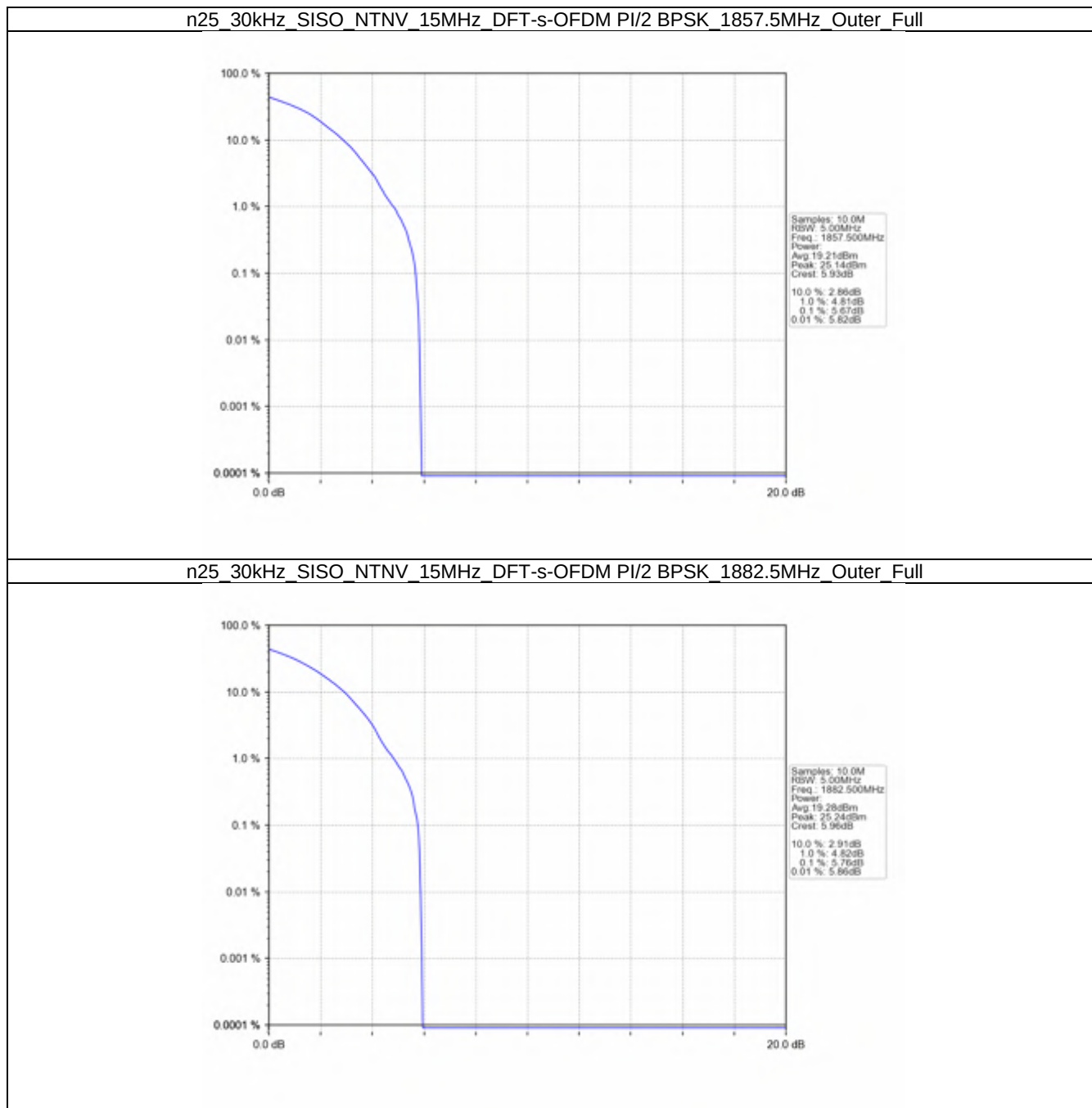


4.9 30k_SISO_15MHz_NTNV

4.9.1 Test Result

5G NR n25 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	1857.5	Outer_Full	5.67	/	/	<=13	Pass
	1882.5	Outer_Full	5.76	/	/	<=13	Pass
	1907.5	Outer_Full	5.74	/	/	<=13	Pass
DFT-s-OFDM QPSK	1857.5	Outer_Full	6.13	/	/	<=13	Pass
	1882.5	Outer_Full	6.24	/	/	<=13	Pass
	1907.5	Outer_Full	6.21	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1857.5	Outer_Full	7.14	/	/	<=13	Pass
	1882.5	Outer_Full	7.20	/	/	<=13	Pass
	1907.5	Outer_Full	7.16	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1857.5	Outer_Full	7.07	/	/	<=13	Pass
	1882.5	Outer_Full	7.22	/	/	<=13	Pass
	1907.5	Outer_Full	7.27	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1857.5	Outer_Full	7.39	/	/	<=13	Pass
	1882.5	Outer_Full	6.94	/	/	<=13	Pass
	1907.5	Outer_Full	7.04	/	/	<=13	Pass
CP-OFDM QPSK	1857.5	Outer_Full	8.27	/	/	<=13	Pass
	1882.5	Outer_Full	8.15	/	/	<=13	Pass
	1907.5	Outer_Full	8.06	/	/	<=13	Pass
CP-OFDM 16 QAM	1857.5	Outer_Full	8.06	/	/	<=13	Pass
	1882.5	Outer_Full	8.31	/	/	<=13	Pass
	1907.5	Outer_Full	8.38	/	/	<=13	Pass
CP-OFDM 64 QAM	1857.5	Outer_Full	8.28	/	/	<=13	Pass
	1882.5	Outer_Full	8.22	/	/	<=13	Pass
	1907.5	Outer_Full	8.13	/	/	<=13	Pass
CP-OFDM 256 QAM	1857.5	Outer_Full	8.00	/	/	<=13	Pass
	1882.5	Outer_Full	8.55	/	/	<=13	Pass
	1907.5	Outer_Full	8.65	/	/	<=13	Pass

4.9.2 Test Graph



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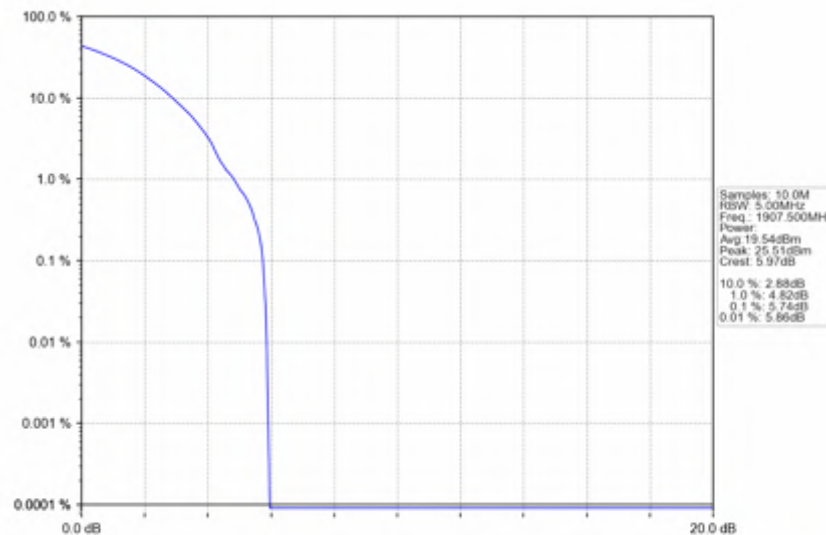
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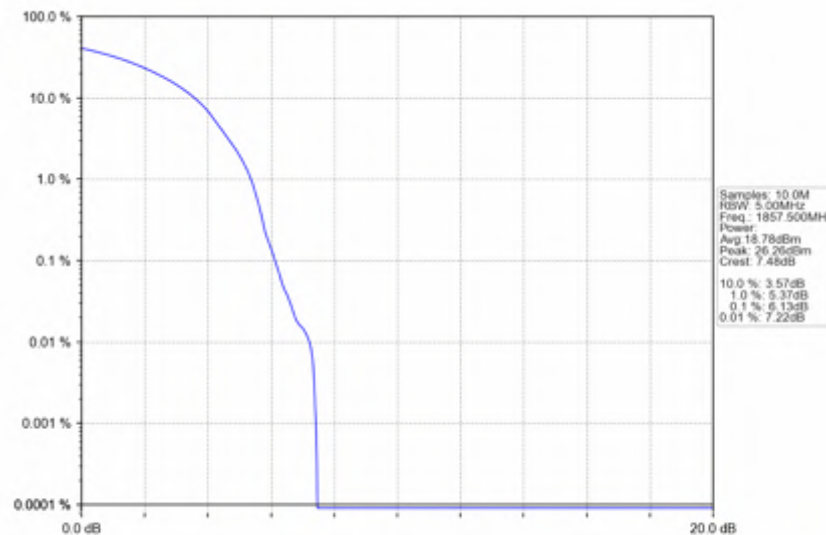
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n25_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1907.5MHz_Outer_Full



n25_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1857.5MHz_Outer_Full

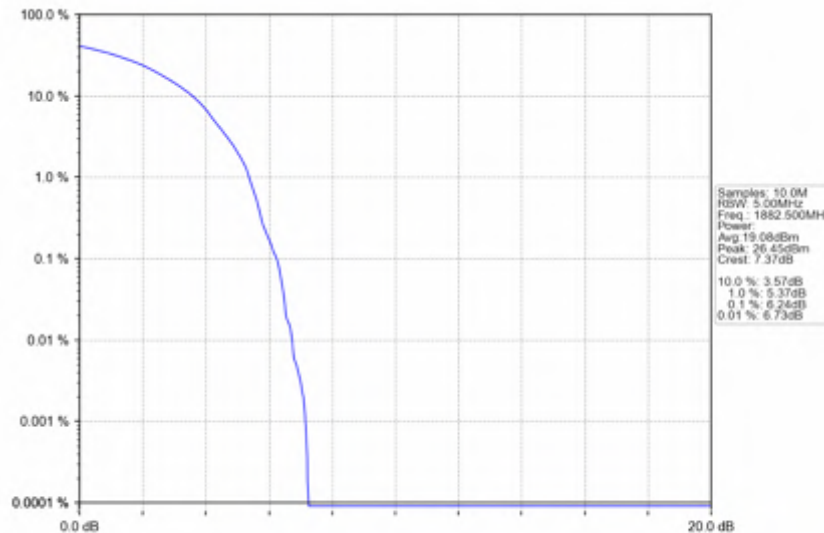


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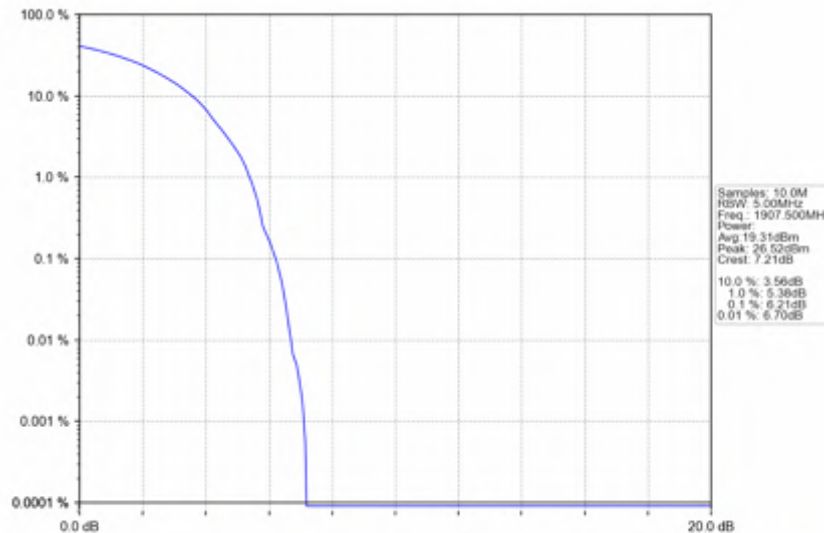
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n25_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_1882.5MHz_Outer_Full



n25_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_1907.5MHz_Outer_Full



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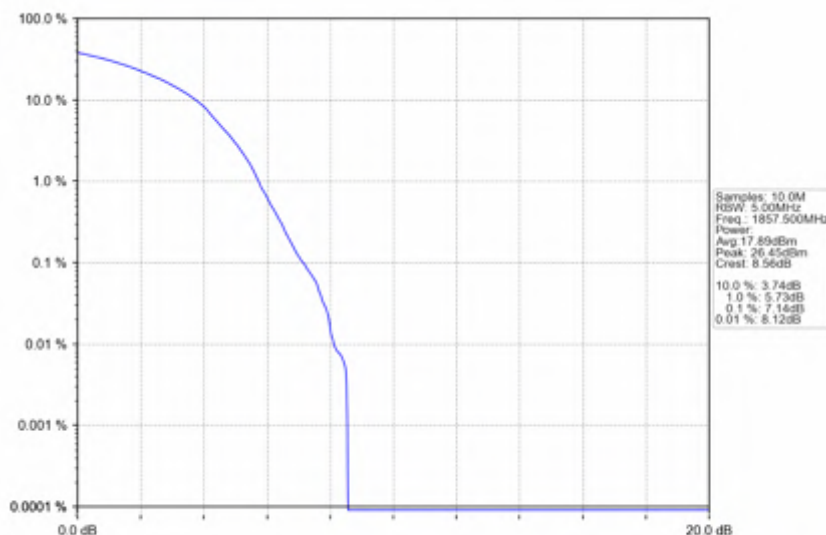
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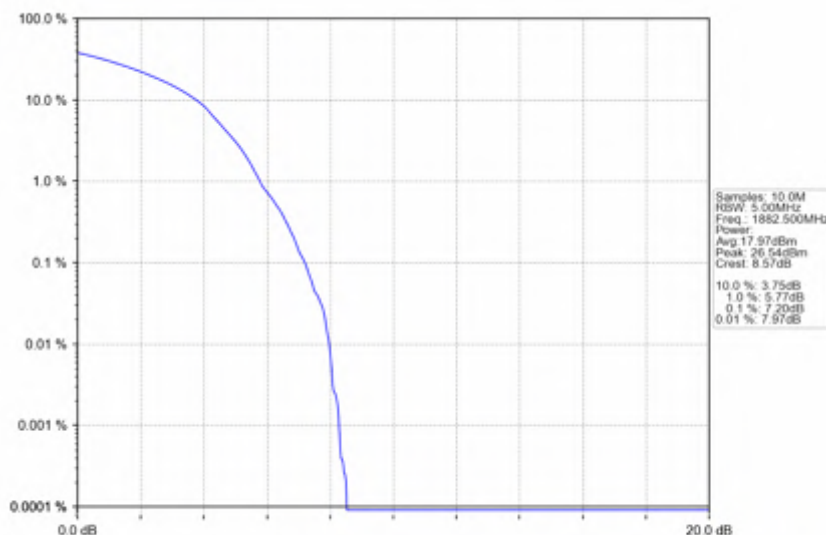
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n25 30kHz SISO NTNV 15MHz DFT-s-OFDM 16 QAM 1857.5MHz Outer Full



n25	30kHz	SISO	NTNV	15MHz	DFT-s-OFDM	16 QAM	1882.5MHz	Outer	Full
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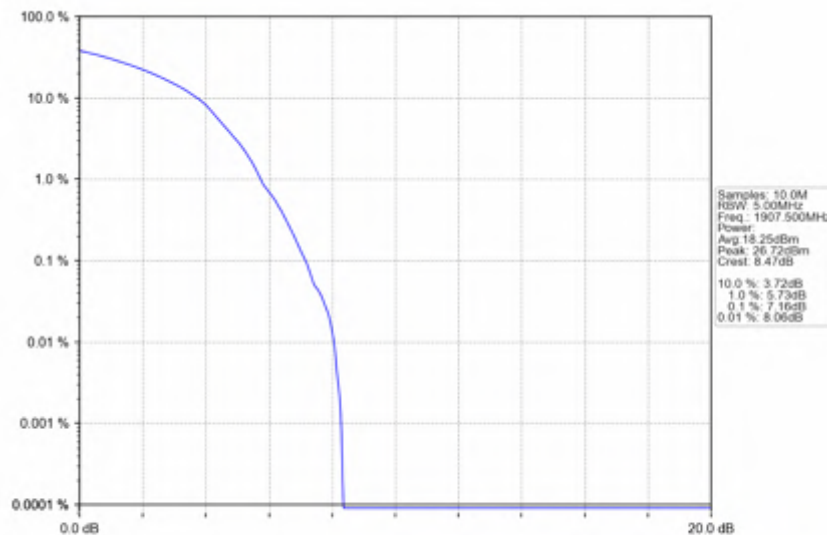


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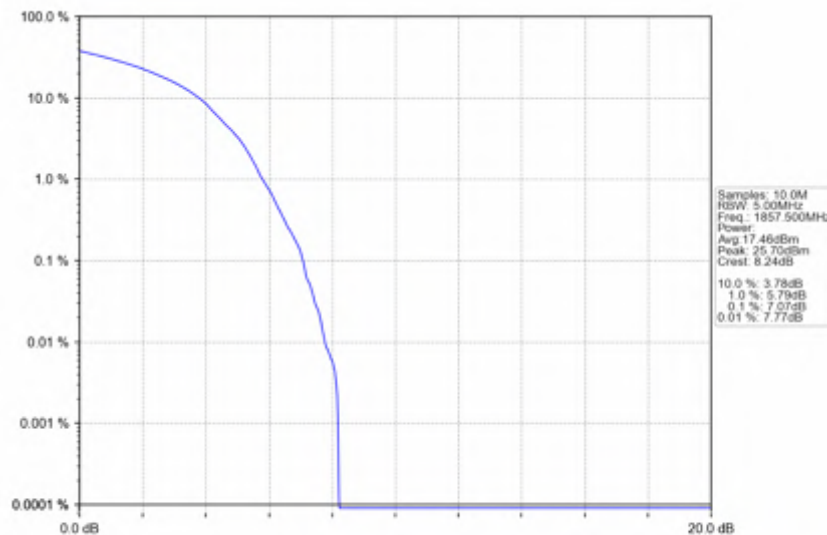
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n25_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_64_QAM_1857.5MHz_Outer_Full

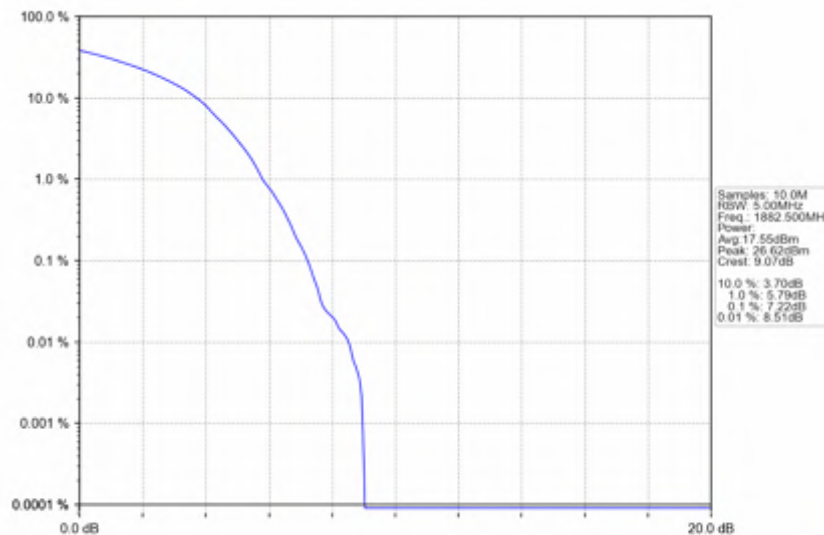


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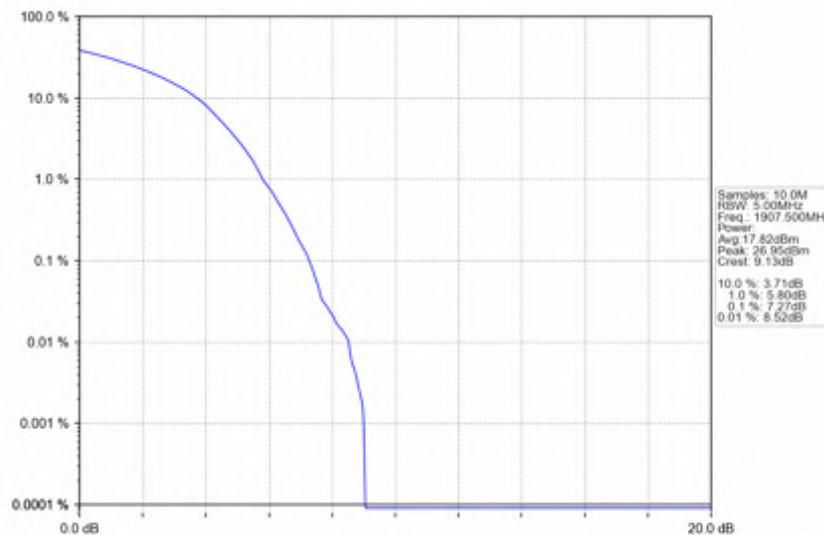
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n25_30kHz_SISO_NTV_15MHz_DFT-s-OFDM 64 QAM_1882.5MHz_Outer_Full



n25_30kHz_SISO_NTV_15MHz_DFT-s-OFDM 64 QAM_1907.5MHz_Outer_Full



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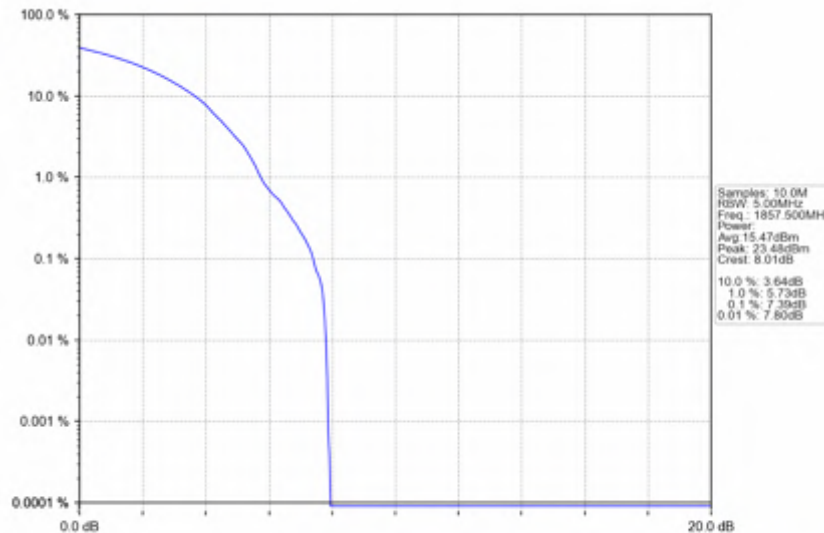
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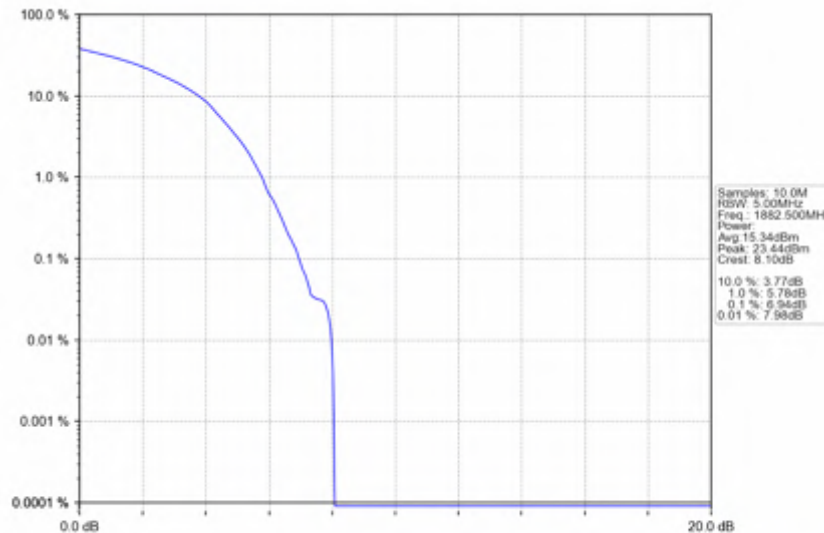
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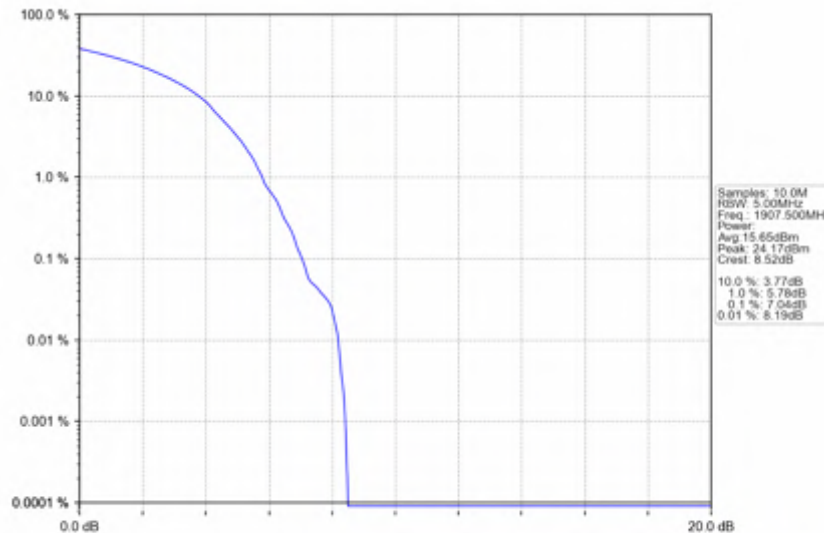
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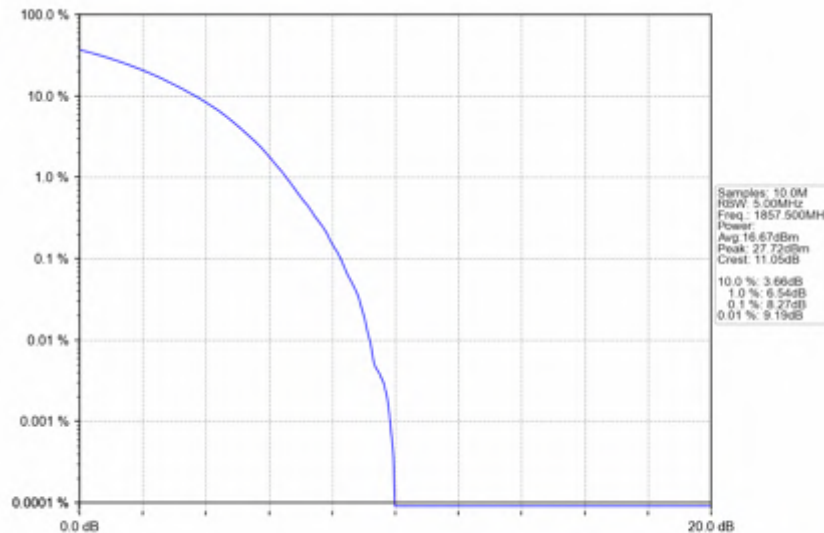
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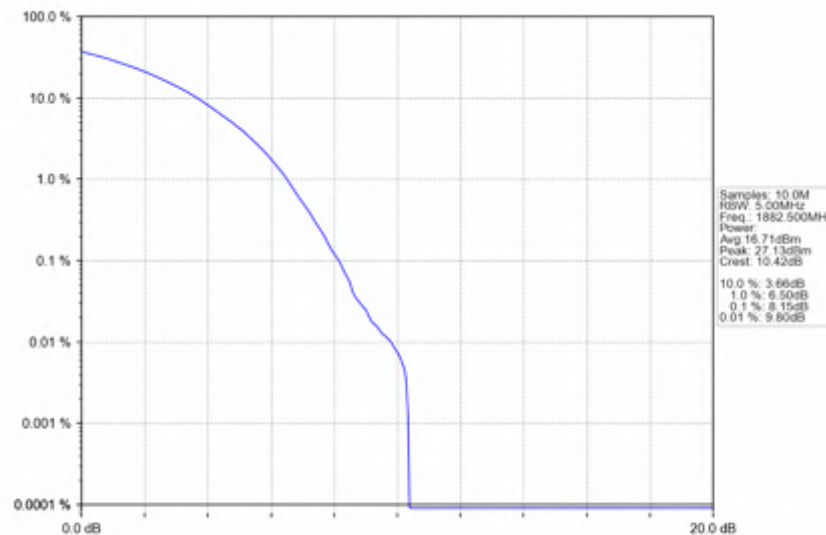


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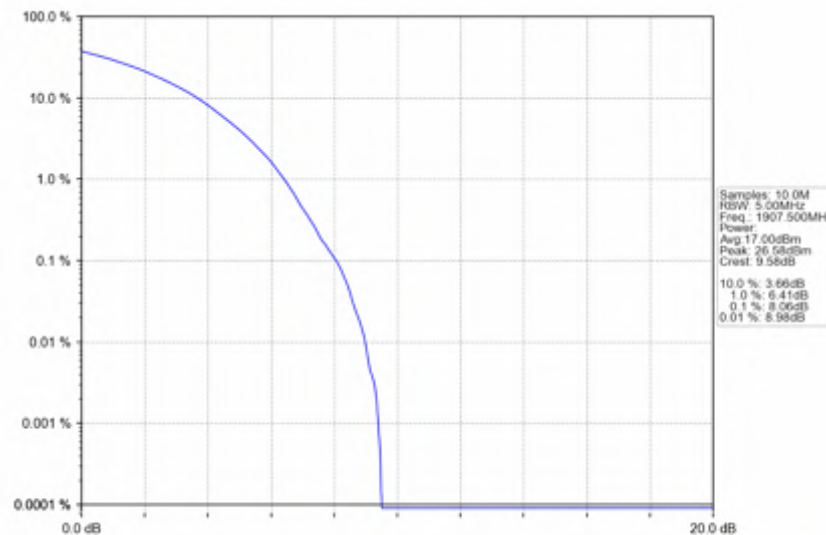
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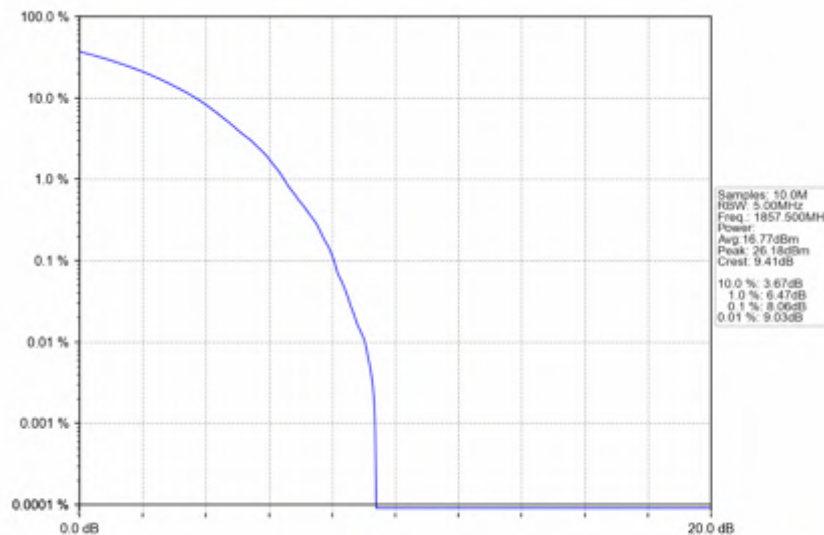


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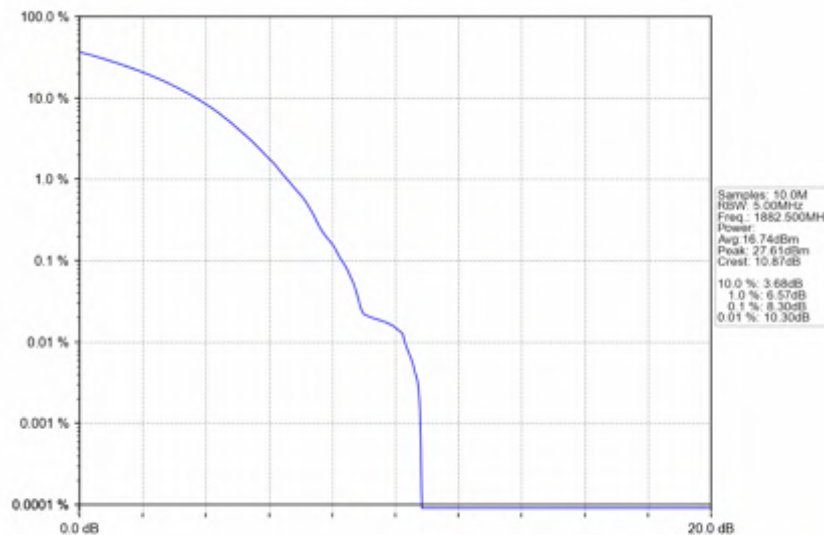
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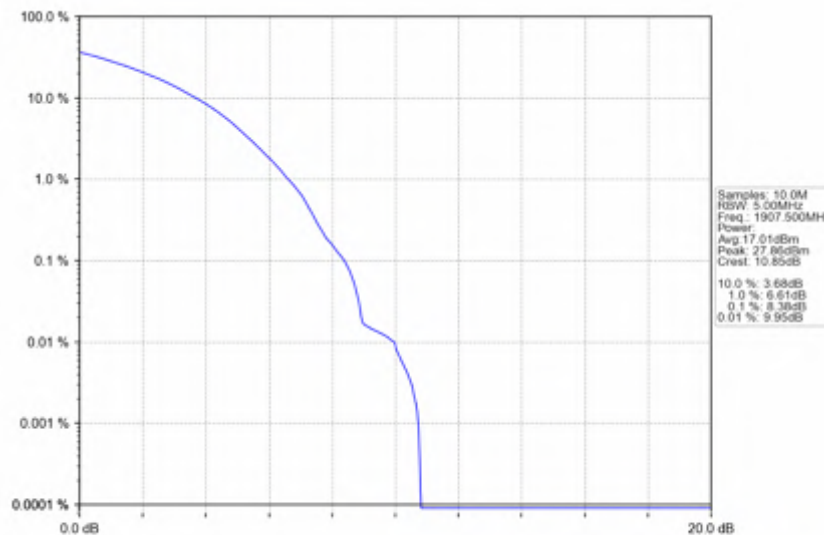


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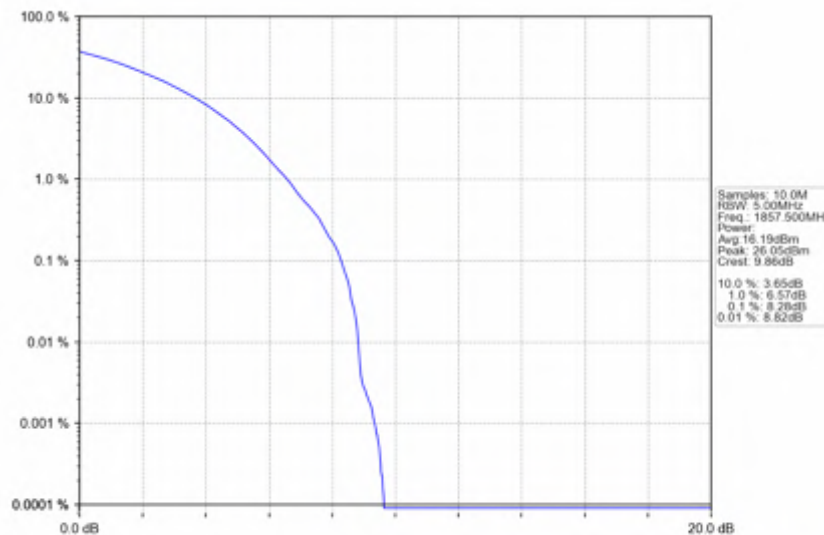
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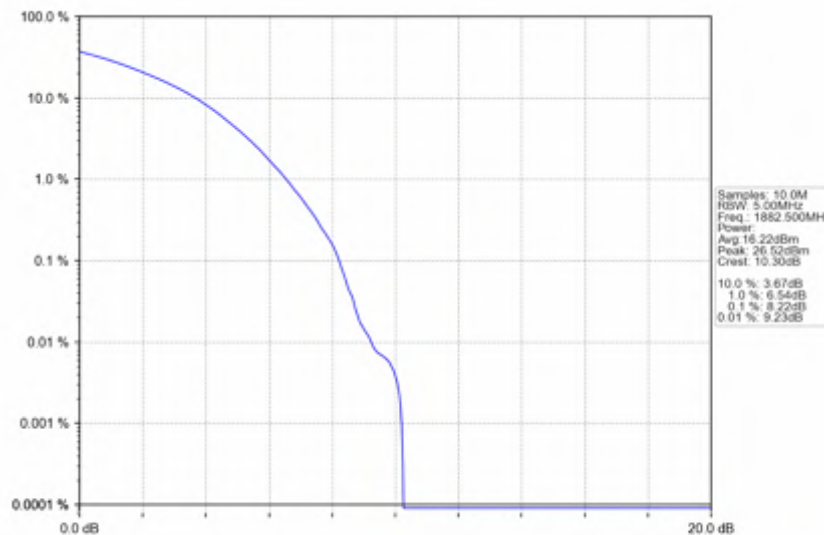


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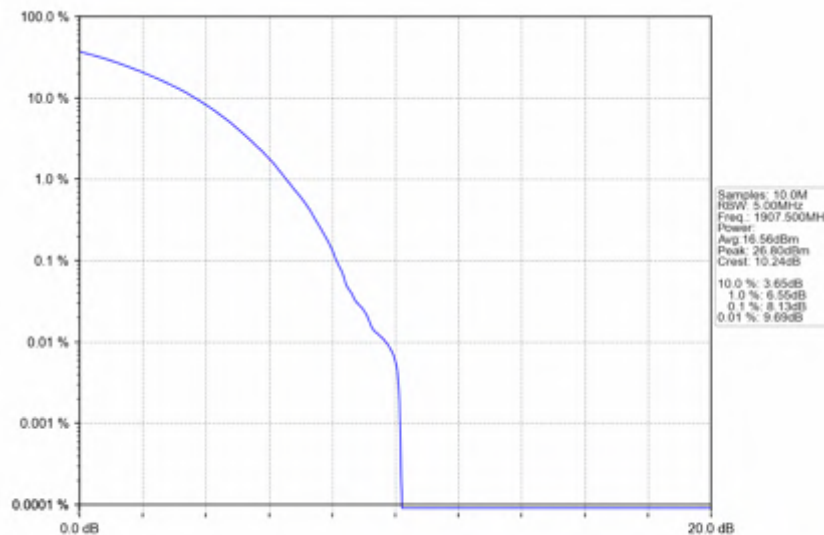
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n25_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_1882.5MHz_Outer_Full



n25_30kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_1907.5MHz_Outer_Full

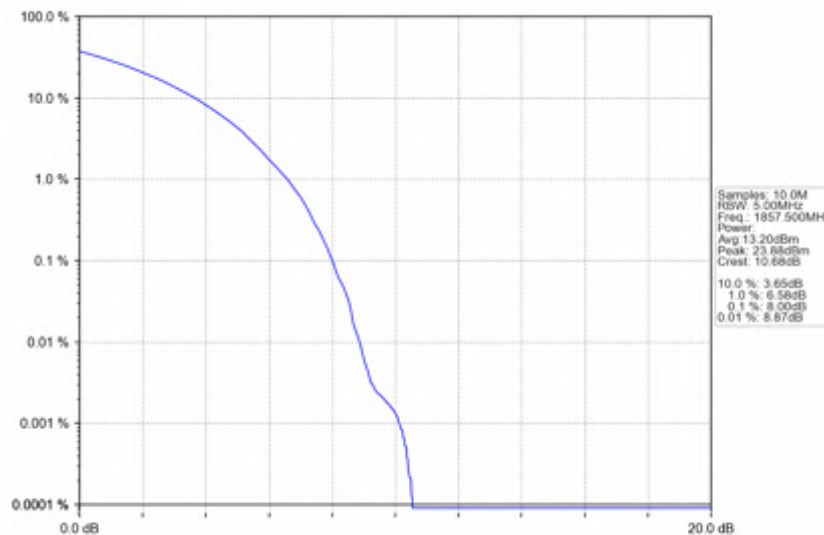


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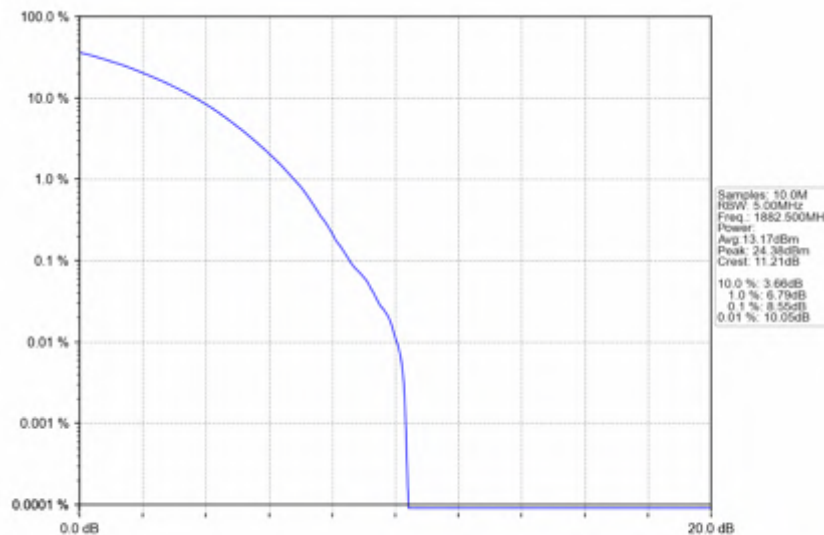
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n25_30kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_1857.5MHz_Outer_Full



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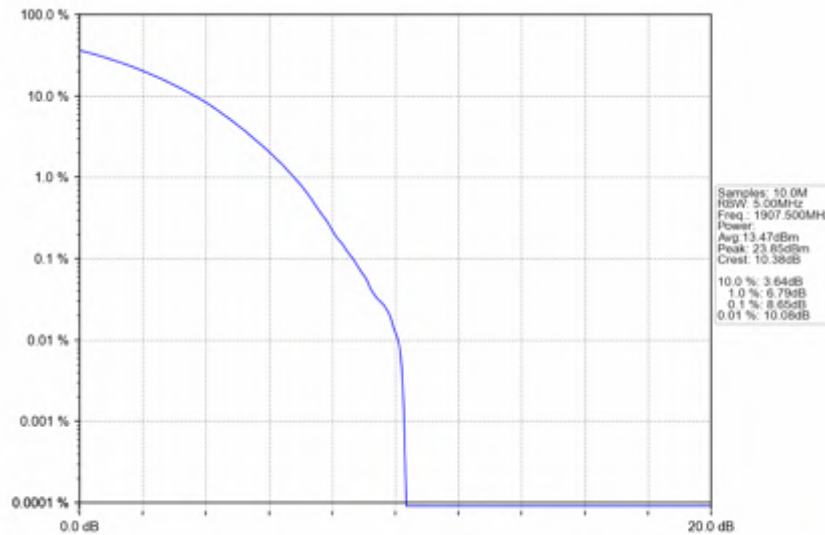


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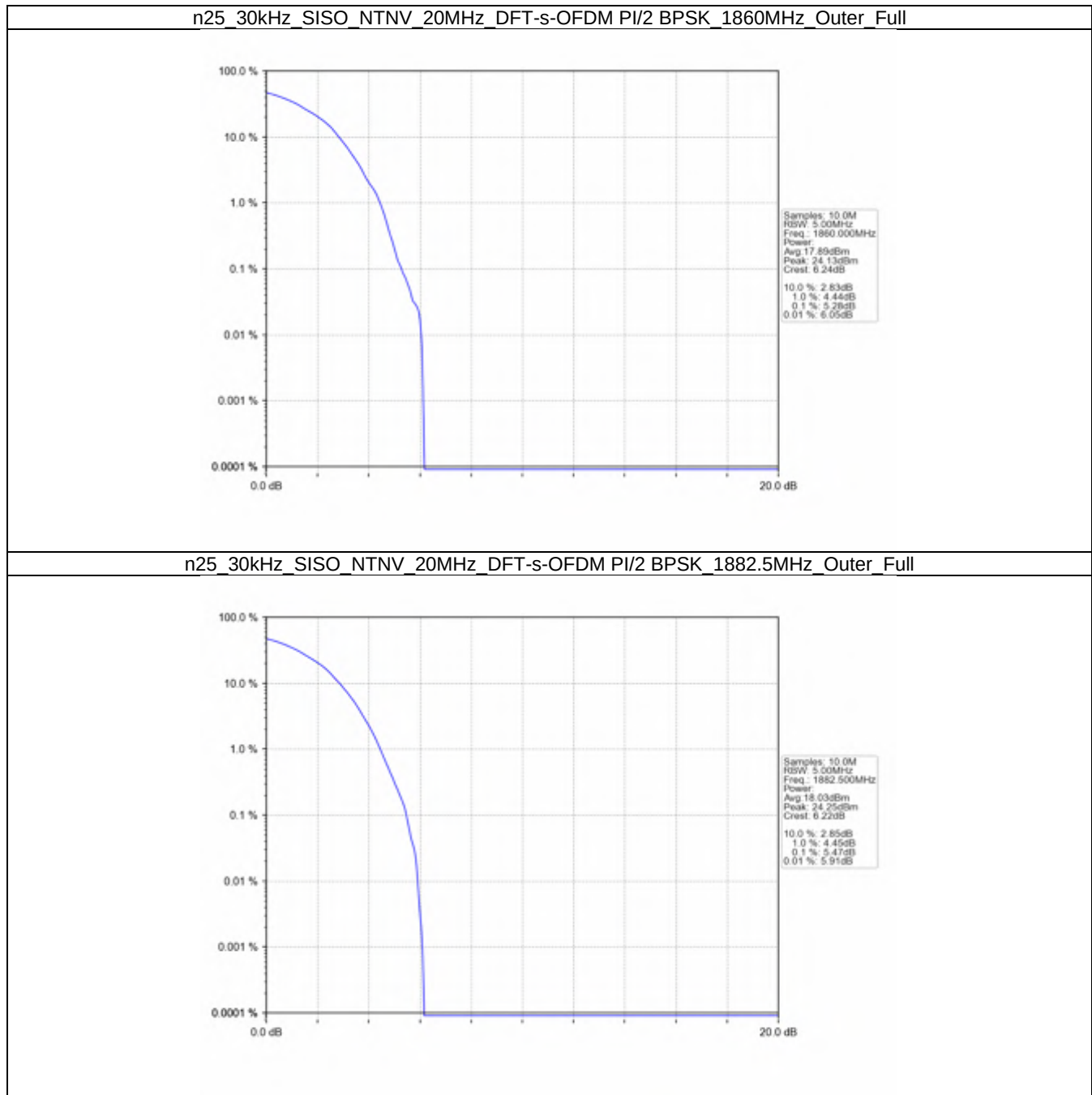
4.10 30k_SISO_20MHz_NTNV

4.10.1 Test Result

5G NR n25 SCS=30kHz SISO 20MHz NTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	1860	Outer_Full	5.28	/	/	<=13	Pass
	1882.5	Outer_Full	5.47	/	/	<=13	Pass
	1905	Outer_Full	5.36	/	/	<=13	Pass
DFT-s-OFDM QPSK	1860	Outer_Full	6.63	/	/	<=13	Pass
	1882.5	Outer_Full	6.69	/	/	<=13	Pass
	1905	Outer_Full	6.76	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1860	Outer_Full	7.08	/	/	<=13	Pass
	1882.5	Outer_Full	7.26	/	/	<=13	Pass
	1905	Outer_Full	7.23	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1860	Outer_Full	7.35	/	/	<=13	Pass
	1882.5	Outer_Full	7.25	/	/	<=13	Pass
	1905	Outer_Full	7.35	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1860	Outer_Full	7.85	/	/	<=13	Pass
	1882.5	Outer_Full	7.59	/	/	<=13	Pass
	1905	Outer_Full	7.71	/	/	<=13	Pass
CP-OFDM QPSK	1860	Outer_Full	8.47	/	/	<=13	Pass
	1882.5	Outer_Full	8.10	/	/	<=13	Pass
	1905	Outer_Full	8.13	/	/	<=13	Pass
CP-OFDM 16 QAM	1860	Outer_Full	8.39	/	/	<=13	Pass
	1882.5	Outer_Full	8.38	/	/	<=13	Pass
	1905	Outer_Full	8.36	/	/	<=13	Pass
CP-OFDM 64 QAM	1860	Outer_Full	8.22	/	/	<=13	Pass
	1882.5	Outer_Full	8.18	/	/	<=13	Pass
	1905	Outer_Full	8.18	/	/	<=13	Pass
CP-OFDM 256 QAM	1860	Outer_Full	8.31	/	/	<=13	Pass
	1882.5	Outer_Full	8.37	/	/	<=13	Pass
	1905	Outer_Full	8.24	/	/	<=13	Pass



4.10.2 Test Graph



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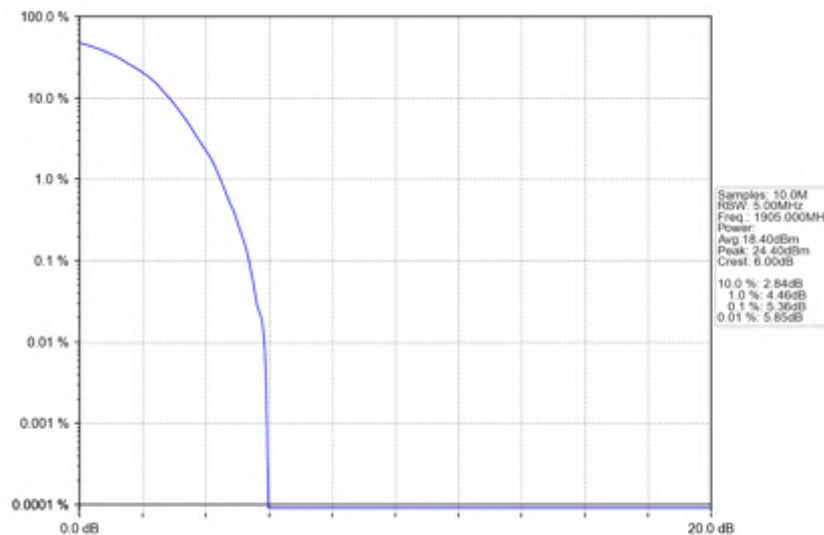
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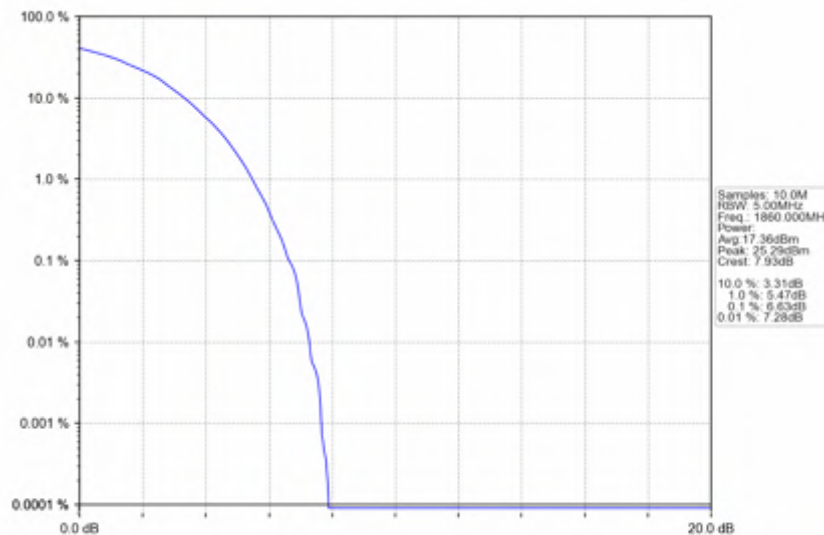
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n25_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_1860MHz_Outer_Full



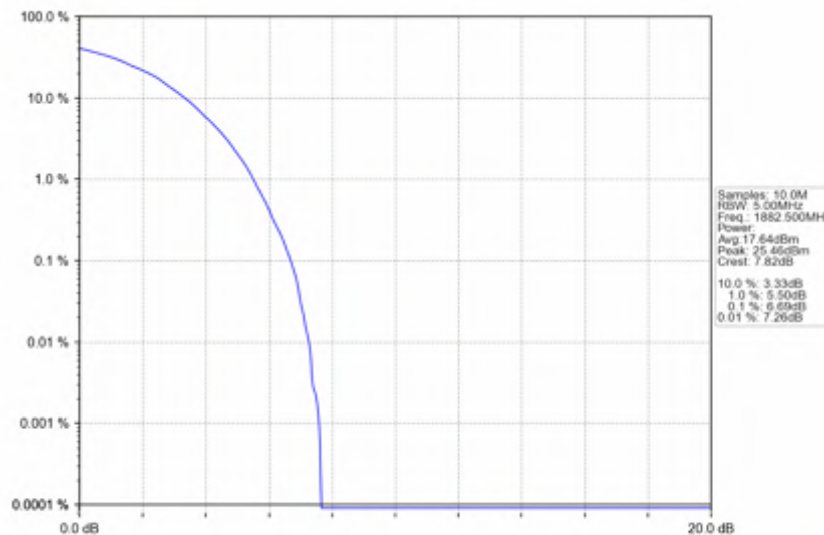
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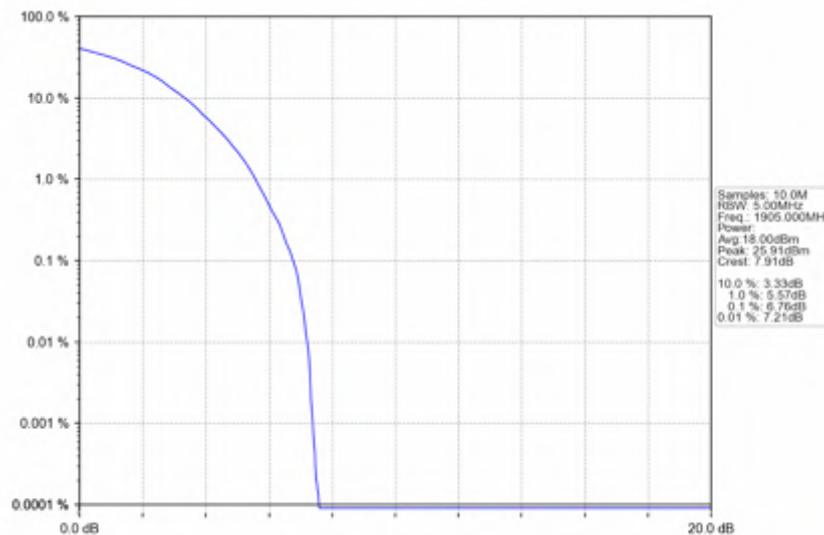
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n25_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_1905MHz_Outer_Full



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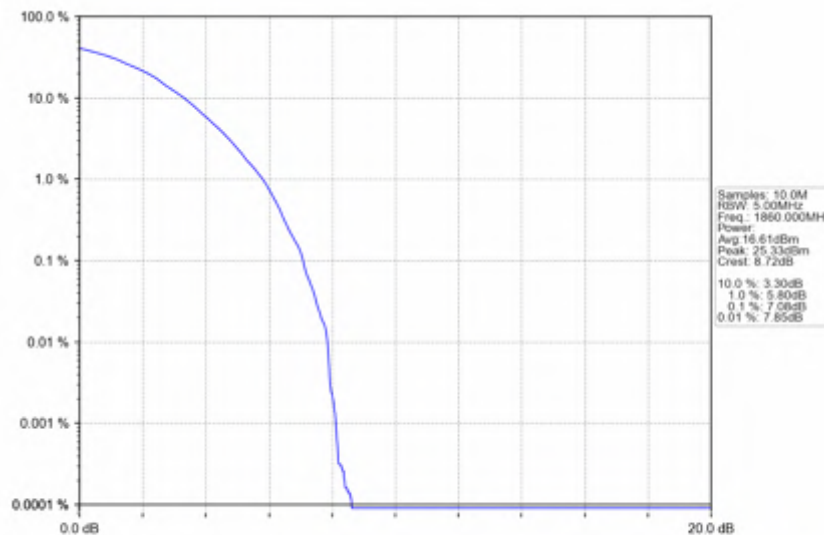
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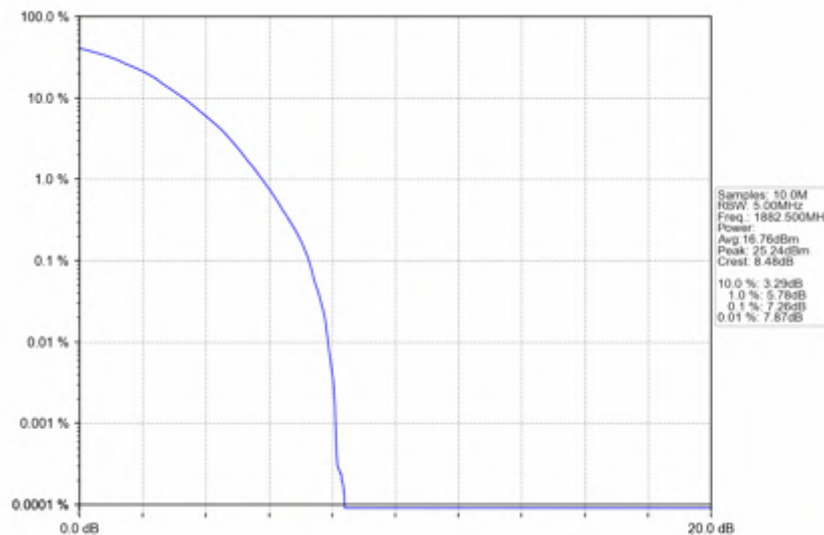
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n25_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_1882.5MHz_Outer_Full



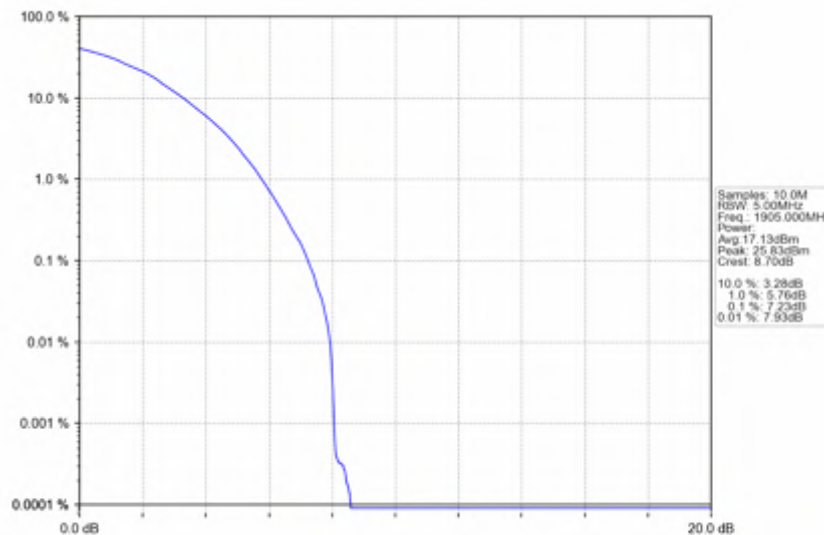
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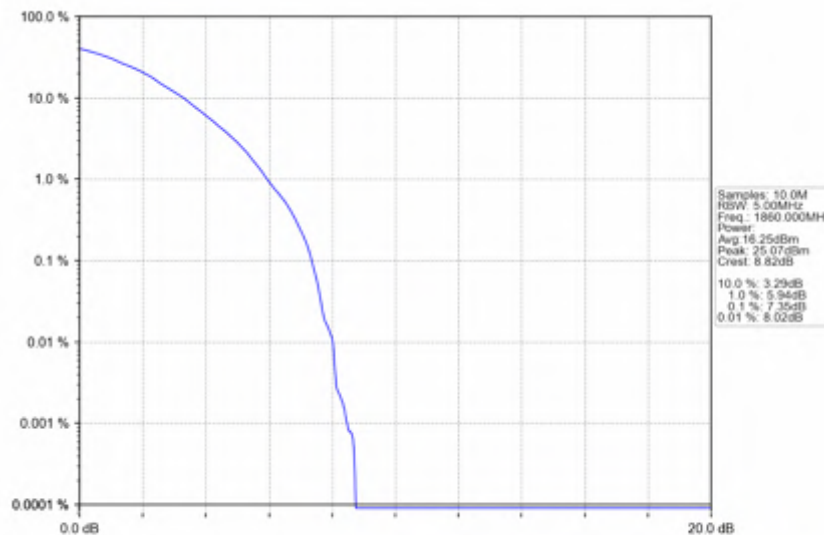
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n25_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64 QAM_1860MHz_Outer_Full



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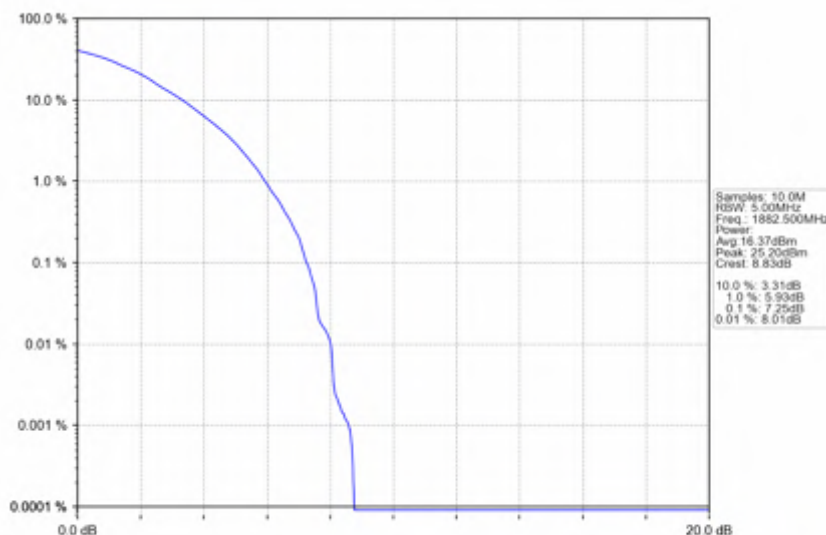
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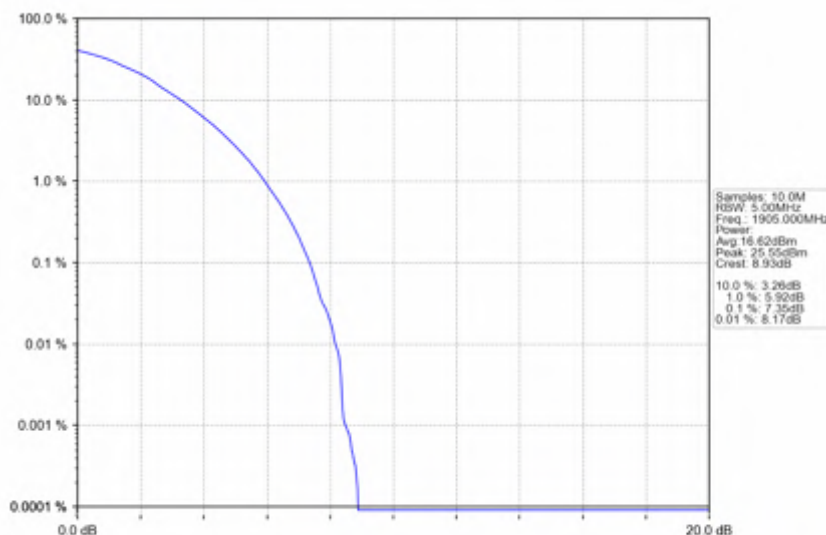
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n25 30kHz SISO NTNV 20MHz DFT-s-OFDM 64 QAM 1882.5MHz Outer Full



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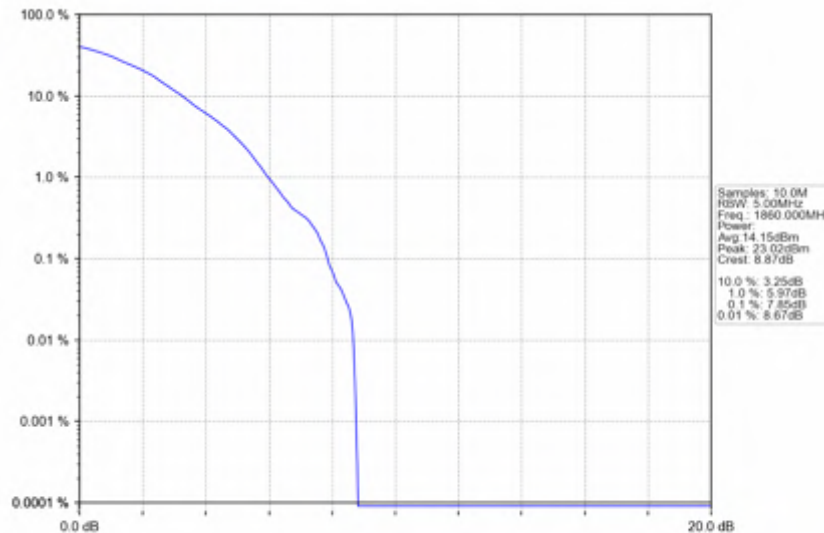


