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Appendix B.44

NR Band n48



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Shenzhen Branch**

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1. Effective (Isotropic) Radiated Power Output Data

1.1 30k_SISO_10MHz_NTNV_EIRP/10MHz

1.1.1 Test Result

5G NR n48 SCS=30kHz SISO 10MHz NTNv										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm/10MHz)			EIRP(dBm/10MHz)				Verdict
			Ant1	Ant4	Sum	Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3555	Edge_1RB_Left	22.84	/	/	19.24	/	/	<=23	Pass
		Edge_1RB_Right	24.23	/	/	20.63	/	/	<=23	Pass
		Outer_Full	21.90	/	/	18.3	/	/	<=23	Pass
		Inner_Full	23.32	/	/	19.72	/	/	<=23	Pass
		Inner_1RB_Left	22.61	/	/	19.01	/	/	<=23	Pass
		Inner_1RB_Right	23.16	/	/	19.56	/	/	<=23	Pass
	3624.99	Edge_1RB_Left	18.00	/	/	14.4	/	/	<=23	Pass
		Edge_1RB_Right	22.16	/	/	18.56	/	/	<=23	Pass
		Outer_Full	22.36	/	/	18.76	/	/	<=23	Pass
		Inner_Full	22.65	/	/	19.05	/	/	<=23	Pass
		Inner_1RB_Left	22.53	/	/	18.93	/	/	<=23	Pass
		Inner_1RB_Right	22.76	/	/	19.16	/	/	<=23	Pass
	3694.98	Edge_1RB_Left	22.96	/	/	19.36	/	/	<=23	Pass
		Edge_1RB_Right	23.93	/	/	20.33	/	/	<=23	Pass
		Outer_Full	23.10	/	/	19.5	/	/	<=23	Pass
		Inner_Full	23.42	/	/	19.82	/	/	<=23	Pass
		Inner_1RB_Left	24.65	/	/	21.05	/	/	<=23	Pass
		Inner_1RB_Right	22.29	/	/	18.69	/	/	<=23	Pass
DFT-s-OFDM QPSK	3555	Edge_1RB_Left	22.81	/	/	19.21	/	/	<=23	Pass
		Edge_1RB_Right	22.08	/	/	18.48	/	/	<=23	Pass
		Outer_Full	23.22	/	/	19.62	/	/	<=23	Pass
		Inner_Full	23.54	/	/	19.94	/	/	<=23	Pass
		Inner_1RB_Left	22.76	/	/	19.16	/	/	<=23	Pass
		Inner_1RB_Right	23.35	/	/	19.75	/	/	<=23	Pass
	3624.99	Edge_1RB_Left	20.72	/	/	17.12	/	/	<=23	Pass
		Edge_1RB_Right	22.51	/	/	18.91	/	/	<=23	Pass
		Outer_Full	21.77	/	/	18.17	/	/	<=23	Pass
		Inner_Full	22.55	/	/	18.95	/	/	<=23	Pass
		Inner_1RB_Left	23.89	/	/	20.29	/	/	<=23	Pass
		Inner_1RB_Right	23.05	/	/	19.45	/	/	<=23	Pass
	3694.98	Edge_1RB_Left	20.26	/	/	16.66	/	/	<=23	Pass
		Edge_1RB_Right	24.00	/	/	20.4	/	/	<=23	Pass
		Outer_Full	22.87	/	/	19.27	/	/	<=23	Pass
		Inner_Full	22.89	/	/	19.29	/	/	<=23	Pass
		Inner_1RB_Left	22.94	/	/	19.34	/	/	<=23	Pass
		Inner_1RB_Right	24.22	/	/	20.62	/	/	<=23	Pass
DFT-s-OFDM 16 QAM	3555	Edge_1RB_Left	22.97	/	/	19.37	/	/	<=23	Pass



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		Edge_1RB_Right	22.39	/	/	18.79	/	/	<=23	Pass
		Outer_Full	22.89	/	/	19.29	/	/	<=23	Pass
		Inner_Full	23.59	/	/	19.99	/	/	<=23	Pass
		Inner_1RB_Left	22.46	/	/	18.86	/	/	<=23	Pass
		Inner_1RB_Right	23.44	/	/	19.84	/	/	<=23	Pass
	3624.99	Edge_1RB_Left	21.36	/	/	17.76	/	/	<=23	Pass
		Edge_1RB_Right	21.29	/	/	17.69	/	/	<=23	Pass
		Outer_Full	21.35	/	/	17.75	/	/	<=23	Pass
		Inner_Full	22.24	/	/	18.64	/	/	<=23	Pass
		Inner_1RB_Left	22.90	/	/	19.3	/	/	<=23	Pass
	3694.98	Inner_1RB_Right	23.13	/	/	19.53	/	/	<=23	Pass
		Edge_1RB_Left	23.01	/	/	19.41	/	/	<=23	Pass
		Edge_1RB_Right	23.27	/	/	19.67	/	/	<=23	Pass
		Outer_Full	23.76	/	/	20.16	/	/	<=23	Pass
		Inner_Full	22.10	/	/	18.5	/	/	<=23	Pass
DFT-s-OFDM 64 QAM	3555	Inner_1RB_Left	22.90	/	/	19.3	/	/	<=23	Pass
		Inner_1RB_Right	21.90	/	/	18.3	/	/	<=23	Pass
		Edge_1RB_Left	23.72	/	/	20.12	/	/	<=23	Pass
		Edge_1RB_Right	23.77	/	/	20.17	/	/	<=23	Pass
		Outer_Full	22.59	/	/	18.99	/	/	<=23	Pass
	3624.99	Inner_Full	23.22	/	/	19.62	/	/	<=23	Pass
		Inner_1RB_Left	22.82	/	/	19.22	/	/	<=23	Pass
		Inner_1RB_Right	22.46	/	/	18.86	/	/	<=23	Pass
		Edge_1RB_Left	23.54	/	/	19.94	/	/	<=23	Pass
		Edge_1RB_Right	22.00	/	/	18.4	/	/	<=23	Pass
	3694.98	Outer_Full	21.21	/	/	17.61	/	/	<=23	Pass
		Inner_Full	21.62	/	/	18.02	/	/	<=23	Pass
		Inner_1RB_Left	22.04	/	/	18.44	/	/	<=23	Pass
		Inner_1RB_Right	22.45	/	/	18.85	/	/	<=23	Pass
		Edge_1RB_Left	22.46	/	/	18.86	/	/	<=23	Pass
DFT-s-OFDM 256 QAM	3555	Edge_1RB_Right	23.33	/	/	19.73	/	/	<=23	Pass
		Outer_Full	23.49	/	/	19.89	/	/	<=23	Pass
		Inner_Full	23.11	/	/	19.51	/	/	<=23	Pass
		Inner_1RB_Left	22.22	/	/	18.62	/	/	<=23	Pass
		Inner_1RB_Right	24.04	/	/	20.44	/	/	<=23	Pass
	3624.99	Edge_1RB_Left	22.00	/	/	18.4	/	/	<=23	Pass
		Edge_1RB_Right	22.63	/	/	19.03	/	/	<=23	Pass
		Outer_Full	23.11	/	/	19.51	/	/	<=23	Pass
		Inner_Full	22.14	/	/	18.54	/	/	<=23	Pass
		Inner_1RB_Left	22.69	/	/	19.09	/	/	<=23	Pass
	3694.98	Inner_1RB_Right	21.12	/	/	17.52	/	/	<=23	Pass
		Edge_1RB_Left	22.06	/	/	18.46	/	/	<=23	Pass
		Edge_1RB_Right	21.53	/	/	17.93	/	/	<=23	Pass
		Outer_Full	21.40	/	/	17.8	/	/	<=23	Pass
		Inner_Full	21.14	/	/	17.54	/	/	<=23	Pass
		Inner_1RB_Left	22.45	/	/	18.85	/	/	<=23	Pass
		Inner_1RB_Right	21.70	/	/	18.1	/	/	<=23	Pass
		Edge_1RB_Left	22.16	/	/	18.56	/	/	<=23	Pass



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		Edge_1RB_Right	22.08	/	/	18.48	/	/	<=23	Pass	
		Outer_Full	21.66	/	/	18.06	/	/	<=23	Pass	
		Inner_Full	22.70	/	/	19.1	/	/	<=23	Pass	
		Inner_1RB_Left	23.20	/	/	19.6	/	/	<=23	Pass	
		Inner_1RB_Right	23.22	/	/	19.62	/	/	<=23	Pass	
CP-OFDM QPSK	3555	Edge_1RB_Left	22.59	/	/	18.99	/	/	<=23	Pass	
		Edge_1RB_Right	22.08	/	/	18.48	/	/	<=23	Pass	
		Outer_Full	22.74	/	/	19.14	/	/	<=23	Pass	
		Inner_Full	23.18	/	/	19.58	/	/	<=23	Pass	
		Inner_1RB_Left	23.66	/	/	20.06	/	/	<=23	Pass	
	3624.99	Inner_1RB_Right	23.25	/	/	19.65	/	/	<=23	Pass	
		Edge_1RB_Left	22.73	/	/	19.13	/	/	<=23	Pass	
		Edge_1RB_Right	23.00	/	/	19.4	/	/	<=23	Pass	
		Outer_Full	21.98	/	/	18.38	/	/	<=23	Pass	
		Inner_Full	22.48	/	/	18.88	/	/	<=23	Pass	
	3694.98	Inner_1RB_Left	17.89	/	/	14.29	/	/	<=23	Pass	
		Inner_1RB_Right	16.74	/	/	13.14	/	/	<=23	Pass	
		Edge_1RB_Left	22.68	/	/	19.08	/	/	<=23	Pass	
		Edge_1RB_Right	23.43	/	/	19.83	/	/	<=23	Pass	
		Outer_Full	23.49	/	/	19.89	/	/	<=23	Pass	
	CP-OFDM 16 QAM	3555	Inner_Full	23.15	/	/	19.55	/	/	<=23	Pass
			Inner_1RB_Left	21.79	/	/	18.19	/	/	<=23	Pass
			Inner_1RB_Right	20.35	/	/	16.75	/	/	<=23	Pass
			Edge_1RB_Left	22.71	/	/	19.11	/	/	<=23	Pass
			Edge_1RB_Right	23.09	/	/	19.49	/	/	<=23	Pass
3624.99		Outer_Full	22.70	/	/	19.1	/	/	<=23	Pass	
		Inner_Full	22.27	/	/	18.67	/	/	<=23	Pass	
		Inner_1RB_Left	22.59	/	/	18.99	/	/	<=23	Pass	
		Inner_1RB_Right	22.44	/	/	18.84	/	/	<=23	Pass	
		Edge_1RB_Left	22.56	/	/	18.96	/	/	<=23	Pass	
3694.98		Edge_1RB_Right	21.61	/	/	18.01	/	/	<=23	Pass	
		Outer_Full	22.12	/	/	18.52	/	/	<=23	Pass	
		Inner_Full	21.39	/	/	17.79	/	/	<=23	Pass	
		Inner_1RB_Left	22.03	/	/	18.43	/	/	<=23	Pass	
		Inner_1RB_Right	22.39	/	/	18.79	/	/	<=23	Pass	
3555		Edge_1RB_Left	22.71	/	/	19.11	/	/	<=23	Pass	
		Edge_1RB_Right	22.27	/	/	18.67	/	/	<=23	Pass	
		Outer_Full	23.53	/	/	19.93	/	/	<=23	Pass	
		Inner_Full	21.48	/	/	17.88	/	/	<=23	Pass	
		Inner_1RB_Left	20.01	/	/	16.41	/	/	<=23	Pass	
3555	Inner_1RB_Right	21.83	/	/	18.23	/	/	<=23	Pass		
	Edge_1RB_Left	23.05	/	/	19.45	/	/	<=23	Pass		
	Edge_1RB_Right	21.49	/	/	17.89	/	/	<=23	Pass		
	Outer_Full	23.34	/	/	19.74	/	/	<=23	Pass		
	Inner_Full	23.34	/	/	19.74	/	/	<=23	Pass		
3555	Inner_1RB_Left	21.86	/	/	18.26	/	/	<=23	Pass		
	Inner_1RB_Right	23.80	/	/	20.2	/	/	<=23	Pass		
3624.99	Edge_1RB_Left	22.93	/	/	19.33	/	/	<=23	Pass		



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CP-OFDM 256 QAM	3694.98	Edge_1RB_Right	22.71	/	/	19.11	/	/	<=23	Pass	
		Outer_Full	22.62	/	/	19.02	/	/	<=23	Pass	
		Inner_Full	21.80	/	/	18.2	/	/	<=23	Pass	
		Inner_1RB_Left	22.43	/	/	18.83	/	/	<=23	Pass	
		Inner_1RB_Right	21.72	/	/	18.12	/	/	<=23	Pass	
	3694.98	Edge_1RB_Right	21.57	/	/	17.97	/	/	<=23	Pass	
		Edge_1RB_Right	24.01	/	/	20.41	/	/	<=23	Pass	
		Outer_Full	23.32	/	/	19.72	/	/	<=23	Pass	
		Inner_Full	21.53	/	/	17.93	/	/	<=23	Pass	
		Inner_1RB_Left	22.13	/	/	18.53	/	/	<=23	Pass	
	CP-OFDM 256 QAM	3555	Inner_1RB_Right	23.37	/	/	19.77	/	/	<=23	Pass
			Edge_1RB_Left	20.42	/	/	16.82	/	/	<=23	Pass
			Edge_1RB_Right	20.91	/	/	17.31	/	/	<=23	Pass
			Outer_Full	20.20	/	/	16.6	/	/	<=23	Pass
			Inner_Full	20.44	/	/	16.84	/	/	<=23	Pass
3624.99		Inner_1RB_Left	18.83	/	/	15.23	/	/	<=23	Pass	
		Inner_1RB_Right	19.19	/	/	15.59	/	/	<=23	Pass	
		Edge_1RB_Left	20.33	/	/	16.73	/	/	<=23	Pass	
		Edge_1RB_Right	20.03	/	/	16.43	/	/	<=23	Pass	
		Outer_Full	20.25	/	/	16.65	/	/	<=23	Pass	
3694.98		Inner_Full	20.07	/	/	16.47	/	/	<=23	Pass	
		Inner_1RB_Left	20.68	/	/	17.08	/	/	<=23	Pass	
		Inner_1RB_Right	19.25	/	/	15.65	/	/	<=23	Pass	
		Edge_1RB_Left	20.35	/	/	16.75	/	/	<=23	Pass	
		Edge_1RB_Right	19.67	/	/	16.07	/	/	<=23	Pass	
3694.98	Outer_Full	20.34	/	/	16.74	/	/	<=23	Pass		
	Inner_Full	19.93	/	/	16.33	/	/	<=23	Pass		
	Inner_1RB_Left	20.56	/	/	16.96	/	/	<=23	Pass		
	Inner_1RB_Right	18.50	/	/	14.9	/	/	<=23	Pass		

Note1: Antenna Gain: Ant1: -3.6dBi; Ant4: -3.6dBi;
Note2: EIRP=Conducted Power+Antenna Gain

