

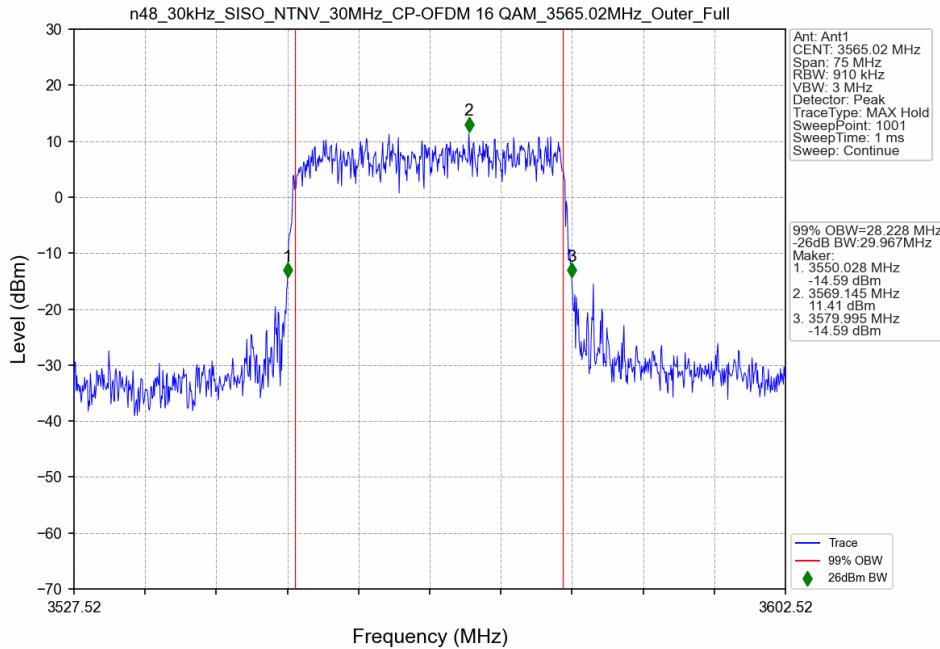
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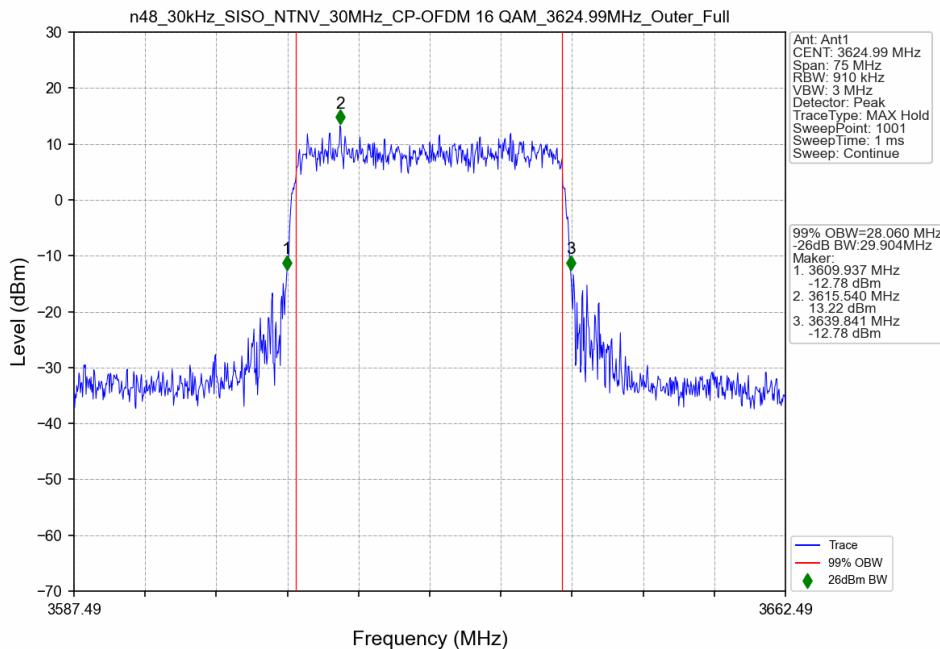
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n48_30kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_3565.02MHz_Outer_Full



n48_30kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_3624.99MHz_Outer_Full



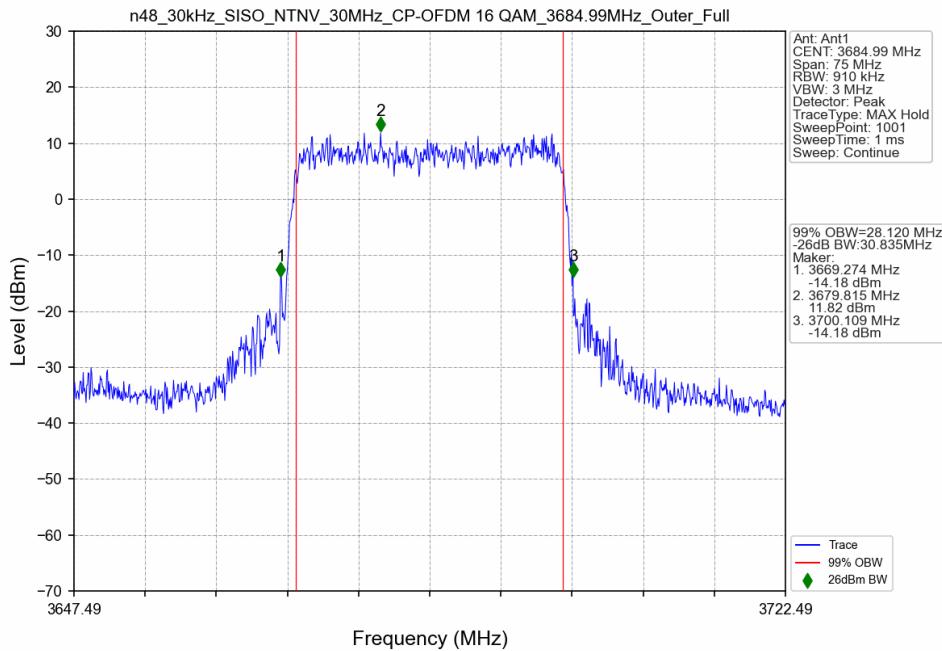
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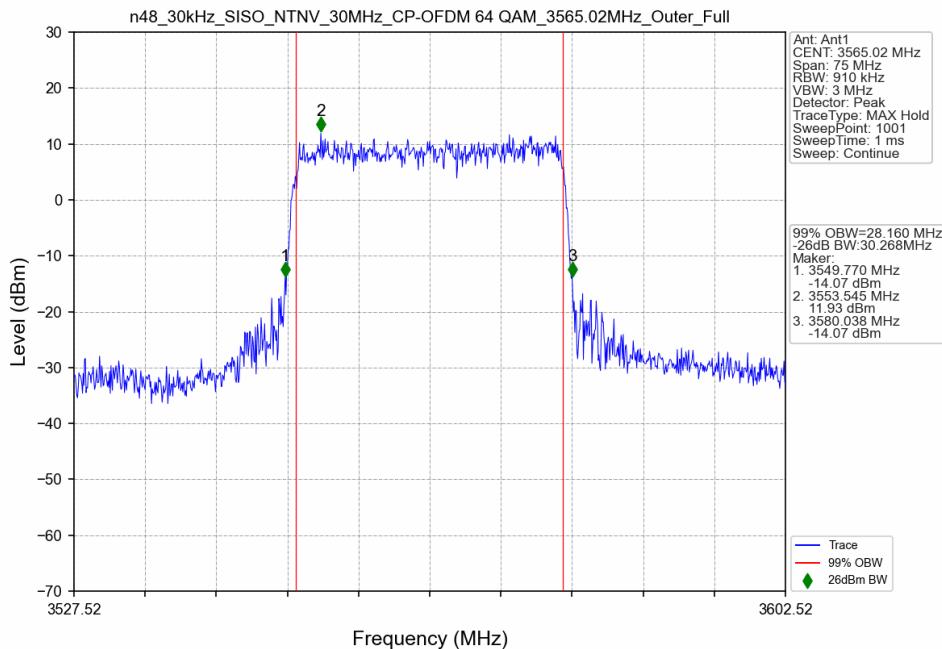
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n48_30kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_3684.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_3565.02MHz_Outer_Full



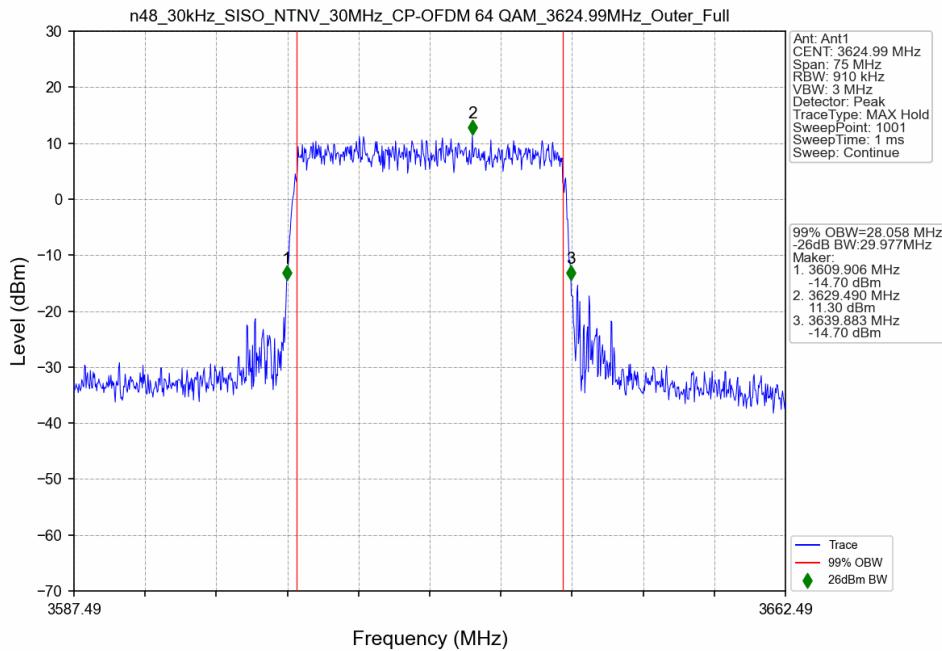
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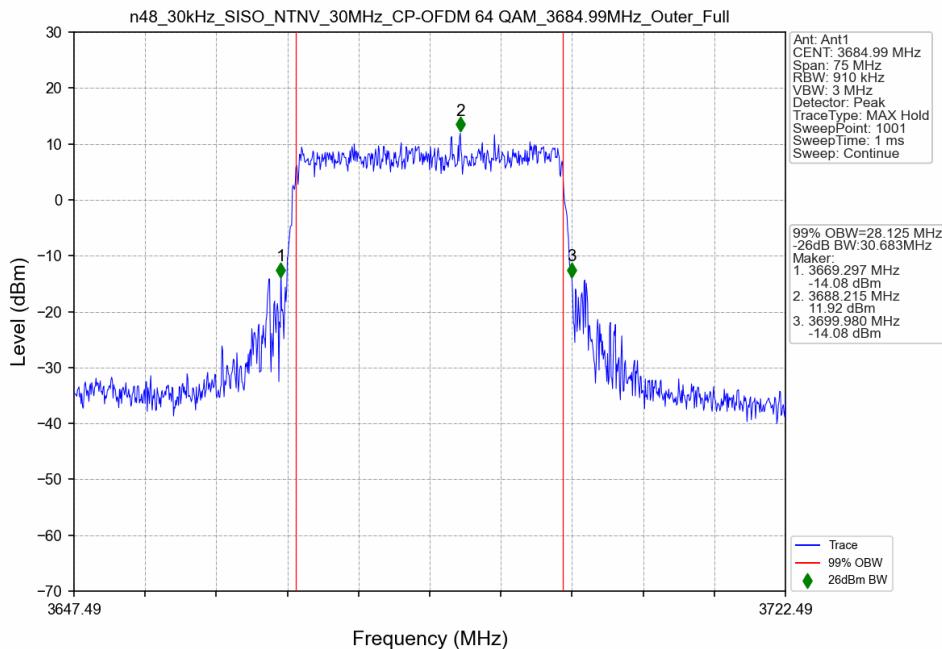
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n48_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_3684.99MHz_Outer_Full

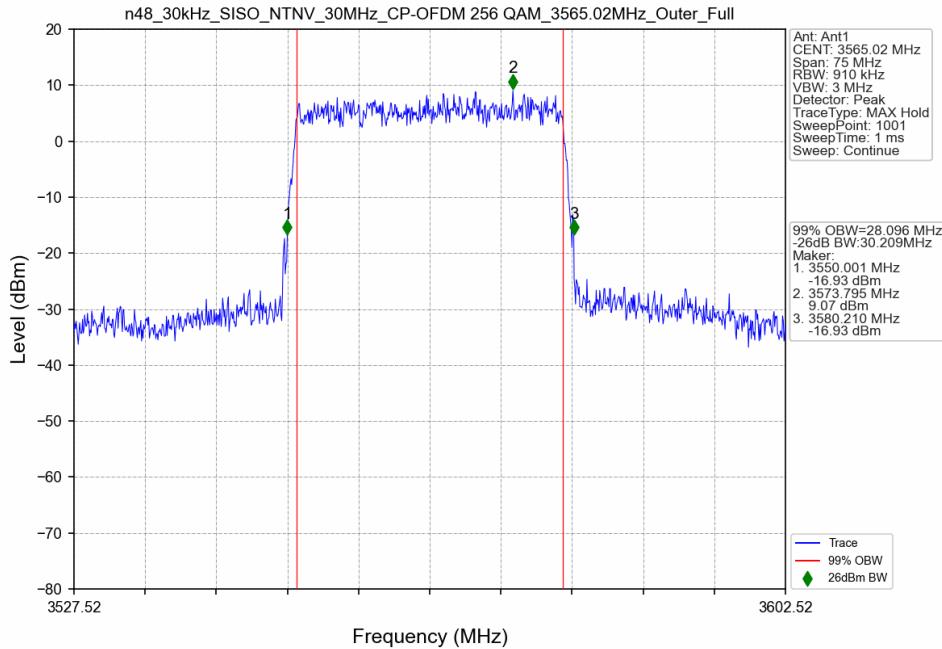


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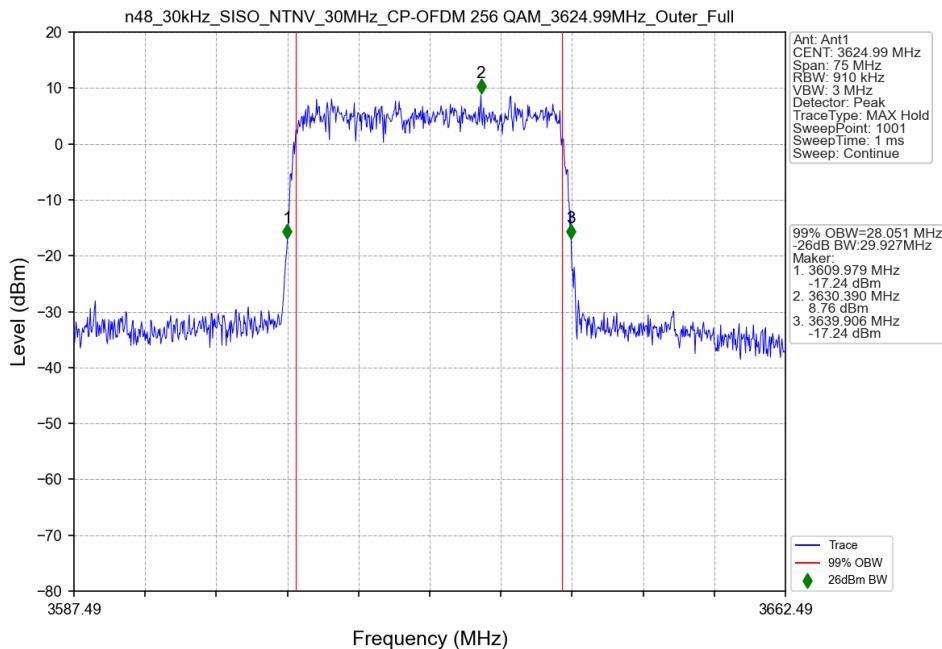
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n48_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_3565.02MHz_Outer_Full



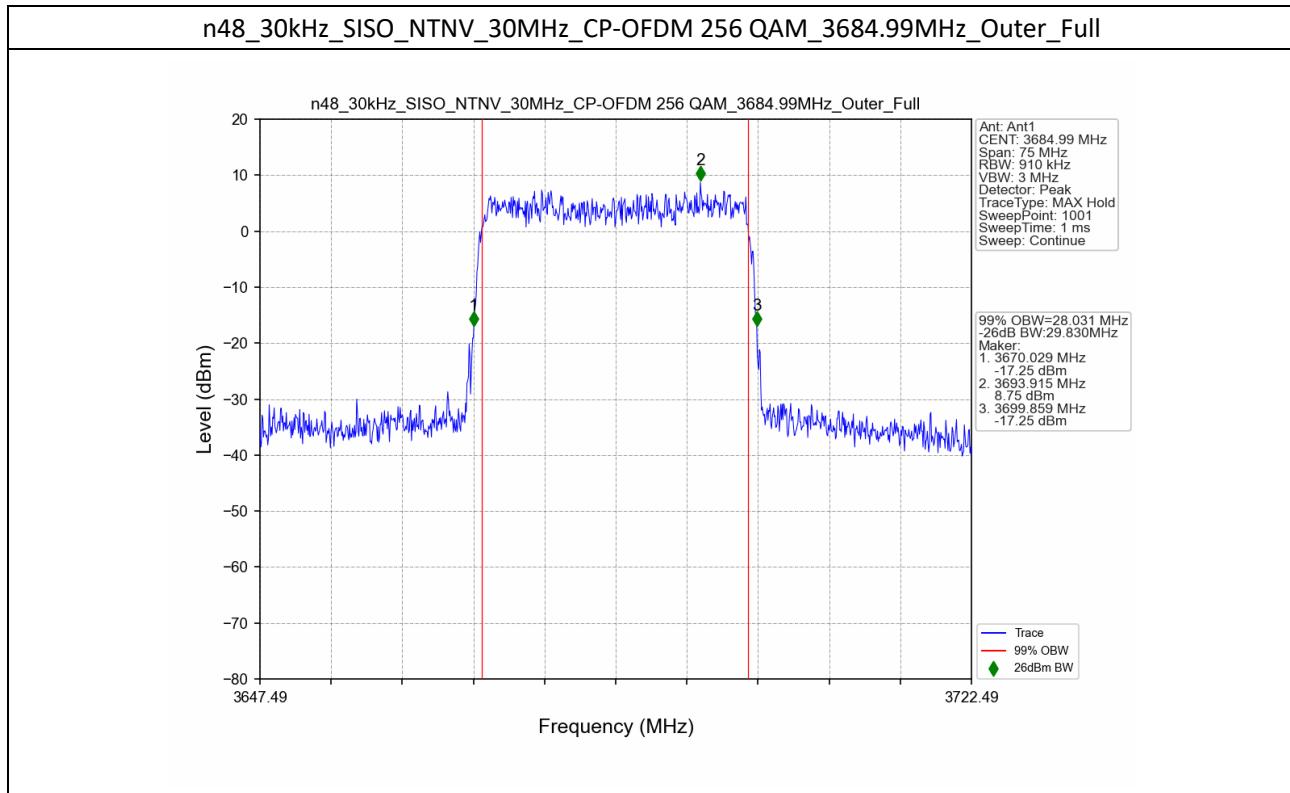
n48_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_3624.99MHz_Outer_Full



