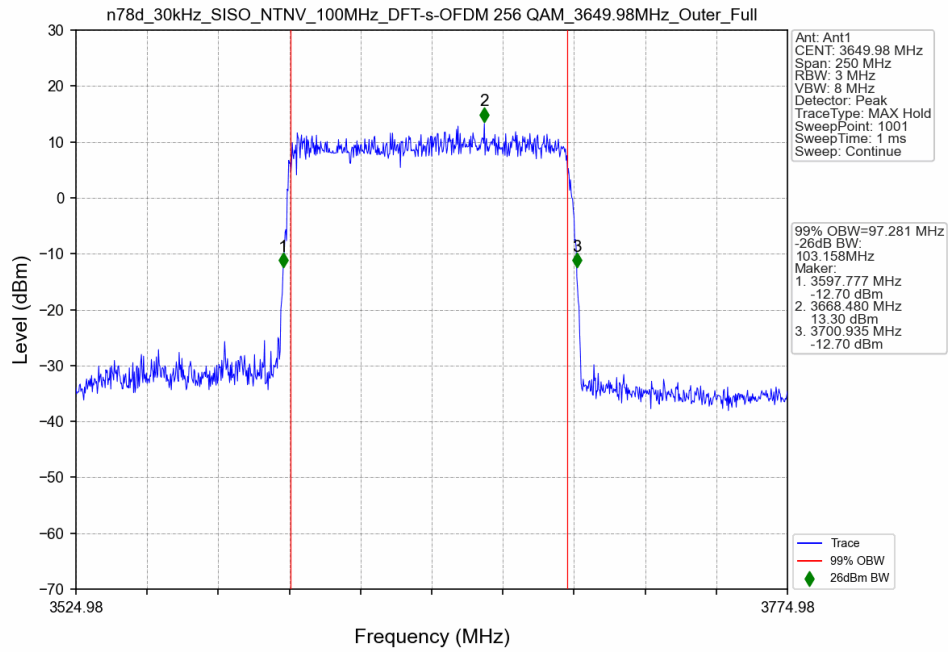
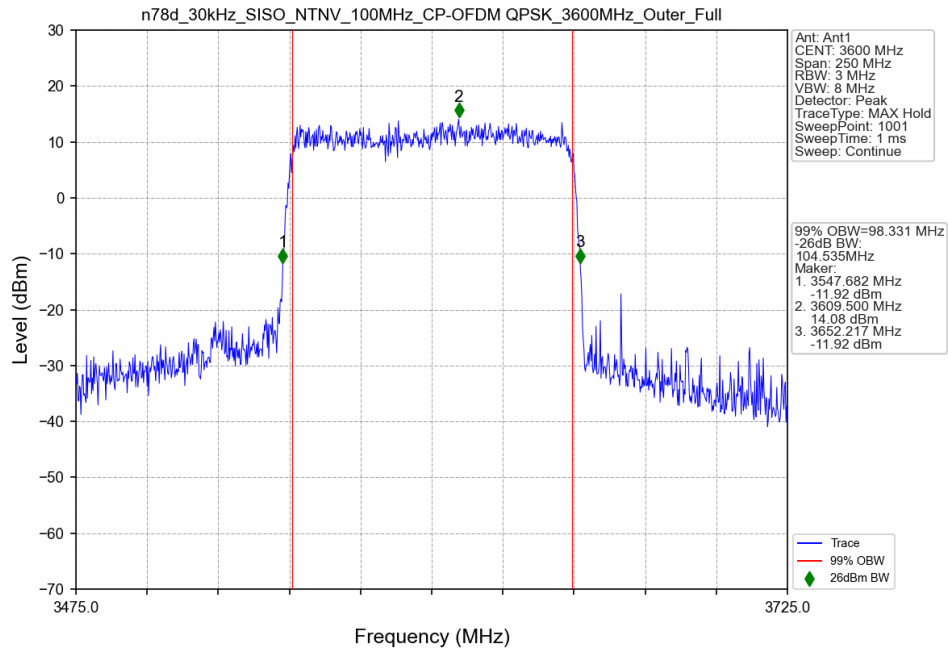


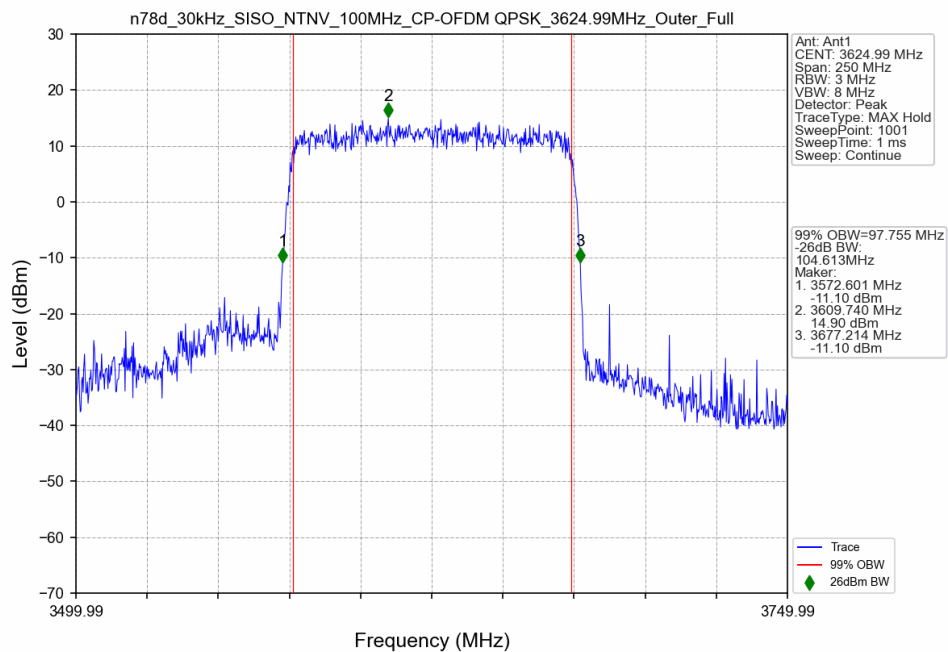
n78d 30kHz SISO NTNv 100MHz DFT-s-OFDM 256 QAM 3649.98MHz Outer Full



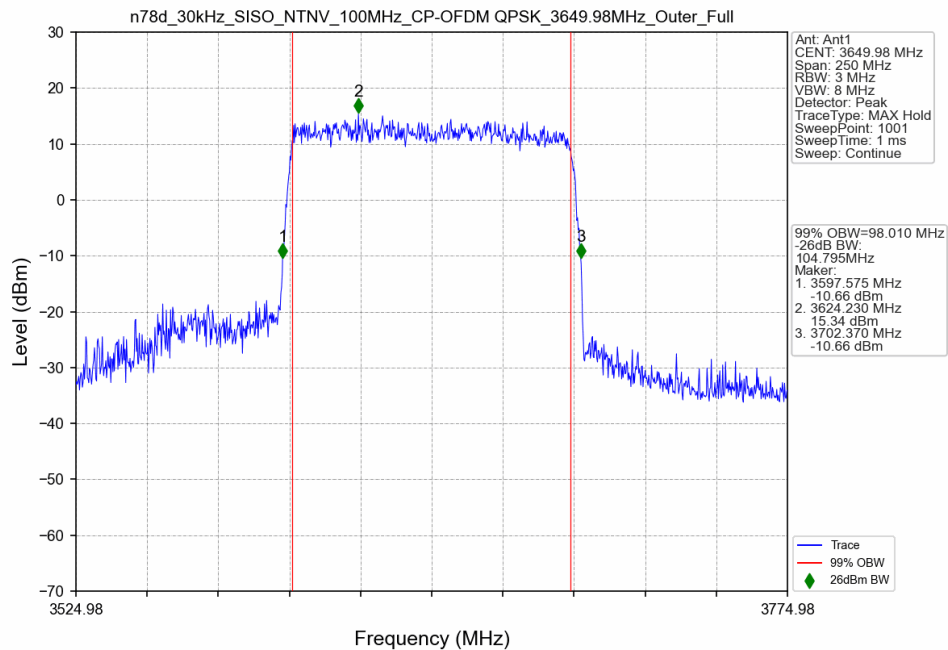
n78d 30kHz SISO NTNv 100MHz CP-OFDM QPSK 3600MHz Outer Full



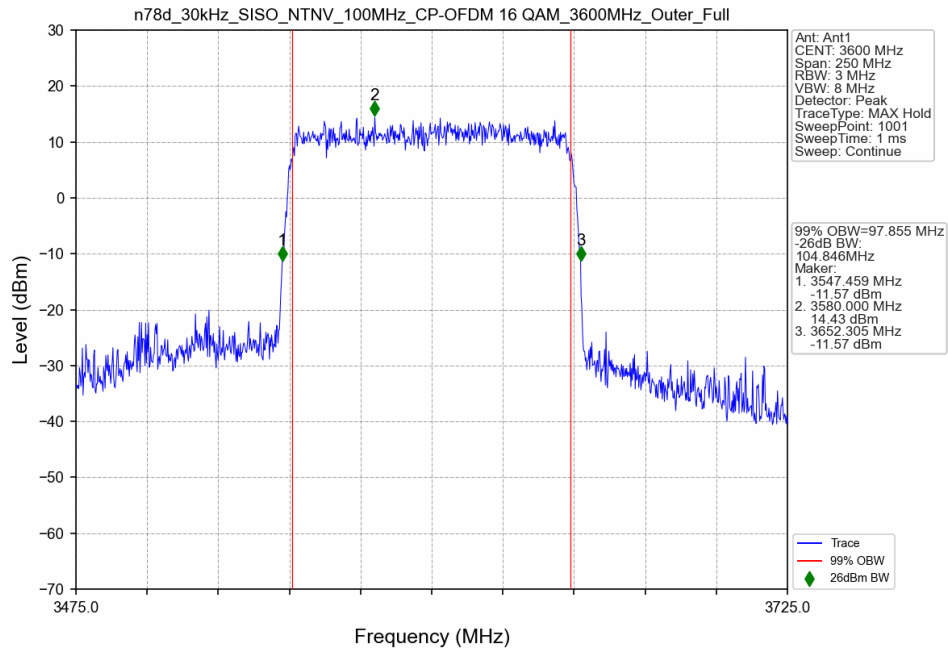
n78d 30kHz SISO NTN 100MHz CP-OFDM QPSK 3624.99MHz Outer Full



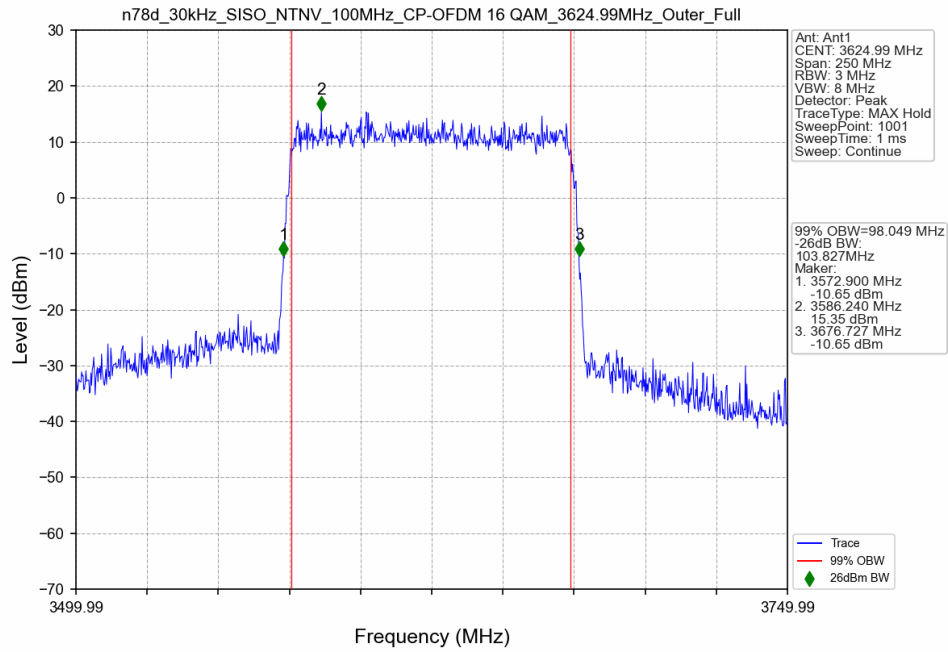
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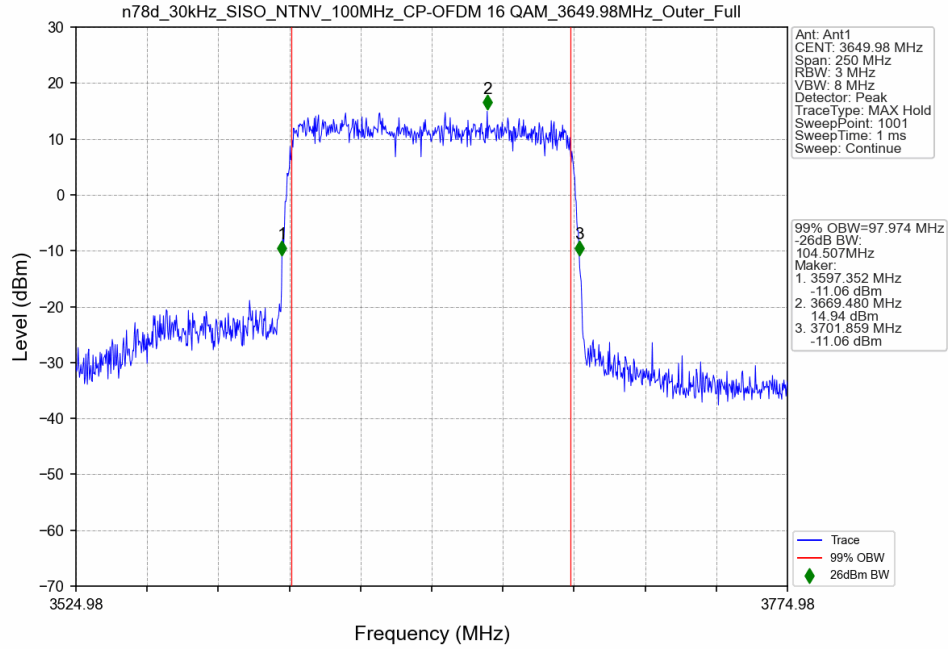
n78d 30kHz SISO NTN 100MHz CP-OFDM 16 QAM 3600MHz Outer Full



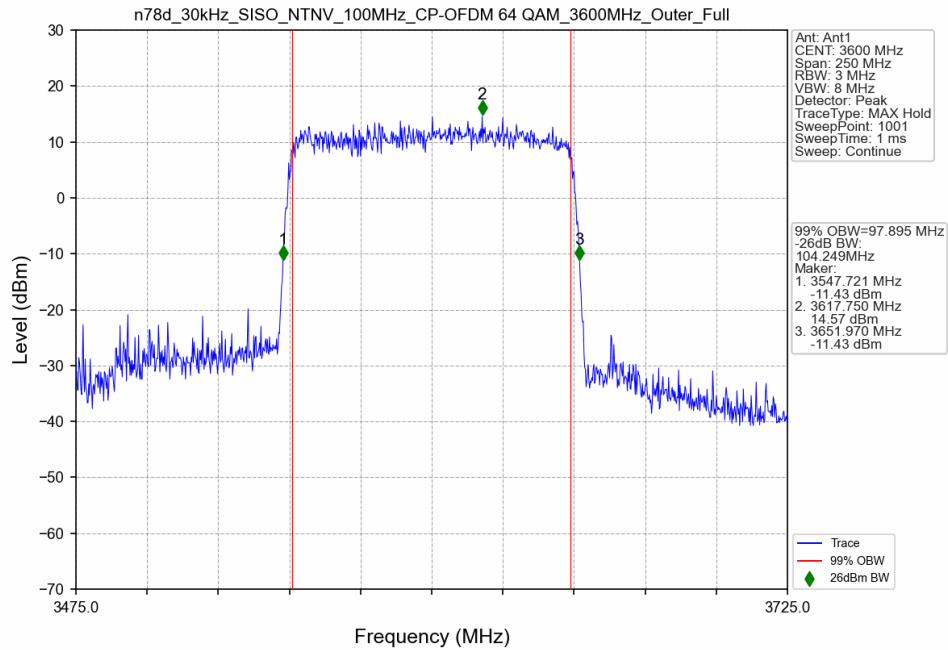
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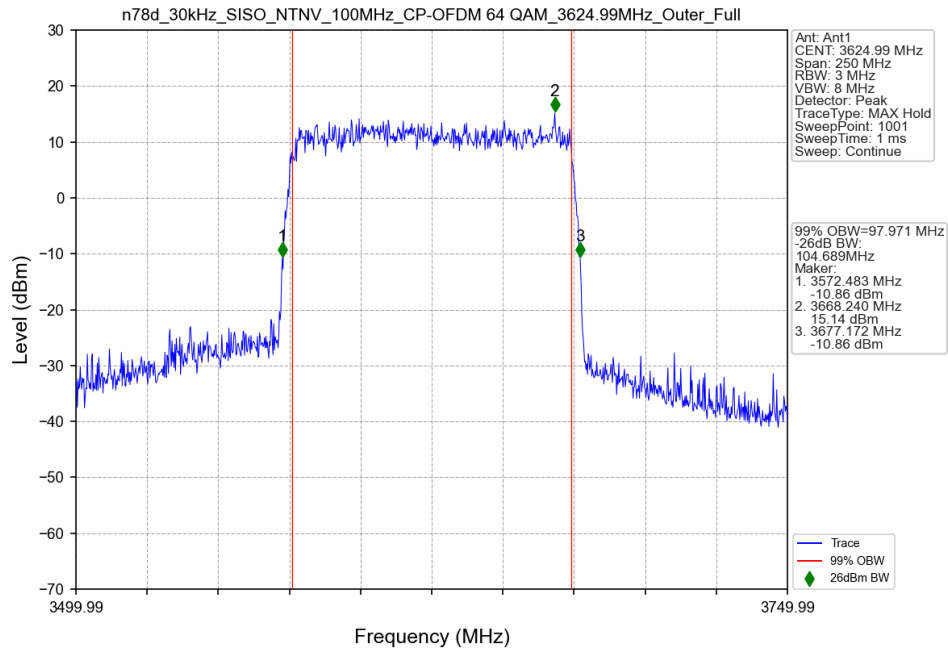
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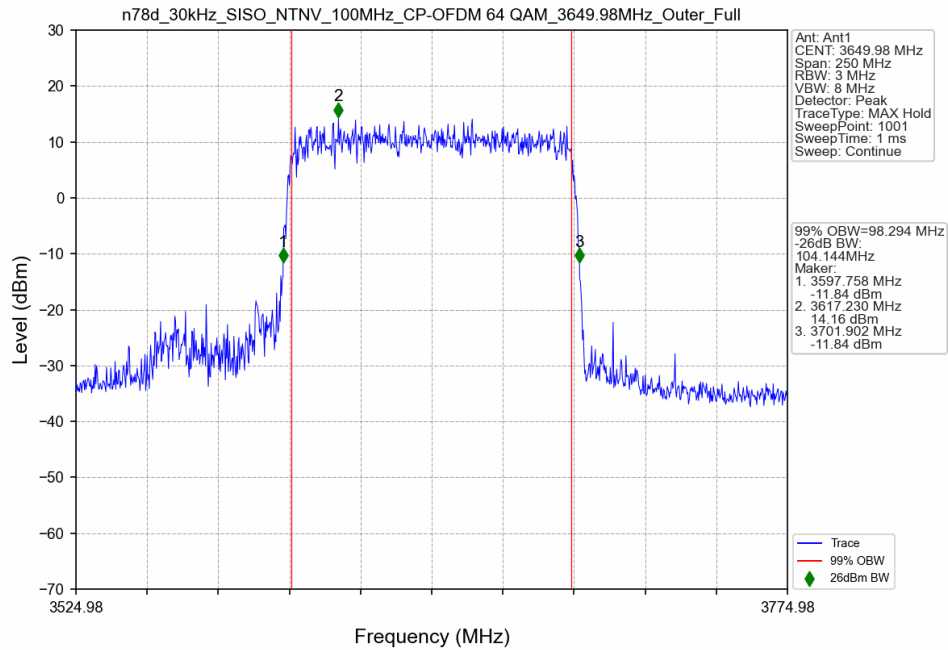
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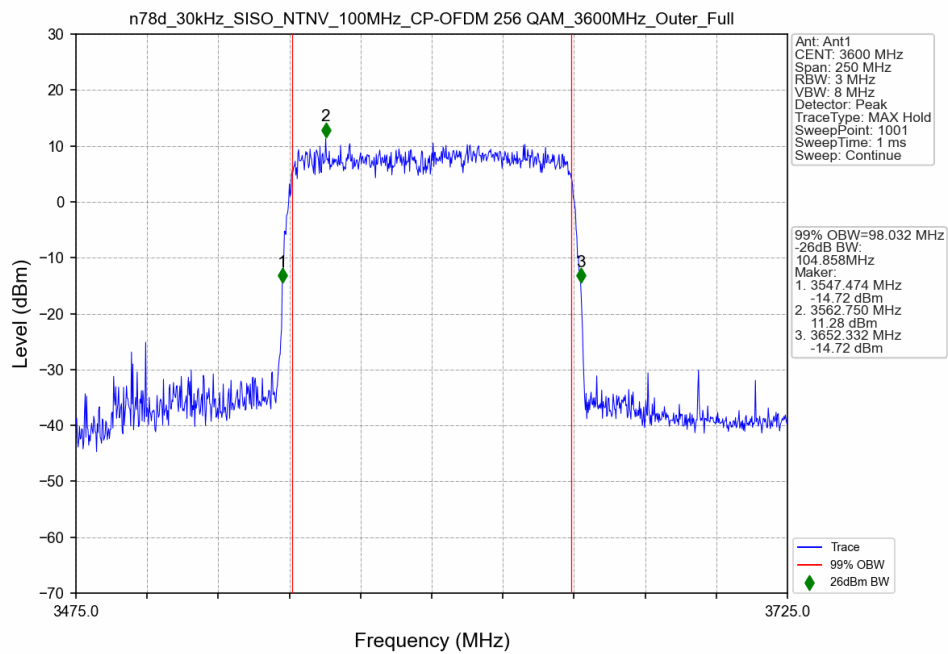
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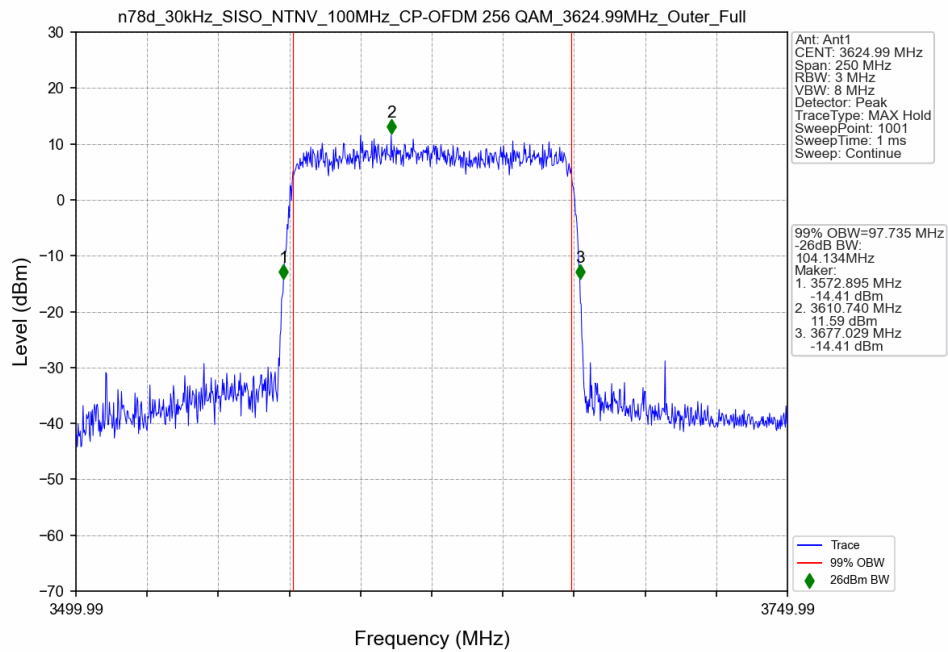
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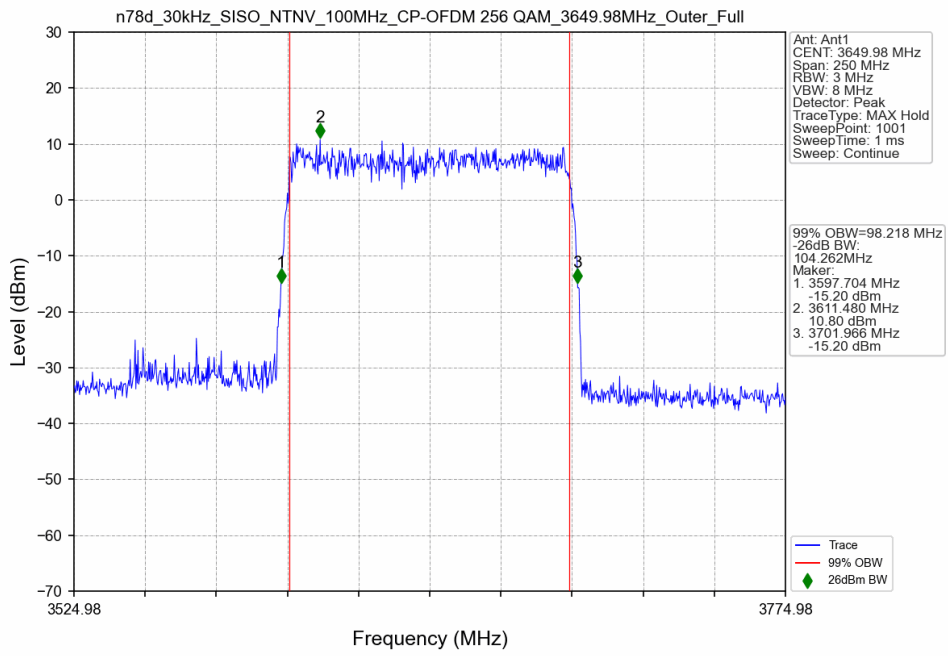
n78d 30kHz SISO NTN 100MHz CP-OFDM 256 QAM 3600MHz Outer Full