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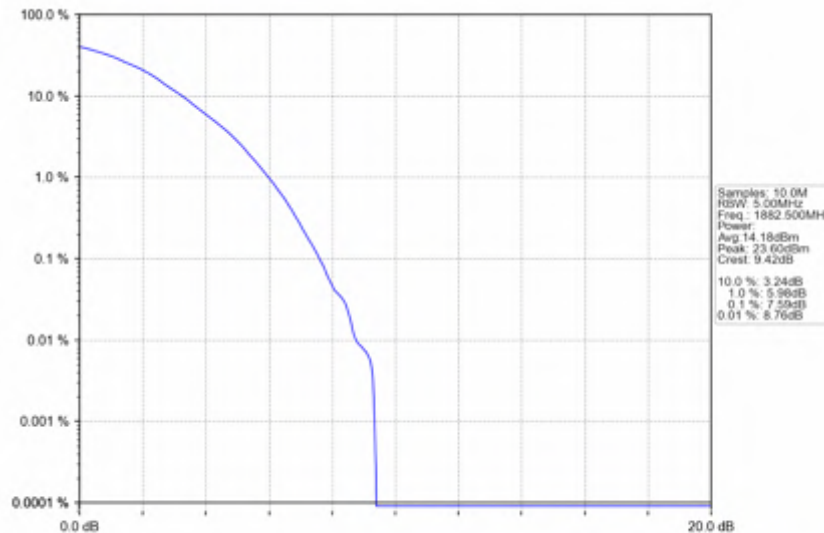
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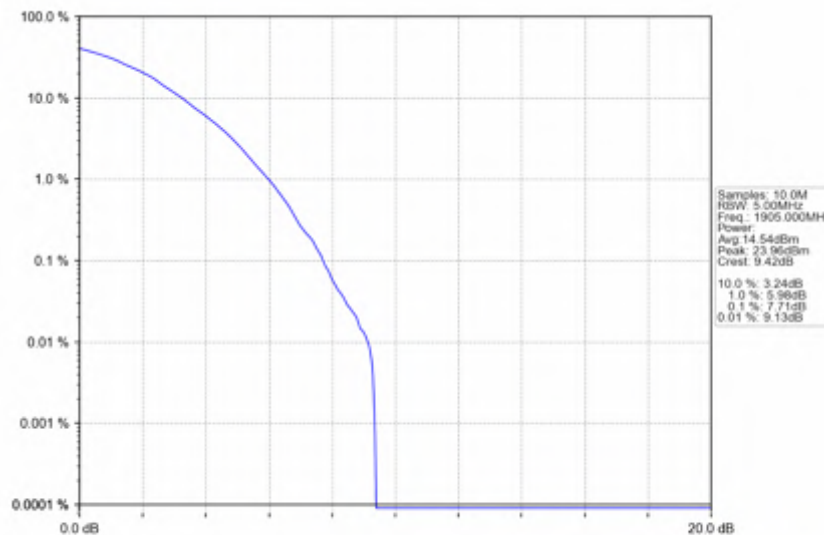
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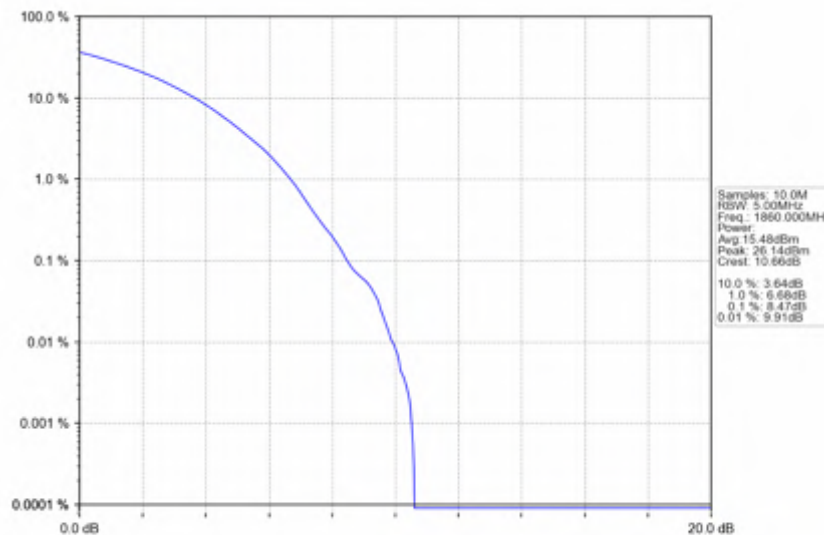
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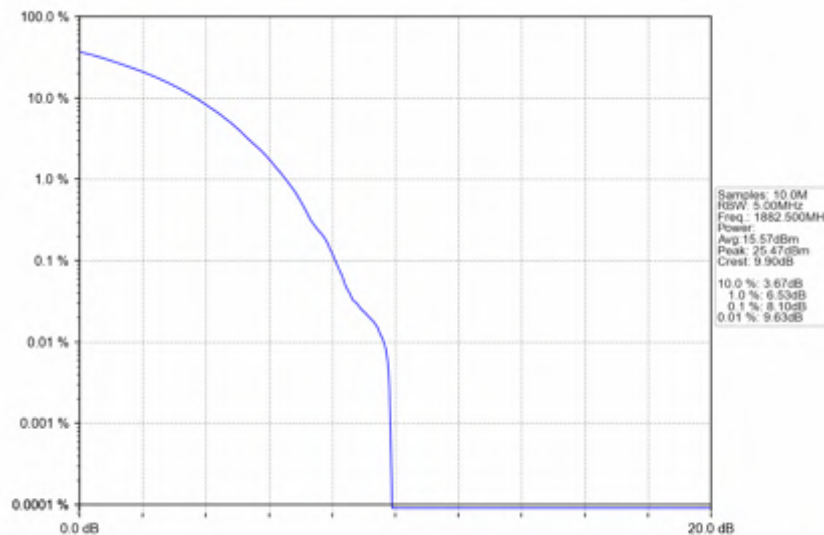
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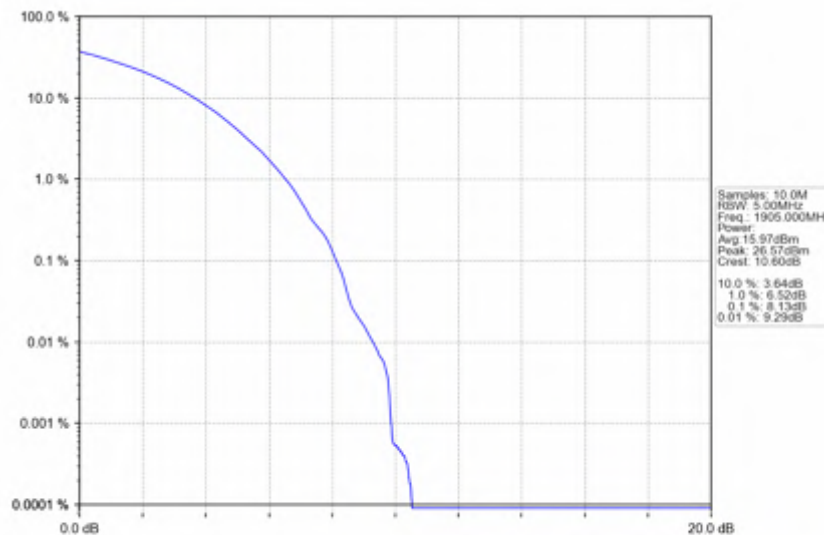
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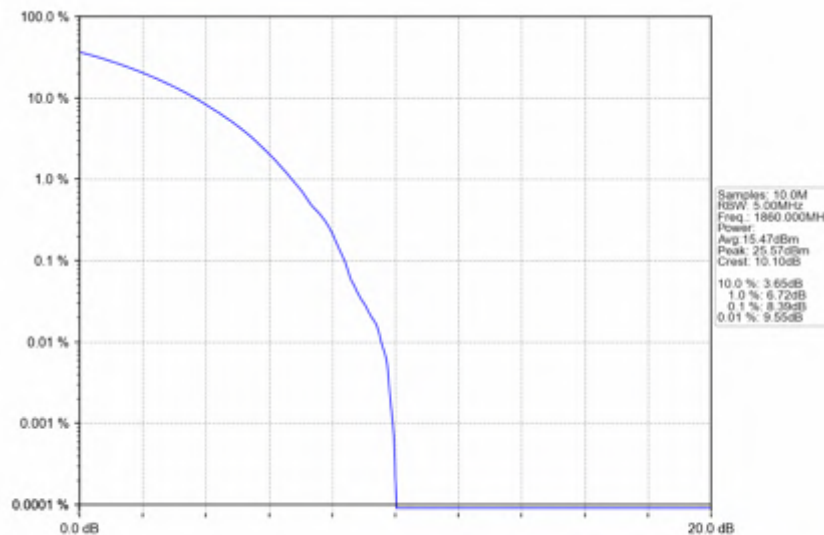


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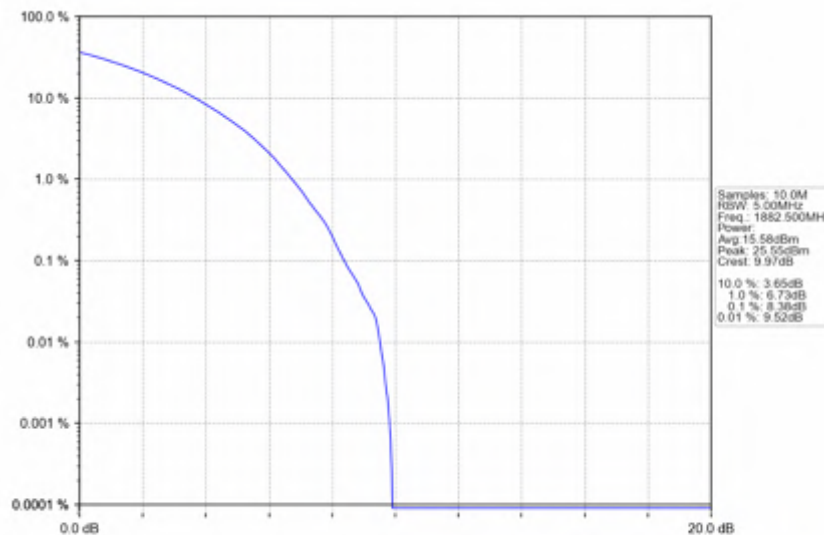
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n25_30kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_1860MHz_Outer_Full



n25_30kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_1882.5MHz_Outer_Full



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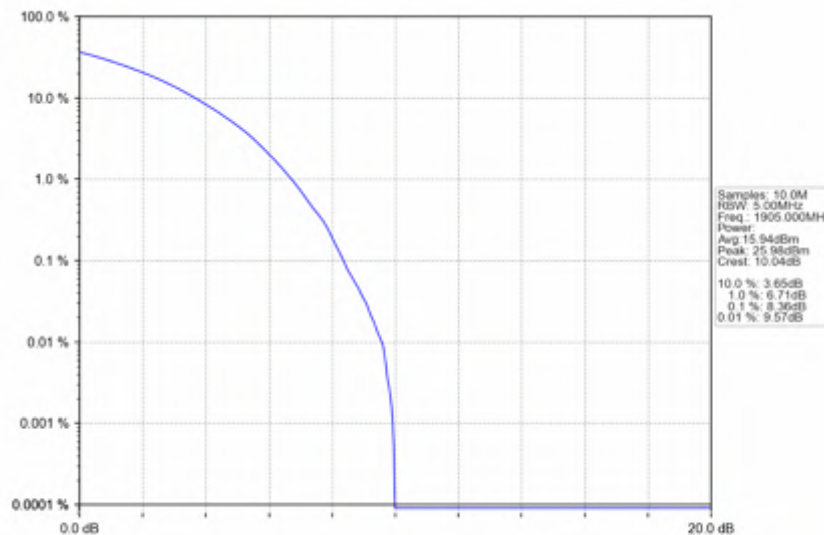
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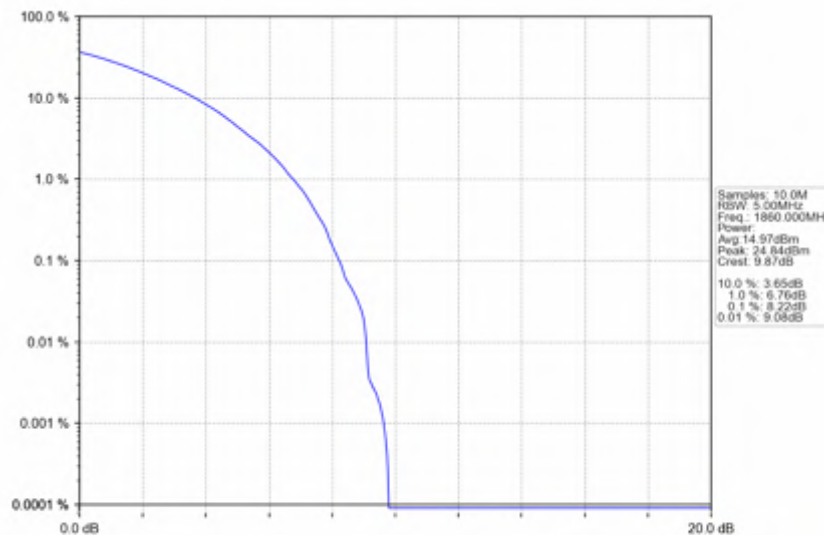
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n25_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_1905MHz_Outer_Full



n25_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_1860MHz_Outer_Full

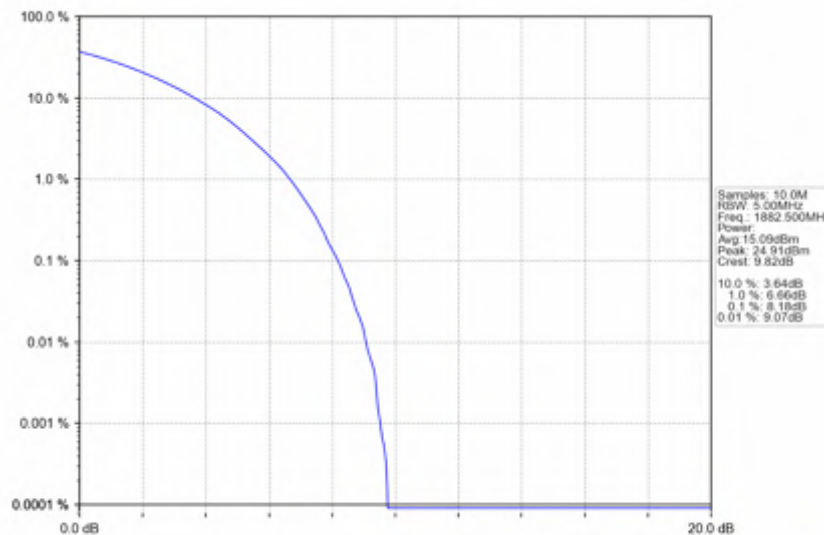


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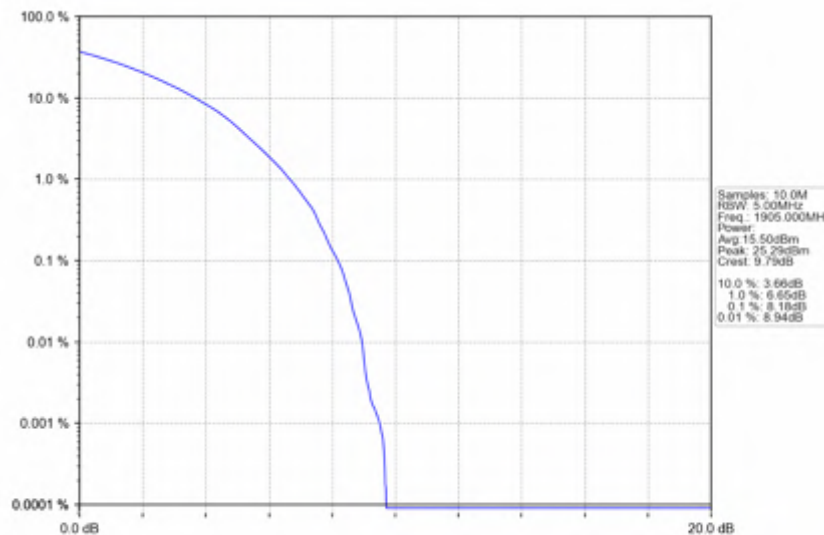
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n25_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_1882.5MHz_Outer_Full



n25_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_1905MHz_Outer_Full



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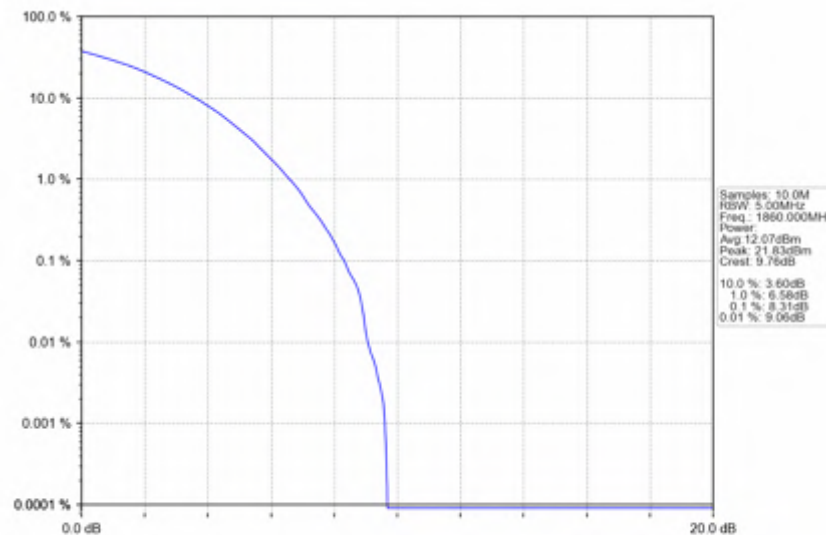
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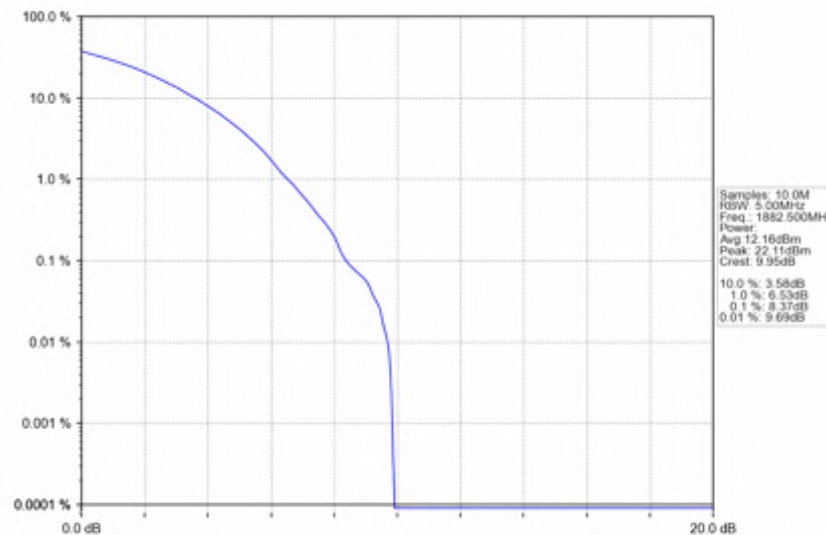
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n25_30kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_1882.5MHz_Outer_Full



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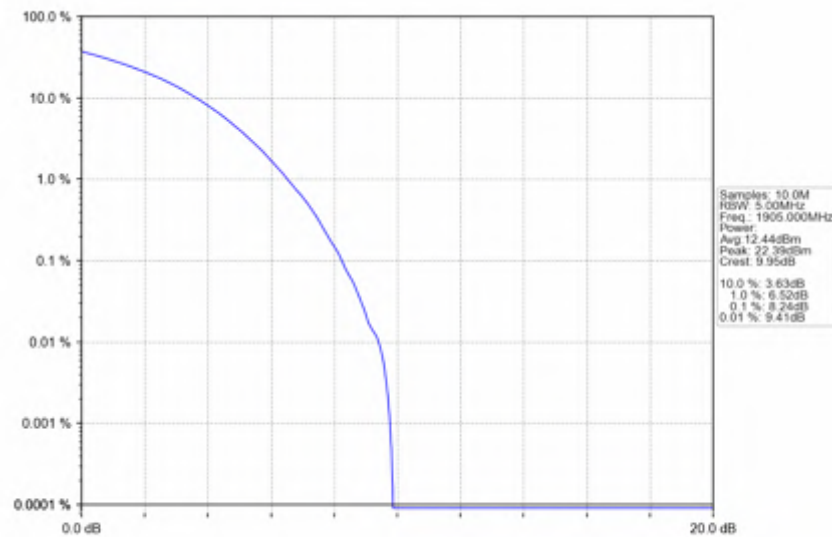
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n25_30kHz_SISO_NTNV_20MHz_CP-OFDM_256 QAM_1905MHz_Outer_Full



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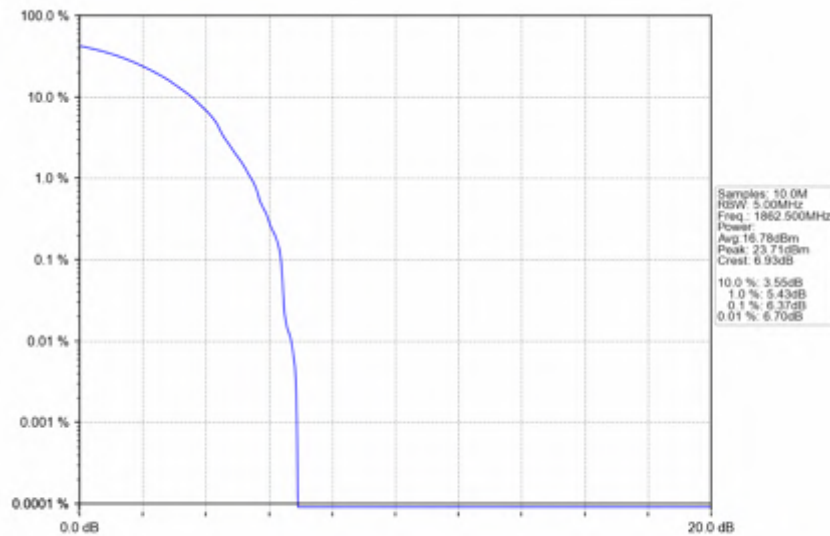
4.11 30k_SISO_25MHz_NTNV

4.11.1 Test Result

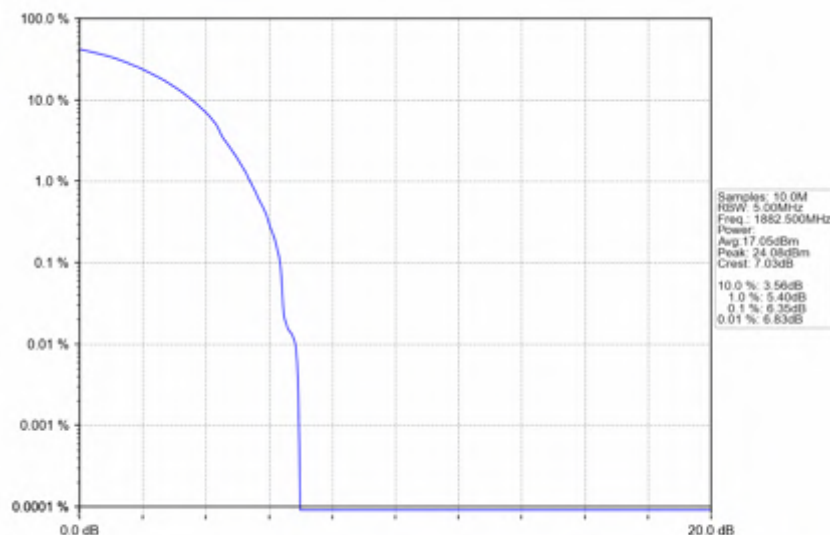
5G NR n25 SCS=30kHz SISO 25MHz NTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	1862.5	Outer_Full	6.37	/	/	<=13	Pass
	1882.5	Outer_Full	6.35	/	/	<=13	Pass
	1902.5	Outer_Full	6.27	/	/	<=13	Pass
DFT-s-OFDM QPSK	1862.5	Outer_Full	7.06	/	/	<=13	Pass
	1882.5	Outer_Full	6.92	/	/	<=13	Pass
	1902.5	Outer_Full	7.03	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1862.5	Outer_Full	7.39	/	/	<=13	Pass
	1882.5	Outer_Full	7.40	/	/	<=13	Pass
	1902.5	Outer_Full	7.45	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1862.5	Outer_Full	7.73	/	/	<=13	Pass
	1882.5	Outer_Full	7.74	/	/	<=13	Pass
	1902.5	Outer_Full	7.49	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1862.5	Outer_Full	7.77	/	/	<=13	Pass
	1882.5	Outer_Full	7.85	/	/	<=13	Pass
	1902.5	Outer_Full	7.37	/	/	<=13	Pass
CP-OFDM QPSK	1862.5	Outer_Full	8.53	/	/	<=13	Pass
	1882.5	Outer_Full	8.45	/	/	<=13	Pass
	1902.5	Outer_Full	8.37	/	/	<=13	Pass
CP-OFDM 16 QAM	1862.5	Outer_Full	8.27	/	/	<=13	Pass
	1882.5	Outer_Full	8.26	/	/	<=13	Pass
	1902.5	Outer_Full	8.27	/	/	<=13	Pass
CP-OFDM 64 QAM	1862.5	Outer_Full	8.86	/	/	<=13	Pass
	1882.5	Outer_Full	8.82	/	/	<=13	Pass
	1902.5	Outer_Full	8.72	/	/	<=13	Pass
CP-OFDM 256 QAM	1862.5	Outer_Full	8.36	/	/	<=13	Pass
	1882.5	Outer_Full	8.41	/	/	<=13	Pass
	1902.5	Outer_Full	8.45	/	/	<=13	Pass

4.11.2 Test Graph

n25	30kHz	SISO	NTNV	25MHz	DFT-s-OFDM	PI/2 BPSK	1862.5MHz	Outer	Full
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n25 30kHz SISO NTV 25MHz DFT-s-OFDM PI/2 BPSK 1882.5MHz Outer Full

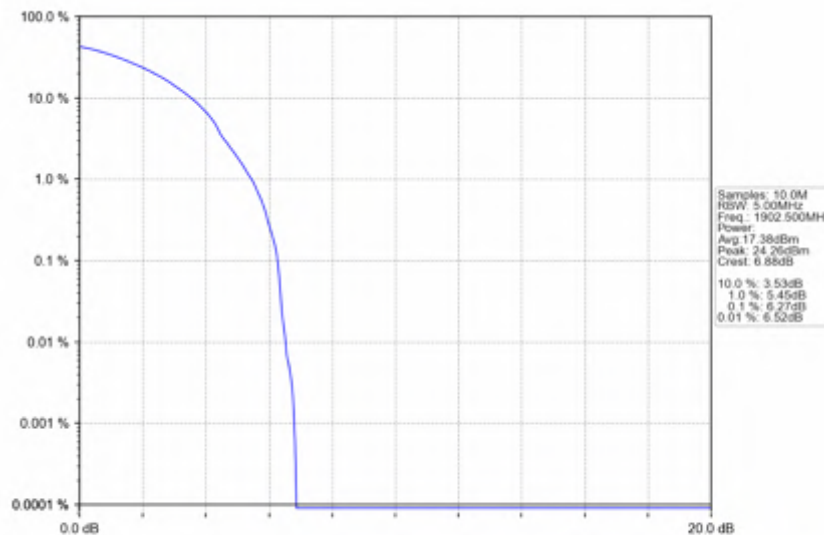


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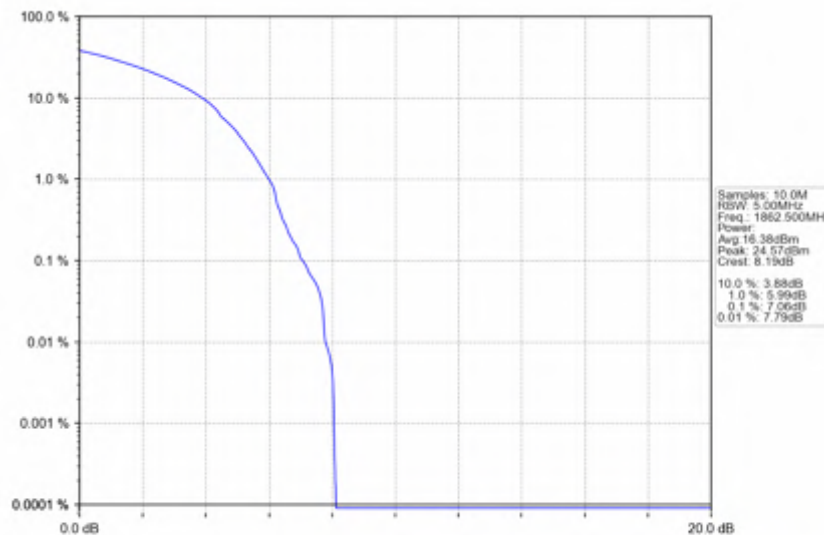
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n25_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_1862.5MHz_Outer_Full

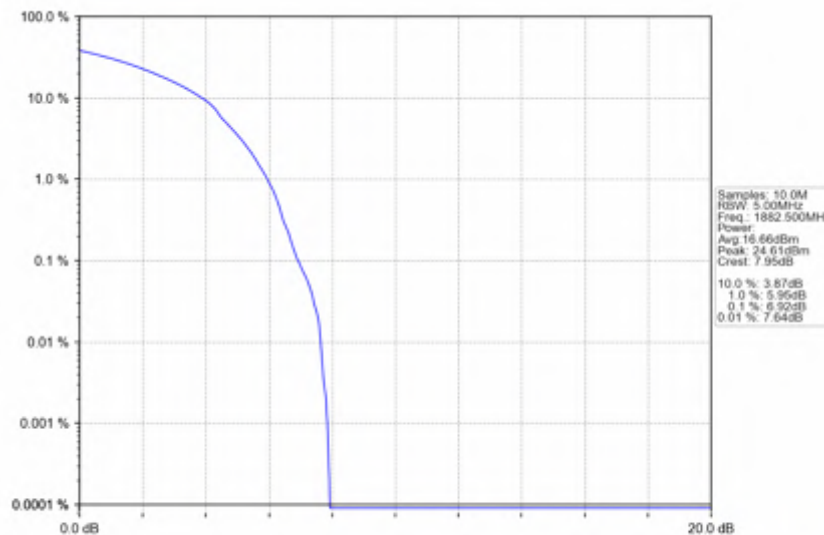


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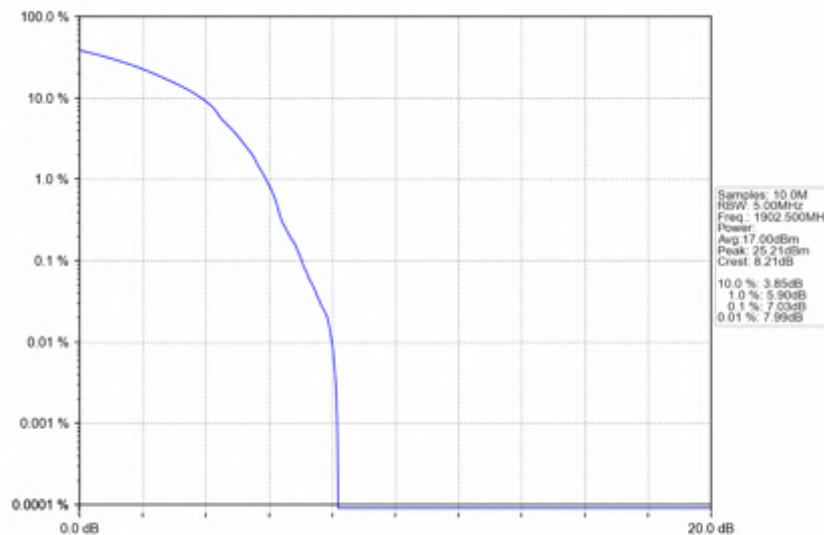
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n25_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_1902.5MHz_Outer_Full



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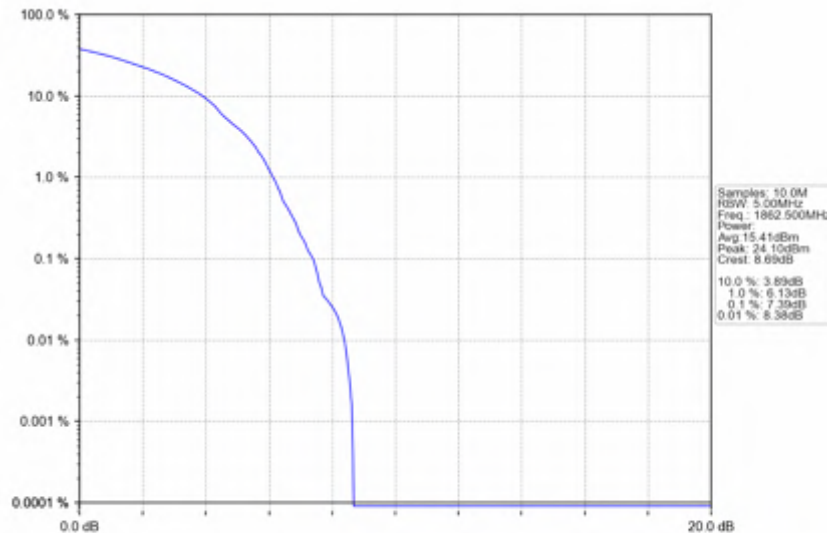
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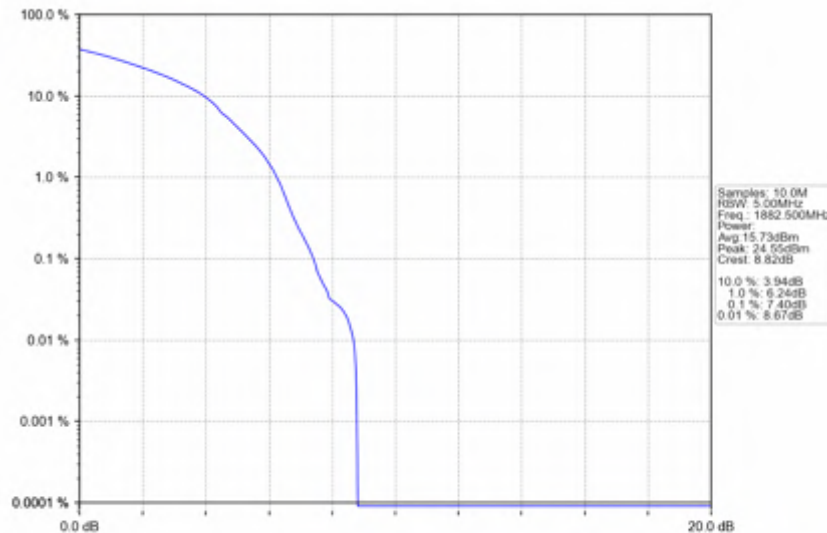
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n25_30kHz_SISO_NTV_25MHz_DFT-s-OFDM_16_QAM_1882.5MHz_Outer_Full

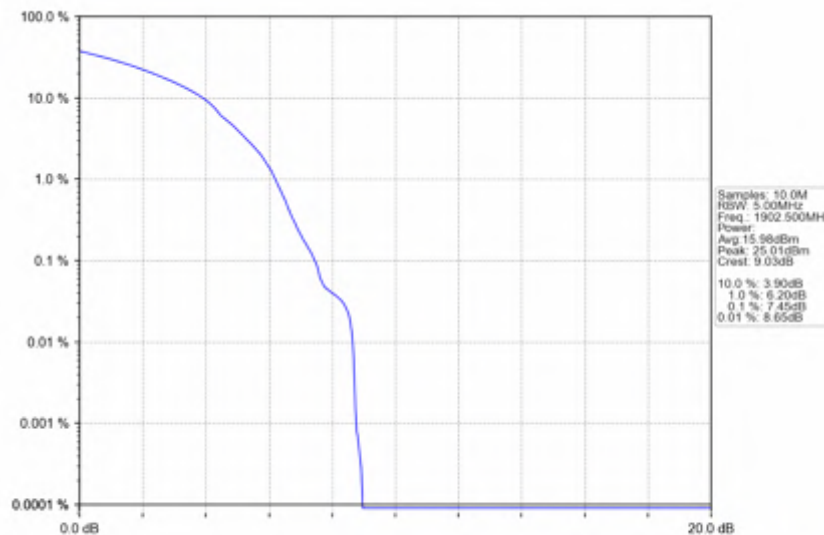


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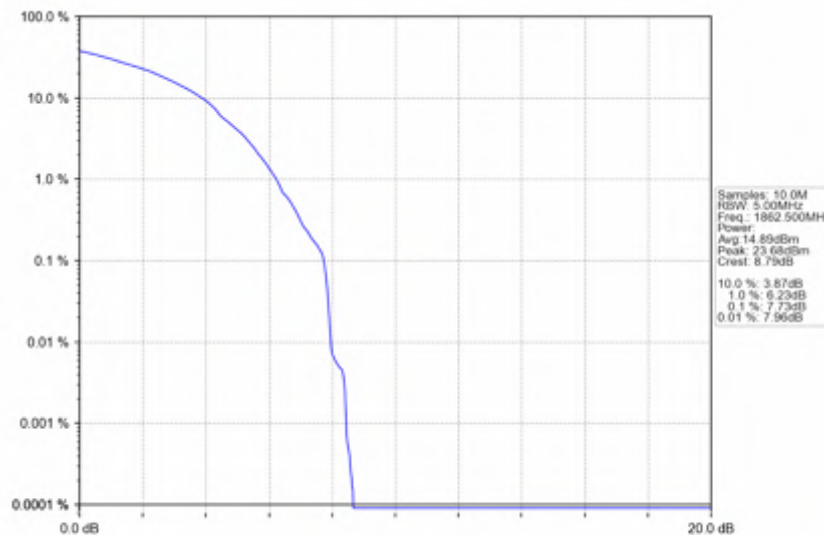
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n25_30kHz_SISO_NTV_25MHz_DFT-s-OFDM 64 QAM_1862.5MHz_Outer_Full

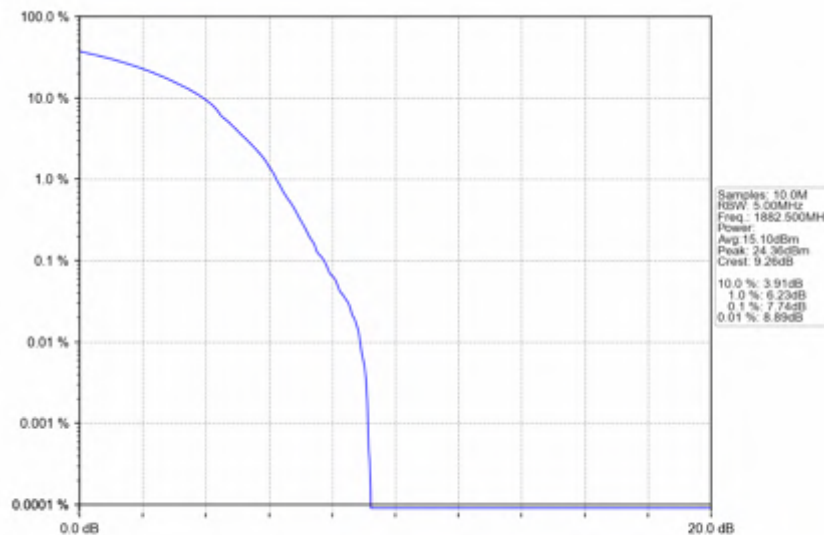


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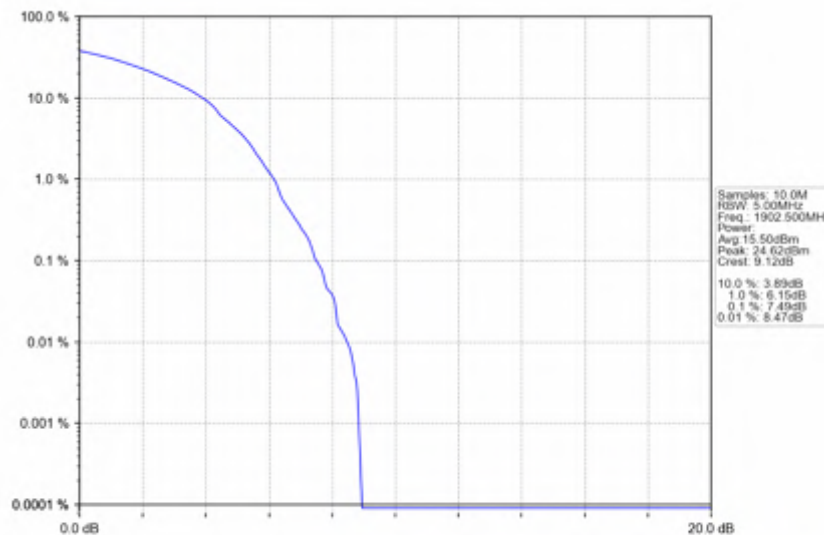
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n25_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_64_QAM_1882.5MHz_Outer_Full



n25_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_64_QAM_1902.5MHz_Outer_Full

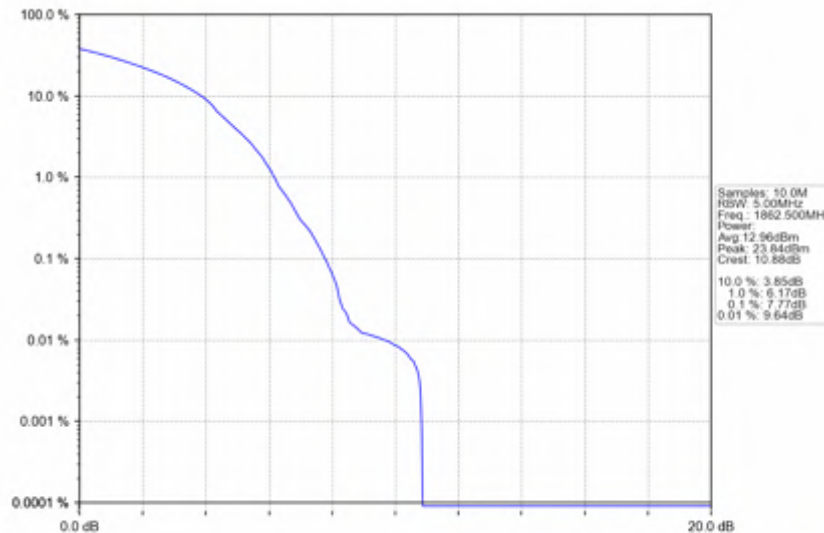


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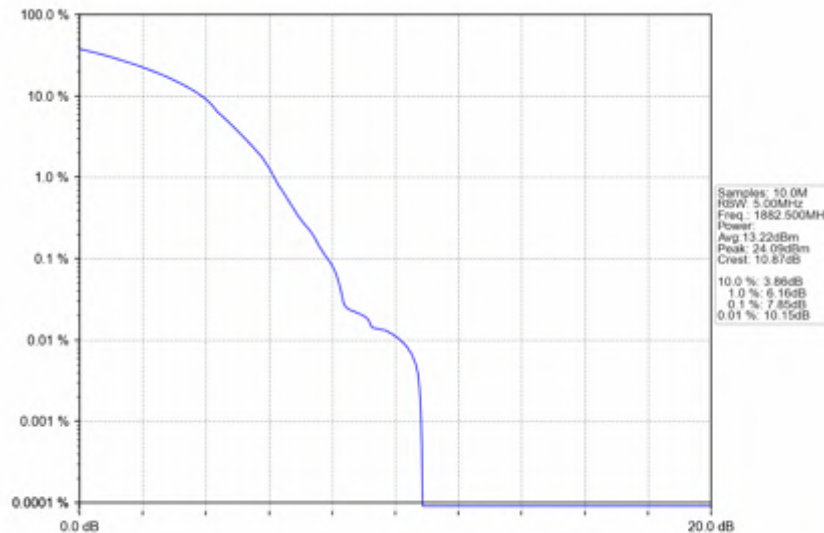
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n25_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_256_QAM_1862.5MHz_Outer_Full



n25_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_256_QAM_1882.5MHz_Outer_Full

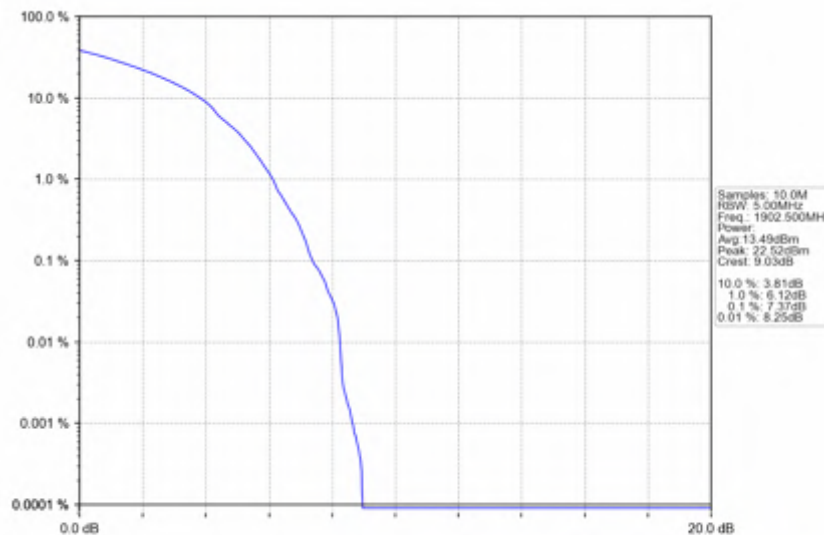


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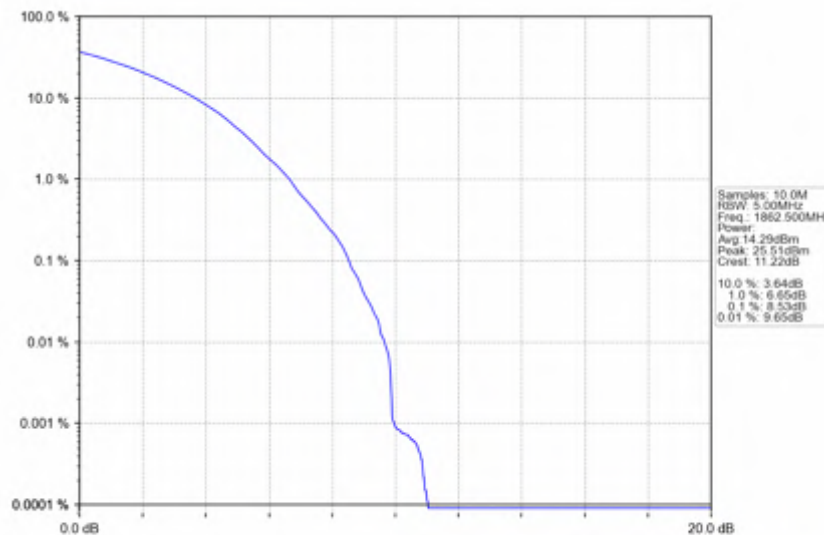
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n25_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_256_QAM_1902.5MHz_Outer_Full



n25_30kHz_SISO_NTNV_25MHz_CP-OFDM_QPSK_1862.5MHz_Outer_Full



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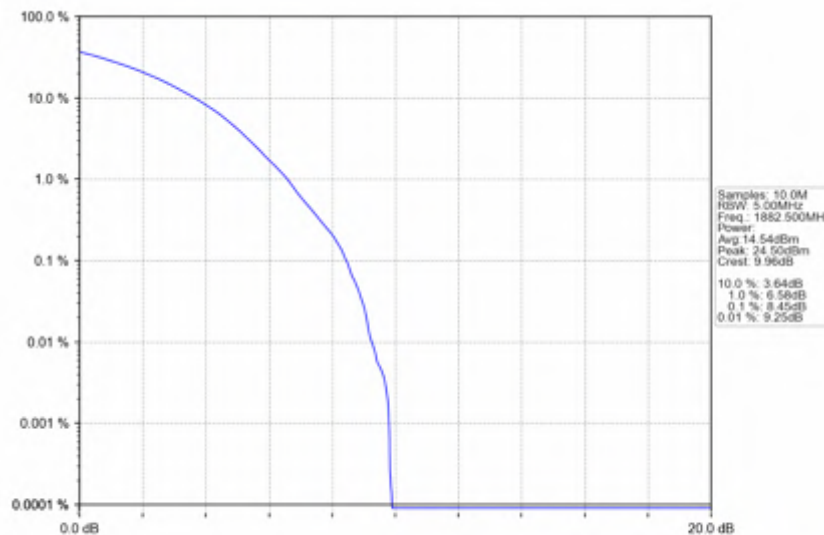
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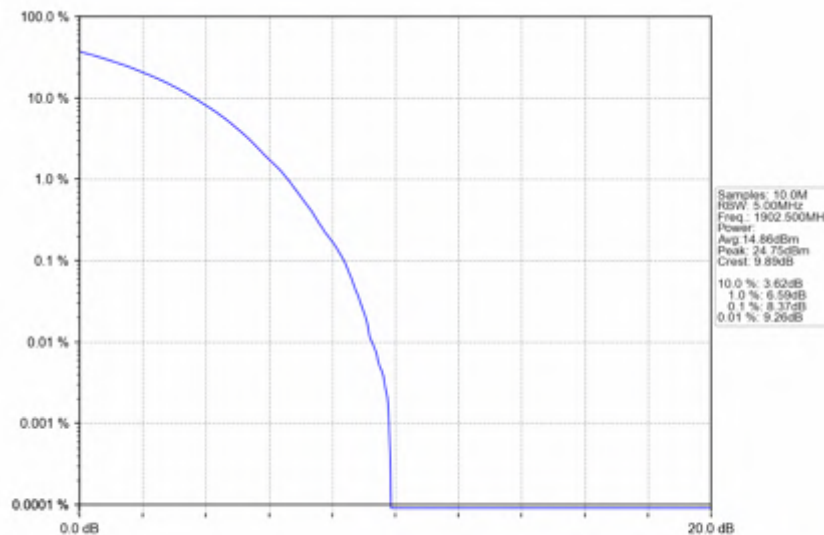
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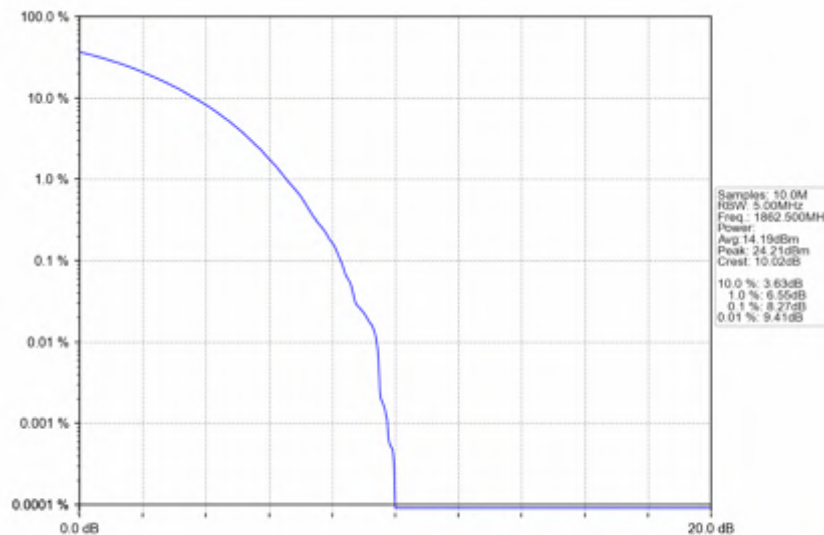
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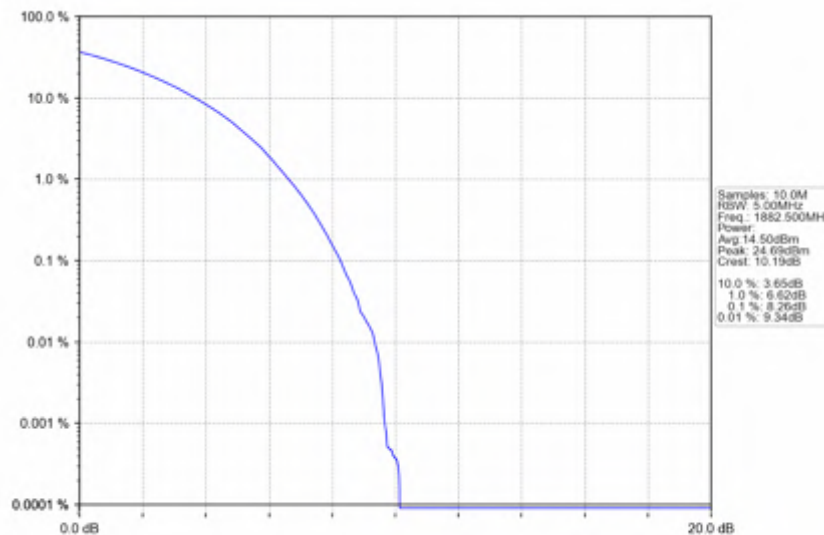
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n25_30kHz_SISO_NTNV_25MHz_CP-OFDM_16_QAM_1862.5MHz_Outer_Full



n25_30kHz_SISO_NTNV_25MHz_CP-OFDM_16_QAM_1882.5MHz_Outer_Full

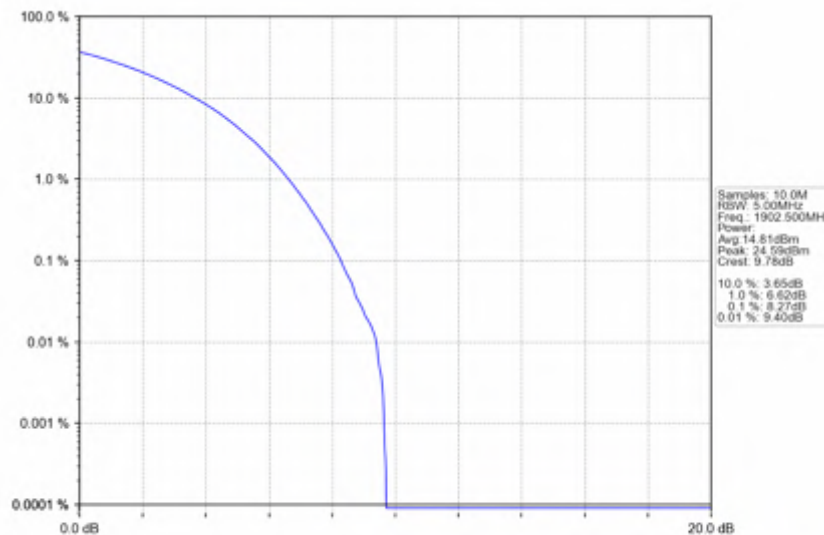


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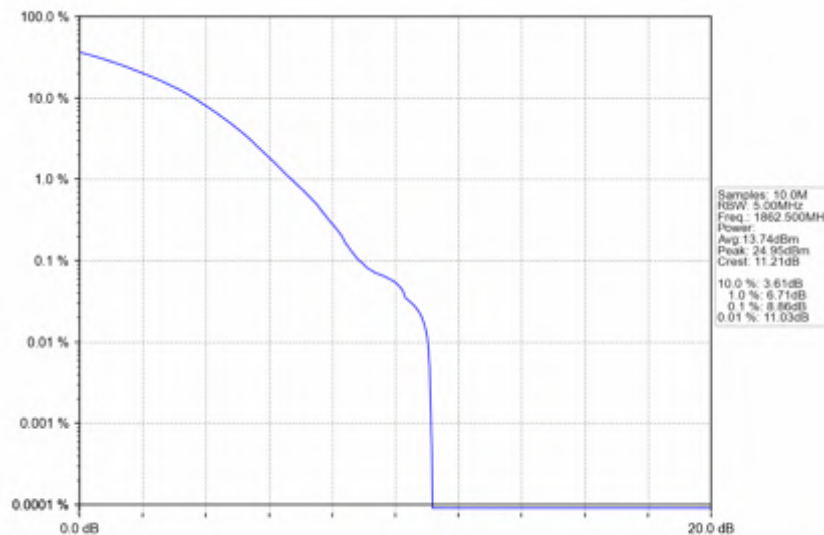
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n25_30kHz_SISO_NTNV_25MHz_CP-OFDM 16 QAM_1902.5MHz_Outer_Full



n25_30kHz_SISO_NTNV_25MHz_CP-OFDM 64 QAM_1862.5MHz_Outer_Full



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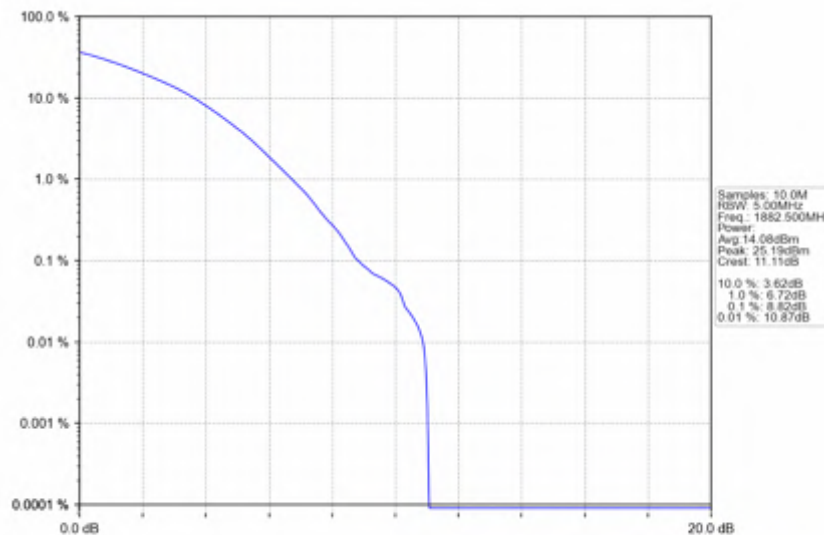
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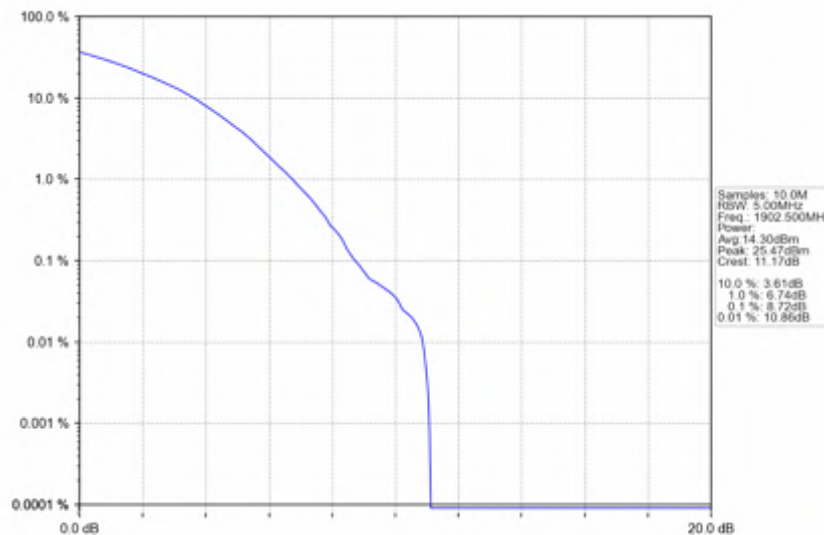
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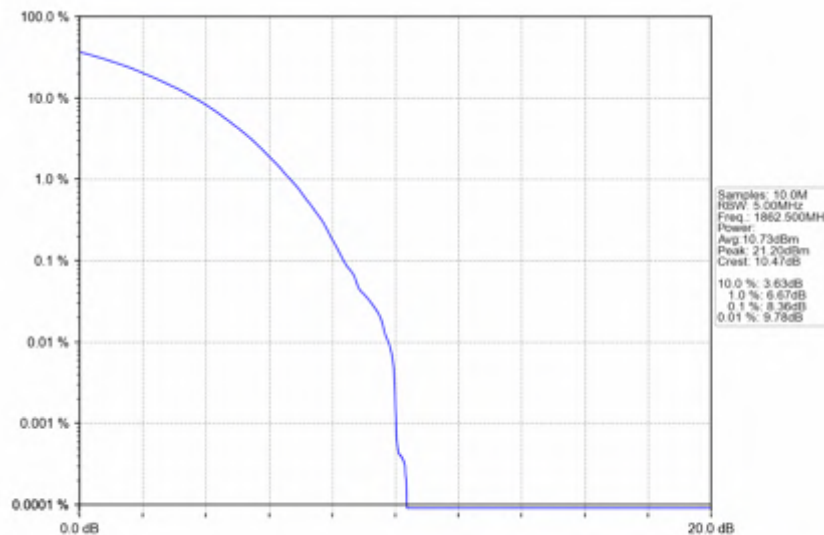


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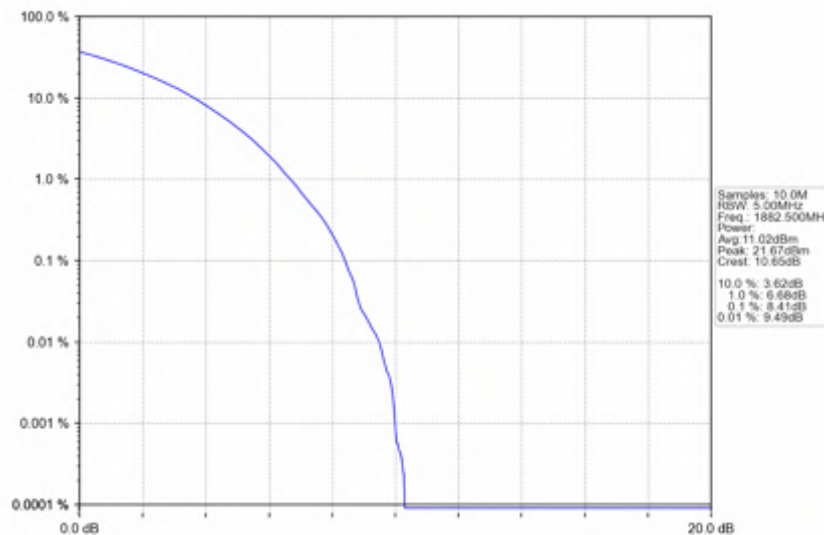
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n25_30kHz_SISO_NTNV_25MHz_CP-OFDM_256_QAM_1862.5MHz_Outer_Full



n25_30kHz_SISO_NTNV_25MHz_CP-OFDM_256_QAM_1882.5MHz_Outer_Full



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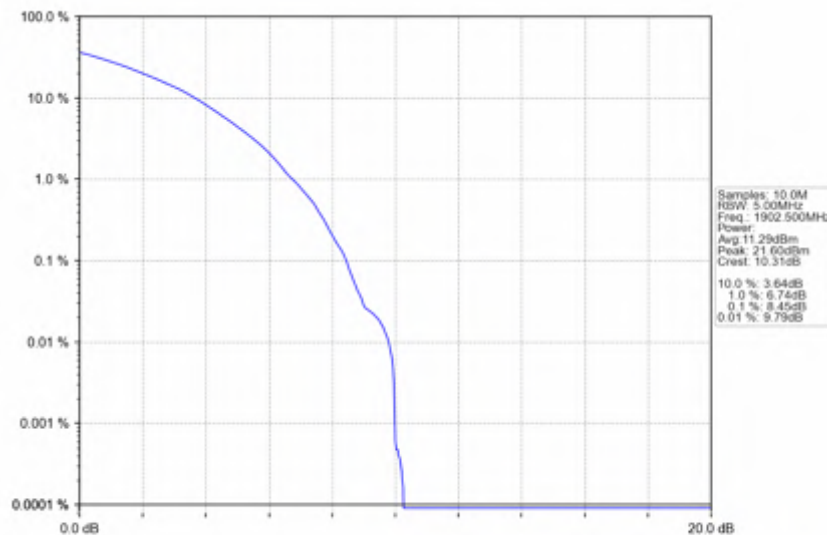
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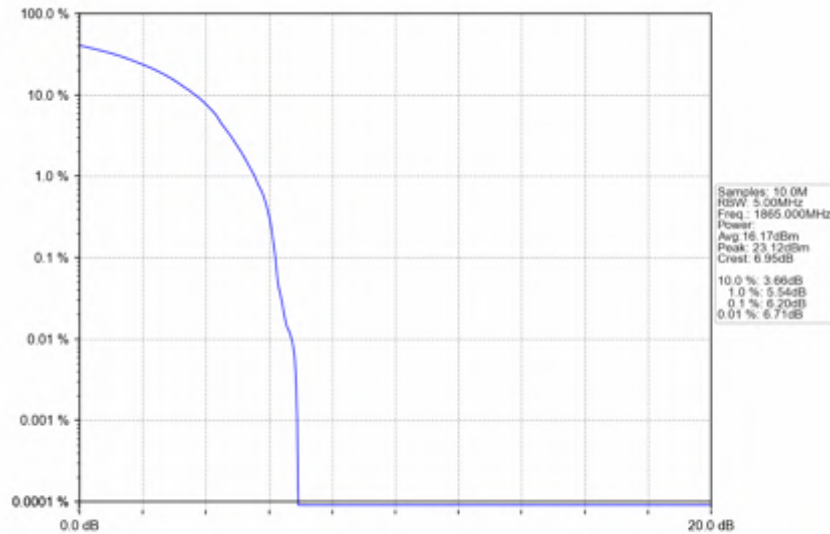
4.12 30k_SISO_30MHz_NTNV

