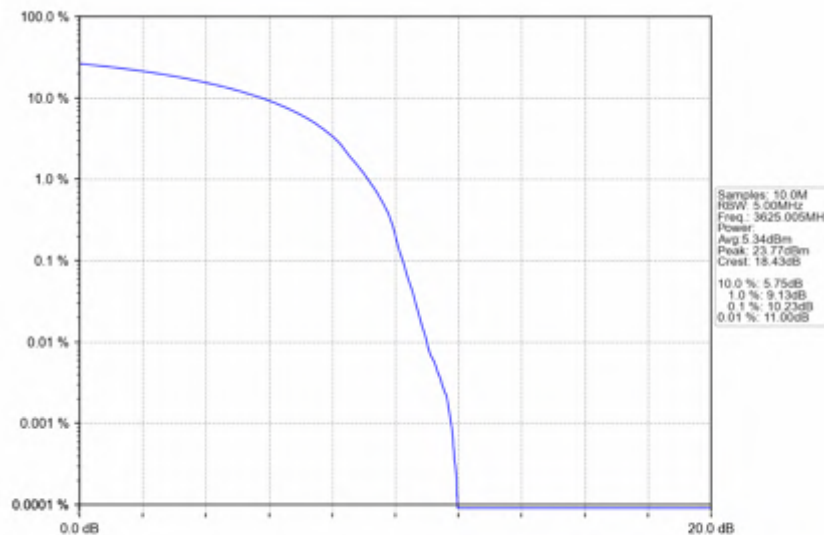
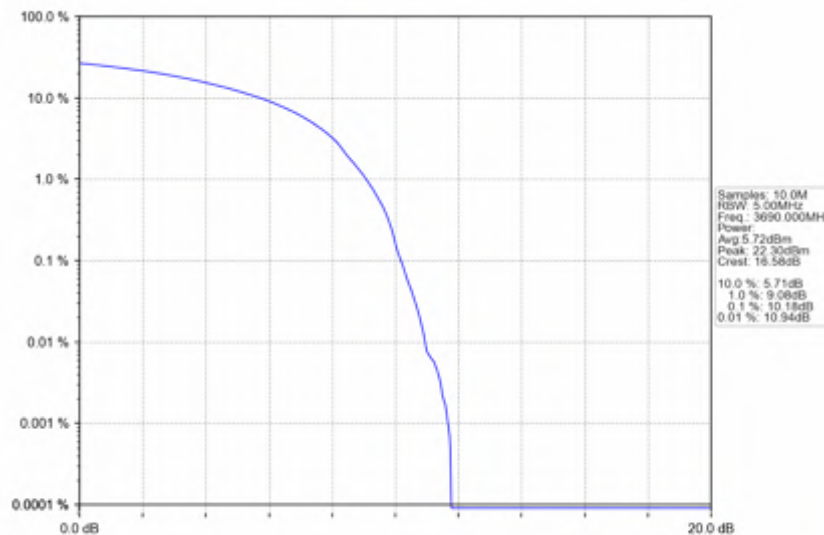


n78d_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3625.005MHz_Outer_Full



n78d_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3690MHz_Outer_Full



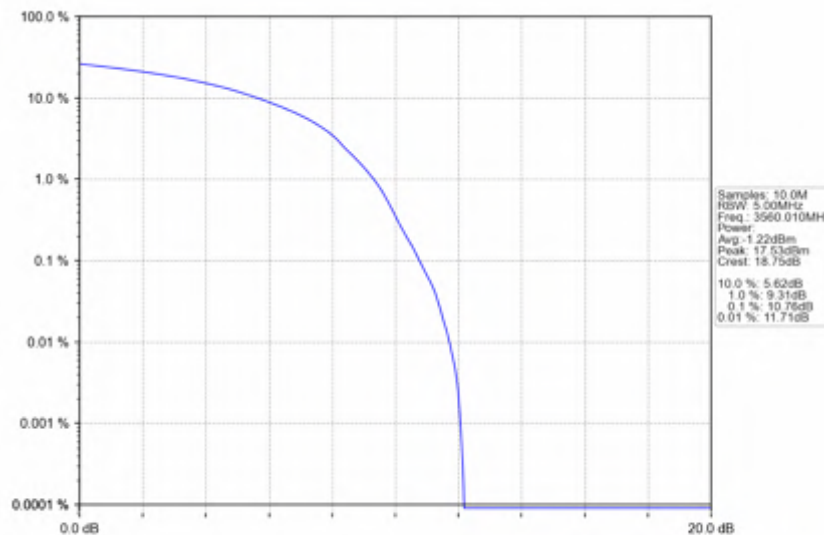
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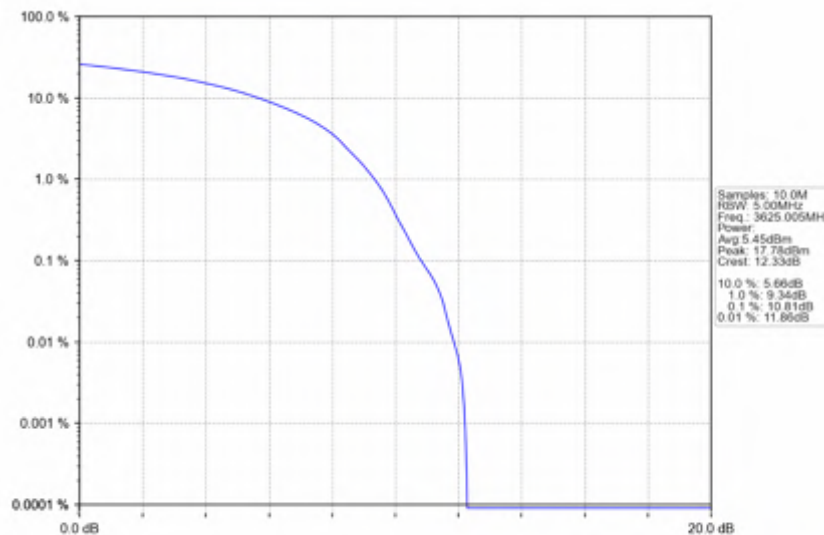
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n78d_15kHz_SISO_NTV_20MHz_DFT-s-OFDM_16_QAM_3560.01MHz_Outer_Full



n78d_15kHz_SISO_NTV_20MHz_DFT-s-OFDM_16_QAM_3625.005MHz_Outer_Full



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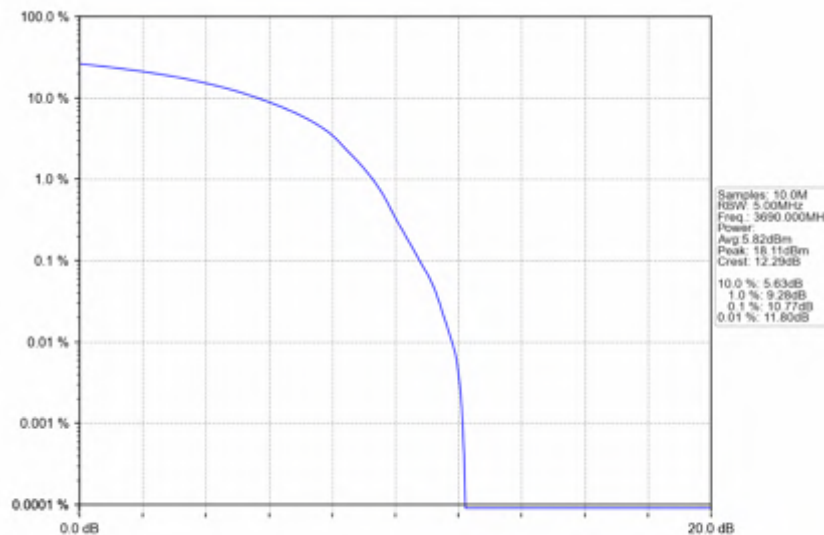
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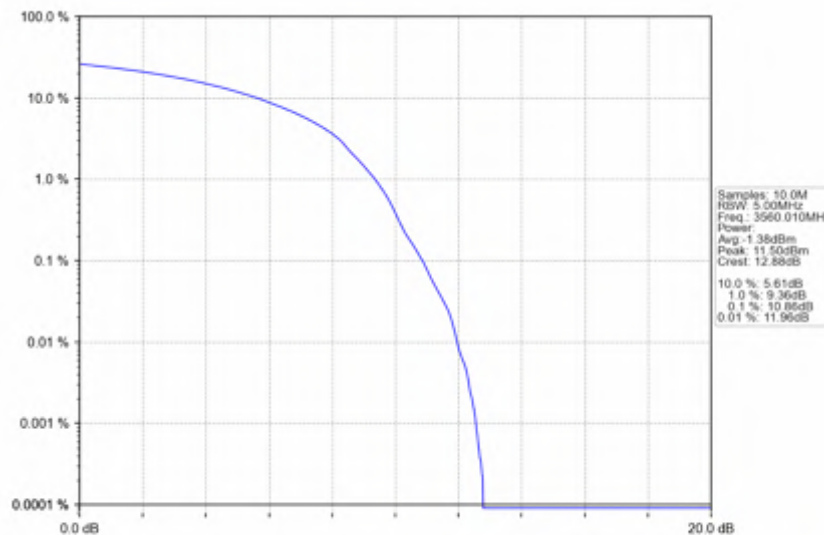
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n78d_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_3690MHz_Outer_Full



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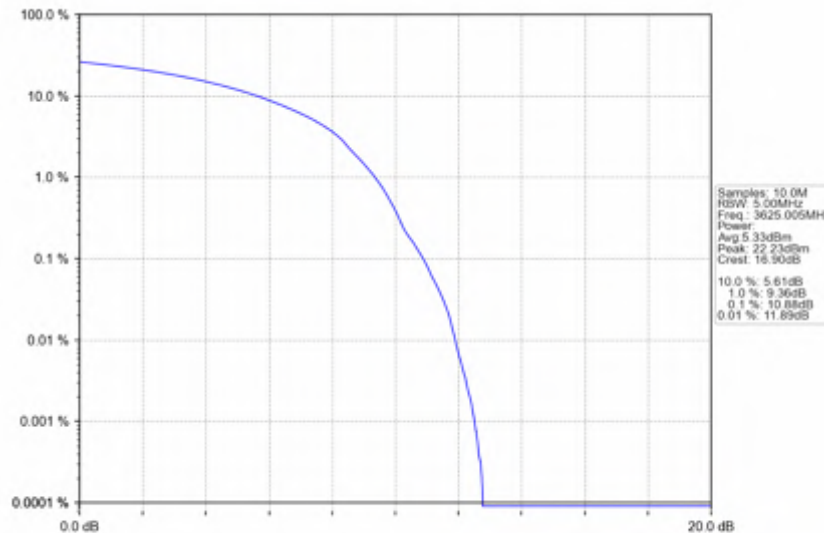


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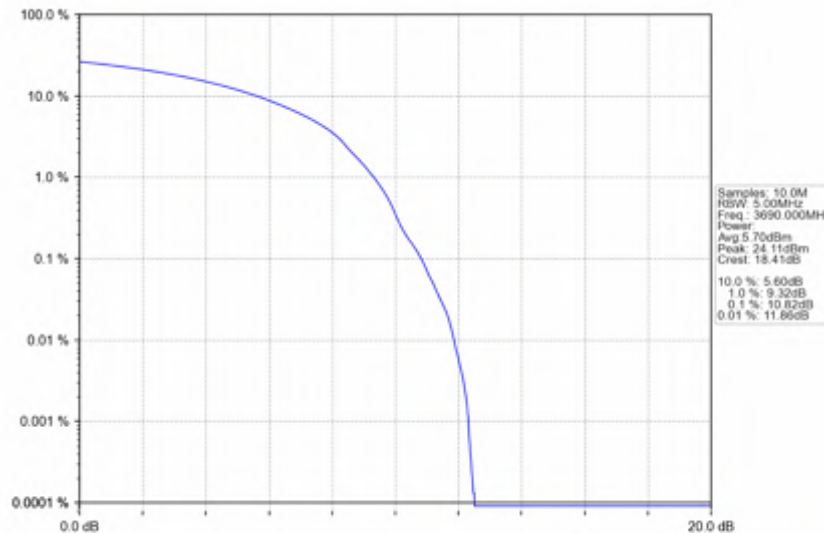
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n78d_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_3625.005MHz_Outer_Full



n78d_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_3690MHz_Outer_Full



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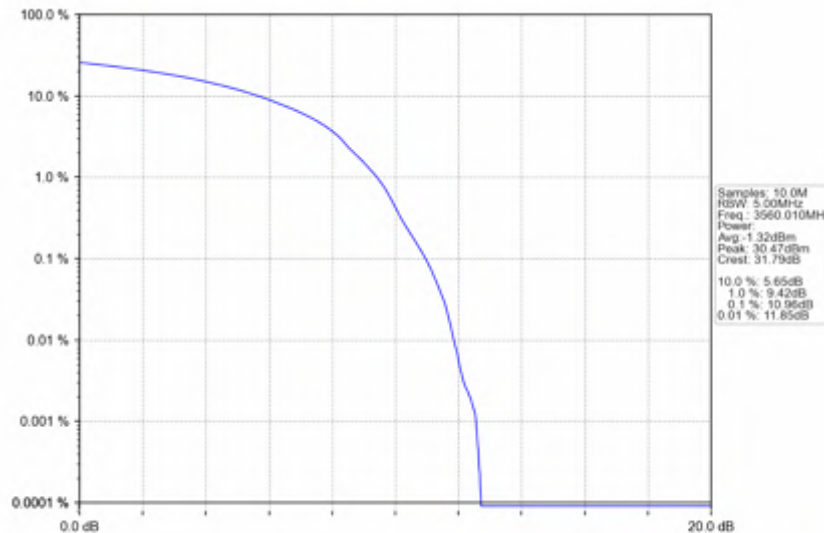
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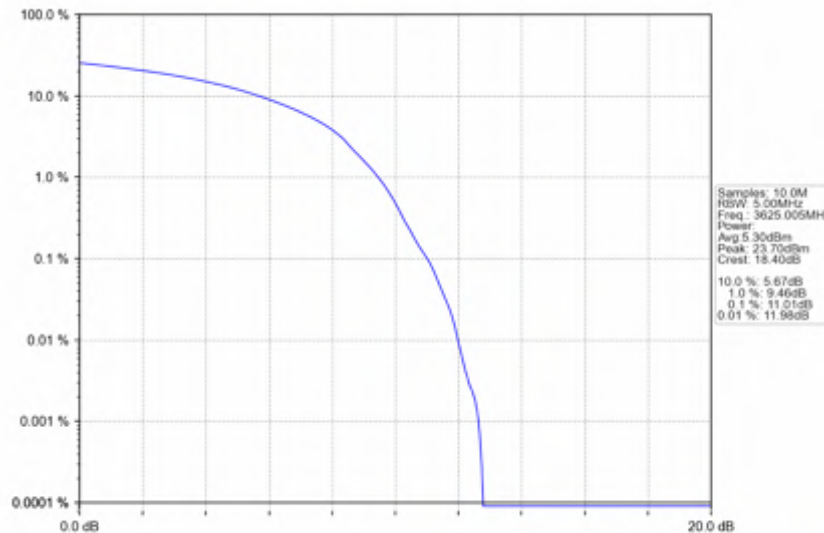
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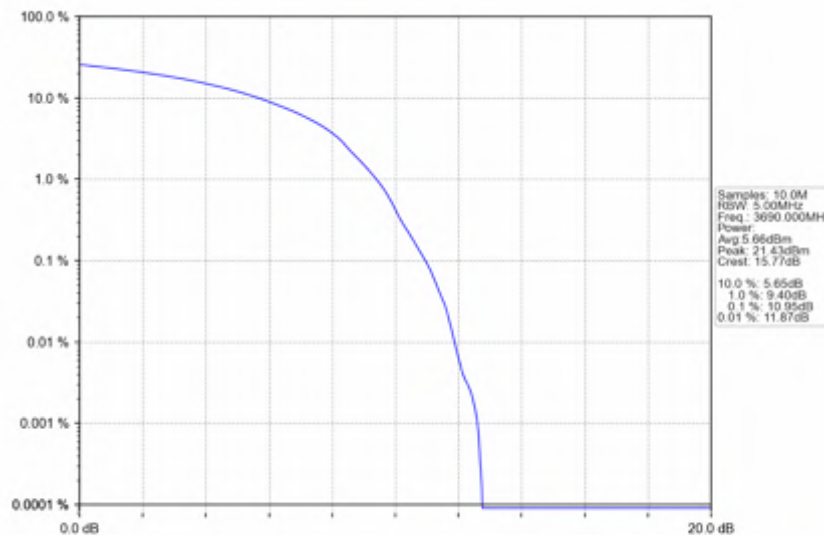
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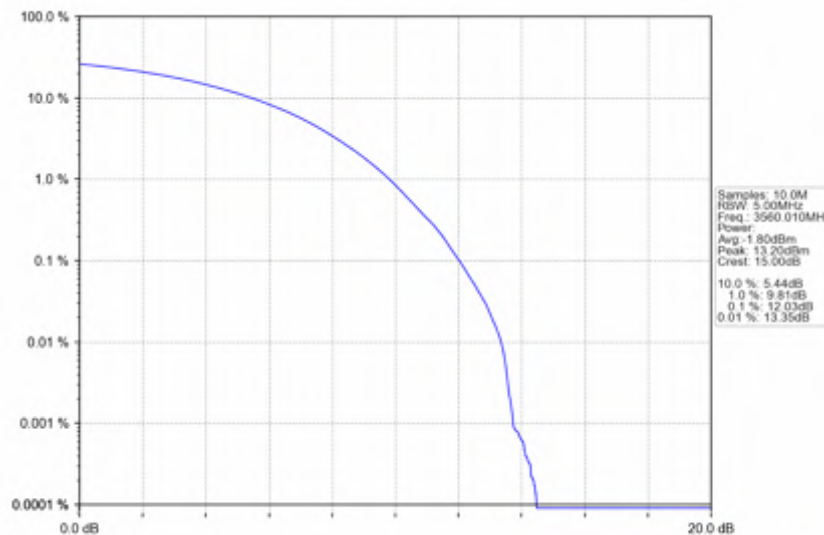
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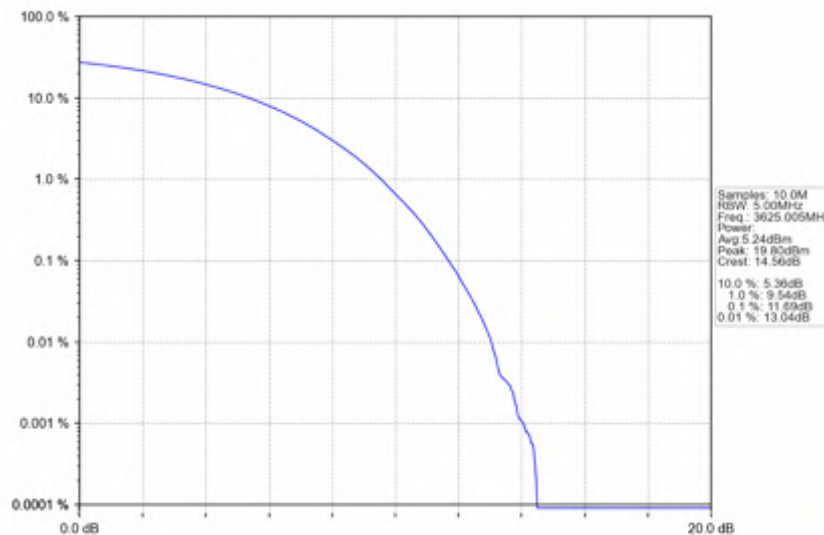
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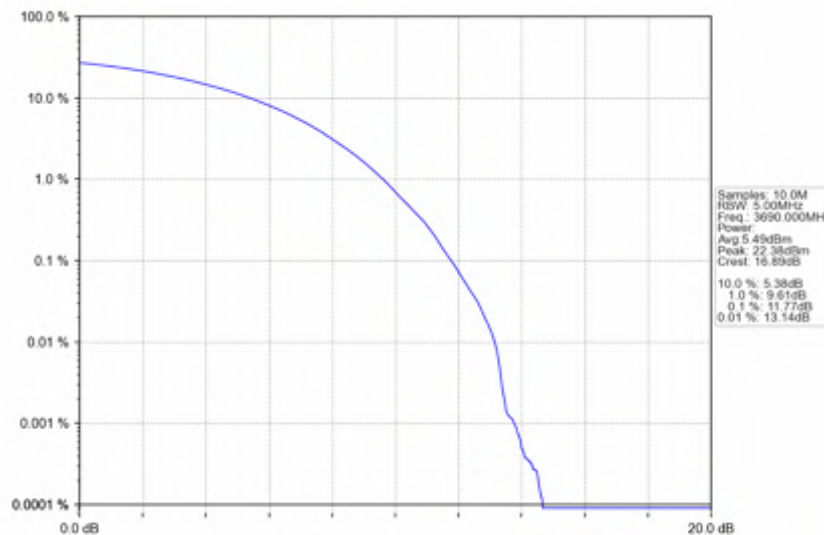
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n78d_15kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3625.005MHz_Outer_Full



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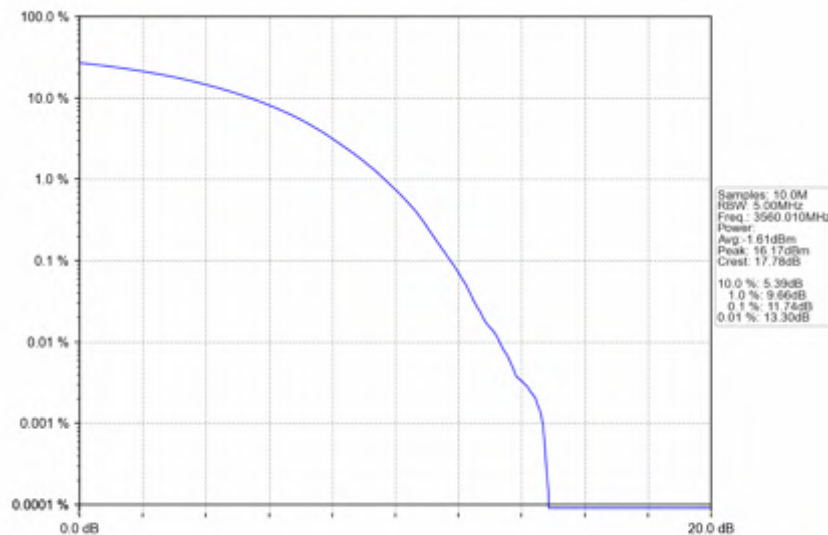
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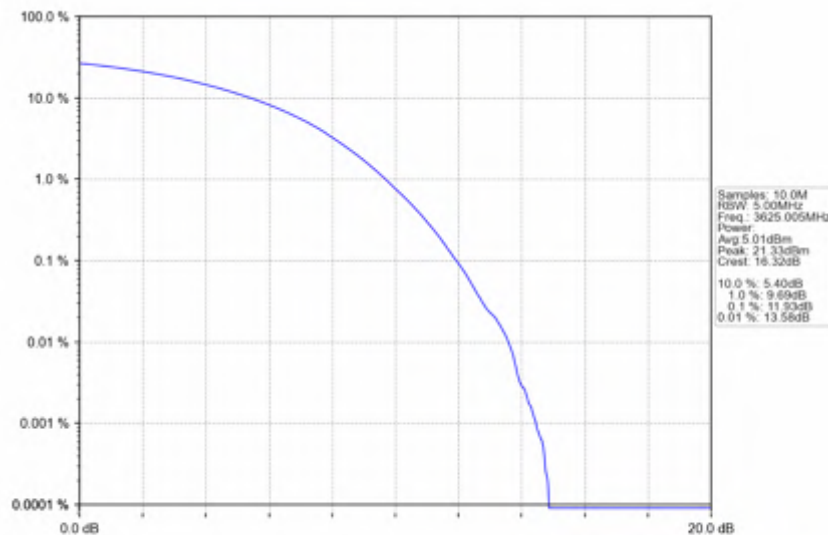
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n78d_15kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_3560.01MHz_Outer_Full



n78d_15kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_3625.005MHz_Outer_Full

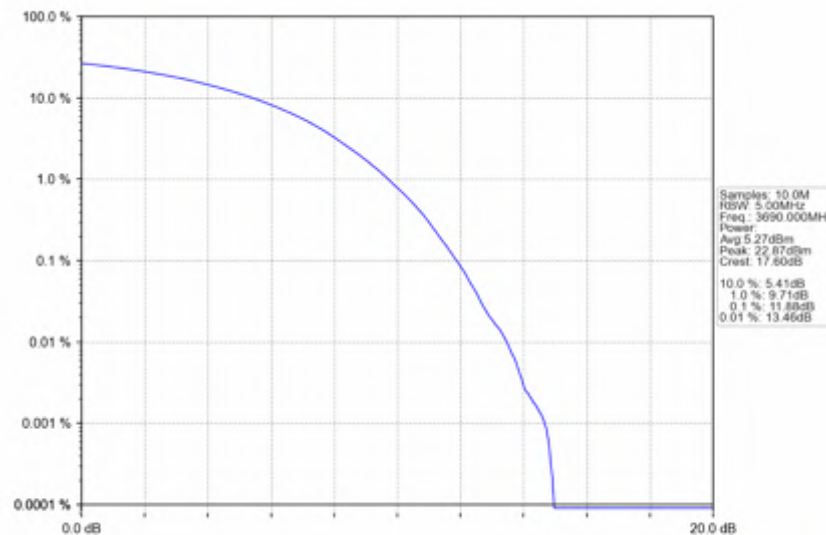


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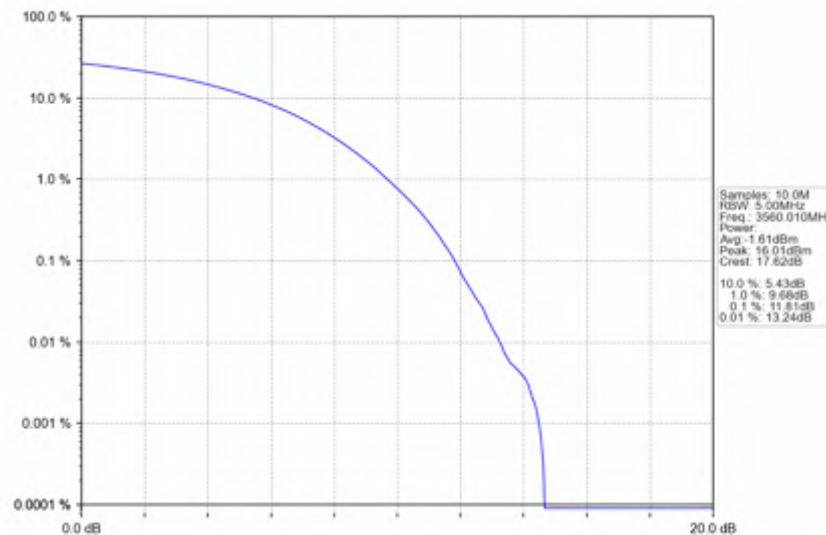
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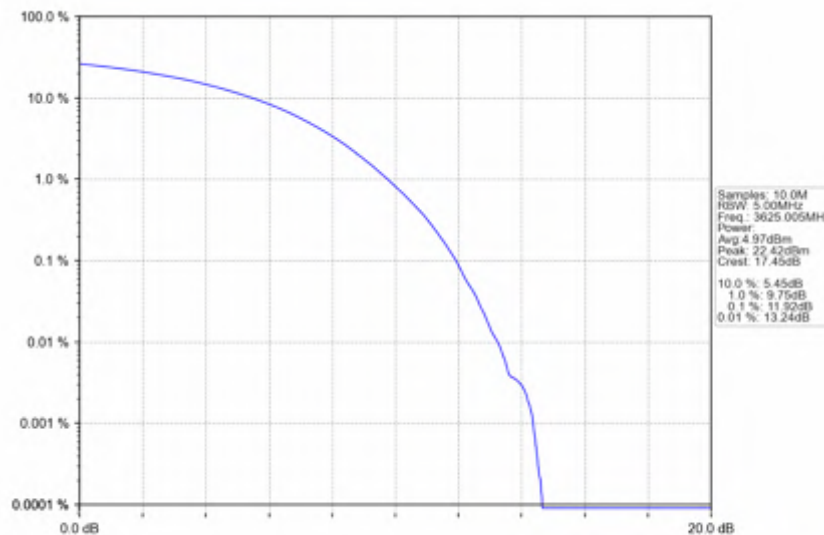


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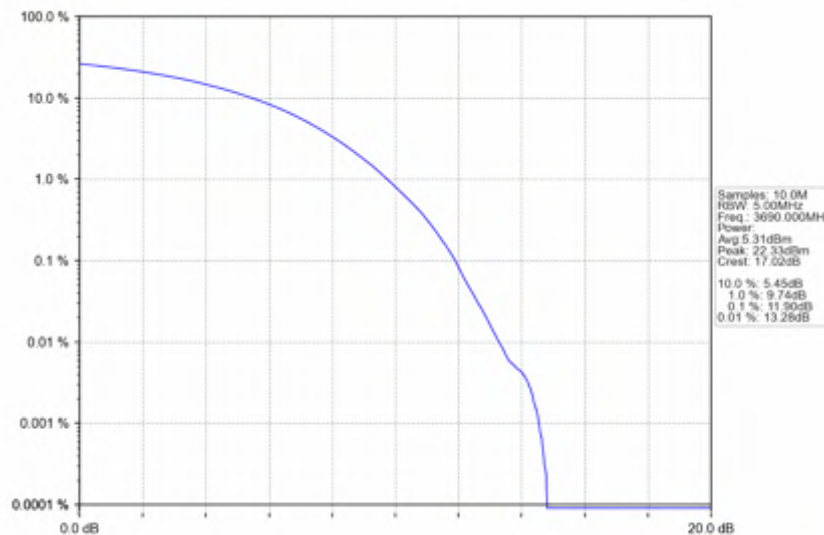
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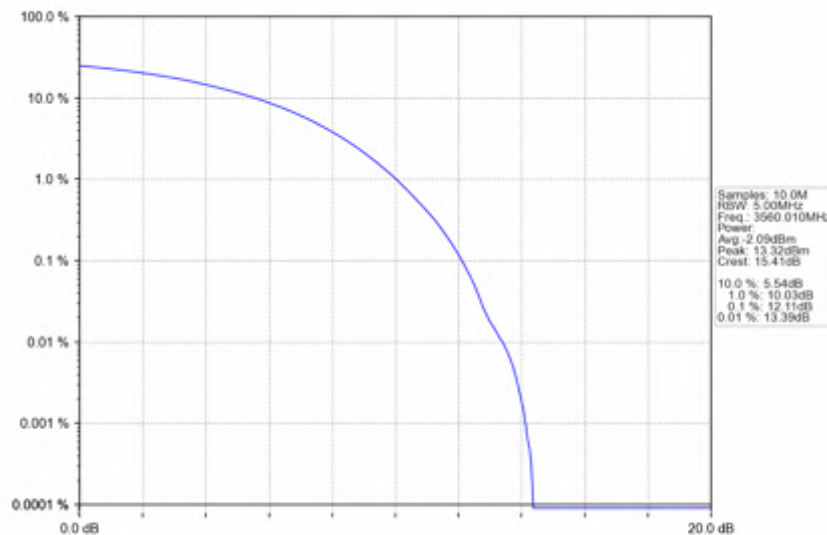
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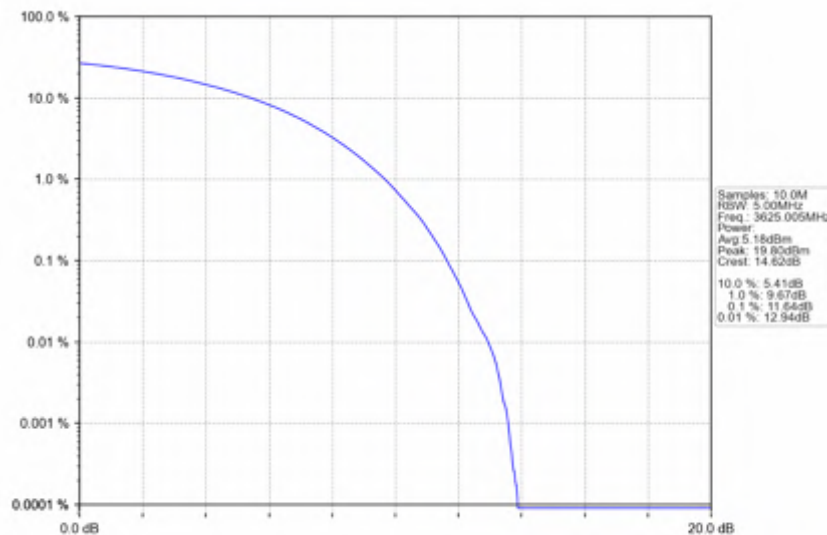
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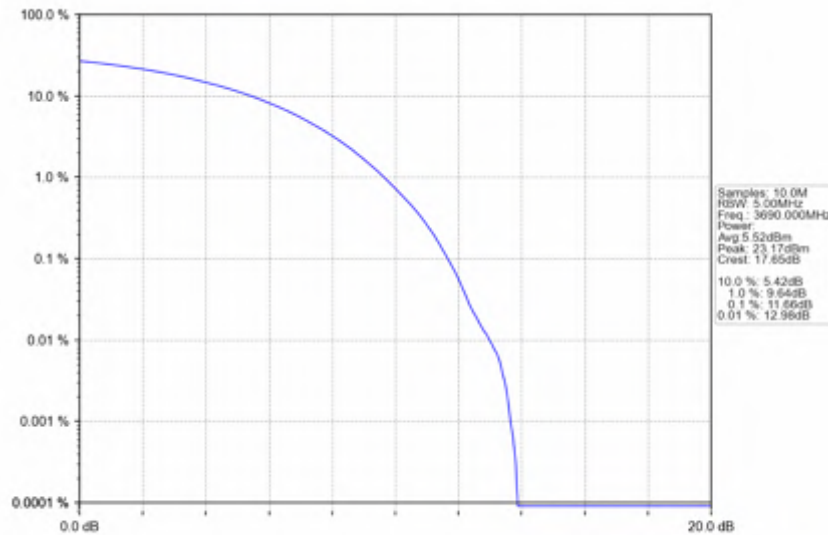


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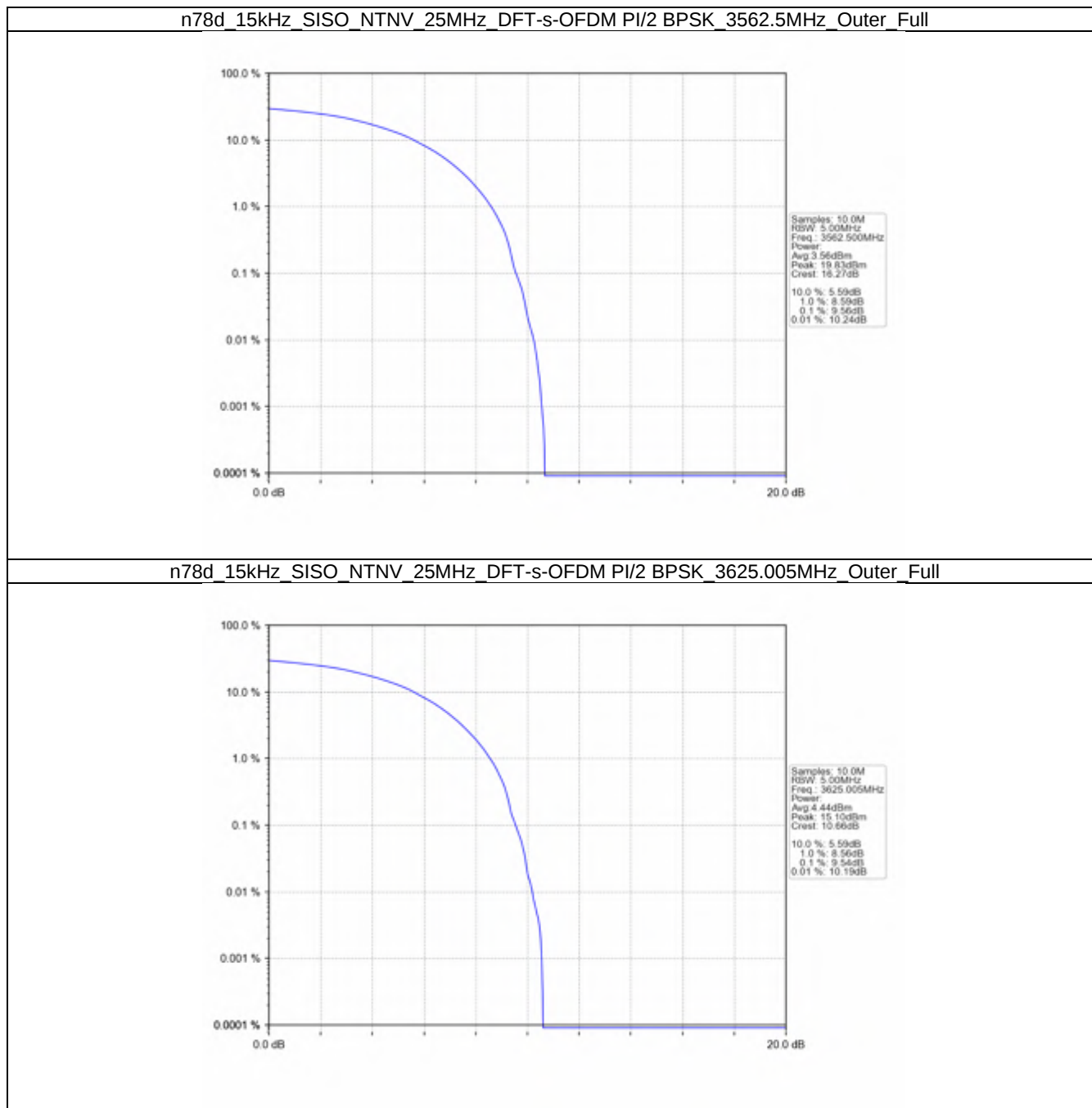
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8.4 15k_SISO_25MHz_NTNV

8.4.1 Test Result

5G NR n78d 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	3562.5	Outer_Full	9.56	/	/	<=13	Pass
	3625.005	Outer_Full	9.54	/	/	<=13	Pass
	3687.495	Outer_Full	9.56	/	/	<=13	Pass
DFT-s-OFDM QPSK	3562.5	Outer_Full	10.67	/	/	<=13	Pass
	3625.005	Outer_Full	10.64	/	/	<=13	Pass
	3687.495	Outer_Full	10.66	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3562.5	Outer_Full	11.09	/	/	<=13	Pass
	3625.005	Outer_Full	10.95	/	/	<=13	Pass
	3687.495	Outer_Full	11.06	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3562.5	Outer_Full	11.16	/	/	<=13	Pass
	3625.005	Outer_Full	10.99	/	/	<=13	Pass
	3687.495	Outer_Full	11.10	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3562.5	Outer_Full	10.93	/	/	<=13	Pass
	3625.005	Outer_Full	11.02	/	/	<=13	Pass
	3687.495	Outer_Full	11.03	/	/	<=13	Pass
CP-OFDM QPSK	3562.5	Outer_Full	11.76	/	/	<=13	Pass
	3625.005	Outer_Full	11.51	/	/	<=13	Pass
	3687.495	Outer_Full	11.74	/	/	<=13	Pass
CP-OFDM 16 QAM	3562.5	Outer_Full	11.92	/	/	<=13	Pass
	3625.005	Outer_Full	11.91	/	/	<=13	Pass
	3687.495	Outer_Full	11.90	/	/	<=13	Pass
CP-OFDM 64 QAM	3562.5	Outer_Full	12.01	/	/	<=13	Pass
	3625.005	Outer_Full	12.01	/	/	<=13	Pass
	3687.495	Outer_Full	11.97	/	/	<=13	Pass
CP-OFDM 256 QAM	3562.5	Outer_Full	11.75	/	/	<=13	Pass
	3625.005	Outer_Full	11.78	/	/	<=13	Pass
	3687.495	Outer_Full	11.77	/	/	<=13	Pass

8.4.2 Test Graph



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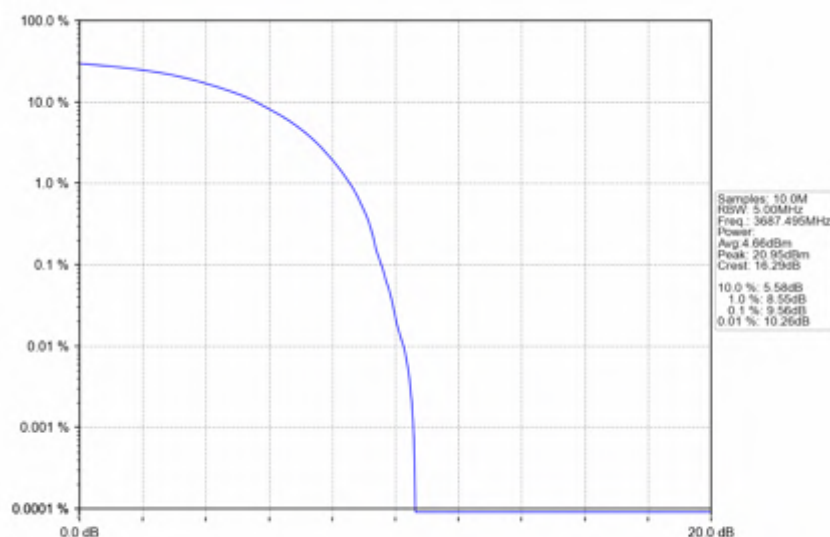
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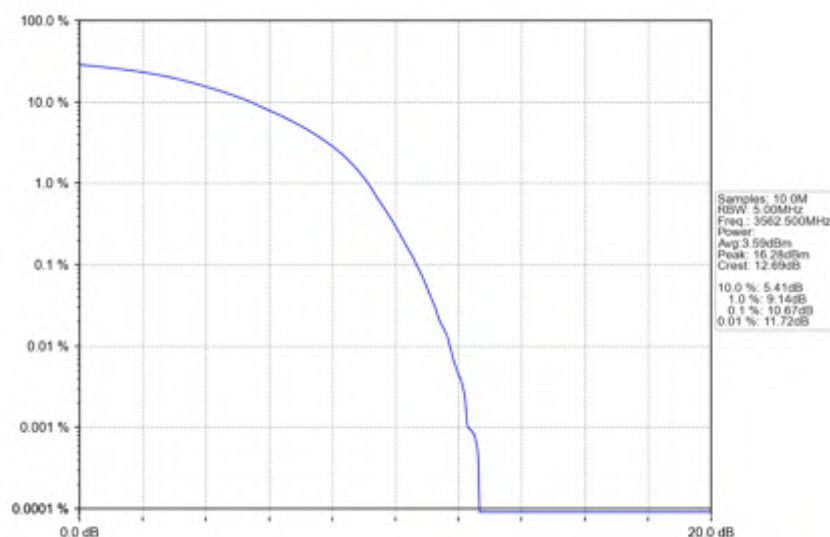
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n78d 15kHz SISO NTV 25MHz DFT-s-OFDM PI/2 BPSK 3687.495MHz Outer Full



n78d	15kHz	SISO	NTNV	25MHz	DFT-s-OFDM	QPSK	3562.5MHz	Outer	Full
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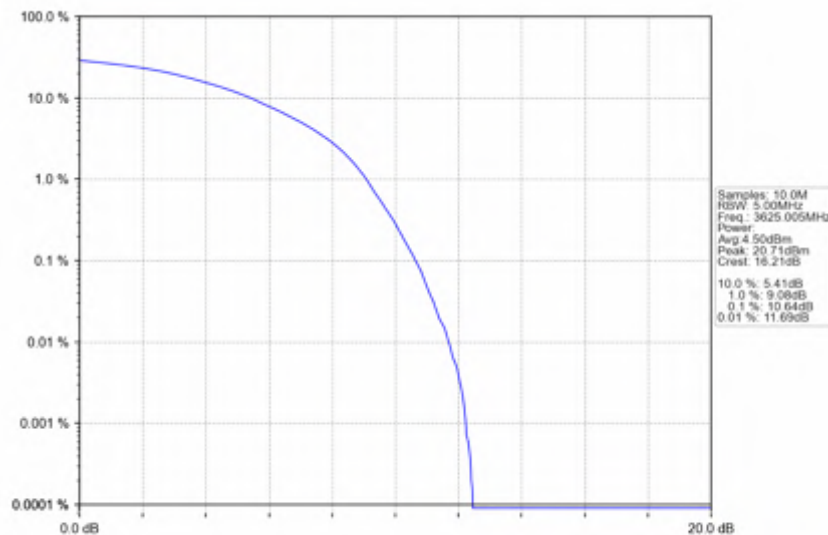


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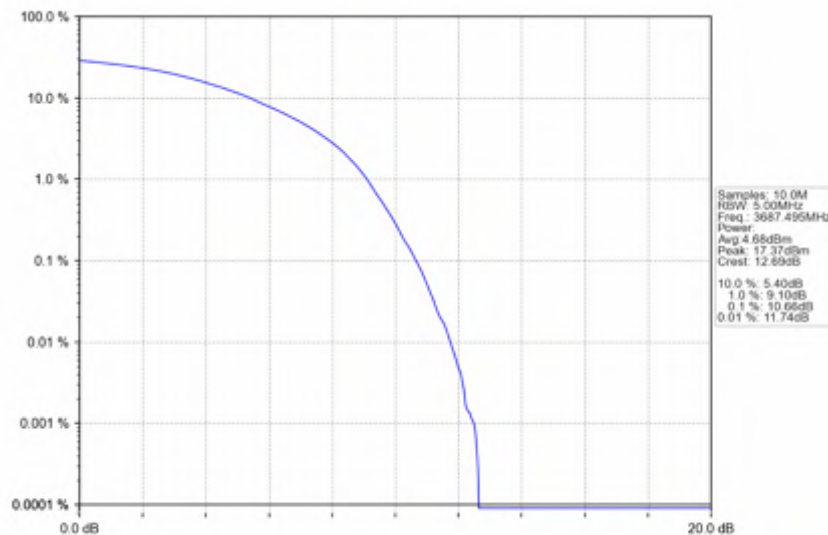
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n78d_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_3625.005MHz_Outer_Full



n78d_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_3687.495MHz_Outer_Full



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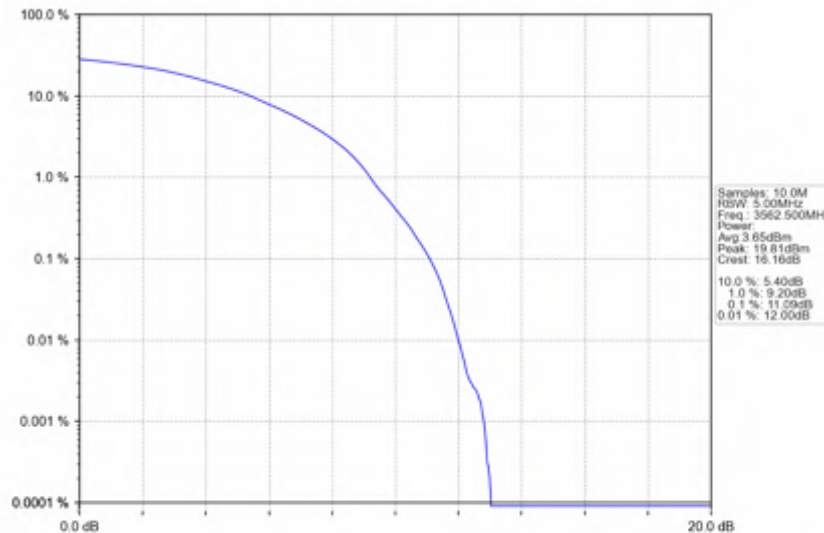
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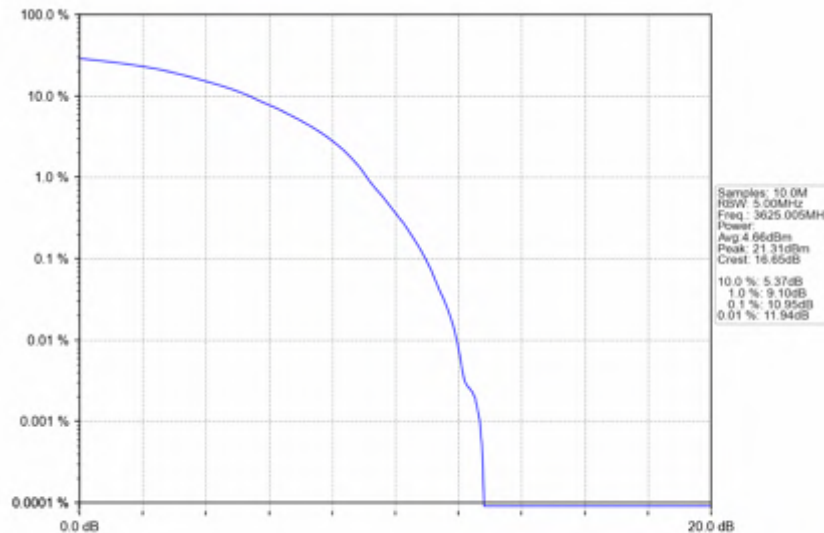
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n78d_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM_16_QAM_3562.5MHz_Outer_Full



n78d_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM_16_QAM_3625.005MHz_Outer_Full



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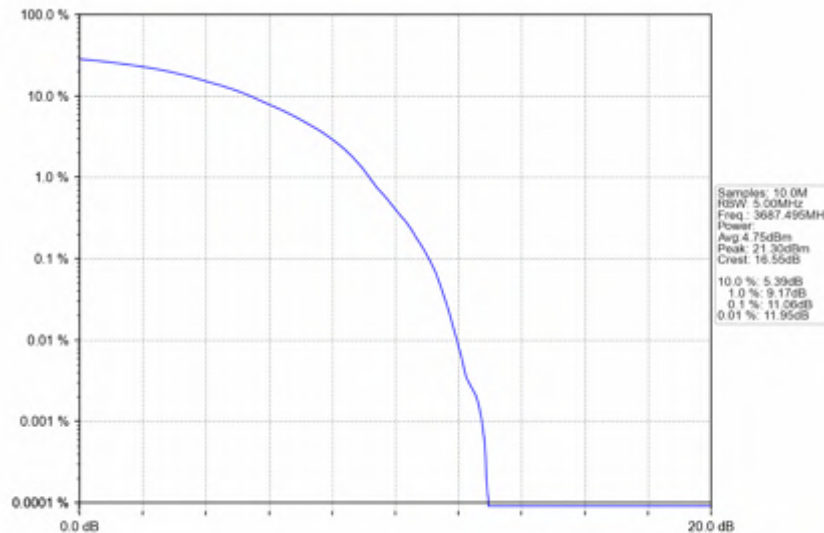
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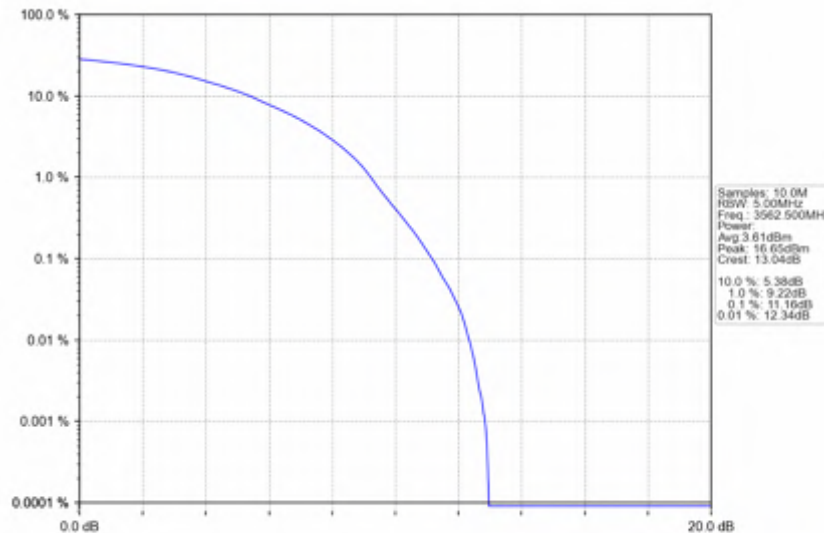
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n78d_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM 16 QAM_3687.495MHz_Outer_Full



n78d_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM 64 QAM_3562.5MHz_Outer_Full



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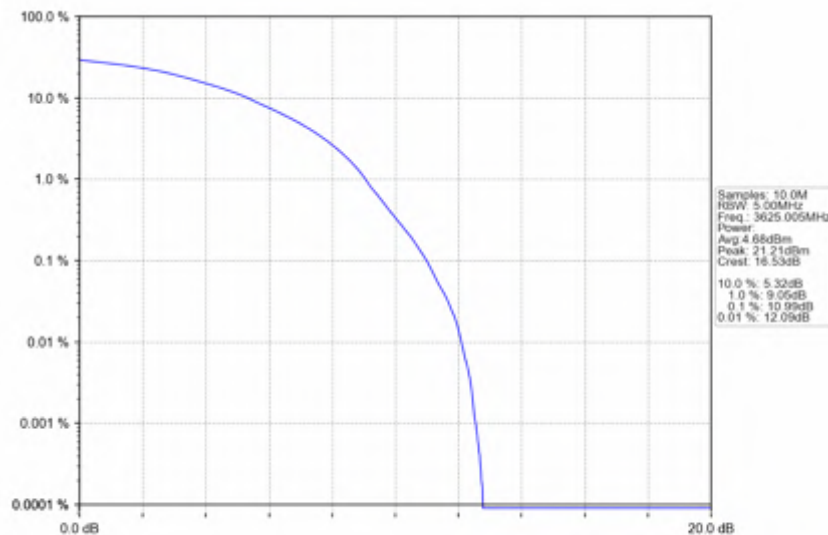
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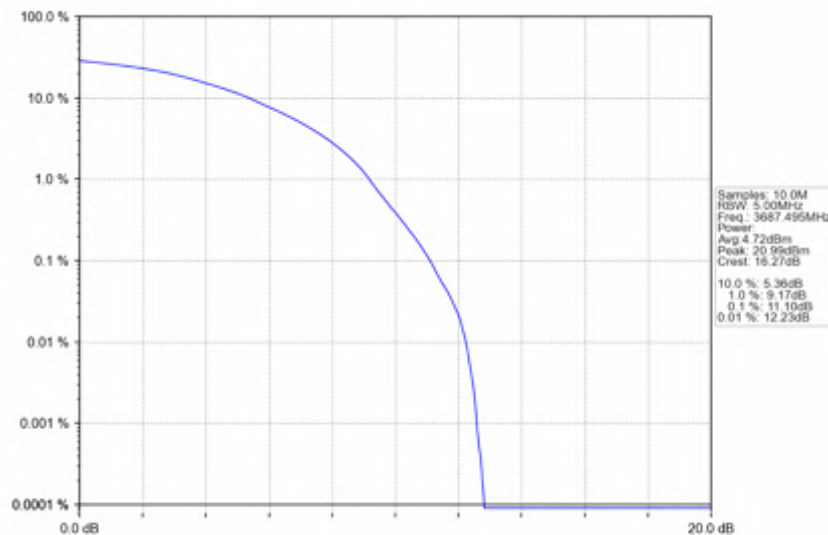
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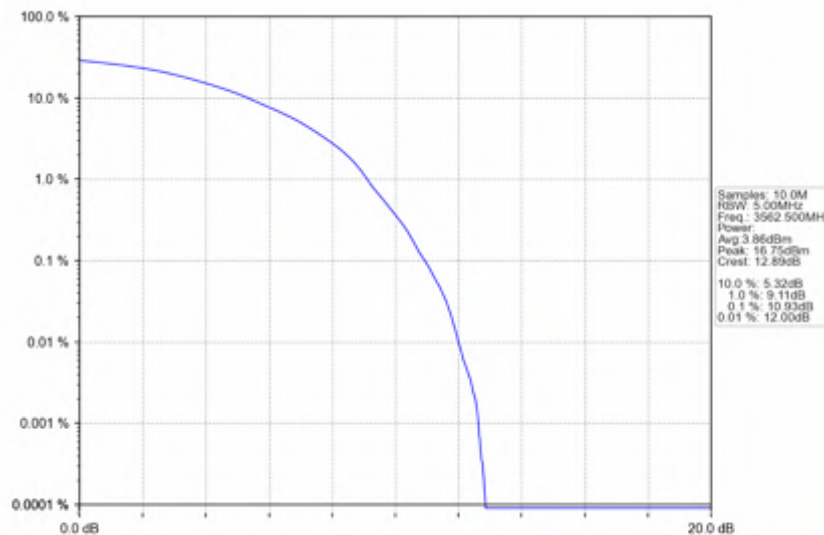
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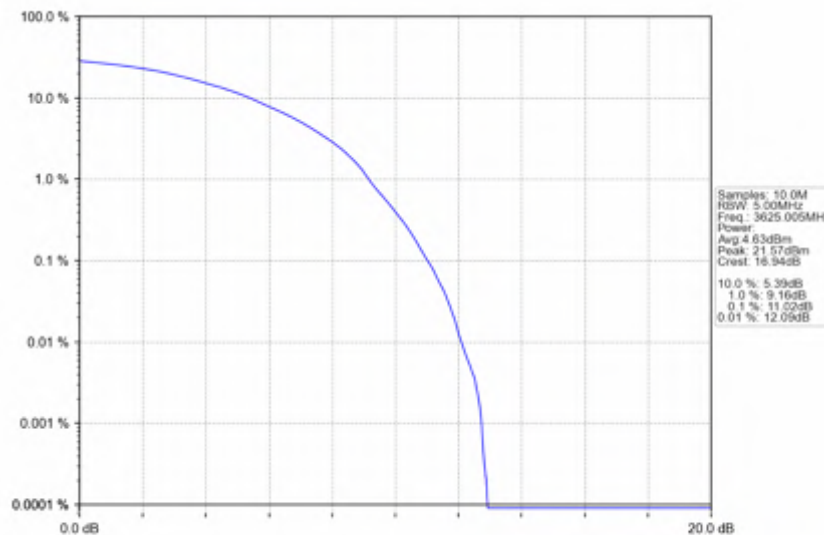
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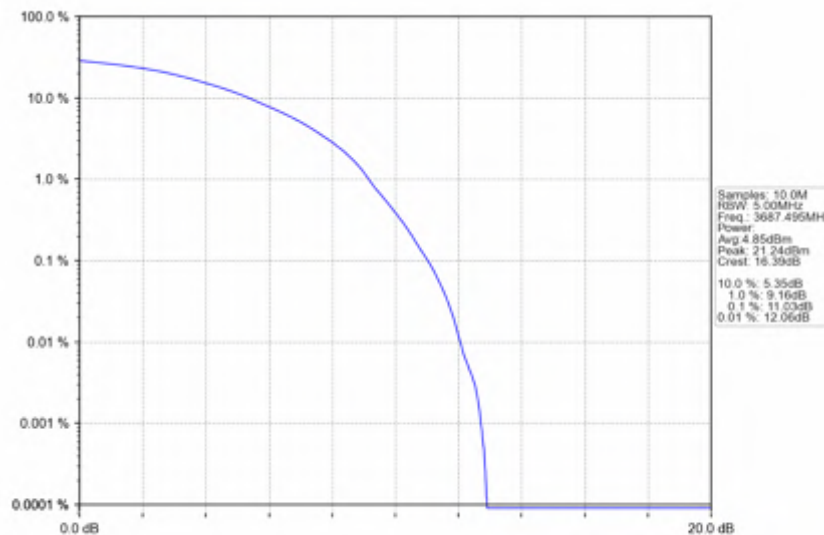
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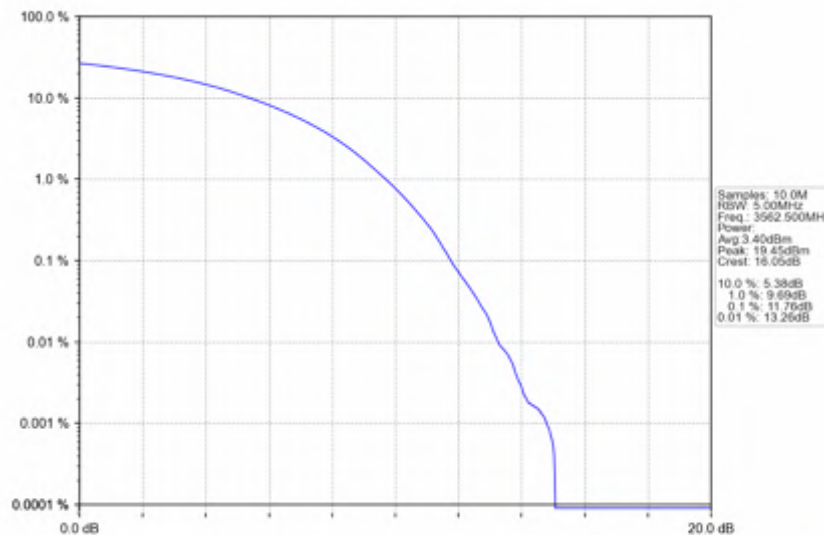
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n78d_15kHz_SISO_NTNV_25MHz_CP-OFDM QPSK_3562.5MHz_Outer_Full



