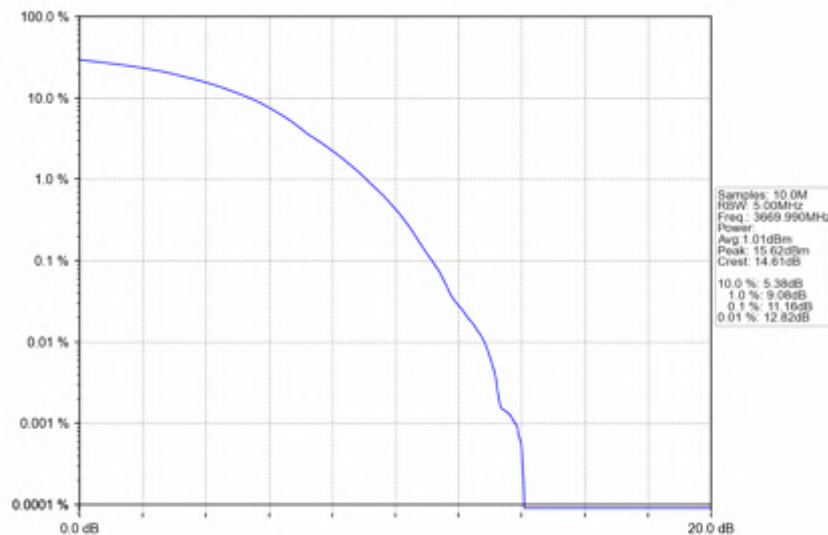
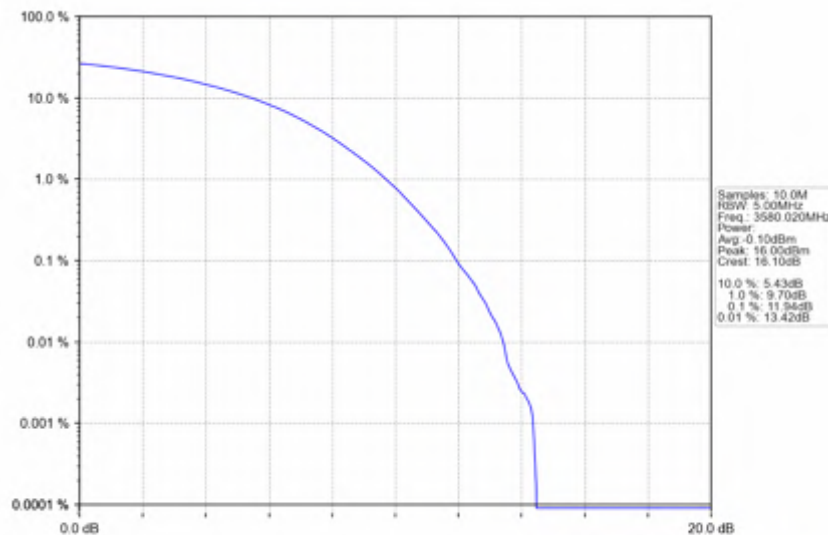


n78d_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM_256_QAM_3669.99MHz_Outer_Full



n78d_30kHz_SISO_NTNV_60MHz_CP-OFDM_QPSK_3580.02MHz_Outer_Full

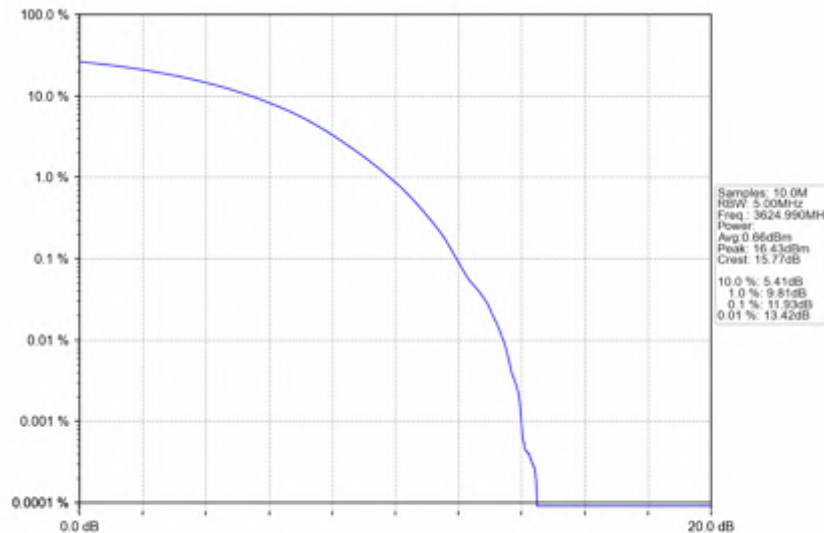


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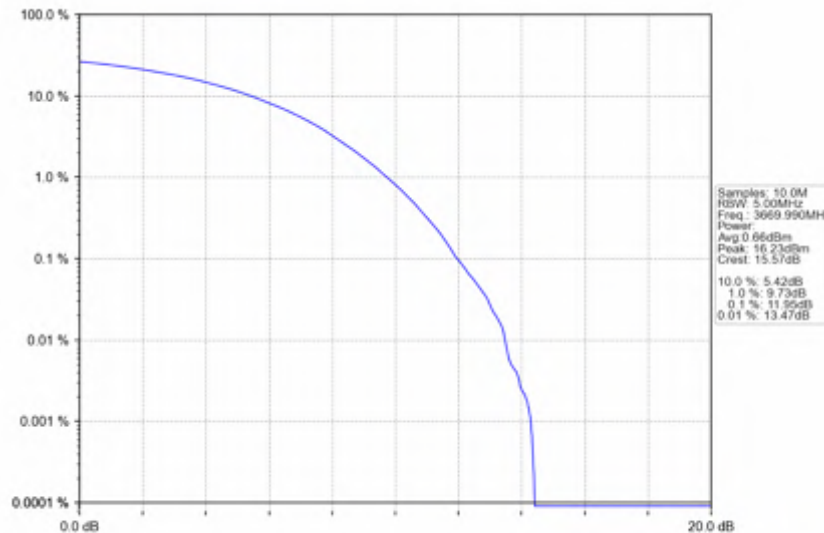
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n78d_30kHz_SISO_NTNV_60MHz_CP-OFDM_QPSK_3624.99MHz_Outer_Full



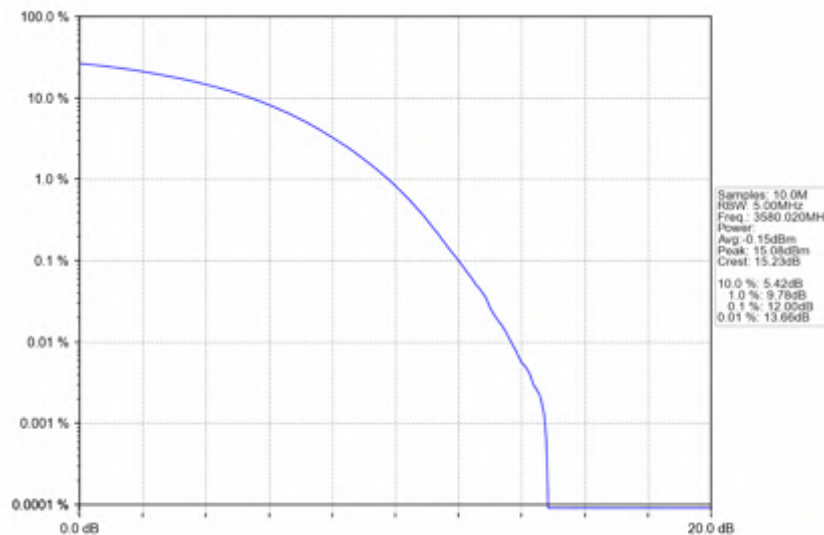
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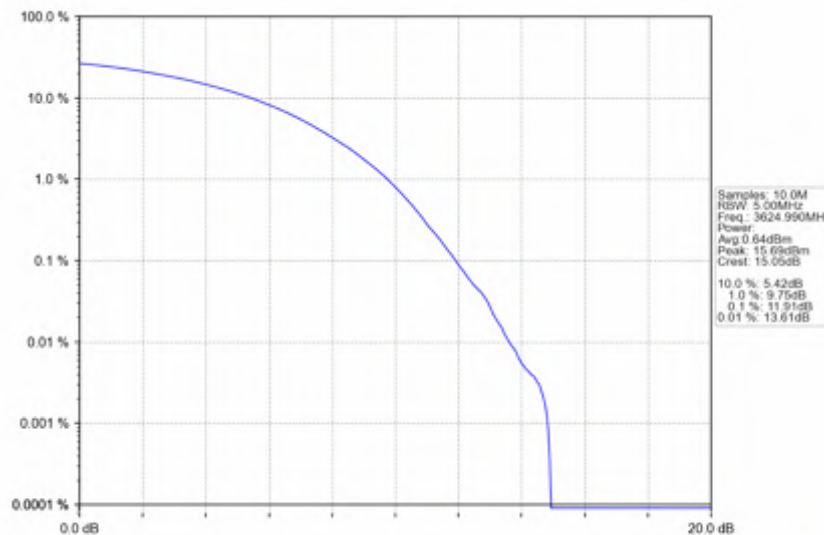
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n78d_30kHz_SISO_NTNV_60MHz_CP-OFDM_16_QAM_3580.02MHz_Outer_Full



n78d_30kHz_SISO_NTNV_60MHz_CP-OFDM_16_QAM_3624.99MHz_Outer_Full



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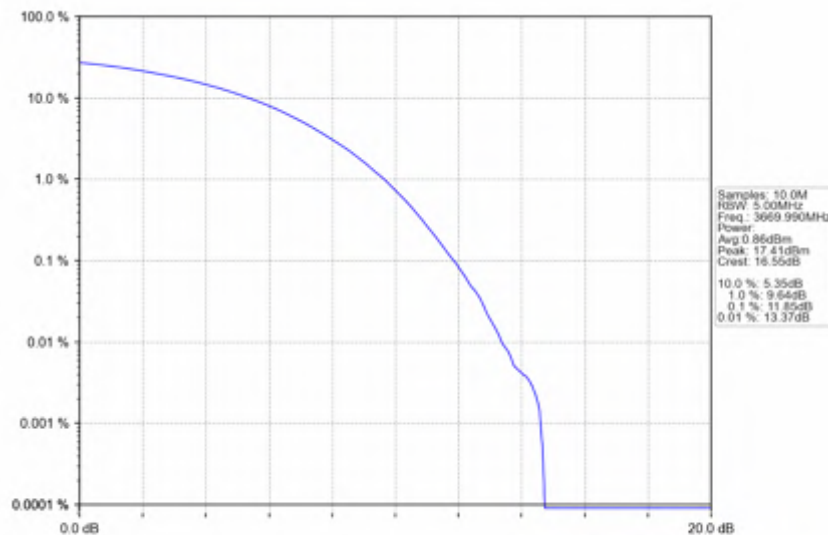
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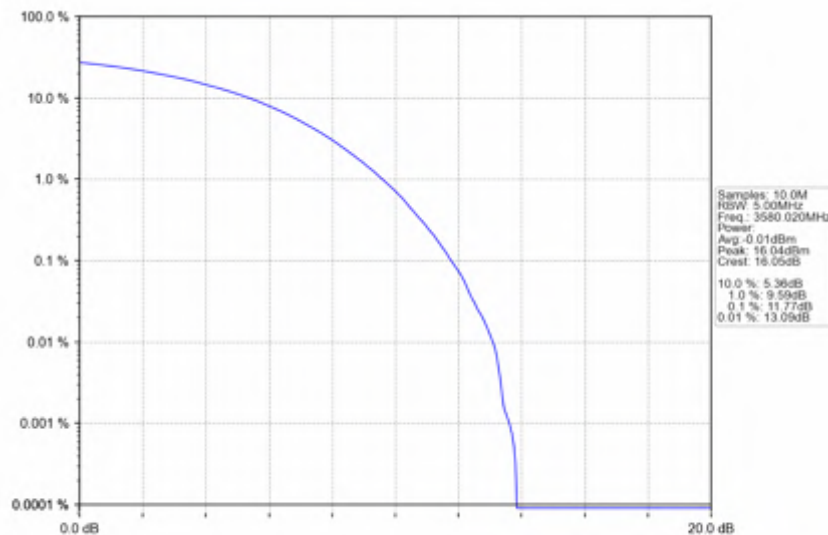
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n78d_30kHz_SISO_NTNV_60MHz_CP-OFDM 16 QAM_3669.99MHz_Outer_Full



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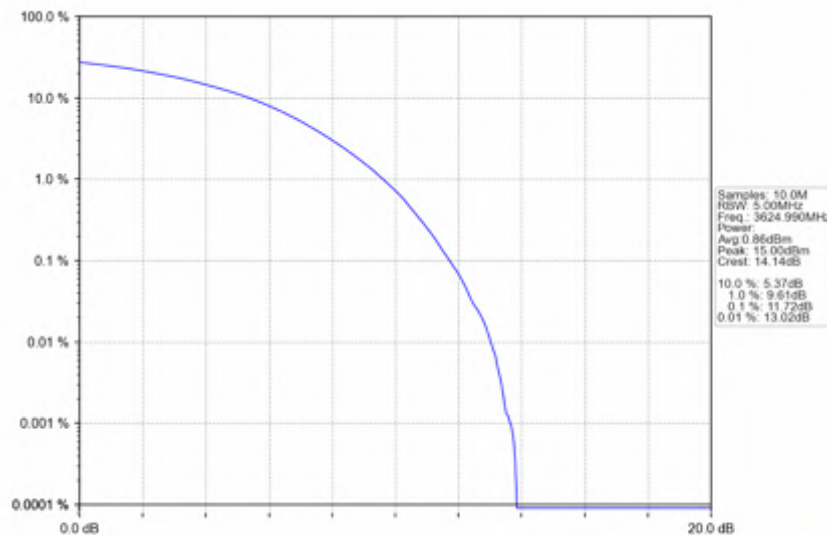
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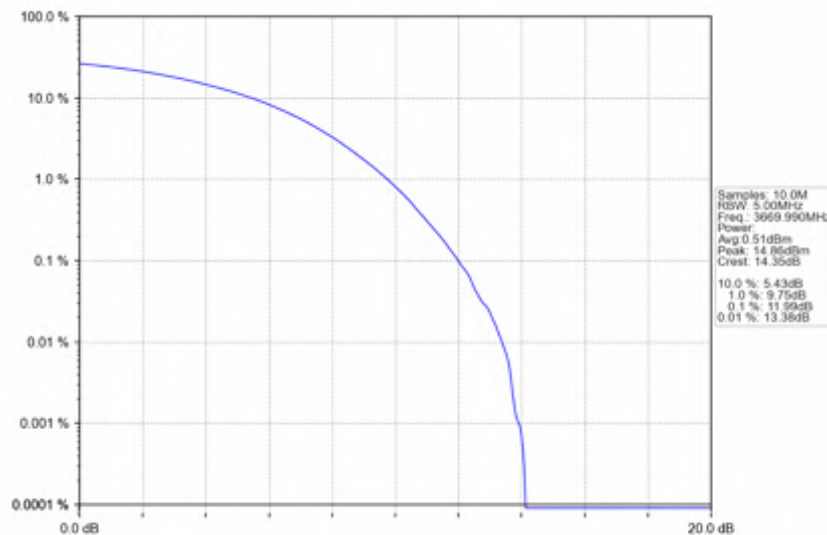
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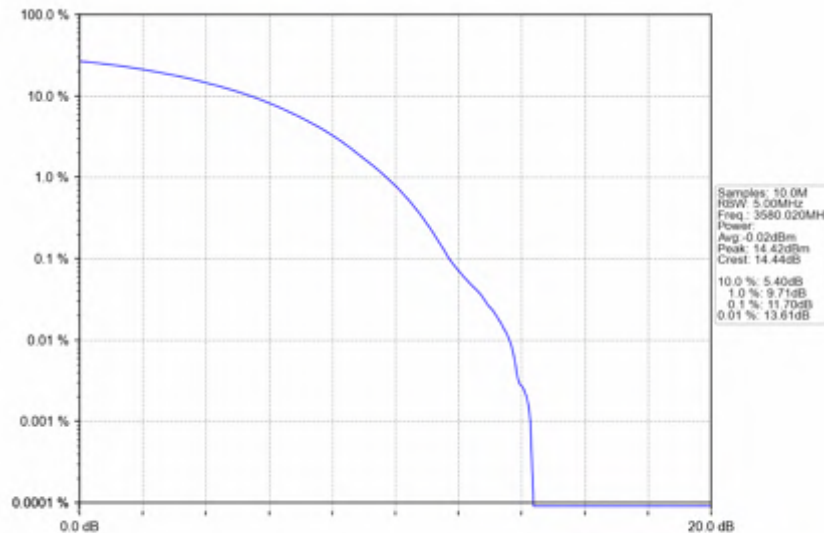
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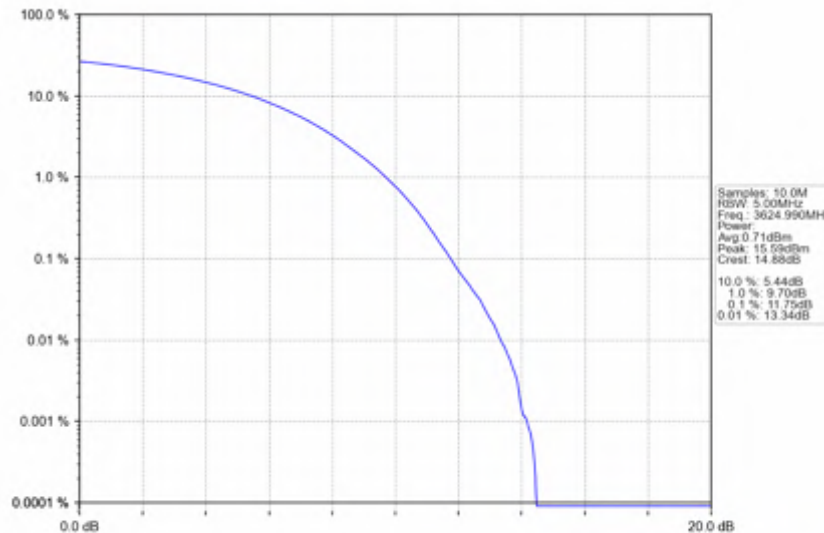
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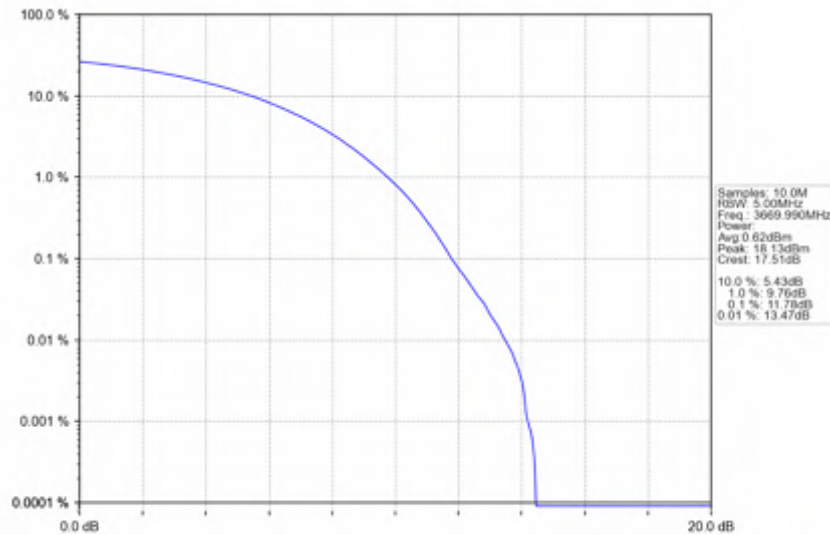


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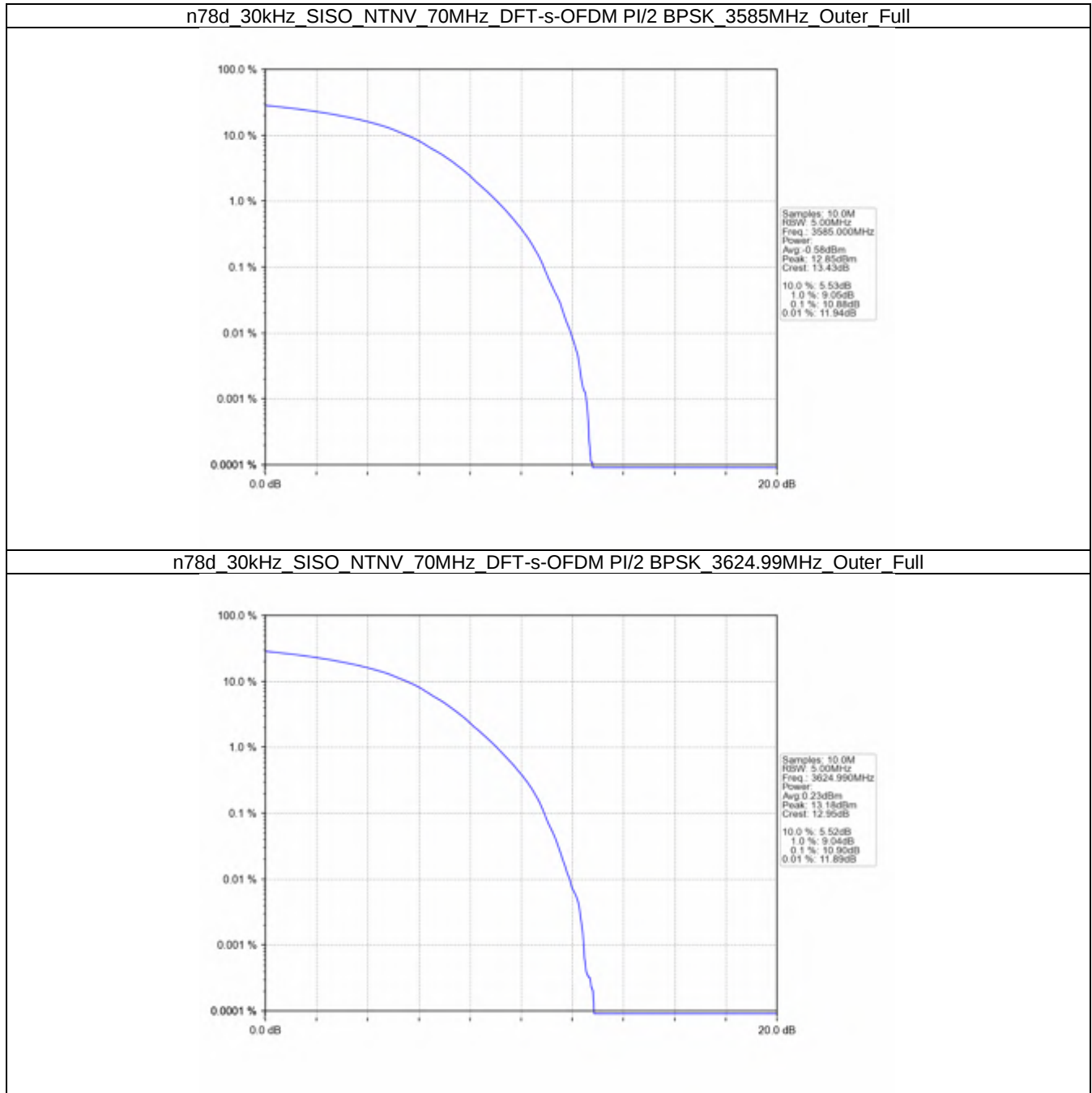
8.16 30k_SISO_70MHz_NTNV

8.16.1 Test Result

5G NR n78d SCS=30kHz SISO 70MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3585	Outer_Full	10.88	/	/	<=13	Pass
	3624.99	Outer_Full	10.90	/	/	<=13	Pass
	3664.98	Outer_Full	10.92	/	/	<=13	Pass
DFT-s-OFDM QPSK	3585	Outer_Full	11.26	/	/	<=13	Pass
	3624.99	Outer_Full	11.21	/	/	<=13	Pass
	3664.98	Outer_Full	11.24	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3585	Outer_Full	11.39	/	/	<=13	Pass
	3624.99	Outer_Full	11.21	/	/	<=13	Pass
	3664.98	Outer_Full	11.35	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3585	Outer_Full	11.37	/	/	<=13	Pass
	3624.99	Outer_Full	11.15	/	/	<=13	Pass
	3664.98	Outer_Full	11.26	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3585	Outer_Full	11.39	/	/	<=13	Pass
	3624.99	Outer_Full	11.43	/	/	<=13	Pass
	3664.98	Outer_Full	11.38	/	/	<=13	Pass
CP-OFDM QPSK	3585	Outer_Full	11.70	/	/	<=13	Pass
	3624.99	Outer_Full	11.89	/	/	<=13	Pass
	3664.98	Outer_Full	11.59	/	/	<=13	Pass
CP-OFDM 16 QAM	3585	Outer_Full	11.90	/	/	<=13	Pass
	3624.99	Outer_Full	11.91	/	/	<=13	Pass
	3664.98	Outer_Full	11.91	/	/	<=13	Pass
CP-OFDM 64 QAM	3585	Outer_Full	11.94	/	/	<=13	Pass
	3624.99	Outer_Full	11.93	/	/	<=13	Pass
	3664.98	Outer_Full	11.95	/	/	<=13	Pass
CP-OFDM 256 QAM	3585	Outer_Full	11.77	/	/	<=13	Pass
	3624.99	Outer_Full	11.89	/	/	<=13	Pass
	3664.98	Outer_Full	11.70	/	/	<=13	Pass



8.16.2 Test Graph



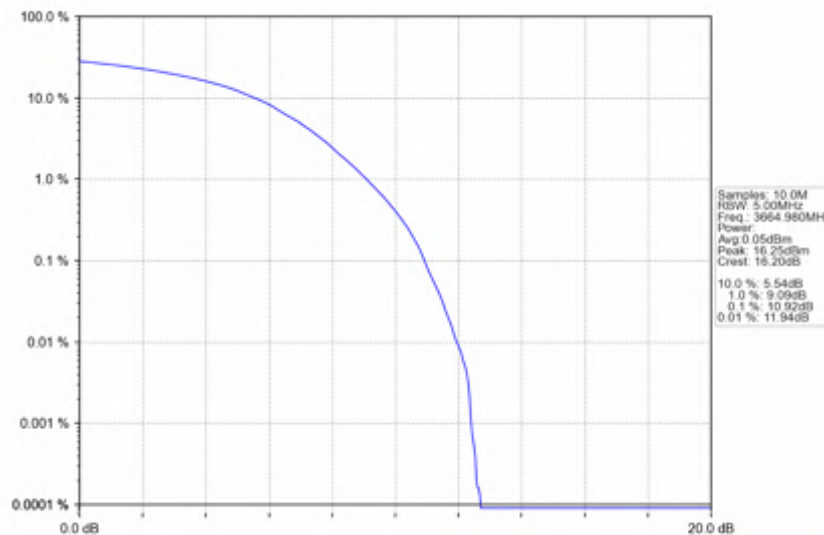
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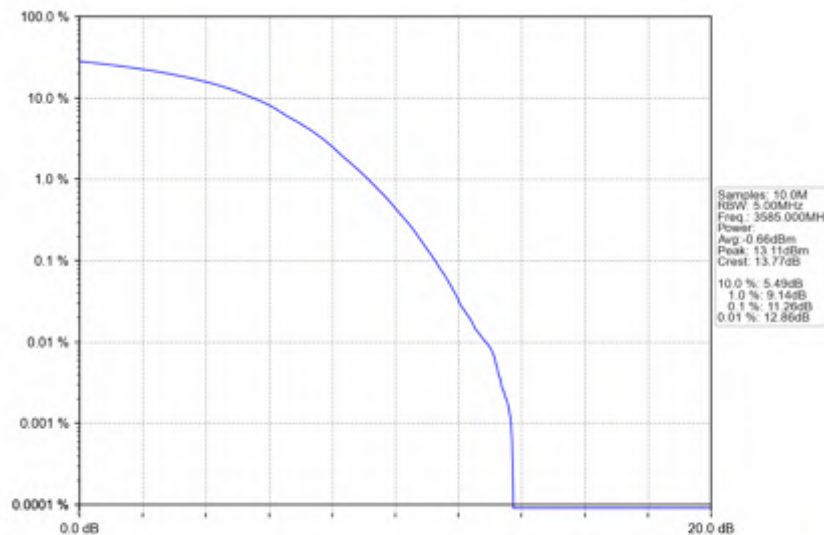
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n78d_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM_QPSK_3585MHz_Outer_Full



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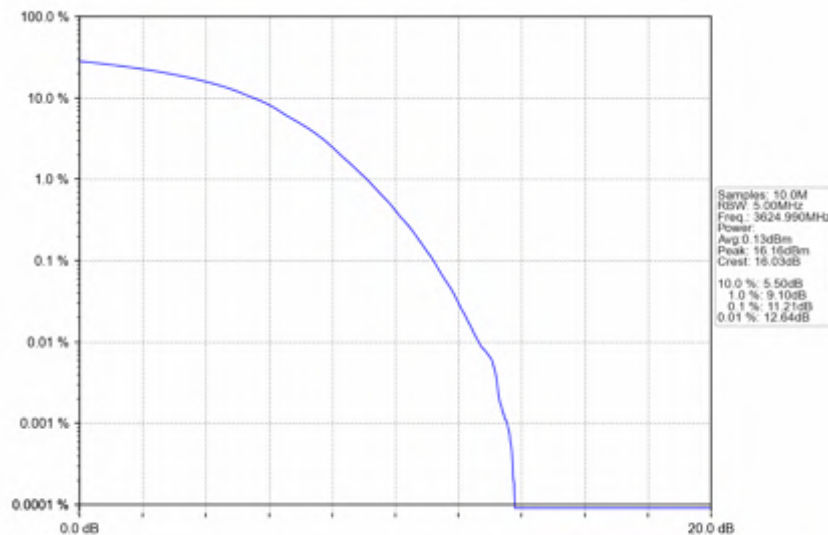
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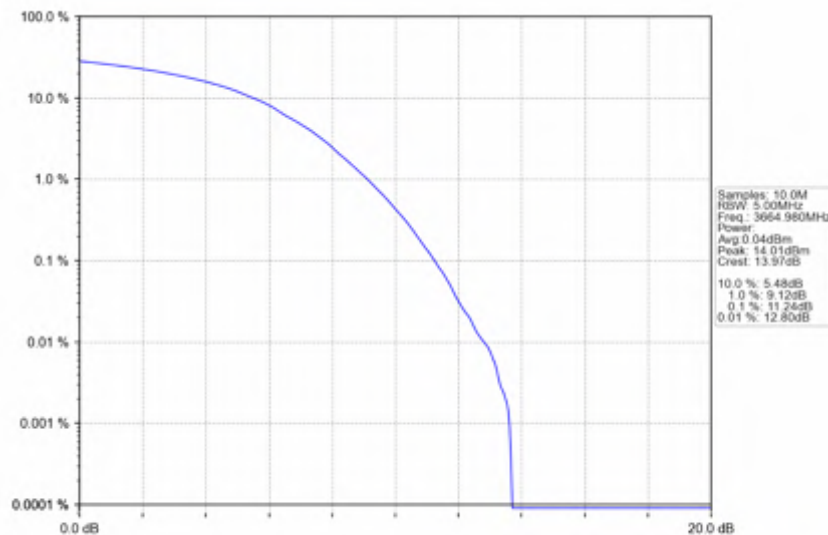
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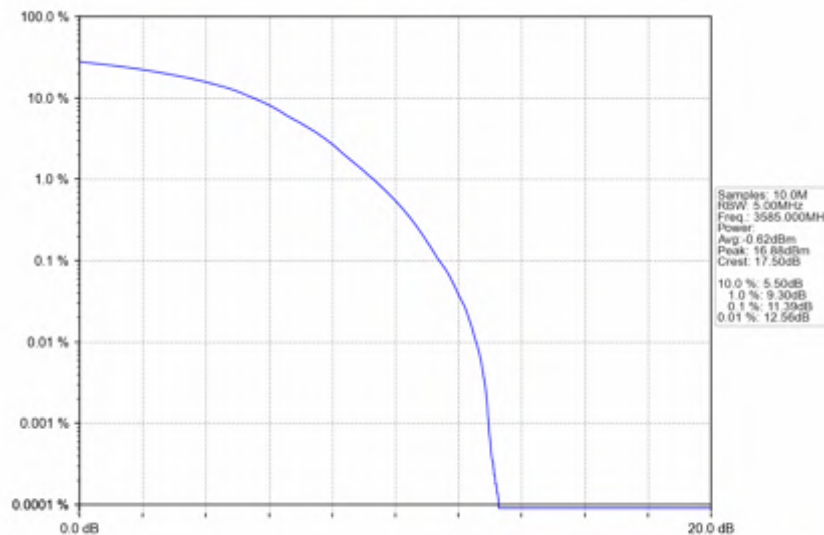
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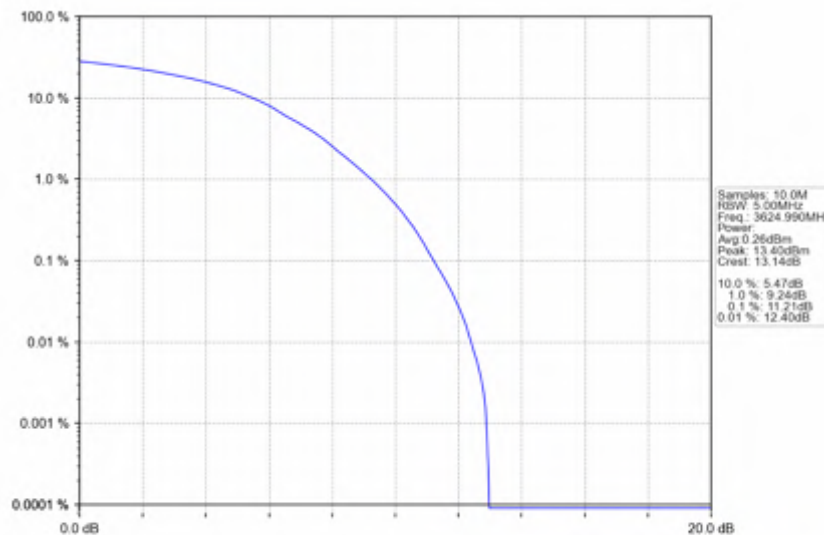
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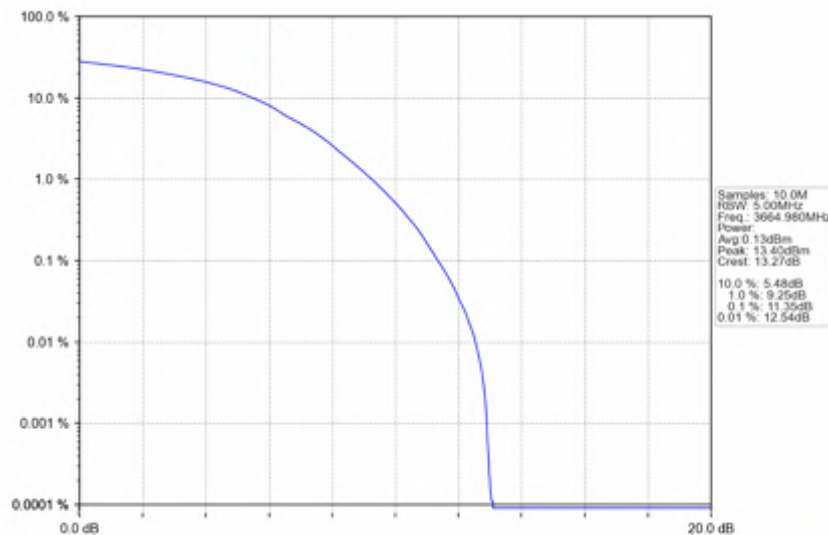
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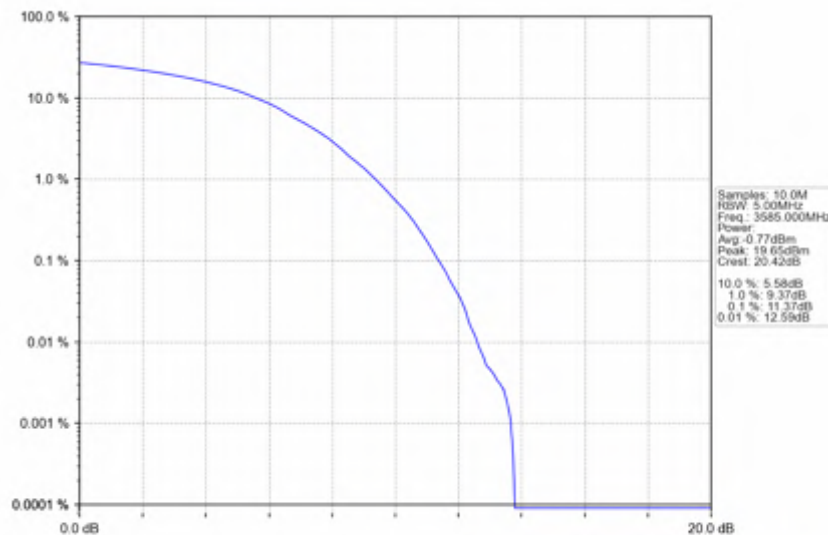
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n78d_30kHz_SISO_NTV_70MHz_DFT-s-OFDM 16 QAM_3664.98MHz_Outer_Full



n78d_30kHz_SISO_NTV_70MHz_DFT-s-OFDM 64 QAM_3585MHz_Outer_Full



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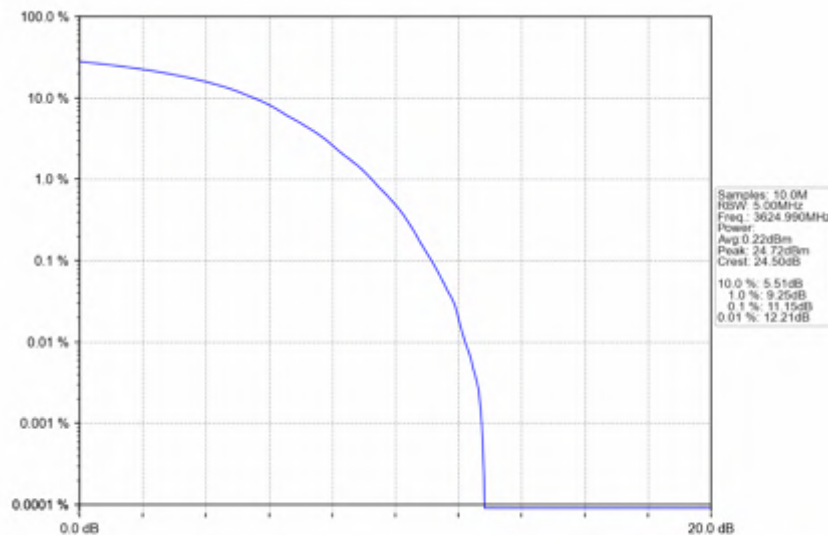
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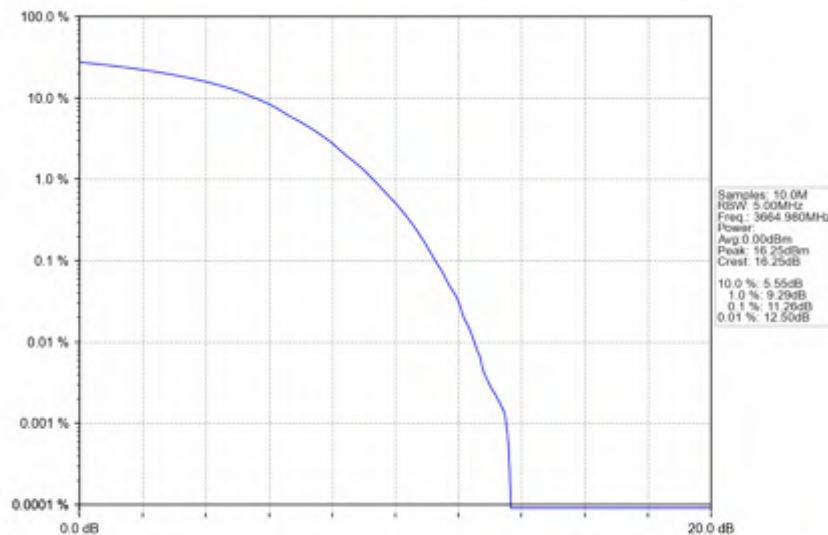
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n78d_30kHz_SISO_NTV_70MHz_DFT-s-OFDM_64_QAM_3624.99MHz_Outer_Full



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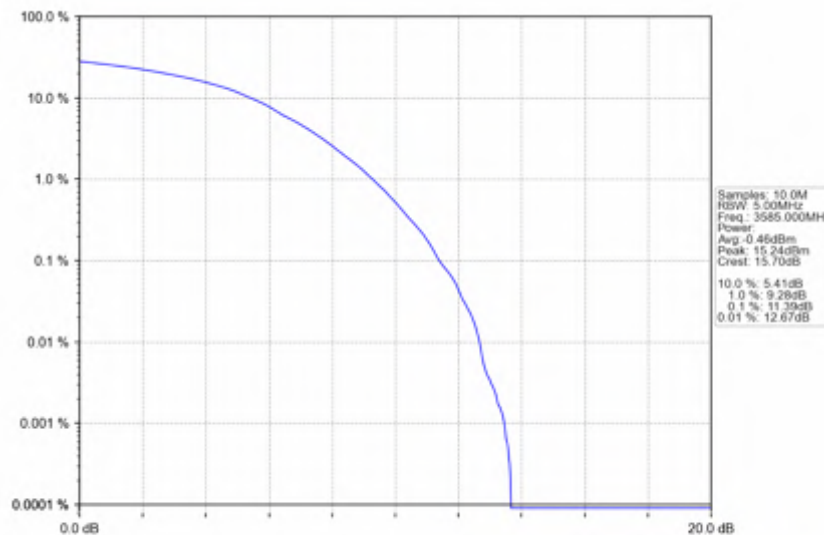
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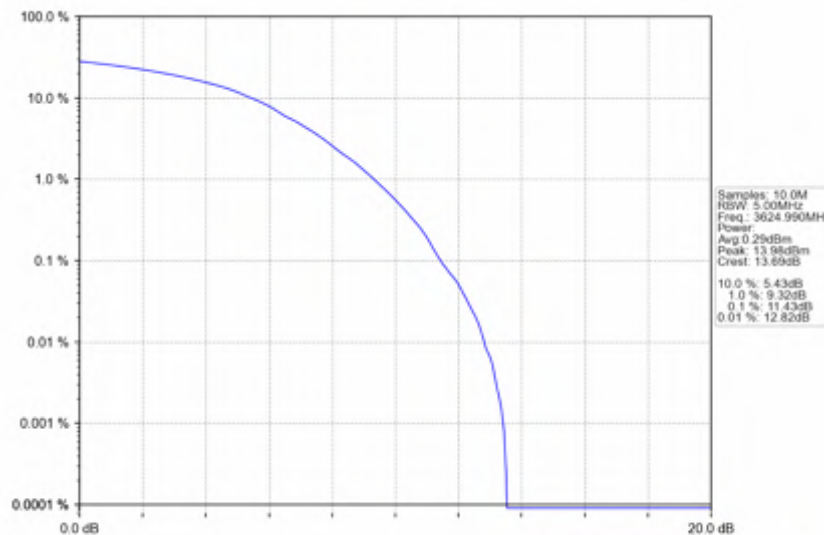
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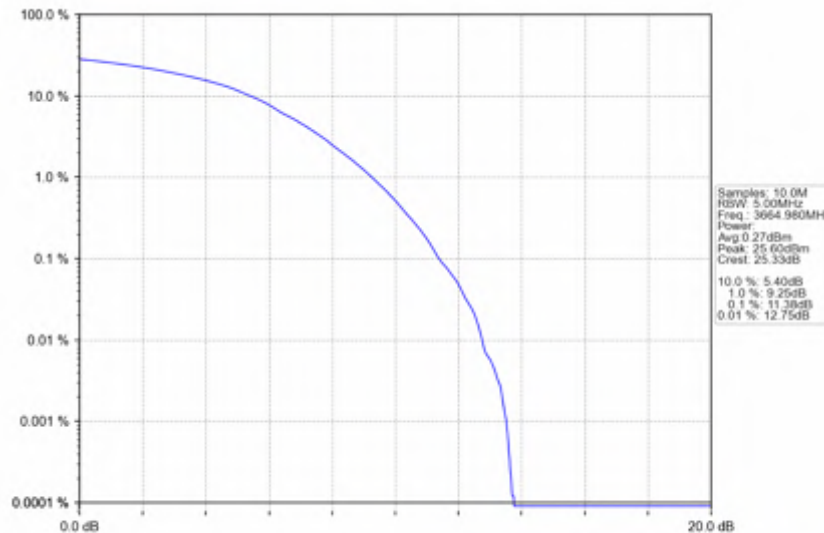


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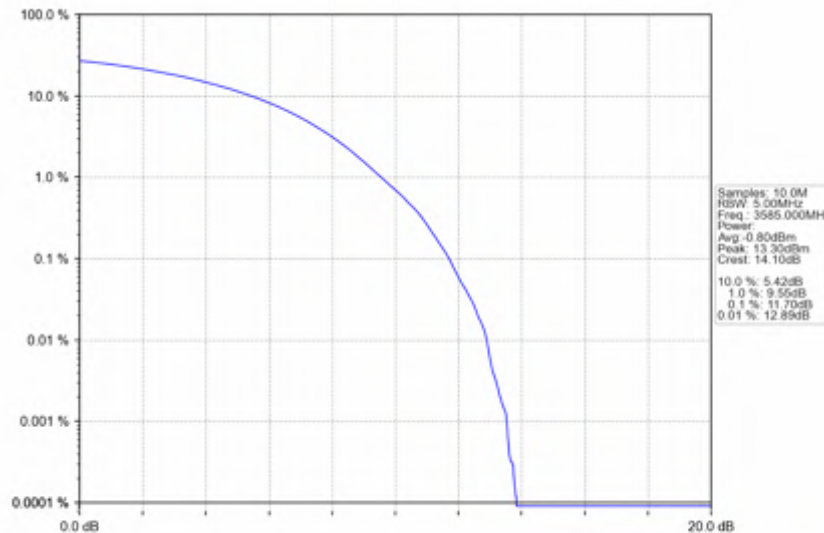
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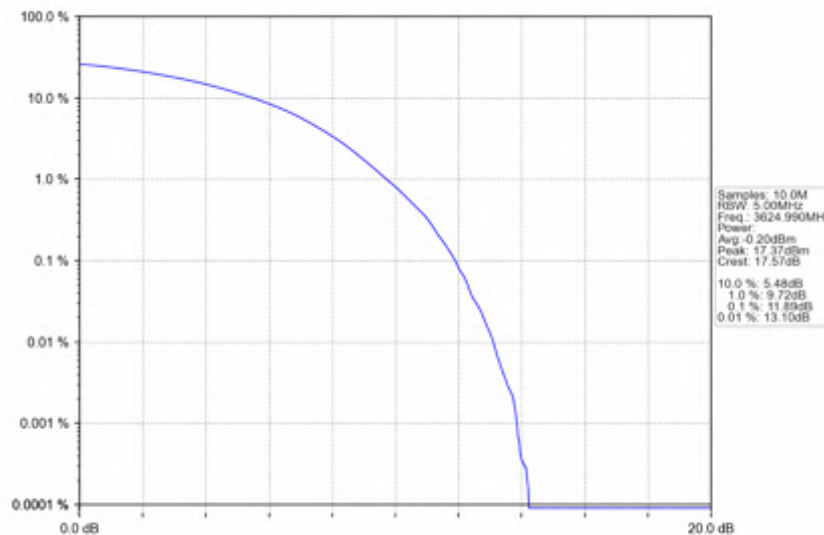
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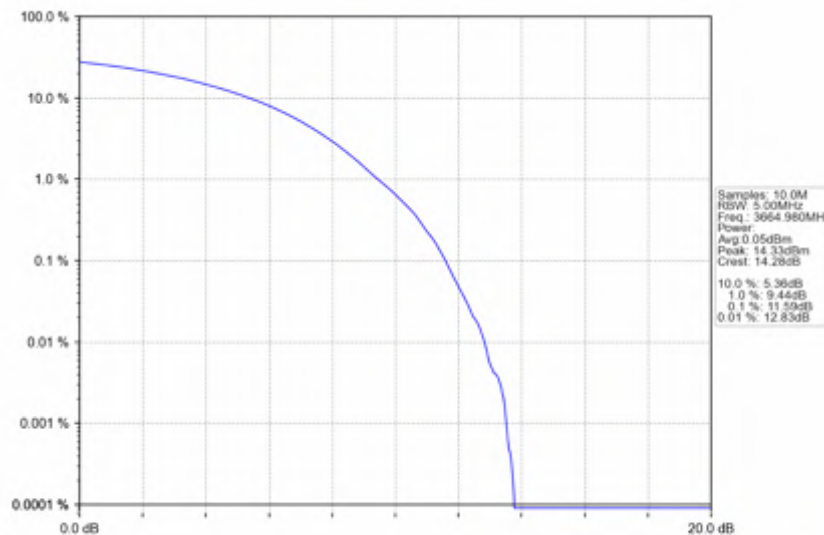
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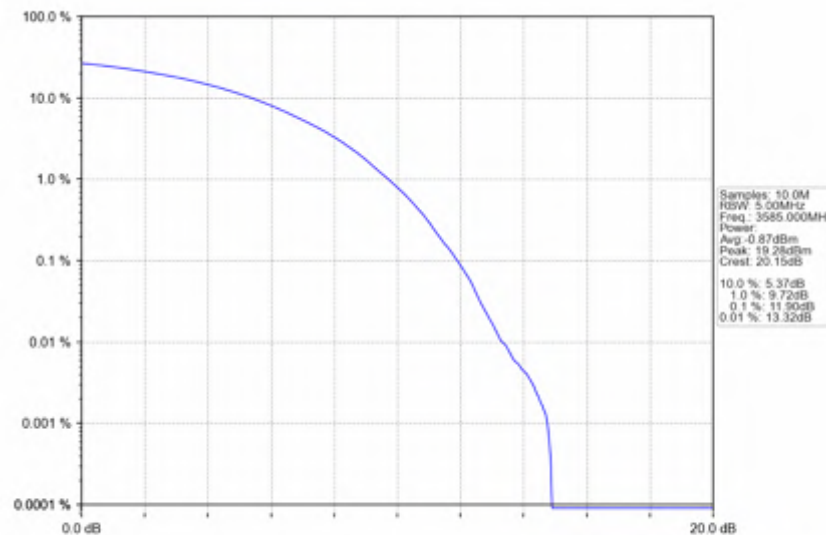


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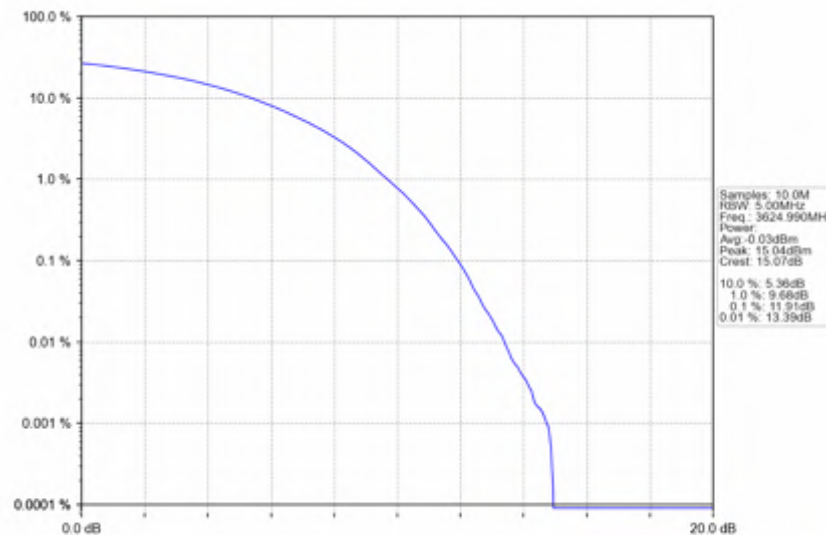
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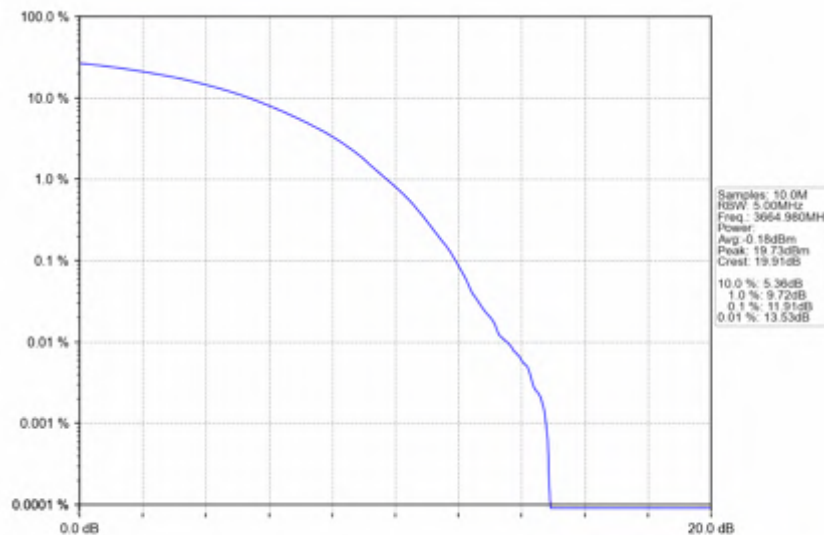


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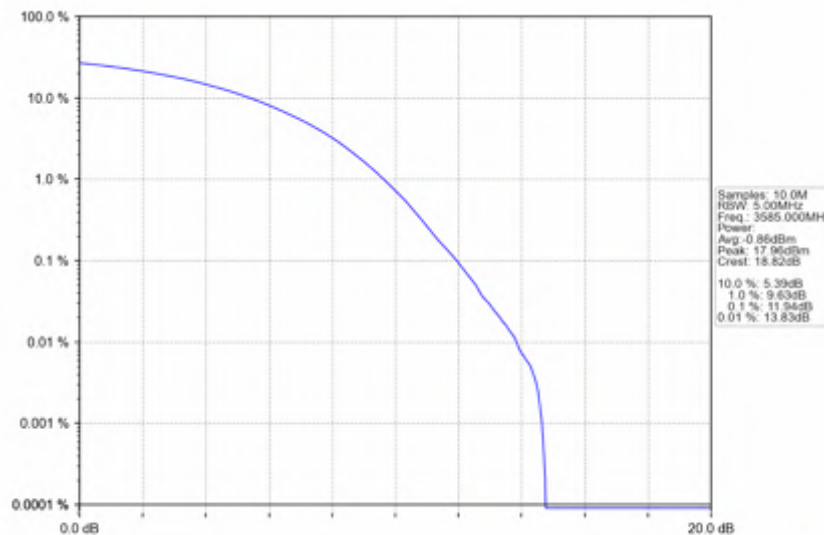
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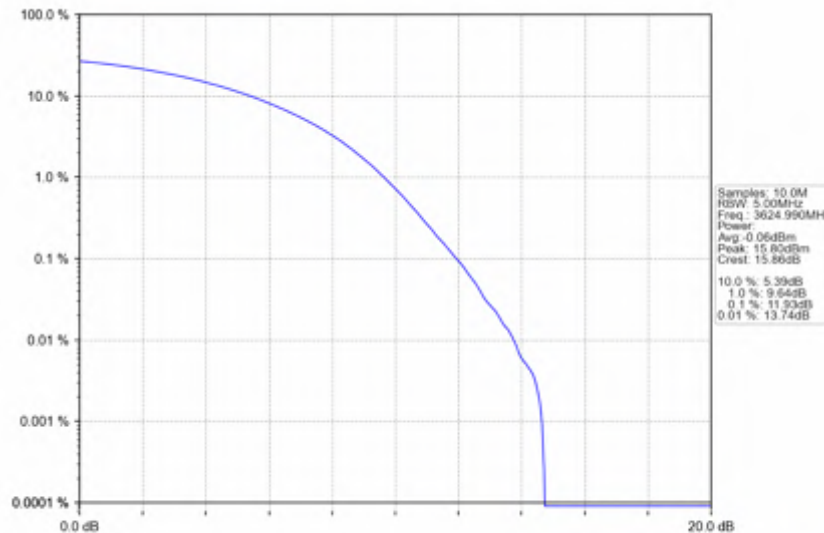


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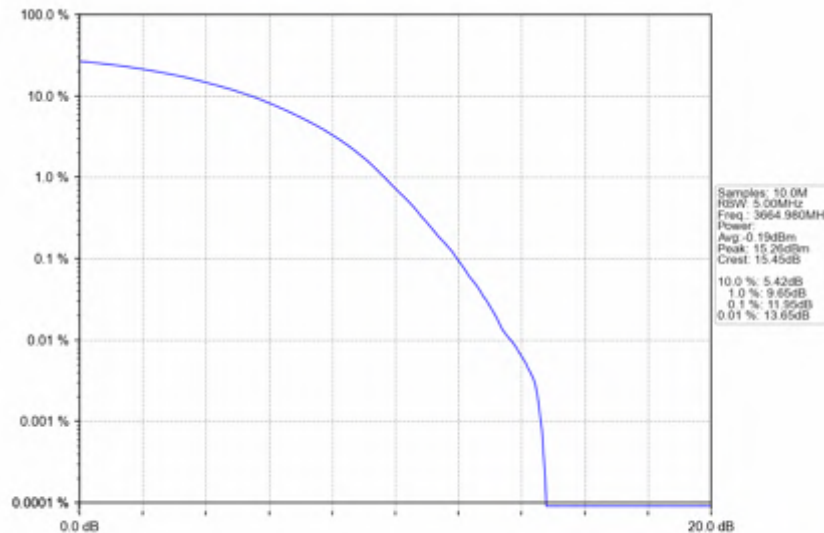
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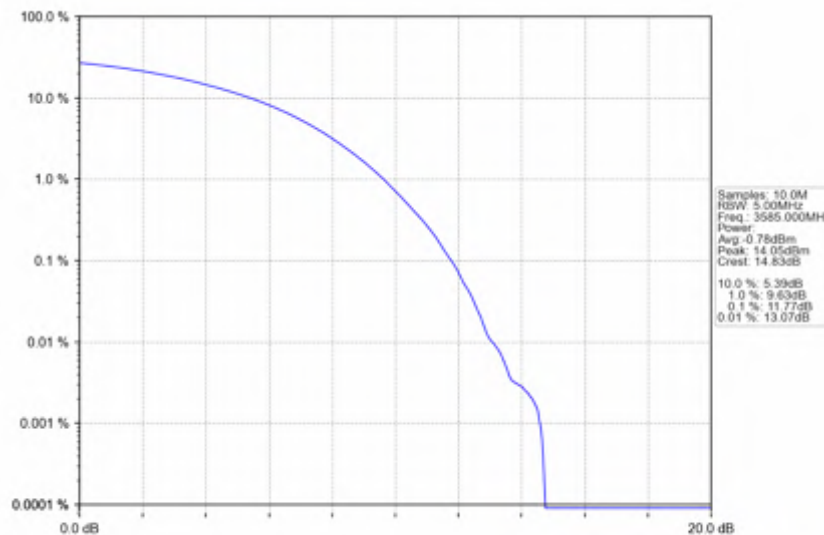


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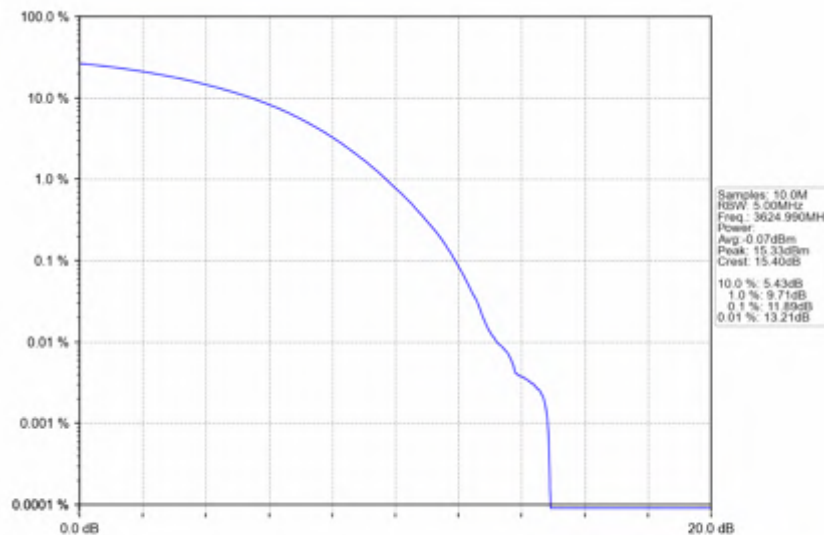
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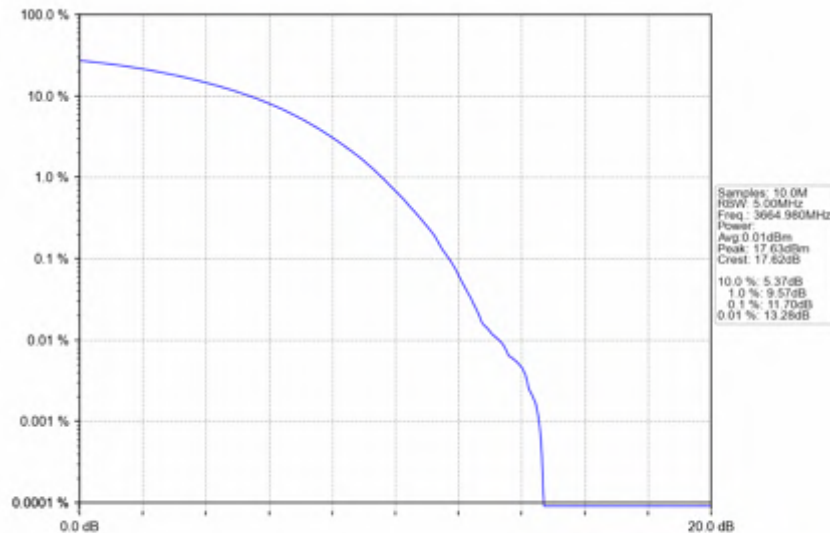


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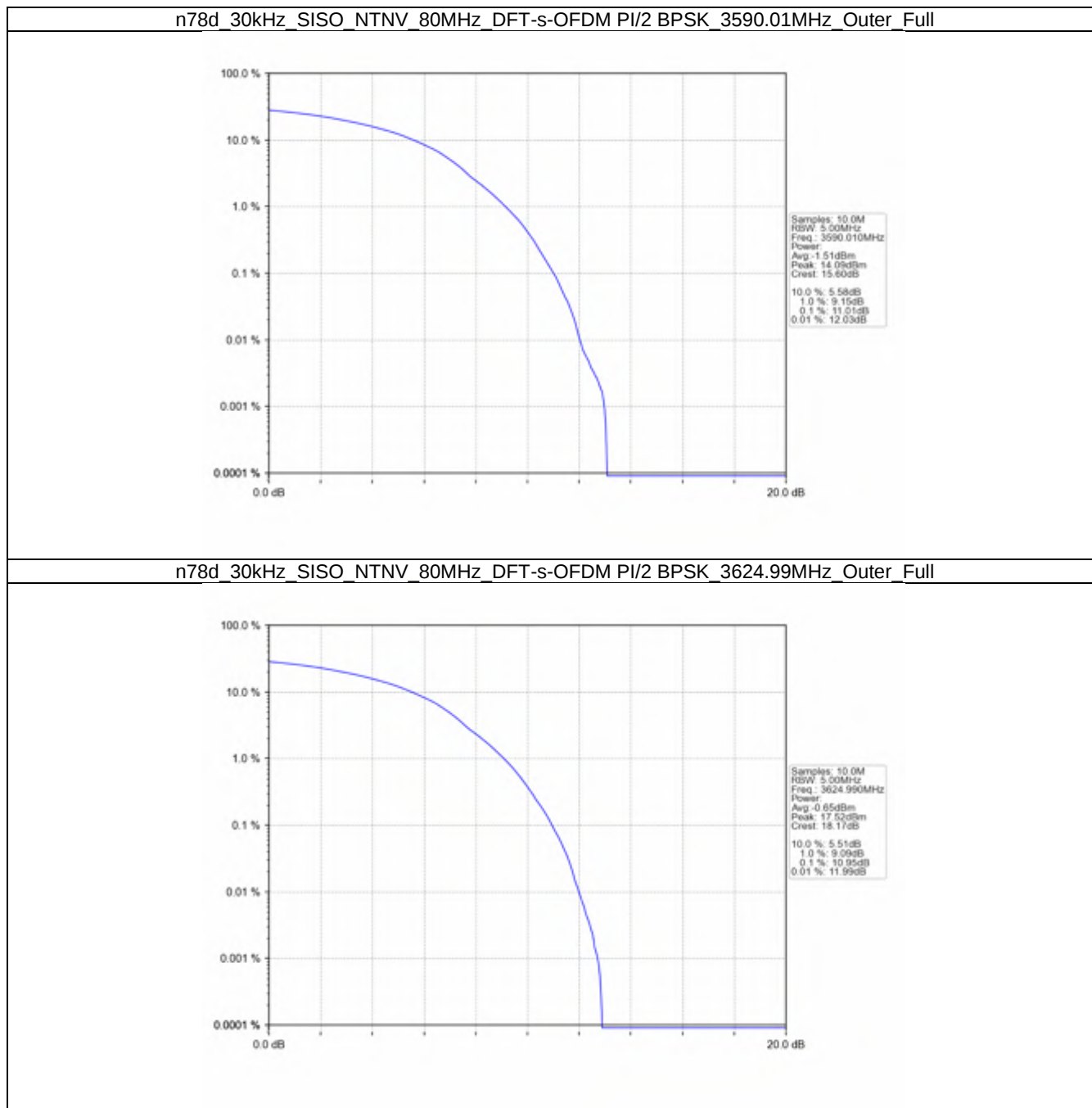
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8.17 30k_SISO_80MHz_NTNV