4.12.1 Test Result

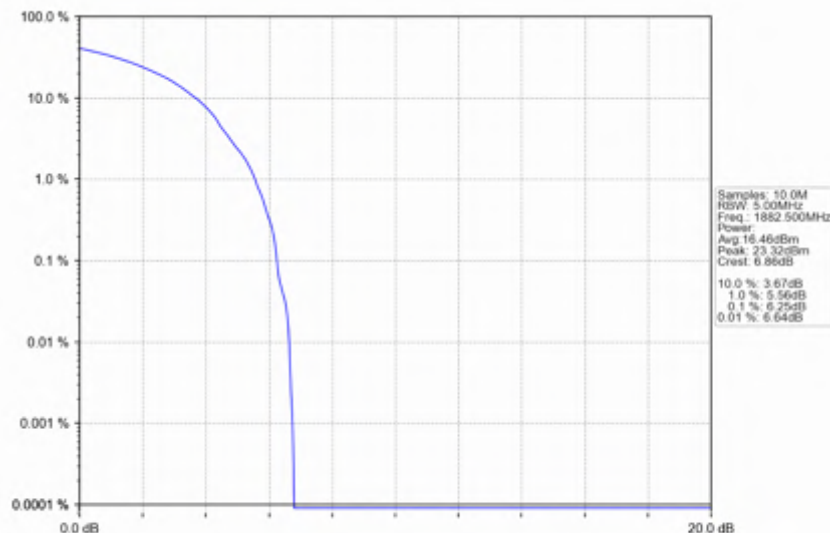
5G NR n25 SCS=30kHz SISO 30MHz NTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	1865	Outer_Full	6.20	/	/	<=13	Pass
	1882.5	Outer_Full	6.25	/	/	<=13	Pass
	1900	Outer_Full	6.21	/	/	<=13	Pass
DFT-s-OFDM QPSK	1865	Outer_Full	7.12	/	/	<=13	Pass
	1882.5	Outer_Full	7.24	/	/	<=13	Pass
	1900	Outer_Full	7.17	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1865	Outer_Full	7.70	/	/	<=13	Pass
	1882.5	Outer_Full	7.78	/	/	<=13	Pass
	1900	Outer_Full	7.57	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1865	Outer_Full	7.90	/	/	<=13	Pass
	1882.5	Outer_Full	7.83	/	/	<=13	Pass
	1900	Outer_Full	7.64	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1865	Outer_Full	7.76	/	/	<=13	Pass
	1882.5	Outer_Full	7.96	/	/	<=13	Pass
	1900	Outer_Full	7.75	/	/	<=13	Pass
CP-OFDM QPSK	1865	Outer_Full	8.59	/	/	<=13	Pass
	1882.5	Outer_Full	8.38	/	/	<=13	Pass
	1900	Outer_Full	8.46	/	/	<=13	Pass
CP-OFDM 16 QAM	1865	Outer_Full	8.41	/	/	<=13	Pass
	1882.5	Outer_Full	8.40	/	/	<=13	Pass
	1900	Outer_Full	8.36	/	/	<=13	Pass
CP-OFDM 64 QAM	1865	Outer_Full	8.44	/	/	<=13	Pass
	1882.5	Outer_Full	8.41	/	/	<=13	Pass
	1900	Outer_Full	8.20	/	/	<=13	Pass
CP-OFDM 256 QAM	1865	Outer_Full	8.50	/	/	<=13	Pass
	1882.5	Outer_Full	8.56	/	/	<=13	Pass
	1900	Outer_Full	8.53	/	/	<=13	Pass

4.12.2 Test Graph

n25_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_PI/2_BPSK_1865MHz_Outer_Full



n25_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_PI/2_BPSK_1882.5MHz_Outer_Full



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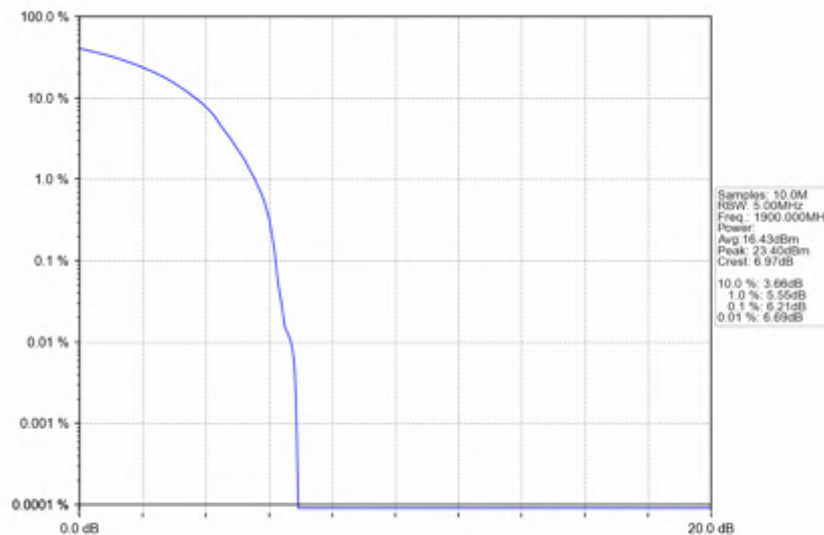
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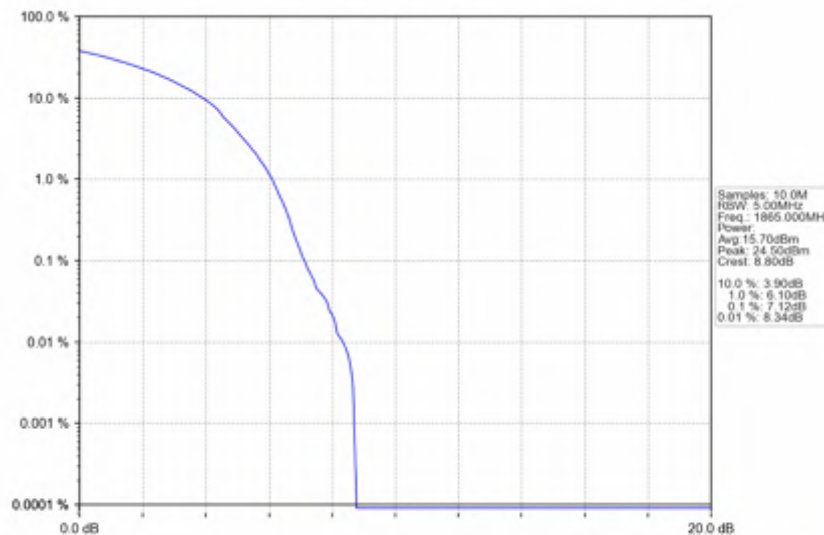
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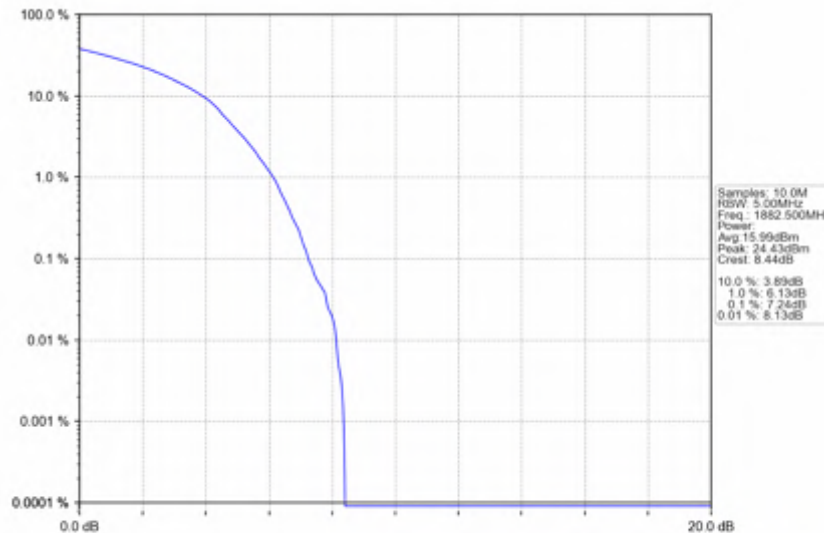
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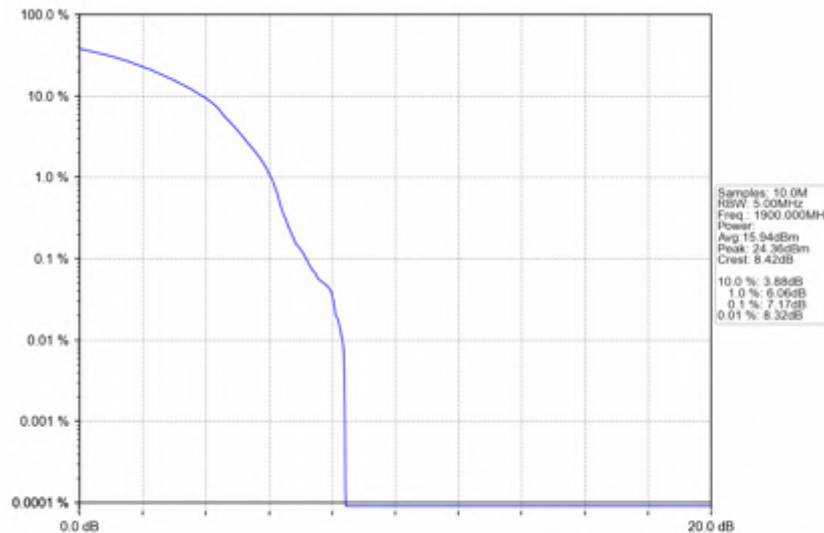
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n25_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_1882.5MHz_Outer_Full



n25_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_1900MHz_Outer_Full

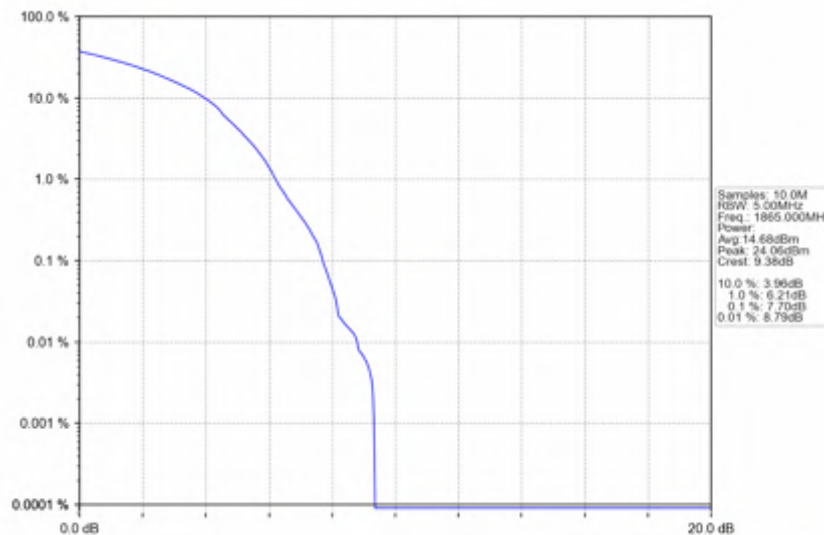


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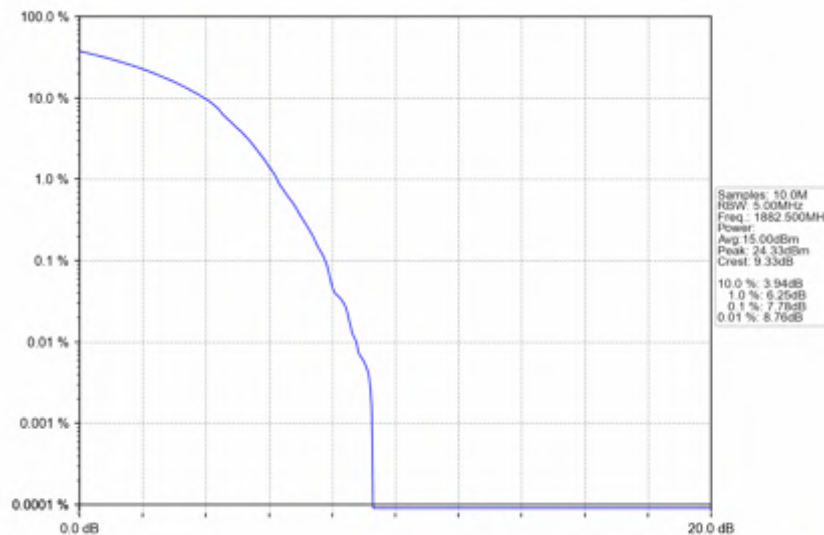
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n25_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_1865MHz_Outer_Full



n25_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_1882.5MHz_Outer_Full

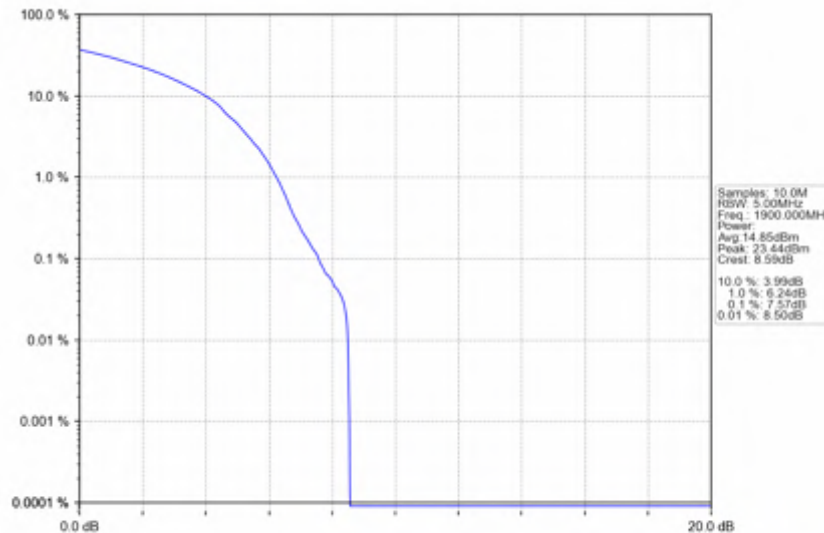


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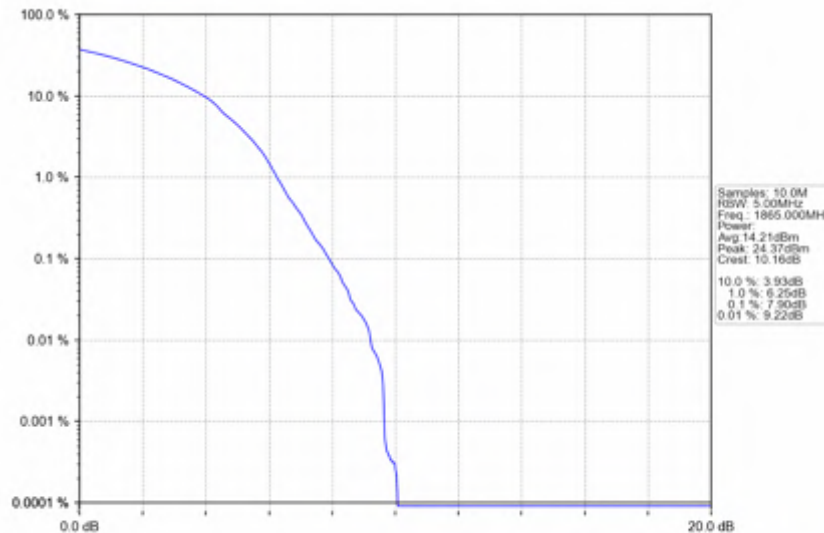
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n25_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_1900MHz_Outer_Full



n25_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_1865MHz_Outer_Full

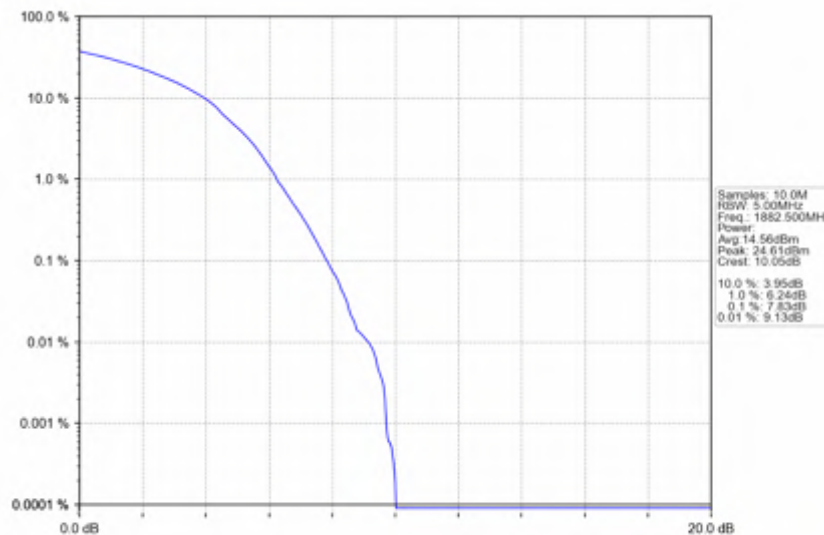


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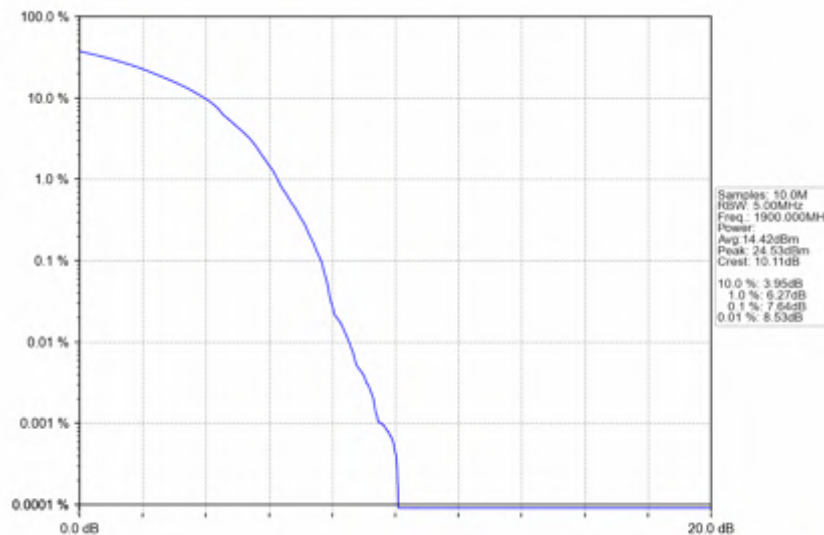
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n25_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_1882.5MHz_Outer_Full



n25_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_1900MHz_Outer_Full



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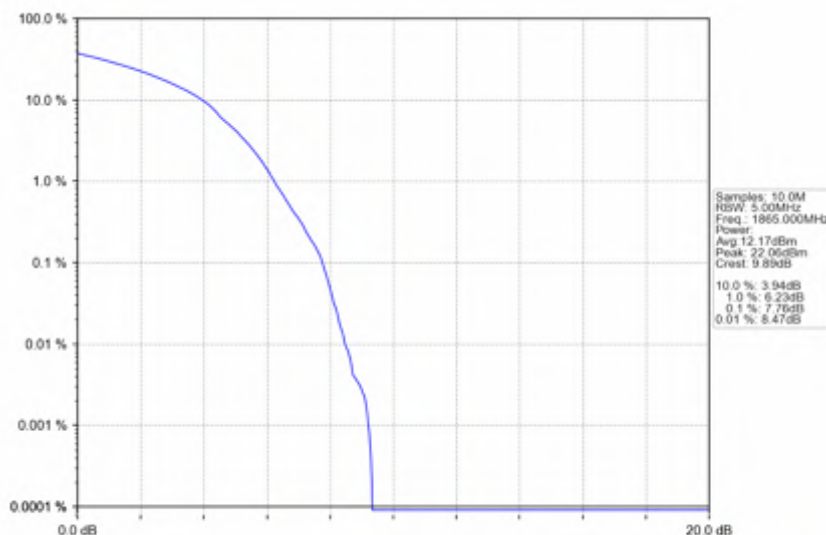
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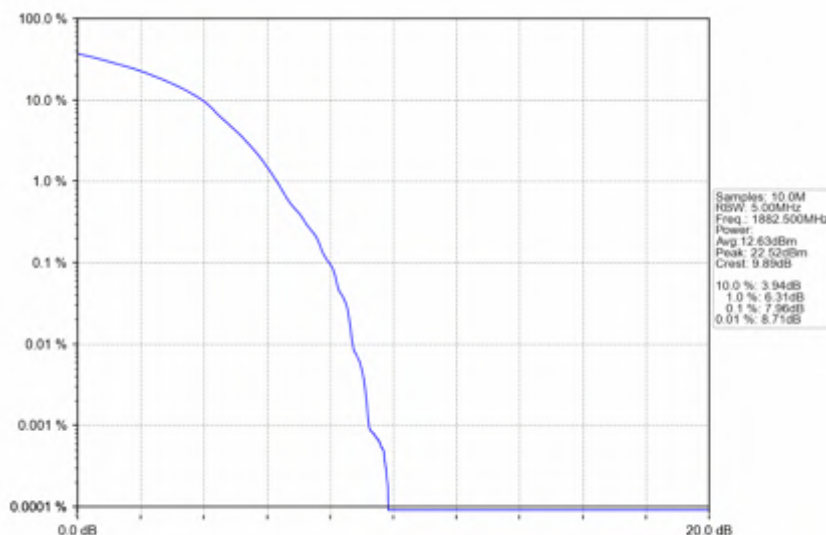
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n25 30kHz SISO NTNv 30MHz DFT-s-OFDM 256 QAM 1865MHz Outer Full



n25	30kHz	SISO	NTNV	30MHz	DFT-s-OFDM	256 QAM	1882.5MHz	Outer	Full
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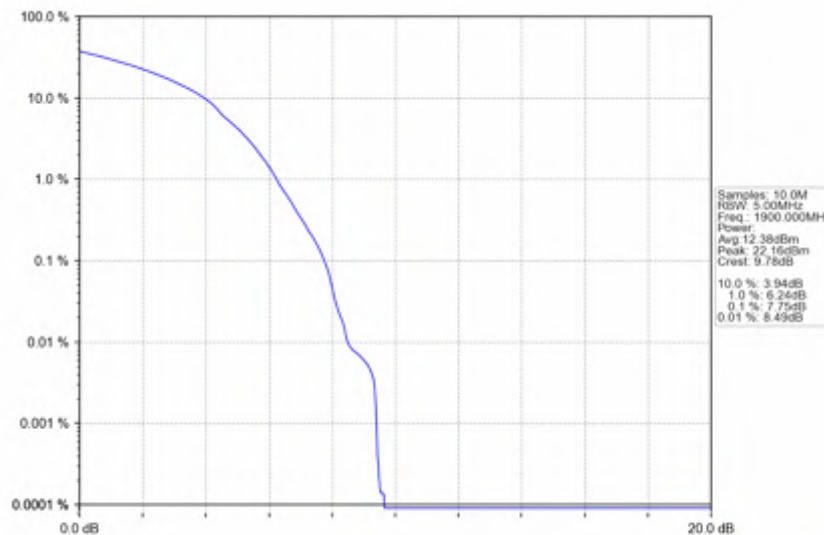


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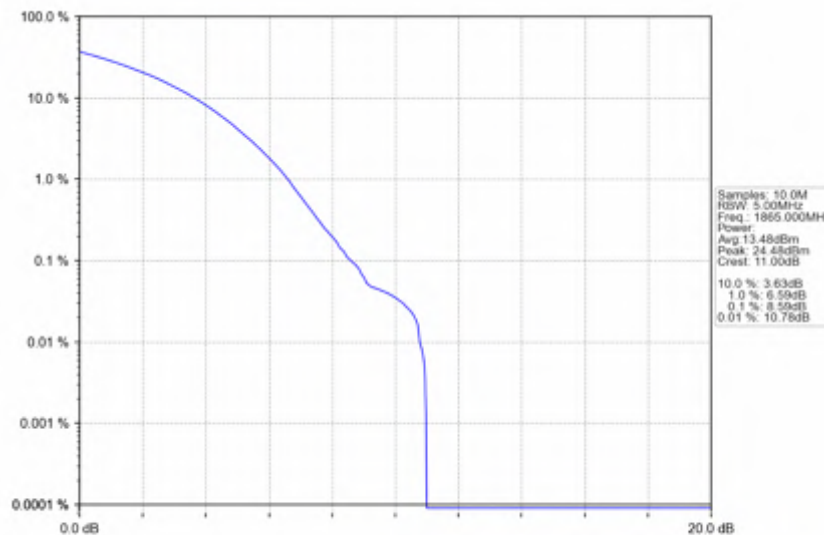
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n25_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 256 QAM_1900MHz_Outer_Full



n25_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_1865MHz_Outer_Full

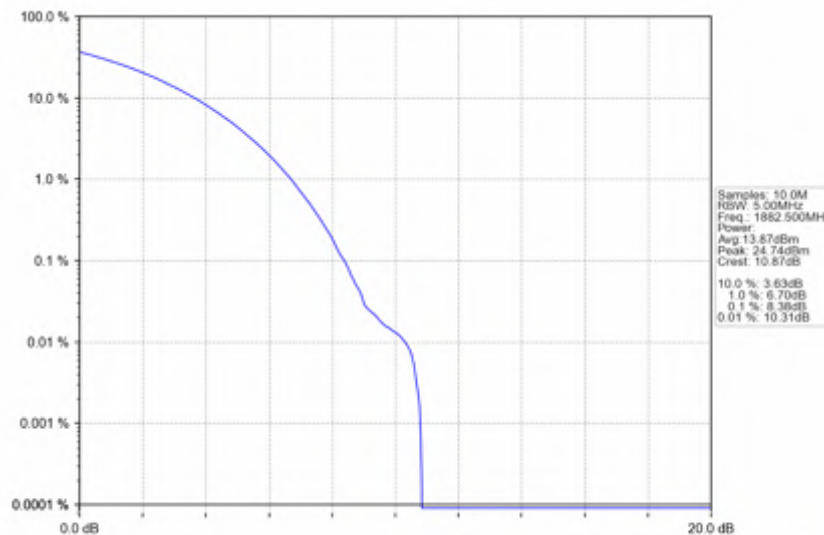


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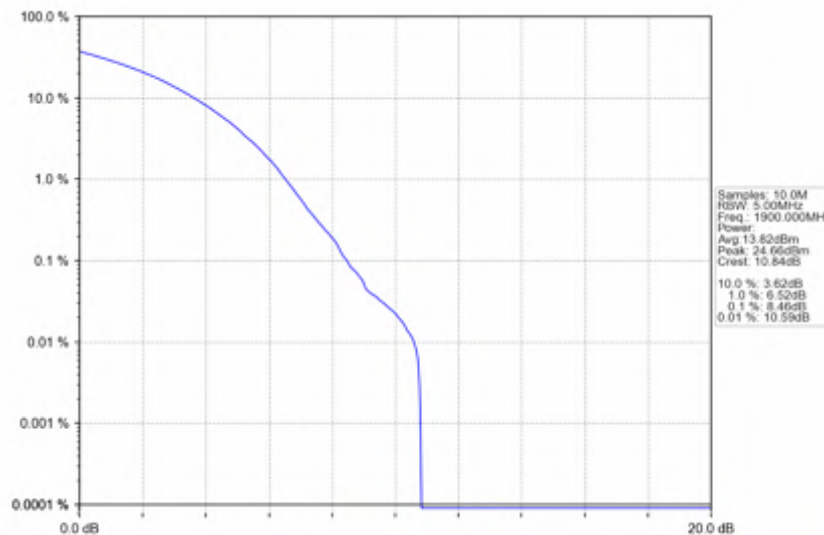
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n25_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_1882.5MHz_Outer_Full



n25_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_1900MHz_Outer_Full

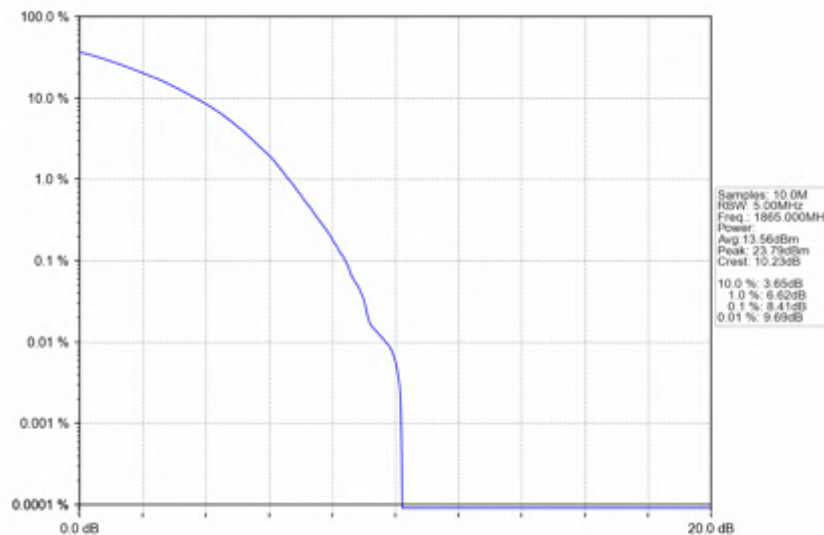


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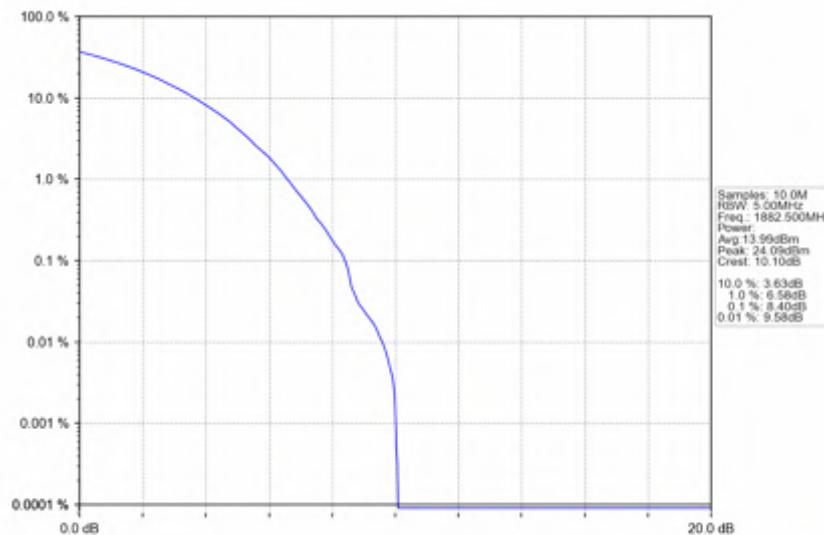
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n25_30kHz_SISO_NTNV_30MHz_CP-OFDM_16_QAM_1865MHz_Outer_Full



n25_30kHz_SISO_NTNV_30MHz_CP-OFDM_16_QAM_1882.5MHz_Outer_Full



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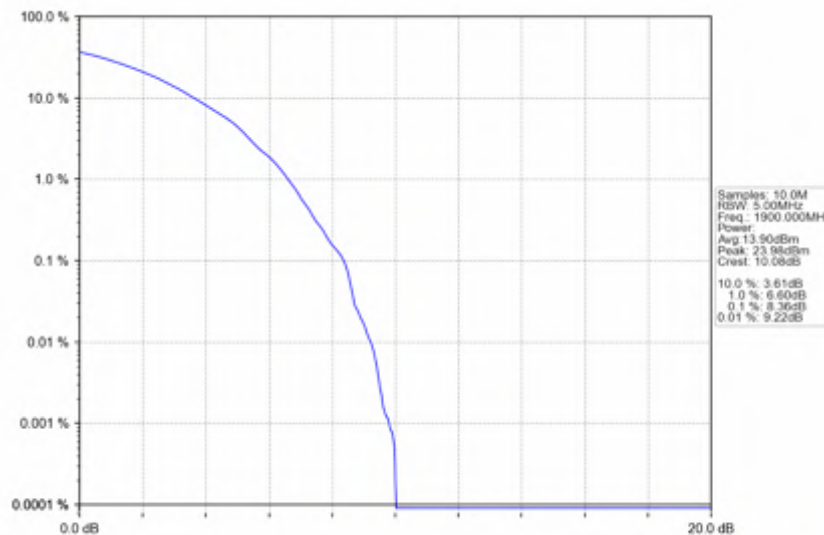
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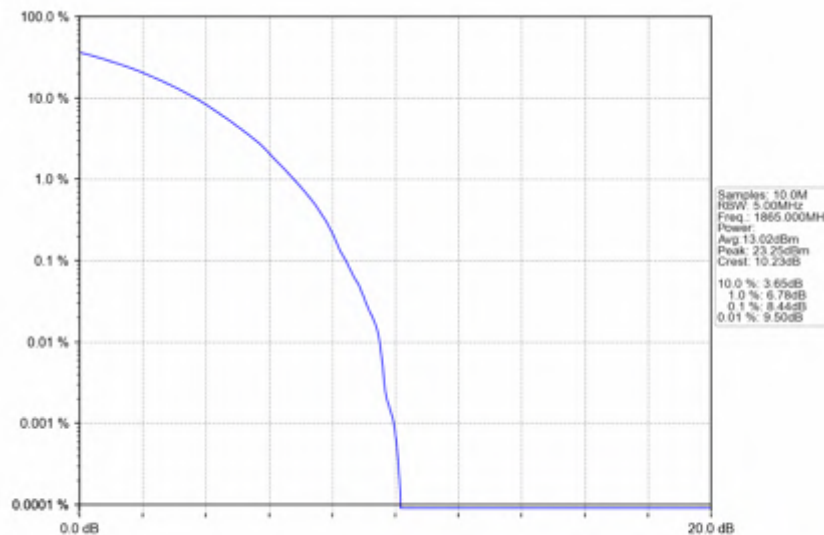
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n25_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_1865MHz_Outer_Full

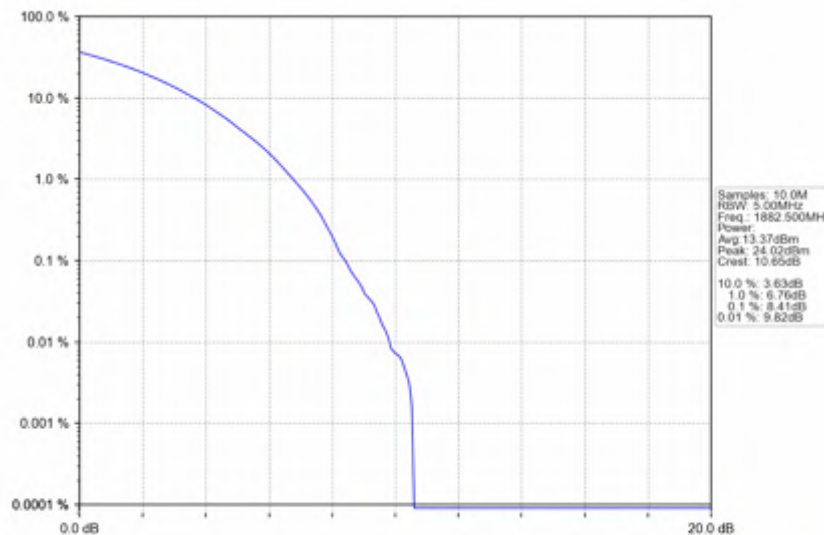


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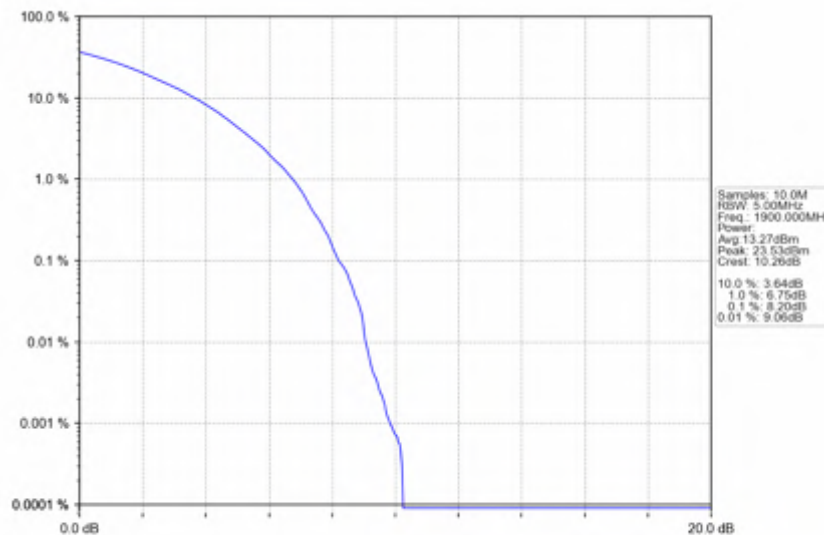
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n25_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_1900MHz_Outer_Full

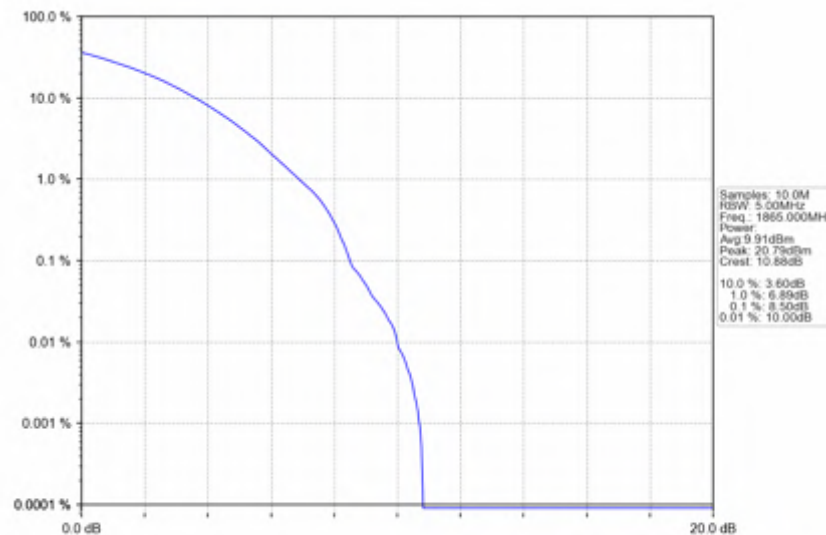


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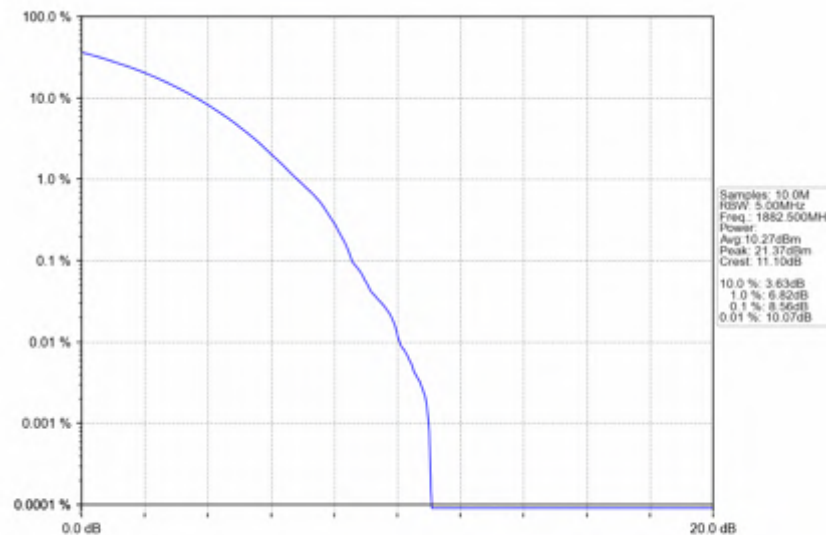
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n25_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_1882.5MHz_Outer_Full

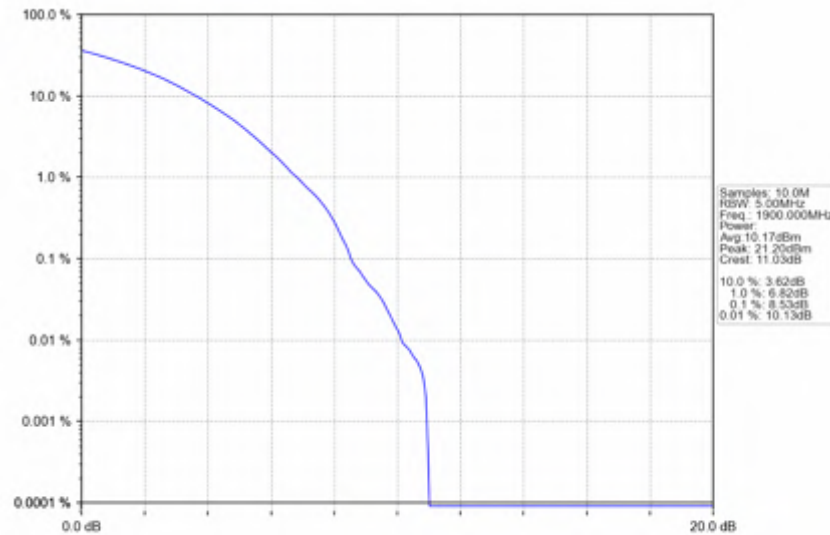


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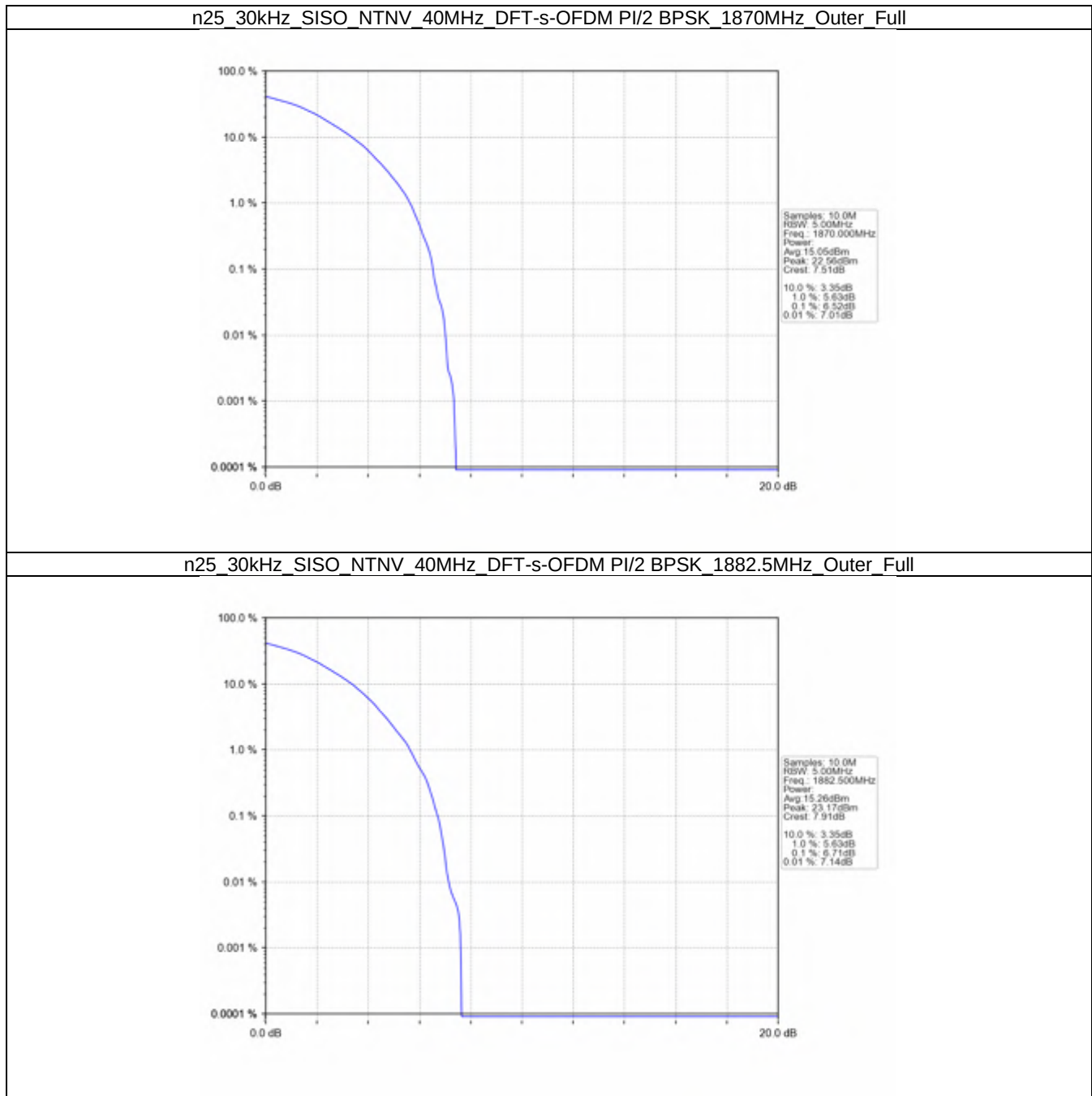
4.13 30k_SISO_40MHz_NTNV

4.13.1 Test Result

5G NR n25 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	1870	Outer_Full	6.52	/	/	<=13	Pass
	1882.5	Outer_Full	6.71	/	/	<=13	Pass
	1895	Outer_Full	6.70	/	/	<=13	Pass
DFT-s-OFDM QPSK	1870	Outer_Full	7.58	/	/	<=13	Pass
	1882.5	Outer_Full	7.58	/	/	<=13	Pass
	1895	Outer_Full	7.63	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	1870	Outer_Full	7.77	/	/	<=13	Pass
	1882.5	Outer_Full	7.82	/	/	<=13	Pass
	1895	Outer_Full	7.75	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	1870	Outer_Full	8.02	/	/	<=13	Pass
	1882.5	Outer_Full	7.95	/	/	<=13	Pass
	1895	Outer_Full	7.87	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	1870	Outer_Full	7.79	/	/	<=13	Pass
	1882.5	Outer_Full	7.79	/	/	<=13	Pass
	1895	Outer_Full	7.77	/	/	<=13	Pass
CP-OFDM QPSK	1870	Outer_Full	8.50	/	/	<=13	Pass
	1882.5	Outer_Full	8.54	/	/	<=13	Pass
	1895	Outer_Full	8.29	/	/	<=13	Pass
CP-OFDM 16 QAM	1870	Outer_Full	8.24	/	/	<=13	Pass
	1882.5	Outer_Full	8.27	/	/	<=13	Pass
	1895	Outer_Full	8.25	/	/	<=13	Pass
CP-OFDM 64 QAM	1870	Outer_Full	8.46	/	/	<=13	Pass
	1882.5	Outer_Full	8.52	/	/	<=13	Pass
	1895	Outer_Full	8.60	/	/	<=13	Pass
CP-OFDM 256 QAM	1870	Outer_Full	8.48	/	/	<=13	Pass
	1882.5	Outer_Full	8.46	/	/	<=13	Pass
	1895	Outer_Full	8.58	/	/	<=13	Pass



4.13.2 Test Graph



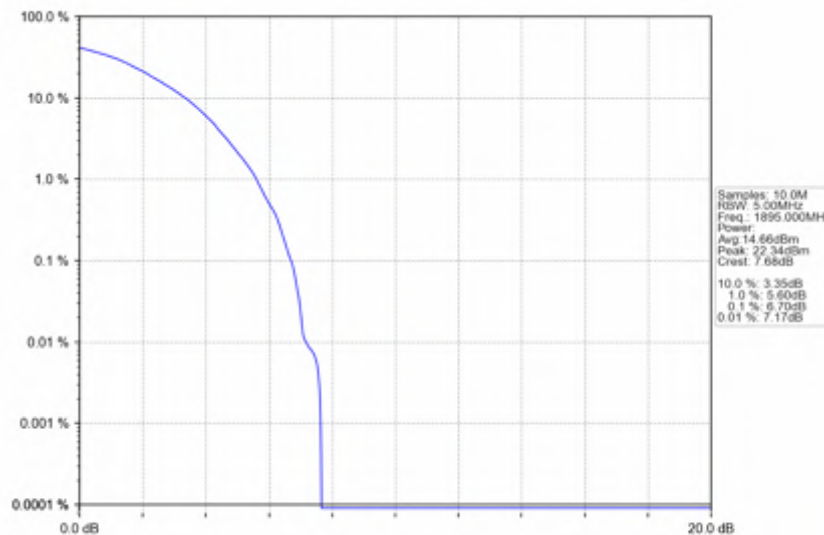
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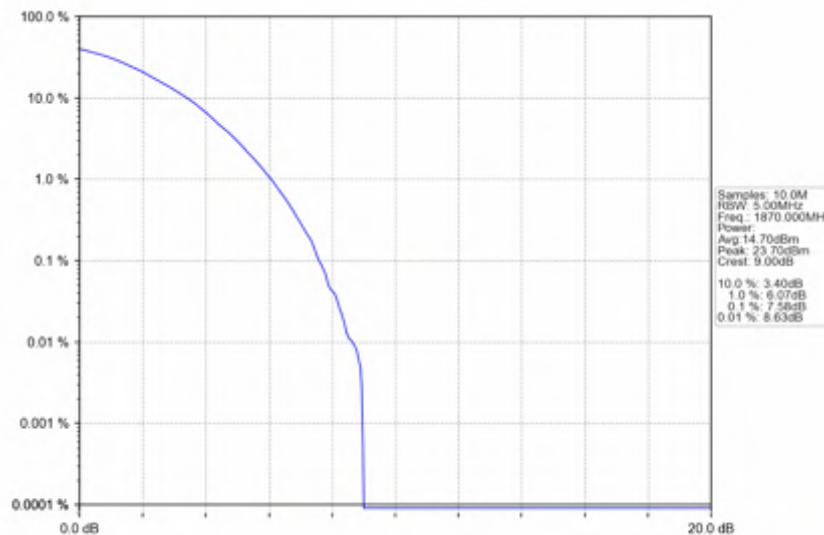
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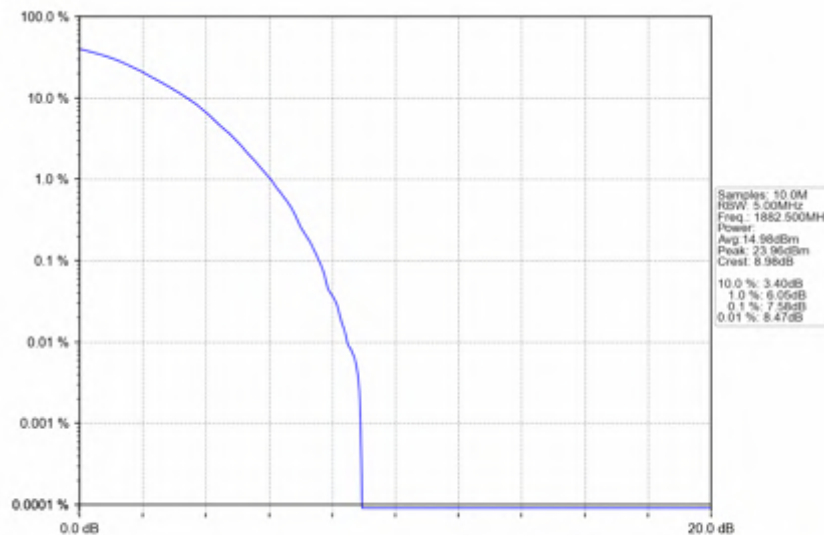


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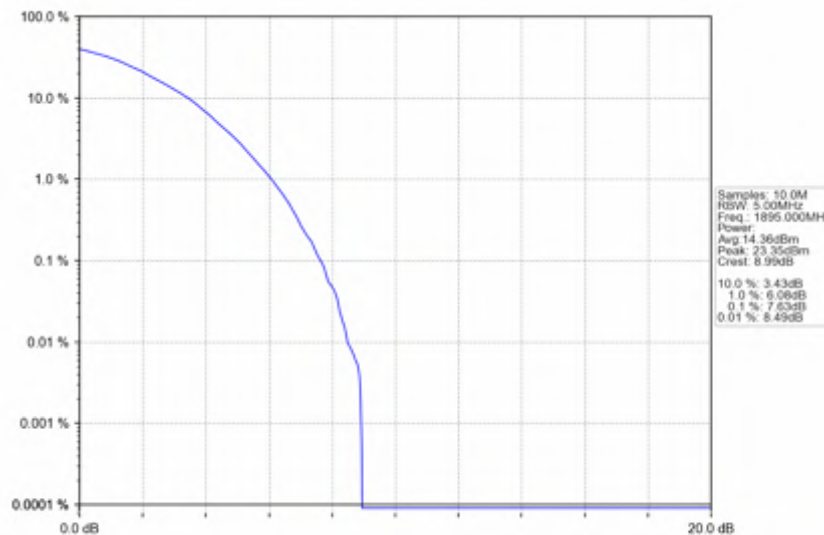
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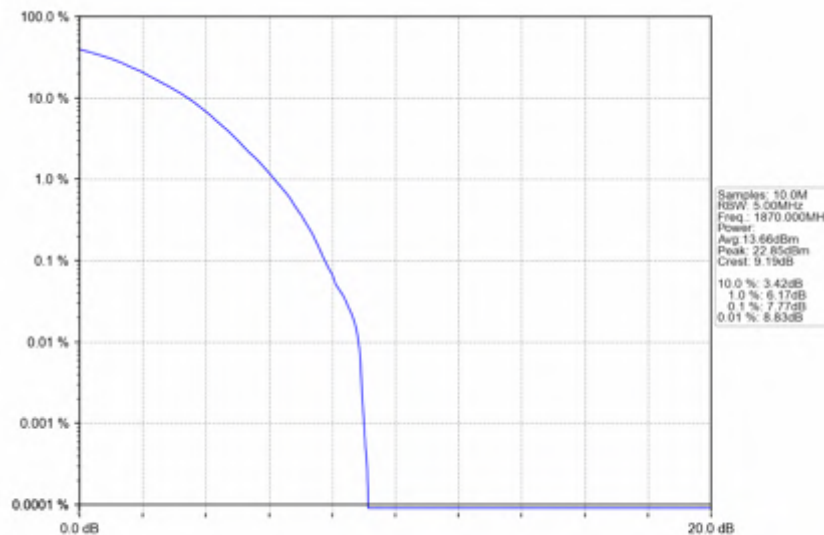
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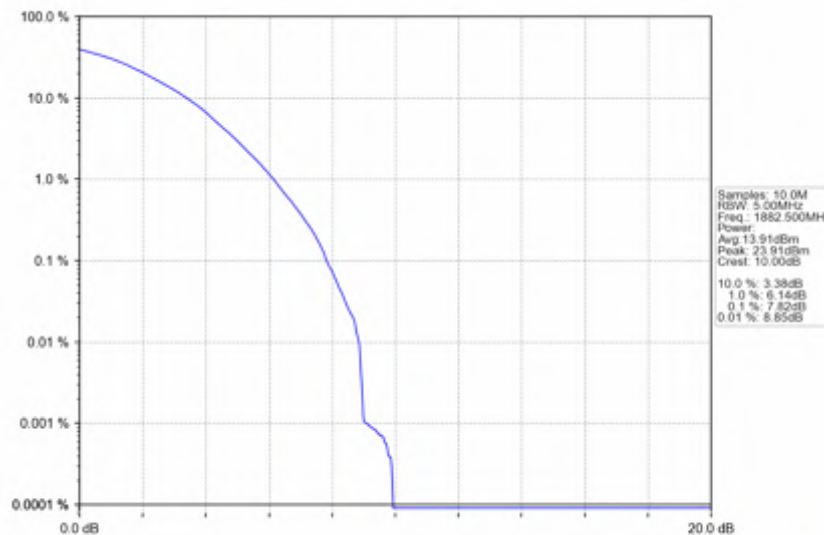
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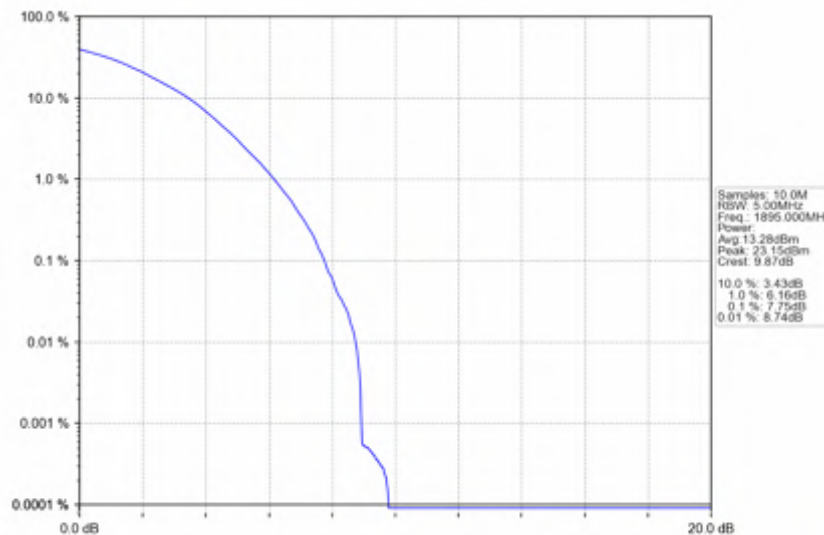
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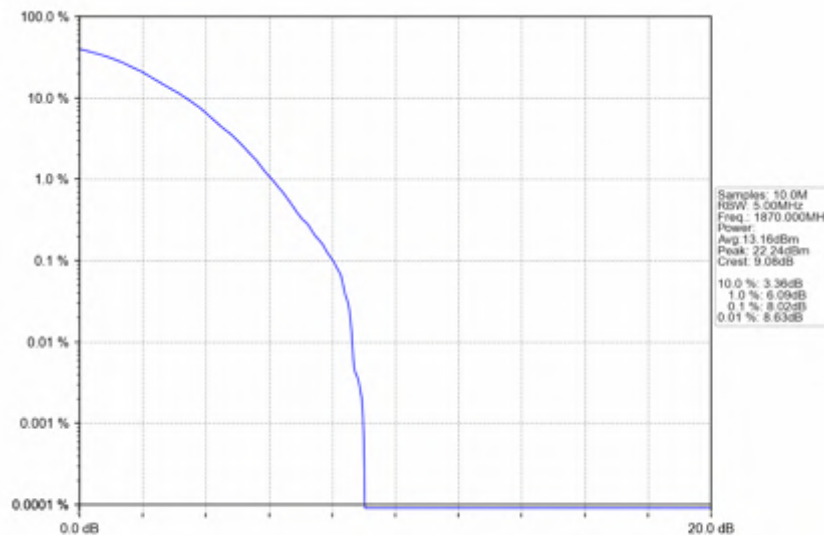
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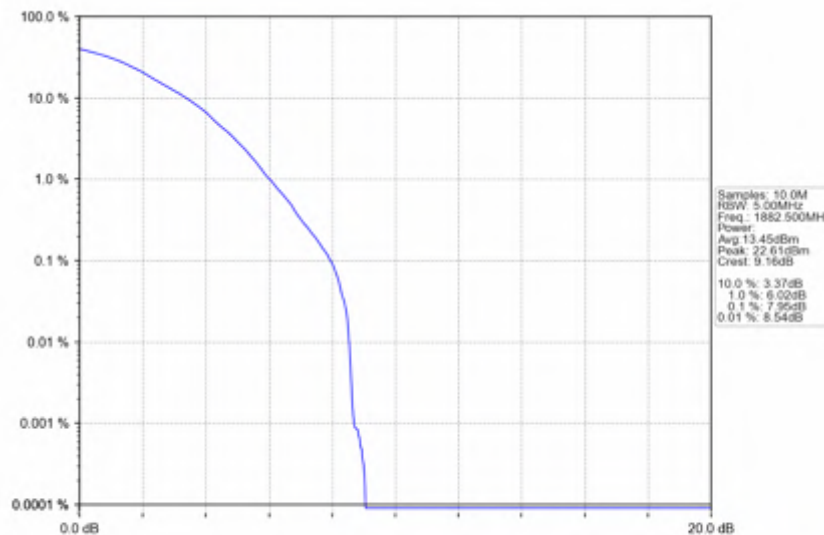


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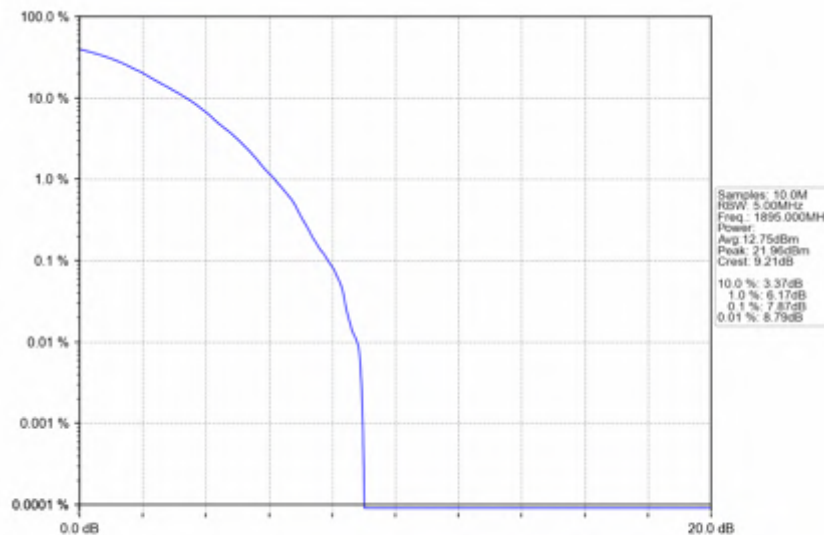
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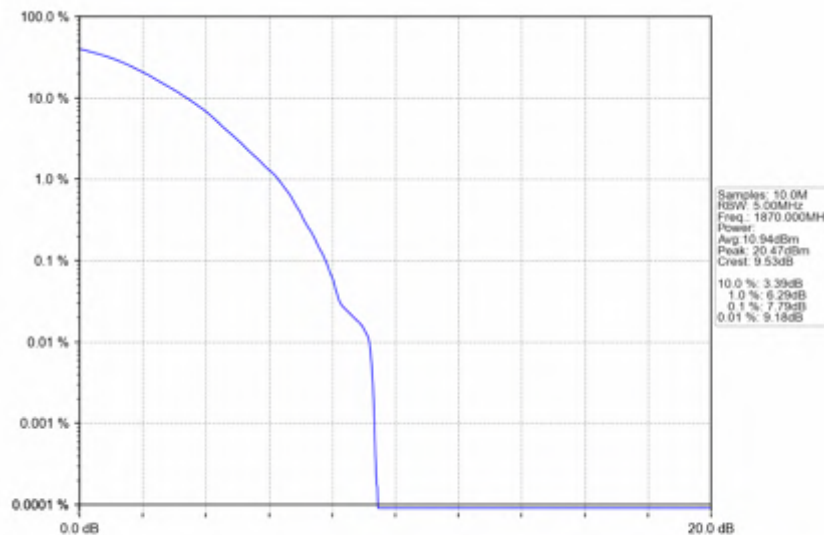


