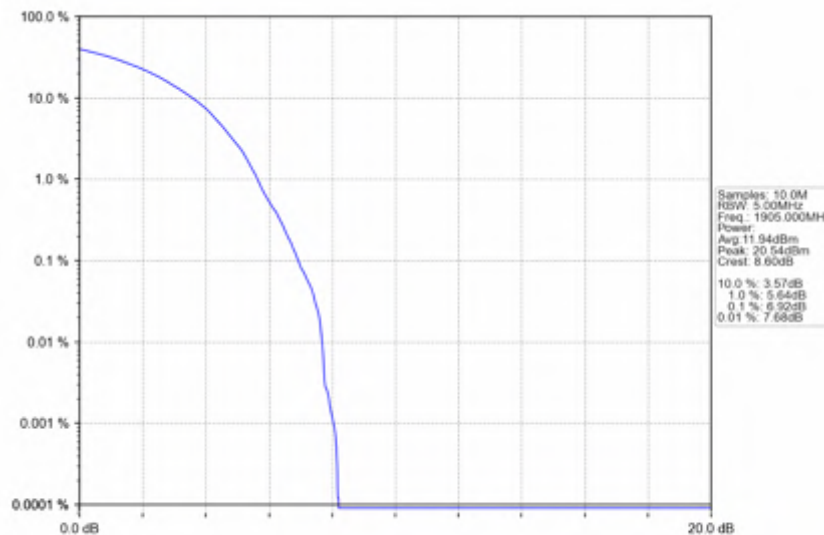
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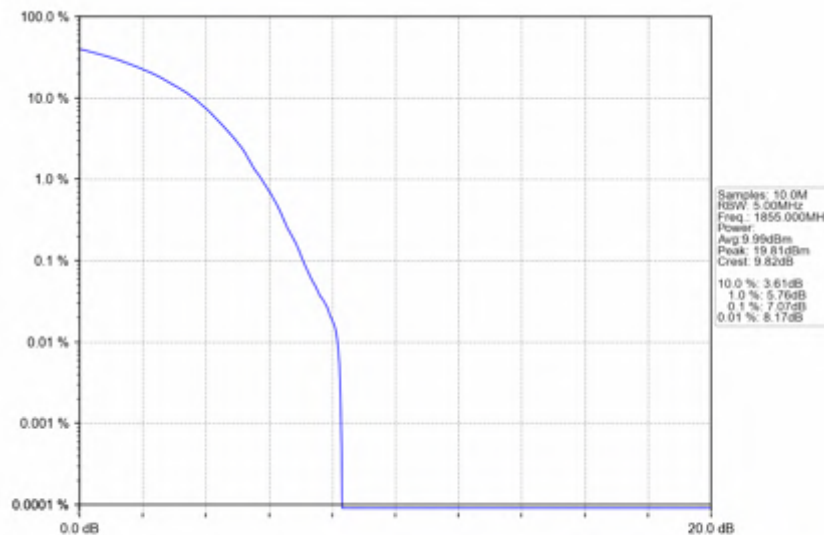


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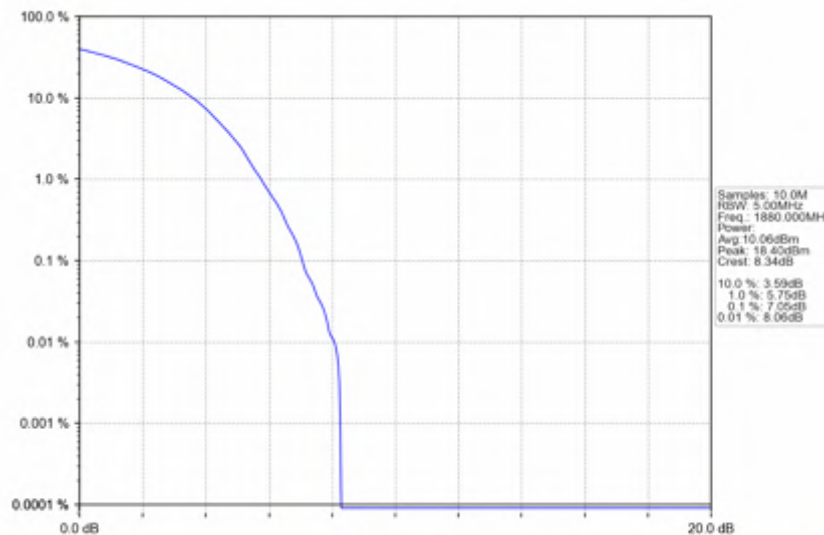
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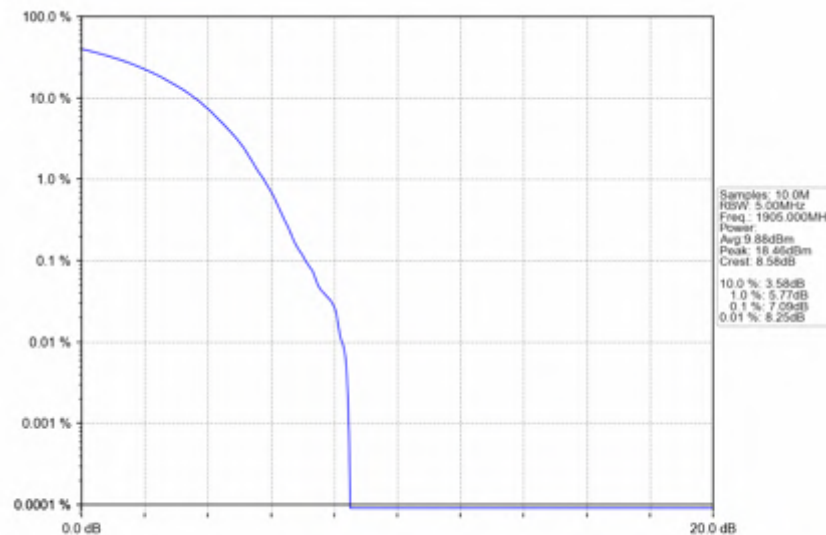


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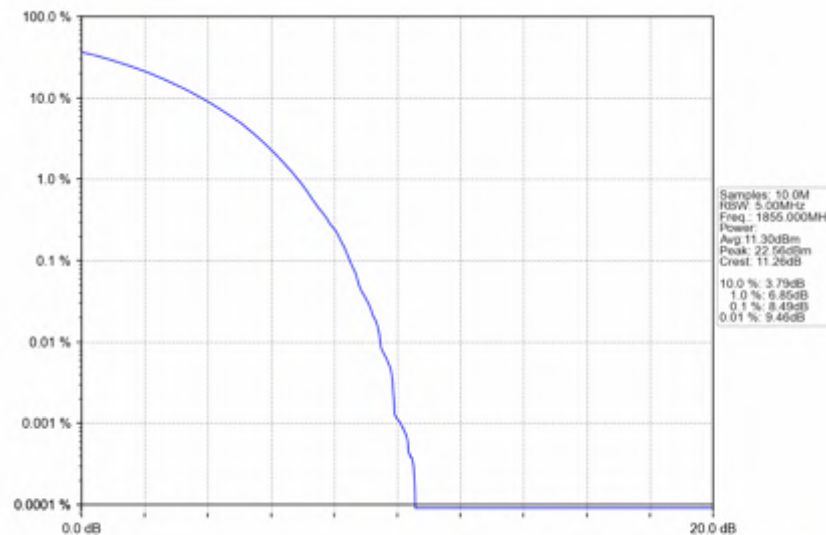
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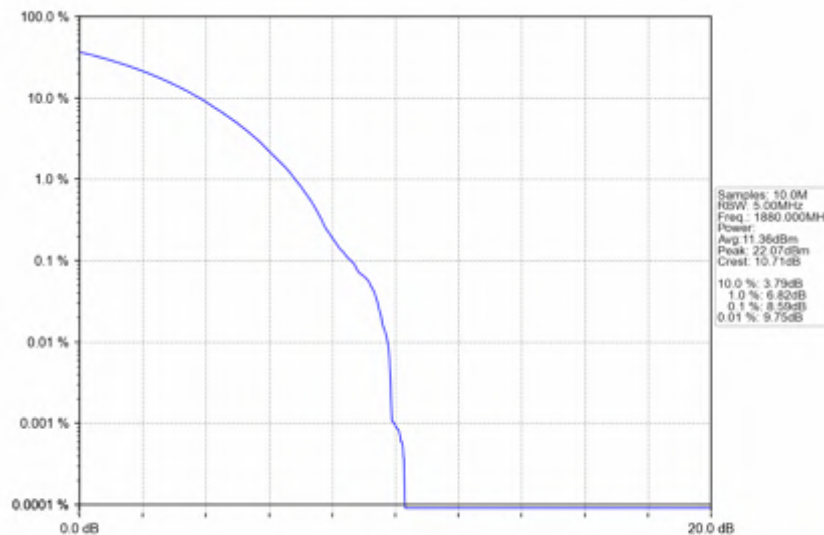


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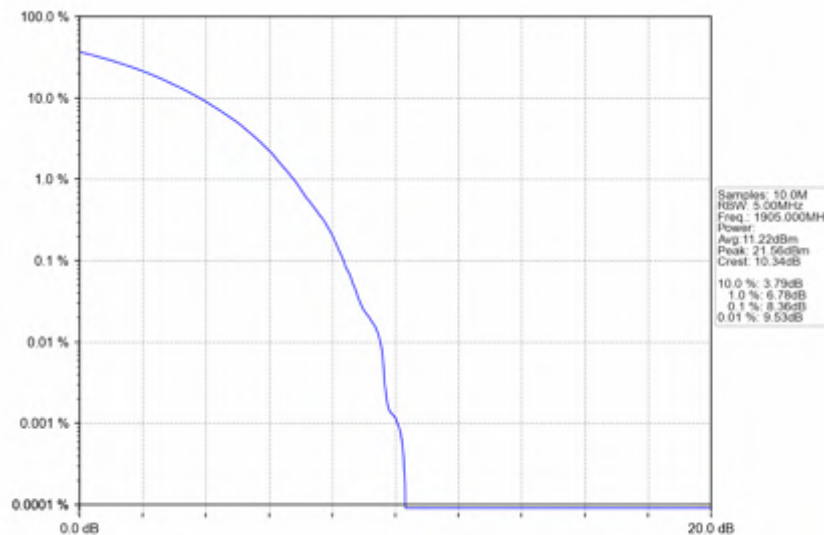
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n2_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1880MHz_Outer_Full



n2_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1905MHz_Outer_Full

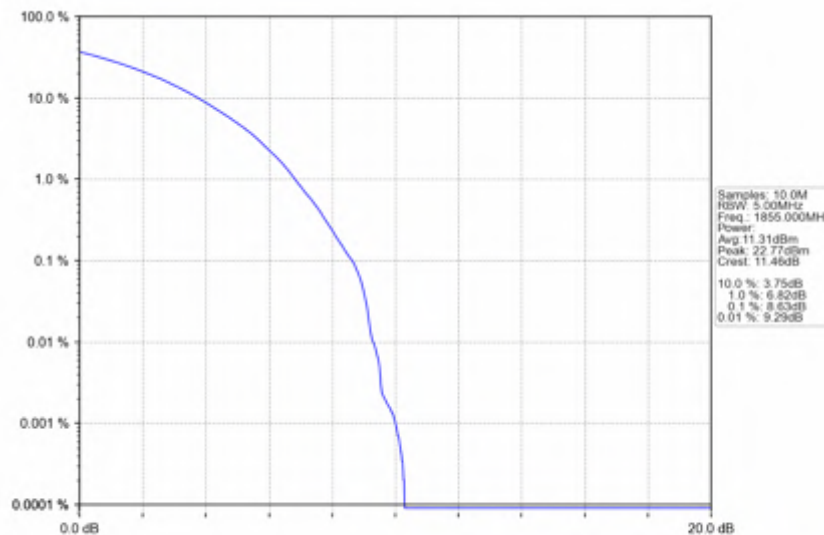


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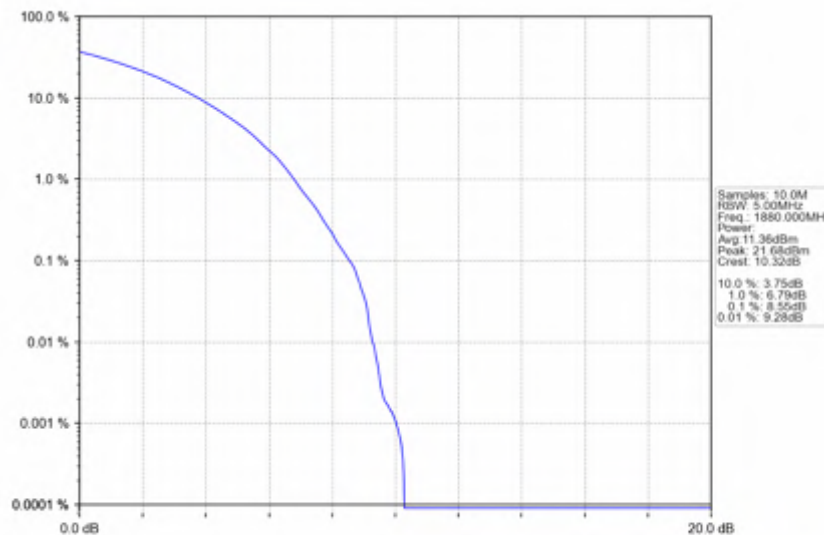
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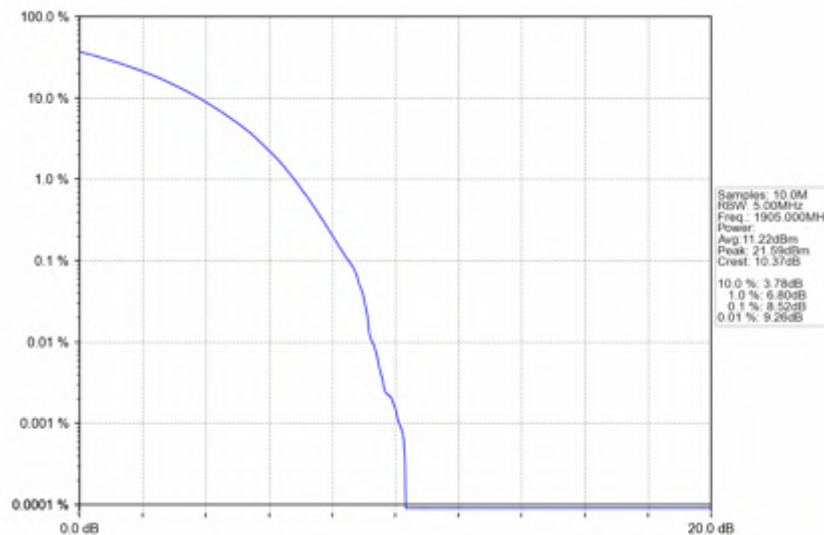


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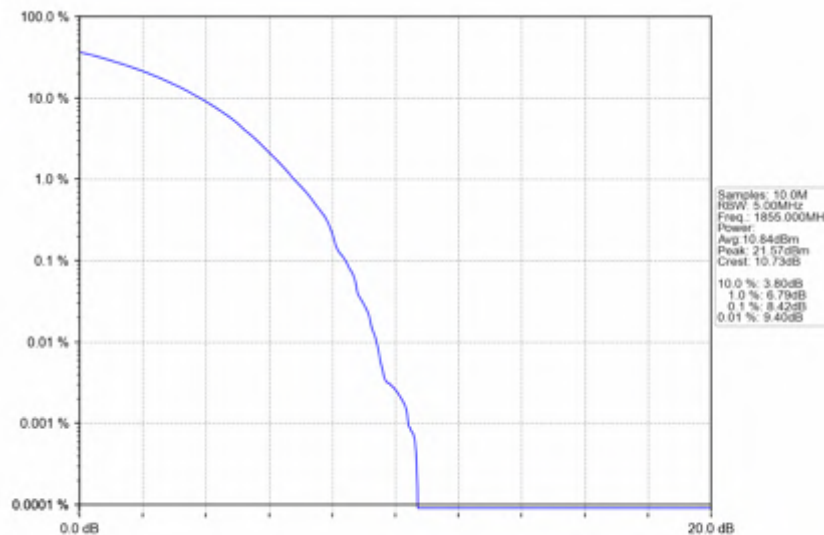
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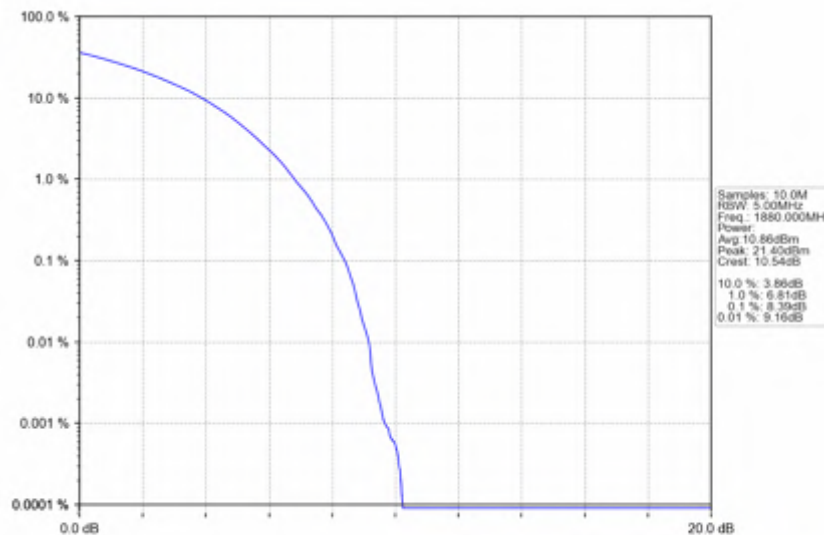


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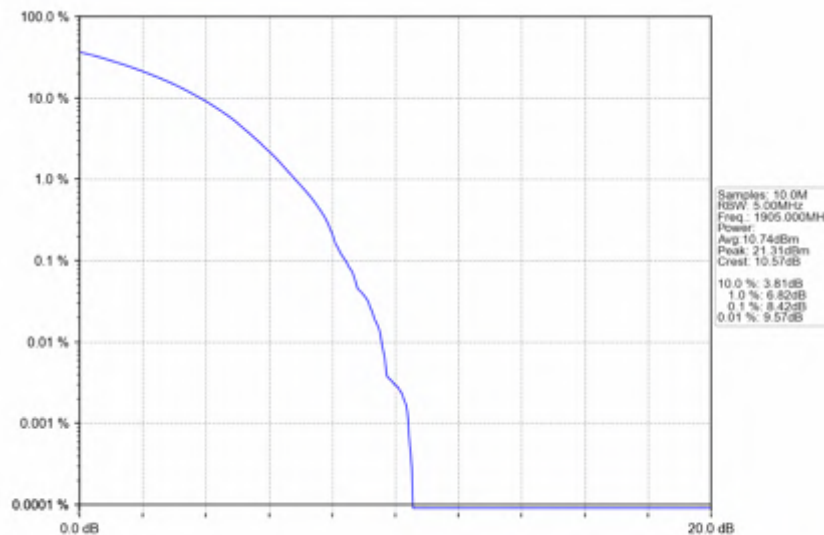
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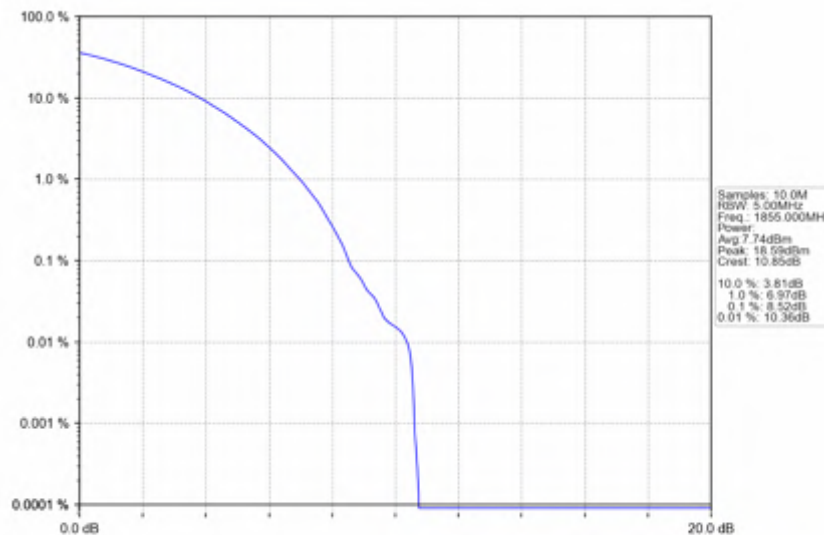


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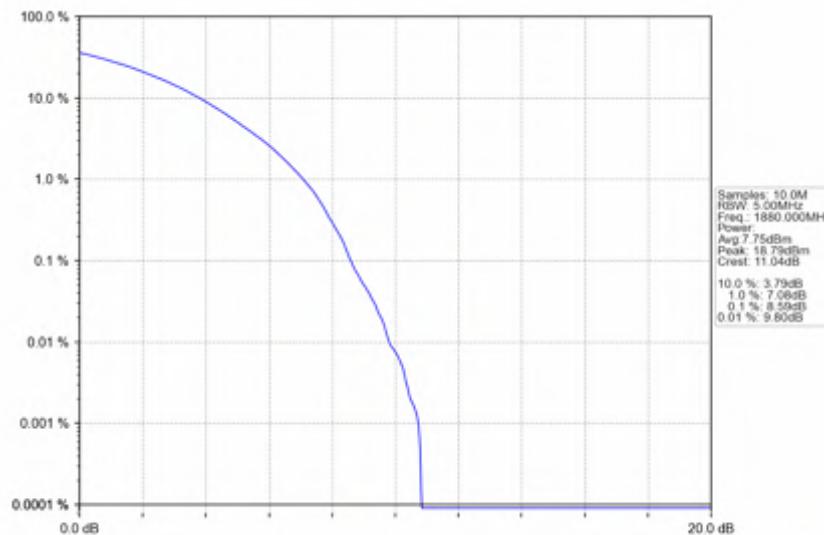
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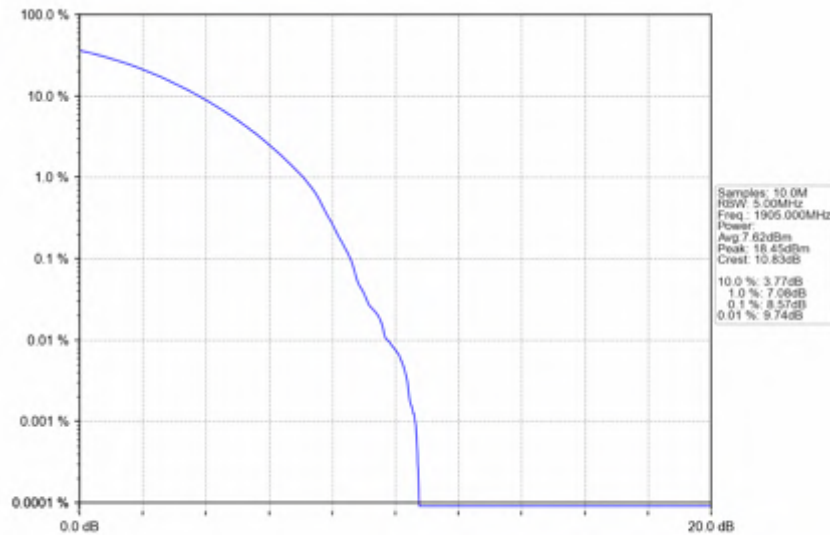


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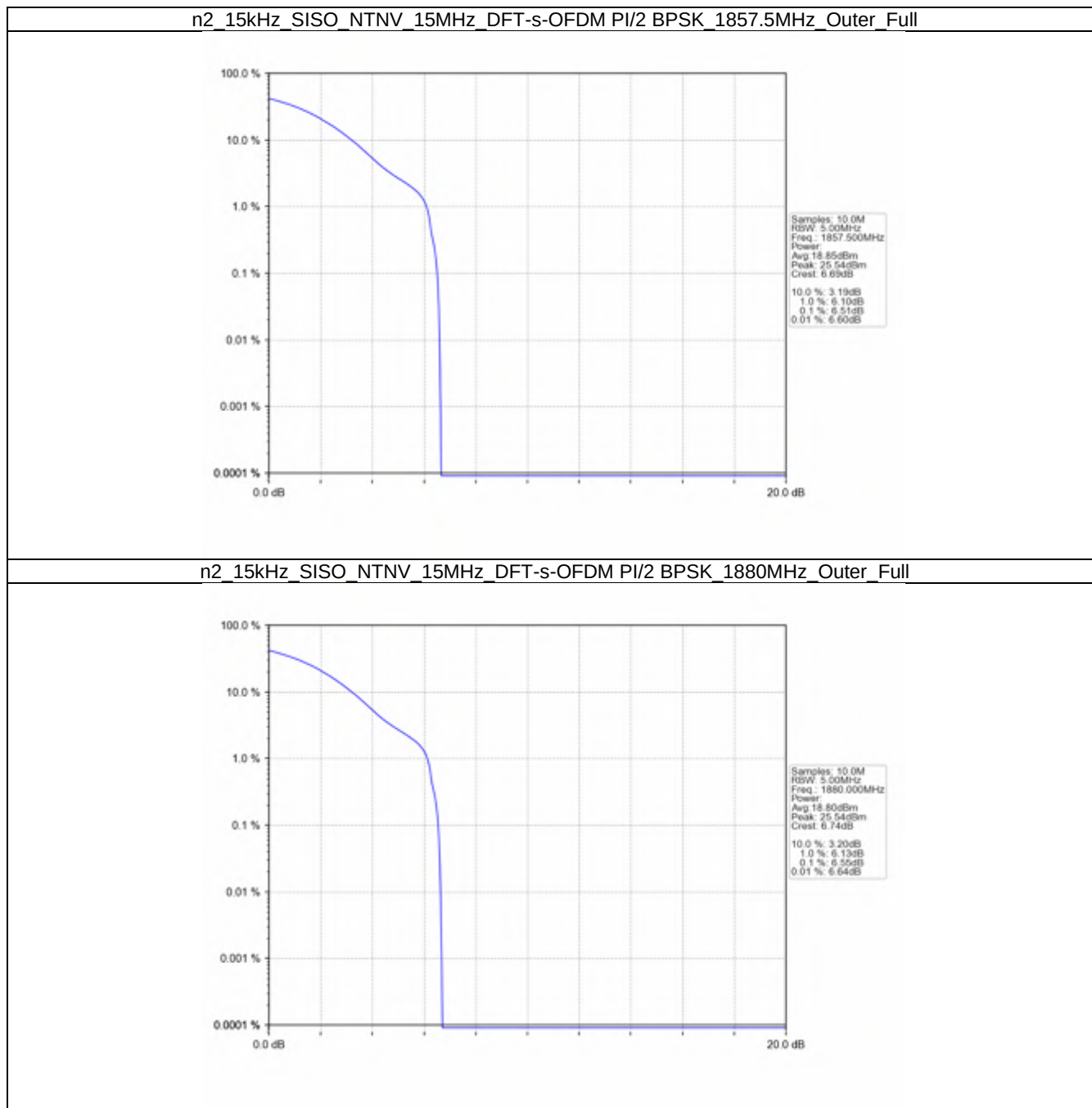
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1.3 15k_SISO_15MHz_NTNV

1.3.1 Test Result

5G NR n2 SCS=15kHz SISO 15MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	1857.5	Outer_Full	6.51	/	/	<=13	Pass
	1880	Outer_Full	6.55	/	/	<=13	Pass
	1902.5	Outer_Full	6.62	/	/	<=13	Pass
DFT-s-OFDM QPSK	1857.5	Outer_Full	6.64	/	/	<=13	Pass
	1880	Outer_Full	6.54	/	/	<=13	Pass
	1902.5	Outer_Full	6.43	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1857.5	Outer_Full	7.31	/	/	<=13	Pass
	1880	Outer_Full	7.27	/	/	<=13	Pass
	1902.5	Outer_Full	7.21	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1857.5	Outer_Full	7.12	/	/	<=13	Pass
	1880	Outer_Full	7.27	/	/	<=13	Pass
	1902.5	Outer_Full	7.38	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1857.5	Outer_Full	7.40	/	/	<=13	Pass
	1880	Outer_Full	7.47	/	/	<=13	Pass
	1902.5	Outer_Full	7.55	/	/	<=13	Pass
CP-OFDM QPSK	1857.5	Outer_Full	8.45	/	/	<=13	Pass
	1880	Outer_Full	8.41	/	/	<=13	Pass
	1902.5	Outer_Full	8.38	/	/	<=13	Pass
CP-OFDM 16 QAM	1857.5	Outer_Full	8.62	/	/	<=13	Pass
	1880	Outer_Full	8.44	/	/	<=13	Pass
	1902.5	Outer_Full	8.17	/	/	<=13	Pass
CP-OFDM 64 QAM	1857.5	Outer_Full	8.53	/	/	<=13	Pass
	1880	Outer_Full	8.52	/	/	<=13	Pass
	1902.5	Outer_Full	8.52	/	/	<=13	Pass
CP-OFDM 256 QAM	1857.5	Outer_Full	8.79	/	/	<=13	Pass
	1880	Outer_Full	8.75	/	/	<=13	Pass
	1902.5	Outer_Full	8.56	/	/	<=13	Pass

1.3.2 Test Graph

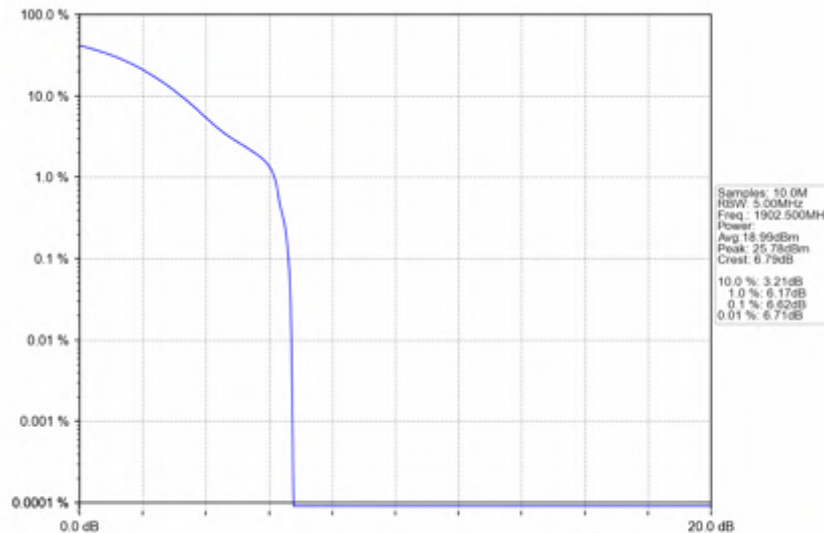


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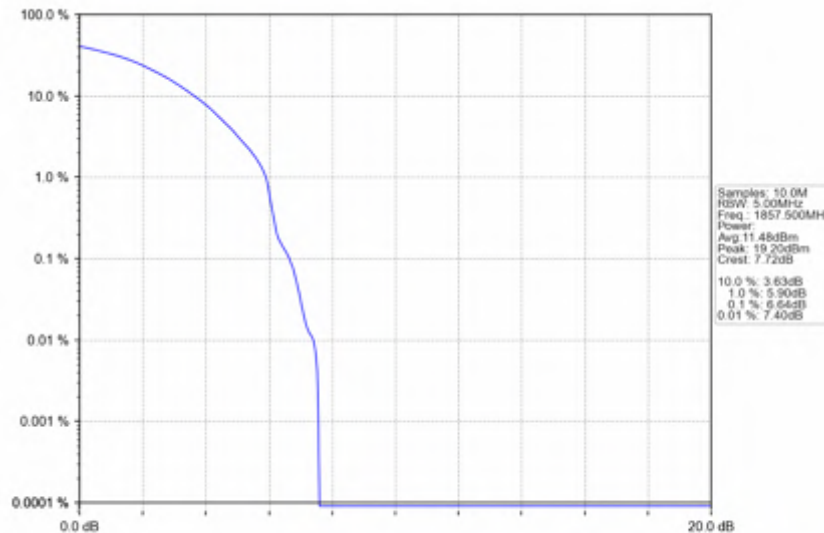
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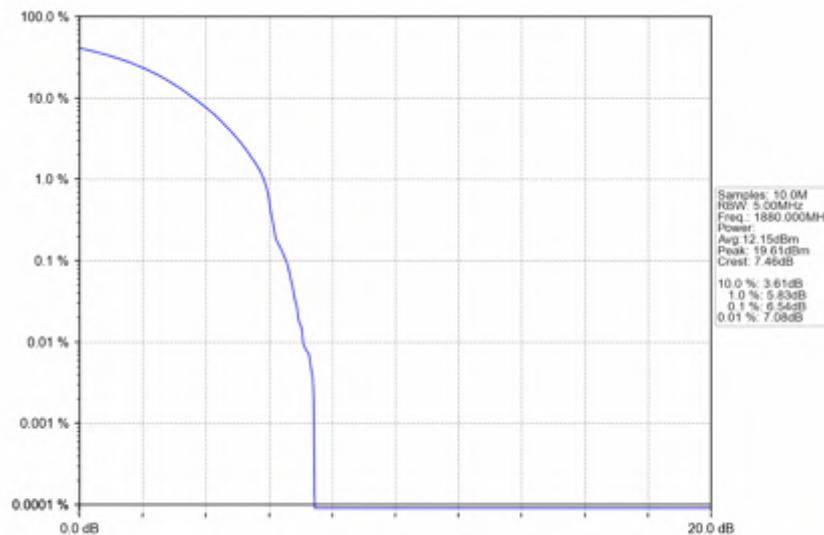


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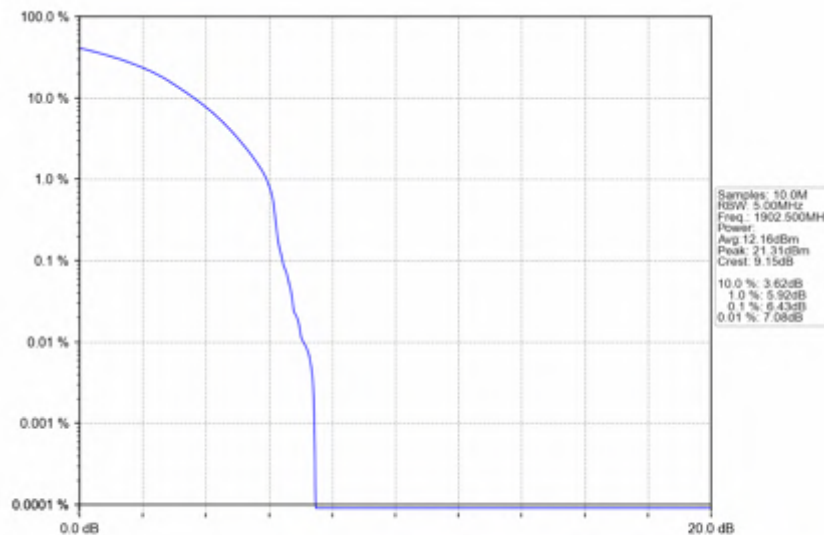
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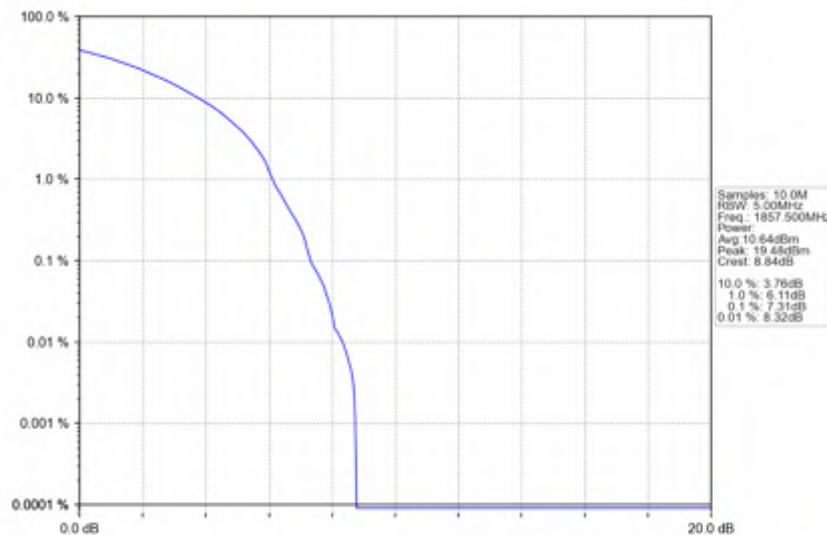
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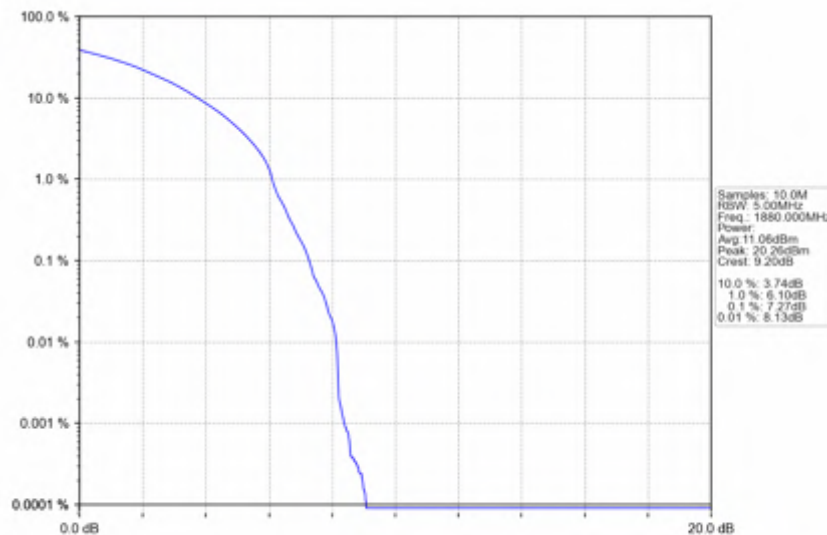
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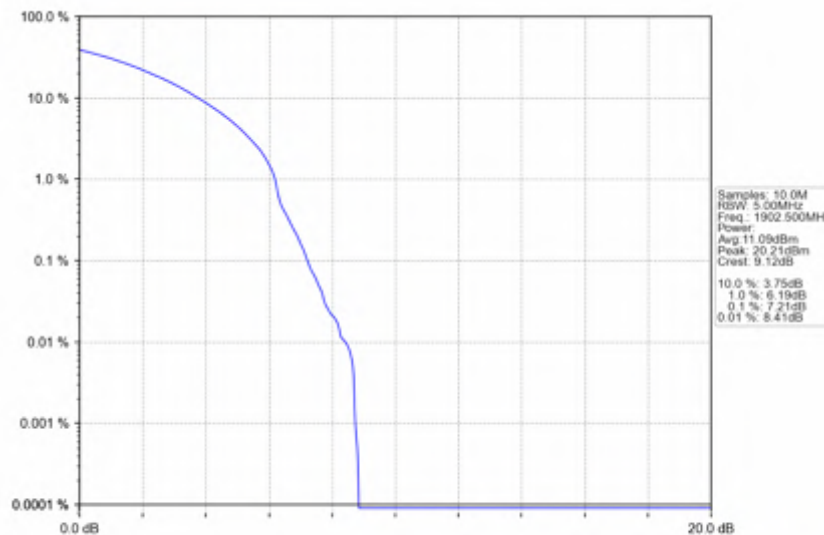
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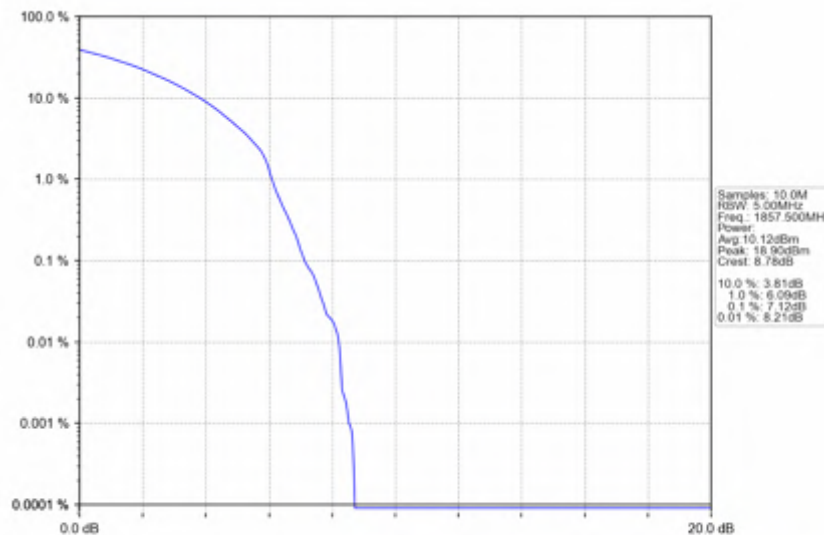
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n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16_QAM_1902.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_64_QAM_1857.5MHz_Outer_Full



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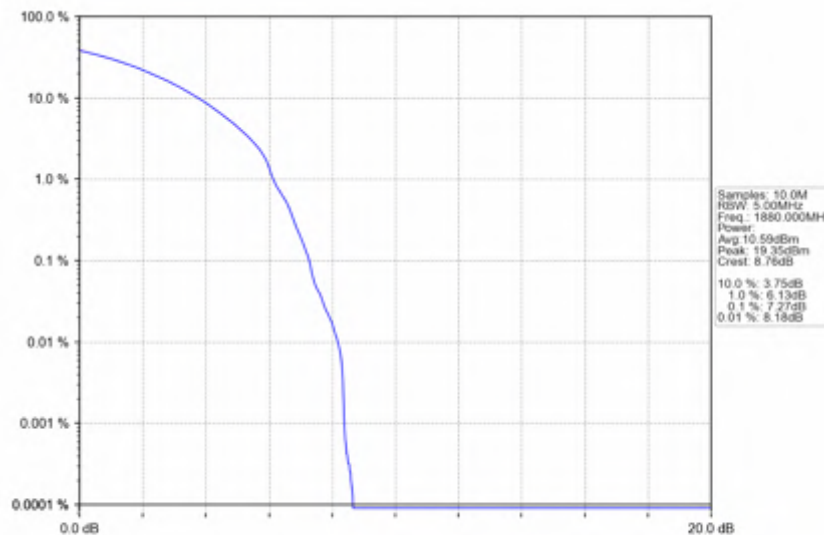
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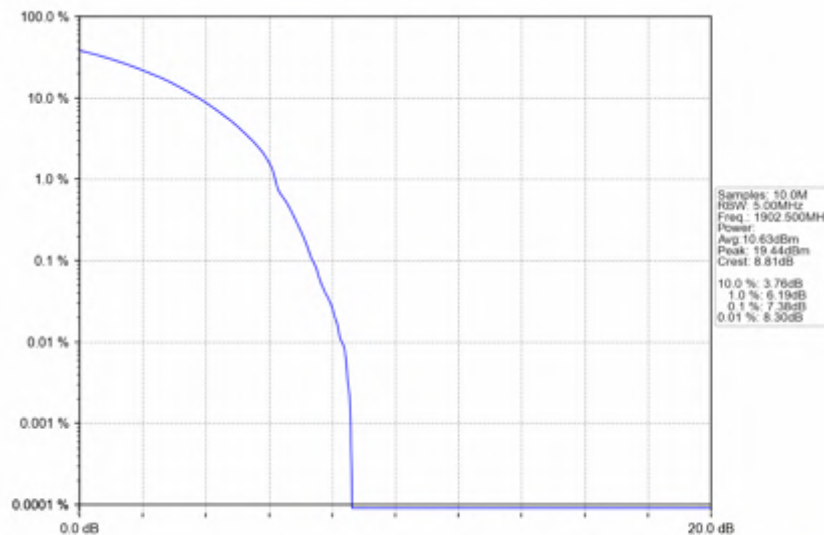
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n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_1880MHz_Outer_Full



n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_1902.5MHz_Outer_Full



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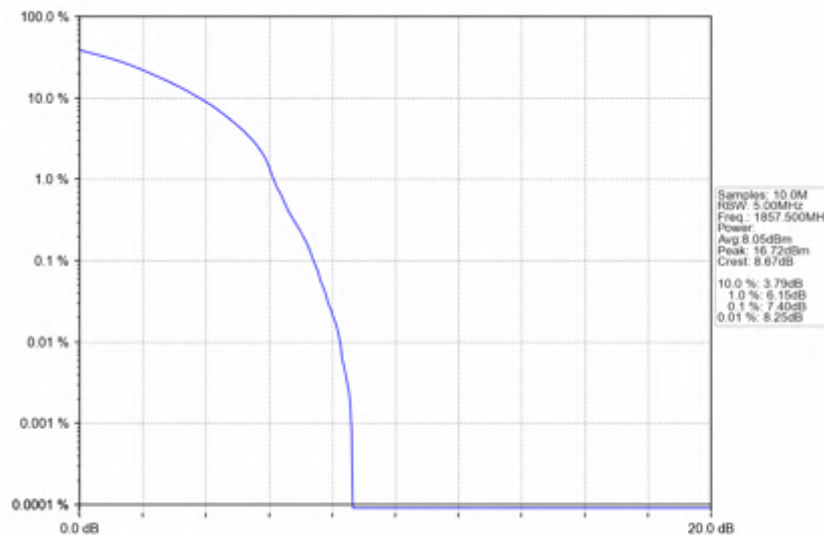
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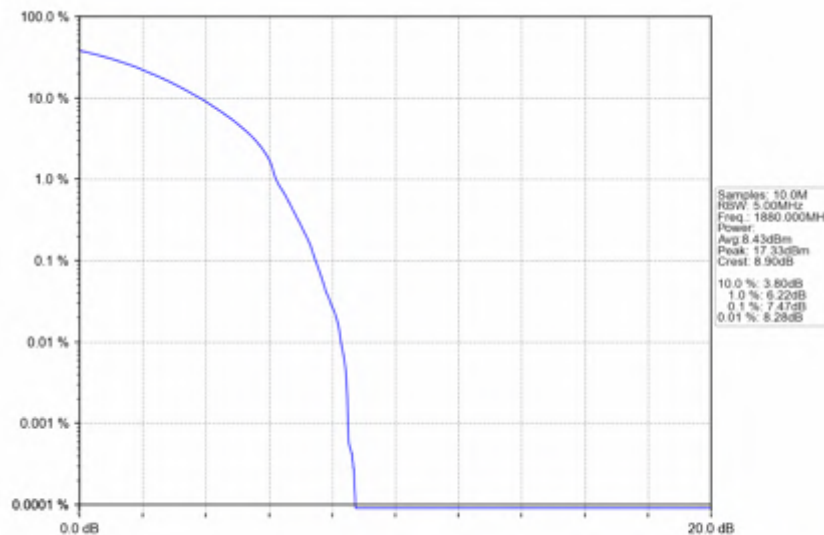
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n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_1857.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_1880MHz_Outer_Full

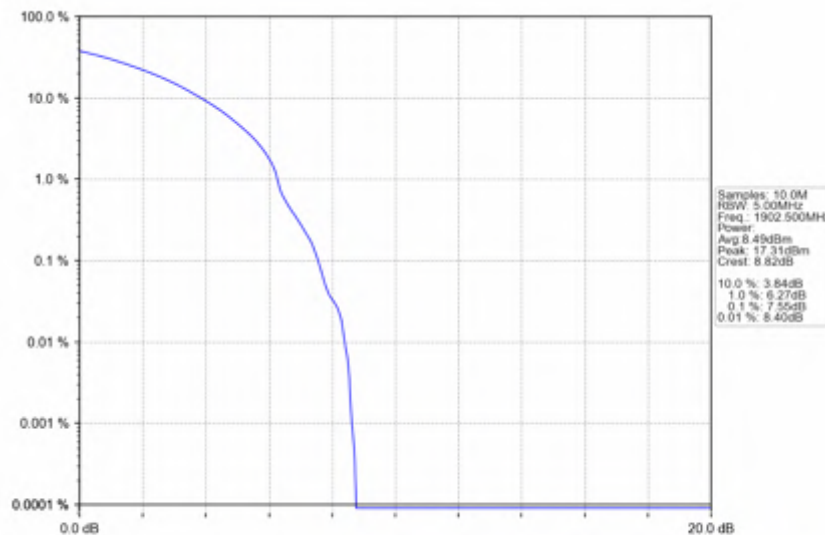


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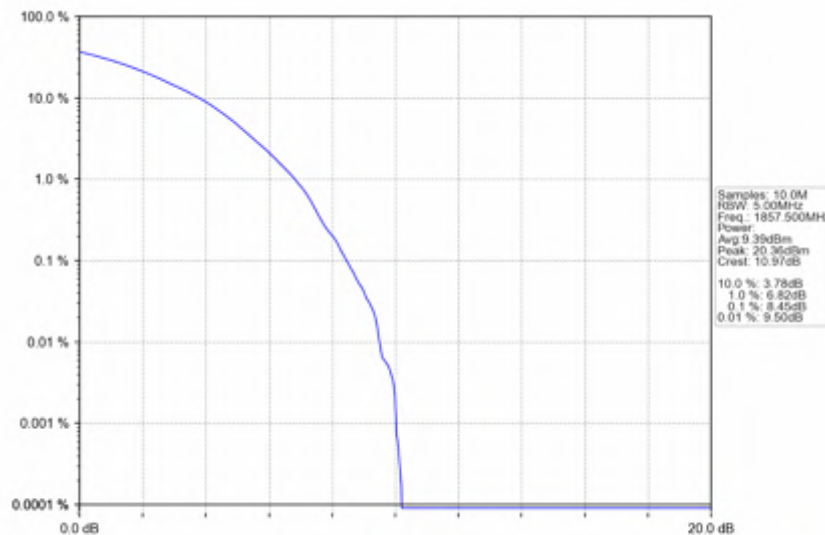
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n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_1902.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1857.5MHz_Outer_Full

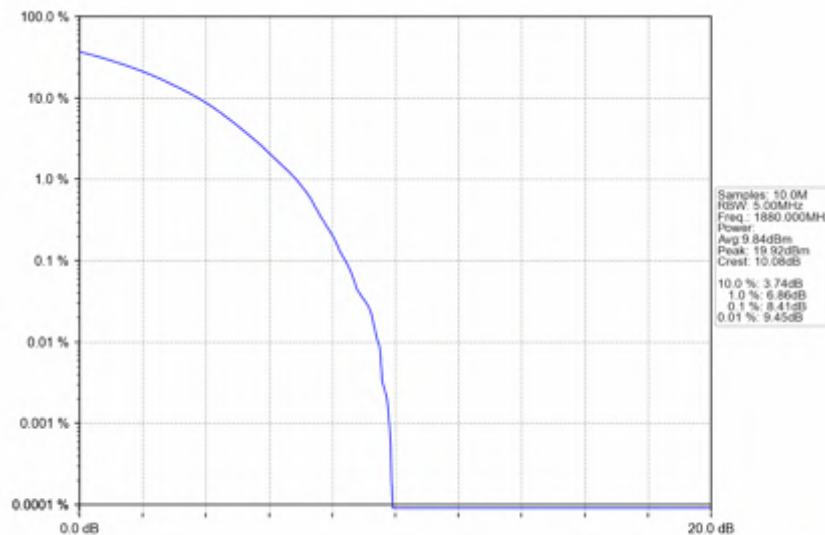


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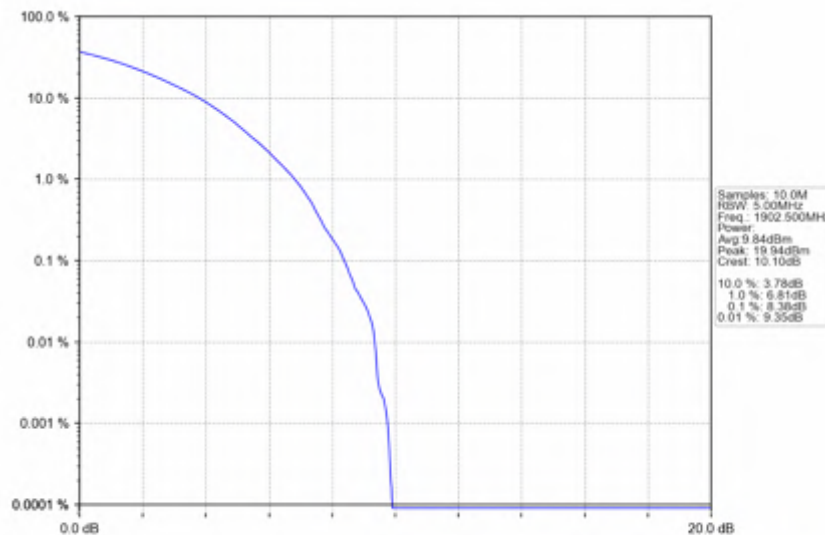
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n2_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1880MHz_Outer_Full



n2_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1902.5MHz_Outer_Full



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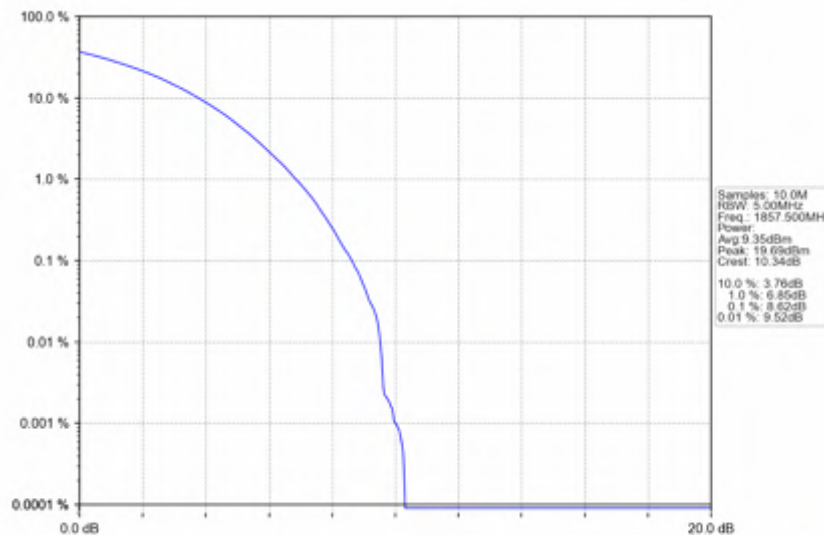
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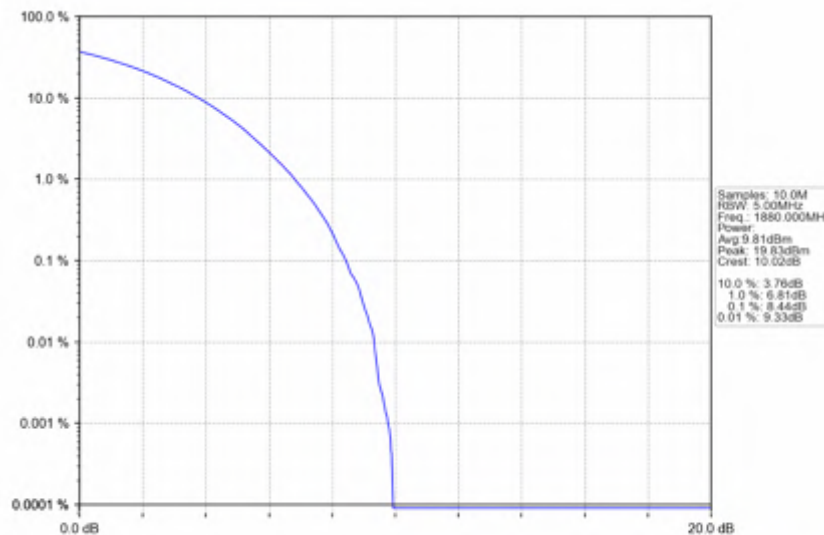
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n2_15kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_1857.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_1880MHz_Outer_Full

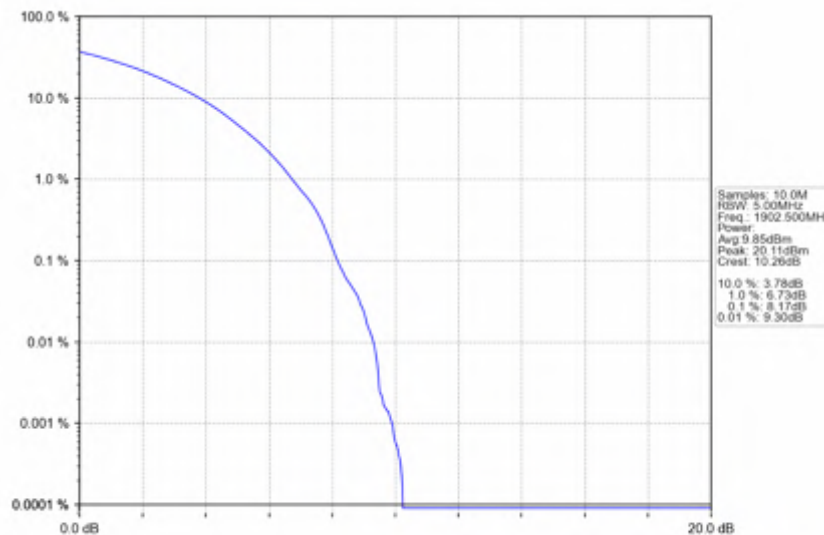


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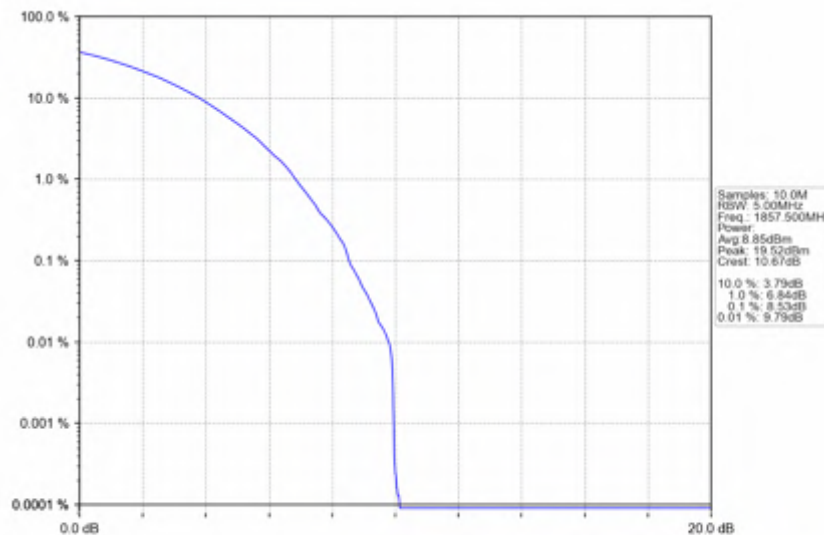
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n2_15kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_1902.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_15MHz_CP-OFDM_64_QAM_1857.5MHz_Outer_Full



