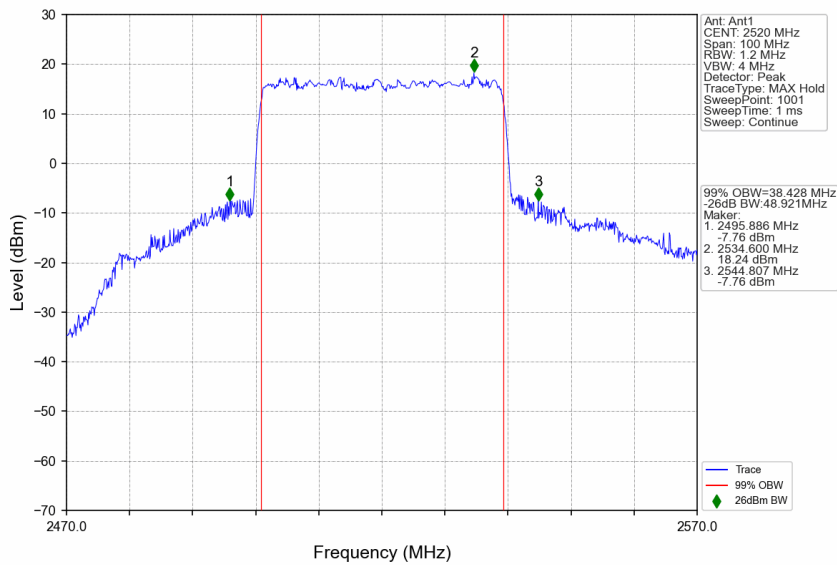
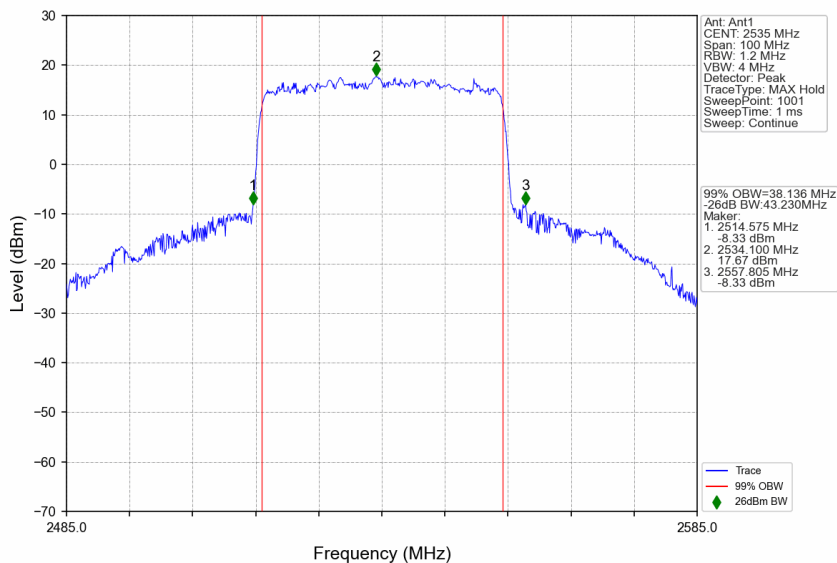


n7_30kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_2520MHz_Outer_Full



n7_30kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_2535MHz_Outer_Full

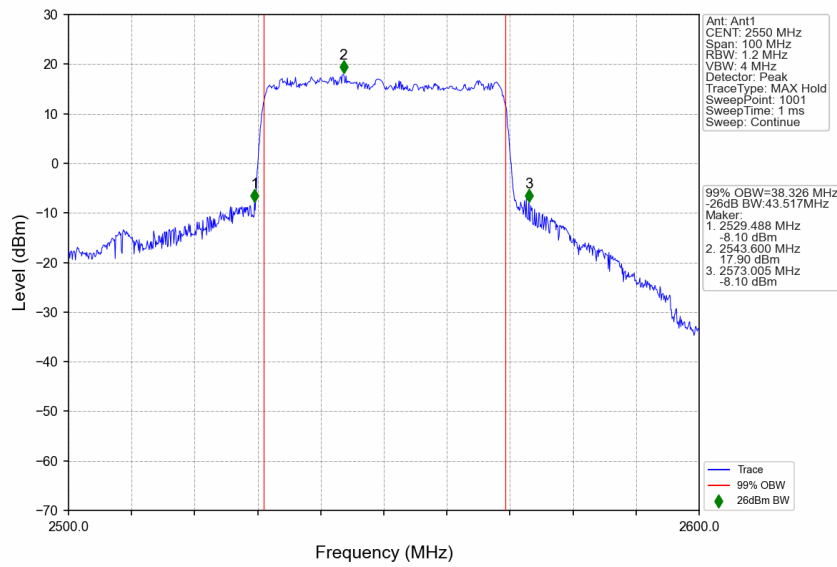


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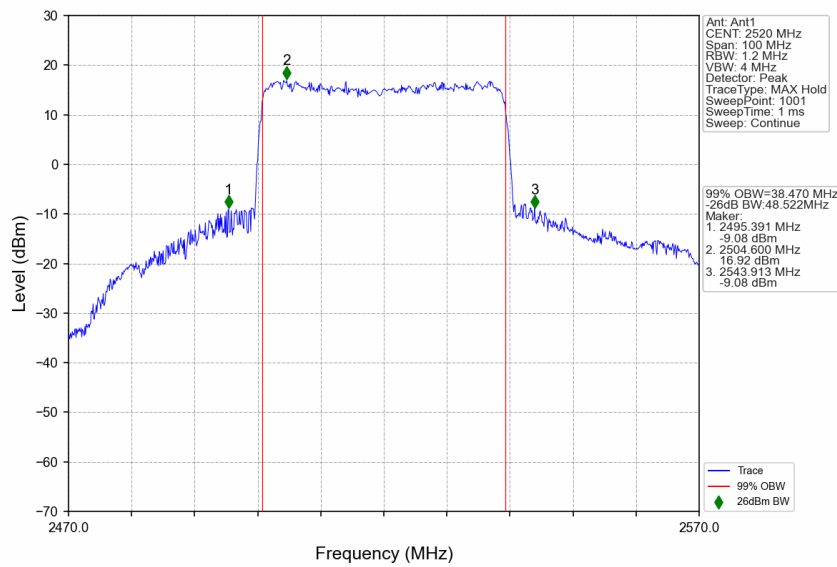
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n7_30kHz_SISO_NTV_40MHz_CP-OFDM 16 QAM_2550MHz_Outer_Full



n7_30kHz_SISO_NTV_40MHz_CP-OFDM 64 QAM_2520MHz_Outer_Full

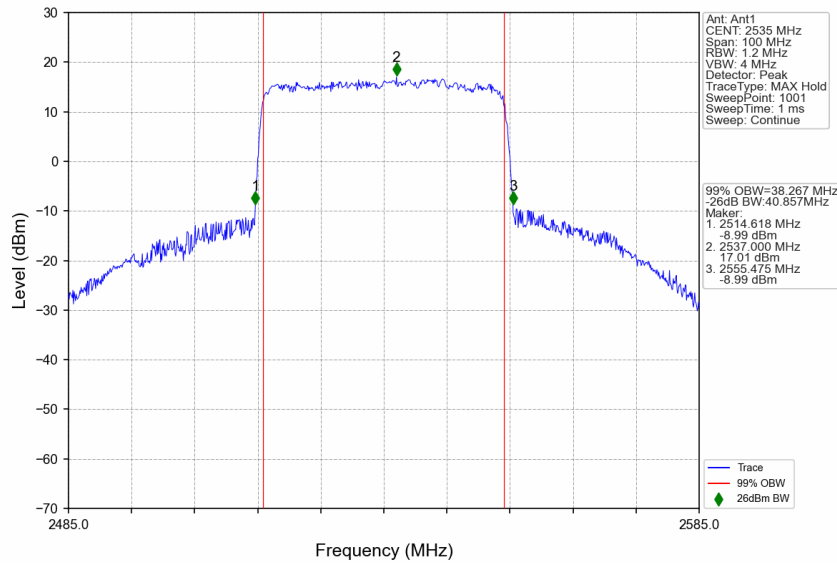


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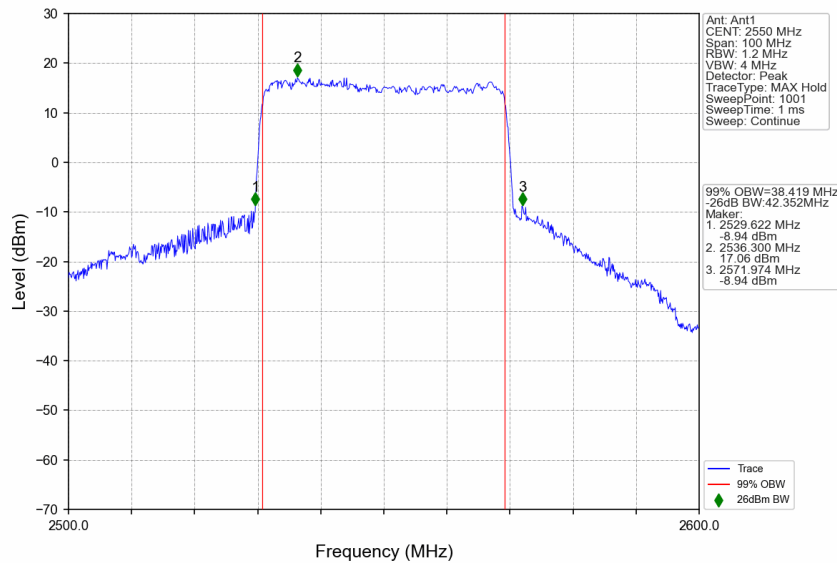
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n7_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_2535MHz_Outer_Full



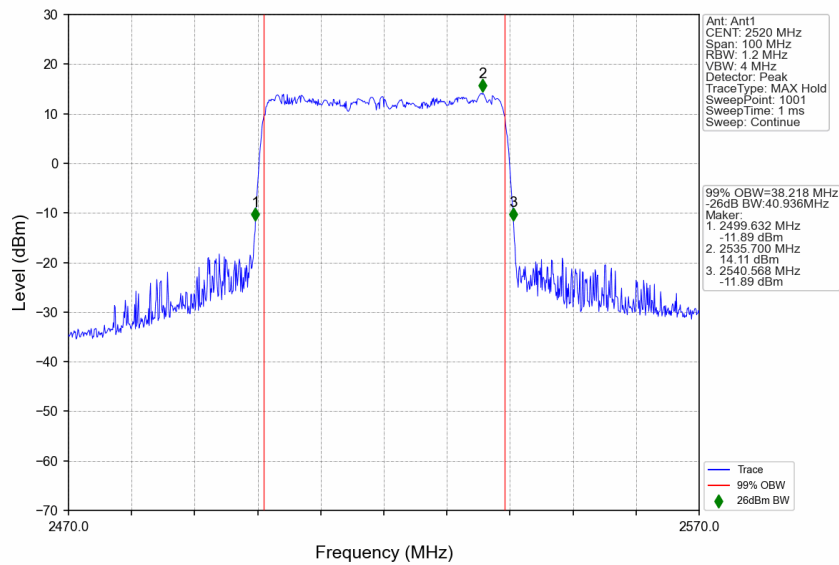
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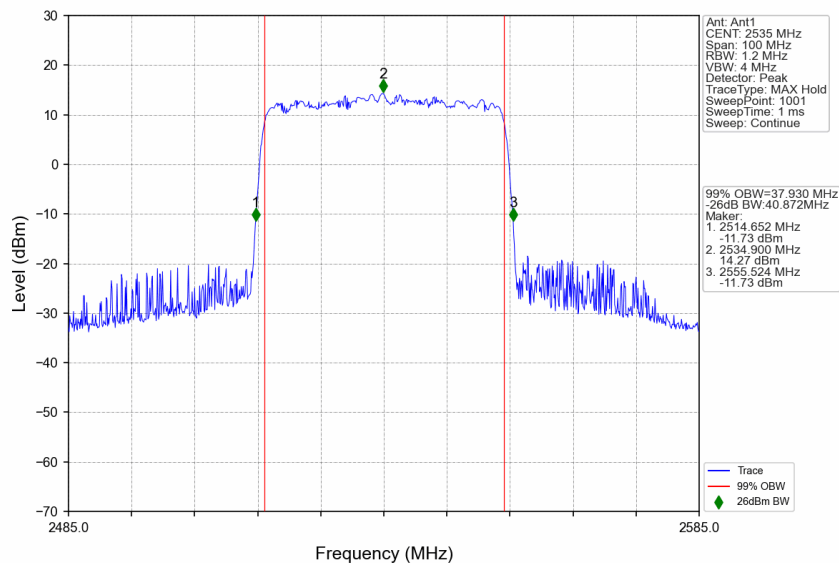
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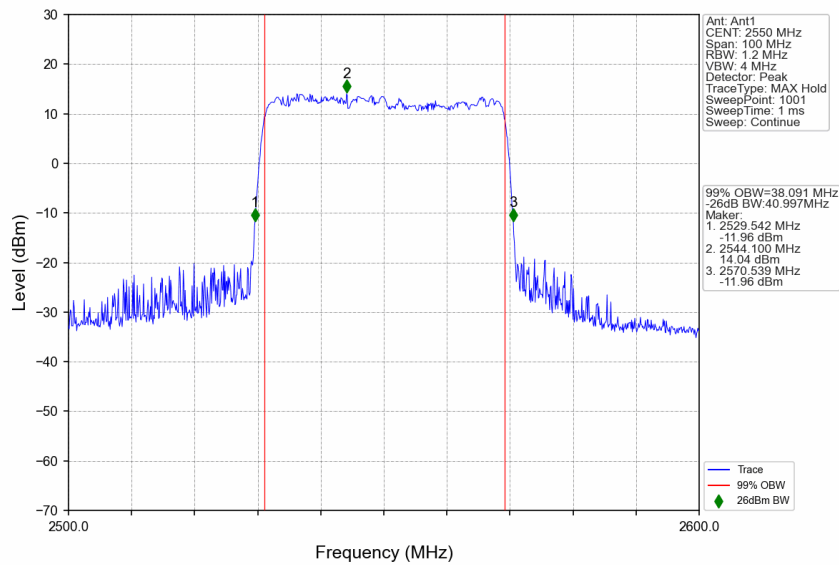


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n7_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_2550MHz_Outer_Full



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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
 Wireless Laboratory

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Member of the SGS Group (SGS SA)

4.15 30k_SISO_50MHz_NTNV

4.15.1 Test Result

5G NR n7 SCS=30kHz SISO 50MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2525	Outer_Full	46.30	49.44	/	Pass
	2535	Outer_Full	46.11	49.39	/	Pass
	2545	Outer_Full	46.22	49.53	/	Pass
DFT-s-OFDM QPSK	2525	Outer_Full	46.20	49.45	/	Pass
	2535	Outer_Full	46.03	49.35	/	Pass
	2545	Outer_Full	46.10	49.36	/	Pass
DFT-s-OFDM 16 QAM	2525	Outer_Full	46.16	49.38	/	Pass
	2535	Outer_Full	46.00	49.36	/	Pass
	2545	Outer_Full	46.09	49.41	/	Pass
DFT-s-OFDM 64 QAM	2525	Outer_Full	46.24	49.43	/	Pass
	2535	Outer_Full	46.05	49.40	/	Pass
	2545	Outer_Full	46.19	49.44	/	Pass
DFT-s-OFDM 256 QAM	2525	Outer_Full	46.13	49.33	/	Pass
	2535	Outer_Full	45.94	49.25	/	Pass
	2545	Outer_Full	45.97	49.29	/	Pass
CP-OFDM QPSK	2525	Outer_Full	48.16	66.74	/	Pass
	2535	Outer_Full	47.93	61.17	/	Pass
	2545	Outer_Full	48.01	55.63	/	Pass
CP-OFDM 16 QAM	2525	Outer_Full	48.09	57.36	/	Pass
	2535	Outer_Full	47.92	51.93	/	Pass
	2545	Outer_Full	48.01	52.63	/	Pass
CP-OFDM 64 QAM	2525	Outer_Full	48.08	51.59	/	Pass
	2535	Outer_Full	47.94	51.62	/	Pass
	2545	Outer_Full	48.00	51.68	/	Pass
CP-OFDM 256 QAM	2525	Outer_Full	47.85	51.34	/	Pass
	2535	Outer_Full	47.68	51.14	/	Pass
	2545	Outer_Full	47.74	51.10	/	Pass

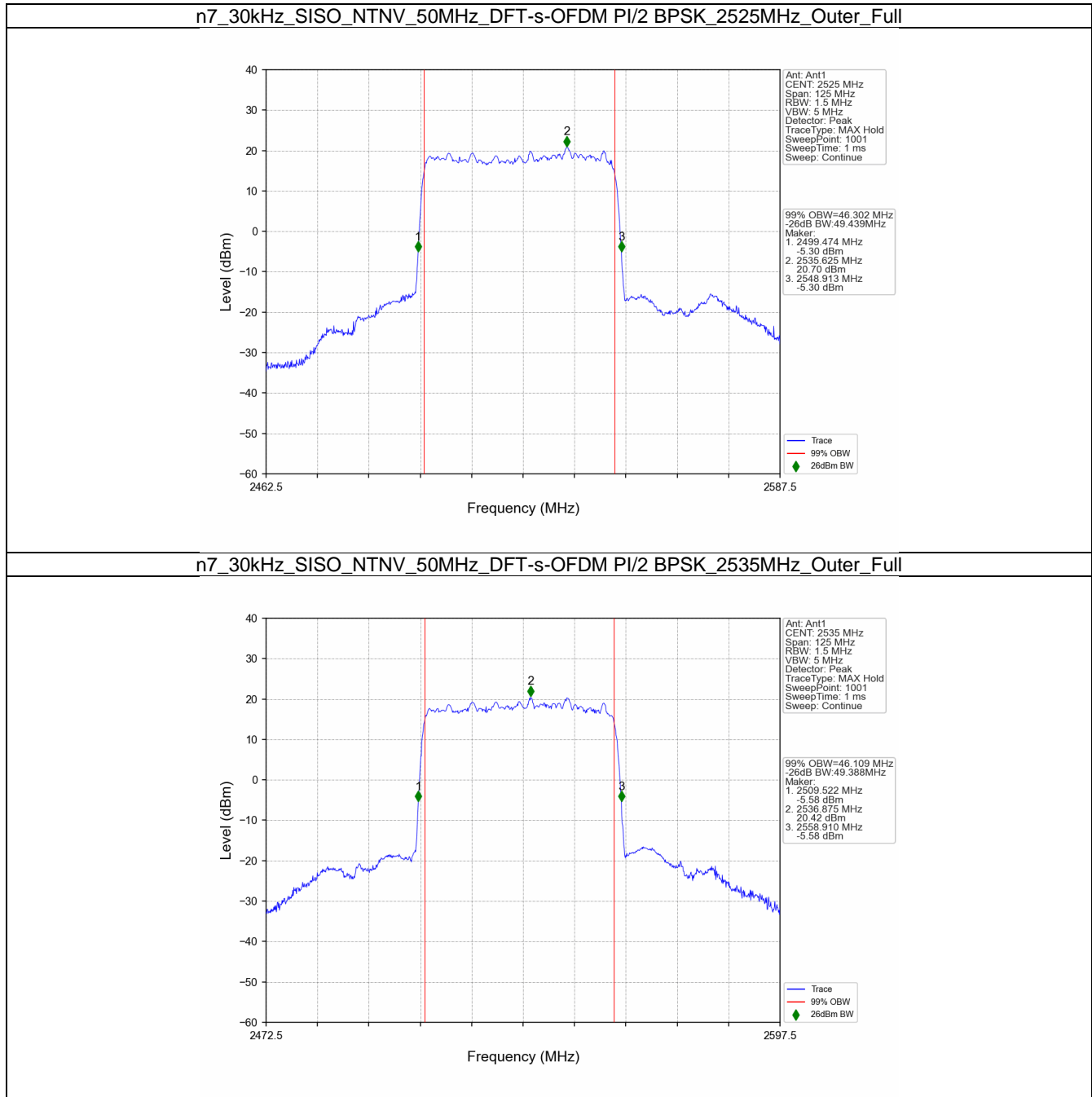


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4.15.2 Test Graph

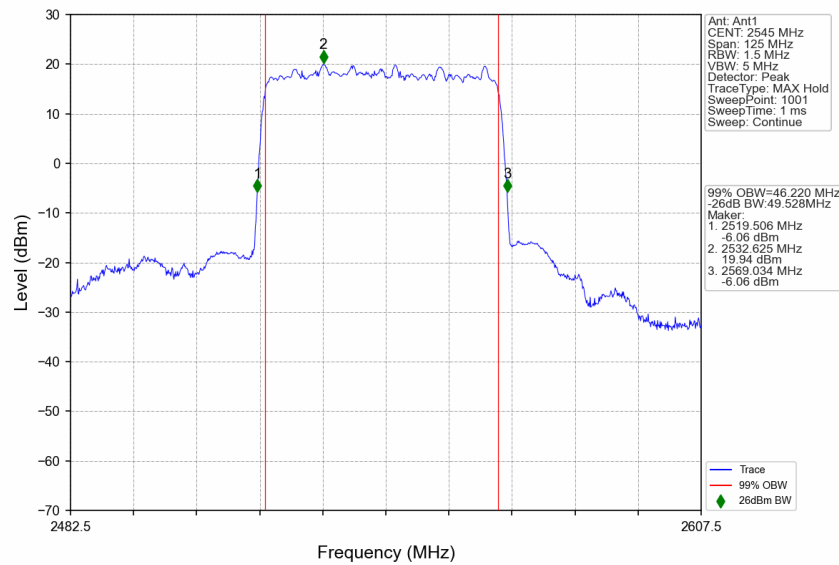


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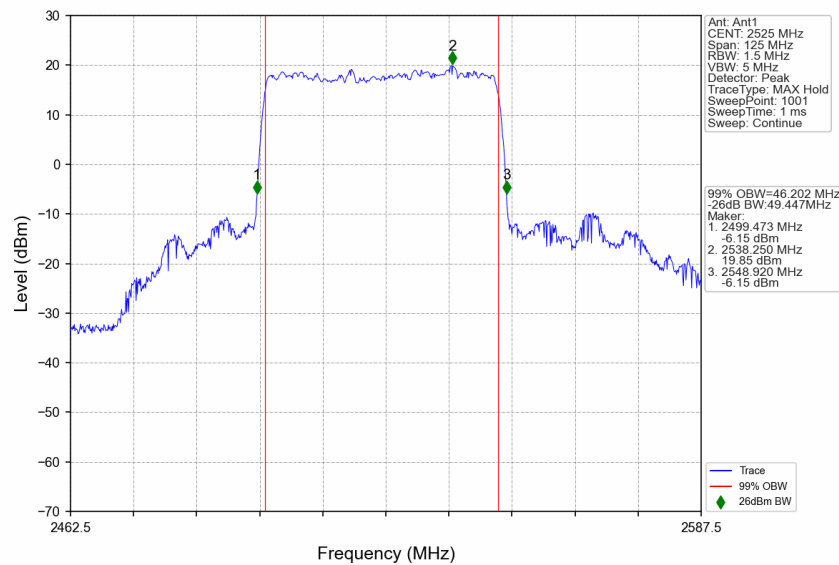
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n7_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM PI/2 BPSK_2545MHz_Outer_Full



n7_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM QPSK_2525MHz_Outer_Full