1.2 30k_SISO_20MHz_NTNV_EIRP/10MHz

1.2.1 Test Result

5G NR n48 SCS=30kHz SISO 20MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm/10MHz)			EIRP(dBm/10MHz)				Verdict
			Ant1	Ant4	Sum	Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3560.01	Edge_1RB_Left	22.82	/	/	19.22	/	/	<=23	Pass
		Edge_1RB_Right	22.60	/	/	19	/	/	<=23	Pass
		Outer_Full	20.99	/	/	17.39	/	/	<=23	Pass
		Inner_Full	22.67	/	/	19.07	/	/	<=23	Pass
		Inner_1RB_Left	23.62	/	/	20.02	/	/	<=23	Pass
		Inner_1RB_Right	21.91	/	/	18.31	/	/	<=23	Pass
	3624.99	Edge_1RB_Left	23.80	/	/	20.2	/	/	<=23	Pass



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		Edge_1RB_Right	22.78	/	/	19.18	/	/	<=23	Pass
		Outer_Full	19.78	/	/	16.18	/	/	<=23	Pass
		Inner_Full	22.18	/	/	18.58	/	/	<=23	Pass
		Inner_1RB_Left	24.53	/	/	20.93	/	/	<=23	Pass
		Inner_1RB_Right	19.21	/	/	15.61	/	/	<=23	Pass
	3690	Edge_1RB_Left	22.38	/	/	18.78	/	/	<=23	Pass
		Edge_1RB_Right	24.23	/	/	20.63	/	/	<=23	Pass
		Outer_Full	20.97	/	/	17.37	/	/	<=23	Pass
		Inner_Full	22.00	/	/	18.4	/	/	<=23	Pass
		Inner_1RB_Left	18.60	/	/	15	/	/	<=23	Pass
DFT-s-OFDM QPSK	3560.01	Inner_1RB_Right	18.81	/	/	15.21	/	/	<=23	Pass
		Edge_1RB_Left	23.41	/	/	19.81	/	/	<=23	Pass
		Edge_1RB_Right	22.27	/	/	18.67	/	/	<=23	Pass
		Outer_Full	20.36	/	/	16.76	/	/	<=23	Pass
		Inner_Full	22.34	/	/	18.74	/	/	<=23	Pass
	3624.99	Inner_1RB_Left	22.12	/	/	18.52	/	/	<=23	Pass
		Inner_1RB_Right	22.66	/	/	19.06	/	/	<=23	Pass
		Edge_1RB_Left	21.41	/	/	17.81	/	/	<=23	Pass
		Edge_1RB_Right	21.74	/	/	18.14	/	/	<=23	Pass
		Outer_Full	20.80	/	/	17.2	/	/	<=23	Pass
3690	Inner_Full	23.00	/	/	19.4	/	/	<=23	Pass	
	Inner_1RB_Left	24.00	/	/	20.4	/	/	<=23	Pass	
	Inner_1RB_Right	22.06	/	/	18.46	/	/	<=23	Pass	
	Edge_1RB_Left	23.94	/	/	20.34	/	/	<=23	Pass	
	Edge_1RB_Right	23.59	/	/	19.99	/	/	<=23	Pass	
DFT-s-OFDM 16 QAM	3560.01	Outer_Full	21.53	/	/	17.93	/	/	<=23	Pass
		Inner_Full	22.39	/	/	18.79	/	/	<=23	Pass
		Inner_1RB_Left	23.70	/	/	20.1	/	/	<=23	Pass
		Inner_1RB_Right	21.28	/	/	17.68	/	/	<=23	Pass
		Edge_1RB_Left	22.96	/	/	19.36	/	/	<=23	Pass
	3624.99	Edge_1RB_Right	22.99	/	/	19.39	/	/	<=23	Pass
		Outer_Full	21.04	/	/	17.44	/	/	<=23	Pass
		Inner_Full	22.50	/	/	18.9	/	/	<=23	Pass
		Inner_1RB_Left	22.46	/	/	18.86	/	/	<=23	Pass
		Inner_1RB_Right	23.36	/	/	19.76	/	/	<=23	Pass
3690	Edge_1RB_Left	22.81	/	/	19.21	/	/	<=23	Pass	
	Edge_1RB_Right	22.79	/	/	19.19	/	/	<=23	Pass	
	Outer_Full	20.45	/	/	16.85	/	/	<=23	Pass	
	Inner_Full	23.39	/	/	19.79	/	/	<=23	Pass	
	Inner_1RB_Left	22.62	/	/	19.02	/	/	<=23	Pass	
DFT-s-OFDM 64 QAM	3560.01	Inner_1RB_Right	22.45	/	/	18.85	/	/	<=23	Pass
		Edge_1RB_Left	23.91	/	/	20.31	/	/	<=23	Pass
		Edge_1RB_Right	22.43	/	/	18.83	/	/	<=23	Pass
		Outer_Full	21.38	/	/	17.78	/	/	<=23	Pass
		Inner_Full	22.86	/	/	19.26	/	/	<=23	Pass
		Inner_1RB_Left	23.57	/	/	19.97	/	/	<=23	Pass
		Inner_1RB_Right	24.33	/	/	20.73	/	/	<=23	Pass
		Edge_1RB_Left	22.84	/	/	19.24	/	/	<=23	Pass



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		Edge_1RB_Right	21.70	/	/	18.1	/	/	<=23	Pass	
		Outer_Full	20.29	/	/	16.69	/	/	<=23	Pass	
		Inner_Full	22.89	/	/	19.29	/	/	<=23	Pass	
		Inner_1RB_Left	22.21	/	/	18.61	/	/	<=23	Pass	
		Inner_1RB_Right	22.41	/	/	18.81	/	/	<=23	Pass	
	3624.99		Edge_1RB_Left	24.00	/	/	20.4	/	/	<=23	Pass
			Edge_1RB_Right	23.35	/	/	19.75	/	/	<=23	Pass
			Outer_Full	20.15	/	/	16.55	/	/	<=23	Pass
			Inner_Full	23.55	/	/	19.95	/	/	<=23	Pass
			Inner_1RB_Left	22.91	/	/	19.31	/	/	<=23	Pass
	3690		Inner_1RB_Right	21.79	/	/	18.19	/	/	<=23	Pass
			Edge_1RB_Left	23.03	/	/	19.43	/	/	<=23	Pass
			Edge_1RB_Right	22.86	/	/	19.26	/	/	<=23	Pass
			Outer_Full	19.84	/	/	16.24	/	/	<=23	Pass
			Inner_Full	23.64	/	/	20.04	/	/	<=23	Pass
DFT-s-OFDM 256 QAM	3560.01	Inner_1RB_Left	23.23	/	/	19.63	/	/	<=23	Pass	
		Inner_1RB_Right	24.72	/	/	21.12	/	/	<=23	Pass	
		Edge_1RB_Left	22.69	/	/	19.09	/	/	<=23	Pass	
		Edge_1RB_Right	19.07	/	/	15.47	/	/	<=23	Pass	
		Outer_Full	19.92	/	/	16.32	/	/	<=23	Pass	
	3624.99		Inner_Full	22.53	/	/	18.93	/	/	<=23	Pass
			Inner_1RB_Left	22.56	/	/	18.96	/	/	<=23	Pass
			Inner_1RB_Right	22.54	/	/	18.94	/	/	<=23	Pass
			Edge_1RB_Left	22.39	/	/	18.79	/	/	<=23	Pass
			Edge_1RB_Right	21.82	/	/	18.22	/	/	<=23	Pass
	3690		Outer_Full	19.22	/	/	15.62	/	/	<=23	Pass
			Inner_Full	22.95	/	/	19.35	/	/	<=23	Pass
			Inner_1RB_Left	22.40	/	/	18.8	/	/	<=23	Pass
			Inner_1RB_Right	20.82	/	/	17.22	/	/	<=23	Pass
			Edge_1RB_Left	21.84	/	/	18.24	/	/	<=23	Pass
CP-OFDM QPSK	3560.01	Edge_1RB_Right	22.72	/	/	19.12	/	/	<=23	Pass	
		Outer_Full	17.67	/	/	14.07	/	/	<=23	Pass	
		Inner_Full	24.35	/	/	20.75	/	/	<=23	Pass	
		Inner_1RB_Left	23.49	/	/	19.89	/	/	<=23	Pass	
		Inner_1RB_Right	20.69	/	/	17.09	/	/	<=23	Pass	
	3624.99		Edge_1RB_Left	21.92	/	/	18.32	/	/	<=23	Pass
			Edge_1RB_Right	21.24	/	/	17.64	/	/	<=23	Pass
			Outer_Full	20.42	/	/	16.82	/	/	<=23	Pass
			Inner_Full	22.24	/	/	18.64	/	/	<=23	Pass
			Inner_1RB_Left	23.06	/	/	19.46	/	/	<=23	Pass
	3690		Inner_1RB_Right	22.37	/	/	18.77	/	/	<=23	Pass
			Edge_1RB_Left	22.37	/	/	18.77	/	/	<=23	Pass
			Edge_1RB_Right	20.24	/	/	16.64	/	/	<=23	Pass
			Outer_Full	20.90	/	/	17.3	/	/	<=23	Pass
			Inner_Full	18.75	/	/	15.15	/	/	<=23	Pass
		Inner_1RB_Left	23.24	/	/	19.64	/	/	<=23	Pass	
		Inner_1RB_Right	23.17	/	/	19.57	/	/	<=23	Pass	
	3690	Edge_1RB_Left	23.72	/	/	20.12	/	/	<=23	Pass	



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		Edge_1RB_Right	24.30	/	/	20.7	/	/	<=23	Pass
		Outer_Full	20.70	/	/	17.1	/	/	<=23	Pass
		Inner_Full	21.92	/	/	18.32	/	/	<=23	Pass
		Inner_1RB_Left	23.47	/	/	19.87	/	/	<=23	Pass
		Inner_1RB_Right	23.28	/	/	19.68	/	/	<=23	Pass
CP-OFDM 16 QAM	3560.01	Edge_1RB_Left	23.83	/	/	20.23	/	/	<=23	Pass
		Edge_1RB_Right	22.10	/	/	18.5	/	/	<=23	Pass
		Outer_Full	20.51	/	/	16.91	/	/	<=23	Pass
		Inner_Full	22.08	/	/	18.48	/	/	<=23	Pass
		Inner_1RB_Left	23.42	/	/	19.82	/	/	<=23	Pass
	3624.99	Inner_1RB_Right	21.75	/	/	18.15	/	/	<=23	Pass
		Edge_1RB_Left	23.94	/	/	20.34	/	/	<=23	Pass
		Edge_1RB_Right	21.73	/	/	18.13	/	/	<=23	Pass
		Outer_Full	19.60	/	/	16	/	/	<=23	Pass
		Inner_Full	22.11	/	/	18.51	/	/	<=23	Pass
	3690	Inner_1RB_Left	23.21	/	/	19.61	/	/	<=23	Pass
		Inner_1RB_Right	22.78	/	/	19.18	/	/	<=23	Pass
		Edge_1RB_Left	20.85	/	/	17.25	/	/	<=23	Pass
		Edge_1RB_Right	21.80	/	/	18.2	/	/	<=23	Pass
		Outer_Full	20.87	/	/	17.27	/	/	<=23	Pass
CP-OFDM 64 QAM	3560.01	Inner_Full	24.55	/	/	20.95	/	/	<=23	Pass
		Inner_1RB_Left	24.22	/	/	20.62	/	/	<=23	Pass
		Inner_1RB_Right	22.91	/	/	19.31	/	/	<=23	Pass
		Edge_1RB_Left	20.92	/	/	17.32	/	/	<=23	Pass
		Edge_1RB_Right	22.72	/	/	19.12	/	/	<=23	Pass
	3624.99	Outer_Full	20.70	/	/	17.1	/	/	<=23	Pass
		Inner_Full	22.96	/	/	19.36	/	/	<=23	Pass
		Inner_1RB_Left	21.78	/	/	18.18	/	/	<=23	Pass
		Inner_1RB_Right	22.42	/	/	18.82	/	/	<=23	Pass
		Edge_1RB_Left	21.45	/	/	17.85	/	/	<=23	Pass
	3690	Edge_1RB_Right	23.84	/	/	20.24	/	/	<=23	Pass
		Outer_Full	20.39	/	/	16.79	/	/	<=23	Pass
		Inner_Full	22.78	/	/	19.18	/	/	<=23	Pass
		Inner_1RB_Left	24.44	/	/	20.84	/	/	<=23	Pass
		Inner_1RB_Right	22.67	/	/	19.07	/	/	<=23	Pass
CP-OFDM 256 QAM	3560.01	Edge_1RB_Left	23.67	/	/	20.07	/	/	<=23	Pass
		Edge_1RB_Right	21.16	/	/	17.56	/	/	<=23	Pass
		Outer_Full	20.70	/	/	17.1	/	/	<=23	Pass
		Inner_Full	22.61	/	/	19.01	/	/	<=23	Pass
		Inner_1RB_Left	22.65	/	/	19.05	/	/	<=23	Pass
3624.99	Inner_1RB_Right	22.01	/	/	18.41	/	/	<=23	Pass	
	Edge_1RB_Left	20.36	/	/	16.76	/	/	<=23	Pass	
	Edge_1RB_Right	20.18	/	/	16.58	/	/	<=23	Pass	
	Outer_Full	17.93	/	/	14.33	/	/	<=23	Pass	
	Inner_Full	20.60	/	/	17	/	/	<=23	Pass	
	3624.99	Inner_1RB_Left	19.42	/	/	15.82	/	/	<=23	Pass
		Inner_1RB_Right	20.36	/	/	16.76	/	/	<=23	Pass
		Edge_1RB_Left	21.35	/	/	17.75	/	/	<=23	Pass



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		Edge_1RB_Right	20.37	/	/	16.77	/	/	<=23	Pass
		Outer_Full	17.49	/	/	13.89	/	/	<=23	Pass
		Inner_Full	19.73	/	/	16.13	/	/	<=23	Pass
		Inner_1RB_Left	19.74	/	/	16.14	/	/	<=23	Pass
		Inner_1RB_Right	20.65	/	/	17.05	/	/	<=23	Pass
	3690	Edge_1RB_Right	20.18	/	/	16.58	/	/	<=23	Pass
		Edge_1RB_Right	21.29	/	/	17.69	/	/	<=23	Pass
		Outer_Full	18.16	/	/	14.56	/	/	<=23	Pass
		Inner_Full	19.36	/	/	15.76	/	/	<=23	Pass
		Inner_1RB_Left	19.94	/	/	16.34	/	/	<=23	Pass
		Inner_1RB_Right	20.60	/	/	17	/	/	<=23	Pass

Note1: Antenna Gain: Ant1: -3.6dBi; Ant4: -3.6dBi;
Note2: EIRP=Conducted Power+Antenna Gain