8.17.1 Test Result

5G NR n78d SCS=30kHz SISO 80MHz NTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3590.01	Outer_Full	11.01	/	/	<=13	Pass
	3624.99	Outer_Full	10.95	/	/	<=13	Pass
	3660	Outer_Full	10.91	/	/	<=13	Pass
DFT-s-OFDM QPSK	3590.01	Outer_Full	11.14	/	/	<=13	Pass
	3624.99	Outer_Full	11.24	/	/	<=13	Pass
	3660	Outer_Full	11.28	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3590.01	Outer_Full	11.43	/	/	<=13	Pass
	3624.99	Outer_Full	11.43	/	/	<=13	Pass
	3660	Outer_Full	11.47	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3590.01	Outer_Full	11.59	/	/	<=13	Pass
	3624.99	Outer_Full	11.26	/	/	<=13	Pass
	3660	Outer_Full	11.34	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3590.01	Outer_Full	11.40	/	/	<=13	Pass
	3624.99	Outer_Full	11.35	/	/	<=13	Pass
	3660	Outer_Full	11.44	/	/	<=13	Pass
CP-OFDM QPSK	3590.01	Outer_Full	11.57	/	/	<=13	Pass
	3624.99	Outer_Full	11.49	/	/	<=13	Pass
	3660	Outer_Full	11.61	/	/	<=13	Pass
CP-OFDM 16 QAM	3590.01	Outer_Full	11.63	/	/	<=13	Pass
	3624.99	Outer_Full	11.77	/	/	<=13	Pass
	3660	Outer_Full	11.70	/	/	<=13	Pass
CP-OFDM 64 QAM	3590.01	Outer_Full	11.78	/	/	<=13	Pass
	3624.99	Outer_Full	11.91	/	/	<=13	Pass
	3660	Outer_Full	11.60	/	/	<=13	Pass
CP-OFDM 256 QAM	3590.01	Outer_Full	11.72	/	/	<=13	Pass
	3624.99	Outer_Full	11.44	/	/	<=13	Pass
	3660	Outer_Full	11.72	/	/	<=13	Pass

8.17.2 Test Graph



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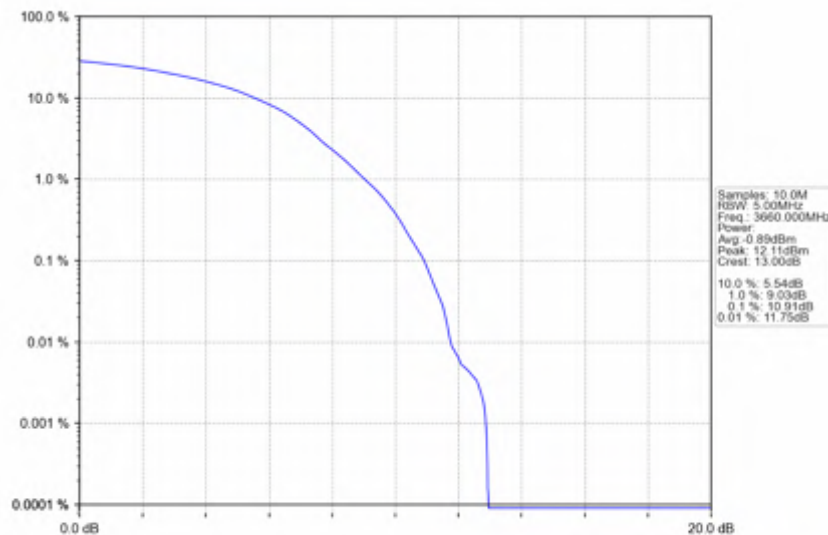
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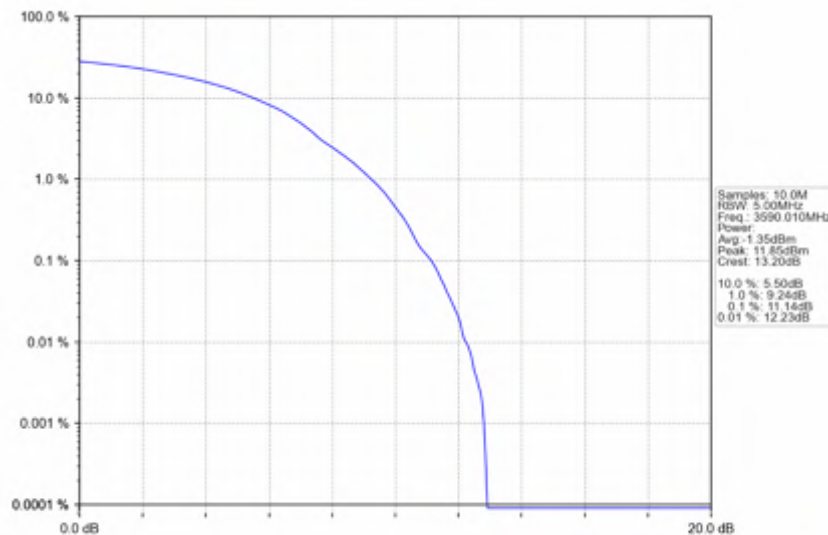
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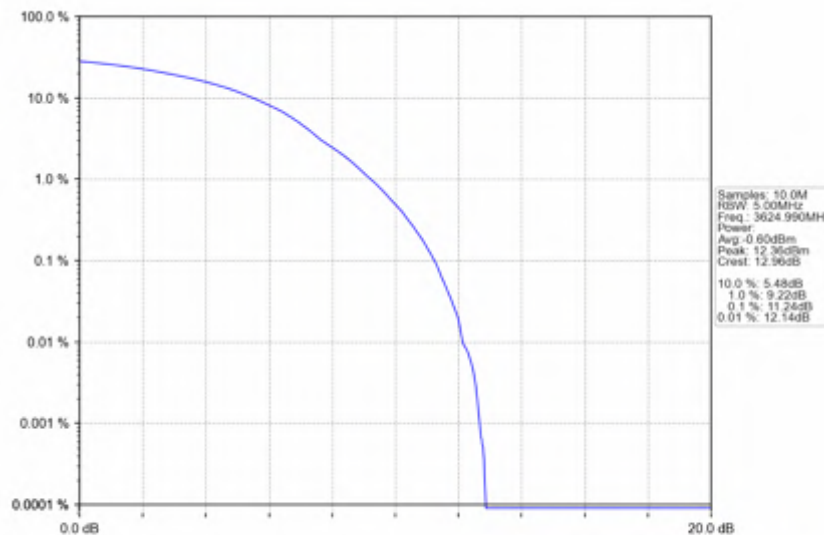
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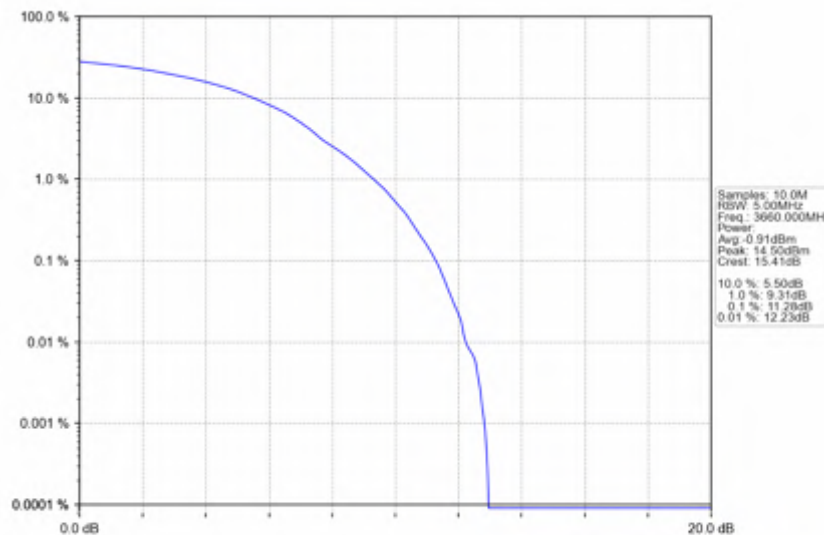
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n78d_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_QPSK_3624.99MHz_Outer_Full



n78d_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_QPSK_3660MHz_Outer_Full



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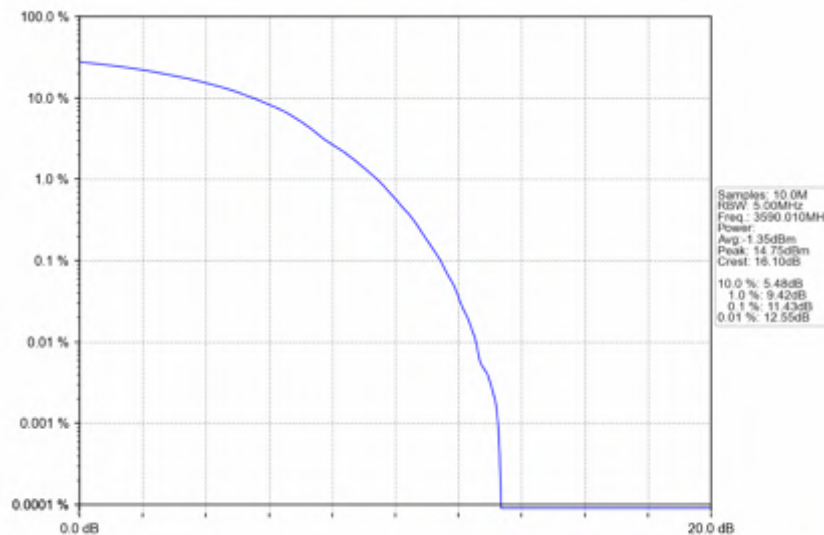
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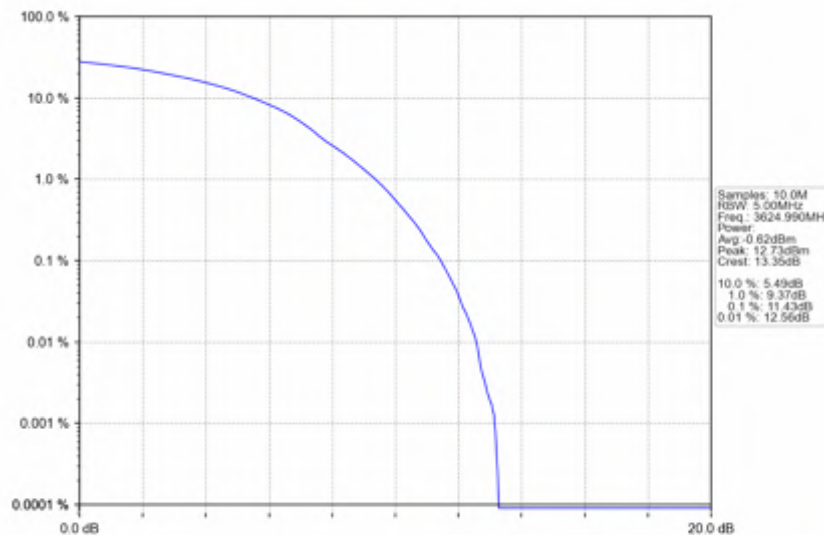
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n78d_30kHz_SISO_NTV_80MHz_DFT-s-OFDM_16_QAM_3624.99MHz_Outer_Full



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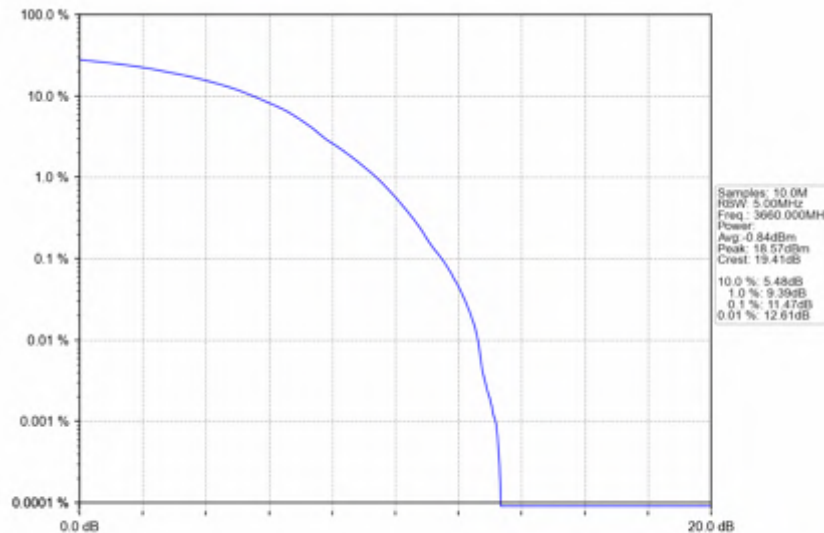
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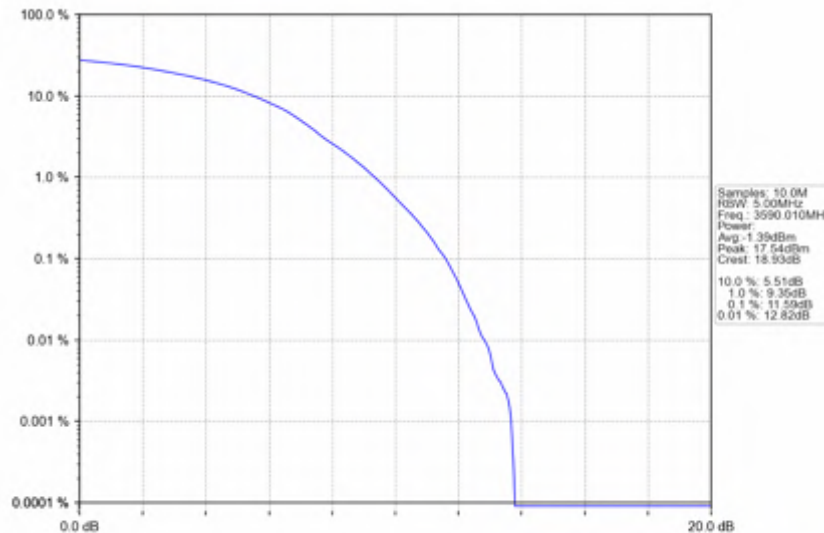
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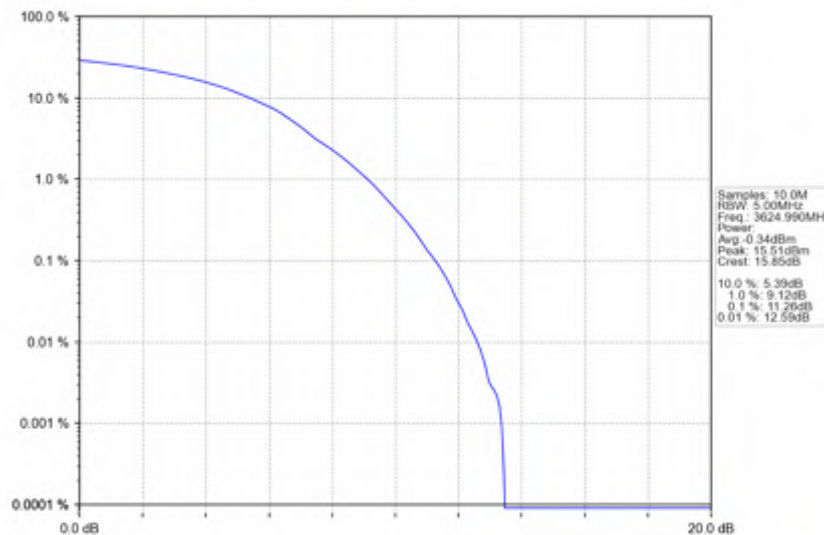


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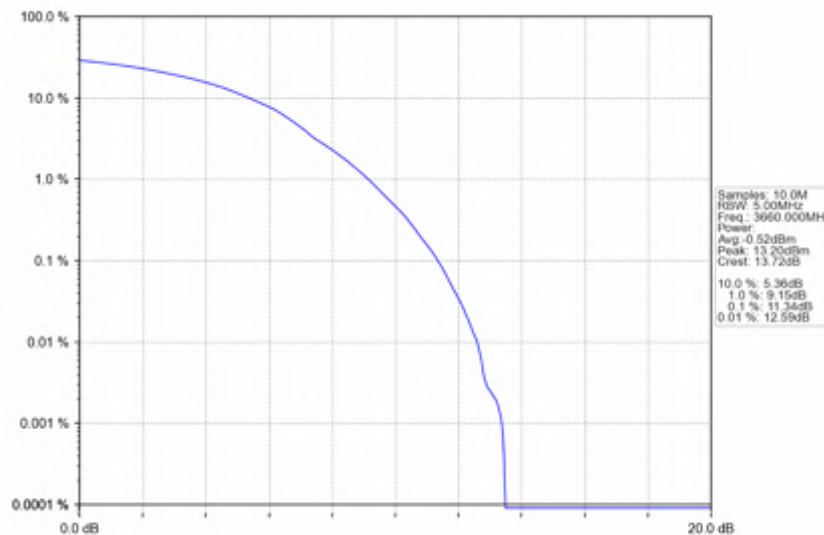
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n78d_30kHz_SISO_NTV_80MHz_DFT-s-OFDM 64 QAM_3624.99MHz_Outer_Full



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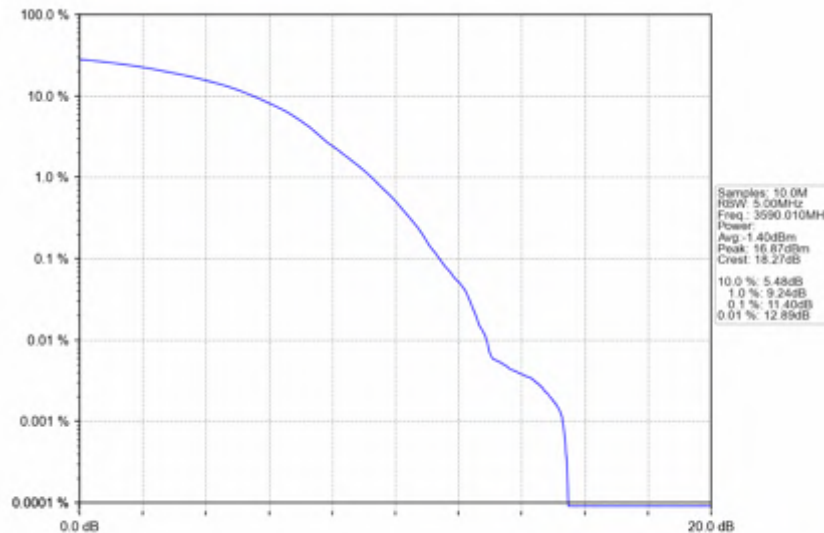
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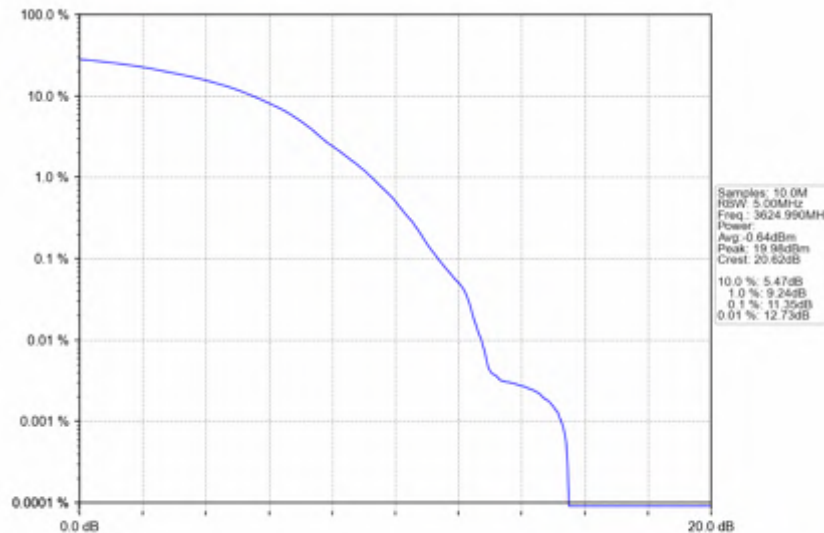
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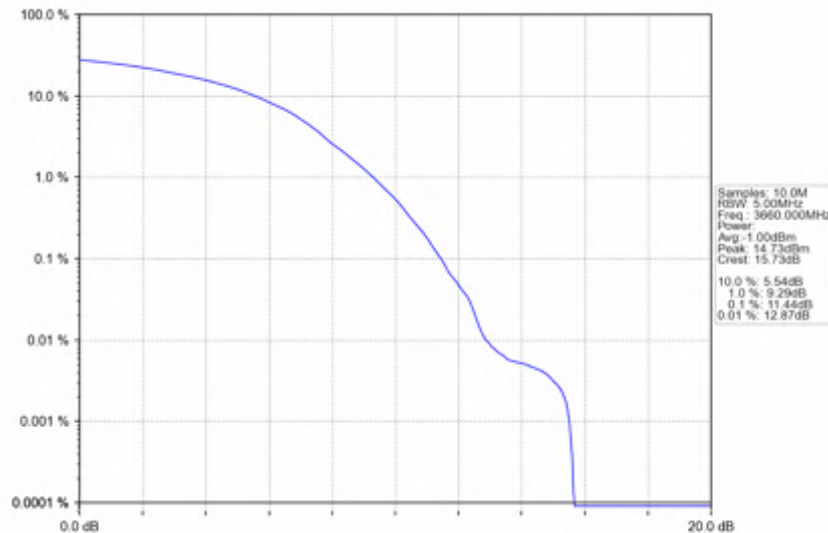
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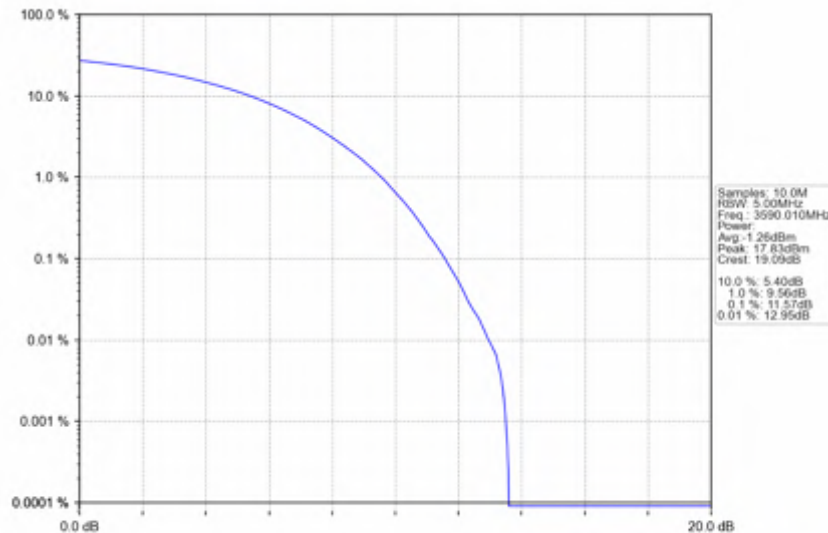
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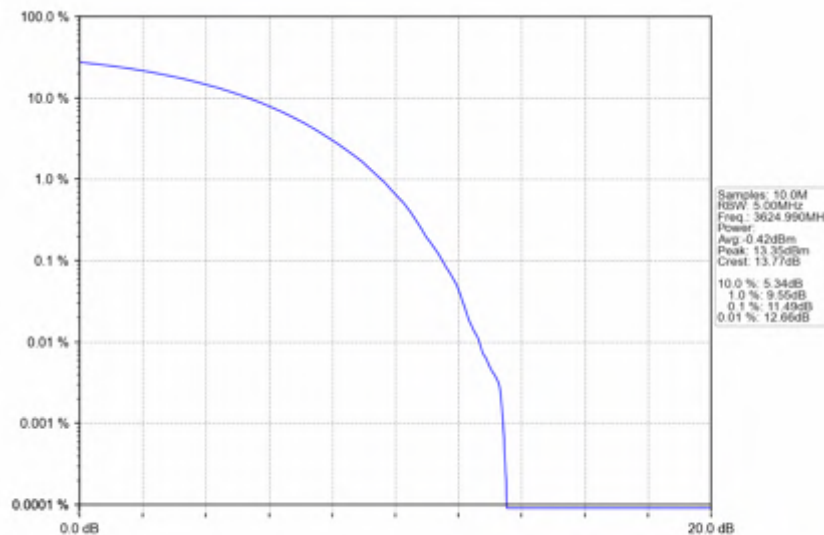


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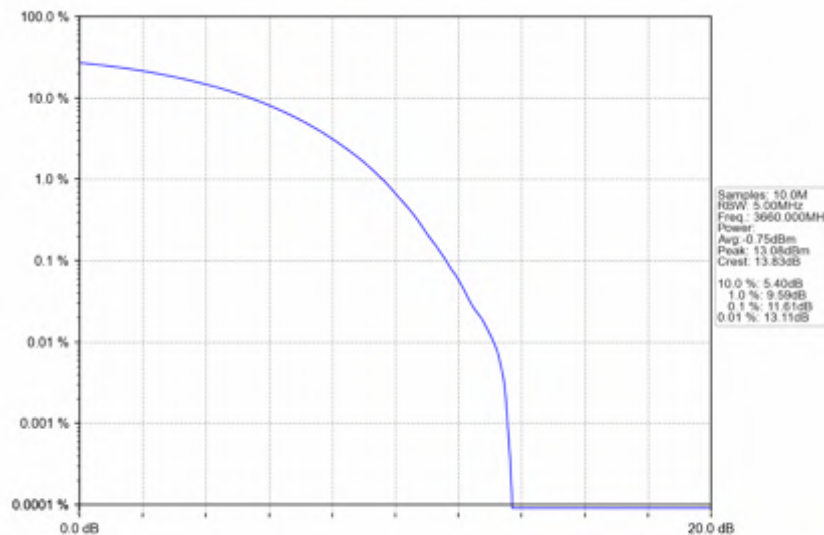
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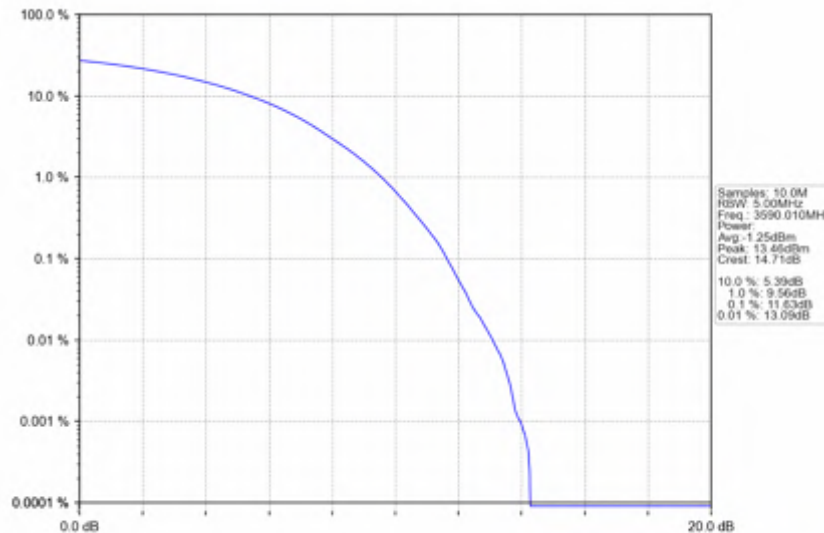


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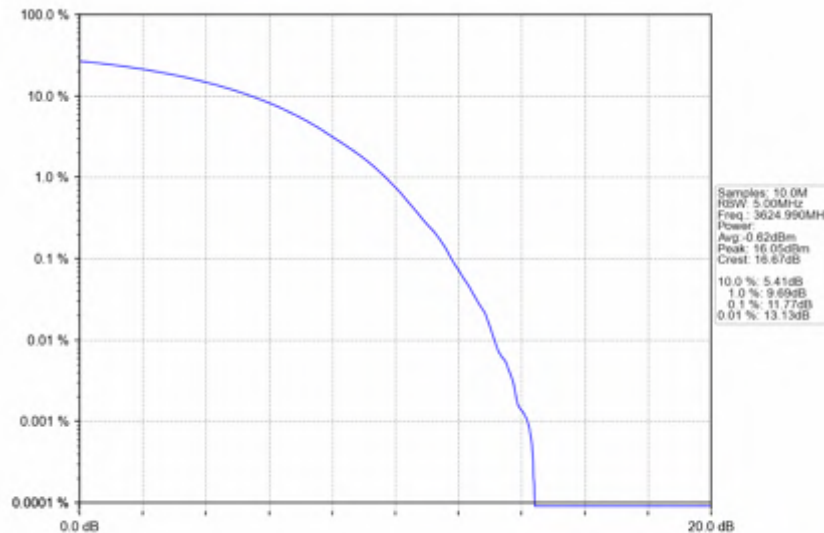
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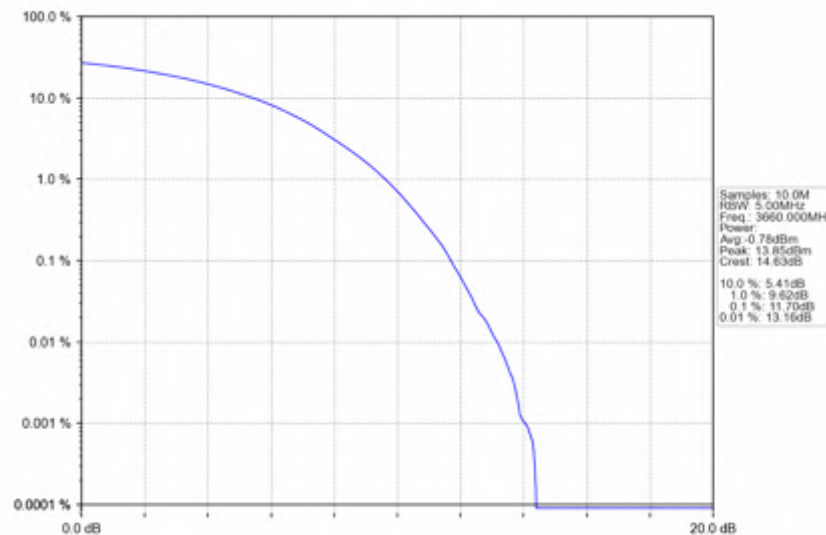


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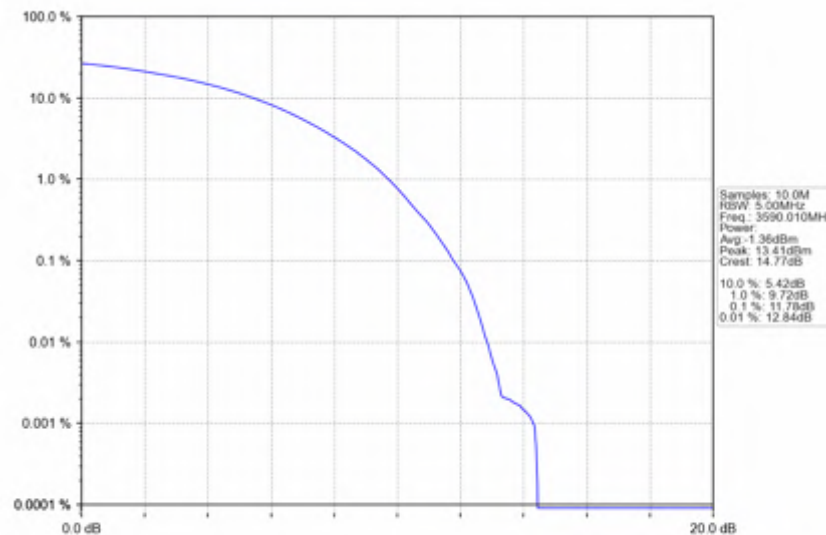
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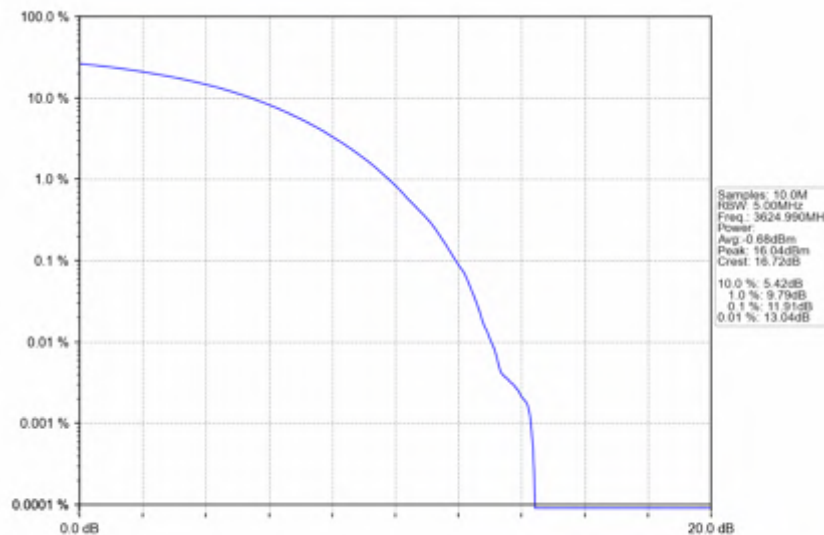


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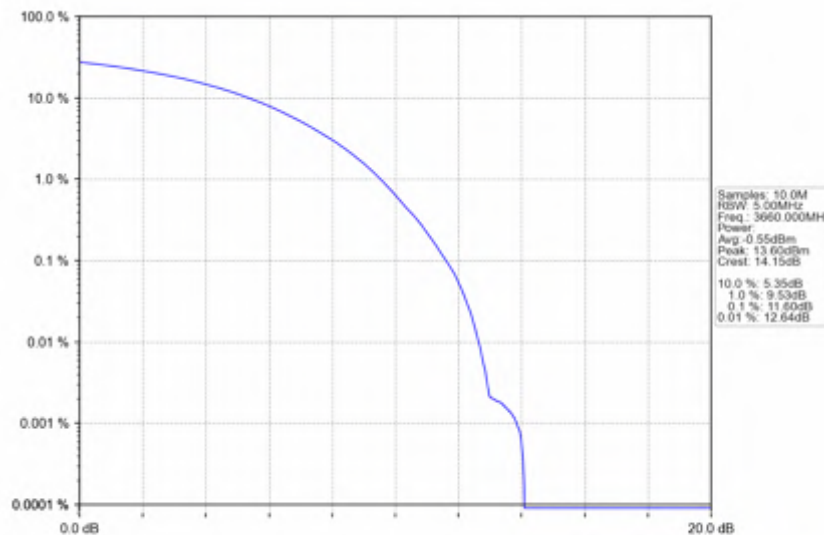
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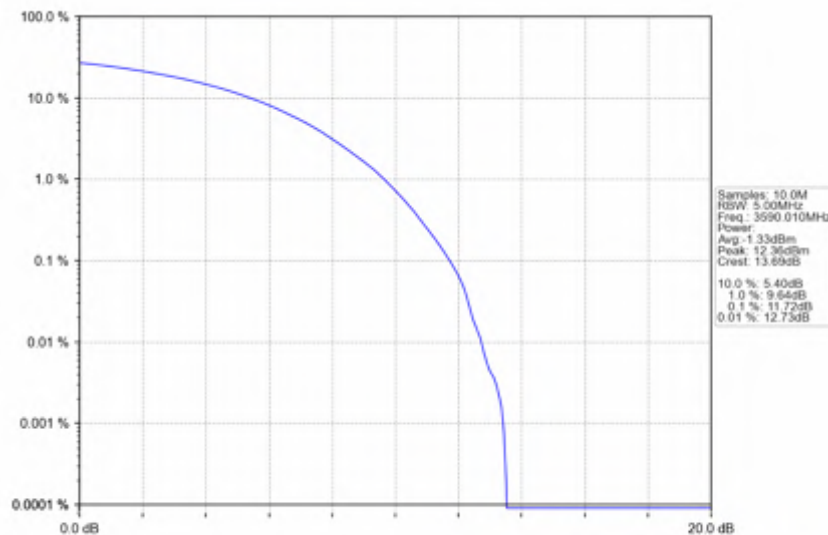


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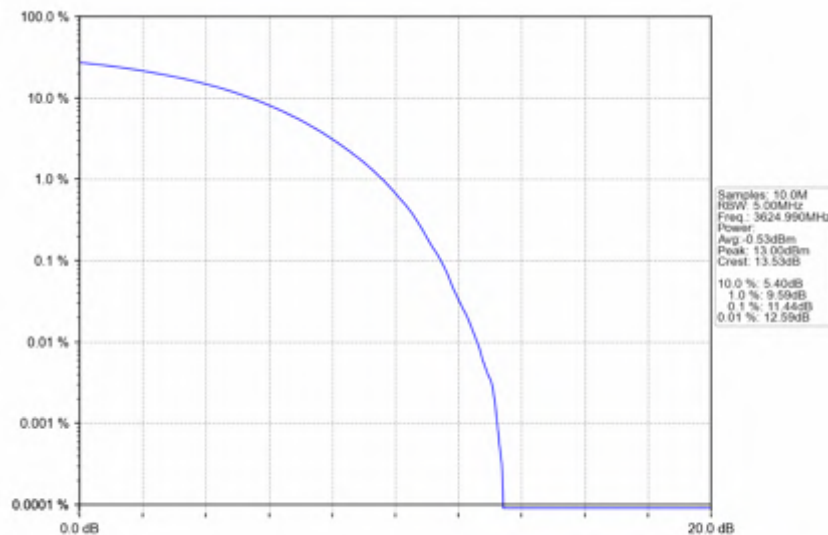
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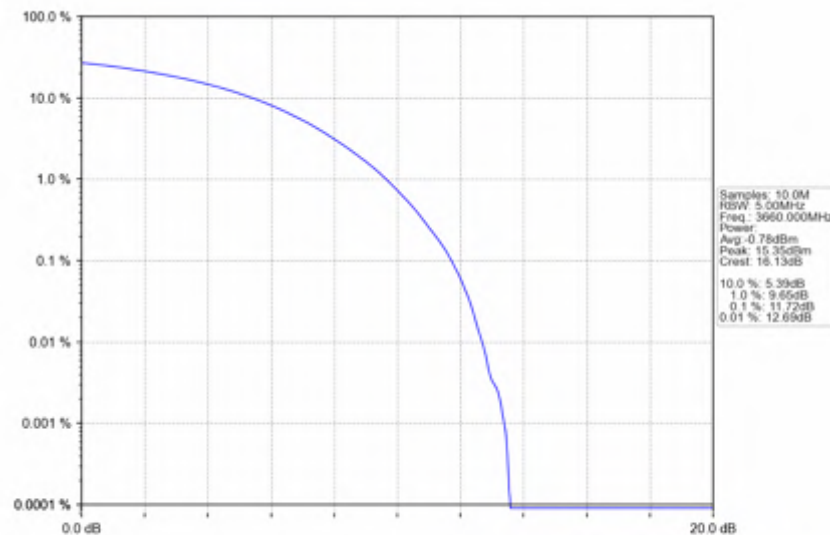
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8.18.1 Test Result



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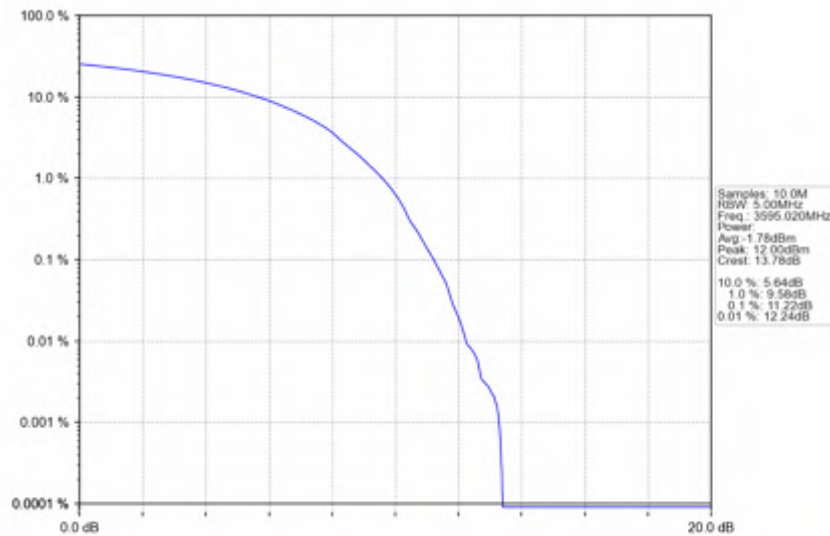
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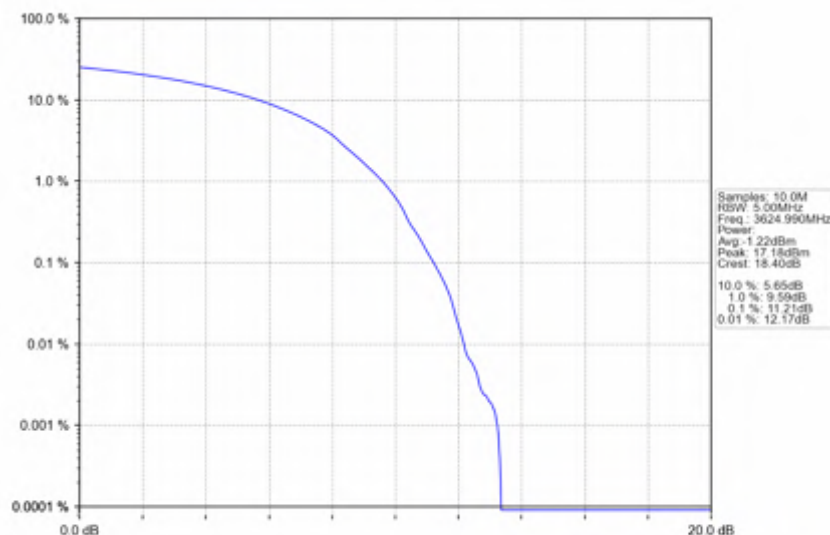
Test Report Form Version: Rev01
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8.18.2 Test Graph

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n78d_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM PI/2 BPSK_3624.99MHz_Outer_Full



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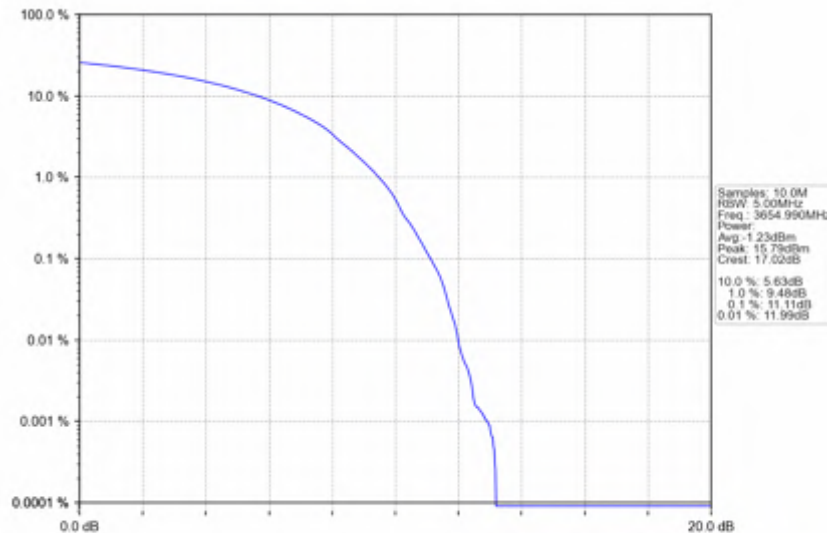
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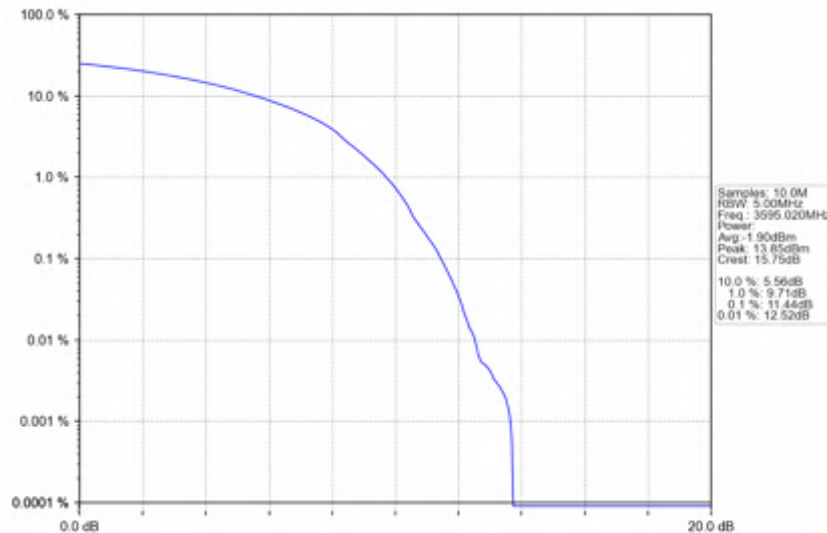
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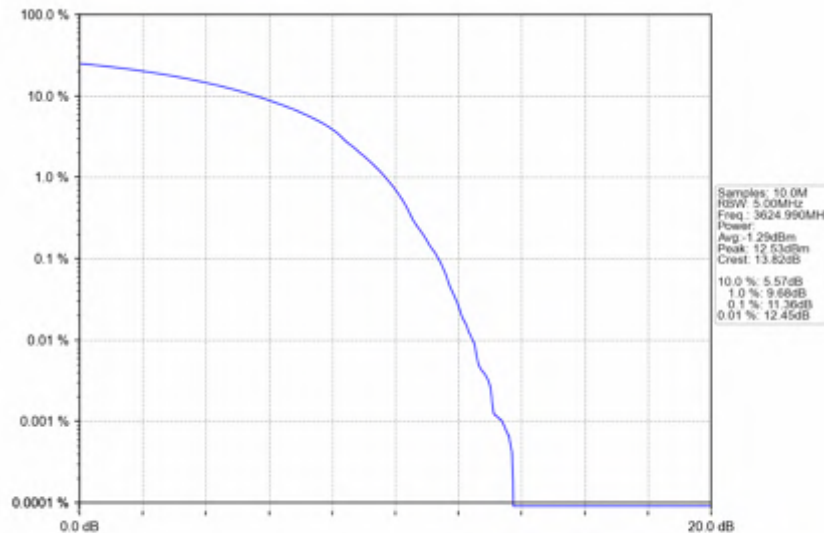
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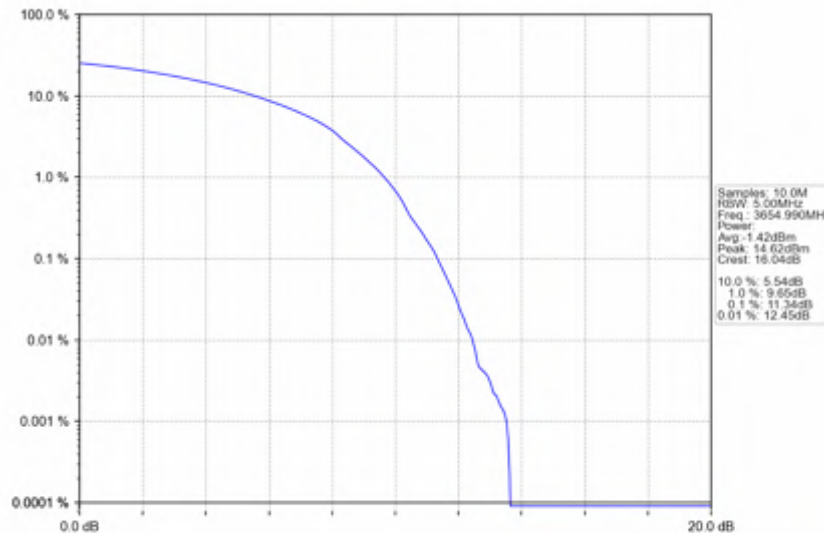
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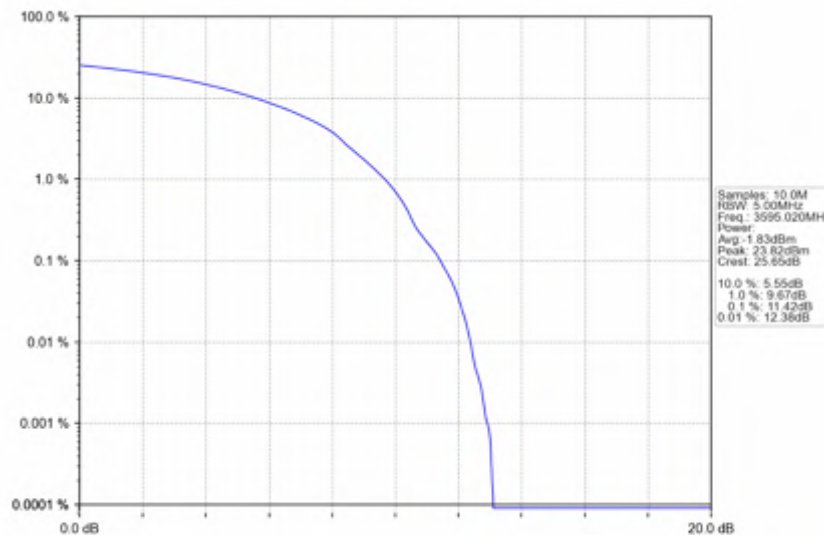
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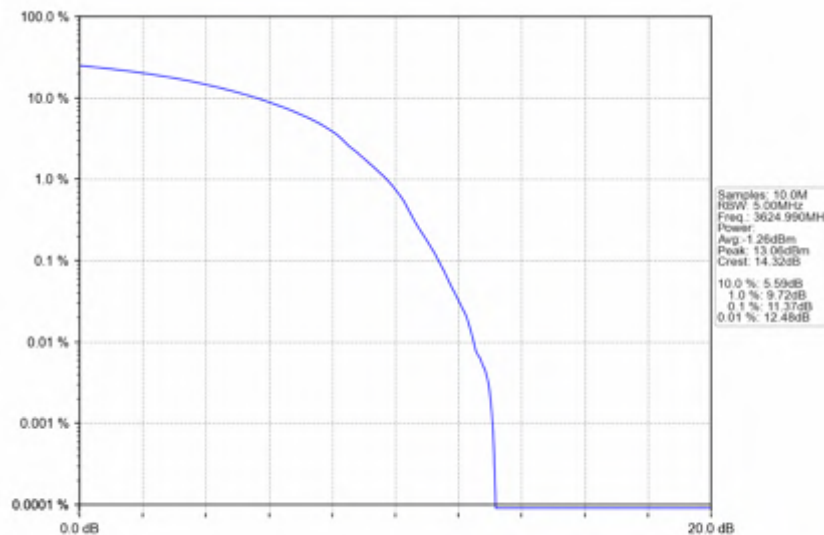
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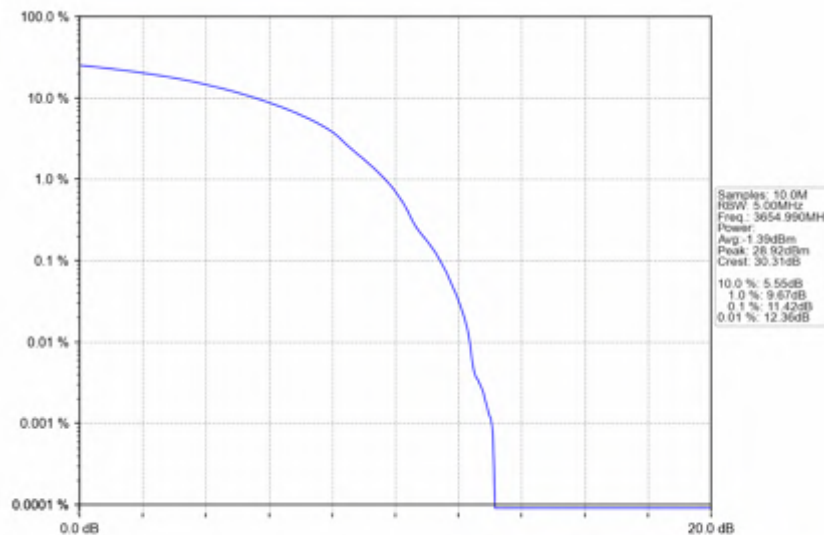
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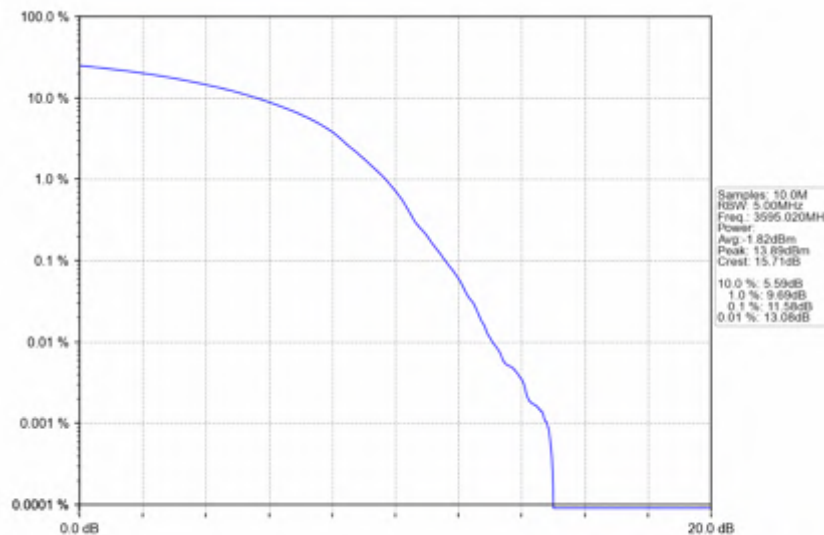
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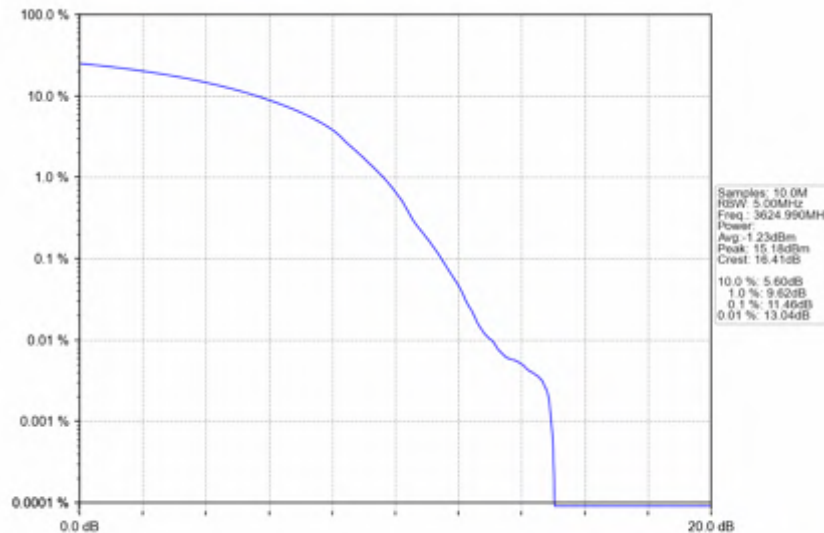


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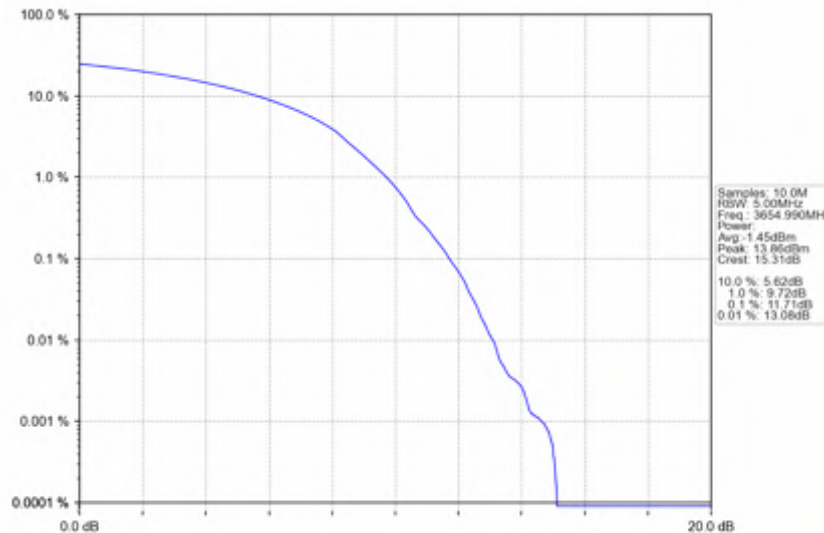
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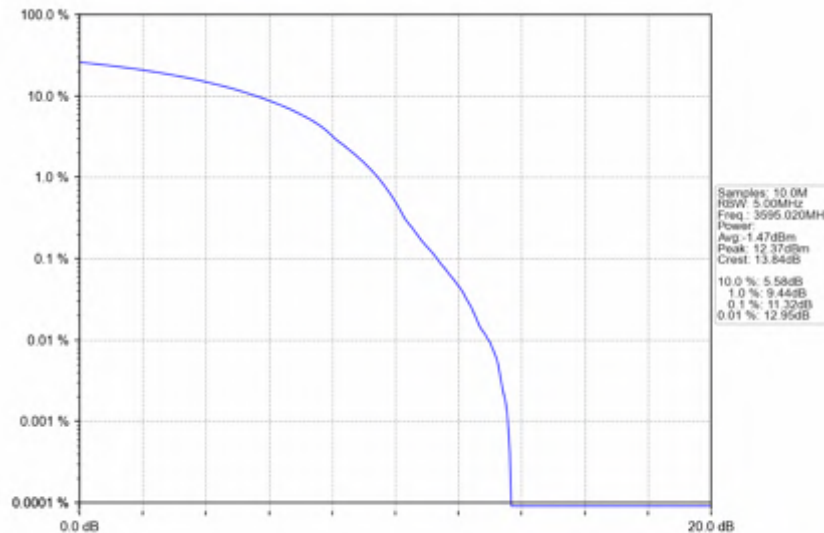


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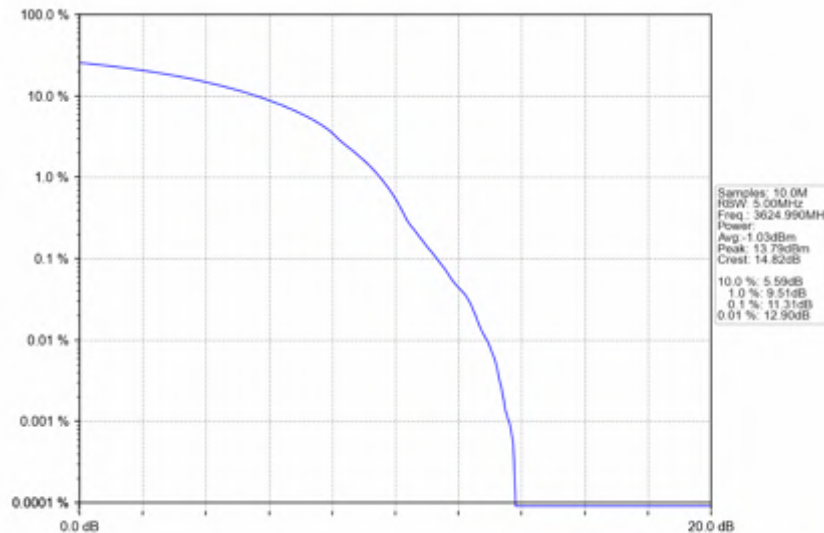
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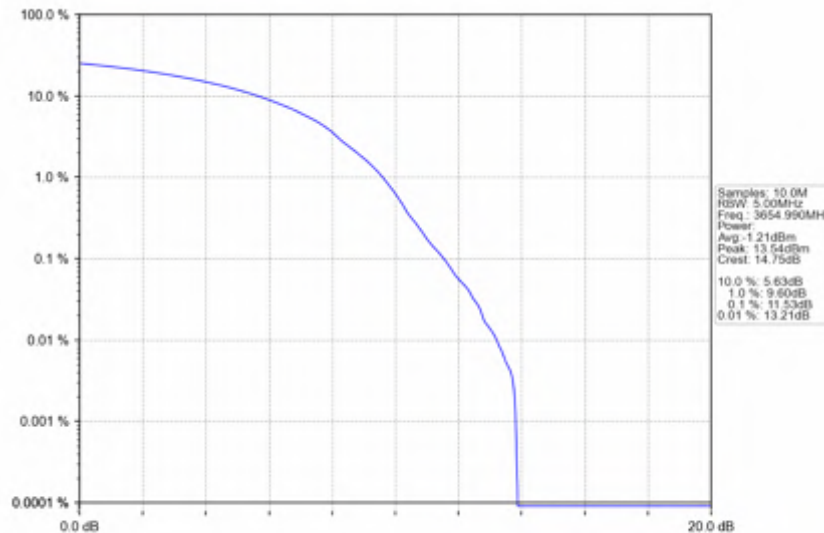