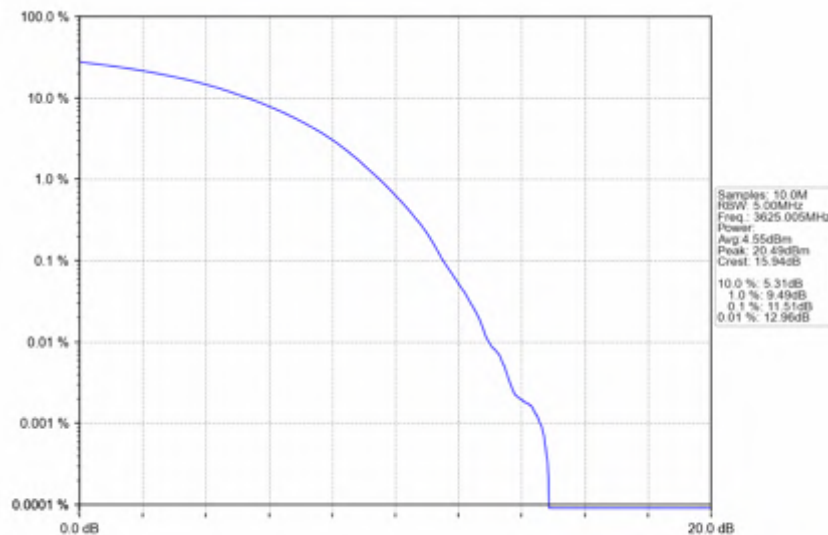
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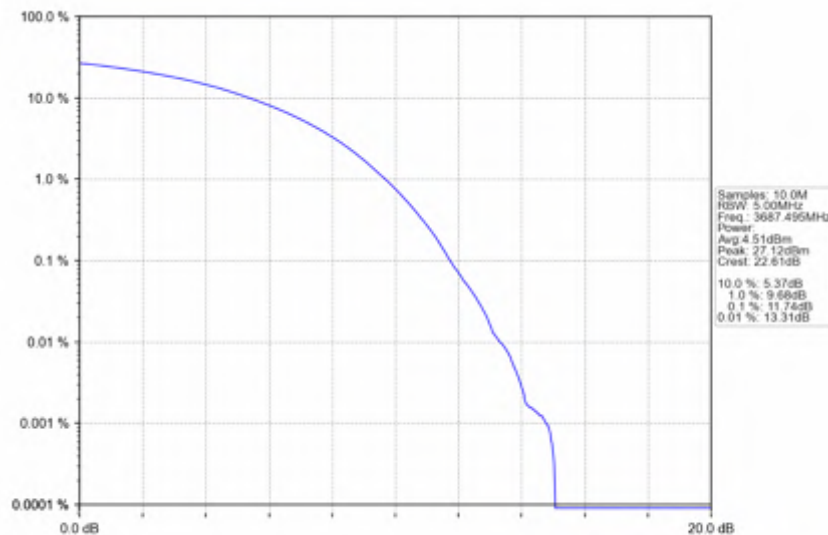
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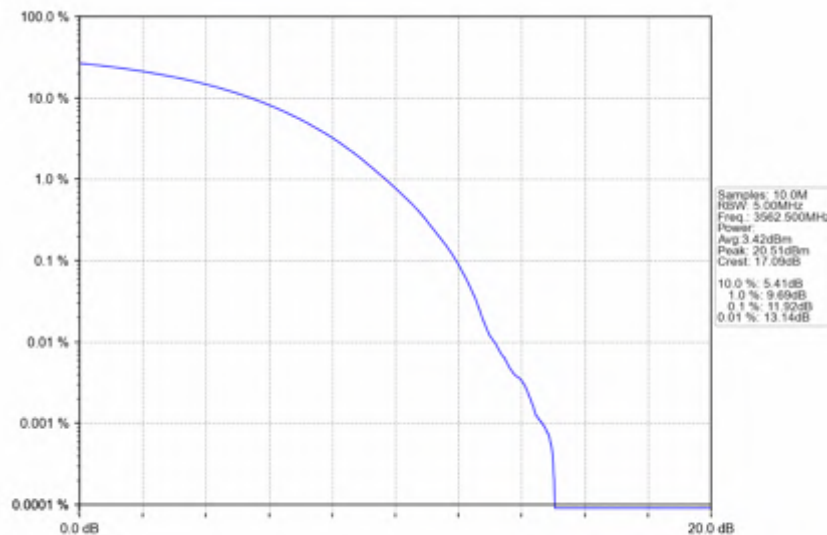
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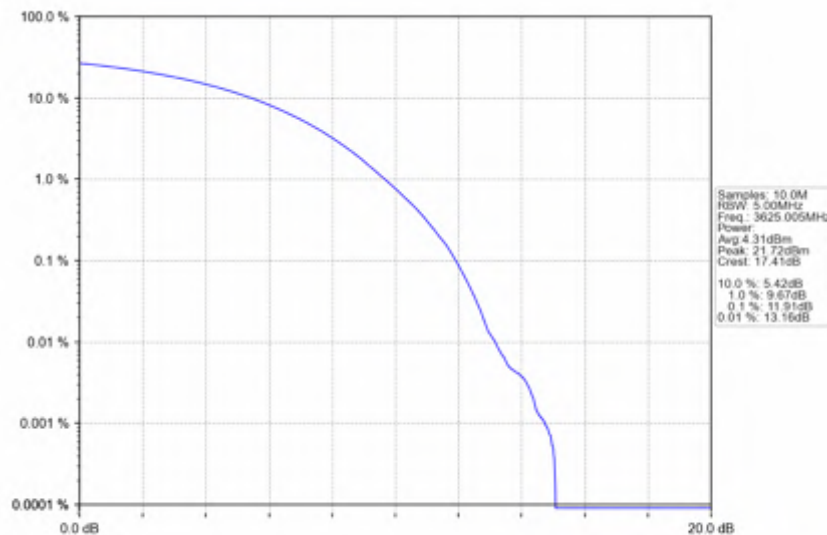
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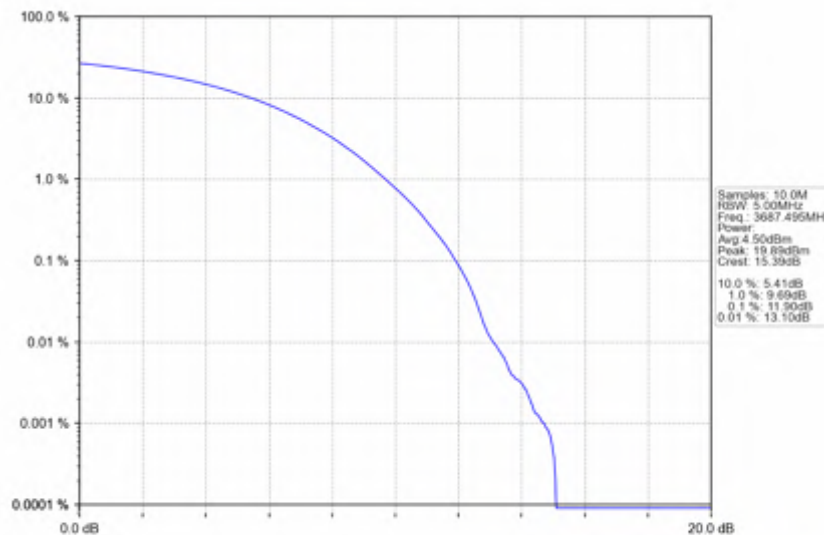
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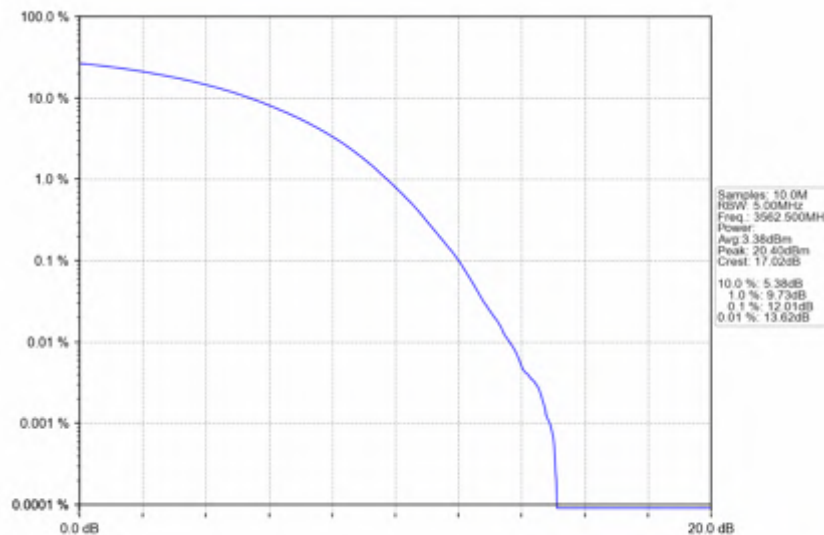
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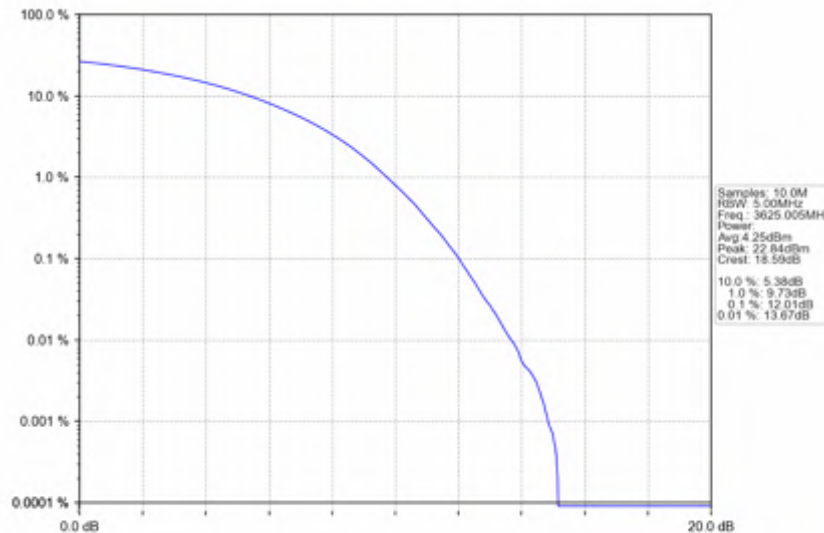
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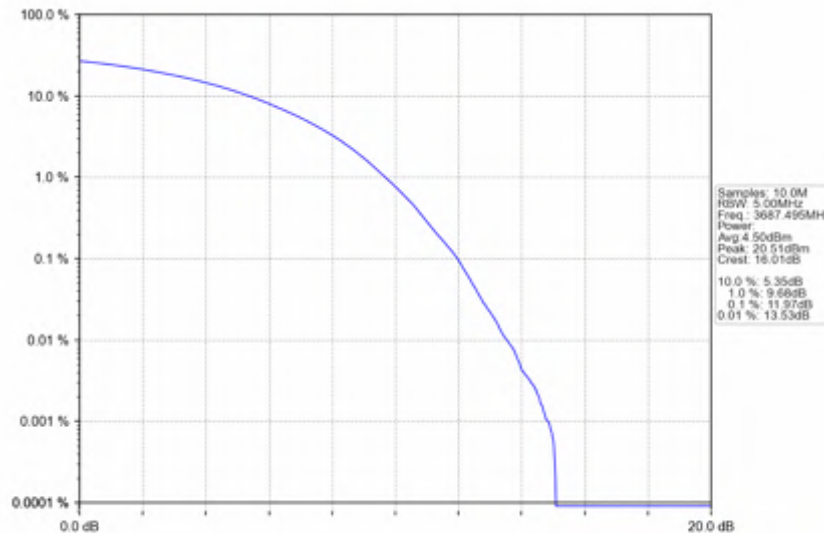
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n78d_15kHz_SISO_NTNV_25MHz_CP-OFDM_64_QAM_3625.005MHz_Outer_Full



n78d_15kHz_SISO_NTNV_25MHz_CP-OFDM_64_QAM_3687.495MHz_Outer_Full



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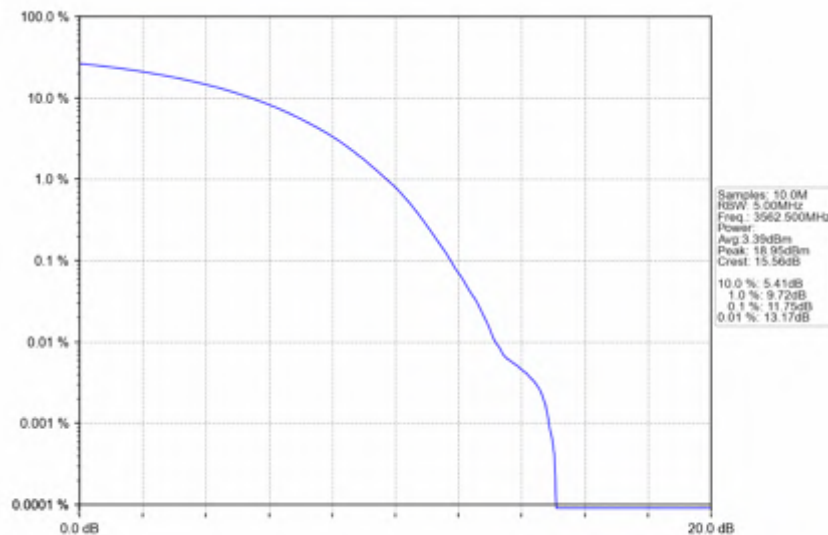
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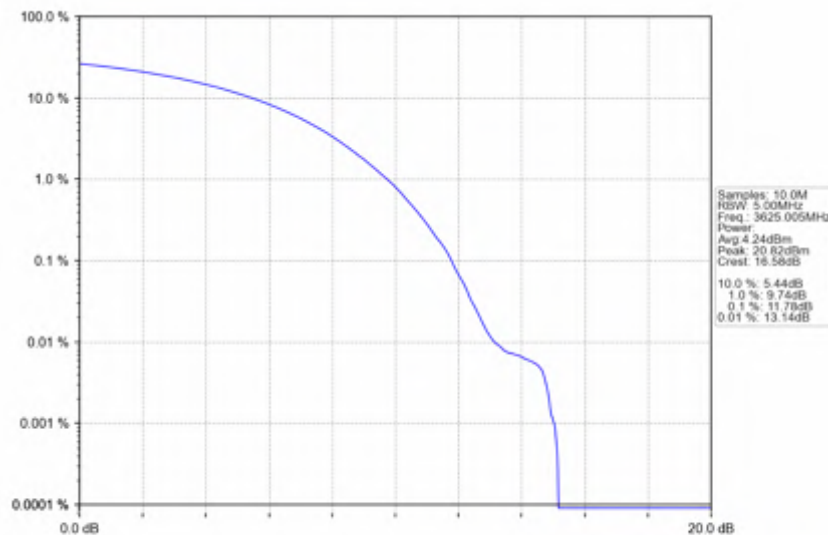
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n78d_15kHz_SISO_NTNV_25MHz_CP-OFDM_256_QAM_3562.5MHz_Outer_Full



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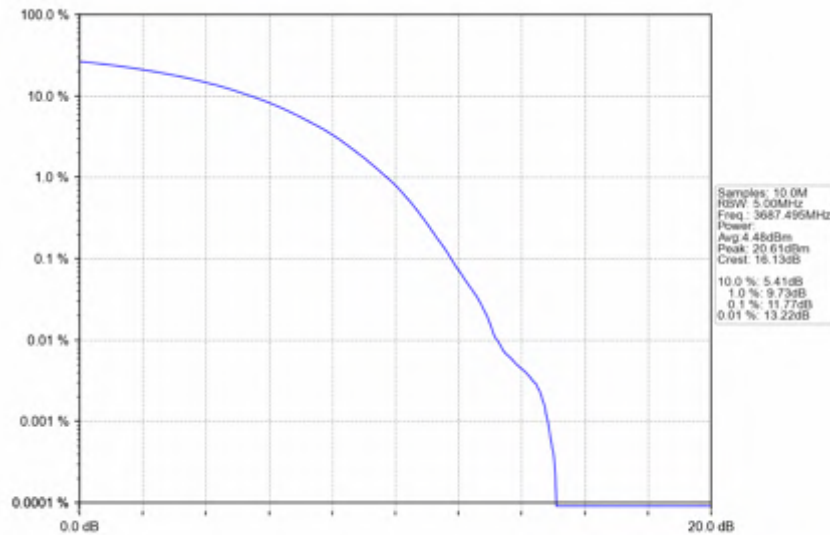
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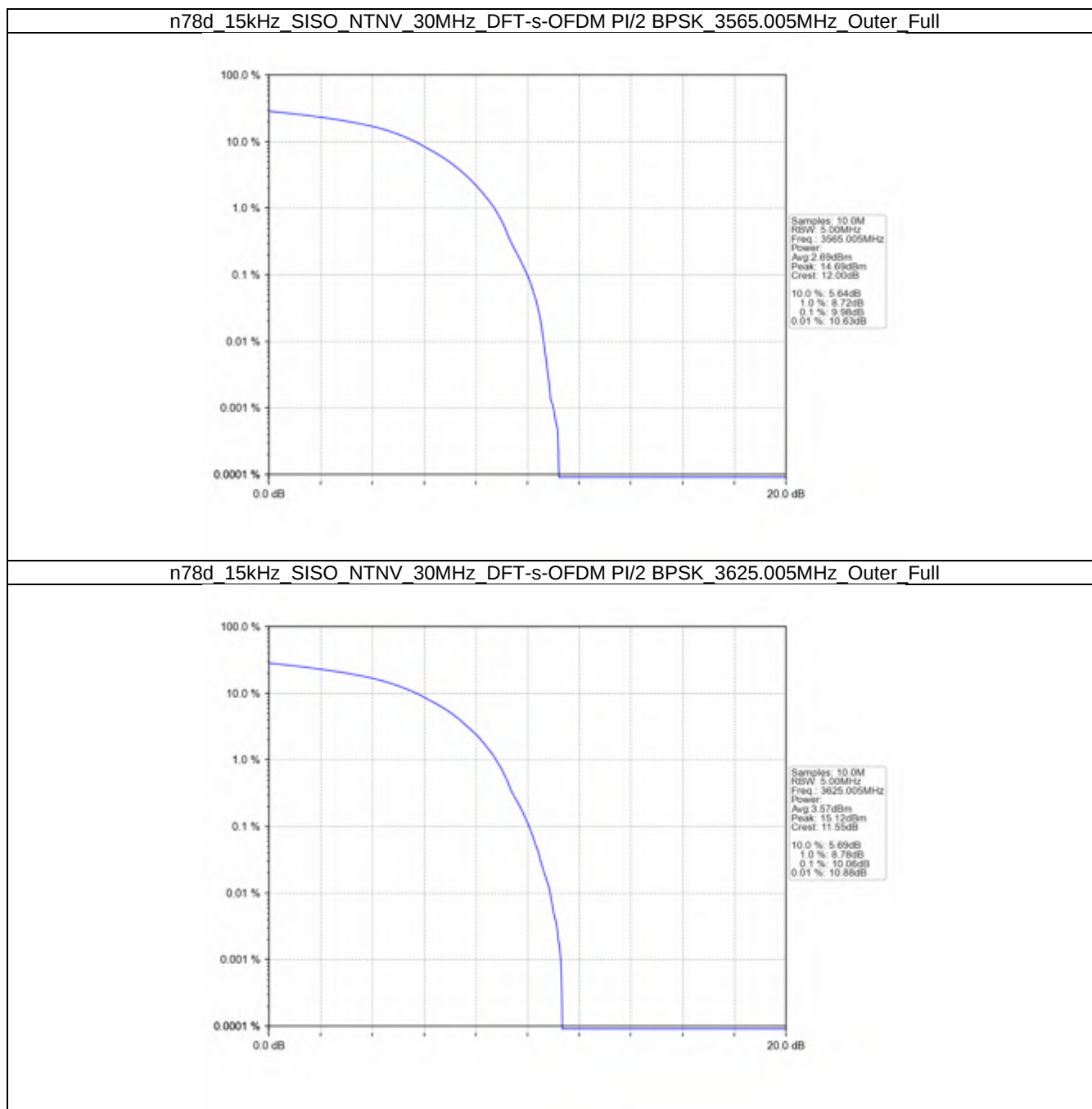
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8.5 15k_SISO_30MHz_NTNV

8.5.1 Test Result

5G NR n78d 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	3565.005	Outer_Full	9.98	/	/	<=13	Pass
	3625.005	Outer_Full	10.06	/	/	<=13	Pass
	3684.99	Outer_Full	10.09	/	/	<=13	Pass
DFT-s-OFDM QPSK	3565.005	Outer_Full	10.77	/	/	<=13	Pass
	3625.005	Outer_Full	10.82	/	/	<=13	Pass
	3684.99	Outer_Full	10.71	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3565.005	Outer_Full	10.96	/	/	<=13	Pass
	3625.005	Outer_Full	11.11	/	/	<=13	Pass
	3684.99	Outer_Full	10.99	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3565.005	Outer_Full	11.13	/	/	<=13	Pass
	3625.005	Outer_Full	11.33	/	/	<=13	Pass
	3684.99	Outer_Full	11.06	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3565.005	Outer_Full	11.25	/	/	<=13	Pass
	3625.005	Outer_Full	11.10	/	/	<=13	Pass
	3684.99	Outer_Full	11.24	/	/	<=13	Pass
CP-OFDM QPSK	3565.005	Outer_Full	11.80	/	/	<=13	Pass
	3625.005	Outer_Full	12.03	/	/	<=13	Pass
	3684.99	Outer_Full	11.96	/	/	<=13	Pass
CP-OFDM 16 QAM	3565.005	Outer_Full	11.68	/	/	<=13	Pass
	3625.005	Outer_Full	11.97	/	/	<=13	Pass
	3684.99	Outer_Full	11.74	/	/	<=13	Pass
CP-OFDM 64 QAM	3565.005	Outer_Full	11.88	/	/	<=13	Pass
	3625.005	Outer_Full	11.72	/	/	<=13	Pass
	3684.99	Outer_Full	11.68	/	/	<=13	Pass
CP-OFDM 256 QAM	3565.005	Outer_Full	11.70	/	/	<=13	Pass
	3625.005	Outer_Full	11.74	/	/	<=13	Pass
	3684.99	Outer_Full	11.88	/	/	<=13	Pass

8.5.2 Test Graph



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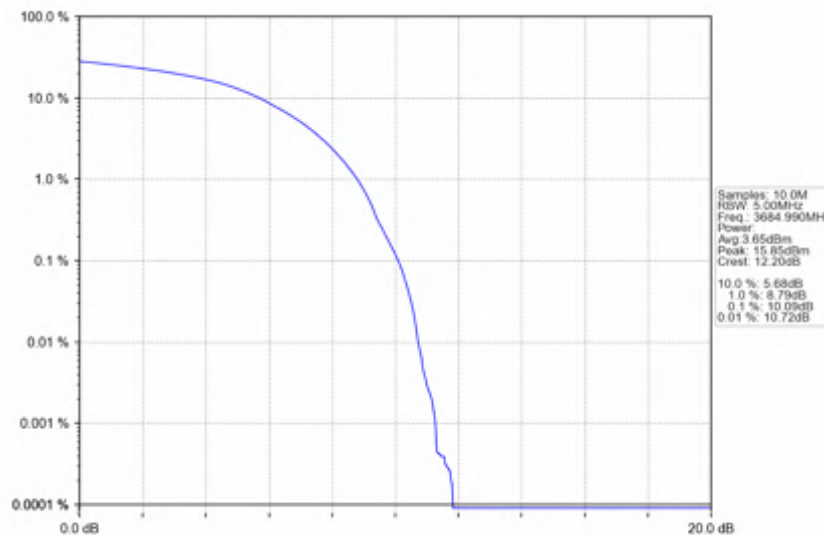
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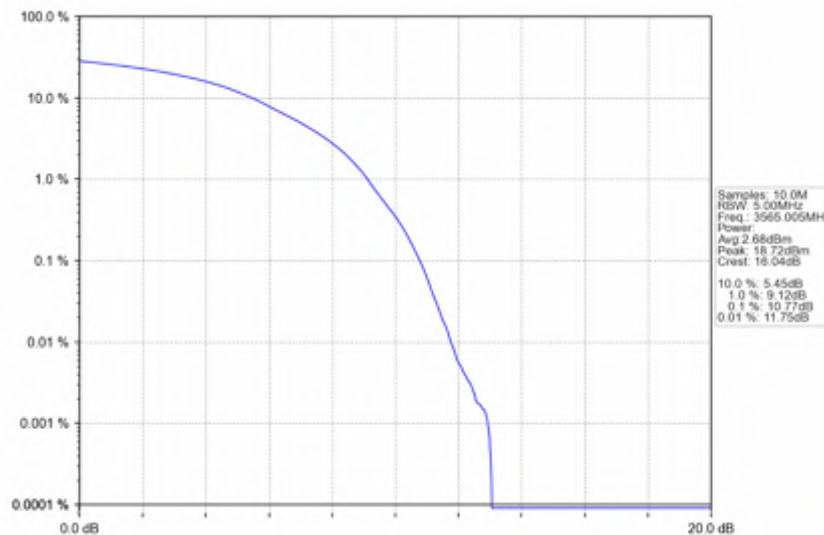
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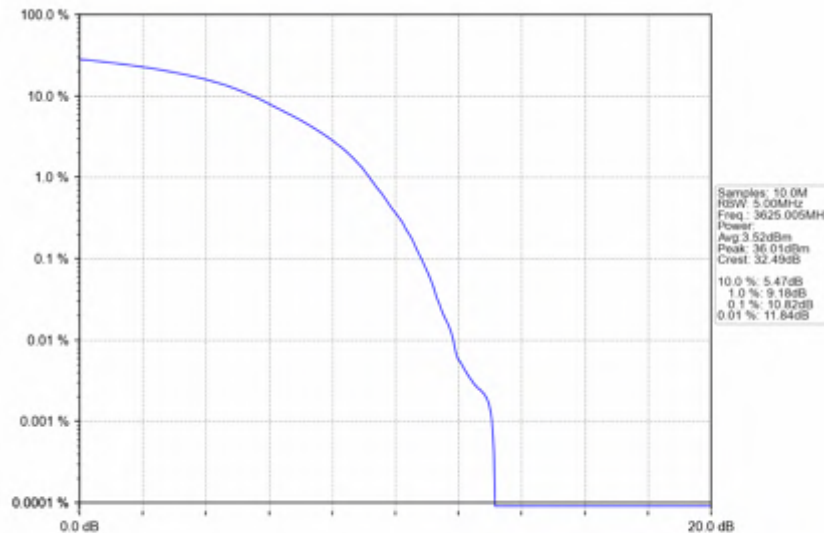


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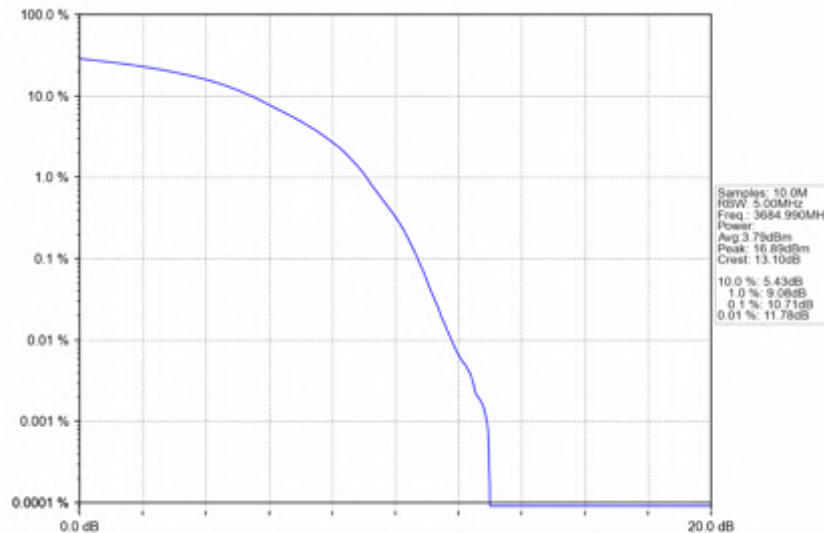
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n78d_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_3684.99MHz_Outer_Full



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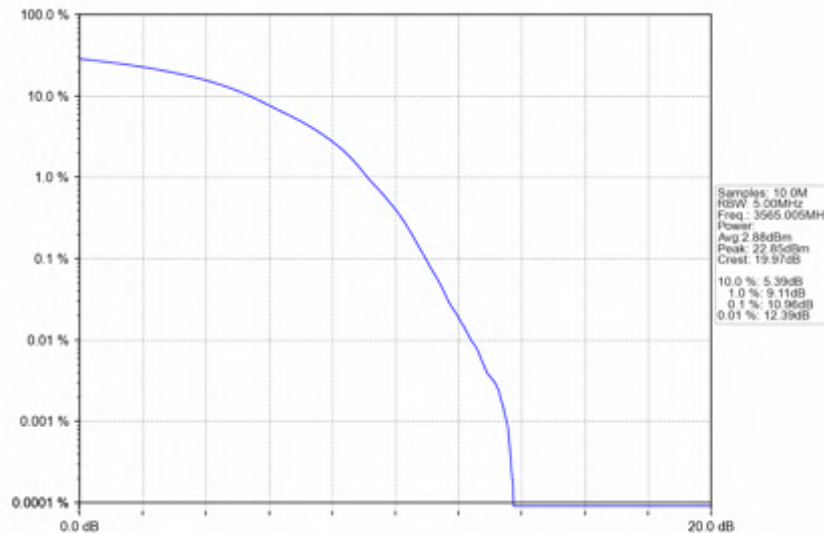
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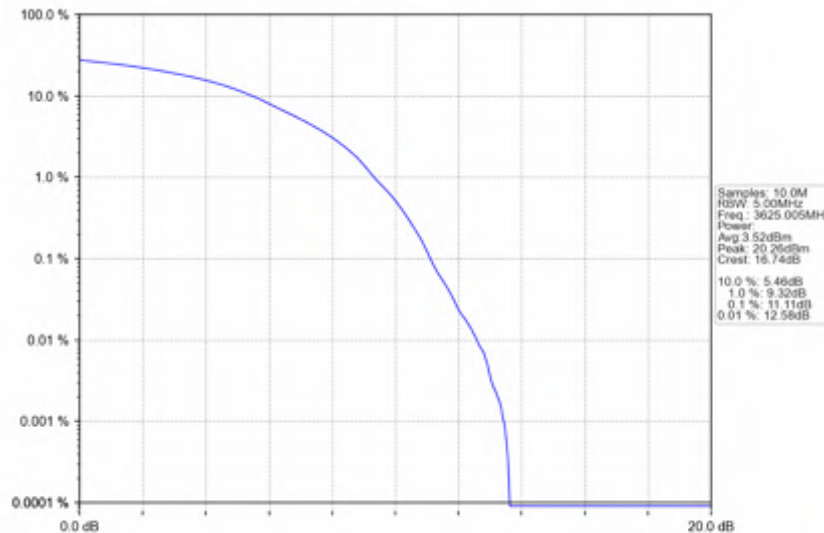
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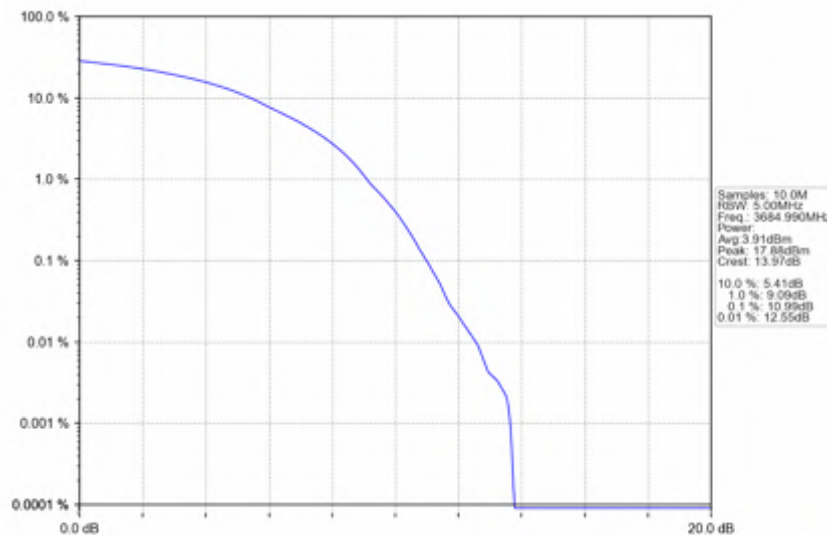
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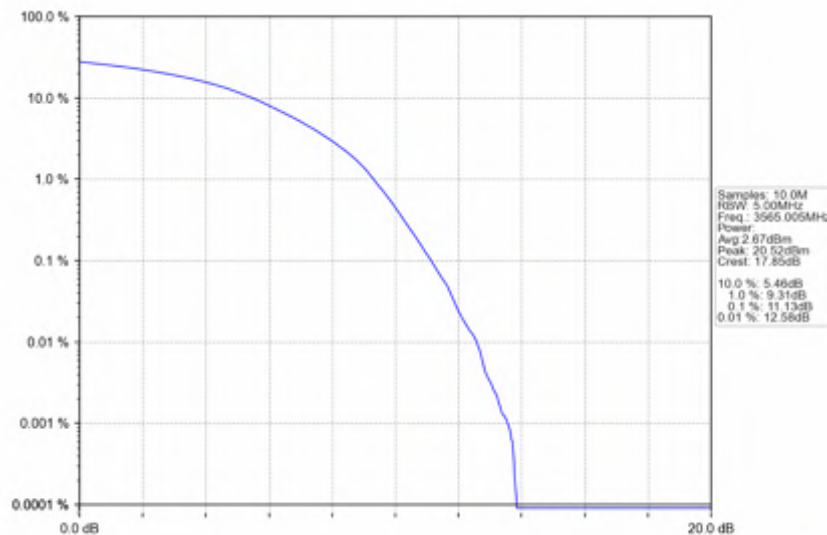
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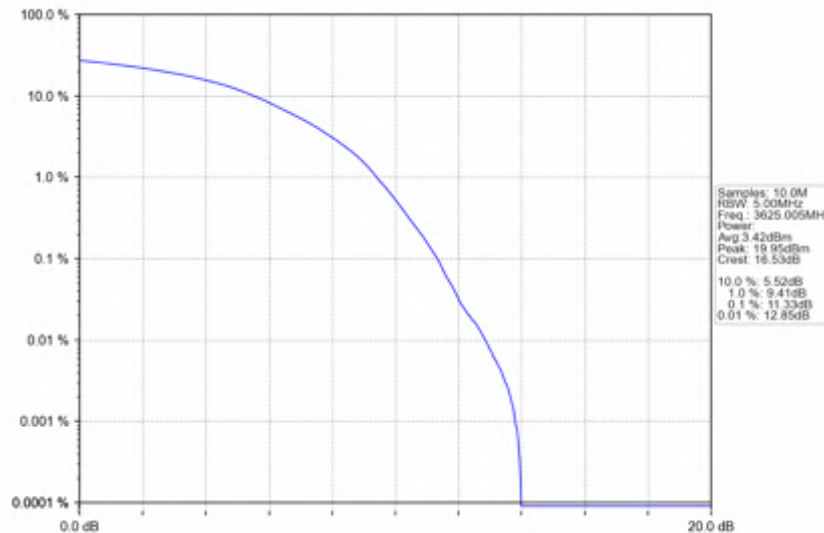


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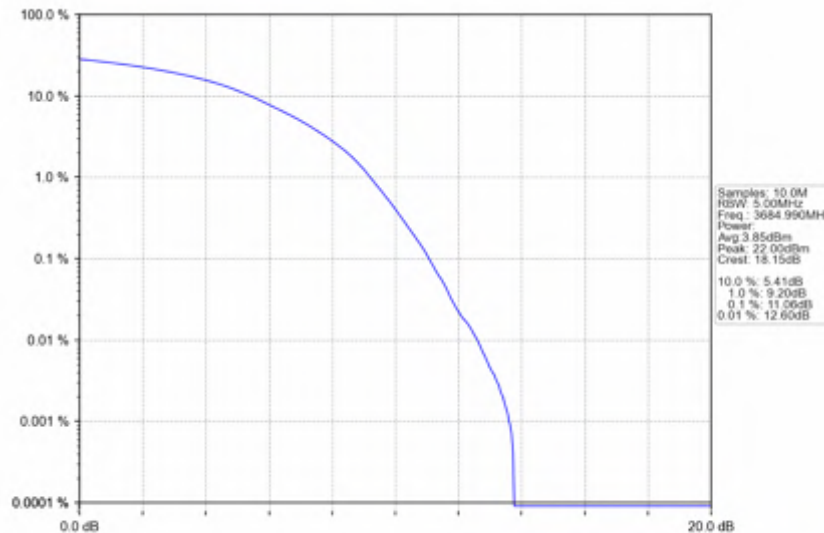
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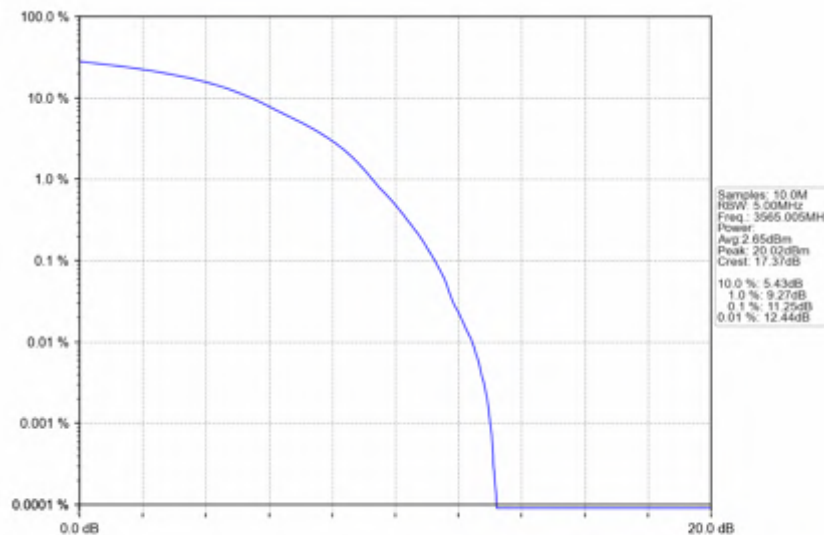
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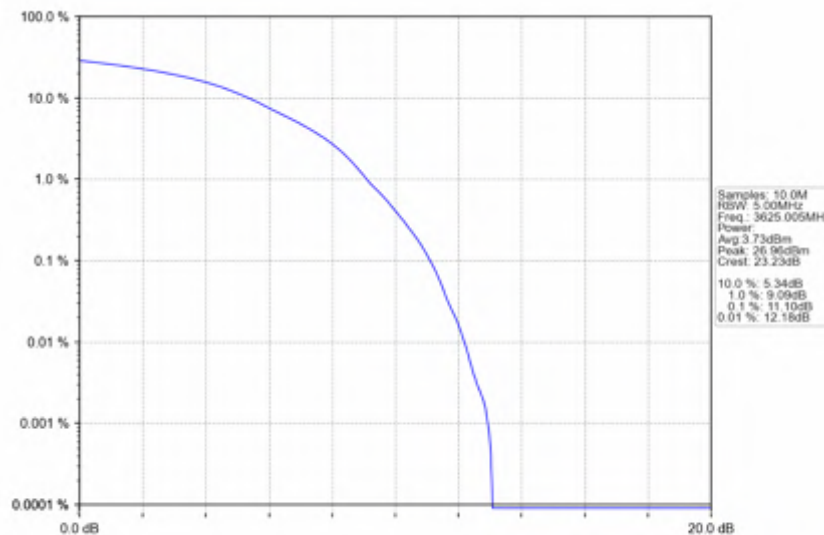
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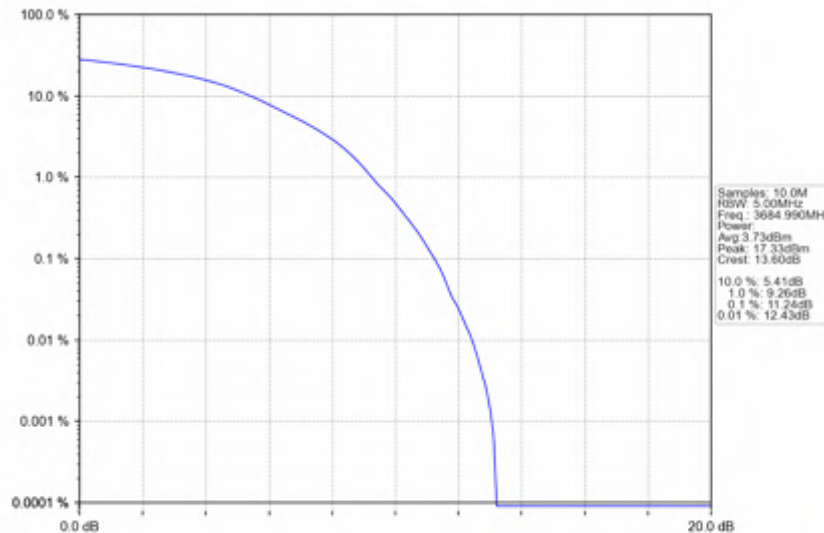


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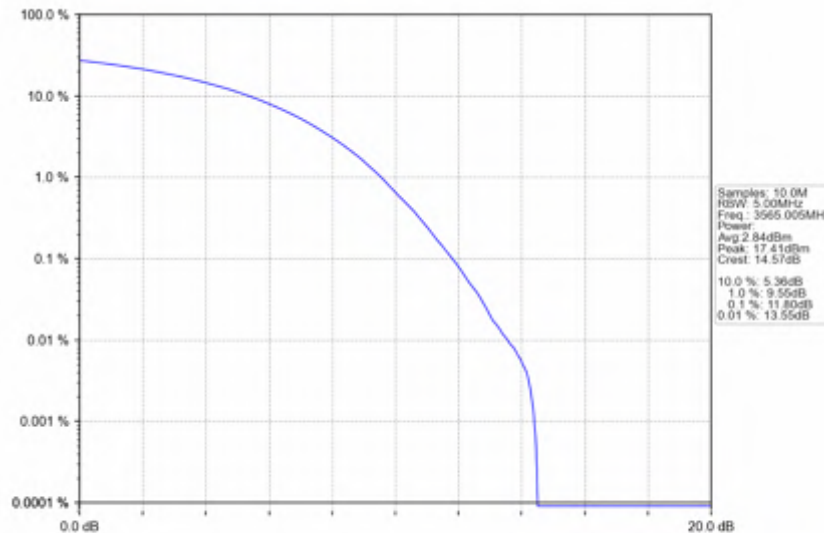
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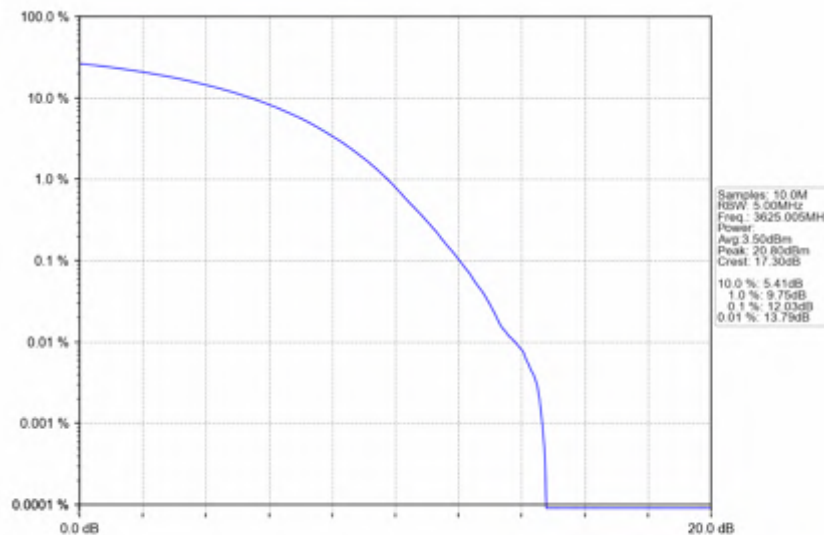
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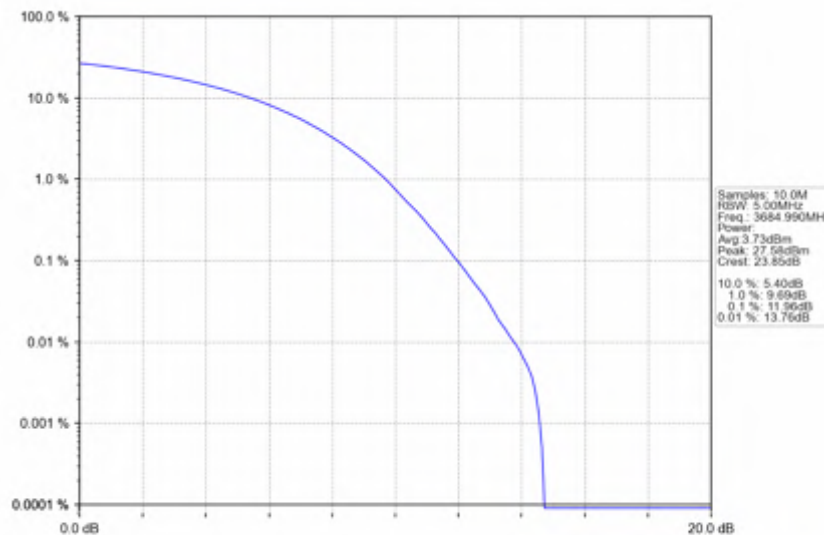
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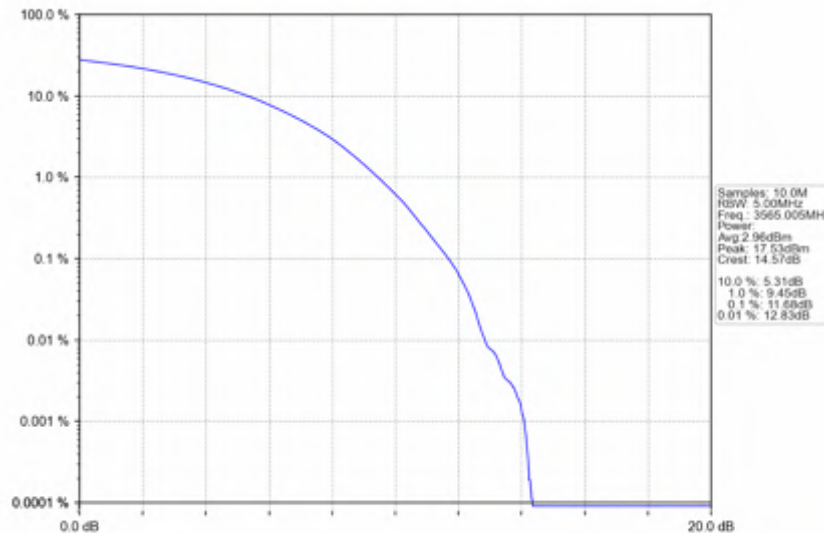


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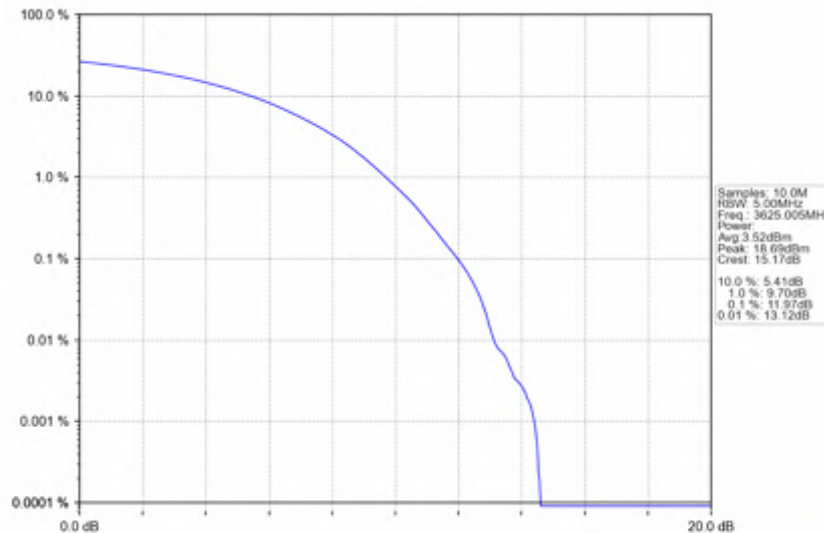
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n78d_15kHz_SISO_NTNV_30MHz_CP-OFDM_16_QAM_3565.005MHz_Outer_Full



n78d_15kHz_SISO_NTNV_30MHz_CP-OFDM_16_QAM_3625.005MHz_Outer_Full



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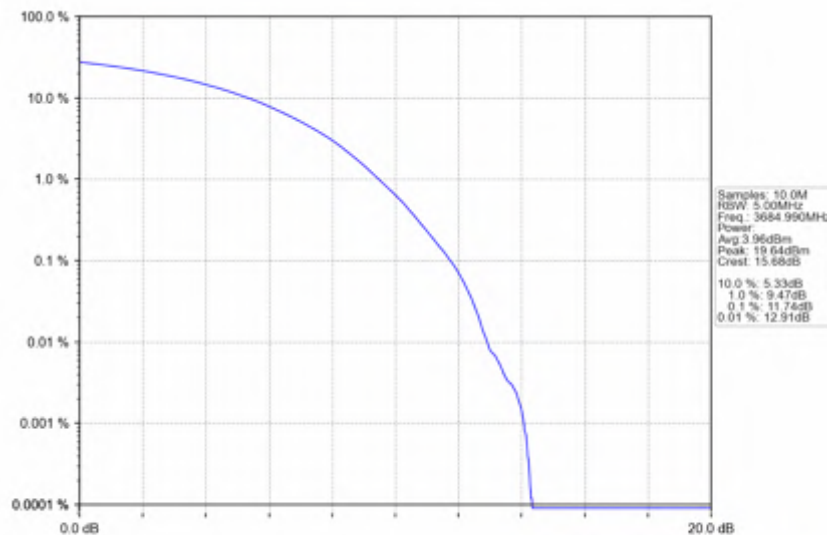
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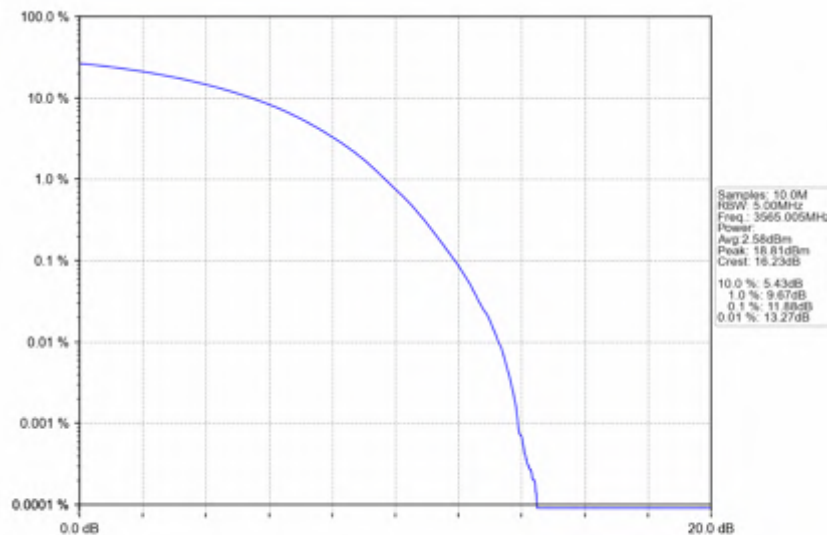
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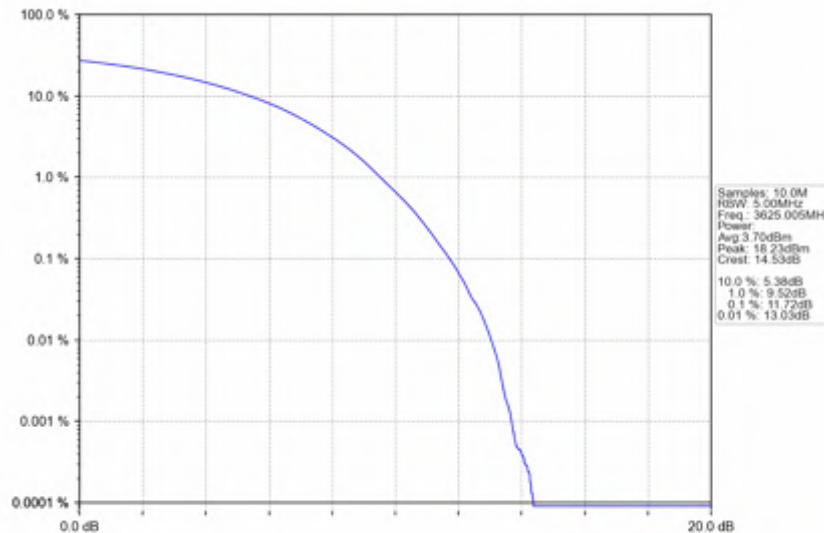
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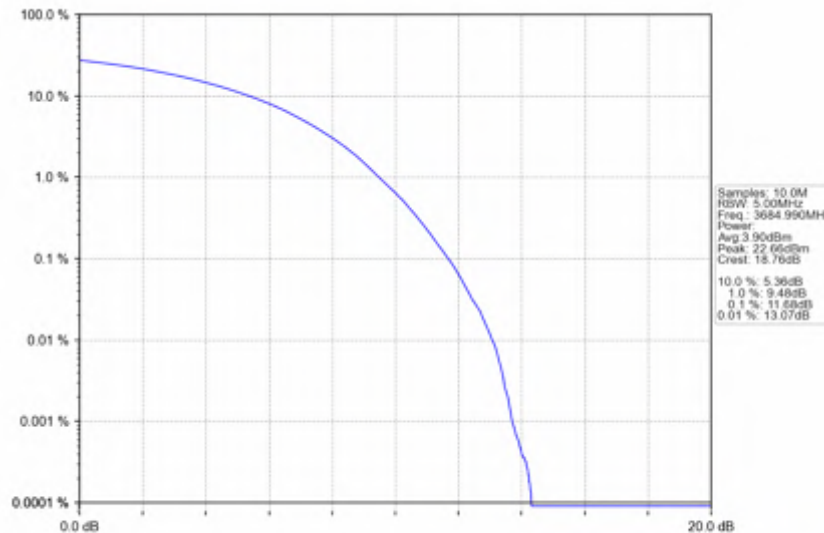
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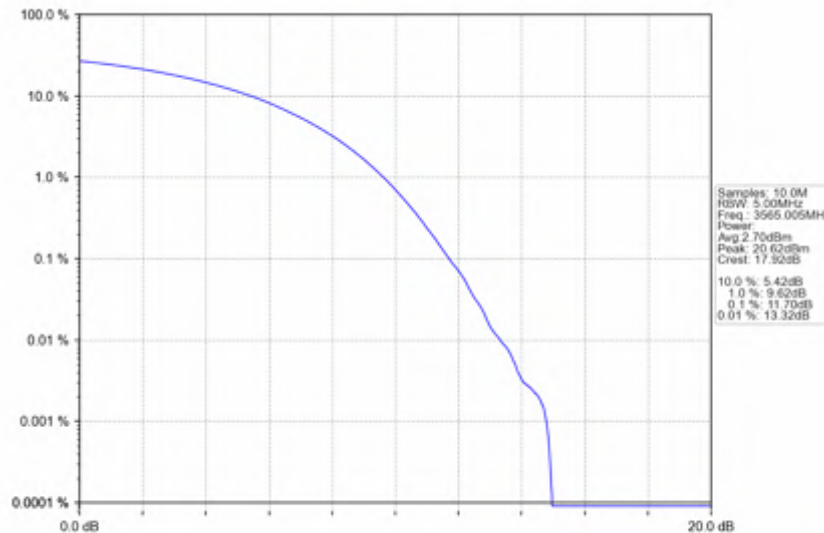


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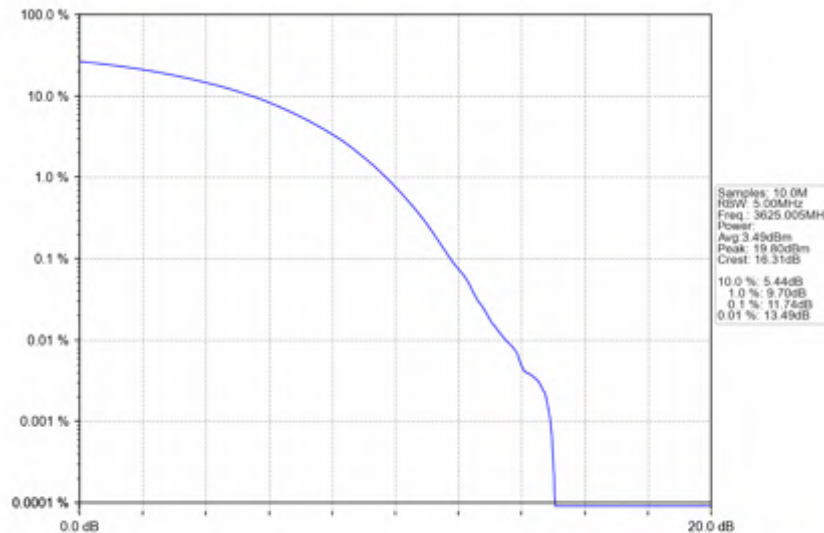
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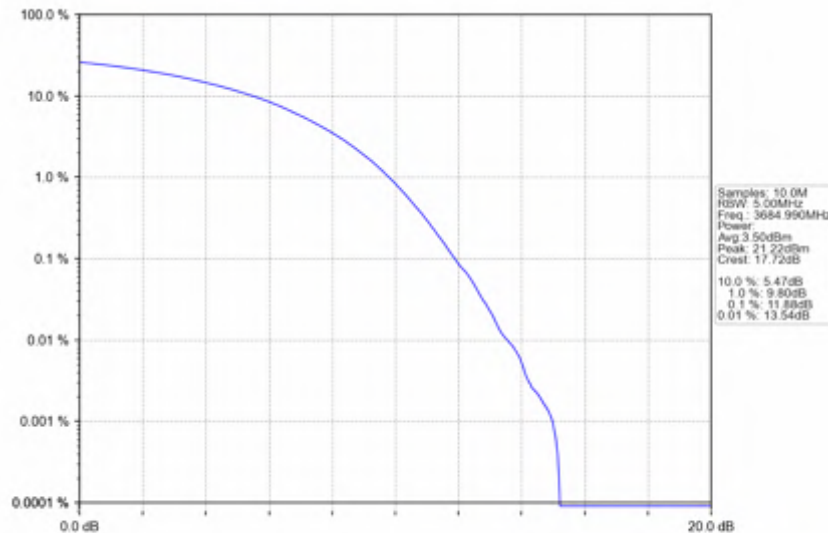


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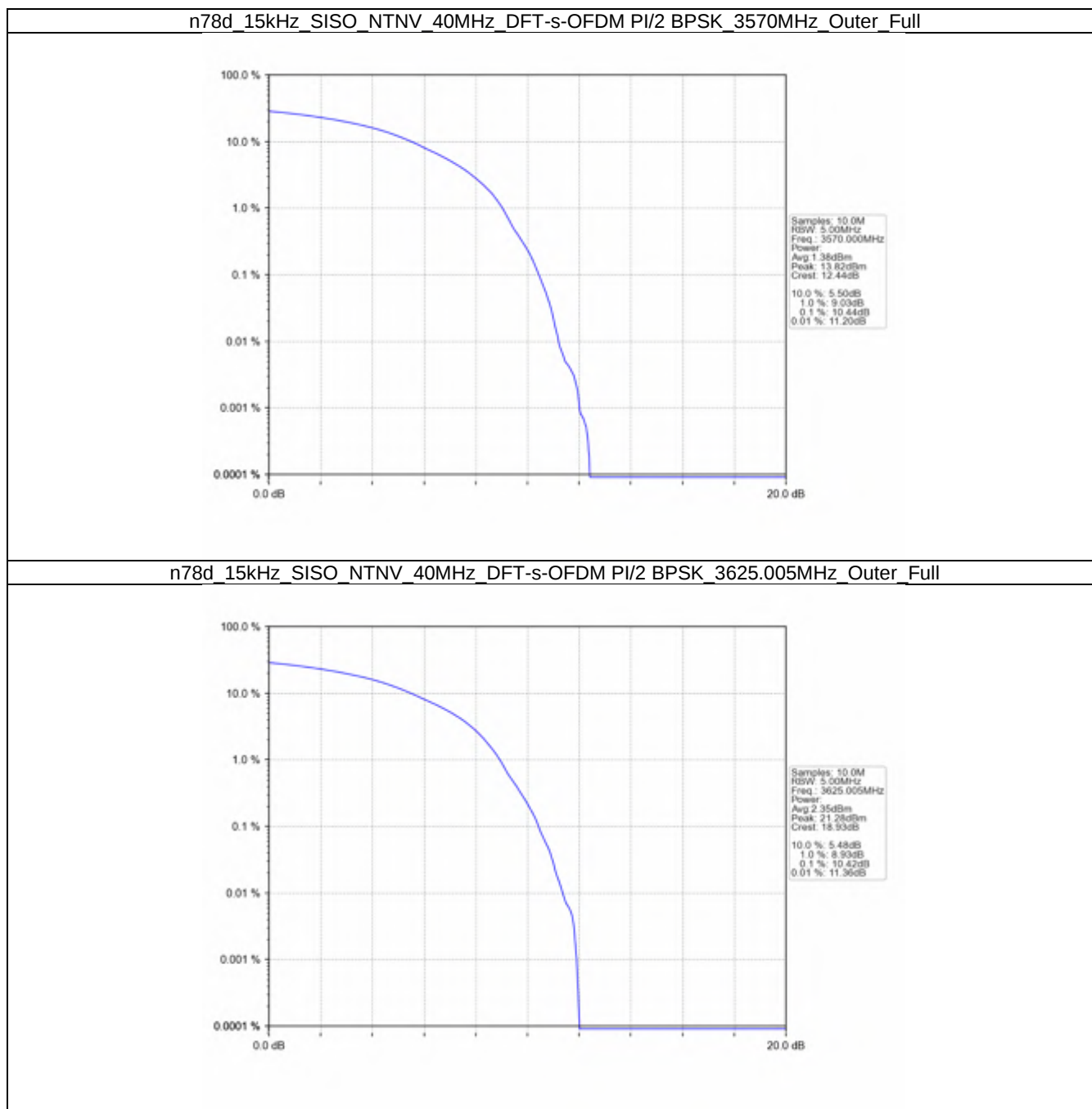
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8.6 15k_SISO_40MHz_NTNV

8.6.1 Test Result

5G NR n78d 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	3570	Outer_Full	10.44	/	/	<=13	Pass
	3625.005	Outer_Full	10.42	/	/	<=13	Pass
	3679.995	Outer_Full	10.45	/	/	<=13	Pass
DFT-s-OFDM QPSK	3570	Outer_Full	11.09	/	/	<=13	Pass
	3625.005	Outer_Full	11.15	/	/	<=13	Pass
	3679.995	Outer_Full	11.03	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3570	Outer_Full	11.18	/	/	<=13	Pass
	3625.005	Outer_Full	11.45	/	/	<=13	Pass
	3679.995	Outer_Full	11.37	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3570	Outer_Full	11.23	/	/	<=13	Pass
	3625.005	Outer_Full	11.44	/	/	<=13	Pass
	3679.995	Outer_Full	11.43	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3570	Outer_Full	11.19	/	/	<=13	Pass
	3625.005	Outer_Full	11.16	/	/	<=13	Pass
	3679.995	Outer_Full	11.08	/	/	<=13	Pass
CP-OFDM QPSK	3570	Outer_Full	11.67	/	/	<=13	Pass
	3625.005	Outer_Full	11.55	/	/	<=13	Pass
	3679.995	Outer_Full	11.46	/	/	<=13	Pass
CP-OFDM 16 QAM	3570	Outer_Full	11.55	/	/	<=13	Pass
	3625.005	Outer_Full	11.61	/	/	<=13	Pass
	3679.995	Outer_Full	11.56	/	/	<=13	Pass
CP-OFDM 64 QAM	3570	Outer_Full	11.61	/	/	<=13	Pass
	3625.005	Outer_Full	11.85	/	/	<=13	Pass
	3679.995	Outer_Full	11.64	/	/	<=13	Pass
CP-OFDM 256 QAM	3570	Outer_Full	11.60	/	/	<=13	Pass
	3625.005	Outer_Full	11.66	/	/	<=13	Pass
	3679.995	Outer_Full	11.69	/	/	<=13	Pass