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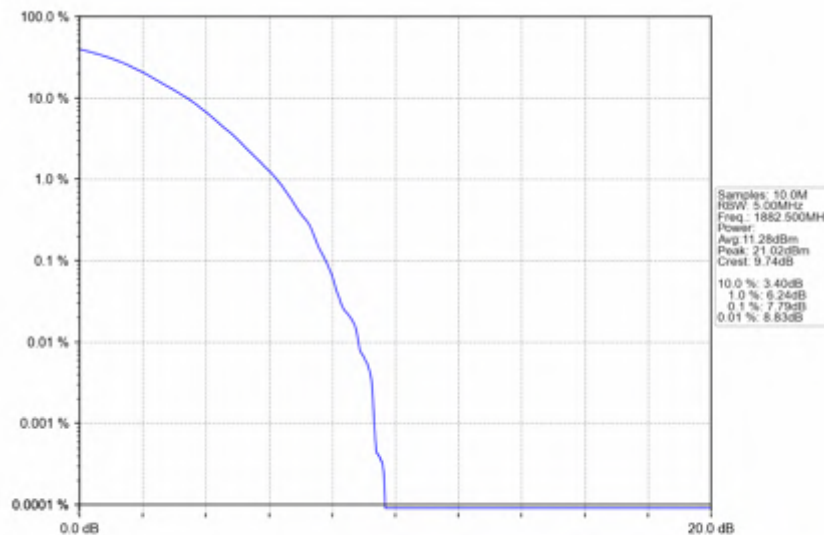
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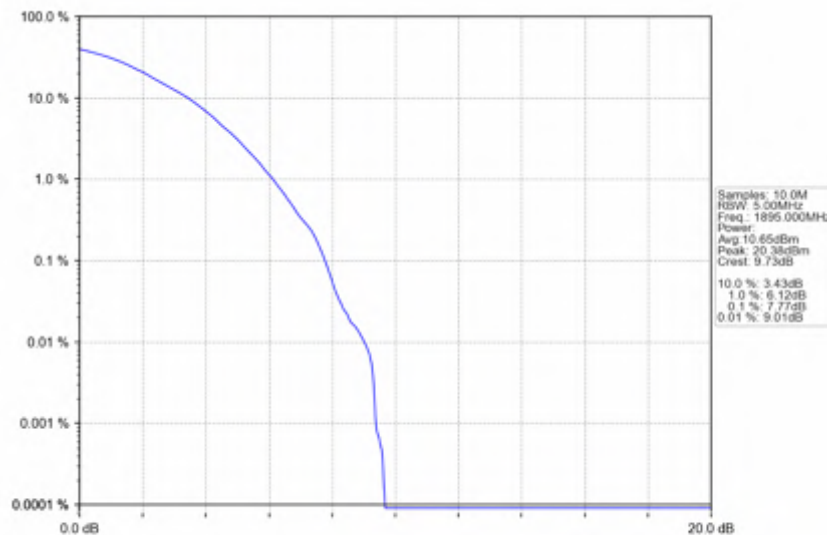
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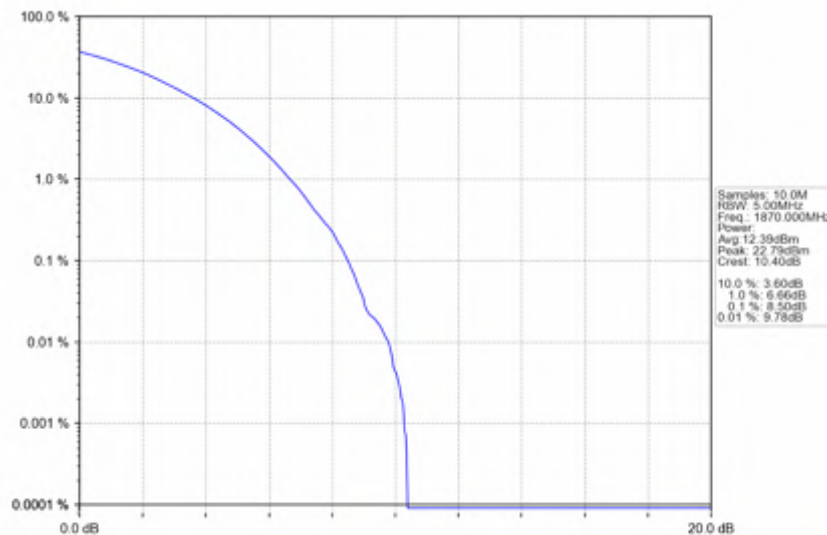
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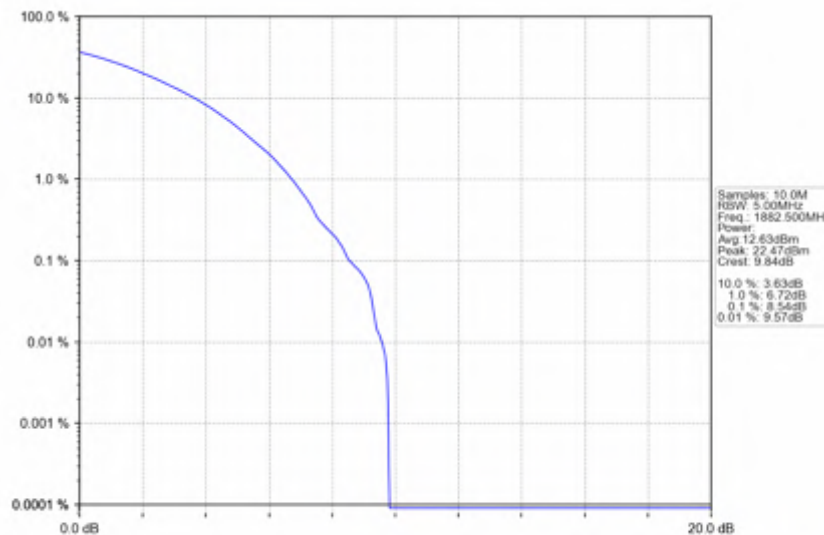
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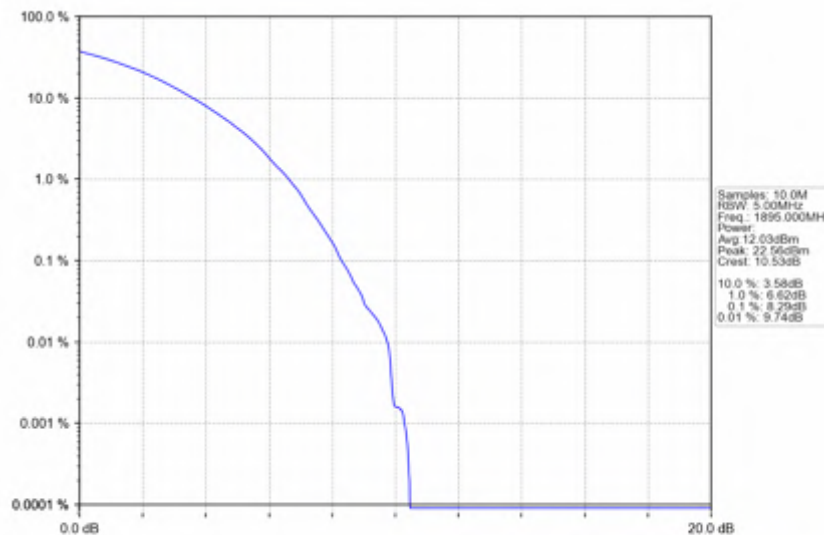
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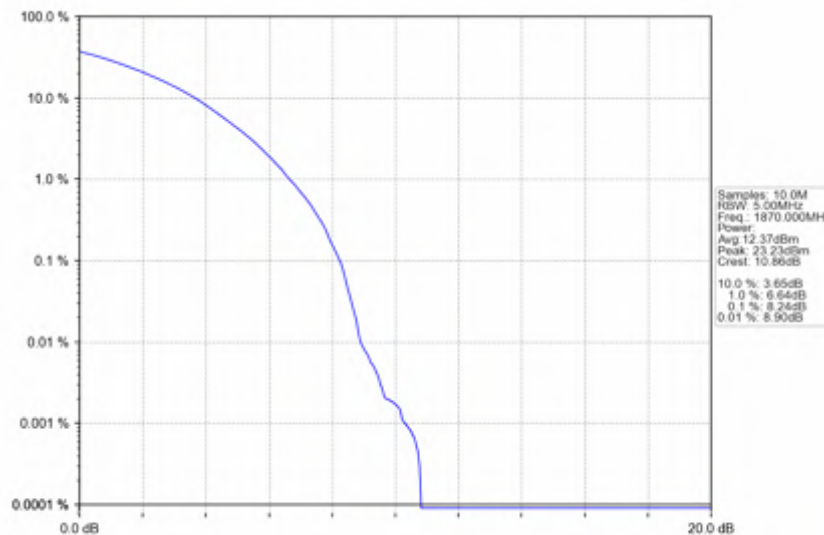


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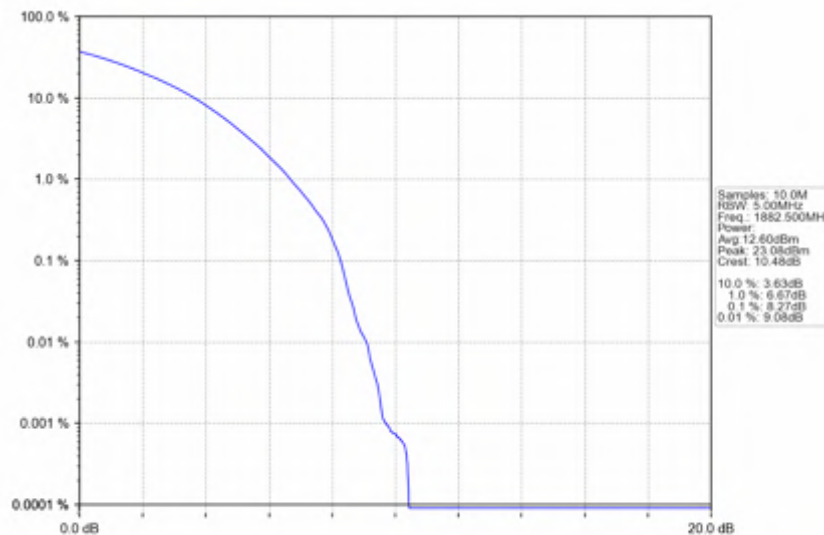
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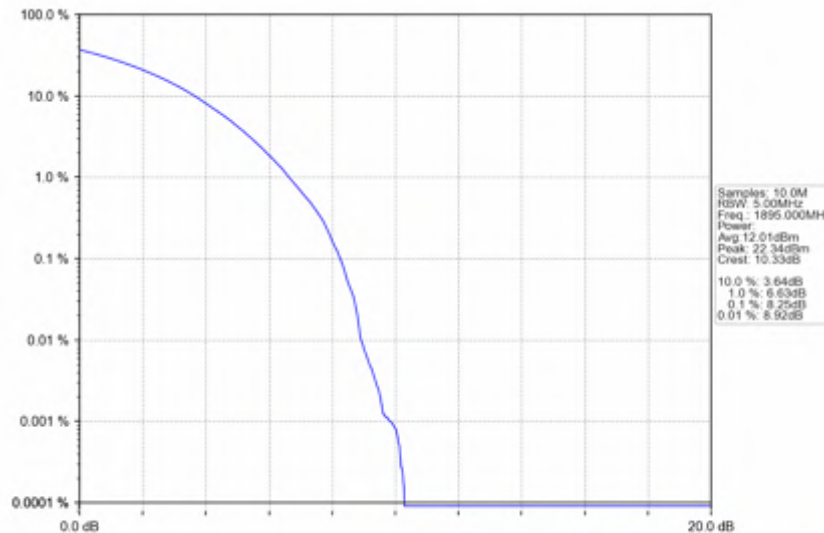


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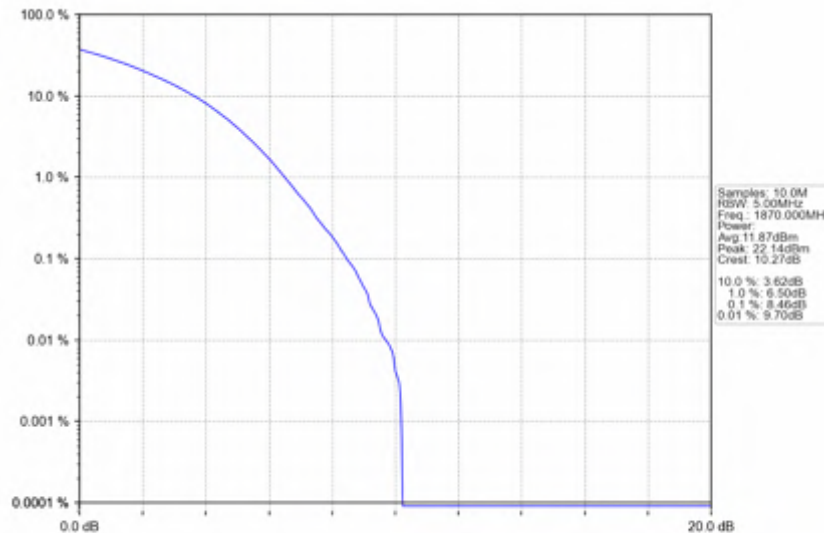
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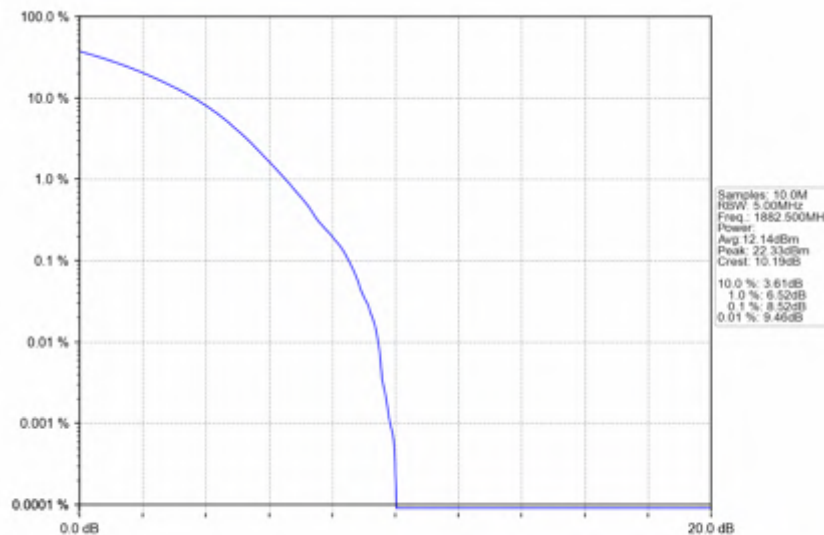


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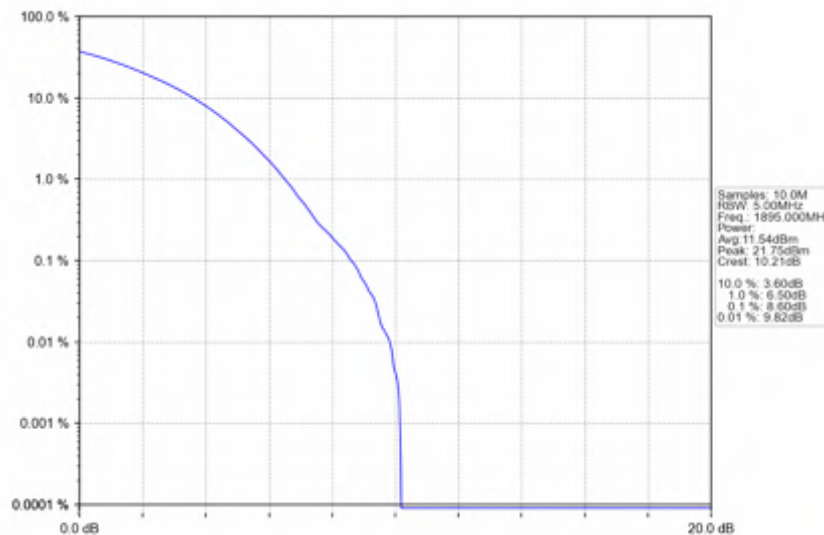
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n25_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_1882.5MHz_Outer_Full



n25_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_1895MHz_Outer_Full



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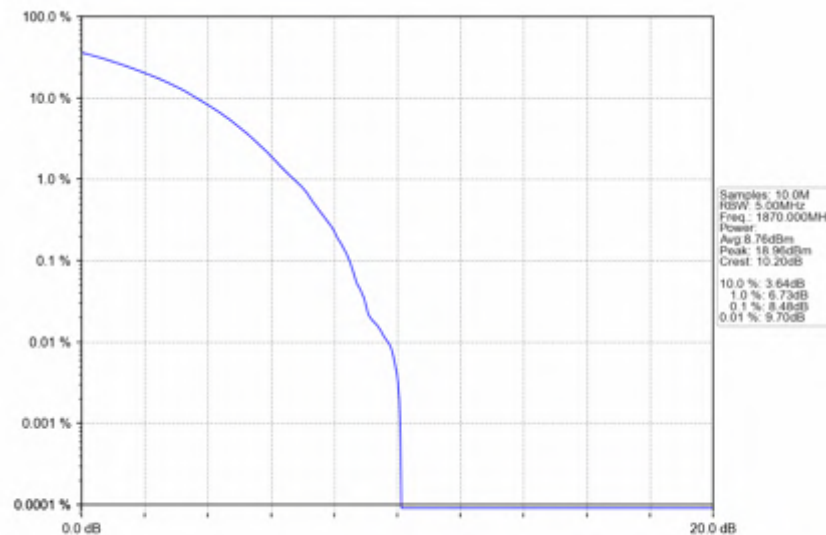
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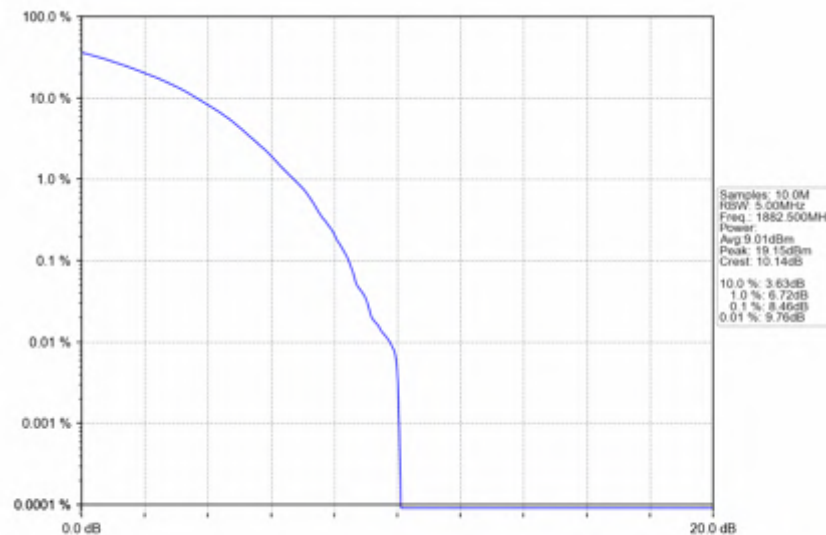
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n25_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_1870MHz_Outer_Full



n25_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_1882.5MHz_Outer_Full

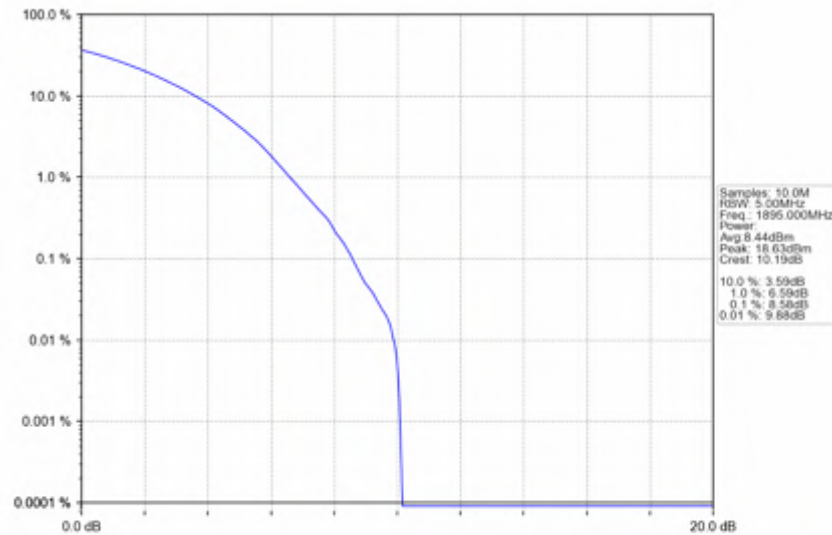


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n25_30kHz_SISO_NTNV_40MHz_CP-OFDM_256_QAM_1895MHz_Outer_Full



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5. n38 Peak-Average Ratio

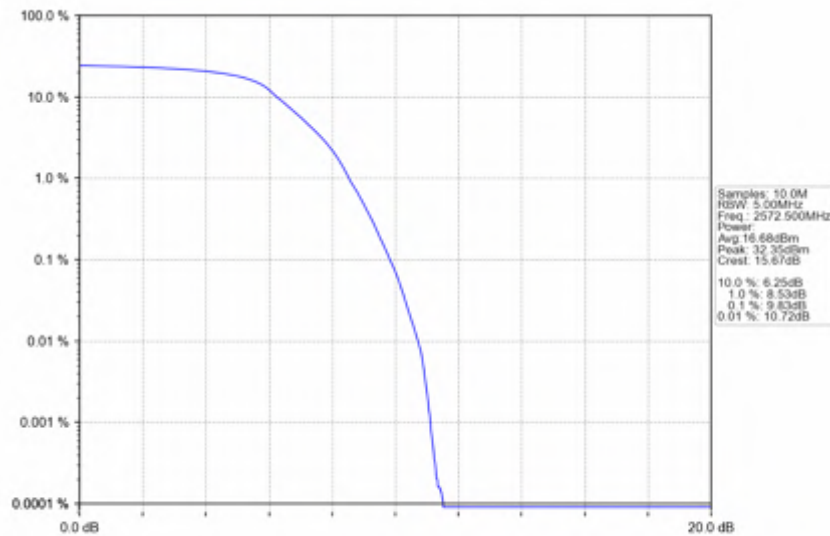
5.1 15k_SISO_5MHz_NTNV

5.1.1 Test Result

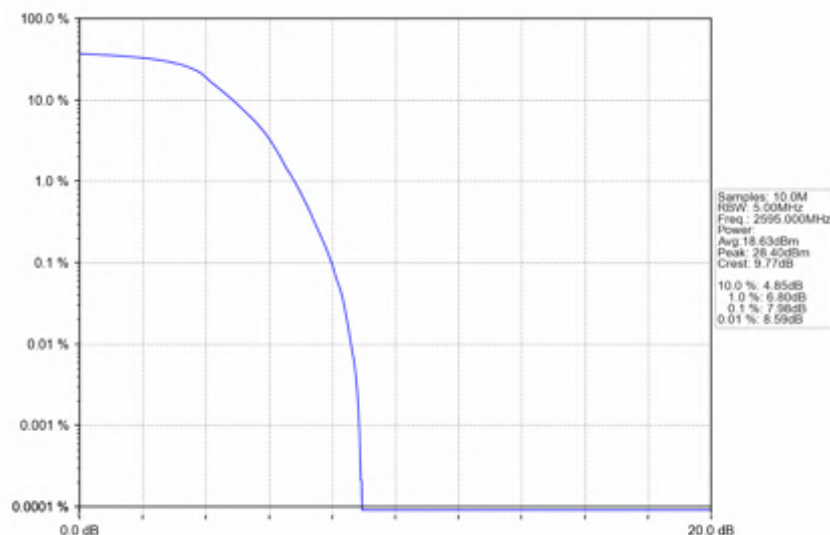
5G NR n38 SCS=15kHz SISO 5MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2572.5	Outer_Full	9.83	/	/	<=13	Pass
	2595	Outer_Full	7.98	/	/	<=13	Pass
	2617.5	Outer_Full	8.01	/	/	<=13	Pass
DFT-s-OFDM QPSK	2572.5	Outer_Full	9.82	/	/	<=13	Pass
	2595	Outer_Full	7.31	/	/	<=13	Pass
	2617.5	Outer_Full	7.34	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2572.5	Outer_Full	12.25	/	/	<=13	Pass
	2595	Outer_Full	8.58	/	/	<=13	Pass
	2617.5	Outer_Full	9.76	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2572.5	Outer_Full	11.05	/	/	<=13	Pass
	2595	Outer_Full	9.53	/	/	<=13	Pass
	2617.5	Outer_Full	9.36	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2572.5	Outer_Full	10.15	/	/	<=13	Pass
	2595	Outer_Full	10.03	/	/	<=13	Pass
	2617.5	Outer_Full	10.07	/	/	<=13	Pass
CP-OFDM QPSK	2572.5	Outer_Full	12.17	/	/	<=13	Pass
	2595	Outer_Full	12.13	/	/	<=13	Pass
	2617.5	Outer_Full	11.98	/	/	<=13	Pass
CP-OFDM 16 QAM	2572.5	Outer_Full	11.99	/	/	<=13	Pass
	2595	Outer_Full	12.02	/	/	<=13	Pass
	2617.5	Outer_Full	11.78	/	/	<=13	Pass
CP-OFDM 64 QAM	2572.5	Outer_Full	12.02	/	/	<=13	Pass
	2595	Outer_Full	12.00	/	/	<=13	Pass
	2617.5	Outer_Full	11.98	/	/	<=13	Pass
CP-OFDM 256 QAM	2572.5	Outer_Full	11.93	/	/	<=13	Pass
	2595	Outer_Full	11.79	/	/	<=13	Pass
	2617.5	Outer_Full	11.70	/	/	<=13	Pass

5.1.2 Test Graph

n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2572.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2595MHz_Outer_Full



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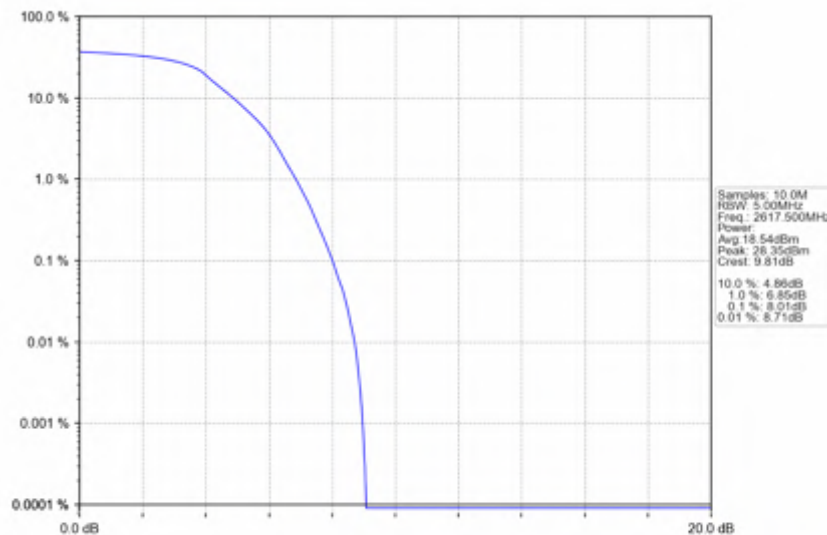
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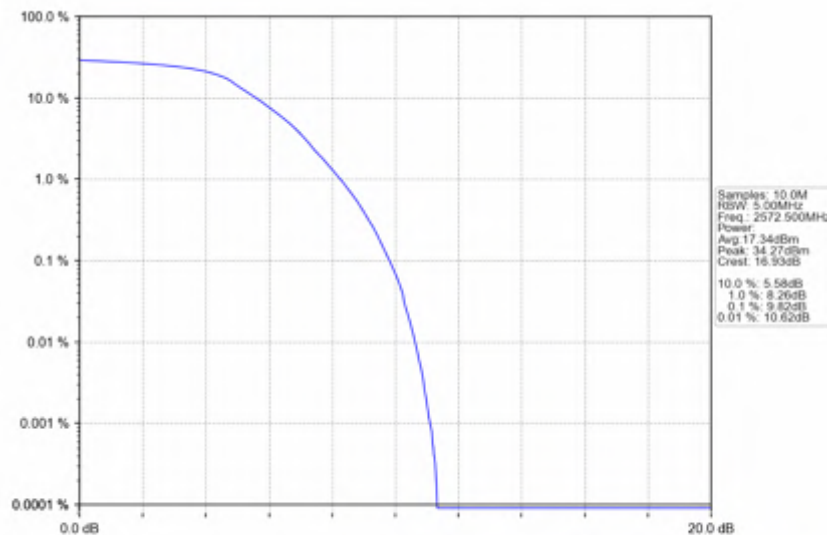
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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_QPSK_2572.5MHz_Outer_Full

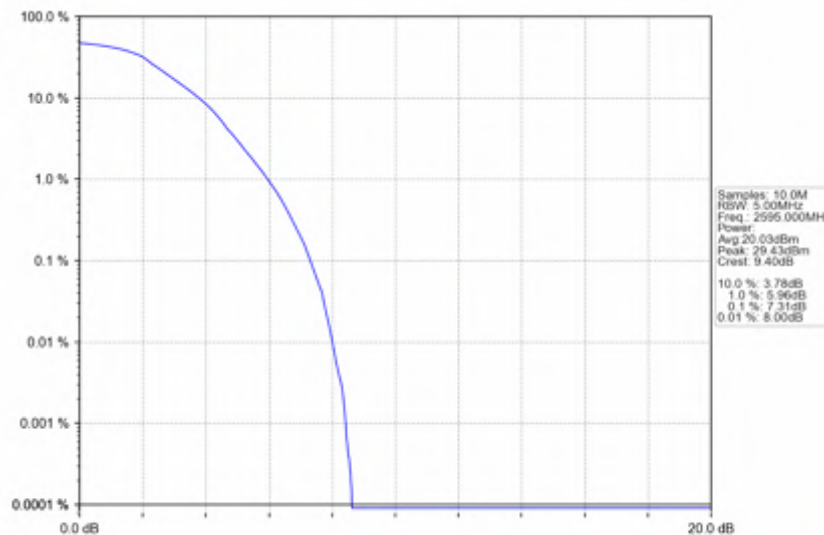


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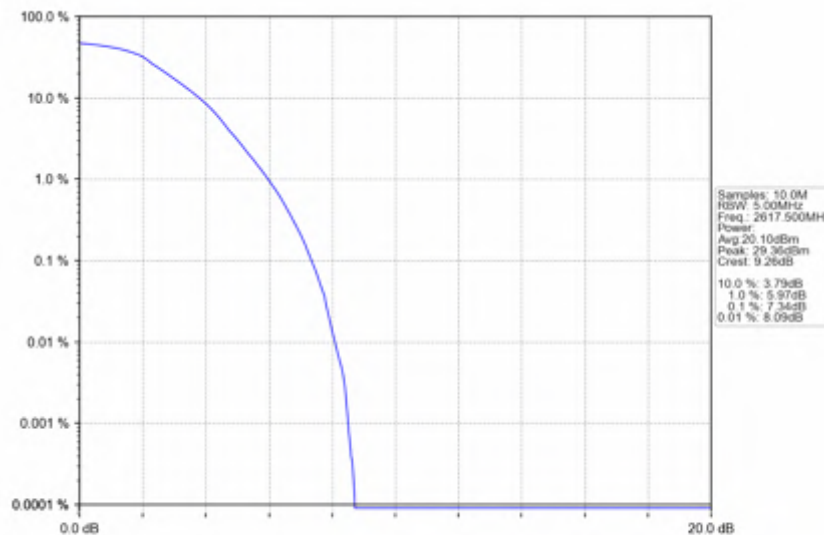
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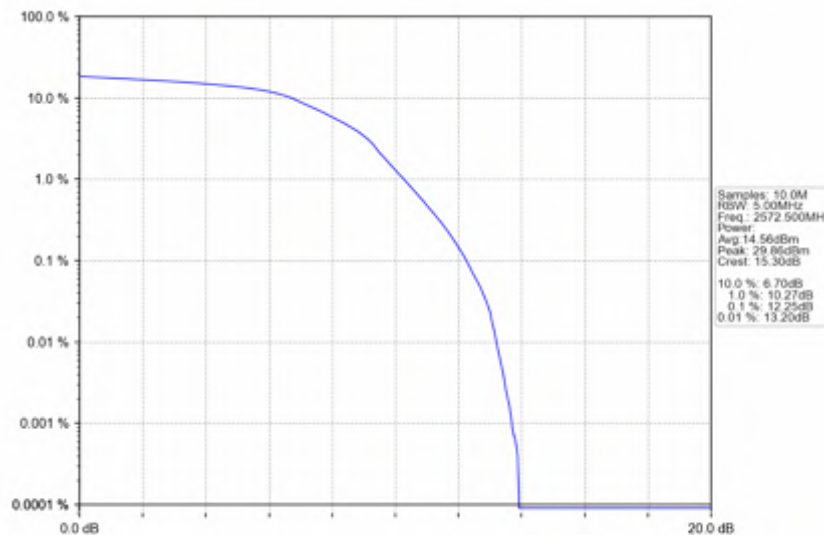
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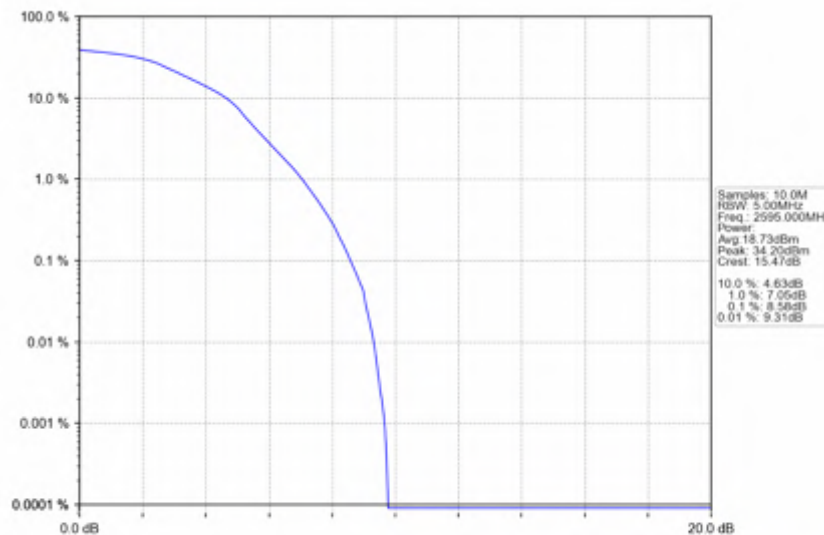
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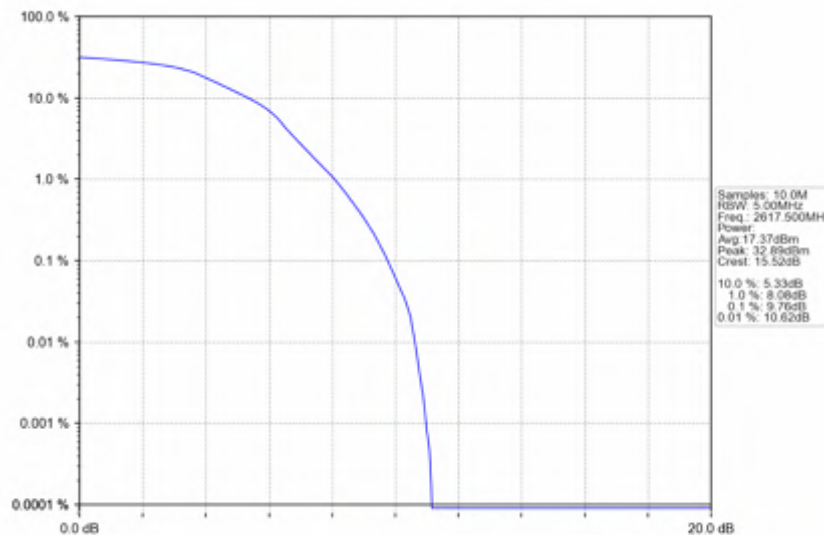
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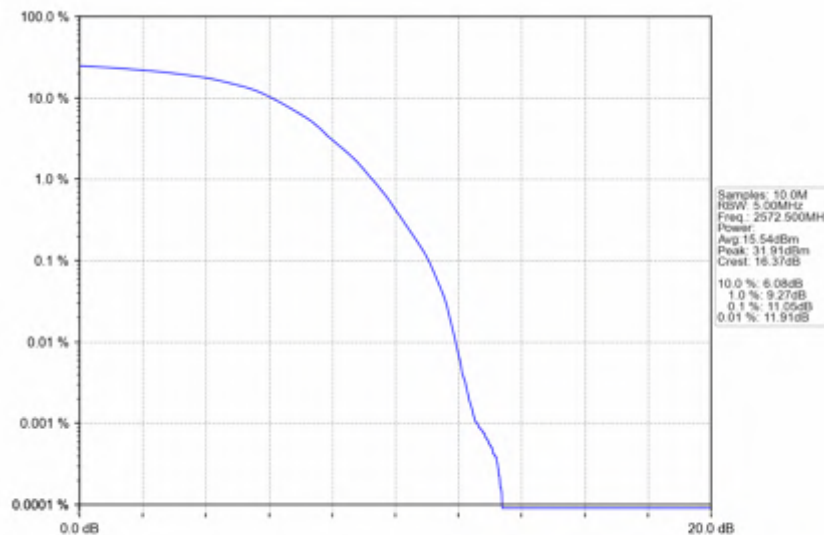
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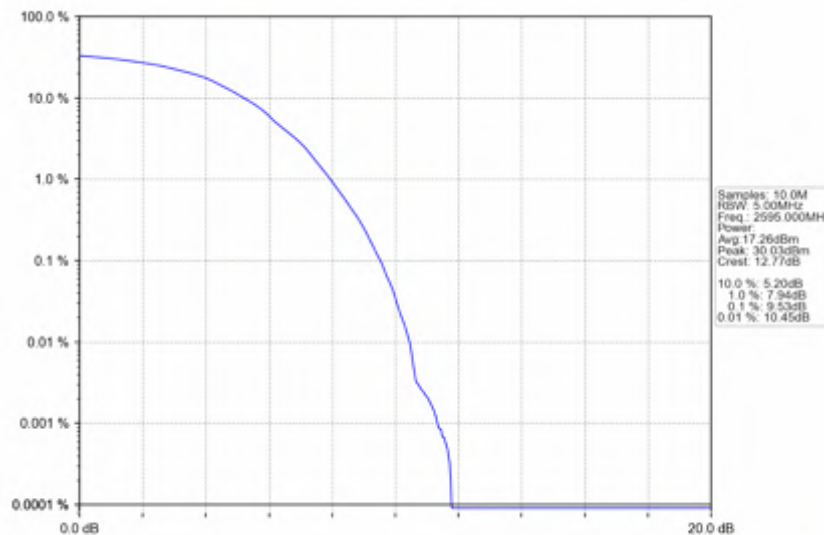
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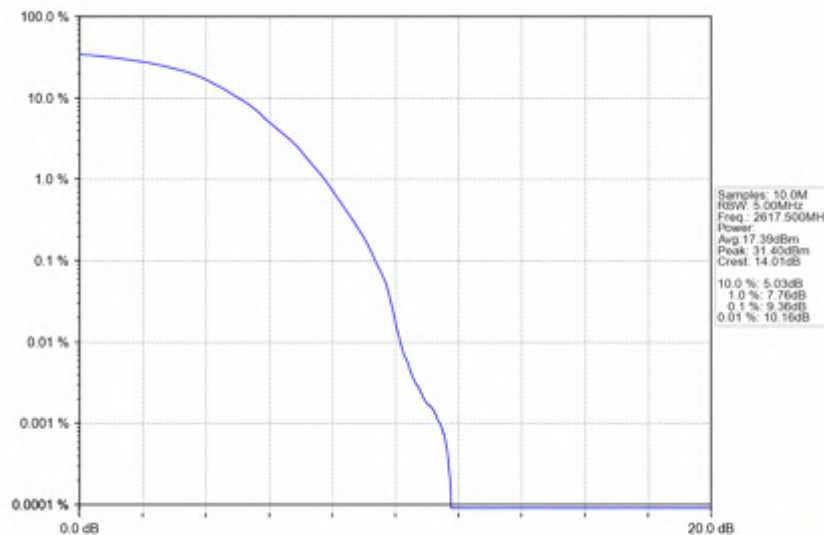
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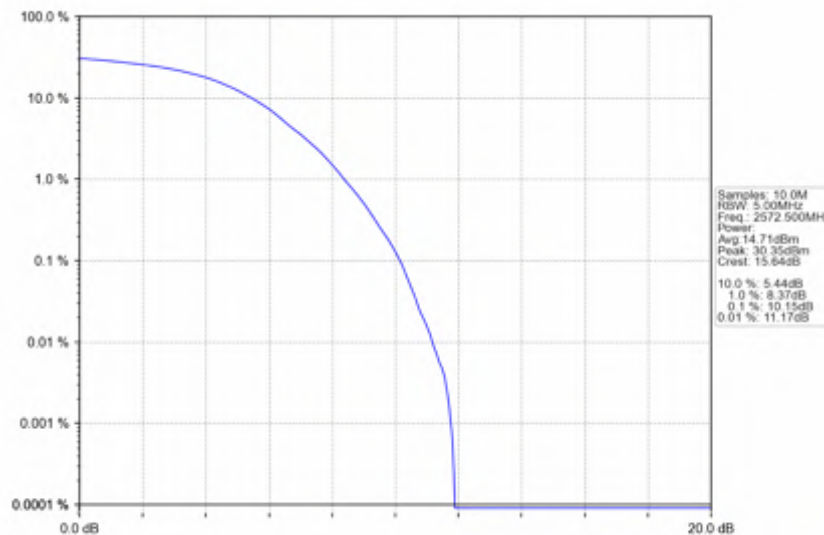


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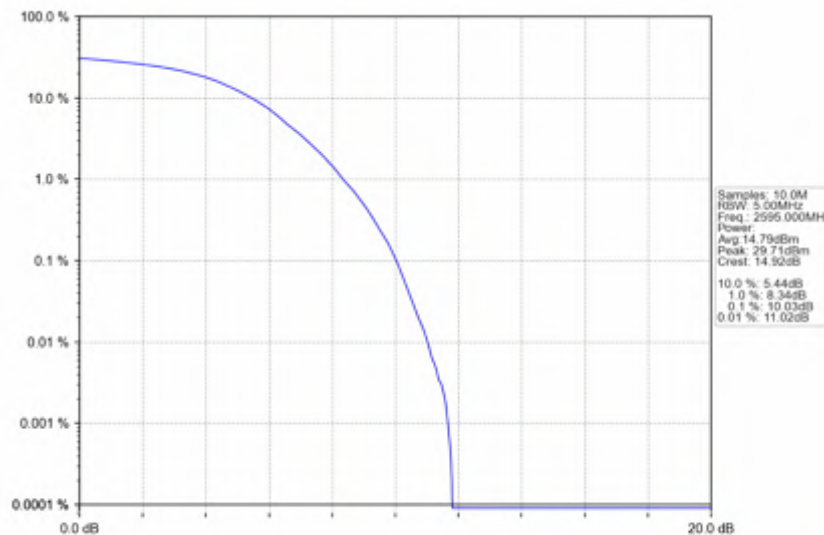
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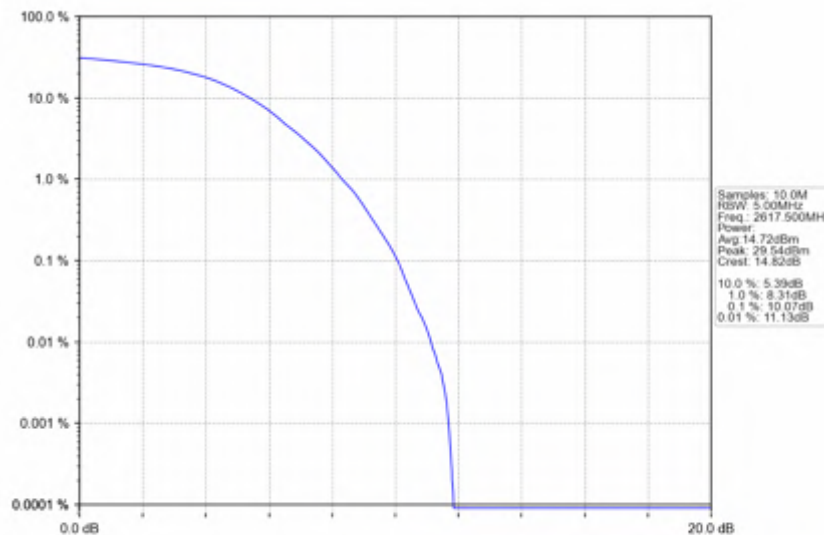
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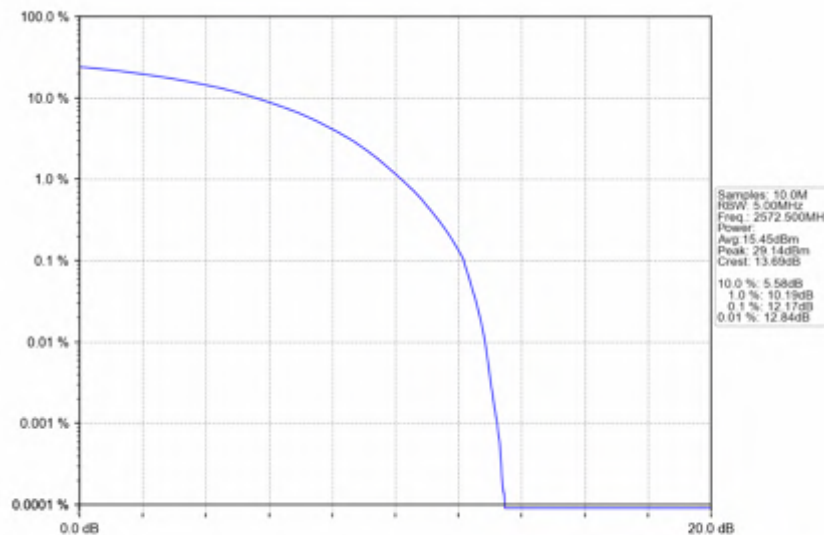
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n38_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_2572.5MHz_Outer_Full



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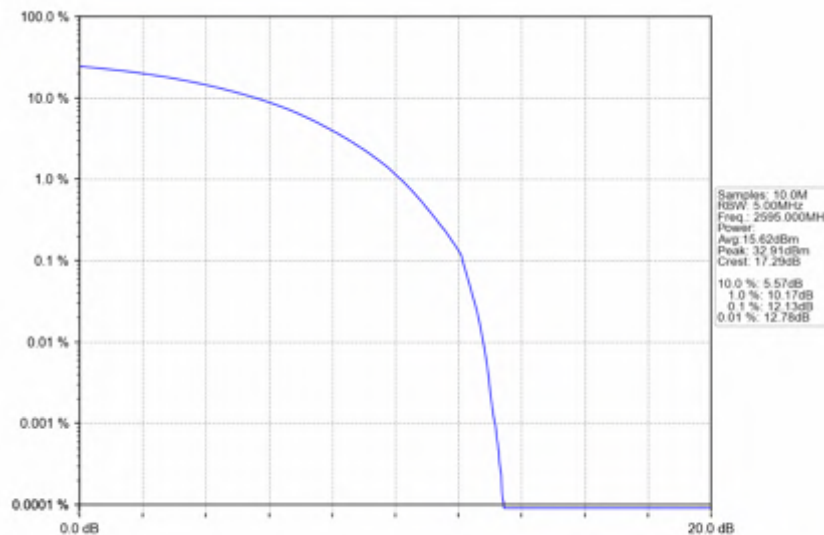
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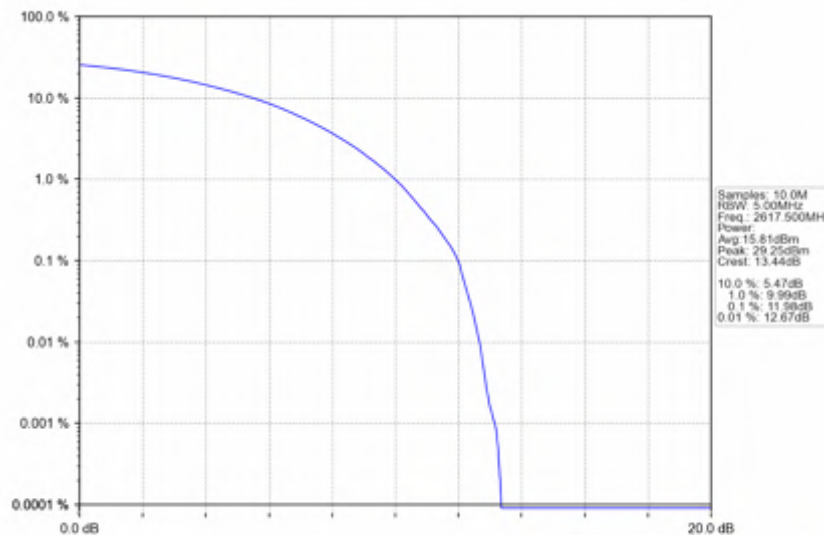
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n38_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_2595MHz_Outer_Full



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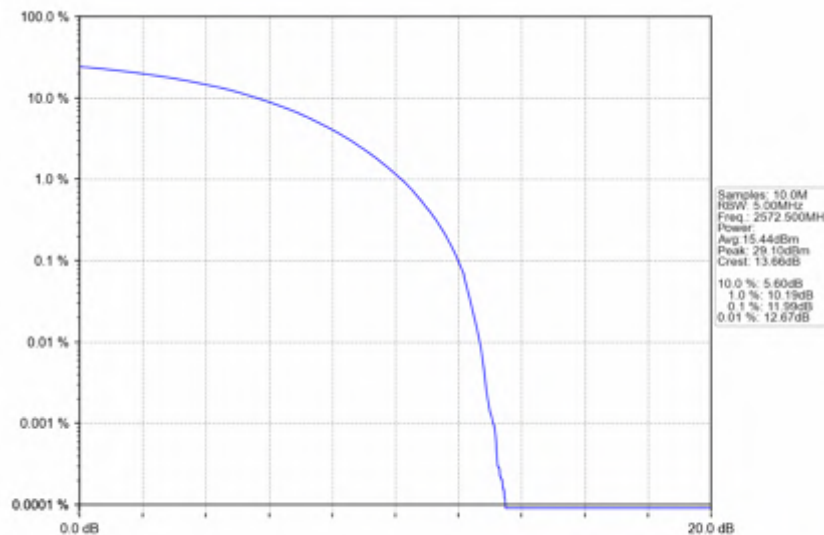


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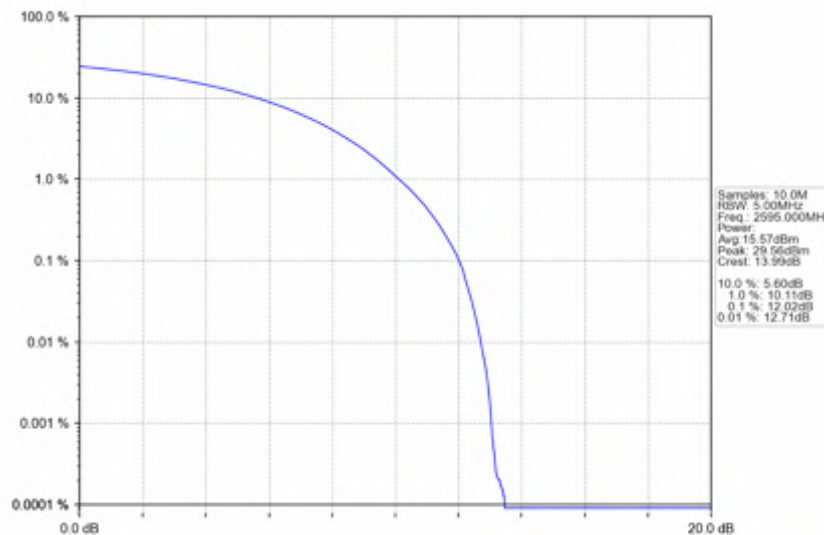
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n38_15kHz_SISO_NTNV_5MHz_CP-OFDM_16_QAM_2572.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_5MHz_CP-OFDM_16_QAM_2595MHz_Outer_Full



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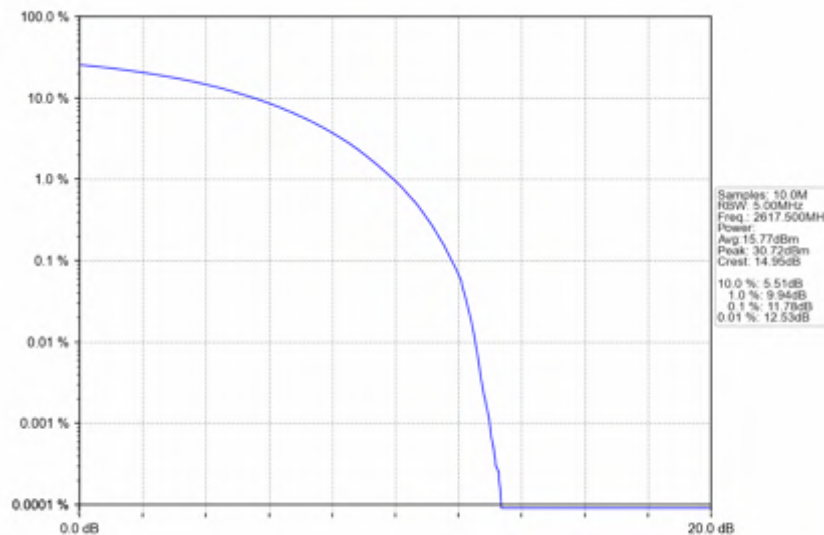
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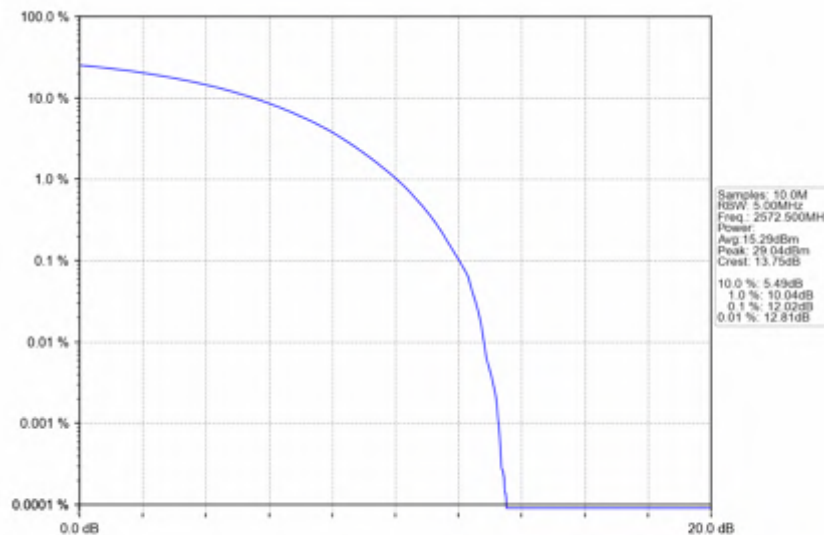
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n38_15kHz_SISO_NTNV_5MHz_CP-OFDM_16_QAM_2617.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_5MHz_CP-OFDM_64_QAM_2572.5MHz_Outer_Full



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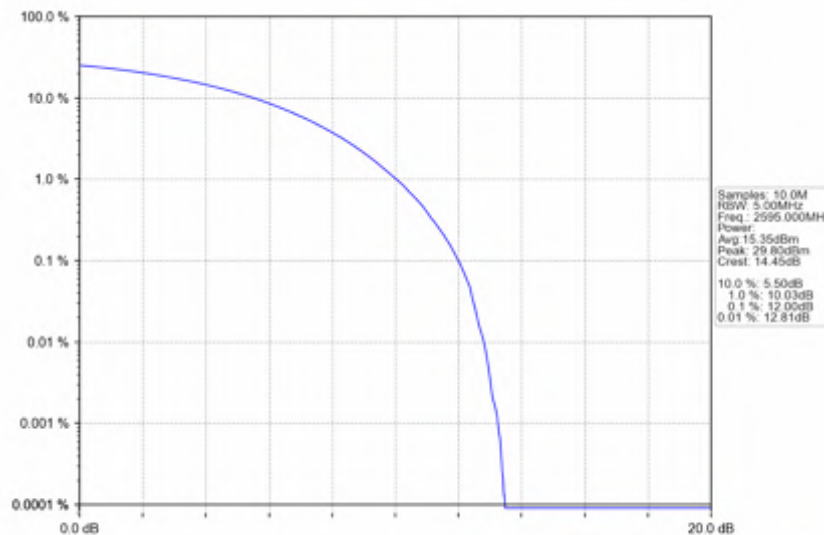
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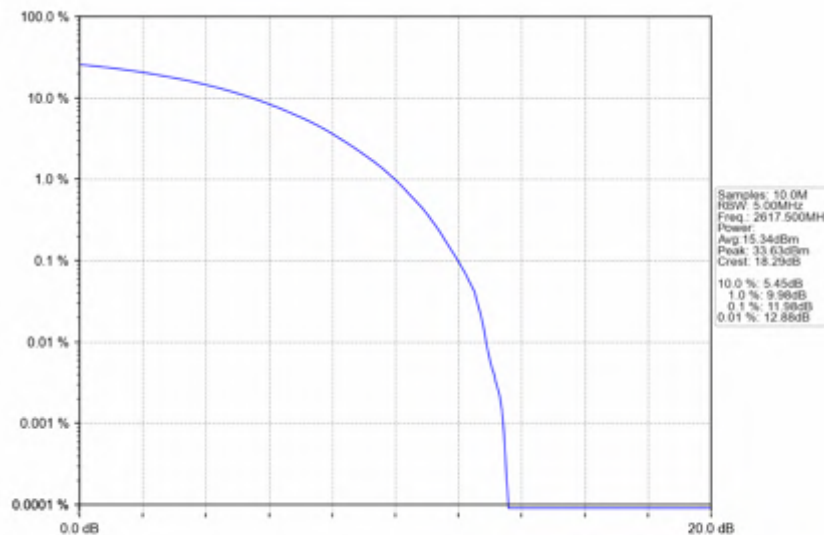
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n38_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM_2595MHz_Outer_Full



n38_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM_2617.5MHz_Outer_Full



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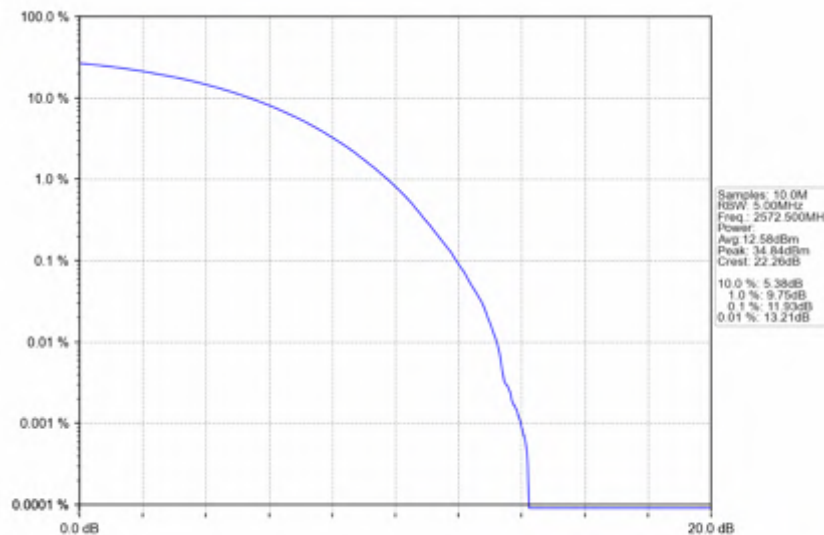
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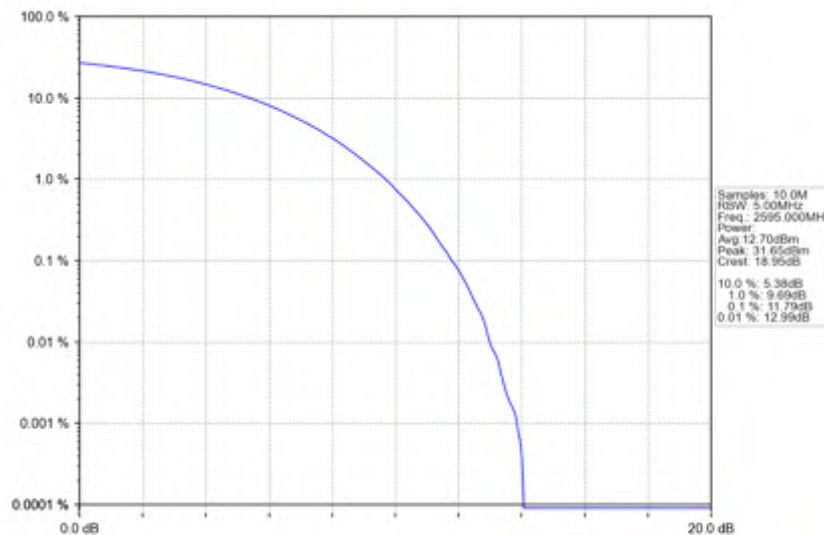
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n38_15kHz_SISO_NTNV_5MHz_CP-OFDM 256 QAM_2572.5MHz_Outer_Full



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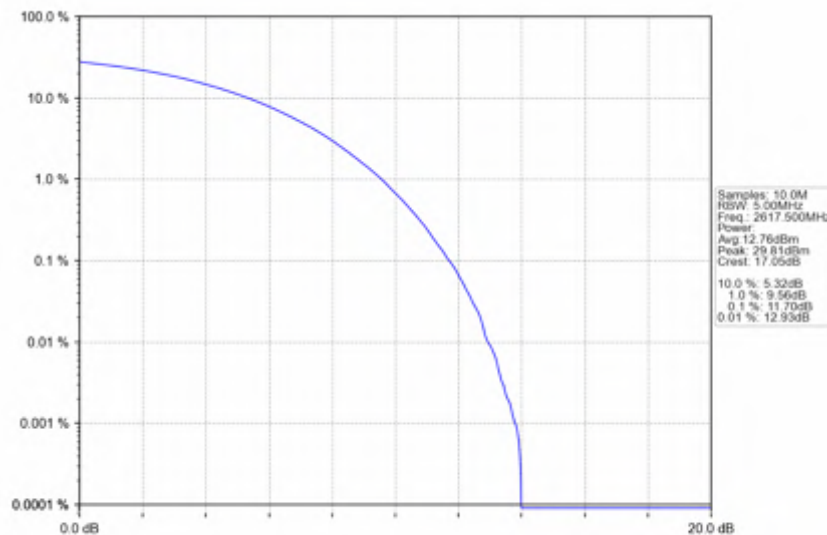
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5.2 15k_SISO_10MHz_NTNV

5.2.1 Test Result

Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2575	Outer Full	8.73	/	/	<=13	Pass
	2595	Outer Full	8.93	/	/	<=13	Pass
	2615	Outer Full	8.95	/	/	<=13	Pass
DFT-s-OFDM QPSK	2575	Outer Full	7.53	/	/	<=13	Pass
	2595	Outer Full	7.55	/	/	<=13	Pass
	2615	Outer Full	7.54	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2575	Outer Full	8.25	/	/	<=13	Pass
	2595	Outer Full	9.88	/	/	<=13	Pass
	2615	Outer Full	11.57	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2575	Outer Full	9.97	/	/	<=13	Pass
	2595	Outer Full	9.61	/	/	<=13	Pass
	2615	Outer Full	10.23	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2575	Outer Full	10.22	/	/	<=13	Pass
	2595	Outer Full	10.17	/	/	<=13	Pass
	2615	Outer Full	10.20	/	/	<=13	Pass
CP-OFDM QPSK	2575	Outer Full	11.75	/	/	<=13	Pass
	2595	Outer Full	11.70	/	/	<=13	Pass
	2615	Outer Full	11.61	/	/	<=13	Pass
CP-OFDM 16 QAM	2575	Outer Full	11.65	/	/	<=13	Pass
	2595	Outer Full	11.49	/	/	<=13	Pass
	2615	Outer Full	11.66	/	/	<=13	Pass
CP-OFDM 64 QAM	2575	Outer Full	11.75	/	/	<=13	Pass
	2595	Outer Full	11.54	/	/	<=13	Pass
	2615	Outer Full	11.74	/	/	<=13	Pass
CP-OFDM 256 QAM	2575	Outer Full	11.88	/	/	<=13	Pass
	2595	Outer Full	11.93	/	/	<=13	Pass
	2615	Outer Full	11.98	/	/	<=13	Pass



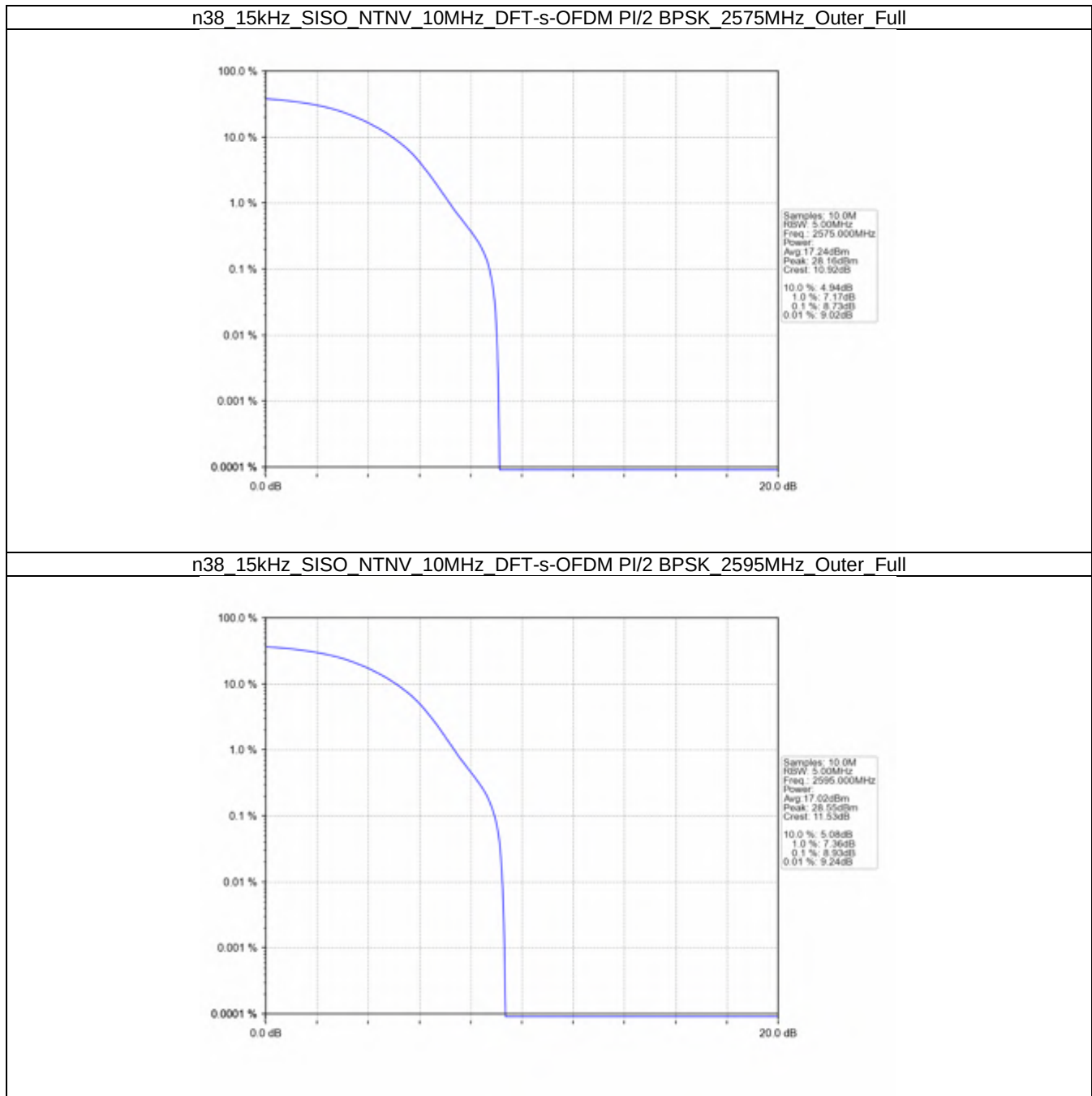
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5.2.2 Test Graph