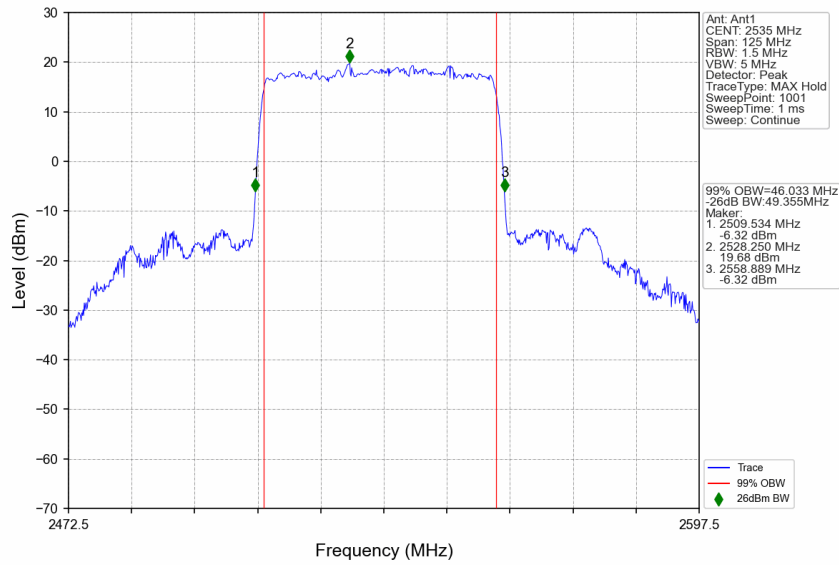


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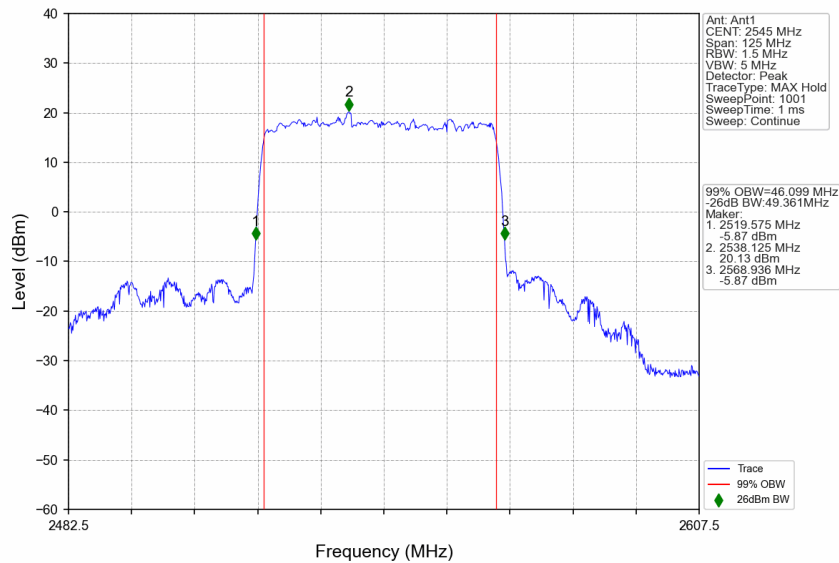
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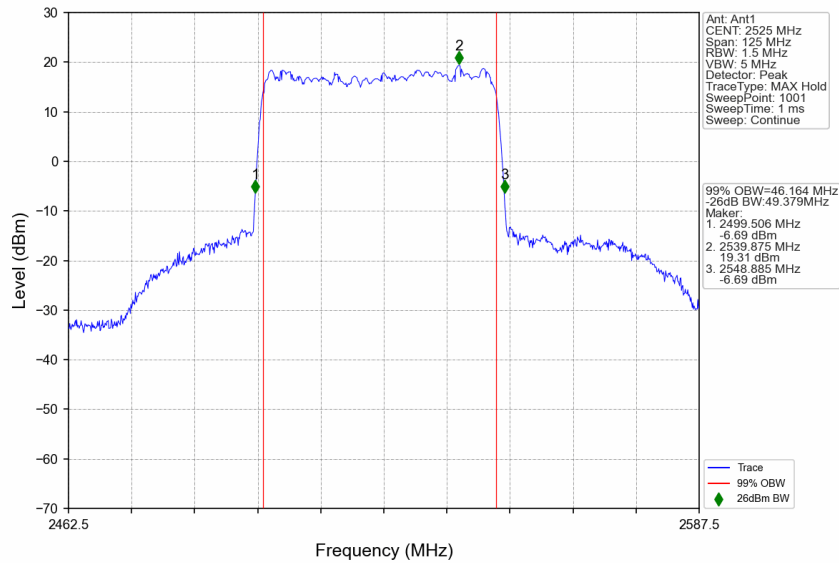


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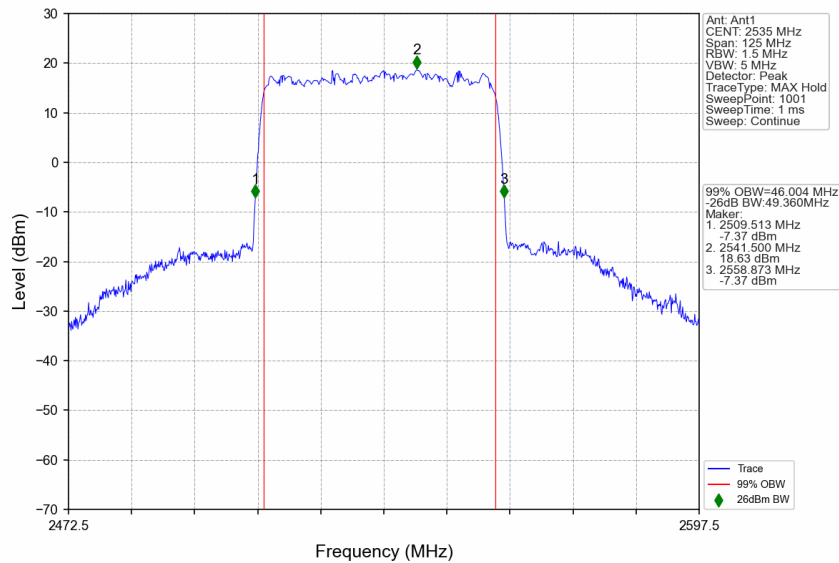
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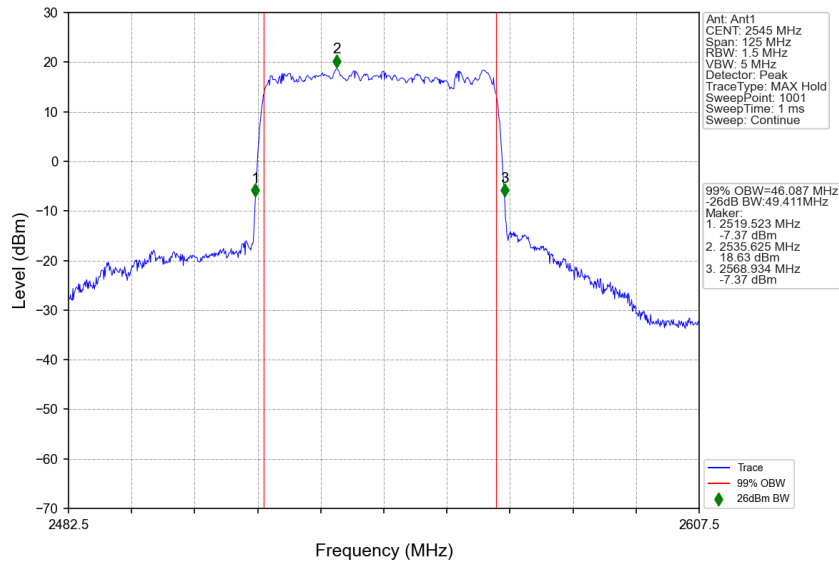


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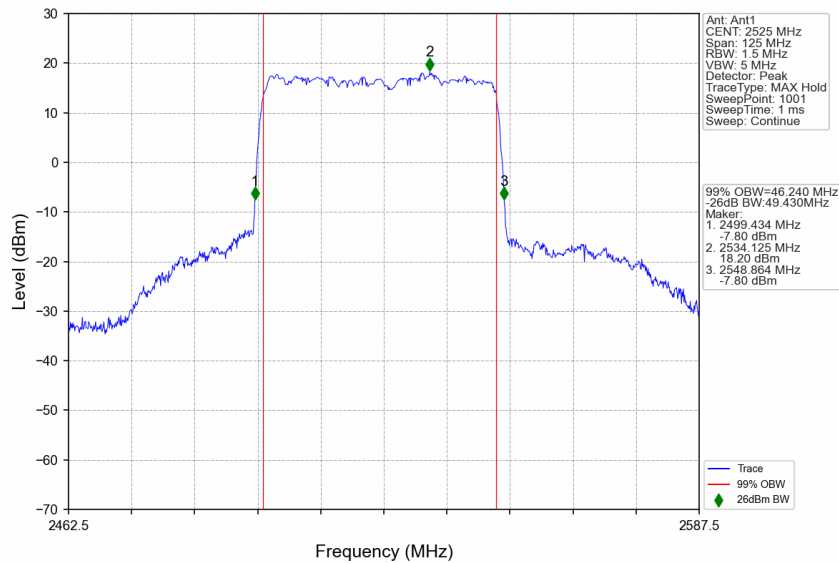
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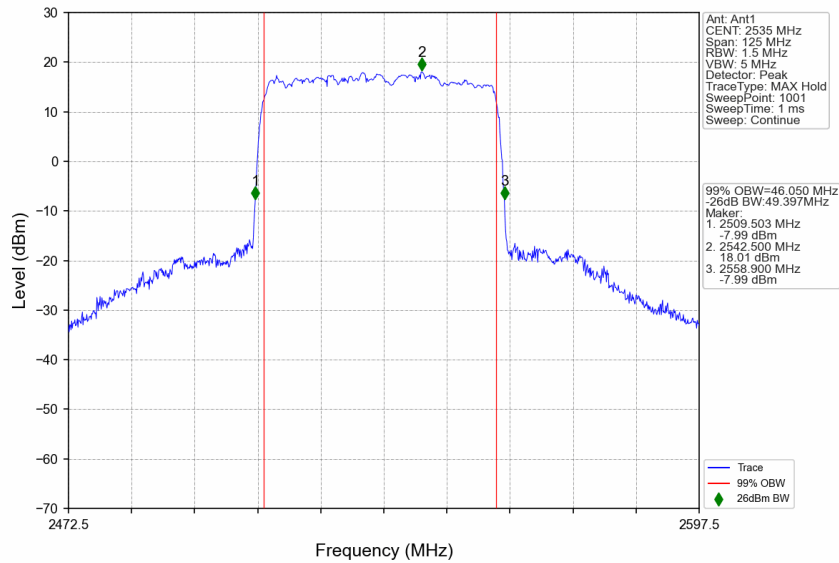


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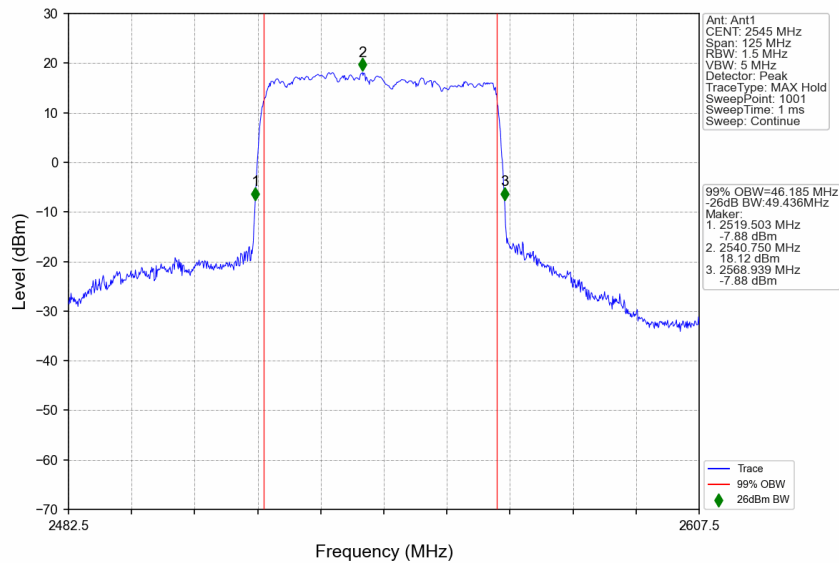
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n7_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 64 QAM_2535MHz_Outer_Full



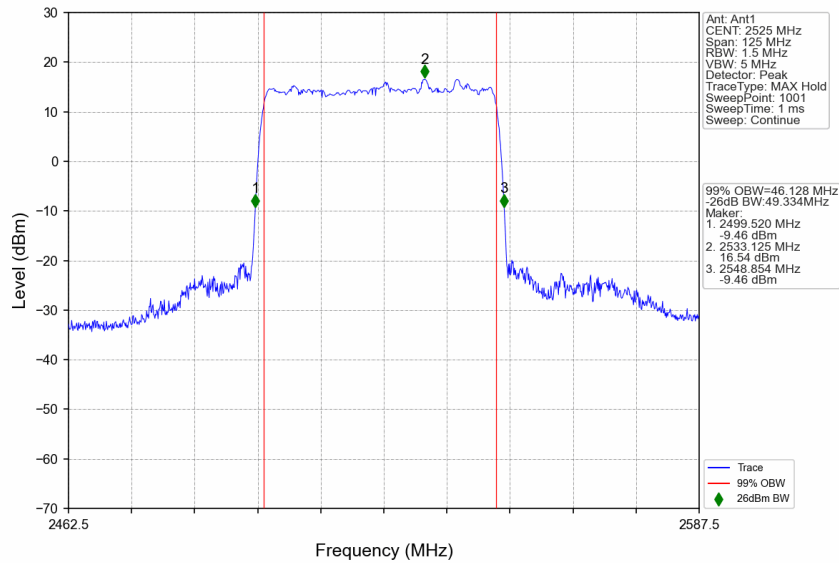
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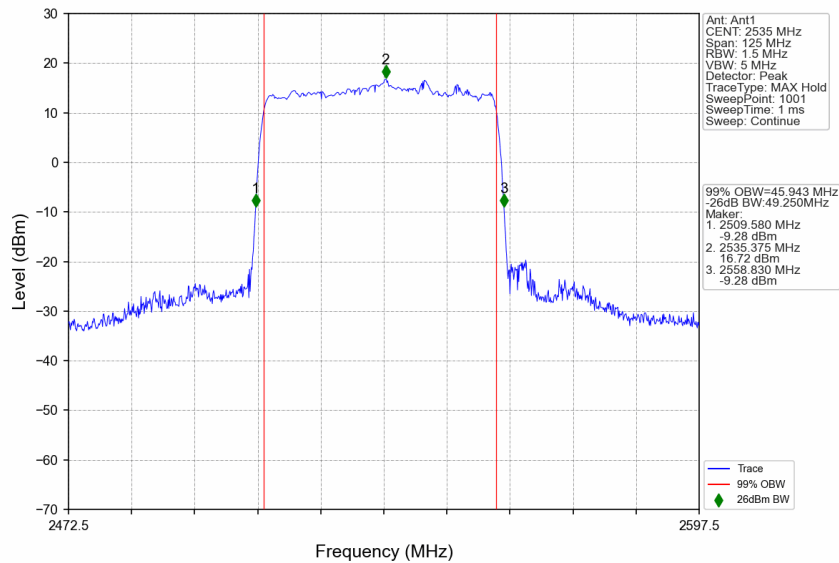
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n7_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 256 QAM_2525MHz_Outer_Full



n7_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 256 QAM_2535MHz_Outer_Full

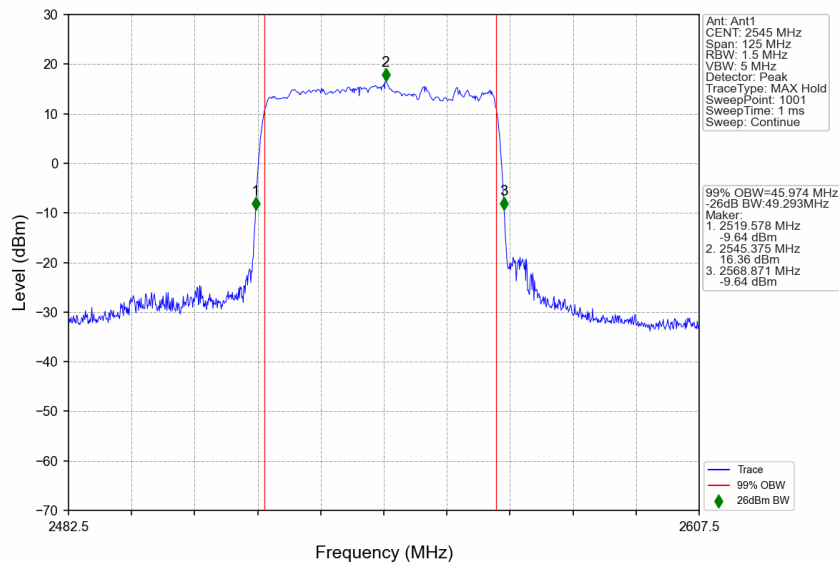


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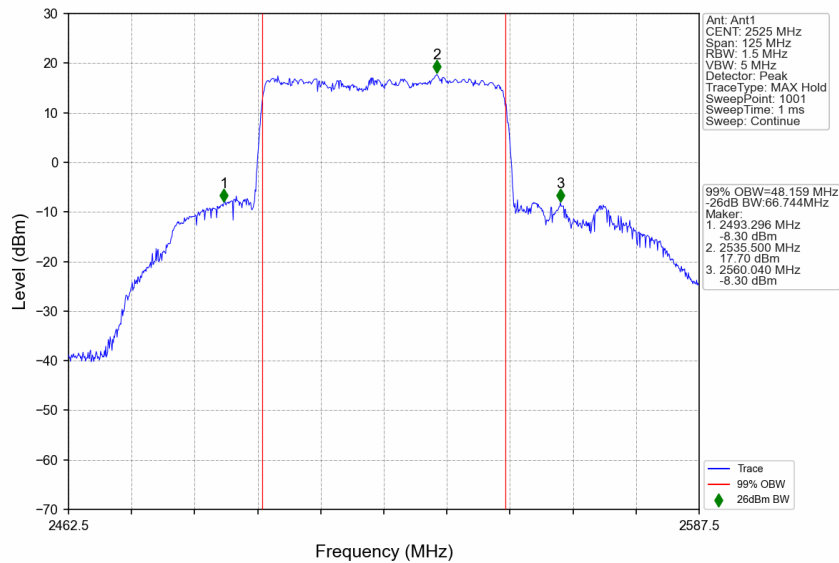
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n7_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 256 QAM_2545MHz_Outer_Full



n7_30kHz_SISO_NTNV_50MHz_CP-OFDM QPSK_2525MHz_Outer_Full

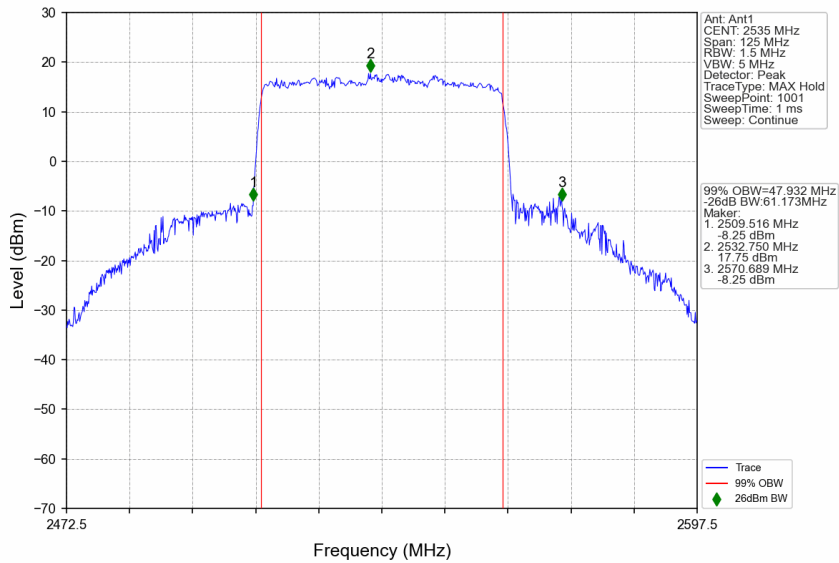


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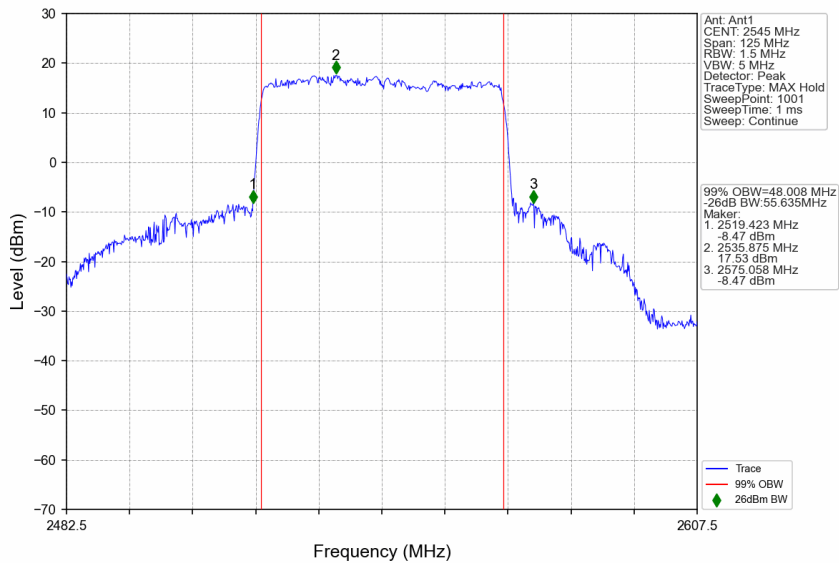
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n7_30kHz_SISO_NTNV_50MHz_CP-OFDM QPSK_2535MHz_Outer_Full