8.6.2 Test Graph



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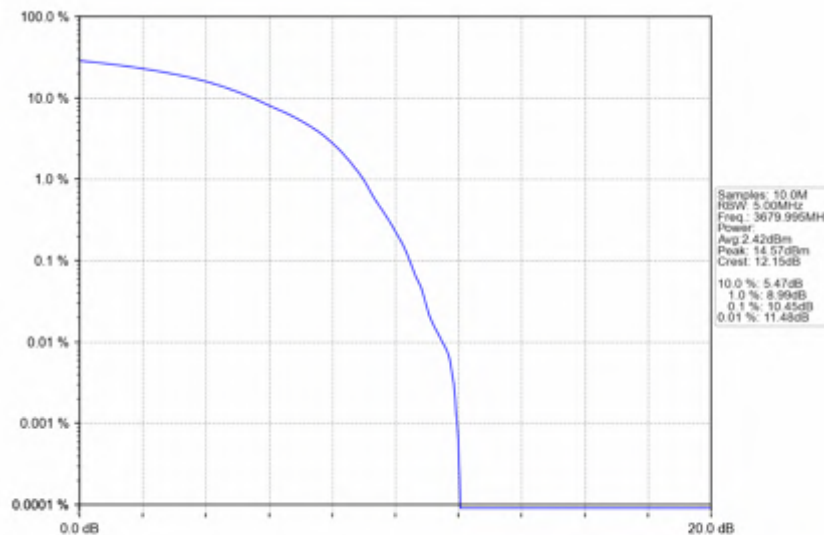
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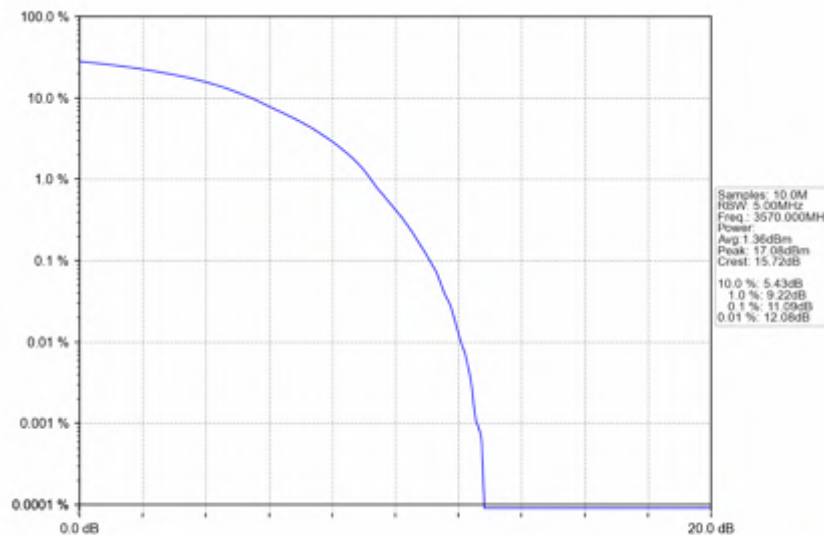
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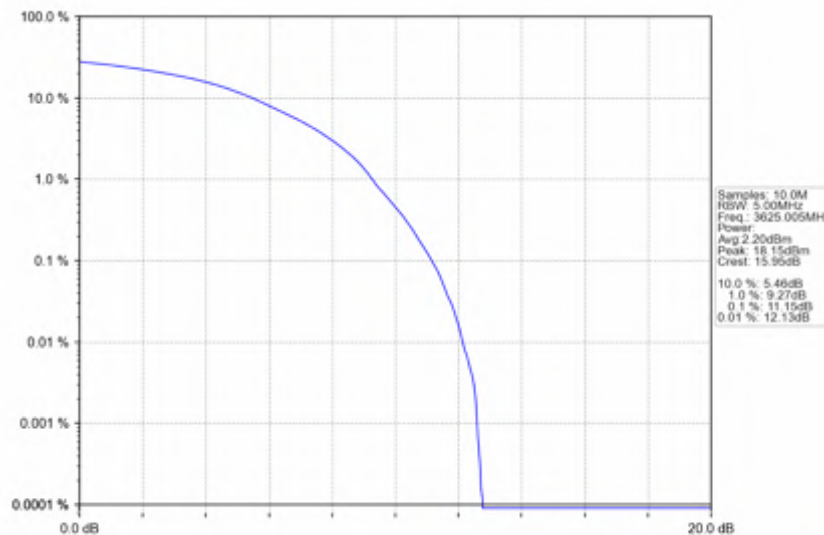
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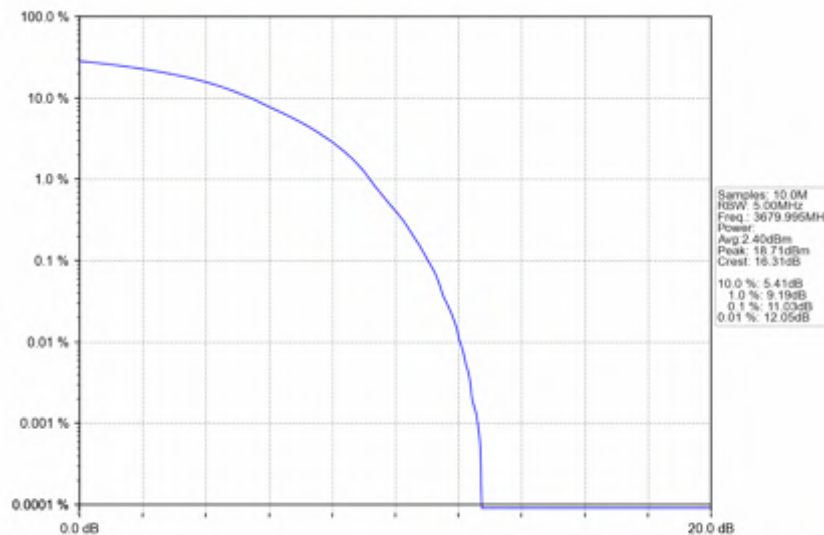
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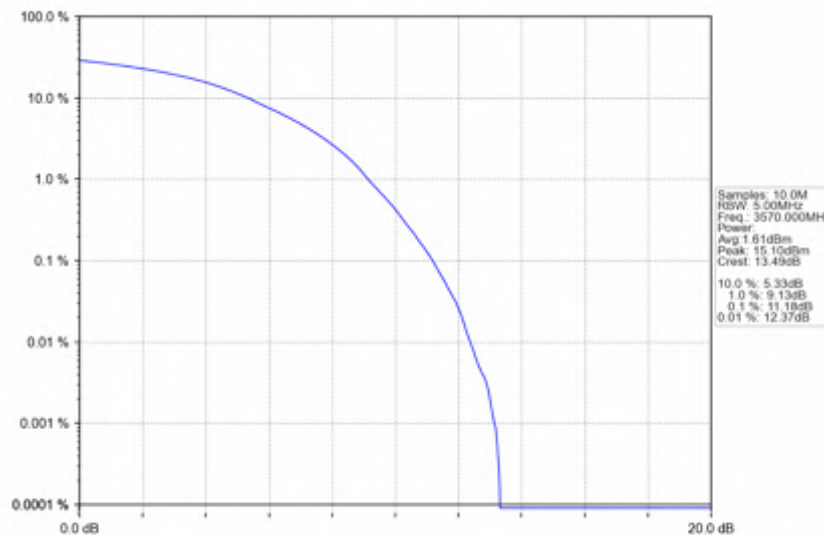
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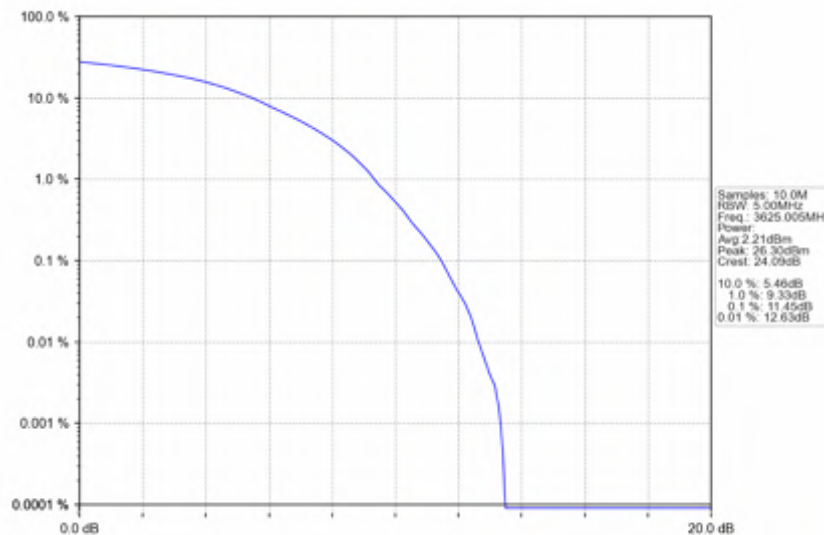
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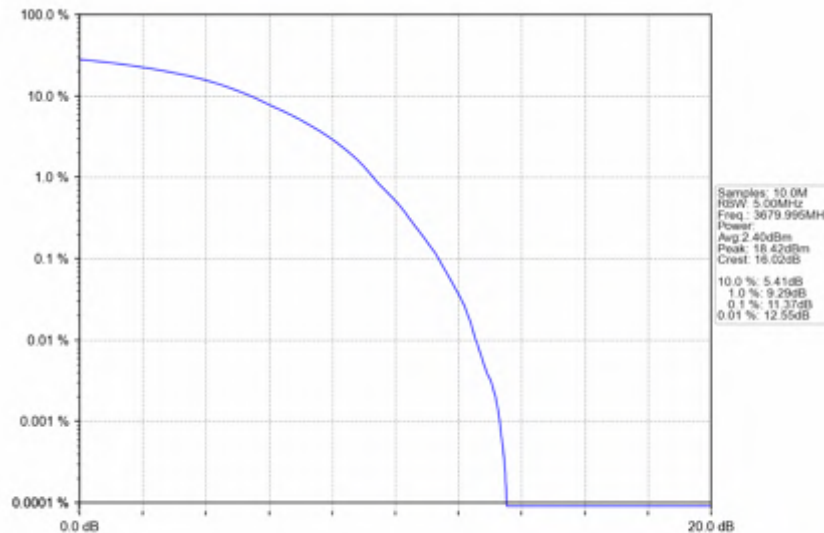
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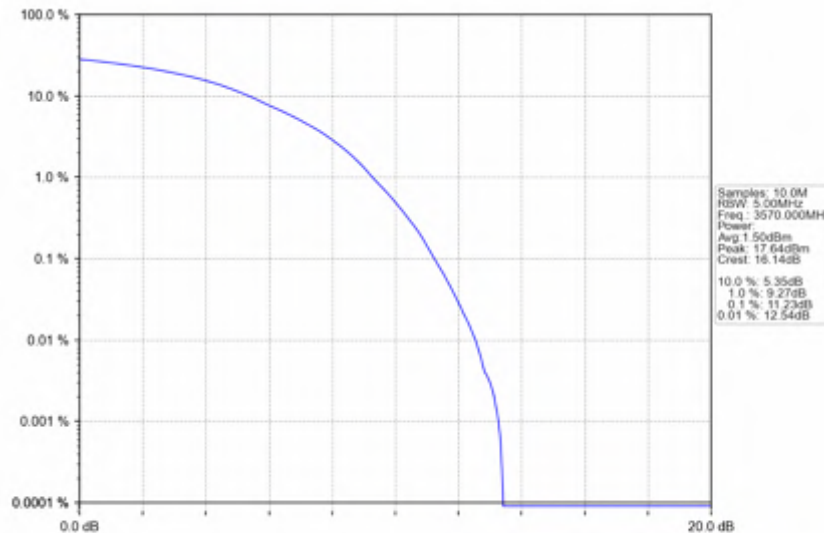
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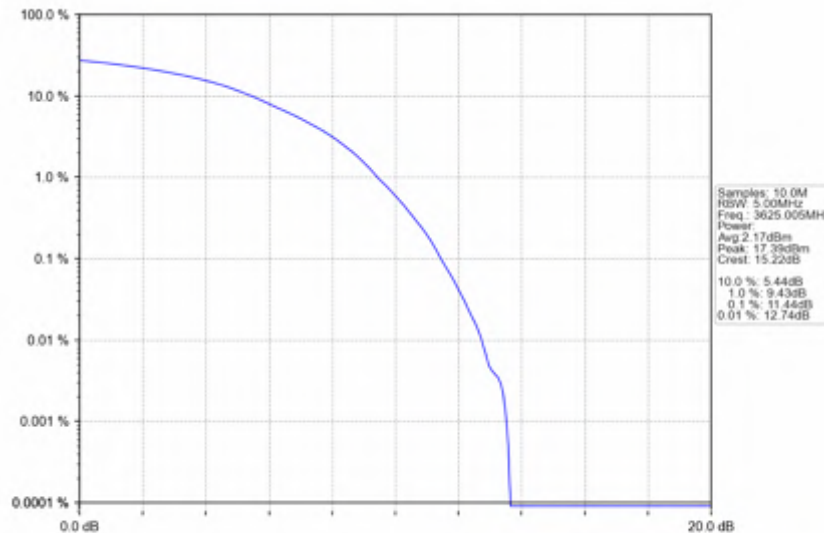
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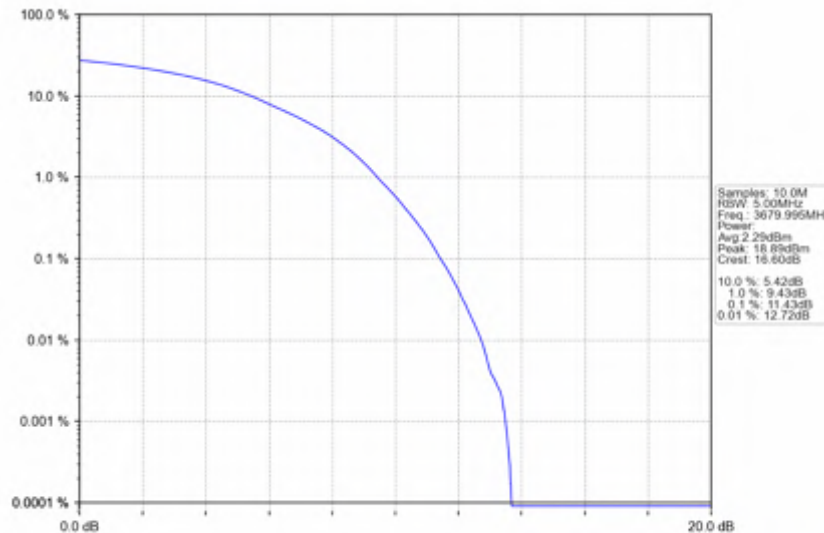
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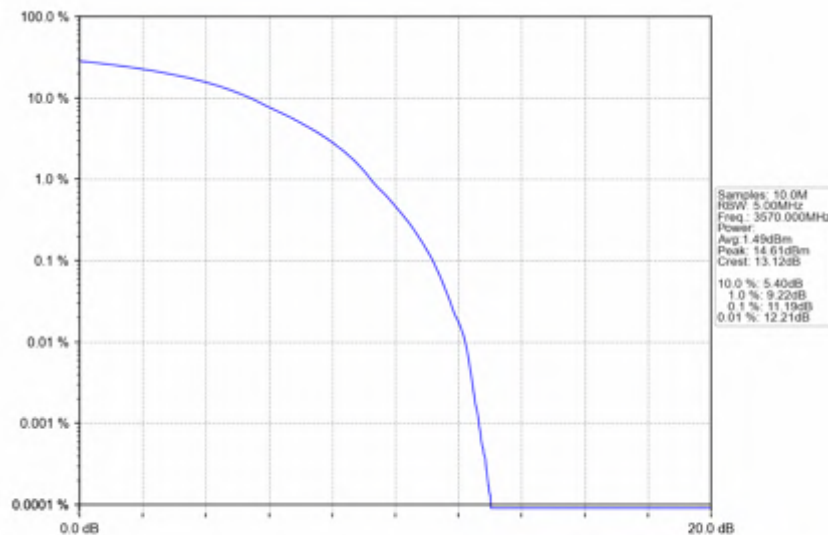
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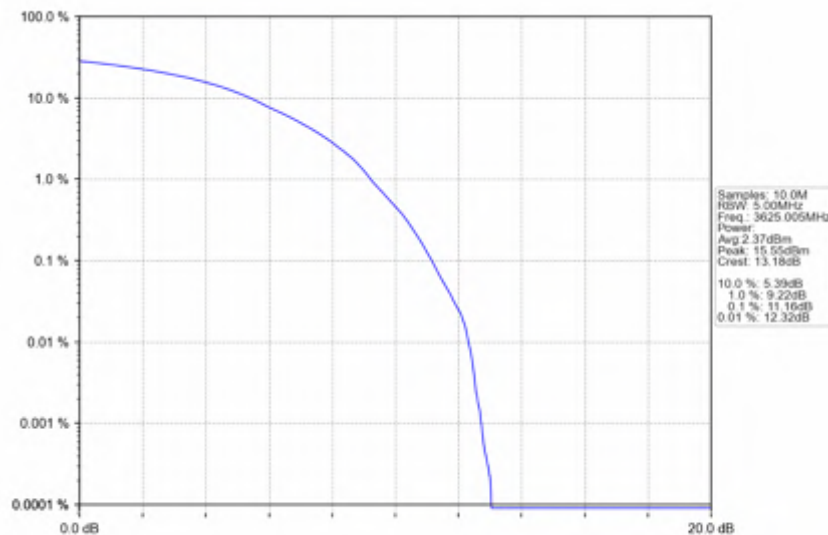
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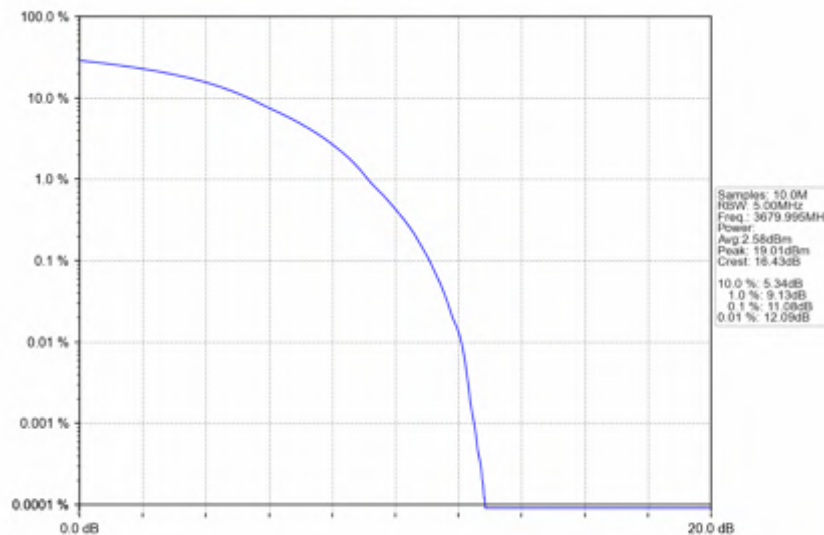
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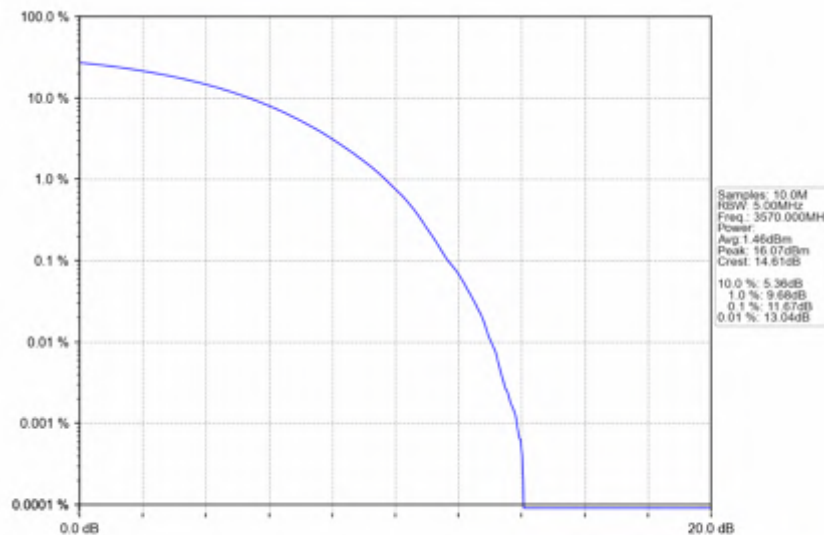
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n78d_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM_3679.995MHz_Outer_Full



n78d_15kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Outer_Full

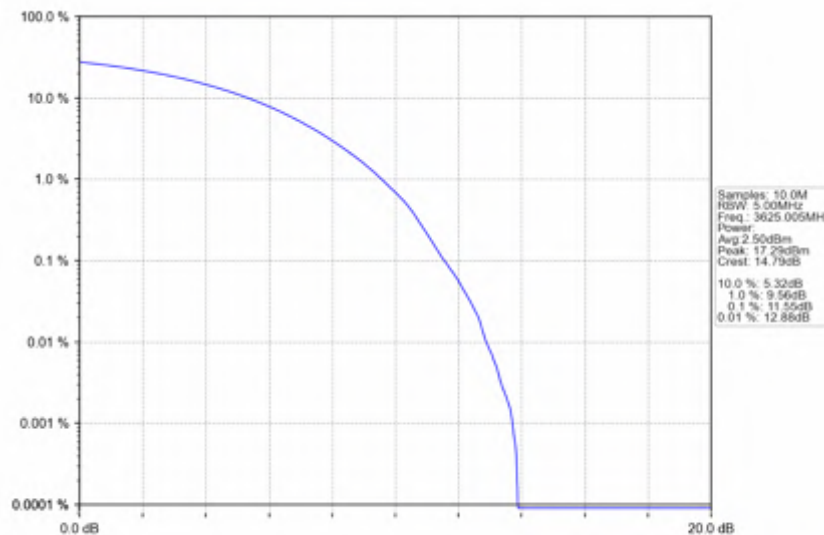


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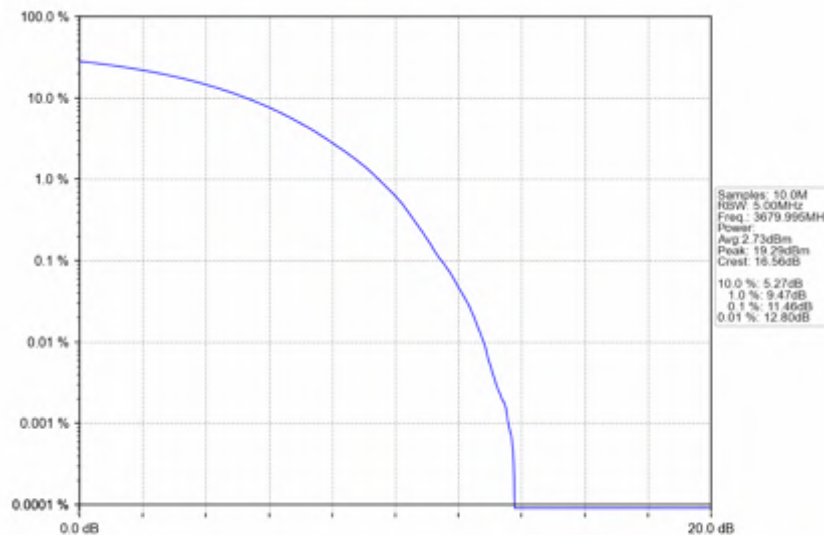
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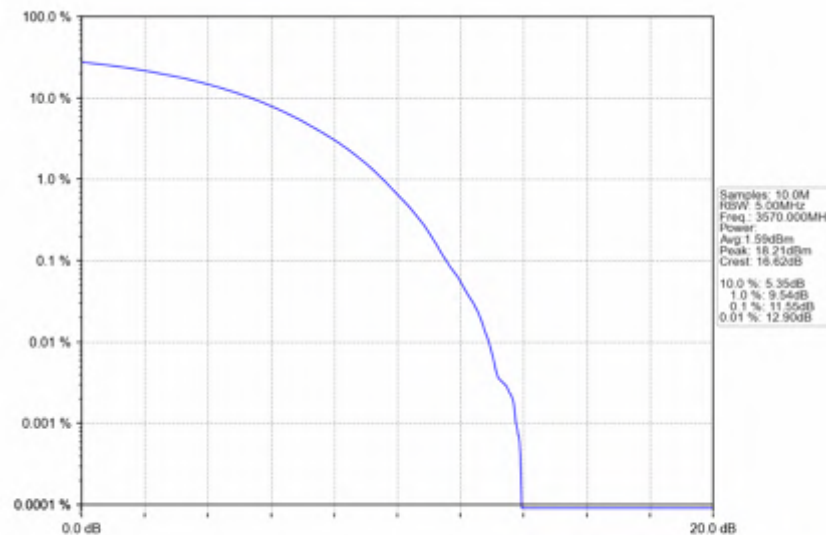
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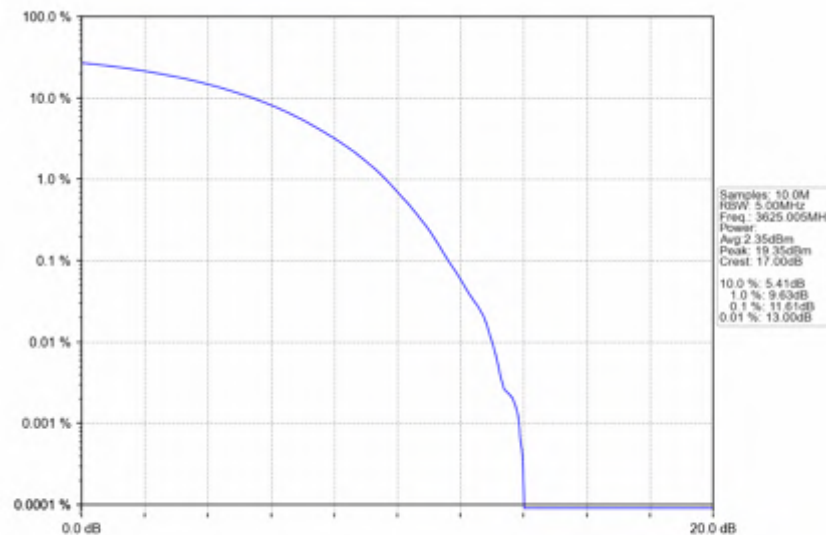
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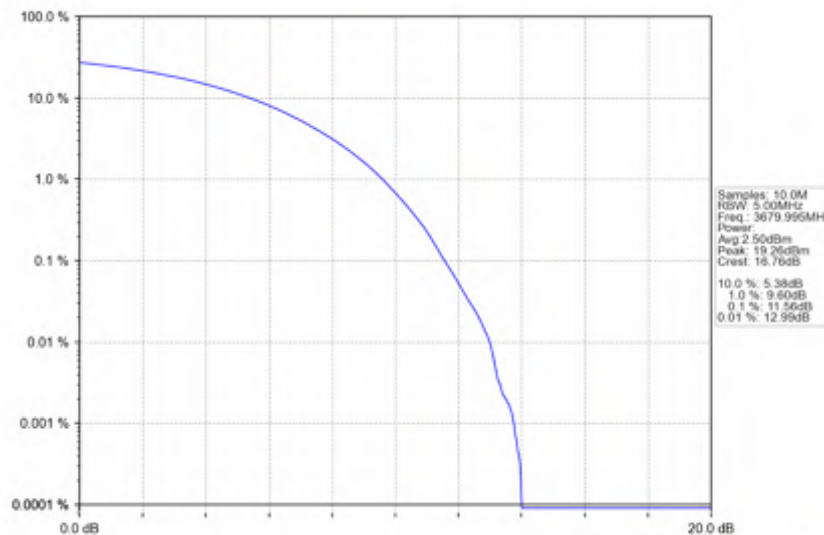
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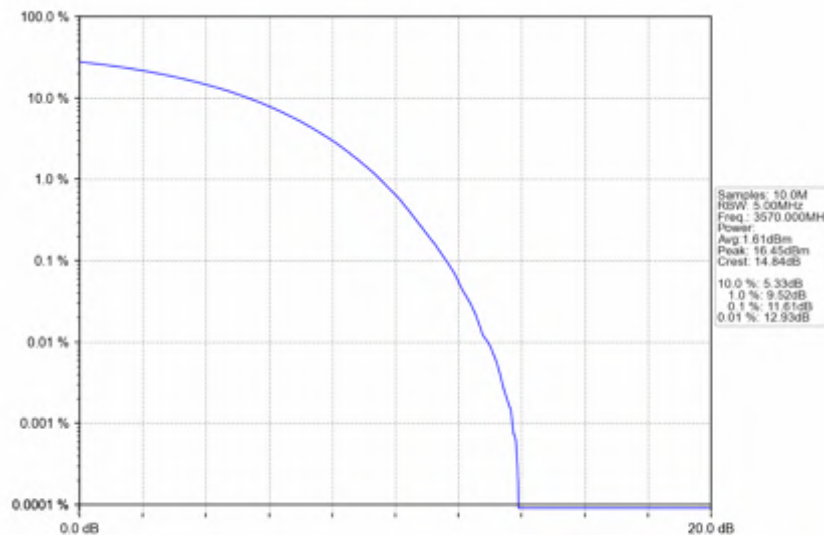
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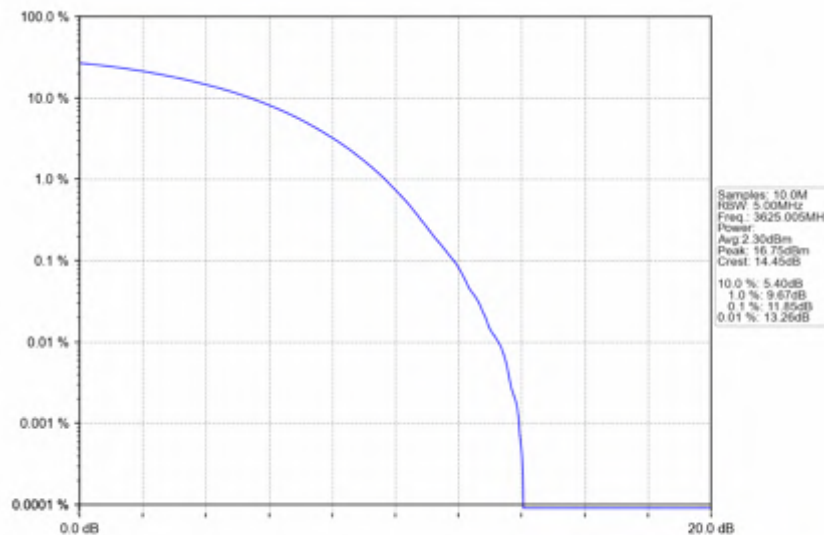


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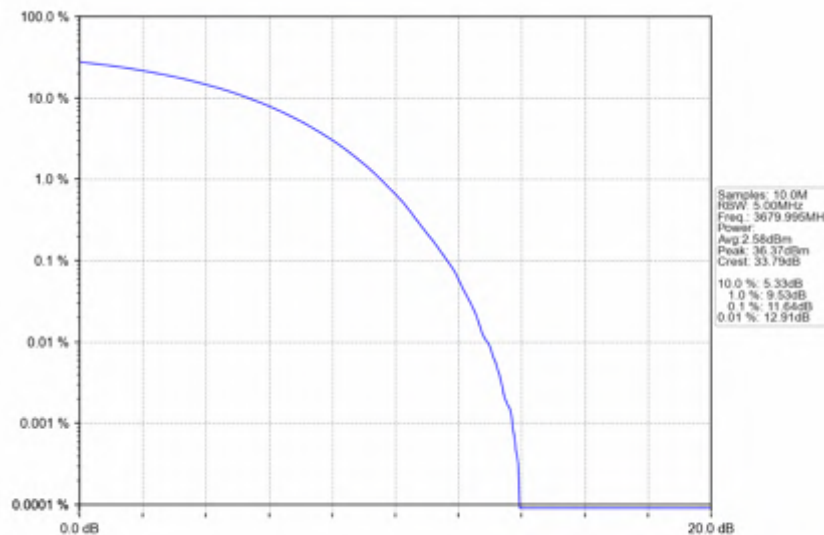
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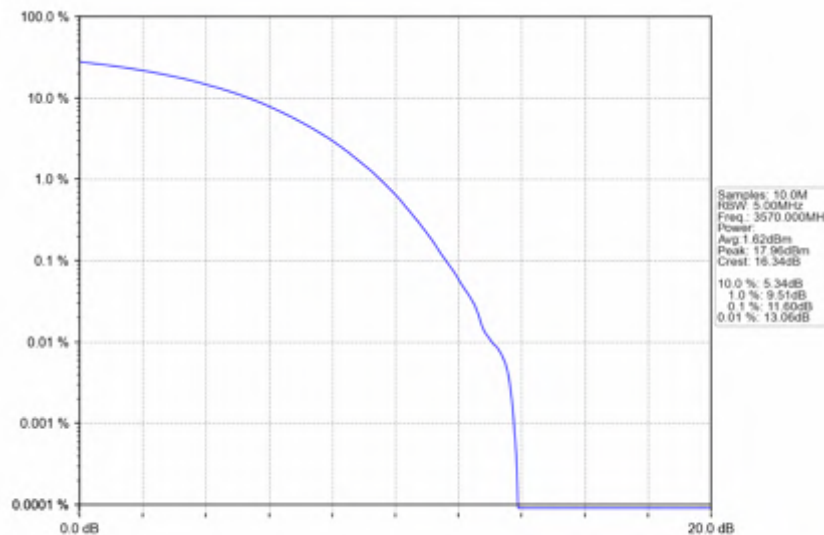


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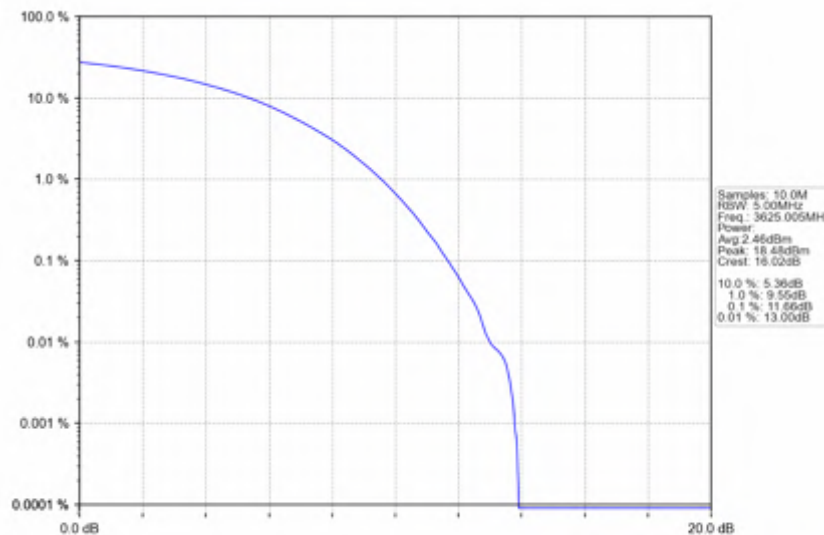
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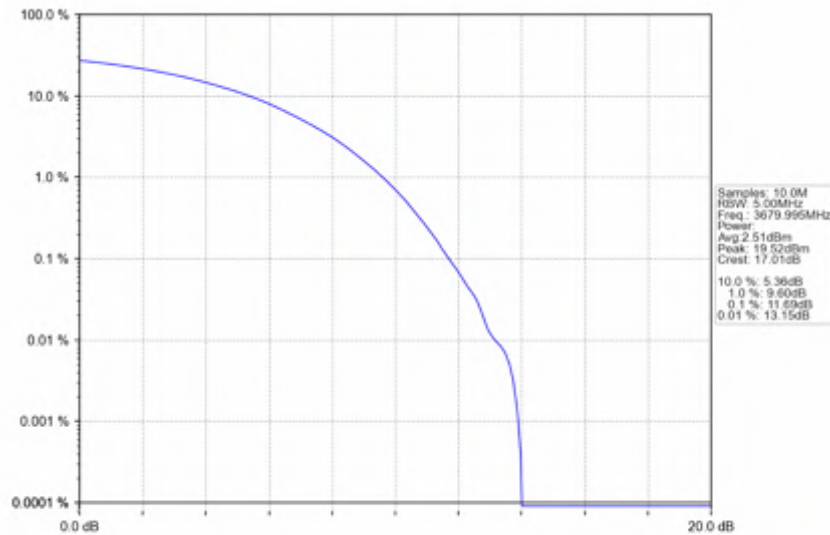
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8.7 15k_SISO_50MHz_NTNV

8.7.1 Test Result

5G NR n78d 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	3575.01	Outer_Full	10.73	/	/	<=13	Pass
	3625.005	Outer_Full	10.62	/	/	<=13	Pass
	3675	Outer_Full	10.80	/	/	<=13	Pass
DFT-s-OFDM QPSK	3575.01	Outer_Full	11.09	/	/	<=13	Pass
	3625.005	Outer_Full	11.34	/	/	<=13	Pass
	3675	Outer_Full	11.18	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3575.01	Outer_Full	11.07	/	/	<=13	Pass
	3625.005	Outer_Full	11.34	/	/	<=13	Pass
	3675	Outer_Full	11.17	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3575.01	Outer_Full	11.62	/	/	<=13	Pass
	3625.005	Outer_Full	11.18	/	/	<=13	Pass
	3675	Outer_Full	11.27	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3575.01	Outer_Full	11.29	/	/	<=13	Pass
	3625.005	Outer_Full	11.56	/	/	<=13	Pass
	3675	Outer_Full	11.07	/	/	<=13	Pass
CP-OFDM QPSK	3575.01	Outer_Full	11.60	/	/	<=13	Pass
	3625.005	Outer_Full	11.58	/	/	<=13	Pass
	3675	Outer_Full	11.50	/	/	<=13	Pass
CP-OFDM 16 QAM	3575.01	Outer_Full	11.76	/	/	<=13	Pass
	3625.005	Outer_Full	11.83	/	/	<=13	Pass
	3675	Outer_Full	11.87	/	/	<=13	Pass
CP-OFDM 64 QAM	3575.01	Outer_Full	11.37	/	/	<=13	Pass
	3625.005	Outer_Full	11.70	/	/	<=13	Pass
	3675	Outer_Full	11.82	/	/	<=13	Pass
CP-OFDM 256 QAM	3575.01	Outer_Full	11.73	/	/	<=13	Pass
	3625.005	Outer_Full	11.62	/	/	<=13	Pass
	3675	Outer_Full	11.89	/	/	<=13	Pass



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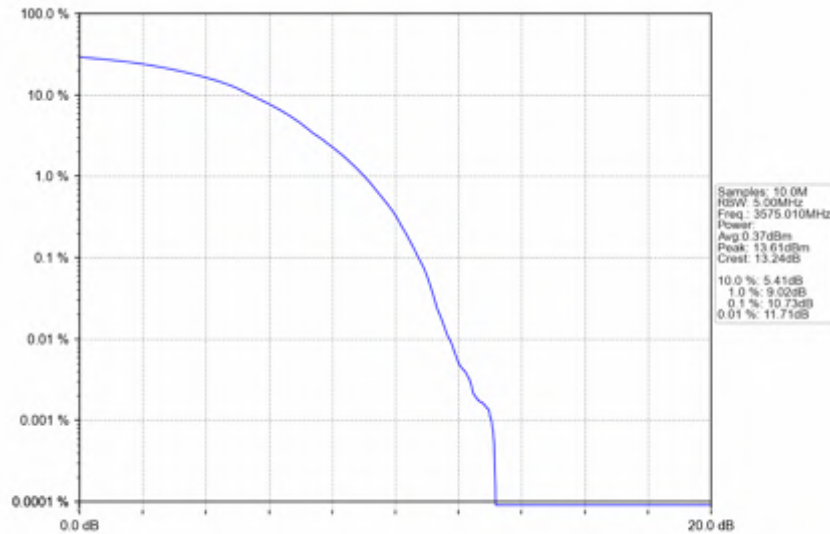
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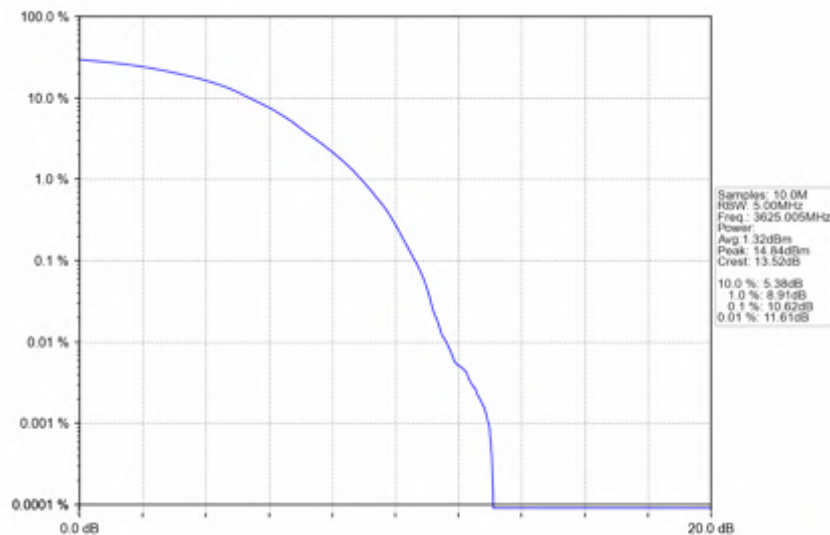
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8.7.2 Test Graph

n78d	15kHz	SISO	NTNV	50MHz	DFT-s-OFDM	PI/2 BPSK	3575.01MHz	Outer	Full
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n78d_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_PI/2_BPSK_3625.005MHz_Outer_Full

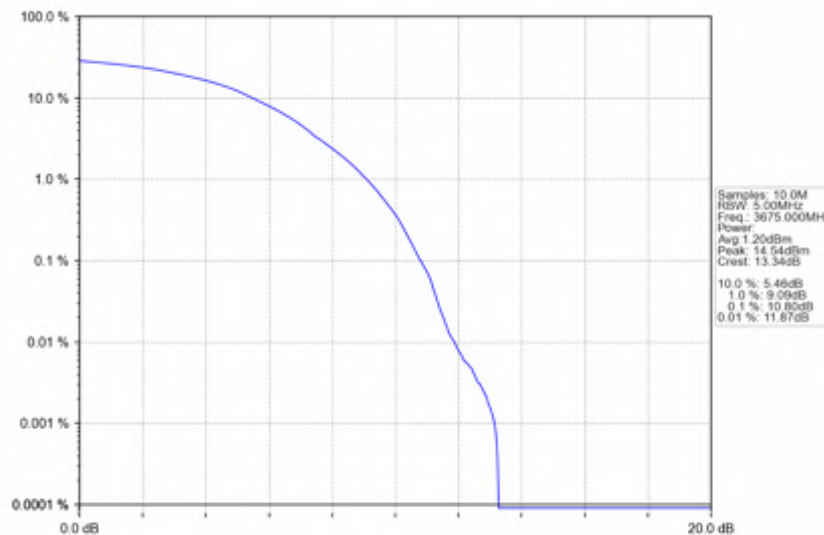


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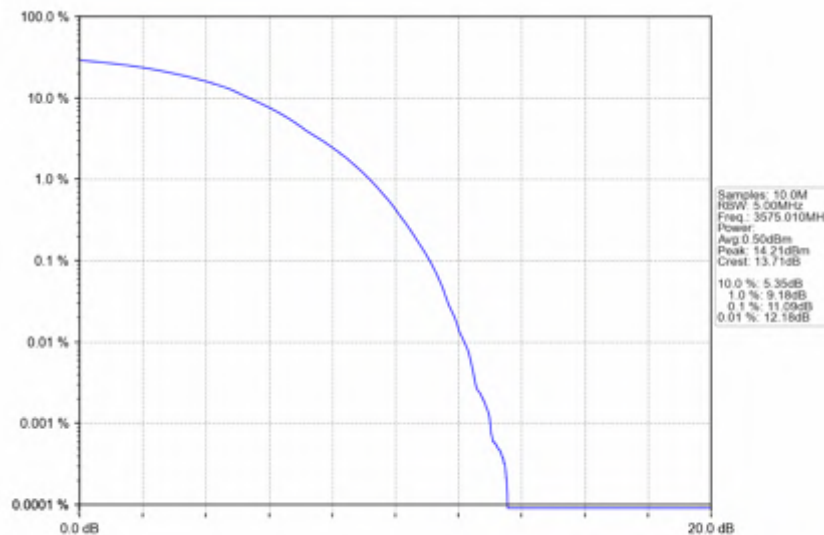
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n78d_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM PI/2 BPSK_3675MHz_Outer_Full



n78d_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM QPSK_3575.01MHz_Outer_Full



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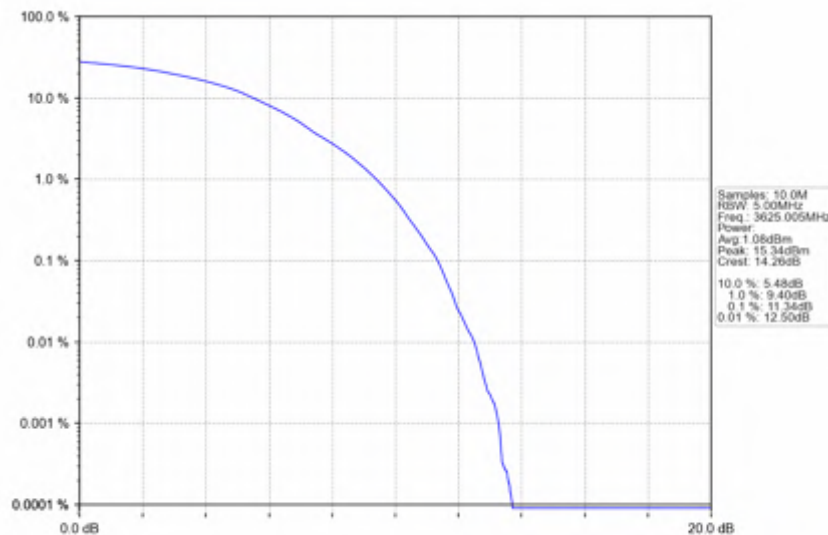
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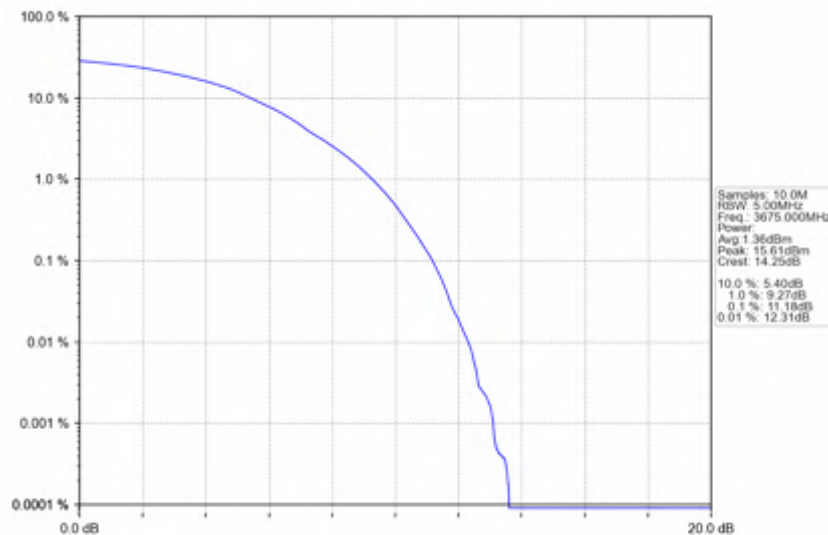
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n78d_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM QPSK_3625.005MHz_Outer_Full



n78d_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM QPSK_3675MHz_Outer_Full



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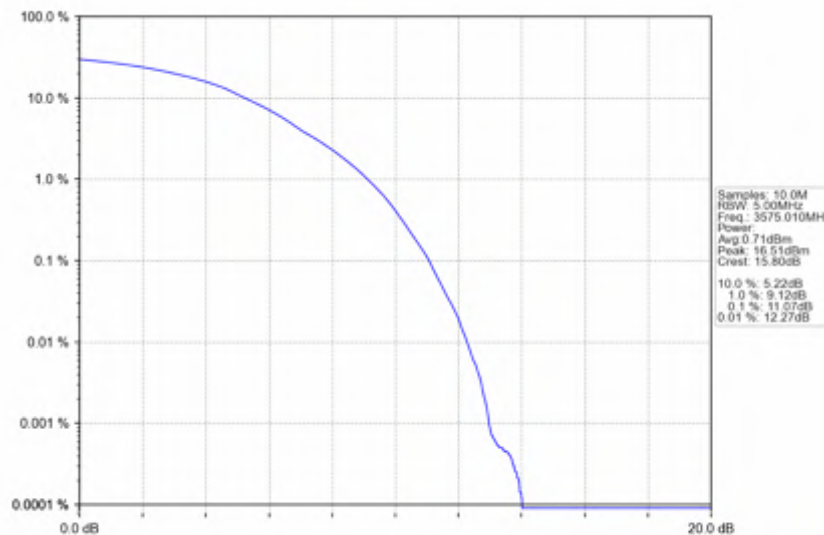
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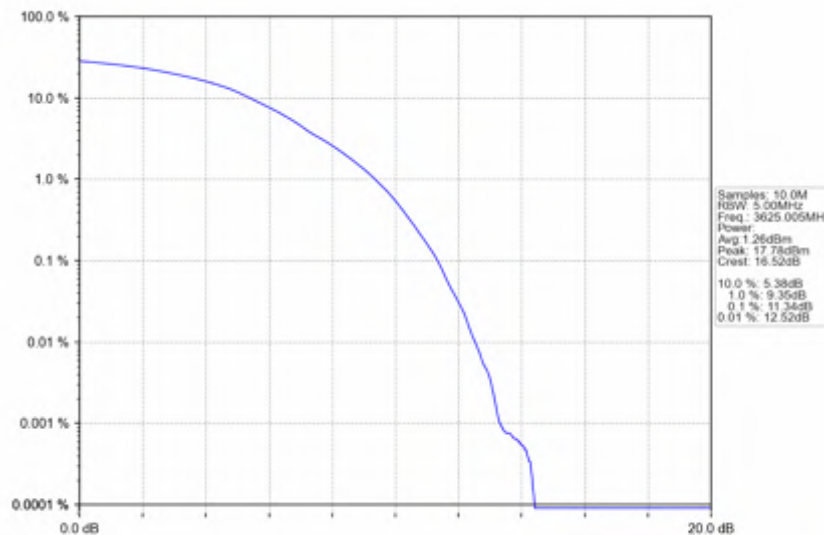
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n78d_15kHz_SISO_NTV_50MHz_DFT-s-OFDM_16_QAM_3575.01MHz_Outer_Full



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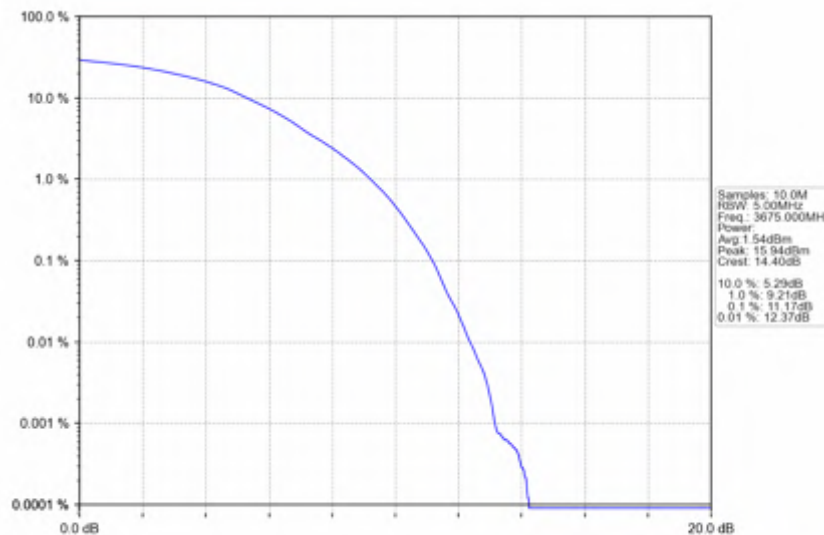
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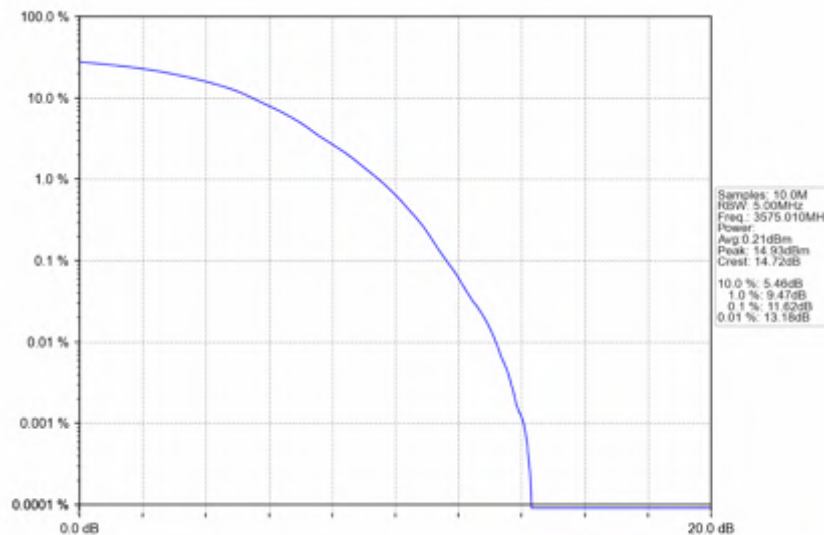
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n78d_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM 16 QAM 3675MHz_Outer_Full



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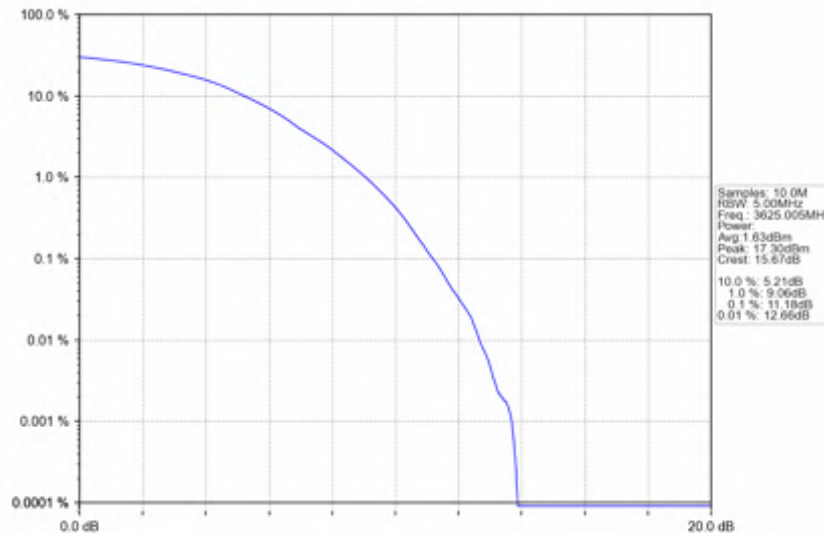
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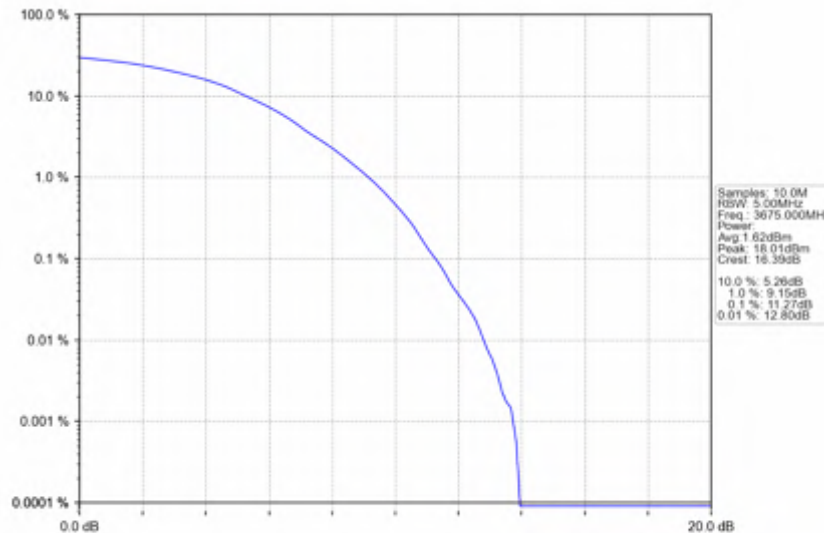
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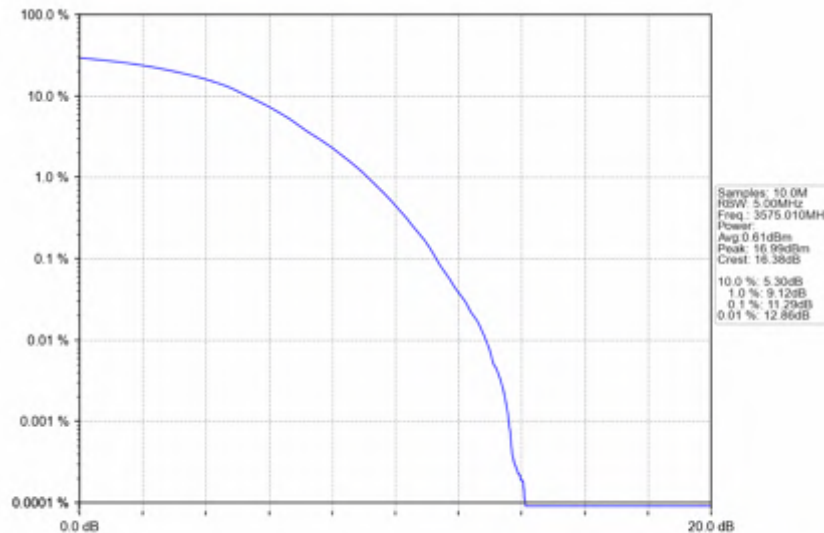
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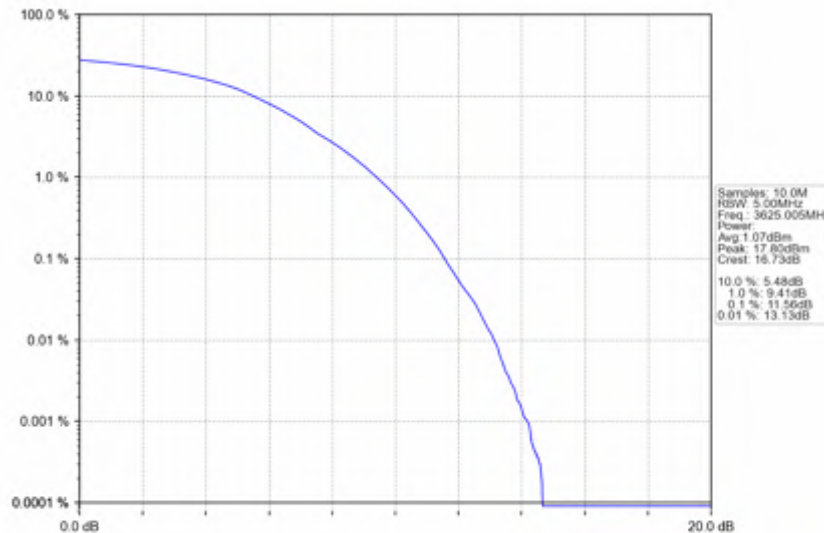
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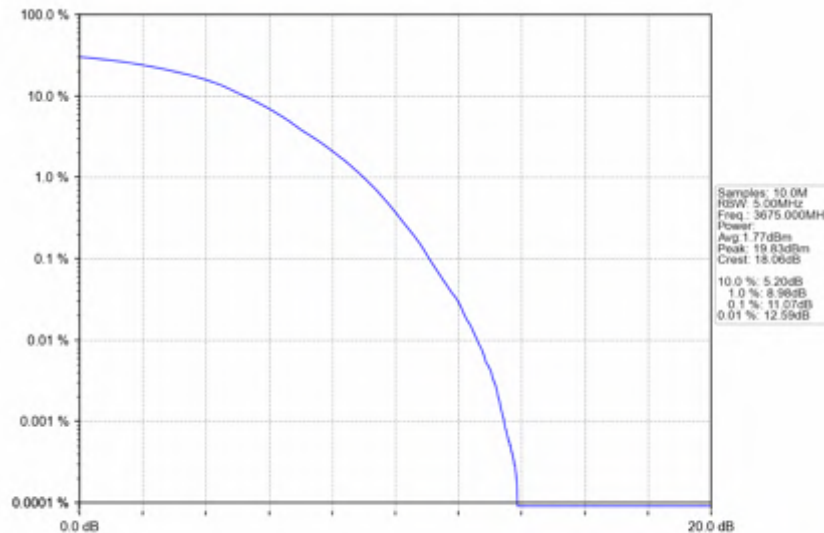
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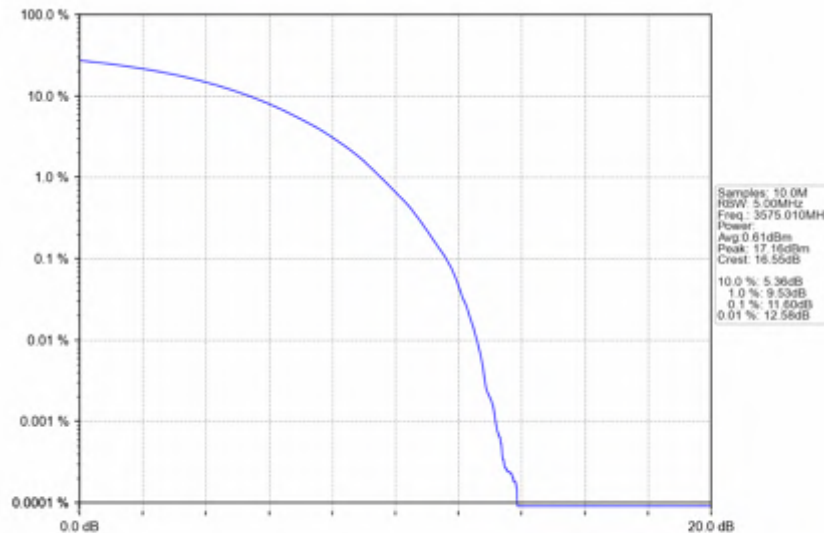
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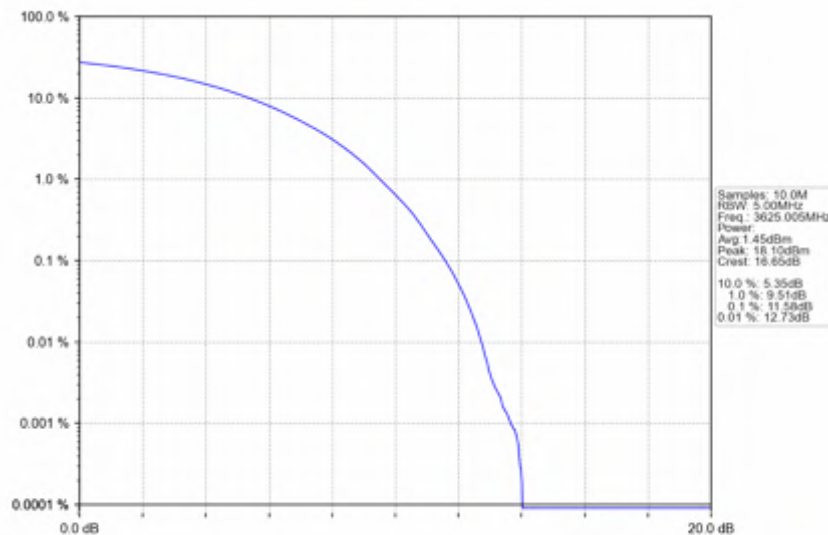
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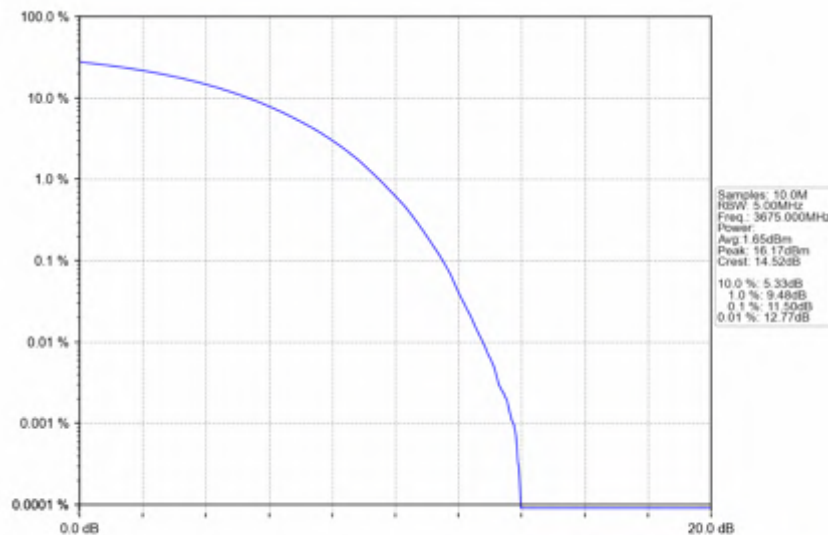
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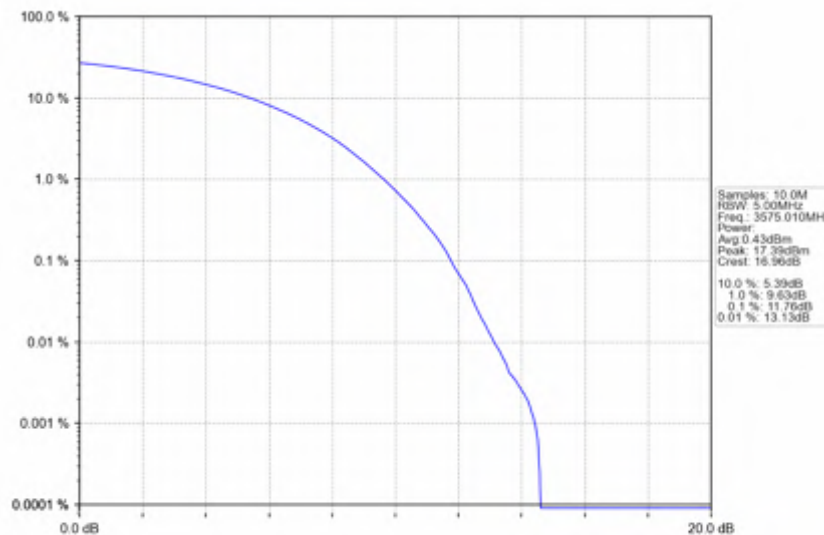
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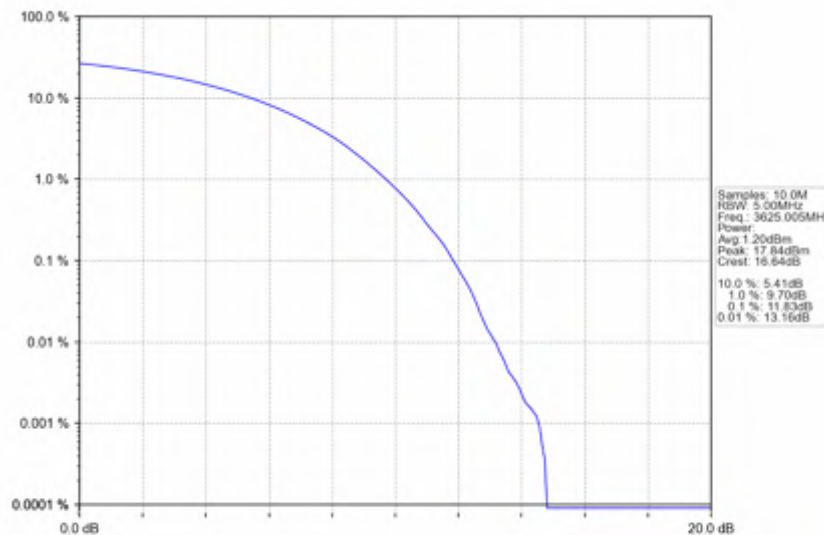
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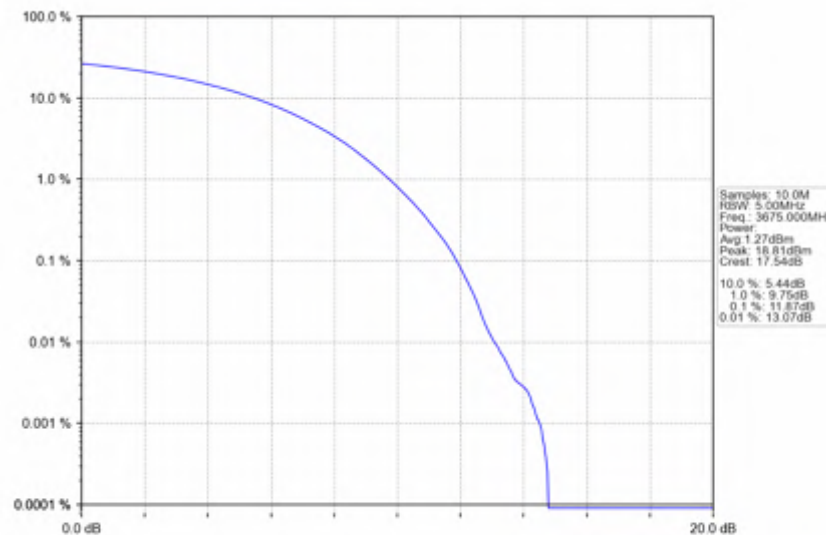


