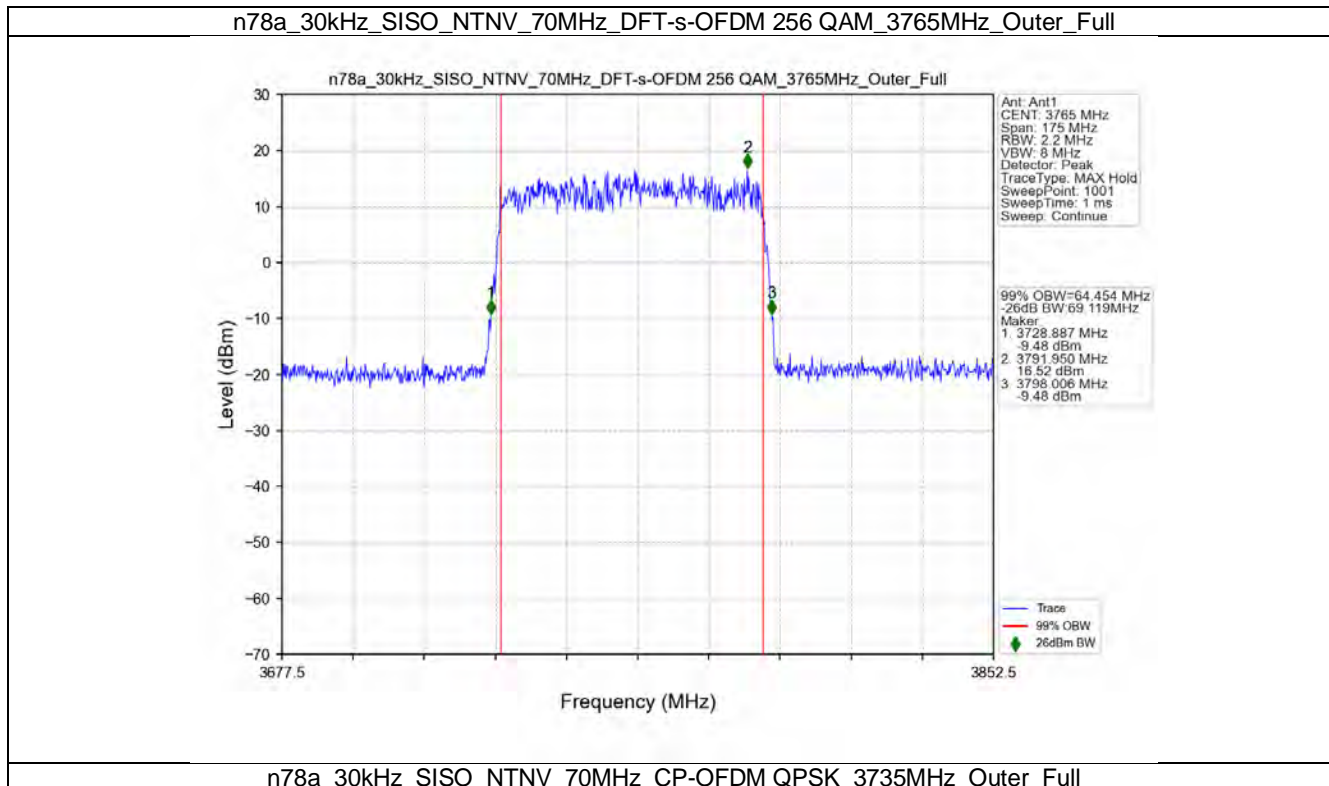




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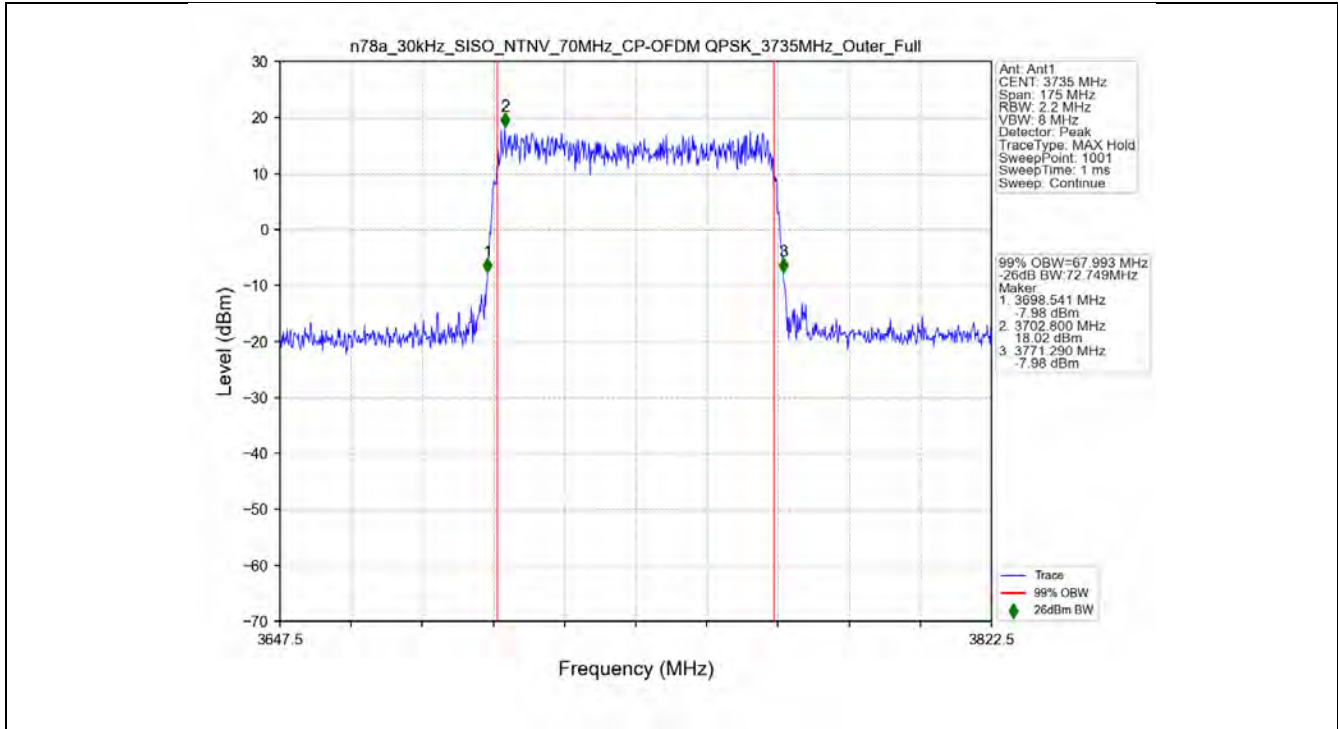


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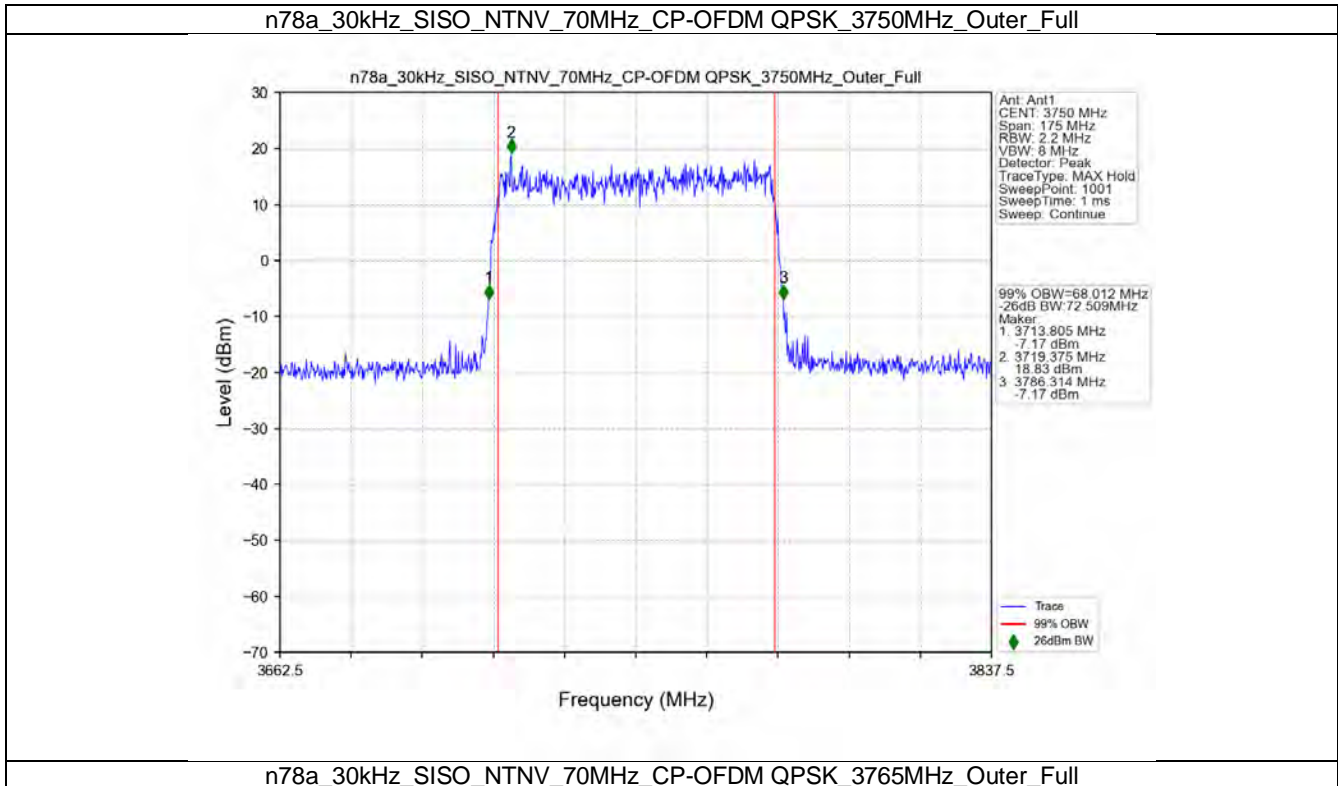


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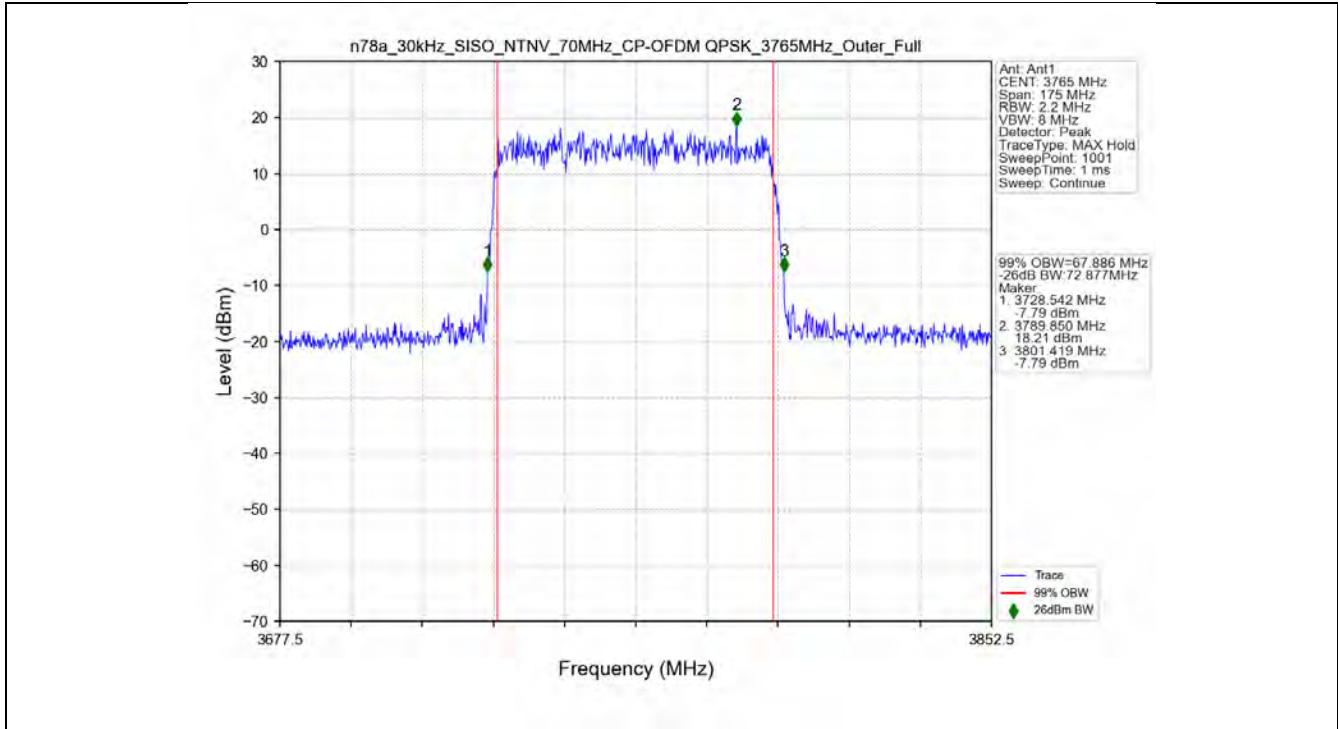


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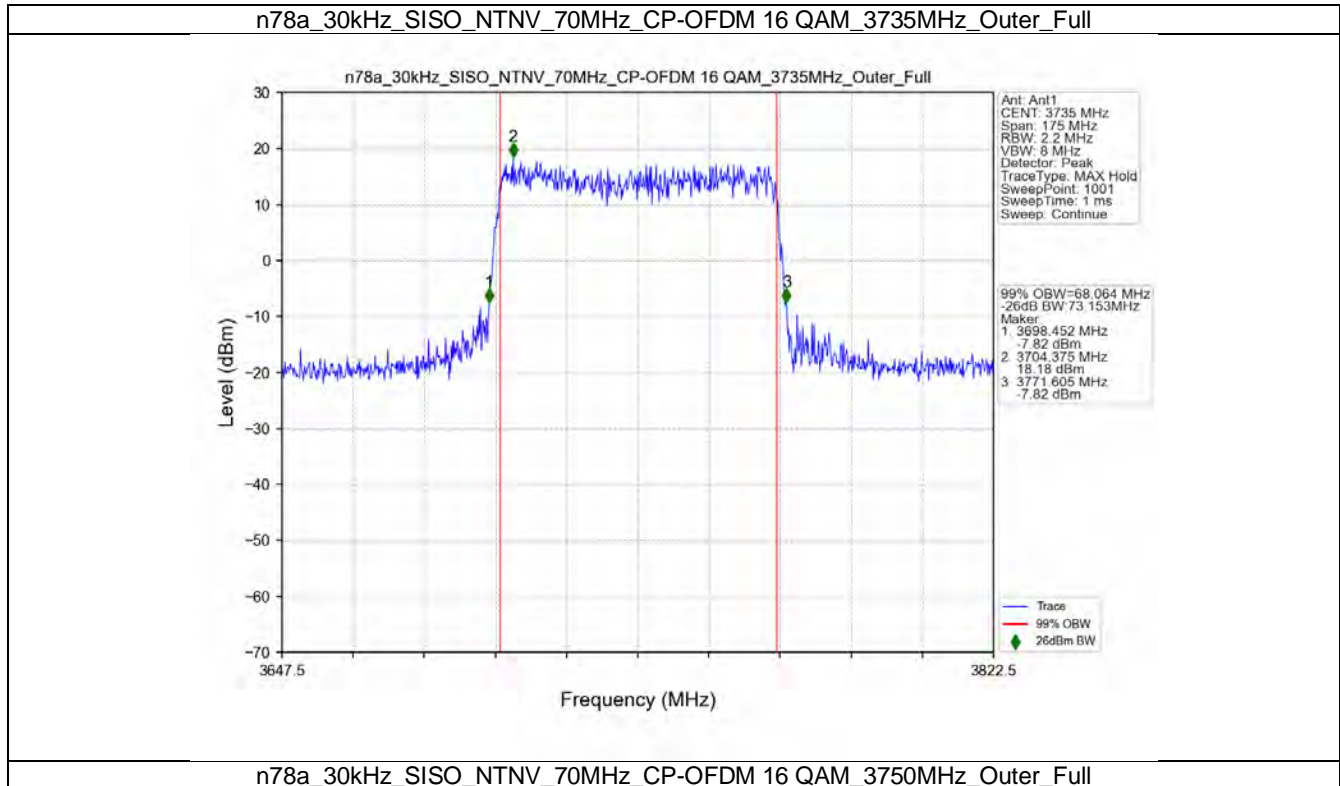


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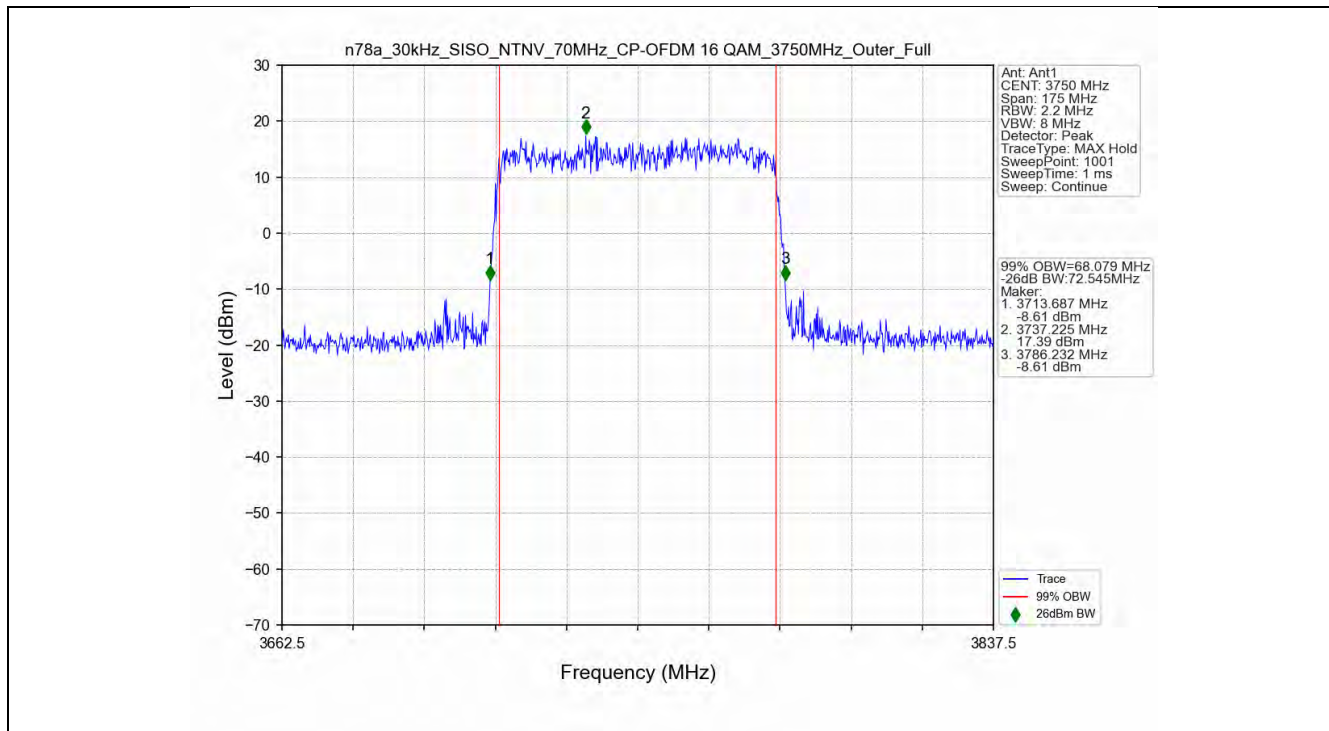
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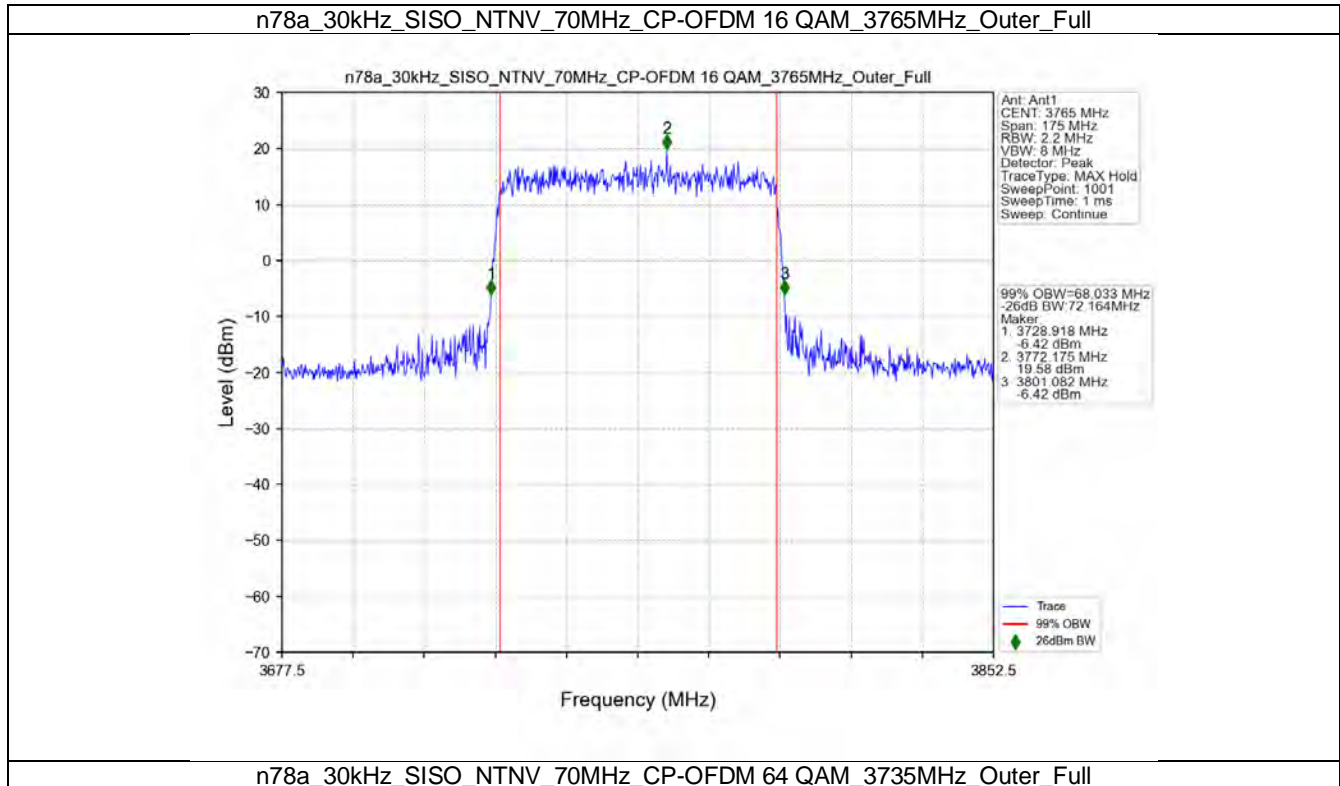


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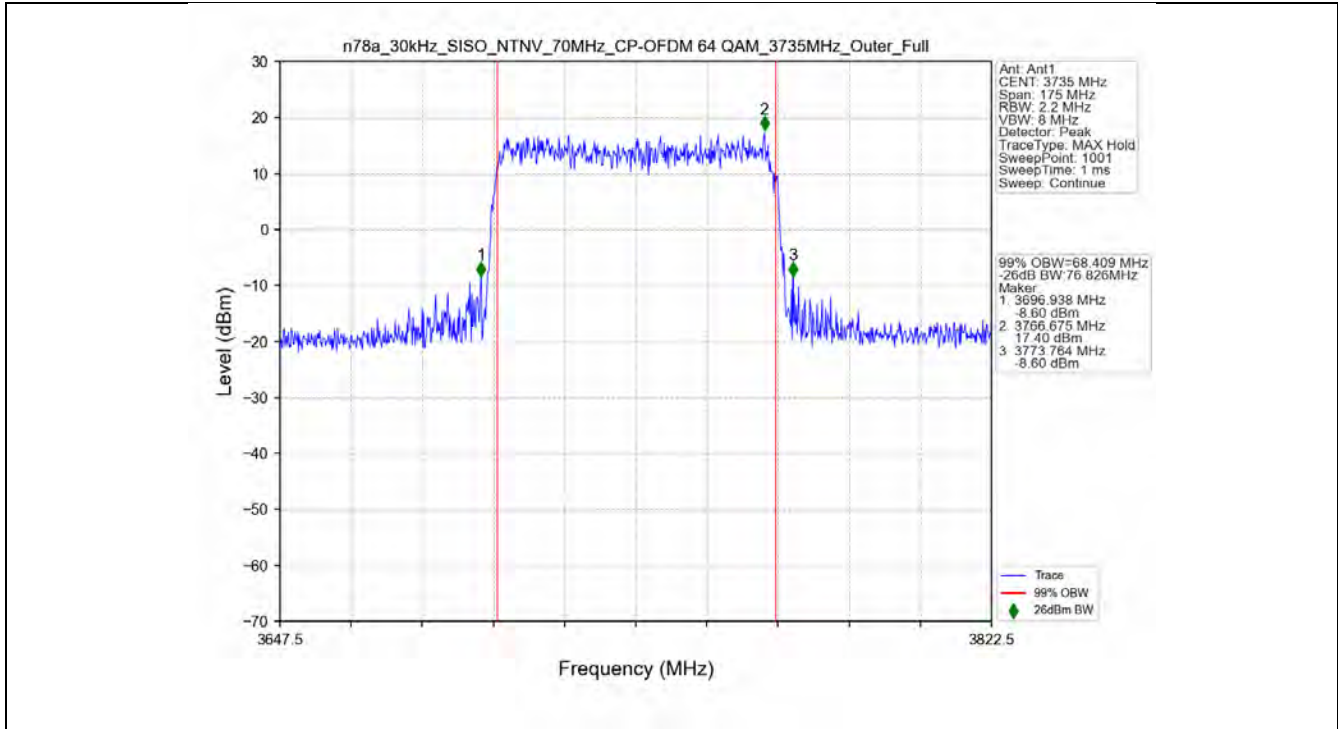


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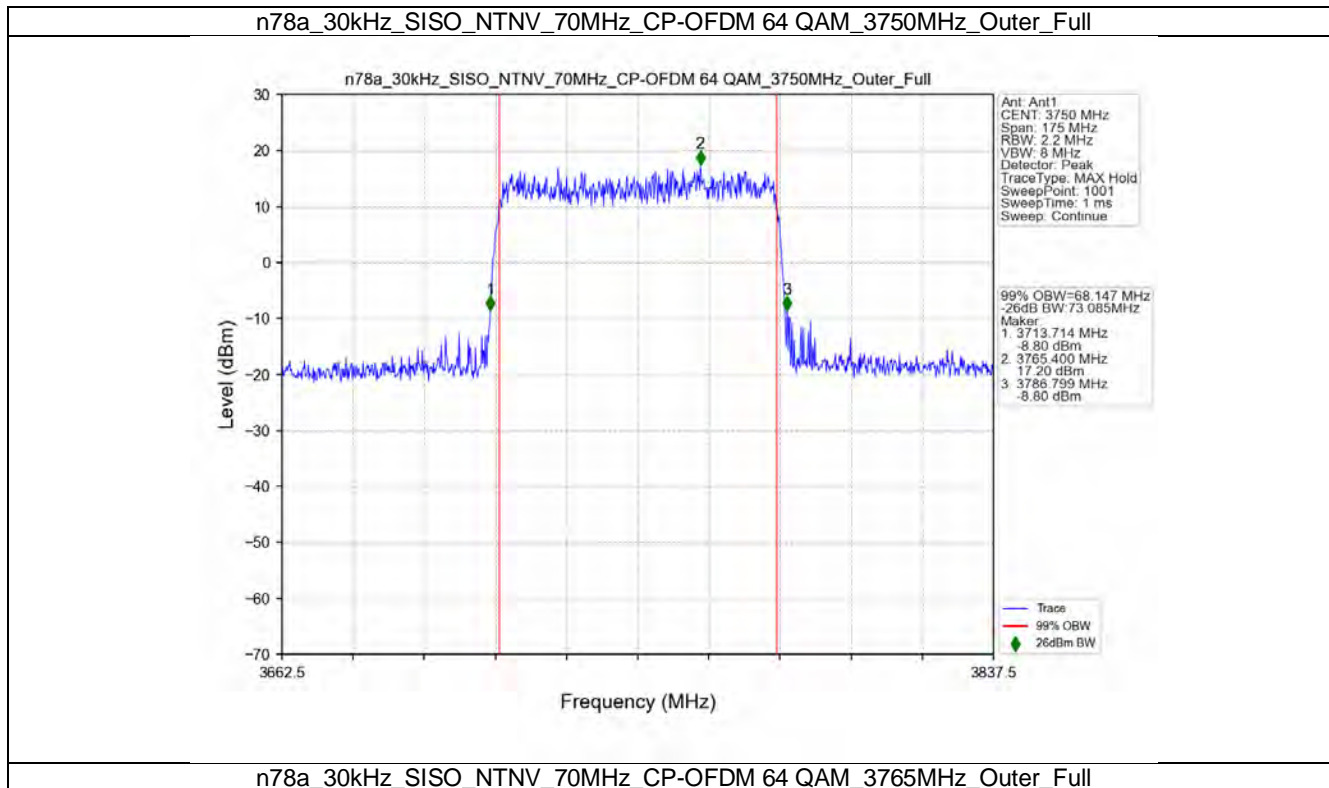
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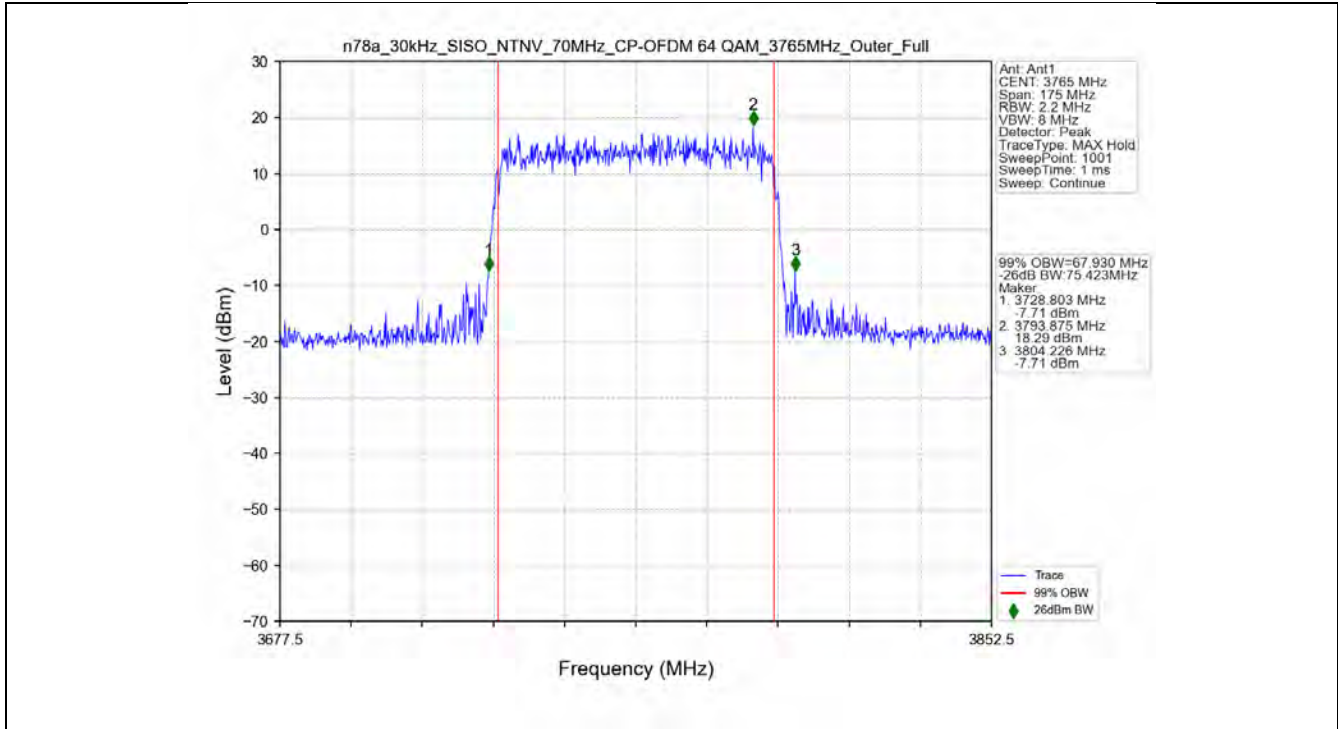


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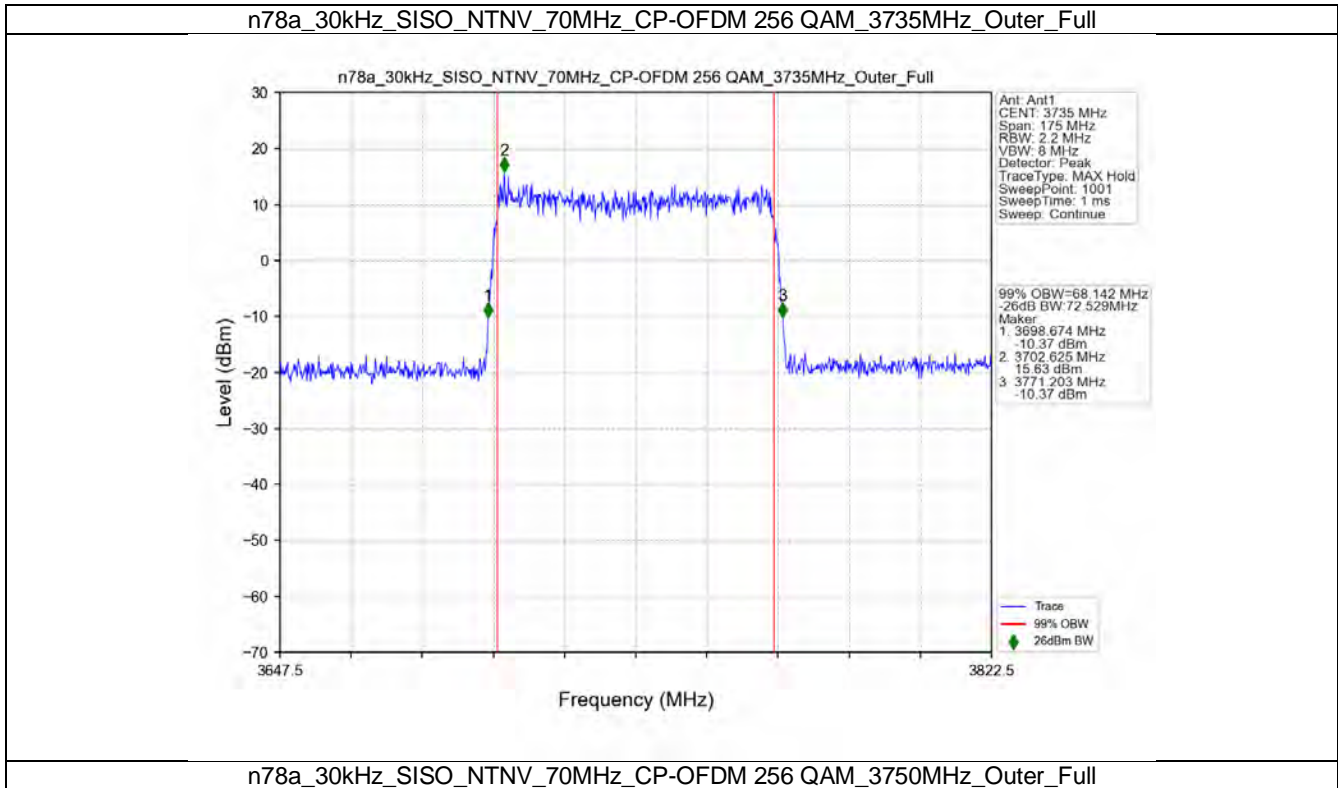


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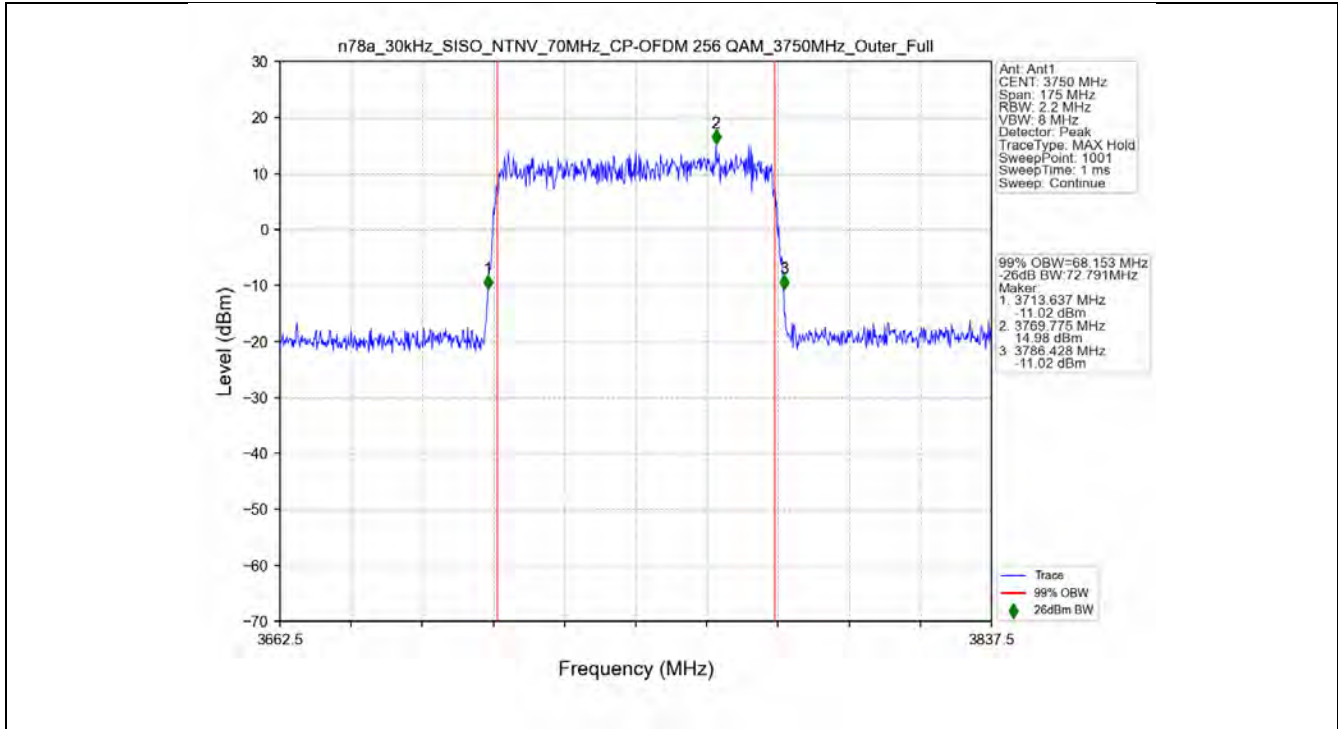


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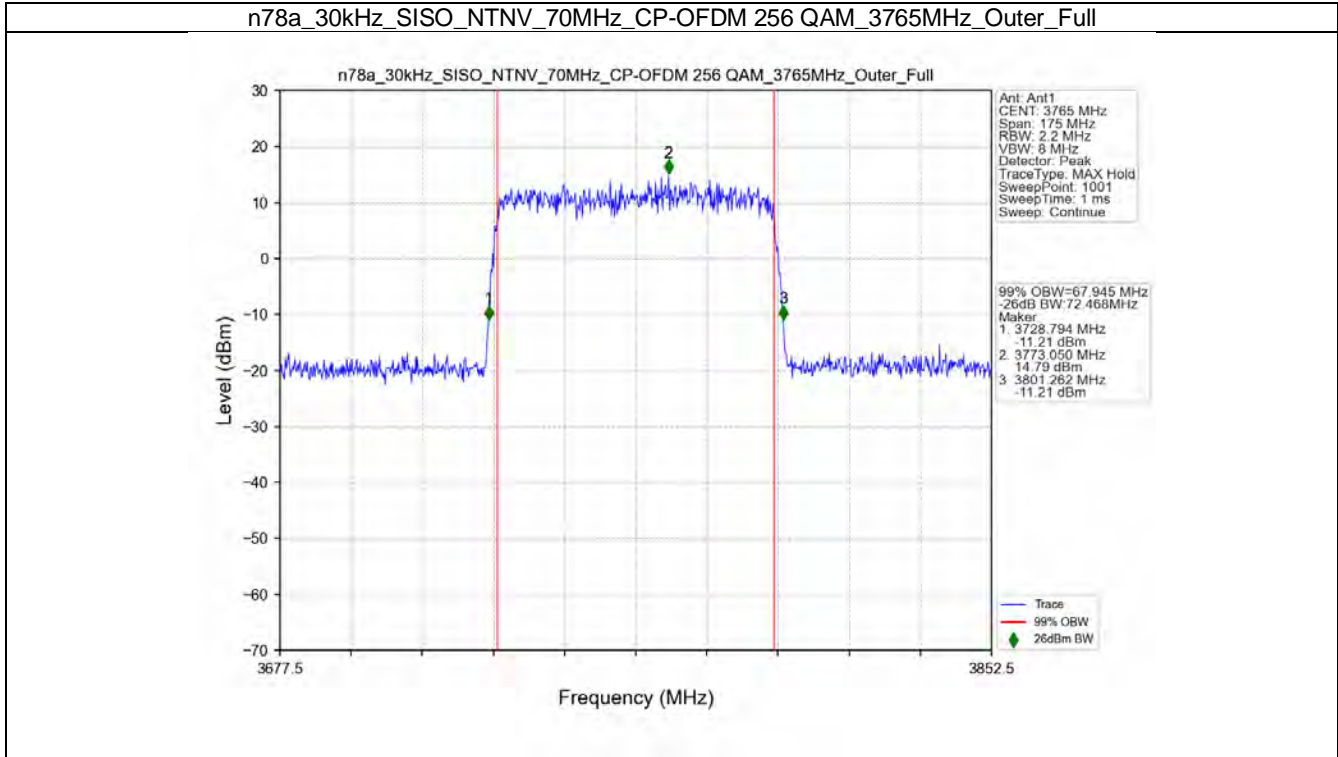


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3.7 30k_SISO_80MHz_NTNV

3.7.1 Test Result

5G NR n78a SCS=30kHz SISO 80MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3740.01	Outer_Full	78.03	82.59	/	Pass
	3750	Outer_Full	77.94	82.67	/	Pass
	3759.99	Outer_Full	77.74	82.90	/	Pass
DFT-s-OFDM QPSK	3740.01	Outer_Full	77.86	83.16	/	Pass
	3750	Outer_Full	77.69	82.44	/	Pass
	3759.99	Outer_Full	77.71	83.21	/	Pass
DFT-s-OFDM 16 QAM	3740.01	Outer_Full	77.74	82.56	/	Pass
	3750	Outer_Full	77.86	82.93	/	Pass
	3759.99	Outer_Full	77.37	82.76	/	Pass
DFT-s-OFDM 64 QAM	3740.01	Outer_Full	77.12	82.28	/	Pass
	3750	Outer_Full	78.00	82.93	/	Pass
	3759.99	Outer_Full	77.42	82.51	/	Pass
DFT-s-OFDM 256 QAM	3740.01	Outer_Full	77.74	82.44	/	Pass
	3750	Outer_Full	77.85	82.76	/	Pass
	3759.99	Outer_Full	78.02	82.55	/	Pass
CP-OFDM QPSK	3740.01	Outer_Full	78.31	83.35	/	Pass
	3750	Outer_Full	78.11	82.80	/	Pass
	3759.99	Outer_Full	78.18	82.95	/	Pass
CP-OFDM 16 QAM	3740.01	Outer_Full	78.08	82.96	/	Pass
	3750	Outer_Full	78.70	82.41	/	Pass
	3759.99	Outer_Full	77.81	83.07	/	Pass
CP-OFDM 64 QAM	3740.01	Outer_Full	78.07	82.97	/	Pass
	3750	Outer_Full	78.34	82.88	/	Pass
	3759.99	Outer_Full	77.75	83.21	/	Pass
CP-OFDM 256 QAM	3740.01	Outer_Full	78.21	83.41	/	Pass
	3750	Outer_Full	78.29	83.28	/	Pass
	3759.99	Outer_Full	77.60	82.96	/	Pass



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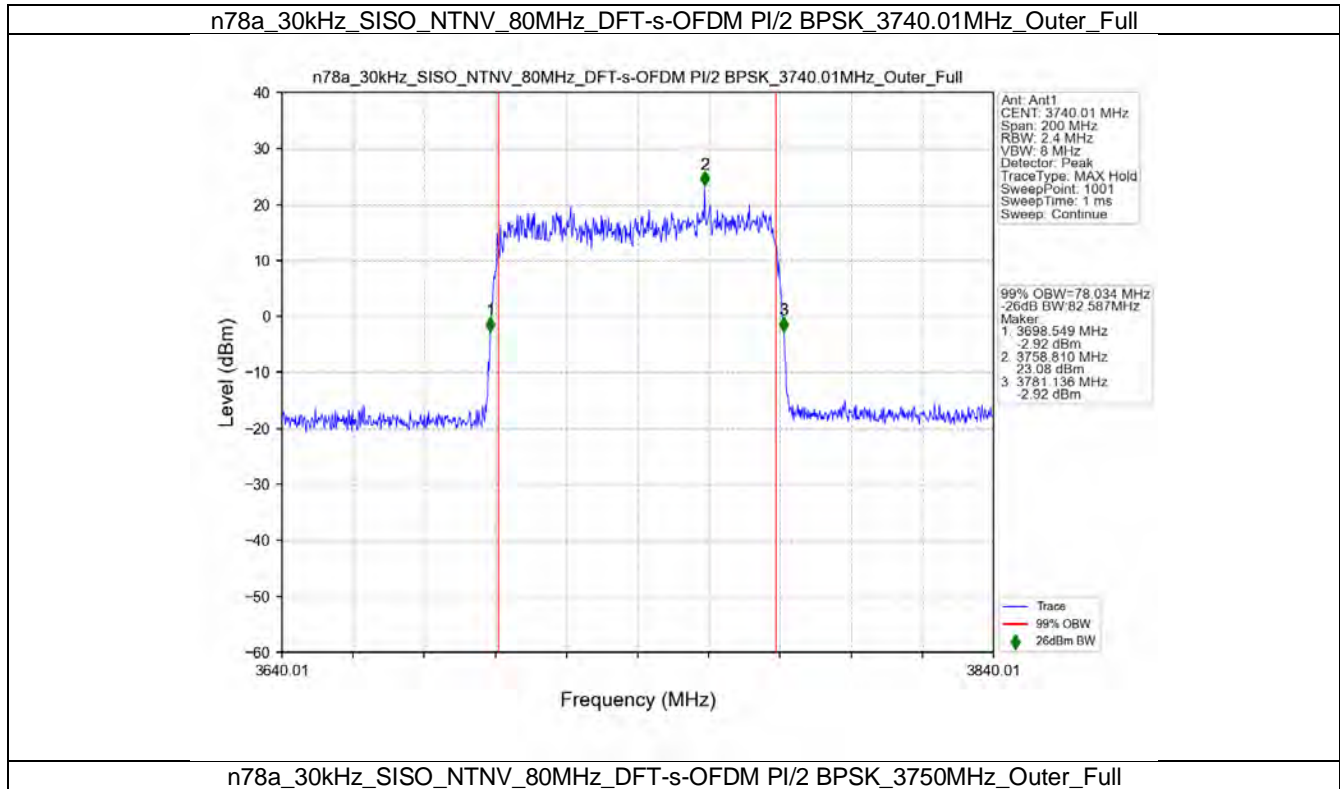
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3.7.2 Test Graph



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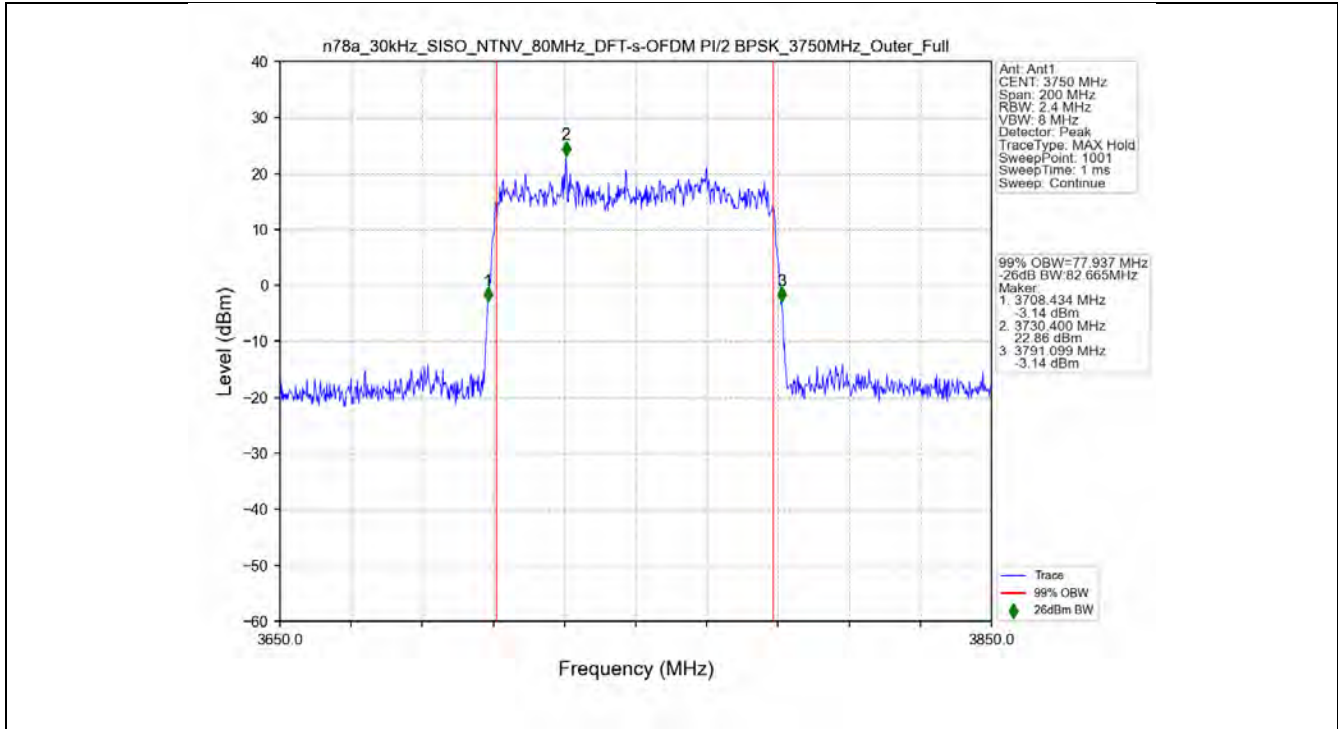


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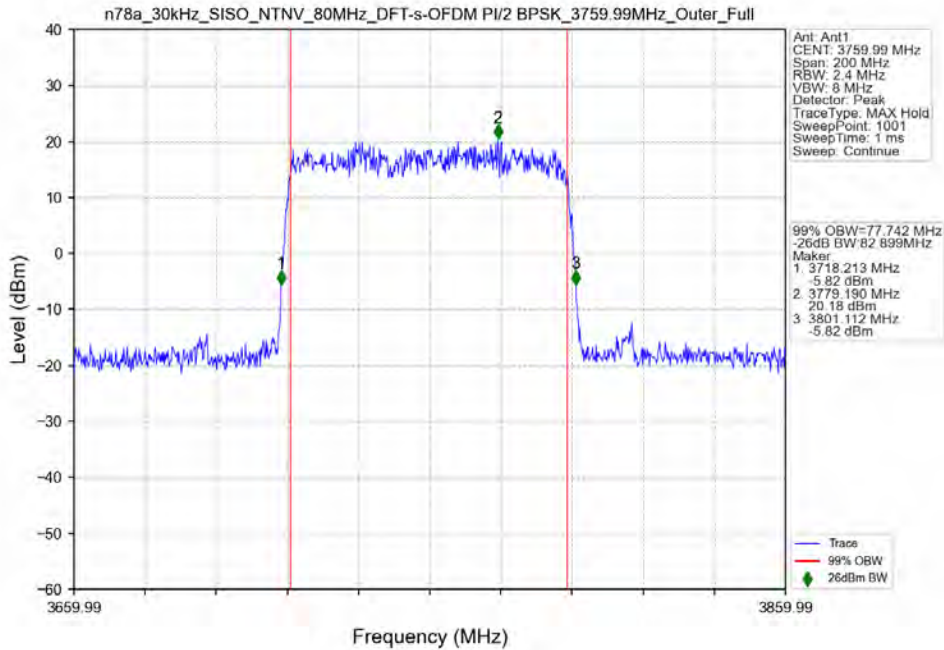
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n78a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM PI/2 BPSK_3759.99MHz_Outer_Full



n78a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM QPSK_3740.01MHz_Outer_Full



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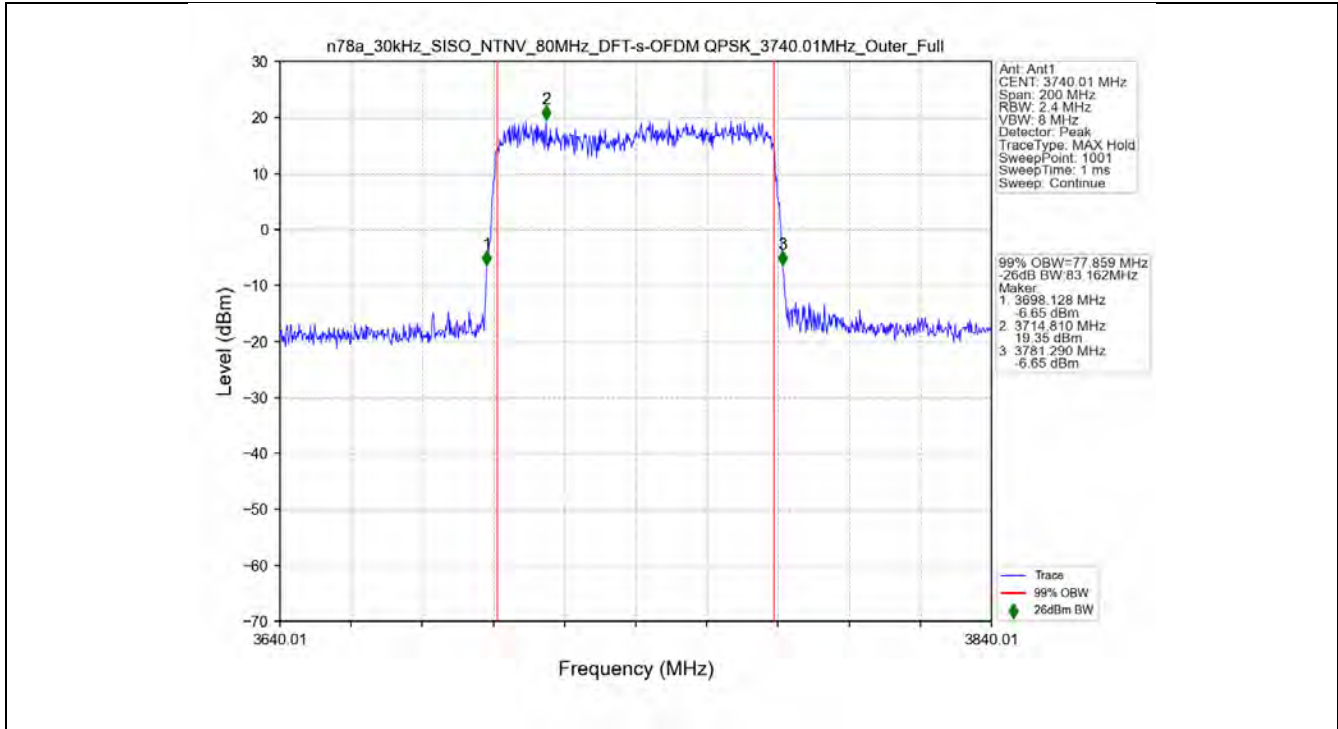


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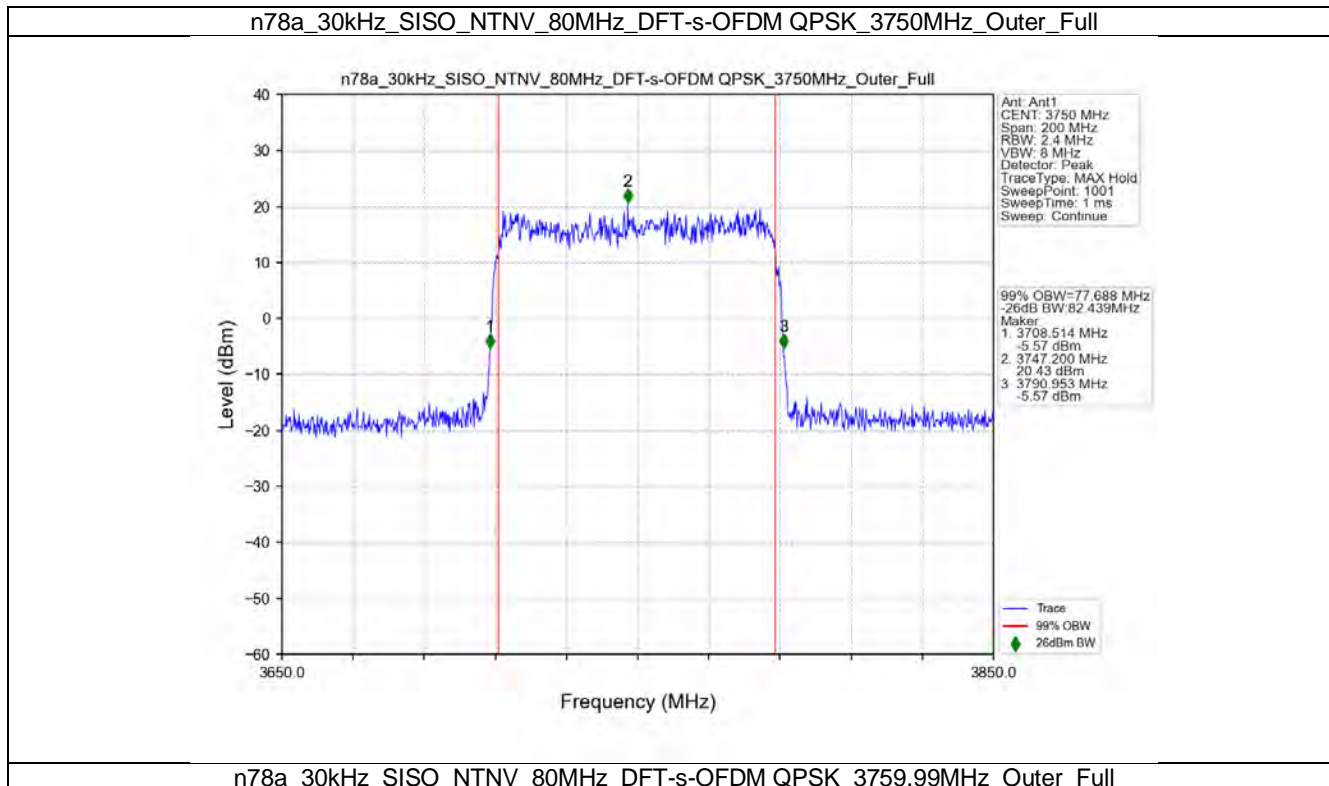
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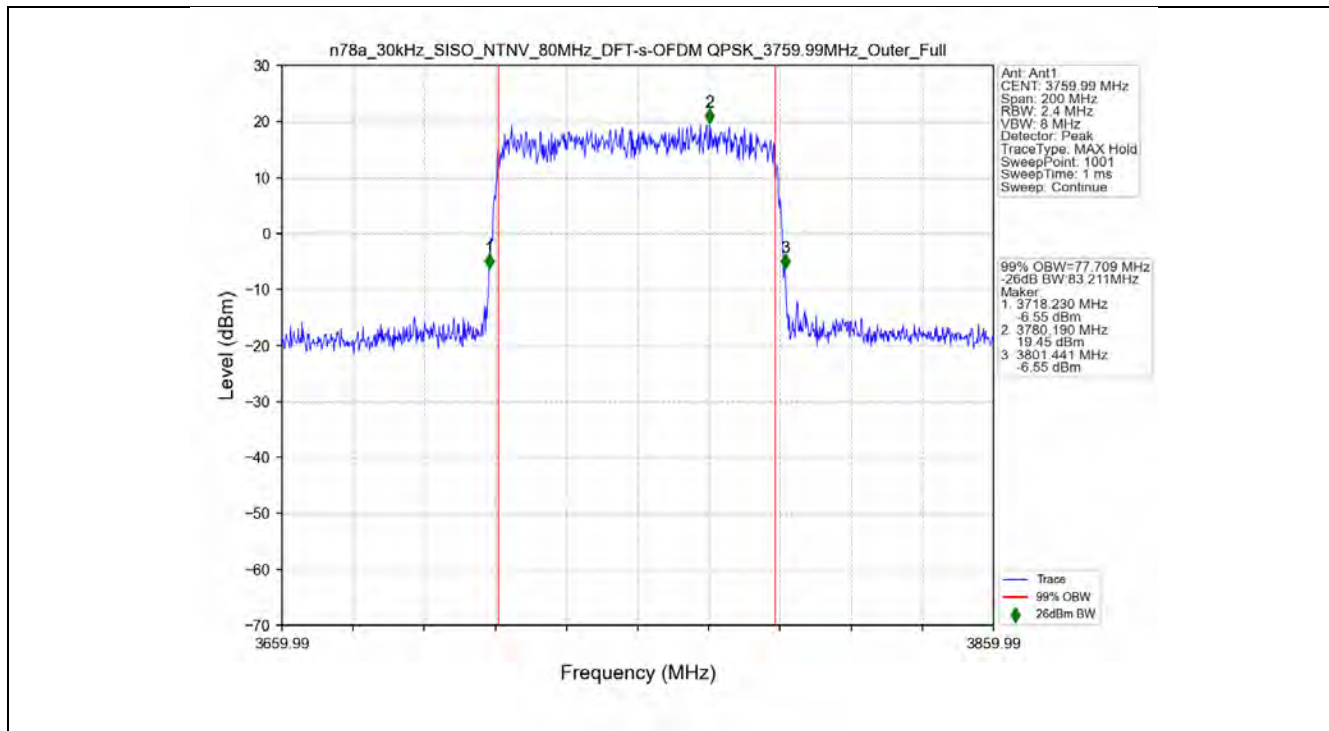
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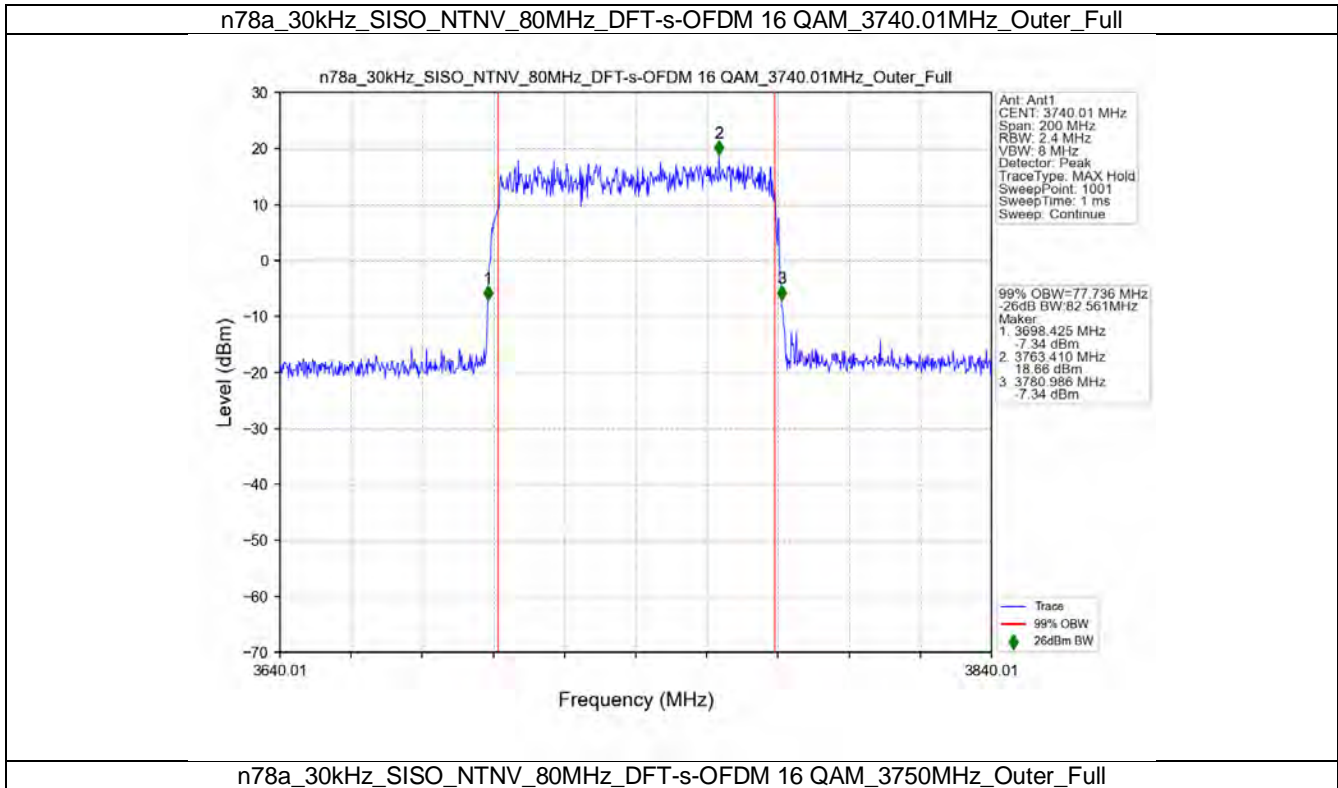


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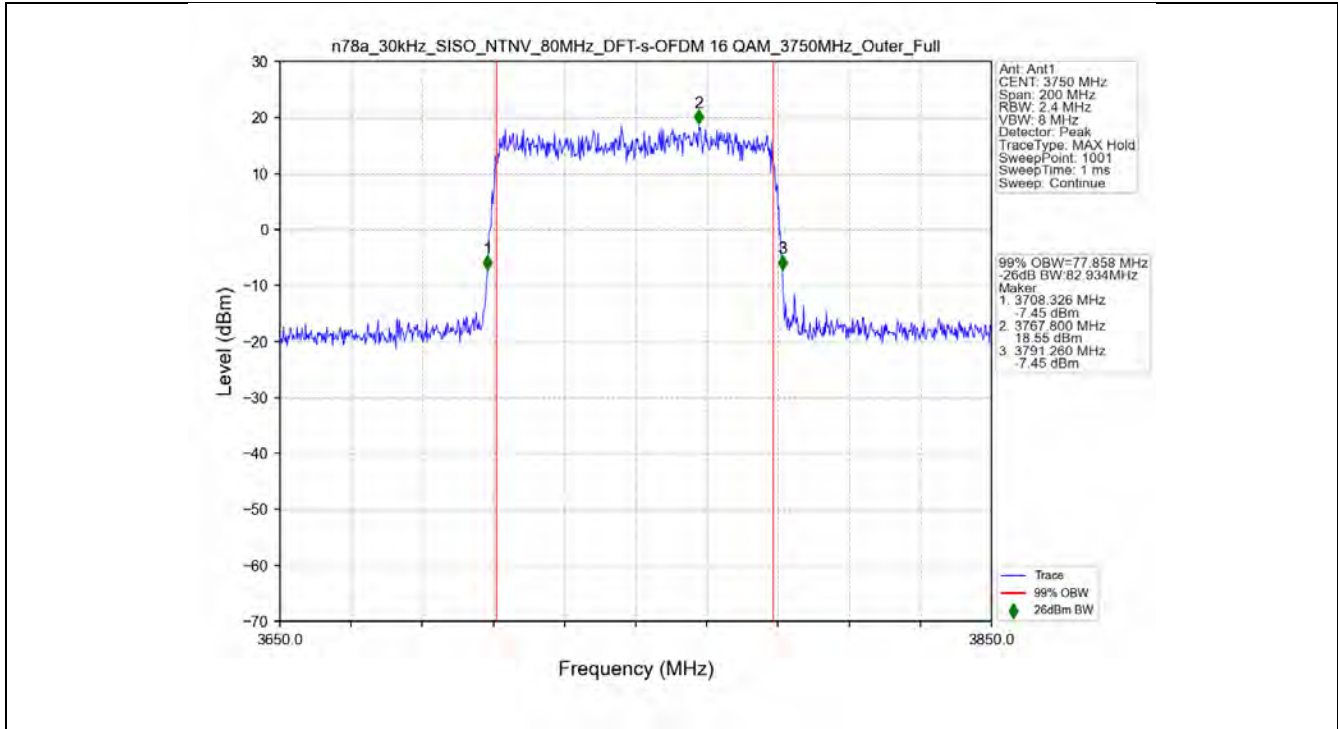


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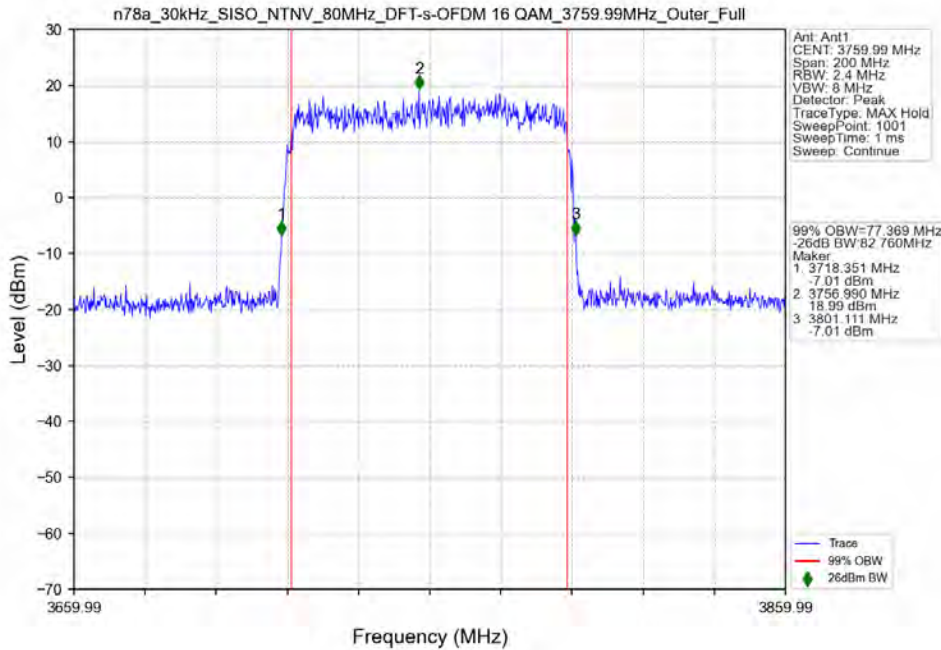
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n78a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM 16 QAM_3759.99MHz_Outer_Full



n78a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM 64 QAM_3740.01MHz_Outer_Full



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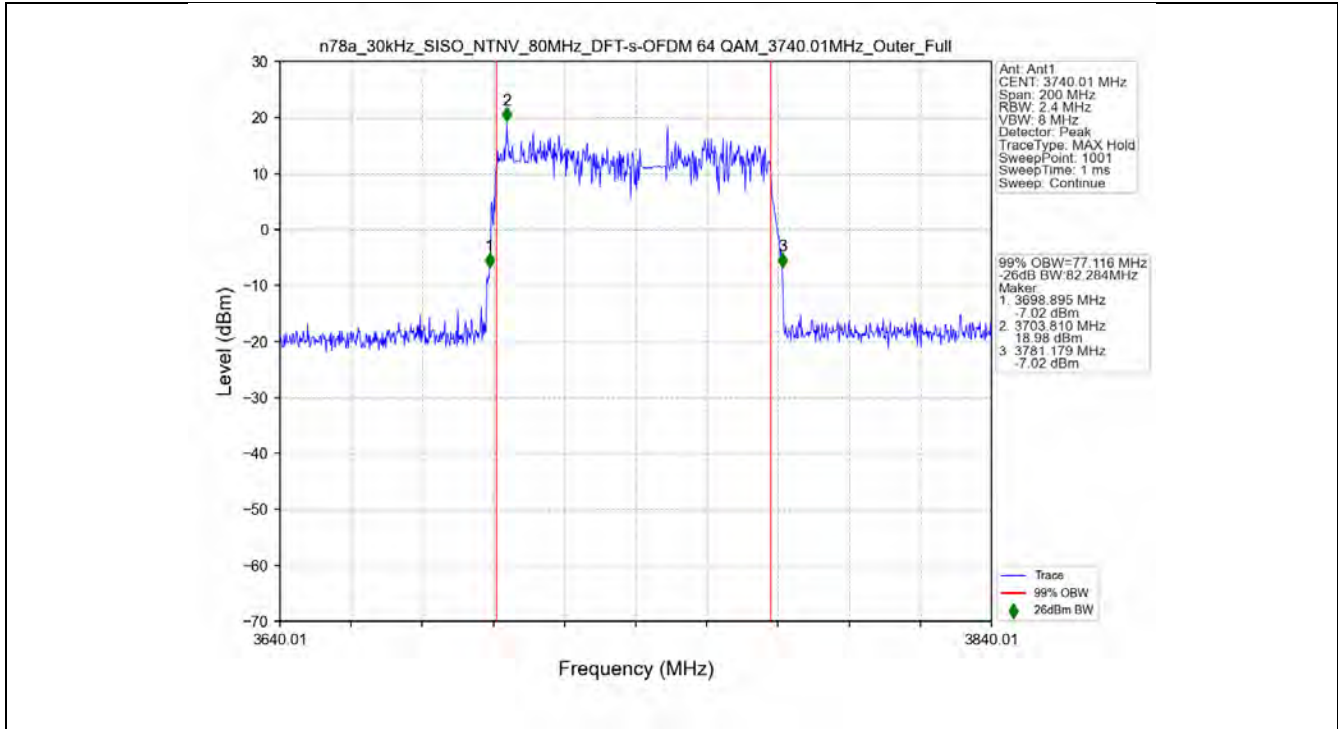


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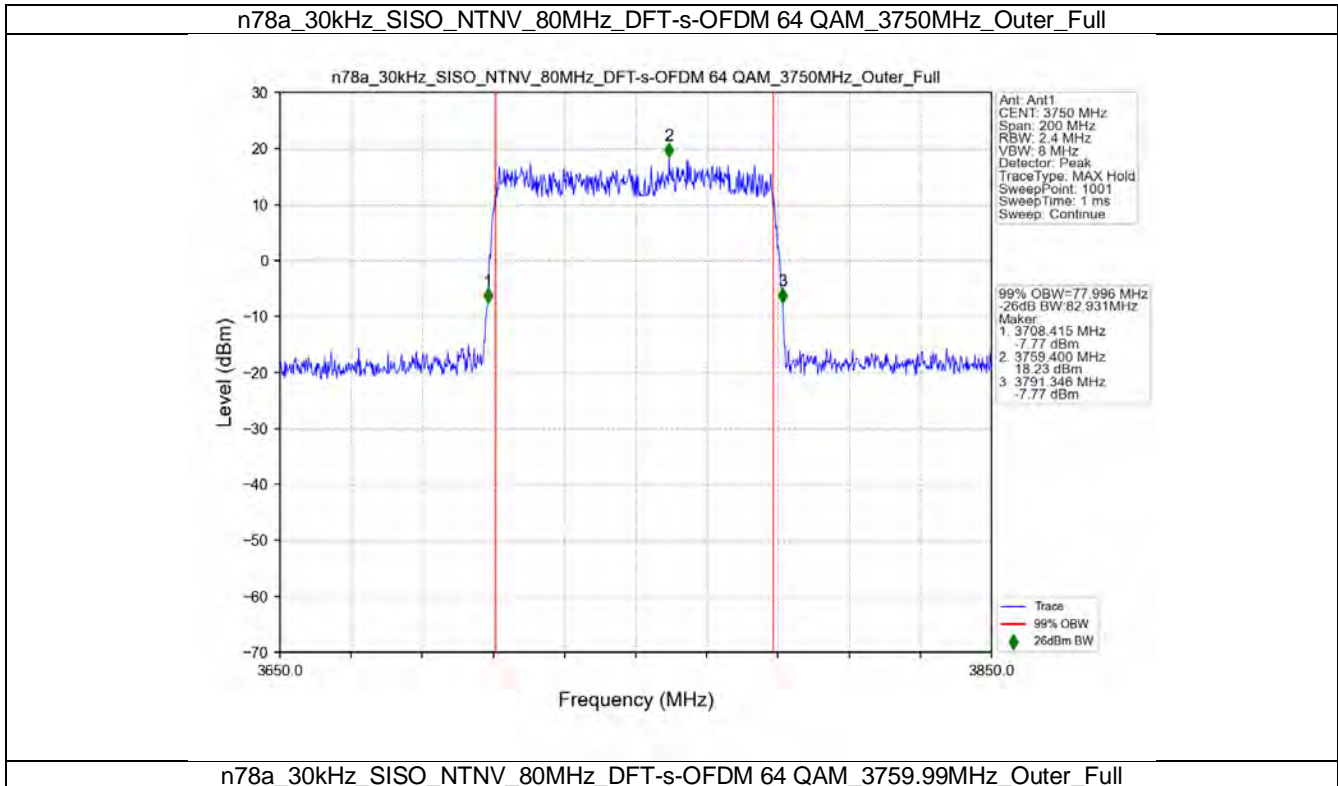


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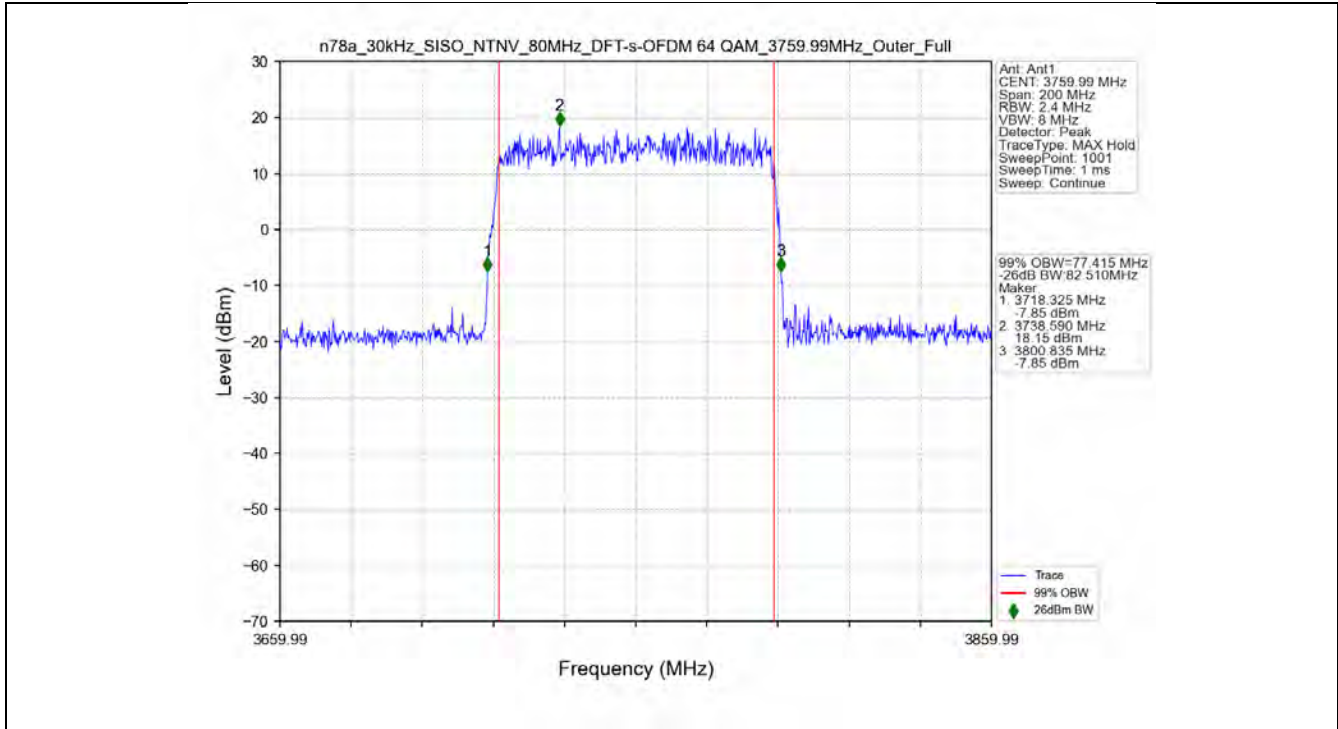


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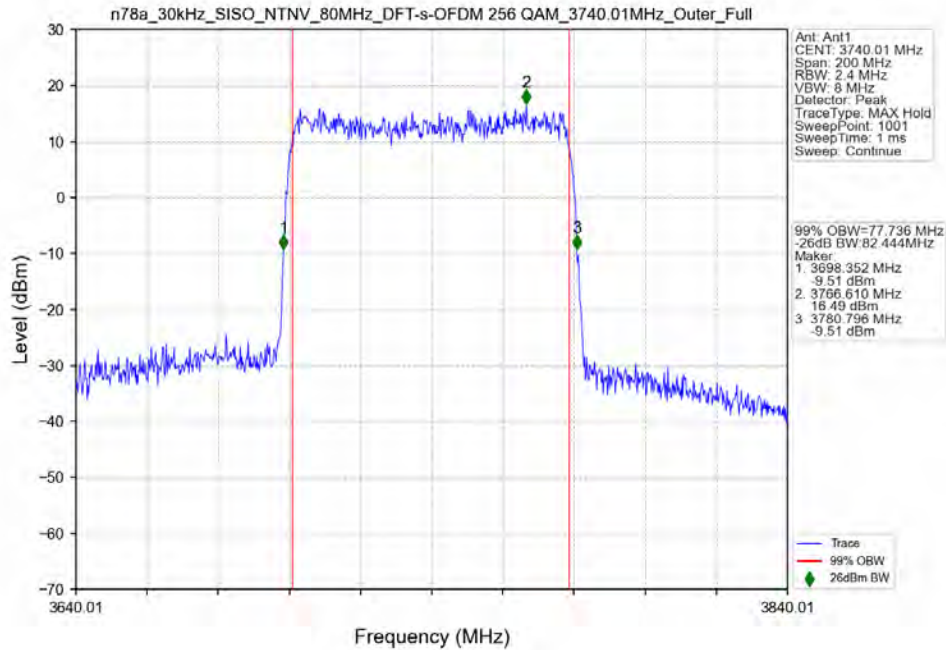
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n78a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM 256 QAM_3750MHz_Outer_Full



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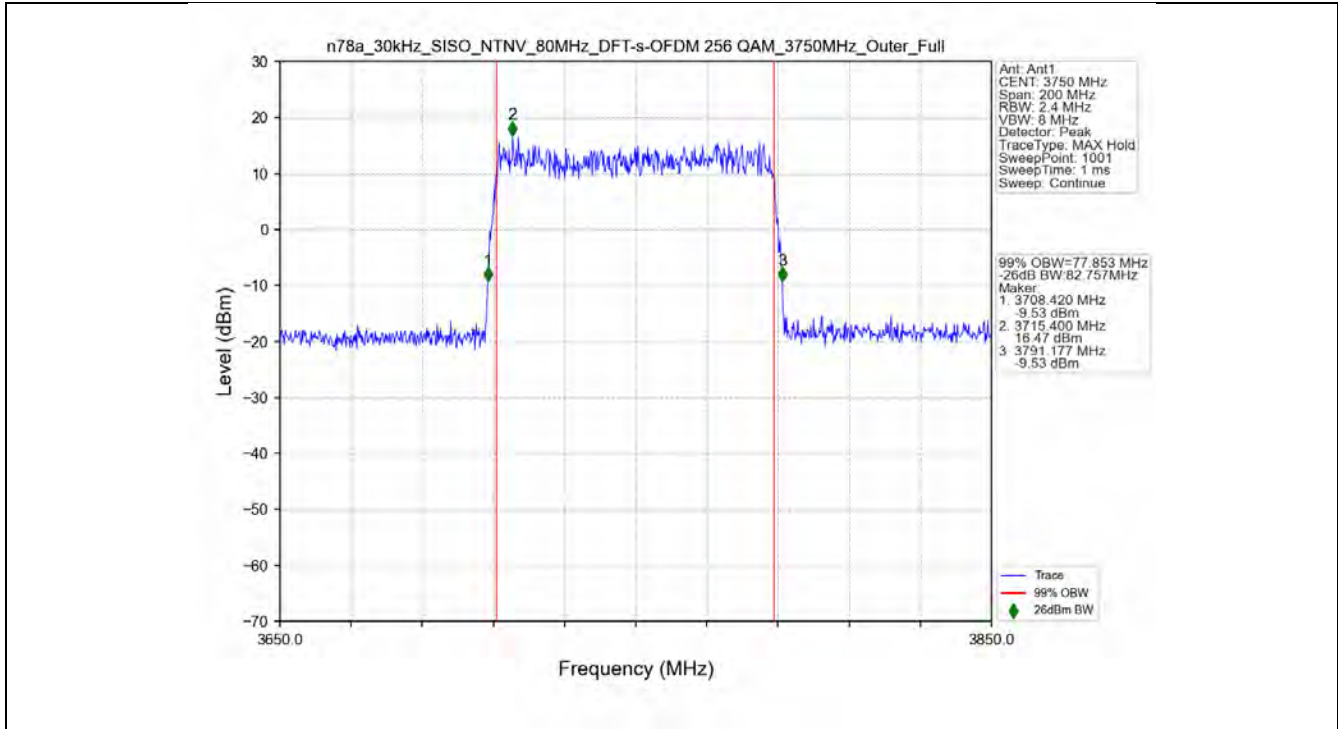


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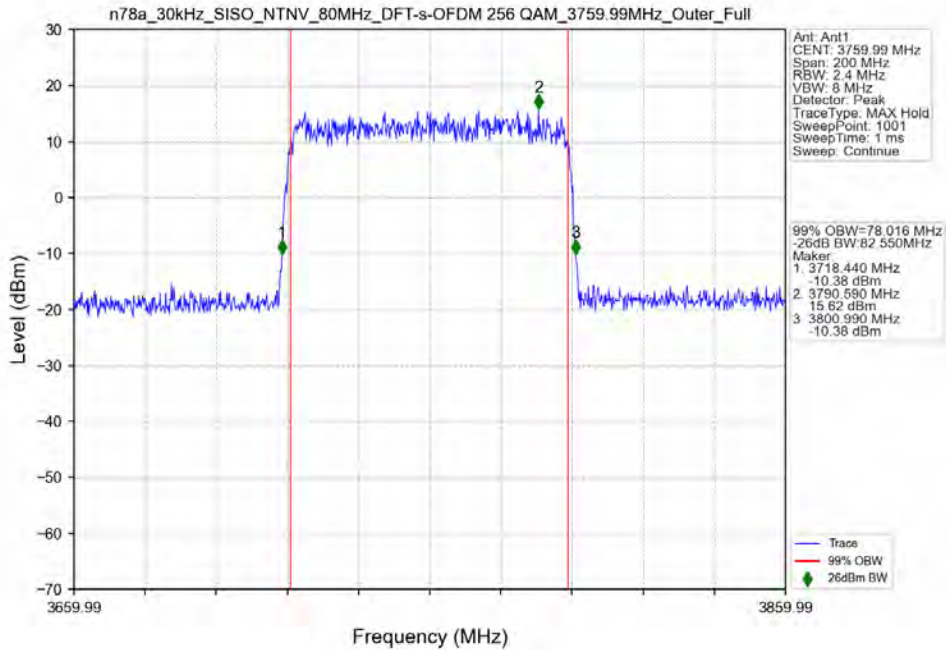
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n78a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM 256 QAM_3759.99MHz_Outer_Full



n78a_30kHz_SISO_NTNV_80MHz_CP-OFDM QPSK_3740.01MHz_Outer_Full



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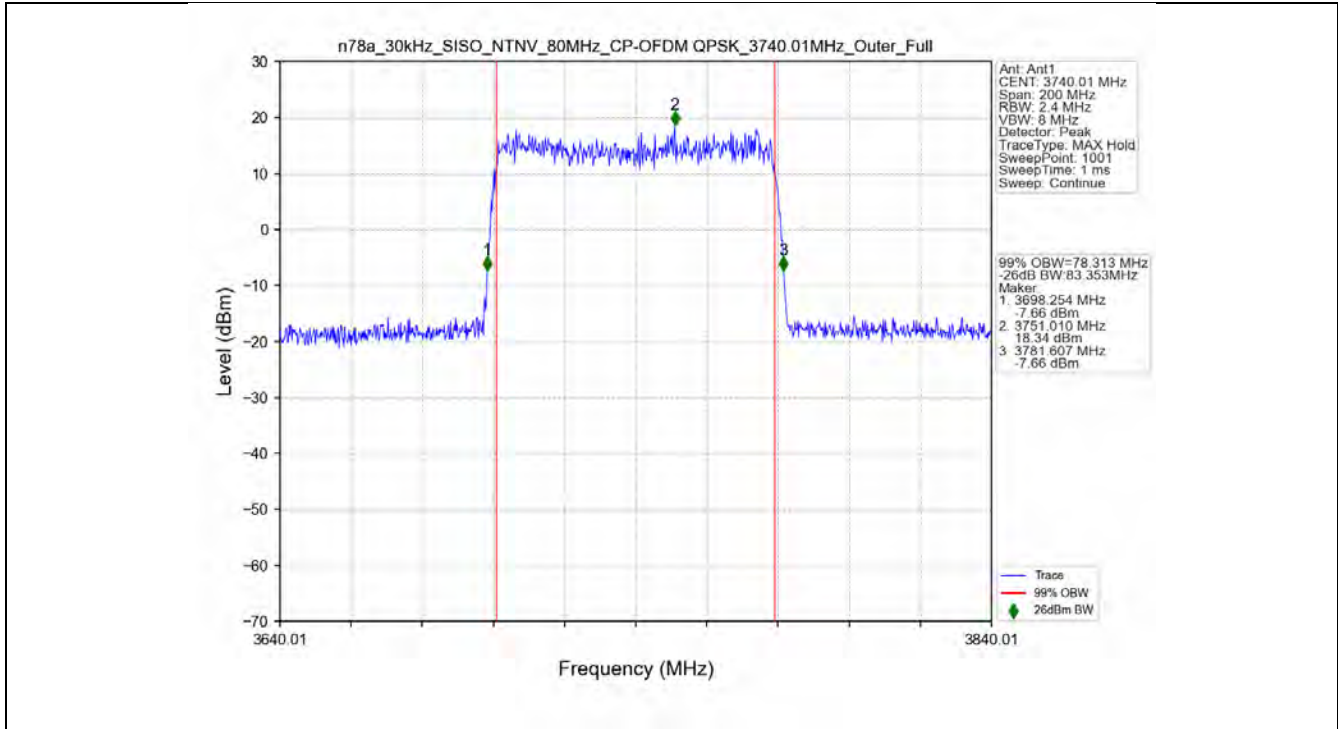