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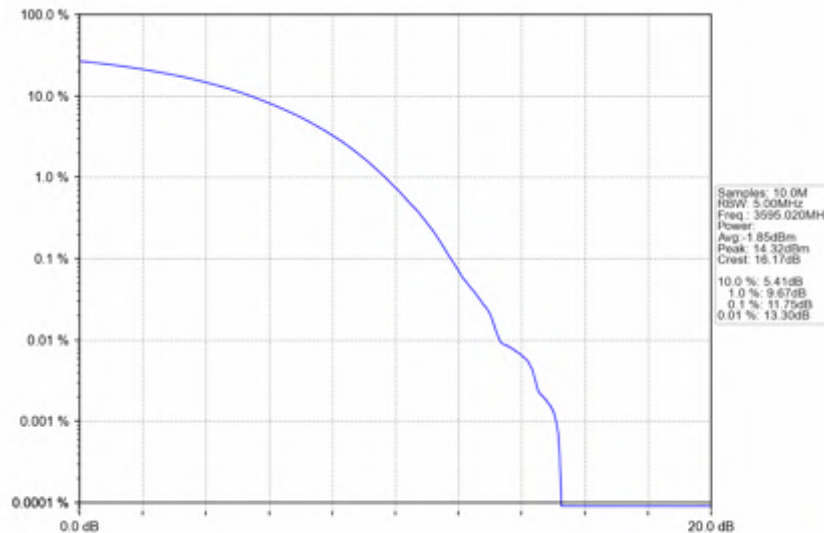
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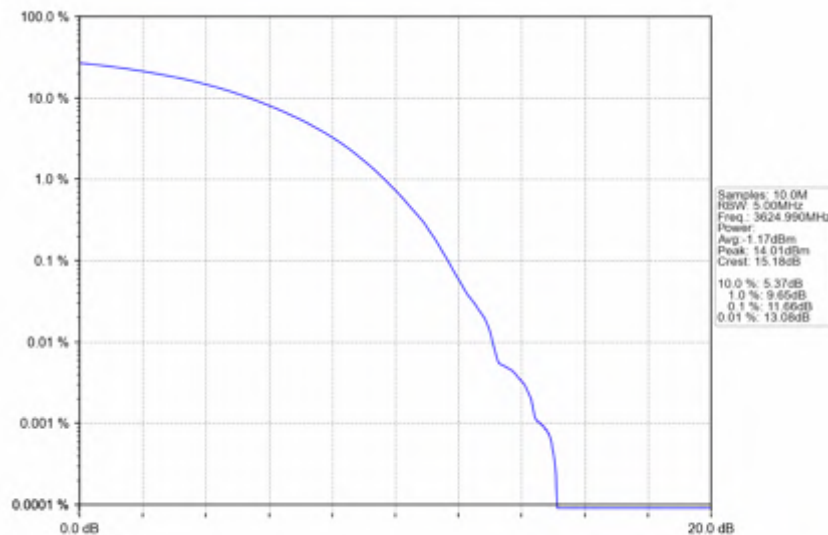
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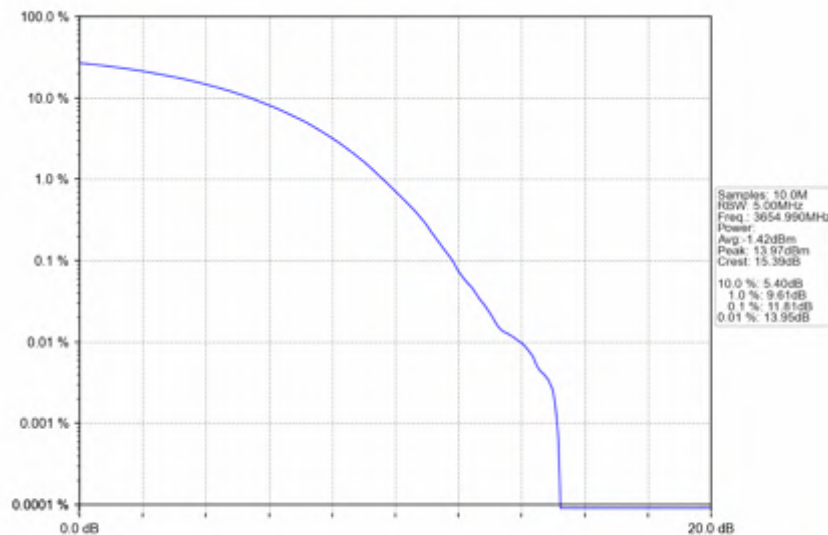
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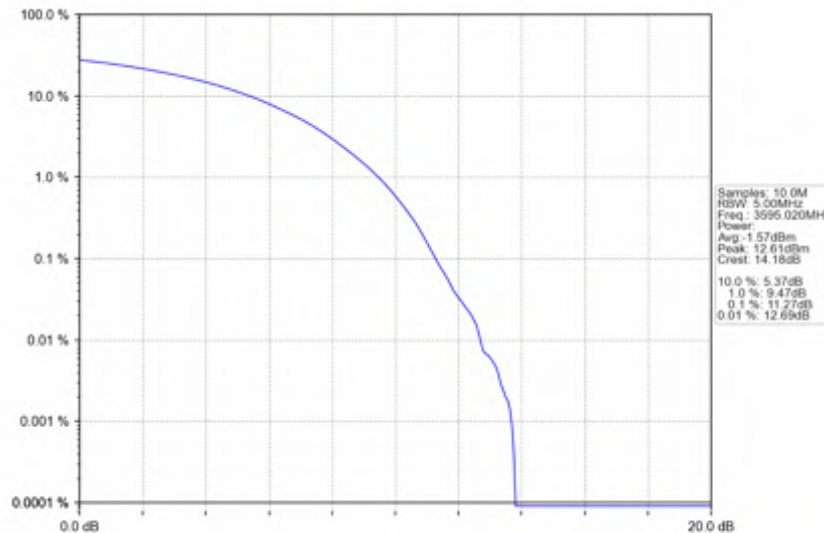
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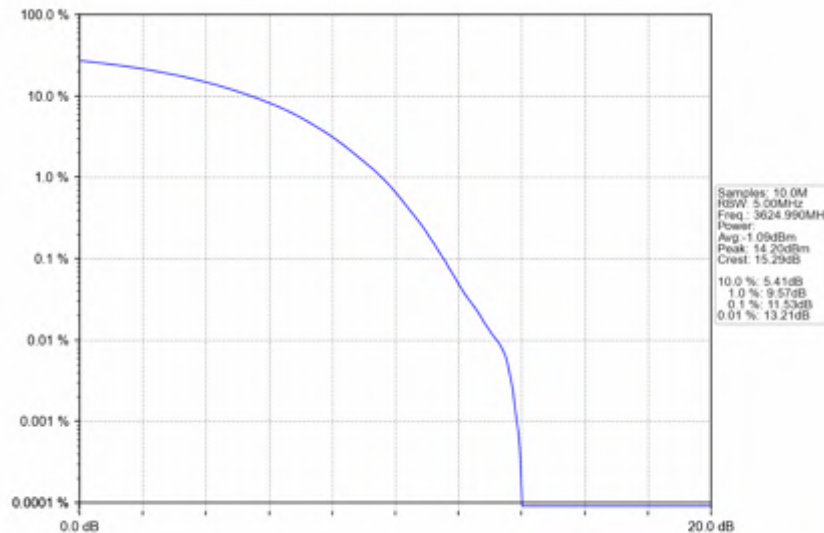
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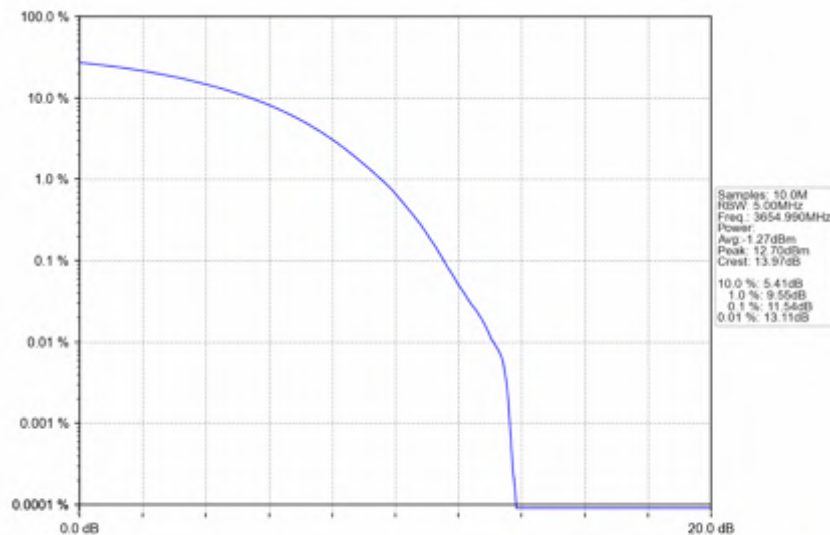


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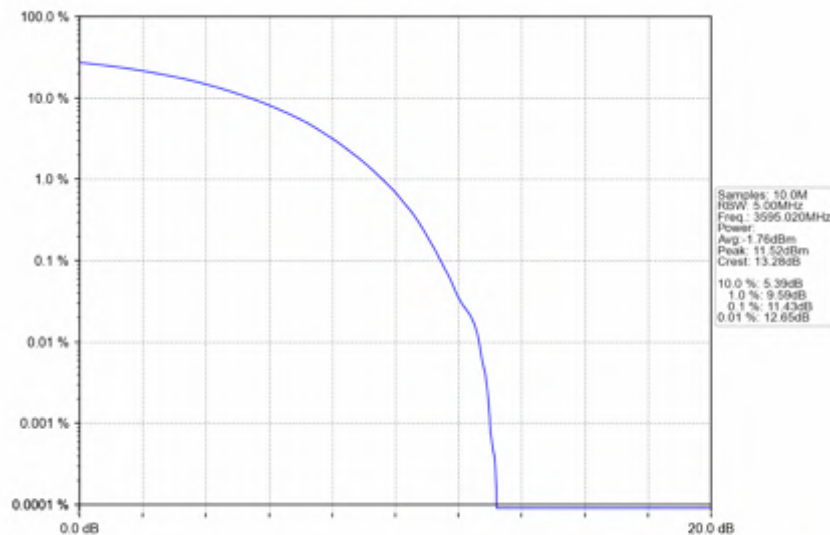
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n78d_30kHz_SISO_NTNV_90MHz_CP-OFDM 16 QAM_3654.99MHz_Outer_Full



n78d_30kHz_SISO_NTNV_90MHz_CP-OFDM 64 QAM_3595.02MHz_Outer_Full



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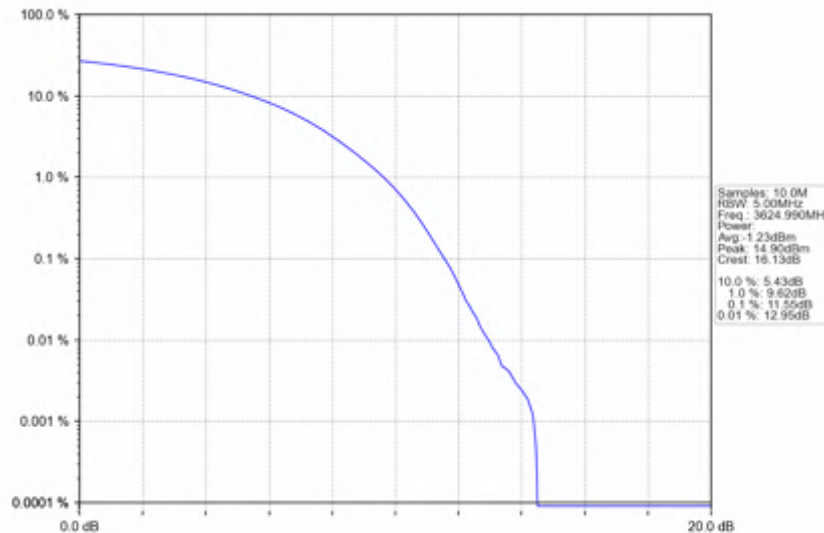
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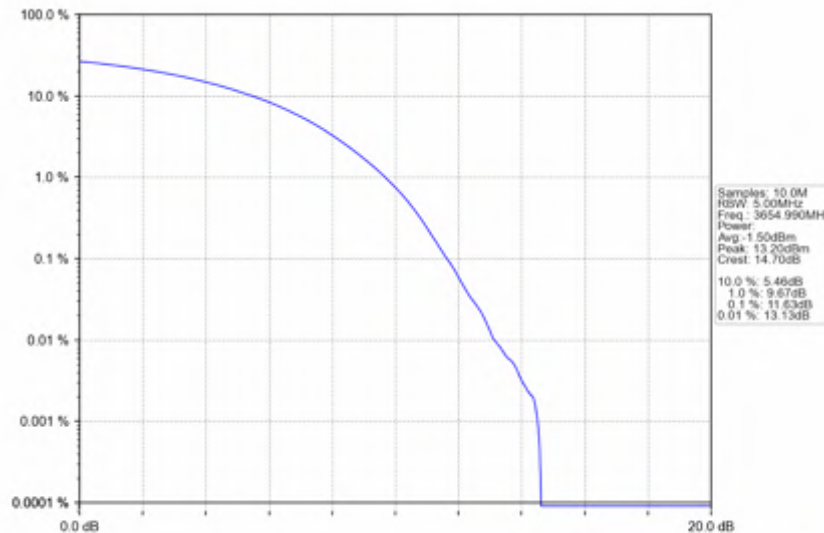
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n78d_30kHz_SISO_NTNV_90MHz_CP-OFDM 64 QAM_3654.99MHz_Outer_Full

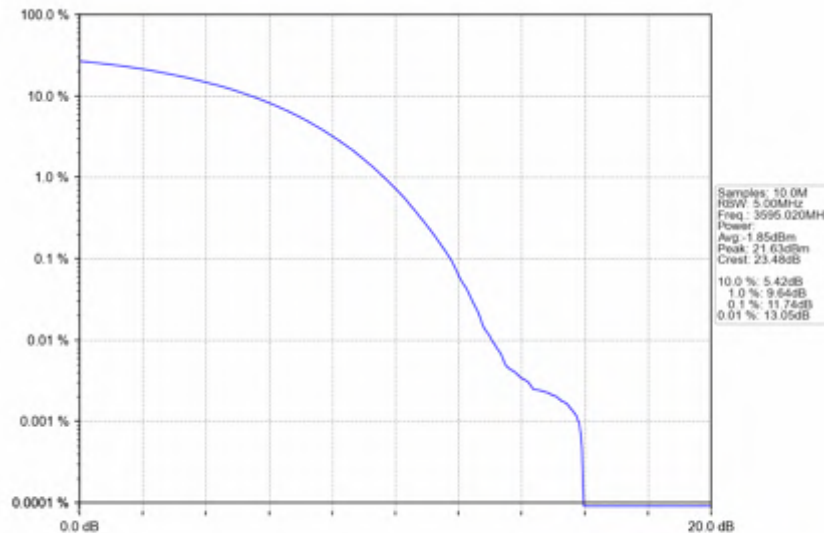


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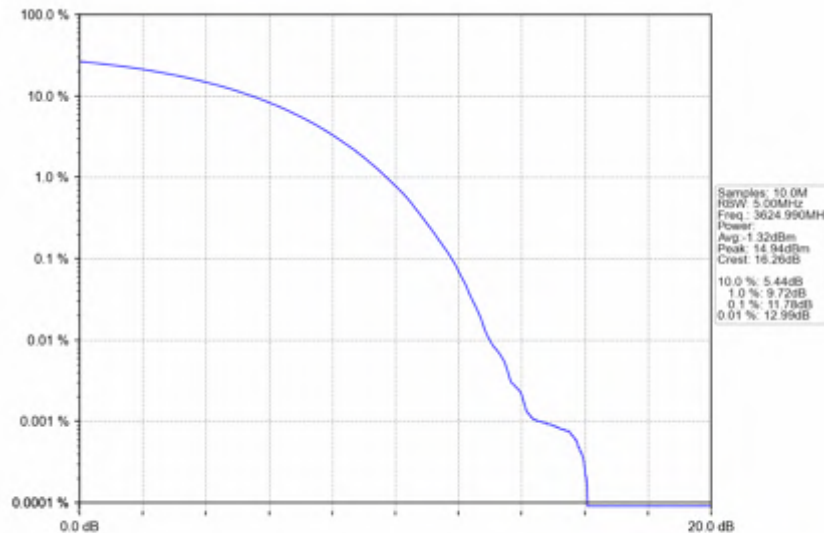
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n78d_30kHz_SISO_NTNV_90MHz_CP-OFDM_256_QAM_3595.02MHz_Outer_Full



n78d_30kHz_SISO_NTNV_90MHz_CP-OFDM_256_QAM_3624.99MHz_Outer_Full



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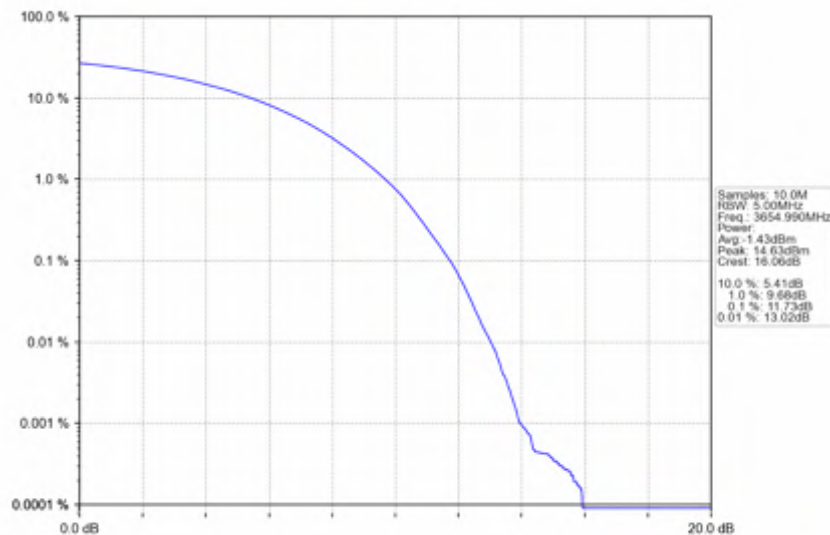
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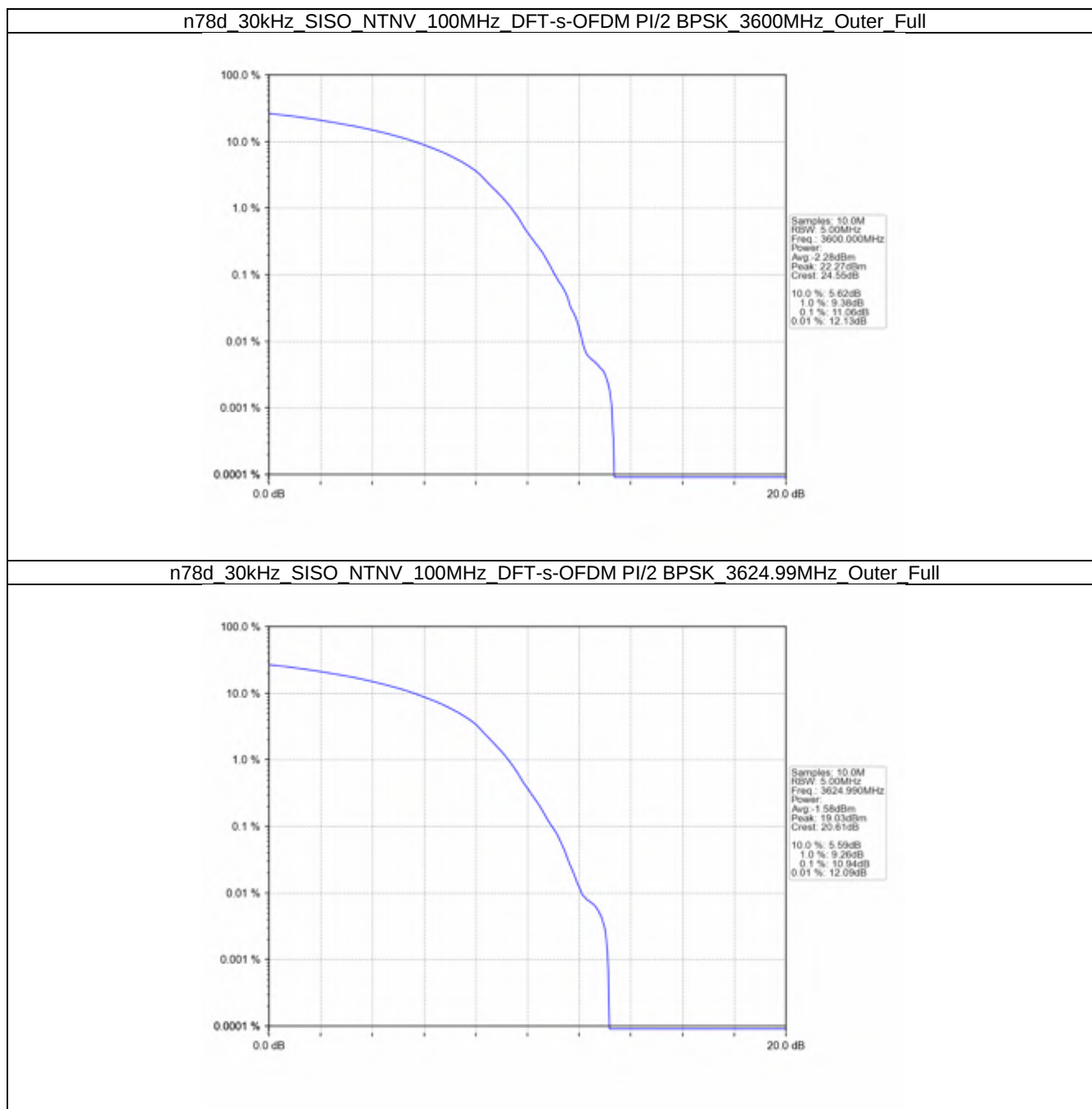
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8.19 30k_SISO_100MHz_NTNV

8.19.1 Test Result

5G NR n78d SCS=30kHz SISO 100MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3600	Outer_Full	11.06	/	/	<=13	Pass
	3624.99	Outer_Full	10.94	/	/	<=13	Pass
	3649.98	Outer_Full	10.95	/	/	<=13	Pass
DFT-s-OFDM QPSK	3600	Outer_Full	11.47	/	/	<=13	Pass
	3624.99	Outer_Full	11.25	/	/	<=13	Pass
	3649.98	Outer_Full	11.27	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3600	Outer_Full	11.57	/	/	<=13	Pass
	3624.99	Outer_Full	11.67	/	/	<=13	Pass
	3649.98	Outer_Full	11.48	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3600	Outer_Full	11.66	/	/	<=13	Pass
	3624.99	Outer_Full	11.49	/	/	<=13	Pass
	3649.98	Outer_Full	11.54	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3600	Outer_Full	11.59	/	/	<=13	Pass
	3624.99	Outer_Full	11.27	/	/	<=13	Pass
	3649.98	Outer_Full	11.53	/	/	<=13	Pass
CP-OFDM QPSK	3600	Outer_Full	11.57	/	/	<=13	Pass
	3624.99	Outer_Full	11.83	/	/	<=13	Pass
	3649.98	Outer_Full	11.71	/	/	<=13	Pass
CP-OFDM 16 QAM	3600	Outer_Full	11.51	/	/	<=13	Pass
	3624.99	Outer_Full	11.40	/	/	<=13	Pass
	3649.98	Outer_Full	11.48	/	/	<=13	Pass
CP-OFDM 64 QAM	3600	Outer_Full	11.74	/	/	<=13	Pass
	3624.99	Outer_Full	11.86	/	/	<=13	Pass
	3649.98	Outer_Full	11.81	/	/	<=13	Pass
CP-OFDM 256 QAM	3600	Outer_Full	11.65	/	/	<=13	Pass
	3624.99	Outer_Full	11.48	/	/	<=13	Pass
	3649.98	Outer_Full	11.55	/	/	<=13	Pass

8.19.2 Test Graph



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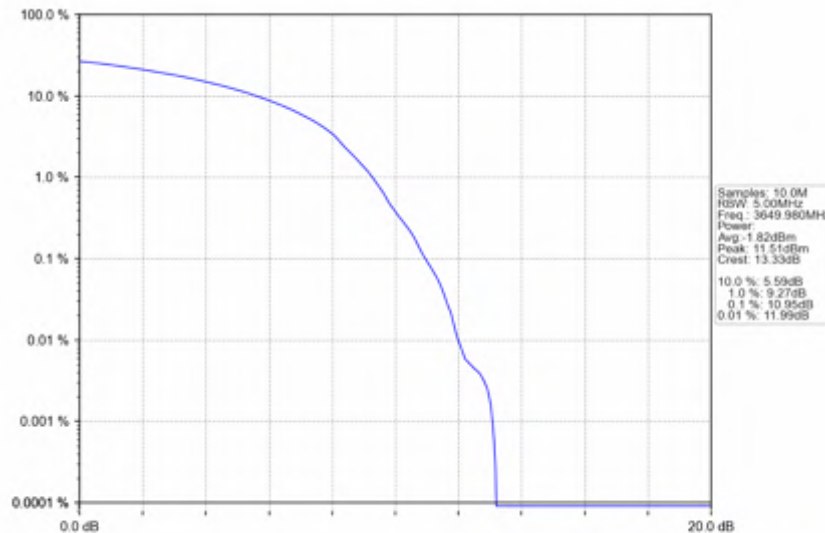
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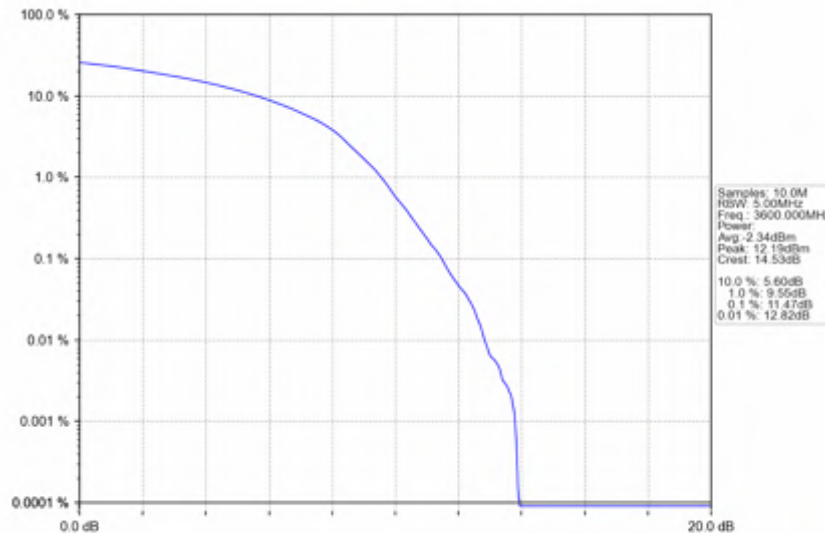
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n78d_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM QPSK_3600MHz_Outer_Full



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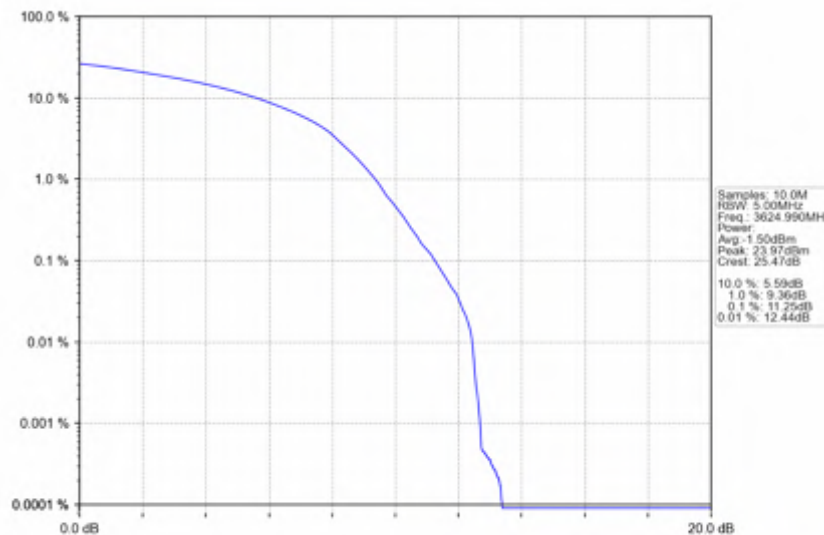
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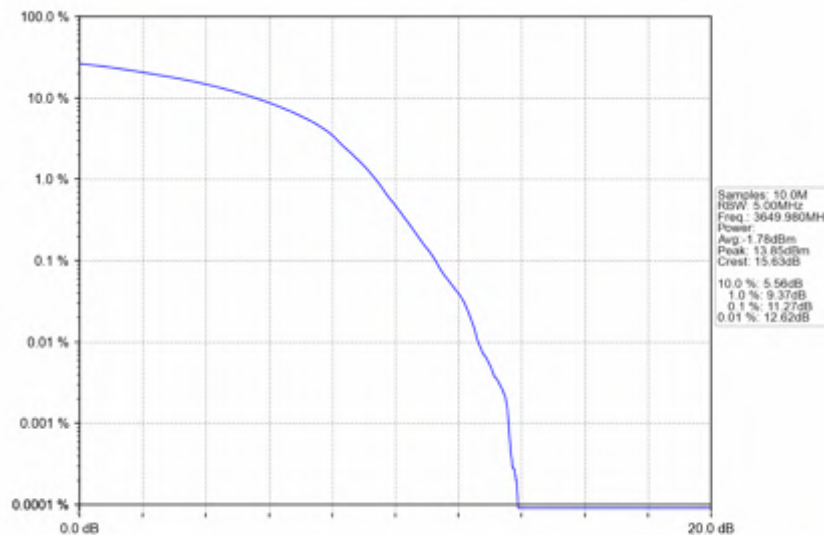
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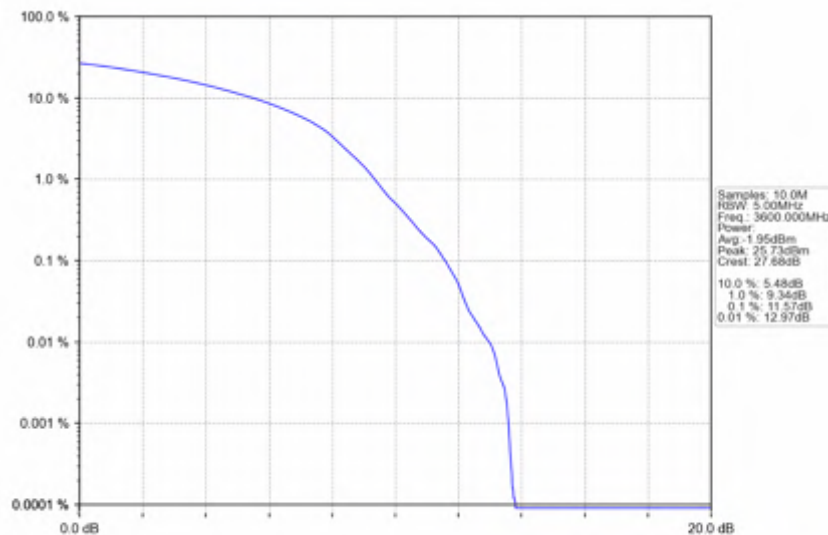
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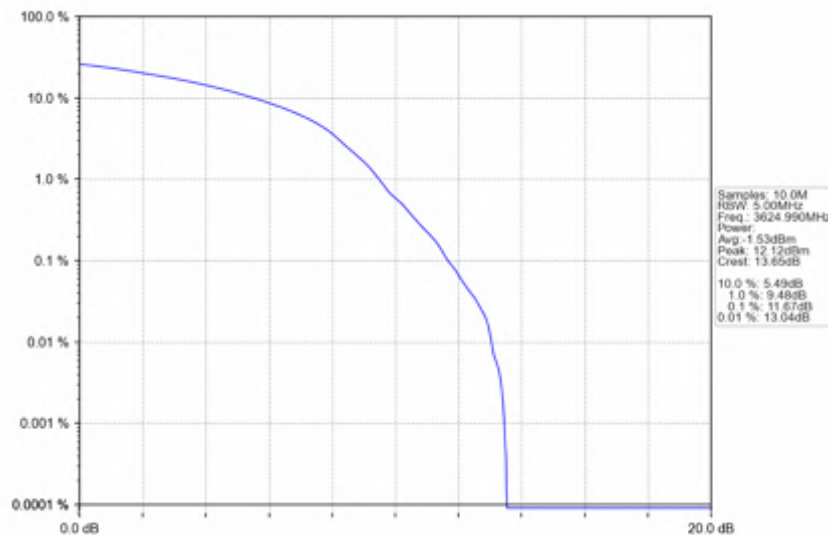
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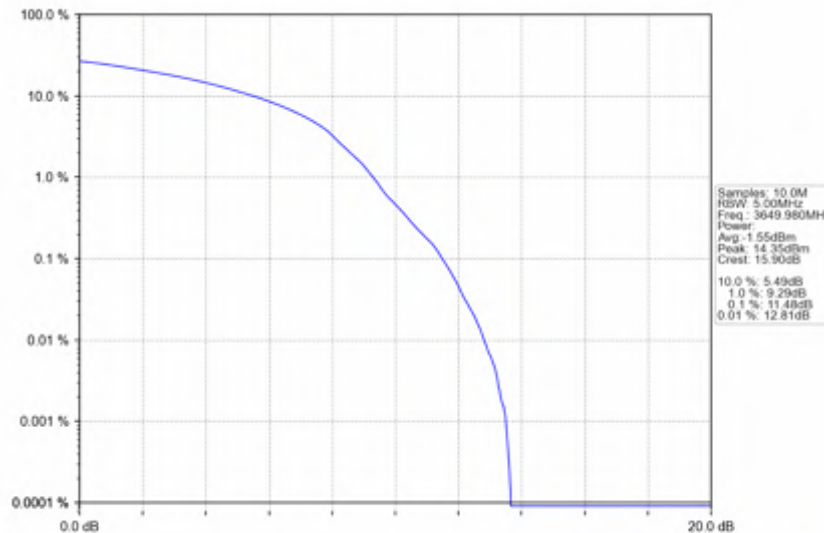
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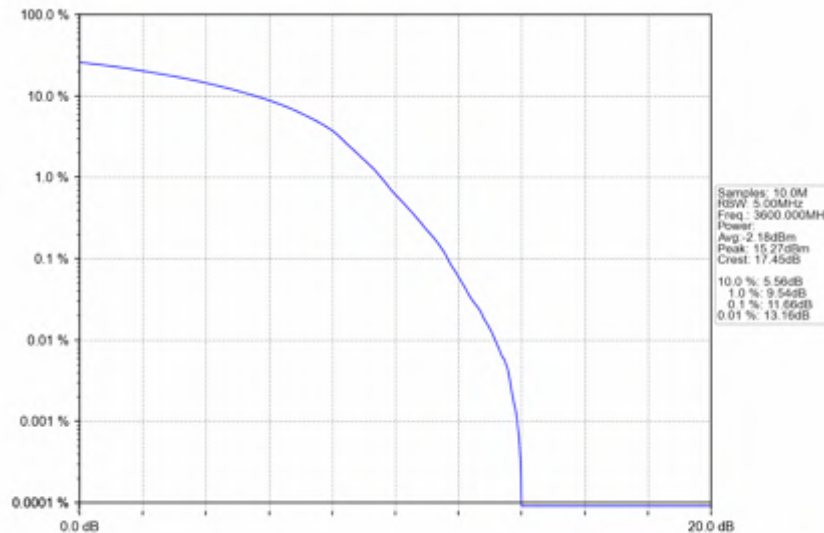
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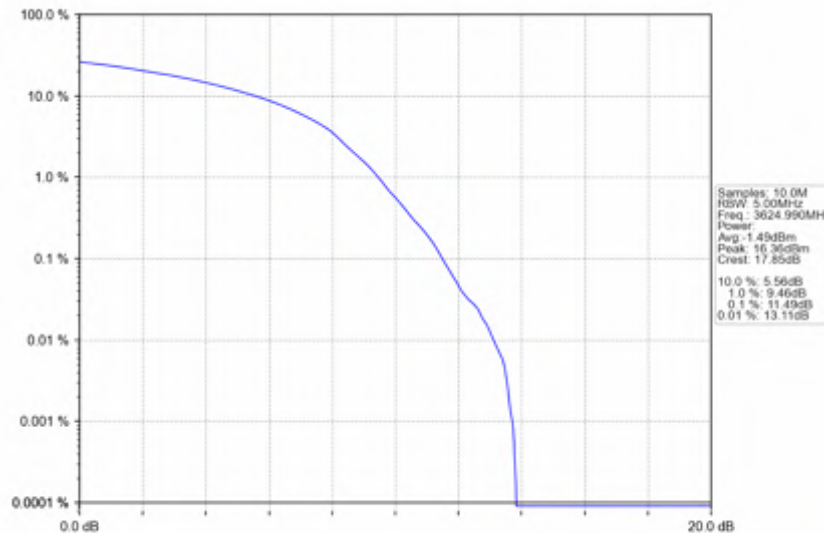


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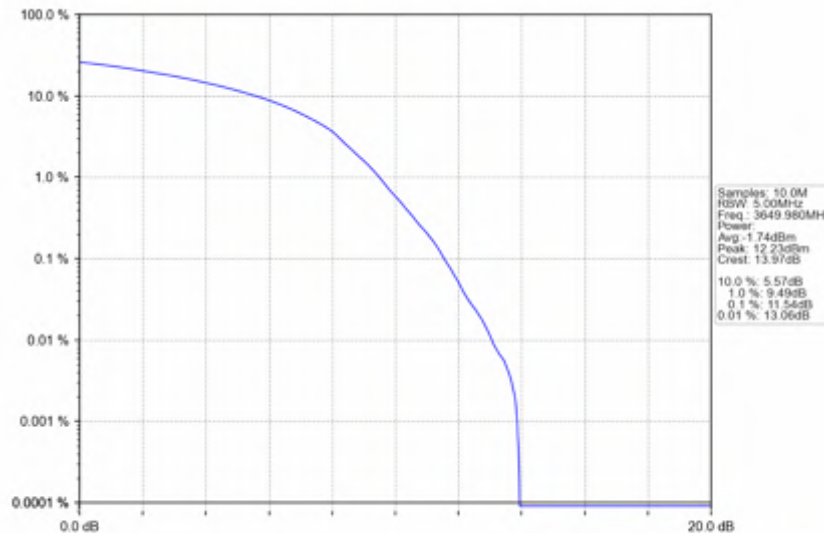
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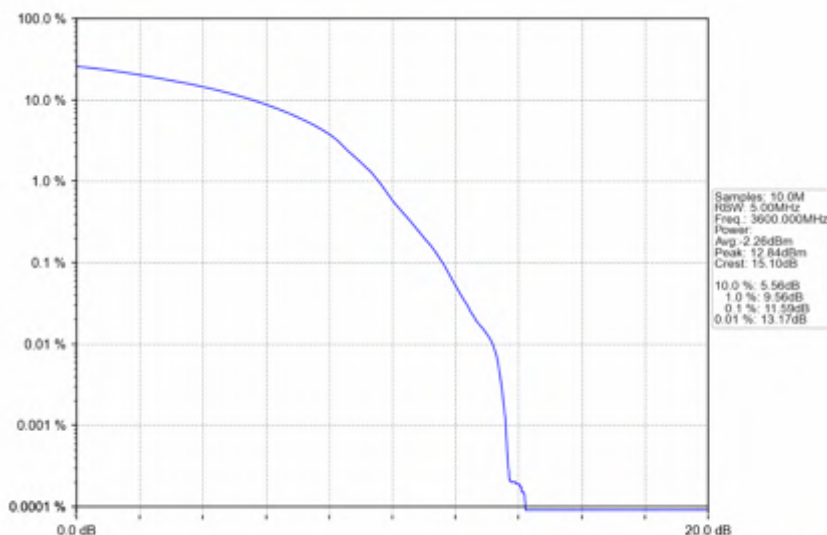


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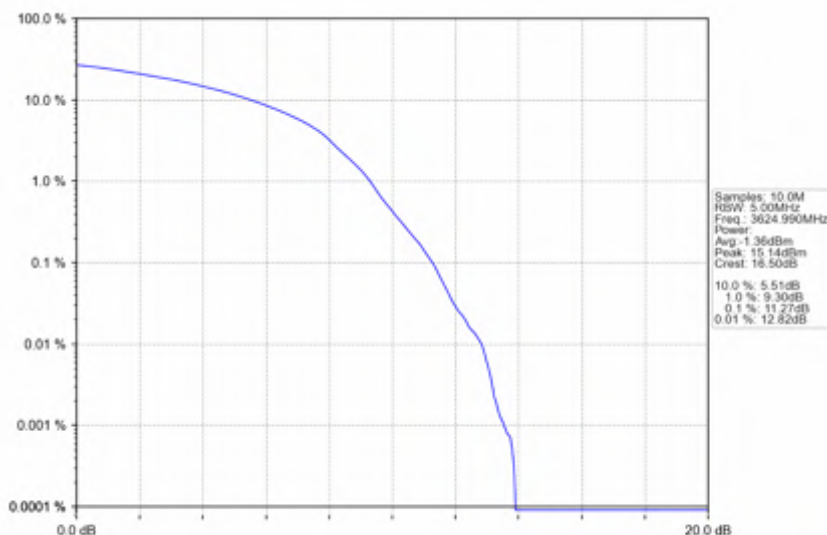
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n78d	30kHz	SISO	NTNV	100MHz	DFT-s-OFDM	256	QAM	3624.99MHz	Outer	Full
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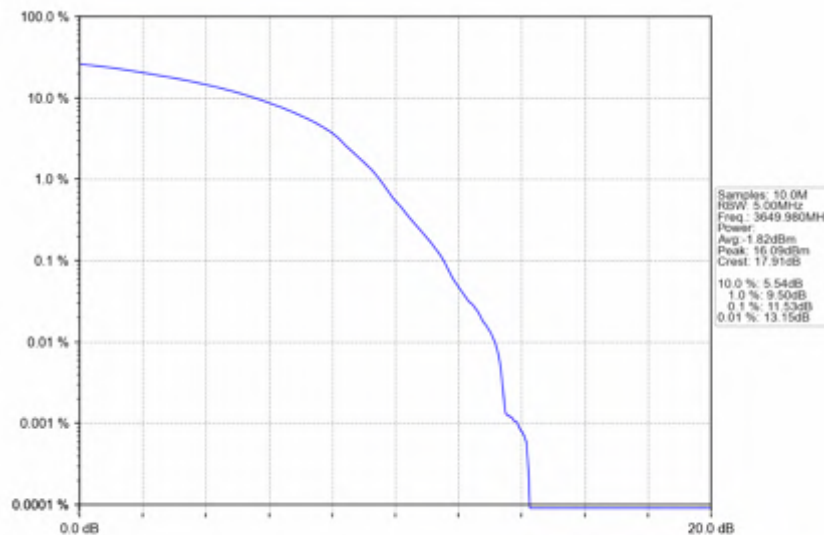


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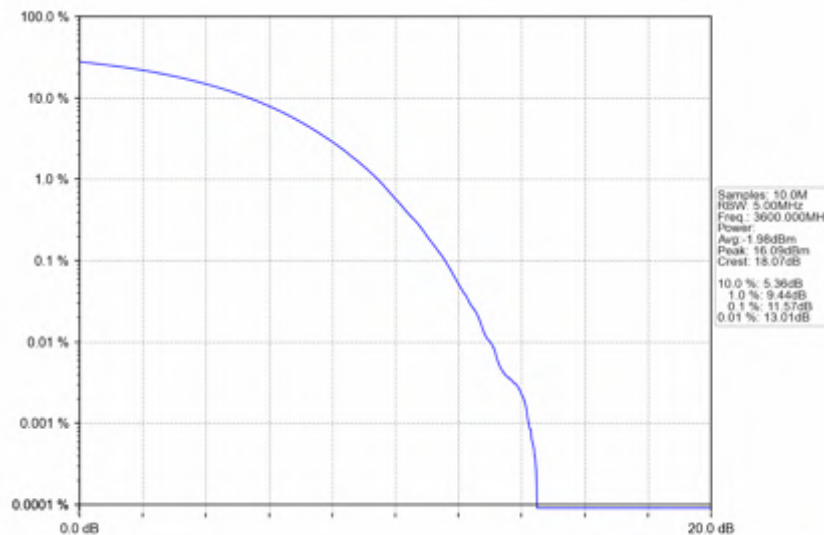
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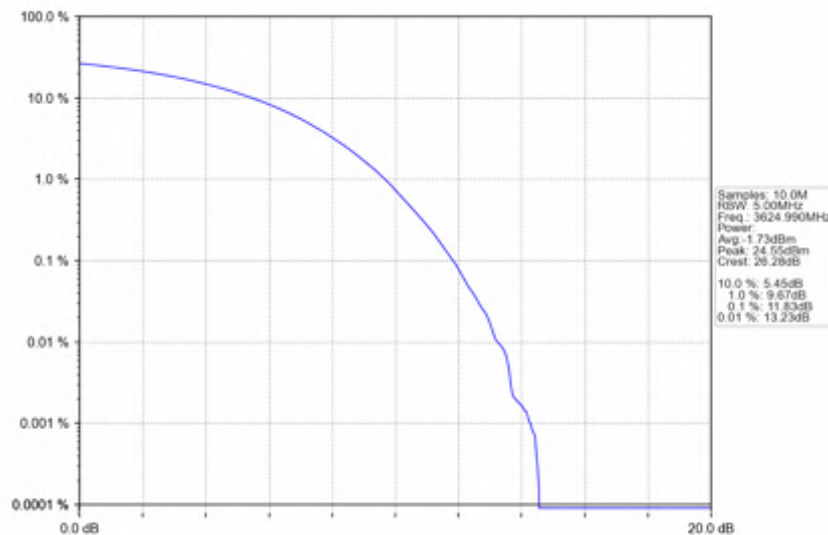


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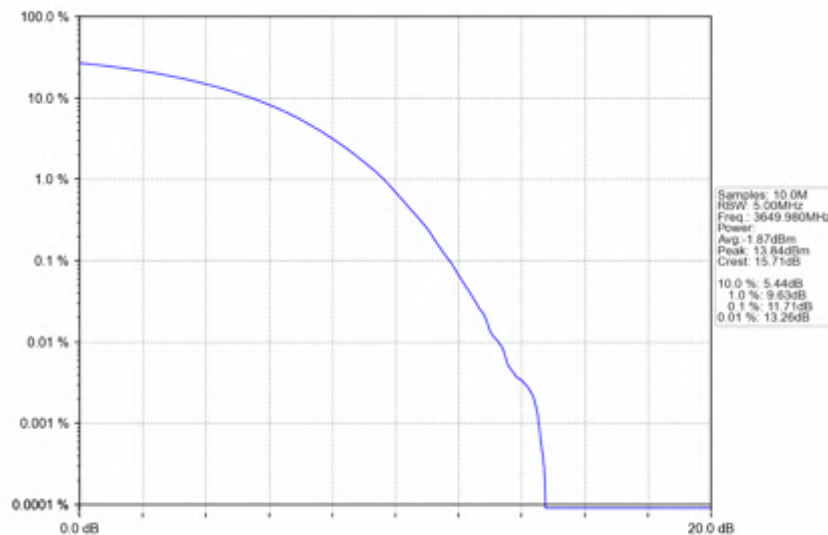
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n78d_30kHz_SISO_NTNV_100MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full



n78d_30kHz_SISO_NTNV_100MHz_CP-OFDM QPSK_3649.98MHz_Outer_Full

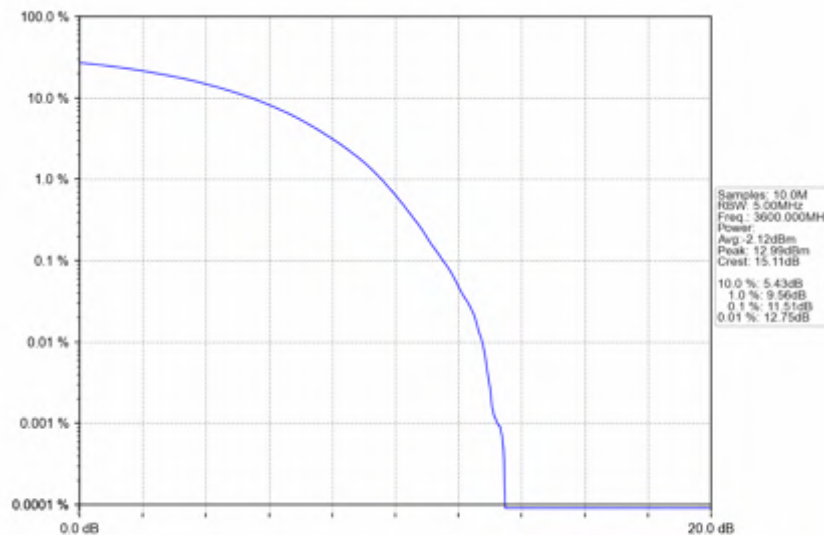


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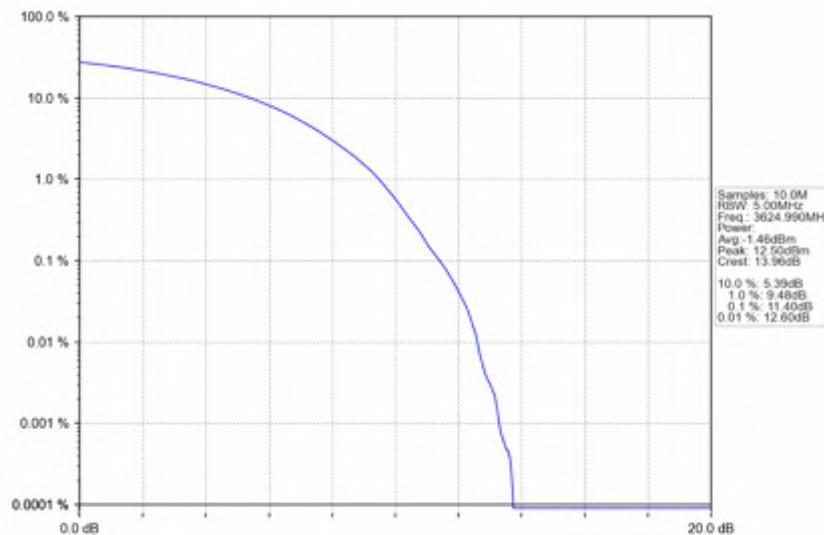
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n78d_30kHz_SISO_NTNV_100MHz_CP-OFDM_16_QAM_3600MHz_Outer_Full



n78d_30kHz_SISO_NTNV_100MHz_CP-OFDM_16_QAM_3624.99MHz_Outer_Full



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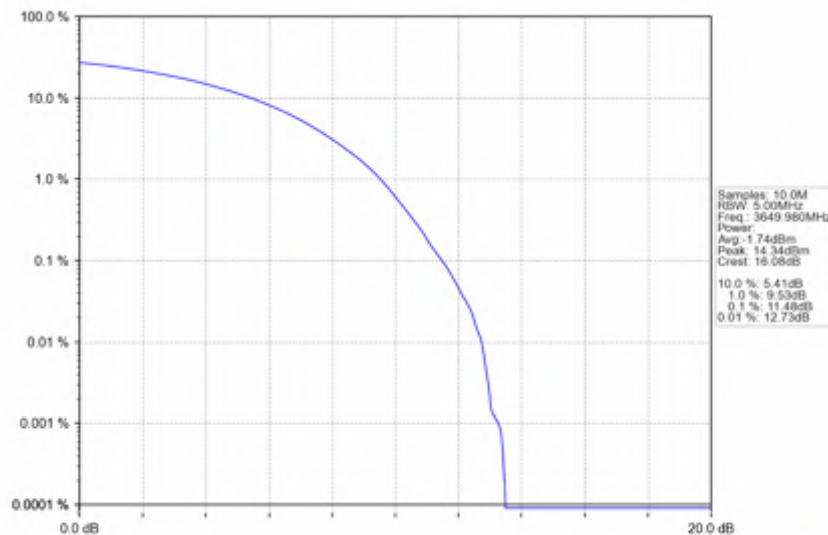
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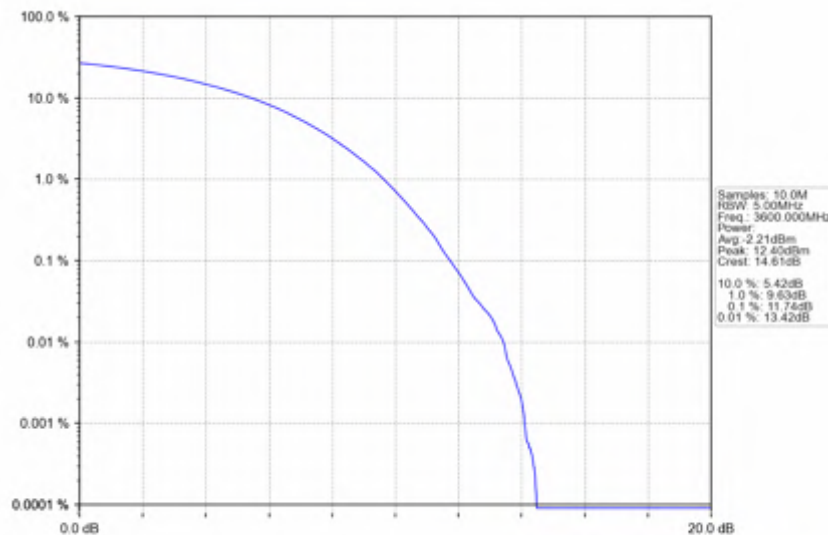
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n78d_30kHz_SISO_NTNV_100MHz_CP-OFDM 64 QAM_3600MHz_Outer_Full



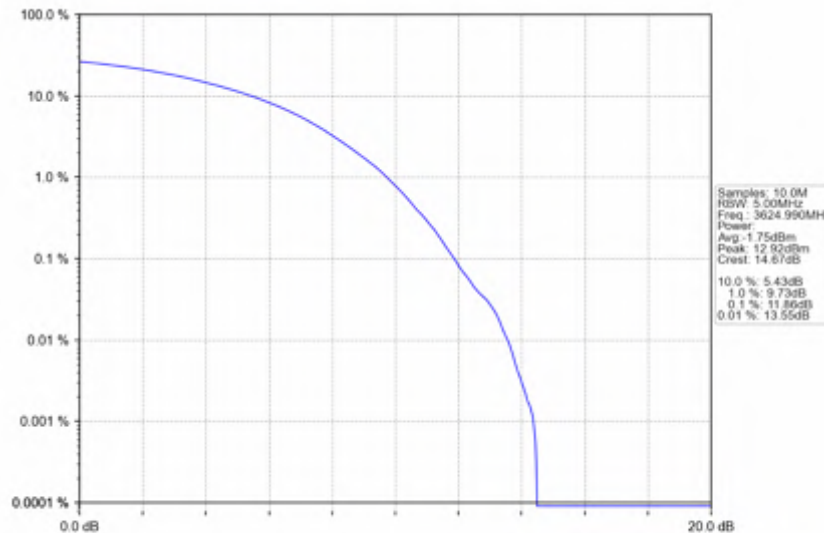
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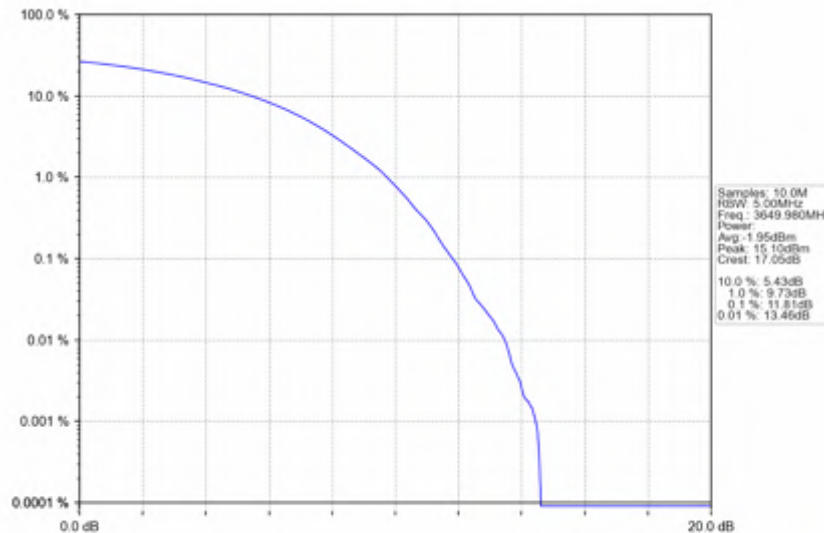
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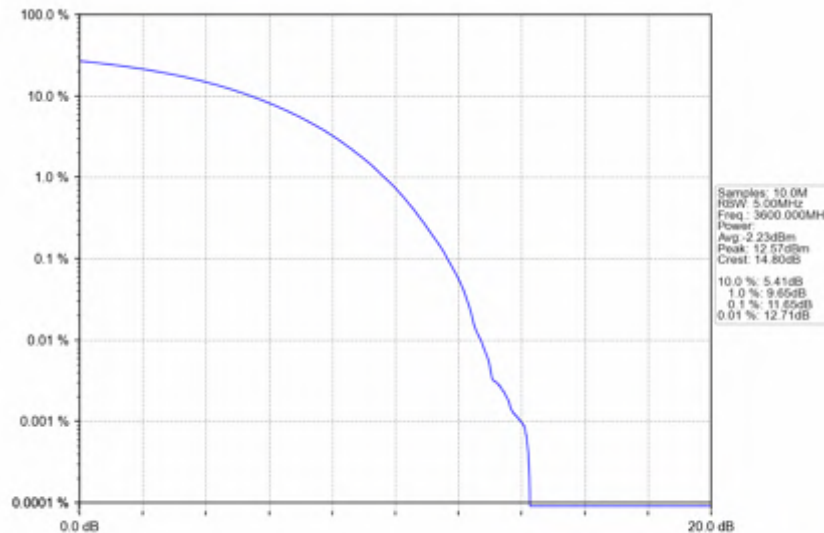


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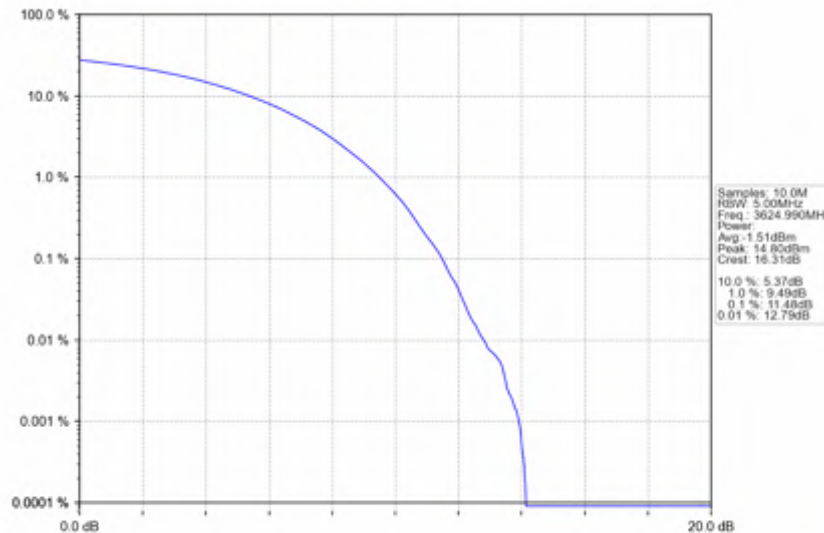
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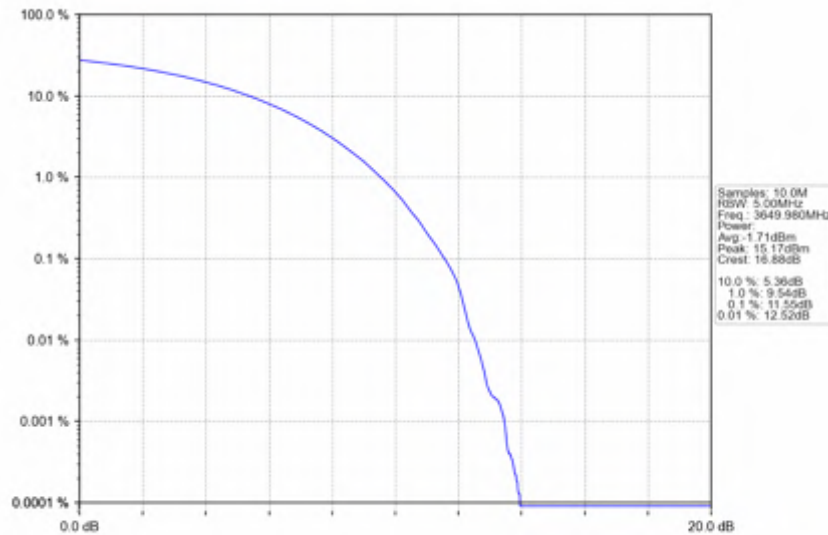
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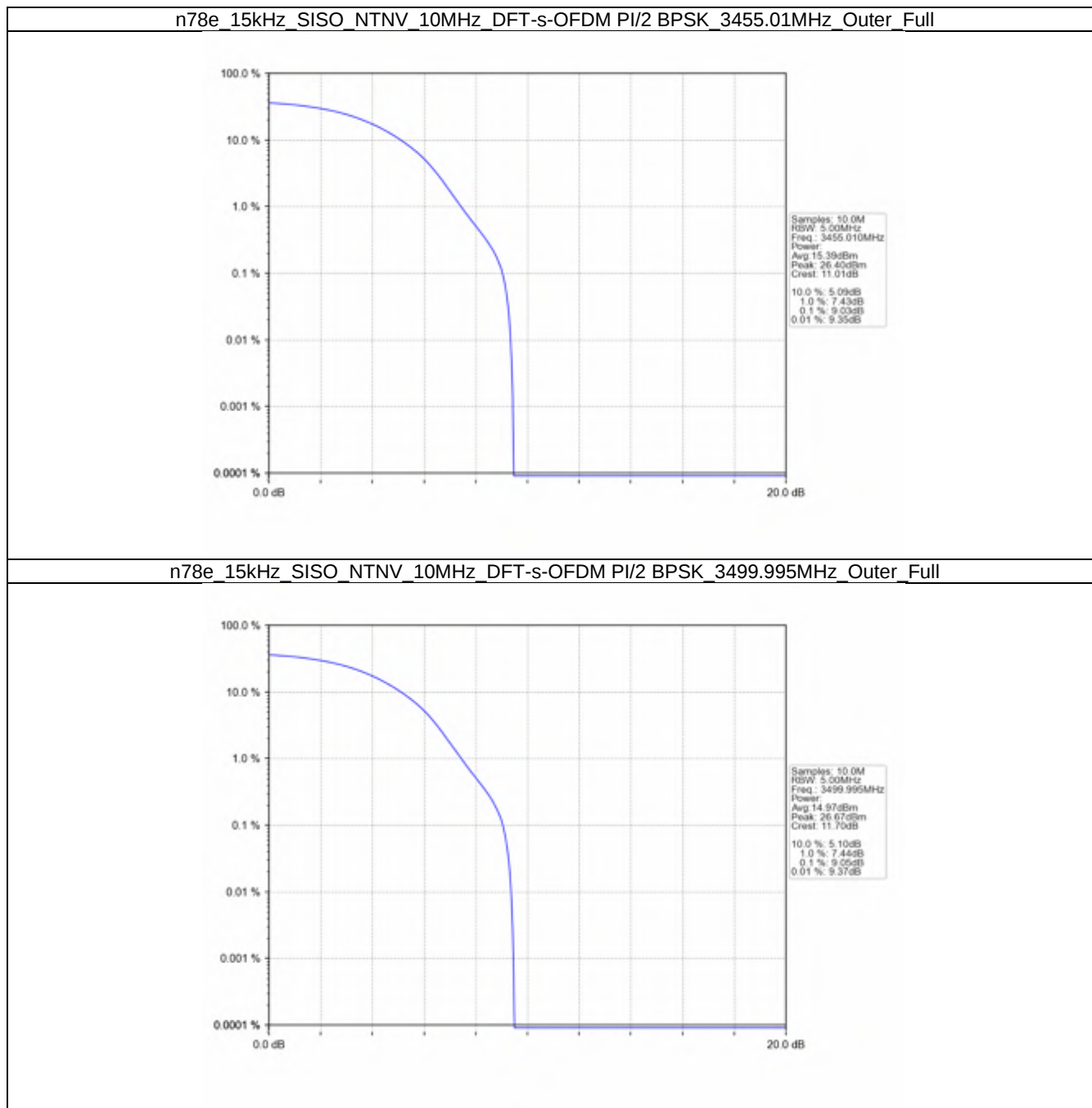
9. n78e Peak-Average Ratio

9.1 15k_SISO_10MHz_NTNV

9.1.1 Test Result

5G NR n78e SCS=15kHz SISO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3455.01	Outer_Full	9.03	/	/	<=13	Pass
	3499.995	Outer_Full	9.05	/	/	<=13	Pass
	3544.995	Outer_Full	9.11	/	/	<=13	Pass
DFT-s-OFDM QPSK	3455.01	Outer_Full	9.08	/	/	<=13	Pass
	3499.995	Outer_Full	9.24	/	/	<=13	Pass
	3544.995	Outer_Full	9.29	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3455.01	Outer_Full	9.83	/	/	<=13	Pass
	3499.995	Outer_Full	10.11	/	/	<=13	Pass
	3544.995	Outer_Full	10.02	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3455.01	Outer_Full	10.28	/	/	<=13	Pass
	3499.995	Outer_Full	10.16	/	/	<=13	Pass
	3544.995	Outer_Full	11.33	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3455.01	Outer_Full	10.05	/	/	<=13	Pass
	3499.995	Outer_Full	10.45	/	/	<=13	Pass
	3544.995	Outer_Full	10.31	/	/	<=13	Pass
CP-OFDM QPSK	3455.01	Outer_Full	11.49	/	/	<=13	Pass
	3499.995	Outer_Full	11.65	/	/	<=13	Pass
	3544.995	Outer_Full	11.49	/	/	<=13	Pass
CP-OFDM 16 QAM	3455.01	Outer_Full	11.68	/	/	<=13	Pass
	3499.995	Outer_Full	11.70	/	/	<=13	Pass
	3544.995	Outer_Full	11.62	/	/	<=13	Pass
CP-OFDM 64 QAM	3455.01	Outer_Full	11.94	/	/	<=13	Pass
	3499.995	Outer_Full	11.64	/	/	<=13	Pass
	3544.995	Outer_Full	12.04	/	/	<=13	Pass
CP-OFDM 256 QAM	3455.01	Outer_Full	11.83	/	/	<=13	Pass
	3499.995	Outer_Full	11.79	/	/	<=13	Pass
	3544.995	Outer_Full	11.83	/	/	<=13	Pass