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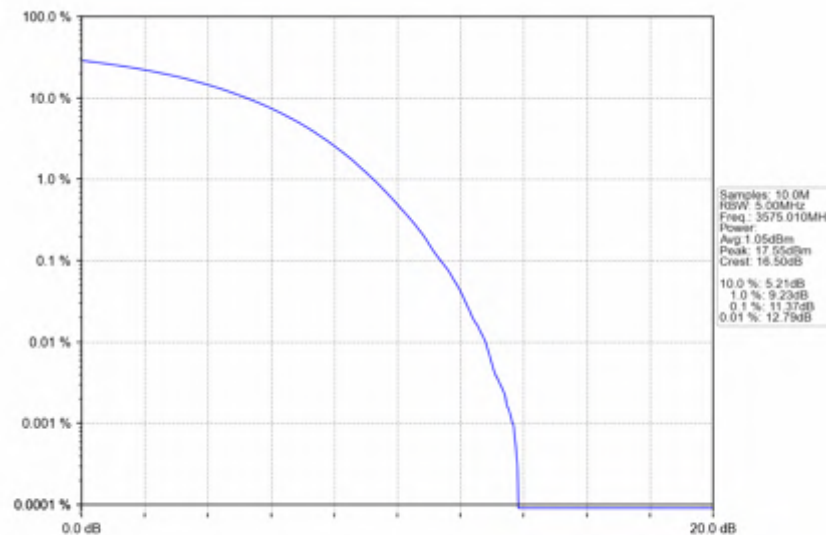
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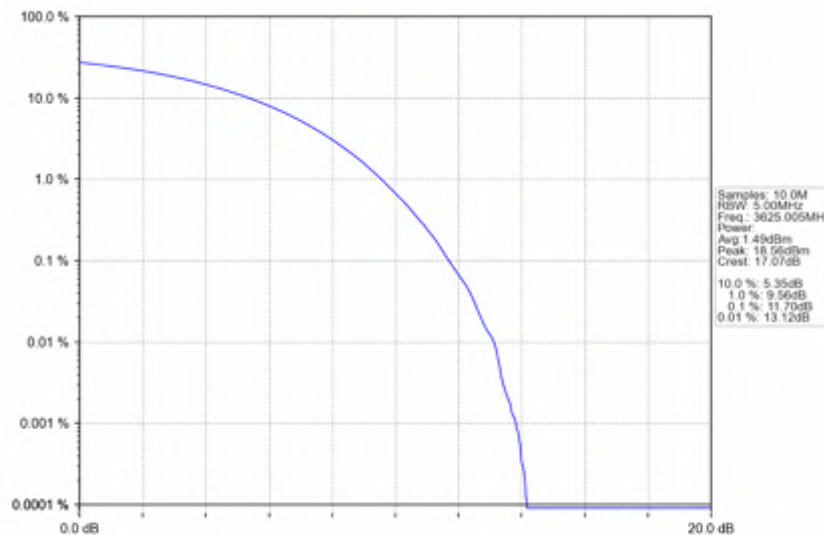
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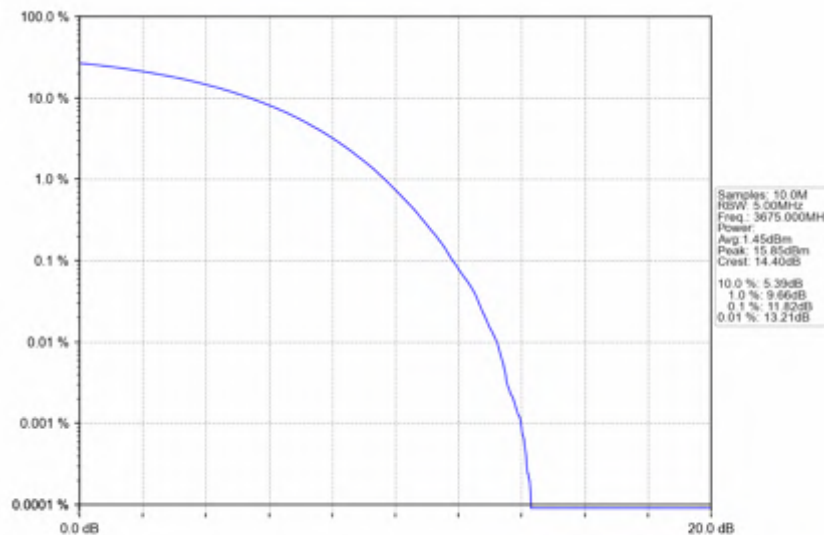
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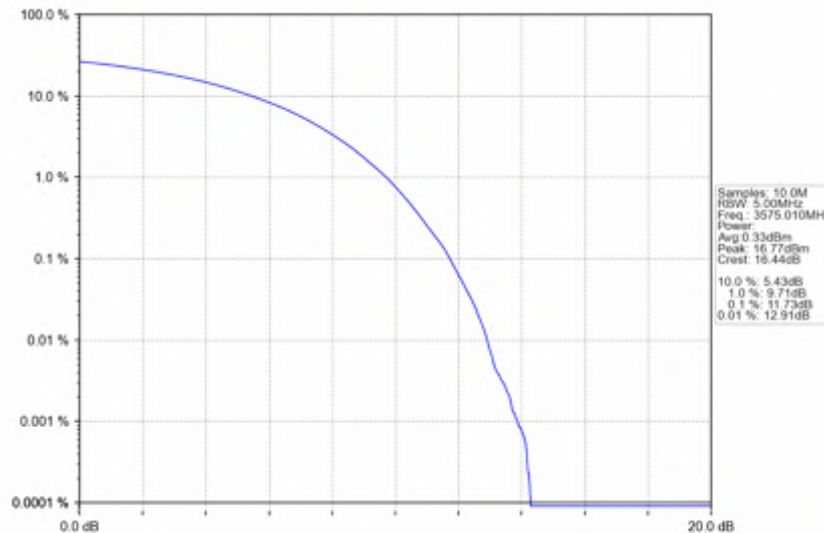


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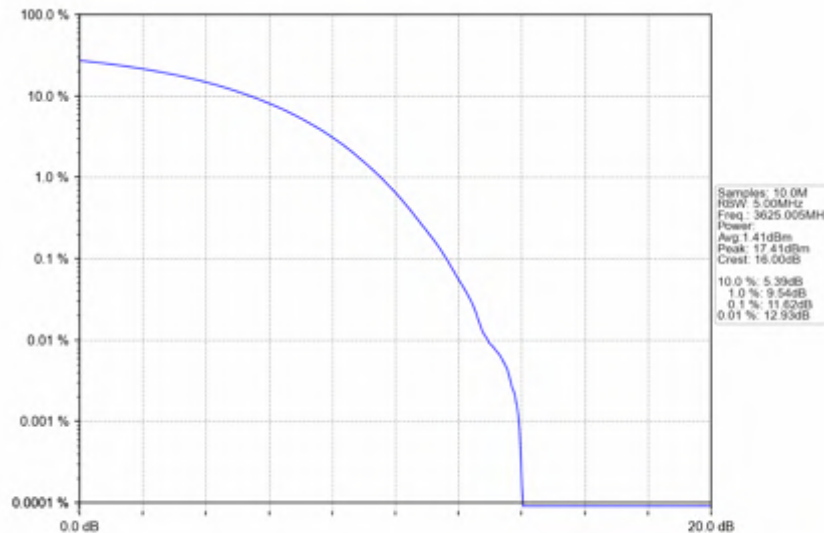
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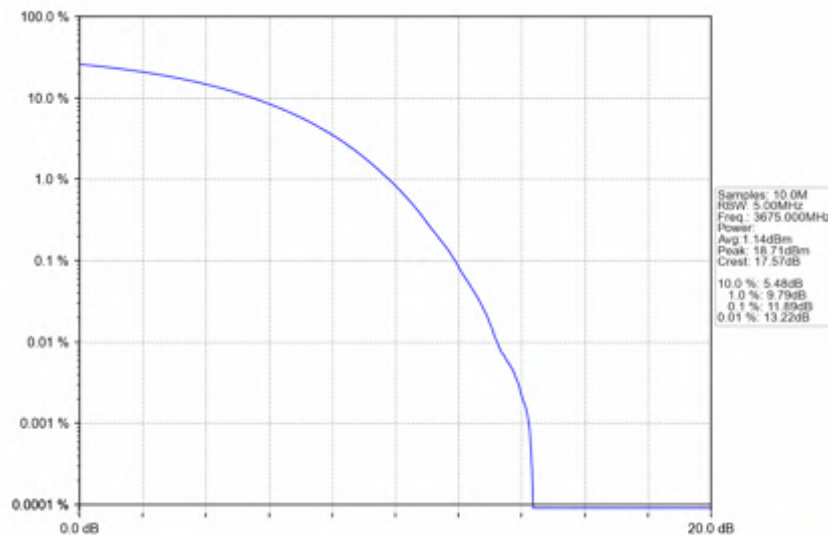
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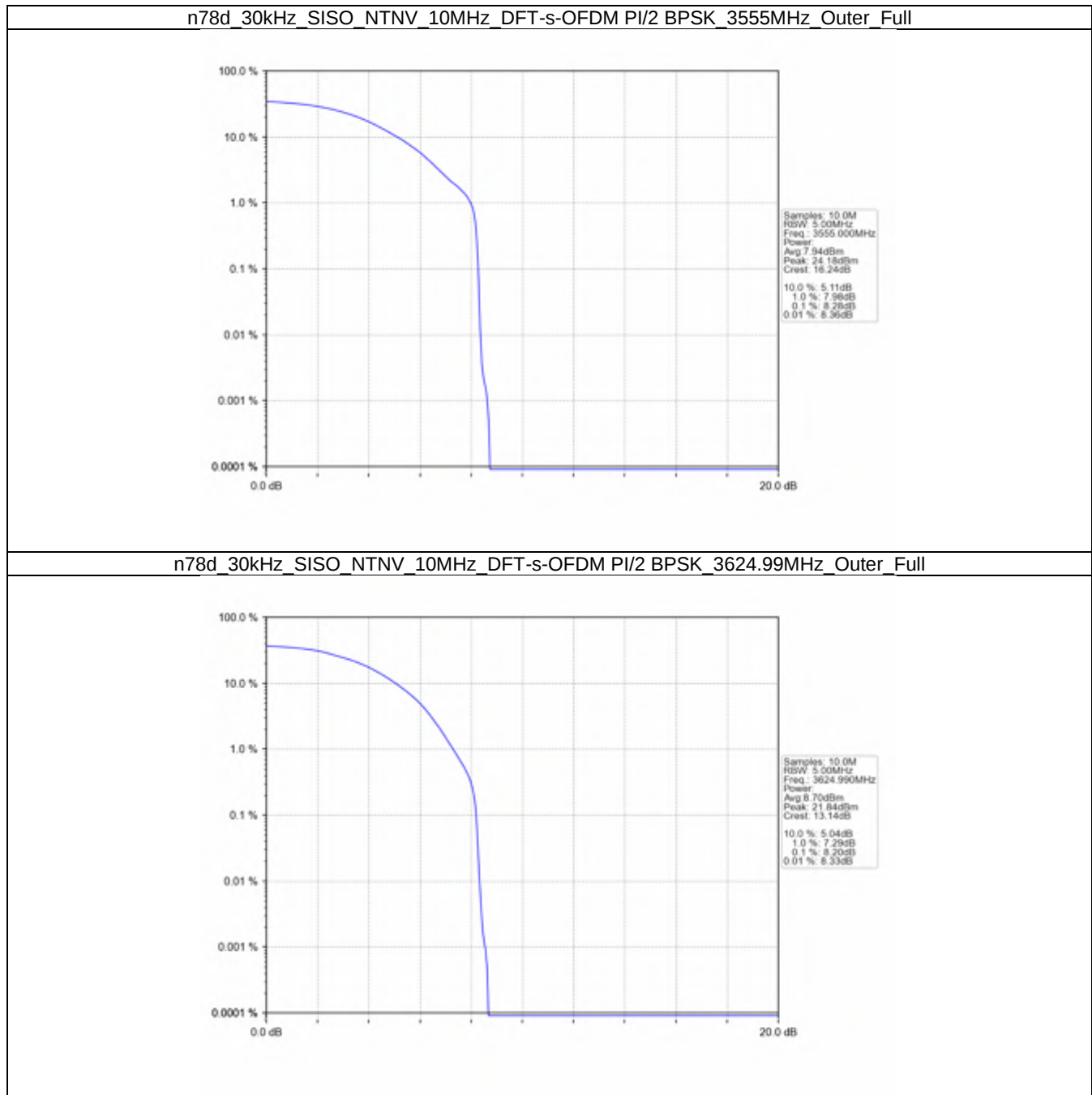
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8.8 30k_SISO_10MHz_NTNV

8.8.1 Test Result

5G NR n78d 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	3555	Outer_Full	8.28	/	/	<=13	Pass
	3624.99	Outer_Full	8.20	/	/	<=13	Pass
	3694.98	Outer_Full	8.31	/	/	<=13	Pass
DFT-s-OFDM QPSK	3555	Outer_Full	8.98	/	/	<=13	Pass
	3624.99	Outer_Full	8.61	/	/	<=13	Pass
	3694.98	Outer_Full	8.83	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3555	Outer_Full	10.01	/	/	<=13	Pass
	3624.99	Outer_Full	10.06	/	/	<=13	Pass
	3694.98	Outer_Full	10.05	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3555	Outer_Full	10.09	/	/	<=13	Pass
	3624.99	Outer_Full	10.03	/	/	<=13	Pass
	3694.98	Outer_Full	10.00	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3555	Outer_Full	10.14	/	/	<=13	Pass
	3624.99	Outer_Full	10.16	/	/	<=13	Pass
	3694.98	Outer_Full	10.14	/	/	<=13	Pass
CP-OFDM QPSK	3555	Outer_Full	11.72	/	/	<=13	Pass
	3624.99	Outer_Full	11.62	/	/	<=13	Pass
	3694.98	Outer_Full	11.96	/	/	<=13	Pass
CP-OFDM 16 QAM	3555	Outer_Full	11.87	/	/	<=13	Pass
	3624.99	Outer_Full	11.88	/	/	<=13	Pass
	3694.98	Outer_Full	11.84	/	/	<=13	Pass
CP-OFDM 64 QAM	3555	Outer_Full	11.51	/	/	<=13	Pass
	3624.99	Outer_Full	11.47	/	/	<=13	Pass
	3694.98	Outer_Full	11.46	/	/	<=13	Pass
CP-OFDM 256 QAM	3555	Outer_Full	11.70	/	/	<=13	Pass
	3624.99	Outer_Full	11.72	/	/	<=13	Pass
	3694.98	Outer_Full	11.86	/	/	<=13	Pass

8.8.2 Test Graph

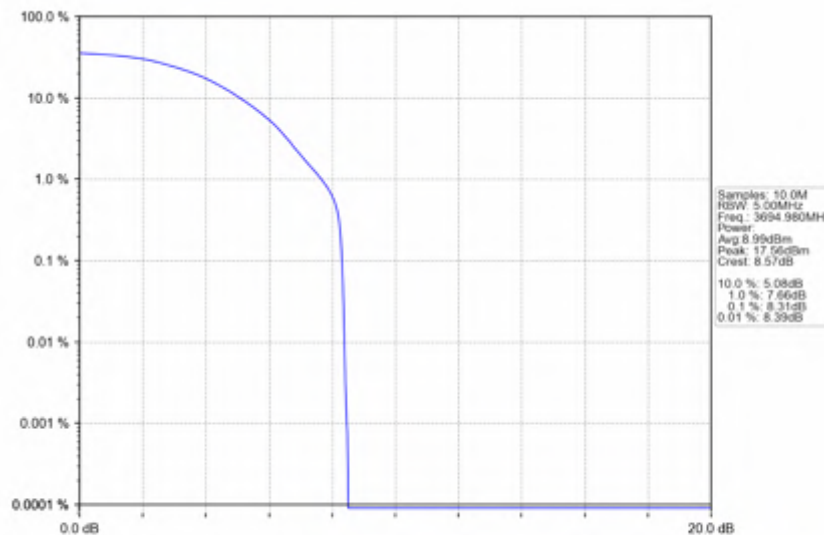


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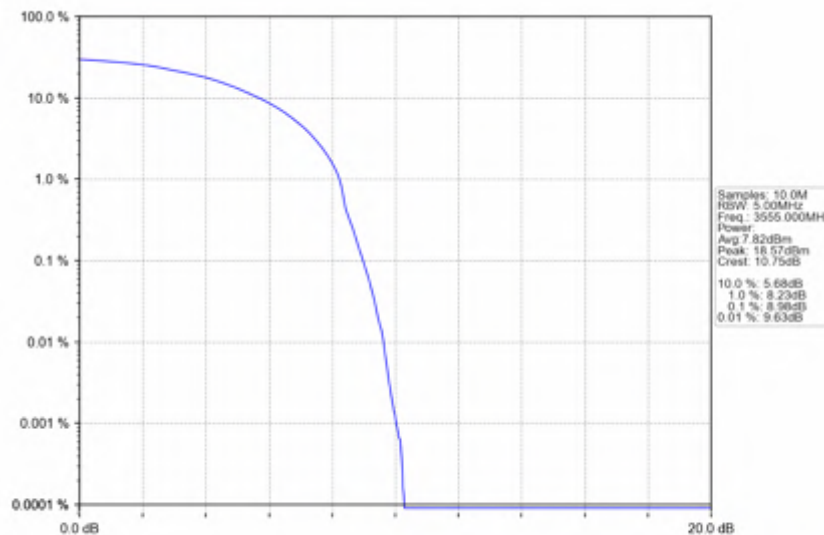
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n78d_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3555MHz_Outer_Full



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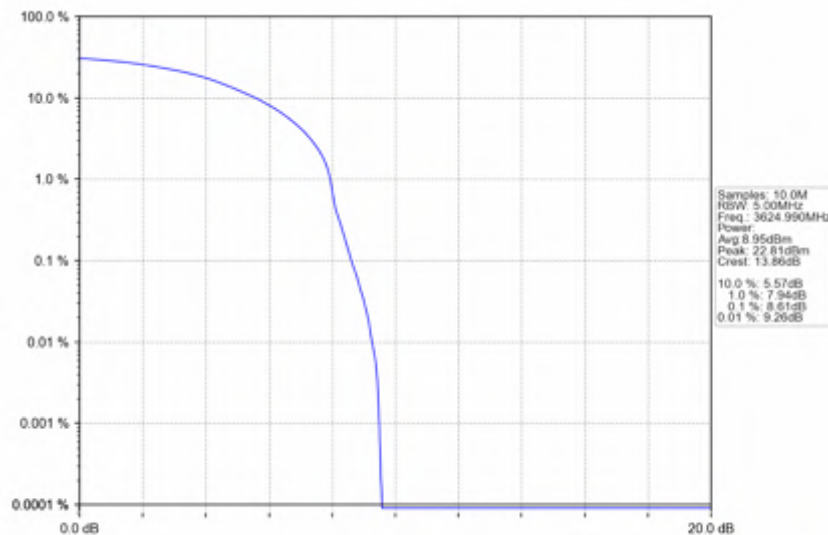
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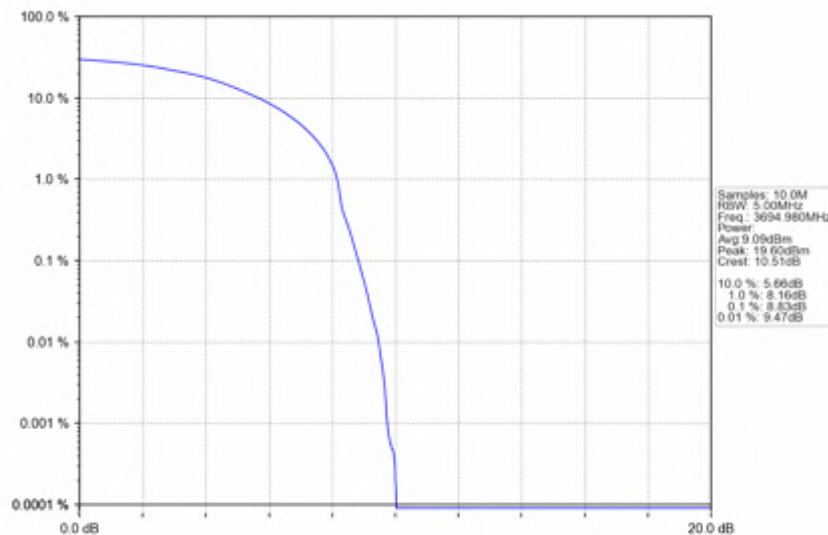
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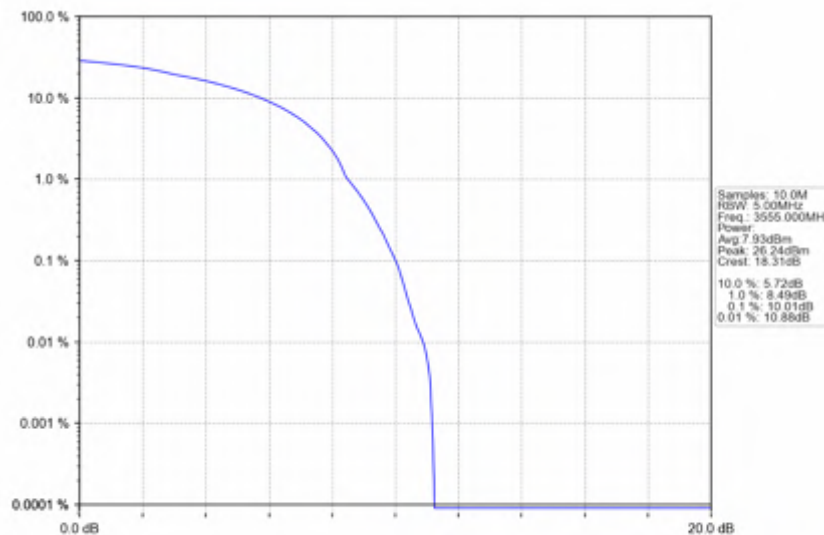
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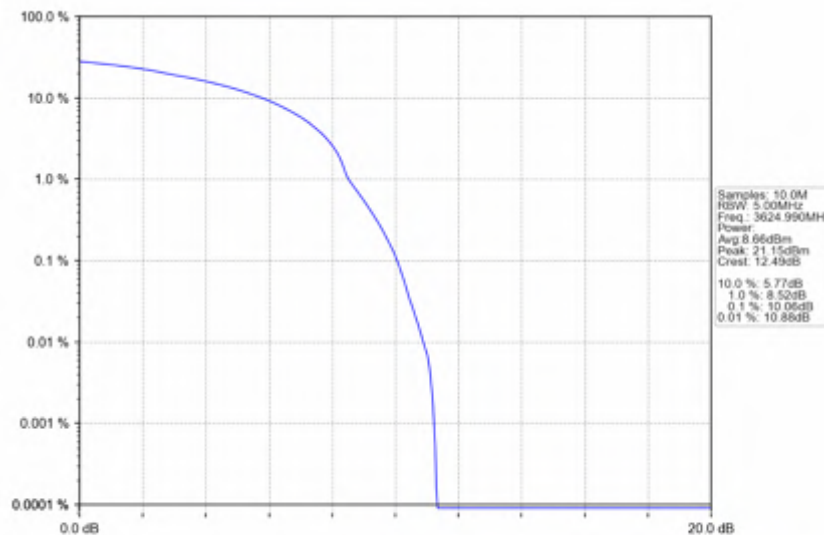
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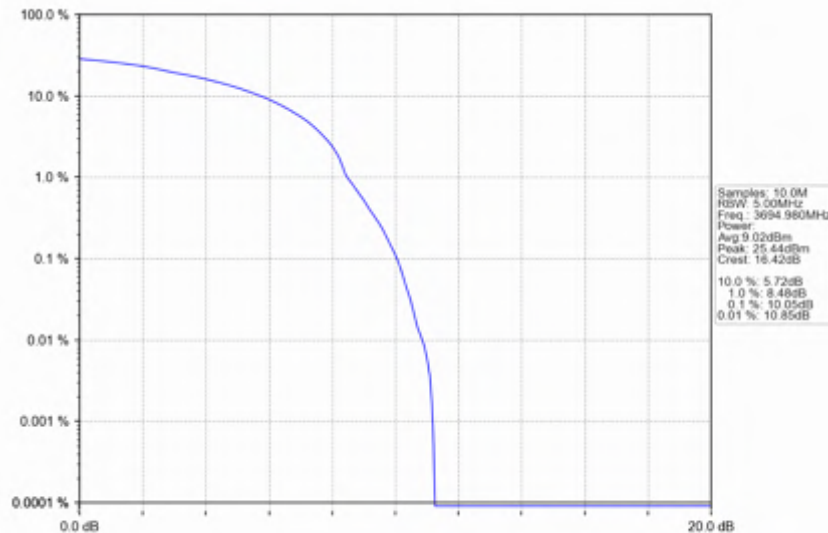
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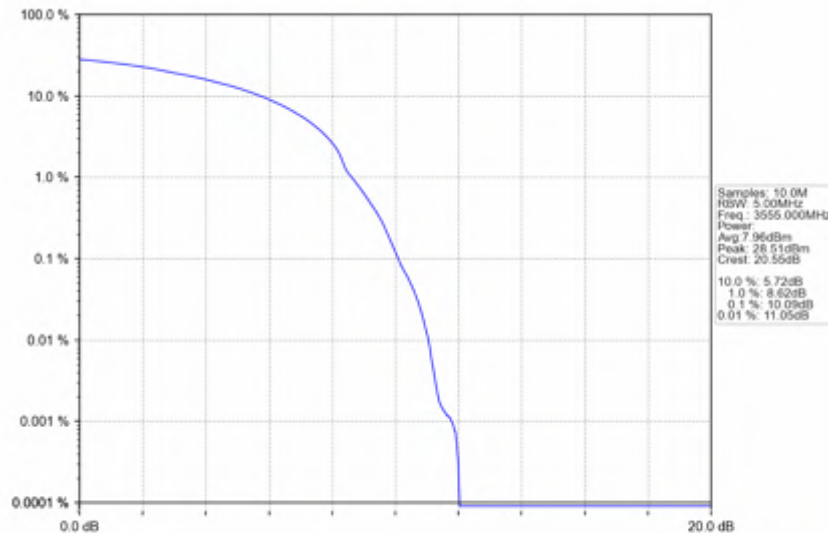
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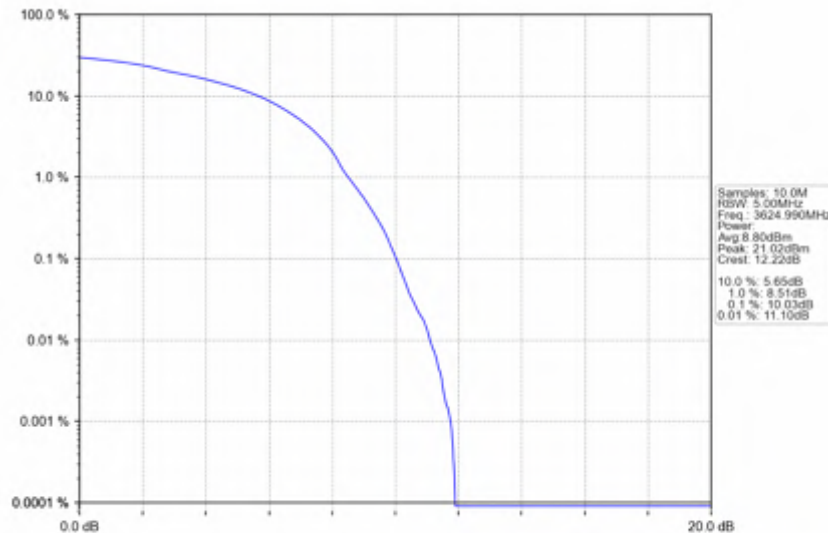


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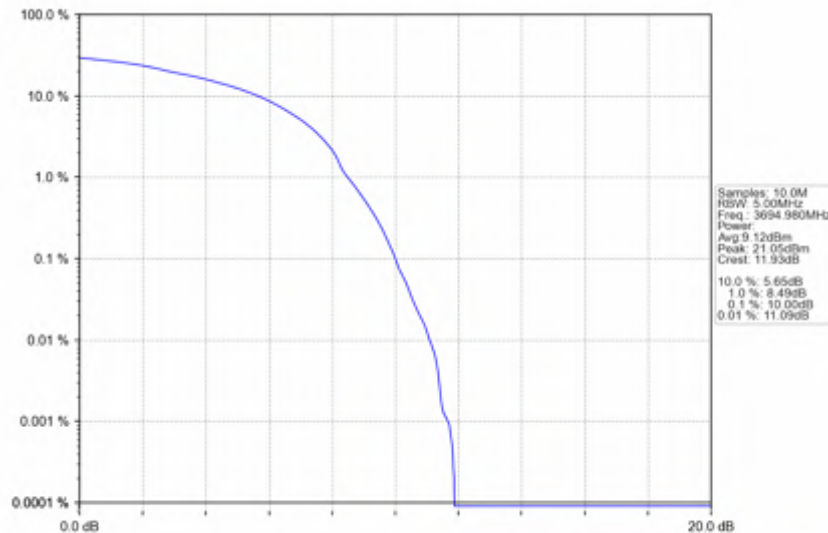
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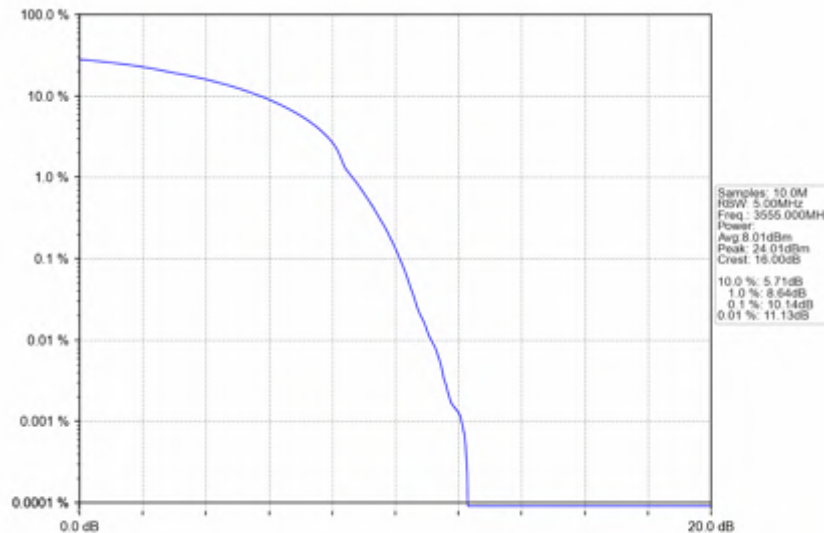
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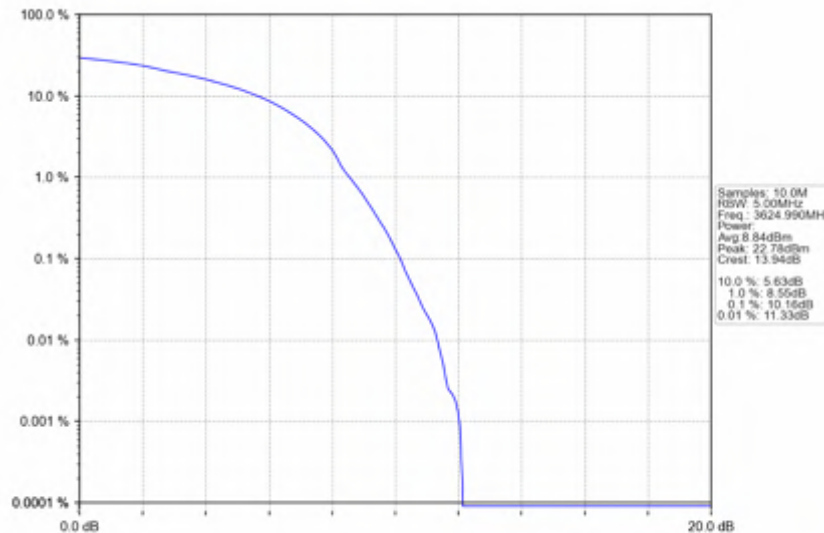
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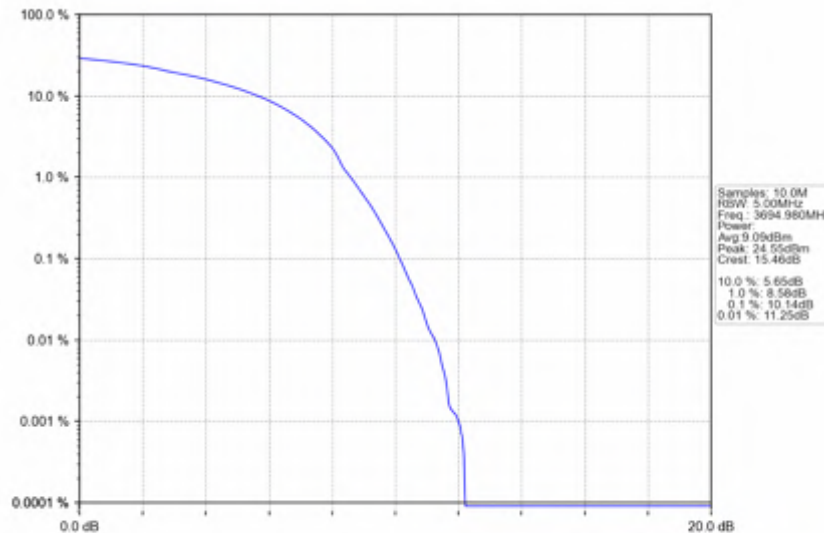
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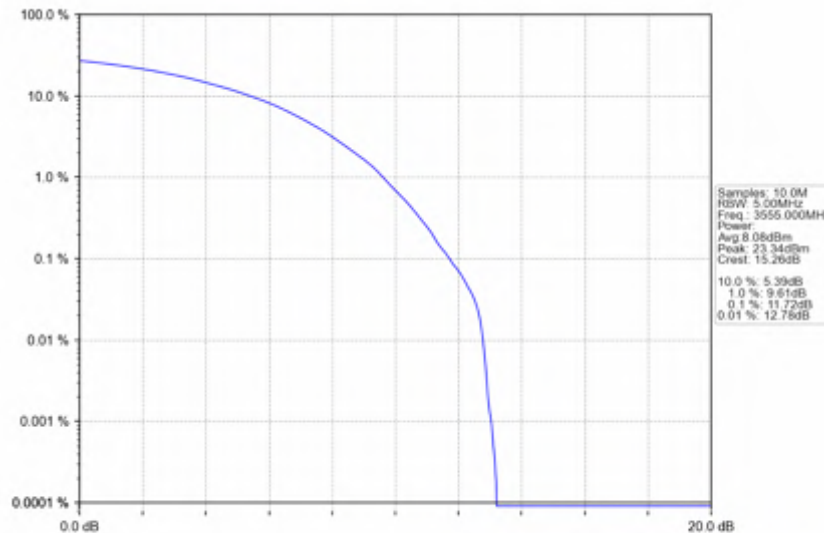
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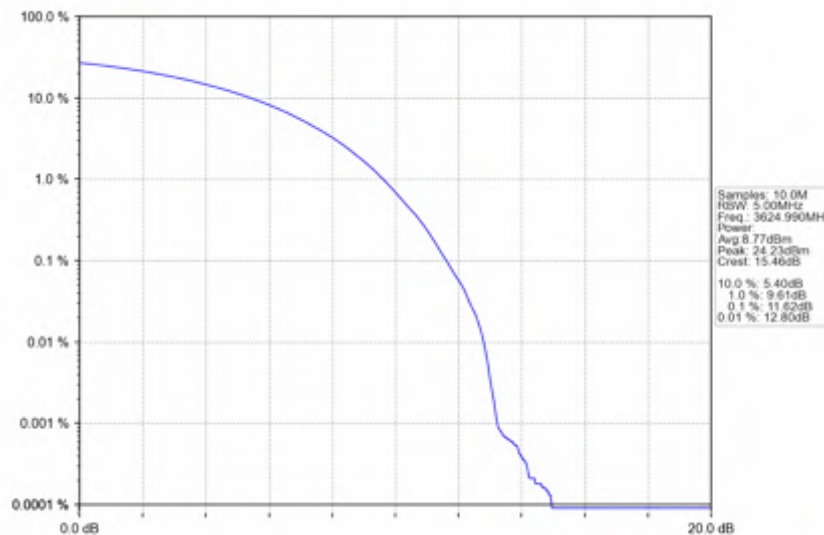
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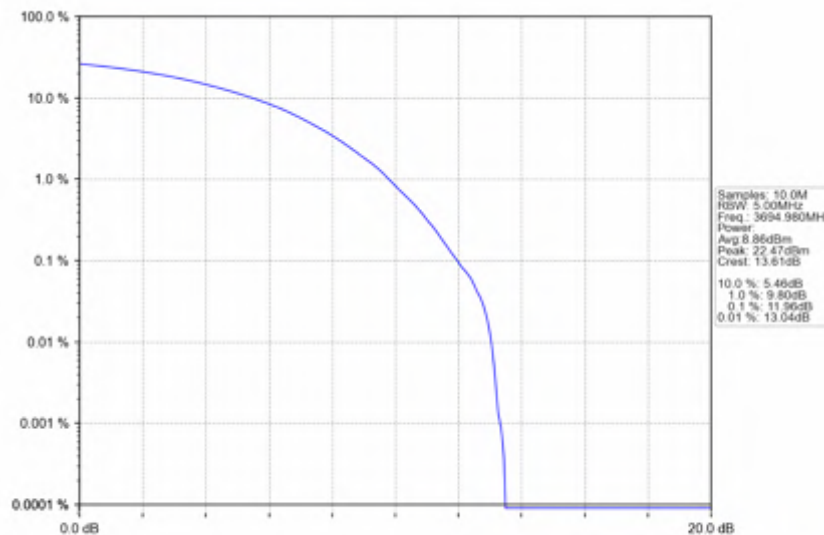
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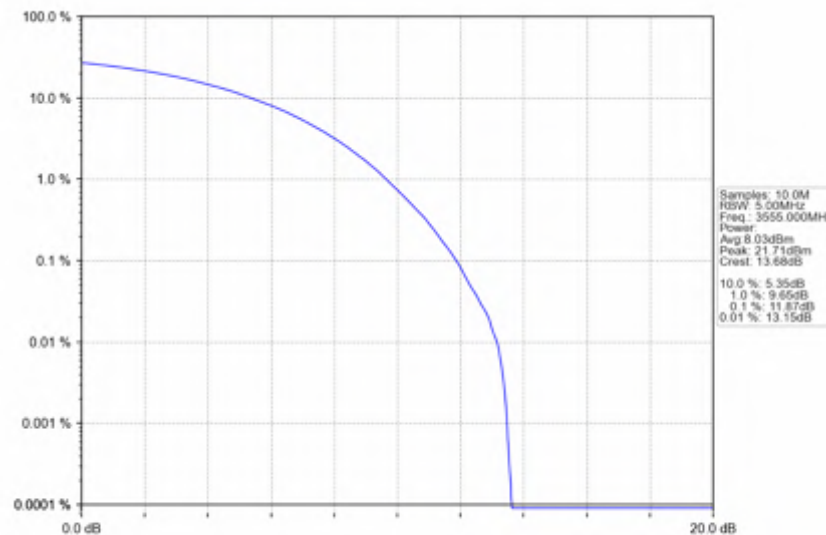
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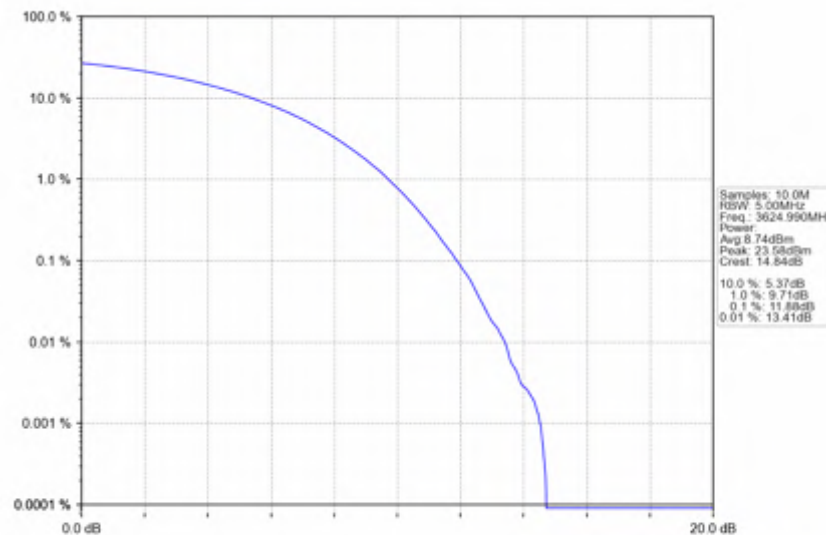
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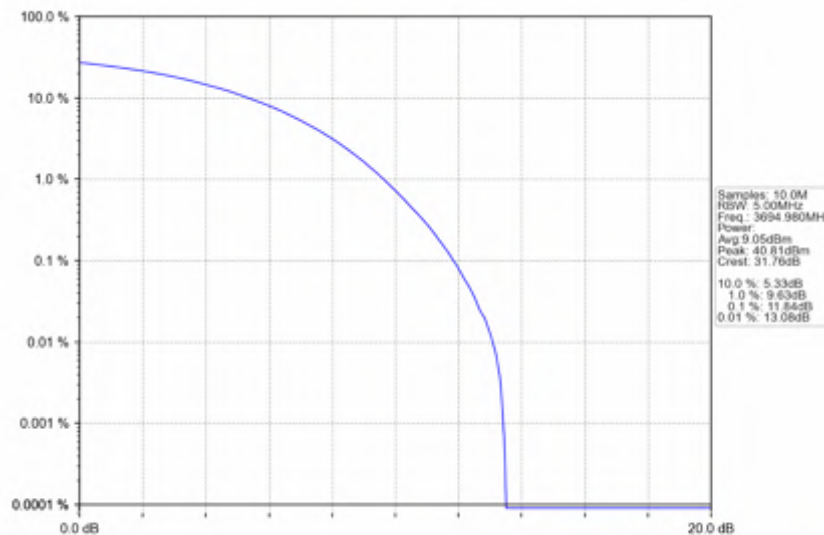
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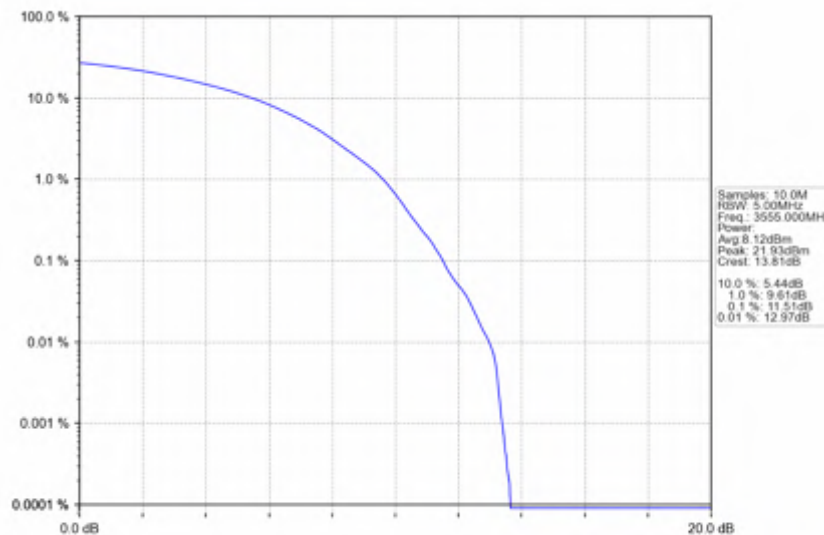
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n78d_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_3694.98MHz_Outer_Full



n78d_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_3555MHz_Outer_Full



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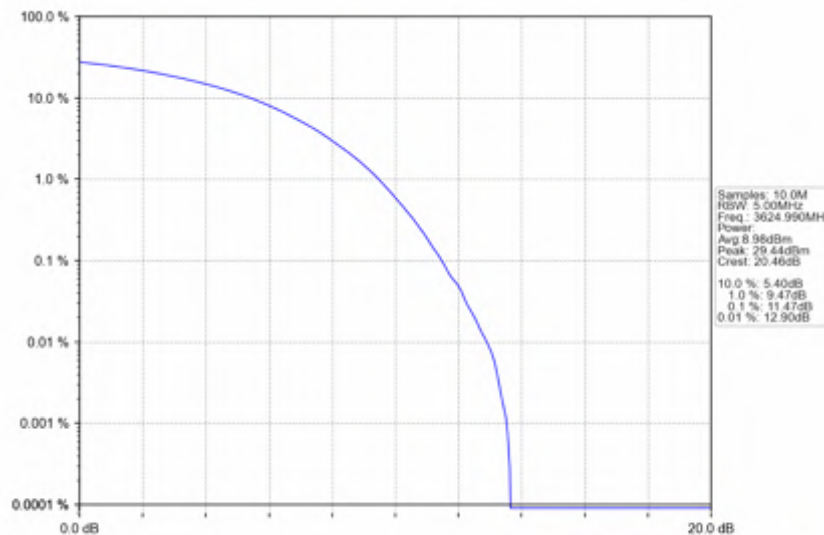
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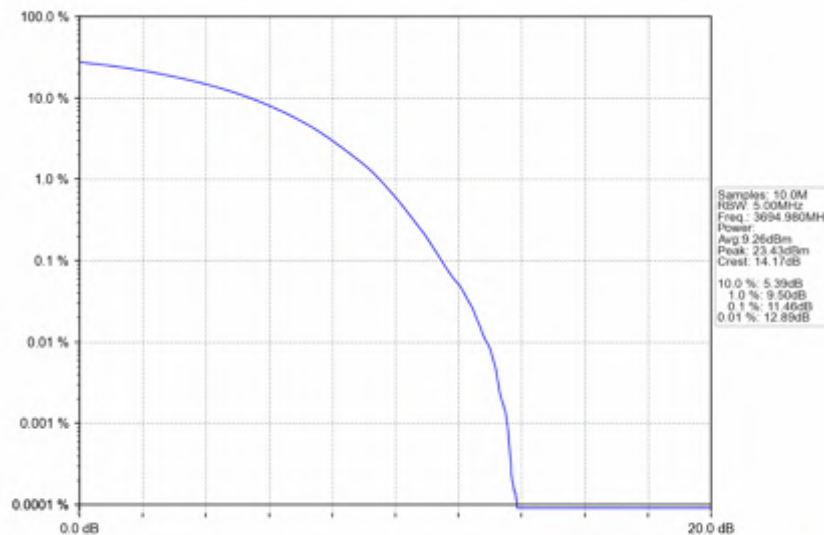
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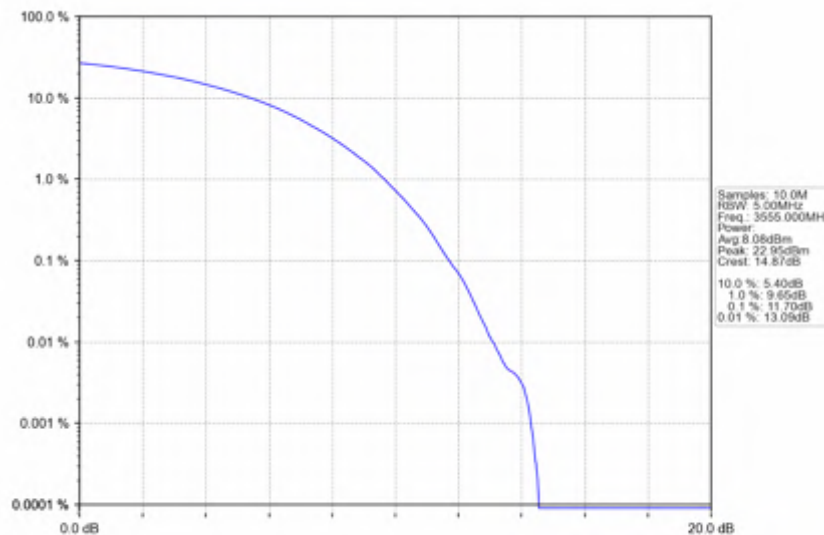
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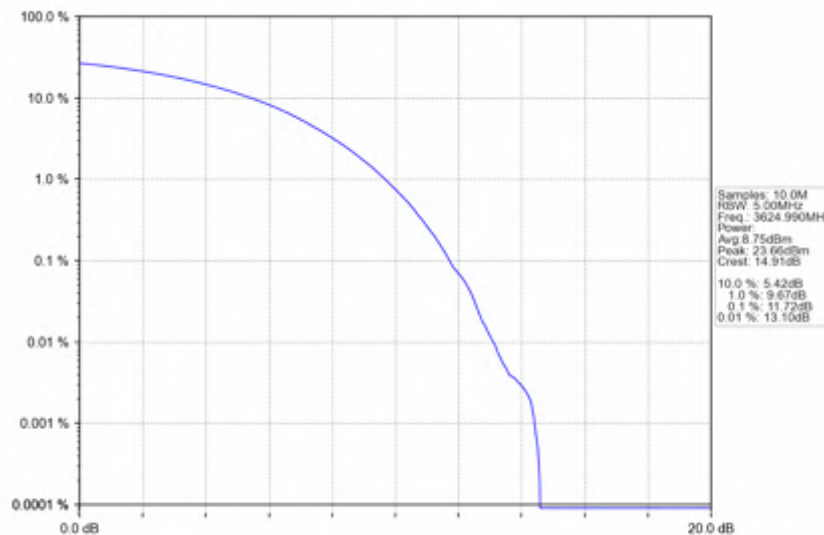
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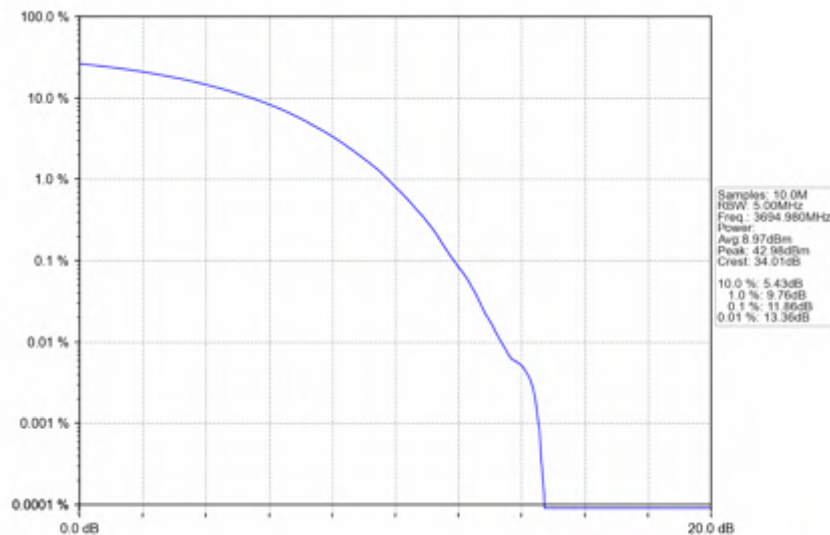
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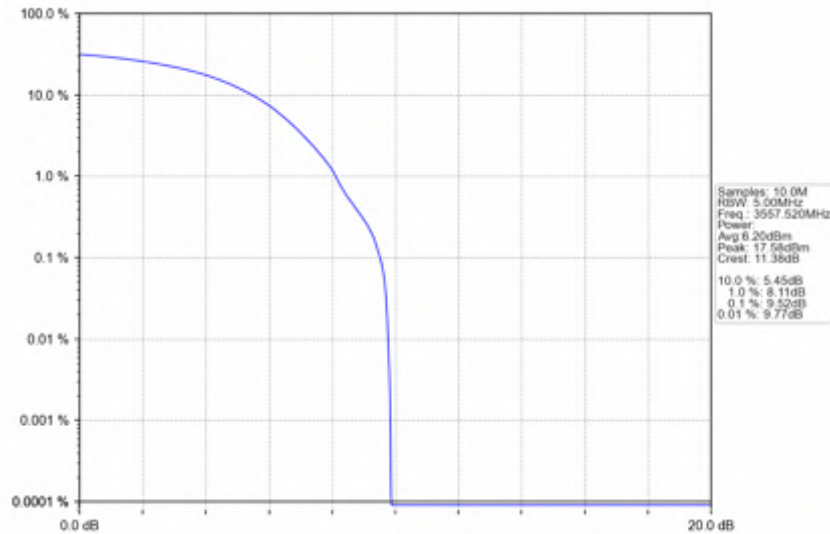
8.9 30k_SISO_15MHz_NTNV

8.9.1 Test Result

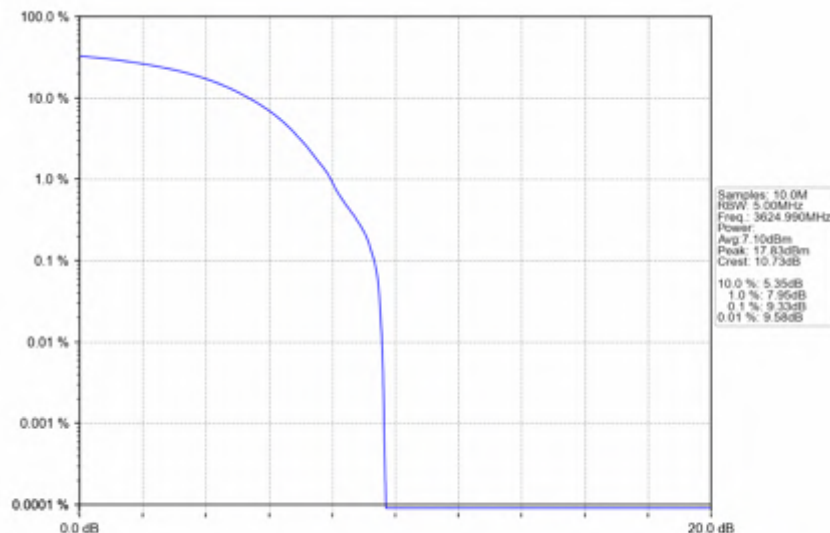
5G NR n78d SCS=30kHz SISO 15MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3557.52	Outer_Full	9.52	/	/	<=13	Pass
	3624.99	Outer_Full	9.33	/	/	<=13	Pass
	3692.49	Outer_Full	9.64	/	/	<=13	Pass
DFT-s-OFDM QPSK	3557.52	Outer_Full	9.85	/	/	<=13	Pass
	3624.99	Outer_Full	9.88	/	/	<=13	Pass
	3692.49	Outer_Full	9.77	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3557.52	Outer_Full	10.45	/	/	<=13	Pass
	3624.99	Outer_Full	10.47	/	/	<=13	Pass
	3692.49	Outer_Full	10.57	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3557.52	Outer_Full	10.68	/	/	<=13	Pass
	3624.99	Outer_Full	10.58	/	/	<=13	Pass
	3692.49	Outer_Full	10.62	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3557.52	Outer_Full	10.70	/	/	<=13	Pass
	3624.99	Outer_Full	10.57	/	/	<=13	Pass
	3692.49	Outer_Full	10.45	/	/	<=13	Pass
CP-OFDM QPSK	3557.52	Outer_Full	11.75	/	/	<=13	Pass
	3624.99	Outer_Full	11.99	/	/	<=13	Pass
	3692.49	Outer_Full	11.77	/	/	<=13	Pass
CP-OFDM 16 QAM	3557.52	Outer_Full	11.53	/	/	<=13	Pass
	3624.99	Outer_Full	11.64	/	/	<=13	Pass
	3692.49	Outer_Full	11.66	/	/	<=13	Pass
CP-OFDM 64 QAM	3557.52	Outer_Full	11.76	/	/	<=13	Pass
	3624.99	Outer_Full	11.87	/	/	<=13	Pass
	3692.49	Outer_Full	11.87	/	/	<=13	Pass
CP-OFDM 256 QAM	3557.52	Outer_Full	11.93	/	/	<=13	Pass
	3624.99	Outer_Full	11.67	/	/	<=13	Pass
	3692.49	Outer_Full	11.87	/	/	<=13	Pass

8.9.2 Test Graph

n78d_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_3557.52MHz_Outer_Full



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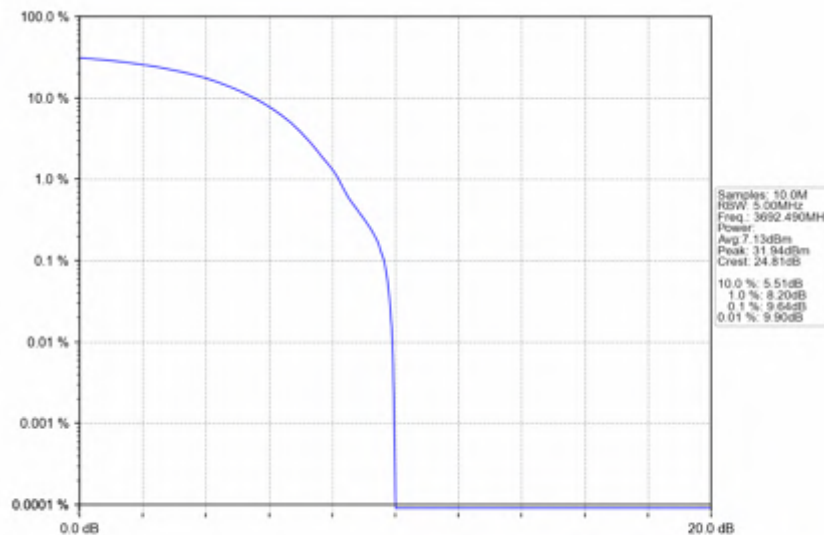
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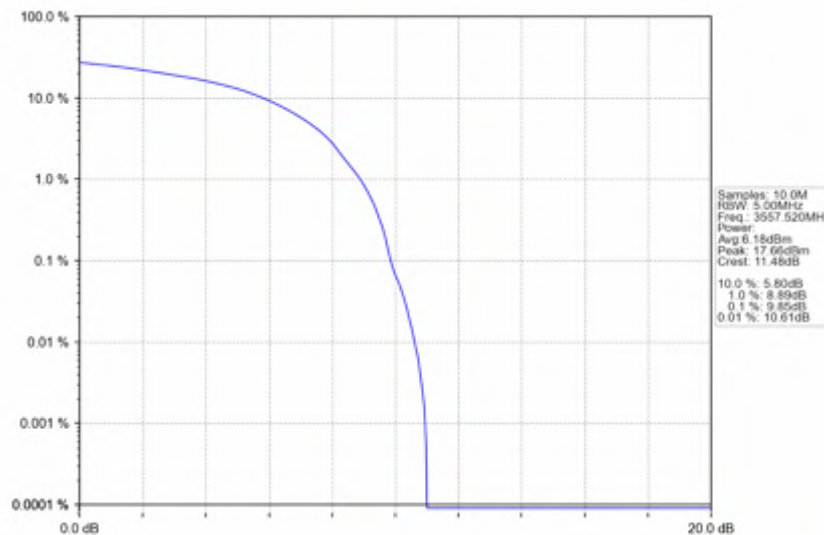
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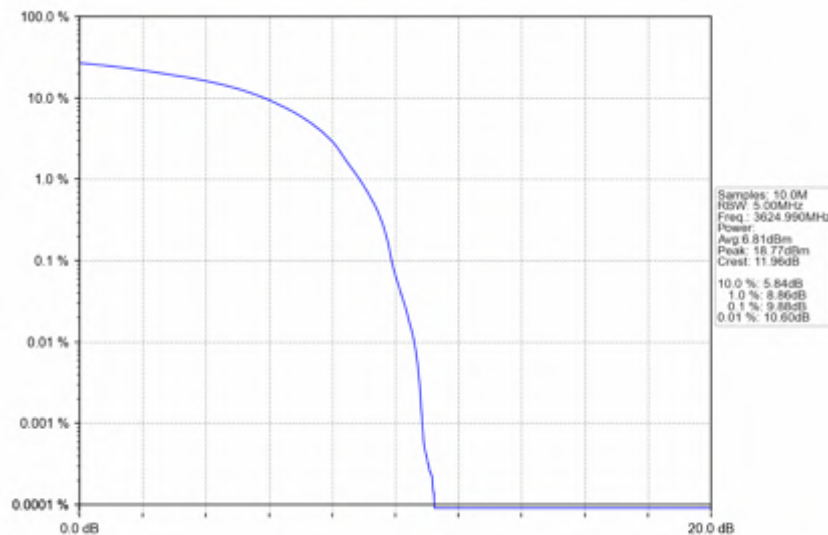


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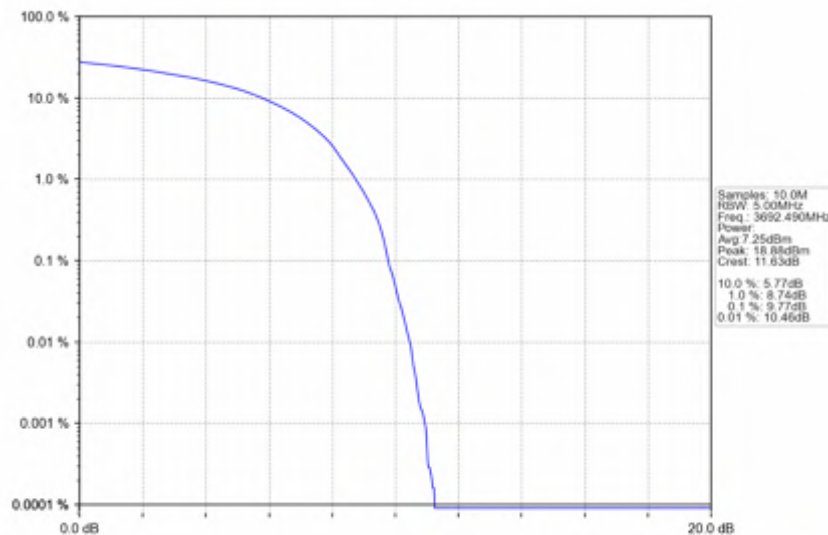
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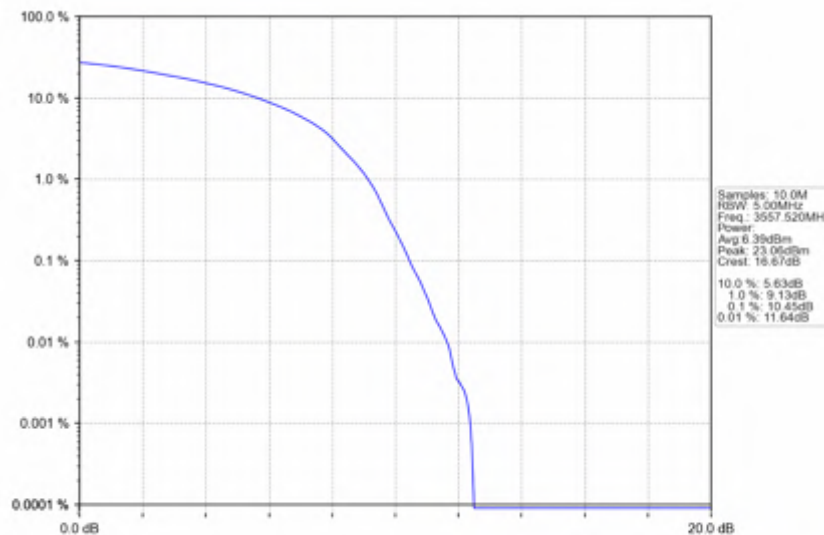
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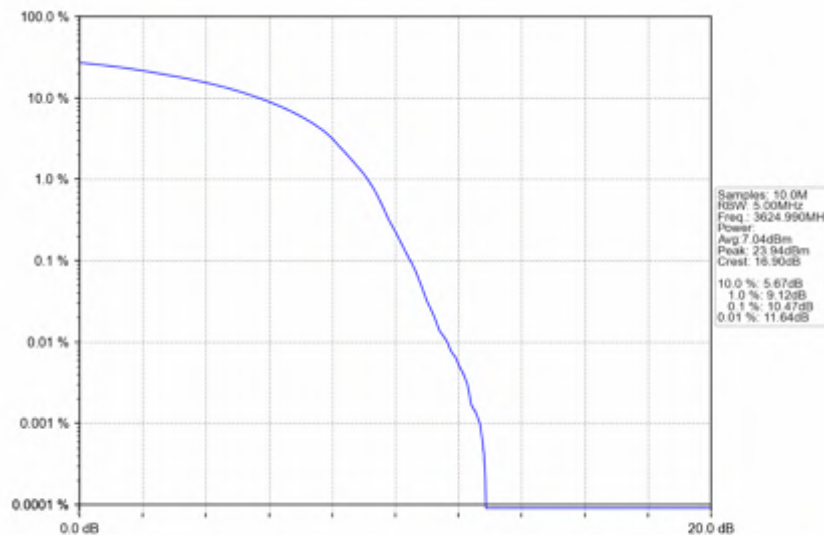
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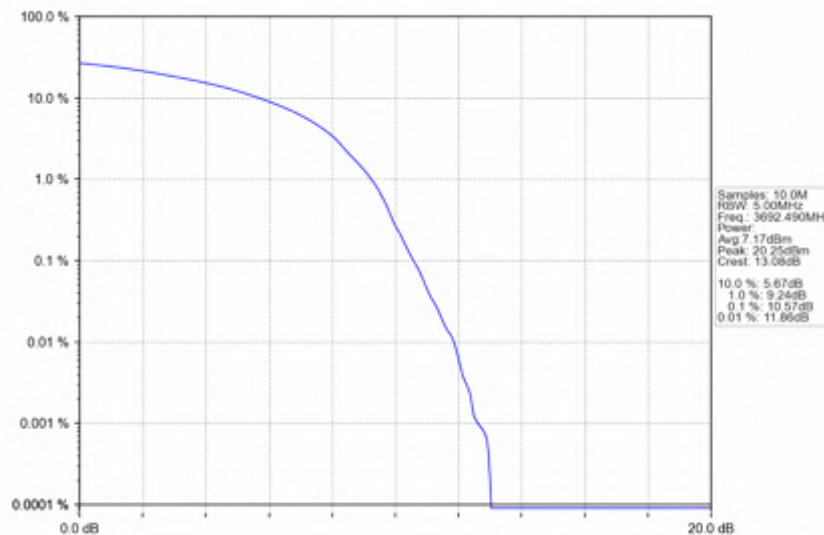
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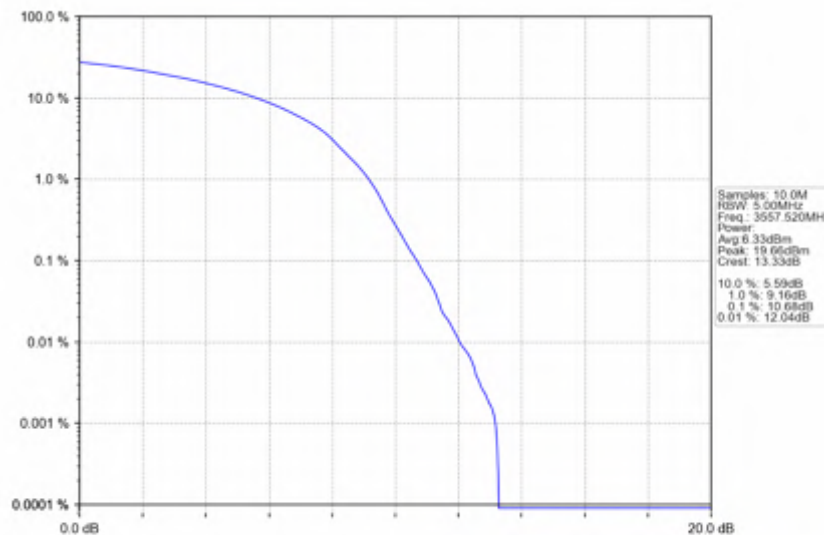
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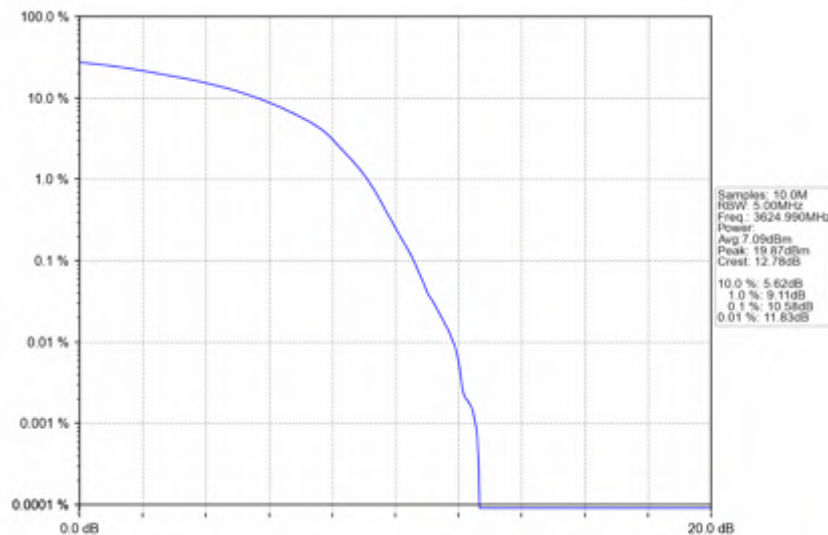


