

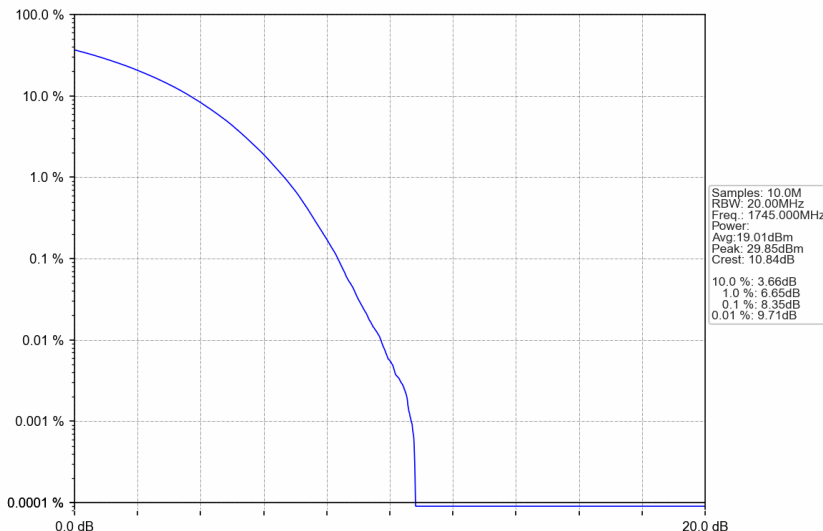


Report No.: SEWM2311000456RG02

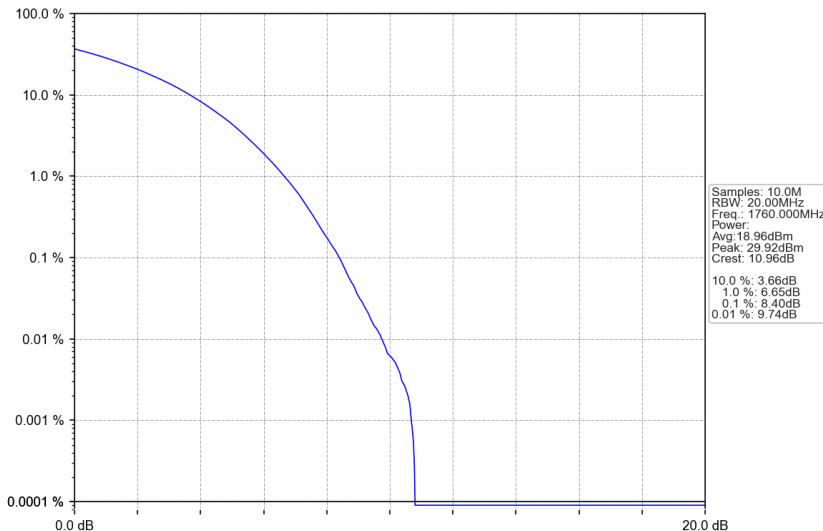
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n66_15kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_1745MHz_Outer_Full



n66_15kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_1760MHz_Outer_Full



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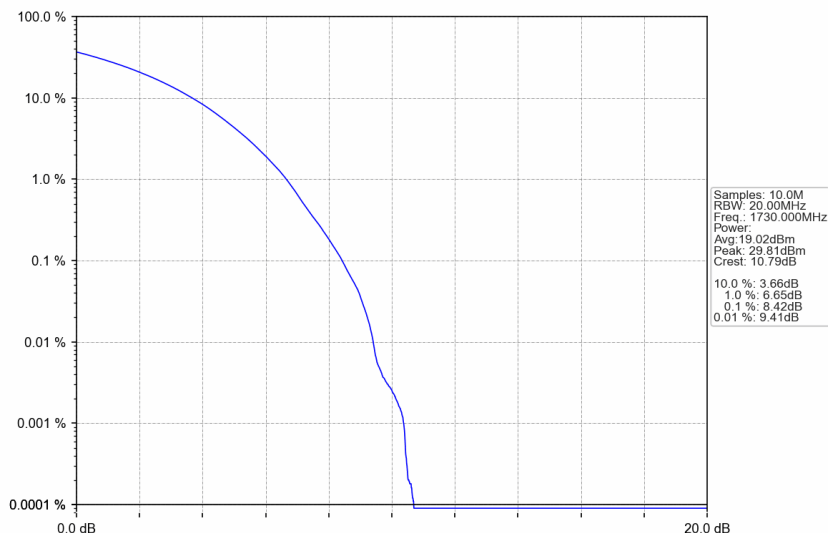


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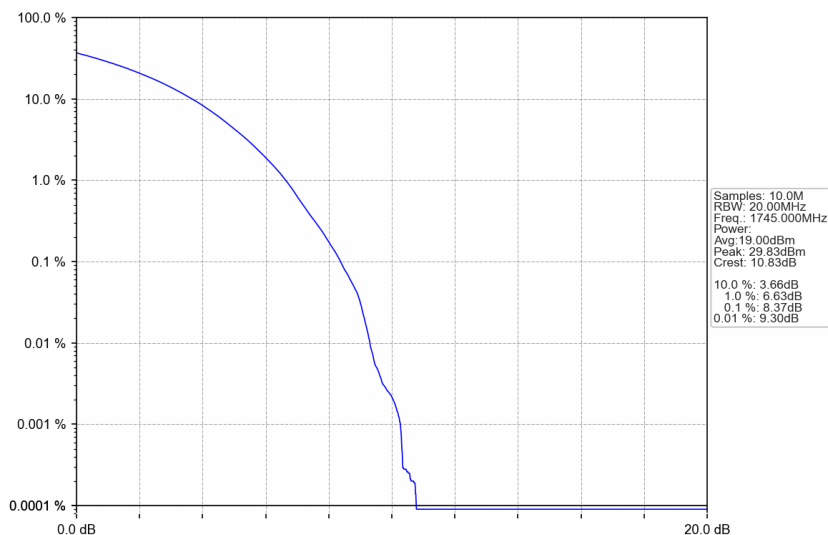
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n66_15kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_1730MHz_Outer_Full



n66_15kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_1745MHz_Outer_Full



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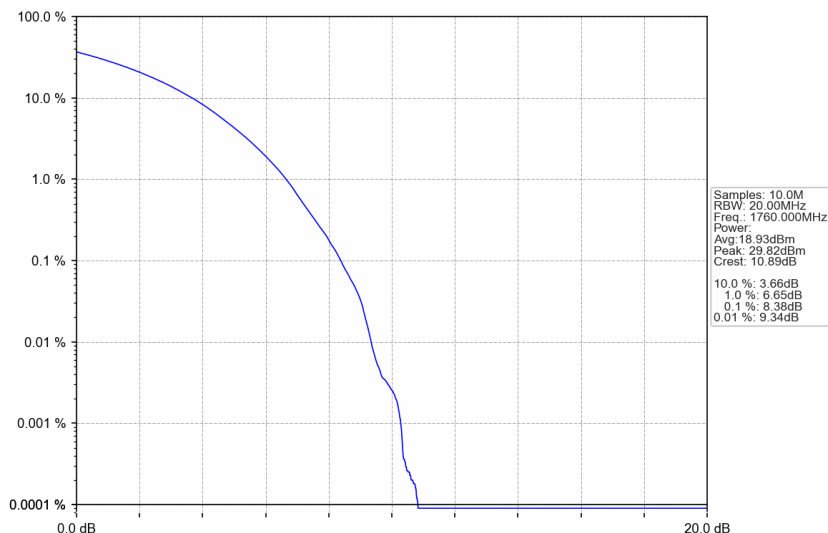
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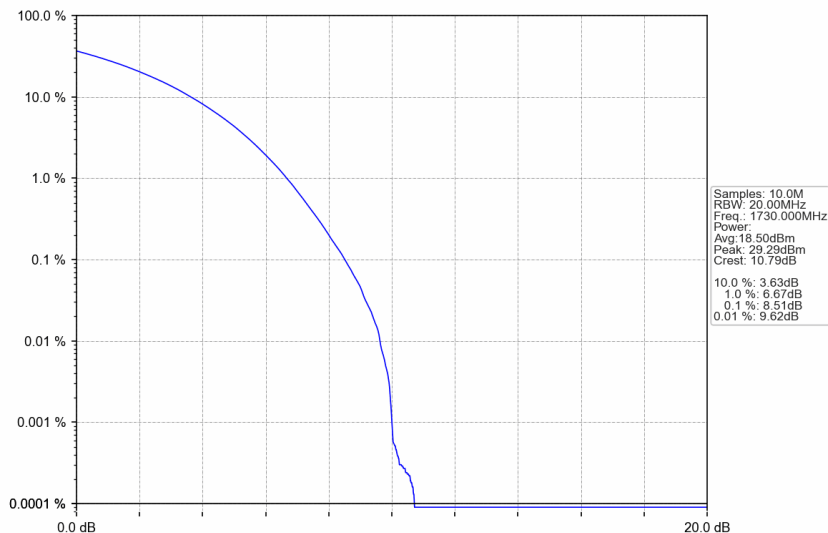
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n66_15kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_1760MHz_Outer_Full



n66_15kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_1730MHz_Outer_Full



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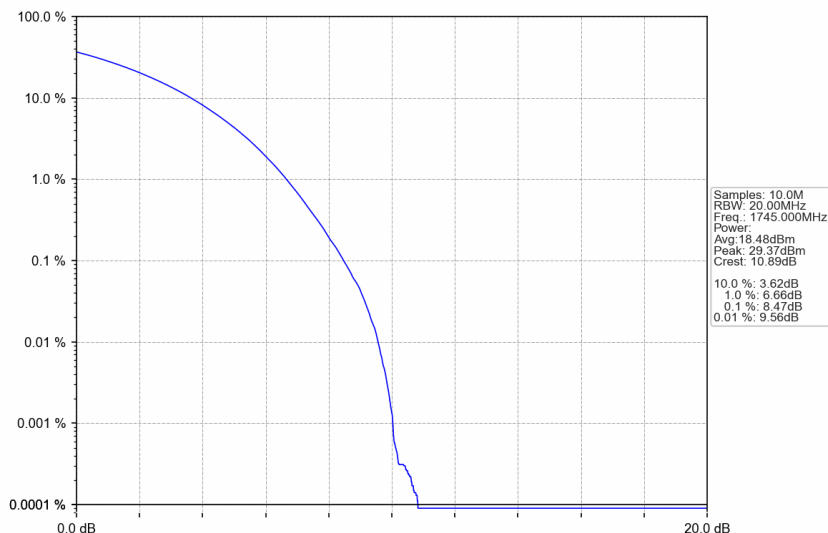


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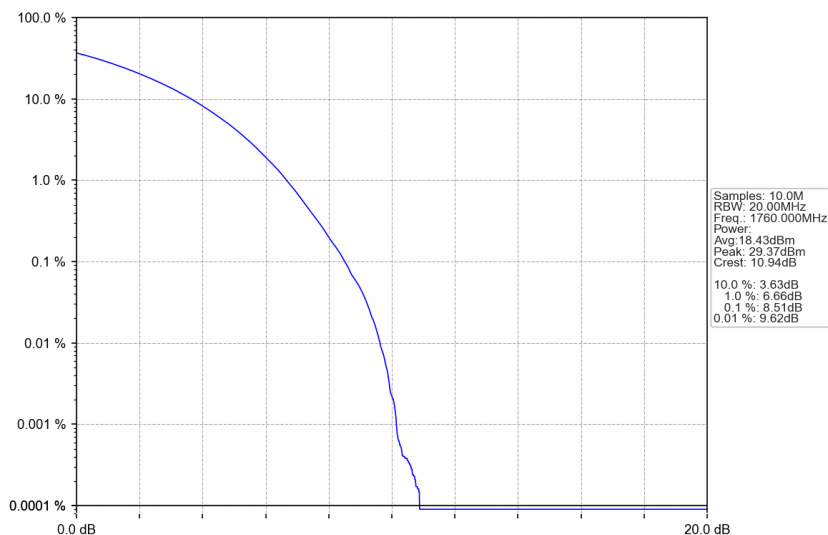
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n66_15kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_1745MHz_Outer_Full



n66_15kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_1760MHz_Outer_Full



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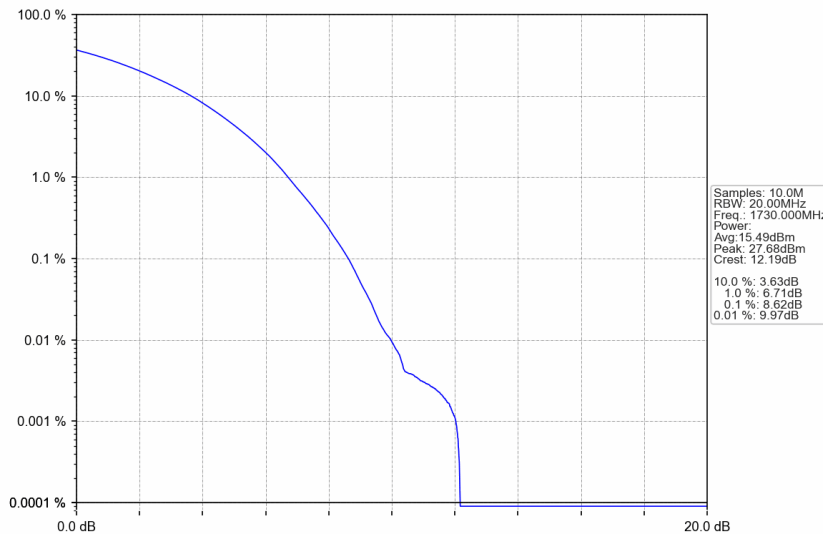


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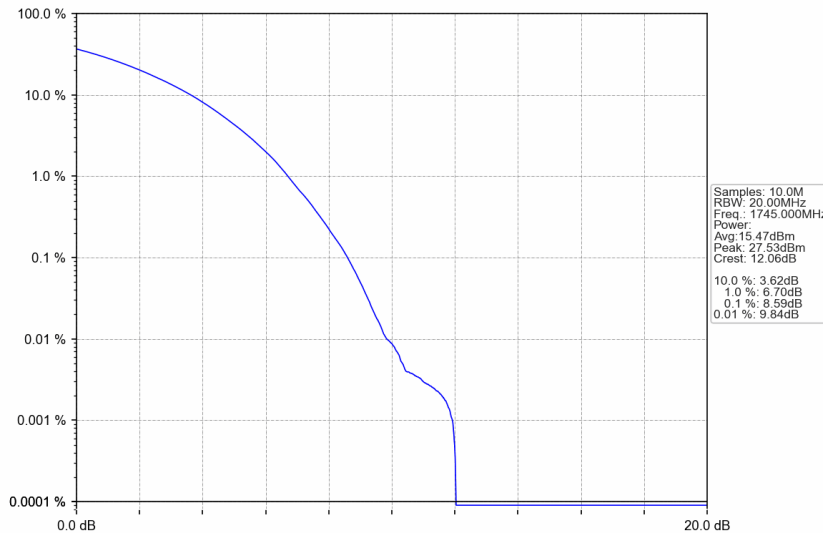
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n66_15kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_1730MHz_Outer_Full



n66_15kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_1745MHz_Outer_Full



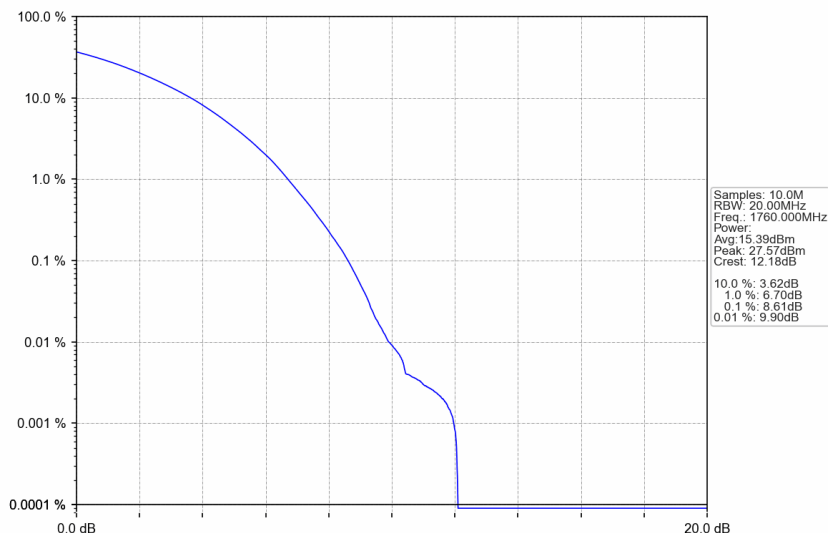
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5.9 30k_SISO_10MHz_NTNV

5.9.1 Test Result

5G NR n66 SCS=30kHz SISO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	1715	Outer_Full	4.46	/	/	<=13	Pass
	1745	Outer_Full	4.39	/	/	<=13	Pass
	1775	Outer_Full	4.50	/	/	<=13	Pass
DFT-s-OFDM QPSK	1715	Outer_Full	5.59	/	/	<=13	Pass
	1745	Outer_Full	5.51	/	/	<=13	Pass
	1775	Outer_Full	5.62	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1715	Outer_Full	6.49	/	/	<=13	Pass
	1745	Outer_Full	6.42	/	/	<=13	Pass
	1775	Outer_Full	6.49	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1715	Outer_Full	6.64	/	/	<=13	Pass
	1745	Outer_Full	6.56	/	/	<=13	Pass
	1775	Outer_Full	6.66	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1715	Outer_Full	7.05	/	/	<=13	Pass
	1745	Outer_Full	6.99	/	/	<=13	Pass
	1775	Outer_Full	7.09	/	/	<=13	Pass
CP-OFDM QPSK	1715	Outer_Full	8.21	/	/	<=13	Pass
	1745	Outer_Full	8.11	/	/	<=13	Pass
	1775	Outer_Full	8.28	/	/	<=13	Pass
CP-OFDM 16 QAM	1715	Outer_Full	8.08	/	/	<=13	Pass
	1745	Outer_Full	7.97	/	/	<=13	Pass
	1775	Outer_Full	8.09	/	/	<=13	Pass
CP-OFDM 64 QAM	1715	Outer_Full	8.18	/	/	<=13	Pass
	1745	Outer_Full	8.08	/	/	<=13	Pass
	1775	Outer_Full	8.22	/	/	<=13	Pass
CP-OFDM 256 QAM	1715	Outer_Full	8.63	/	/	<=13	Pass
	1745	Outer_Full	8.55	/	/	<=13	Pass
	1775	Outer_Full	8.60	/	/	<=13	Pass

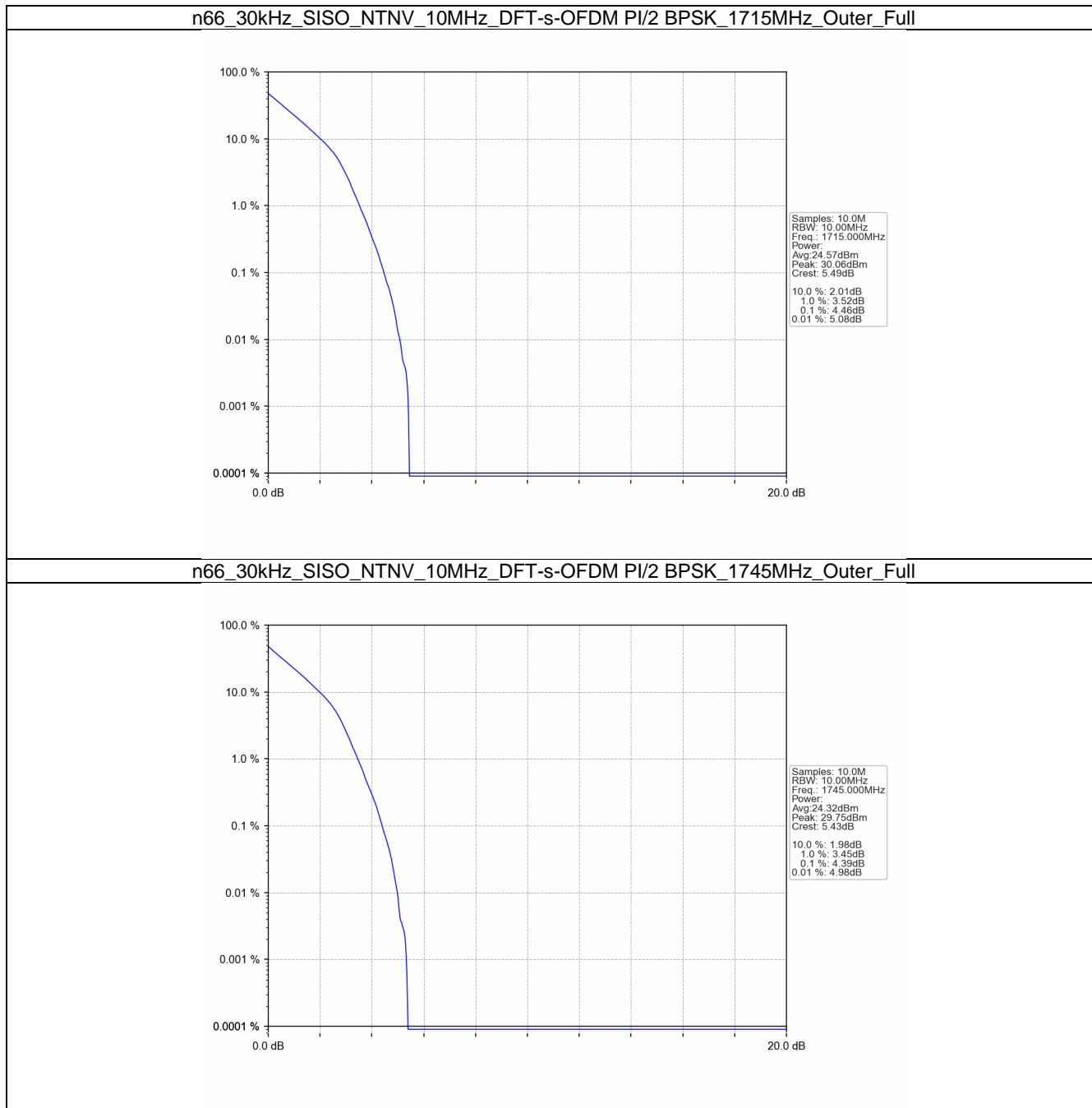


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5.9.2 Test Graph



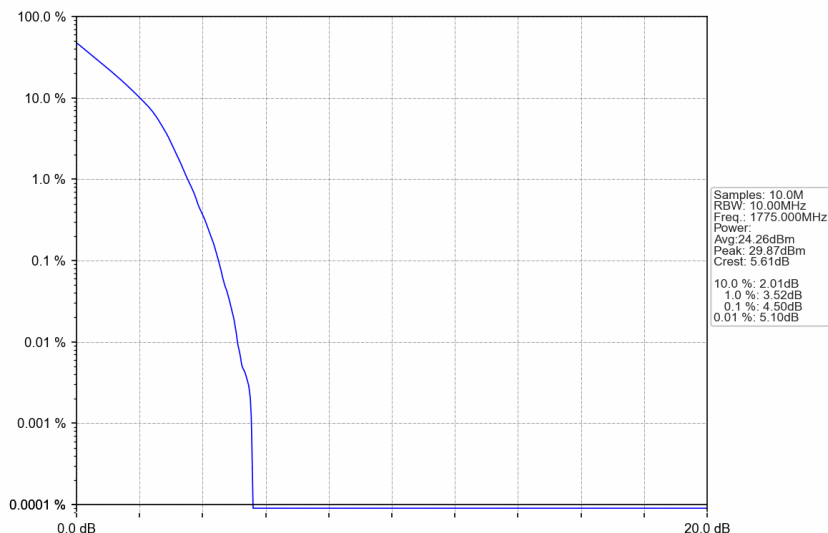
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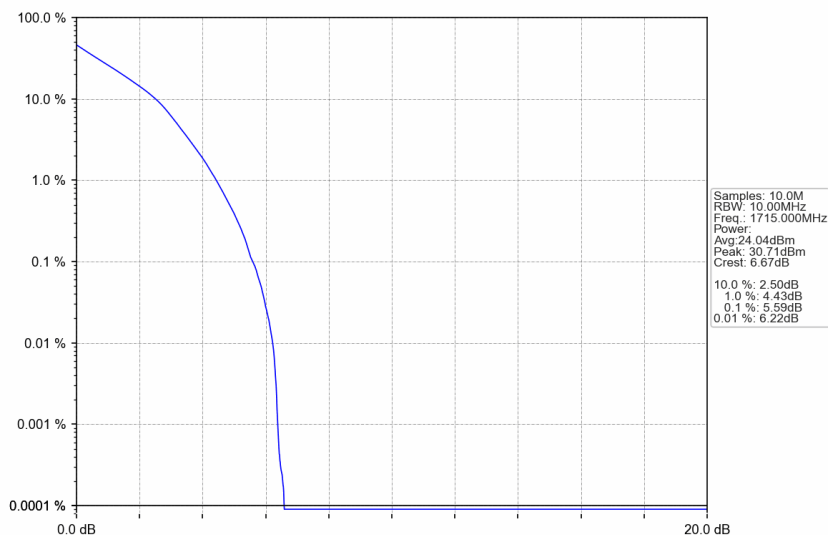
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n66_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_1775MHz_Outer_Full



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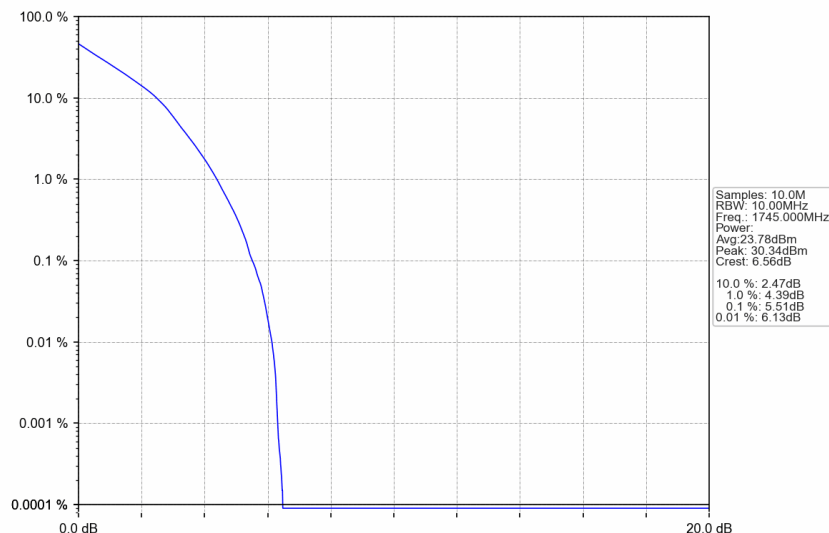