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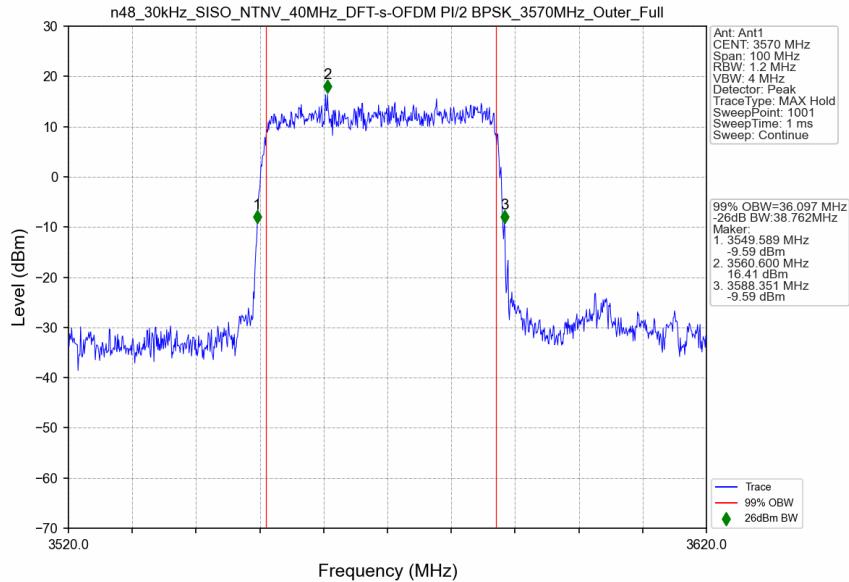
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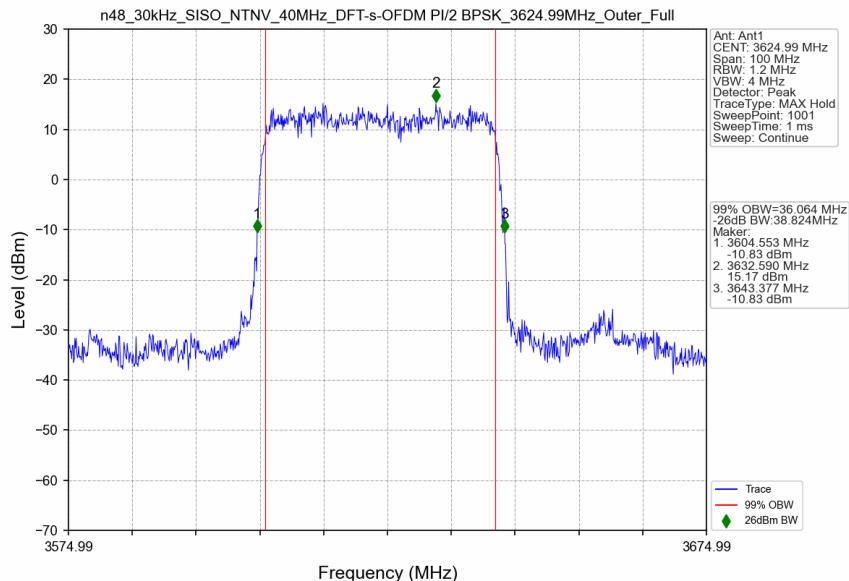
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3.2.4 30k_SISO_40MHz_NTNV

n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3570MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3624.99MHz_Outer_Full

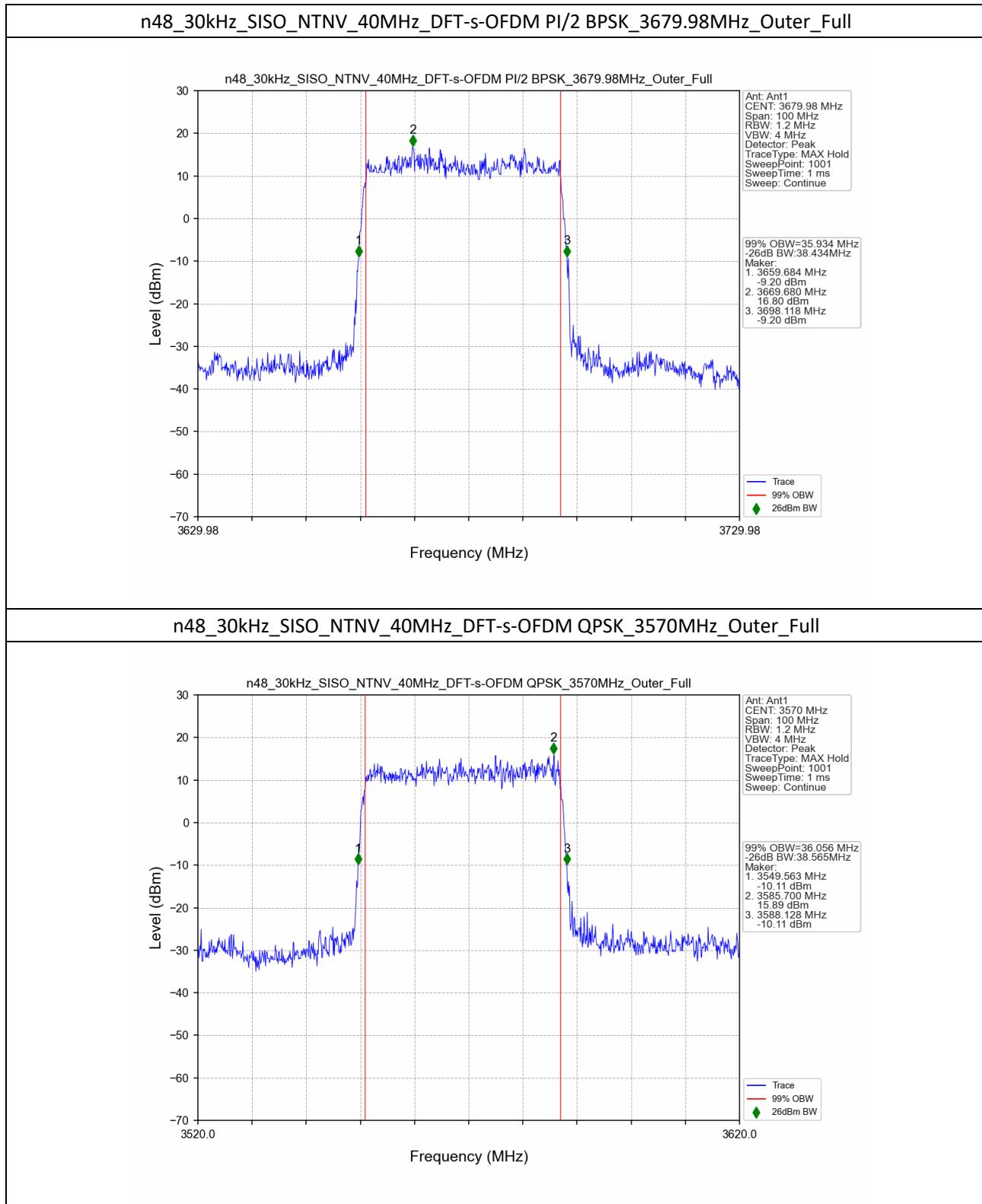


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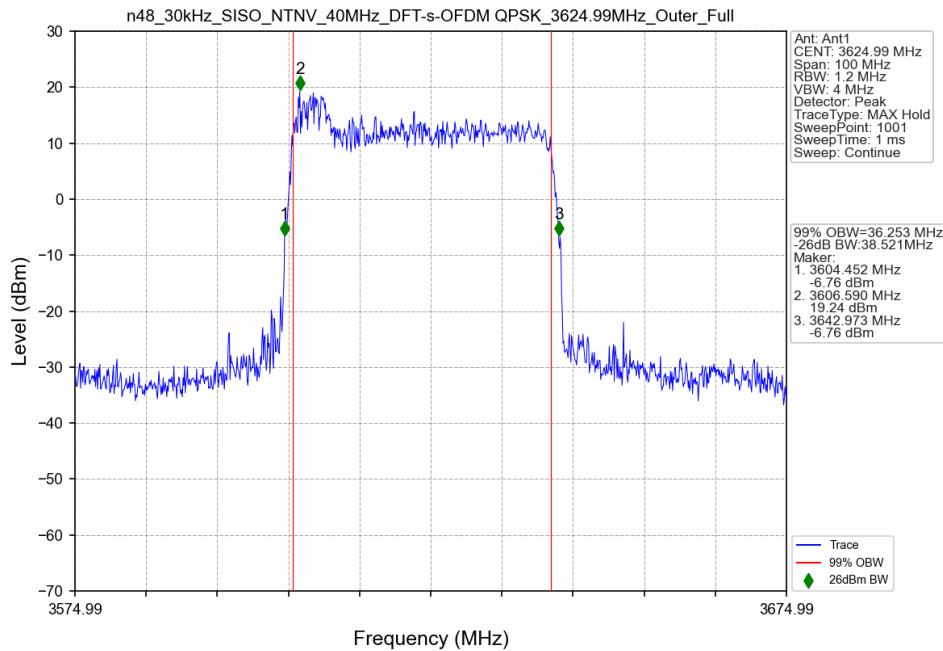


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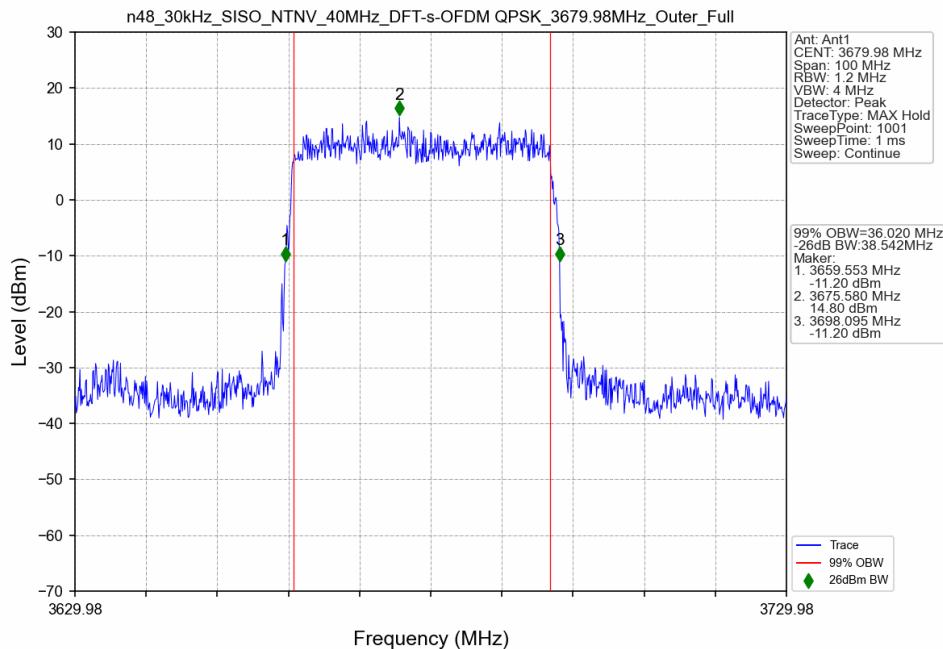
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3624.99MHz_Outer_Full



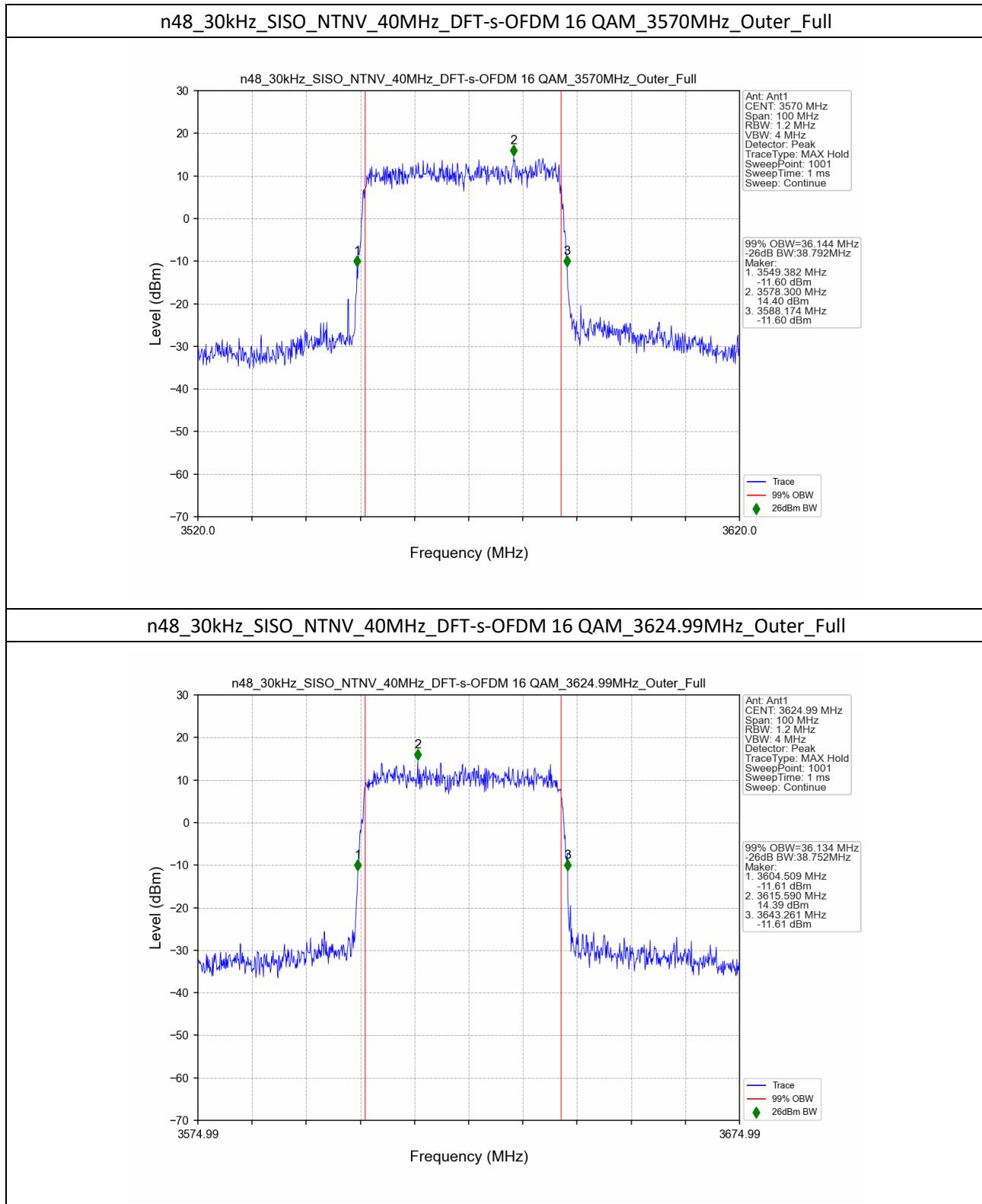
n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3679.98MHz_Outer_Full



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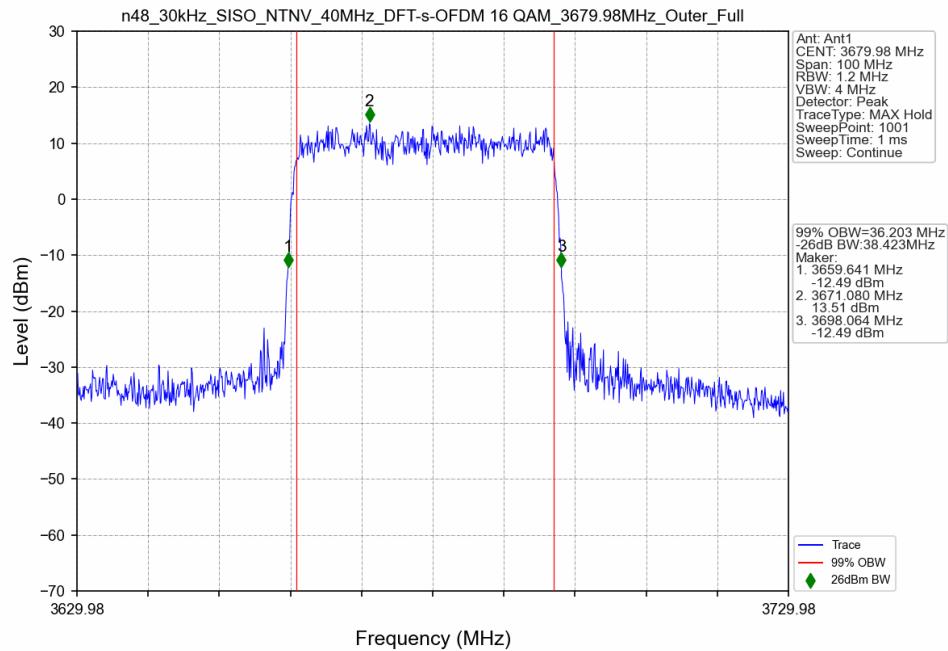


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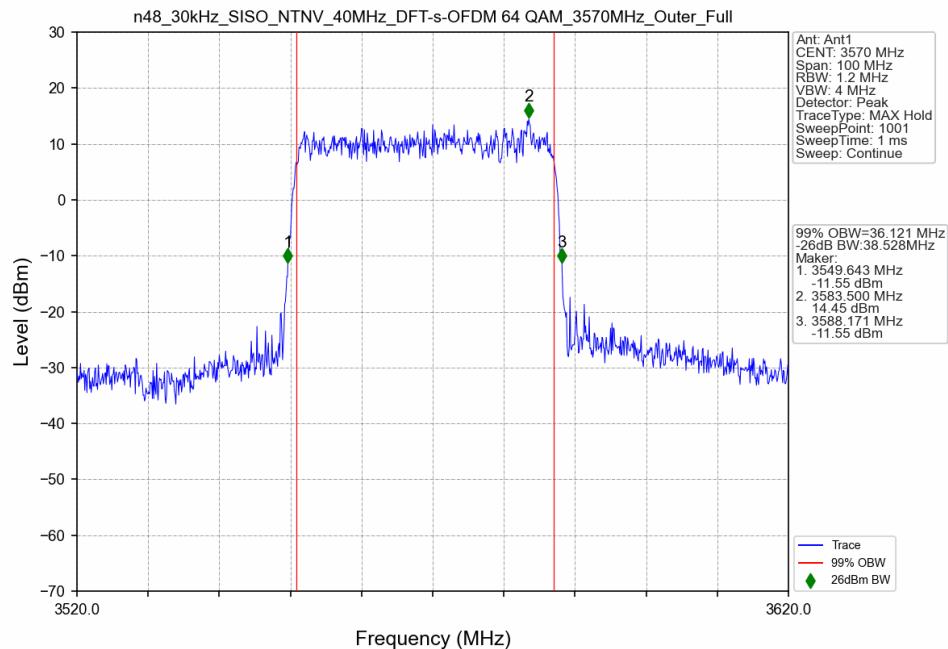
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_3679.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_3570MHz_Outer_Full