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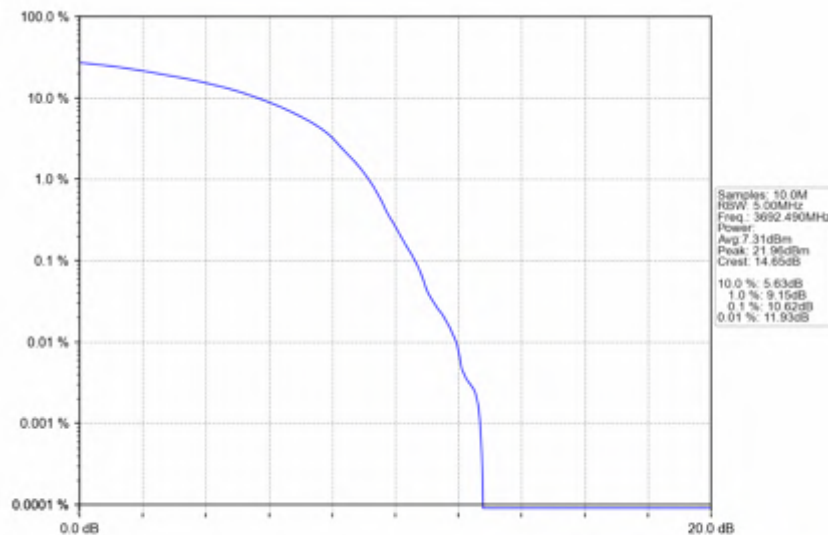
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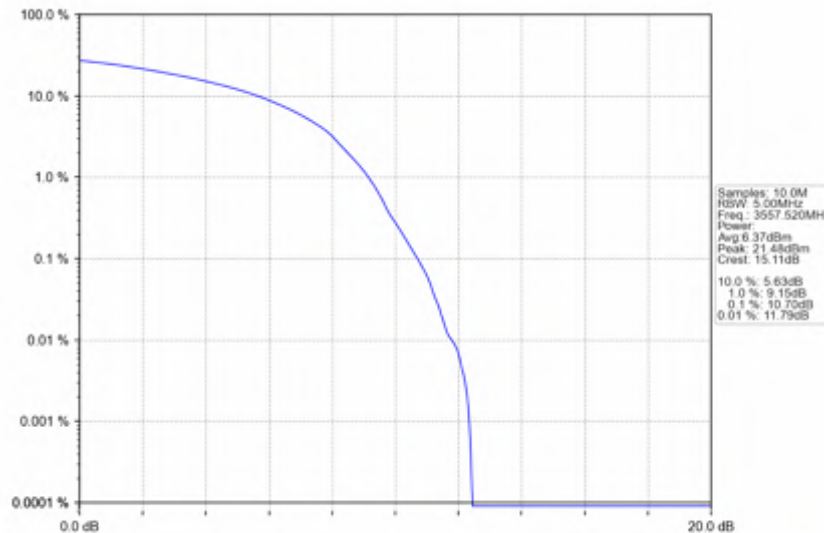
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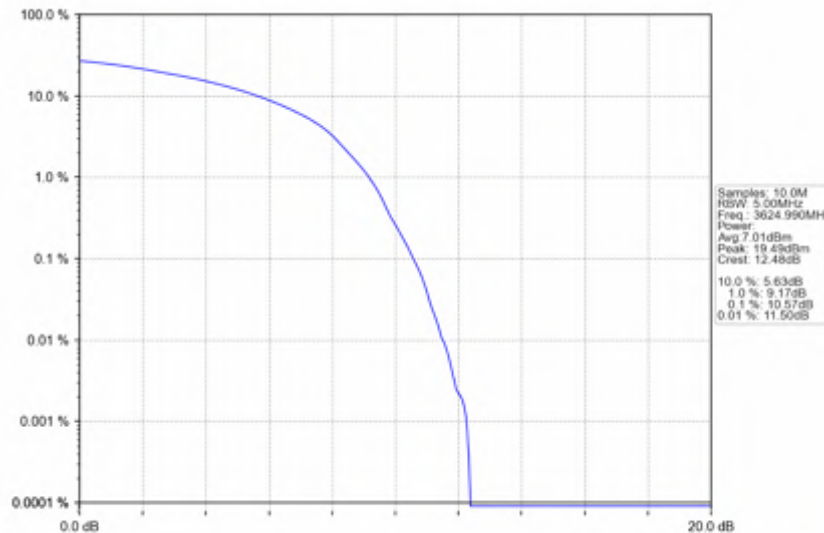
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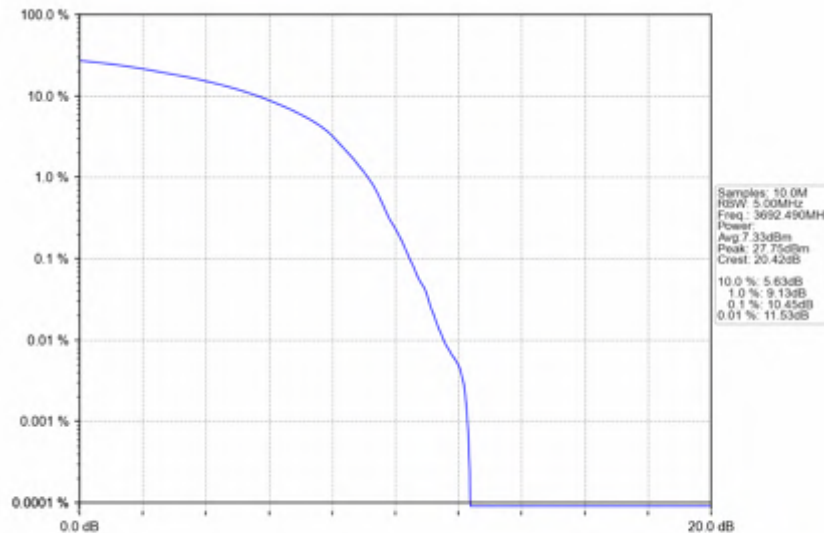
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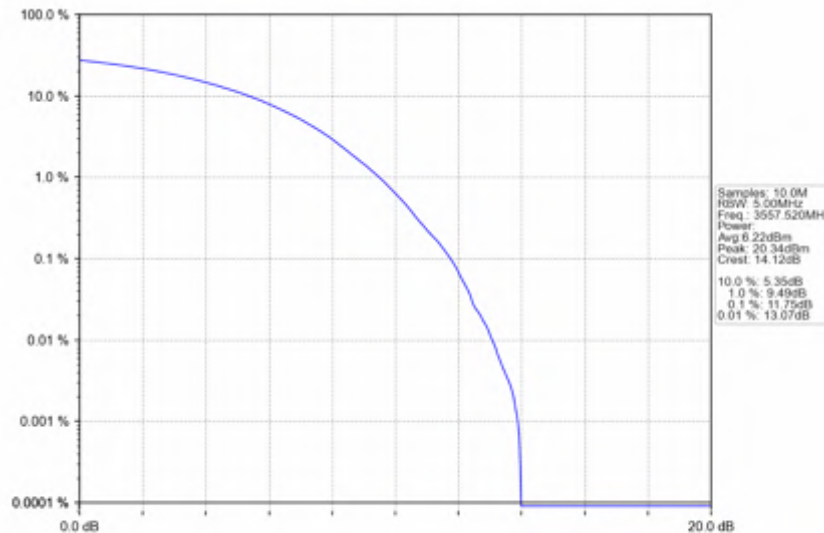
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n78d_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_3692.49MHz_Outer_Full



n78d_30kHz_SISO_NTNV_15MHz_CP-OFDM_QPSK_3557.52MHz_Outer_Full



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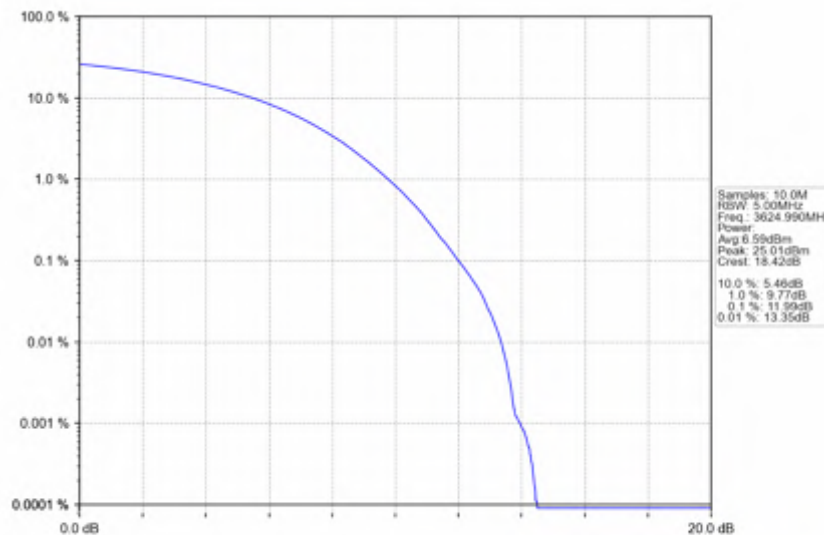
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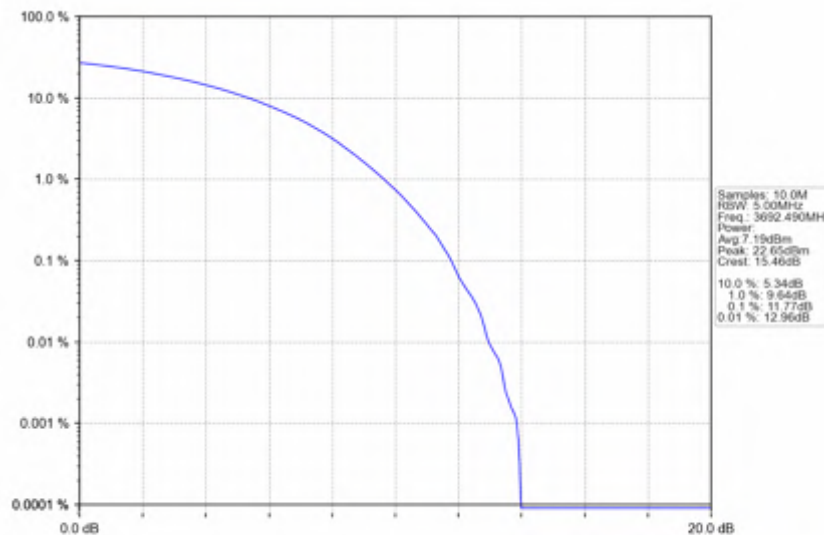
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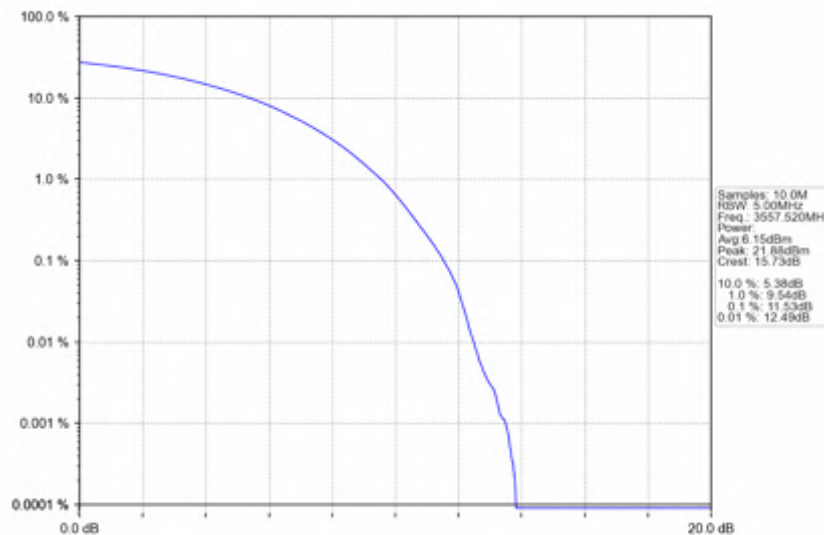


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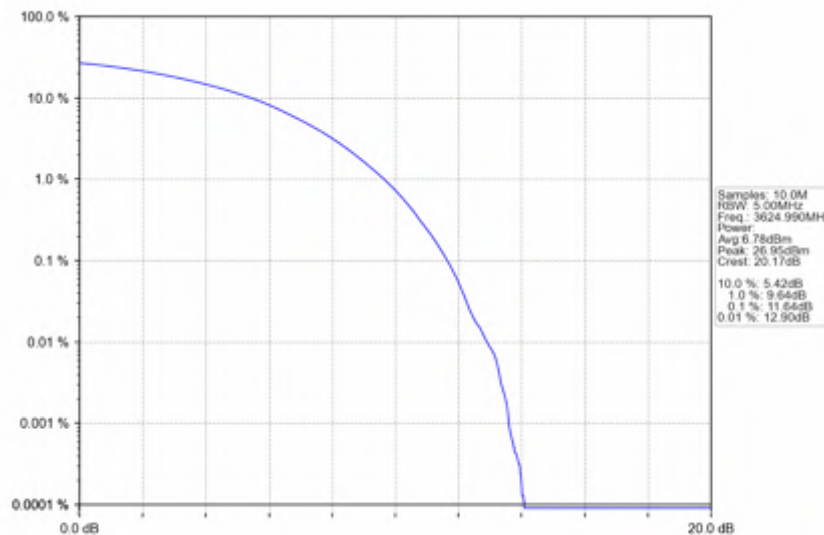
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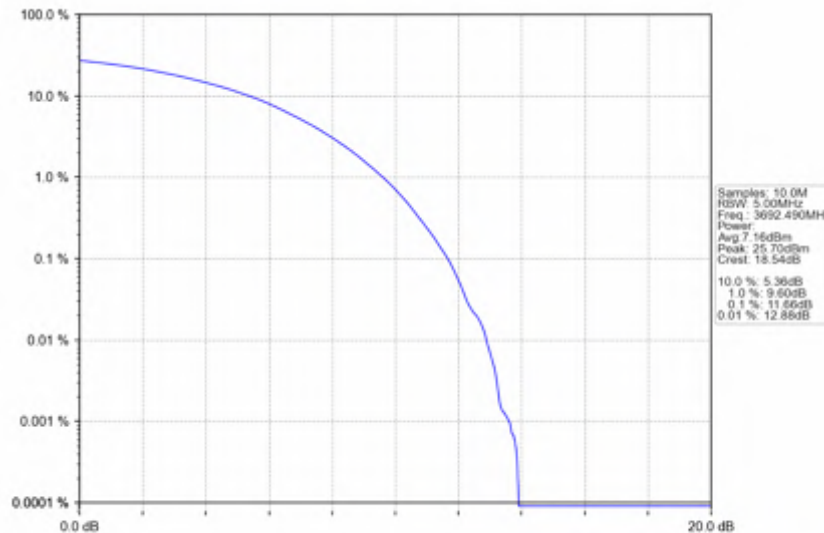
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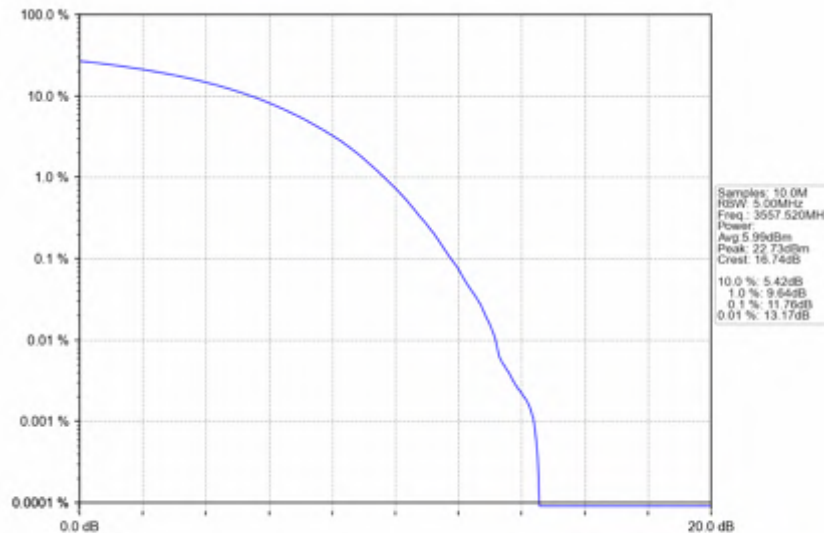
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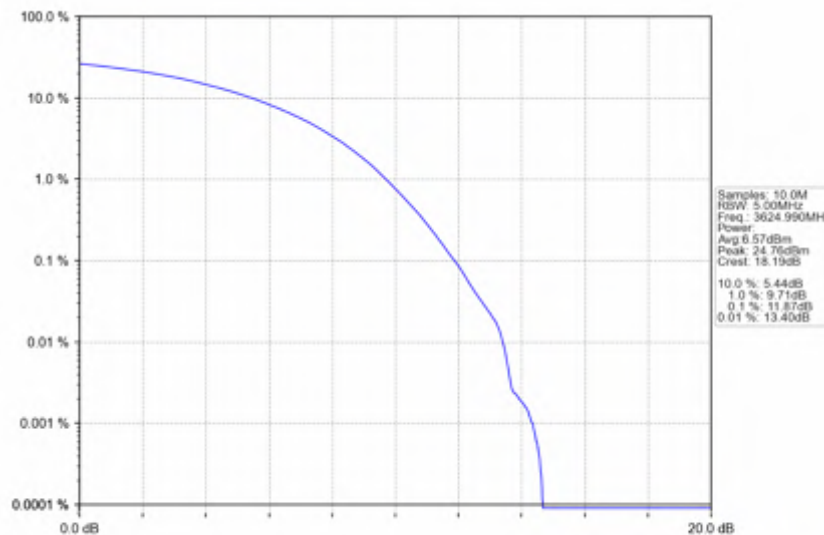
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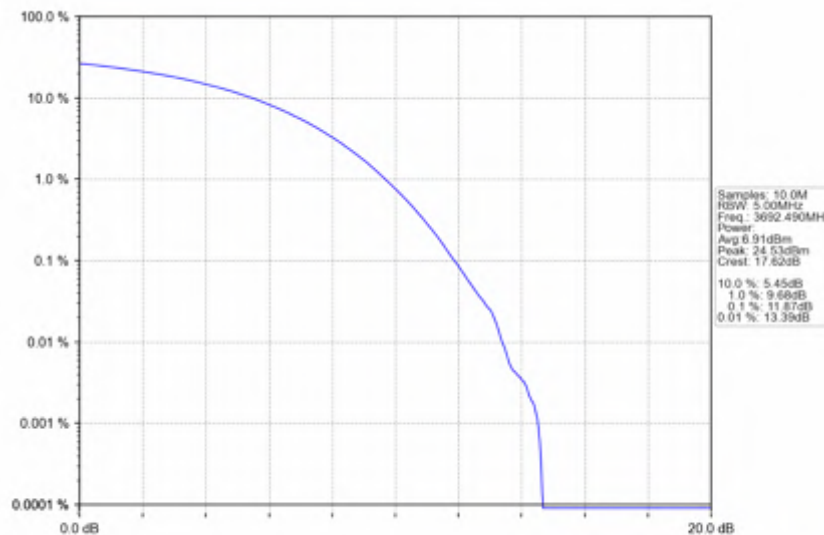
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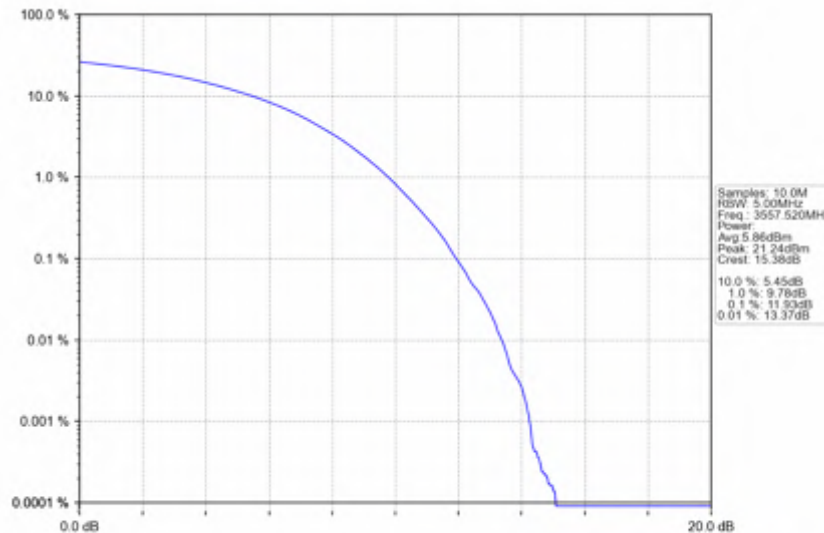
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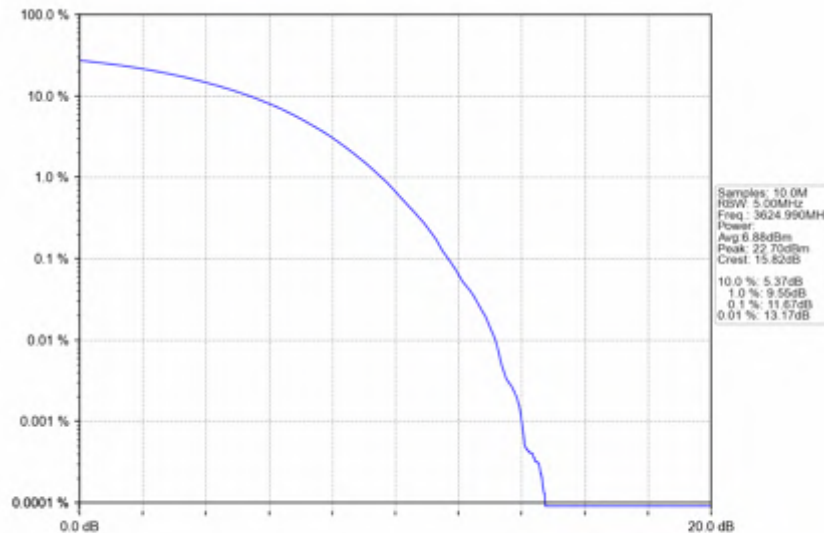
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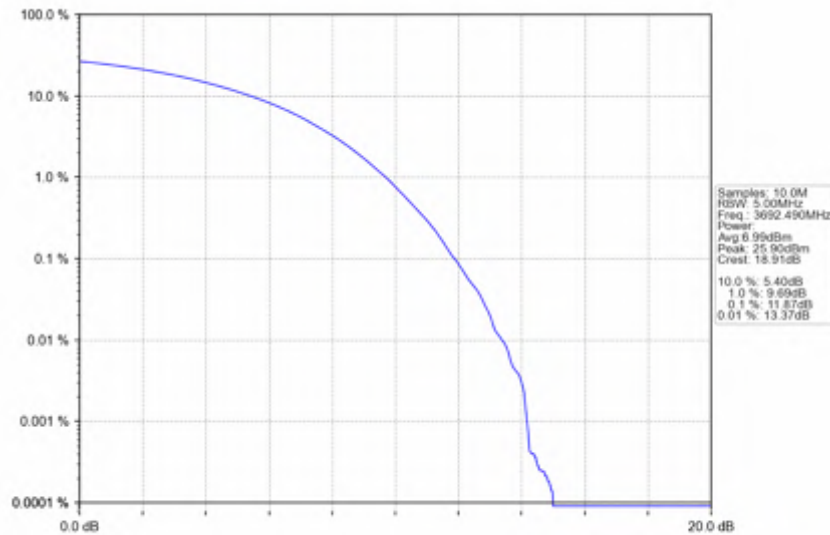
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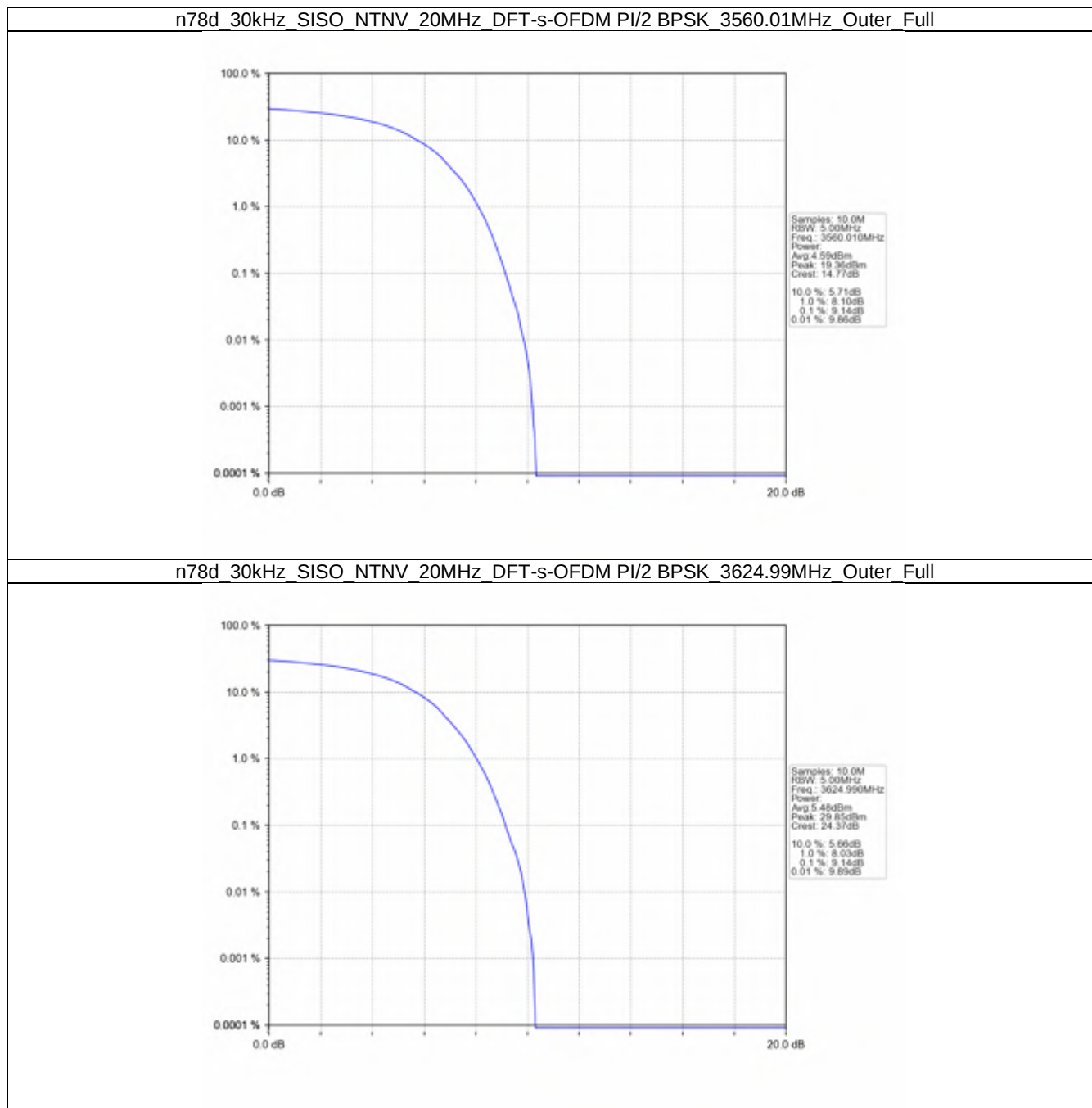
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8.10 30k_SISO_20MHz_NTNV

8.10.1 Test Result

5G NR n78d SCS=30kHz SISO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3560.01	Outer_Full	9.14	/	/	<=13	Pass
	3624.99	Outer_Full	9.14	/	/	<=13	Pass
	3690	Outer_Full	9.19	/	/	<=13	Pass
DFT-s-OFDM QPSK	3560.01	Outer_Full	10.30	/	/	<=13	Pass
	3624.99	Outer_Full	10.15	/	/	<=13	Pass
	3690	Outer_Full	10.28	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3560.01	Outer_Full	11.01	/	/	<=13	Pass
	3624.99	Outer_Full	10.87	/	/	<=13	Pass
	3690	Outer_Full	10.97	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3560.01	Outer_Full	10.78	/	/	<=13	Pass
	3624.99	Outer_Full	10.94	/	/	<=13	Pass
	3690	Outer_Full	10.89	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3560.01	Outer_Full	10.84	/	/	<=13	Pass
	3624.99	Outer_Full	10.91	/	/	<=13	Pass
	3690	Outer_Full	10.87	/	/	<=13	Pass
CP-OFDM QPSK	3560.01	Outer_Full	11.67	/	/	<=13	Pass
	3624.99	Outer_Full	11.76	/	/	<=13	Pass
	3690	Outer_Full	11.73	/	/	<=13	Pass
CP-OFDM 16 QAM	3560.01	Outer_Full	11.68	/	/	<=13	Pass
	3624.99	Outer_Full	11.64	/	/	<=13	Pass
	3690	Outer_Full	11.84	/	/	<=13	Pass
CP-OFDM 64 QAM	3560.01	Outer_Full	11.42	/	/	<=13	Pass
	3624.99	Outer_Full	11.49	/	/	<=13	Pass
	3690	Outer_Full	11.69	/	/	<=13	Pass
CP-OFDM 256 QAM	3560.01	Outer_Full	11.95	/	/	<=13	Pass
	3624.99	Outer_Full	11.94	/	/	<=13	Pass
	3690	Outer_Full	12.01	/	/	<=13	Pass

8.10.2 Test Graph



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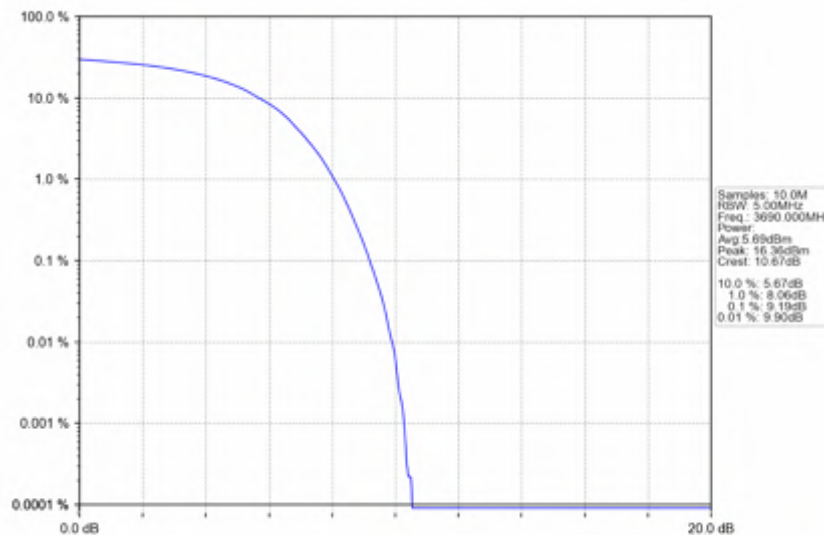
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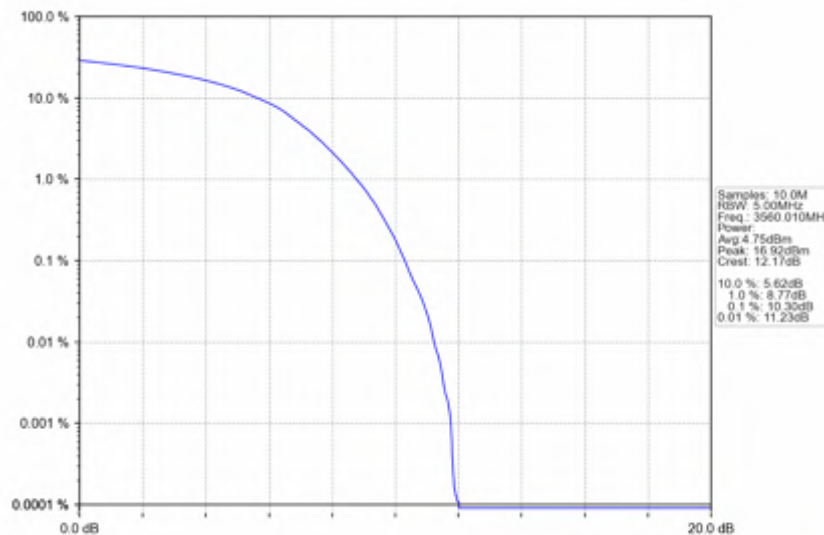
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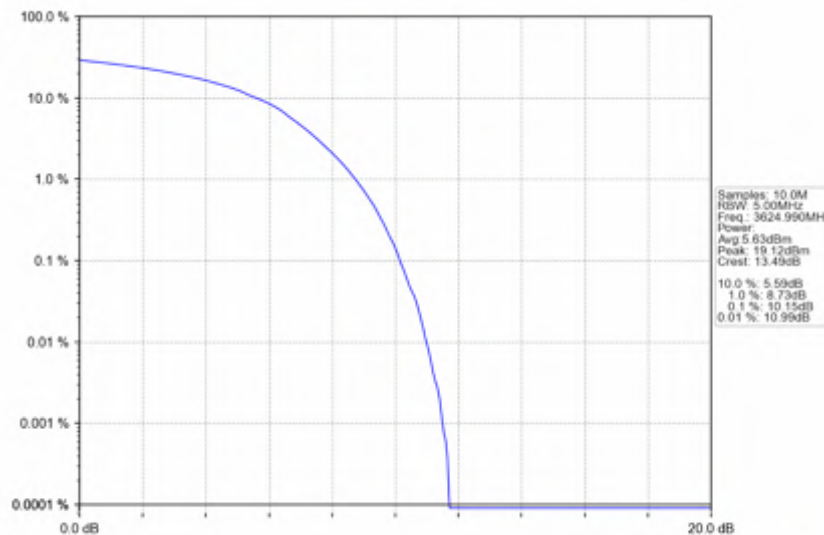


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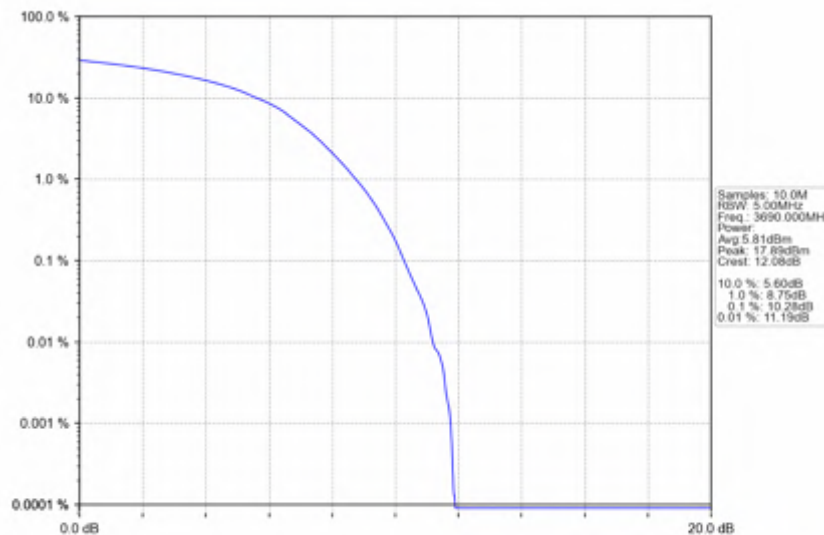
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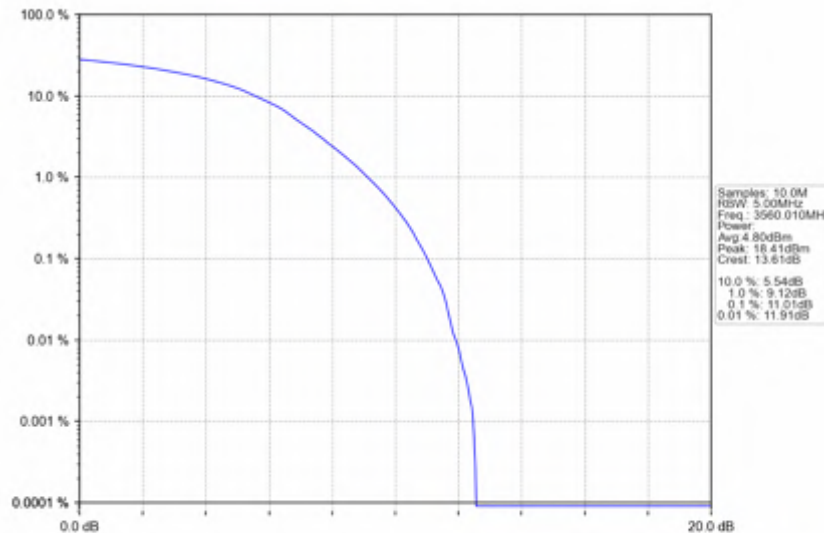


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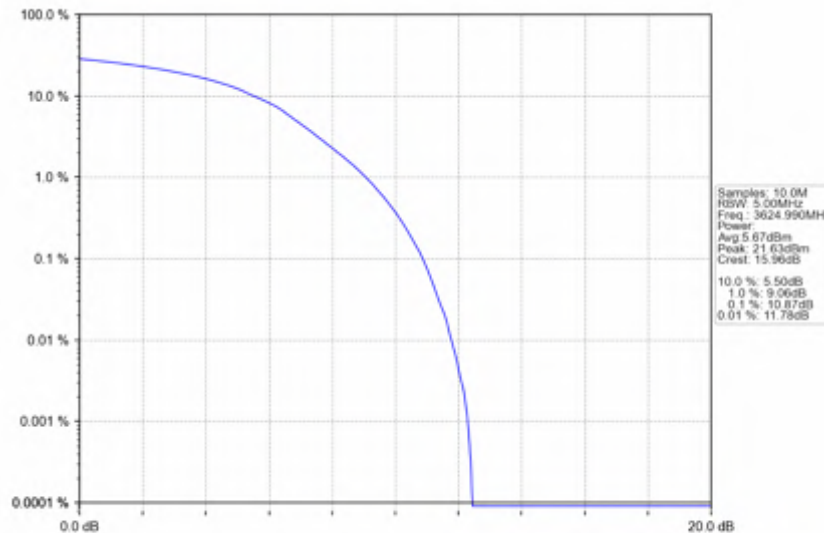
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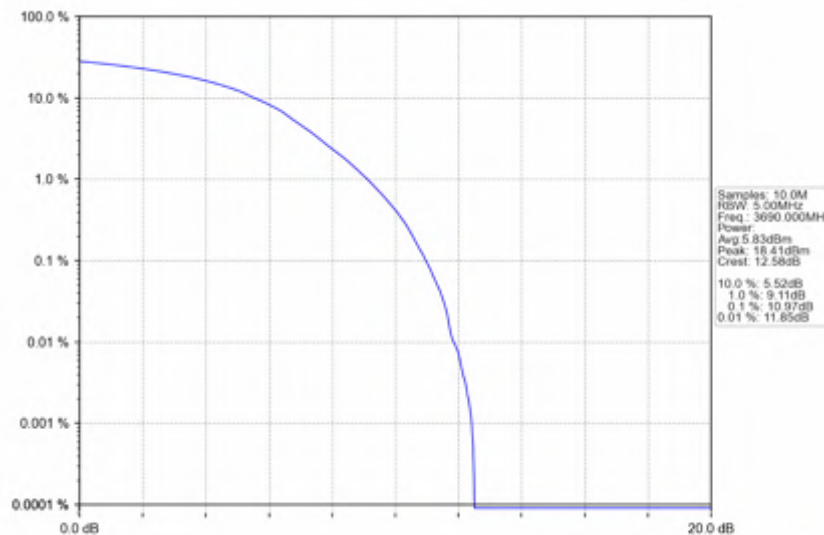
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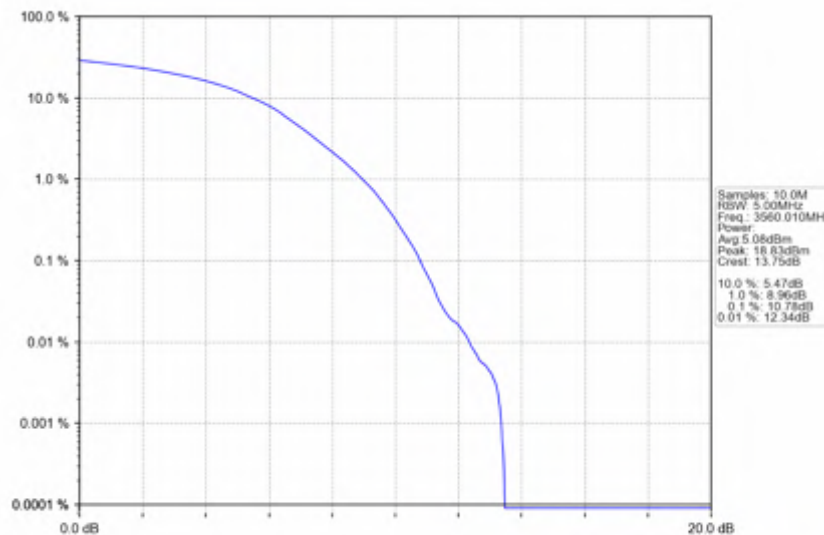
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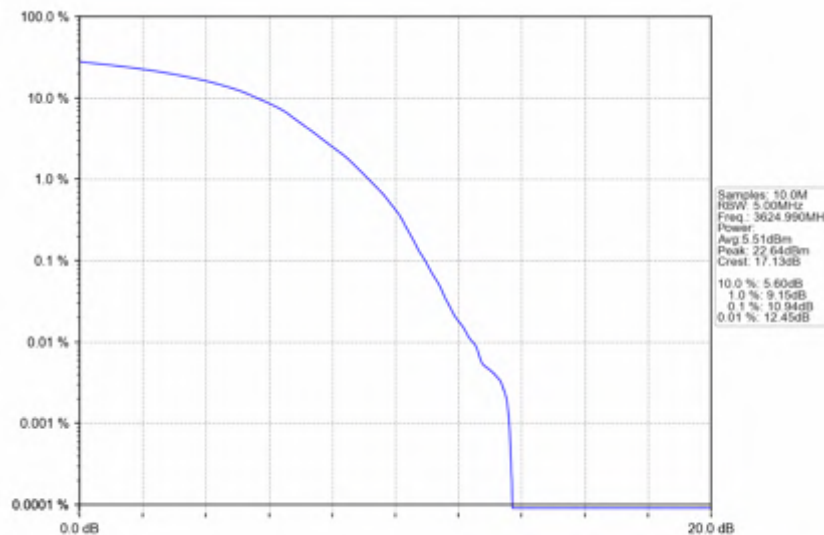


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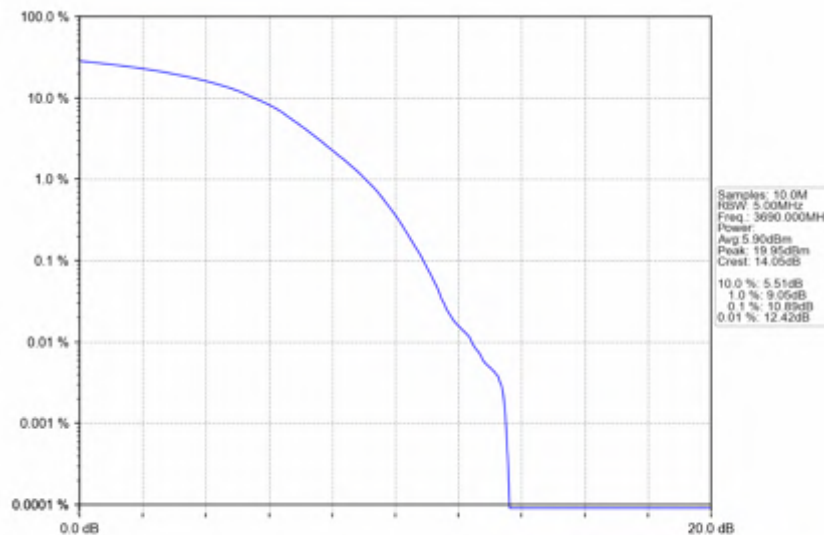
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n78d_30kHz_SISO_NTV_20MHz_DFT-s-OFDM 64 QAM_3624.99MHz_Outer_Full



n78d_30kHz_SISO_NTV_20MHz_DFT-s-OFDM 64 QAM_3690MHz_Outer_Full



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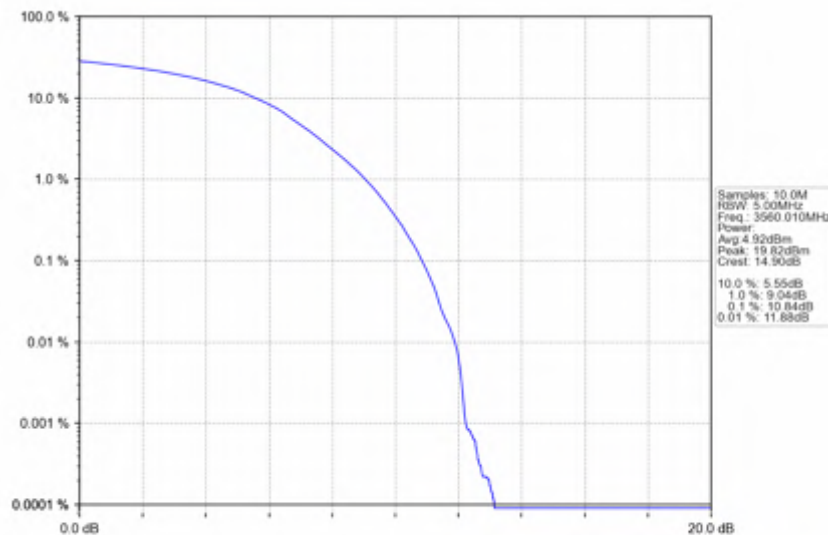
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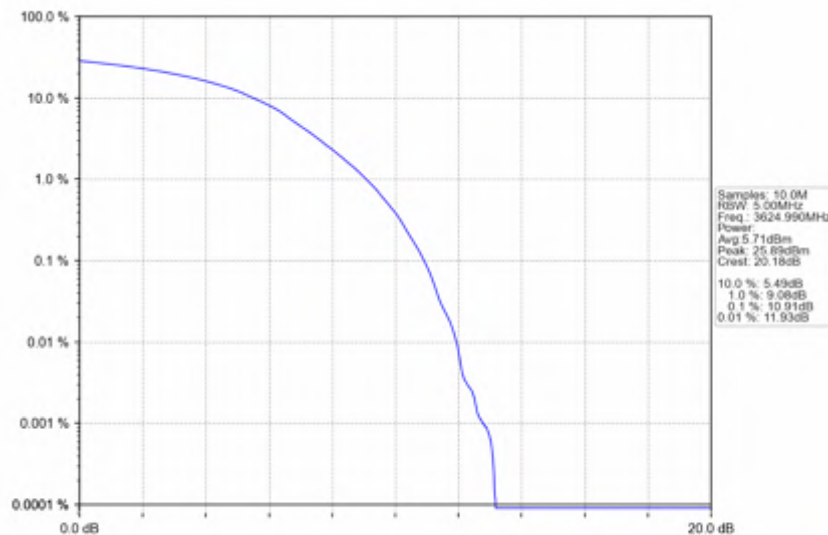
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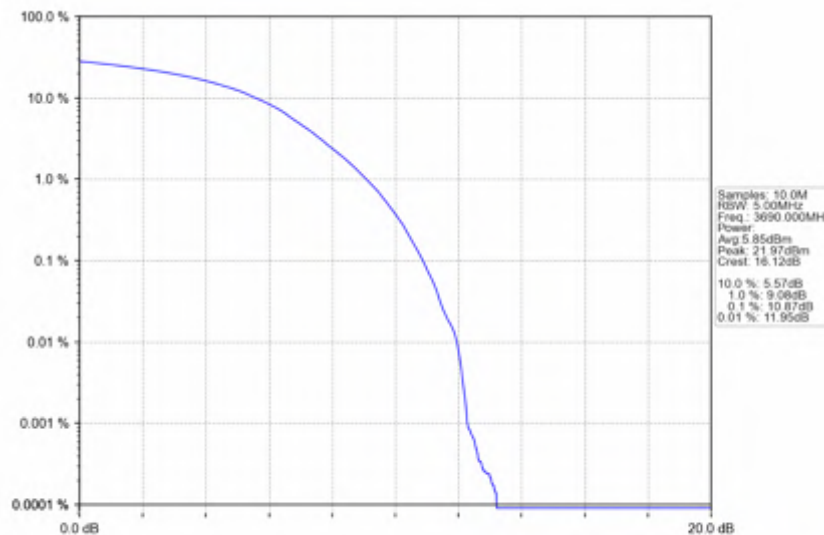
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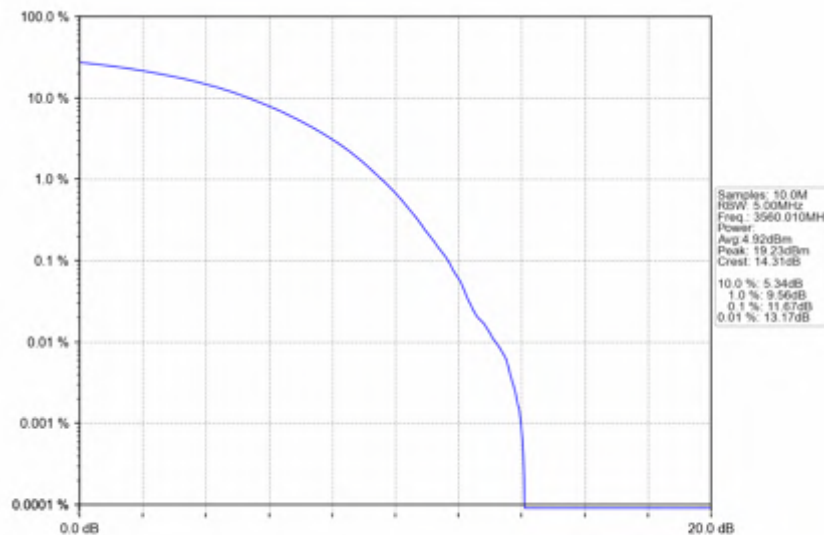
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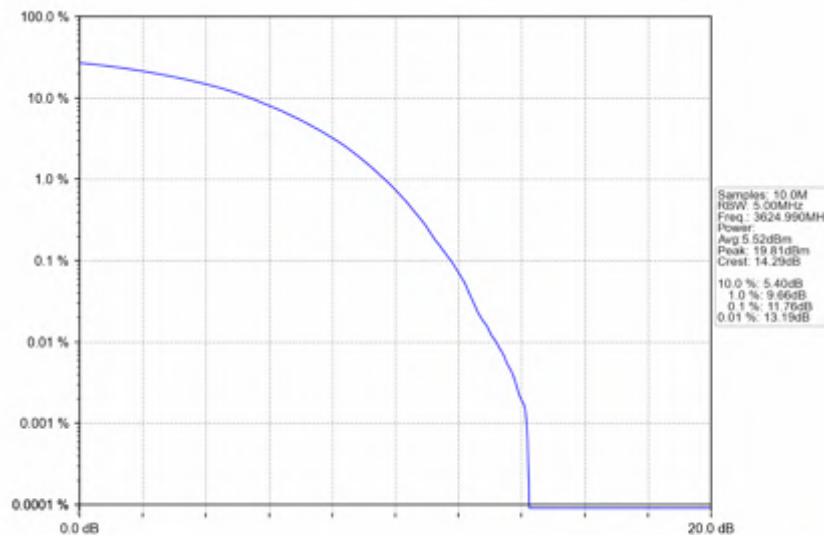
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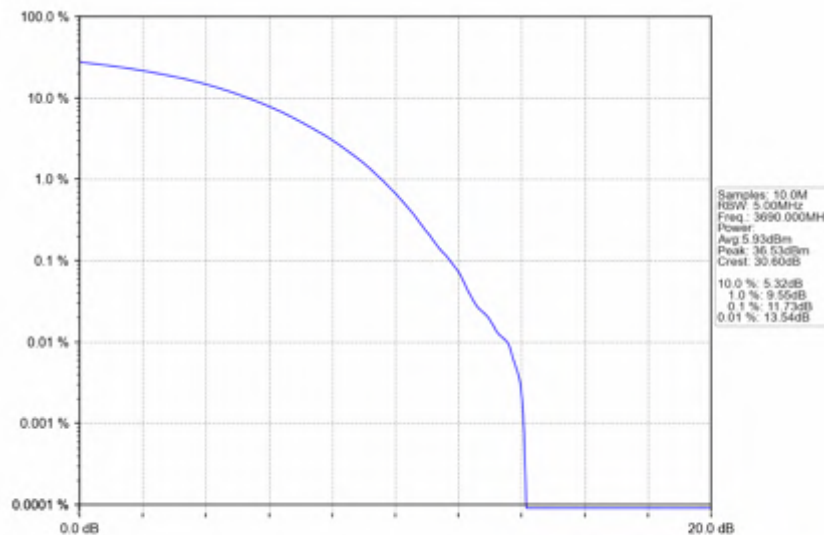
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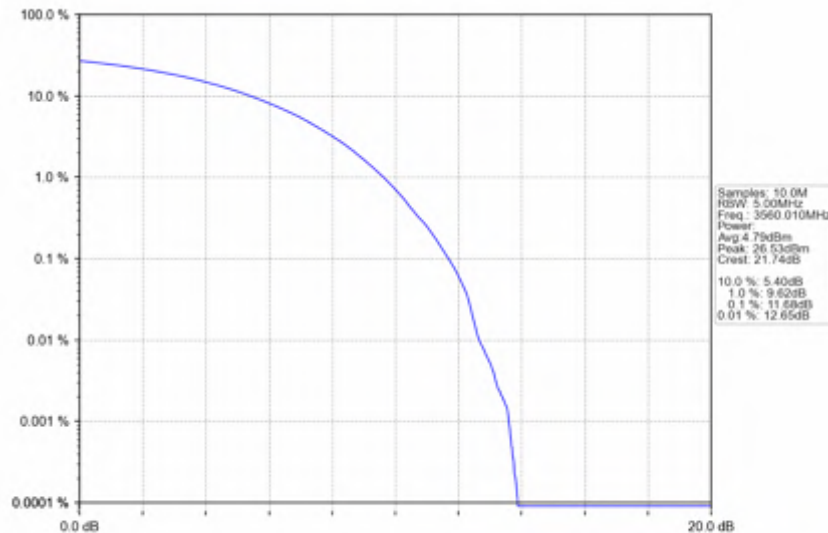
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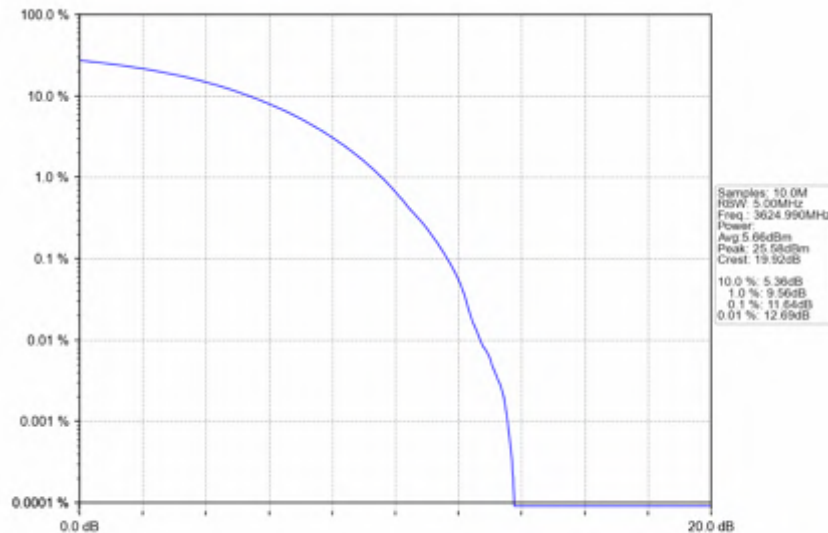
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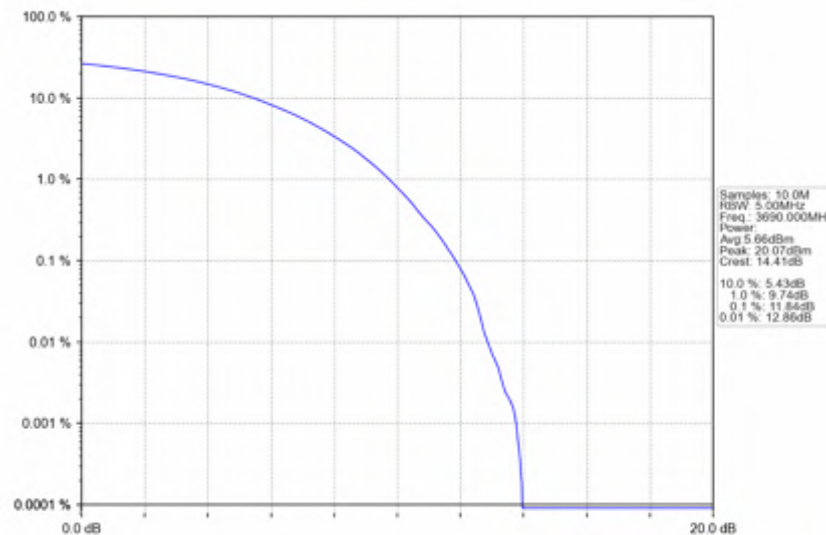
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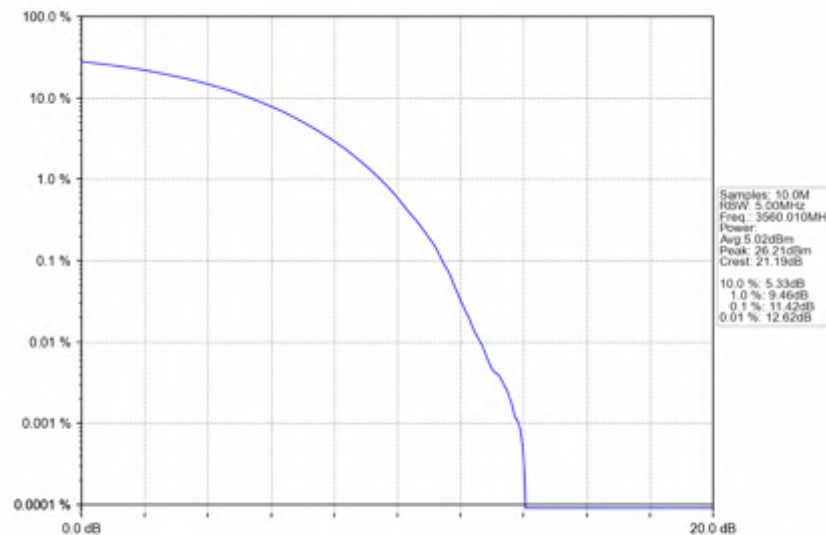
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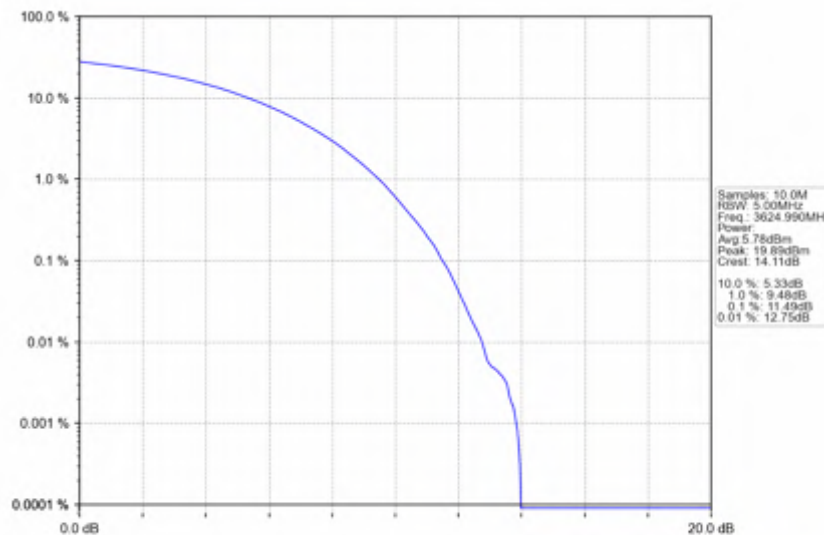