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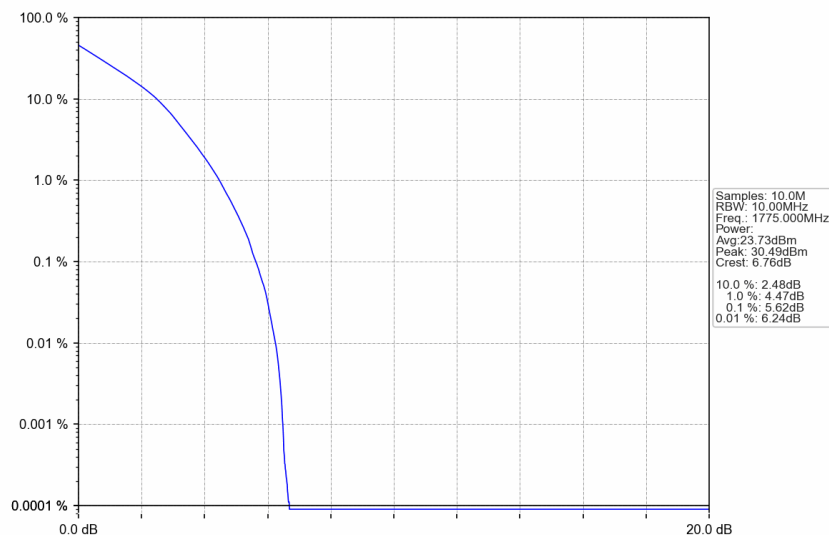
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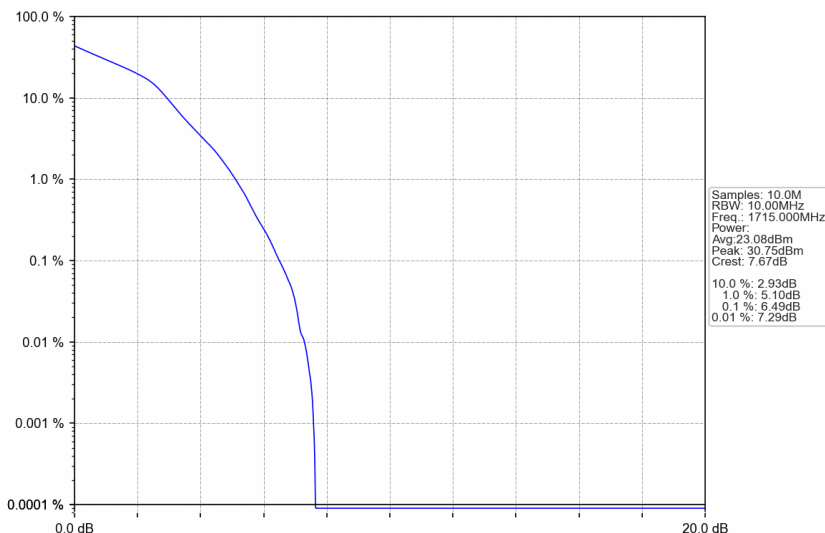


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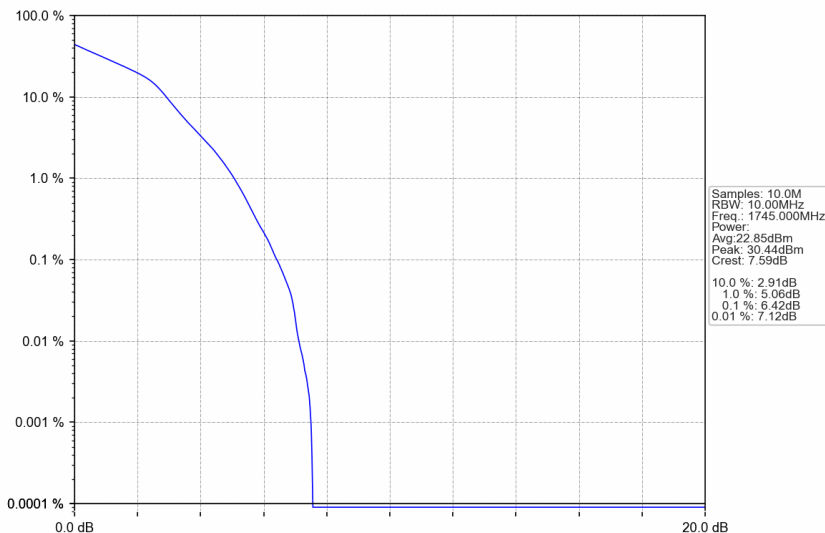
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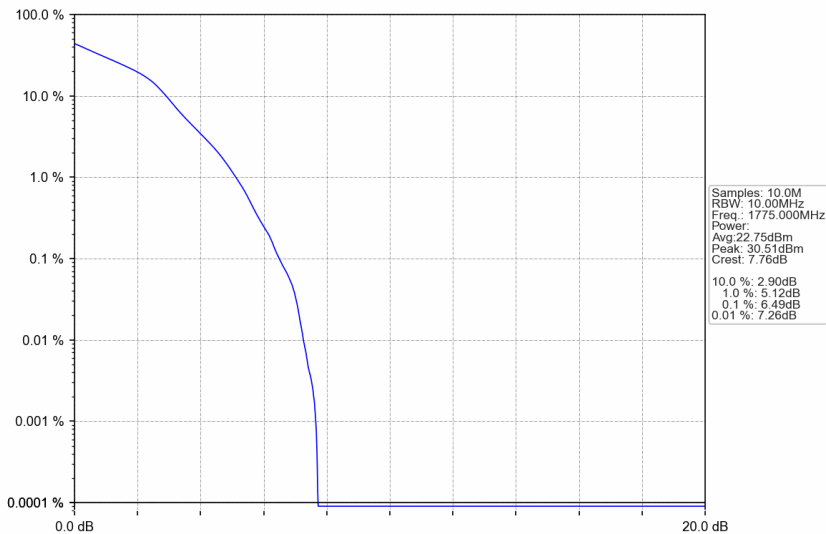


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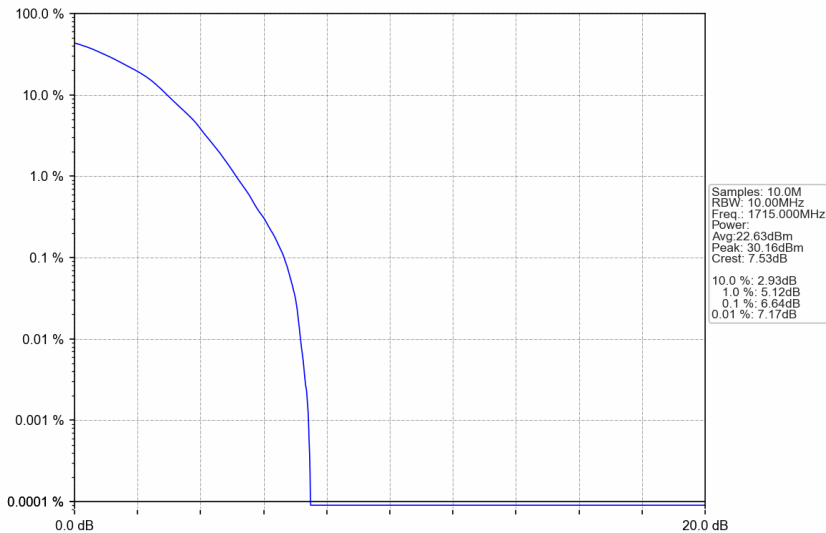
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n66_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_1775MHz_Outer_Full



n66_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_1715MHz_Outer_Full

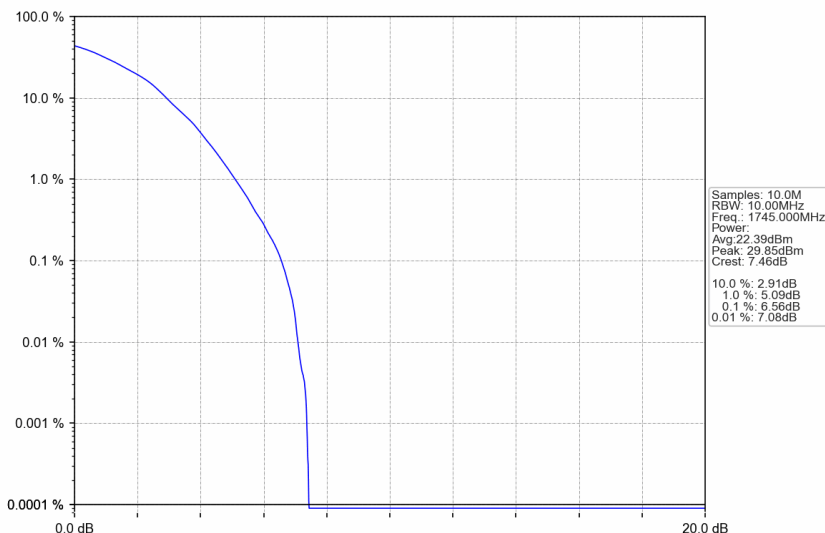


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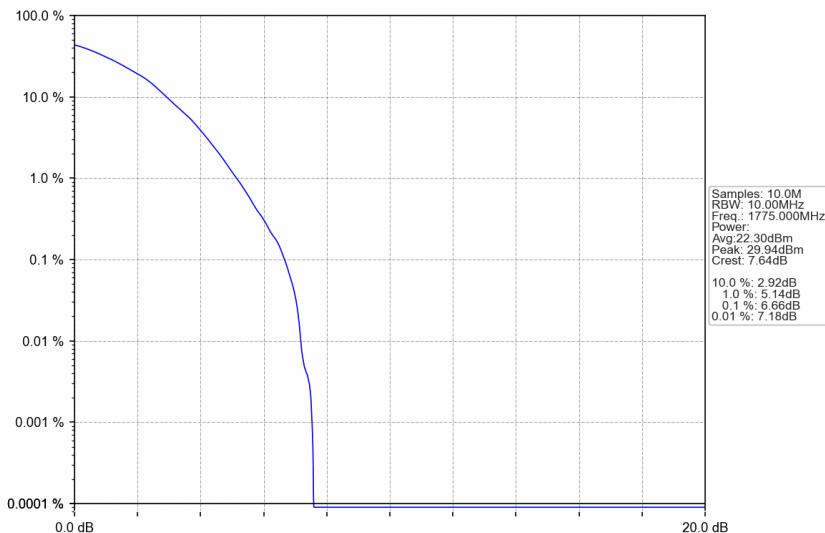
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n66_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_1745MHz_Outer_Full



n66_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_1775MHz_Outer_Full



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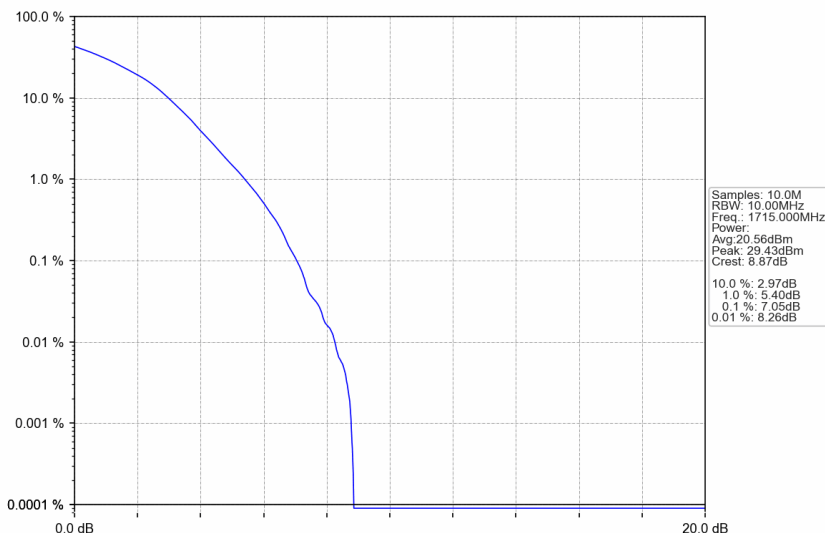
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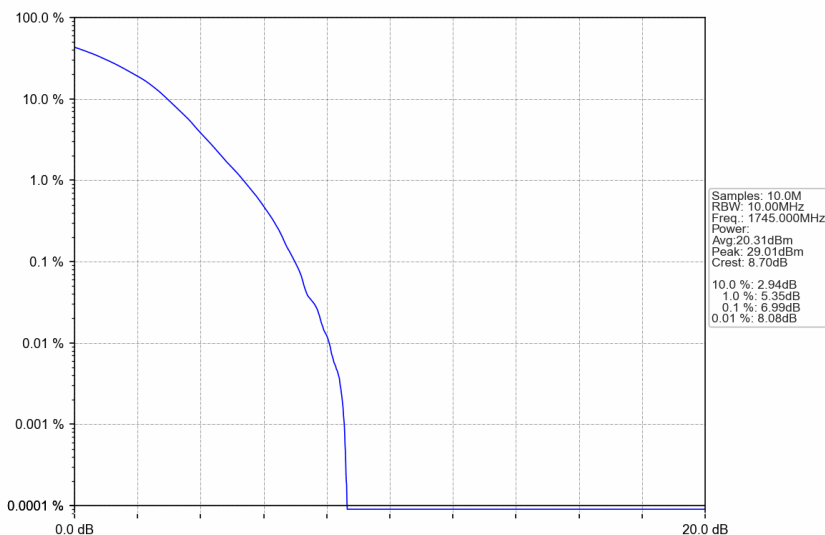
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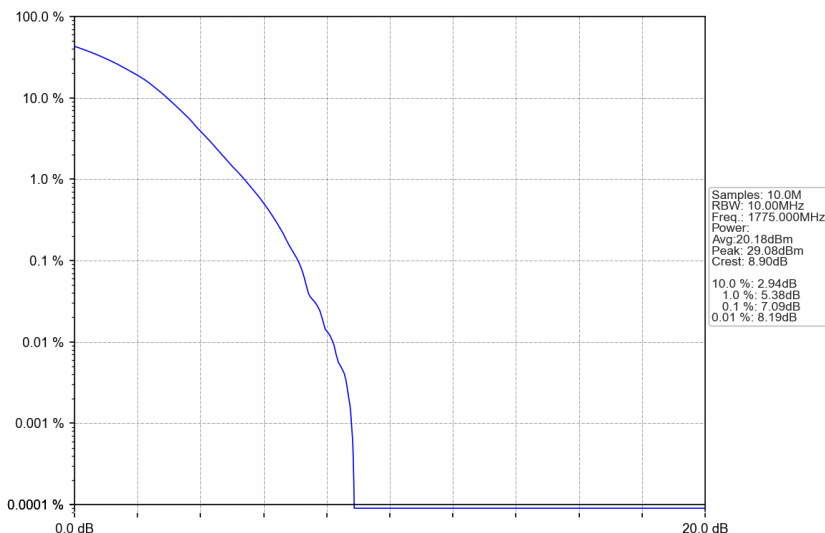


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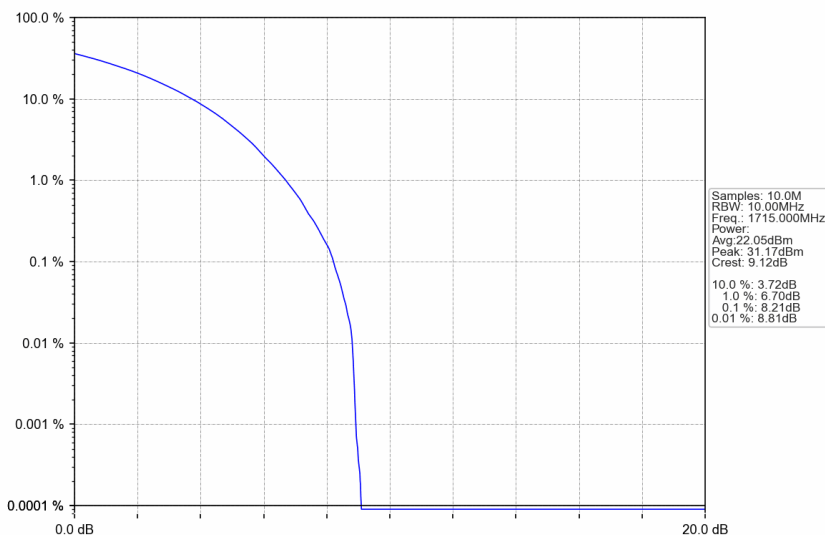
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n66_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1715MHz_Outer_Full



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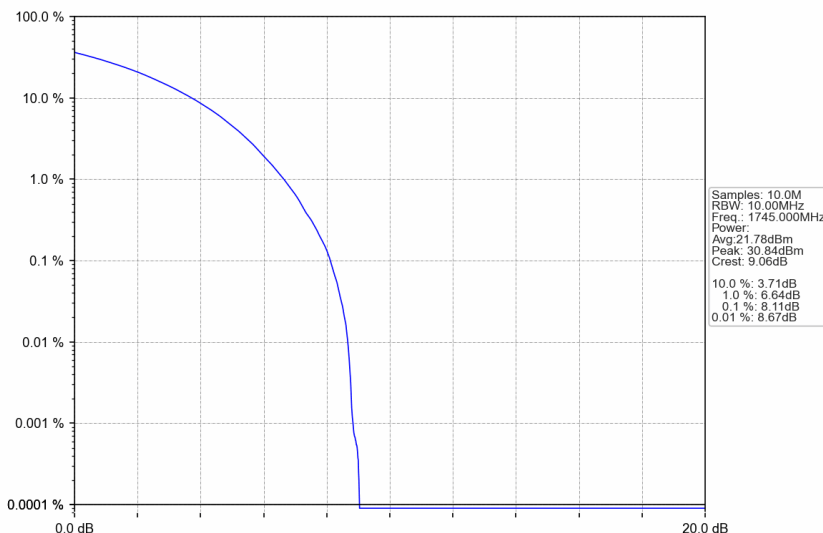


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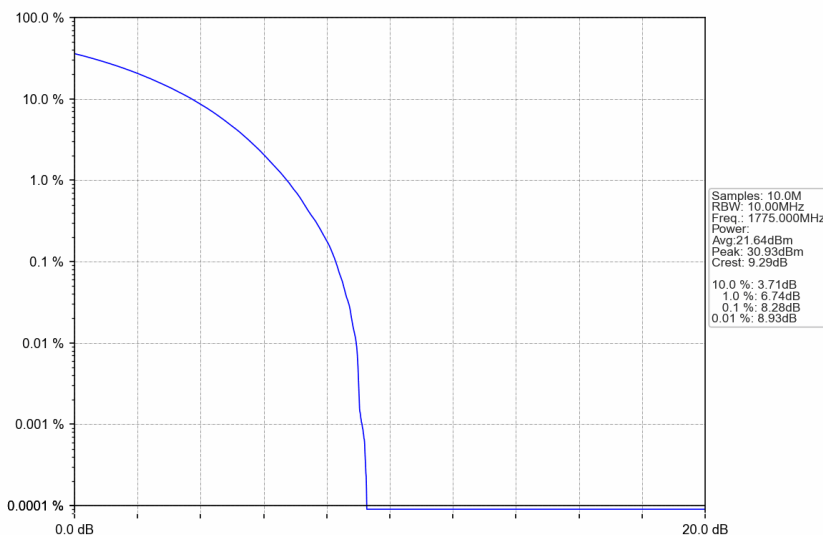
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n66_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1745MHz_Outer_Full



n66_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1775MHz_Outer_Full



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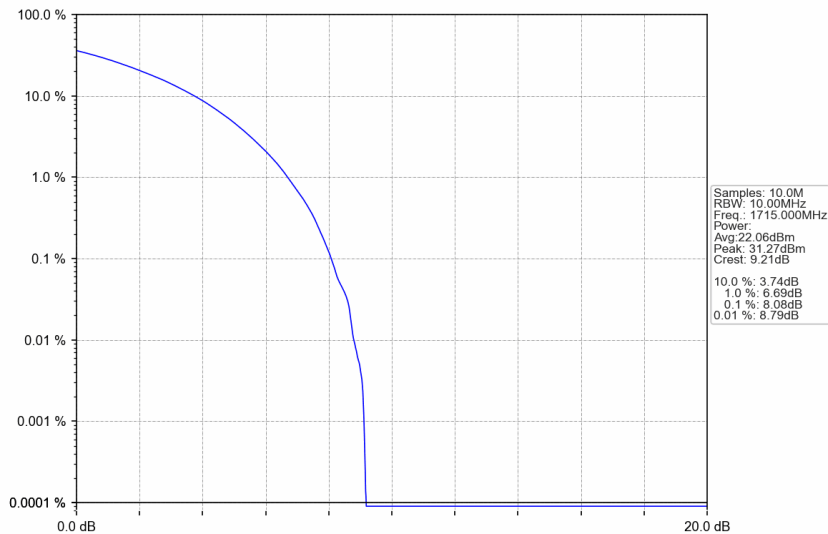


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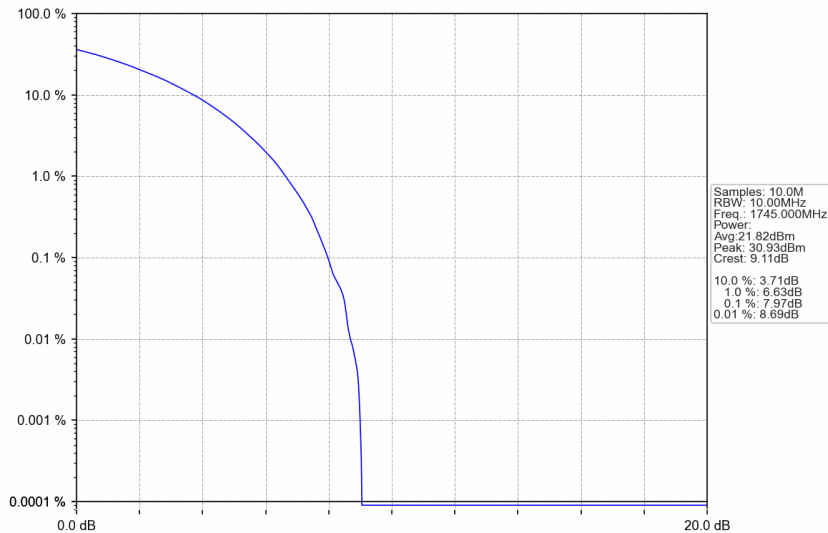
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n66_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_1715MHz_Outer_Full



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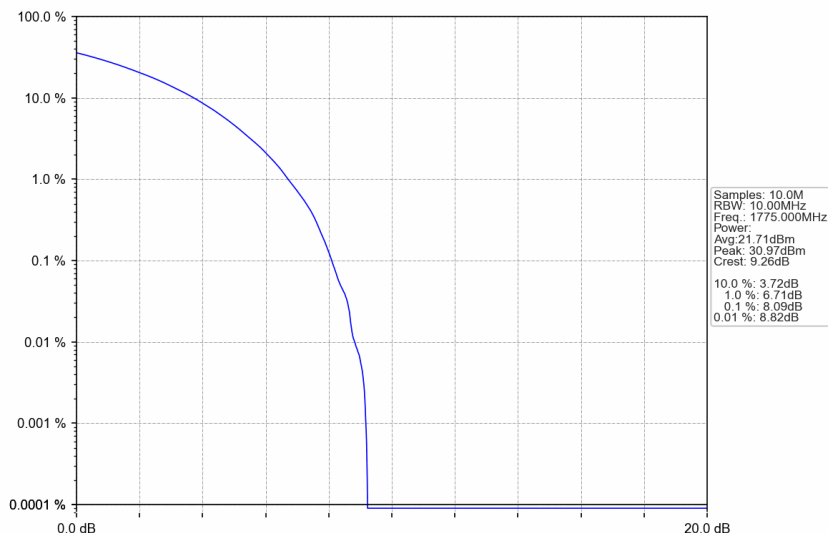


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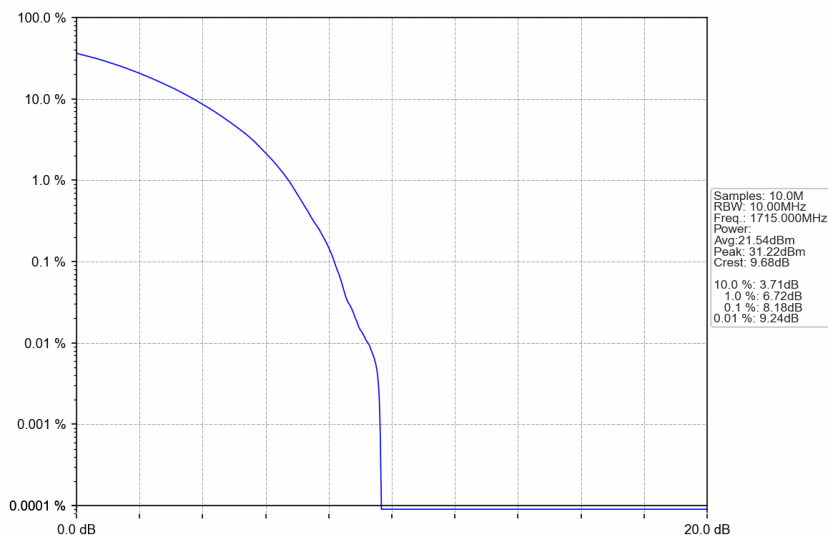
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n66_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_1715MHz_Outer_Full