9.1.2 Test Graph



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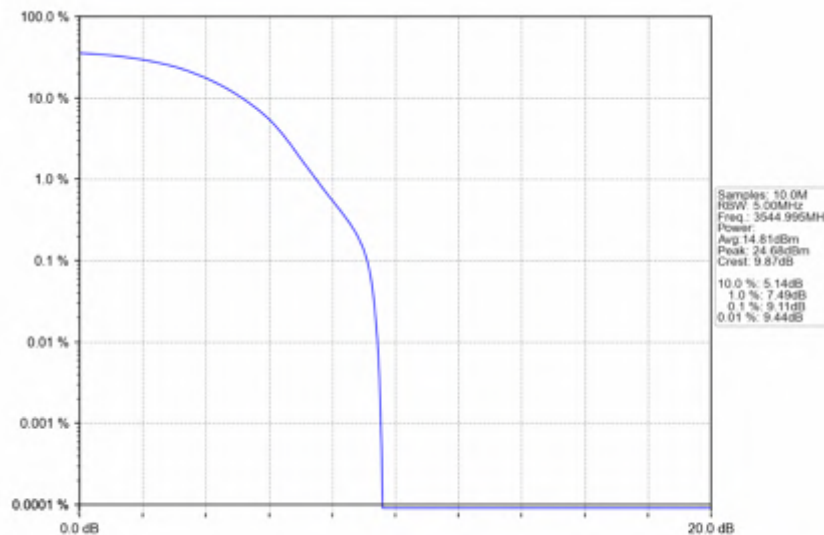
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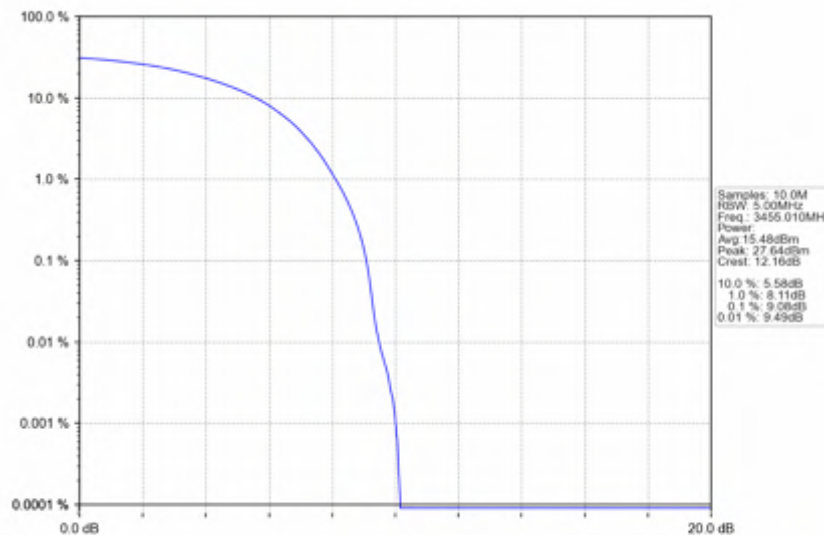
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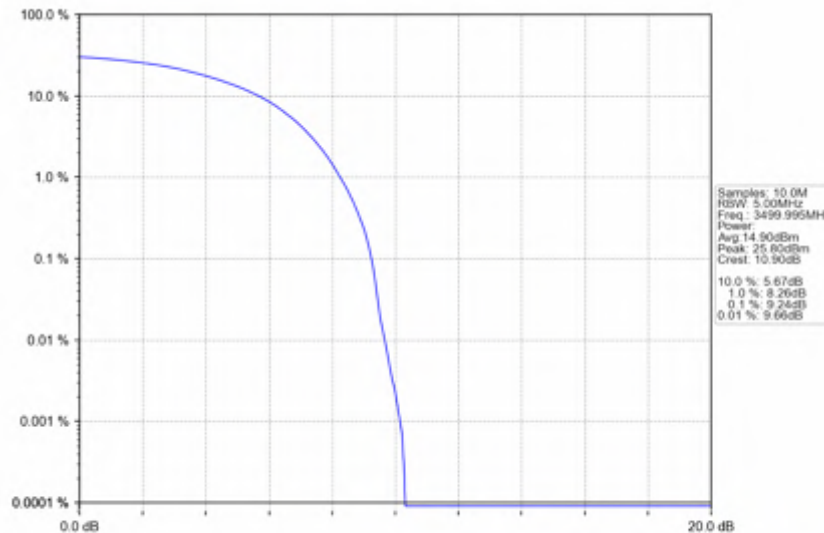
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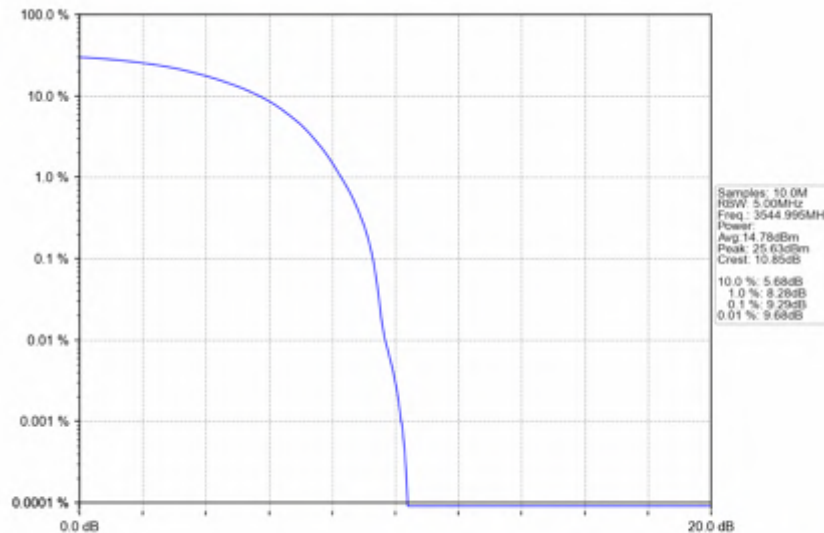
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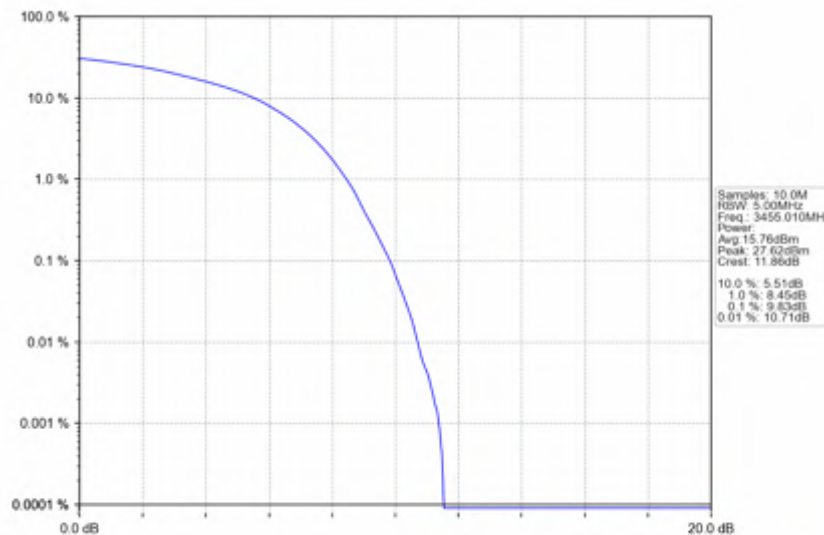


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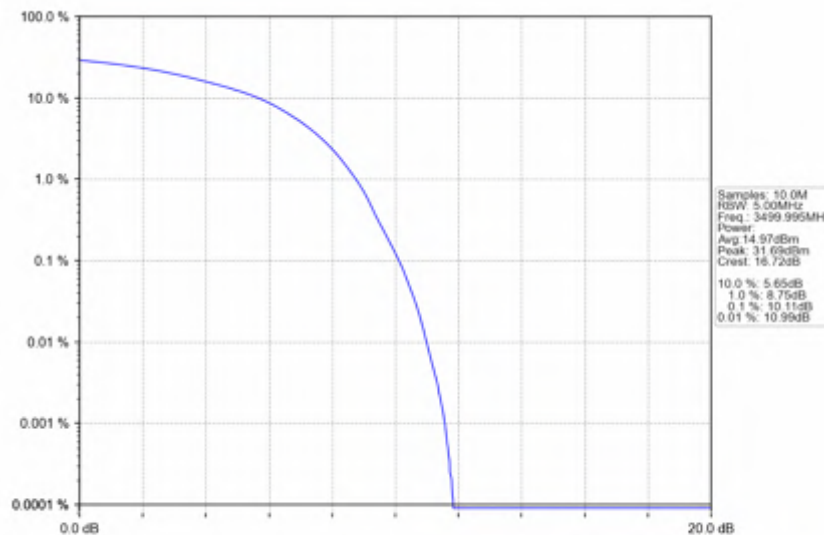
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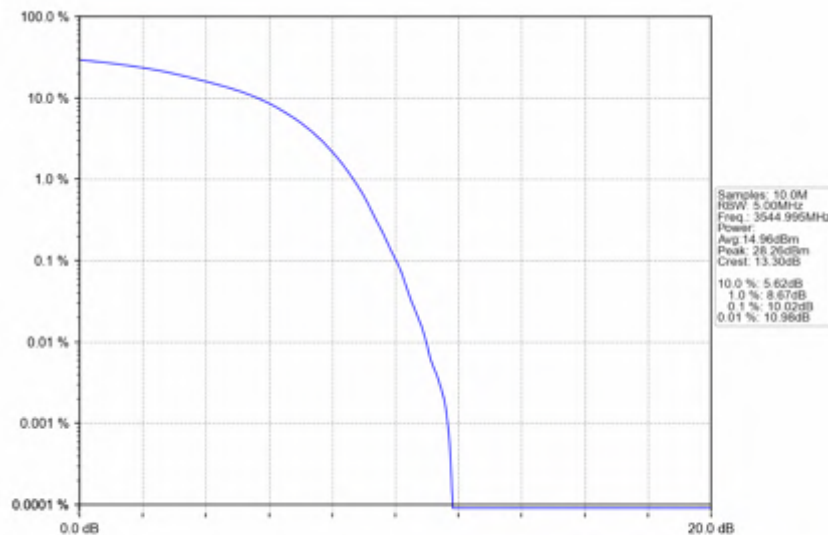


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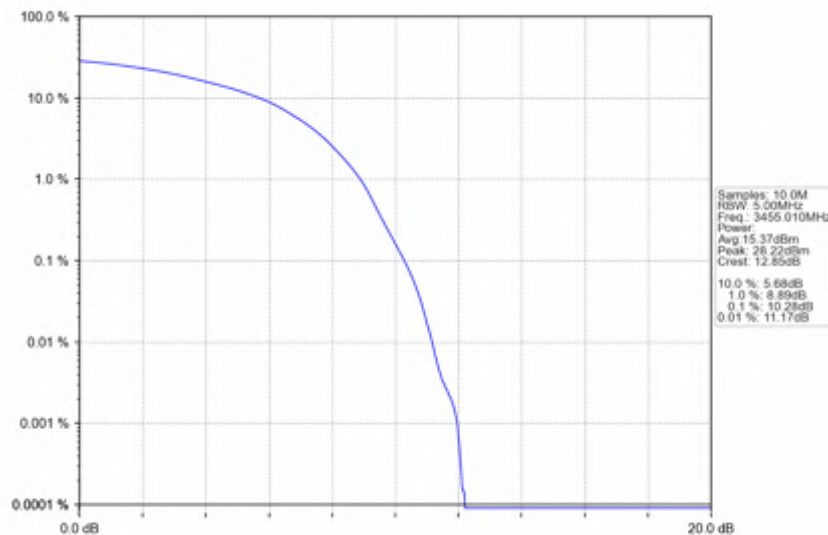
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n78e_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_3544.995MHz_Outer_Full



n78e_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_3455.01MHz_Outer_Full



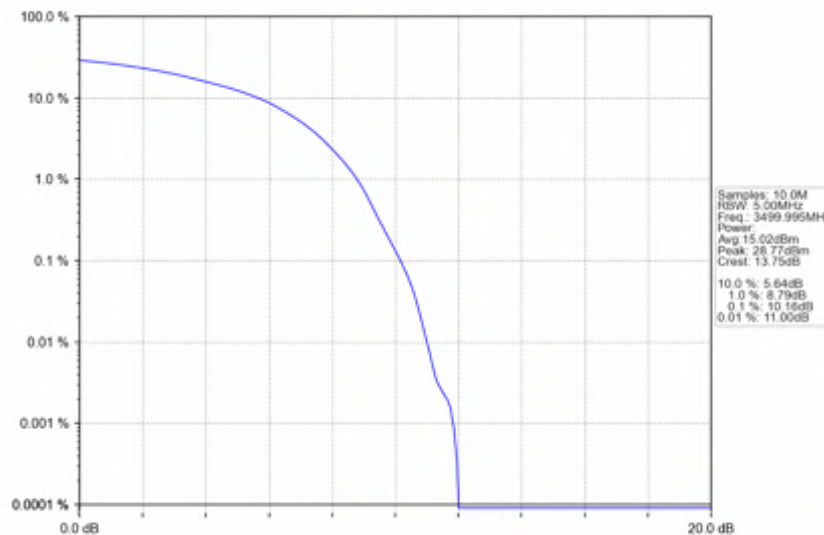
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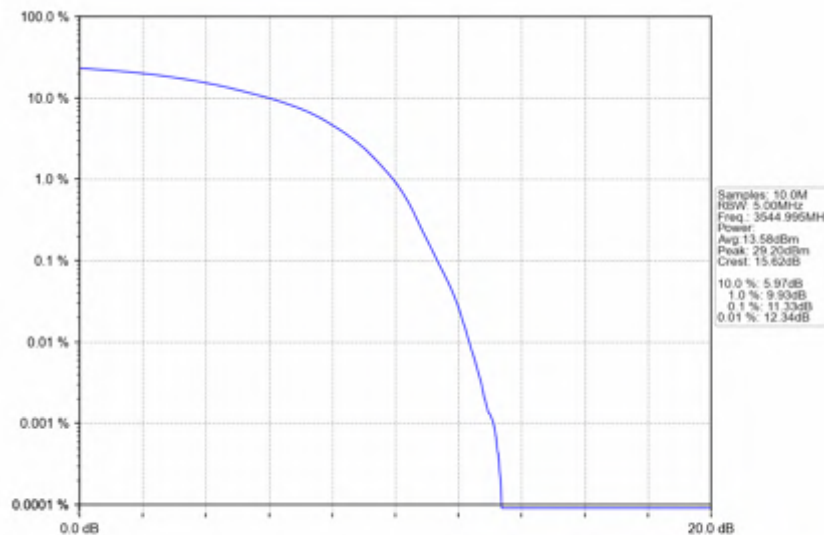
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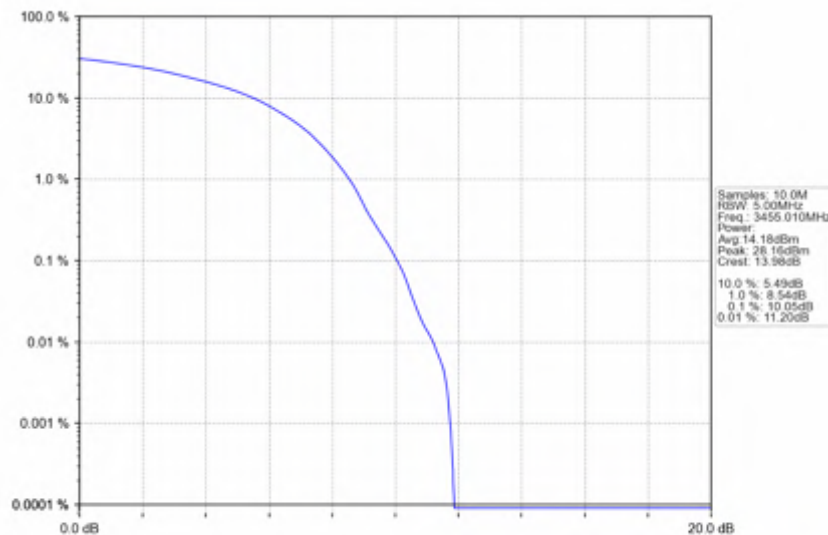


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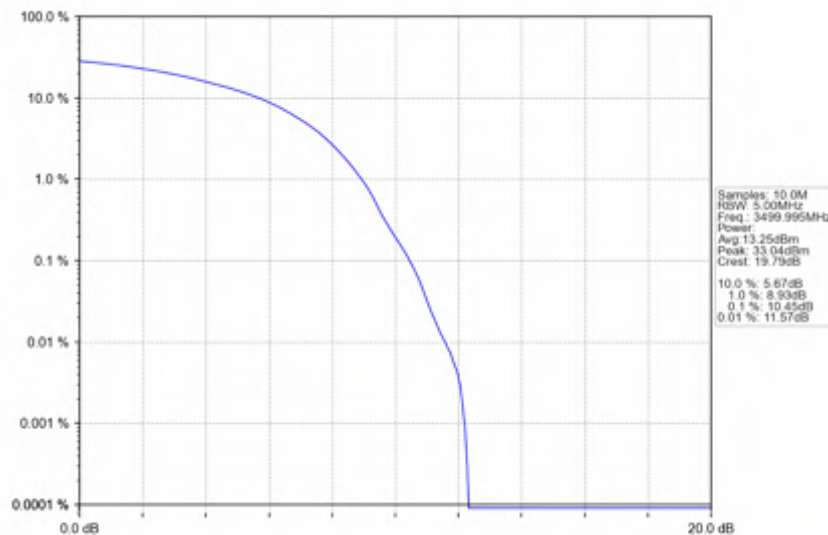
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n78e_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_3455.01MHz_Outer_Full



n78e_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_3499.995MHz_Outer_Full



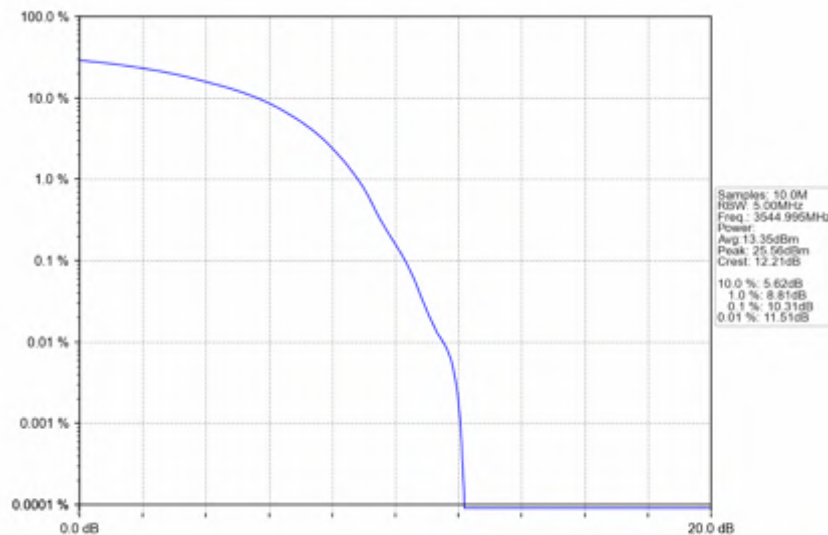
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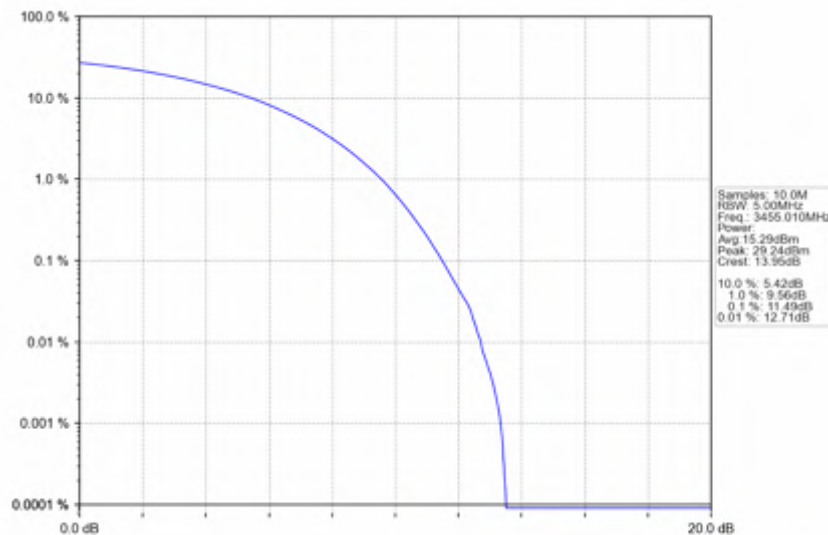
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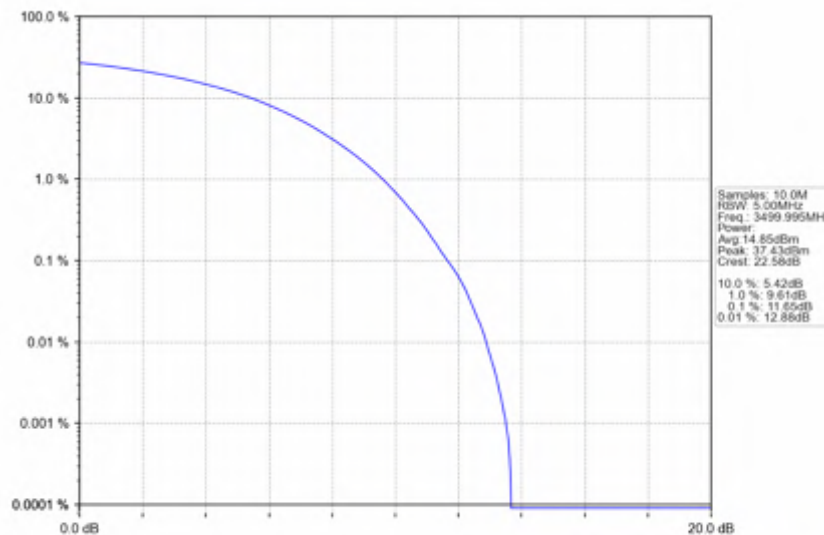


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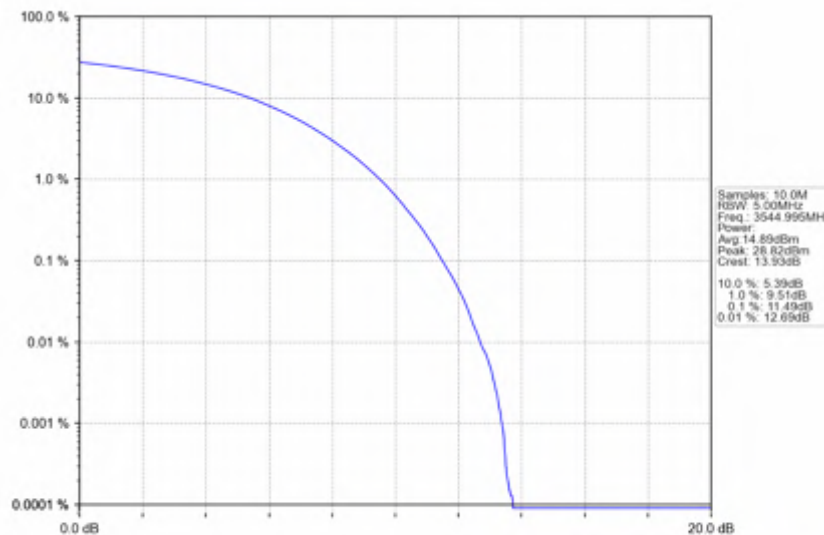
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n78e_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3499.995MHz_Outer_Full



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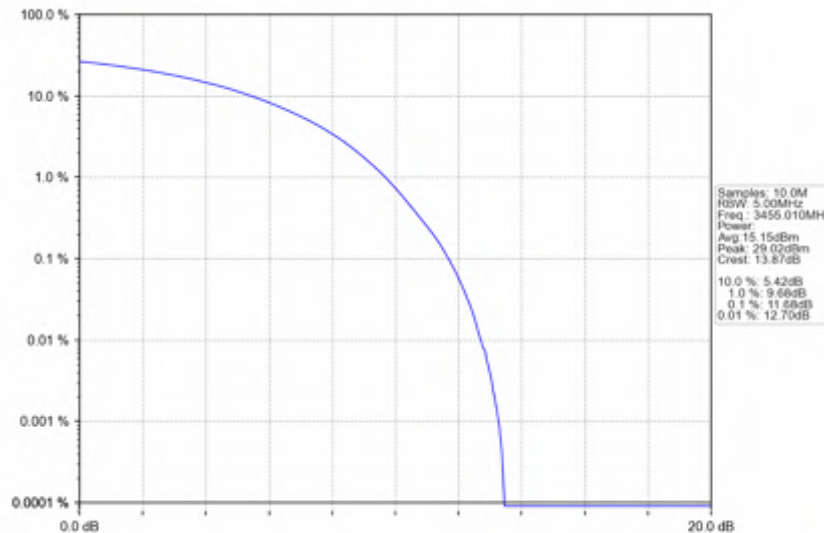
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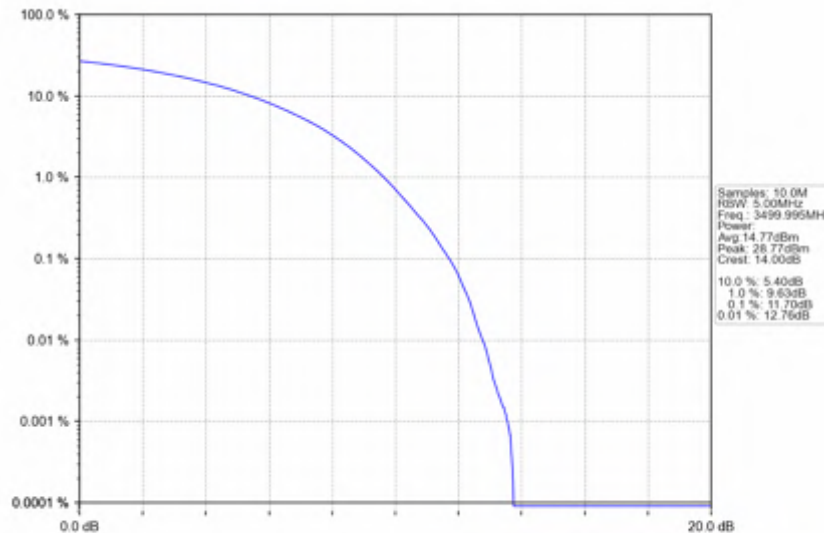
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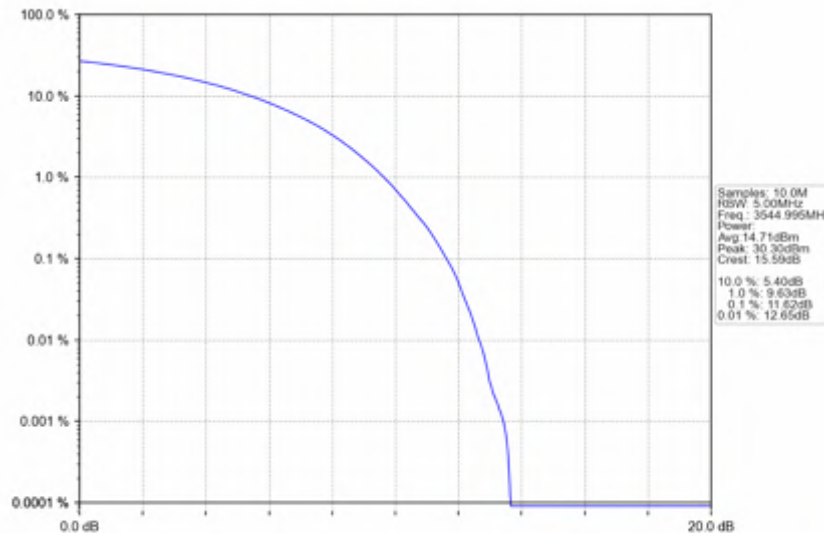
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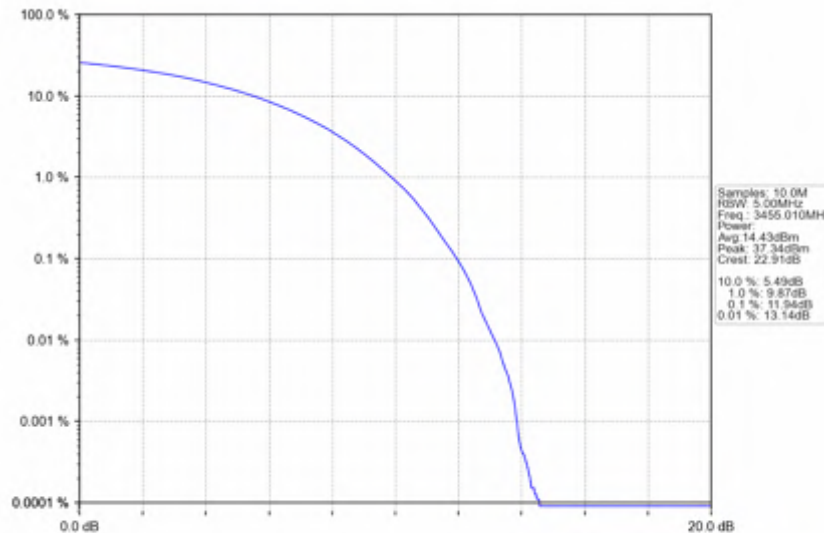
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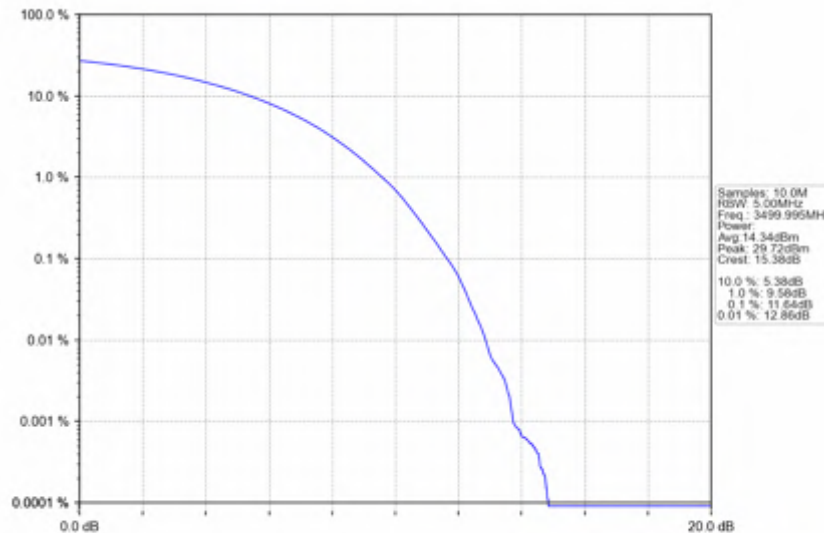


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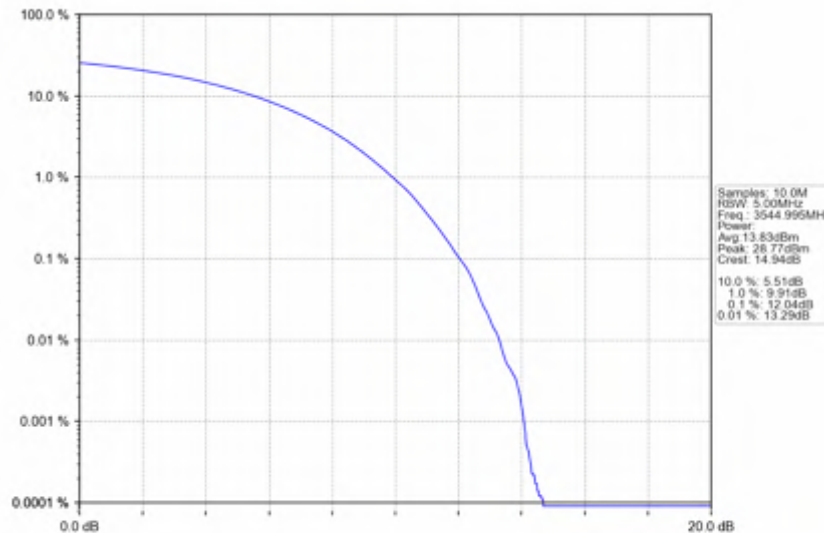
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n78e_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_3544.995MHz_Outer_Full

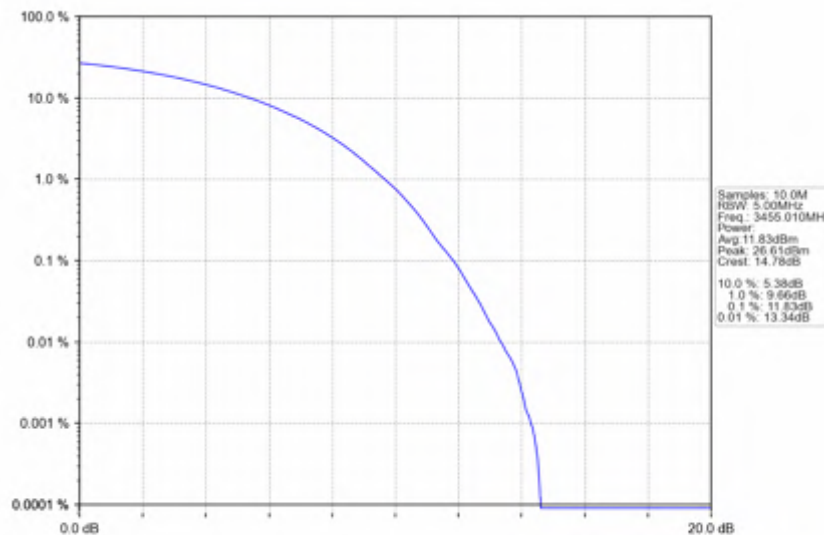


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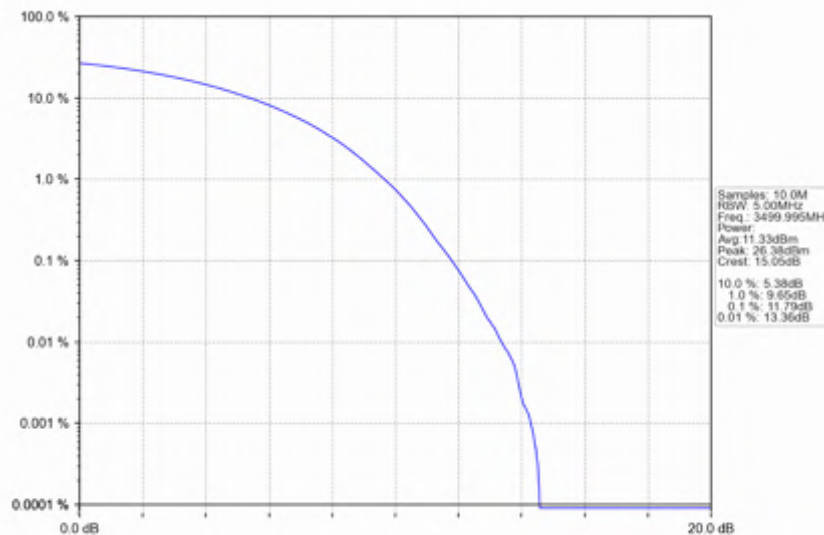
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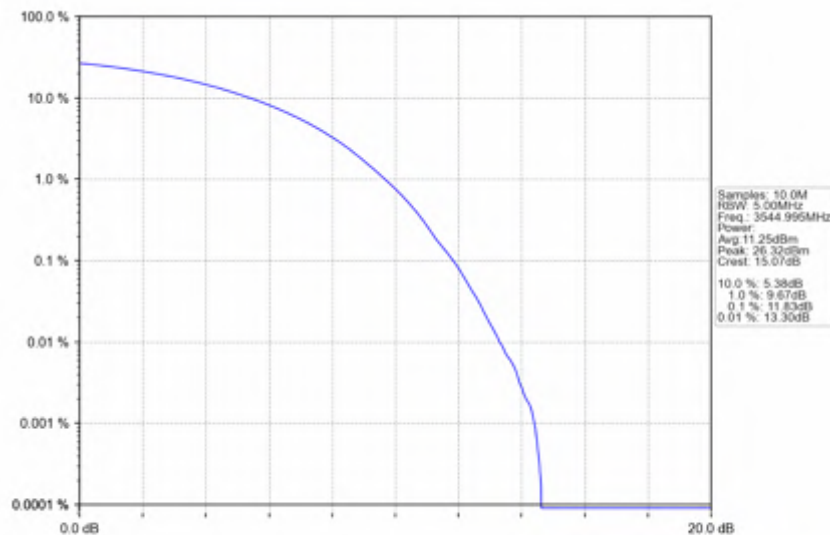
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9.2 15k_SISO_15MHz_NTNV

9.2.1 Test Result

5G NR n78e 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	3457.5	Outer_Full	9.93	/	/	<=13	Pass
	3499.995	Outer_Full	9.89	/	/	<=13	Pass
	3542.49	Outer_Full	9.89	/	/	<=13	Pass
DFT-s-OFDM QPSK	3457.5	Outer_Full	10.07	/	/	<=13	Pass
	3499.995	Outer_Full	10.01	/	/	<=13	Pass
	3542.49	Outer_Full	10.06	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3457.5	Outer_Full	10.14	/	/	<=13	Pass
	3499.995	Outer_Full	10.82	/	/	<=13	Pass
	3542.49	Outer_Full	10.52	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3457.5	Outer_Full	11.26	/	/	<=13	Pass
	3499.995	Outer_Full	10.66	/	/	<=13	Pass
	3542.49	Outer_Full	10.69	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3457.5	Outer_Full	10.49	/	/	<=13	Pass
	3499.995	Outer_Full	10.62	/	/	<=13	Pass
	3542.49	Outer_Full	10.52	/	/	<=13	Pass
CP-OFDM QPSK	3457.5	Outer_Full	11.34	/	/	<=13	Pass
	3499.995	Outer_Full	11.44	/	/	<=13	Pass
	3542.49	Outer_Full	11.33	/	/	<=13	Pass
CP-OFDM 16 QAM	3457.5	Outer_Full	11.57	/	/	<=13	Pass
	3499.995	Outer_Full	11.49	/	/	<=13	Pass
	3542.49	Outer_Full	11.47	/	/	<=13	Pass
CP-OFDM 64 QAM	3457.5	Outer_Full	11.42	/	/	<=13	Pass
	3499.995	Outer_Full	11.63	/	/	<=13	Pass
	3542.49	Outer_Full	11.58	/	/	<=13	Pass
CP-OFDM 256 QAM	3457.5	Outer_Full	11.84	/	/	<=13	Pass
	3499.995	Outer_Full	11.80	/	/	<=13	Pass
	3542.49	Outer_Full	11.83	/	/	<=13	Pass



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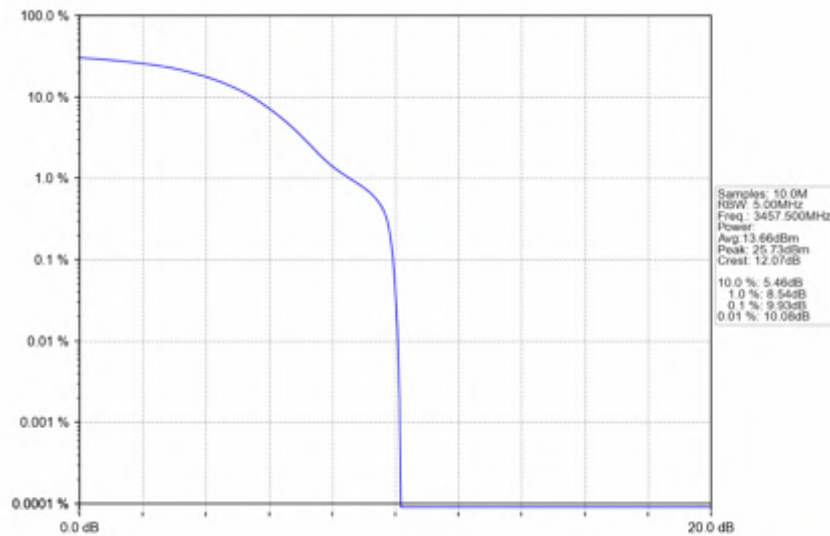
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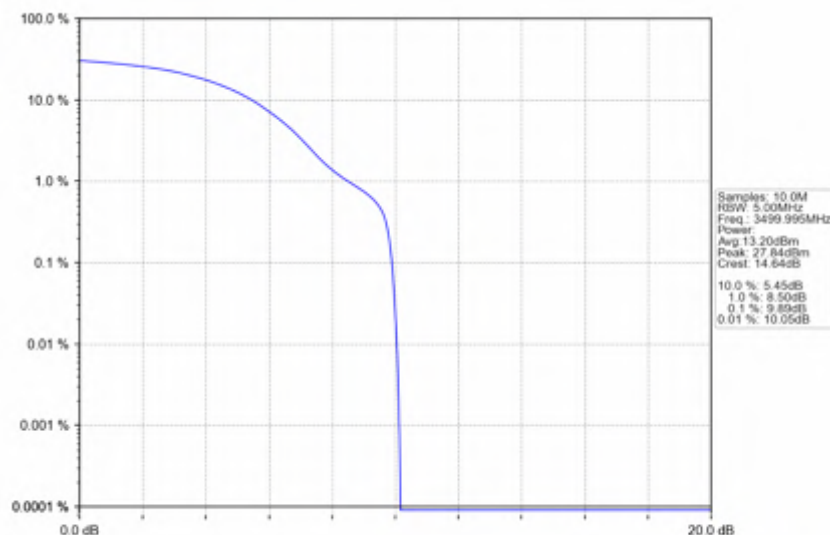
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9.2.2 Test Graph

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n78e_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_PI/2_BPSK_3499.995MHz_Outer_Full



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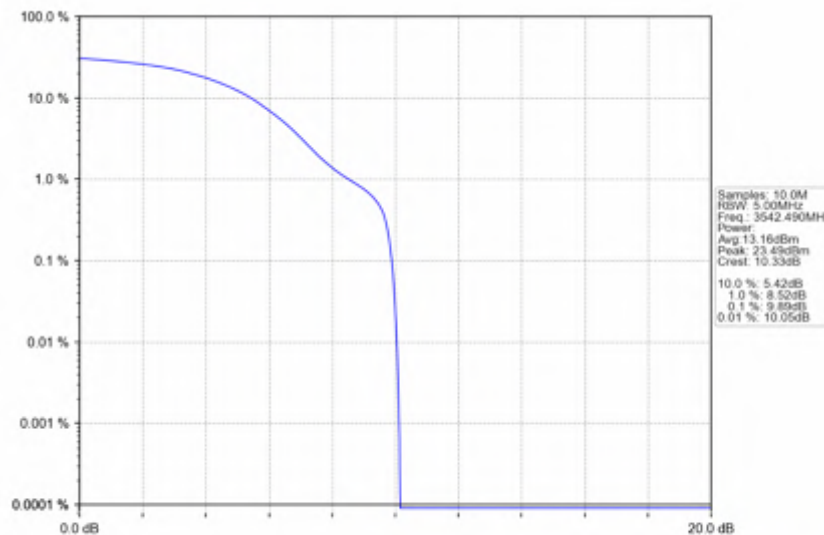
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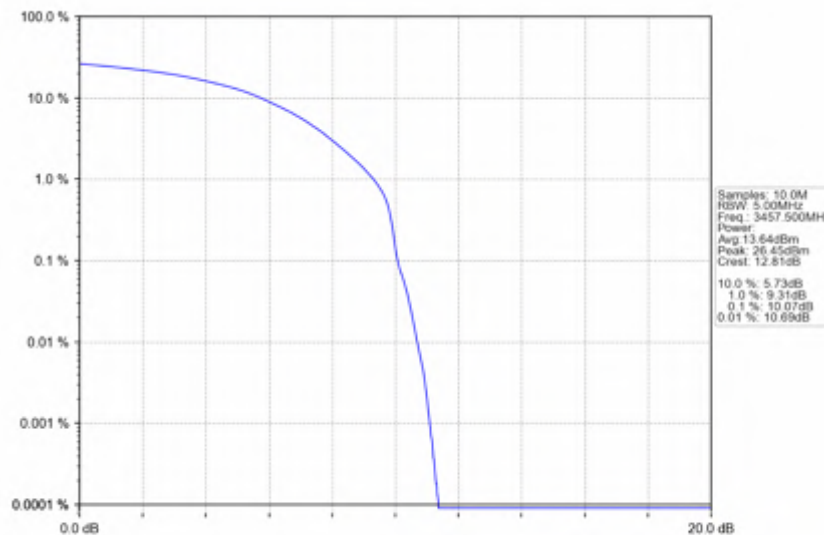
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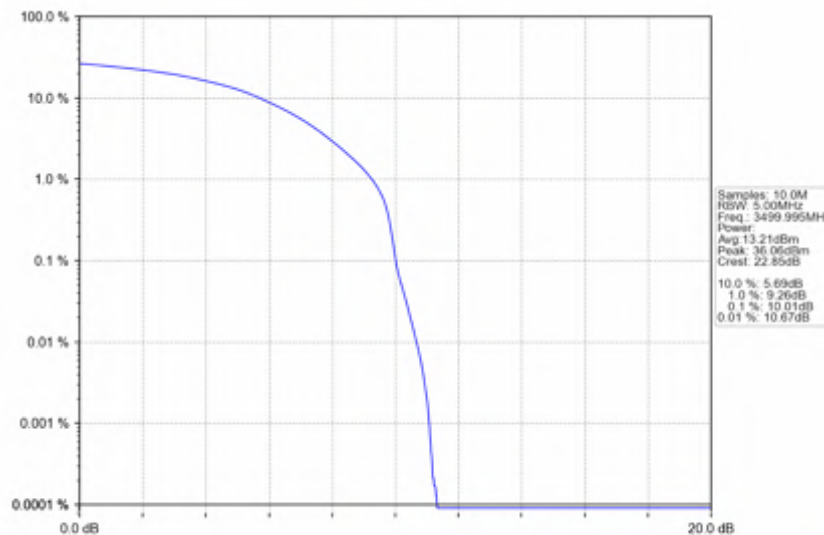


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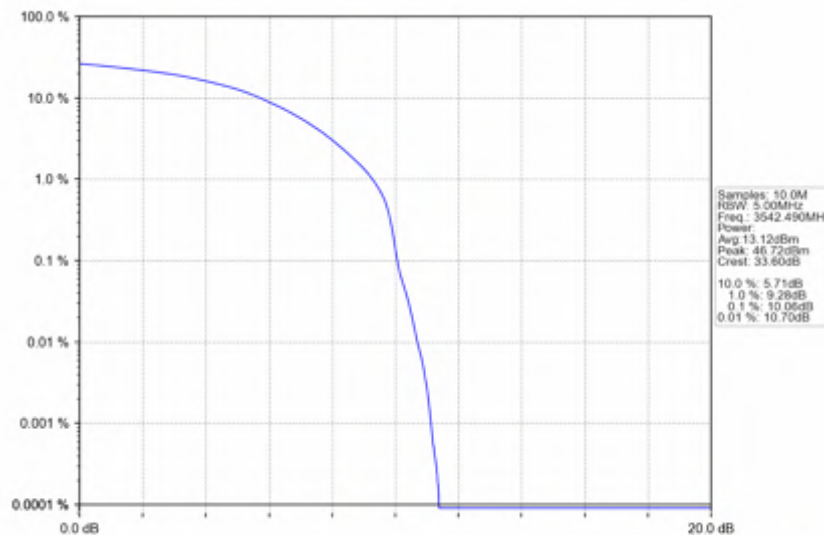
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n78e_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_3499.995MHz_Outer_Full



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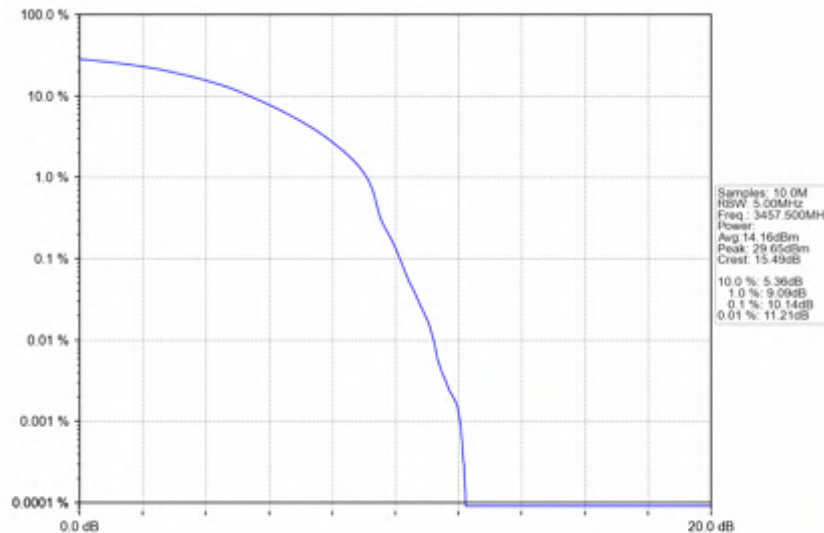


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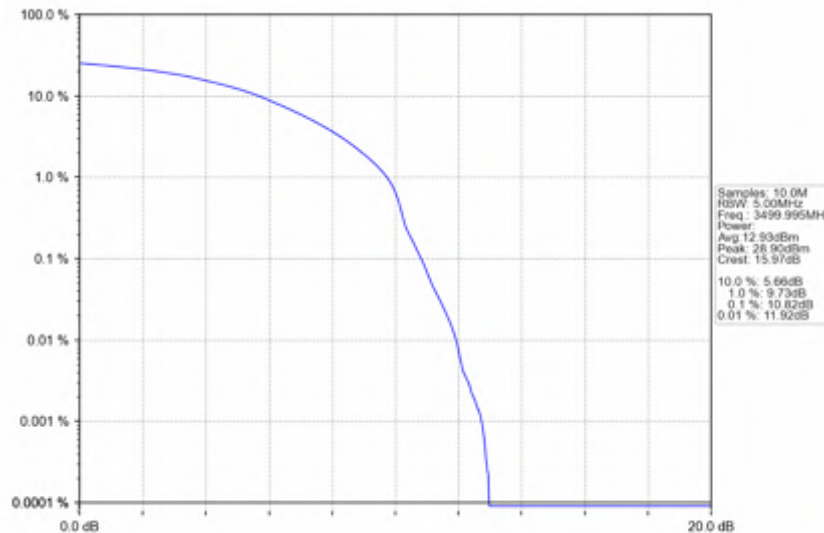
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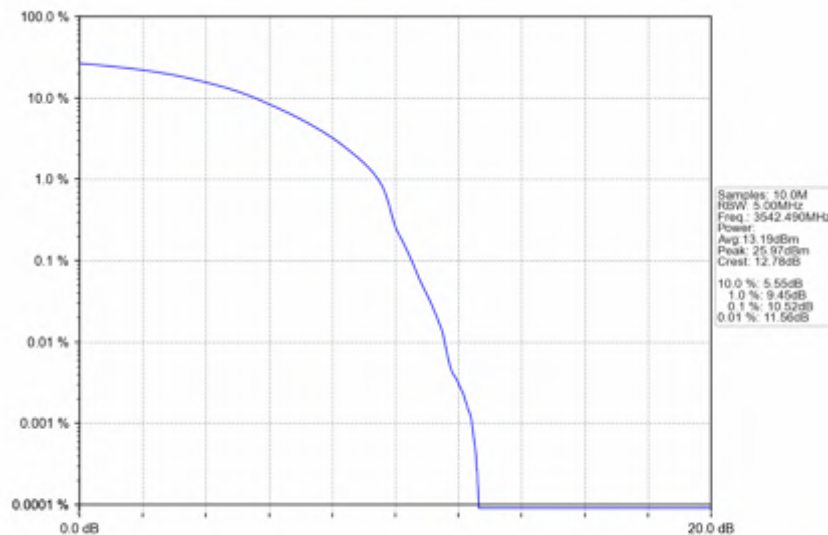
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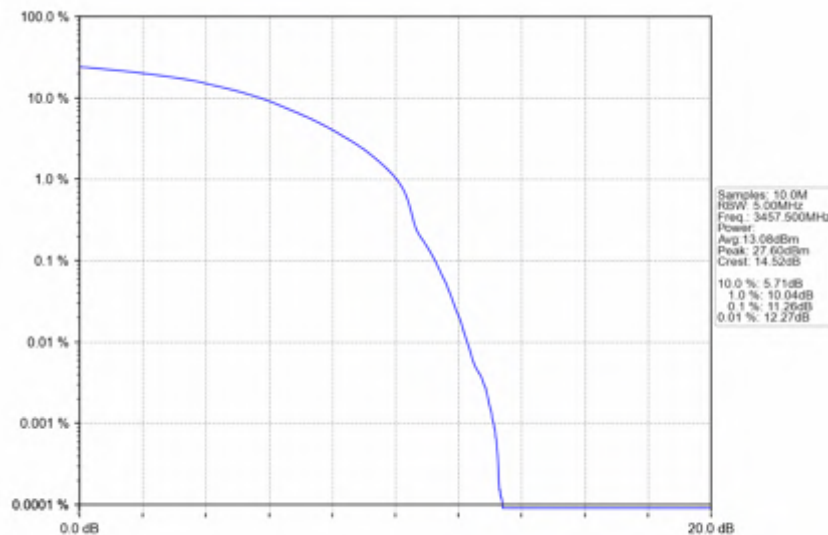
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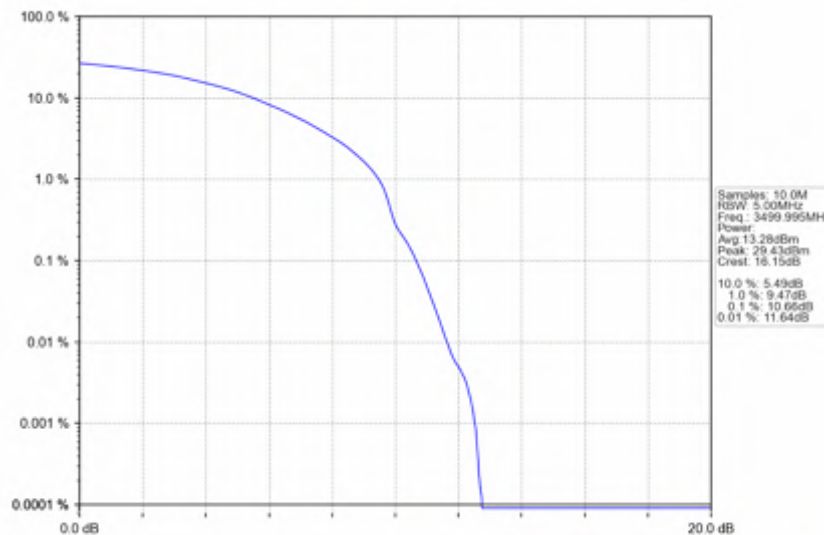


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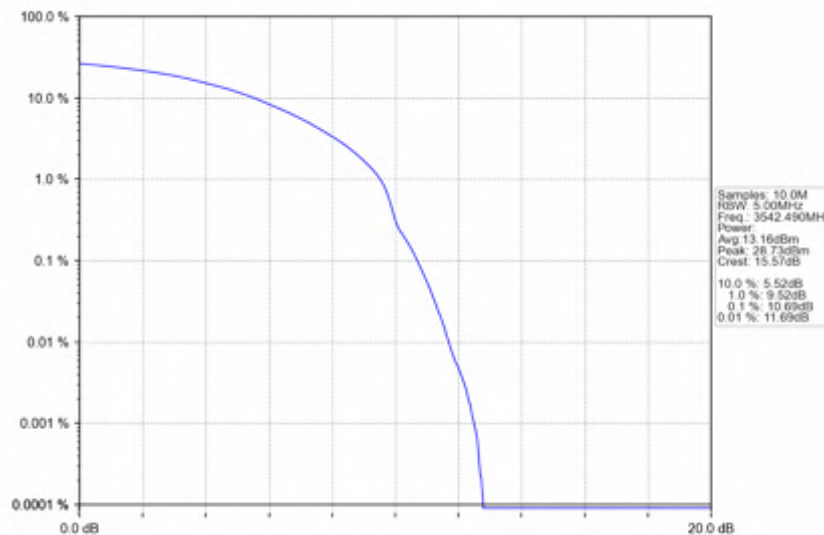
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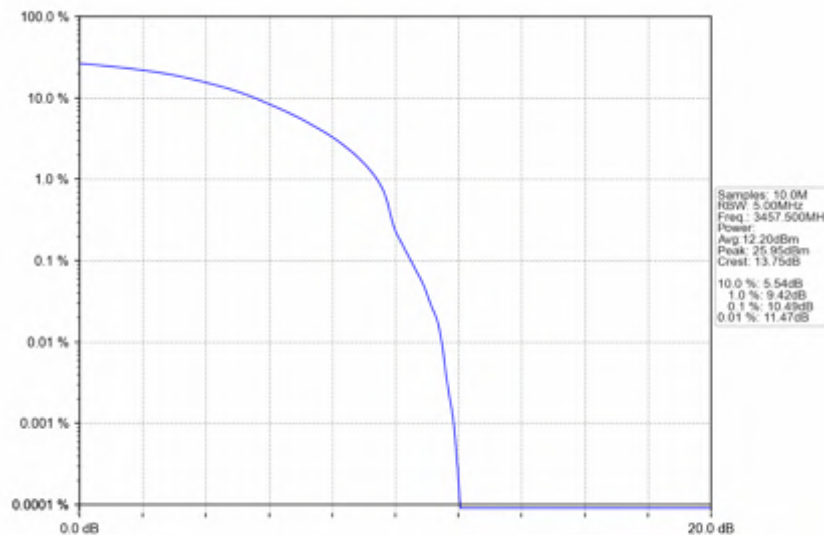
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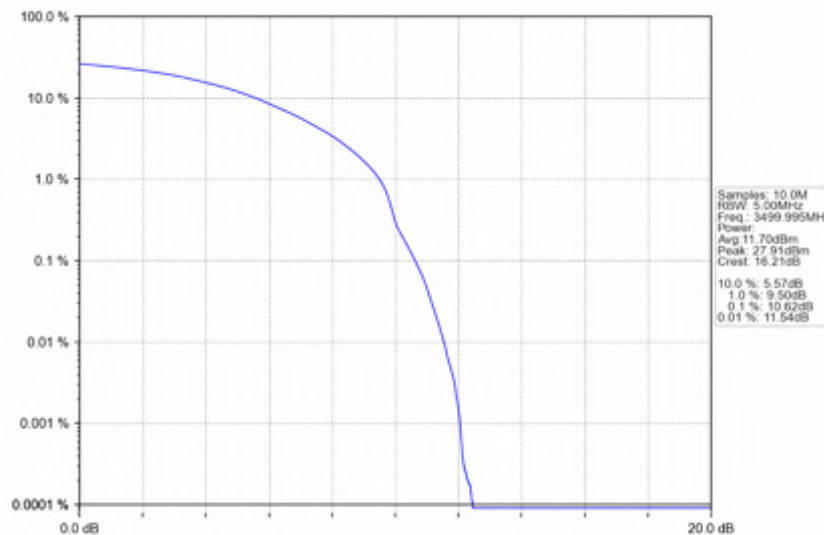
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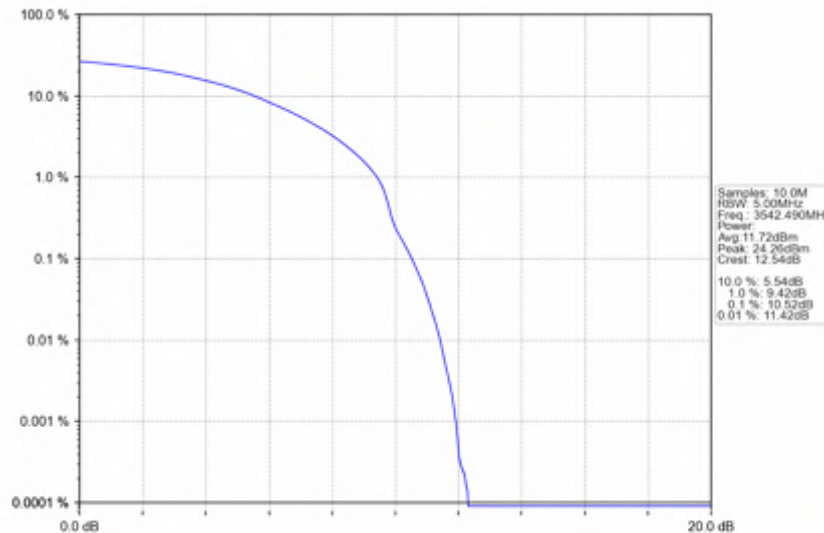


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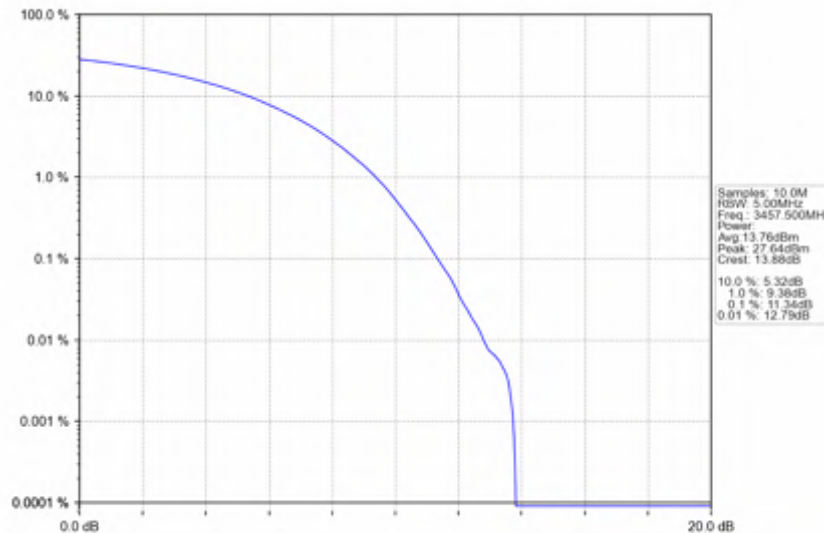
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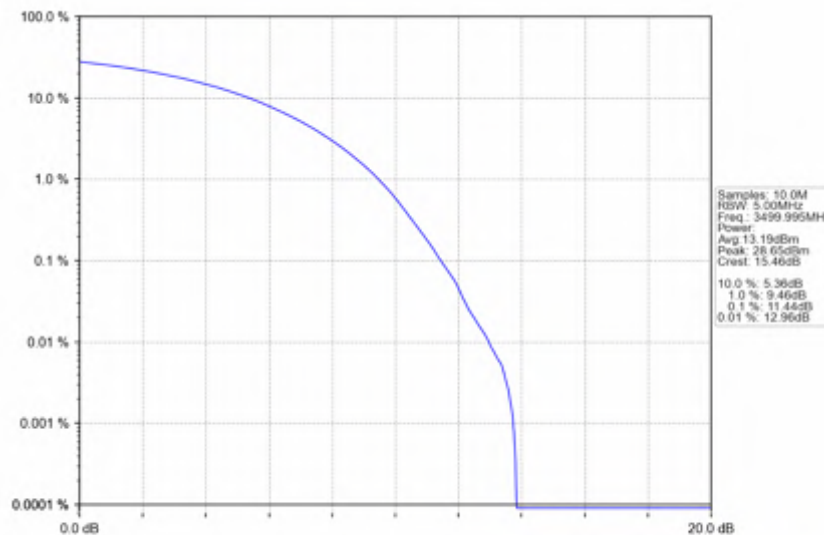


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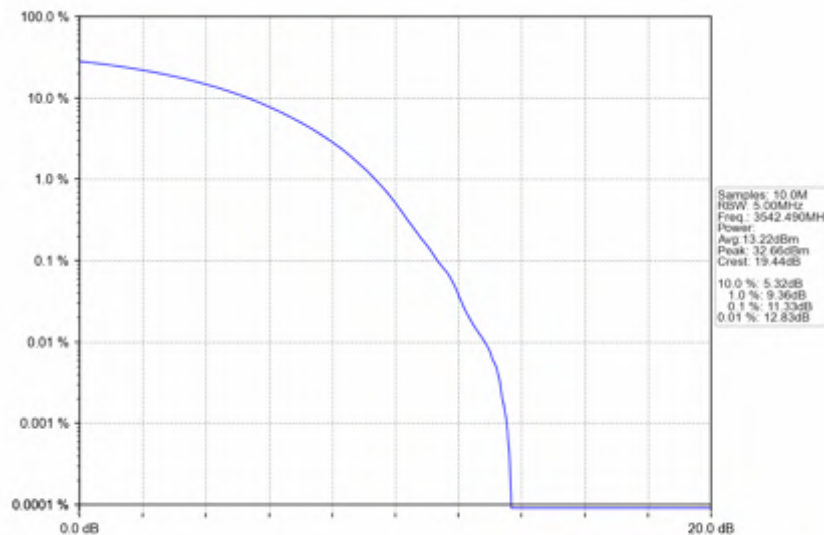
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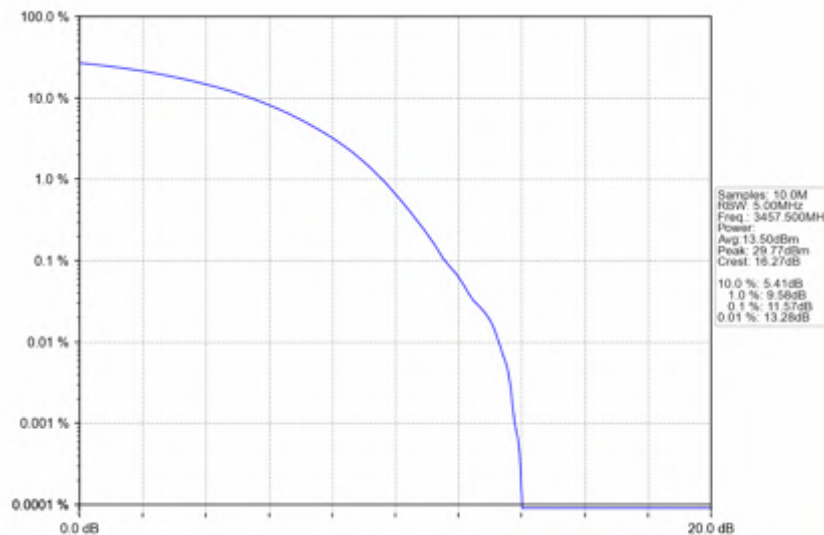