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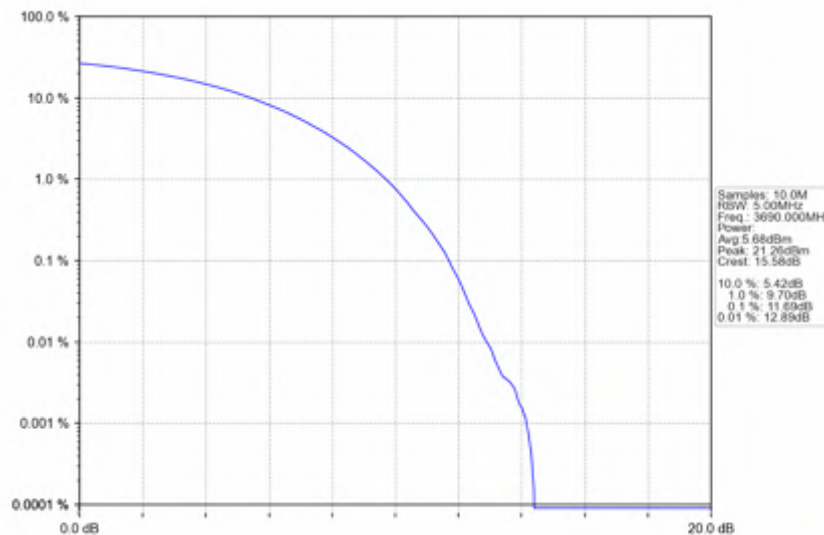
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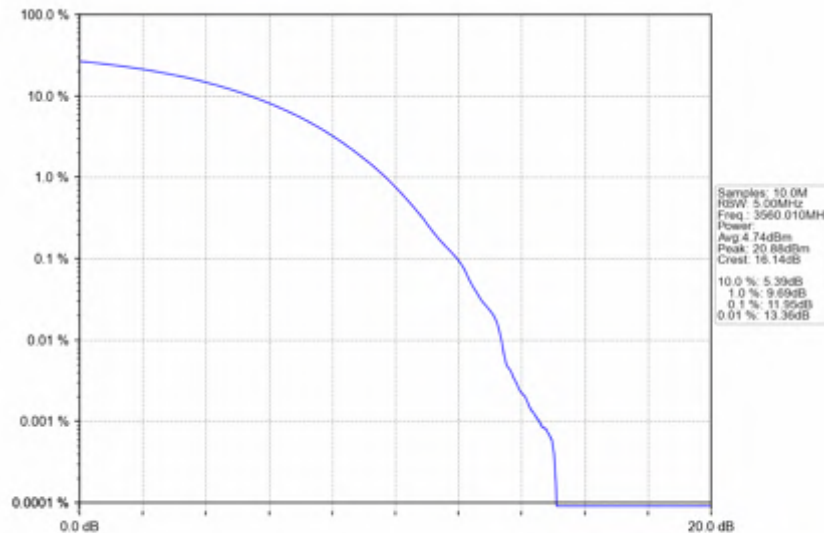
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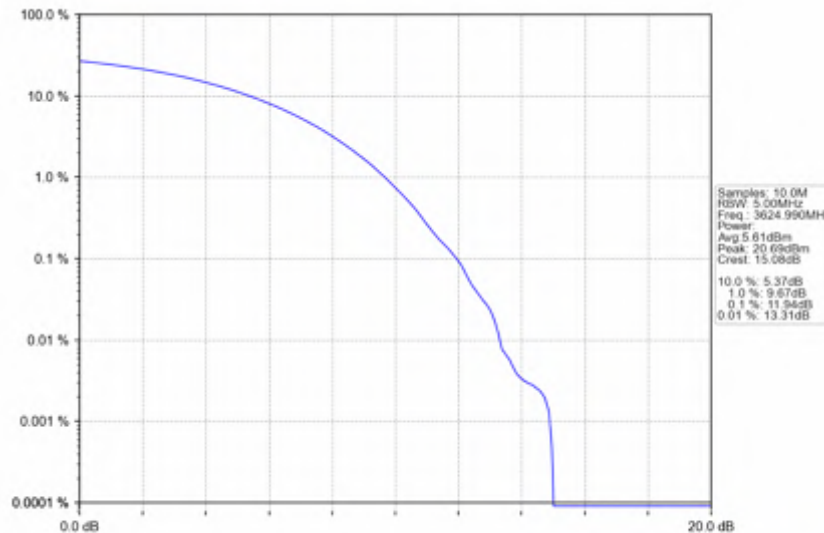
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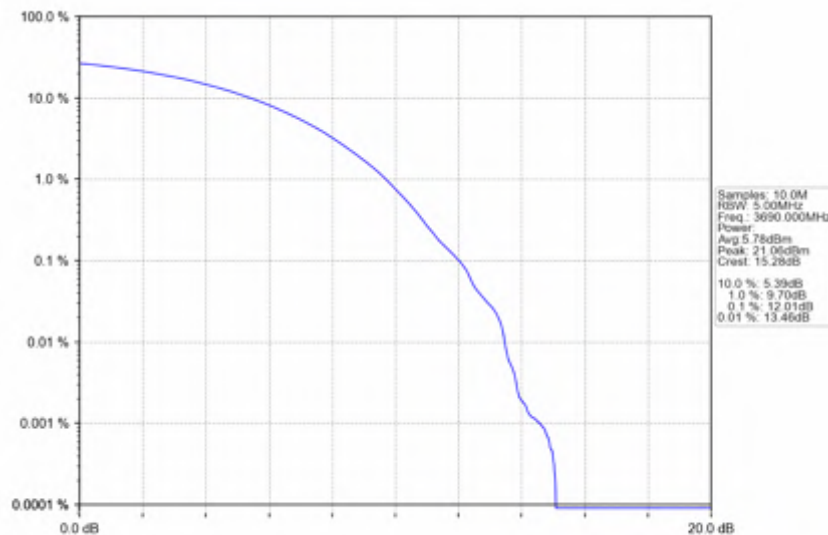


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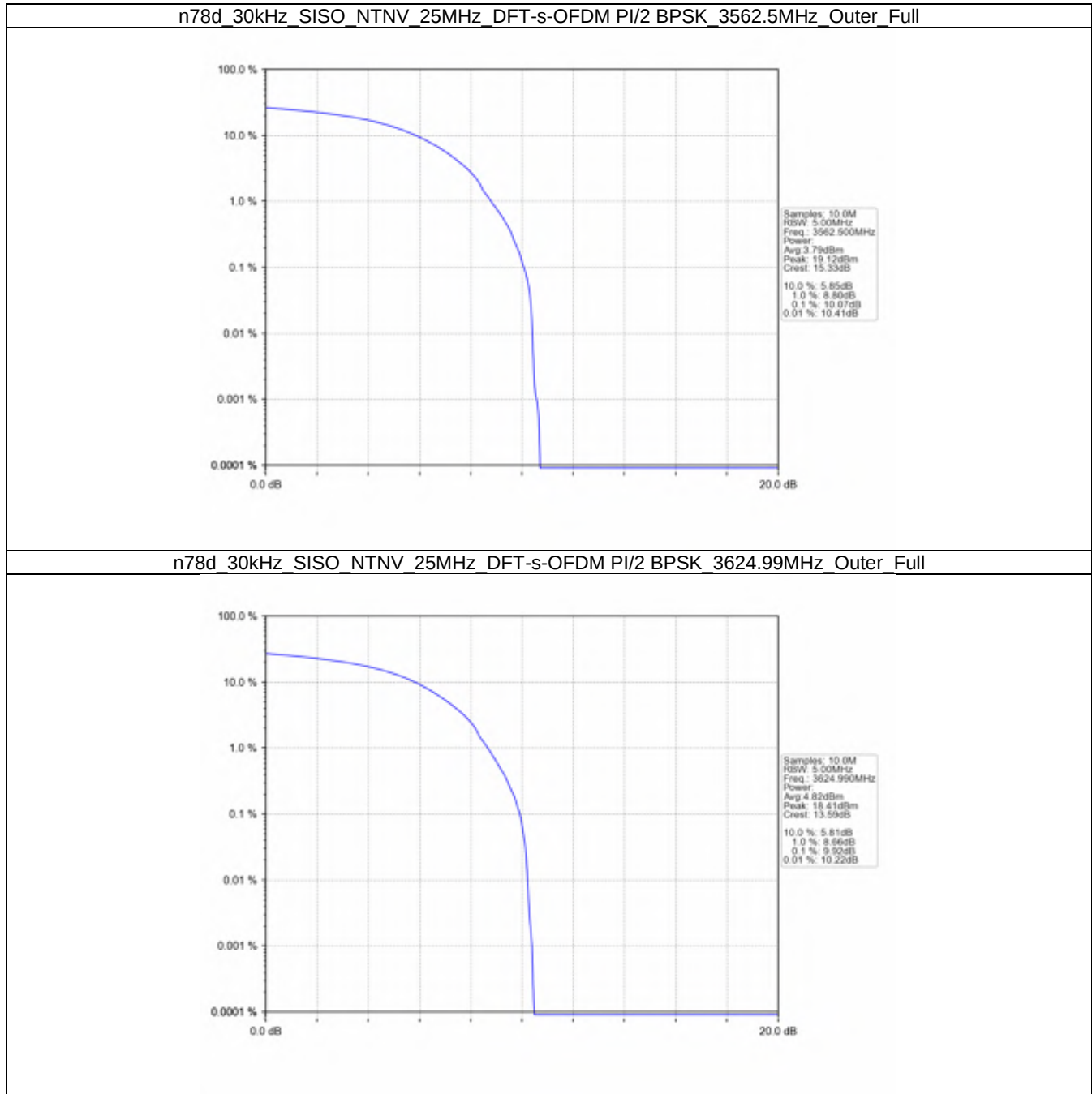
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8.11 30k_SISO_25MHz_NTNV

8.11.1 Test Result

5G NR n78d SCS=30kHz SISO 25MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3562.5	Outer_Full	10.07	/	/	<=13	Pass
	3624.99	Outer_Full	9.92	/	/	<=13	Pass
	3687.48	Outer_Full	10.06	/	/	<=13	Pass
DFT-s-OFDM QPSK	3562.5	Outer_Full	10.48	/	/	<=13	Pass
	3624.99	Outer_Full	10.49	/	/	<=13	Pass
	3687.48	Outer_Full	10.51	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3562.5	Outer_Full	10.94	/	/	<=13	Pass
	3624.99	Outer_Full	11.06	/	/	<=13	Pass
	3687.48	Outer_Full	11.11	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3562.5	Outer_Full	11.11	/	/	<=13	Pass
	3624.99	Outer_Full	11.06	/	/	<=13	Pass
	3687.48	Outer_Full	11.10	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3562.5	Outer_Full	11.23	/	/	<=13	Pass
	3624.99	Outer_Full	11.27	/	/	<=13	Pass
	3687.48	Outer_Full	11.19	/	/	<=13	Pass
CP-OFDM QPSK	3562.5	Outer_Full	11.71	/	/	<=13	Pass
	3624.99	Outer_Full	11.76	/	/	<=13	Pass
	3687.48	Outer_Full	11.65	/	/	<=13	Pass
CP-OFDM 16 QAM	3562.5	Outer_Full	11.91	/	/	<=13	Pass
	3624.99	Outer_Full	11.85	/	/	<=13	Pass
	3687.48	Outer_Full	11.96	/	/	<=13	Pass
CP-OFDM 64 QAM	3562.5	Outer_Full	11.73	/	/	<=13	Pass
	3624.99	Outer_Full	12.09	/	/	<=13	Pass
	3687.48	Outer_Full	11.75	/	/	<=13	Pass
CP-OFDM 256 QAM	3562.5	Outer_Full	11.56	/	/	<=13	Pass
	3624.99	Outer_Full	11.68	/	/	<=13	Pass
	3687.48	Outer_Full	11.61	/	/	<=13	Pass

8.11.2 Test Graph



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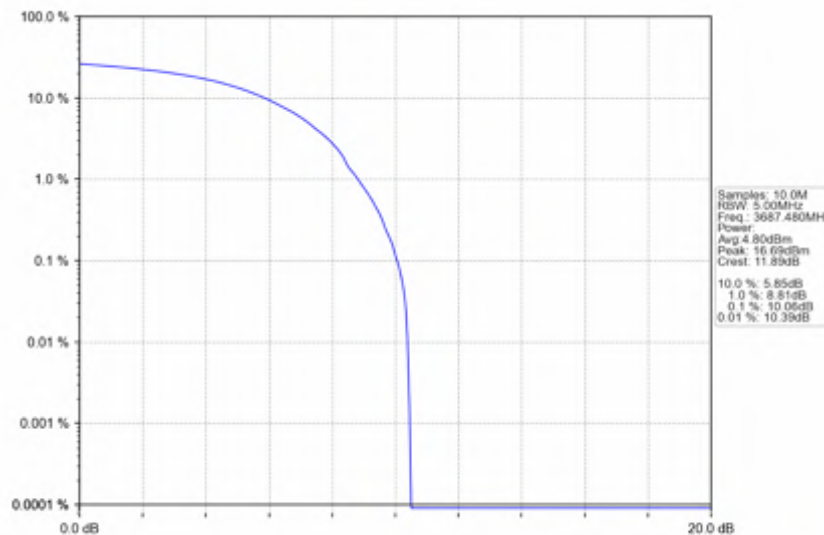
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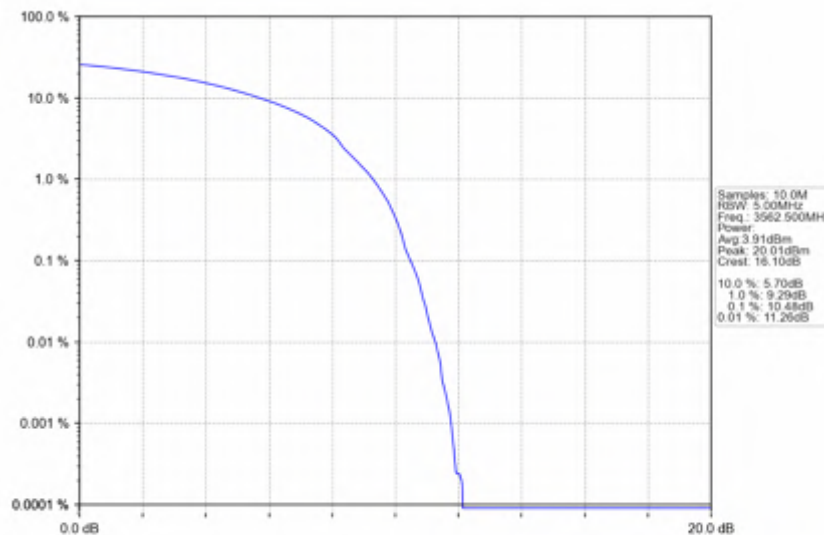
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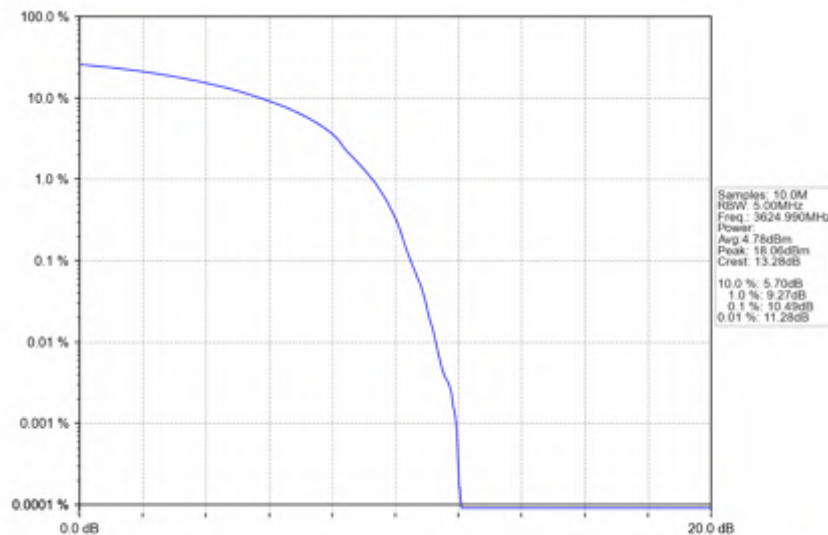
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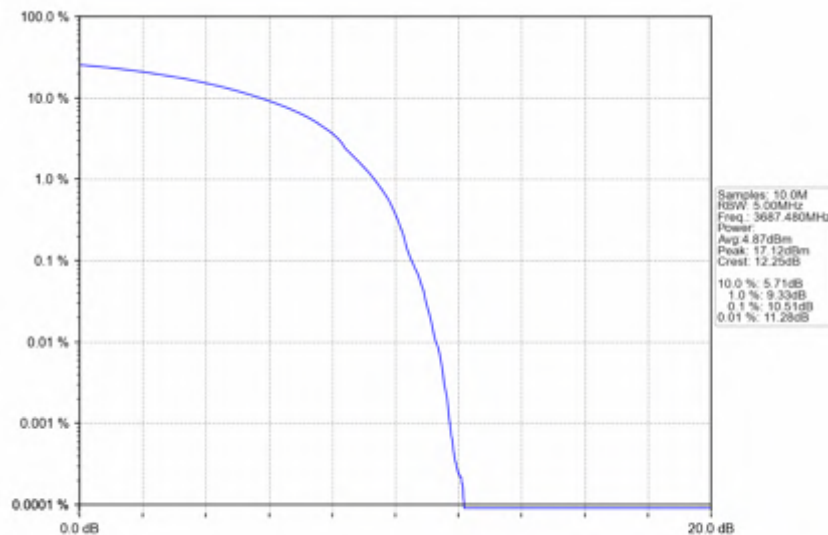
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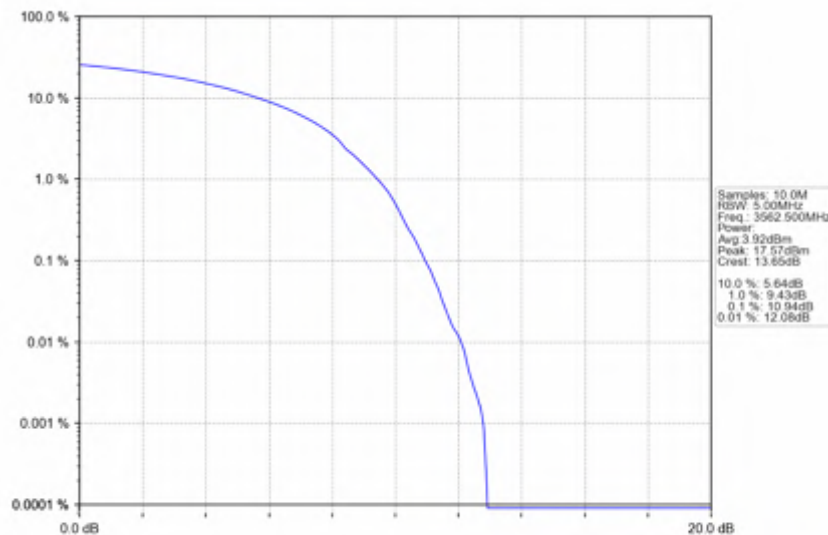
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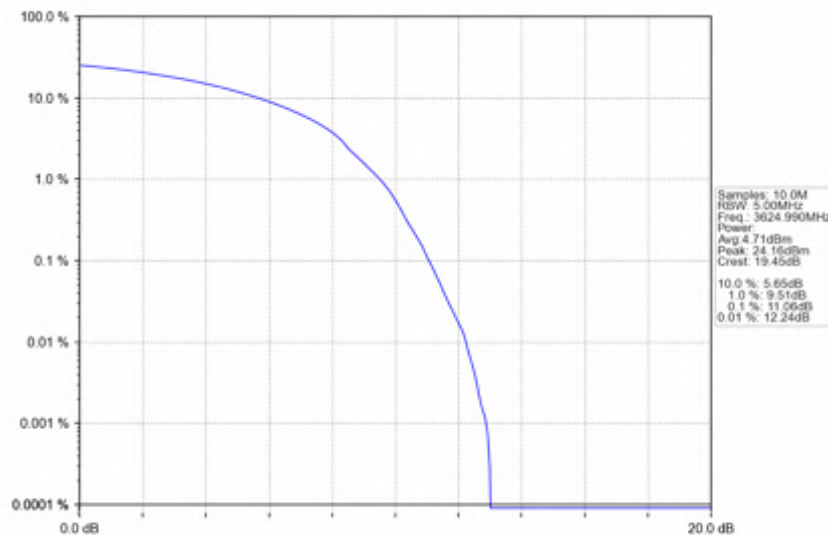
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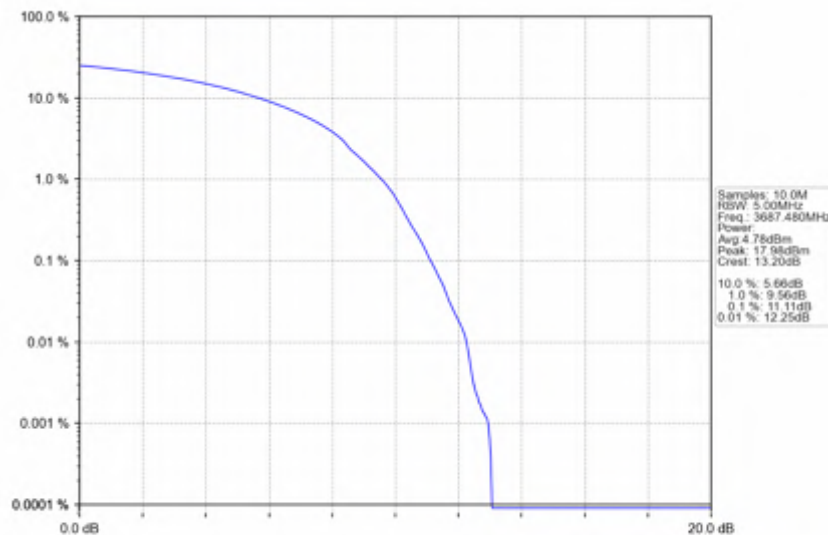
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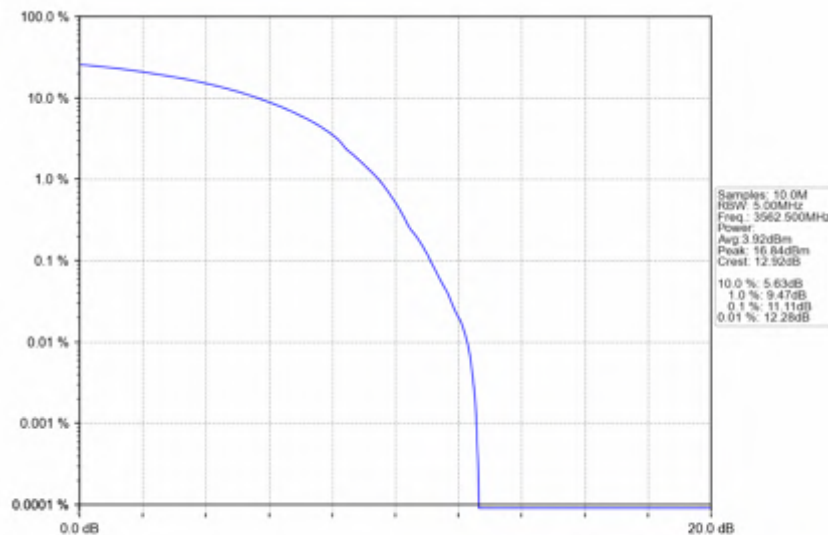
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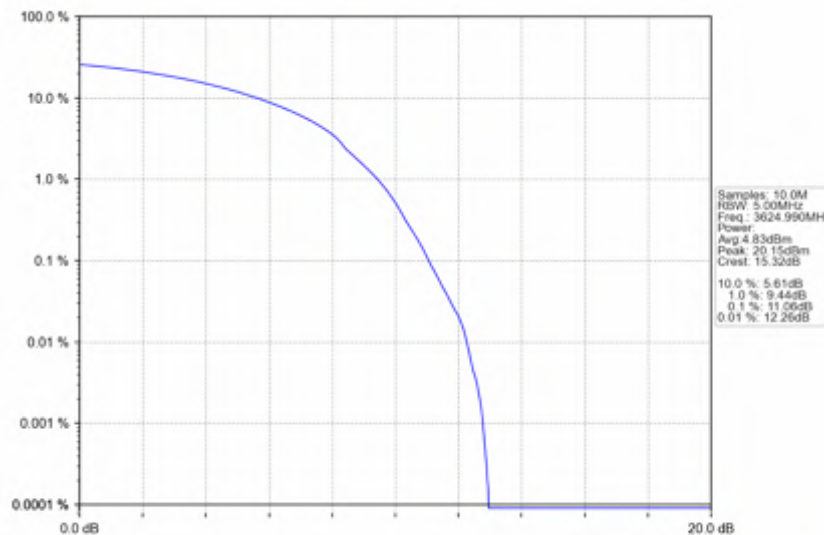
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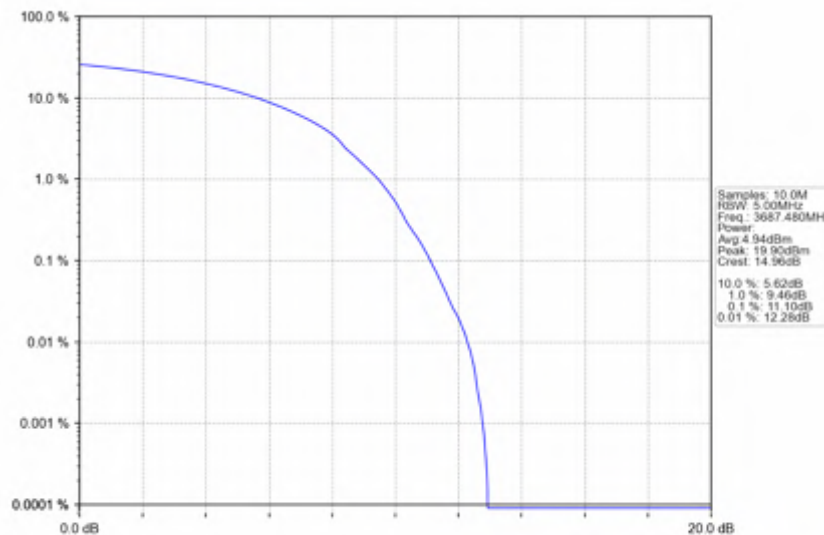
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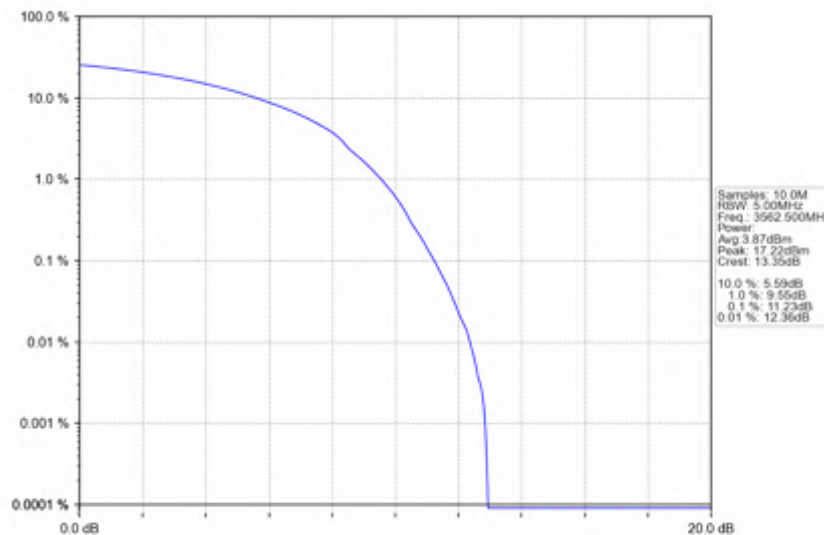
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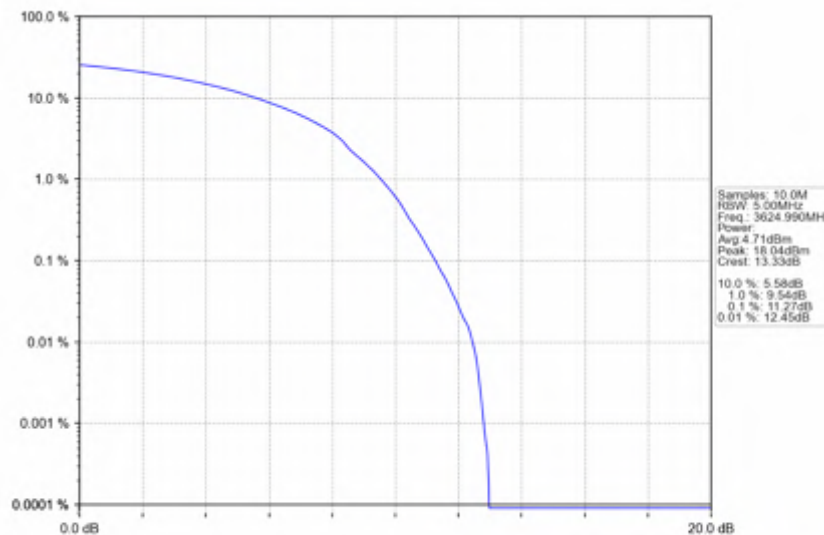
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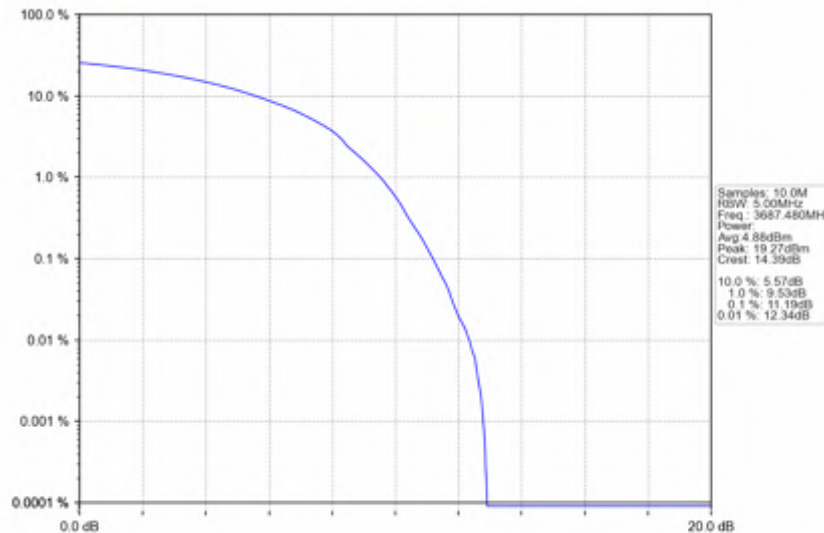


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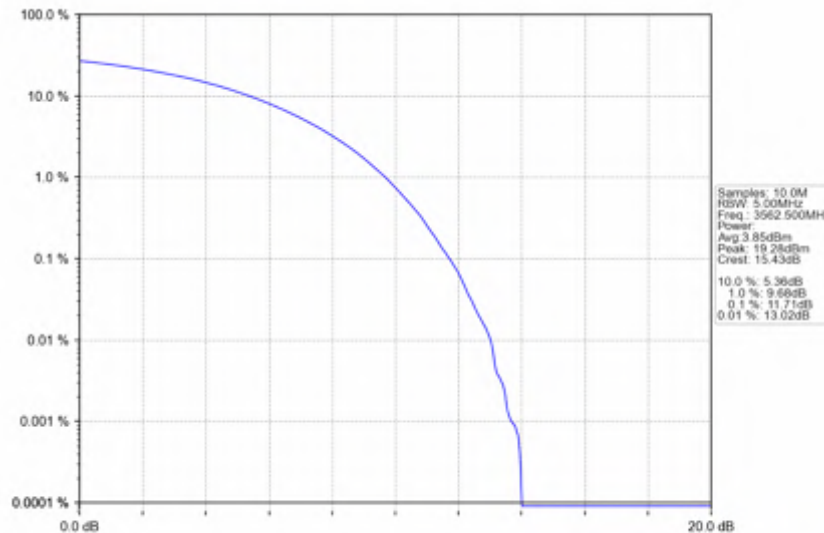
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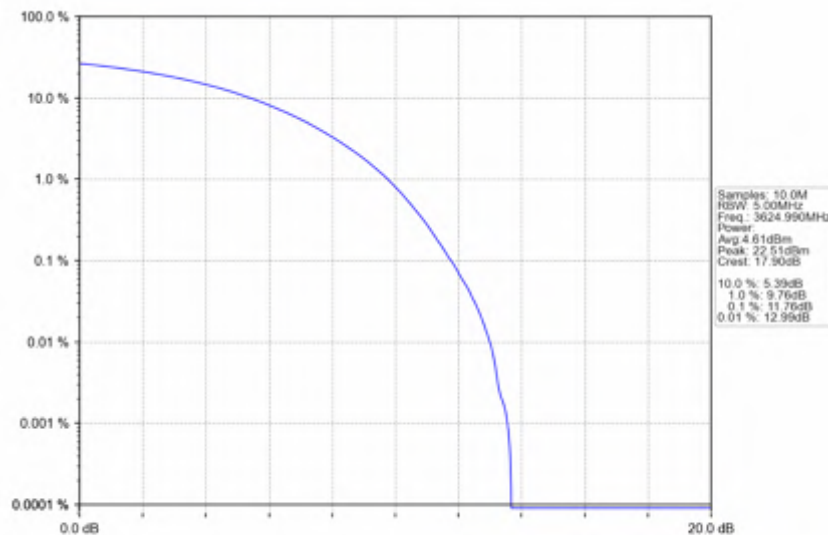
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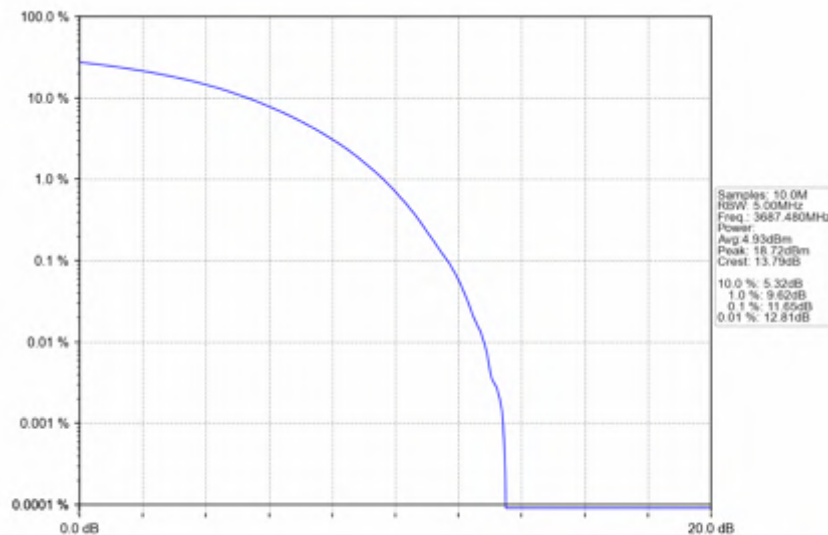
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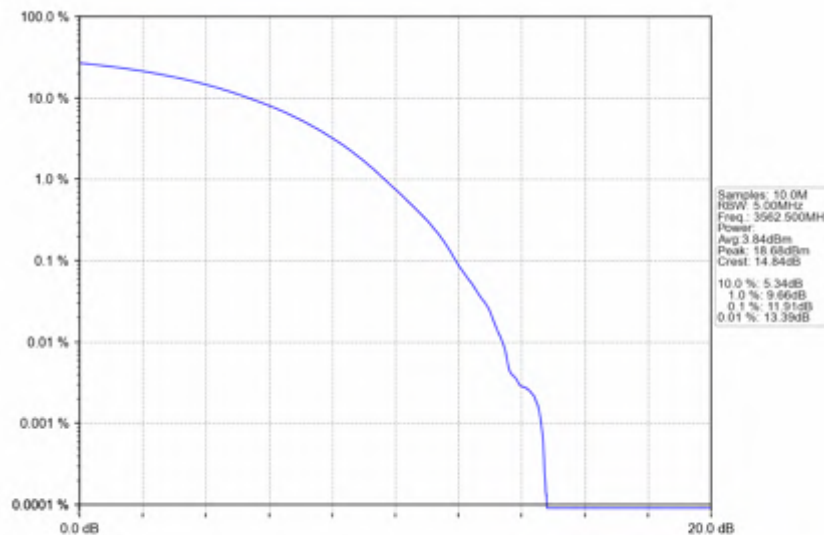
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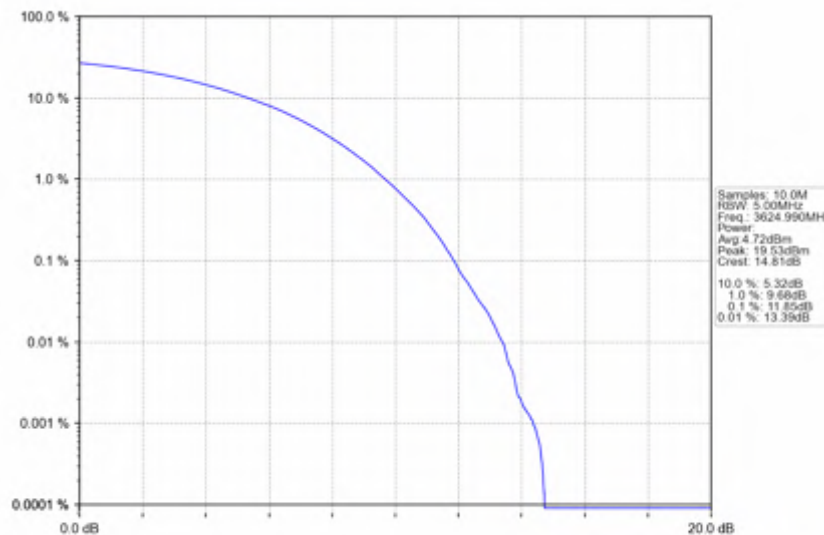
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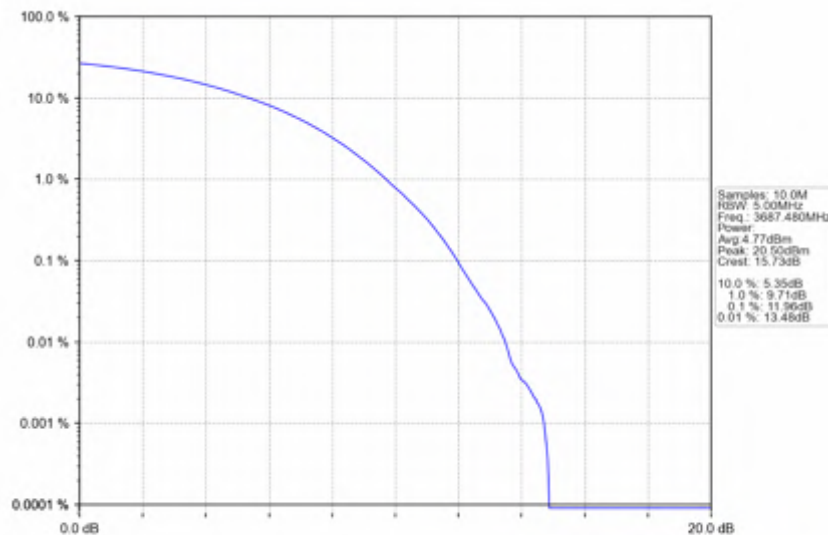
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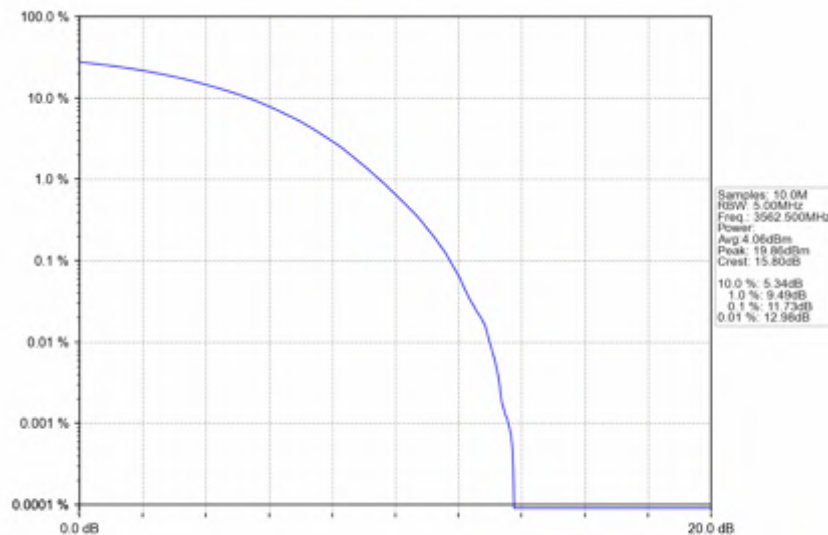
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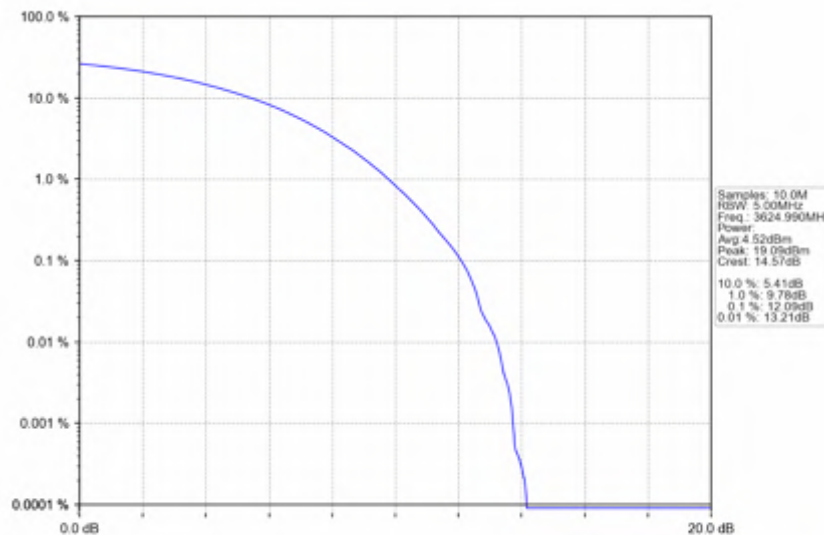
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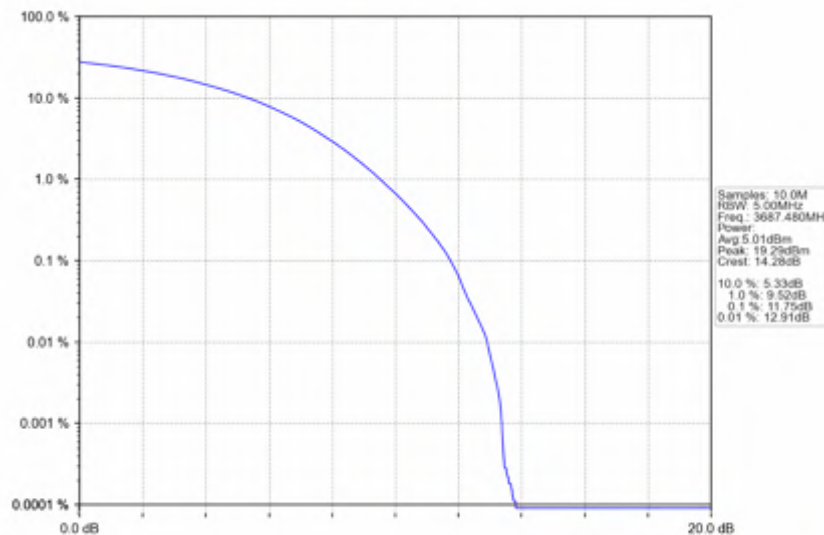
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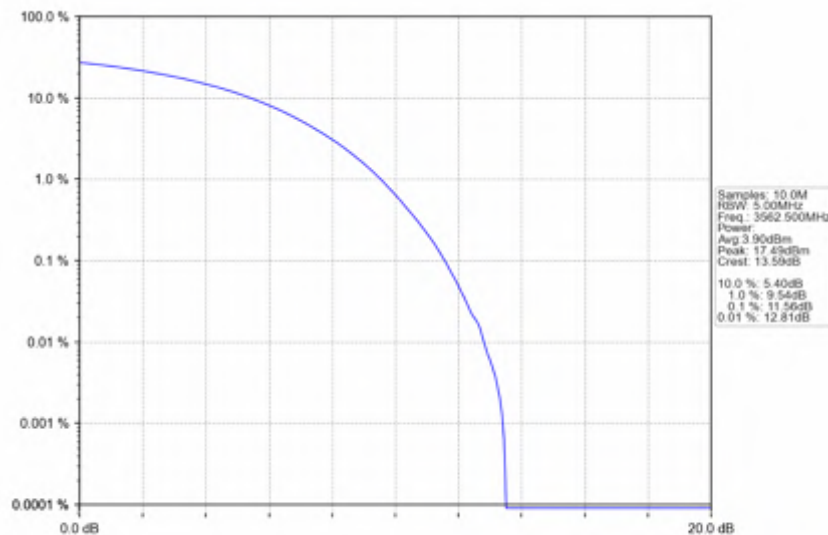


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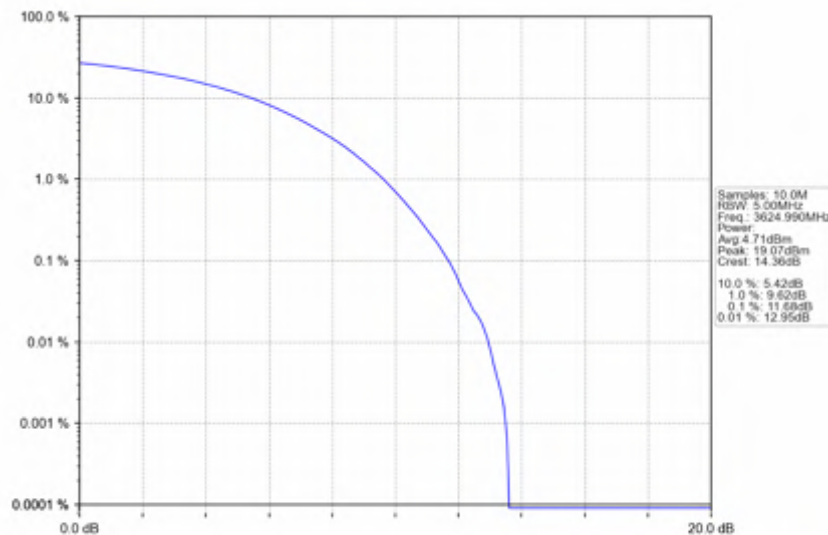
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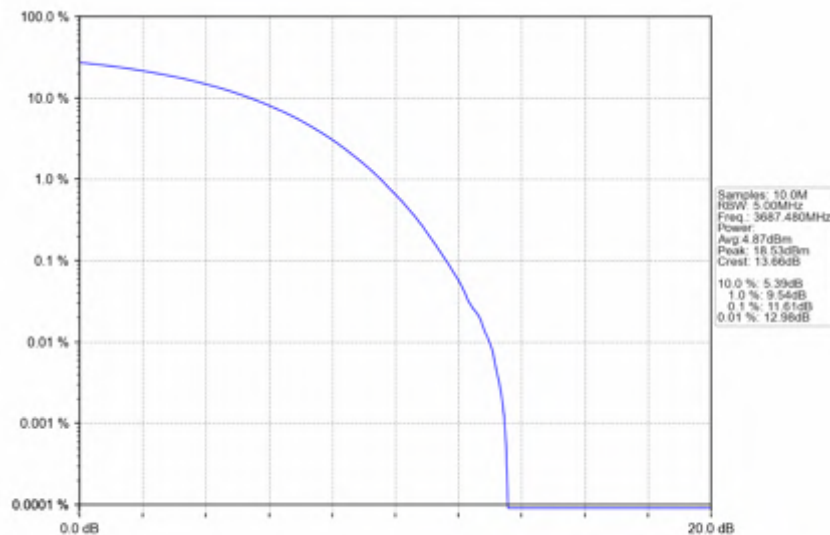
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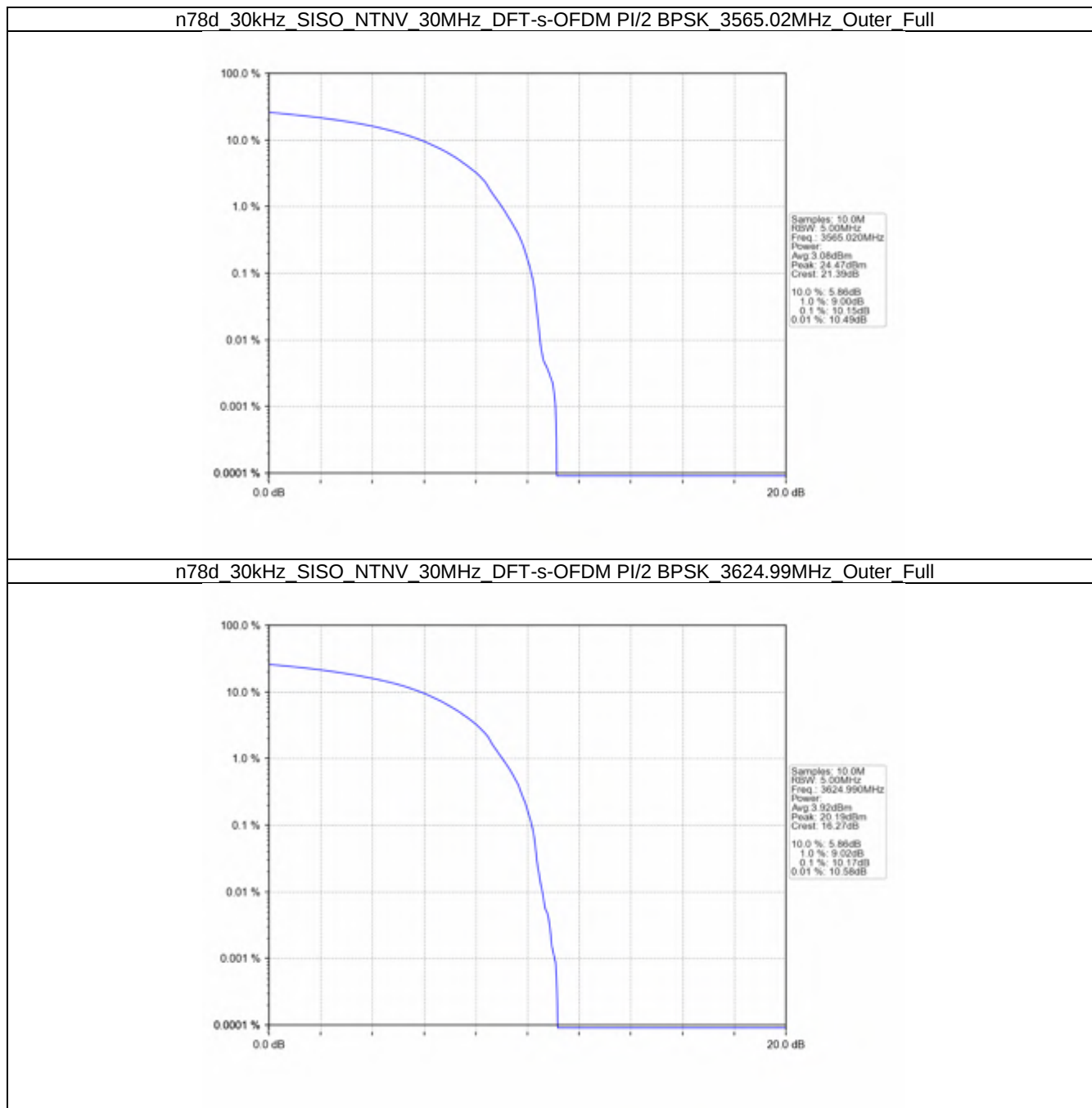
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8.12 30k_SISO_30MHz_NTNV

8.12.1 Test Result

5G NR n78d SCS=30kHz SISO 30MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3565.02	Outer_Full	10.15	/	/	<=13	Pass
	3624.99	Outer_Full	10.17	/	/	<=13	Pass
	3684.99	Outer_Full	10.19	/	/	<=13	Pass
DFT-s-OFDM QPSK	3565.02	Outer_Full	10.98	/	/	<=13	Pass
	3624.99	Outer_Full	10.77	/	/	<=13	Pass
	3684.99	Outer_Full	10.86	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3565.02	Outer_Full	11.11	/	/	<=13	Pass
	3624.99	Outer_Full	11.07	/	/	<=13	Pass
	3684.99	Outer_Full	11.04	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3565.02	Outer_Full	11.52	/	/	<=13	Pass
	3624.99	Outer_Full	11.47	/	/	<=13	Pass
	3684.99	Outer_Full	11.50	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3565.02	Outer_Full	11.33	/	/	<=13	Pass
	3624.99	Outer_Full	11.29	/	/	<=13	Pass
	3684.99	Outer_Full	11.37	/	/	<=13	Pass
CP-OFDM QPSK	3565.02	Outer_Full	11.83	/	/	<=13	Pass
	3624.99	Outer_Full	11.60	/	/	<=13	Pass
	3684.99	Outer_Full	11.54	/	/	<=13	Pass
CP-OFDM 16 QAM	3565.02	Outer_Full	11.60	/	/	<=13	Pass
	3624.99	Outer_Full	11.78	/	/	<=13	Pass
	3684.99	Outer_Full	11.75	/	/	<=13	Pass
CP-OFDM 64 QAM	3565.02	Outer_Full	11.76	/	/	<=13	Pass
	3624.99	Outer_Full	11.70	/	/	<=13	Pass
	3684.99	Outer_Full	11.65	/	/	<=13	Pass
CP-OFDM 256 QAM	3565.02	Outer_Full	11.92	/	/	<=13	Pass
	3624.99	Outer_Full	11.76	/	/	<=13	Pass
	3684.99	Outer_Full	11.81	/	/	<=13	Pass

8.12.2 Test Graph



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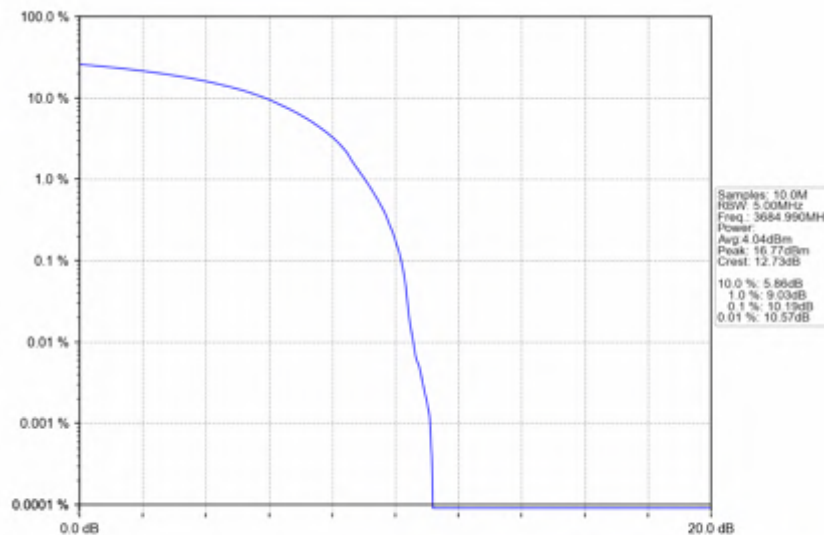
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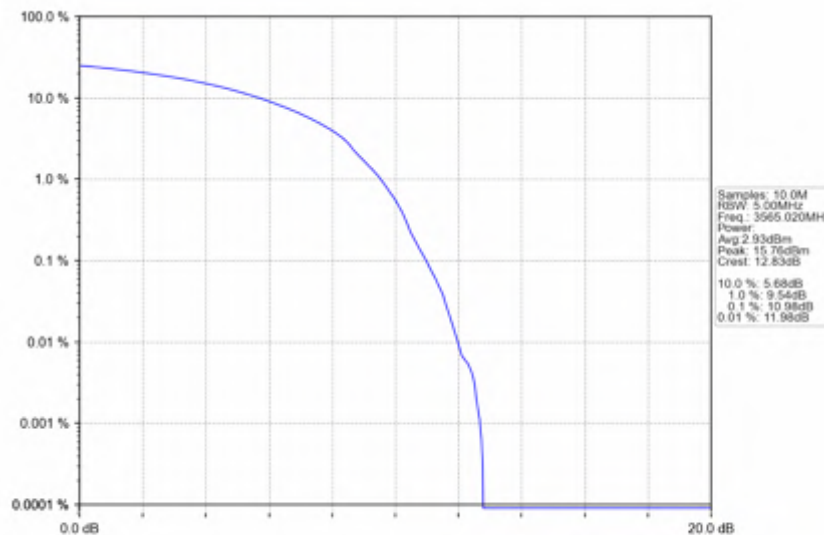
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n78d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_3565.02MHz_Outer_Full



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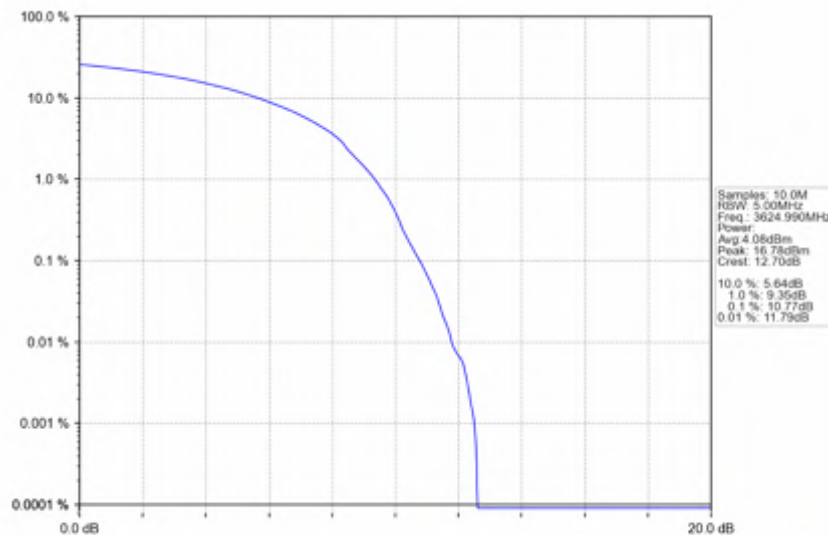
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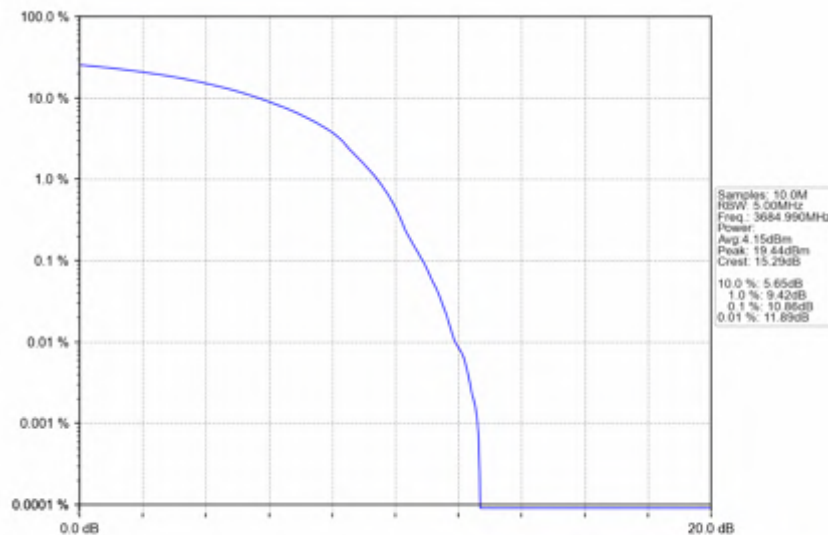
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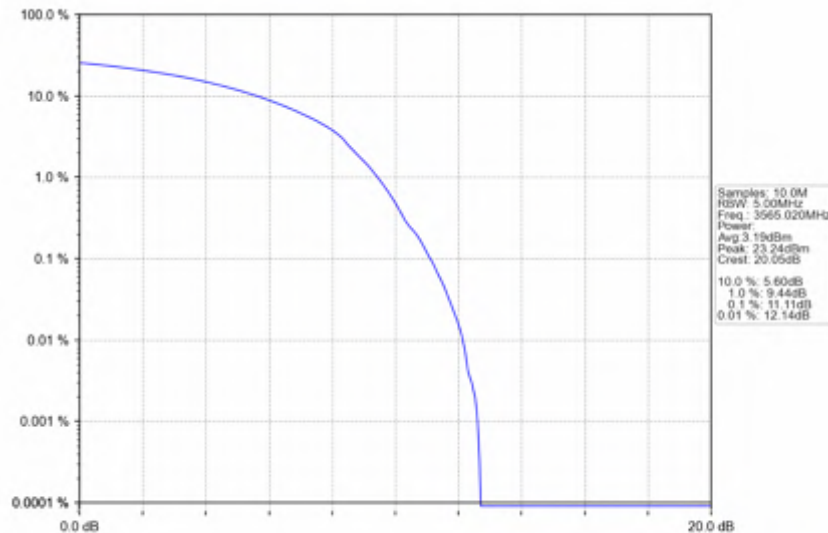
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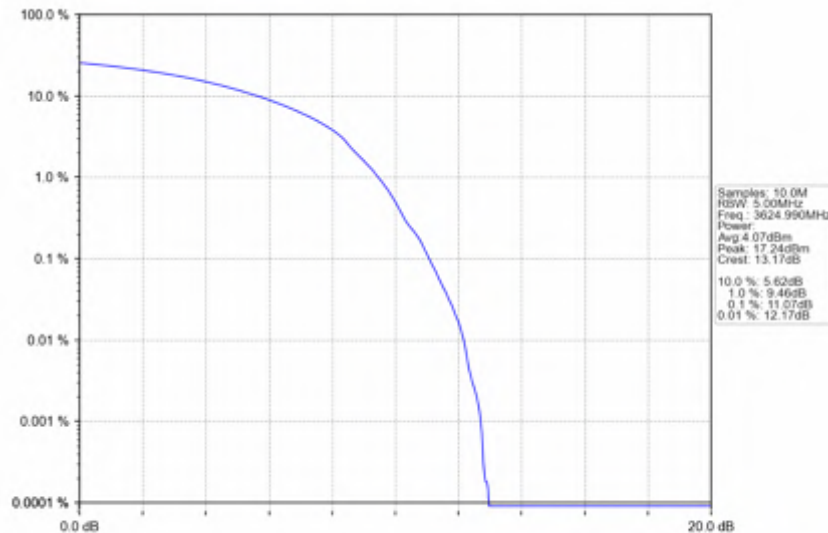
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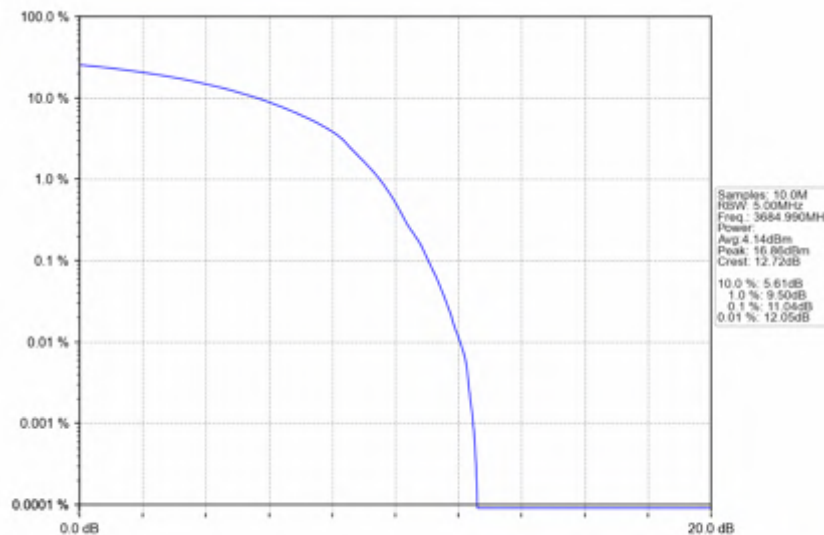
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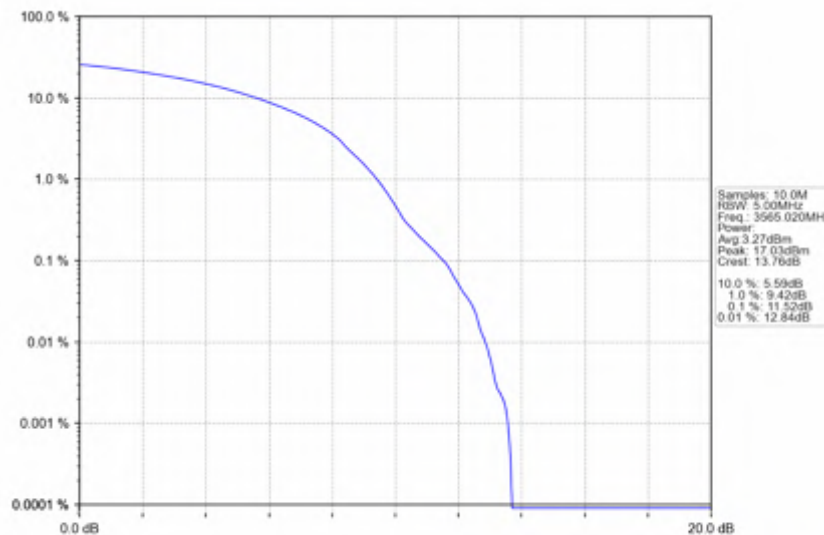
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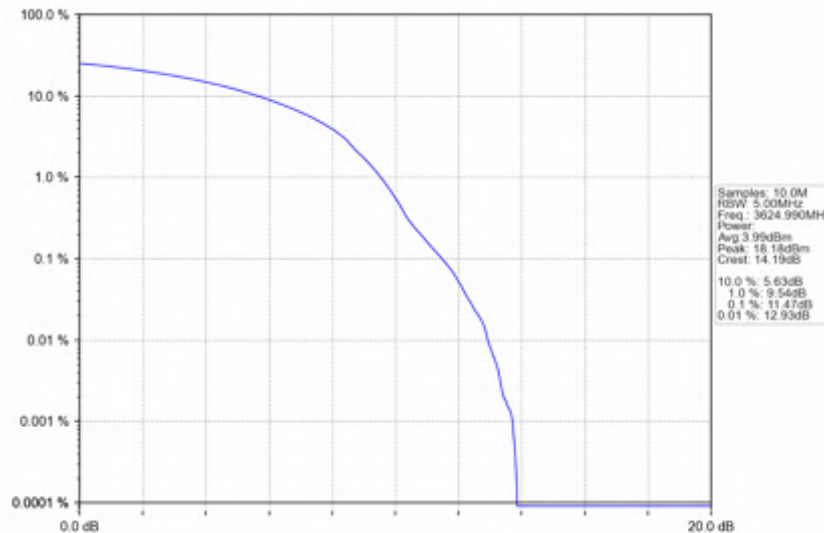
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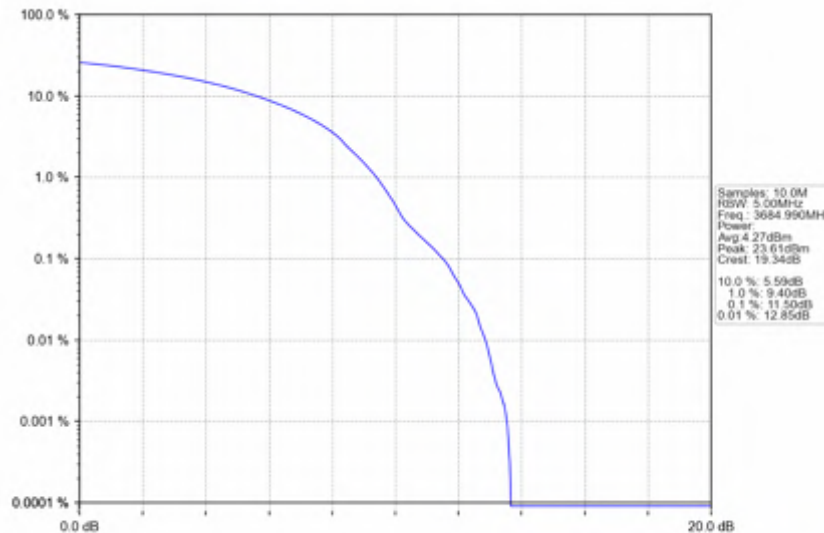
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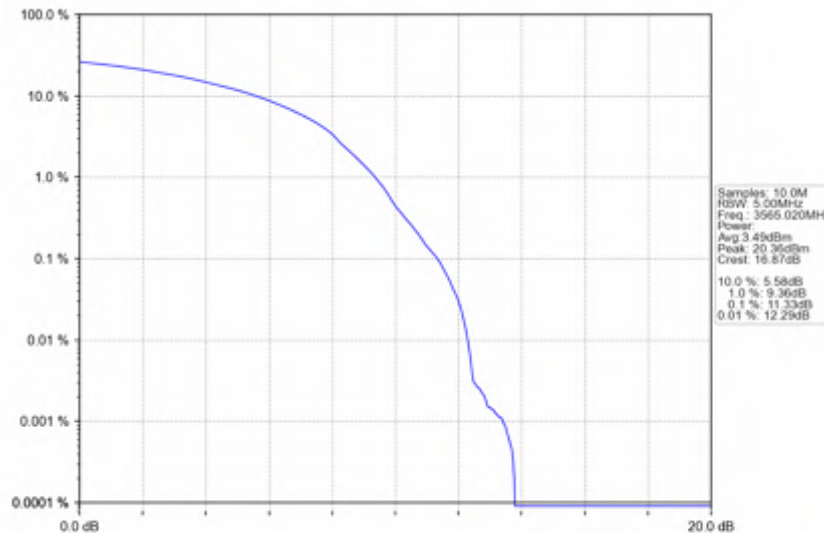
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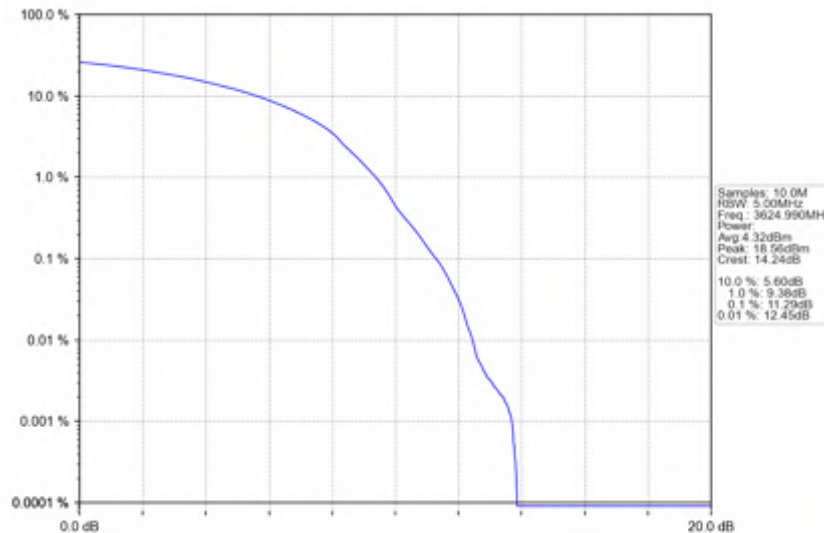
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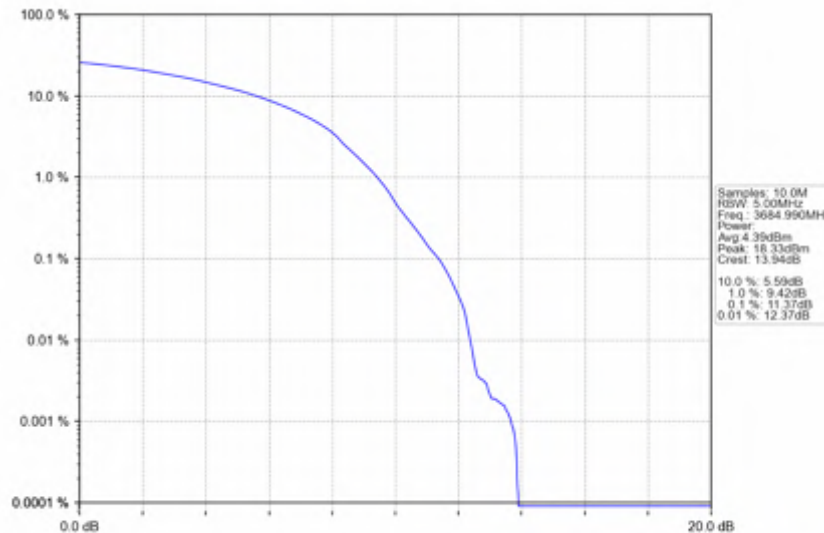
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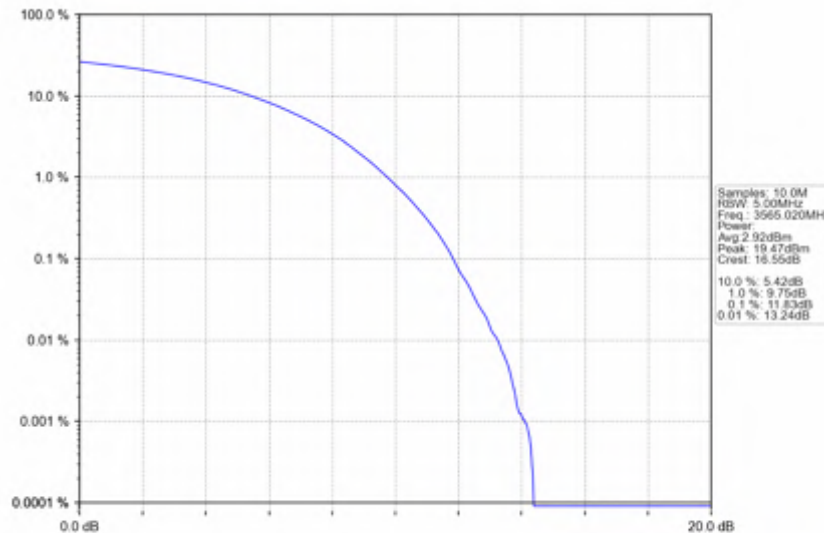
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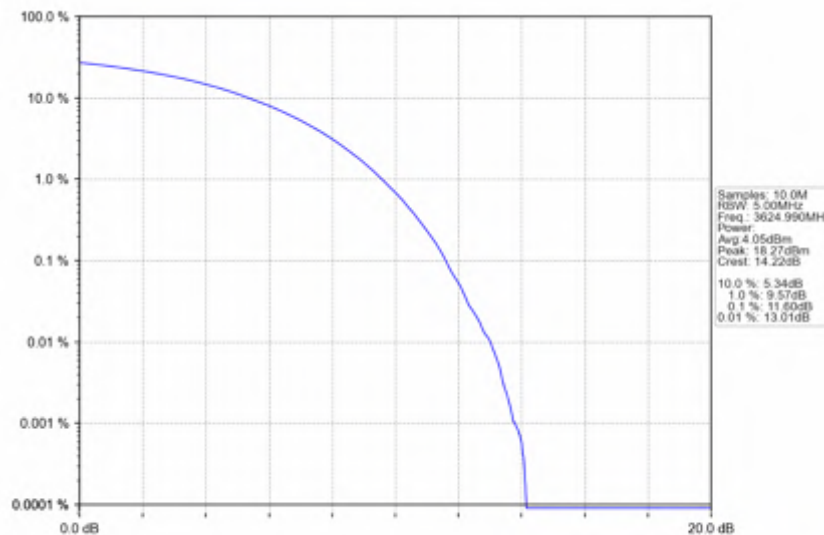