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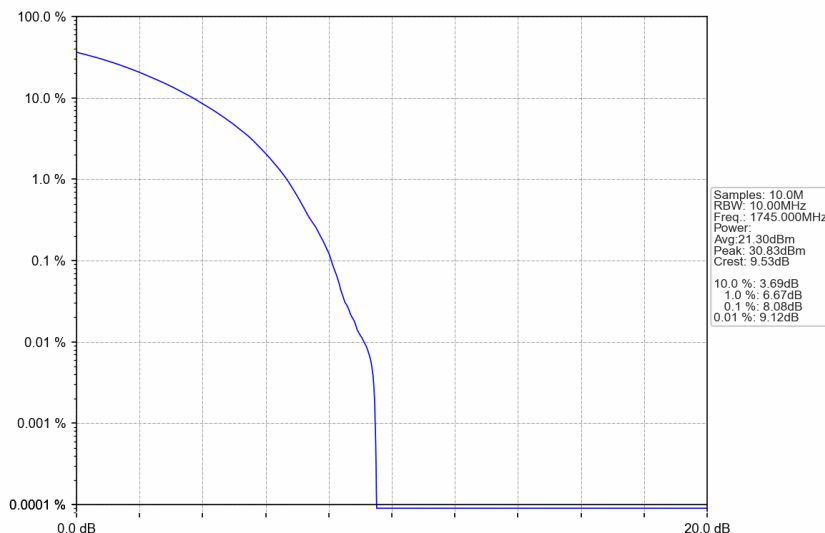


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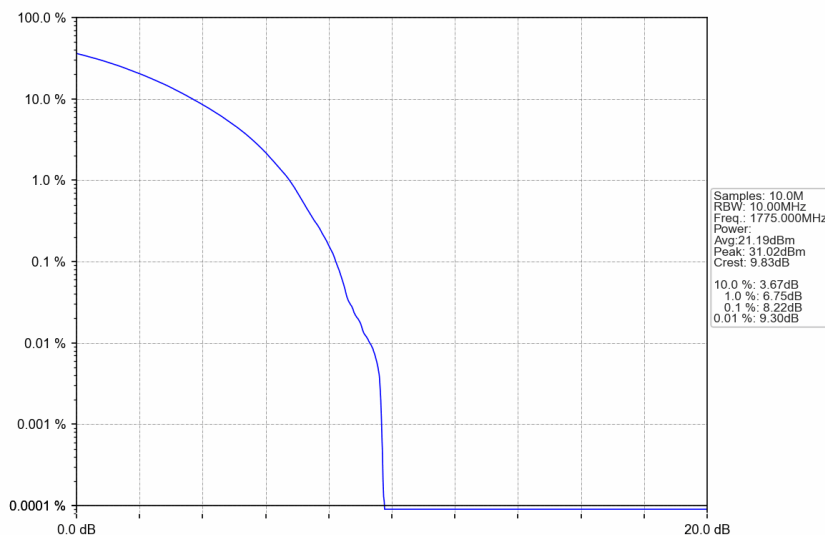
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n66_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_1775MHz_Outer_Full



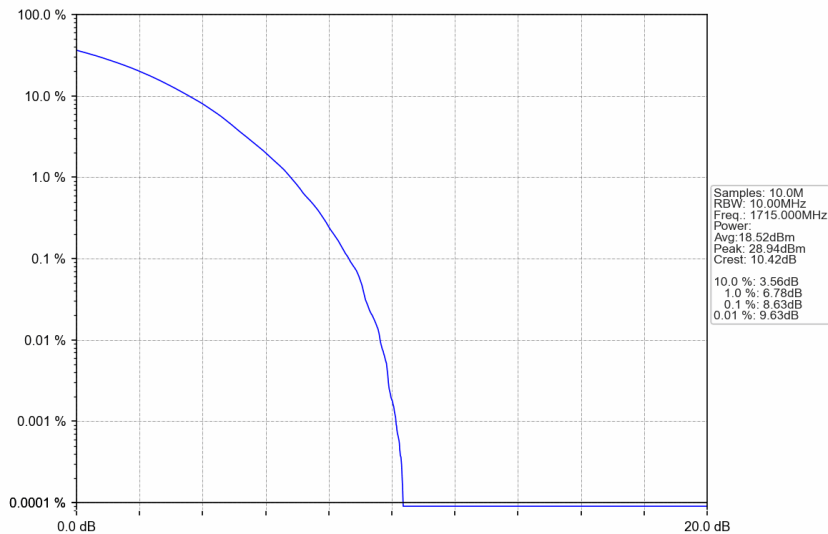
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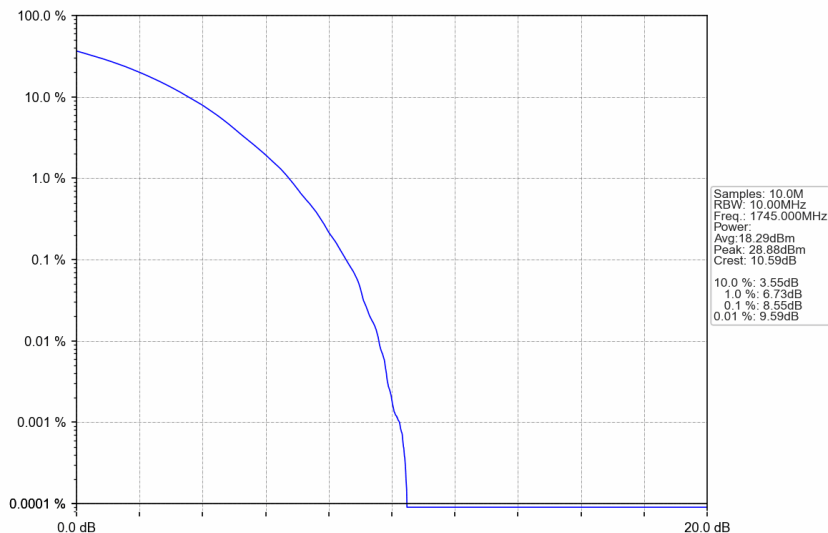
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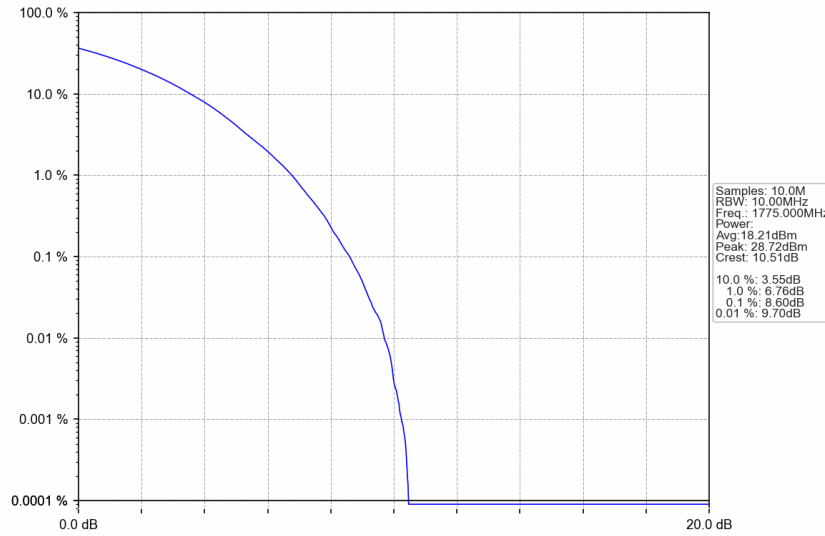


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5.10 30k_SISO_15MHz_NTNV

5.10.1 Test Result

5G NR n66 SCS=30kHz SISO 15MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	1717.5	Outer_Full	4.37	/	/	<=13	Pass
	1745	Outer_Full	4.33	/	/	<=13	Pass
	1772.5	Outer_Full	4.40	/	/	<=13	Pass
DFT-s-OFDM QPSK	1717.5	Outer_Full	5.67	/	/	<=13	Pass
	1745	Outer_Full	5.62	/	/	<=13	Pass
	1772.5	Outer_Full	5.69	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1717.5	Outer_Full	6.34	/	/	<=13	Pass
	1745	Outer_Full	6.27	/	/	<=13	Pass
	1772.5	Outer_Full	6.33	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1717.5	Outer_Full	6.61	/	/	<=13	Pass
	1745	Outer_Full	6.54	/	/	<=13	Pass
	1772.5	Outer_Full	6.66	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1717.5	Outer_Full	6.67	/	/	<=13	Pass
	1745	Outer_Full	6.66	/	/	<=13	Pass
	1772.5	Outer_Full	6.70	/	/	<=13	Pass
CP-OFDM QPSK	1717.5	Outer_Full	8.05	/	/	<=13	Pass
	1745	Outer_Full	7.97	/	/	<=13	Pass
	1772.5	Outer_Full	8.13	/	/	<=13	Pass
CP-OFDM 16 QAM	1717.5	Outer_Full	7.97	/	/	<=13	Pass
	1745	Outer_Full	7.87	/	/	<=13	Pass
	1772.5	Outer_Full	8.05	/	/	<=13	Pass
CP-OFDM 64 QAM	1717.5	Outer_Full	8.21	/	/	<=13	Pass
	1745	Outer_Full	8.13	/	/	<=13	Pass
	1772.5	Outer_Full	8.28	/	/	<=13	Pass
CP-OFDM 256 QAM	1717.5	Outer_Full	8.80	/	/	<=13	Pass
	1745	Outer_Full	8.72	/	/	<=13	Pass
	1772.5	Outer_Full	8.75	/	/	<=13	Pass

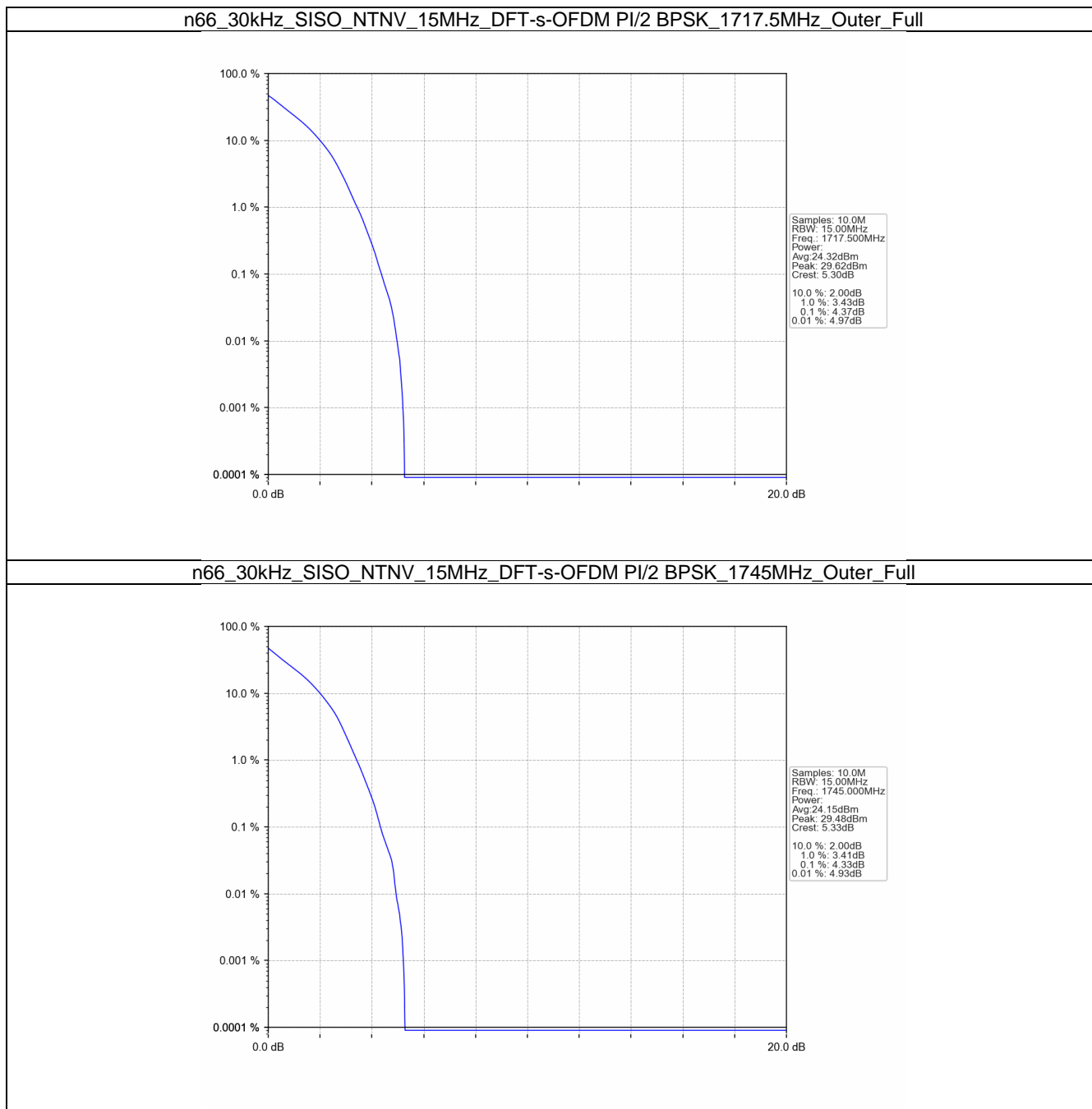


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5.10.2 Test Graph



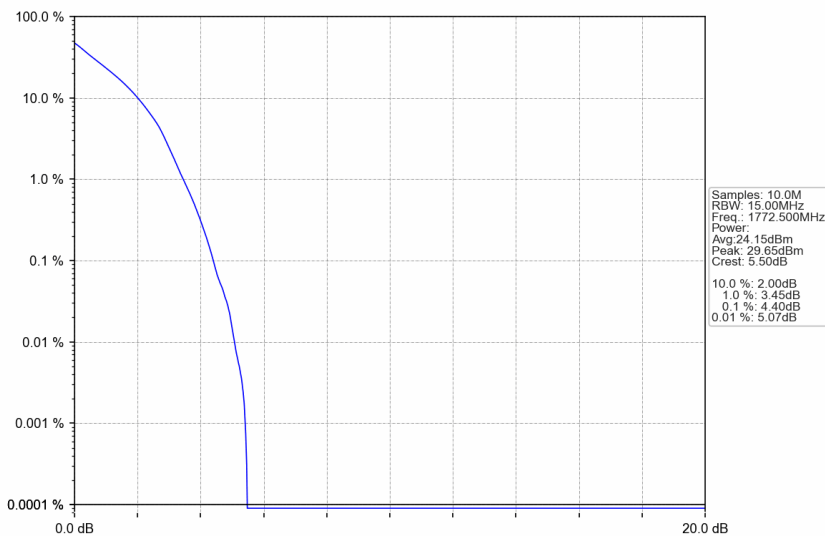
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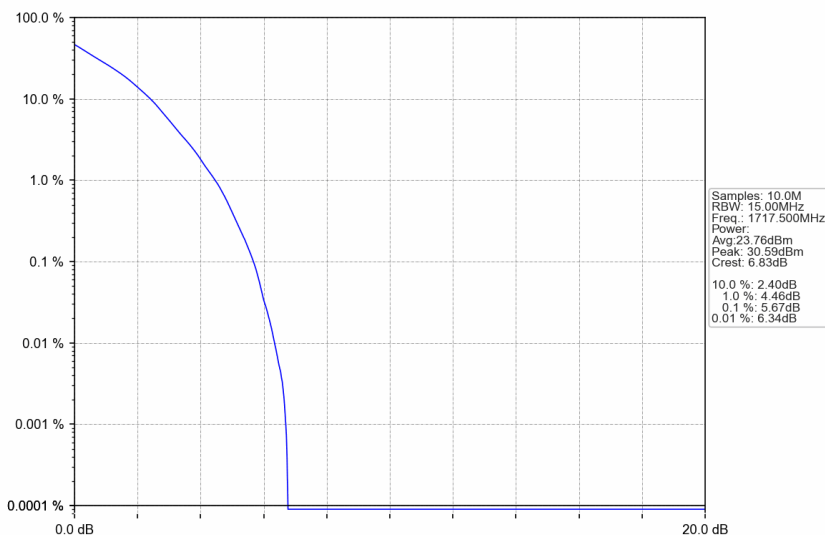
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n66_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1772.5MHz_Outer_Full



n66_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1717.5MHz_Outer_Full



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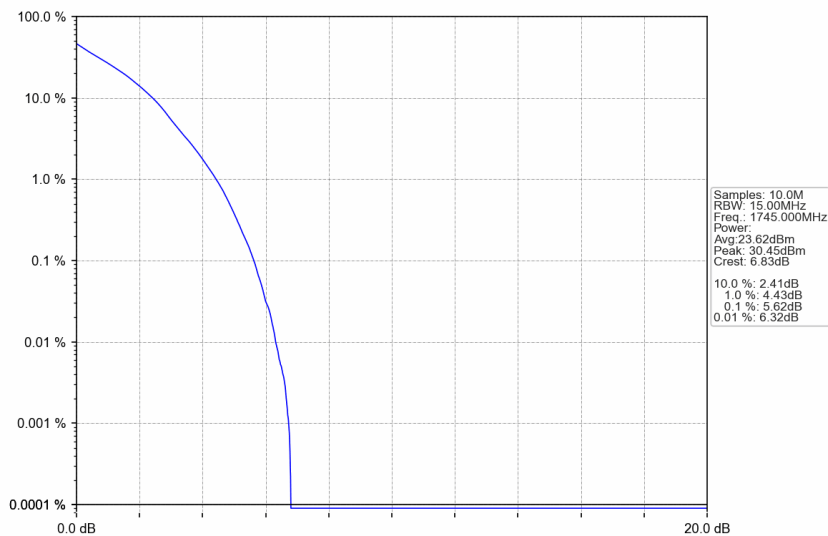


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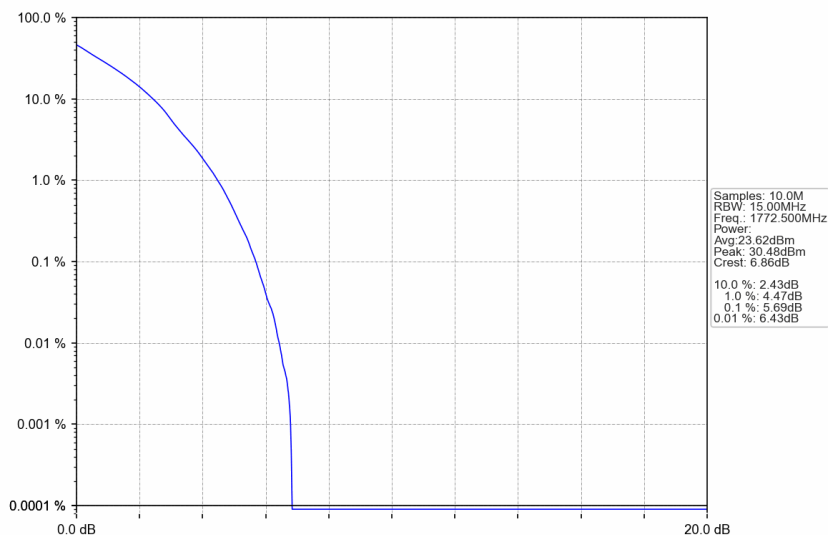
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n66_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1745MHz_Outer_Full



n66_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1772.5MHz_Outer_Full



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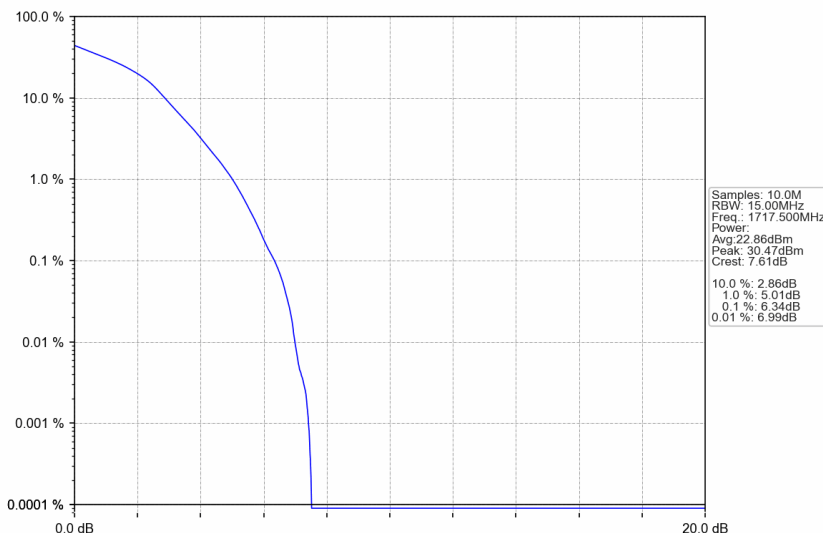


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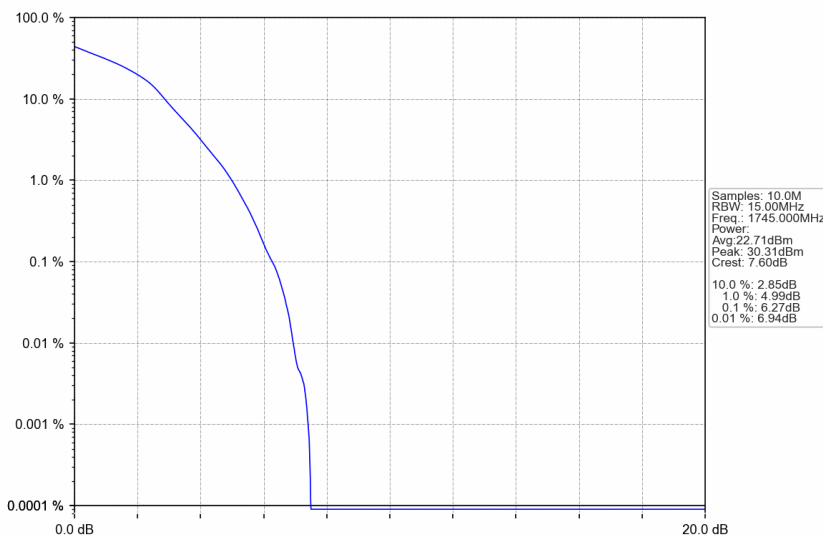
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n66_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_1717.5MHz_Outer_Full



n66_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_1745MHz_Outer_Full



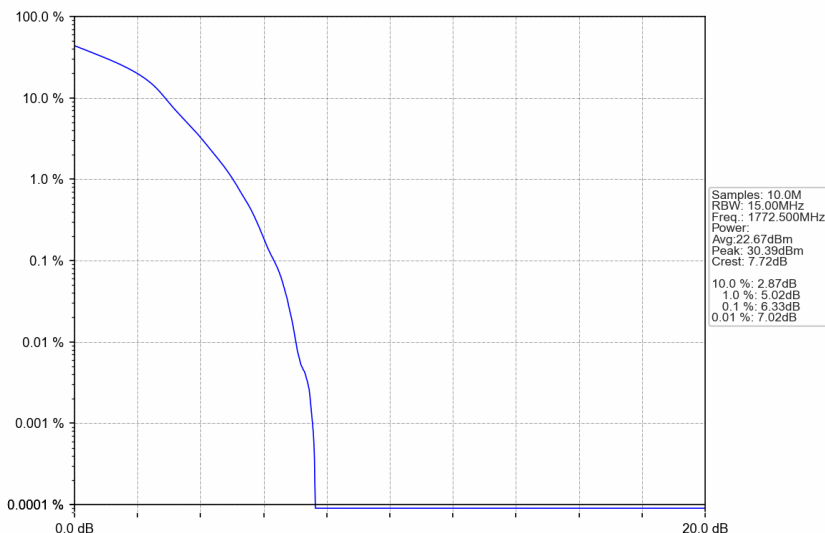
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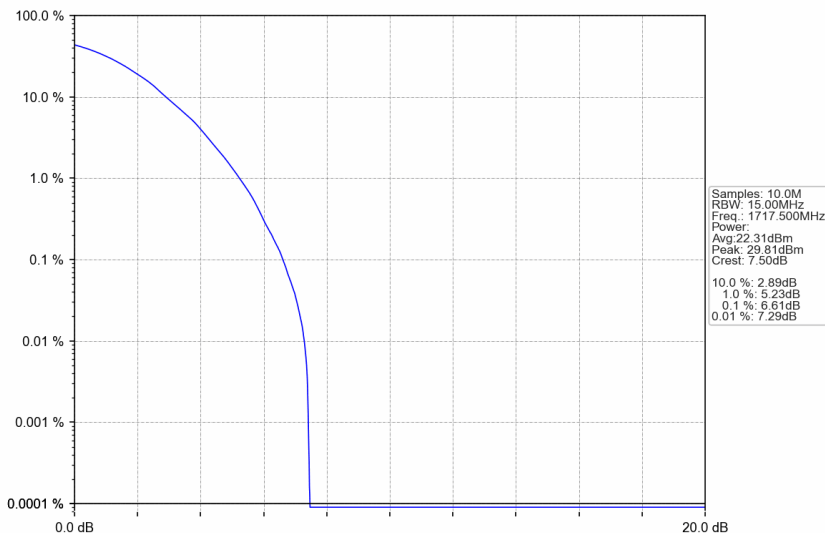
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n66_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_1717.5MHz_Outer_Full