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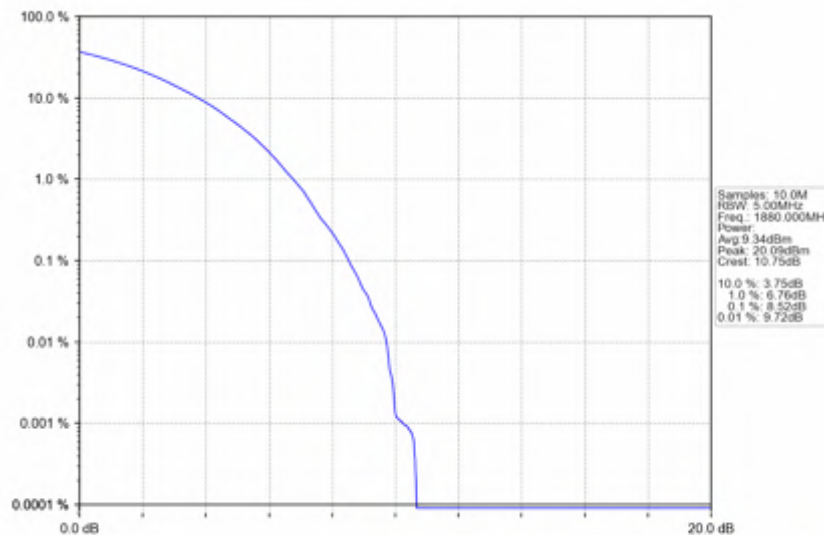
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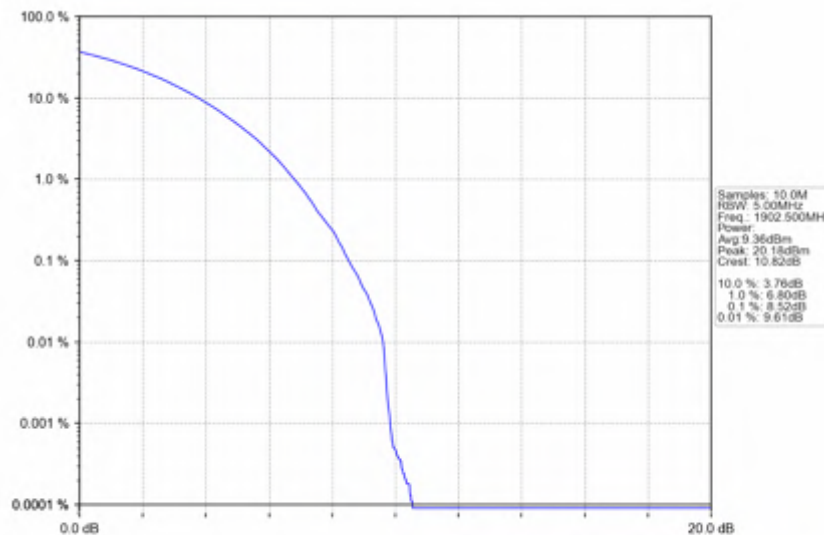
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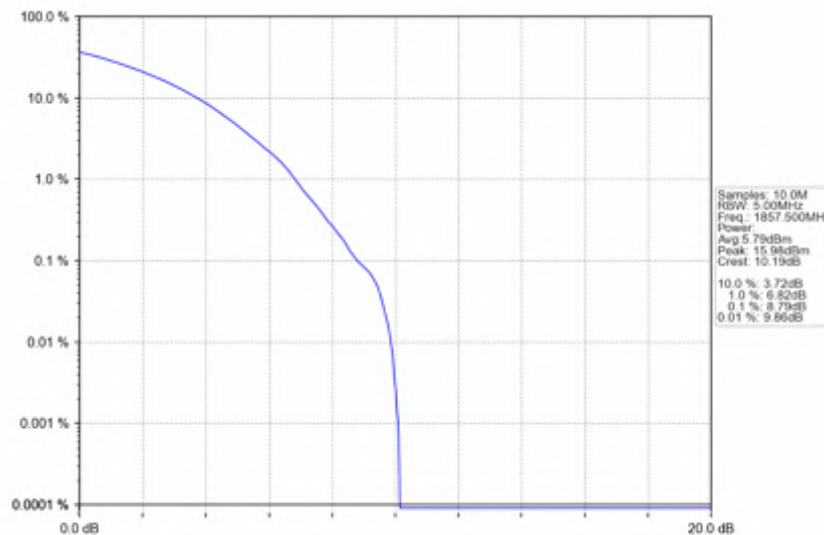
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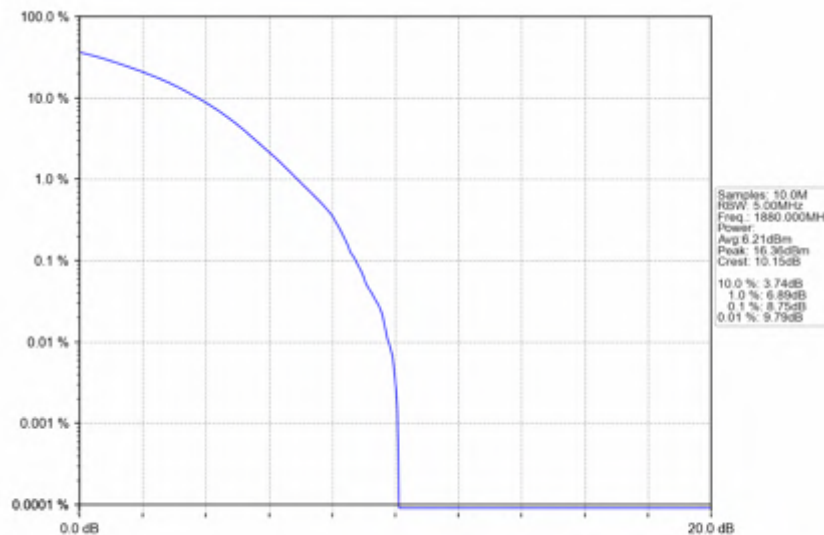
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n2_15kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_1880MHz_Outer_Full



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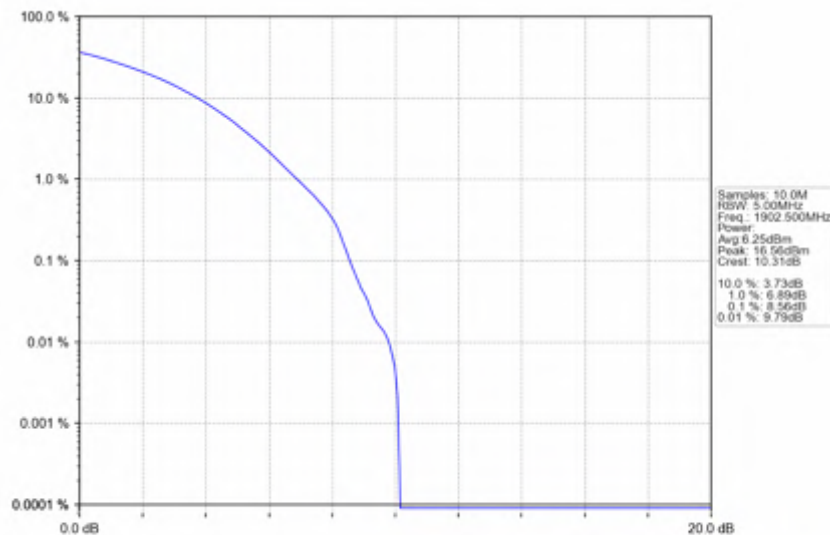
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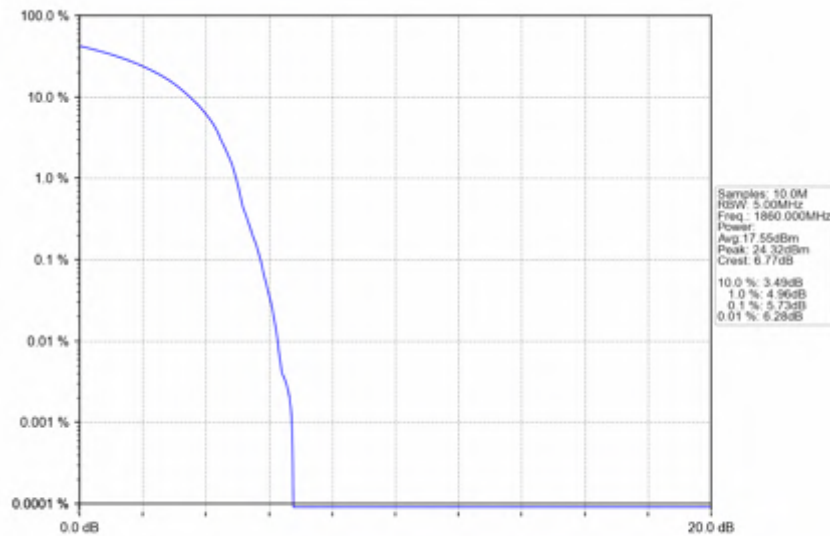
1.4 15k_SISO_20MHz_NTNV

1.4.1 Test Result

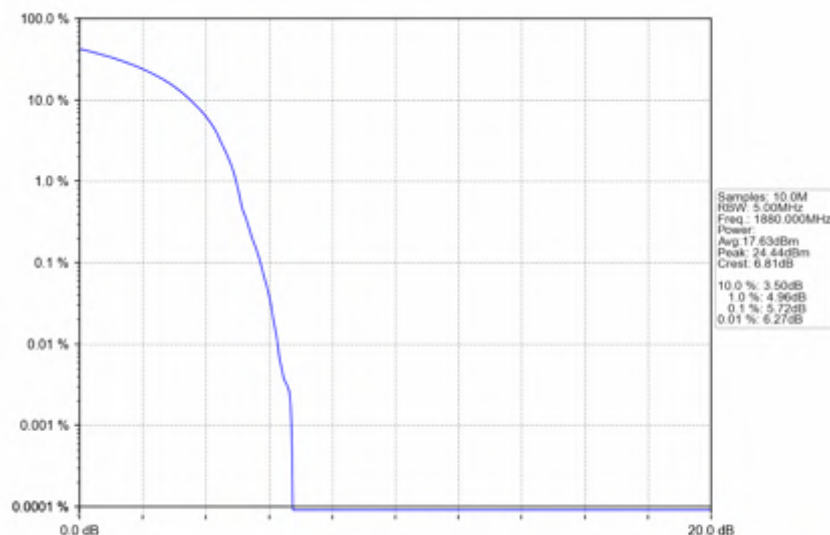
5G NR n2 SCS=15kHz SISO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	1860	Outer_Full	5.73	/	/	<=13	Pass
	1880	Outer_Full	5.72	/	/	<=13	Pass
	1900	Outer_Full	5.74	/	/	<=13	Pass
DFT-s-OFDM QPSK	1860	Outer_Full	7.00	/	/	<=13	Pass
	1880	Outer_Full	6.87	/	/	<=13	Pass
	1900	Outer_Full	6.84	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1860	Outer_Full	7.52	/	/	<=13	Pass
	1880	Outer_Full	7.53	/	/	<=13	Pass
	1900	Outer_Full	7.59	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1860	Outer_Full	8.13	/	/	<=13	Pass
	1880	Outer_Full	8.01	/	/	<=13	Pass
	1900	Outer_Full	7.49	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1860	Outer_Full	7.75	/	/	<=13	Pass
	1880	Outer_Full	7.87	/	/	<=13	Pass
	1900	Outer_Full	8.06	/	/	<=13	Pass
CP-OFDM QPSK	1860	Outer_Full	8.70	/	/	<=13	Pass
	1880	Outer_Full	8.71	/	/	<=13	Pass
	1900	Outer_Full	8.66	/	/	<=13	Pass
CP-OFDM 16 QAM	1860	Outer_Full	8.58	/	/	<=13	Pass
	1880	Outer_Full	8.51	/	/	<=13	Pass
	1900	Outer_Full	8.55	/	/	<=13	Pass
CP-OFDM 64 QAM	1860	Outer_Full	8.63	/	/	<=13	Pass
	1880	Outer_Full	8.50	/	/	<=13	Pass
	1900	Outer_Full	8.44	/	/	<=13	Pass
CP-OFDM 256 QAM	1860	Outer_Full	8.67	/	/	<=13	Pass
	1880	Outer_Full	8.61	/	/	<=13	Pass
	1900	Outer_Full	8.57	/	/	<=13	Pass

1.4.2 Test Graph

n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_1860MHz_Outer_Full



n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_1880MHz_Outer_Full



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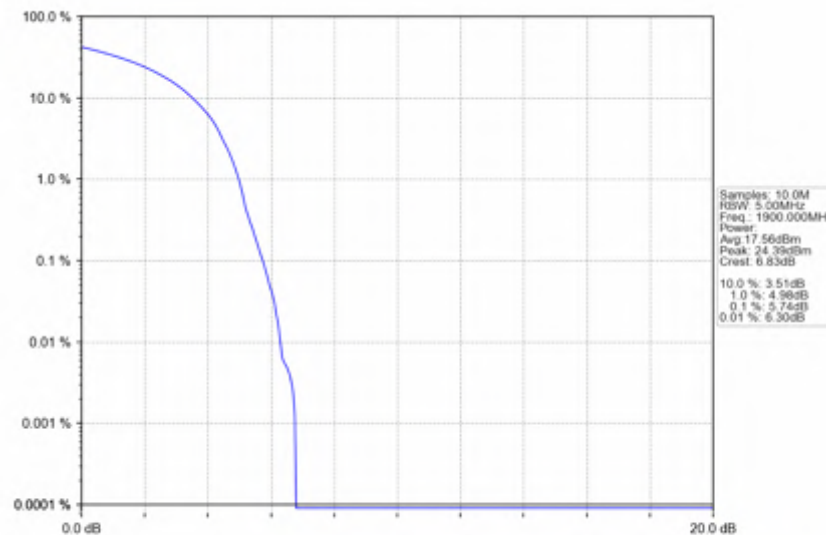
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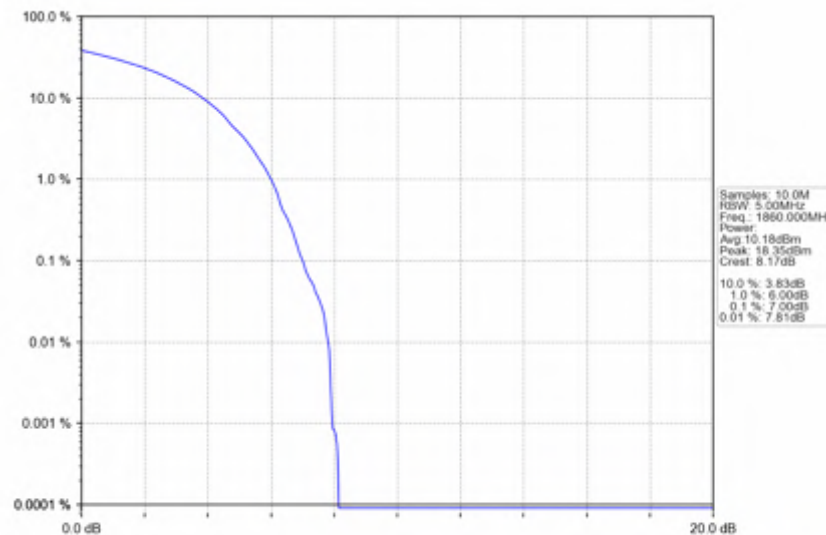
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n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_1900MHz_Outer_Full



n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_1860MHz_Outer_Full

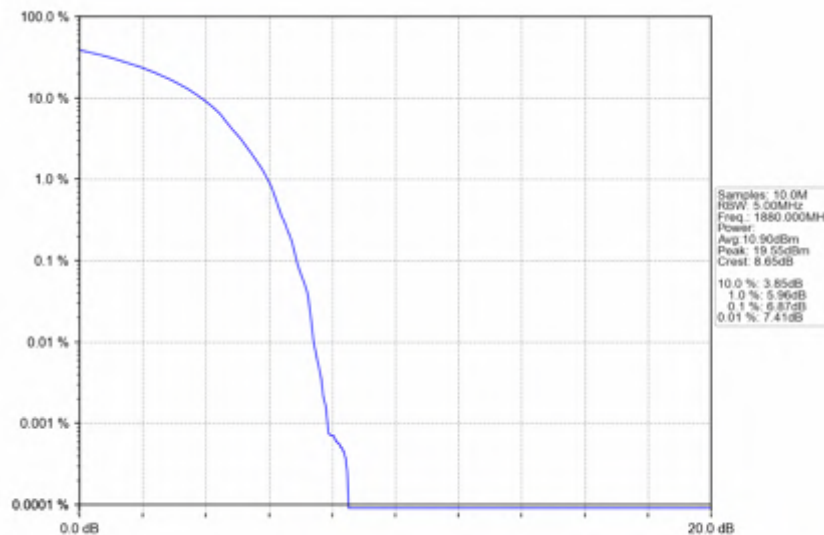


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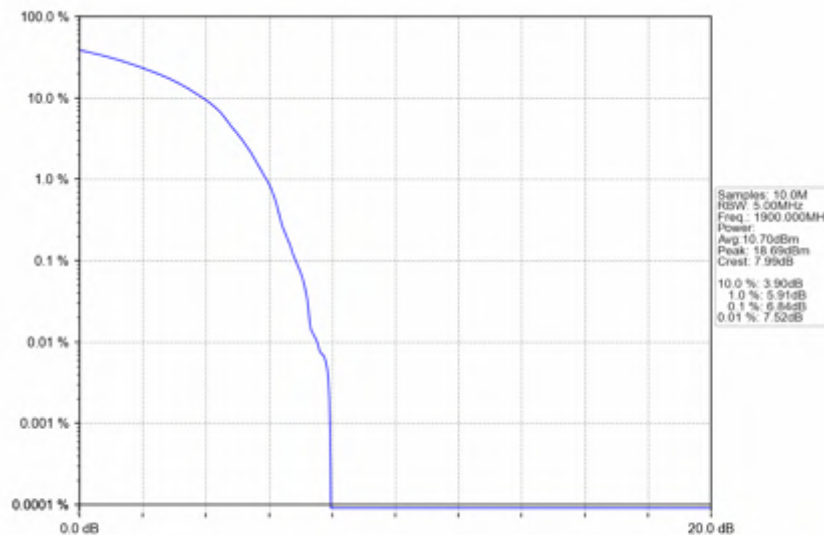
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n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_1880MHz_Outer_Full



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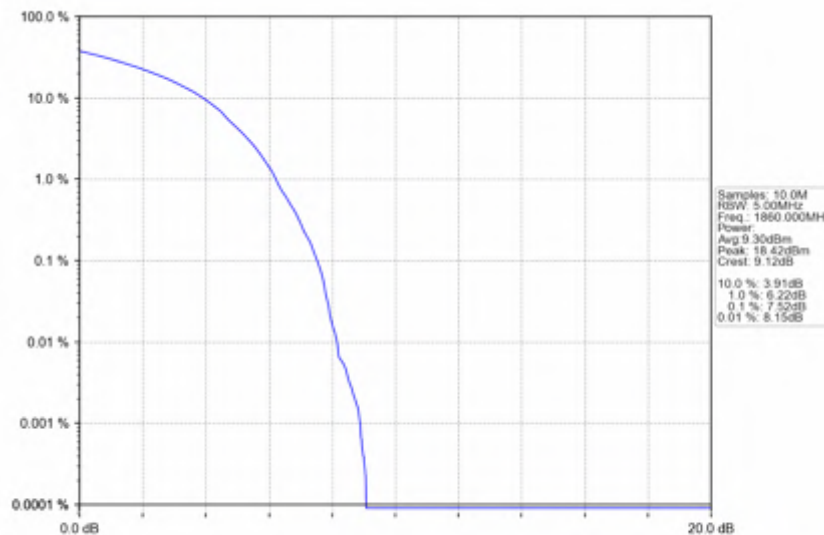


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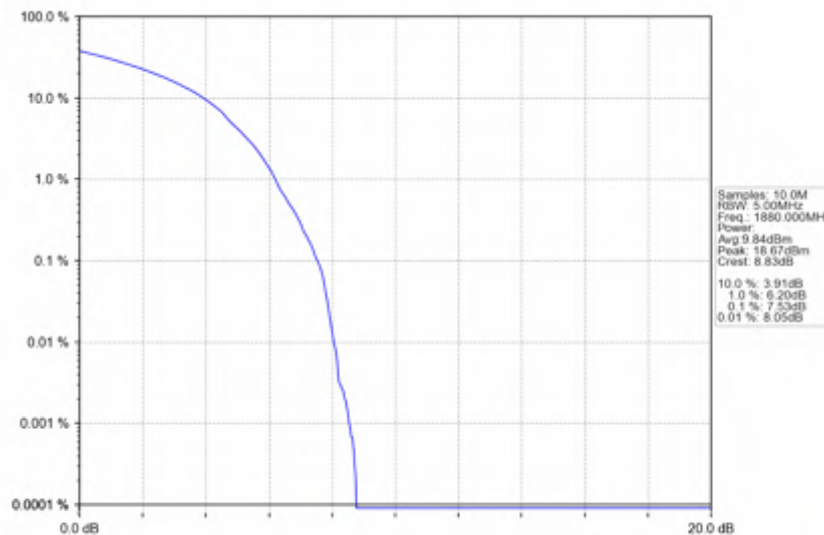
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n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_1860MHz_Outer_Full



n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_1880MHz_Outer_Full



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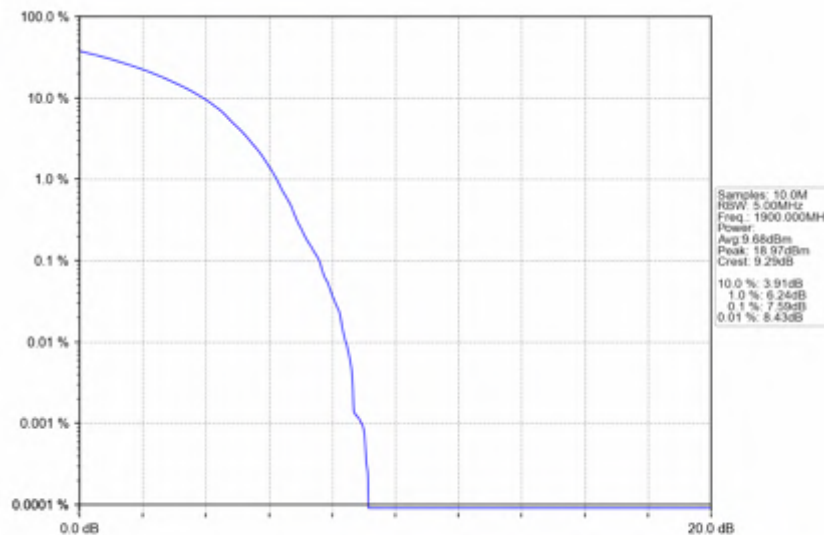
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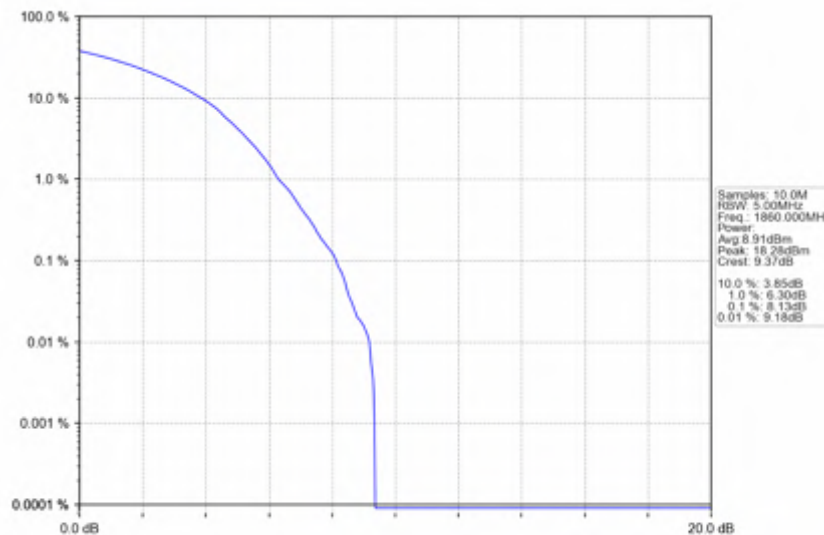
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n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16 QAM_1900MHz_Outer_Full



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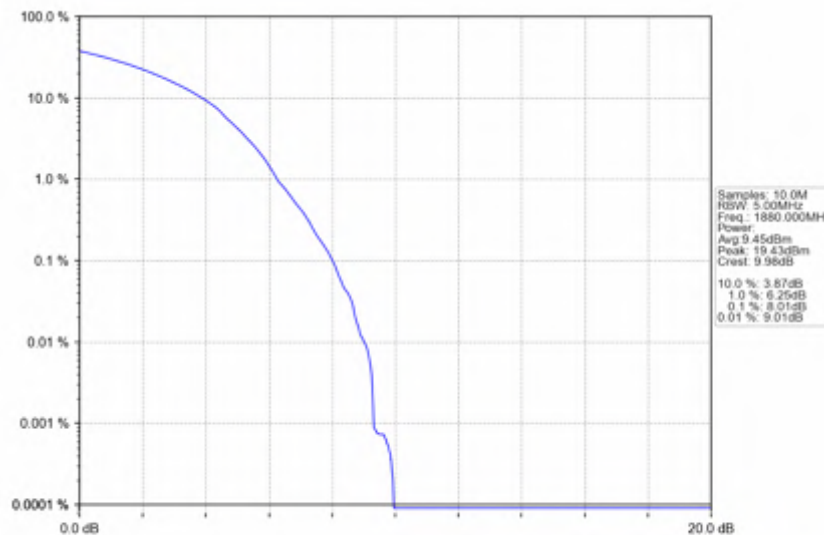


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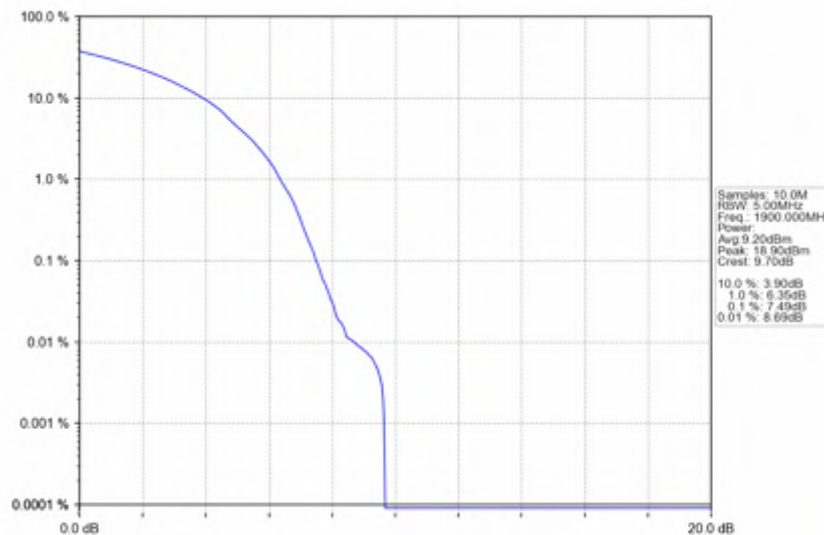
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n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_1880MHz_Outer_Full



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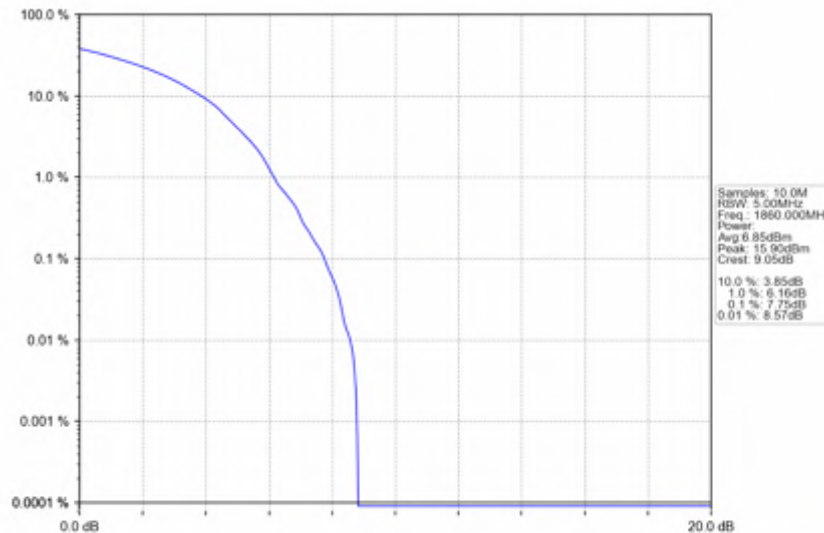
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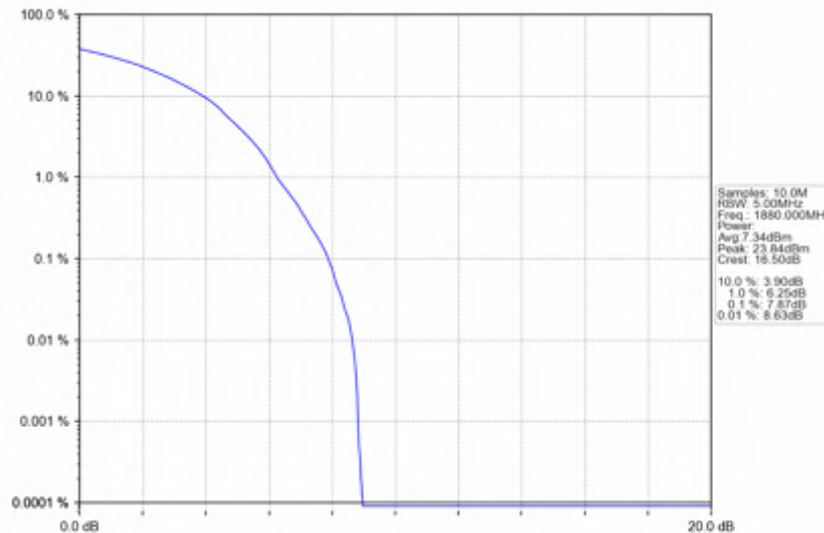
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n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_1860MHz_Outer_Full



n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_1880MHz_Outer_Full



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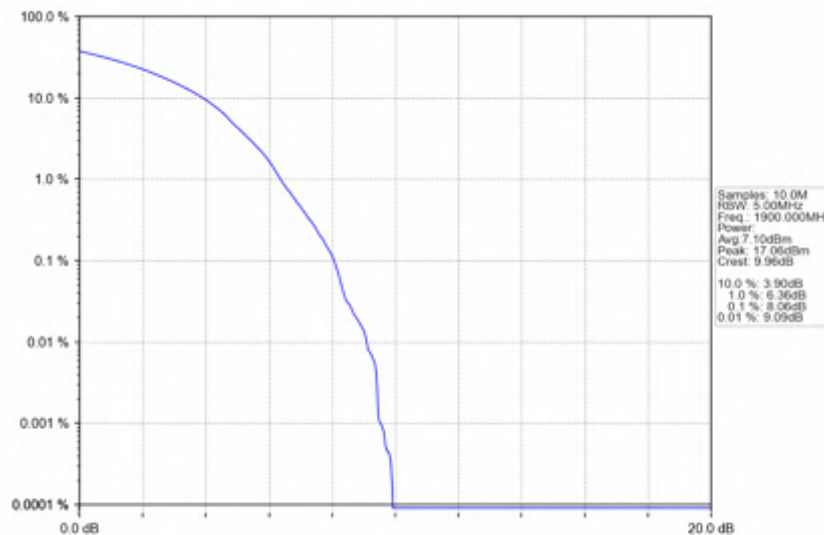
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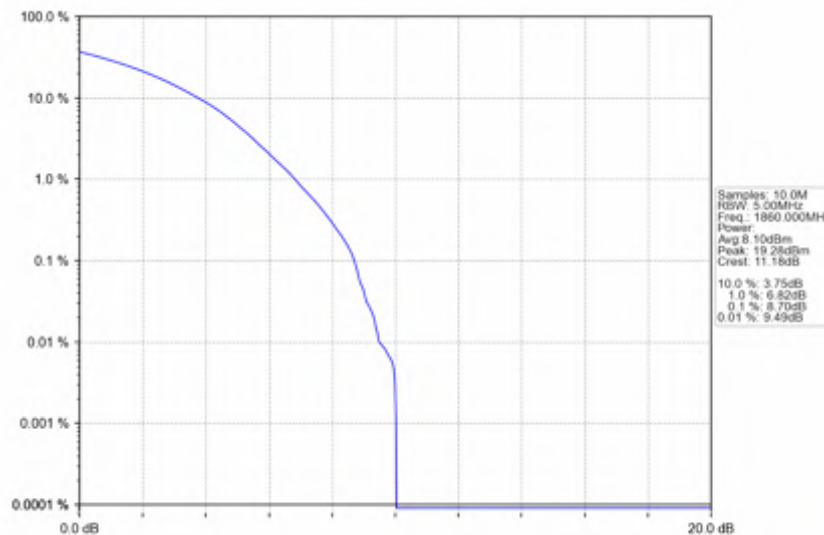
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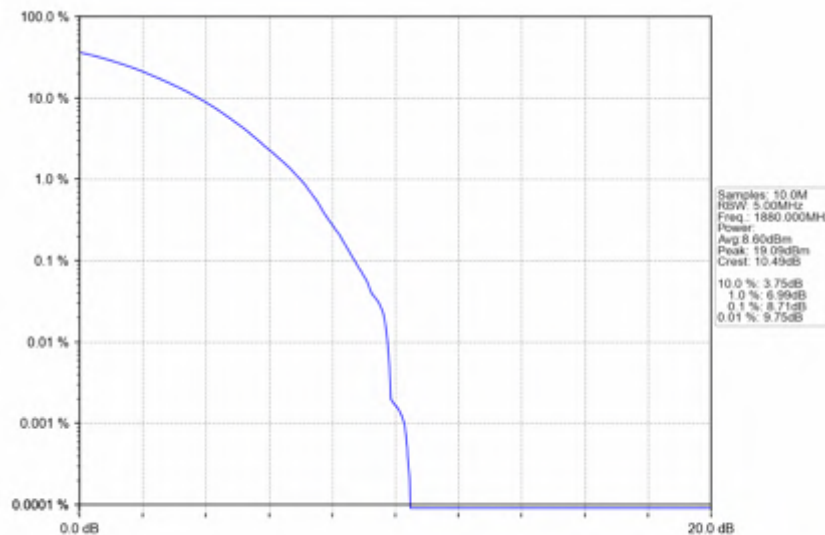


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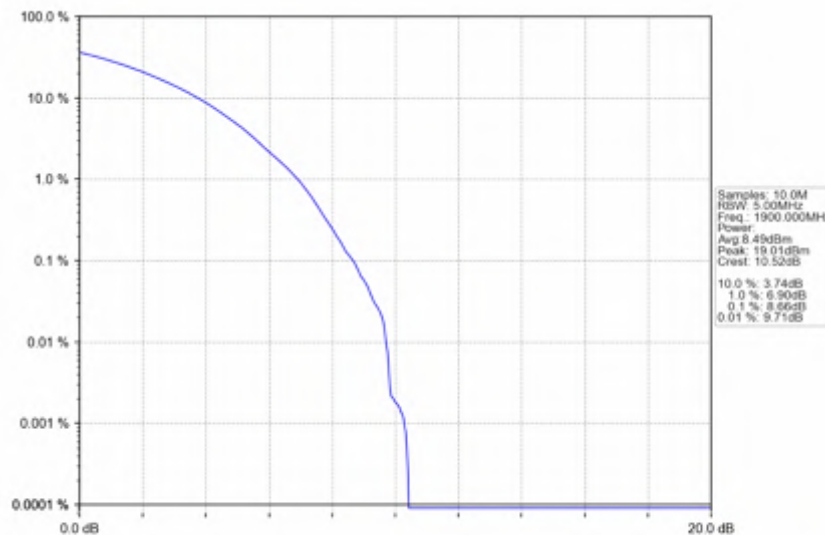
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n2_15kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_1900MHz_Outer_Full



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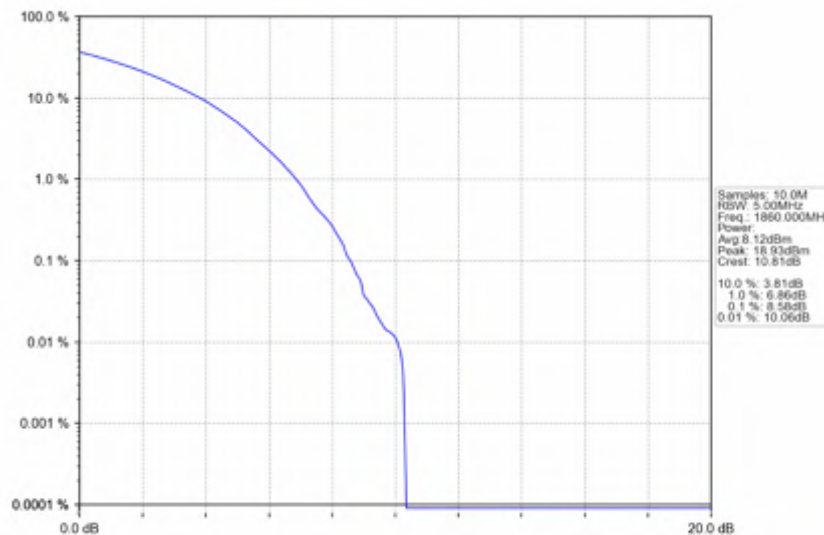
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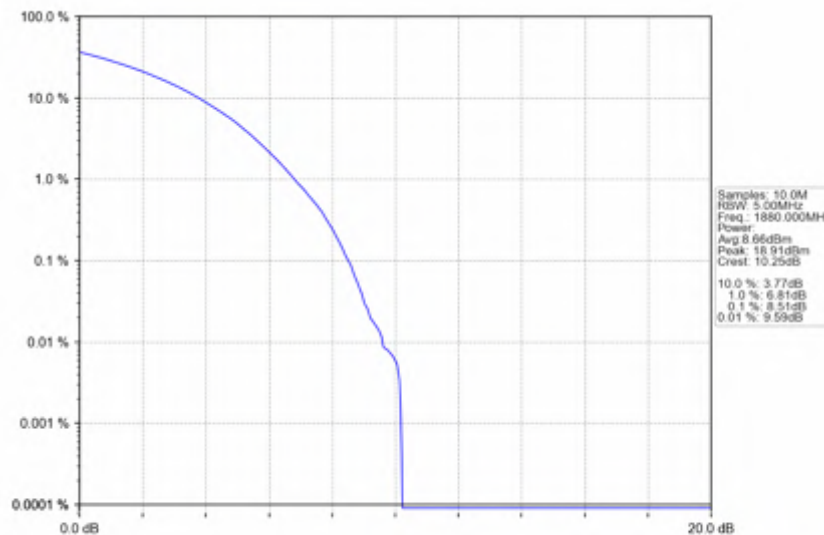
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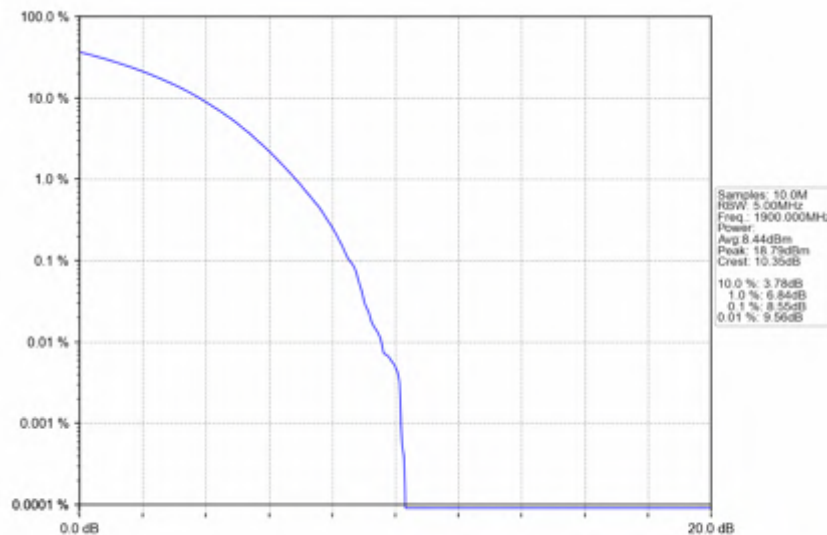
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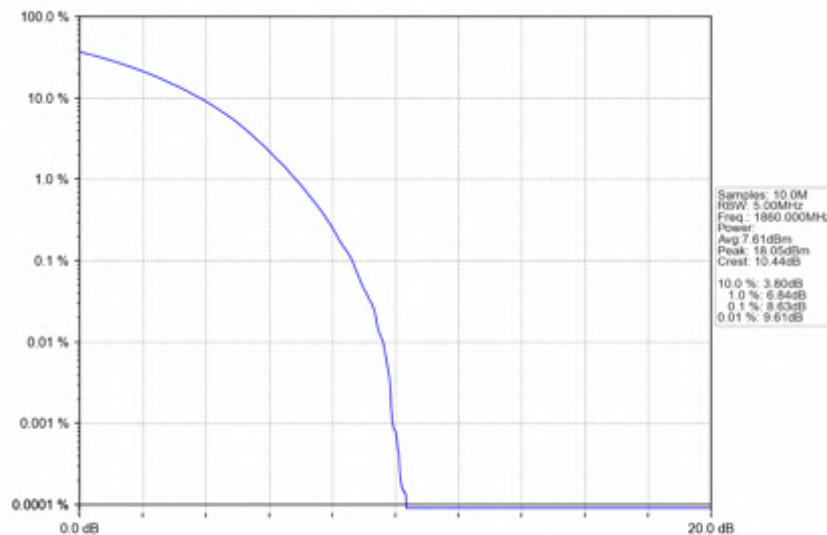
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n2_15kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_1900MHz_Outer_Full



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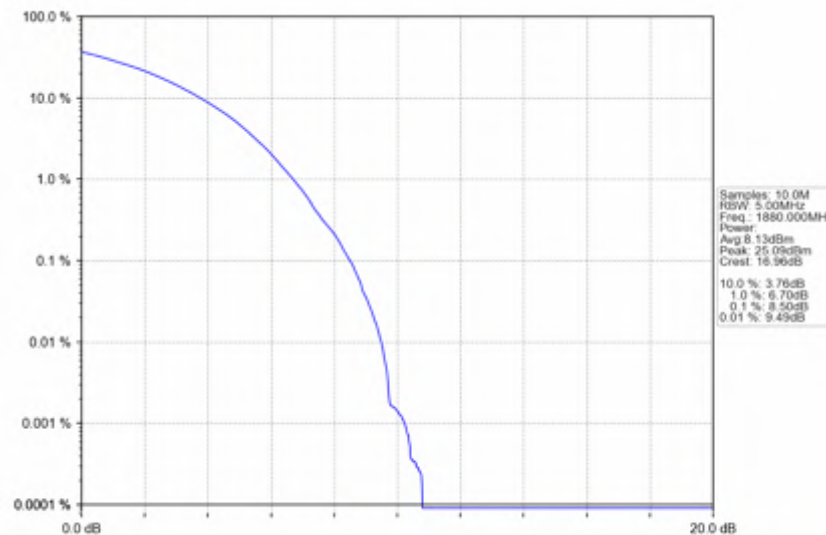
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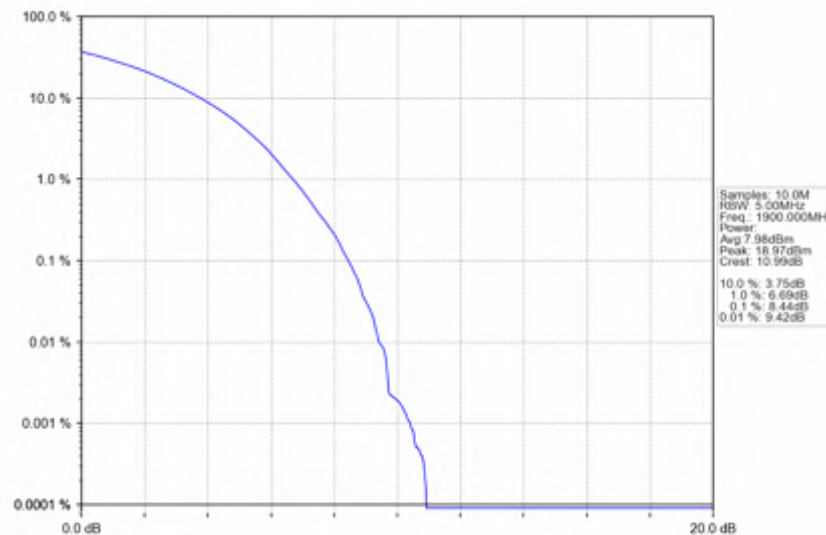
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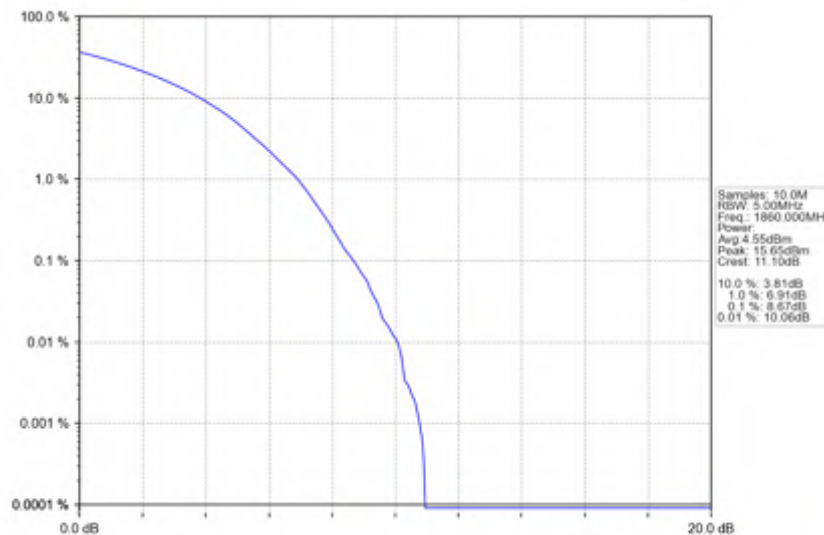
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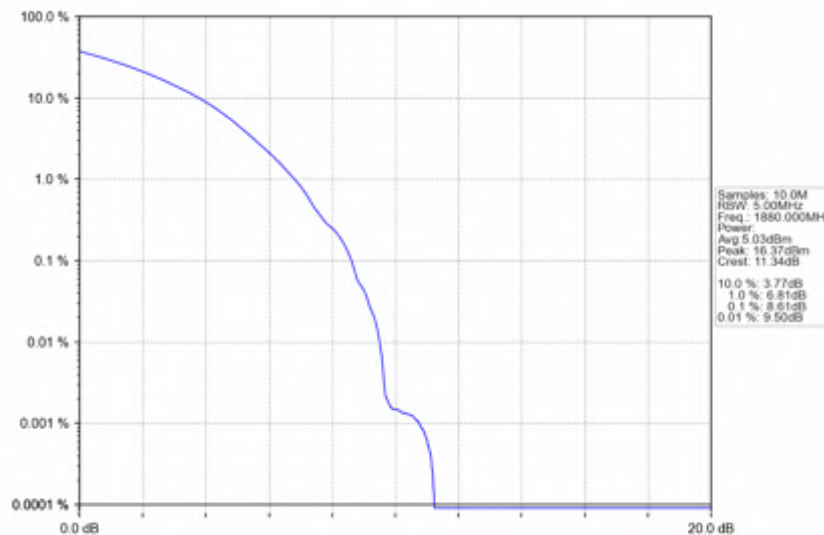
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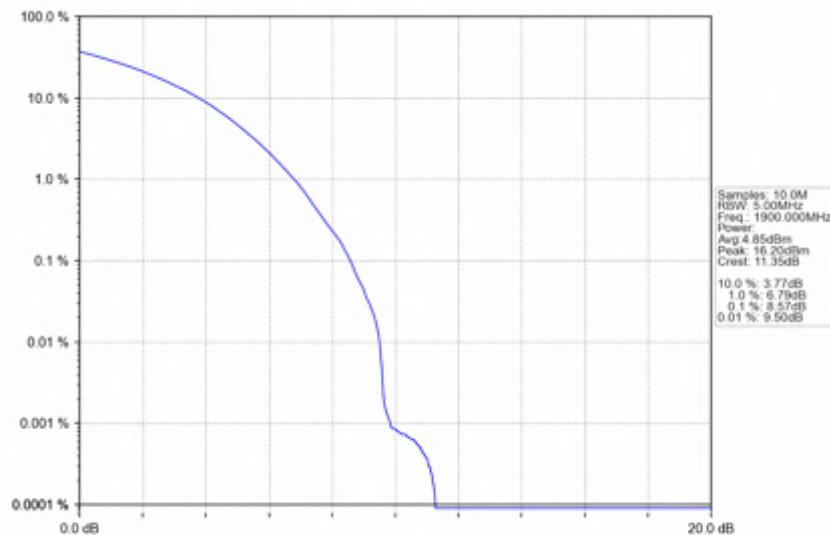


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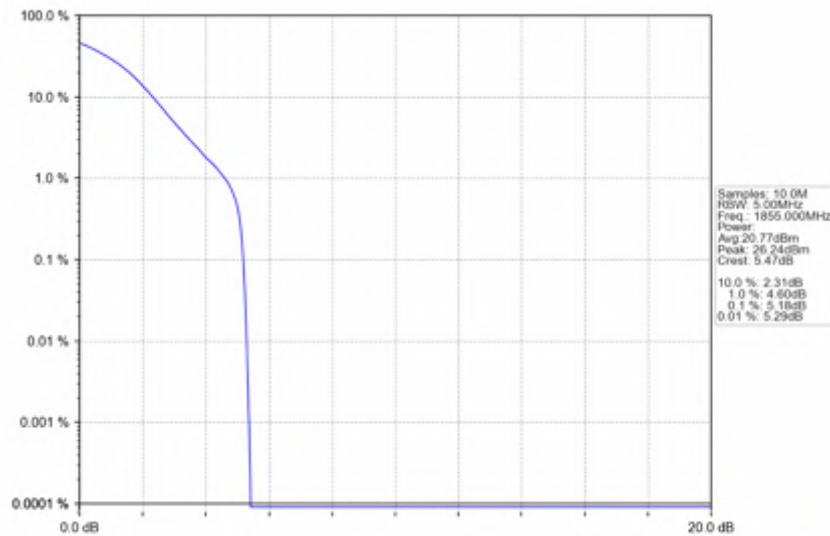
1.5 30k_SISO_10MHz_NTNV

1.5.1 Test Result

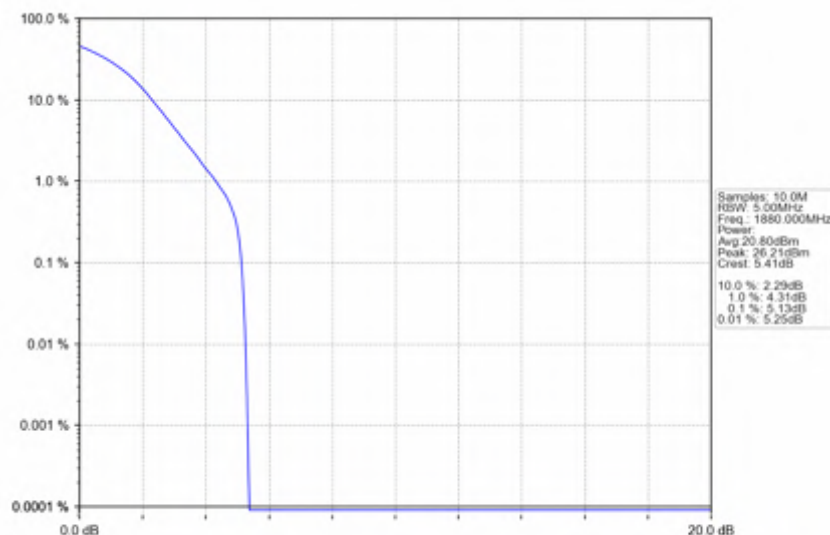
5G NR n2 SCS=30kHz SISO 10MHz NTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	1855	Outer_Full	5.18	/	/	<=13	Pass
	1880	Outer_Full	5.13	/	/	<=13	Pass
	1905	Outer_Full	5.12	/	/	<=13	Pass
DFT-s-OFDM QPSK	1855	Outer_Full	5.46	/	/	<=13	Pass
	1880	Outer_Full	5.43	/	/	<=13	Pass
	1905	Outer_Full	5.41	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1855	Outer_Full	6.67	/	/	<=13	Pass
	1880	Outer_Full	6.52	/	/	<=13	Pass
	1905	Outer_Full	6.64	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1855	Outer_Full	6.88	/	/	<=13	Pass
	1880	Outer_Full	6.70	/	/	<=13	Pass
	1905	Outer_Full	6.83	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1855	Outer_Full	6.95	/	/	<=13	Pass
	1880	Outer_Full	6.87	/	/	<=13	Pass
	1905	Outer_Full	6.68	/	/	<=13	Pass
CP-OFDM QPSK	1855	Outer_Full	8.20	/	/	<=13	Pass
	1880	Outer_Full	8.11	/	/	<=13	Pass
	1905	Outer_Full	8.30	/	/	<=13	Pass
CP-OFDM 16 QAM	1855	Outer_Full	8.49	/	/	<=13	Pass
	1880	Outer_Full	8.33	/	/	<=13	Pass
	1905	Outer_Full	8.38	/	/	<=13	Pass
CP-OFDM 64 QAM	1855	Outer_Full	8.40	/	/	<=13	Pass
	1880	Outer_Full	8.37	/	/	<=13	Pass
	1905	Outer_Full	8.35	/	/	<=13	Pass
CP-OFDM 256 QAM	1855	Outer_Full	8.90	/	/	<=13	Pass
	1880	Outer_Full	8.80	/	/	<=13	Pass
	1905	Outer_Full	8.78	/	/	<=13	Pass

1.5.2 Test Graph

n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_1855MHz_Outer_Full



n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_1880MHz_Outer_Full



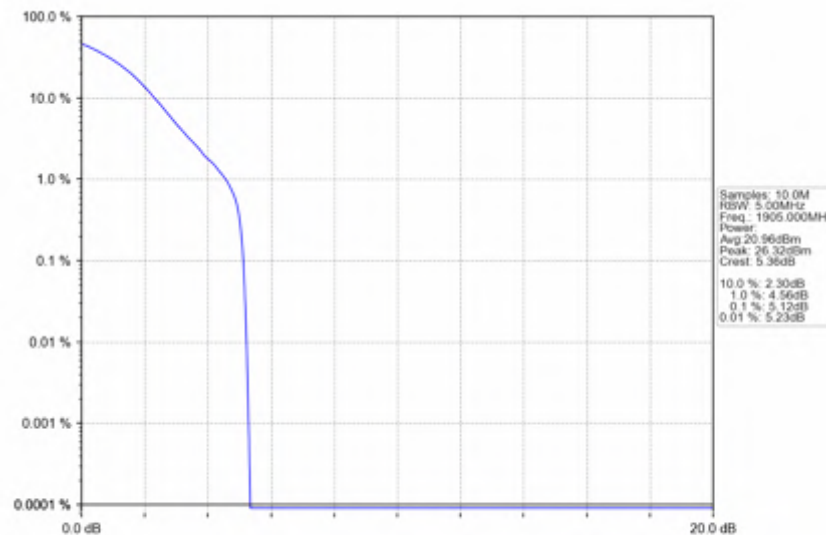
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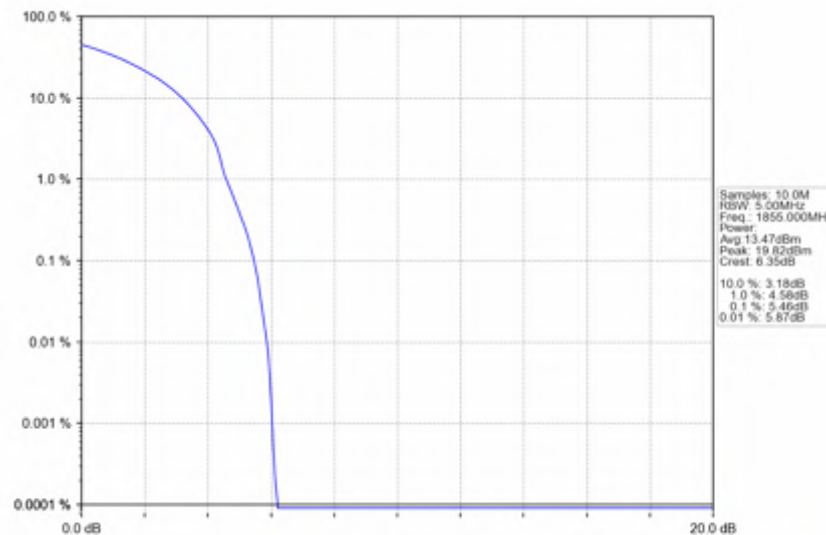
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n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1855MHz_Outer_Full