1.3 30k_SISO_40MHz_NTNV_EIRP/10MHz

1.3.1 Test Result

5G NR n48 SCS=30kHz SISO 40MHz NTNv										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm/10MHz)			EIRP(dBm/10MHz)				Verdict
			Ant1	Ant4	Sum	Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3570	Edge_1RB_Left	22.57	/	/	18.97	/	/	<=23	Pass
		Edge_1RB_Right	18.37	/	/	14.77	/	/	<=23	Pass
		Outer_Full	15.19	/	/	11.59	/	/	<=23	Pass
		Inner_Full	19.24	/	/	15.64	/	/	<=23	Pass
		Inner_1RB_Left	20.51	/	/	16.91	/	/	<=23	Pass
		Inner_1RB_Right	21.57	/	/	17.97	/	/	<=23	Pass
	3624.99	Edge_1RB_Left	20.91	/	/	17.31	/	/	<=23	Pass
		Edge_1RB_Right	22.89	/	/	19.29	/	/	<=23	Pass
		Outer_Full	18.60	/	/	15	/	/	<=23	Pass
		Inner_Full	20.07	/	/	16.47	/	/	<=23	Pass
		Inner_1RB_Left	23.53	/	/	19.93	/	/	<=23	Pass
		Inner_1RB_Right	19.38	/	/	15.78	/	/	<=23	Pass
	3679.98	Edge_1RB_Left	18.60	/	/	15	/	/	<=23	Pass
		Edge_1RB_Right	23.64	/	/	20.04	/	/	<=23	Pass
		Outer_Full	18.45	/	/	14.85	/	/	<=23	Pass
		Inner_Full	21.78	/	/	18.18	/	/	<=23	Pass
		Inner_1RB_Left	24.65	/	/	21.05	/	/	<=23	Pass
		Inner_1RB_Right	23.48	/	/	19.88	/	/	<=23	Pass
DFT-s-OFDM QPSK	3570	Edge_1RB_Left	21.31	/	/	17.71	/	/	<=23	Pass
		Edge_1RB_Right	19.26	/	/	15.66	/	/	<=23	Pass
		Outer_Full	15.23	/	/	11.63	/	/	<=23	Pass
		Inner_Full	22.22	/	/	18.62	/	/	<=23	Pass
		Inner_1RB_Left	24.12	/	/	20.52	/	/	<=23	Pass
		Inner_1RB_Right	19.85	/	/	16.25	/	/	<=23	Pass
	3624.99	Edge_1RB_Left	22.08	/	/	18.48	/	/	<=23	Pass



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		Edge_1RB_Right	23.50	/	/	19.9	/	/	<=23	Pass
		Outer_Full	17.00	/	/	13.4	/	/	<=23	Pass
		Inner_Full	20.26	/	/	16.66	/	/	<=23	Pass
		Inner_1RB_Left	19.82	/	/	16.22	/	/	<=23	Pass
		Inner_1RB_Right	18.57	/	/	14.97	/	/	<=23	Pass
	3679.98	Edge_1RB_Right	23.16	/	/	19.56	/	/	<=23	Pass
		Edge_1RB_Right	20.52	/	/	16.92	/	/	<=23	Pass
		Outer_Full	18.98	/	/	15.38	/	/	<=23	Pass
		Inner_Full	21.65	/	/	18.05	/	/	<=23	Pass
		Inner_1RB_Left	25.03	/	/	21.43	/	/	<=23	Pass
DFT-s-OFDM 16 QAM	3570	Inner_1RB_Right	19.25	/	/	15.65	/	/	<=23	Pass
		Edge_1RB_Left	23.98	/	/	20.38	/	/	<=23	Pass
		Edge_1RB_Right	20.88	/	/	17.28	/	/	<=23	Pass
		Outer_Full	16.75	/	/	13.15	/	/	<=23	Pass
		Inner_Full	18.48	/	/	14.88	/	/	<=23	Pass
	3624.99	Inner_1RB_Left	23.10	/	/	19.5	/	/	<=23	Pass
		Inner_1RB_Right	23.22	/	/	19.62	/	/	<=23	Pass
		Edge_1RB_Left	23.13	/	/	19.53	/	/	<=23	Pass
		Edge_1RB_Right	21.65	/	/	18.05	/	/	<=23	Pass
		Outer_Full	17.87	/	/	14.27	/	/	<=23	Pass
3679.98	Inner_Full	19.66	/	/	16.06	/	/	<=23	Pass	
	Inner_1RB_Left	22.21	/	/	18.61	/	/	<=23	Pass	
	Inner_1RB_Right	22.24	/	/	18.64	/	/	<=23	Pass	
	Edge_1RB_Left	24.52	/	/	20.92	/	/	<=23	Pass	
	Edge_1RB_Right	23.27	/	/	19.67	/	/	<=23	Pass	
DFT-s-OFDM 64 QAM	3570	Outer_Full	16.55	/	/	12.95	/	/	<=23	Pass
		Inner_Full	22.24	/	/	18.64	/	/	<=23	Pass
		Inner_1RB_Left	23.43	/	/	19.83	/	/	<=23	Pass
		Inner_1RB_Right	24.70	/	/	21.1	/	/	<=23	Pass
		Edge_1RB_Left	22.25	/	/	18.65	/	/	<=23	Pass
	3624.99	Edge_1RB_Right	23.96	/	/	20.36	/	/	<=23	Pass
		Outer_Full	18.13	/	/	14.53	/	/	<=23	Pass
		Inner_Full	20.59	/	/	16.99	/	/	<=23	Pass
		Inner_1RB_Left	23.72	/	/	20.12	/	/	<=23	Pass
		Inner_1RB_Right	21.97	/	/	18.37	/	/	<=23	Pass
3679.98	Edge_1RB_Left	24.34	/	/	20.74	/	/	<=23	Pass	
	Edge_1RB_Right	22.77	/	/	19.17	/	/	<=23	Pass	
	Outer_Full	17.67	/	/	14.07	/	/	<=23	Pass	
	Inner_Full	20.66	/	/	17.06	/	/	<=23	Pass	
	Inner_1RB_Left	22.32	/	/	18.72	/	/	<=23	Pass	
DFT-s-OFDM 256	3570	Inner_1RB_Right	23.65	/	/	20.05	/	/	<=23	Pass
		Edge_1RB_Left	24.33	/	/	20.73	/	/	<=23	Pass
		Edge_1RB_Right	24.13	/	/	20.53	/	/	<=23	Pass
		Outer_Full	18.41	/	/	14.81	/	/	<=23	Pass
		Inner_Full	20.81	/	/	17.21	/	/	<=23	Pass
		Inner_1RB_Left	23.38	/	/	19.78	/	/	<=23	Pass
		Inner_1RB_Right	23.23	/	/	19.63	/	/	<=23	Pass
		Edge_1RB_Left	22.98	/	/	19.38	/	/	<=23	Pass



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QAM		Edge_1RB_Right	23.67	/	/	20.07	/	/	<=23	Pass
		Outer_Full	16.78	/	/	13.18	/	/	<=23	Pass
		Inner_Full	18.51	/	/	14.91	/	/	<=23	Pass
		Inner_1RB_Left	21.95	/	/	18.35	/	/	<=23	Pass
		Inner_1RB_Right	23.05	/	/	19.45	/	/	<=23	Pass
	3624.99	Edge_1RB_Left	23.18	/	/	19.58	/	/	<=23	Pass
		Edge_1RB_Right	22.96	/	/	19.36	/	/	<=23	Pass
		Outer_Full	17.78	/	/	14.18	/	/	<=23	Pass
		Inner_Full	19.32	/	/	15.72	/	/	<=23	Pass
		Inner_1RB_Left	21.98	/	/	18.38	/	/	<=23	Pass
	3679.98	Inner_1RB_Right	22.68	/	/	19.08	/	/	<=23	Pass
		Edge_1RB_Left	23.70	/	/	20.1	/	/	<=23	Pass
		Edge_1RB_Right	22.98	/	/	19.38	/	/	<=23	Pass
		Outer_Full	18.11	/	/	14.51	/	/	<=23	Pass
		Inner_Full	19.26	/	/	15.66	/	/	<=23	Pass
CP-OFDM QPSK	3570	Inner_1RB_Left	23.74	/	/	20.14	/	/	<=23	Pass
		Inner_1RB_Right	23.43	/	/	19.83	/	/	<=23	Pass
		Edge_1RB_Left	22.74	/	/	19.14	/	/	<=23	Pass
		Edge_1RB_Right	21.87	/	/	18.27	/	/	<=23	Pass
		Outer_Full	13.18	/	/	9.58	/	/	<=23	Pass
	3624.99	Inner_Full	20.55	/	/	16.95	/	/	<=23	Pass
		Inner_1RB_Left	16.99	/	/	13.39	/	/	<=23	Pass
		Inner_1RB_Right	21.09	/	/	17.49	/	/	<=23	Pass
		Edge_1RB_Left	22.43	/	/	18.83	/	/	<=23	Pass
		Edge_1RB_Right	19.71	/	/	16.11	/	/	<=23	Pass
	3679.98	Outer_Full	17.40	/	/	13.8	/	/	<=23	Pass
		Inner_Full	20.33	/	/	16.73	/	/	<=23	Pass
		Inner_1RB_Left	24.23	/	/	20.63	/	/	<=23	Pass
		Inner_1RB_Right	18.14	/	/	14.54	/	/	<=23	Pass
		Edge_1RB_Left	21.47	/	/	17.87	/	/	<=23	Pass
CP-OFDM 16 QAM	3570	Edge_1RB_Right	20.56	/	/	16.96	/	/	<=23	Pass
		Outer_Full	11.57	/	/	7.97	/	/	<=23	Pass
		Inner_Full	20.42	/	/	16.82	/	/	<=23	Pass
		Inner_1RB_Left	24.66	/	/	21.06	/	/	<=23	Pass
		Inner_1RB_Right	20.71	/	/	17.11	/	/	<=23	Pass
	3624.99	Edge_1RB_Left	23.06	/	/	19.46	/	/	<=23	Pass
		Edge_1RB_Right	18.99	/	/	15.39	/	/	<=23	Pass
		Outer_Full	13.54	/	/	9.94	/	/	<=23	Pass
		Inner_Full	21.30	/	/	17.7	/	/	<=23	Pass
		Inner_1RB_Left	23.71	/	/	20.11	/	/	<=23	Pass
	3679.98	Inner_1RB_Right	20.06	/	/	16.46	/	/	<=23	Pass
		Edge_1RB_Left	23.23	/	/	19.63	/	/	<=23	Pass
		Edge_1RB_Right	21.42	/	/	17.82	/	/	<=23	Pass
		Outer_Full	17.15	/	/	13.55	/	/	<=23	Pass
		Inner_Full	17.58	/	/	13.98	/	/	<=23	Pass
	Inner_1RB_Left	23.61	/	/	20.01	/	/	<=23	Pass	
	Inner_1RB_Right	21.97	/	/	18.37	/	/	<=23	Pass	
	Edge_1RB_Left	22.12	/	/	18.52	/	/	<=23	Pass	



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		Edge_1RB_Right	22.24	/	/	18.64	/	/	<=23	Pass
		Outer_Full	15.33	/	/	11.73	/	/	<=23	Pass
		Inner_Full	20.02	/	/	16.42	/	/	<=23	Pass
		Inner_1RB_Left	23.51	/	/	19.91	/	/	<=23	Pass
		Inner_1RB_Right	21.21	/	/	17.61	/	/	<=23	Pass
CP-OFDM 64 QAM	3570	Edge_1RB_Left	22.38	/	/	18.78	/	/	<=23	Pass
		Edge_1RB_Right	23.28	/	/	19.68	/	/	<=23	Pass
		Outer_Full	17.23	/	/	13.63	/	/	<=23	Pass
		Inner_Full	20.13	/	/	16.53	/	/	<=23	Pass
		Inner_1RB_Left	22.63	/	/	19.03	/	/	<=23	Pass
	3624.99	Inner_1RB_Right	23.38	/	/	19.78	/	/	<=23	Pass
		Edge_1RB_Left	22.69	/	/	19.09	/	/	<=23	Pass
		Edge_1RB_Right	22.96	/	/	19.36	/	/	<=23	Pass
		Outer_Full	17.31	/	/	13.71	/	/	<=23	Pass
		Inner_Full	19.67	/	/	16.07	/	/	<=23	Pass
	3679.98	Inner_1RB_Left	23.83	/	/	20.23	/	/	<=23	Pass
		Inner_1RB_Right	23.53	/	/	19.93	/	/	<=23	Pass
		Edge_1RB_Left	24.81	/	/	21.21	/	/	<=23	Pass
		Edge_1RB_Right	24.47	/	/	20.87	/	/	<=23	Pass
		Outer_Full	15.88	/	/	12.28	/	/	<=23	Pass
CP-OFDM 256 QAM	3570	Inner_Full	20.38	/	/	16.78	/	/	<=23	Pass
		Inner_1RB_Left	24.13	/	/	20.53	/	/	<=23	Pass
		Inner_1RB_Right	22.38	/	/	18.78	/	/	<=23	Pass
		Edge_1RB_Left	20.90	/	/	17.3	/	/	<=23	Pass
		Edge_1RB_Right	21.99	/	/	18.39	/	/	<=23	Pass
	3624.99	Outer_Full	17.10	/	/	13.5	/	/	<=23	Pass
		Inner_Full	17.63	/	/	14.03	/	/	<=23	Pass
		Inner_1RB_Left	20.90	/	/	17.3	/	/	<=23	Pass
		Inner_1RB_Right	20.53	/	/	16.93	/	/	<=23	Pass
		Edge_1RB_Left	17.74	/	/	14.14	/	/	<=23	Pass
	3679.98	Edge_1RB_Right	17.32	/	/	13.72	/	/	<=23	Pass
		Outer_Full	14.99	/	/	11.39	/	/	<=23	Pass
		Inner_Full	17.83	/	/	14.23	/	/	<=23	Pass
		Inner_1RB_Left	18.83	/	/	15.23	/	/	<=23	Pass
		Inner_1RB_Right	20.23	/	/	16.63	/	/	<=23	Pass
		Edge_1RB_Left	21.39	/	/	17.79	/	/	<=23	Pass
		Edge_1RB_Right	18.09	/	/	14.49	/	/	<=23	Pass
		Outer_Full	15.81	/	/	12.21	/	/	<=23	Pass
		Inner_Full	15.63	/	/	12.03	/	/	<=23	Pass
		Inner_1RB_Left	21.79	/	/	18.19	/	/	<=23	Pass
		Inner_1RB_Right	21.44	/	/	17.84	/	/	<=23	Pass
Note1: Antenna Gain: Ant1: -3.6dBi; Ant4: -3.6dBi; Note2: EIRP=Conducted Power+Antenna Gain										



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1.4 30k_MIMO_10MHz_NTNV_EIRP/10MHz