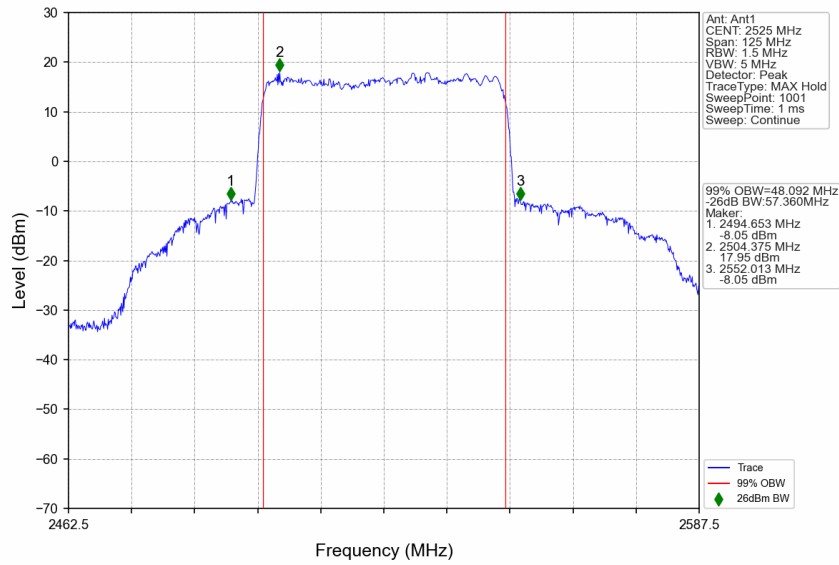
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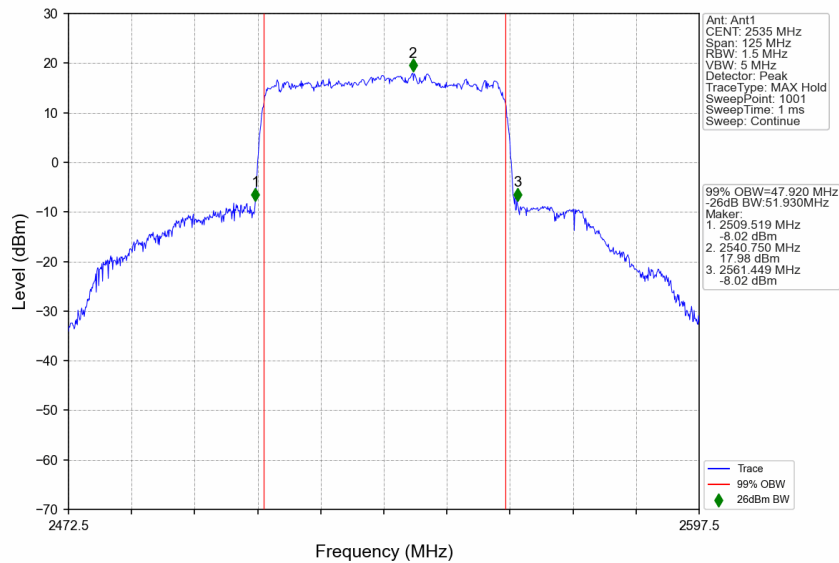
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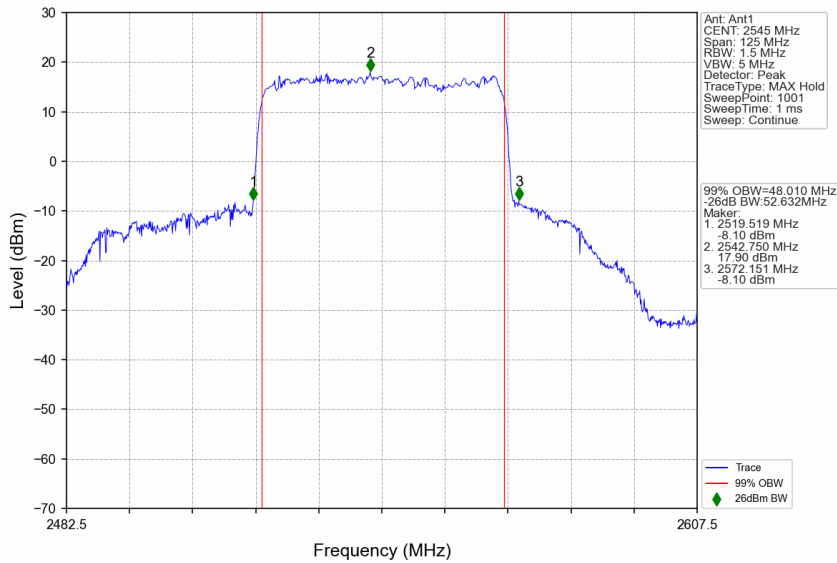


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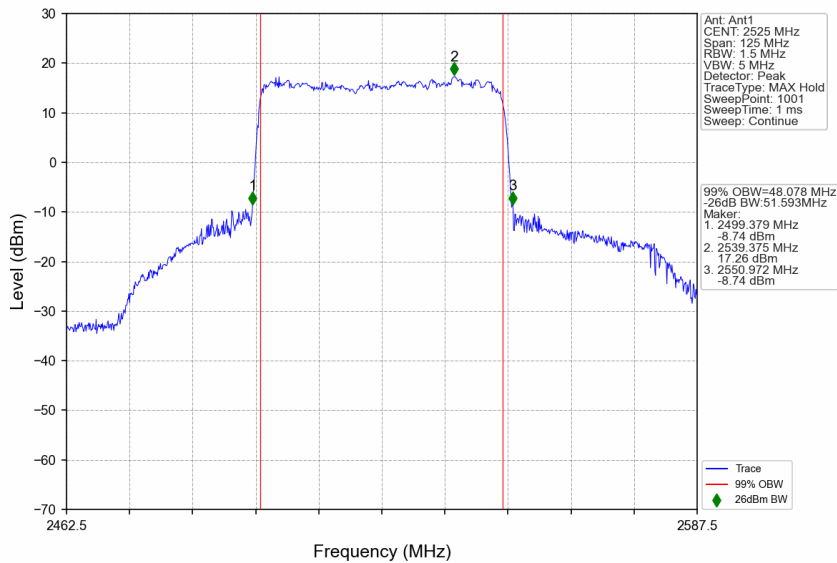
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n7_30kHz_SISO_NTNV_50MHz_CP-OFDM 16 QAM_2545MHz_Outer_Full



n7_30kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_2525MHz_Outer_Full

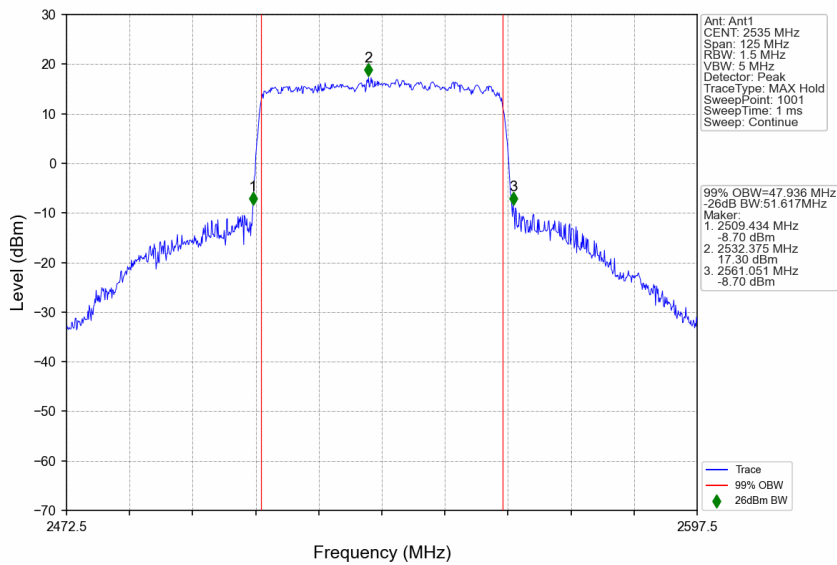


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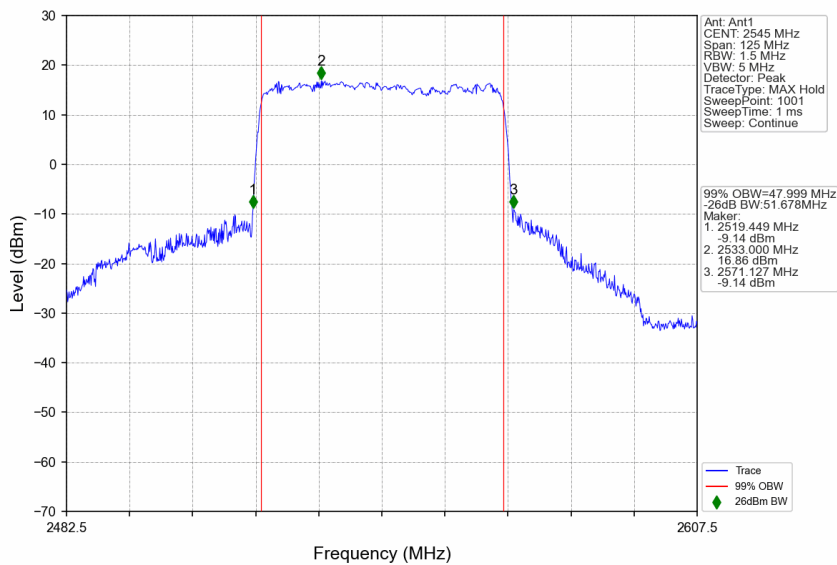
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n7_30kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_2535MHz_Outer_Full



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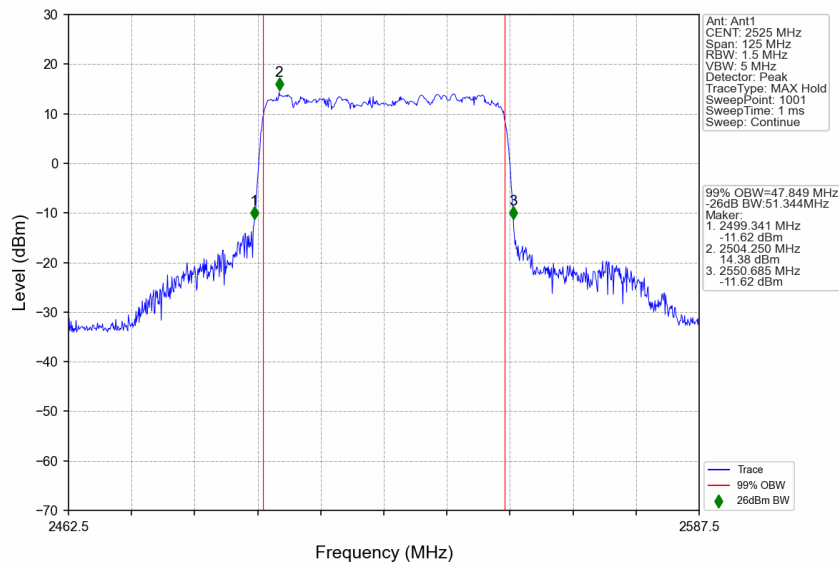


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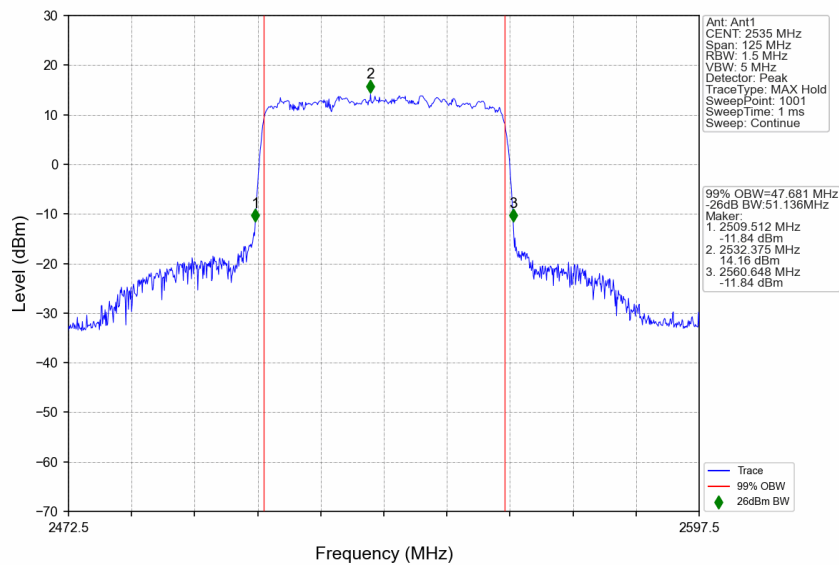
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n7_30kHz_SISO_NTNV_50MHz_CP-OFDM 256 QAM_2525MHz_Outer_Full



n7_30kHz_SISO_NTNV_50MHz_CP-OFDM 256 QAM_2535MHz_Outer_Full

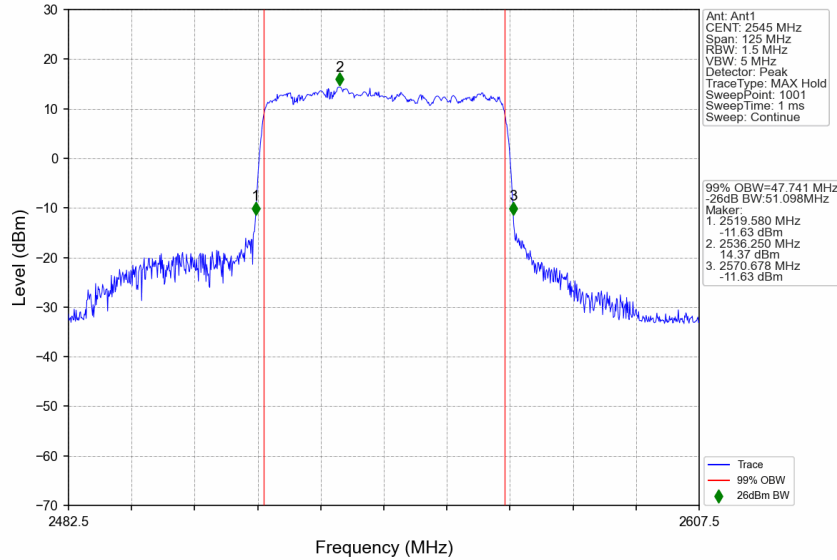


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n7_30kHz_SISO_NTNV_50MHz_CP-OFDM 256 QAM_2545MHz_Outer_Full



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5. Peak-Average Ratio

5.1 15k_SISO_5MHz_NTNV

5.1.1 Test Result

5G NR n7 SCS=15kHz SISO 5MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2502.5	Outer_Full	4.22	/	/	<=13	Pass
	2535	Outer_Full	4.27	/	/	<=13	Pass
	2567.5	Outer_Full	4.19	/	/	<=13	Pass
DFT-s-OFDM QPSK	2502.5	Outer_Full	5.39	/	/	<=13	Pass
	2535	Outer_Full	5.44	/	/	<=13	Pass
	2567.5	Outer_Full	5.33	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2502.5	Outer_Full	6.07	/	/	<=13	Pass
	2535	Outer_Full	6.18	/	/	<=13	Pass
	2567.5	Outer_Full	6.06	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2502.5	Outer_Full	6.22	/	/	<=13	Pass
	2535	Outer_Full	6.35	/	/	<=13	Pass
	2567.5	Outer_Full	6.28	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2502.5	Outer_Full	6.83	/	/	<=13	Pass
	2535	Outer_Full	6.90	/	/	<=13	Pass
	2567.5	Outer_Full	6.88	/	/	<=13	Pass
CP-OFDM QPSK	2502.5	Outer_Full	7.47	/	/	<=13	Pass
	2535	Outer_Full	7.65	/	/	<=13	Pass
	2567.5	Outer_Full	7.57	/	/	<=13	Pass
CP-OFDM 16 QAM	2502.5	Outer_Full	7.42	/	/	<=13	Pass
	2535	Outer_Full	7.58	/	/	<=13	Pass
	2567.5	Outer_Full	7.50	/	/	<=13	Pass
CP-OFDM 64 QAM	2502.5	Outer_Full	7.82	/	/	<=13	Pass
	2535	Outer_Full	8.00	/	/	<=13	Pass
	2567.5	Outer_Full	7.94	/	/	<=13	Pass
CP-OFDM 256 QAM	2502.5	Outer_Full	8.56	/	/	<=13	Pass
	2535	Outer_Full	8.64	/	/	<=13	Pass
	2567.5	Outer_Full	8.60	/	/	<=13	Pass

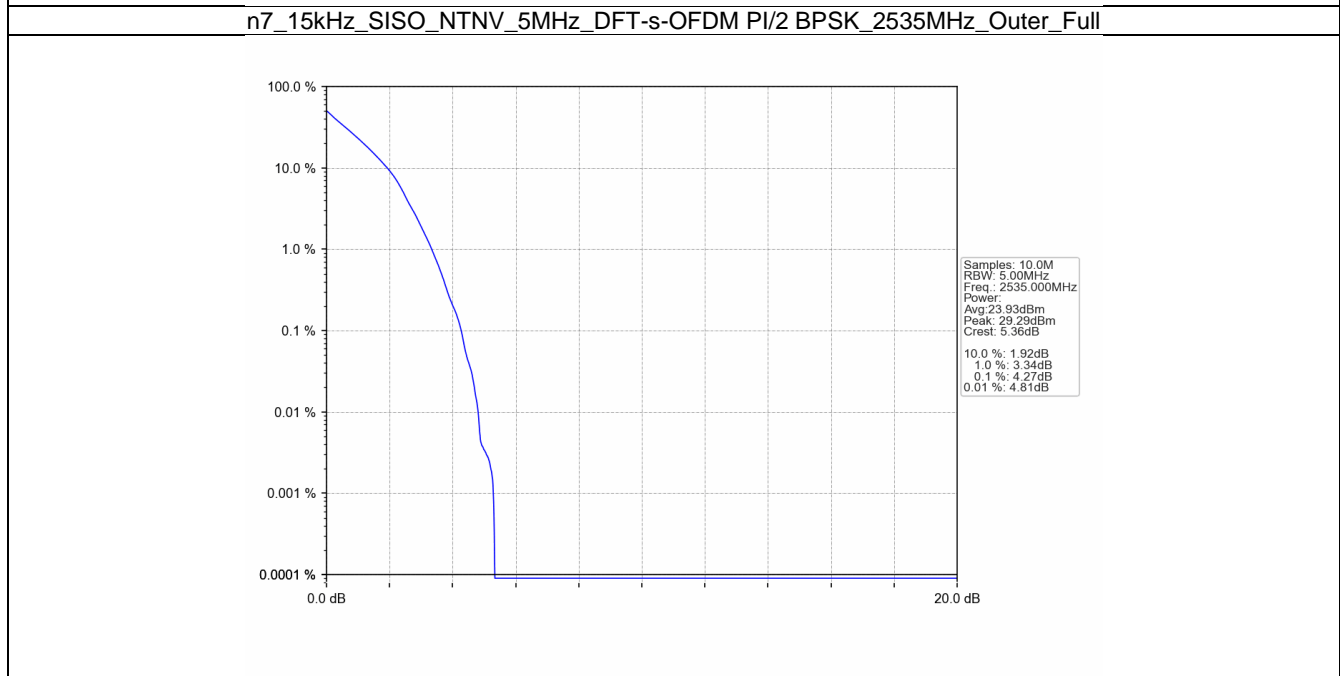
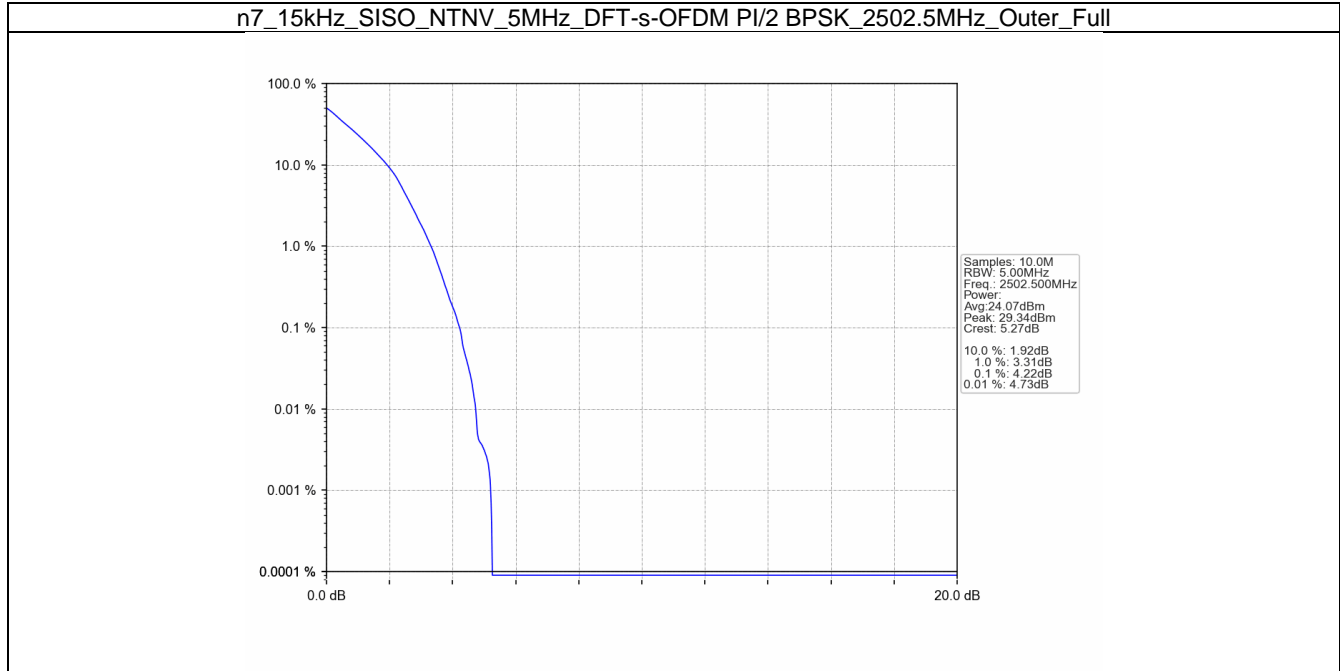