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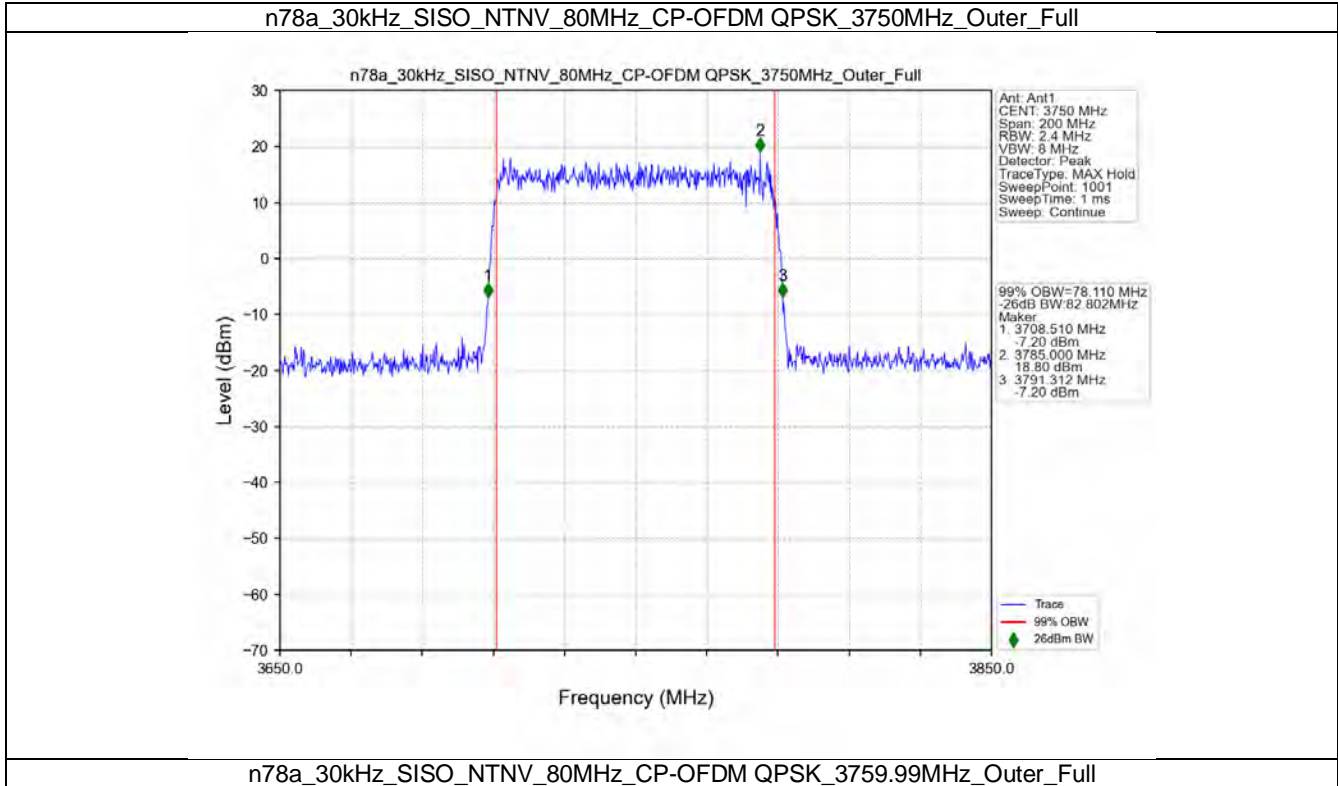


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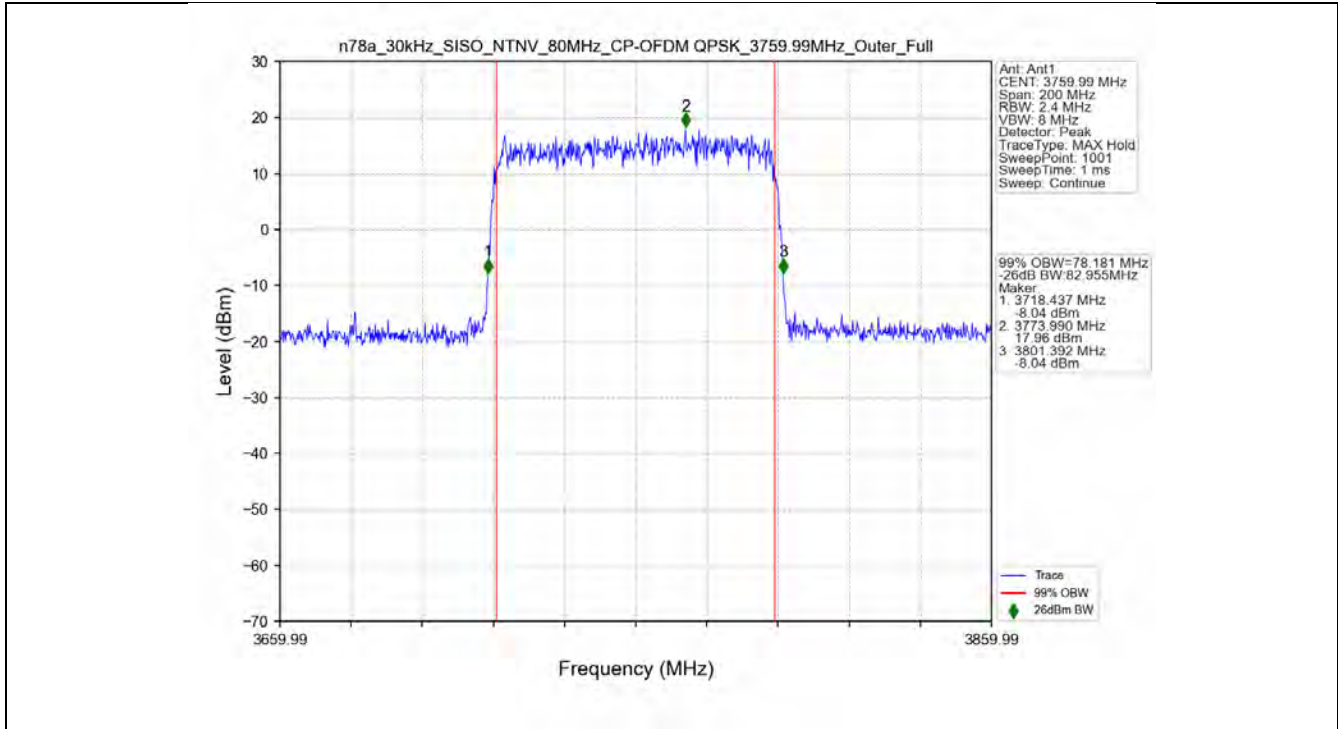


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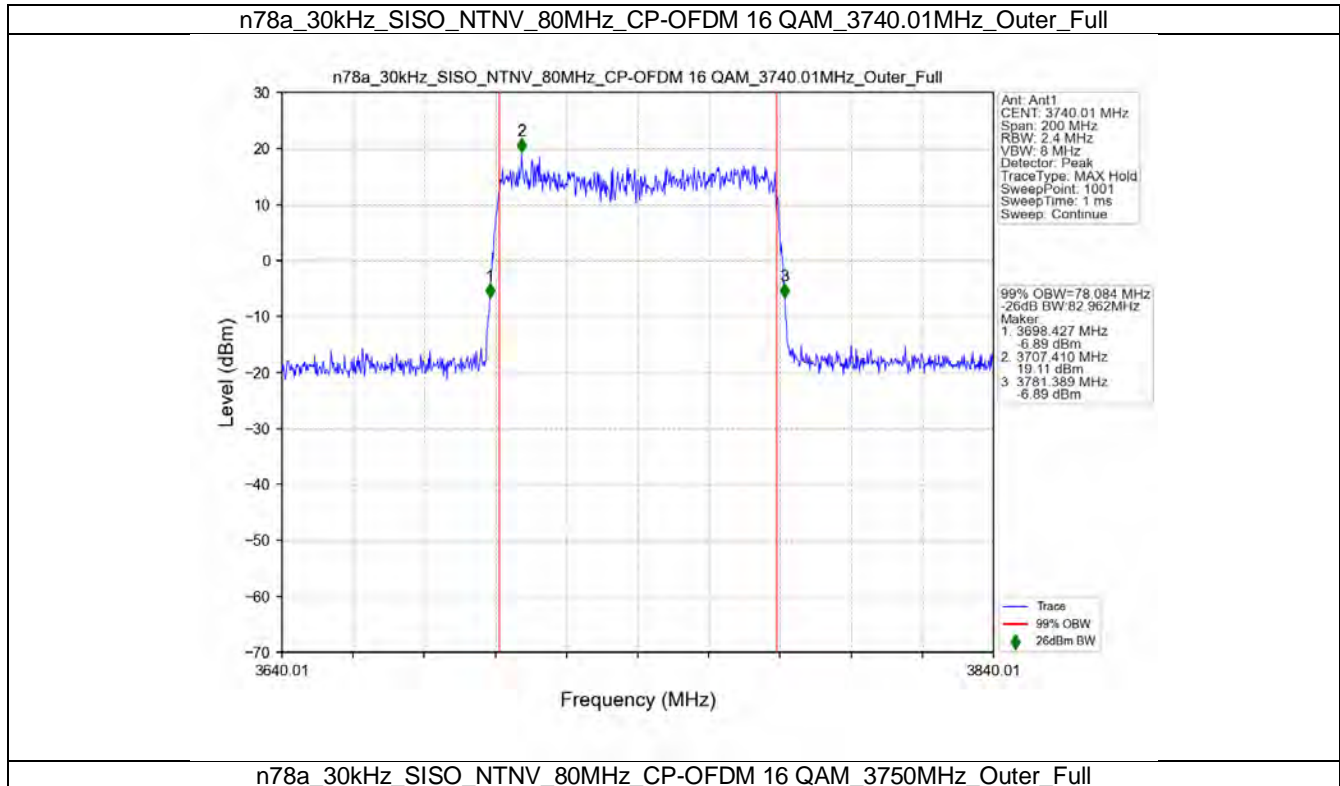


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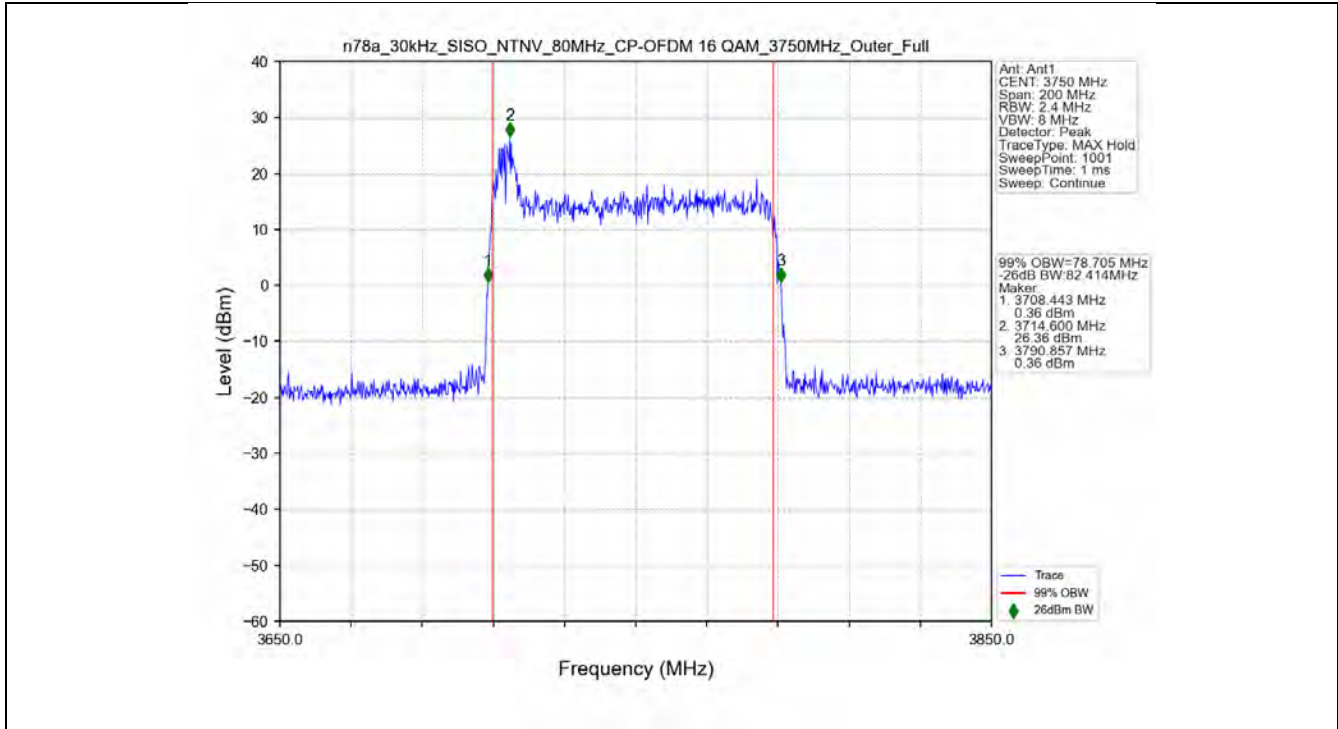


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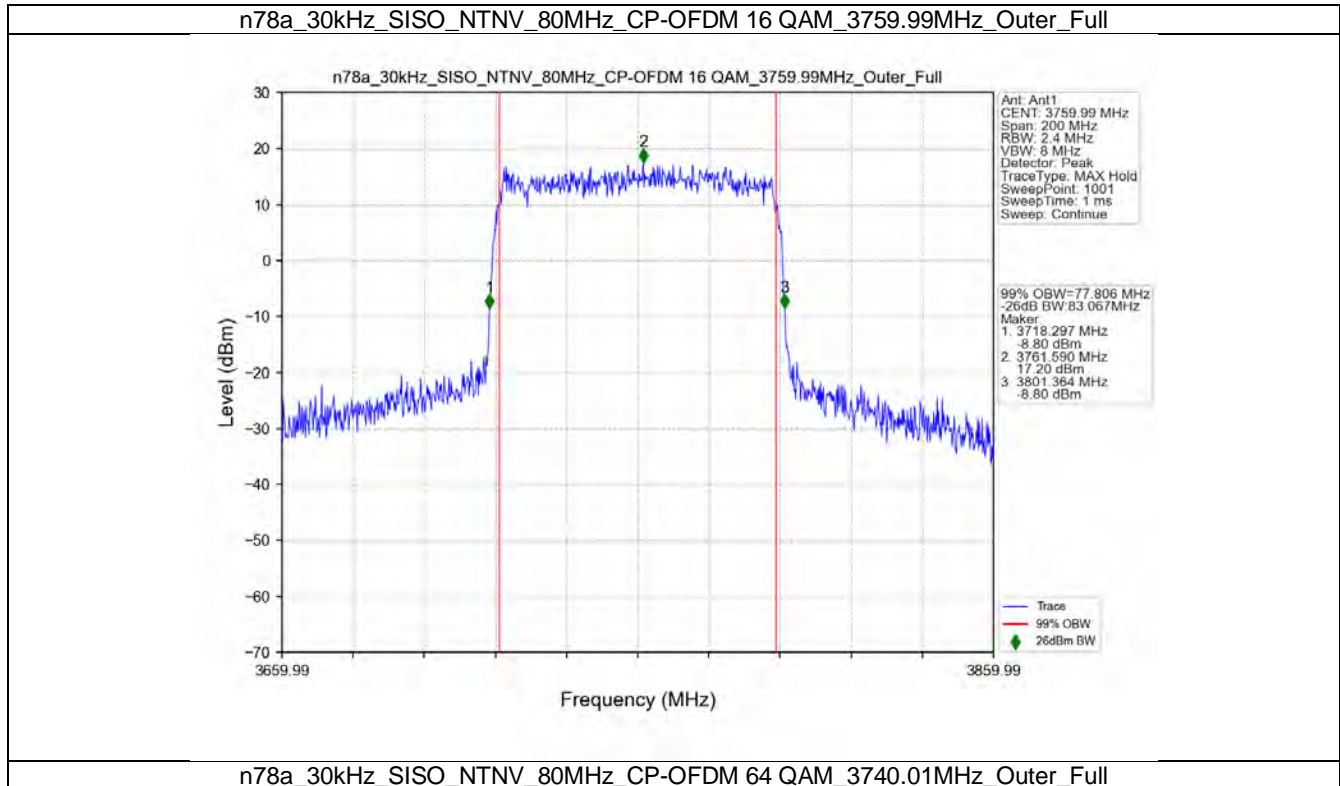


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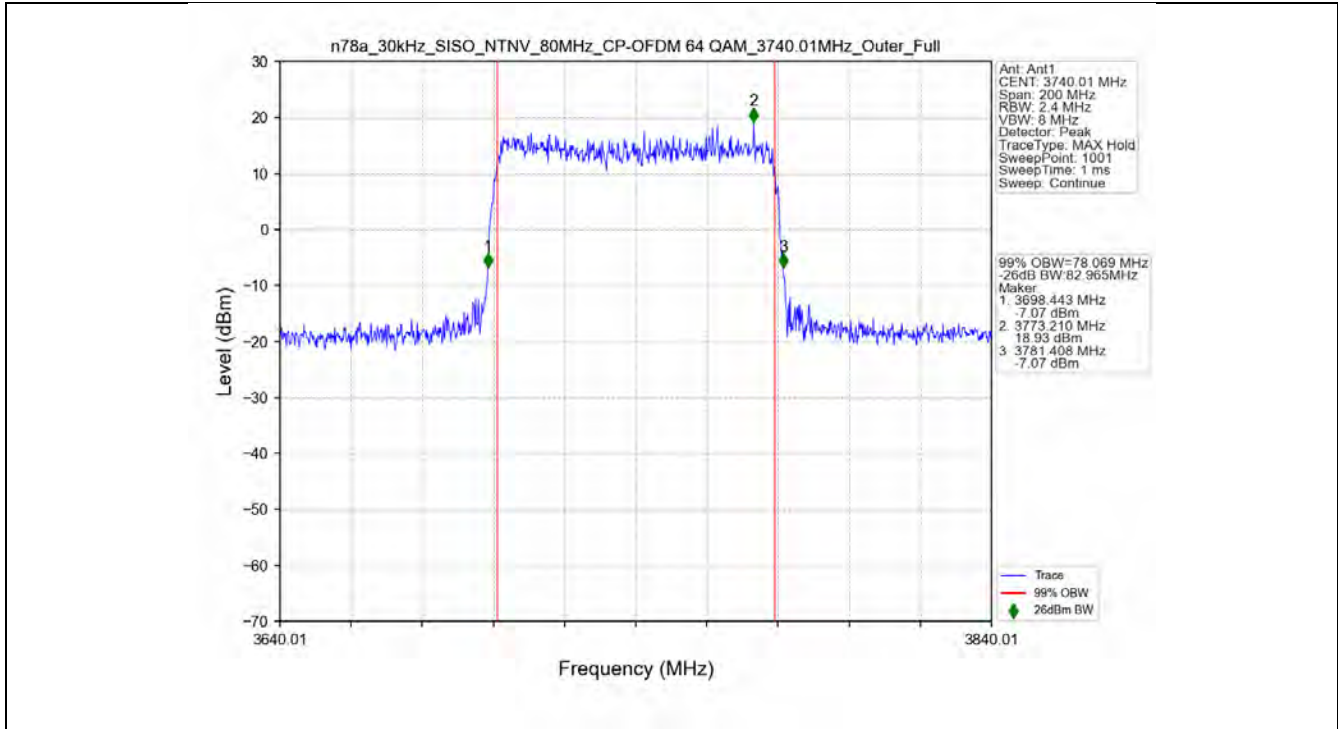


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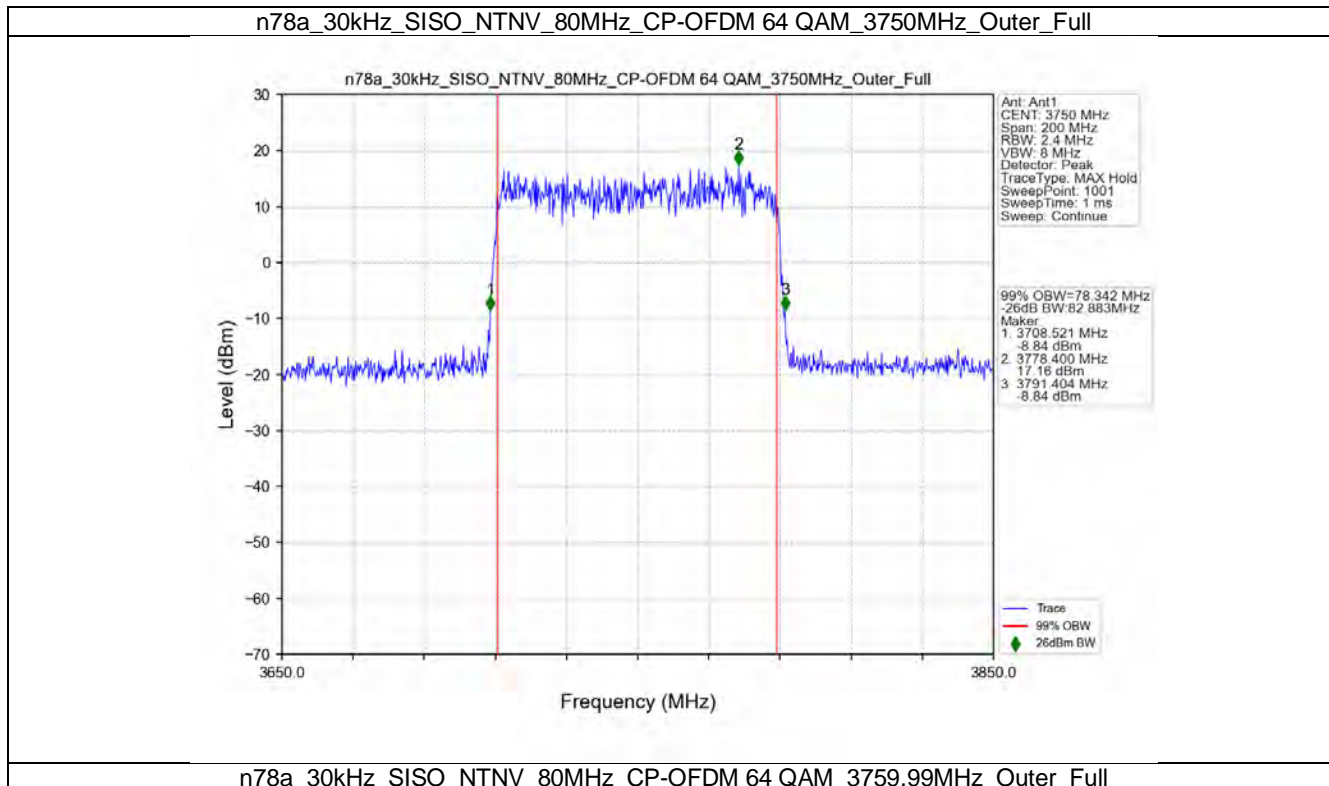
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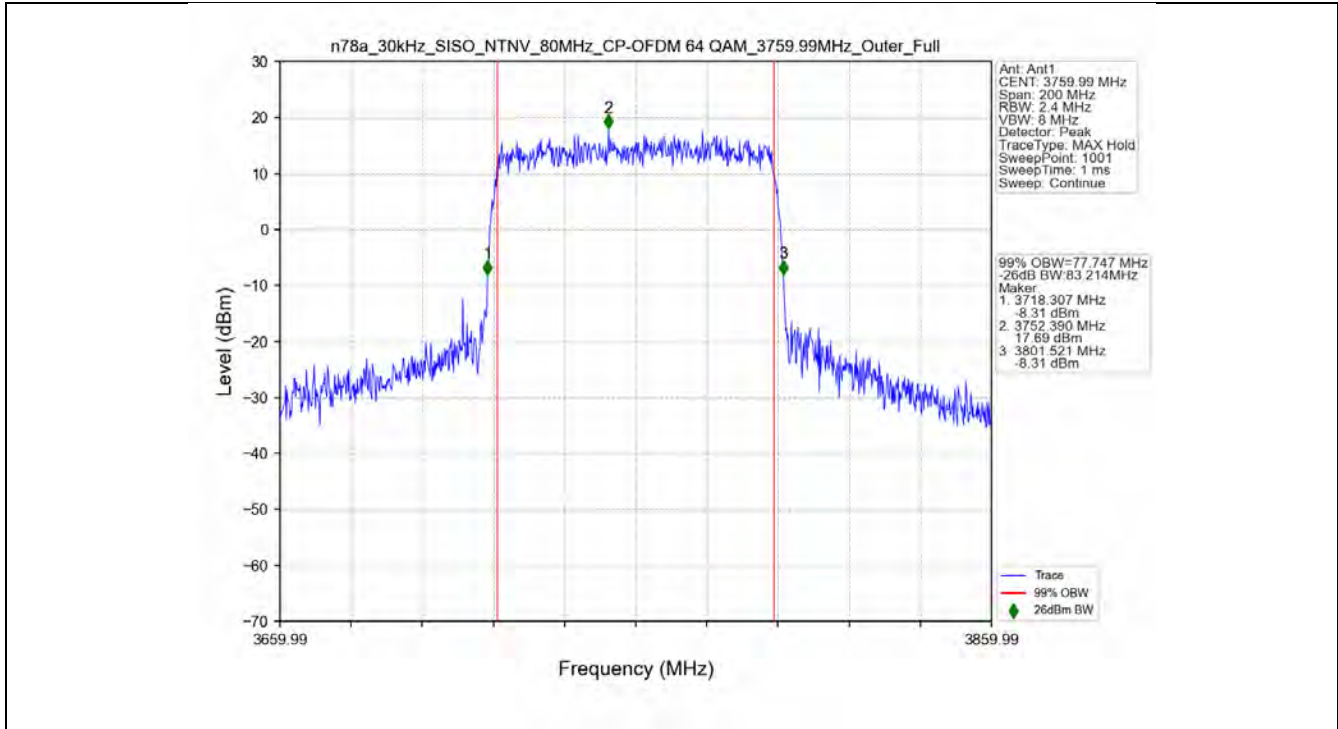


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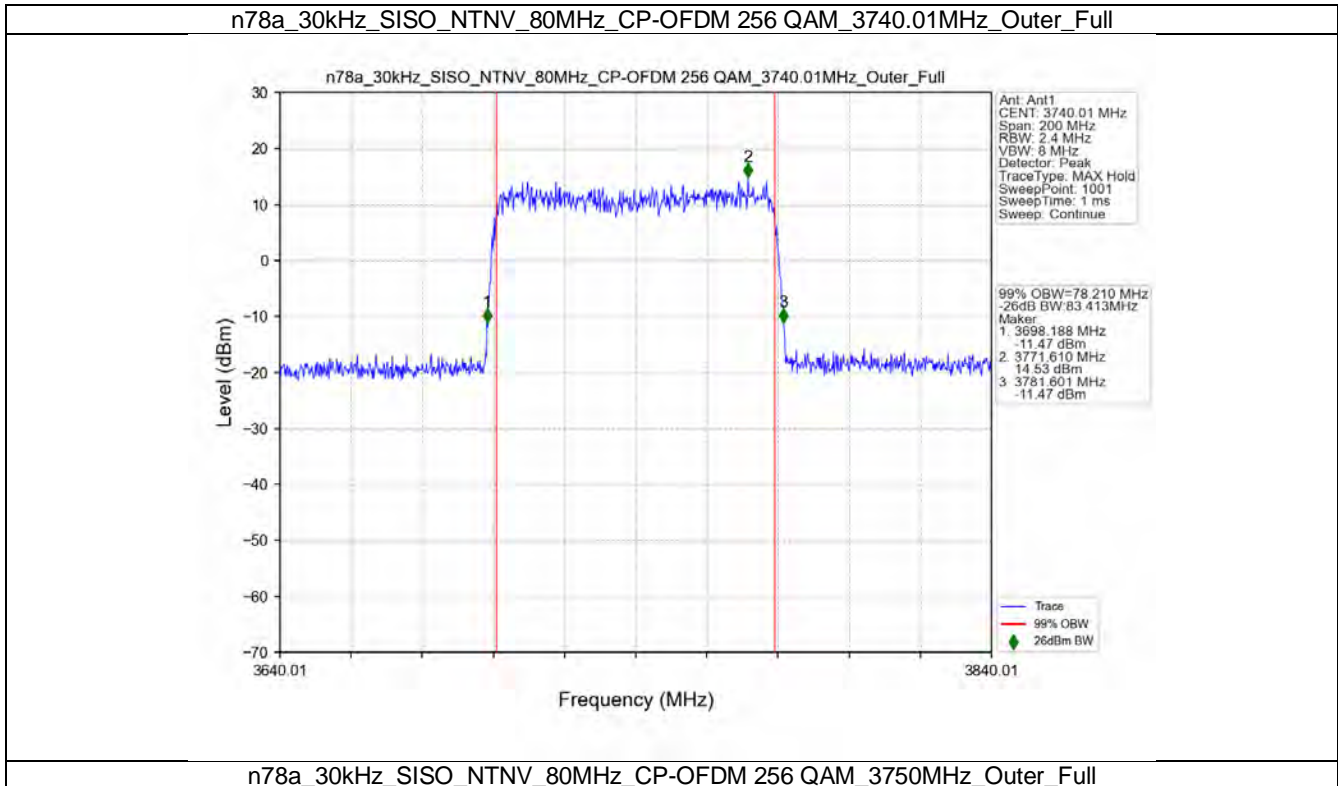


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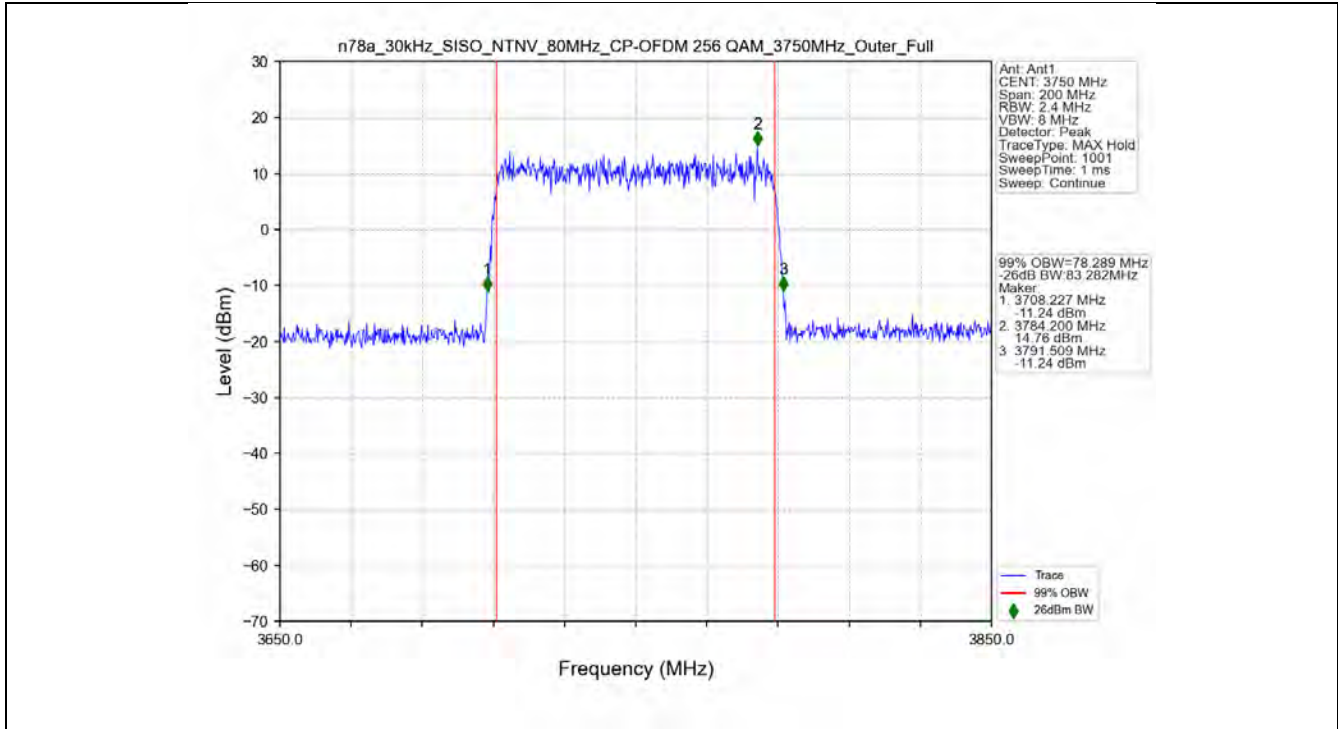


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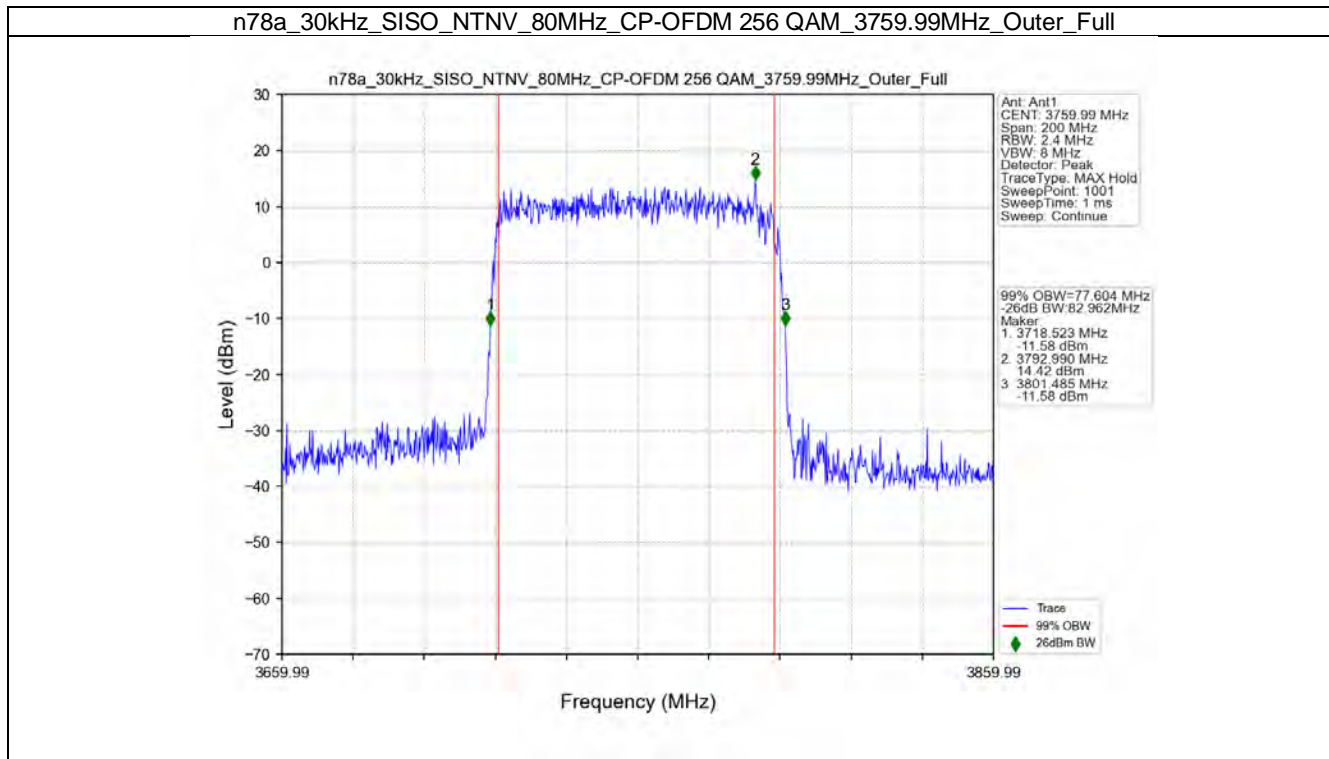
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3.8 30k_SISO_90MHz_NTNV

3.8.1 Test Result

5G NR n78a SCS=30kHz SISO 90MHz NNTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3745.02	Outer_Full	87.08	93.03	/	Pass
	3750	Outer_Full	87.45	92.99	/	Pass
	3754.98	Outer_Full	87.74	93.54	/	Pass
DFT-s-OFDM QPSK	3745.02	Outer_Full	87.32	92.85	/	Pass
	3750	Outer_Full	87.69	93.10	/	Pass
	3754.98	Outer_Full	87.14	92.80	/	Pass
DFT-s-OFDM 16 QAM	3745.02	Outer_Full	87.56	92.62	/	Pass
	3750	Outer_Full	87.83	93.13	/	Pass
	3754.98	Outer_Full	84.86	88.39	/	Pass
DFT-s-OFDM 64 QAM	3745.02	Outer_Full	86.67	93.04	/	Pass
	3750	Outer_Full	87.54	93.00	/	Pass
	3754.98	Outer_Full	87.13	92.95	/	Pass
DFT-s-OFDM 256 QAM	3745.02	Outer_Full	87.15	92.89	/	Pass
	3750	Outer_Full	87.37	92.89	/	Pass
	3754.98	Outer_Full	87.14	92.81	/	Pass
CP-OFDM QPSK	3745.02	Outer_Full	88.06	93.54	/	Pass
	3750	Outer_Full	88.06	93.14	/	Pass
	3754.98	Outer_Full	87.64	93.45	/	Pass
CP-OFDM 16 QAM	3745.02	Outer_Full	88.12	93.66	/	Pass
	3750	Outer_Full	88.27	93.68	/	Pass
	3754.98	Outer_Full	87.97	93.48	/	Pass
CP-OFDM 64 QAM	3745.02	Outer_Full	88.06	93.62	/	Pass
	3750	Outer_Full	88.03	93.06	/	Pass
	3754.98	Outer_Full	87.96	93.81	/	Pass
CP-OFDM 256 QAM	3745.02	Outer_Full	87.90	93.37	/	Pass
	3750	Outer_Full	88.35	93.81	/	Pass
	3754.98	Outer_Full	87.99	93.80	/	Pass



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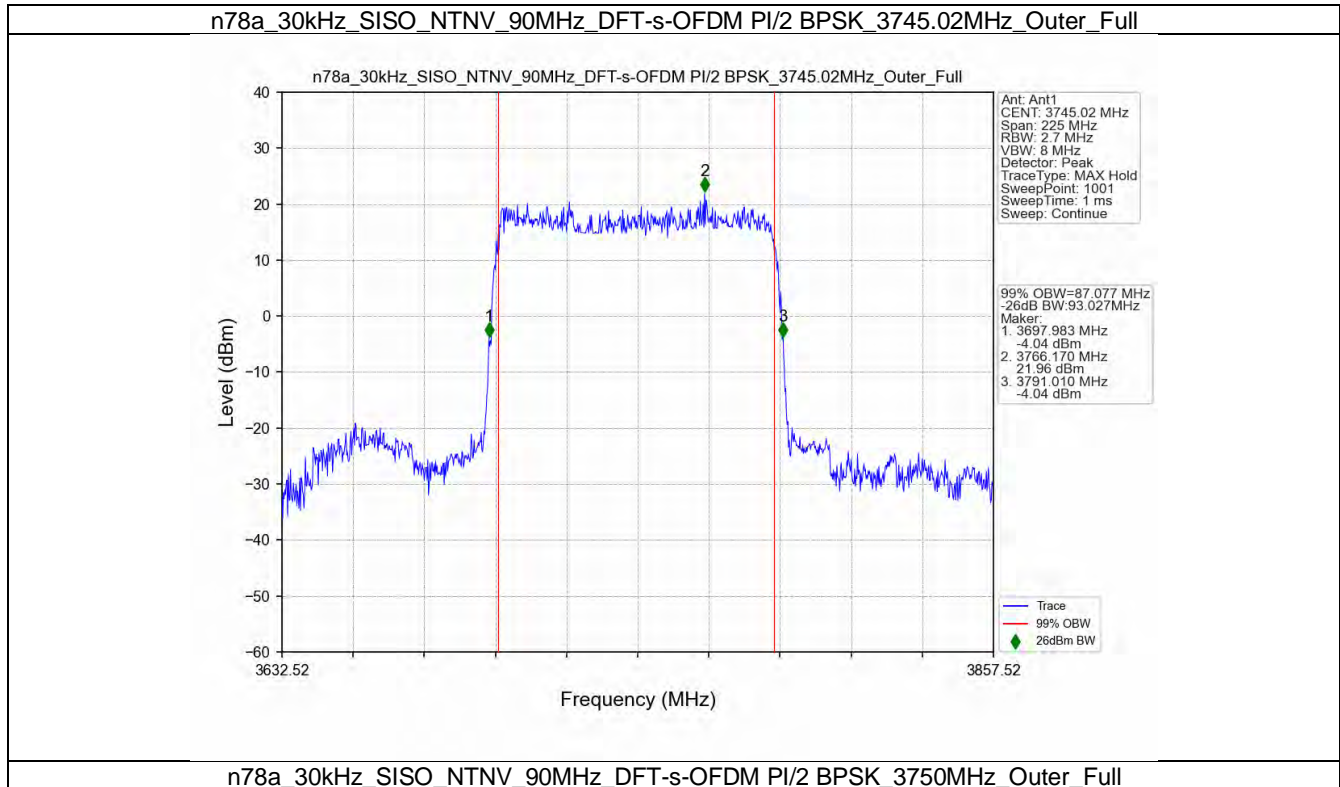
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3.8.2 Test Graph



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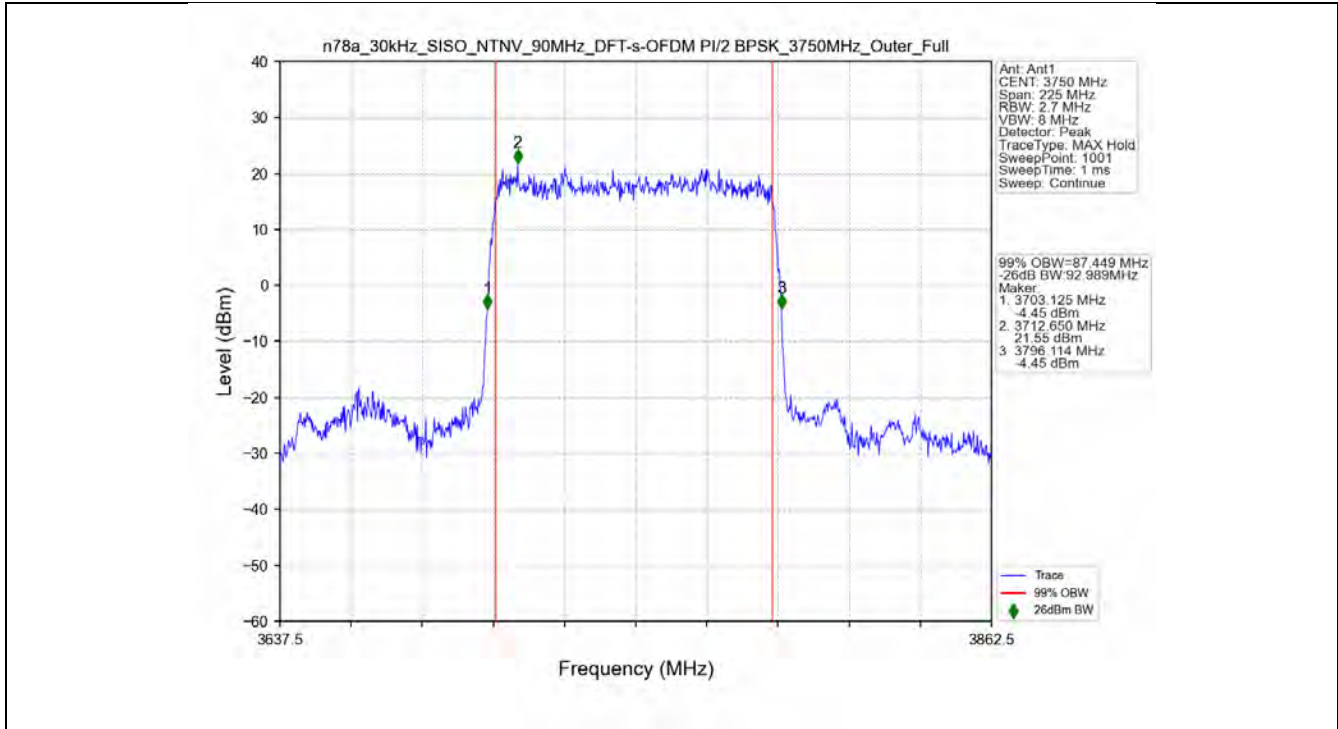


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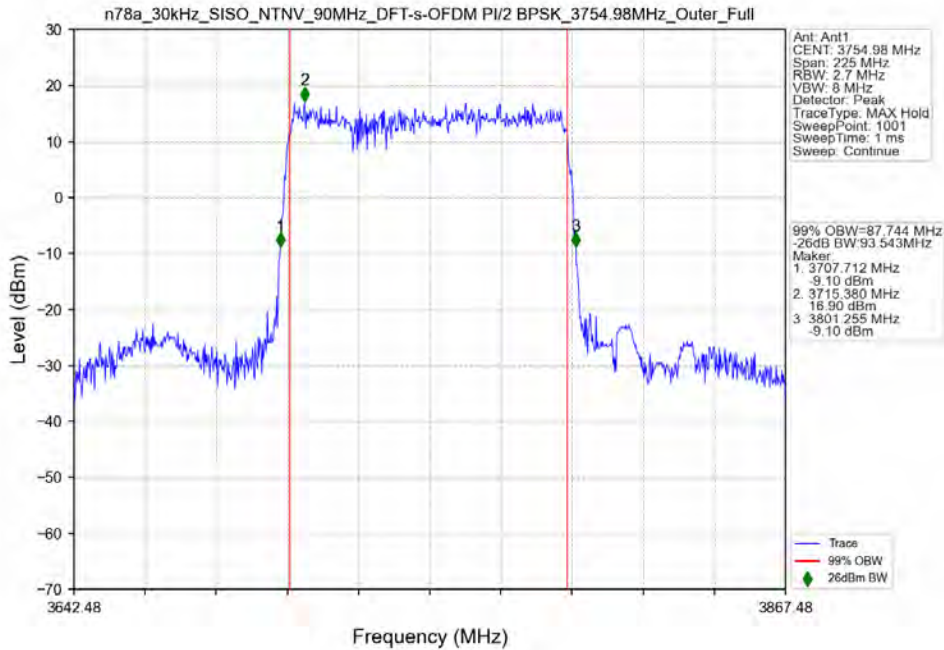
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n78a_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM PI/2 BPSK_3754.98MHz_Outer_Full



n78a_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM QPSK_3745.02MHz_Outer_Full



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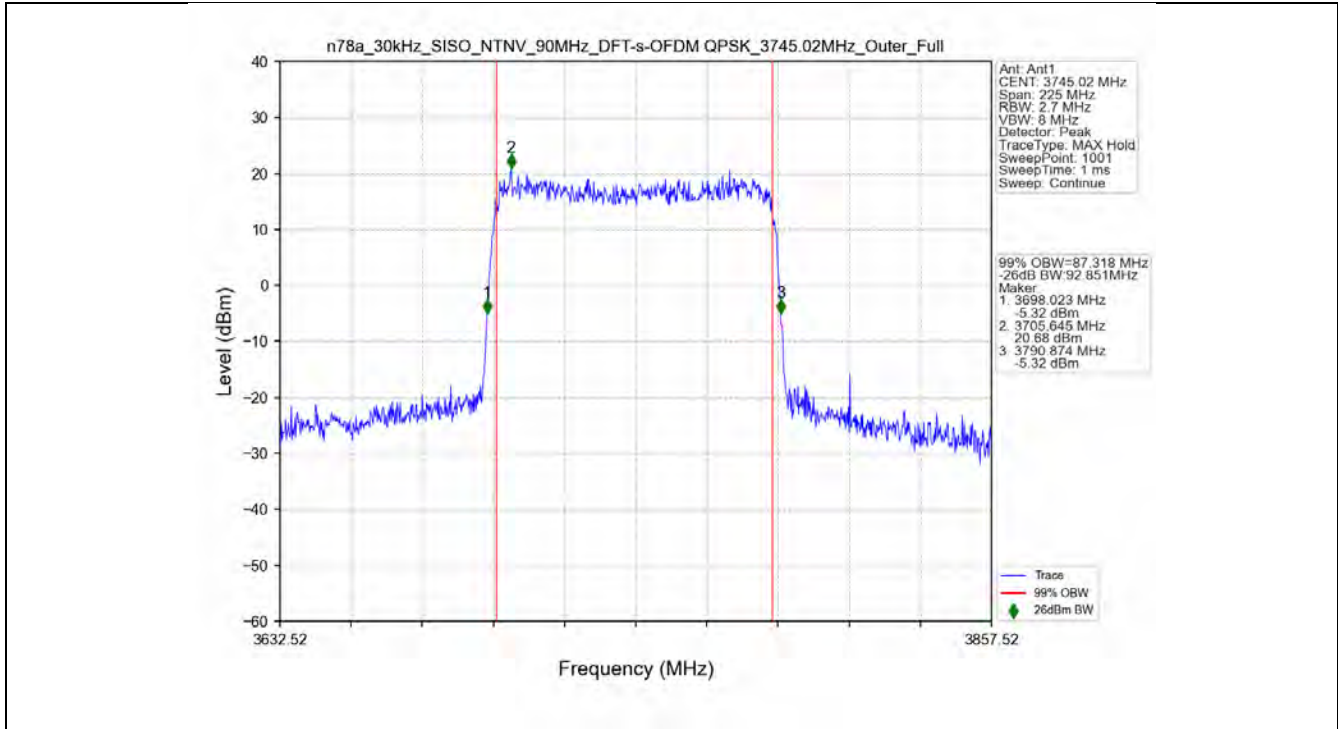


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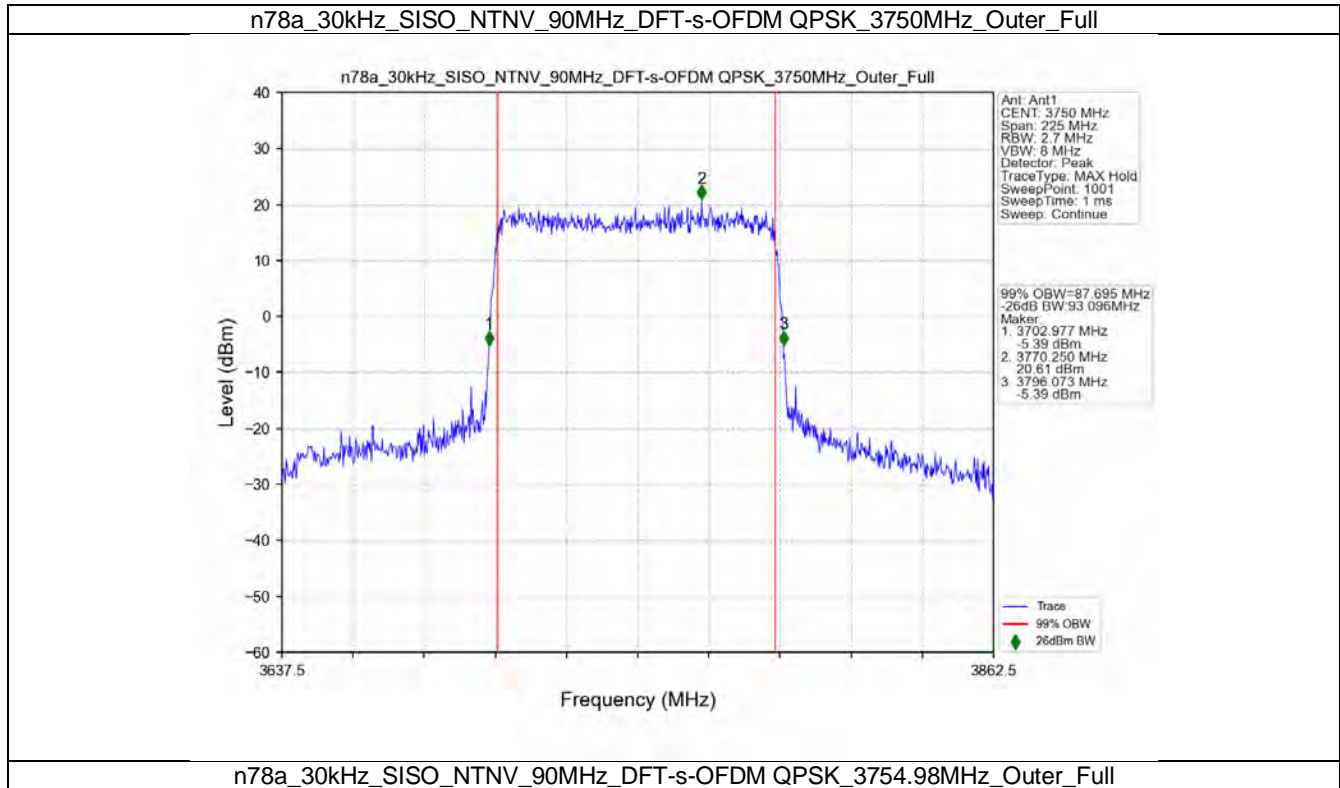


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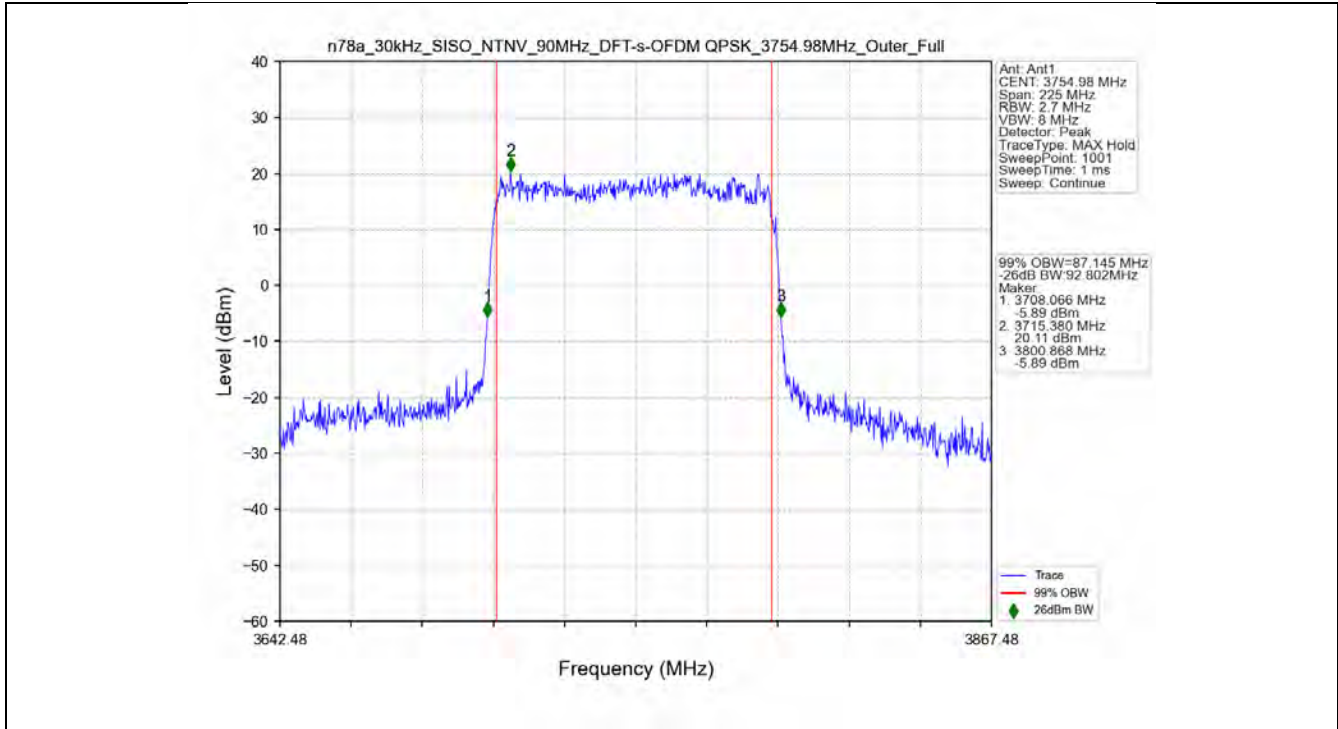


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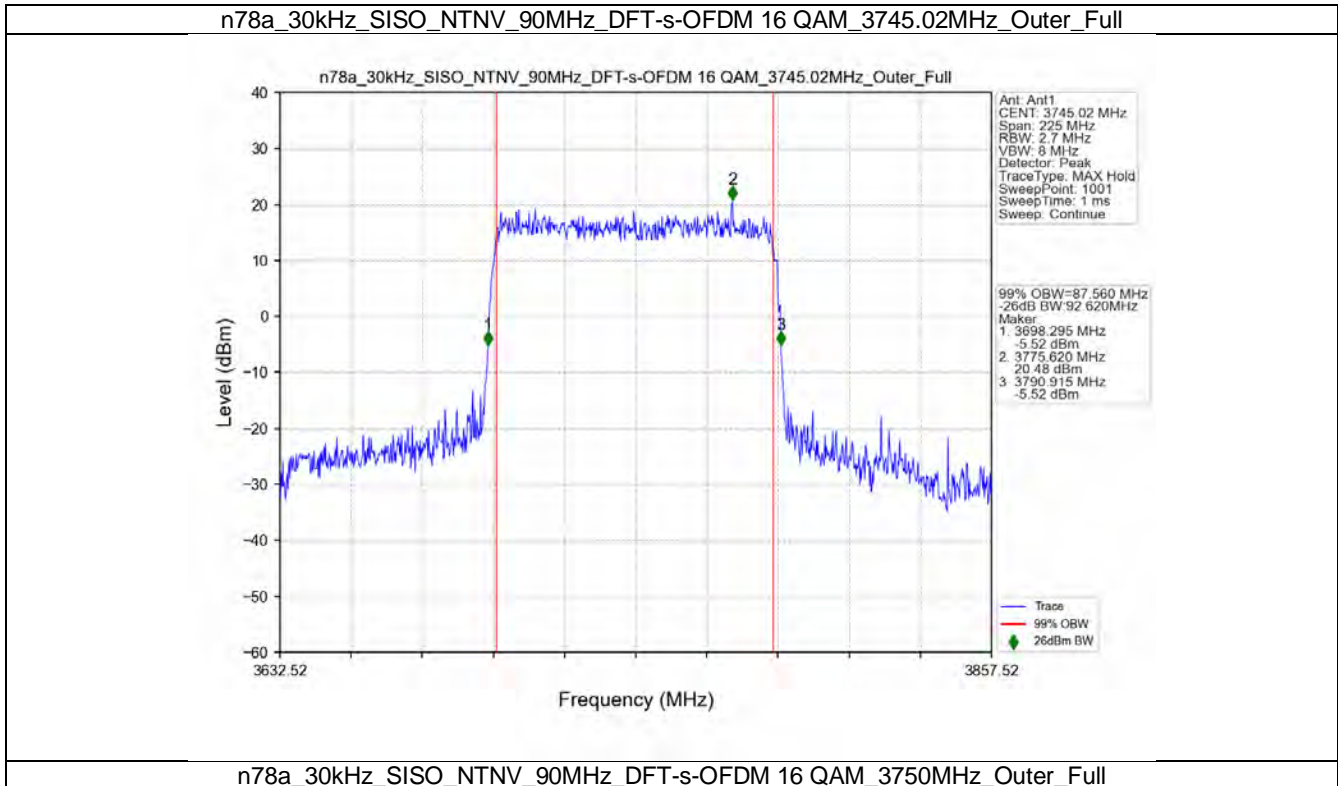


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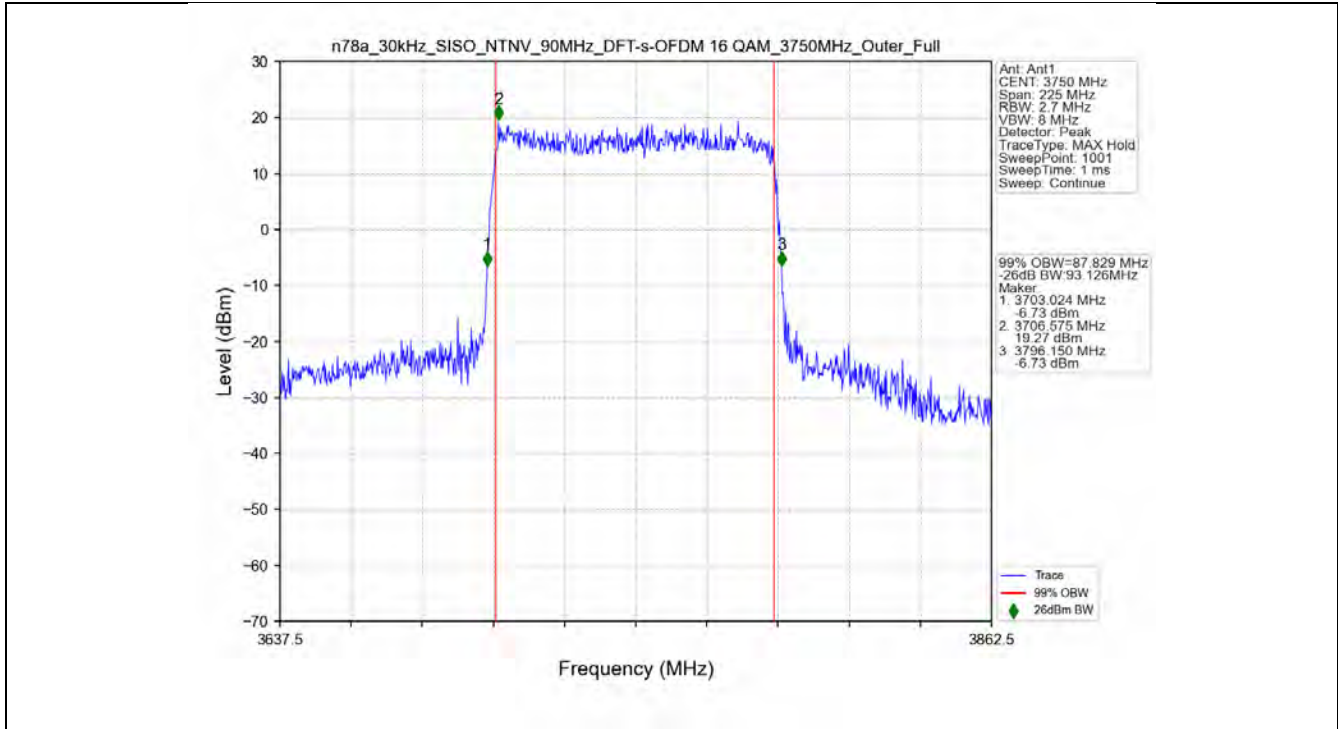


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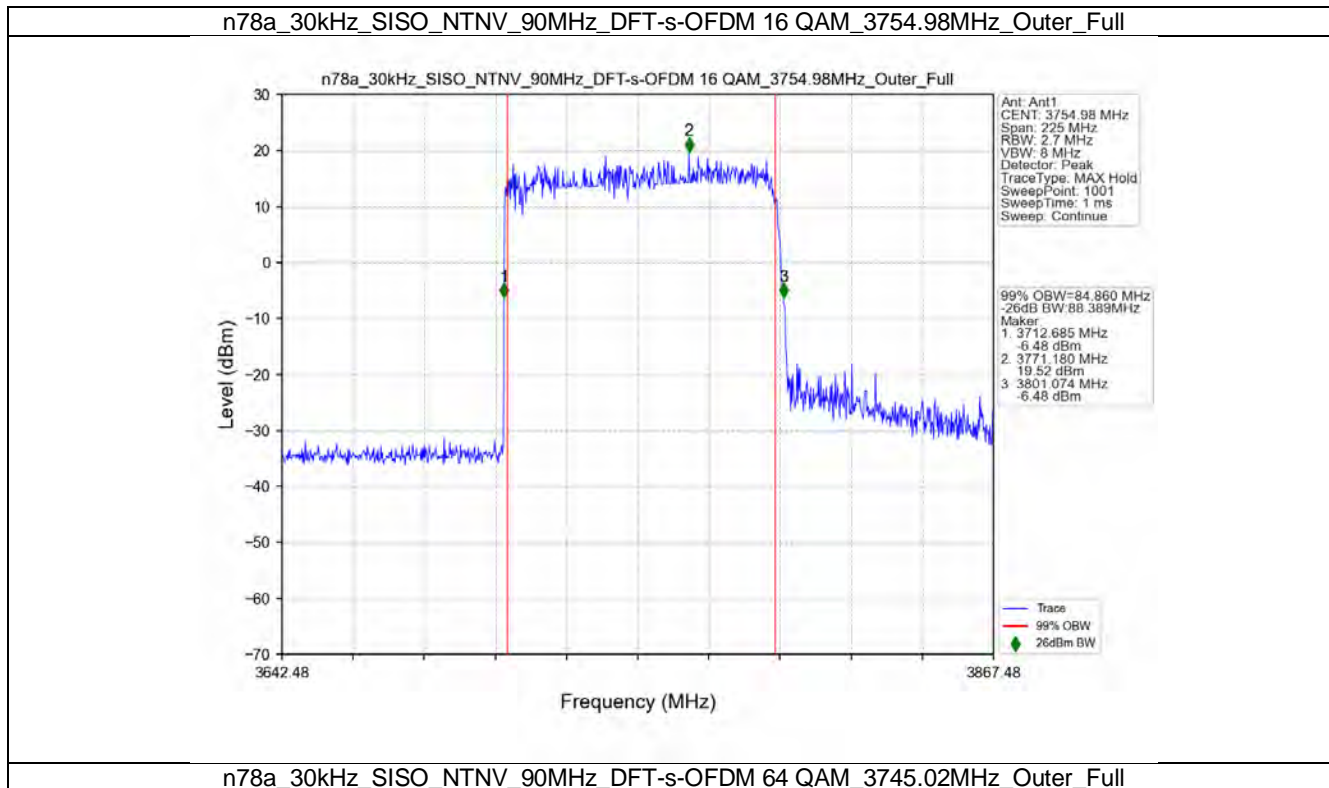
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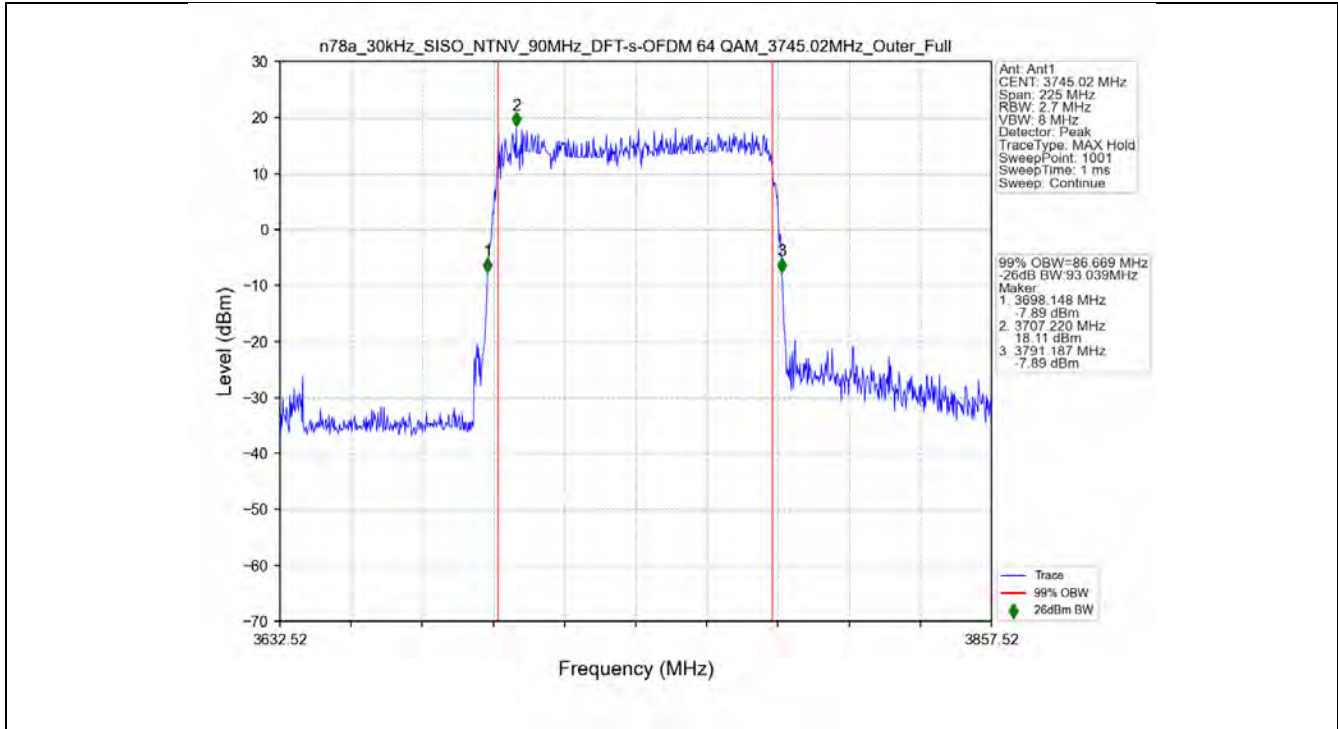


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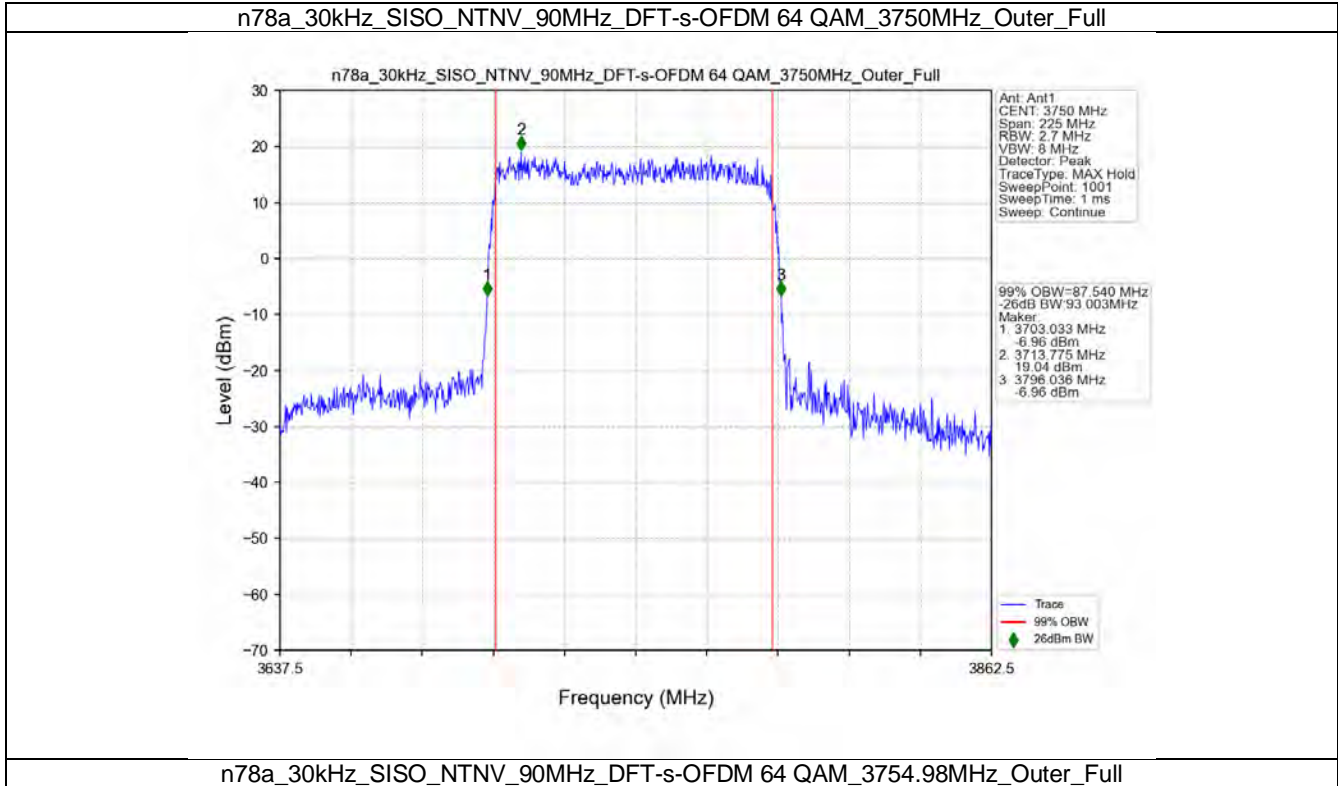


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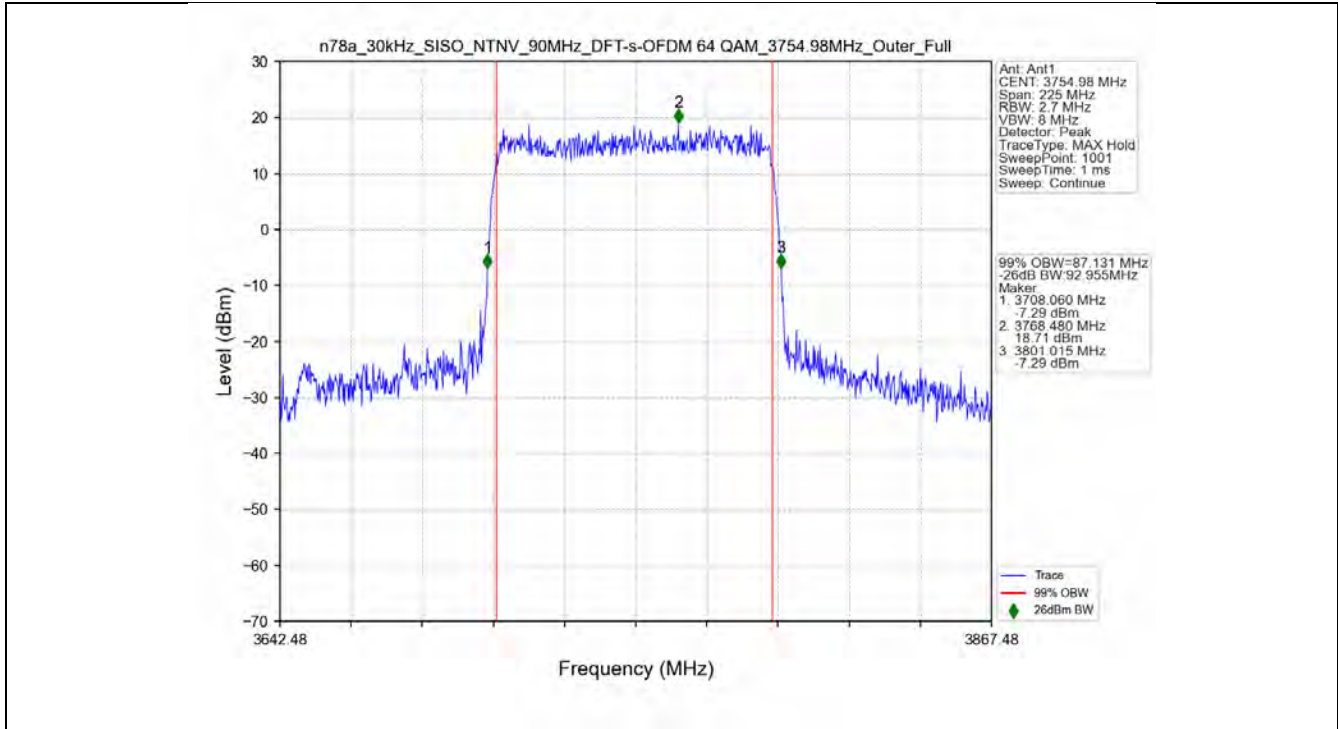


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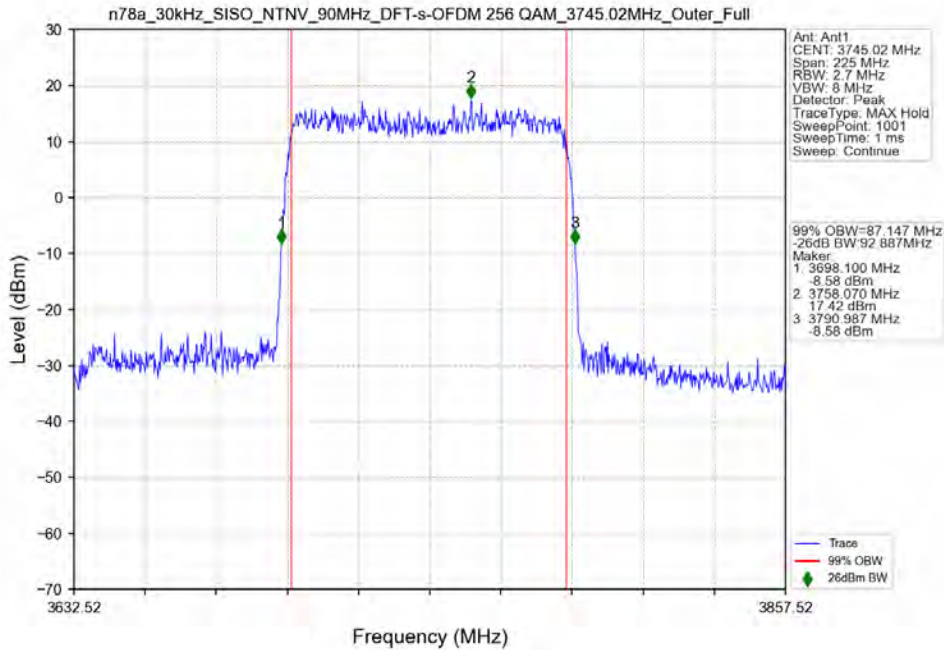
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n78a_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM 256 QAM_3750MHz_Outer_Full



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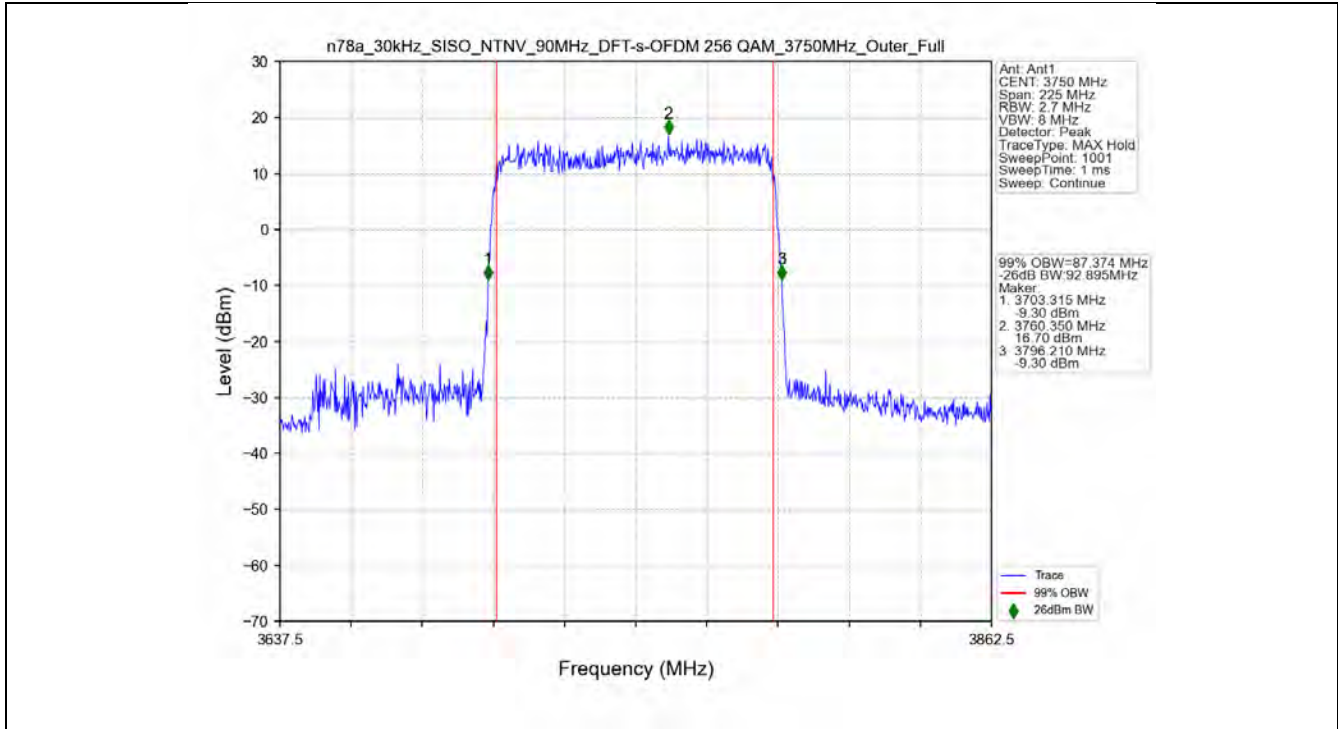


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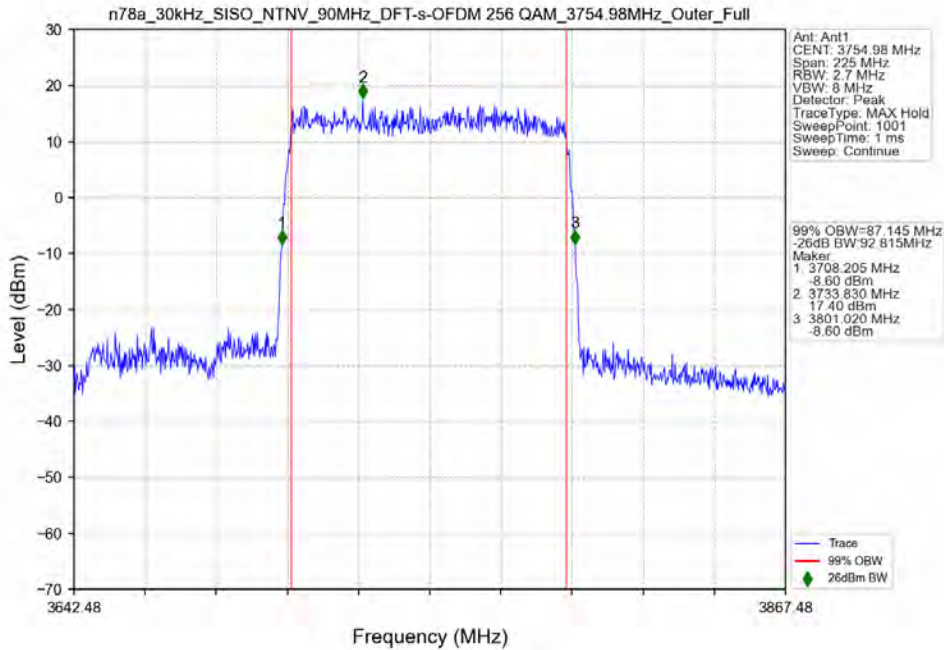
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n78a_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM 256 QAM_3754.98MHz_Outer_Full



n78a_30kHz_SISO_NTNV_90MHz_CP-OFDM QPSK_3745.02MHz_Outer_Full



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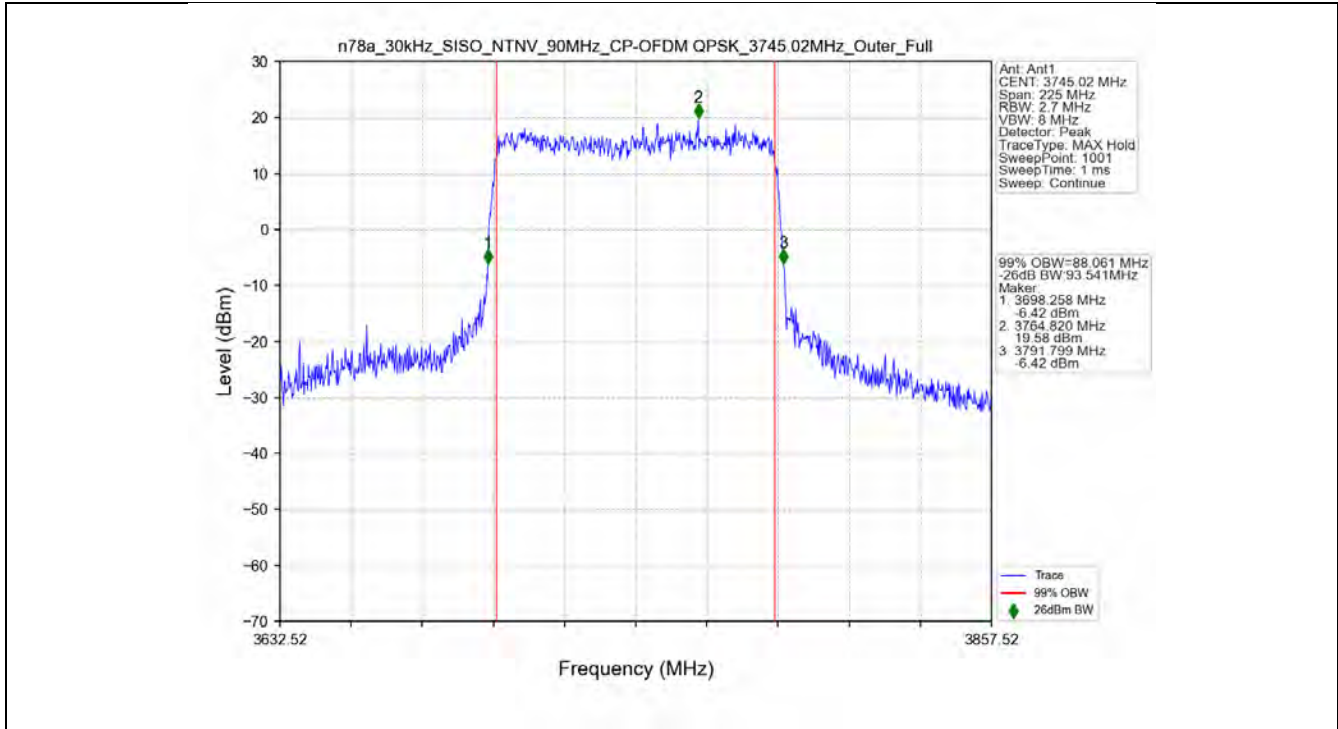