1.4.1 Test Result

5G NR n48 SCS=30kHz MIMO 10MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm/10MHz)			EIRP(dBm/10MHz)				Verdict
			Ant1	Ant4	Sum	Ant1	Ant4	Sum	Limit	
CP-OFDM QPSK	3555	Edge_1RB_Left	20.63	20.45	23.55	17.03	16.85	19.95	<=23	Pass
		Edge_1RB_Right	21.08	20.4	23.76	17.48	16.8	20.16	<=23	Pass
		Outer_Full	20.99	20.44	23.73	17.39	16.84	20.13	<=23	Pass
		Inner_Full	20.95	20.36	23.68	17.35	16.76	20.08	<=23	Pass
		Inner_1RB_Left	20.56	20.7	23.64	16.96	17.1	20.04	<=23	Pass
		Inner_1RB_Right	19.82	20.59	23.23	16.22	16.99	19.63	<=23	Pass
	3624.99	Edge_1RB_Left	21.18	21.01	24.11	17.58	17.41	20.51	<=23	Pass
		Edge_1RB_Right	20.58	20.12	23.37	16.98	16.52	19.77	<=23	Pass
		Outer_Full	21.15	21.13	24.15	17.55	17.53	20.55	<=23	Pass
		Inner_Full	20.59	21.05	23.84	16.99	17.45	20.24	<=23	Pass
		Inner_1RB_Left	21.48	20.4	23.98	17.88	16.8	20.38	<=23	Pass
		Inner_1RB_Right	20.87	20.43	23.67	17.27	16.83	20.07	<=23	Pass
	3694.98	Edge_1RB_Left	21.19	20.48	23.86	17.59	16.88	20.26	<=23	Pass
		Edge_1RB_Right	22.57	20.53	24.68	18.97	16.93	21.08	<=23	Pass
		Outer_Full	20.61	20.22	23.43	17.01	16.62	19.83	<=23	Pass
Inner_Full		21.15	19.26	23.32	17.55	15.66	19.72	<=23	Pass	
Inner_1RB_Left		20.48	20.33	23.42	16.88	16.73	19.82	<=23	Pass	
Inner_1RB_Right		20.44	19.35	22.94	16.84	15.75	19.34	<=23	Pass	
CP-OFDM 16 QAM	3555	Edge_1RB_Left	20.86	20.18	23.54	17.26	16.58	19.94	<=23	Pass
		Edge_1RB_Right	21.64	19.67	23.78	18.04	16.07	20.18	<=23	Pass
		Outer_Full	21.2	19.77	23.55	17.6	16.17	19.95	<=23	Pass
		Inner_Full	20.01	19.53	22.79	16.41	15.93	19.19	<=23	Pass
		Inner_1RB_Left	20.94	20.02	23.51	17.34	16.42	19.91	<=23	Pass
		Inner_1RB_Right	20.27	18.67	22.55	16.67	15.07	18.95	<=23	Pass
	3624.99	Edge_1RB_Left	21.88	21.5	24.7	18.28	17.9	21.1	<=23	Pass
		Edge_1RB_Right	21.33	20.64	24.01	17.73	17.04	20.41	<=23	Pass
		Outer_Full	20.86	20.37	23.63	17.26	16.77	20.03	<=23	Pass
		Inner_Full	20.91	21.02	23.98	17.31	17.42	20.38	<=23	Pass
		Inner_1RB_Left	20.95	20.83	23.9	17.35	17.23	20.3	<=23	Pass
		Inner_1RB_Right	21.46	20.71	24.11	17.86	17.11	20.51	<=23	Pass
	3694.98	Edge_1RB_Left	21.38	20.06	23.78	17.78	16.46	20.18	<=23	Pass
		Edge_1RB_Right	21.82	21.12	24.49	18.22	17.52	20.89	<=23	Pass
		Outer_Full	21.23	20.62	23.95	17.63	17.02	20.35	<=23	Pass
Inner_Full		20.63	19.81	23.25	17.03	16.21	19.65	<=23	Pass	
Inner_1RB_Left		21.68	19.03	23.56	18.08	15.43	19.96	<=23	Pass	
Inner_1RB_Right		22.11	21.25	24.71	18.51	17.65	21.11	<=23	Pass	
CP-OFDM 64 QAM	3555	Edge_1RB_Left	20.77	20.79	23.79	17.17	17.19	20.19	<=23	Pass
		Edge_1RB_Right	19.81	20.8	23.34	16.21	17.2	19.74	<=23	Pass
		Outer_Full	20.8	20.03	23.44	17.2	16.43	19.84	<=23	Pass
		Inner_Full	20.45	20.37	23.42	16.85	16.77	19.82	<=23	Pass



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CP-OFDM 256 QAM	3624.99	Inner_1RB_Left	20.18	20.17	23.19	16.58	16.57	19.59	<=23	Pass
		Inner_1RB_Right	19.69	20.12	22.92	16.09	16.52	19.32	<=23	Pass
		Edge_1RB_Left	19.83	20.87	23.39	16.23	17.27	19.79	<=23	Pass
		Edge_1RB_Right	21.59	20.44	24.06	17.99	16.84	20.46	<=23	Pass
		Outer_Full	21.36	20.98	24.18	17.76	17.38	20.58	<=23	Pass
		Inner_Full	20.88	19.55	23.28	17.28	15.95	19.68	<=23	Pass
	3694.98	Inner_1RB_Left	20.25	20.54	23.41	16.65	16.94	19.81	<=23	Pass
		Inner_1RB_Right	20.31	20.78	23.56	16.71	17.18	19.96	<=23	Pass
		Edge_1RB_Left	19.94	21.7	23.92	16.34	18.1	20.32	<=23	Pass
		Edge_1RB_Right	21.7	21.22	24.48	18.1	17.62	20.88	<=23	Pass
		Outer_Full	21.61	21.21	24.42	18.01	17.61	20.82	<=23	Pass
		Inner_Full	21.87	20.79	24.37	18.27	17.19	20.77	<=23	Pass
	3555	Inner_1RB_Left	19.74	20.22	23	16.14	16.62	19.4	<=23	Pass
		Inner_1RB_Right	20.78	20.78	23.79	17.18	17.18	20.19	<=23	Pass
		Edge_1RB_Left	17.98	17.89	20.95	14.38	14.29	17.35	<=23	Pass
		Edge_1RB_Right	18.54	17.88	21.23	14.94	14.28	17.63	<=23	Pass
		Outer_Full	18.59	17.84	21.24	14.99	14.24	17.64	<=23	Pass
		Inner_Full	18.2	18.48	21.35	14.6	14.88	17.75	<=23	Pass
		Inner_1RB_Left	17.93	15.69	19.96	14.33	12.09	16.36	<=23	Pass
		Inner_1RB_Right	18.87	18.16	21.54	15.27	14.56	17.94	<=23	Pass
3624.99		Edge_1RB_Left	18.13	12.79	19.24	14.53	9.19	15.64	<=23	Pass
		Edge_1RB_Right	18.74	17.95	21.37	15.14	14.35	17.77	<=23	Pass
		Outer_Full	17.98	18.2	21.1	14.38	14.6	17.5	<=23	Pass
		Inner_Full	18.51	16.78	20.74	14.91	13.18	17.14	<=23	Pass
		Inner_1RB_Left	18.42	18.85	21.65	14.82	15.25	18.05	<=23	Pass
		Inner_1RB_Right	15.37	18.01	19.9	11.77	14.41	16.3	<=23	Pass
3694.98		Edge_1RB_Left	18.57	18.21	21.4	14.97	14.61	17.8	<=23	Pass
		Edge_1RB_Right	18.95	18.2	21.6	15.35	14.6	18	<=23	Pass
		Outer_Full	17.74	18.46	21.13	14.14	14.86	17.53	<=23	Pass
		Inner_Full	18.26	17.89	21.09	14.66	14.29	17.49	<=23	Pass
	Inner_1RB_Left	18.85	17.62	21.29	15.25	14.02	17.69	<=23	Pass	
	Inner_1RB_Right	18.62	17.9	21.29	15.02	14.3	17.69	<=23	Pass	

Note1: Antenna Gain: Ant1: -3.6dBi; Ant4: -3.6dBi;

1.5 30k_MIMO_20MHz_NTNV_EIRP/10MHz

1.5.1 Test Result

5G NR n48 SCS=30kHz MIMO 20MHz NTNv										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm/10MHz)			EIRP(dBm/10MHz)				Verdict
			Ant1	Ant4	Sum	Ant1	Ant4	Sum	Limit	
CP-OFDM QPSK	3560.01	Edge_1RB_Left	20.48	20.59	23.55	16.88	16.99	19.95	<=23	Pass
		Edge_1RB_Right	19.77	20.3	23.05	16.17	16.7	19.45	<=23	Pass
		Outer_Full	17.96	16.72	20.39	14.36	13.12	16.79	<=23	Pass
		Inner_Full	20.07	20.29	23.19	16.47	16.69	19.59	<=23	Pass
		Inner_1RB_Left	20.52	20.06	23.31	16.92	16.46	19.71	<=23	Pass



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	3624.99	Inner_1RB_Right	20.55	20.22	23.4	16.95	16.62	19.8	<=23	Pass	
		Edge_1RB_Left	21.48	20.19	23.89	17.88	16.59	20.29	<=23	Pass	
		Edge_1RB_Right	20	20.07	23.05	16.4	16.47	19.45	<=23	Pass	
		Outer_Full	17.02	17.67	20.37	13.42	14.07	16.77	<=23	Pass	
		Inner_Full	20.76	19.21	23.06	17.16	15.61	19.46	<=23	Pass	
		Inner_1RB_Left	20.87	19.49	23.24	17.27	15.89	19.64	<=23	Pass	
	3690	Inner_1RB_Right	21.43	19.78	23.69	17.83	16.18	20.09	<=23	Pass	
		Edge_1RB_Left	20.29	19.21	22.79	16.69	15.61	19.19	<=23	Pass	
		Edge_1RB_Right	21.83	20.34	24.16	18.23	16.74	20.56	<=23	Pass	
		Outer_Full	19.74	15.71	21.19	16.14	12.11	17.59	<=23	Pass	
		Inner_Full	20.04	20.01	23.04	16.44	16.41	19.44	<=23	Pass	
		Inner_1RB_Left	20.35	20.99	23.69	16.75	17.39	20.09	<=23	Pass	
CP-OFDM 16 QAM	3560.01	Inner_1RB_Right	21.85	16.6	22.98	18.25	13	19.38	<=23	Pass	
		Edge_1RB_Left	20.66	20.45	23.57	17.06	16.85	19.97	<=23	Pass	
		Edge_1RB_Right	20.74	20.96	23.86	17.14	17.36	20.26	<=23	Pass	
		Outer_Full	-17.07	17.03	17.03	-20.67	13.43	13.43	<=23	Pass	
		Inner_Full	20.27	17.08	21.97	16.67	13.48	18.37	<=23	Pass	
		Inner_1RB_Left	20.27	18.91	22.65	16.67	15.31	19.05	<=23	Pass	
	3624.99	Inner_1RB_Right	-18.02	20.58	20.58	-21.62	16.98	16.98	<=23	Pass	
		Edge_1RB_Left	20.24	20.92	23.6	16.64	17.32	20	<=23	Pass	
		Edge_1RB_Right	19.71	20.02	22.88	16.11	16.42	19.28	<=23	Pass	
		Outer_Full	18.07	17.95	21.02	14.47	14.35	17.42	<=23	Pass	
		Inner_Full	20.33	20.45	23.4	16.73	16.85	19.8	<=23	Pass	
		Inner_1RB_Left	19.87	19.17	22.54	16.27	15.57	18.94	<=23	Pass	
	3690	Inner_1RB_Right	19.98	20.19	23.1	16.38	16.59	19.5	<=23	Pass	
		Edge_1RB_Left	20.99	17.97	22.75	17.39	14.37	19.15	<=23	Pass	
		Edge_1RB_Right	20.18	18.53	22.44	16.58	14.93	18.84	<=23	Pass	
		Outer_Full	16.73	16.28	19.52	13.13	12.68	15.92	<=23	Pass	
		Inner_Full	19.34	21.54	23.59	15.74	17.94	19.99	<=23	Pass	
		Inner_1RB_Left	19.86	21.77	23.93	16.26	18.17	20.33	<=23	Pass	
	CP-OFDM 64 QAM	3560.01	Inner_1RB_Right	22.36	21.08	24.78	18.76	17.48	21.18	<=23	Pass
			Edge_1RB_Left	20.69	19.53	23.16	17.09	15.93	19.56	<=23	Pass
			Edge_1RB_Right	20.82	20.37	23.61	17.22	16.77	20.01	<=23	Pass
			Outer_Full	18.22	16.61	20.5	14.62	13.01	16.9	<=23	Pass
			Inner_Full	20.62	19.87	23.27	17.02	16.27	19.67	<=23	Pass
			Inner_1RB_Left	20.54	19.83	23.21	16.94	16.23	19.61	<=23	Pass
3624.99		Inner_1RB_Right	19.79	20.17	22.99	16.19	16.57	19.39	<=23	Pass	
		Edge_1RB_Left	18.14	20.68	22.6	14.54	17.08	19	<=23	Pass	
		Edge_1RB_Right	18.82	18.65	21.75	15.22	15.05	18.15	<=23	Pass	
		Outer_Full	17.21	16.15	19.72	13.61	12.55	16.12	<=23	Pass	
		Inner_Full	20.05	19.8	22.94	16.45	16.2	19.34	<=23	Pass	
		Inner_1RB_Left	19.12	19.29	22.22	15.52	15.69	18.62	<=23	Pass	
3690		Inner_1RB_Right	19.07	19.63	22.37	15.47	16.03	18.77	<=23	Pass	
		Edge_1RB_Left	21.41	19.09	23.41	17.81	15.49	19.81	<=23	Pass	
		Edge_1RB_Right	19.95	20.57	23.28	16.35	16.97	19.68	<=23	Pass	
		Outer_Full	16.54	17.25	19.92	12.94	13.65	16.32	<=23	Pass	
		Inner_Full	19.68	19.8	22.75	16.08	16.2	19.15	<=23	Pass	
		Inner_1RB_Left	21.41	19.99	23.77	17.81	16.39	20.17	<=23	Pass	



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Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm/10MHz)			EIRP(dBm/10MHz)			Limit	Verdict	
			Ant1	Ant4	Sum	Ant1	Ant4	Sum			
CP-OFDM 256 QAM	3560.01	Inner_1RB_Right	20.29	20.98	23.66	16.69	17.38	20.06	<=23	Pass	
		Edge_1RB_Left	18.02	17.28	20.68	14.42	13.68	17.08	<=23	Pass	
		Edge_1RB_Right	16.17	17	19.62	12.57	13.4	16.02	<=23	Pass	
		Outer_Full	15.74	14.67	18.25	12.14	11.07	14.65	<=23	Pass	
		Inner_Full	17.65	17.36	20.52	14.05	13.76	16.92	<=23	Pass	
		Inner_1RB_Left	18.22	16.3	20.38	14.62	12.7	16.78	<=23	Pass	
	3624.99	Inner_1RB_Right	17.87	18.15	21.02	14.27	14.55	17.42	<=23	Pass	
		Edge_1RB_Left	17.23	19.5	21.52	13.63	15.9	17.92	<=23	Pass	
		Edge_1RB_Right	16.16	17.66	19.98	12.56	14.06	16.38	<=23	Pass	
		Outer_Full	14.97	14.97	17.98	11.37	11.37	14.38	<=23	Pass	
		Inner_Full	17.64	17.53	20.6	14.04	13.93	17	<=23	Pass	
		Inner_1RB_Left	18.17	17.27	20.75	14.57	13.67	17.15	<=23	Pass	
	3690	Inner_1RB_Right	18.31	16.42	20.48	14.71	12.82	16.88	<=23	Pass	
		Edge_1RB_Left	17.16	18.46	20.87	13.56	14.86	17.27	<=23	Pass	
		Edge_1RB_Right	18.21	17.83	21.03	14.61	14.23	17.43	<=23	Pass	
		Outer_Full	15.31	14.92	18.13	11.71	11.32	14.53	<=23	Pass	
		Inner_Full	15.66	18.04	20.02	12.06	14.44	16.42	<=23	Pass	
		Inner_1RB_Left	18.28	16.41	20.46	14.68	12.81	16.86	<=23	Pass	
			Inner_1RB_Right	18.54	16.11	20.5	14.94	12.51	16.9	<=23	Pass