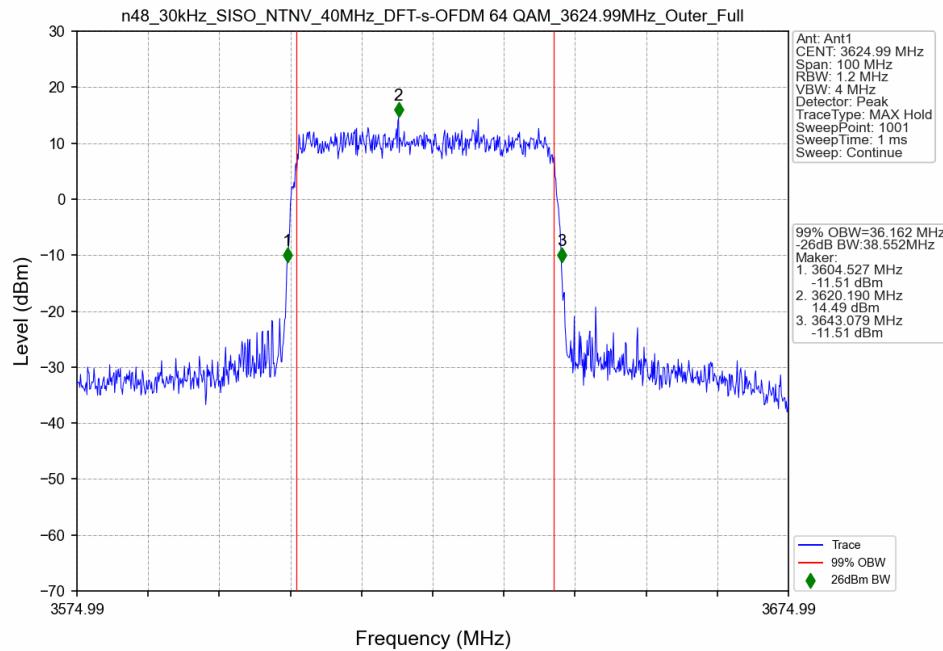


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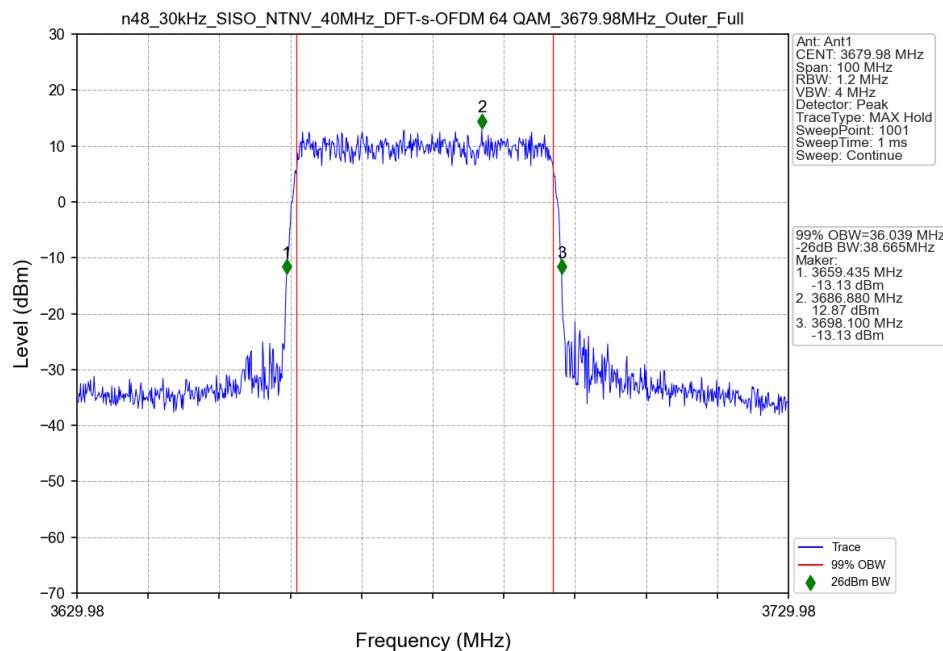
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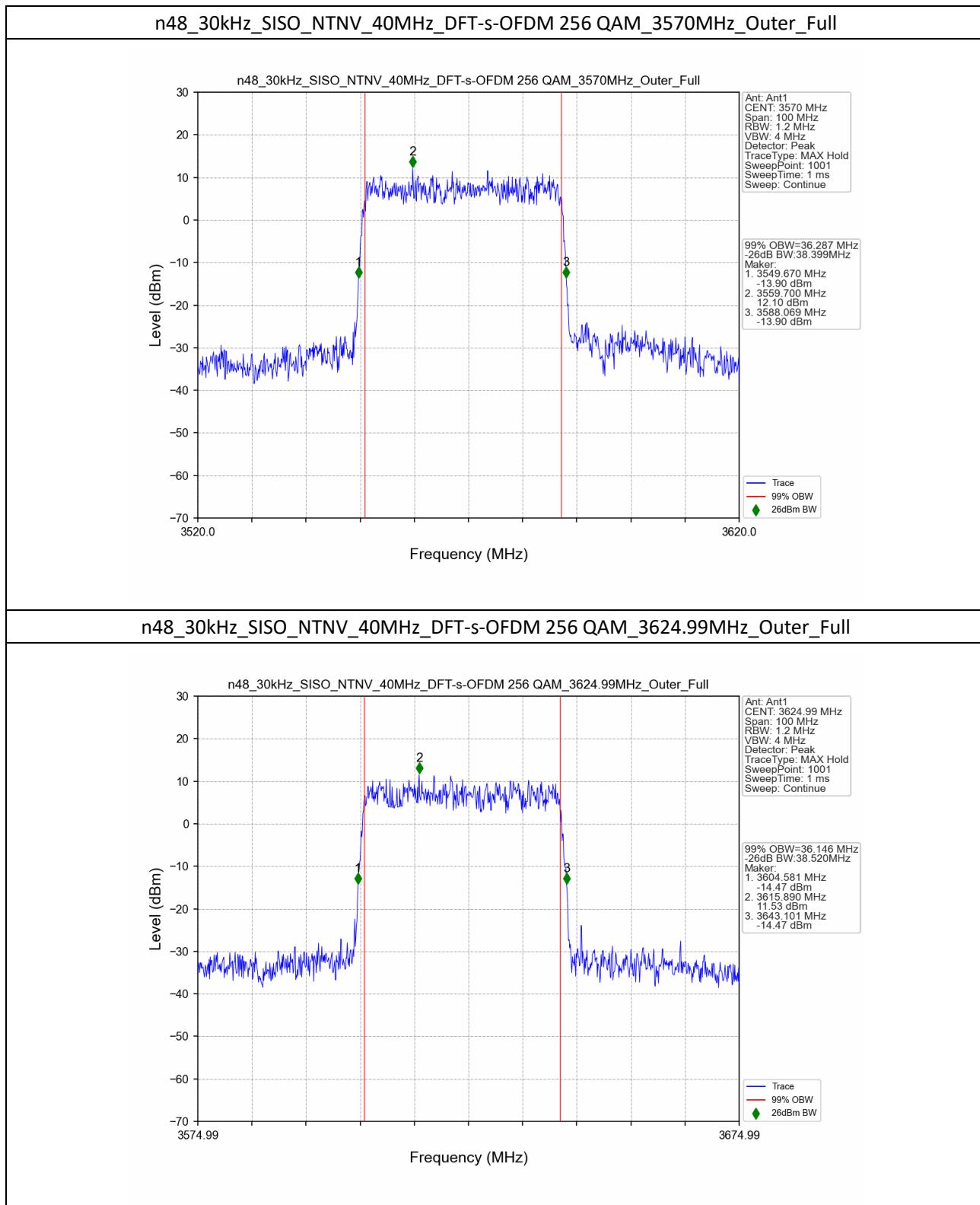
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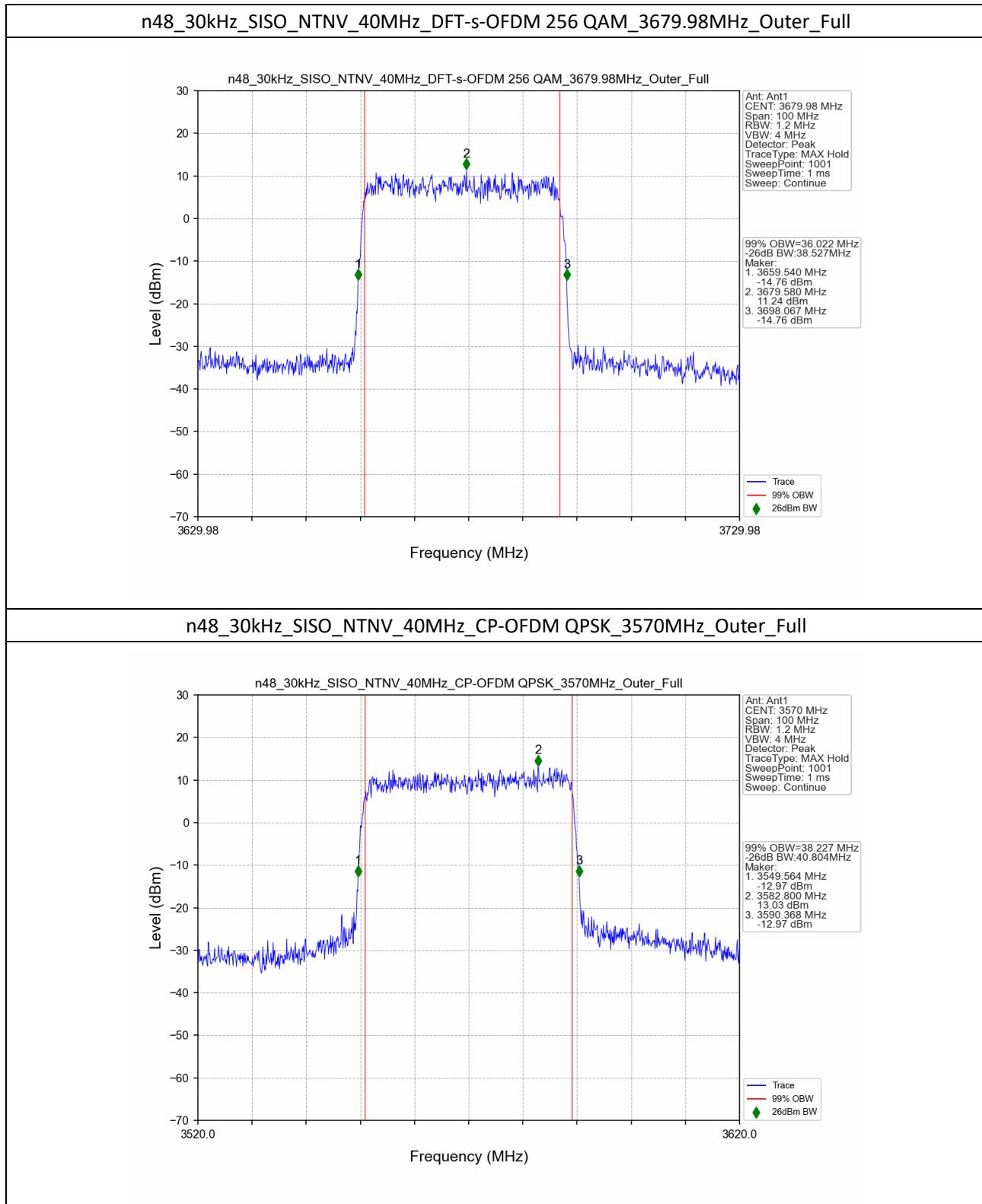
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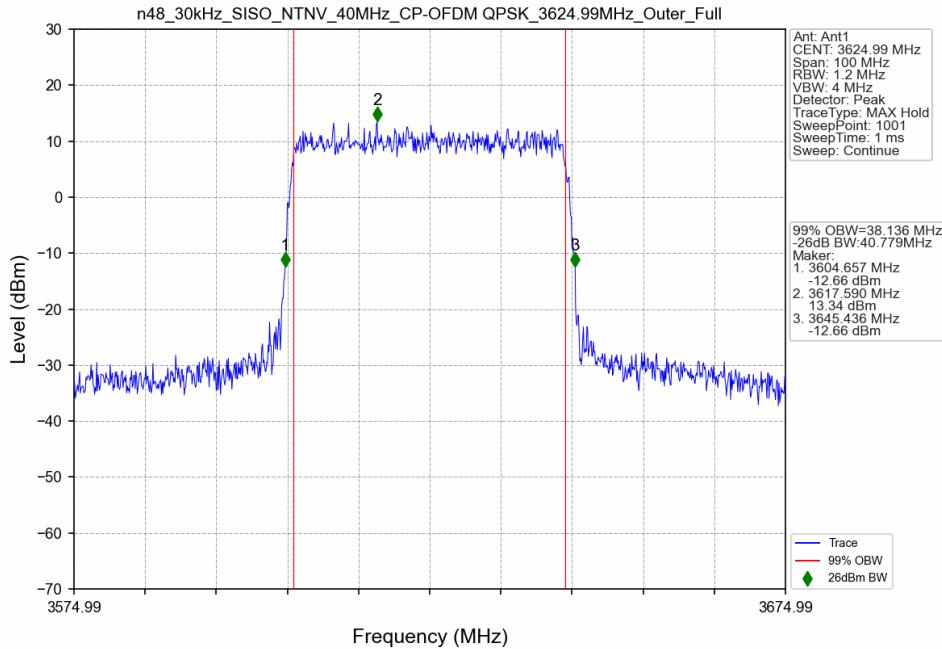
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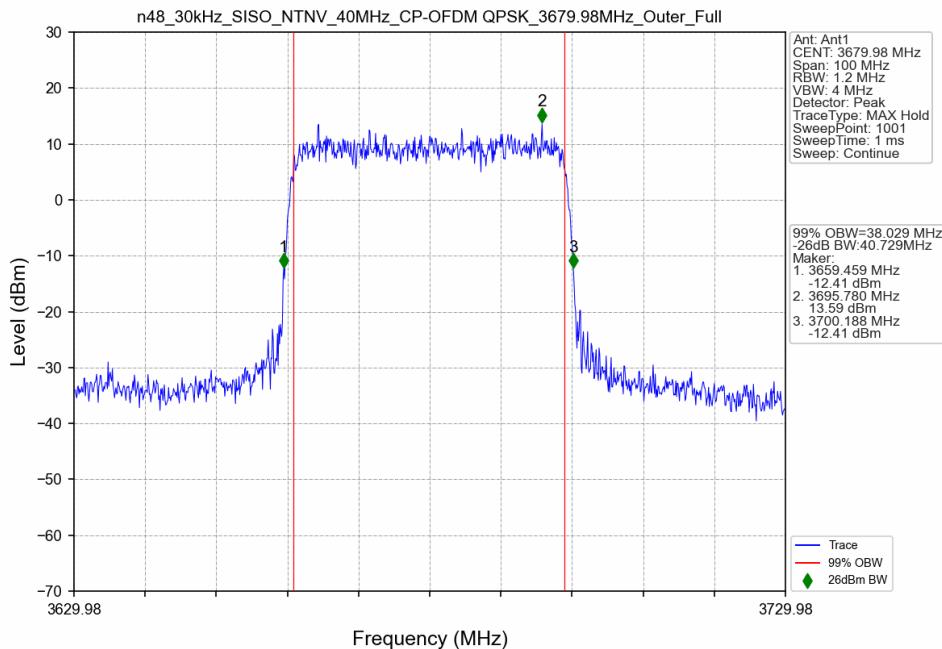
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3679.98MHz_Outer_Full



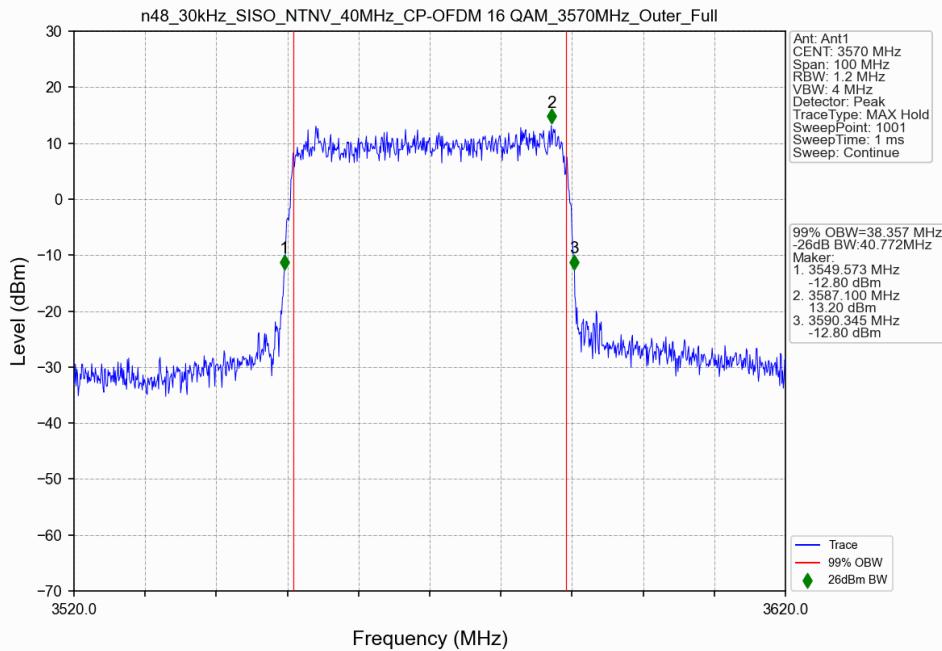
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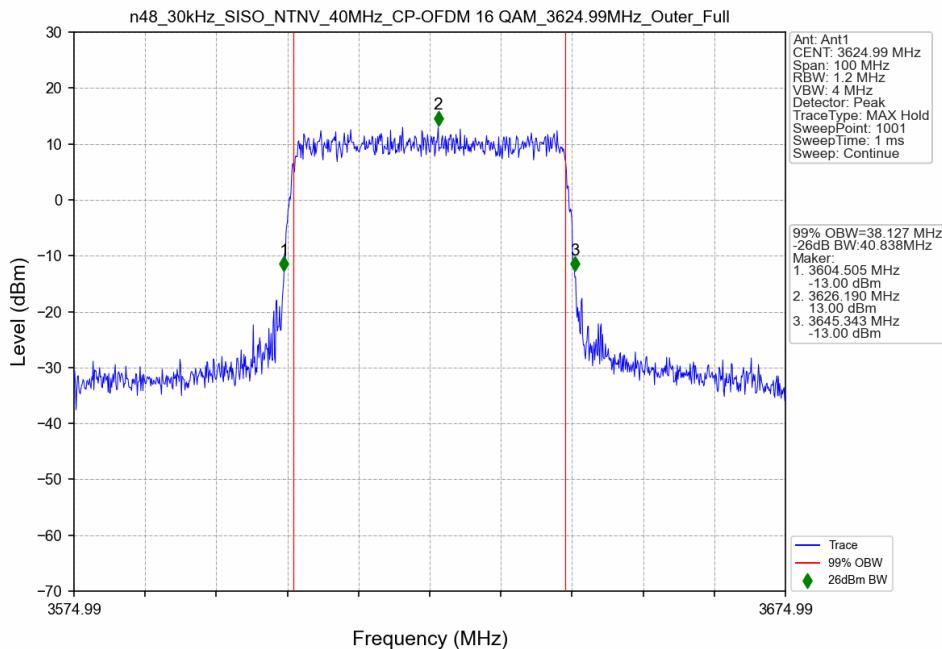
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_3570MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_3624.99MHz_Outer_Full



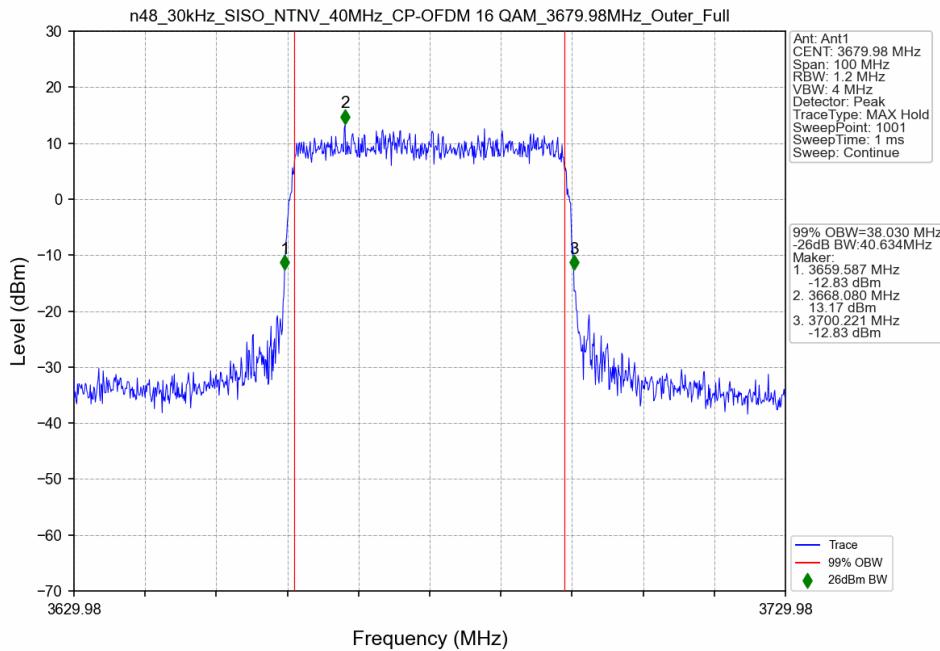
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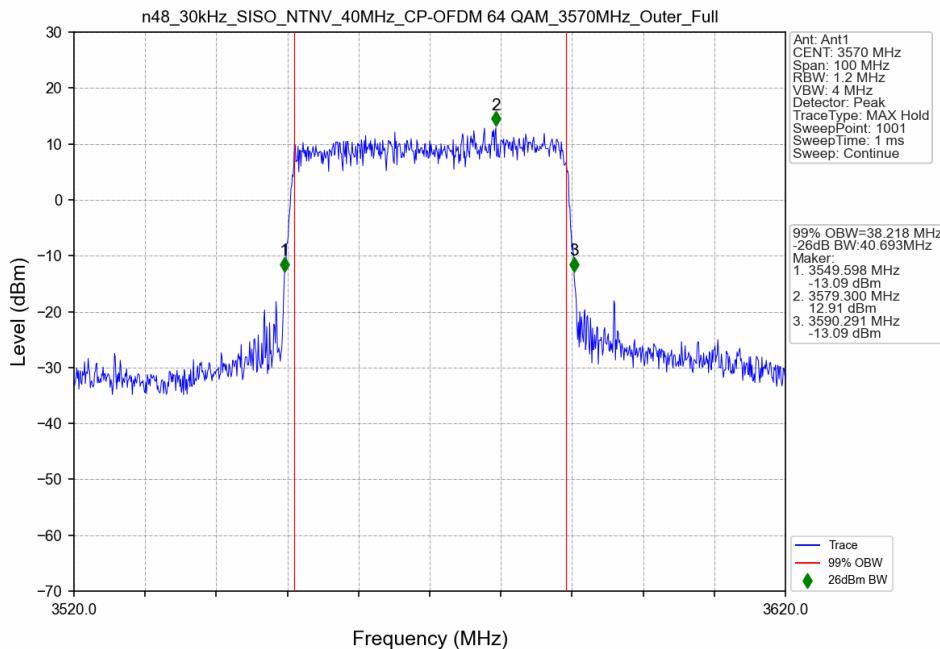
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_3679.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_3570MHz_Outer_Full