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5.1.2 Test Graph

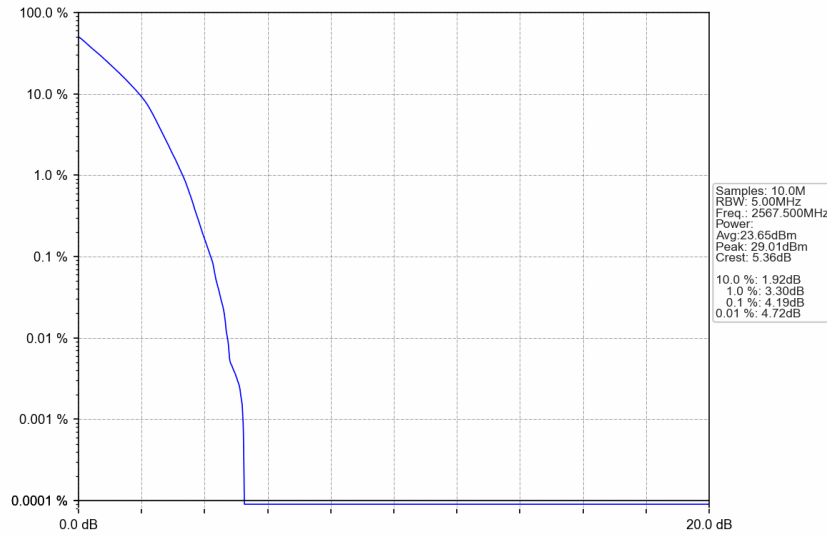


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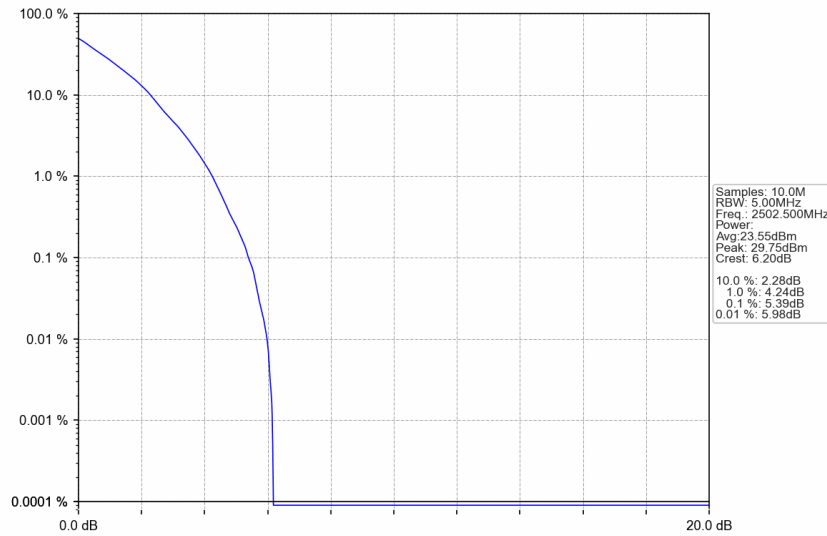
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n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2567.5MHz_Outer_Full



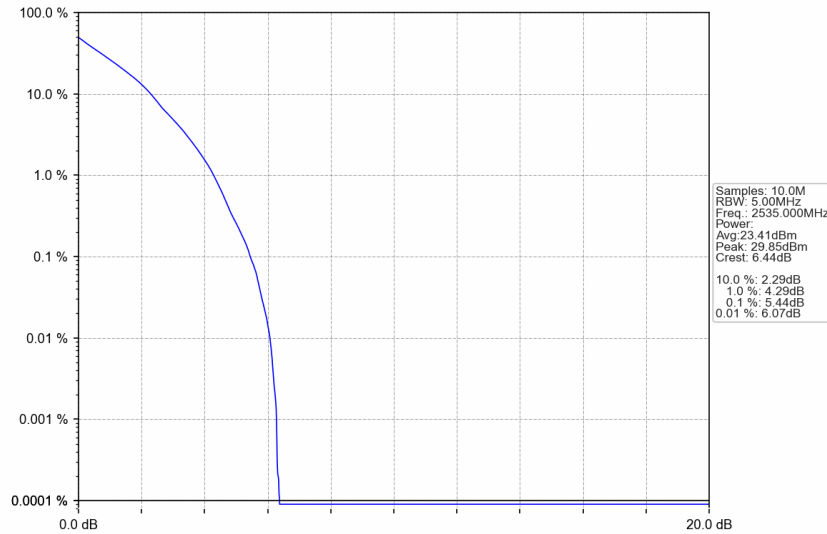
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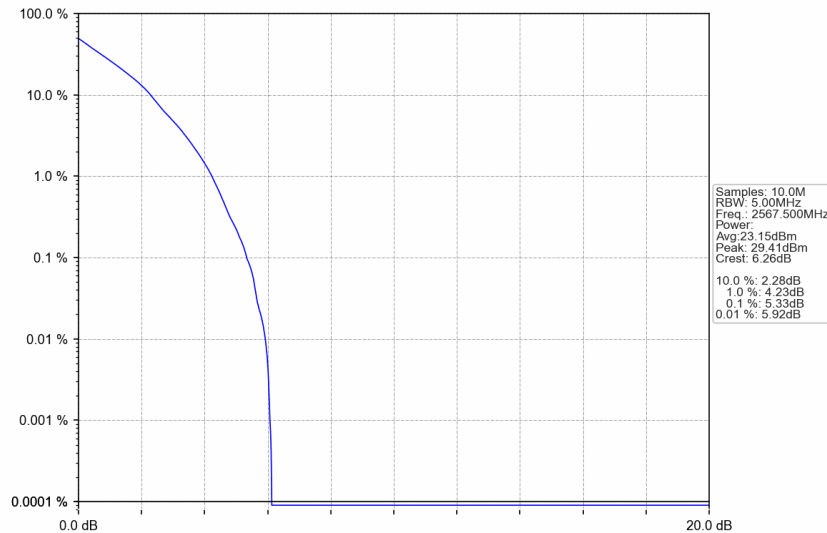
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n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2535MHz_Outer_Full



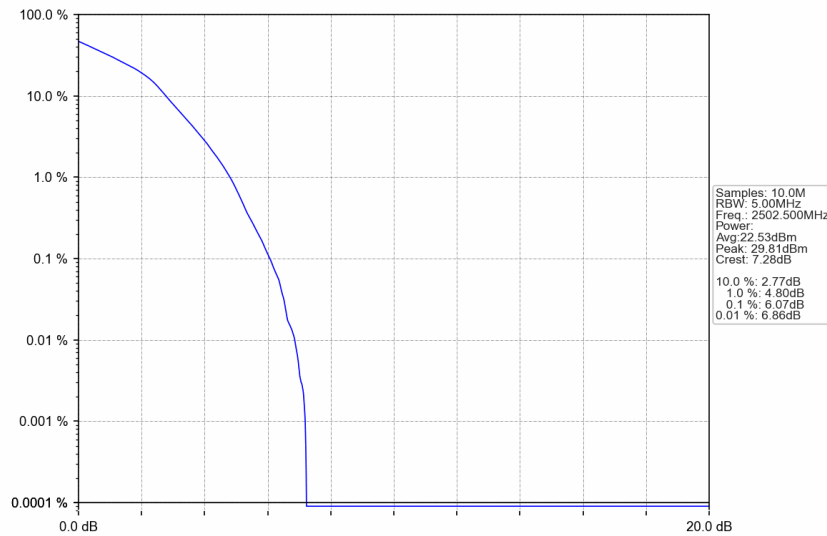
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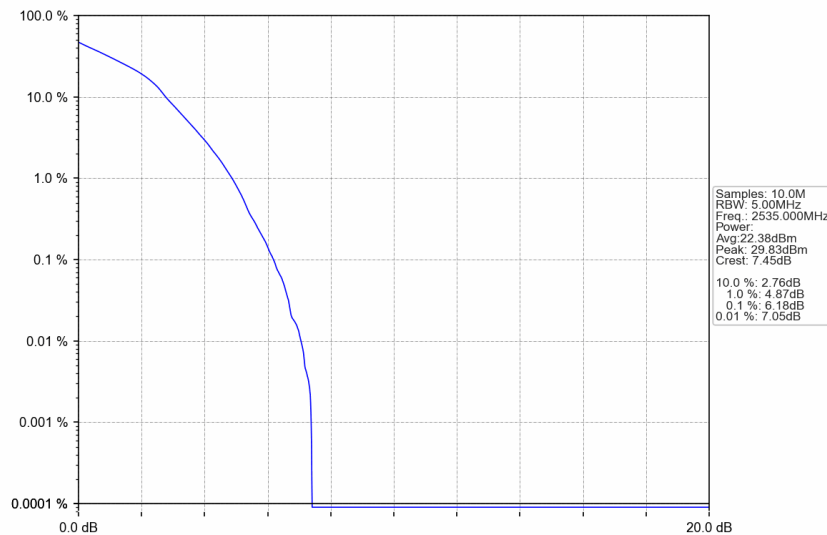
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n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 16 QAM_2502.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 16 QAM_2535MHz_Outer_Full



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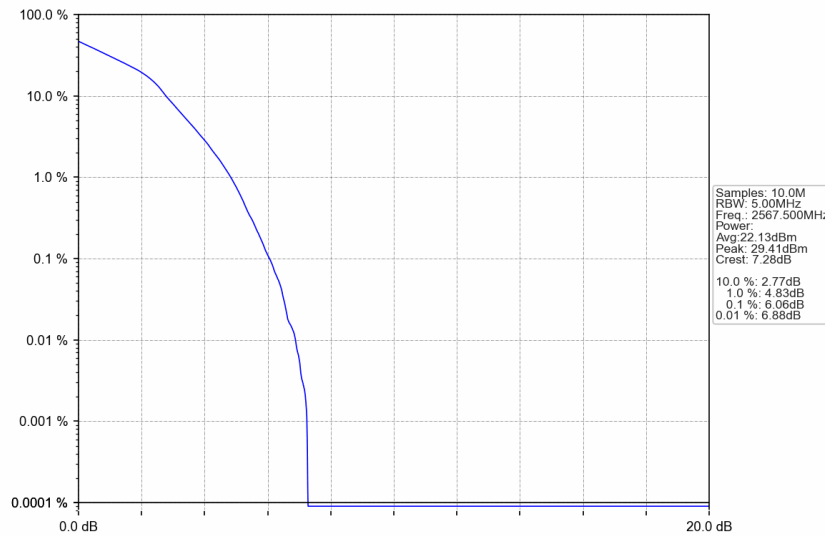
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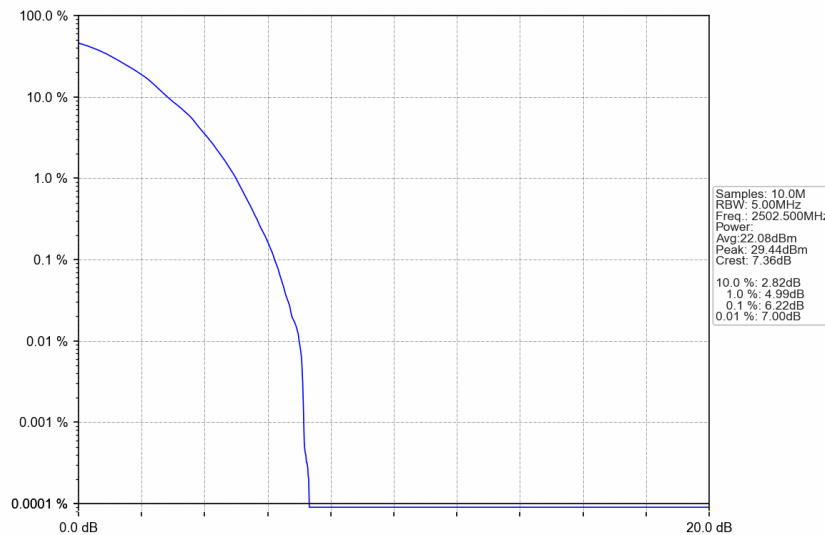
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n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 16 QAM_2567.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 64 QAM_2502.5MHz_Outer_Full



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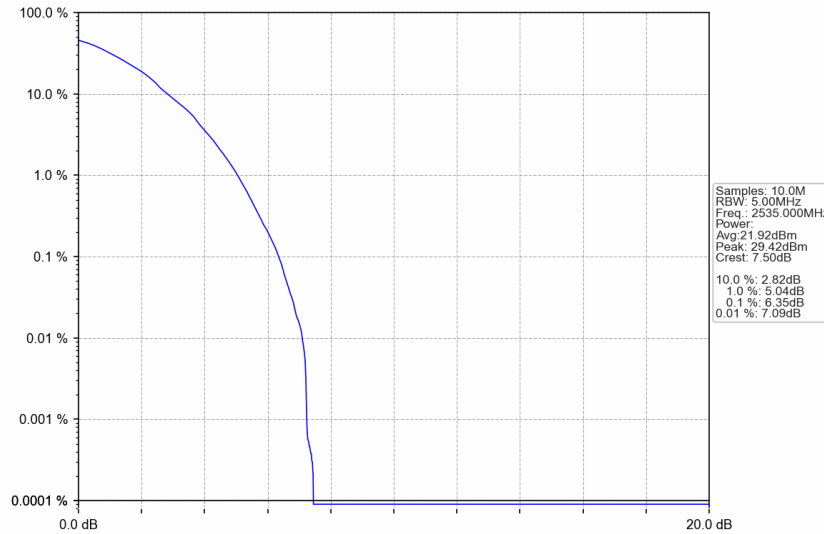
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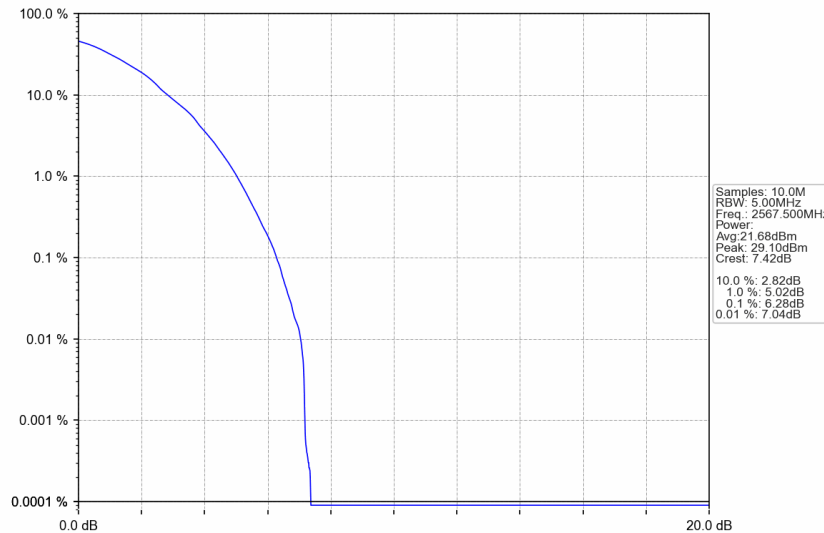
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n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 64 QAM_2535MHz_Outer_Full



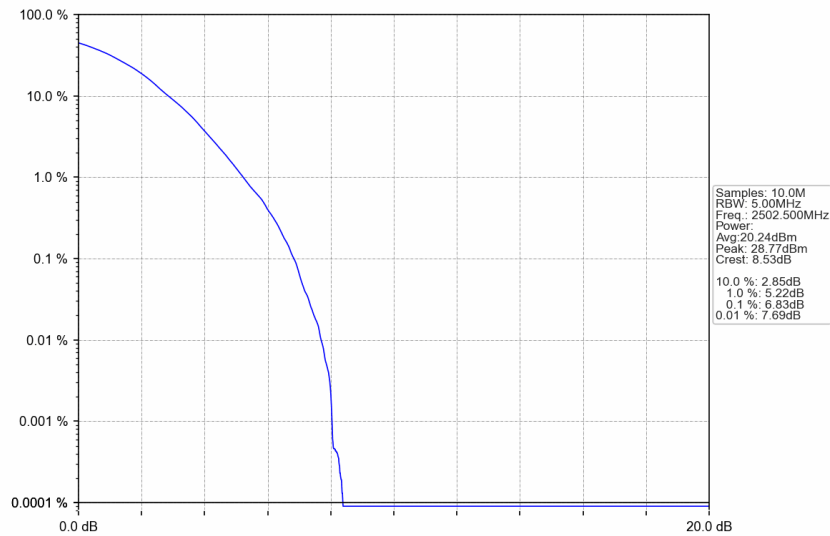
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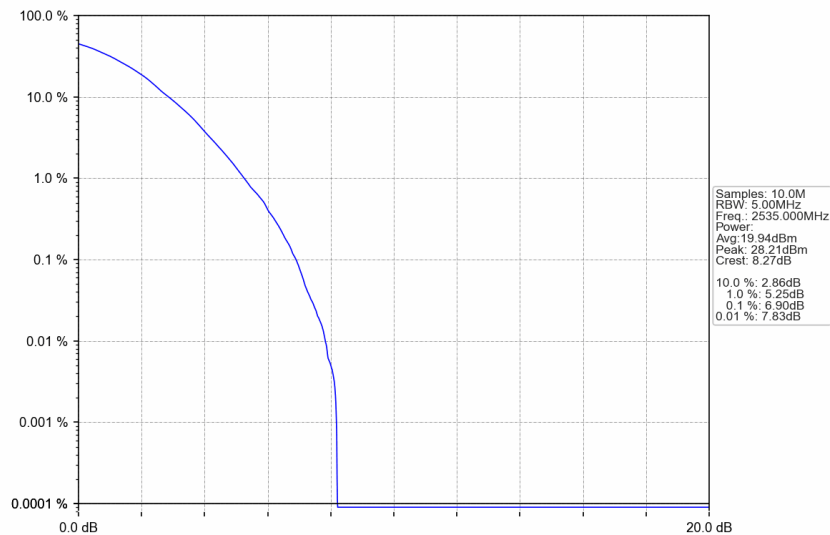
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n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 256 QAM_2502.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 256 QAM_2535MHz_Outer_Full

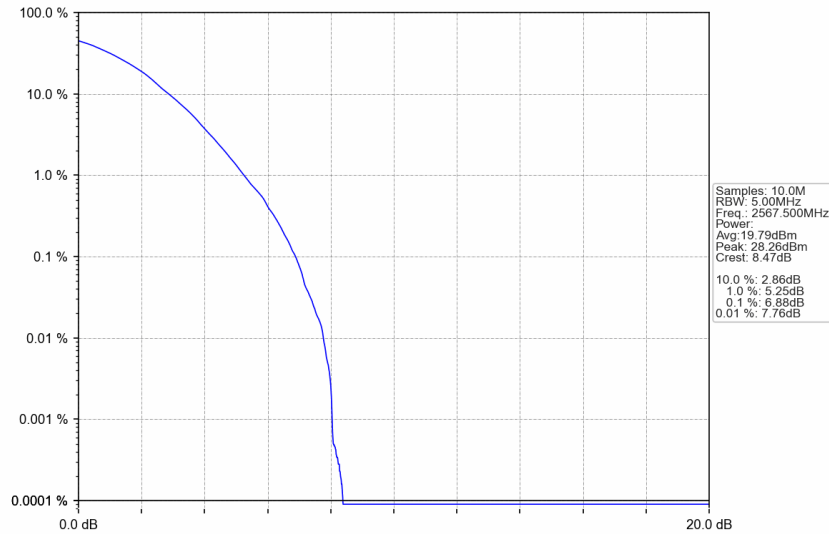


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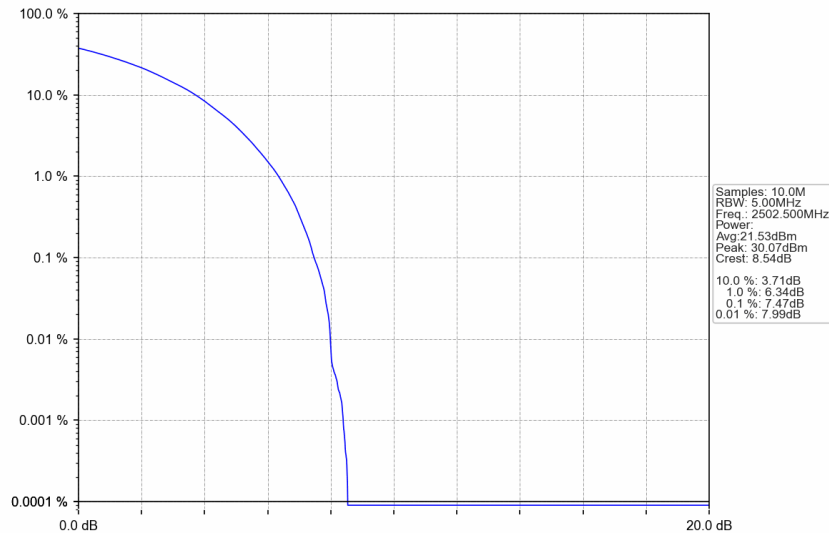
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n7_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 256 QAM_2567.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_2502.5MHz_Outer_Full



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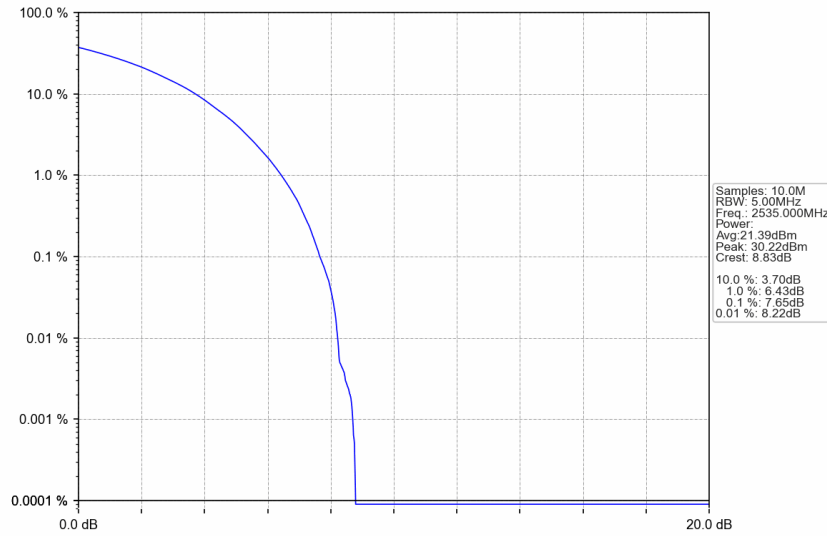
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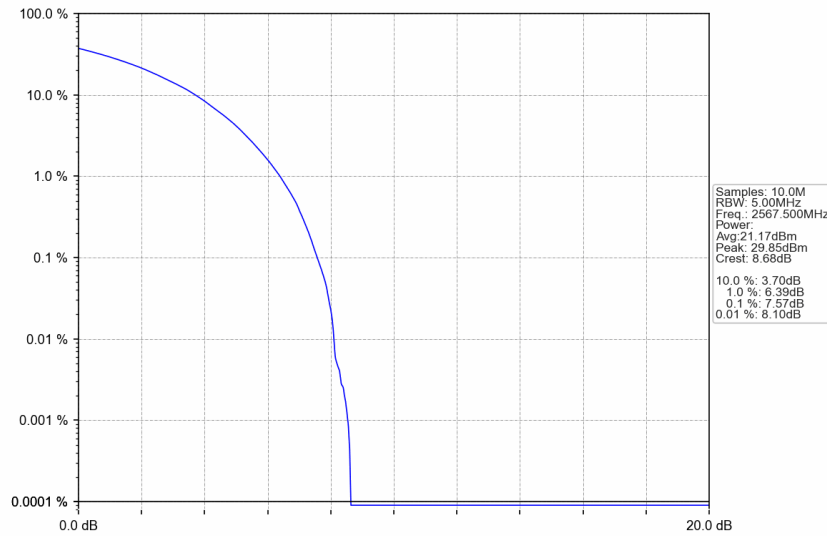
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n7_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_2535MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_2567.5MHz_Outer_Full