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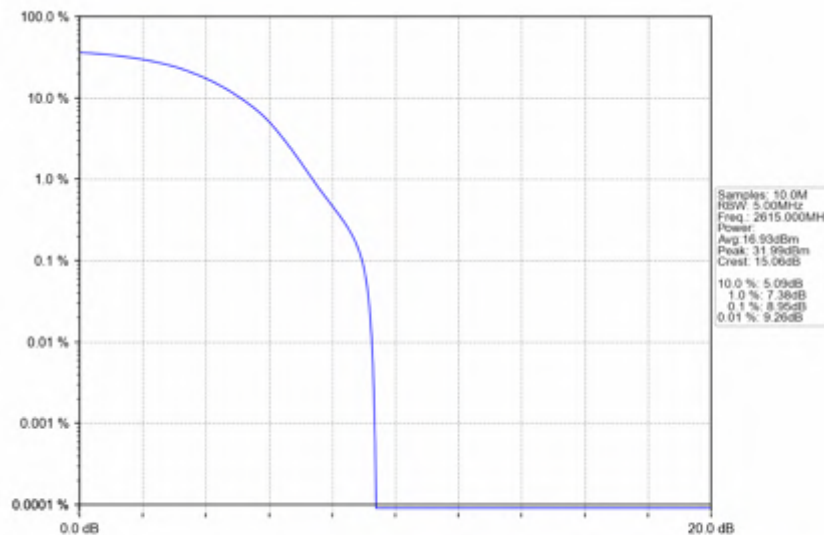
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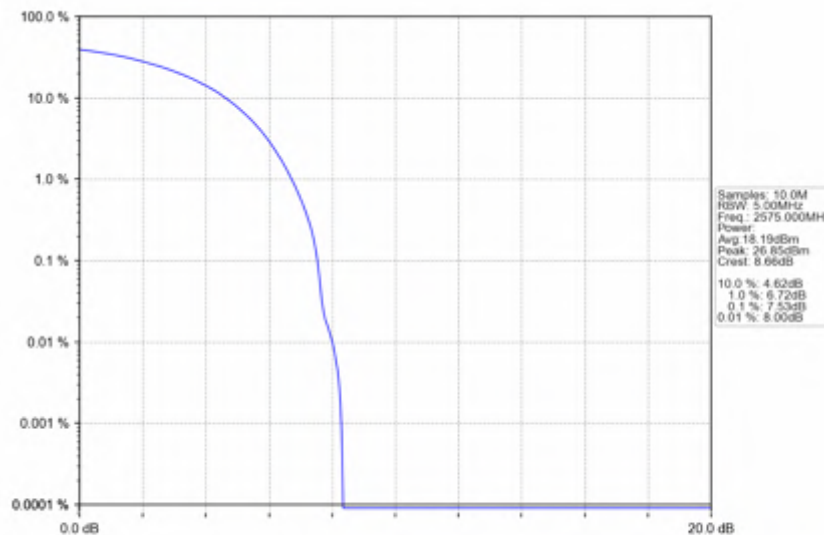
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n38_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2575MHz_Outer_Full

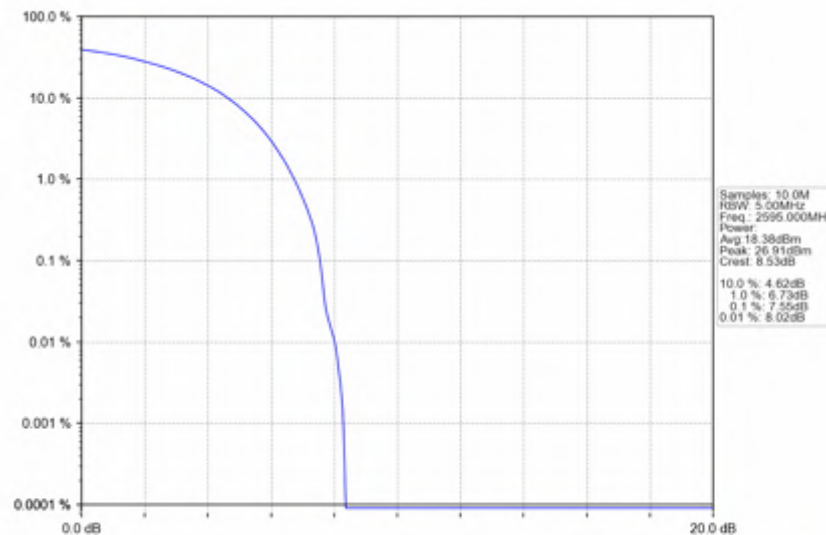


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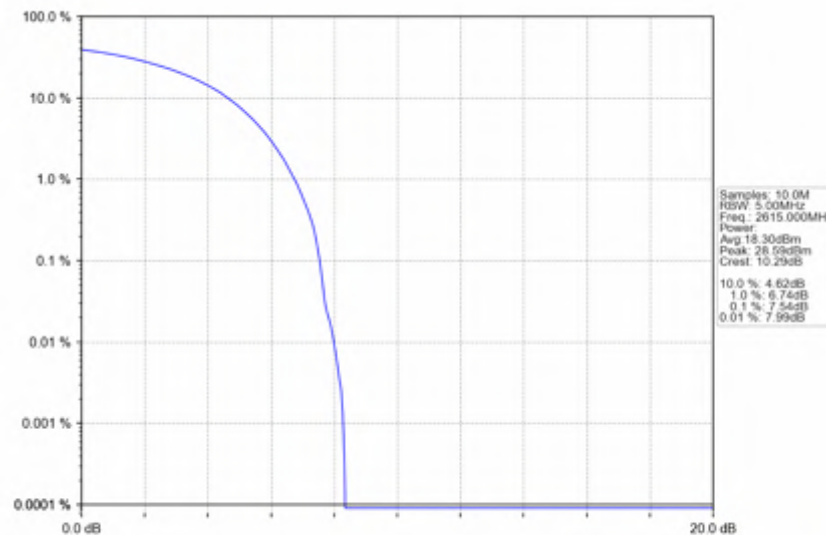
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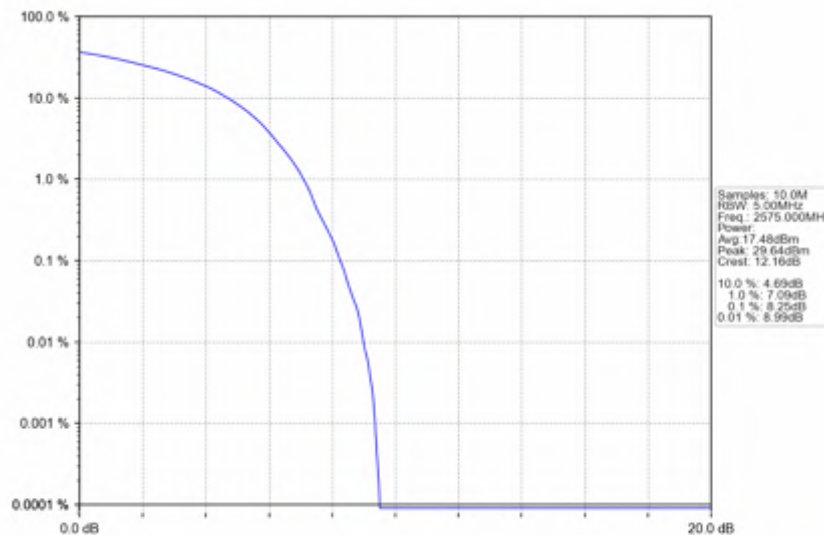


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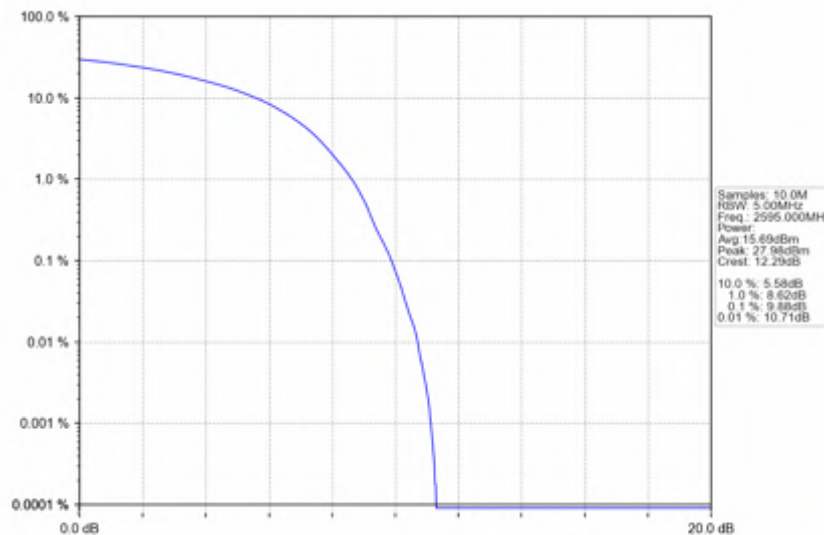
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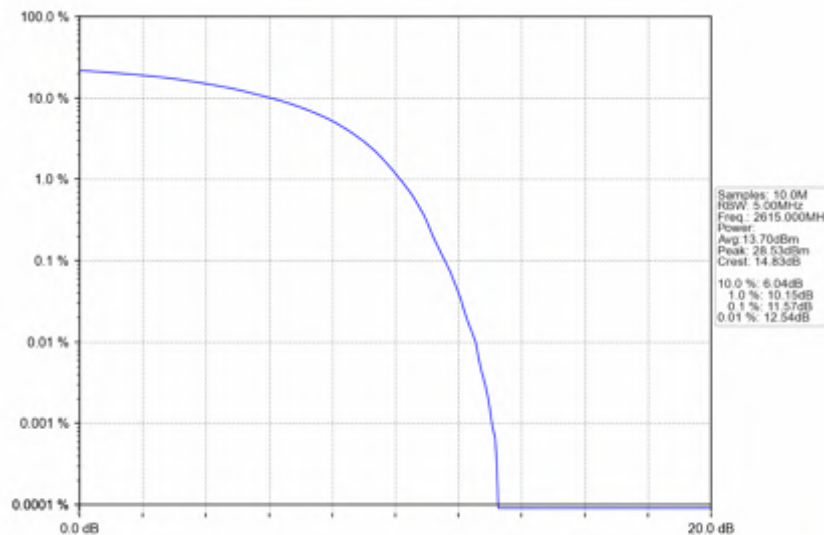
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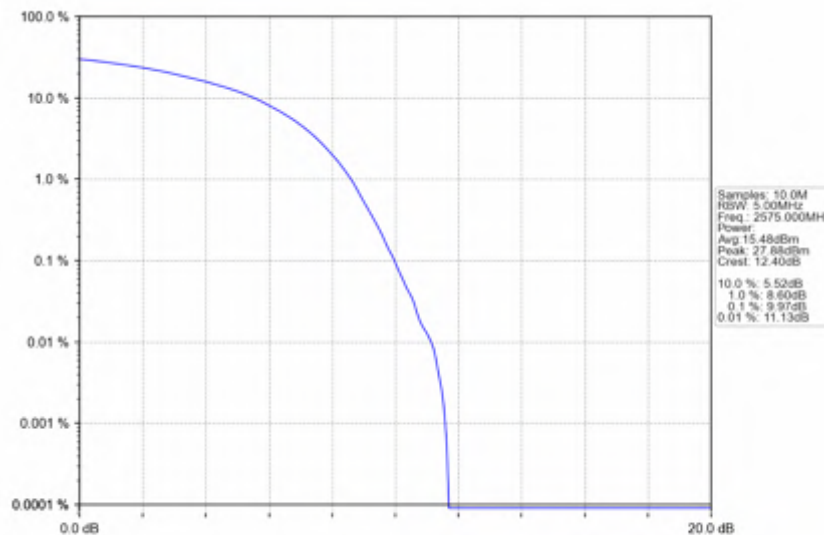
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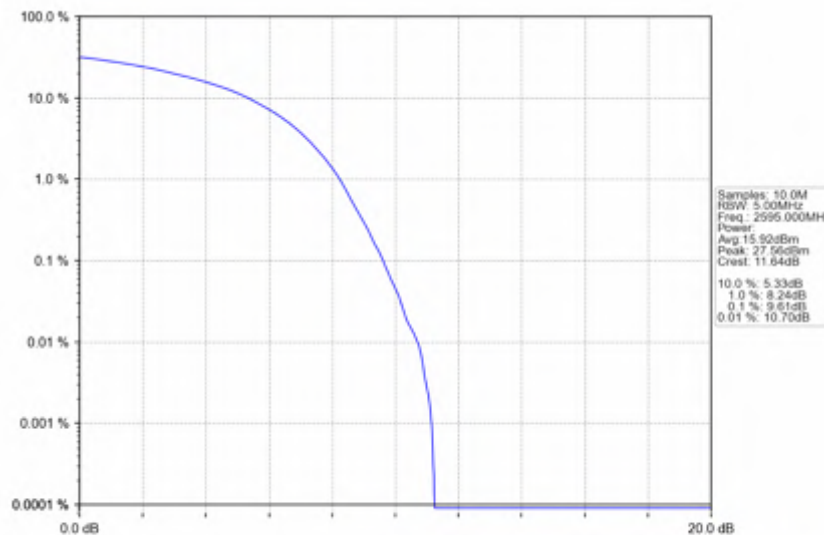
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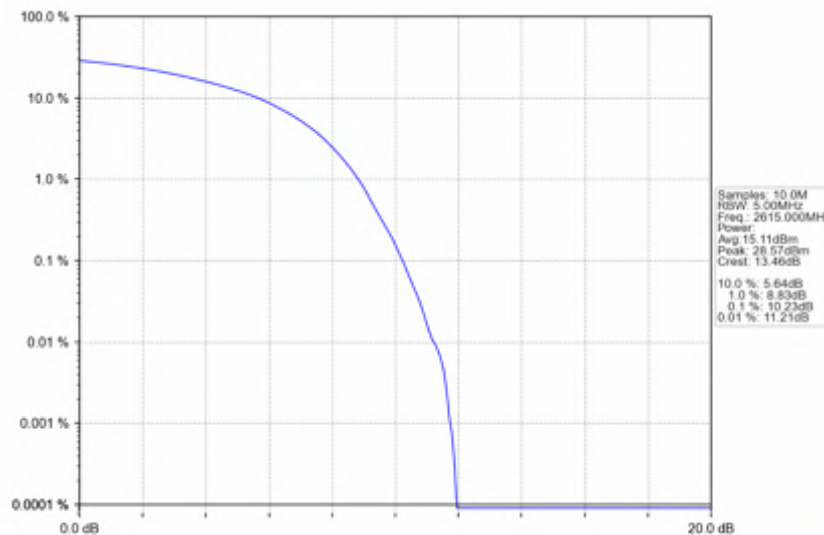
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n38_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_64_QAM_2595MHz_Outer_Full



n38_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_64_QAM_2615MHz_Outer_Full



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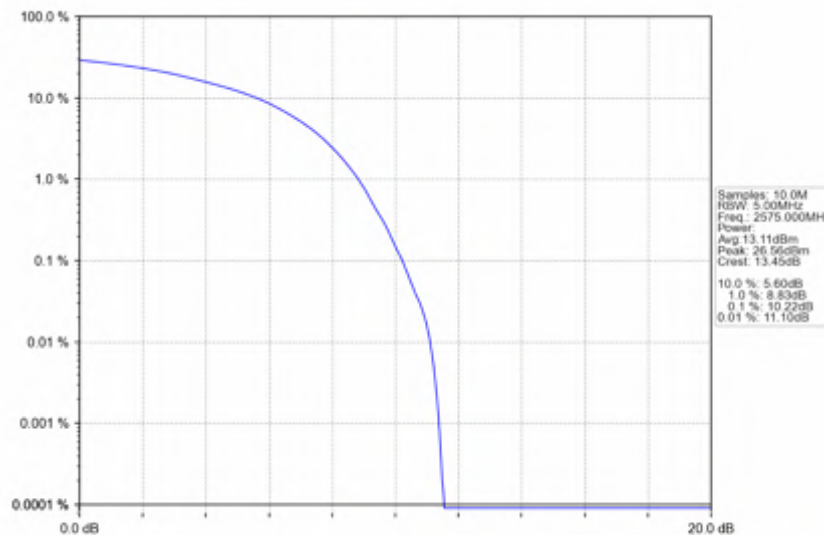
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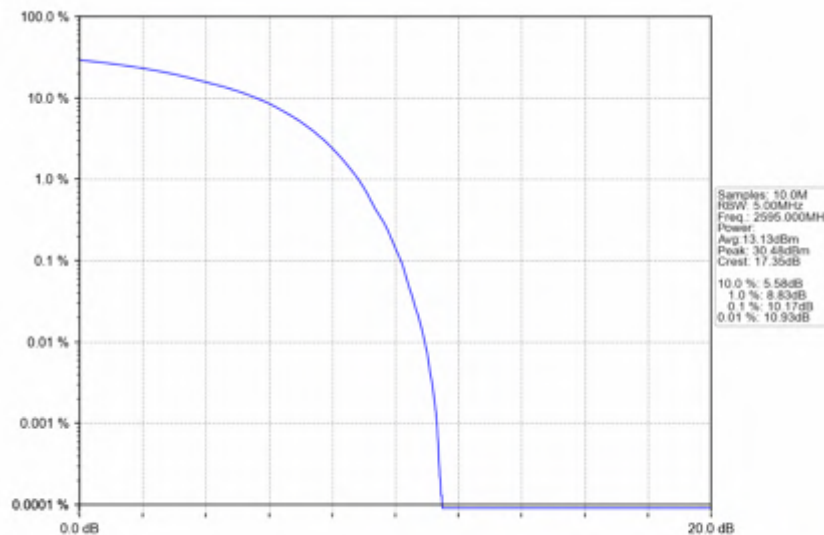
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n38_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256_QAM_2575MHz_Outer_Full



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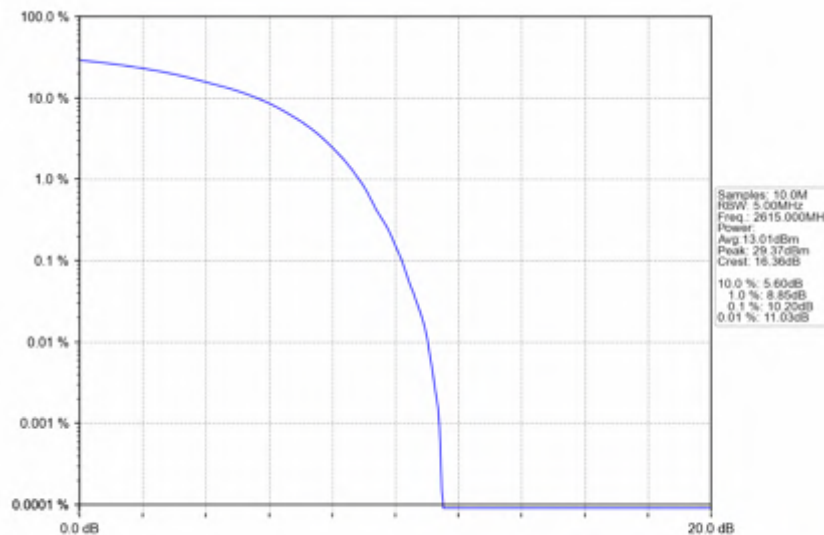
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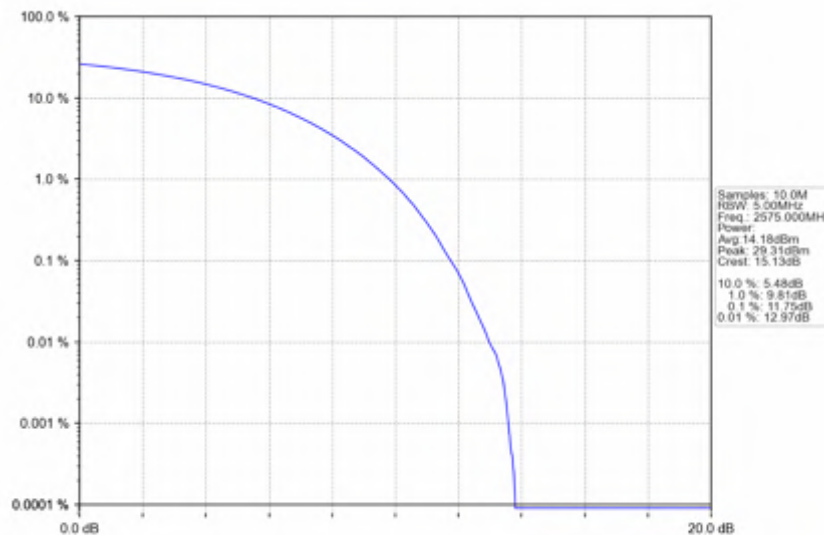
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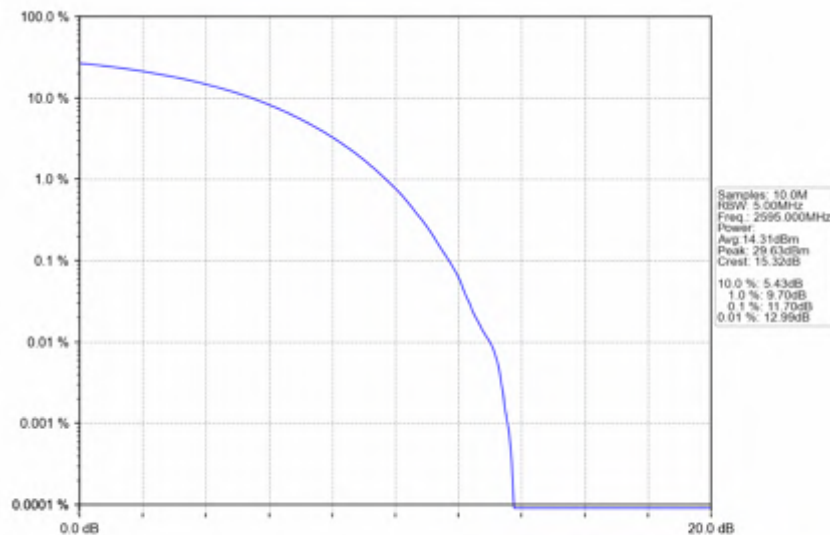


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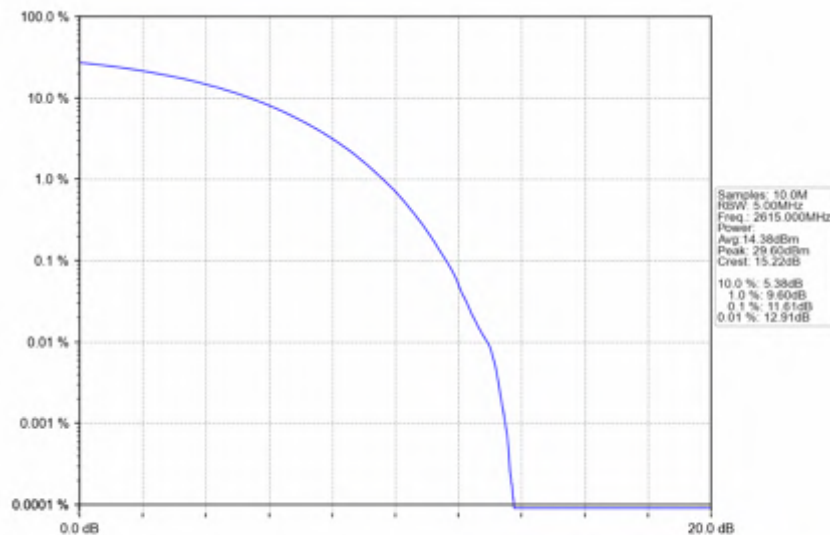
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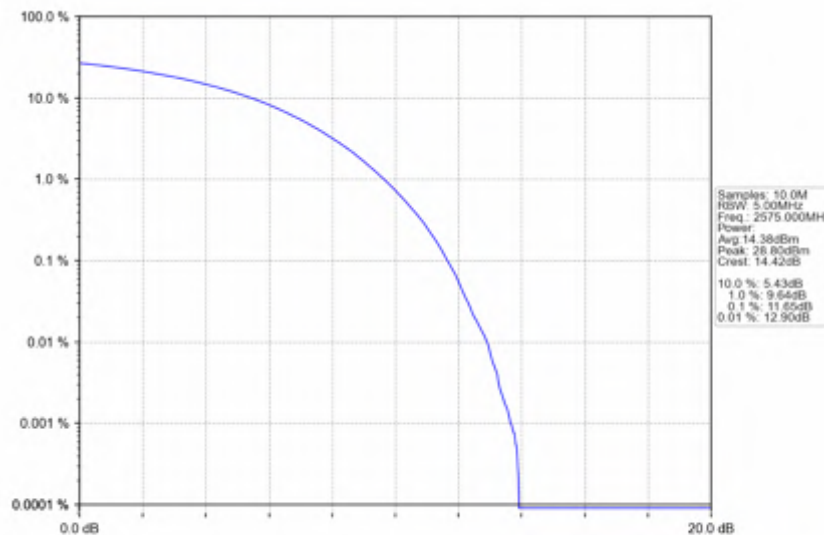
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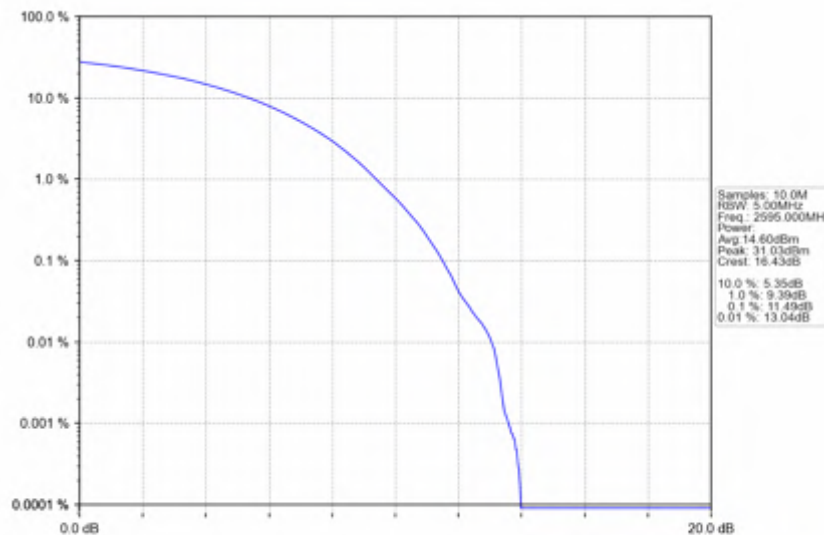
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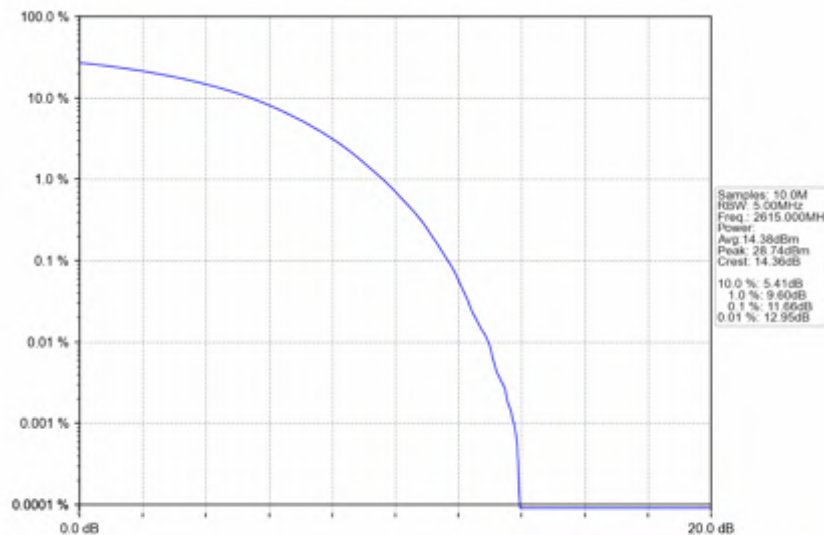
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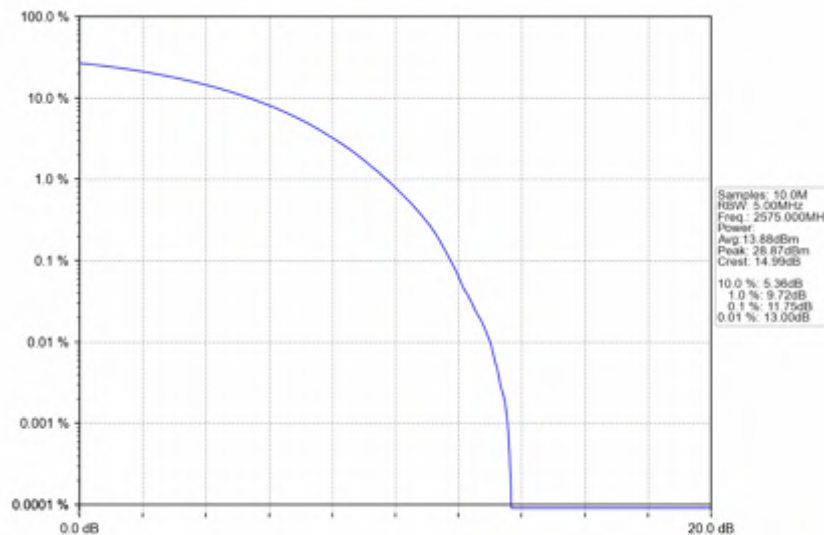
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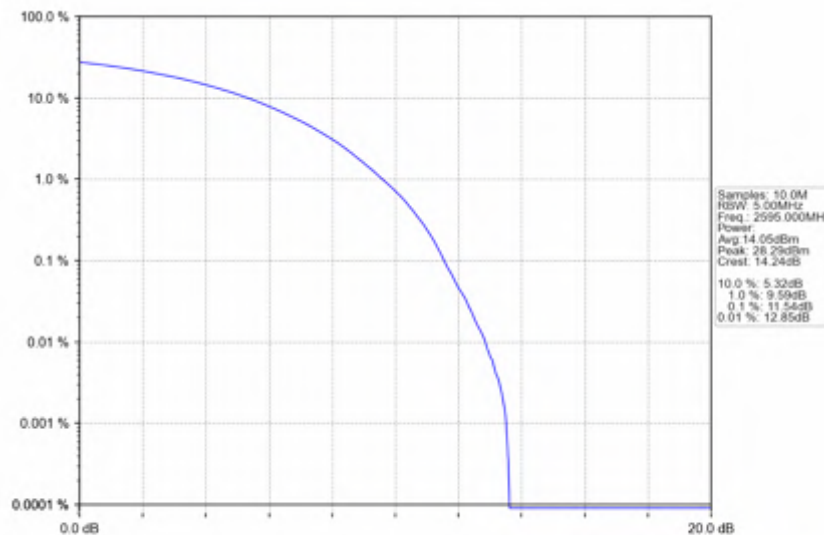


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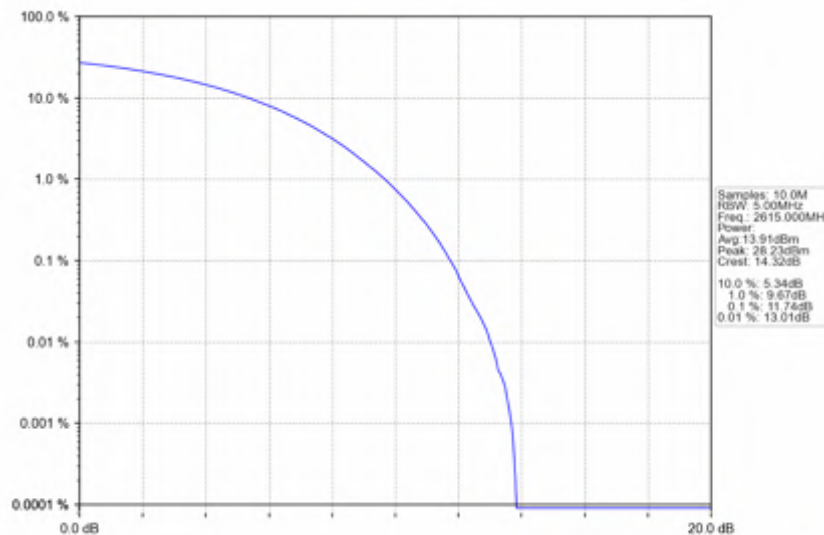
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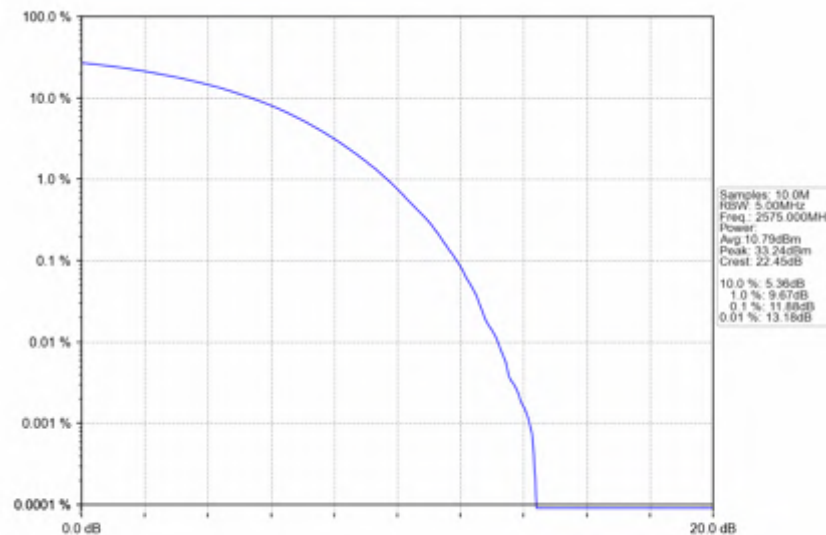
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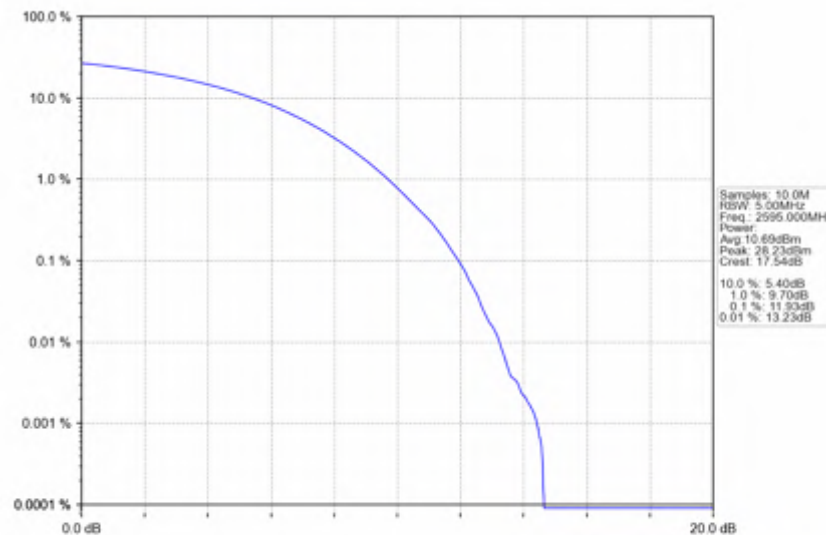
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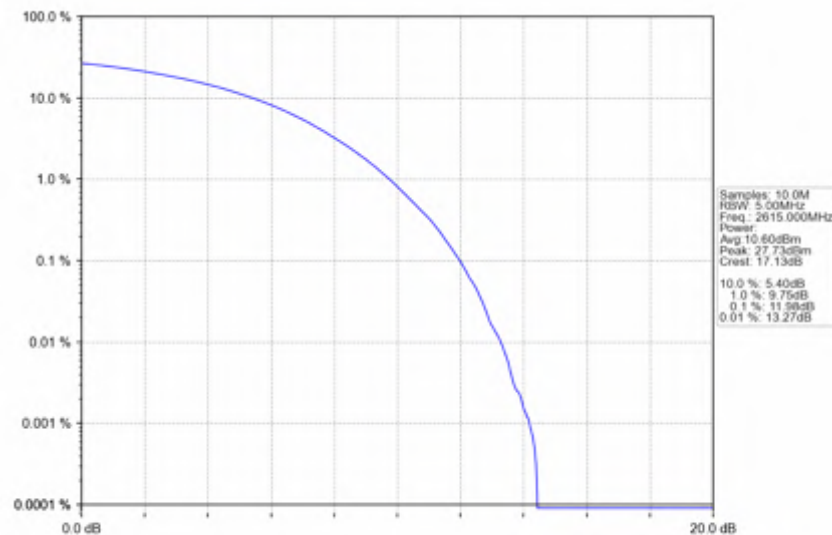
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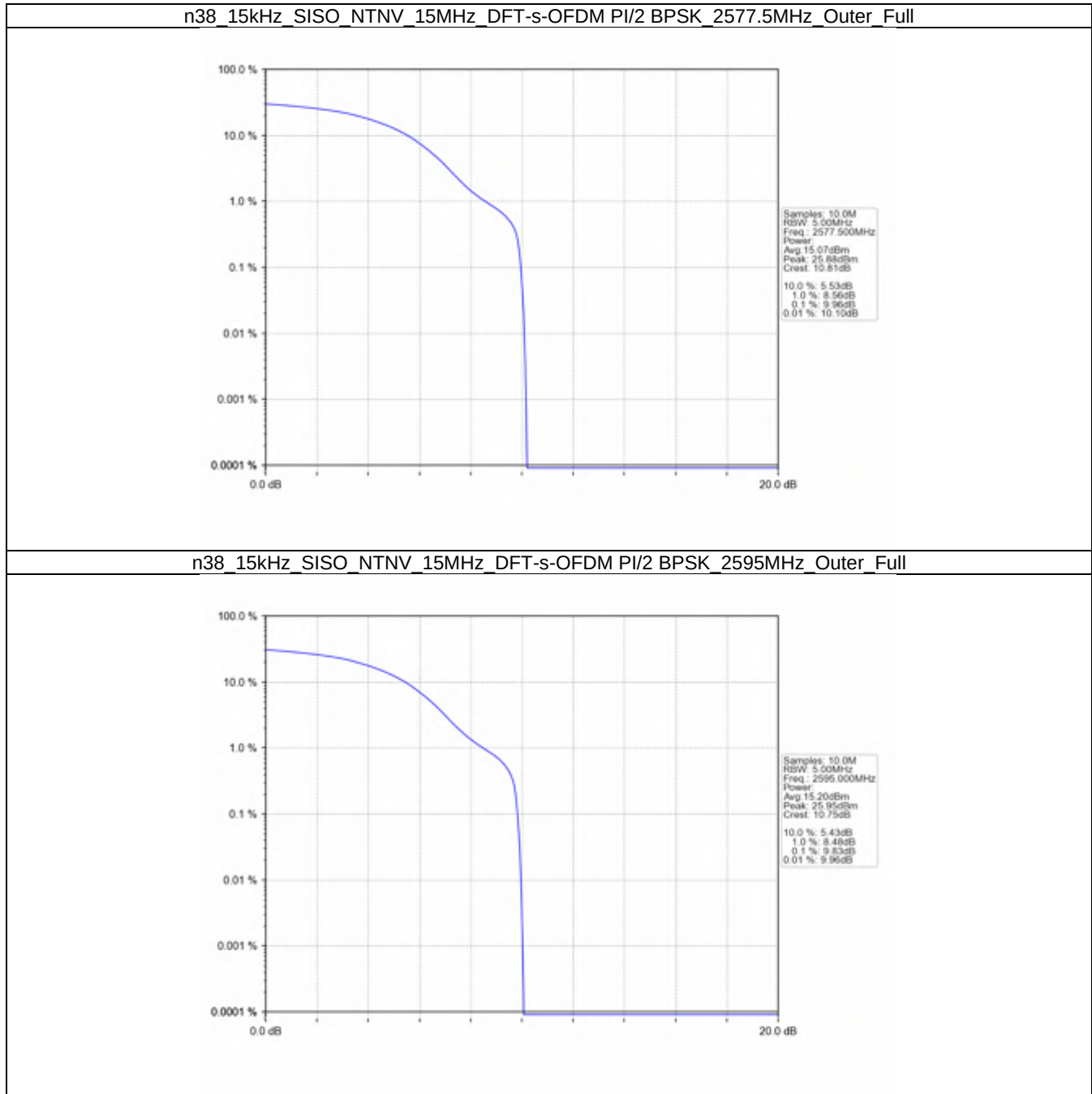
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5.3 15k_SISO_15MHz_NTNV

5.3.1 Test Result

5G NR n38 SCS=15kHz SISO 15MHz NTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2577.5	Outer_Full	9.96	/	/	<=13	Pass
	2595	Outer_Full	9.83	/	/	<=13	Pass
	2612.5	Outer_Full	9.82	/	/	<=13	Pass
DFT-s-OFDM QPSK	2577.5	Outer_Full	10.05	/	/	<=13	Pass
	2595	Outer_Full	10.06	/	/	<=13	Pass
	2612.5	Outer_Full	10.04	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2577.5	Outer_Full	10.02	/	/	<=13	Pass
	2595	Outer_Full	10.18	/	/	<=13	Pass
	2612.5	Outer_Full	10.19	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2577.5	Outer_Full	10.52	/	/	<=13	Pass
	2595	Outer_Full	10.60	/	/	<=13	Pass
	2612.5	Outer_Full	10.60	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2577.5	Outer_Full	10.64	/	/	<=13	Pass
	2595	Outer_Full	10.22	/	/	<=13	Pass
	2612.5	Outer_Full	10.65	/	/	<=13	Pass
CP-OFDM QPSK	2577.5	Outer_Full	11.46	/	/	<=13	Pass
	2595	Outer_Full	12.00	/	/	<=13	Pass
	2612.5	Outer_Full	12.07	/	/	<=13	Pass
CP-OFDM 16 QAM	2577.5	Outer_Full	11.84	/	/	<=13	Pass
	2595	Outer_Full	11.97	/	/	<=13	Pass
	2612.5	Outer_Full	11.93	/	/	<=13	Pass
CP-OFDM 64 QAM	2577.5	Outer_Full	11.96	/	/	<=13	Pass
	2595	Outer_Full	11.91	/	/	<=13	Pass
	2612.5	Outer_Full	11.86	/	/	<=13	Pass
CP-OFDM 256 QAM	2577.5	Outer_Full	11.69	/	/	<=13	Pass
	2595	Outer_Full	11.66	/	/	<=13	Pass
	2612.5	Outer_Full	11.75	/	/	<=13	Pass

5.3.2 Test Graph



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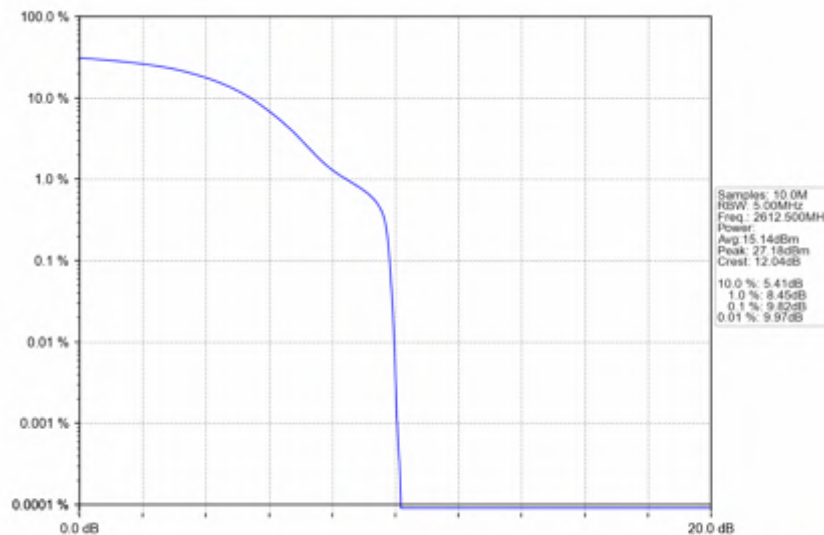
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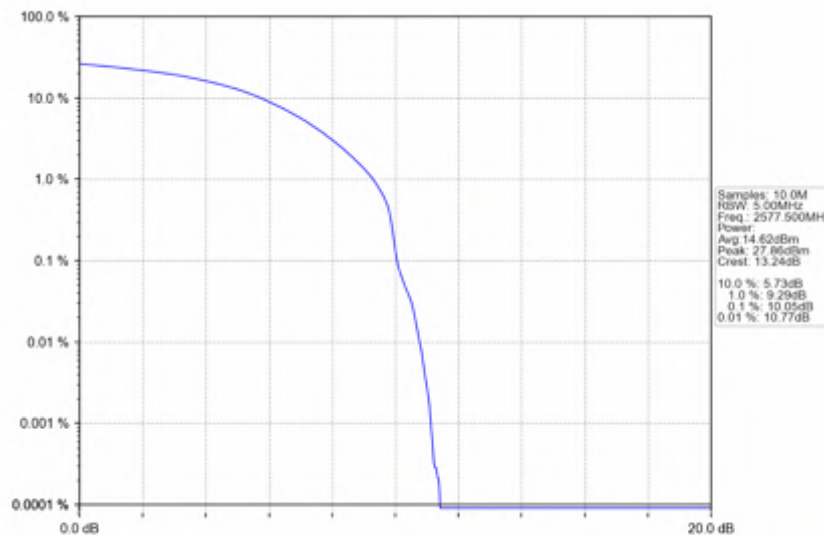
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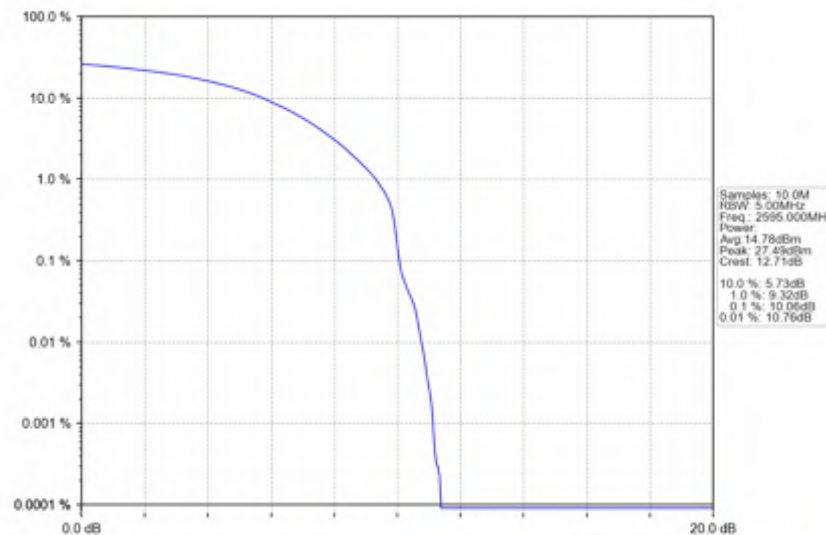
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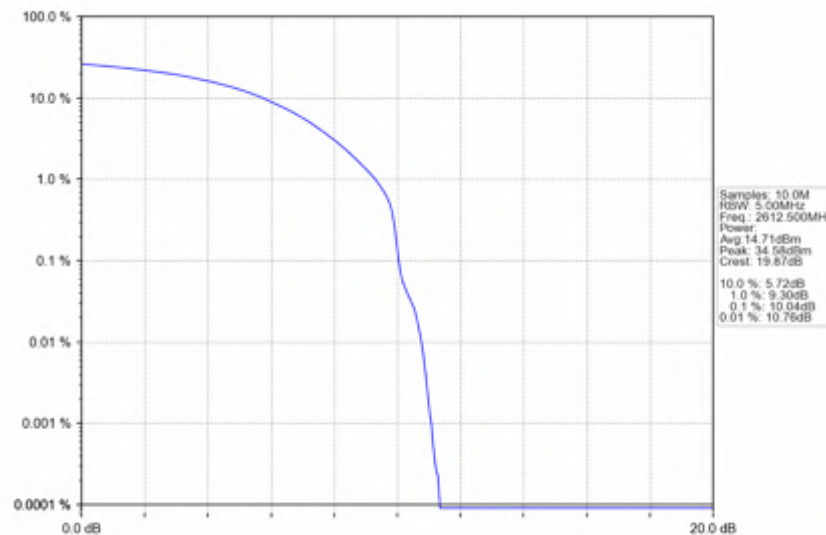
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n38_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_2595MHz_Outer_Full



n38_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_2612.5MHz_Outer_Full

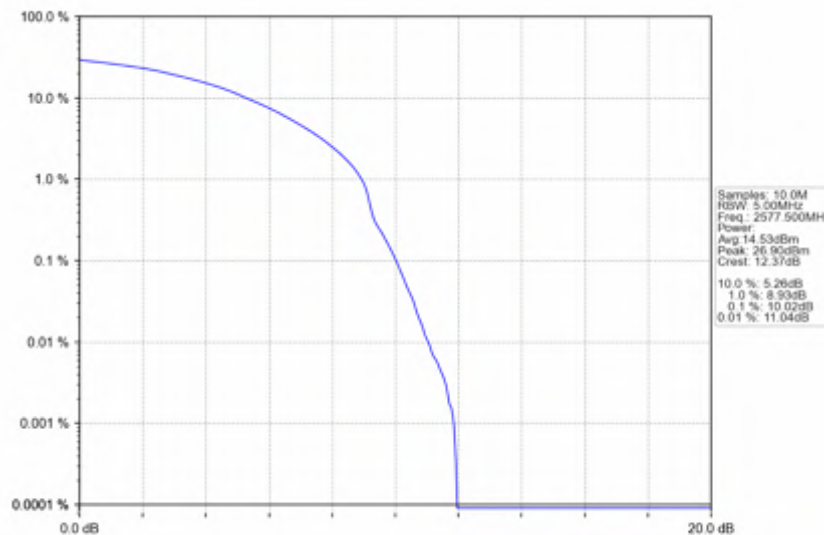


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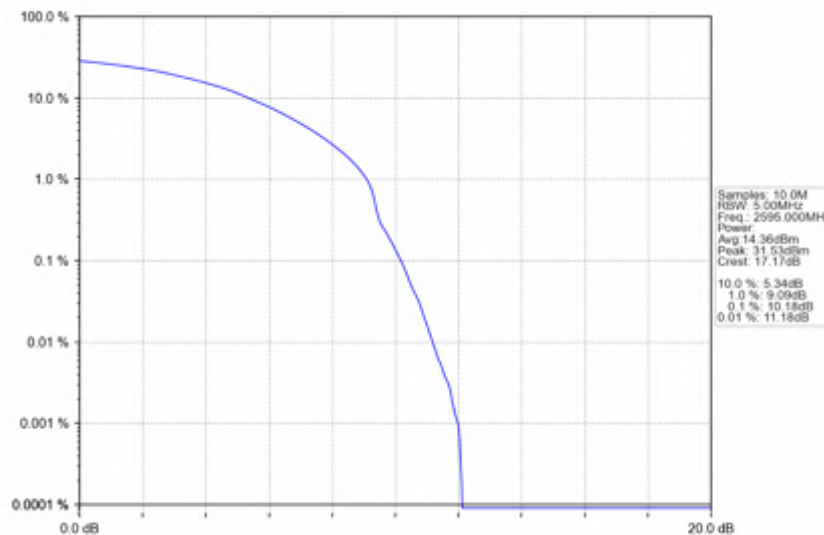
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n38_15kHz_SISO_NTV_15MHz_DFT-s-OFDM_16_QAM_2577.5MHz_Outer_Full



n38_15kHz_SISO_NTV_15MHz_DFT-s-OFDM_16_QAM_2595MHz_Outer_Full

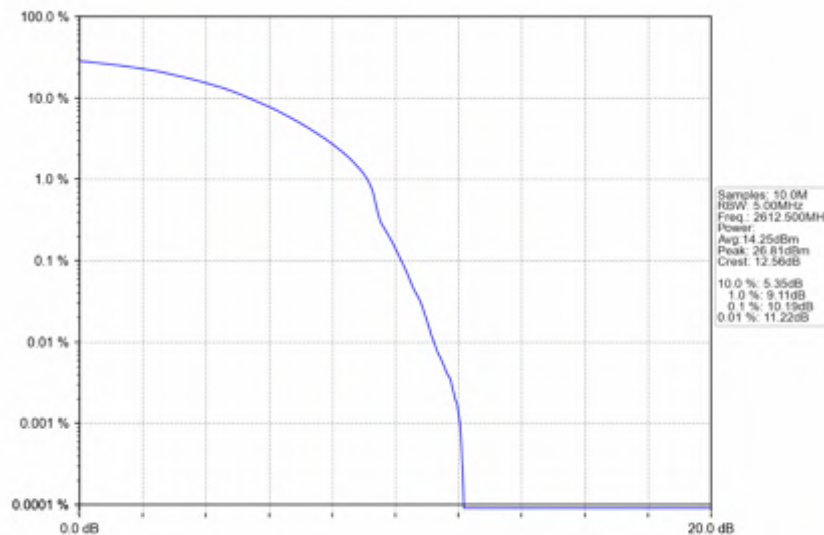


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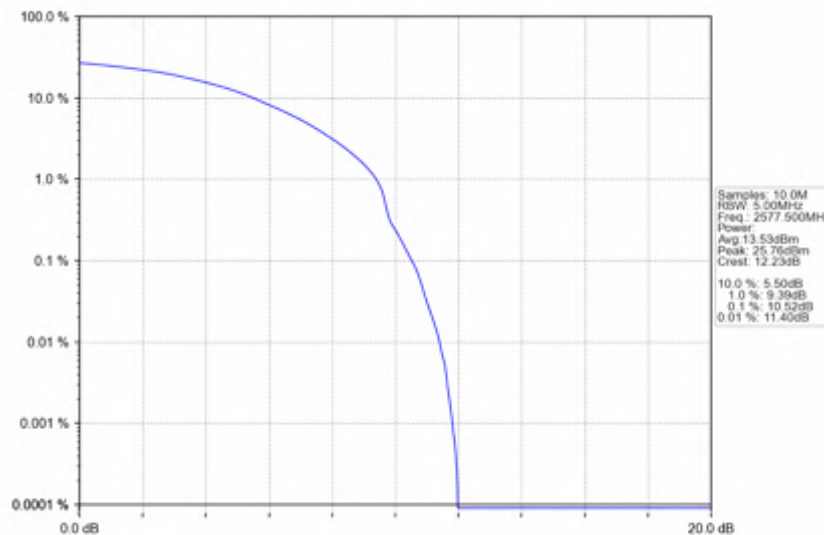
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n38_15kHz_SISO_NTV_15MHz_DFT-s-OFDM 16 QAM_2612.5MHz_Outer_Full



n38_15kHz_SISO_NTV_15MHz_DFT-s-OFDM 64 QAM_2577.5MHz_Outer_Full



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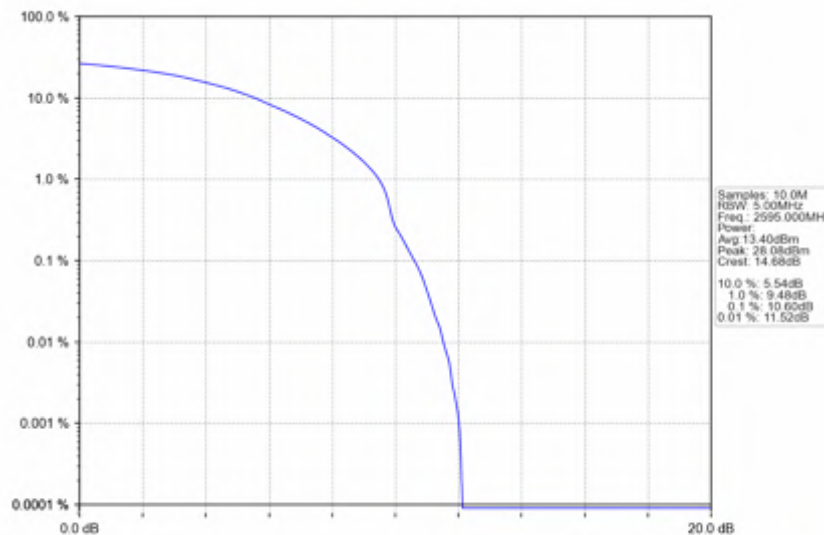
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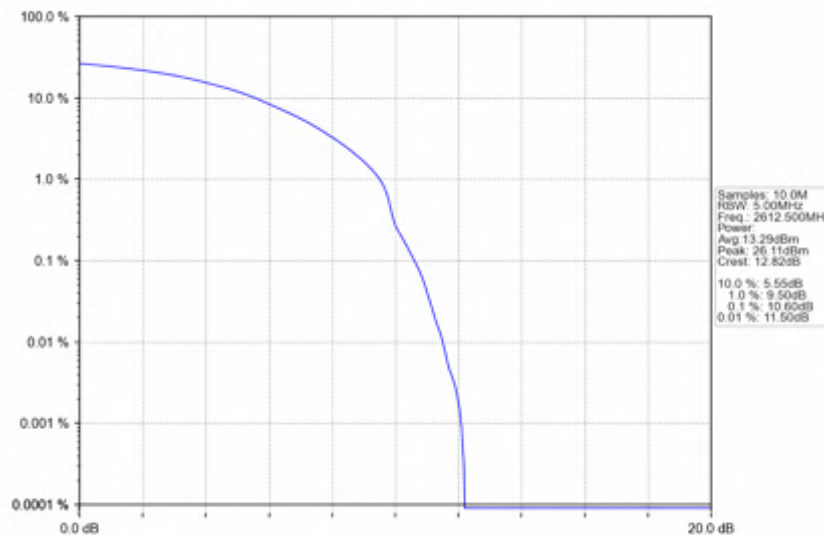
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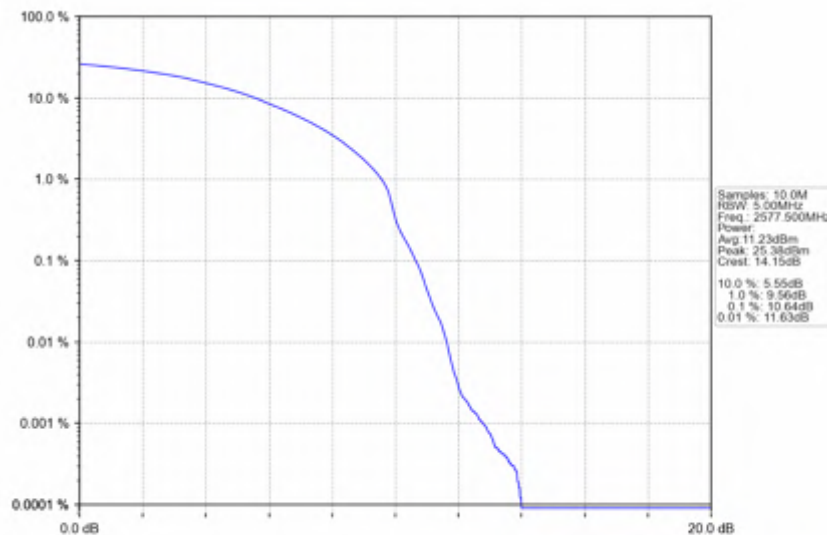
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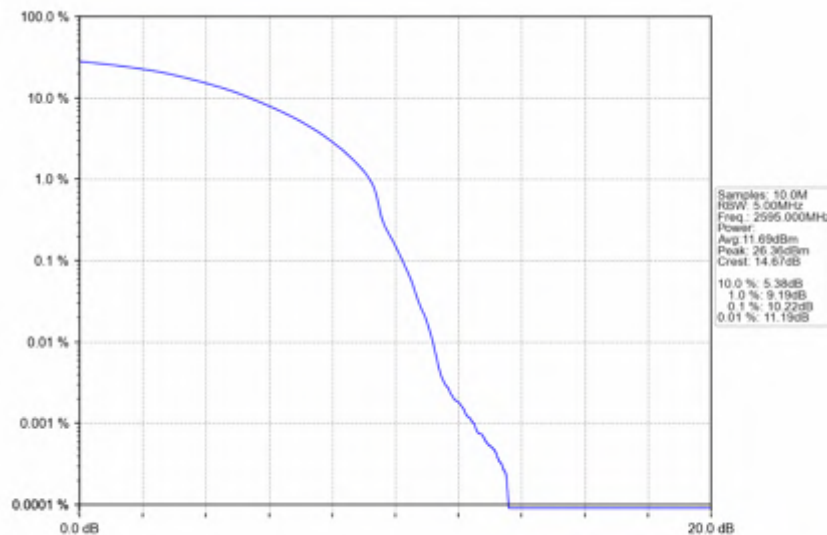
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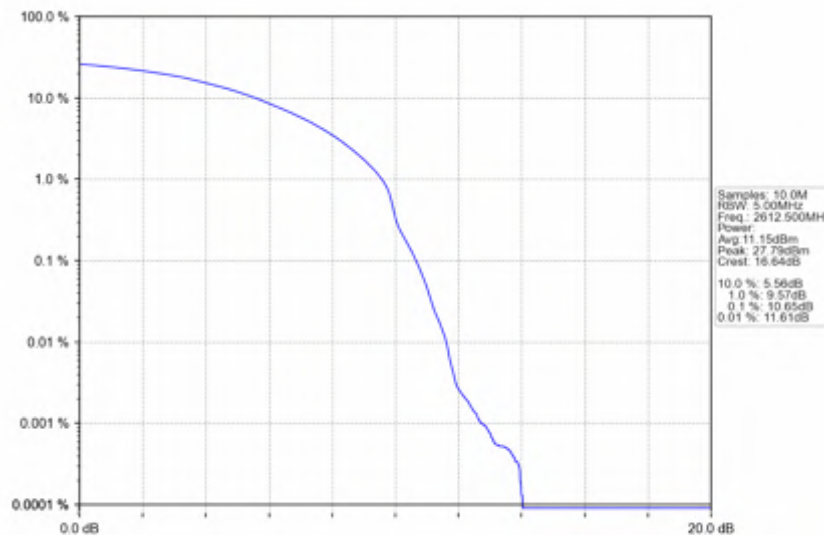


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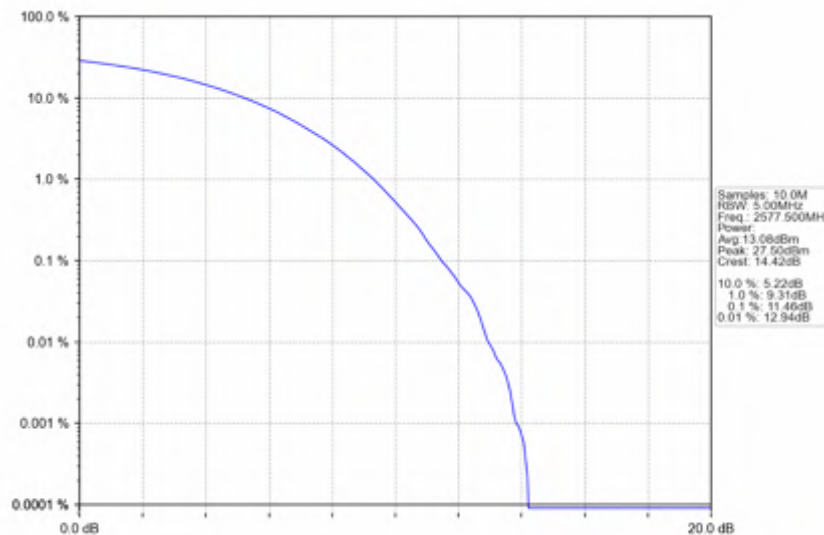
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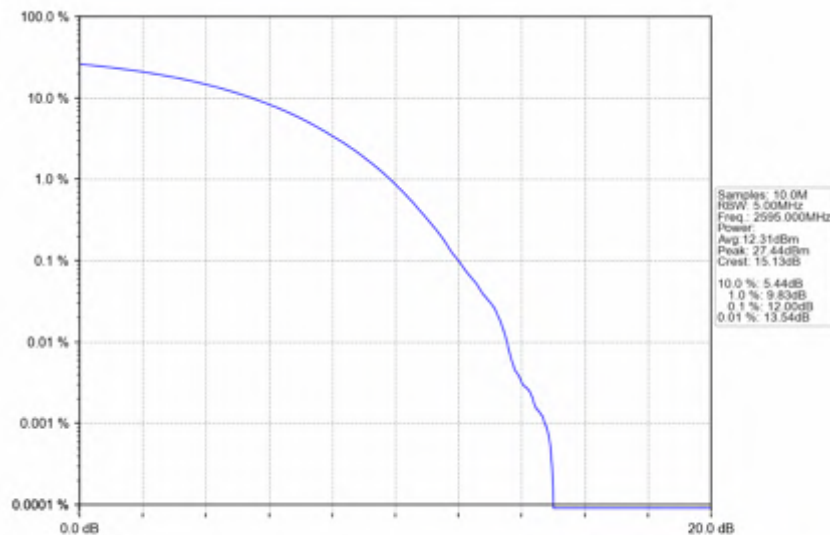


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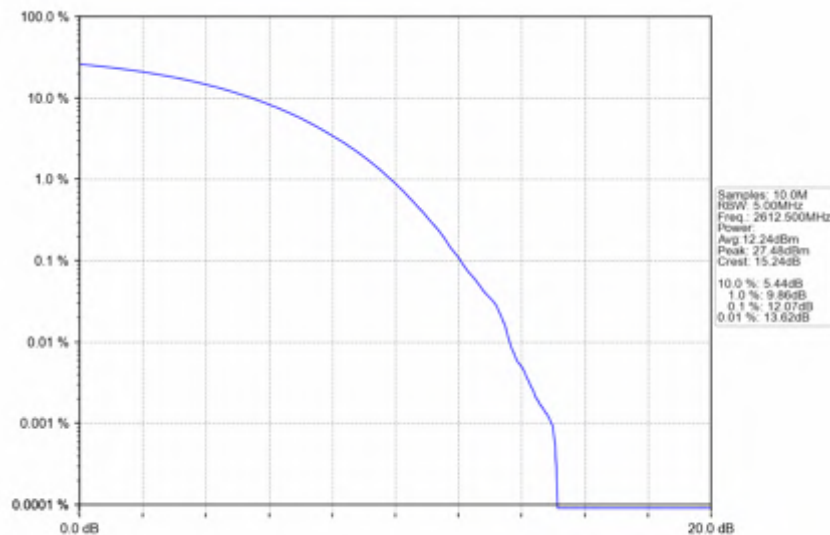
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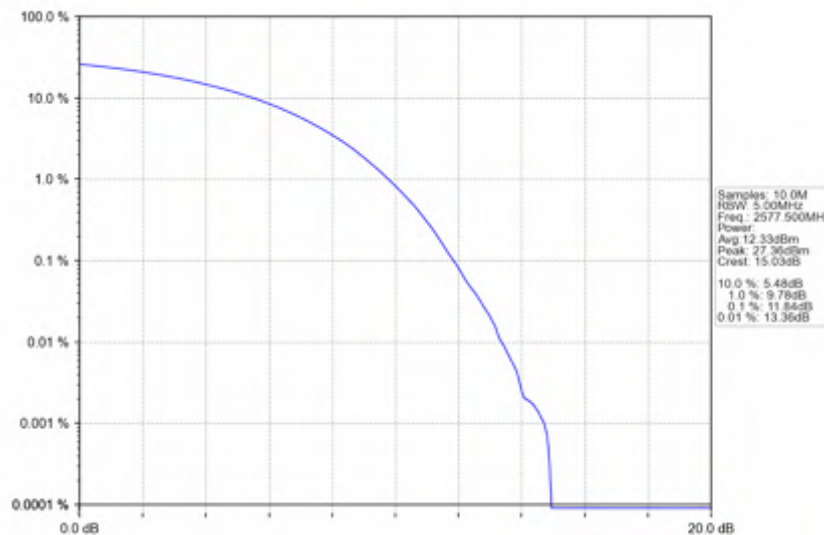