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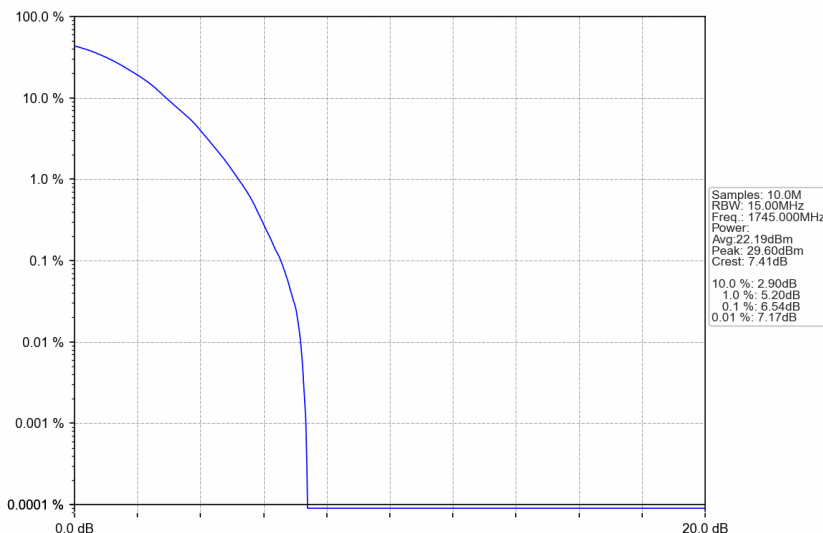
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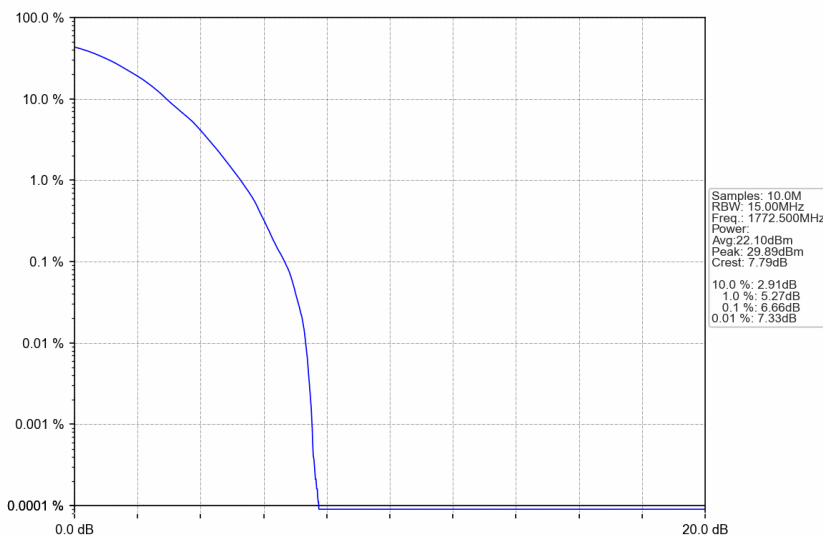
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n66_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_1745MHz_Outer_Full



n66_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_1772.5MHz_Outer_Full

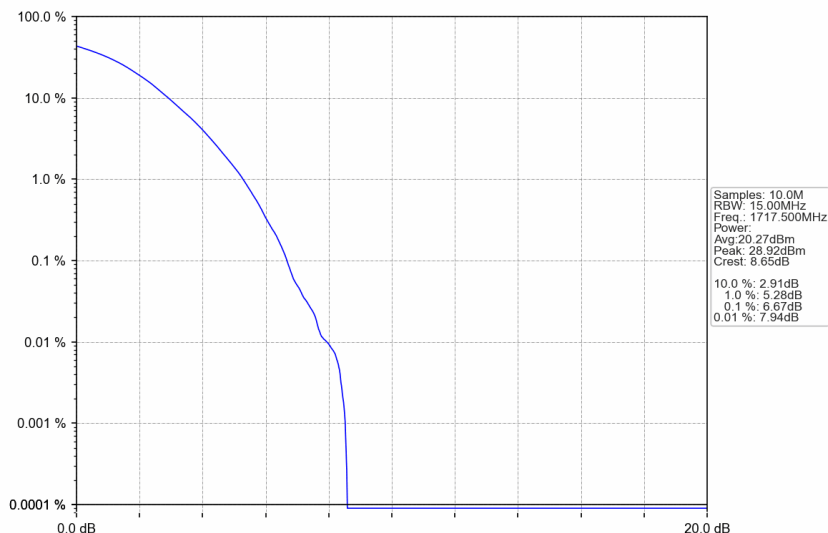


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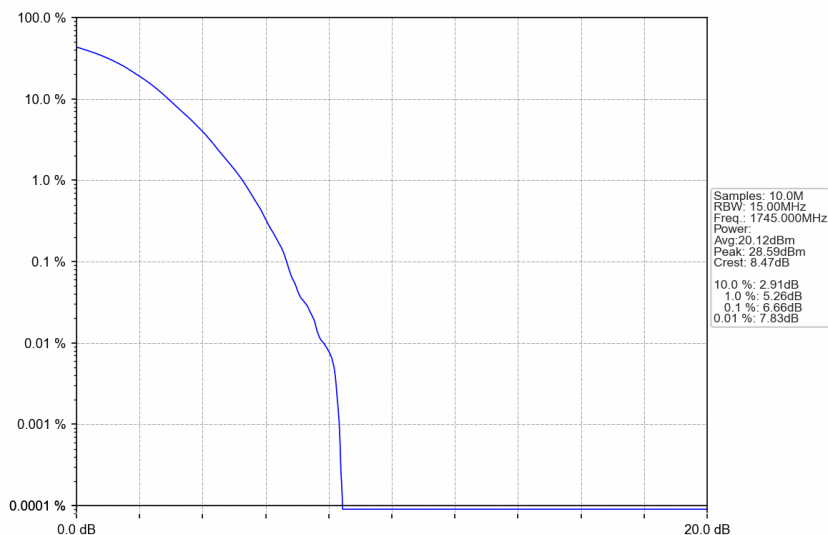
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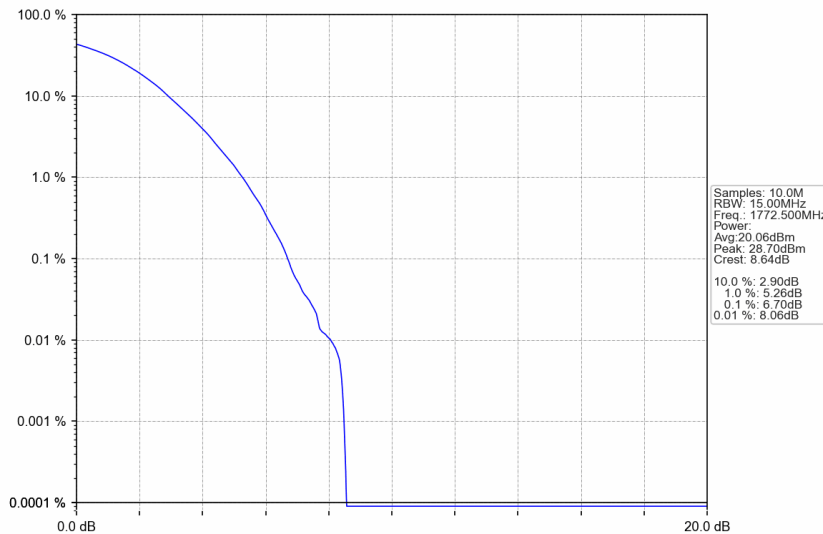
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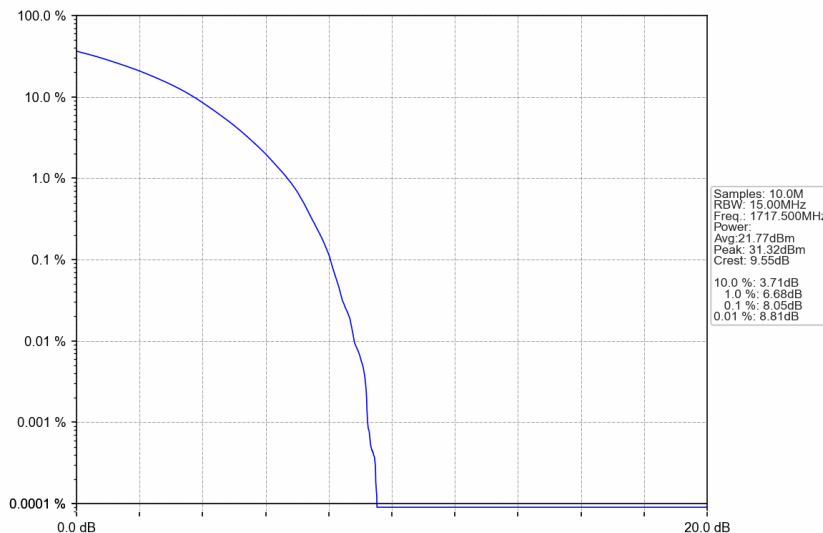
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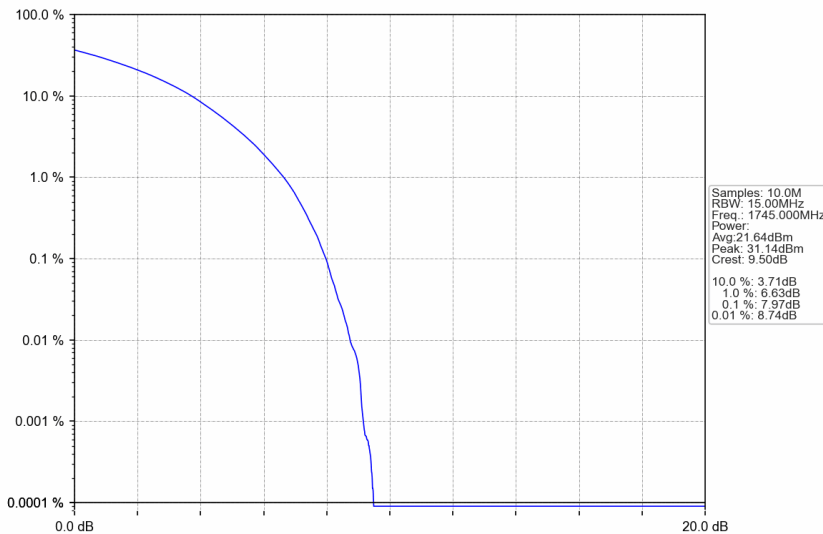
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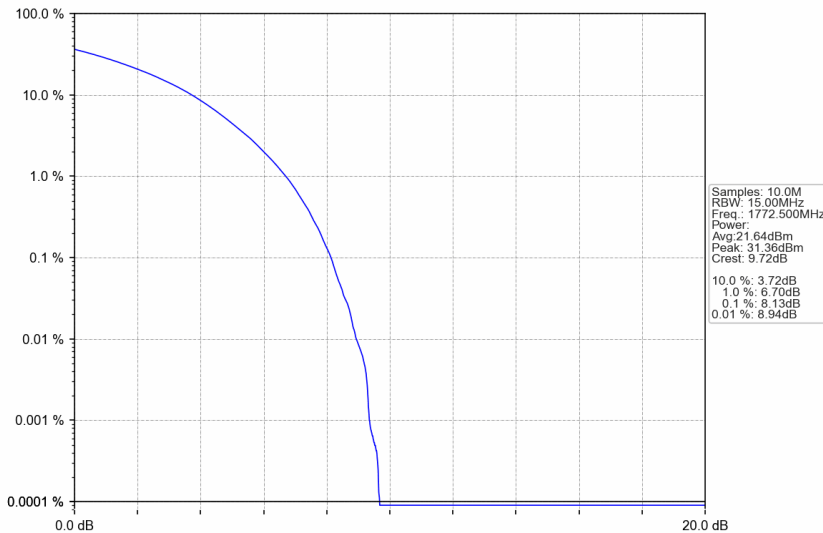
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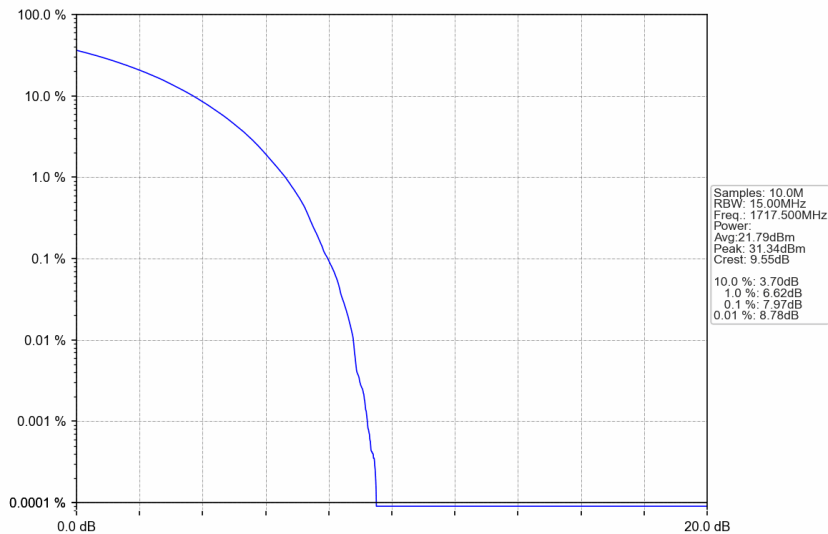


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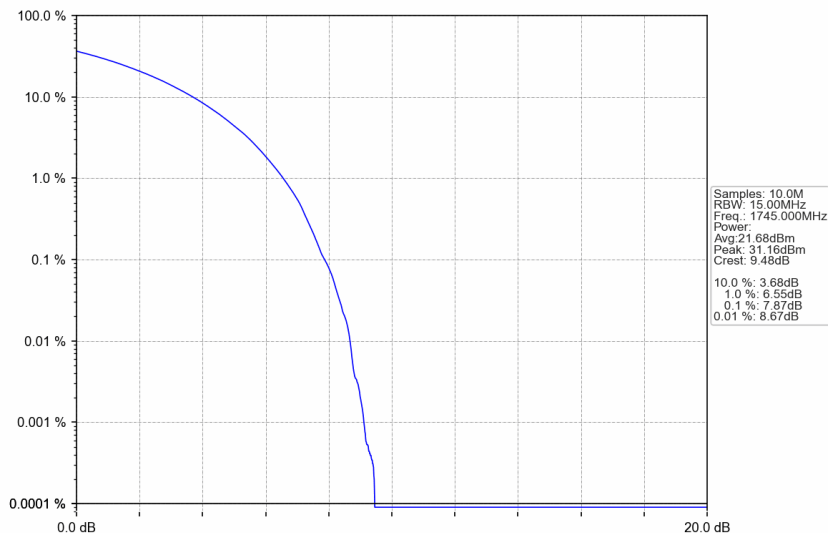
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n66_30kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_1717.5MHz_Outer_Full



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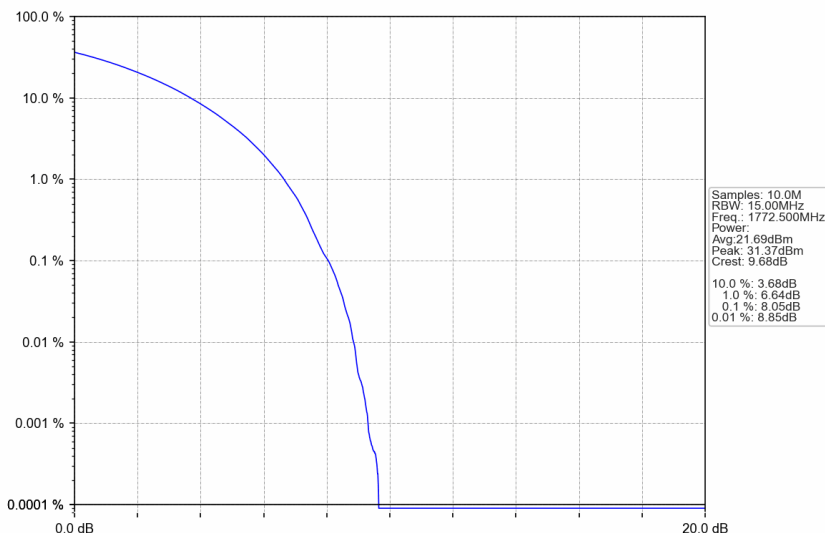
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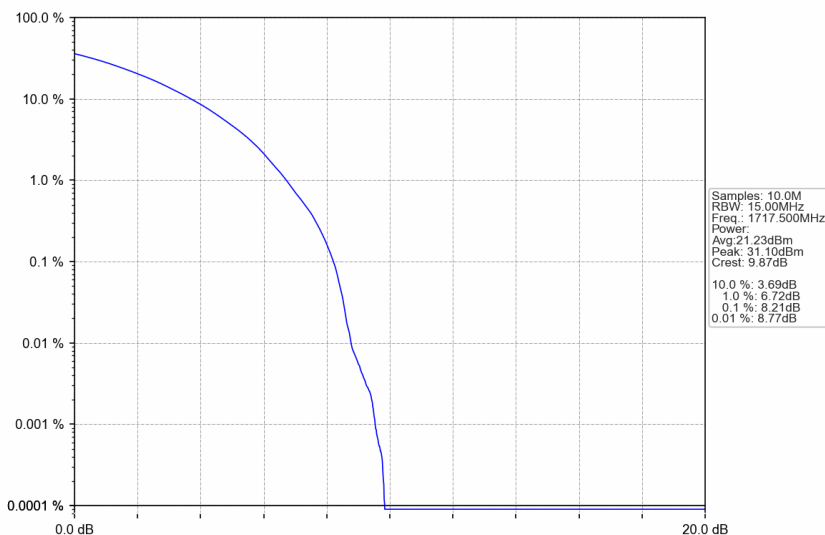
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n66_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_1717.5MHz_Outer_Full

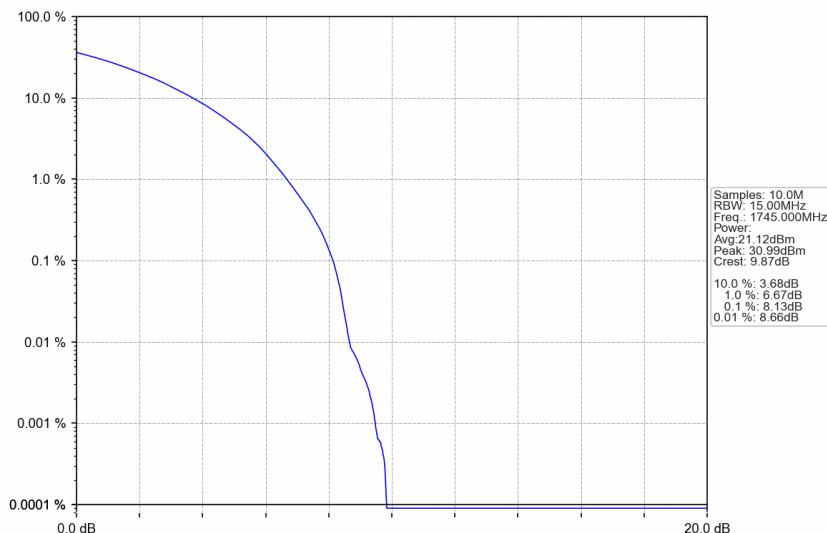


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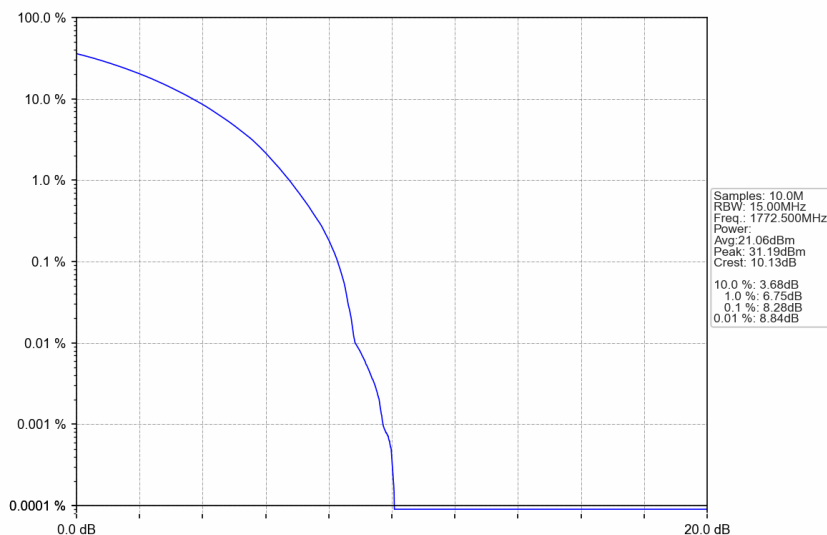
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n66_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_1745MHz_Outer_Full



n66_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_1772.5MHz_Outer_Full



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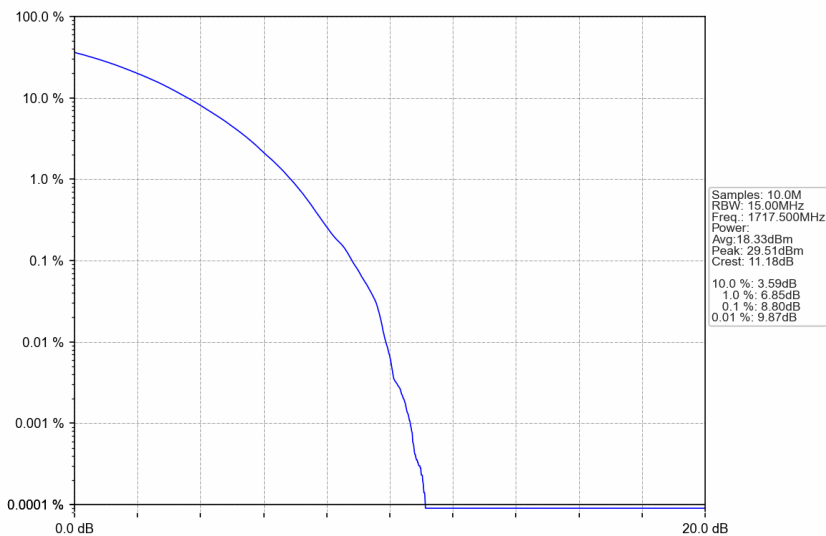
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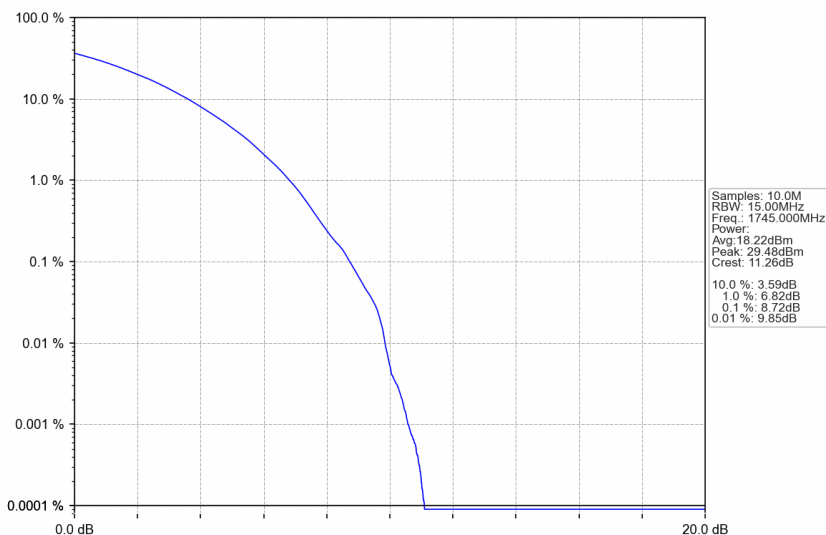
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n66_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_1717.5MHz_Outer_Full



n66_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_1745MHz_Outer_Full



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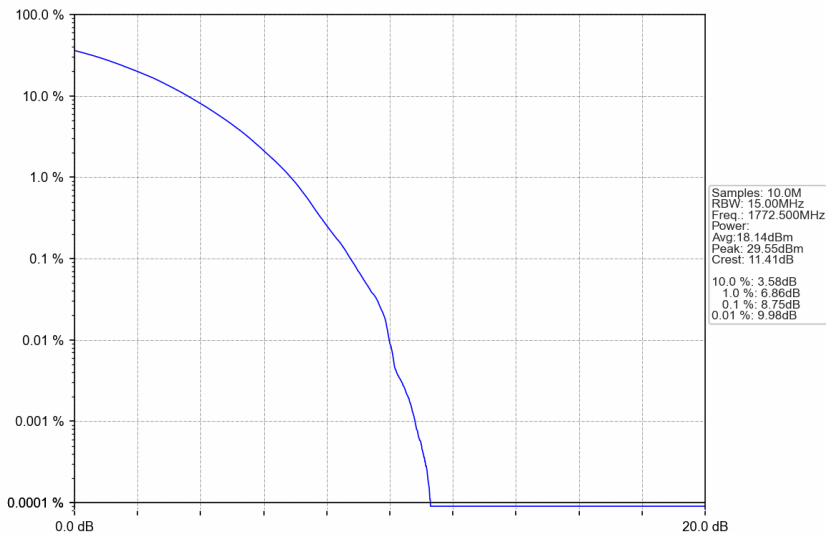


Report No.: SEWM2311000456RG02

Rev.: 01

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n66_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_1772.5MHz_Outer_Full



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5.11 30k_SISO_20MHz_NTNV

5.11.1 Test Result

5G NR n66 SCS=30kHz SISO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	1720	Outer_Full	4.40	/	/	<=13	Pass
	1745	Outer_Full	4.41	/	/	<=13	Pass
	1770	Outer_Full	4.49	/	/	<=13	Pass
DFT-s-OFDM QPSK	1720	Outer_Full	5.43	/	/	<=13	Pass
	1745	Outer_Full	5.44	/	/	<=13	Pass
	1770	Outer_Full	5.50	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1720	Outer_Full	6.28	/	/	<=13	Pass
	1745	Outer_Full	6.25	/	/	<=13	Pass
	1770	Outer_Full	6.33	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1720	Outer_Full	6.50	/	/	<=13	Pass
	1745	Outer_Full	6.47	/	/	<=13	Pass
	1770	Outer_Full	6.53	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1720	Outer_Full	6.73	/	/	<=13	Pass
	1745	Outer_Full	6.70	/	/	<=13	Pass
	1770	Outer_Full	6.69	/	/	<=13	Pass
CP-OFDM QPSK	1720	Outer_Full	8.12	/	/	<=13	Pass
	1745	Outer_Full	8.02	/	/	<=13	Pass
	1770	Outer_Full	8.15	/	/	<=13	Pass
CP-OFDM 16 QAM	1720	Outer_Full	8.08	/	/	<=13	Pass
	1745	Outer_Full	7.98	/	/	<=13	Pass
	1770	Outer_Full	8.12	/	/	<=13	Pass
CP-OFDM 64 QAM	1720	Outer_Full	8.22	/	/	<=13	Pass
	1745	Outer_Full	8.13	/	/	<=13	Pass
	1770	Outer_Full	8.23	/	/	<=13	Pass
CP-OFDM 256 QAM	1720	Outer_Full	8.87	/	/	<=13	Pass
	1745	Outer_Full	8.83	/	/	<=13	Pass
	1770	Outer_Full	8.85	/	/	<=13	Pass