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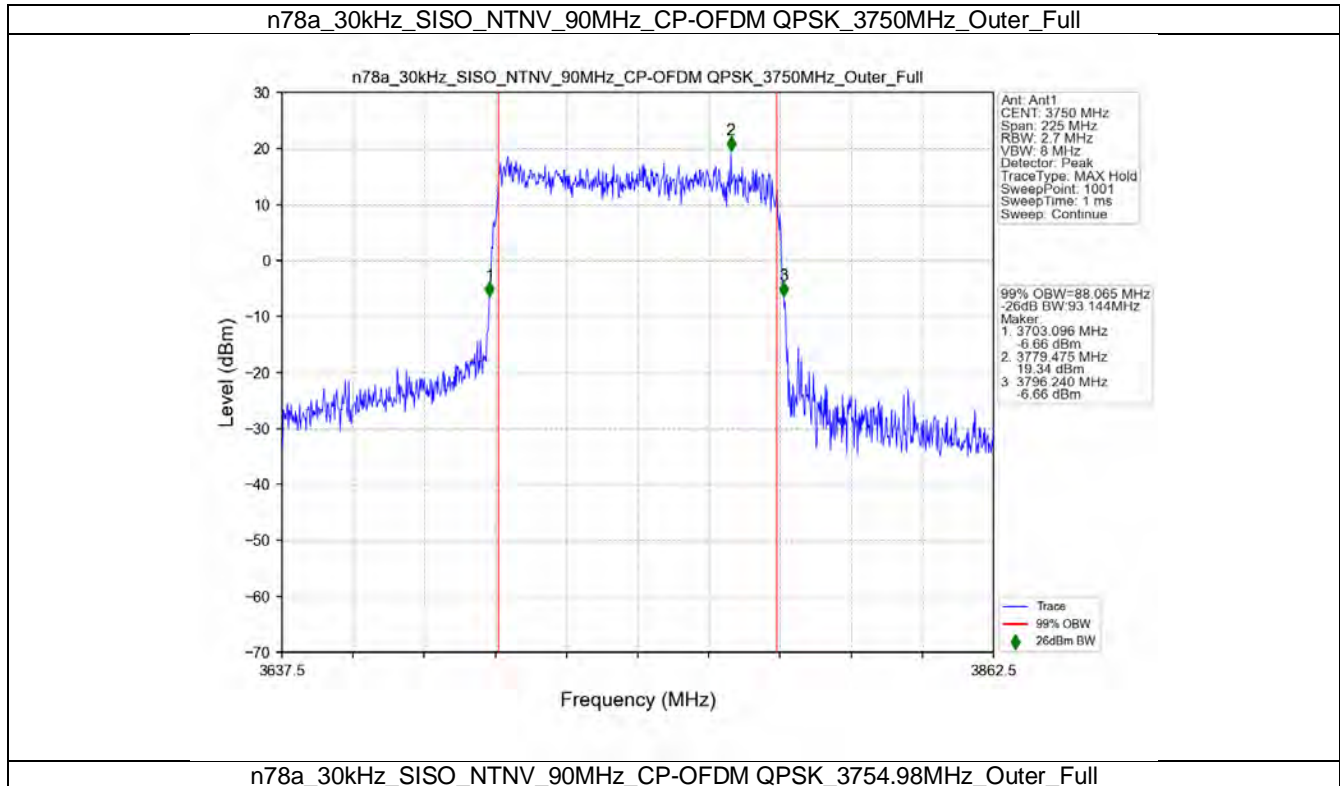


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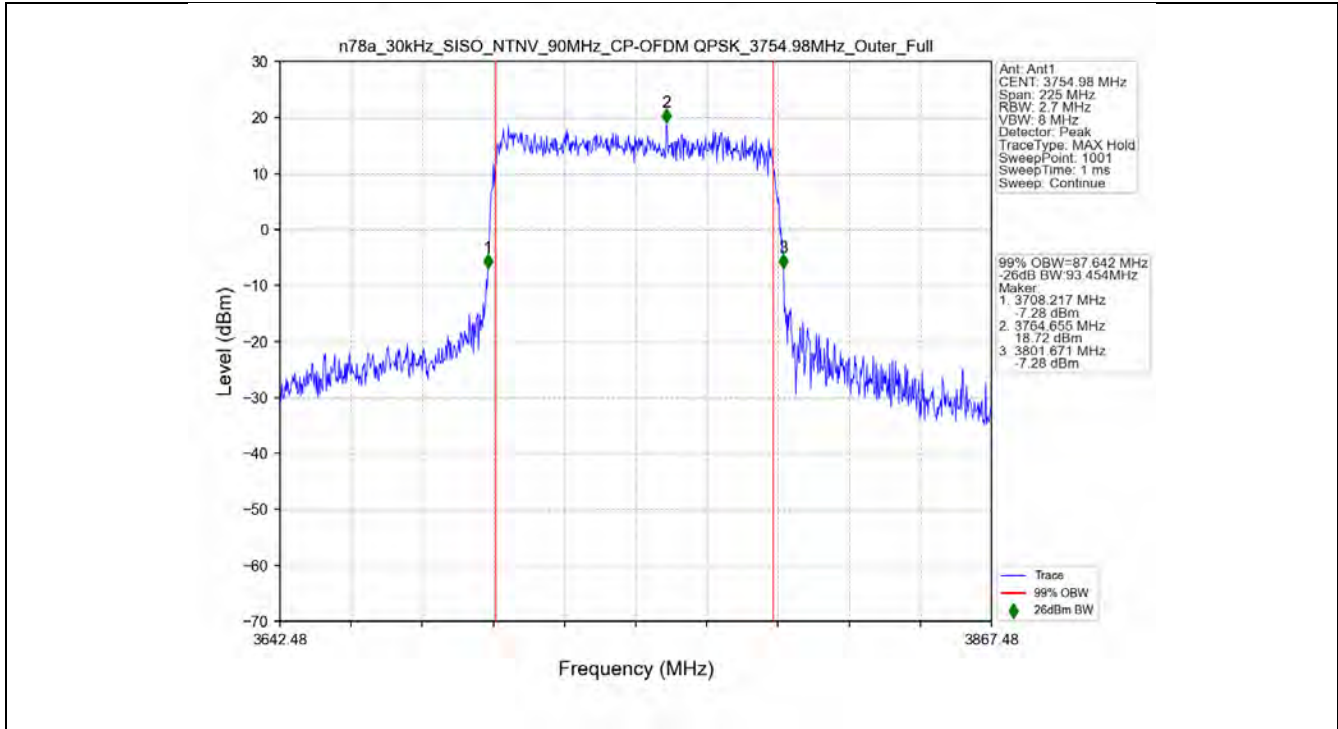


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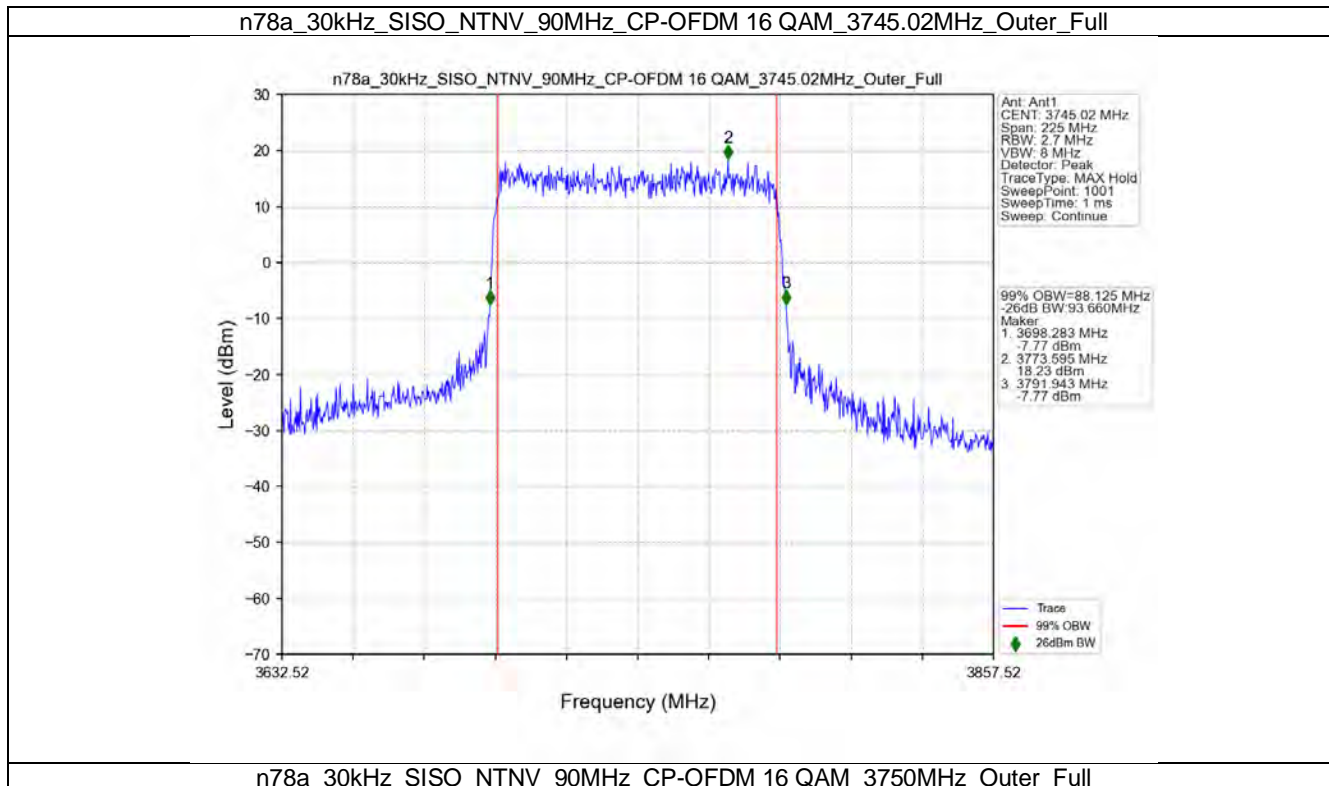
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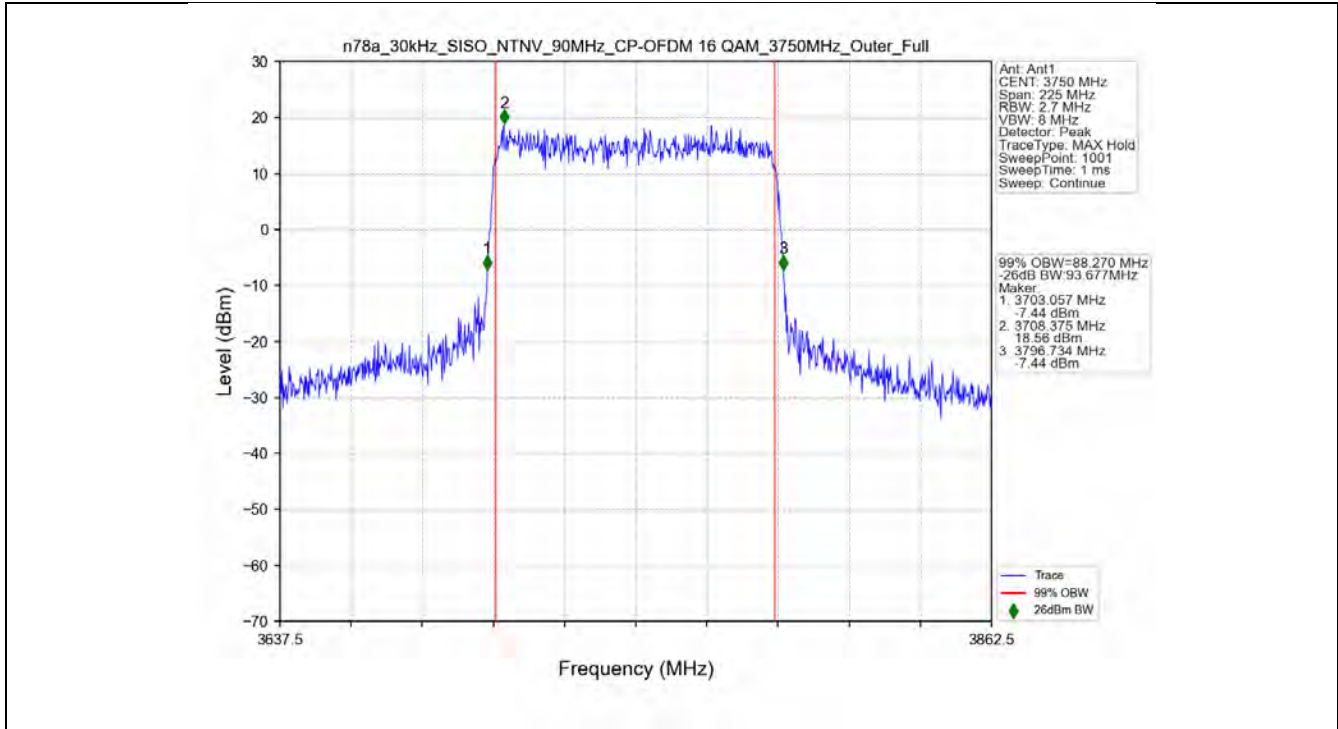


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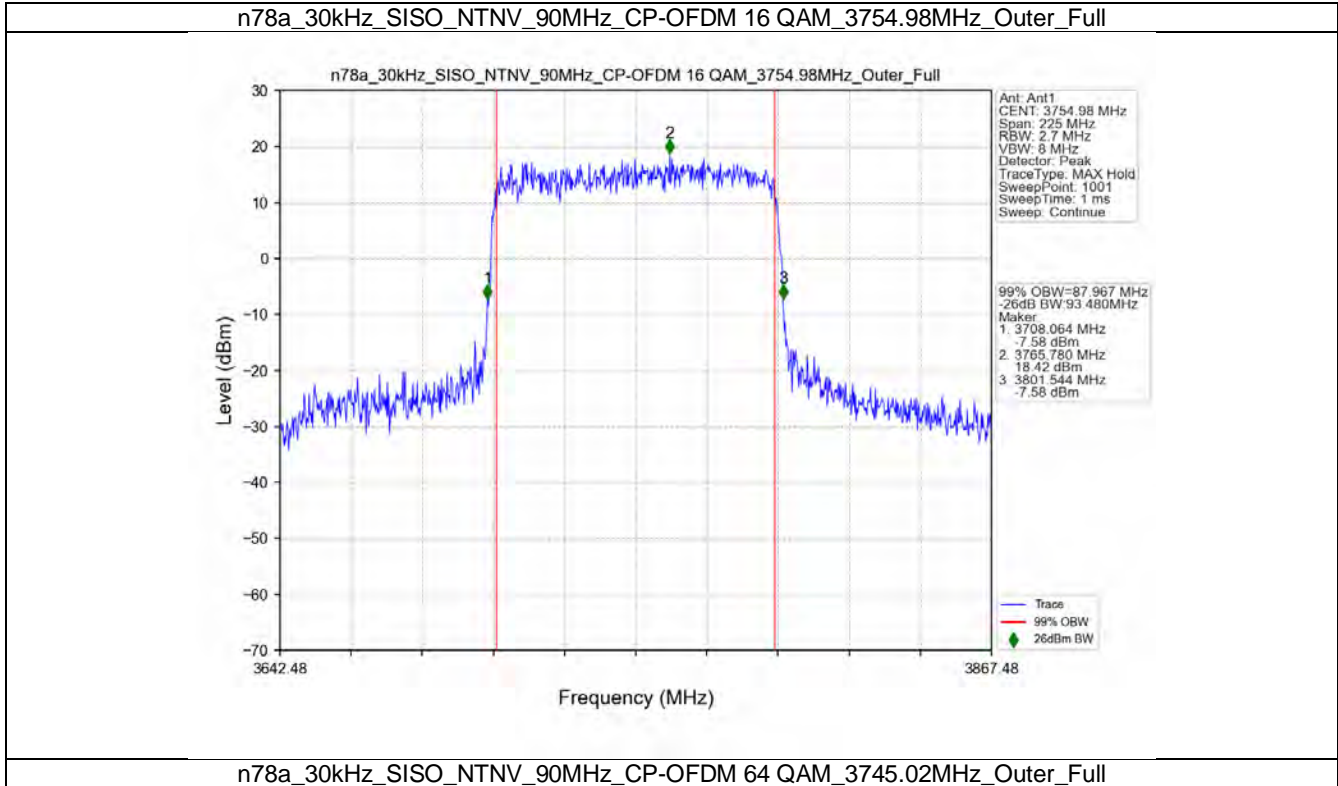


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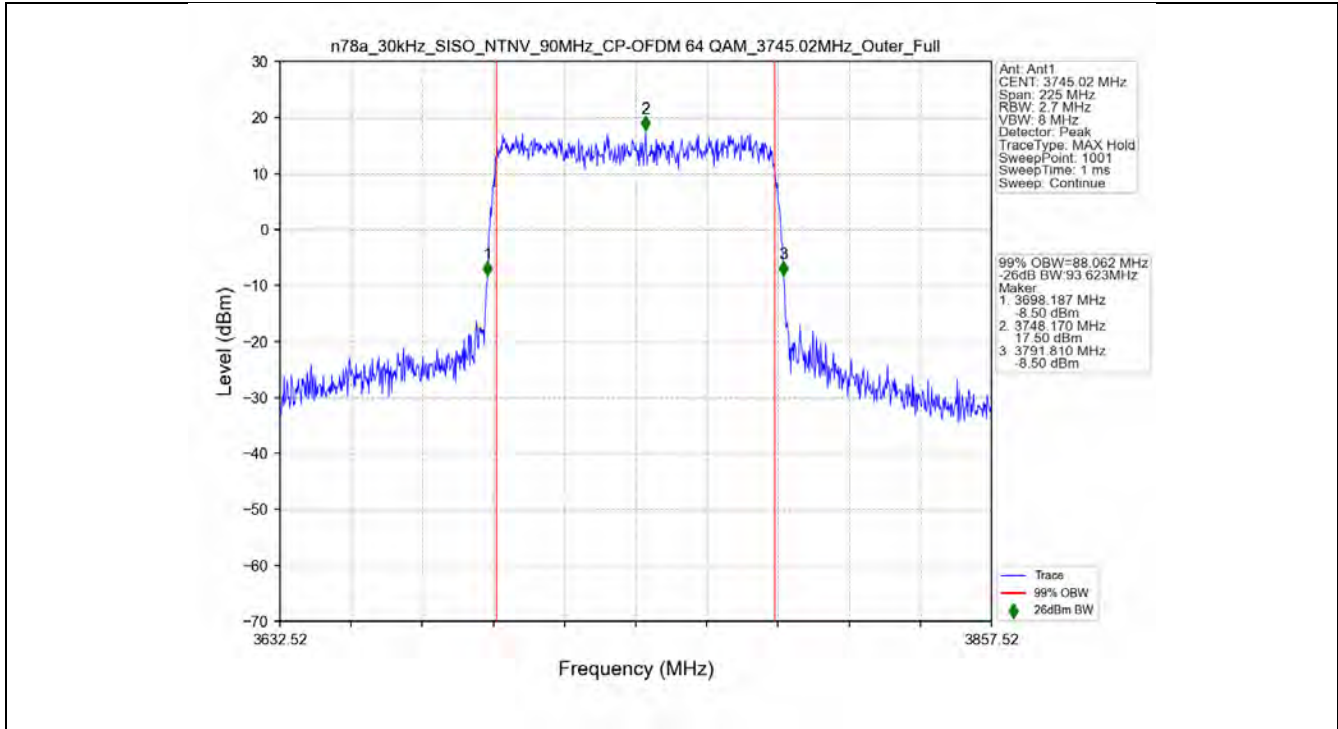


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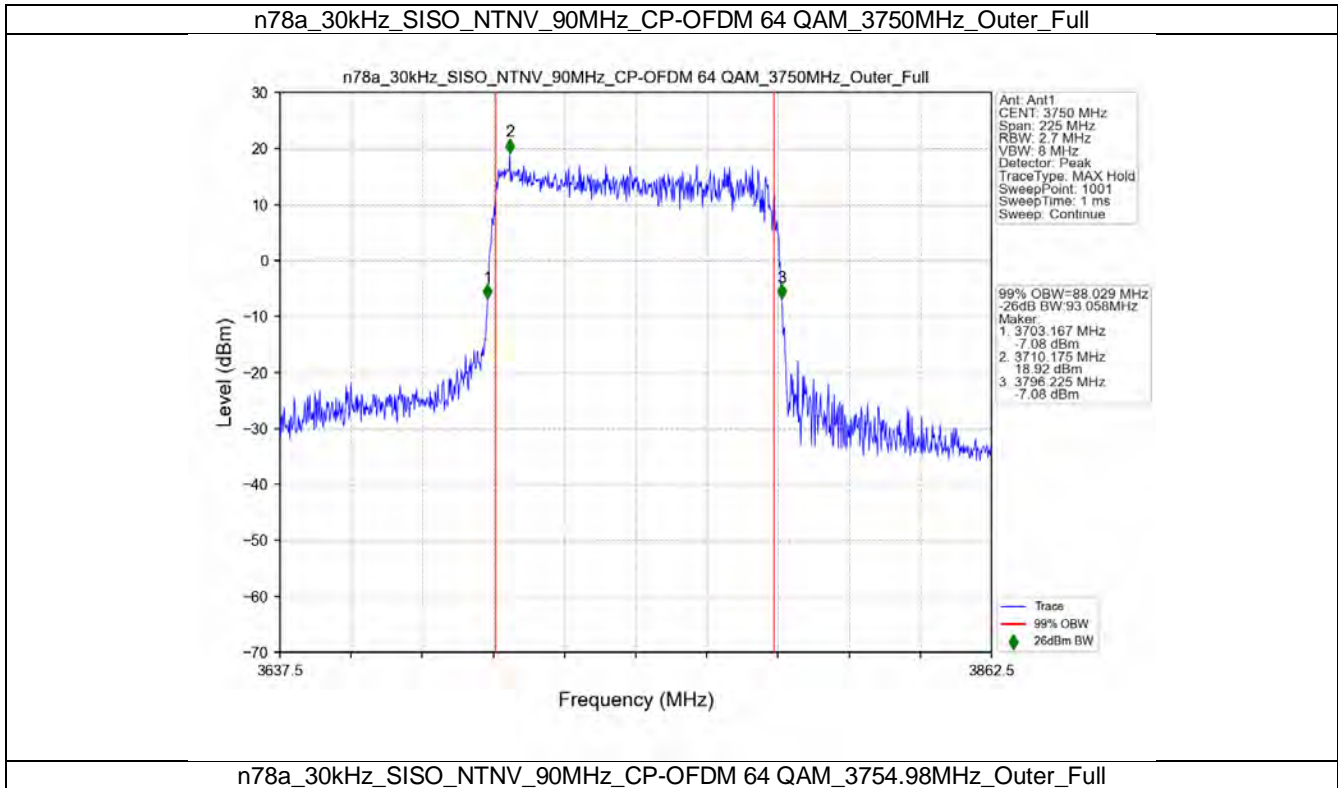


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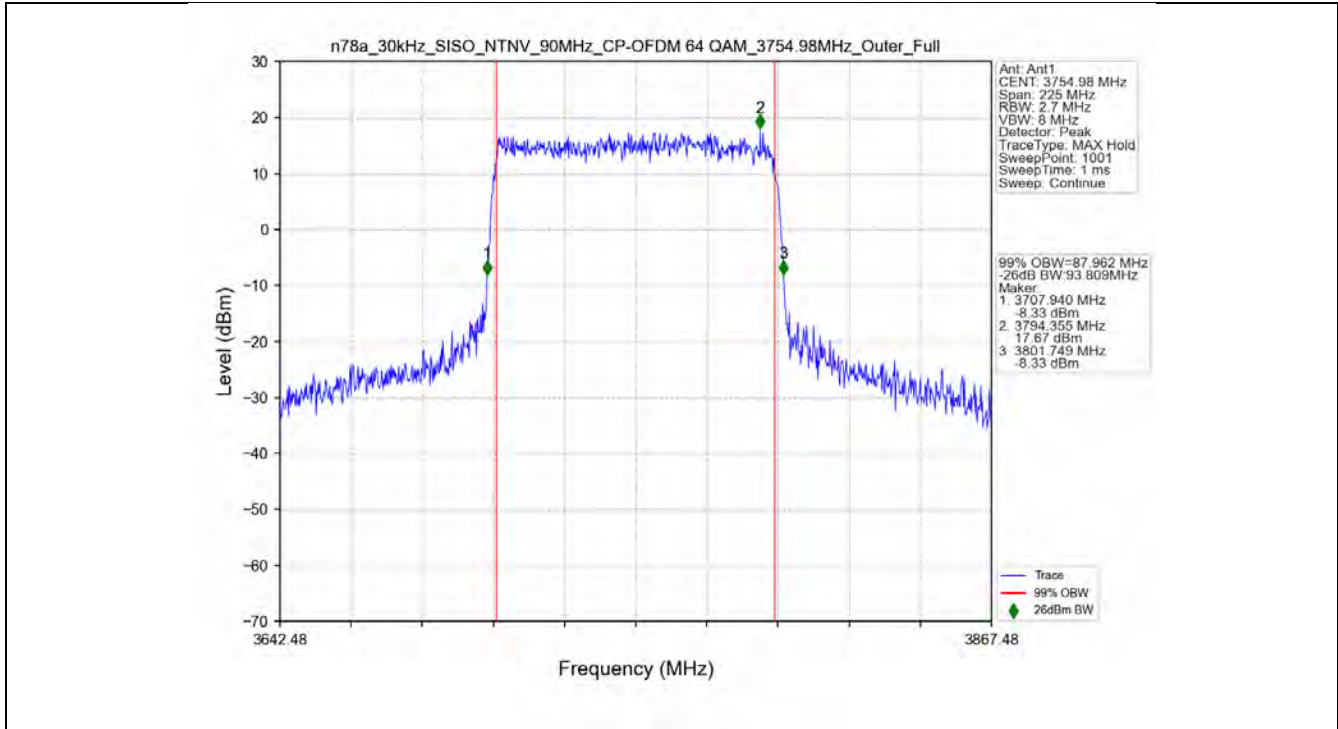


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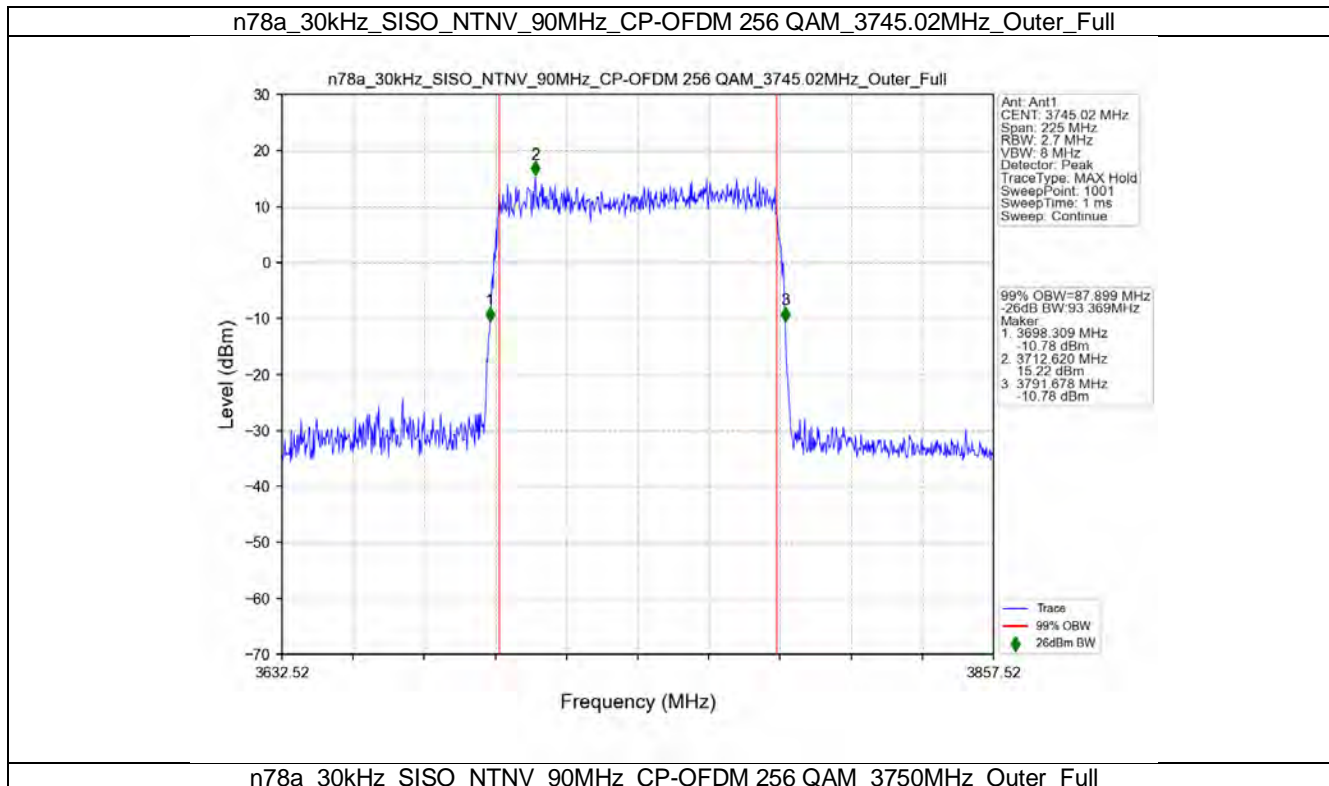
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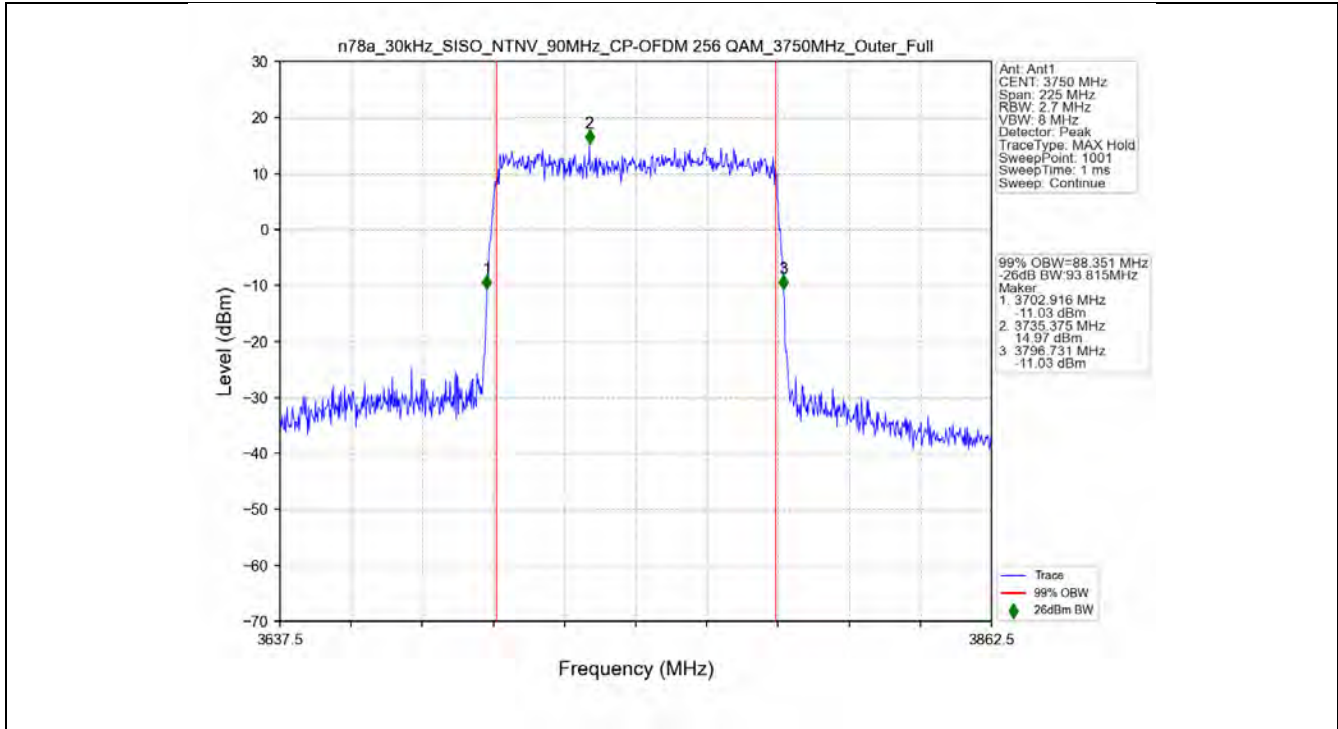


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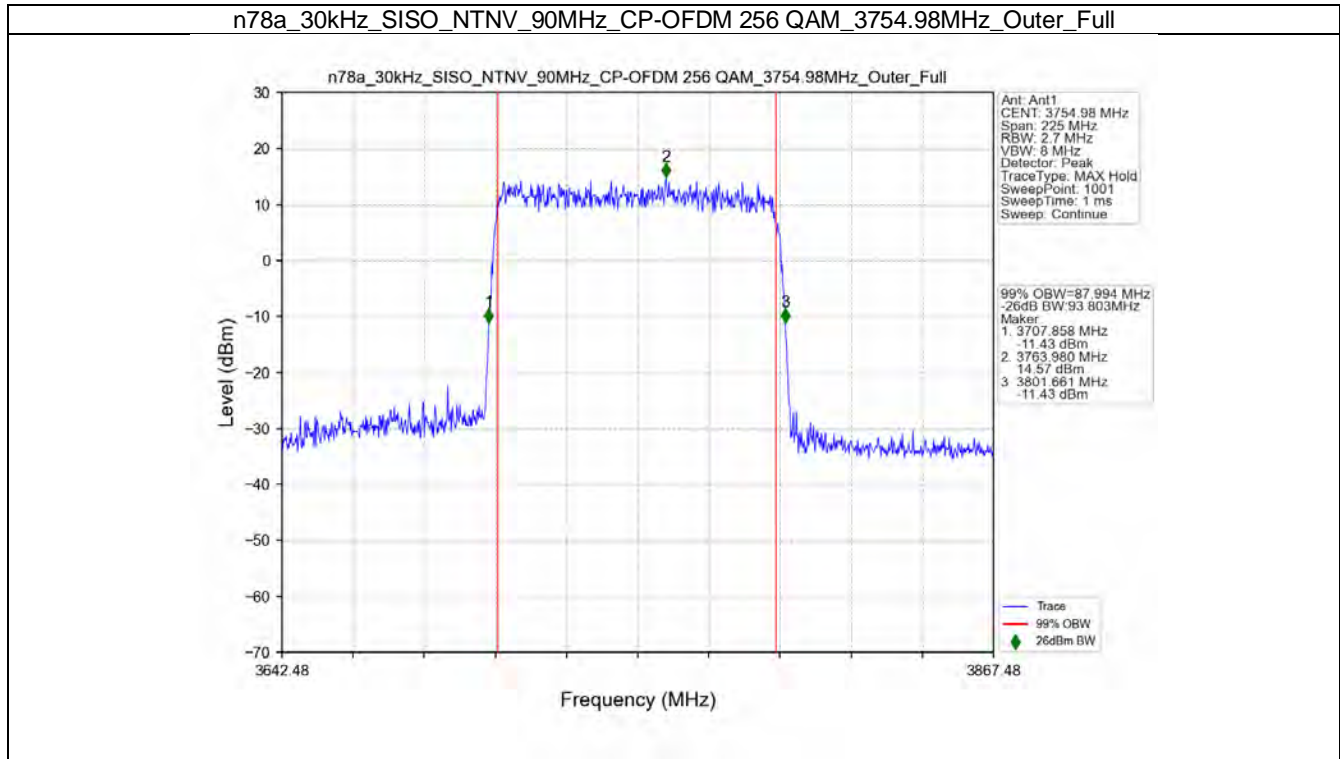


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3.9 30k_SISO_100MHz_NTNV

3.9.1 Test Result

5G NR n78a SCS=30kHz SISO 100MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3750	Outer_Full	97.13	103.83	/	Pass
	3750	Outer_Full	97.06	102.97	/	Pass
	3750	Outer_Full	97.10	103.82	/	Pass
DFT-s-OFDM QPSK	3750	Outer_Full	97.59	103.15	/	Pass
	3750	Outer_Full	97.12	103.50	/	Pass
	3750	Outer_Full	97.10	103.20	/	Pass
DFT-s-OFDM 16 QAM	3750	Outer_Full	97.26	103.20	/	Pass
	3750	Outer_Full	96.78	103.04	/	Pass
	3750	Outer_Full	97.36	103.15	/	Pass
DFT-s-OFDM 64 QAM	3750	Outer_Full	96.91	103.15	/	Pass
	3750	Outer_Full	96.97	102.89	/	Pass
	3750	Outer_Full	97.71	103.02	/	Pass
DFT-s-OFDM 256 QAM	3750	Outer_Full	97.36	103.30	/	Pass
	3750	Outer_Full	96.97	103.40	/	Pass
	3750	Outer_Full	97.12	103.06	/	Pass
CP-OFDM QPSK	3750	Outer_Full	98.22	104.28	/	Pass
	3750	Outer_Full	98.28	104.58	/	Pass
	3750	Outer_Full	98.22	104.44	/	Pass
CP-OFDM 16 QAM	3750	Outer_Full	98.09	104.52	/	Pass
	3750	Outer_Full	97.95	104.35	/	Pass
	3750	Outer_Full	97.72	104.22	/	Pass
CP-OFDM 64 QAM	3750	Outer_Full	98.28	104.51	/	Pass
	3750	Outer_Full	98.09	104.05	/	Pass
	3750	Outer_Full	98.16	104.61	/	Pass
CP-OFDM 256 QAM	3750	Outer_Full	98.19	104.40	/	Pass
	3750	Outer_Full	98.02	104.17	/	Pass
	3750	Outer_Full	97.94	104.28	/	Pass



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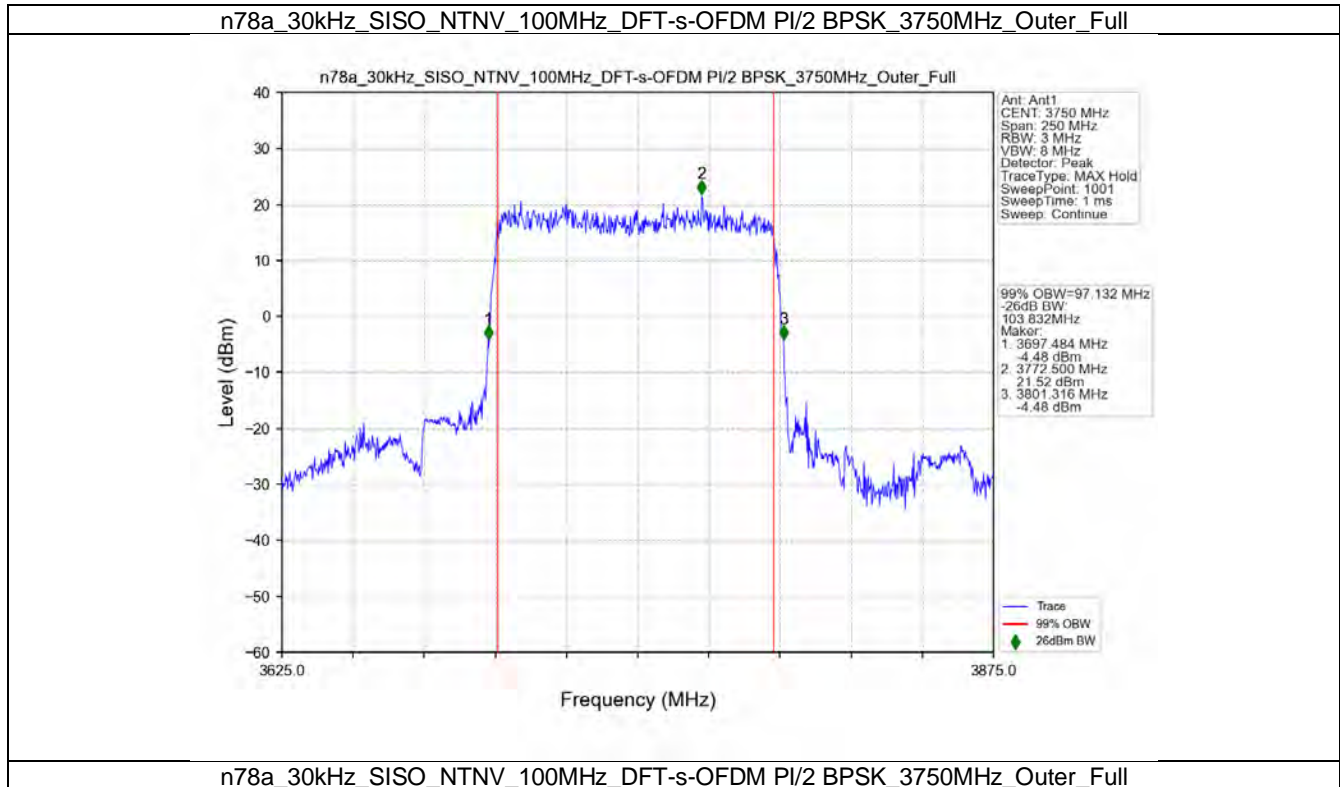
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3.9.2 Test Graph



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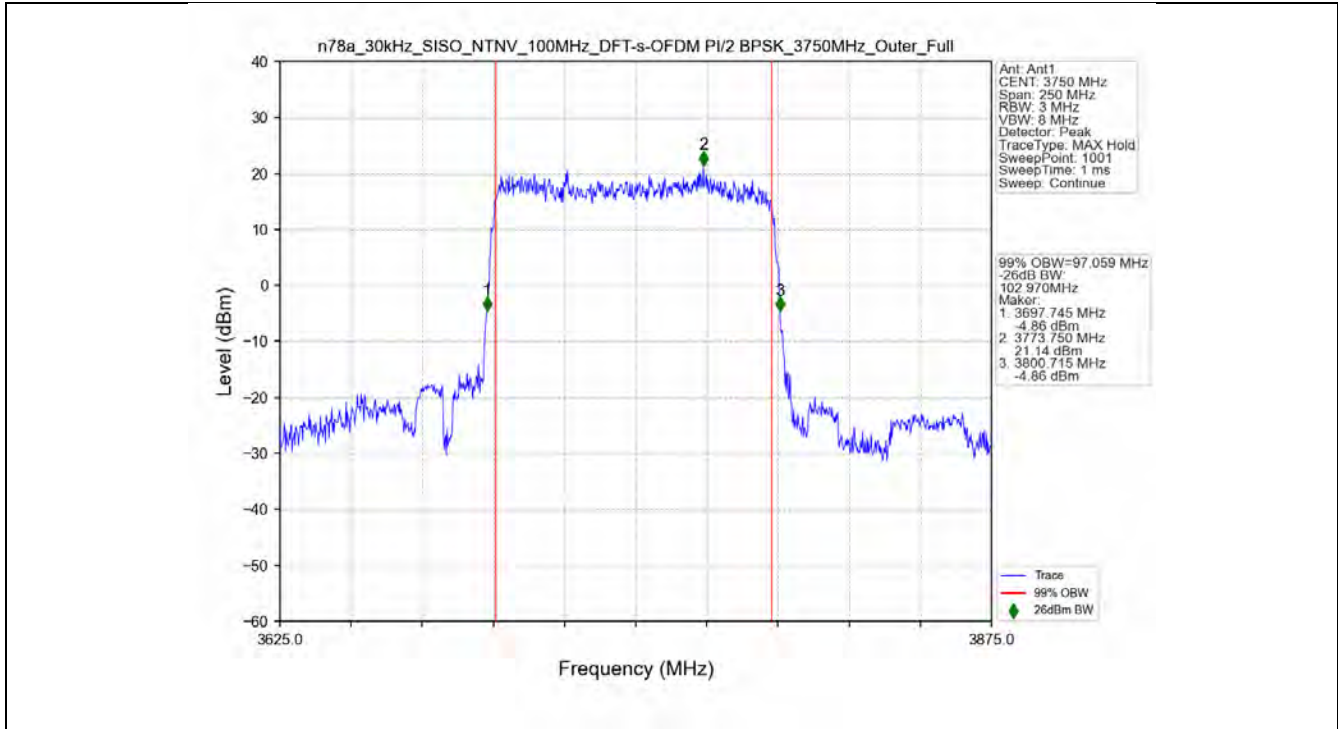


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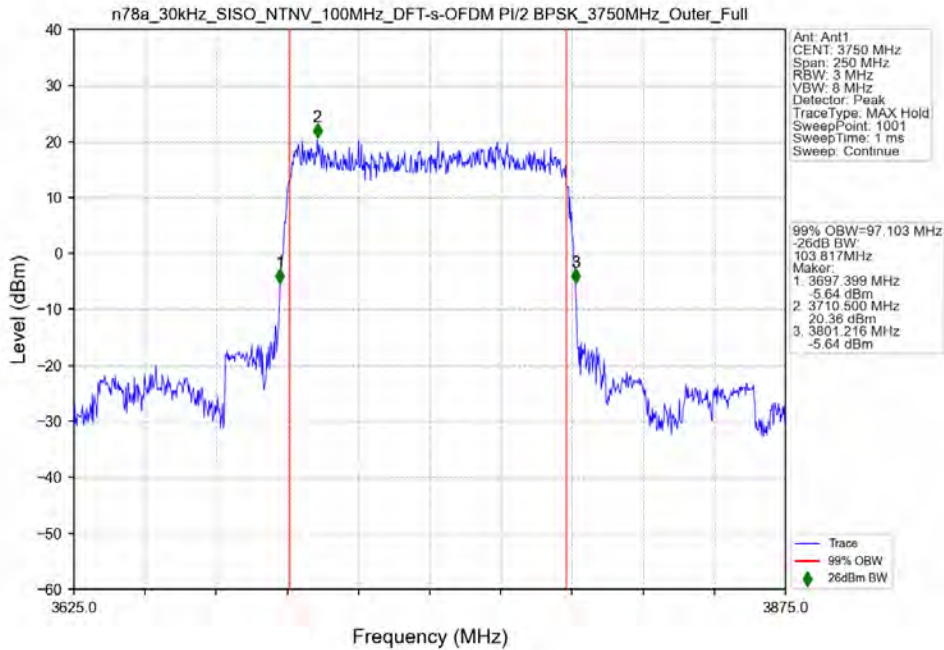
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n78a_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM PI/2 BPSK_3750MHz_Outer_Full



n78a_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM QPSK_3750MHz_Outer_Full



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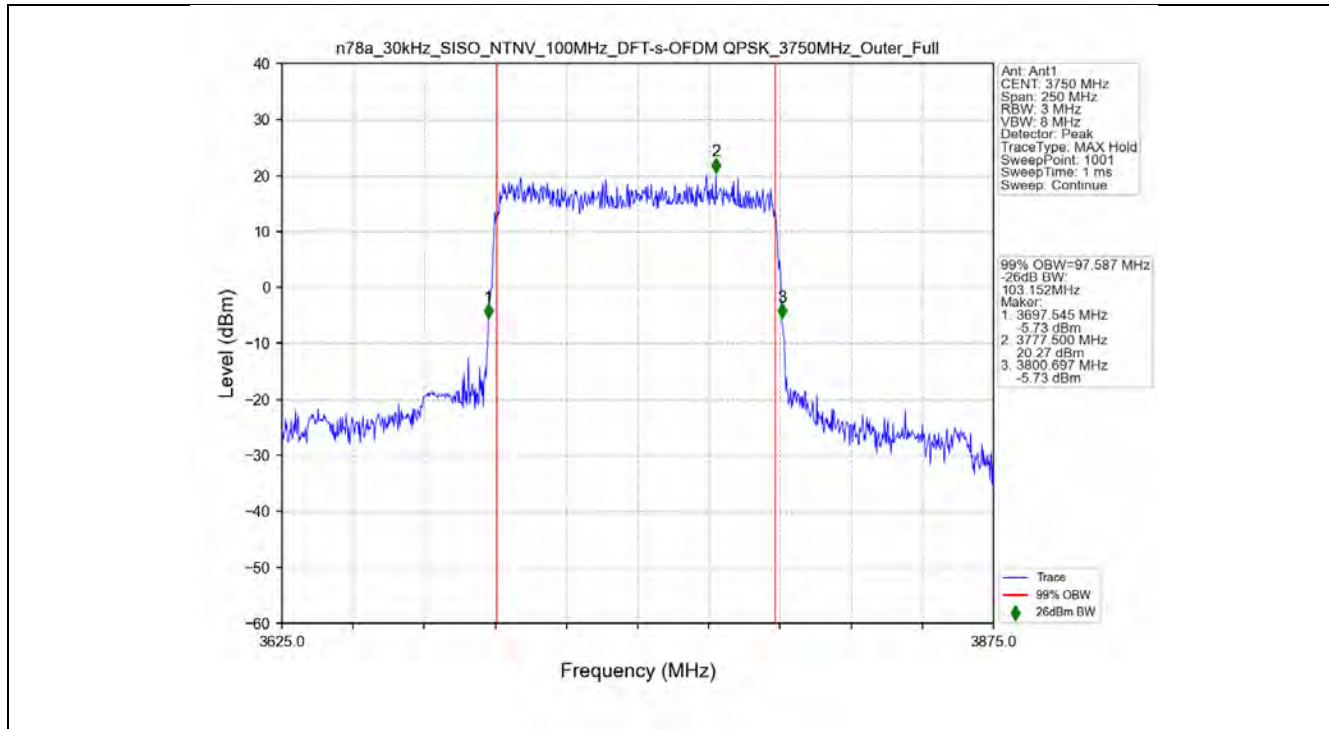
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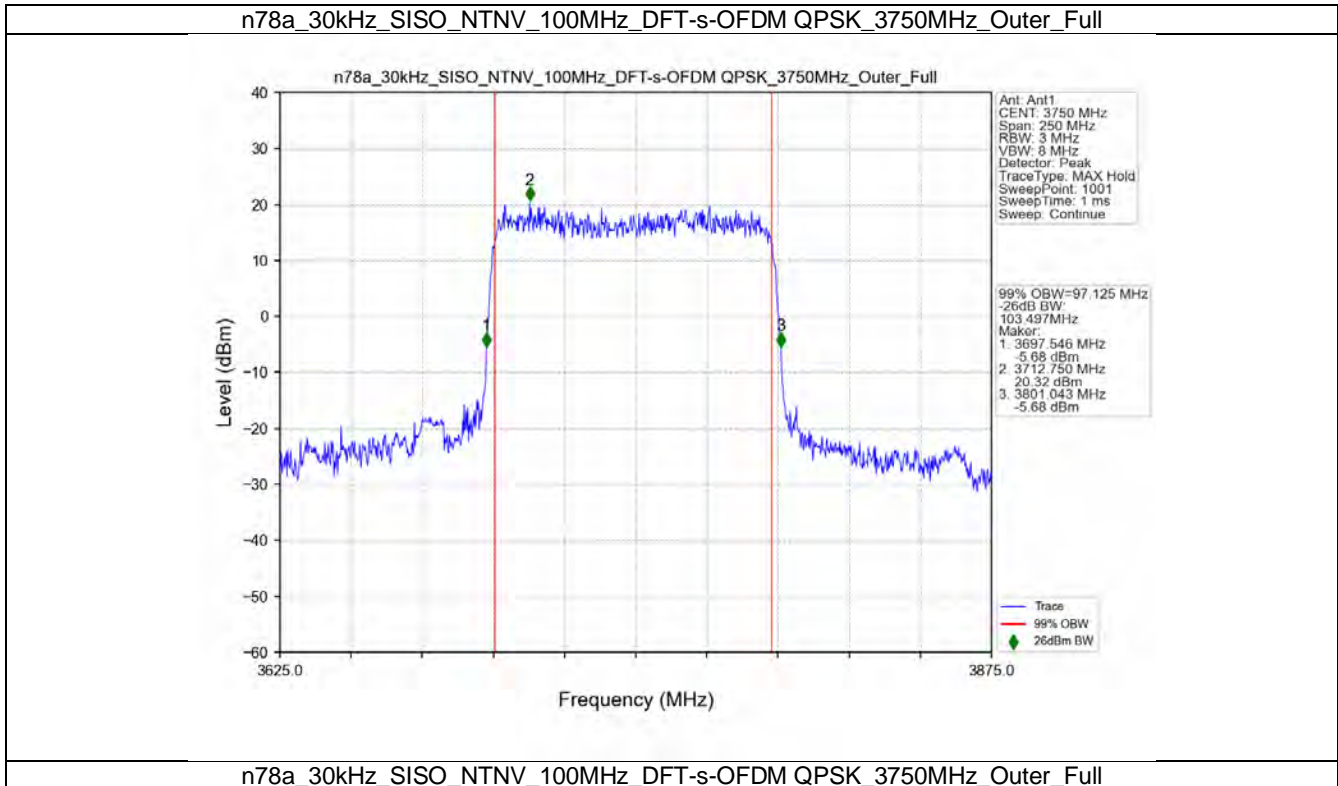


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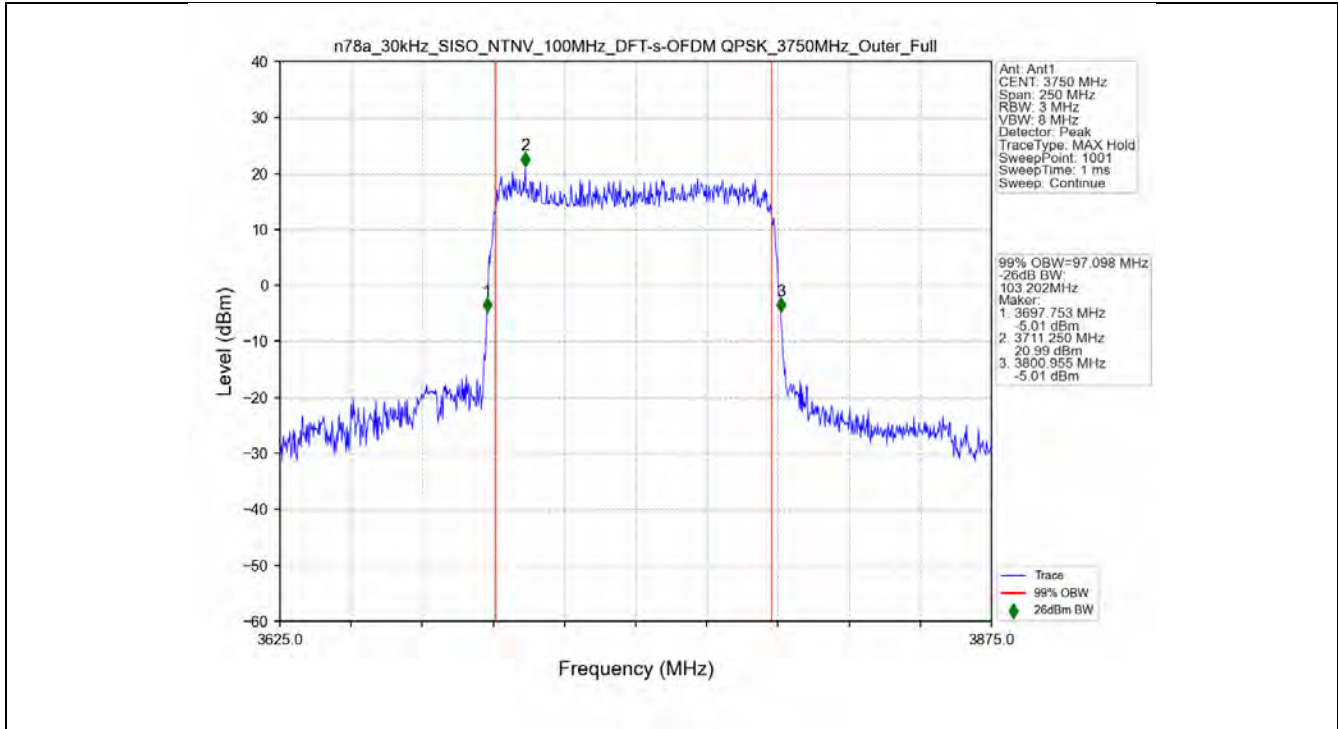


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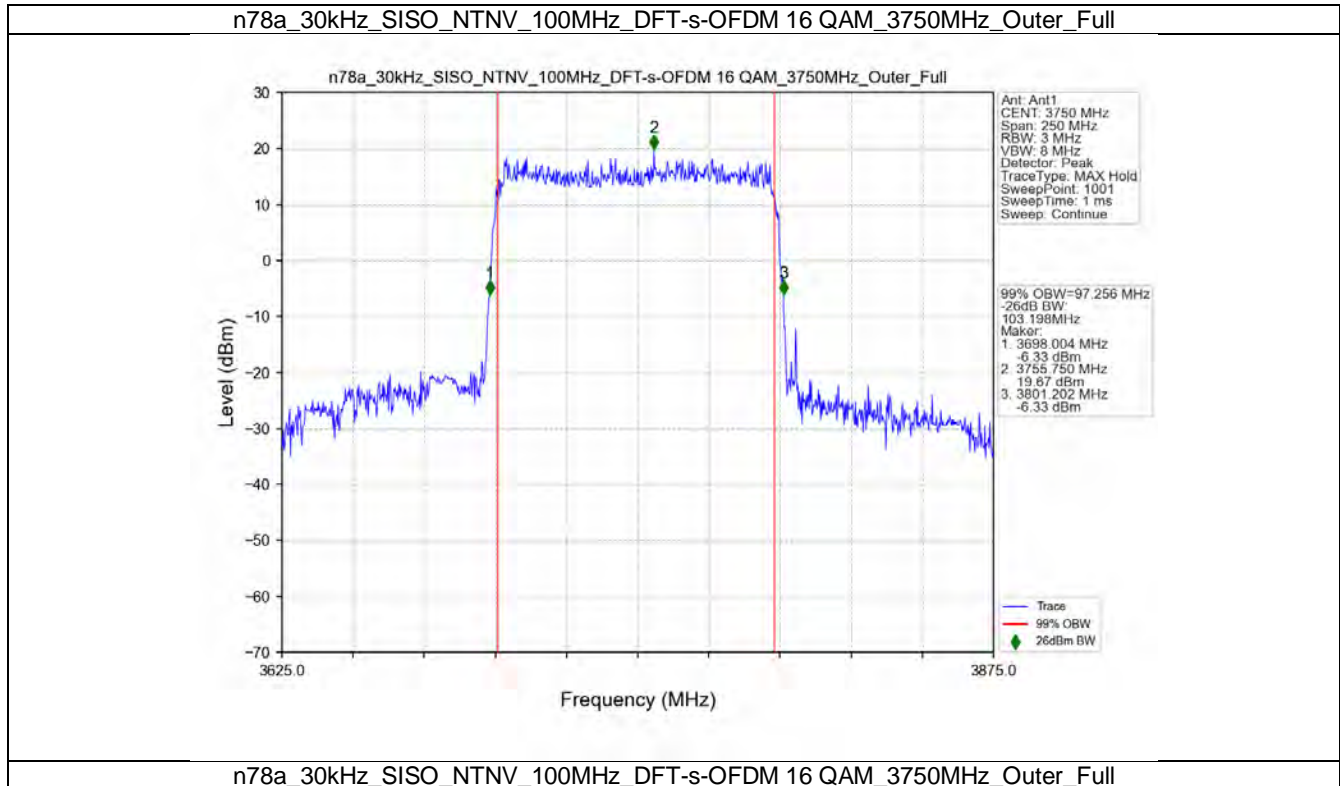


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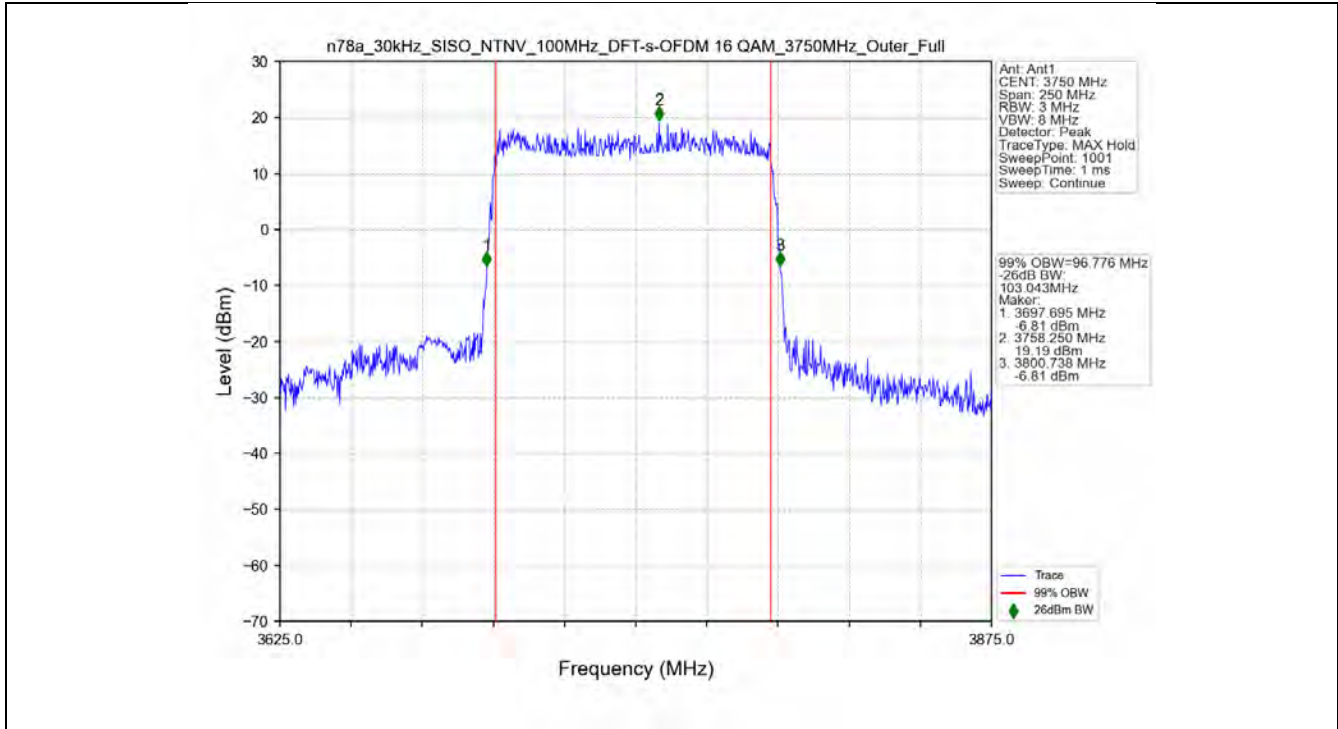


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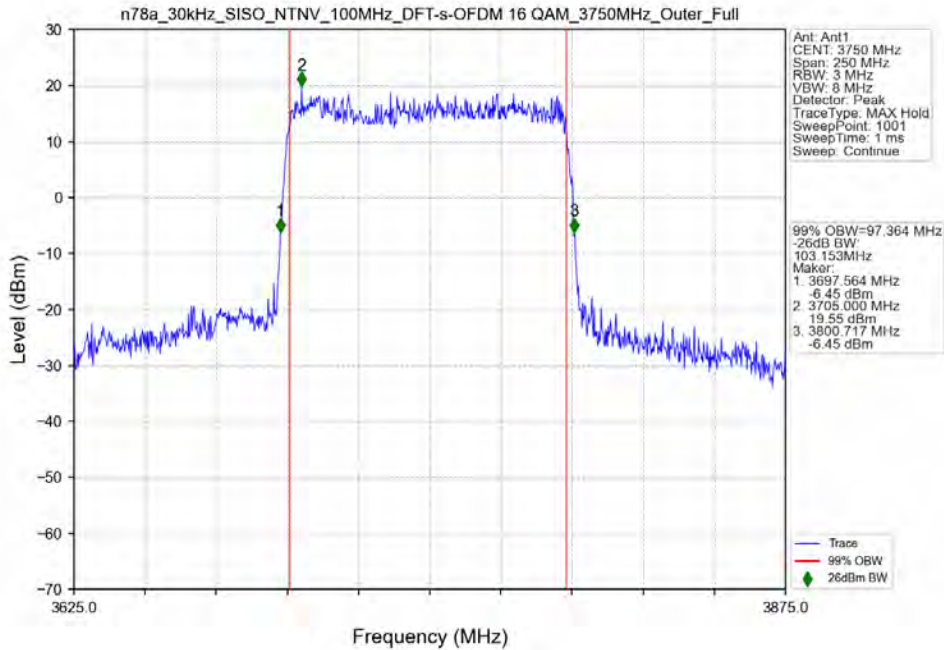
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n78a_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 16 QAM_3750MHz_Outer_Full



n78a_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 64 QAM_3750MHz_Outer_Full



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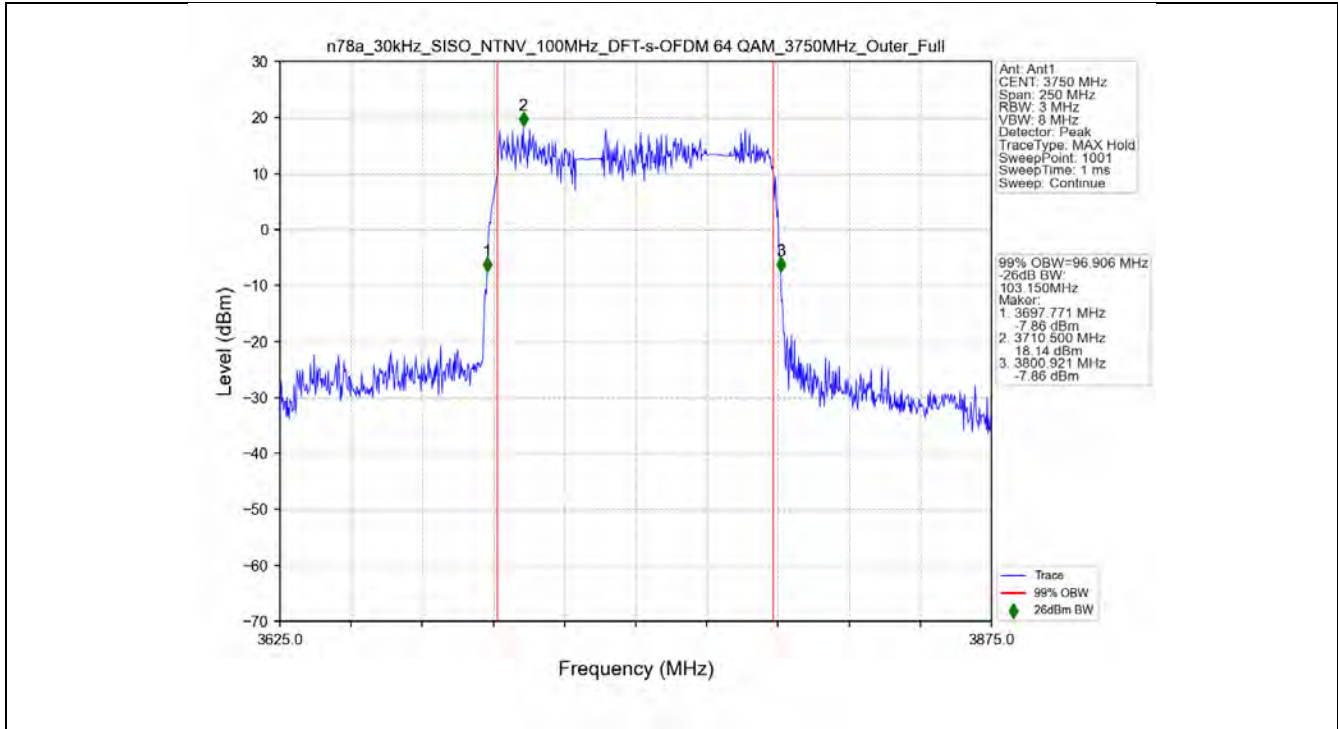


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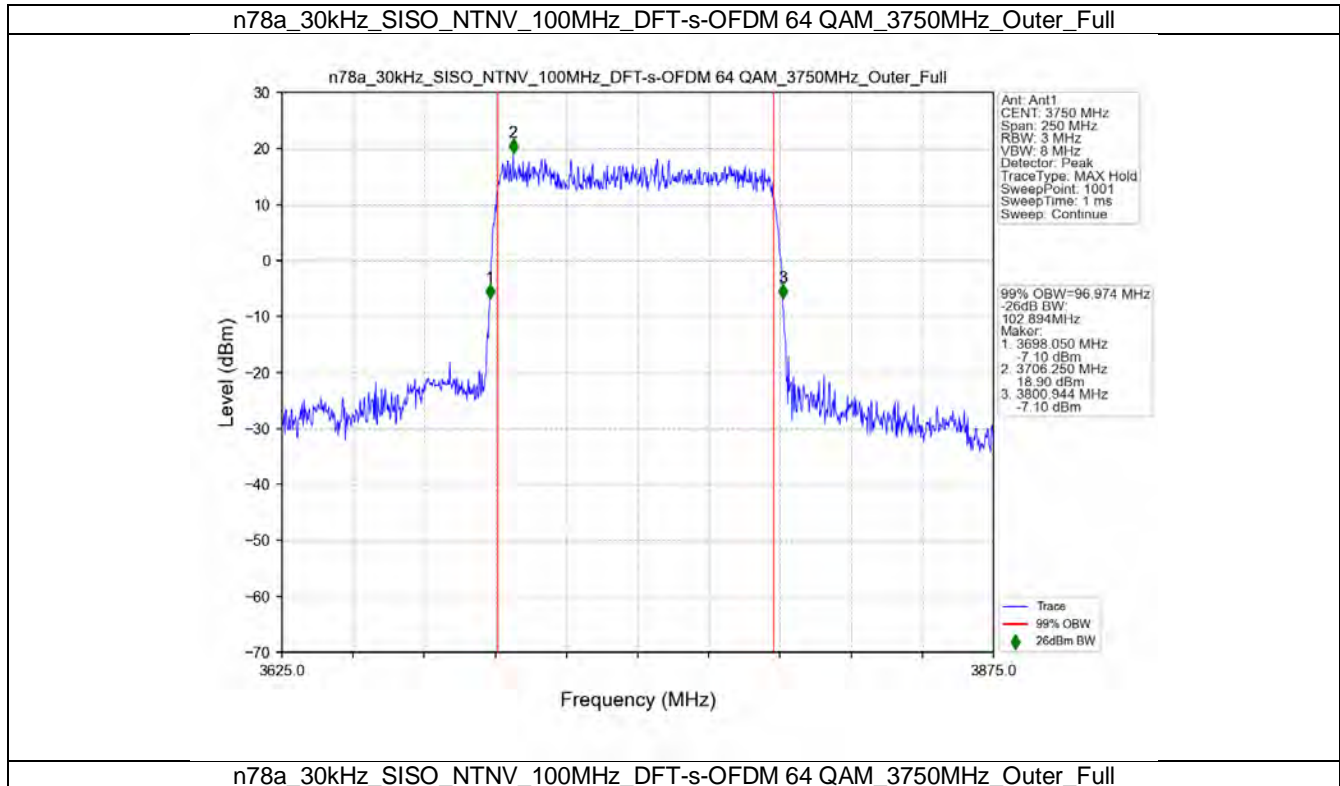


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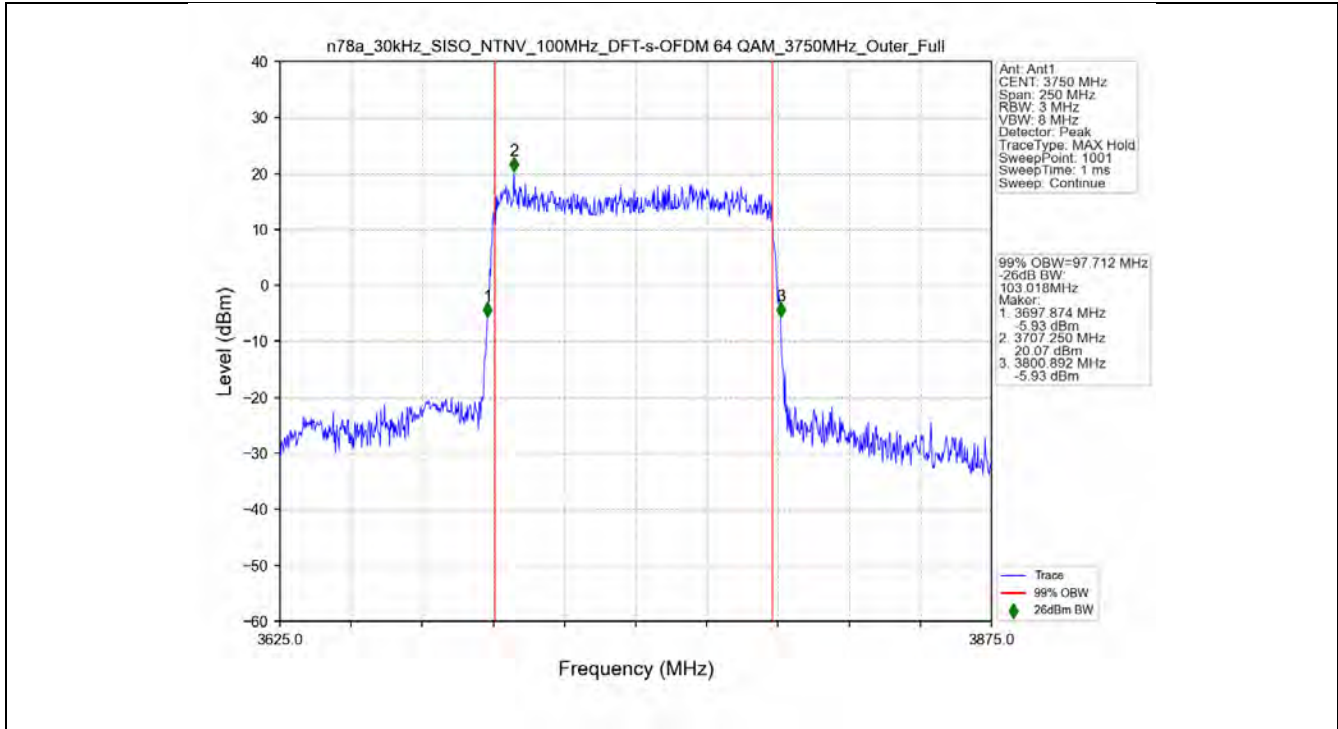


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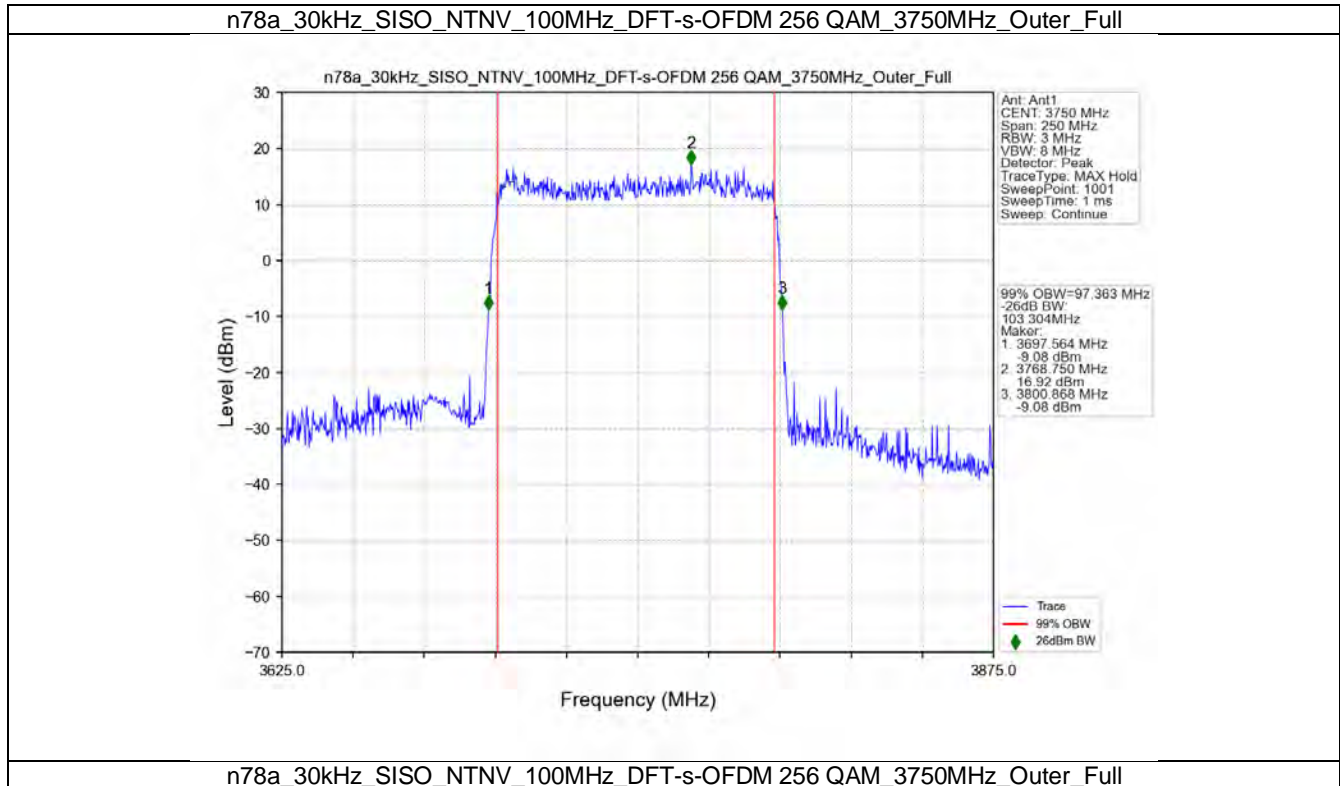


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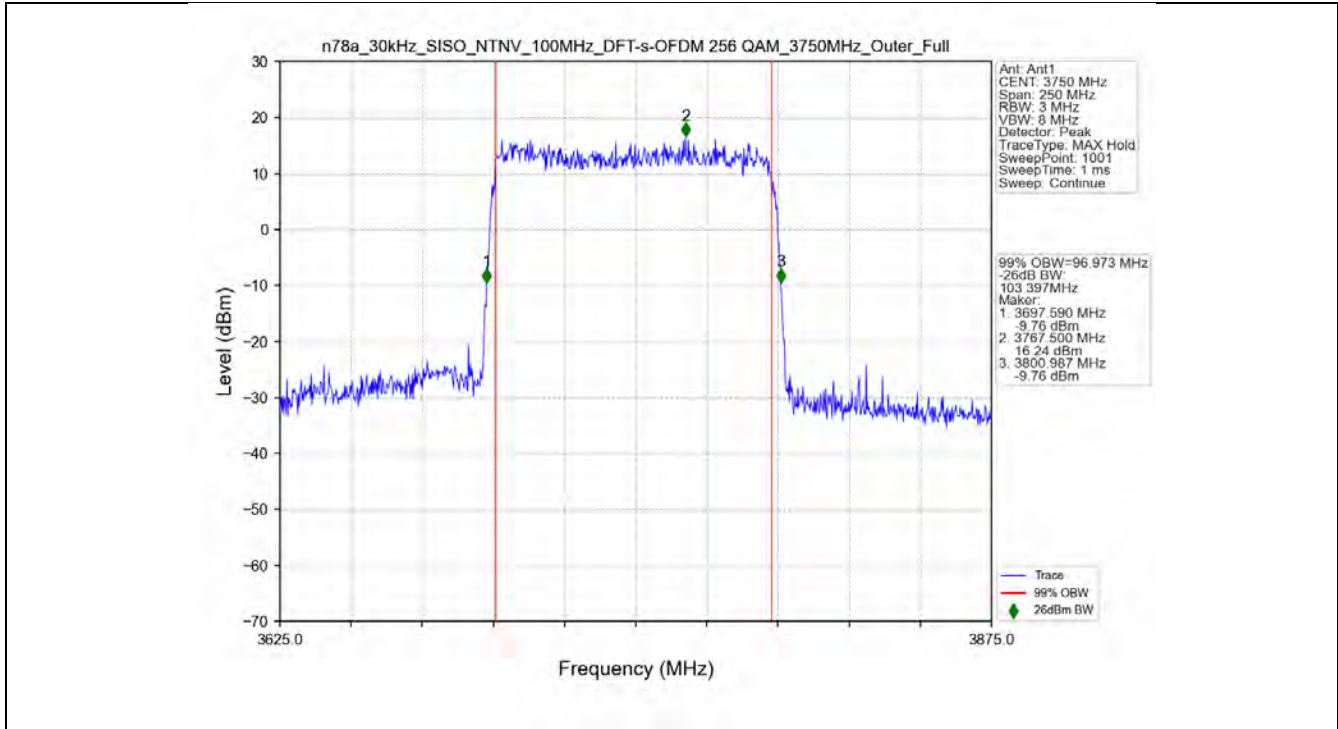


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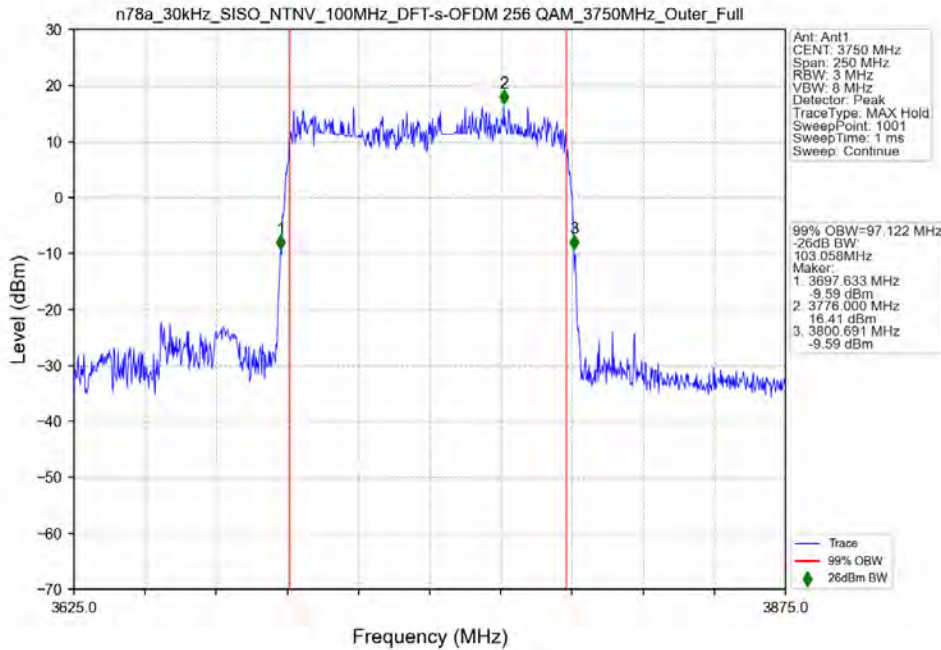
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n78a_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 256 QAM_3750MHz_Outer_Full



n78a_30kHz_SISO_NTNV_100MHz_CP-OFDM QPSK_3750MHz_Outer_Full



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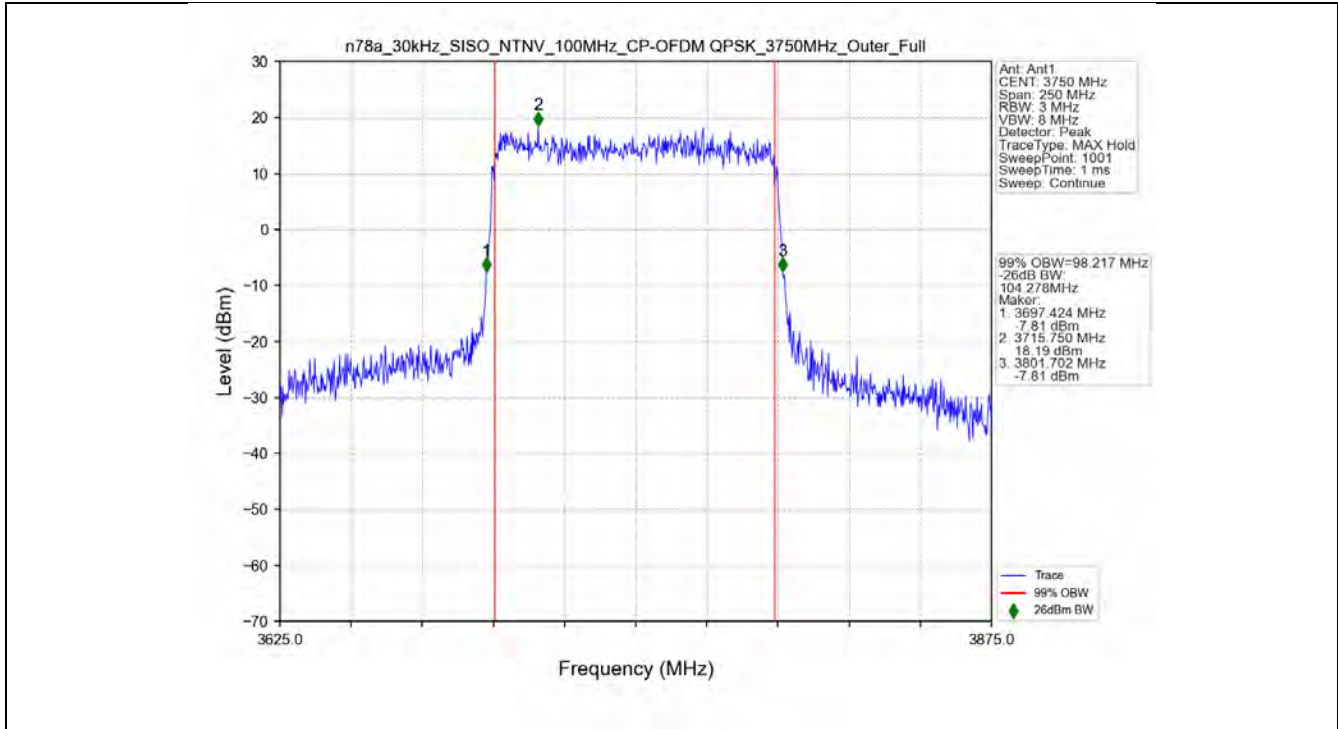


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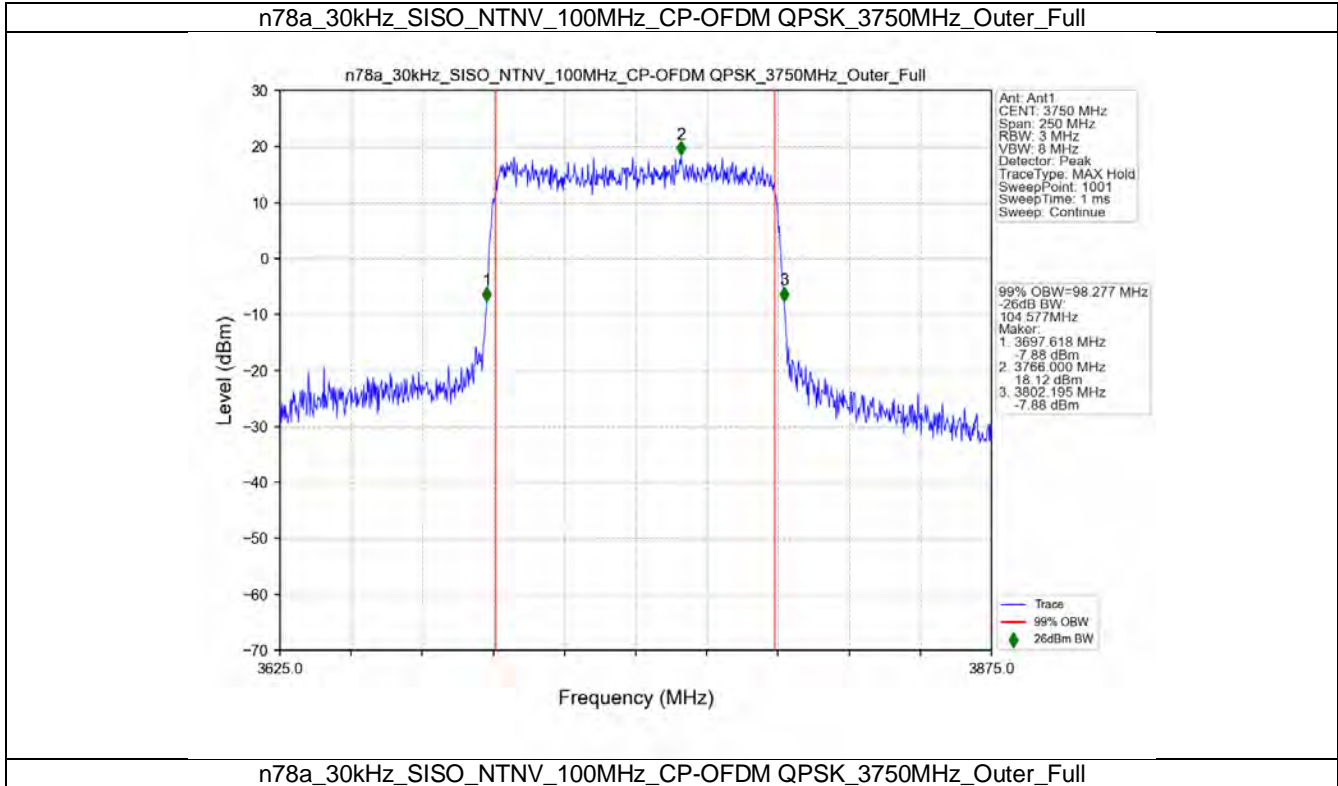