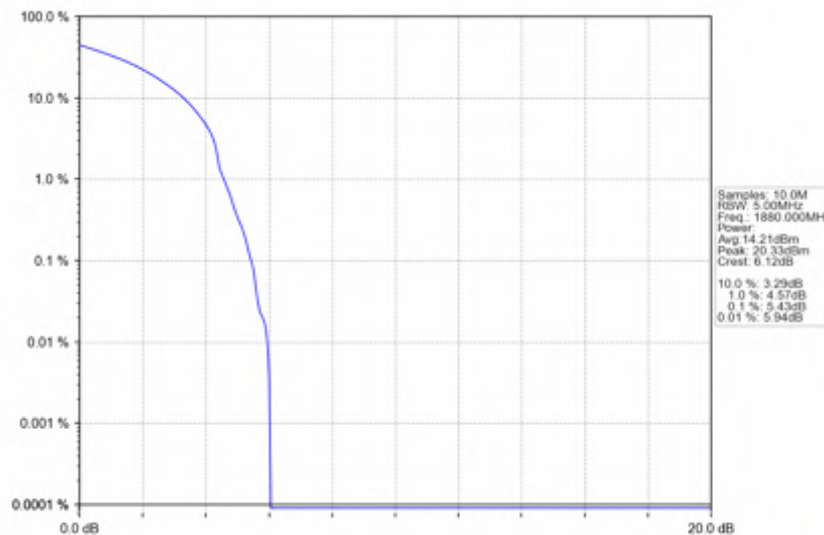


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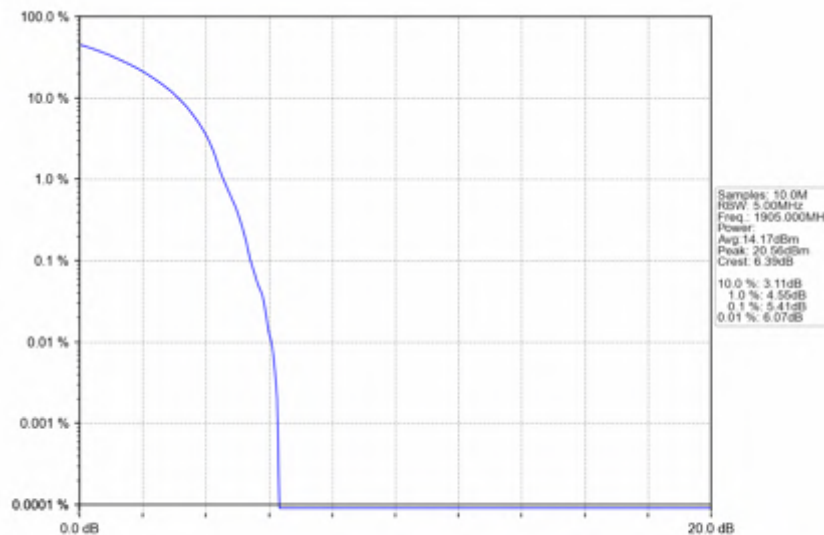
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n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_1880MHz_Outer_Full



n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_1905MHz_Outer_Full



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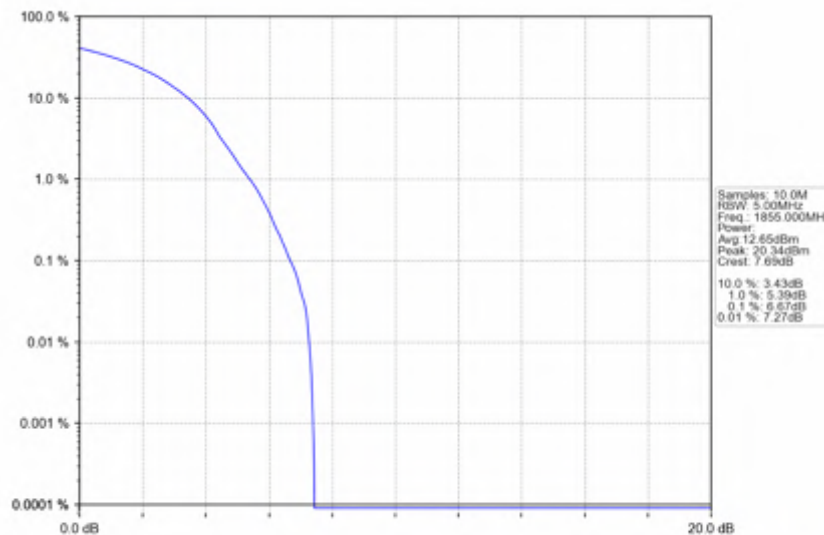
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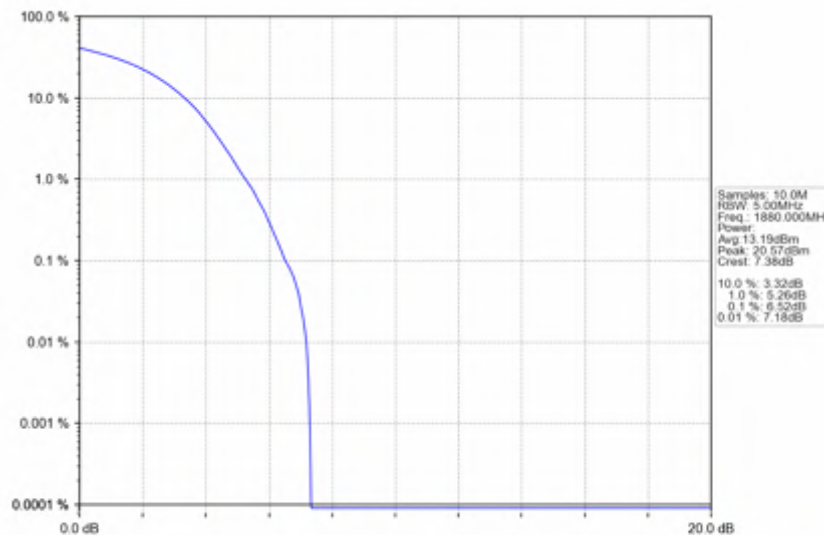
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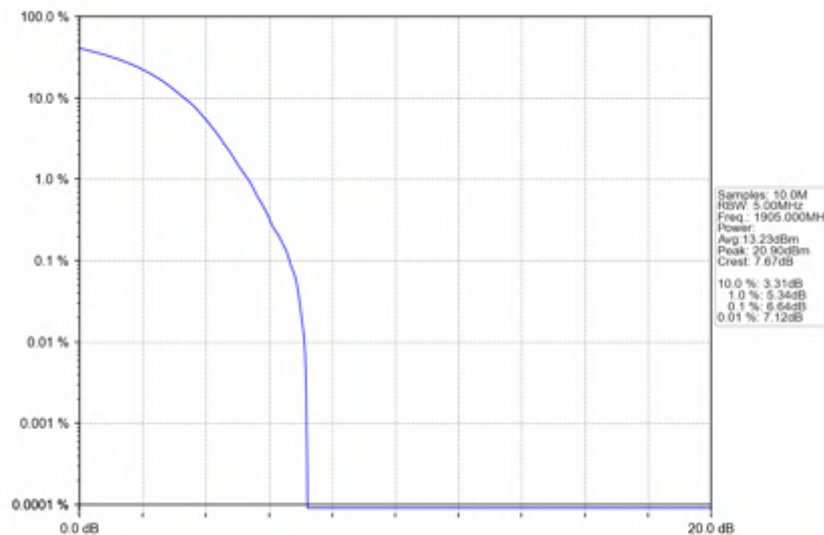


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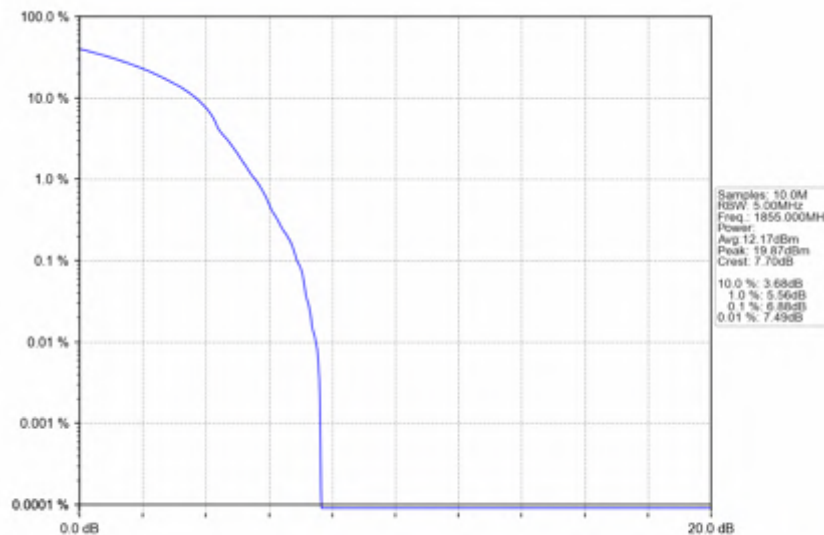
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n2_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_1855MHz_Outer_Full

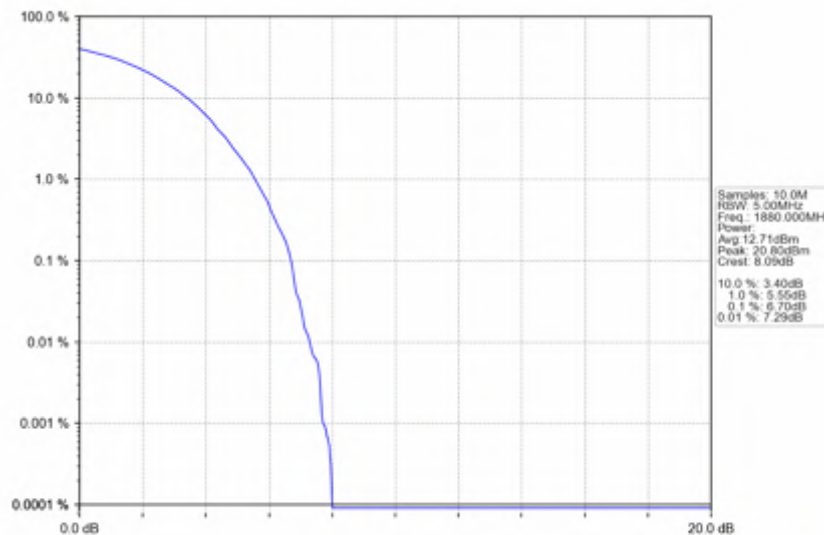


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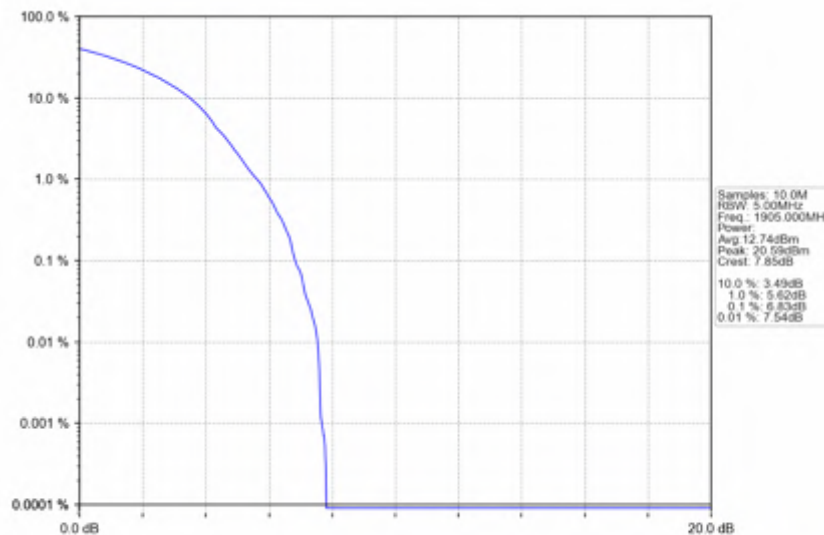
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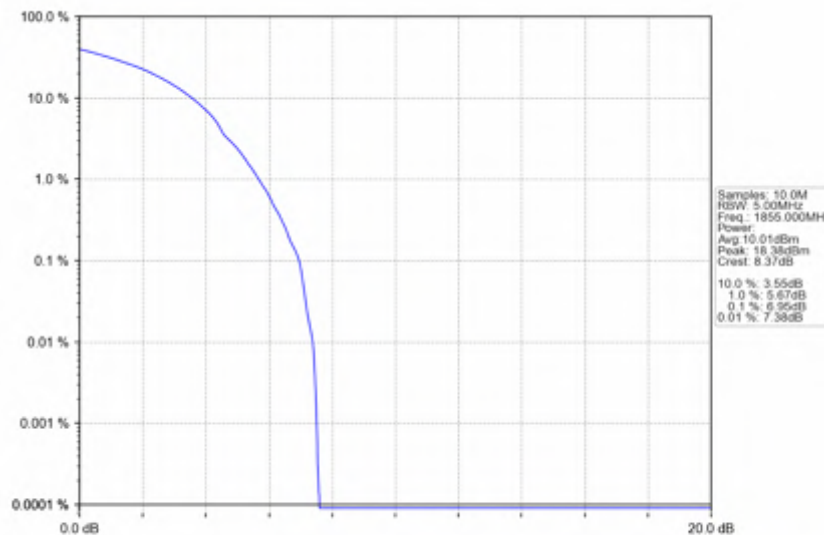
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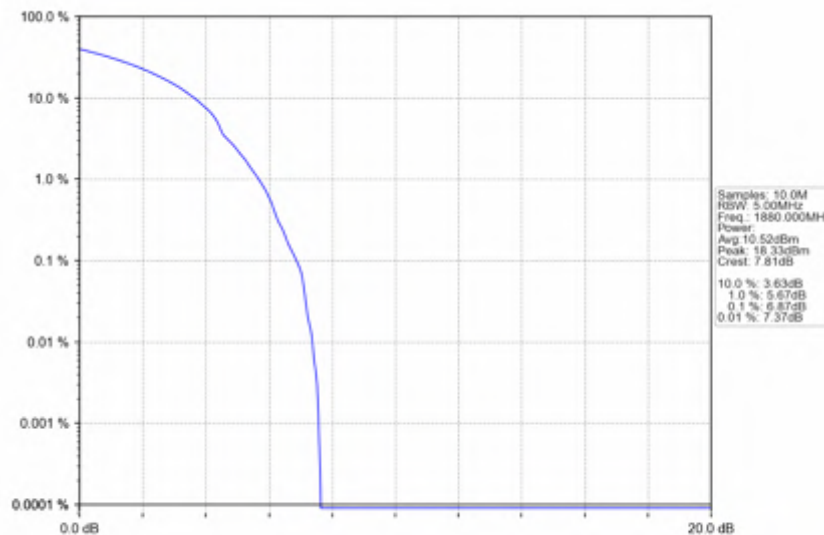
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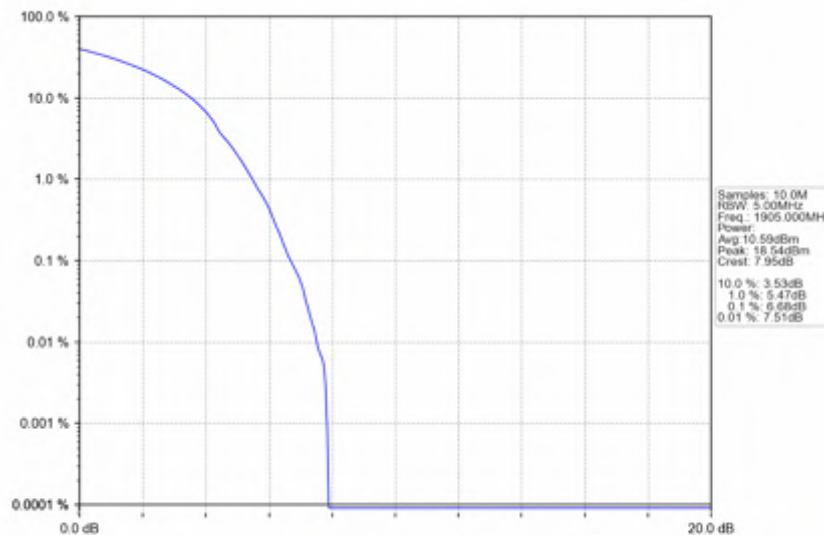
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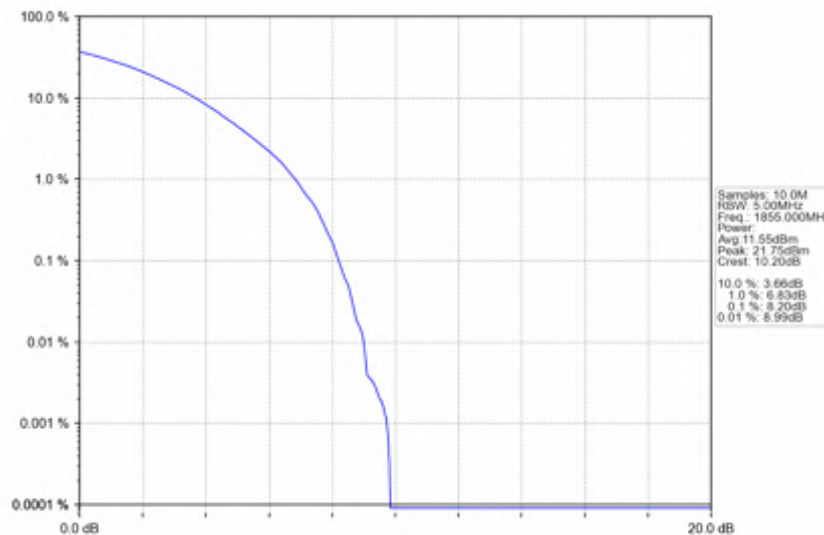
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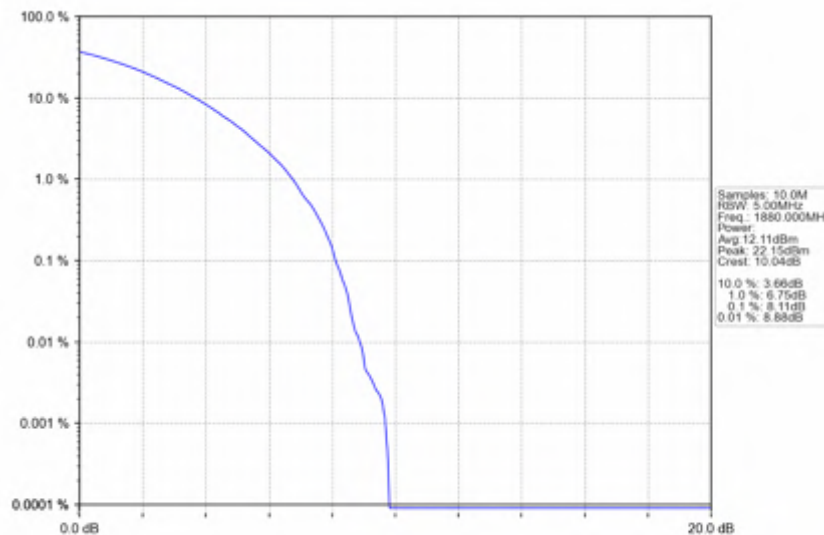


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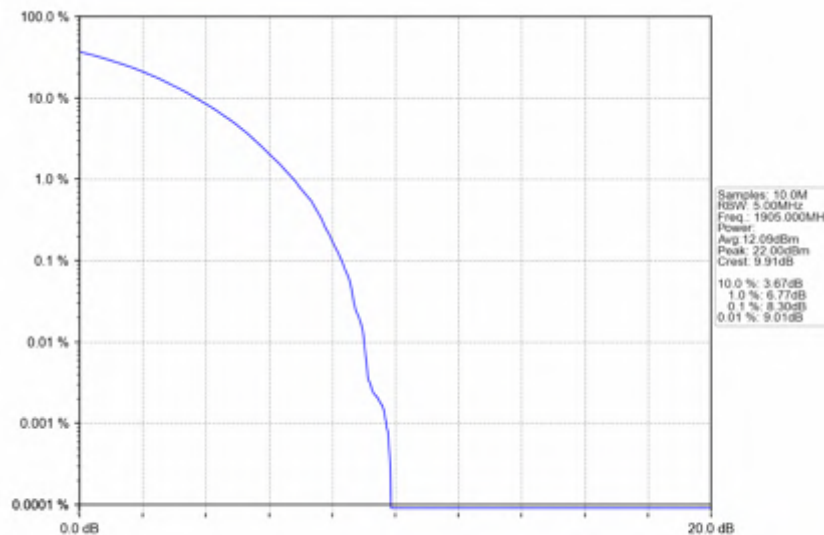
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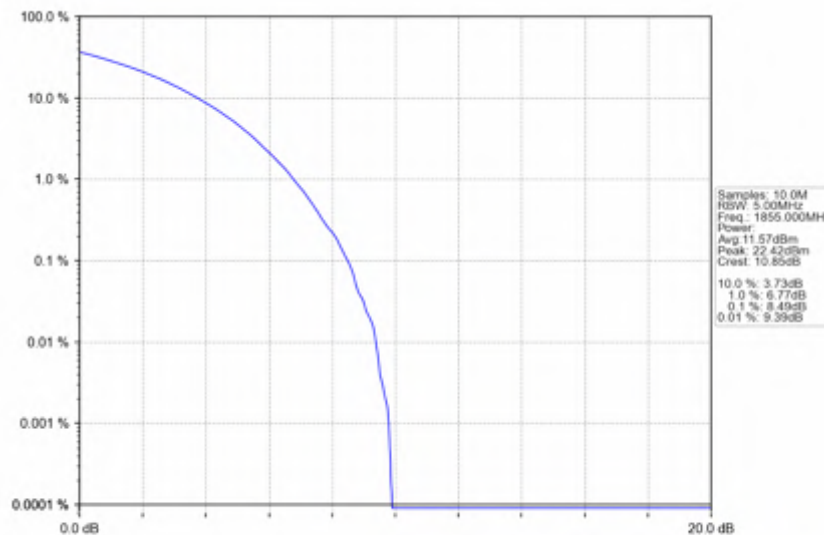


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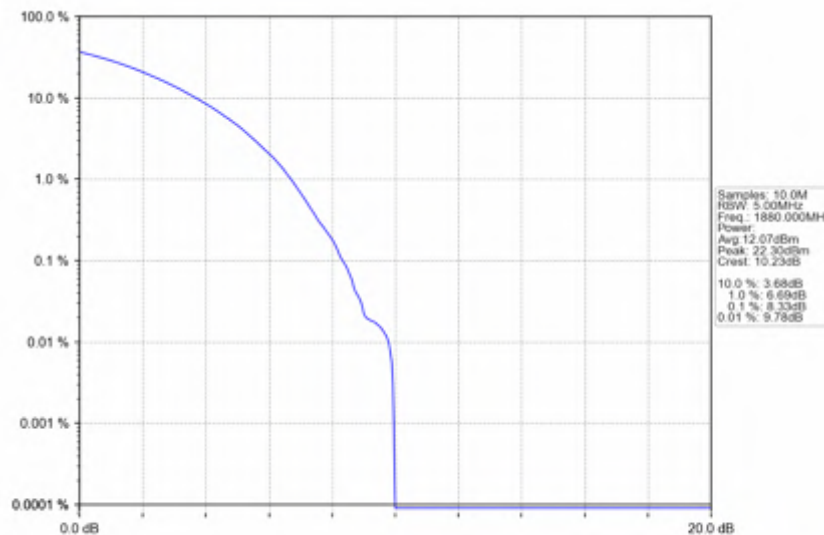
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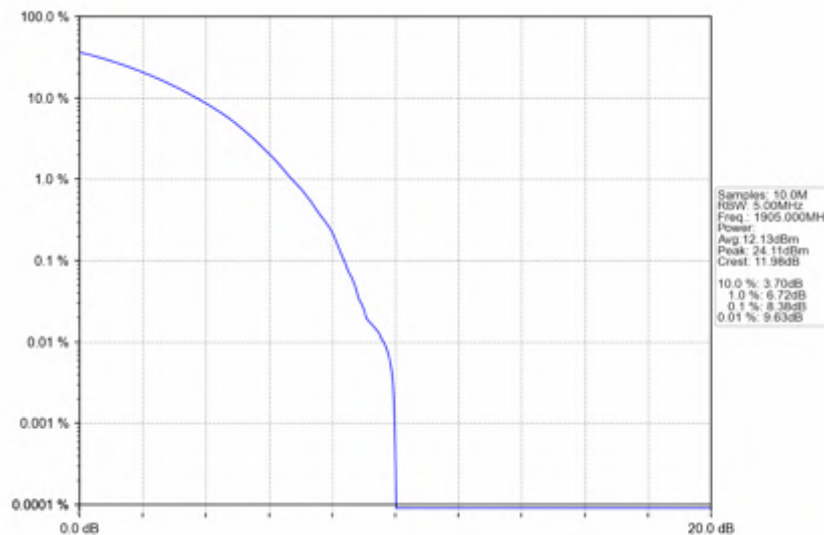
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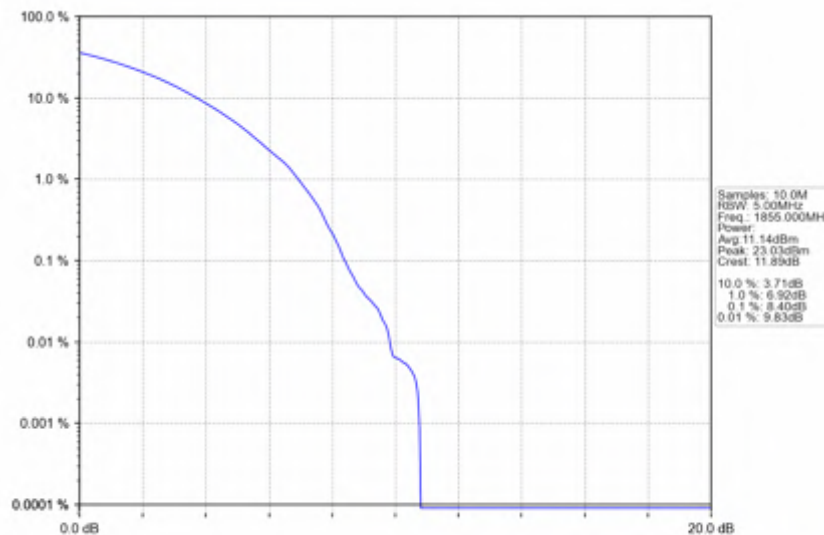
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n2_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_1855MHz_Outer_Full

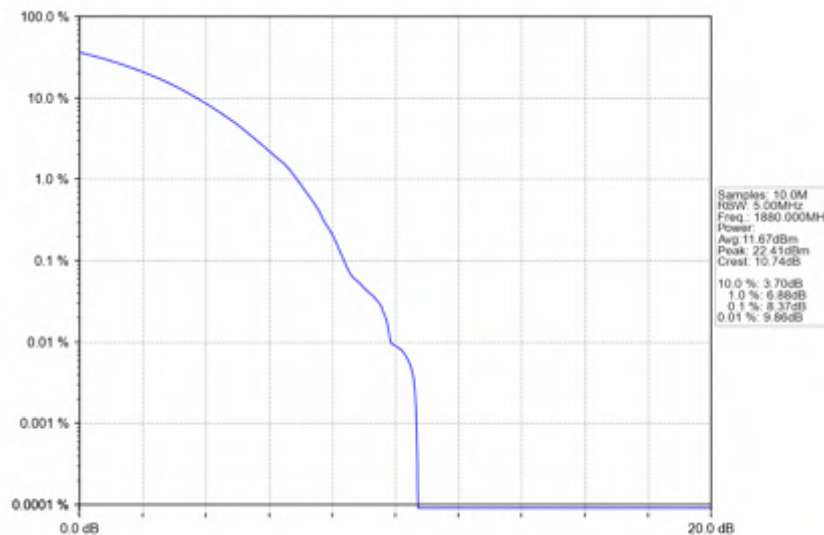


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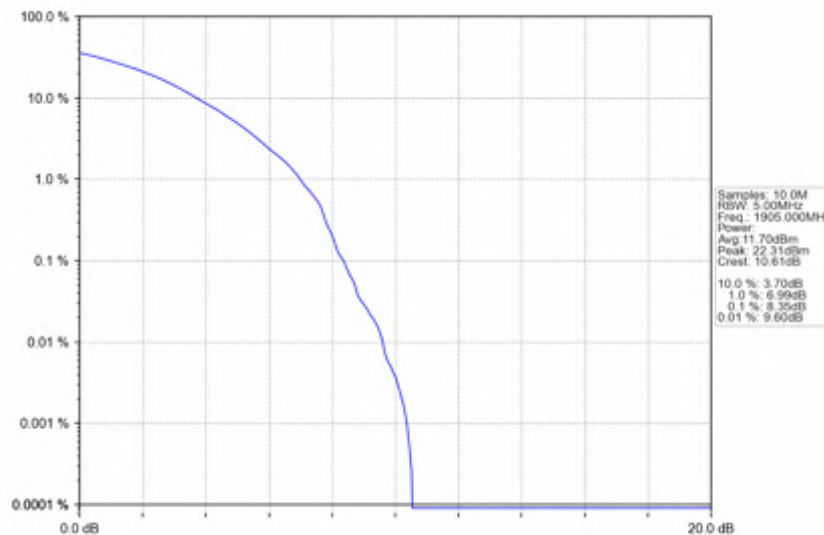
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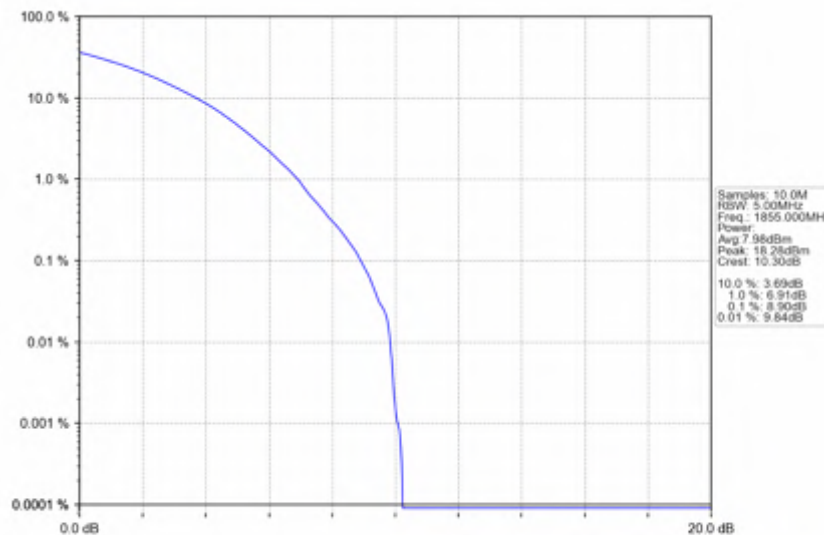
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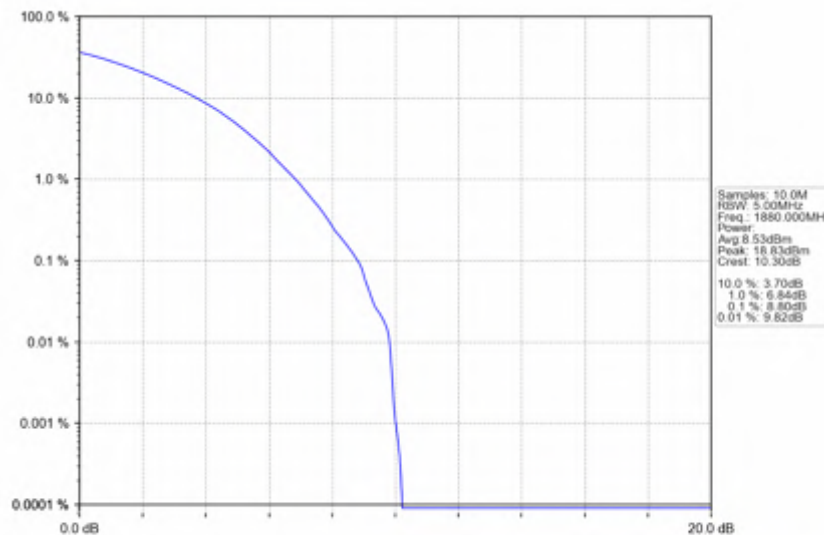
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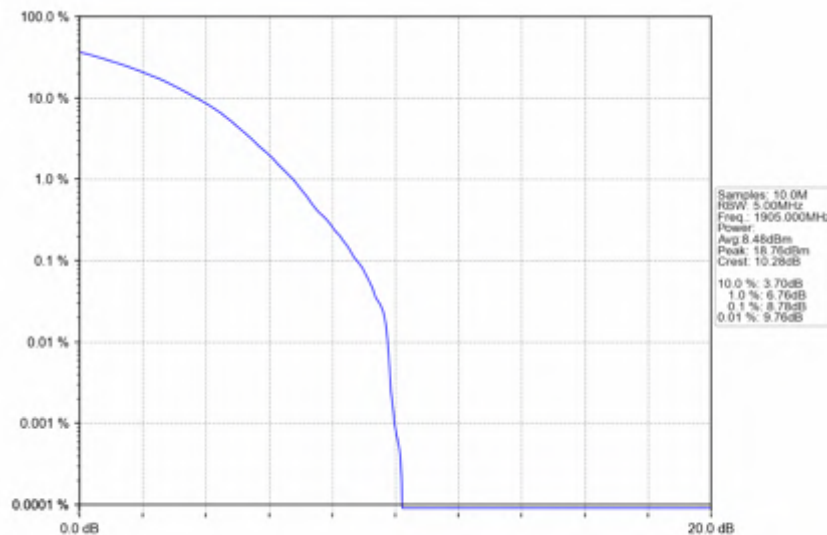
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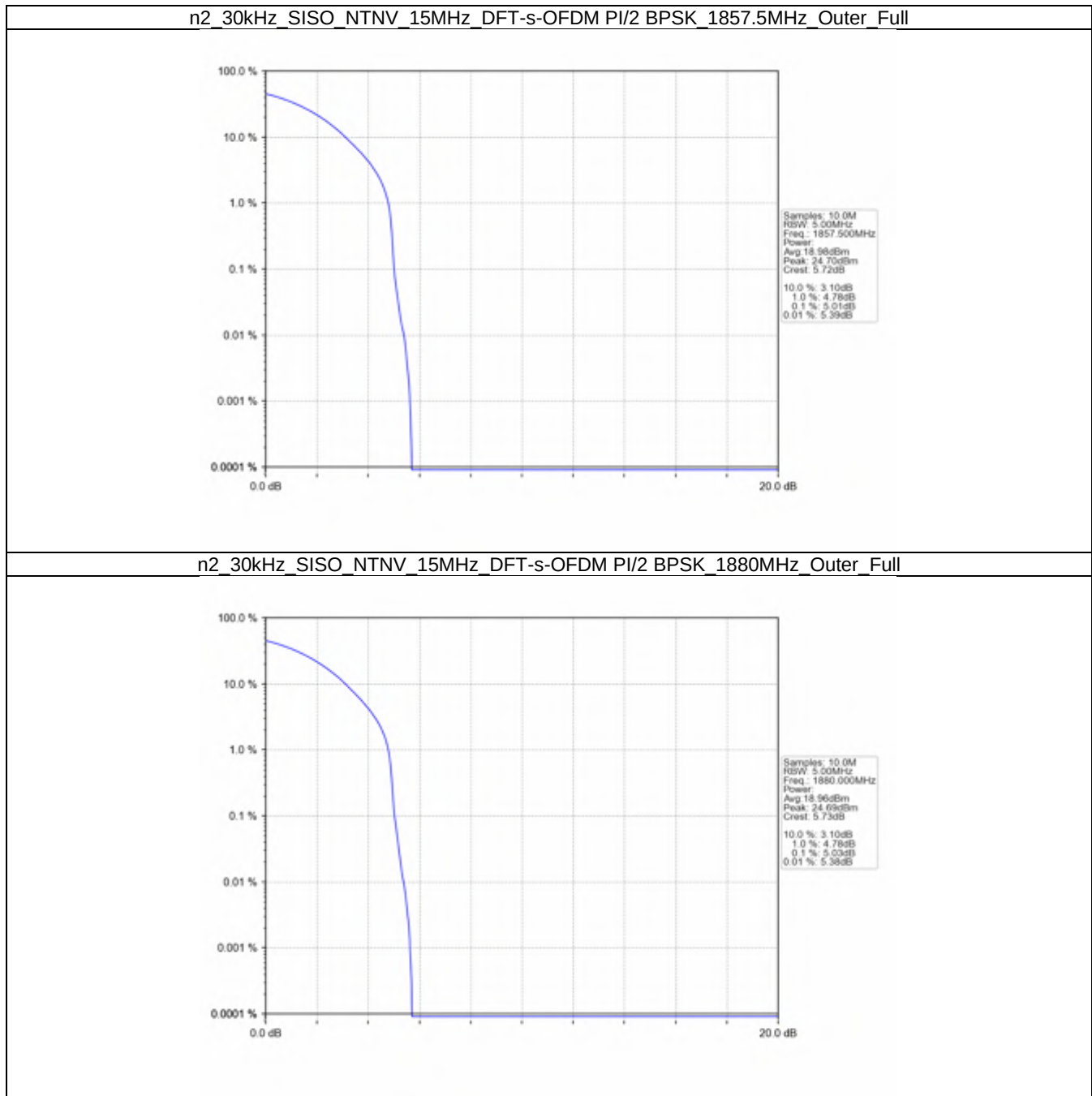
1.6 30k_SISO_15MHz_NTNV

1.6.1 Test Result

5G NR n2 SCS=30kHz SISO 15MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	1857.5	Outer_Full	5.01	/	/	<=13	Pass
	1880	Outer_Full	5.03	/	/	<=13	Pass
	1902.5	Outer_Full	5.10	/	/	<=13	Pass
DFT-s-OFDM QPSK	1857.5	Outer_Full	6.14	/	/	<=13	Pass
	1880	Outer_Full	6.17	/	/	<=13	Pass
	1902.5	Outer_Full	6.10	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1857.5	Outer_Full	6.91	/	/	<=13	Pass
	1880	Outer_Full	6.81	/	/	<=13	Pass
	1902.5	Outer_Full	6.90	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1857.5	Outer_Full	7.22	/	/	<=13	Pass
	1880	Outer_Full	7.43	/	/	<=13	Pass
	1902.5	Outer_Full	7.30	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1857.5	Outer_Full	7.34	/	/	<=13	Pass
	1880	Outer_Full	7.30	/	/	<=13	Pass
	1902.5	Outer_Full	7.29	/	/	<=13	Pass
CP-OFDM QPSK	1857.5	Outer_Full	8.37	/	/	<=13	Pass
	1880	Outer_Full	8.38	/	/	<=13	Pass
	1902.5	Outer_Full	8.40	/	/	<=13	Pass
CP-OFDM 16 QAM	1857.5	Outer_Full	8.65	/	/	<=13	Pass
	1880	Outer_Full	8.57	/	/	<=13	Pass
	1902.5	Outer_Full	8.62	/	/	<=13	Pass
CP-OFDM 64 QAM	1857.5	Outer_Full	8.56	/	/	<=13	Pass
	1880	Outer_Full	8.43	/	/	<=13	Pass
	1902.5	Outer_Full	8.38	/	/	<=13	Pass
CP-OFDM 256 QAM	1857.5	Outer_Full	8.67	/	/	<=13	Pass
	1880	Outer_Full	8.73	/	/	<=13	Pass
	1902.5	Outer_Full	8.77	/	/	<=13	Pass



1.6.2 Test Graph



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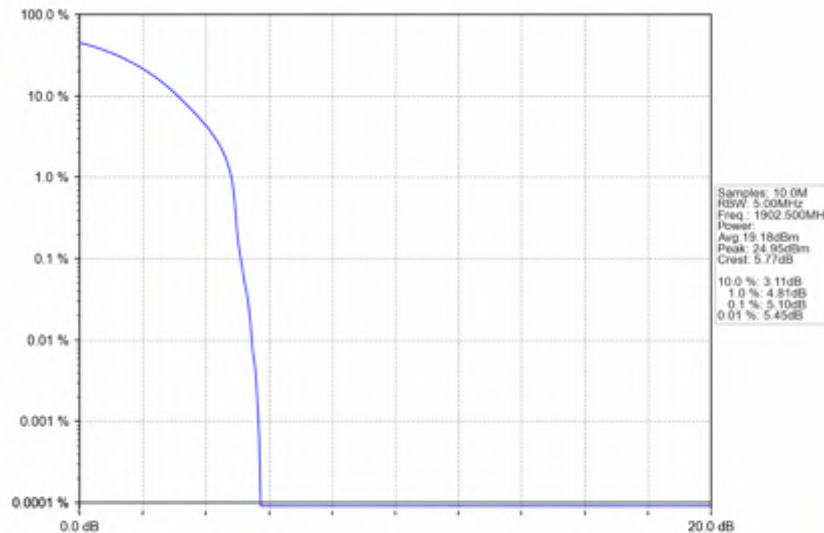
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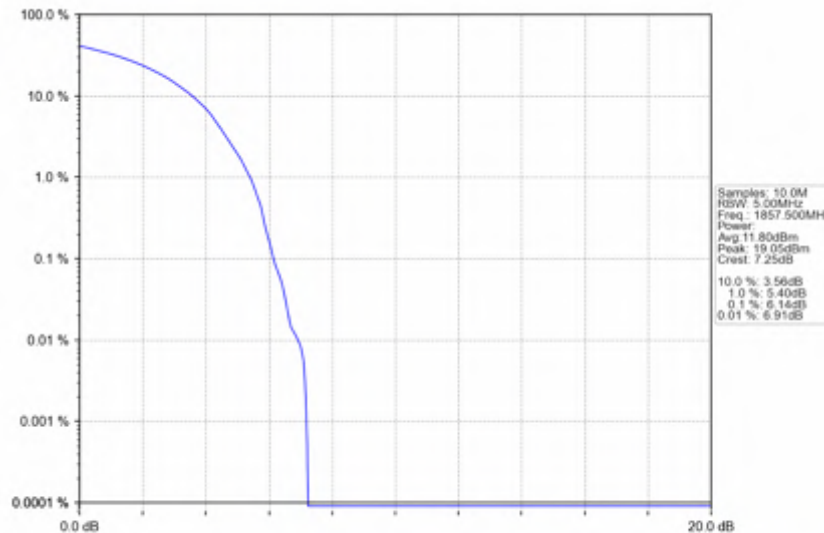
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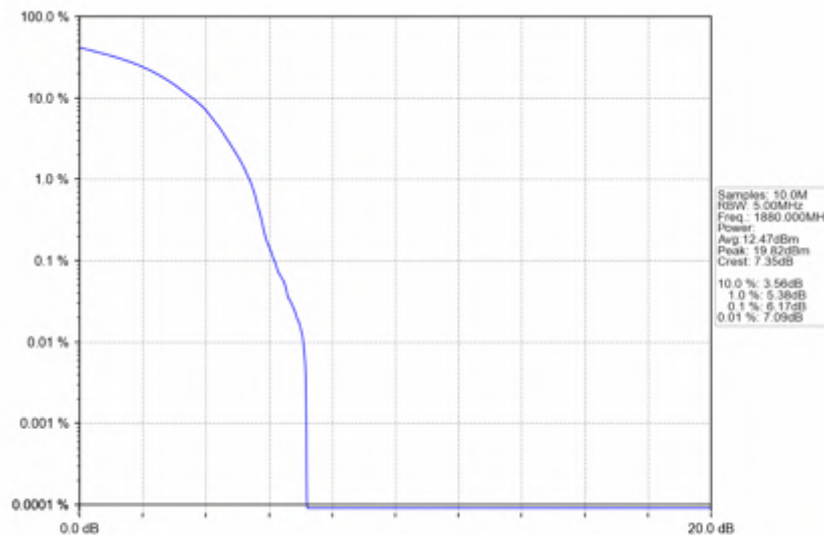


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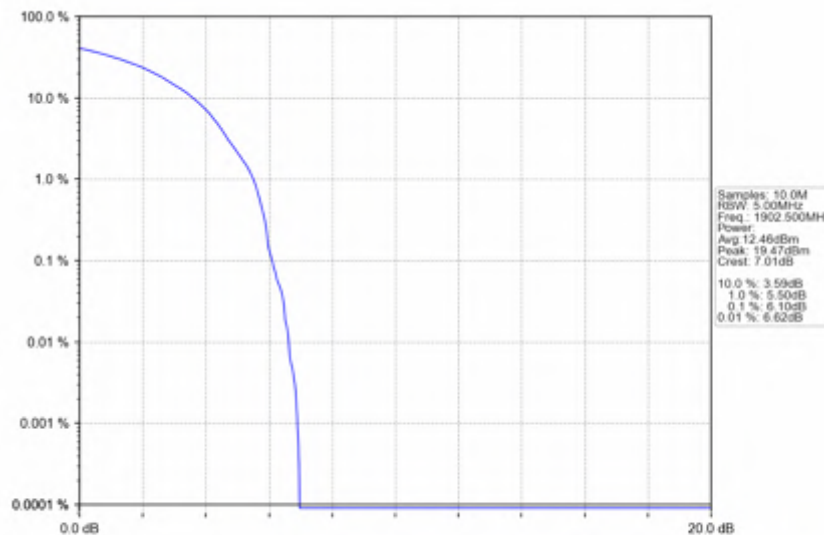
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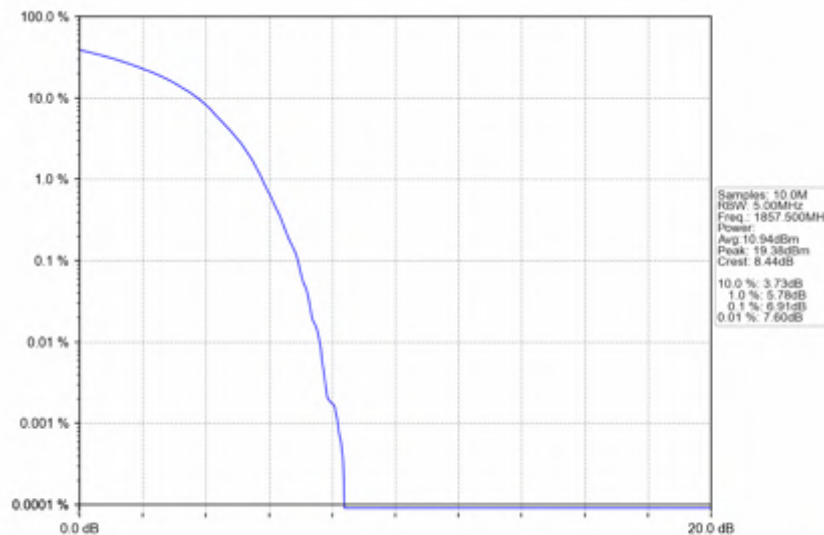
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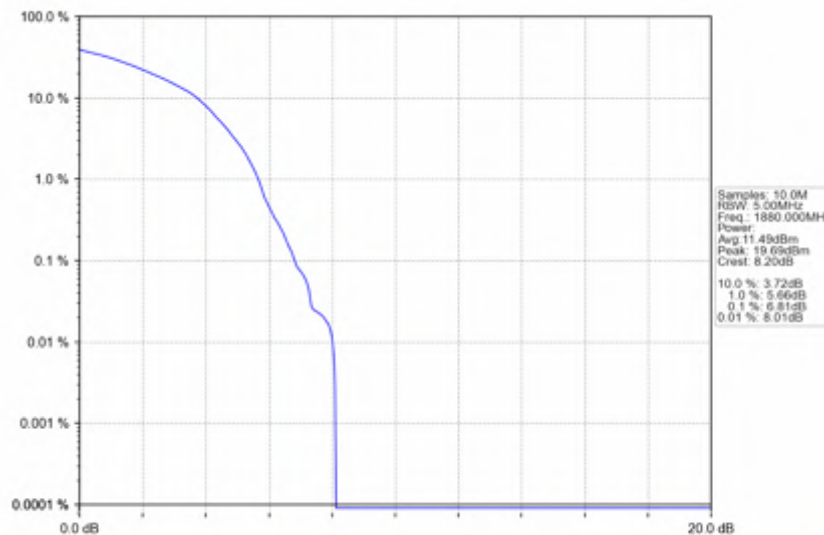
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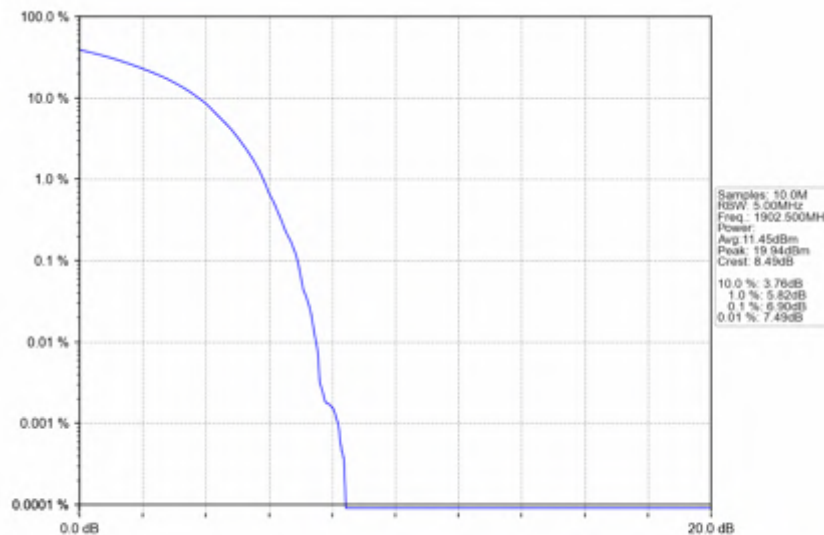
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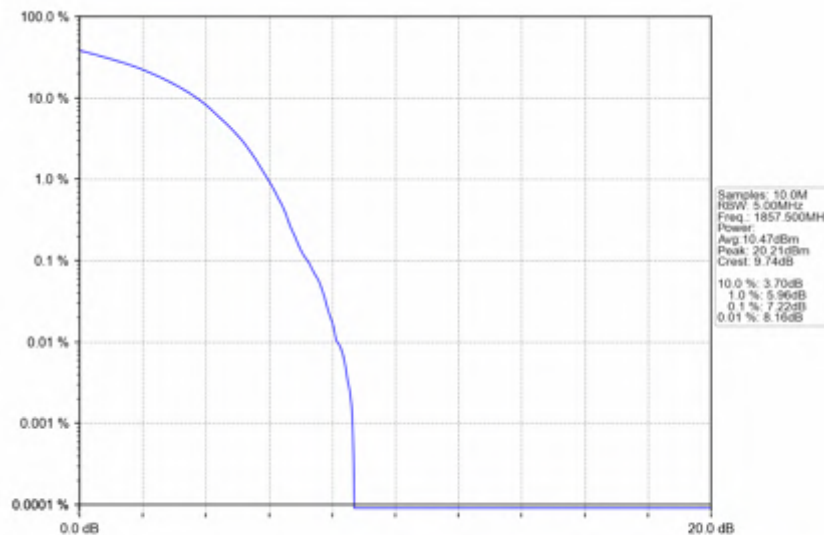
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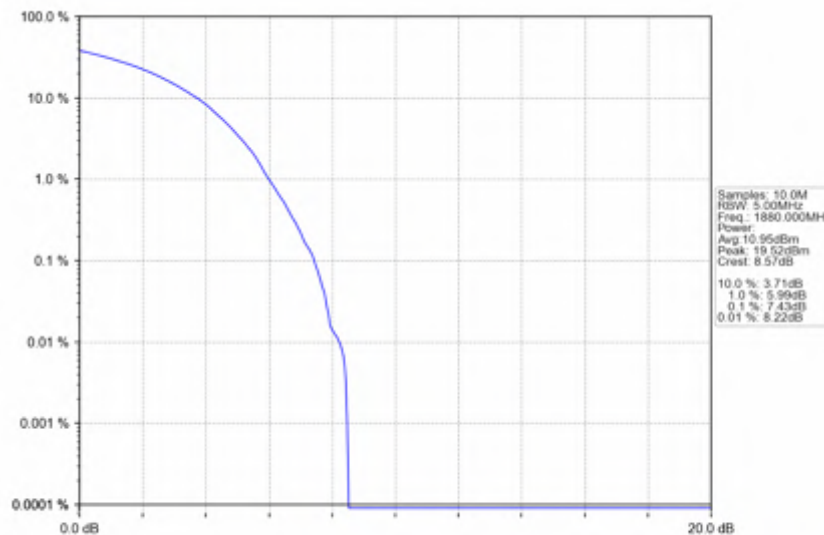
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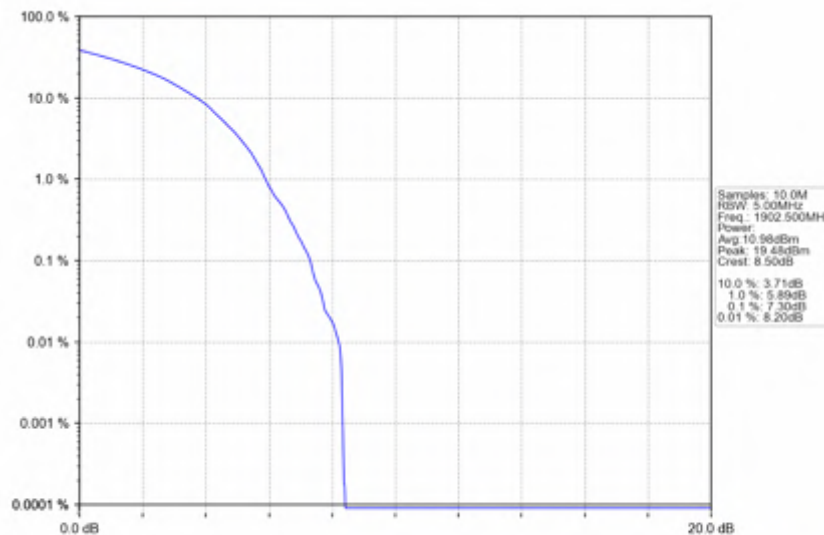
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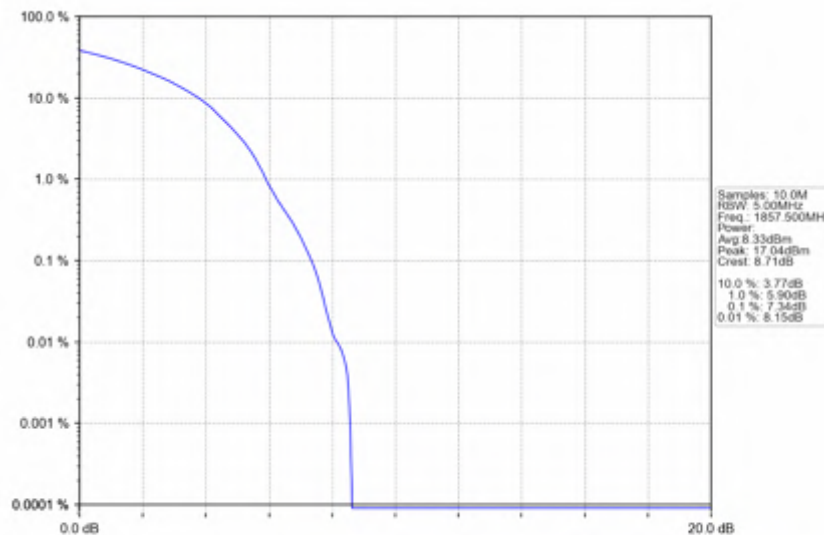