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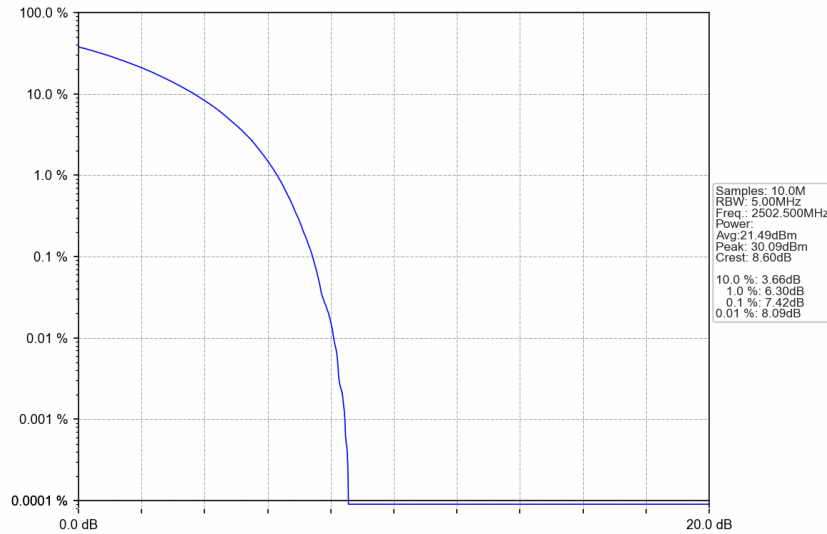
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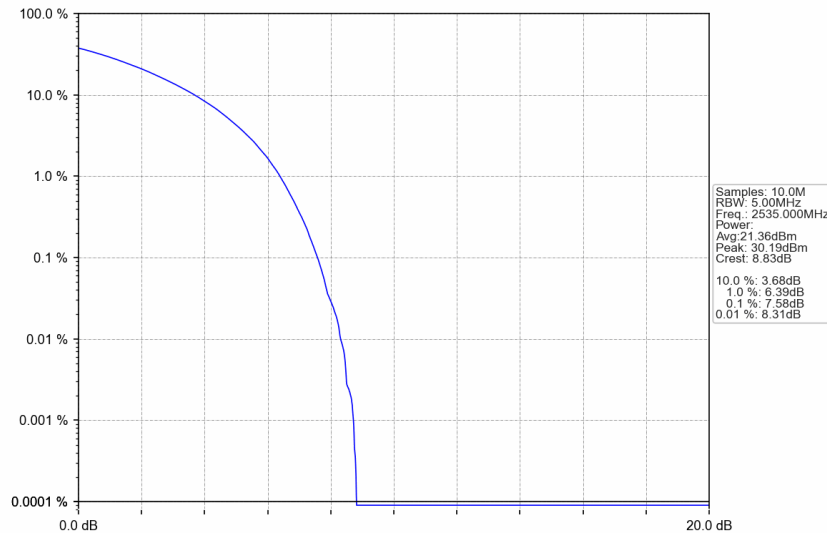
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n7_15kHz_SISO_NTNV_5MHz_CP-OFDM 16 QAM_2502.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_CP-OFDM 16 QAM_2535MHz_Outer_Full



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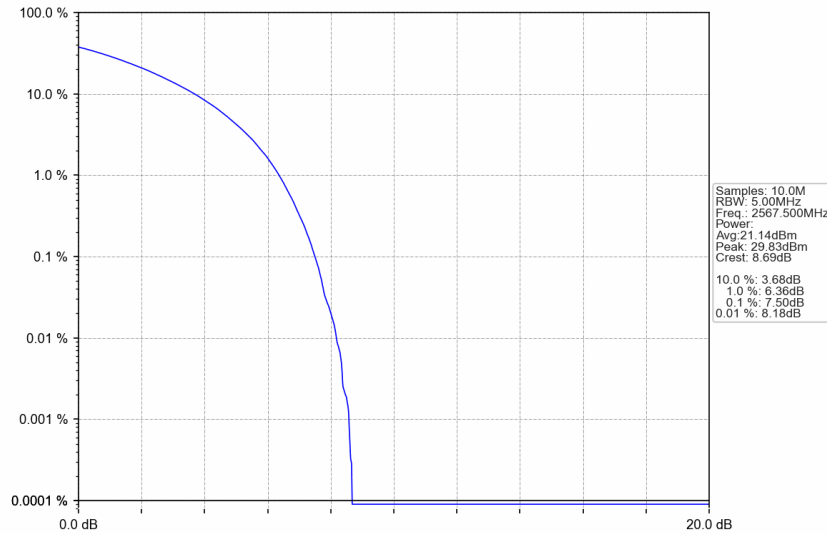
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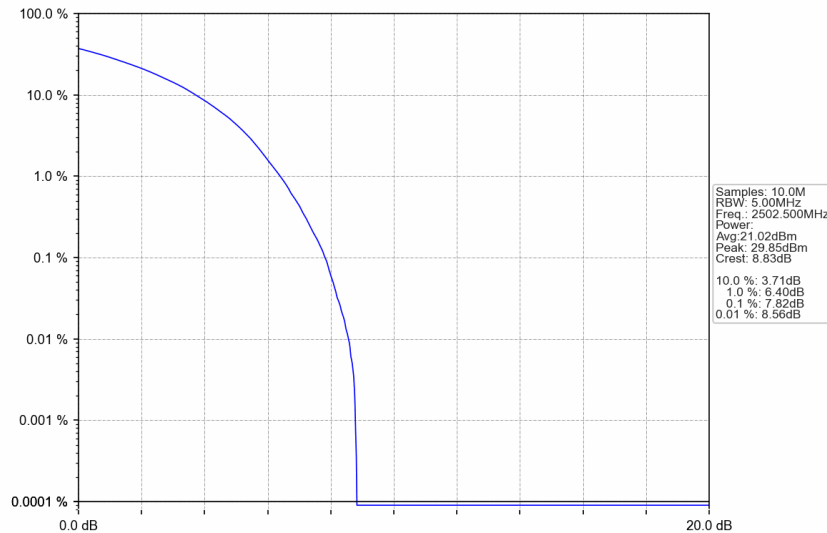
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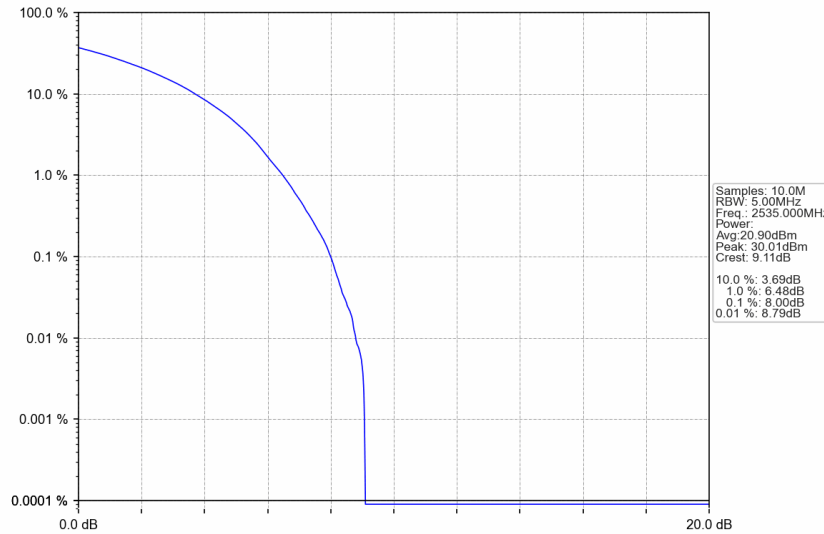


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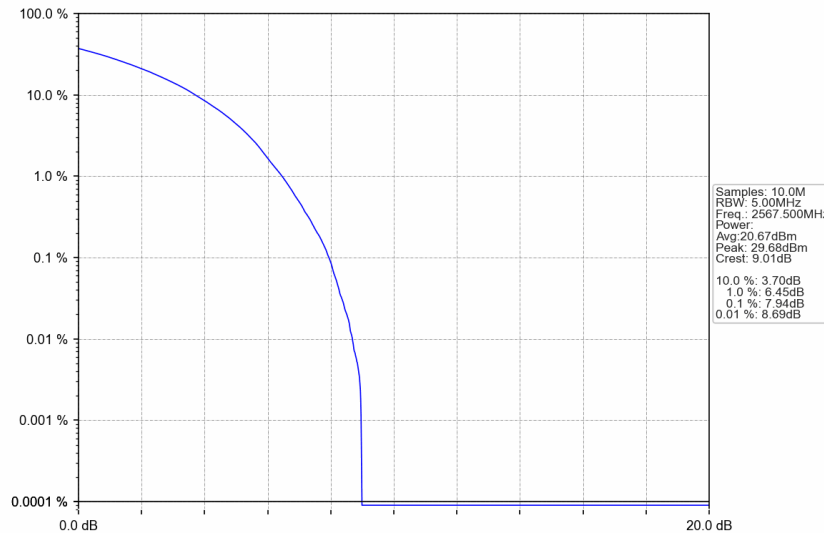
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n7_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM_2567.5MHz_Outer_Full



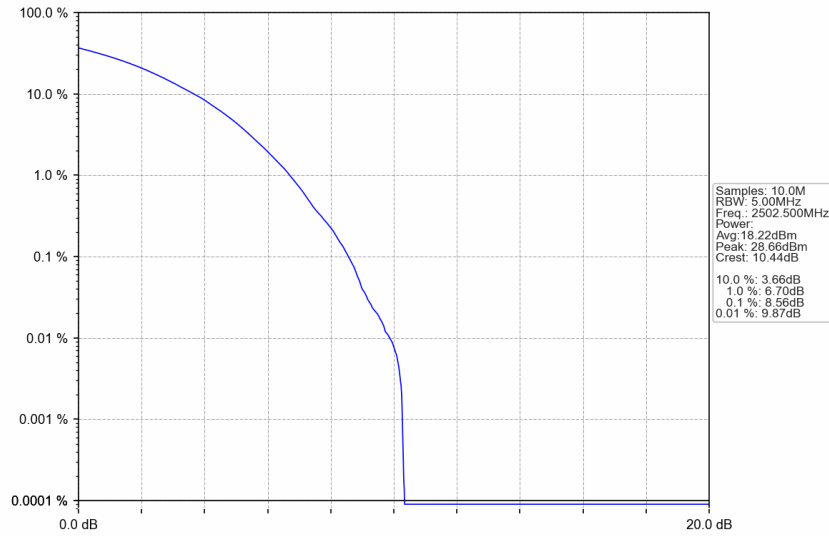
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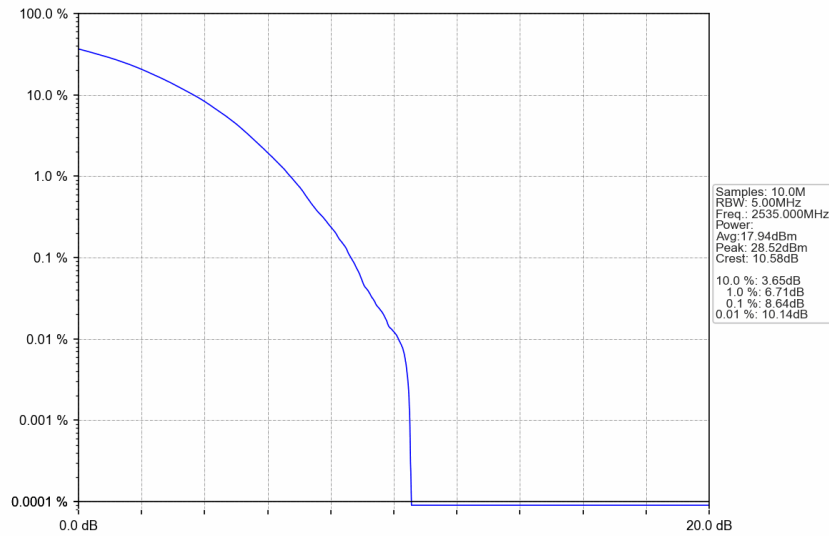
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n7_15kHz_SISO_NTNV_5MHz_CP-OFDM 256 QAM_2502.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_5MHz_CP-OFDM 256 QAM_2535MHz_Outer_Full



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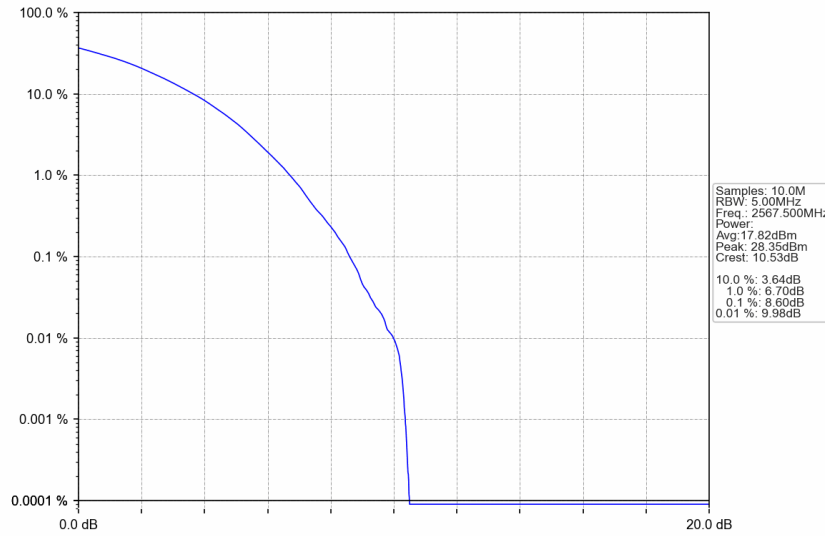


Report No.: SEWM2311000456RG02

Rev.: 01

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n7_15kHz_SISO_NTNV_5MHz_CP-OFDM 256 QAM_2567.5MHz_Outer_Full



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5.2 15k_SISO_10MHz_NTNV

5.2.1 Test Result

5G NR n7 SCS=15kHz SISO 10MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2505	Outer_Full	4.19	/	/	<=13	Pass
	2535	Outer_Full	4.20	/	/	<=13	Pass
	2565	Outer_Full	4.15	/	/	<=13	Pass
DFT-s-OFDM QPSK	2505	Outer_Full	5.19	/	/	<=13	Pass
	2535	Outer_Full	5.23	/	/	<=13	Pass
	2565	Outer_Full	5.21	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2505	Outer_Full	6.03	/	/	<=13	Pass
	2535	Outer_Full	6.10	/	/	<=13	Pass
	2565	Outer_Full	6.06	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2505	Outer_Full	6.26	/	/	<=13	Pass
	2535	Outer_Full	6.32	/	/	<=13	Pass
	2565	Outer_Full	6.31	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2505	Outer_Full	6.55	/	/	<=13	Pass
	2535	Outer_Full	6.59	/	/	<=13	Pass
	2565	Outer_Full	6.58	/	/	<=13	Pass
CP-OFDM QPSK	2505	Outer_Full	7.64	/	/	<=13	Pass
	2535	Outer_Full	7.75	/	/	<=13	Pass
	2565	Outer_Full	7.74	/	/	<=13	Pass
CP-OFDM 16 QAM	2505	Outer_Full	7.76	/	/	<=13	Pass
	2535	Outer_Full	7.89	/	/	<=13	Pass
	2565	Outer_Full	7.89	/	/	<=13	Pass
CP-OFDM 64 QAM	2505	Outer_Full	7.90	/	/	<=13	Pass
	2535	Outer_Full	8.01	/	/	<=13	Pass
	2565	Outer_Full	8.02	/	/	<=13	Pass
CP-OFDM 256 QAM	2505	Outer_Full	8.53	/	/	<=13	Pass
	2535	Outer_Full	8.56	/	/	<=13	Pass
	2565	Outer_Full	8.54	/	/	<=13	Pass

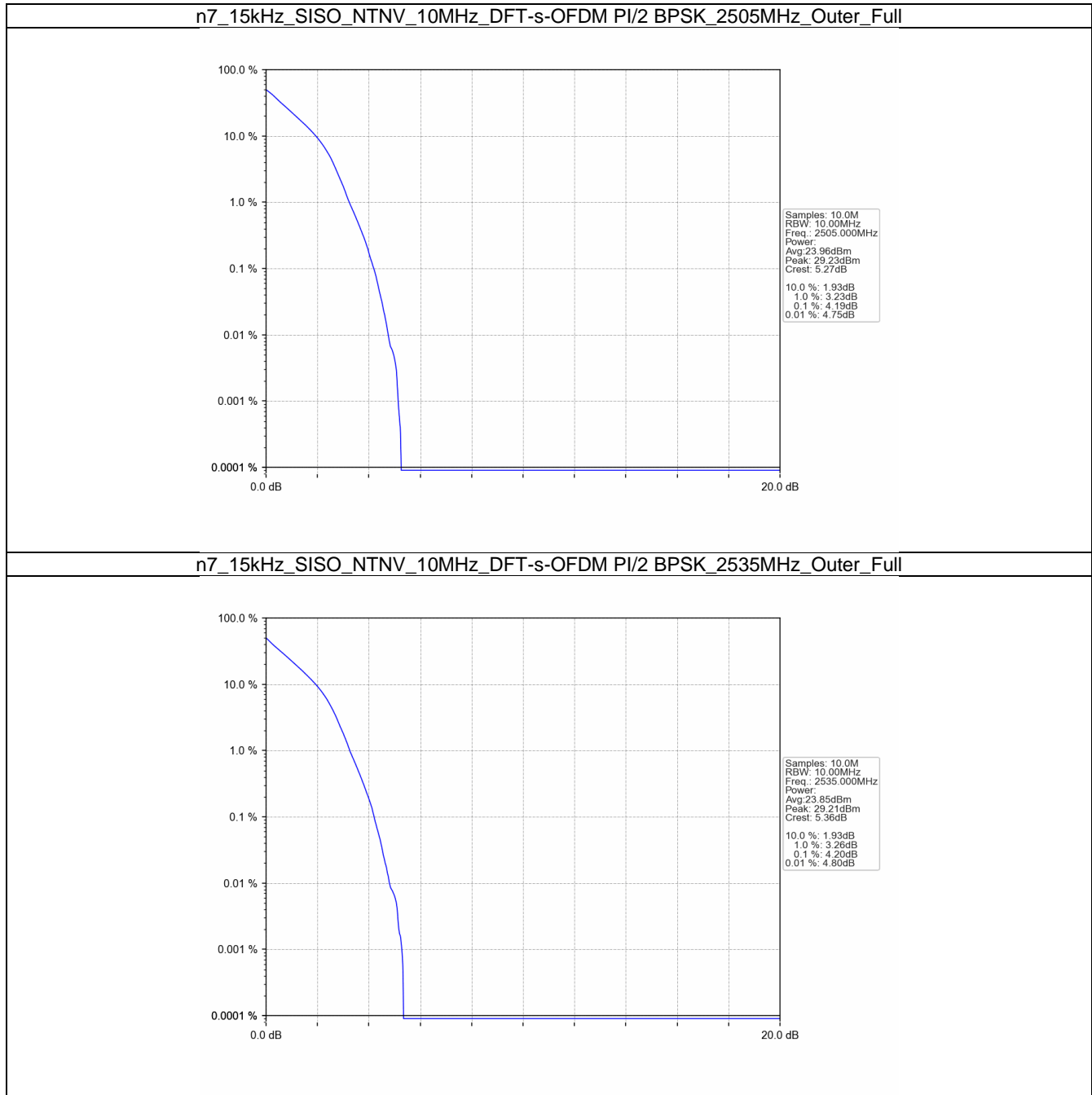


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5.2.2 Test Graph



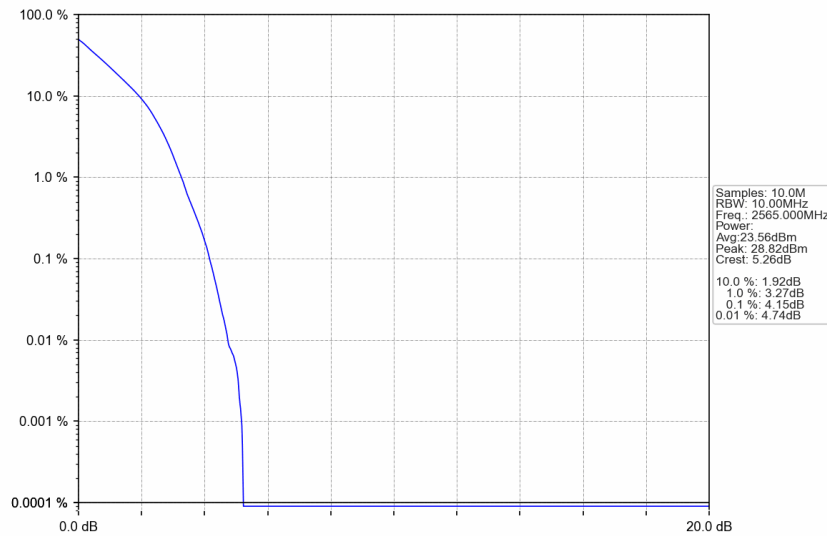
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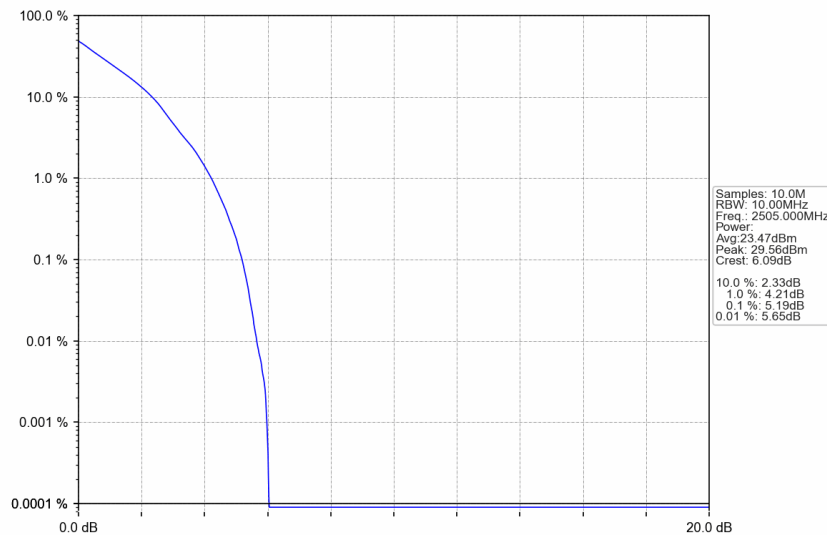
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n7_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2565MHz_Outer_Full