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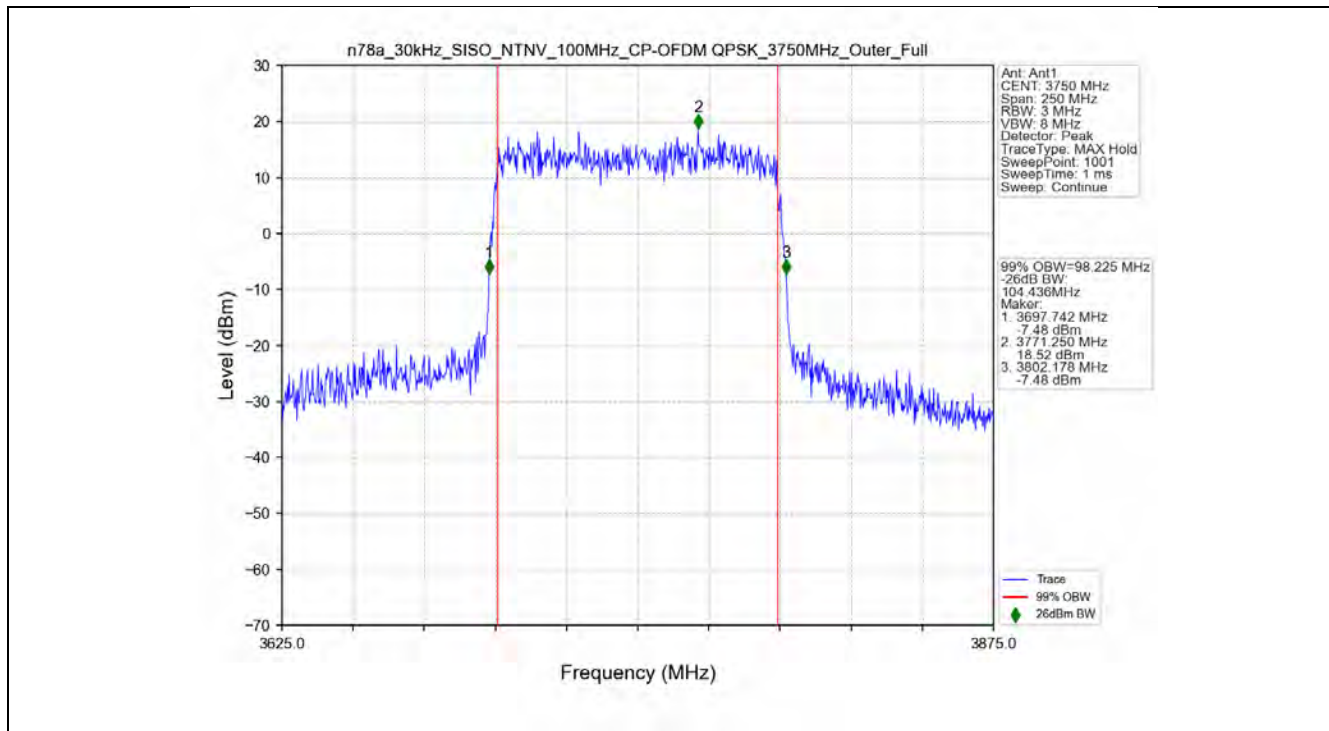
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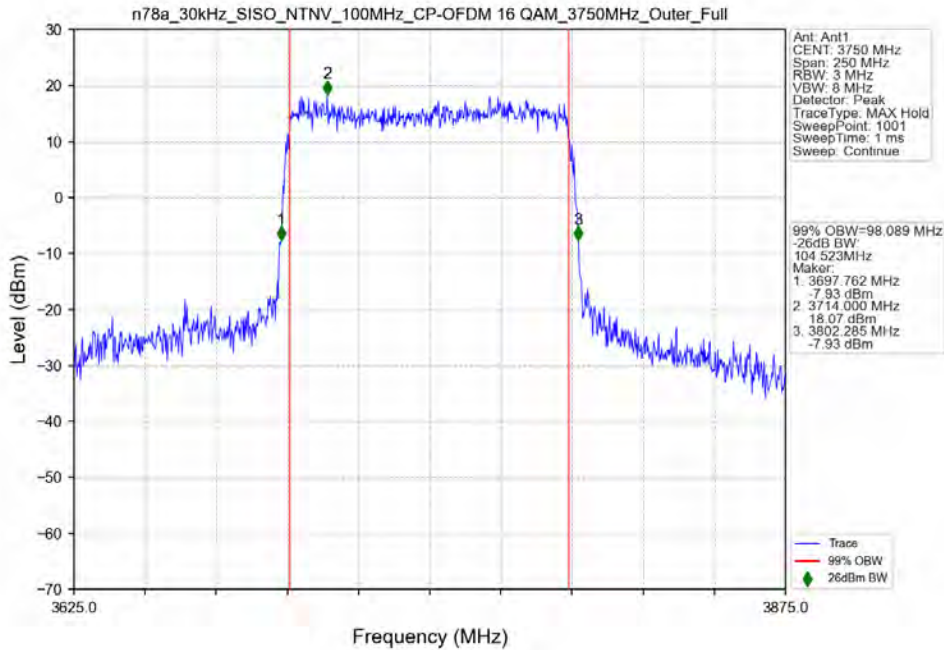
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n78a_30kHz_SISO_NTNV_100MHz_CP-OFDM 16 QAM_3750MHz_Outer_Full



n78a_30kHz_SISO_NTNV_100MHz_CP-OFDM 16 QAM_3750MHz_Outer_Full



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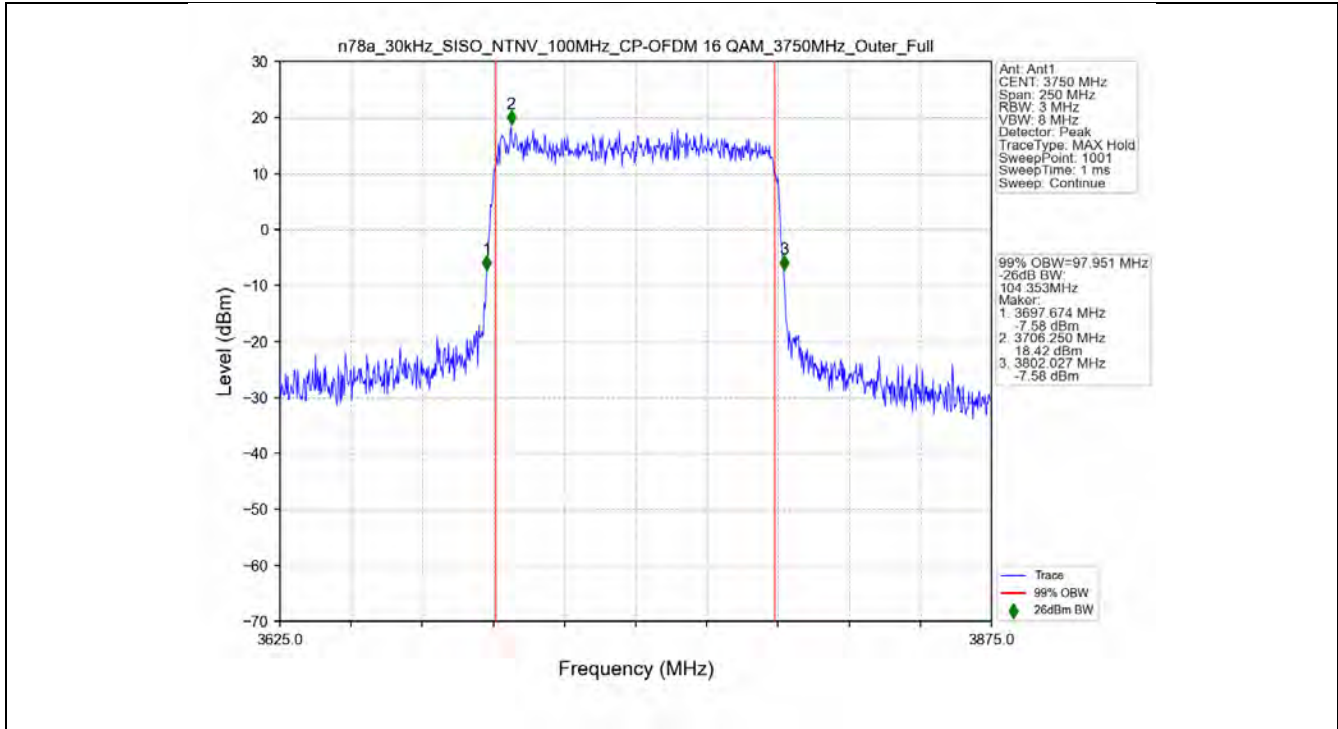


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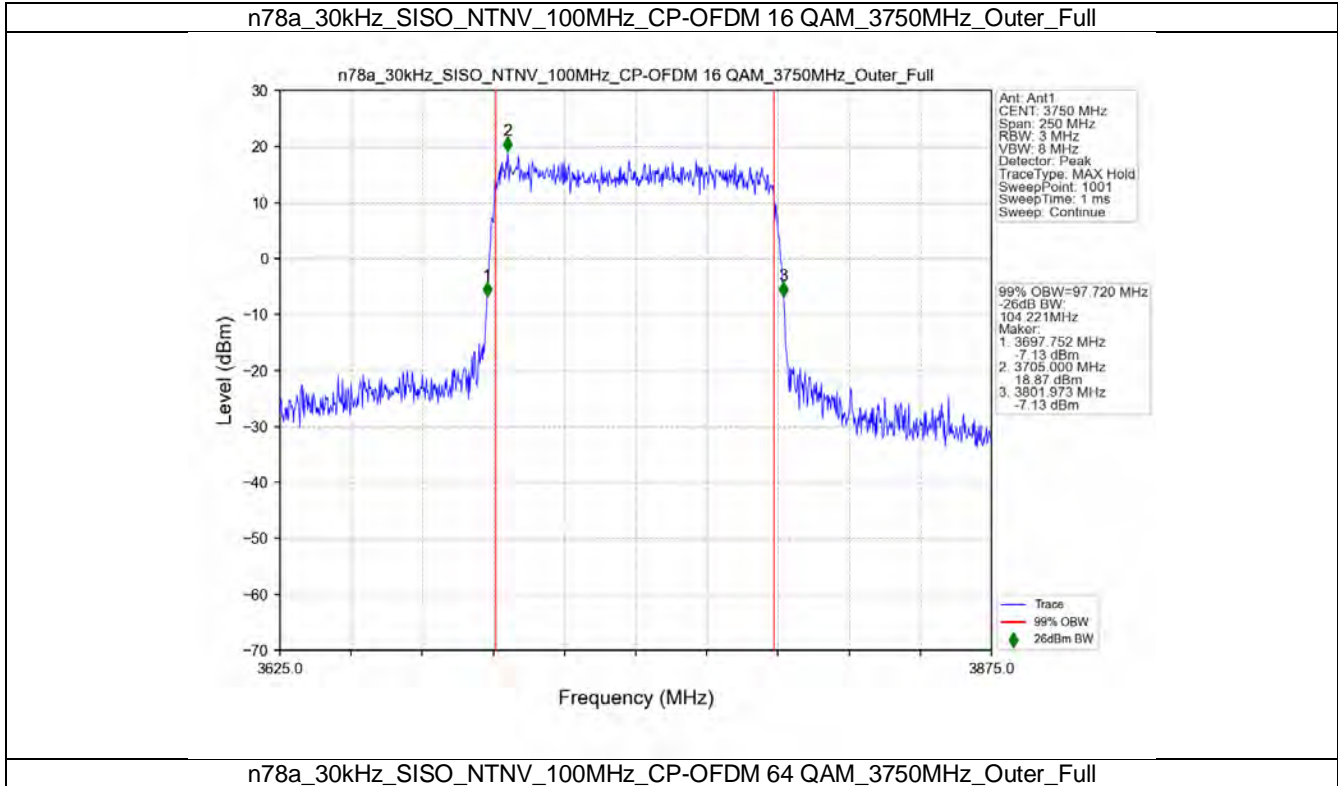


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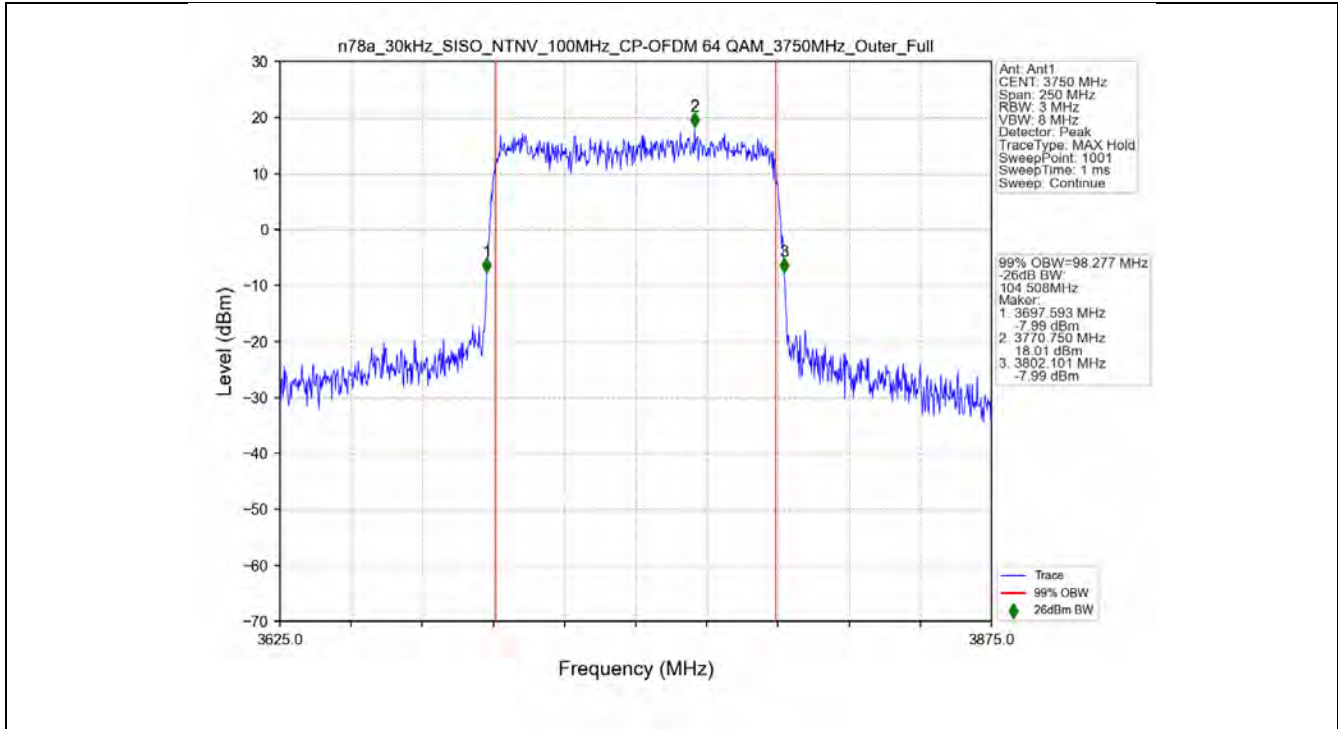


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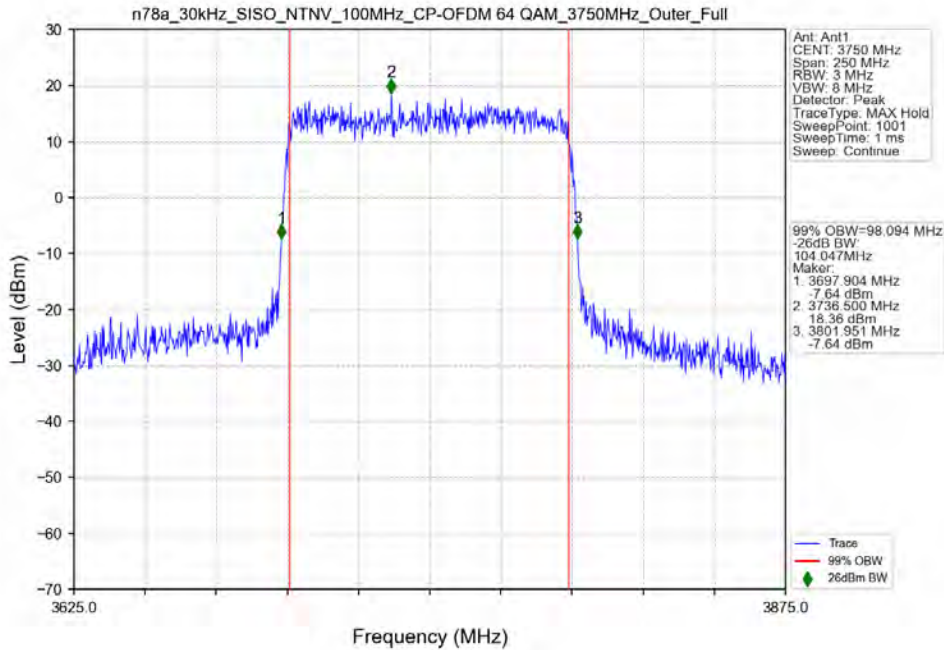
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n78a_30kHz_SISO_NTNV_100MHz_CP-OFDM 64 QAM_3750MHz_Outer_Full



n78a_30kHz_SISO_NTNV_100MHz_CP-OFDM 64 QAM_3750MHz_Outer_Full



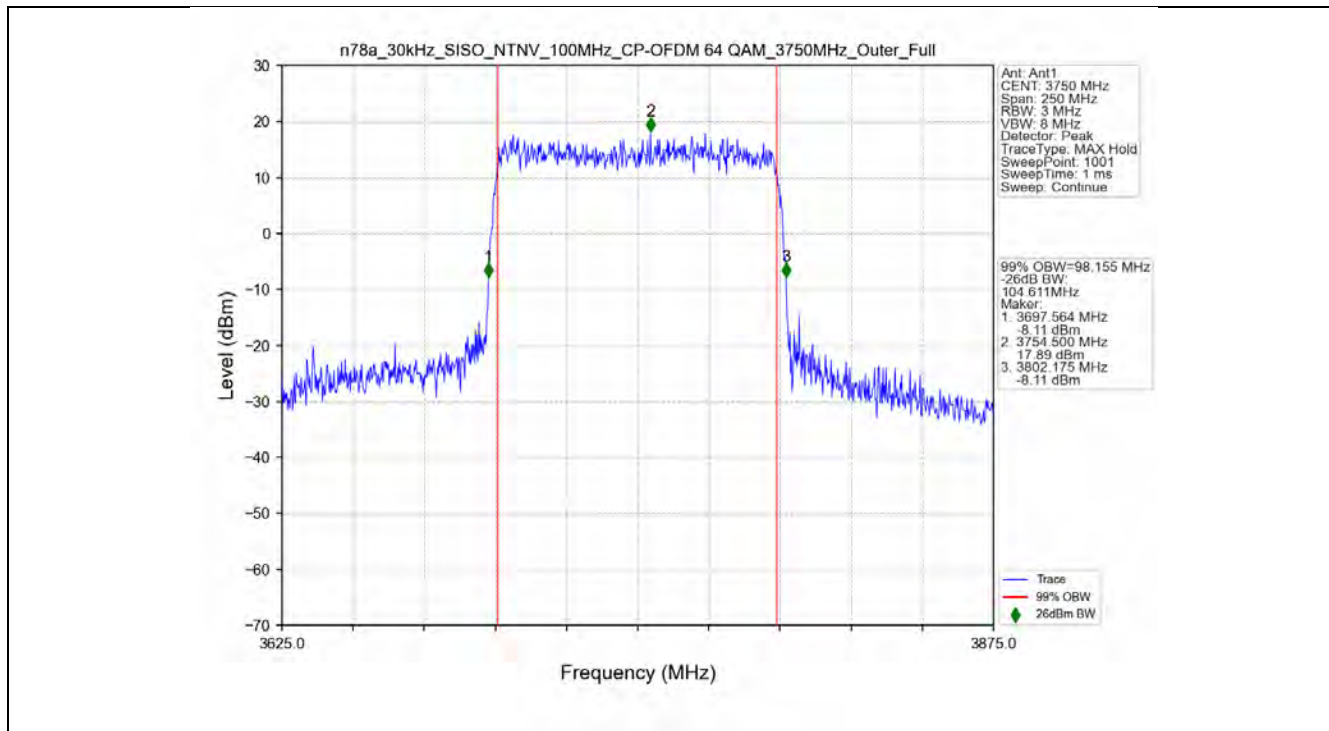
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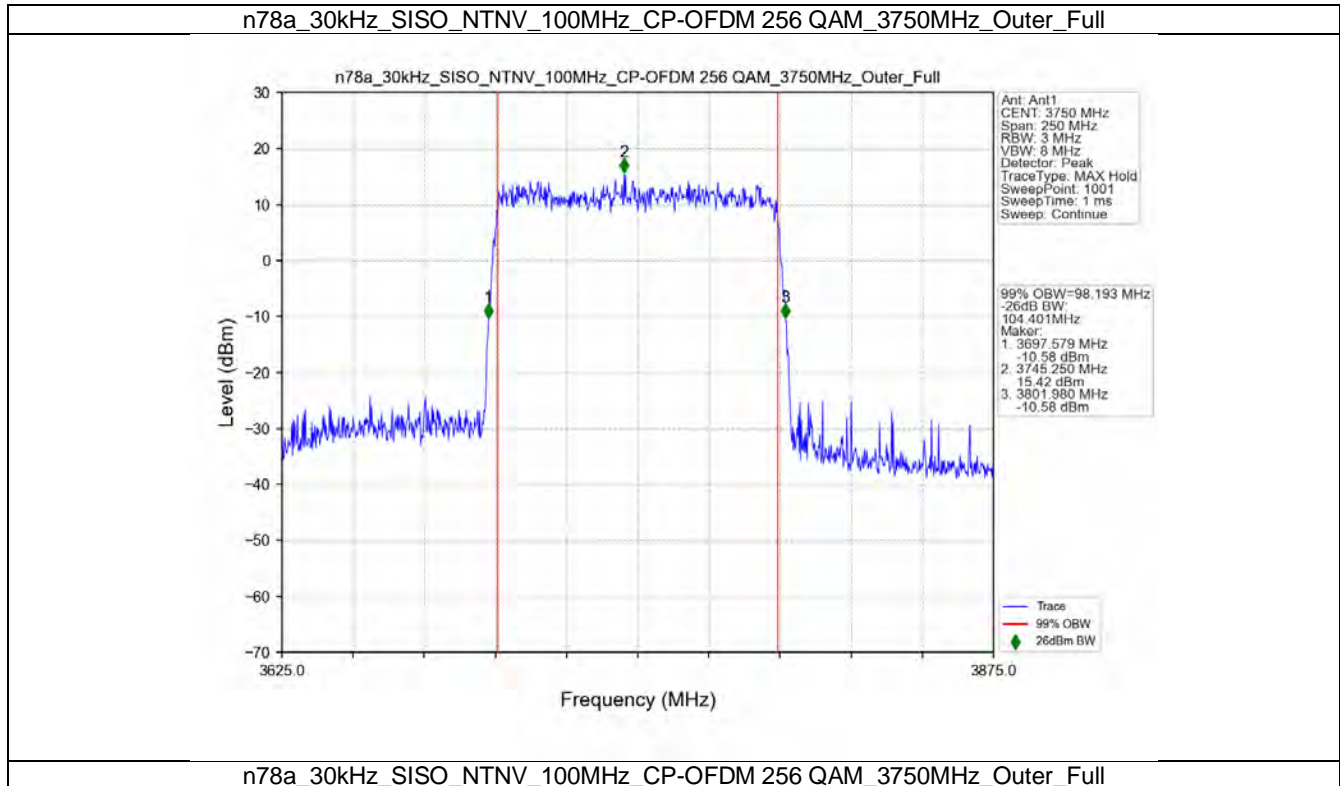


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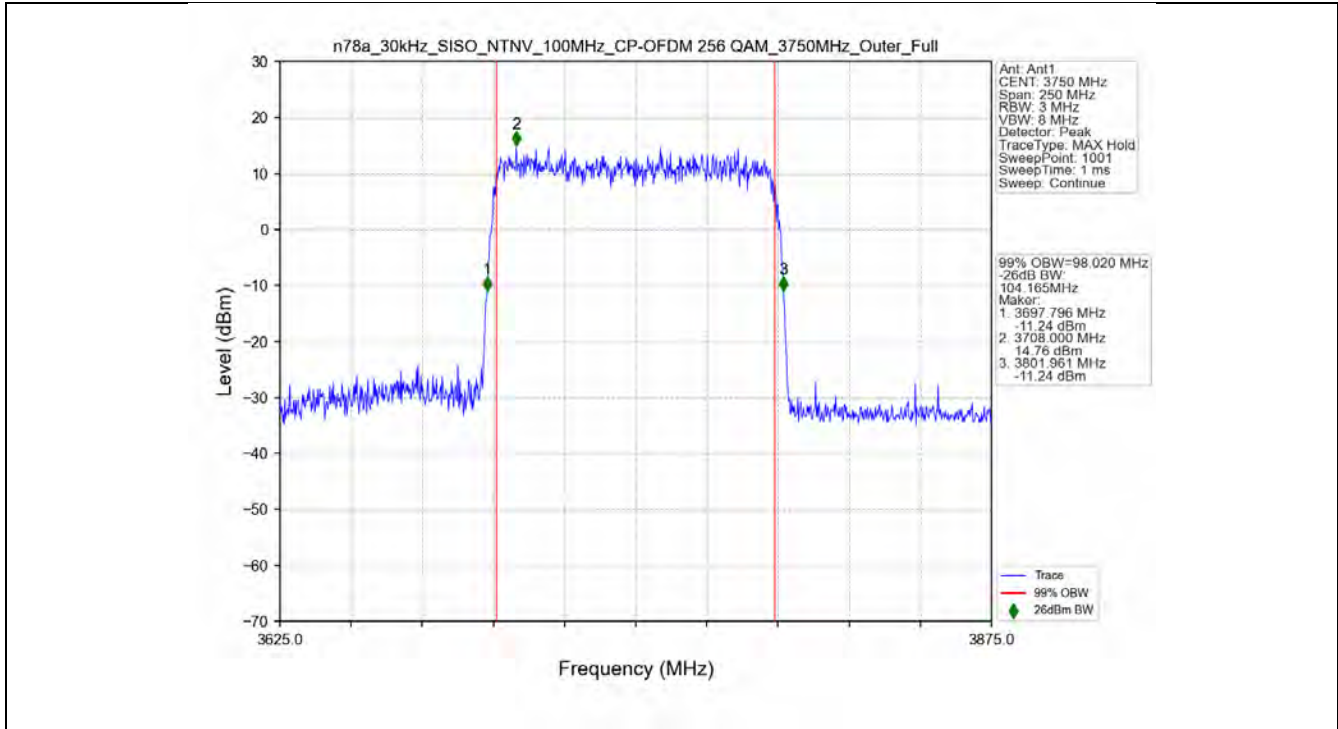


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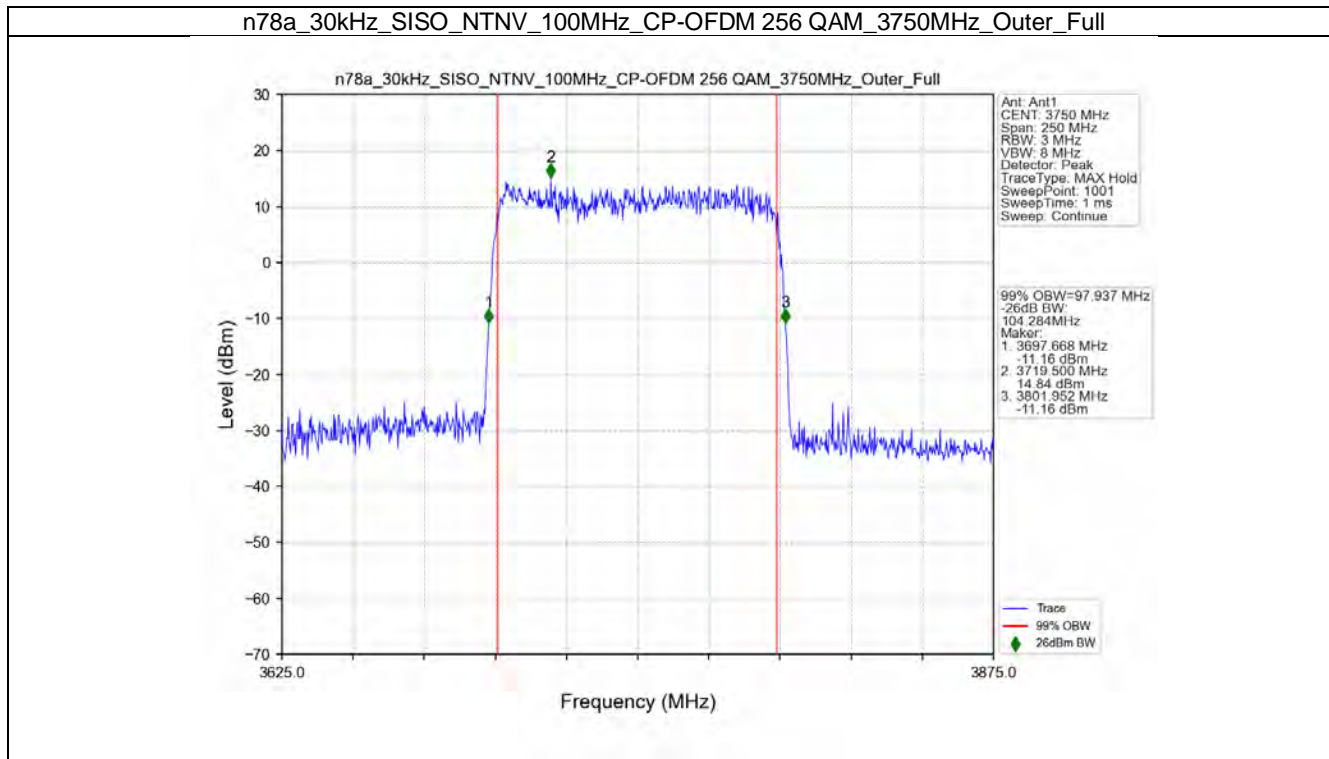
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4. Peak-Average Ratio

4.1 30k_SISO_20MHz_NTNV

4.1.1 Test Result

5G NR n78a SCS=30kHz SISO 20MHz NTNv							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)			Limit	Verdict
			Ant1	Ant4	Sum		
DFT-s-OFDM PI/2 BPSK	3710.01	Outer_Full	8.19	/	/	<=13	Pass
	3750	Outer_Full	8.22	/	/	<=13	Pass
	3789.99	Outer_Full	7.89	/	/	<=13	Pass
DFT-s-OFDM QPSK	3710.01	Outer_Full	9.65	/	/	<=13	Pass
	3750	Outer_Full	9.00	/	/	<=13	Pass
	3789.99	Outer_Full	9.03	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3710.01	Outer_Full	9.20	/	/	<=13	Pass
	3750	Outer_Full	10.42	/	/	<=13	Pass
	3789.99	Outer_Full	9.60	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3710.01	Outer_Full	10.69	/	/	<=13	Pass
	3750	Outer_Full	10.46	/	/	<=13	Pass
	3789.99	Outer_Full	9.85	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3710.01	Outer_Full	9.85	/	/	<=13	Pass
	3750	Outer_Full	10.02	/	/	<=13	Pass
	3789.99	Outer_Full	11.21	/	/	<=13	Pass
CP-OFDM QPSK	3710.01	Outer_Full	10.38	/	/	<=13	Pass
	3750	Outer_Full	10.87	/	/	<=13	Pass
	3789.99	Outer_Full	10.92	/	/	<=13	Pass
CP-OFDM 16 QAM	3710.01	Outer_Full	10.33	/	/	<=13	Pass
	3750	Outer_Full	10.55	/	/	<=13	Pass
	3789.99	Outer_Full	11.62	/	/	<=13	Pass
CP-OFDM 64 QAM	3710.01	Outer_Full	11.18	/	/	<=13	Pass
	3750	Outer_Full	11.38	/	/	<=13	Pass
	3789.99	Outer_Full	10.93	/	/	<=13	Pass
CP-OFDM 256 QAM	3710.01	Outer_Full	11.85	/	/	<=13	Pass
	3750	Outer_Full	11.81	/	/	<=13	Pass
	3789.99	Outer_Full	11.68	/	/	<=13	Pass



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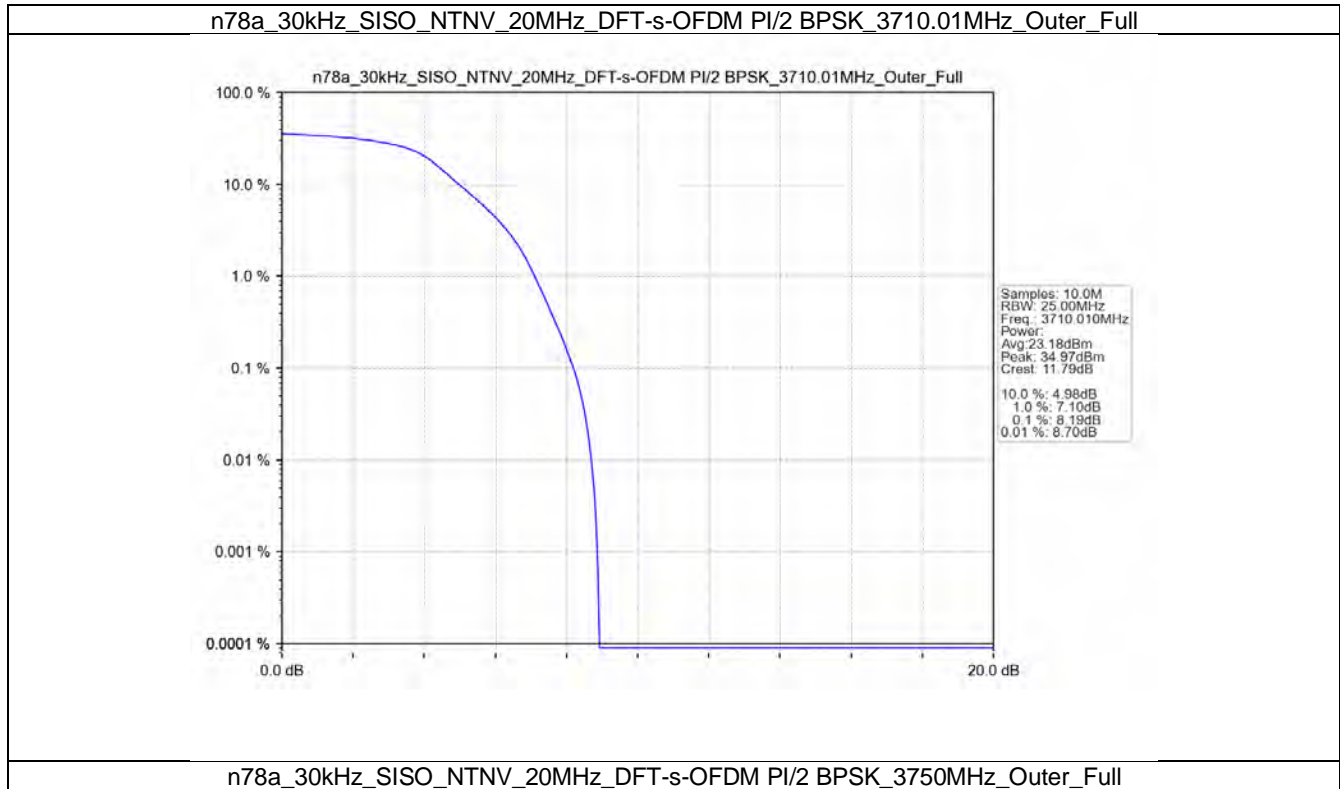
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4.1.2 Test Graph



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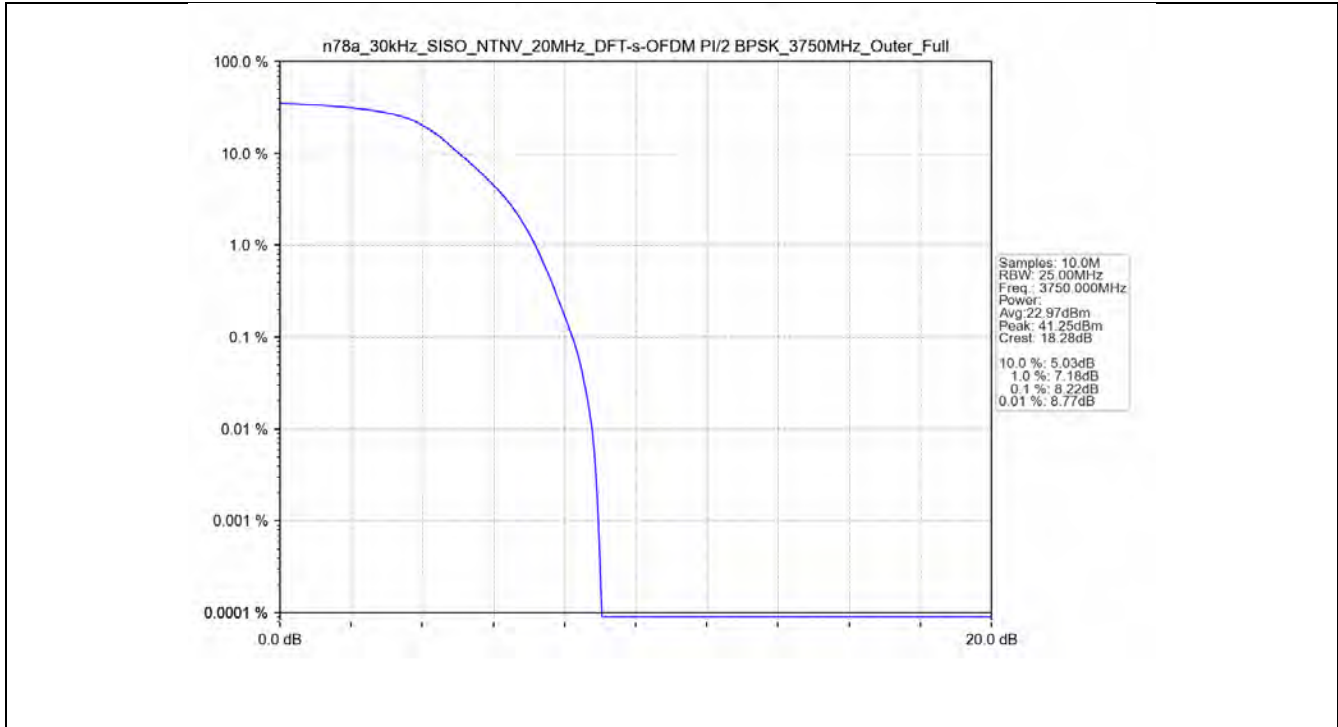


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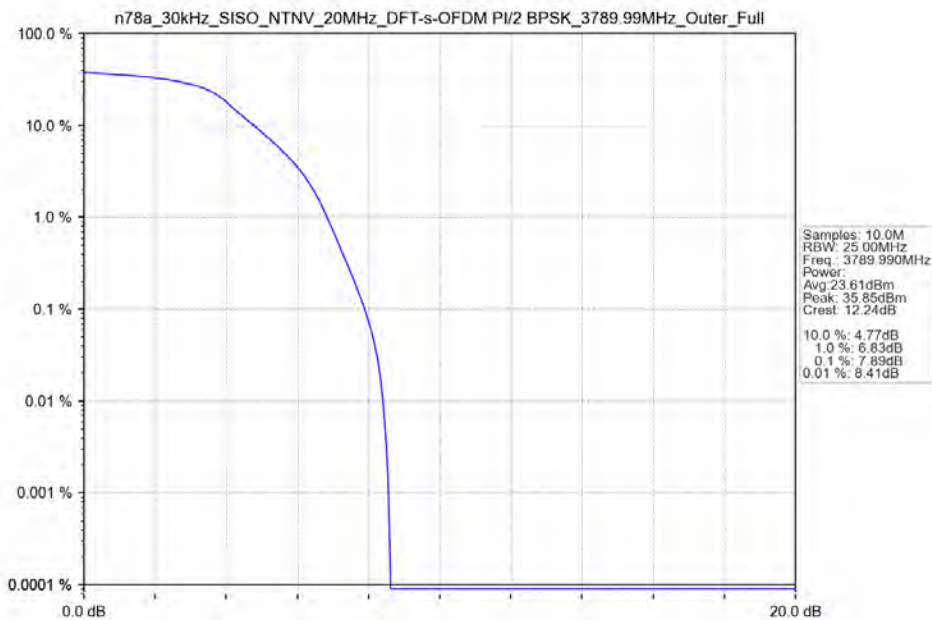
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n78a_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3789.99MHz_Outer_Full



n78a_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3710.01MHz_Outer_Full



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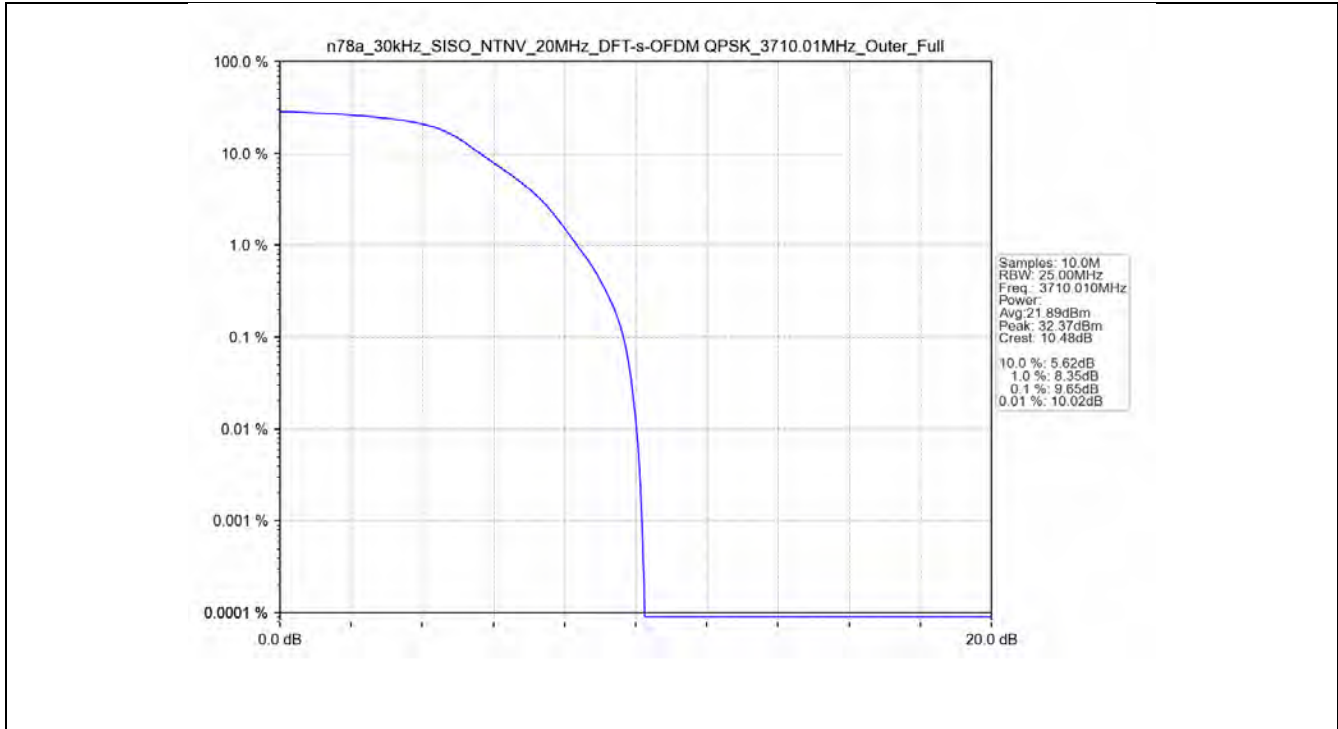


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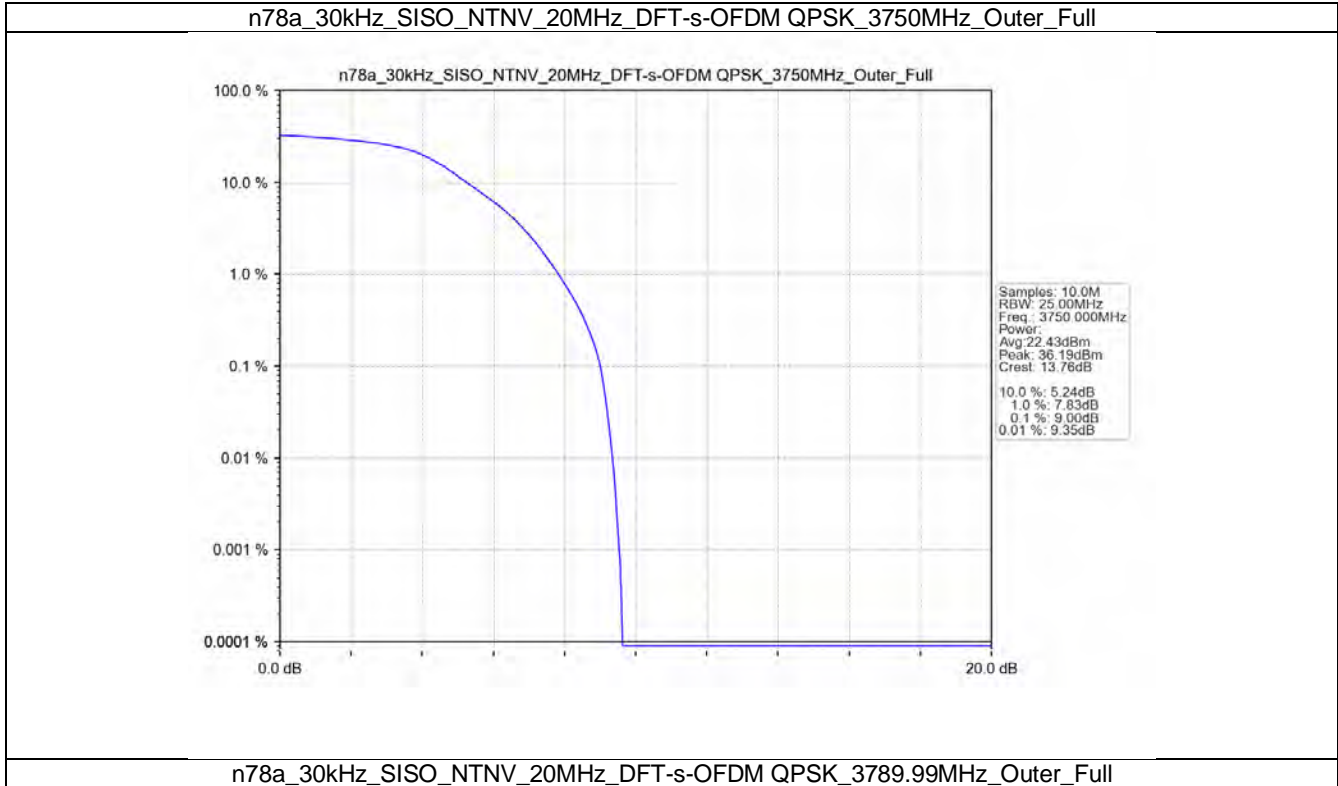


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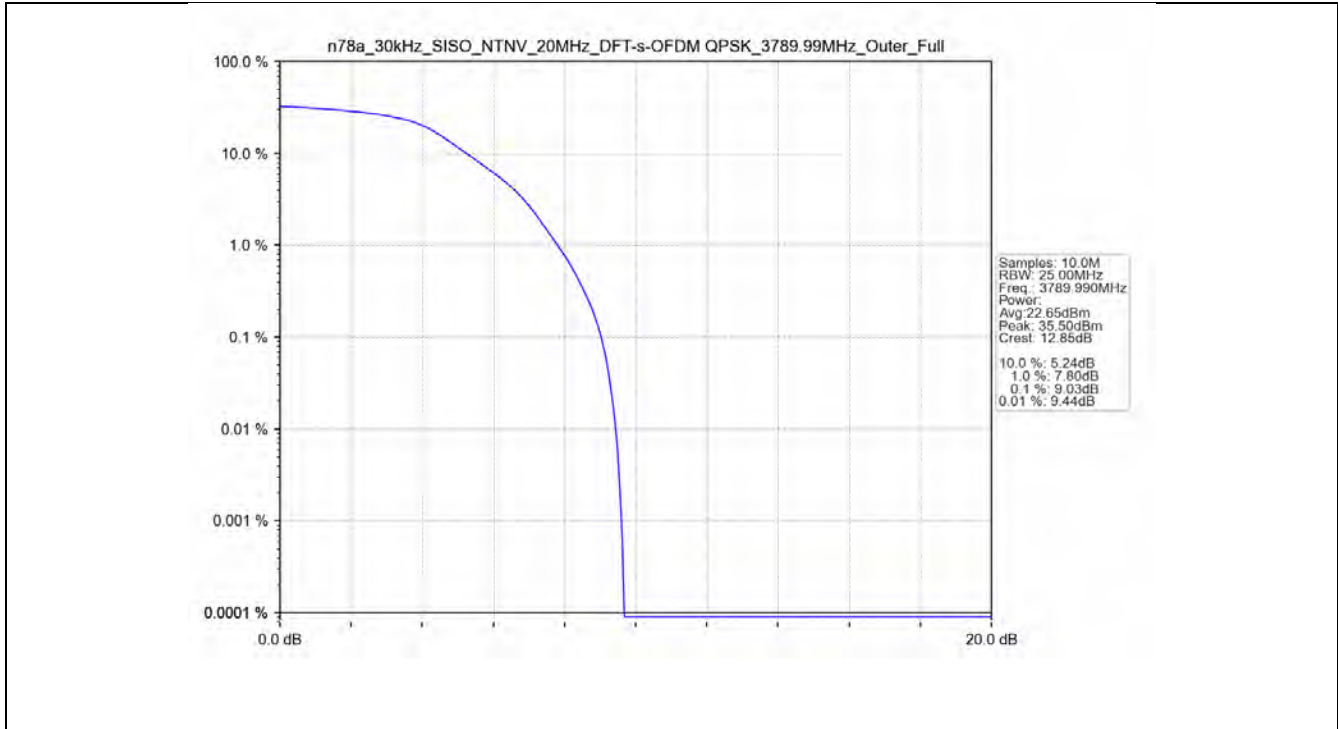


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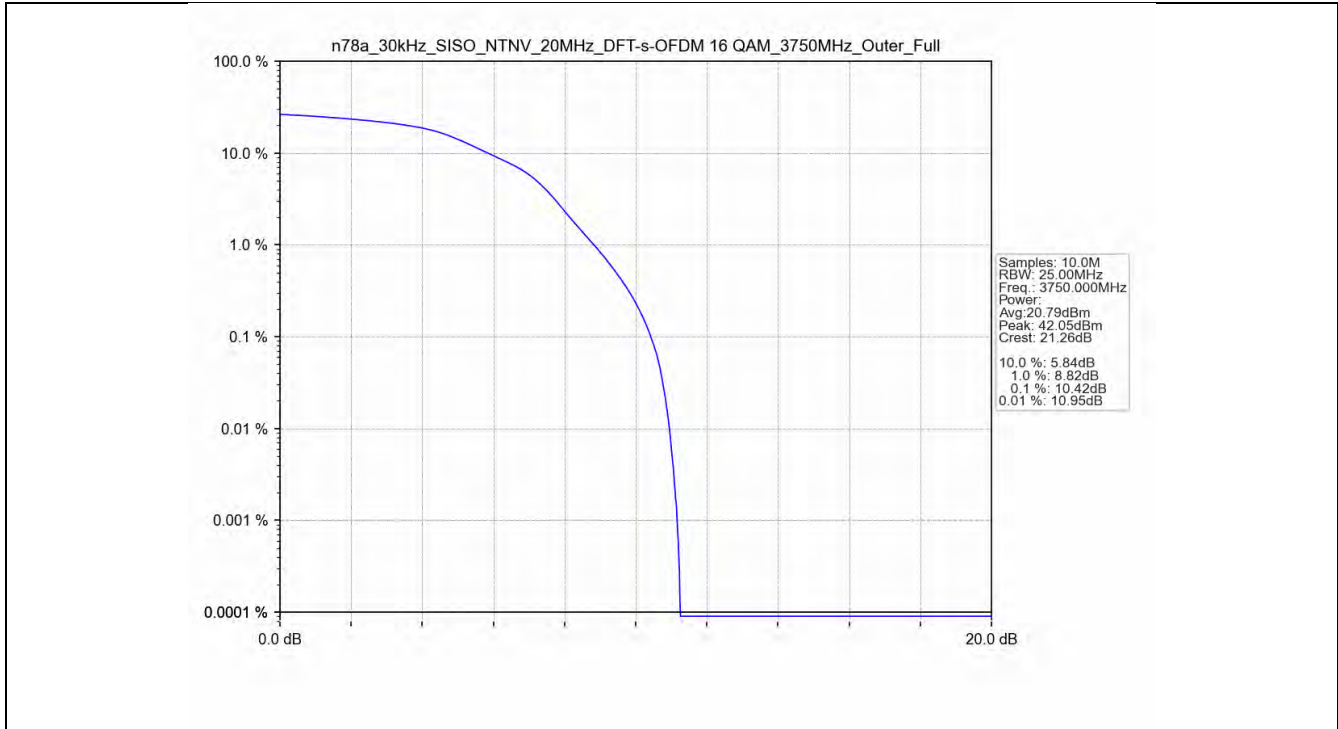


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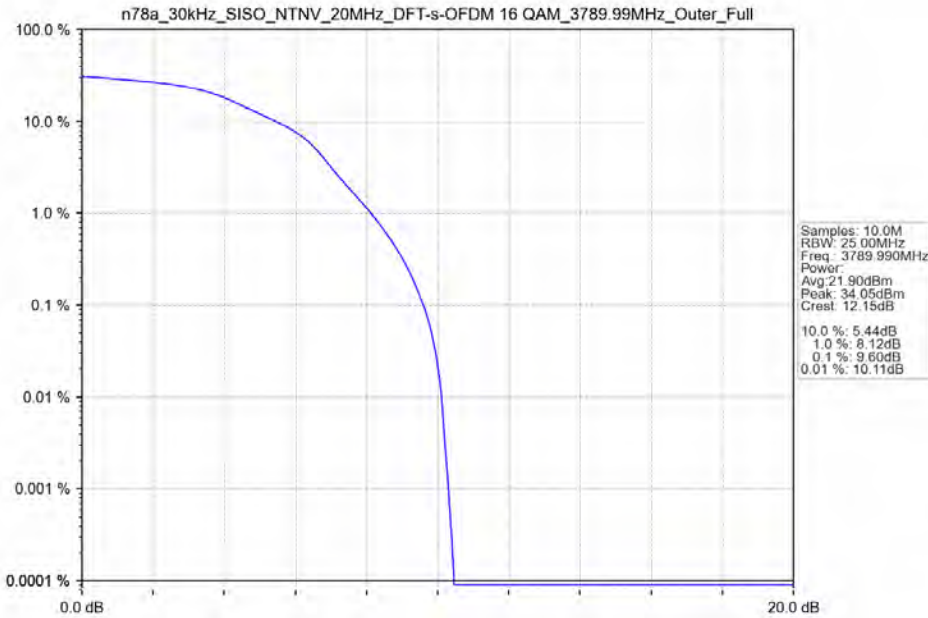
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n78a_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_3710.01MHz_Outer_Full



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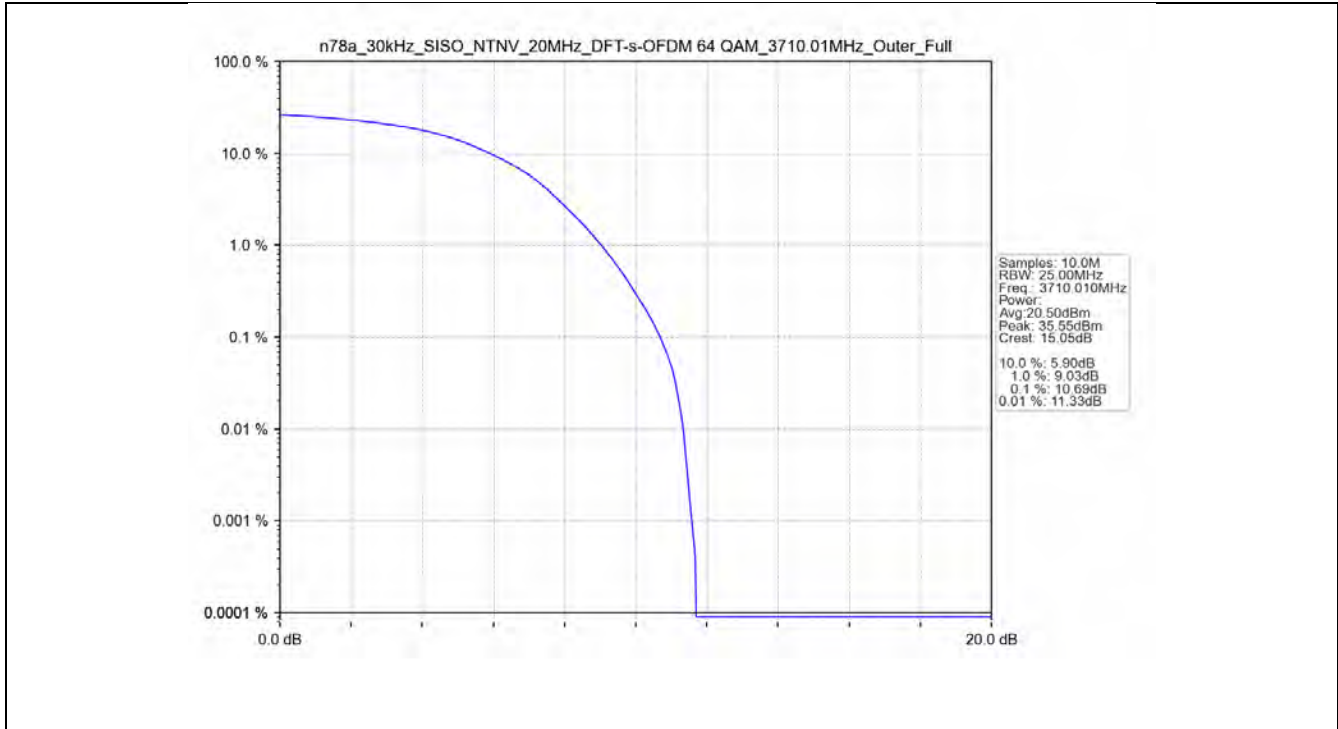


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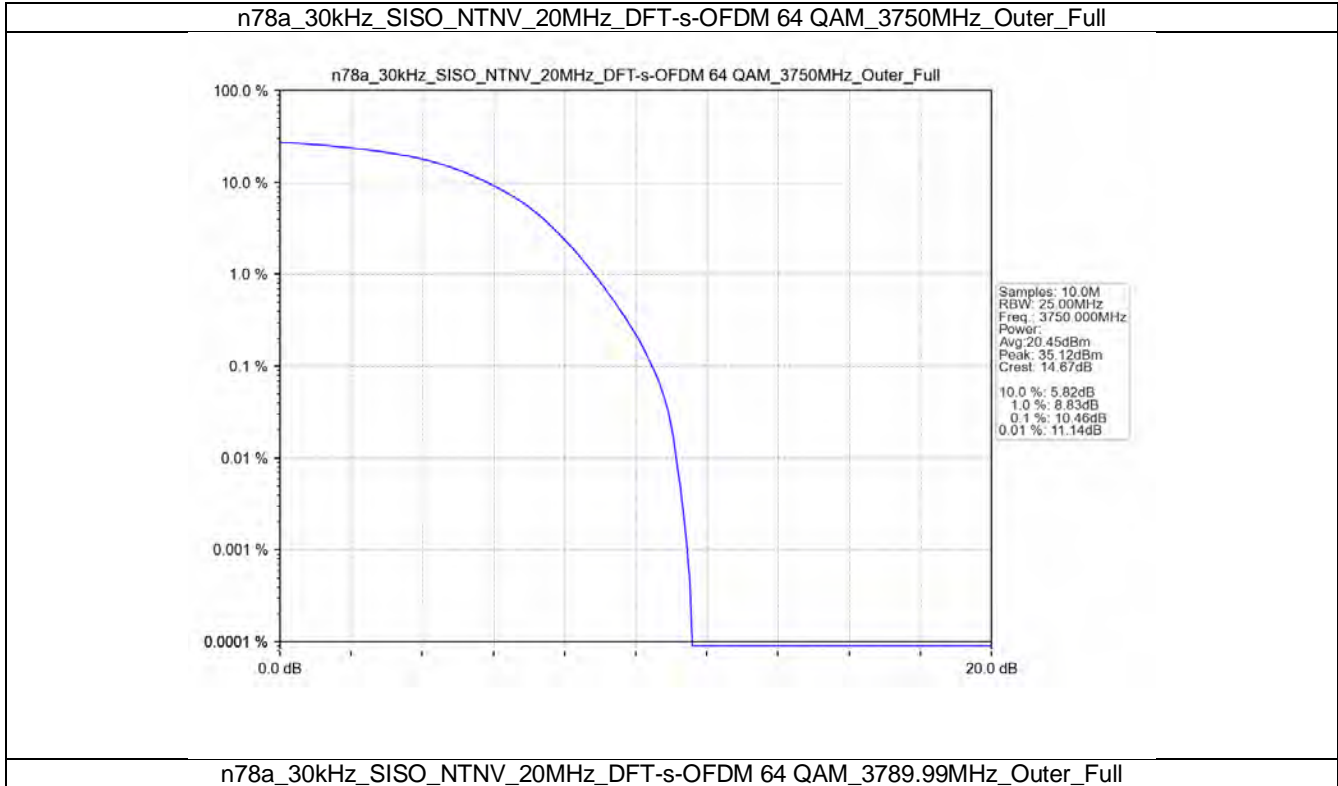


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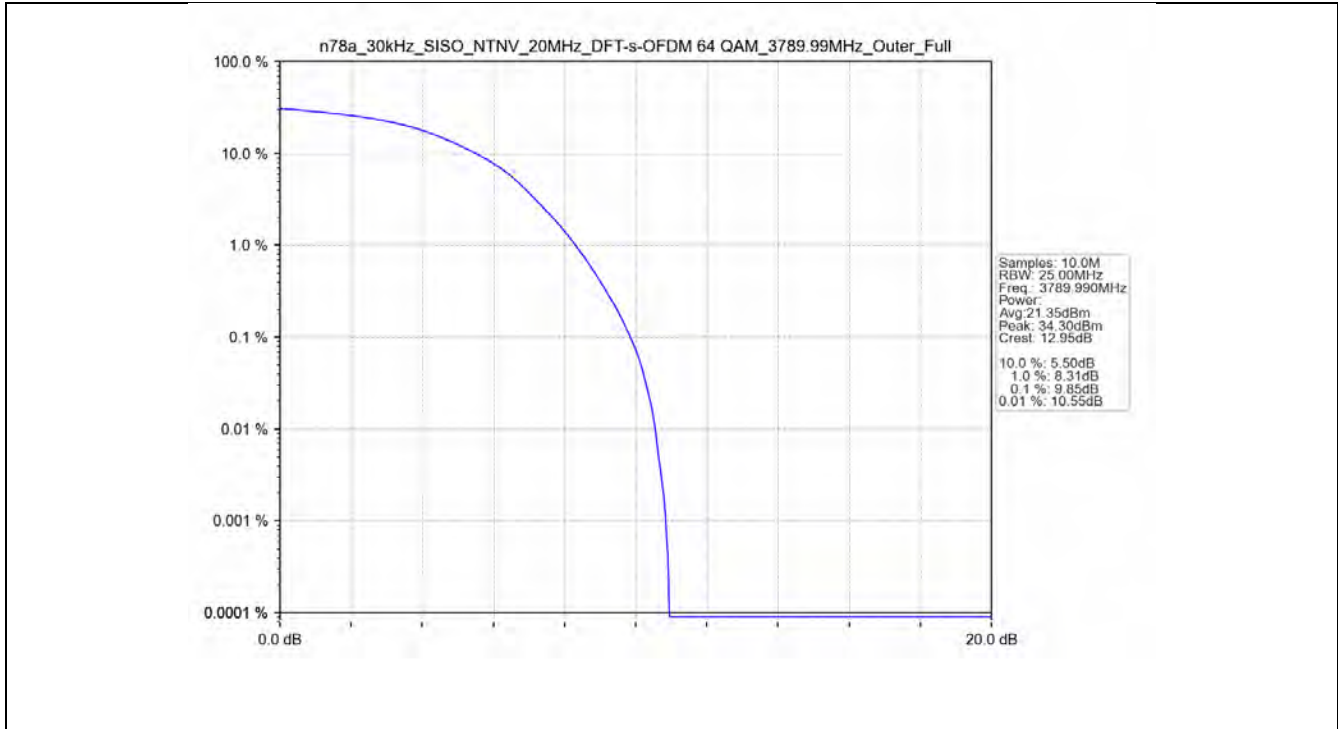


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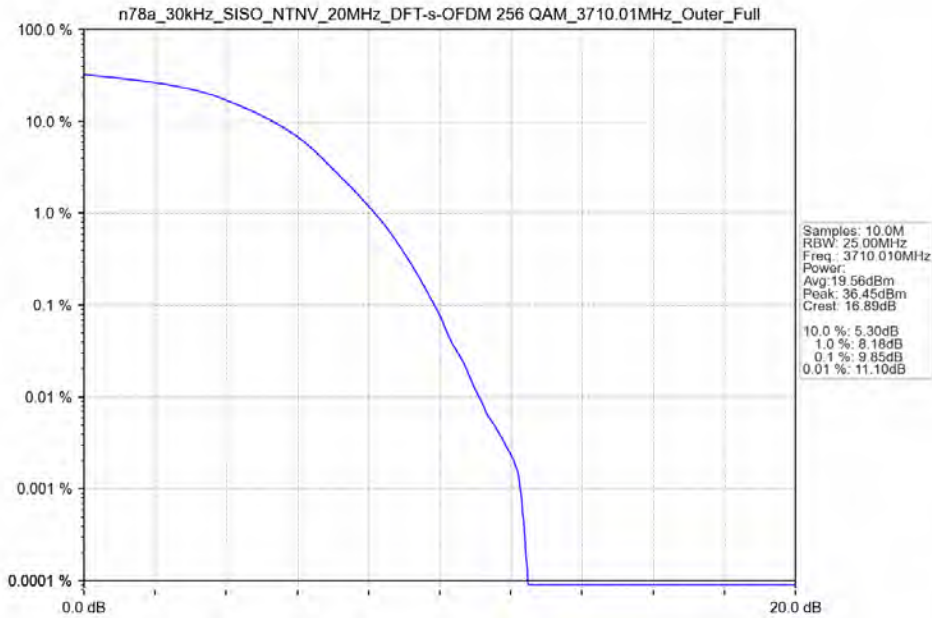
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n78a_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_3750MHz_Outer_Full



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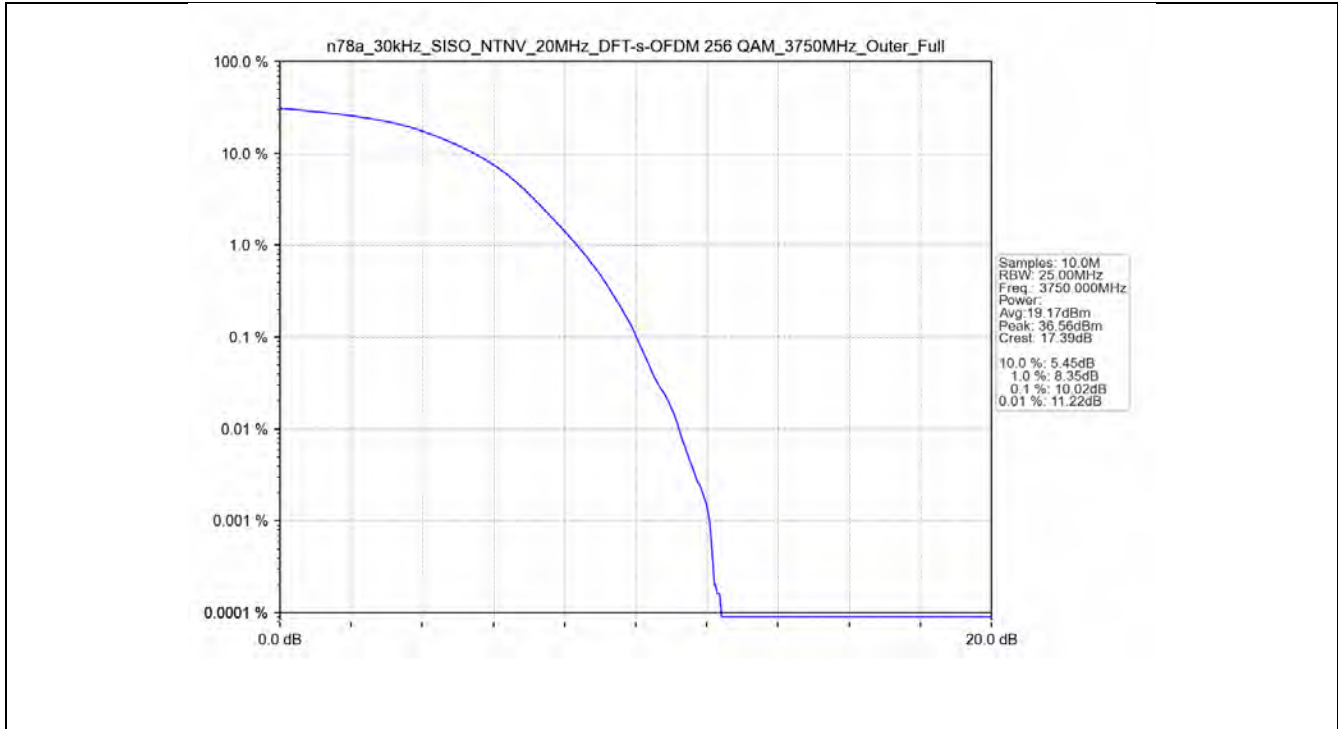


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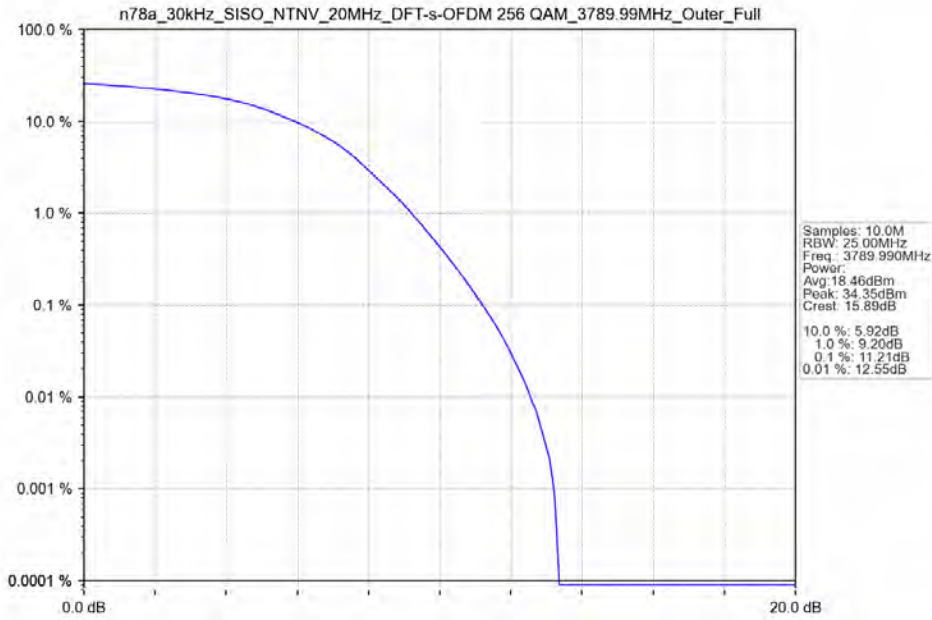
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n78a_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_3789.99MHz_Outer_Full



n78a_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3710.01MHz_Outer_Full



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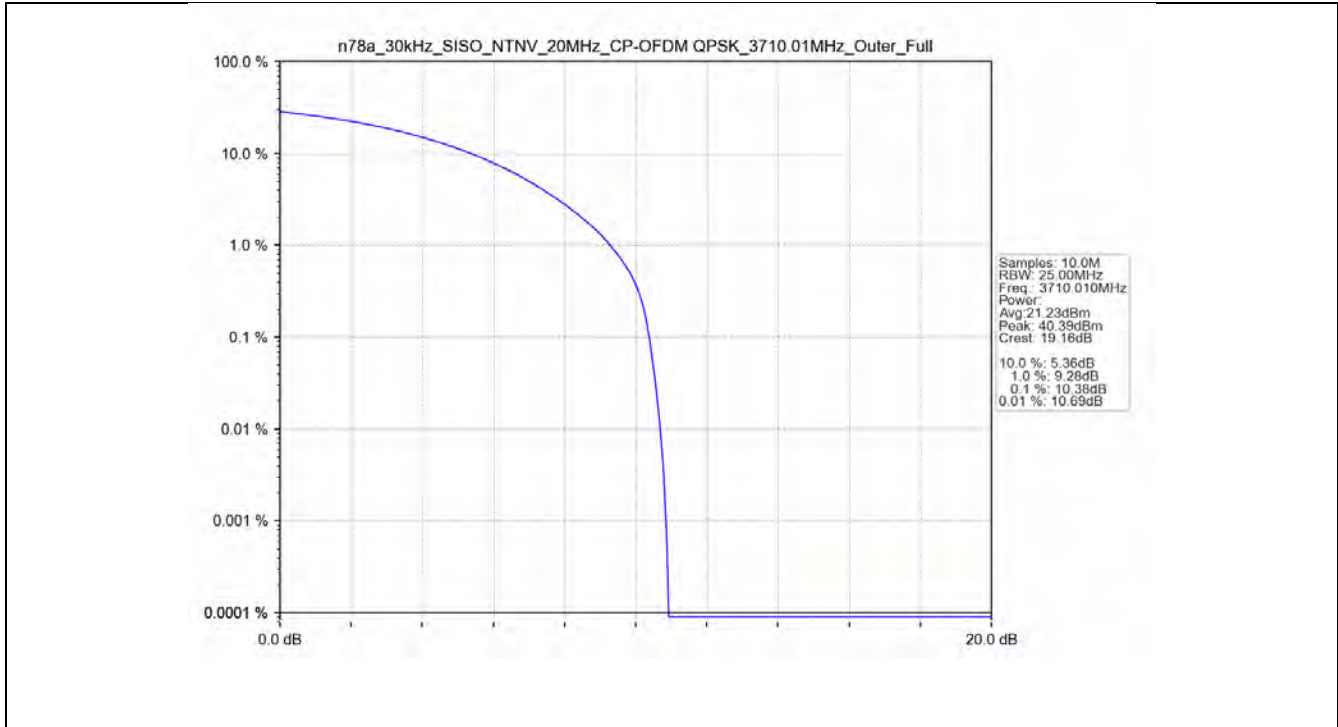


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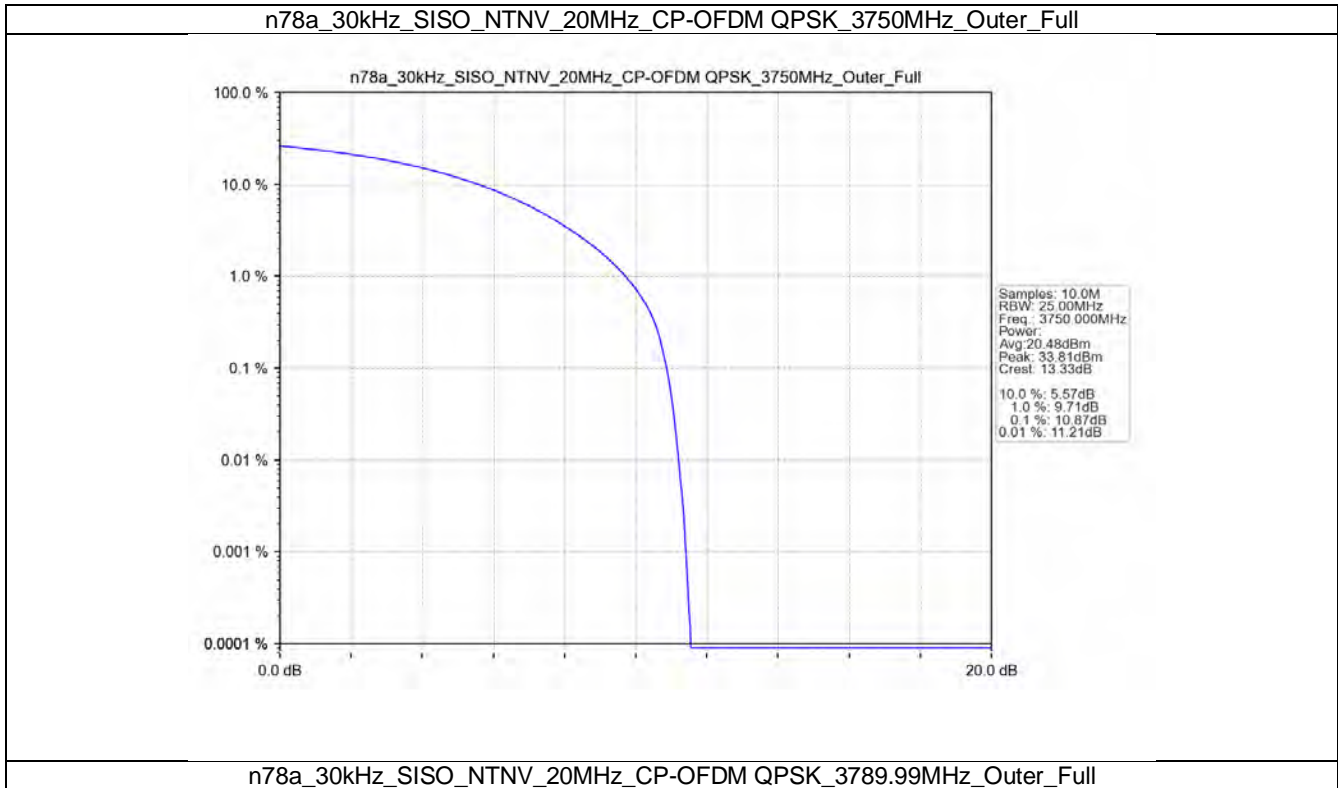


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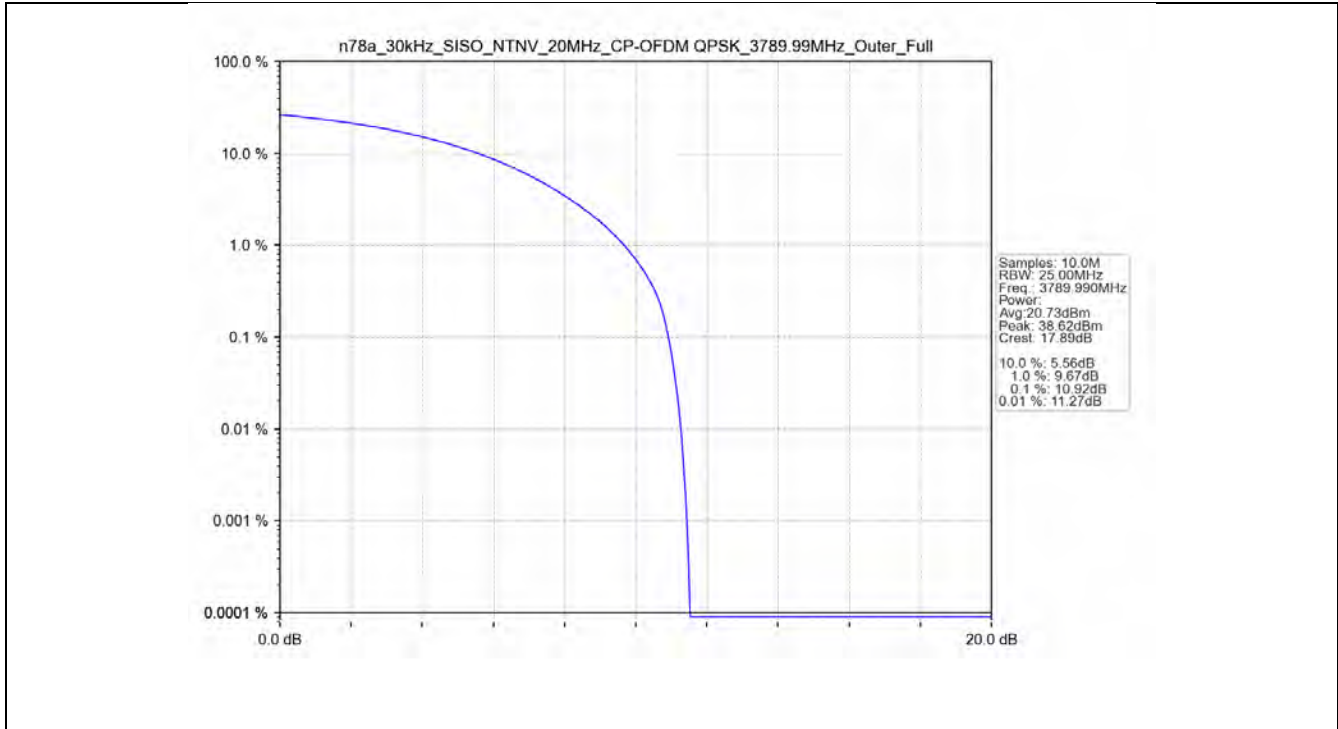


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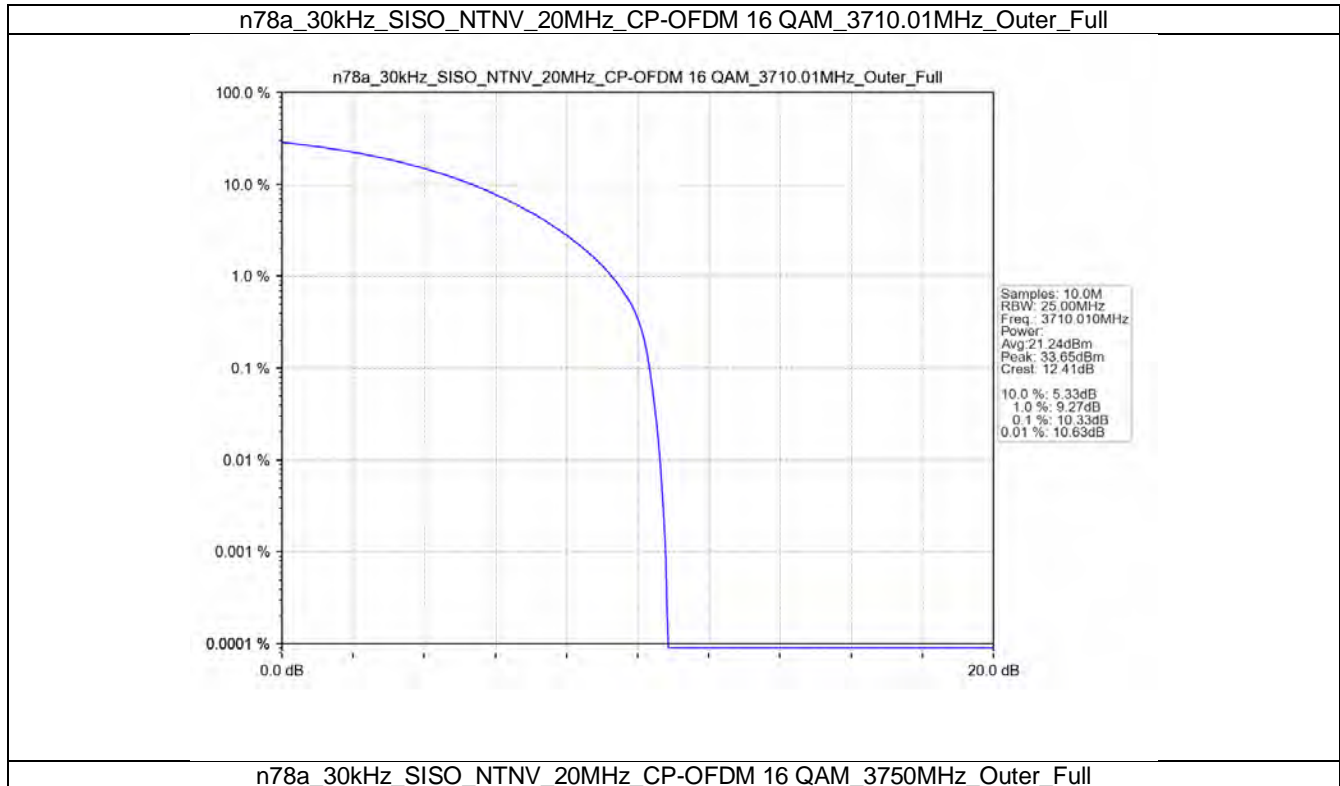


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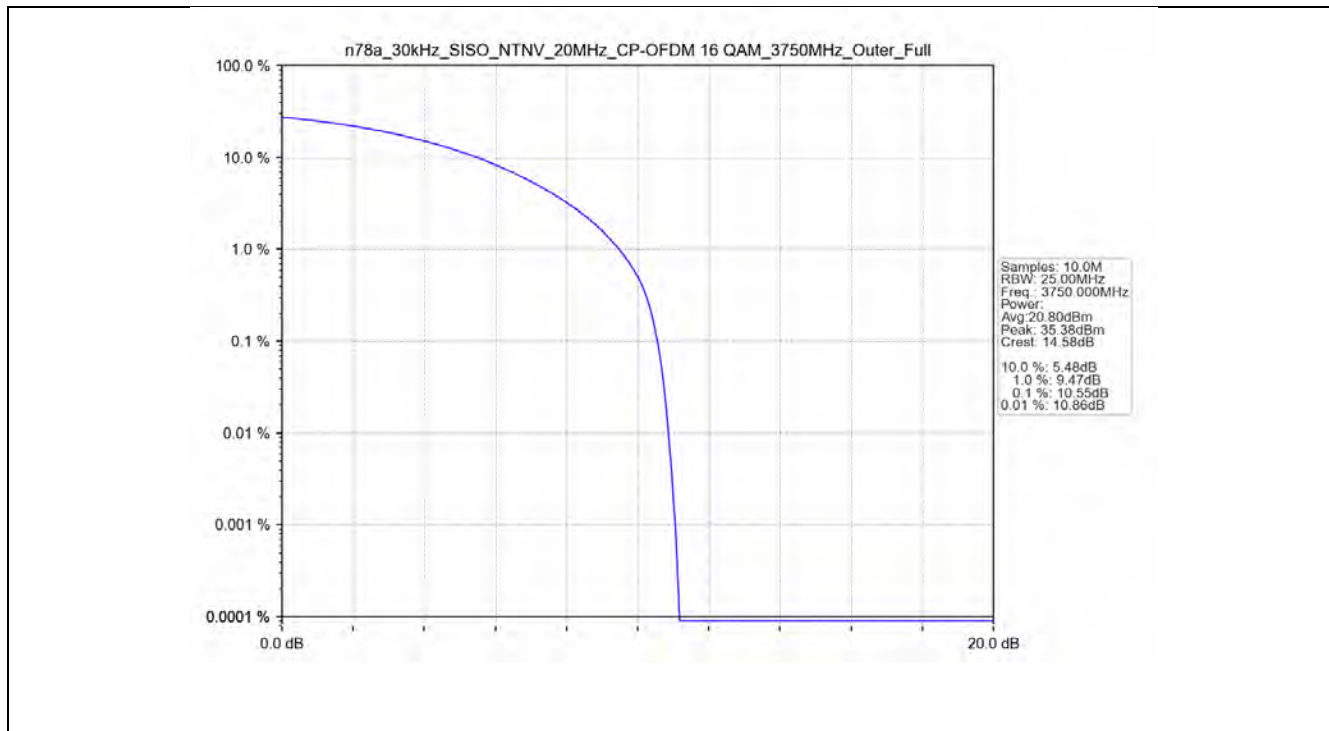
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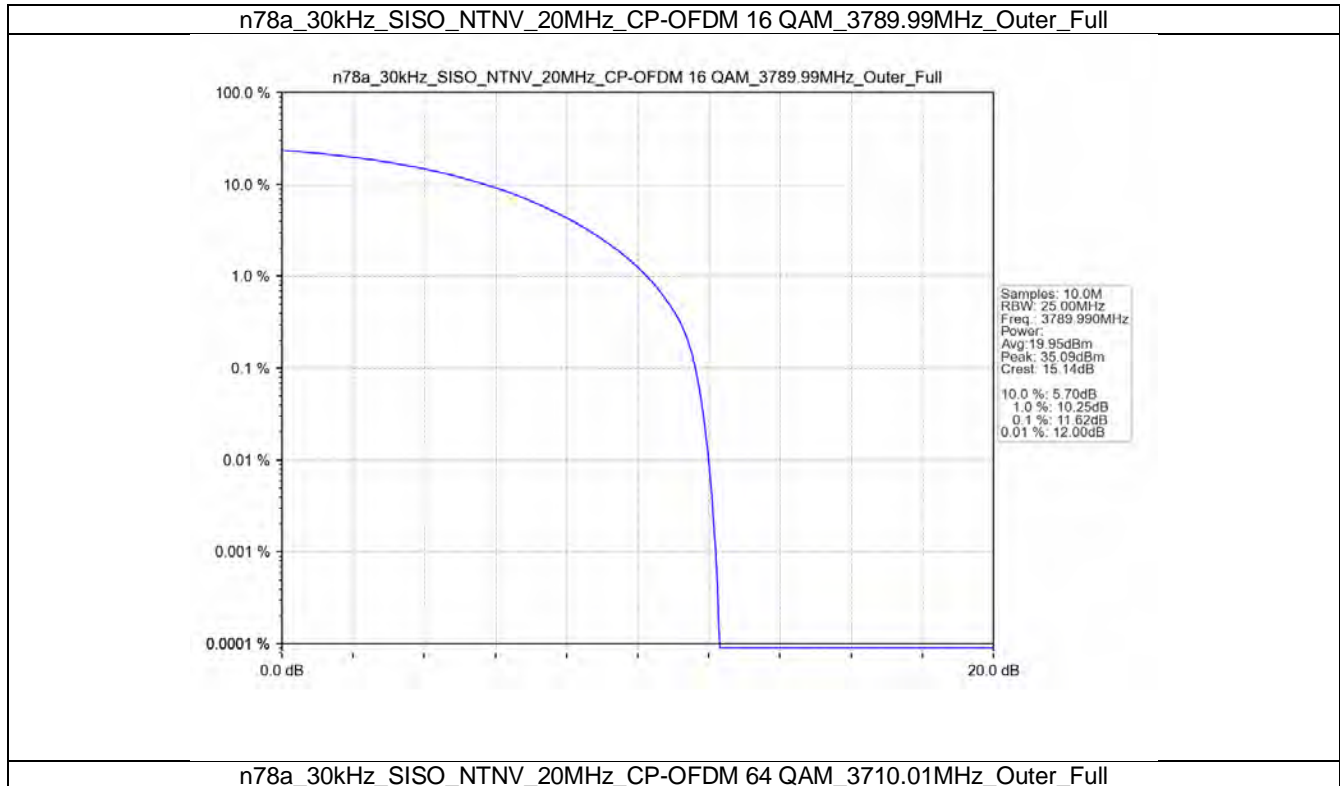