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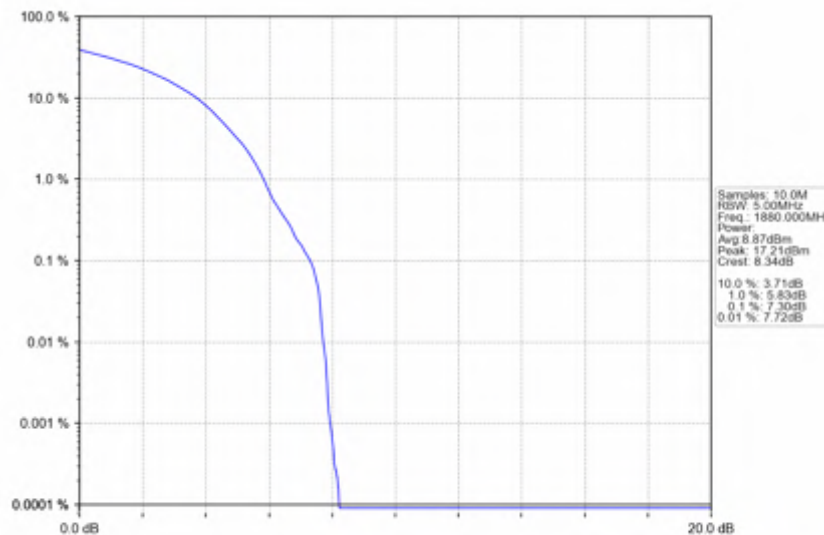
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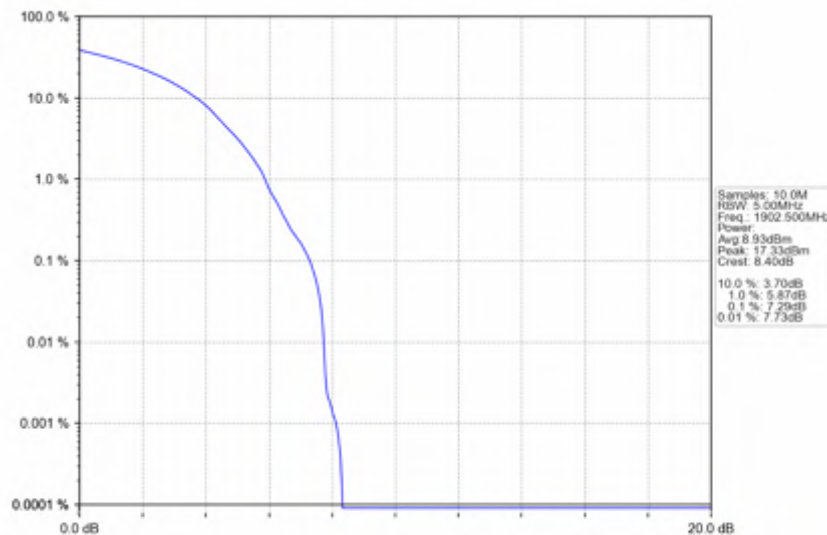
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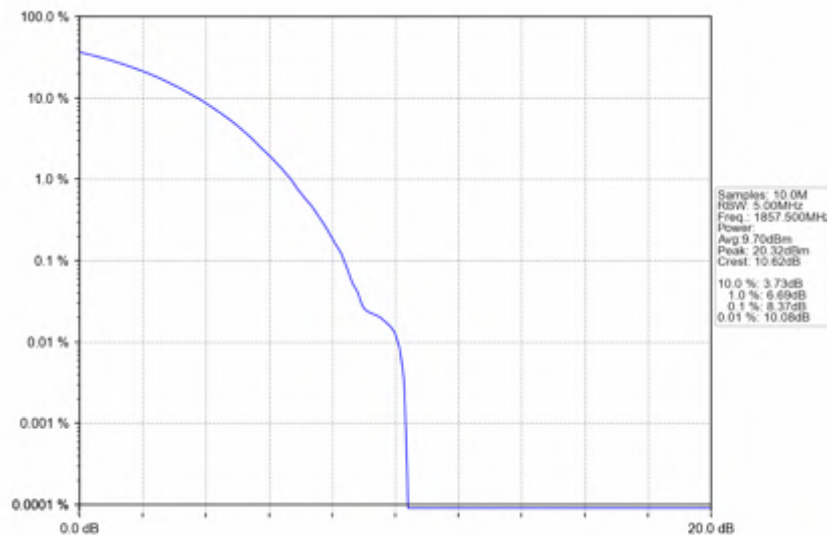
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n2_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1857.5MHz_Outer_Full



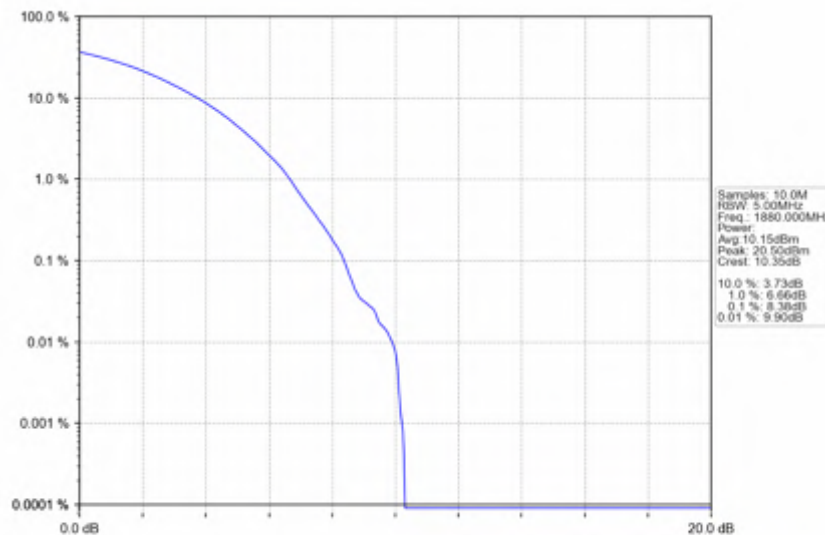
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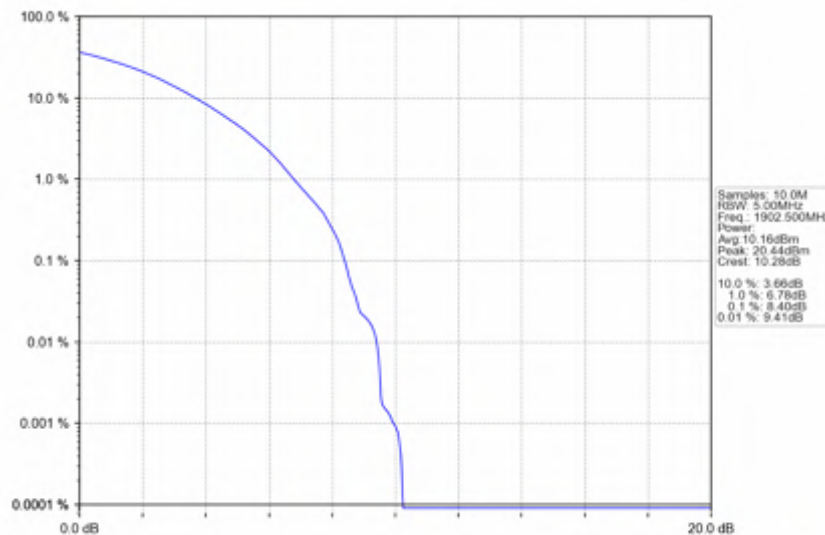
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n2_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1880MHz_Outer_Full



n2_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1902.5MHz_Outer_Full



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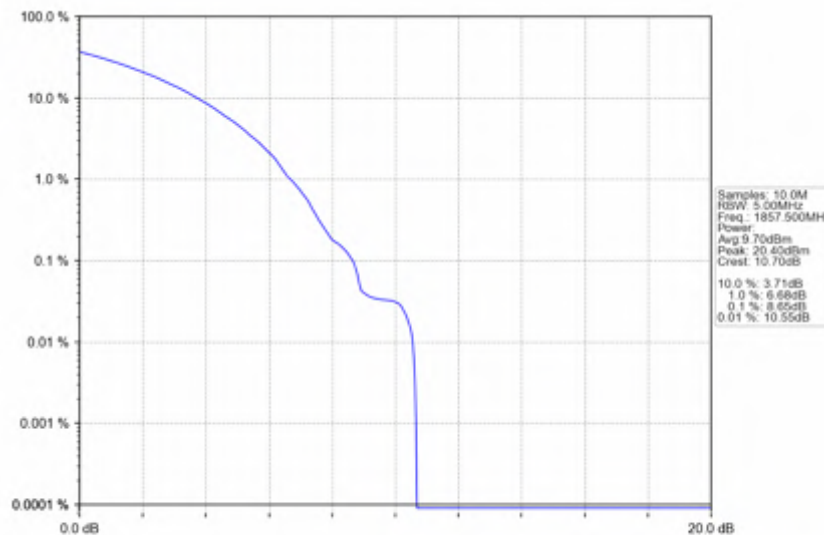
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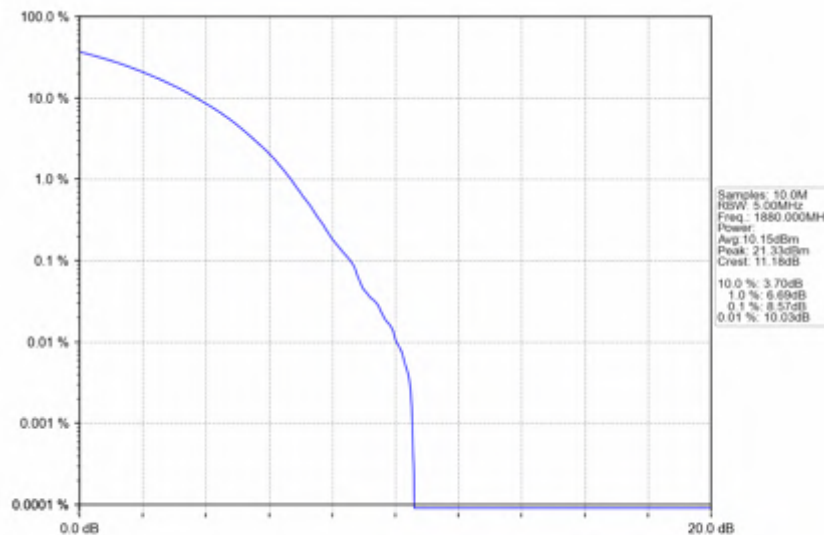
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n2_30kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_1857.5MHz_Outer_Full



n2_30kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_1880MHz_Outer_Full



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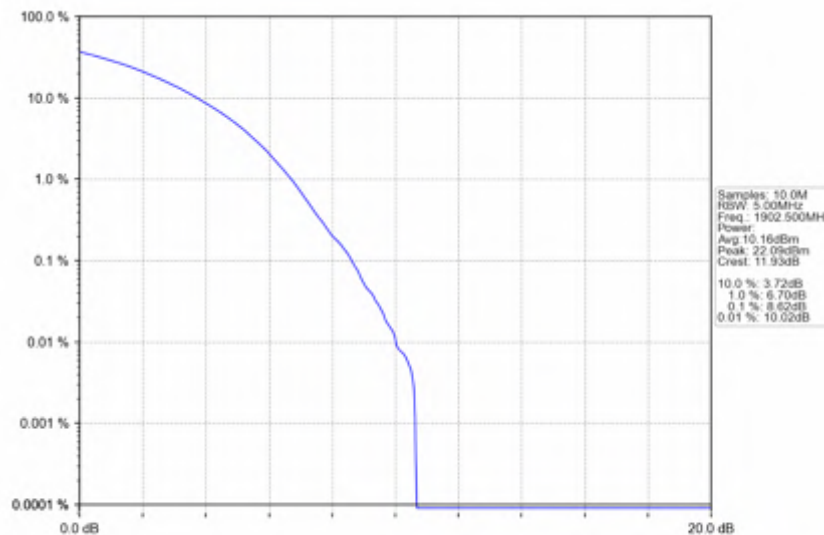
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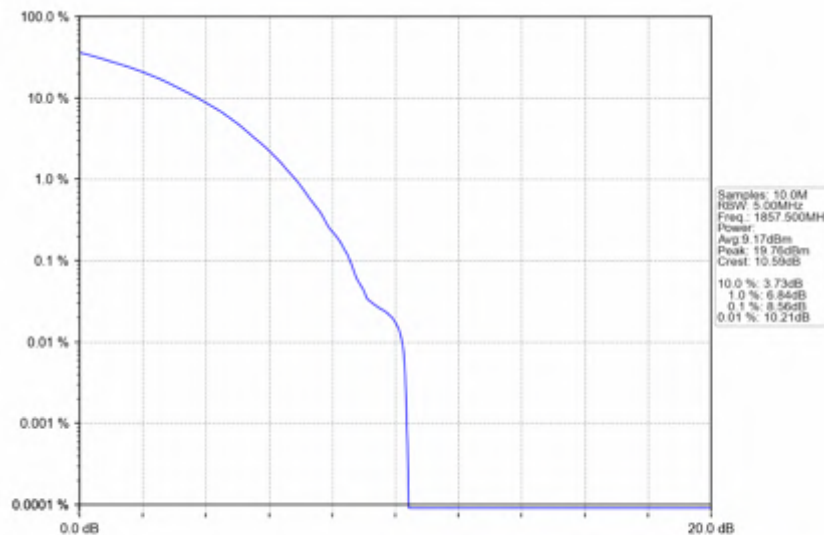
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n2_30kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_1902.5MHz_Outer_Full



n2_30kHz_SISO_NTNV_15MHz_CP-OFDM_64_QAM_1857.5MHz_Outer_Full

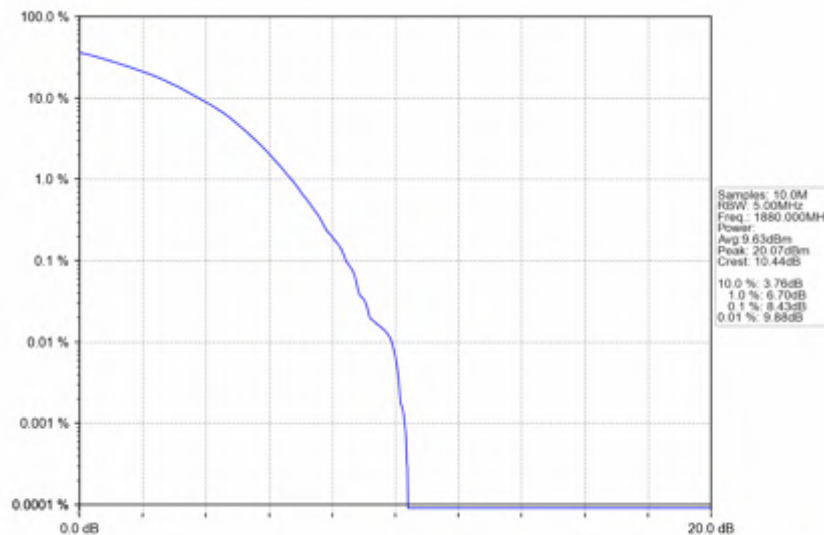


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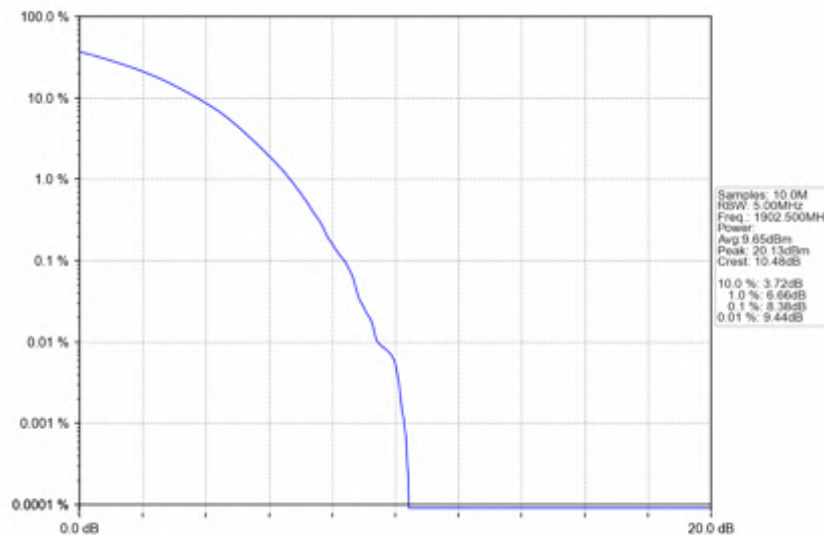
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n2_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_1902.5MHz_Outer_Full

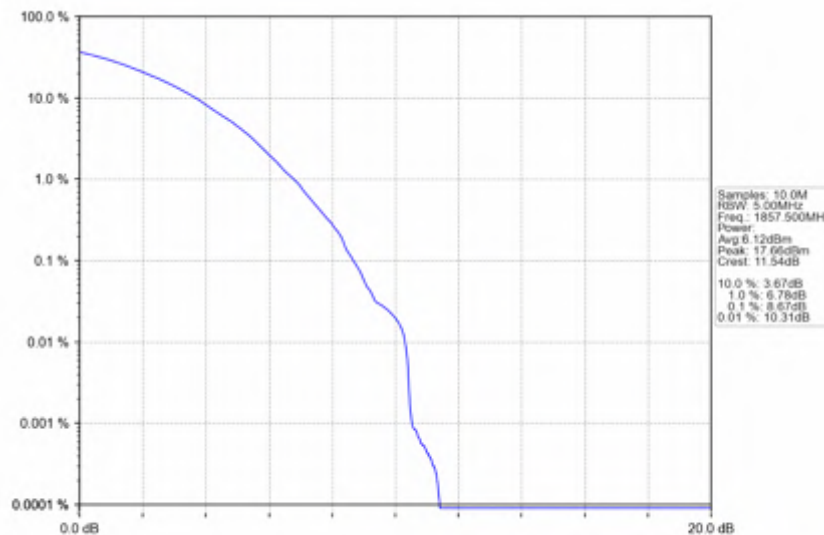


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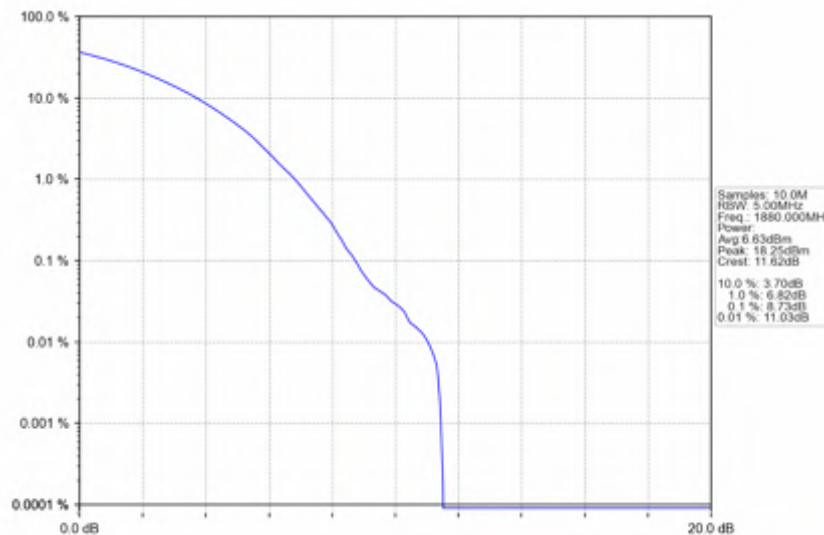
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n2_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_1880MHz_Outer_Full



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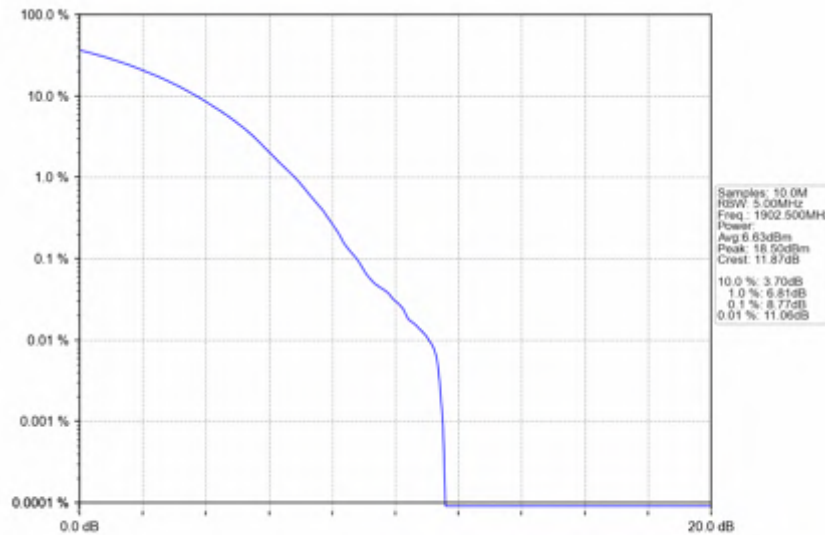
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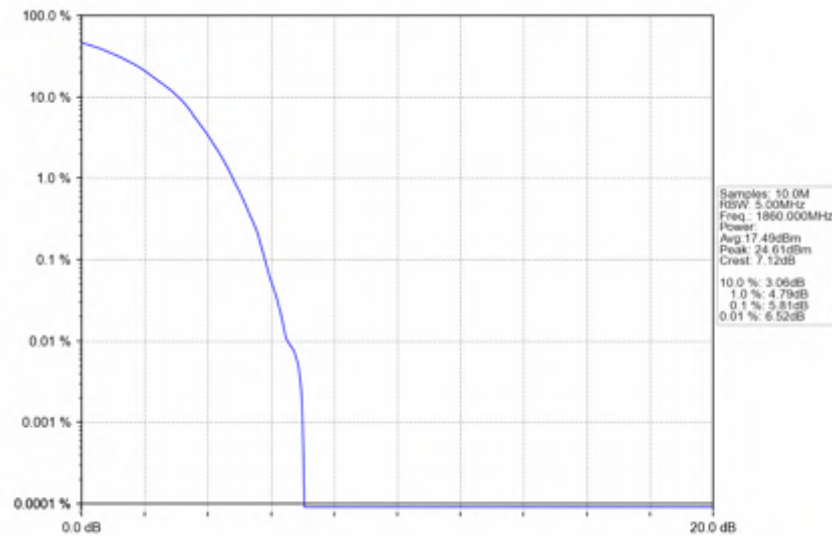
1.7 30k_SISO_20MHz_NTNV

1.7.1 Test Result

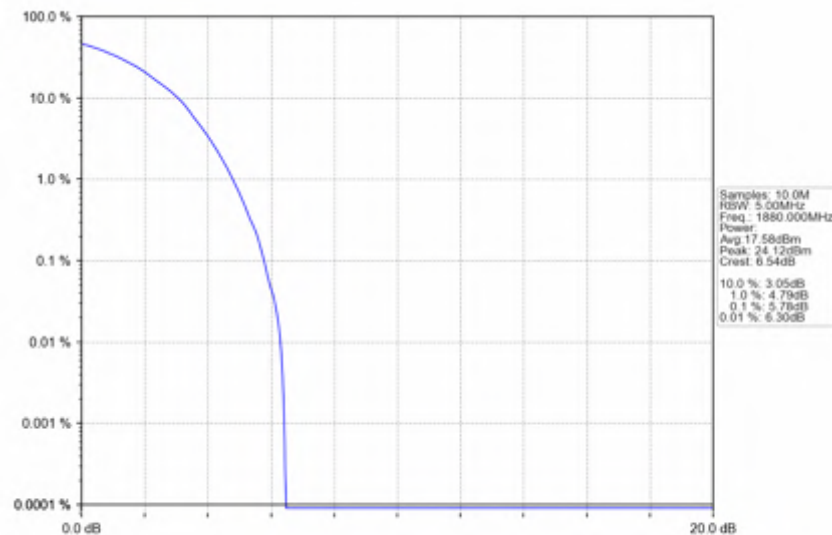
5G NR n2 SCS=30kHz SISO 20MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	1860	Outer_Full	5.81	/	/	<=13	Pass
	1880	Outer_Full	5.78	/	/	<=13	Pass
	1900	Outer_Full	5.86	/	/	<=13	Pass
DFT-s-OFDM QPSK	1860	Outer_Full	7.10	/	/	<=13	Pass
	1880	Outer_Full	7.12	/	/	<=13	Pass
	1900	Outer_Full	6.87	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1860	Outer_Full	7.25	/	/	<=13	Pass
	1880	Outer_Full	7.53	/	/	<=13	Pass
	1900	Outer_Full	7.39	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1860	Outer_Full	7.63	/	/	<=13	Pass
	1880	Outer_Full	7.33	/	/	<=13	Pass
	1900	Outer_Full	7.36	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1860	Outer_Full	7.34	/	/	<=13	Pass
	1880	Outer_Full	7.43	/	/	<=13	Pass
	1900	Outer_Full	7.31	/	/	<=13	Pass
CP-OFDM QPSK	1860	Outer_Full	8.79	/	/	<=13	Pass
	1880	Outer_Full	8.65	/	/	<=13	Pass
	1900	Outer_Full	8.60	/	/	<=13	Pass
CP-OFDM 16 QAM	1860	Outer_Full	8.43	/	/	<=13	Pass
	1880	Outer_Full	8.13	/	/	<=13	Pass
	1900	Outer_Full	8.44	/	/	<=13	Pass
CP-OFDM 64 QAM	1860	Outer_Full	8.65	/	/	<=13	Pass
	1880	Outer_Full	8.43	/	/	<=13	Pass
	1900	Outer_Full	8.58	/	/	<=13	Pass
CP-OFDM 256 QAM	1860	Outer_Full	8.33	/	/	<=13	Pass
	1880	Outer_Full	8.48	/	/	<=13	Pass
	1900	Outer_Full	8.53	/	/	<=13	Pass

1.7.2 Test Graph

n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_1860MHz_Outer_Full



n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_1880MHz_Outer_Full

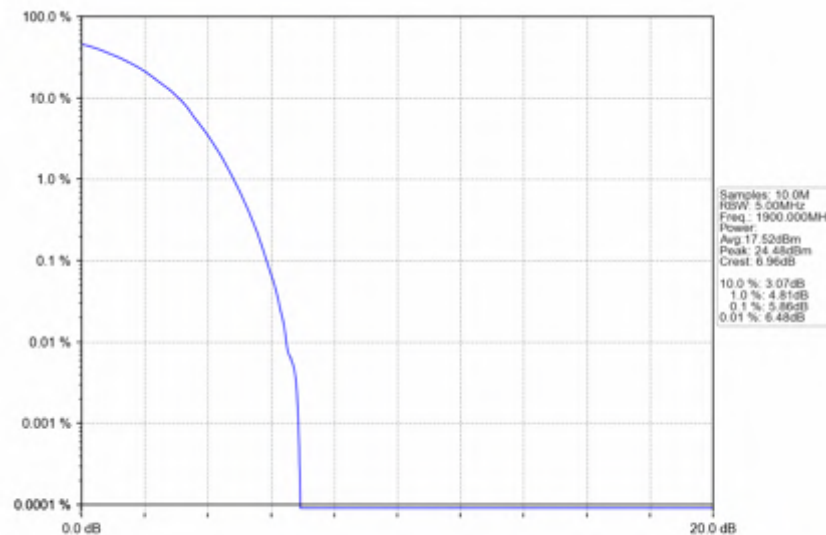


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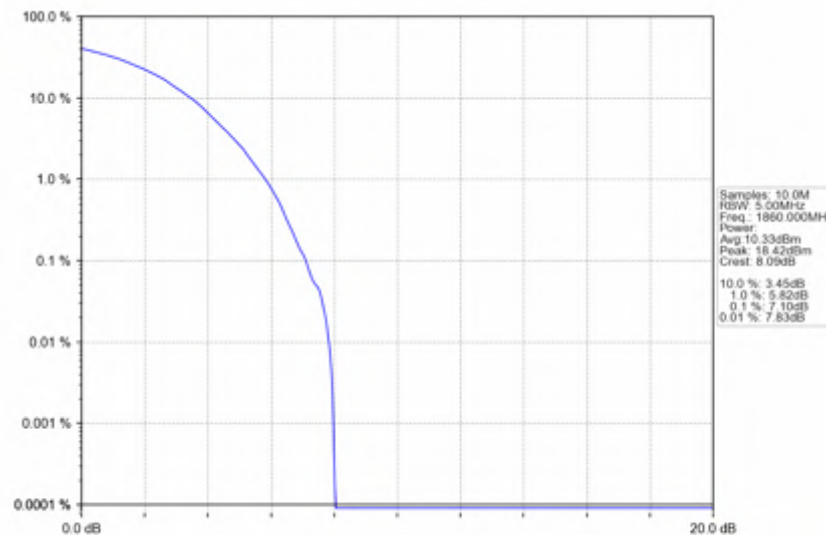
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n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_1860MHz_Outer_Full



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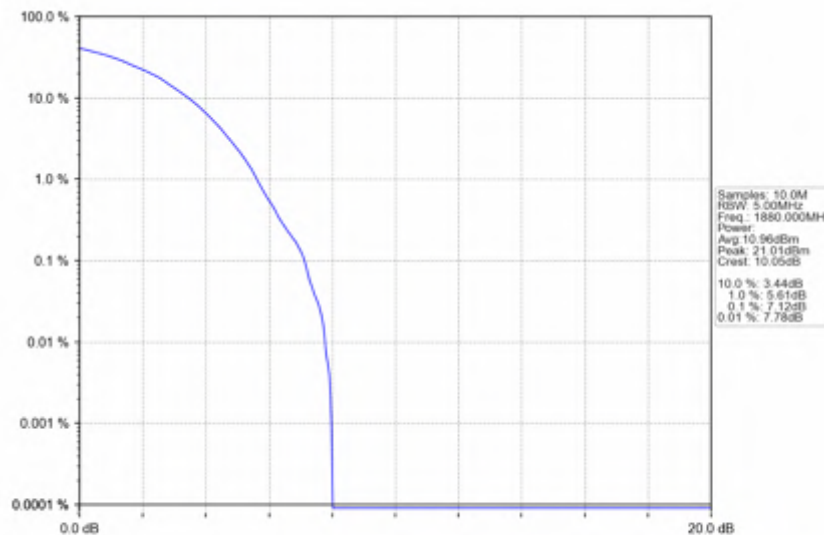
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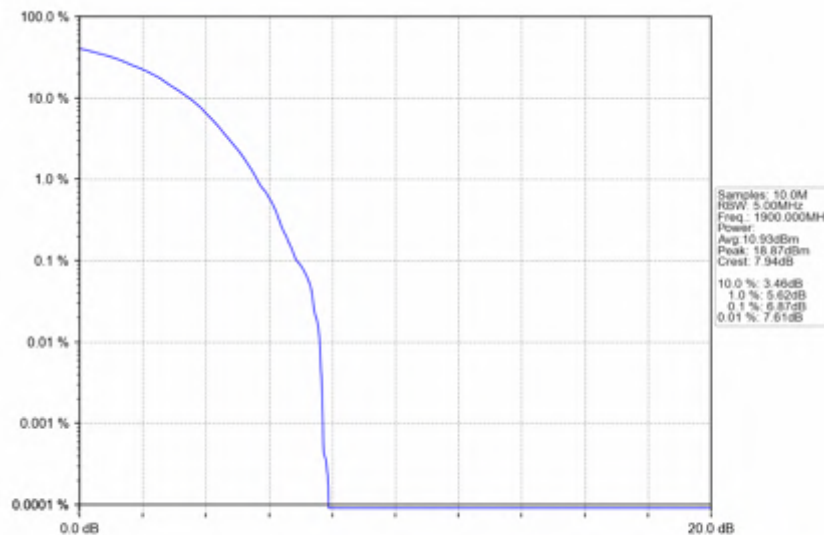
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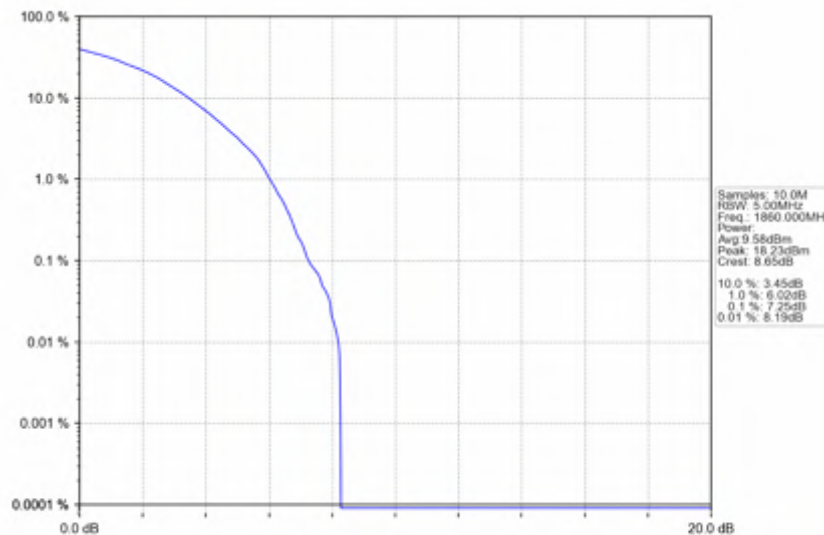
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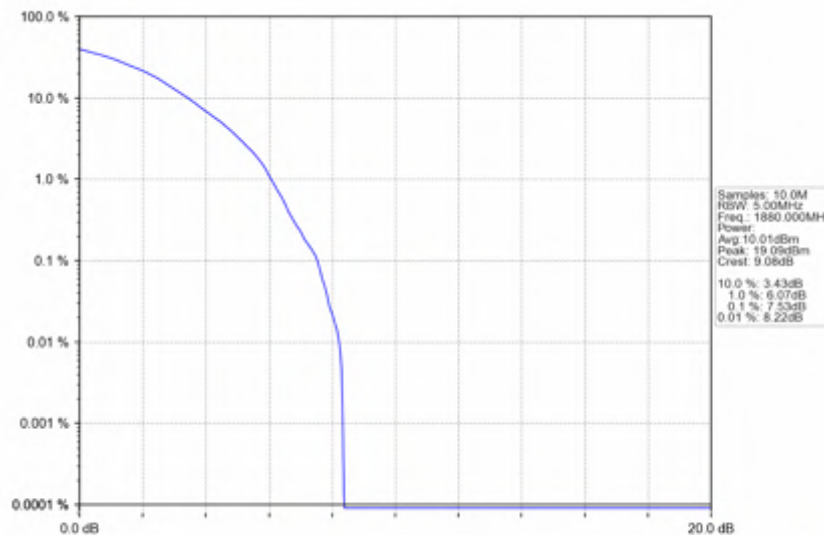
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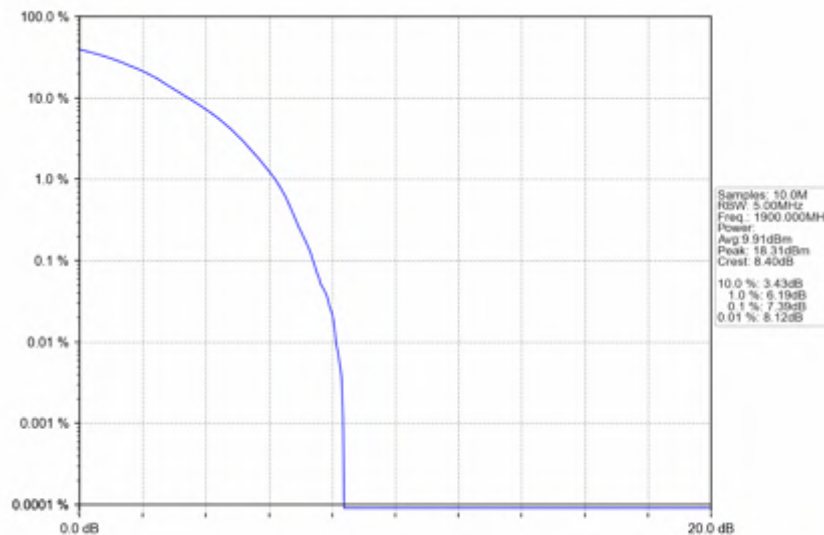
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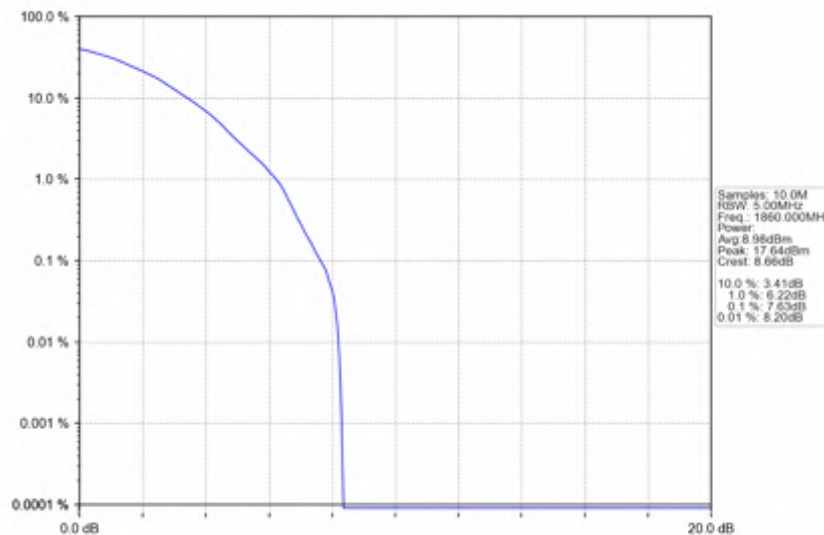
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n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_1900MHz_Outer_Full



n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_1860MHz_Outer_Full



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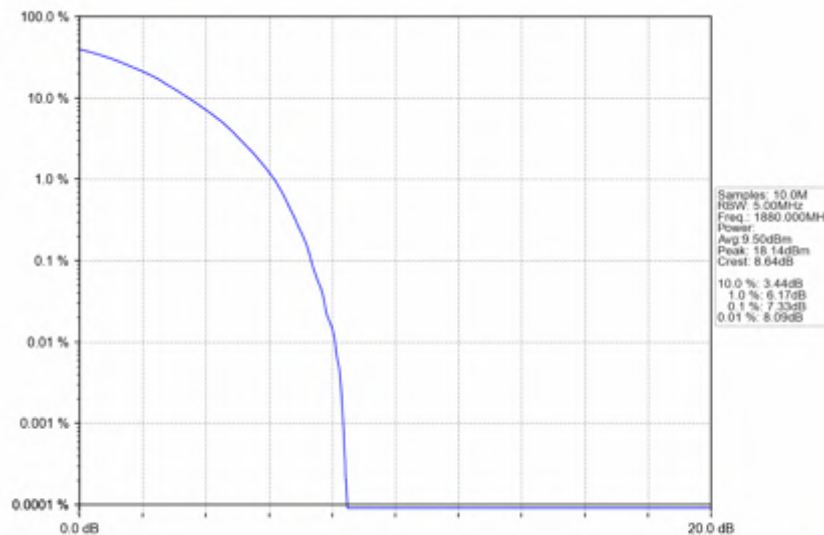
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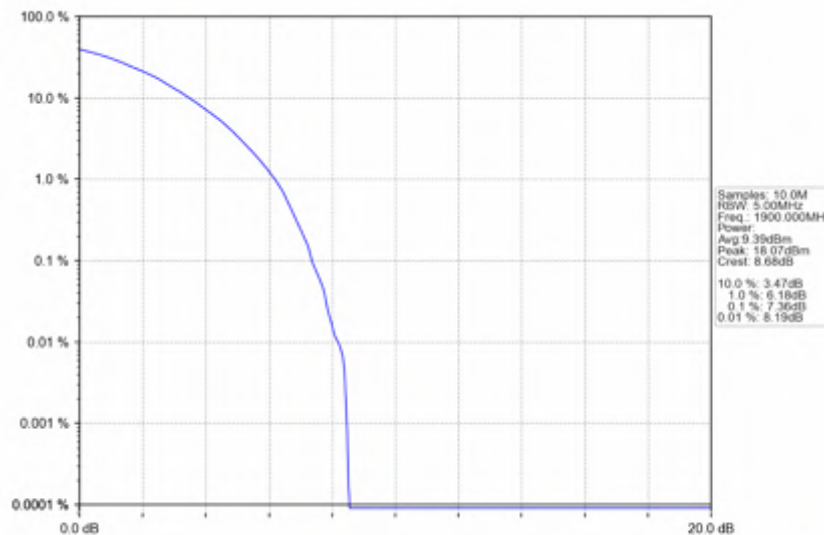
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n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_1880MHz_Outer_Full



n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_1900MHz_Outer_Full



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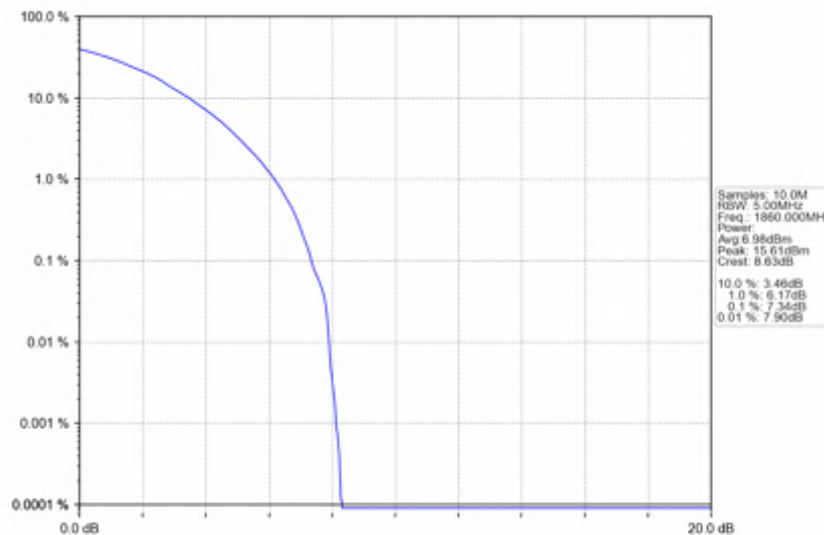
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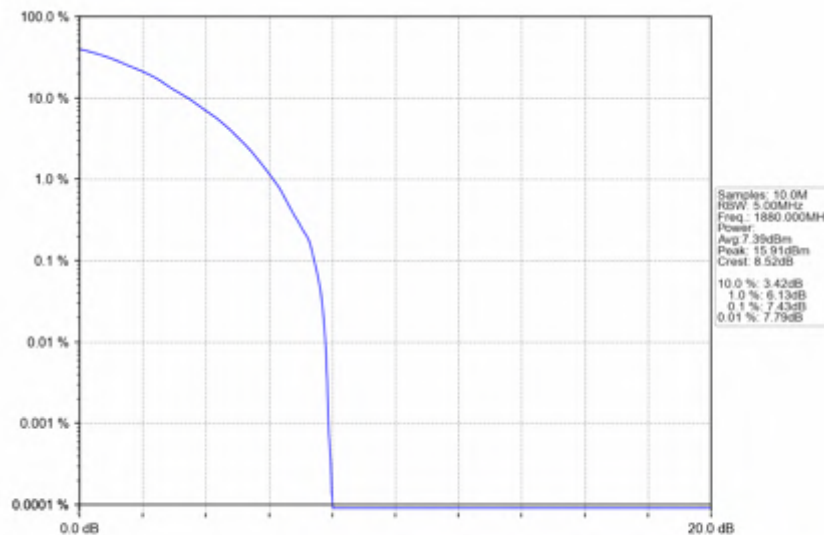
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n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_1860MHz_Outer_Full



n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_1880MHz_Outer_Full

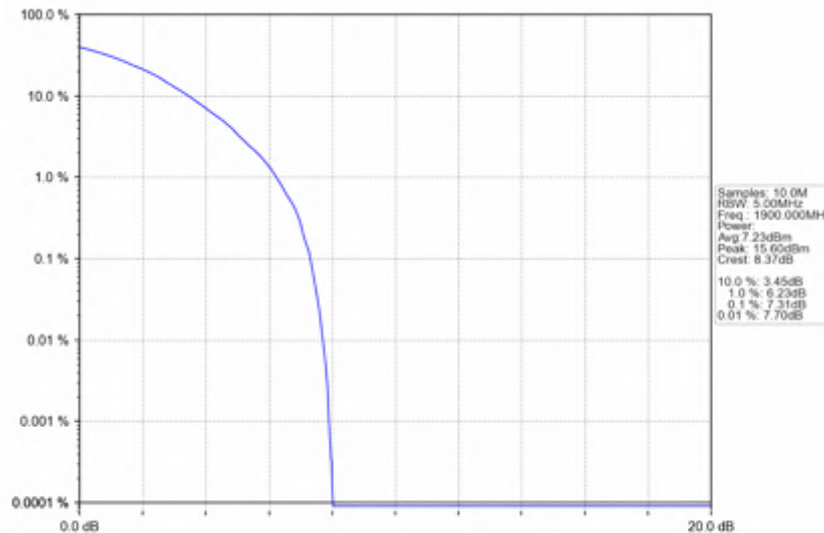


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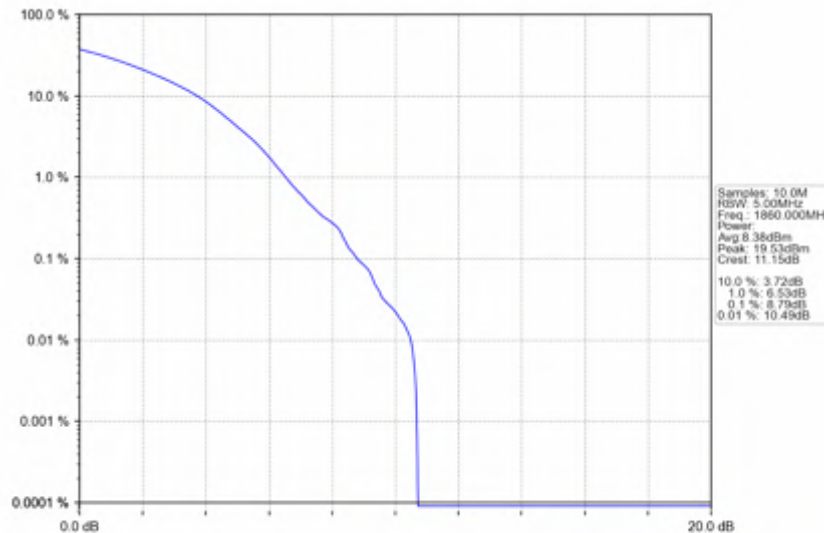
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n2_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_1900MHz_Outer_Full



n2_30kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_1860MHz_Outer_Full

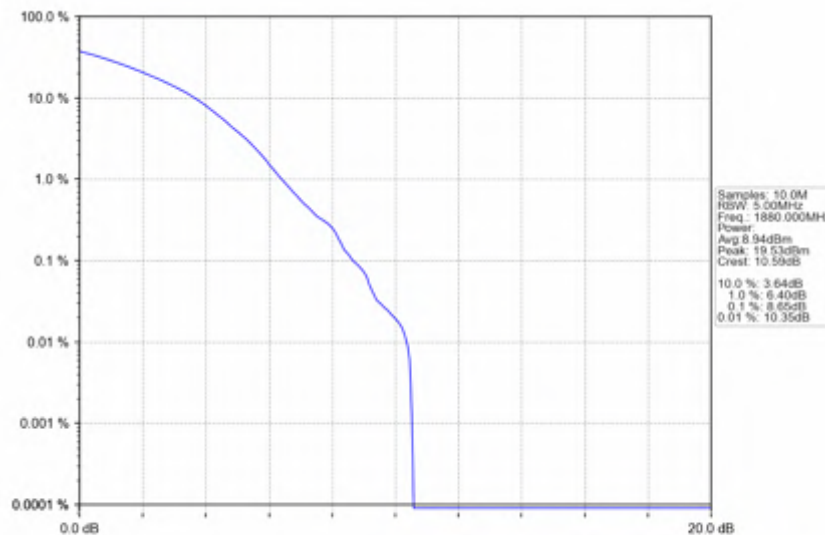


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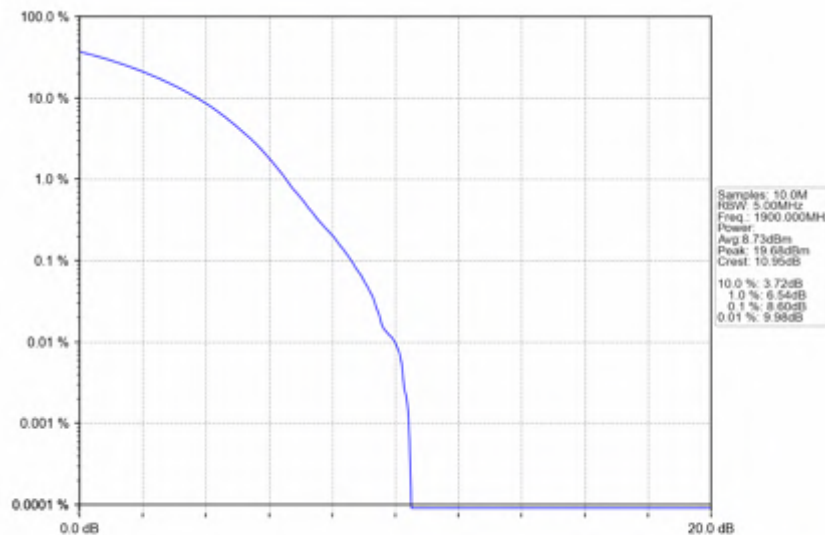
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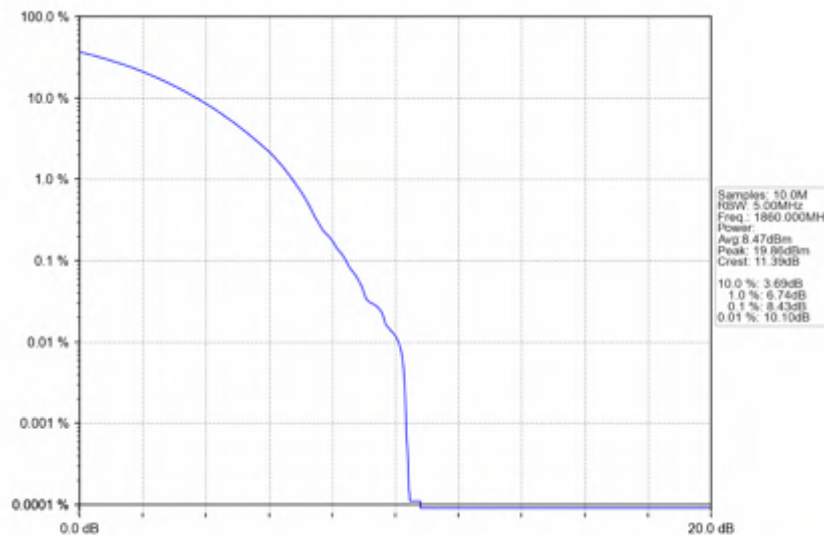


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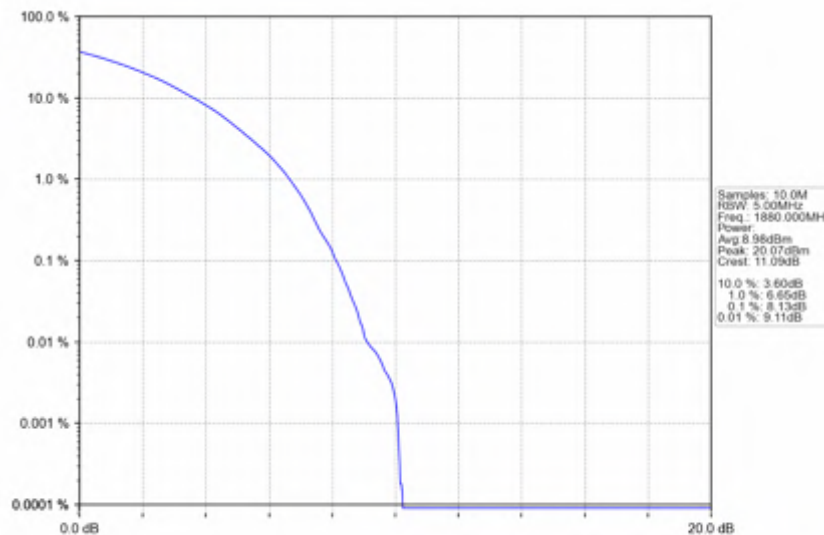
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n2_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_1860MHz_Outer_Full



n2_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_1880MHz_Outer_Full



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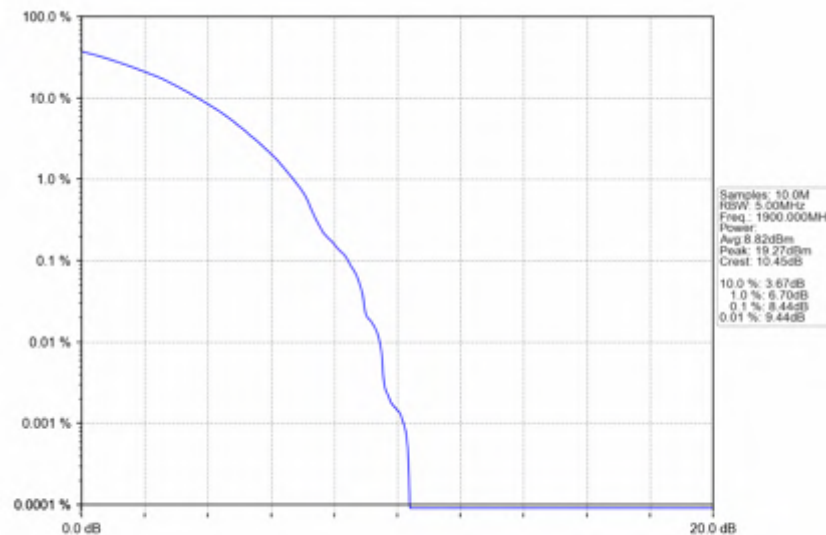
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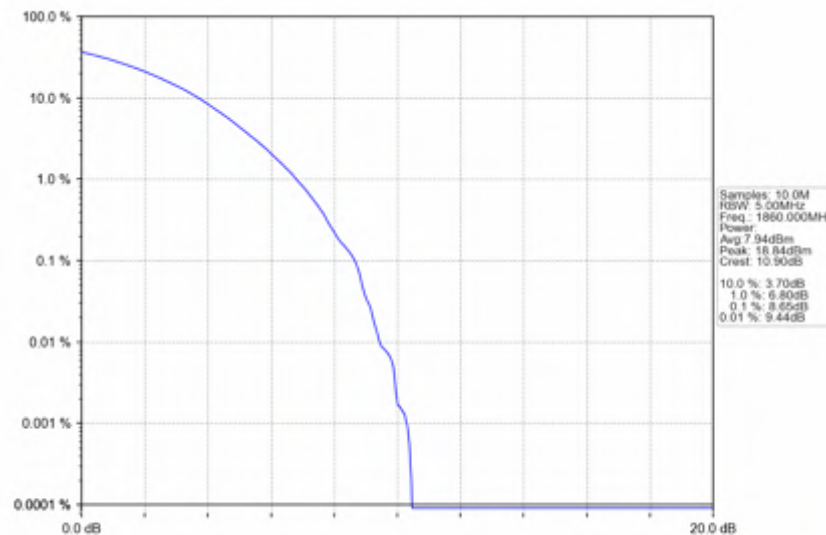
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n2_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_1860MHz_Outer_Full

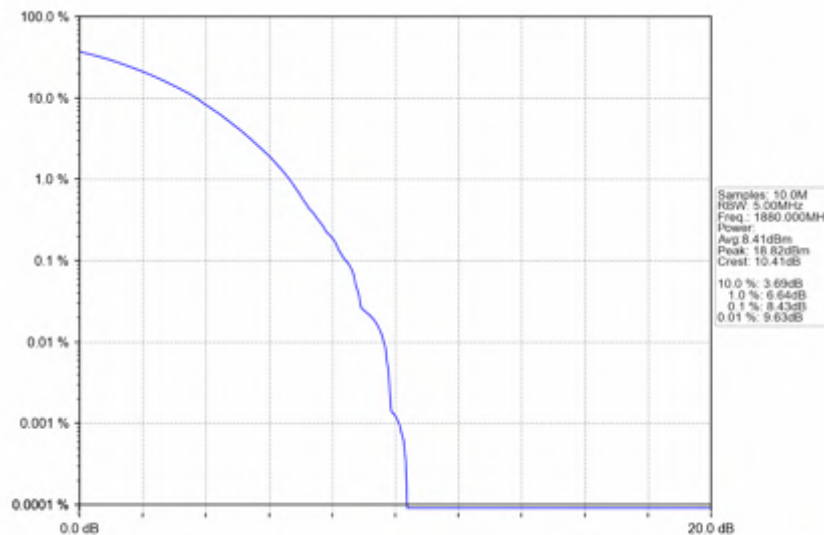


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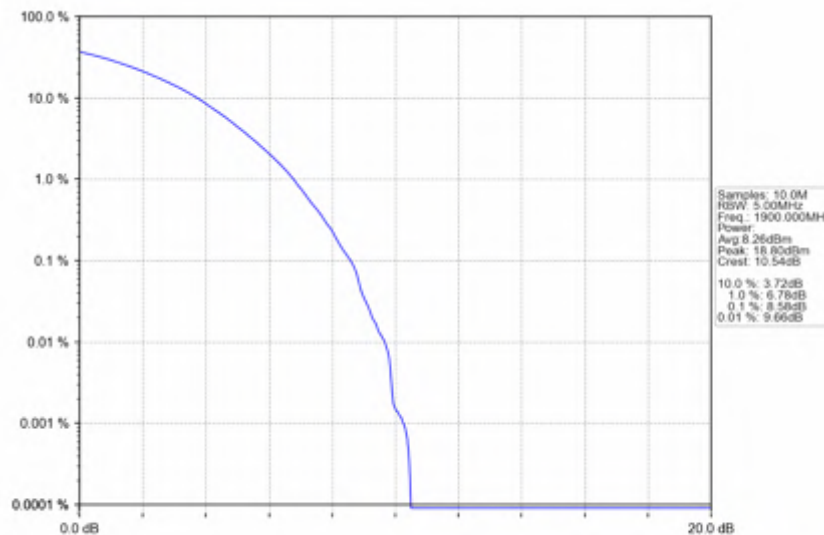
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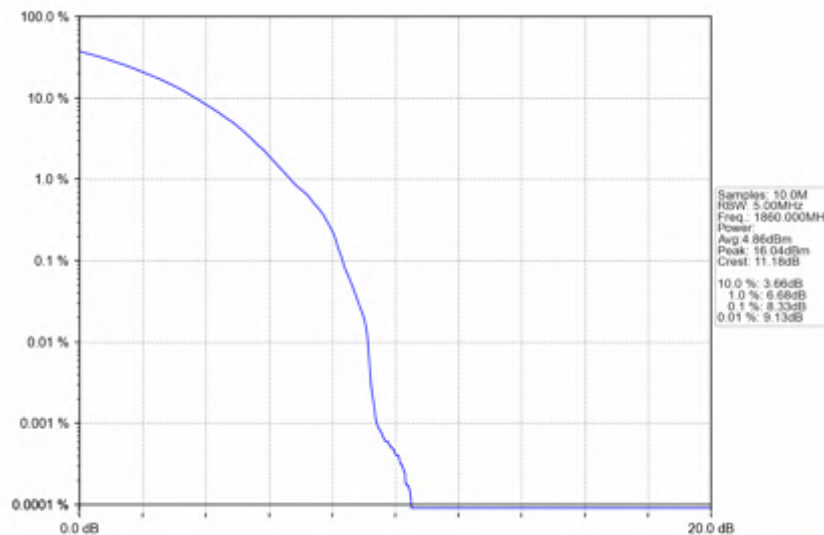