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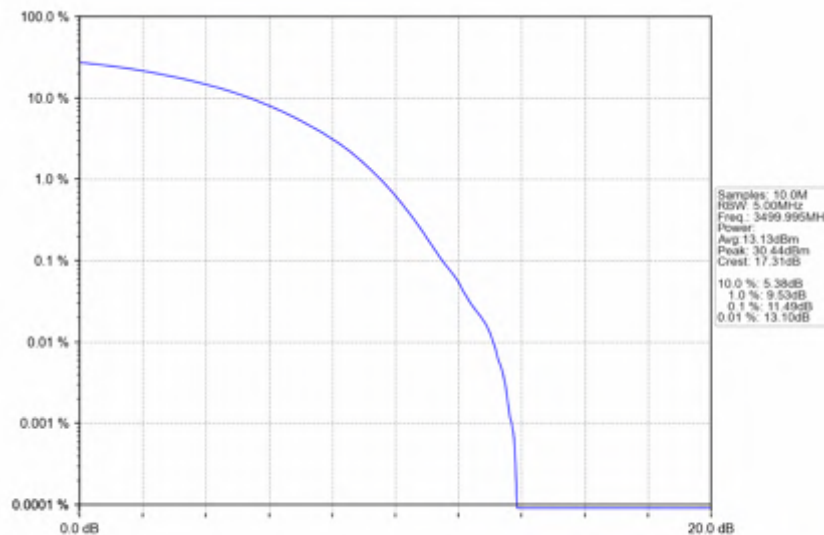
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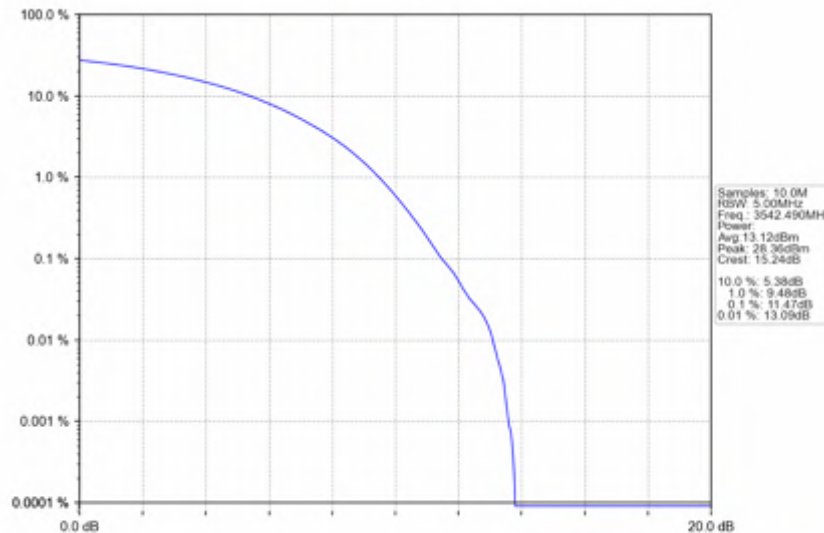
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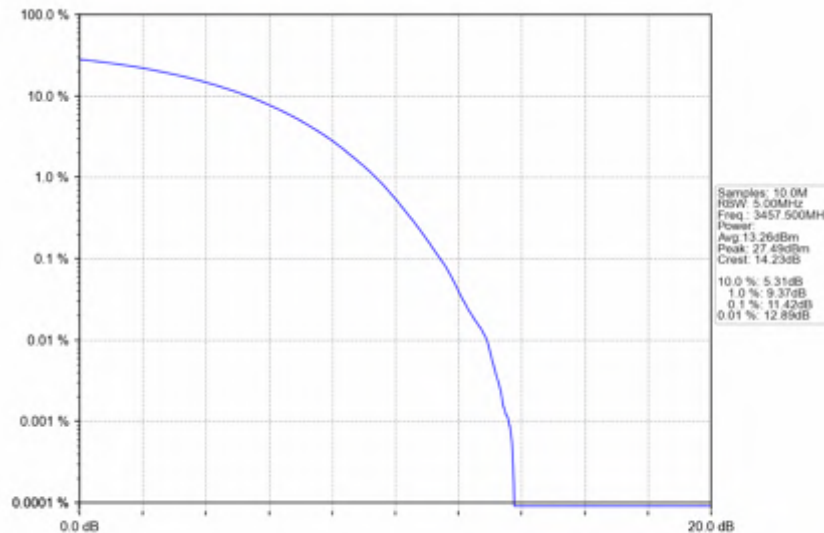
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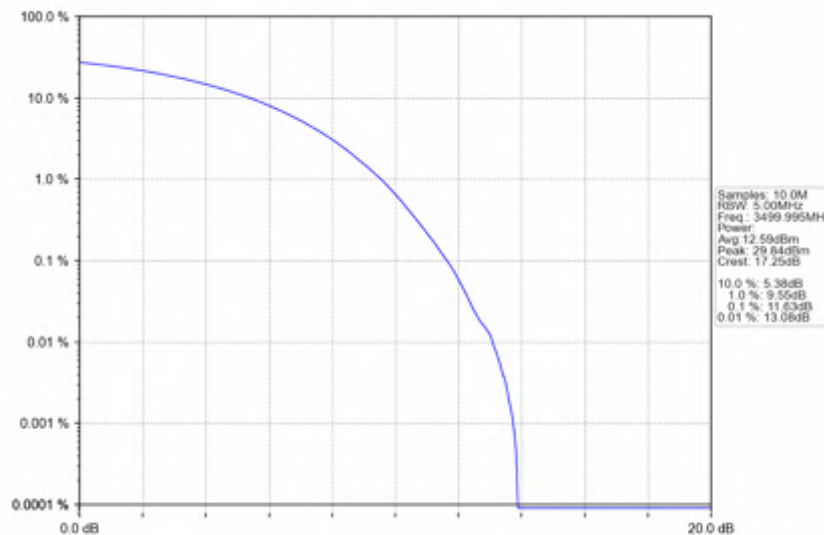
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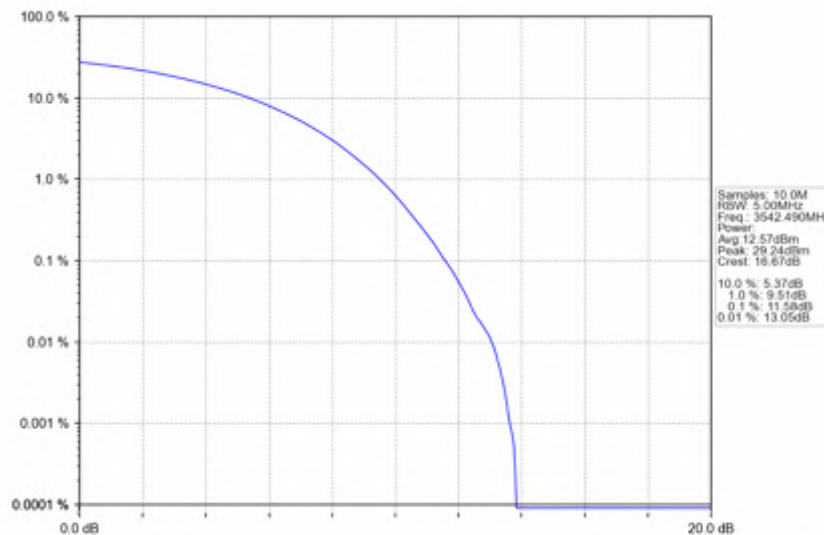
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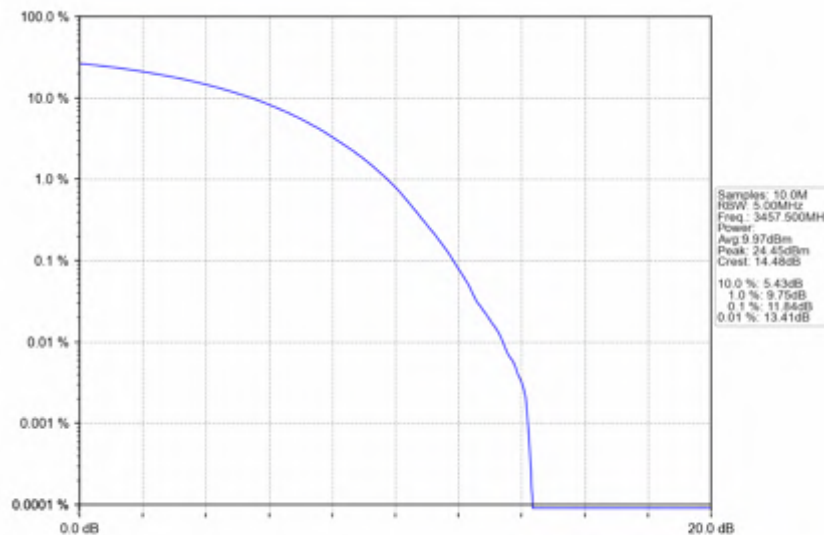


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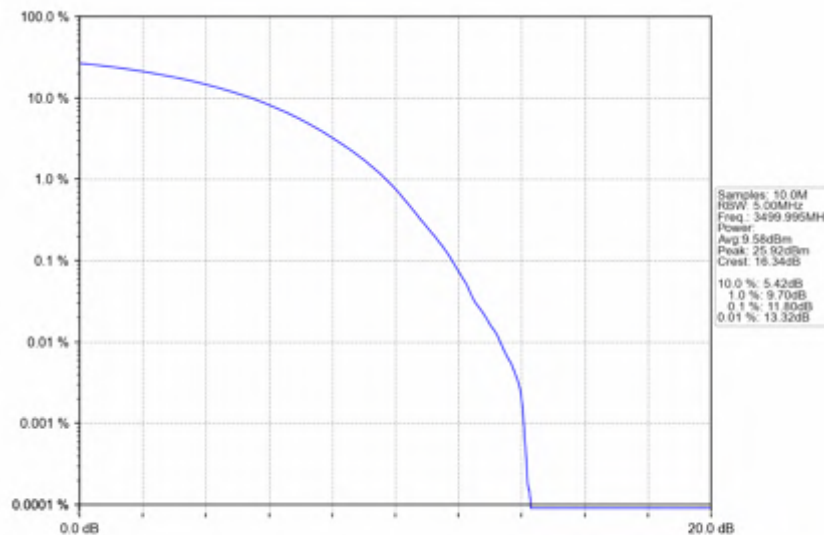
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n78e_15kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_3457.5MHz_Outer_Full



n78e_15kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_3499.995MHz_Outer_Full



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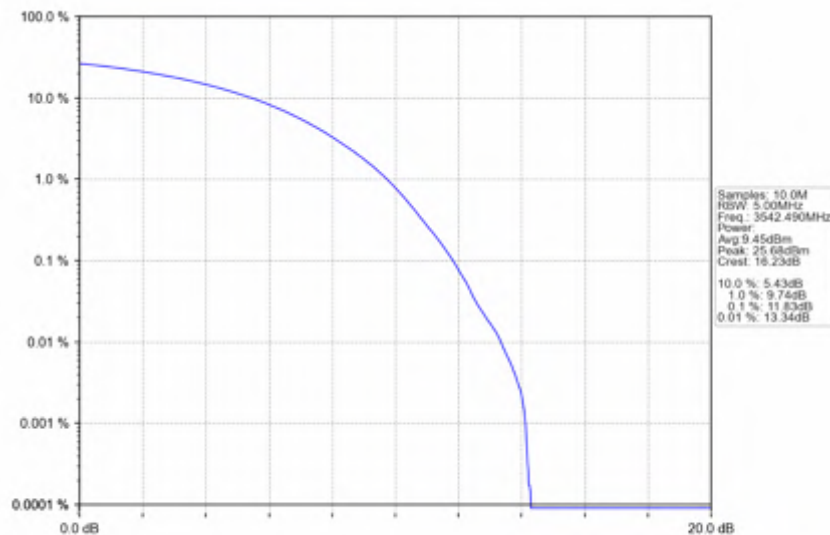
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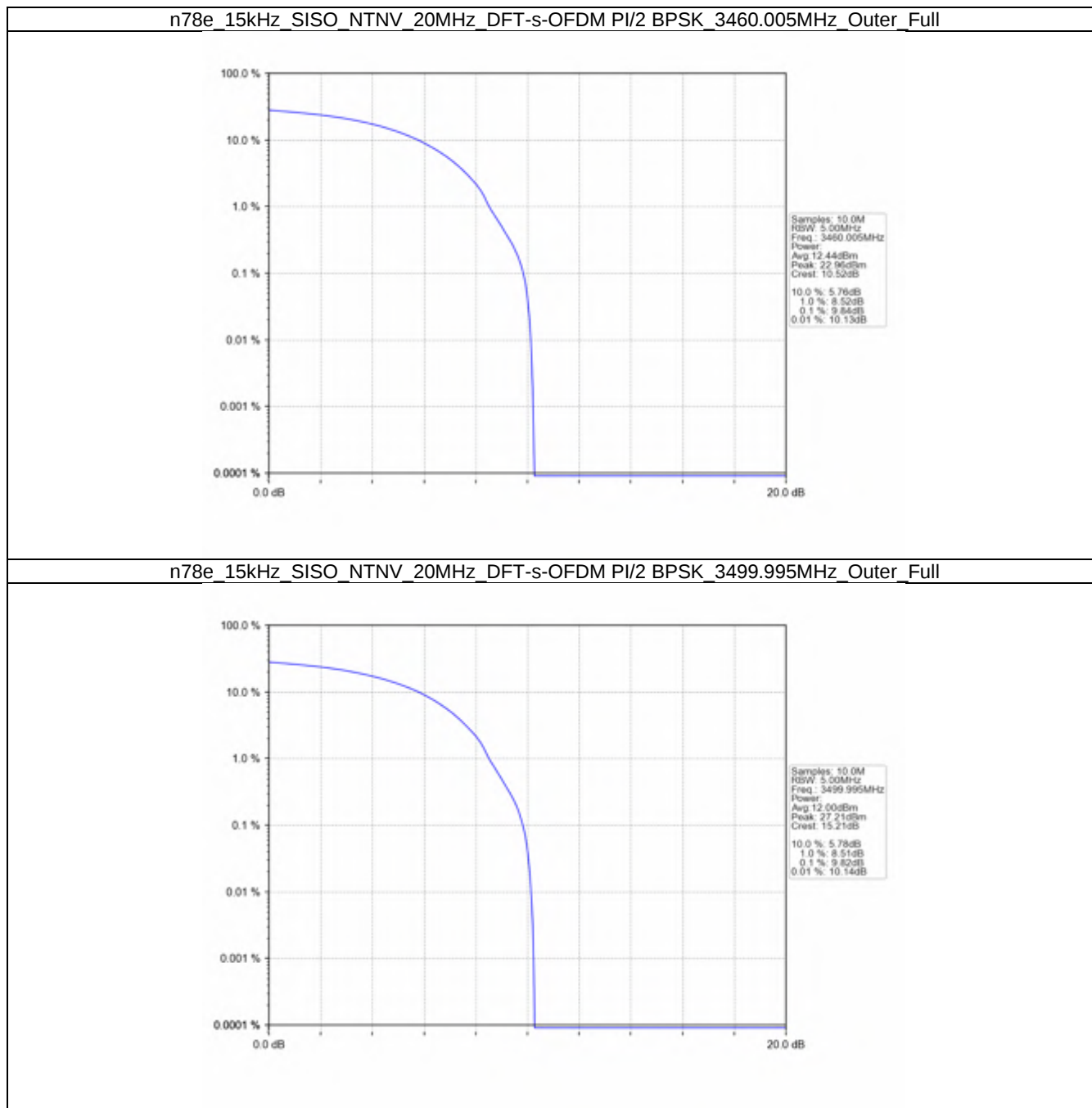
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9.3 15k_SISO_20MHz_NTNV

9.3.1 Test Result

5G NR n78e 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	3460.005	Outer_Full	9.84	/	/	<=13	Pass
	3499.995	Outer_Full	9.82	/	/	<=13	Pass
	3540	Outer_Full	9.81	/	/	<=13	Pass
DFT-s-OFDM QPSK	3460.005	Outer_Full	10.27	/	/	<=13	Pass
	3499.995	Outer_Full	10.38	/	/	<=13	Pass
	3540	Outer_Full	10.25	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3460.005	Outer_Full	10.58	/	/	<=13	Pass
	3499.995	Outer_Full	10.59	/	/	<=13	Pass
	3540	Outer_Full	10.64	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3460.005	Outer_Full	11.07	/	/	<=13	Pass
	3499.995	Outer_Full	11.00	/	/	<=13	Pass
	3540	Outer_Full	11.03	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3460.005	Outer_Full	11.01	/	/	<=13	Pass
	3499.995	Outer_Full	11.05	/	/	<=13	Pass
	3540	Outer_Full	10.96	/	/	<=13	Pass
CP-OFDM QPSK	3460.005	Outer_Full	12.14	/	/	<=13	Pass
	3499.995	Outer_Full	12.00	/	/	<=13	Pass
	3540	Outer_Full	11.66	/	/	<=13	Pass
CP-OFDM 16 QAM	3460.005	Outer_Full	11.77	/	/	<=13	Pass
	3499.995	Outer_Full	11.88	/	/	<=13	Pass
	3540	Outer_Full	11.58	/	/	<=13	Pass
CP-OFDM 64 QAM	3460.005	Outer_Full	11.94	/	/	<=13	Pass
	3499.995	Outer_Full	11.70	/	/	<=13	Pass
	3540	Outer_Full	11.90	/	/	<=13	Pass
CP-OFDM 256 QAM	3460.005	Outer_Full	11.70	/	/	<=13	Pass
	3499.995	Outer_Full	11.73	/	/	<=13	Pass
	3540	Outer_Full	11.81	/	/	<=13	Pass

9.3.2 Test Graph



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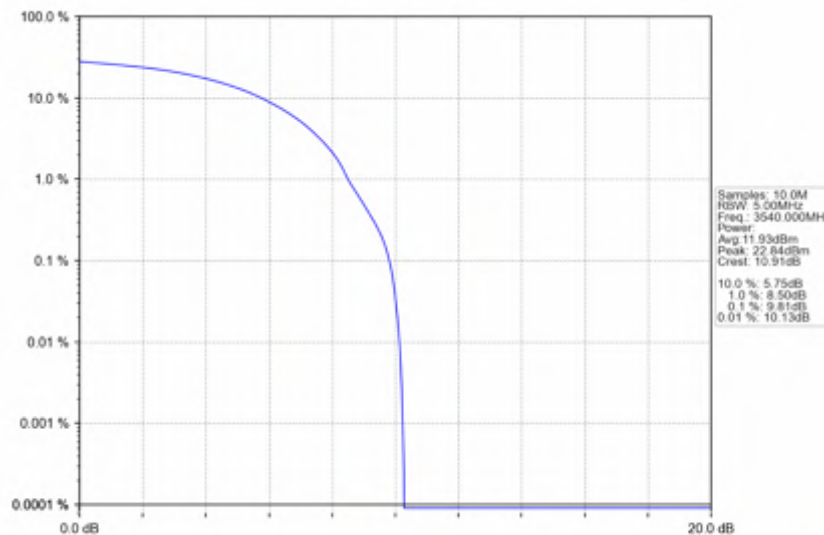
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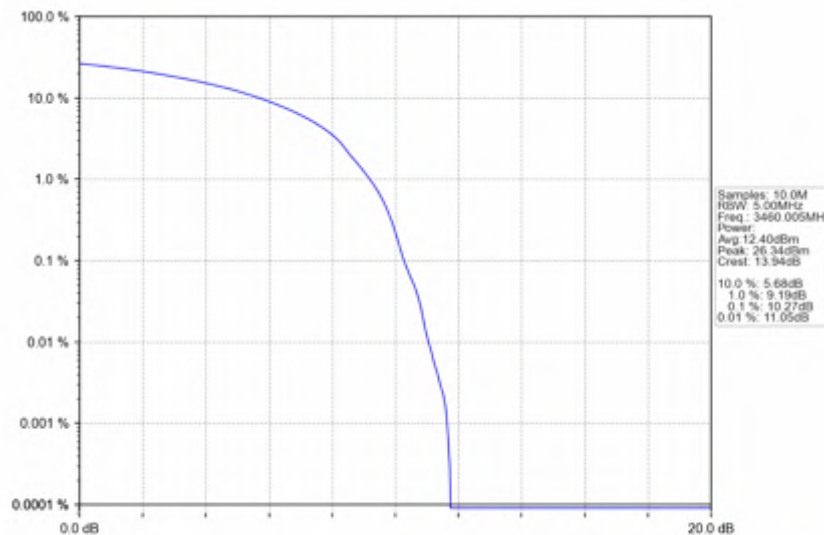
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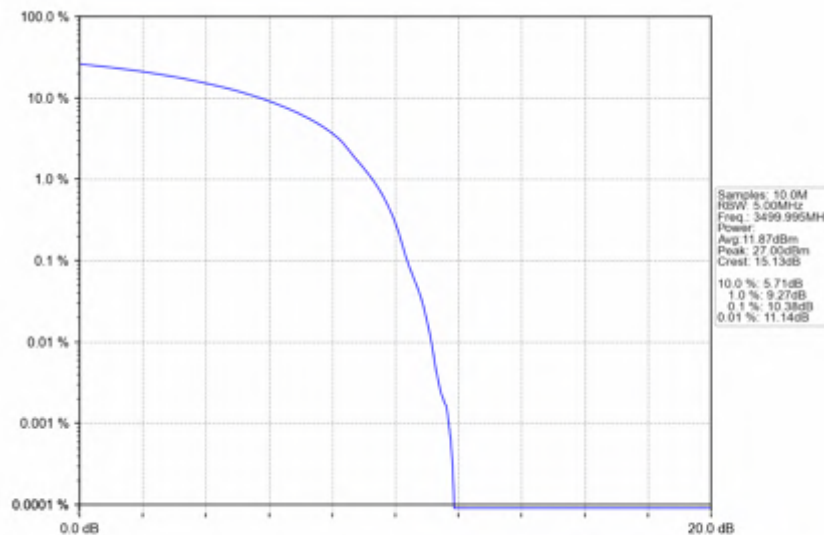
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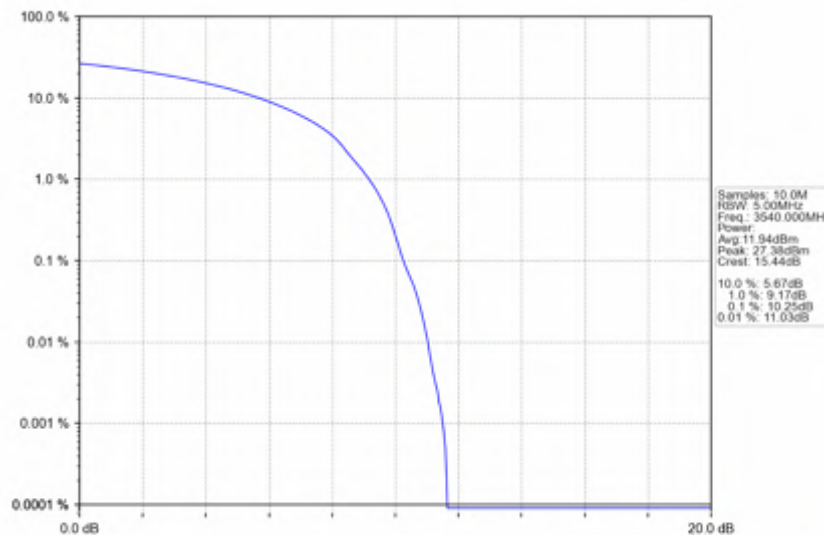
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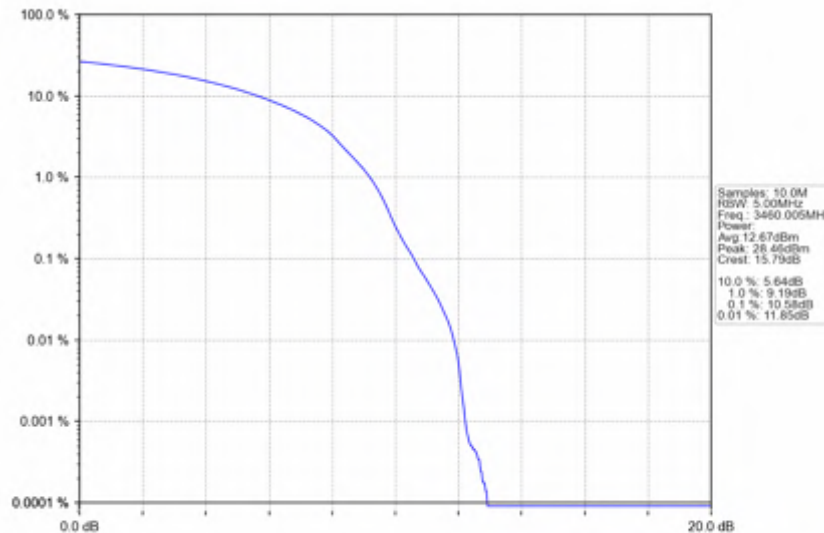


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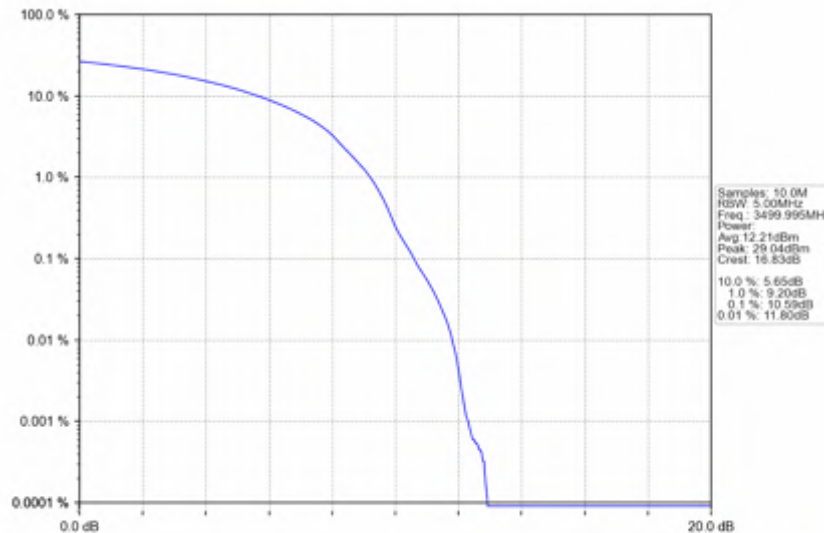
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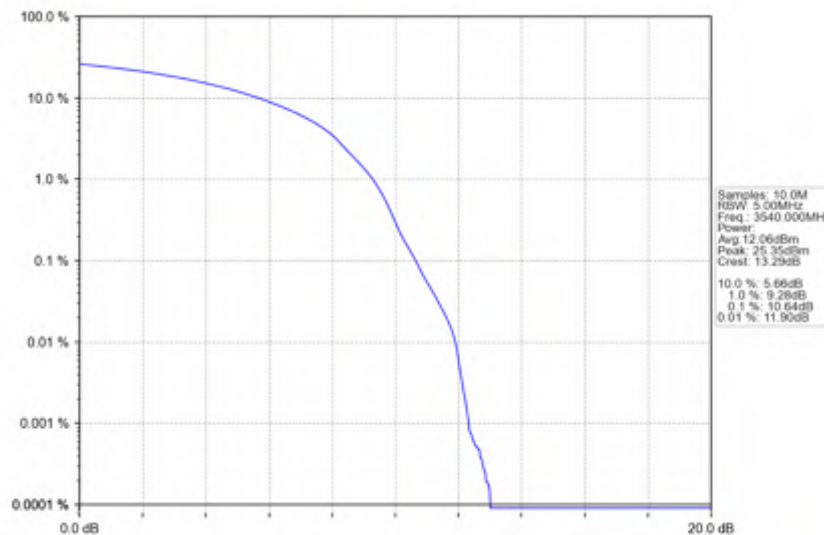


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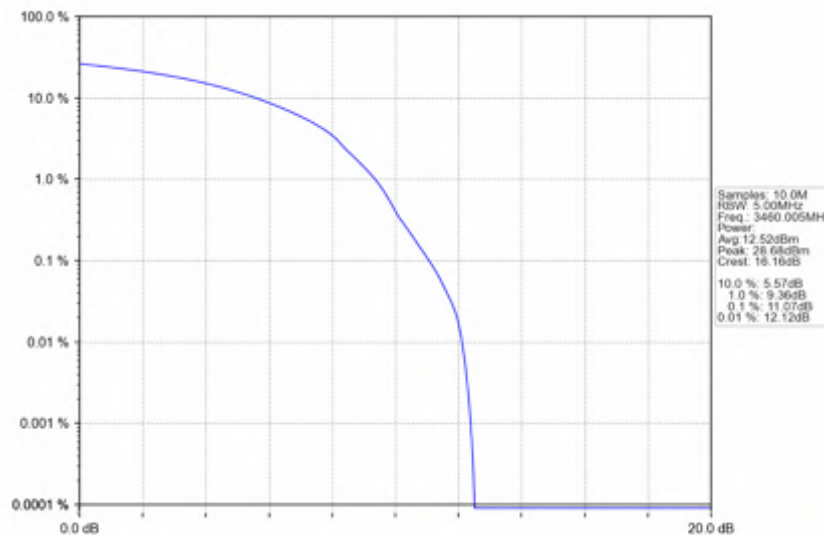
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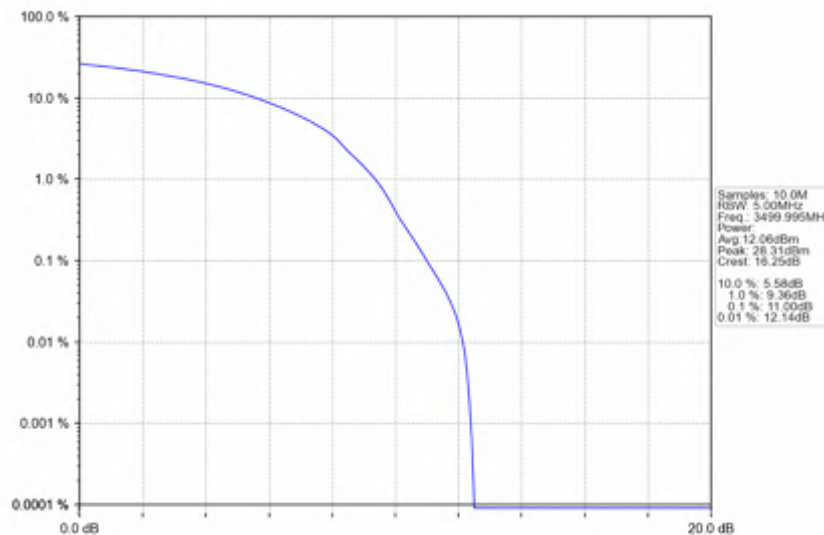


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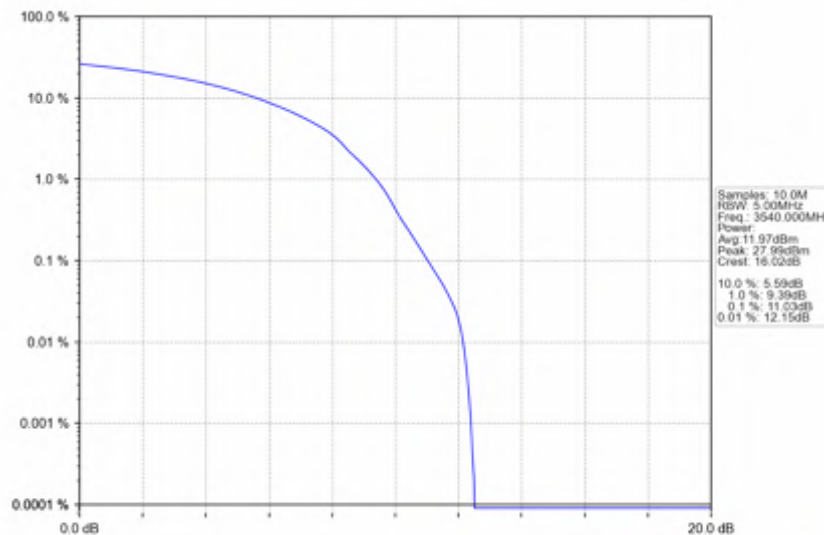
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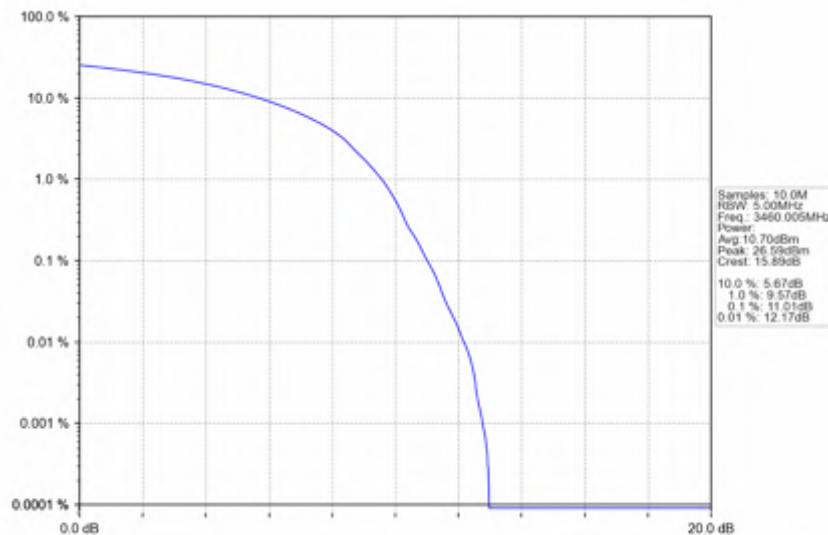


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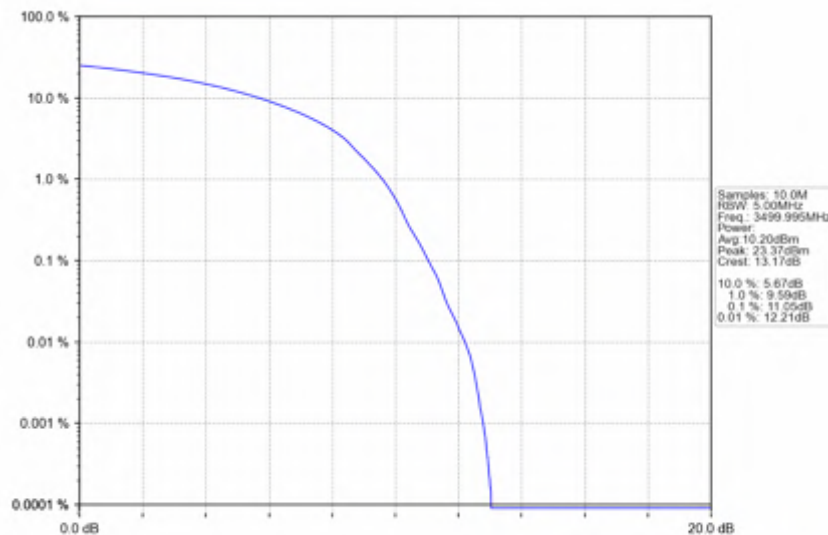
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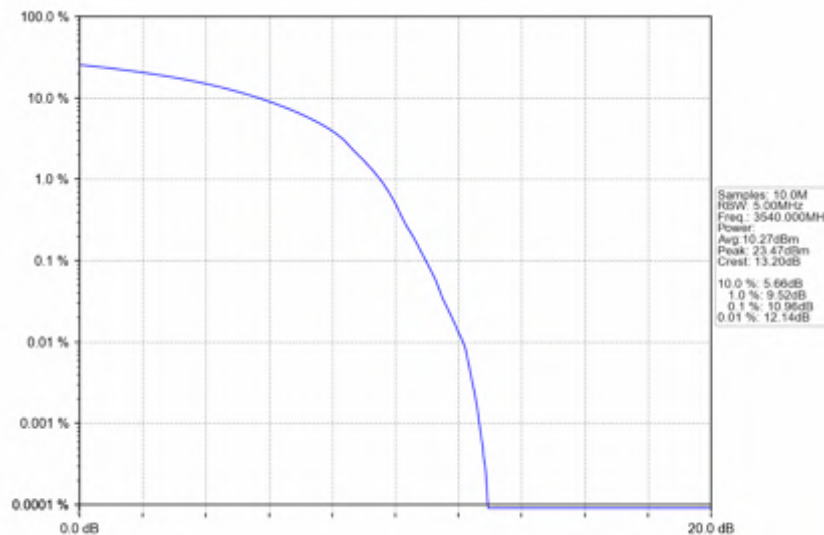


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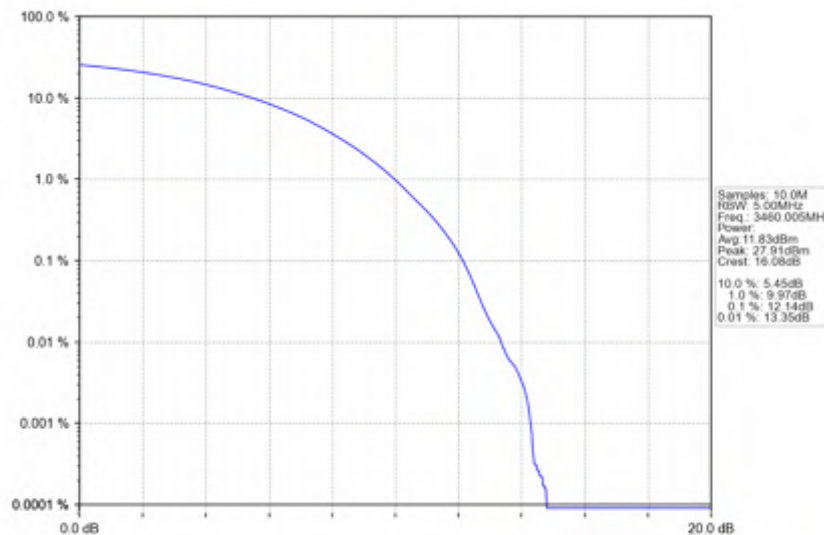
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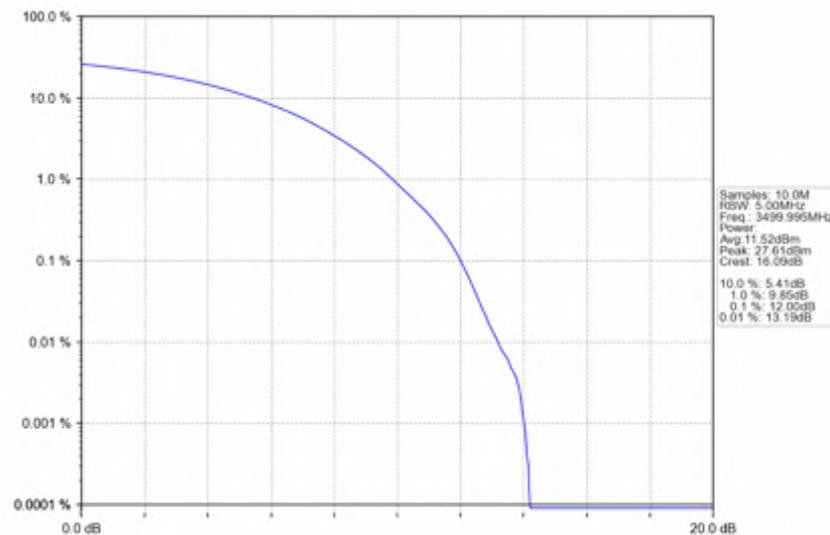


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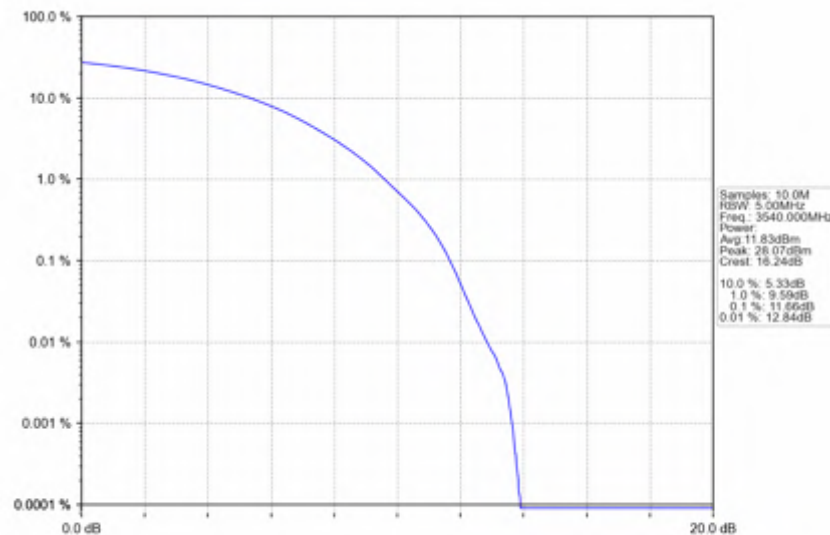
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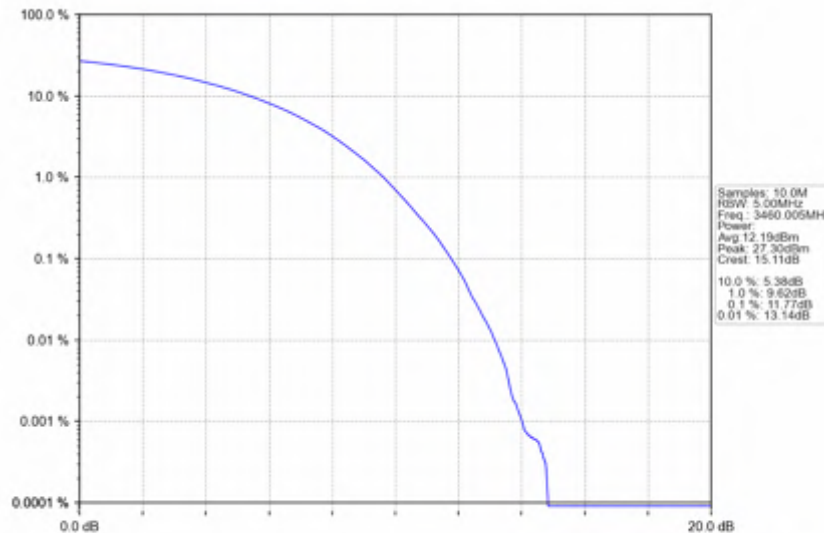
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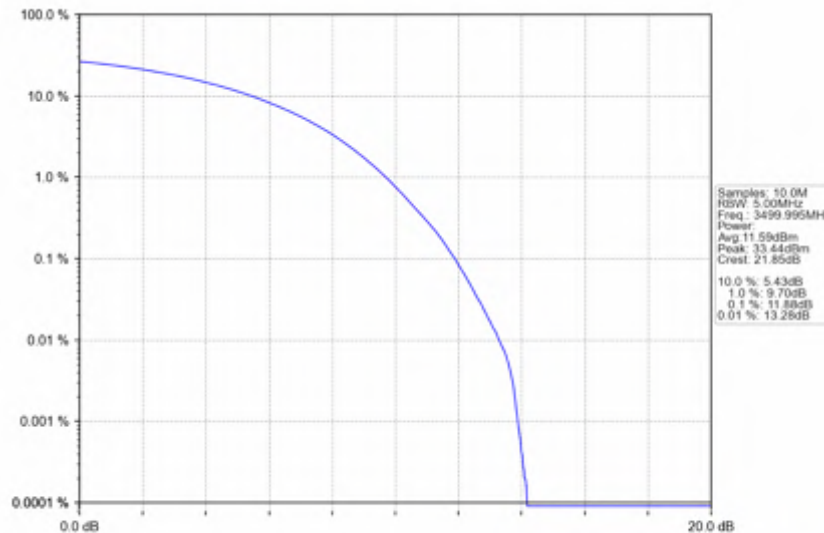
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n78e_15kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_3460.005MHz_Outer_Full



n78e_15kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_3499.995MHz_Outer_Full



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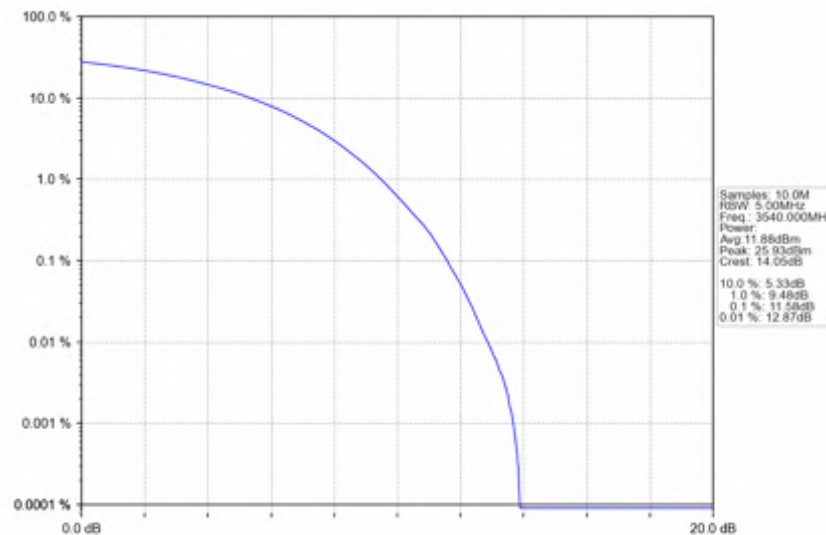
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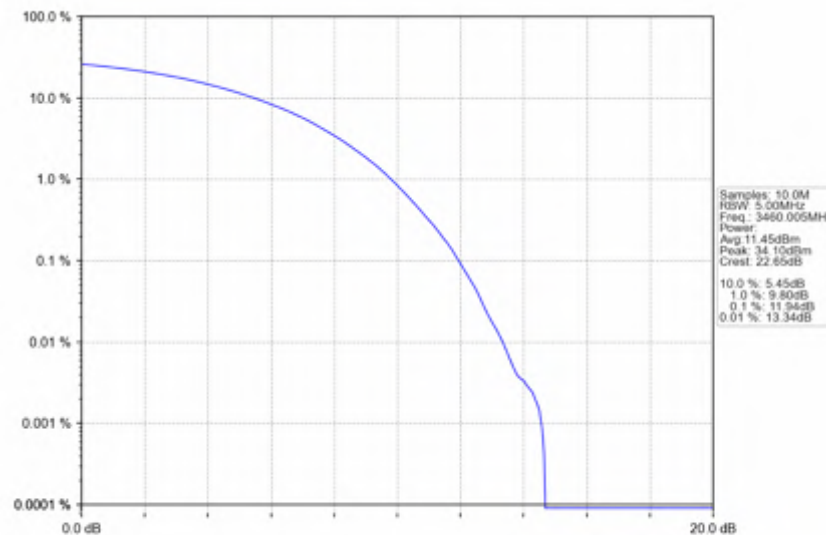
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n78e_15kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_3460.005MHz_Outer_Full

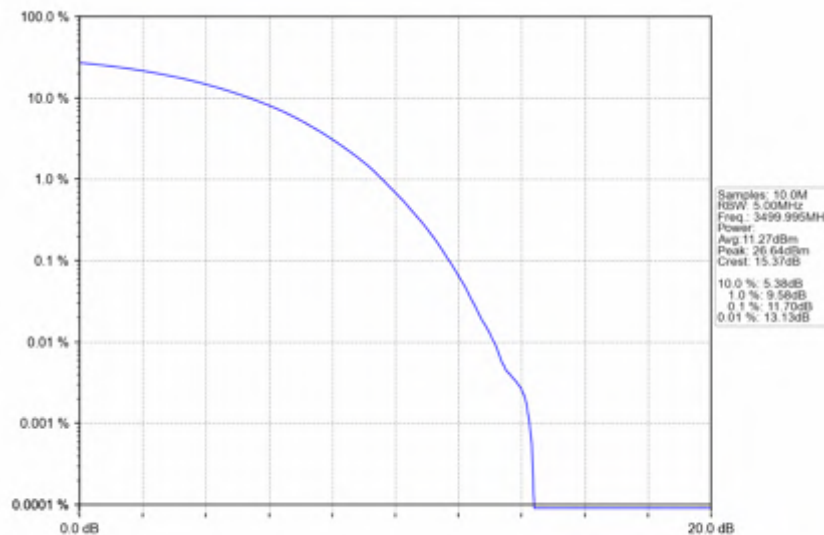


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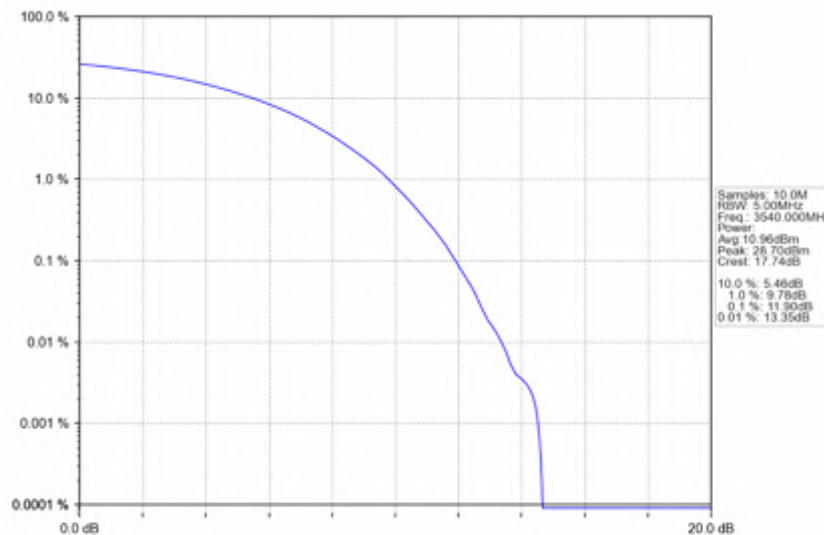
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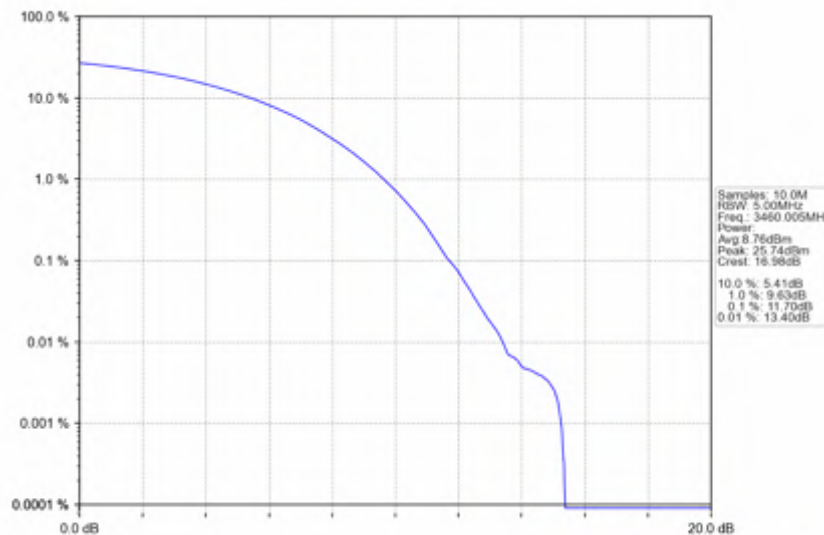


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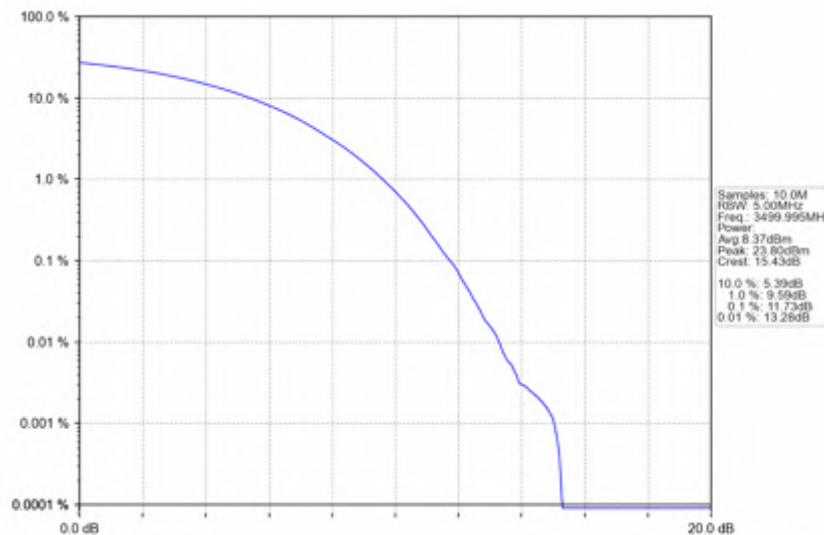
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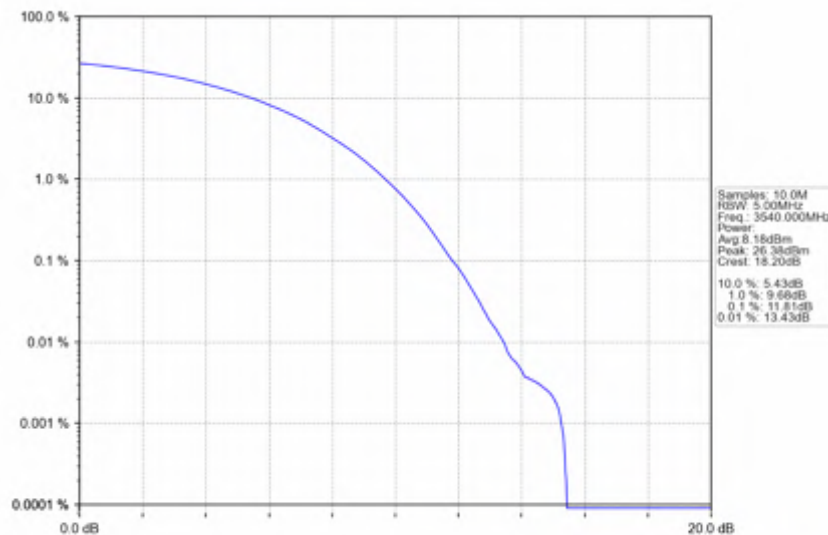


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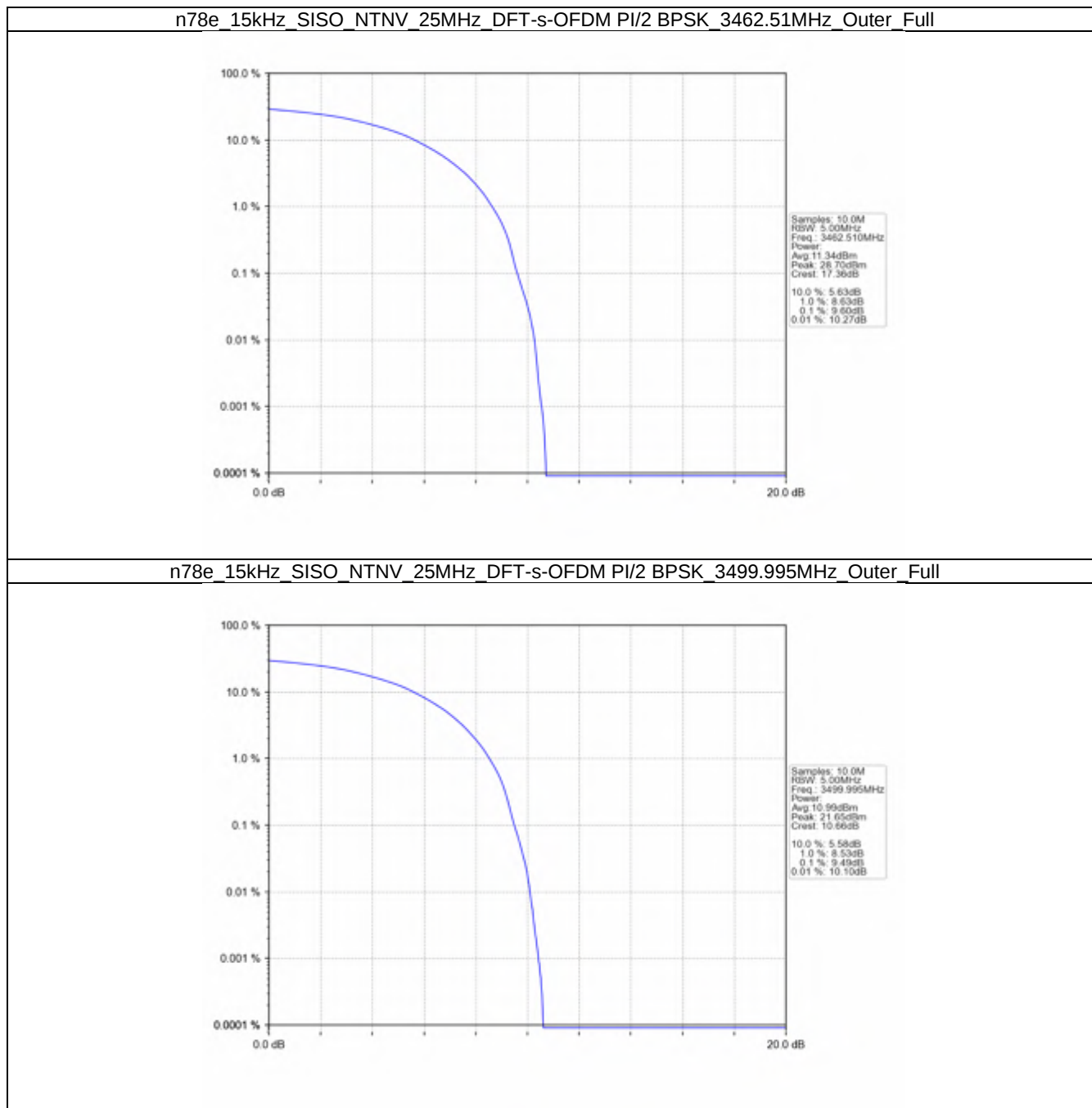
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9.4 15k_SISO_25MHz_NTNV

9.4.1 Test Result

5G NR n78e SCS=15kHz SISO 25MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3462.51	Outer_Full	9.60	/	/	<=13	Pass
	3499.995	Outer_Full	9.49	/	/	<=13	Pass
	3537.495	Outer_Full	9.44	/	/	<=13	Pass
DFT-s-OFDM QPSK	3462.51	Outer_Full	10.67	/	/	<=13	Pass
	3499.995	Outer_Full	10.57	/	/	<=13	Pass
	3537.495	Outer_Full	10.64	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3462.51	Outer_Full	10.90	/	/	<=13	Pass
	3499.995	Outer_Full	11.17	/	/	<=13	Pass
	3537.495	Outer_Full	11.23	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3462.51	Outer_Full	11.06	/	/	<=13	Pass
	3499.995	Outer_Full	11.07	/	/	<=13	Pass
	3537.495	Outer_Full	11.13	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3462.51	Outer_Full	11.07	/	/	<=13	Pass
	3499.995	Outer_Full	10.99	/	/	<=13	Pass
	3537.495	Outer_Full	10.96	/	/	<=13	Pass
CP-OFDM QPSK	3462.51	Outer_Full	11.72	/	/	<=13	Pass
	3499.995	Outer_Full	11.77	/	/	<=13	Pass
	3537.495	Outer_Full	11.84	/	/	<=13	Pass
CP-OFDM 16 QAM	3462.51	Outer_Full	11.81	/	/	<=13	Pass
	3499.995	Outer_Full	11.75	/	/	<=13	Pass
	3537.495	Outer_Full	11.63	/	/	<=13	Pass
CP-OFDM 64 QAM	3462.51	Outer_Full	11.71	/	/	<=13	Pass
	3499.995	Outer_Full	11.77	/	/	<=13	Pass
	3537.495	Outer_Full	11.74	/	/	<=13	Pass
CP-OFDM 256 QAM	3462.51	Outer_Full	11.93	/	/	<=13	Pass
	3499.995	Outer_Full	11.82	/	/	<=13	Pass
	3537.495	Outer_Full	11.78	/	/	<=13	Pass

9.4.2 Test Graph



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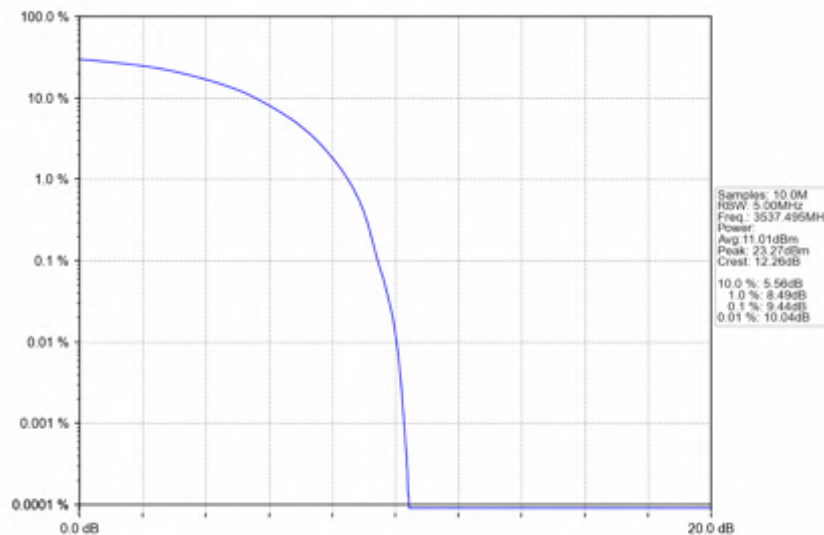
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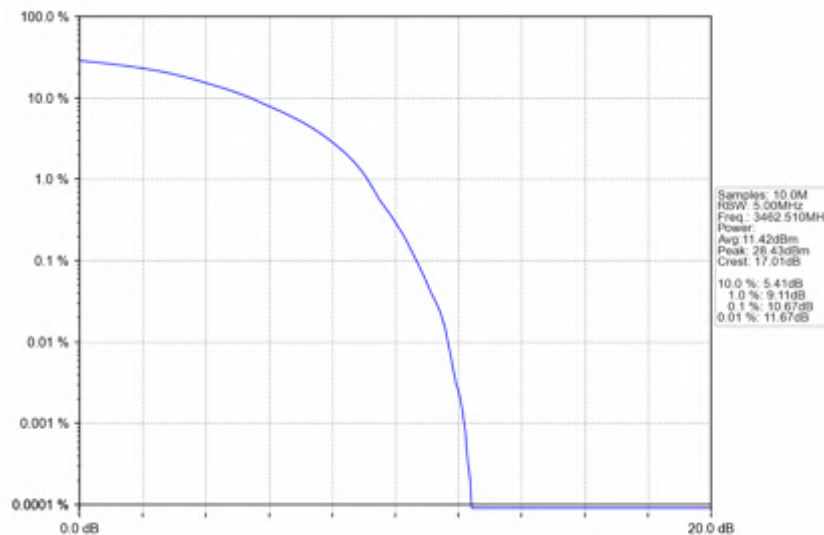
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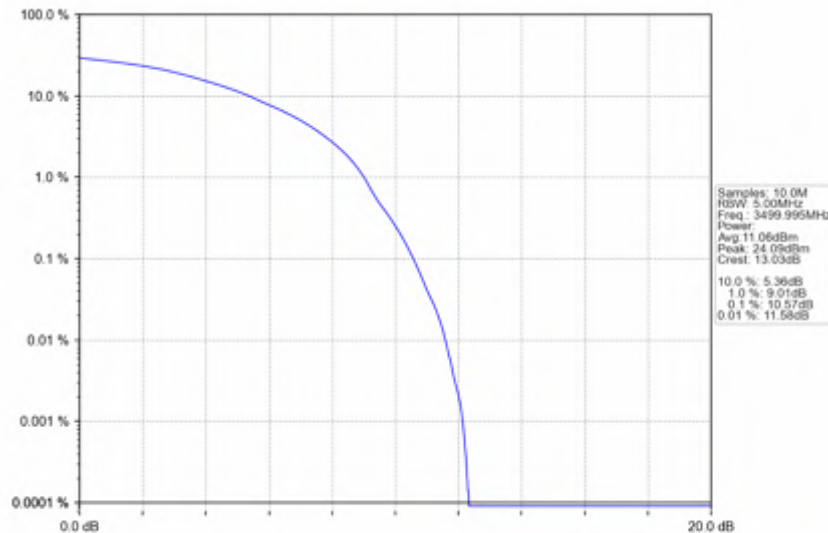


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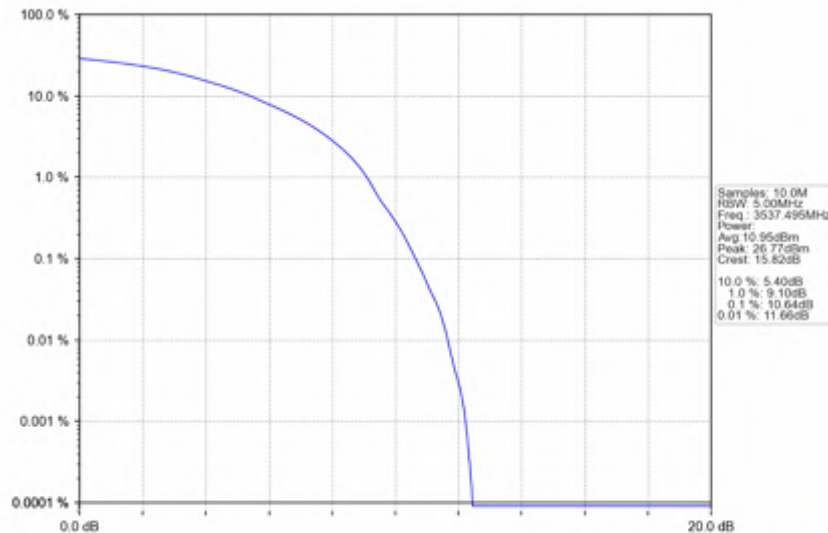
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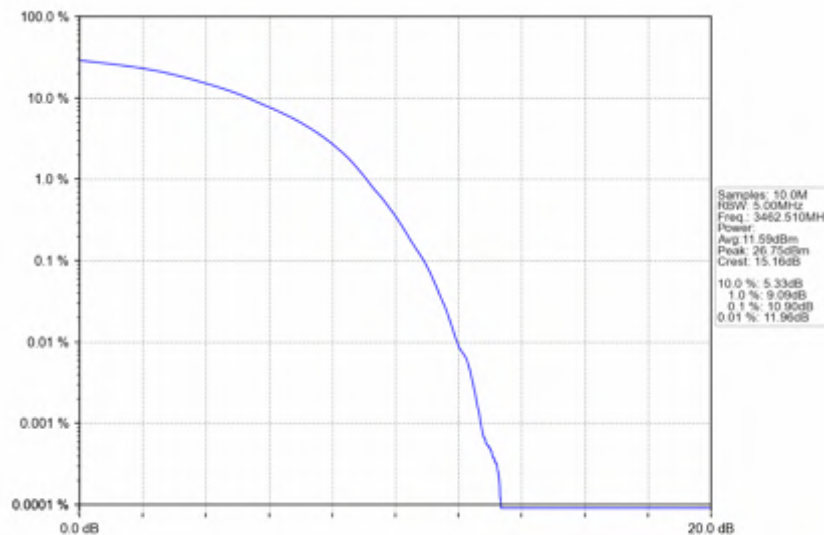