n7_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2505MHz_Outer_Full



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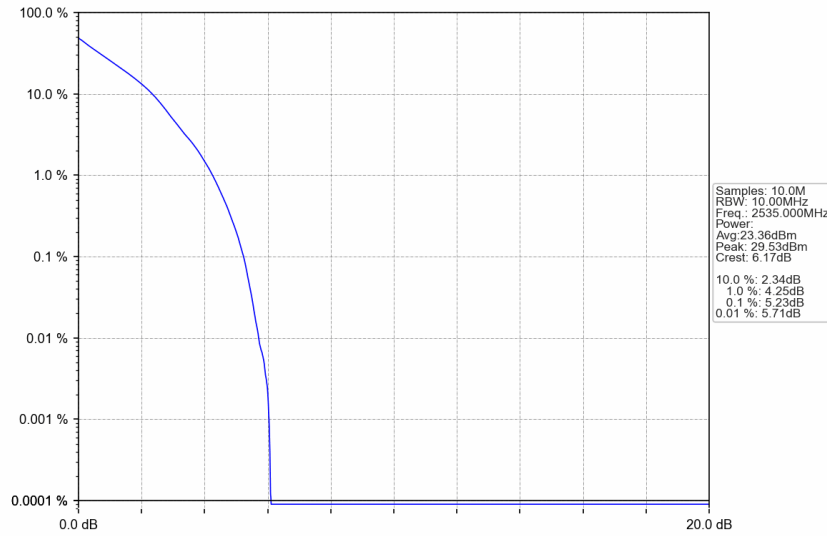
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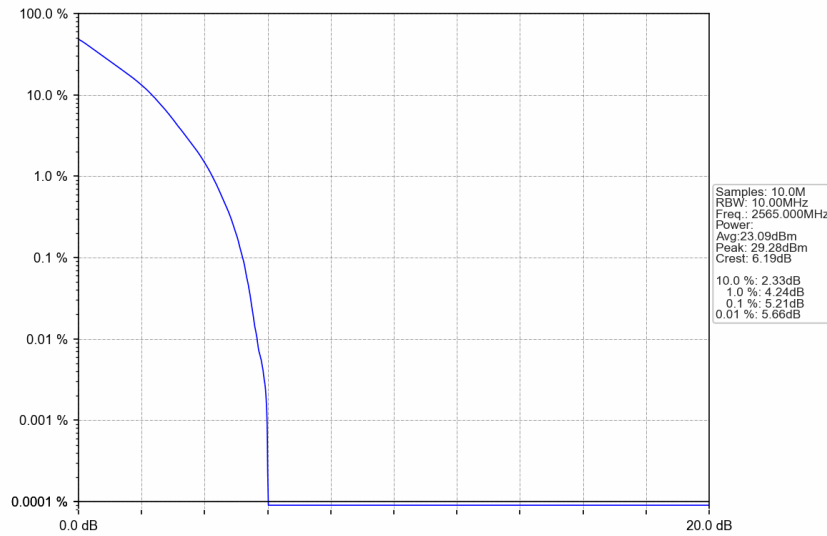
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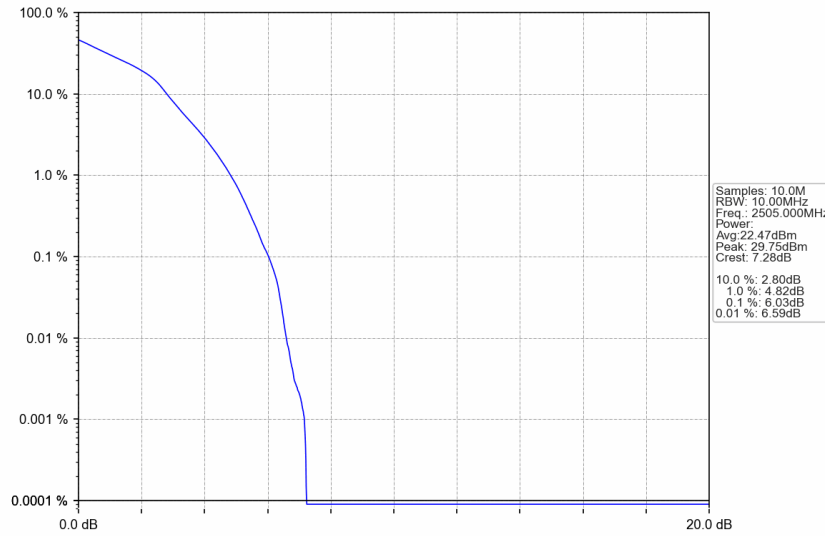
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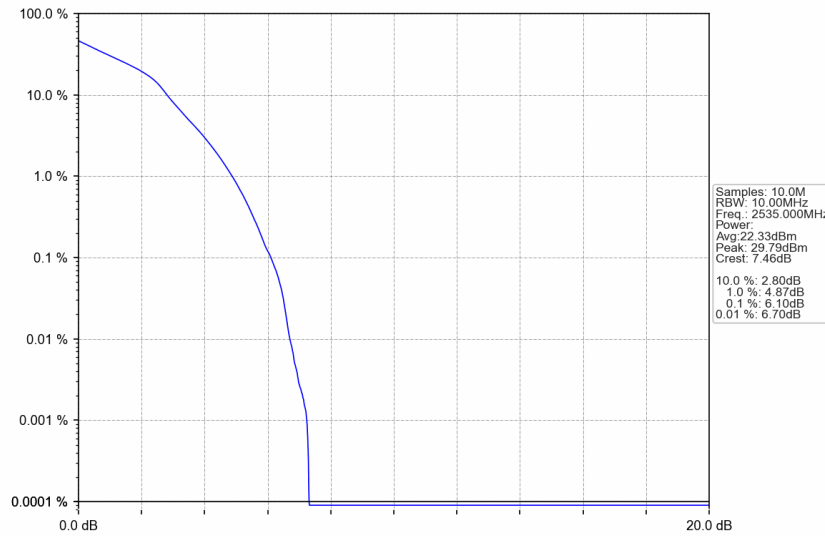
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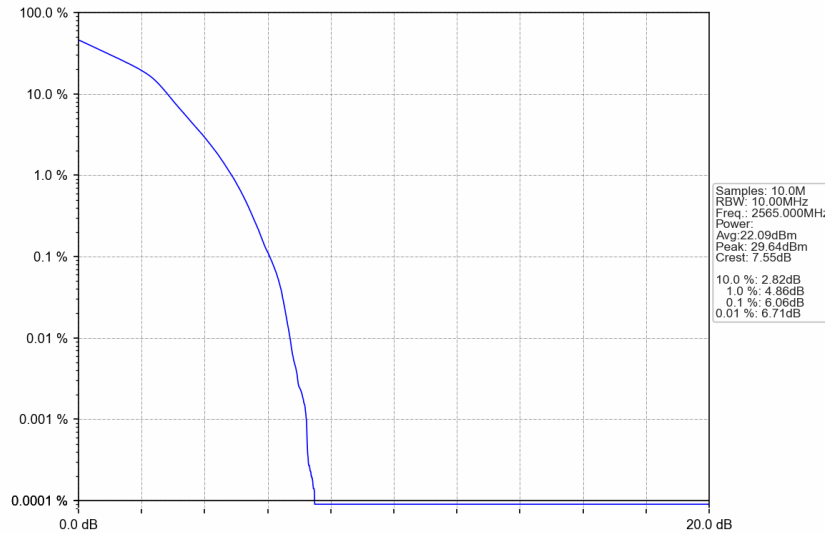


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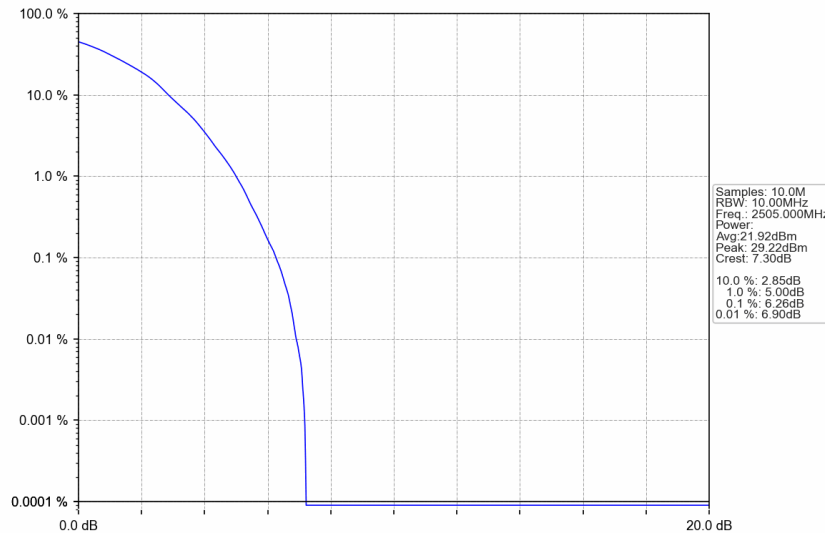
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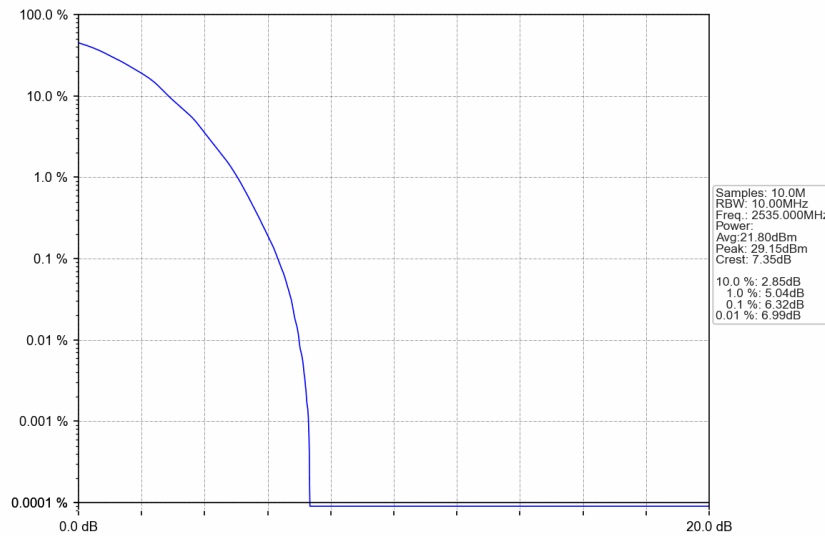
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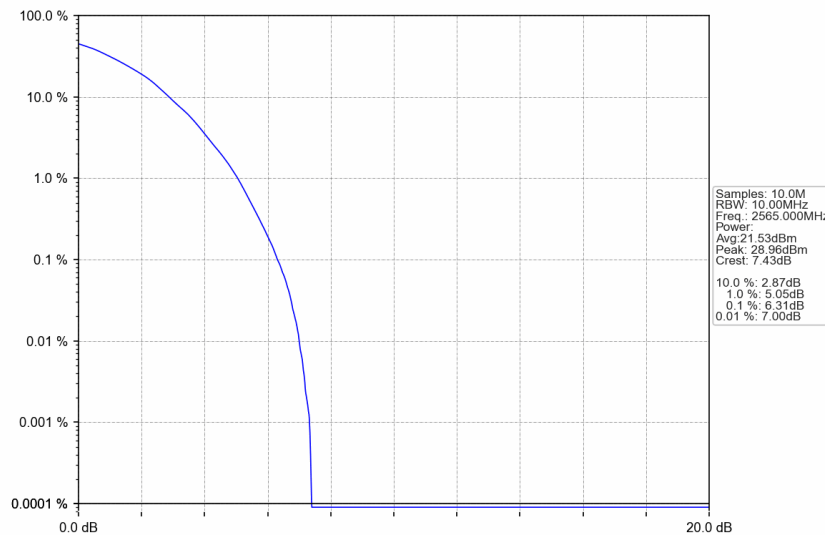
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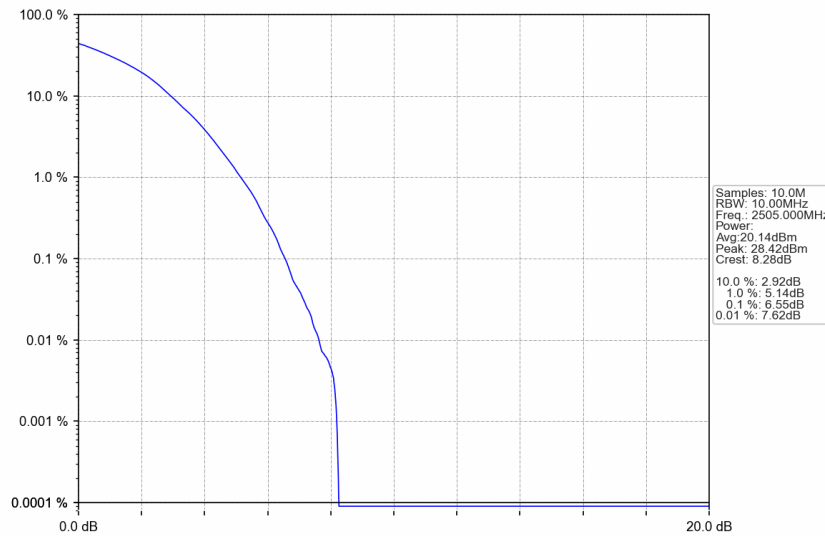


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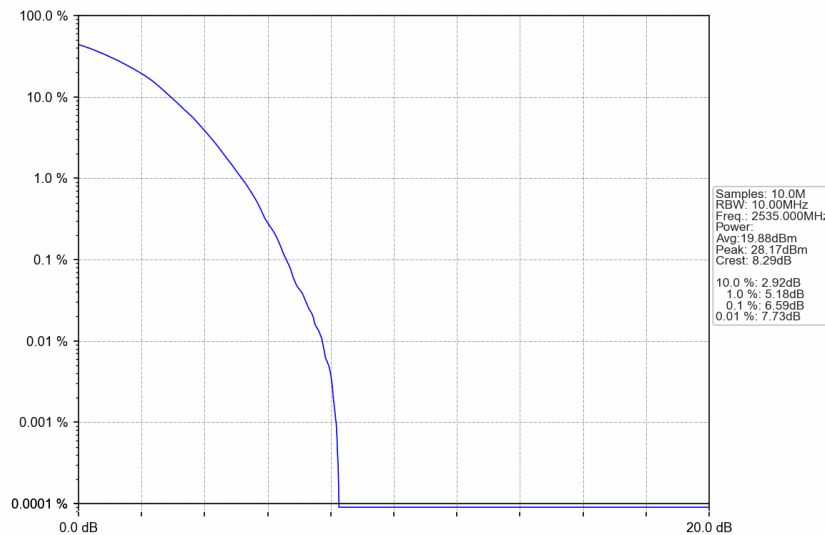
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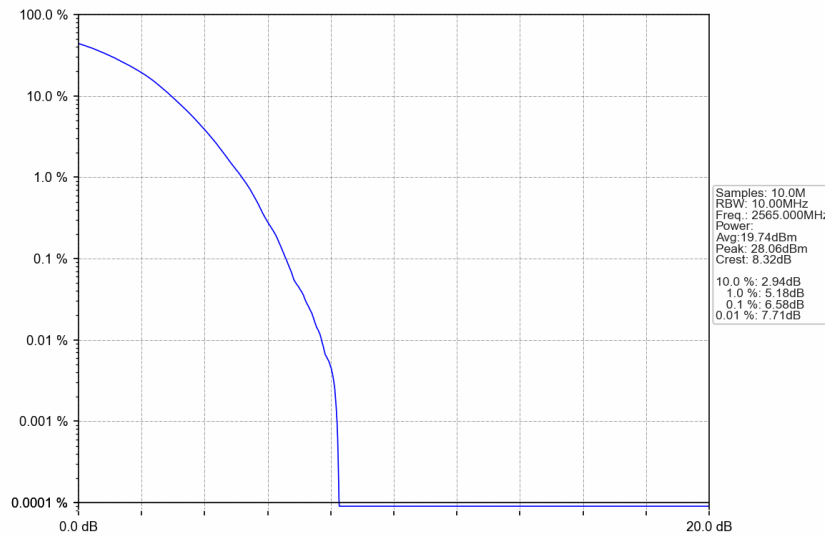


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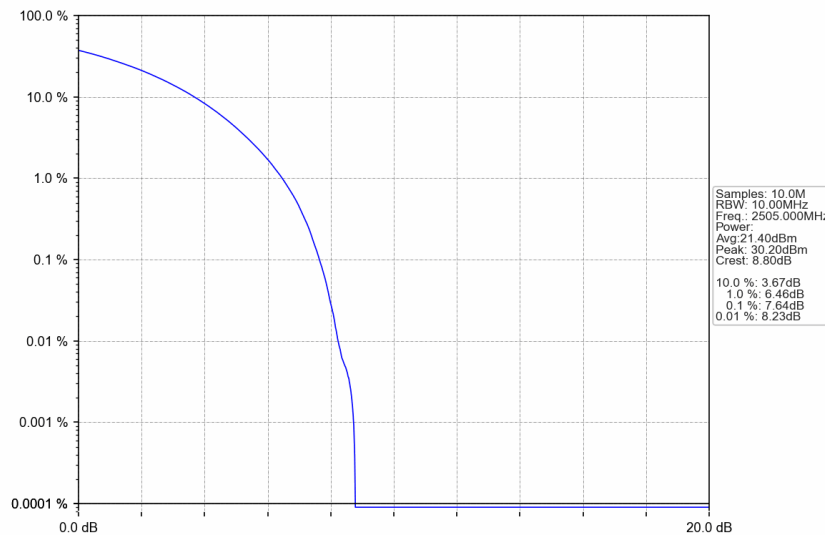
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n7_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_2565MHz_Outer_Full



n7_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2505MHz_Outer_Full



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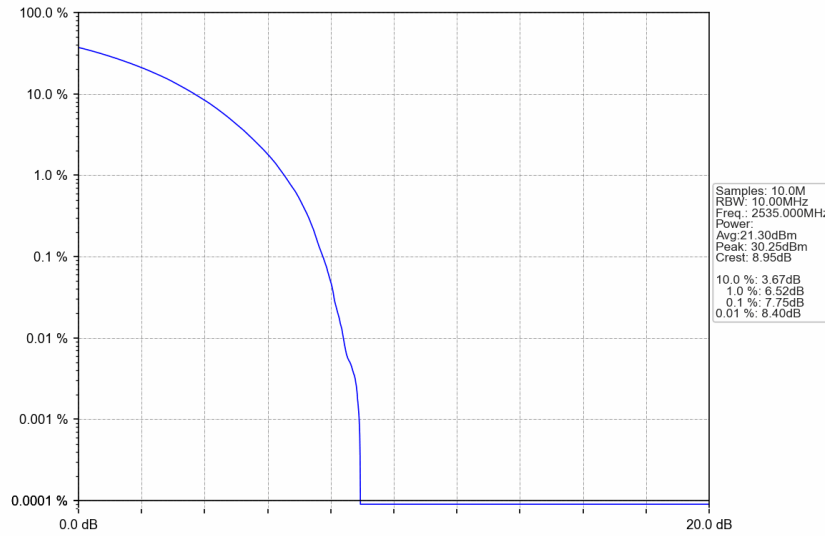
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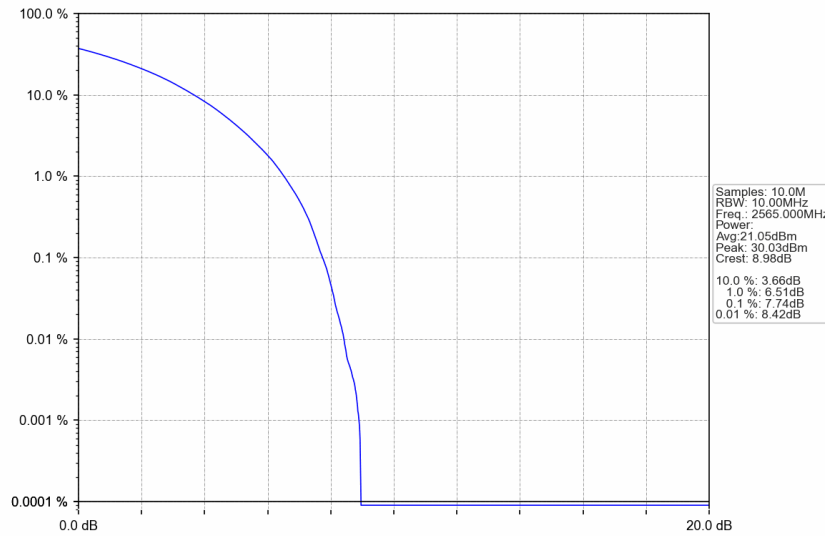
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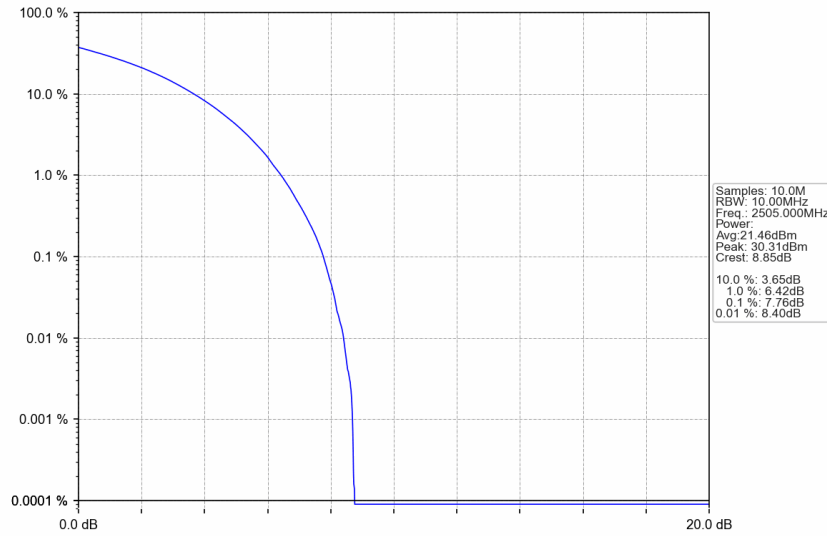