n78d 30kHz SISO NTN 100MHz CP-OFDM 256 QAM 3624.99MHz Outer Full



n78d 30kHz SISO NTN 100MHz CP-OFDM 256 QAM 3649.98MHz Outer Full



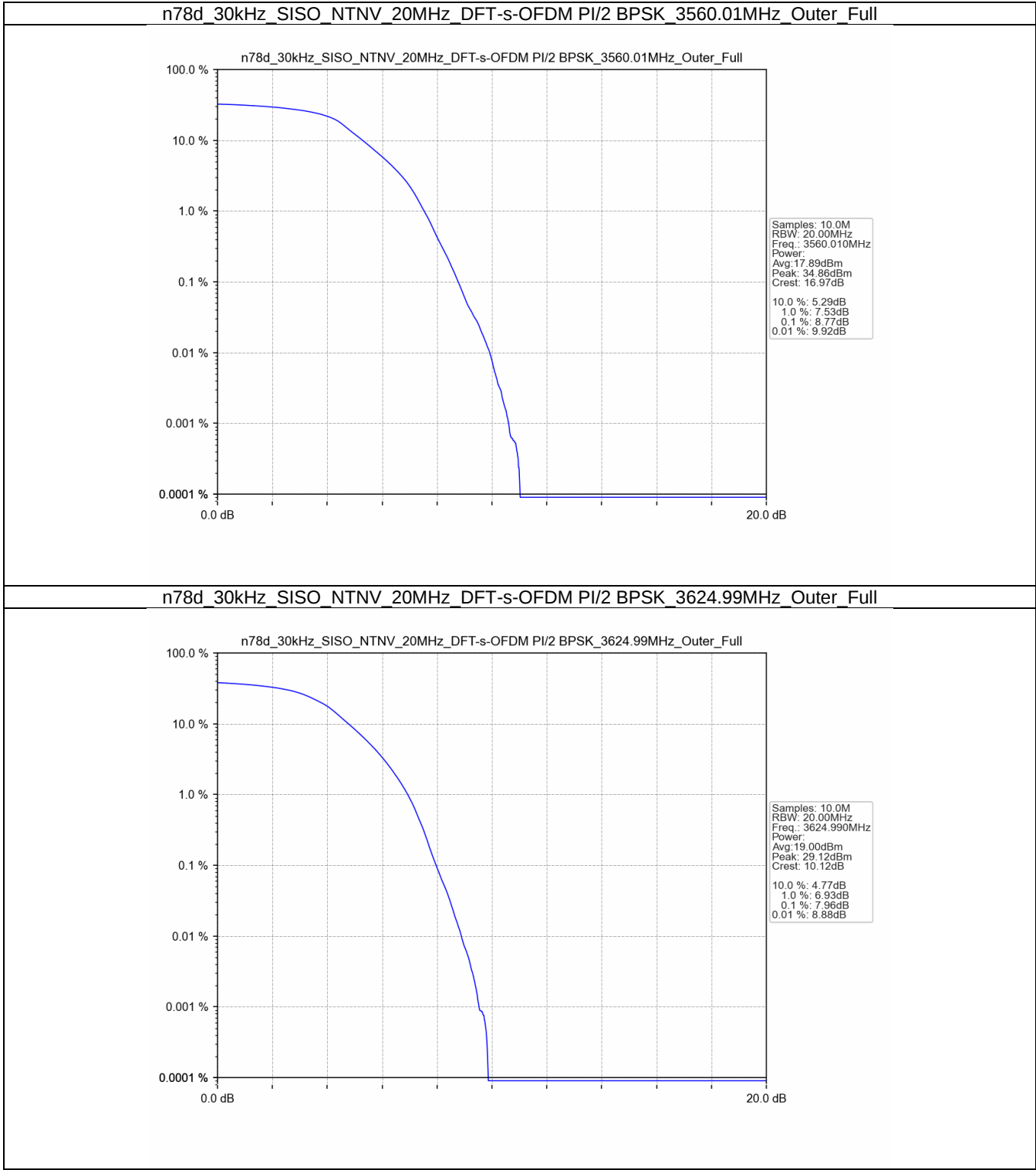
4. Peak-Average Ratio

4.1 30k_SISO_20MHz_NTNV

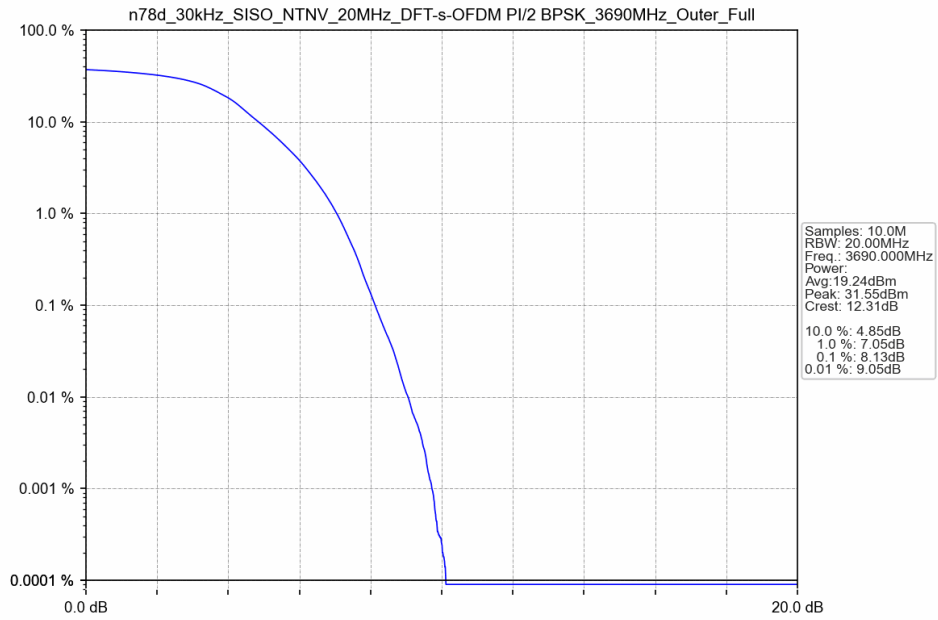
4.1.1 Test Result

5G NR n78d SCS=30kHz SISO 20MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3560.01	Outer_Full	8.77	/	/	<=13	Pass
	3624.99	Outer_Full	7.96	/	/	<=13	Pass
	3690	Outer_Full	8.13	/	/	<=13	Pass
DFT-s-OFDM QPSK	3560.01	Outer_Full	9.54	/	/	<=13	Pass
	3624.99	Outer_Full	9.22	/	/	<=13	Pass
	3690	Outer_Full	9.51	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3560.01	Outer_Full	10.07	/	/	<=13	Pass
	3624.99	Outer_Full	10.01	/	/	<=13	Pass
	3690	Outer_Full	9.88	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3560.01	Outer_Full	10.25	/	/	<=13	Pass
	3624.99	Outer_Full	10.04	/	/	<=13	Pass
	3690	Outer_Full	10.03	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3560.01	Outer_Full	10.24	/	/	<=13	Pass
	3624.99	Outer_Full	9.97	/	/	<=13	Pass
	3690	Outer_Full	10.15	/	/	<=13	Pass
CP-OFDM QPSK	3560.01	Outer_Full	11.97	/	/	<=13	Pass
	3624.99	Outer_Full	12.03	/	/	<=13	Pass
	3690	Outer_Full	11.86	/	/	<=13	Pass
CP-OFDM 16 QAM	3560.01	Outer_Full	12.17	/	/	<=13	Pass
	3624.99	Outer_Full	11.72	/	/	<=13	Pass
	3690	Outer_Full	11.72	/	/	<=13	Pass
CP-OFDM 64 QAM	3560.01	Outer_Full	12.08	/	/	<=13	Pass
	3624.99	Outer_Full	12.08	/	/	<=13	Pass
	3690	Outer_Full	11.87	/	/	<=13	Pass
CP-OFDM 256 QAM	3560.01	Outer_Full	11.72	/	/	<=13	Pass
	3624.99	Outer_Full	11.86	/	/	<=13	Pass
	3690	Outer_Full	11.99	/	/	<=13	Pass

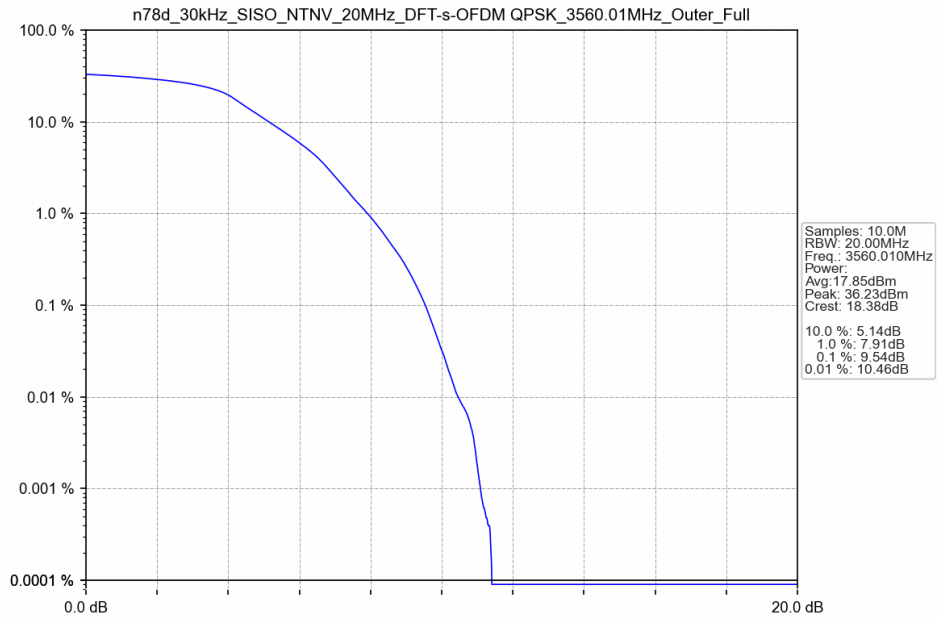
4.1.2 Test Graph



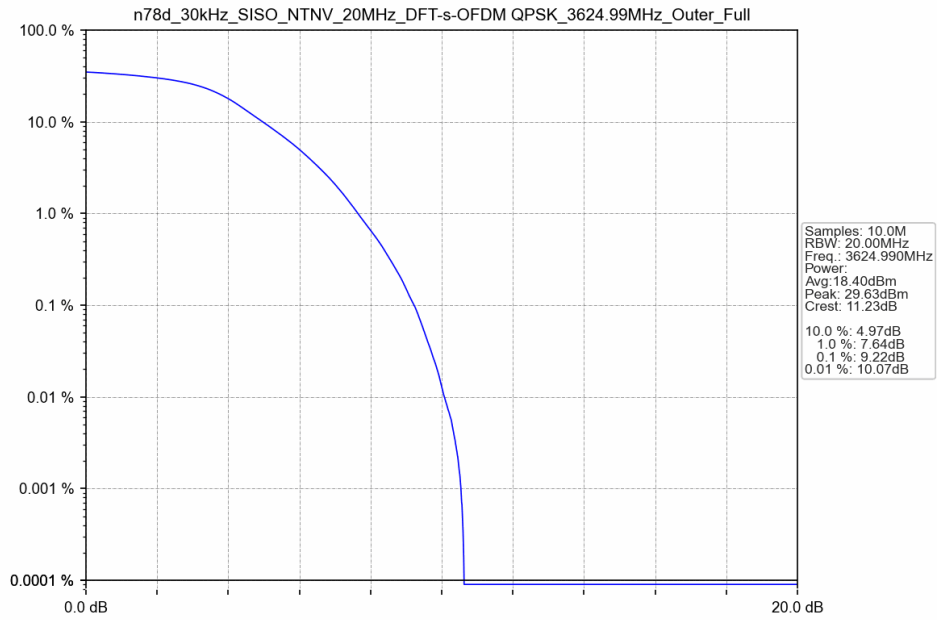
n78d 30kHz SISO NTN 20MHz DFT-s-OFDM PI/2 BPSK 3690MHz Outer Full



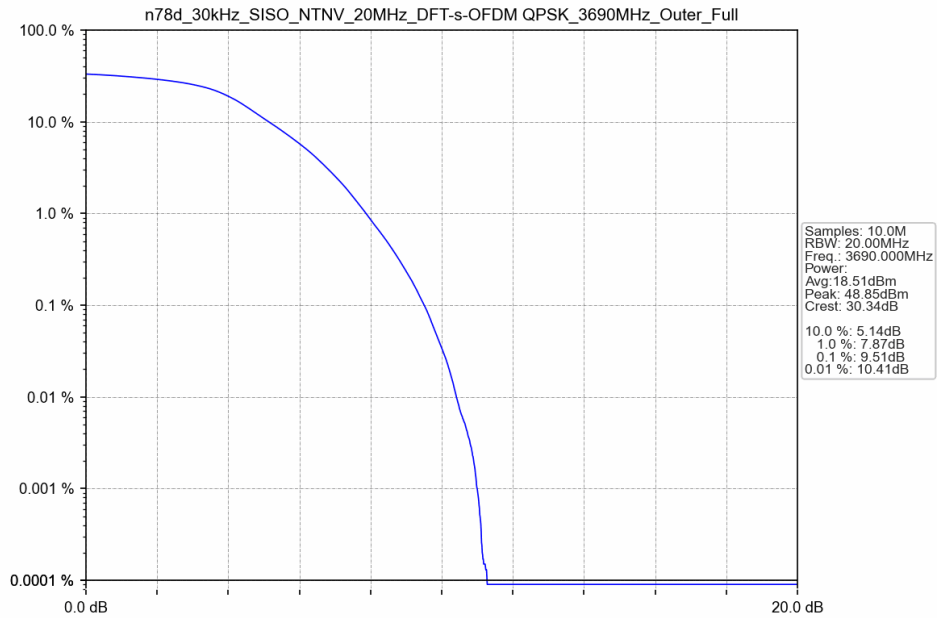
n78d 30kHz SISO NTN 20MHz DFT-s-OFDM QPSK 3560.01MHz Outer Full



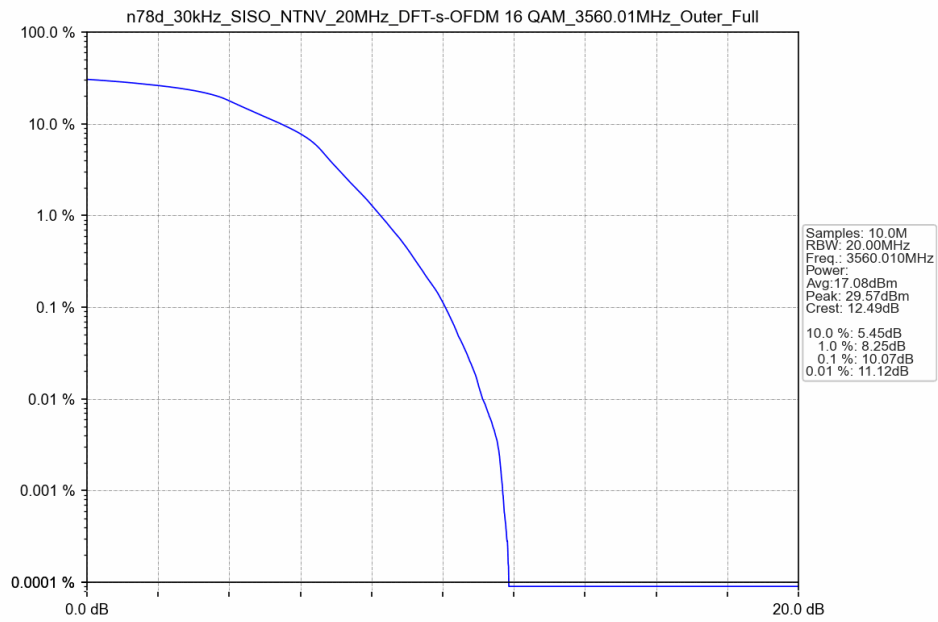
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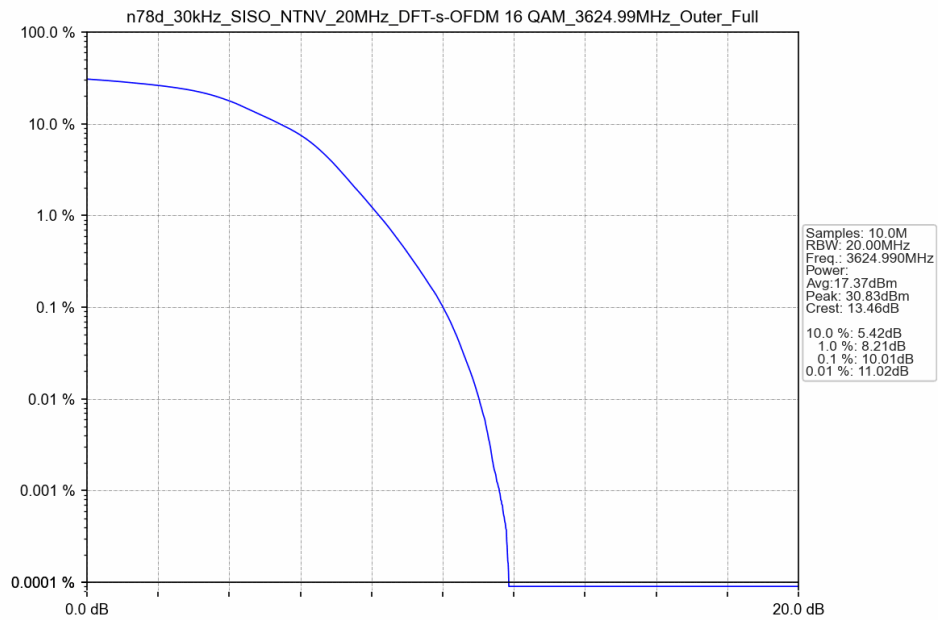
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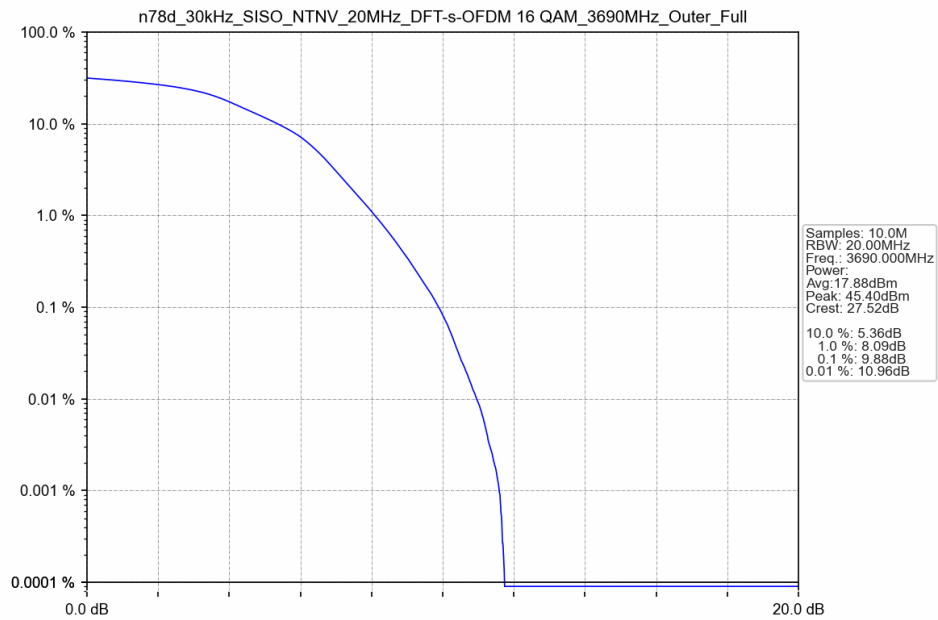
n78d 30kHz SISO NTN 20MHz DFT-s-OFDM 16 QAM 3560.01MHz Outer Full