Note1: Antenna Gain: Ant1: -3.6dBi; Ant4: -3.6dBi;

1.6 30k_MIMO_40MHz_NTNV_EIRP/10MHz

1.6.1 Test Result

5G NR n48 SCS=30kHz MIMO 40MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm/10MHz)			EIRP(dBm/10MHz)			Limit	Verdict
			Ant1	Ant4	Sum	Ant1	Ant4	Sum		
CP-OFDM QPSK	3570	Edge_1RB_Left	20.42	19.68	23.08	16.82	16.08	19.48	<=23	Pass
		Edge_1RB_Right	22.22	21.19	24.75	18.62	17.59	21.15	<=23	Pass
		Outer_Full	10.23	11.02	13.65	6.63	7.42	10.05	<=23	Pass
		Inner_Full	17.57	18.14	20.87	13.97	14.54	17.27	<=23	Pass
		Inner_1RB_Left	11.88	20.06	20.67	8.28	16.46	17.07	<=23	Pass
		Inner_1RB_Right	22.01	19.6	23.98	18.41	16	20.38	<=23	Pass
	3624.99	Edge_1RB_Left	20.89	18.65	22.92	17.29	15.05	19.32	<=23	Pass
		Edge_1RB_Right	21.21	20.05	23.68	17.61	16.45	20.08	<=23	Pass
		Outer_Full	14.65	14.43	17.55	11.05	10.83	13.95	<=23	Pass
		Inner_Full	17.62	18.39	21.03	14.02	14.79	17.43	<=23	Pass
		Inner_1RB_Left	21.74	21.27	24.52	18.14	17.67	20.92	<=23	Pass
		Inner_1RB_Right	19.42	20.37	22.93	15.82	16.77	19.33	<=23	Pass
	3679.98	Edge_1RB_Left	21.54	20.5	24.06	17.94	16.9	20.46	<=23	Pass
		Edge_1RB_Right	20.27	21.23	23.79	16.67	17.63	20.19	<=23	Pass
		Outer_Full	9.4	9.21	12.32	5.8	5.61	8.72	<=23	Pass
		Inner_Full	16.91	15.19	19.14	13.31	11.59	15.54	<=23	Pass
		Inner_1RB_Left	21.71	20.23	24.04	18.11	16.63	20.44	<=23	Pass
		Inner_1RB_Right	20.31	20.23	23.28	16.71	16.63	19.68	<=23	Pass



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CP-OFDM 16 QAM	3570	Edge_1RB_Left	20.36	20.5	23.44	16.76	16.9	19.84	<=23	Pass
		Edge_1RB_Right	20.34	21.43	23.93	16.74	17.83	20.33	<=23	Pass
		Outer_Full	13.96	14.34	17.16	10.36	10.74	13.56	<=23	Pass
		Inner_Full	17.47	18.56	21.06	13.87	14.96	17.46	<=23	Pass
		Inner_1RB_Left	20.18	19.94	23.07	16.58	16.34	19.47	<=23	Pass
	Inner_1RB_Right	18.64	20.96	22.96	15.04	17.36	19.36	<=23	Pass	
	3624.99	Edge_1RB_Left	21.1	21.81	24.48	17.5	18.21	20.88	<=23	Pass
		Edge_1RB_Right	20.99	20.55	23.79	17.39	16.95	20.19	<=23	Pass
		Outer_Full	14.88	14.43	17.67	11.28	10.83	14.07	<=23	Pass
		Inner_Full	17.64	16.71	20.21	14.04	13.11	16.61	<=23	Pass
		Inner_1RB_Left	16.21	22.23	23.2	12.61	18.63	19.6	<=23	Pass
	Inner_1RB_Right	19.47	19.65	22.57	15.87	16.05	18.97	<=23	Pass	
	3679.98	Edge_1RB_Left	21.72	21.78	24.76	18.12	18.18	21.16	<=23	Pass
		Edge_1RB_Right	21.38	19.44	23.53	17.78	15.84	19.93	<=23	Pass
		Outer_Full	16.59	16.04	19.33	12.99	12.44	15.73	<=23	Pass
Inner_Full		18.78	19.39	22.11	15.18	15.79	18.51	<=23	Pass	
Inner_1RB_Left		18.11	11.42	18.95	14.51	7.82	15.35	<=23	Pass	
Inner_1RB_Right	22.88	19.94	24.66	19.28	16.34	21.06	<=23	Pass		
CP-OFDM 64 QAM	3570	Edge_1RB_Left	20.35	19.42	22.92	16.75	15.82	19.32	<=23	Pass
		Edge_1RB_Right	21.17	19.6	23.47	17.57	16	19.87	<=23	Pass
		Outer_Full	14.49	14.17	17.34	10.89	10.57	13.74	<=23	Pass
		Inner_Full	15.48	14.29	17.94	11.88	10.69	14.34	<=23	Pass
		Inner_1RB_Left	21.64	18.6	23.39	18.04	15	19.79	<=23	Pass
	Inner_1RB_Right	19.79	19.61	22.71	16.19	16.01	19.11	<=23	Pass	
	3624.99	Edge_1RB_Left	20.18	17.85	22.18	16.58	14.25	18.58	<=23	Pass
		Edge_1RB_Right	20.46	20.67	23.58	16.86	17.07	19.98	<=23	Pass
		Outer_Full	14.66	14	17.35	11.06	10.4	13.75	<=23	Pass
		Inner_Full	16.69	16.79	19.75	13.09	13.19	16.15	<=23	Pass
		Inner_1RB_Left	20.92	20.56	23.75	17.32	16.96	20.15	<=23	Pass
	Inner_1RB_Right	22.15	21.36	24.78	18.55	17.76	21.18	<=23	Pass	
	3679.98	Edge_1RB_Left	20.18	20.61	23.41	16.58	17.01	19.81	<=23	Pass
		Edge_1RB_Right	19.48	21.1	23.38	15.88	17.5	19.78	<=23	Pass
		Outer_Full	9.6	14.63	15.82	6	11.03	12.22	<=23	Pass
Inner_Full		13.01	18.02	19.21	9.41	14.42	15.61	<=23	Pass	
Inner_1RB_Left		20.5	20.14	23.33	16.9	16.54	19.73	<=23	Pass	
Inner_1RB_Right	22.24	20.57	24.5	18.64	16.97	20.9	<=23	Pass		
CP-OFDM 256 QAM	3570	Edge_1RB_Left	18.98	16.82	21.04	15.38	13.22	17.44	<=23	Pass
		Edge_1RB_Right	17.37	19.41	21.52	13.77	15.81	17.92	<=23	Pass
		Outer_Full	12.33	11.88	15.12	8.73	8.28	11.52	<=23	Pass
		Inner_Full	14.05	13.15	16.63	10.45	9.55	13.03	<=23	Pass
		Inner_1RB_Left	17.72	18.79	21.3	14.12	15.19	17.7	<=23	Pass
	Inner_1RB_Right	17.18	18.14	20.7	13.58	14.54	17.1	<=23	Pass	
	3624.99	Edge_1RB_Left	19.11	17.64	21.45	15.51	14.04	17.85	<=23	Pass
		Edge_1RB_Right	19.06	18.33	21.72	15.46	14.73	18.12	<=23	Pass
		Outer_Full	12.25	11.44	14.87	8.65	7.84	11.27	<=23	Pass
		Inner_Full	14.37	15.1	17.76	10.77	11.5	14.16	<=23	Pass
Inner_1RB_Left		18.56	16.85	20.8	14.96	13.25	17.2	<=23	Pass	
Inner_1RB_Right	17.79	17.69	20.75	14.19	14.09	17.15	<=23	Pass		



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3679.98	Edge_1RB_Left	19.63	17.3	21.63	16.03	13.7	18.03	<=23	Pass
	Edge_1RB_Right	17.8	18.44	21.14	14.2	14.84	17.54	<=23	Pass
	Outer_Full	11.89	11.34	14.63	8.29	7.74	11.03	<=23	Pass
	Inner_Full	12.39	13.3	15.88	8.79	9.7	12.28	<=23	Pass
	Inner_1RB_Left	17.53	17.24	20.4	13.93	13.64	16.8	<=23	Pass
	Inner_1RB_Right	18.02	18.39	21.22	14.42	14.79	17.62	<=23	Pass

Note1: Antenna Gain: Ant1: -3.6dBi; Ant4: -3.6dBi;

2. Frequency Stability

2.1 30k_SISO_10MHz

2.1.1 Test Result

5G NR n48 SCS=30kHz SISO 10MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3624.99	Outer_Full	20	LV	-3.20	-0.0009	/	Pass
				HV	9.40	0.0026	/	Pass
			-30	NV	9.60	0.0026	/	Pass
				NV	-7.10	-0.0020	/	Pass
			-10	NV	-9.80	-0.0027	/	Pass
				0	NV	-4.00	-0.0011	/
			10	NV	2.90	0.0008	/	Pass
				20	NV	5.60	0.0015	/
			30	NV	-8.00	-0.0022	/	Pass
				40	NV	-9.20	-0.0025	/
50	NV	2.20	0.0006	/	Pass			
	20	LV	6.10	0.0017	/	Pass		
-30		HV	-5.70	-0.0016	/	Pass		
	-20	NV	-5.90	-0.0016	/	Pass		
-10		NV	4.50	0.0012	/	Pass		
	0	NV	2.00	0.0006	/	Pass		
10		NV	4.30	0.0012	/	Pass		
	20	NV	-7.10	-0.0020	/	Pass		
30		NV	-7.40	-0.0020	/	Pass		
	40	NV	-4.40	-0.0012	/	Pass		
50		NV	-13.50	-0.0037	/	Pass		
	20	LV	-13.40	-0.0037	/	Pass		
-30		HV	-6.60	-0.0018	/	Pass		
	-20	NV	-6.80	-0.0019	/	Pass		
-10		NV	-7.20	-0.0020	/	Pass		
	0	NV	9.20	0.0025	/	Pass		
20		LV	-13.40	-0.0037	/	Pass		
	-30	HV	-6.60	-0.0018	/	Pass		
-20		NV	-6.80	-0.0019	/	Pass		
	-10	NV	-7.20	-0.0020	/	Pass		
0		NV	9.20	0.0025	/	Pass		



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			10	NV	-6.60	-0.0018	/	Pass			
			20	NV	4.30	0.0012	/	Pass			
			30	NV	4.50	0.0012	/	Pass			
			40	NV	12.00	0.0033	/	Pass			
			50	NV	-7.50	-0.0021	/	Pass			
DFT-s-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-3.00	-0.0008	/	Pass			
				HV	-16.40	-0.0045	/	Pass			
						-30	NV	-6.00	-0.0017	/	Pass
						-20	NV	-7.20	-0.0020	/	Pass
						-10	NV	-3.40	-0.0009	/	Pass
						0	NV	4.00	0.0011	/	Pass
						10	NV	12.50	0.0034	/	Pass
						20	NV	8.30	0.0023	/	Pass
						30	NV	6.70	0.0018	/	Pass
						40	NV	8.80	0.0024	/	Pass
						50	NV	-5.00	-0.0014	/	Pass
			DFT-s-OFDM 256 QAM	3624.99	Outer_Full	20	LV	1.80	0.0005	/	Pass
HV	-5.50	-0.0015					/	Pass			
						-30	NV	3.60	0.0010	/	Pass
						-20	NV	5.20	0.0014	/	Pass
						-10	NV	-14.70	-0.0041	/	Pass
						0	NV	-11.70	-0.0032	/	Pass
						10	NV	-9.20	-0.0025	/	Pass
						20	NV	-4.00	-0.0011	/	Pass
						30	NV	8.10	0.0022	/	Pass
						40	NV	11.00	0.0030	/	Pass
						50	NV	7.80	0.0022	/	Pass
CP-OFDM QPSK	3624.99	Outer_Full				20	LV	6.30	0.0017	/	Pass
			HV	5.20	0.0014		/	Pass			
						-30	NV	-6.00	-0.0017	/	Pass
						-20	NV	-4.70	-0.0013	/	Pass
						-10	NV	13.80	0.0038	/	Pass
						0	NV	-4.60	-0.0013	/	Pass
						10	NV	12.10	0.0033	/	Pass
						20	NV	-2.80	-0.0008	/	Pass
						30	NV	-2.50	-0.0007	/	Pass
						40	NV	6.50	0.0018	/	Pass
						50	NV	-5.40	-0.0015	/	Pass
			CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-10.30	-0.0028	/	Pass
HV	4.70	0.0013					/	Pass			
						-30	NV	6.10	0.0017	/	Pass
						-20	NV	-11.00	-0.0030	/	Pass
						-10	NV	7.20	0.0020	/	Pass
						0	NV	-5.00	-0.0014	/	Pass
						10	NV	-14.50	-0.0040	/	Pass
						20	NV	4.70	0.0013	/	Pass
						30	NV	-5.70	-0.0016	/	Pass
						40	NV	15.40	0.0042	/	Pass



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CP-OFDM 64 QAM	3624.99	Outer_Full	50	NV	-7.40	-0.0020	/	Pass
			20	LV	-15.10	-0.0042	/	Pass
				HV	3.30	0.0009	/	Pass
			-30	NV	11.80	0.0033	/	Pass
			-20	NV	5.90	0.0016	/	Pass
			-10	NV	3.90	0.0011	/	Pass
			0	NV	4.50	0.0012	/	Pass
			10	NV	-8.60	-0.0024	/	Pass
			20	NV	-6.40	-0.0018	/	Pass
			30	NV	11.10	0.0031	/	Pass
			40	NV	12.10	0.0033	/	Pass
			50	NV	-2.20	-0.0006	/	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	8.60	0.0024	/	Pass
				HV	5.50	0.0015	/	Pass
			-30	NV	-5.30	-0.0015	/	Pass
			-20	NV	4.80	0.0013	/	Pass
			-10	NV	5.60	0.0015	/	Pass
			0	NV	10.50	0.0029	/	Pass
			10	NV	14.90	0.0041	/	Pass
			20	NV	-4.00	-0.0011	/	Pass
			30	NV	22.00	0.0061	/	Pass
			40	NV	11.20	0.0031	/	Pass
			50	NV	-5.90	-0.0016	/	Pass