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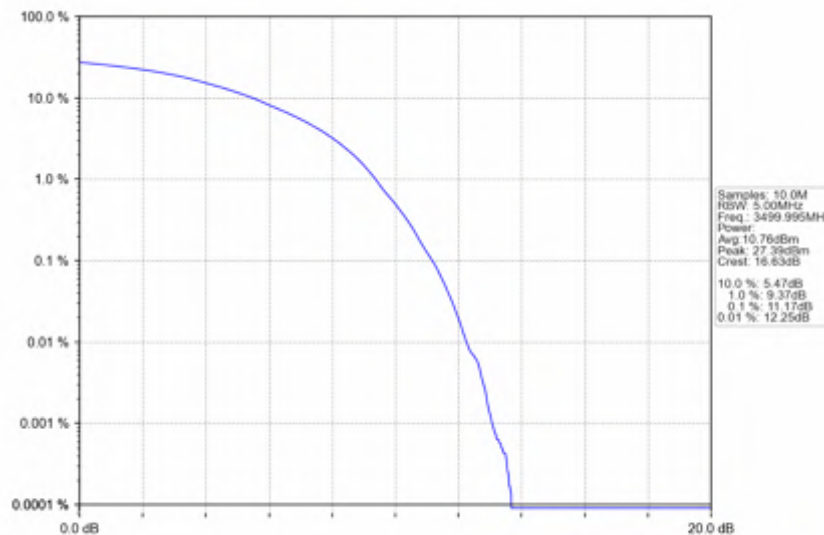
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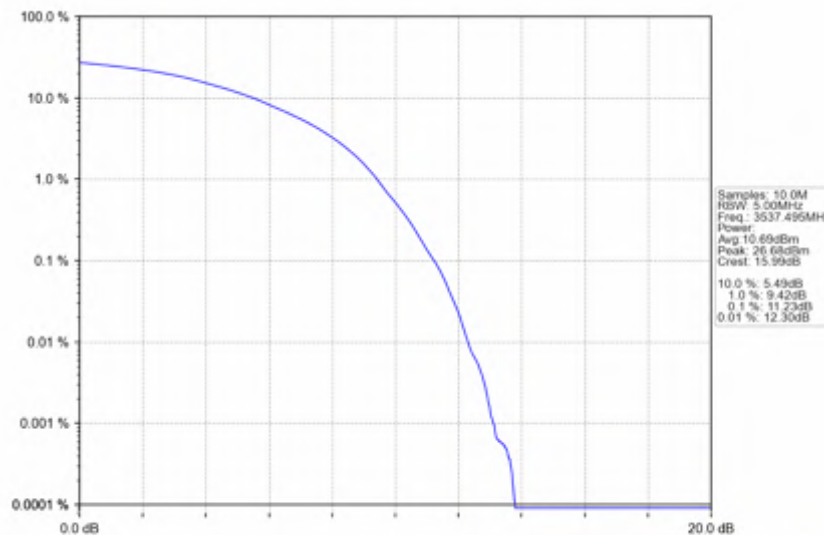


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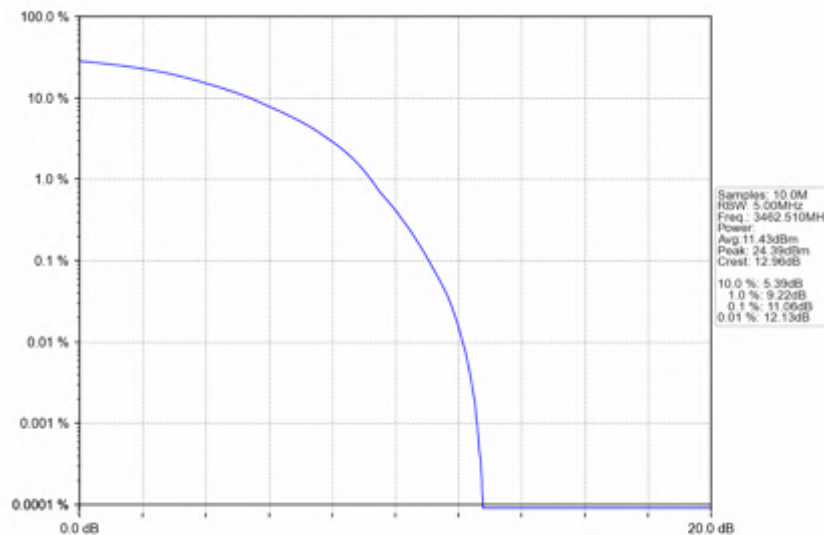
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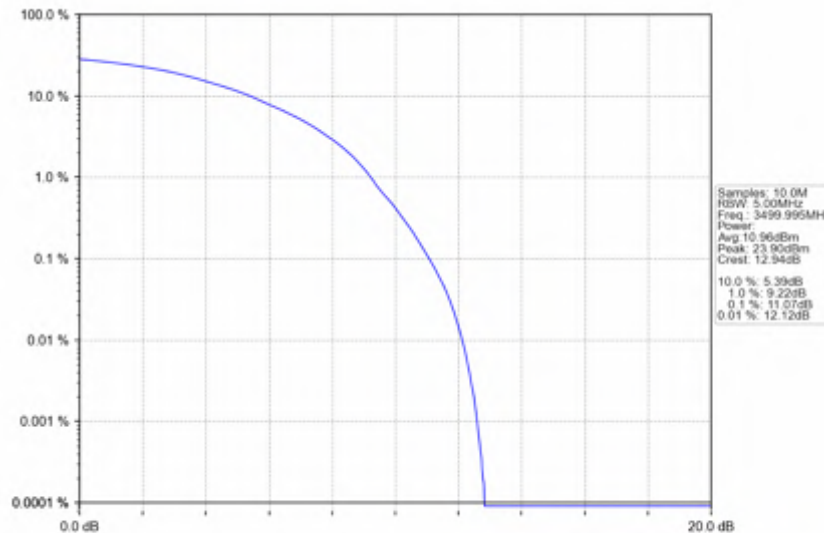


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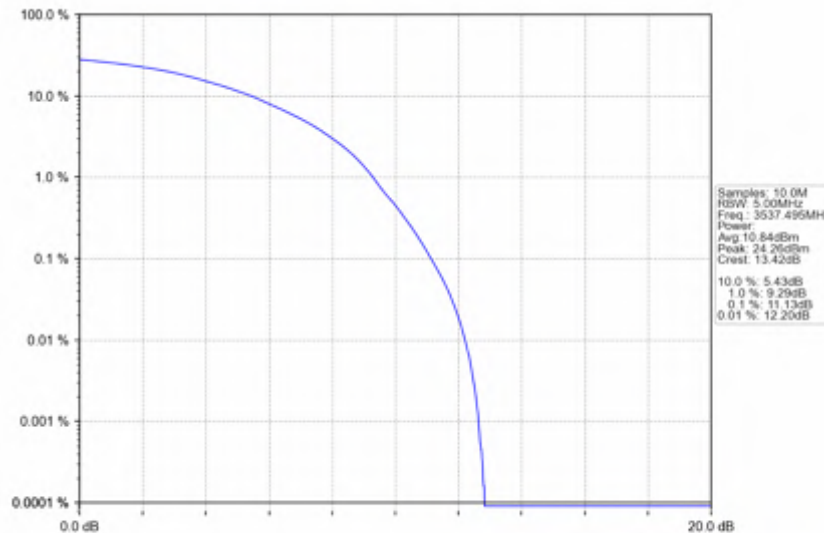
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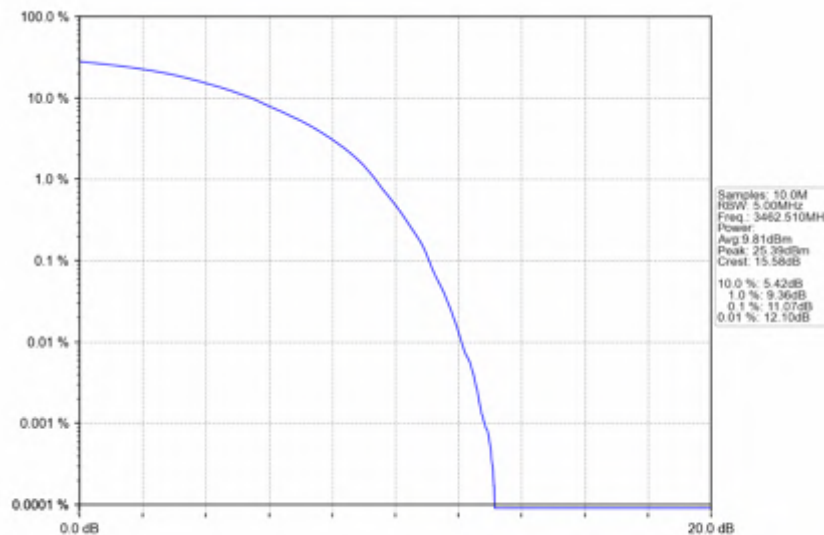


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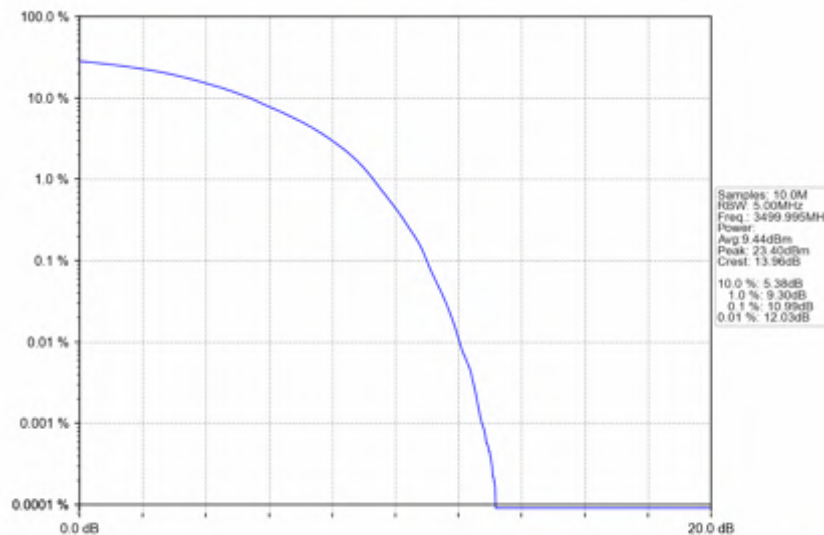
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n78e_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM_256_QAM_3462.51MHz_Outer_Full



n78e_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM_256_QAM_3499.995MHz_Outer_Full



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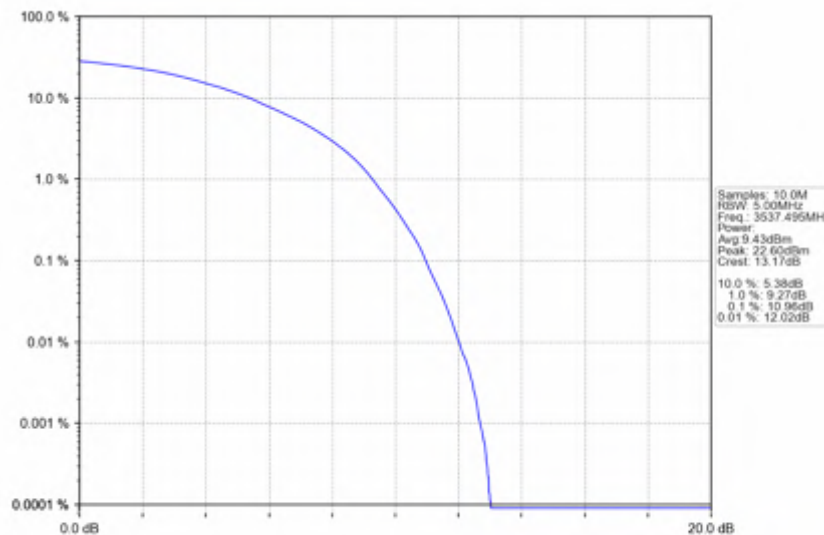
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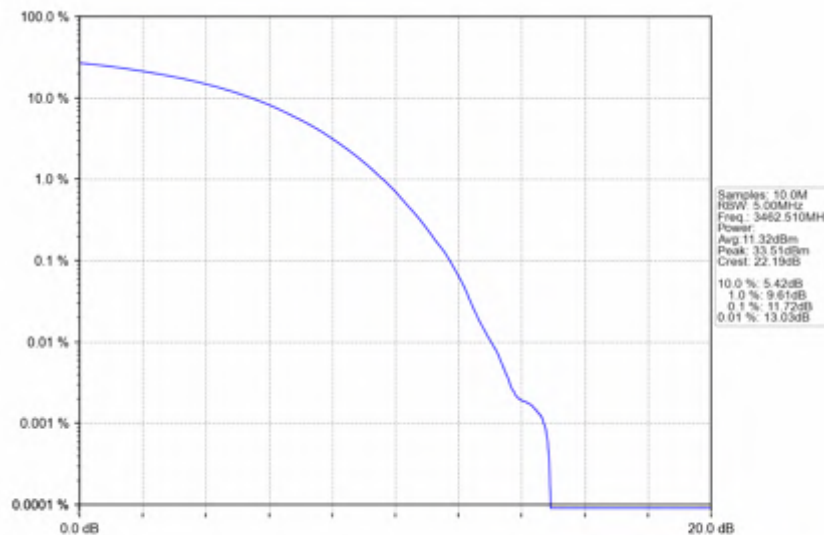
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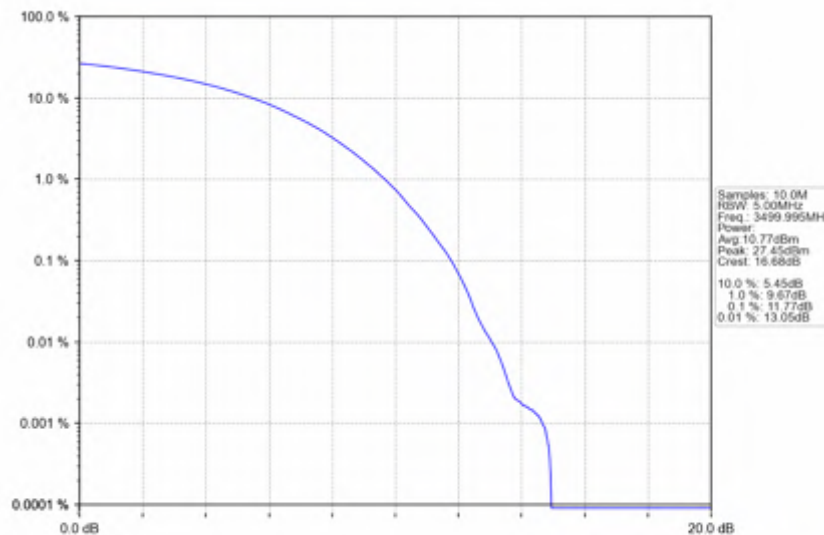
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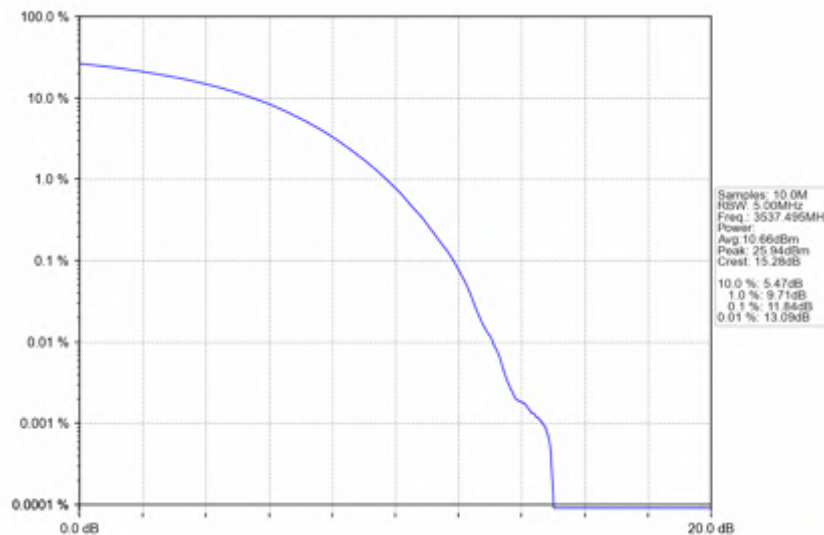
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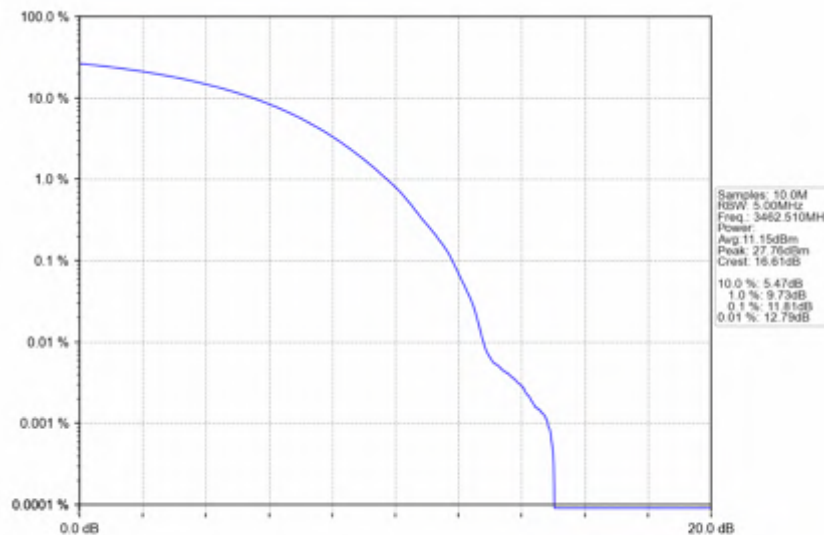


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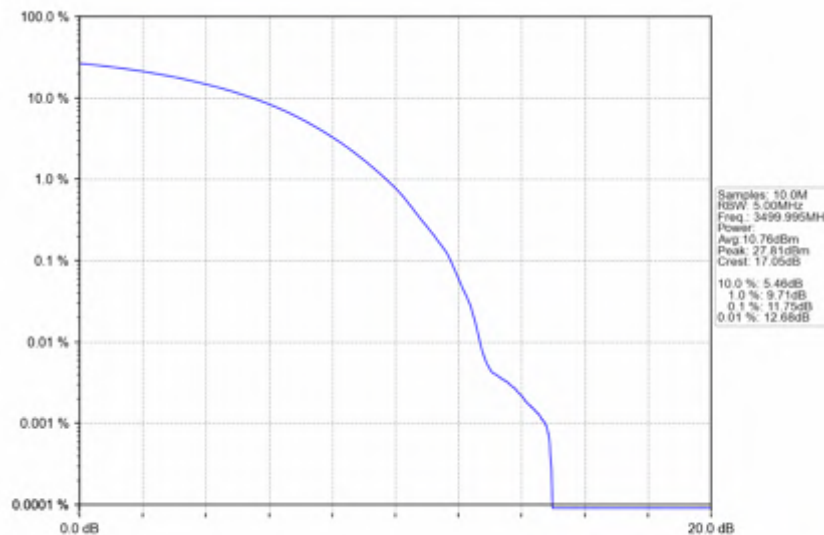
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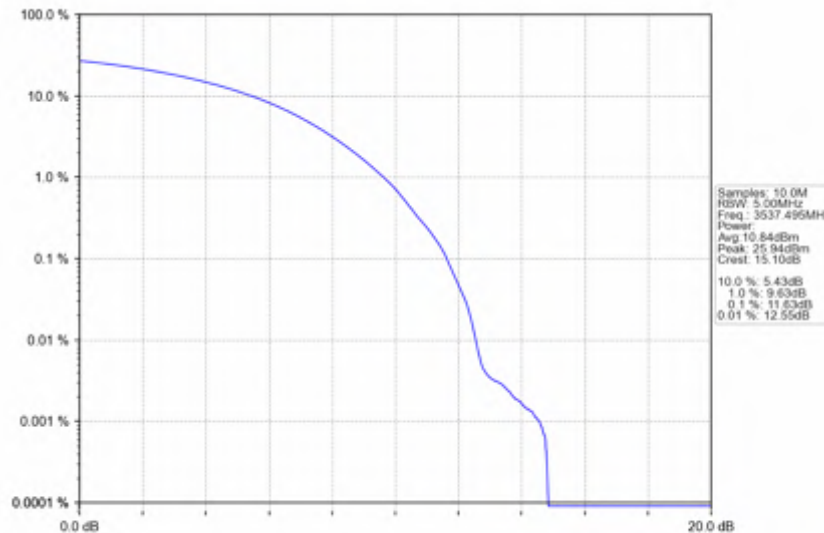


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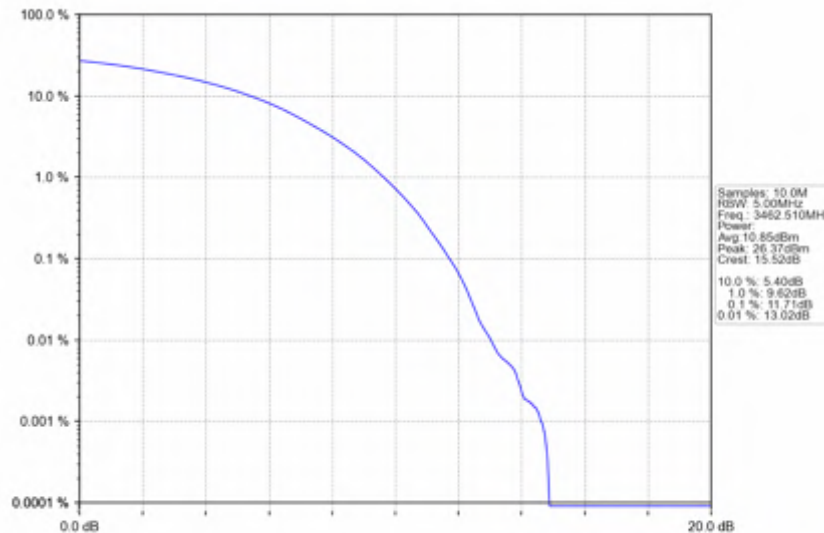
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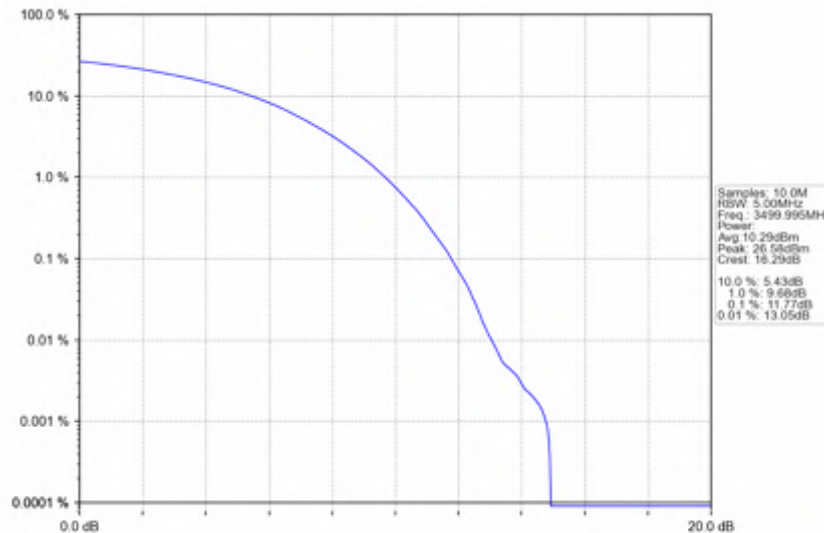


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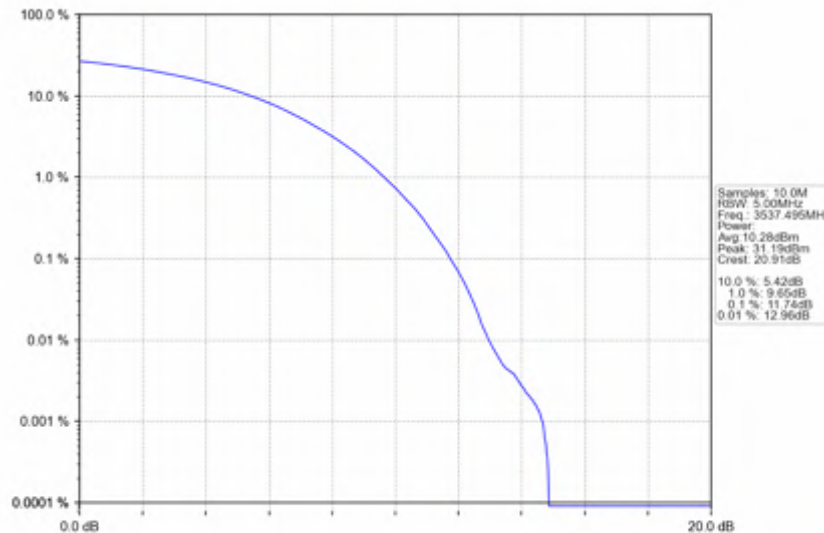
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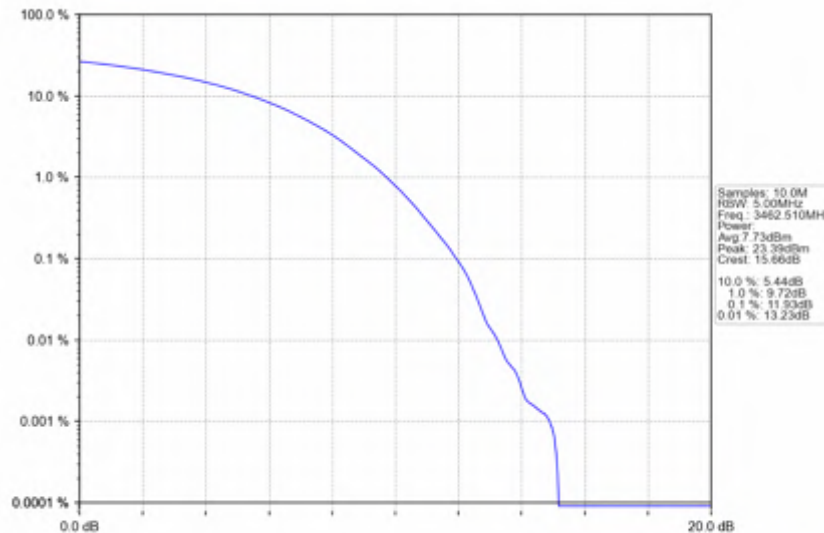
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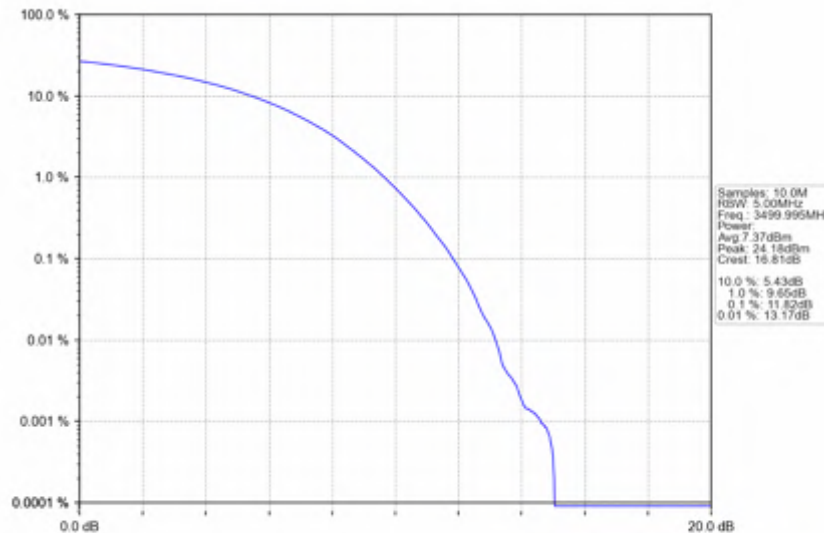
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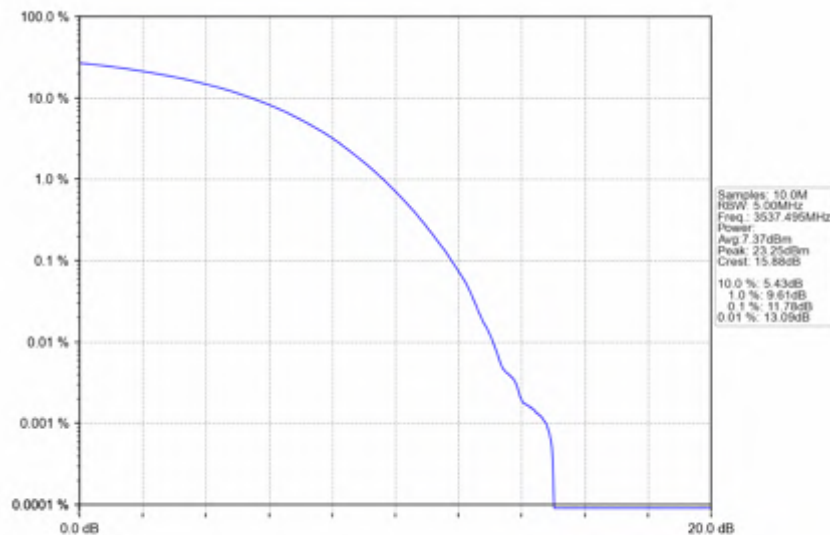
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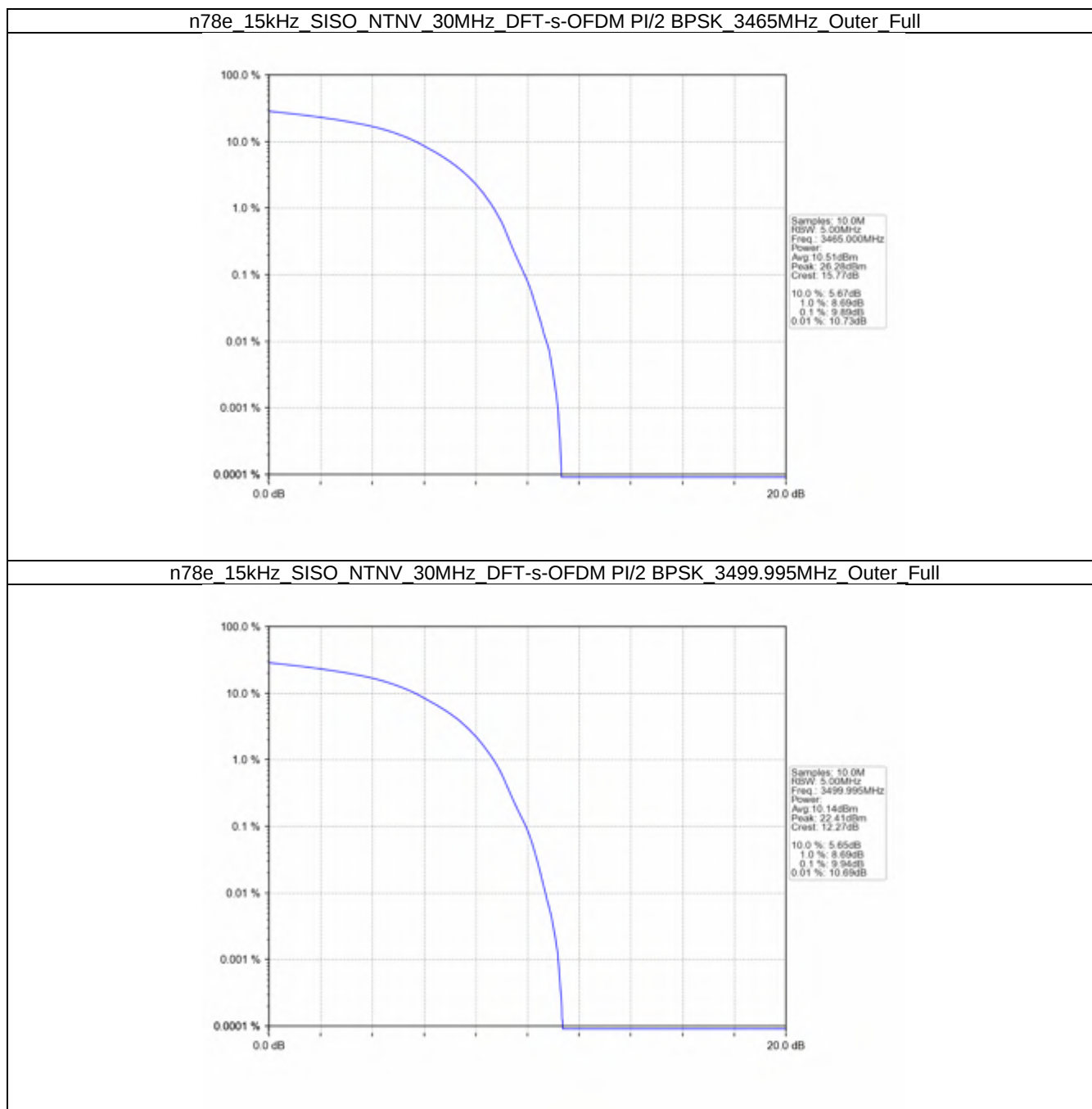
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9.5 15k_SISO_30MHz_NTNV

9.5.1 Test Result

5G NR n78e SCS=15kHz SISO 30MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3465	Outer_Full	9.89	/	/	<=13	Pass
	3499.995	Outer_Full	9.94	/	/	<=13	Pass
	3534.99	Outer_Full	9.95	/	/	<=13	Pass
DFT-s-OFDM QPSK	3465	Outer_Full	10.61	/	/	<=13	Pass
	3499.995	Outer_Full	10.68	/	/	<=13	Pass
	3534.99	Outer_Full	10.61	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3465	Outer_Full	11.13	/	/	<=13	Pass
	3499.995	Outer_Full	11.00	/	/	<=13	Pass
	3534.99	Outer_Full	10.98	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3465	Outer_Full	11.23	/	/	<=13	Pass
	3499.995	Outer_Full	10.77	/	/	<=13	Pass
	3534.99	Outer_Full	10.84	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3465	Outer_Full	11.10	/	/	<=13	Pass
	3499.995	Outer_Full	11.13	/	/	<=13	Pass
	3534.99	Outer_Full	11.13	/	/	<=13	Pass
CP-OFDM QPSK	3465	Outer_Full	12.08	/	/	<=13	Pass
	3499.995	Outer_Full	11.86	/	/	<=13	Pass
	3534.99	Outer_Full	11.90	/	/	<=13	Pass
CP-OFDM 16 QAM	3465	Outer_Full	11.69	/	/	<=13	Pass
	3499.995	Outer_Full	11.72	/	/	<=13	Pass
	3534.99	Outer_Full	11.66	/	/	<=13	Pass
CP-OFDM 64 QAM	3465	Outer_Full	11.60	/	/	<=13	Pass
	3499.995	Outer_Full	11.90	/	/	<=13	Pass
	3534.99	Outer_Full	11.83	/	/	<=13	Pass
CP-OFDM 256 QAM	3465	Outer_Full	11.94	/	/	<=13	Pass
	3499.995	Outer_Full	11.90	/	/	<=13	Pass
	3534.99	Outer_Full	11.92	/	/	<=13	Pass

9.5.2 Test Graph



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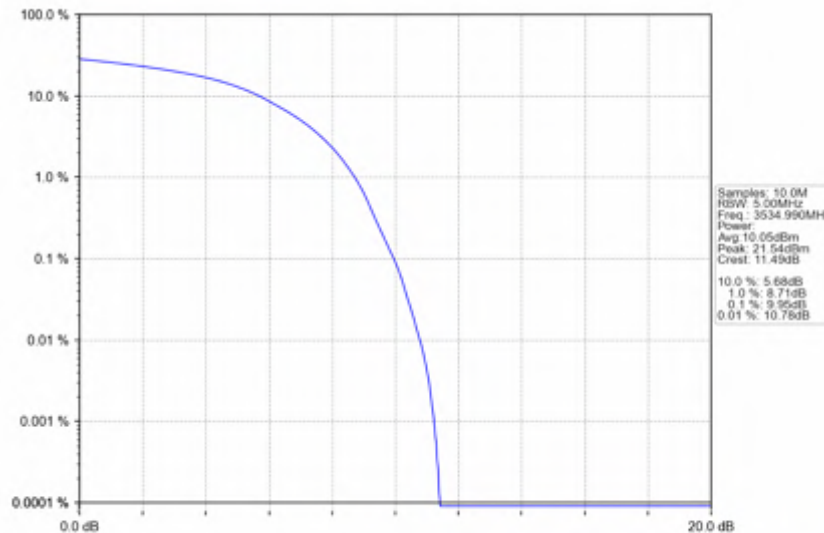
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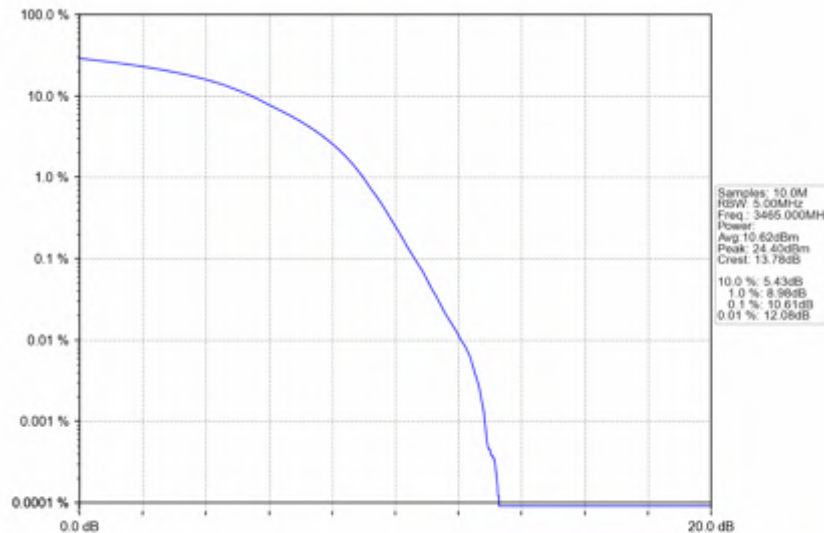
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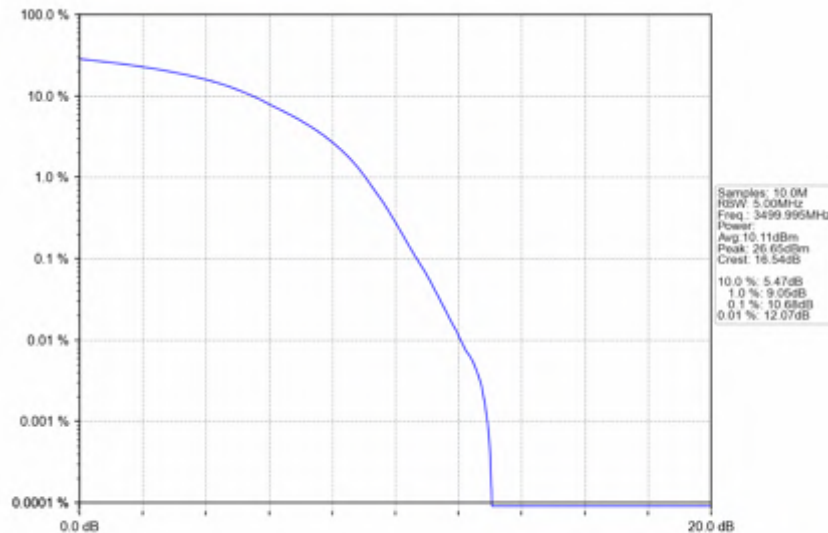


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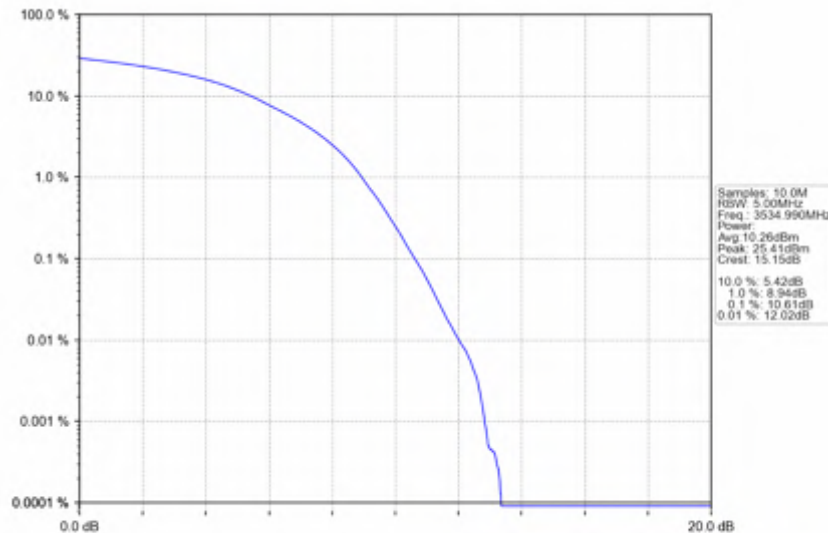
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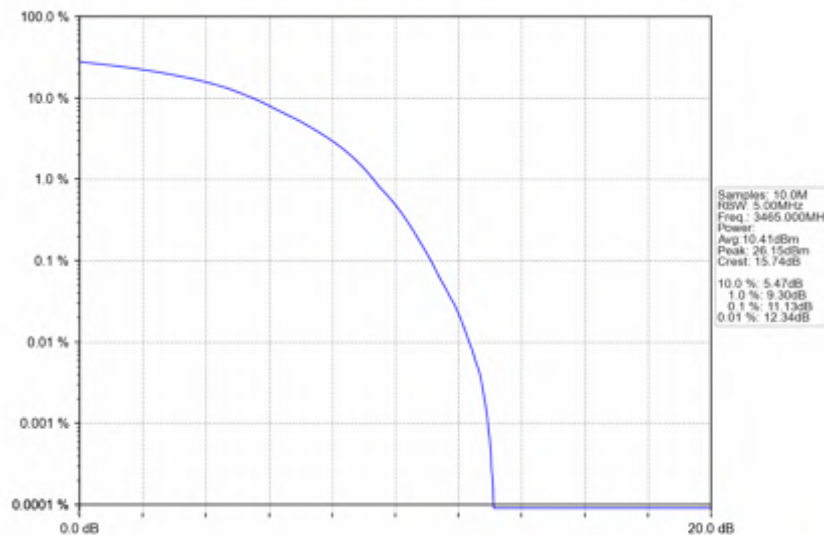


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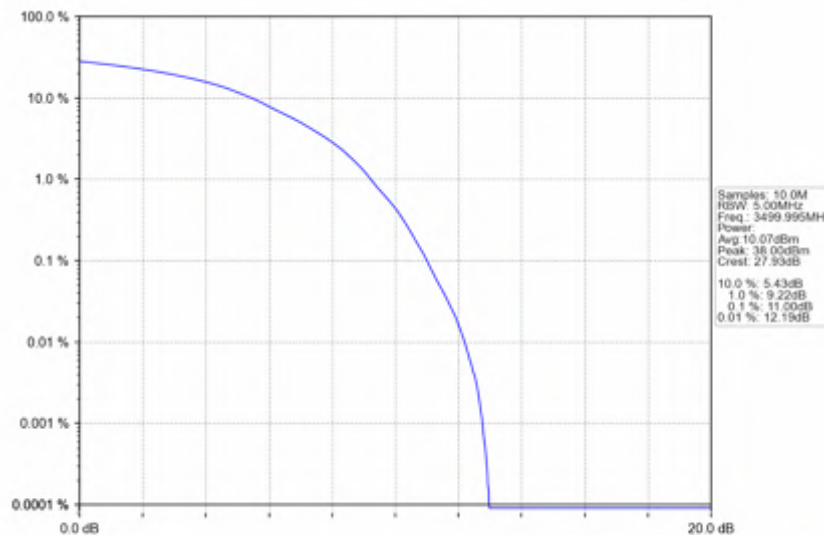
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n78e_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_3465MHz_Outer_Full



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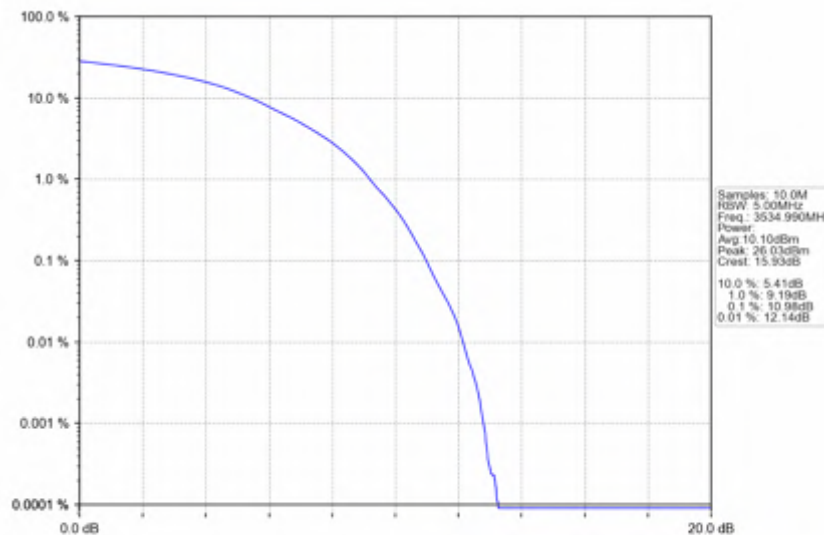
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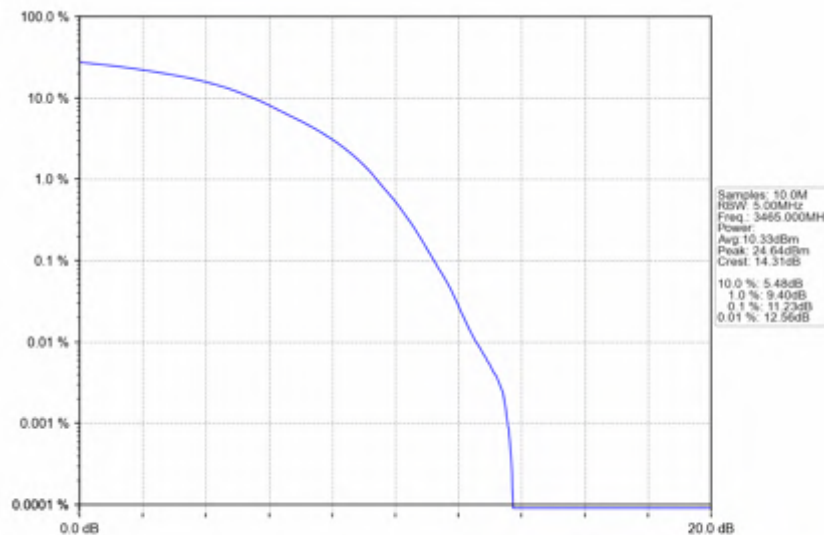
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n78e_15kHz_SISO_NTV_30MHz_DFT-s-OFDM 16 QAM_3534.99MHz_Outer_Full



n78e_15kHz_SISO_NTV_30MHz_DFT-s-OFDM 64 QAM_3465MHz_Outer_Full



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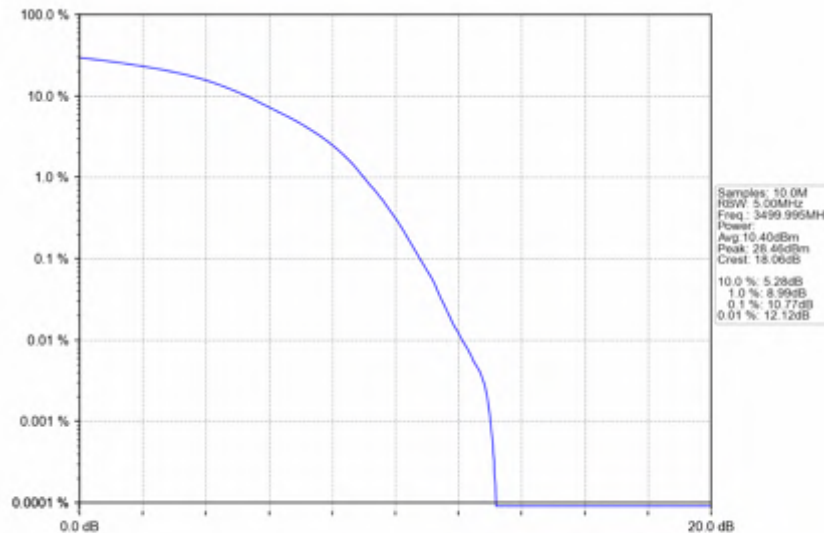
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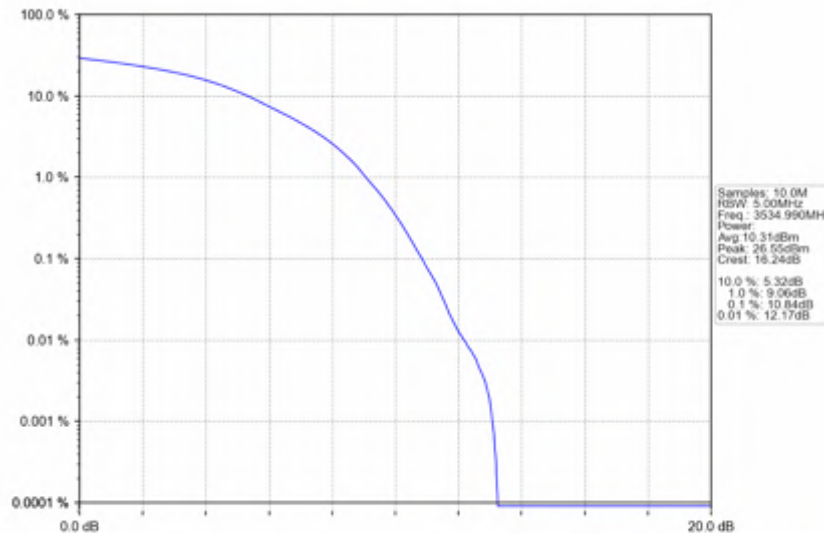
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n78e_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_3499.995MHz_Outer_Full



n78e_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_3534.99MHz_Outer_Full

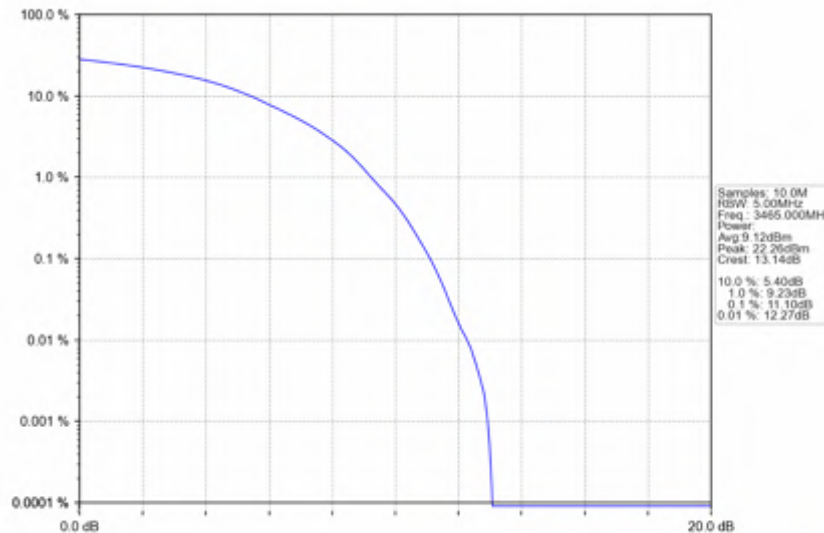


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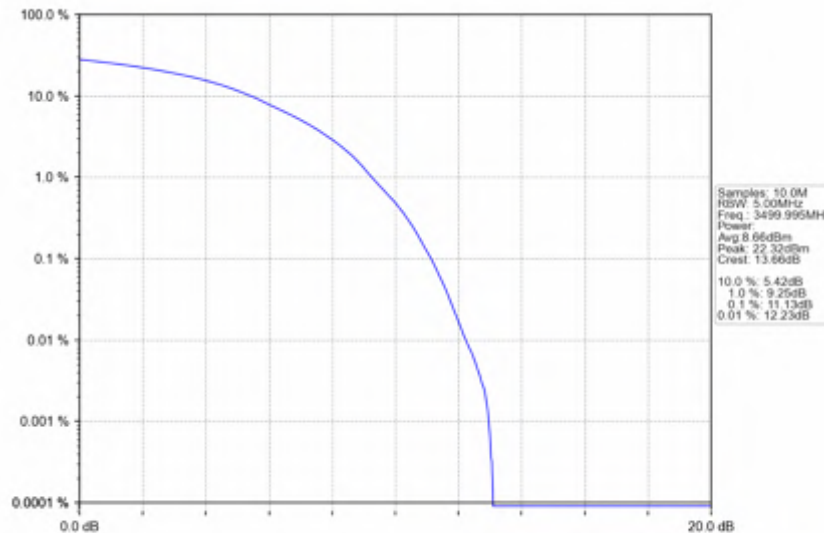
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n78e_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_3465MHz_Outer_Full



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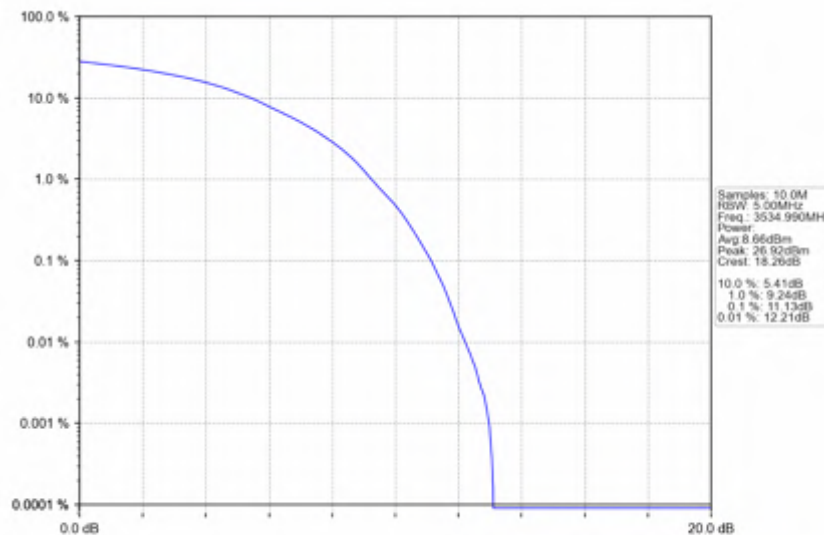
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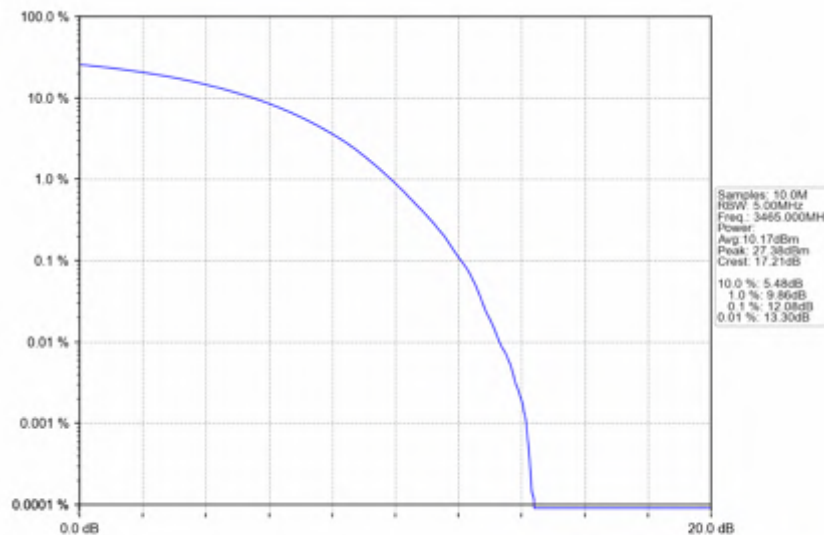
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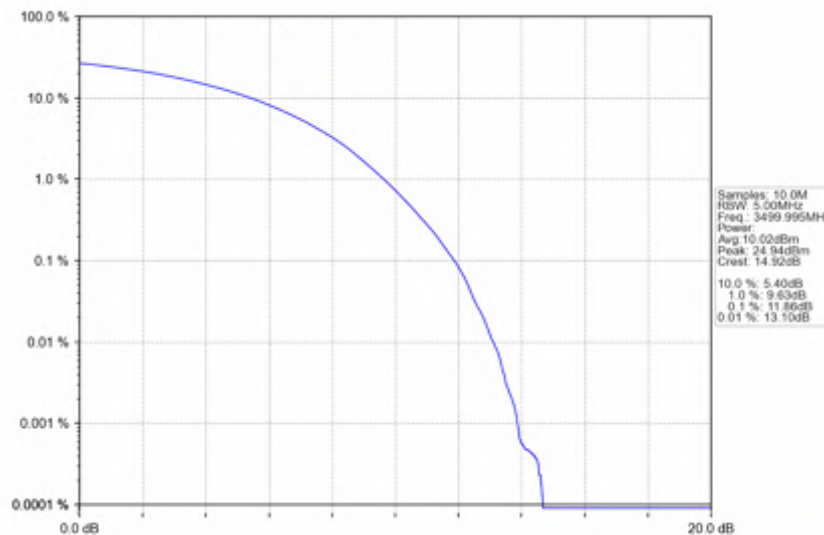
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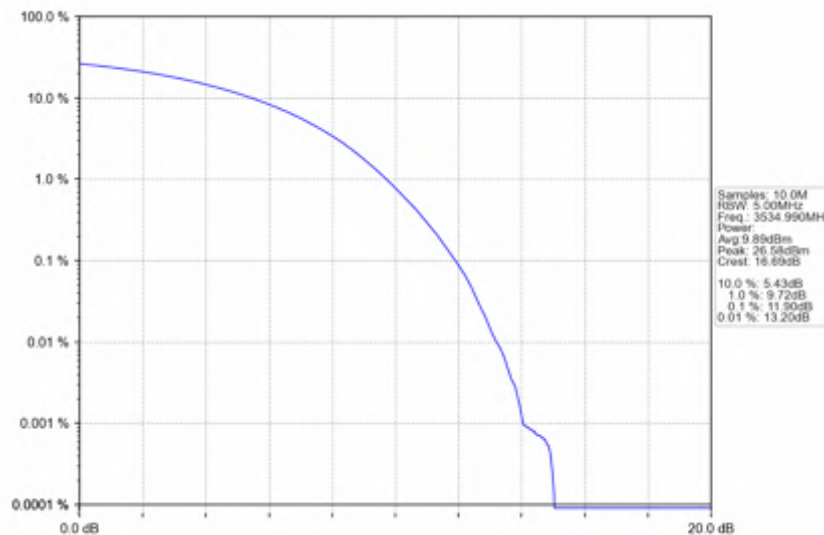
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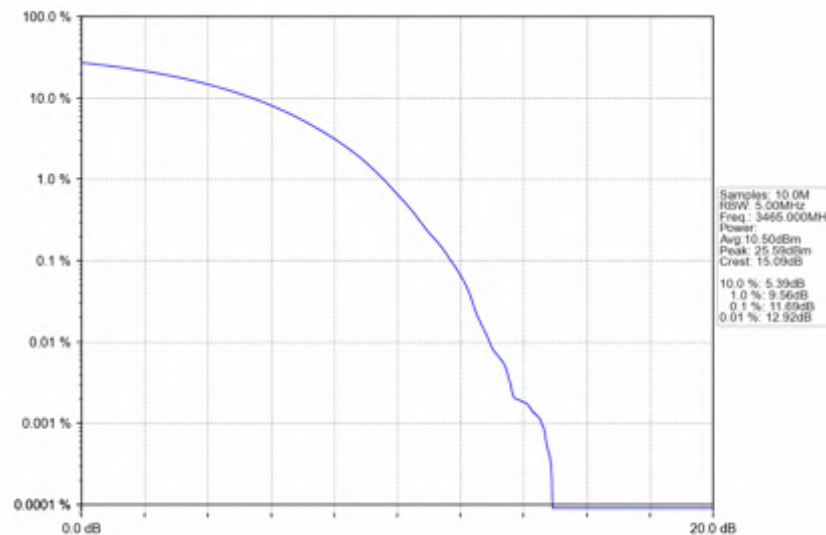
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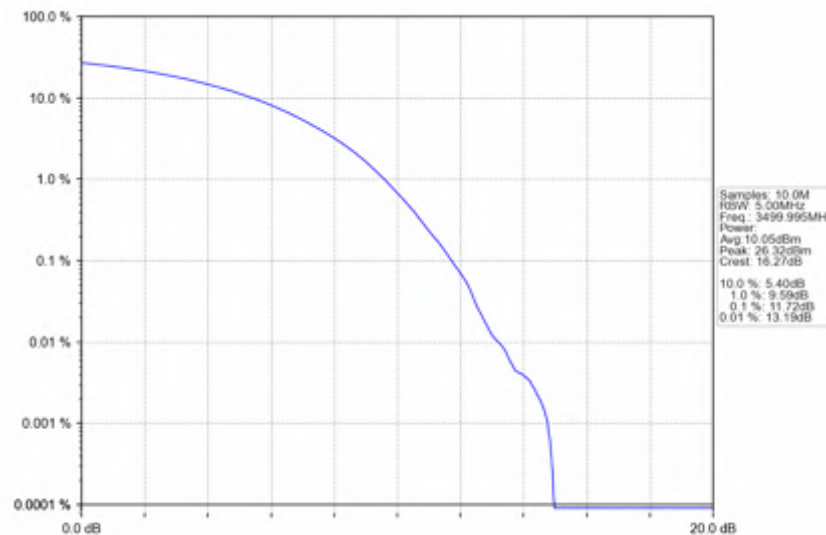
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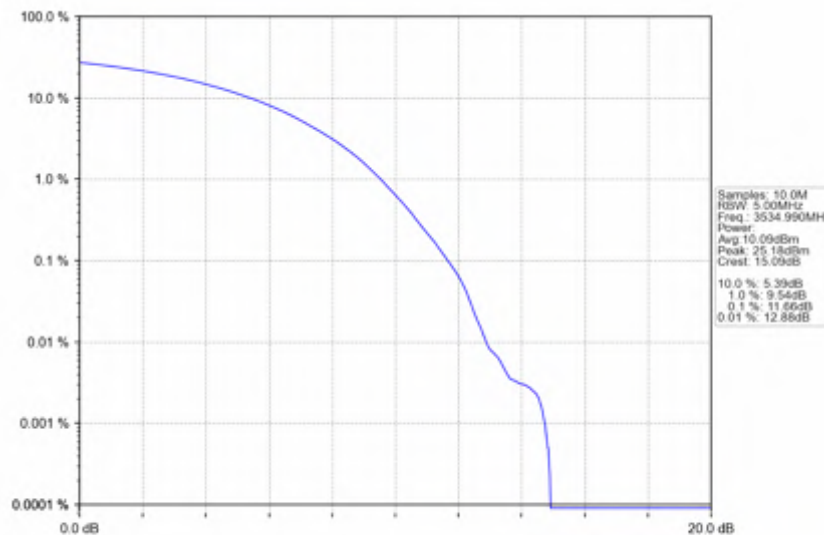


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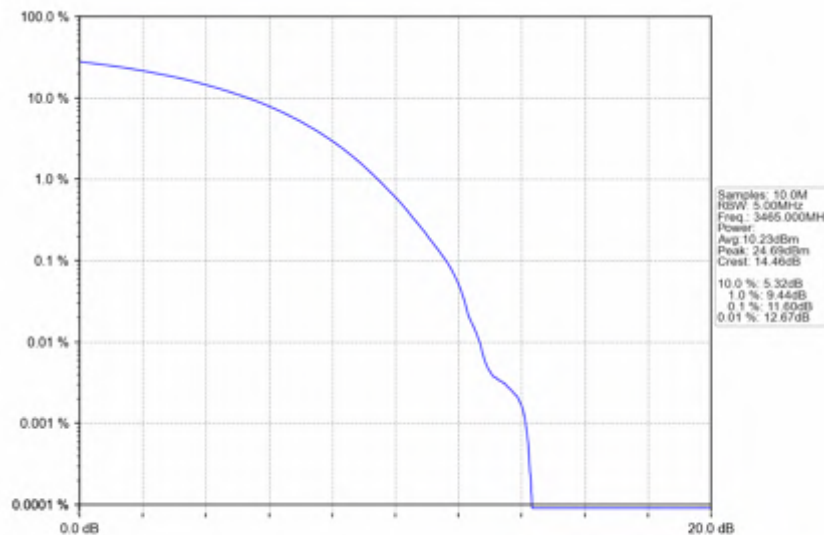
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n78e_15kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_3465MHz_Outer_Full