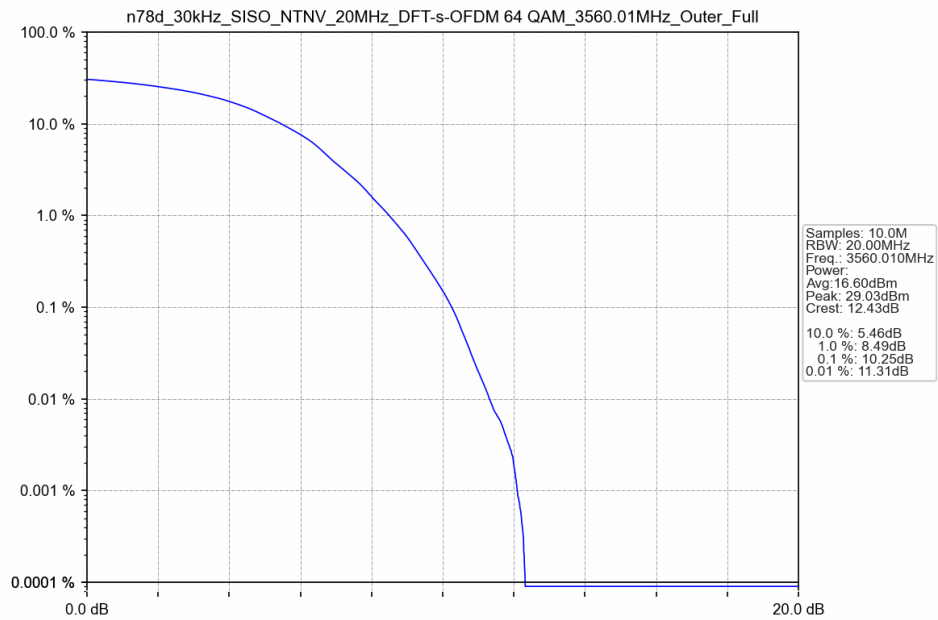
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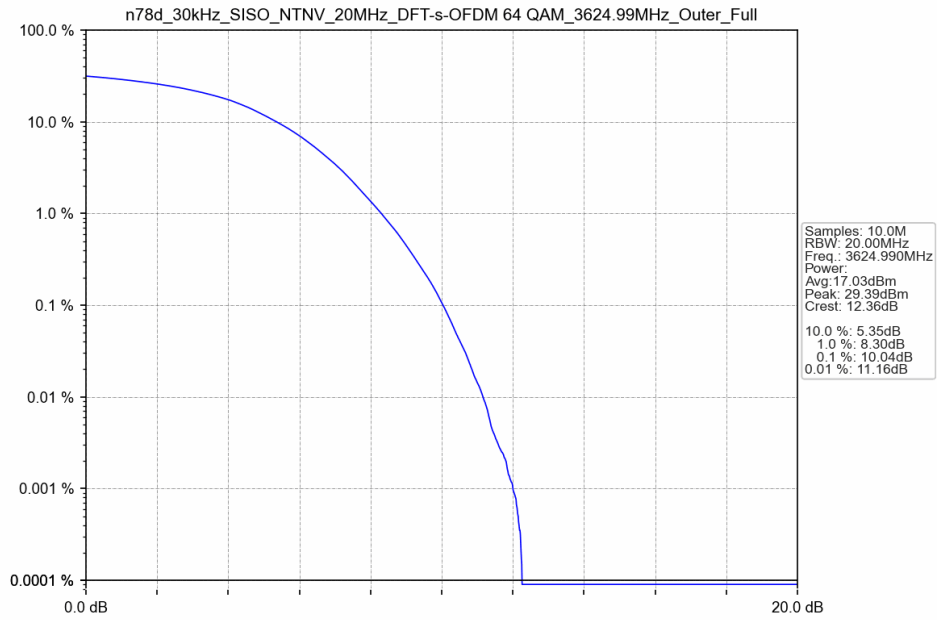
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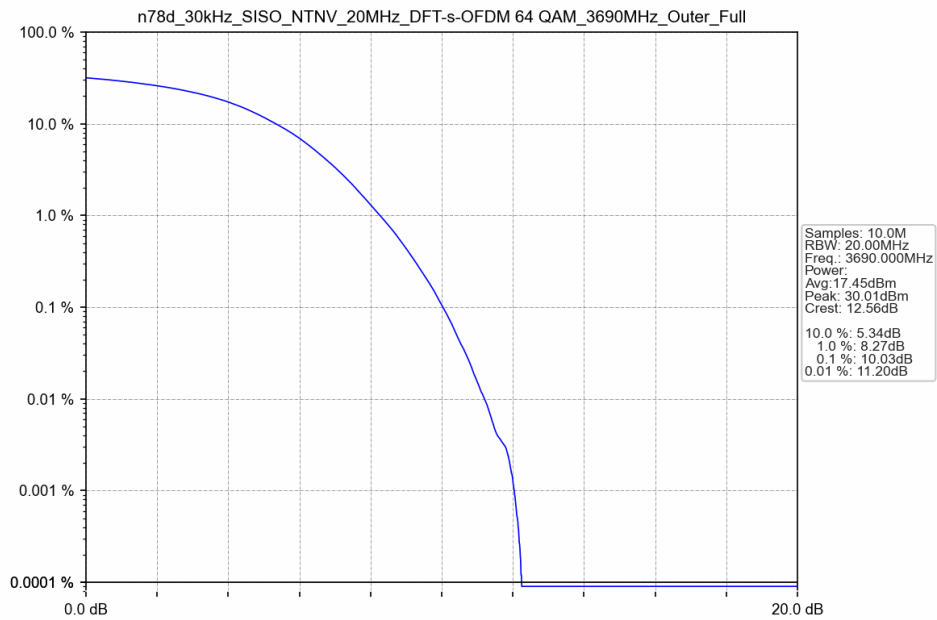
n78d 30kHz SISO NTN 20MHz DFT-s-OFDM 64 QAM 3560.01MHz Outer Full



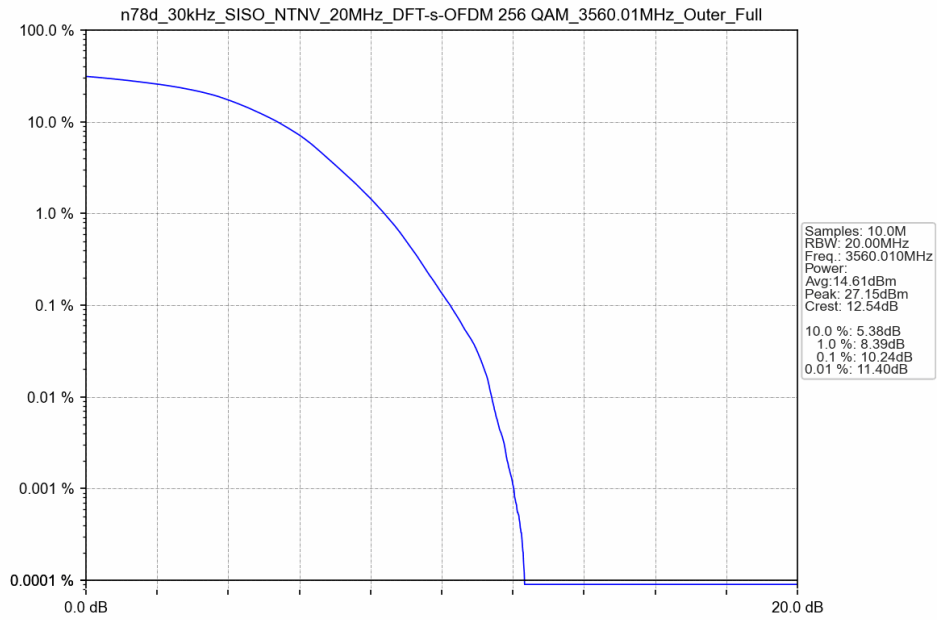
n78d 30kHz SISO NTN 20MHz DFT-s-OFDM 64 QAM 3624.99MHz Outer Full



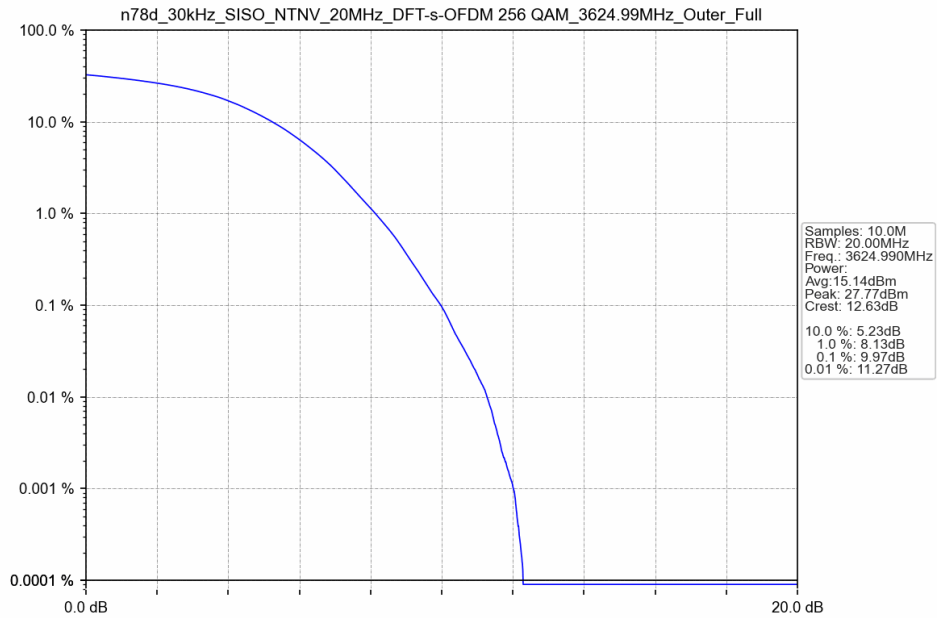
n78d 30kHz SISO NTN 20MHz DFT-s-OFDM 64 QAM 3690MHz Outer Full



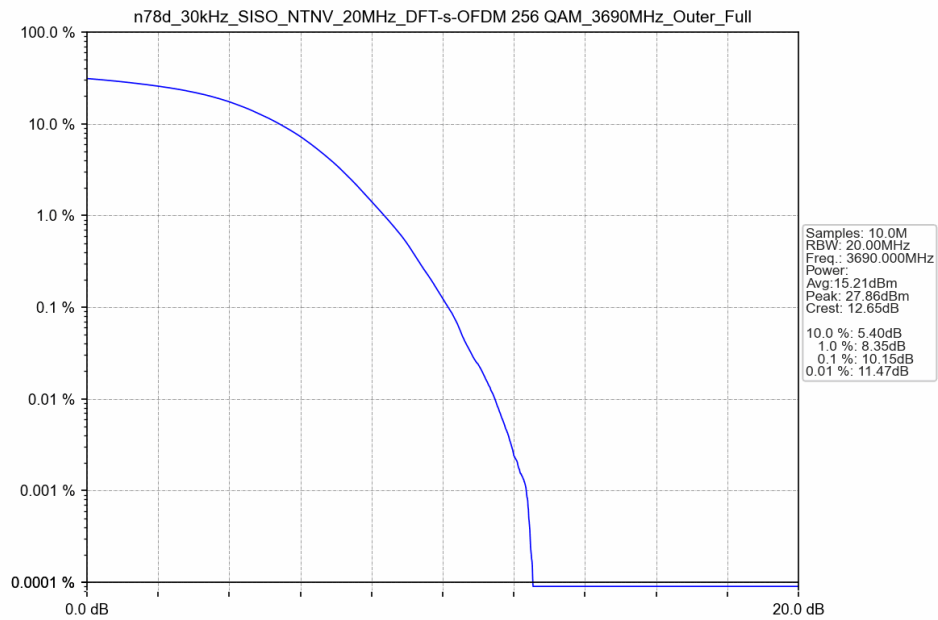
n78d 30kHz SISO NTN 20MHz DFT-s-OFDM 256 QAM 3560.01MHz Outer Full



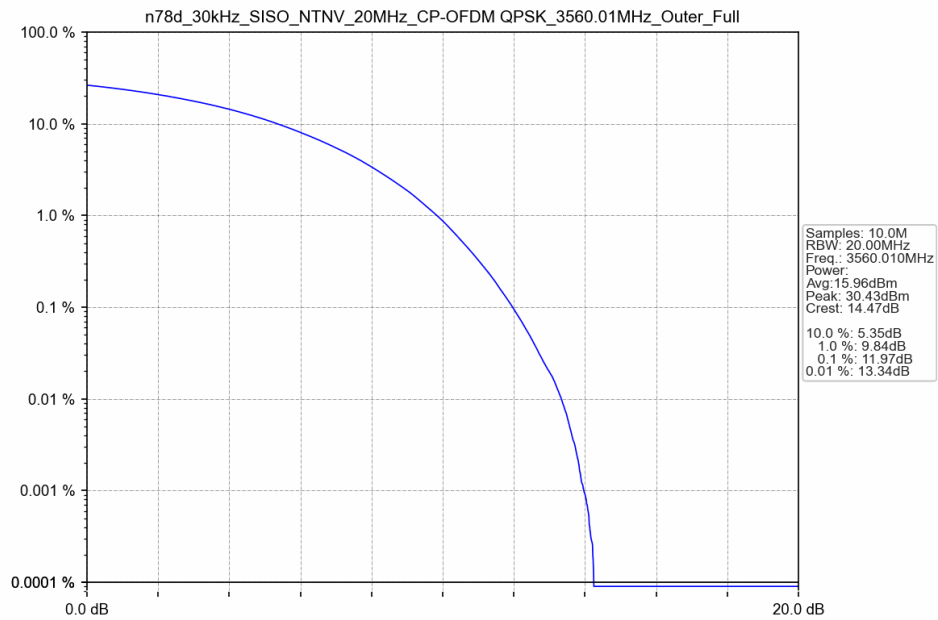
n78d 30kHz SISO NTN 20MHz DFT-s-OFDM 256 QAM 3624.99MHz Outer Full



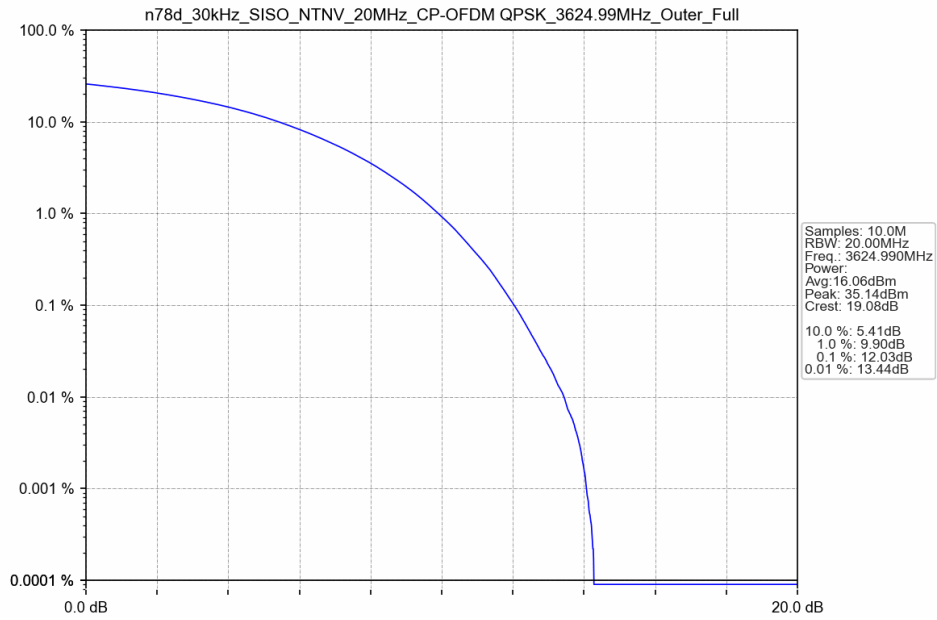
n78d 30kHz SISO NTN 20MHz DFT-s-OFDM 256 QAM 3690MHz Outer Full



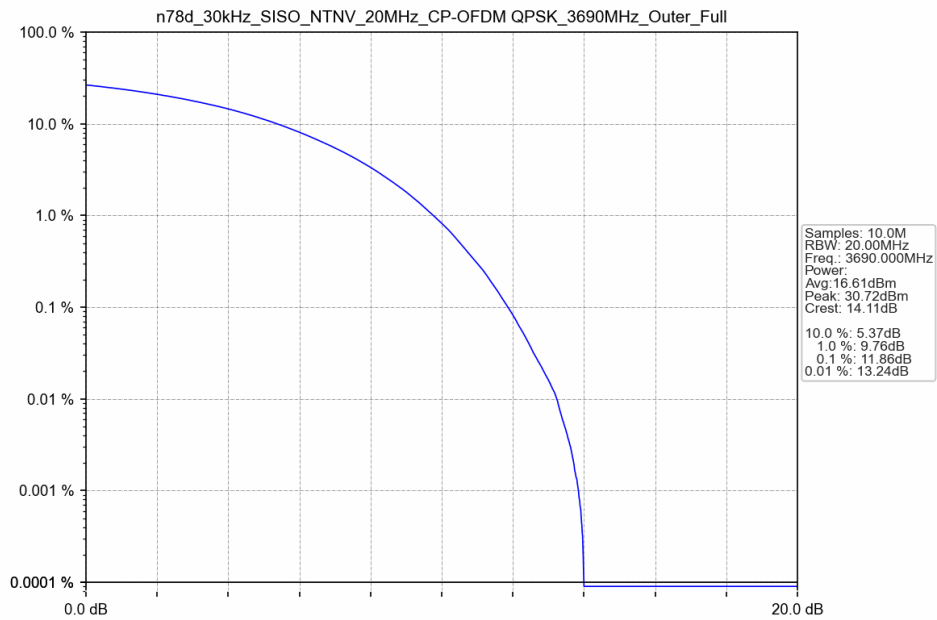
n78d 30kHz SISO NTN 20MHz CP-OFDM QPSK 3560.01MHz Outer Full



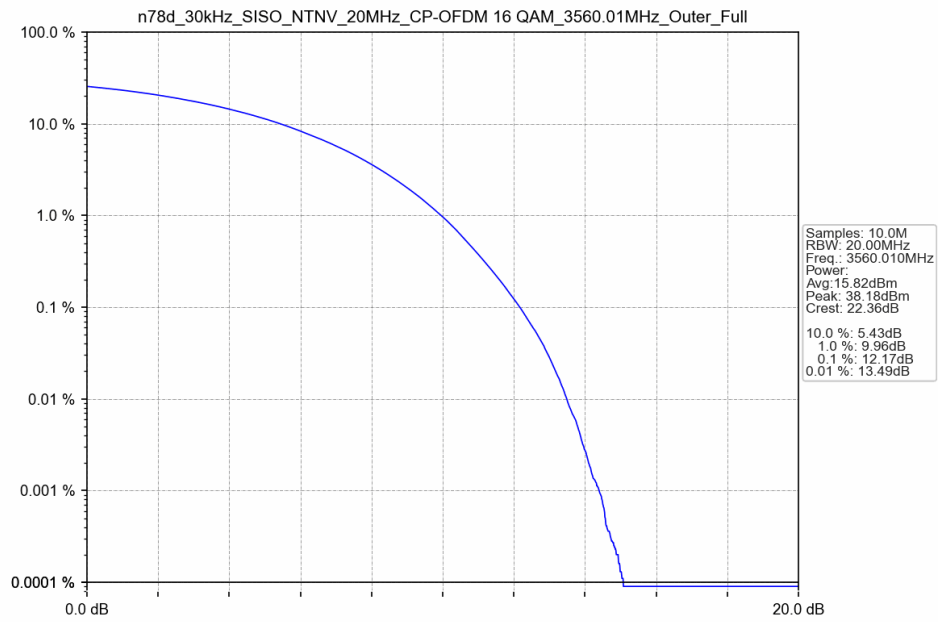
n78d 30kHz SISO NTN 20MHz CP-OFDM QPSK 3624.99MHz Outer Full



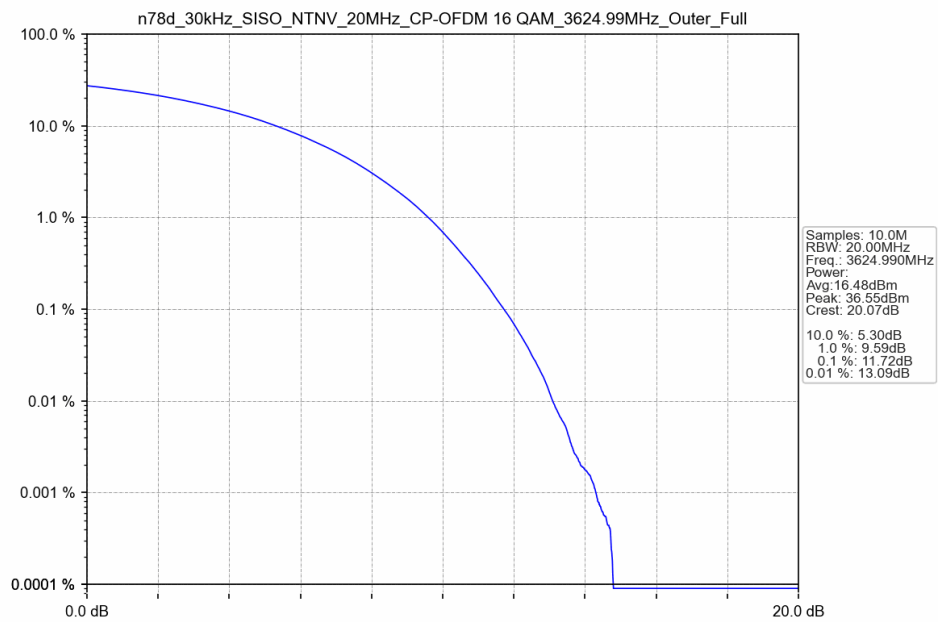
n78d 30kHz SISO NTN 20MHz CP-OFDM QPSK 3690MHz Outer Full