2.2 30k_SISO_20MHz

2.2.1 Test Result

5G NR n48 SCS=30kHz SISO 20MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3624.99	Outer_Full	20	LV	-20.80	-0.0057	/	Pass
				HV	-4.60	-0.0013	/	Pass
			-30	NV	-7.20	-0.0020	/	Pass
			-20	NV	-13.60	-0.0038	/	Pass
			-10	NV	-11.90	-0.0033	/	Pass
			0	NV	-7.90	-0.0022	/	Pass
			10	NV	-5.70	-0.0016	/	Pass
			20	NV	-18.20	-0.0050	/	Pass
			30	NV	-14.10	-0.0039	/	Pass
			40	NV	-13.80	-0.0038	/	Pass
DFT-s-OFDM QPSK	3624.99	Outer_Full	20	LV	-12.00	-0.0033	/	Pass
				HV	-7.00	-0.0019	/	Pass
			-30	NV	-12.50	-0.0034	/	Pass
			-20	NV	2.10	0.0006	/	Pass



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			-10	NV	7.30	0.0020	/	Pass			
			0	NV	-20.10	-0.0055	/	Pass			
			10	NV	-12.90	-0.0036	/	Pass			
			20	NV	-12.20	-0.0034	/	Pass			
			30	NV	-5.10	-0.0014	/	Pass			
			40	NV	-4.10	-0.0011	/	Pass			
			50	NV	-28.80	-0.0079	/	Pass			
DFT-s-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-4.50	-0.0012	/	Pass			
				HV	-8.60	-0.0024	/	Pass			
						-30	NV	-14.80	-0.0041	/	Pass
						-20	NV	-6.20	-0.0017	/	Pass
						-10	NV	-10.50	-0.0029	/	Pass
						0	NV	-15.00	-0.0041	/	Pass
						10	NV	-11.20	-0.0031	/	Pass
						20	NV	-12.30	-0.0034	/	Pass
						30	NV	-8.90	-0.0025	/	Pass
						40	NV	-11.10	-0.0031	/	Pass
			50	NV	-11.00	-0.0030	/	Pass			
DFT-s-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-14.20	-0.0039	/	Pass			
				HV	-20.20	-0.0056	/	Pass			
						-30	NV	-10.70	-0.0030	/	Pass
						-20	NV	-20.40	-0.0056	/	Pass
						-10	NV	-10.00	-0.0028	/	Pass
						0	NV	-3.30	-0.0009	/	Pass
						10	NV	-12.40	-0.0034	/	Pass
						20	NV	-12.20	-0.0034	/	Pass
						30	NV	-10.50	-0.0029	/	Pass
						40	NV	-18.40	-0.0051	/	Pass
			50	NV	-17.80	-0.0049	/	Pass			
DFT-s-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-11.10	-0.0031	/	Pass			
				HV	-24.90	-0.0069	/	Pass			
						-30	NV	-7.00	-0.0019	/	Pass
						-20	NV	-13.70	-0.0038	/	Pass
						-10	NV	-14.70	-0.0041	/	Pass
						0	NV	-20.10	-0.0055	/	Pass
						10	NV	-11.50	-0.0032	/	Pass
						20	NV	-17.80	-0.0049	/	Pass
						30	NV	-17.00	-0.0047	/	Pass
						40	NV	4.60	0.0013	/	Pass
			50	NV	-7.10	-0.0020	/	Pass			
CP-OFDM QPSK	3624.99	Outer_Full	20	LV	-8.70	-0.0024	/	Pass			
				HV	-9.90	-0.0027	/	Pass			
						-30	NV	-13.30	-0.0037	/	Pass
						-20	NV	-5.20	-0.0014	/	Pass
						-10	NV	-22.40	-0.0062	/	Pass
						0	NV	-13.30	-0.0037	/	Pass
						10	NV	-19.70	-0.0054	/	Pass
						20	NV	-5.20	-0.0014	/	Pass



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			30	NV	-18.00	-0.0050	/	Pass
			40	NV	-13.70	-0.0038	/	Pass
			50	NV	-9.20	-0.0025	/	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-11.60	-0.0032	/	Pass
				HV	-14.70	-0.0041	/	Pass
			-30	NV	-7.30	-0.0020	/	Pass
			-20	NV	5.40	0.0015	/	Pass
			-10	NV	-15.50	-0.0043	/	Pass
			0	NV	-6.10	-0.0017	/	Pass
			10	NV	2.50	0.0007	/	Pass
			20	NV	-12.50	-0.0034	/	Pass
			30	NV	-6.80	-0.0019	/	Pass
			40	NV	-9.50	-0.0026	/	Pass
			50	NV	-12.10	-0.0033	/	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-15.40	-0.0042	/	Pass
				HV	-17.50	-0.0048	/	Pass
			-30	NV	-8.00	-0.0022	/	Pass
			-20	NV	-7.00	-0.0019	/	Pass
			-10	NV	-19.60	-0.0054	/	Pass
			0	NV	-11.00	-0.0030	/	Pass
			10	NV	-16.00	-0.0044	/	Pass
			20	NV	-10.40	-0.0029	/	Pass
			30	NV	-6.10	-0.0017	/	Pass
			40	NV	-6.90	-0.0019	/	Pass
			50	NV	-10.40	-0.0029	/	Pass
CP-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-11.70	-0.0032	/	Pass
				HV	-5.00	-0.0014	/	Pass
			-30	NV	-9.40	-0.0026	/	Pass
			-20	NV	-15.60	-0.0043	/	Pass
			-10	NV	-16.00	-0.0044	/	Pass
			0	NV	-26.30	-0.0073	/	Pass
			10	NV	-14.00	-0.0039	/	Pass
			20	NV	-12.40	-0.0034	/	Pass
			30	NV	8.20	0.0023	/	Pass
			40	NV	3.30	0.0009	/	Pass
			50	NV	-15.90	-0.0044	/	Pass

2.3 30k_SISO_40MHz

2.3.1 Test Result

5G NR n48 SCS=30kHz SISO 40MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	3624.99	Outer_Full	20	LV	6.40	0.0018	/	Pass
				HV	-6.30	-0.0017	/	Pass



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			-30	NV	-5.00	-0.0014	/	Pass
			-20	NV	-5.70	-0.0016	/	Pass
			-10	NV	-15.30	-0.0042	/	Pass
			0	NV	7.50	0.0021	/	Pass
			10	NV	-15.90	-0.0044	/	Pass
			20	NV	0.80	0.0002	/	Pass
			30	NV	-8.10	-0.0022	/	Pass
			40	NV	3.20	0.0009	/	Pass
			50	NV	-15.10	-0.0042	/	Pass
DFT-s-OFDM QPSK	3624.99	Outer_Full	20	LV	-8.10	-0.0022	/	Pass
				HV	-12.50	-0.0034	/	Pass
			-30	NV	-17.30	-0.0048	/	Pass
			-20	NV	-9.70	-0.0027	/	Pass
			-10	NV	2.90	0.0008	/	Pass
			0	NV	-16.30	-0.0045	/	Pass
			10	NV	-16.90	-0.0047	/	Pass
			20	NV	8.10	0.0022	/	Pass
			30	NV	-5.80	-0.0016	/	Pass
			40	NV	-3.80	-0.0010	/	Pass
50	NV	-9.40	-0.0026	/	Pass			
DFT-s-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-6.30	-0.0017	/	Pass
				HV	12.60	0.0035	/	Pass
			-30	NV	-5.80	-0.0016	/	Pass
			-20	NV	-17.40	-0.0048	/	Pass
			-10	NV	-12.90	-0.0036	/	Pass
			0	NV	-13.30	-0.0037	/	Pass
			10	NV	-4.10	-0.0011	/	Pass
			20	NV	-20.80	-0.0057	/	Pass
			30	NV	7.00	0.0019	/	Pass
			40	NV	-4.50	-0.0012	/	Pass
50	NV	-4.60	-0.0013	/	Pass			
DFT-s-OFDM 64 QAM	3624.99	Outer_Full	20	LV	4.90	0.0014	/	Pass
				HV	-6.10	-0.0017	/	Pass
			-30	NV	2.90	0.0008	/	Pass
			-20	NV	4.90	0.0014	/	Pass
			-10	NV	-5.60	-0.0015	/	Pass
			0	NV	-4.20	-0.0012	/	Pass
			10	NV	9.10	0.0025	/	Pass
			20	NV	-20.90	-0.0058	/	Pass
			30	NV	2.80	0.0008	/	Pass
			40	NV	-5.50	-0.0015	/	Pass
50	NV	3.60	0.0010	/	Pass			
DFT-s-OFDM 256 QAM	3624.99	Outer_Full	20	LV	-14.10	-0.0039	/	Pass
				HV	-9.80	-0.0027	/	Pass
			-30	NV	-17.10	-0.0047	/	Pass
			-20	NV	-10.50	-0.0029	/	Pass
			-10	NV	-8.30	-0.0023	/	Pass
0	NV	-21.90	-0.0060	/	Pass			



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			10	NV	-7.80	-0.0022	/	Pass
			20	NV	-7.10	-0.0020	/	Pass
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CP-OFDM QPSK	3624.99	Outer_Full	20	LV	3.00	0.0008	/	Pass
				HV	-2.20	-0.0006	/	Pass
			-30	NV	-4.50	-0.0012	/	Pass
			-20	NV	1.00	0.0003	/	Pass
			-10	NV	4.40	0.0012	/	Pass
			0	NV	1.20	0.0003	/	Pass
			10	NV	-5.90	-0.0016	/	Pass
			20	NV	5.30	0.0015	/	Pass
			30	NV	3.60	0.0010	/	Pass
			40	NV	-15.10	-0.0042	/	Pass
			50	NV	-4.60	-0.0013	/	Pass
CP-OFDM 16 QAM	3624.99	Outer_Full	20	LV	-7.70	-0.0021	/	Pass
				HV	-6.70	-0.0018	/	Pass
			-30	NV	-6.20	-0.0017	/	Pass
			-20	NV	-19.00	-0.0052	/	Pass
			-10	NV	-13.30	-0.0037	/	Pass
			0	NV	-11.50	-0.0032	/	Pass
			10	NV	-3.70	-0.0010	/	Pass
			20	NV	-8.60	-0.0024	/	Pass
			30	NV	-11.70	-0.0032	/	Pass
			40	NV	-9.40	-0.0026	/	Pass
			50	NV	-8.70	-0.0024	/	Pass
CP-OFDM 64 QAM	3624.99	Outer_Full	20	LV	-11.60	-0.0032	/	Pass
				HV	-13.30	-0.0037	/	Pass
			-30	NV	-1.20	-0.0003	/	Pass
			-20	NV	5.70	0.0016	/	Pass
			-10	NV	-15.30	-0.0042	/	Pass
			0	NV	-5.40	-0.0015	/	Pass
			10	NV	-4.80	-0.0013	/	Pass
			20	NV	-19.80	-0.0055	/	Pass
			30	NV	-9.60	-0.0026	/	Pass
			40	NV	-3.50	-0.0010	/	Pass
			50	NV	12.40	0.0034	/	Pass
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				HV	-6.10	-0.0017	/	Pass
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			-20	NV	-11.30	-0.0031	/	Pass
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			0	NV	-11.30	-0.0031	/	Pass
			10	NV	-10.60	-0.0029	/	Pass
			20	NV	11.50	0.0032	/	Pass
			30	NV	14.80	0.0041	/	Pass
			40	NV	-12.00	-0.0033	/	Pass



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			50	NV	-5.90	-0.0016	/	Pass
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3. 99% & 26dB Bandwidth

3.1 30k_SISO_10MHz_NTNV

3.1.1 Test Result

5G NR n48 SCS=30kHz SISO 10MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3555	Outer_Full	8.67	9.79	/	Pass
	3624.99	Outer_Full	8.61	9.63	/	Pass
	3694.98	Outer_Full	8.62	9.69	/	Pass
DFT-s-OFDM QPSK	3555	Outer_Full	8.69	9.77	/	Pass
	3624.99	Outer_Full	8.60	9.54	/	Pass
	3694.98	Outer_Full	8.77	9.78	/	Pass
DFT-s-OFDM 16 QAM	3555	Outer_Full	8.77	9.89	/	Pass
	3624.99	Outer_Full	8.58	9.60	/	Pass
	3694.98	Outer_Full	8.72	9.55	/	Pass
DFT-s-OFDM 64 QAM	3555	Outer_Full	8.71	9.92	/	Pass
	3624.99	Outer_Full	8.65	9.67	/	Pass
	3694.98	Outer_Full	8.66	9.69	/	Pass
DFT-s-OFDM 256 QAM	3555	Outer_Full	8.69	9.74	/	Pass
	3624.99	Outer_Full	8.64	9.74	/	Pass
	3694.98	Outer_Full	8.67	9.27	/	Pass
CP-OFDM QPSK	3555	Outer_Full	8.70	9.76	/	Pass
	3624.99	Outer_Full	8.65	9.27	/	Pass
	3694.98	Outer_Full	8.65	9.68	/	Pass
CP-OFDM 16 QAM	3555	Outer_Full	8.71	9.61	/	Pass
	3624.99	Outer_Full	8.73	9.35	/	Pass
	3694.98	Outer_Full	8.72	9.46	/	Pass
CP-OFDM 64 QAM	3555	Outer_Full	8.72	9.82	/	Pass
	3624.99	Outer_Full	8.71	9.51	/	Pass
	3694.98	Outer_Full	8.68	9.51	/	Pass
CP-OFDM 256 QAM	3555	Outer_Full	8.67	9.78	/	Pass
	3624.99	Outer_Full	8.71	9.54	/	Pass
	3694.98	Outer_Full	8.63	9.26	/	Pass