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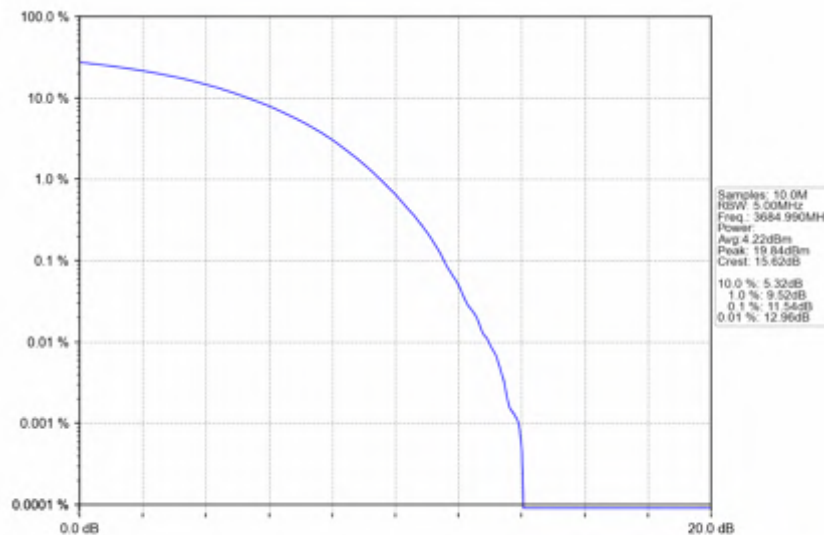
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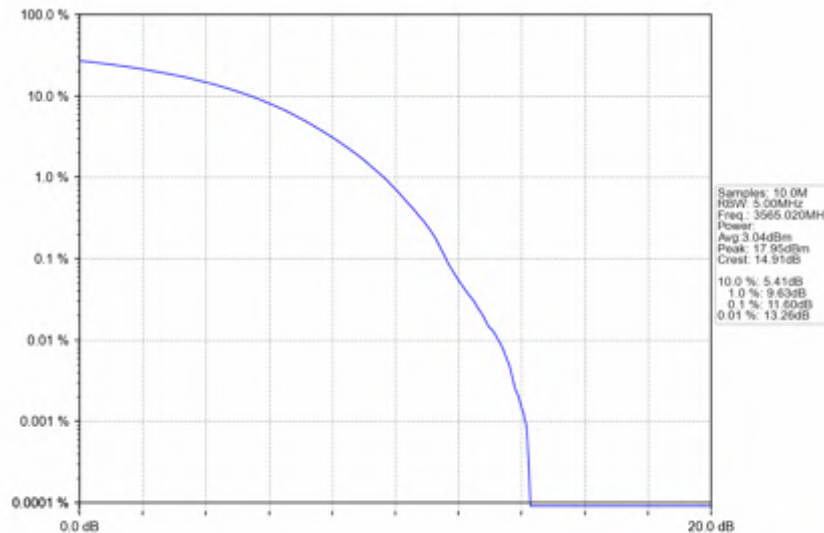
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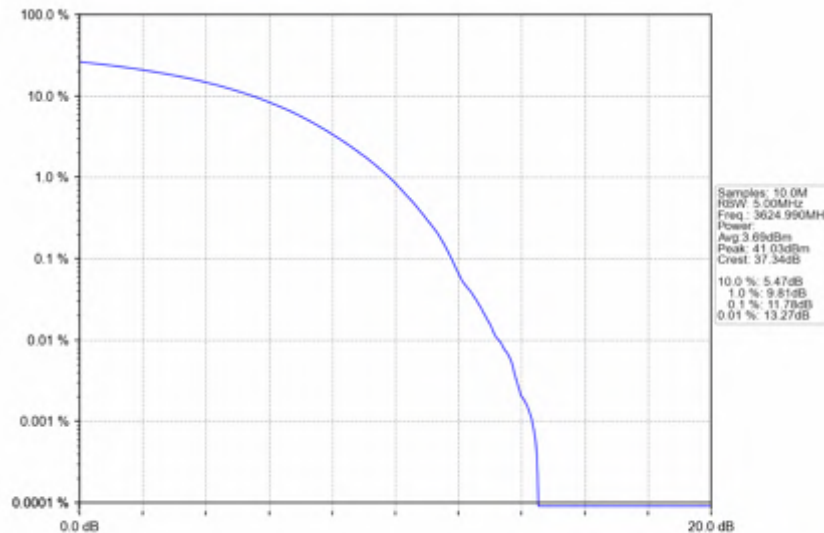
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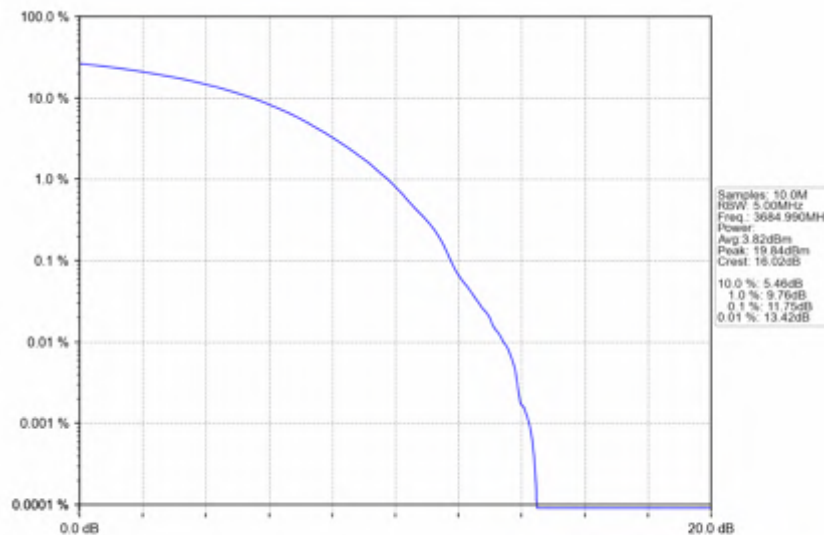
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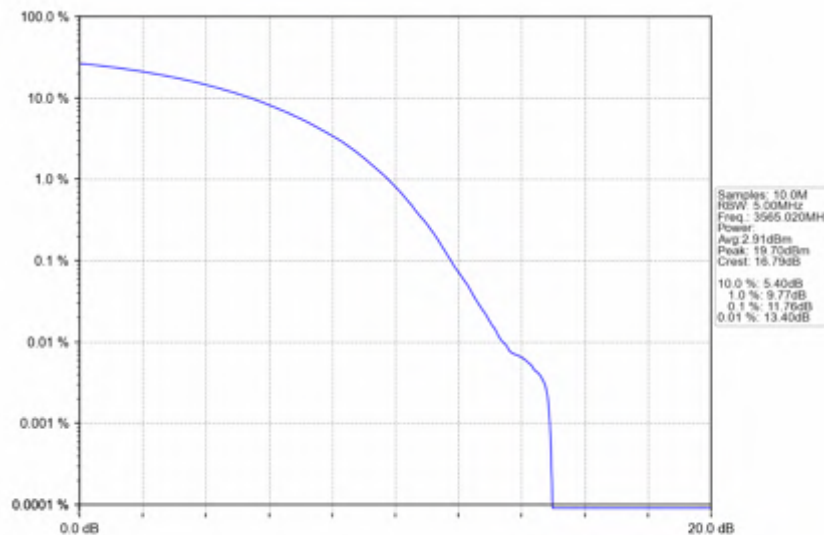
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n78d_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_3565.02MHz_Outer_Full



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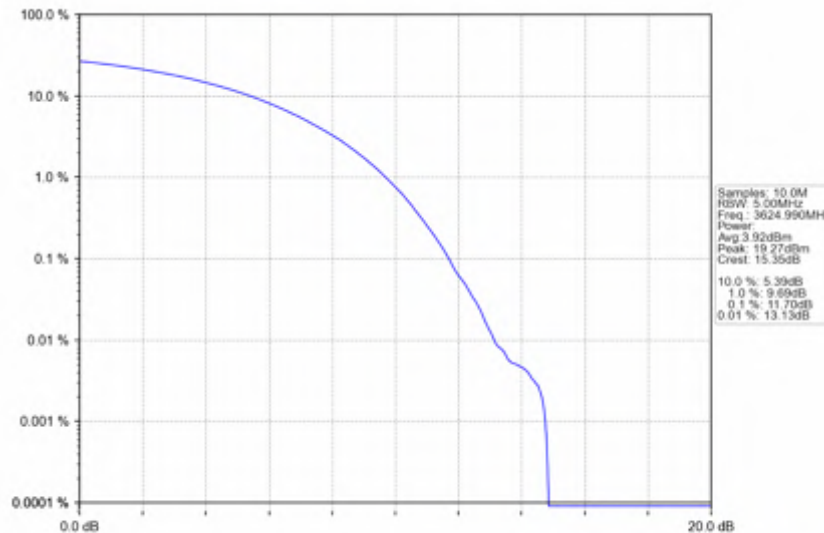
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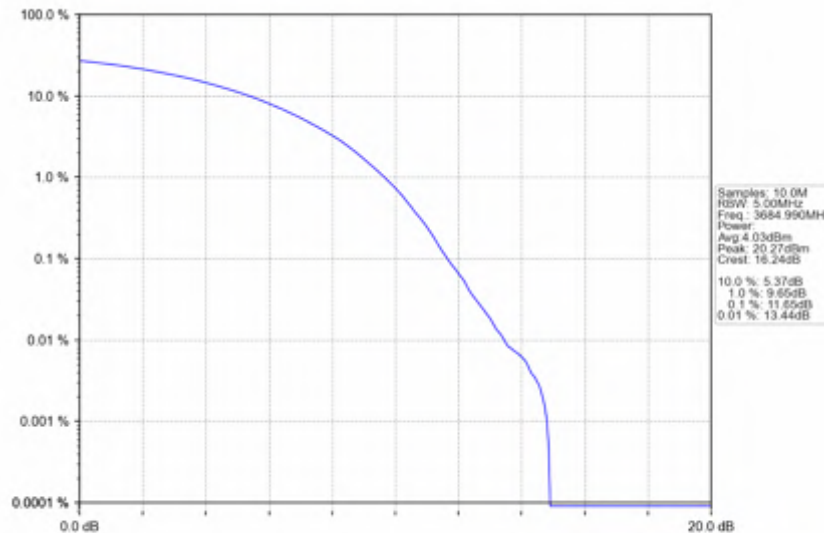
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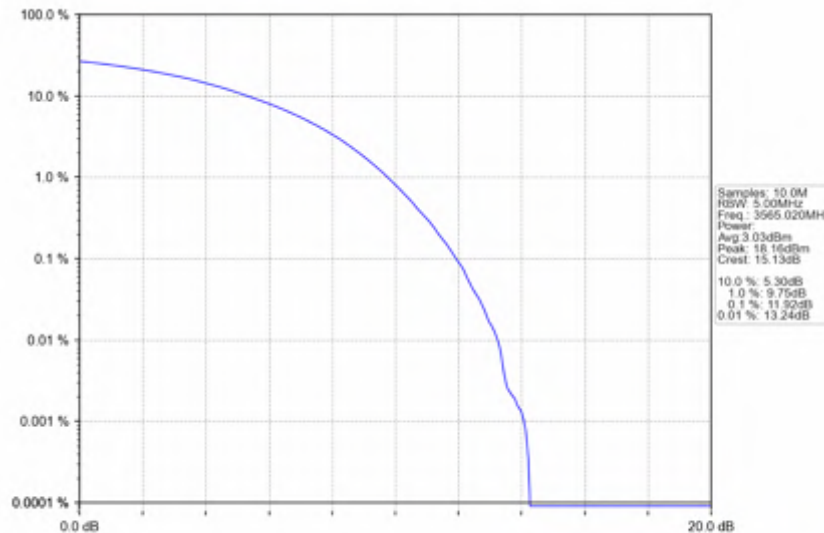
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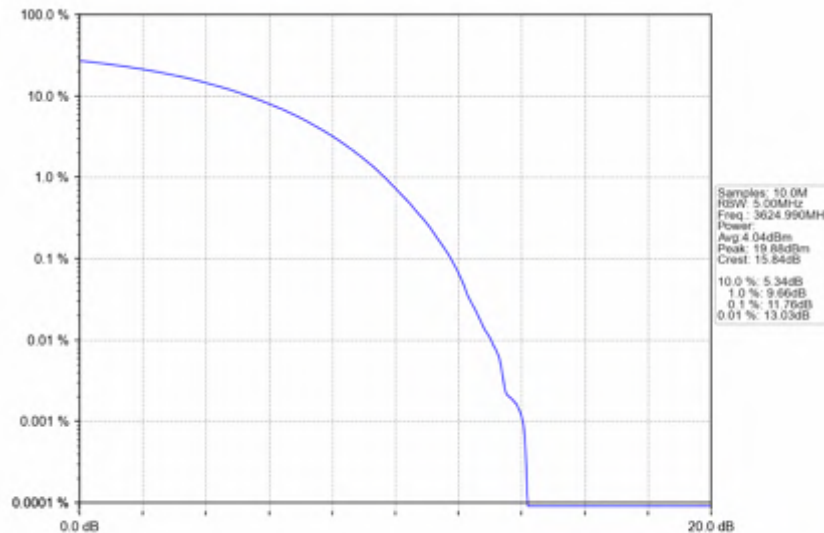
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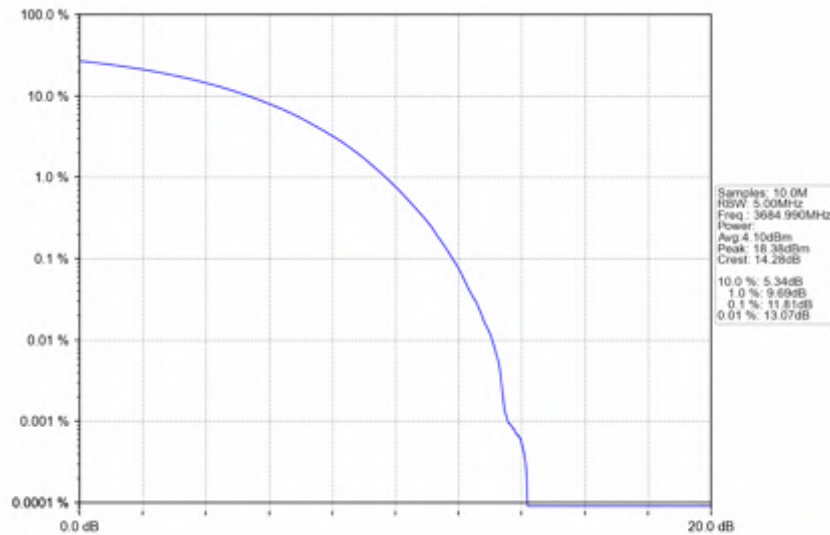
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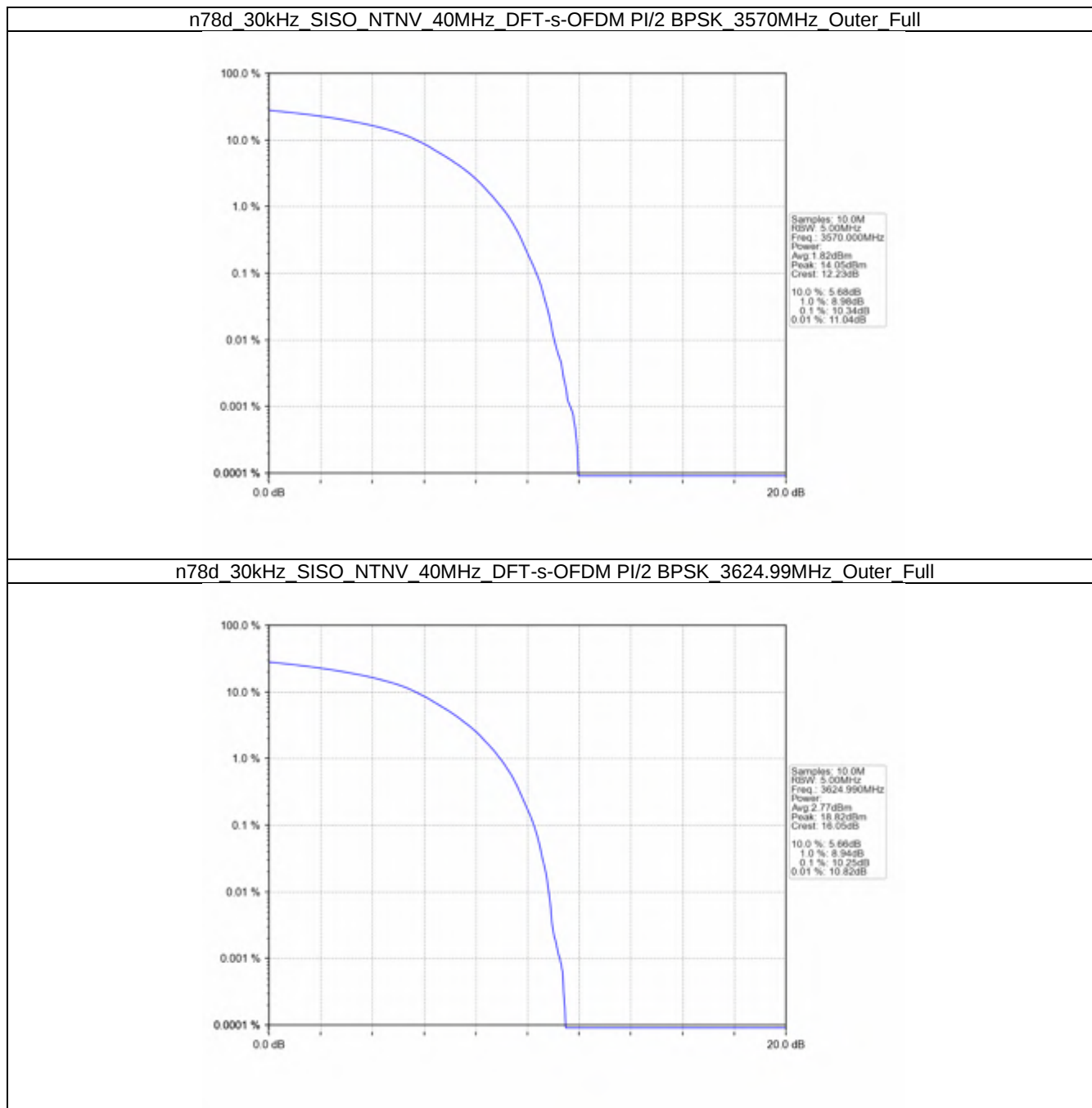
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8.13 30k_SISO_40MHz_NTNV

8.13.1 Test Result

5G NR n78d SCS=30kHz SISO 40MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3570	Outer_Full	10.34	/	/	<=13	Pass
	3624.99	Outer_Full	10.25	/	/	<=13	Pass
	3679.98	Outer_Full	10.30	/	/	<=13	Pass
DFT-s-OFDM QPSK	3570	Outer_Full	11.04	/	/	<=13	Pass
	3624.99	Outer_Full	11.11	/	/	<=13	Pass
	3679.98	Outer_Full	11.01	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3570	Outer_Full	11.41	/	/	<=13	Pass
	3624.99	Outer_Full	11.14	/	/	<=13	Pass
	3679.98	Outer_Full	11.32	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3570	Outer_Full	10.82	/	/	<=13	Pass
	3624.99	Outer_Full	11.01	/	/	<=13	Pass
	3679.98	Outer_Full	11.14	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3570	Outer_Full	11.29	/	/	<=13	Pass
	3624.99	Outer_Full	11.30	/	/	<=13	Pass
	3679.98	Outer_Full	11.36	/	/	<=13	Pass
CP-OFDM QPSK	3570	Outer_Full	11.85	/	/	<=13	Pass
	3624.99	Outer_Full	11.65	/	/	<=13	Pass
	3679.98	Outer_Full	11.70	/	/	<=13	Pass
CP-OFDM 16 QAM	3570	Outer_Full	11.93	/	/	<=13	Pass
	3624.99	Outer_Full	12.02	/	/	<=13	Pass
	3679.98	Outer_Full	11.90	/	/	<=13	Pass
CP-OFDM 64 QAM	3570	Outer_Full	11.77	/	/	<=13	Pass
	3624.99	Outer_Full	11.92	/	/	<=13	Pass
	3679.98	Outer_Full	11.97	/	/	<=13	Pass
CP-OFDM 256 QAM	3570	Outer_Full	11.48	/	/	<=13	Pass
	3624.99	Outer_Full	11.45	/	/	<=13	Pass
	3679.98	Outer_Full	11.46	/	/	<=13	Pass

8.13.2 Test Graph



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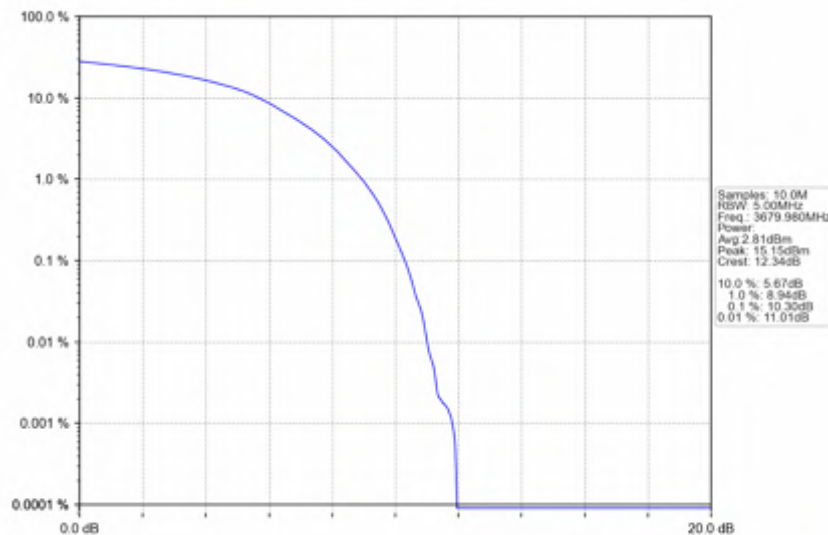
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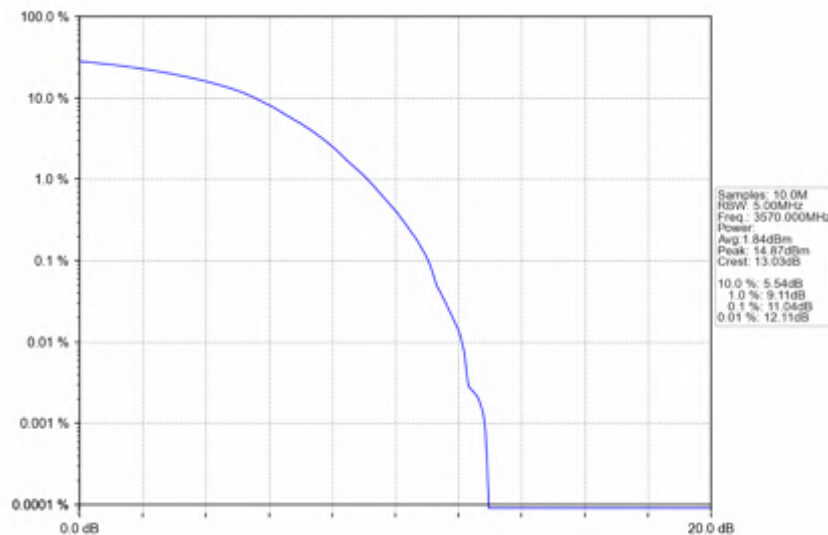
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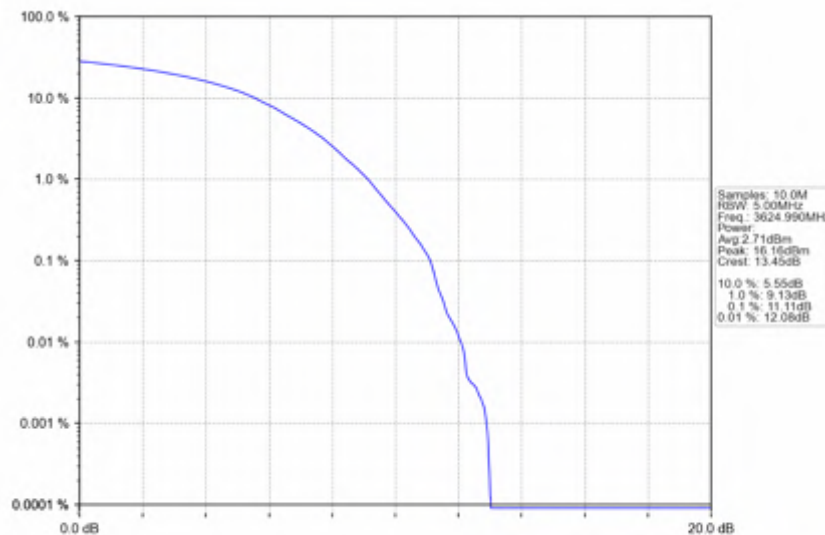
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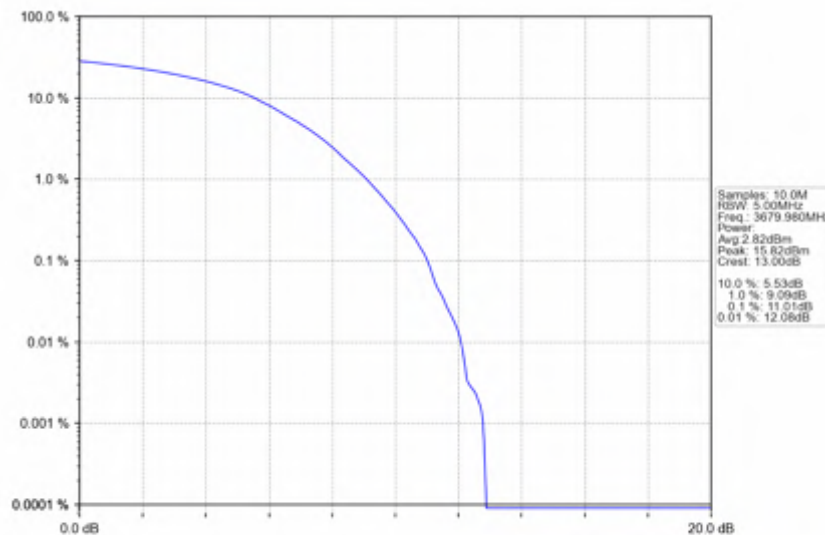
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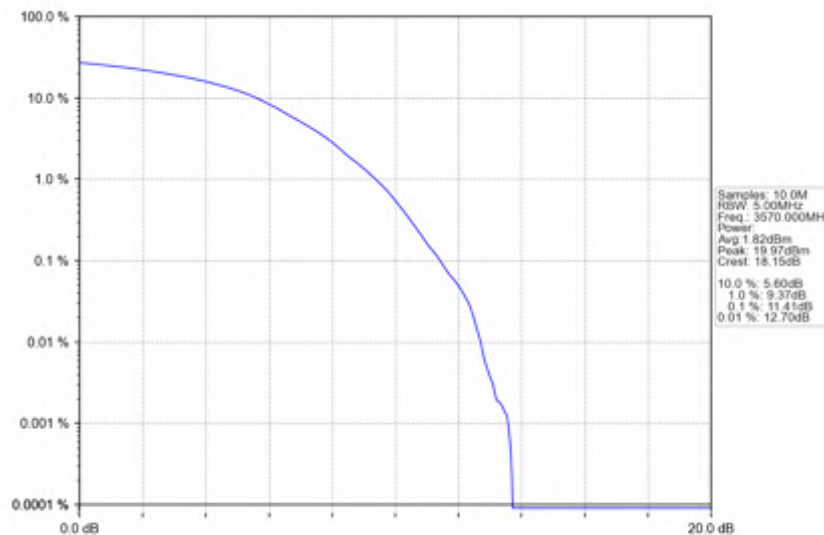
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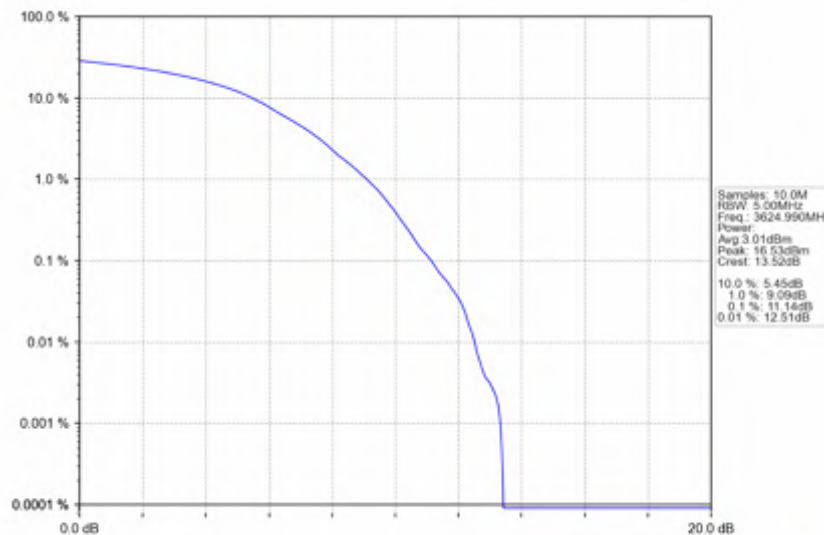
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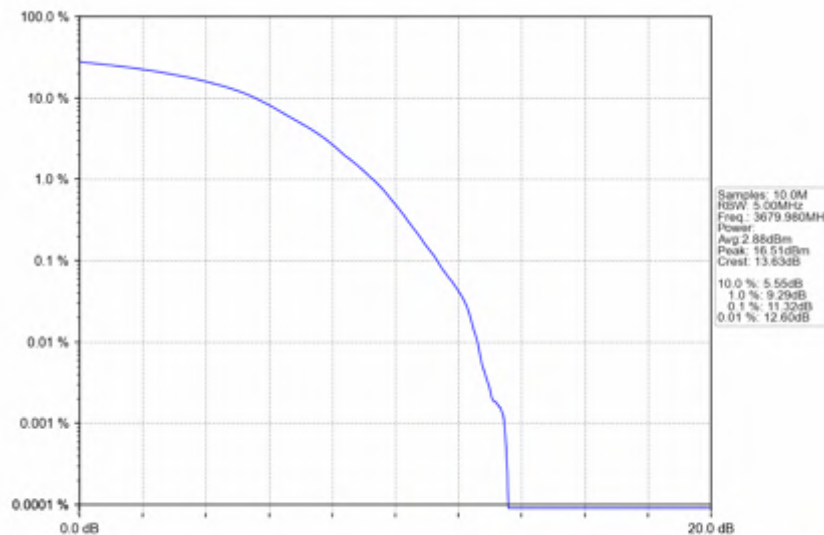
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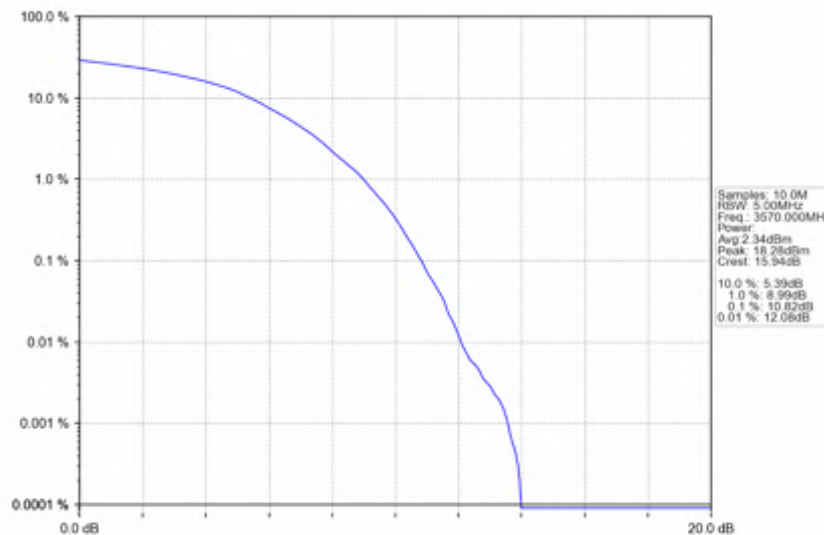
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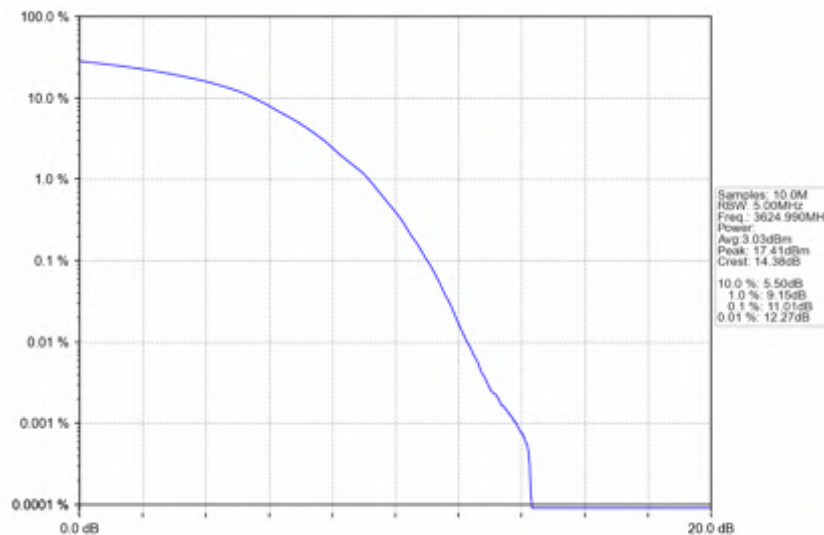


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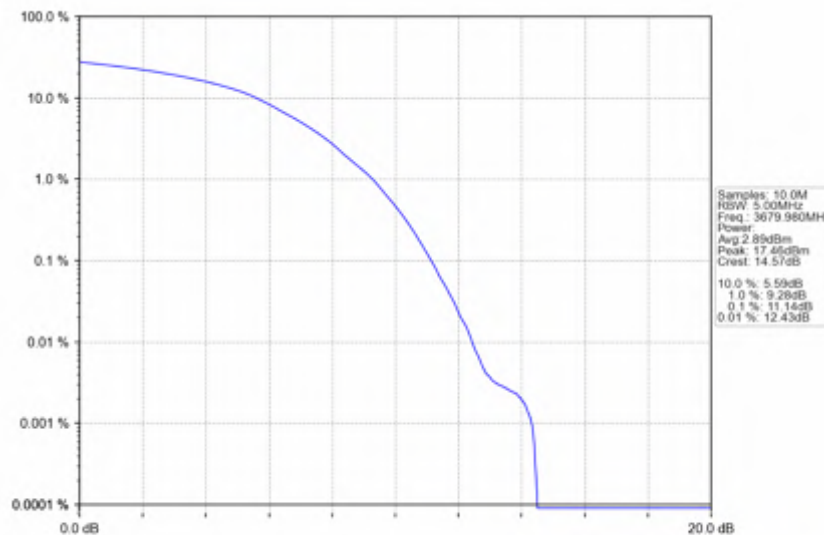
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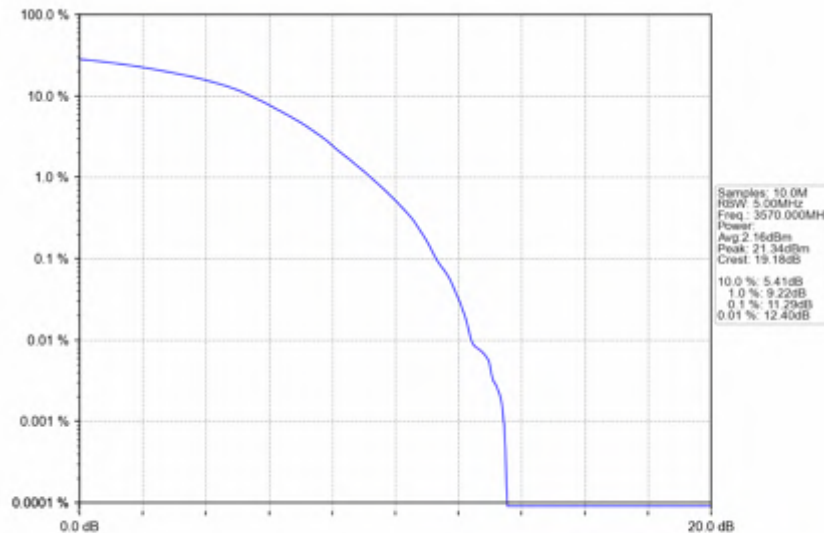


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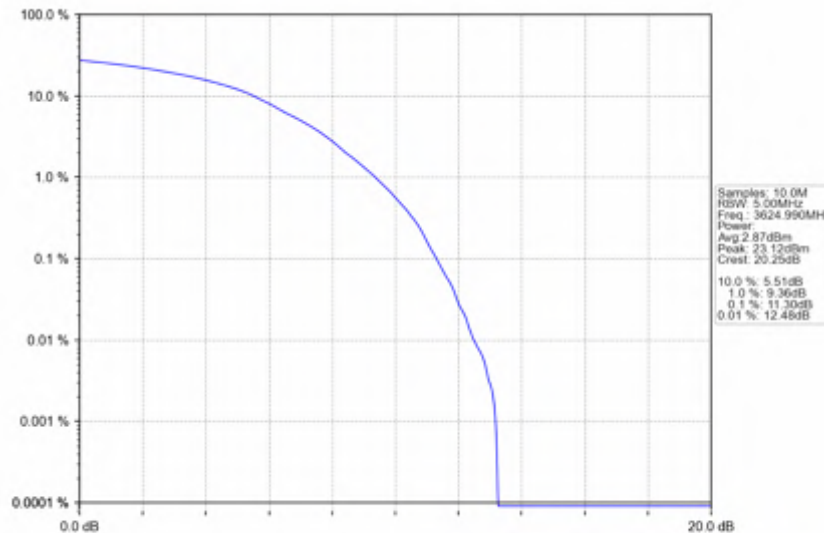
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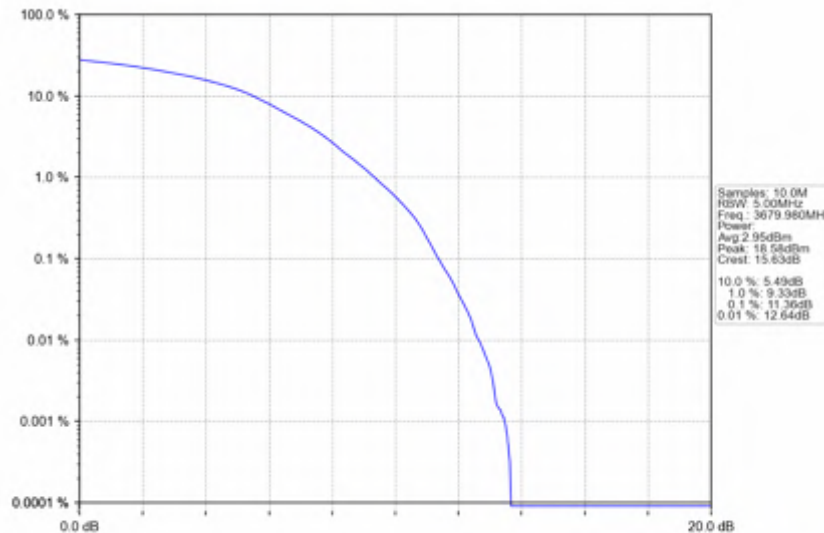
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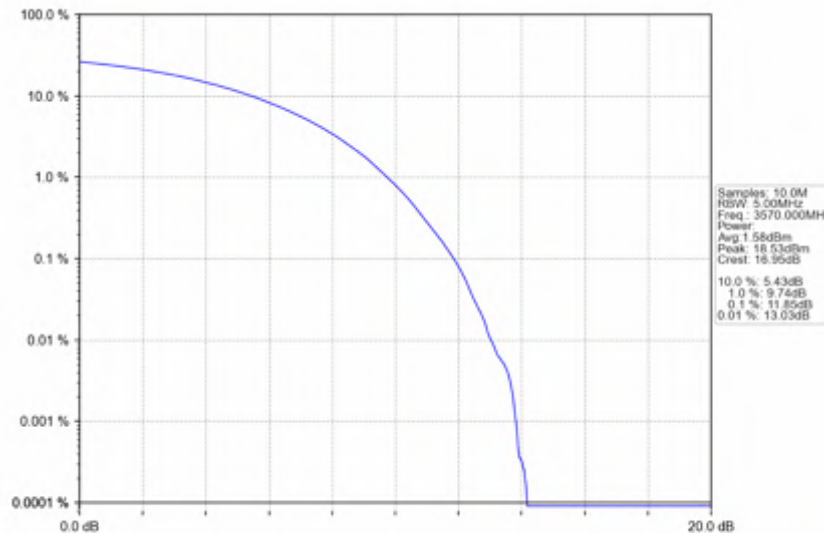
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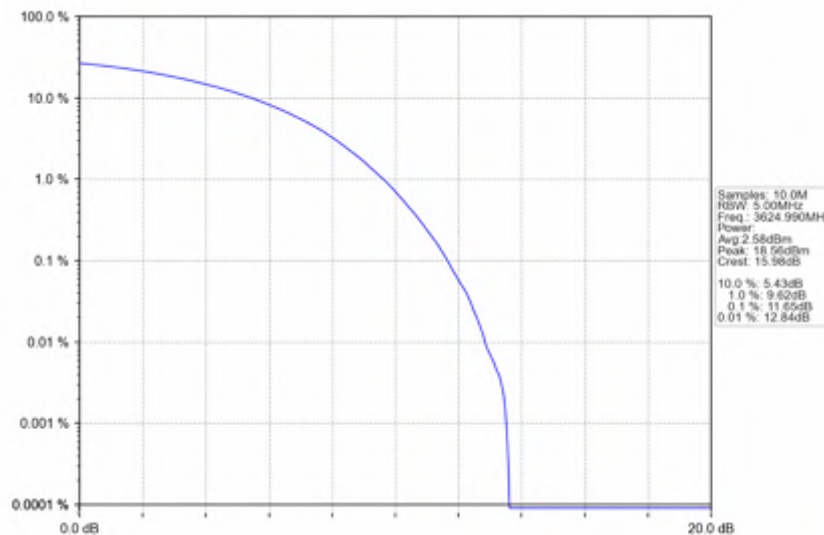
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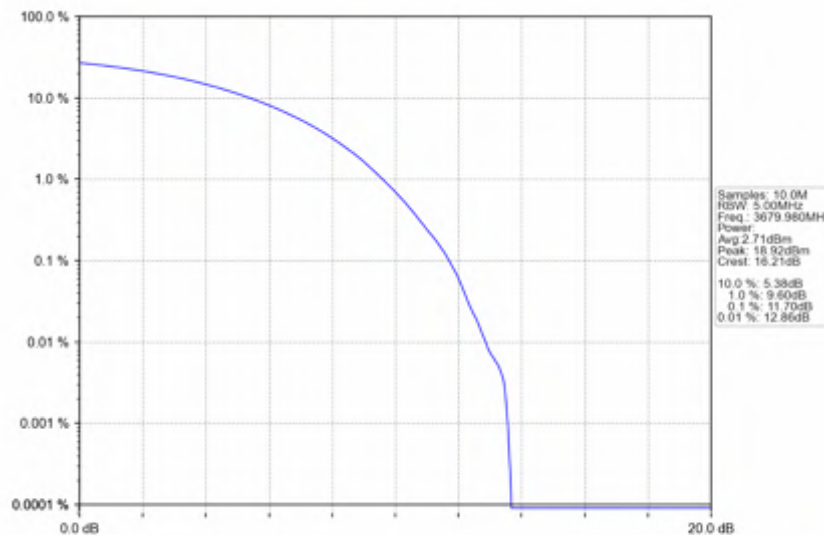
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n78d_30kHz_SISO_NTNV_40MHz_CP-OFDM_QPSK_3624.99MHz_Outer_Full



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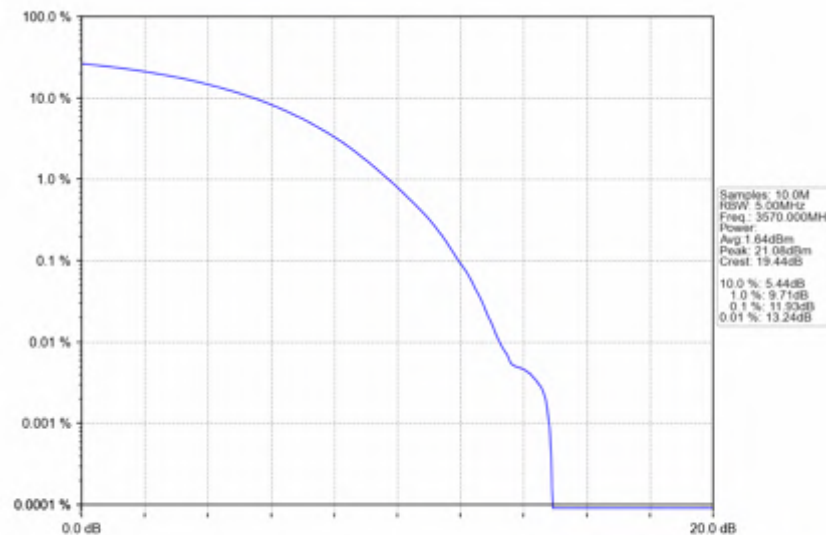
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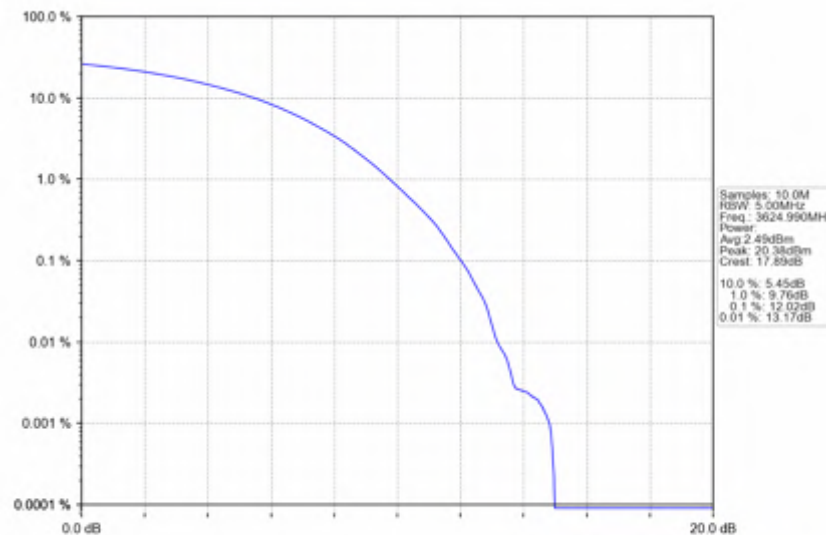
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n78d_30kHz_SISO_NTNV_40MHz_CP-OFDM_16_QAM_3570MHz_Outer_Full



n78d_30kHz_SISO_NTNV_40MHz_CP-OFDM_16_QAM_3624.99MHz_Outer_Full



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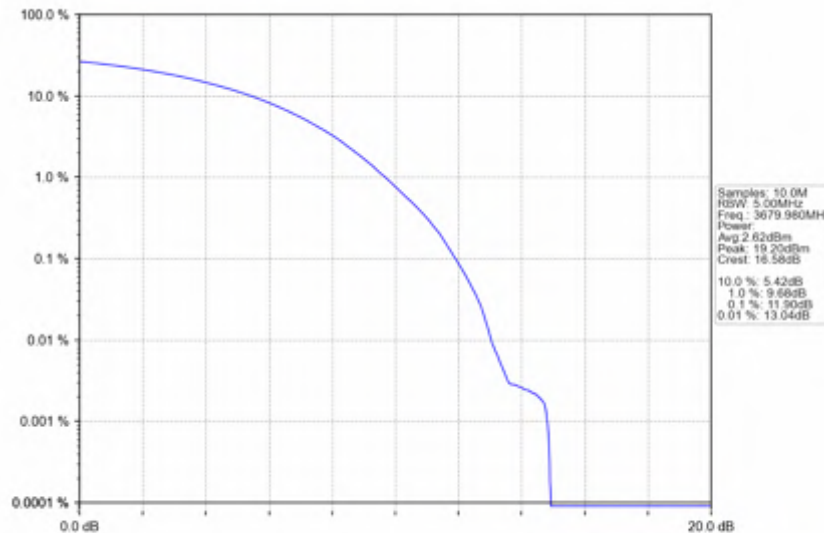
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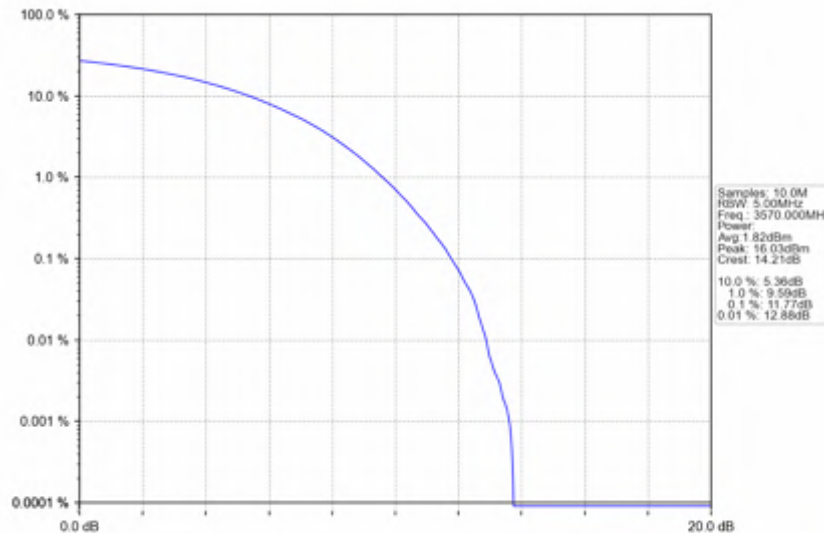
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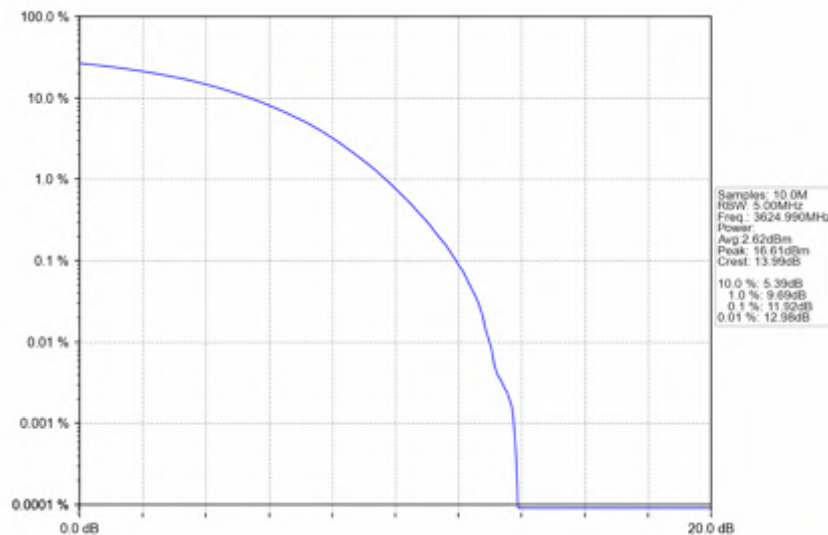
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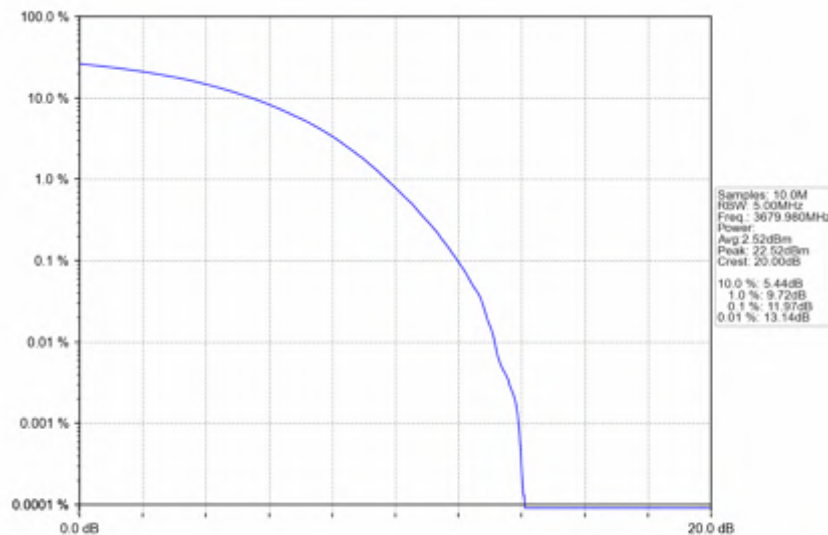
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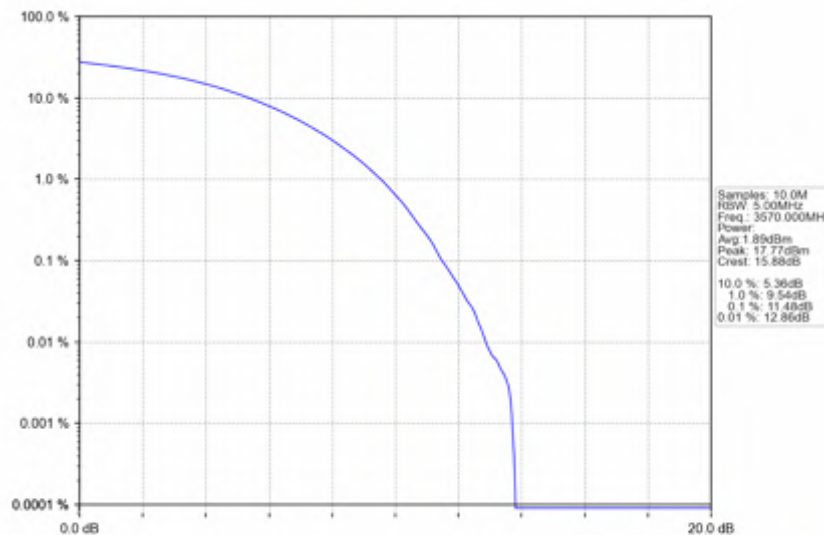


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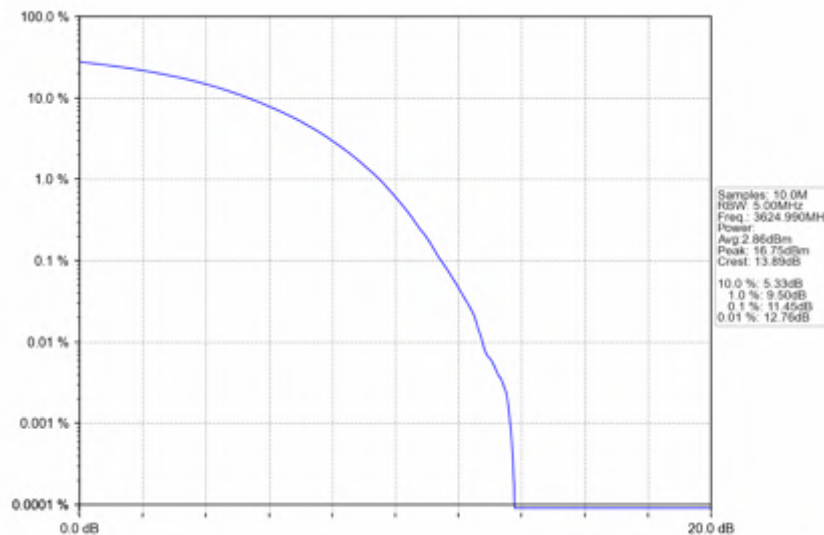
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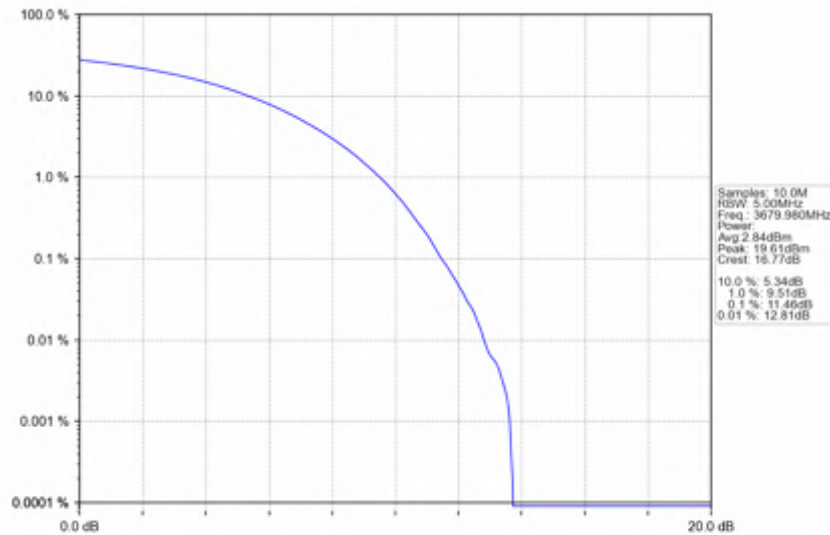
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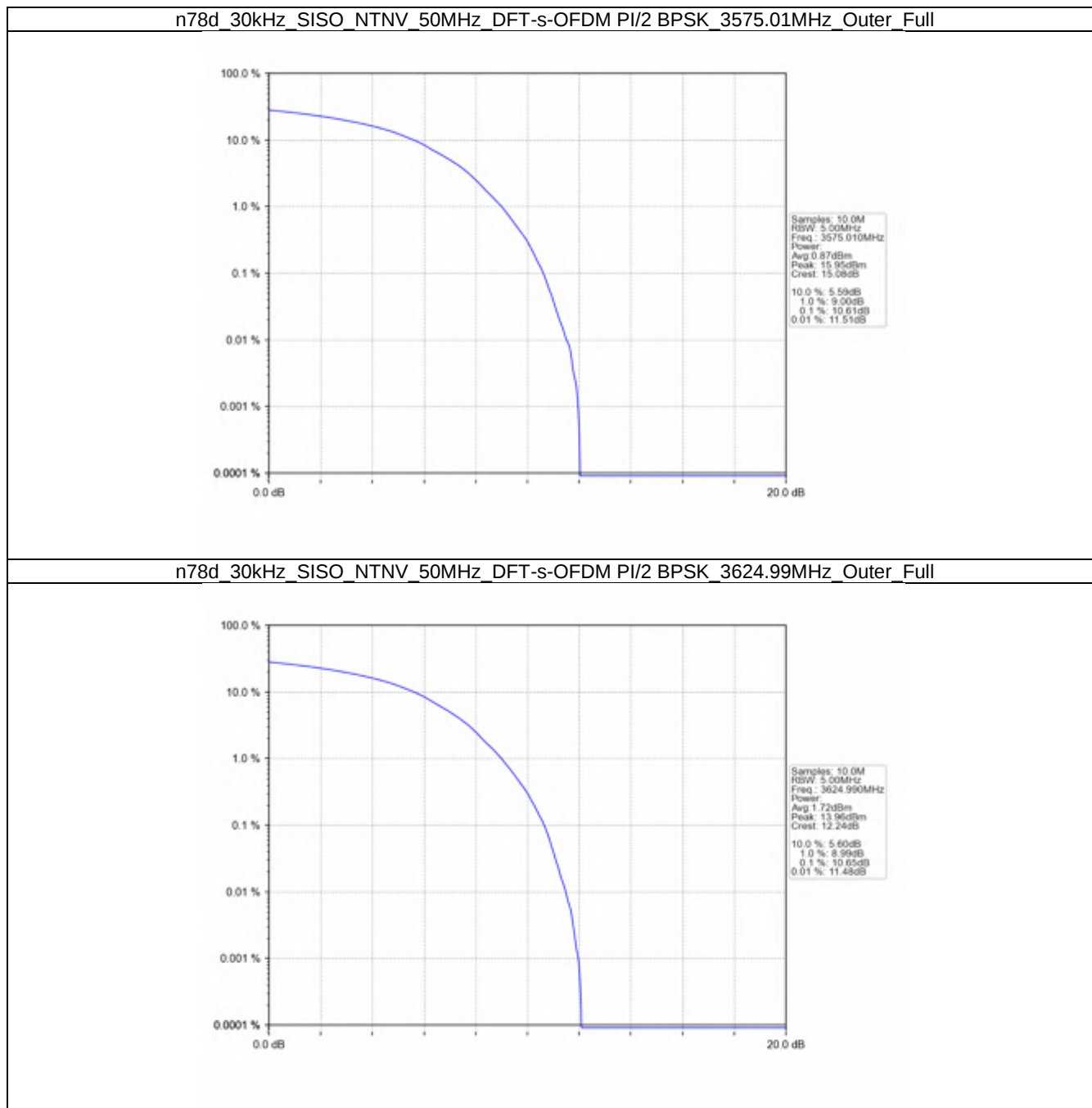
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8.14 30k_SISO_50MHz_NTNV