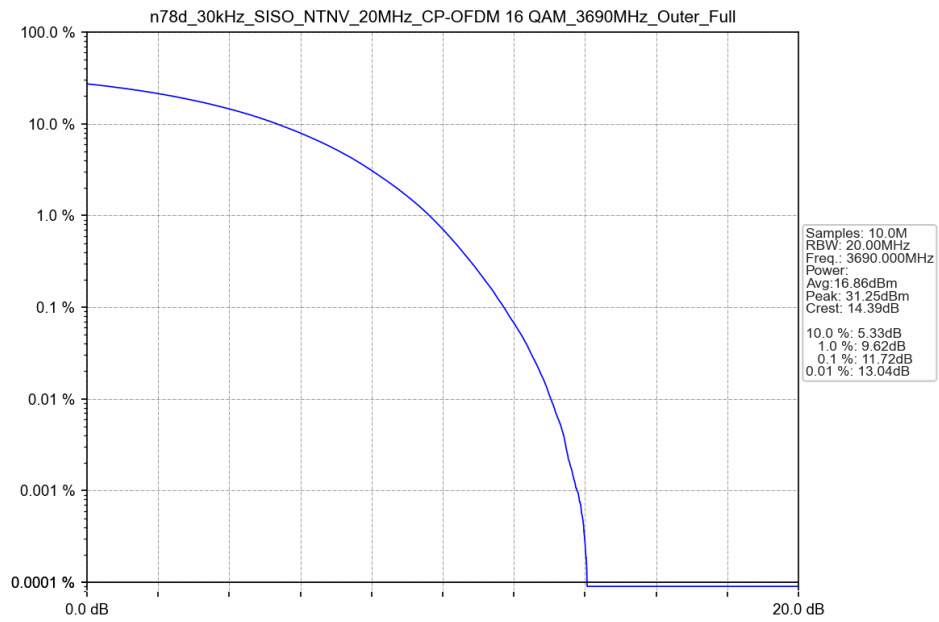
n78d 30kHz SISO NTN 20MHz CP-OFDM 16 QAM 3560.01MHz Outer Full



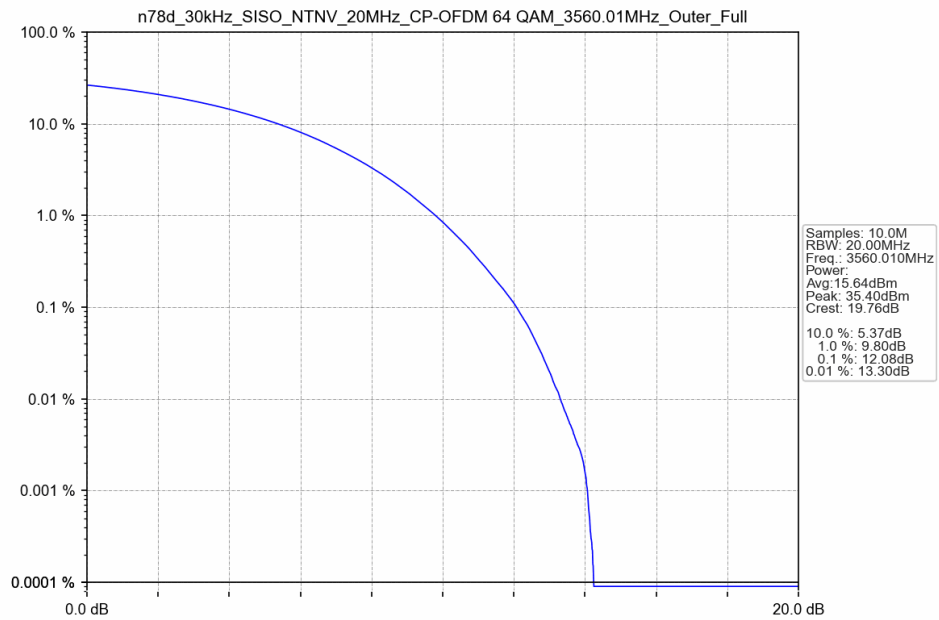
n78d 30kHz SISO NTN 20MHz CP-OFDM 16 QAM 3624.99MHz Outer Full



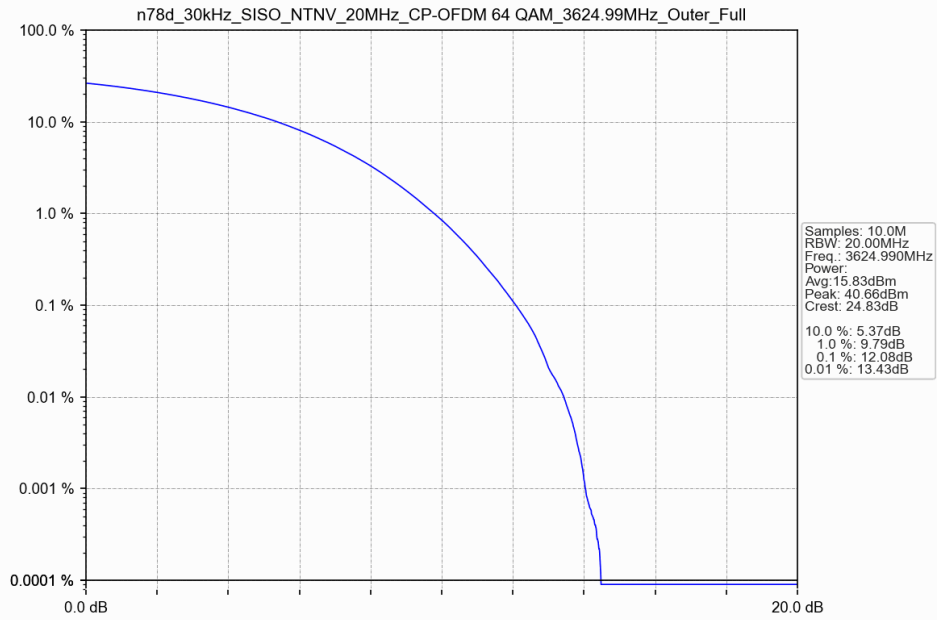
n78d 30kHz SISO NTN 20MHz CP-OFDM 16 QAM 3690MHz Outer Full



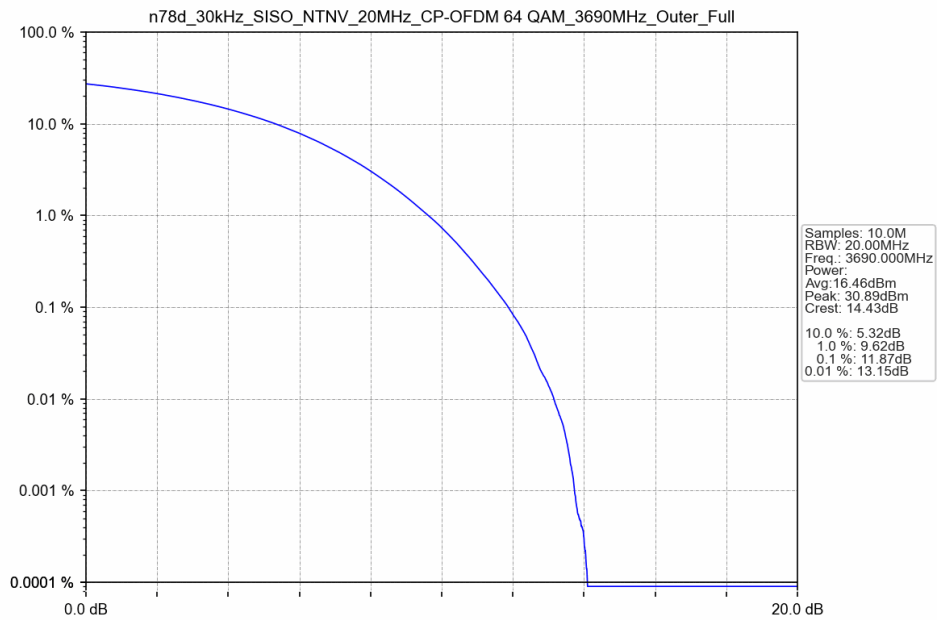
n78d 30kHz SISO NTN 20MHz CP-OFDM 64 QAM 3560.01MHz Outer Full



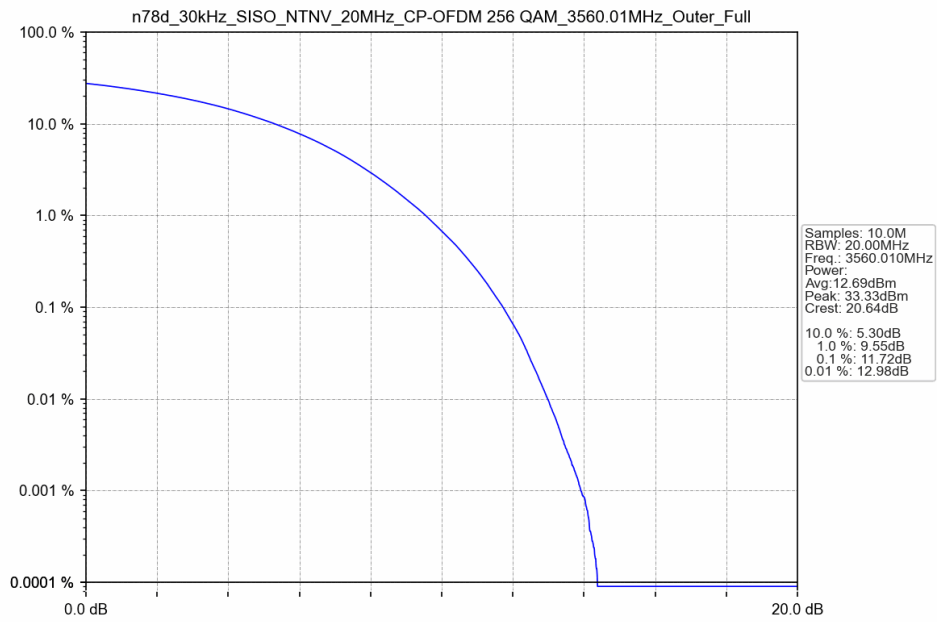
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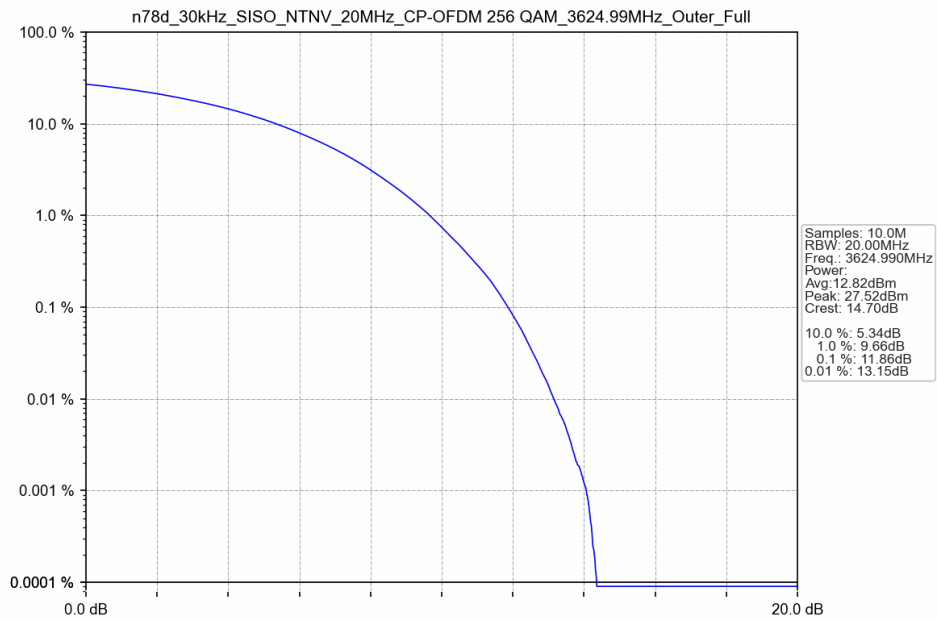
n78d 30kHz SISO NTN 20MHz CP-OFDM 64 QAM 3690MHz Outer Full



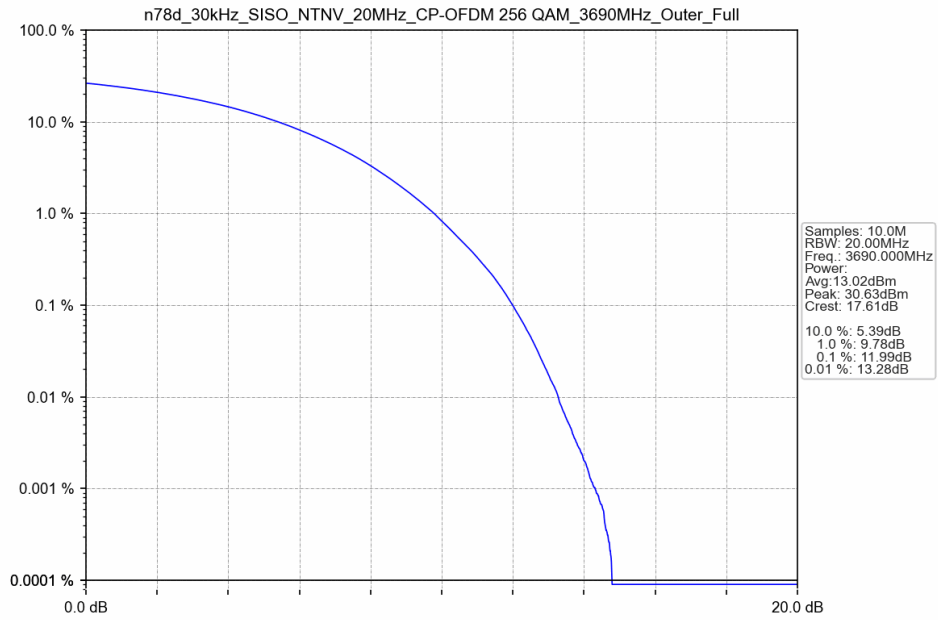
n78d 30kHz SISO NTN 20MHz CP-OFDM 256 QAM 3560.01MHz Outer Full



n78d 30kHz SISO NTN 20MHz CP-OFDM 256 QAM 3624.99MHz Outer Full



n78d 30kHz SISO NTN 20MHz CP-OFDM 256 QAM 3690MHz Outer Full

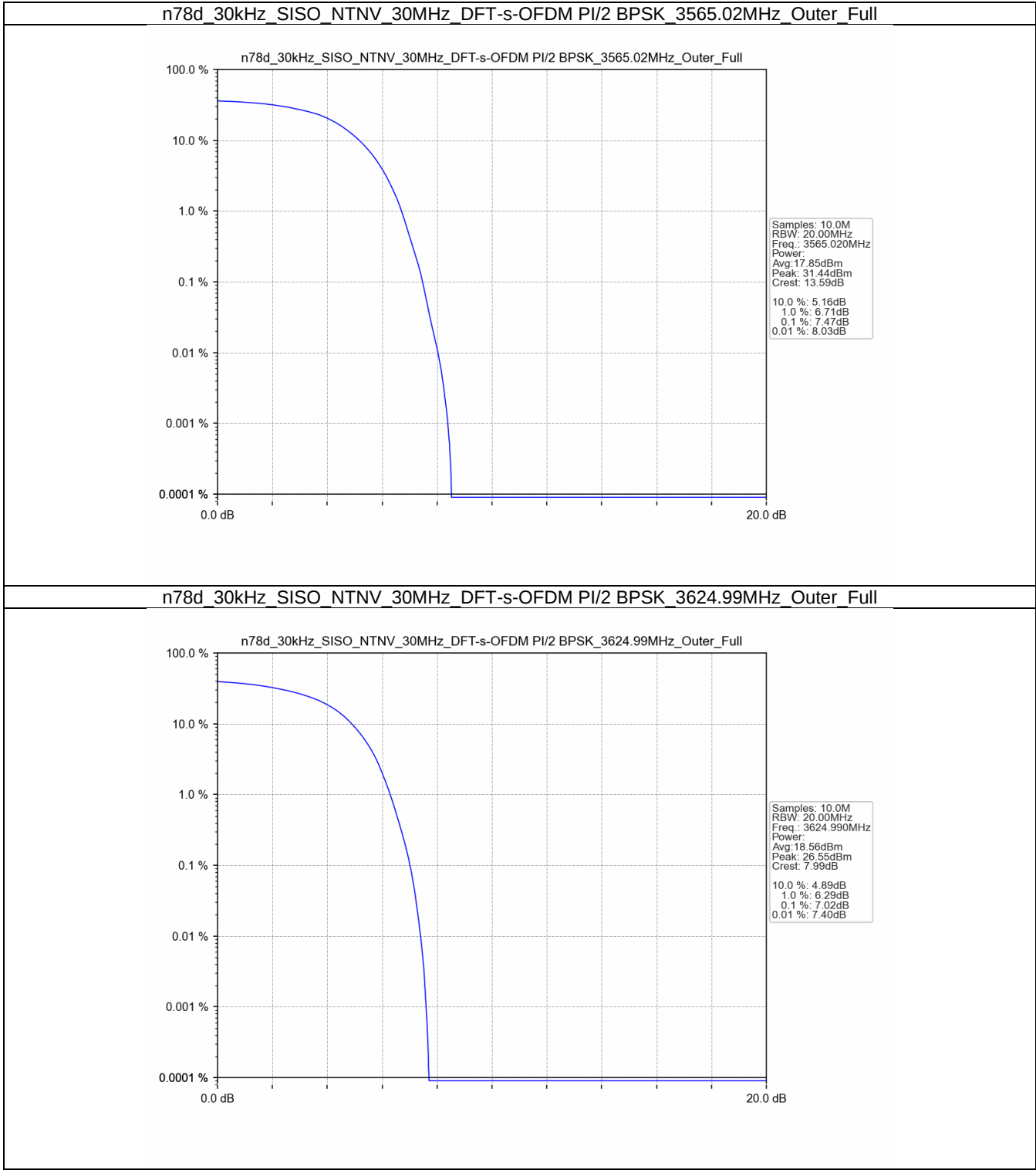


4.2 30k_SISO_30MHz_NTNV

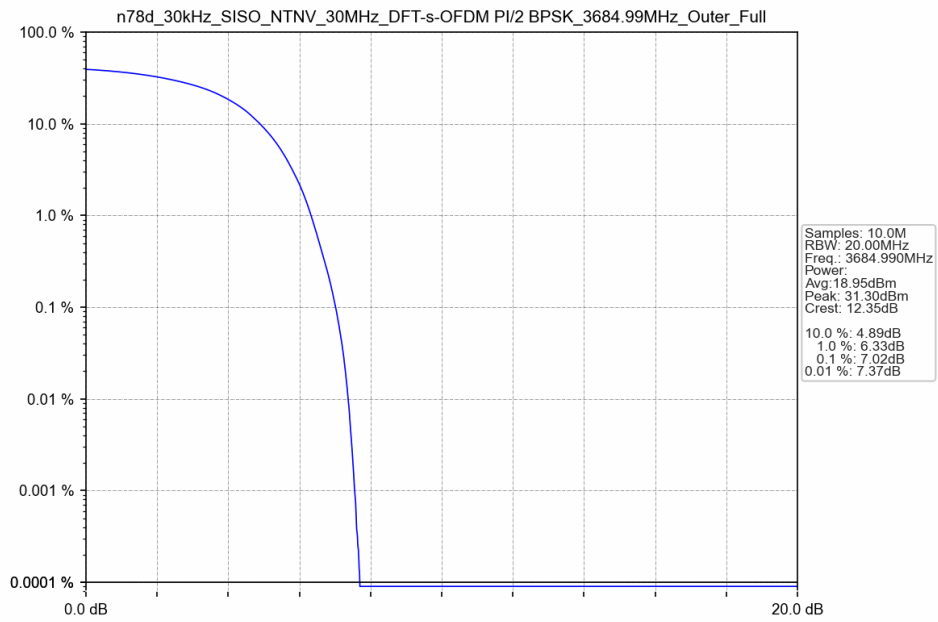
4.2.1 Test Result

5G NR n78d SCS=30kHz SISO 30MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3565.02	Outer_Full	7.47	/	/	<=13	Pass
	3624.99	Outer_Full	7.02	/	/	<=13	Pass
	3684.99	Outer_Full	7.02	/	/	<=13	Pass
DFT-s-OFDM QPSK	3565.02	Outer_Full	9.37	/	/	<=13	Pass
	3624.99	Outer_Full	8.92	/	/	<=13	Pass
	3684.99	Outer_Full	8.96	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3565.02	Outer_Full	9.94	/	/	<=13	Pass
	3624.99	Outer_Full	9.90	/	/	<=13	Pass
	3684.99	Outer_Full	9.83	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3565.02	Outer_Full	10.40	/	/	<=13	Pass
	3624.99	Outer_Full	10.01	/	/	<=13	Pass
	3684.99	Outer_Full	9.89	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3565.02	Outer_Full	10.30	/	/	<=13	Pass
	3624.99	Outer_Full	9.87	/	/	<=13	Pass
	3684.99	Outer_Full	9.99	/	/	<=13	Pass
CP-OFDM QPSK	3565.02	Outer_Full	12.12	/	/	<=13	Pass
	3624.99	Outer_Full	11.72	/	/	<=13	Pass
	3684.99	Outer_Full	11.73	/	/	<=13	Pass
CP-OFDM 16 QAM	3565.02	Outer_Full	11.81	/	/	<=13	Pass
	3624.99	Outer_Full	11.82	/	/	<=13	Pass
	3684.99	Outer_Full	12.11	/	/	<=13	Pass
CP-OFDM 64 QAM	3565.02	Outer_Full	12.08	/	/	<=13	Pass
	3624.99	Outer_Full	11.70	/	/	<=13	Pass
	3684.99	Outer_Full	11.99	/	/	<=13	Pass
CP-OFDM 256 QAM	3565.02	Outer_Full	11.83	/	/	<=13	Pass
	3624.99	Outer_Full	11.96	/	/	<=13	Pass
	3684.99	Outer_Full	11.73	/	/	<=13	Pass