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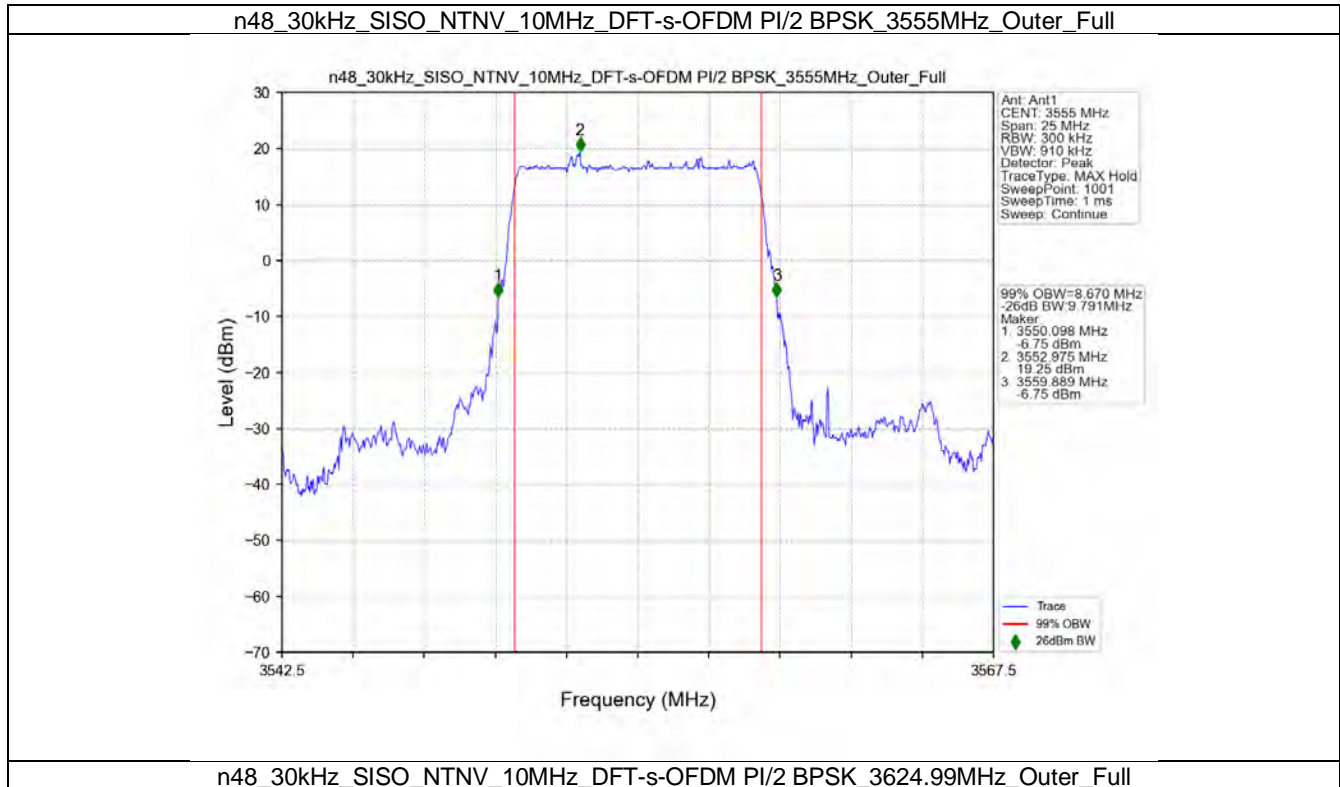
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3.1.2 Test Graph



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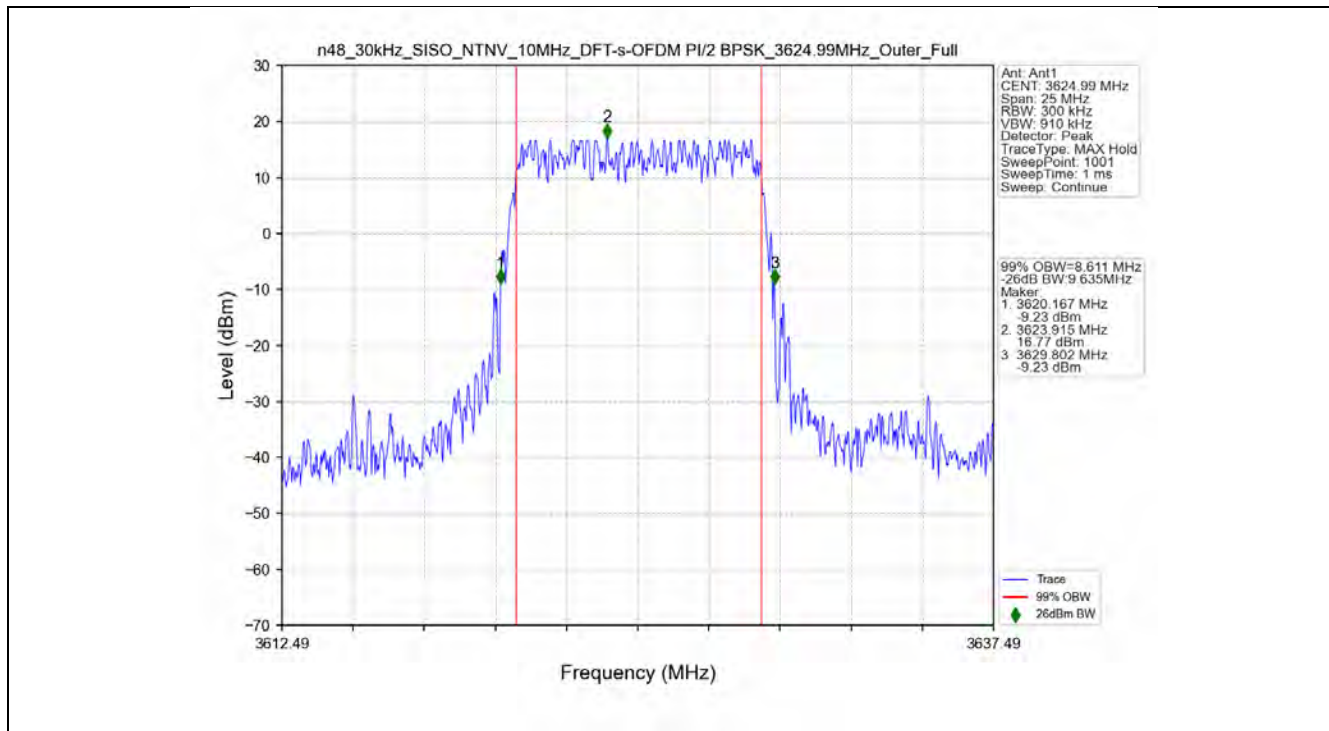
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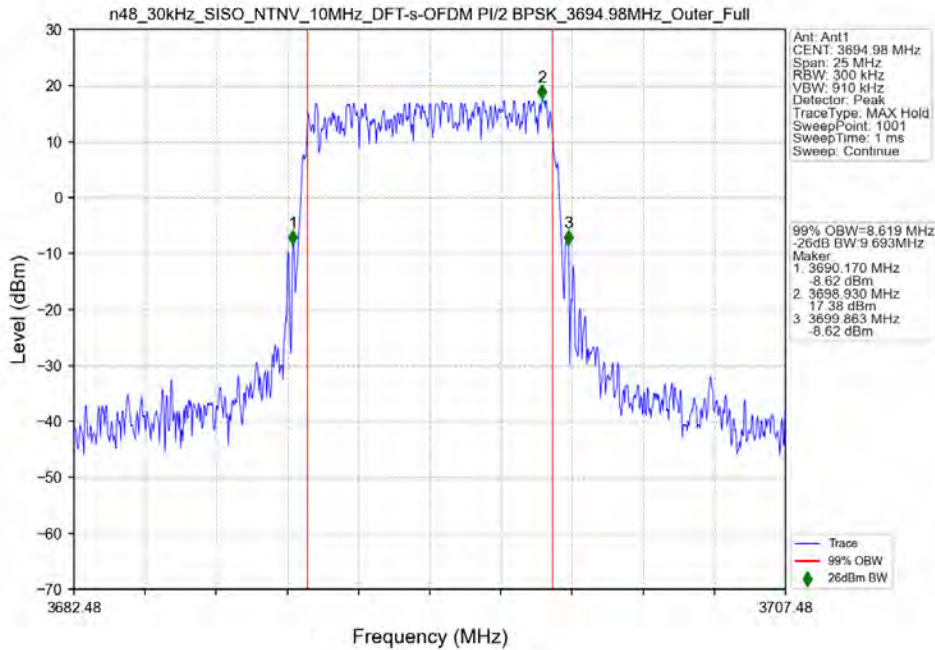
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3694.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3555MHz_Outer_Full



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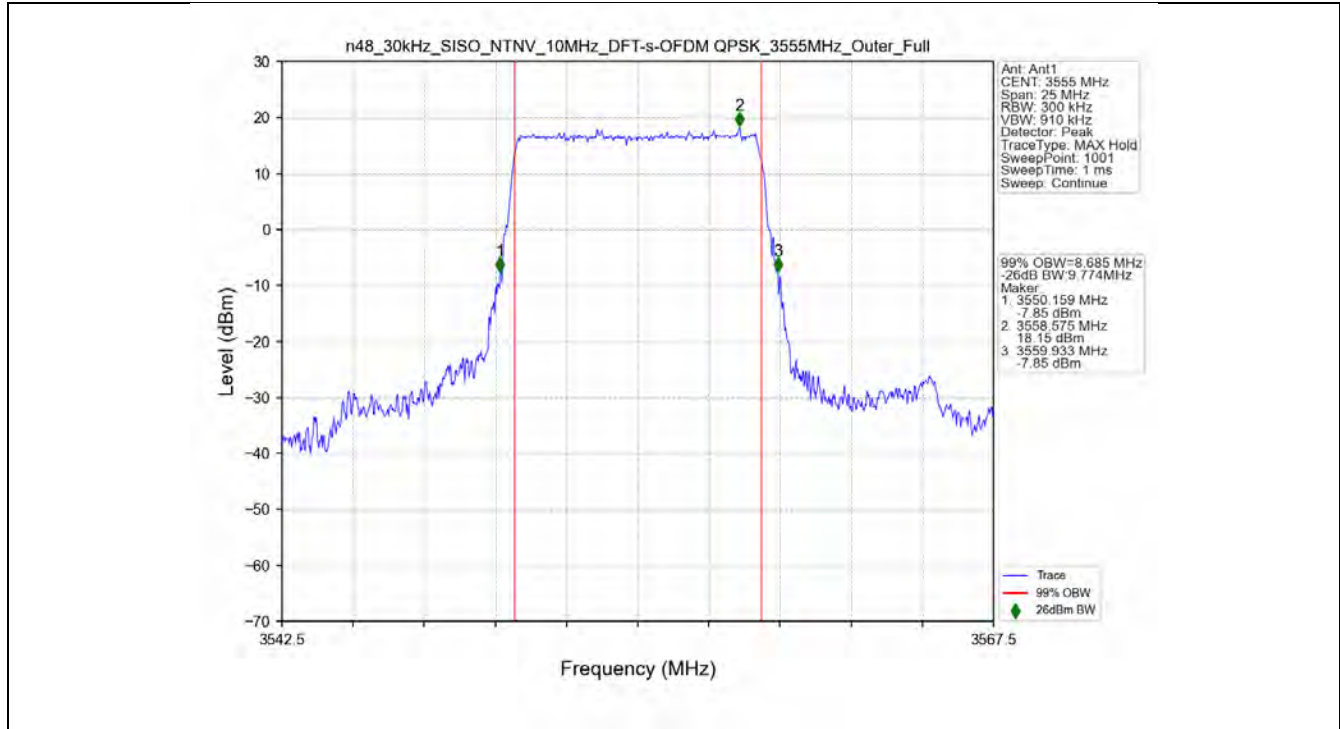


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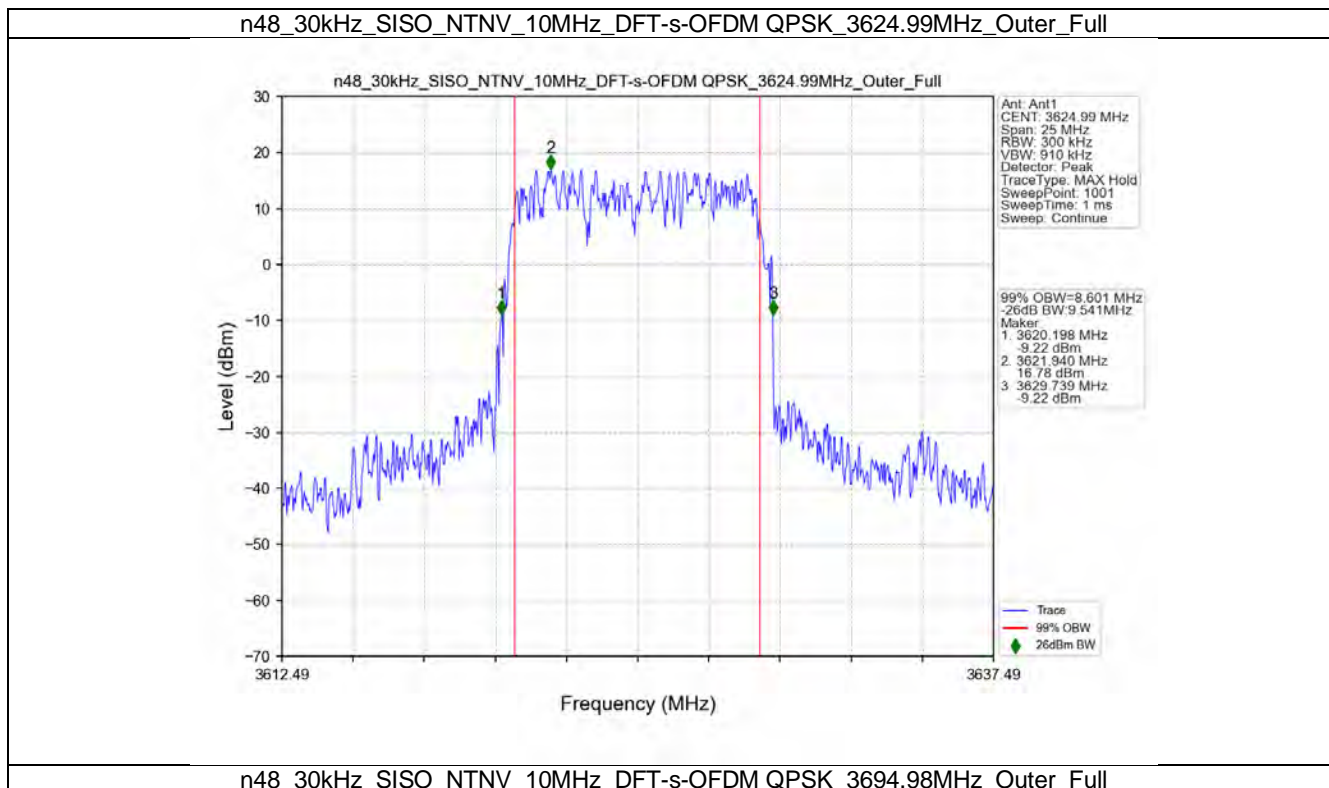
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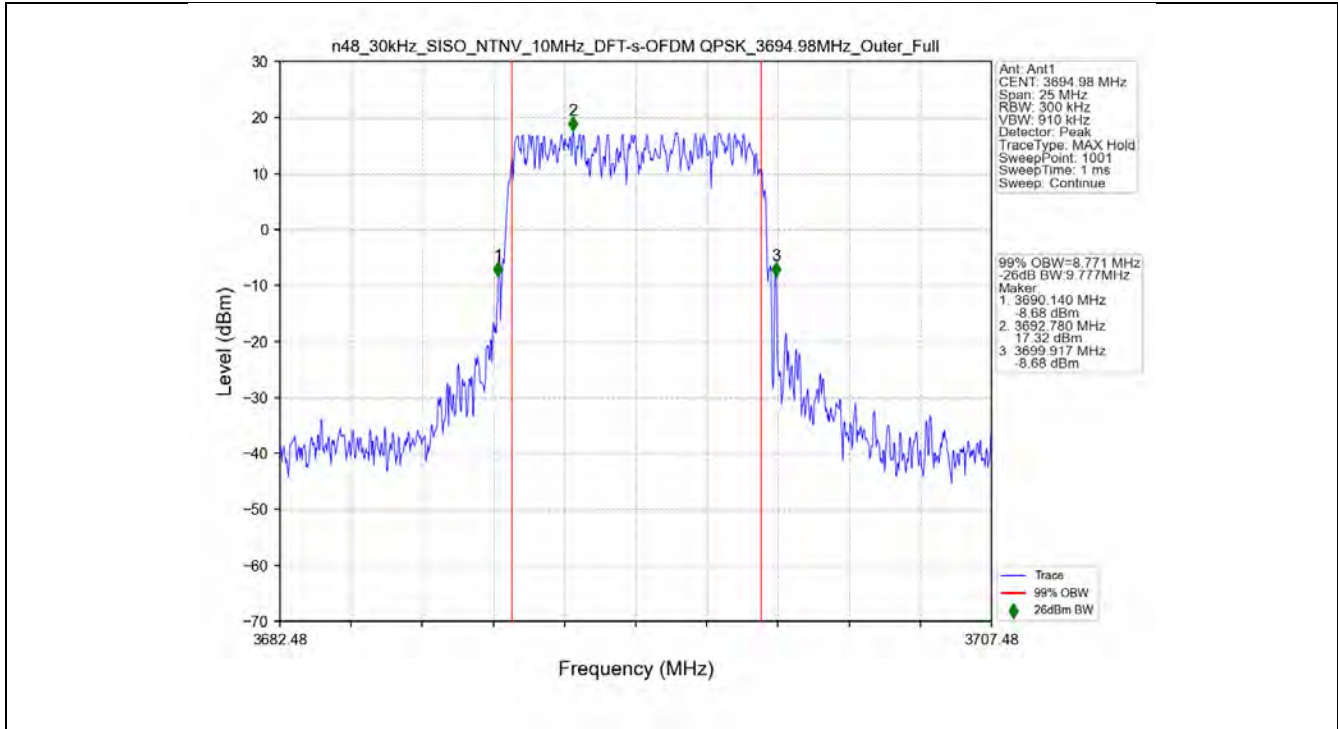