8.14.1 Test Result

5G NR n78d SCS=30kHz SISO 50MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3575.01	Outer_Full	10.61	/	/	<=13	Pass
	3624.99	Outer_Full	10.65	/	/	<=13	Pass
	3675	Outer_Full	10.55	/	/	<=13	Pass
DFT-s-OFDM QPSK	3575.01	Outer_Full	11.19	/	/	<=13	Pass
	3624.99	Outer_Full	11.07	/	/	<=13	Pass
	3675	Outer_Full	11.28	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3575.01	Outer_Full	11.11	/	/	<=13	Pass
	3624.99	Outer_Full	11.28	/	/	<=13	Pass
	3675	Outer_Full	11.14	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3575.01	Outer_Full	11.34	/	/	<=13	Pass
	3624.99	Outer_Full	11.32	/	/	<=13	Pass
	3675	Outer_Full	11.37	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3575.01	Outer_Full	11.26	/	/	<=13	Pass
	3624.99	Outer_Full	11.42	/	/	<=13	Pass
	3675	Outer_Full	11.33	/	/	<=13	Pass
CP-OFDM QPSK	3575.01	Outer_Full	11.90	/	/	<=13	Pass
	3624.99	Outer_Full	12.03	/	/	<=13	Pass
	3675	Outer_Full	11.61	/	/	<=13	Pass
CP-OFDM 16 QAM	3575.01	Outer_Full	11.68	/	/	<=13	Pass
	3624.99	Outer_Full	11.96	/	/	<=13	Pass
	3675	Outer_Full	11.96	/	/	<=13	Pass
CP-OFDM 64 QAM	3575.01	Outer_Full	11.93	/	/	<=13	Pass
	3624.99	Outer_Full	11.52	/	/	<=13	Pass
	3675	Outer_Full	11.87	/	/	<=13	Pass
CP-OFDM 256 QAM	3575.01	Outer_Full	11.75	/	/	<=13	Pass
	3624.99	Outer_Full	11.96	/	/	<=13	Pass
	3675	Outer_Full	11.76	/	/	<=13	Pass

8.14.2 Test Graph



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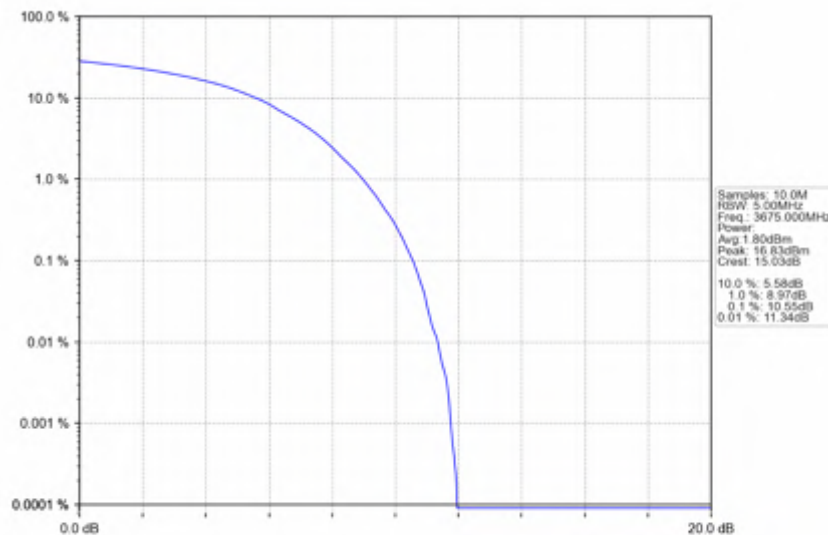
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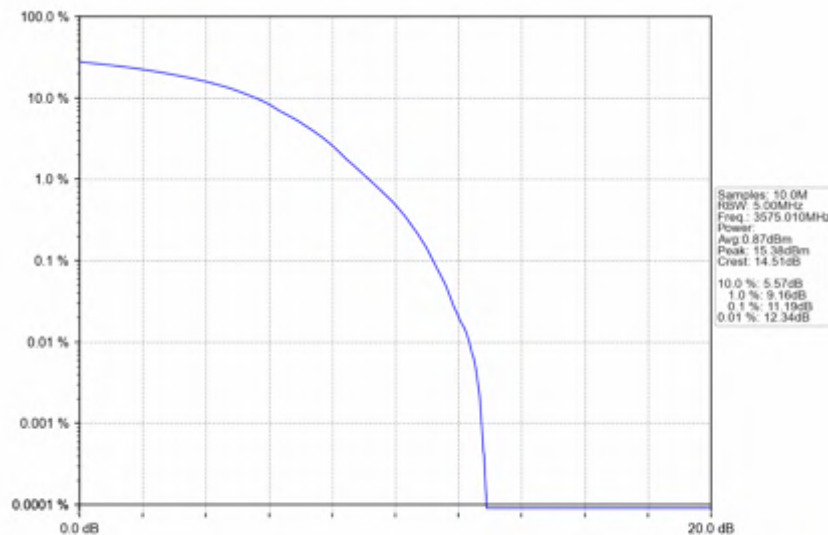
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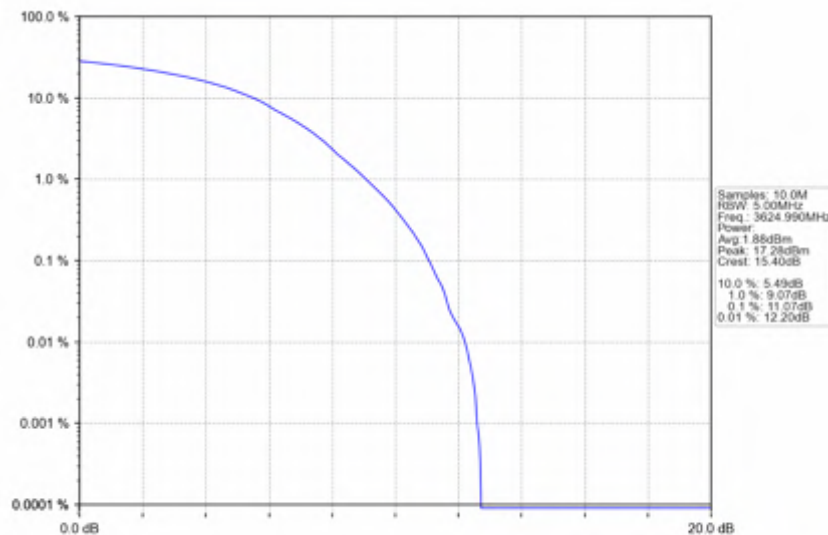
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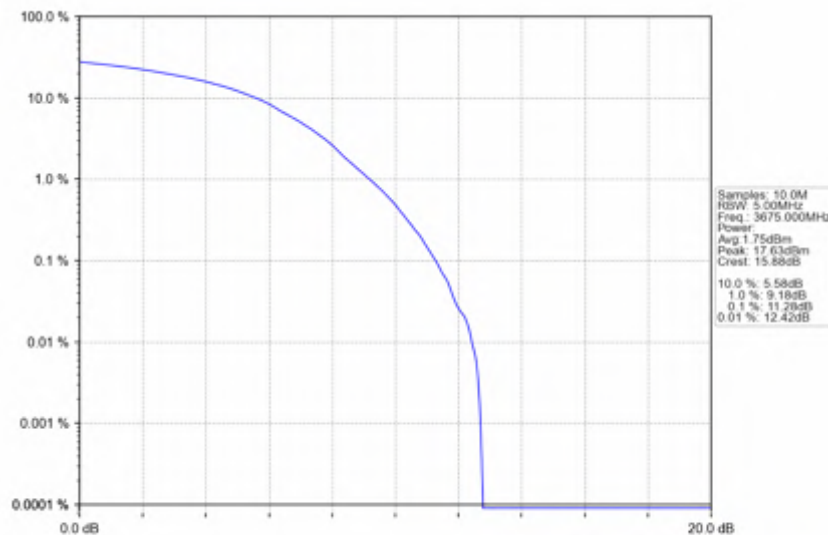
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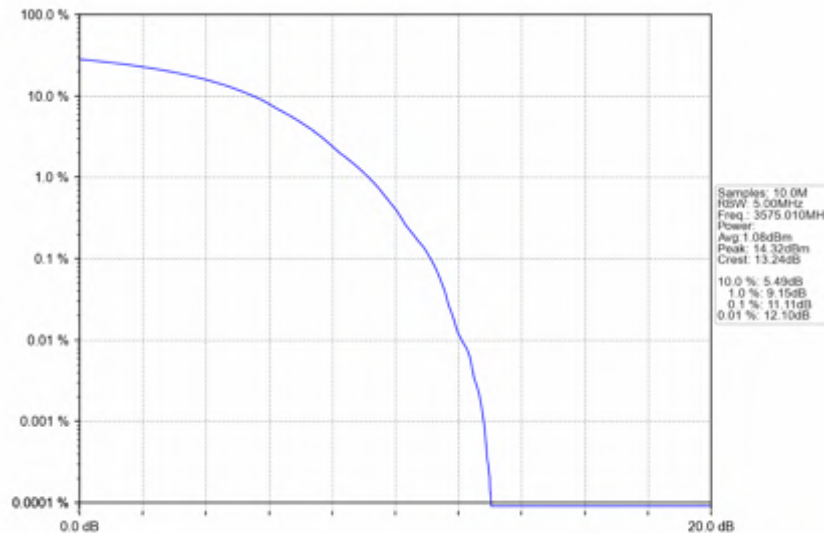
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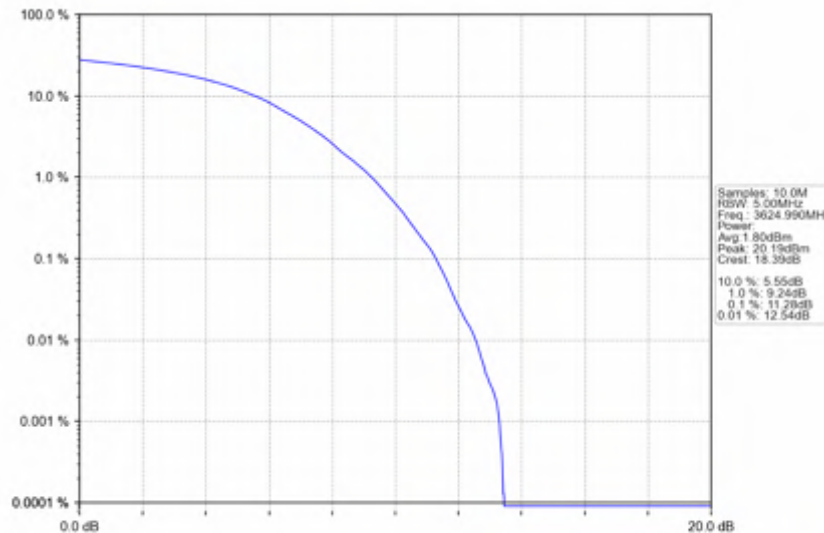
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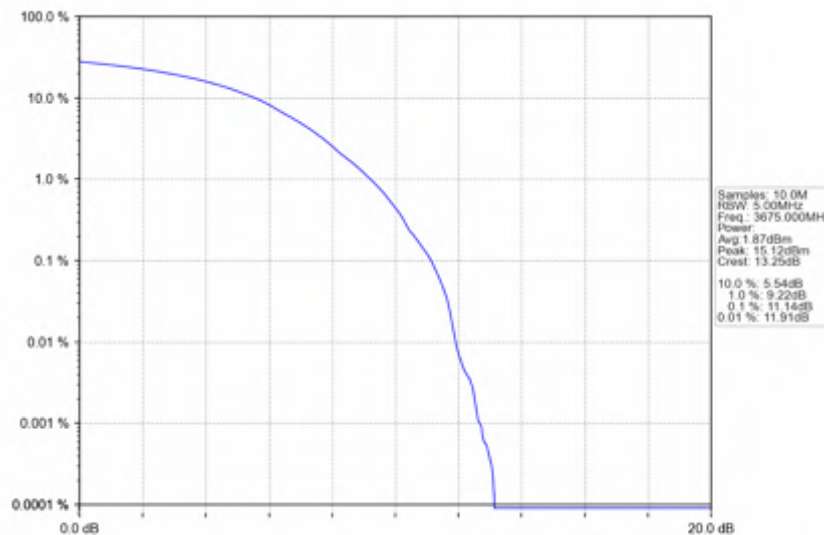


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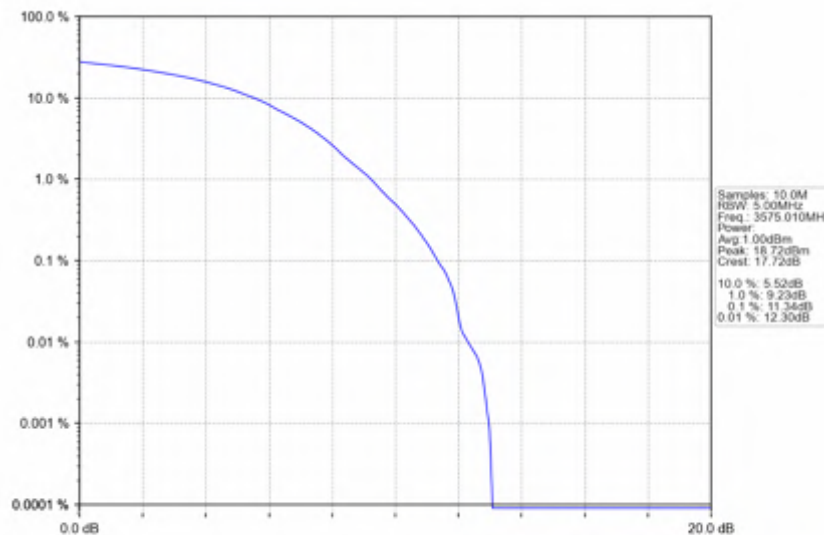
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n78d_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 16 QAM_3675MHz_Outer_Full



n78d_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 64 QAM_3575.01MHz_Outer_Full



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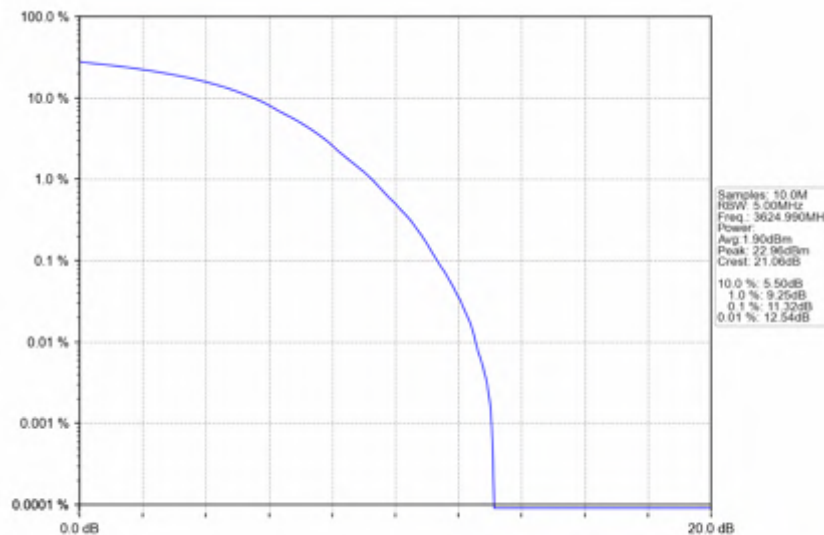
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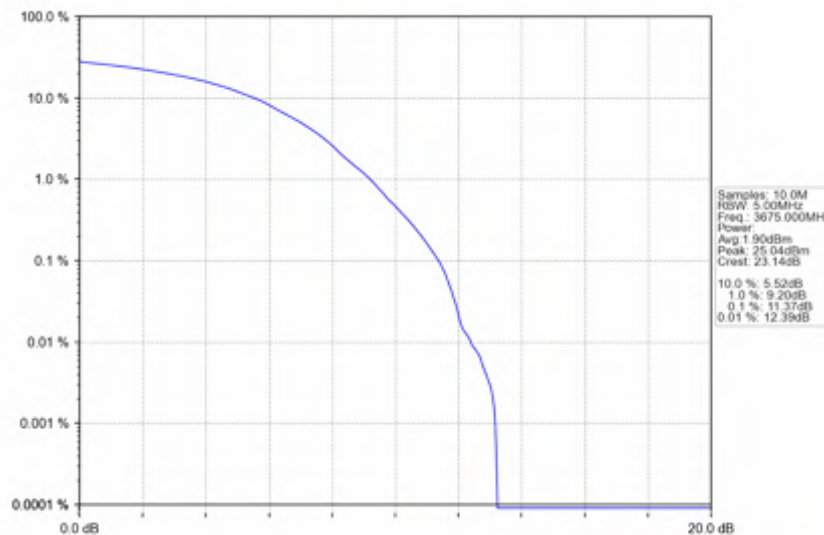
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n78d_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 64 QAM_3624.99MHz_Outer_Full



n78d_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 64 QAM_3675MHz_Outer_Full



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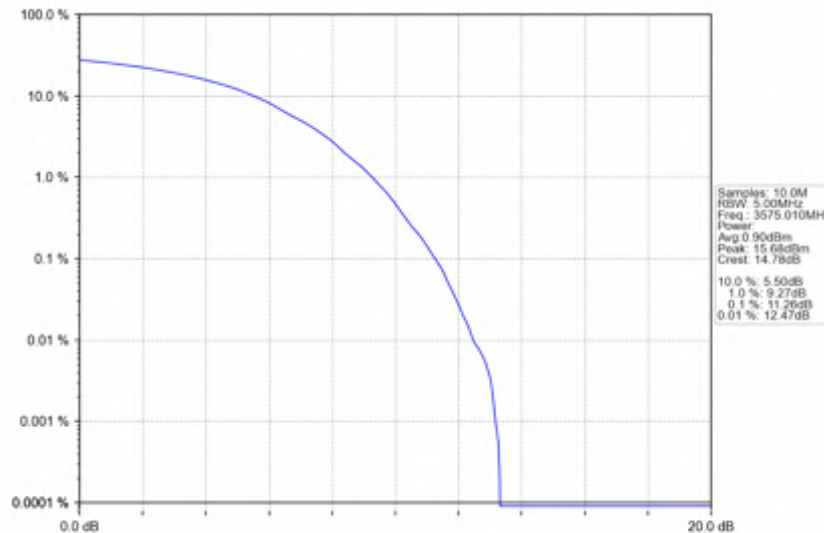
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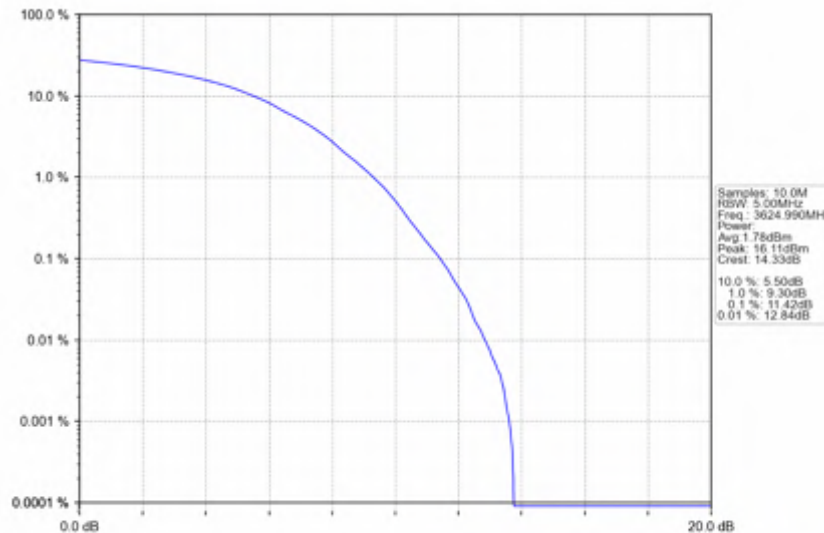
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n78d_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_256_QAM_3575.01MHz_Outer_Full



n78d_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_256_QAM_3624.99MHz_Outer_Full



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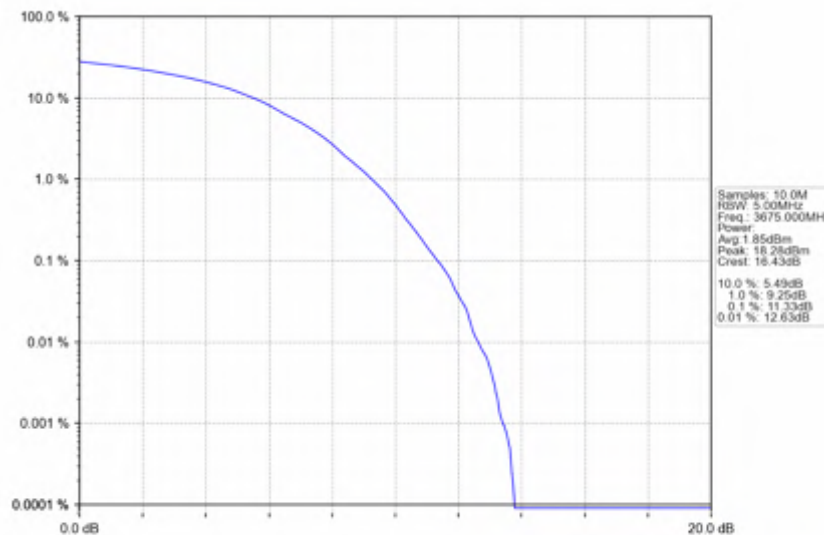
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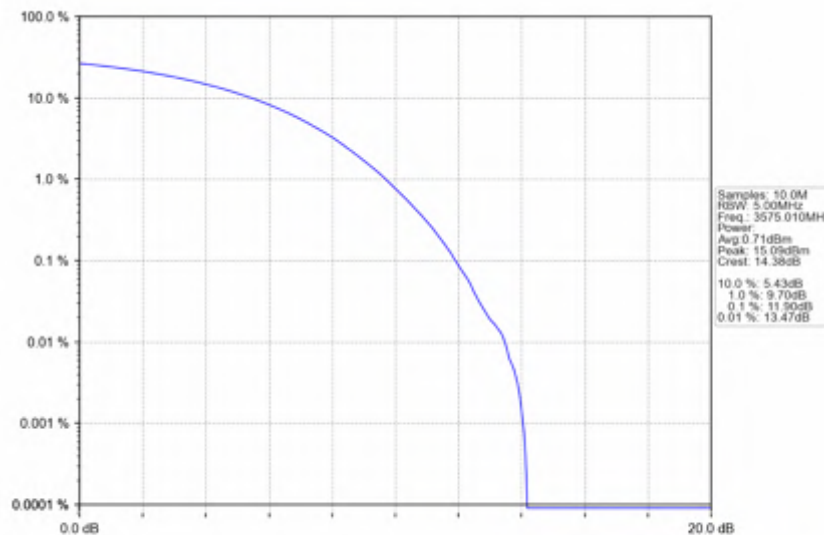
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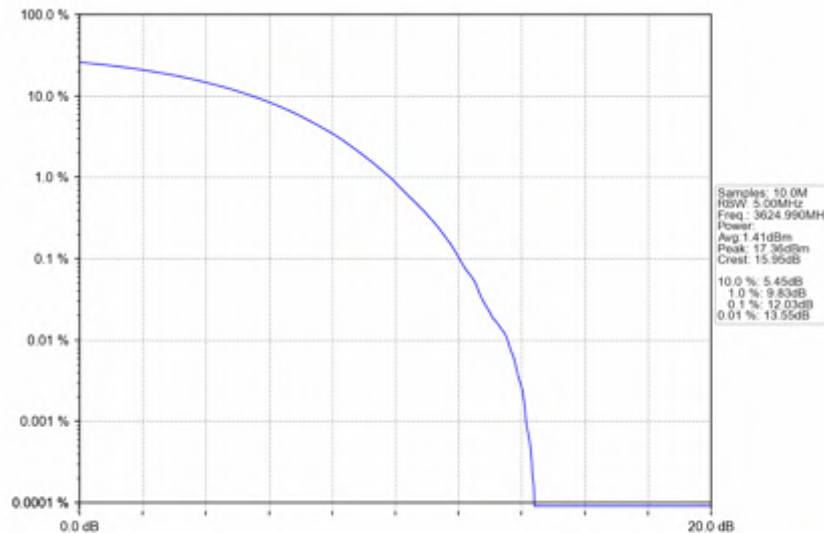
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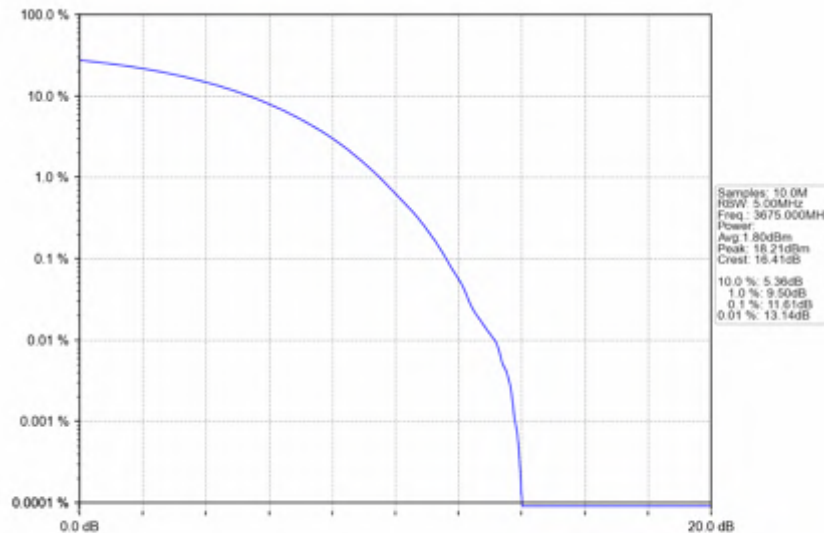
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n78d_30kHz_SISO_NTNV_50MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full



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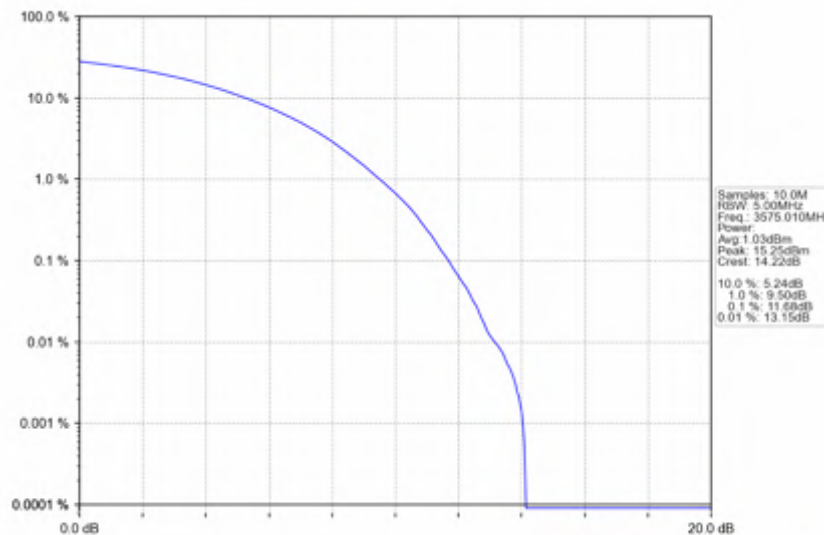
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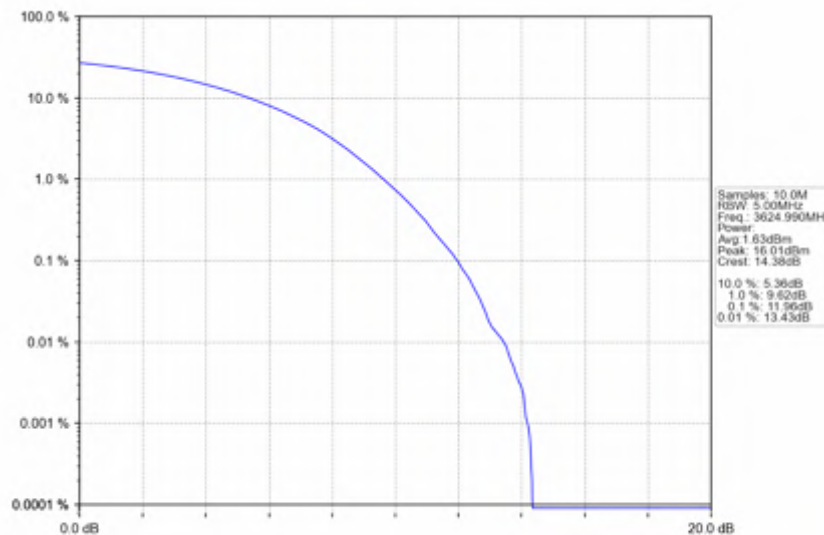
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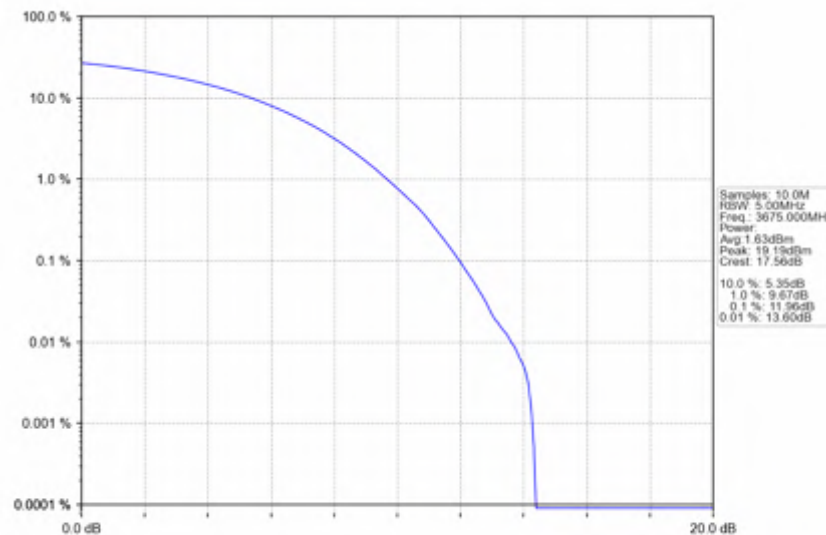
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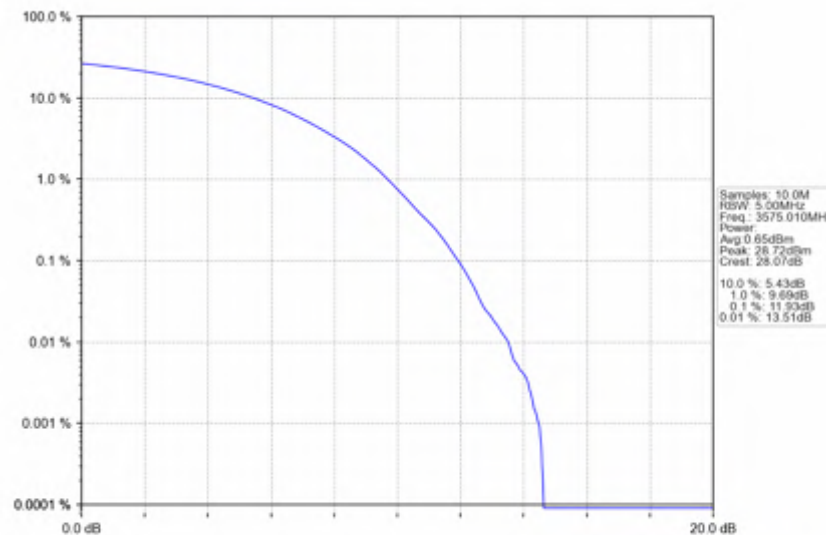
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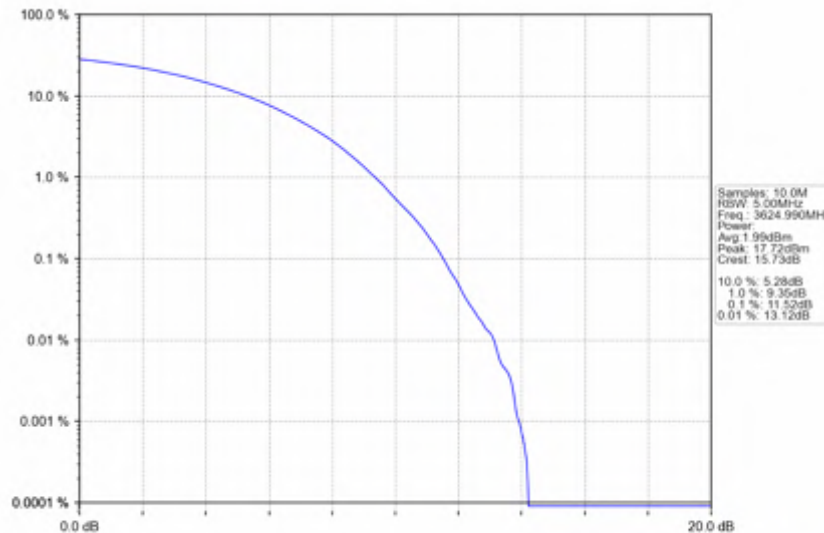
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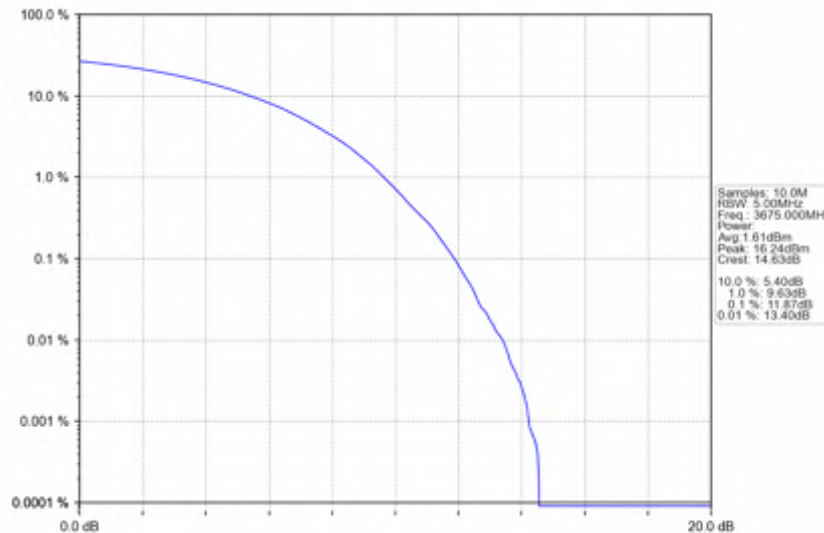
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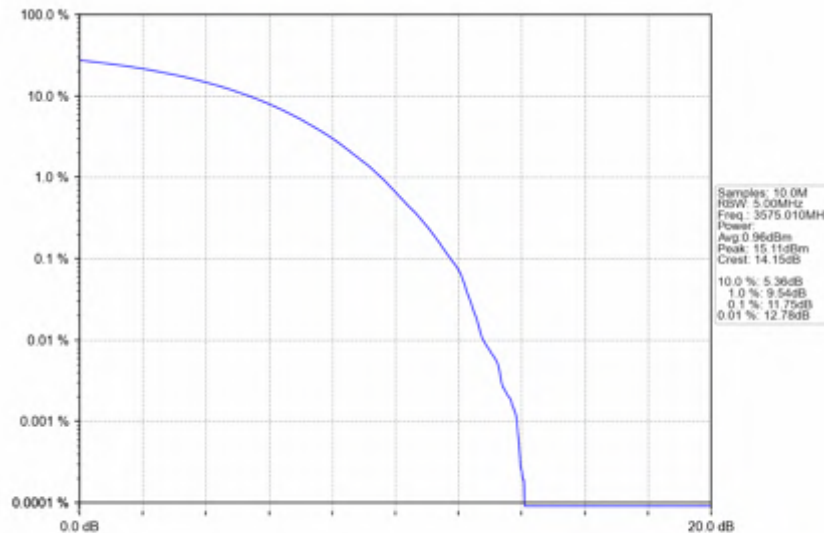
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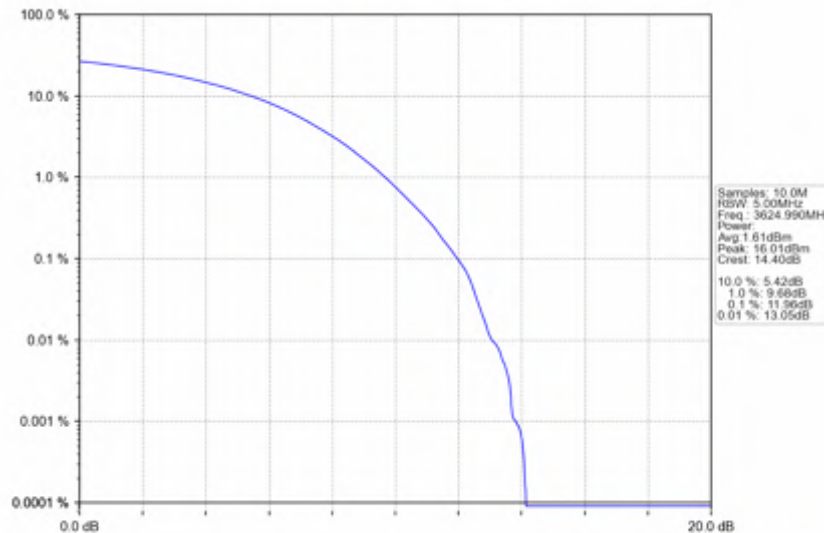
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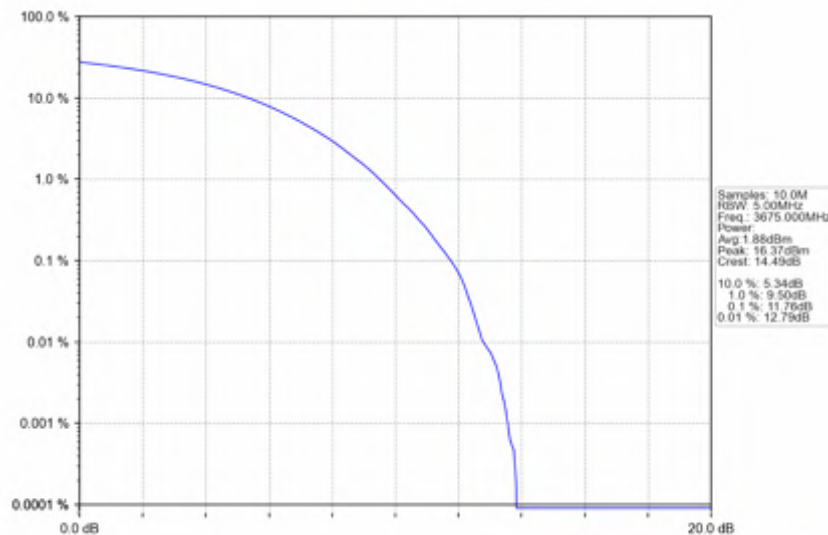
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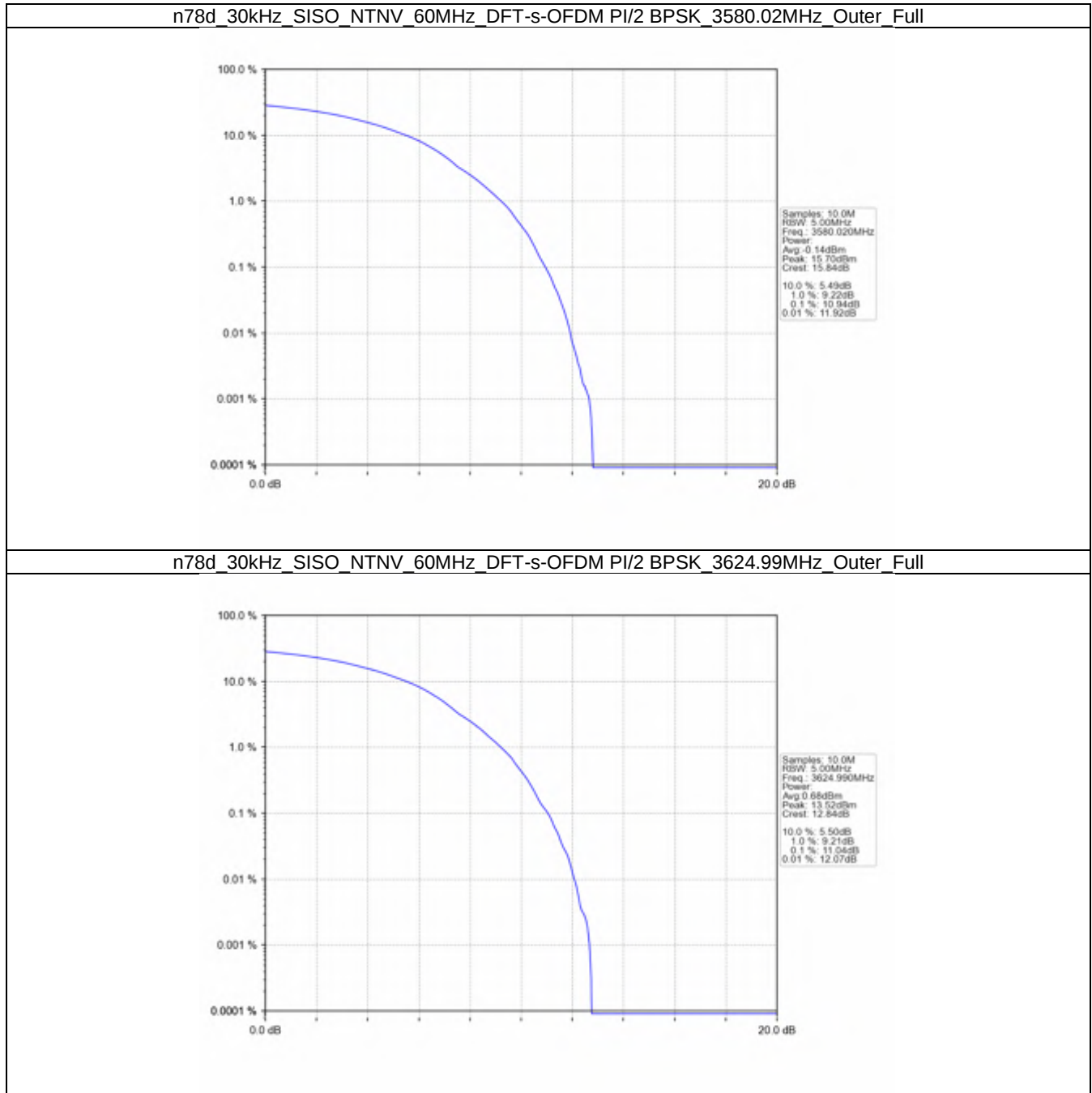
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8.15 30k_SISO_60MHz_NTNV

8.15.1 Test Result

5G NR n78d SCS=30kHz SISO 60MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3580.02	Outer_Full	10.94	/	/	<=13	Pass
	3624.99	Outer_Full	11.04	/	/	<=13	Pass
	3669.99	Outer_Full	11.00	/	/	<=13	Pass
DFT-s-OFDM QPSK	3580.02	Outer_Full	11.41	/	/	<=13	Pass
	3624.99	Outer_Full	11.16	/	/	<=13	Pass
	3669.99	Outer_Full	11.36	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3580.02	Outer_Full	11.36	/	/	<=13	Pass
	3624.99	Outer_Full	11.20	/	/	<=13	Pass
	3669.99	Outer_Full	11.33	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3580.02	Outer_Full	11.08	/	/	<=13	Pass
	3624.99	Outer_Full	11.12	/	/	<=13	Pass
	3669.99	Outer_Full	11.09	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3580.02	Outer_Full	11.37	/	/	<=13	Pass
	3624.99	Outer_Full	11.09	/	/	<=13	Pass
	3669.99	Outer_Full	11.16	/	/	<=13	Pass
CP-OFDM QPSK	3580.02	Outer_Full	11.94	/	/	<=13	Pass
	3624.99	Outer_Full	11.93	/	/	<=13	Pass
	3669.99	Outer_Full	11.95	/	/	<=13	Pass
CP-OFDM 16 QAM	3580.02	Outer_Full	12.00	/	/	<=13	Pass
	3624.99	Outer_Full	11.91	/	/	<=13	Pass
	3669.99	Outer_Full	11.85	/	/	<=13	Pass
CP-OFDM 64 QAM	3580.02	Outer_Full	11.77	/	/	<=13	Pass
	3624.99	Outer_Full	11.72	/	/	<=13	Pass
	3669.99	Outer_Full	11.99	/	/	<=13	Pass
CP-OFDM 256 QAM	3580.02	Outer_Full	11.70	/	/	<=13	Pass
	3624.99	Outer_Full	11.75	/	/	<=13	Pass
	3669.99	Outer_Full	11.78	/	/	<=13	Pass

1.15.2 Test Graph



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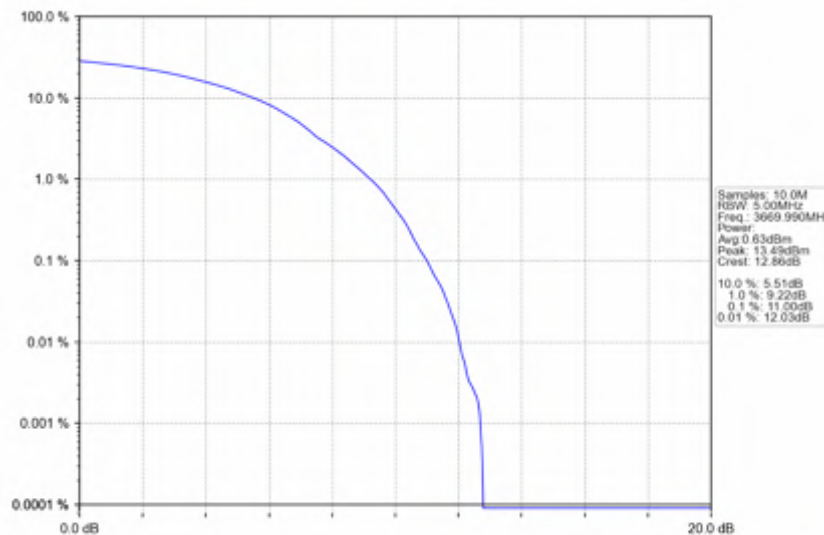
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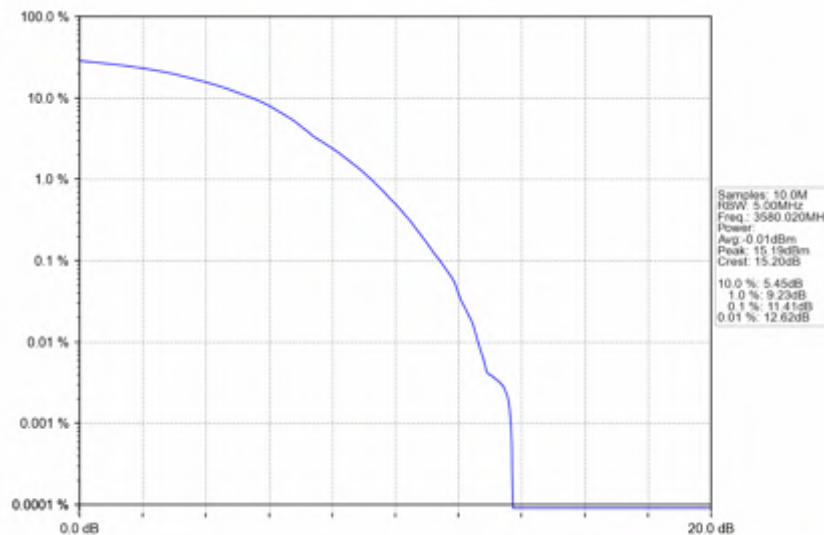
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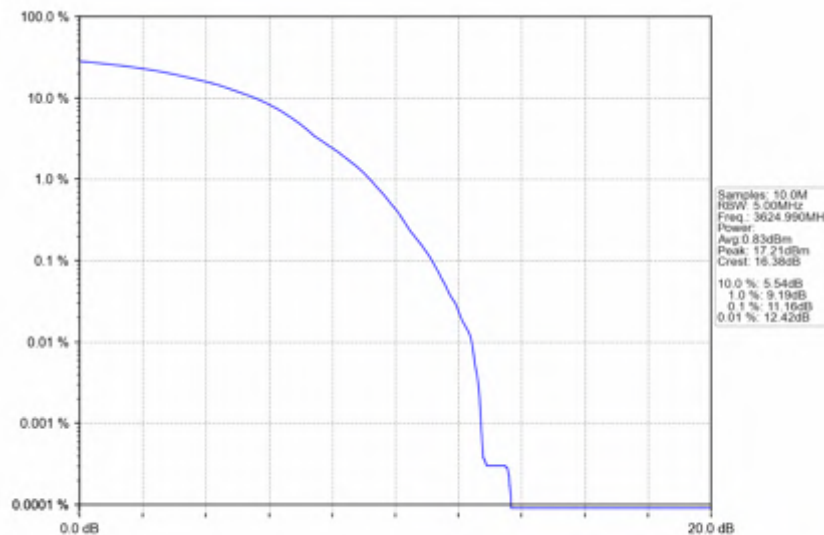


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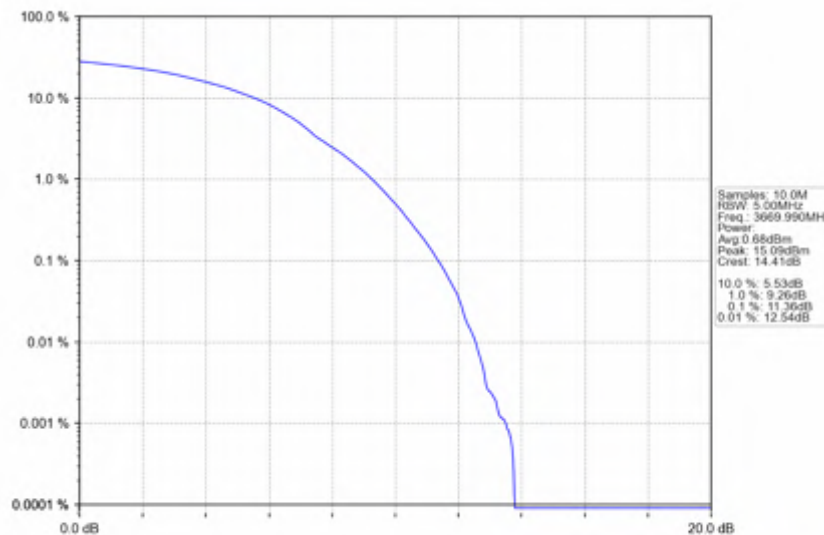
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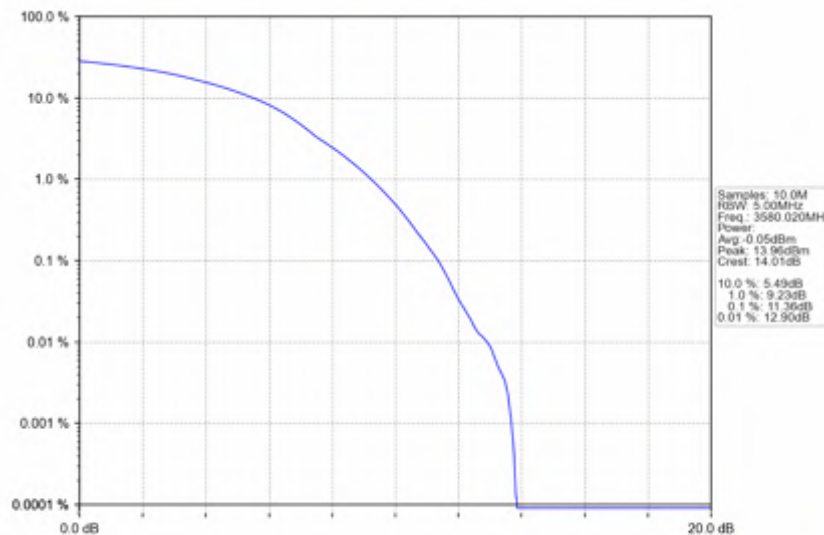
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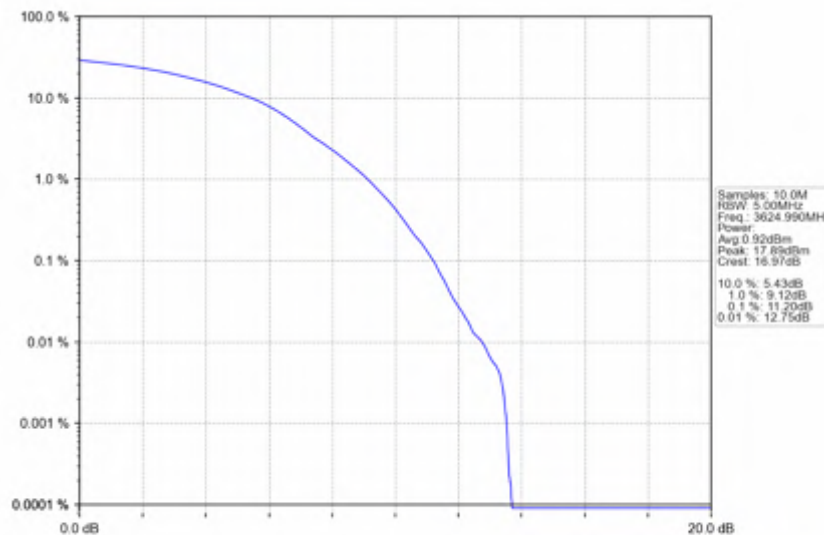
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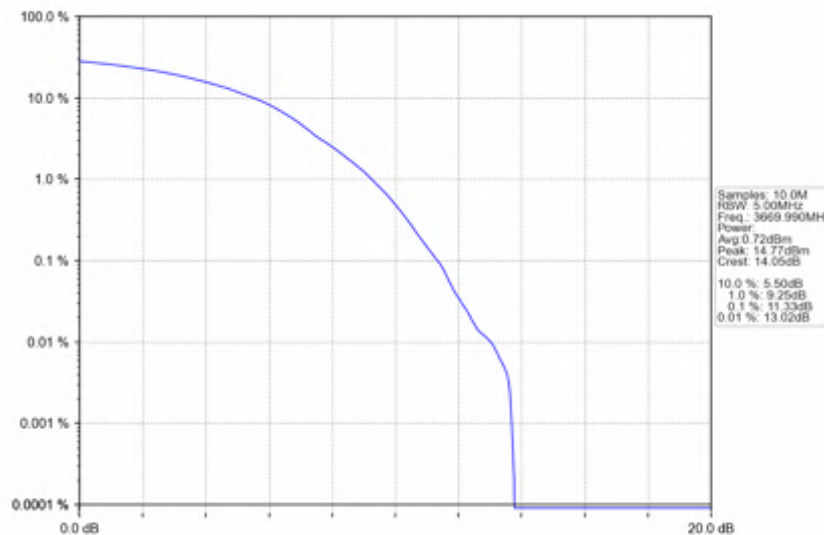
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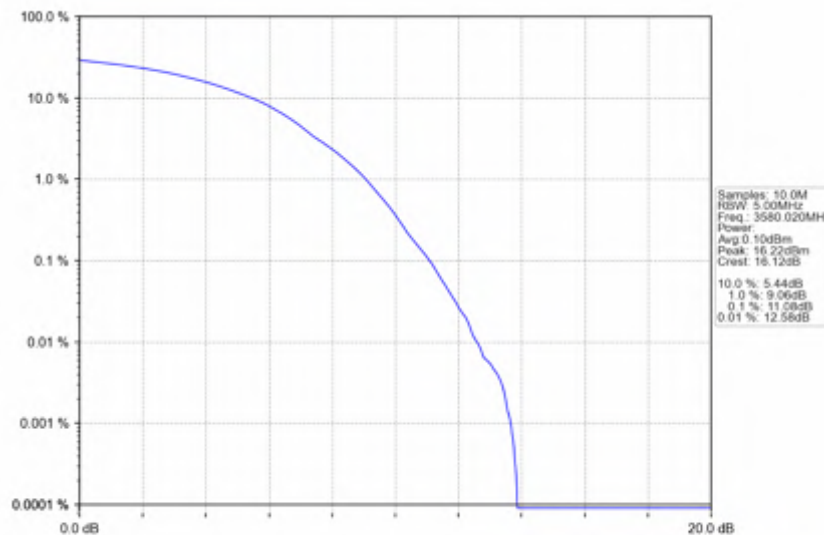
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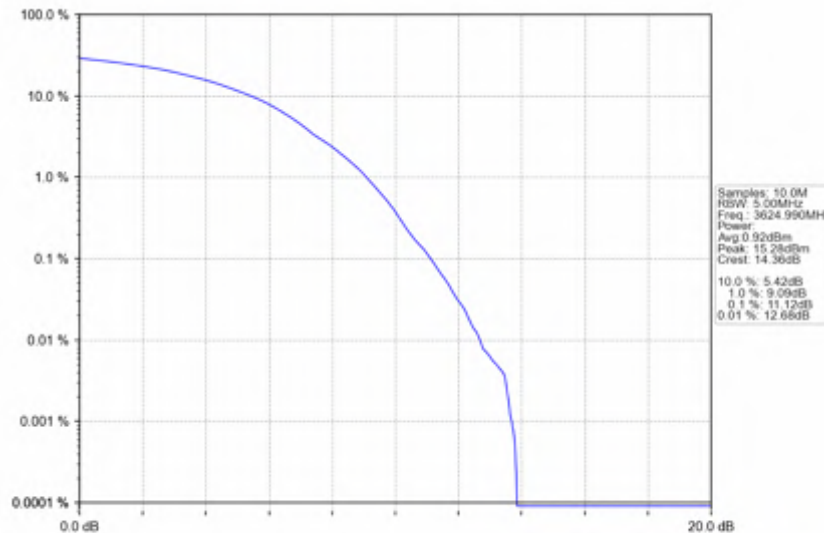
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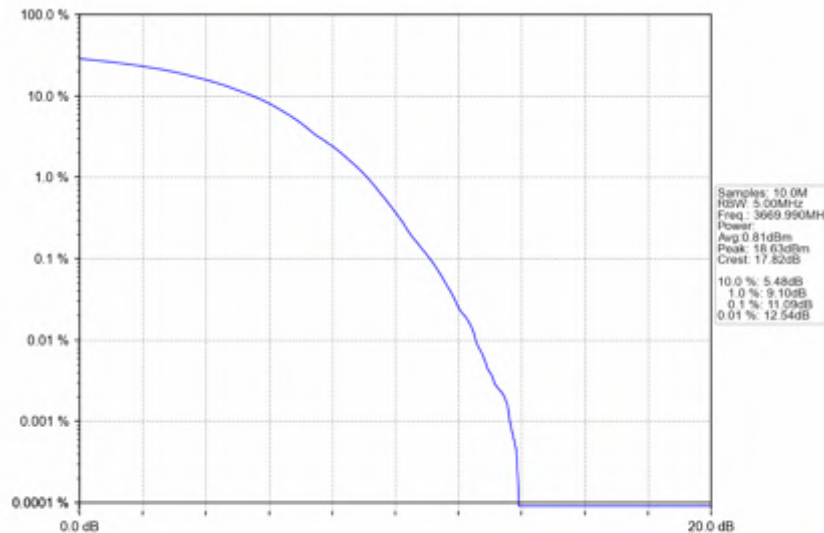
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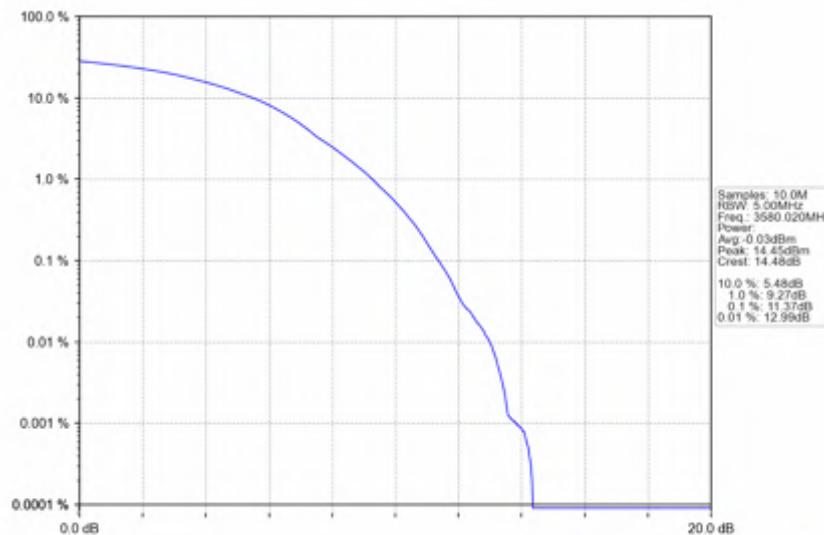


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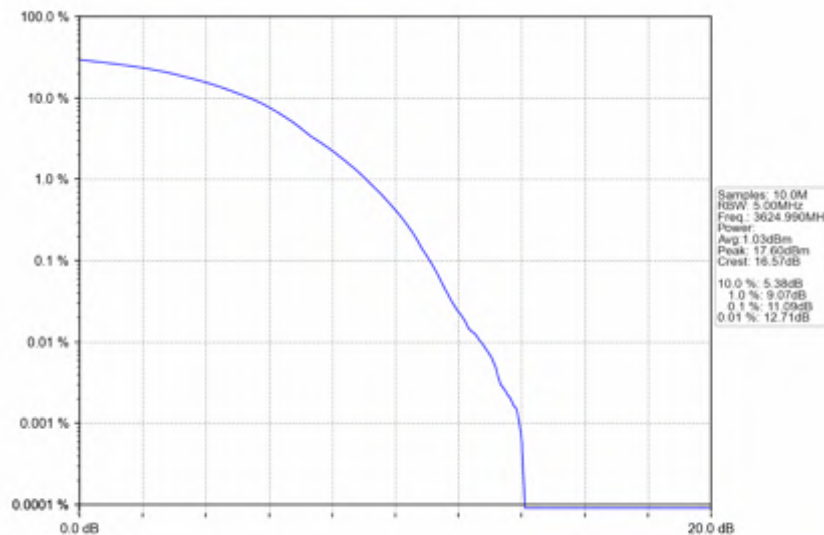
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