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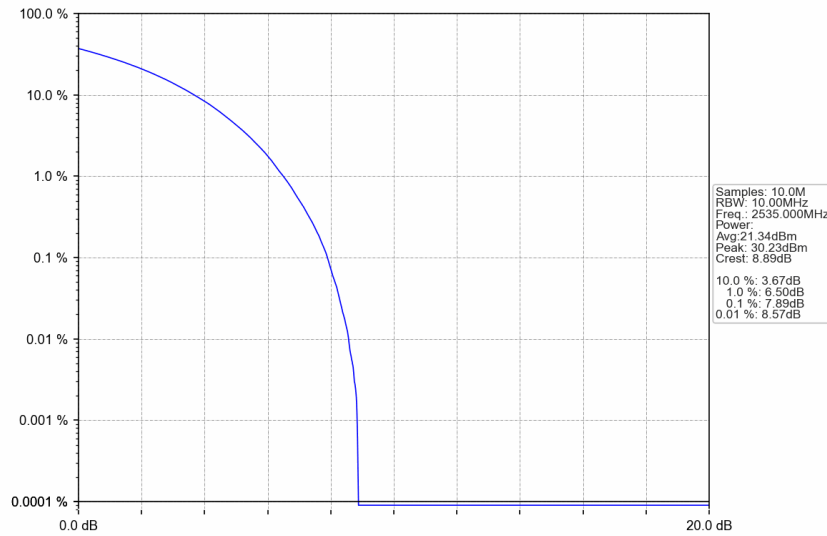
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n7_15kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_2505MHz_Outer_Full



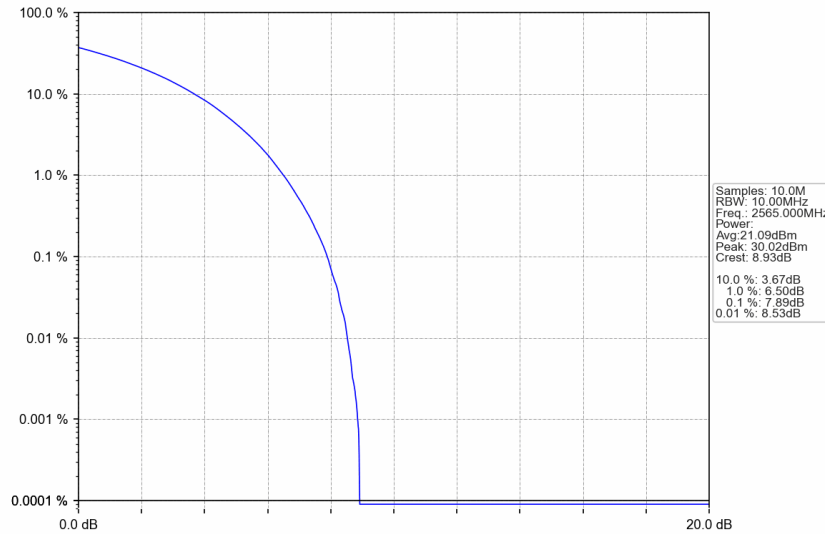
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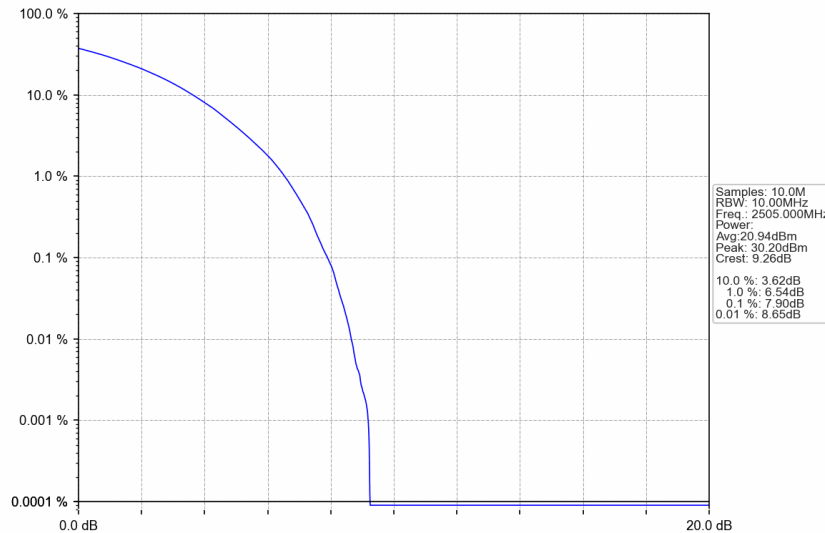
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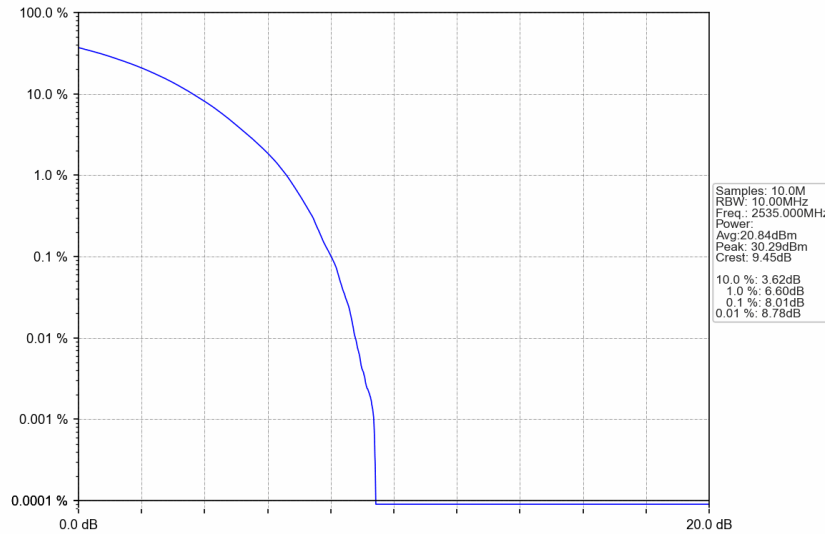
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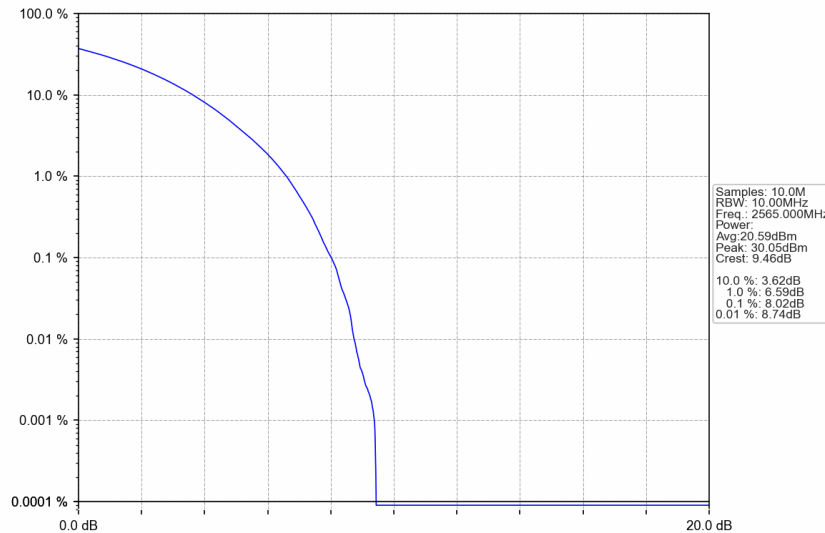
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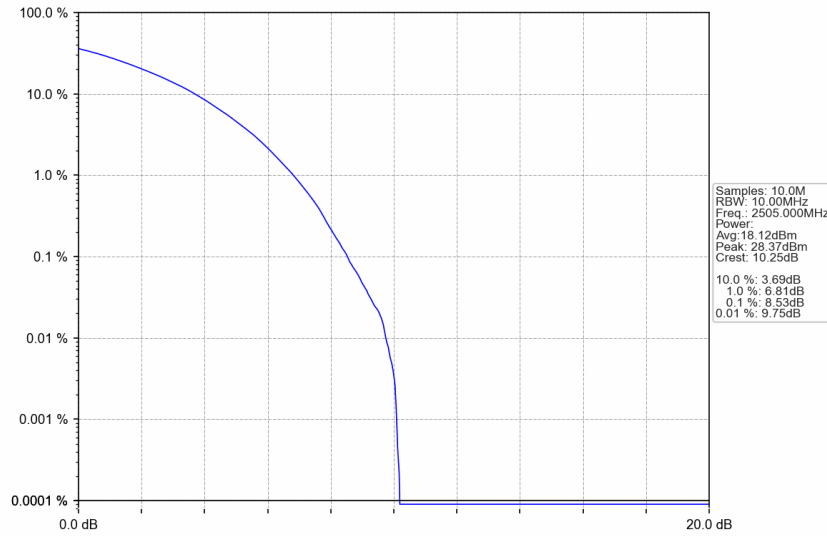


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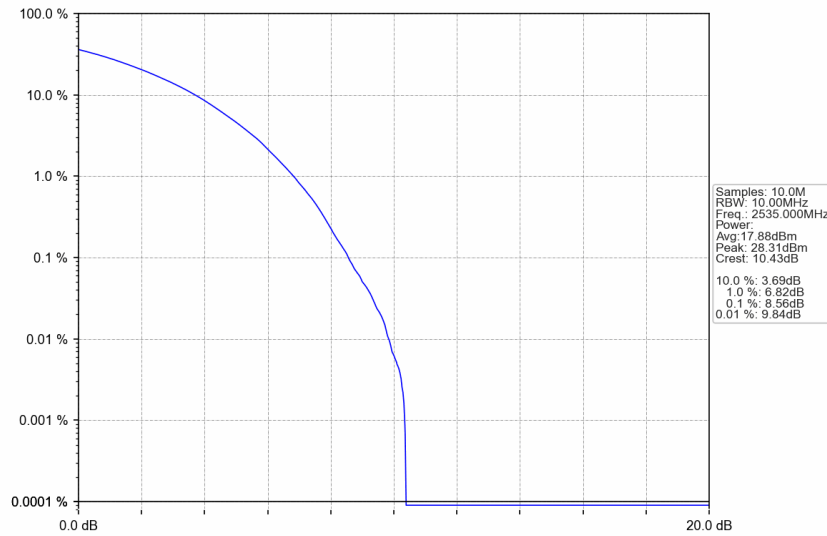
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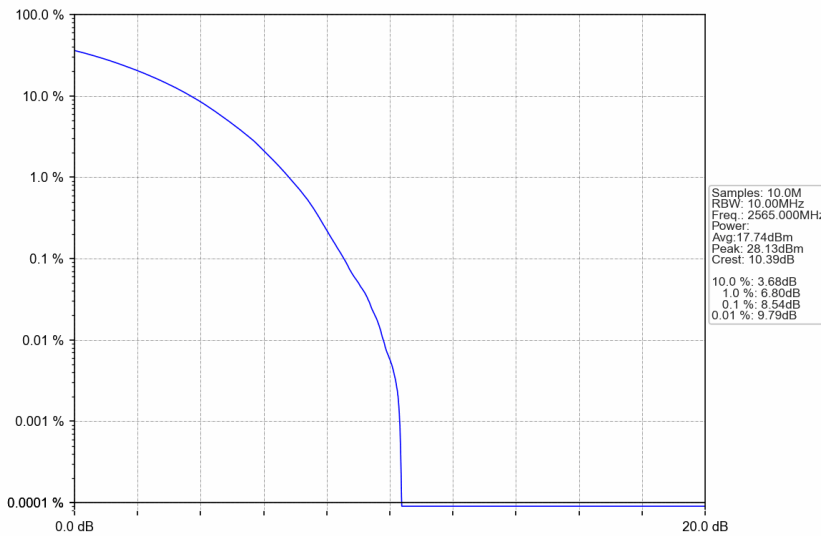


Report No.: SEWM2311000456RG02

Rev.: 01

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5.3 15k_SISO_15MHz_NTNV

5.3.1 Test Result

5G NR n7 SCS=15kHz SISO 15MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	2507.5	Outer_Full	4.35	/	/	<=13	Pass
	2535	Outer_Full	4.19	/	/	<=13	Pass
	2562.5	Outer_Full	4.21	/	/	<=13	Pass
DFT-s-OFDM QPSK	2507.5	Outer_Full	5.17	/	/	<=13	Pass
	2535	Outer_Full	5.17	/	/	<=13	Pass
	2562.5	Outer_Full	5.18	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	2507.5	Outer_Full	5.98	/	/	<=13	Pass
	2535	Outer_Full	6.00	/	/	<=13	Pass
	2562.5	Outer_Full	6.03	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	2507.5	Outer_Full	6.23	/	/	<=13	Pass
	2535	Outer_Full	6.30	/	/	<=13	Pass
	2562.5	Outer_Full	6.33	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	2507.5	Outer_Full	6.51	/	/	<=13	Pass
	2535	Outer_Full	6.55	/	/	<=13	Pass
	2562.5	Outer_Full	6.54	/	/	<=13	Pass
CP-OFDM QPSK	2507.5	Outer_Full	7.62	/	/	<=13	Pass
	2535	Outer_Full	7.69	/	/	<=13	Pass
	2562.5	Outer_Full	7.73	/	/	<=13	Pass
CP-OFDM 16 QAM	2507.5	Outer_Full	7.70	/	/	<=13	Pass
	2535	Outer_Full	7.75	/	/	<=13	Pass
	2562.5	Outer_Full	7.80	/	/	<=13	Pass
CP-OFDM 64 QAM	2507.5	Outer_Full	7.77	/	/	<=13	Pass
	2535	Outer_Full	7.82	/	/	<=13	Pass
	2562.5	Outer_Full	7.84	/	/	<=13	Pass
CP-OFDM 256 QAM	2507.5	Outer_Full	8.49	/	/	<=13	Pass
	2535	Outer_Full	8.53	/	/	<=13	Pass
	2562.5	Outer_Full	8.53	/	/	<=13	Pass