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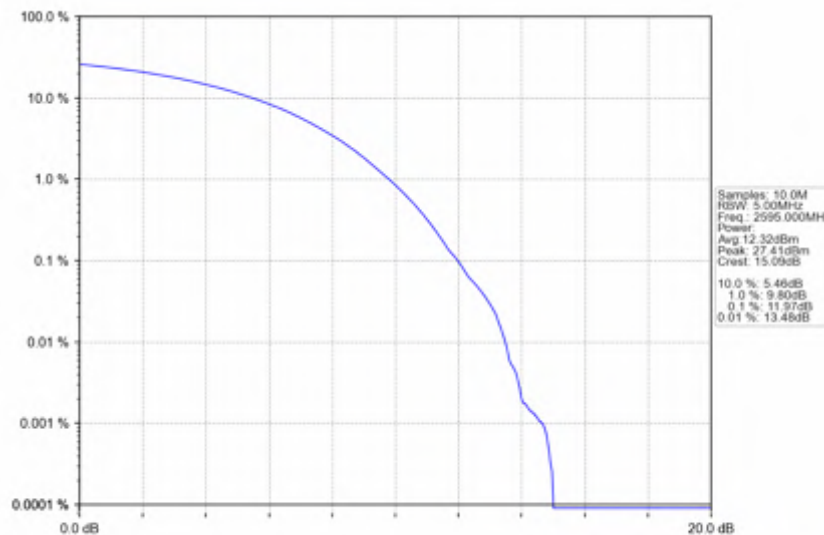
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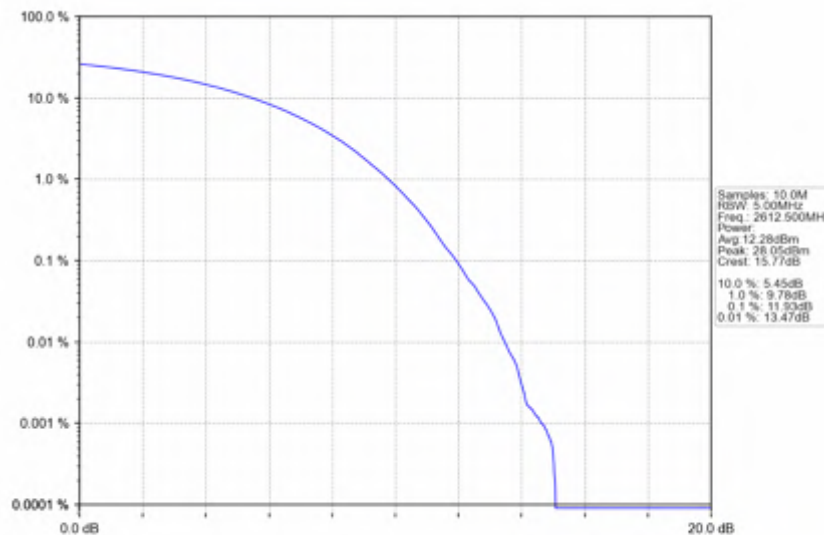
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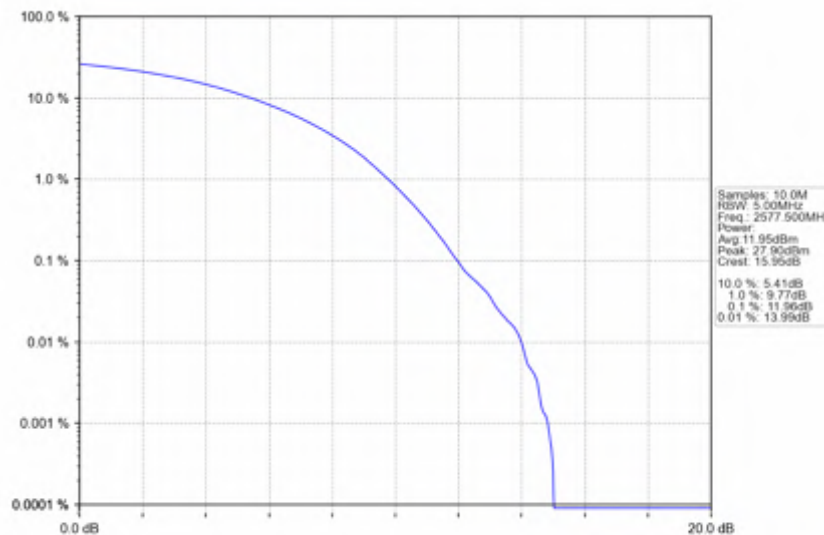
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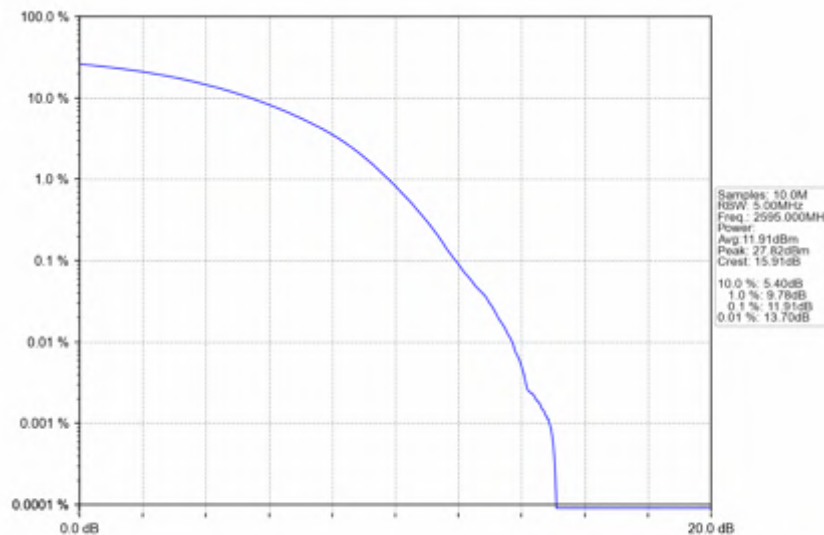


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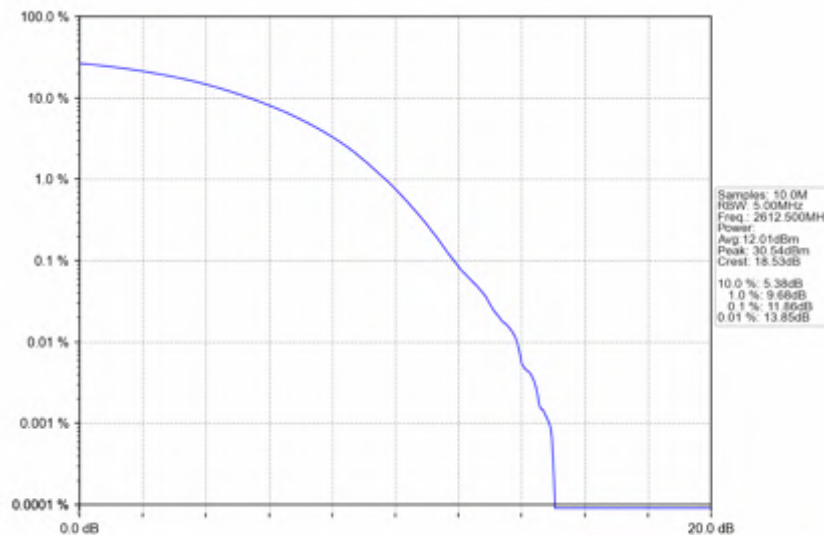
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n38	15kHz	SISO	NTNV	15MHz	CP-OFDM	64 QAM	2612.5MHz	Outer	Full
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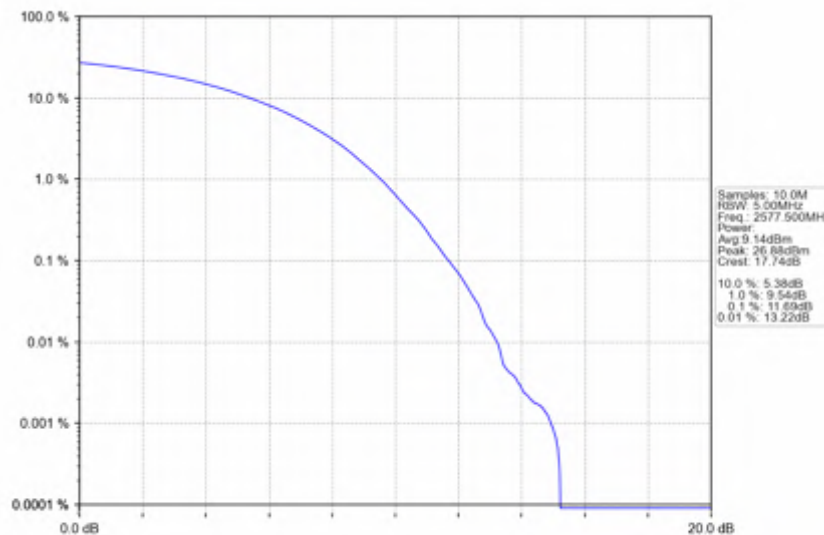


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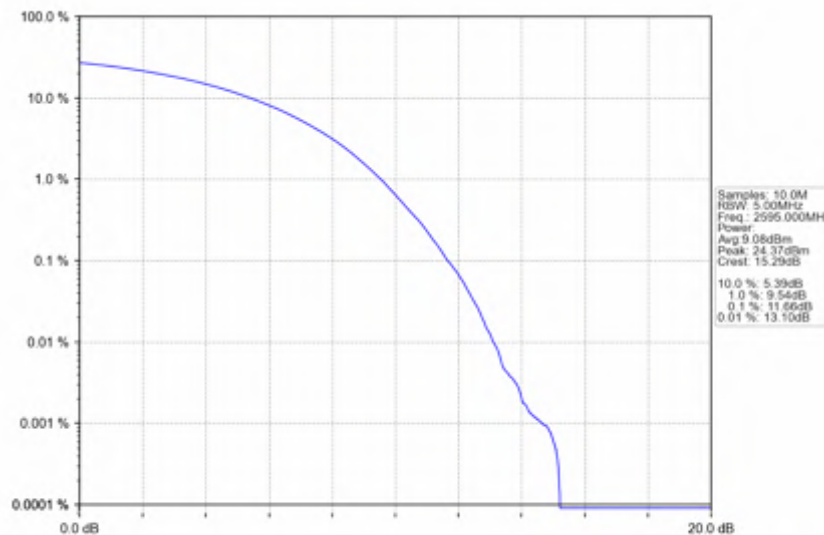
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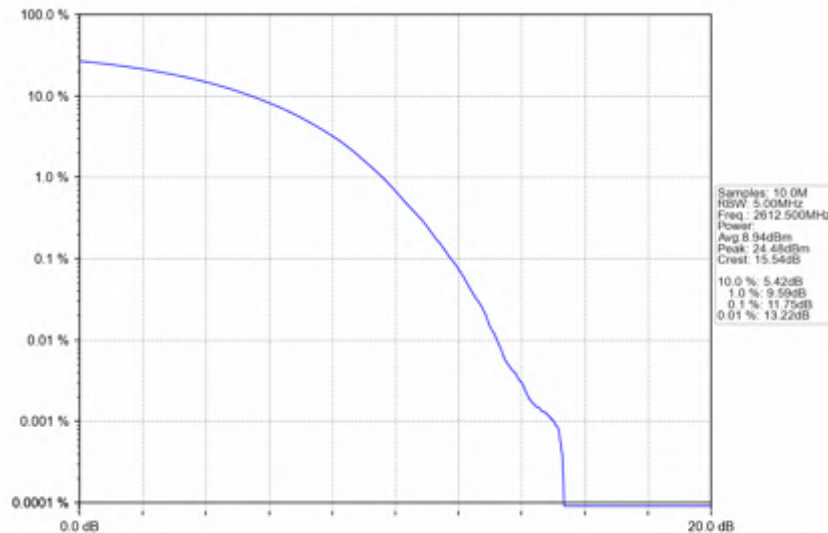
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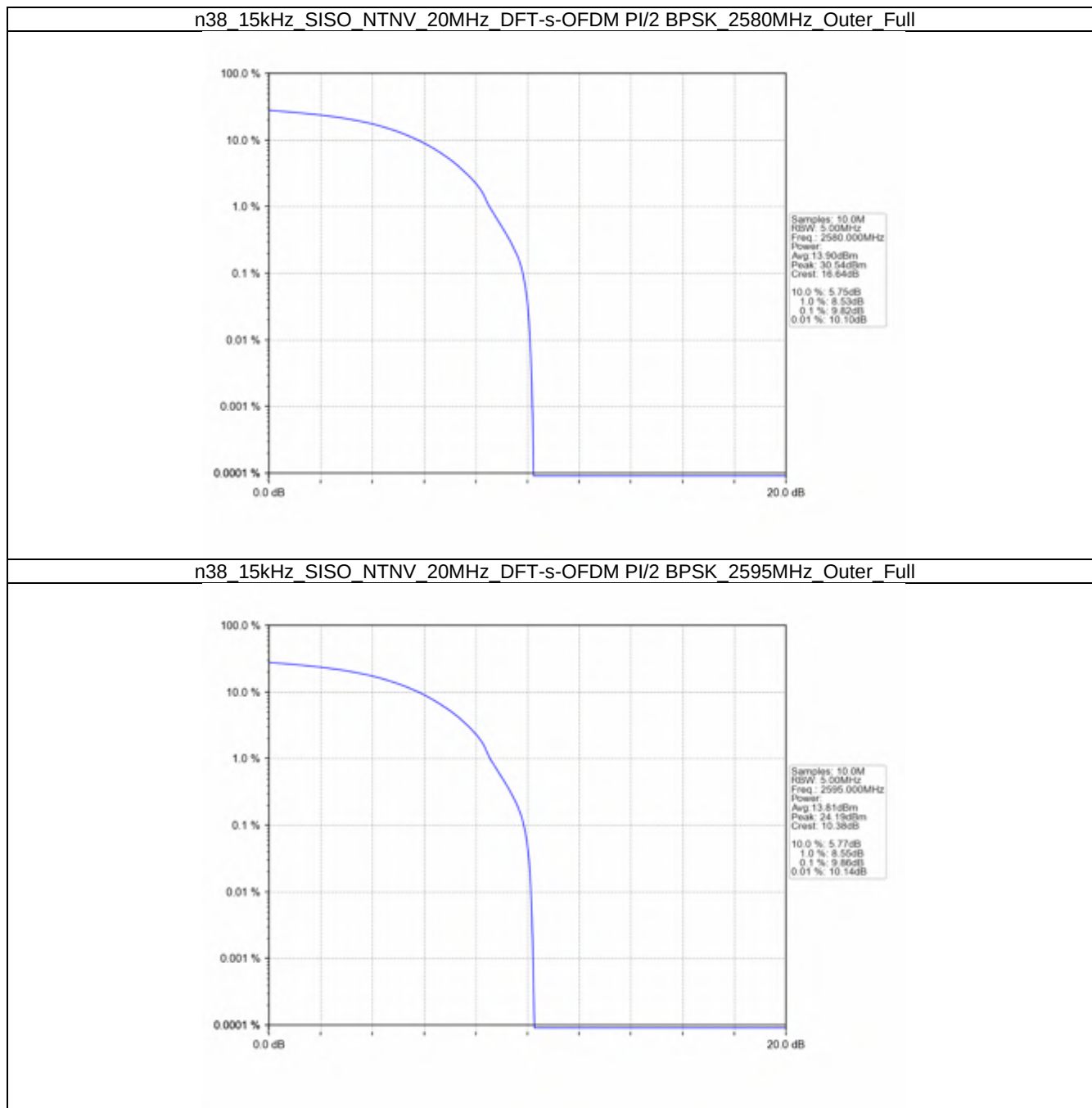
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5.4 15k_SISO_20MHz_NTNV

5.4.1 Test Result

5G NR n38 SCS=15kHz SISO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2580	Outer_Full	9.82	/	/	<=13	Pass
	2595	Outer_Full	9.86	/	/	<=13	Pass
	2610	Outer_Full	9.85	/	/	<=13	Pass
DFT-s-OFDM QPSK	2580	Outer_Full	10.38	/	/	<=13	Pass
	2595	Outer_Full	10.48	/	/	<=13	Pass
	2610	Outer_Full	10.43	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2580	Outer_Full	10.73	/	/	<=13	Pass
	2595	Outer_Full	10.91	/	/	<=13	Pass
	2610	Outer_Full	10.92	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2580	Outer_Full	11.06	/	/	<=13	Pass
	2595	Outer_Full	10.83	/	/	<=13	Pass
	2610	Outer_Full	10.96	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2580	Outer_Full	10.85	/	/	<=13	Pass
	2595	Outer_Full	10.75	/	/	<=13	Pass
	2610	Outer_Full	11.04	/	/	<=13	Pass
CP-OFDM QPSK	2580	Outer_Full	11.56	/	/	<=13	Pass
	2595	Outer_Full	11.62	/	/	<=13	Pass
	2610	Outer_Full	11.84	/	/	<=13	Pass
CP-OFDM 16 QAM	2580	Outer_Full	11.75	/	/	<=13	Pass
	2595	Outer_Full	11.84	/	/	<=13	Pass
	2610	Outer_Full	11.77	/	/	<=13	Pass
CP-OFDM 64 QAM	2580	Outer_Full	11.80	/	/	<=13	Pass
	2595	Outer_Full	11.55	/	/	<=13	Pass
	2610	Outer_Full	11.63	/	/	<=13	Pass
CP-OFDM 256 QAM	2580	Outer_Full	11.83	/	/	<=13	Pass
	2595	Outer_Full	11.80	/	/	<=13	Pass
	2610	Outer_Full	11.39	/	/	<=13	Pass

5.4.2 Test Graph



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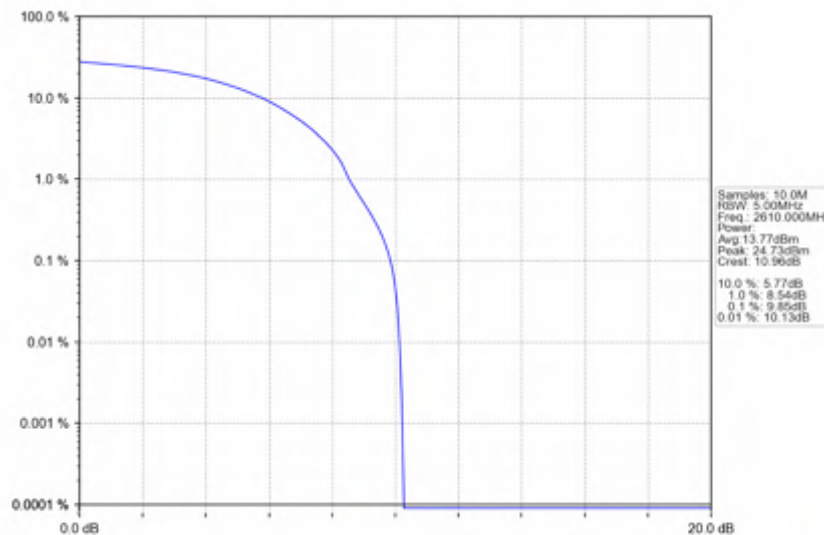
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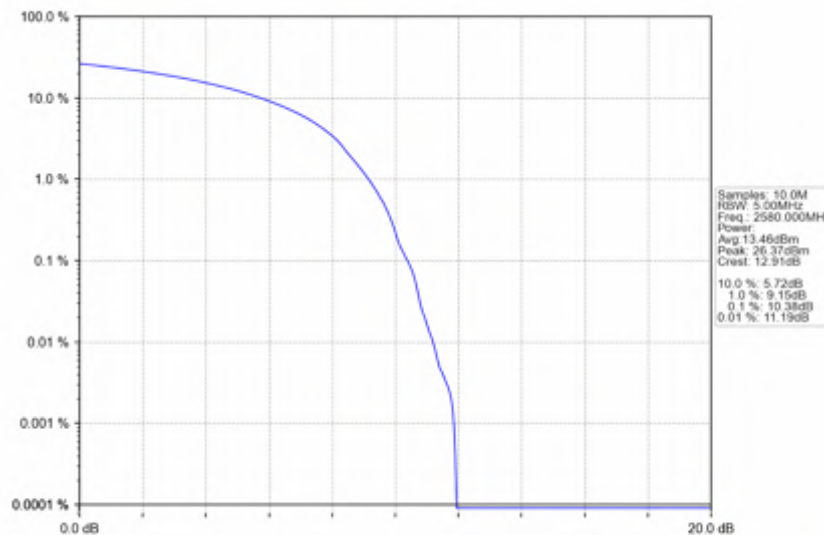
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n38_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_2610MHz_Outer_Full



n38_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2580MHz_Outer_Full

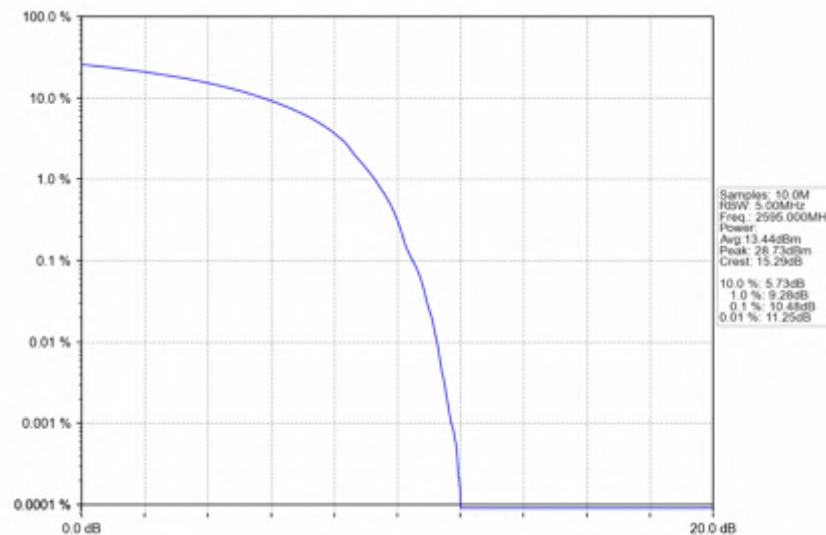


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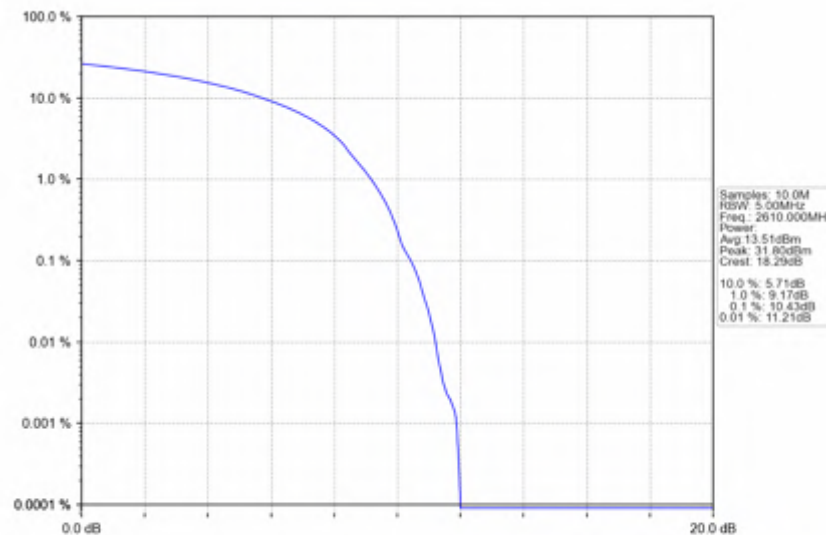
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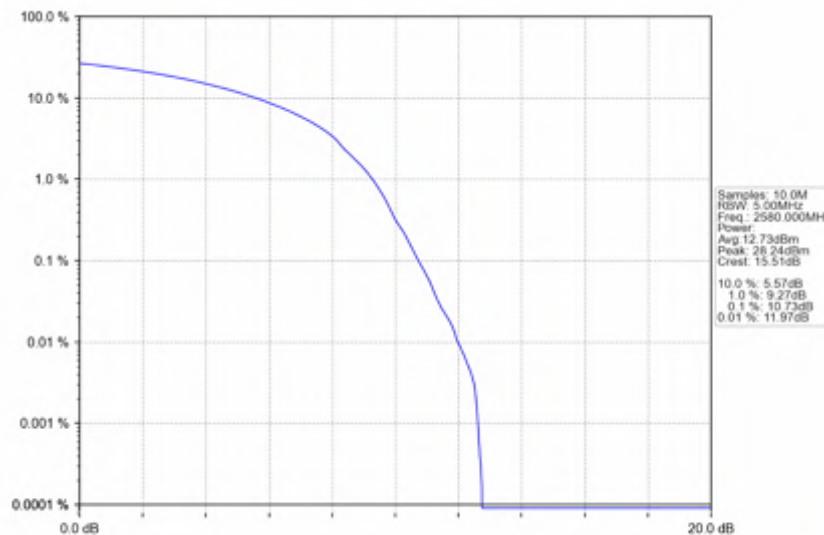


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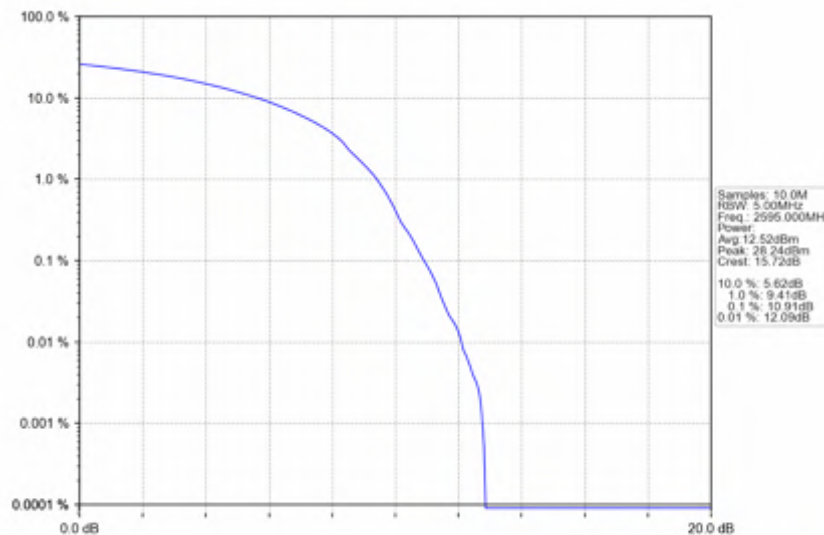
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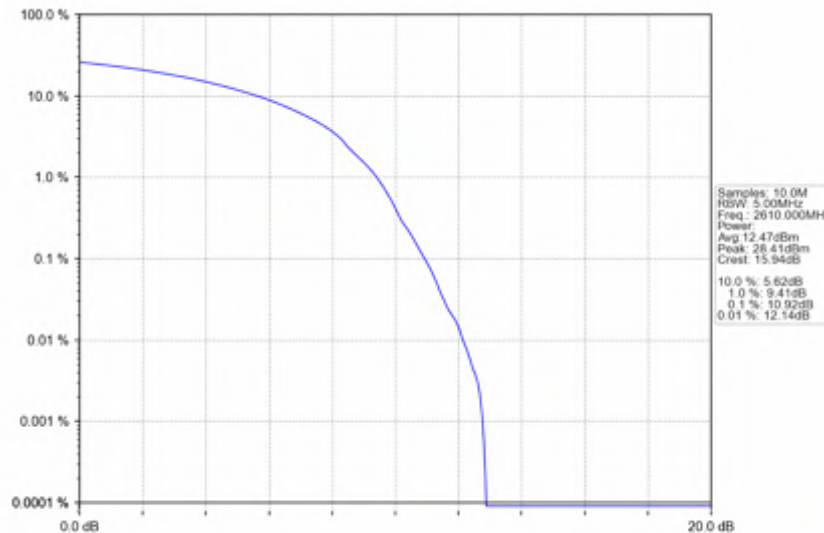


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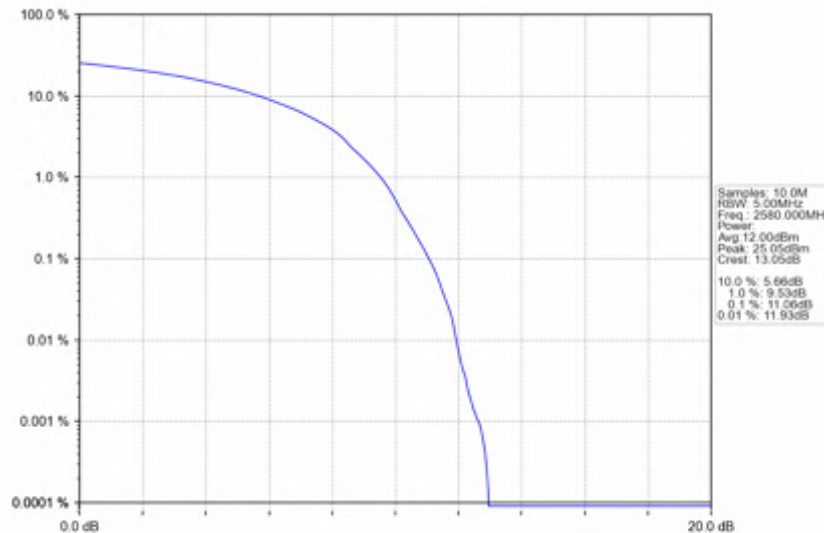
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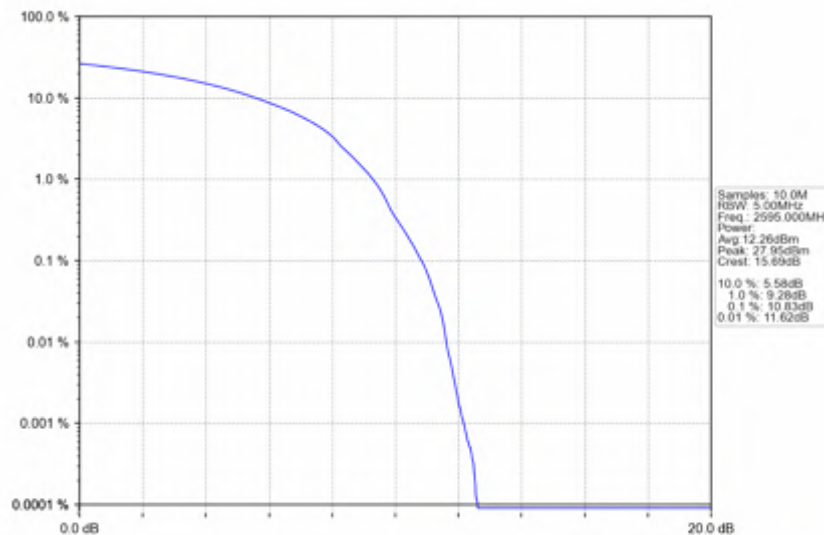


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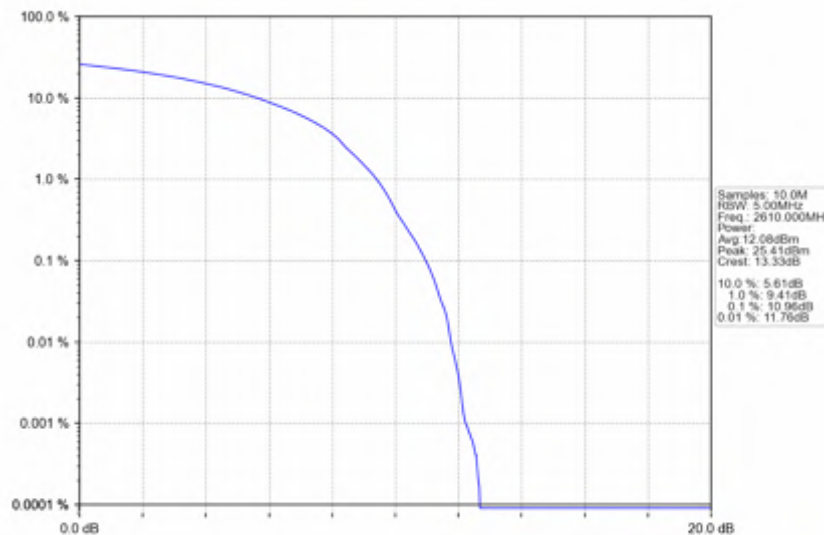
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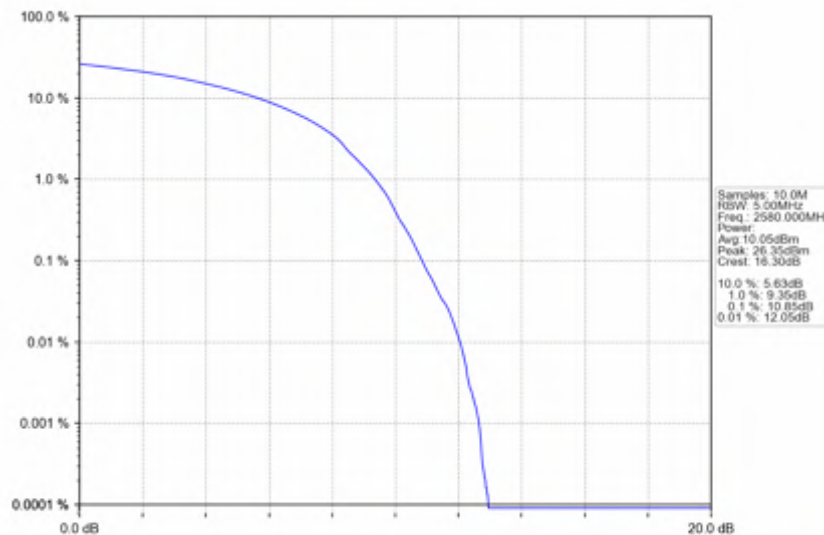
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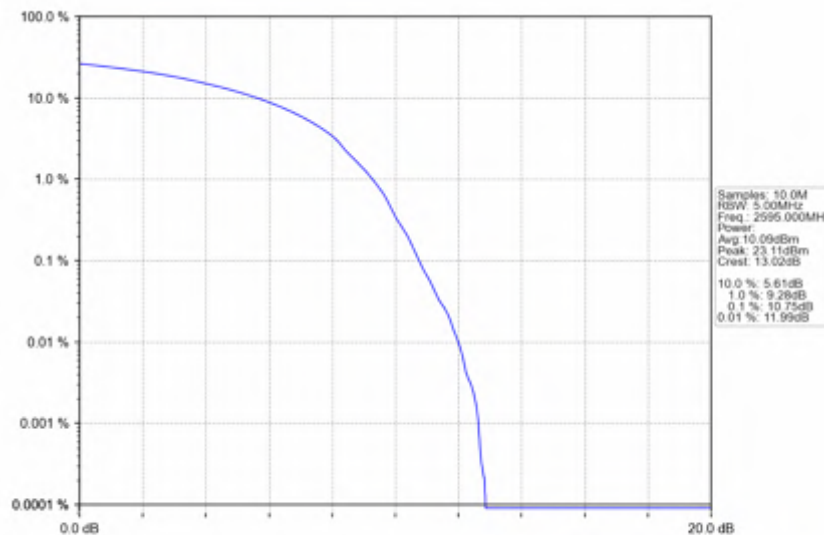
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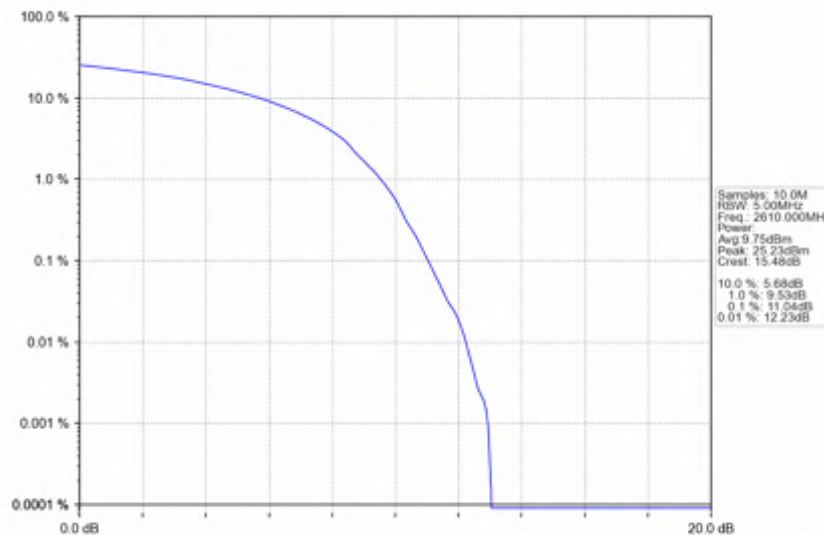
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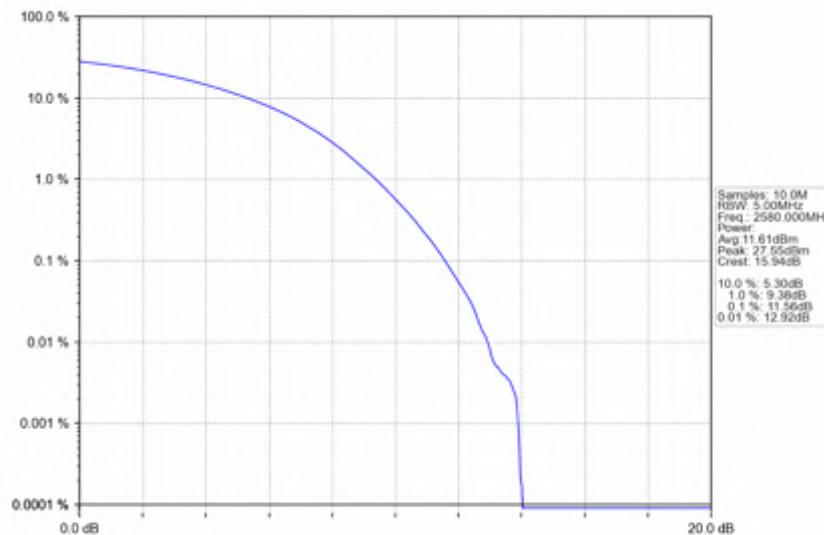
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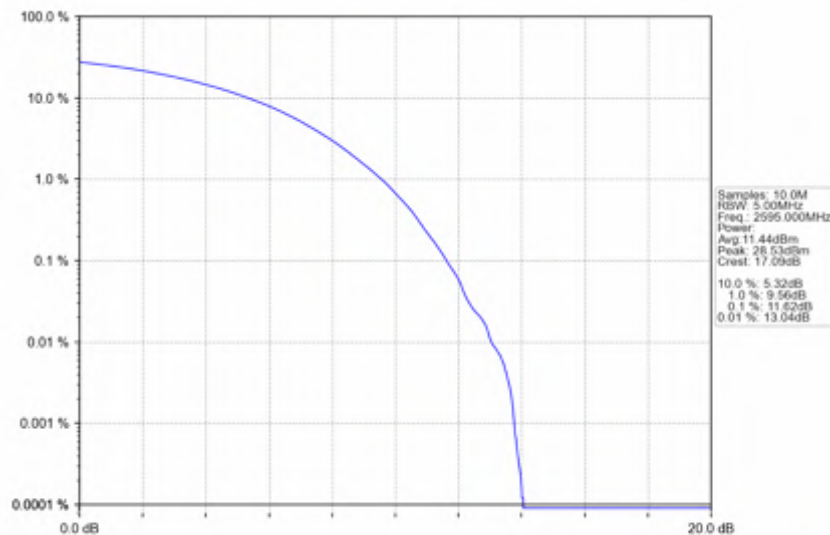


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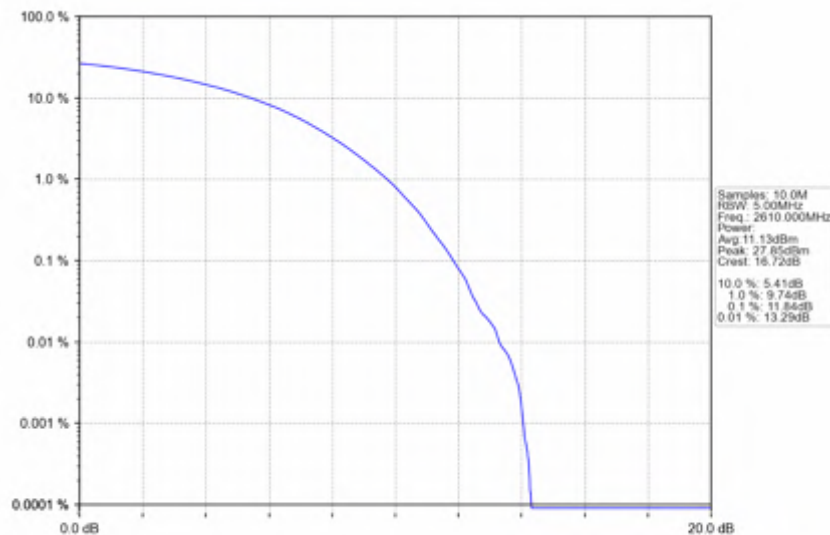
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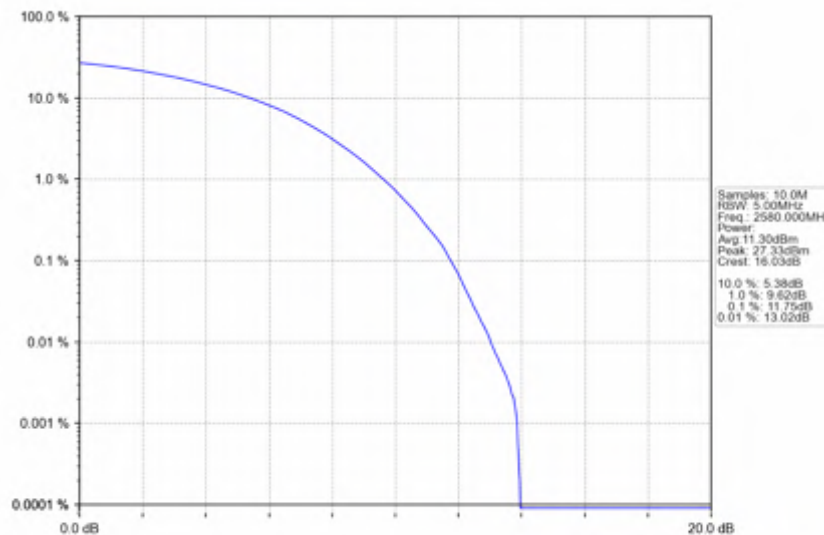
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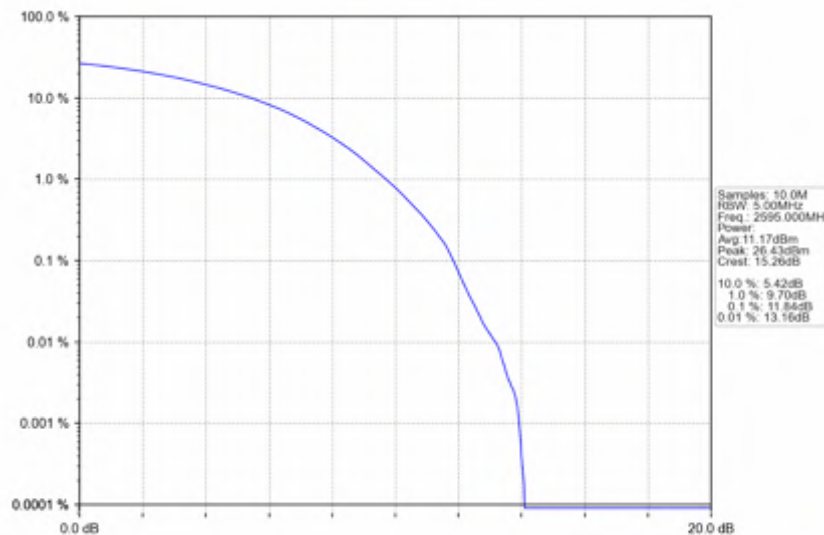
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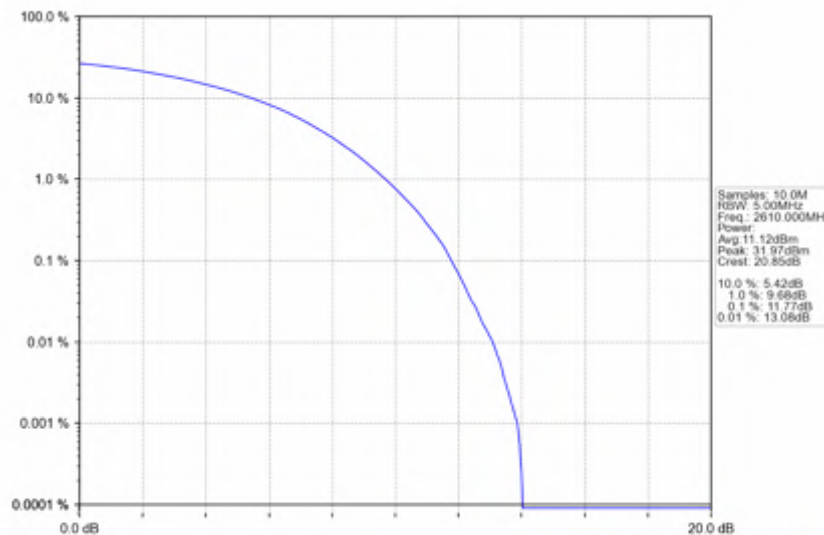


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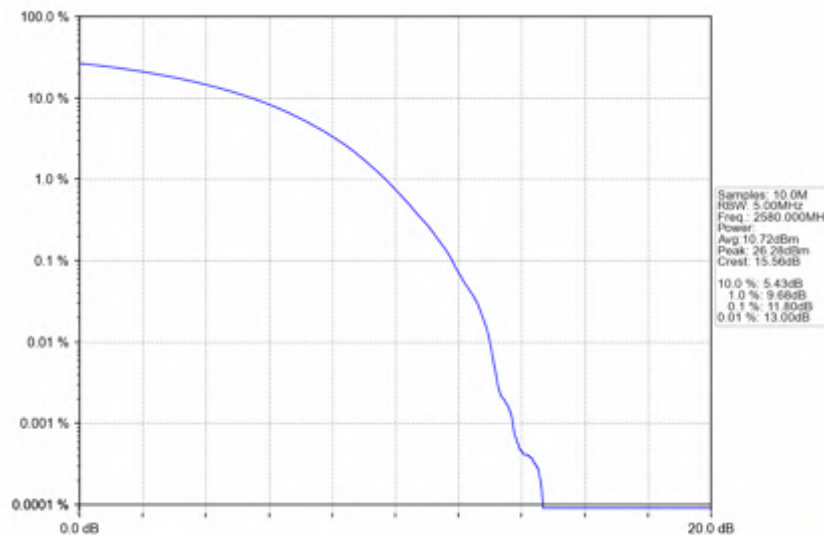
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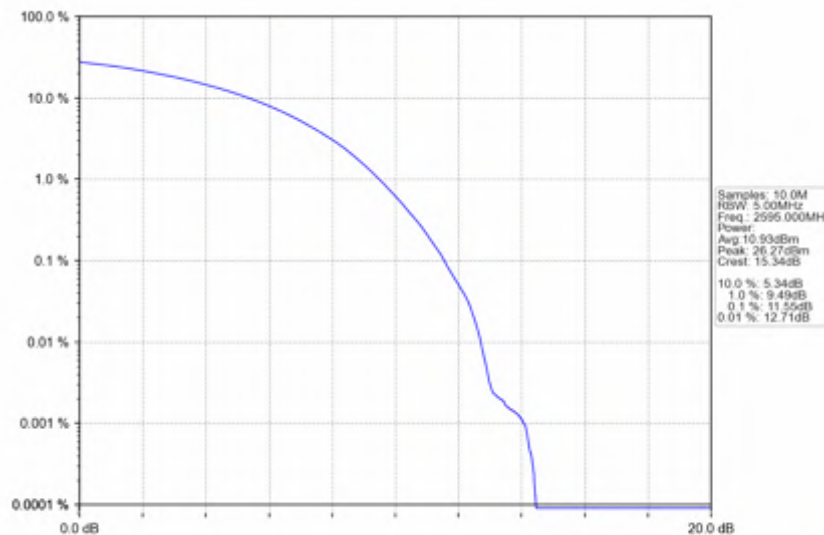
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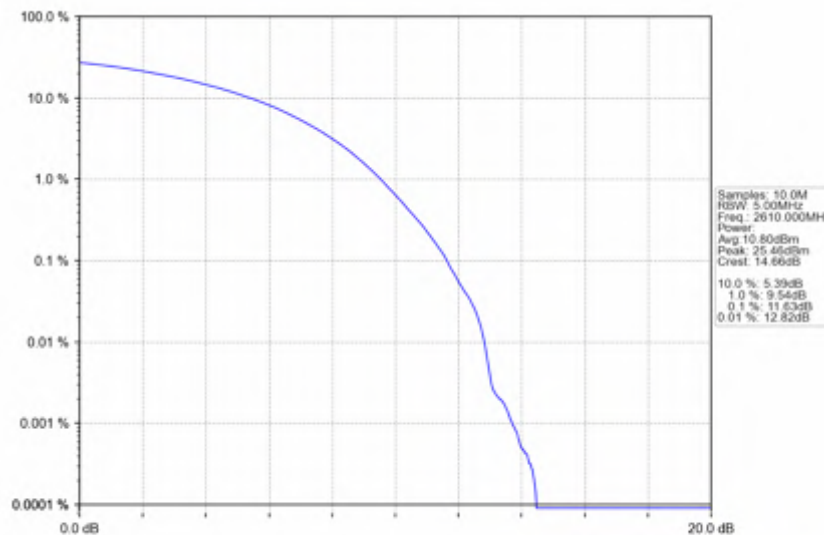
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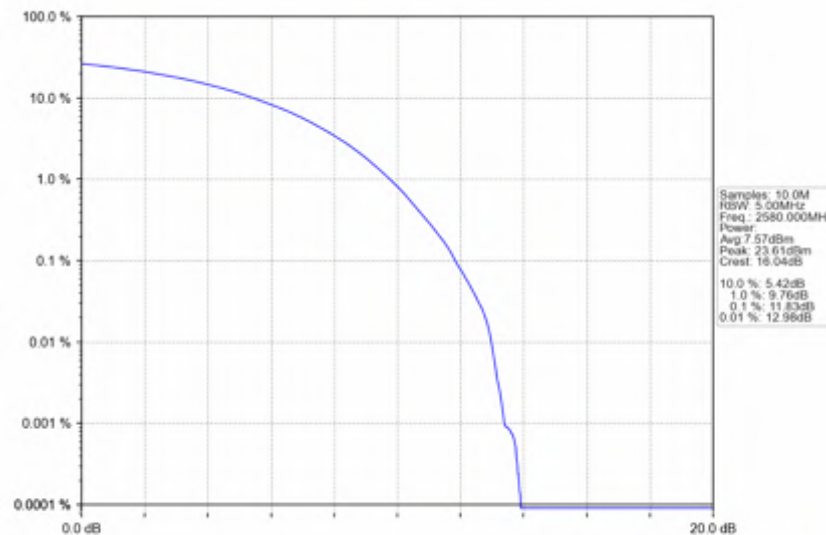
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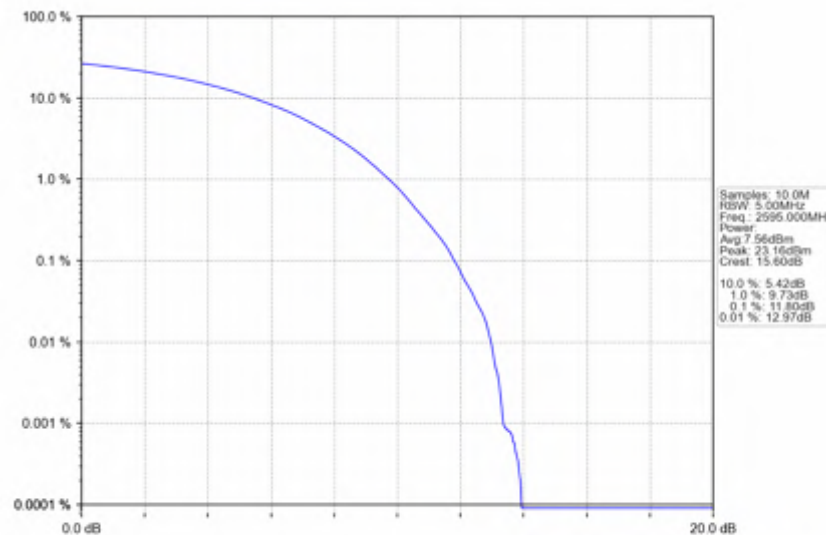
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n38_15kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_2580MHz_Outer_Full



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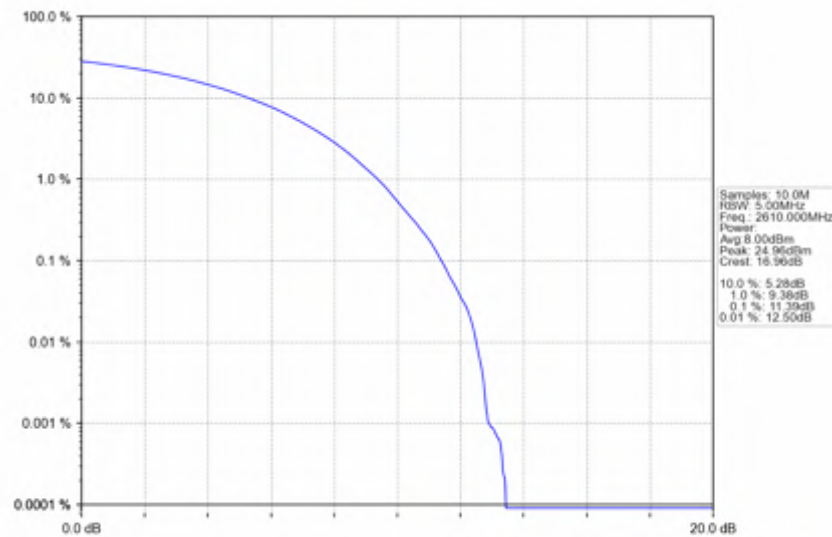
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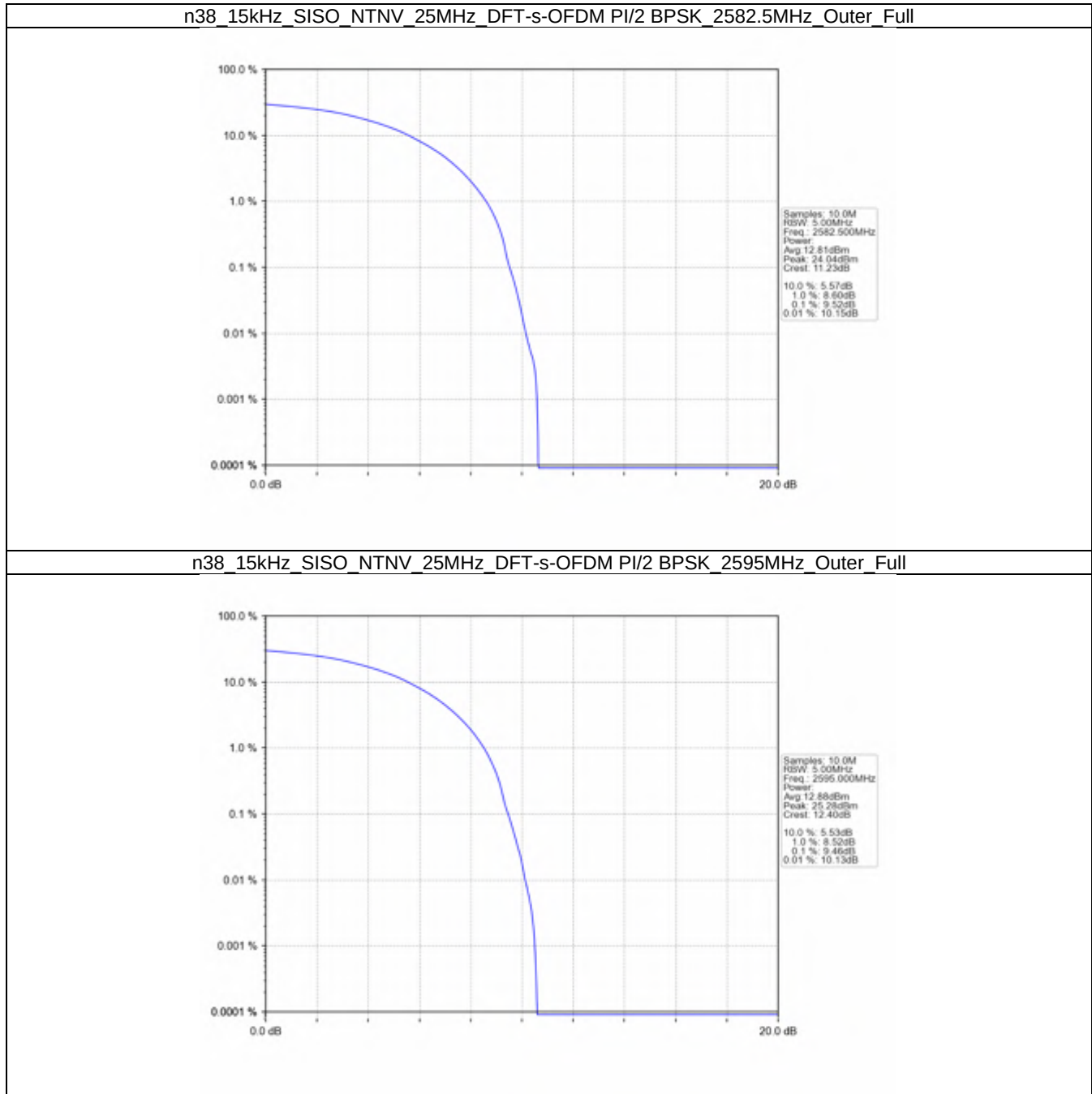
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5.5 15k_SISO_25MHz_NTNV

5.5.1 Test Result

5G NR n38 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	2582.5	Outer_Full	9.52	/	/	<=13	Pass
	2595	Outer_Full	9.46	/	/	<=13	Pass
	2607.5	Outer_Full	9.43	/	/	<=13	Pass
DFT-s-OFDM QPSK	2582.5	Outer_Full	10.55	/	/	<=13	Pass
	2595	Outer_Full	10.56	/	/	<=13	Pass
	2607.5	Outer_Full	10.36	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2582.5	Outer_Full	11.04	/	/	<=13	Pass
	2595	Outer_Full	11.02	/	/	<=13	Pass
	2607.5	Outer_Full	11.06	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2582.5	Outer_Full	11.17	/	/	<=13	Pass
	2595	Outer_Full	10.70	/	/	<=13	Pass
	2607.5	Outer_Full	11.09	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2582.5	Outer_Full	11.15	/	/	<=13	Pass
	2595	Outer_Full	10.97	/	/	<=13	Pass
	2607.5	Outer_Full	11.27	/	/	<=13	Pass
CP-OFDM QPSK	2582.5	Outer_Full	11.76	/	/	<=13	Pass
	2595	Outer_Full	11.82	/	/	<=13	Pass
	2607.5	Outer_Full	11.95	/	/	<=13	Pass
CP-OFDM 16 QAM	2582.5	Outer_Full	11.71	/	/	<=13	Pass
	2595	Outer_Full	11.66	/	/	<=13	Pass
	2607.5	Outer_Full	11.65	/	/	<=13	Pass
CP-OFDM 64 QAM	2582.5	Outer_Full	11.75	/	/	<=13	Pass
	2595	Outer_Full	11.69	/	/	<=13	Pass
	2607.5	Outer_Full	11.65	/	/	<=13	Pass
CP-OFDM 256 QAM	2582.5	Outer_Full	11.82	/	/	<=13	Pass
	2595	Outer_Full	11.82	/	/	<=13	Pass
	2607.5	Outer_Full	11.72	/	/	<=13	Pass

5.5.2 Test Graph



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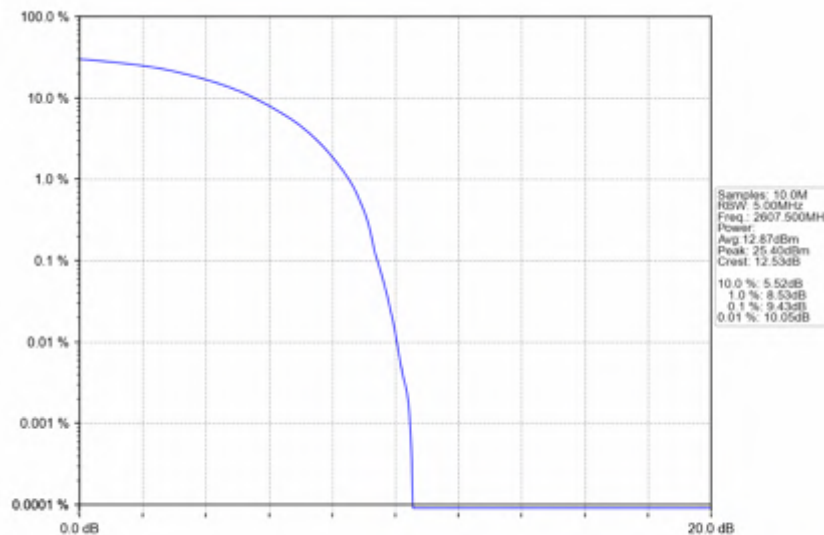
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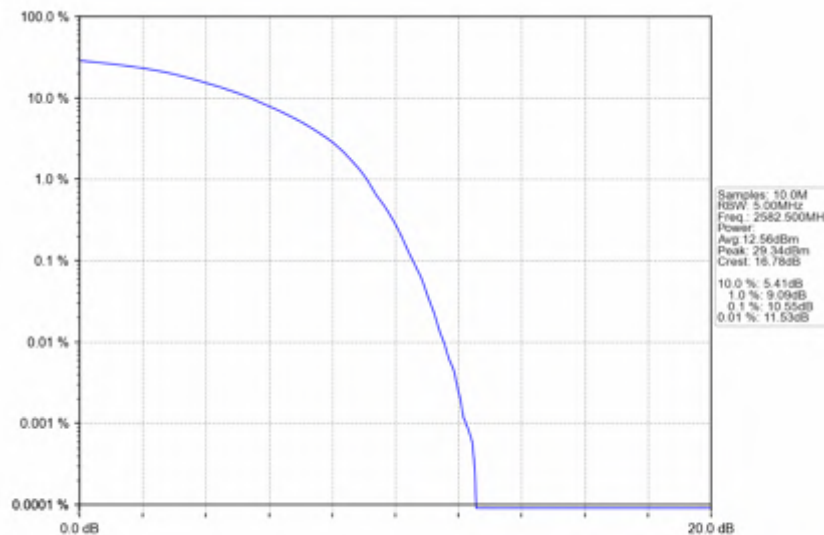
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n38_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_2582.5MHz_Outer_Full