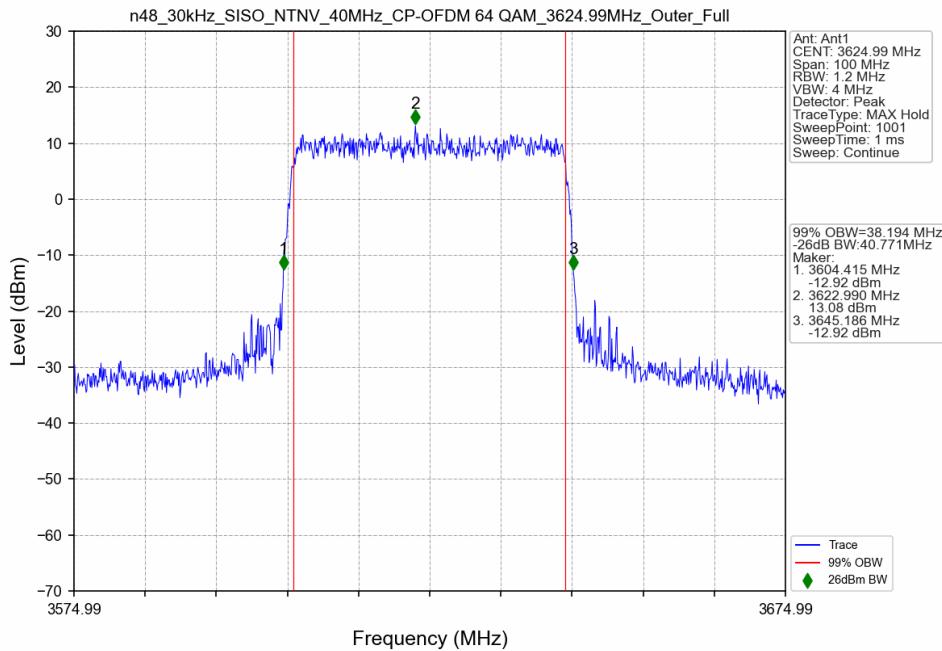
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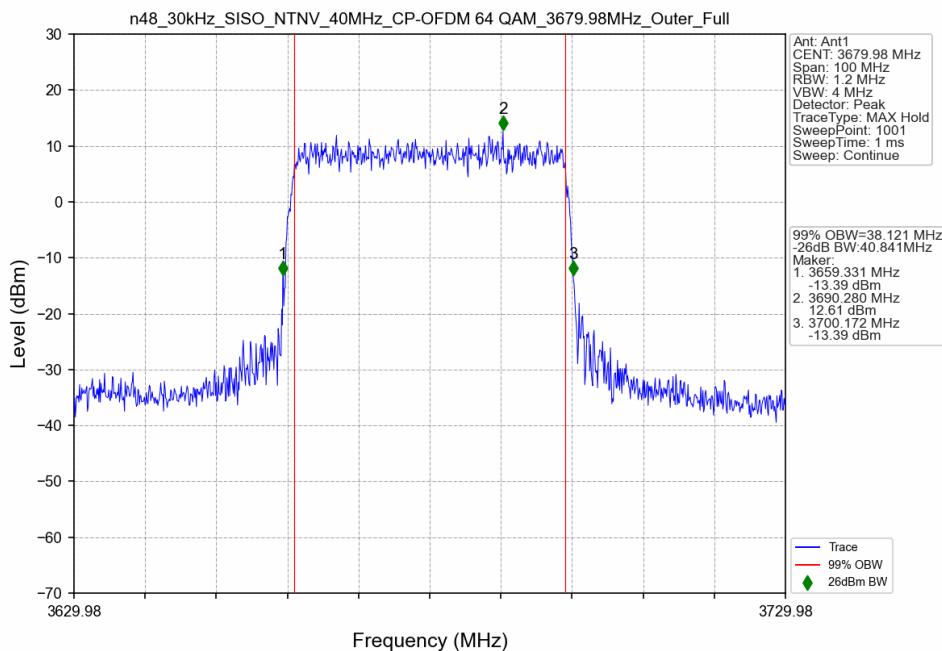
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_3679.98MHz_Outer_Full



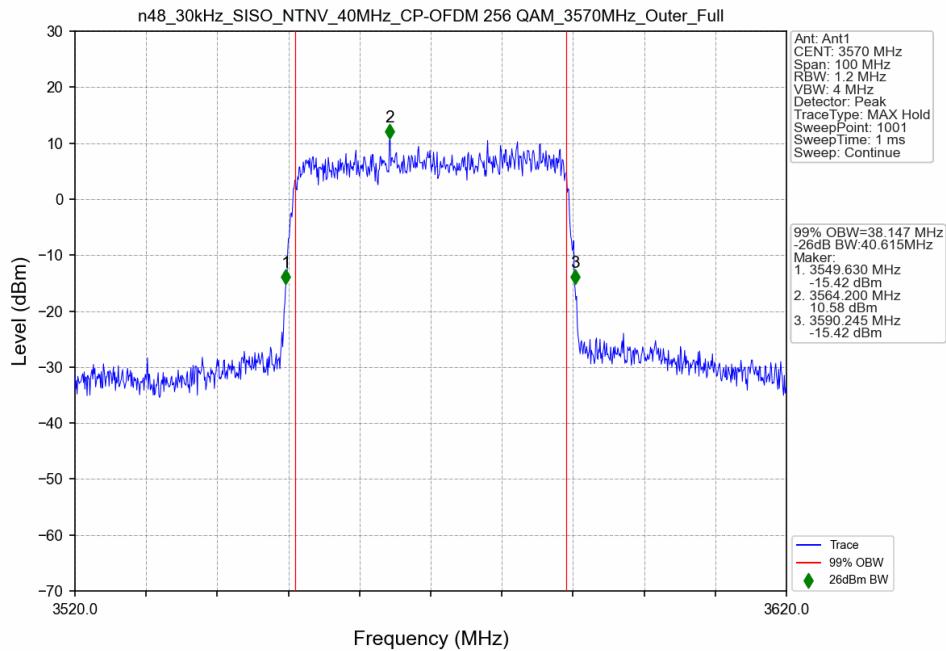
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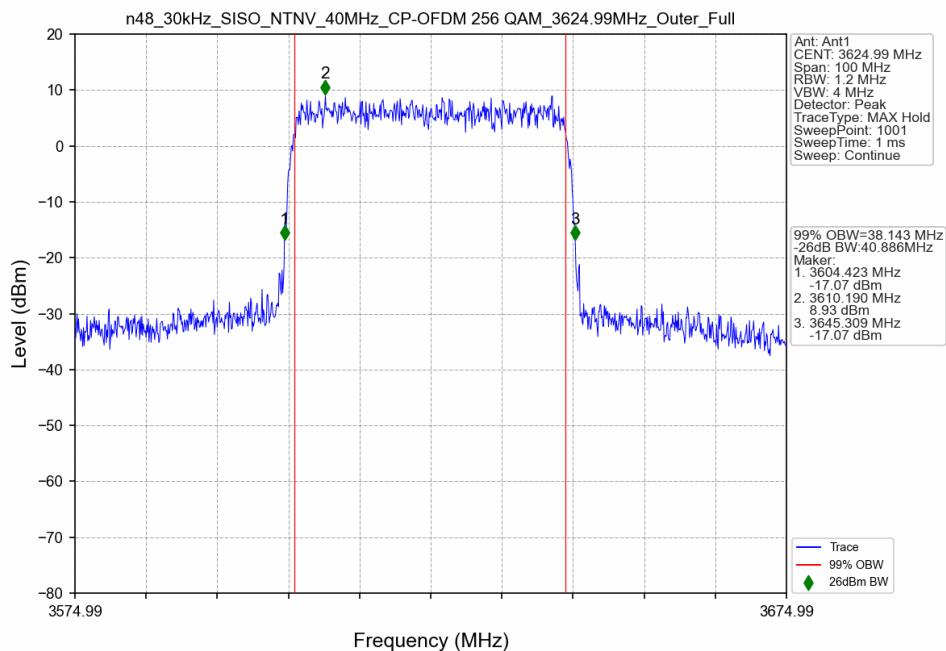
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n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_3570MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_3624.99MHz_Outer_Full

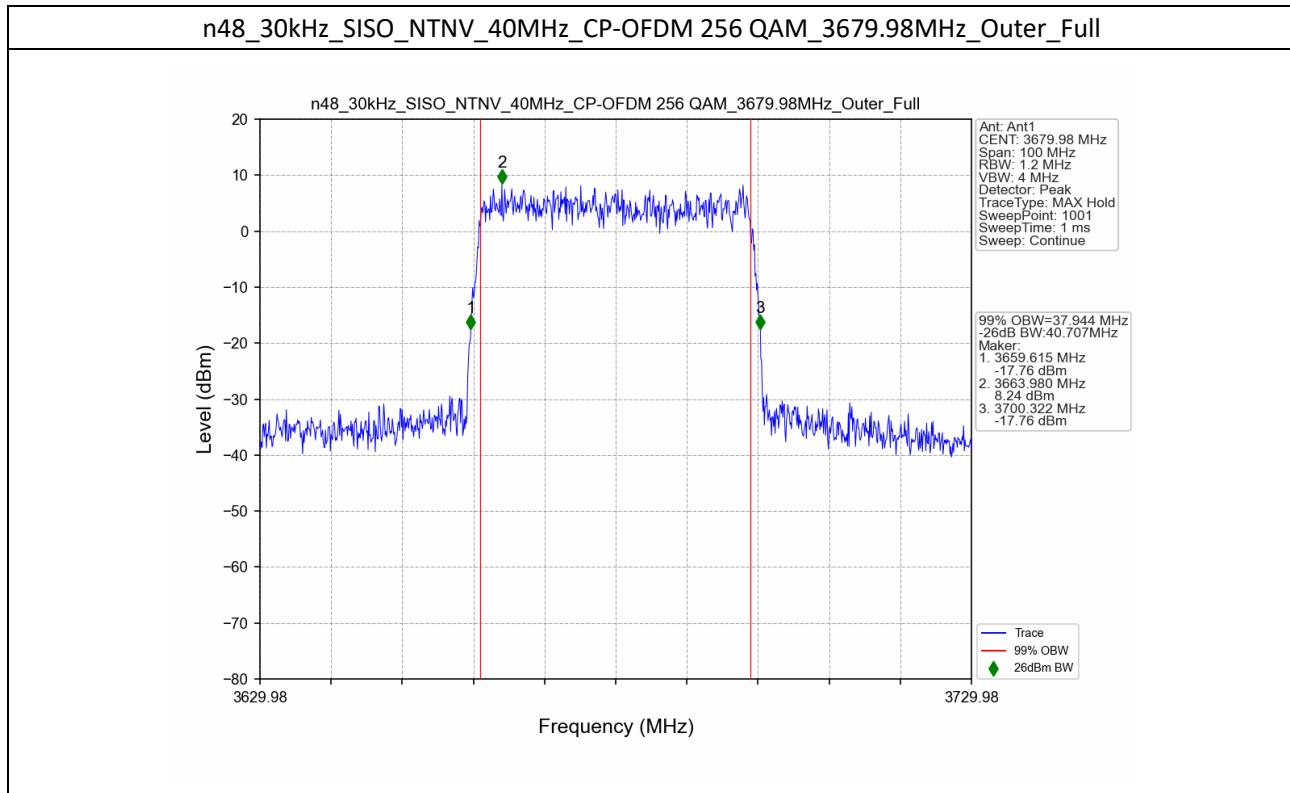


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4. Peak-Average Ratio

4.1 Test Result

4.1.1 30k_SISO_10MHz_NTNV

Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3555	Outer_Full	7.83	/	/	<=13	Pass
	3624.99	Outer_Full	8.00	/	/	<=13	Pass
	3694.98	Outer_Full	8.12	/	/	<=13	Pass
DFT-s-OFDM QPSK	3555	Outer_Full	9.16	/	/	<=13	Pass
	3624.99	Outer_Full	8.93	/	/	<=13	Pass
	3694.98	Outer_Full	9.12	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3555	Outer_Full	9.59	/	/	<=13	Pass
	3624.99	Outer_Full	9.62	/	/	<=13	Pass
	3694.98	Outer_Full	10.51	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3555	Outer_Full	9.72	/	/	<=13	Pass
	3624.99	Outer_Full	9.83	/	/	<=13	Pass
	3694.98	Outer_Full	10.11	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3555	Outer_Full	10.14	/	/	<=13	Pass
	3624.99	Outer_Full	10.82	/	/	<=13	Pass
	3694.98	Outer_Full	11.32	/	/	<=13	Pass
CP-OFDM QPSK	3555	Outer_Full	12.00	/	/	<=13	Pass
	3624.99	Outer_Full	11.24	/	/	<=13	Pass
	3694.98	Outer_Full	10.38	/	/	<=13	Pass
CP-OFDM 16 QAM	3555	Outer_Full	10.68	/	/	<=13	Pass
	3624.99	Outer_Full	11.92	/	/	<=13	Pass
	3694.98	Outer_Full	11.59	/	/	<=13	Pass
CP-OFDM 64 QAM	3555	Outer_Full	10.73	/	/	<=13	Pass
	3624.99	Outer_Full	11.54	/	/	<=13	Pass
	3694.98	Outer_Full	11.65	/	/	<=13	Pass
CP-OFDM 256 QAM	3555	Outer_Full	11.81	/	/	<=13	Pass
	3624.99	Outer_Full	12.98	/	/	<=13	Pass
	3694.98	Outer_Full	11.56	/	/	<=13	Pass



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4.1.2 30k_SISO_20MHz_NTNV

5G NR n48 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	7.93	/	/	<=13	Pass
	3624.99	Outer_Full	7.92	/	/	<=13	Pass
	3690	Outer_Full	8.18	/	/	<=13	Pass
DFT-s-OFDM QPSK	3560.01	Outer_Full	8.78	/	/	<=13	Pass
	3624.99	Outer_Full	8.75	/	/	<=13	Pass
	3690	Outer_Full	8.86	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3560.01	Outer_Full	9.59	/	/	<=13	Pass
	3624.99	Outer_Full	9.56	/	/	<=13	Pass
	3690	Outer_Full	12.54	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3560.01	Outer_Full	9.43	/	/	<=13	Pass
	3624.99	Outer_Full	9.98	/	/	<=13	Pass
	3690	Outer_Full	10.07	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3560.01	Outer_Full	9.91	/	/	<=13	Pass
	3624.99	Outer_Full	10.14	/	/	<=13	Pass
	3690	Outer_Full	10.10	/	/	<=13	Pass
CP-OFDM QPSK	3560.01	Outer_Full	10.90	/	/	<=13	Pass
	3624.99	Outer_Full	10.96	/	/	<=13	Pass
	3690	Outer_Full	11.21	/	/	<=13	Pass
CP-OFDM 16 QAM	3560.01	Outer_Full	10.80	/	/	<=13	Pass
	3624.99	Outer_Full	10.90	/	/	<=13	Pass
	3690	Outer_Full	10.88	/	/	<=13	Pass
CP-OFDM 64 QAM	3560.01	Outer_Full	11.40	/	/	<=13	Pass
	3624.99	Outer_Full	11.26	/	/	<=13	Pass
	3690	Outer_Full	11.35	/	/	<=13	Pass
CP-OFDM 256 QAM	3560.01	Outer_Full	12.11	/	/	<=13	Pass
	3624.99	Outer_Full	11.55	/	/	<=13	Pass
	3690	Outer_Full	11.59	/	/	<=13	Pass

4.1.3 30k_SISO_30MHz_NTNV

5G NR n48 SCS=30kHz SISO 30MHz NTNV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	



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DFT-s-OFDM PI/2 BPSK	3565.02	Outer_Full	7.90	/	/	<=13	Pass
	3624.99	Outer_Full	7.89	/	/	<=13	Pass
	3684.99	Outer_Full	8.16	/	/	<=13	Pass
DFT-s-OFDM QPSK	3565.02	Outer_Full	8.33	/	/	<=13	Pass
	3624.99	Outer_Full	8.55	/	/	<=13	Pass
	3684.99	Outer_Full	8.69	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3565.02	Outer_Full	9.74	/	/	<=13	Pass
	3624.99	Outer_Full	9.56	/	/	<=13	Pass
	3684.99	Outer_Full	9.90	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3565.02	Outer_Full	10.02	/	/	<=13	Pass
	3624.99	Outer_Full	9.98	/	/	<=13	Pass
	3684.99	Outer_Full	10.54	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3565.02	Outer_Full	10.36	/	/	<=13	Pass
	3624.99	Outer_Full	9.80	/	/	<=13	Pass
	3684.99	Outer_Full	10.32	/	/	<=13	Pass
CP-OFDM QPSK	3565.02	Outer_Full	10.67	/	/	<=13	Pass
	3624.99	Outer_Full	10.92	/	/	<=13	Pass
	3684.99	Outer_Full	10.65	/	/	<=13	Pass
CP-OFDM 16 QAM	3565.02	Outer_Full	10.65	/	/	<=13	Pass
	3624.99	Outer_Full	10.84	/	/	<=13	Pass
	3684.99	Outer_Full	11.19	/	/	<=13	Pass
CP-OFDM 64 QAM	3565.02	Outer_Full	11.75	/	/	<=13	Pass
	3624.99	Outer_Full	11.46	/	/	<=13	Pass
	3684.99	Outer_Full	11.77	/	/	<=13	Pass
CP-OFDM 256 QAM	3565.02	Outer_Full	11.69	/	/	<=13	Pass
	3624.99	Outer_Full	12.00	/	/	<=13	Pass
	3684.99	Outer_Full	11.86	/	/	<=13	Pass

4.1.4 30k_SISO_40MHz_NTNV

5G NR n48 SCS=30kHz SISO 40MHz NTVN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)			Verdict	
			Ant1	Ant2	Sum		
DFT-s-OFDM PI/2 BPSK	3570	Outer_Full	8.47	/	/	<=13	Pass
	3624.99	Outer_Full	7.56	/	/	<=13	Pass
	3679.98	Outer_Full	7.79	/	/	<=13	Pass
DFT-s-OFDM QPSK	3570	Outer_Full	9.42	/	/	<=13	Pass
	3624.99	Outer_Full	8.11	/	/	<=13	Pass



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	3679.98	Outer_Full	9.06	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3570	Outer_Full	9.55	/	/	<=13	Pass
	3624.99	Outer_Full	10.03	/	/	<=13	Pass
	3679.98	Outer_Full	9.65	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3570	Outer_Full	9.88	/	/	<=13	Pass
	3624.99	Outer_Full	9.86	/	/	<=13	Pass
	3679.98	Outer_Full	9.85	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3570	Outer_Full	10.00	/	/	<=13	Pass
	3624.99	Outer_Full	9.69	/	/	<=13	Pass
	3679.98	Outer_Full	10.10	/	/	<=13	Pass
CP-OFDM QPSK	3570	Outer_Full	10.27	/	/	<=13	Pass
	3624.99	Outer_Full	10.63	/	/	<=13	Pass
	3679.98	Outer_Full	11.06	/	/	<=13	Pass
CP-OFDM 16 QAM	3570	Outer_Full	11.41	/	/	<=13	Pass
	3624.99	Outer_Full	12.77	/	/	<=13	Pass
	3679.98	Outer_Full	11.21	/	/	<=13	Pass
CP-OFDM 64 QAM	3570	Outer_Full	11.80	/	/	<=13	Pass
	3624.99	Outer_Full	11.37	/	/	<=13	Pass
	3679.98	Outer_Full	11.88	/	/	<=13	Pass
CP-OFDM 256 QAM	3570	Outer_Full	11.76	/	/	<=13	Pass
	3624.99	Outer_Full	11.49	/	/	<=13	Pass
	3679.98	Outer_Full	11.81	/	/	<=13	Pass