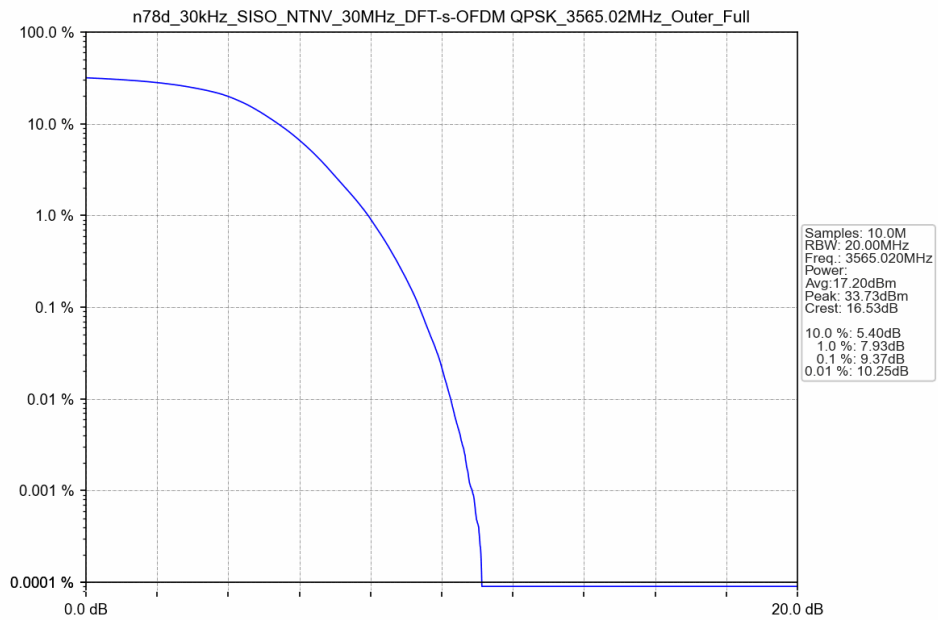
4.2.2 Test Graph



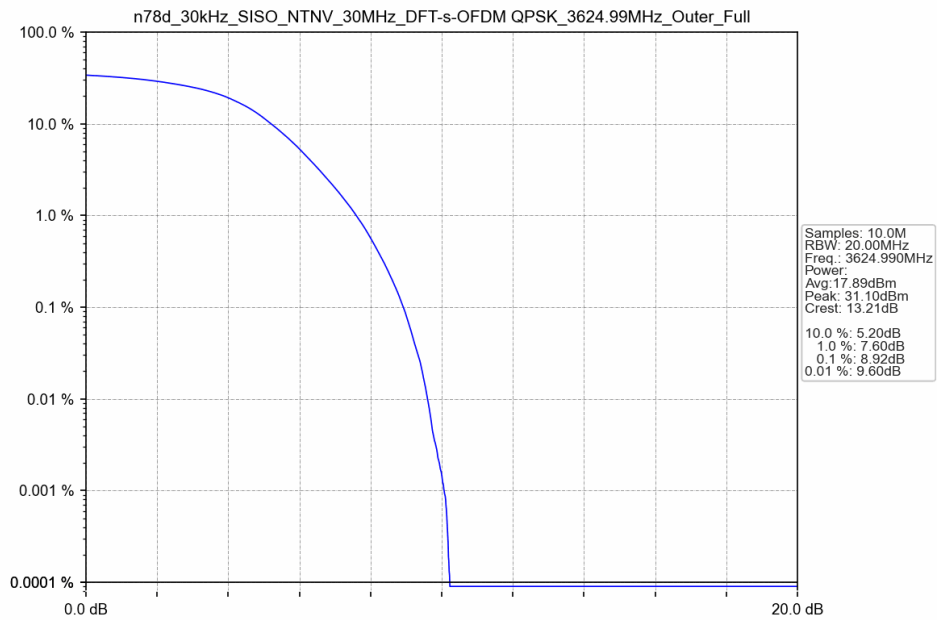
n78d 30kHz SISO NTN 30MHz DFT-s-OFDM PI/2 BPSK 3684.99MHz Outer Full



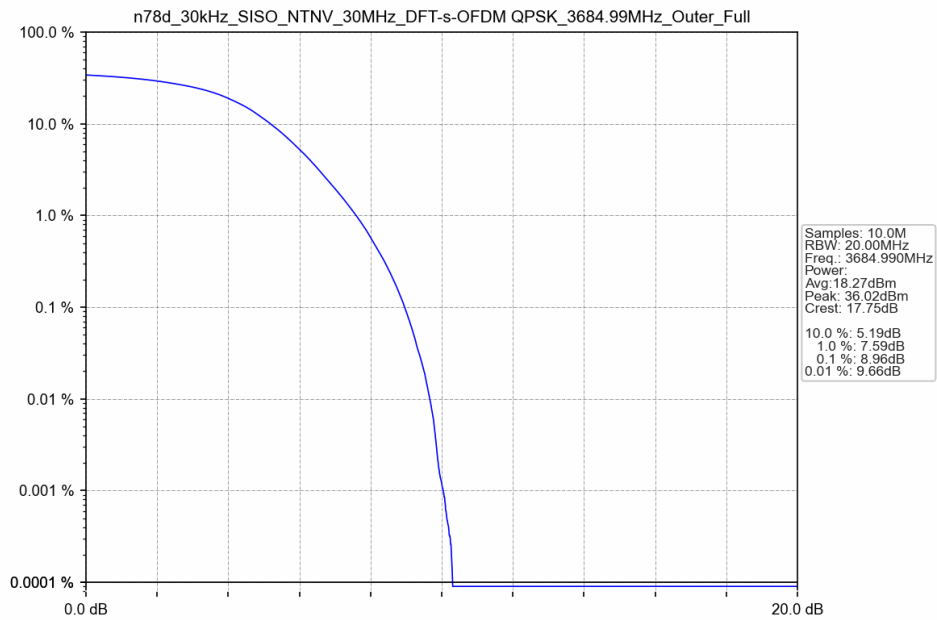
n78d 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3565.02MHz Outer Full



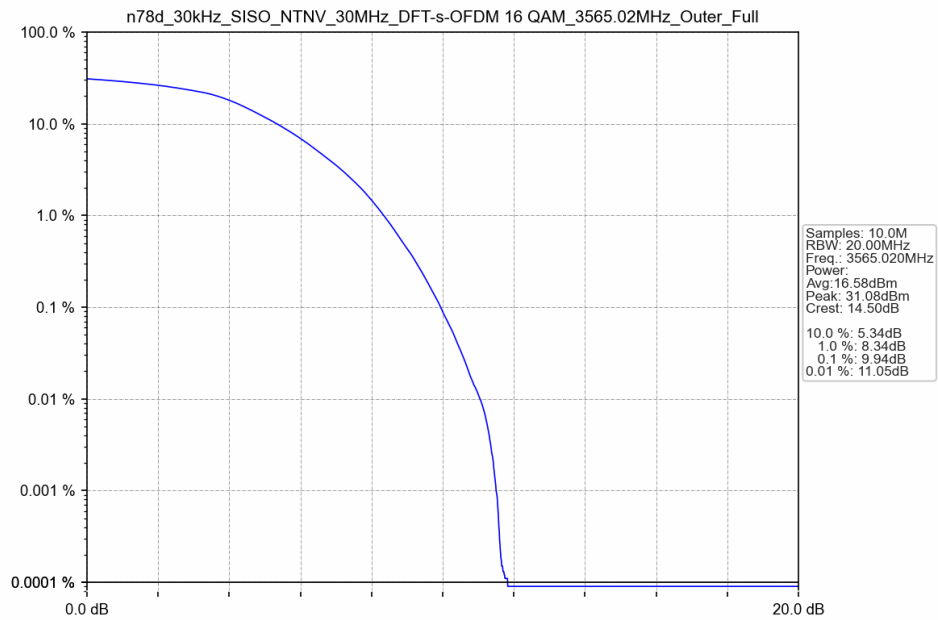
n78d 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3624.99MHz Outer Full



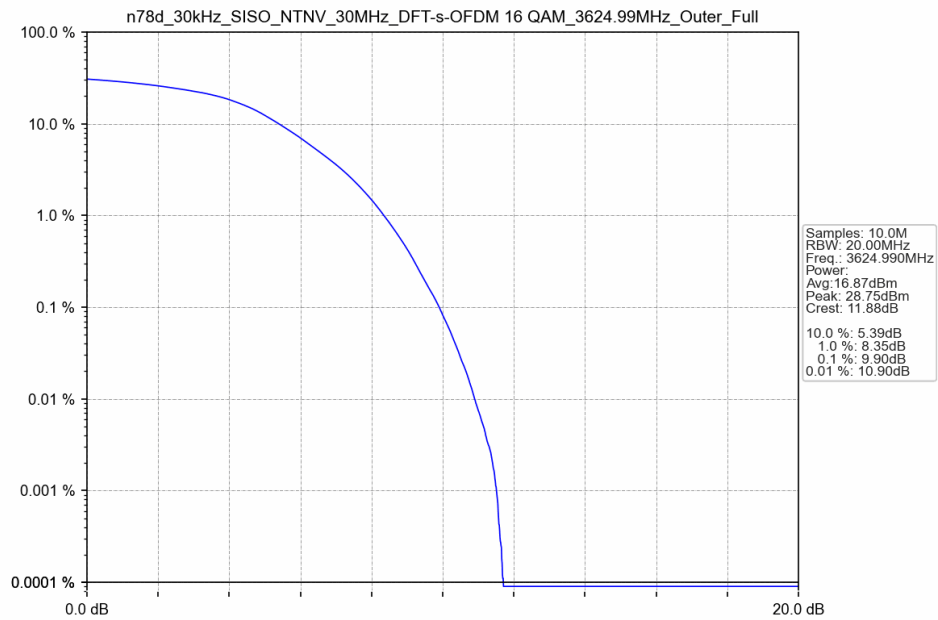
n78d 30kHz SISO NTN 30MHz DFT-s-OFDM QPSK 3684.99MHz Outer Full



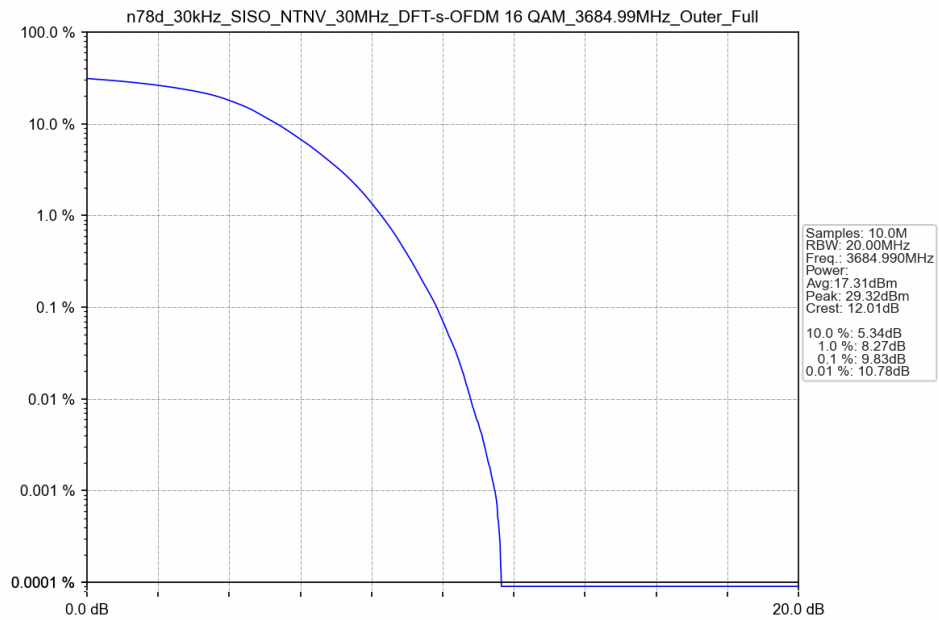
n78d 30kHz SISO NTN 30MHz DFT-s-OFDM 16 QAM 3565.02MHz Outer Full



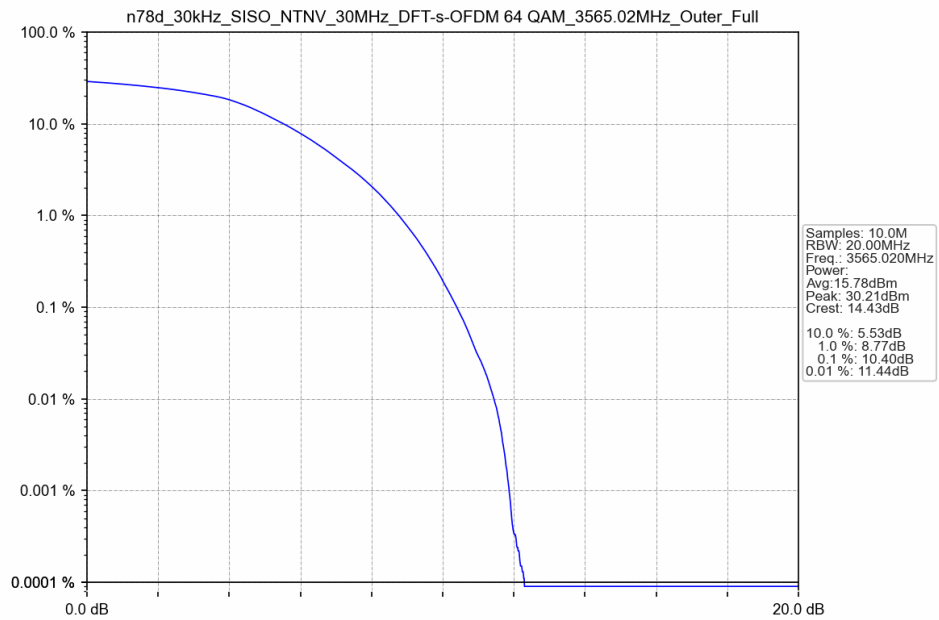
n78d 30kHz SISO NTN 30MHz DFT-s-OFDM 16 QAM 3624.99MHz Outer Full



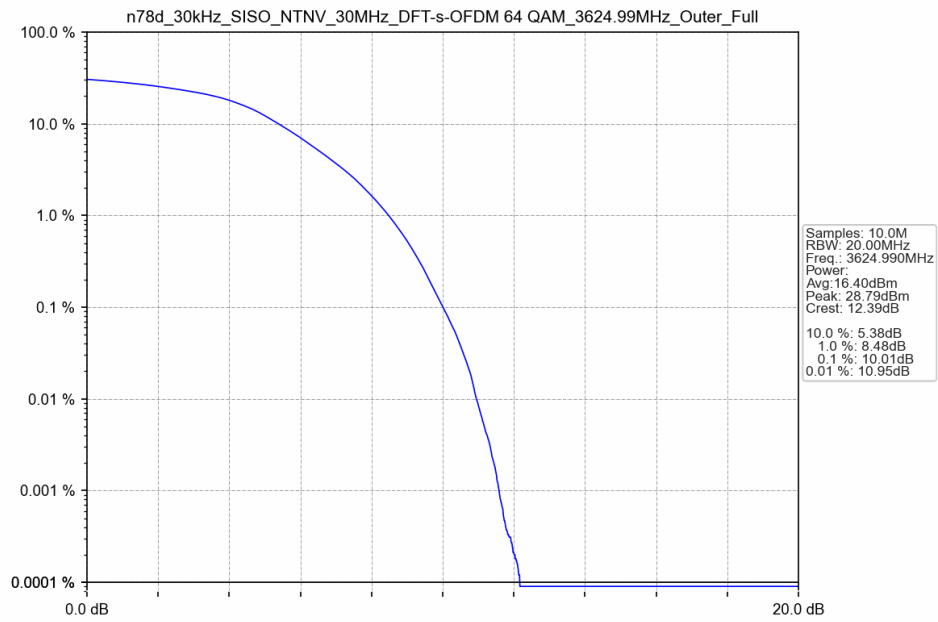
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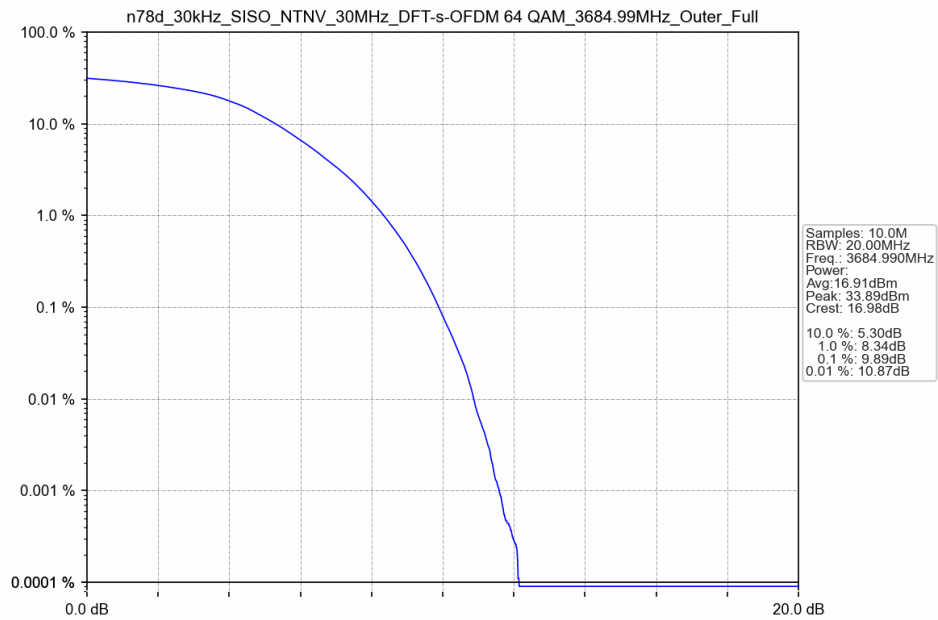
n78d 30kHz SISO NTN 30MHz DFT-s-OFDM 64 QAM 3565.02MHz Outer Full



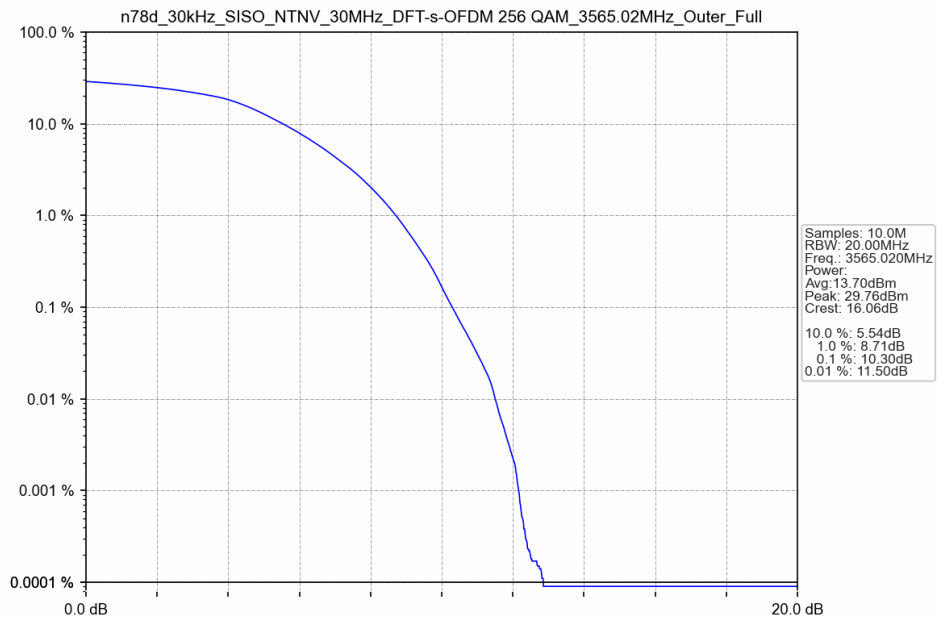
n78d 30kHz SISO NTN 30MHz DFT-s-OFDM 64 QAM 3624.99MHz Outer Full



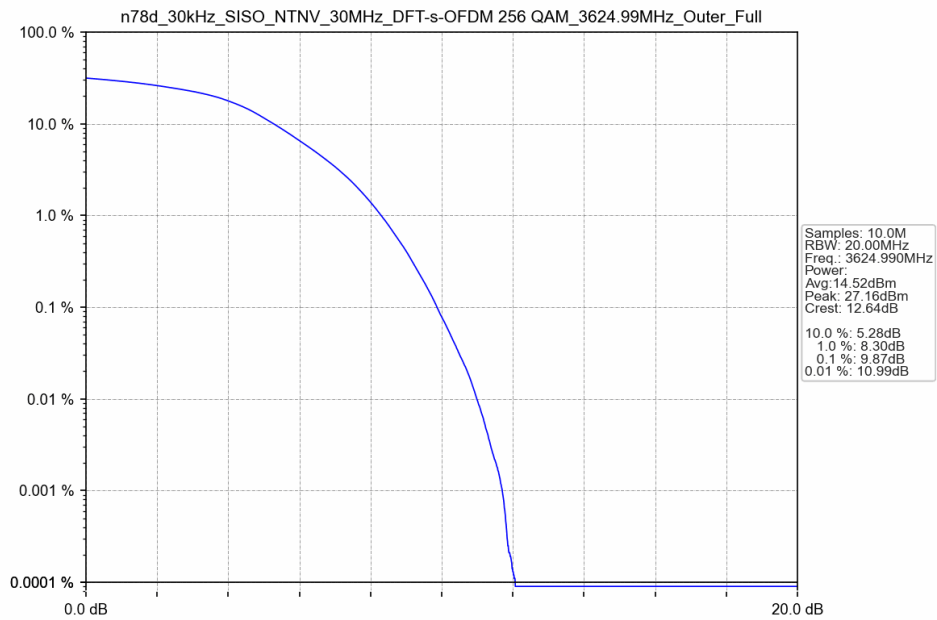
n78d 30kHz SISO NTN 30MHz DFT-s-OFDM 64 QAM 3684.99MHz Outer Full



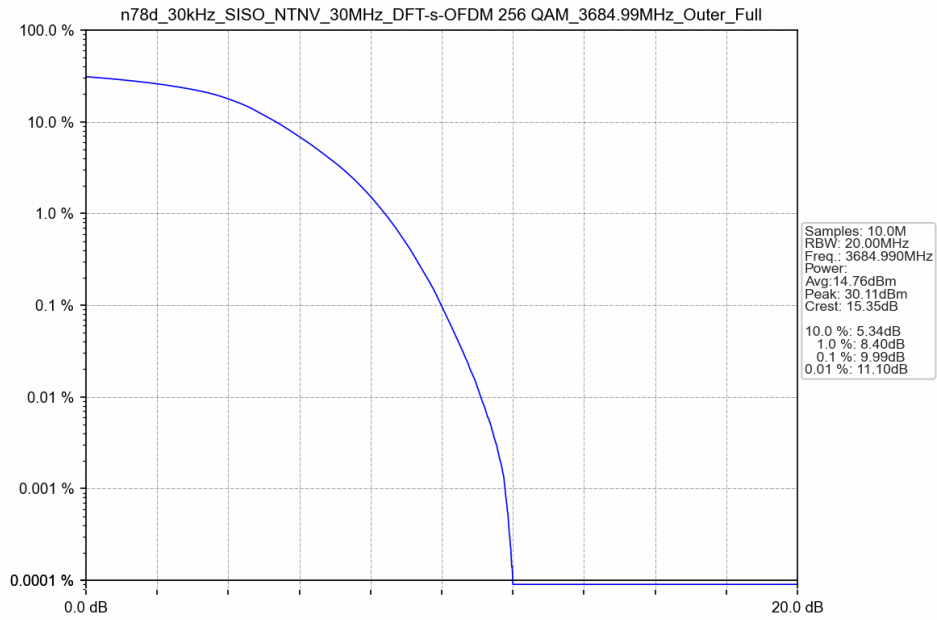
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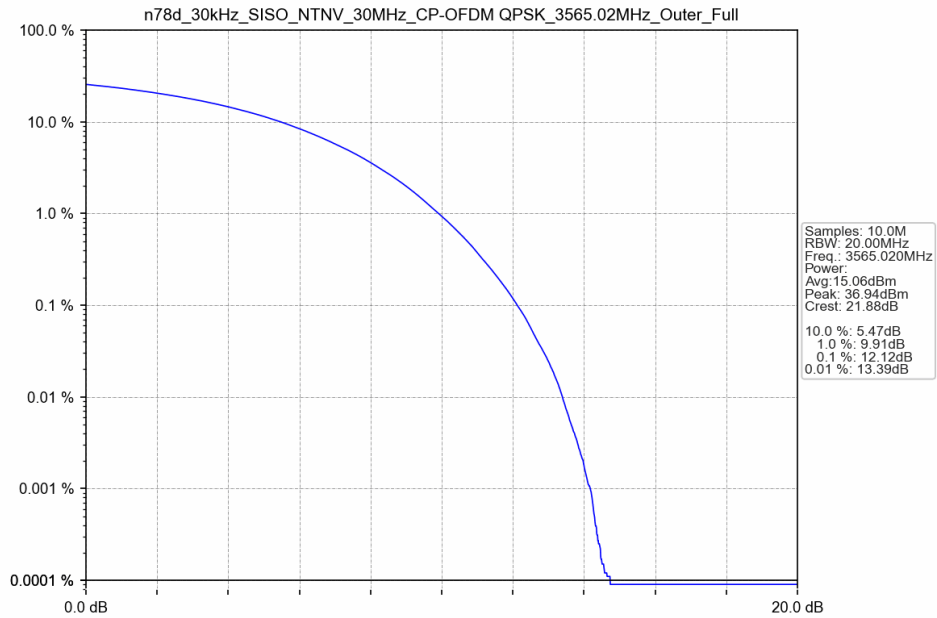
n78d 30kHz SISO NTN 30MHz DFT-s-OFDM 256 QAM 3624.99MHz Outer Full