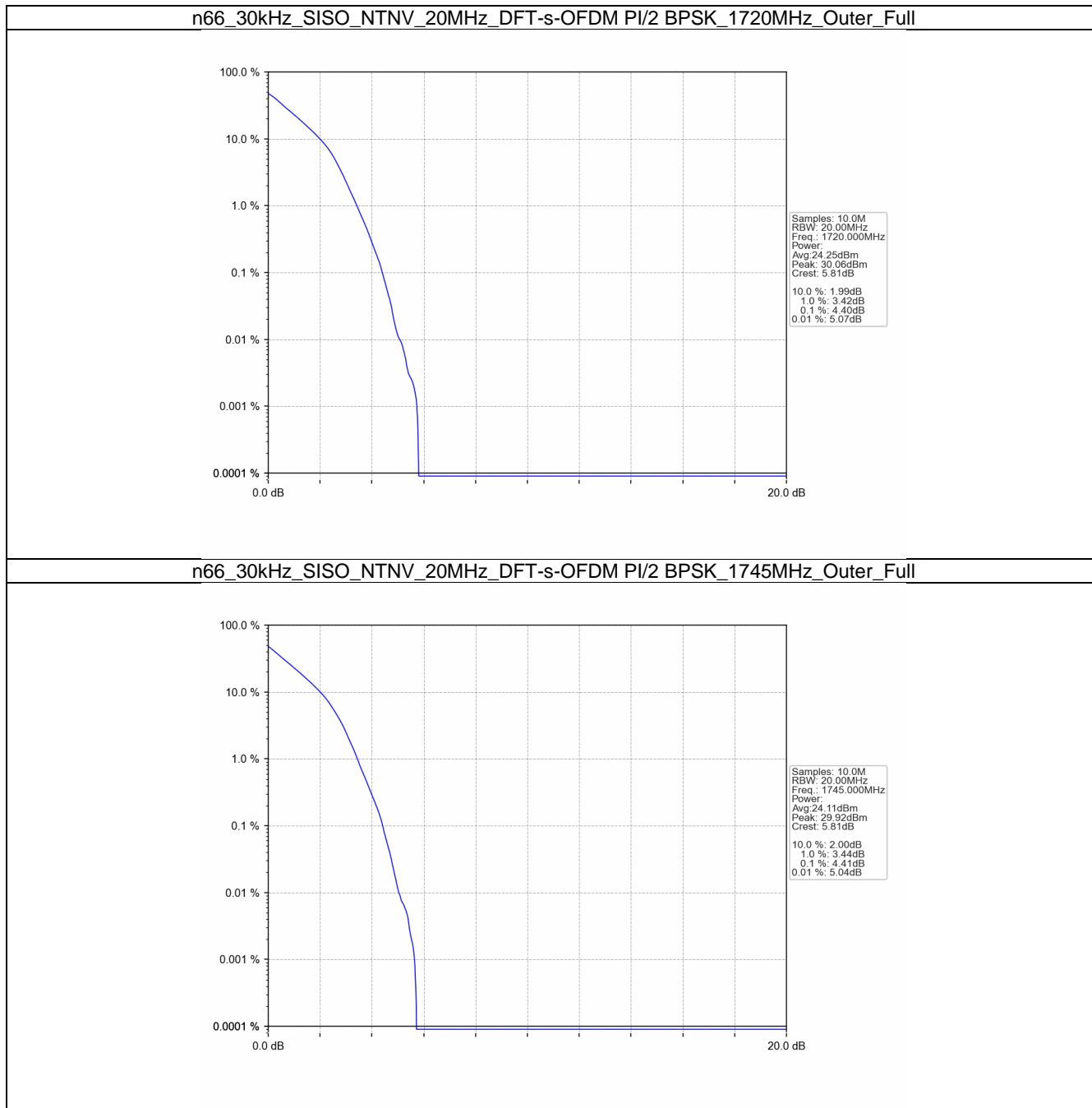


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5.11.2 Test Graph

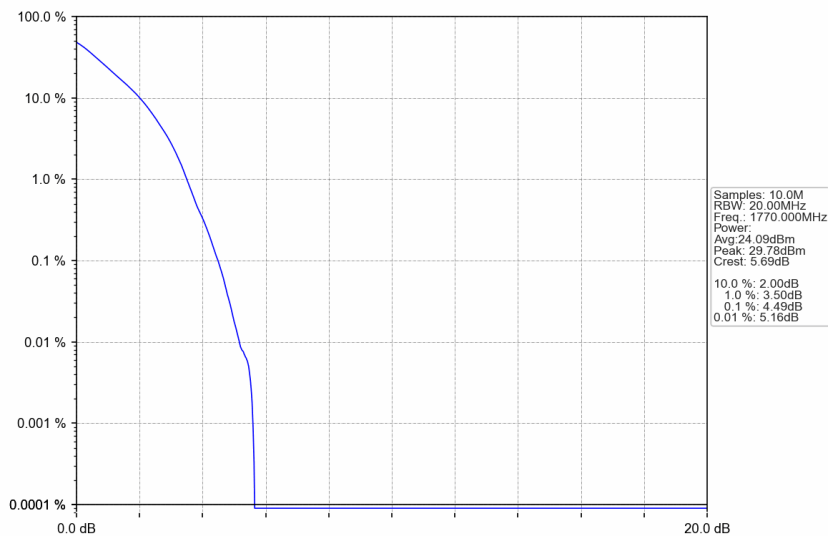


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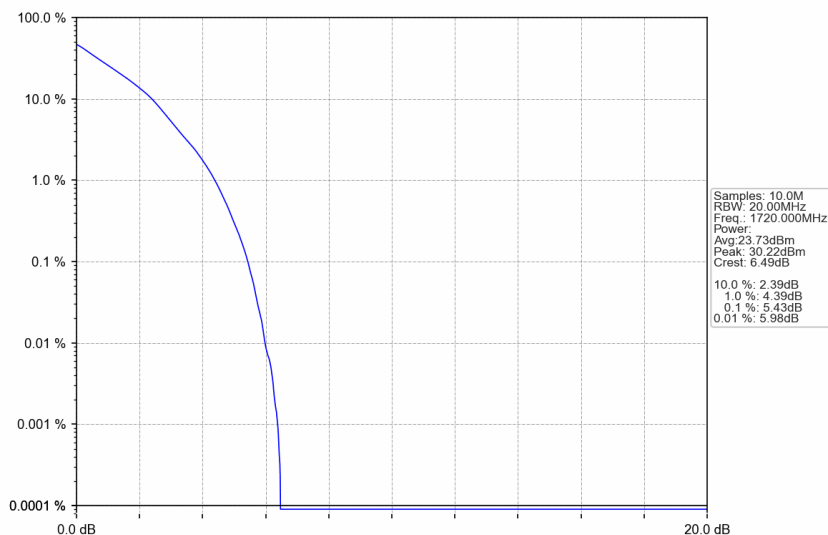
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n66_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_1720MHz_Outer_Full

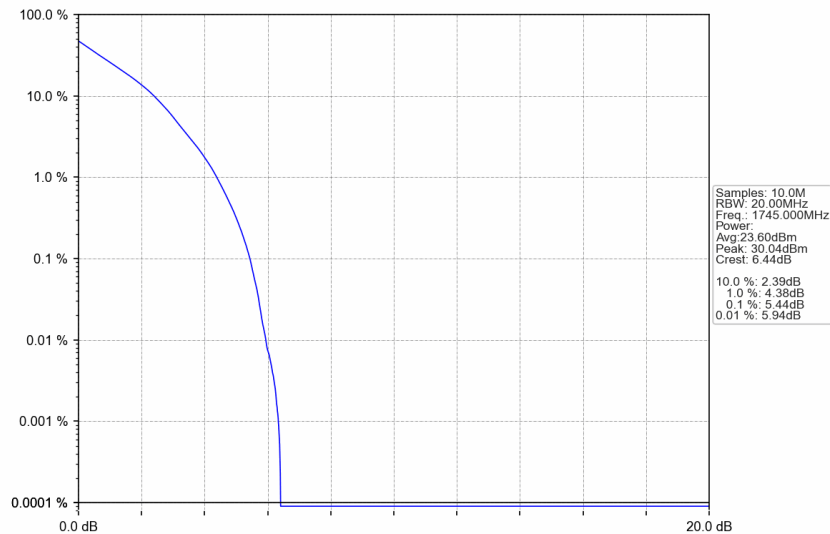


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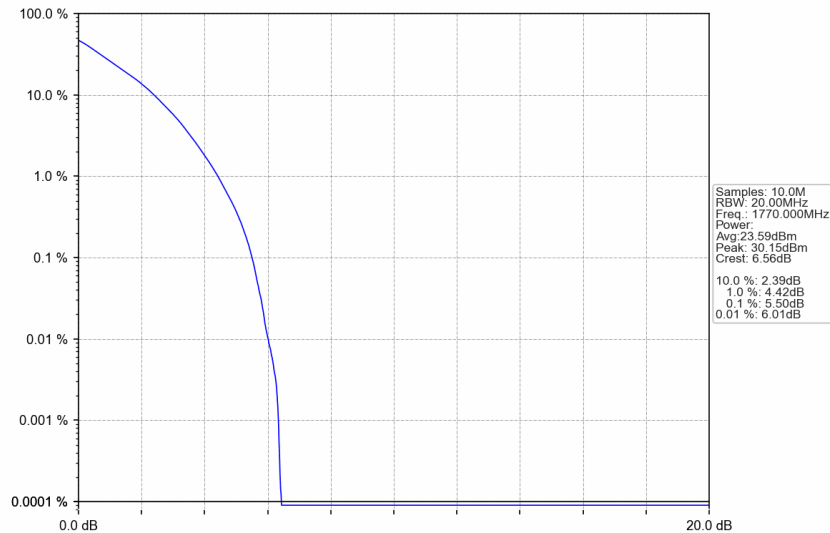
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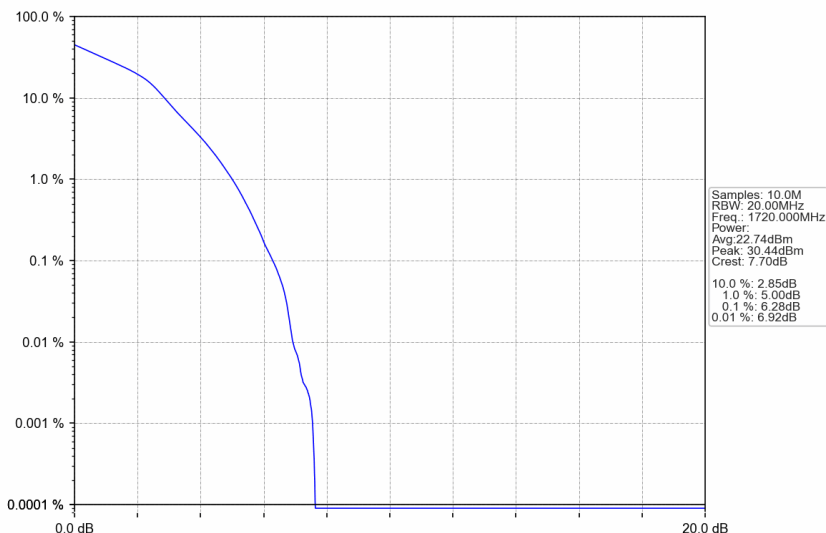


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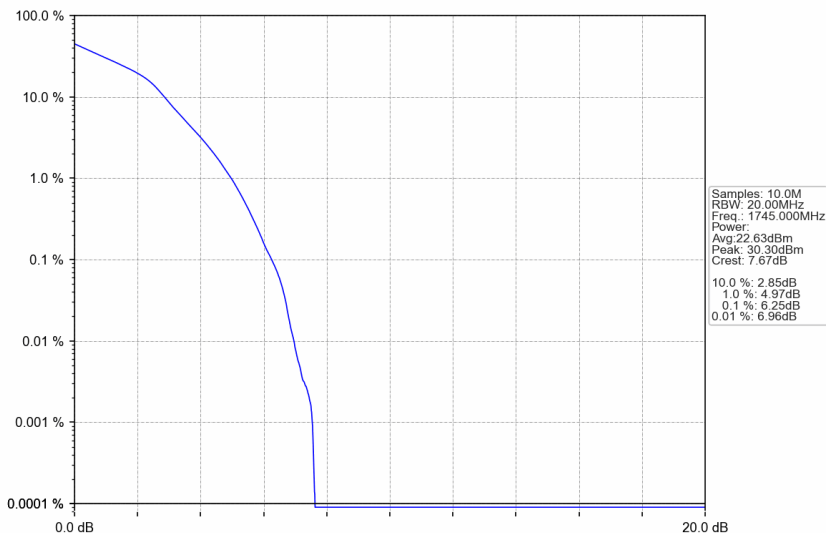
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n66_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_1745MHz_Outer_Full



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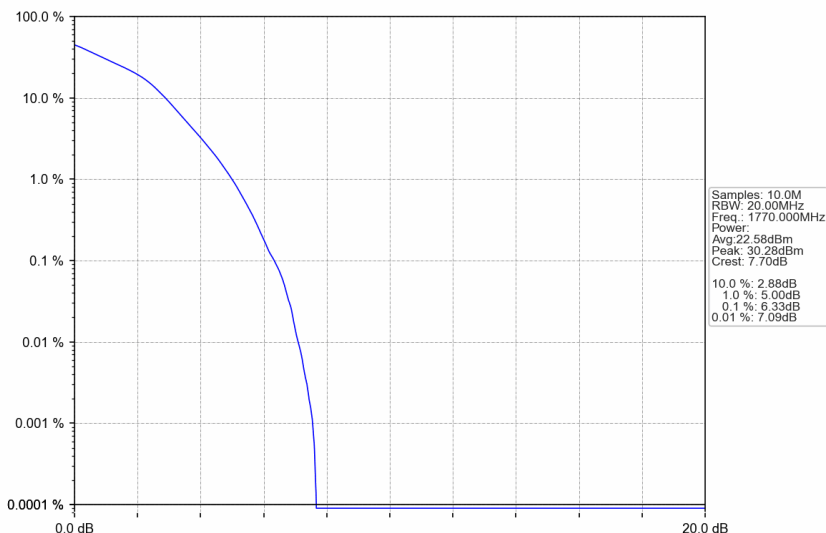
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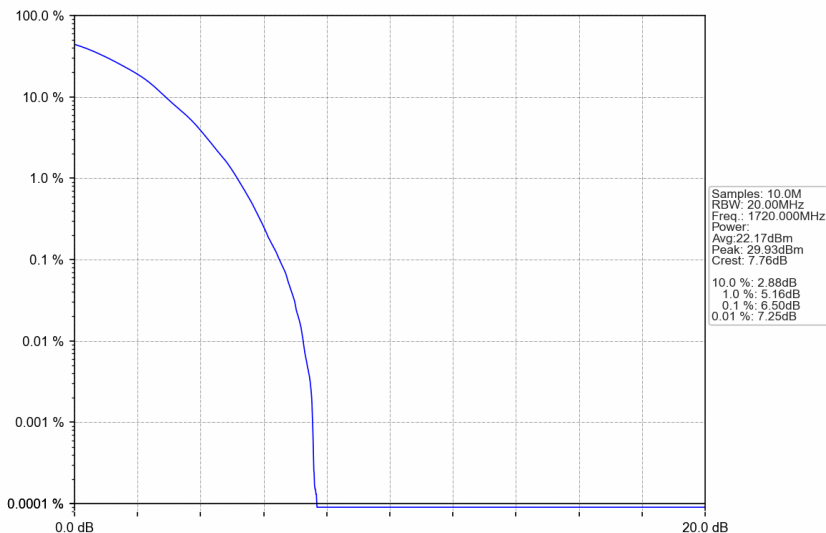
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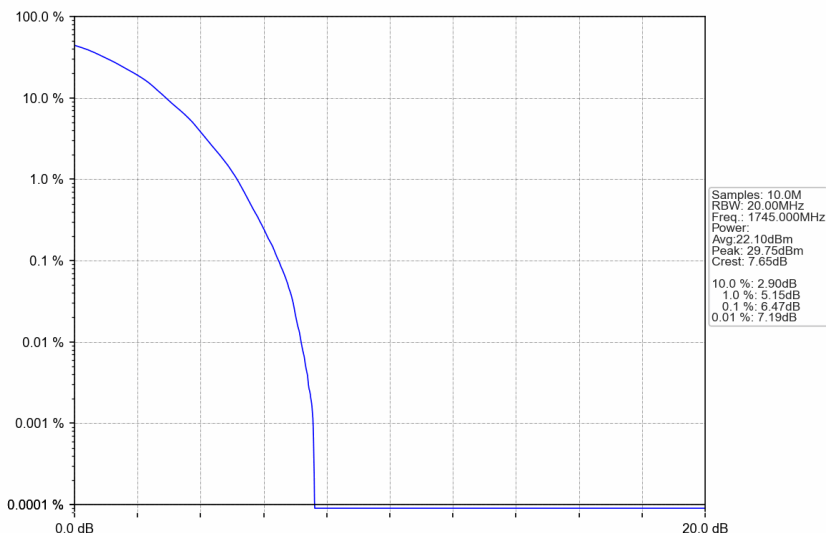


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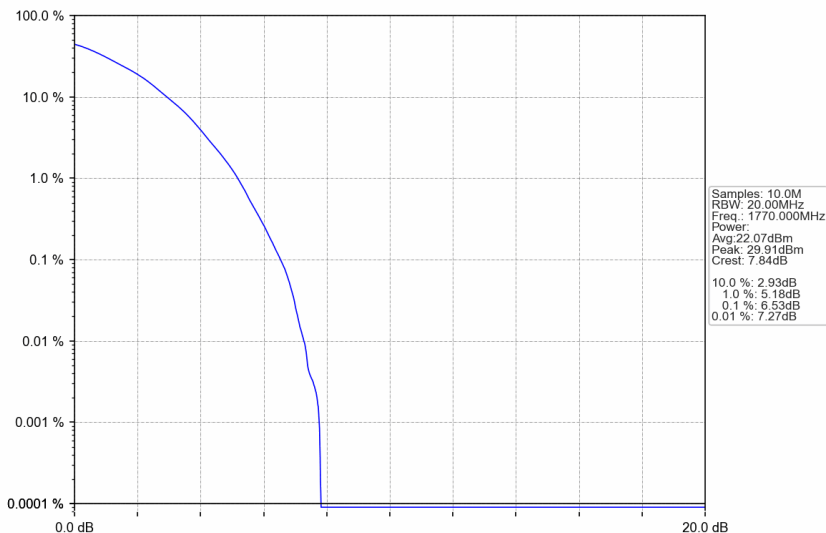
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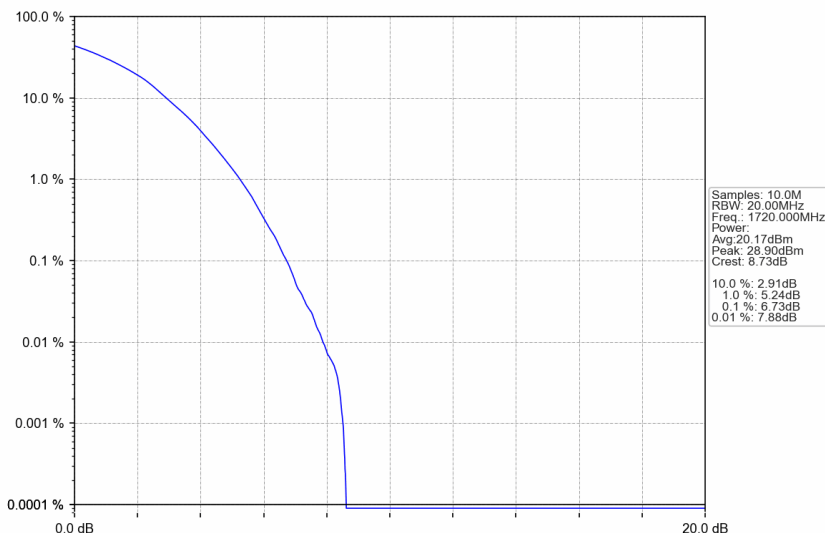


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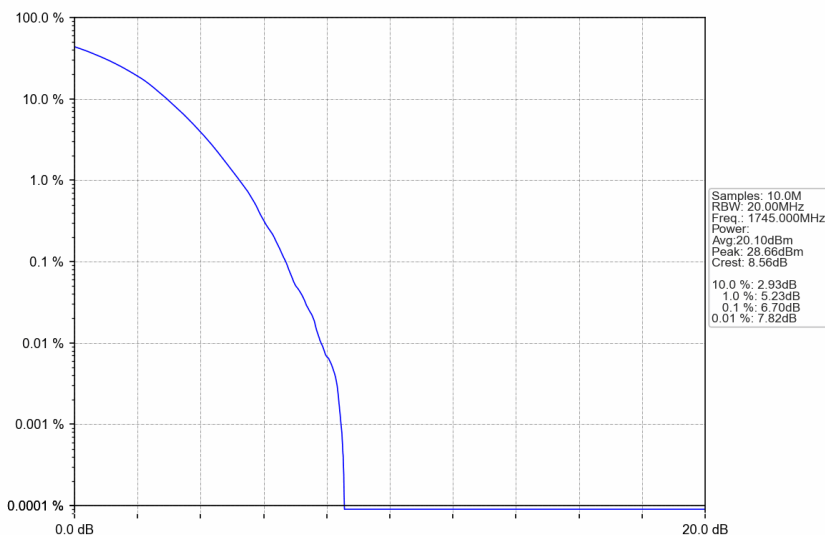
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n66_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_1720MHz_Outer_Full



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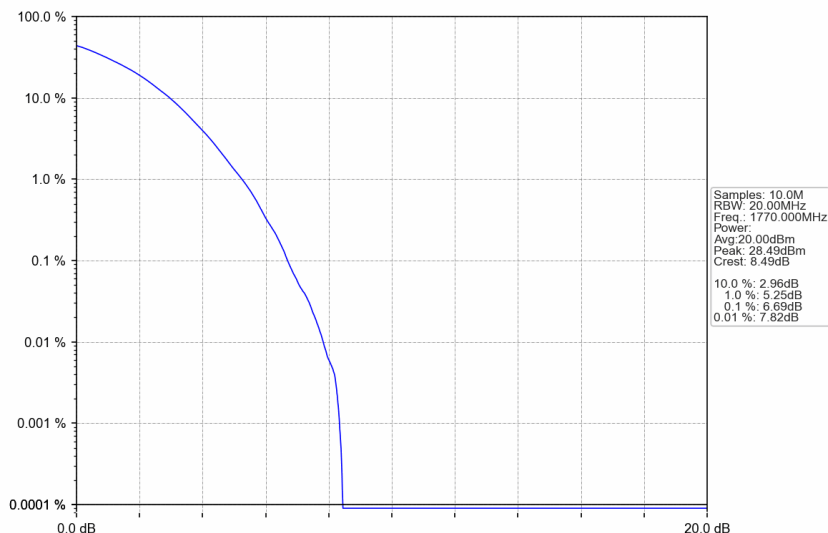


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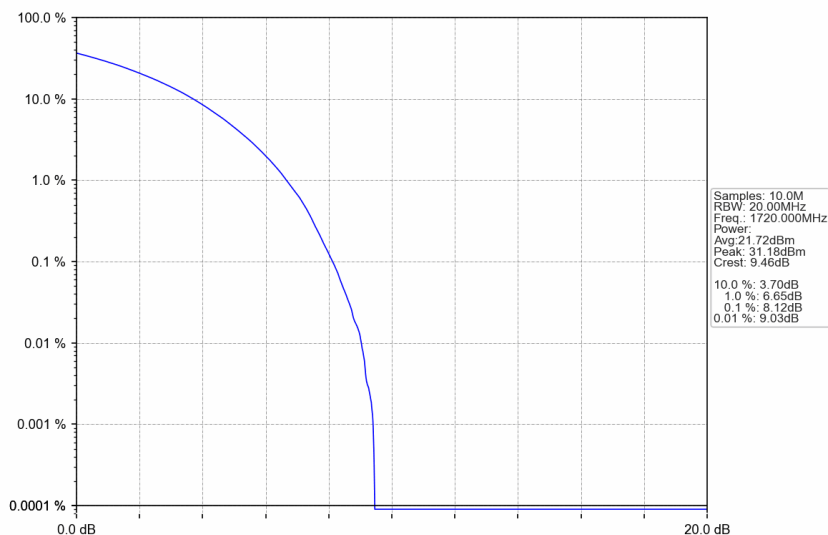
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n66_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_1720MHz_Outer_Full