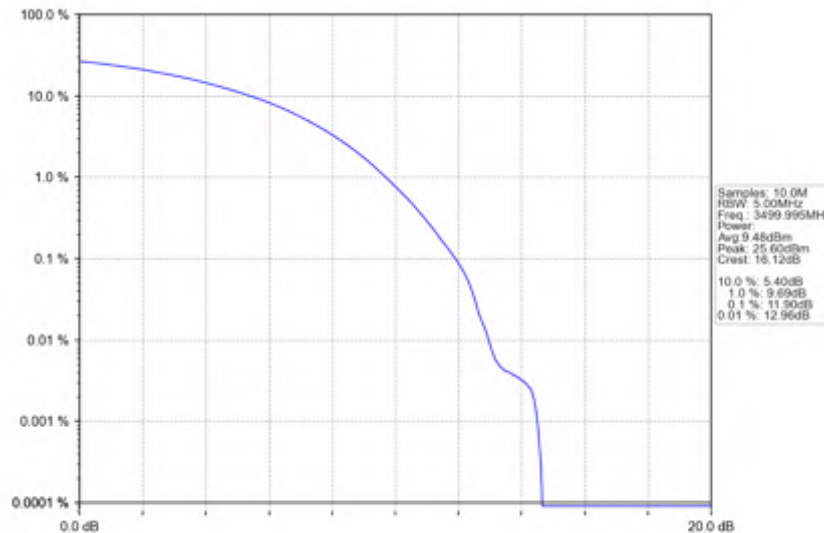


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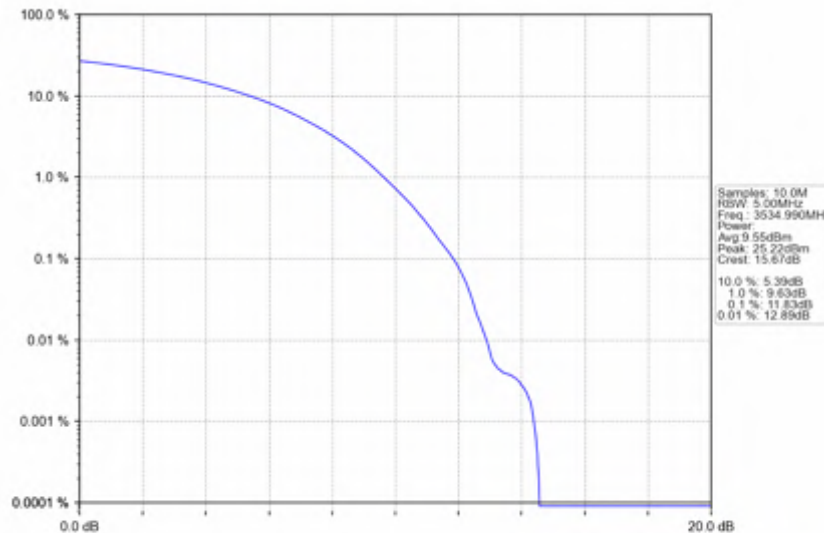
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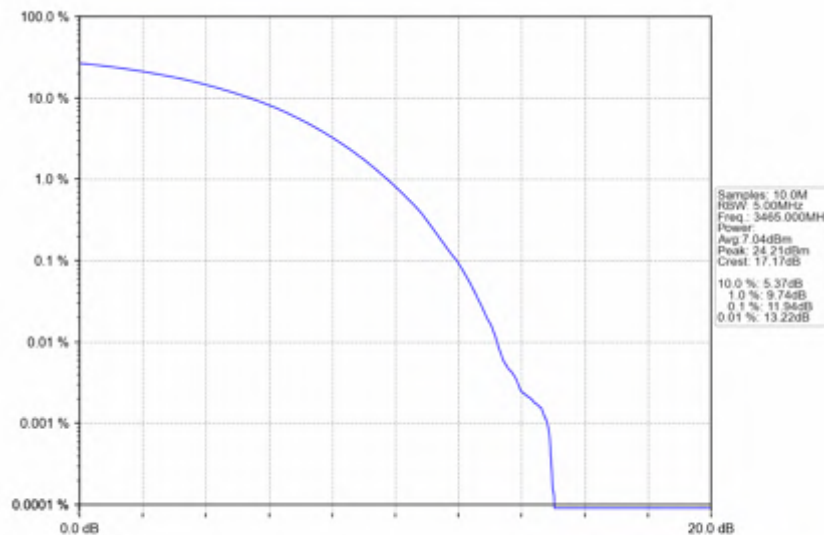


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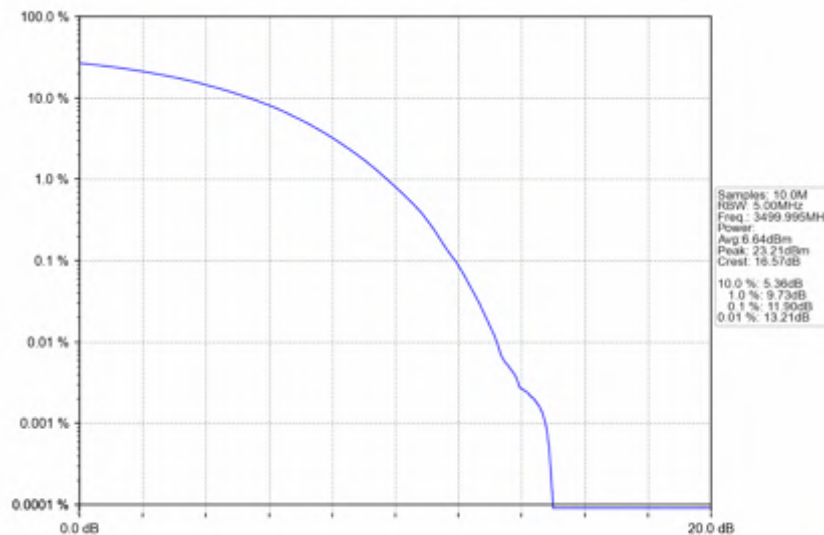
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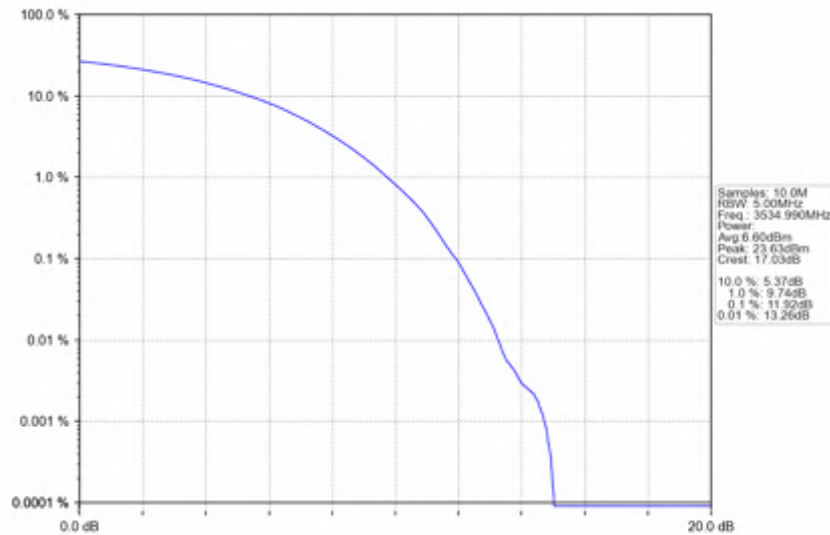
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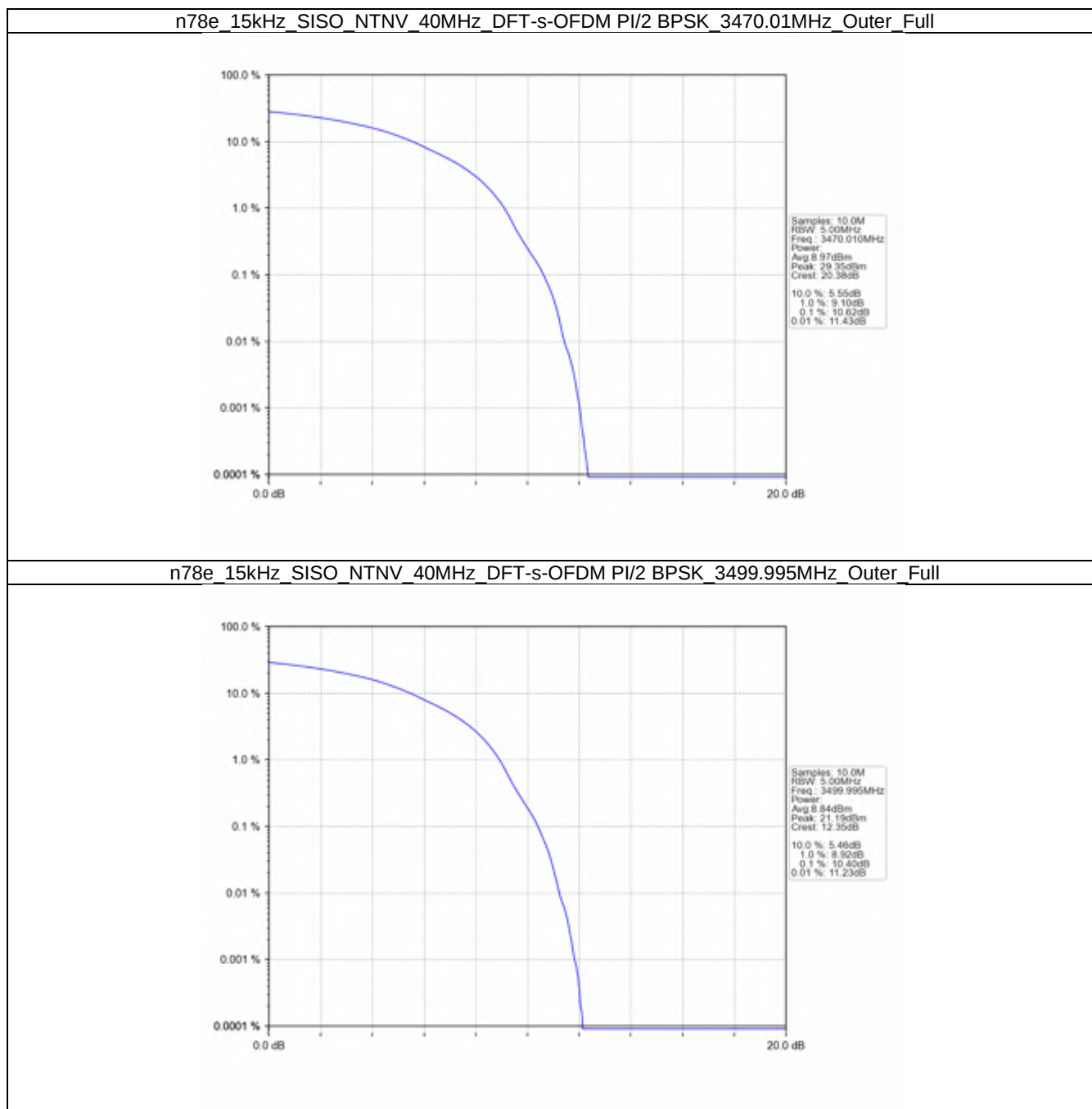
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9.6 15k_SISO_40MHz_NTNV

9.6.1 Test Result

5G NR n78e SCS=15kHz SISO 40MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3470.01	Outer_Full	10.62	/	/	<=13	Pass
	3499.995	Outer_Full	10.40	/	/	<=13	Pass
	3529.995	Outer_Full	10.95	/	/	<=13	Pass
DFT-s-OFDM QPSK	3470.01	Outer_Full	10.88	/	/	<=13	Pass
	3499.995	Outer_Full	11.16	/	/	<=13	Pass
	3529.995	Outer_Full	11.60	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3470.01	Outer_Full	11.23	/	/	<=13	Pass
	3499.995	Outer_Full	11.49	/	/	<=13	Pass
	3529.995	Outer_Full	11.85	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3470.01	Outer_Full	10.94	/	/	<=13	Pass
	3499.995	Outer_Full	11.37	/	/	<=13	Pass
	3529.995	Outer_Full	11.55	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3470.01	Outer_Full	11.41	/	/	<=13	Pass
	3499.995	Outer_Full	11.29	/	/	<=13	Pass
	3529.995	Outer_Full	11.51	/	/	<=13	Pass
CP-OFDM QPSK	3470.01	Outer_Full	11.75	/	/	<=13	Pass
	3499.995	Outer_Full	11.75	/	/	<=13	Pass
	3529.995	Outer_Full	12.13	/	/	<=13	Pass
CP-OFDM 16 QAM	3470.01	Outer_Full	11.93	/	/	<=13	Pass
	3499.995	Outer_Full	12.14	/	/	<=13	Pass
	3529.995	Outer_Full	12.24	/	/	<=13	Pass
CP-OFDM 64 QAM	3470.01	Outer_Full	11.79	/	/	<=13	Pass
	3499.995	Outer_Full	12.05	/	/	<=13	Pass
	3529.995	Outer_Full	12.12	/	/	<=13	Pass
CP-OFDM 256 QAM	3470.01	Outer_Full	11.91	/	/	<=13	Pass
	3499.995	Outer_Full	12.33	/	/	<=13	Pass
	3529.995	Outer_Full	11.94	/	/	<=13	Pass

9.6.2 Test Graph



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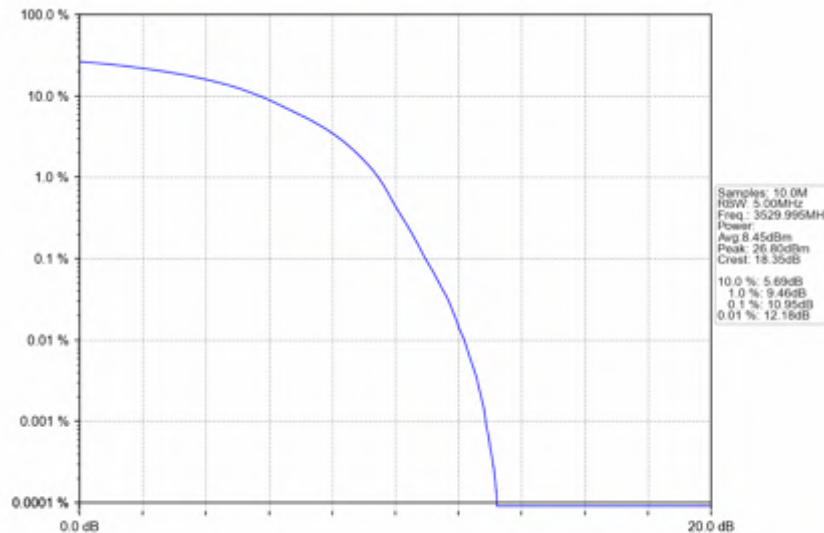
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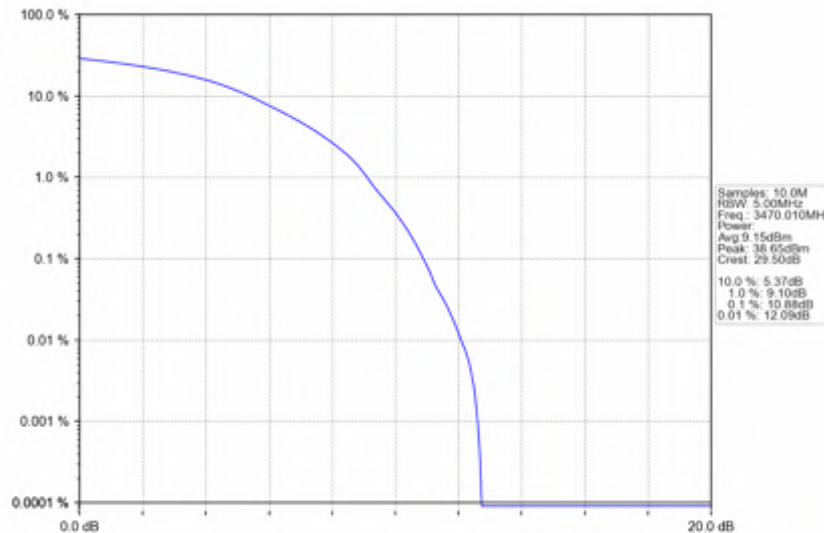
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n78e_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_PI/2_BPSK_3529.995MHz_Outer_Full



n78e_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_QPSK_3470.01MHz_Outer_Full



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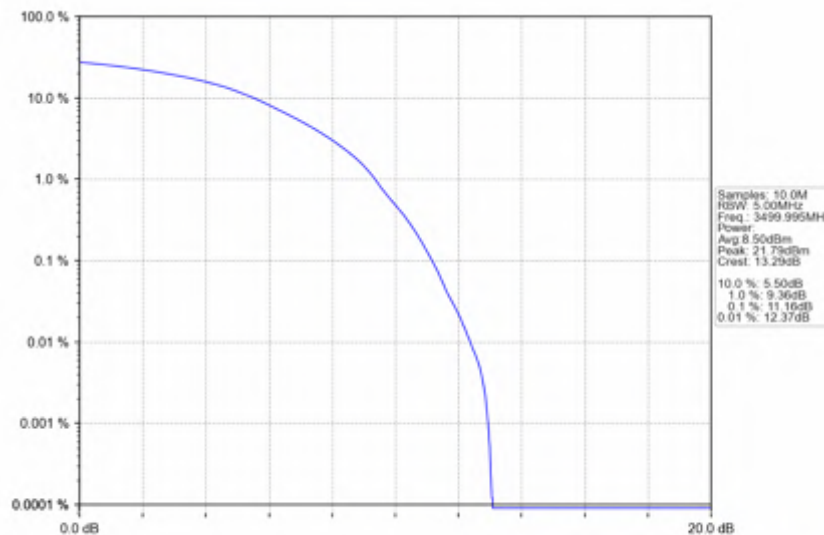
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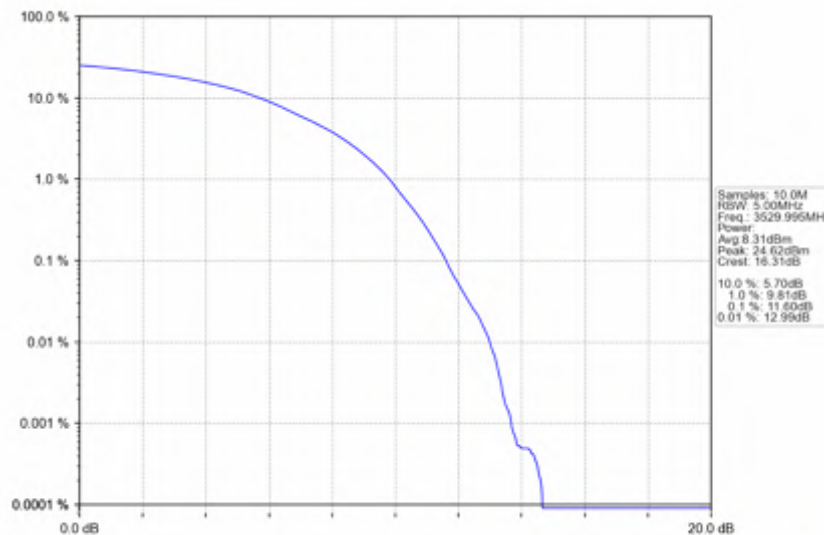
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n78e_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3499.995MHz_Outer_Full



n78e_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3529.995MHz_Outer_Full



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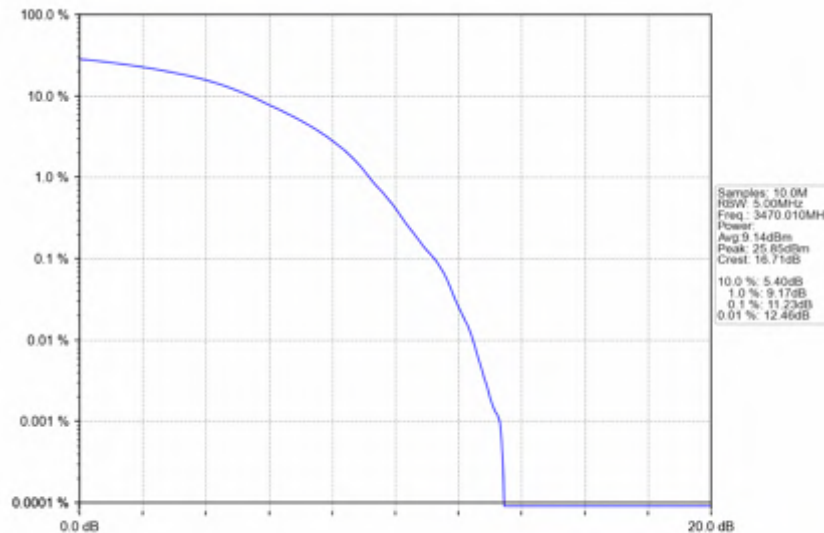
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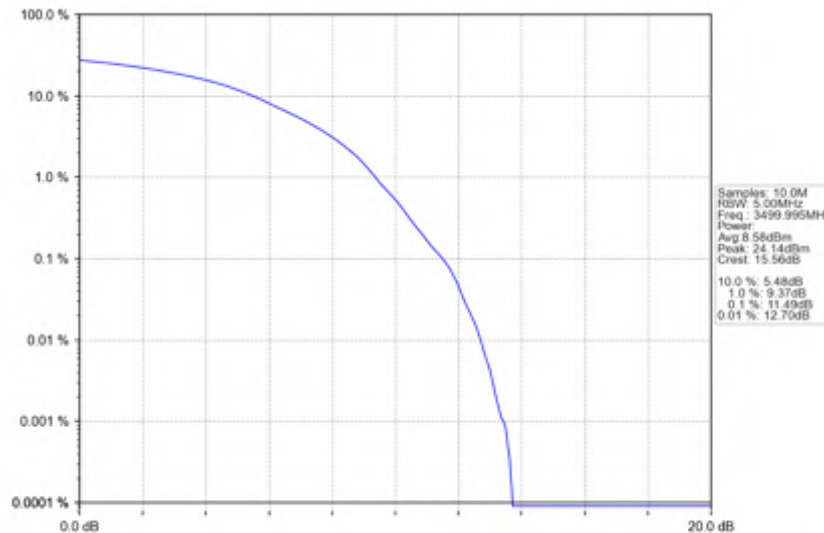
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n78e_15kHz_SISO_NTV_40MHz_DFT-s-OFDM_16_QAM_3470.01MHz_Outer_Full



n78e_15kHz_SISO_NTV_40MHz_DFT-s-OFDM_16_QAM_3499.995MHz_Outer_Full



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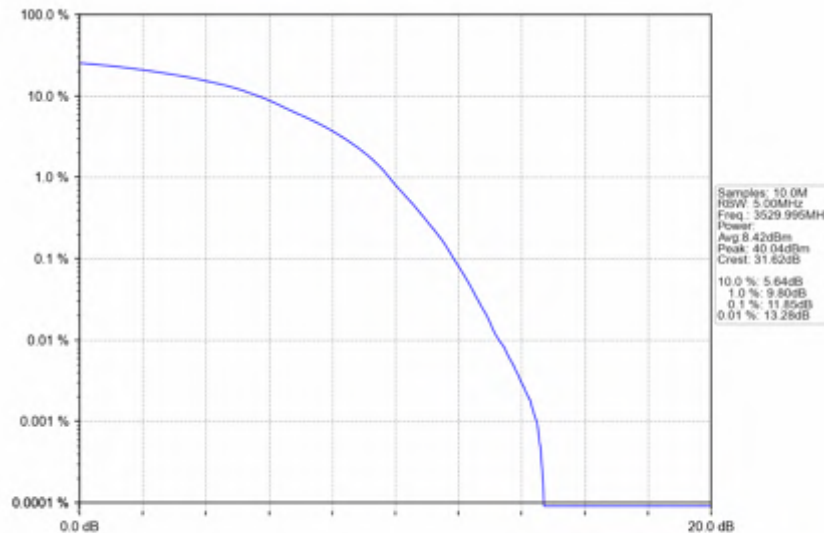
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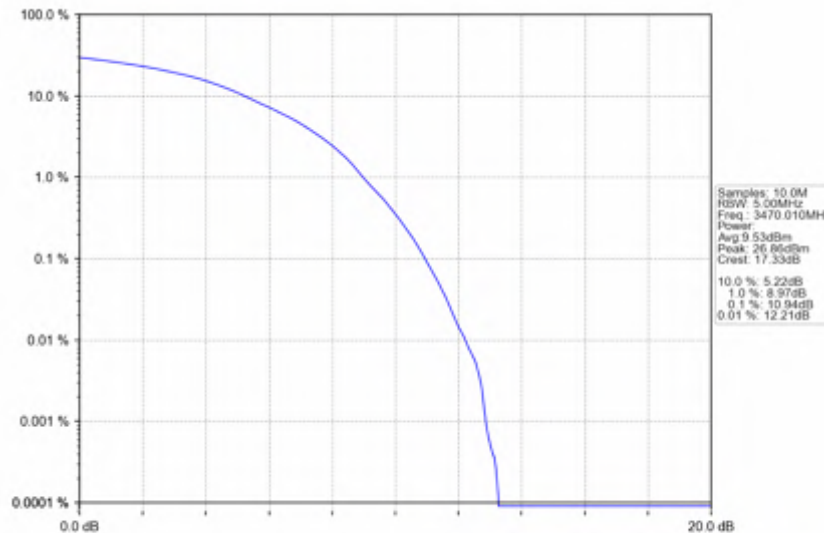
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n78e_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_3529.995MHz_Outer_Full



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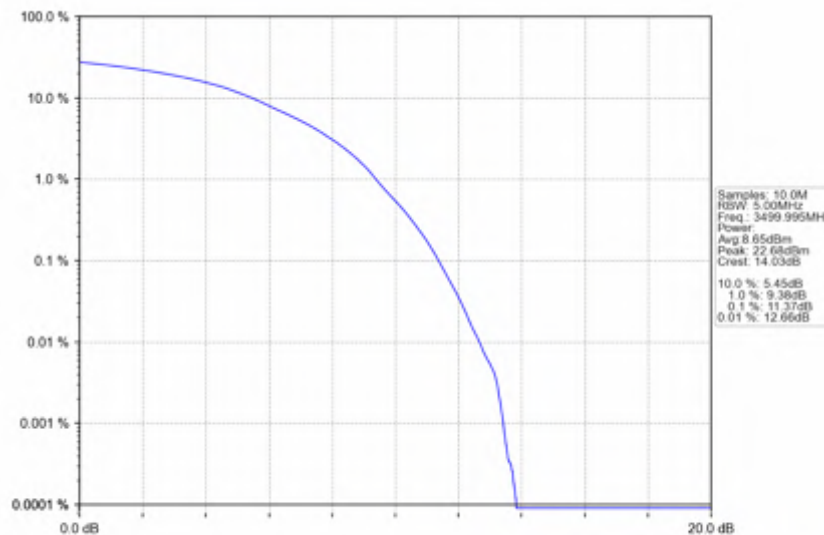
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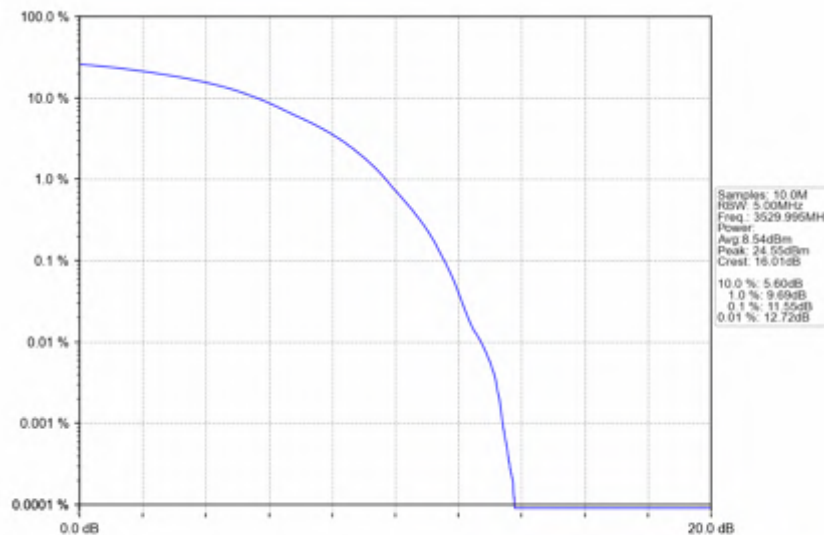
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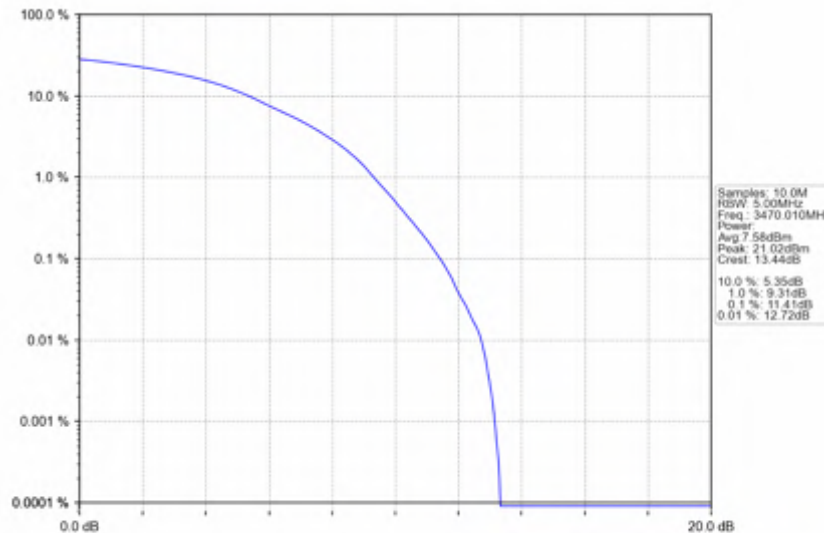


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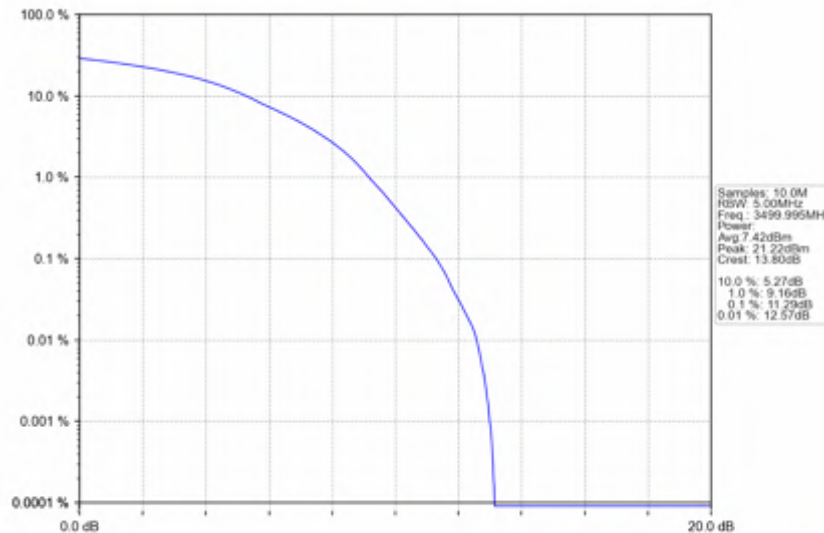
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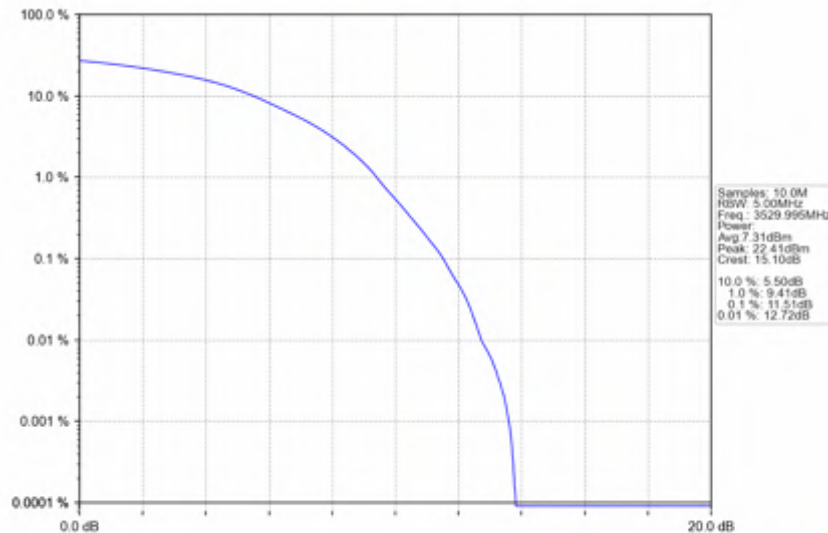


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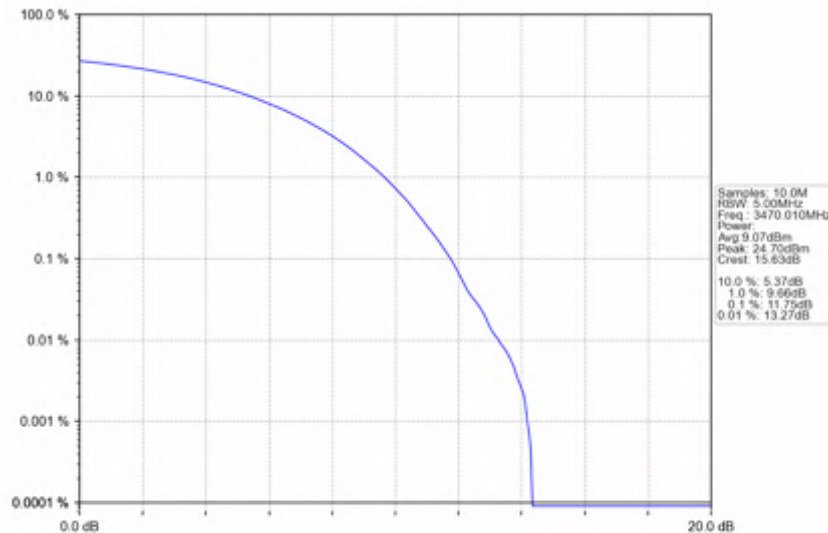
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n78e_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM_3529.995MHz_Outer_Full



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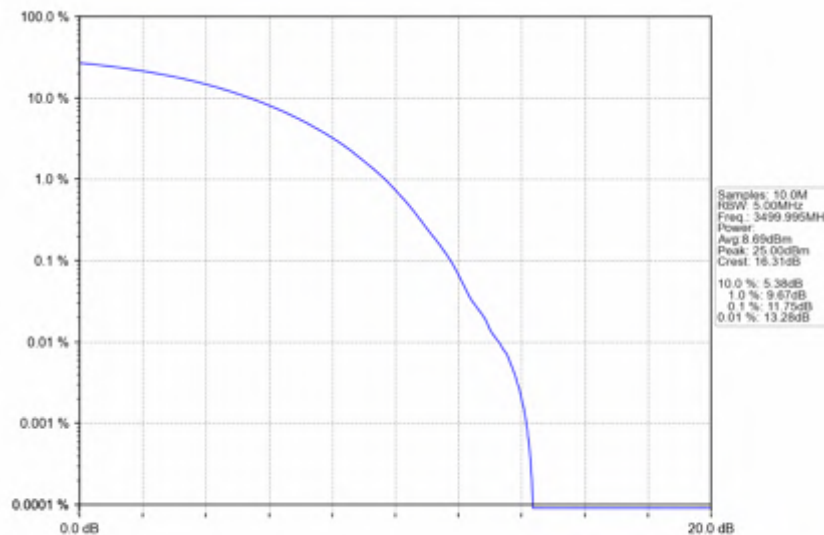


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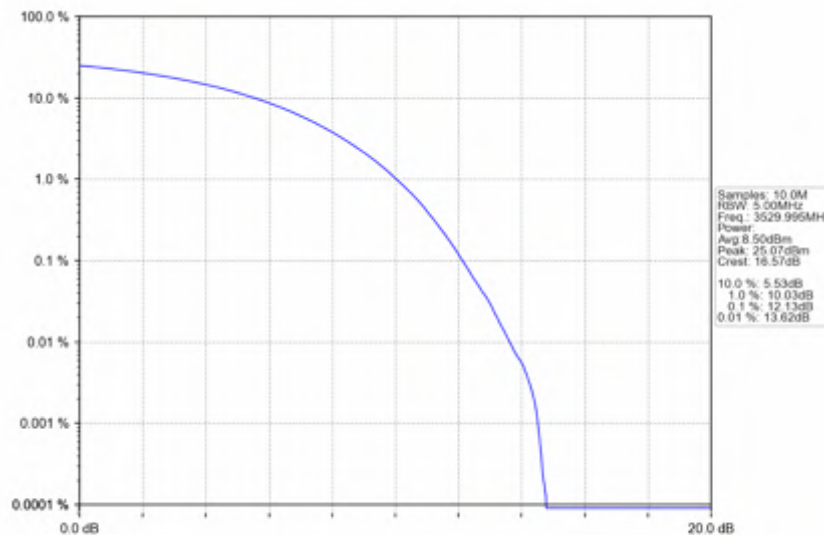
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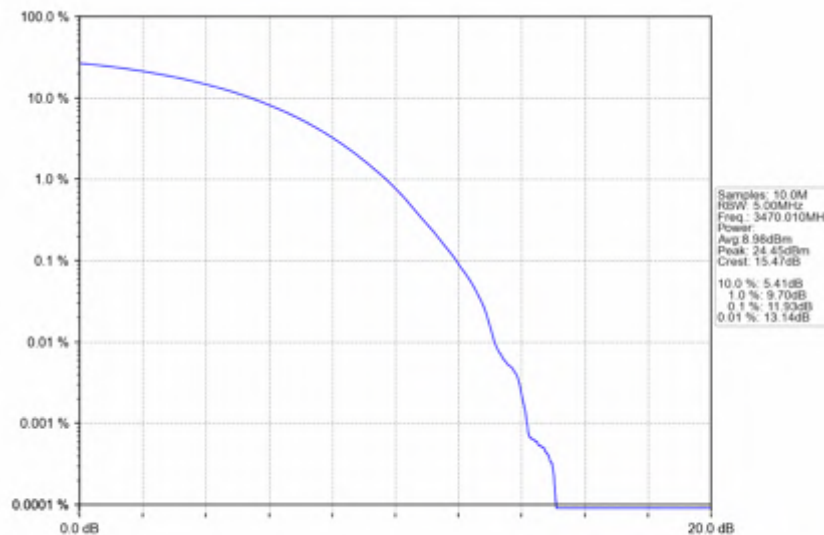


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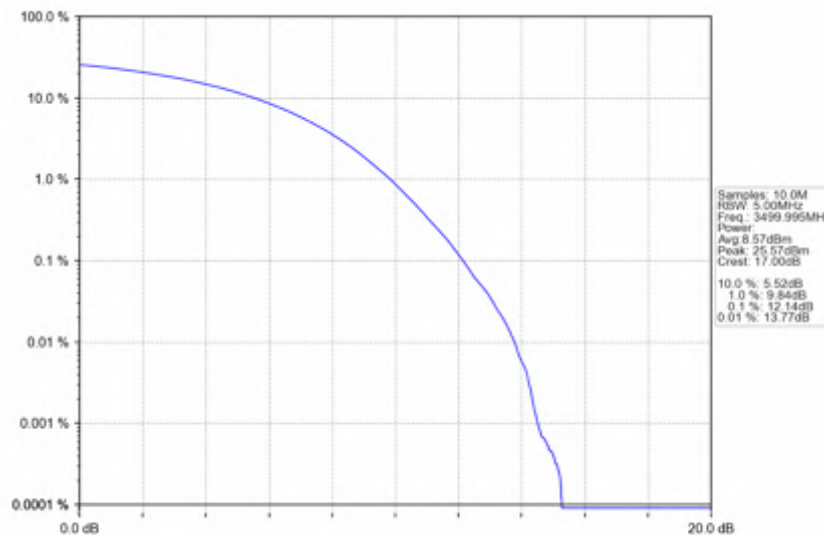
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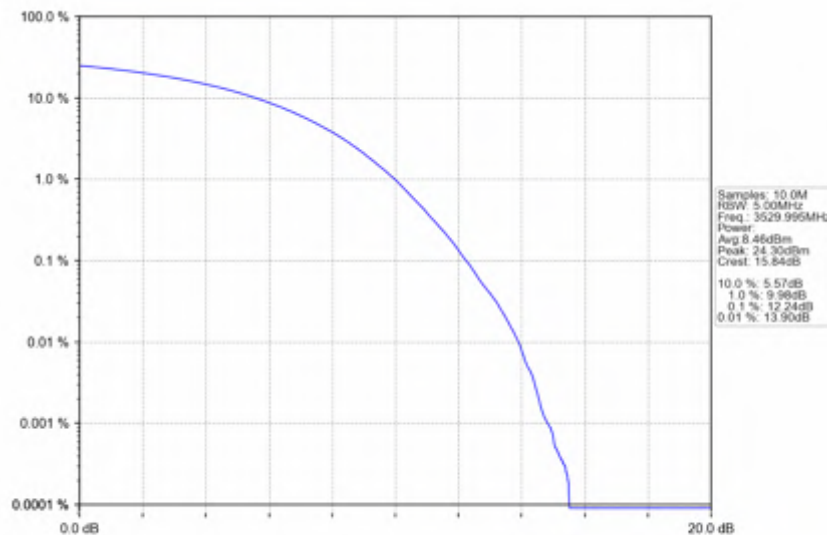
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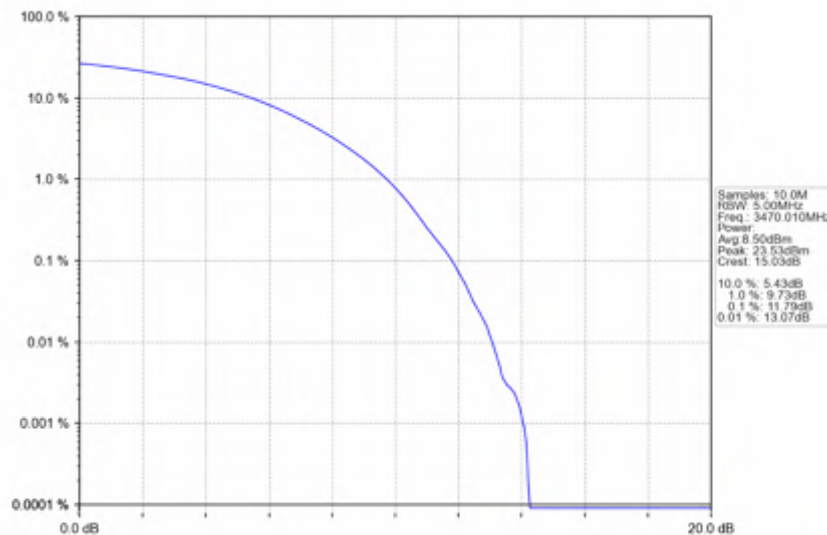
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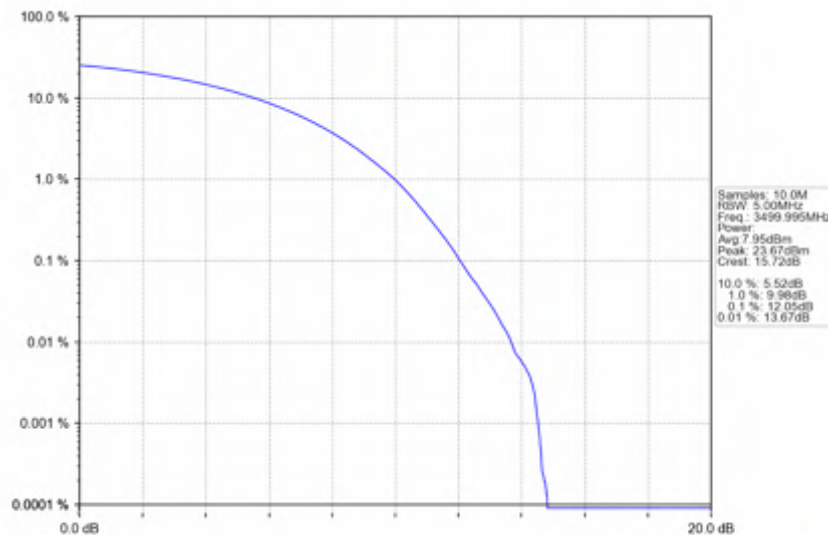


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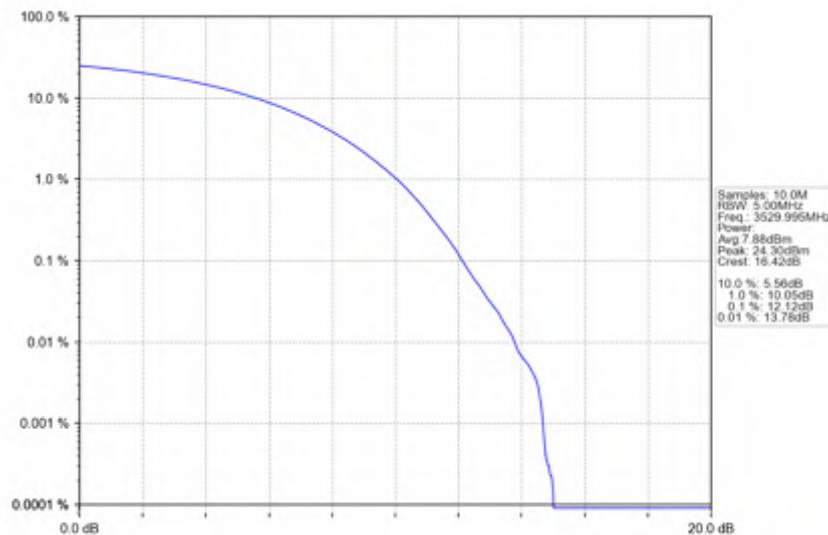
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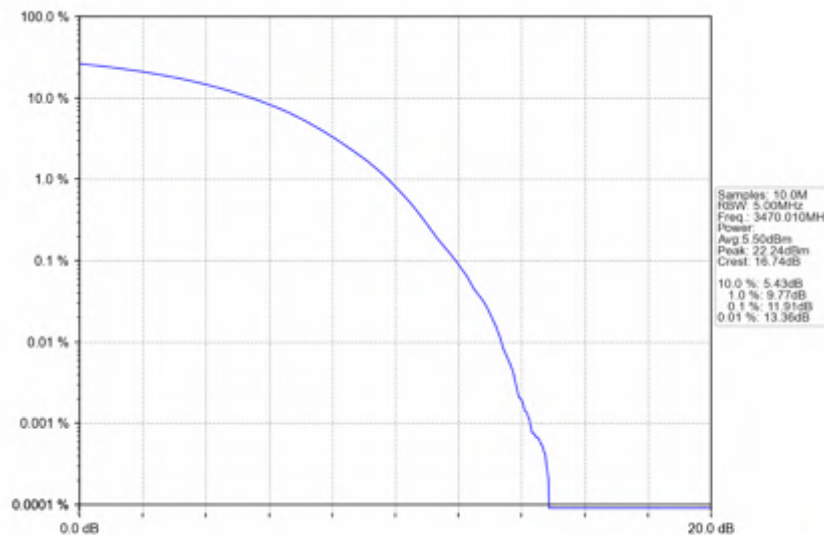
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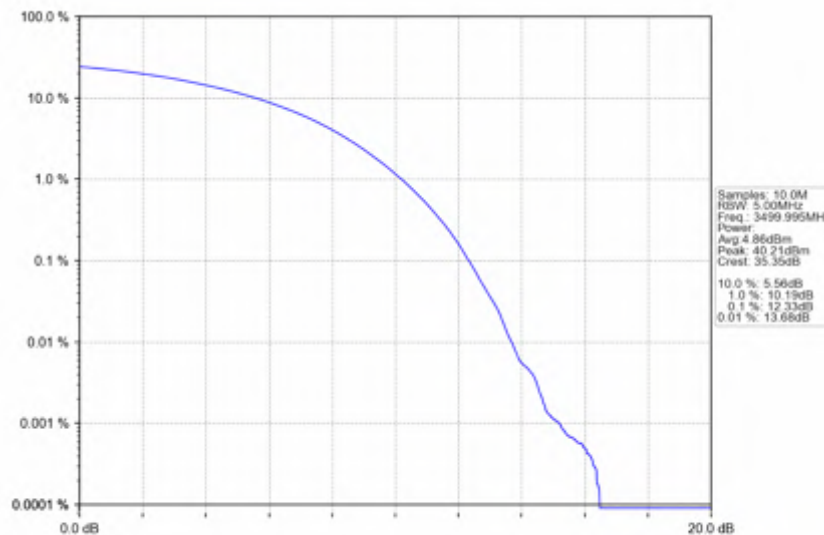
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n78e_15kHz_SISO_NTNV_40MHz_CP-OFDM_256_QAM_3499.995MHz_Outer_Full



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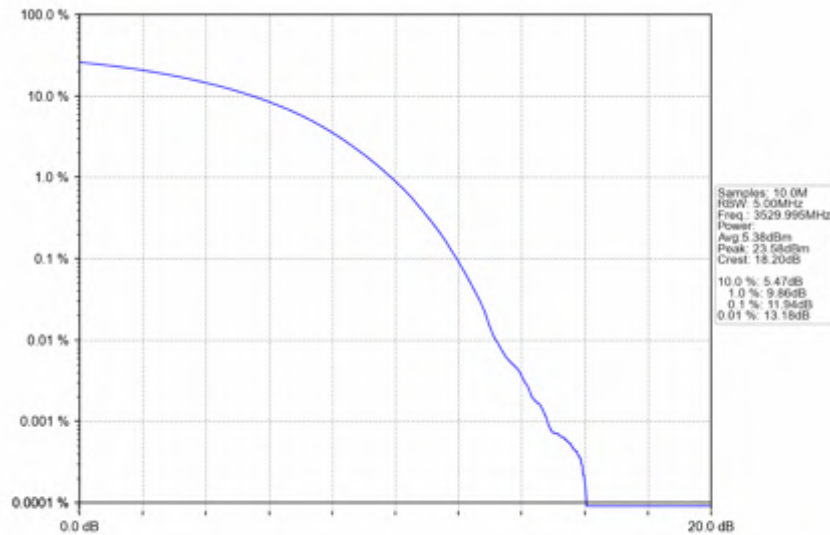
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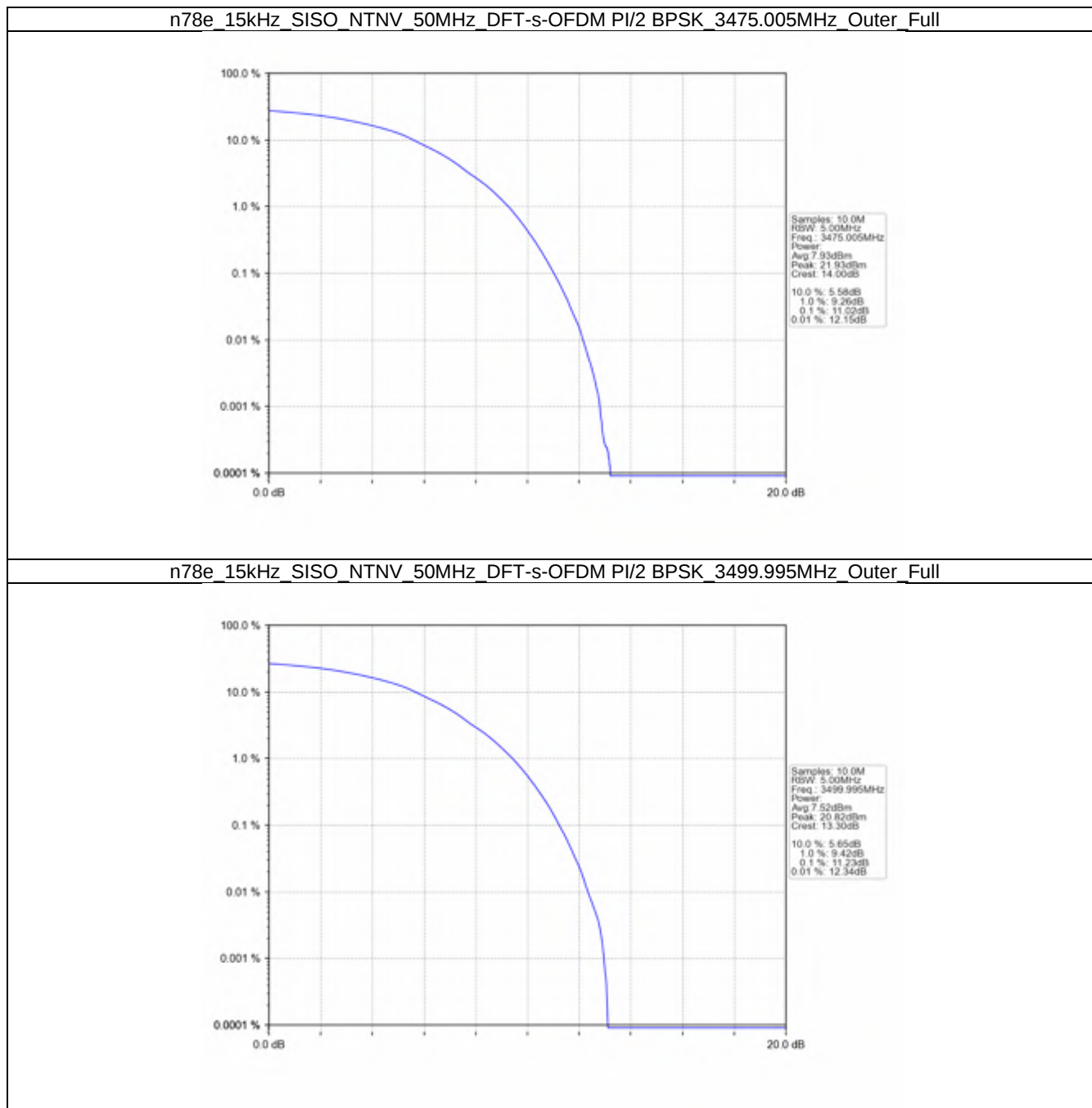
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9.7 15k_SISO_50MHz_NTNV

9.7.1 Test Result

5G NR n78e SCS=15kHz SISO 50MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3475.005	Outer_Full	11.02	/	/	<=13	Pass
	3499.995	Outer_Full	11.23	/	/	<=13	Pass
	3525	Outer_Full	10.93	/	/	<=13	Pass
DFT-s-OFDM QPSK	3475.005	Outer_Full	11.66	/	/	<=13	Pass
	3499.995	Outer_Full	11.55	/	/	<=13	Pass
	3525	Outer_Full	11.31	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3475.005	Outer_Full	11.53	/	/	<=13	Pass
	3499.995	Outer_Full	11.62	/	/	<=13	Pass
	3525	Outer_Full	11.43	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3475.005	Outer_Full	11.95	/	/	<=13	Pass
	3499.995	Outer_Full	11.85	/	/	<=13	Pass
	3525	Outer_Full	11.41	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3475.005	Outer_Full	11.89	/	/	<=13	Pass
	3499.995	Outer_Full	11.18	/	/	<=13	Pass
	3525	Outer_Full	11.41	/	/	<=13	Pass
CP-OFDM QPSK	3475.005	Outer_Full	12.19	/	/	<=13	Pass
	3499.995	Outer_Full	12.19	/	/	<=13	Pass
	3525	Outer_Full	12.07	/	/	<=13	Pass
CP-OFDM 16 QAM	3475.005	Outer_Full	12.26	/	/	<=13	Pass
	3499.995	Outer_Full	12.30	/	/	<=13	Pass
	3525	Outer_Full	12.11	/	/	<=13	Pass
CP-OFDM 64 QAM	3475.005	Outer_Full	12.30	/	/	<=13	Pass
	3499.995	Outer_Full	12.10	/	/	<=13	Pass
	3525	Outer_Full	12.11	/	/	<=13	Pass
CP-OFDM 256 QAM	3475.005	Outer_Full	12.33	/	/	<=13	Pass
	3499.995	Outer_Full	12.38	/	/	<=13	Pass
	3525	Outer_Full	12.21	/	/	<=13	Pass

9.7.2 Test Graph



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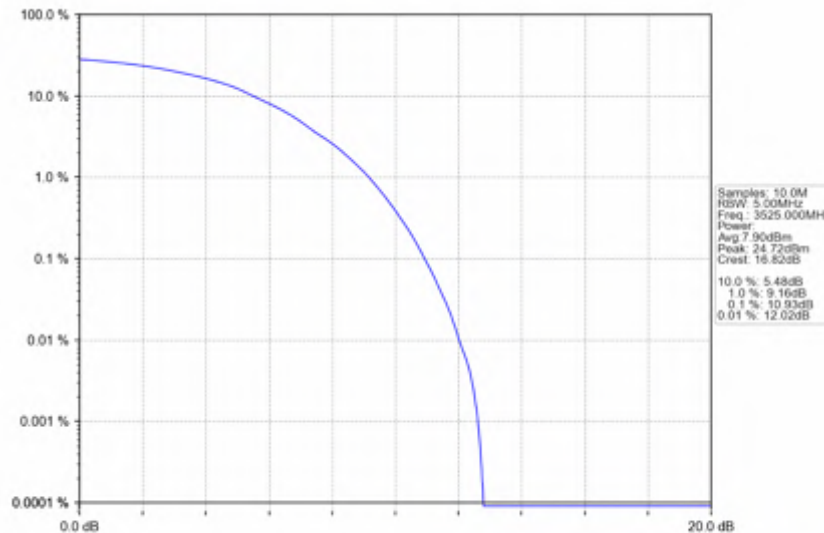
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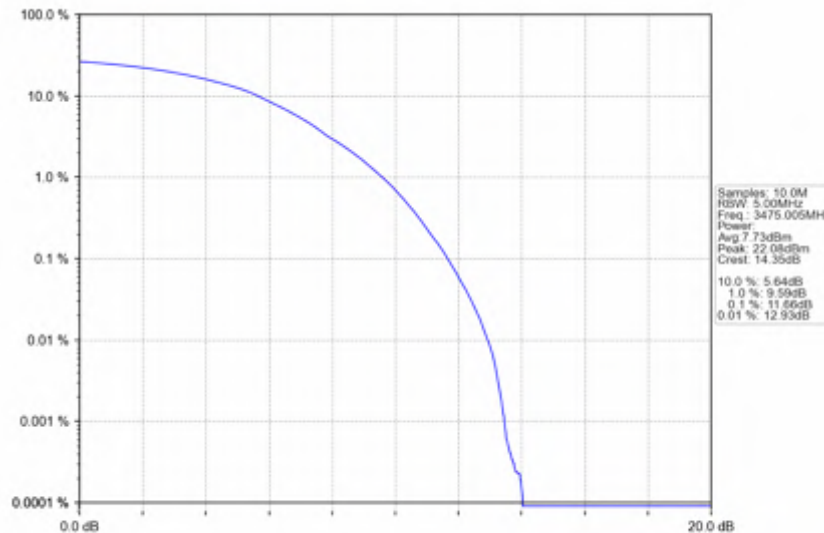
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n78e_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_QPSK_3475.005MHz_Outer_Full

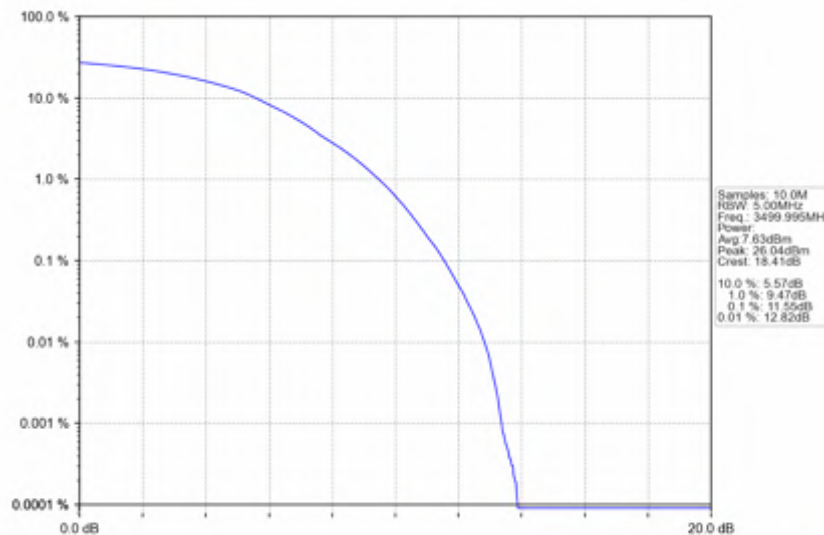


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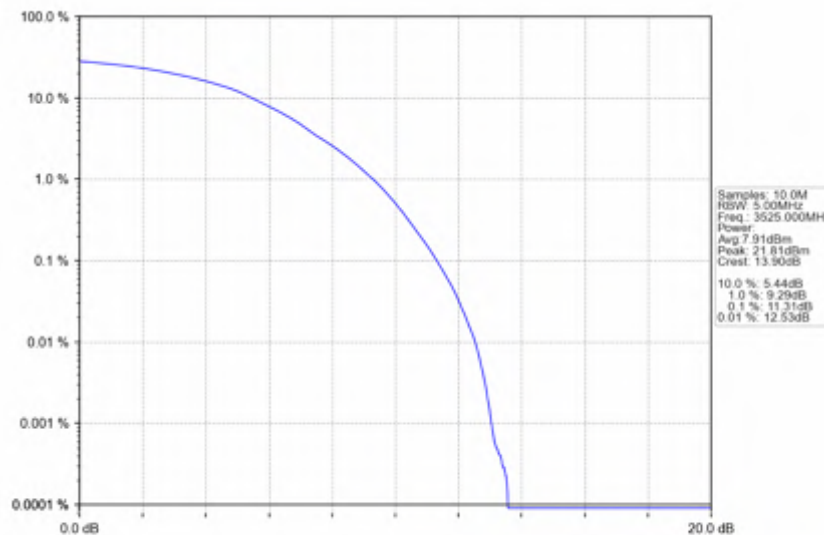
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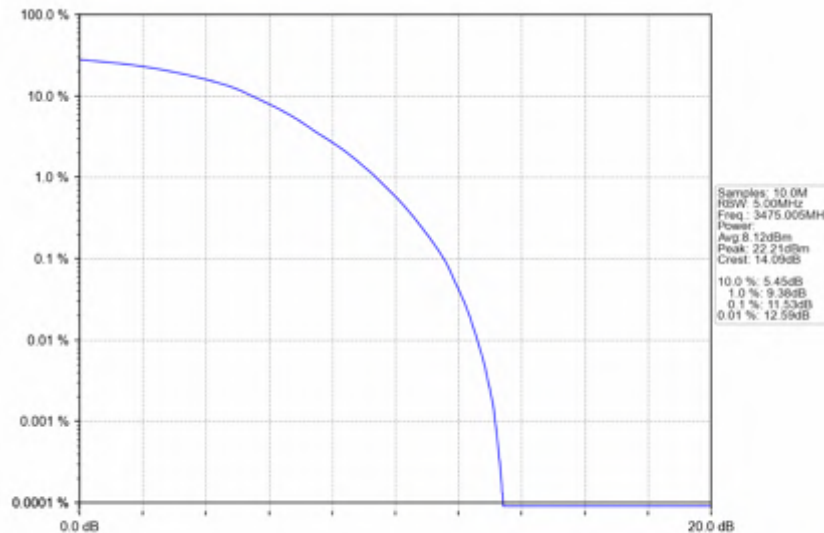
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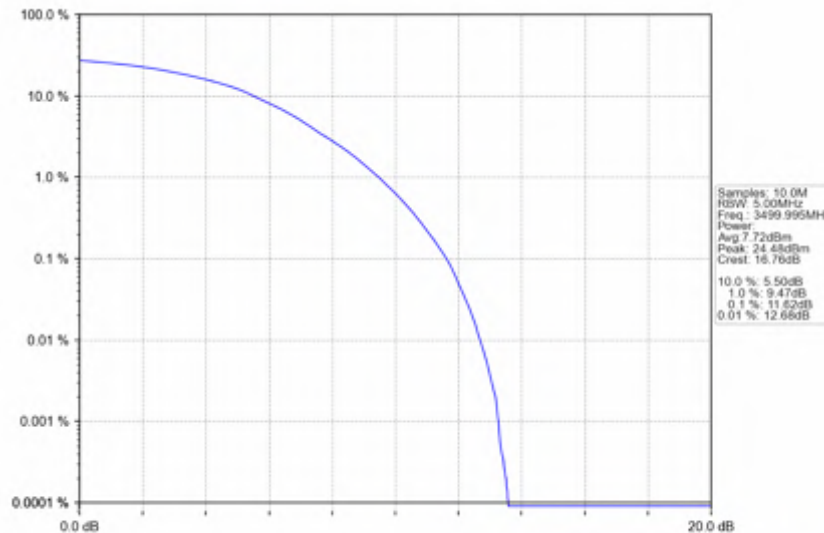
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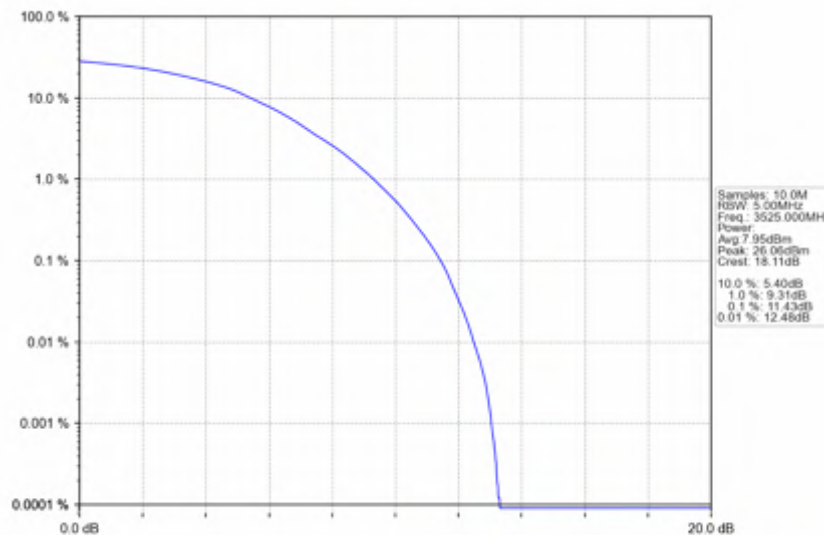