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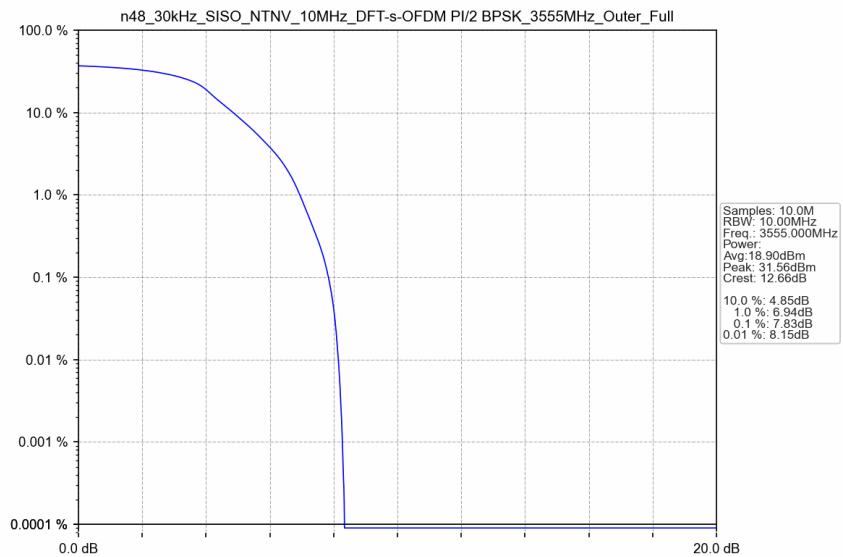
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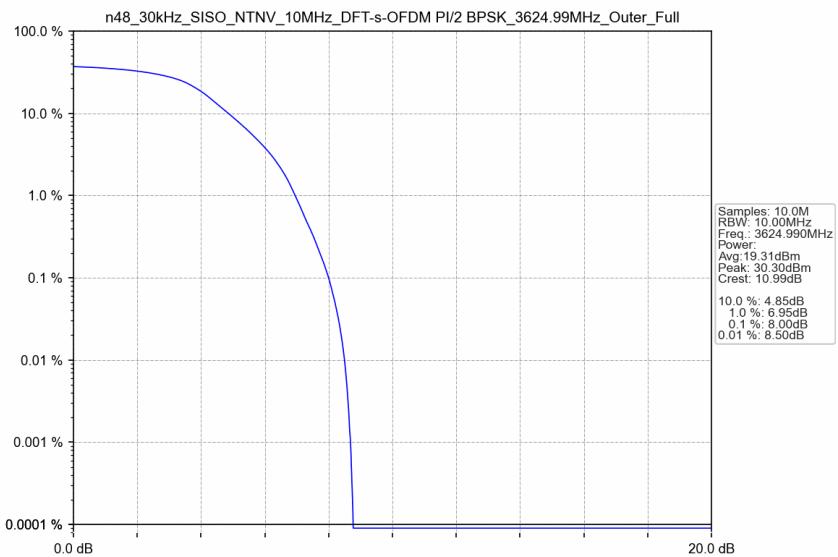
4.2 Test Graph

4.2.1 30k_SISO_10MHz_NTNV

n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3555MHz_Outer_Full



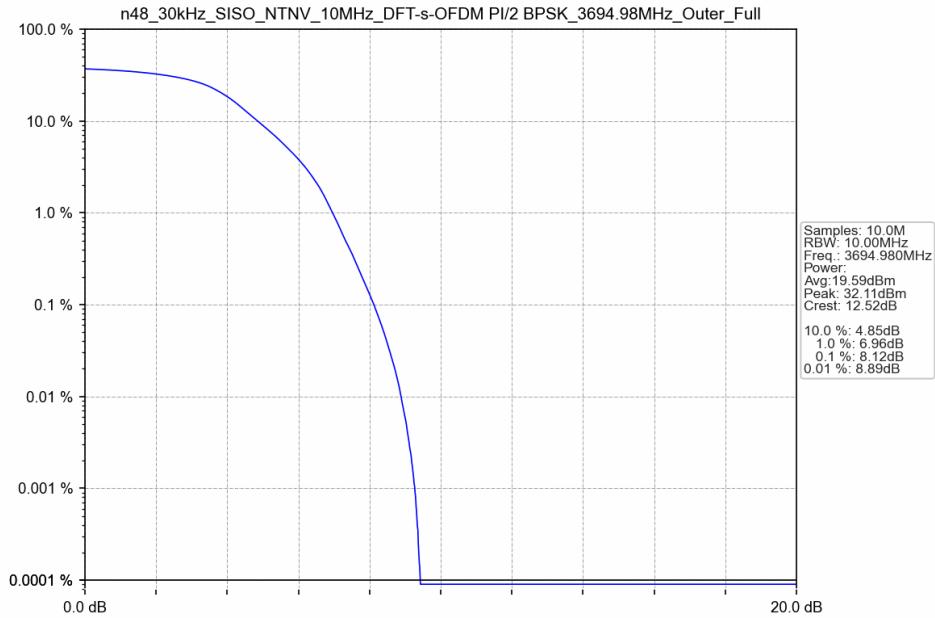
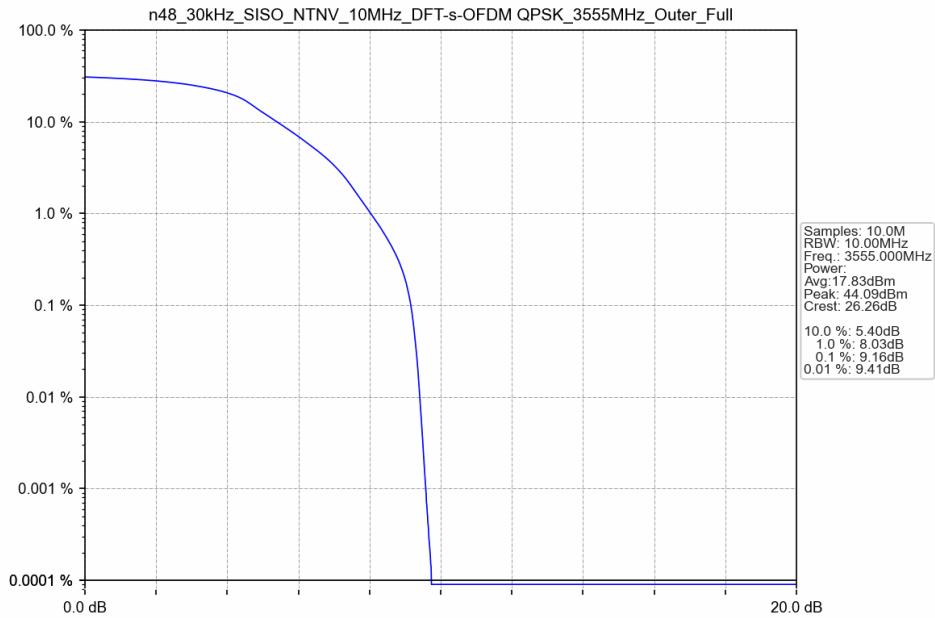
n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3624.99MHz_Outer_Full



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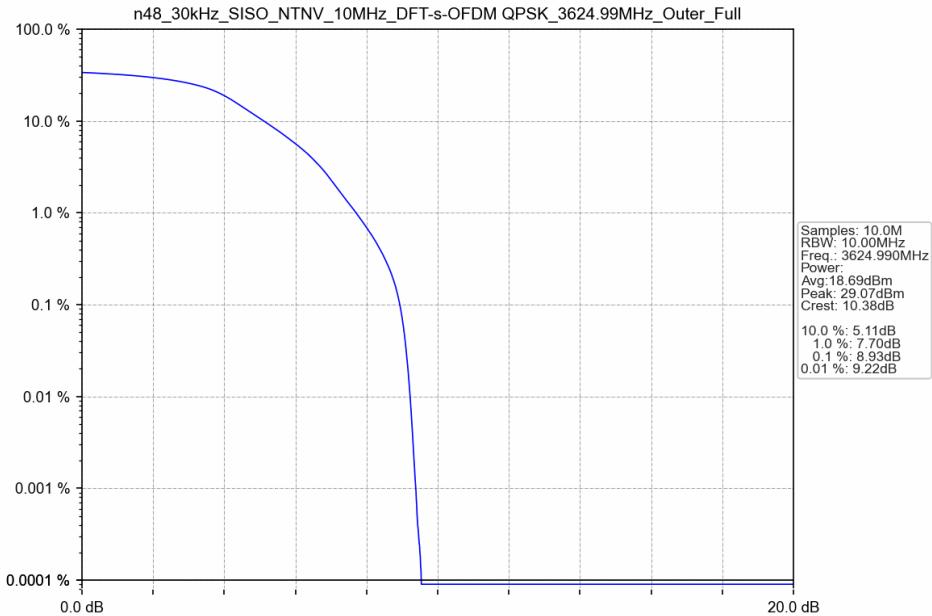
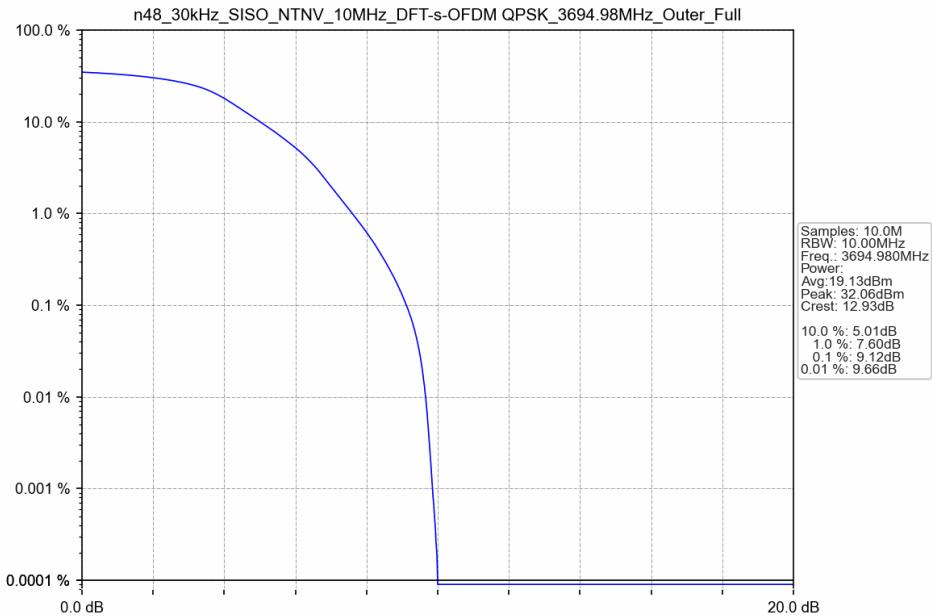
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3694.98MHz_Outer_Full**n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3555MHz_Outer_Full**

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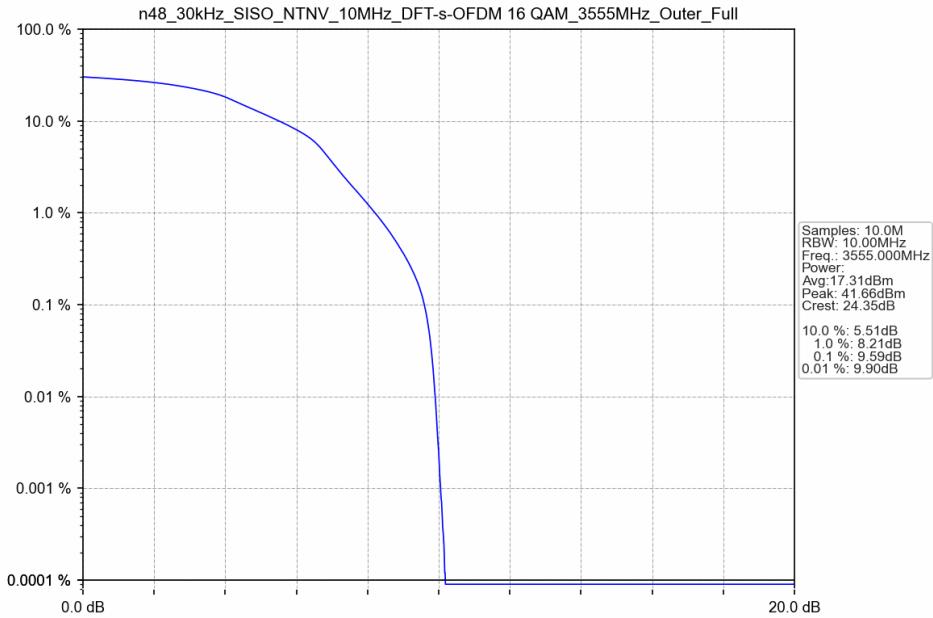
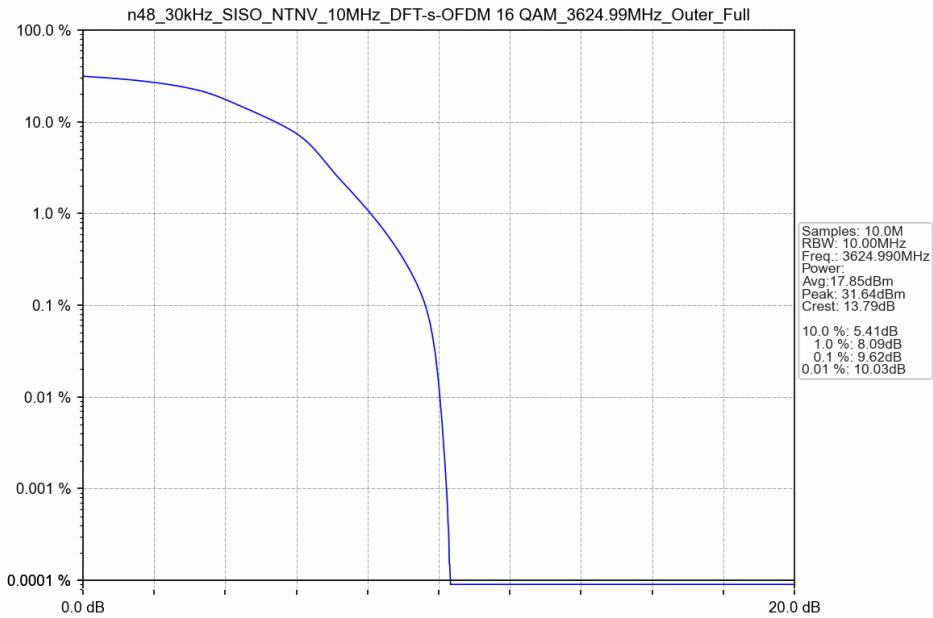
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3624.99MHz_Outer_Full**n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3694.98MHz_Outer_Full**

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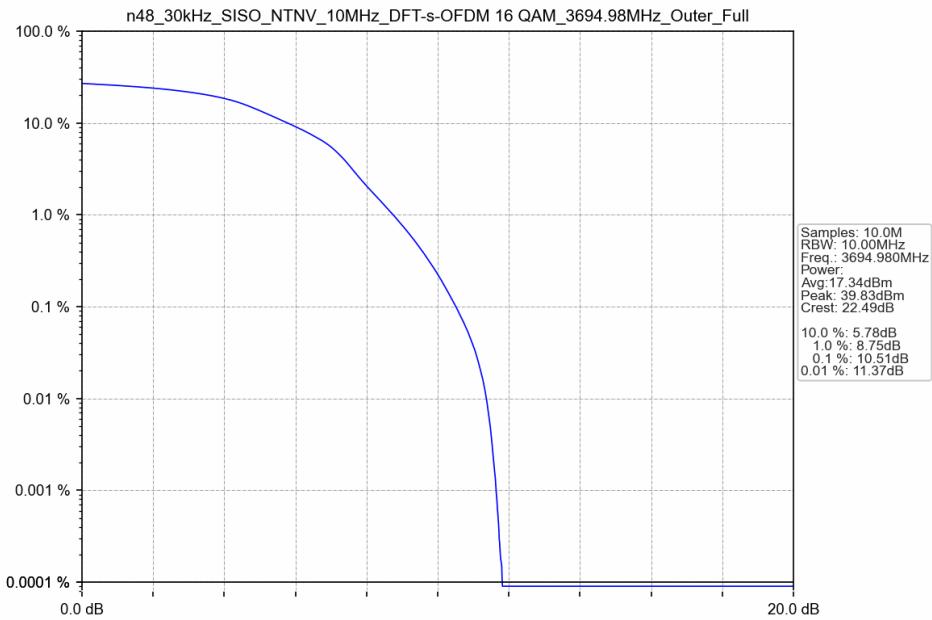
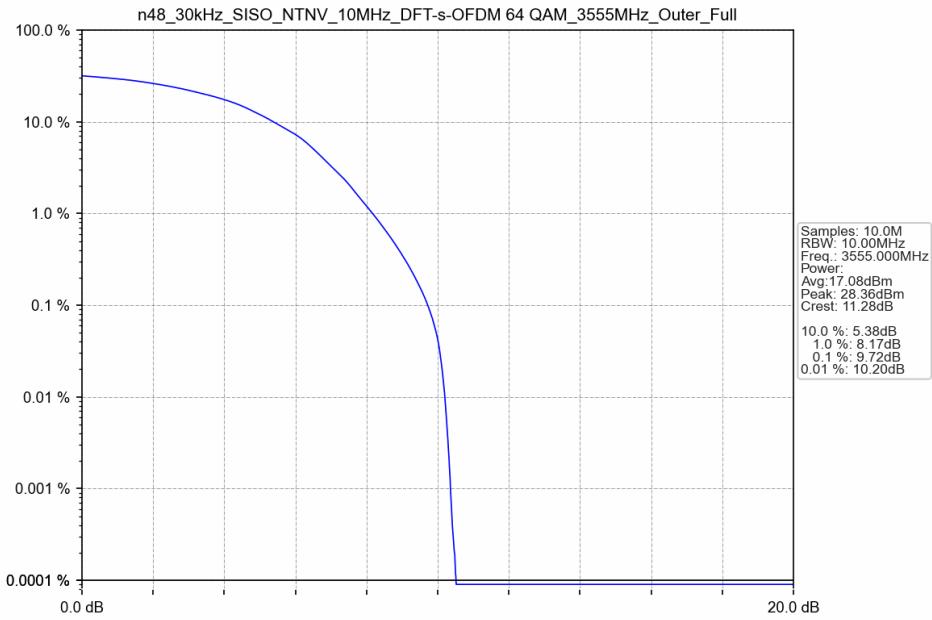
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_3555MHz_Outer_Full**n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_3624.99MHz_Outer_Full**

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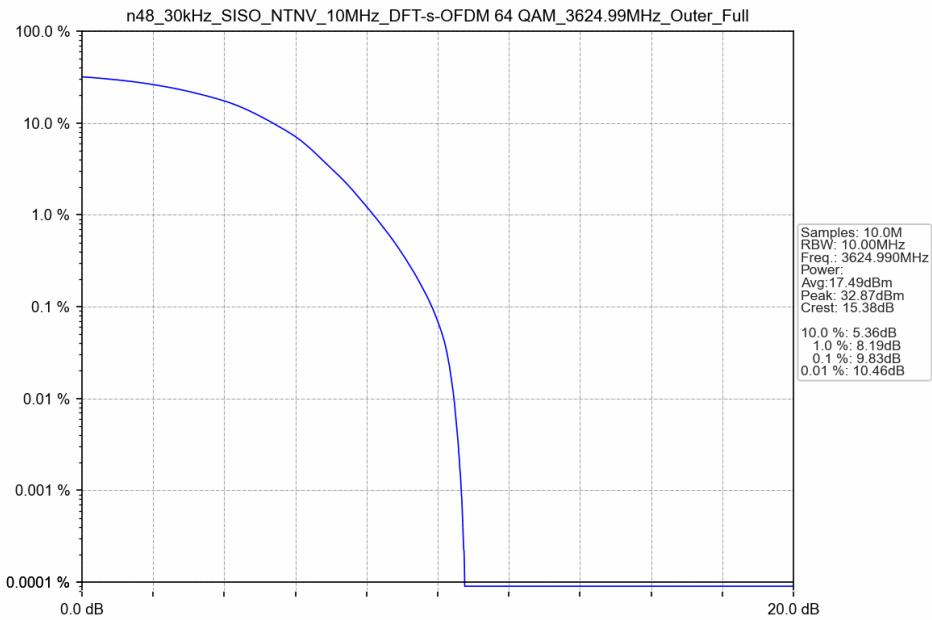
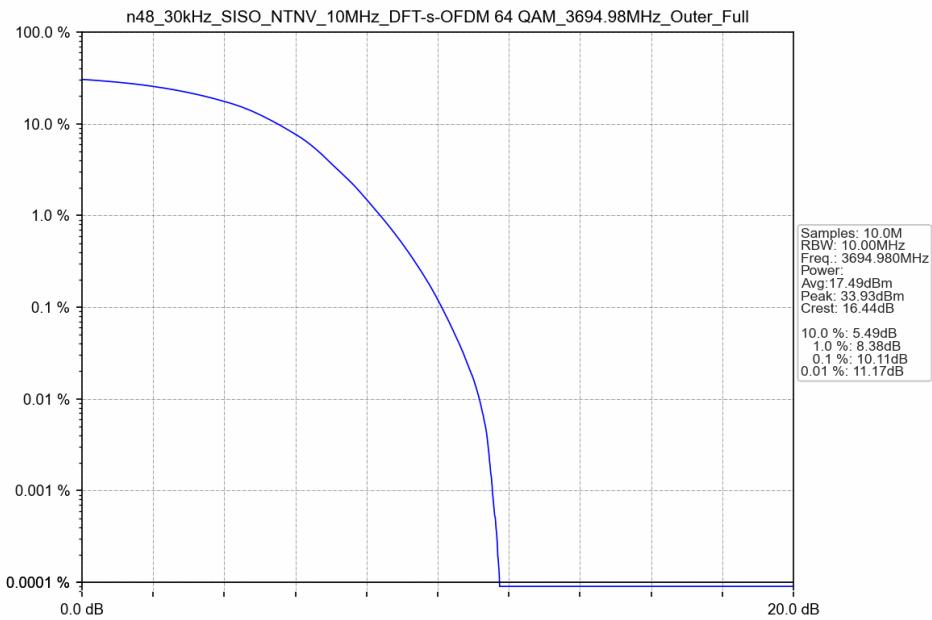
n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_3694.98MHz_Outer_Full**n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_3555MHz_Outer_Full**