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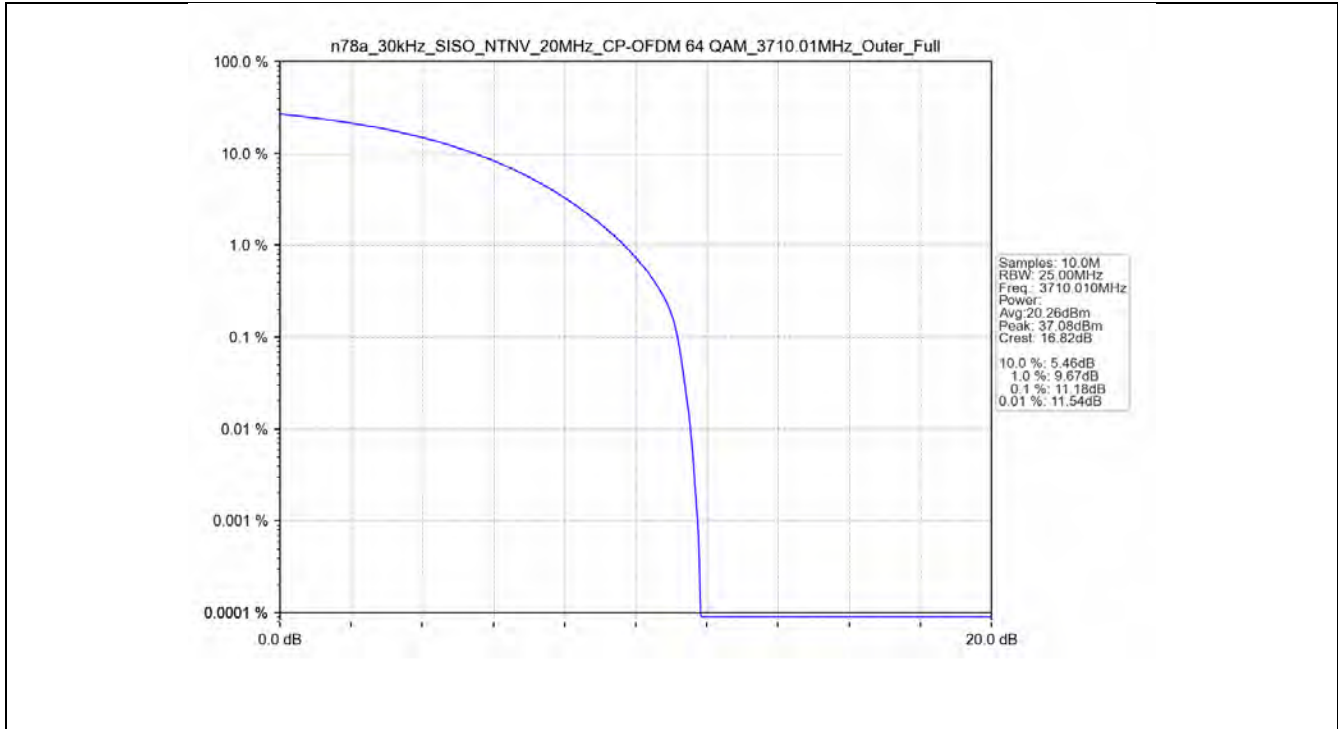


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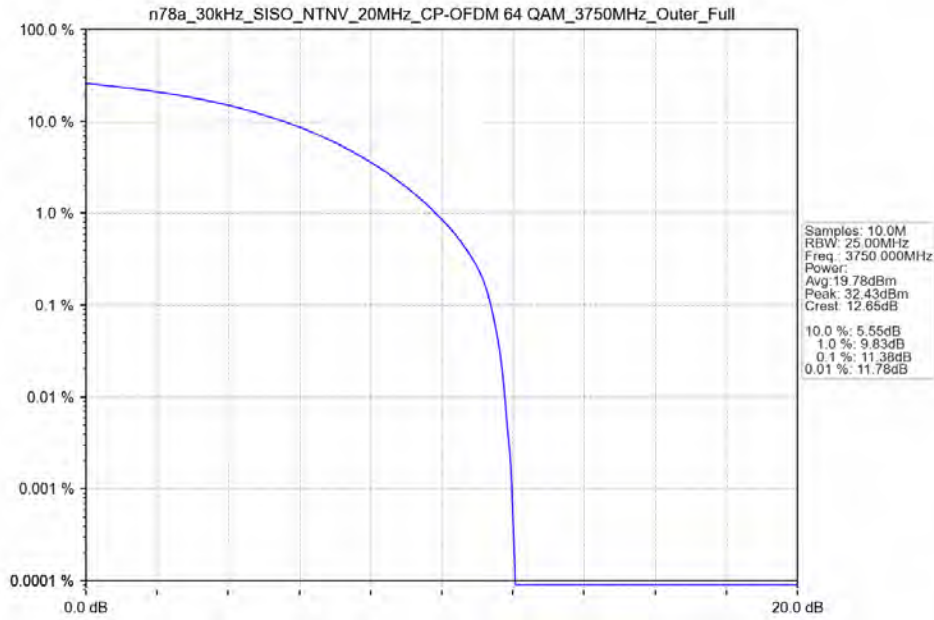
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n78a_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_3750MHz_Outer_Full



n78a_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_3789.99MHz_Outer_Full



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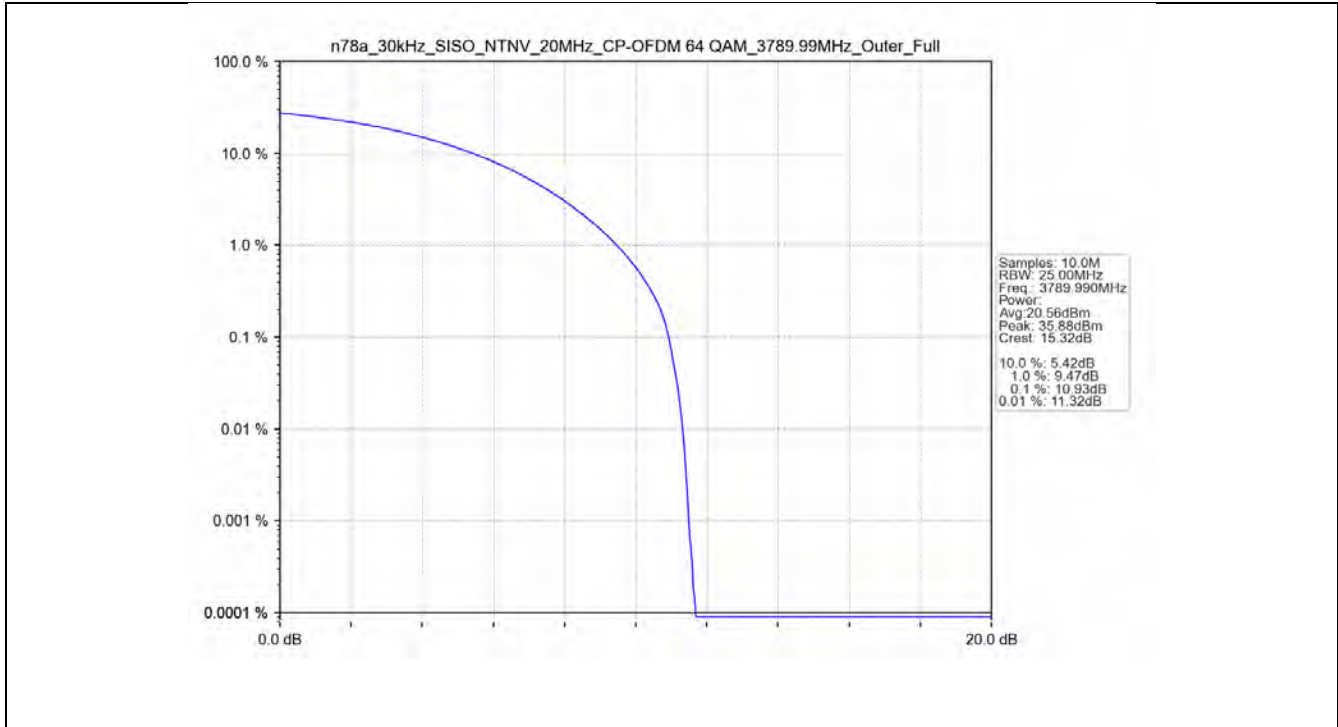


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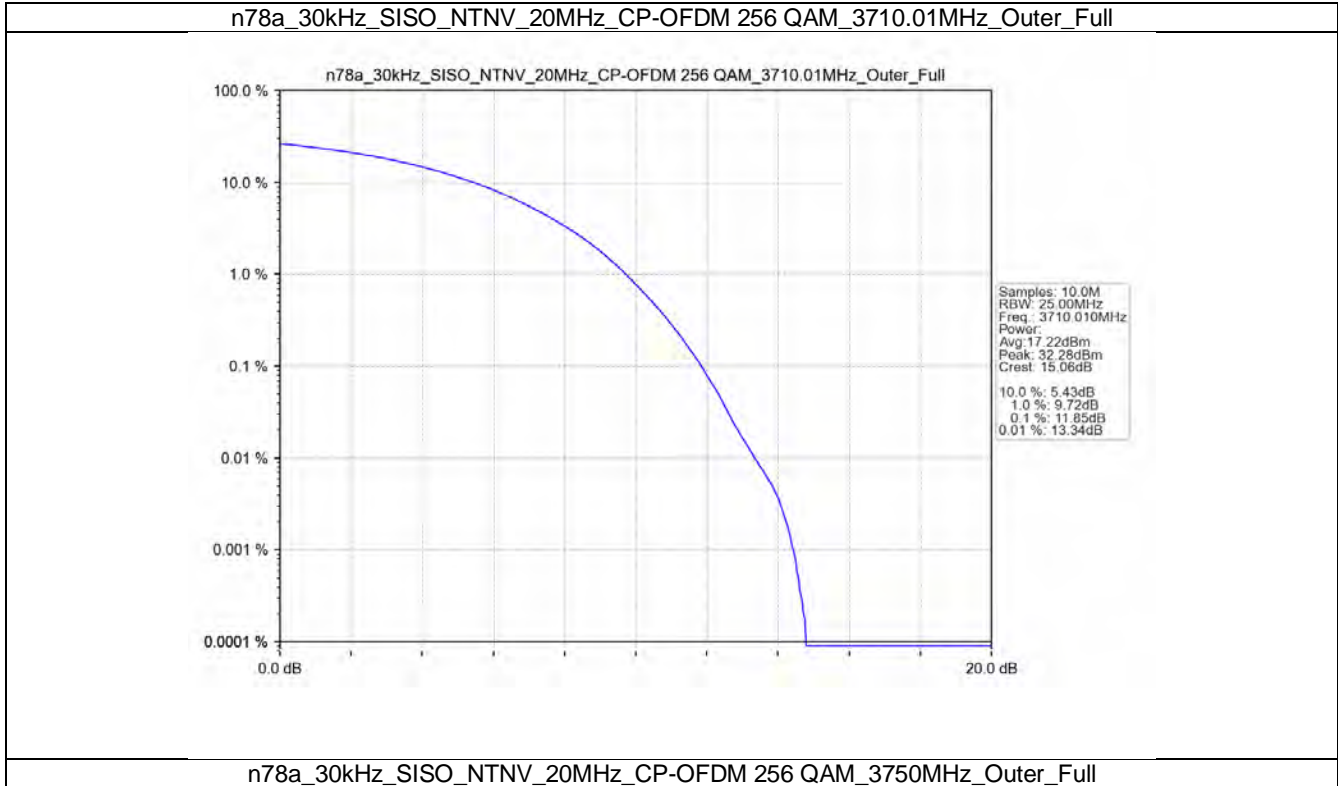


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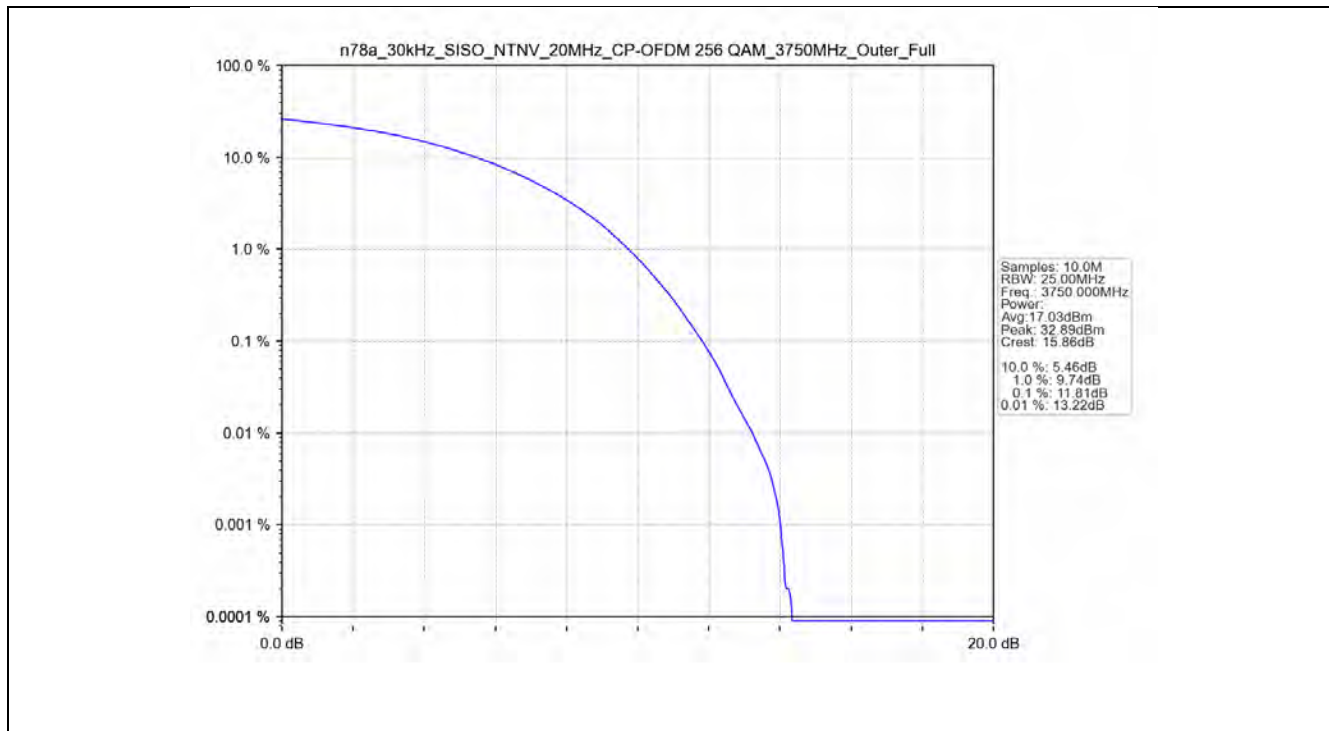
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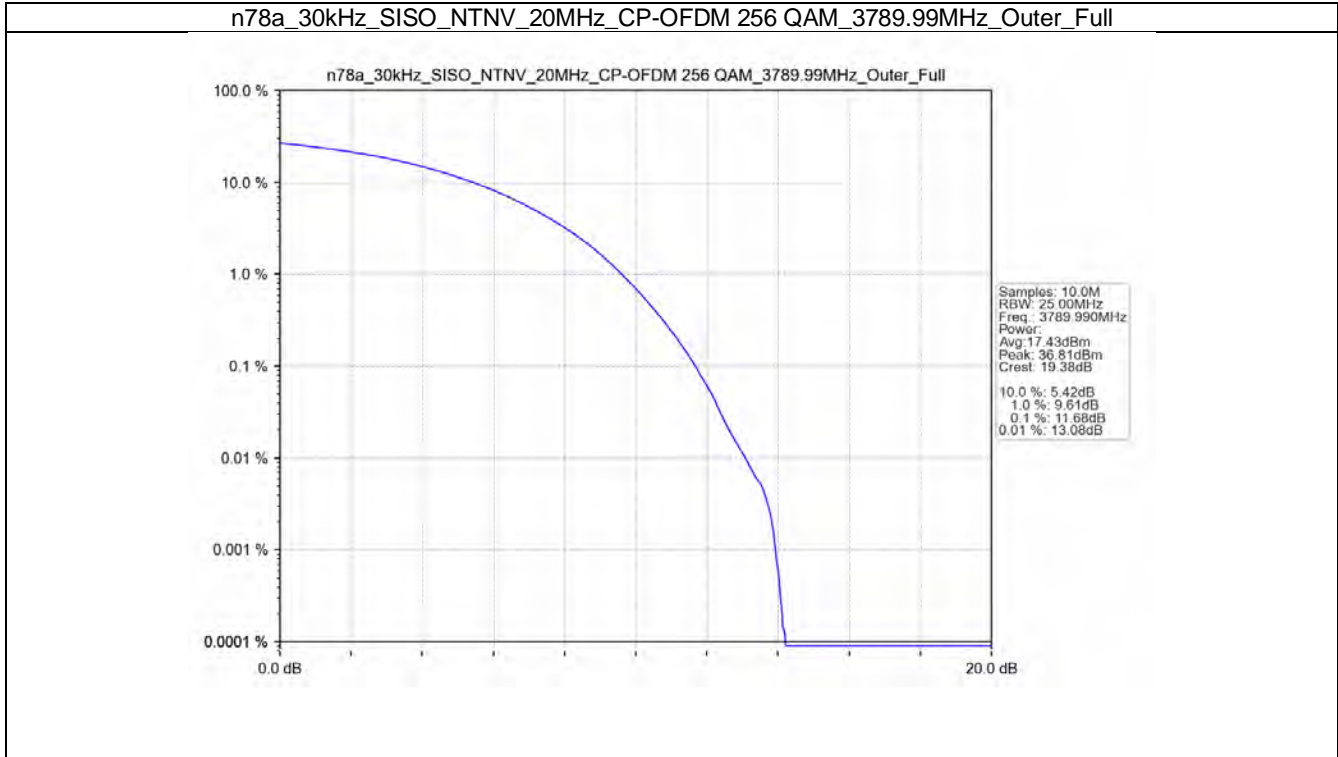


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4.2 30k_SISO_30MHz_NTNV

4.2.1 Test Result

5G NR n78a SCS=30kHz SISO 30MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3715.02	Outer_Full	8.71	/	/	<=13	Pass
	3750	Outer_Full	8.26	/	/	<=13	Pass
	3784.98	Outer_Full	7.42	/	/	<=13	Pass
DFT-s-OFDM QPSK	3715.02	Outer_Full	10.07	/	/	<=13	Pass
	3750	Outer_Full	8.58	/	/	<=13	Pass
	3784.98	Outer_Full	8.57	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3715.02	Outer_Full	9.69	/	/	<=13	Pass
	3750	Outer_Full	9.35	/	/	<=13	Pass
	3784.98	Outer_Full	9.47	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3715.02	Outer_Full	10.20	/	/	<=13	Pass
	3750	Outer_Full	9.59	/	/	<=13	Pass
	3784.98	Outer_Full	9.50	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3715.02	Outer_Full	11.00	/	/	<=13	Pass
	3750	Outer_Full	10.23	/	/	<=13	Pass
	3784.98	Outer_Full	9.72	/	/	<=13	Pass
CP-OFDM QPSK	3715.02	Outer_Full	11.02	/	/	<=13	Pass
	3750	Outer_Full	10.79	/	/	<=13	Pass
	3784.98	Outer_Full	11.30	/	/	<=13	Pass
CP-OFDM 16 QAM	3715.02	Outer_Full	11.39	/	/	<=13	Pass
	3750	Outer_Full	11.15	/	/	<=13	Pass
	3784.98	Outer_Full	11.42	/	/	<=13	Pass
CP-OFDM 64 QAM	3715.02	Outer_Full	12.20	/	/	<=13	Pass
	3750	Outer_Full	11.98	/	/	<=13	Pass
	3784.98	Outer_Full	11.20	/	/	<=13	Pass
CP-OFDM 256 QAM	3715.02	Outer_Full	11.90	/	/	<=13	Pass
	3750	Outer_Full	11.88	/	/	<=13	Pass
	3784.98	Outer_Full	12.06	/	/	<=13	Pass



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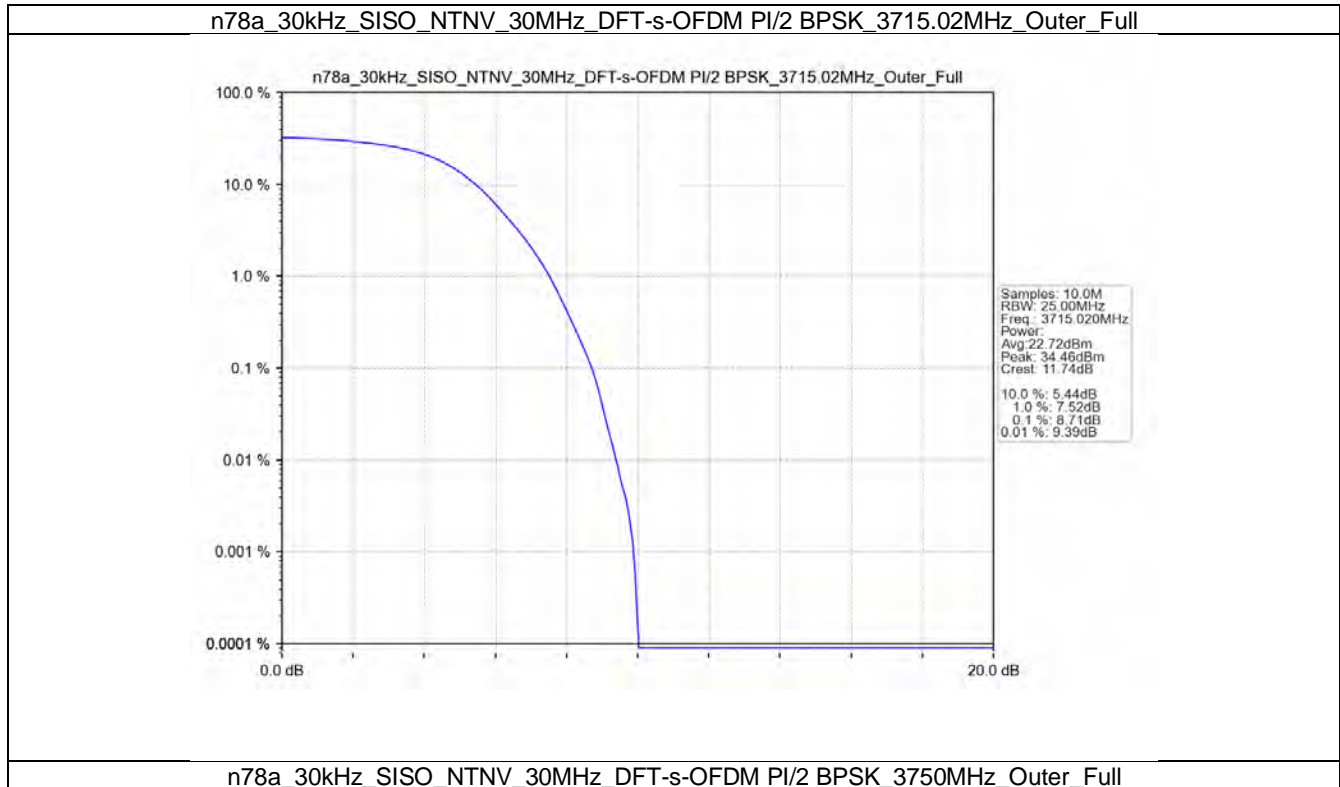
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4.2.2 Test Graph



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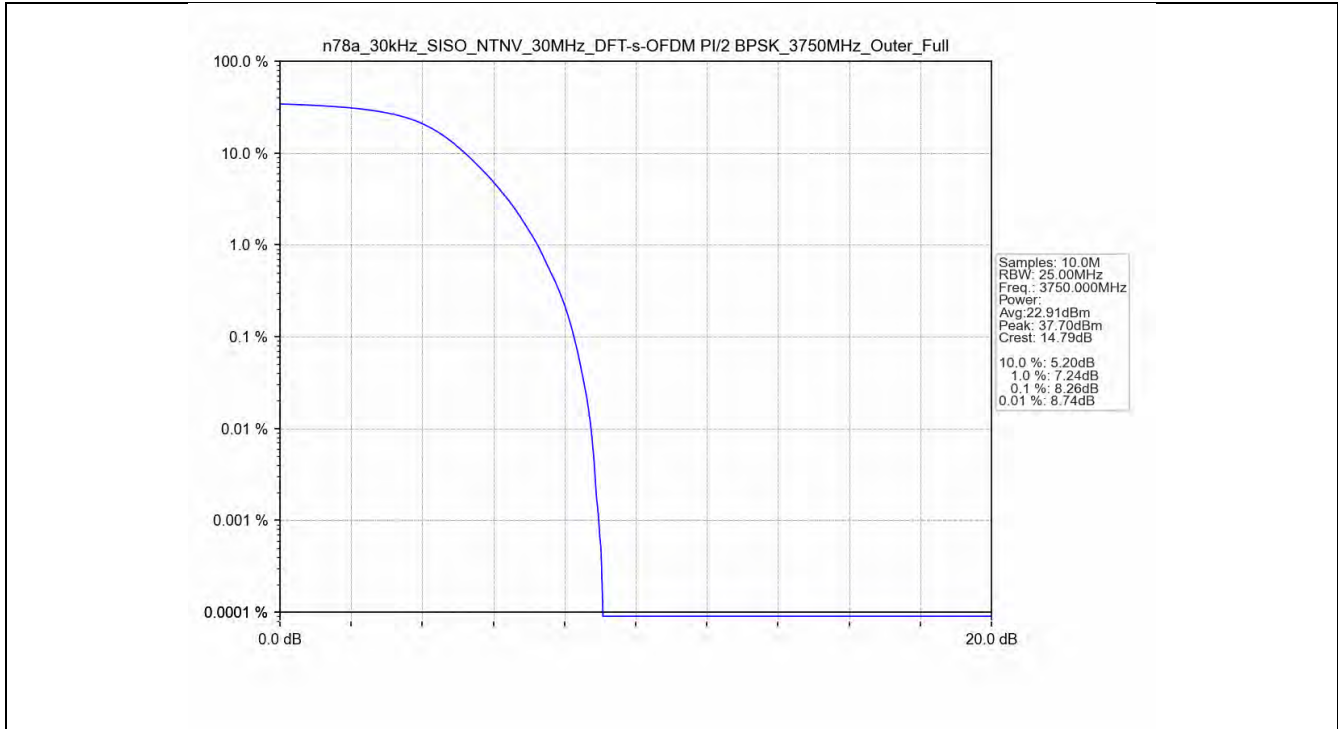


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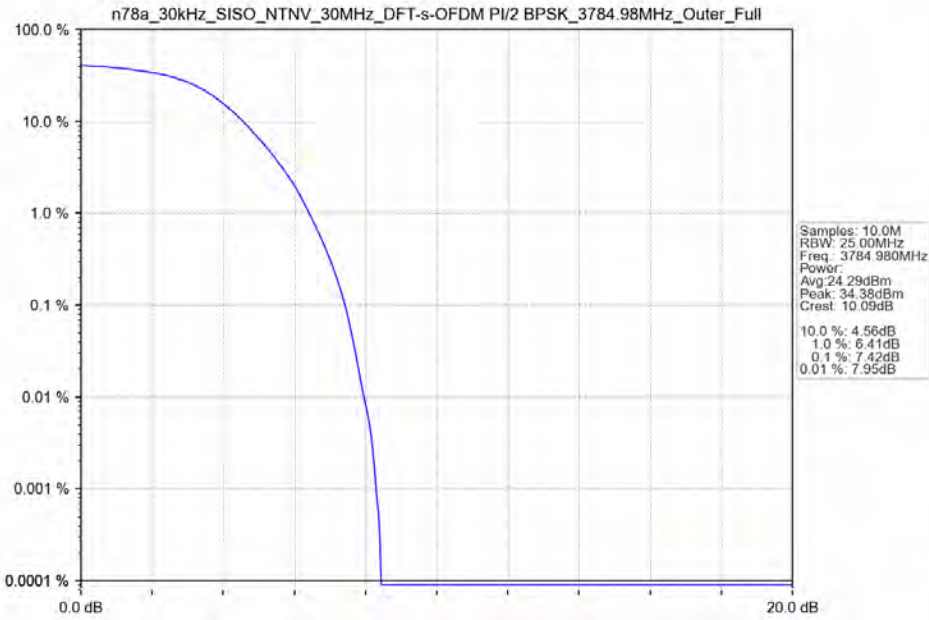
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n78a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_3784.98MHz_Outer_Full



n78a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_3715.02MHz_Outer_Full



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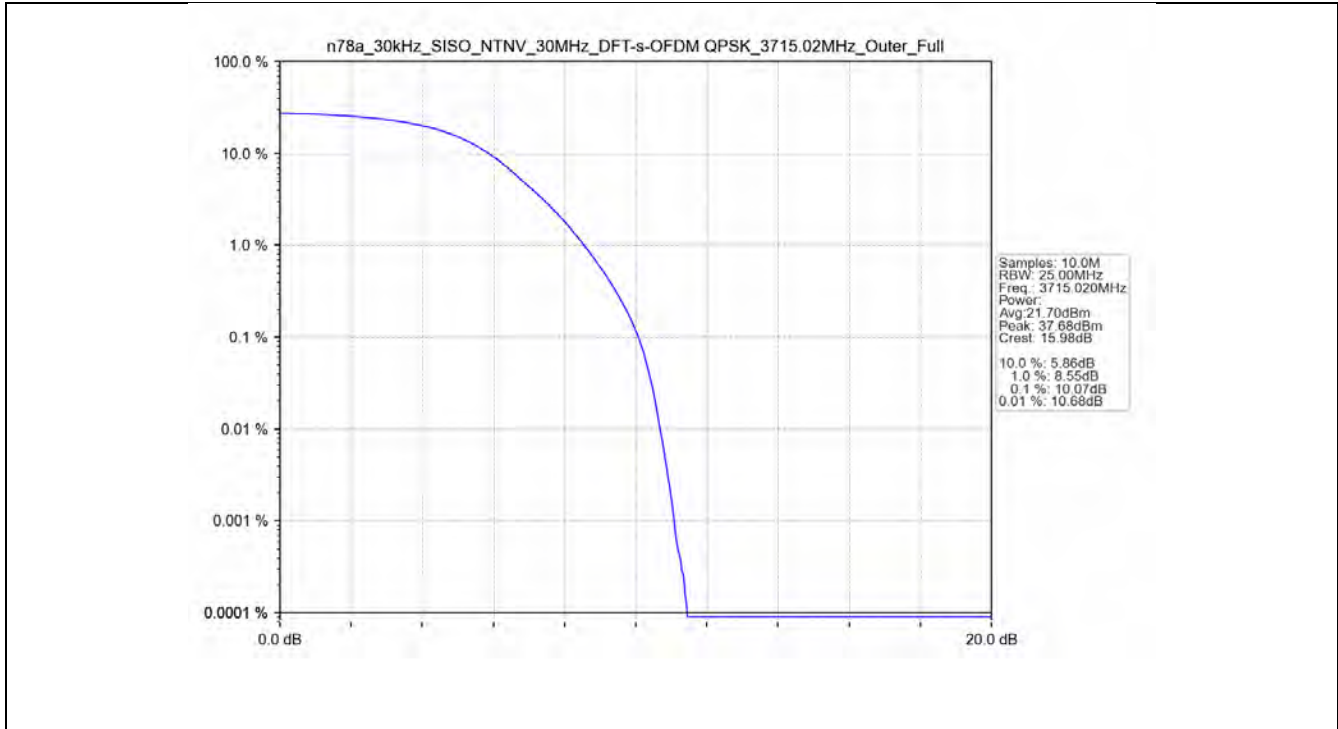


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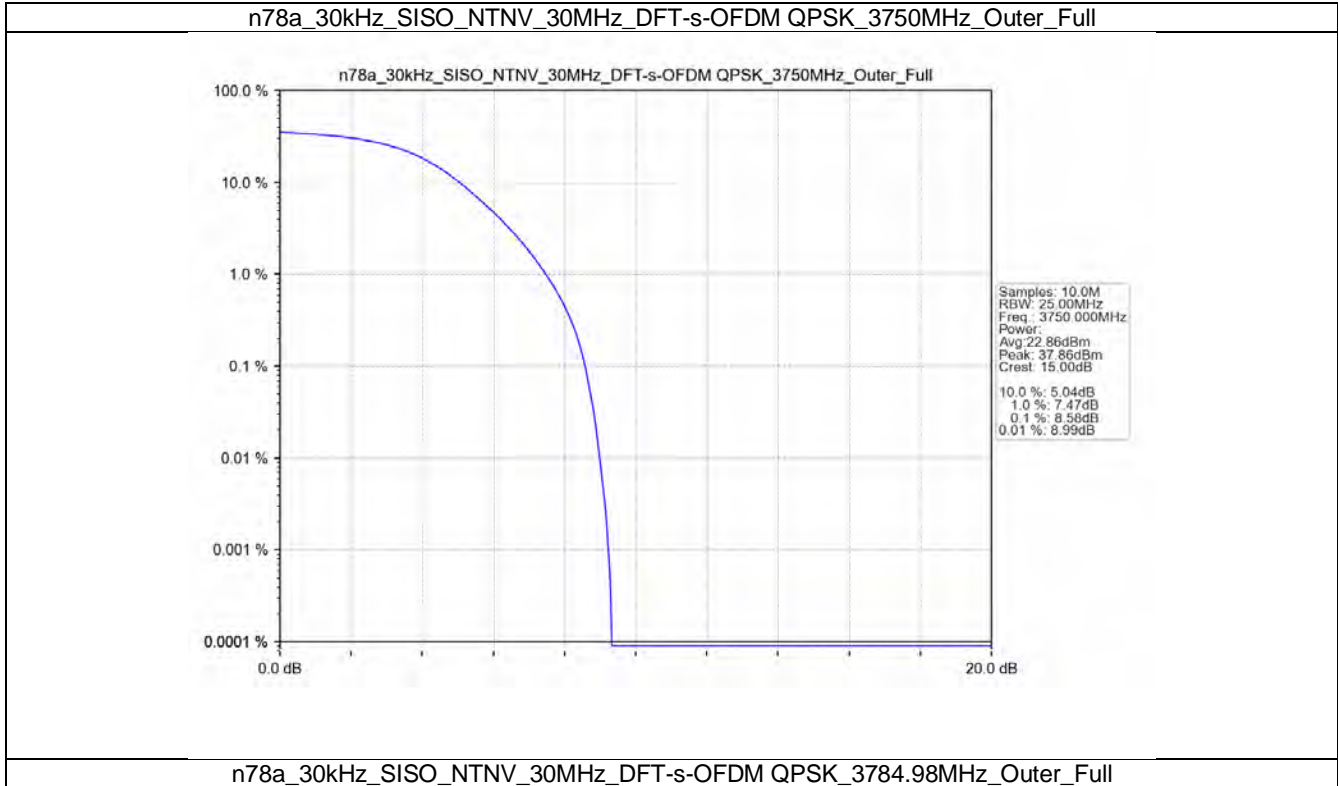


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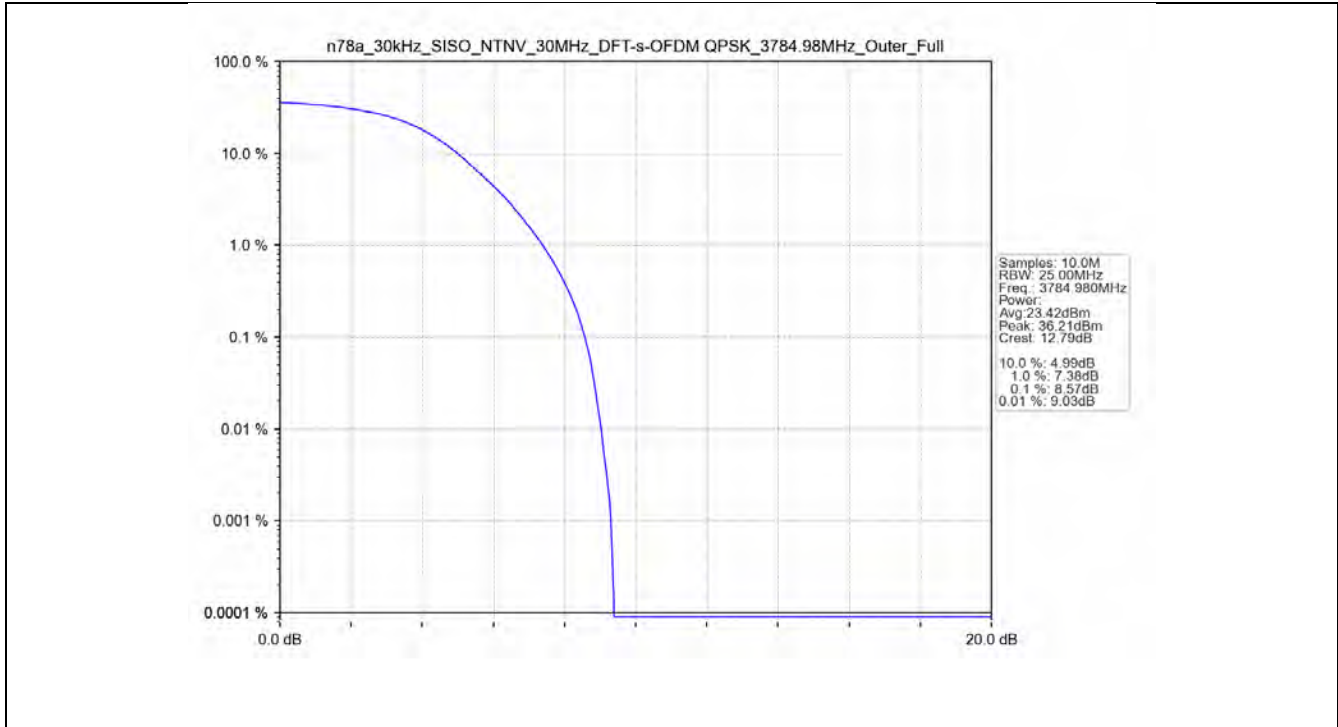


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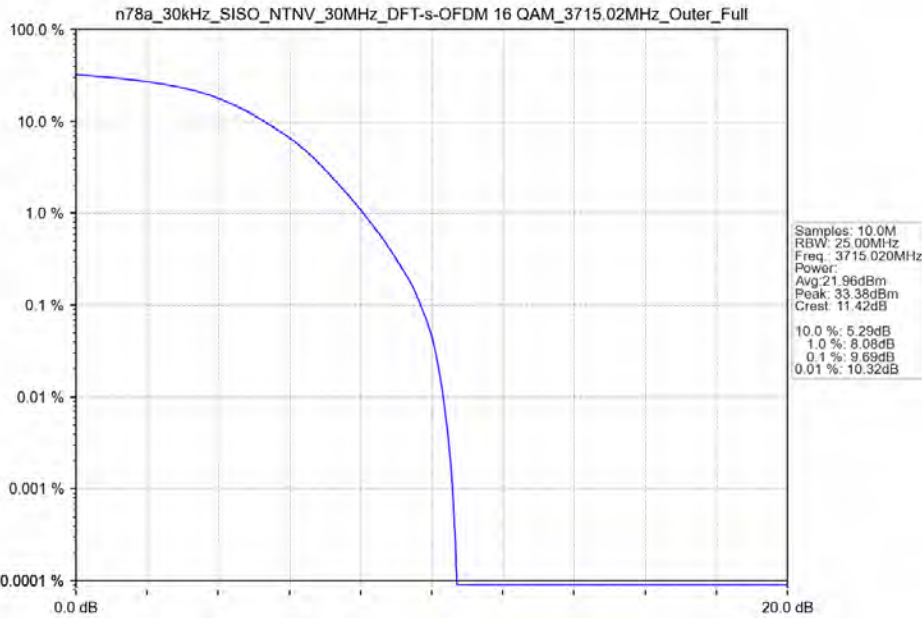
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n78a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_3715.02MHz_Outer_Full



n78a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_3750MHz_Outer_Full



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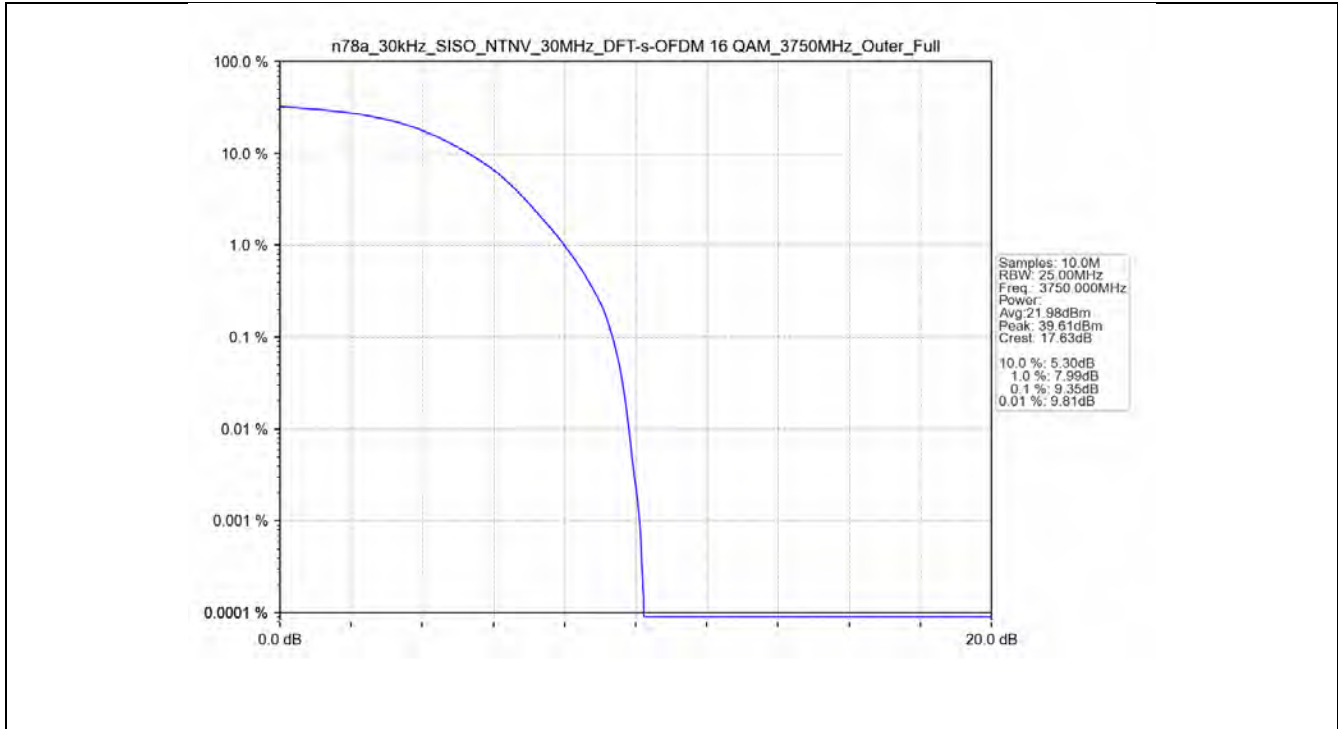


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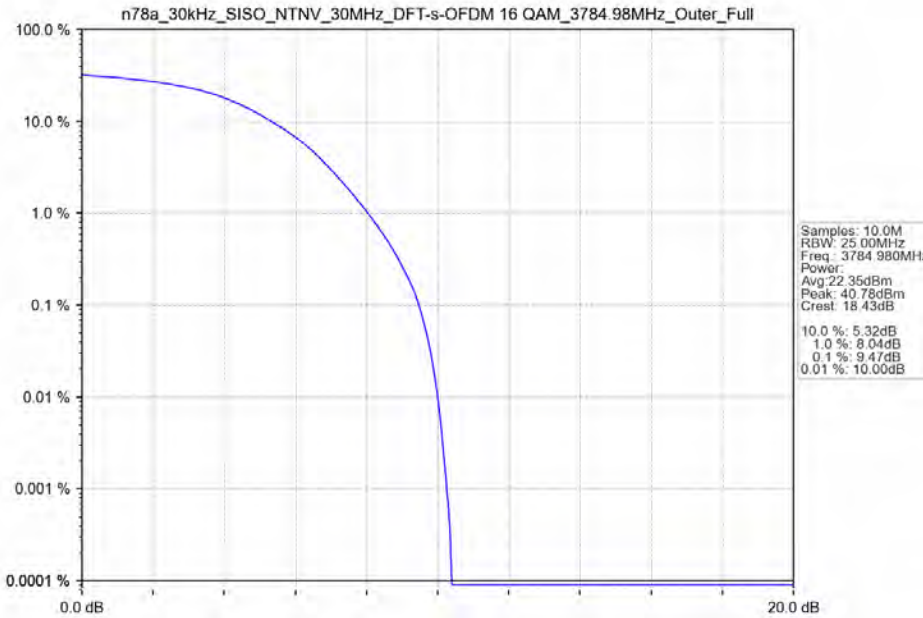
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n78a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 16 QAM_3784.98MHz_Outer_Full



n78a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_3715.02MHz_Outer_Full



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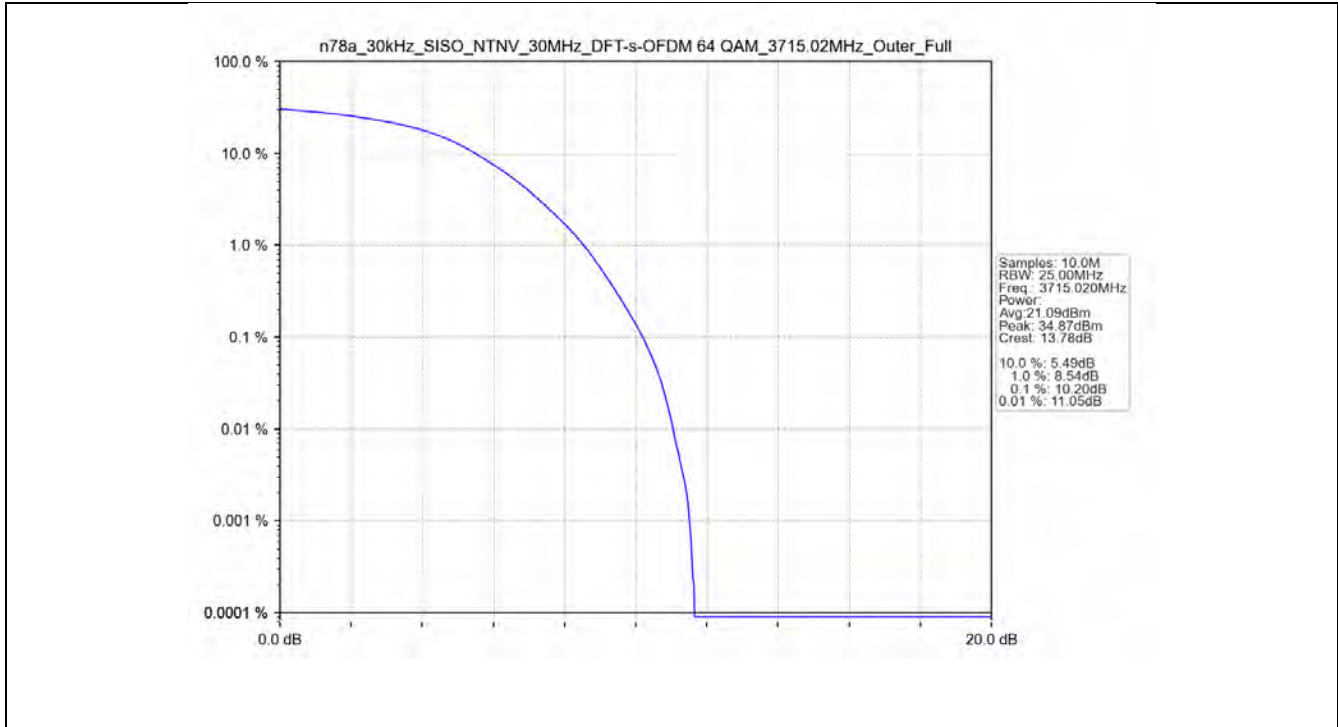


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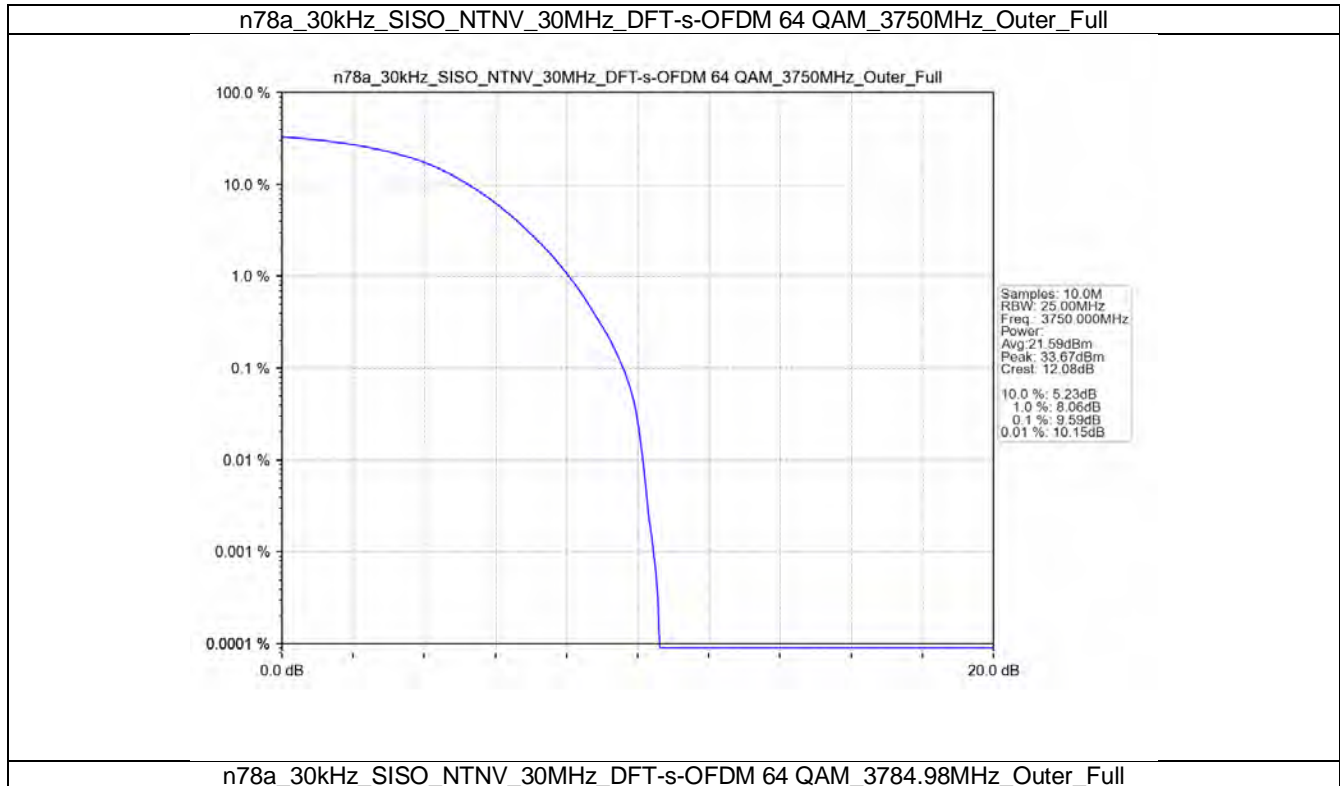


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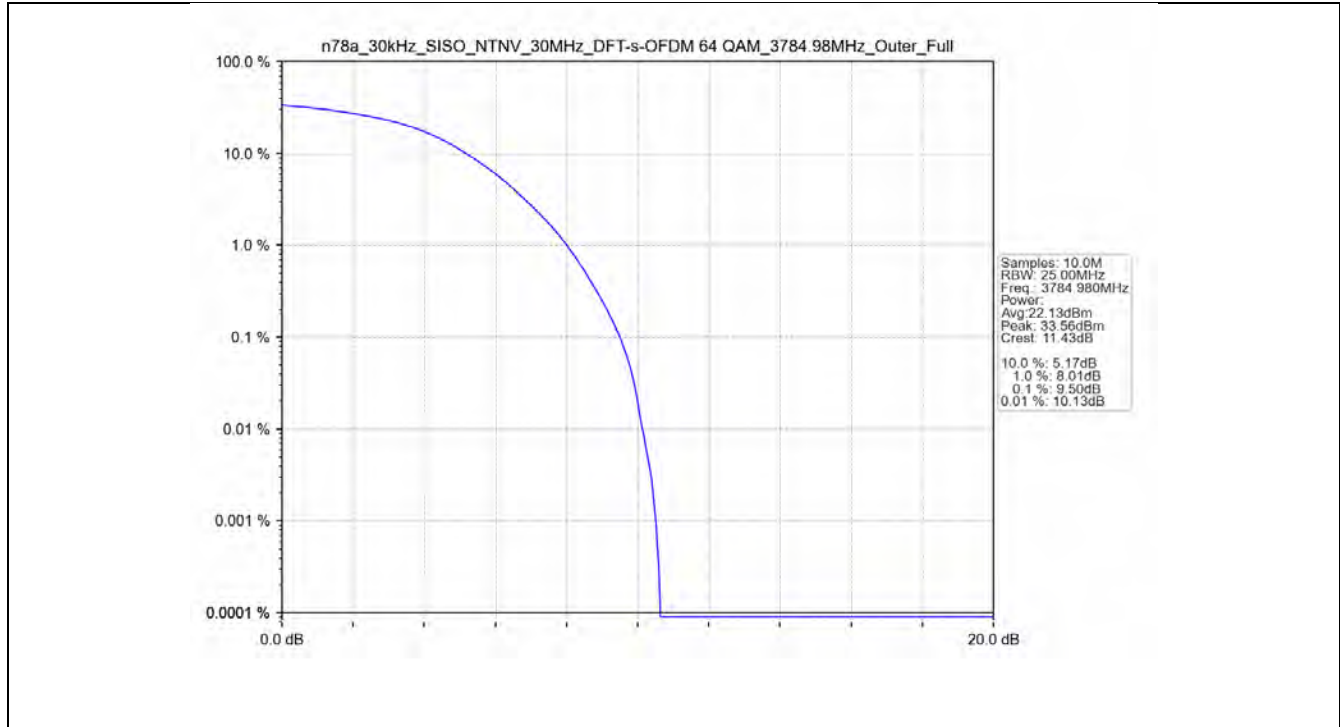


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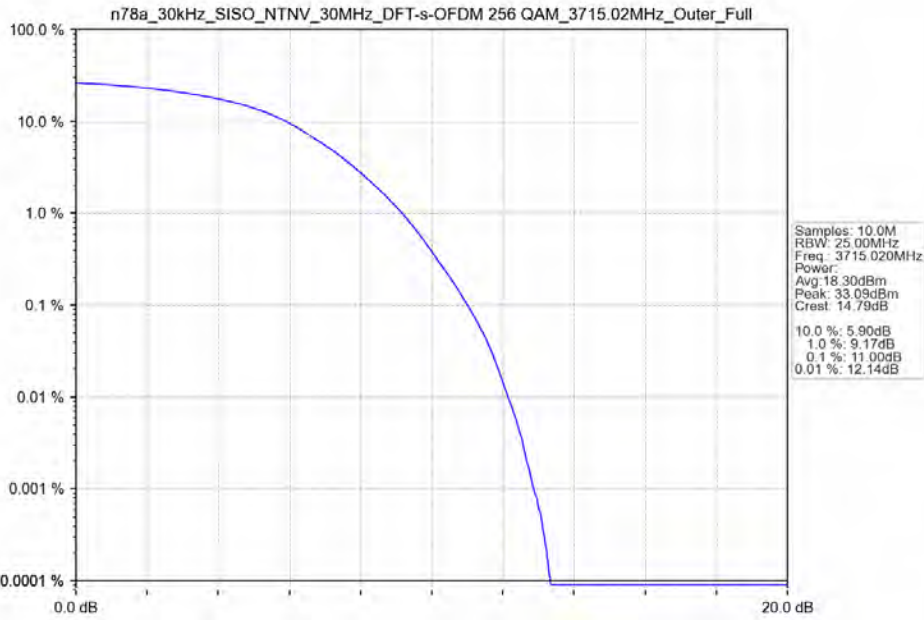
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n78a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 256 QAM_3715.02MHz_Outer_Full



n78a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 256 QAM_3750MHz_Outer_Full



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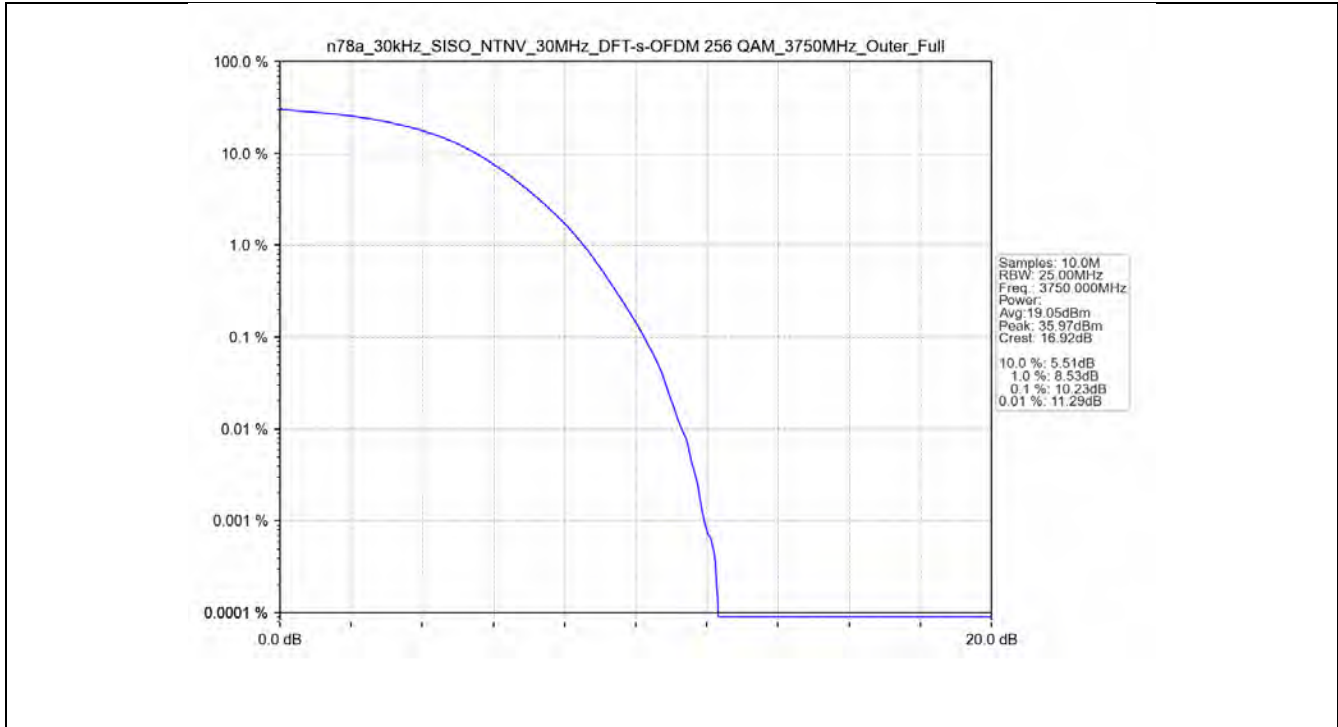


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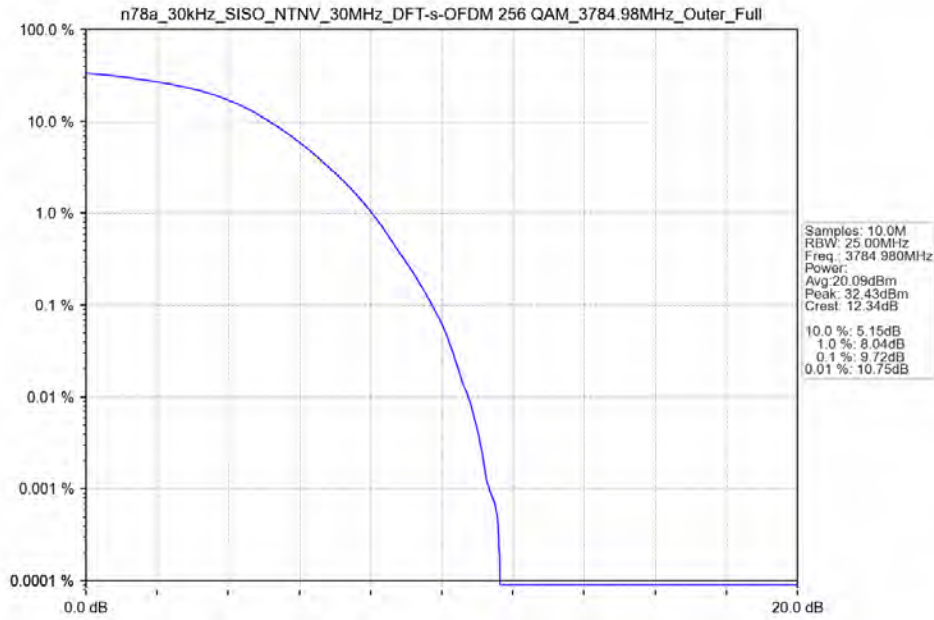
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n78a_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 256 QAM_3784.98MHz_Outer_Full



n78a_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_3715.02MHz_Outer_Full



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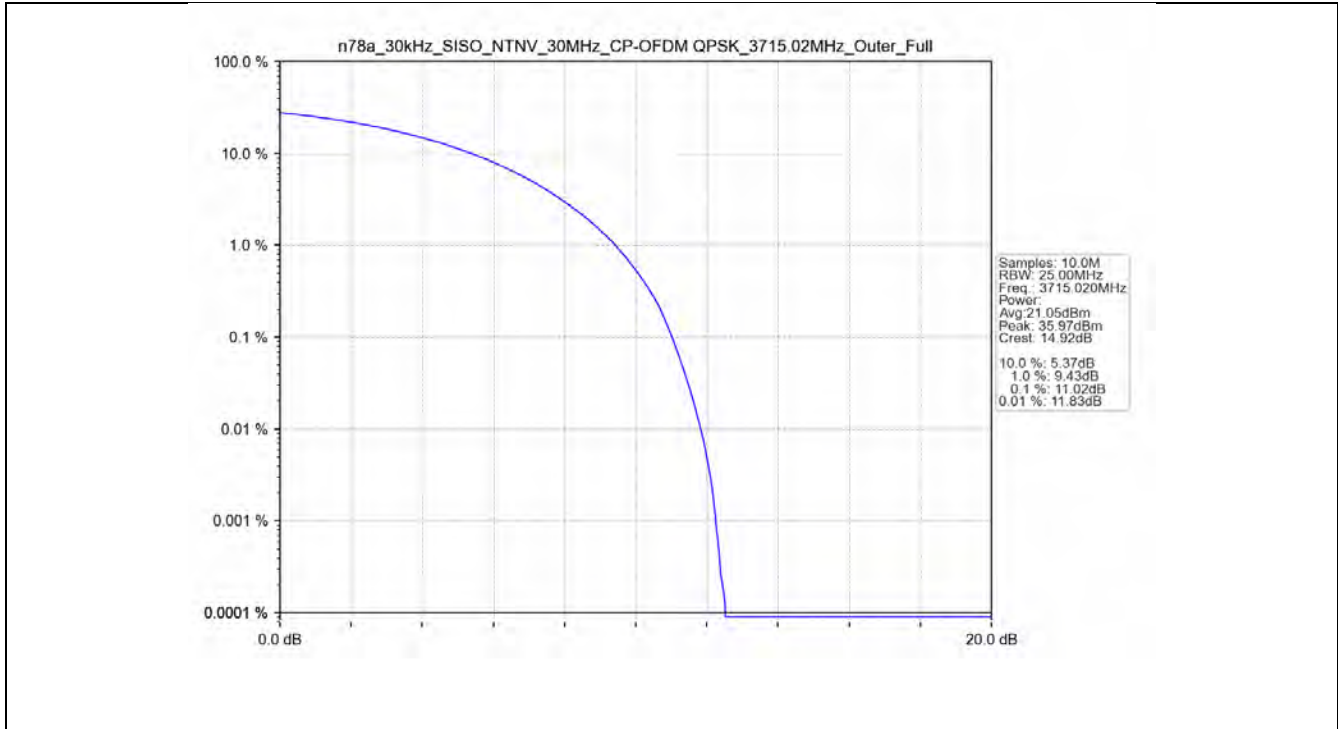


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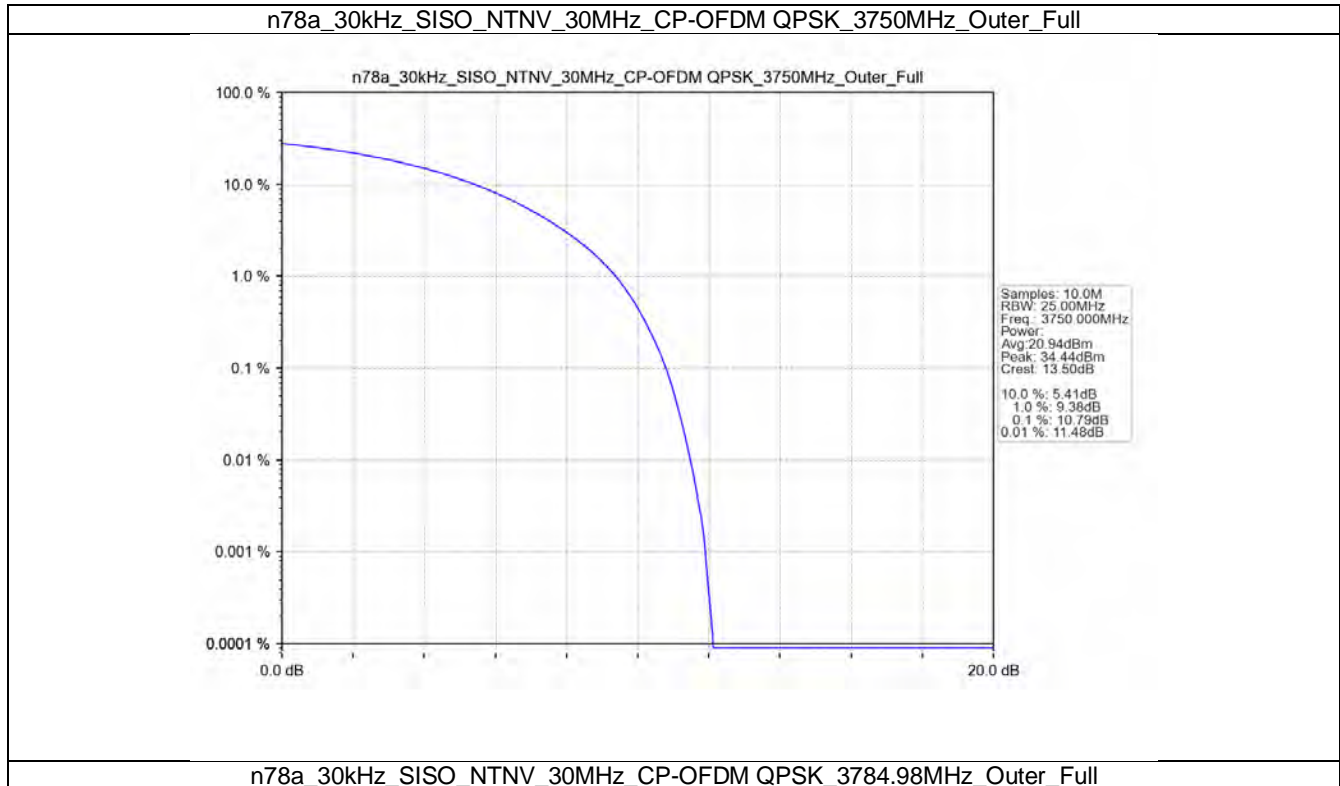


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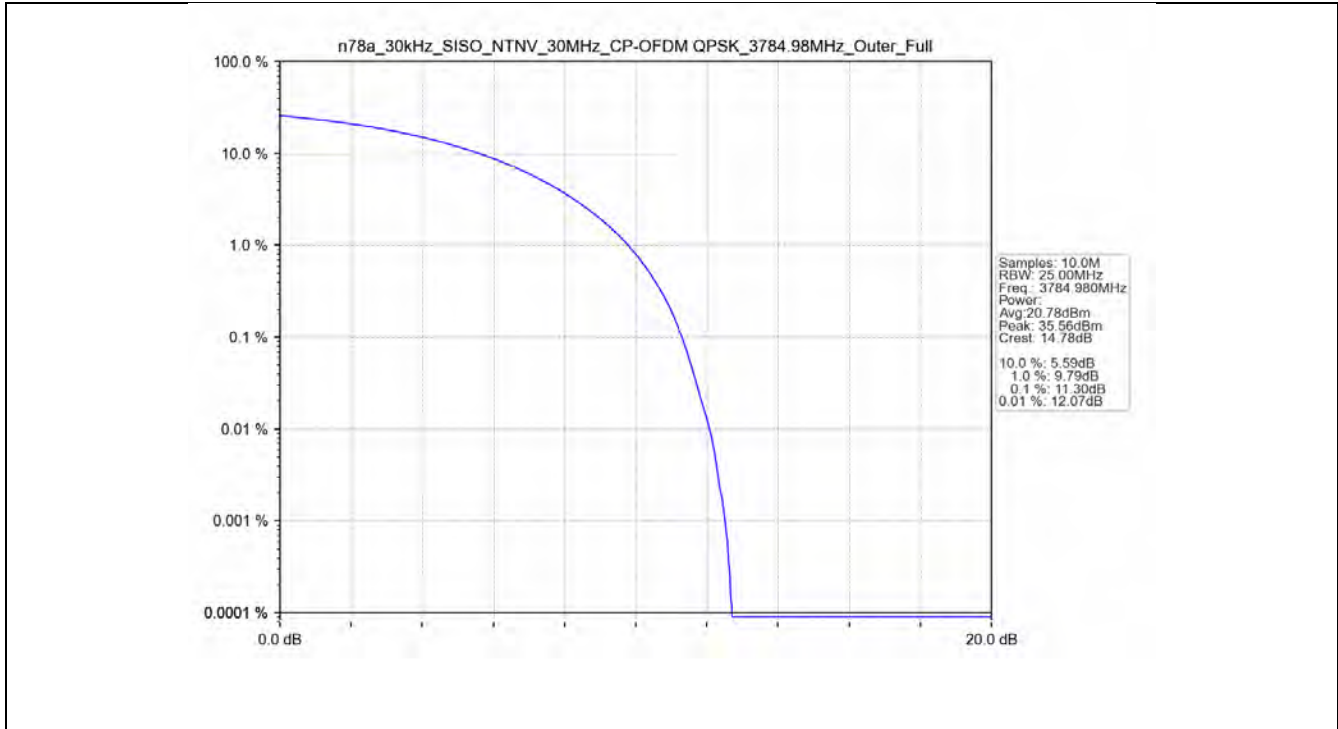


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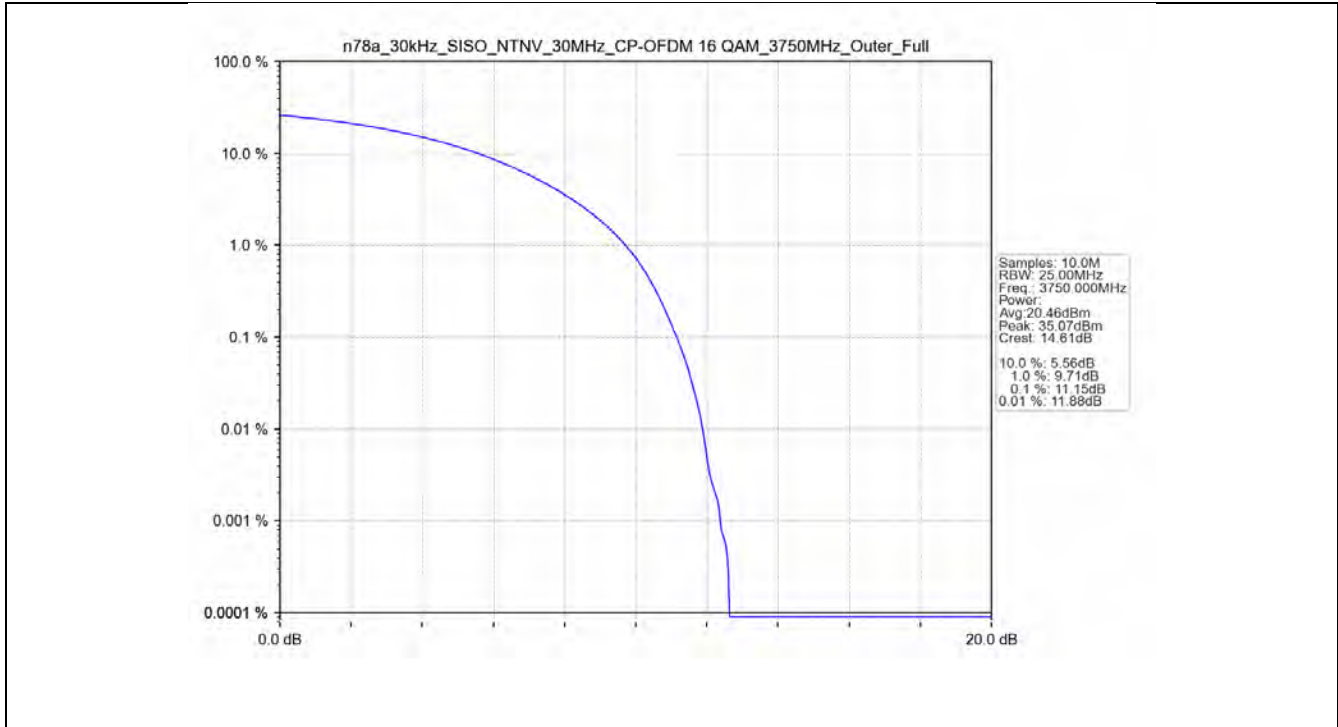


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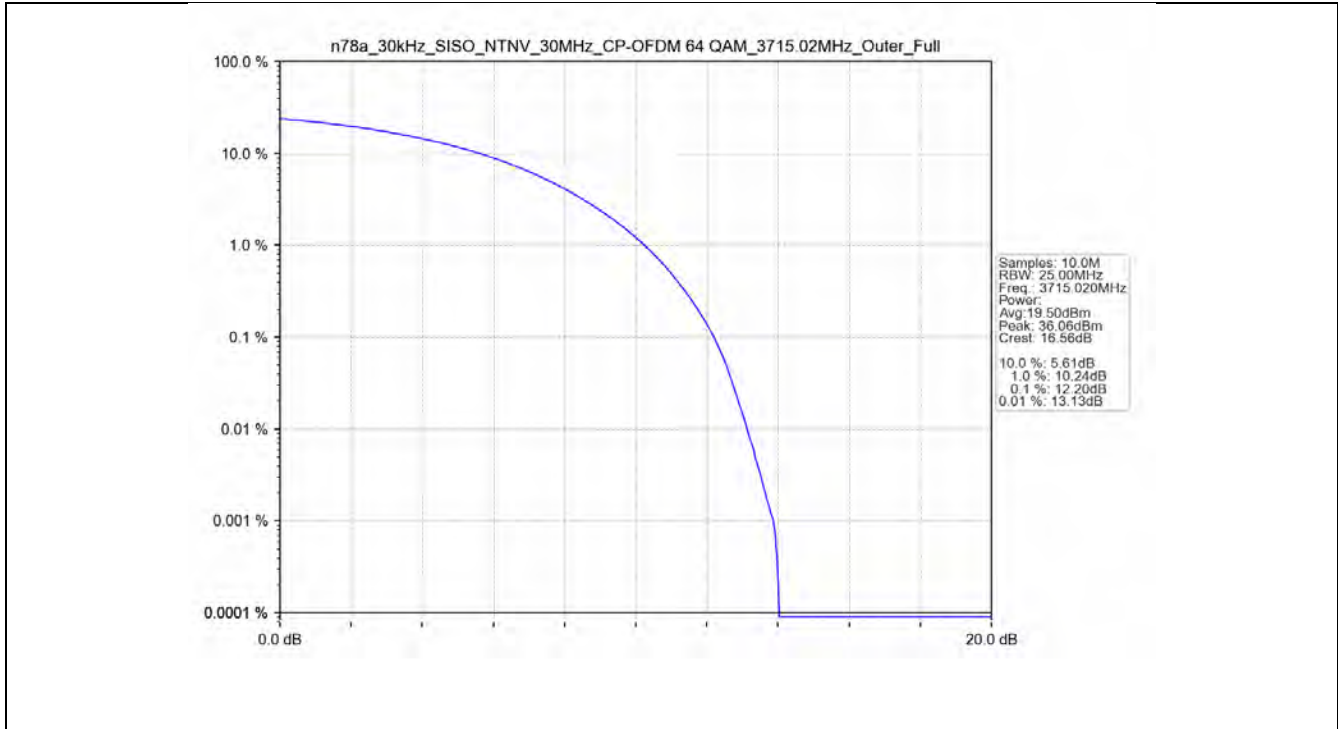


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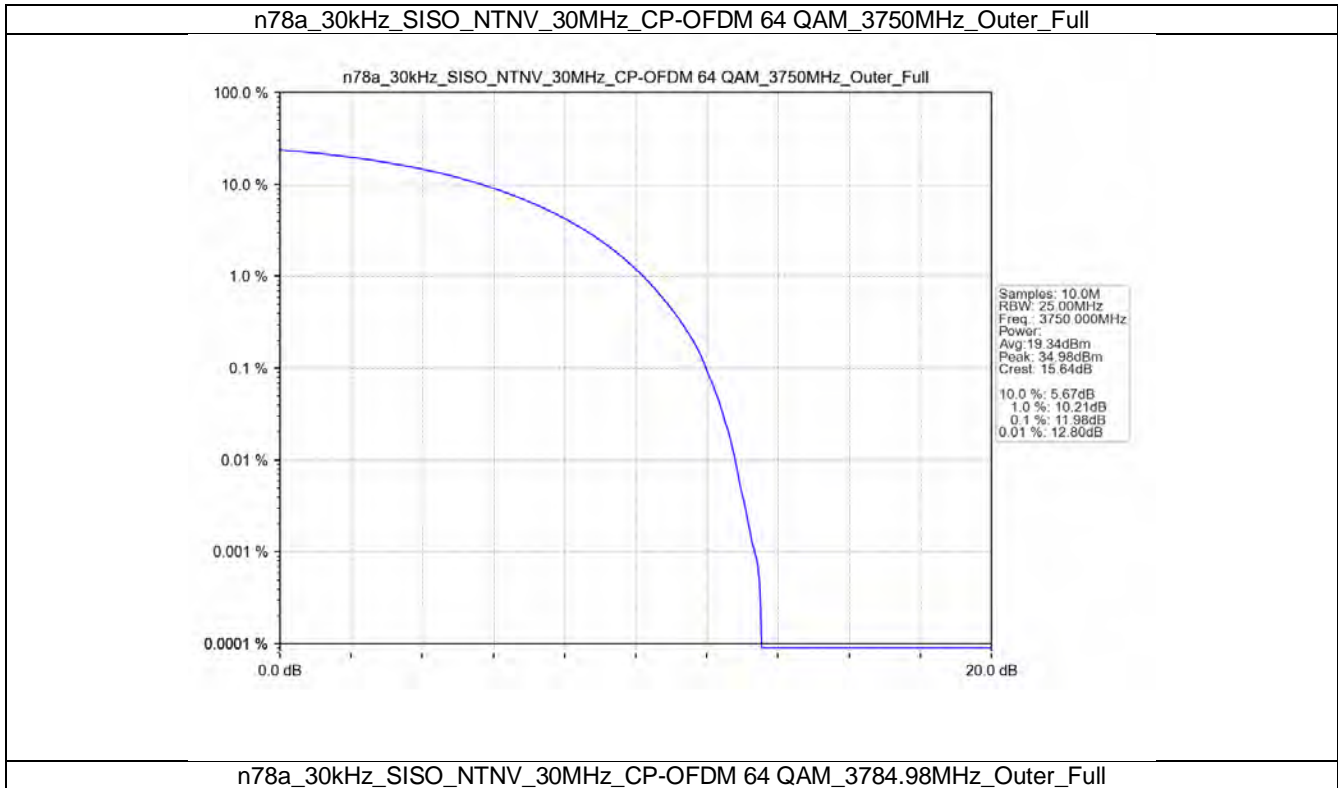


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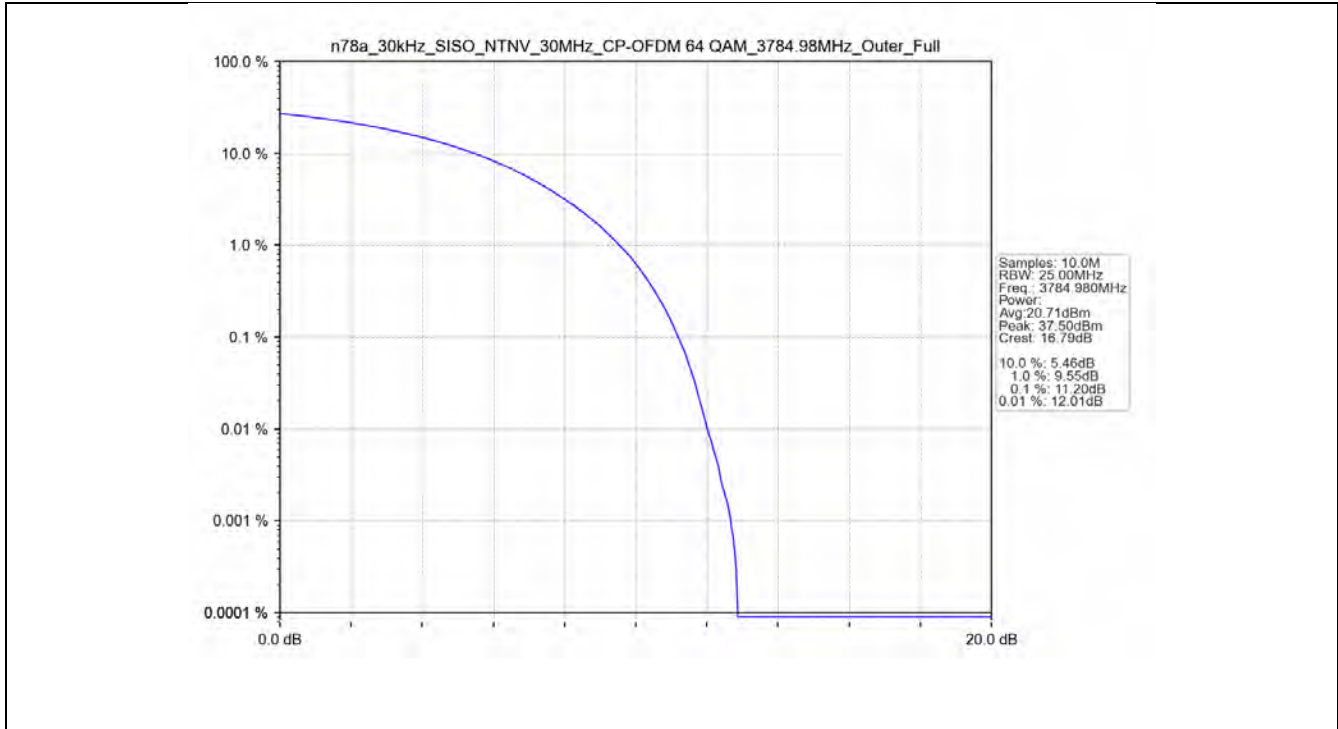


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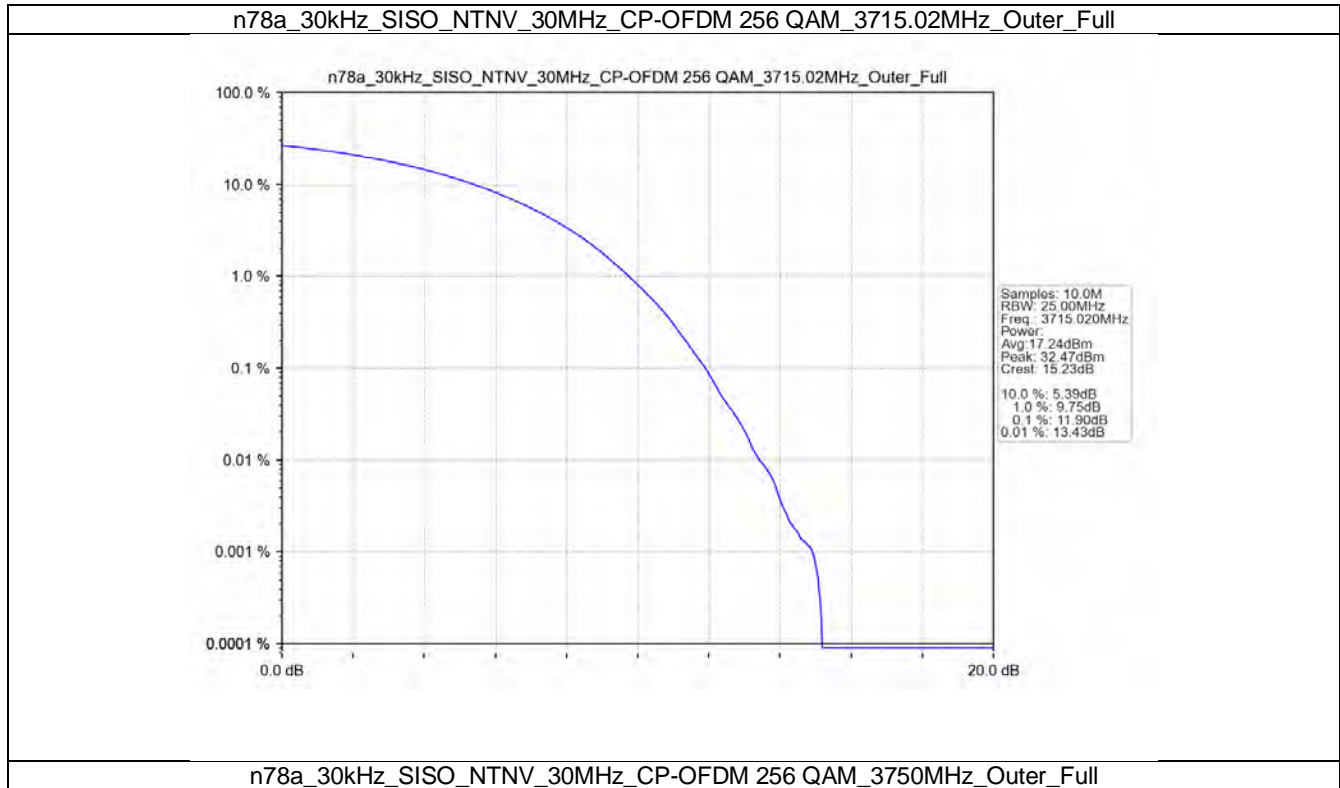