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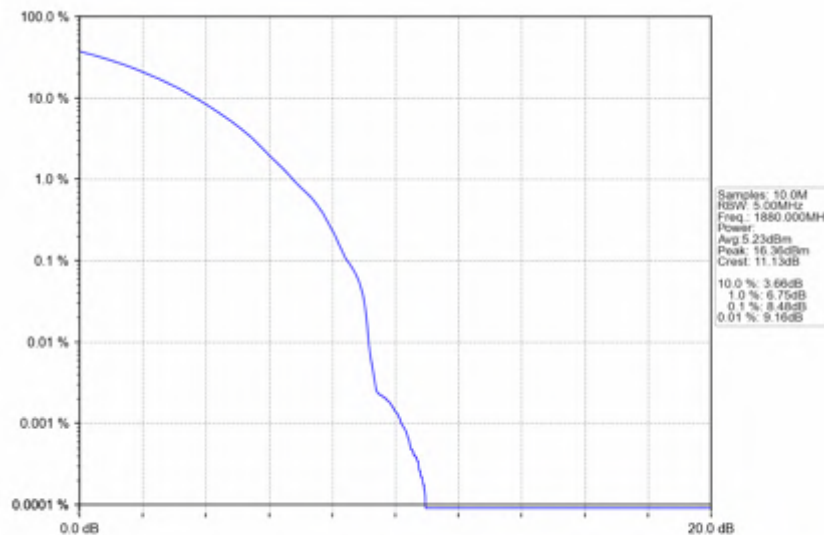
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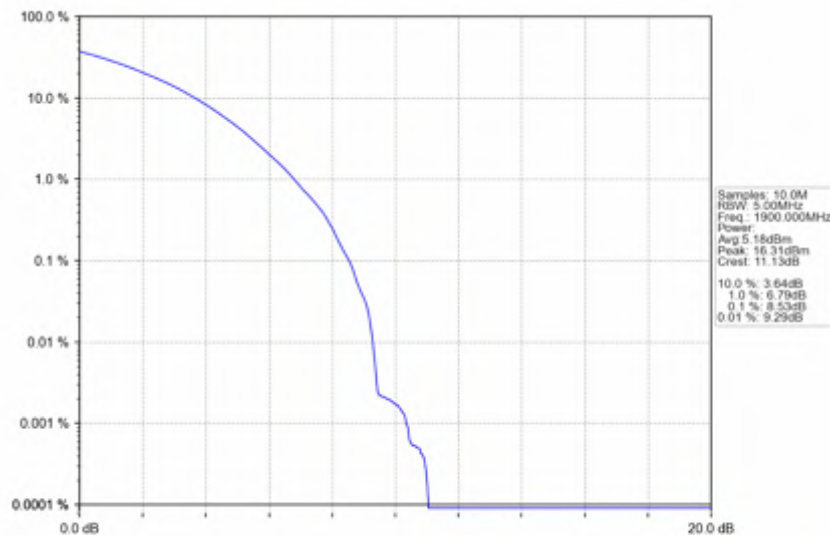
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2. n5 Peak-Average Ratio

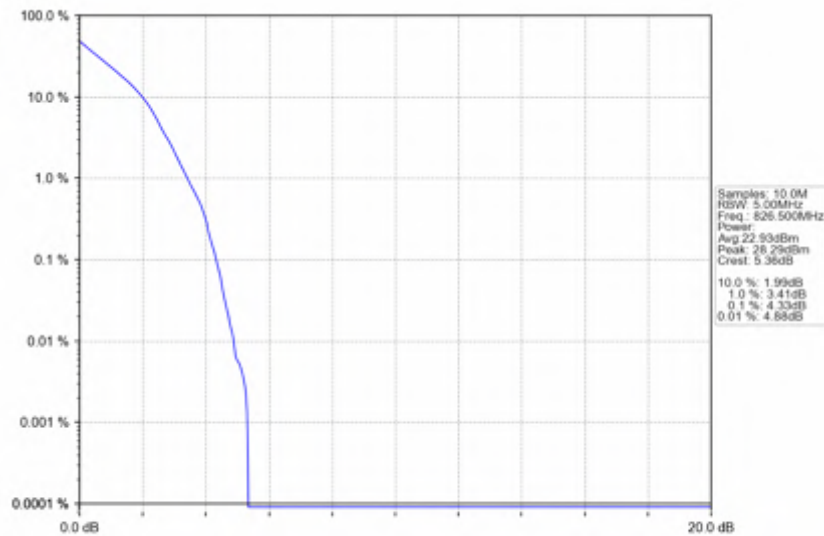
2.1 15k_SISO_5MHz_NTNV

2.1.1 Test Result

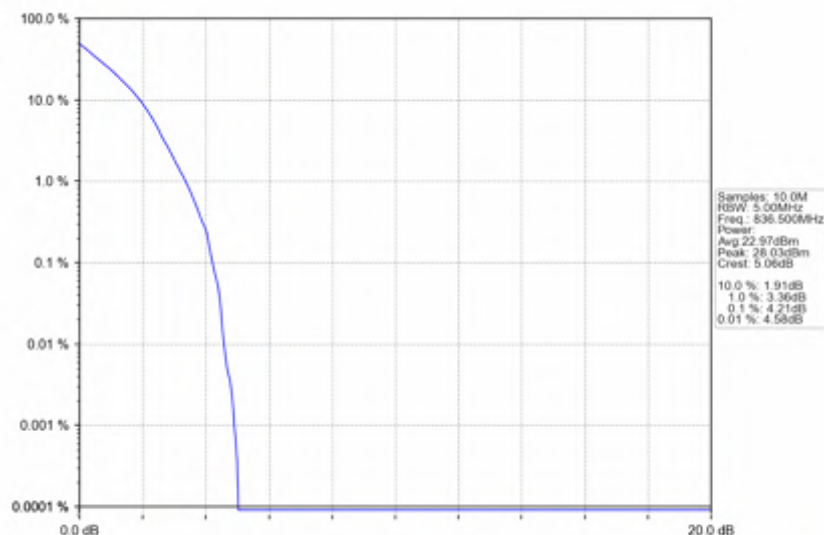
5G NR n5 SCS=15kHz SISO 5MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	826.5	Outer_Full	4.33	/	/	<=13	Pass
	836.5	Outer_Full	4.21	/	/	<=13	Pass
	846.5	Outer_Full	4.08	/	/	<=13	Pass
DFT-s-OFDM QPSK	826.5	Outer_Full	5.25	/	/	<=13	Pass
	836.5	Outer_Full	5.30	/	/	<=13	Pass
	846.5	Outer_Full	5.21	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	826.5	Outer_Full	5.90	/	/	<=13	Pass
	836.5	Outer_Full	5.92	/	/	<=13	Pass
	846.5	Outer_Full	5.79	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	826.5	Outer_Full	6.37	/	/	<=13	Pass
	836.5	Outer_Full	6.33	/	/	<=13	Pass
	846.5	Outer_Full	6.22	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	826.5	Outer_Full	6.89	/	/	<=13	Pass
	836.5	Outer_Full	6.92	/	/	<=13	Pass
	846.5	Outer_Full	6.71	/	/	<=13	Pass
CP-OFDM QPSK	826.5	Outer_Full	7.40	/	/	<=13	Pass
	836.5	Outer_Full	7.55	/	/	<=13	Pass
	846.5	Outer_Full	7.26	/	/	<=13	Pass
CP-OFDM 16 QAM	826.5	Outer_Full	7.33	/	/	<=13	Pass
	836.5	Outer_Full	7.33	/	/	<=13	Pass
	846.5	Outer_Full	7.17	/	/	<=13	Pass
CP-OFDM 64 QAM	826.5	Outer_Full	7.74	/	/	<=13	Pass
	836.5	Outer_Full	7.83	/	/	<=13	Pass
	846.5	Outer_Full	7.57	/	/	<=13	Pass
CP-OFDM 256 QAM	826.5	Outer_Full	8.40	/	/	<=13	Pass
	836.5	Outer_Full	8.13	/	/	<=13	Pass
	846.5	Outer_Full	8.26	/	/	<=13	Pass

2.1.2 Test Graph

n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_PI/2_BPSK_826.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_PI/2_BPSK_836.5MHz_Outer_Full



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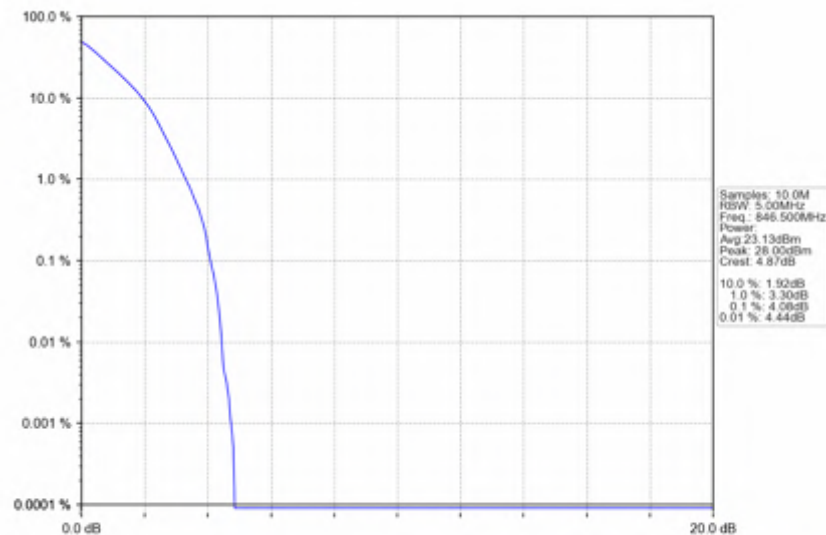
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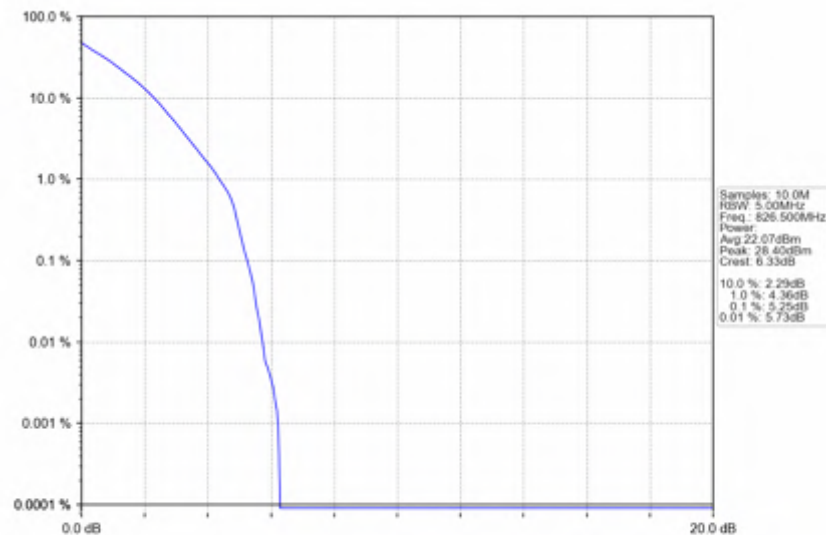
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_846.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_826.5MHz_Outer_Full



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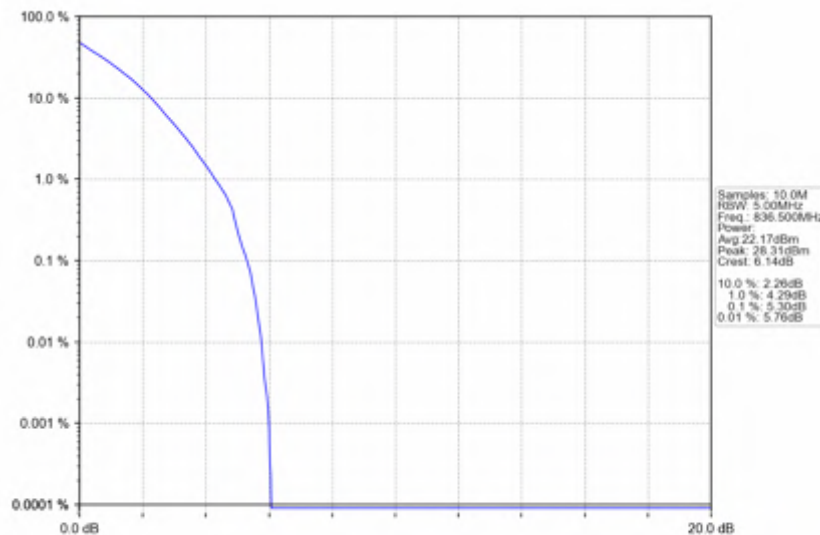
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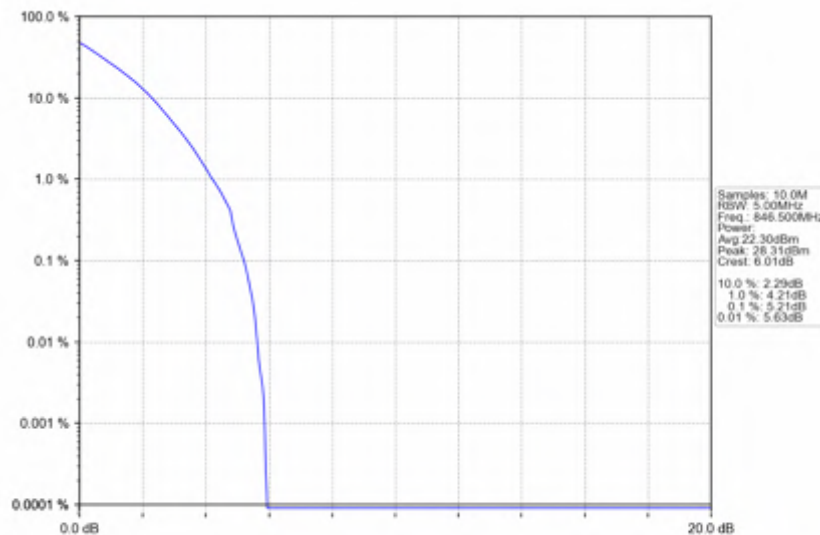
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_836.5MHz_Outer_Full



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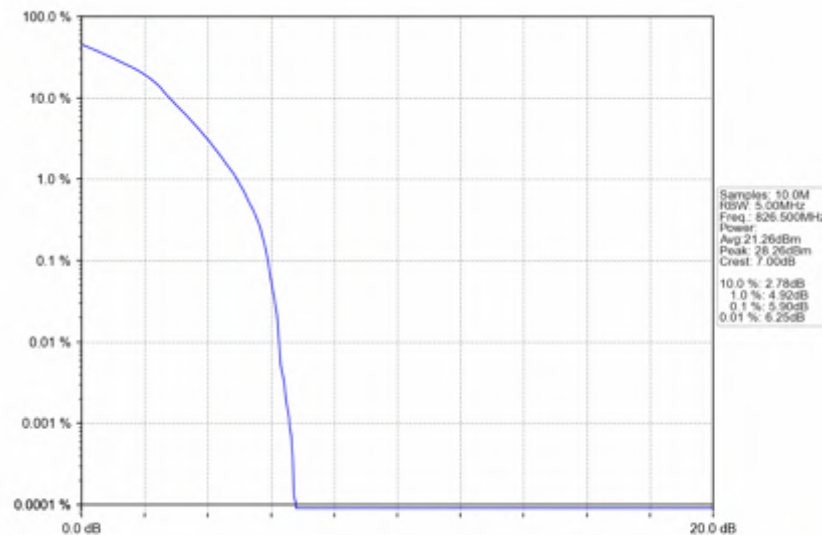


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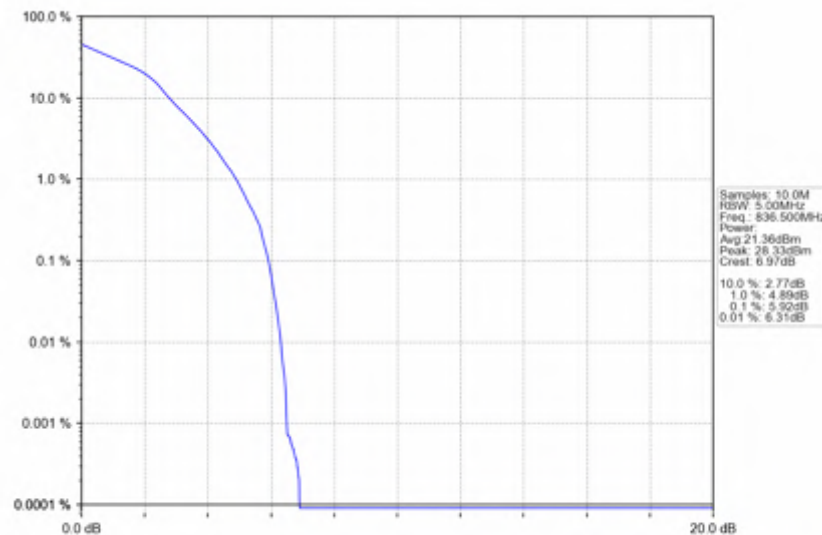
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_16_QAM_826.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_16_QAM_836.5MHz_Outer_Full



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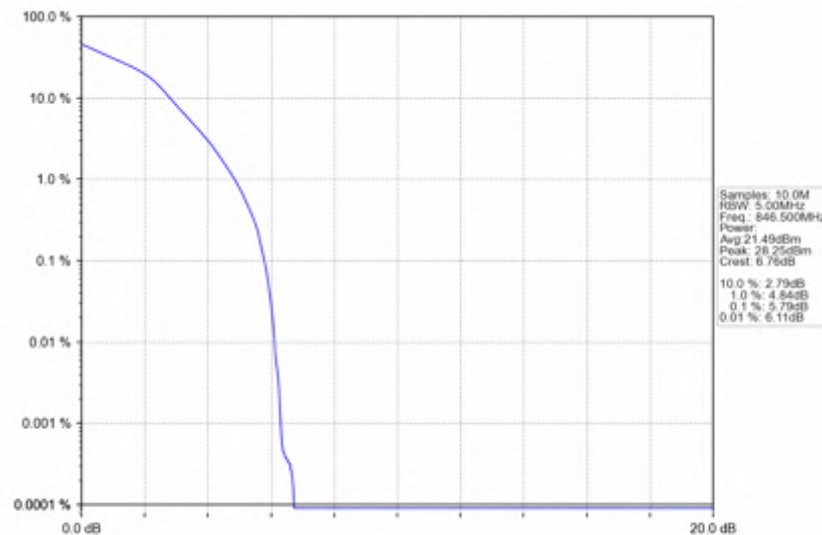
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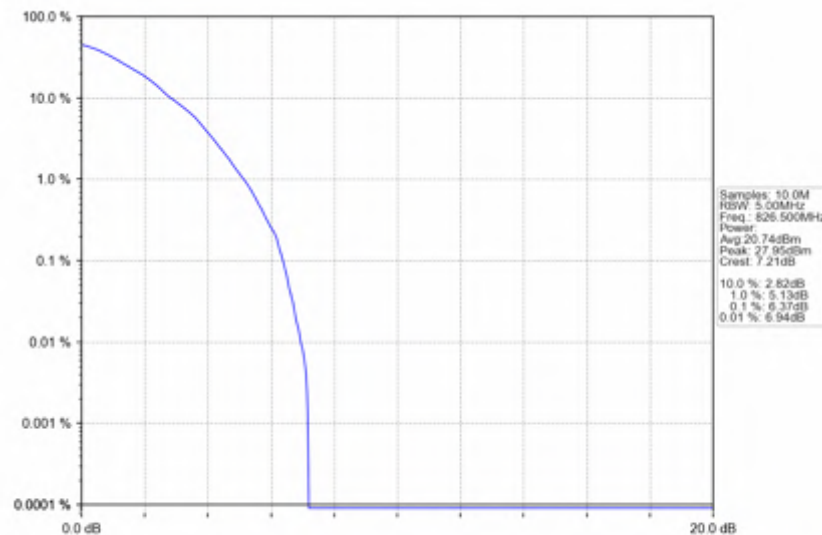
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_16_QAM_846.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_64_QAM_826.5MHz_Outer_Full



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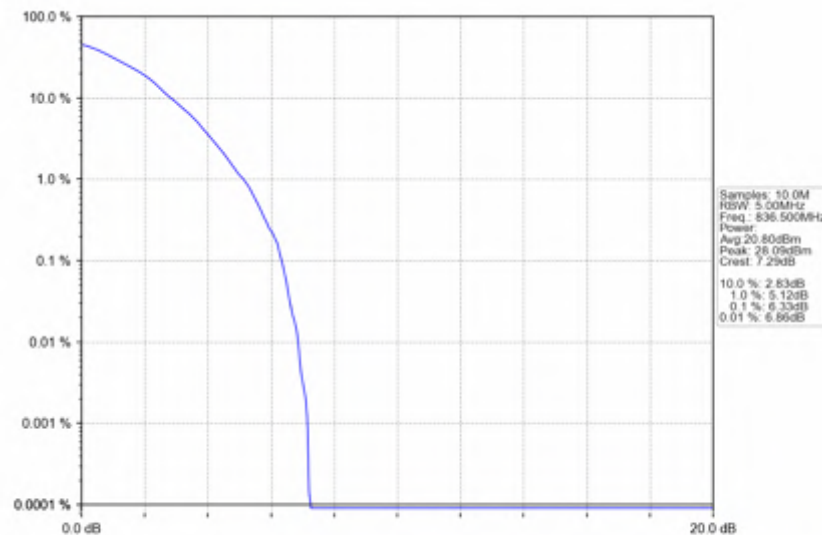
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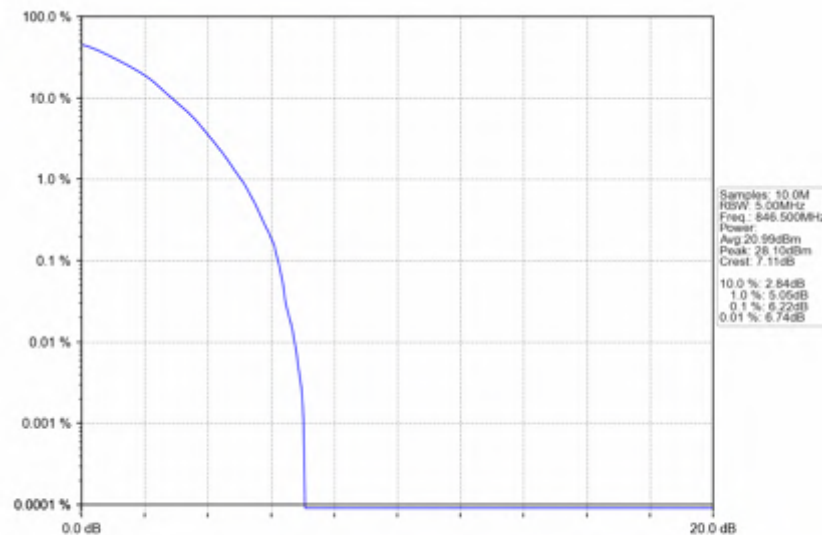
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 64 QAM_836.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 64 QAM_846.5MHz_Outer_Full



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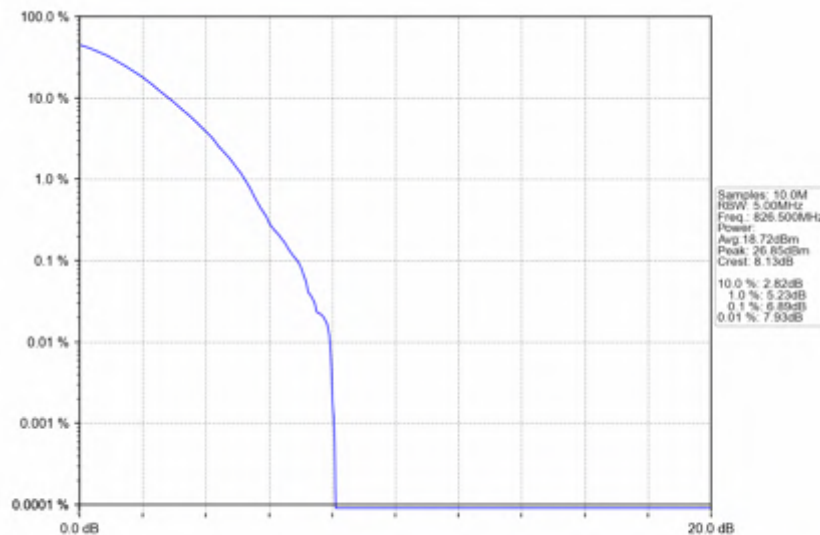
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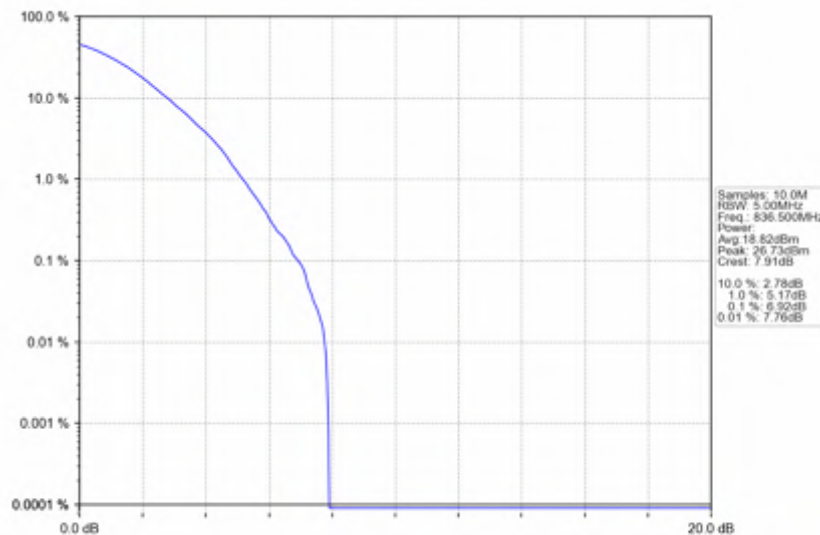
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n5_15kHz_SISO_NTV_5MHz_DFT-s-OFDM_256_QAM_826.5MHz_Outer_Full



n5_15kHz_SISO_NTV_5MHz_DFT-s-OFDM_256_QAM_836.5MHz_Outer_Full



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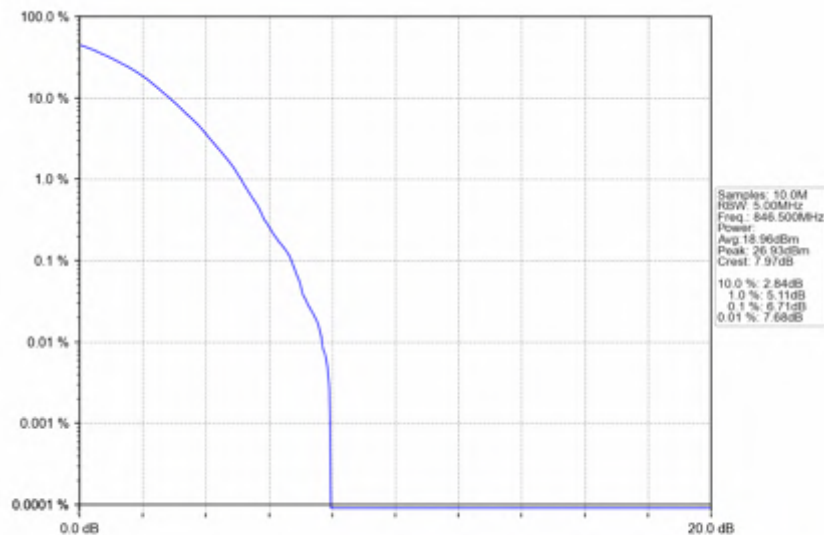
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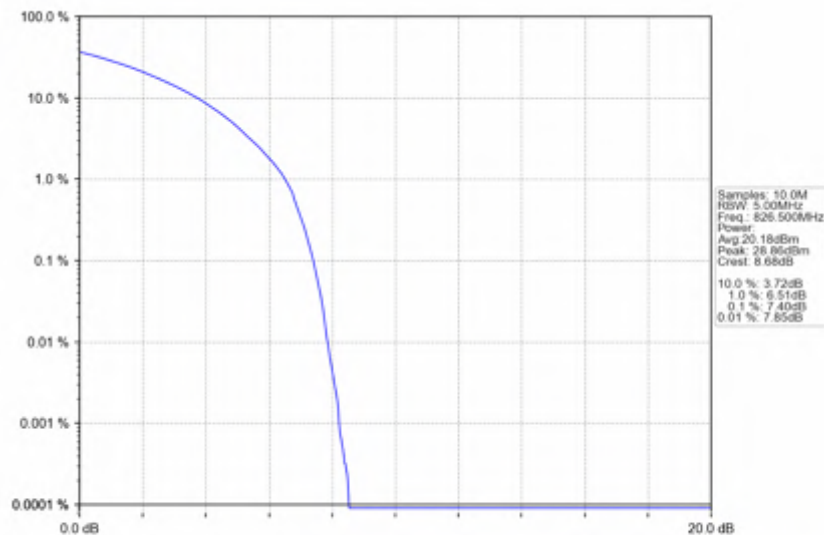
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n5_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_256_QAM_846.5MHz_Outer_Full



n5 15kHz SISO NTN 5MHz CP-OFDM QPSK 826.5MHz Outer Full

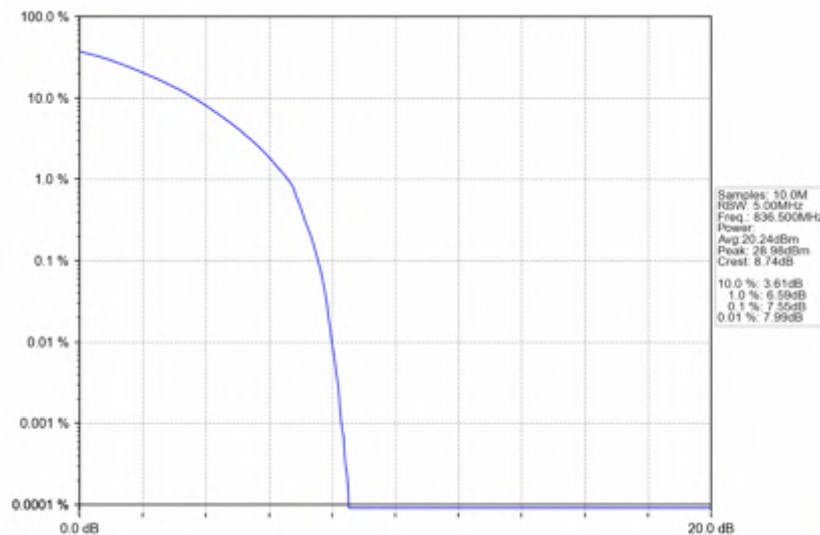


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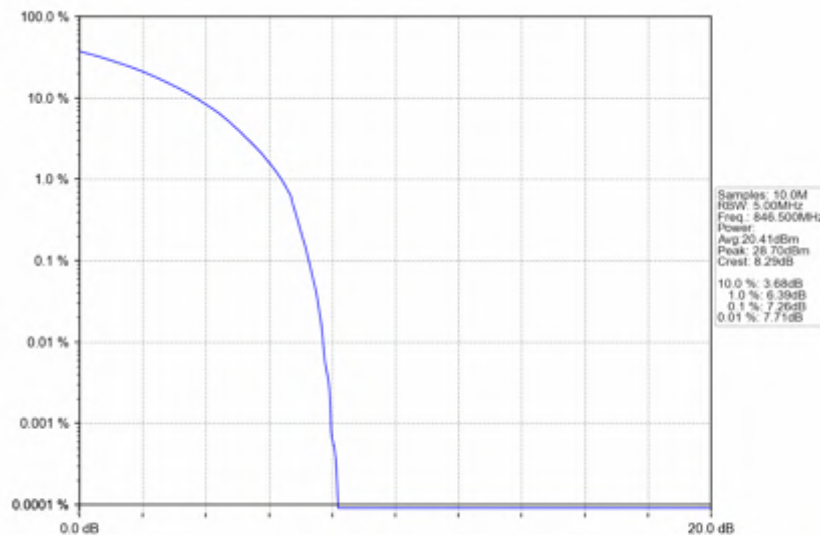
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n5_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_836.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_846.5MHz_Outer_Full

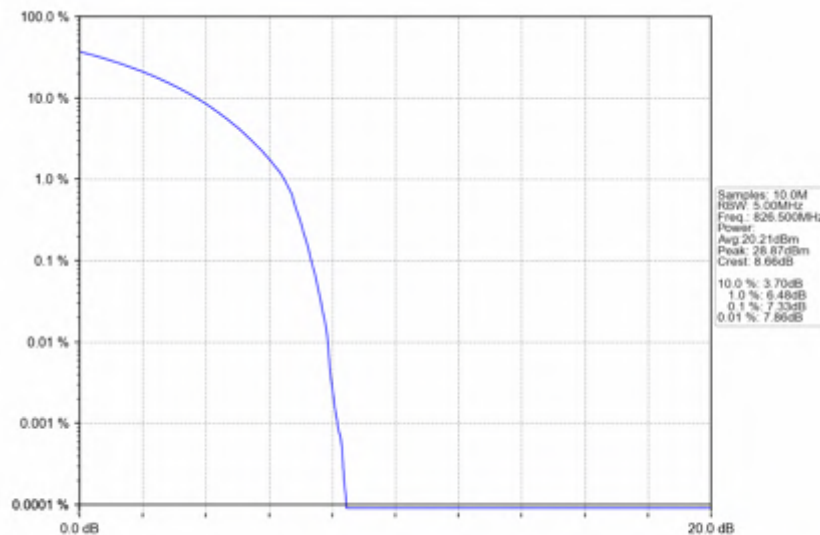


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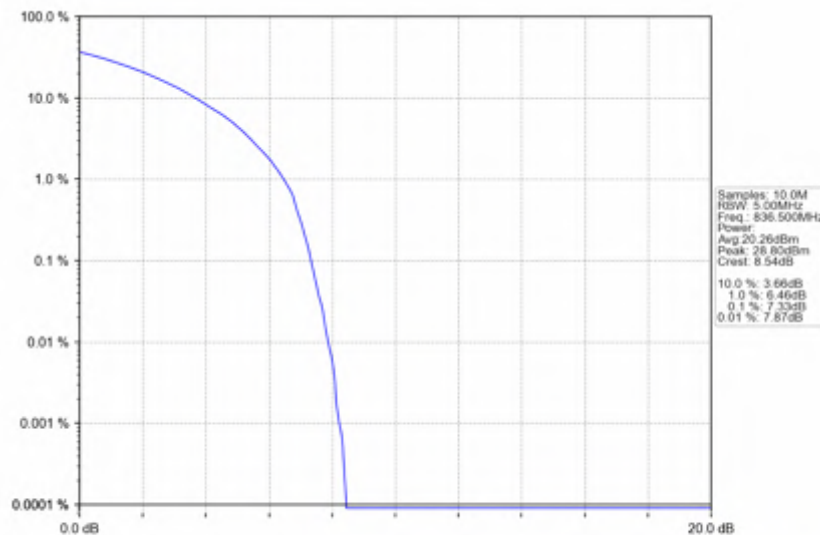
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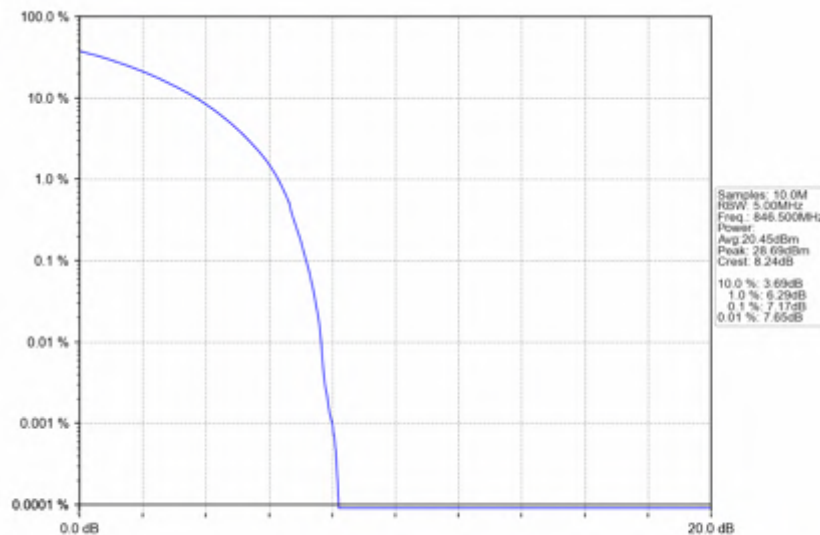


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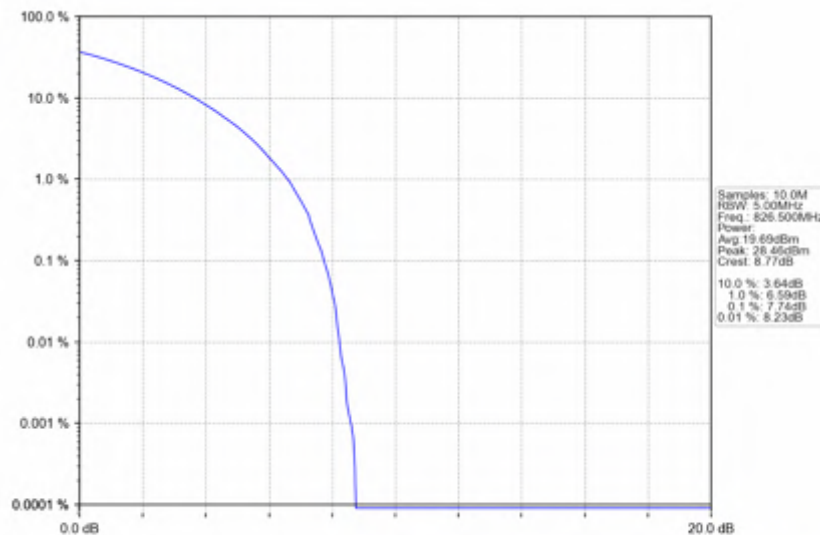
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n5_15kHz_SISO_NTV_5MHz_CP-OFDM_64_QAM_826.5MHz_Outer_Full

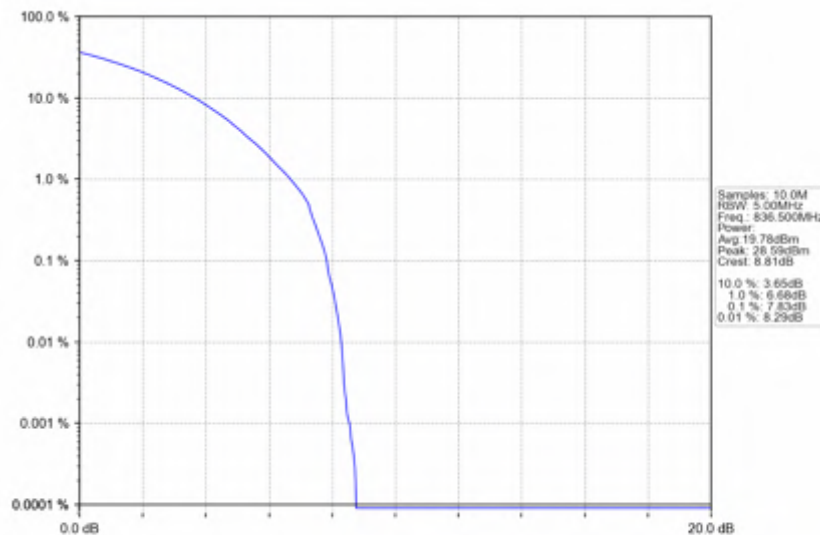


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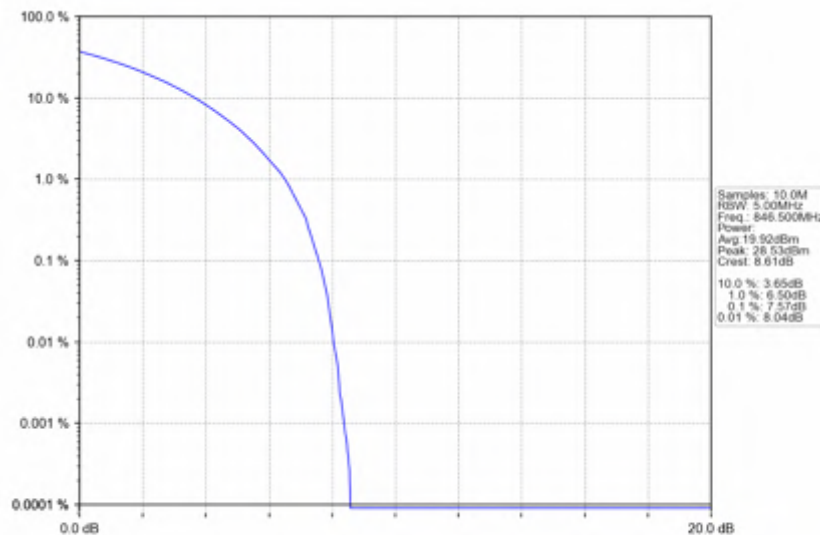
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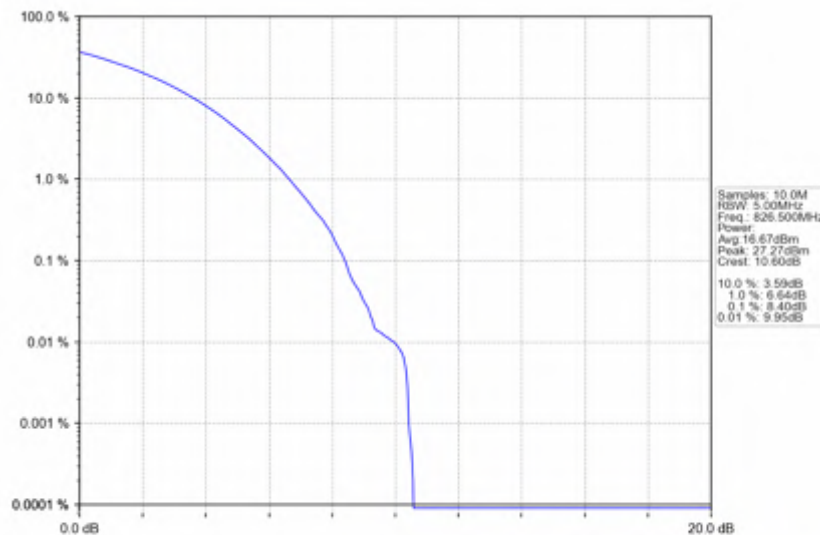
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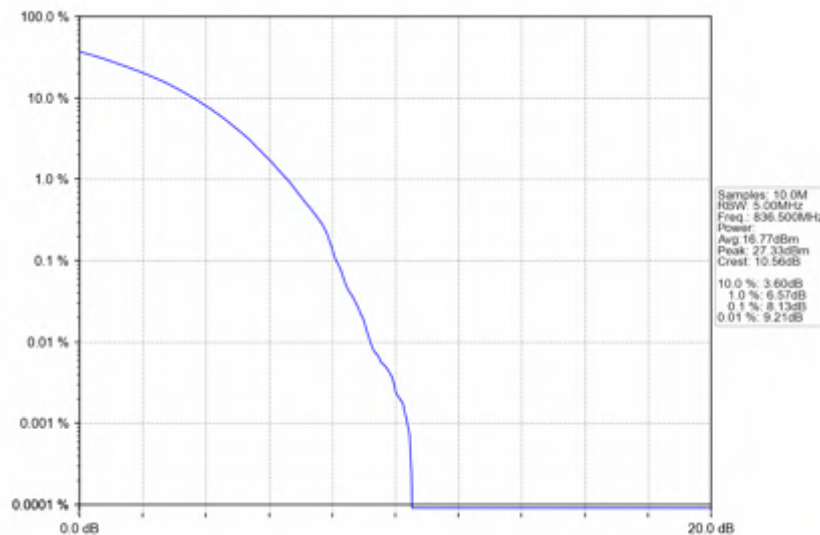
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n5_15kHz_SISO_NTNV_5MHz_CP-OFDM_256_QAM_836.5MHz_Outer_Full

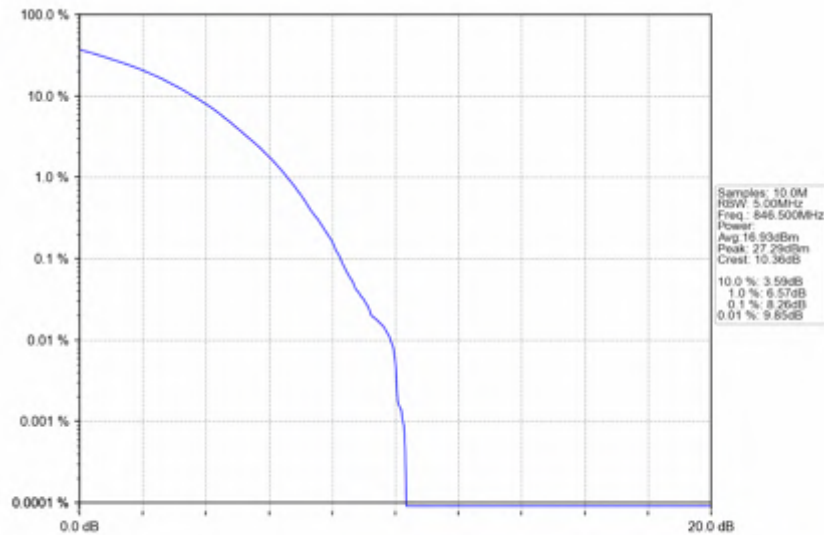


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n5_15kHz_SISO_NTNV_5MHz_CP-OFDM 256 QAM_846.5MHz_Outer_Full



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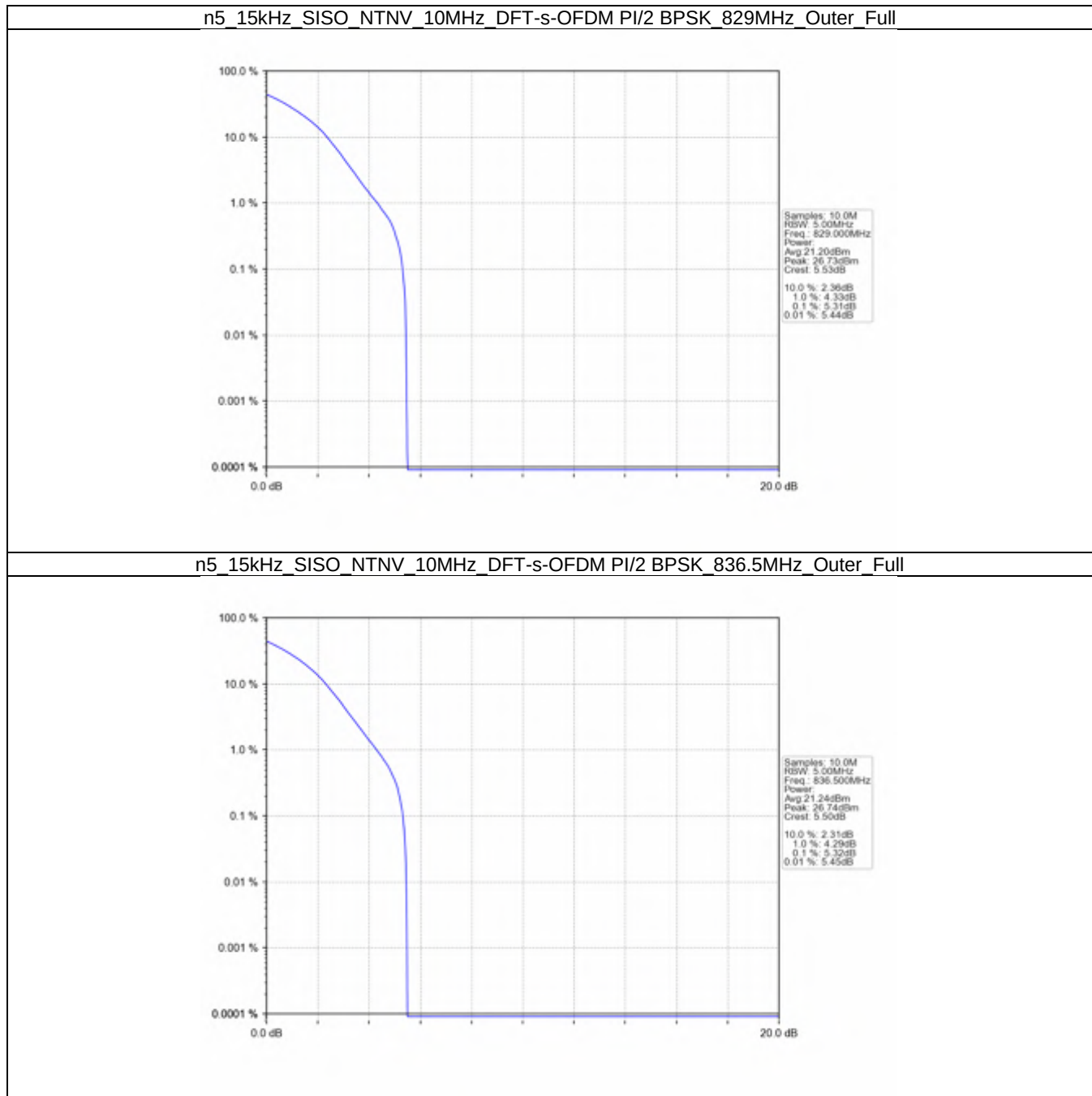
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2.2 15k_SISO_10MHz_NTNV

2.2.1 Test Result

5G NR n5 SCS=15kHz SISO 10MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	829	Outer_Full	5.31	/	/	<=13	Pass
	836.5	Outer_Full	5.32	/	/	<=13	Pass
	844	Outer_Full	5.36	/	/	<=13	Pass
DFT-s-OFDM QPSK	829	Outer_Full	5.34	/	/	<=13	Pass
	836.5	Outer_Full	5.35	/	/	<=13	Pass
	844	Outer_Full	5.41	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	829	Outer_Full	6.43	/	/	<=13	Pass
	836.5	Outer_Full	6.39	/	/	<=13	Pass
	844	Outer_Full	6.28	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	829	Outer_Full	6.56	/	/	<=13	Pass
	836.5	Outer_Full	6.60	/	/	<=13	Pass
	844	Outer_Full	6.54	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	829	Outer_Full	6.65	/	/	<=13	Pass
	836.5	Outer_Full	6.69	/	/	<=13	Pass
	844	Outer_Full	6.73	/	/	<=13	Pass
CP-OFDM QPSK	829	Outer_Full	8.02	/	/	<=13	Pass
	836.5	Outer_Full	7.78	/	/	<=13	Pass
	844	Outer_Full	7.96	/	/	<=13	Pass
CP-OFDM 16 QAM	829	Outer_Full	8.21	/	/	<=13	Pass
	836.5	Outer_Full	8.18	/	/	<=13	Pass
	844	Outer_Full	8.04	/	/	<=13	Pass
CP-OFDM 64 QAM	829	Outer_Full	8.32	/	/	<=13	Pass
	836.5	Outer_Full	8.15	/	/	<=13	Pass
	844	Outer_Full	8.20	/	/	<=13	Pass
CP-OFDM 256 QAM	829	Outer_Full	8.08	/	/	<=13	Pass
	836.5	Outer_Full	8.22	/	/	<=13	Pass
	844	Outer_Full	8.17	/	/	<=13	Pass

2.2.2 Test Graph



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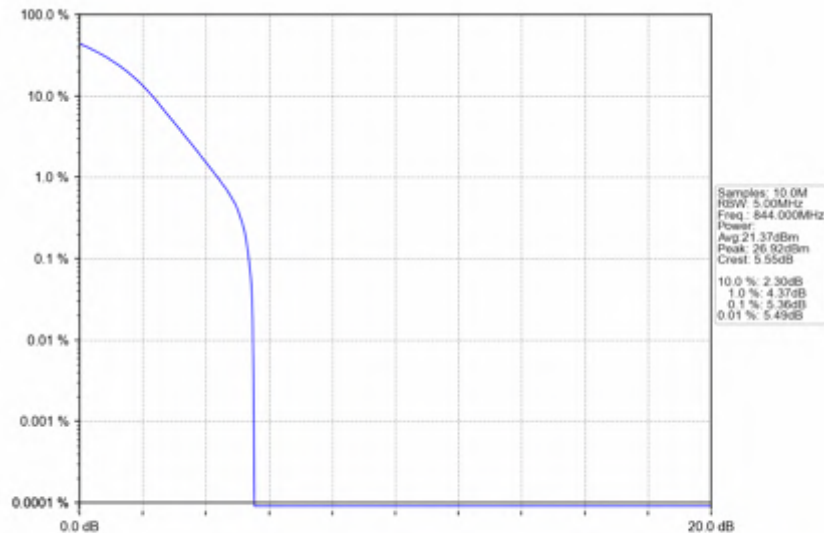
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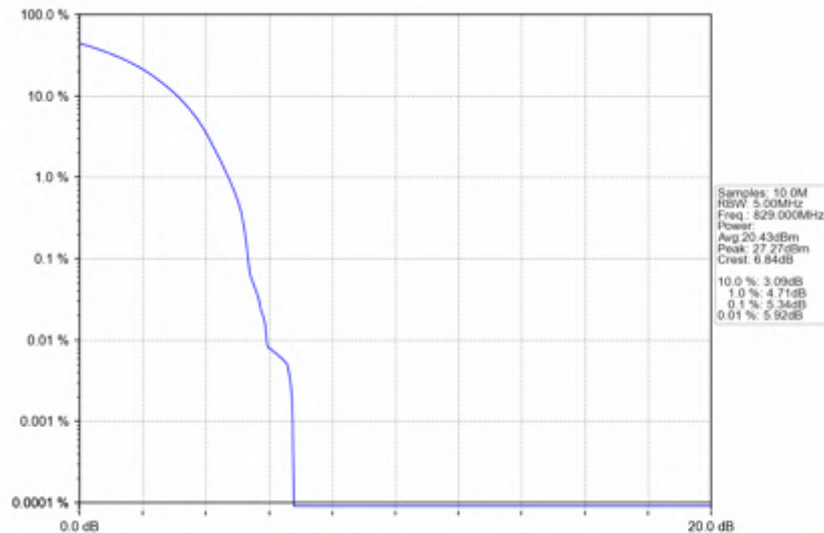
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n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_844MHz_Outer_Full



n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_829MHz_Outer_Full



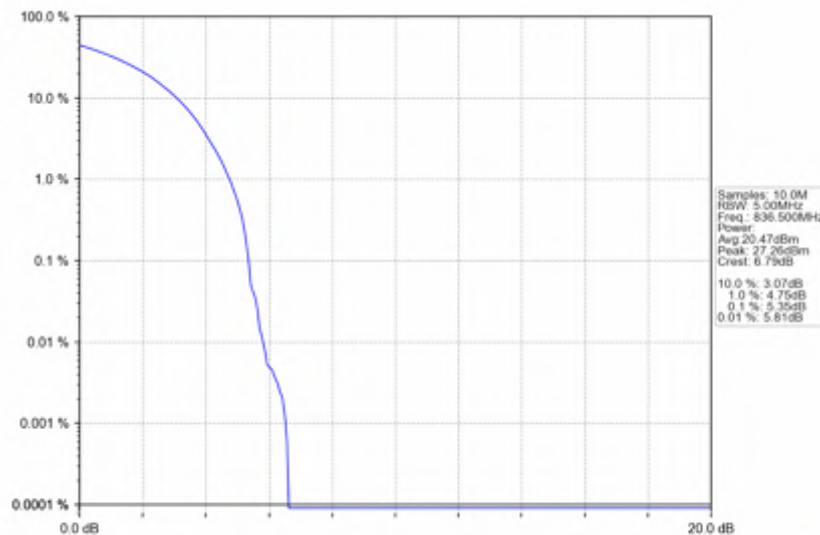
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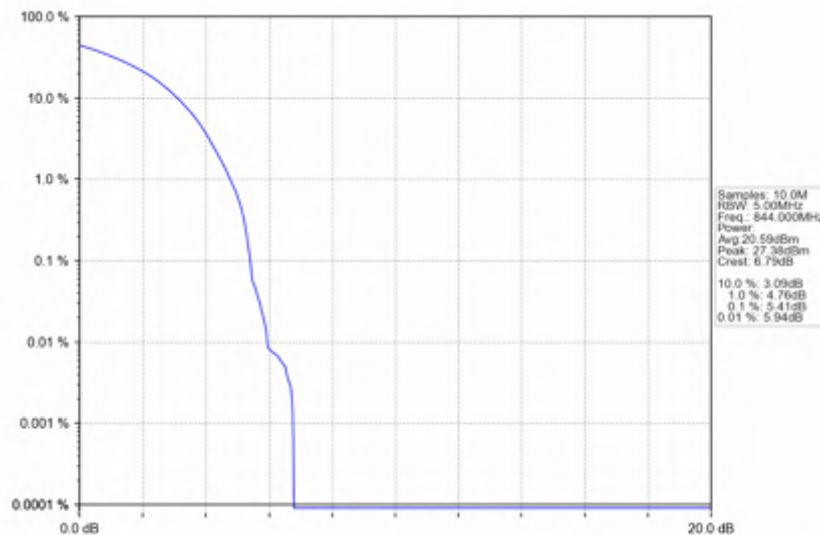
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n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_836.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_844MHz_Outer_Full