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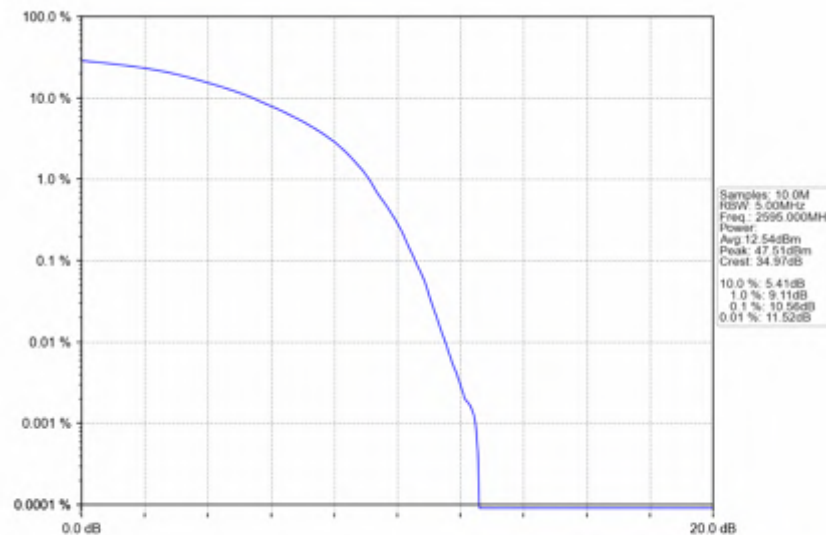
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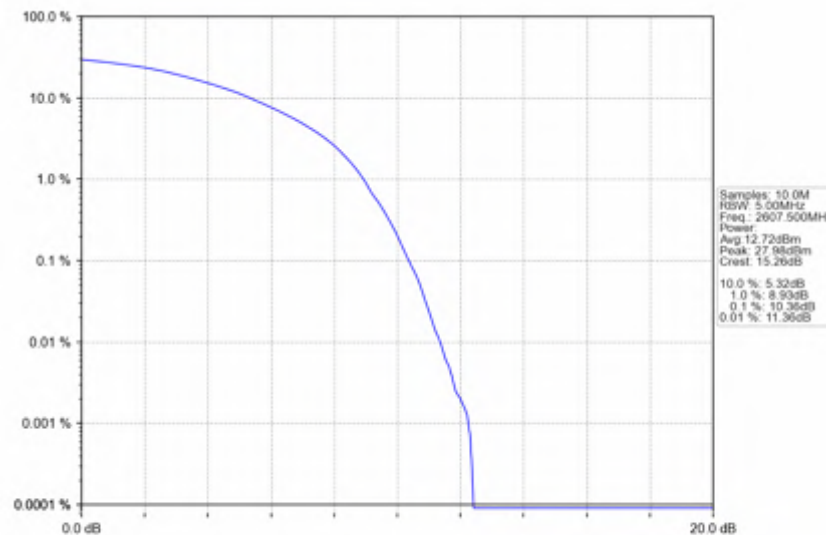
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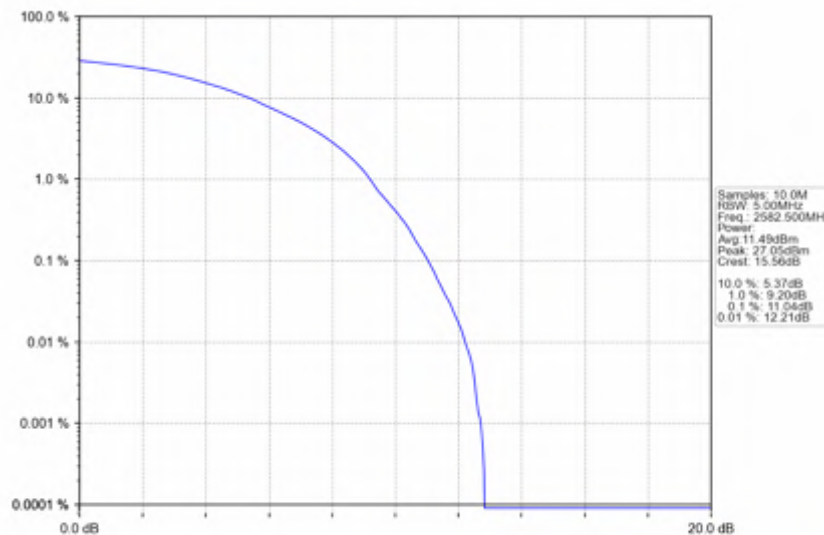


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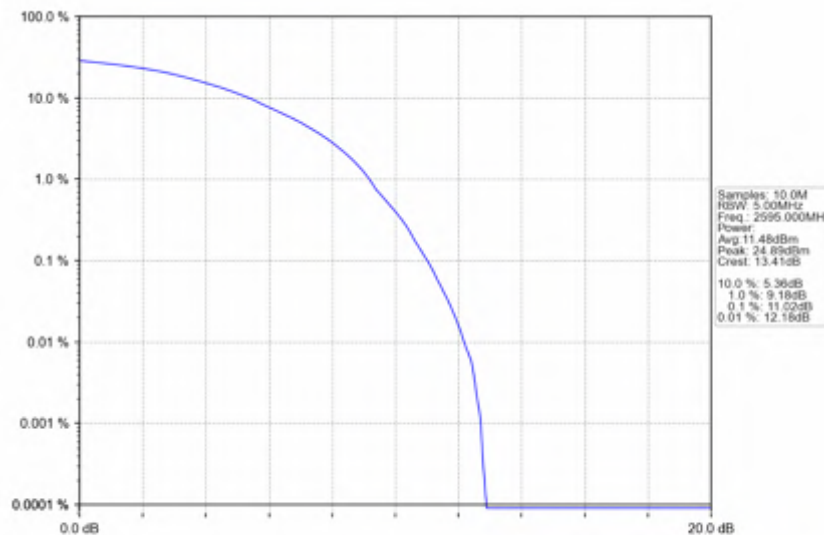
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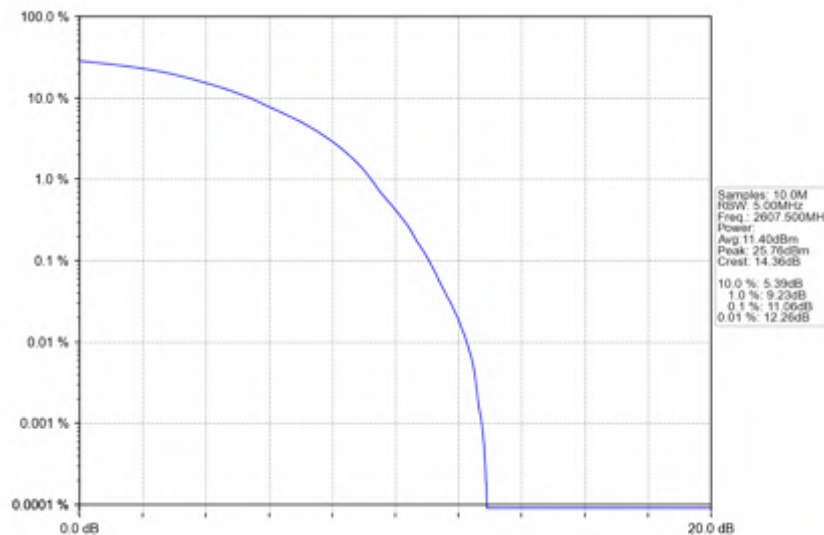


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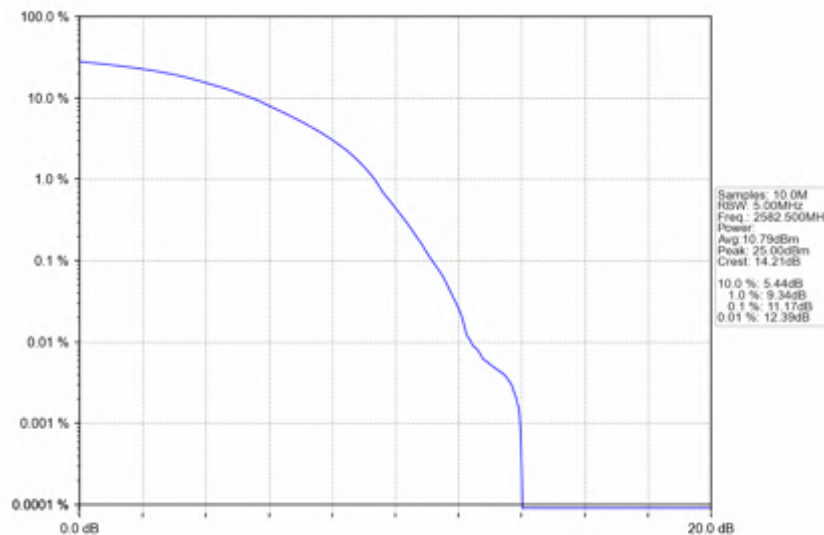
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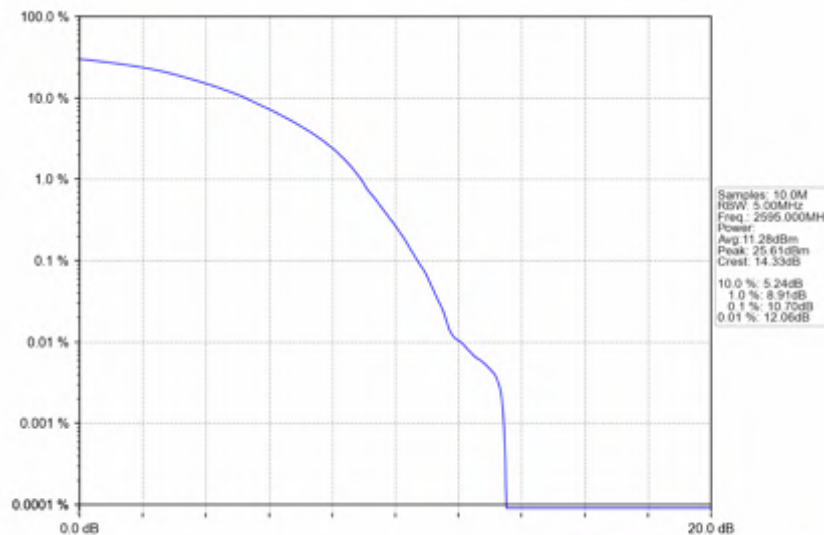


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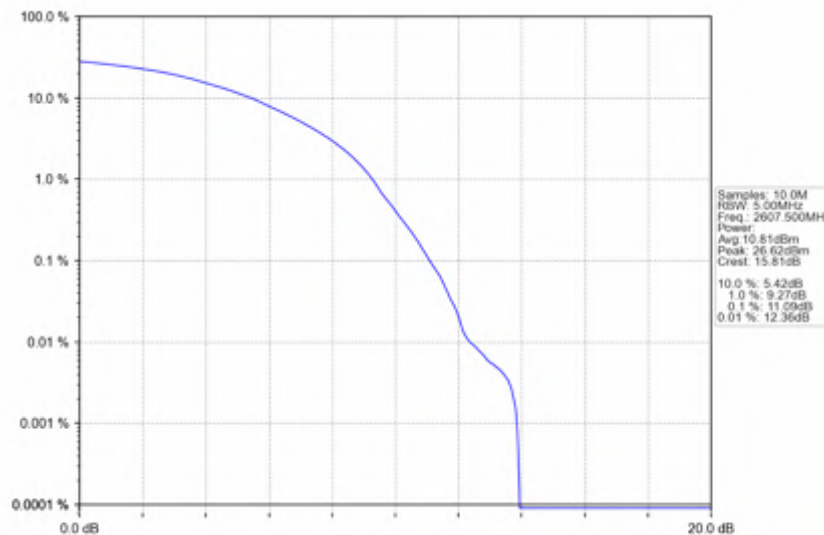
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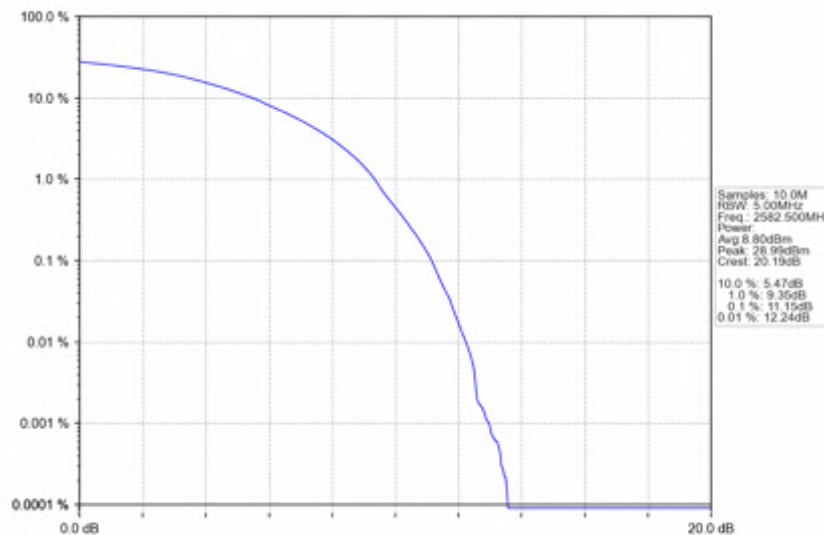


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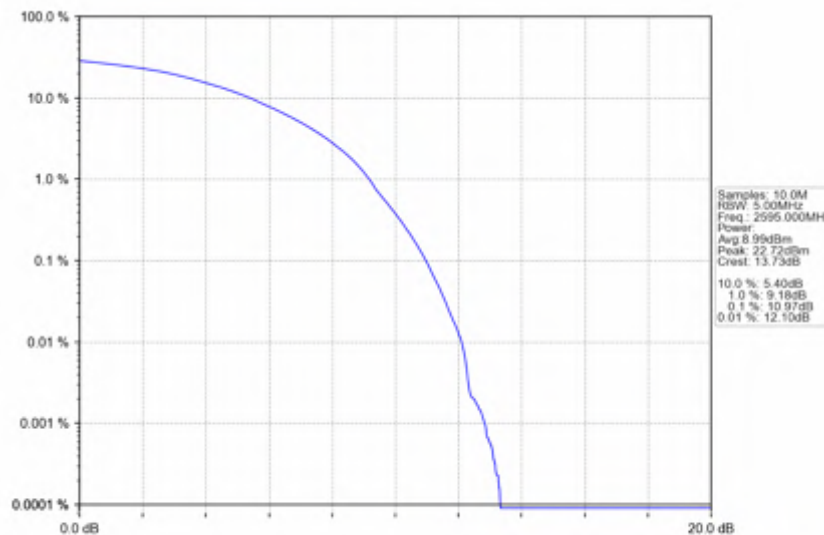
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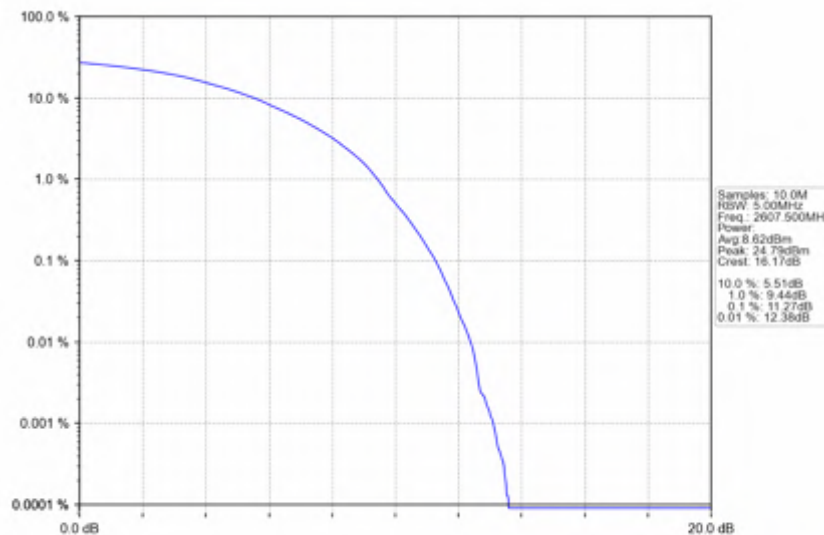
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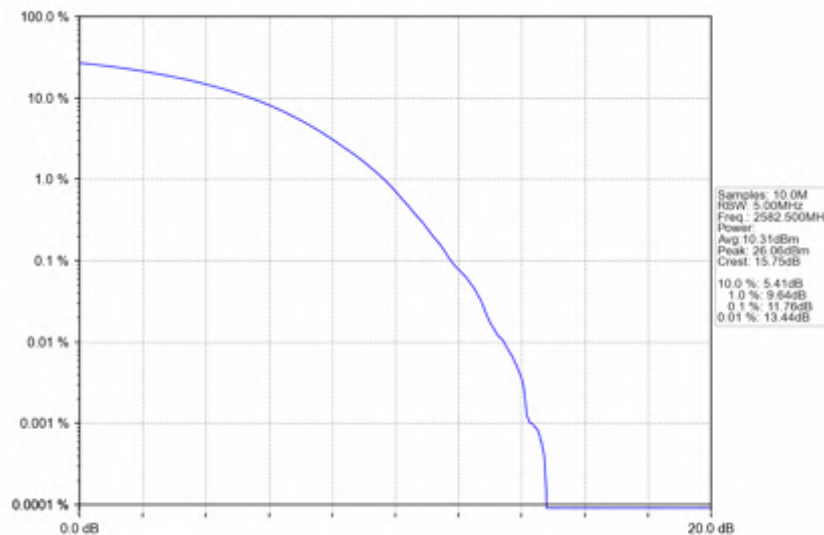
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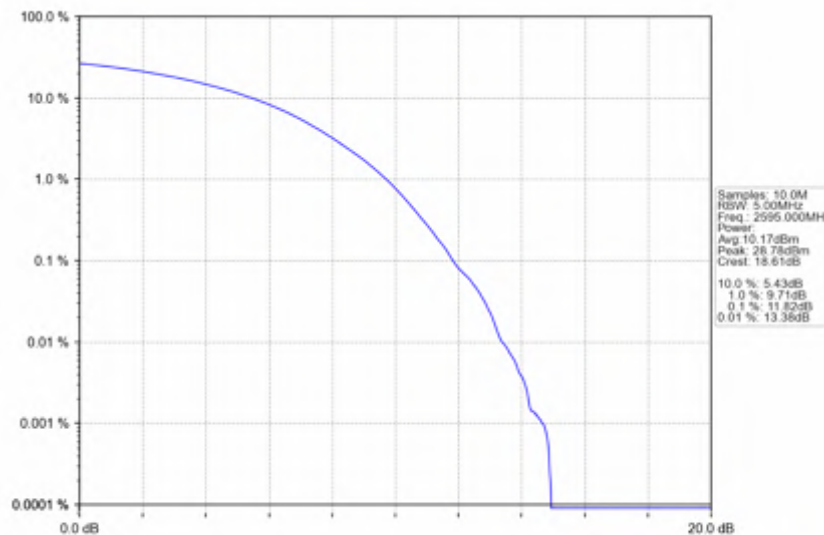
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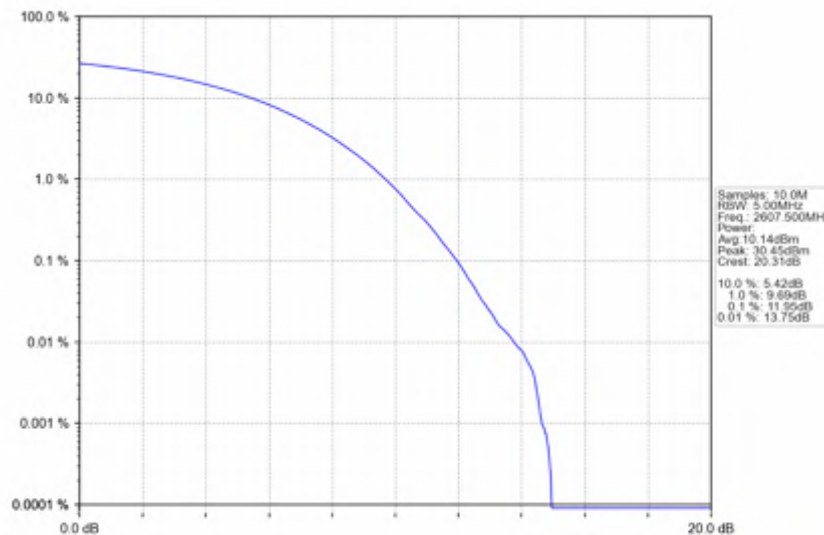
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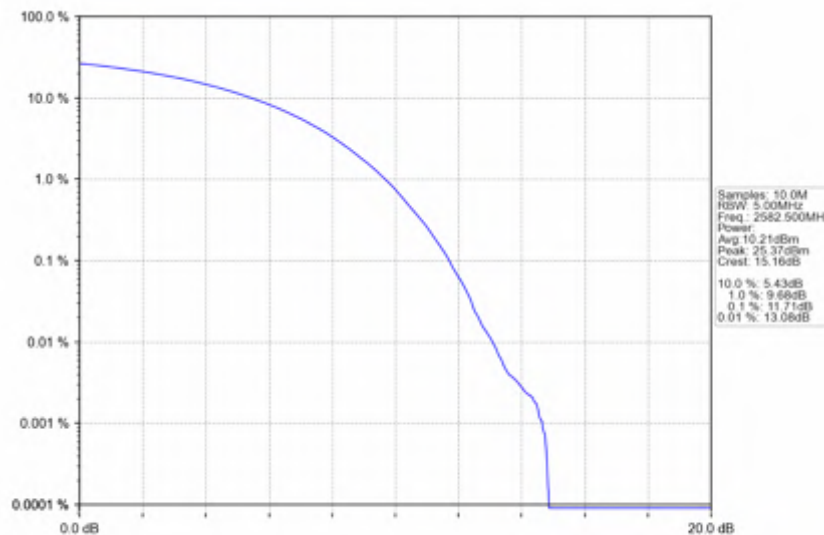
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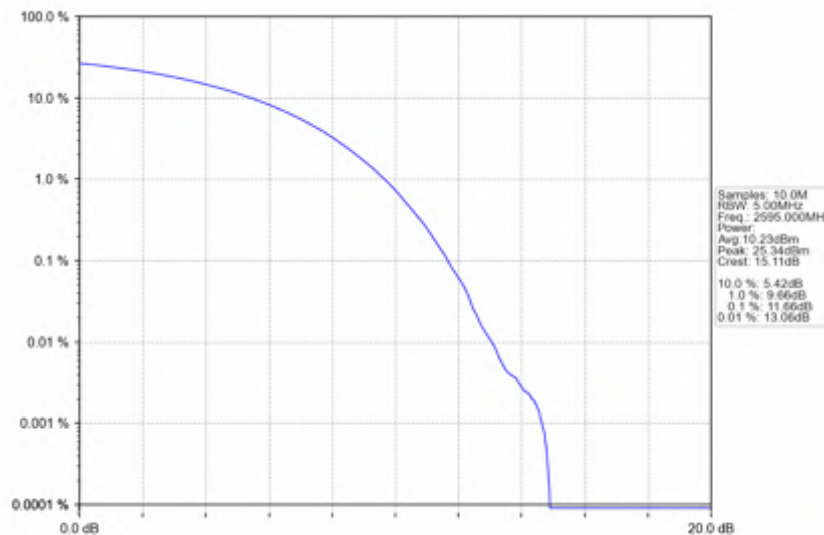
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n38_15kHz_SISO_NTNV_25MHz_CP-OFDM_16_QAM_2582.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_25MHz_CP-OFDM_16_QAM_2595MHz_Outer_Full



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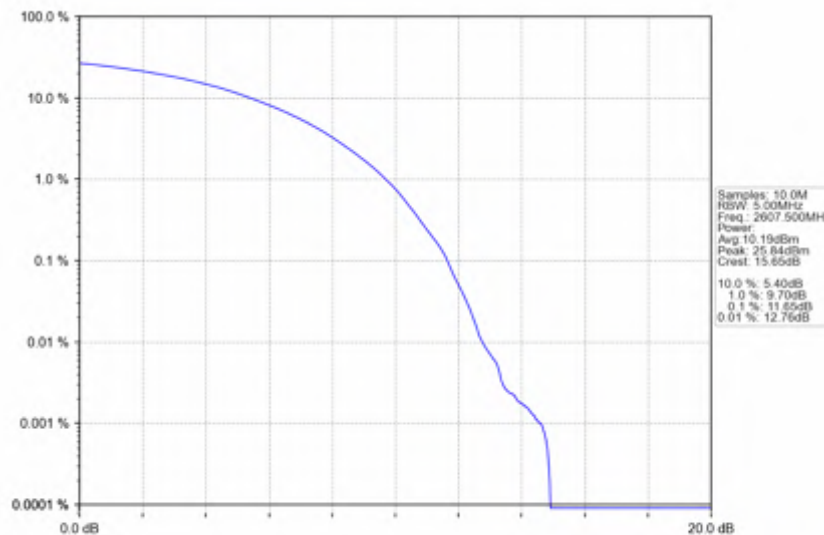
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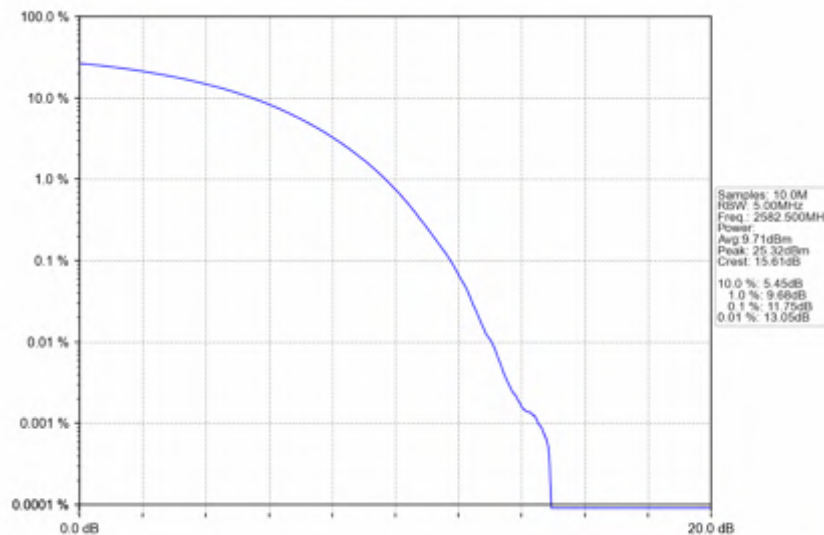
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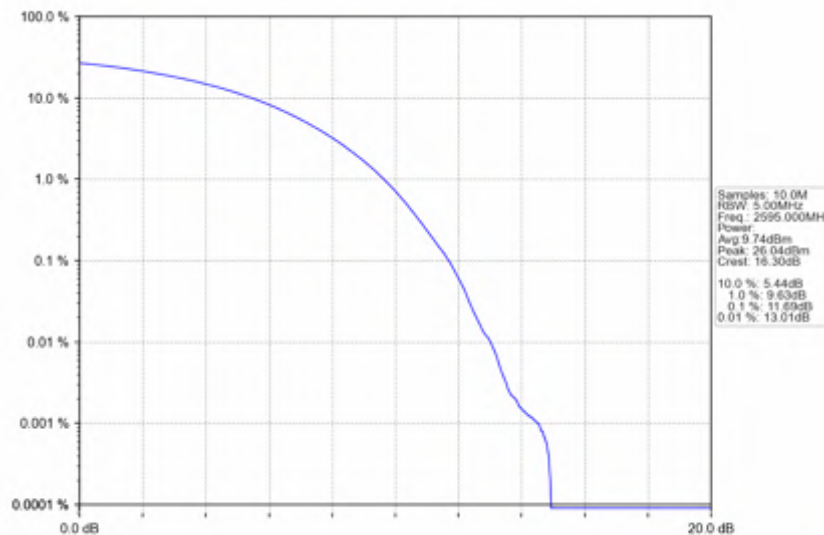
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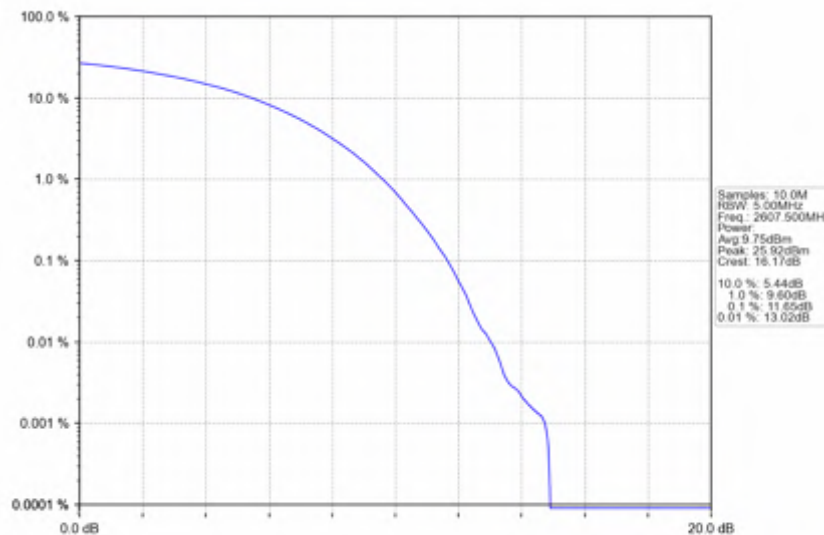
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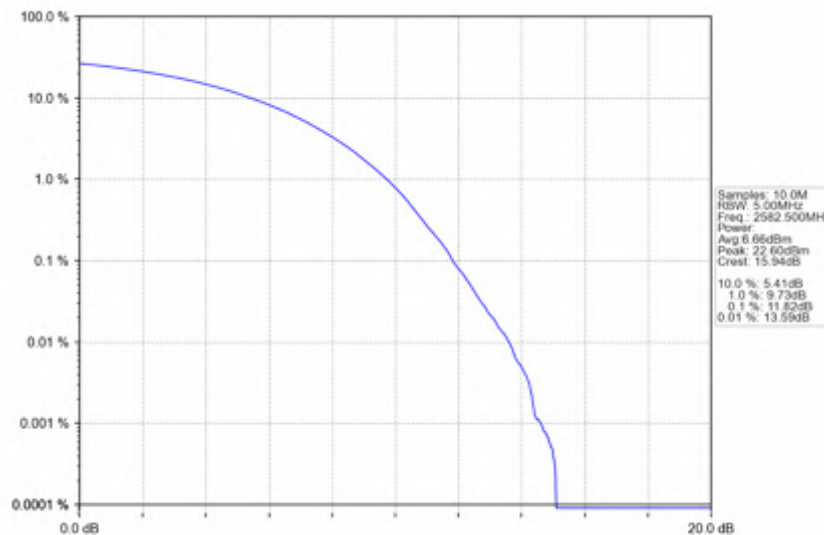
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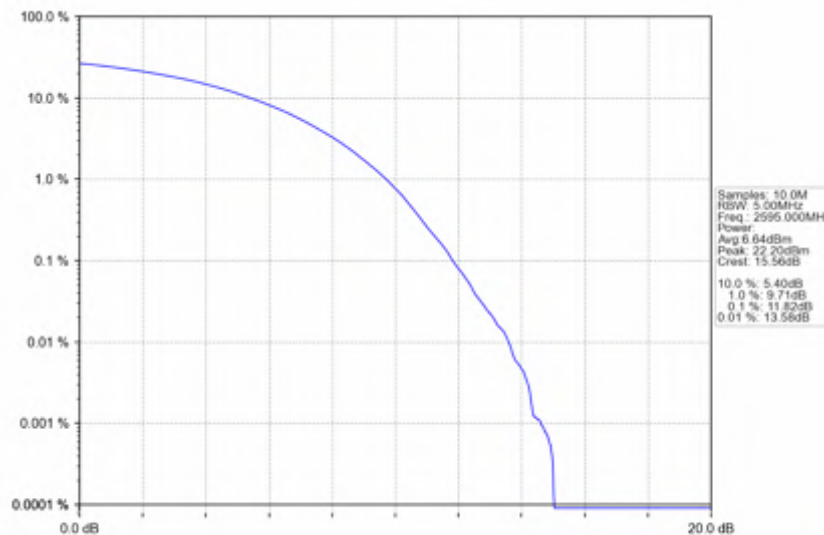
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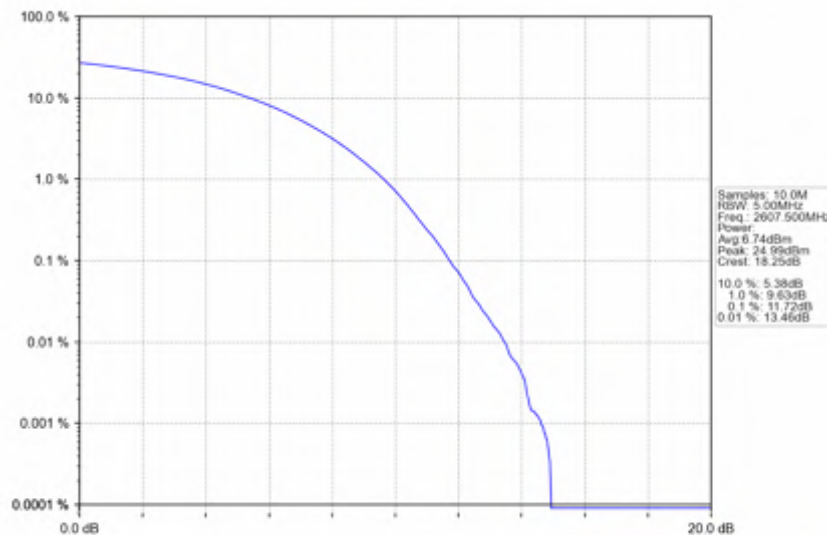
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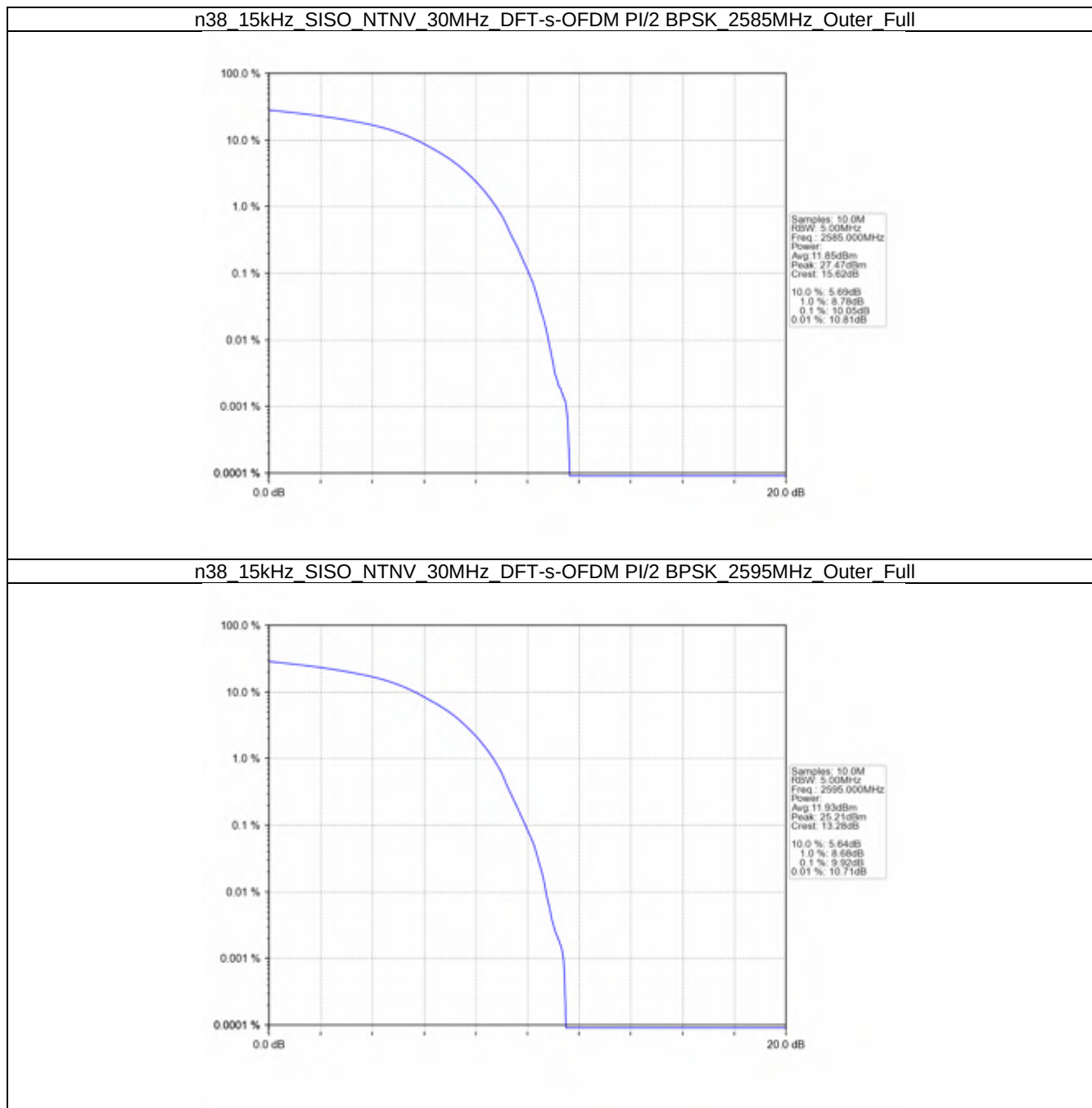
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5.6 15k_SISO_30MHz_NTNV

5.6.1 Test Result

5G NR n38 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	2585	Outer_Full	10.05	/	/	<=13	Pass
	2595	Outer_Full	9.92	/	/	<=13	Pass
	2605	Outer_Full	10.02	/	/	<=13	Pass
DFT-s-OFDM QPSK	2585	Outer_Full	10.58	/	/	<=13	Pass
	2595	Outer_Full	10.66	/	/	<=13	Pass
	2605	Outer_Full	10.60	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2585	Outer_Full	11.14	/	/	<=13	Pass
	2595	Outer_Full	10.88	/	/	<=13	Pass
	2605	Outer_Full	11.07	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2585	Outer_Full	11.00	/	/	<=13	Pass
	2595	Outer_Full	11.24	/	/	<=13	Pass
	2605	Outer_Full	11.03	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2585	Outer_Full	11.31	/	/	<=13	Pass
	2595	Outer_Full	11.16	/	/	<=13	Pass
	2605	Outer_Full	11.16	/	/	<=13	Pass
CP-OFDM QPSK	2585	Outer_Full	11.92	/	/	<=13	Pass
	2595	Outer_Full	11.92	/	/	<=13	Pass
	2605	Outer_Full	11.92	/	/	<=13	Pass
CP-OFDM 16 QAM	2585	Outer_Full	11.90	/	/	<=13	Pass
	2595	Outer_Full	11.96	/	/	<=13	Pass
	2605	Outer_Full	11.99	/	/	<=13	Pass
CP-OFDM 64 QAM	2585	Outer_Full	11.86	/	/	<=13	Pass
	2595	Outer_Full	11.85	/	/	<=13	Pass
	2605	Outer_Full	12.03	/	/	<=13	Pass
CP-OFDM 256 QAM	2585	Outer_Full	11.83	/	/	<=13	Pass
	2595	Outer_Full	11.81	/	/	<=13	Pass
	2605	Outer_Full	11.88	/	/	<=13	Pass

5.6.2 Test Graph



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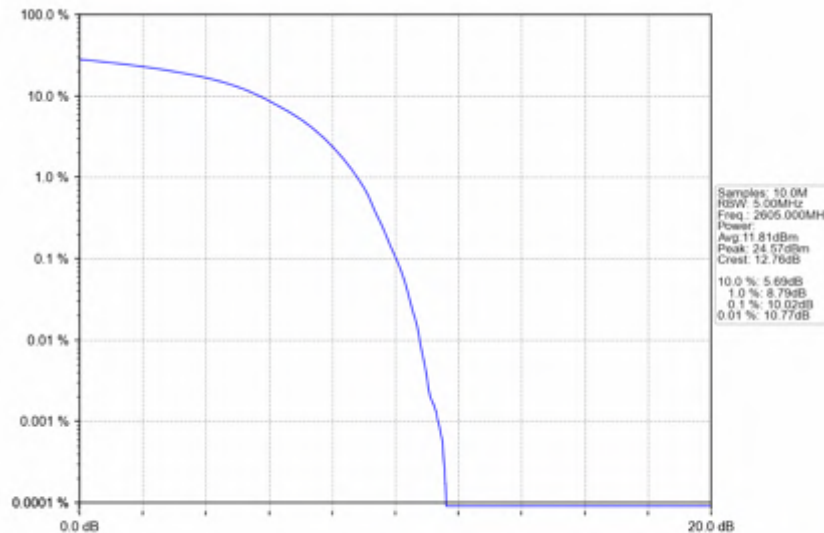
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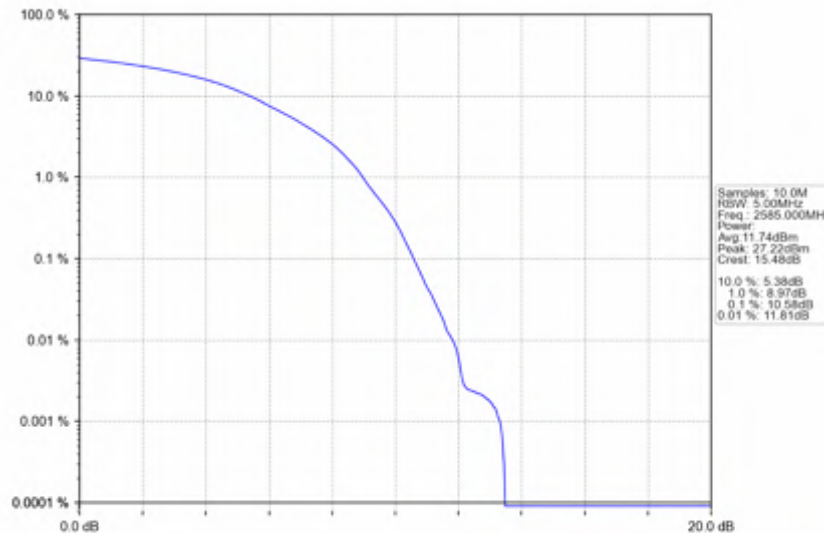
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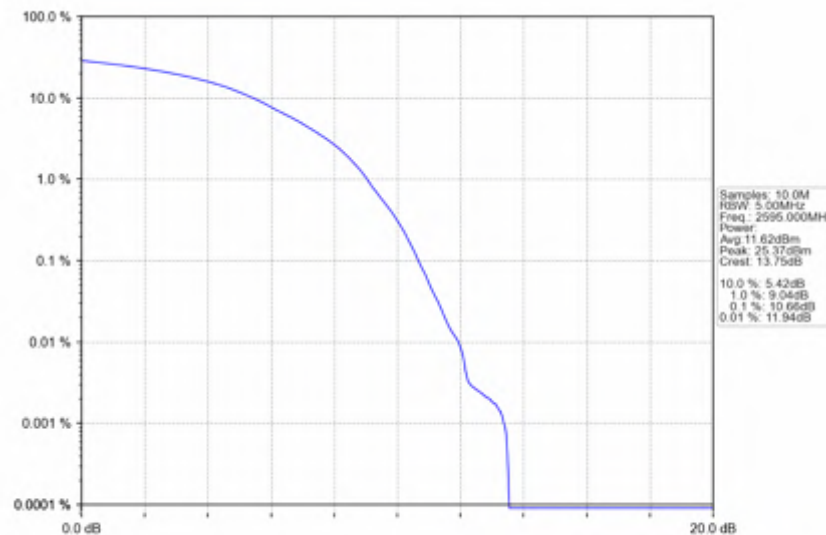


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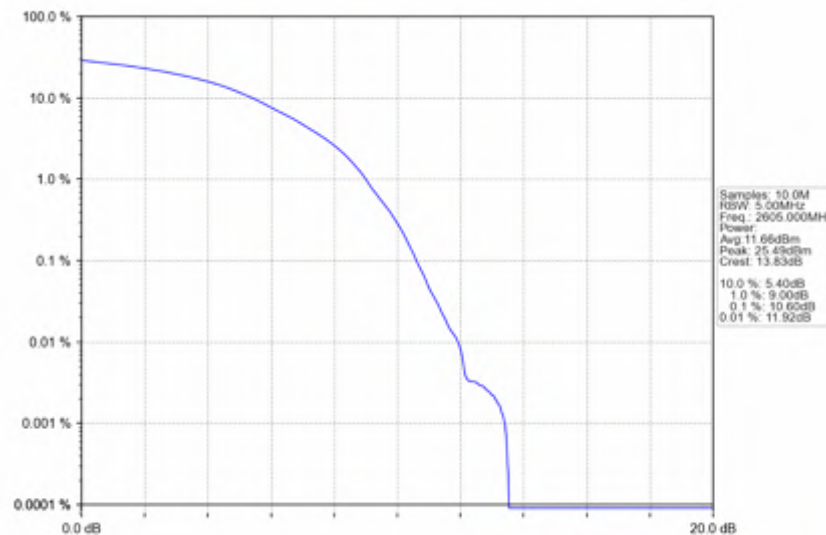
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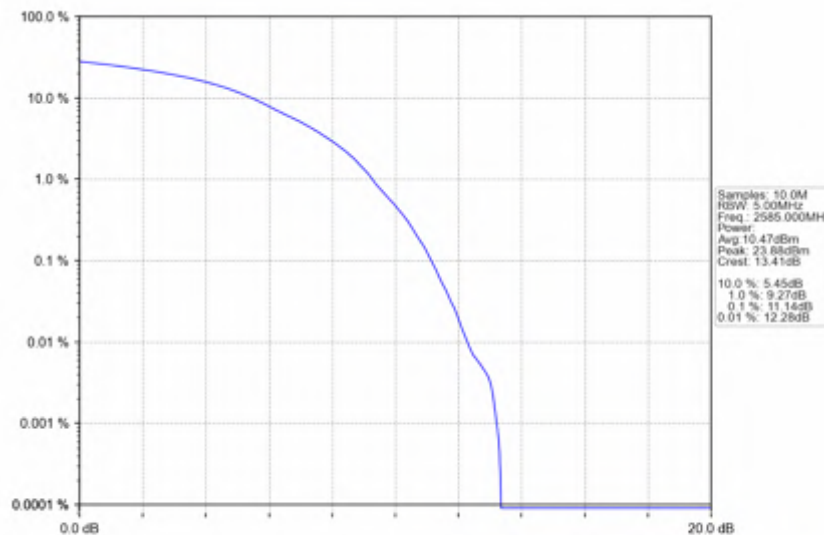


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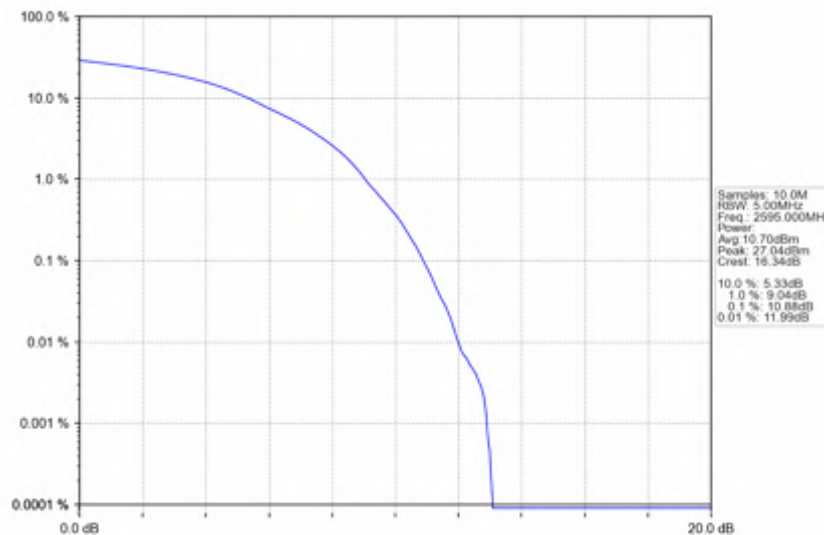
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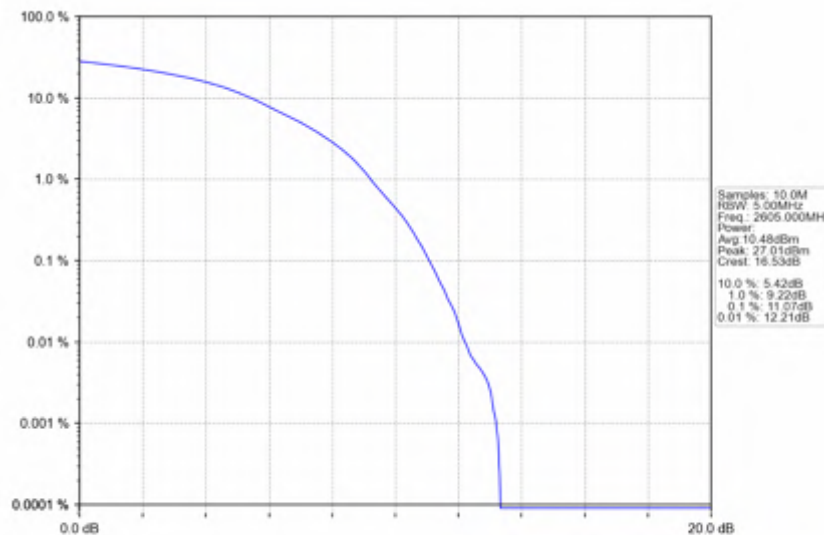
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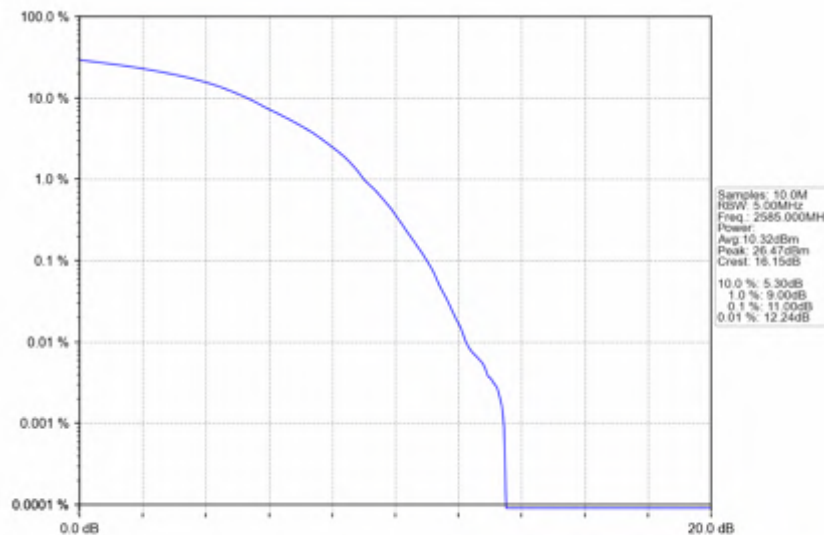
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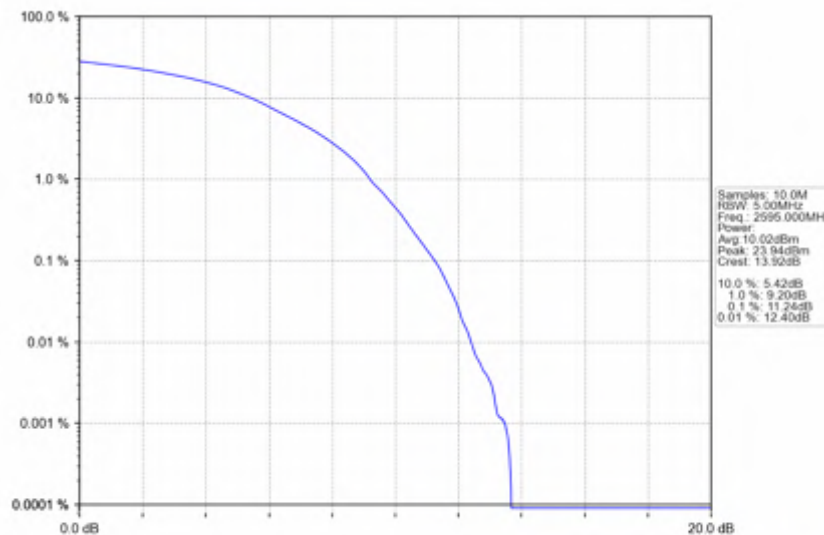
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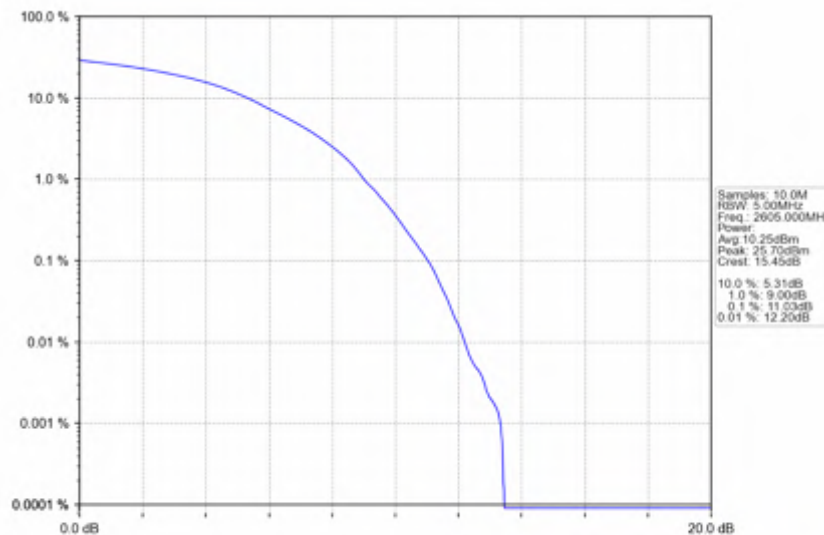
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n38_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_2595MHz_Outer_Full



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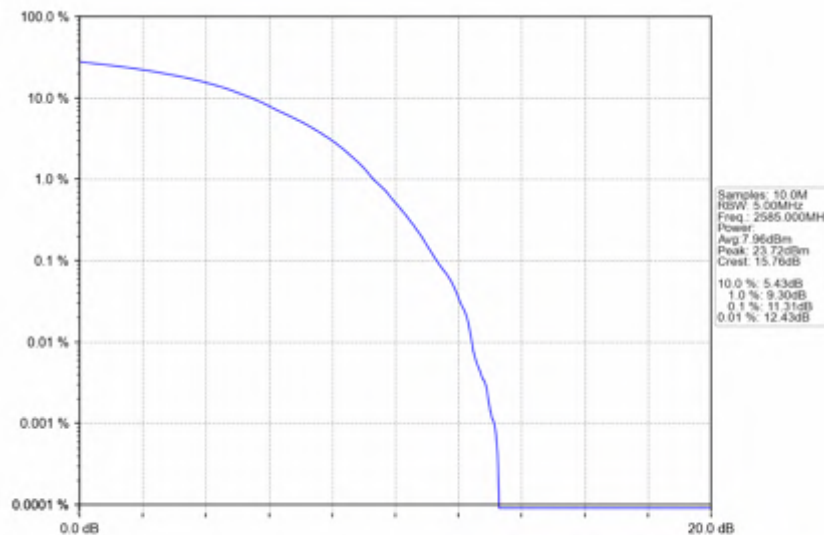
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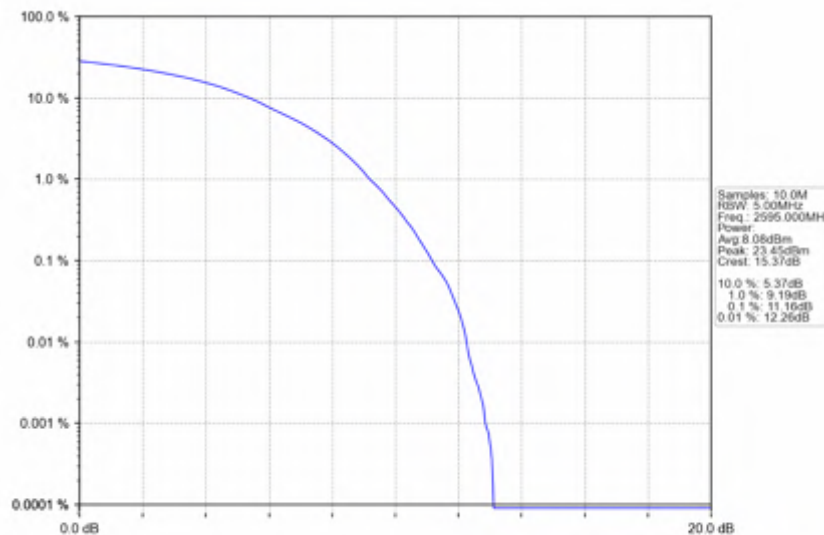
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n38_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_2585MHz_Outer_Full



n38_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_2595MHz_Outer_Full



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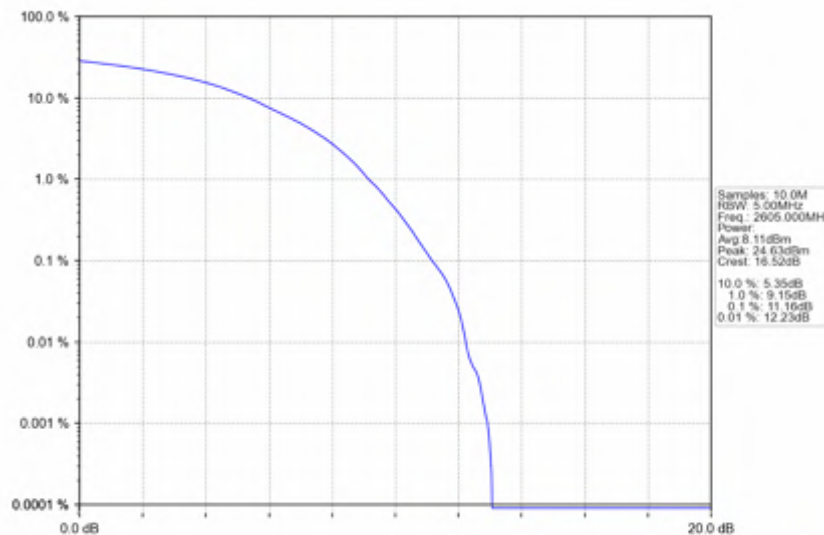
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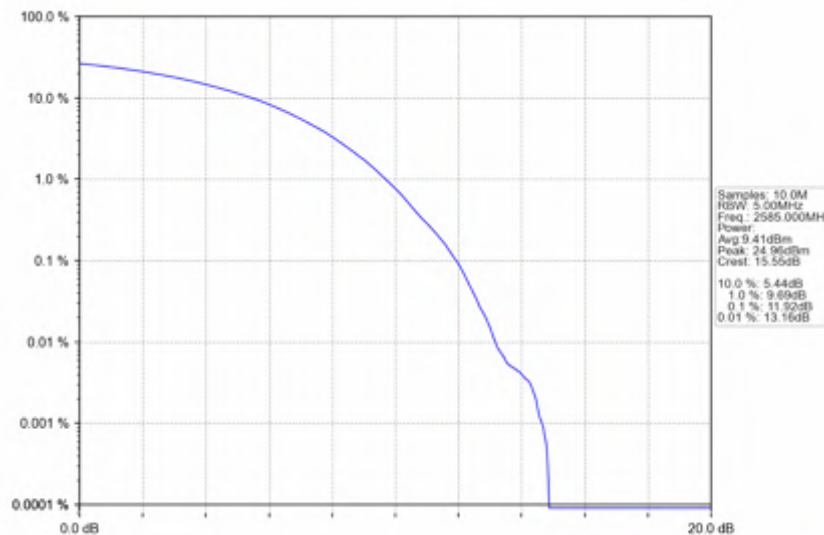
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086-51257350888 086-51257370011 sgs.china@sgs.com

n38_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM 256 QAM_2605MHz_Outer_Full



n38_15kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_2585MHz_Outer_Full



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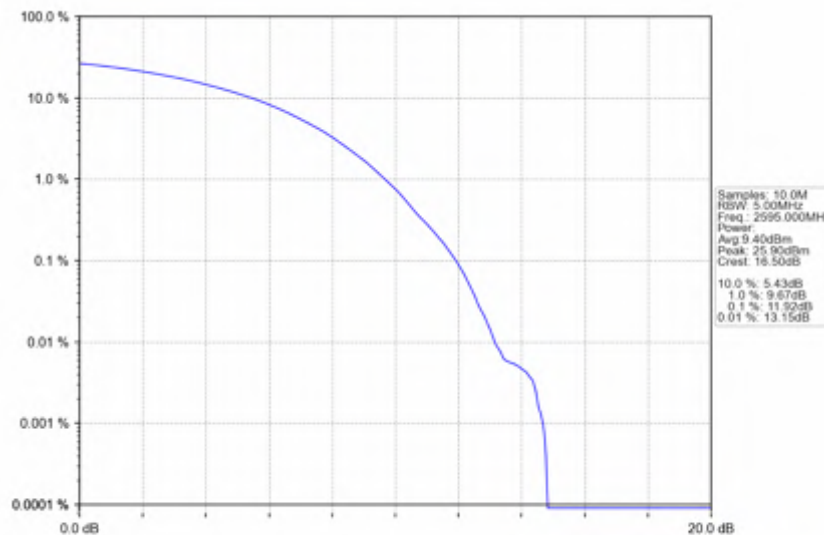
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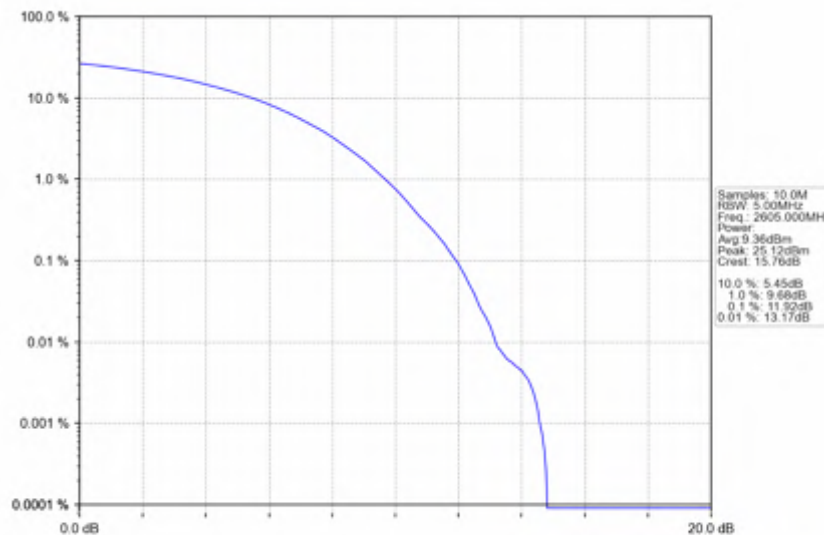
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n38_15kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_2595MHz_Outer_Full



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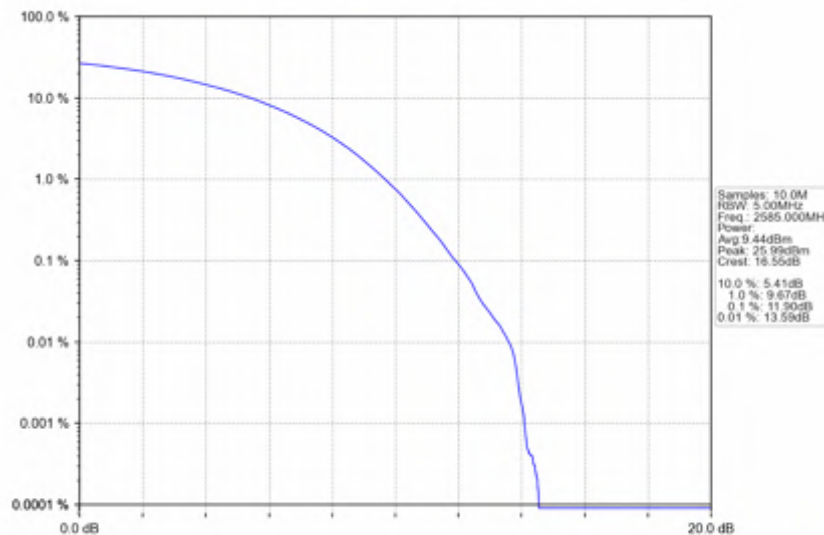
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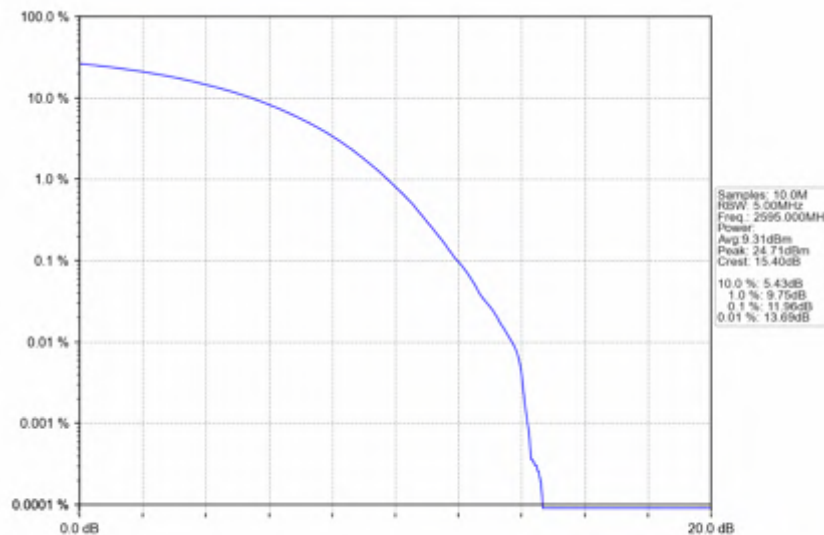
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n38_15kHz_SISO_NTNV_30MHz_CP-OFDM_16_QAM_2585MHz_Outer_Full