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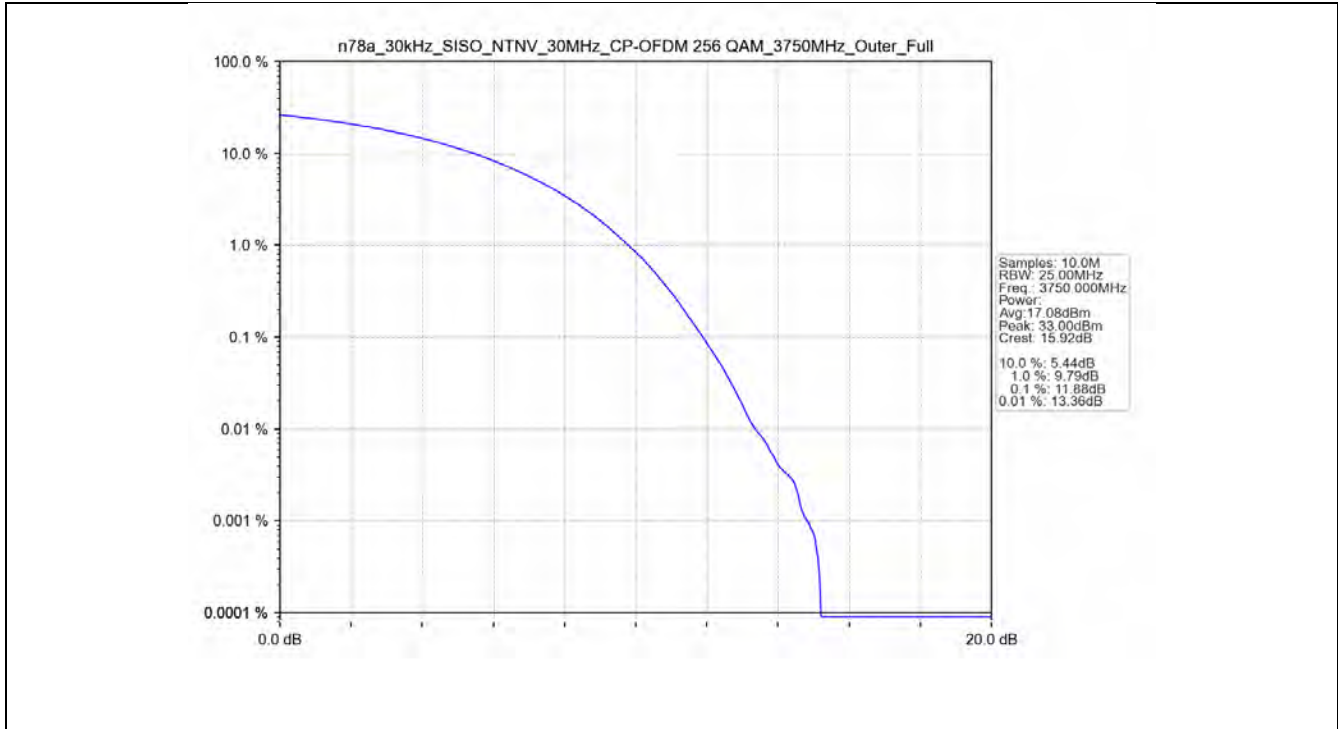


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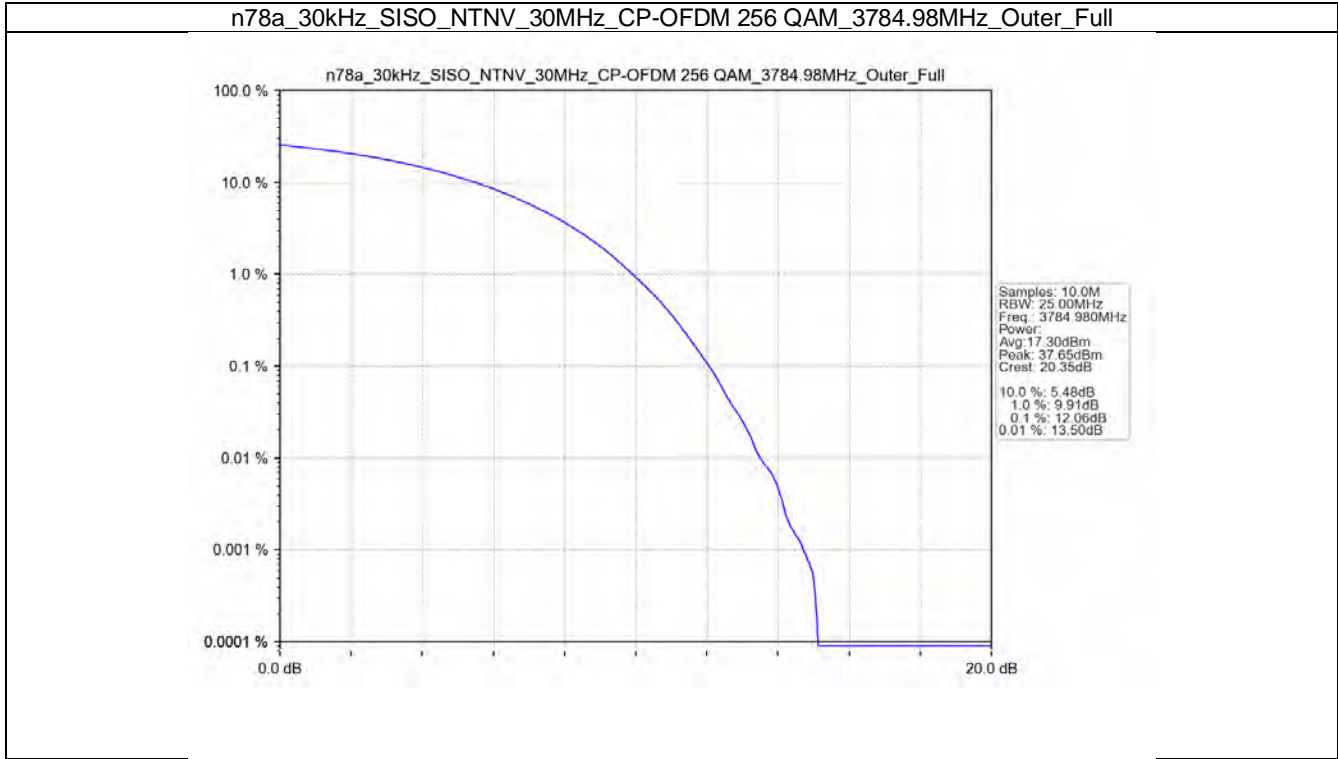


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4.3 30k_SISO_40MHz_NTNV

4.3.1 Test Result

5G NR n78a SCS=30kHz SISO 40MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3720	Outer_Full	9.10	/	/	<=13	Pass
	3750	Outer_Full	8.87	/	/	<=13	Pass
	3780	Outer_Full	8.59	/	/	<=13	Pass
DFT-s-OFDM QPSK	3720	Outer_Full	9.46	/	/	<=13	Pass
	3750	Outer_Full	10.22	/	/	<=13	Pass
	3780	Outer_Full	10.62	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3720	Outer_Full	10.40	/	/	<=13	Pass
	3750	Outer_Full	10.31	/	/	<=13	Pass
	3780	Outer_Full	11.47	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3720	Outer_Full	11.41	/	/	<=13	Pass
	3750	Outer_Full	10.39	/	/	<=13	Pass
	3780	Outer_Full	10.36	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3720	Outer_Full	10.54	/	/	<=13	Pass
	3750	Outer_Full	10.50	/	/	<=13	Pass
	3780	Outer_Full	10.96	/	/	<=13	Pass
CP-OFDM QPSK	3720	Outer_Full	11.42	/	/	<=13	Pass
	3750	Outer_Full	11.34	/	/	<=13	Pass
	3780	Outer_Full	10.80	/	/	<=13	Pass
CP-OFDM 16 QAM	3720	Outer_Full	11.53	/	/	<=13	Pass
	3750	Outer_Full	11.57	/	/	<=13	Pass
	3780	Outer_Full	11.12	/	/	<=13	Pass
CP-OFDM 64 QAM	3720	Outer_Full	11.48	/	/	<=13	Pass
	3750	Outer_Full	11.65	/	/	<=13	Pass
	3780	Outer_Full	12.83	/	/	<=13	Pass
CP-OFDM 256 QAM	3720	Outer_Full	11.51	/	/	<=13	Pass
	3750	Outer_Full	11.95	/	/	<=13	Pass
	3780	Outer_Full	11.55	/	/	<=13	Pass



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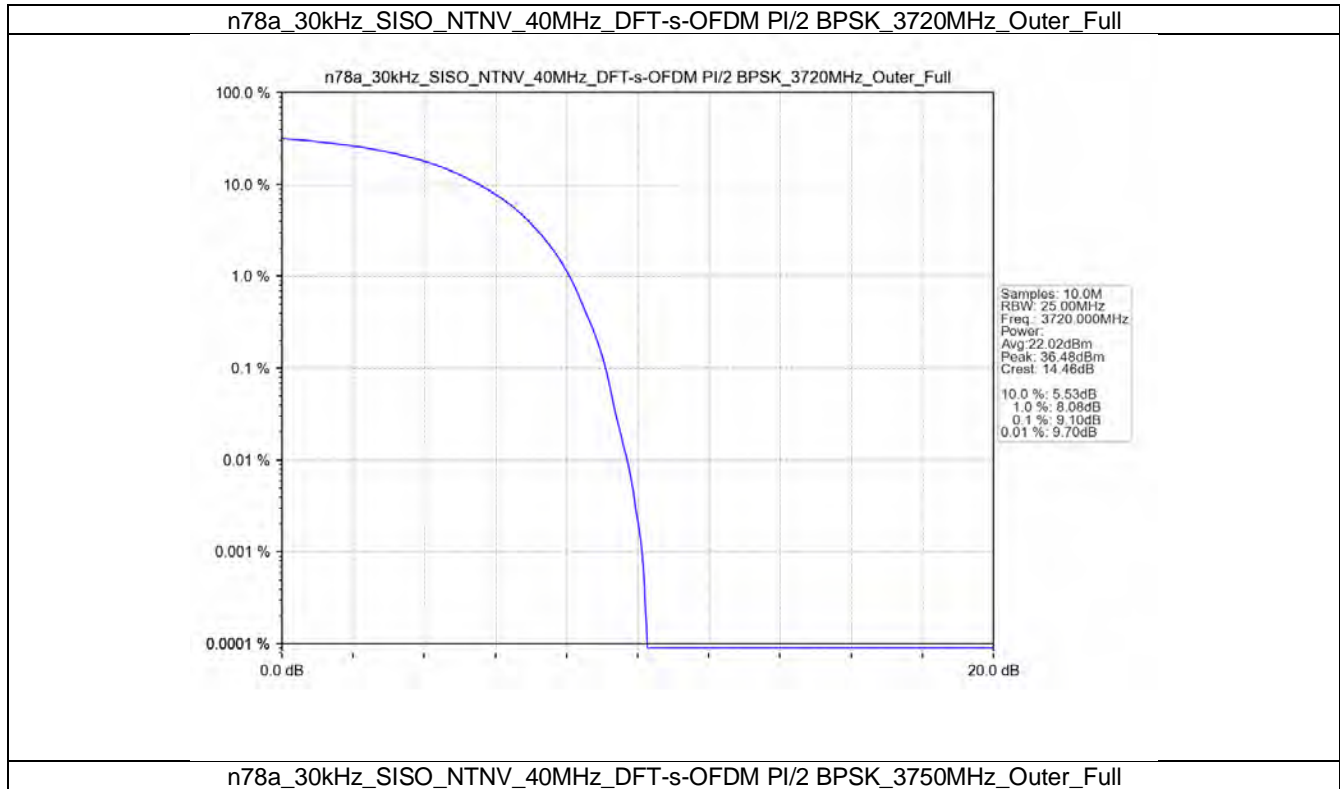
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4.3.2 Test Graph



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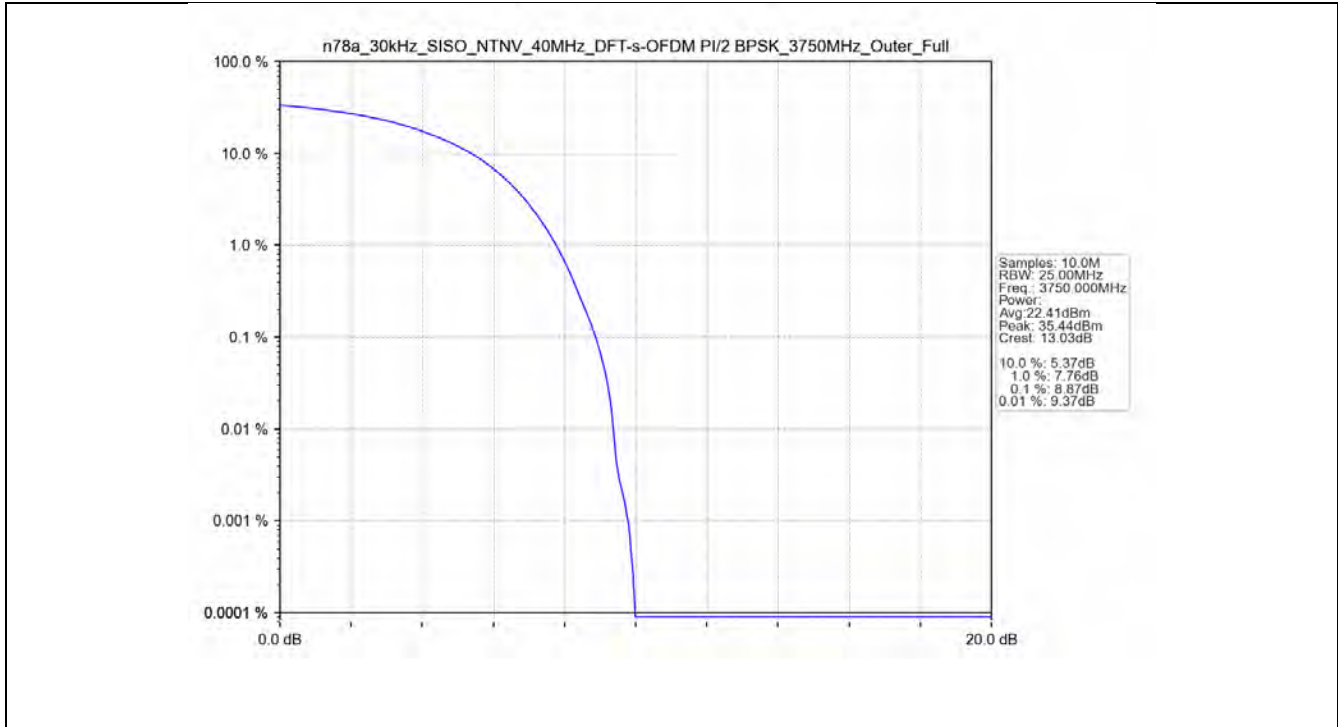


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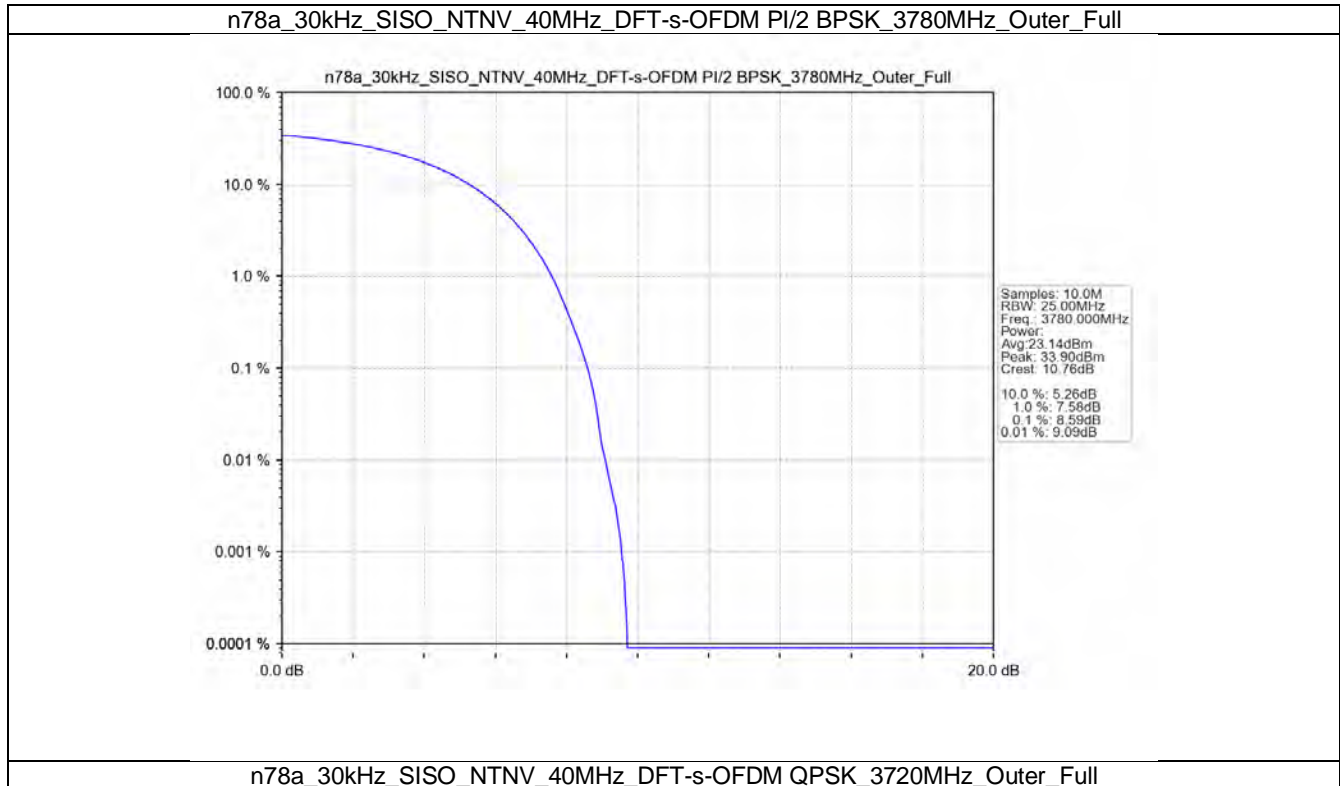


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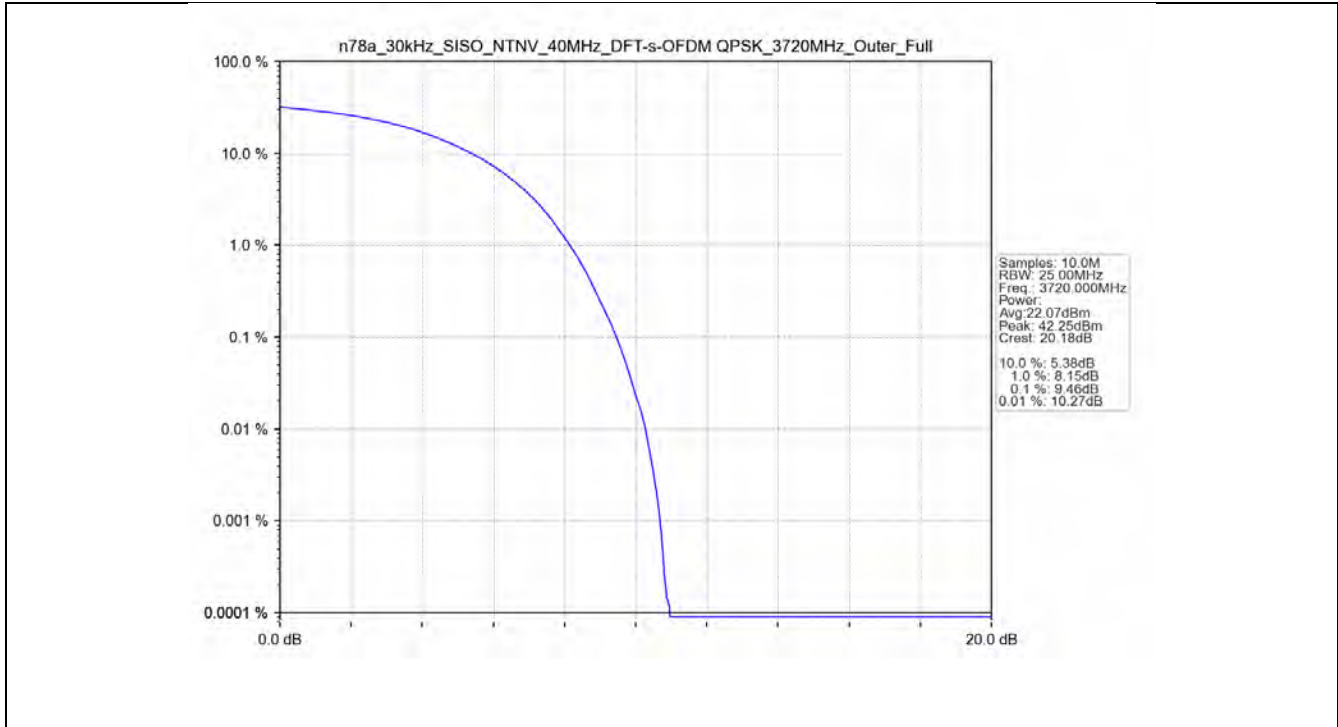


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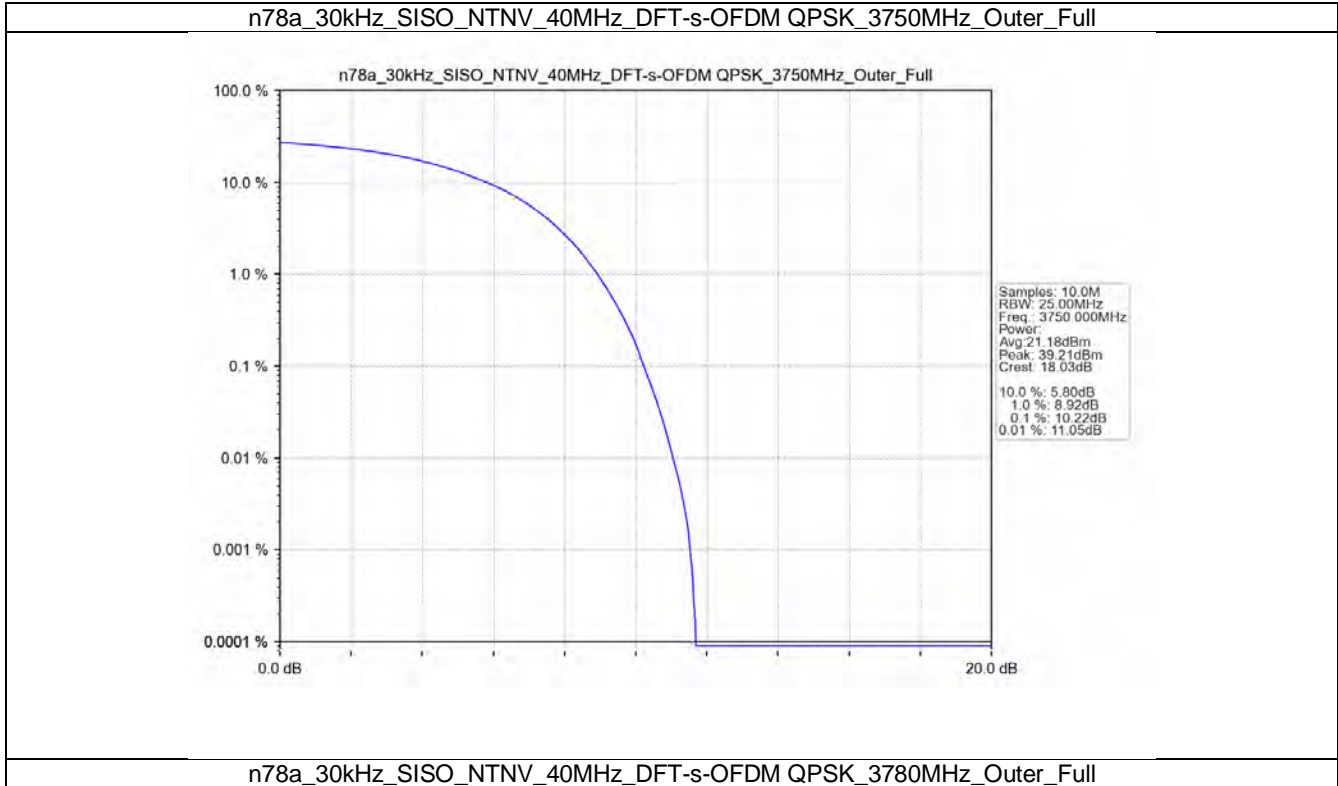


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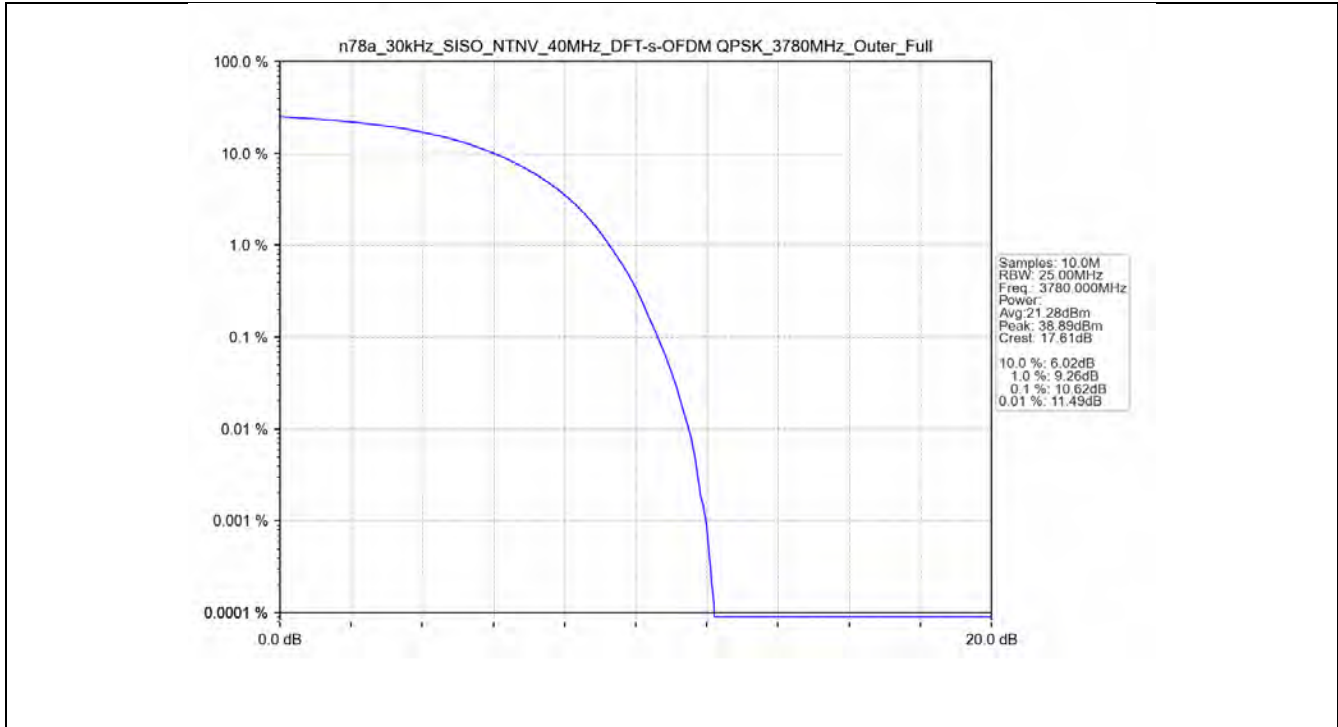


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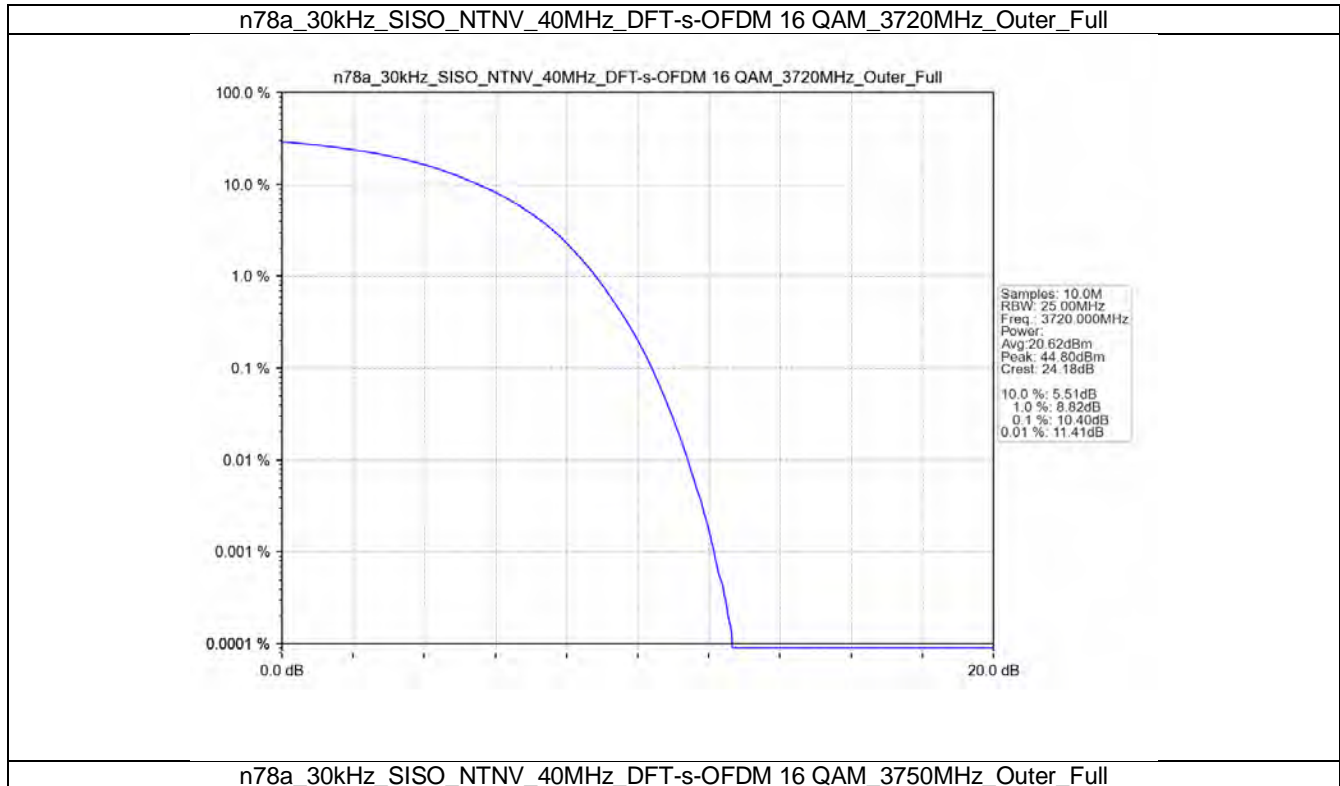


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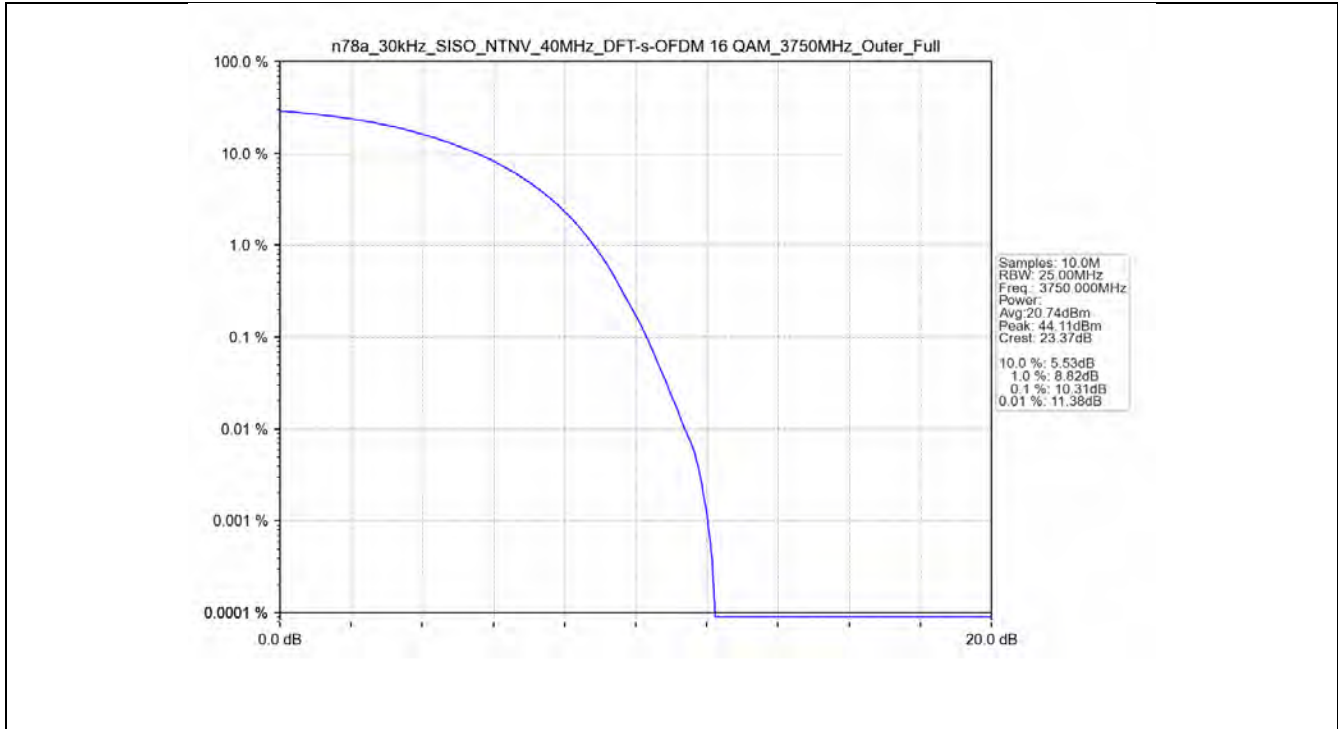


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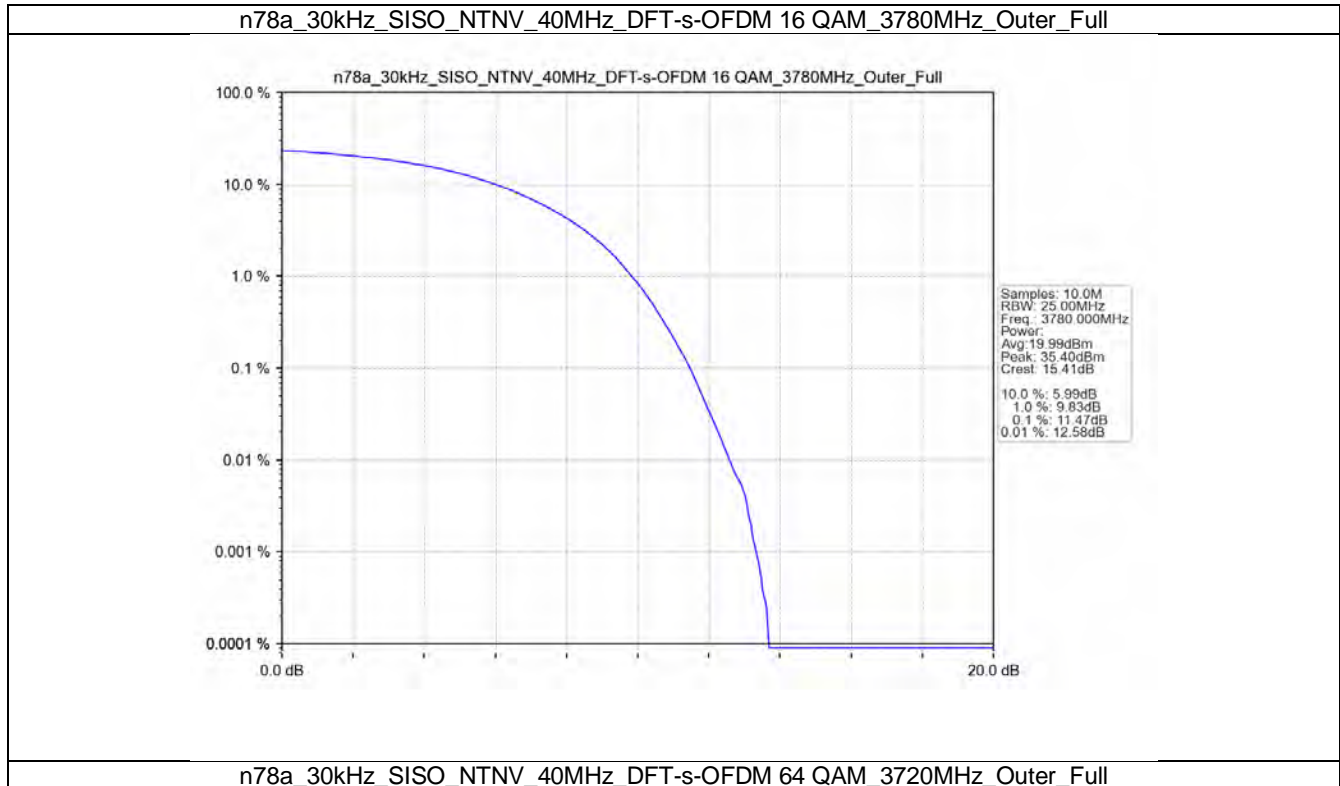


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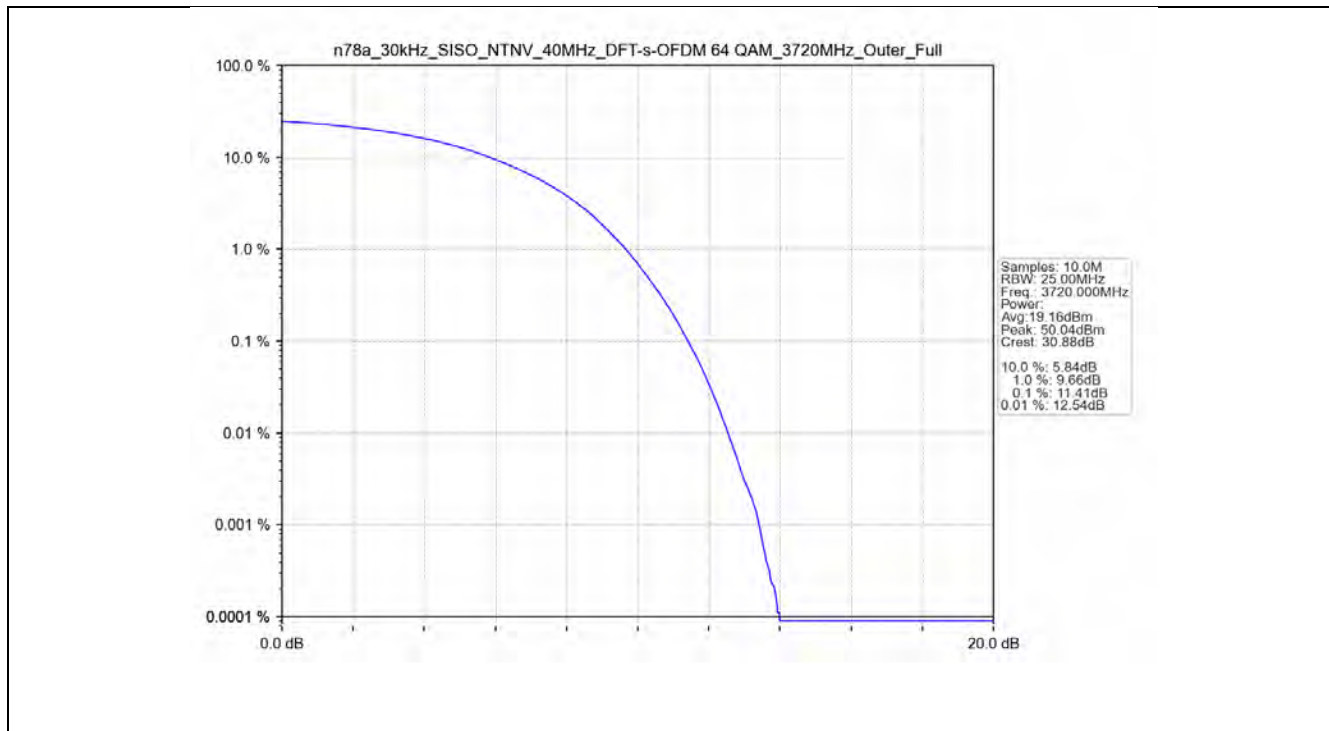
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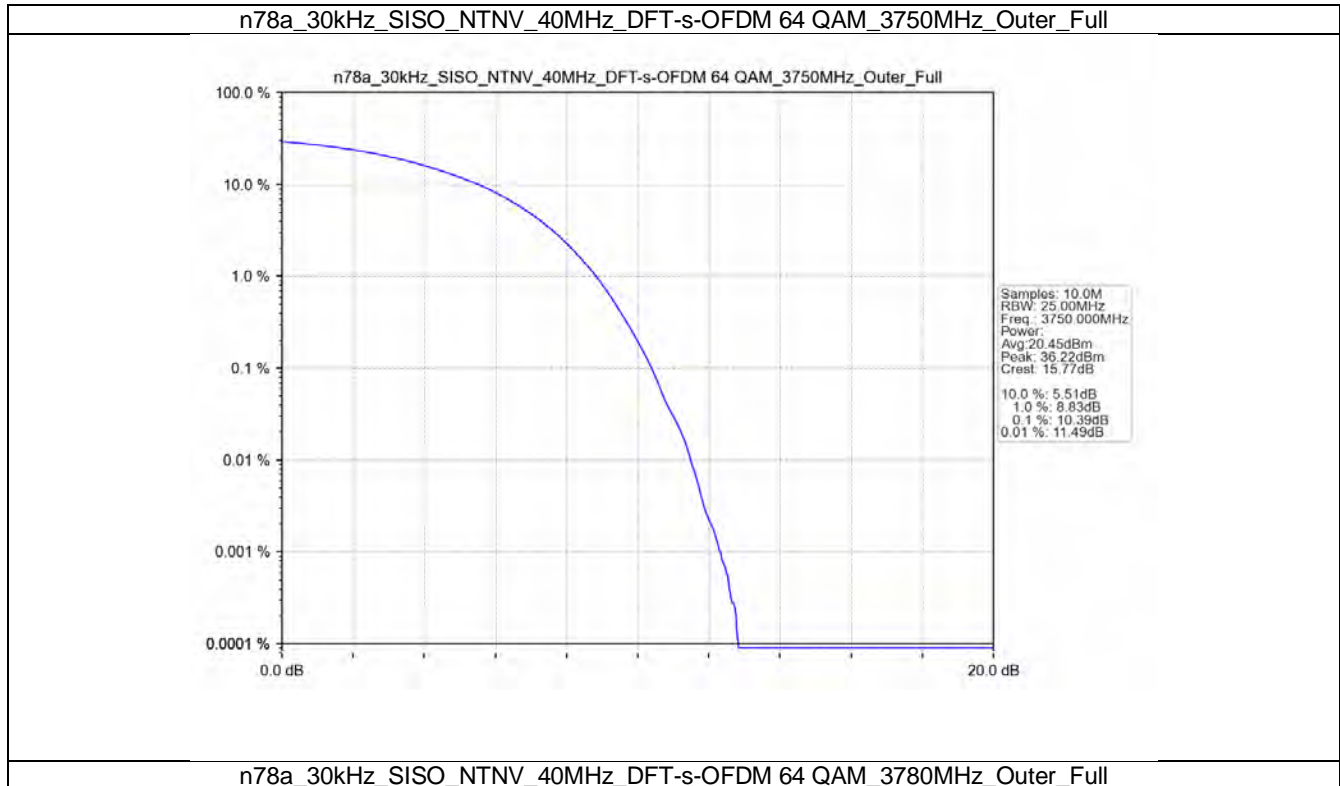


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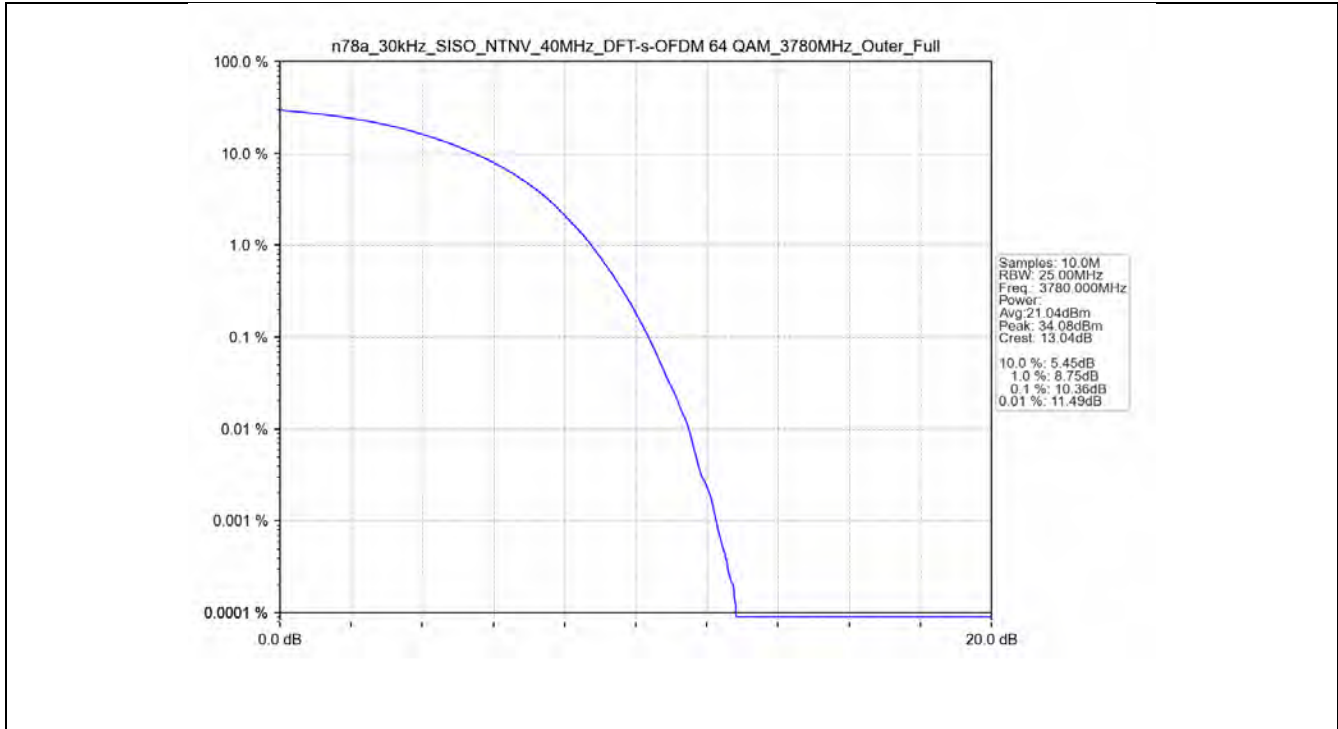


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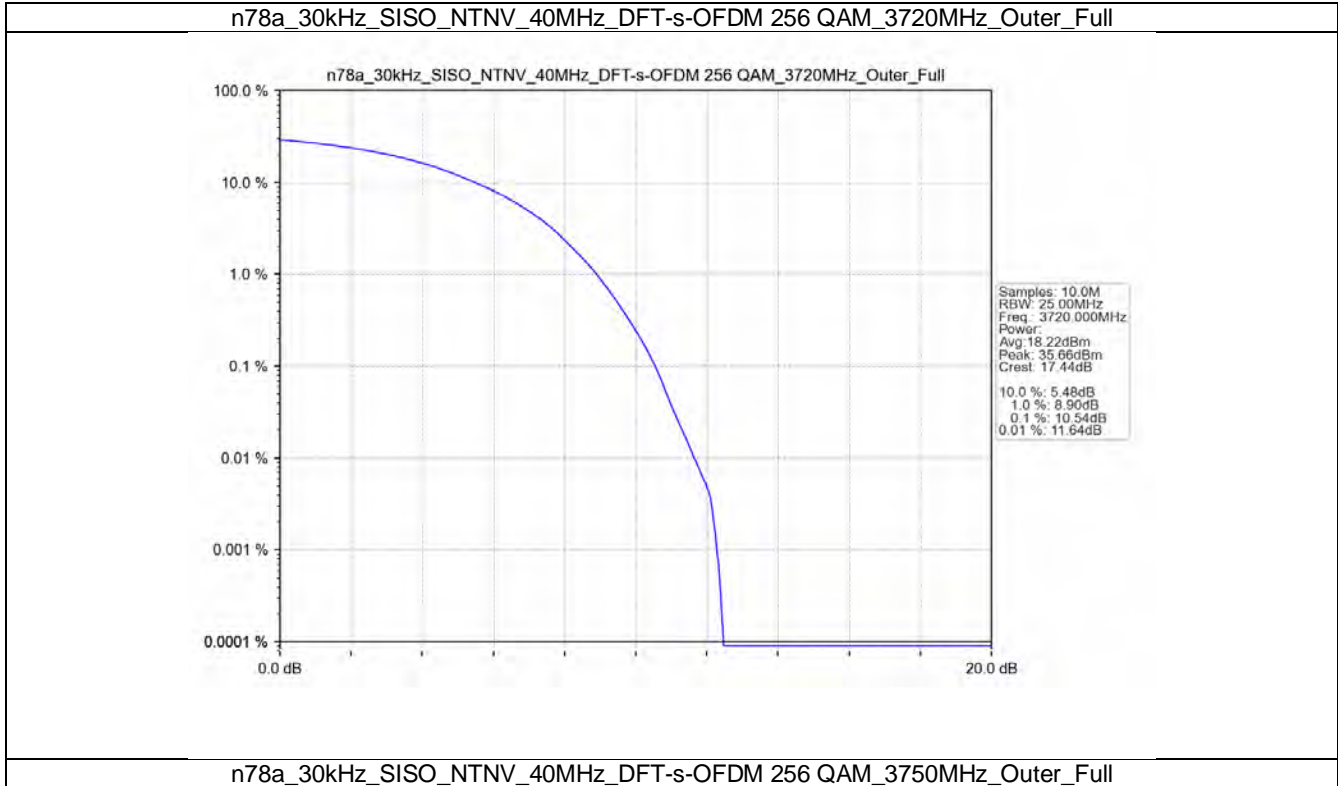


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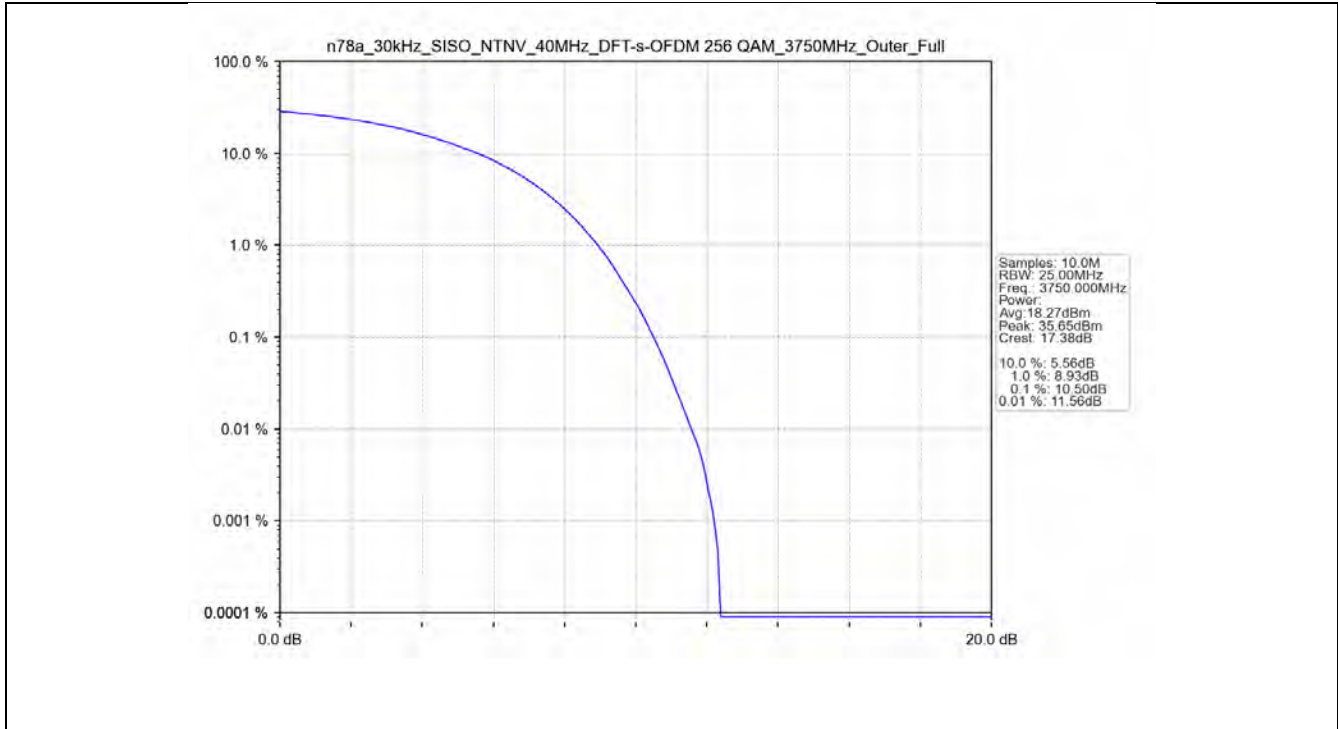


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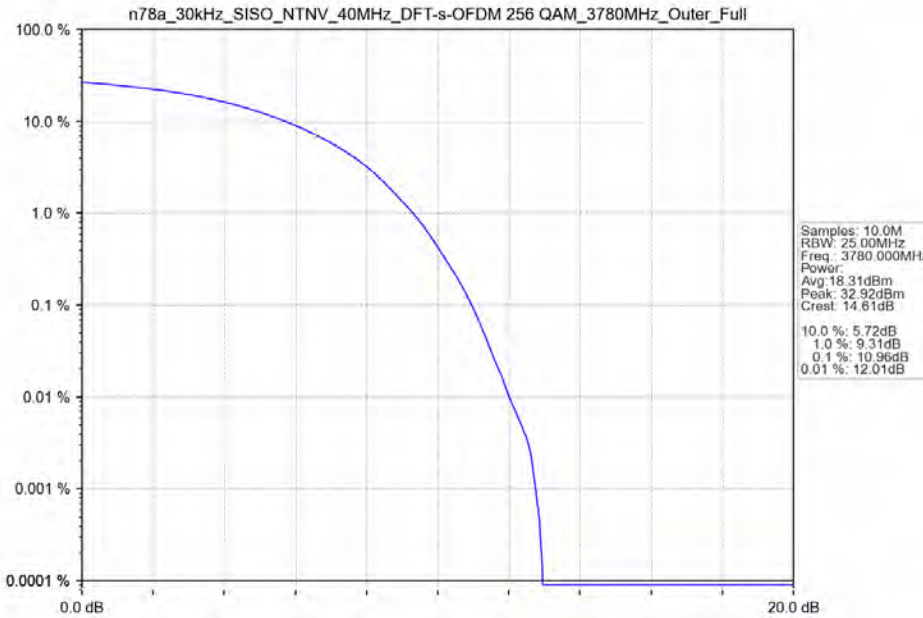
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n78a_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM_3780MHz_Outer_Full



n78a_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3720MHz_Outer_Full



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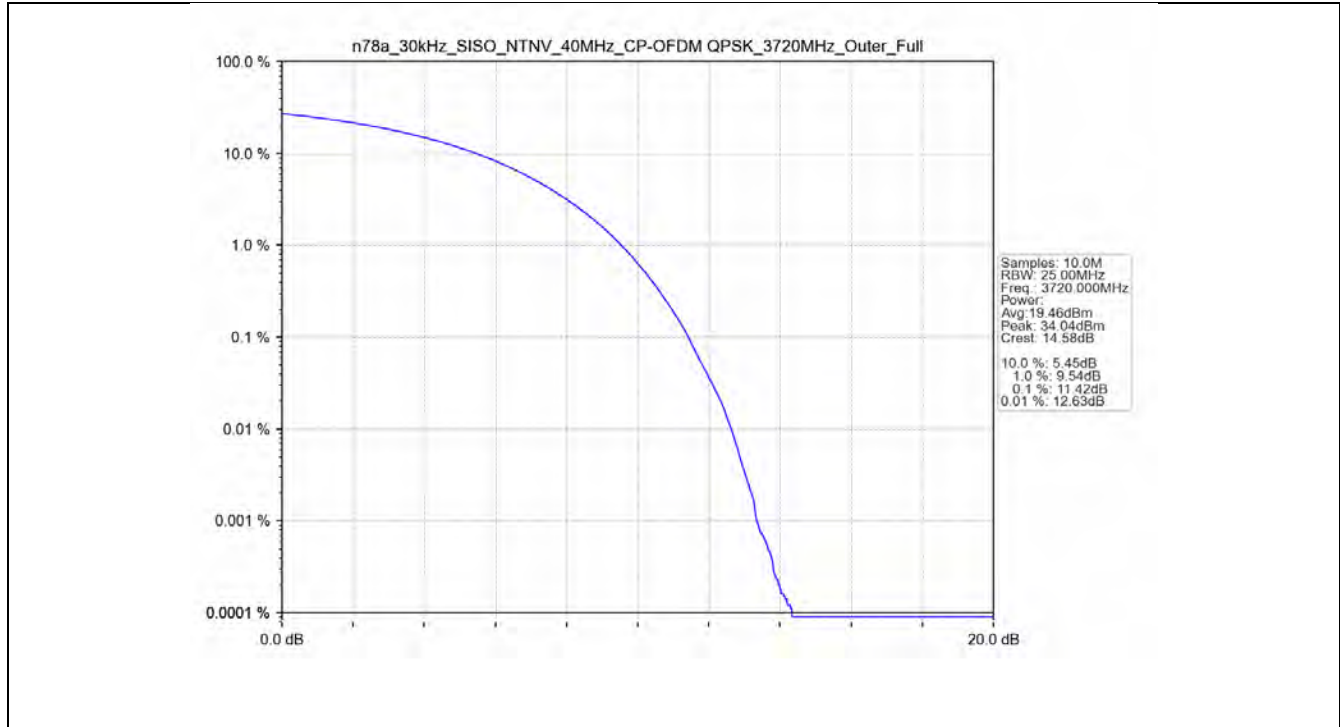


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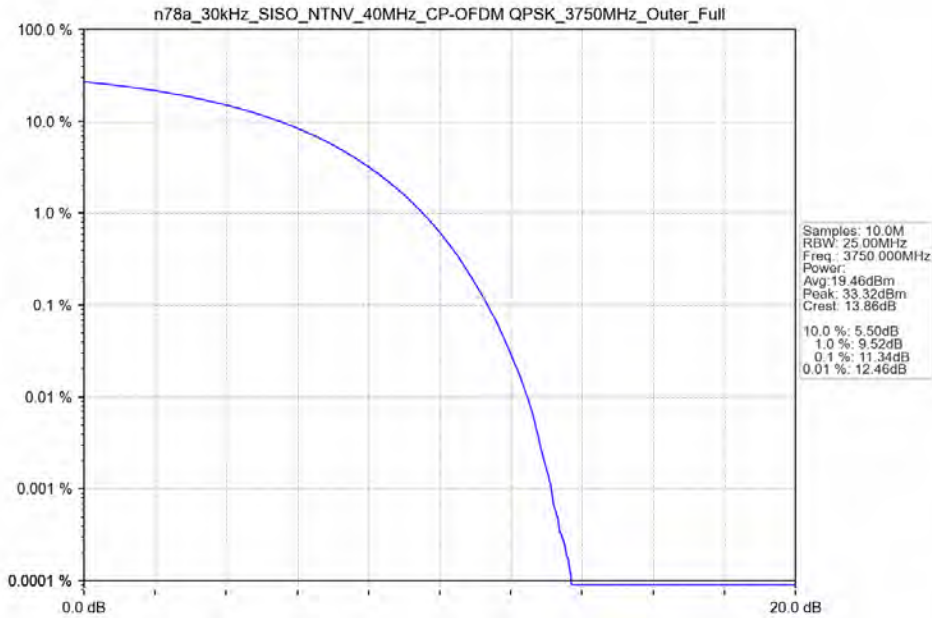
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n78a_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3750MHz_Outer_Full



n78a_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3780MHz_Outer_Full



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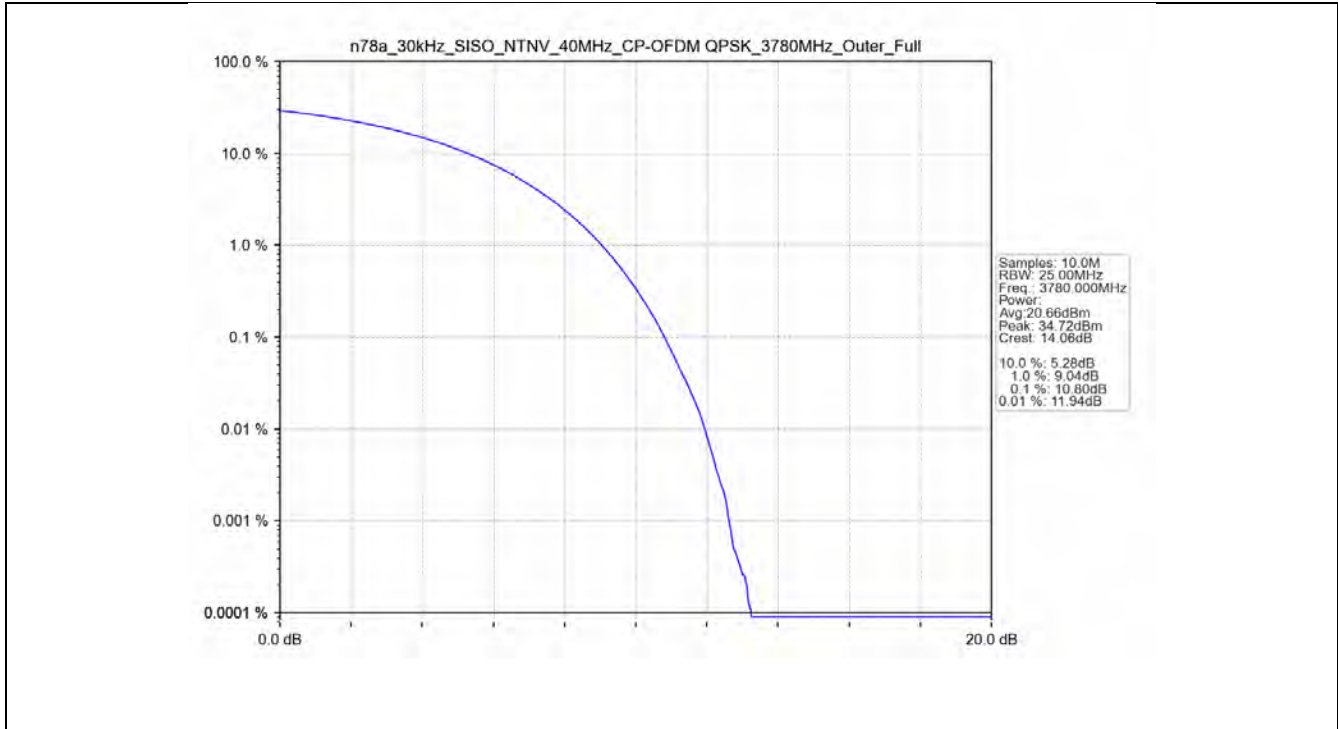


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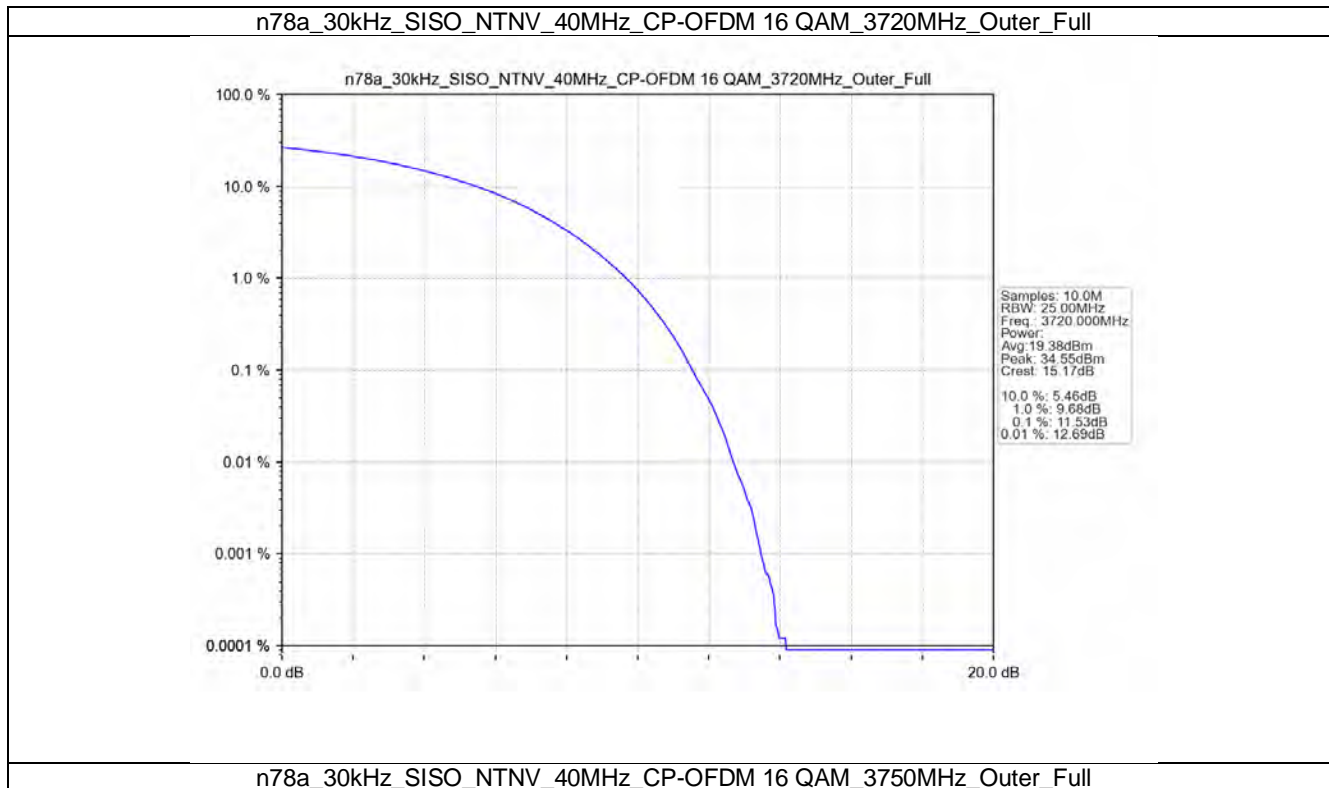
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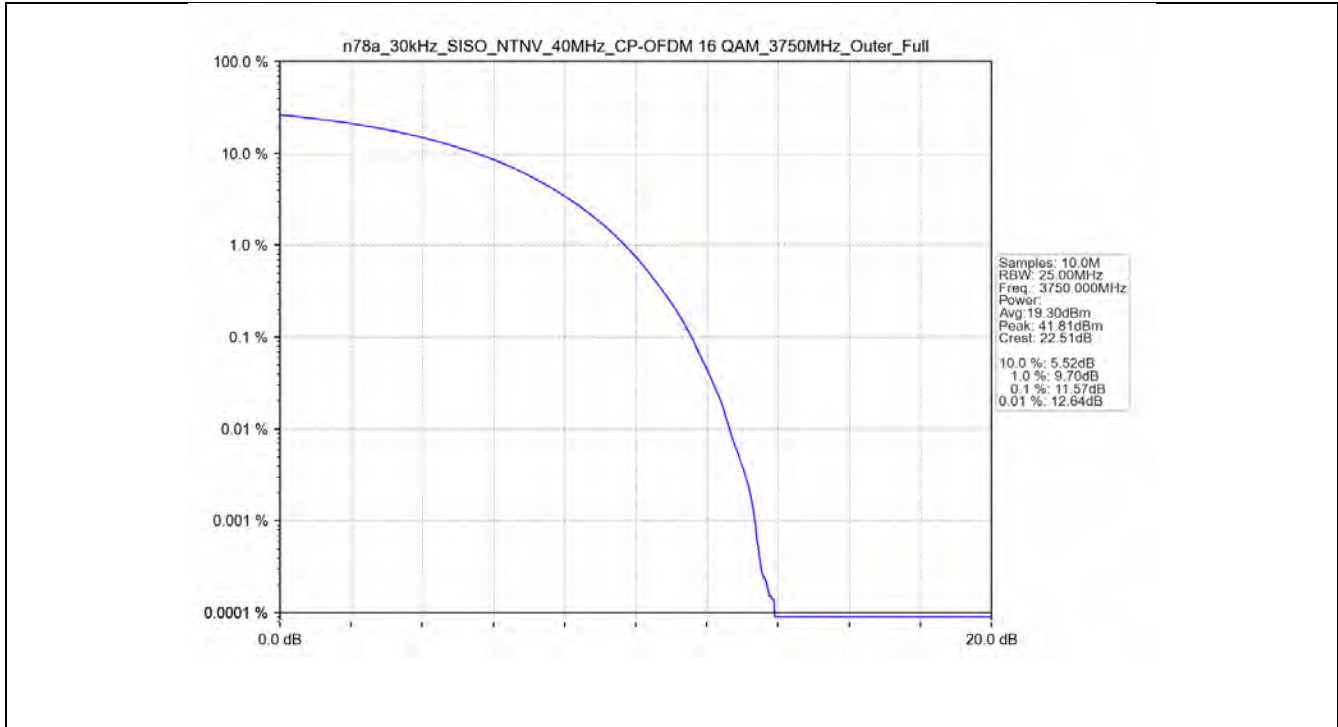


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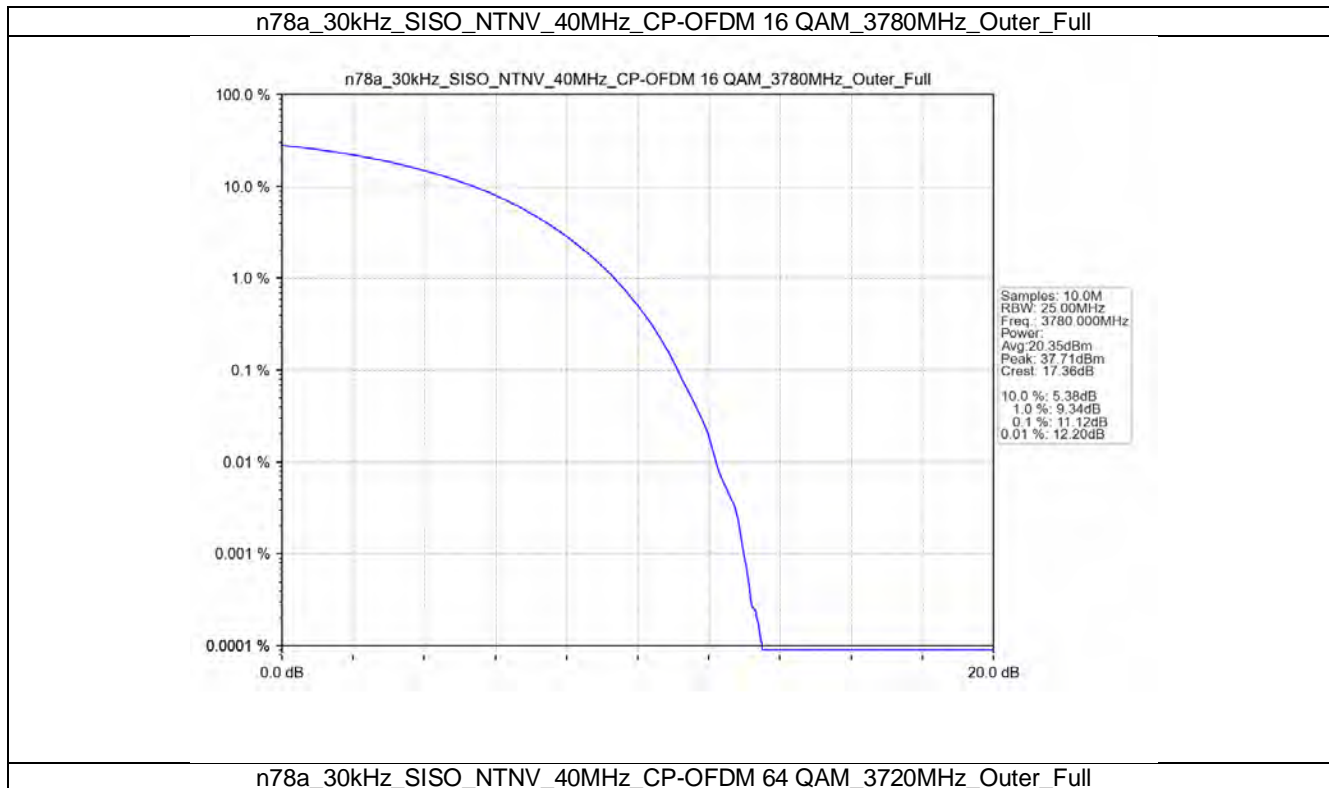
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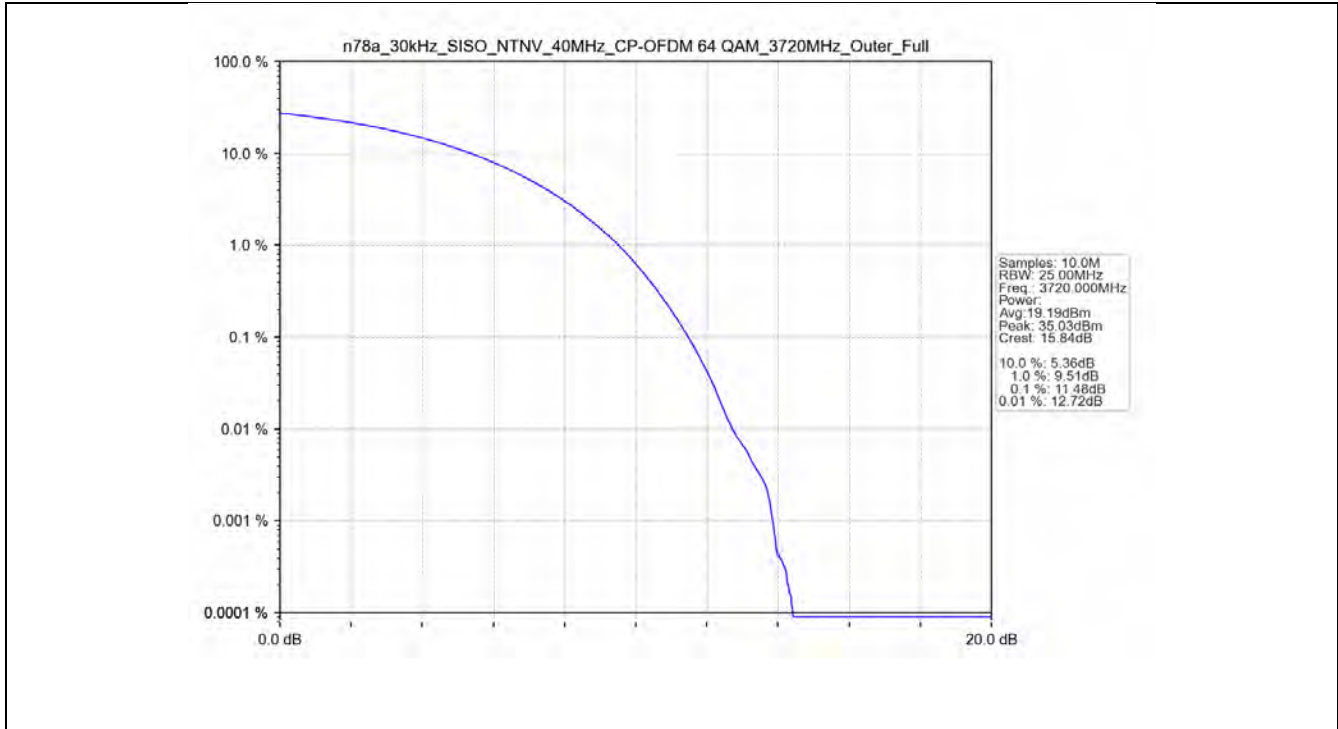


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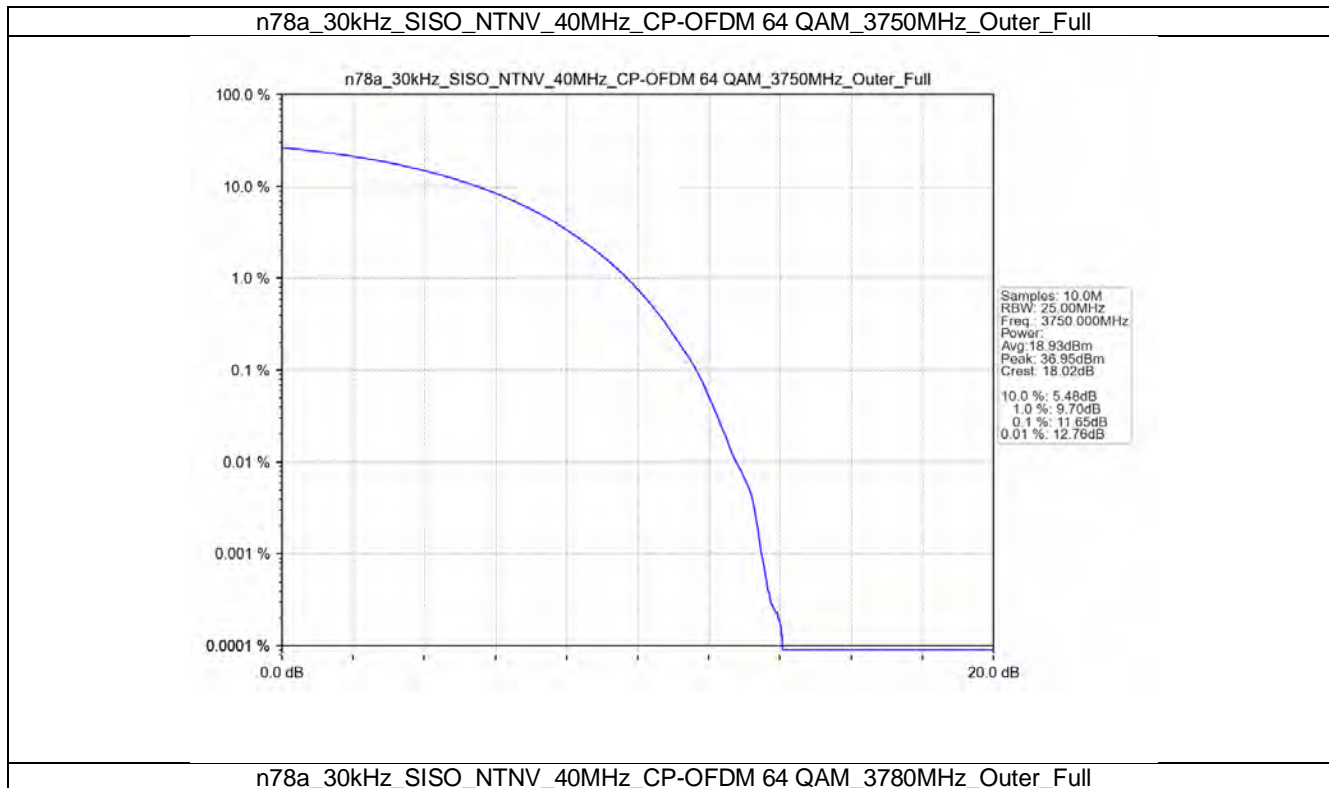
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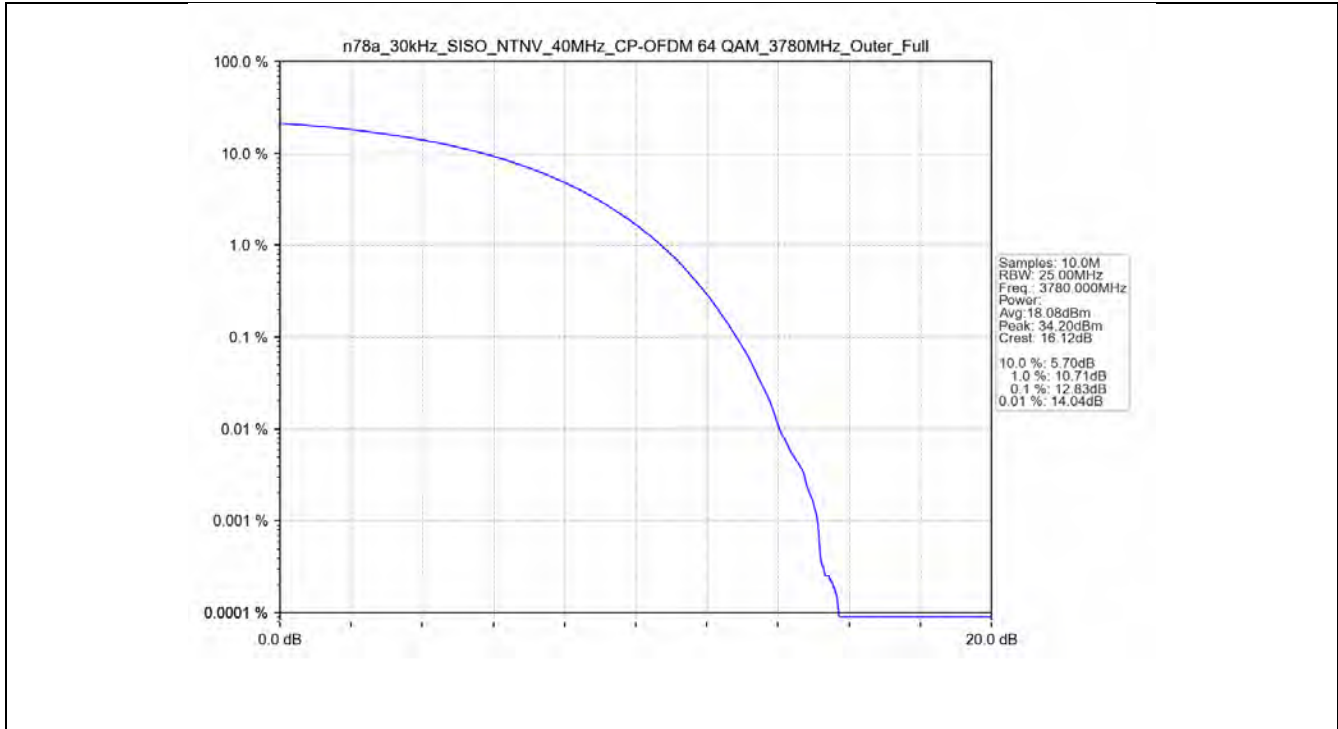


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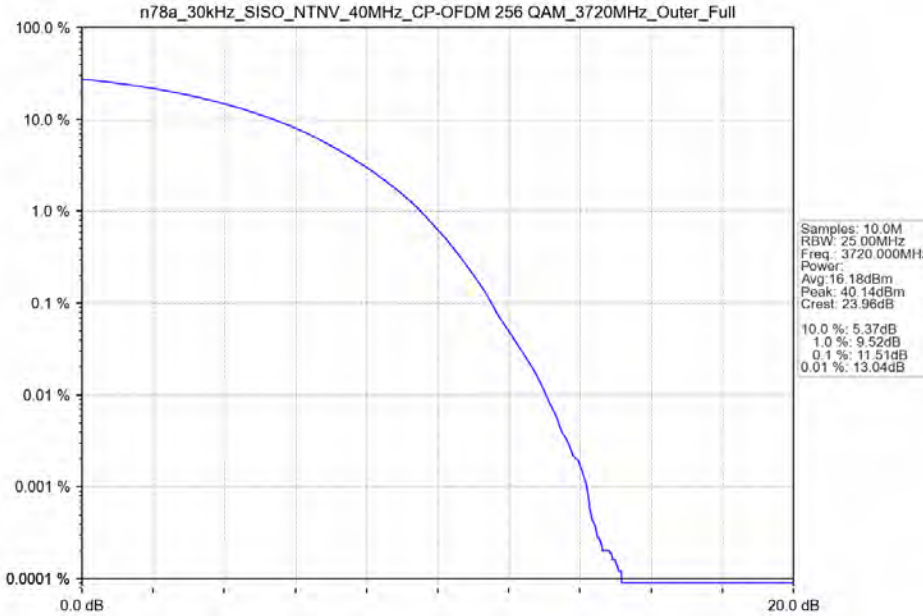
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n78a_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_3720MHz_Outer_Full



n78a_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_3750MHz_Outer_Full



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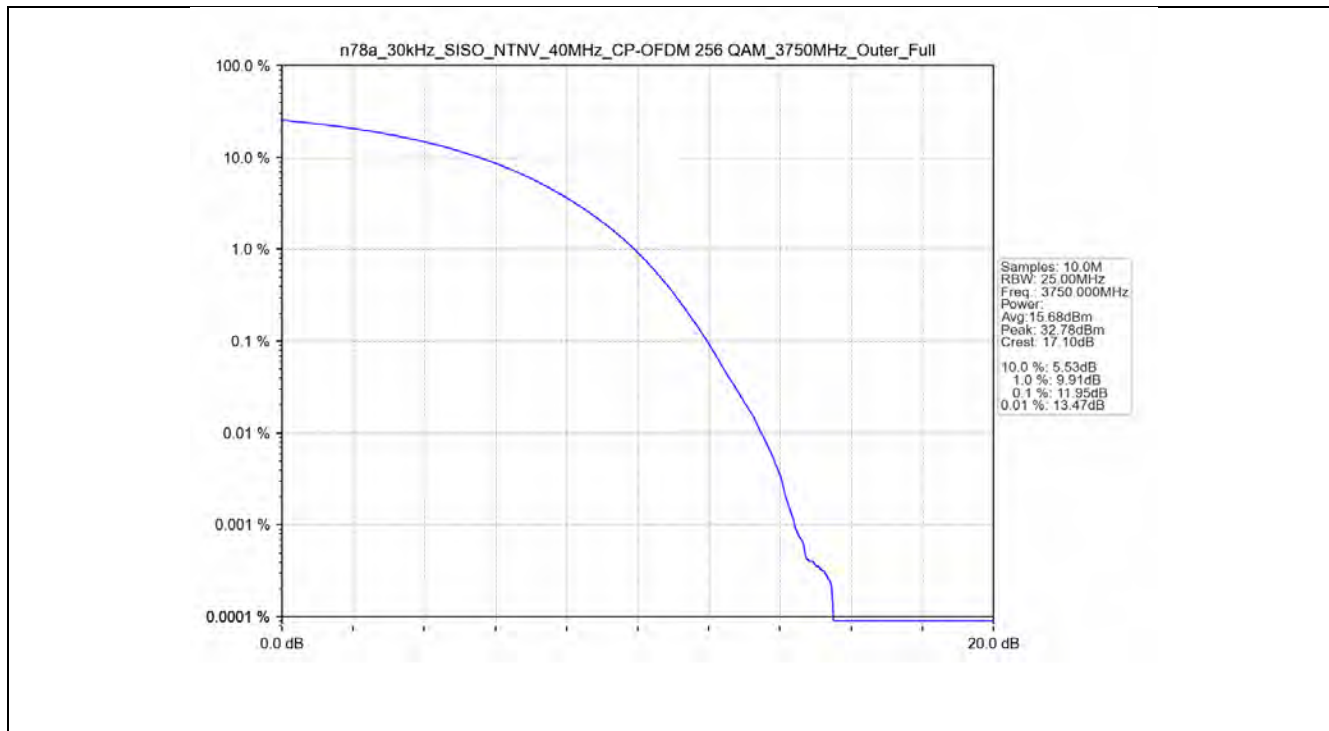
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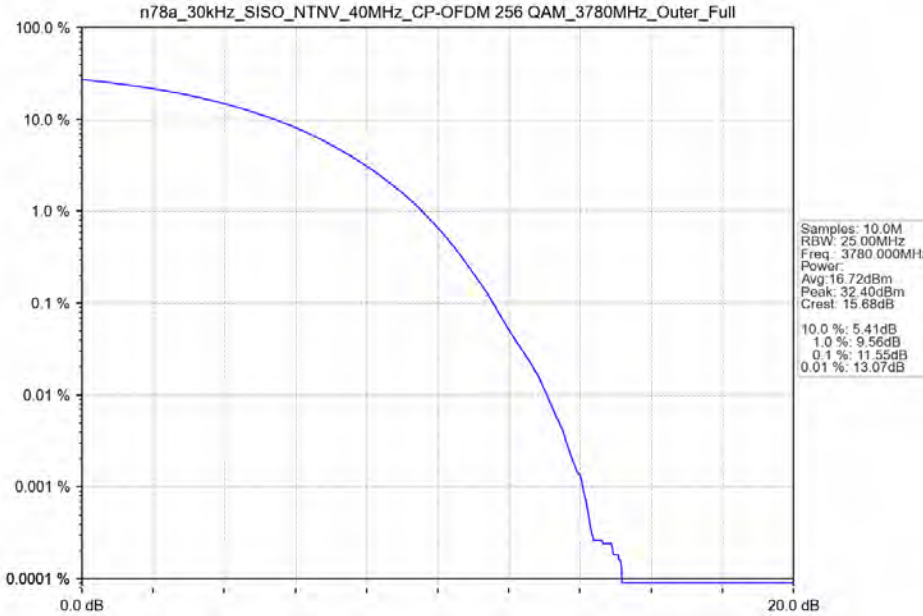
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4.4 30k_SISO_50MHz_NTNV