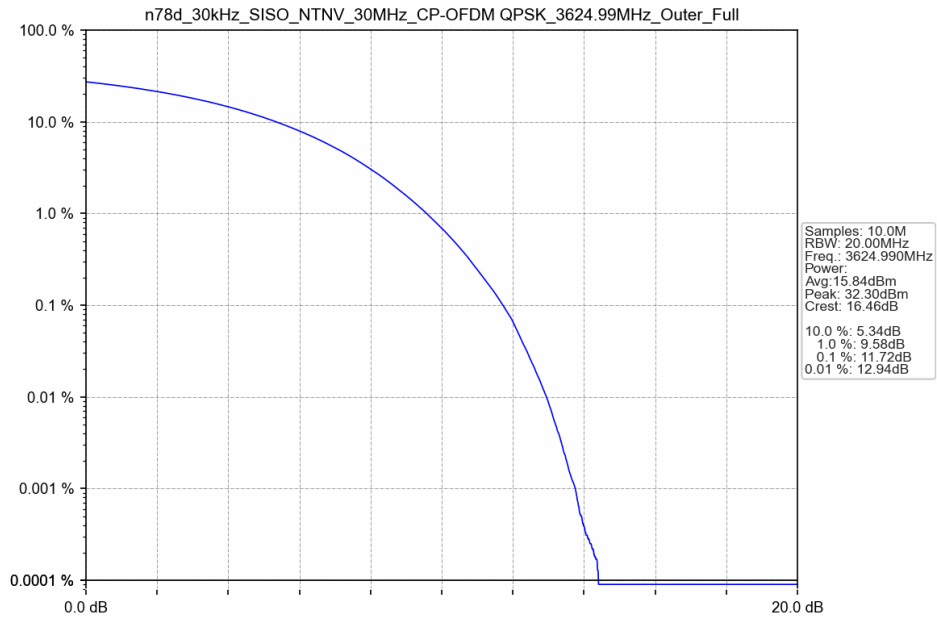
n78d 30kHz SISO NTN 30MHz DFT-s-OFDM 256 QAM 3684.99MHz Outer Full



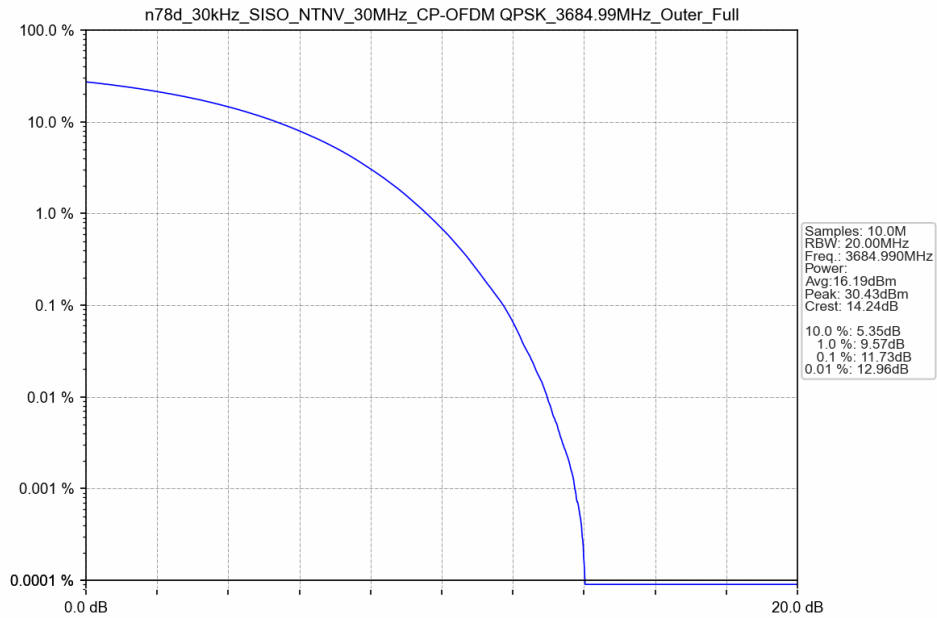
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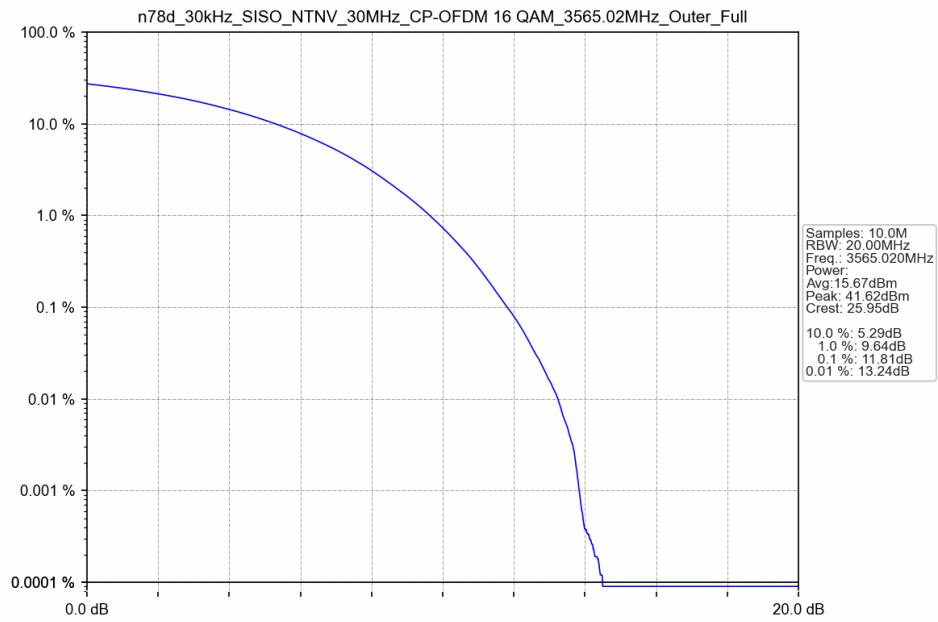
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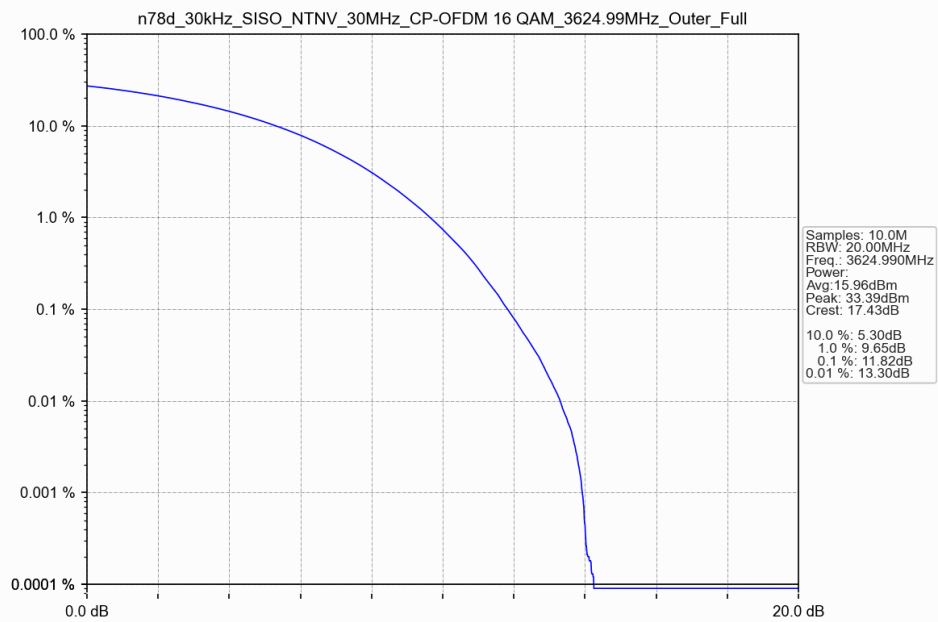
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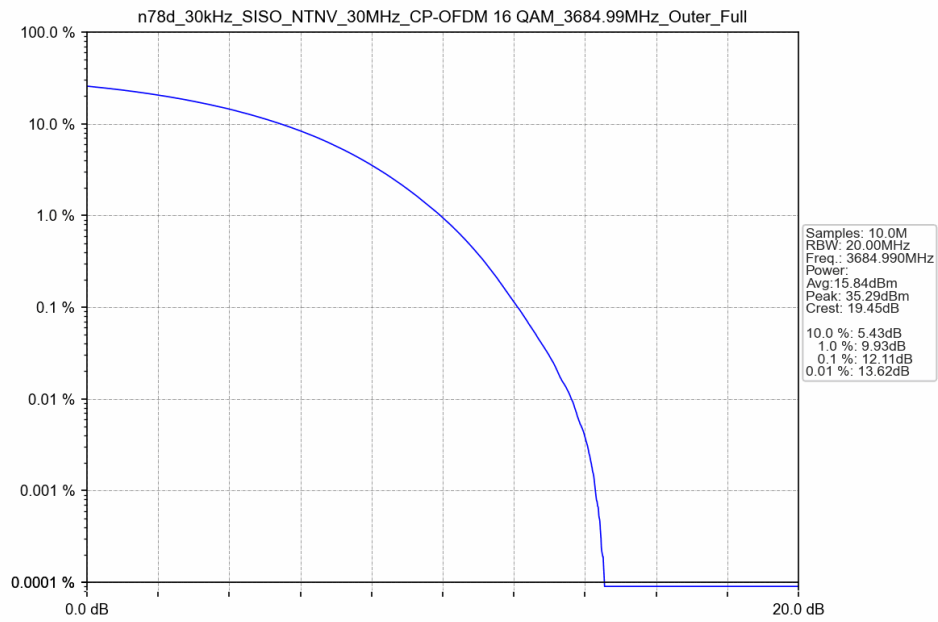
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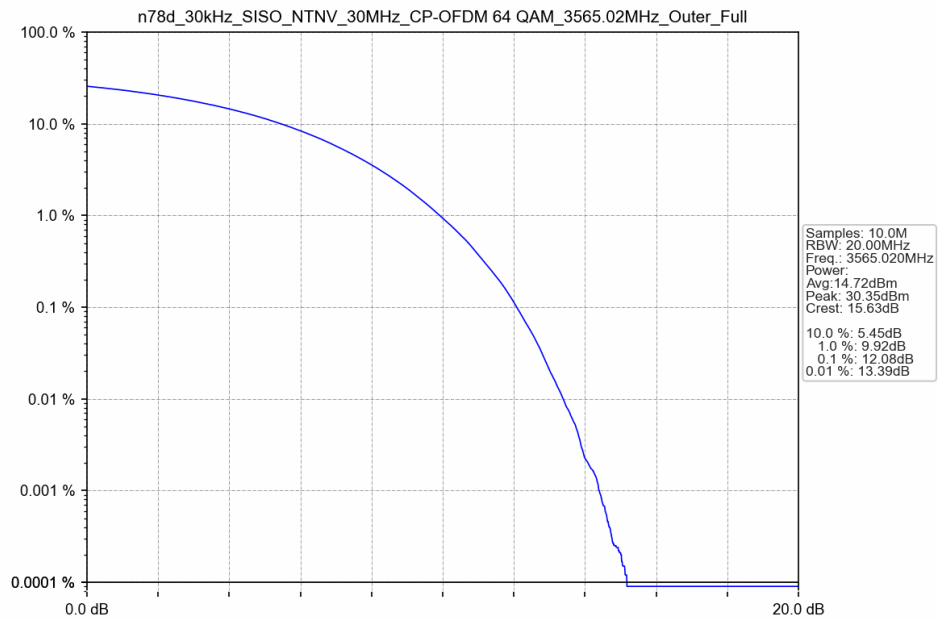
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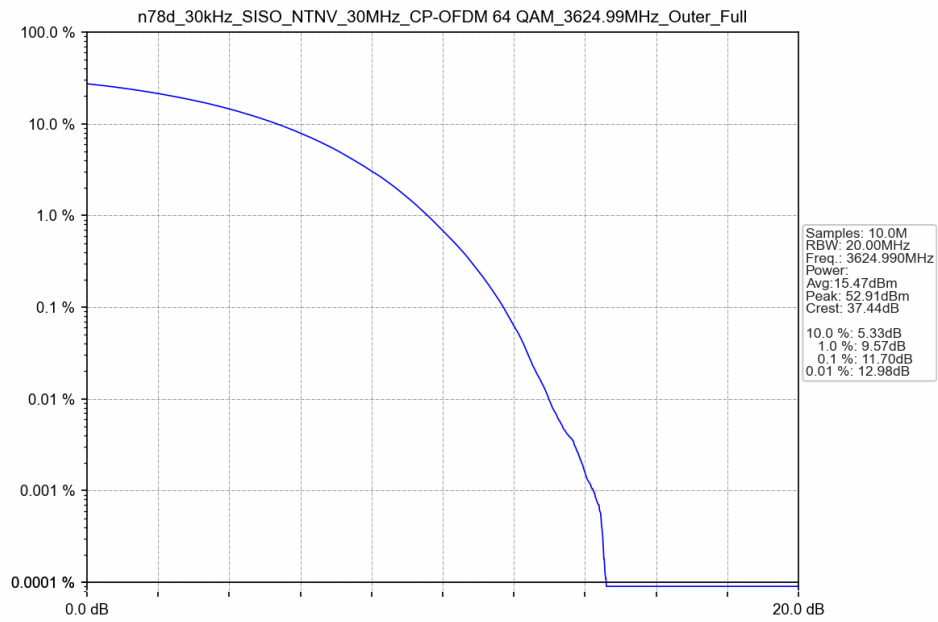
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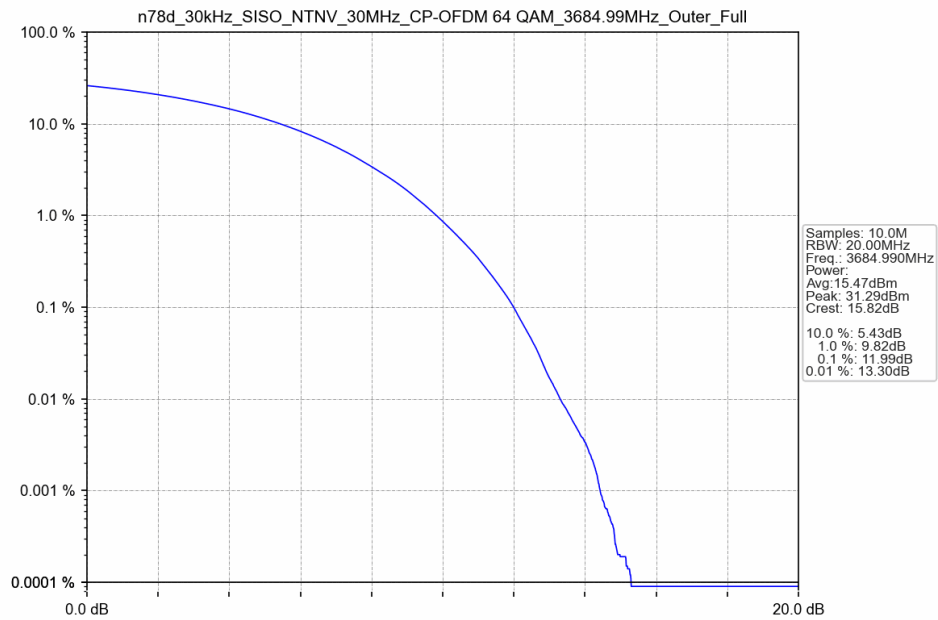
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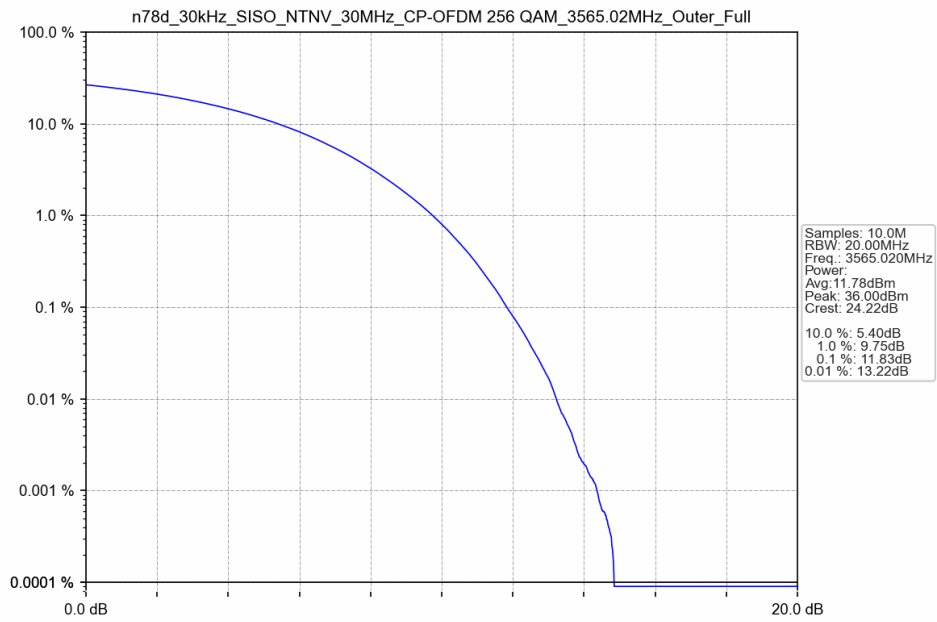
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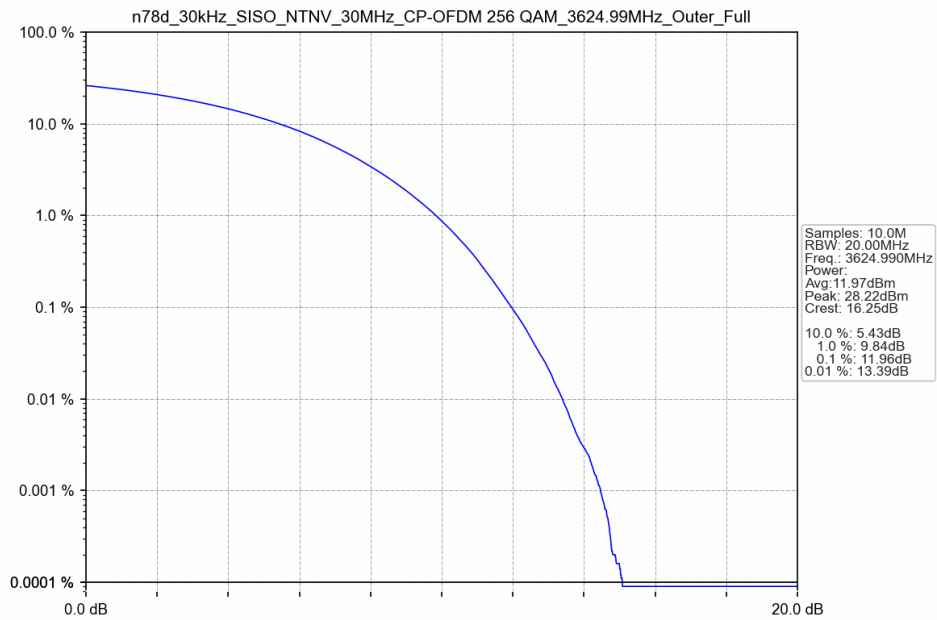
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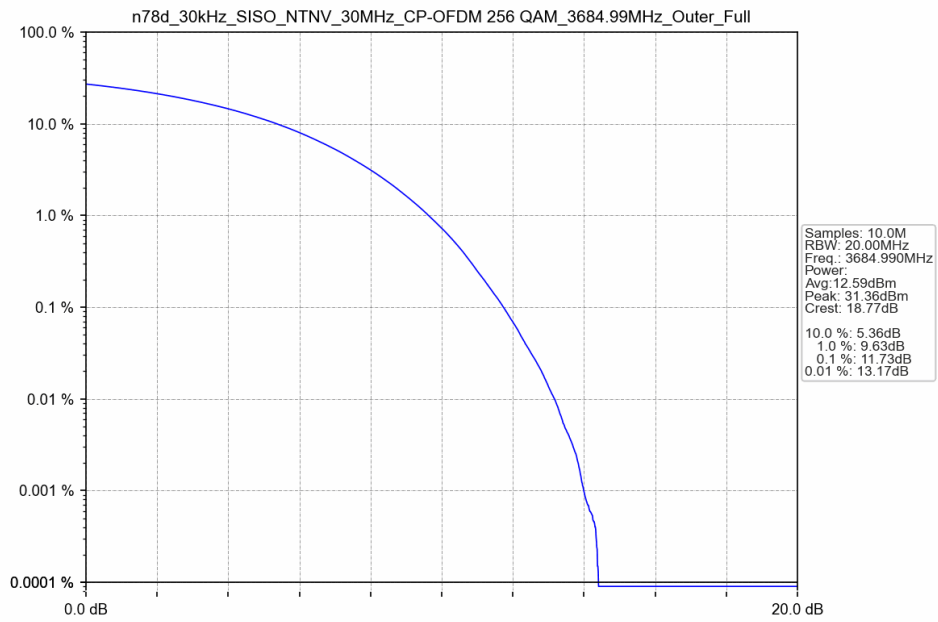
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n78d 30kHz SISO NTN 30MHz CP-OFDM 256 QAM 3624.99MHz Outer Full