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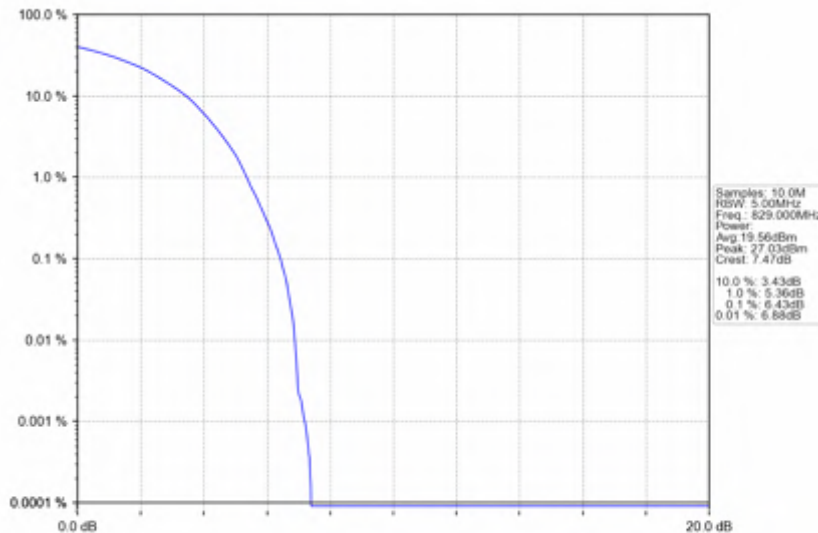
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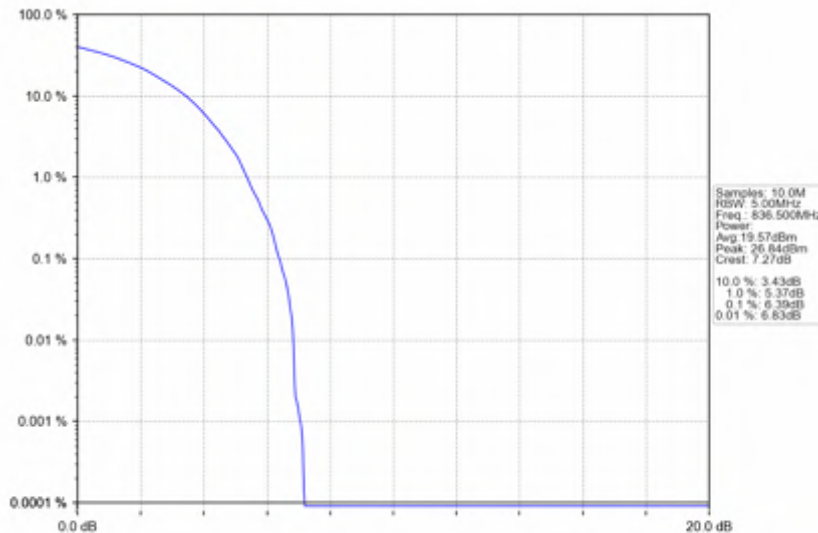
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n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_829MHz_Outer_Full



n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_836.5MHz_Outer_Full



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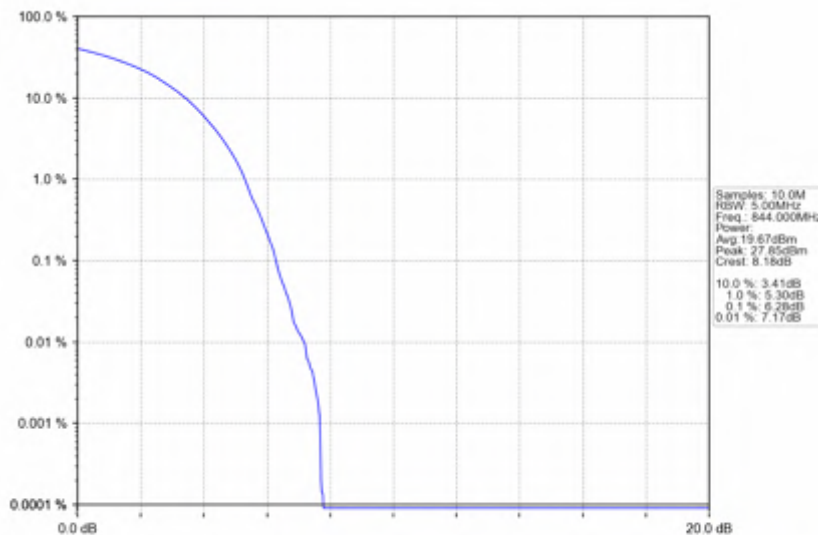
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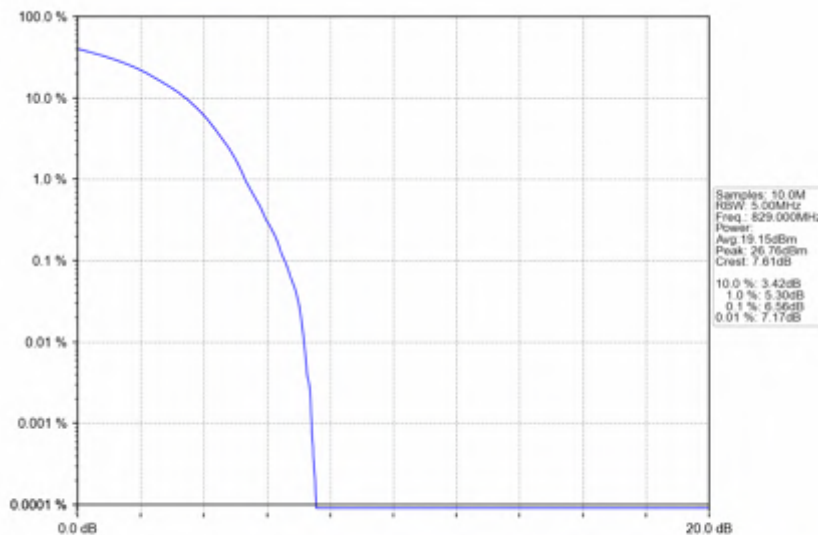
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n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_844MHz_Outer_Full



n5_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_64_QAM_829MHz_Outer_Full



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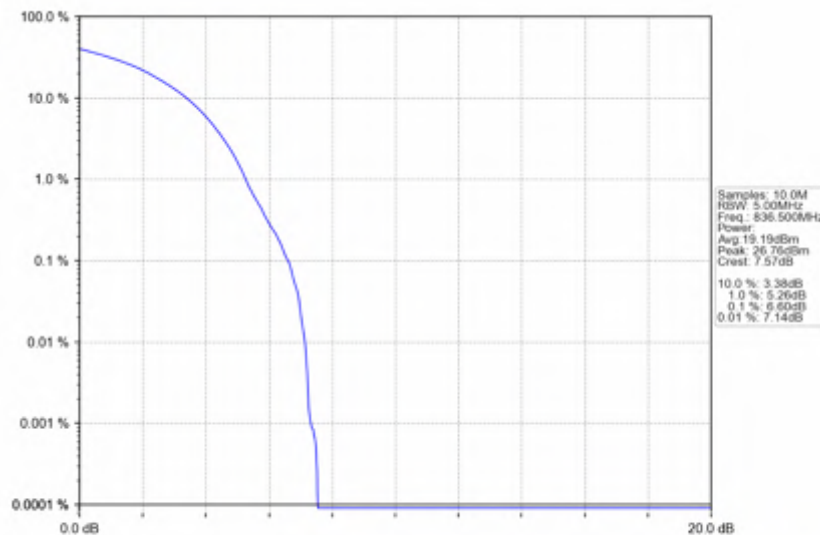
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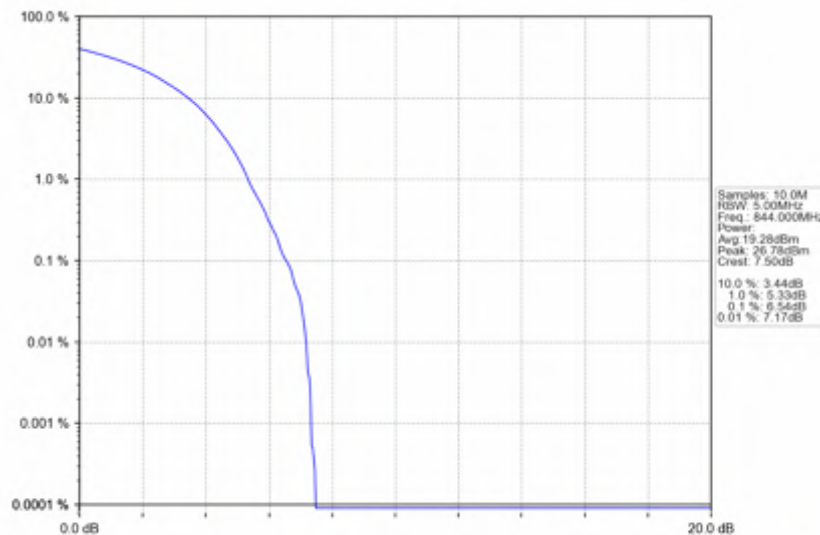
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n5_15kHz_SISO_NTV_10MHz_DFT-s-OFDM 64 QAM_836.5MHz_Outer_Full



n5_15kHz_SISO_NTV_10MHz_DFT-s-OFDM 64 QAM_844MHz_Outer_Full



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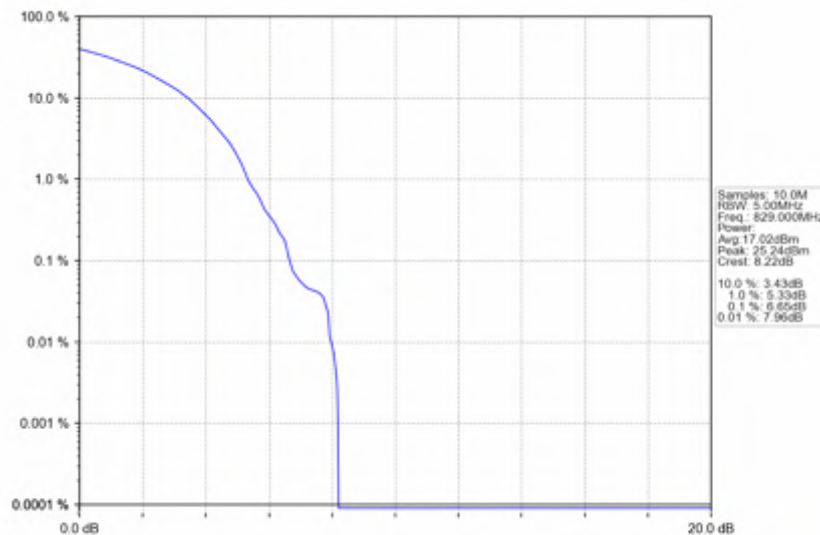
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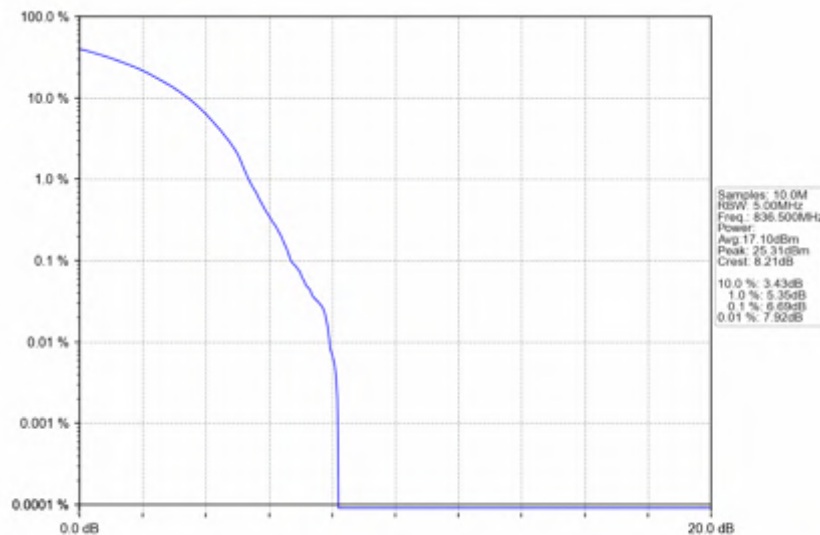
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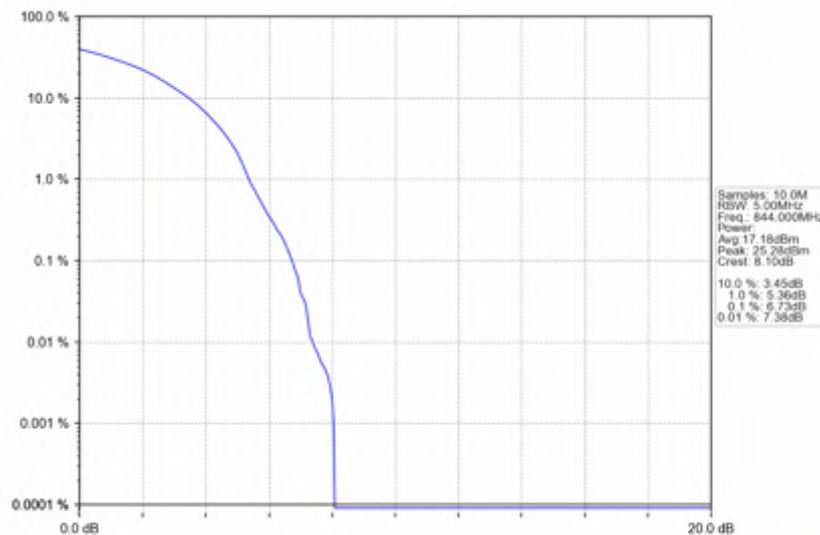


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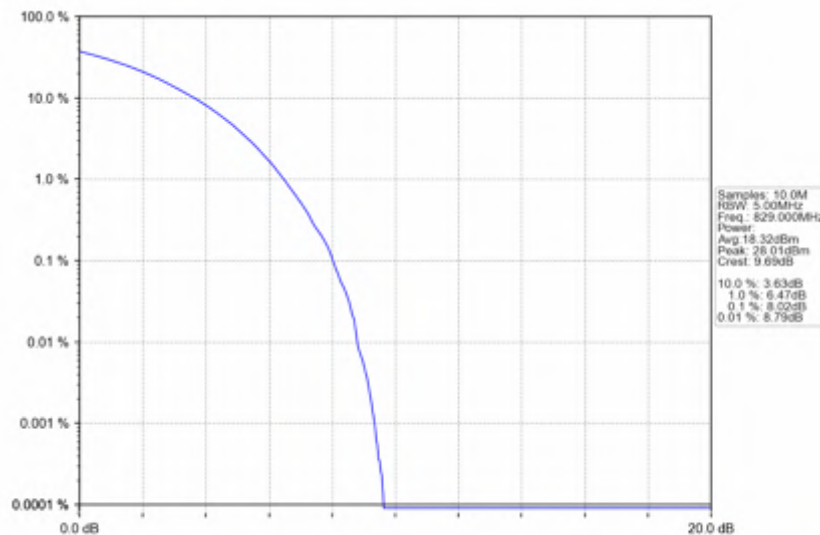
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n5_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_829MHz_Outer_Full

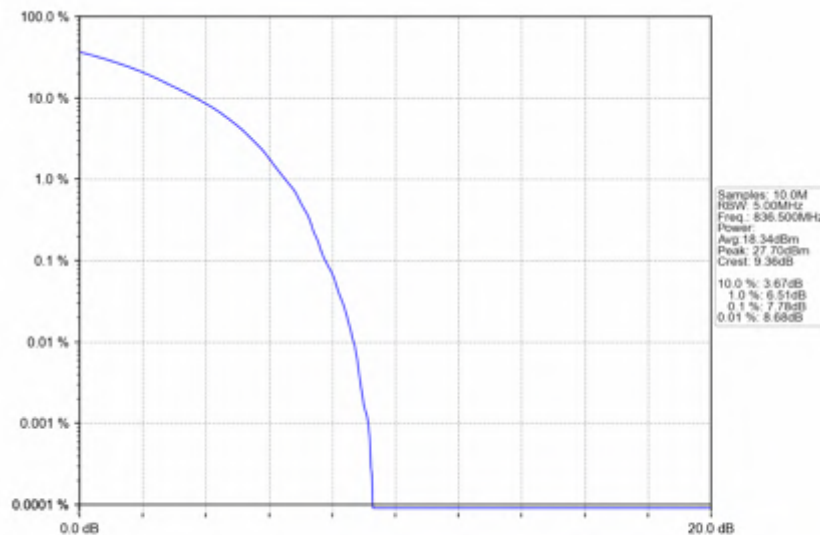


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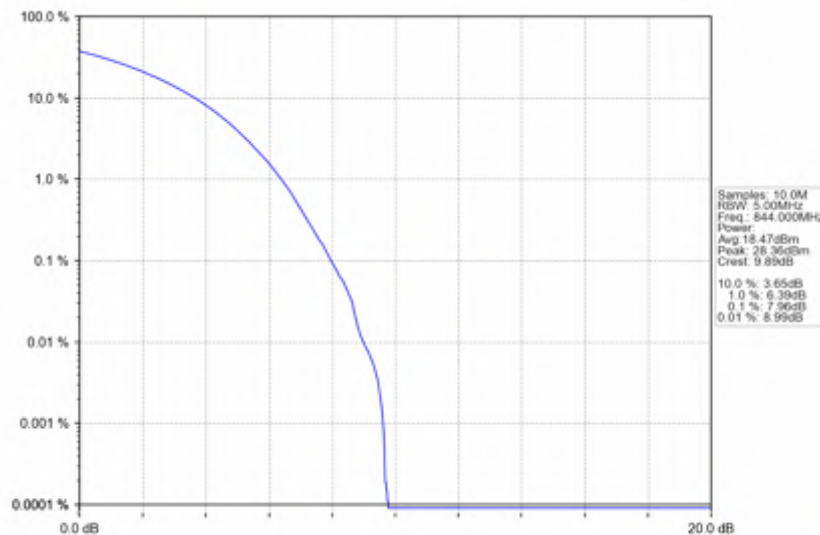
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n5_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_844MHz_Outer_Full

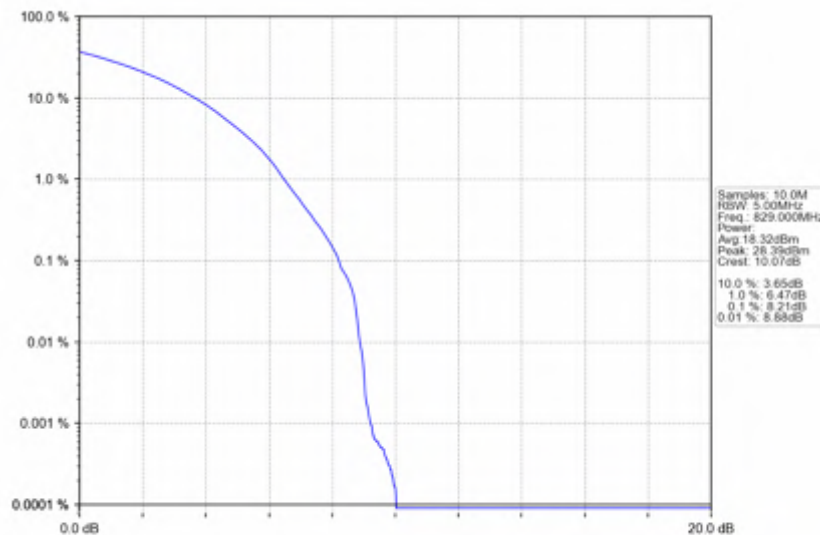


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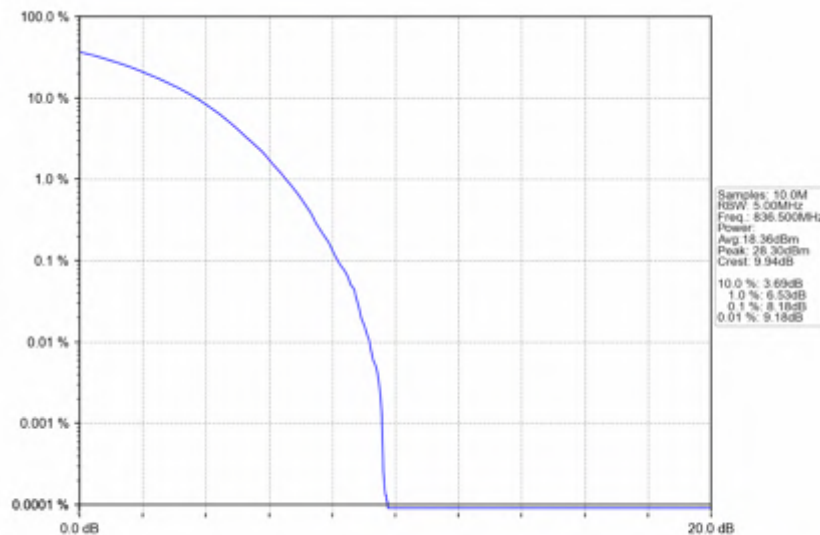
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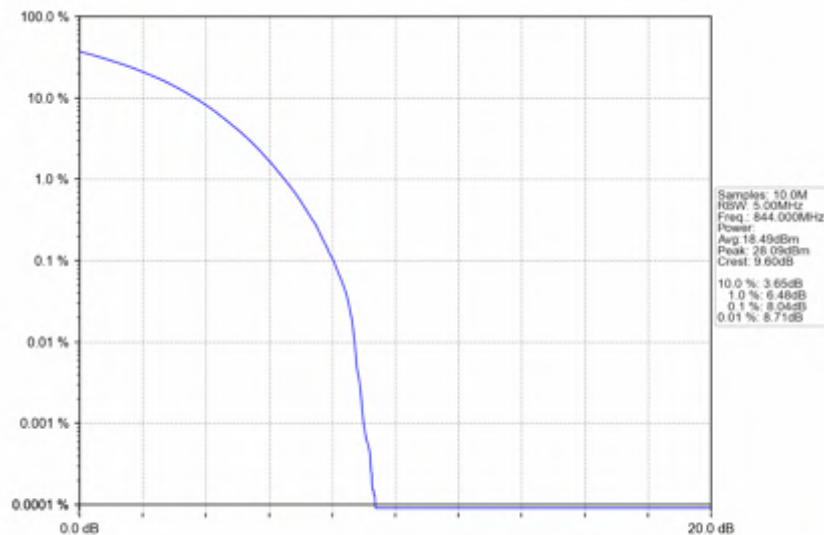


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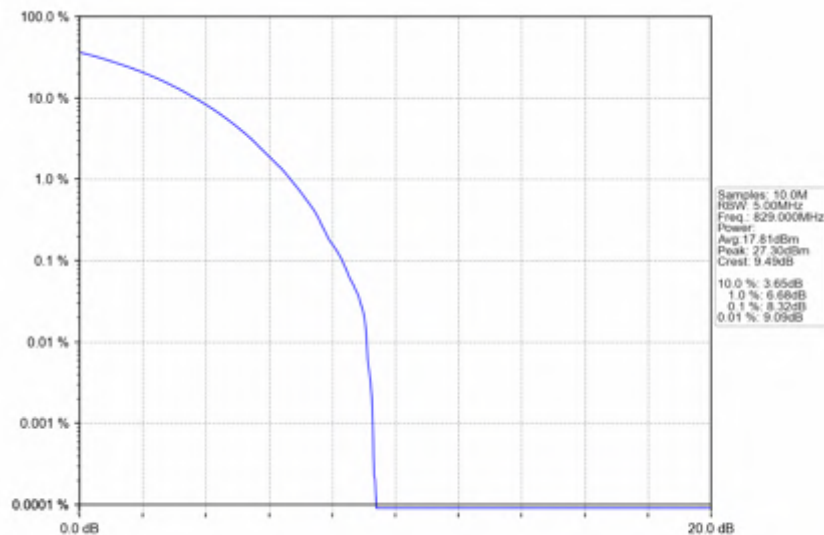
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n5_15kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_844MHz_Outer_Full



n5_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_829MHz_Outer_Full

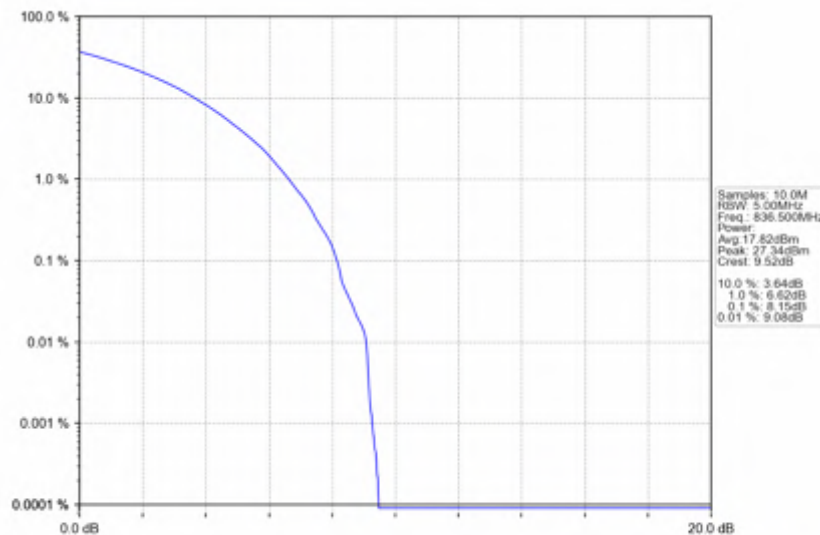


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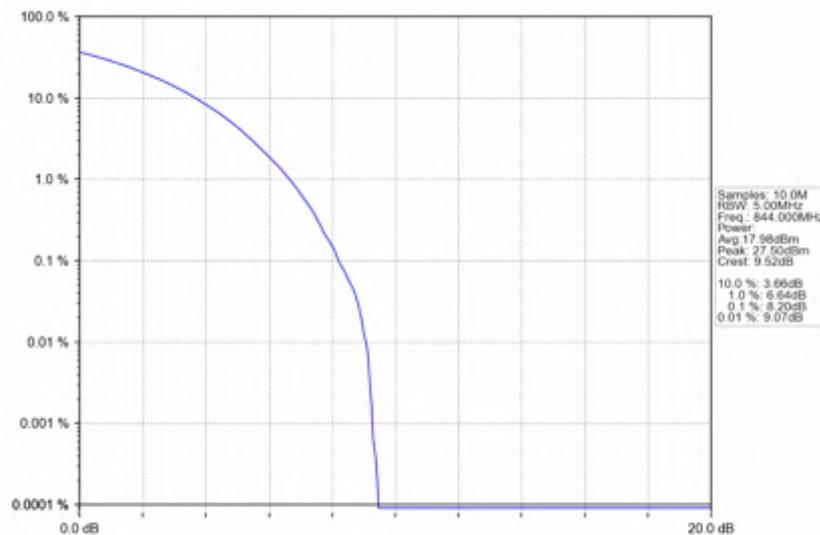
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n5_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_836.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_844MHz_Outer_Full

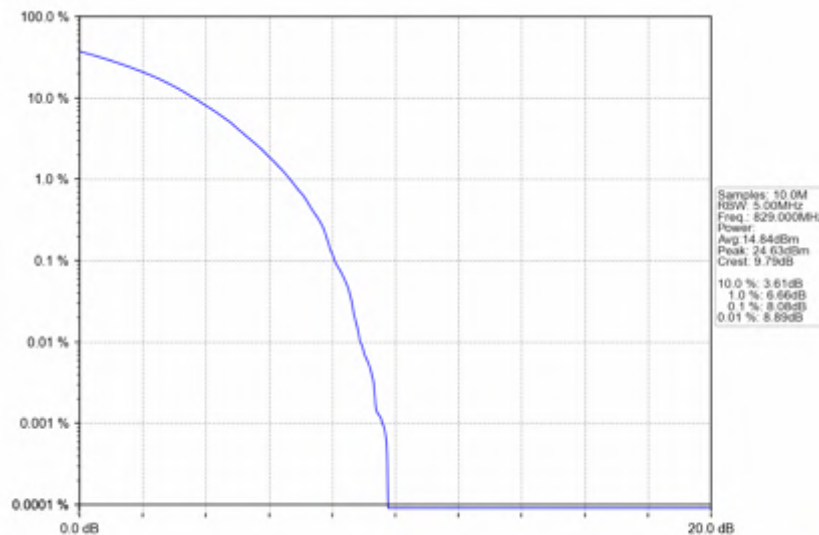


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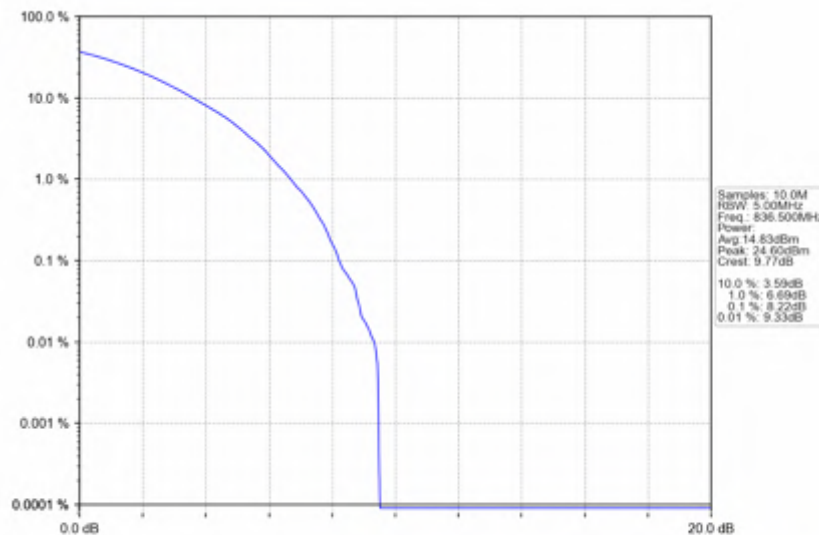
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n5_15kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_829MHz_Outer_Full



n5_15kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_836.5MHz_Outer_Full

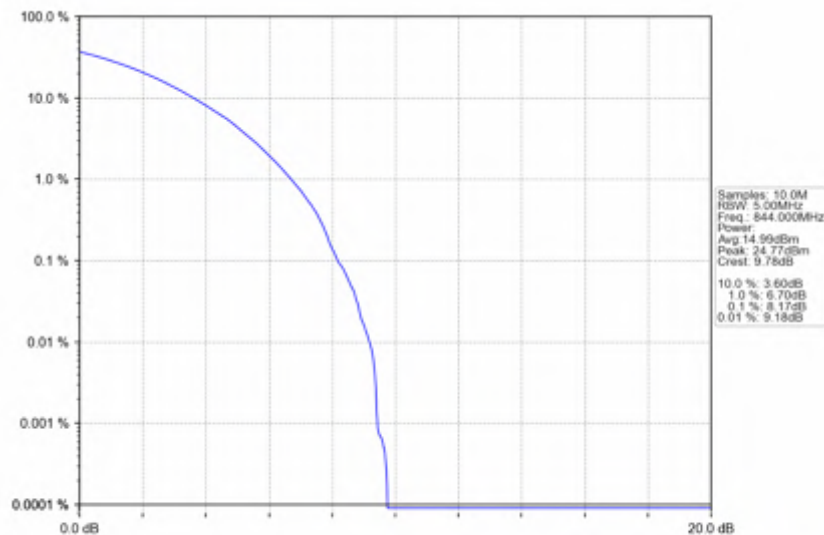


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n5_15kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_844MHz_Outer_Full



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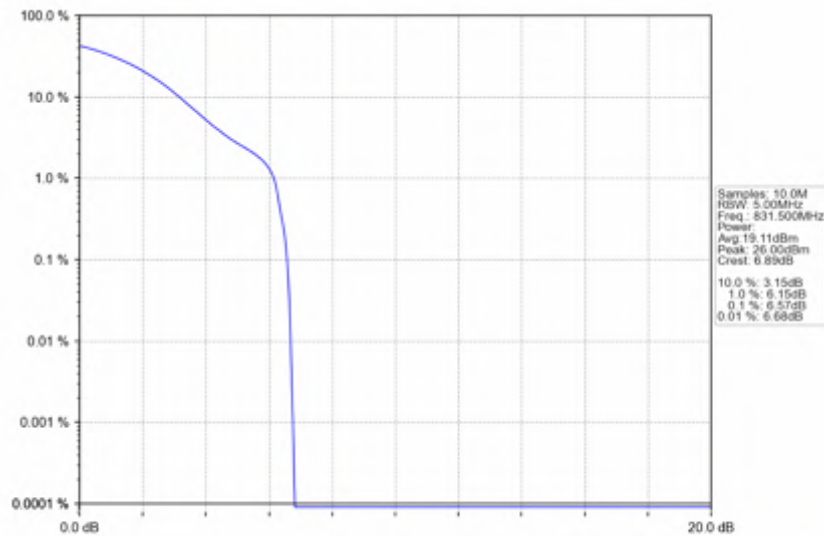
2.3 15k_SISO_15MHz_NTNV

2.3.1 Test Result

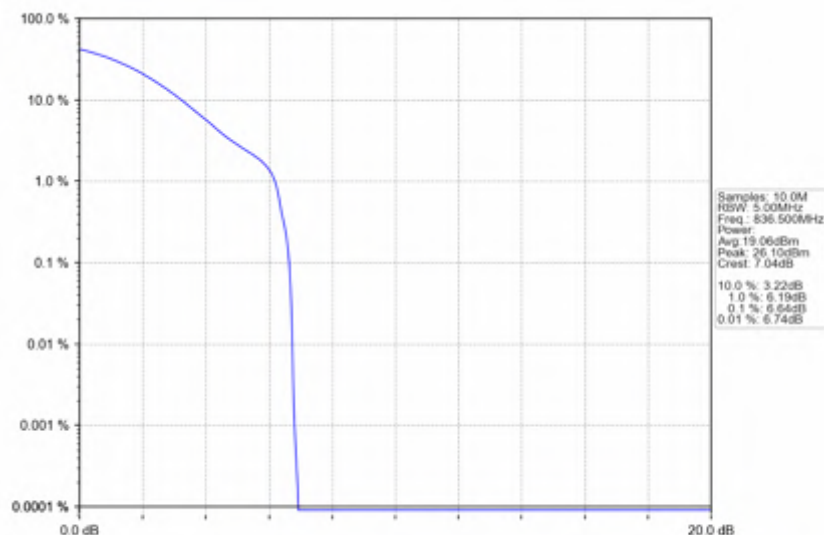
5G NR n5 SCS=15kHz SISO 15MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	831.5	Outer_Full	6.57	/	/	<=13	Pass
	836.5	Outer_Full	6.64	/	/	<=13	Pass
	841.5	Outer_Full	6.80	/	/	<=13	Pass
DFT-s-OFDM QPSK	831.5	Outer_Full	6.23	/	/	<=13	Pass
	836.5	Outer_Full	6.13	/	/	<=13	Pass
	841.5	Outer_Full	6.29	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	831.5	Outer_Full	6.97	/	/	<=13	Pass
	836.5	Outer_Full	6.91	/	/	<=13	Pass
	841.5	Outer_Full	6.91	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	831.5	Outer_Full	7.28	/	/	<=13	Pass
	836.5	Outer_Full	7.29	/	/	<=13	Pass
	841.5	Outer_Full	7.30	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	831.5	Outer_Full	7.35	/	/	<=13	Pass
	836.5	Outer_Full	7.38	/	/	<=13	Pass
	841.5	Outer_Full	7.33	/	/	<=13	Pass
CP-OFDM QPSK	831.5	Outer_Full	8.08	/	/	<=13	Pass
	836.5	Outer_Full	8.16	/	/	<=13	Pass
	841.5	Outer_Full	8.19	/	/	<=13	Pass
CP-OFDM 16 QAM	831.5	Outer_Full	8.31	/	/	<=13	Pass
	836.5	Outer_Full	8.20	/	/	<=13	Pass
	841.5	Outer_Full	8.34	/	/	<=13	Pass
CP-OFDM 64 QAM	831.5	Outer_Full	8.17	/	/	<=13	Pass
	836.5	Outer_Full	8.34	/	/	<=13	Pass
	841.5	Outer_Full	8.32	/	/	<=13	Pass
CP-OFDM 256 QAM	831.5	Outer_Full	8.41	/	/	<=13	Pass
	836.5	Outer_Full	8.49	/	/	<=13	Pass
	841.5	Outer_Full	8.42	/	/	<=13	Pass

2.3.2 Test Graph

n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_PI/2_BPSK_831.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_PI/2_BPSK_836.5MHz_Outer_Full

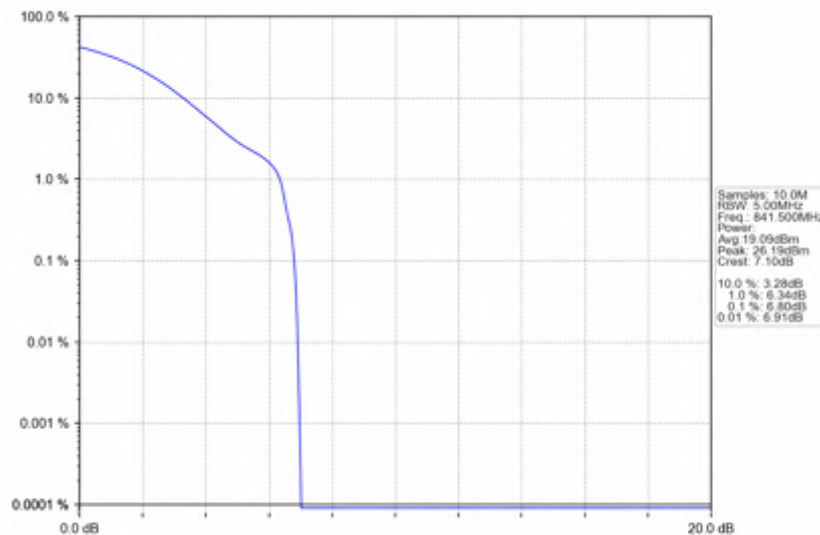


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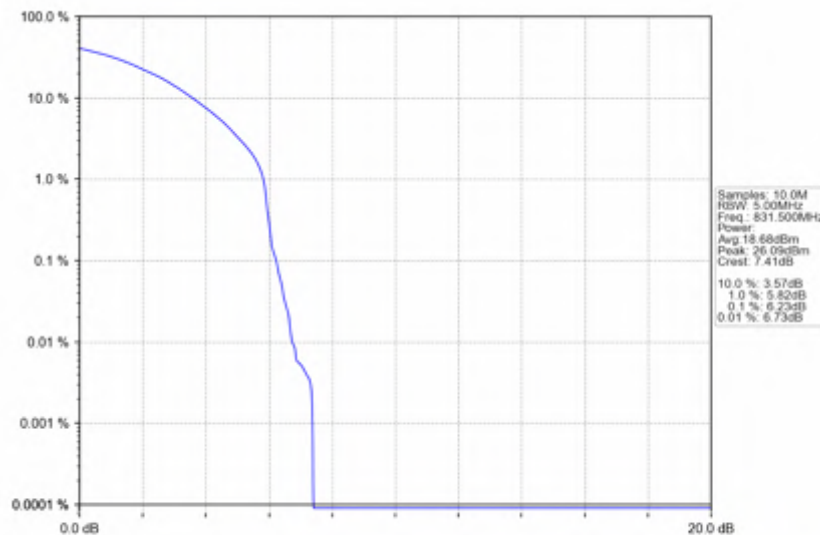
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n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_831.5MHz_Outer_Full

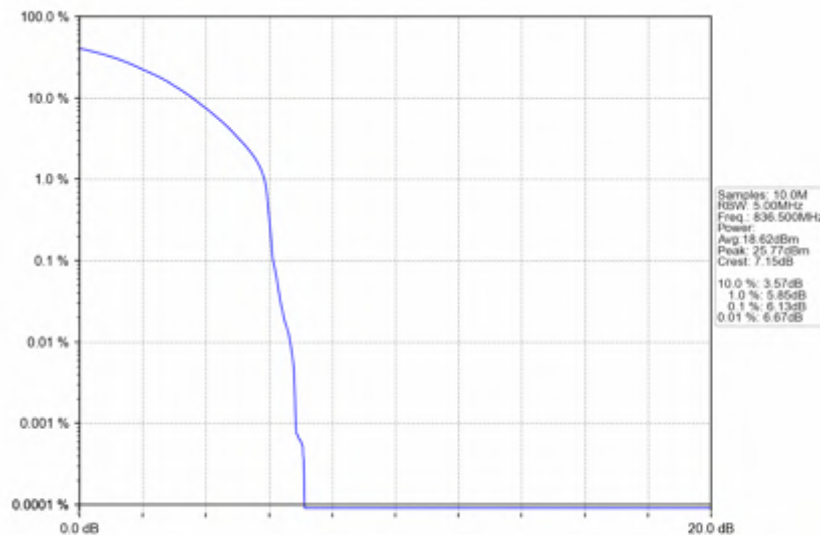


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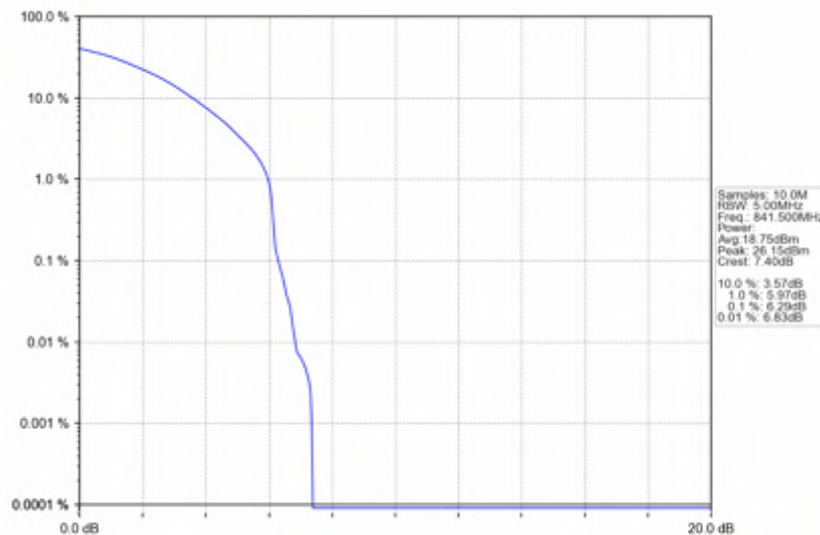
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n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_836.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_841.5MHz_Outer_Full



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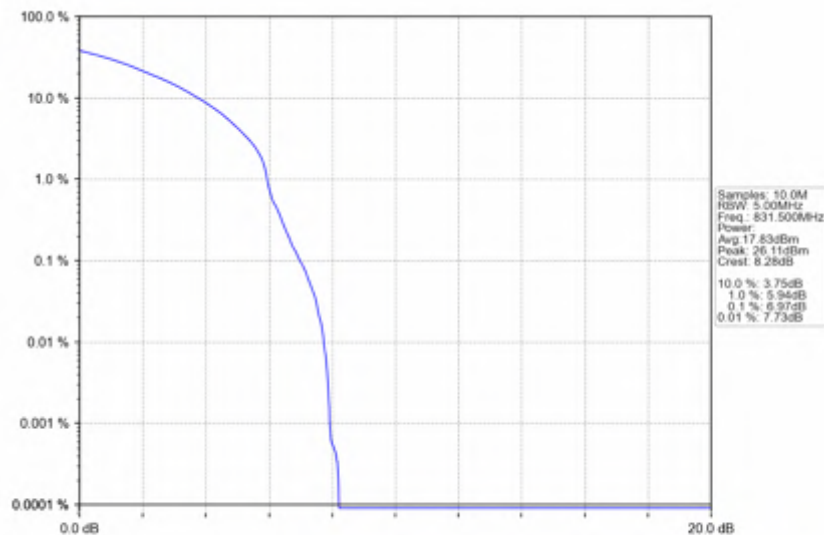
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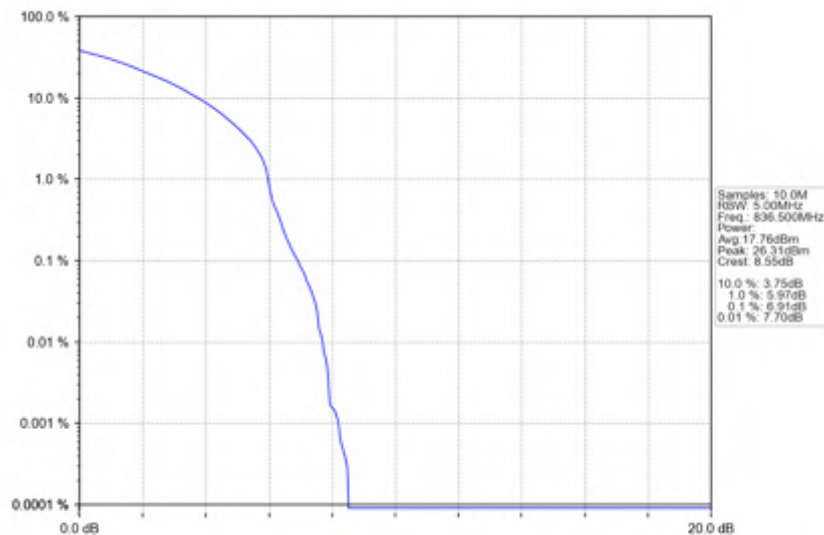
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n5_15kHz_SISO_NTV_15MHz_DFT-s-OFDM_16_QAM_836.5MHz_Outer_Full



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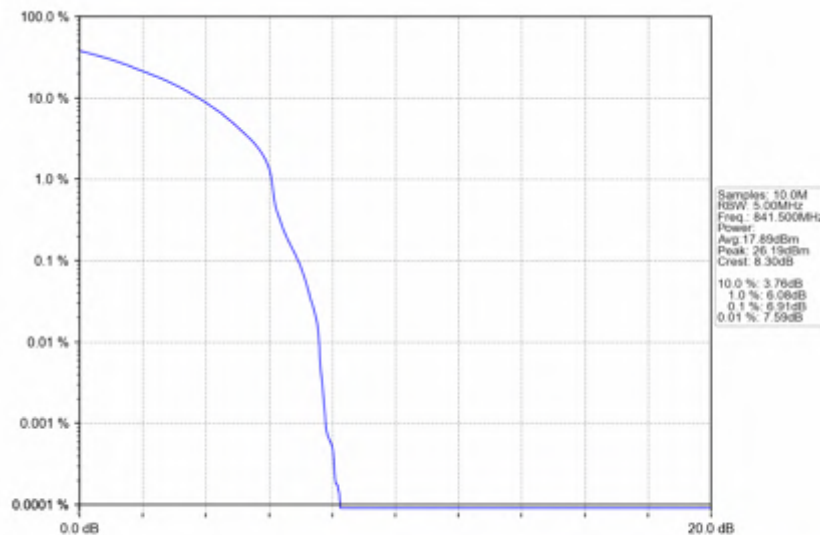
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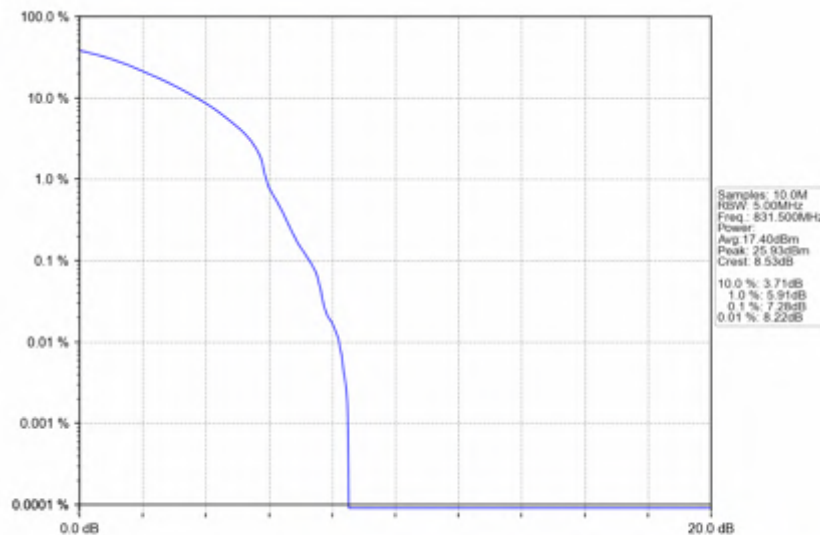
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n5_15kHz_SISO_NTV_15MHz_DFT-s-OFDM 64 QAM_831.5MHz_Outer_Full

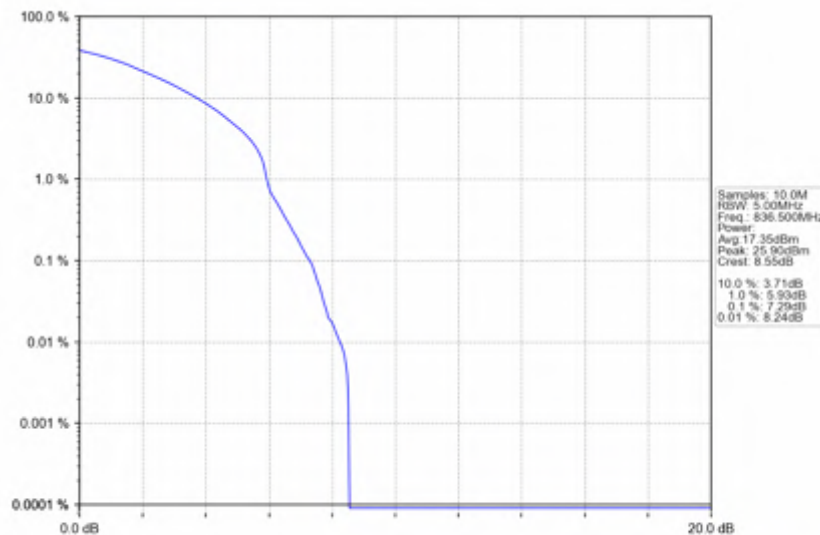


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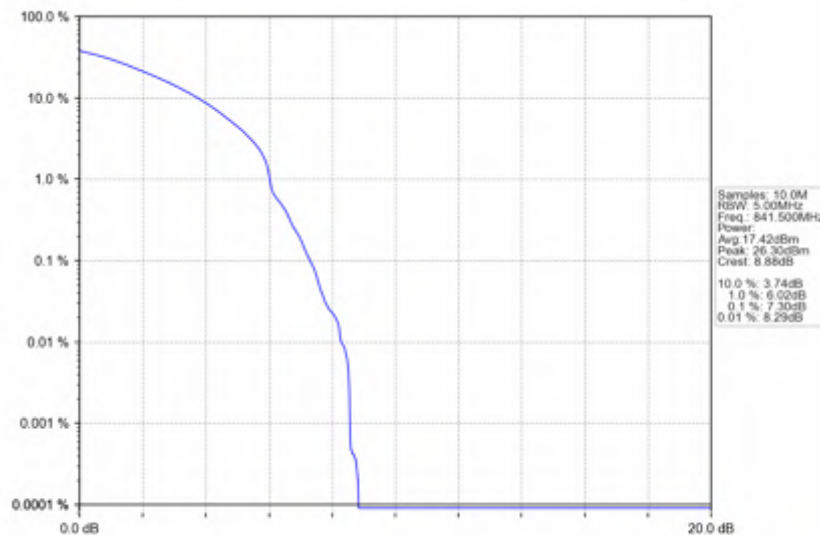
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n5 15kHz SISO NTN 15MHz DFT-s-OFDM 64 QAM 836.5MHz Outer Full



n5	15kHz	SISO	NTNV	15MHz	DFT-s-OFDM	64 QAM	841.5MHz	Outer	Full
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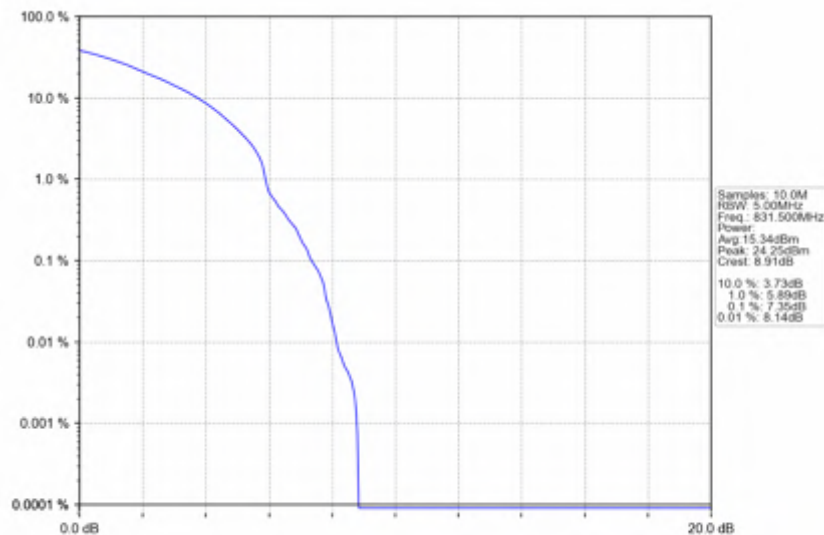


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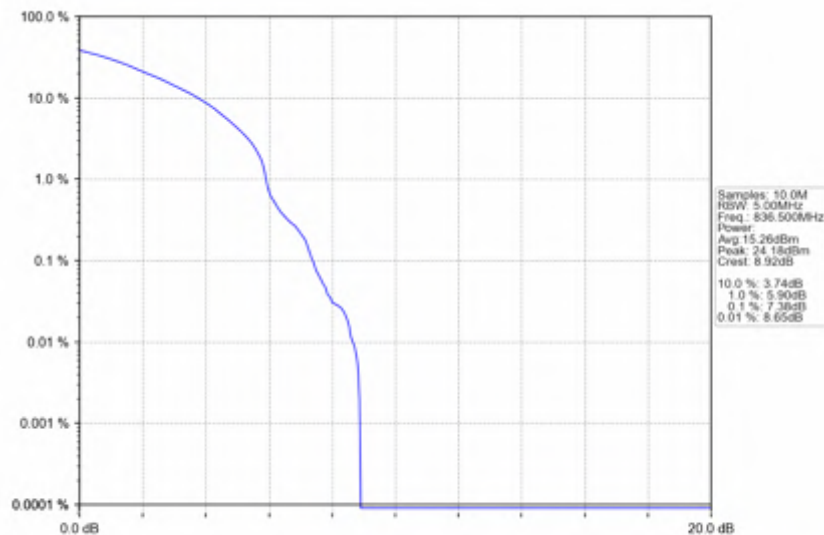
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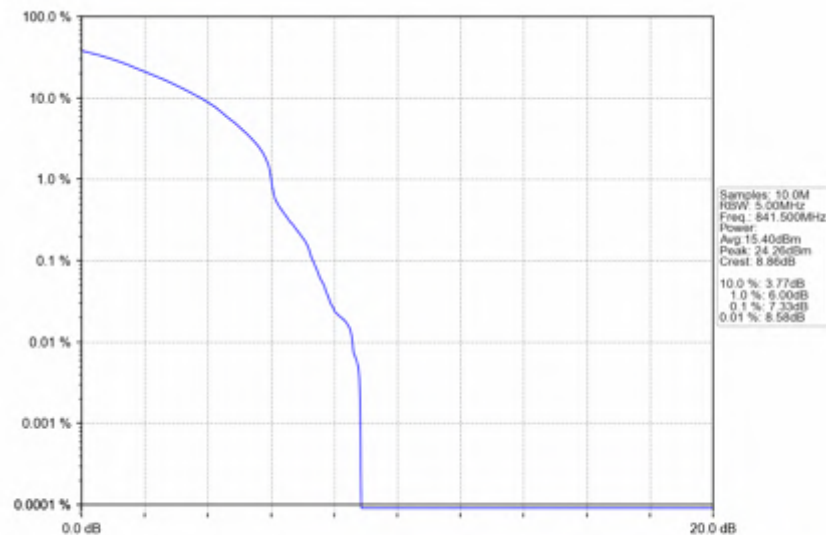


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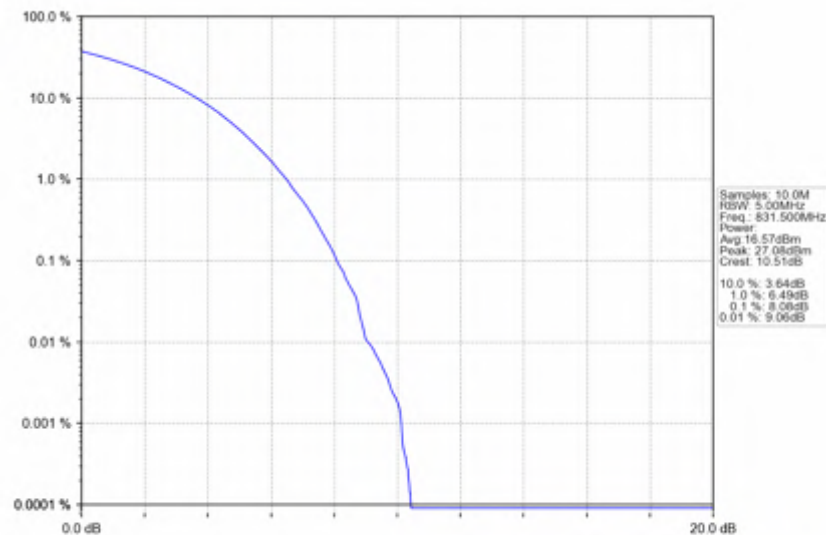
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n5_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_841.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_15MHz_CP-OFDM_QPSK_831.5MHz_Outer_Full