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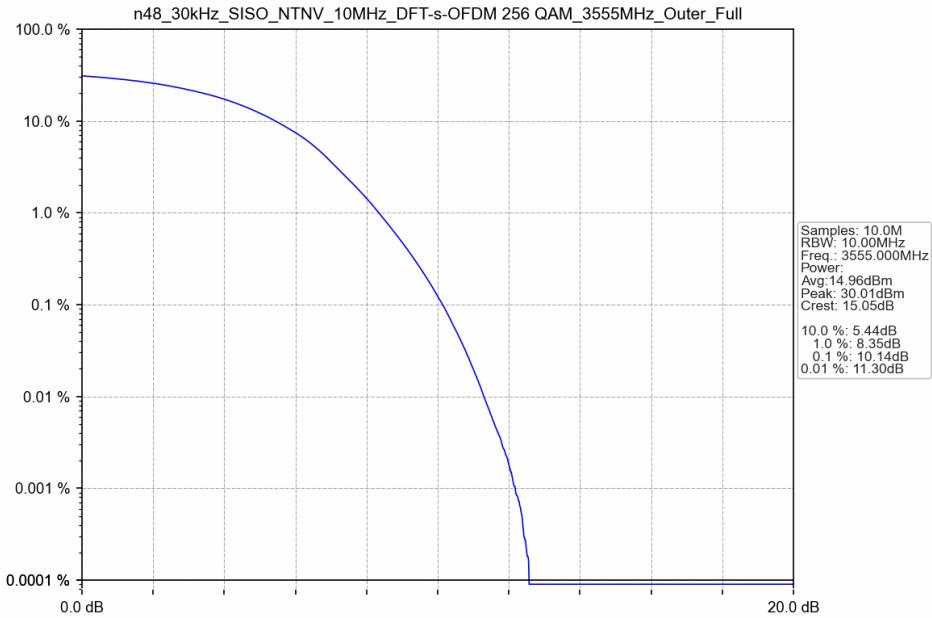
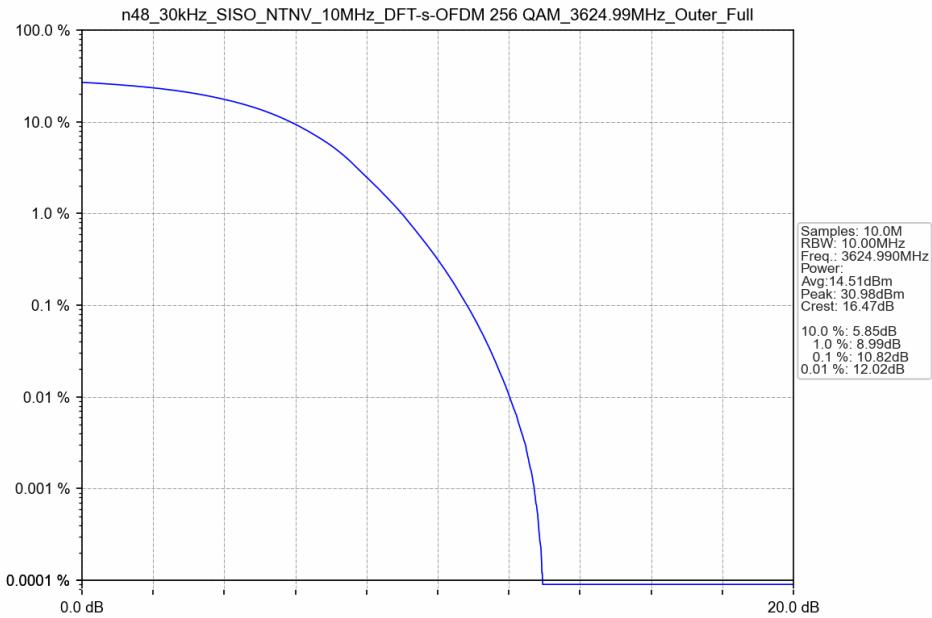
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_3624.99MHz_Outer_Full**n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_3694.98MHz_Outer_Full**

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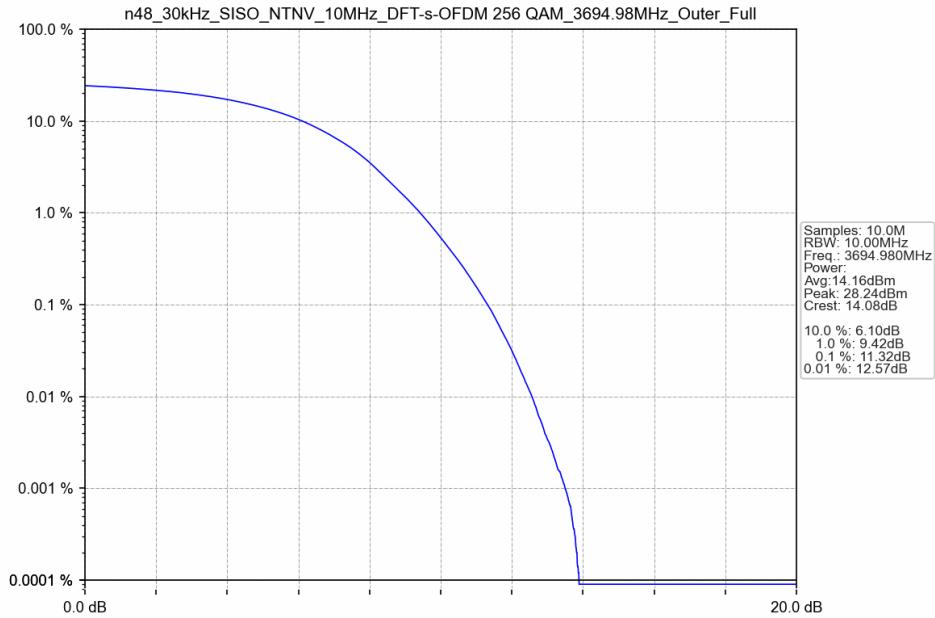
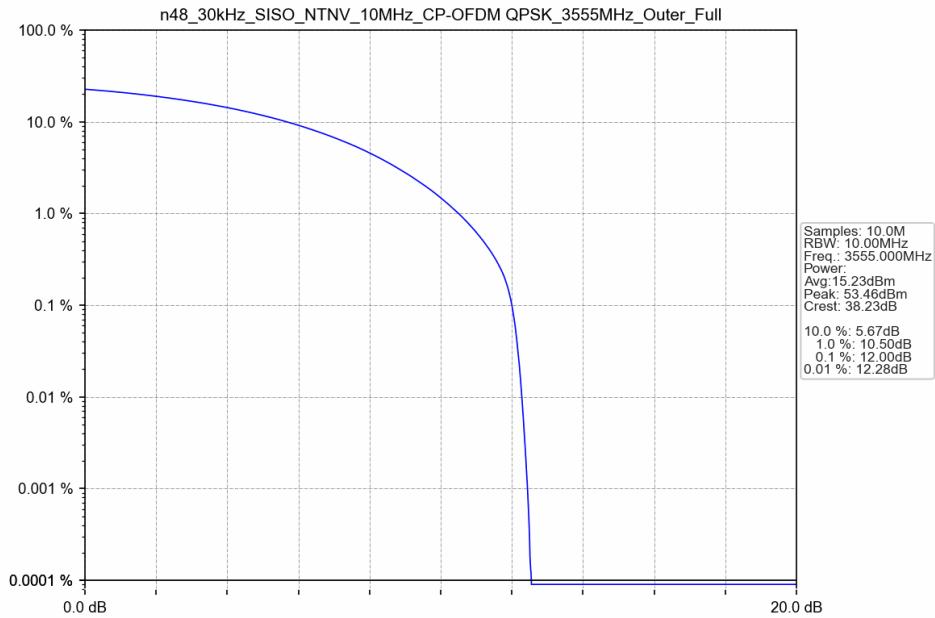
n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_3555MHz_Outer_Full**n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_3624.99MHz_Outer_Full**

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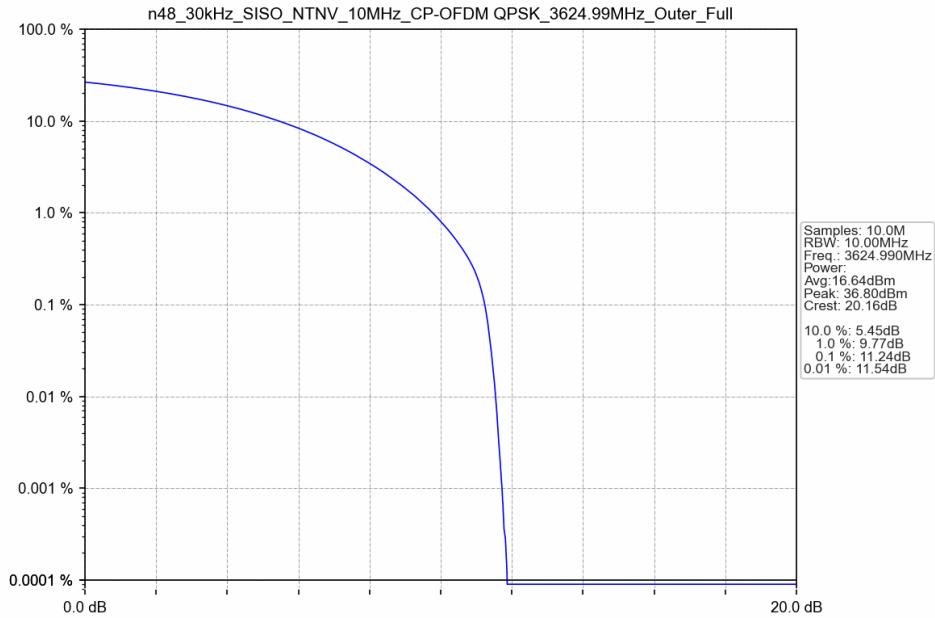
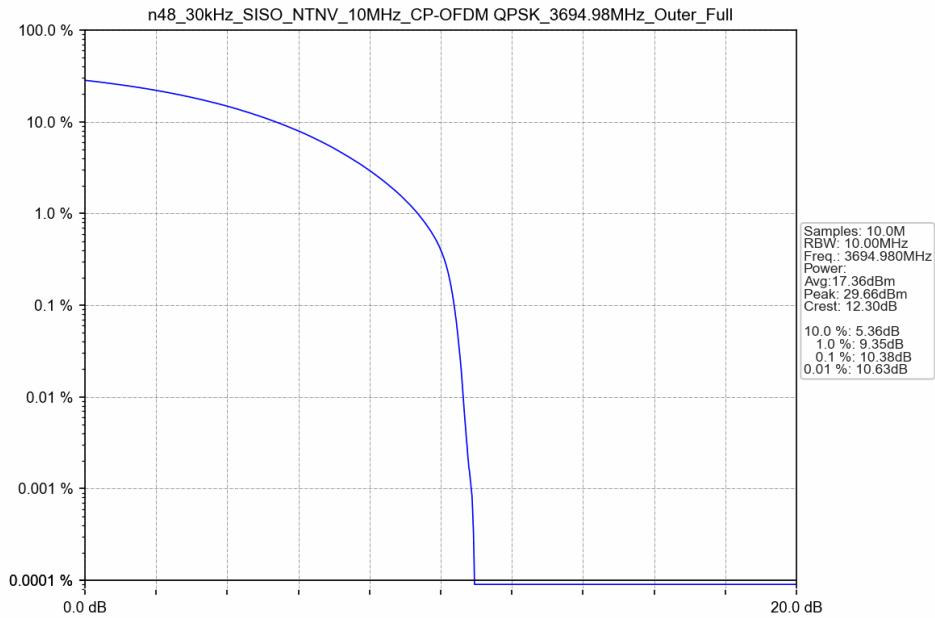
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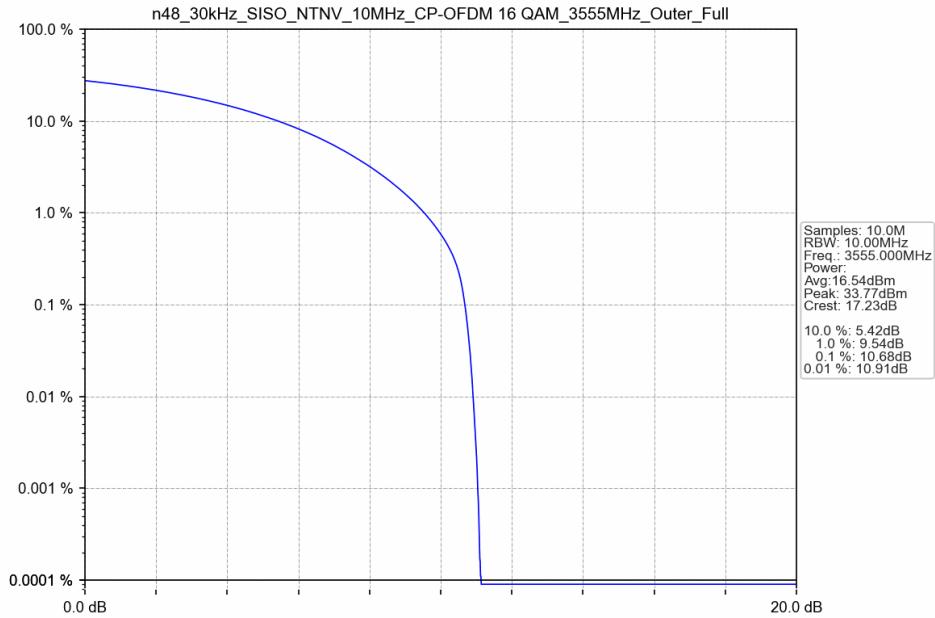
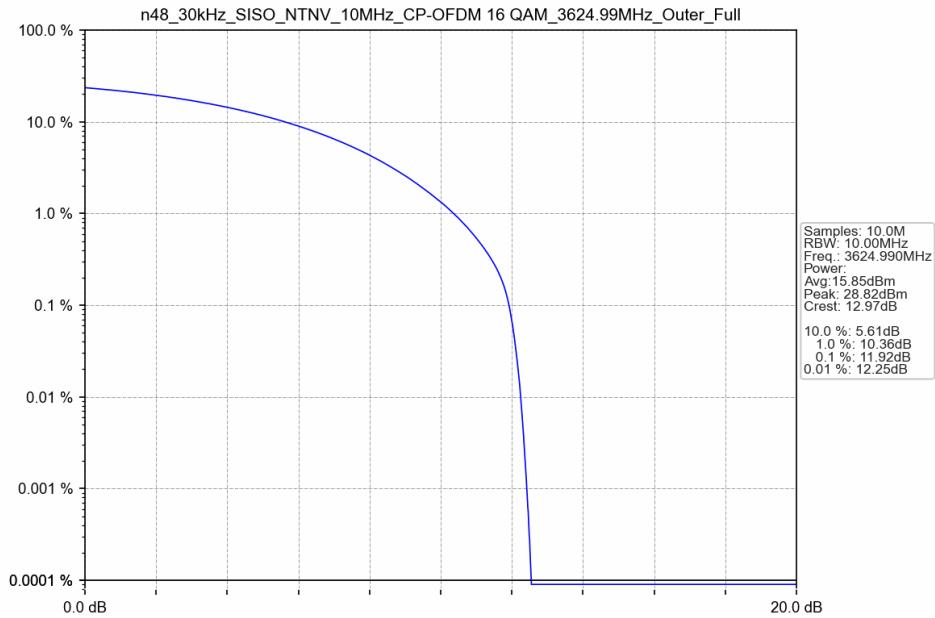
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full**n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3694.98MHz_Outer_Full**

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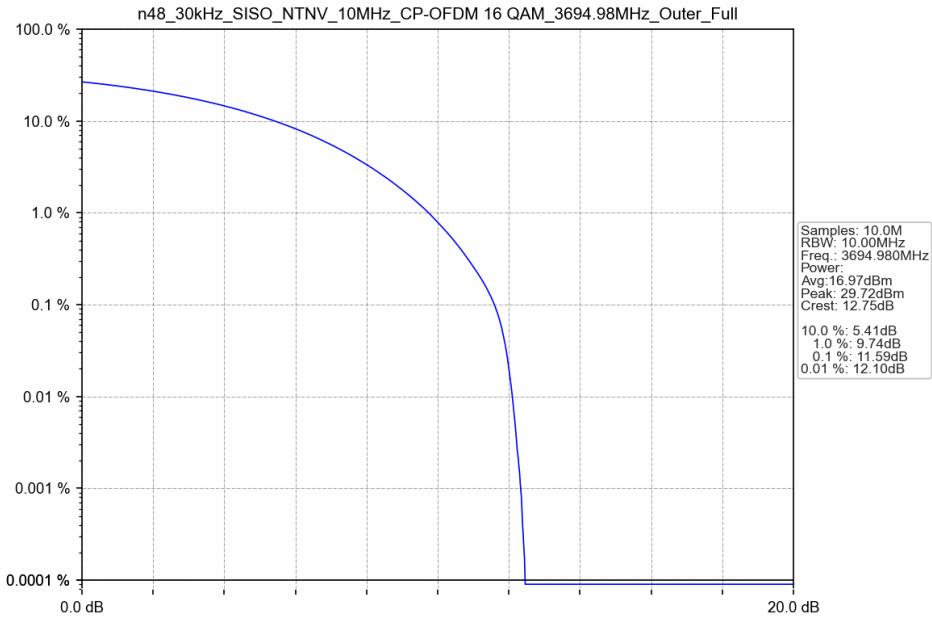
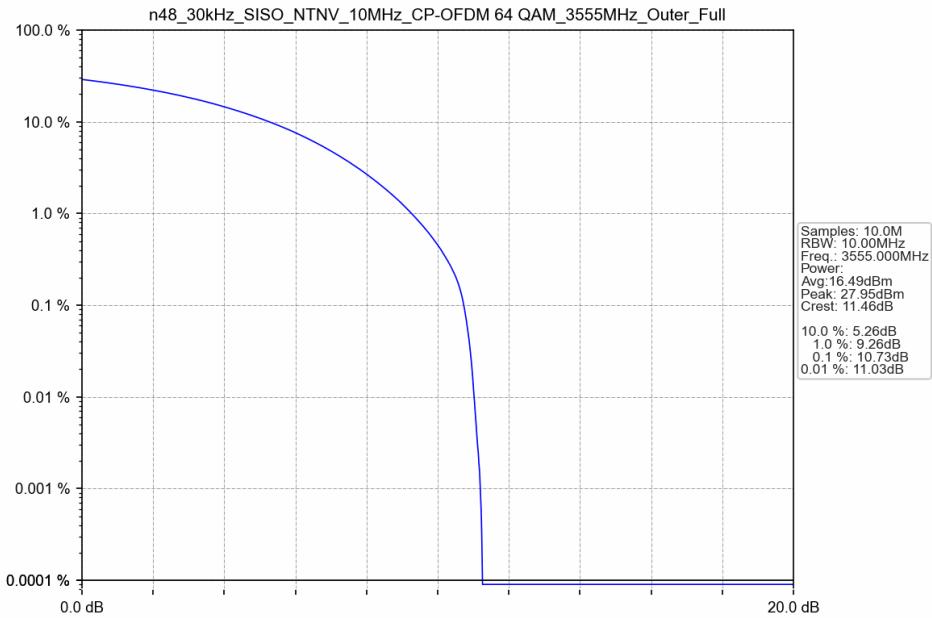
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_3555MHz_Outer_Full**n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_3624.99MHz_Outer_Full**