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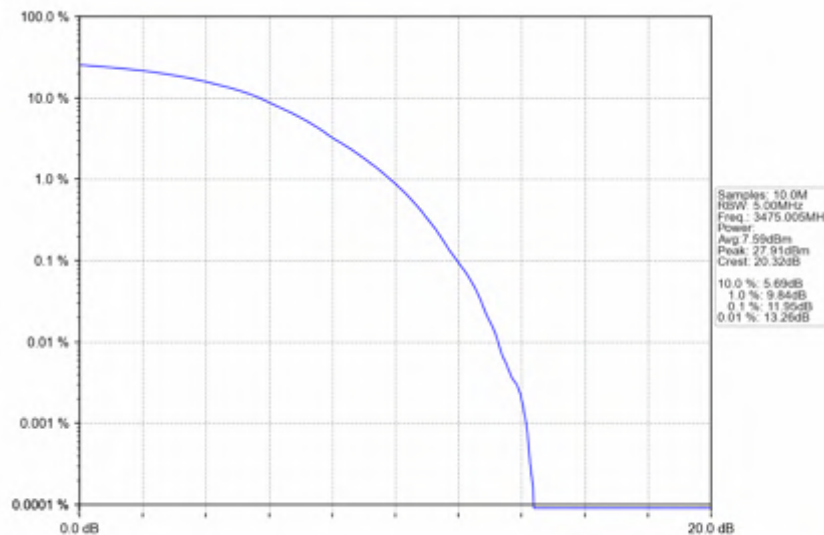
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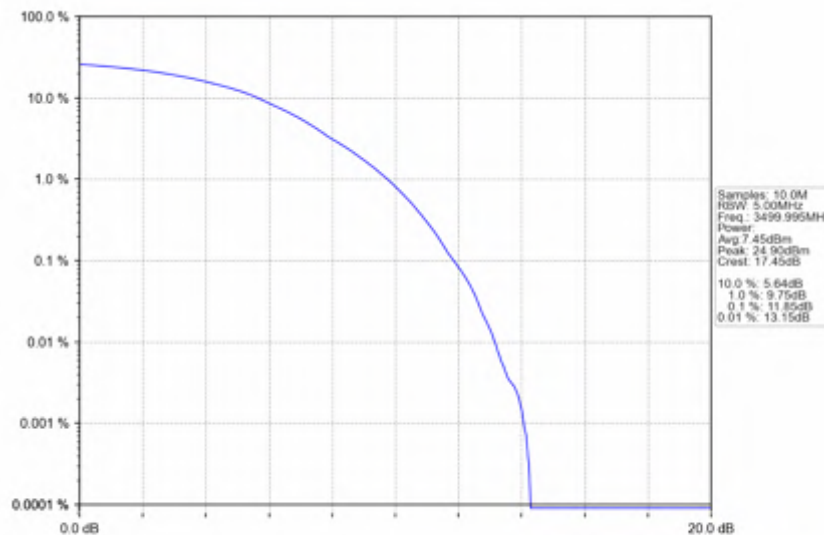
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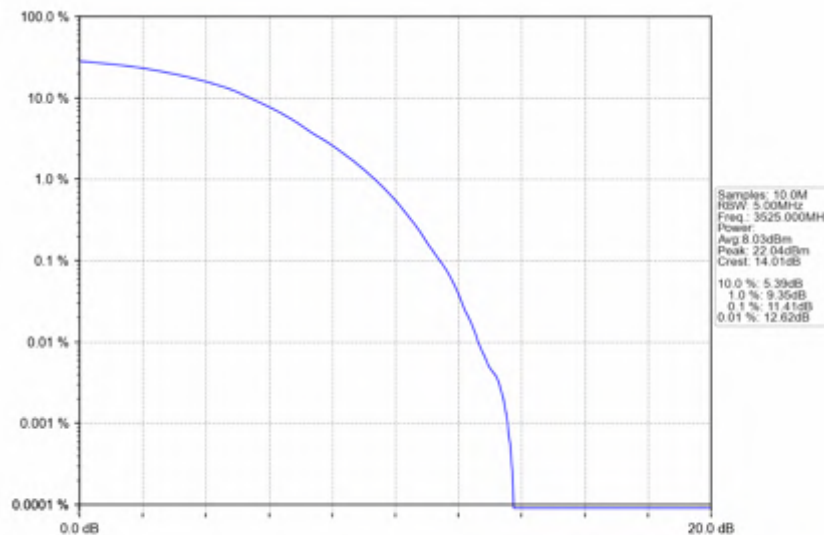
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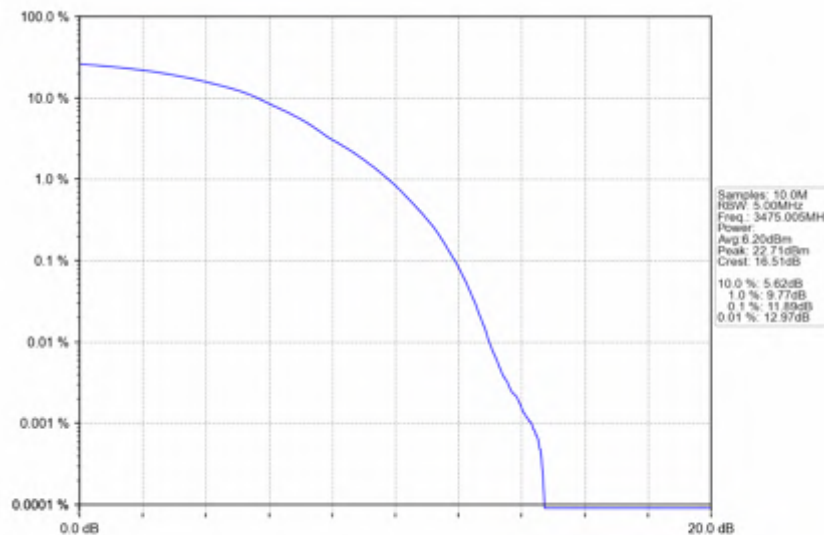
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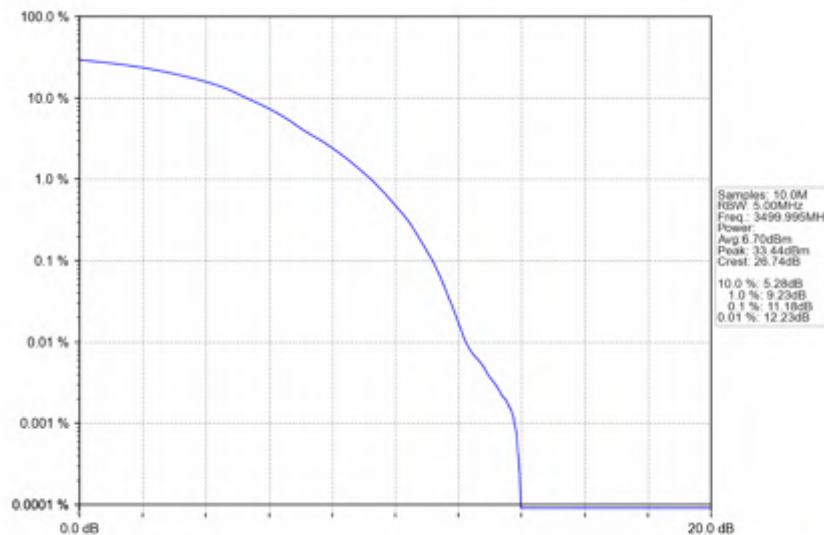
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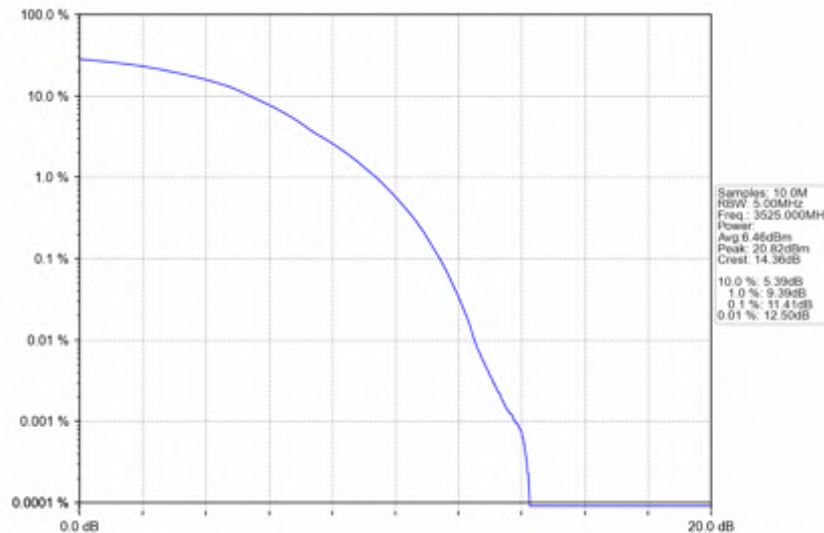


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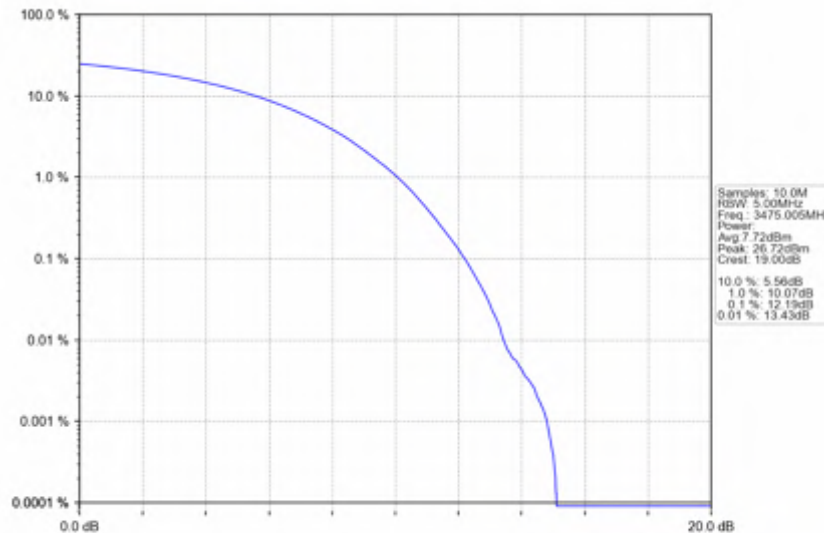
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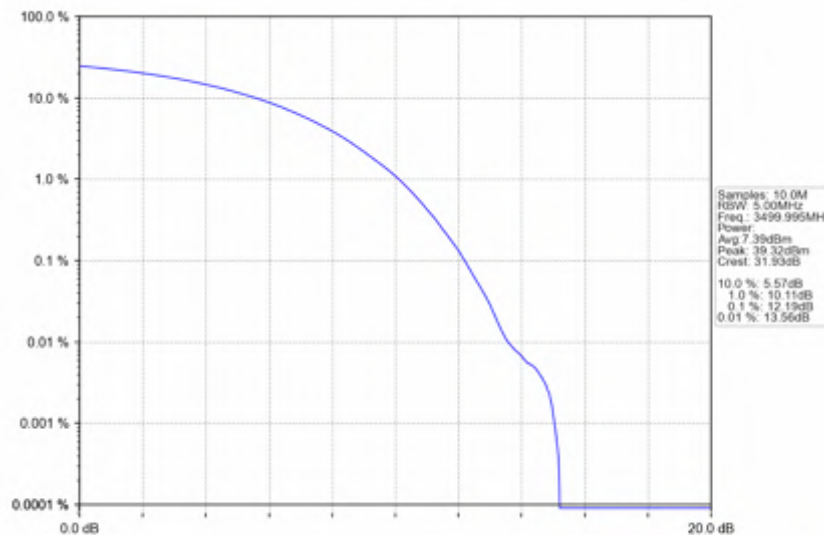
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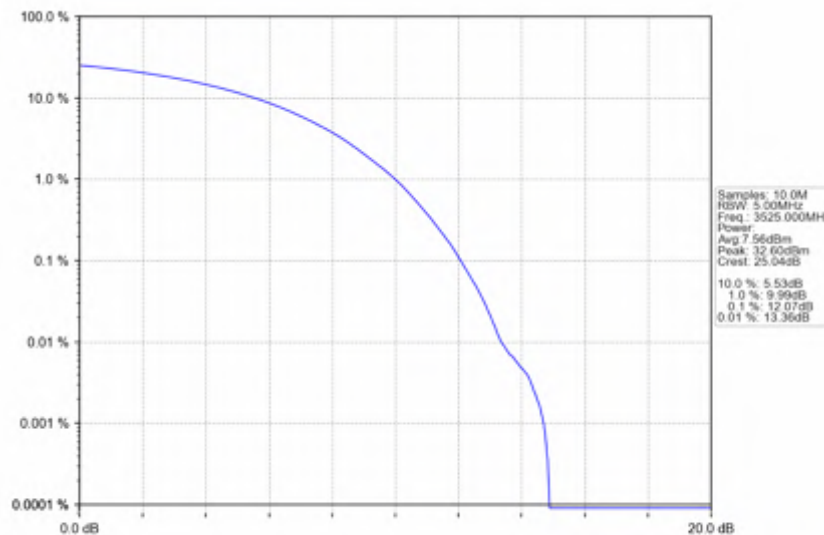
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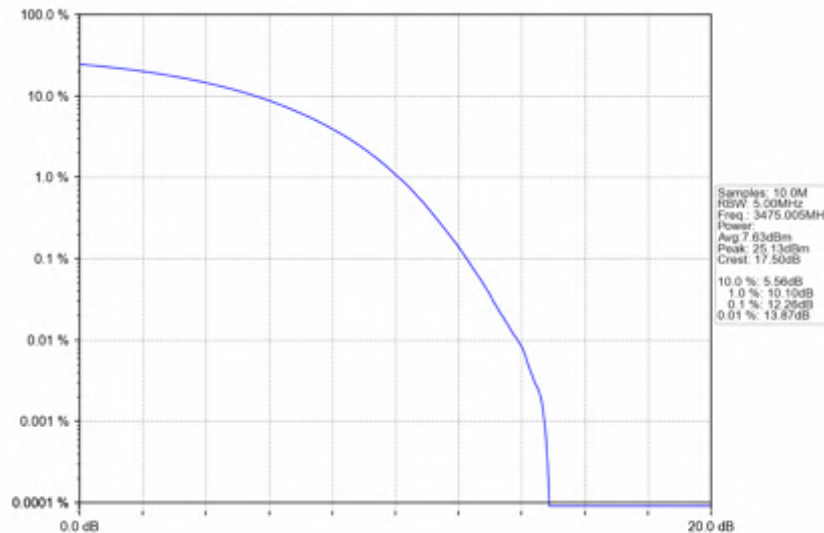
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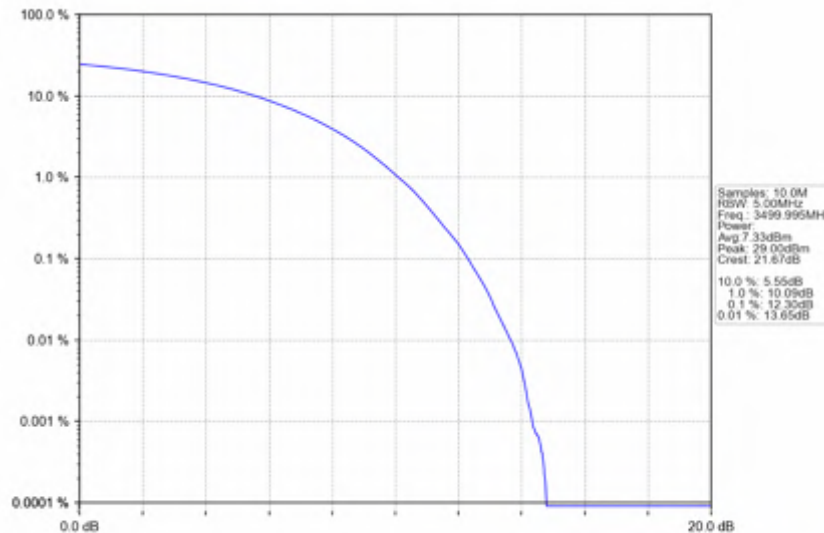
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n78e_15kHz_SISO_NTNV_50MHz_CP-OFDM_16_QAM_3475.005MHz_Outer_Full



n78e_15kHz_SISO_NTNV_50MHz_CP-OFDM_16_QAM_3499.995MHz_Outer_Full



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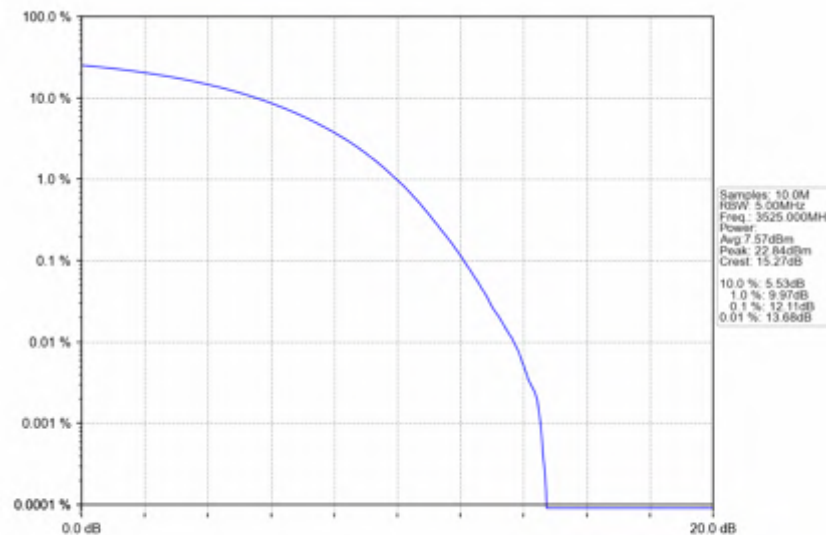
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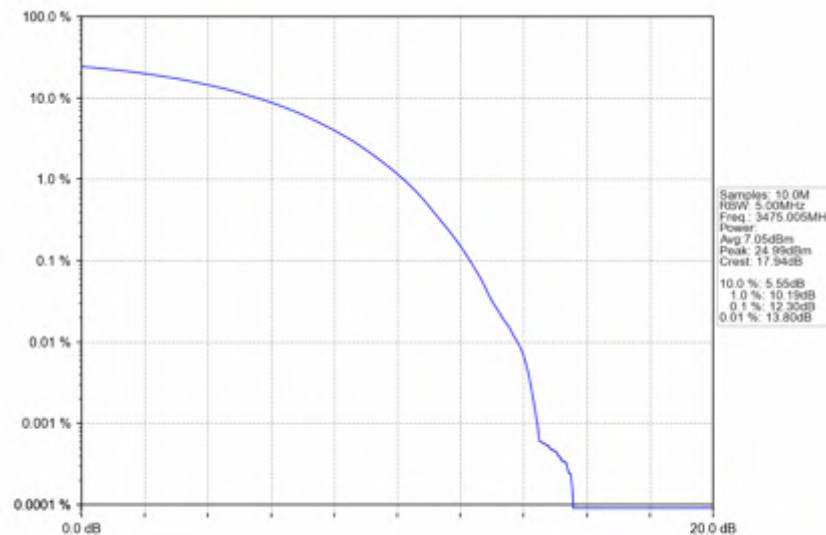
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n78e_15kHz_SISO_NTNV_50MHz_CP-OFDM 16 QAM_3525MHz_Outer_Full



n78e_15kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_3475.005MHz_Outer_Full

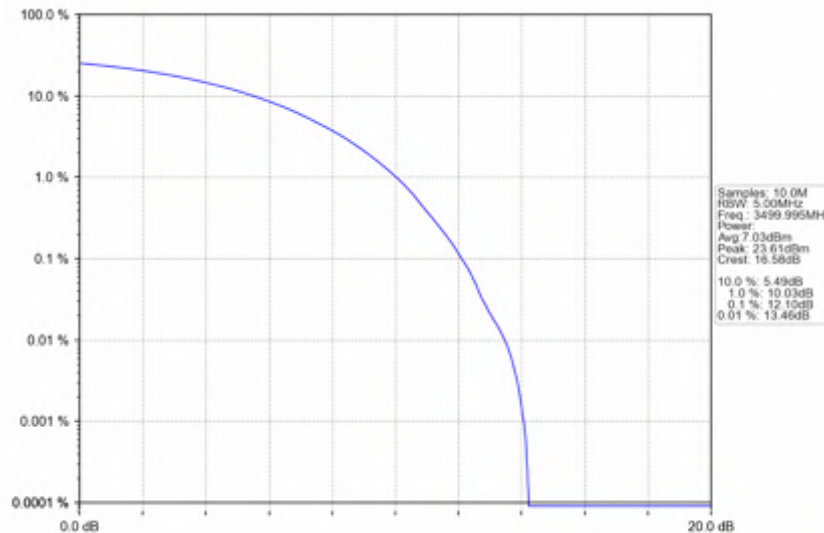


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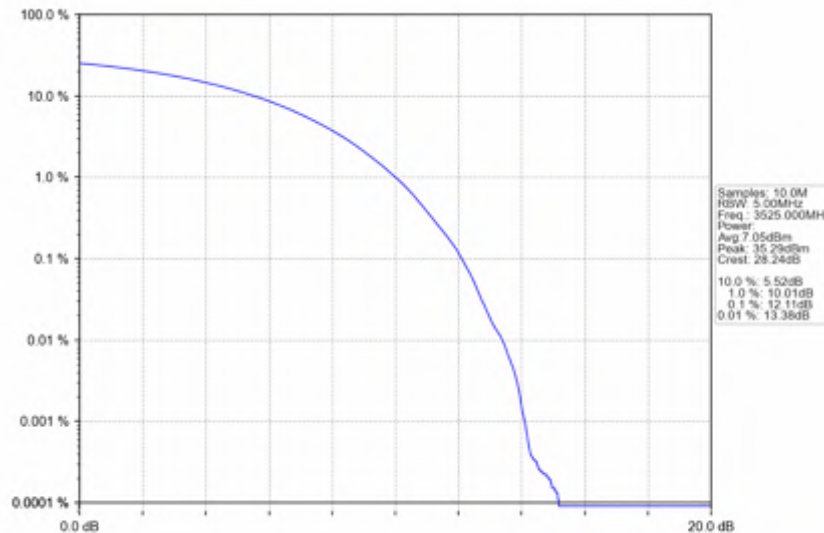
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n78e_15kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_3499.995MHz_Outer_Full



n78e_15kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_3525MHz_Outer_Full



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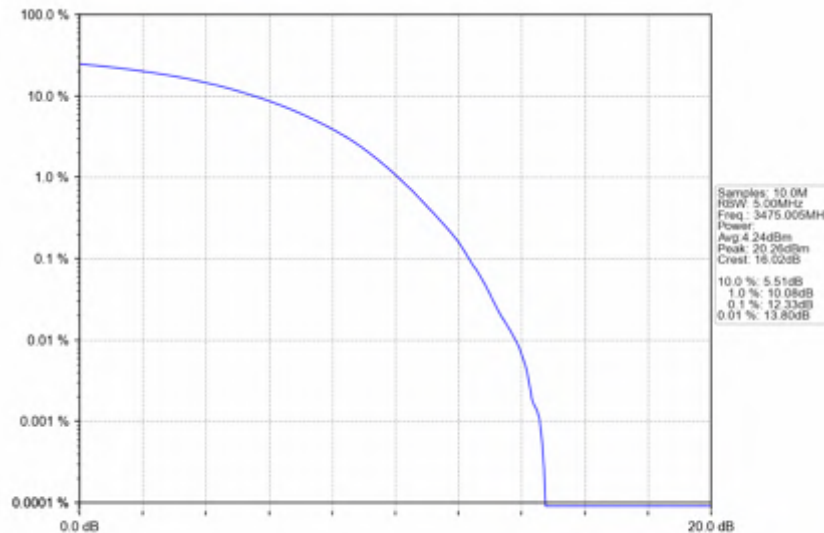
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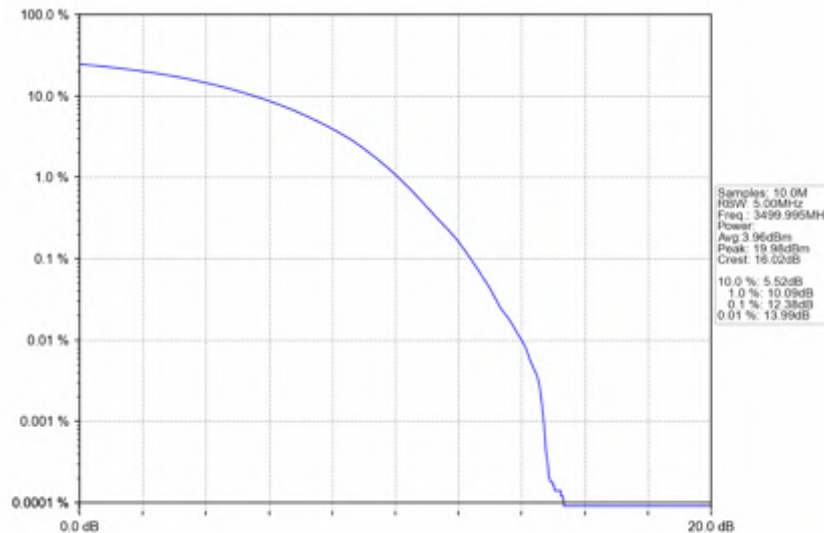
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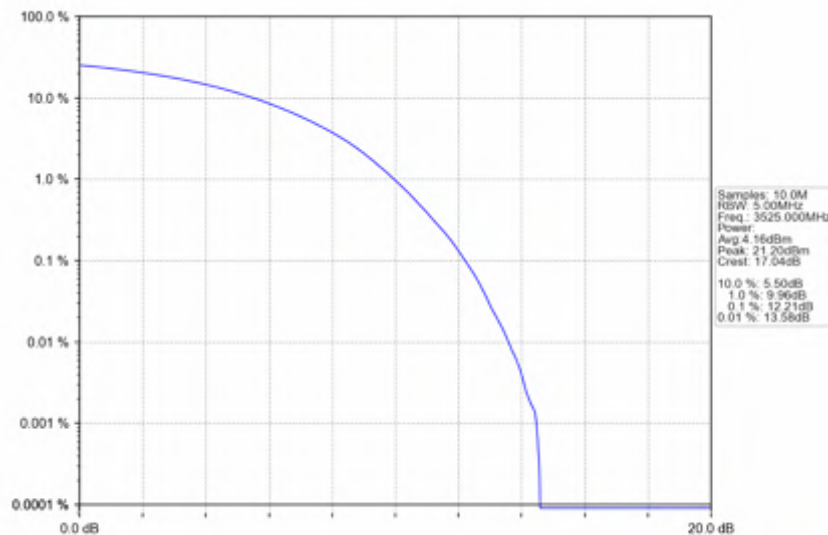


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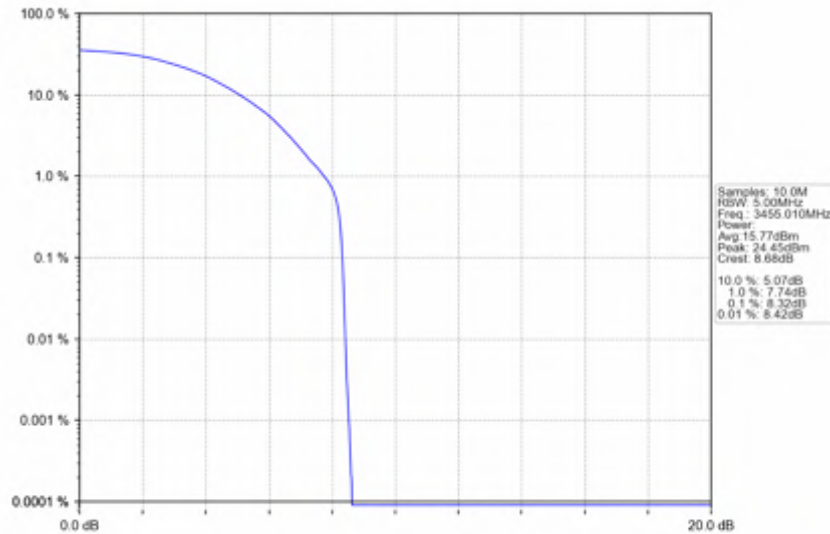
9.8 30k_SISO_10MHz_NTNV

9.8.1 Test Result

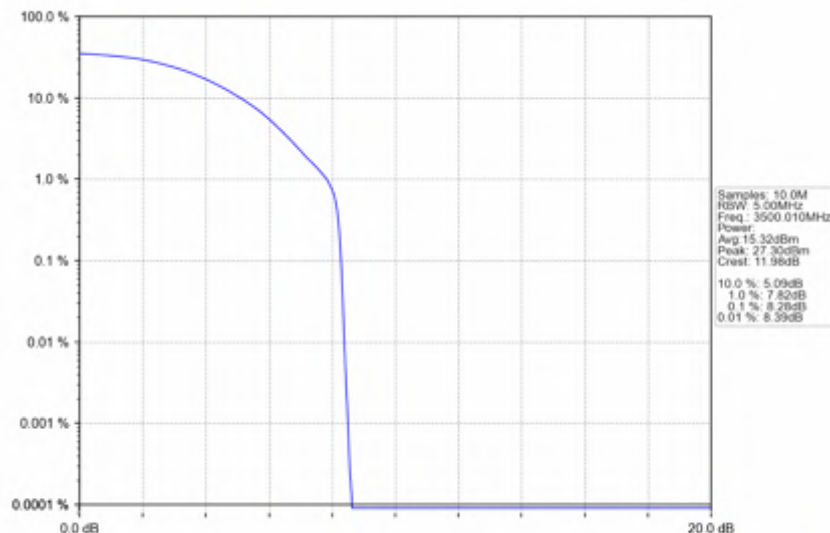
5G NR n78e SCS=30kHz SISO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3455.01	Outer_Full	8.32	/	/	<=13	Pass
	3500.01	Outer_Full	8.28	/	/	<=13	Pass
	3544.98	Outer_Full	8.33	/	/	<=13	Pass
DFT-s-OFDM QPSK	3455.01	Outer_Full	8.87	/	/	<=13	Pass
	3500.01	Outer_Full	9.14	/	/	<=13	Pass
	3544.98	Outer_Full	9.21	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3455.01	Outer_Full	9.26	/	/	<=13	Pass
	3500.01	Outer_Full	9.42	/	/	<=13	Pass
	3544.98	Outer_Full	9.46	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3455.01	Outer_Full	9.29	/	/	<=13	Pass
	3500.01	Outer_Full	9.36	/	/	<=13	Pass
	3544.98	Outer_Full	9.75	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3455.01	Outer_Full	10.23	/	/	<=13	Pass
	3500.01	Outer_Full	10.26	/	/	<=13	Pass
	3544.98	Outer_Full	10.26	/	/	<=13	Pass
CP-OFDM QPSK	3455.01	Outer_Full	11.26	/	/	<=13	Pass
	3500.01	Outer_Full	11.64	/	/	<=13	Pass
	3544.98	Outer_Full	12.09	/	/	<=13	Pass
CP-OFDM 16 QAM	3455.01	Outer_Full	11.30	/	/	<=13	Pass
	3500.01	Outer_Full	11.61	/	/	<=13	Pass
	3544.98	Outer_Full	11.53	/	/	<=13	Pass
CP-OFDM 64 QAM	3455.01	Outer_Full	11.37	/	/	<=13	Pass
	3500.01	Outer_Full	11.42	/	/	<=13	Pass
	3544.98	Outer_Full	11.40	/	/	<=13	Pass
CP-OFDM 256 QAM	3455.01	Outer_Full	10.92	/	/	<=13	Pass
	3500.01	Outer_Full	11.85	/	/	<=13	Pass
	3544.98	Outer_Full	11.68	/	/	<=13	Pass

9.8.2 Test Graph

n78e_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3455.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3500.01MHz_Outer_Full



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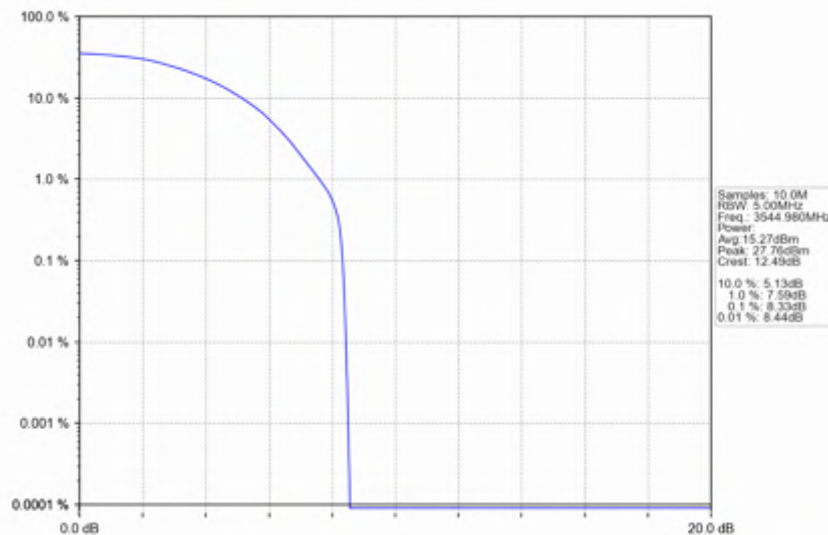
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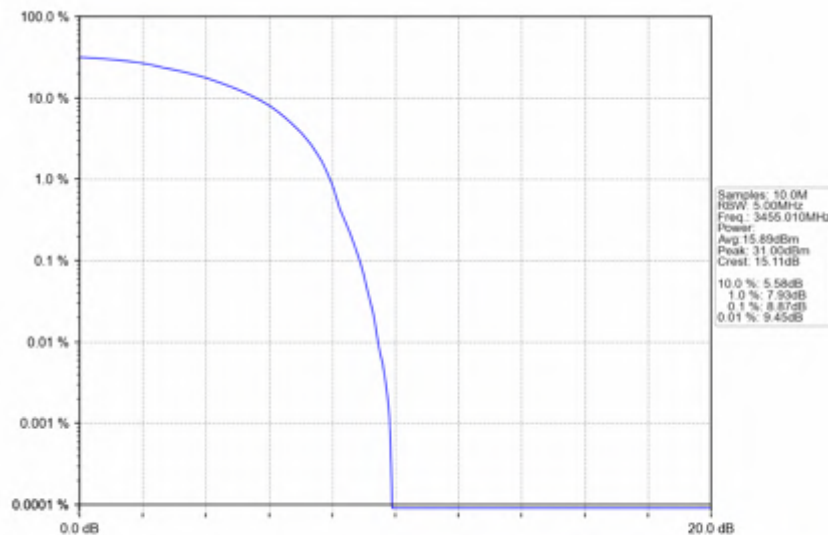
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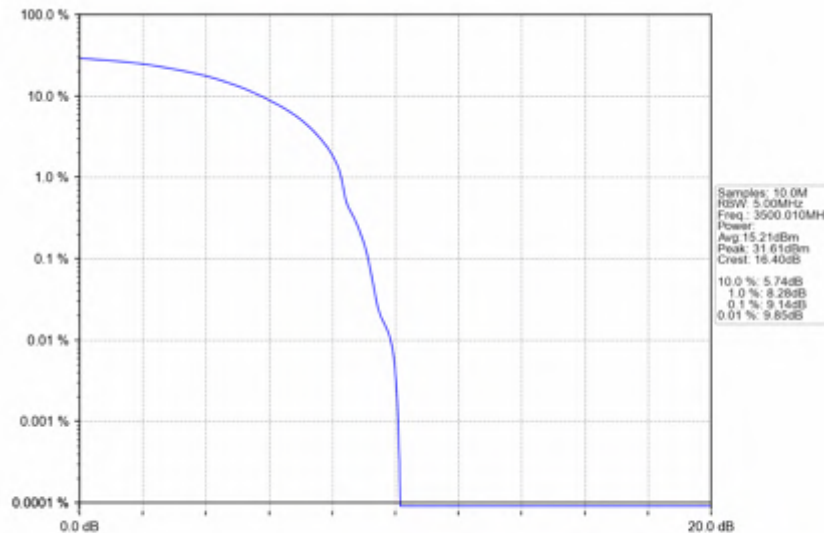


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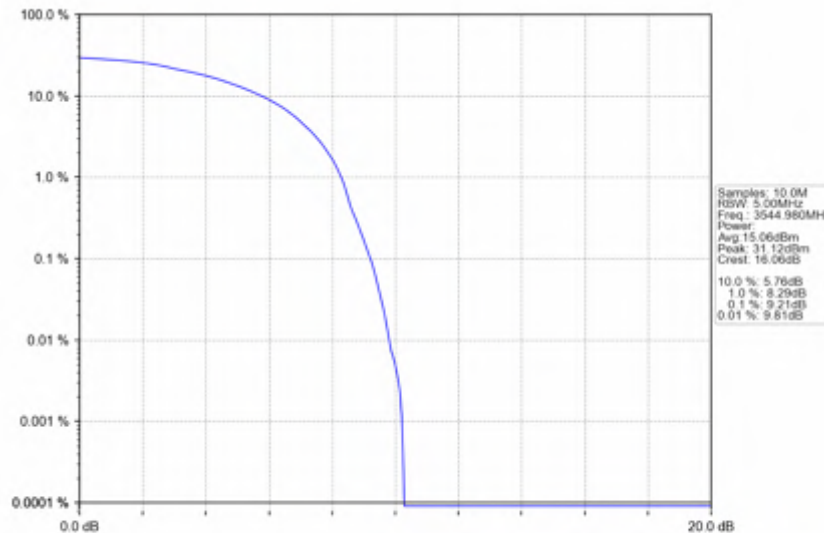
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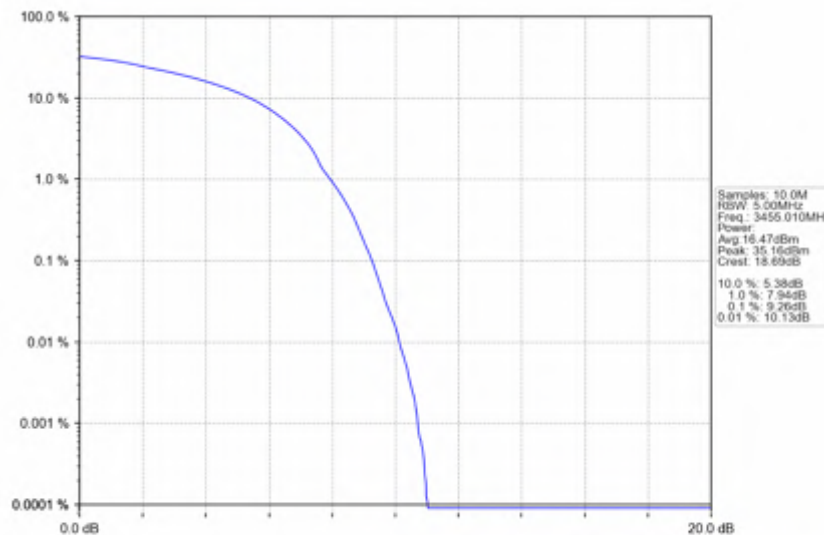


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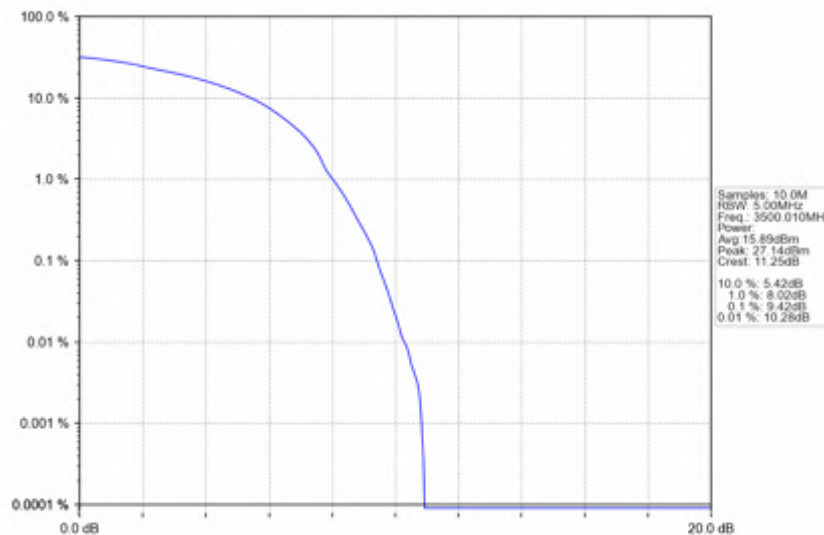
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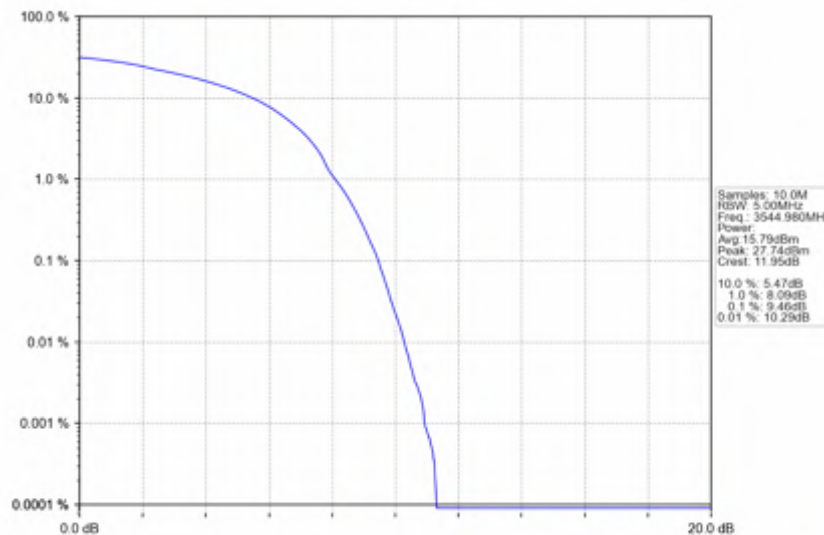


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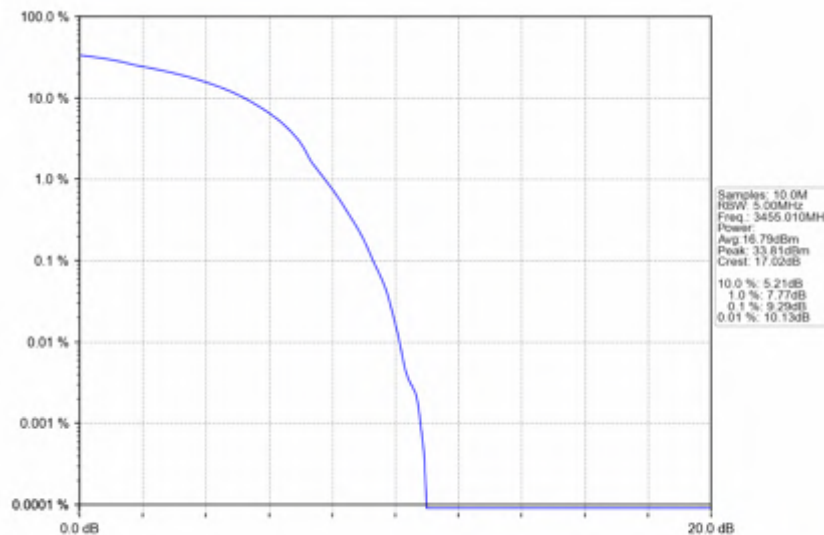
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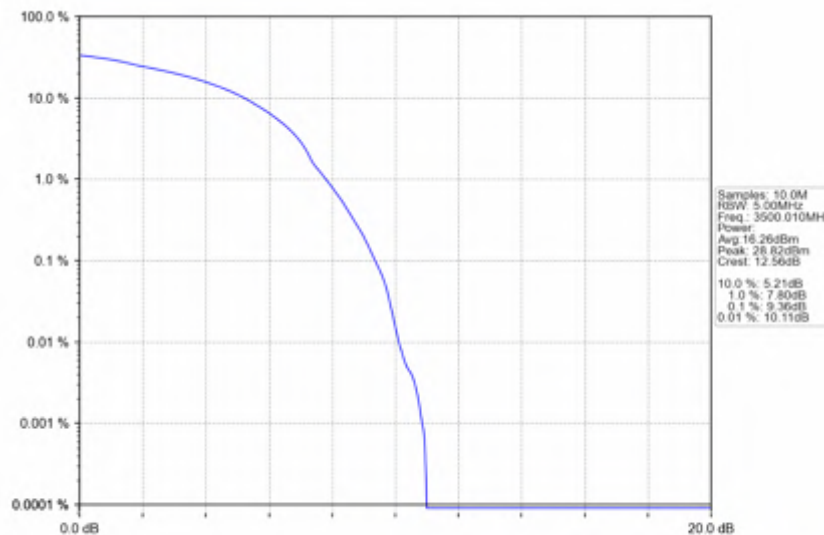
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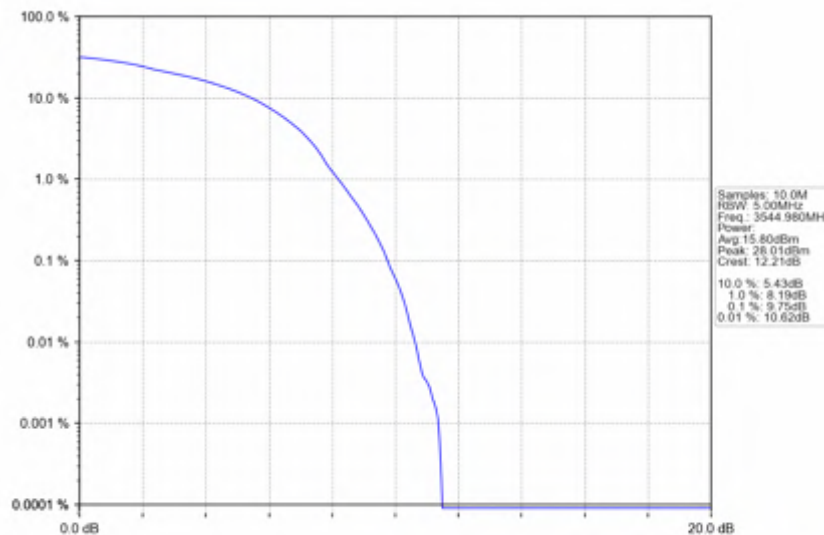
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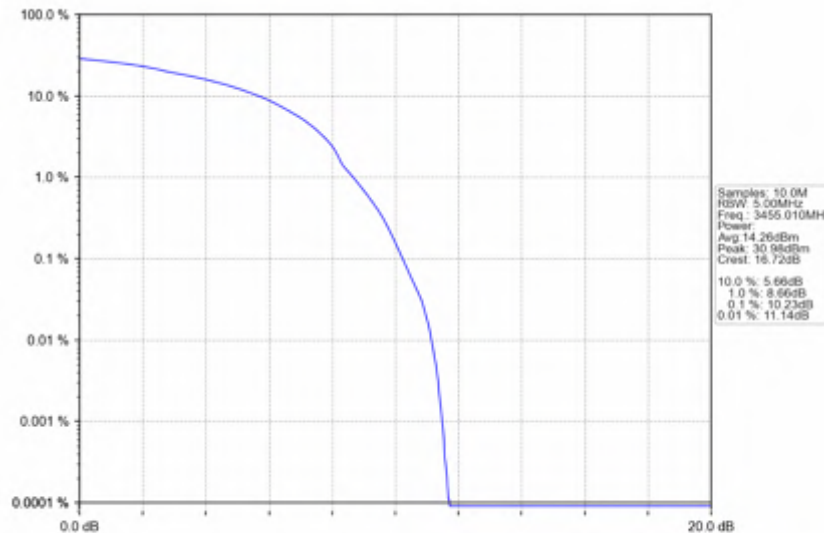


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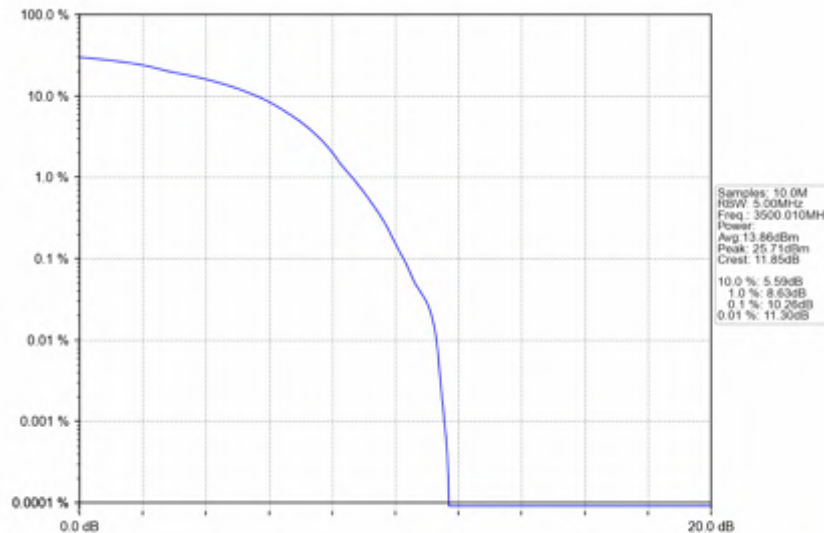
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n78e_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_3455.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_3500.01MHz_Outer_Full

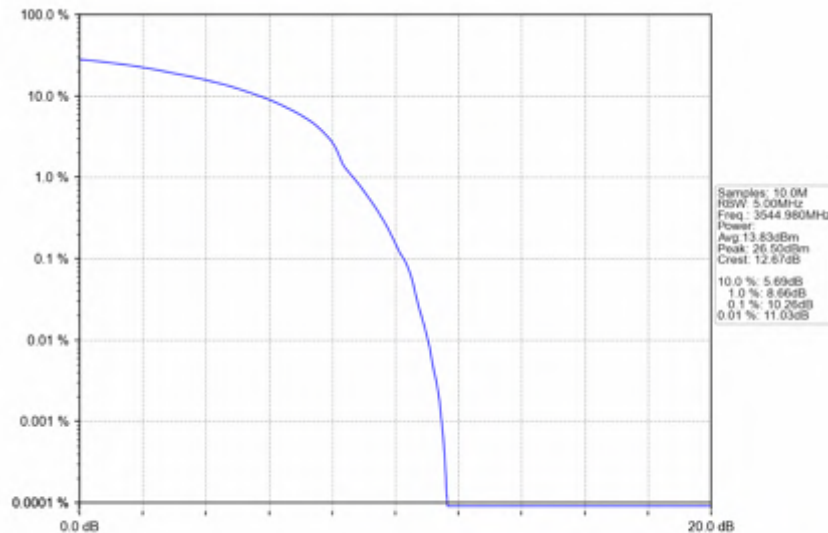


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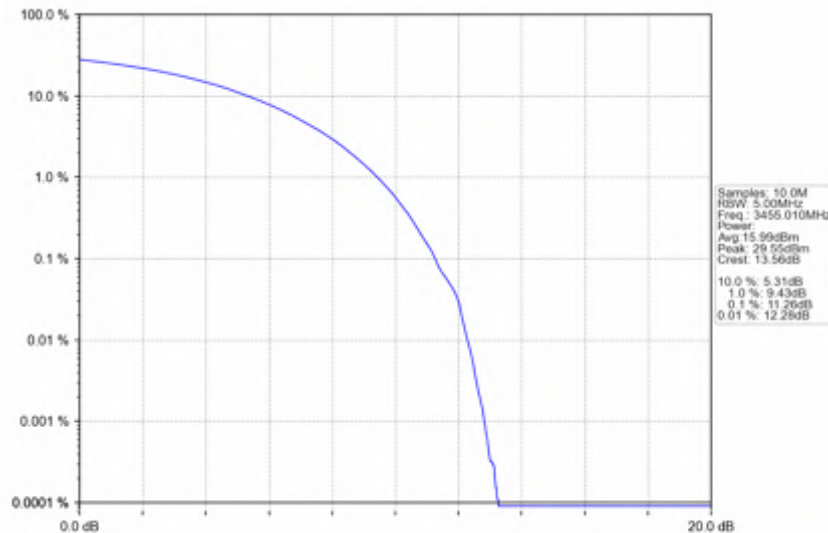
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n78e_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_3544.98MHz_Outer_Full



n78e_30kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_3455.01MHz_Outer_Full



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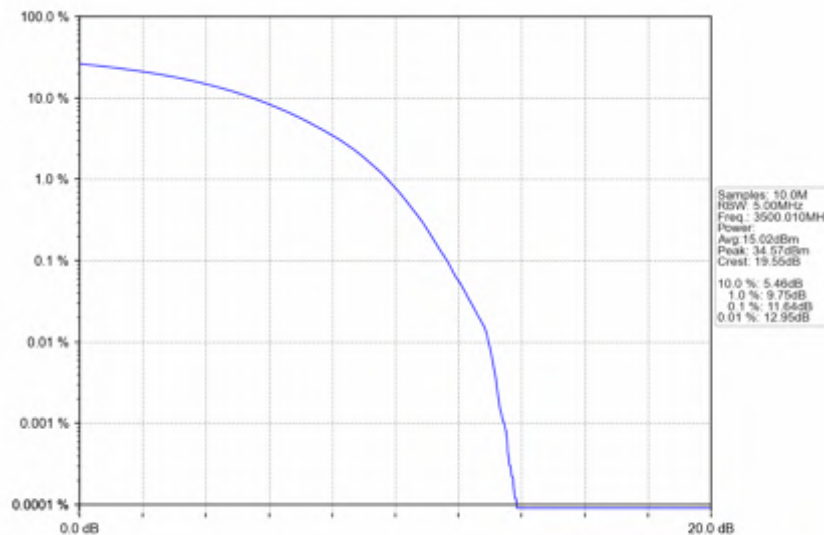
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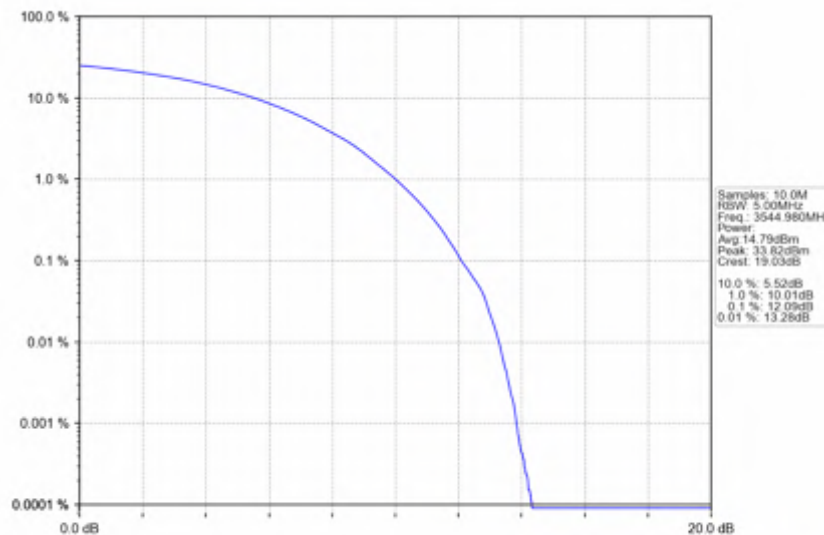
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n78e_30kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_3544.98MHz_Outer_Full

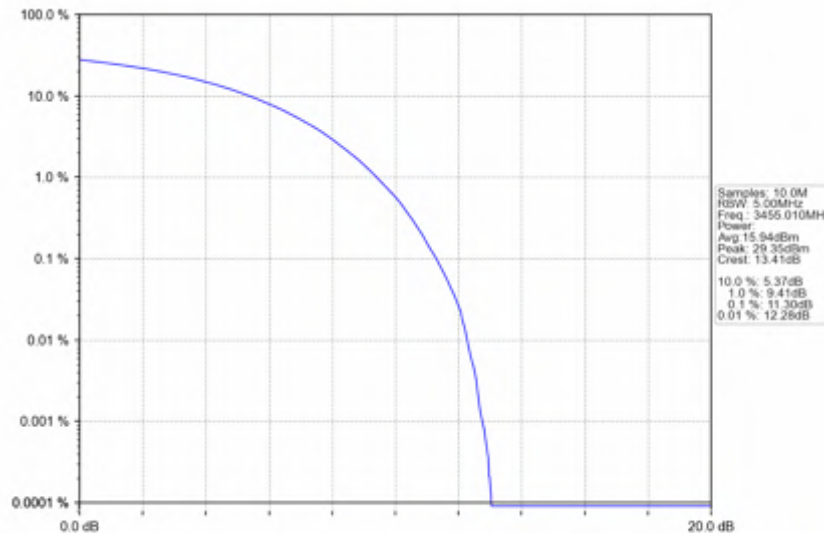


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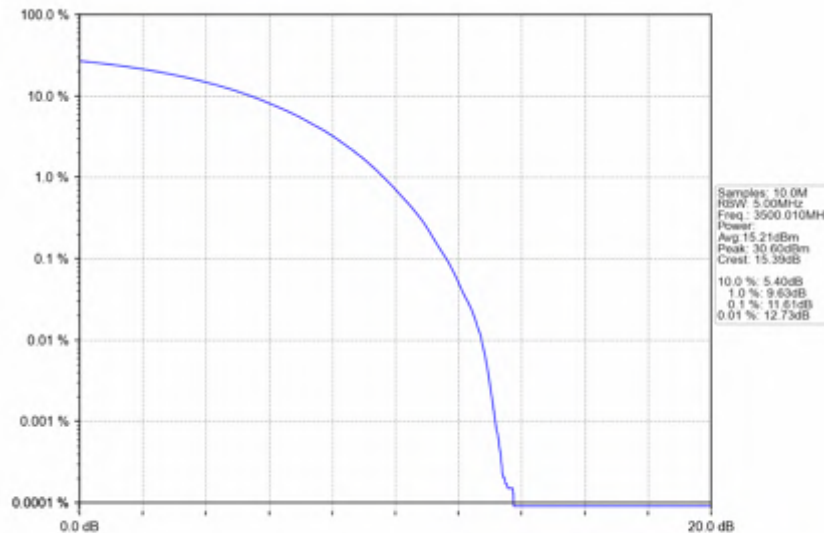
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n78e_30kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_3455.01MHz_Outer_Full



n78e_30kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_3500.01MHz_Outer_Full

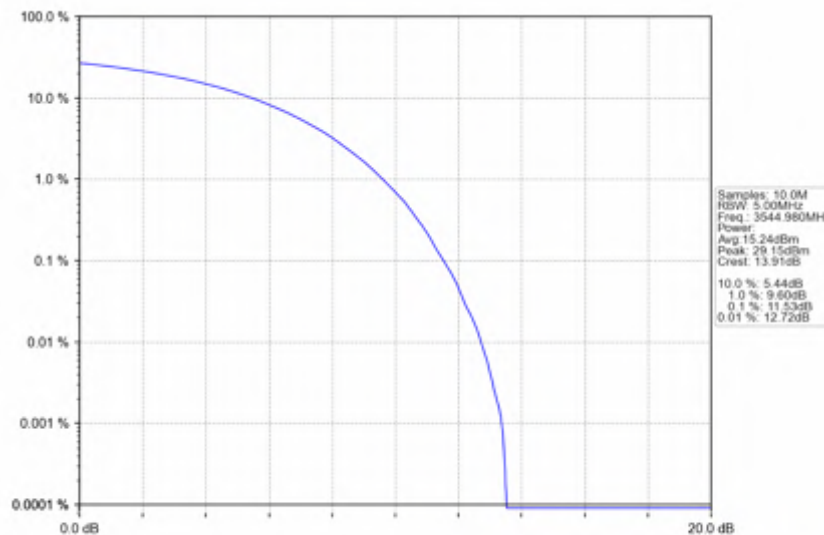


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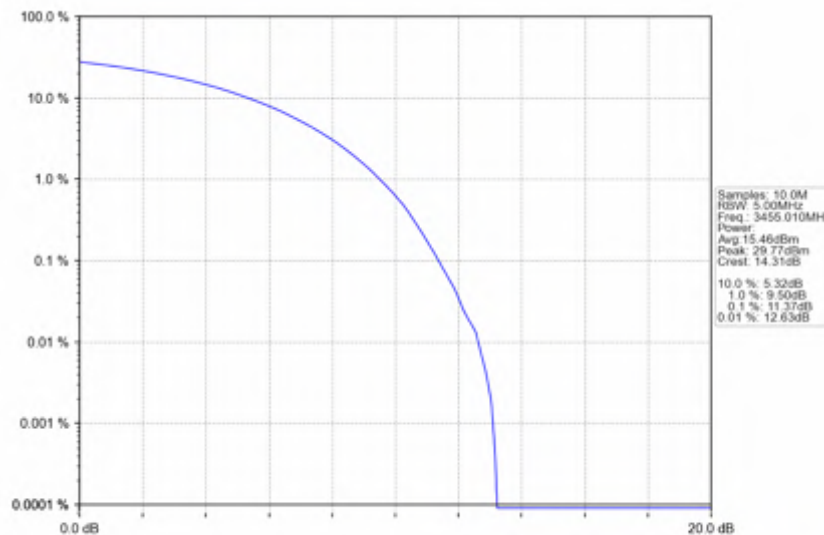
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n78e_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_3455.01MHz_Outer_Full

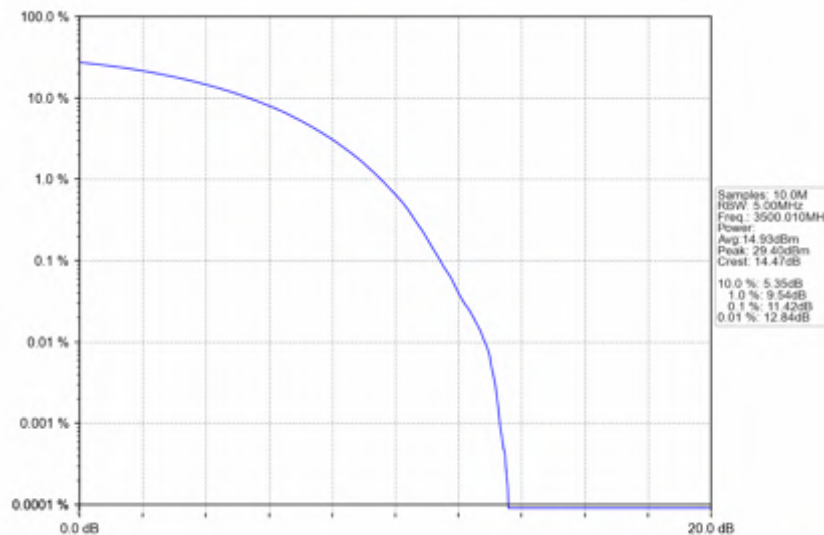


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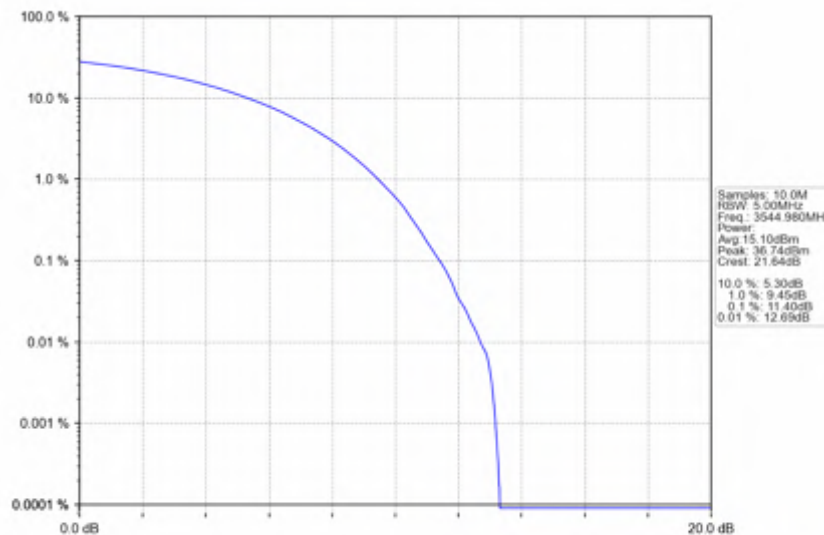
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