4.4.1 Test Result

5G NR n78a SCS=30kHz SISO 50MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3725.01	Outer_Full	10.40	/	/	<=13	Pass
	3750	Outer_Full	9.56	/	/	<=13	Pass
	3774.99	Outer_Full	9.61	/	/	<=13	Pass
DFT-s-OFDM QPSK	3725.01	Outer_Full	10.47	/	/	<=13	Pass
	3750	Outer_Full	11.05	/	/	<=13	Pass
	3774.99	Outer_Full	10.54	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3725.01	Outer_Full	10.55	/	/	<=13	Pass
	3750	Outer_Full	10.44	/	/	<=13	Pass
	3774.99	Outer_Full	10.71	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3725.01	Outer_Full	10.91	/	/	<=13	Pass
	3750	Outer_Full	11.01	/	/	<=13	Pass
	3774.99	Outer_Full	10.56	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3725.01	Outer_Full	11.52	/	/	<=13	Pass
	3750	Outer_Full	10.90	/	/	<=13	Pass
	3774.99	Outer_Full	10.74	/	/	<=13	Pass
CP-OFDM QPSK	3725.01	Outer_Full	12.18	/	/	<=13	Pass
	3750	Outer_Full	12.29	/	/	<=13	Pass
	3774.99	Outer_Full	11.34	/	/	<=13	Pass
CP-OFDM 16 QAM	3725.01	Outer_Full	11.86	/	/	<=13	Pass
	3750	Outer_Full	10.94	/	/	<=13	Pass
	3774.99	Outer_Full	12.53	/	/	<=13	Pass
CP-OFDM 64 QAM	3725.01	Outer_Full	11.32	/	/	<=13	Pass
	3750	Outer_Full	11.70	/	/	<=13	Pass
	3774.99	Outer_Full	11.78	/	/	<=13	Pass
CP-OFDM 256 QAM	3725.01	Outer_Full	12.14	/	/	<=13	Pass
	3750	Outer_Full	12.21	/	/	<=13	Pass
	3774.99	Outer_Full	12.28	/	/	<=13	Pass



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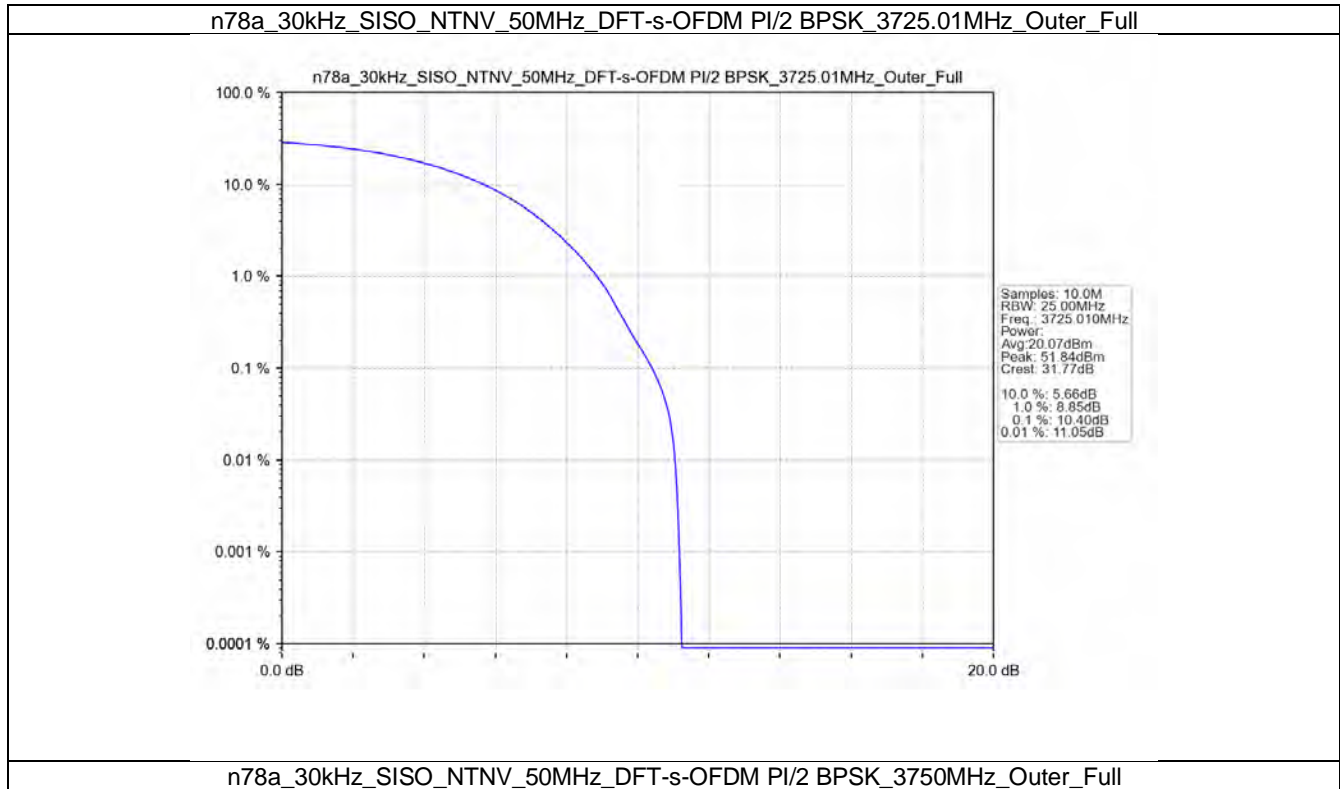
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4.4.2 Test Graph



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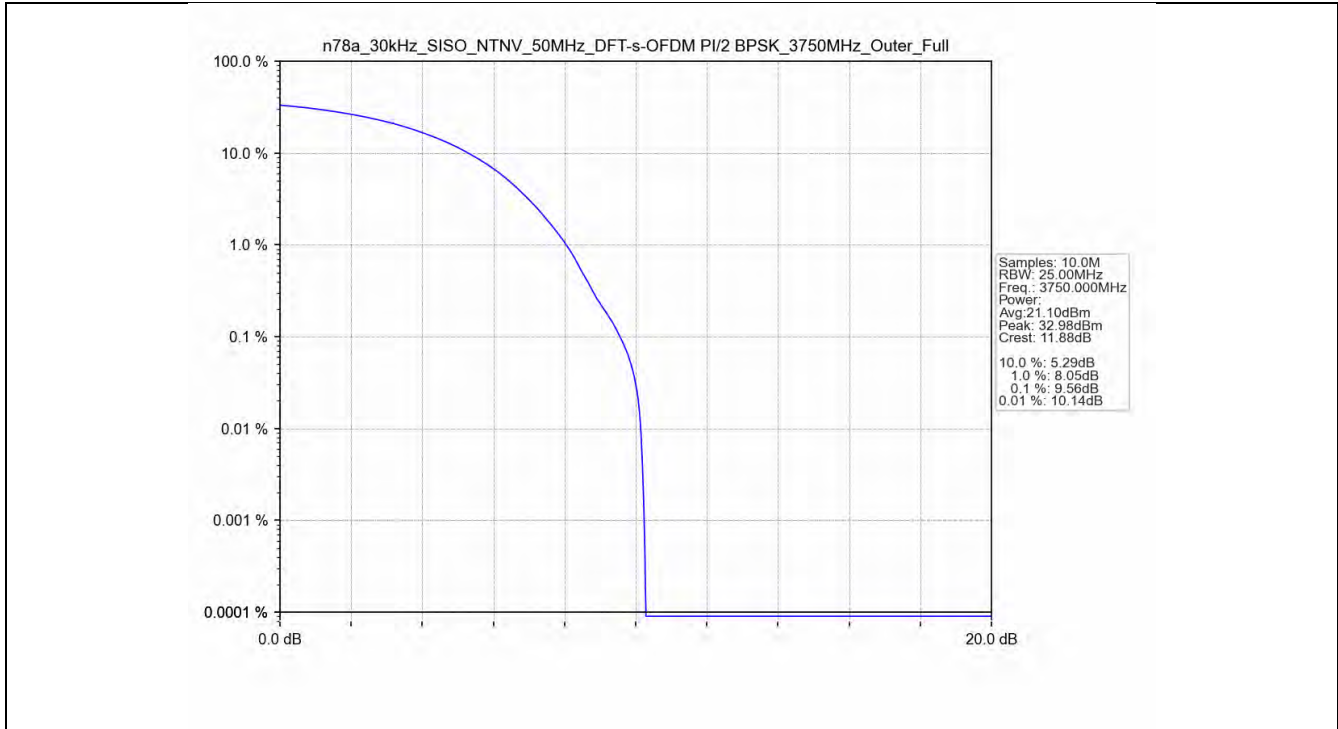


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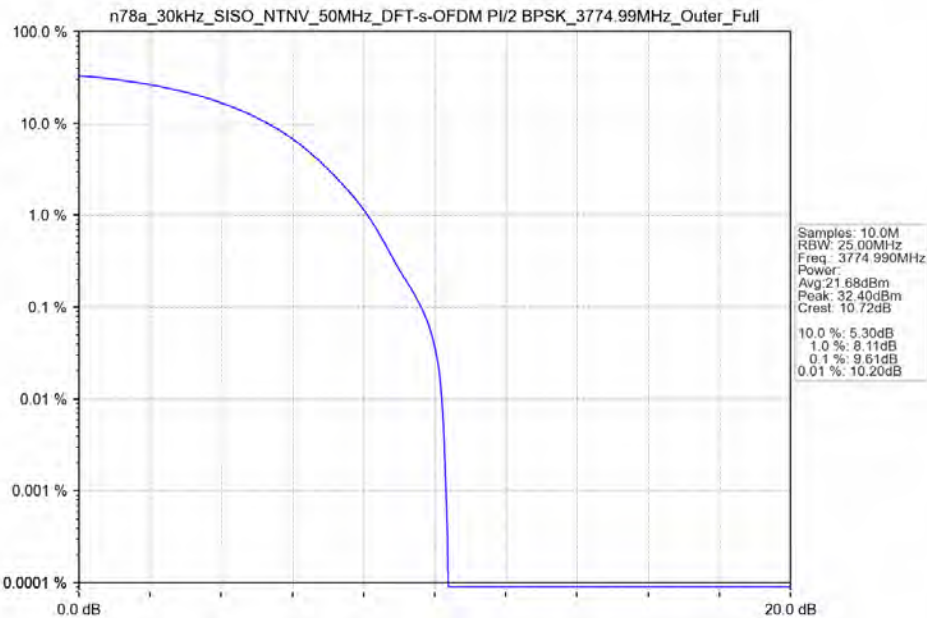
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n78a_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM PI/2 BPSK_3774.99MHz_Outer_Full



n78a_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM QPSK_3725.01MHz_Outer_Full



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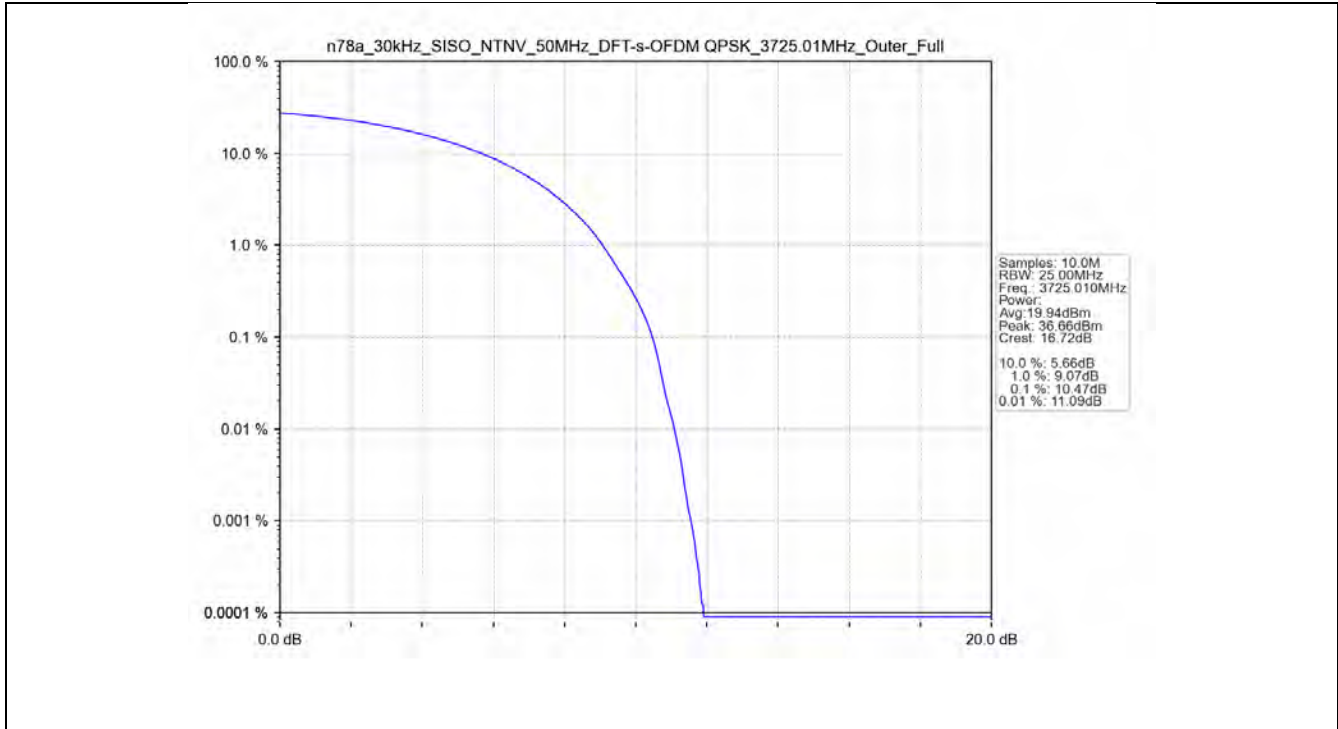


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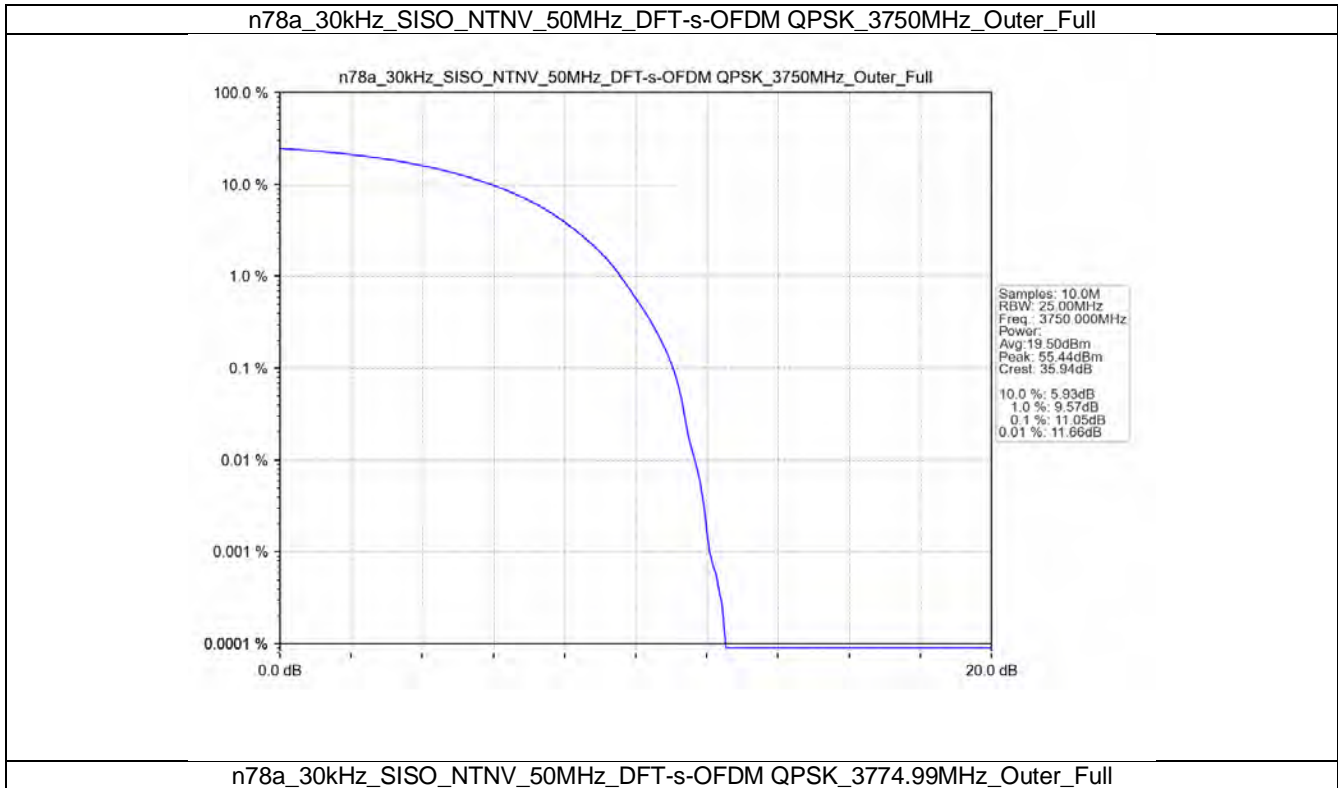


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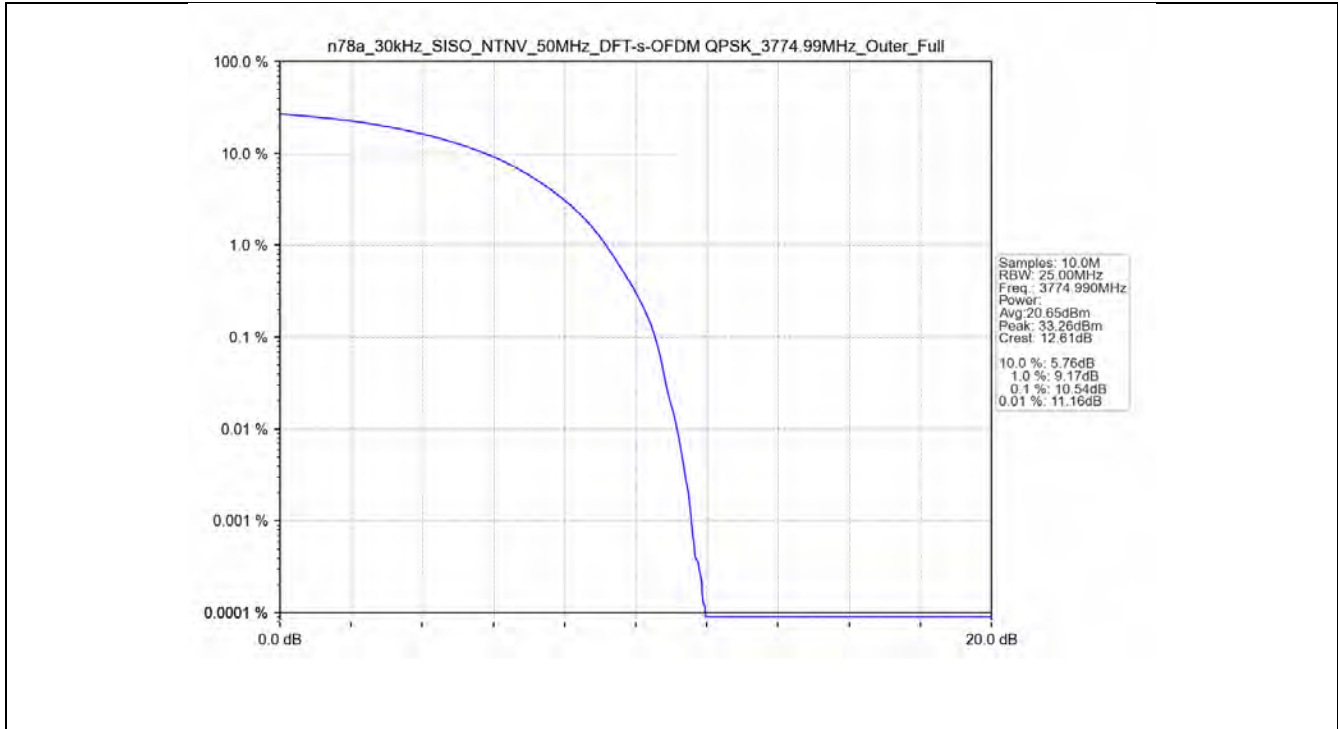


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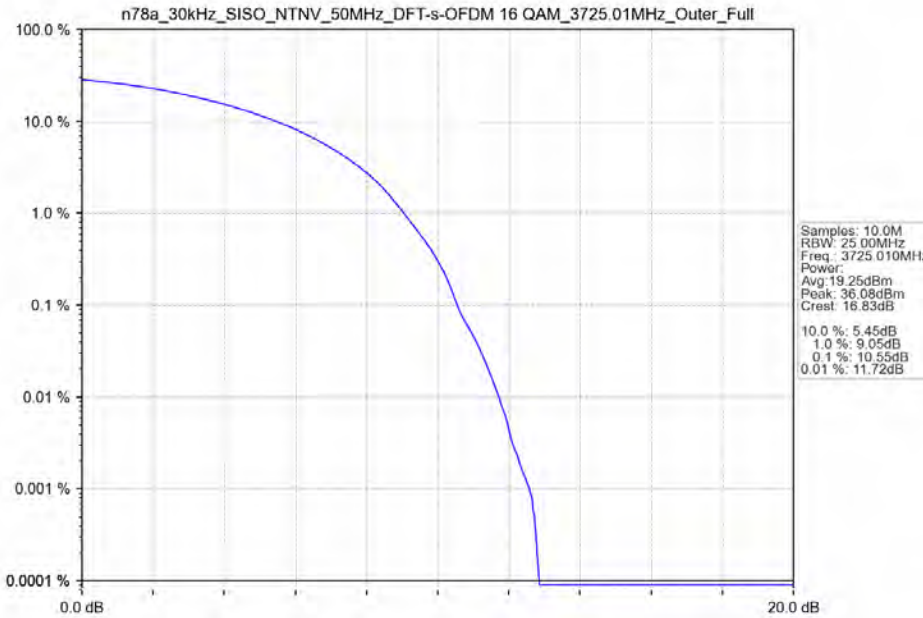
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n78a_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_16_QAM_3725.01MHz_Outer_Full



n78a_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_16_QAM_3750MHz_Outer_Full



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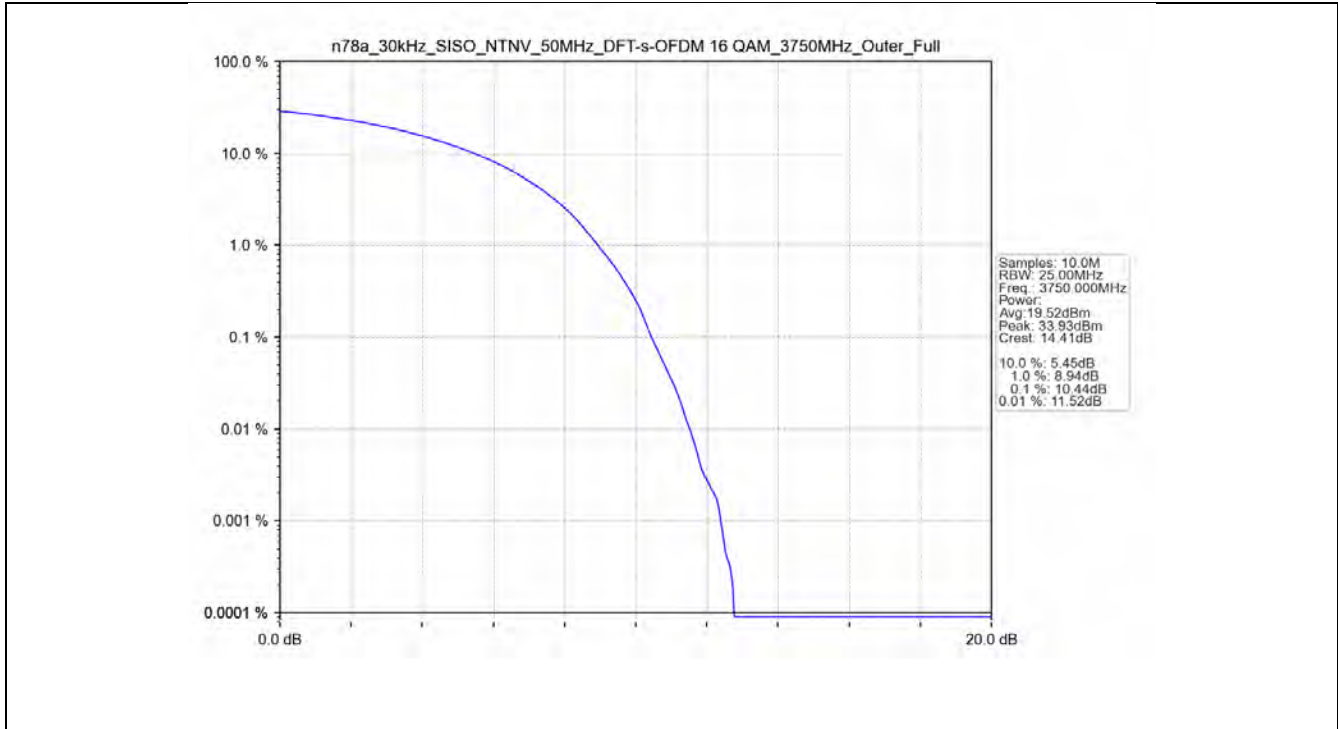


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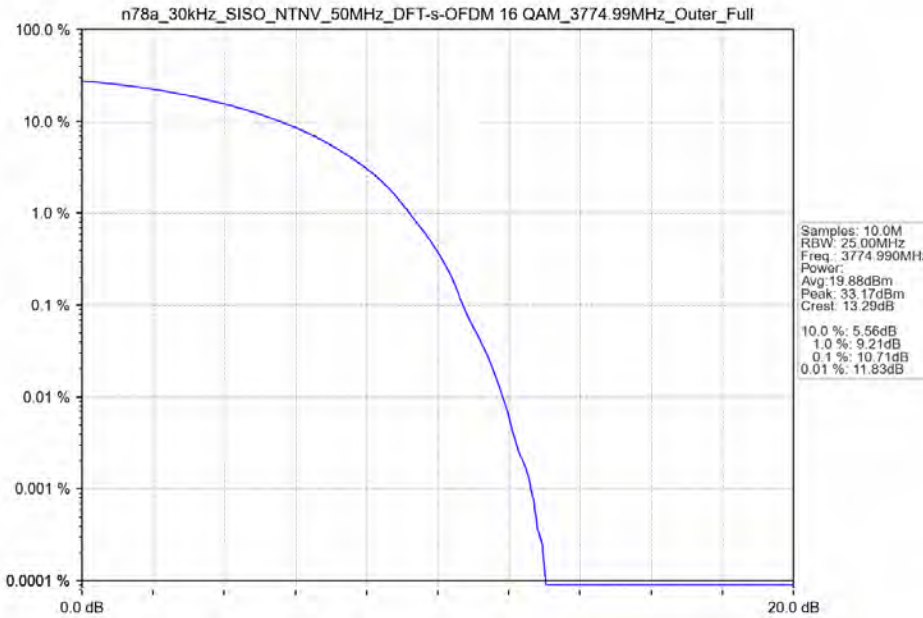
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n78a_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 16 QAM_3774.99MHz_Outer_Full



n78a_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 64 QAM_3725.01MHz_Outer_Full



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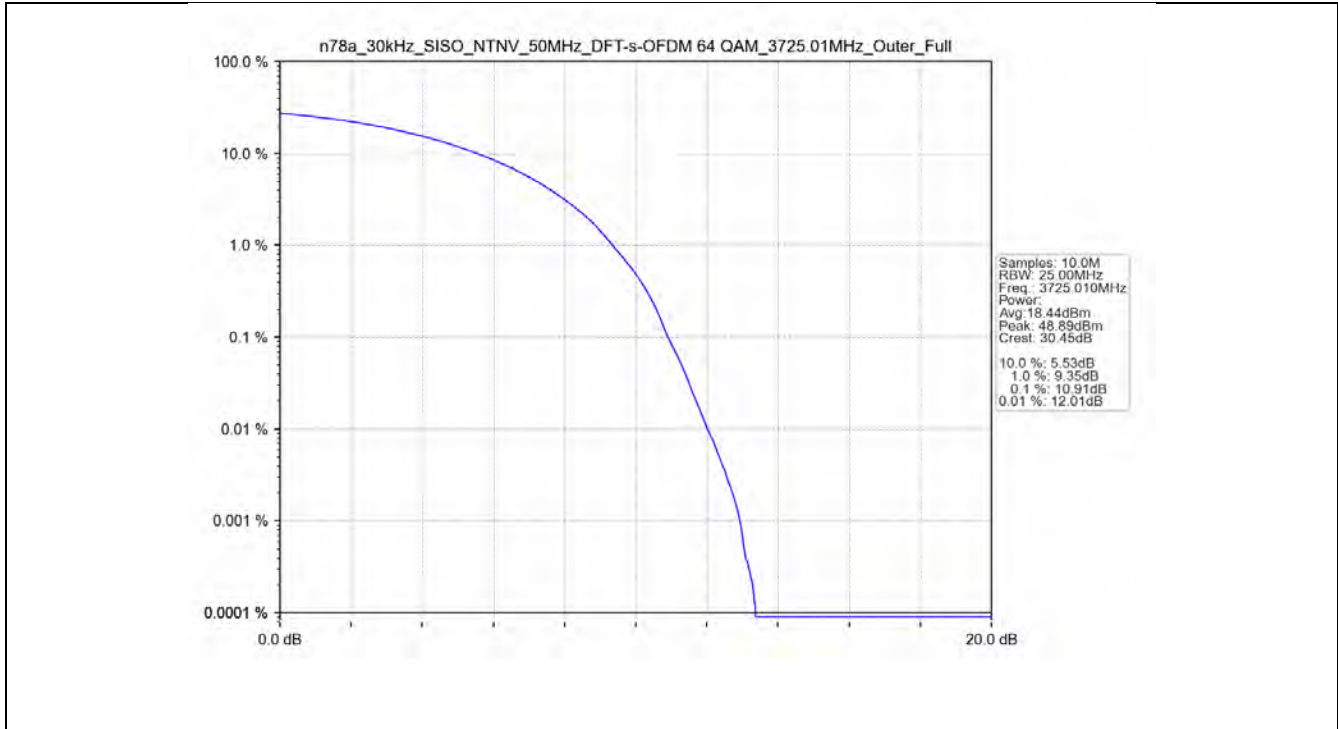


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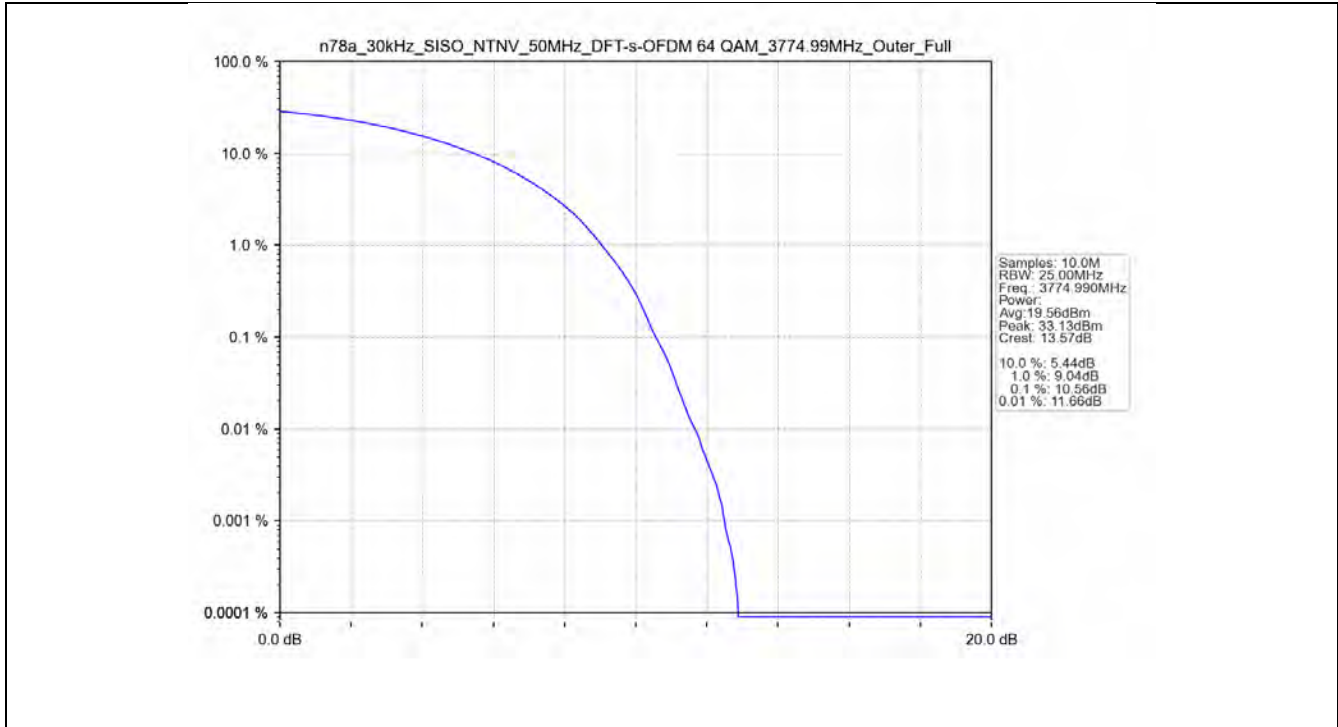


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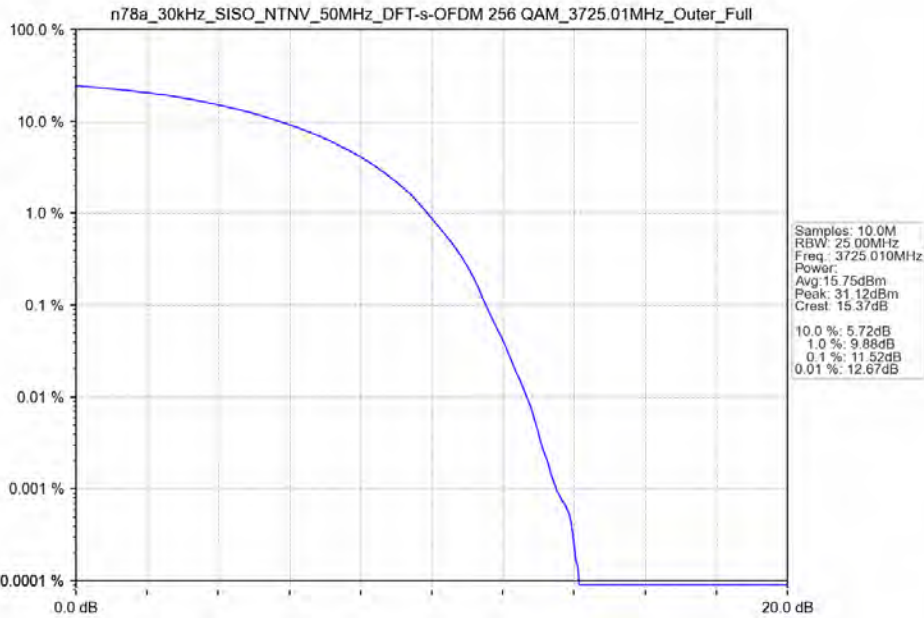
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n78a_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 256 QAM_3725.01MHz_Outer_Full



n78a_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 256 QAM_3750MHz_Outer_Full



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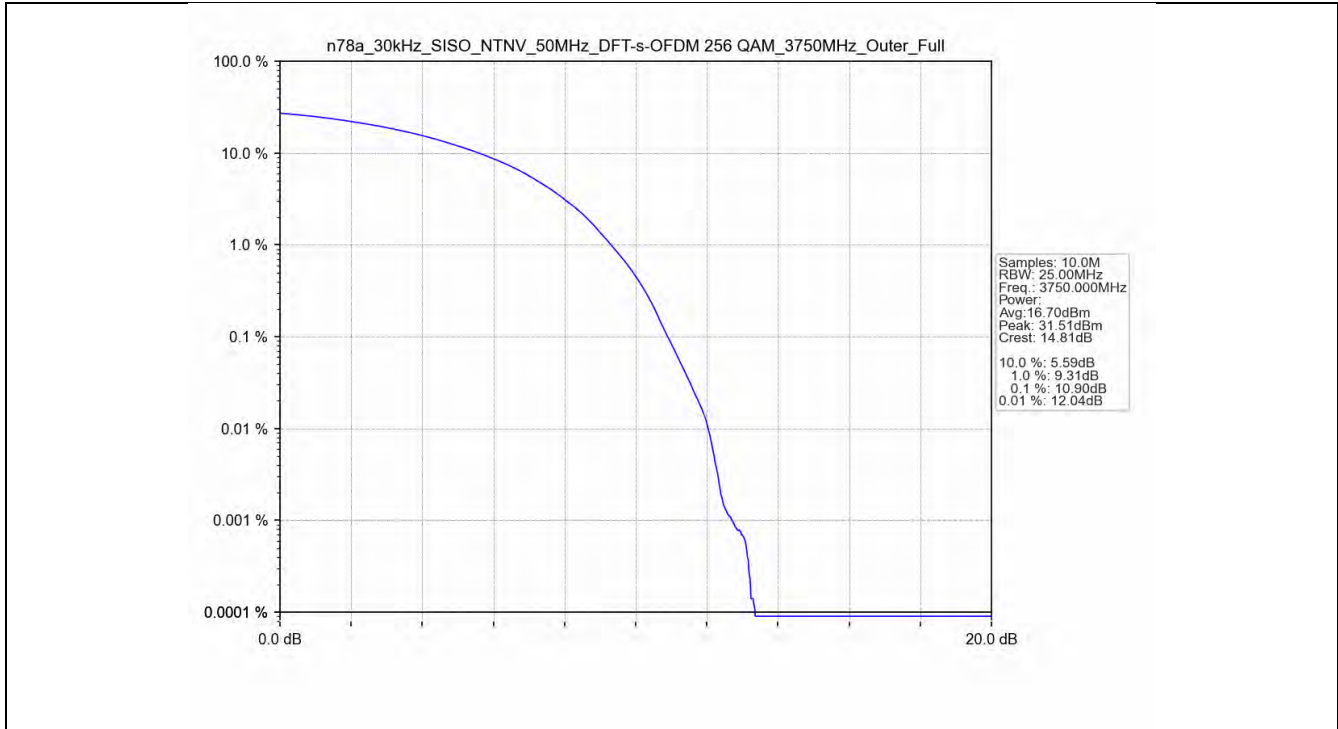


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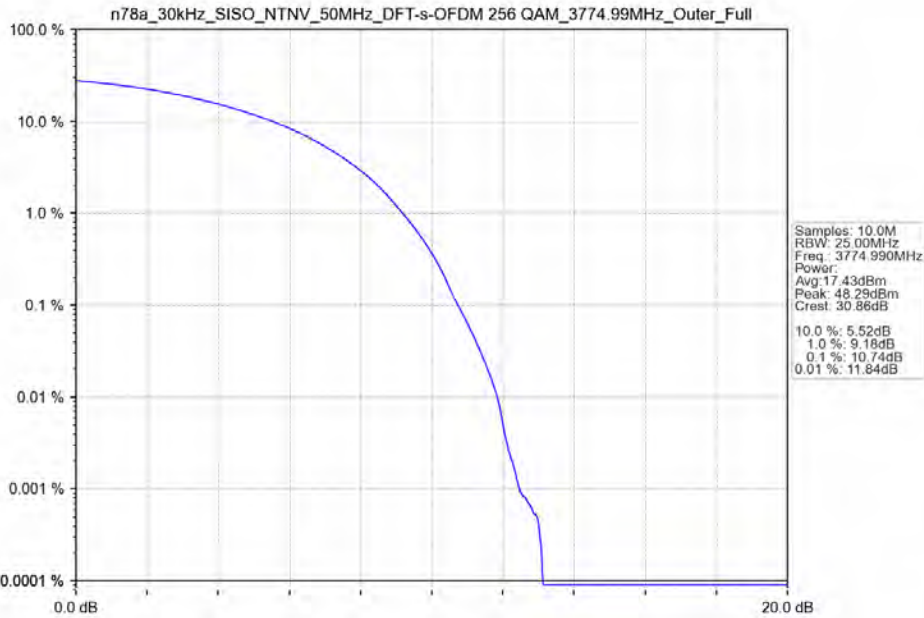
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n78a_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 256 QAM_3774.99MHz_Outer_Full



n78a_30kHz_SISO_NTNV_50MHz_CP-OFDM QPSK_3725.01MHz_Outer_Full



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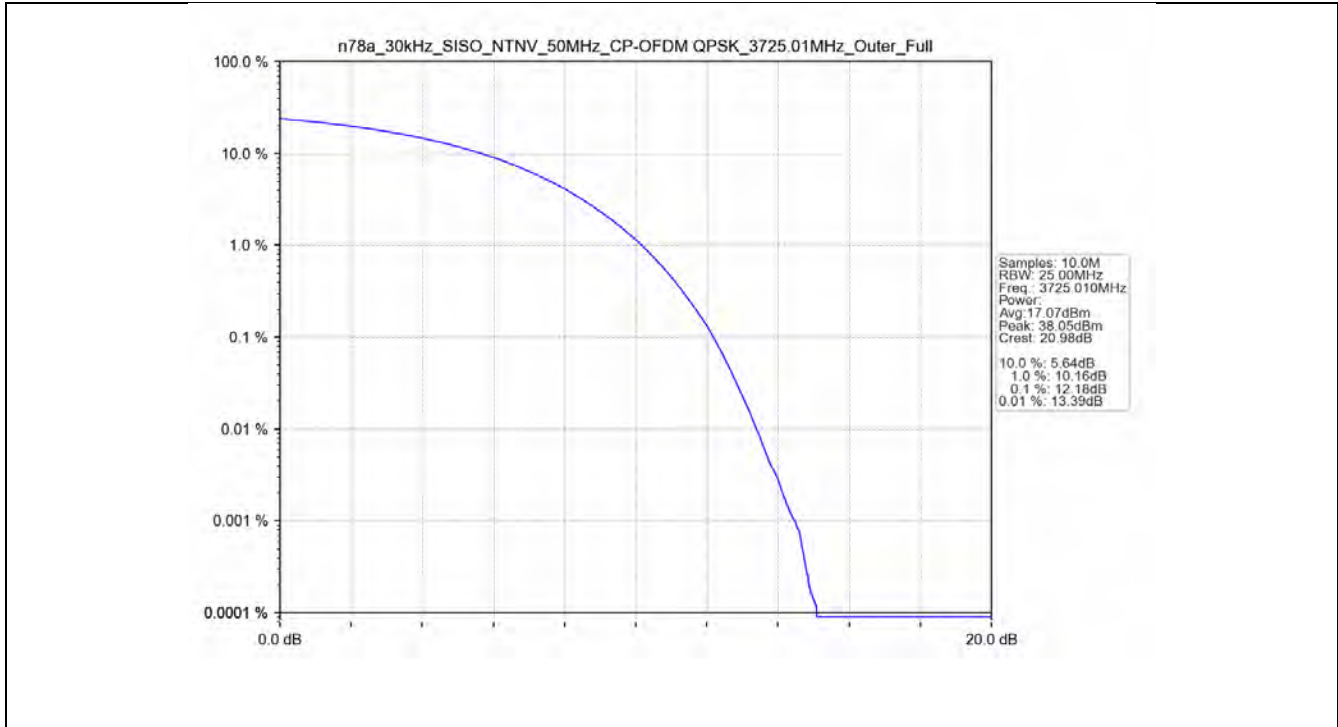


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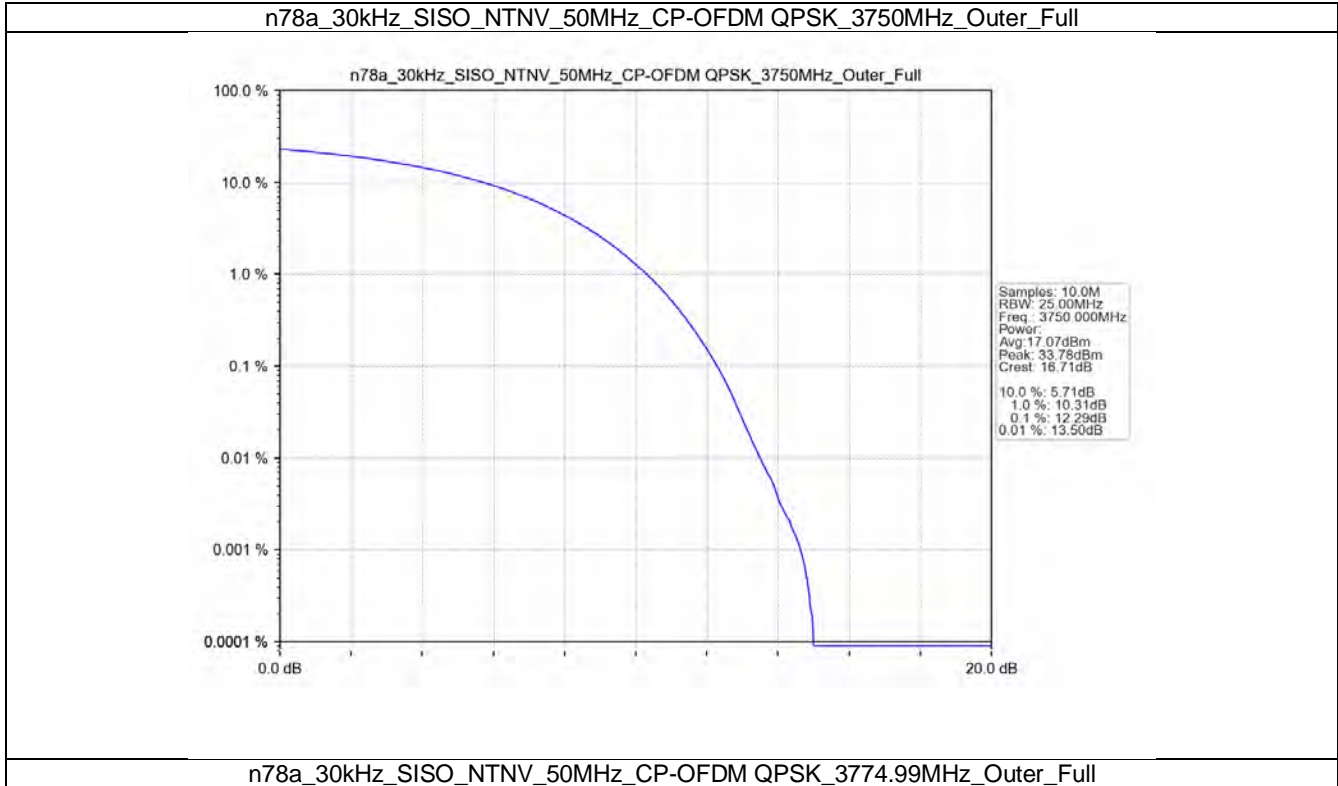


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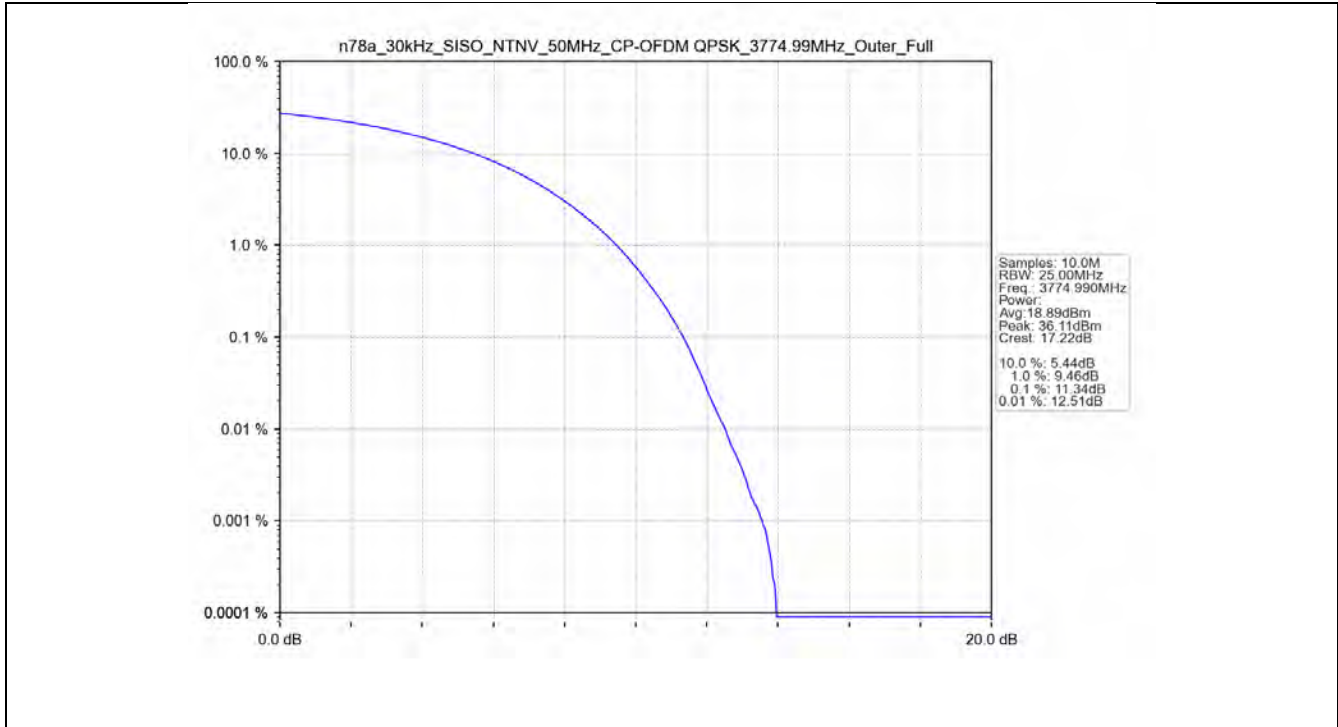


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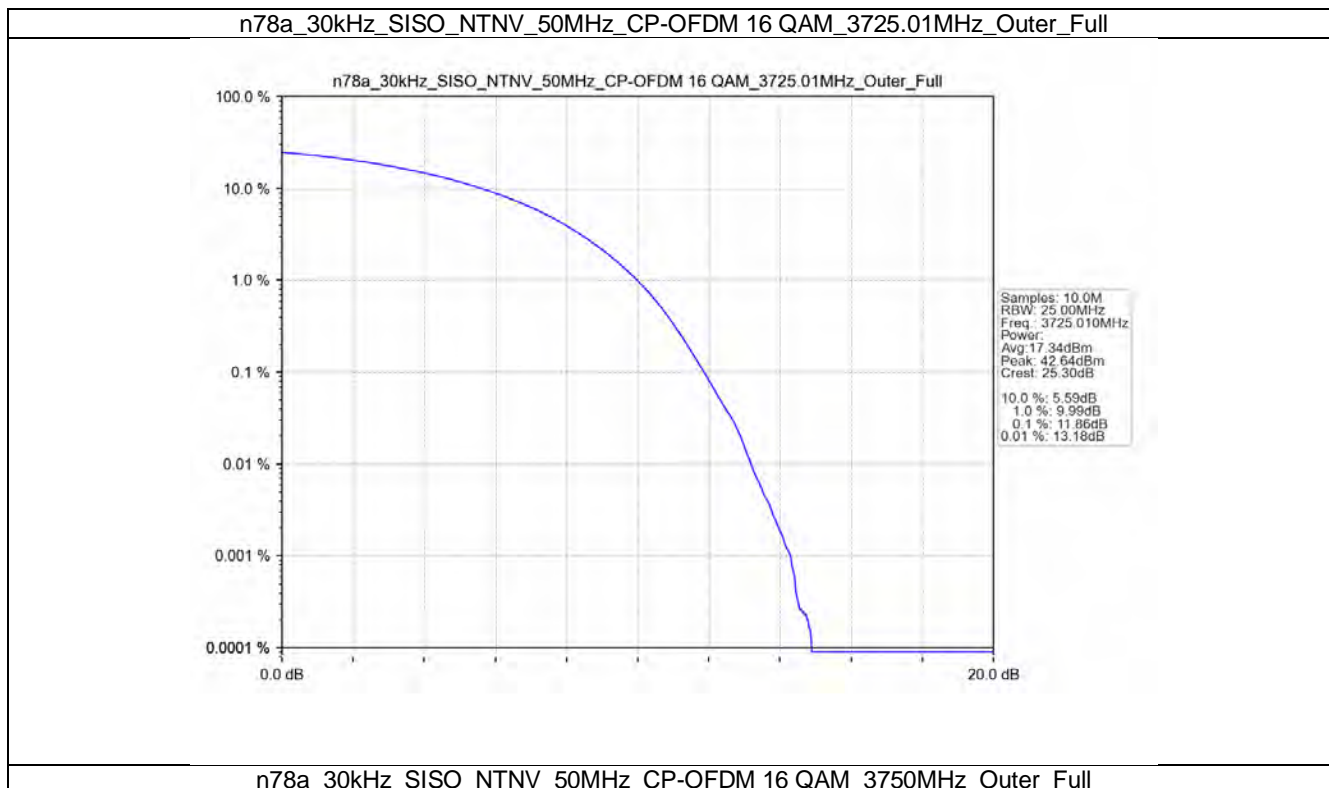
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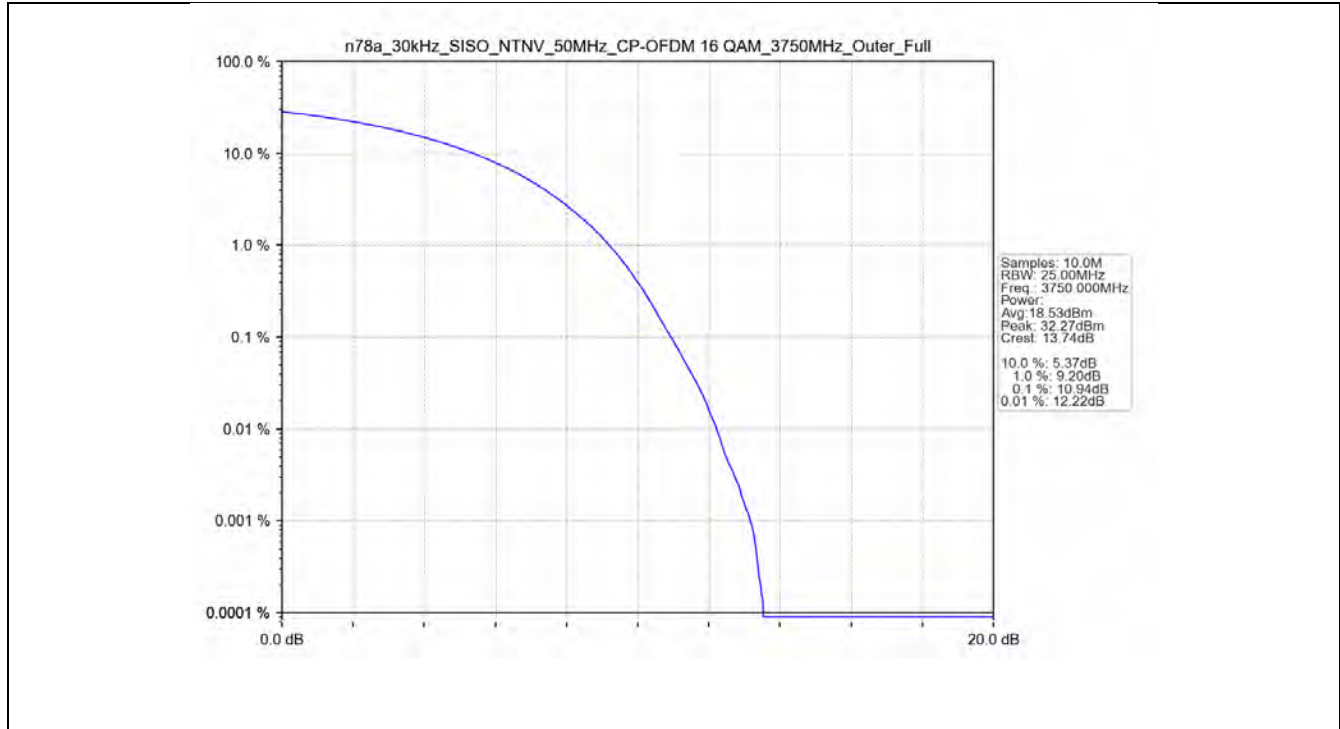


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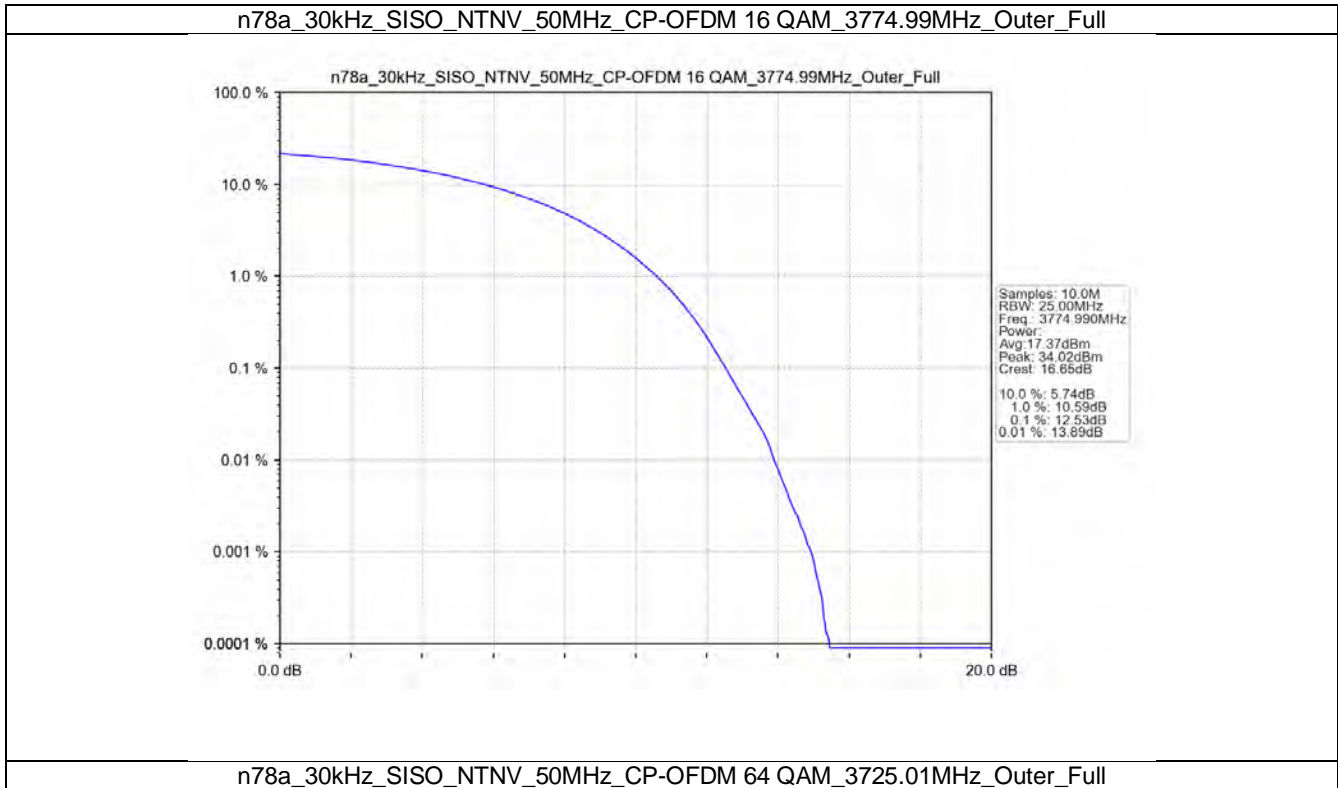


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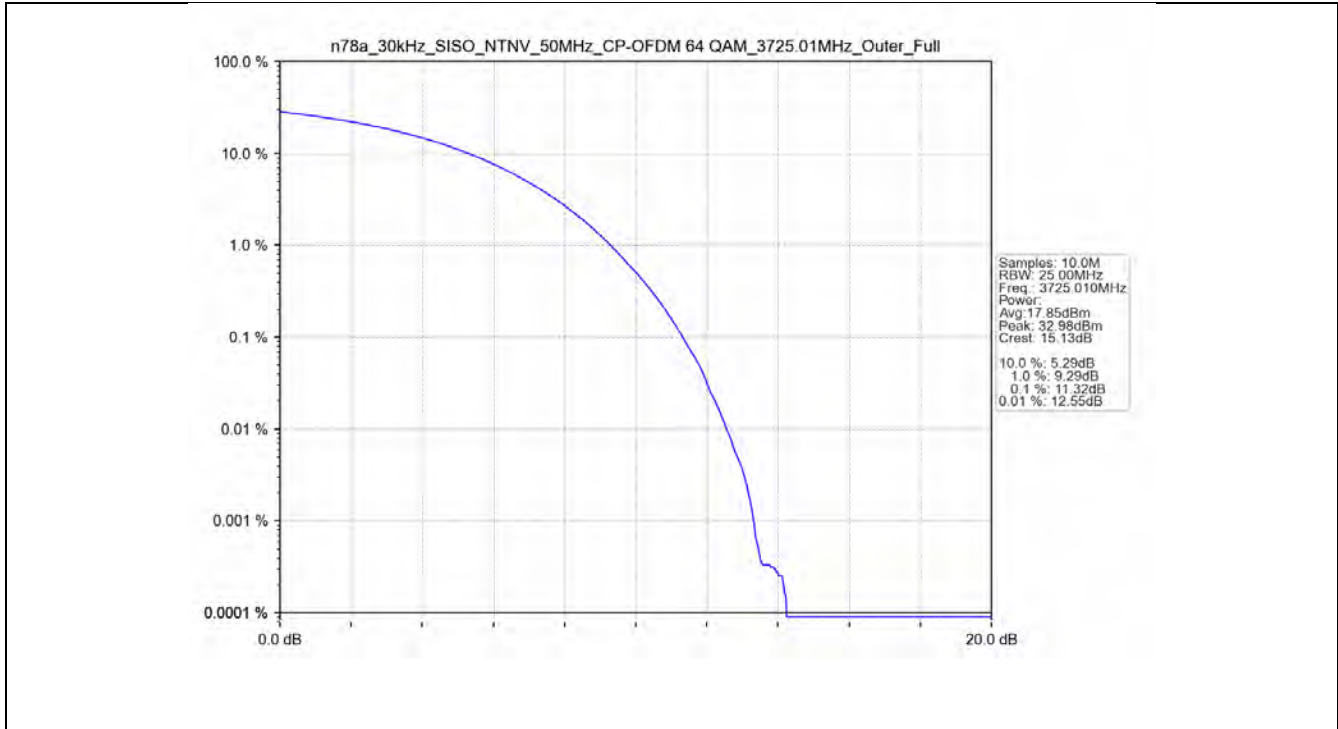


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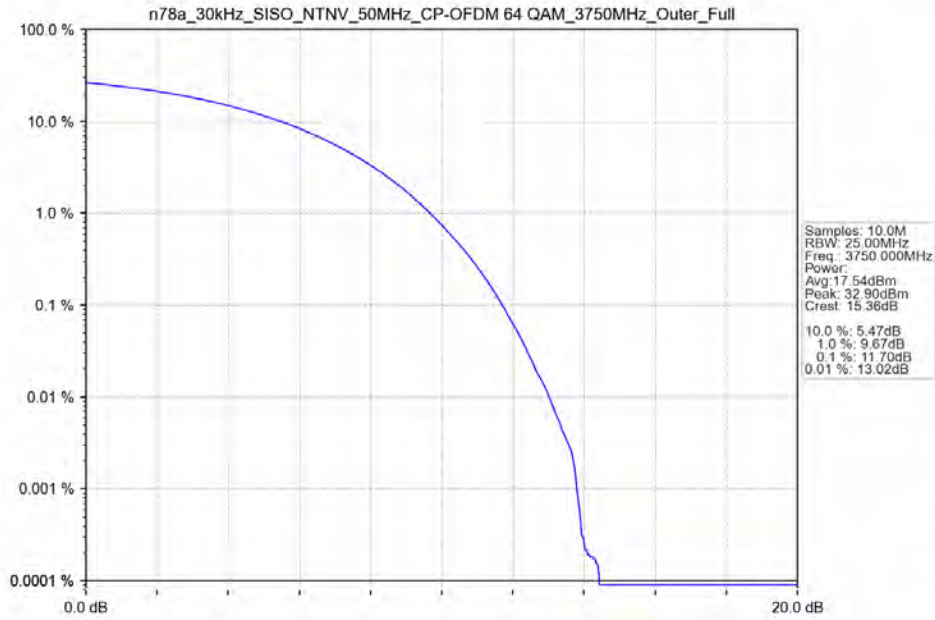
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n78a_30kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_3750MHz_Outer_Full



n78a_30kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_3774.99MHz_Outer_Full



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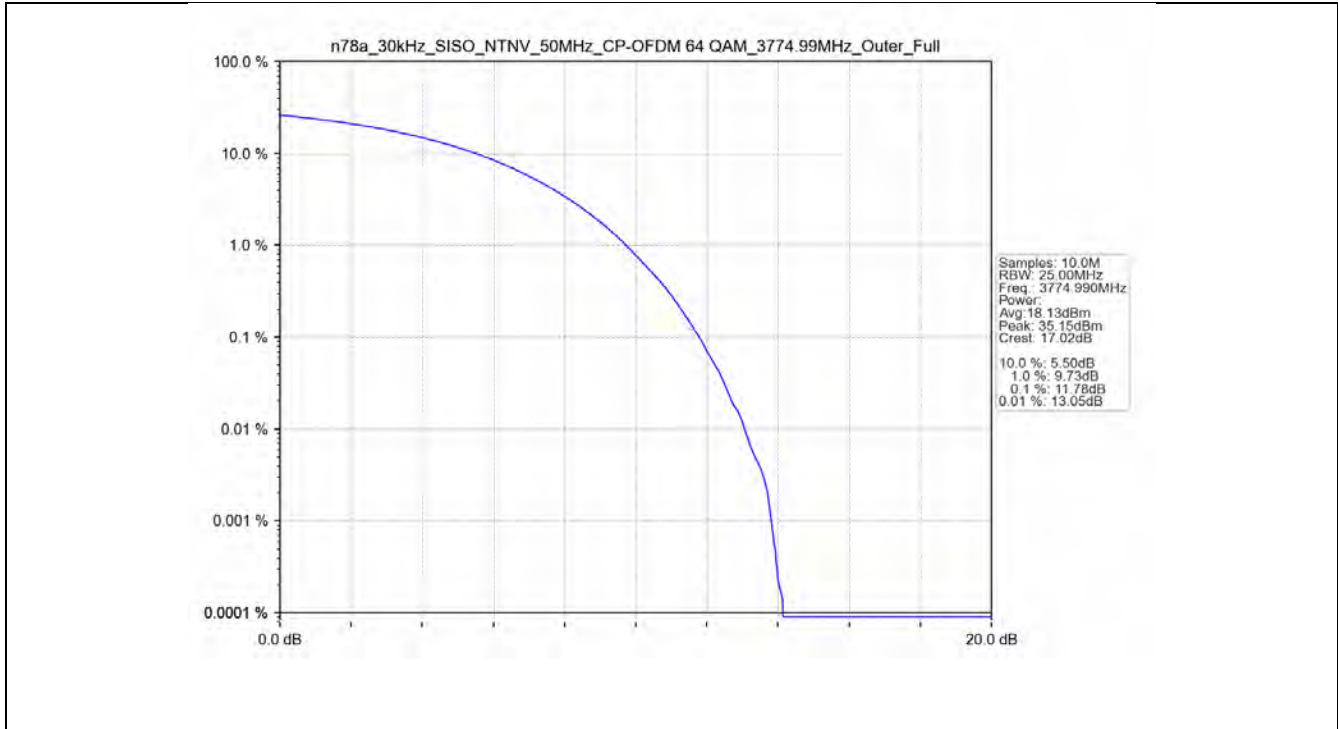


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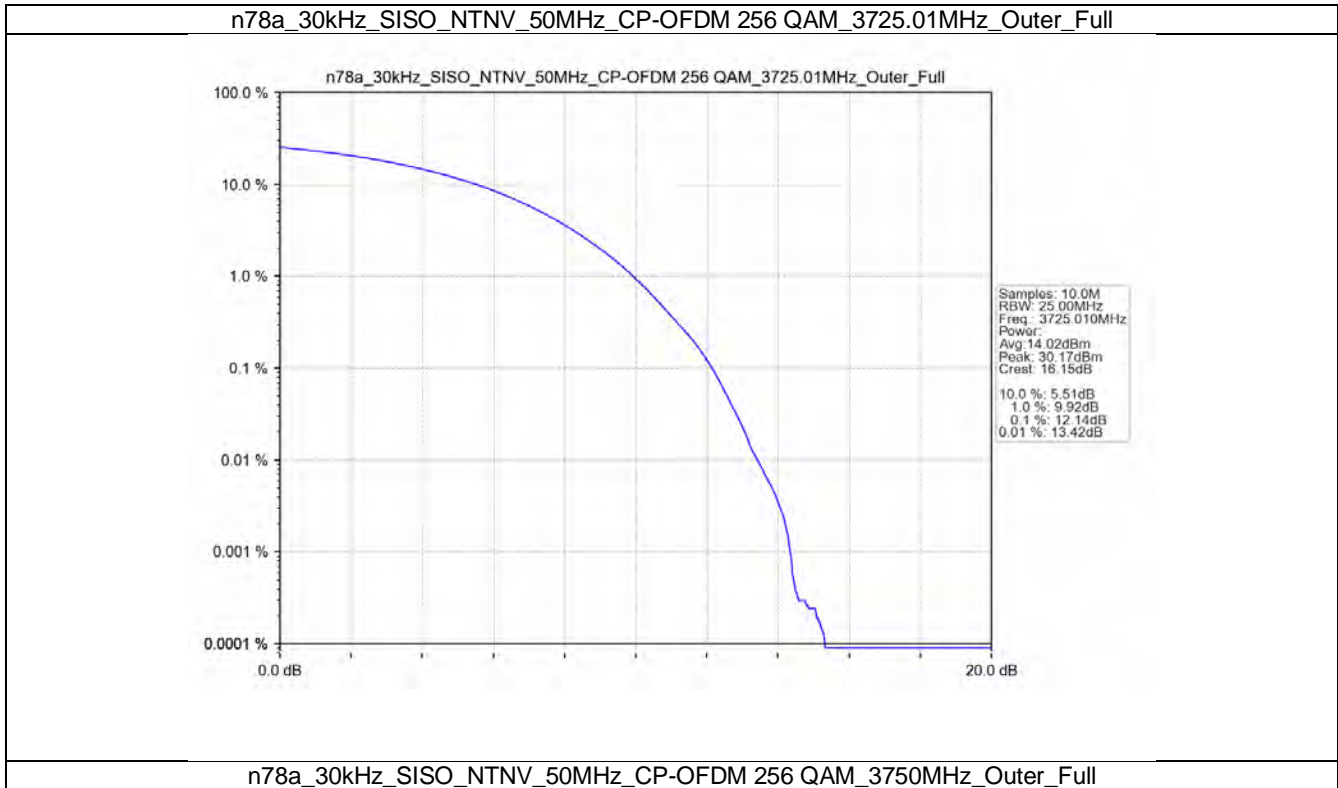


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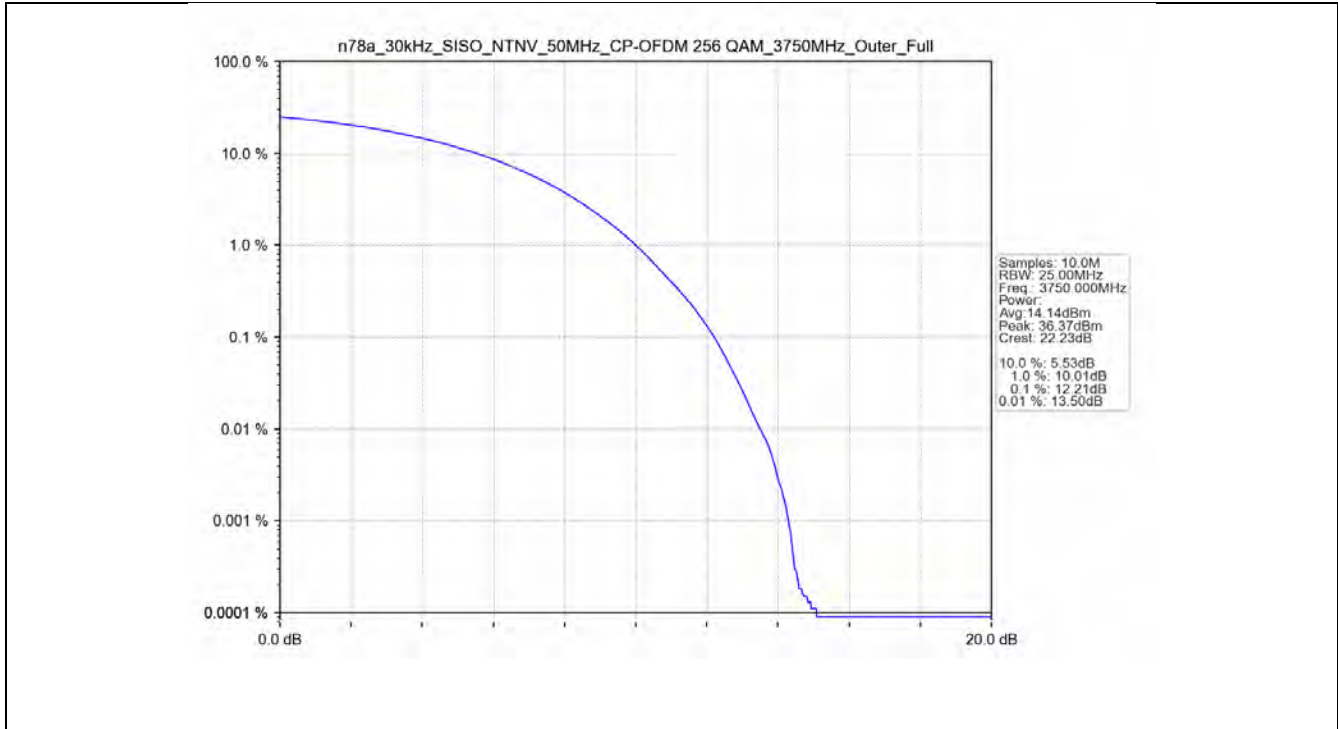


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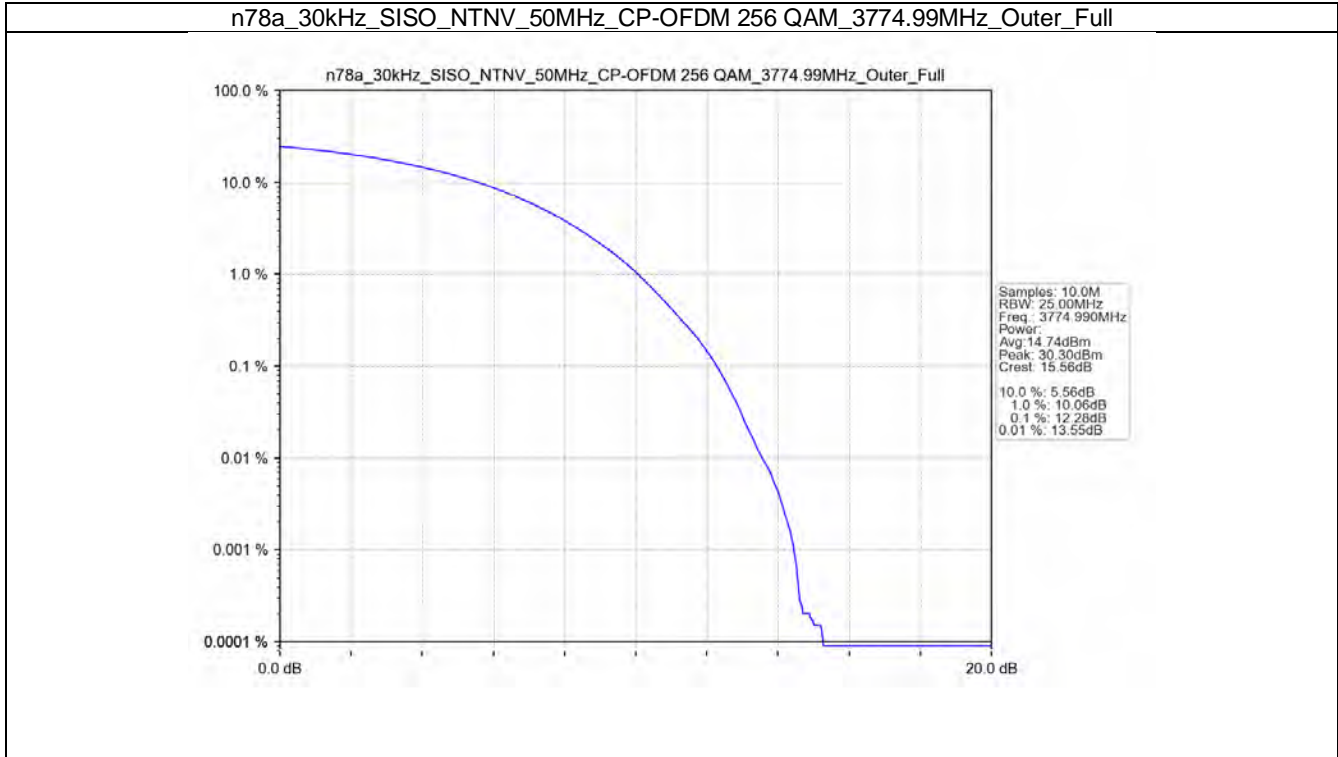


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4.5 30k_SISO_60MHz_NTNV

4.5.1 Test Result

5G NR n78a SCS=30kHz SISO 60MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3730.02	Outer_Full	10.12	/	/	<=13	Pass
	3750	Outer_Full	9.77	/	/	<=13	Pass
	3769.98	Outer_Full	10.42	/	/	<=13	Pass
DFT-s-OFDM QPSK	3730.02	Outer_Full	10.84	/	/	<=13	Pass
	3750	Outer_Full	11.27	/	/	<=13	Pass
	3769.98	Outer_Full	10.65	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3730.02	Outer_Full	11.21	/	/	<=13	Pass
	3750	Outer_Full	10.64	/	/	<=13	Pass
	3769.98	Outer_Full	11.26	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3730.02	Outer_Full	11.35	/	/	<=13	Pass
	3750	Outer_Full	10.62	/	/	<=13	Pass
	3769.98	Outer_Full	11.07	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3730.02	Outer_Full	10.90	/	/	<=13	Pass
	3750	Outer_Full	11.04	/	/	<=13	Pass
	3769.98	Outer_Full	10.18	/	/	<=13	Pass
CP-OFDM QPSK	3730.02	Outer_Full	11.76	/	/	<=13	Pass
	3750	Outer_Full	11.53	/	/	<=13	Pass
	3769.98	Outer_Full	11.50	/	/	<=13	Pass
CP-OFDM 16 QAM	3730.02	Outer_Full	11.91	/	/	<=13	Pass
	3750	Outer_Full	11.14	/	/	<=13	Pass
	3769.98	Outer_Full	11.89	/	/	<=13	Pass
CP-OFDM 64 QAM	3730.02	Outer_Full	11.91	/	/	<=13	Pass
	3750	Outer_Full	11.66	/	/	<=13	Pass
	3769.98	Outer_Full	12.34	/	/	<=13	Pass
CP-OFDM 256 QAM	3730.02	Outer_Full	12.49	/	/	<=13	Pass
	3750	Outer_Full	11.28	/	/	<=13	Pass
	3769.98	Outer_Full	12.33	/	/	<=13	Pass



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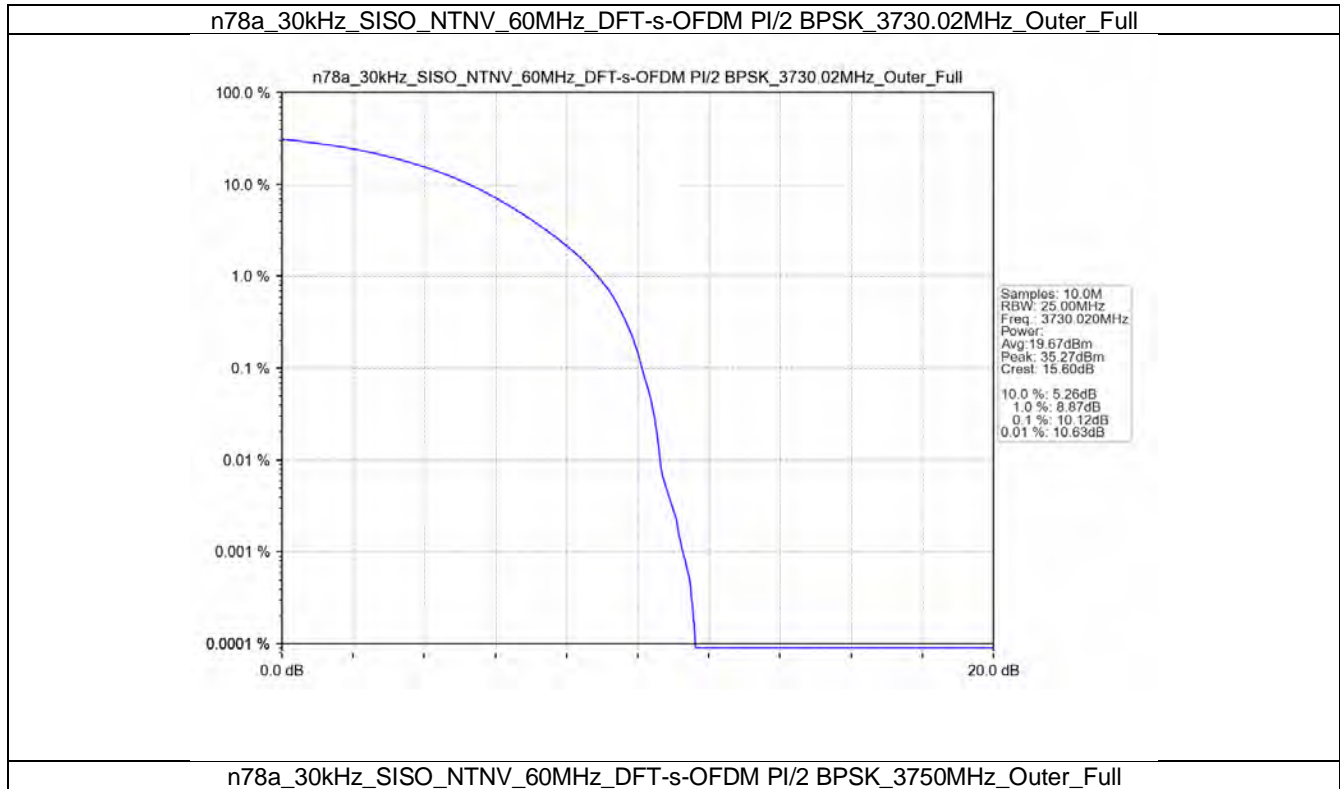


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4.5.2 Test Graph



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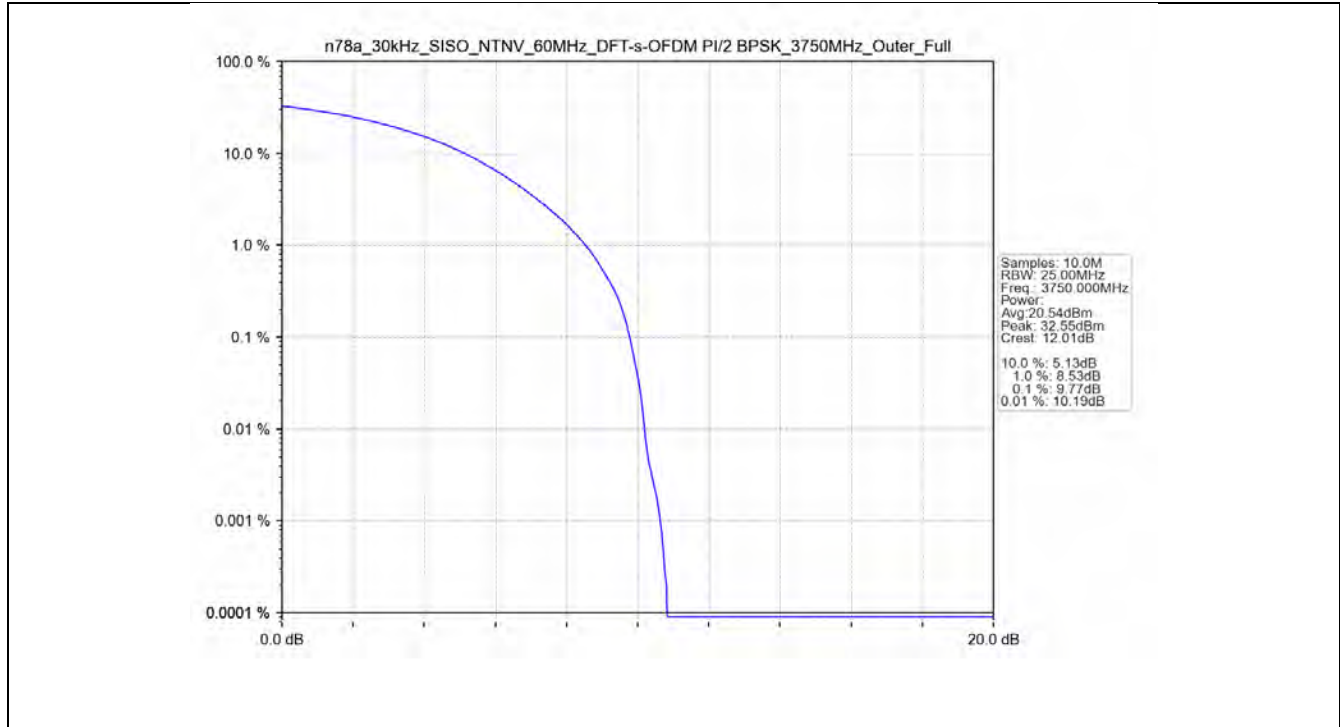