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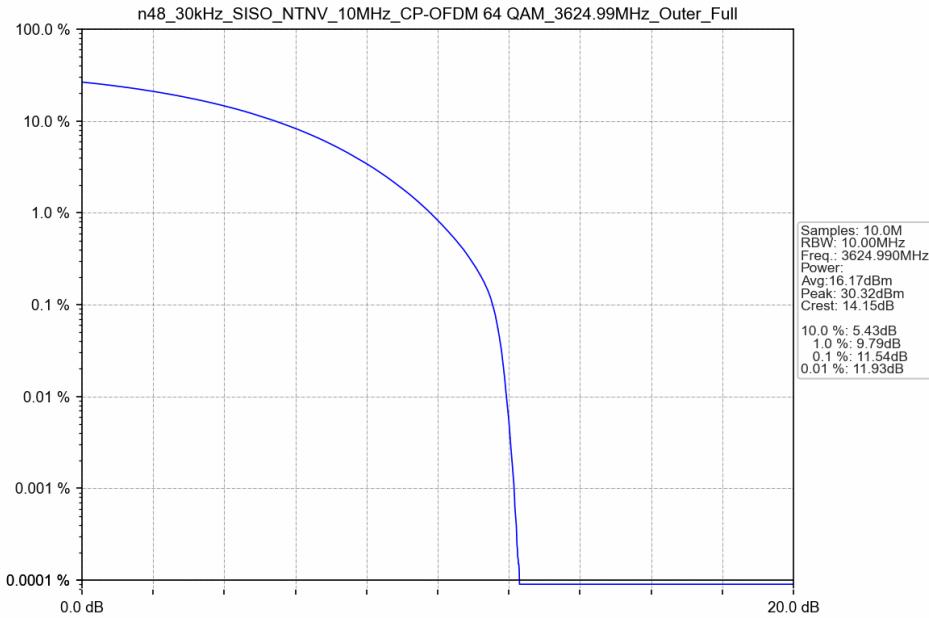
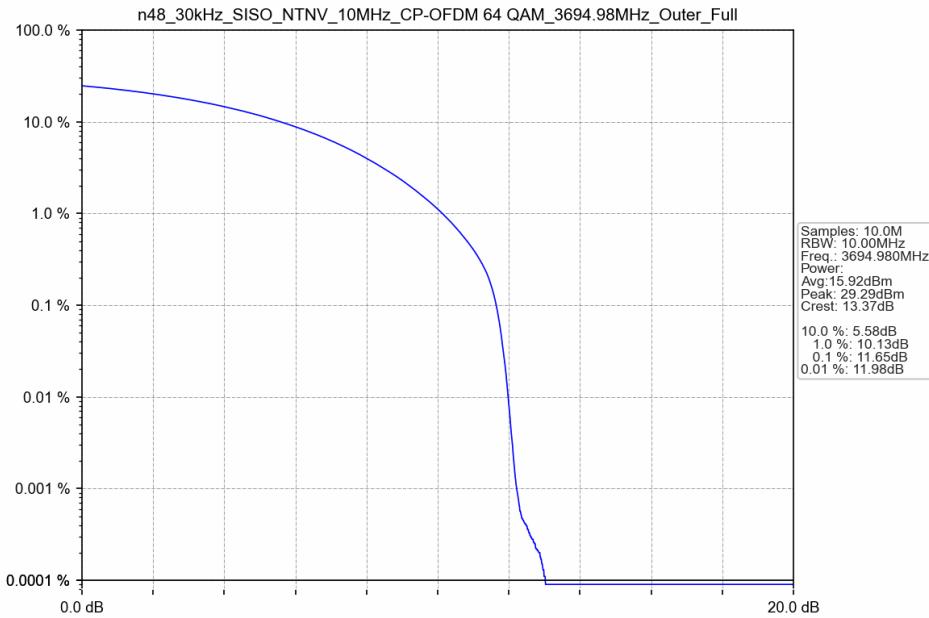
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_3694.98MHz_Outer_Full**n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_3555MHz_Outer_Full**

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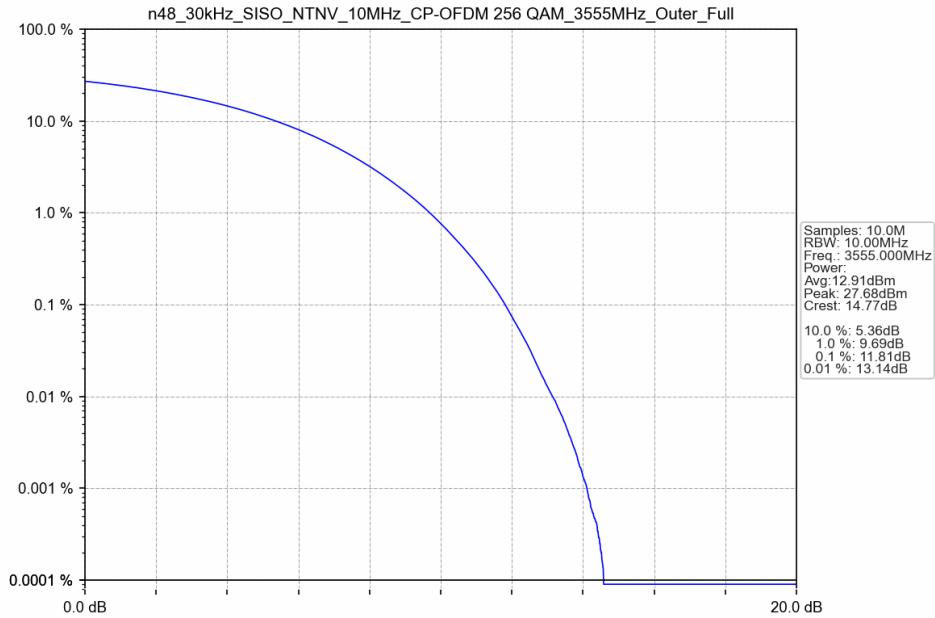
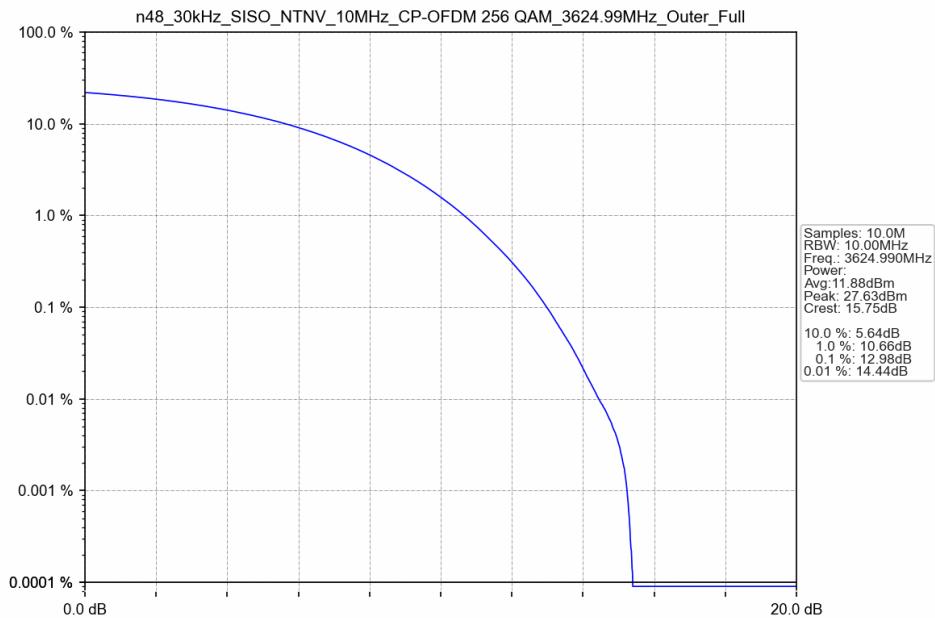
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_3555MHz_Outer_Full**n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_3624.99MHz_Outer_Full**

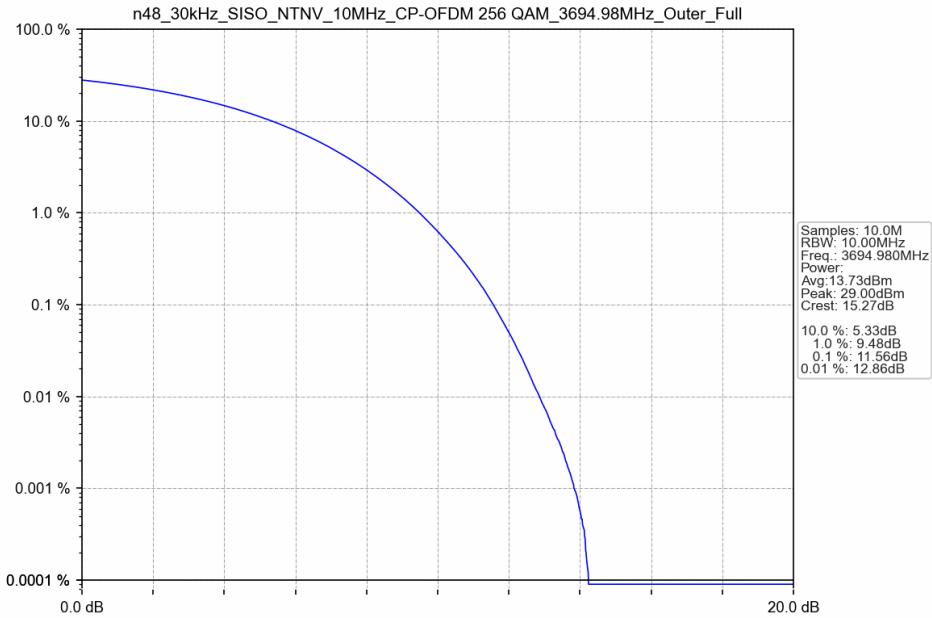
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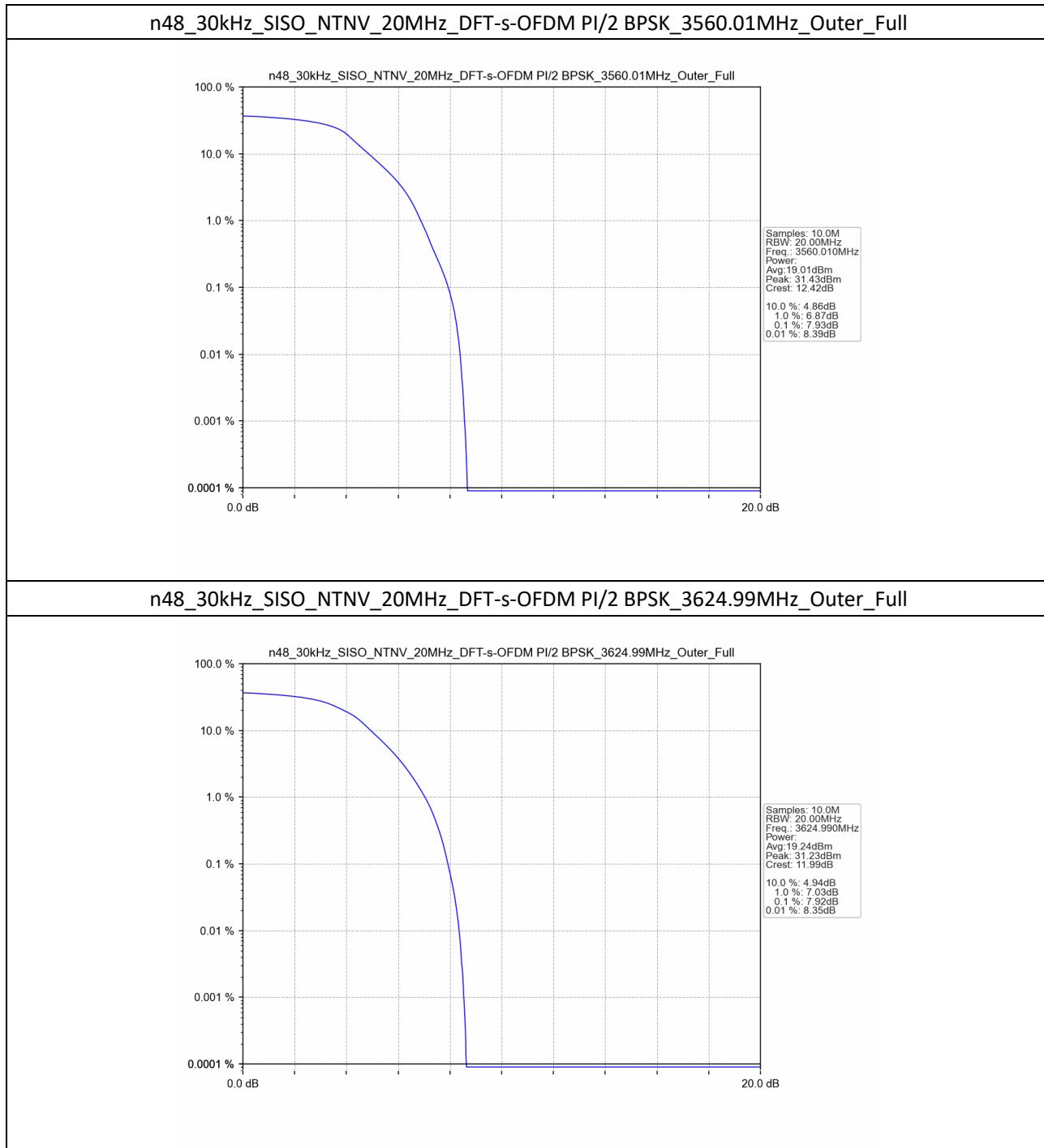
n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_3694.98MHz_Outer_Full



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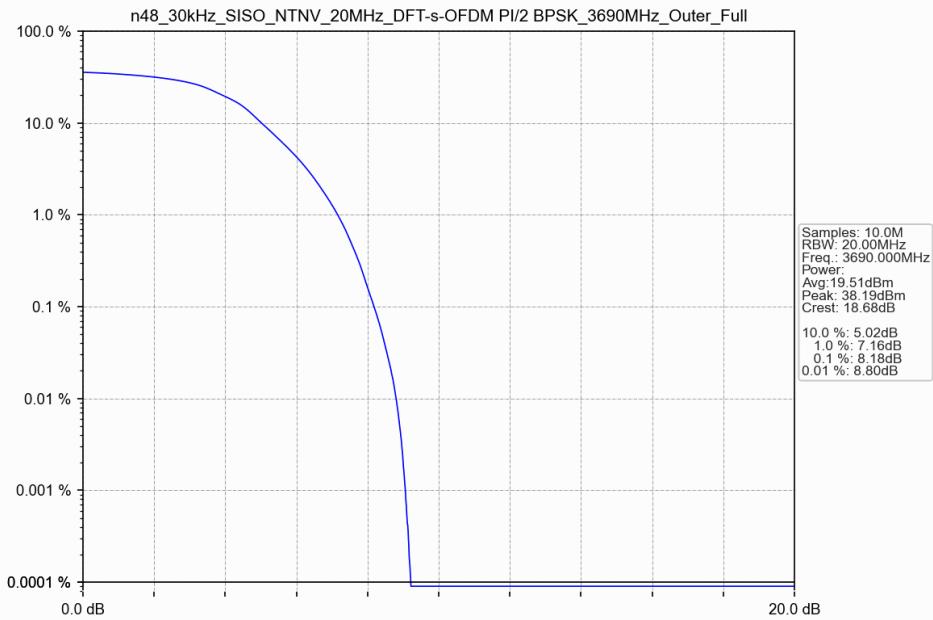
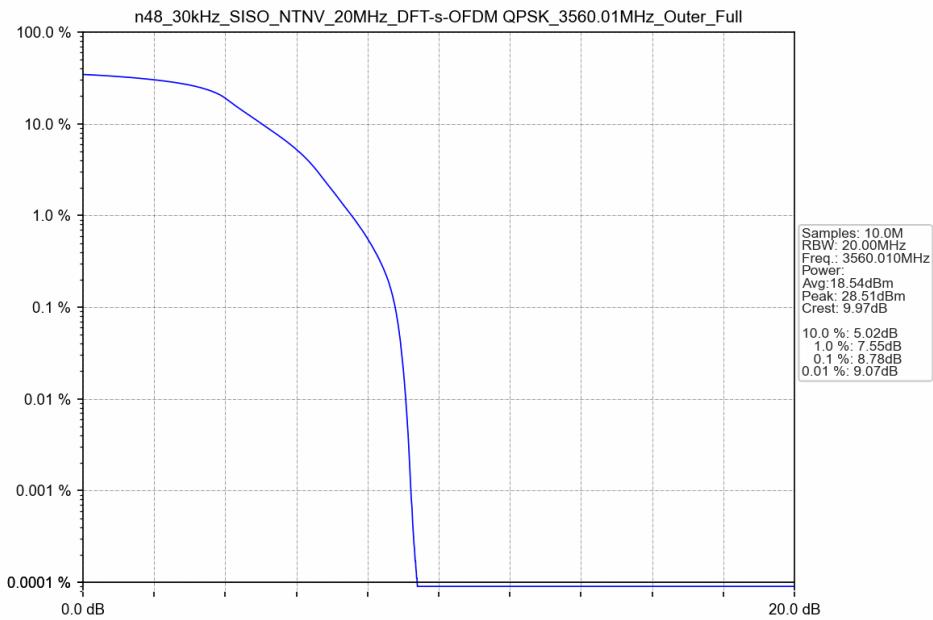
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4.2.2 30k_SISO_20MHz_NTNV

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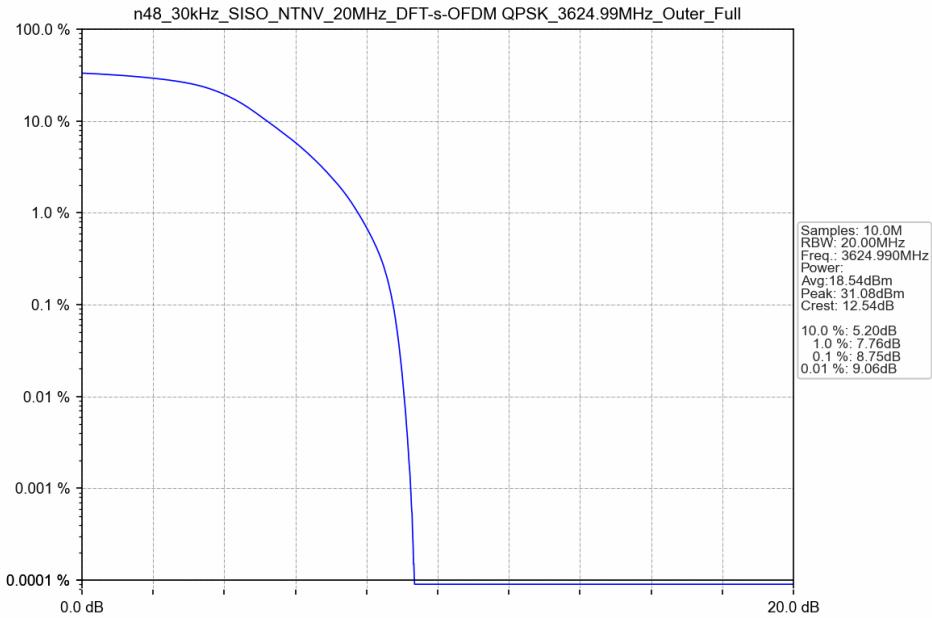
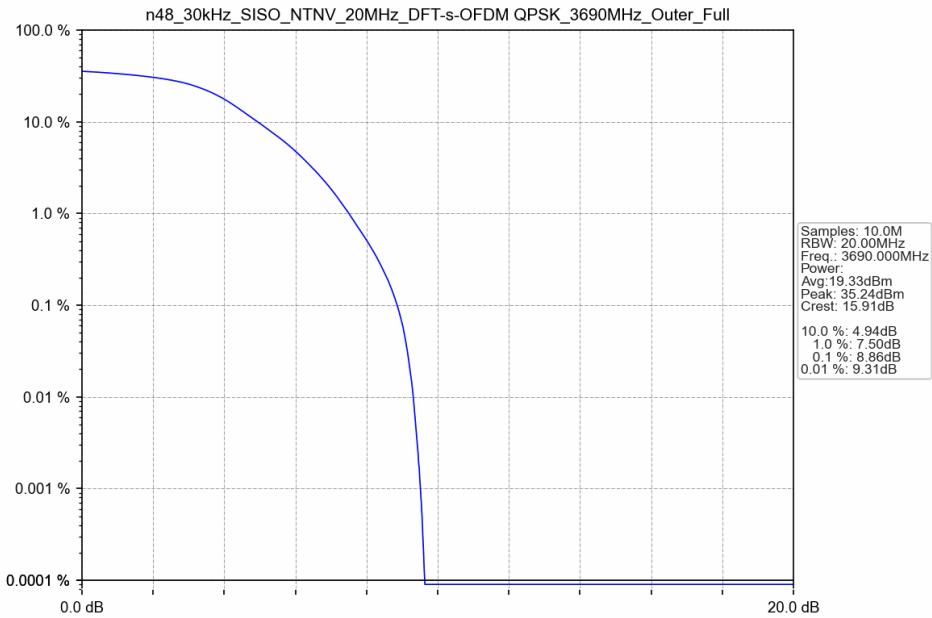
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3690MHz_Outer_Full**n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3560.01MHz_Outer_Full**