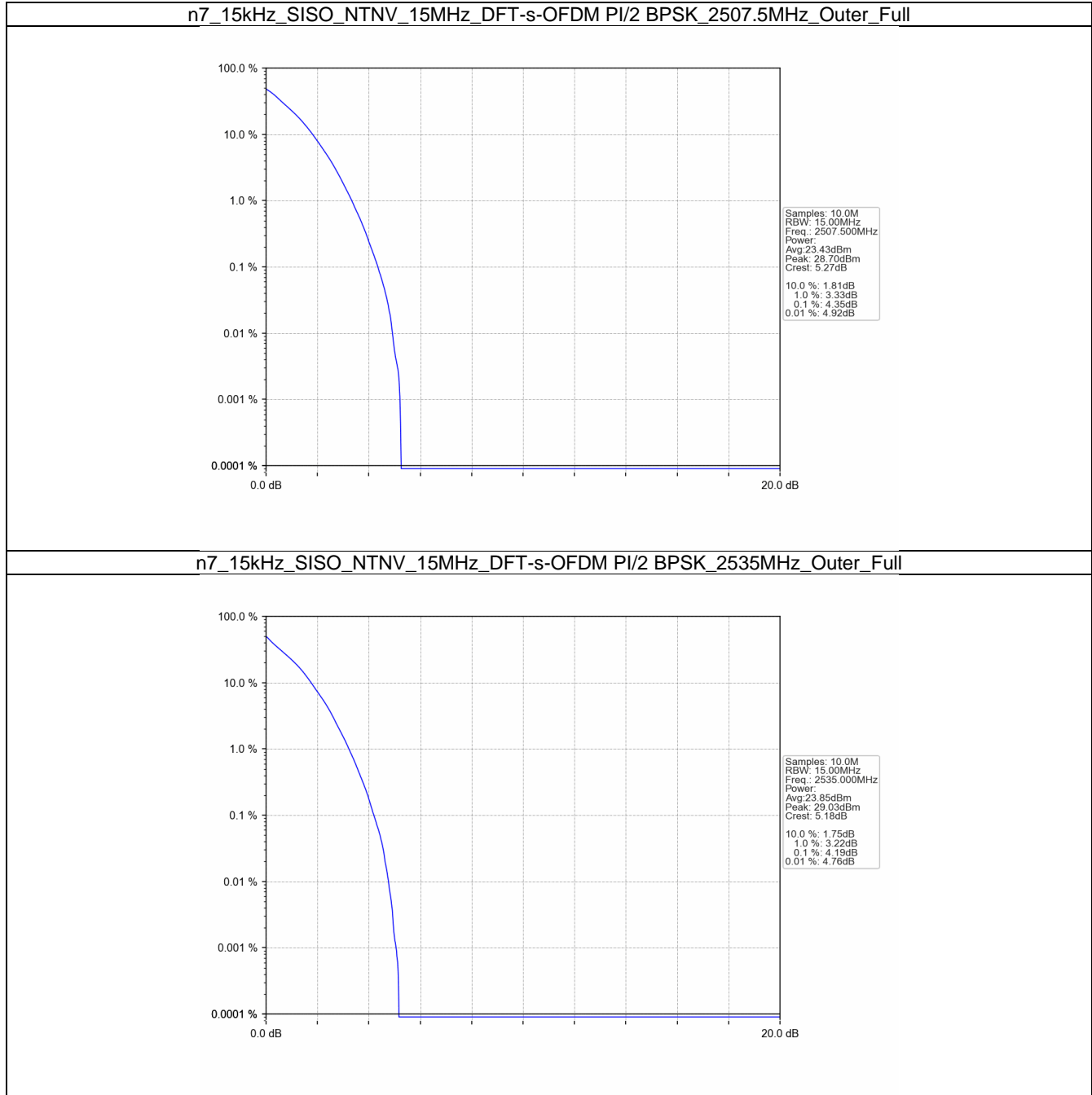


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5.3.2 Test Graph

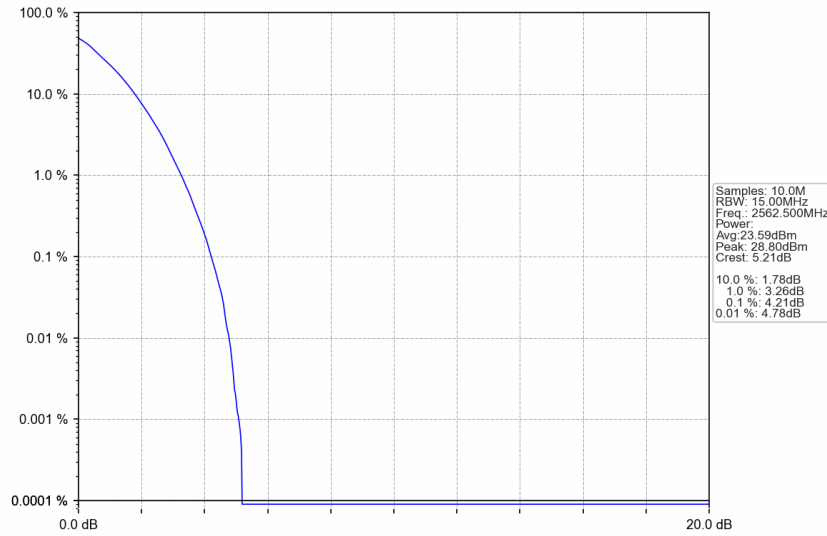


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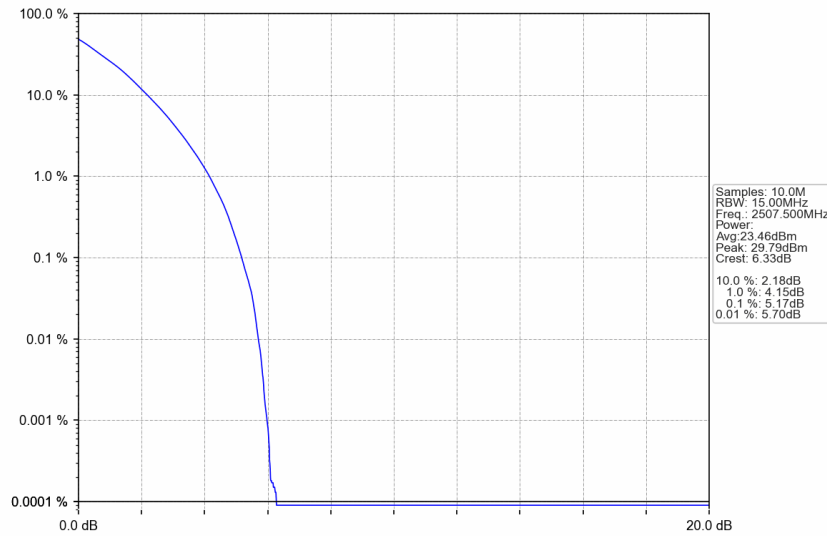
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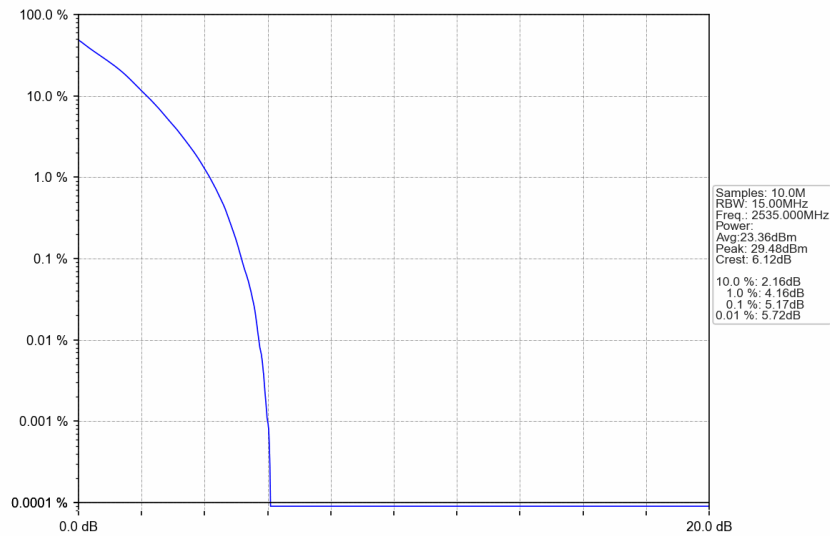
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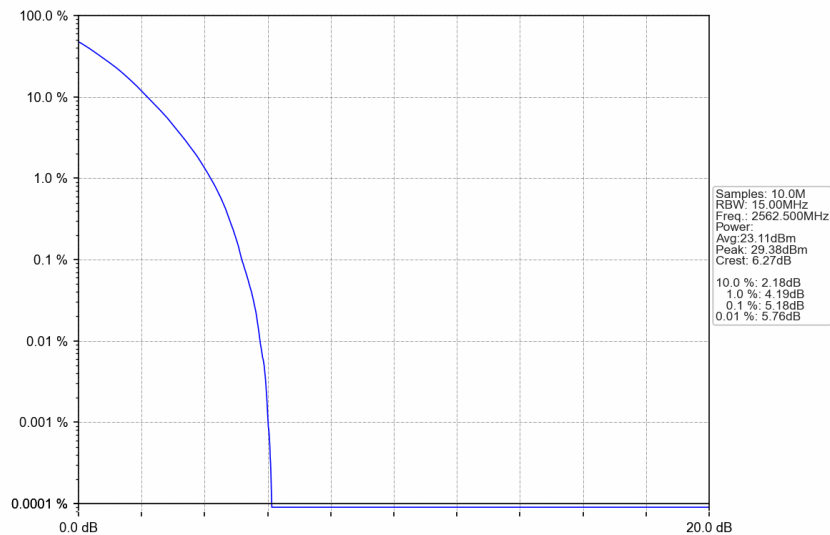
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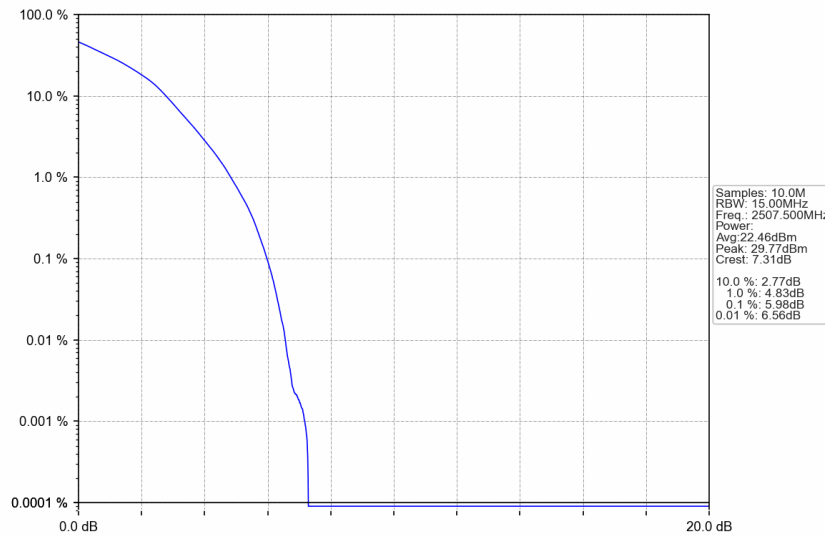
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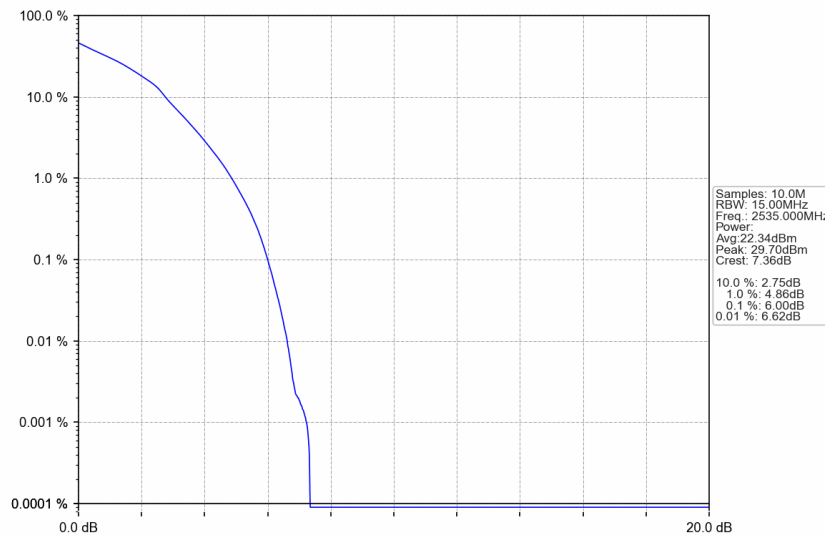
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n7_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_2507.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_2535MHz_Outer_Full



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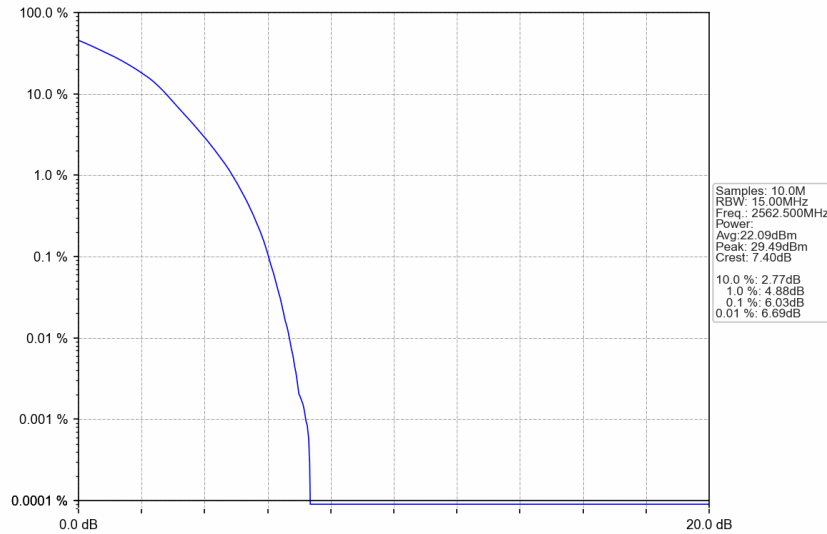
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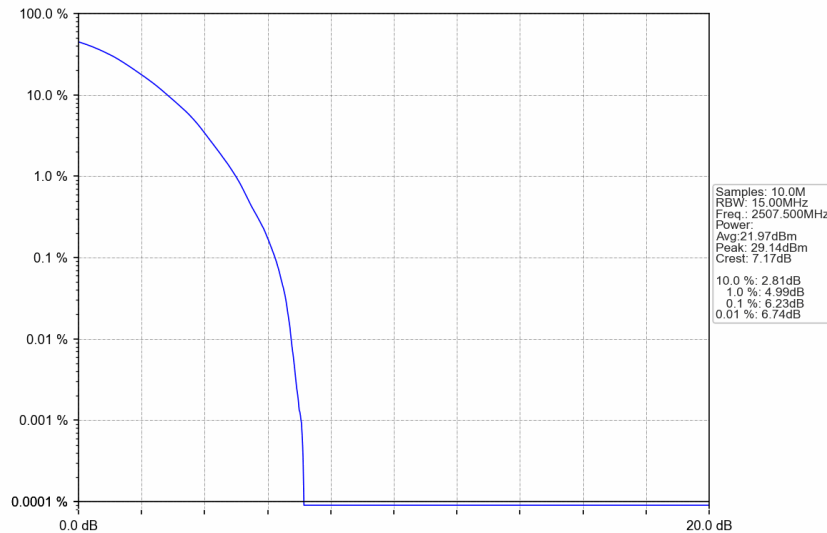
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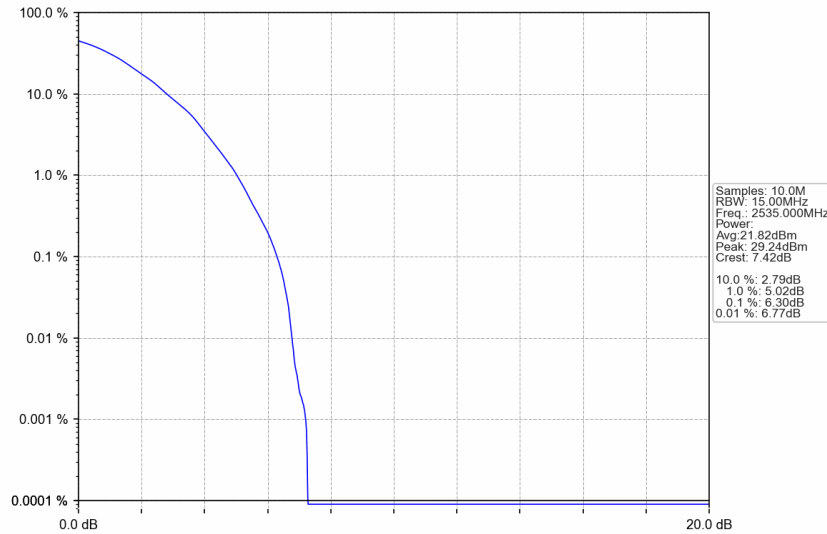
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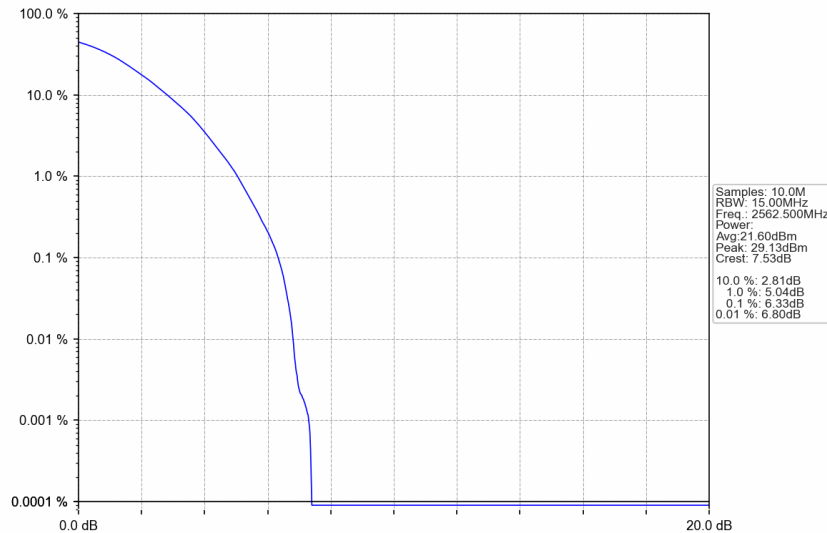
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n7_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_2535MHz_Outer_Full



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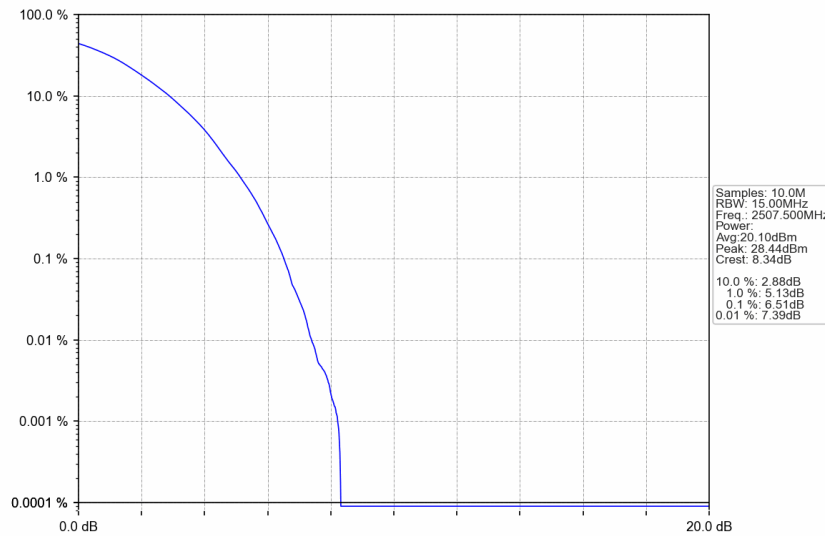
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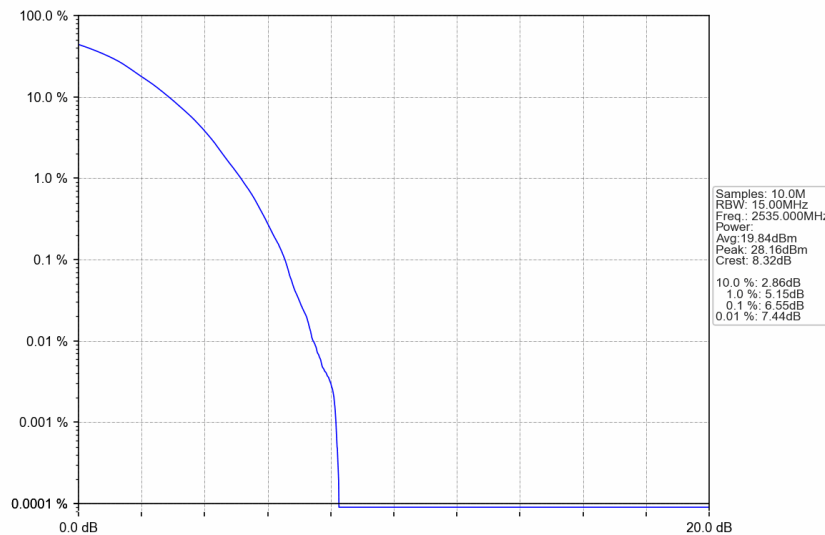
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n7_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_2535MHz_Outer_Full



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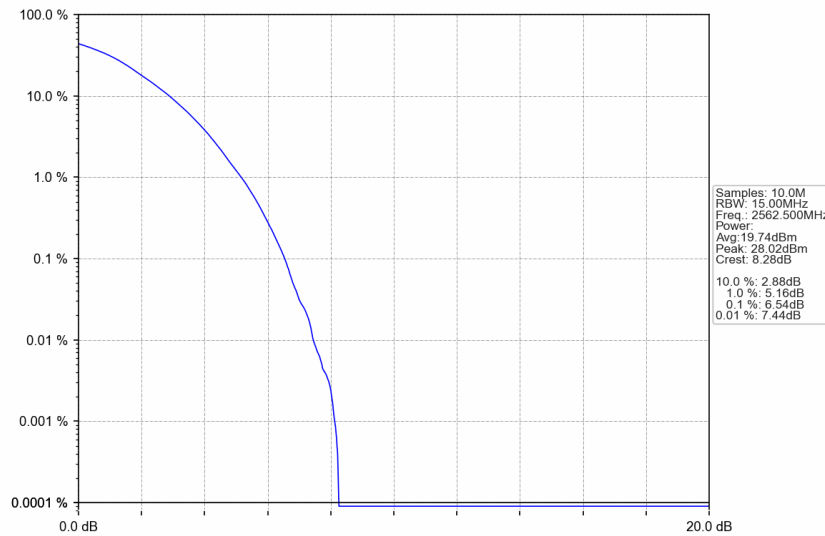


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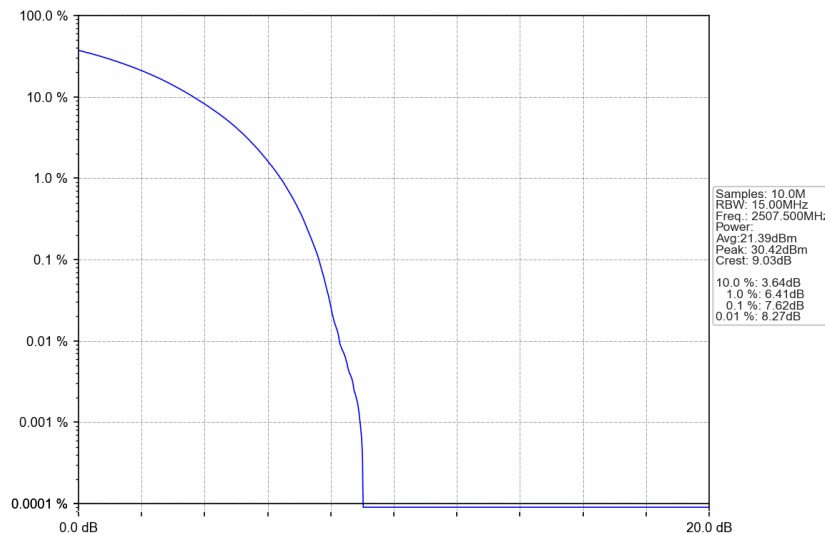
Rev.: 01

Page: 379 of 985

n7_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_2562.5MHz_Outer_Full



n7_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_2507.5MHz_Outer_Full



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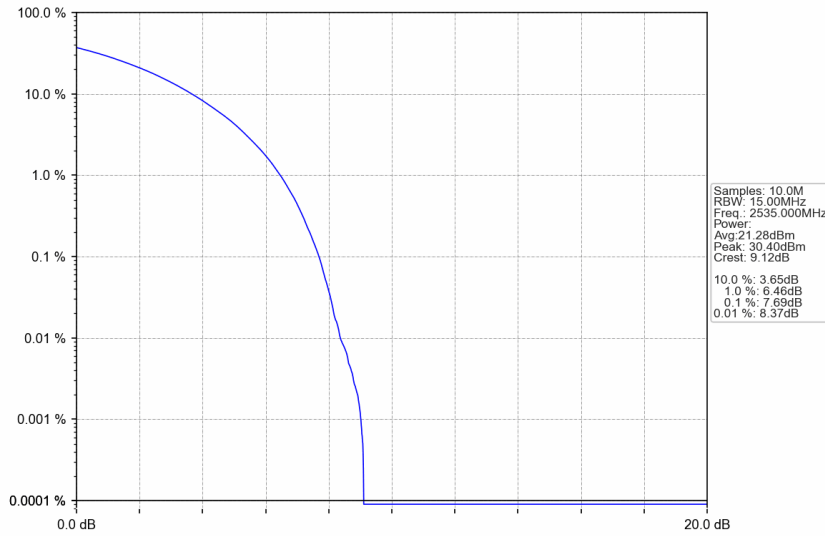
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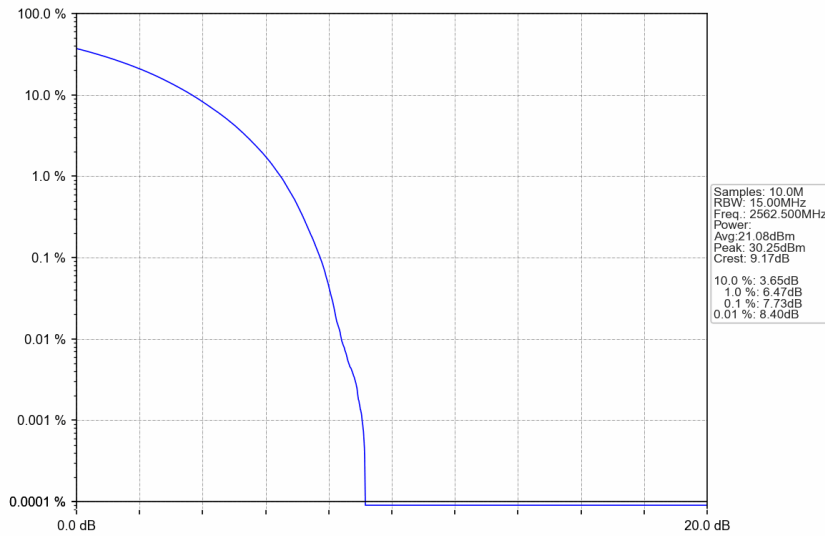
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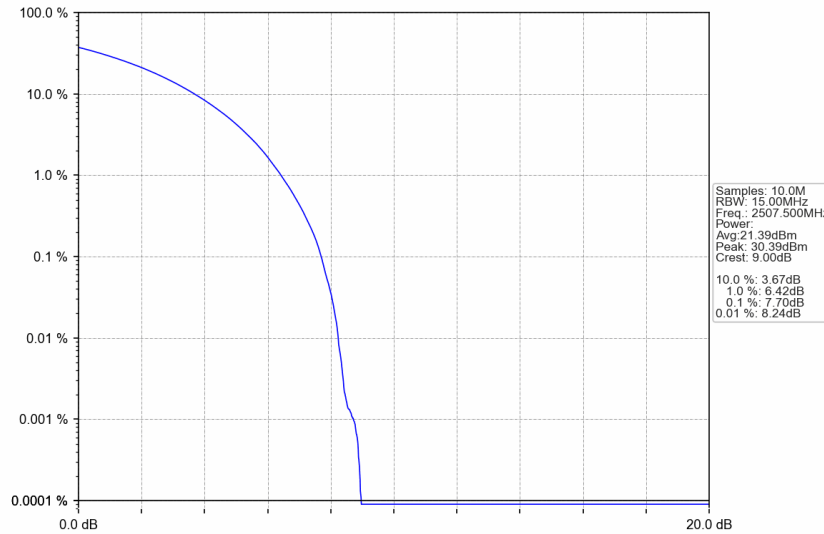
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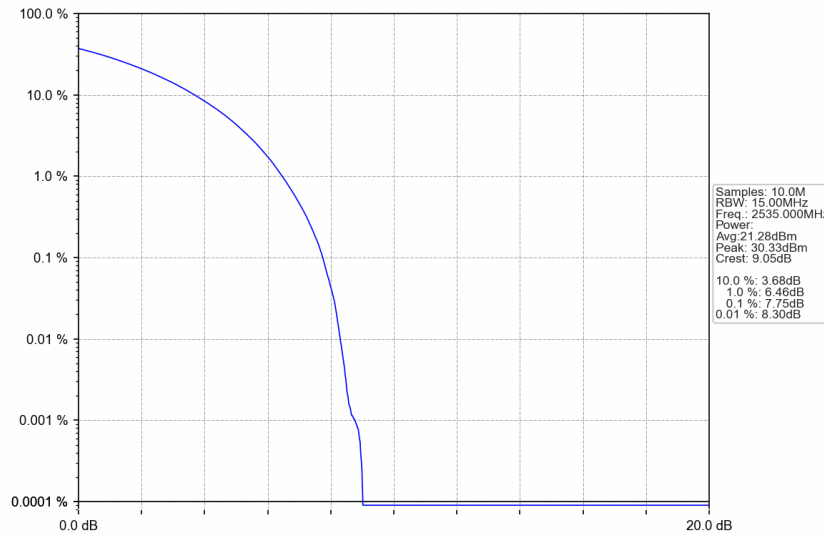
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n7_15kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_2507.5MHz_Outer_Full



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