n78d 30kHz SISO NTN 30MHz CP-OFDM 256 QAM 3684.99MHz Outer Full

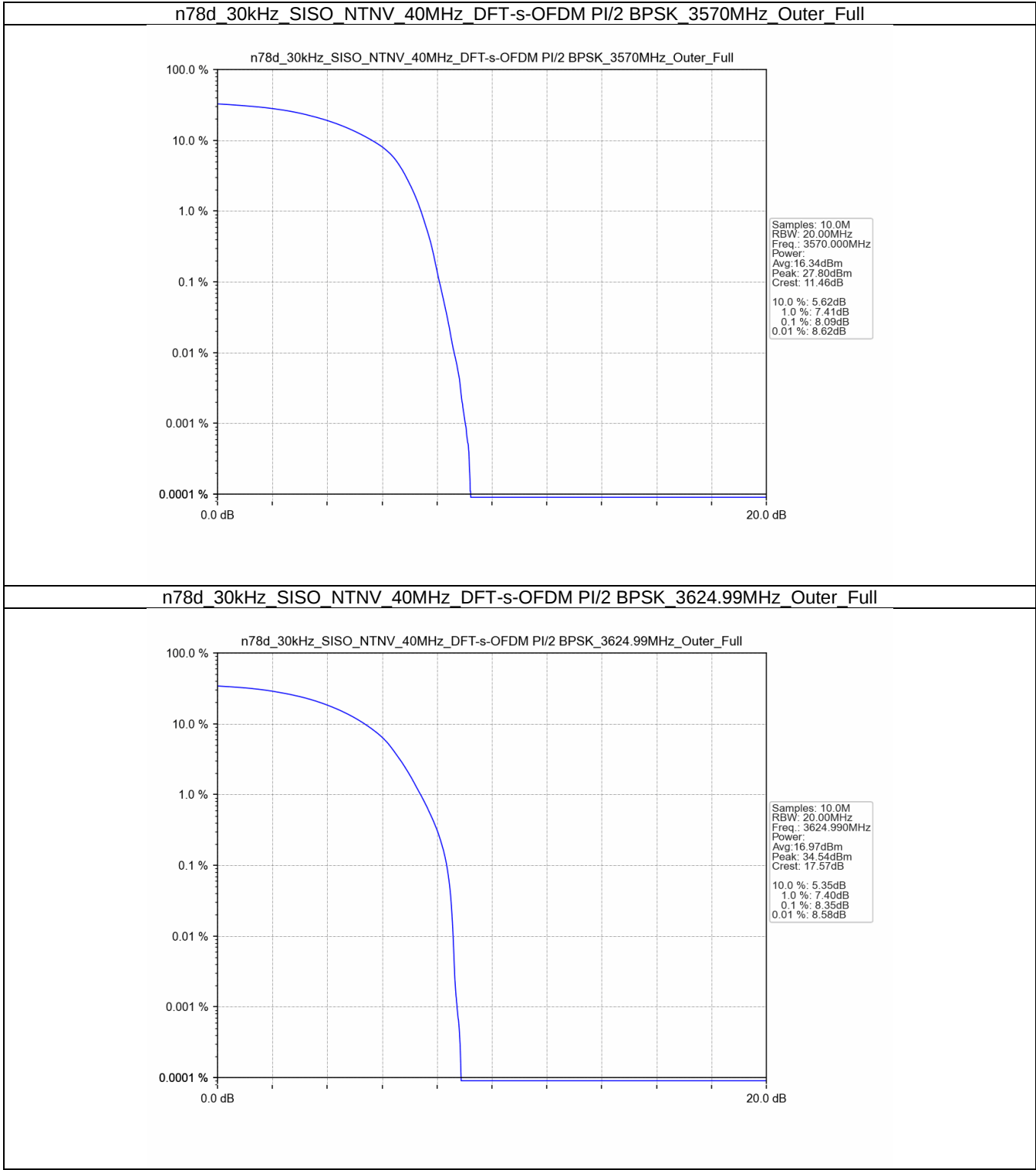


4.3 30k_SISO_40MHz_NTNV

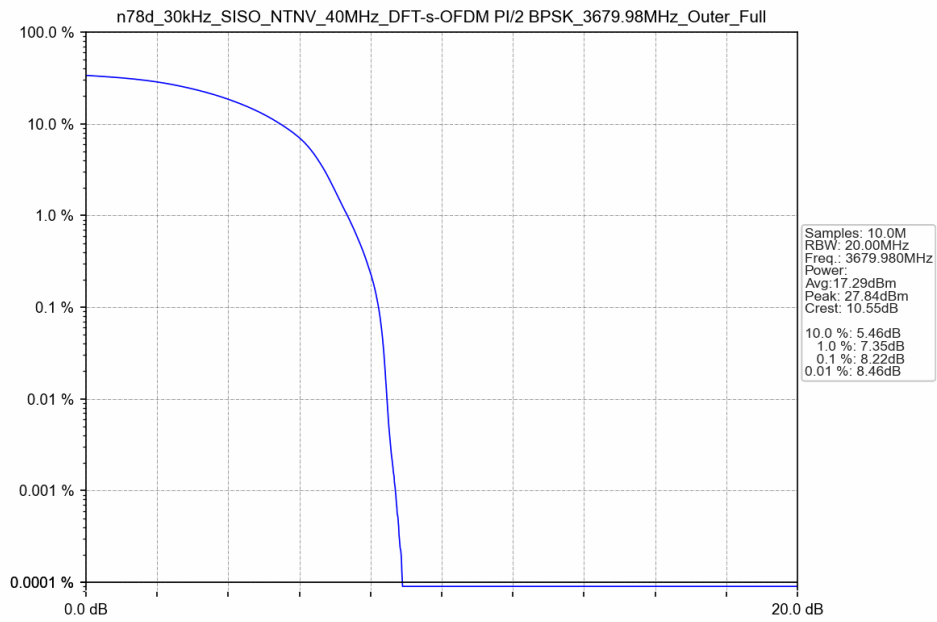
4.3.1 Test Result

5G NR n78d SCS=30kHz SISO 40MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3570	Outer_Full	8.09	/	/	<=13	Pass
	3624.99	Outer_Full	8.35	/	/	<=13	Pass
	3679.98	Outer_Full	8.22	/	/	<=13	Pass
DFT-s-OFDM QPSK	3570	Outer_Full	9.55	/	/	<=13	Pass
	3624.99	Outer_Full	9.06	/	/	<=13	Pass
	3679.98	Outer_Full	8.93	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3570	Outer_Full	10.06	/	/	<=13	Pass
	3624.99	Outer_Full	10.13	/	/	<=13	Pass
	3679.98	Outer_Full	10.18	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3570	Outer_Full	10.25	/	/	<=13	Pass
	3624.99	Outer_Full	10.17	/	/	<=13	Pass
	3679.98	Outer_Full	10.06	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3570	Outer_Full	10.64	/	/	<=13	Pass
	3624.99	Outer_Full	10.36	/	/	<=13	Pass
	3679.98	Outer_Full	10.31	/	/	<=13	Pass
CP-OFDM QPSK	3570	Outer_Full	12.10	/	/	<=13	Pass
	3624.99	Outer_Full	12.04	/	/	<=13	Pass
	3679.98	Outer_Full	11.45	/	/	<=13	Pass
CP-OFDM 16 QAM	3570	Outer_Full	11.87	/	/	<=13	Pass
	3624.99	Outer_Full	11.84	/	/	<=13	Pass
	3679.98	Outer_Full	12.03	/	/	<=13	Pass
CP-OFDM 64 QAM	3570	Outer_Full	11.97	/	/	<=13	Pass
	3624.99	Outer_Full	11.76	/	/	<=13	Pass
	3679.98	Outer_Full	11.31	/	/	<=13	Pass
CP-OFDM 256 QAM	3570	Outer_Full	11.66	/	/	<=13	Pass
	3624.99	Outer_Full	11.98	/	/	<=13	Pass
	3679.98	Outer_Full	11.97	/	/	<=13	Pass

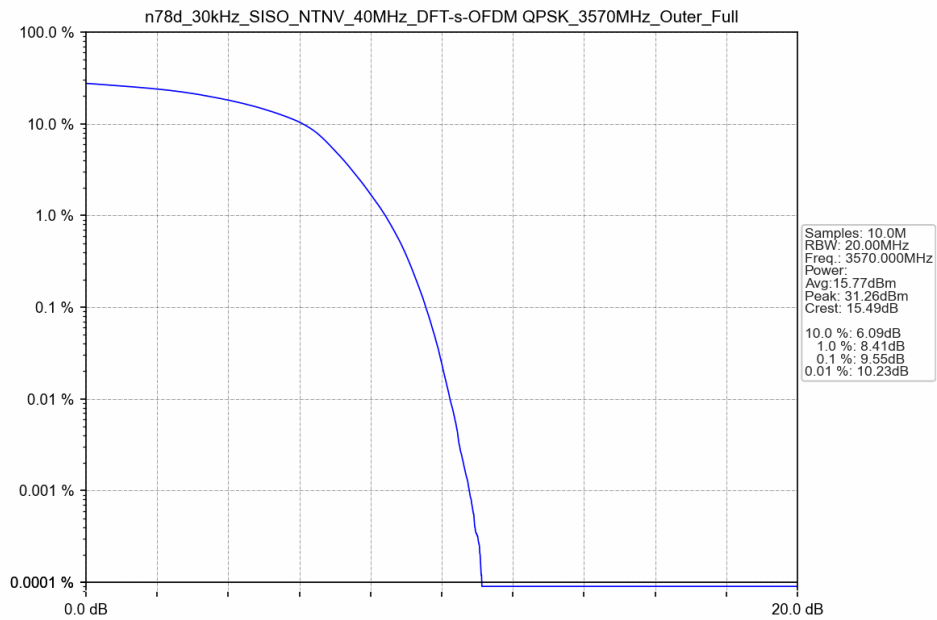
4.3.2 Test Graph



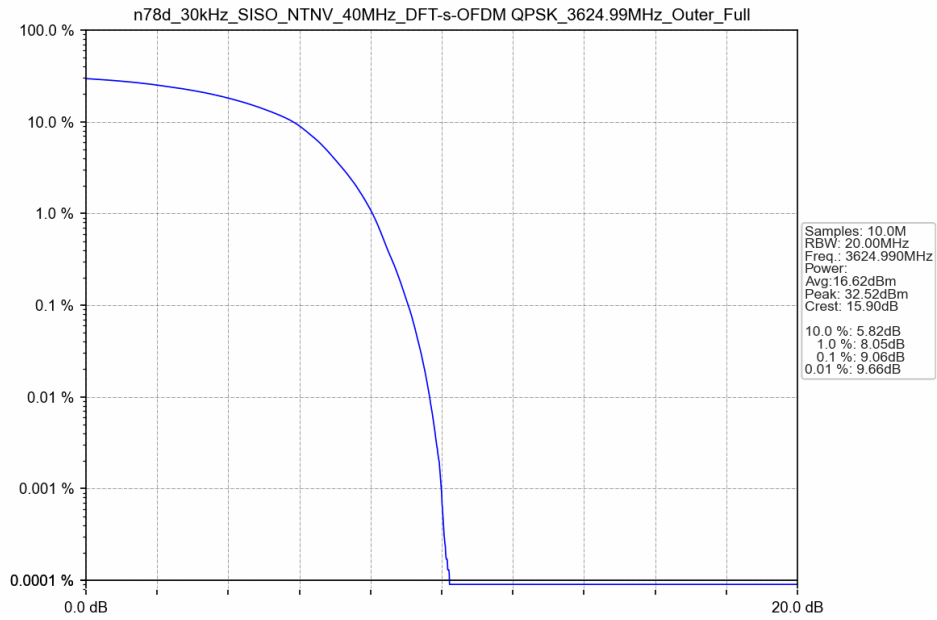
n78d 30kHz SISO NTN 40MHz DFT-s-OFDM PI/2 BPSK 3679.98MHz Outer Full



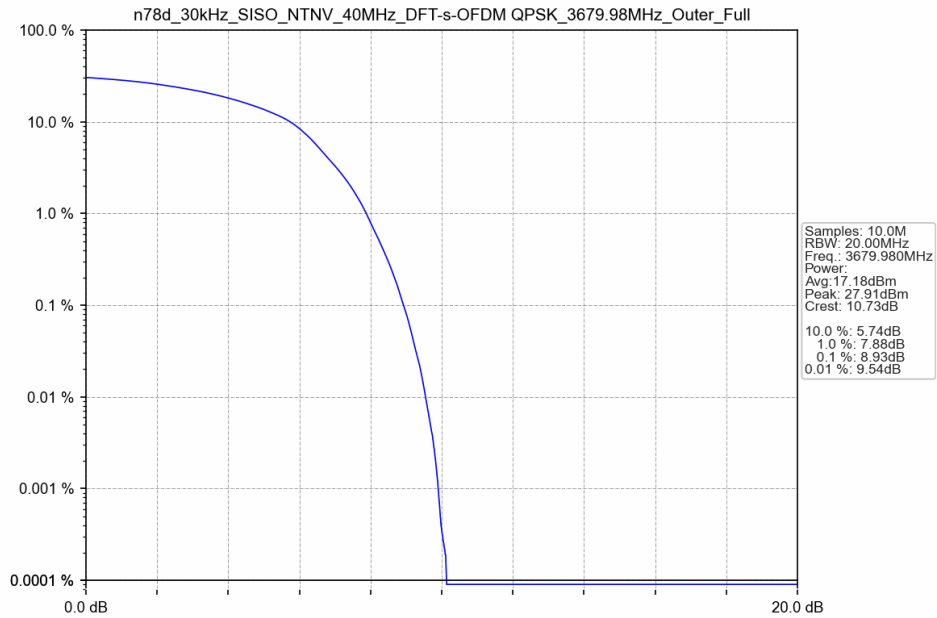
n78d 30kHz SISO NTN 40MHz DFT-s-OFDM QPSK 3570MHz Outer Full



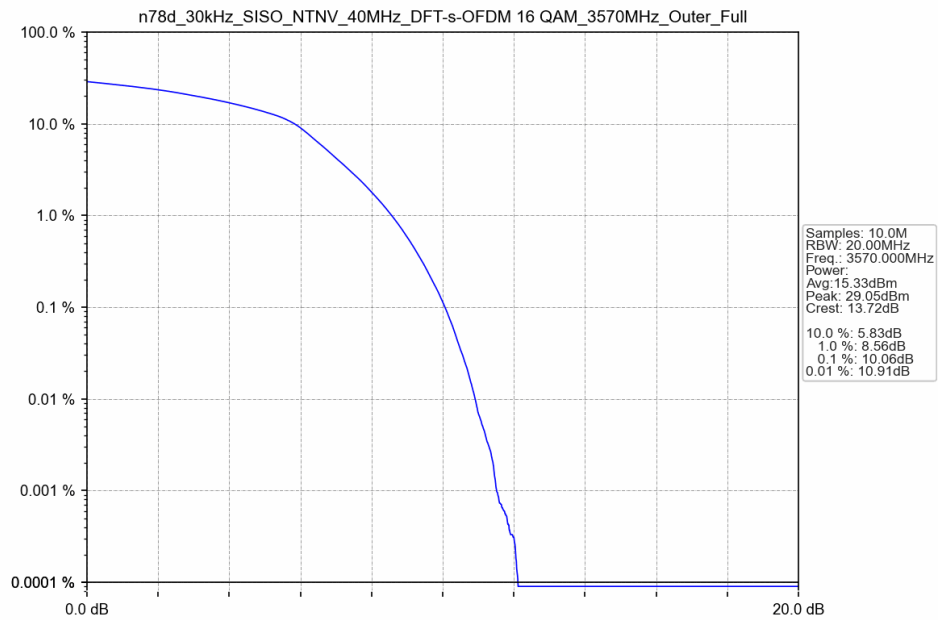
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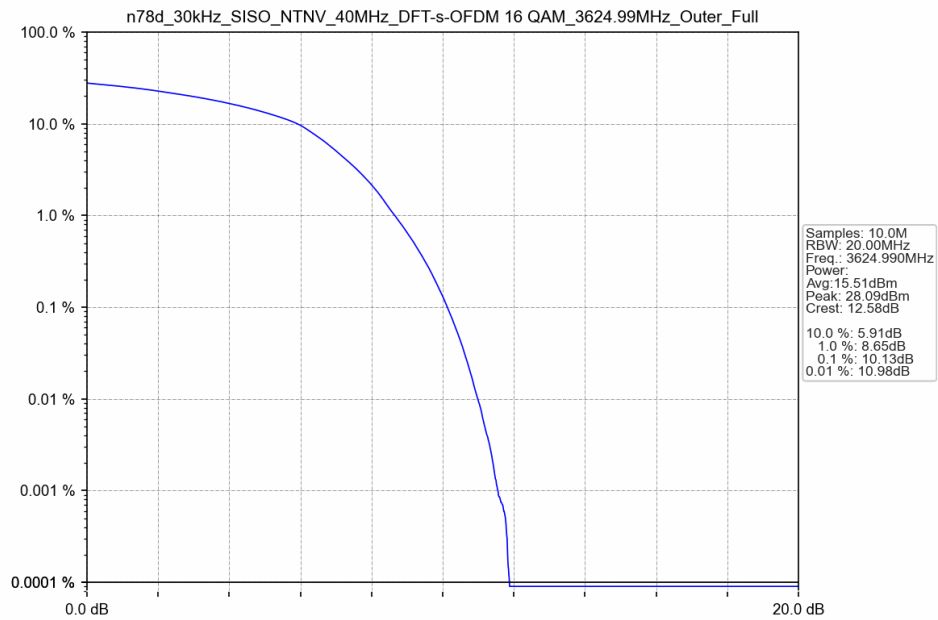
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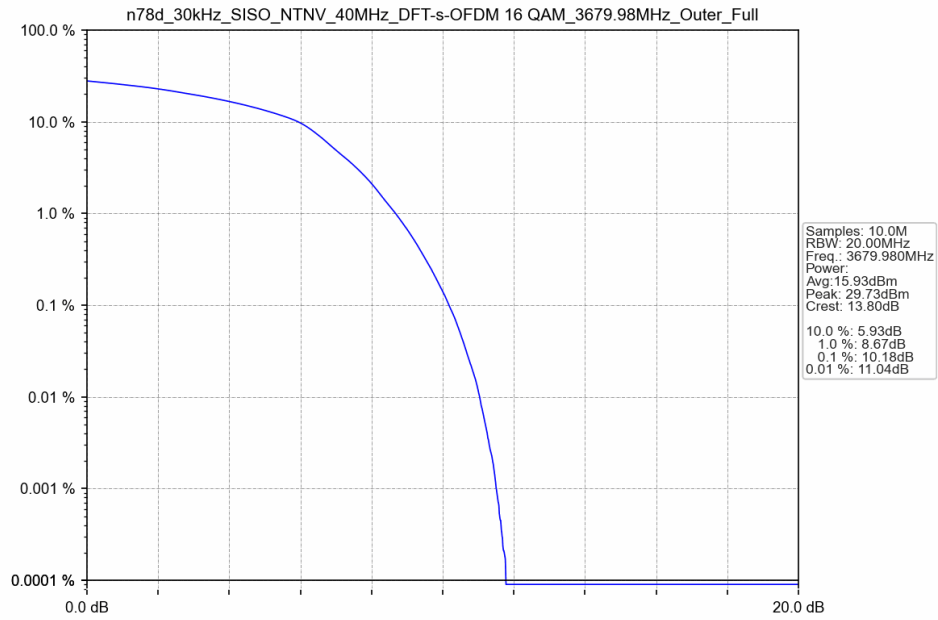
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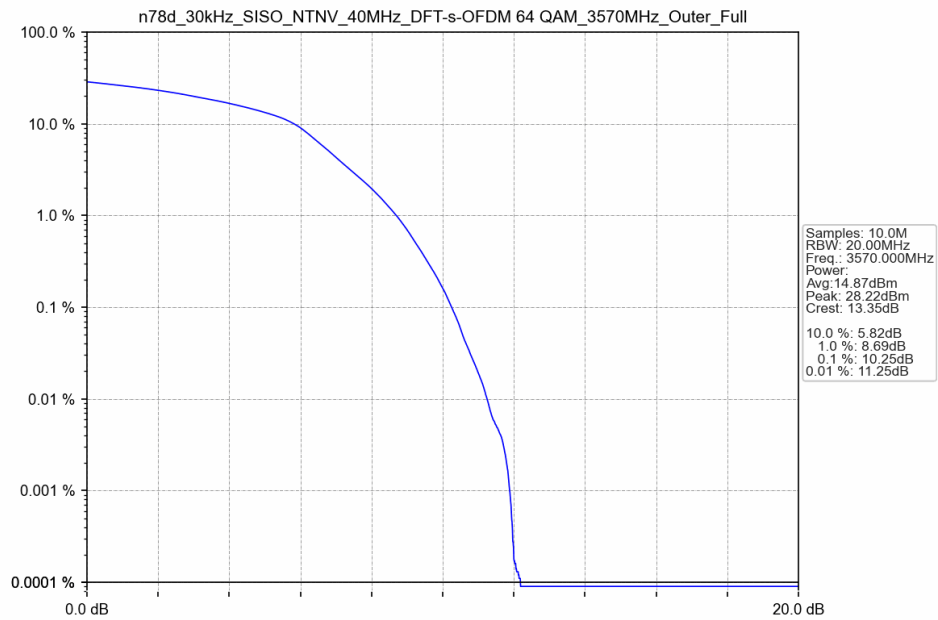
n78d 30kHz SISO NTN 40MHz DFT-s-OFDM 16 QAM 3624.99MHz Outer Full