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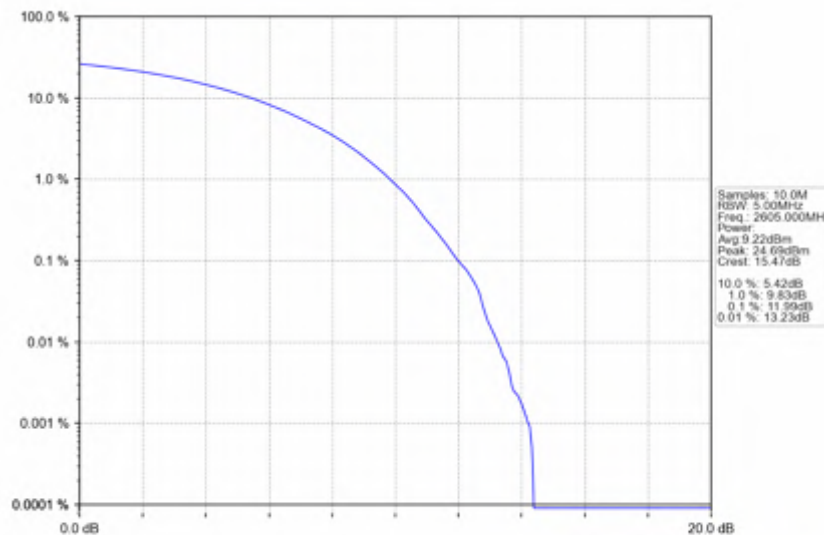
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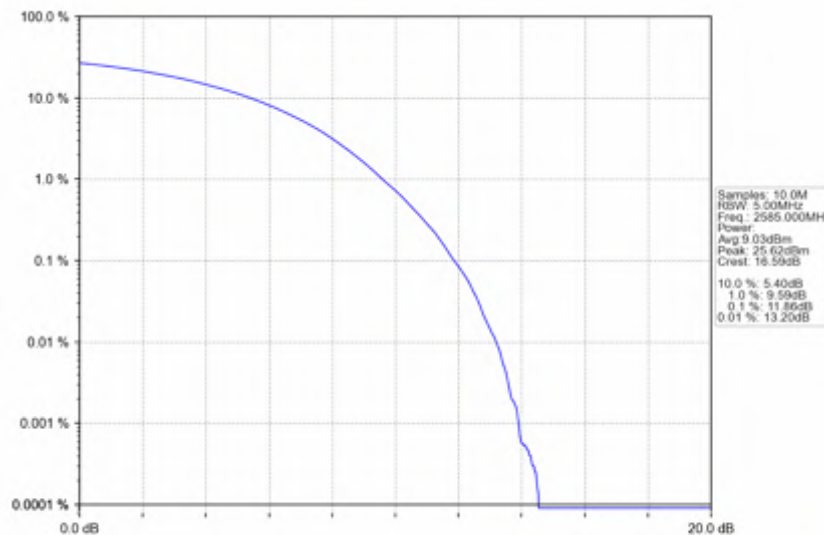
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n38_15kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_2605MHz_Outer_Full



n38_15kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_2585MHz_Outer_Full



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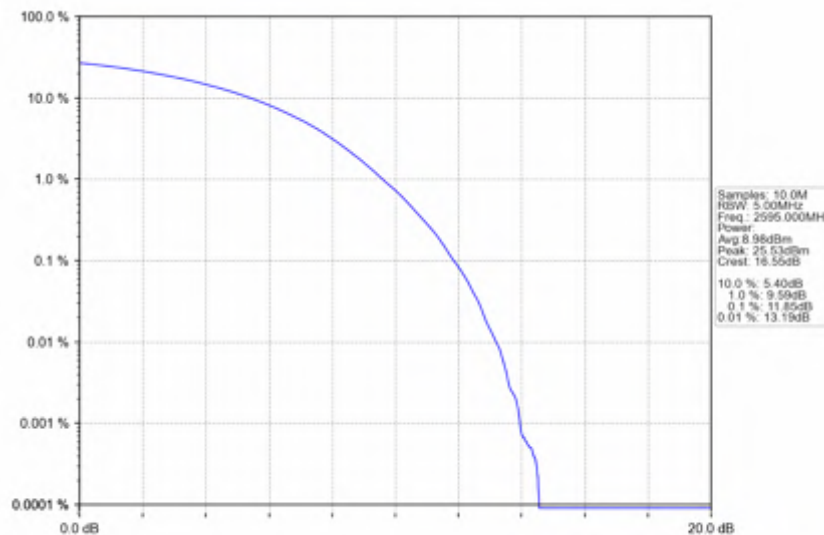
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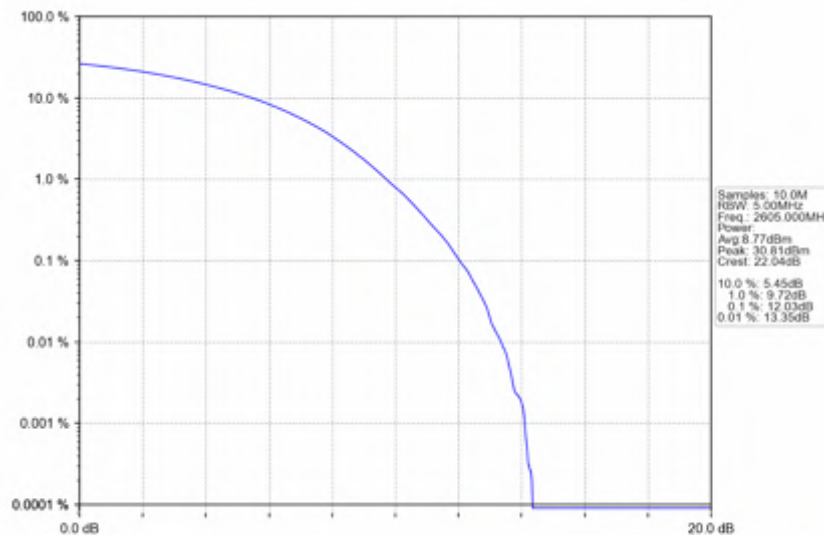
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n38_15kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_2595MHz_Outer_Full



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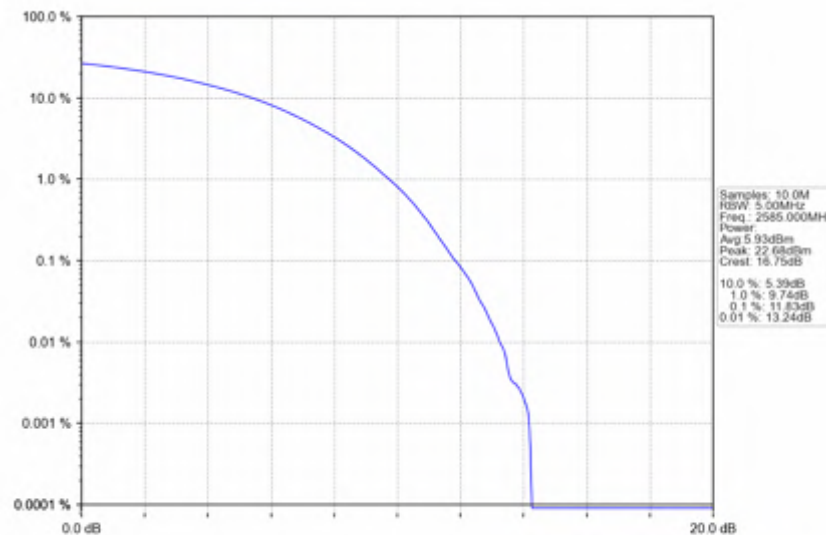


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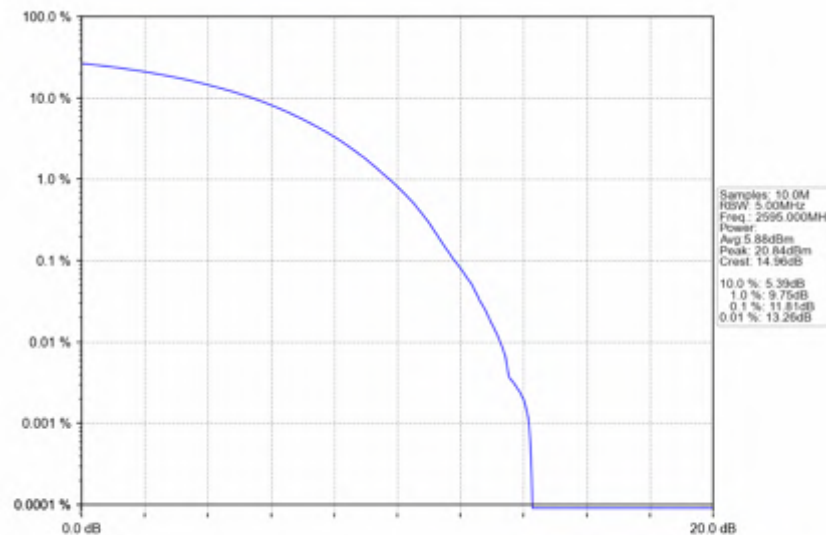
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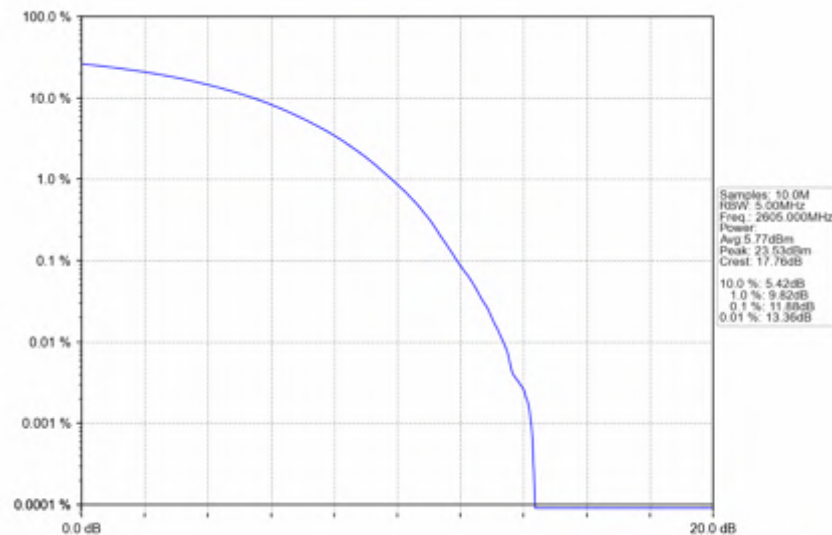
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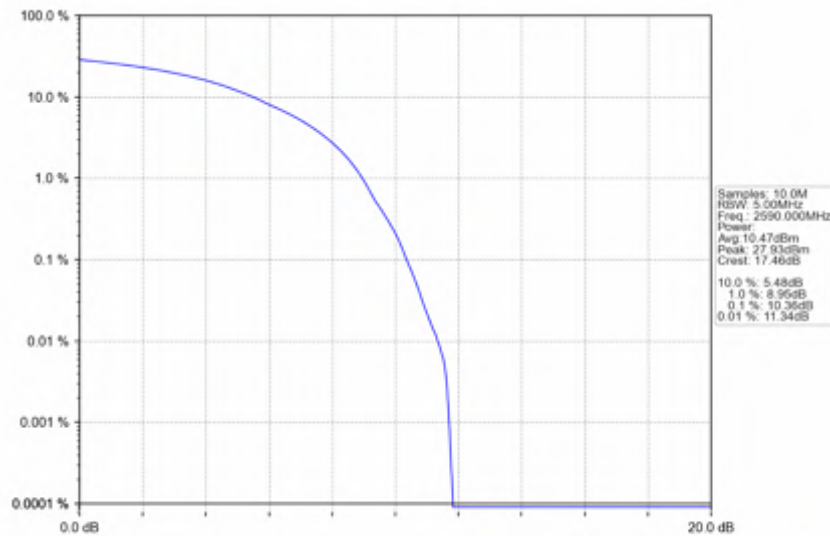
5.7 15k_SISO_40MHz_NTNV

5.7.1 Test Result

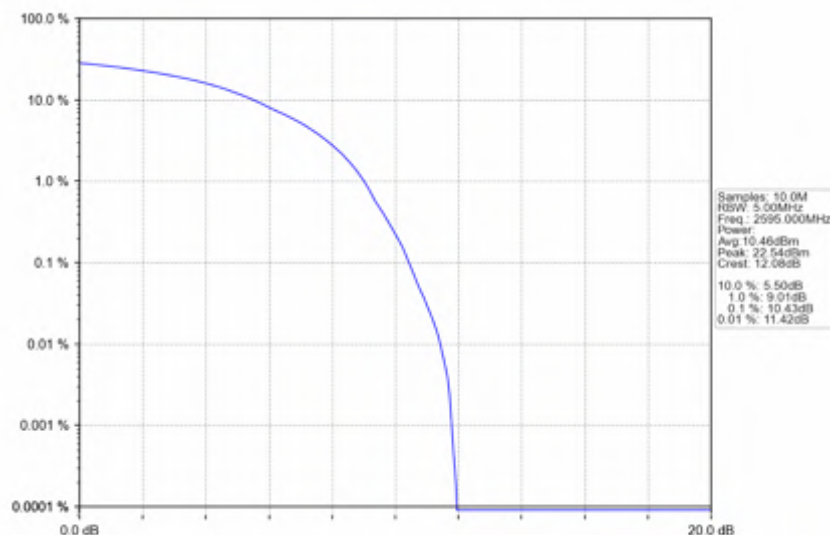
5G NR n38 SCS=15kHz SISO 40MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dBm)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2590	Outer_Full	10.36	/	/	<=13	Pass
	2595	Outer_Full	10.43	/	/	<=13	Pass
	2600	Outer_Full	10.40	/	/	<=13	Pass
DFT-s-OFDM QPSK	2590	Outer_Full	10.73	/	/	<=13	Pass
	2595	Outer_Full	10.92	/	/	<=13	Pass
	2600	Outer_Full	11.08	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2590	Outer_Full	11.16	/	/	<=13	Pass
	2595	Outer_Full	11.36	/	/	<=13	Pass
	2600	Outer_Full	11.37	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2590	Outer_Full	11.13	/	/	<=13	Pass
	2595	Outer_Full	11.56	/	/	<=13	Pass
	2600	Outer_Full	11.66	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2590	Outer_Full	11.22	/	/	<=13	Pass
	2595	Outer_Full	11.40	/	/	<=13	Pass
	2600	Outer_Full	11.18	/	/	<=13	Pass
CP-OFDM QPSK	2590	Outer_Full	11.83	/	/	<=13	Pass
	2595	Outer_Full	11.99	/	/	<=13	Pass
	2600	Outer_Full	11.95	/	/	<=13	Pass
CP-OFDM 16 QAM	2590	Outer_Full	11.50	/	/	<=13	Pass
	2595	Outer_Full	11.76	/	/	<=13	Pass
	2600	Outer_Full	11.40	/	/	<=13	Pass
CP-OFDM 64 QAM	2590	Outer_Full	12.21	/	/	<=13	Pass
	2595	Outer_Full	12.16	/	/	<=13	Pass
	2600	Outer_Full	12.06	/	/	<=13	Pass
CP-OFDM 256 QAM	2590	Outer_Full	12.04	/	/	<=13	Pass
	2595	Outer_Full	11.88	/	/	<=13	Pass
	2600	Outer_Full	12.05	/	/	<=13	Pass

5.7.2 Test Graph

n38	15kHz	SISO	NTNV	40MHz	DFT-s-OFDM	PI/2 BPSK	2590MHz	Outer	Full
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n38 15kHz SISO NTV 40MHz DFT-s-OFDM PI/2 BPSK 2595MHz Outer Full

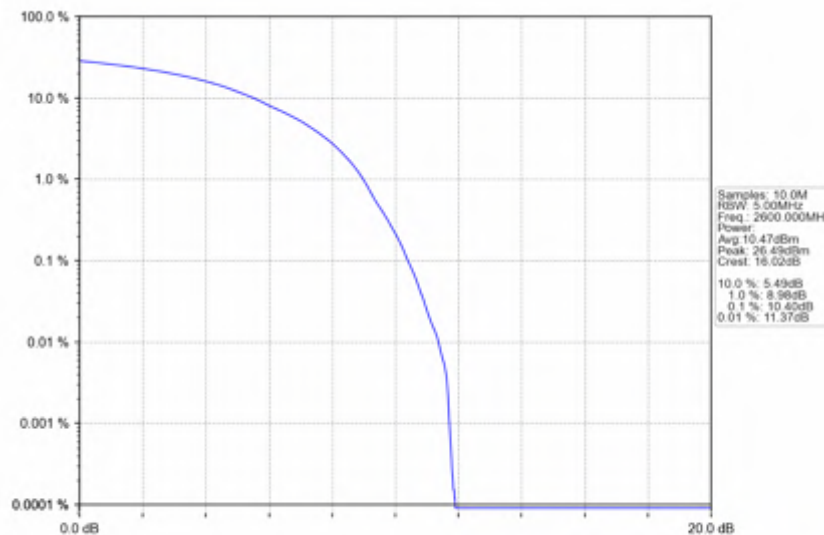


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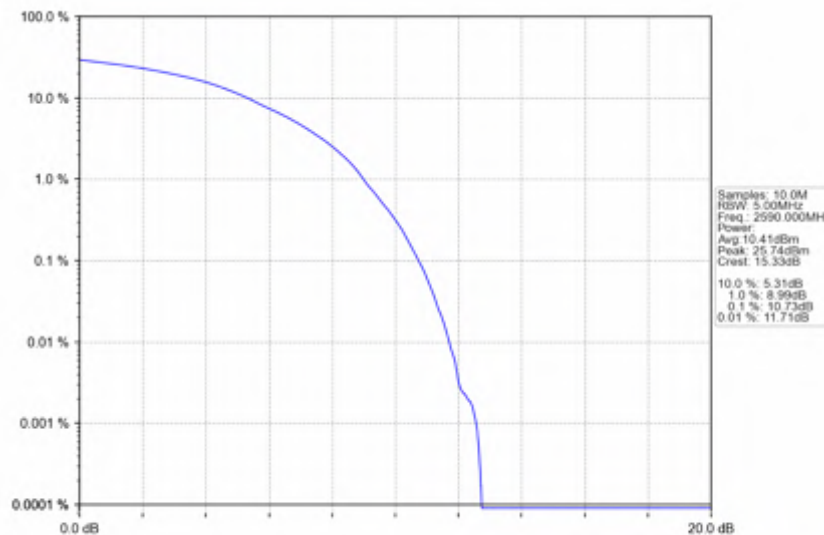
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n38_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_2590MHz_Outer_Full



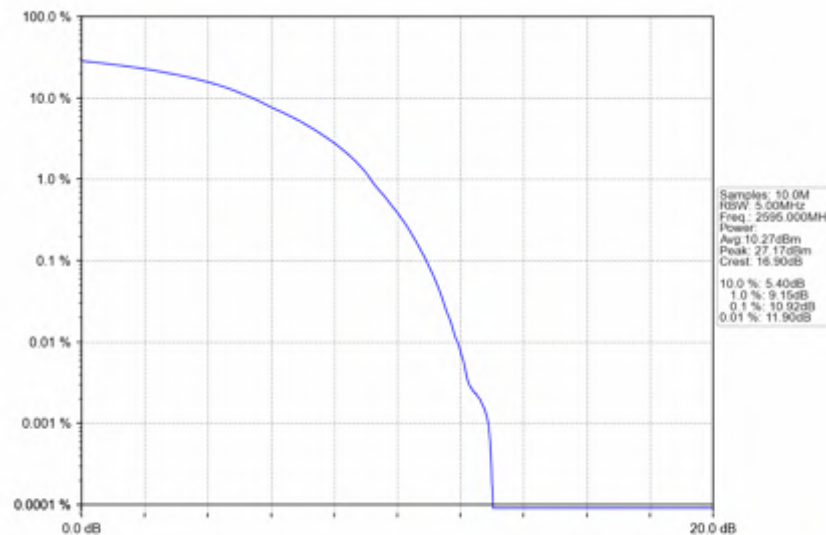
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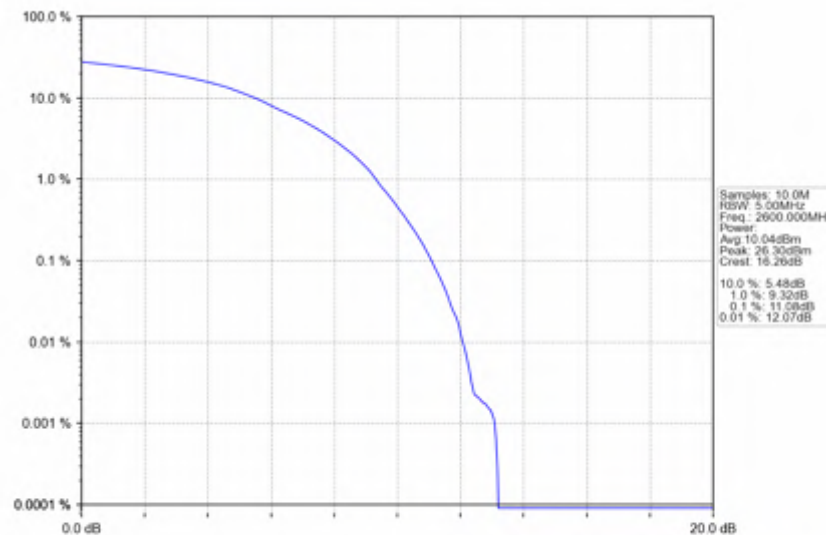
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n38_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_2600MHz_Outer_Full

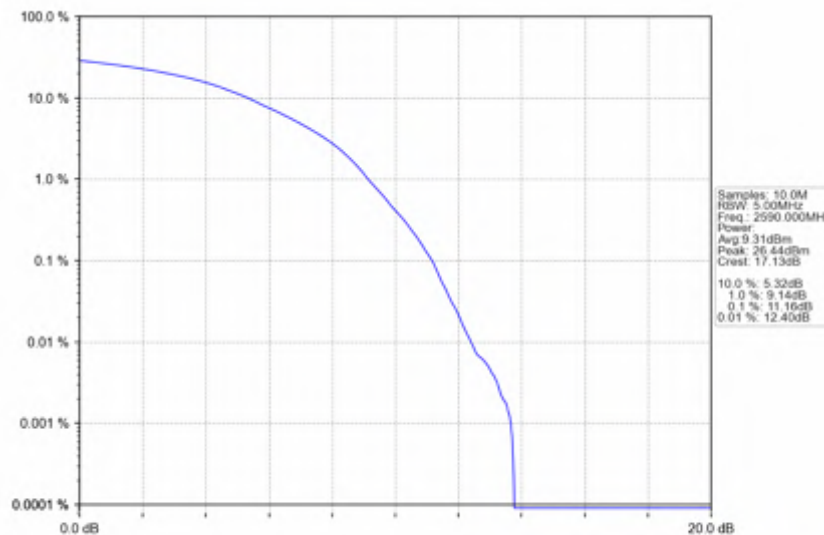


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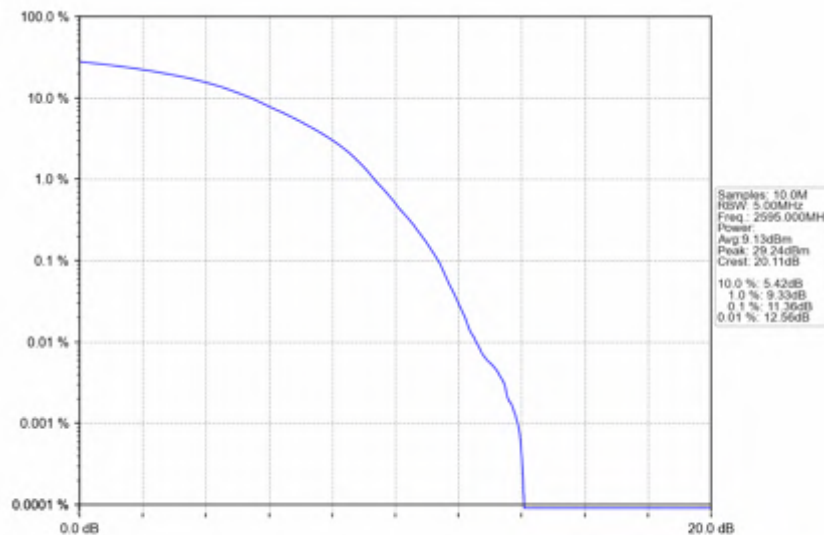
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n38_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_2590MHz_Outer_Full



n38_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_2595MHz_Outer_Full

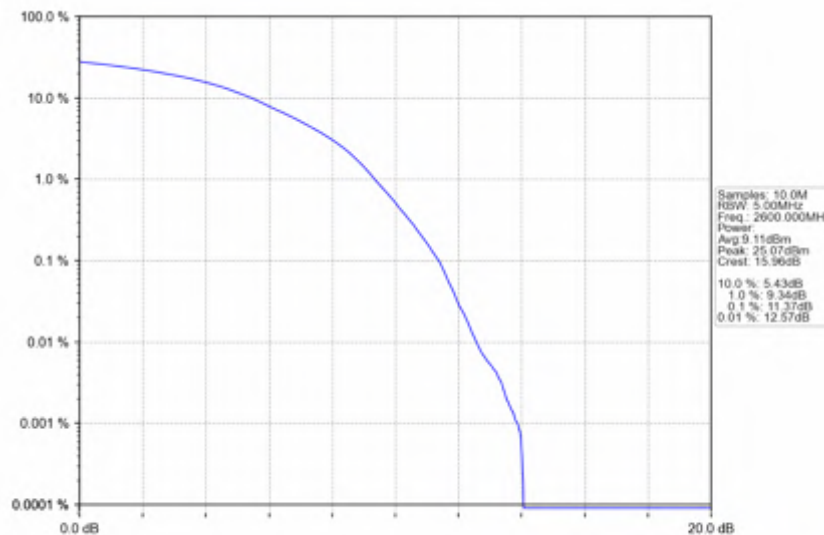


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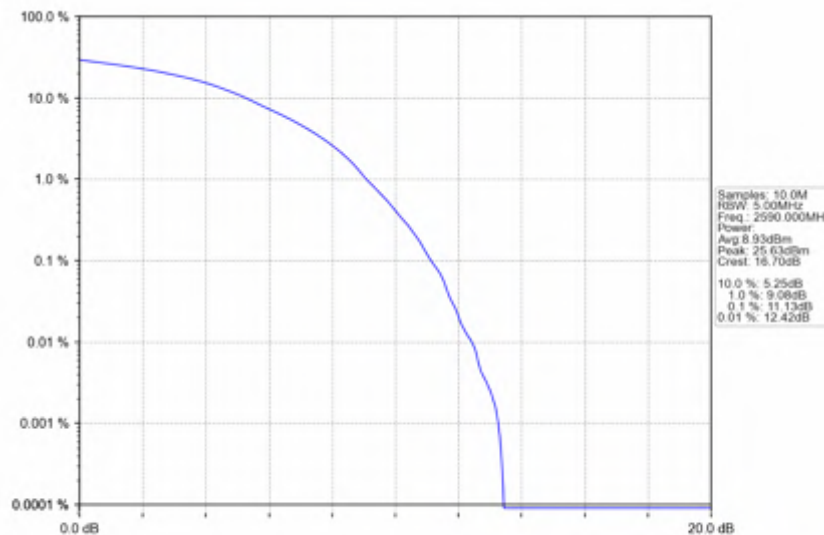
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n38_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_2600MHz_Outer_Full



n38_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_64_QAM_2590MHz_Outer_Full



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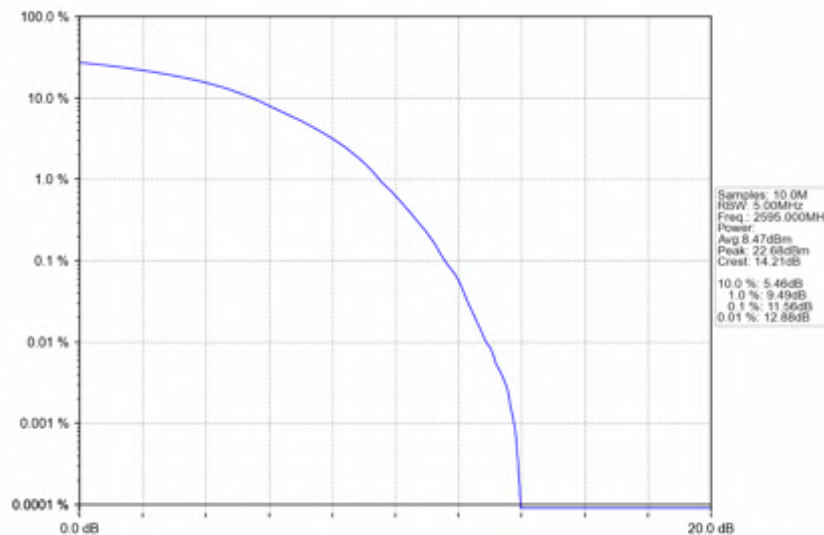
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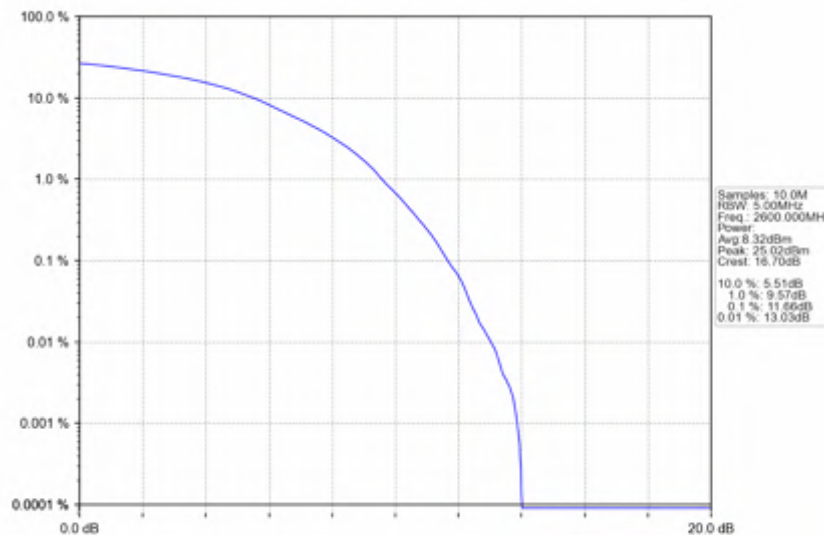
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n38_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_64_QAM_2595MHz_Outer_Full



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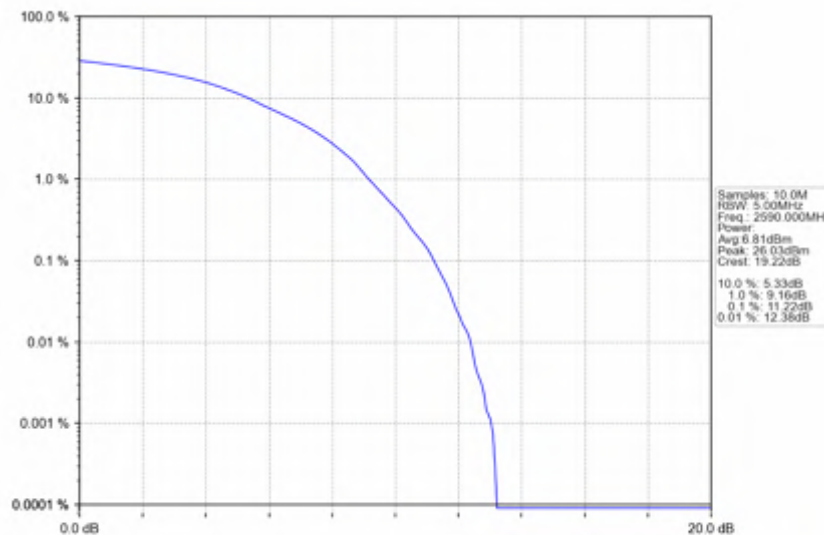
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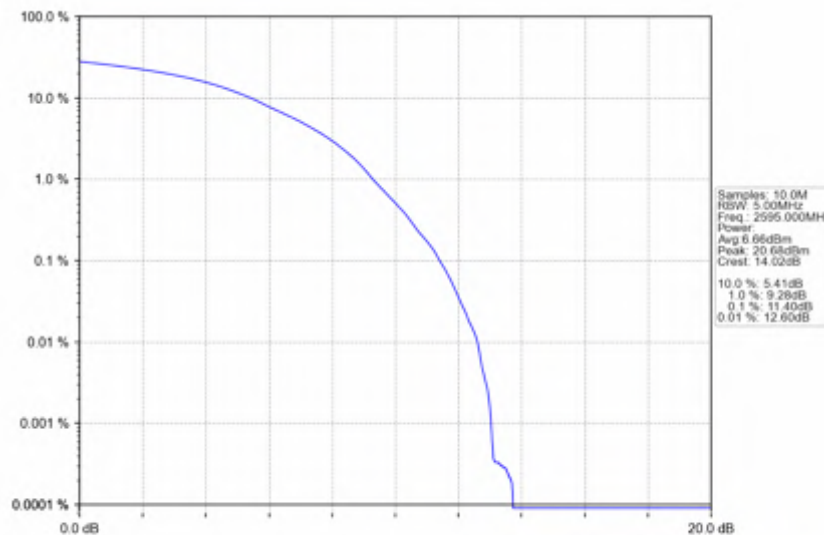
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n38_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_2590MHz_Outer_Full



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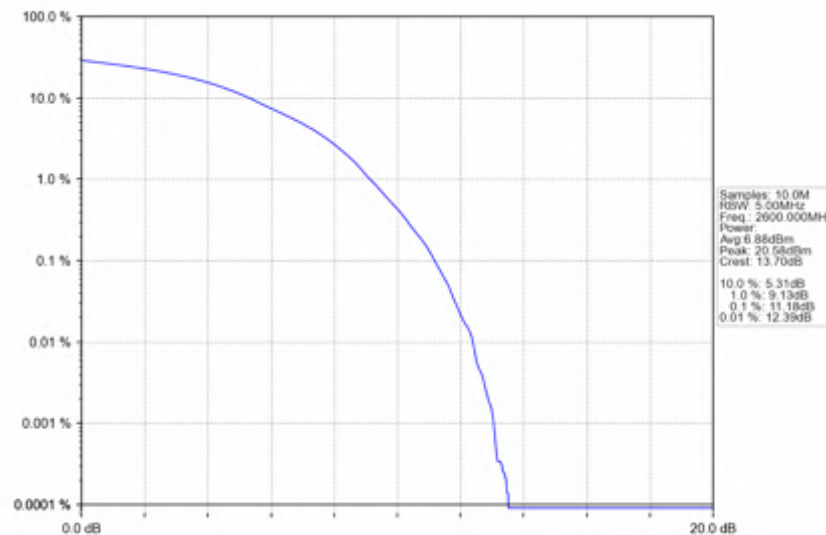
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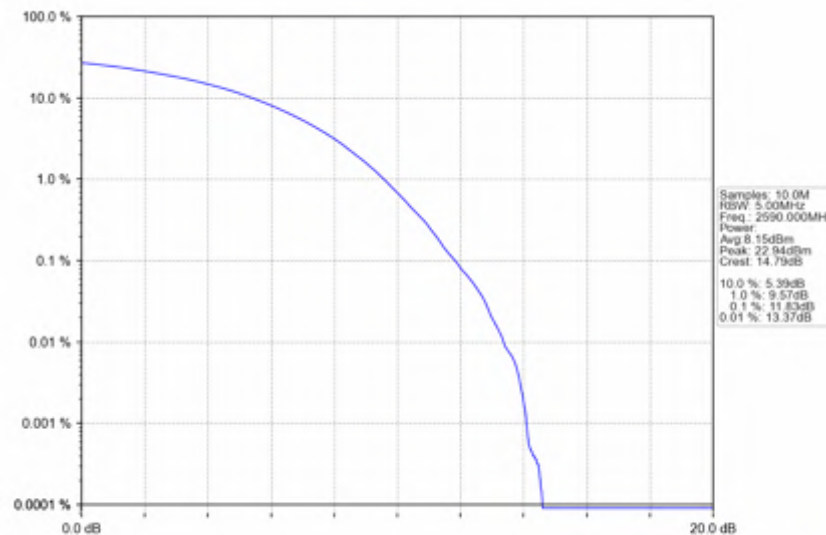
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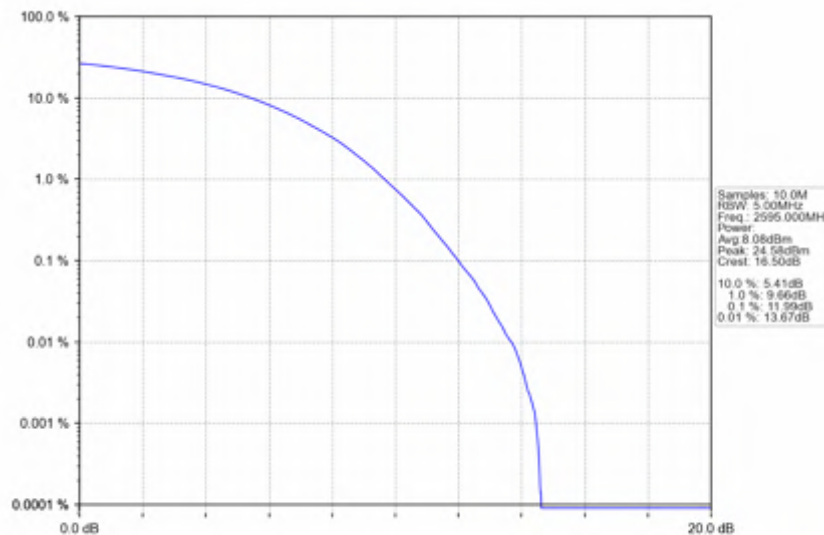
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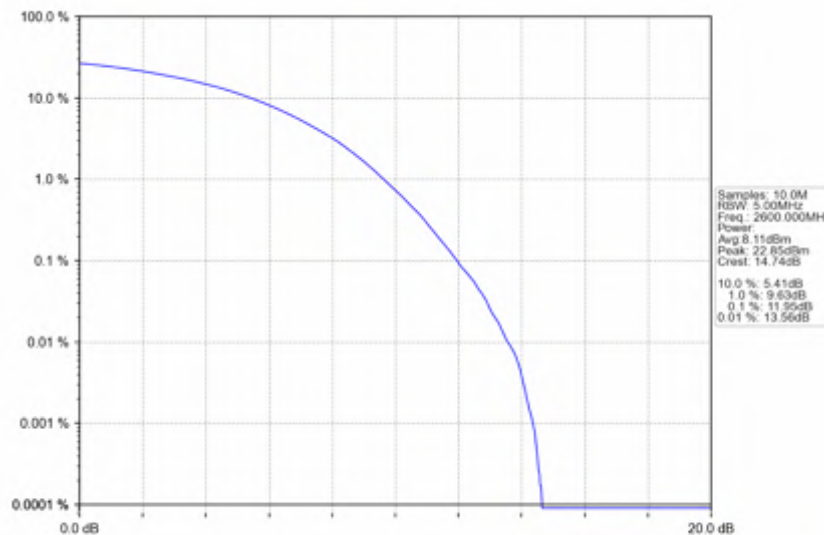
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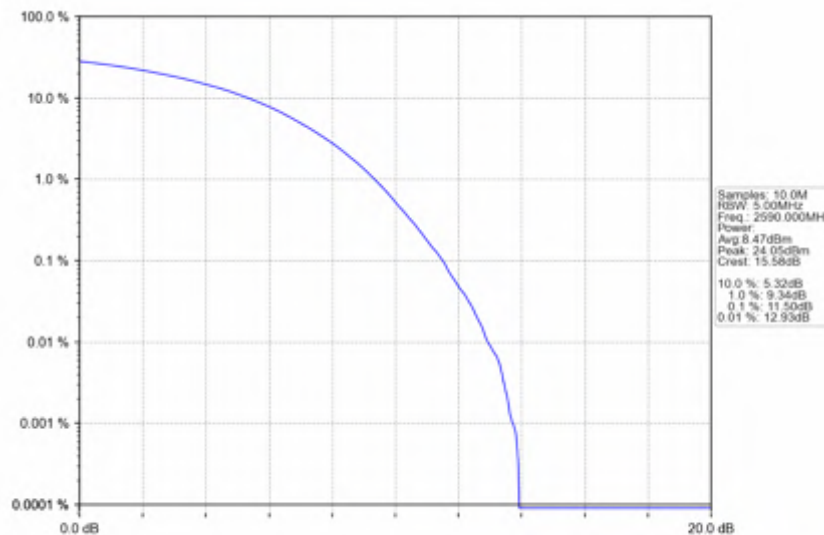
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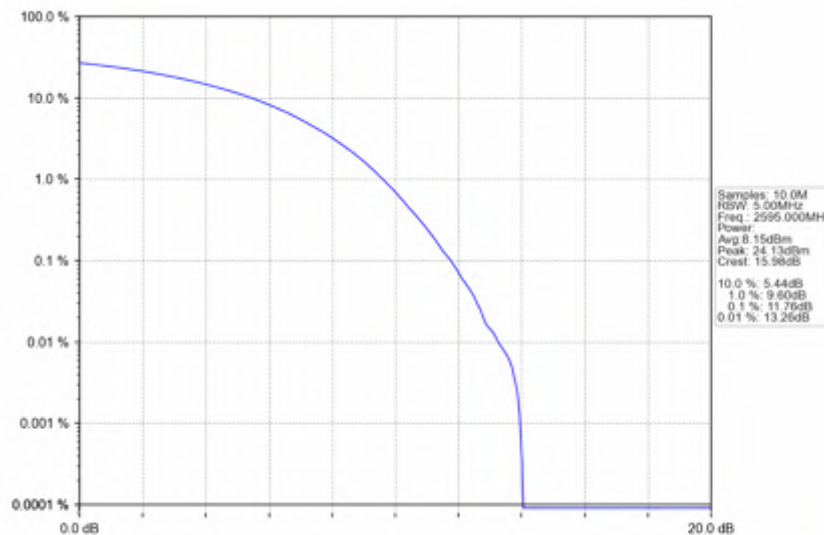
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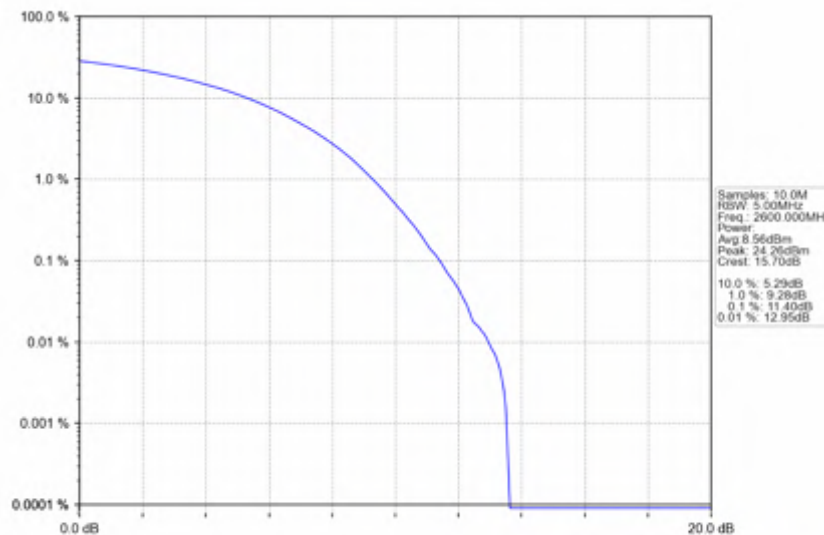


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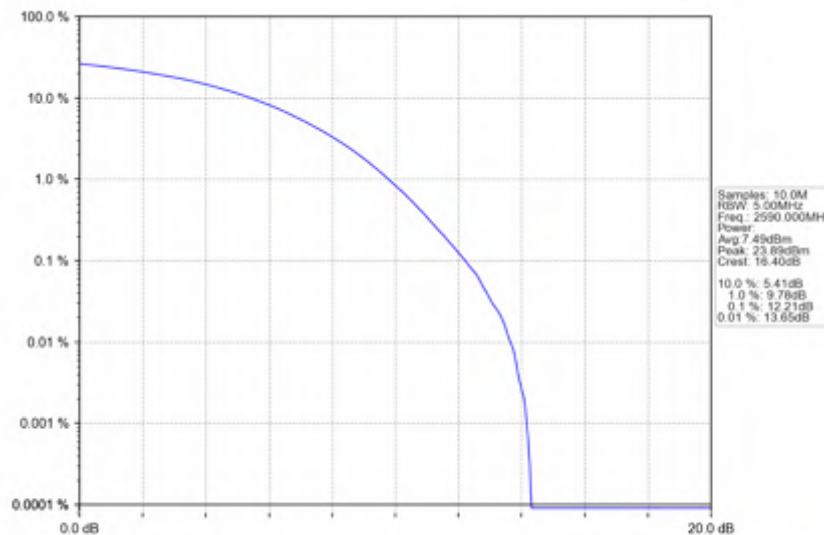
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n38_15kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_2600MHz_Outer_Full



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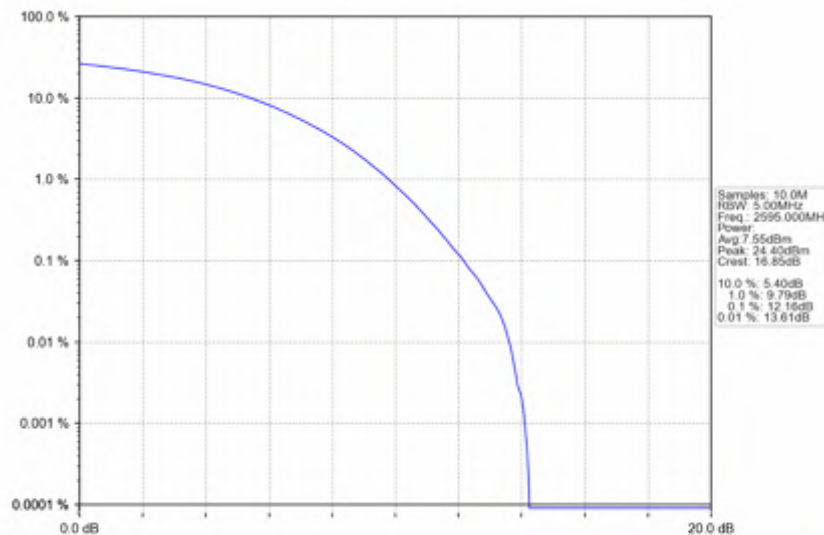
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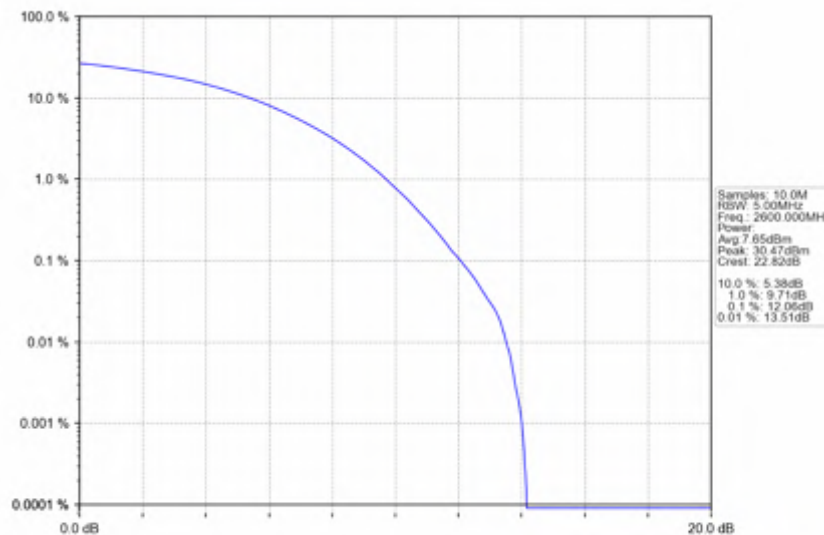
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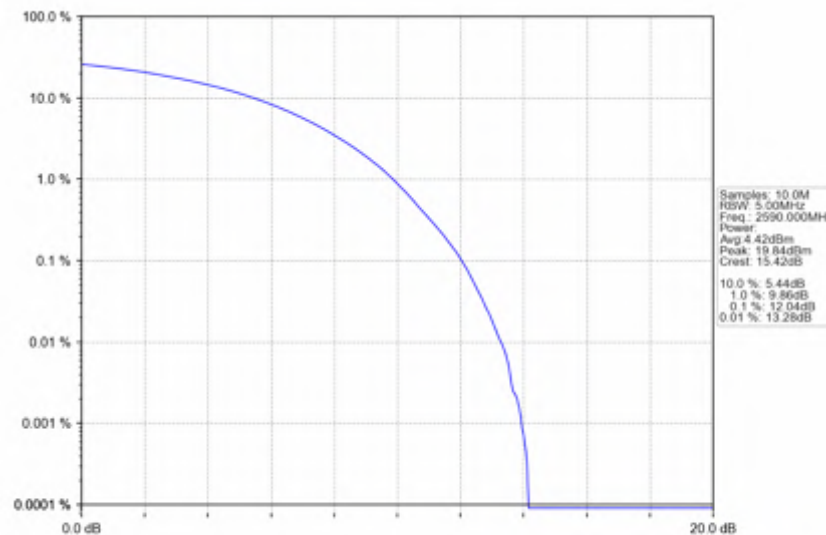
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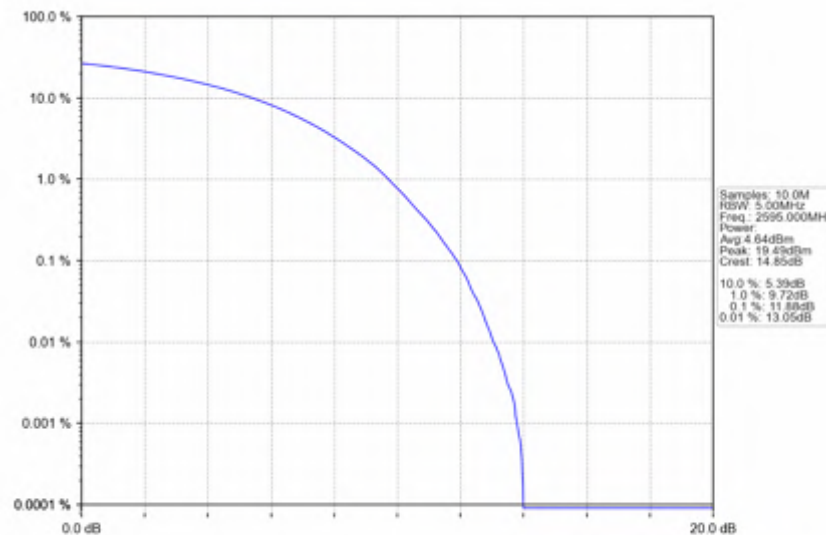
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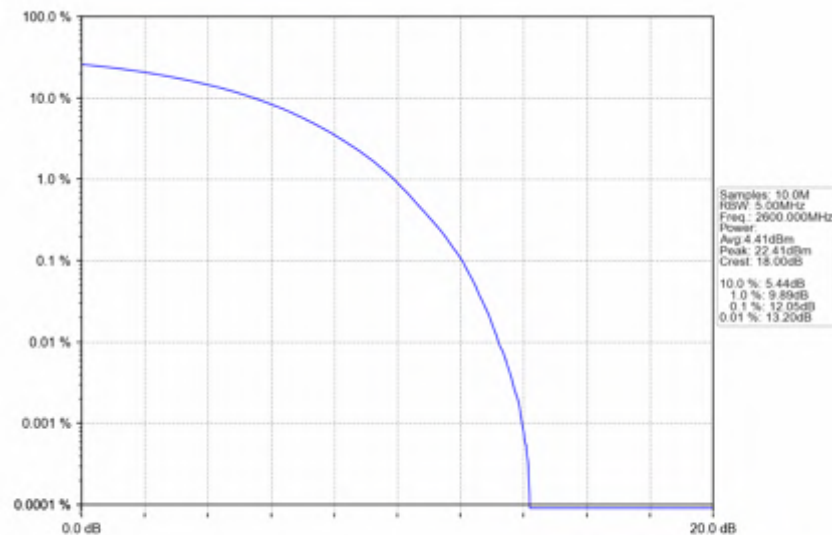
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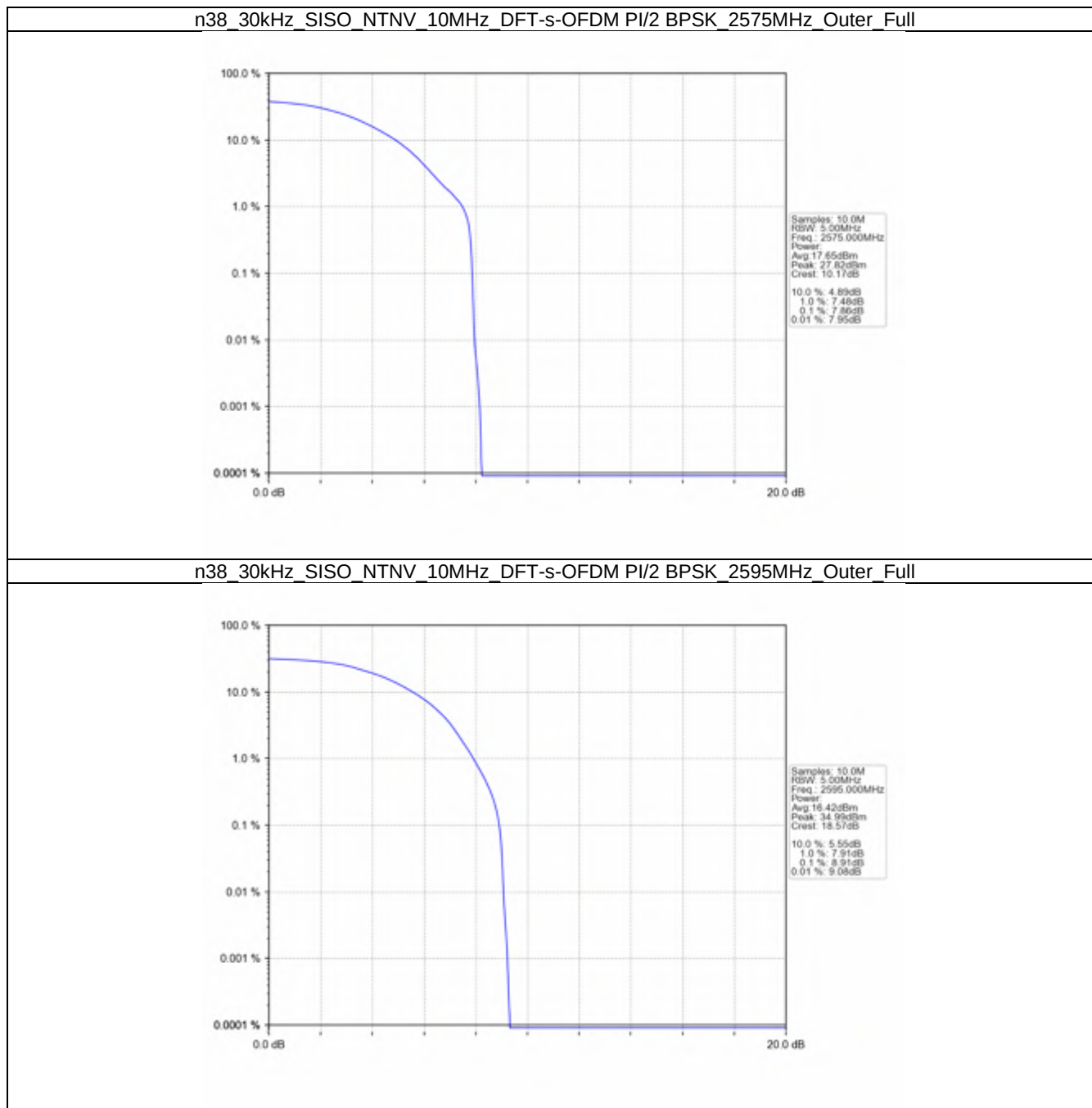
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5.8 30k_SISO_10MHz_NTNV

5.8.1 Test Result

5G NR n38 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	2575	Outer_Full	7.86	/	/	<=13	Pass
	2595	Outer_Full	8.91	/	/	<=13	Pass
	2615	Outer_Full	8.07	/	/	<=13	Pass
DFT-s-OFDM QPSK	2575	Outer_Full	9.14	/	/	<=13	Pass
	2595	Outer_Full	9.13	/	/	<=13	Pass
	2615	Outer_Full	9.10	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2575	Outer_Full	9.10	/	/	<=13	Pass
	2595	Outer_Full	9.02	/	/	<=13	Pass
	2615	Outer_Full	9.09	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2575	Outer_Full	8.50	/	/	<=13	Pass
	2595	Outer_Full	8.55	/	/	<=13	Pass
	2615	Outer_Full	10.17	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2575	Outer_Full	10.31	/	/	<=13	Pass
	2595	Outer_Full	10.18	/	/	<=13	Pass
	2615	Outer_Full	10.31	/	/	<=13	Pass
CP-OFDM QPSK	2575	Outer_Full	11.95	/	/	<=13	Pass
	2595	Outer_Full	11.66	/	/	<=13	Pass
	2615	Outer_Full	11.57	/	/	<=13	Pass
CP-OFDM 16 QAM	2575	Outer_Full	12.02	/	/	<=13	Pass
	2595	Outer_Full	11.61	/	/	<=13	Pass
	2615	Outer_Full	11.93	/	/	<=13	Pass
CP-OFDM 64 QAM	2575	Outer_Full	11.86	/	/	<=13	Pass
	2595	Outer_Full	11.88	/	/	<=13	Pass
	2615	Outer_Full	11.87	/	/	<=13	Pass
CP-OFDM 256 QAM	2575	Outer_Full	12.06	/	/	<=13	Pass
	2595	Outer_Full	11.95	/	/	<=13	Pass
	2615	Outer_Full	11.97	/	/	<=13	Pass

5.8.2 Test Graph



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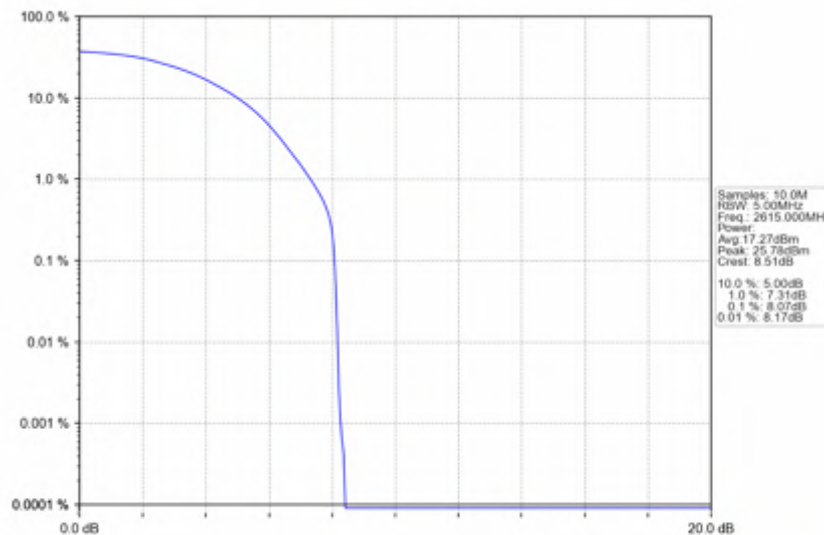
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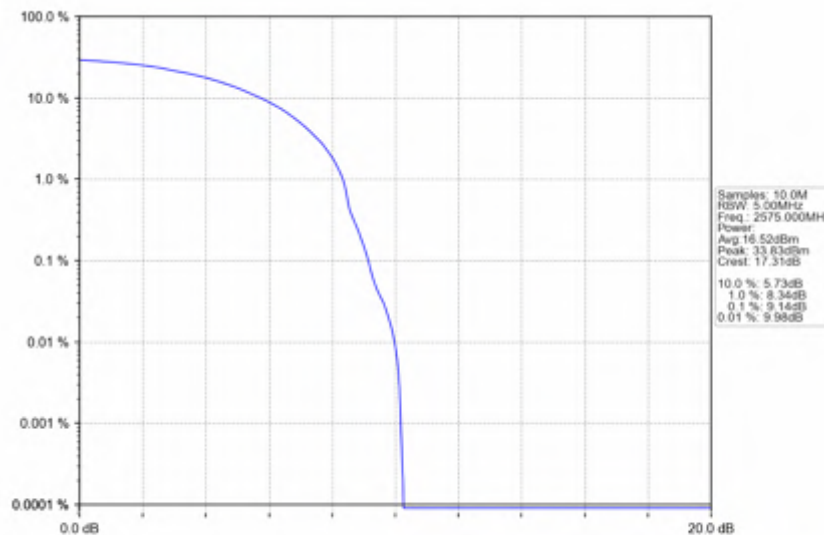
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n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2615MHz_Outer_Full



n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2575MHz_Outer_Full



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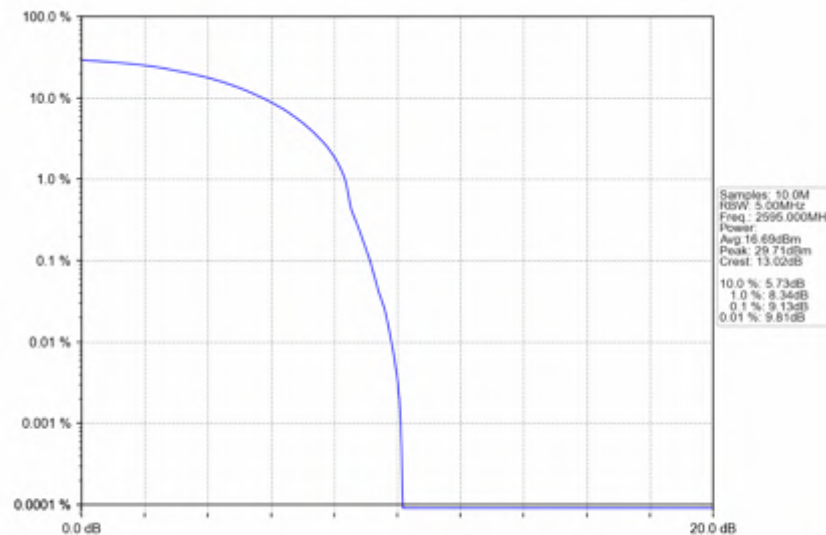
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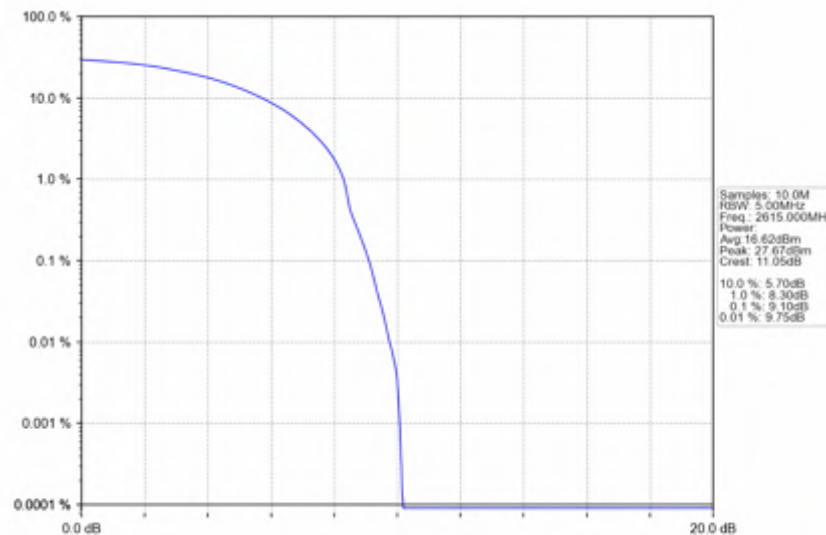
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n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2615MHz_Outer_Full



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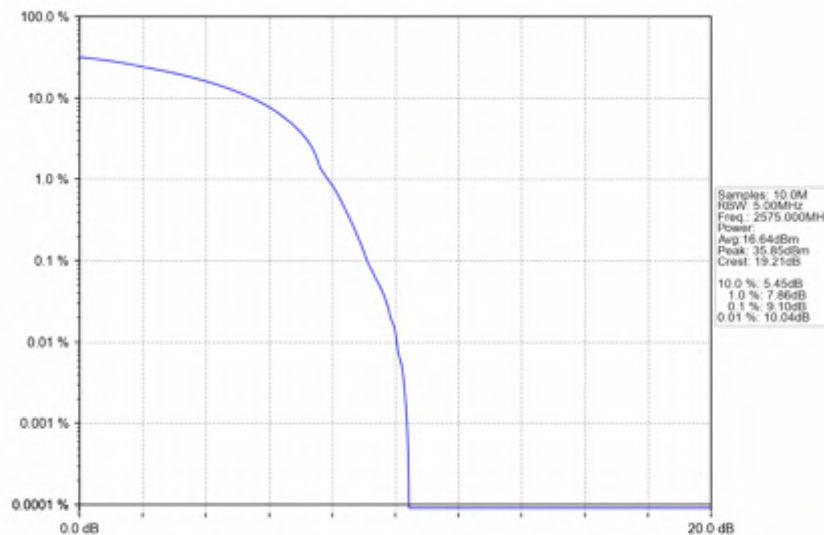
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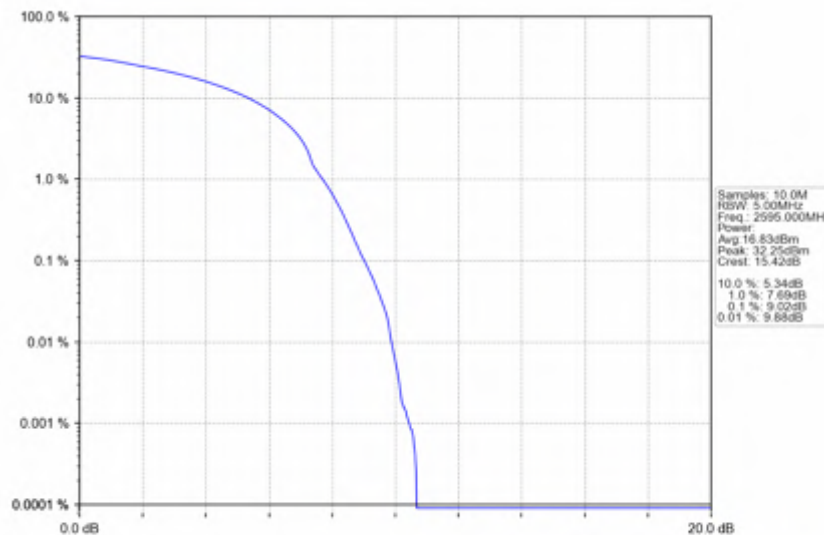
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n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_2575MHz_Outer_Full



n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_2595MHz_Outer_Full



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