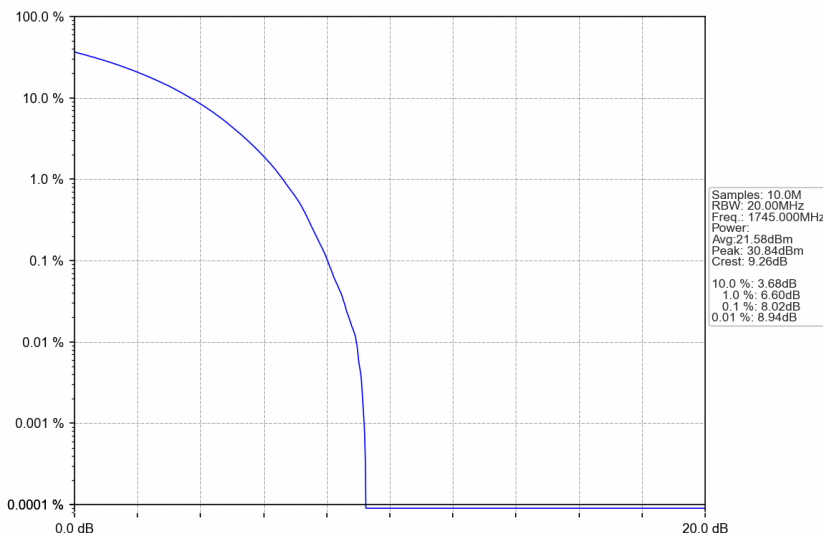
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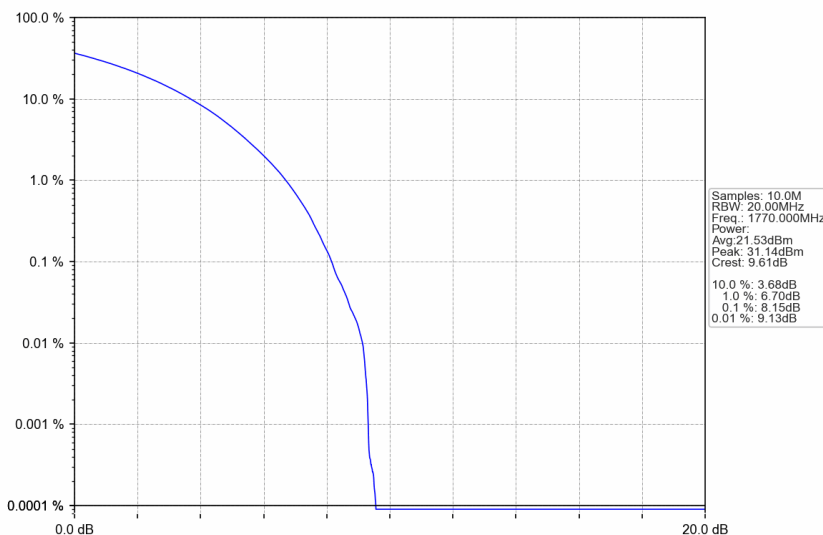
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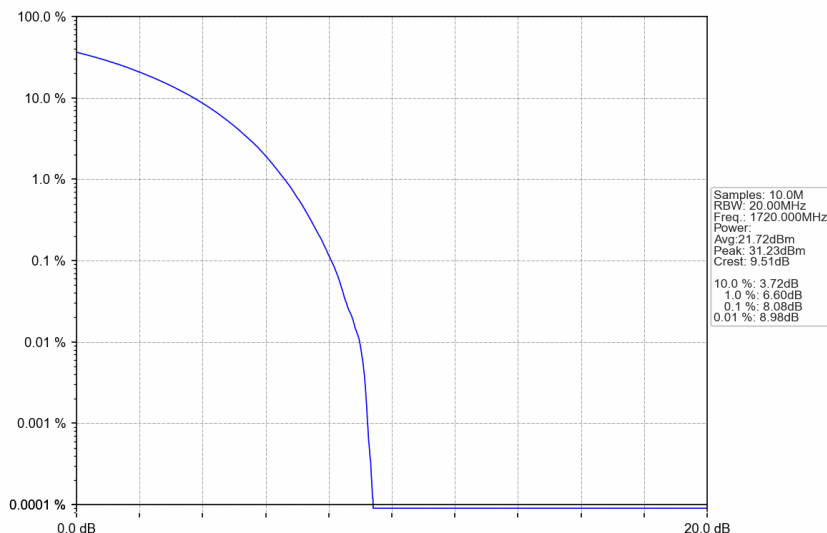


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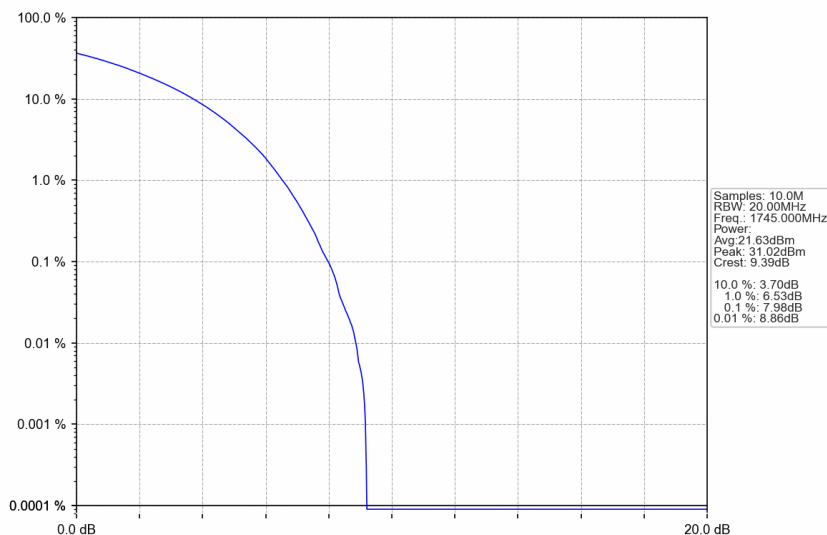
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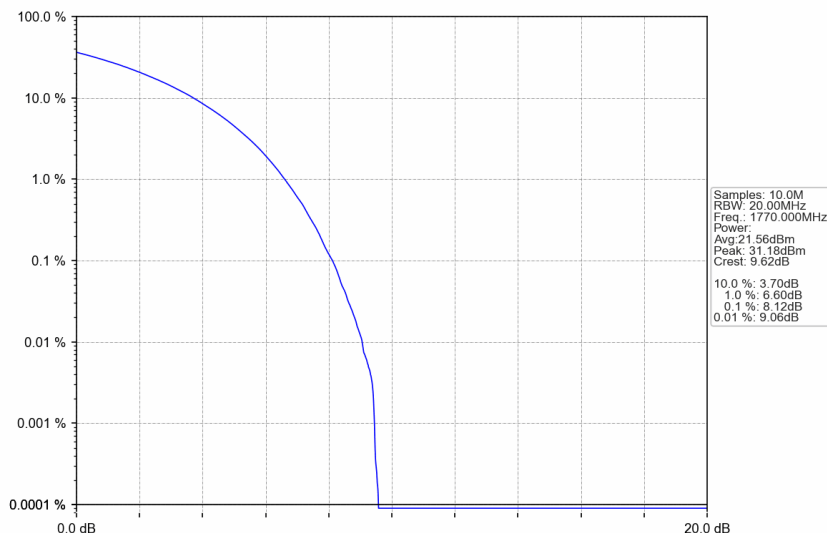
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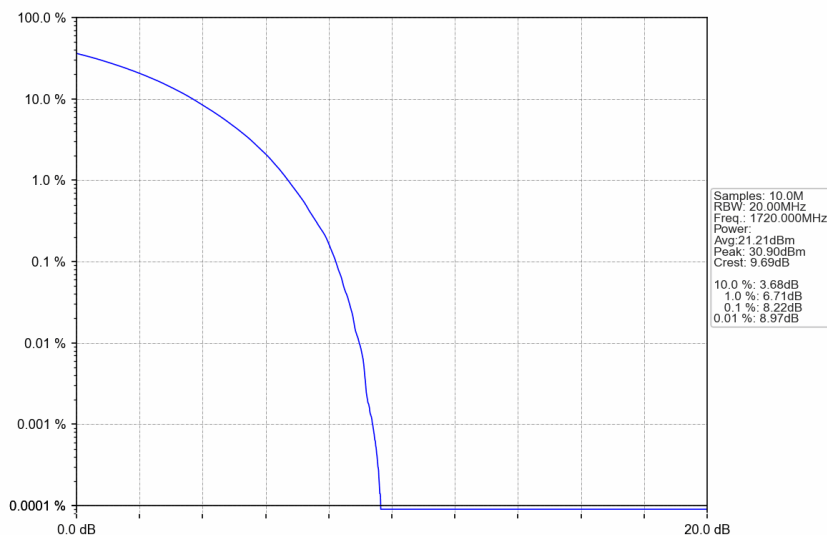
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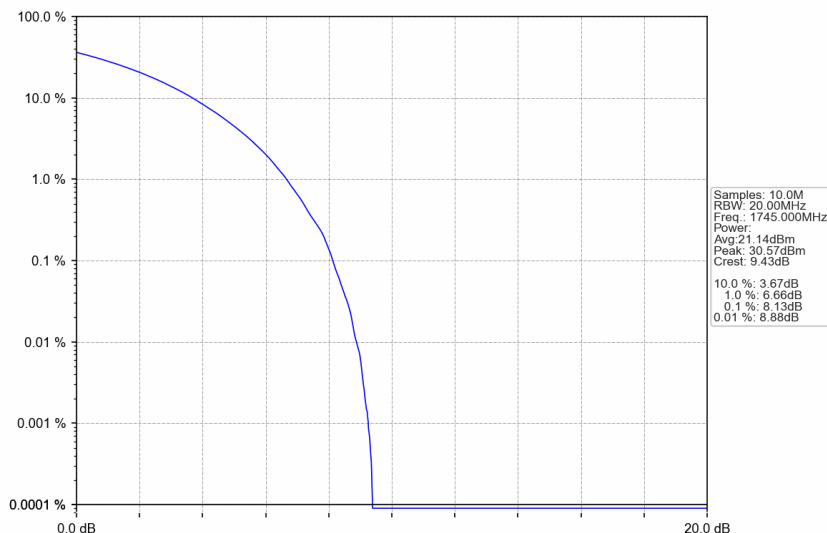
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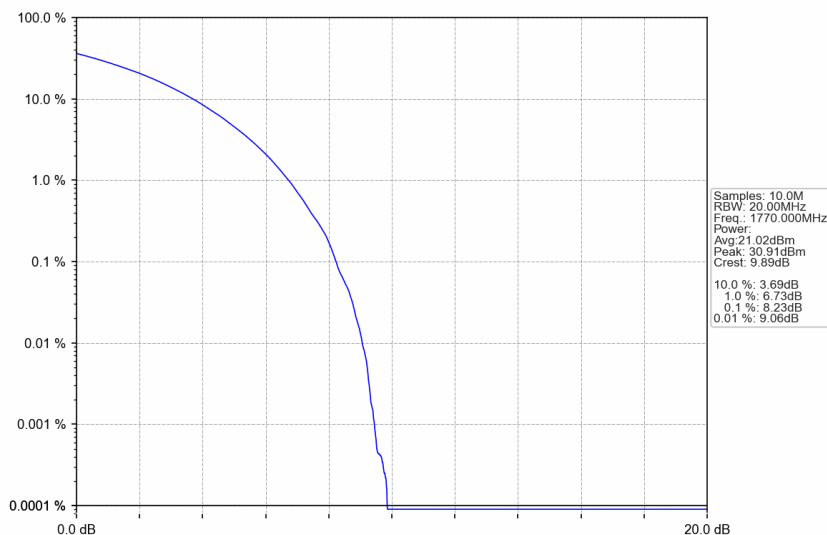
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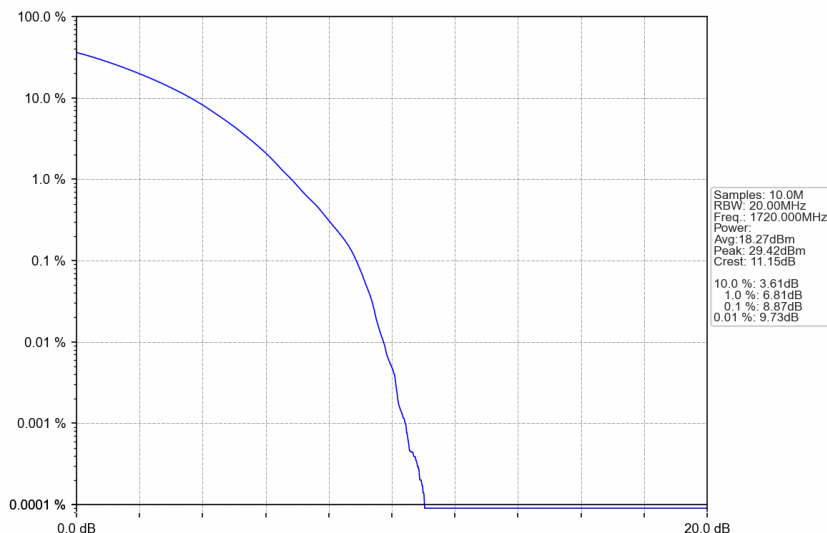
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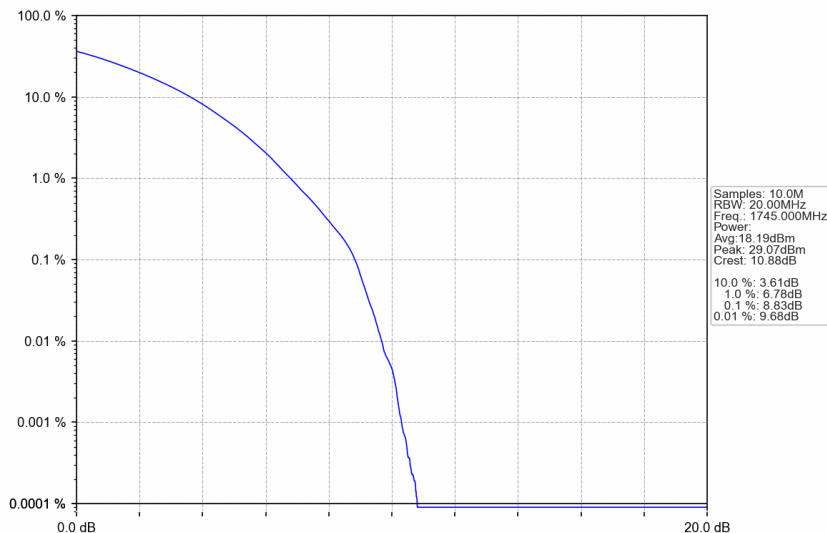
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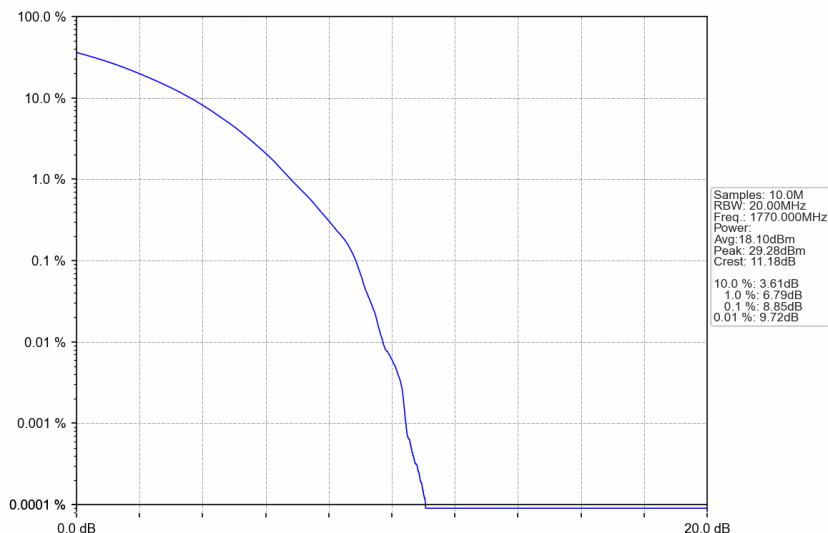


Report No.: SEWM2311000456RG02

Rev.: 01

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5.12 30k_SISO_25MHz_NTNV

5.12.1 Test Result

5G NR n66 SCS=30kHz SISO 25MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	1722.5	Outer_Full	3.36	/	/	<=13	Pass
	1745	Outer_Full	3.38	/	/	<=13	Pass
	1767.5	Outer_Full	3.44	/	/	<=13	Pass
DFT-s-OFDM QPSK	1722.5	Outer_Full	5.08	/	/	<=13	Pass
	1745	Outer_Full	5.08	/	/	<=13	Pass
	1767.5	Outer_Full	5.12	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1722.5	Outer_Full	6.17	/	/	<=13	Pass
	1745	Outer_Full	6.15	/	/	<=13	Pass
	1767.5	Outer_Full	6.21	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1722.5	Outer_Full	6.52	/	/	<=13	Pass
	1745	Outer_Full	6.51	/	/	<=13	Pass
	1767.5	Outer_Full	6.56	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1722.5	Outer_Full	6.68	/	/	<=13	Pass
	1745	Outer_Full	6.68	/	/	<=13	Pass
	1767.5	Outer_Full	6.73	/	/	<=13	Pass
CP-OFDM QPSK	1722.5	Outer_Full	8.06	/	/	<=13	Pass
	1745	Outer_Full	8.02	/	/	<=13	Pass
	1767.5	Outer_Full	8.14	/	/	<=13	Pass
CP-OFDM 16 QAM	1722.5	Outer_Full	8.12	/	/	<=13	Pass
	1745	Outer_Full	8.08	/	/	<=13	Pass
	1767.5	Outer_Full	8.16	/	/	<=13	Pass
CP-OFDM 64 QAM	1722.5	Outer_Full	8.29	/	/	<=13	Pass
	1745	Outer_Full	8.25	/	/	<=13	Pass
	1767.5	Outer_Full	8.33	/	/	<=13	Pass
CP-OFDM 256 QAM	1722.5	Outer_Full	8.74	/	/	<=13	Pass
	1745	Outer_Full	8.67	/	/	<=13	Pass
	1767.5	Outer_Full	8.71	/	/	<=13	Pass

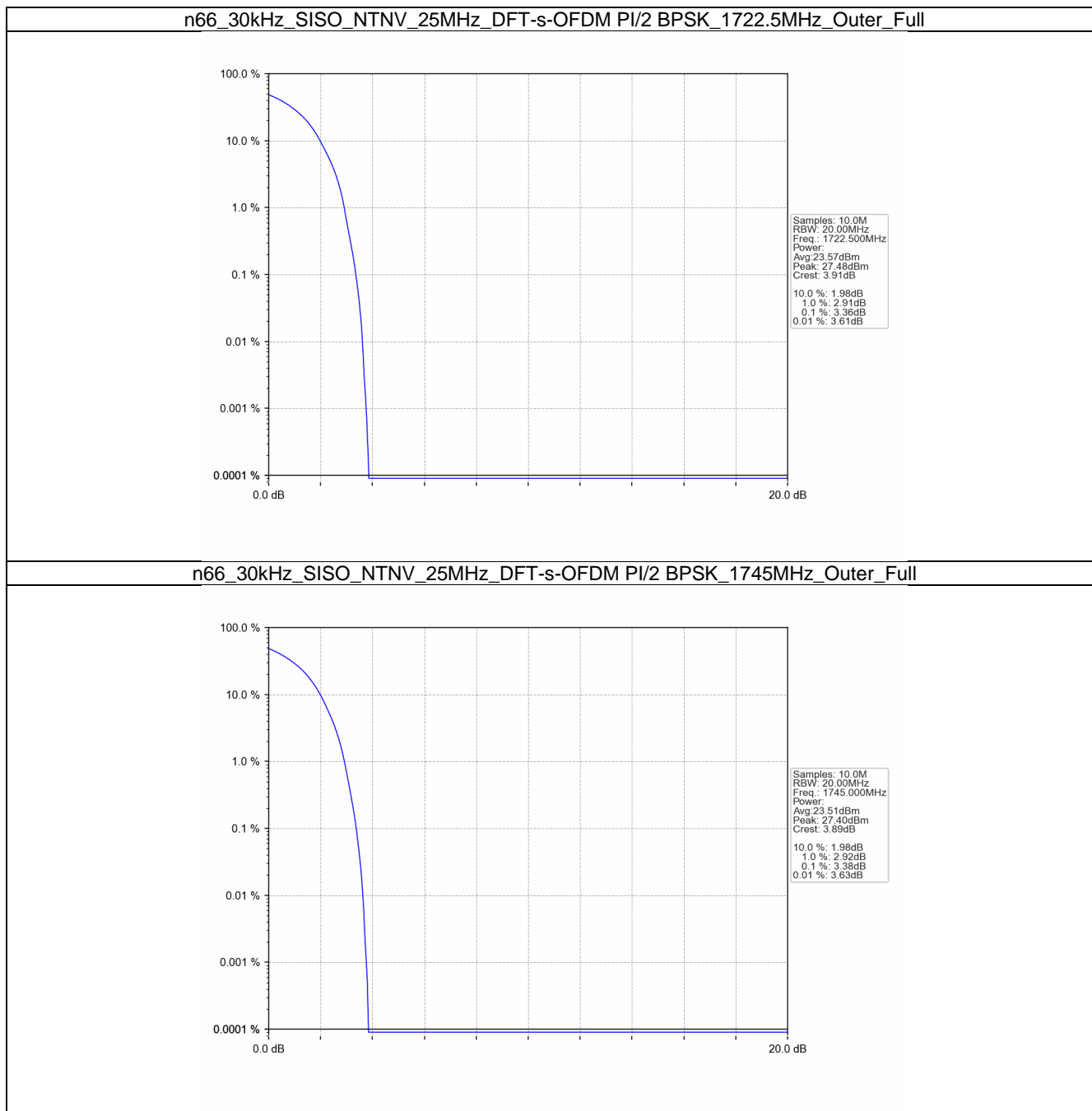


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5.12.2 Test Graph



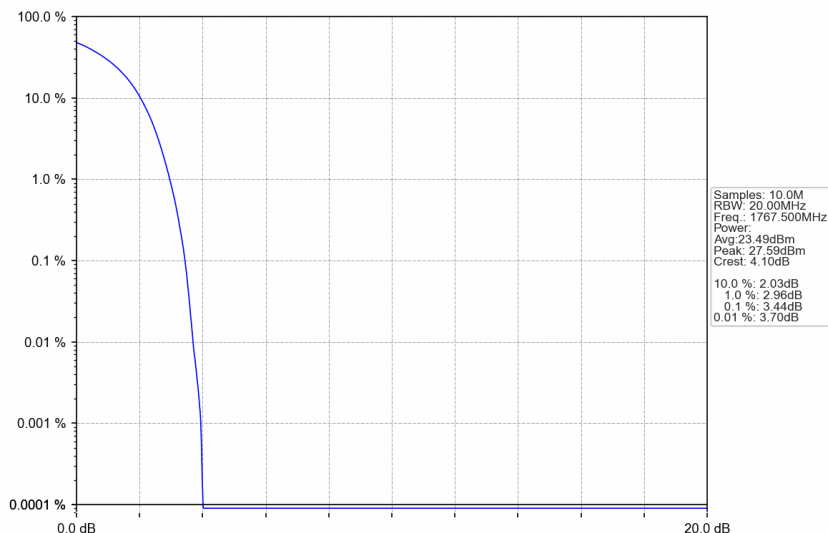
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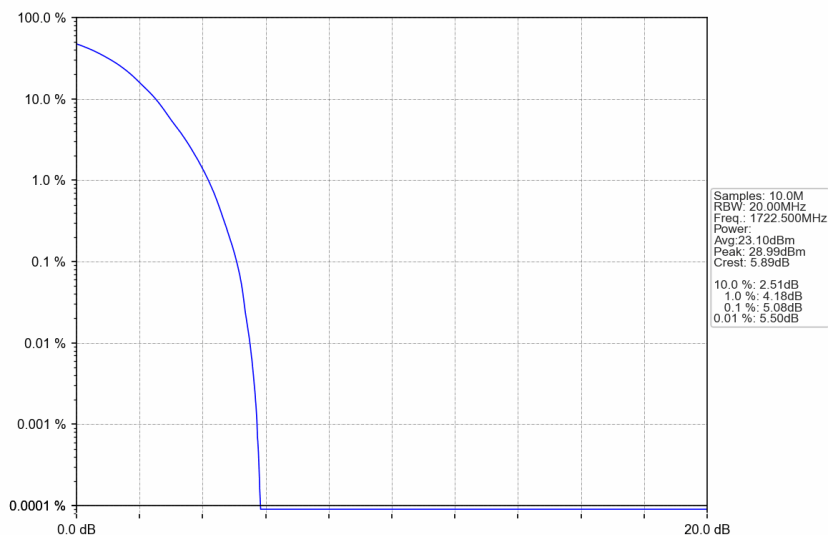
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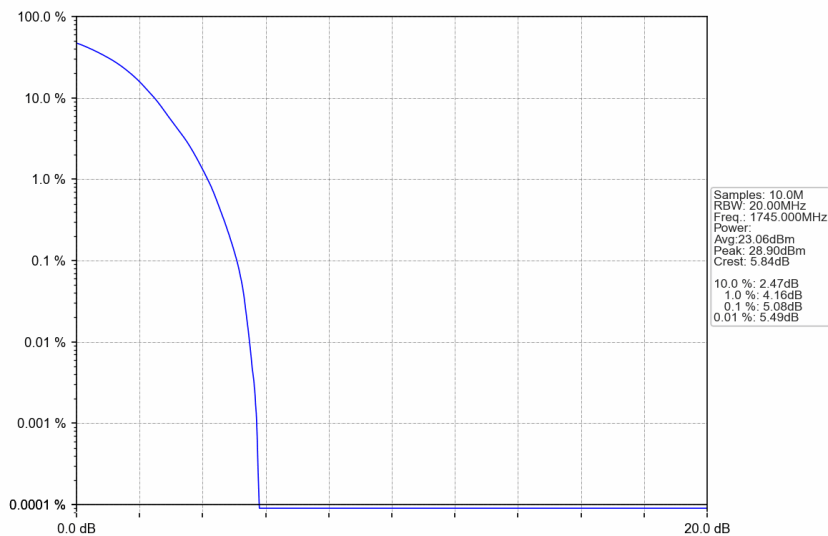
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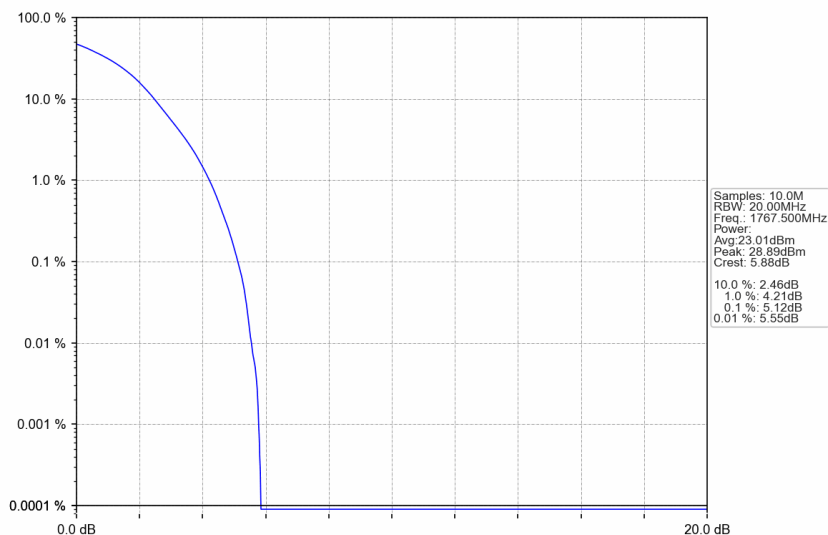
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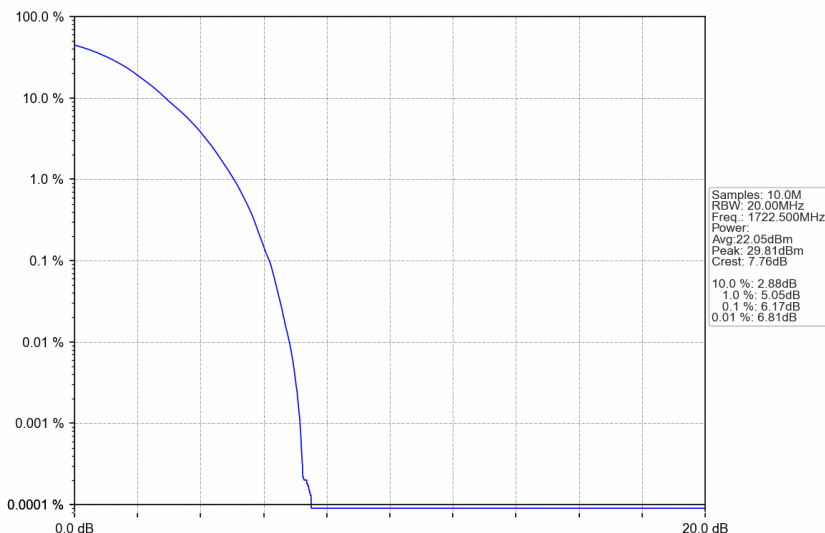