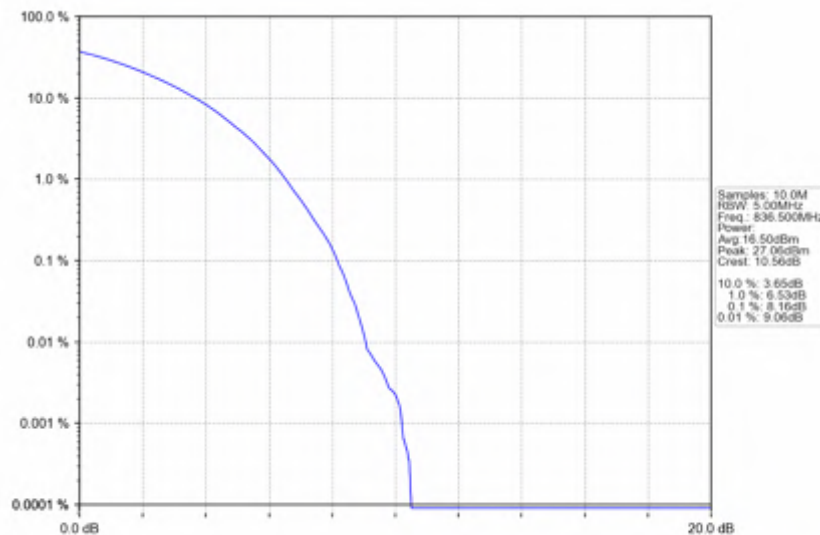


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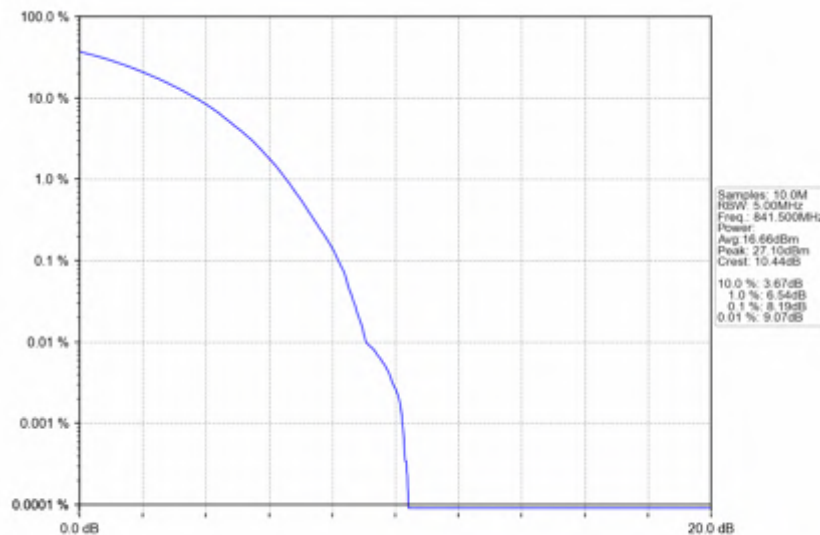
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n5_15kHz_SISO_NTNV_15MHz_CP-OFDM_QPSK_836.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_15MHz_CP-OFDM_QPSK_841.5MHz_Outer_Full



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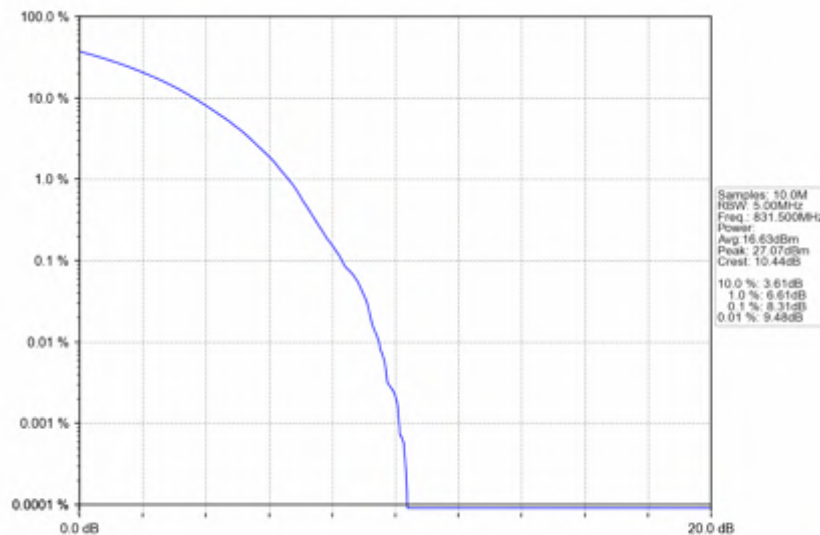
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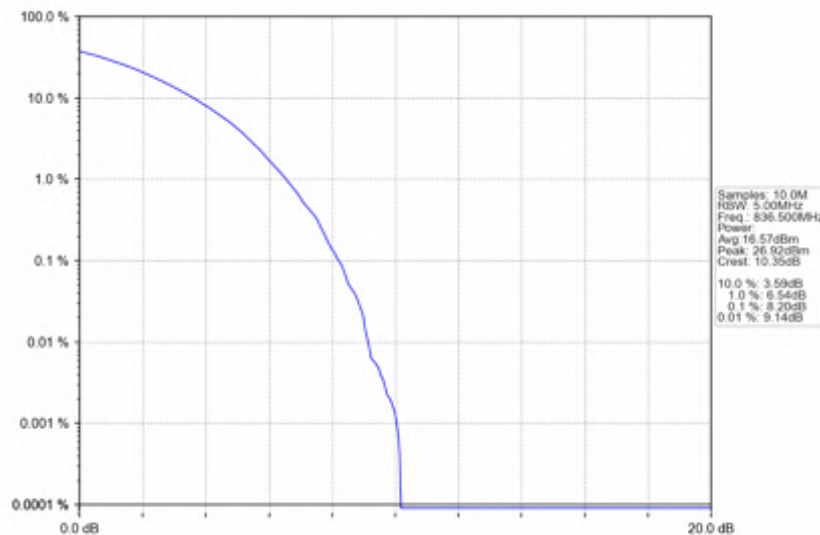
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n5_15kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_831.5MHz_Outer_Full



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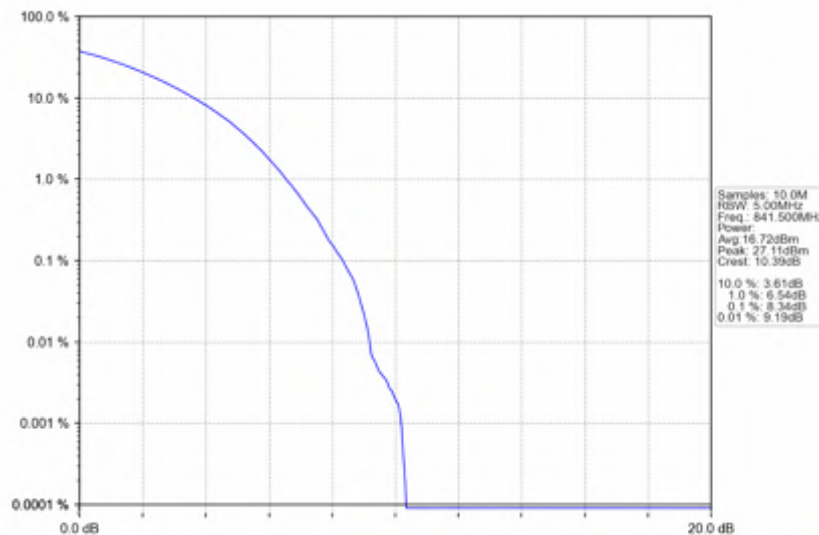


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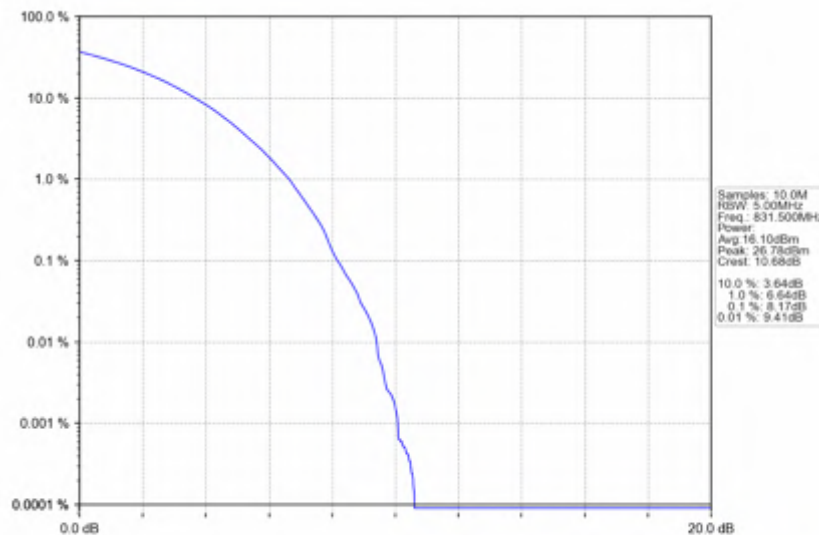
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n5_15kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_841.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_831.5MHz_Outer_Full



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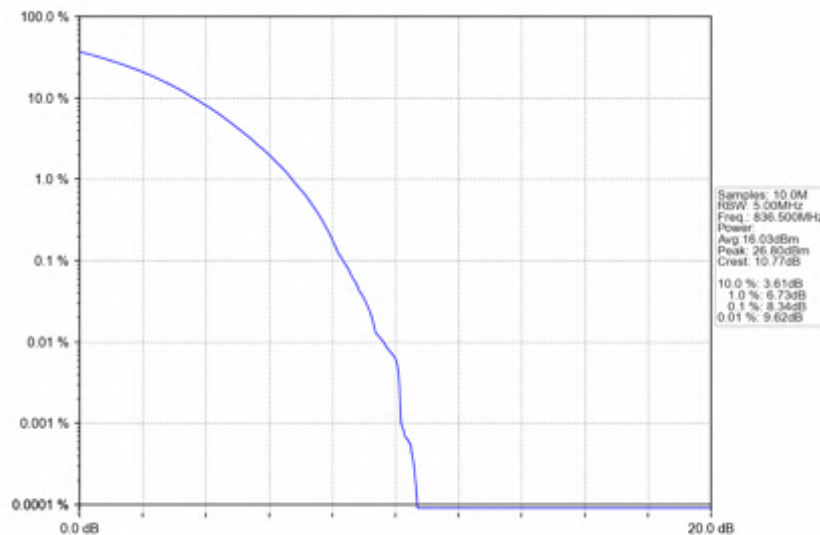
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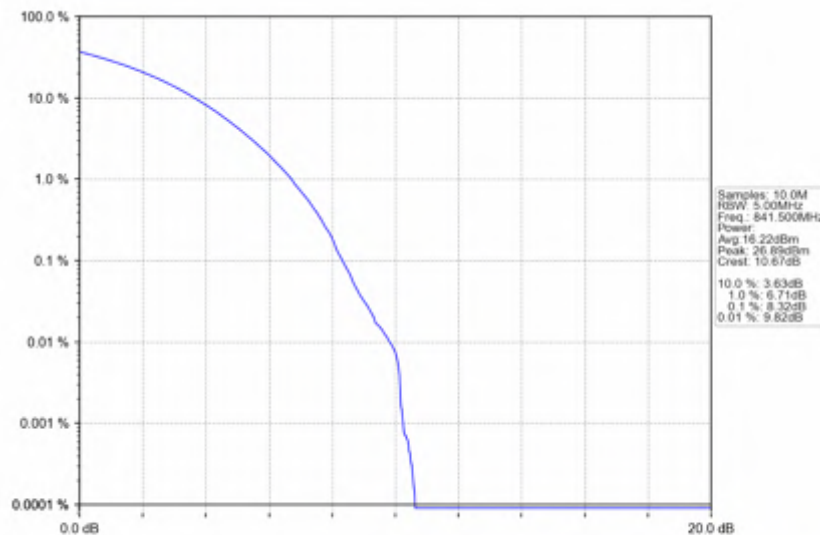
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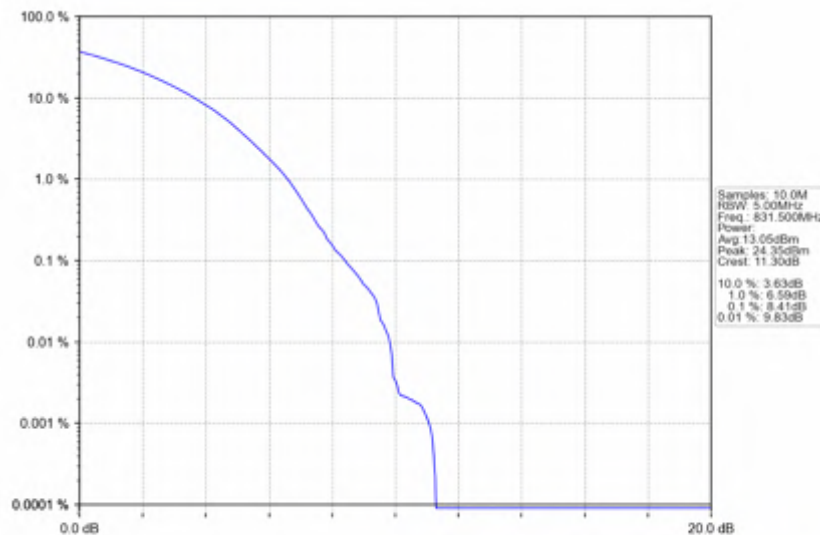
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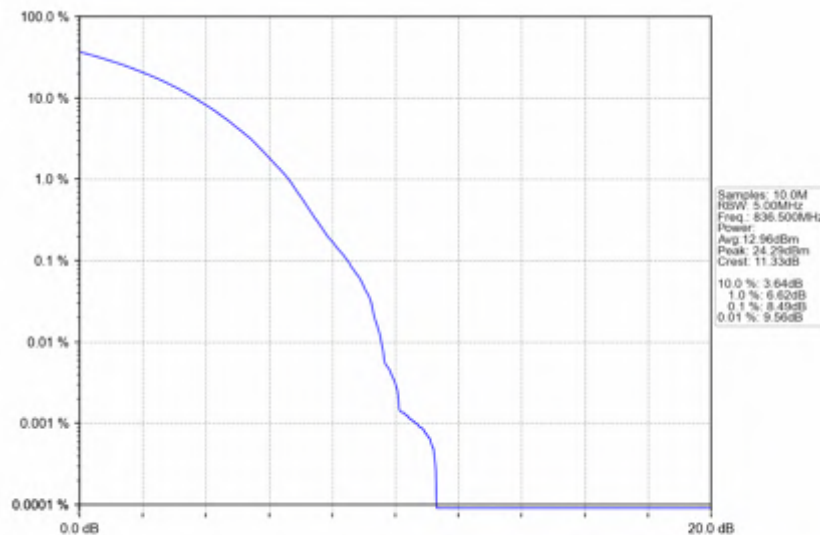
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n5_15kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_831.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_836.5MHz_Outer_Full



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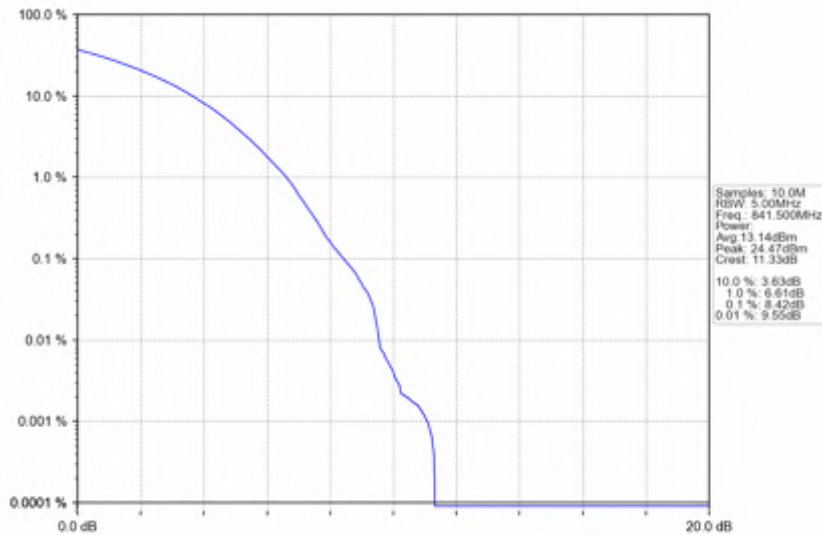
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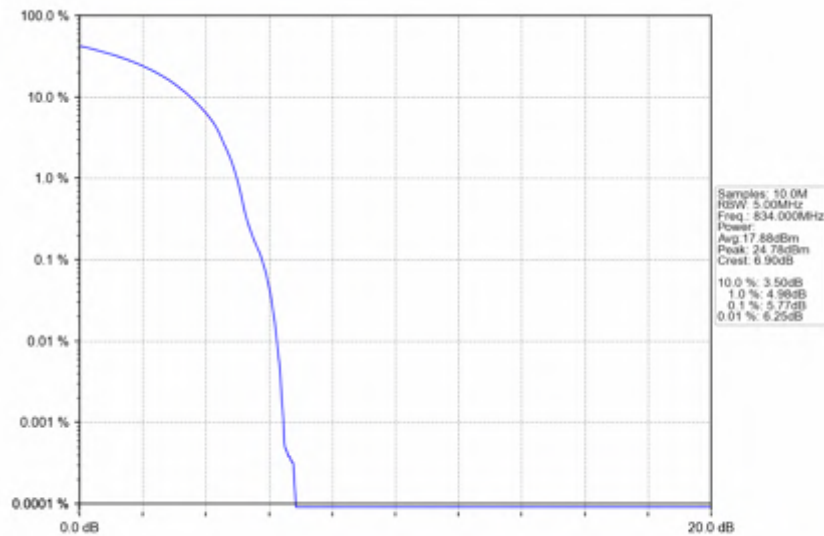
2.4 15k_SISO_20MHz_NTNV

2.4.1 Test Result

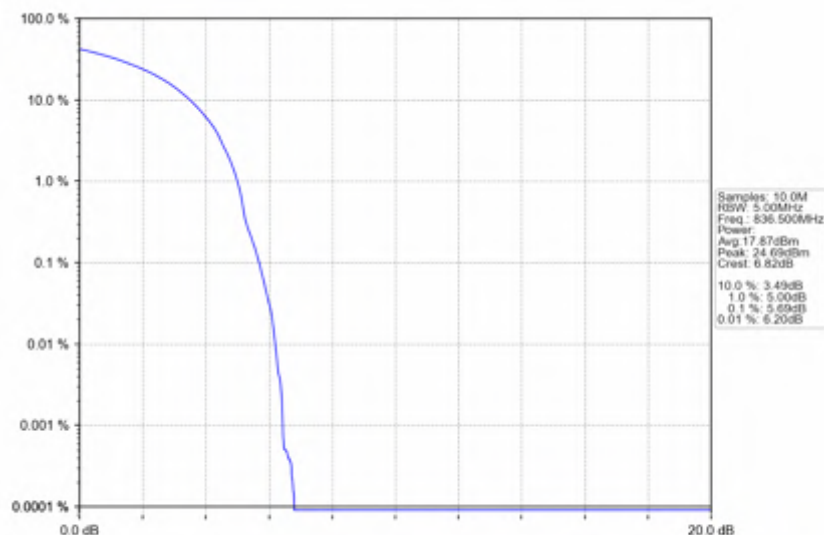
5G NR n5 SCS=15kHz SISO 20MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	834	Outer_Full	5.77	/	/	<=13	Pass
	836.5	Outer_Full	5.69	/	/	<=13	Pass
	839	Outer_Full	5.77	/	/	<=13	Pass
DFT-s-OFDM QPSK	834	Outer_Full	6.85	/	/	<=13	Pass
	836.5	Outer_Full	6.66	/	/	<=13	Pass
	839	Outer_Full	6.60	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	834	Outer_Full	7.19	/	/	<=13	Pass
	836.5	Outer_Full	7.51	/	/	<=13	Pass
	839	Outer_Full	7.47	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	834	Outer_Full	7.54	/	/	<=13	Pass
	836.5	Outer_Full	7.59	/	/	<=13	Pass
	839	Outer_Full	7.81	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	834	Outer_Full	7.43	/	/	<=13	Pass
	836.5	Outer_Full	7.17	/	/	<=13	Pass
	839	Outer_Full	7.26	/	/	<=13	Pass
CP-OFDM QPSK	834	Outer_Full	8.40	/	/	<=13	Pass
	836.5	Outer_Full	8.30	/	/	<=13	Pass
	839	Outer_Full	8.51	/	/	<=13	Pass
CP-OFDM 16 QAM	834	Outer_Full	8.32	/	/	<=13	Pass
	836.5	Outer_Full	8.34	/	/	<=13	Pass
	839	Outer_Full	8.32	/	/	<=13	Pass
CP-OFDM 64 QAM	834	Outer_Full	8.37	/	/	<=13	Pass
	836.5	Outer_Full	8.33	/	/	<=13	Pass
	839	Outer_Full	8.63	/	/	<=13	Pass
CP-OFDM 256 QAM	834	Outer_Full	8.32	/	/	<=13	Pass
	836.5	Outer_Full	8.34	/	/	<=13	Pass
	839	Outer_Full	8.41	/	/	<=13	Pass

2.4.2 Test Graph

n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_PI/2_BPSK_834MHz_Outer_Full



n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_PI/2_BPSK_836.5MHz_Outer_Full

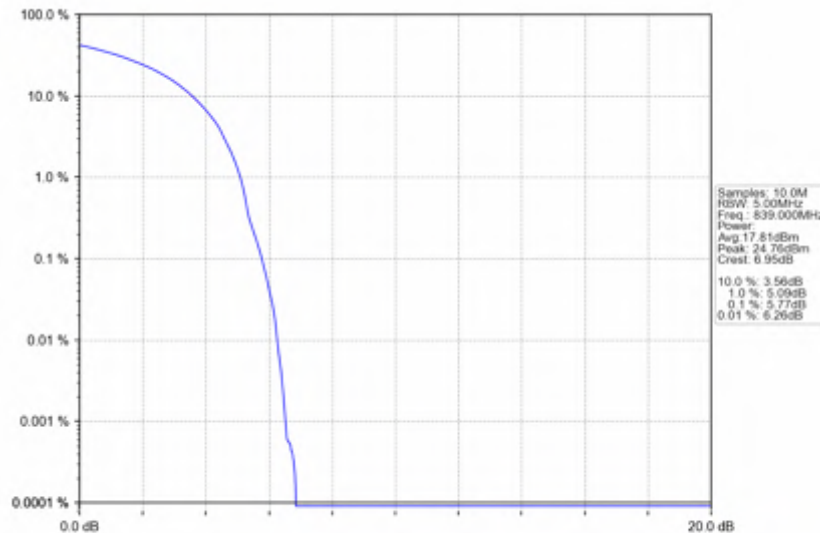


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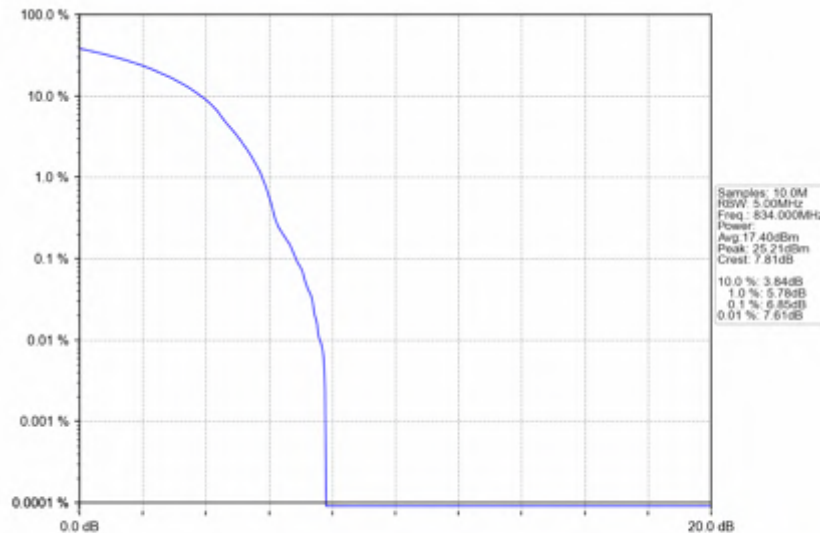
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n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_839MHz_Outer_Full



n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_834MHz_Outer_Full



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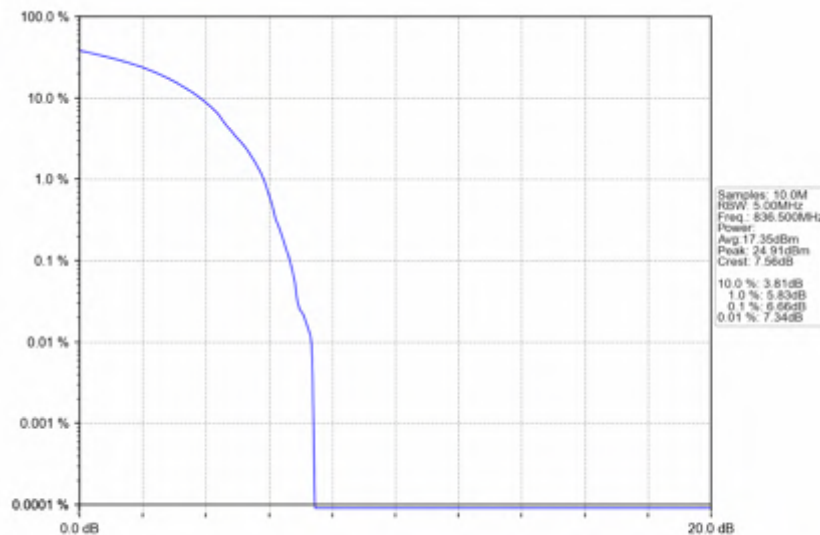
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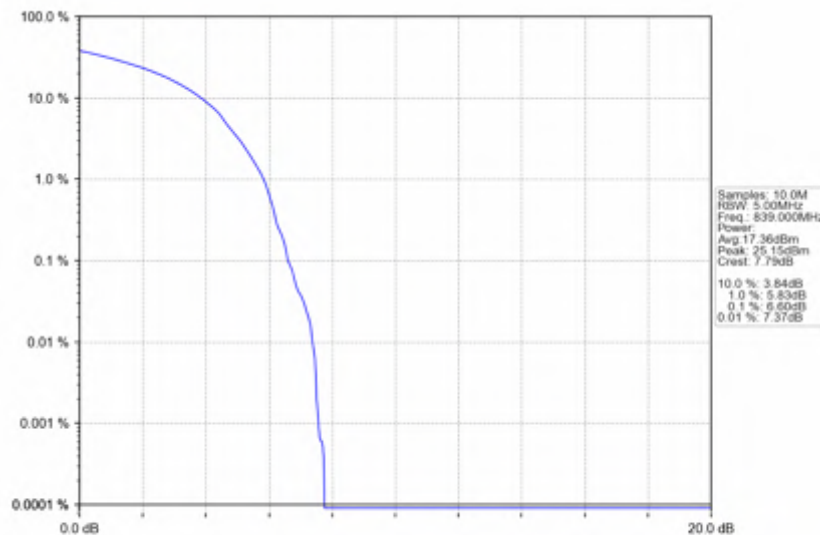
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n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_839MHz_Outer_Full



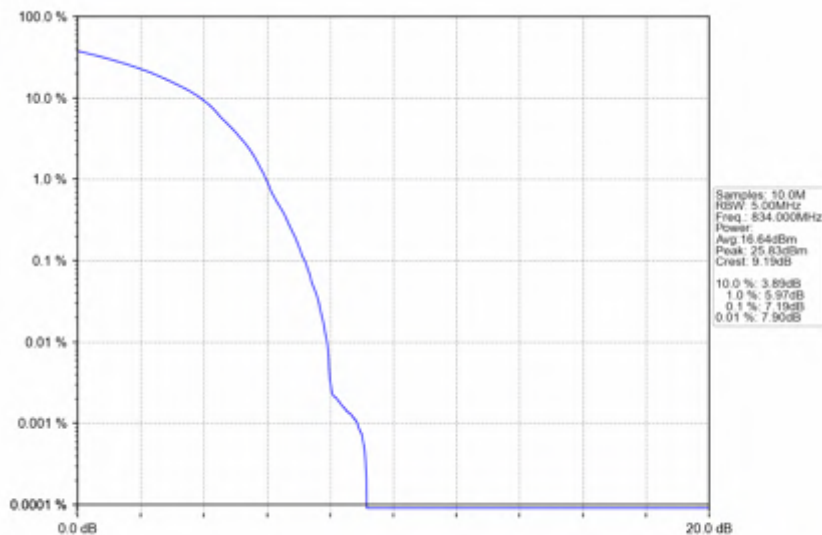
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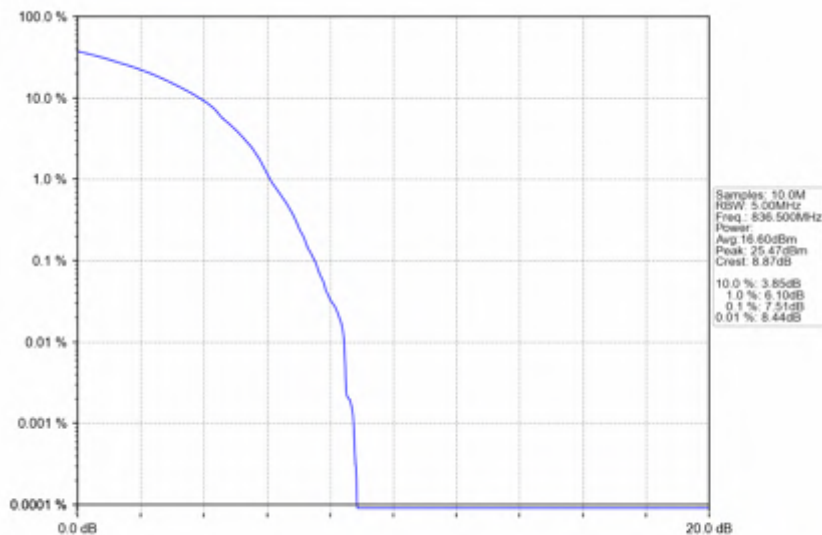
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n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_836.5MHz_Outer_Full

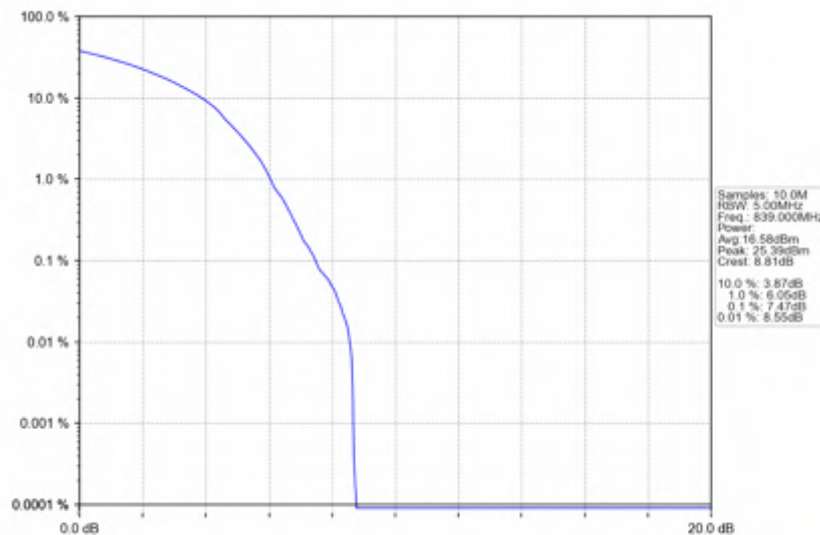


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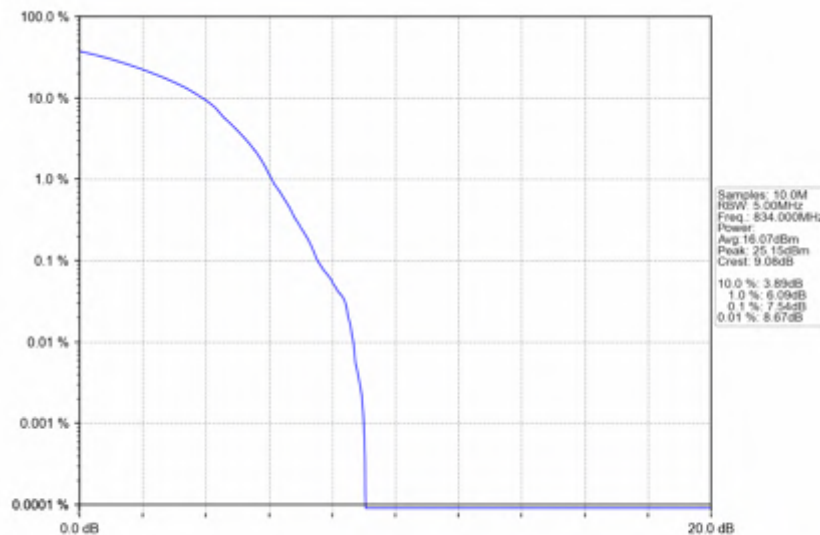
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n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_839MHz_Outer_Full



n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_834MHz_Outer_Full



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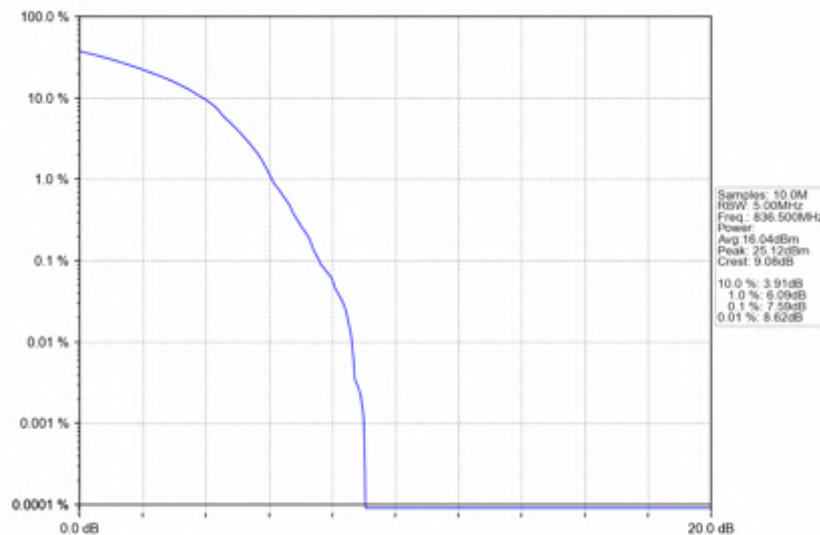
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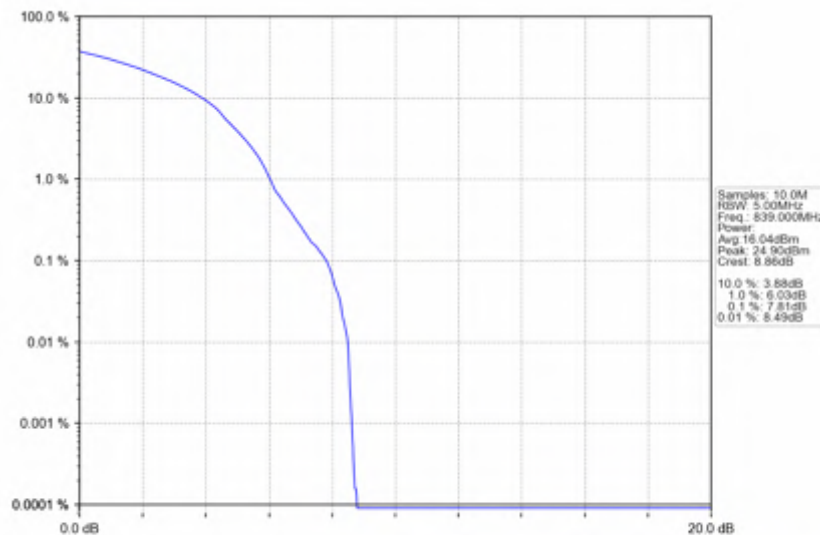
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n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_836.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_839MHz_Outer_Full

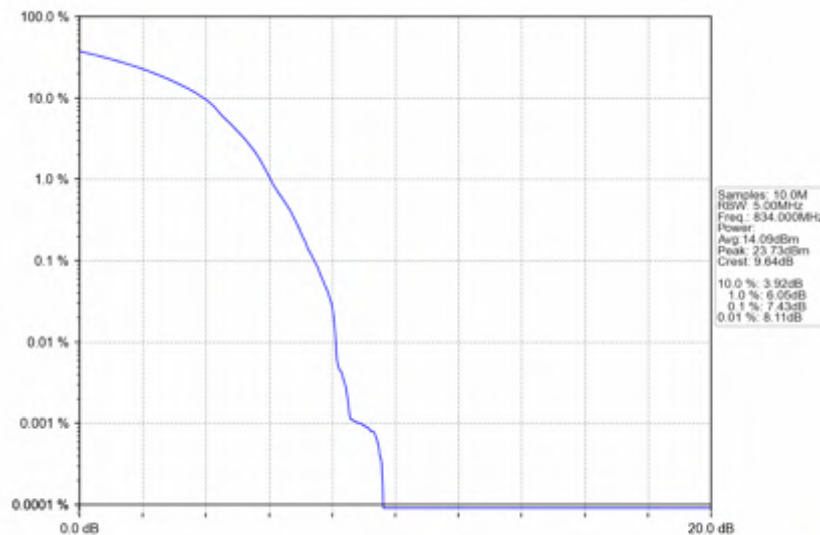


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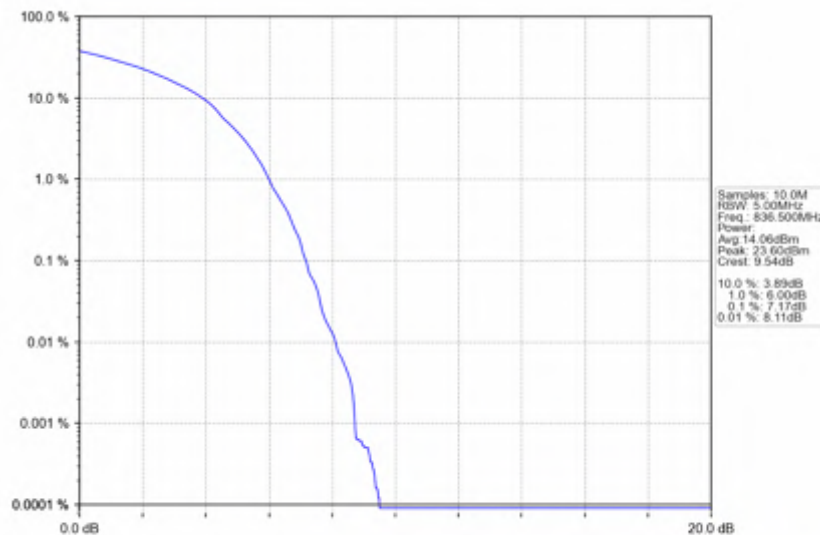
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n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_834MHz_Outer_Full



n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_836.5MHz_Outer_Full



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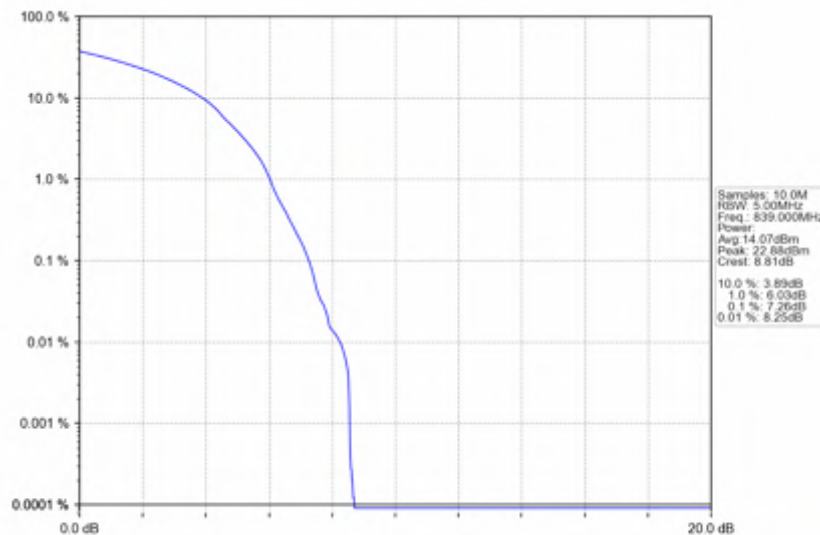
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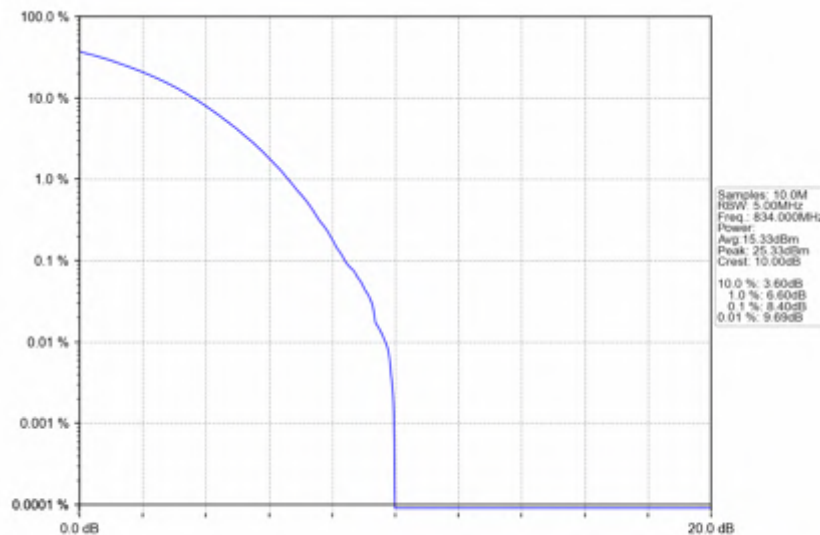
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n5_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_839MHz_Outer_Full



n5_15kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_834MHz_Outer_Full

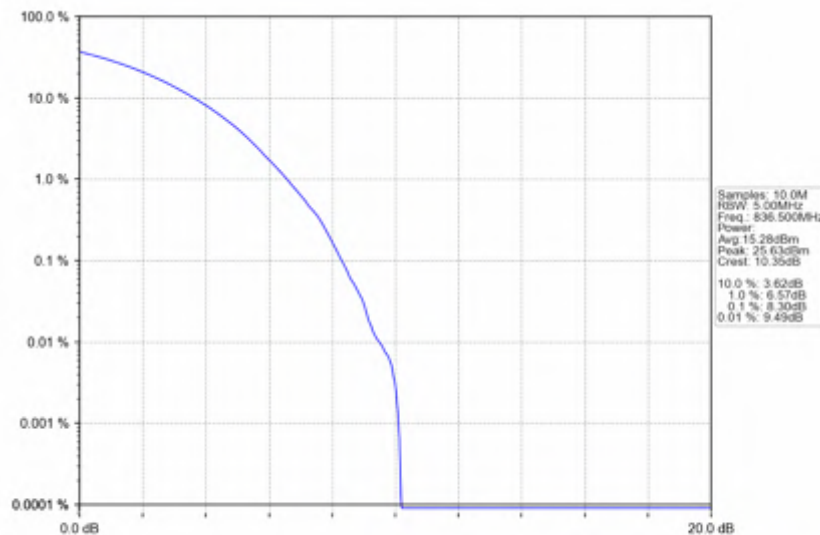


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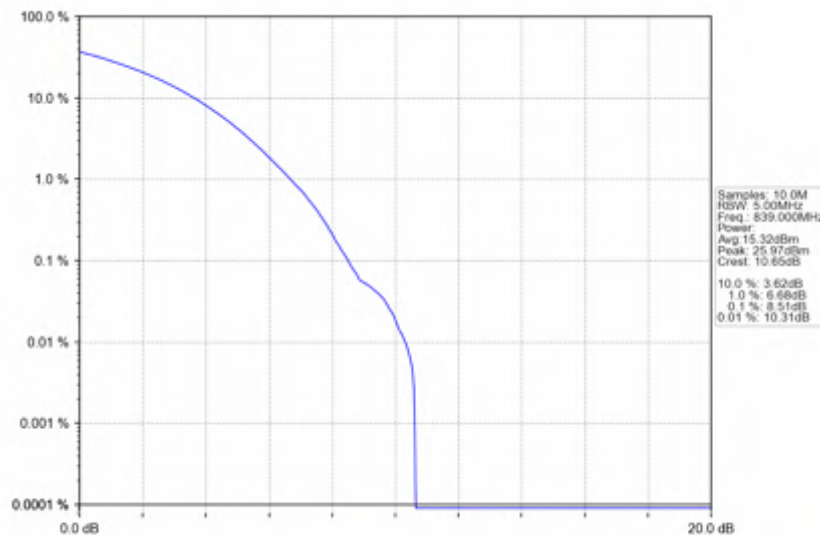
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n5_15kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_836.5MHz_Outer_Full



n5_15kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_839MHz_Outer_Full

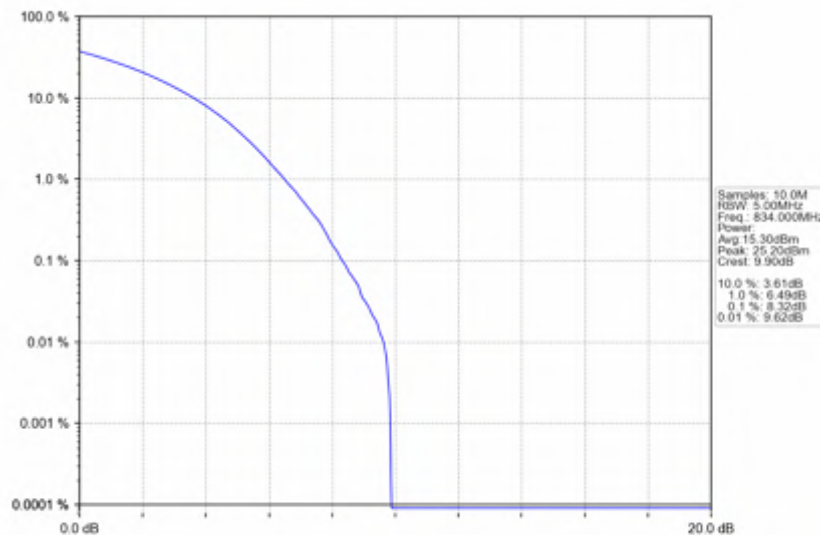


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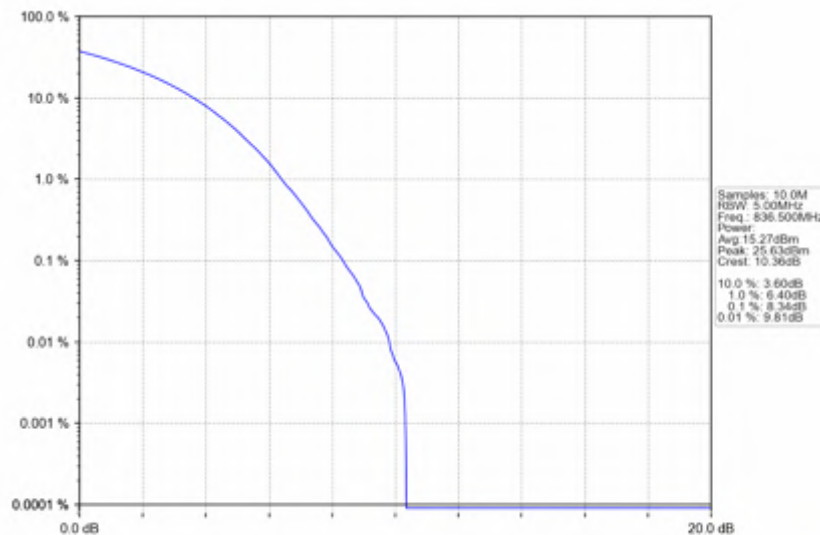
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n5_15kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_836.5MHz_Outer_Full

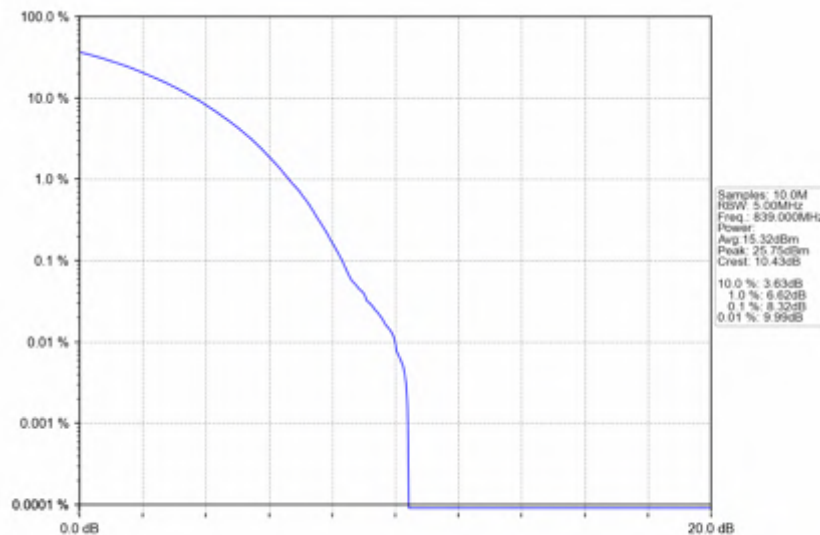


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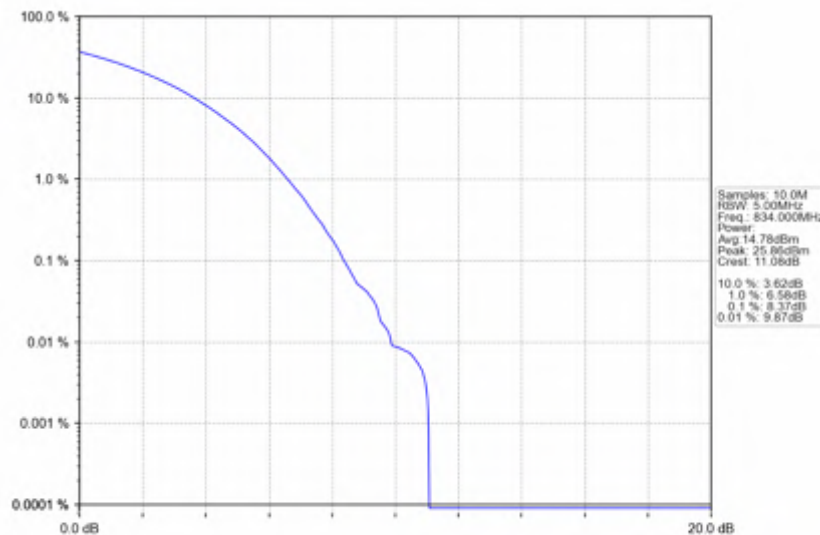
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n5_15kHz_SISO_NTNV_20MHz_CP-OFDM_16 QAM_839MHz_Outer_Full



n5_15kHz_SISO_NTNV_20MHz_CP-OFDM_64 QAM_834MHz_Outer_Full

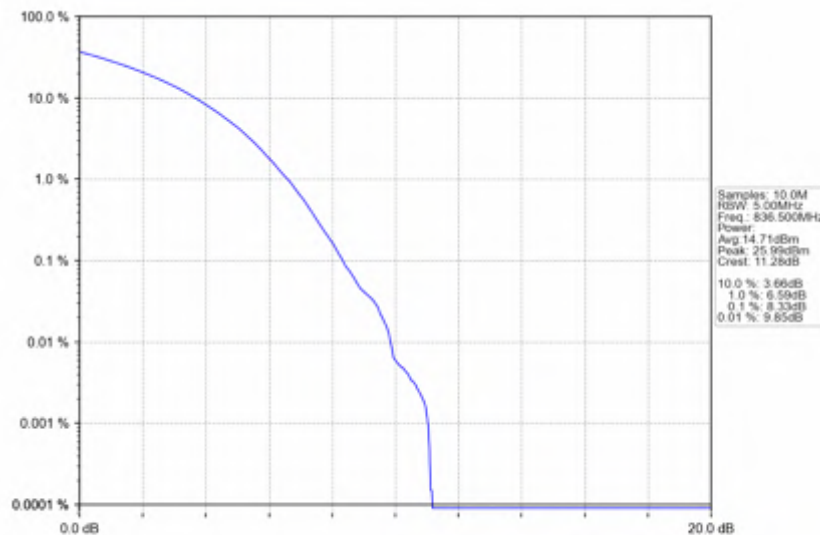


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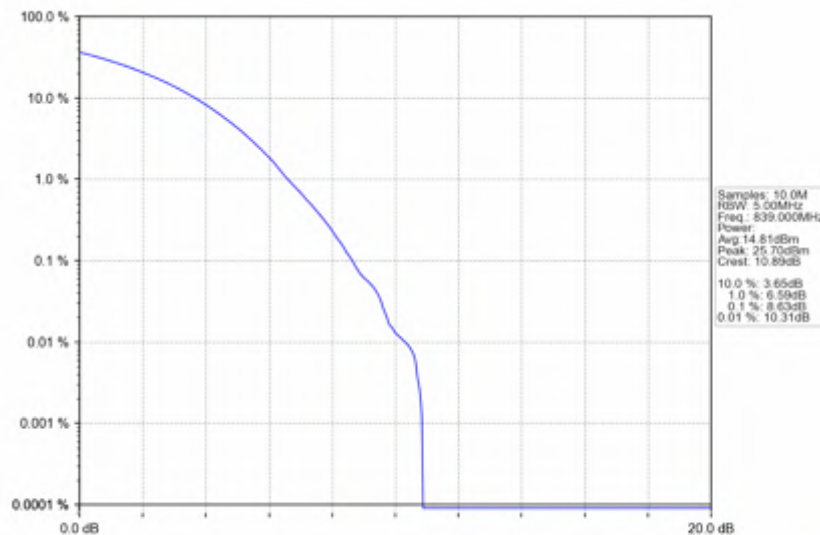
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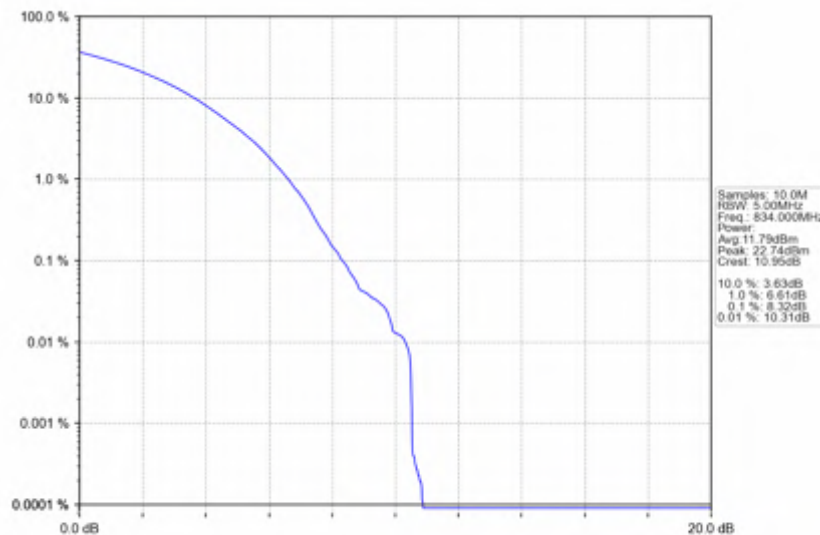


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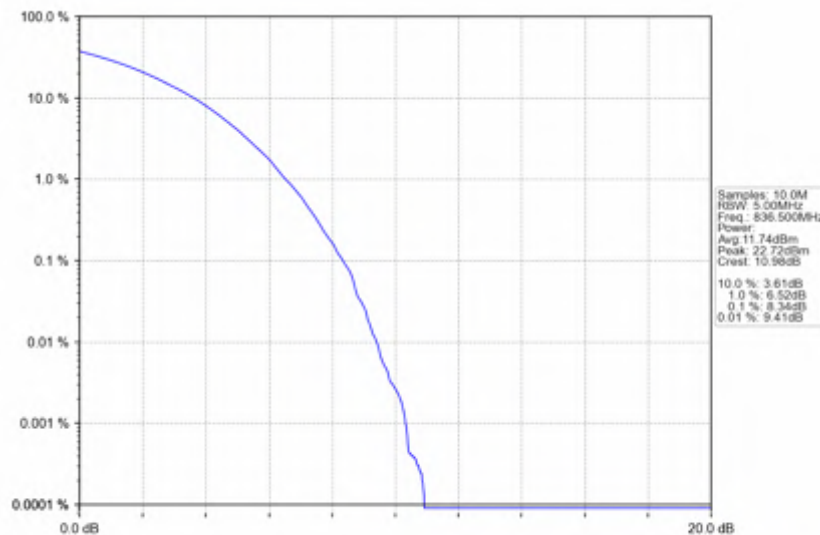
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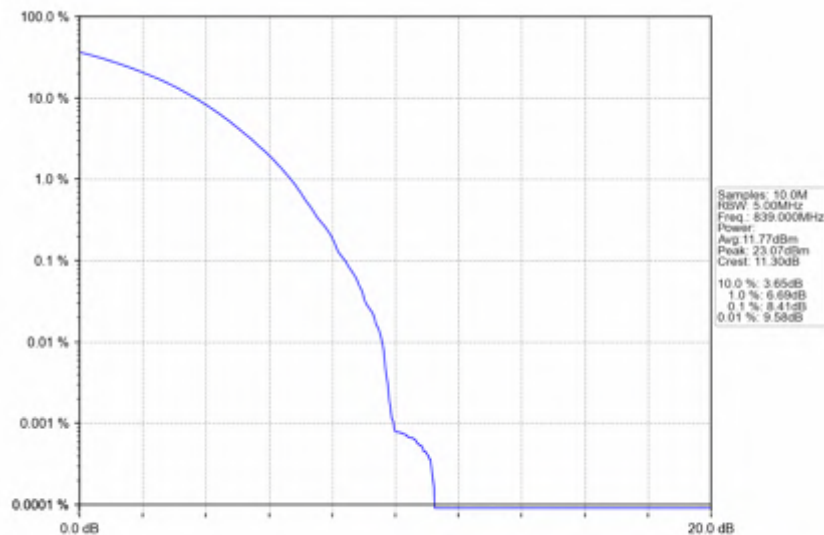