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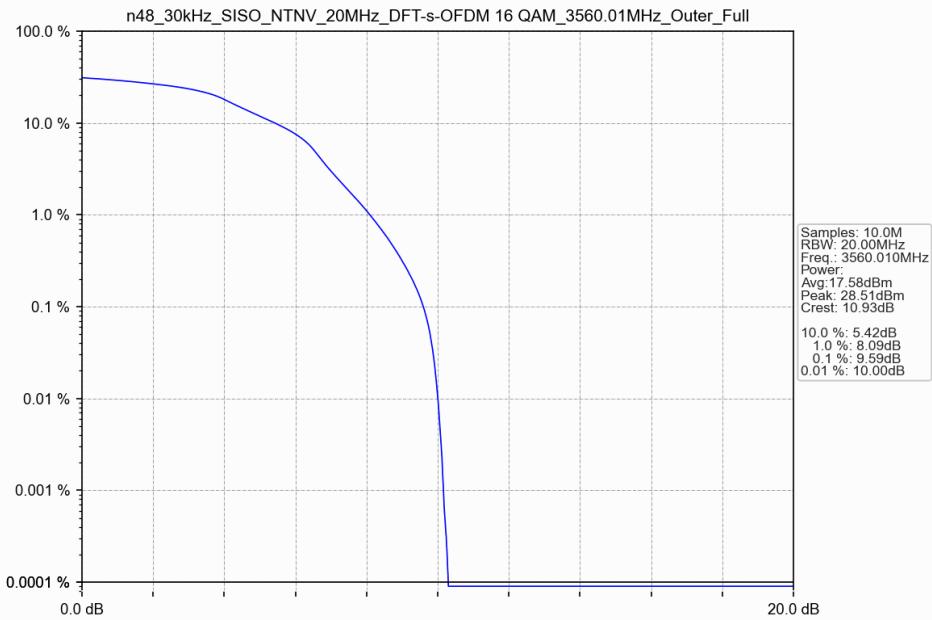
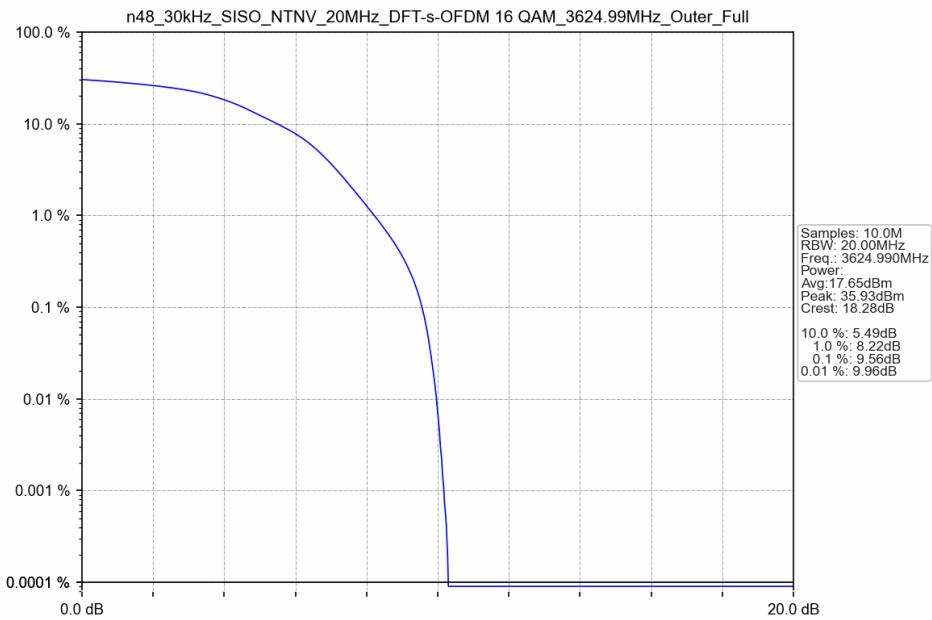
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3624.99MHz_Outer_Full**n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3690MHz_Outer_Full**

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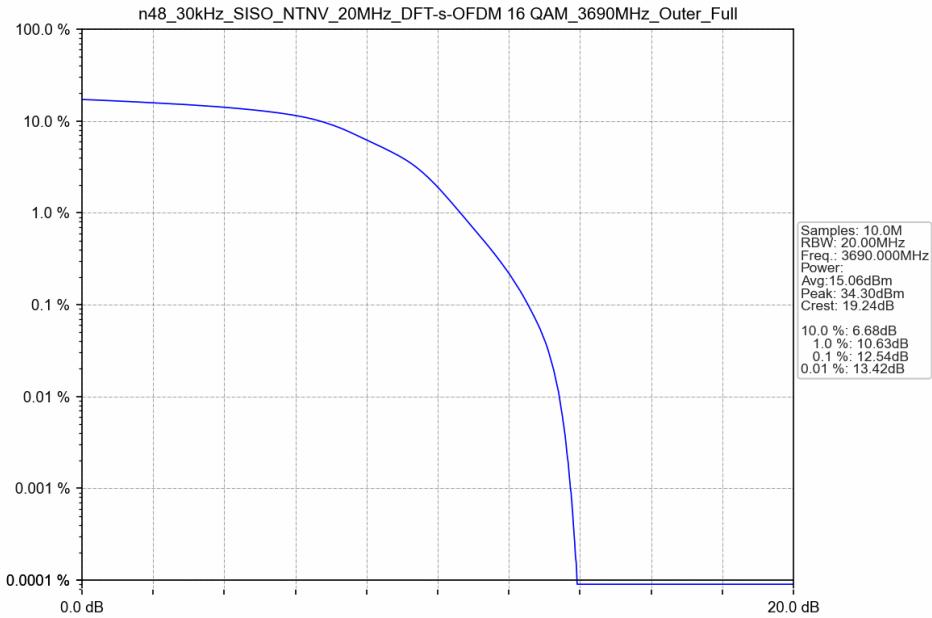
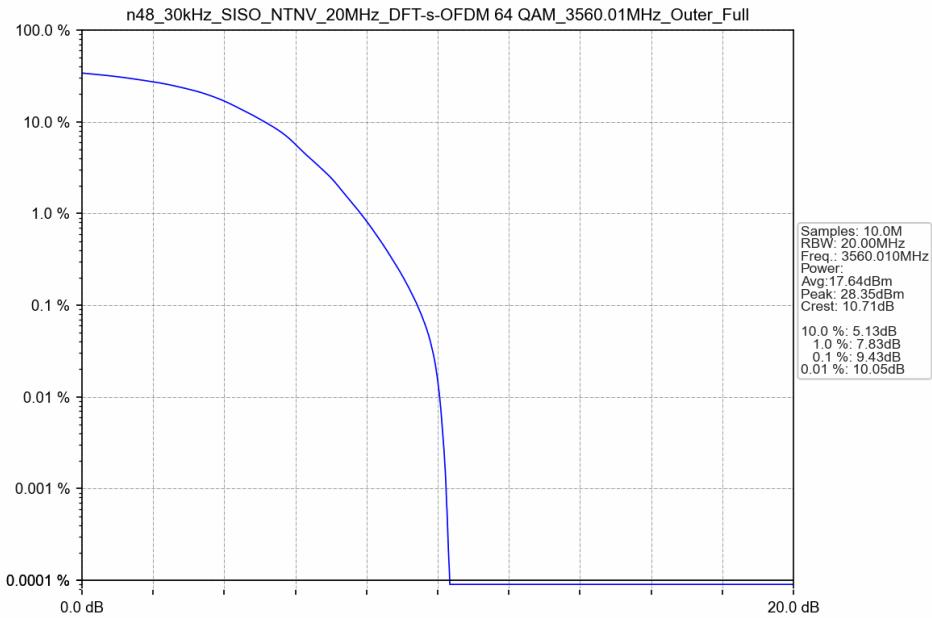
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_3560.01MHz_Outer_Full**n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_3624.99MHz_Outer_Full**

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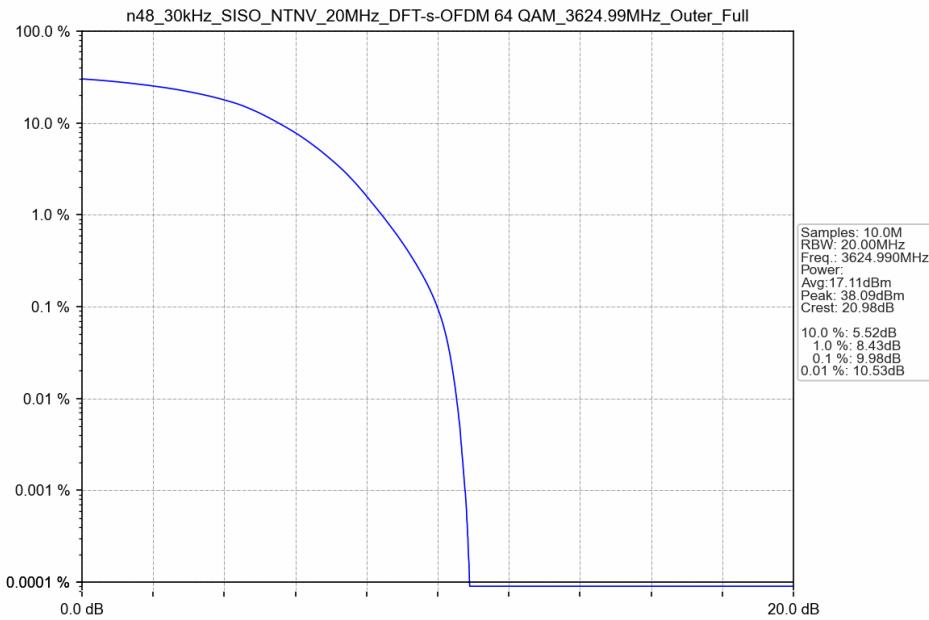
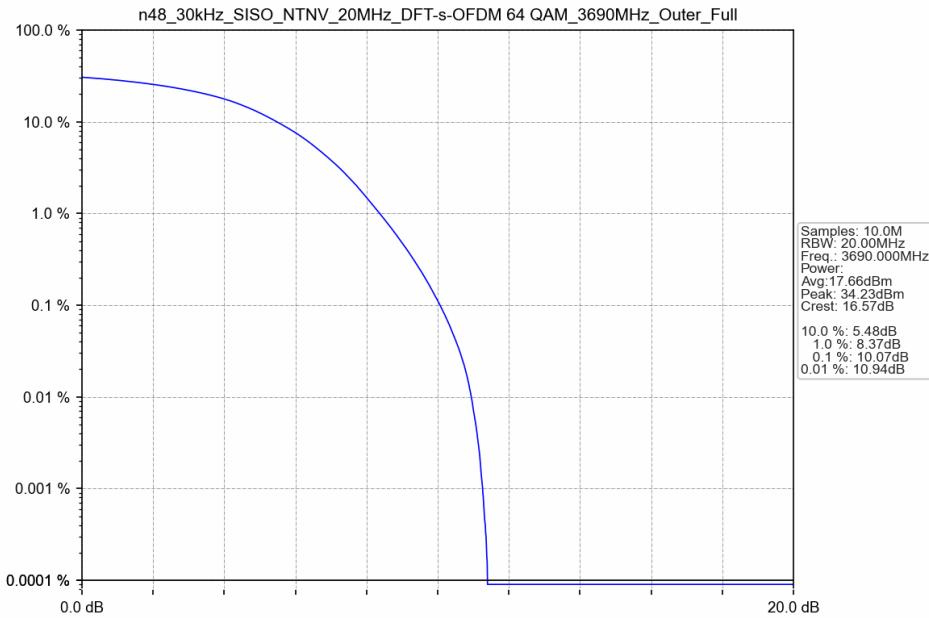
n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_3690MHz_Outer_Full**n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_3560.01MHz_Outer_Full**

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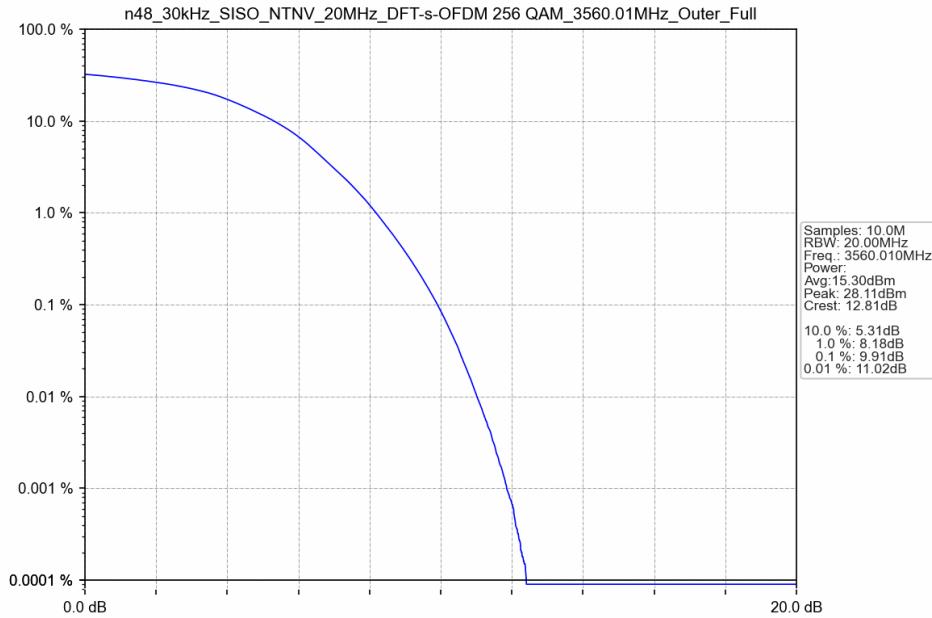
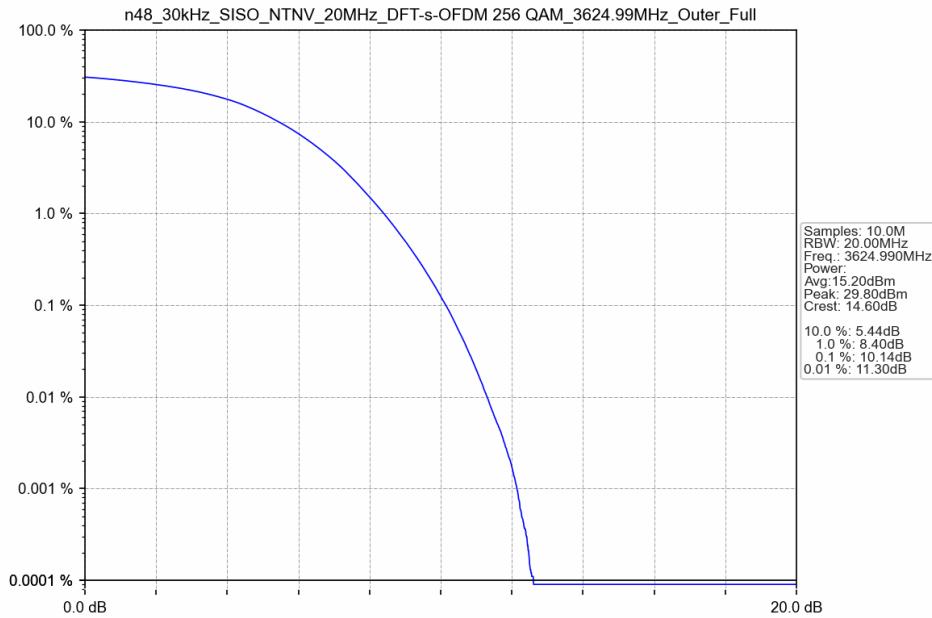
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_3624.99MHz_Outer_Full**n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_3690MHz_Outer_Full**

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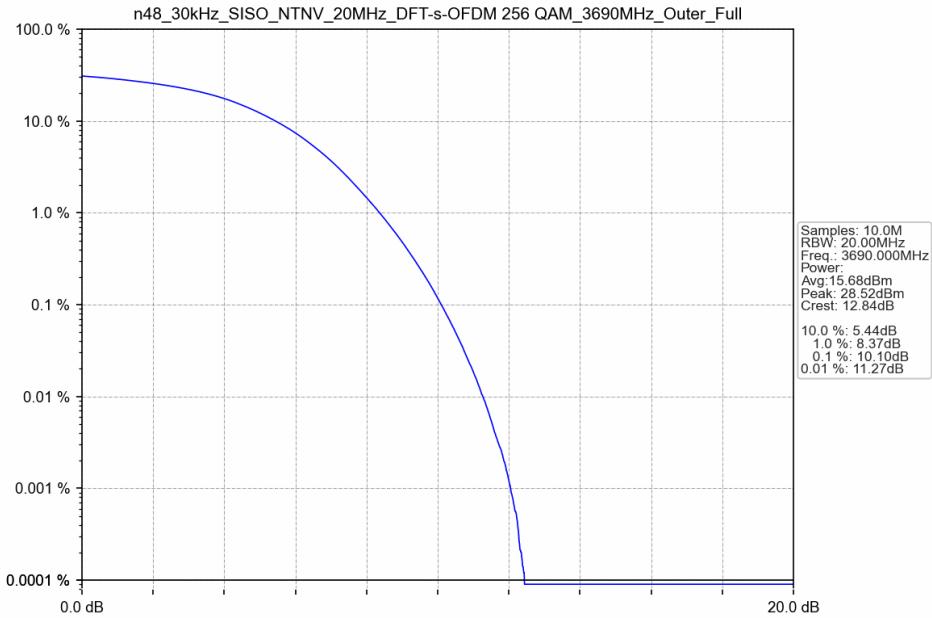
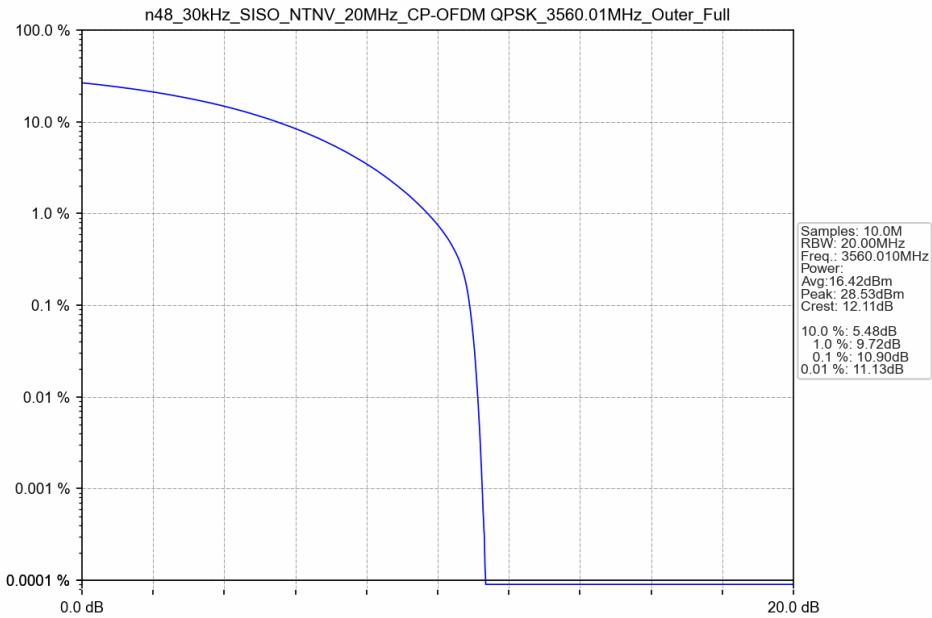
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_3560.01MHz_Outer_Full**n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_3624.99MHz_Outer_Full**

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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_3690MHz_Outer_Full**n48_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3560.01MHz_Outer_Full**

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