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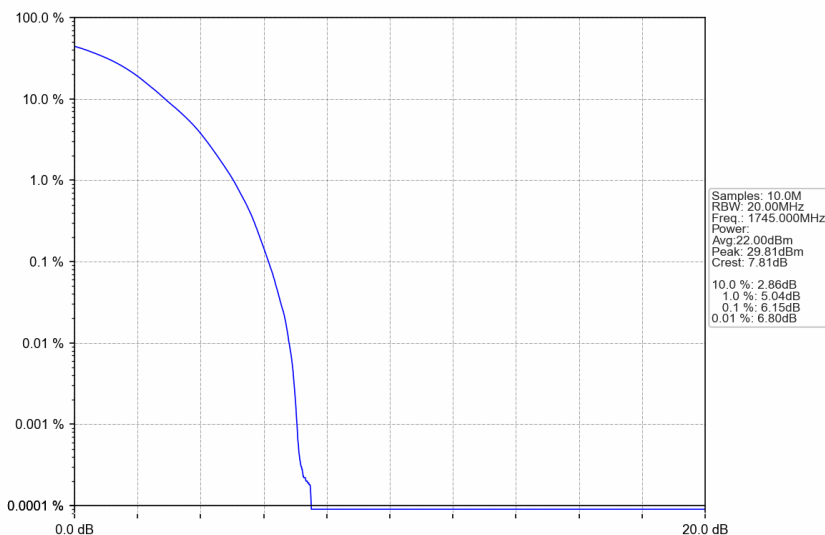
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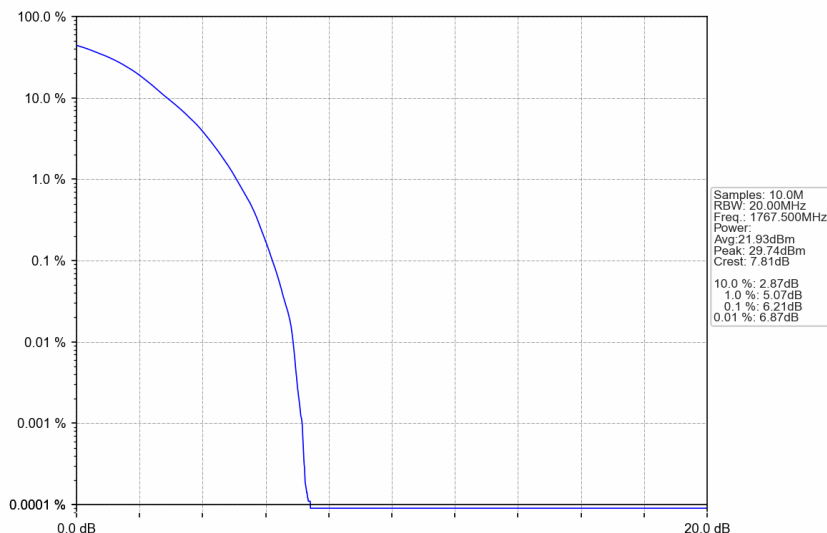
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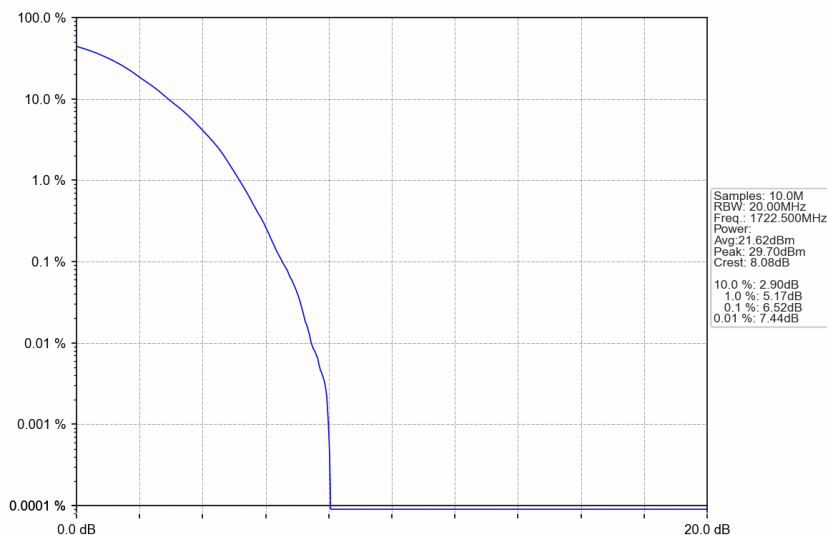
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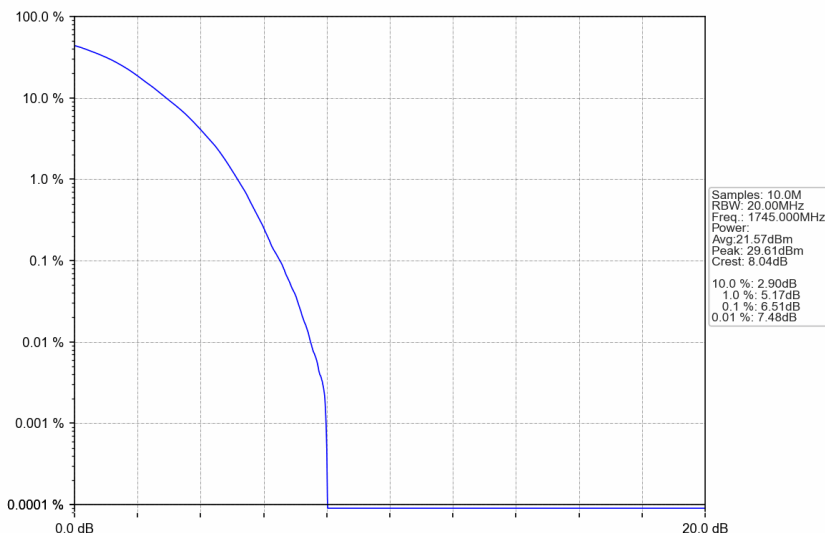
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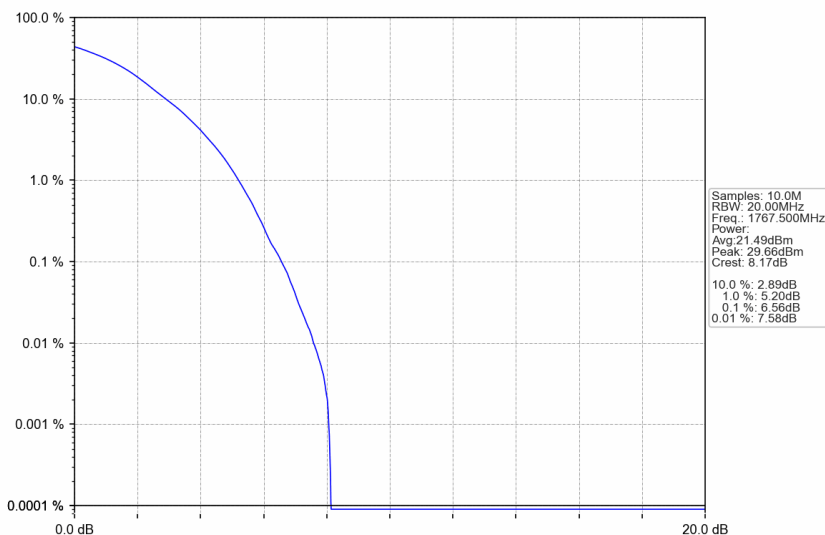
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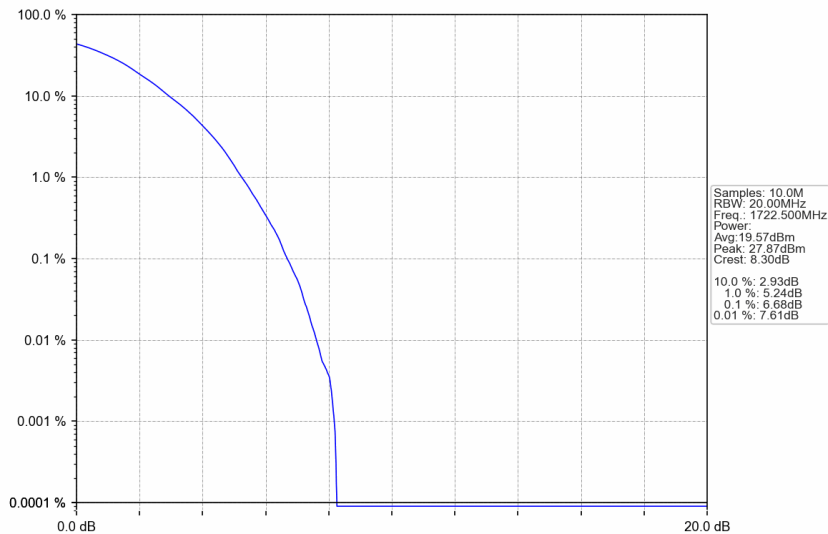
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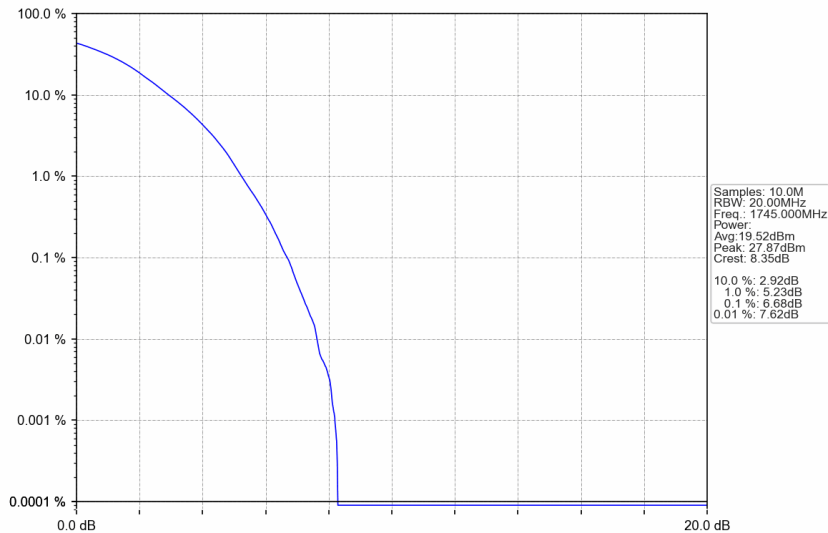
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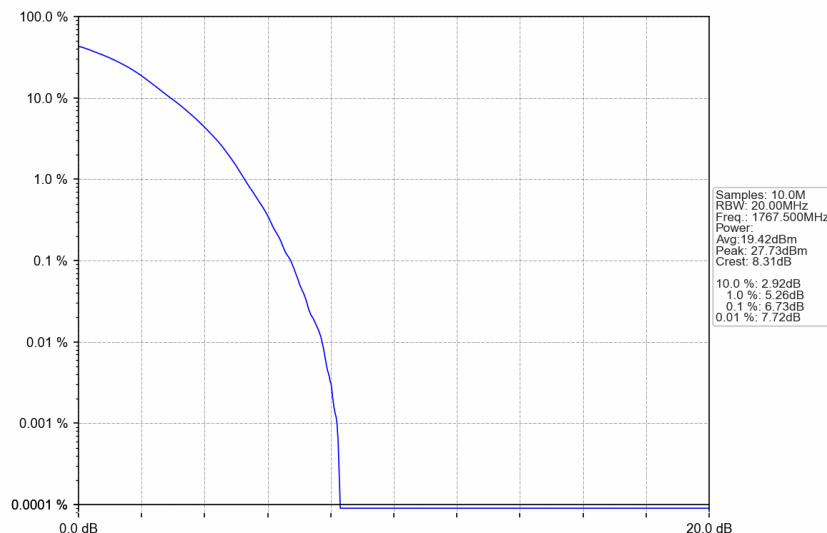


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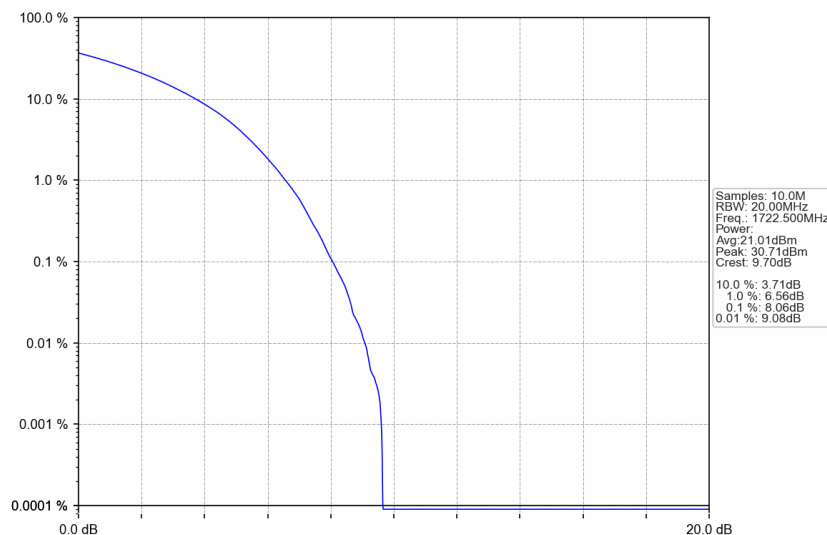
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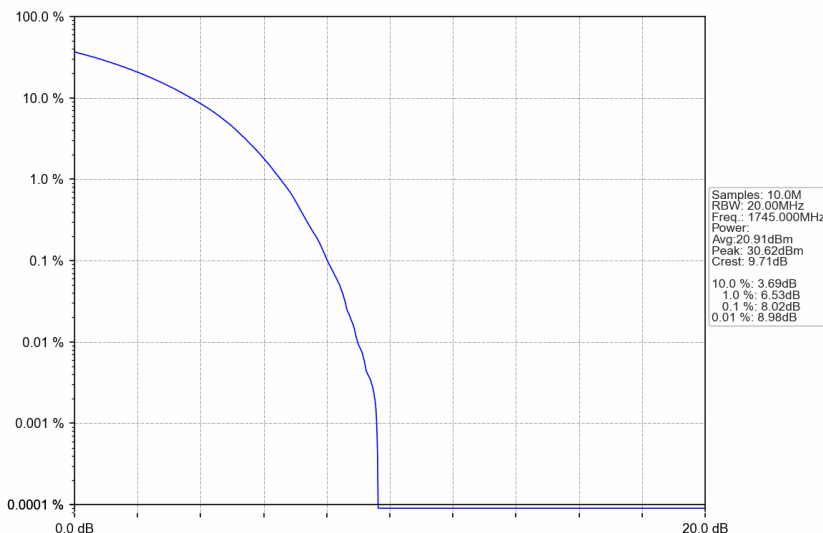
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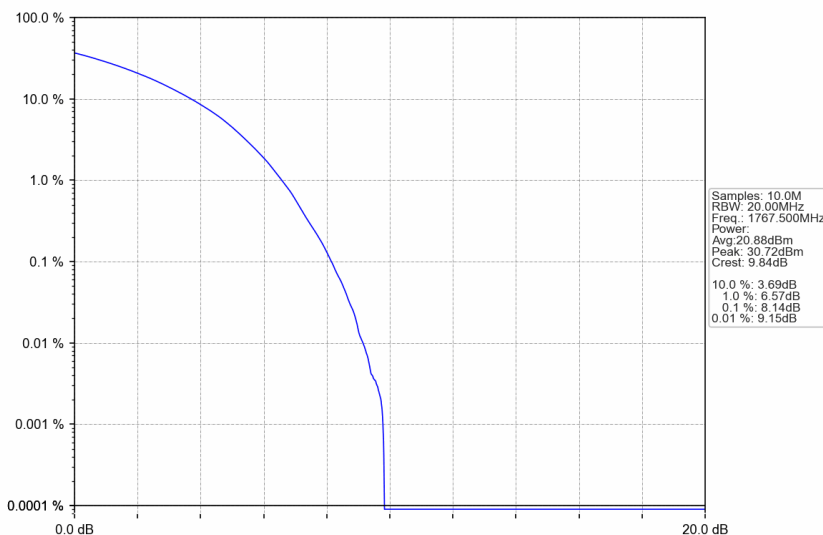
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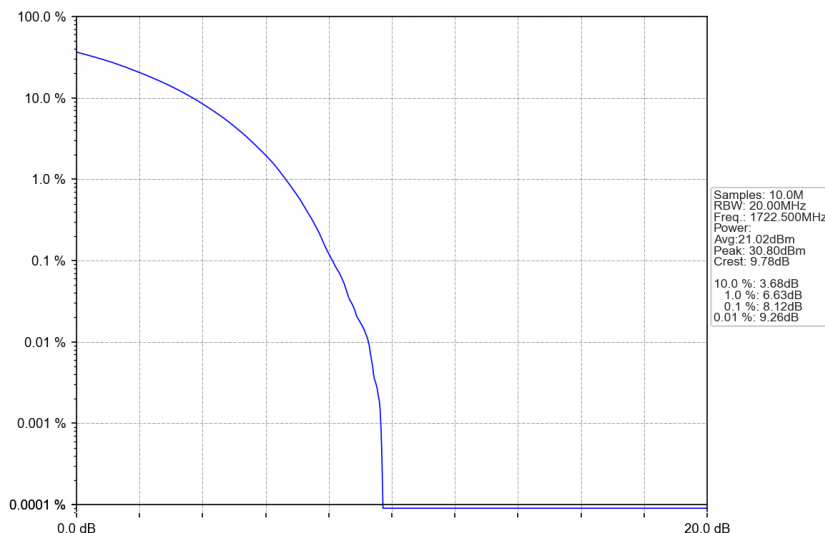
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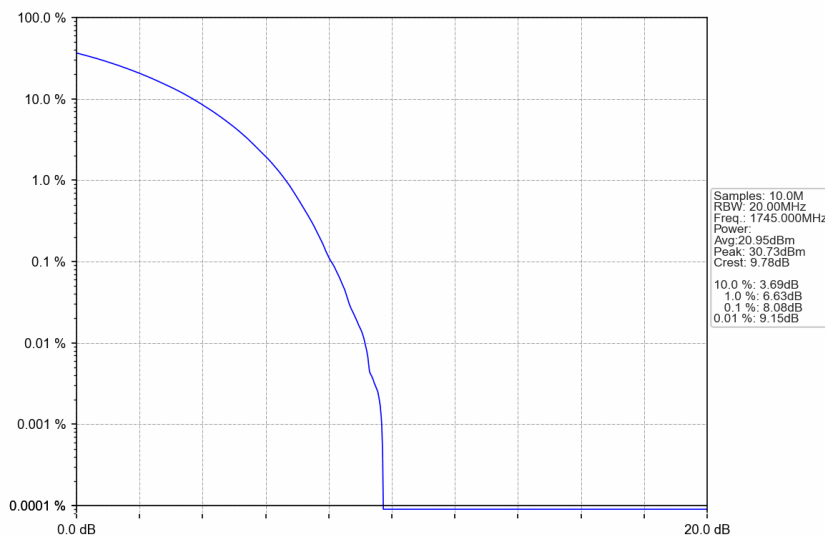
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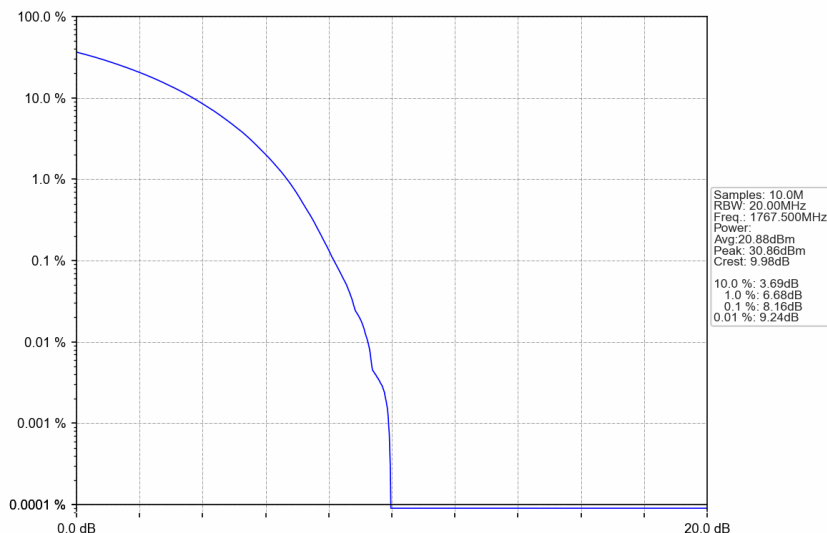
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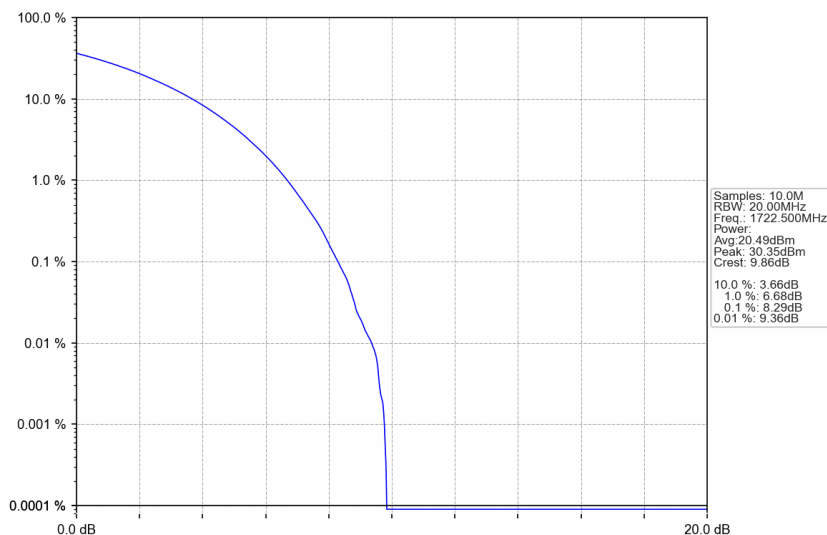
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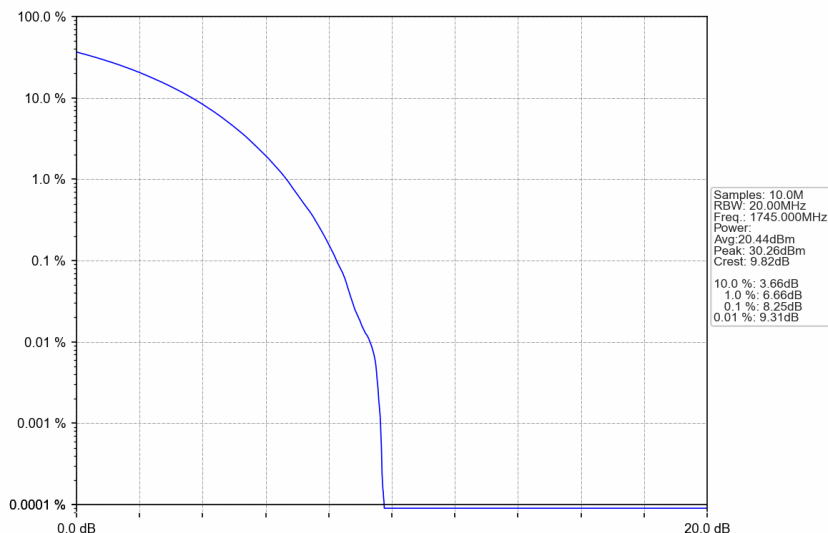