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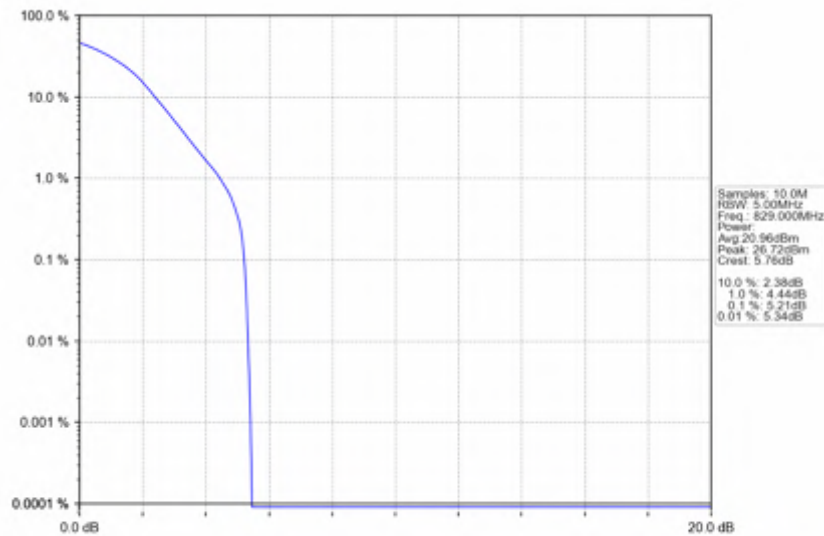
2.5 30k_SISO_10MHz_NTNV

2.5.1 Test Result

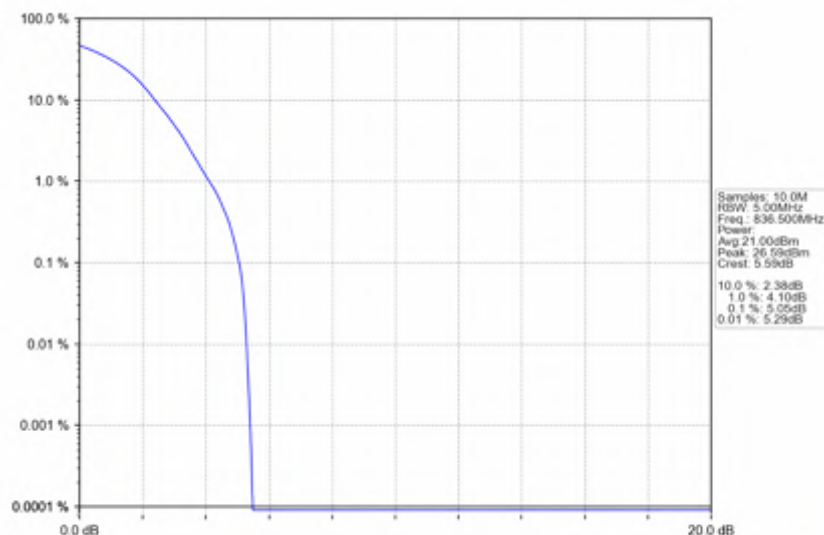
5G NR n5 SCS=30kHz SISO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	829	Outer_Full	5.22	/	/	<=13	Pass
	836.5	Outer_Full	5.05	/	/	<=13	Pass
	844	Outer_Full	5.19	/	/	<=13	Pass
DFT-s-OFDM QPSK	829	Outer_Full	5.18	/	/	<=13	Pass
	836.5	Outer_Full	5.14	/	/	<=13	Pass
	844	Outer_Full	5.18	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	829	Outer_Full	6.27	/	/	<=13	Pass
	836.5	Outer_Full	6.27	/	/	<=13	Pass
	844	Outer_Full	6.29	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	829	Outer_Full	6.68	/	/	<=13	Pass
	836.5	Outer_Full	6.67	/	/	<=13	Pass
	844	Outer_Full	6.52	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	829	Outer_Full	6.78	/	/	<=13	Pass
	836.5	Outer_Full	6.60	/	/	<=13	Pass
	844	Outer_Full	6.93	/	/	<=13	Pass
CP-OFDM QPSK	829	Outer_Full	7.99	/	/	<=13	Pass
	836.5	Outer_Full	7.90	/	/	<=13	Pass
	844	Outer_Full	7.92	/	/	<=13	Pass
CP-OFDM 16 QAM	829	Outer_Full	7.86	/	/	<=13	Pass
	836.5	Outer_Full	8.21	/	/	<=13	Pass
	844	Outer_Full	7.80	/	/	<=13	Pass
CP-OFDM 64 QAM	829	Outer_Full	8.26	/	/	<=13	Pass
	836.5	Outer_Full	8.32	/	/	<=13	Pass
	844	Outer_Full	8.19	/	/	<=13	Pass
CP-OFDM 256 QAM	829	Outer_Full	8.40	/	/	<=13	Pass
	836.5	Outer_Full	8.46	/	/	<=13	Pass
	844	Outer_Full	8.51	/	/	<=13	Pass

2.5.2 Test Graph

n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_829MHz_Outer_Full



n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_836.5MHz_Outer_Full



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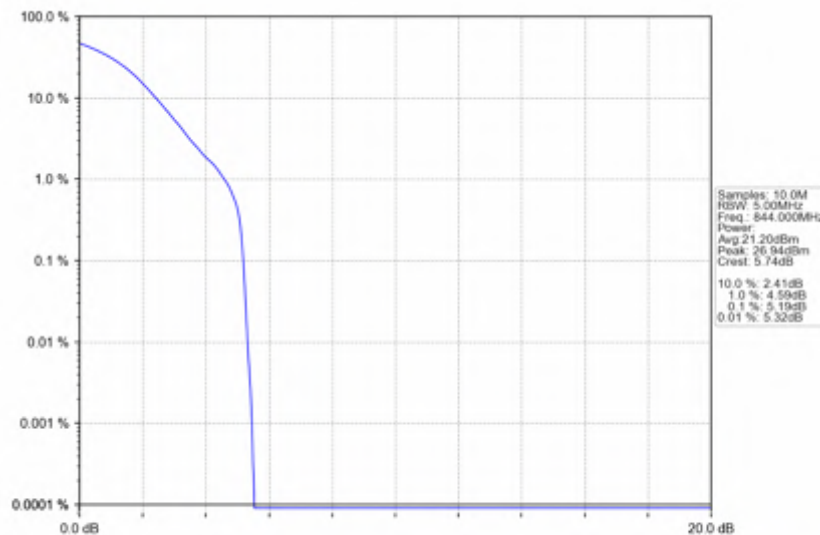
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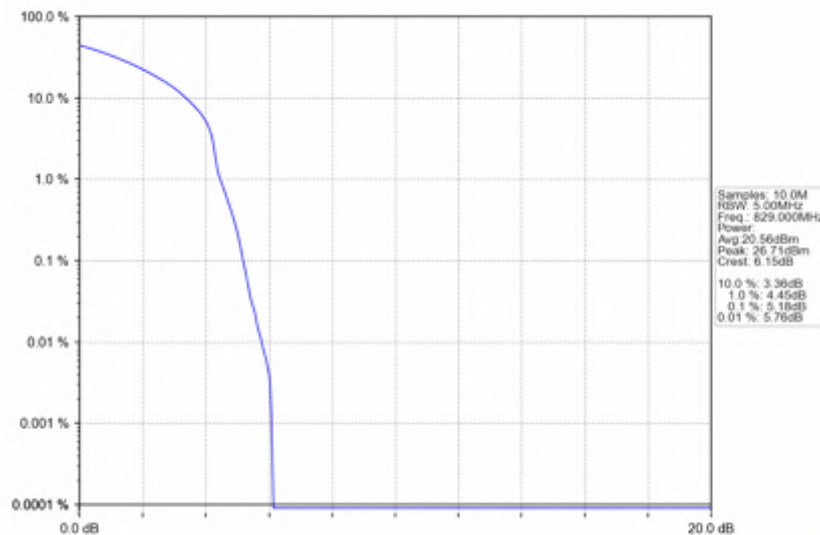
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n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_844MHz_Outer_Full



n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_829MHz_Outer_Full

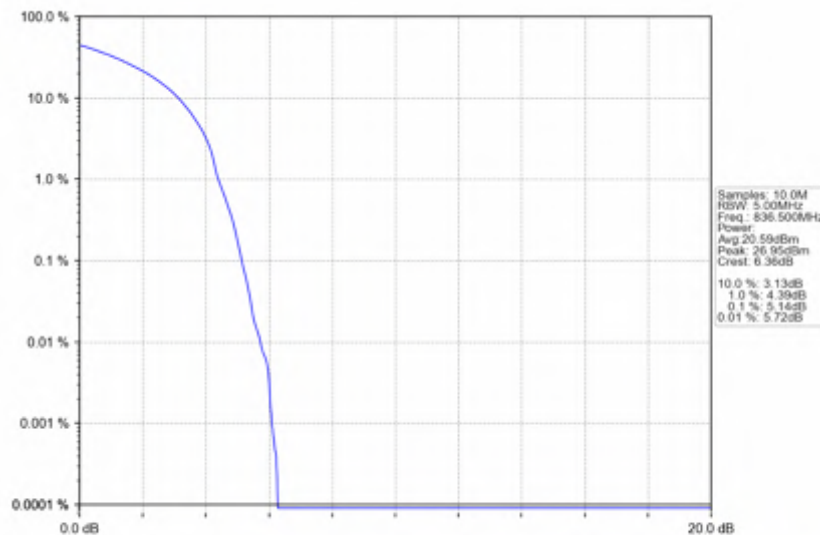


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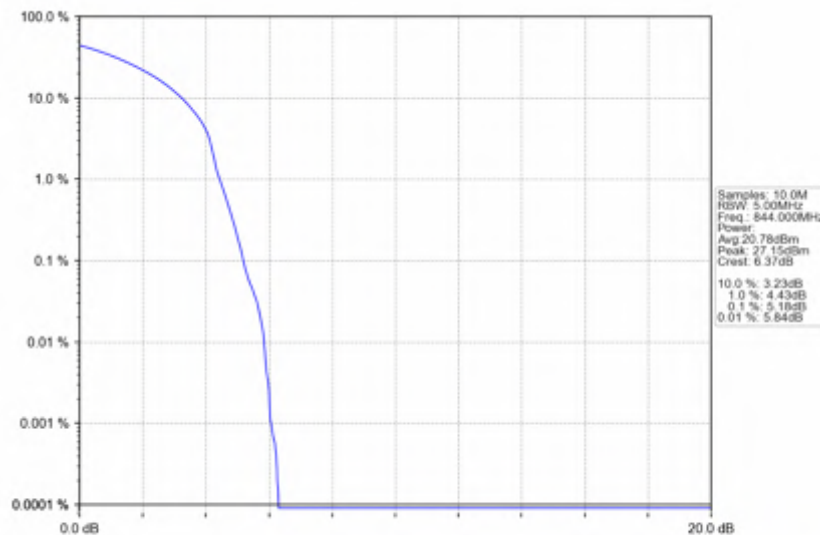
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n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_836.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_844MHz_Outer_Full



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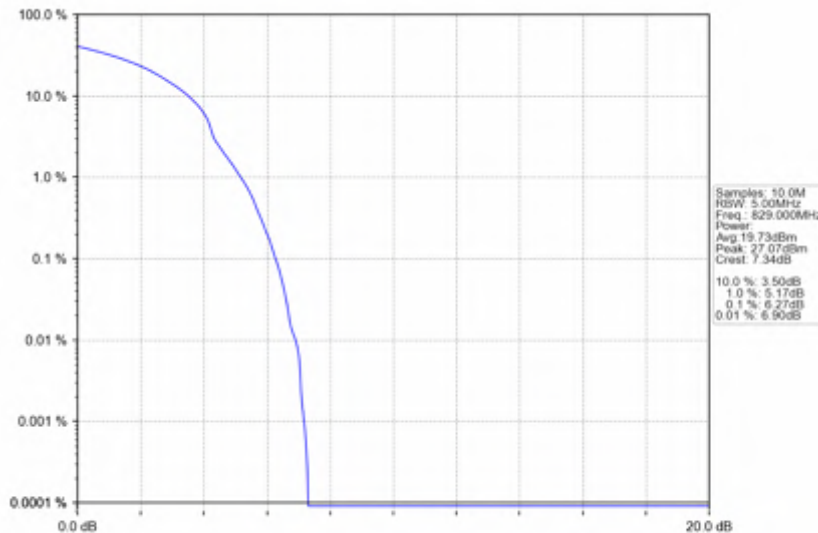
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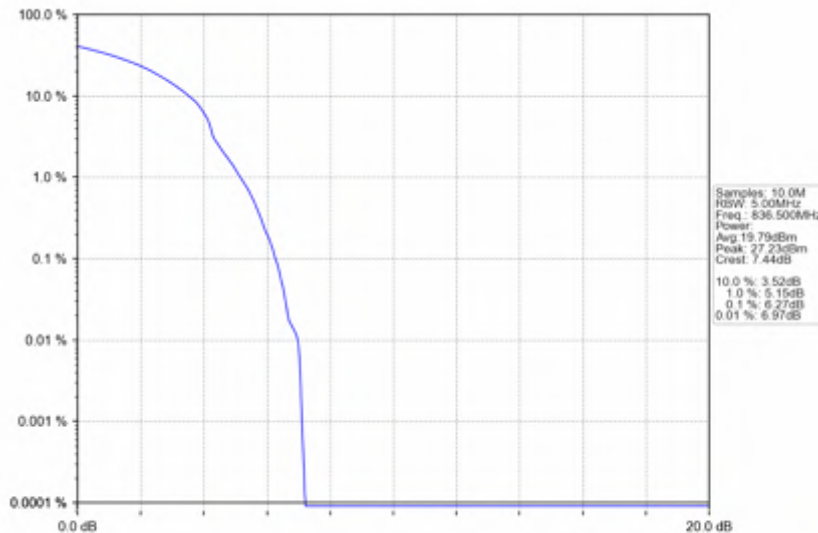
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n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_829MHz_Outer_Full



n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_836.5MHz_Outer_Full

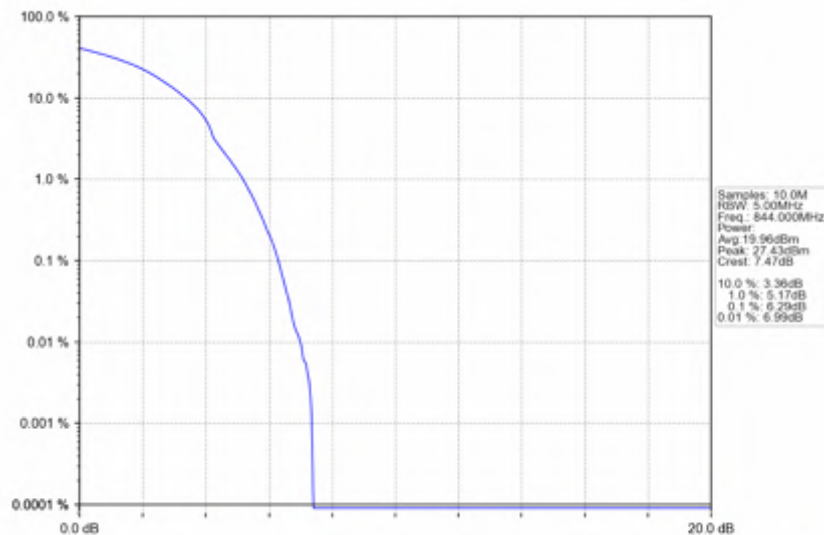


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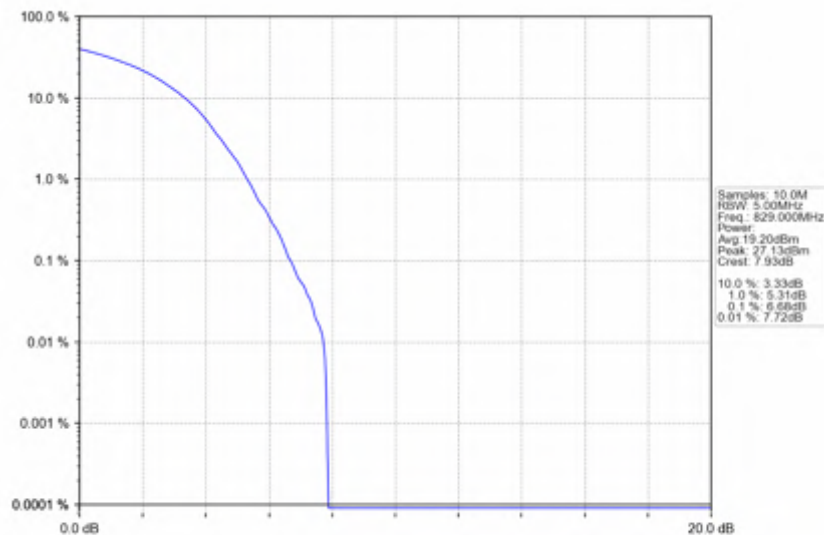
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n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_844MHz_Outer_Full



n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_64_QAM_829MHz_Outer_Full

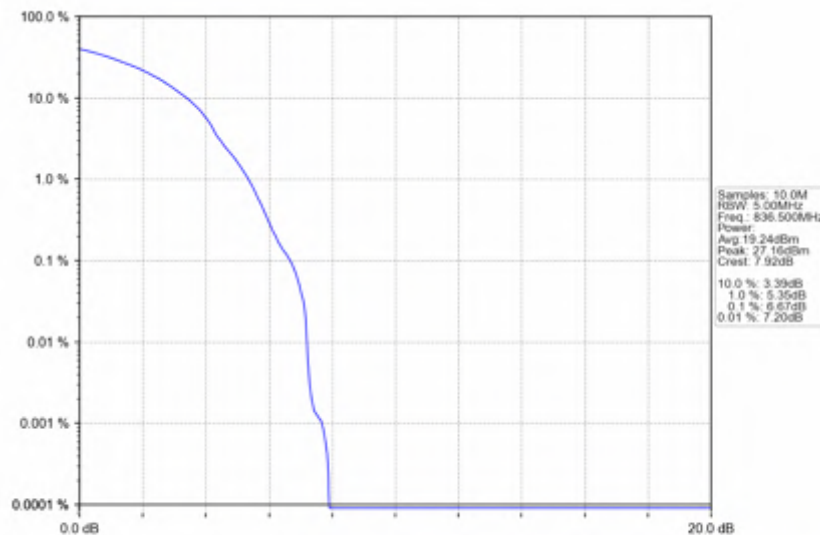


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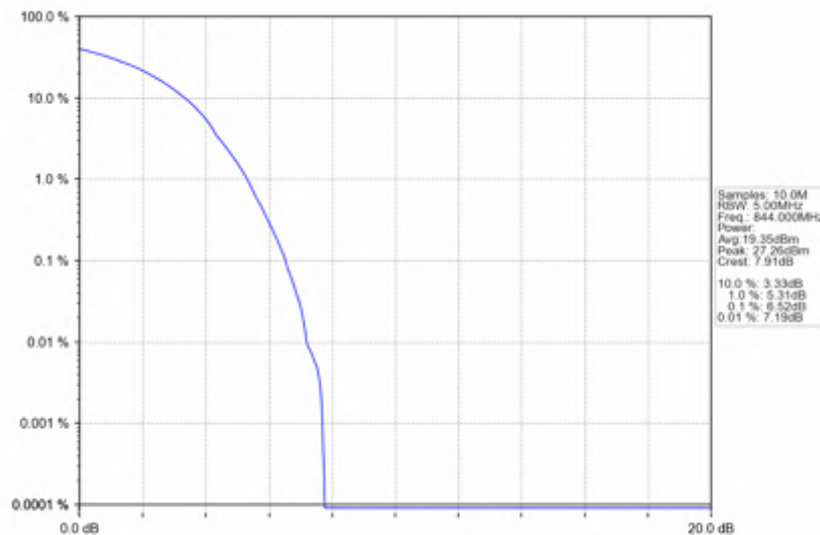
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n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_836.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_844MHz_Outer_Full

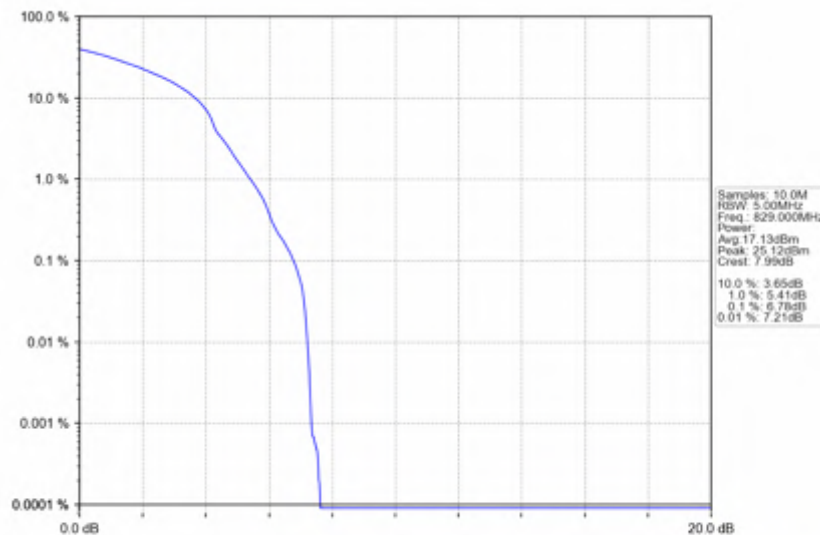


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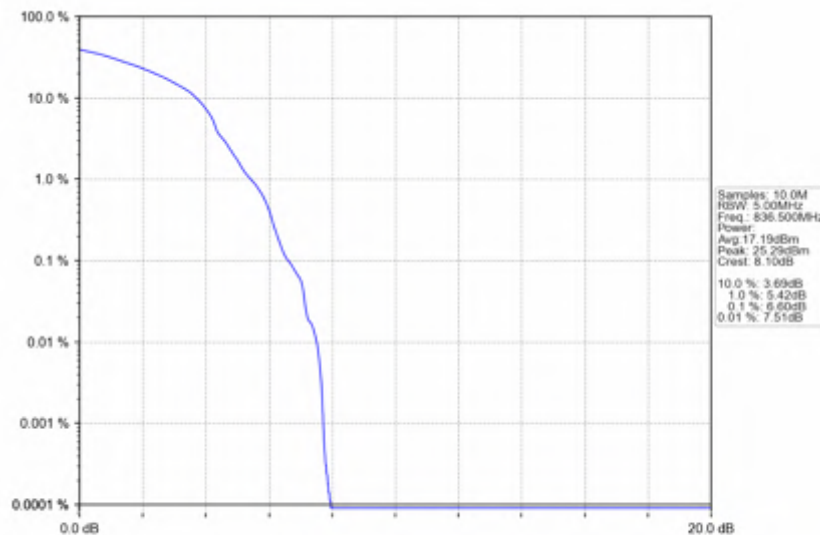
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n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_836.5MHz_Outer_Full



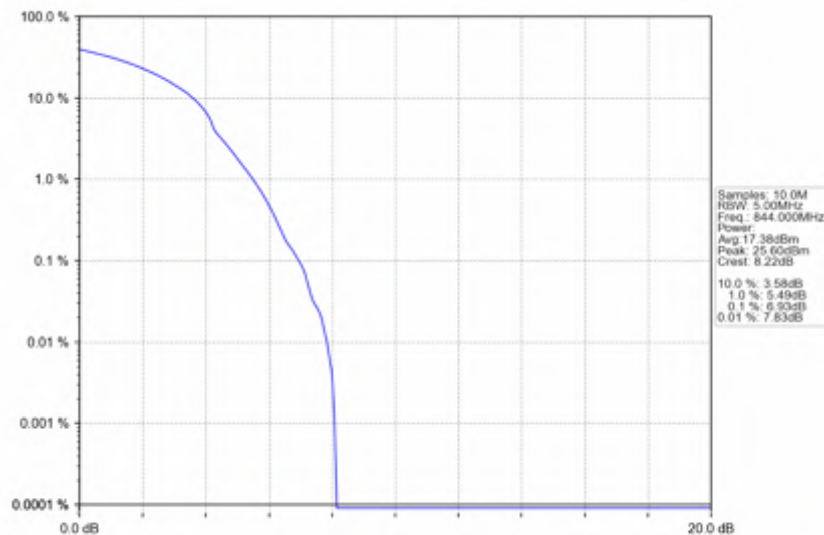
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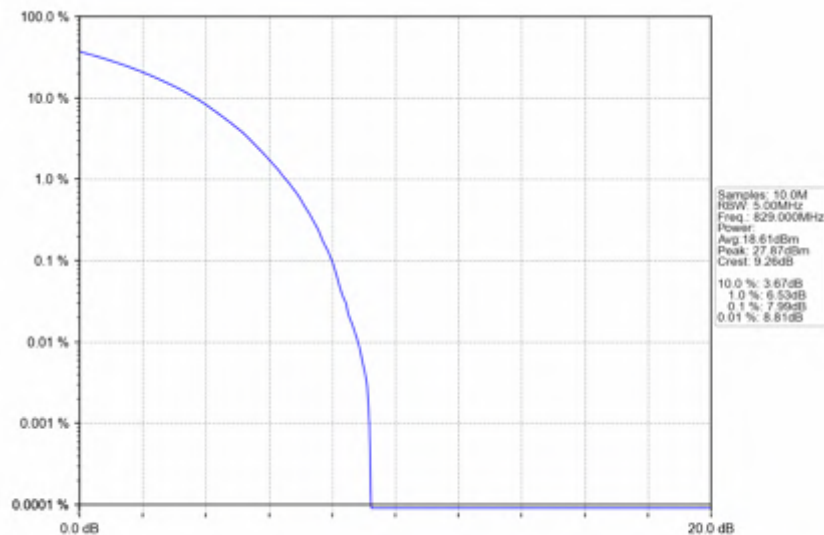
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n5_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_844MHz_Outer_Full



n5_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_829MHz_Outer_Full



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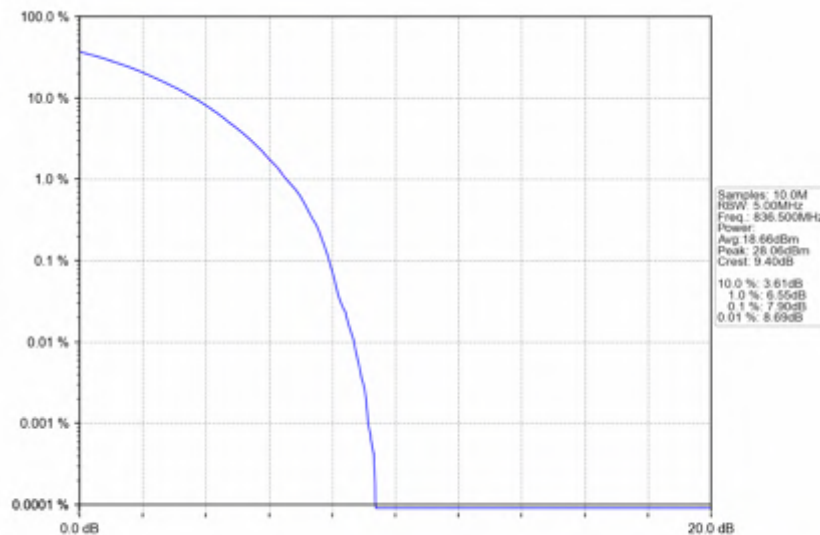
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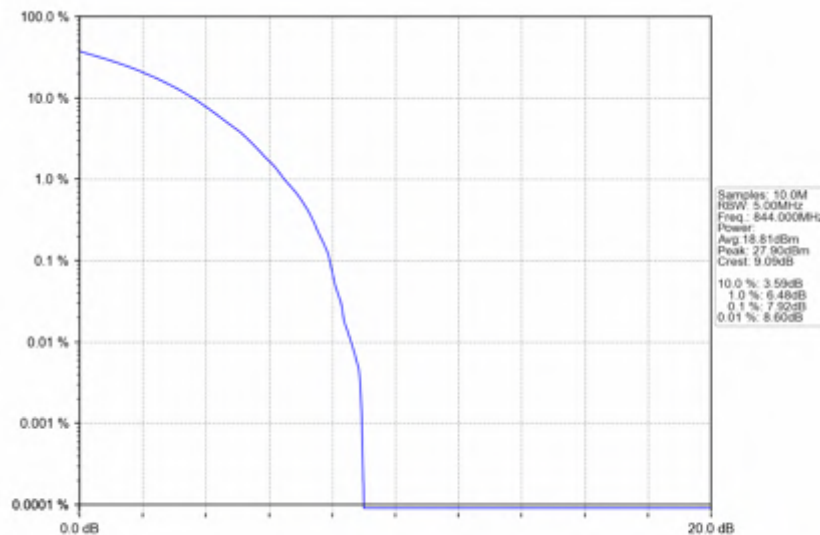
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n5_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_836.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_844MHz_Outer_Full



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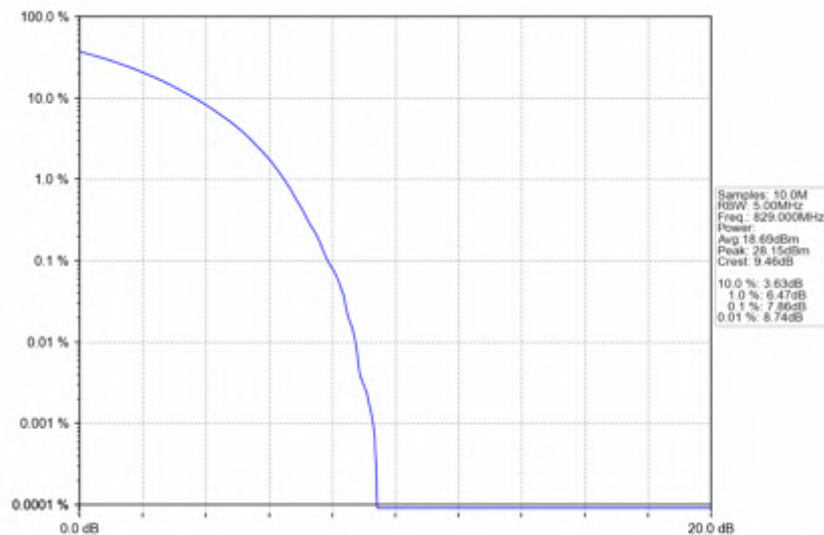
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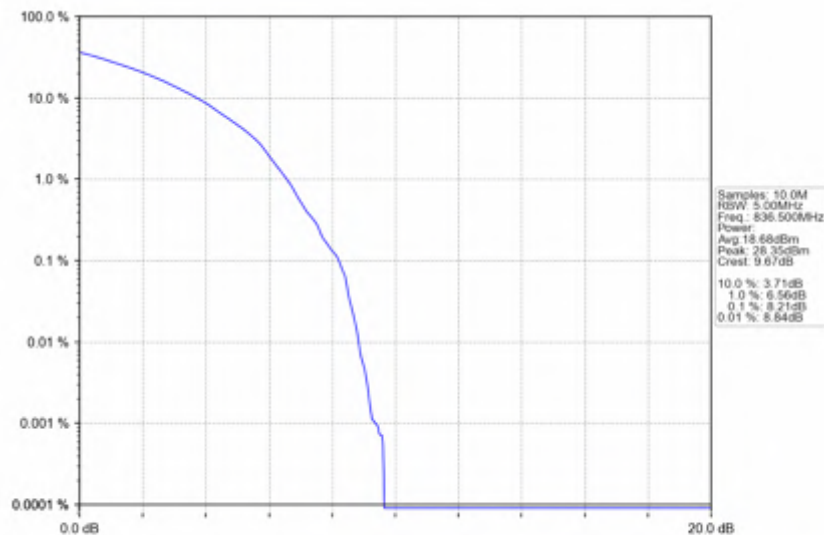
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n5_30kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_836.5MHz_Outer_Full

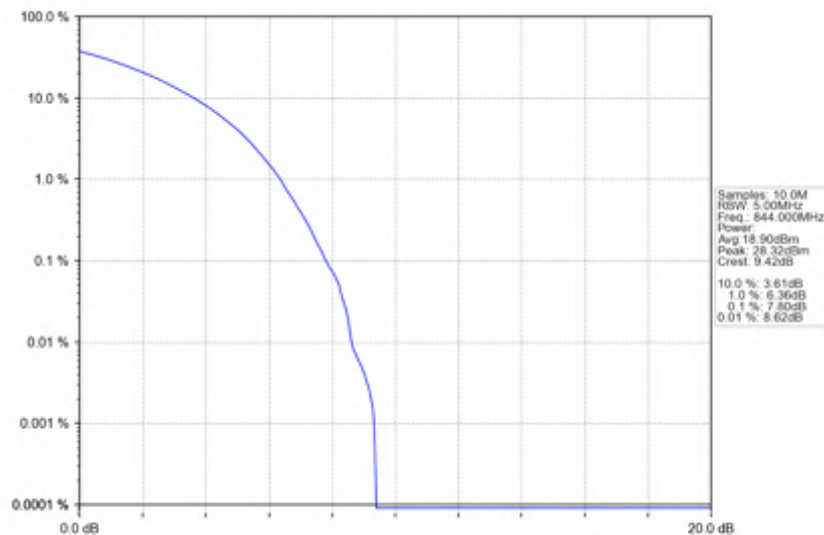


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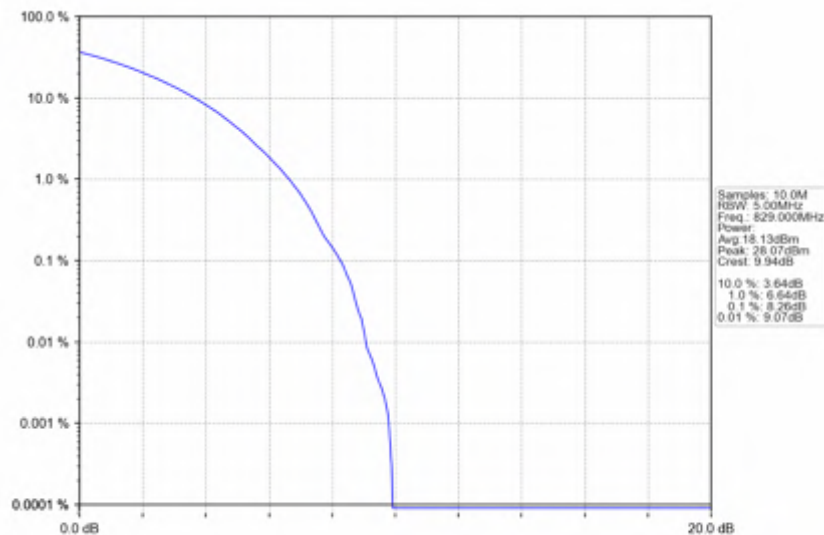
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n5_30kHz_SISO_NTNV_10MHz_CP-OFDM_16 QAM_844MHz_Outer_Full



n5_30kHz_SISO_NTNV_10MHz_CP-OFDM_64 QAM_829MHz_Outer_Full

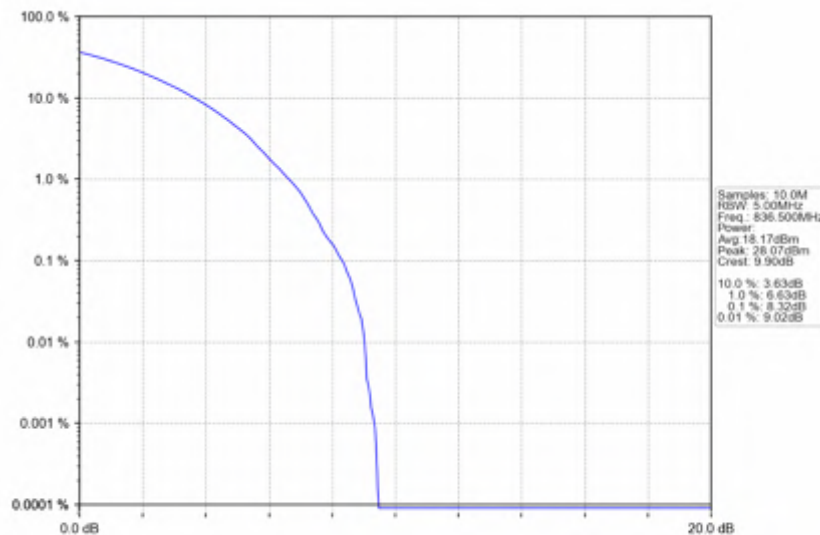


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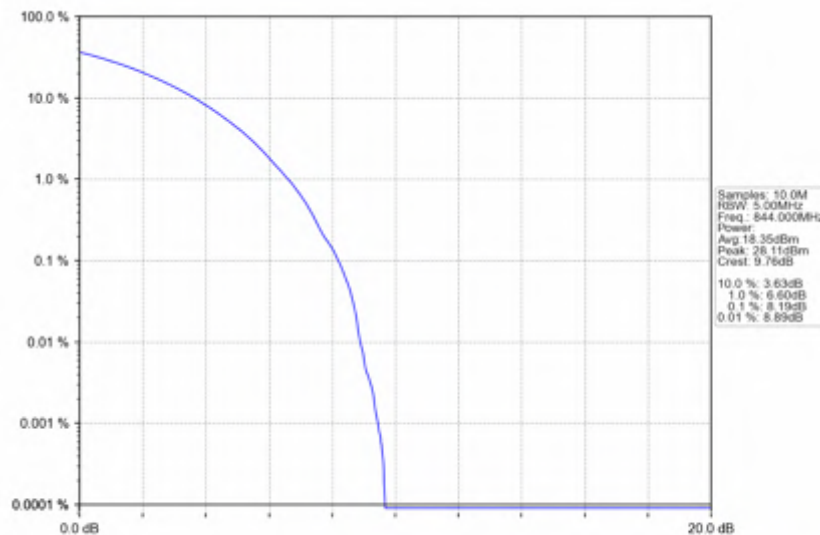
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n5_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_844MHz_Outer_Full

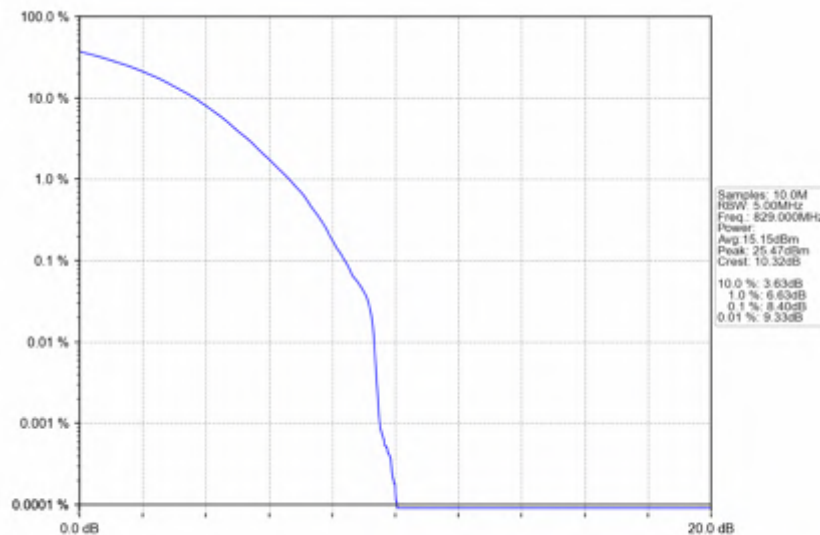


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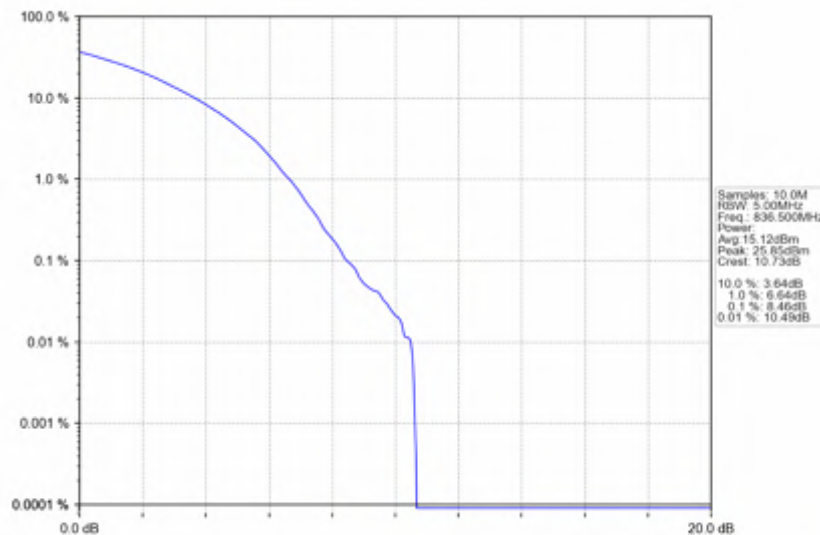
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n5_30kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_829MHz_Outer_Full



n5_30kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_836.5MHz_Outer_Full

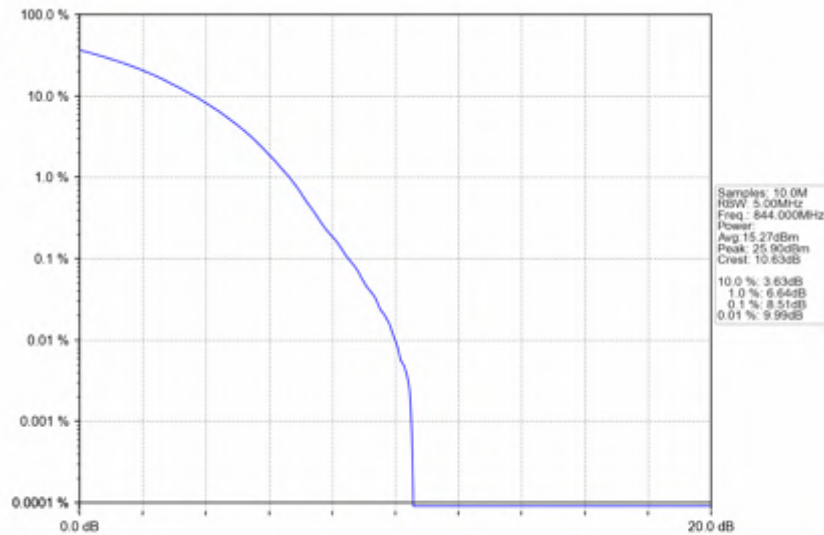


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n5_30kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_844MHz_Outer_Full



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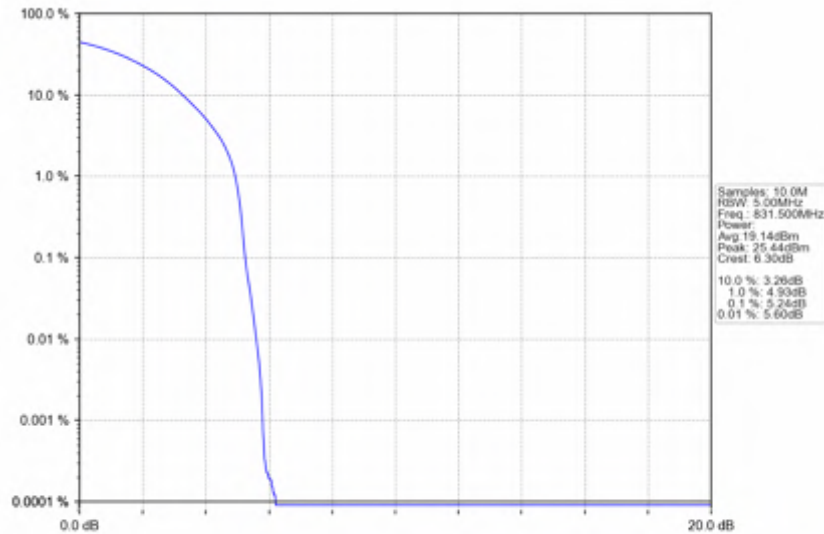
2.6 30k_SISO_15MHz_NTNV

2.6.1 Test Result

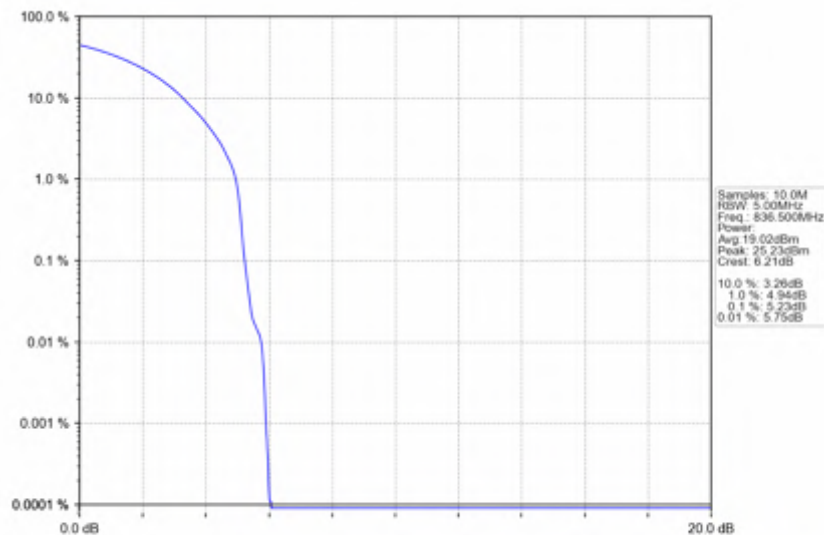
5G NR n5 SCS=30kHz SISO 15MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	831.5	Outer_Full	5.24	/	/	<=13	Pass
	836.5	Outer_Full	5.23	/	/	<=13	Pass
	841.5	Outer_Full	5.26	/	/	<=13	Pass
DFT-s-OFDM QPSK	831.5	Outer_Full	6.38	/	/	<=13	Pass
	836.5	Outer_Full	6.40	/	/	<=13	Pass
	841.5	Outer_Full	6.35	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	831.5	Outer_Full	6.74	/	/	<=13	Pass
	836.5	Outer_Full	6.58	/	/	<=13	Pass
	841.5	Outer_Full	6.86	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	831.5	Outer_Full	7.20	/	/	<=13	Pass
	836.5	Outer_Full	7.14	/	/	<=13	Pass
	841.5	Outer_Full	7.26	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	831.5	Outer_Full	7.31	/	/	<=13	Pass
	836.5	Outer_Full	7.10	/	/	<=13	Pass
	841.5	Outer_Full	7.19	/	/	<=13	Pass
CP-OFDM QPSK	831.5	Outer_Full	8.02	/	/	<=13	Pass
	836.5	Outer_Full	7.99	/	/	<=13	Pass
	841.5	Outer_Full	8.32	/	/	<=13	Pass
CP-OFDM 16 QAM	831.5	Outer_Full	8.43	/	/	<=13	Pass
	836.5	Outer_Full	8.30	/	/	<=13	Pass
	841.5	Outer_Full	8.25	/	/	<=13	Pass
CP-OFDM 64 QAM	831.5	Outer_Full	8.34	/	/	<=13	Pass
	836.5	Outer_Full	8.14	/	/	<=13	Pass
	841.5	Outer_Full	8.31	/	/	<=13	Pass
CP-OFDM 256 QAM	831.5	Outer_Full	8.62	/	/	<=13	Pass
	836.5	Outer_Full	8.80	/	/	<=13	Pass
	841.5	Outer_Full	8.32	/	/	<=13	Pass

2.6.2 Test Graph

n5_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_PI/2_BPSK_831.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_PI/2_BPSK_836.5MHz_Outer_Full

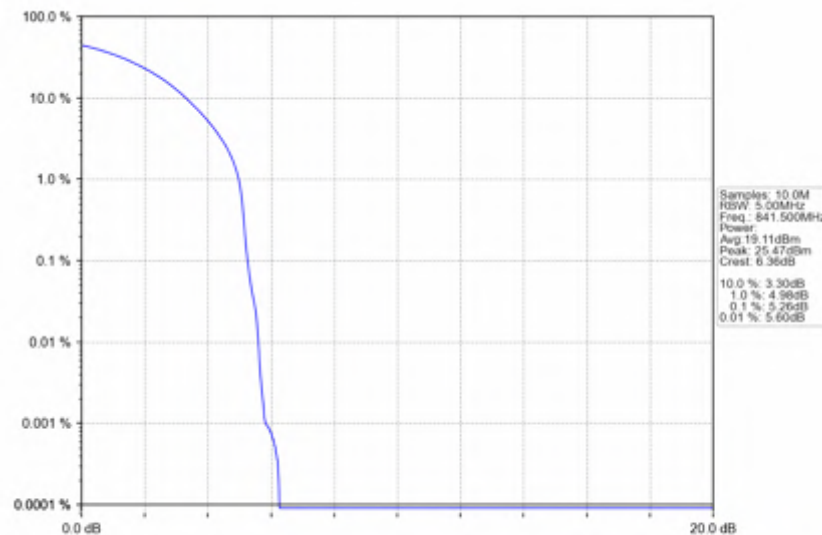


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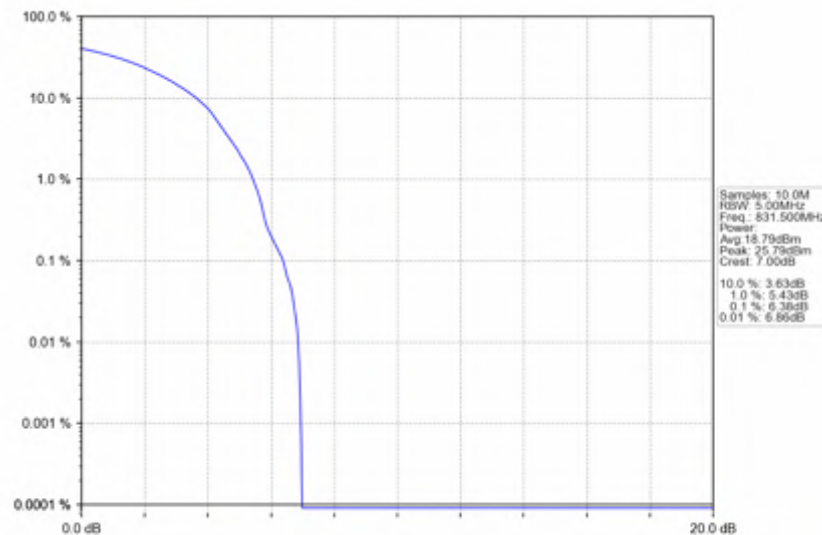
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n5_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_841.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_831.5MHz_Outer_Full

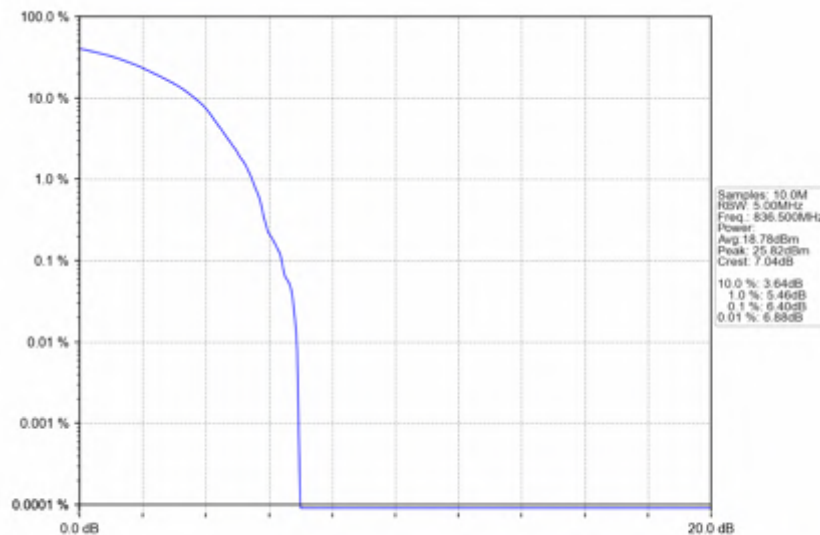


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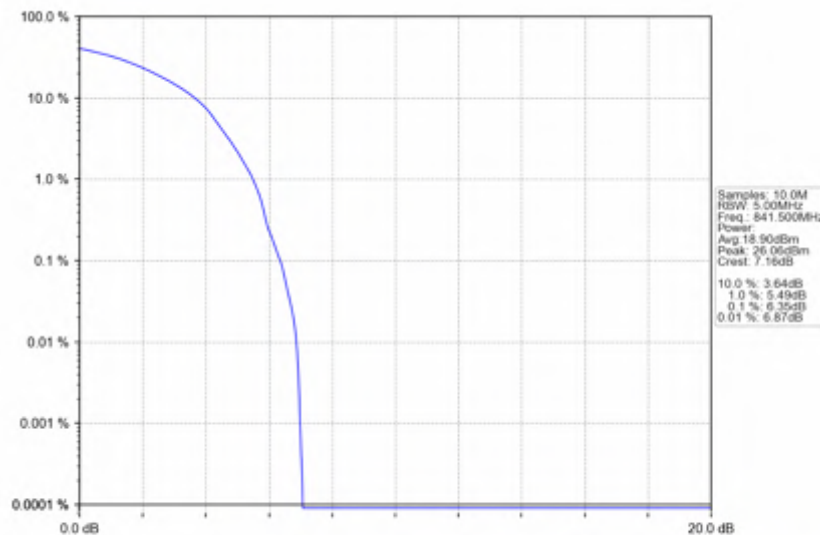
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n5_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_836.5MHz_Outer_Full



n5_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_841.5MHz_Outer_Full



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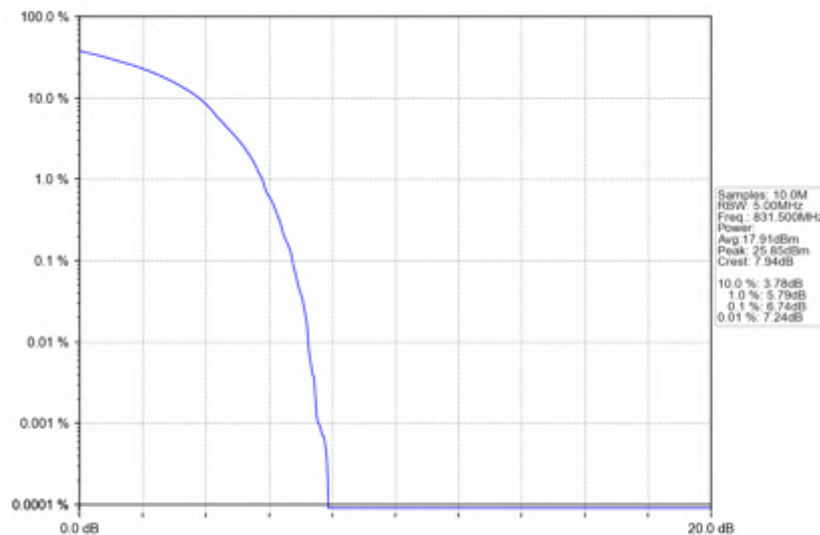
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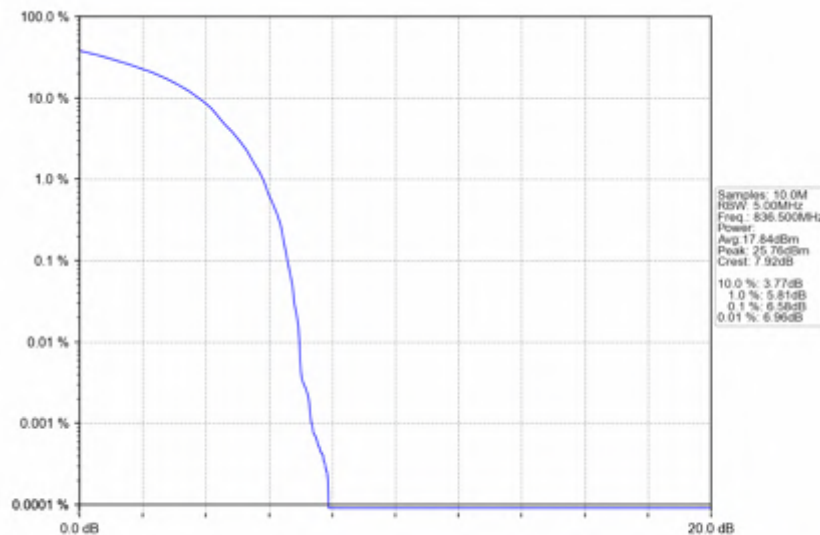
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n5_30kHz_SISO_NTV_15MHz_DFT-s-OFDM_16_QAM_836.5MHz_Outer_Full



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