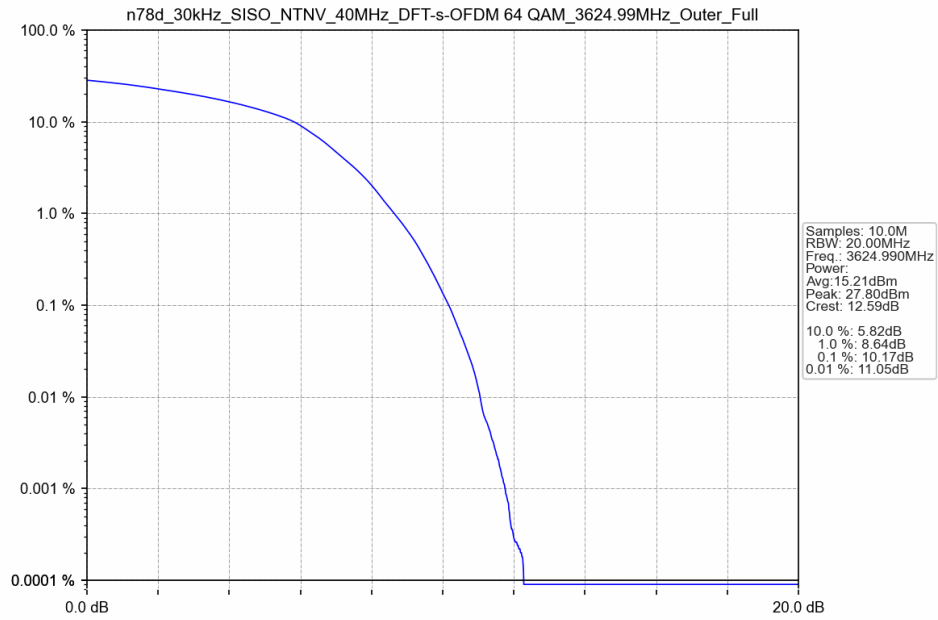
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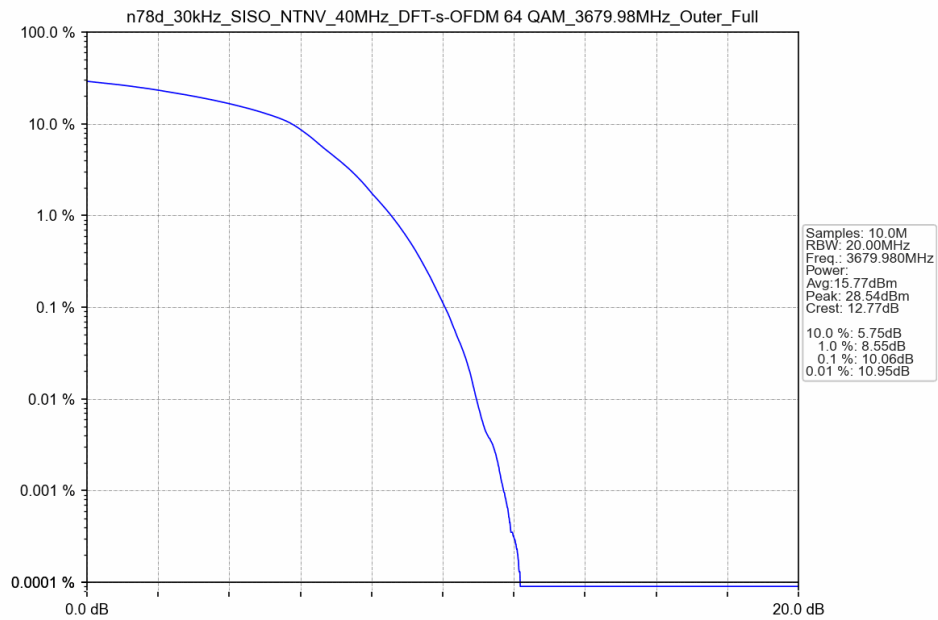
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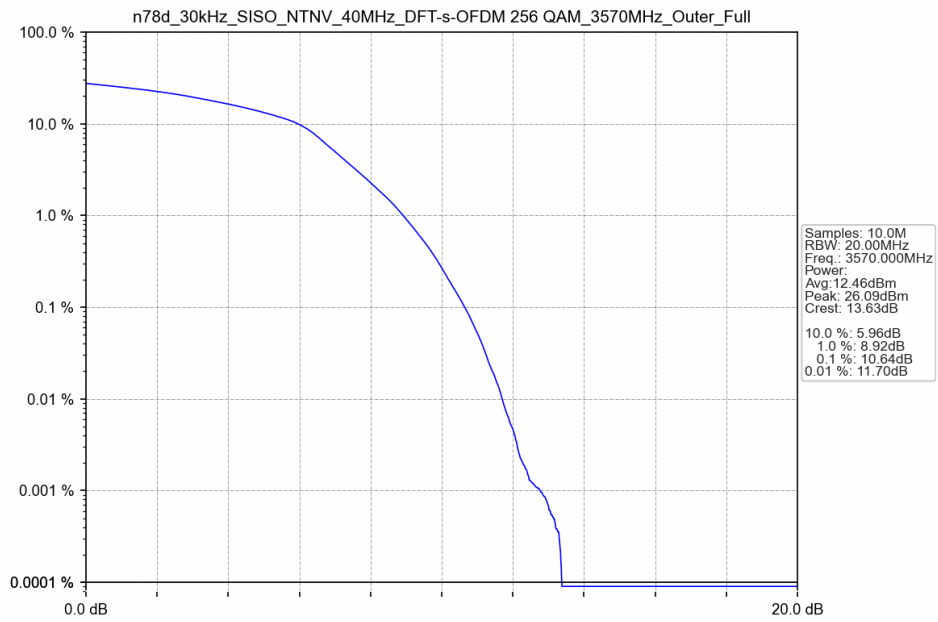
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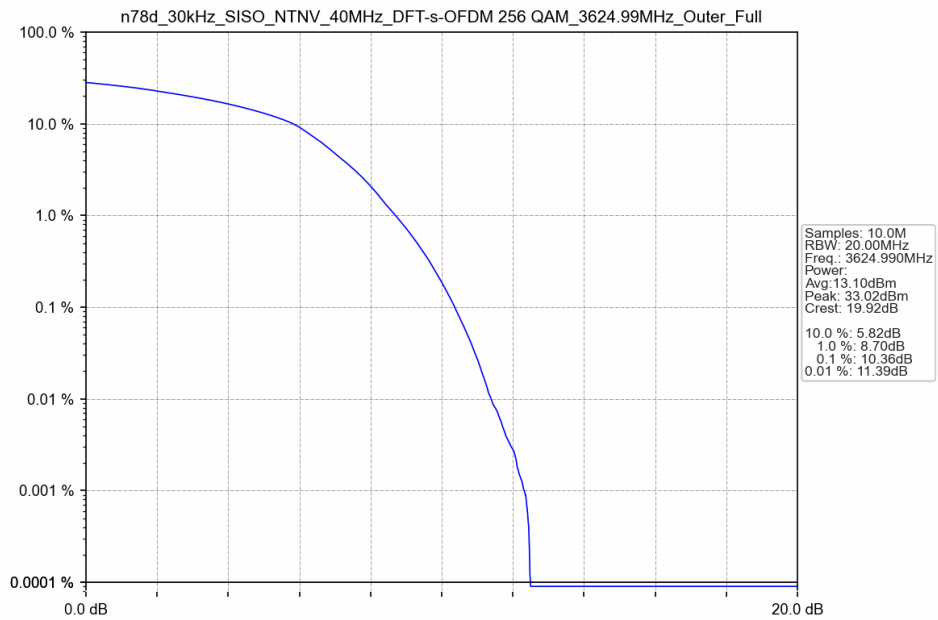
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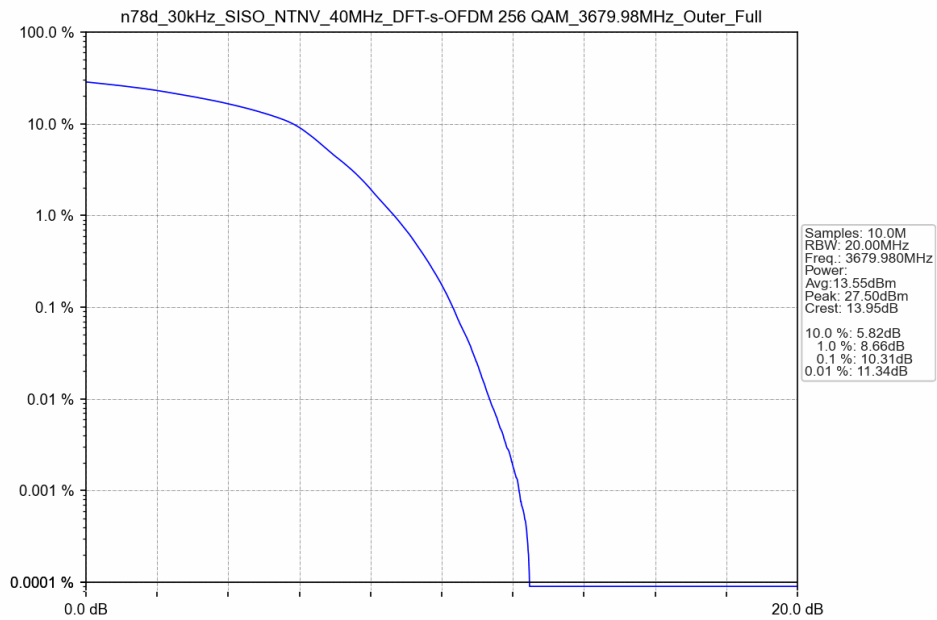
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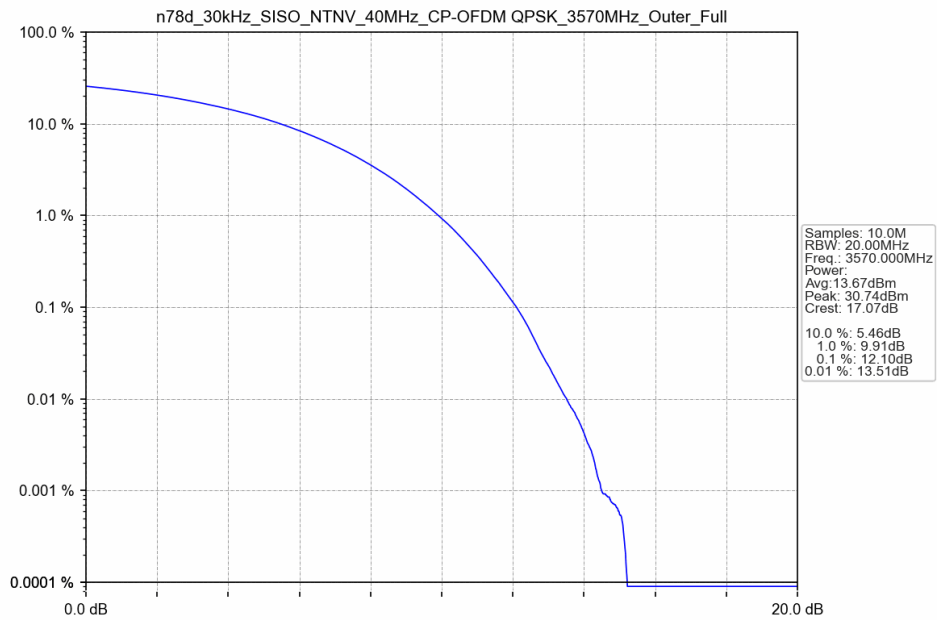
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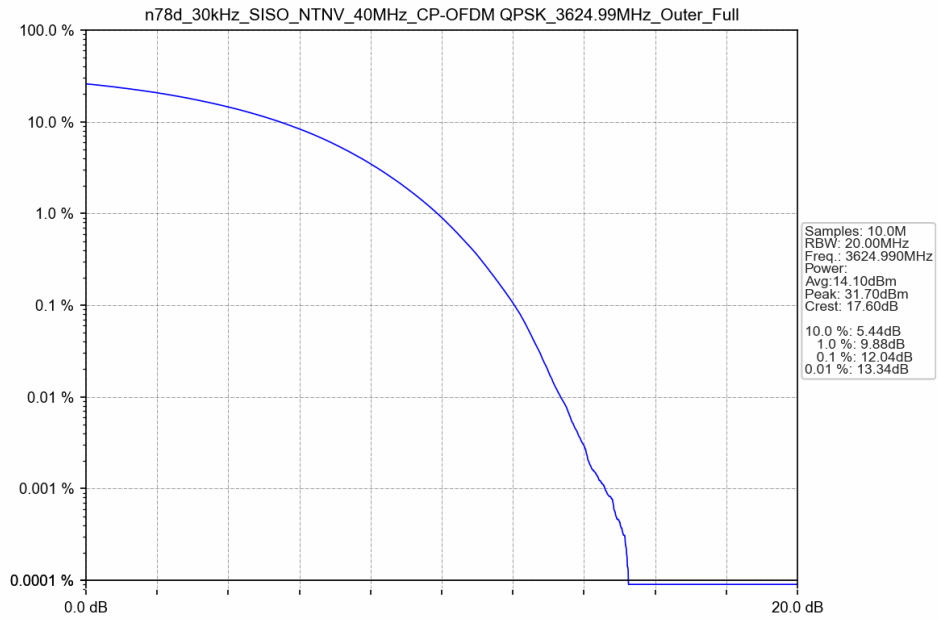
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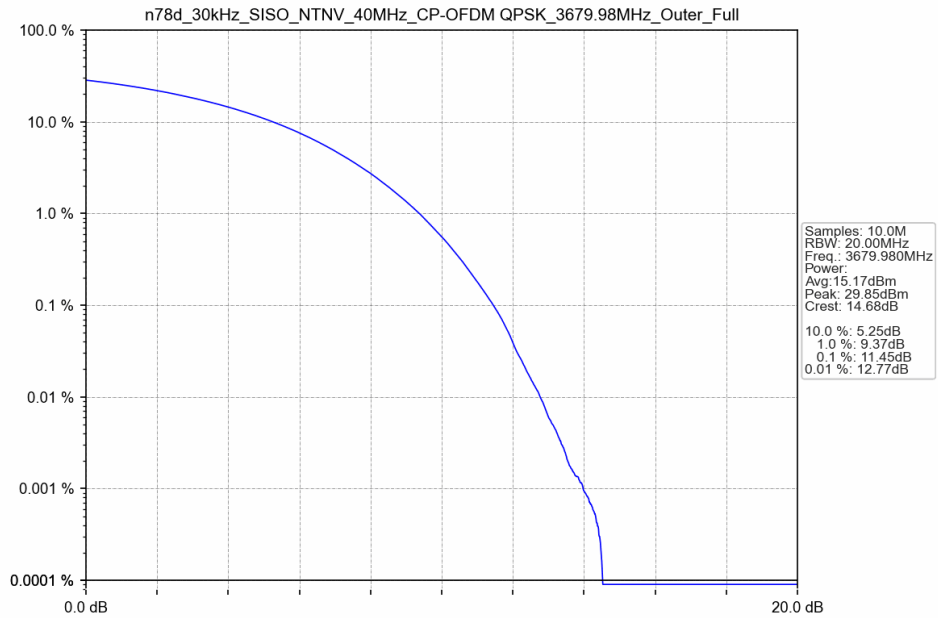
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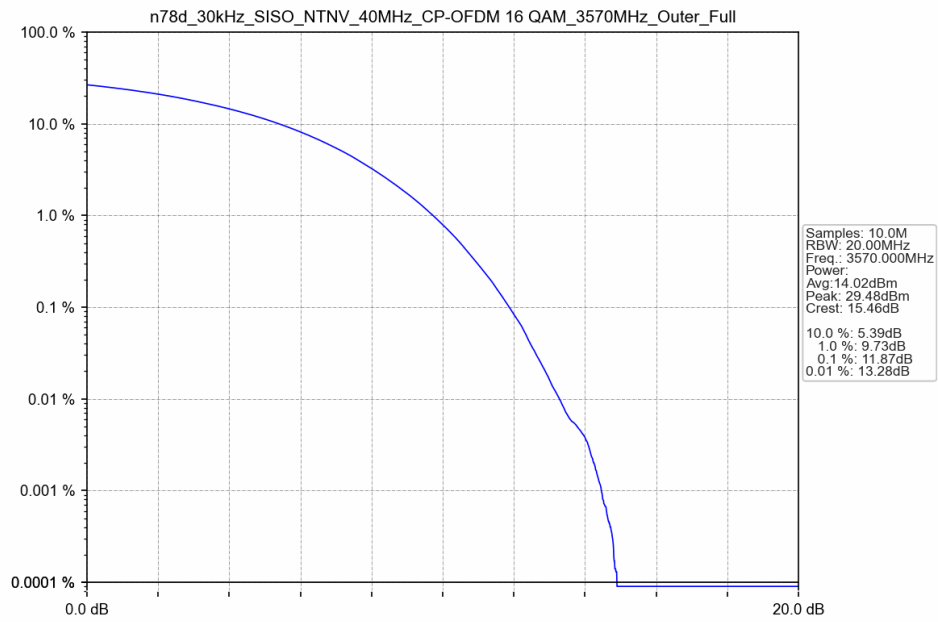
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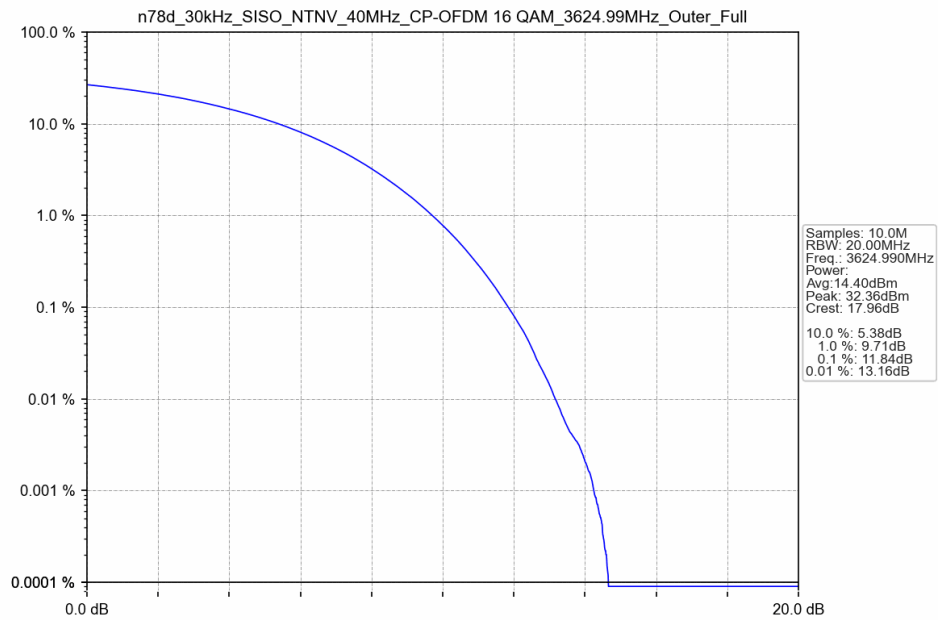
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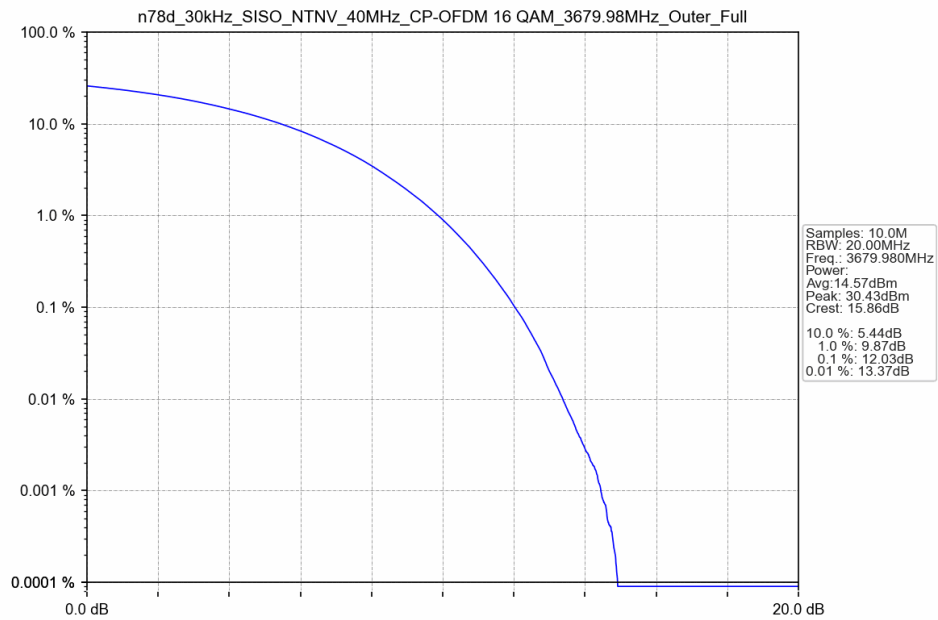
n78d 30kHz SISO NTN 40MHz CP-OFDM 16 QAM 3570MHz Outer Full



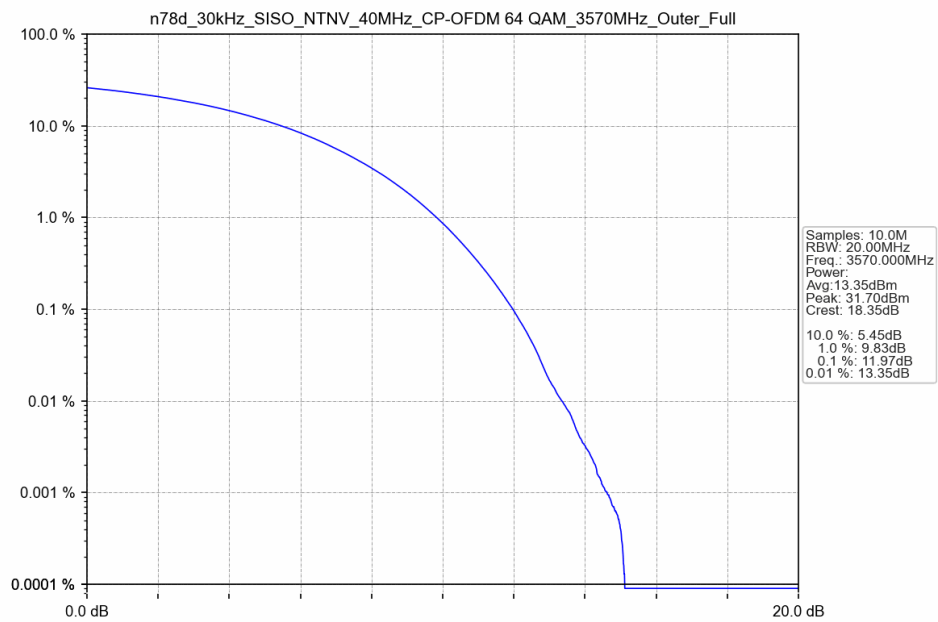
n78d 30kHz SISO NTN 40MHz CP-OFDM 16 QAM 3624.99MHz Outer Full



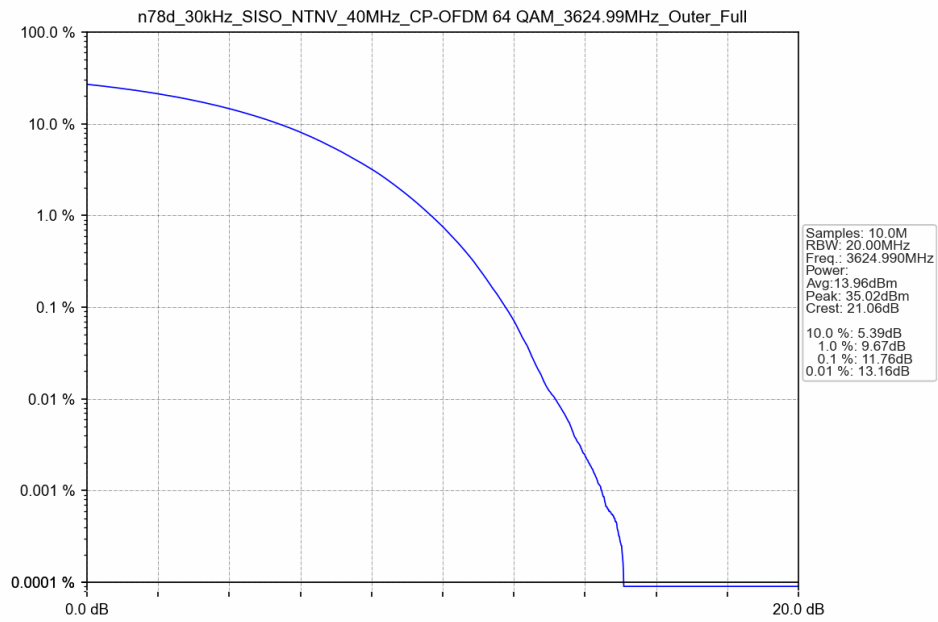
n78d 30kHz SISO NTN 40MHz CP-OFDM 16 QAM 3679.98MHz Outer Full



n78d 30kHz SISO NTN 40MHz CP-OFDM 64 QAM 3570MHz Outer Full



n78d 30kHz SISO NTN 40MHz CP-OFDM 64 QAM 3624.99MHz Outer Full



n78d 30kHz SISO NTN 40MHz CP-OFDM 64 QAM 3679.98MHz Outer Full