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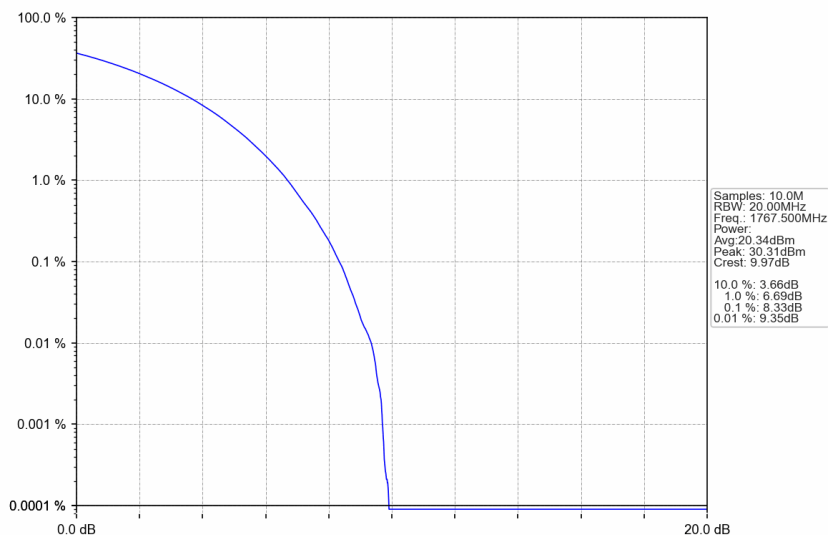
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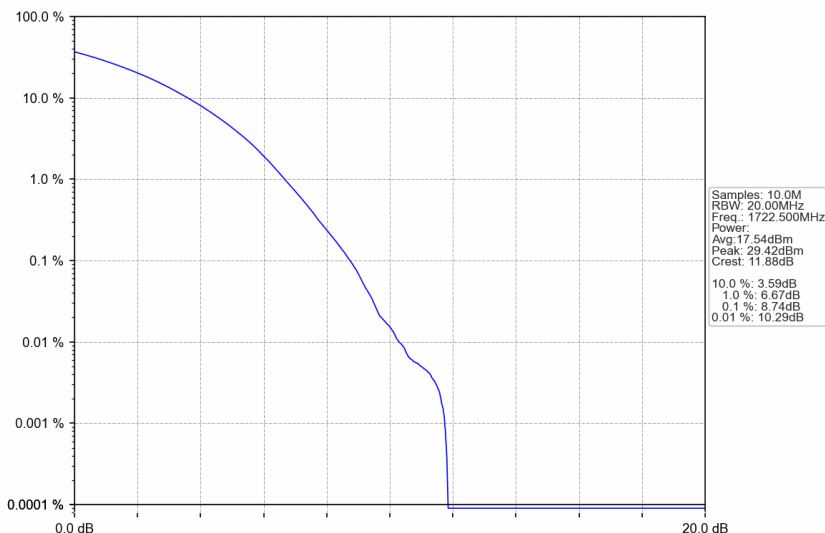
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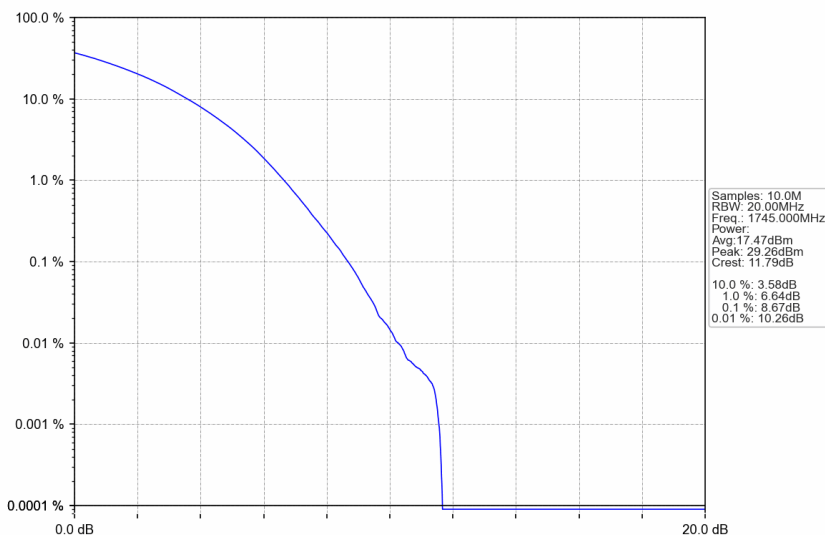
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n66_30kHz_SISO_NTNV_25MHz_CP-OFDM 256 QAM_1722.5MHz_Outer_Full



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Wireless Laboratory

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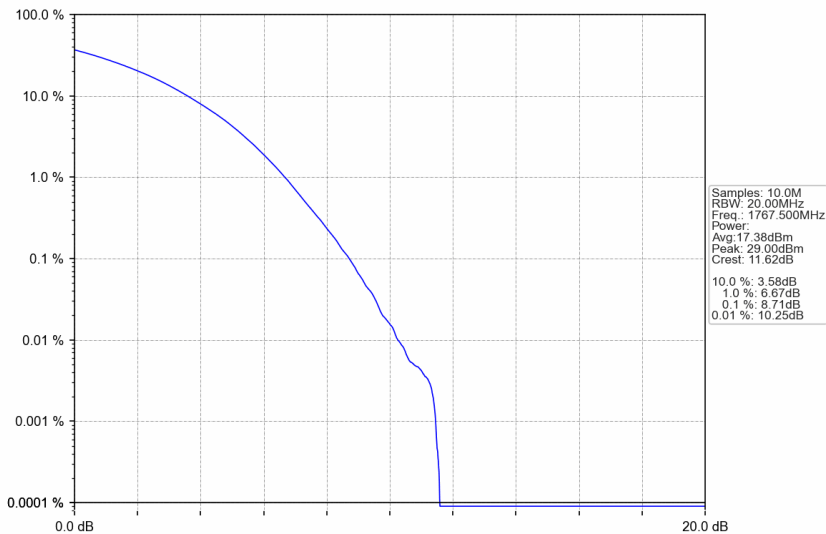


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Rev.: 01

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n66_30kHz_SISO_NTNV_25MHz_CP-OFDM 256 QAM_1767.5MHz_Outer_Full



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5.13 30k_SISO_30MHz_NTNV

5.13.1 Test Result

5G NR n66 SCS=30kHz SISO 30MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	1725	Outer_Full	3.70	/	/	<=13	Pass
	1745	Outer_Full	3.67	/	/	<=13	Pass
	1765	Outer_Full	3.76	/	/	<=13	Pass
DFT-s-OFDM QPSK	1725	Outer_Full	5.12	/	/	<=13	Pass
	1745	Outer_Full	5.13	/	/	<=13	Pass
	1765	Outer_Full	5.19	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1725	Outer_Full	6.44	/	/	<=13	Pass
	1745	Outer_Full	6.40	/	/	<=13	Pass
	1765	Outer_Full	6.46	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1725	Outer_Full	6.57	/	/	<=13	Pass
	1745	Outer_Full	6.55	/	/	<=13	Pass
	1765	Outer_Full	6.58	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1725	Outer_Full	6.84	/	/	<=13	Pass
	1745	Outer_Full	6.82	/	/	<=13	Pass
	1765	Outer_Full	6.87	/	/	<=13	Pass
CP-OFDM QPSK	1725	Outer_Full	8.16	/	/	<=13	Pass
	1745	Outer_Full	8.14	/	/	<=13	Pass
	1765	Outer_Full	8.22	/	/	<=13	Pass
CP-OFDM 16 QAM	1725	Outer_Full	8.14	/	/	<=13	Pass
	1745	Outer_Full	8.11	/	/	<=13	Pass
	1765	Outer_Full	8.14	/	/	<=13	Pass
CP-OFDM 64 QAM	1725	Outer_Full	8.28	/	/	<=13	Pass
	1745	Outer_Full	8.24	/	/	<=13	Pass
	1765	Outer_Full	8.29	/	/	<=13	Pass
CP-OFDM 256 QAM	1725	Outer_Full	8.55	/	/	<=13	Pass
	1745	Outer_Full	8.54	/	/	<=13	Pass
	1765	Outer_Full	8.54	/	/	<=13	Pass

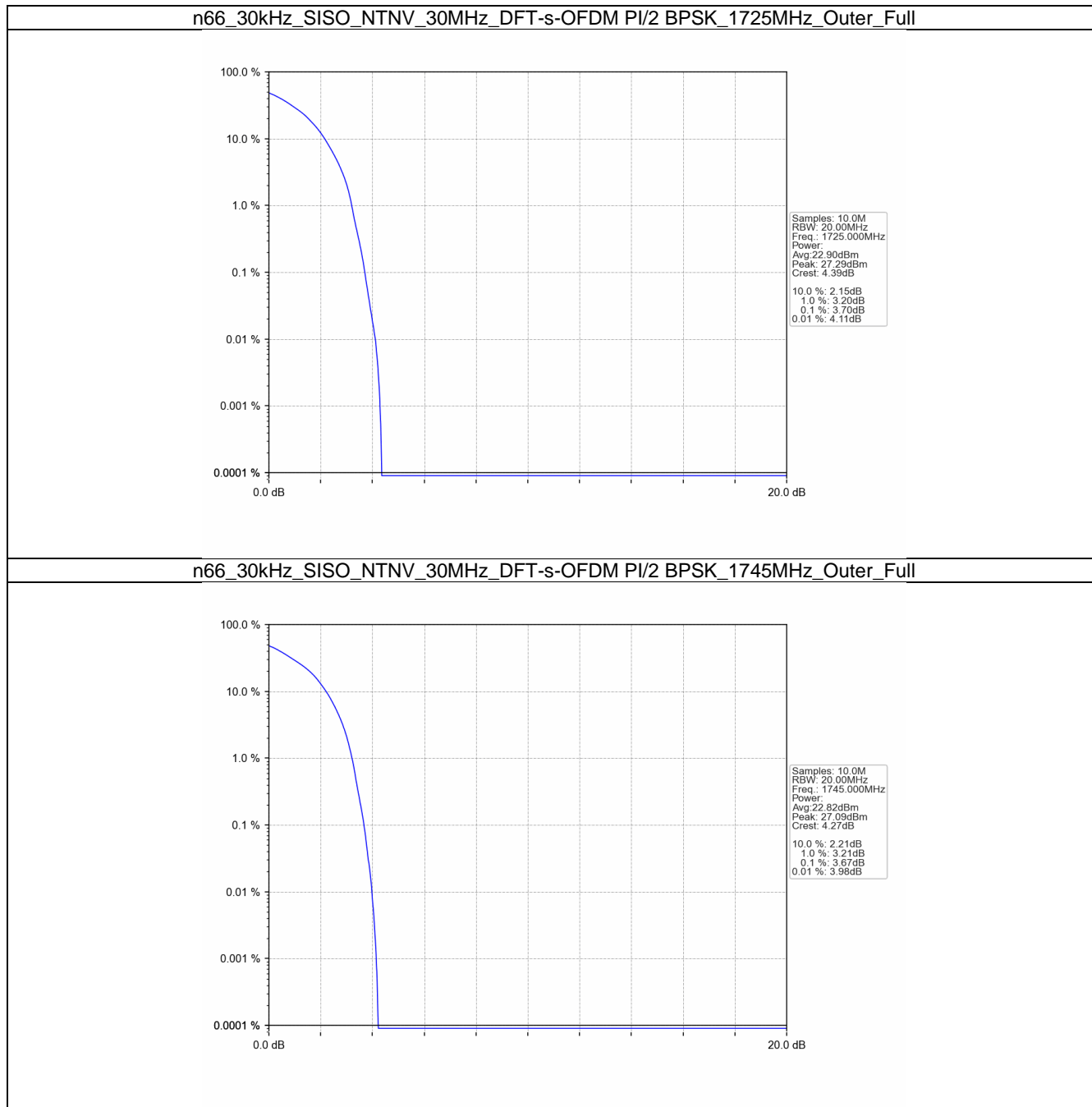


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5.13.2 Test Graph

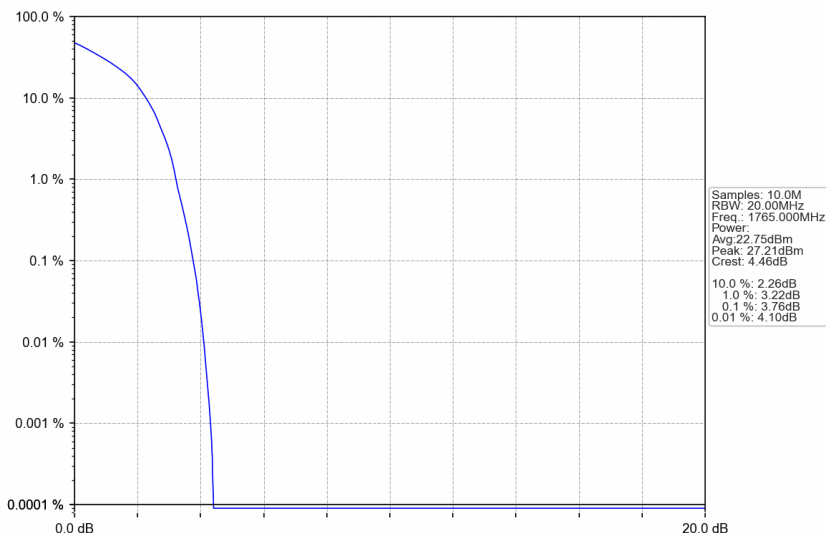


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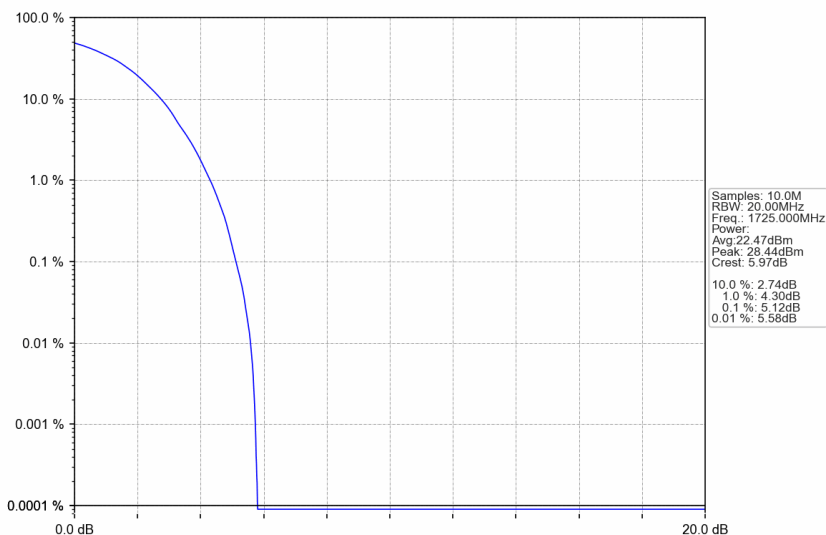
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n66_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_1765MHz_Outer_Full



n66_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_1725MHz_Outer_Full

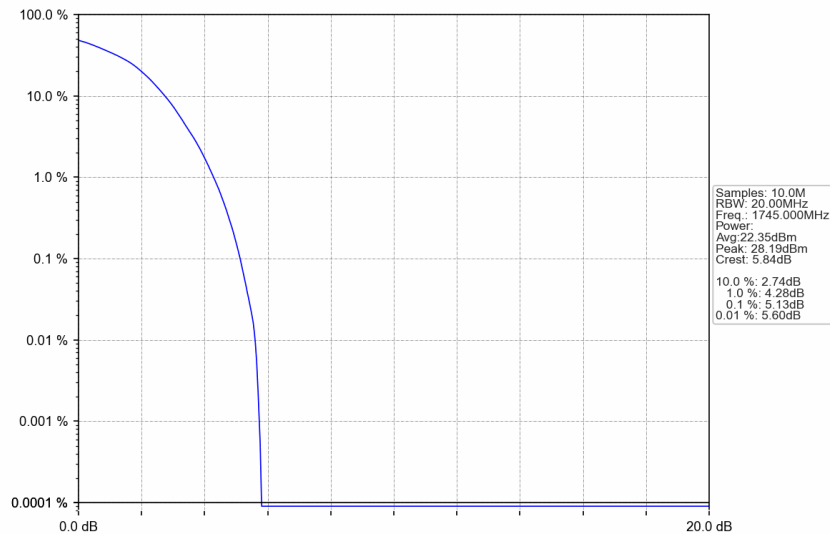


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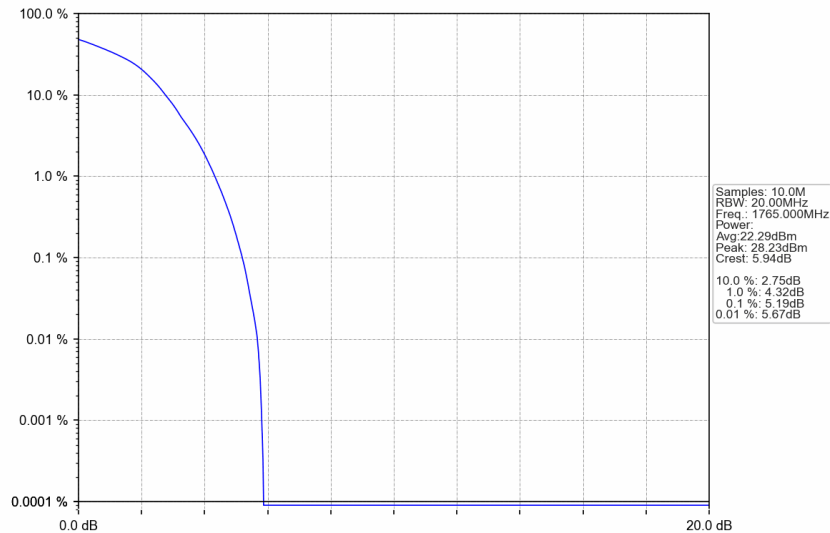
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n66_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_1765MHz_Outer_Full



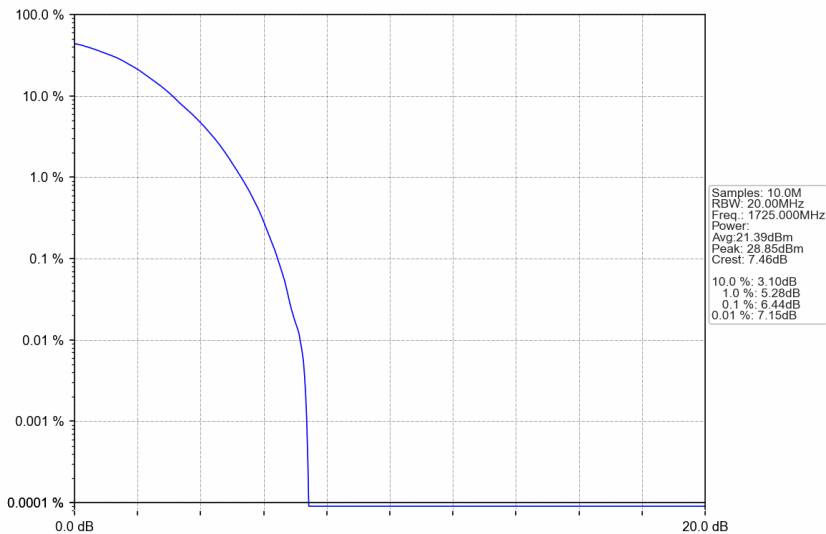
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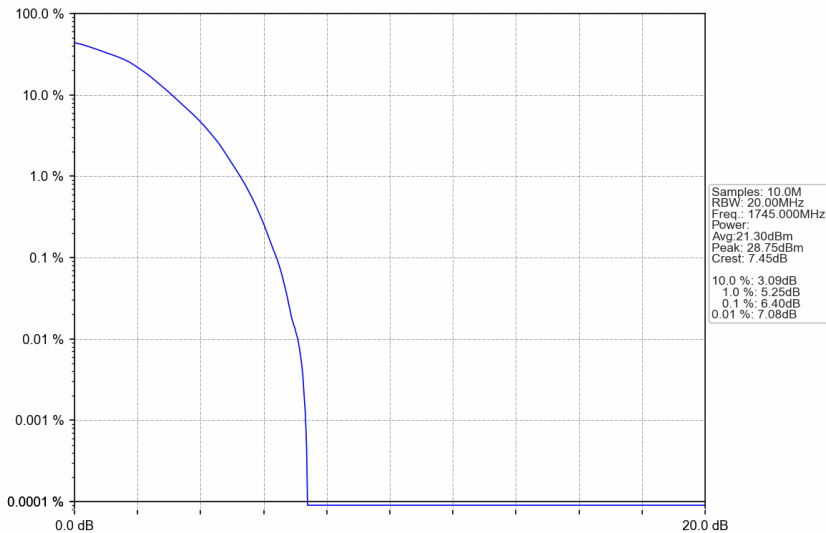
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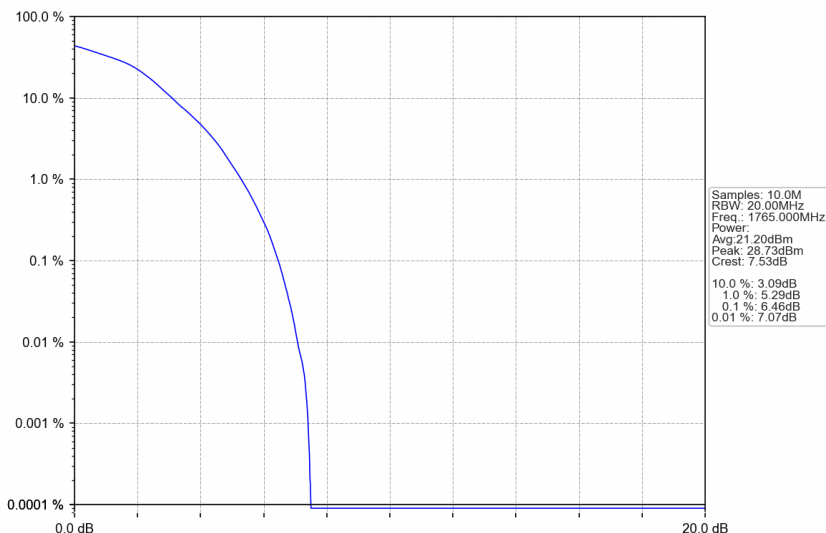


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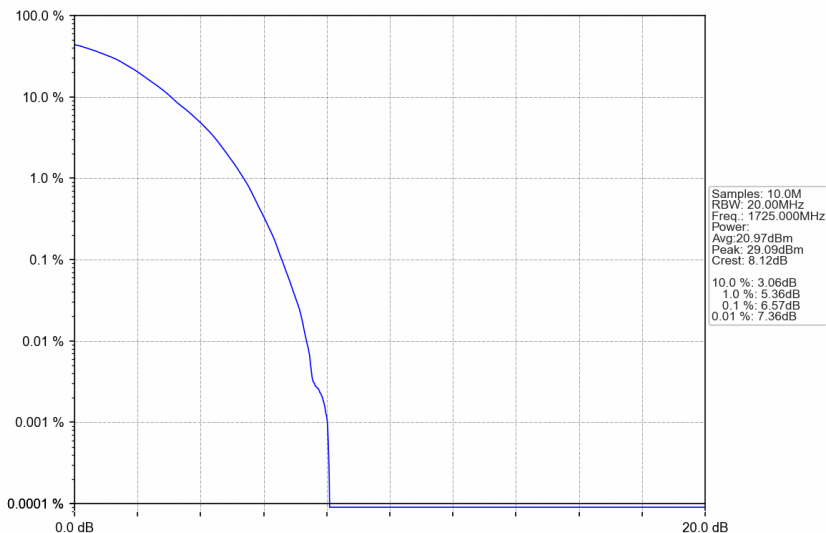
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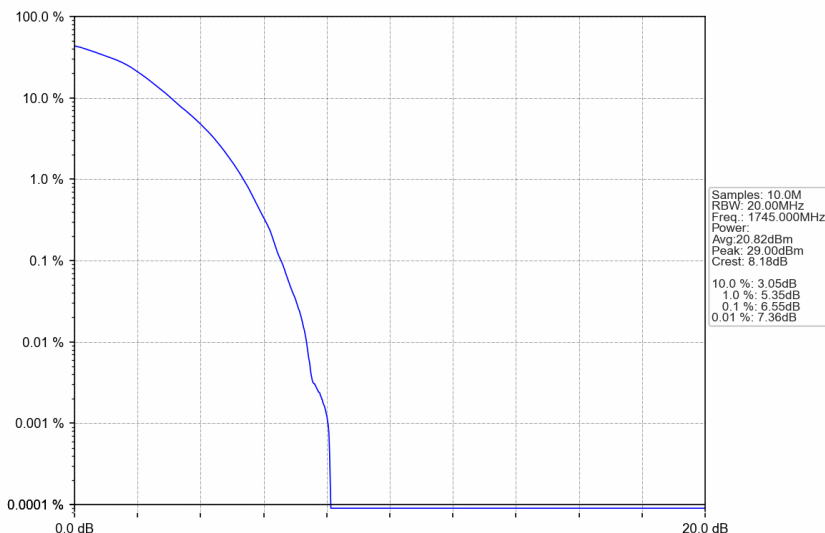


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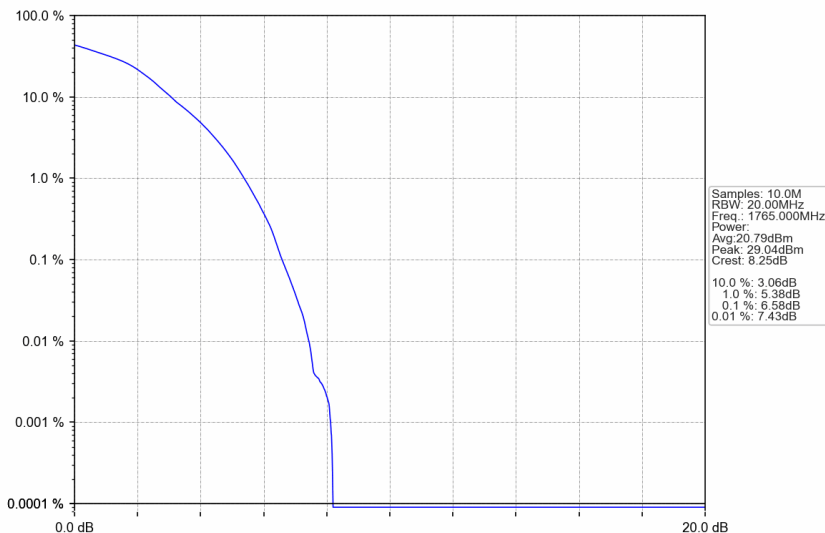
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