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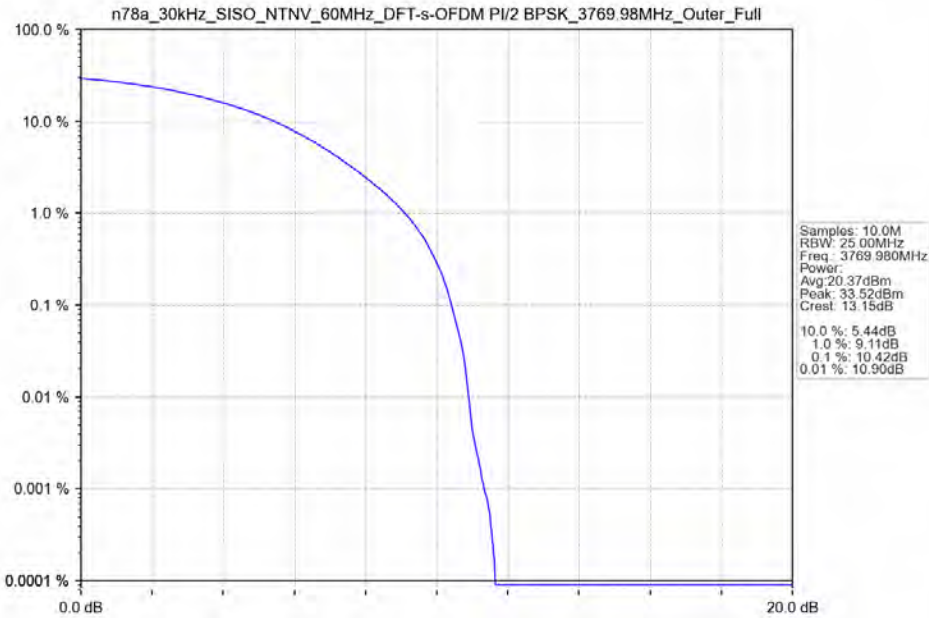
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n78a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM PI/2 BPSK_3769.98MHz_Outer_Full



n78a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM QPSK_3730.02MHz_Outer_Full



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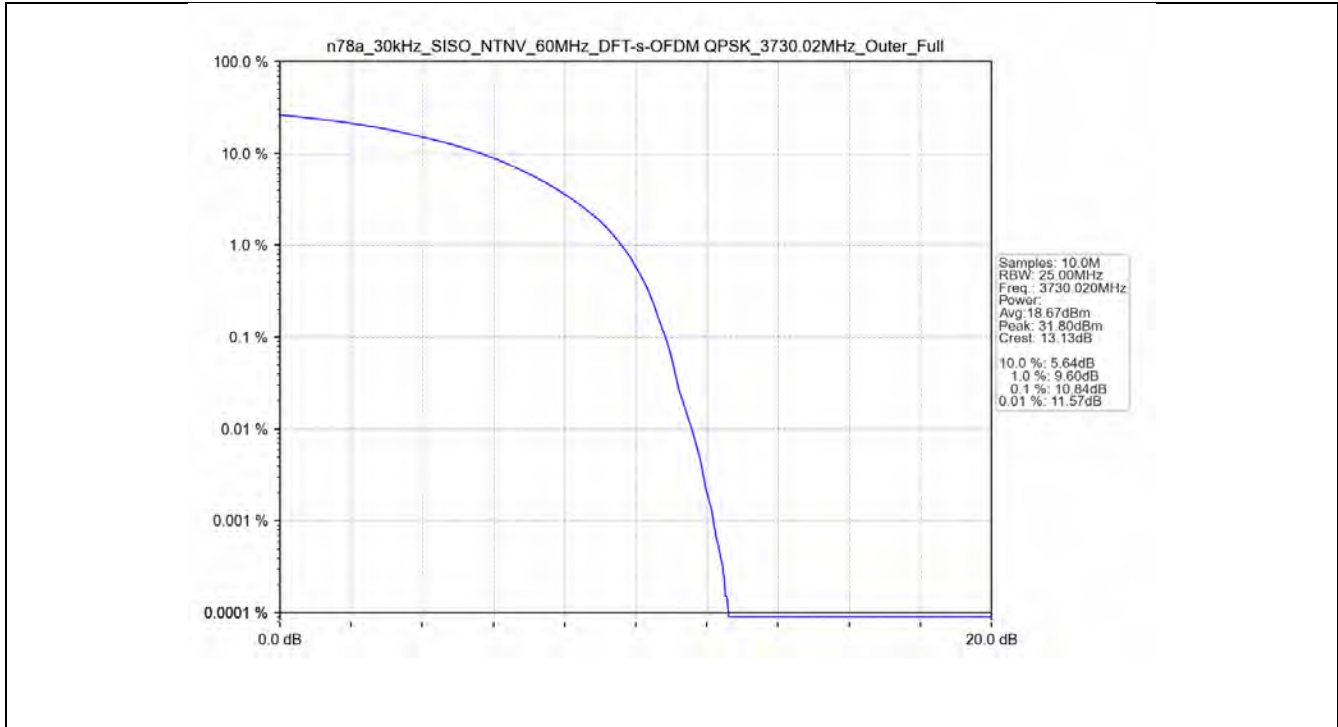


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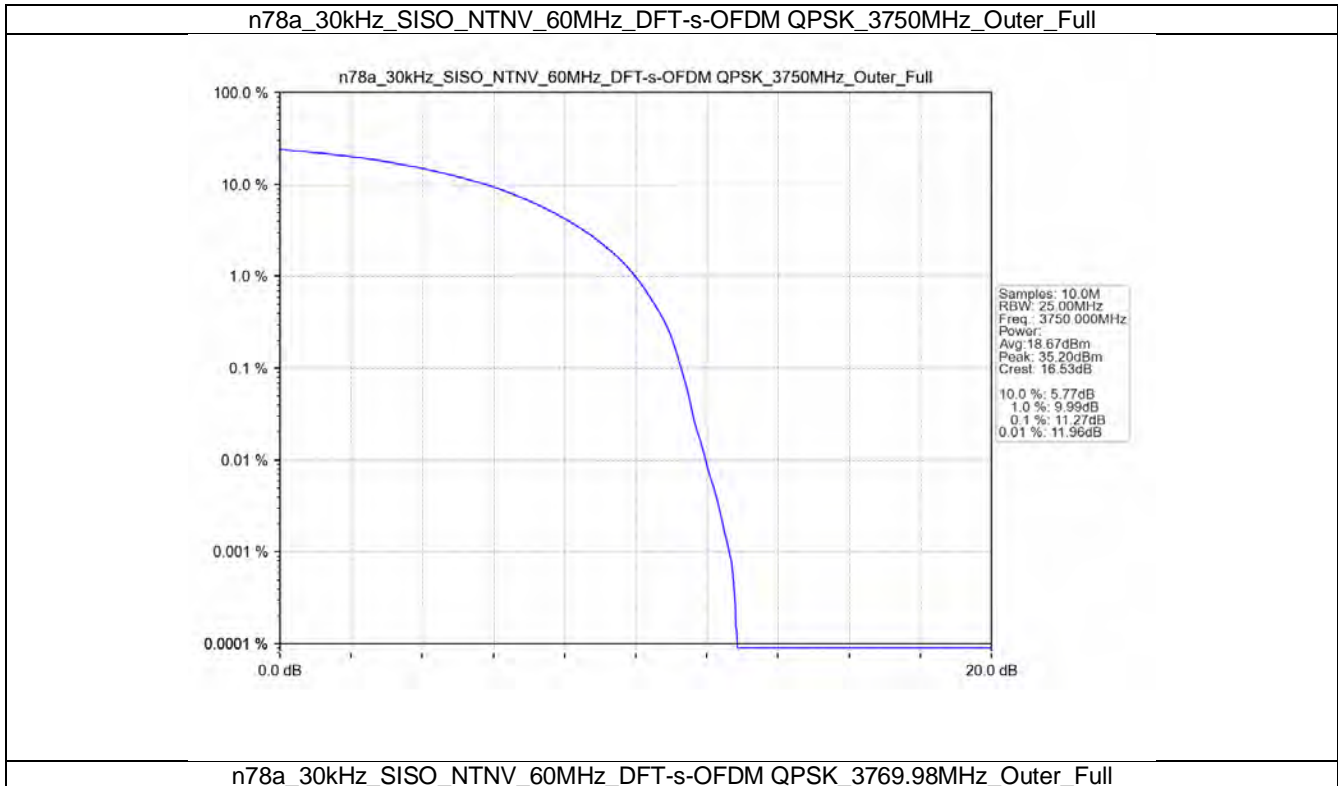


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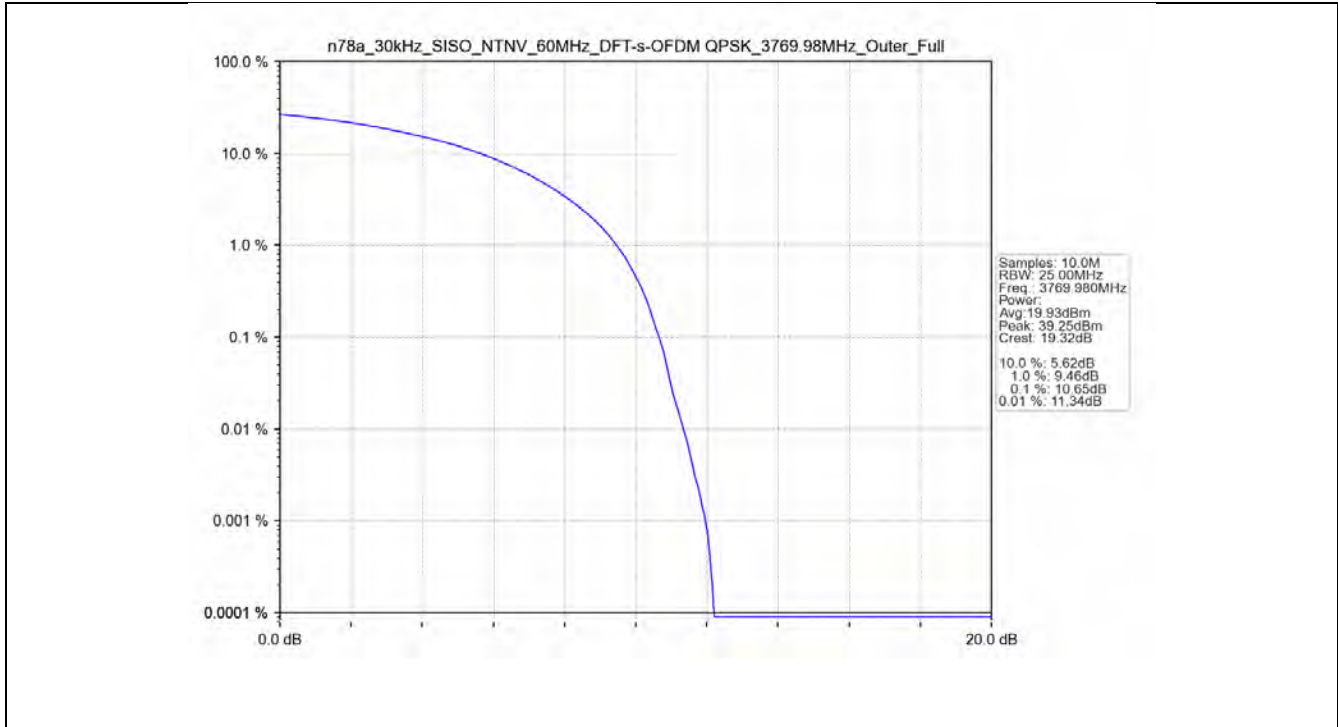


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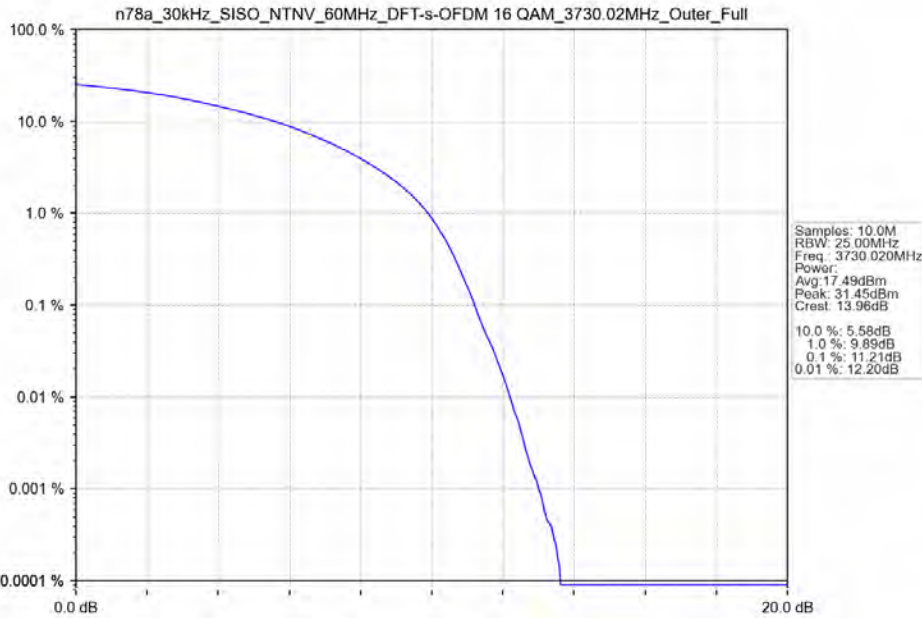
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n78a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM_16_QAM_3730.02MHz_Outer_Full



n78a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM_16_QAM_3750MHz_Outer_Full



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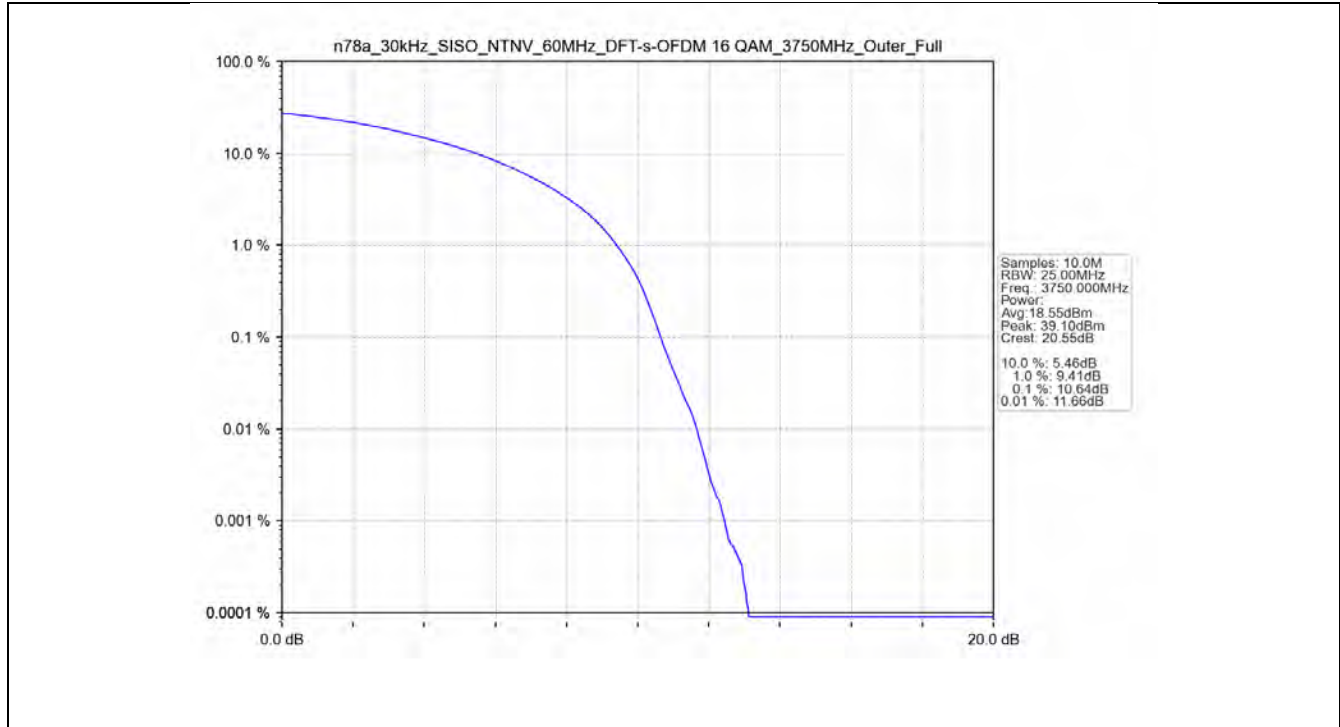


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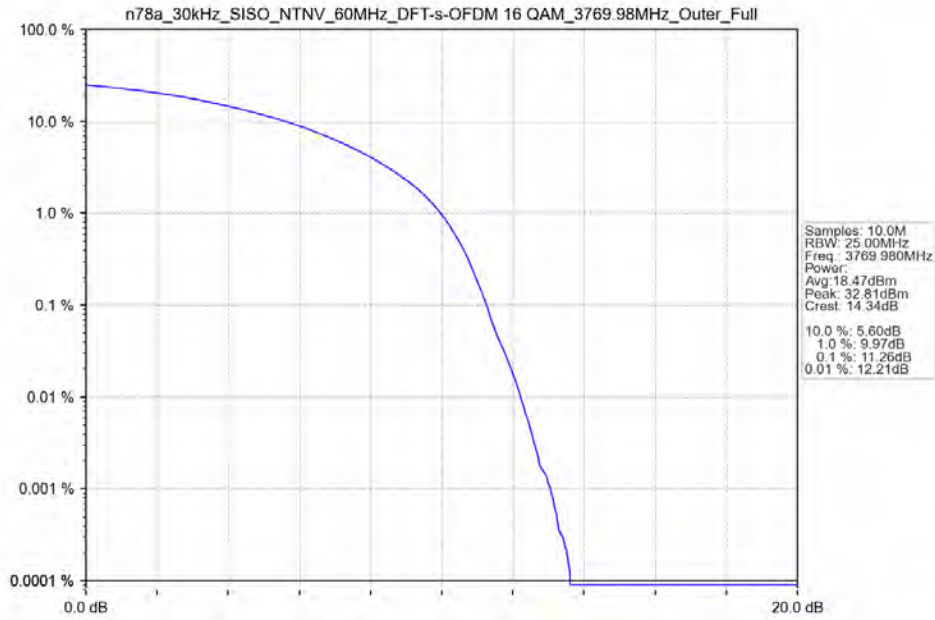
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n78a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM 16 QAM_3769.98MHz_Outer_Full



n78a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM 64 QAM_3730.02MHz_Outer_Full



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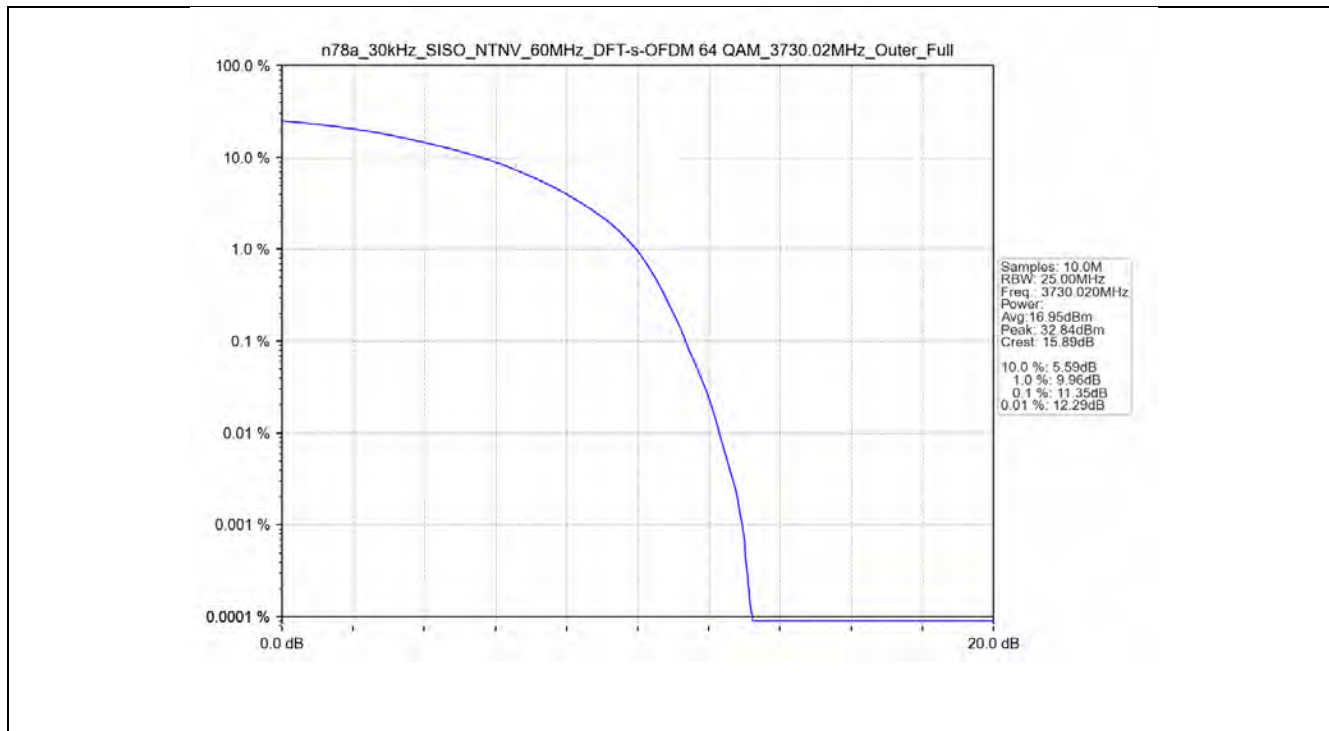
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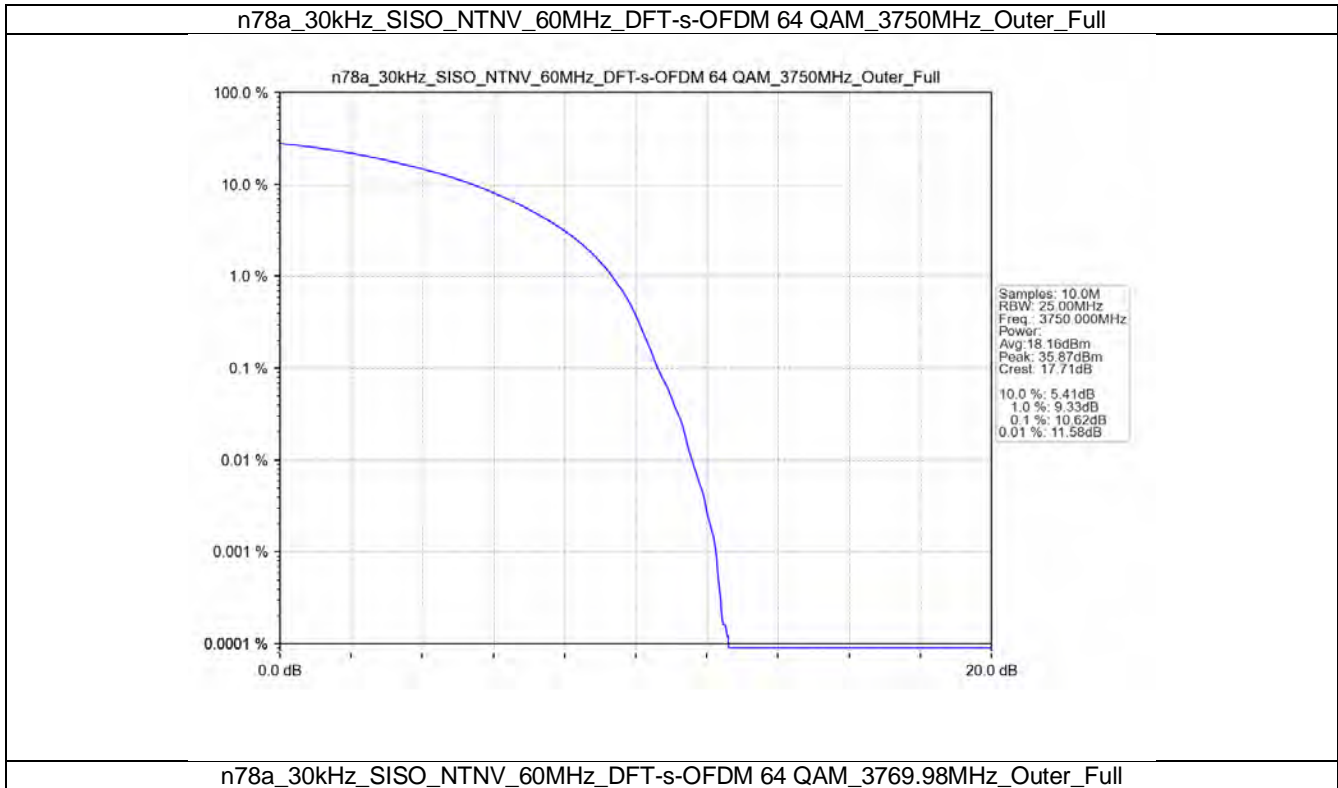


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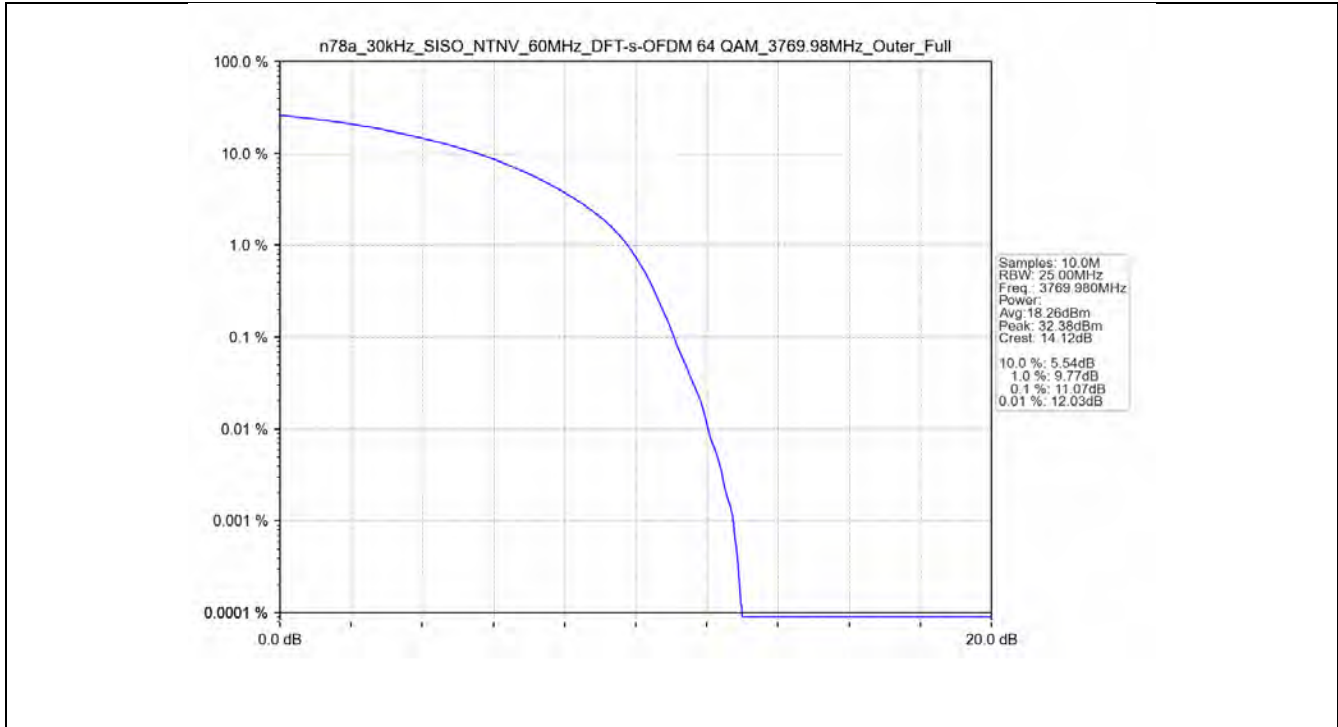


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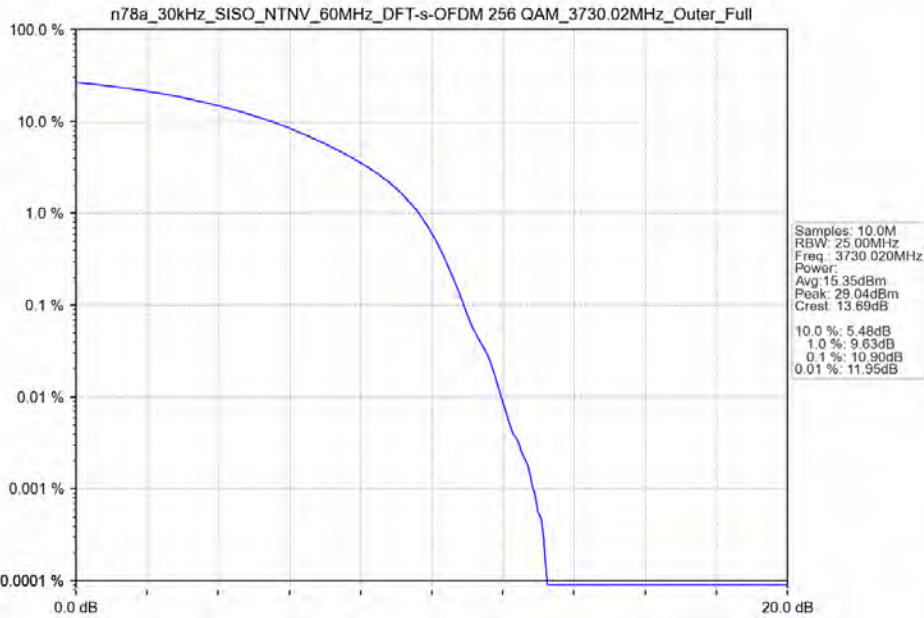
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n78a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM 256 QAM_3730.02MHz_Outer_Full



n78a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM 256 QAM_3750MHz_Outer_Full



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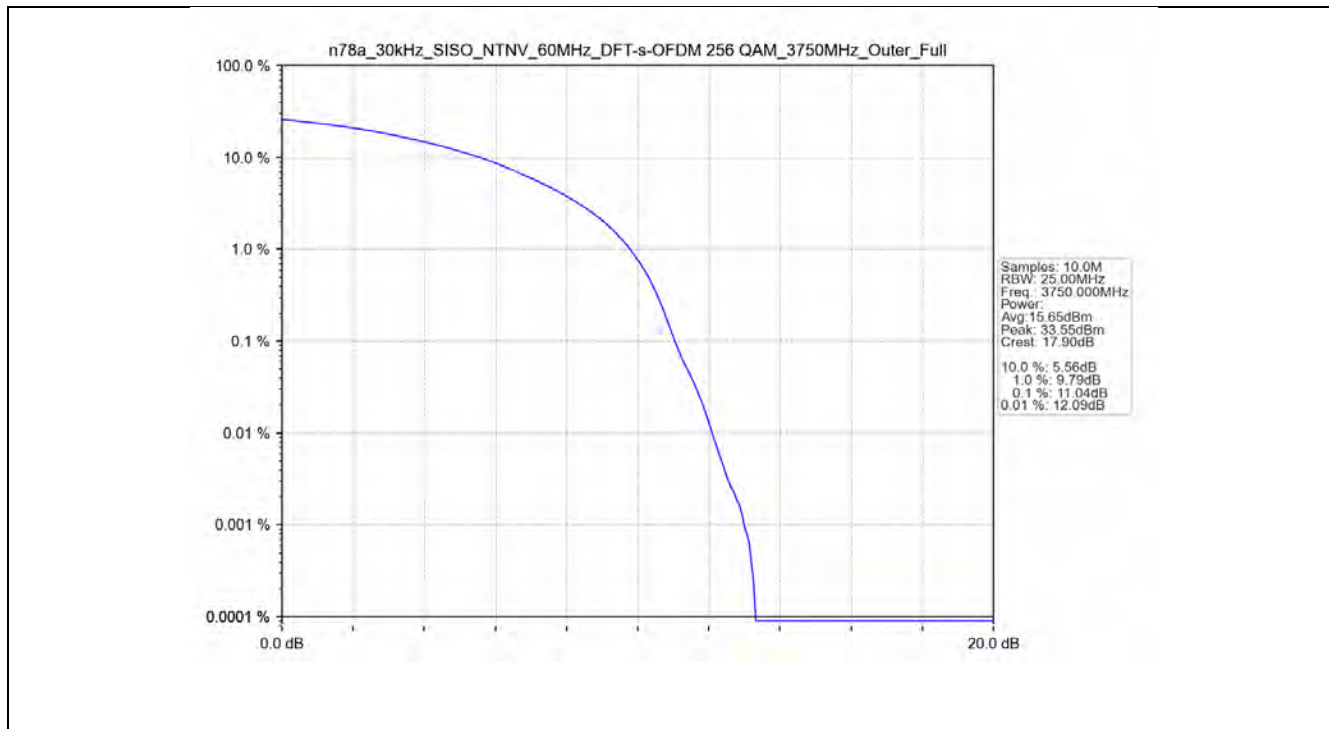
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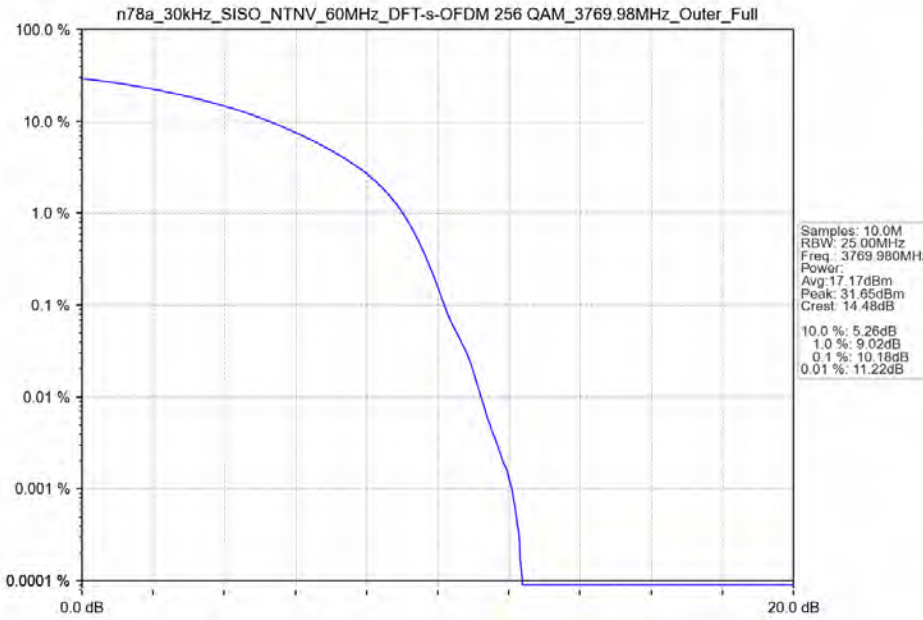
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n78a_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM 256 QAM_3769.98MHz_Outer_Full



n78a_30kHz_SISO_NTNV_60MHz_CP-OFDM QPSK_3730.02MHz_Outer_Full



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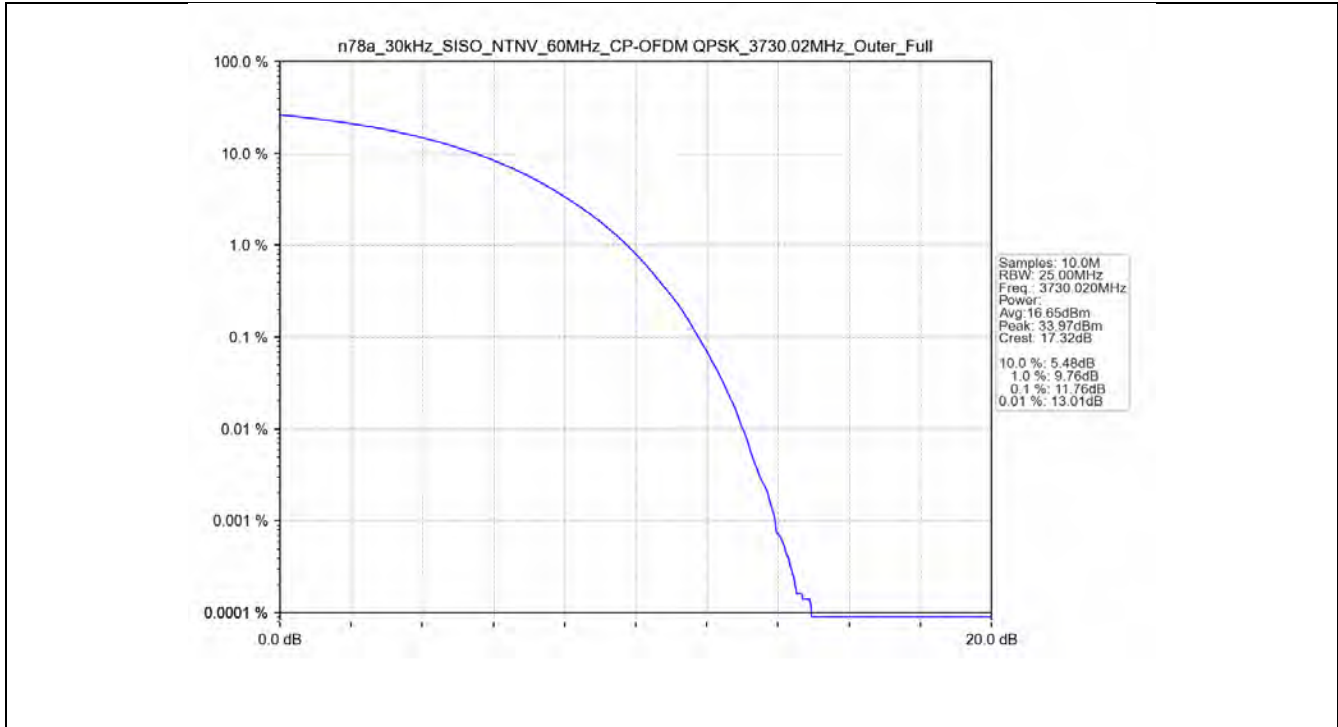


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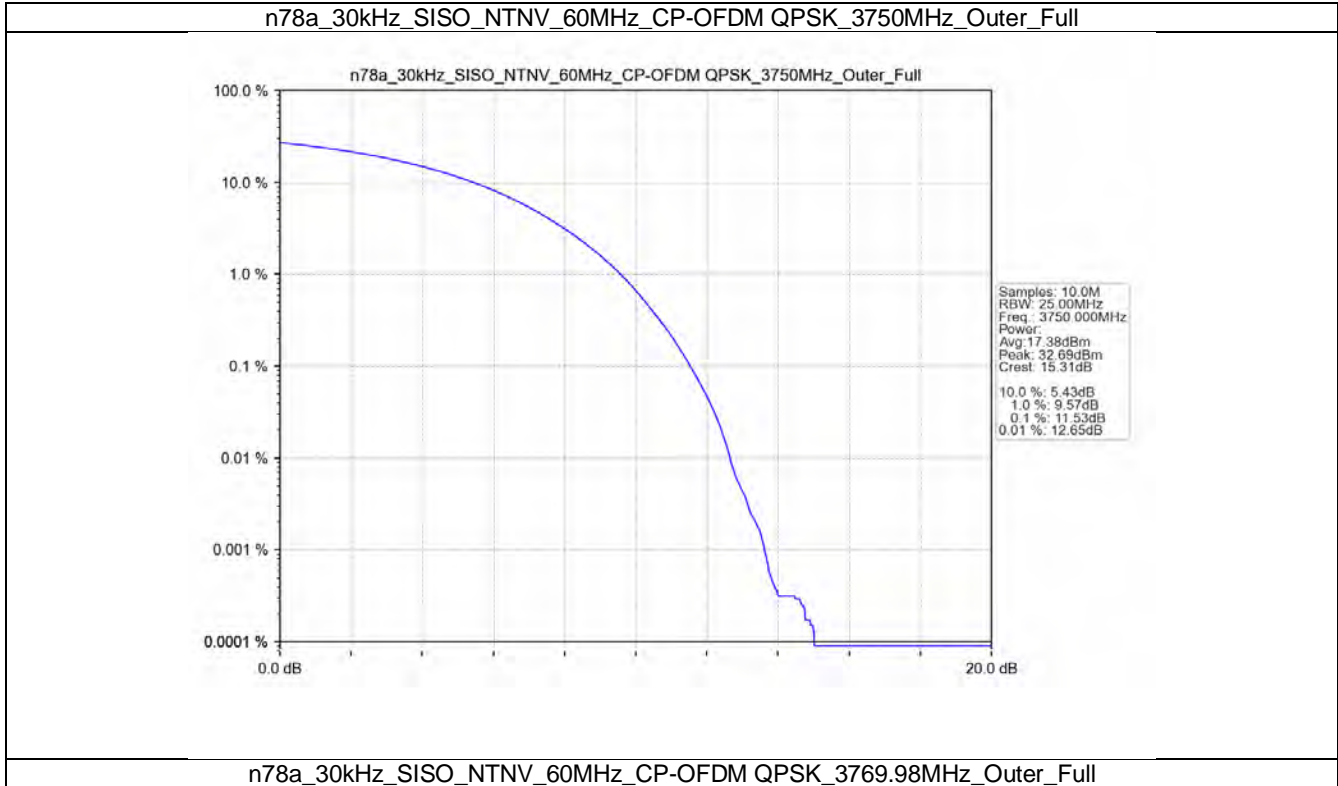


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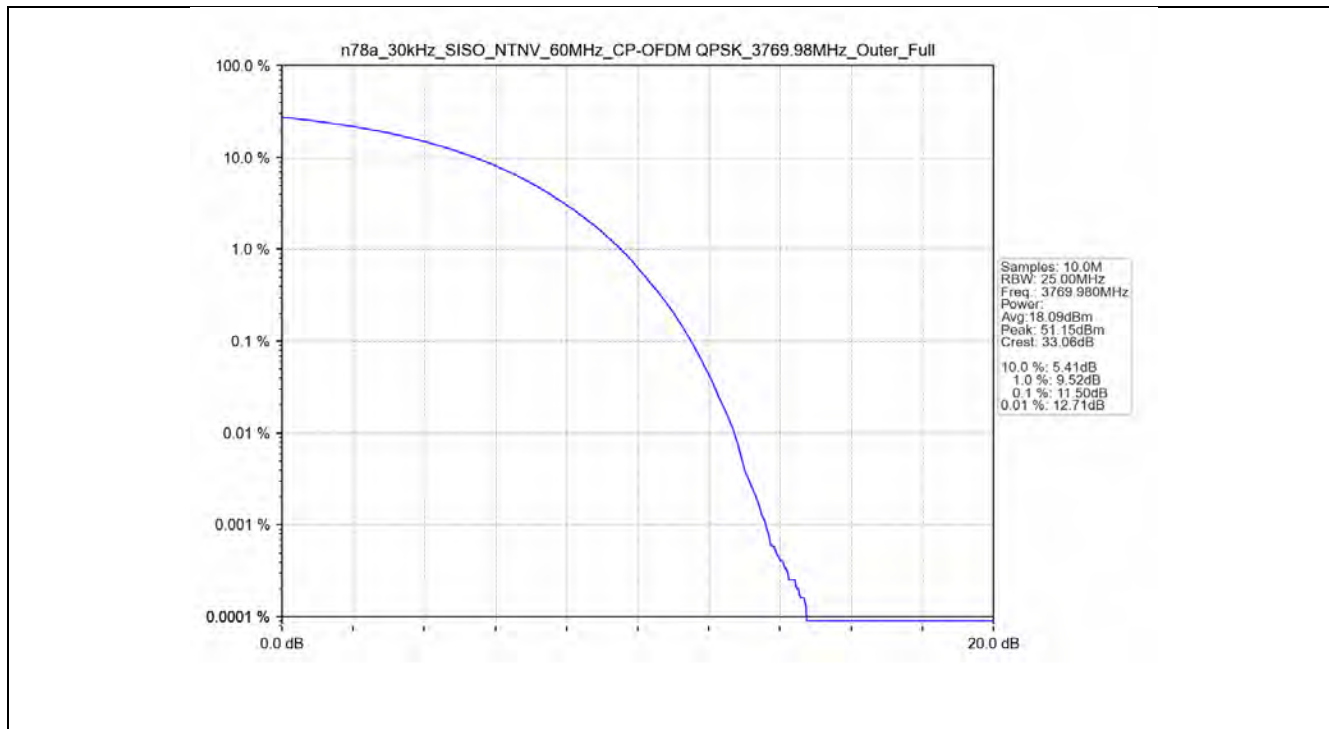
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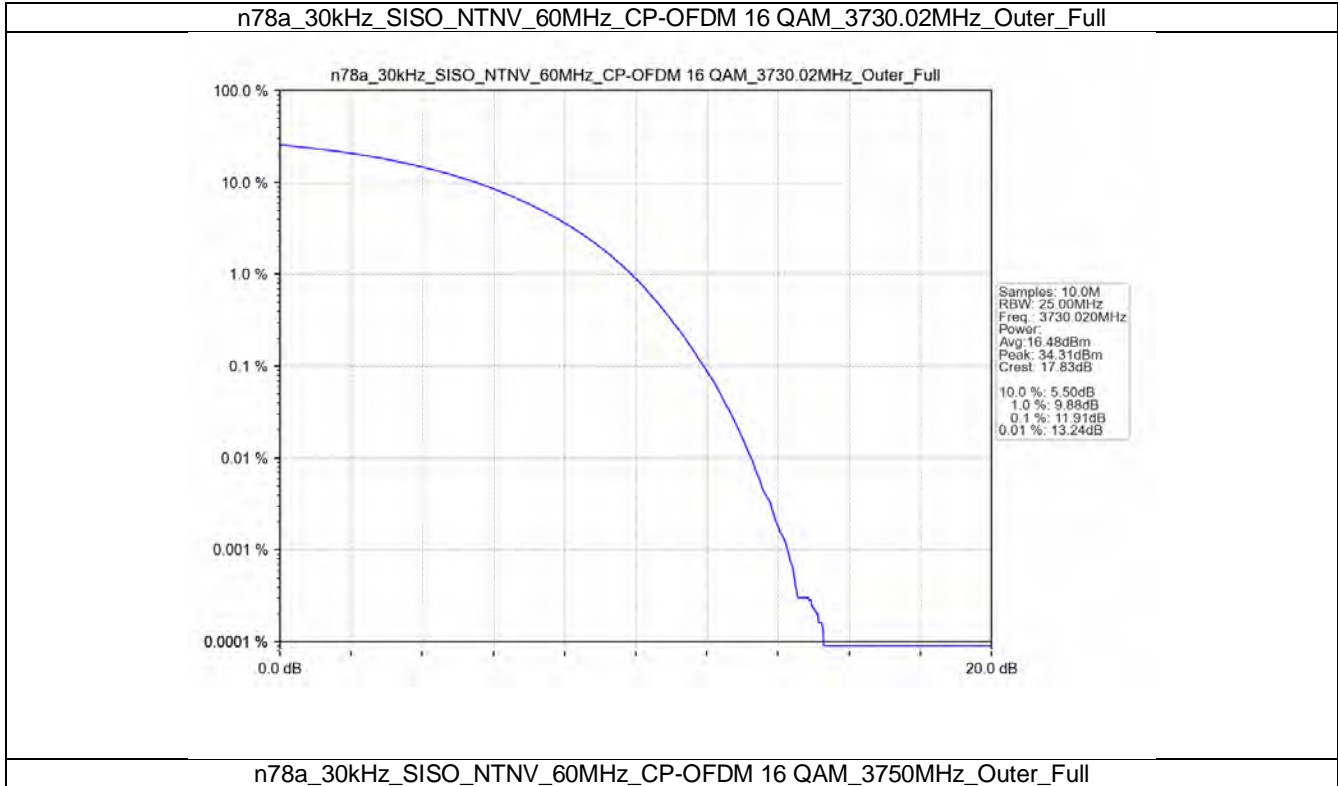


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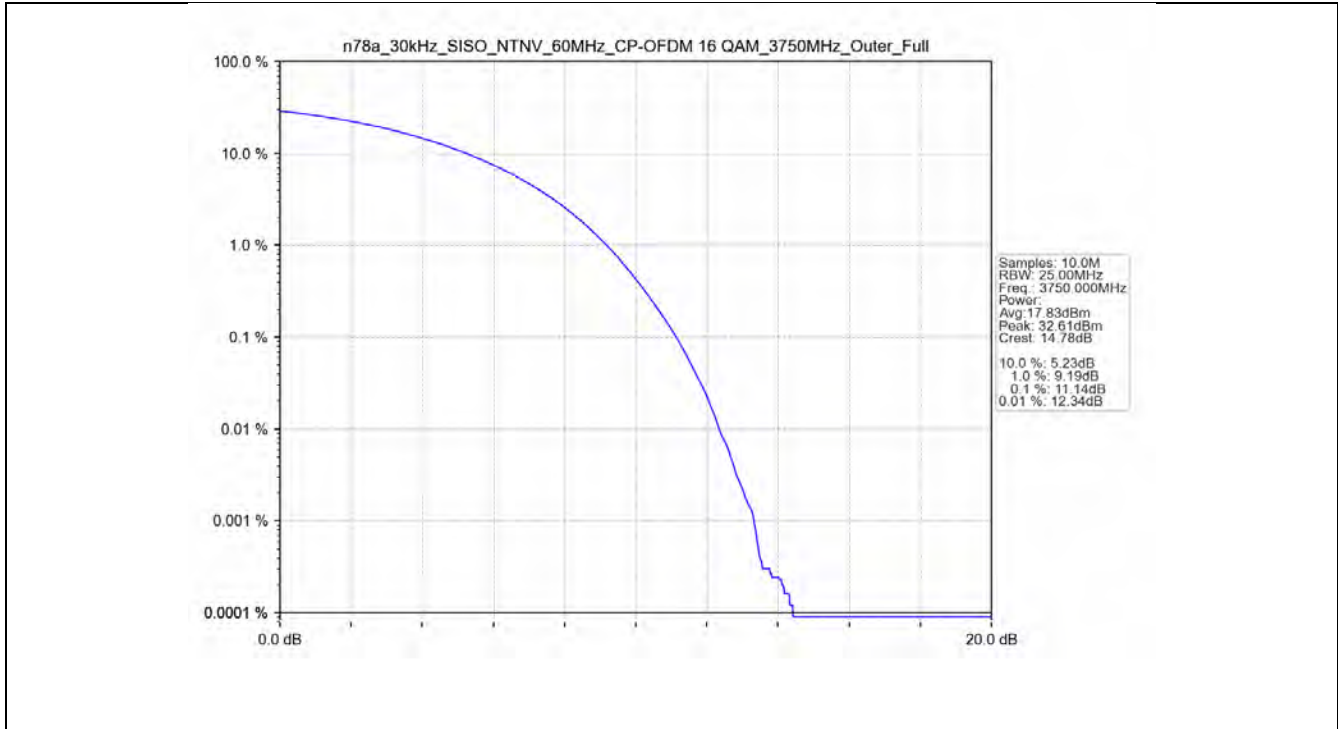


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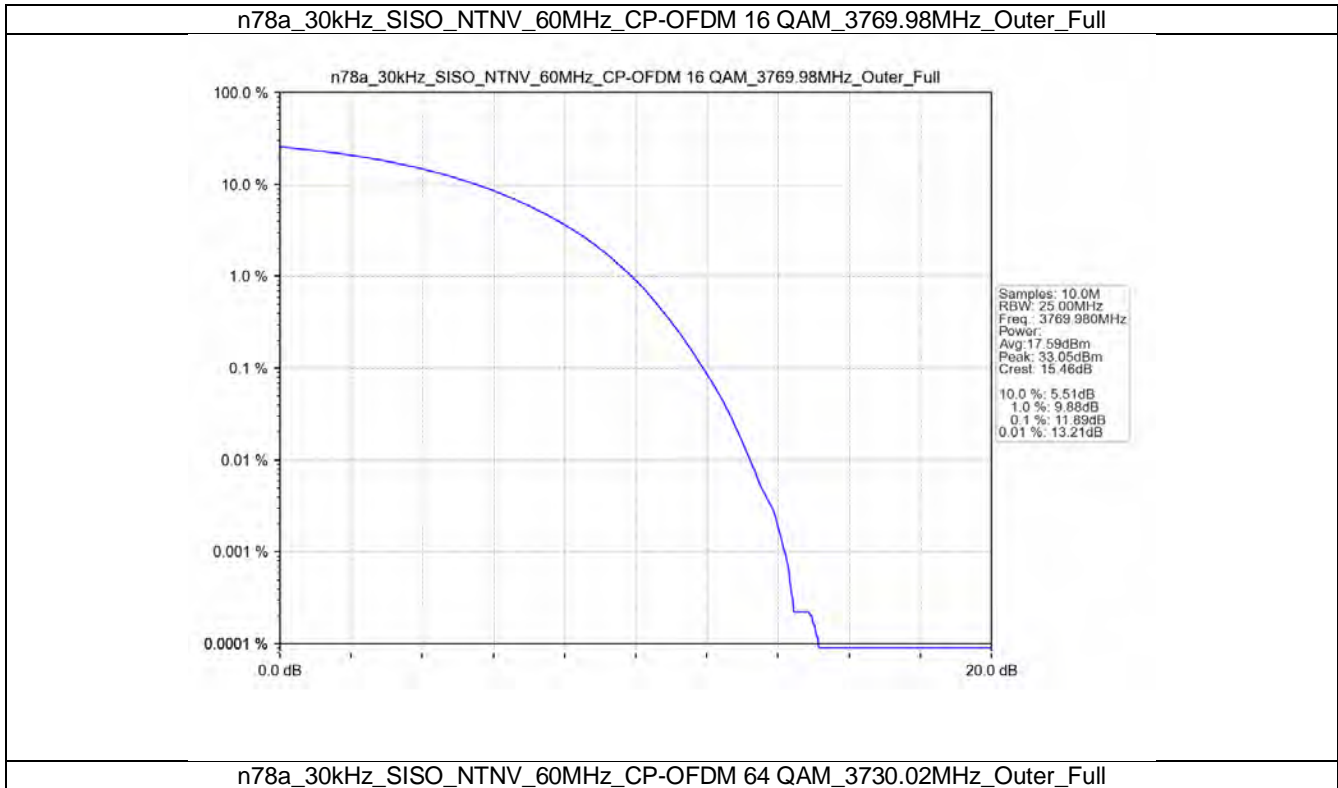


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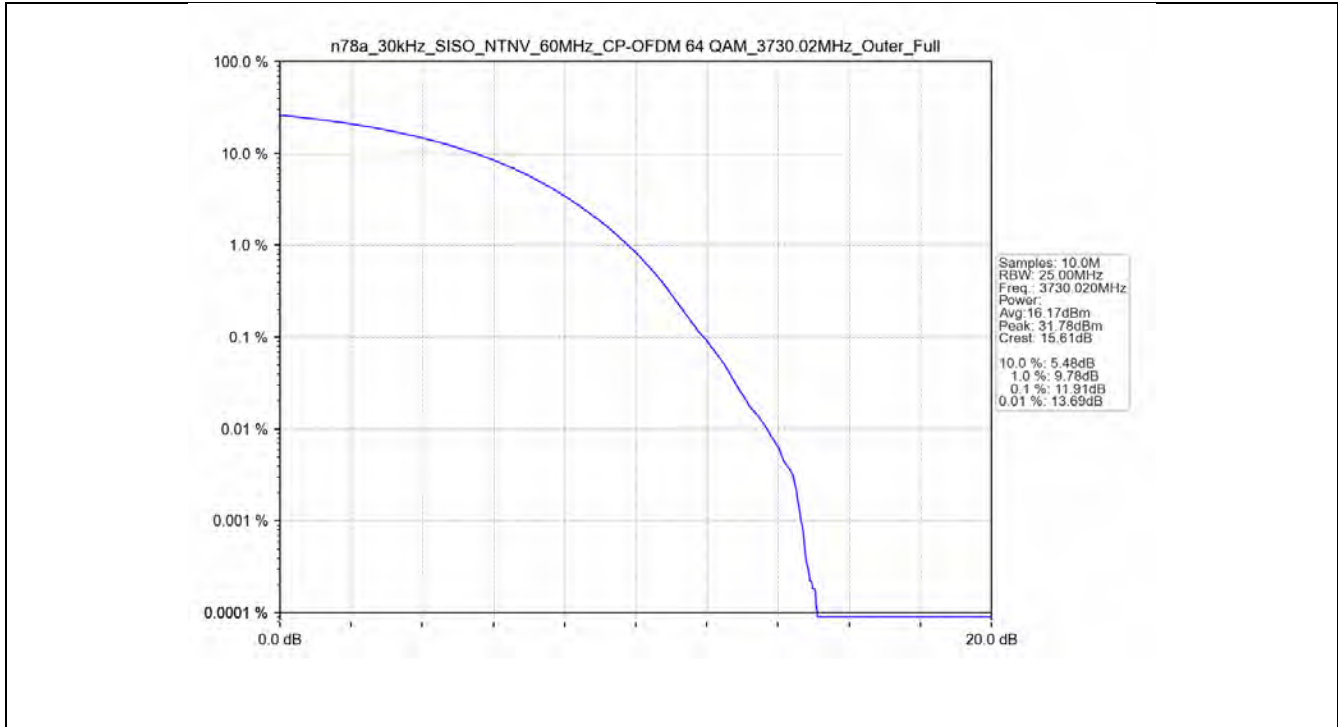


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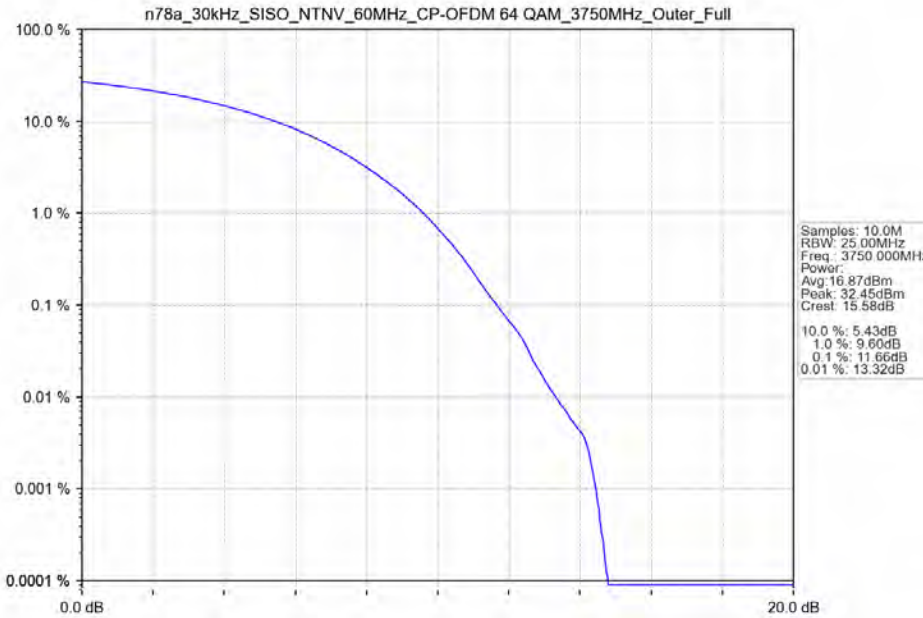
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n78a_30kHz_SISO_NTNV_60MHz_CP-OFDM 64 QAM_3750MHz_Outer_Full



n78a_30kHz_SISO_NTNV_60MHz_CP-OFDM 64 QAM_3769.98MHz_Outer_Full



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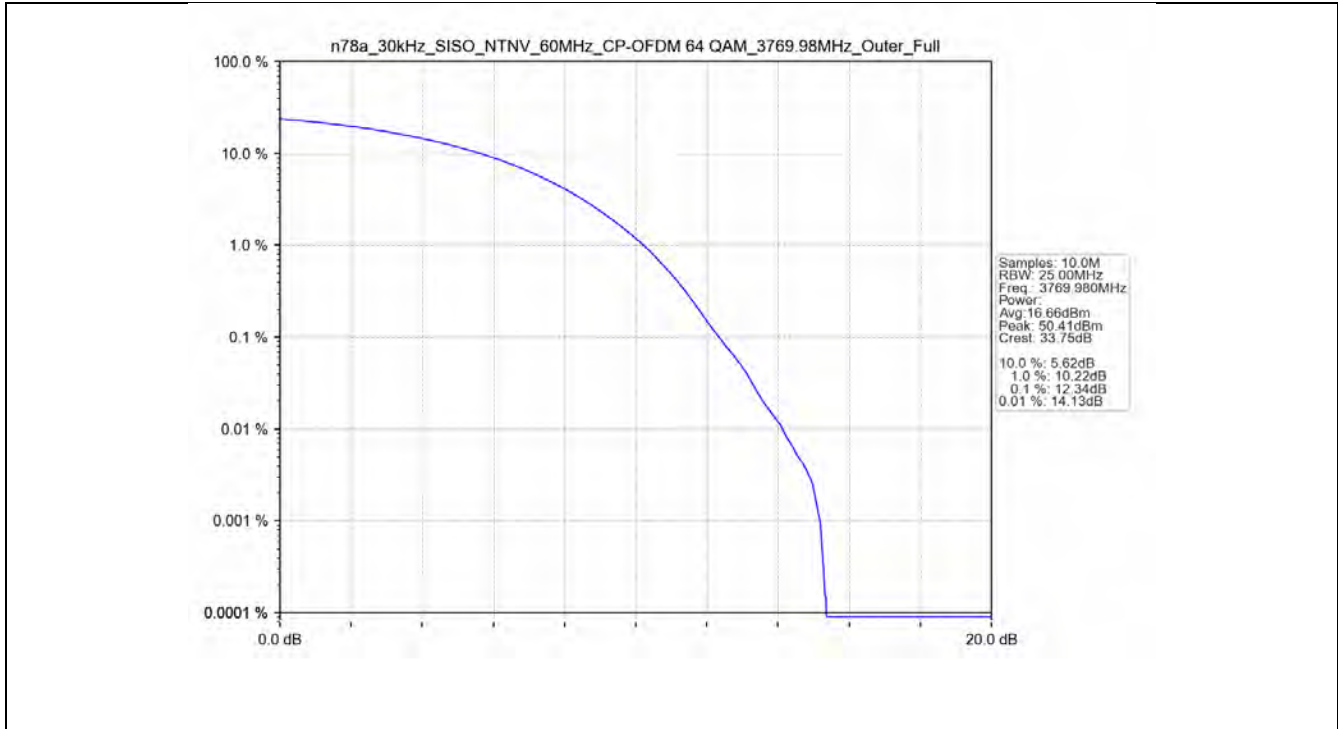


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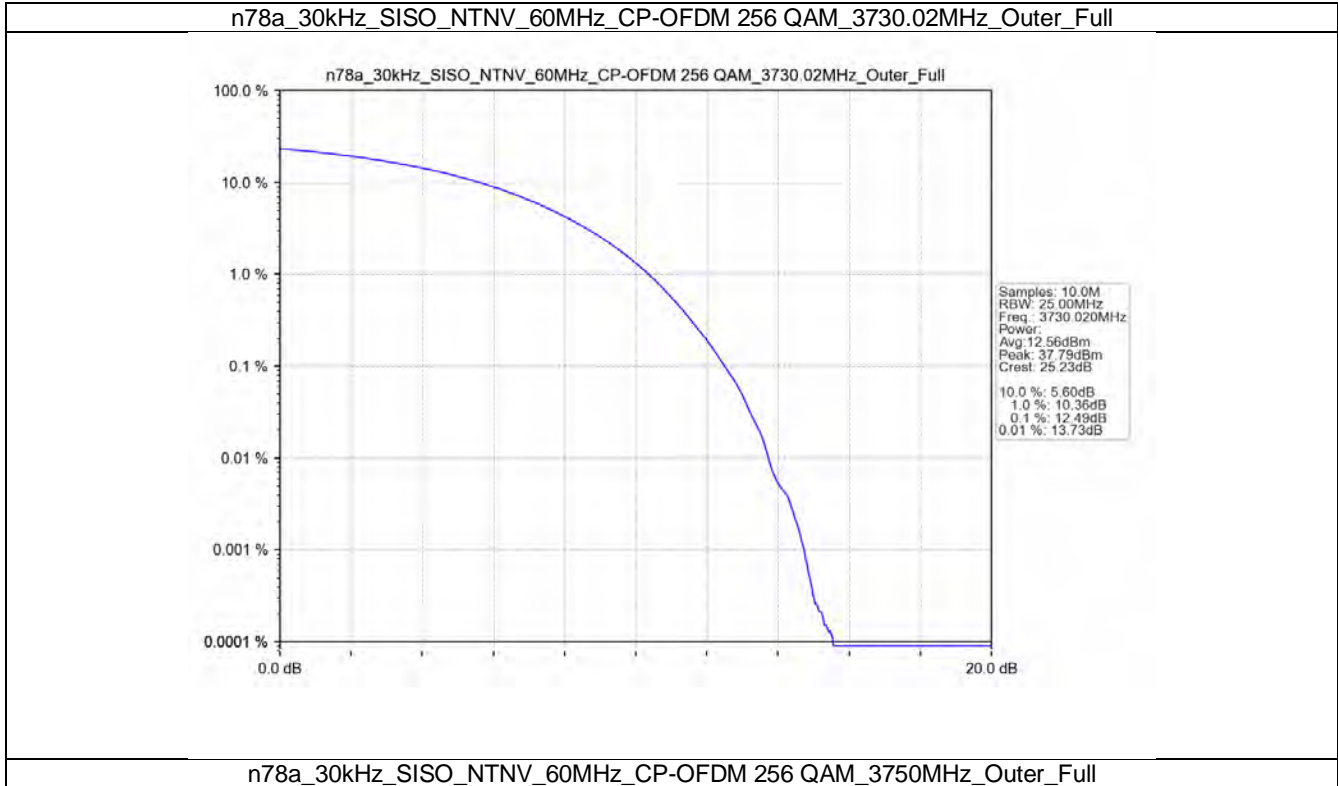


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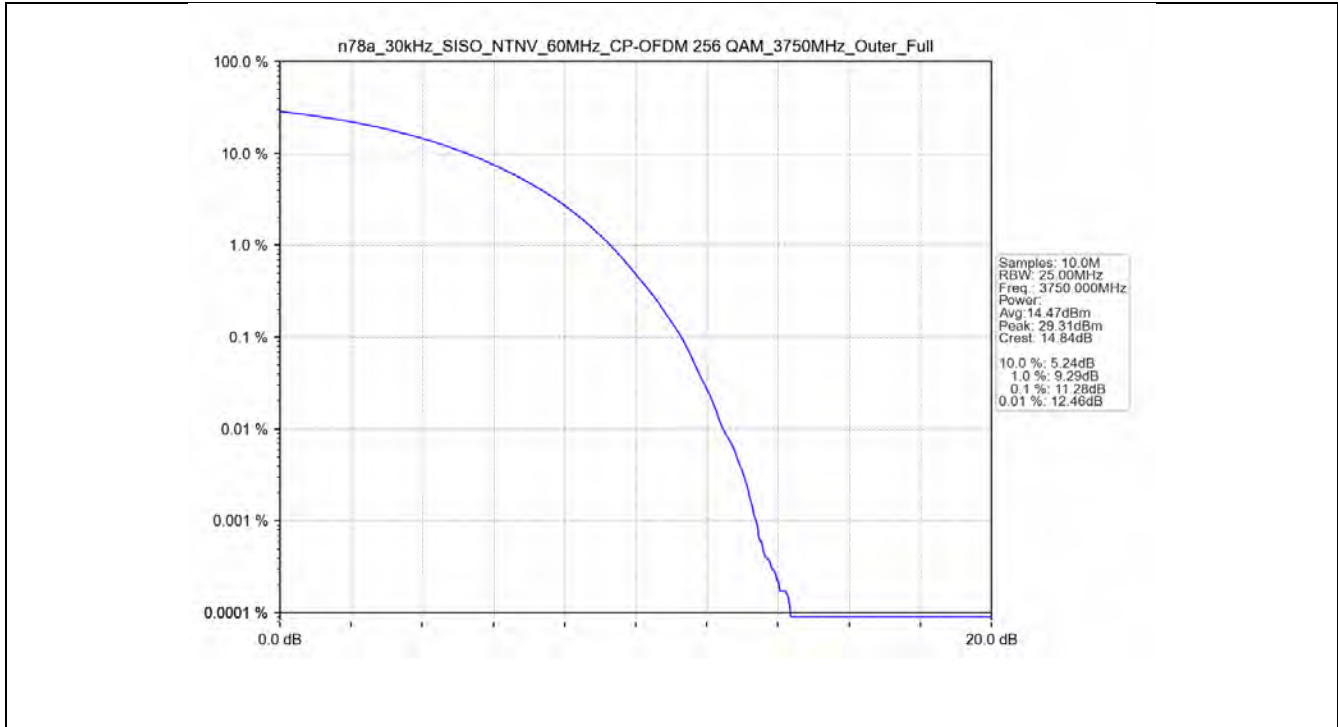


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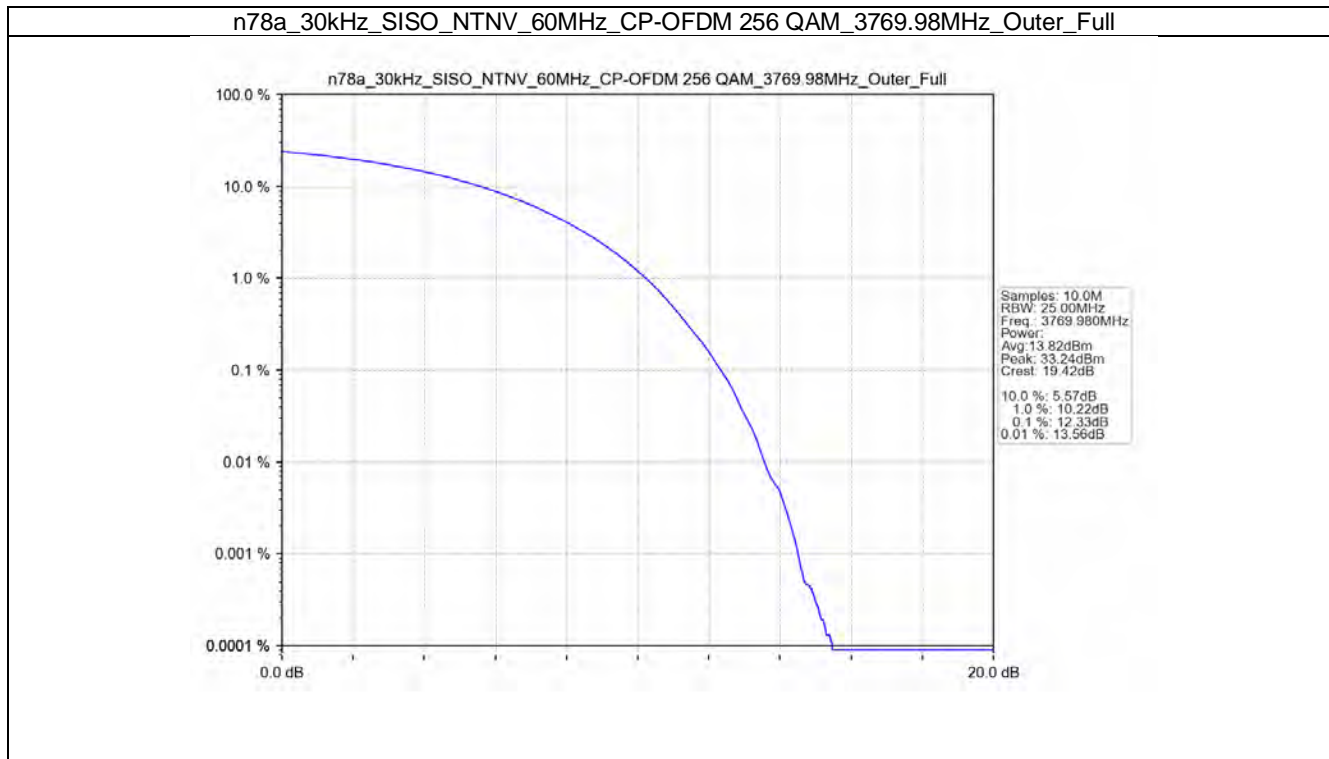
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4.6 30k_SISO_70MHz_NTNV

4.6.1 Test Result

5G NR n78a SCS=30kHz SISO 70MHz NNTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3735	Outer_Full	10.46	/	/	<=13	Pass
	3750	Outer_Full	9.90	/	/	<=13	Pass
	3765	Outer_Full	10.71	/	/	<=13	Pass
DFT-s-OFDM QPSK	3735	Outer_Full	10.65	/	/	<=13	Pass
	3750	Outer_Full	12.80	/	/	<=13	Pass
	3765	Outer_Full	10.76	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3735	Outer_Full	10.72	/	/	<=13	Pass
	3750	Outer_Full	12.09	/	/	<=13	Pass
	3765	Outer_Full	11.63	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3735	Outer_Full	10.80	/	/	<=13	Pass
	3750	Outer_Full	11.32	/	/	<=13	Pass
	3765	Outer_Full	10.45	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3735	Outer_Full	10.93	/	/	<=13	Pass
	3750	Outer_Full	11.17	/	/	<=13	Pass
	3765	Outer_Full	10.74	/	/	<=13	Pass
CP-OFDM QPSK	3735	Outer_Full	12.23	/	/	<=13	Pass
	3750	Outer_Full	11.54	/	/	<=13	Pass
	3765	Outer_Full	11.72	/	/	<=13	Pass
CP-OFDM 16 QAM	3735	Outer_Full	11.96	/	/	<=13	Pass
	3750	Outer_Full	11.95	/	/	<=13	Pass
	3765	Outer_Full	11.87	/	/	<=13	Pass
CP-OFDM 64 QAM	3735	Outer_Full	12.10	/	/	<=13	Pass
	3750	Outer_Full	11.62	/	/	<=13	Pass
	3765	Outer_Full	11.94	/	/	<=13	Pass
CP-OFDM 256 QAM	3735	Outer_Full	11.50	/	/	<=13	Pass
	3750	Outer_Full	11.70	/	/	<=13	Pass
	3765	Outer_Full	12.24	/	/	<=13	Pass



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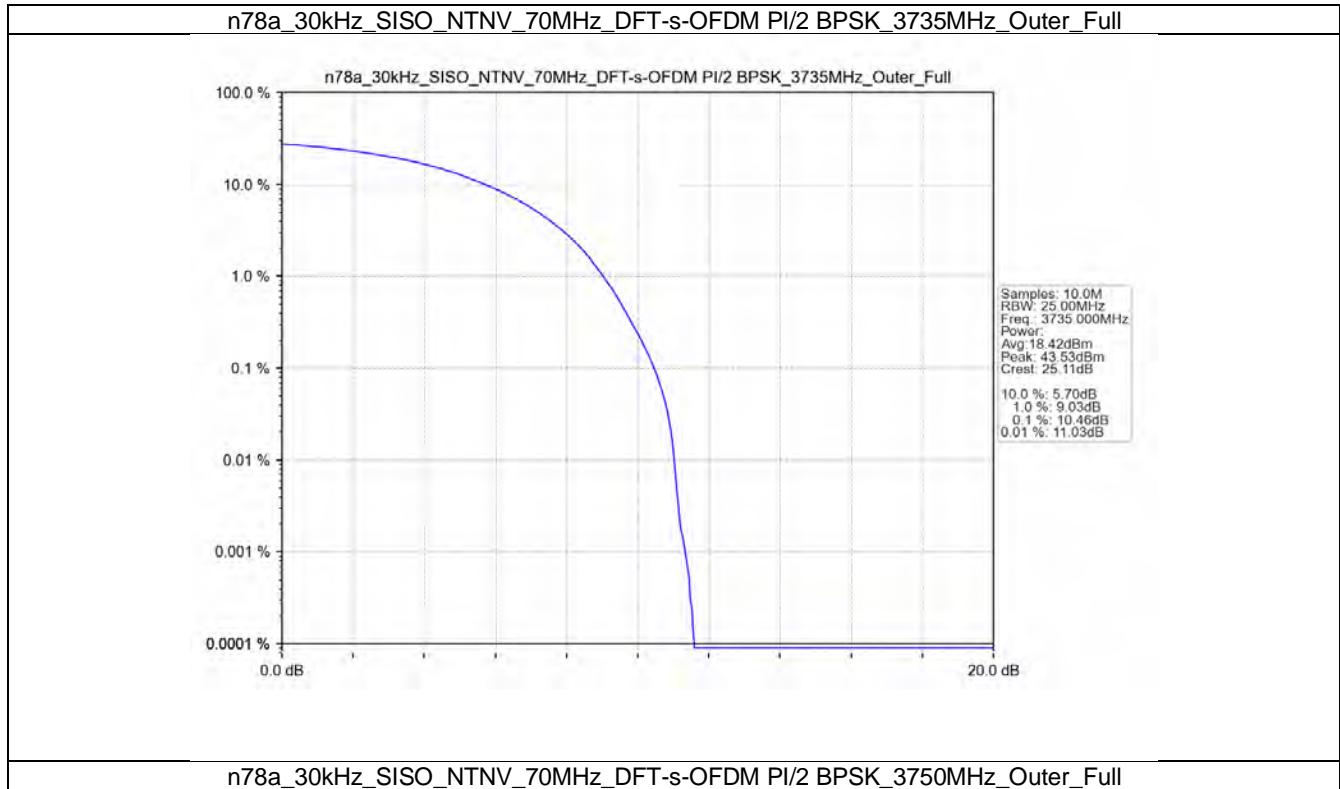
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4.6.2 Test Graph



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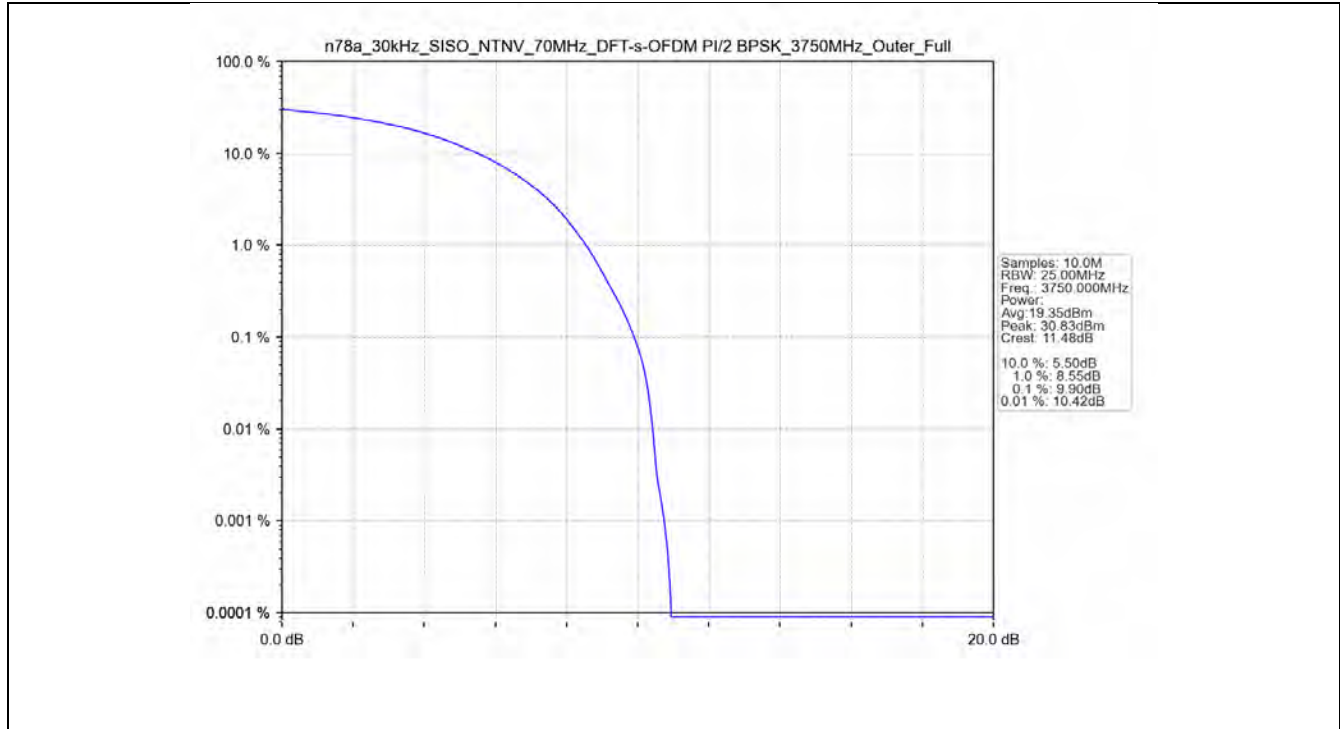


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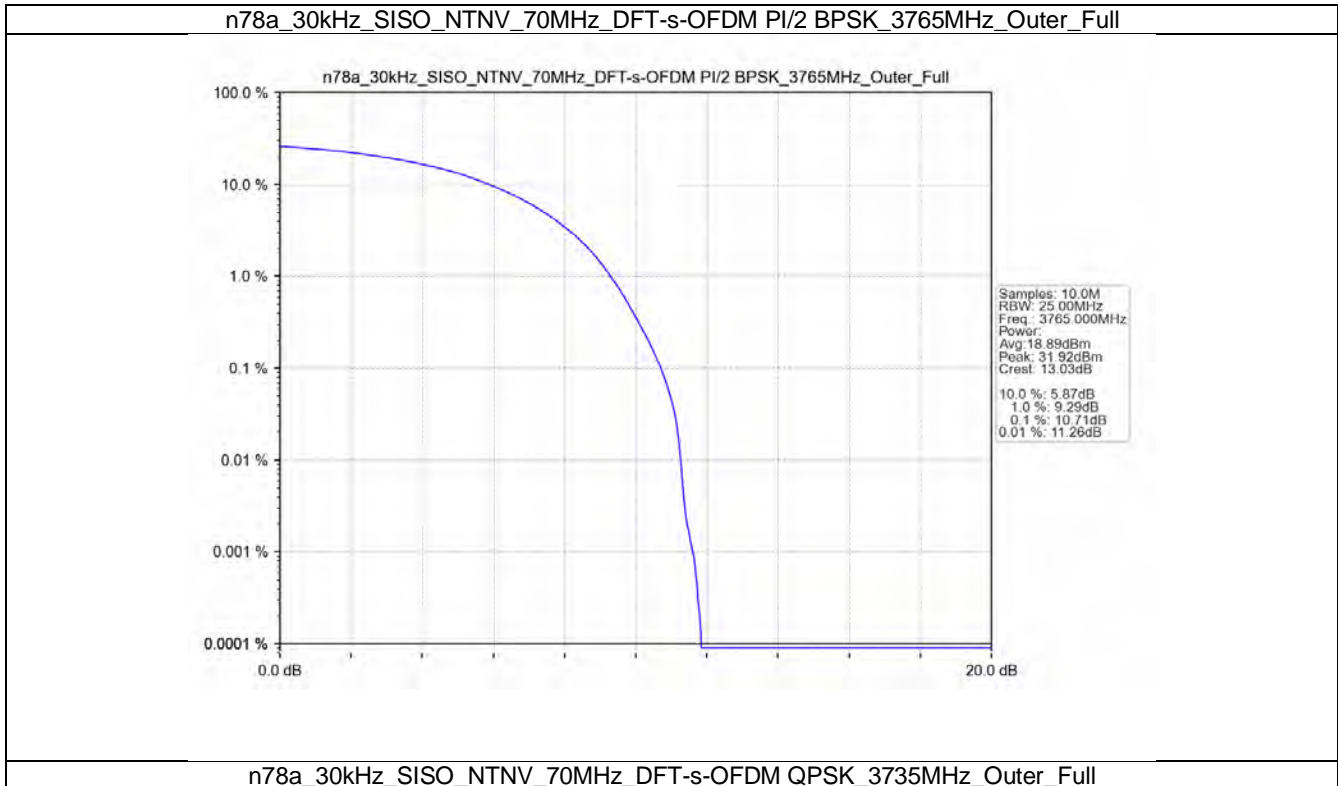


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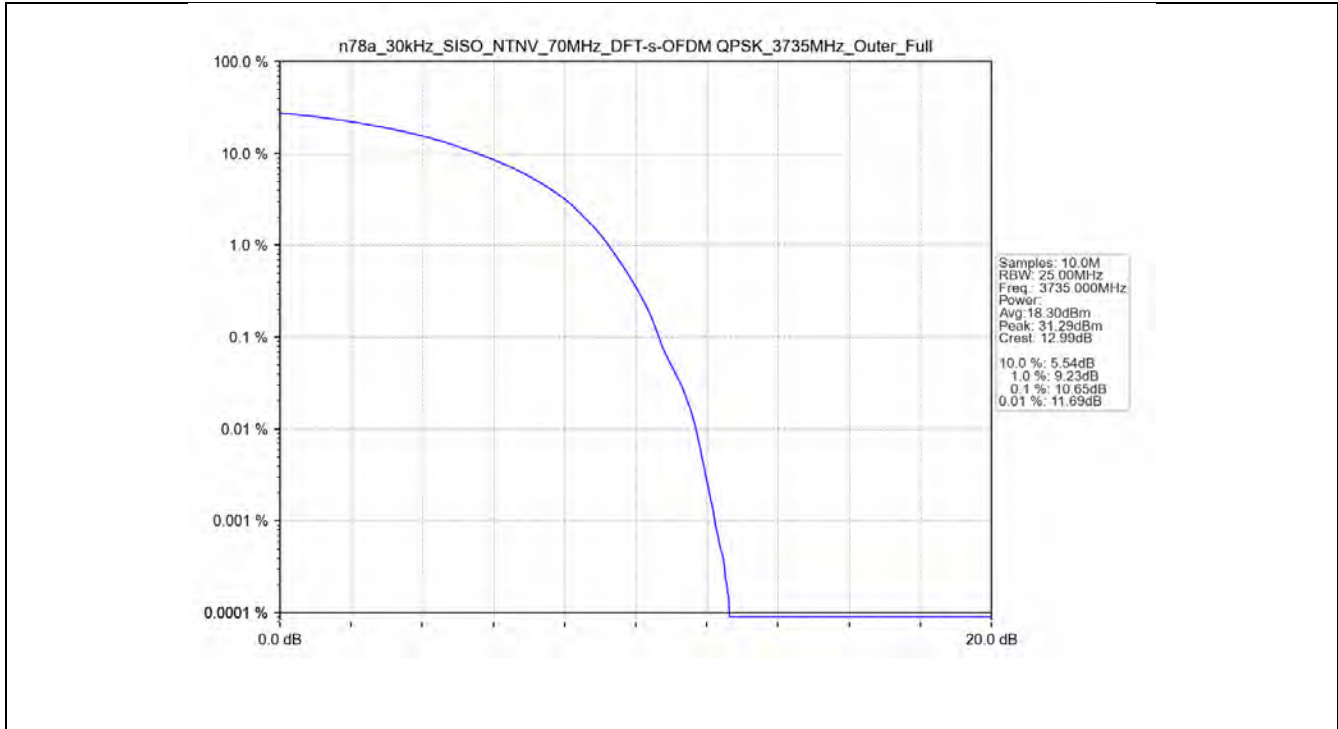


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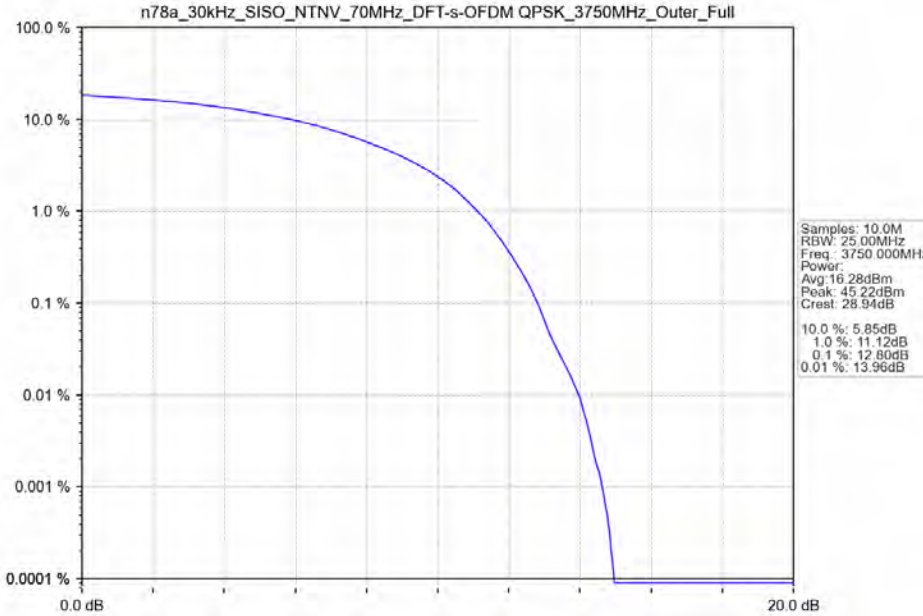
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n78a_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM QPSK_3750MHz_Outer_Full



n78a_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM QPSK_3765MHz_Outer_Full



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