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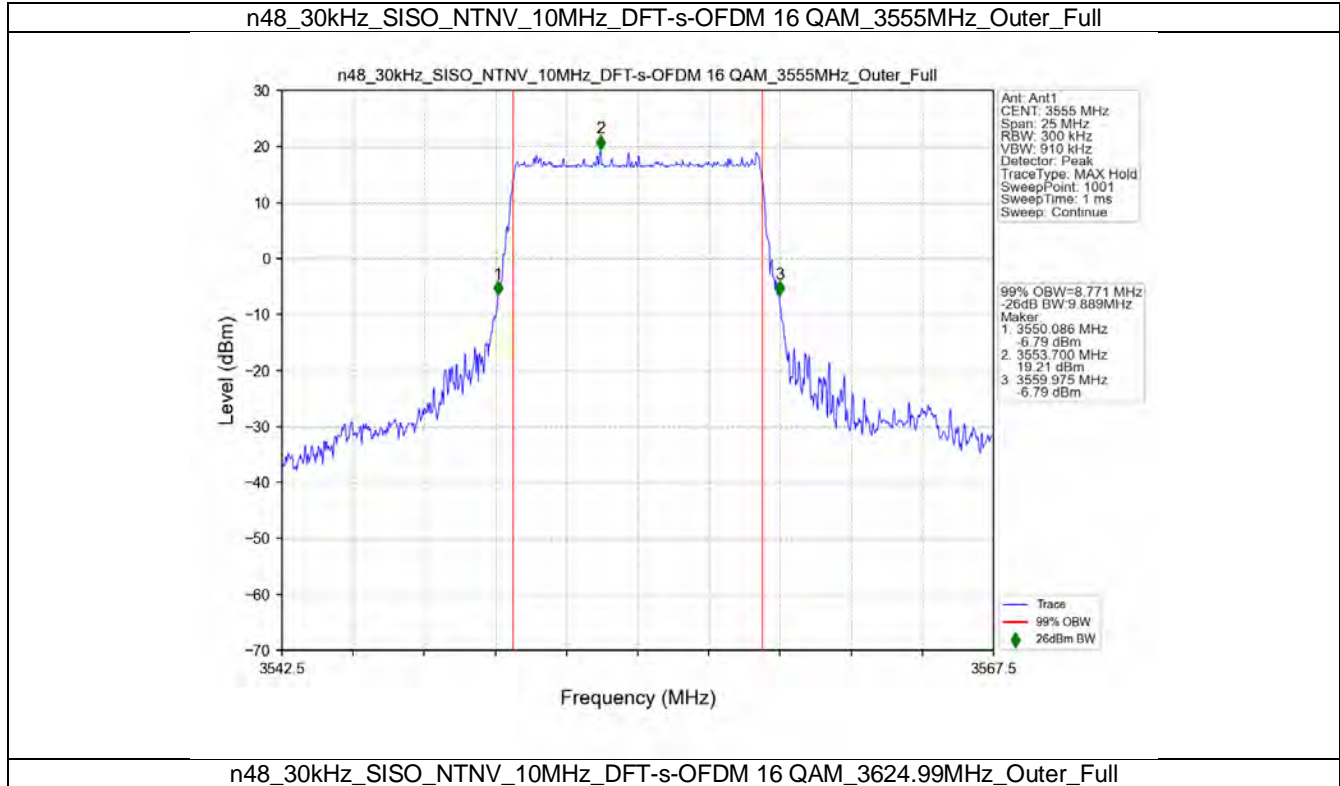


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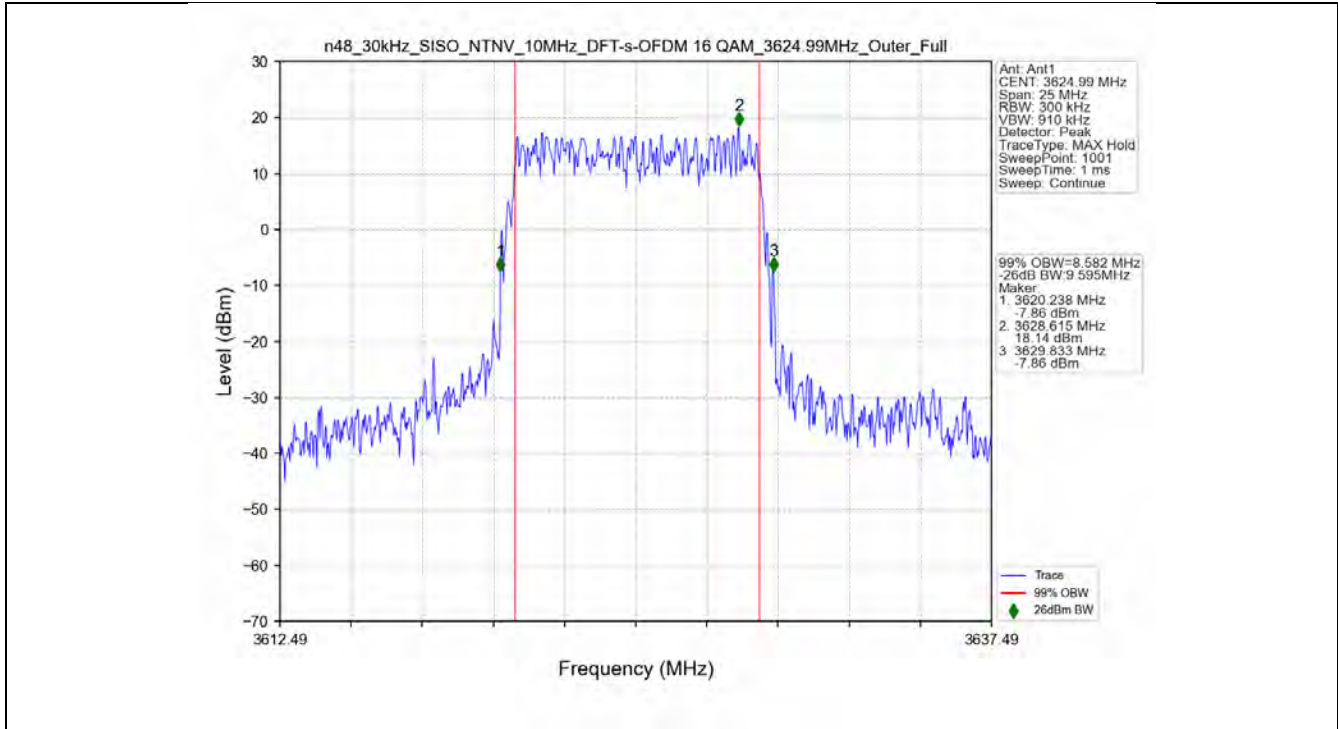


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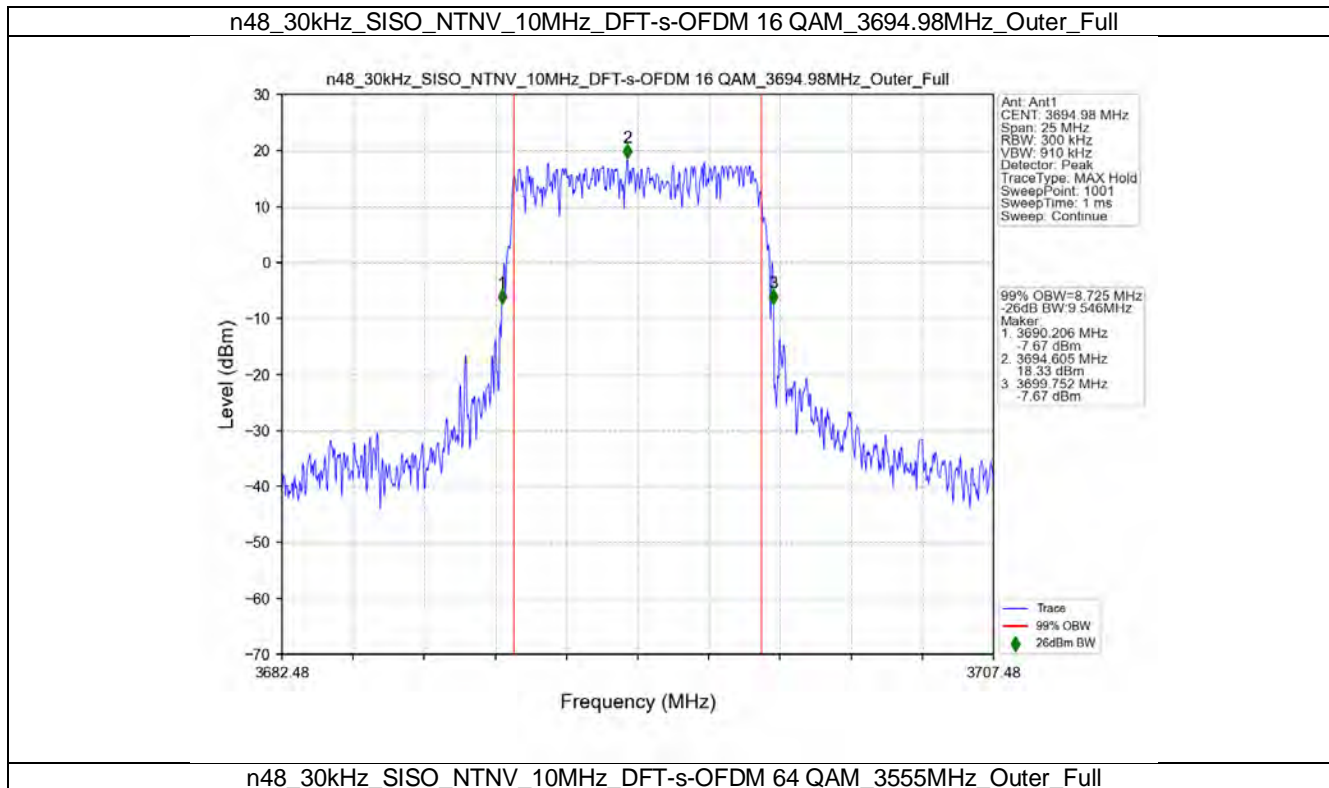
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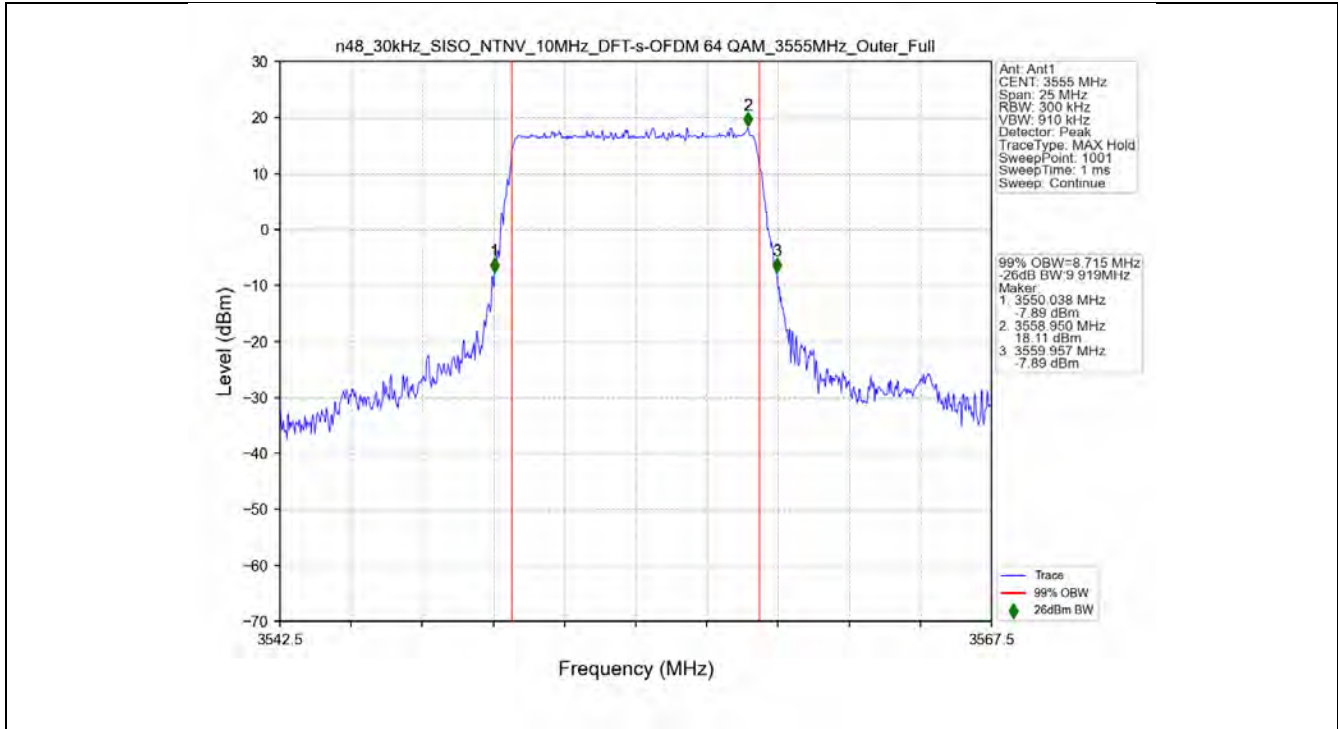


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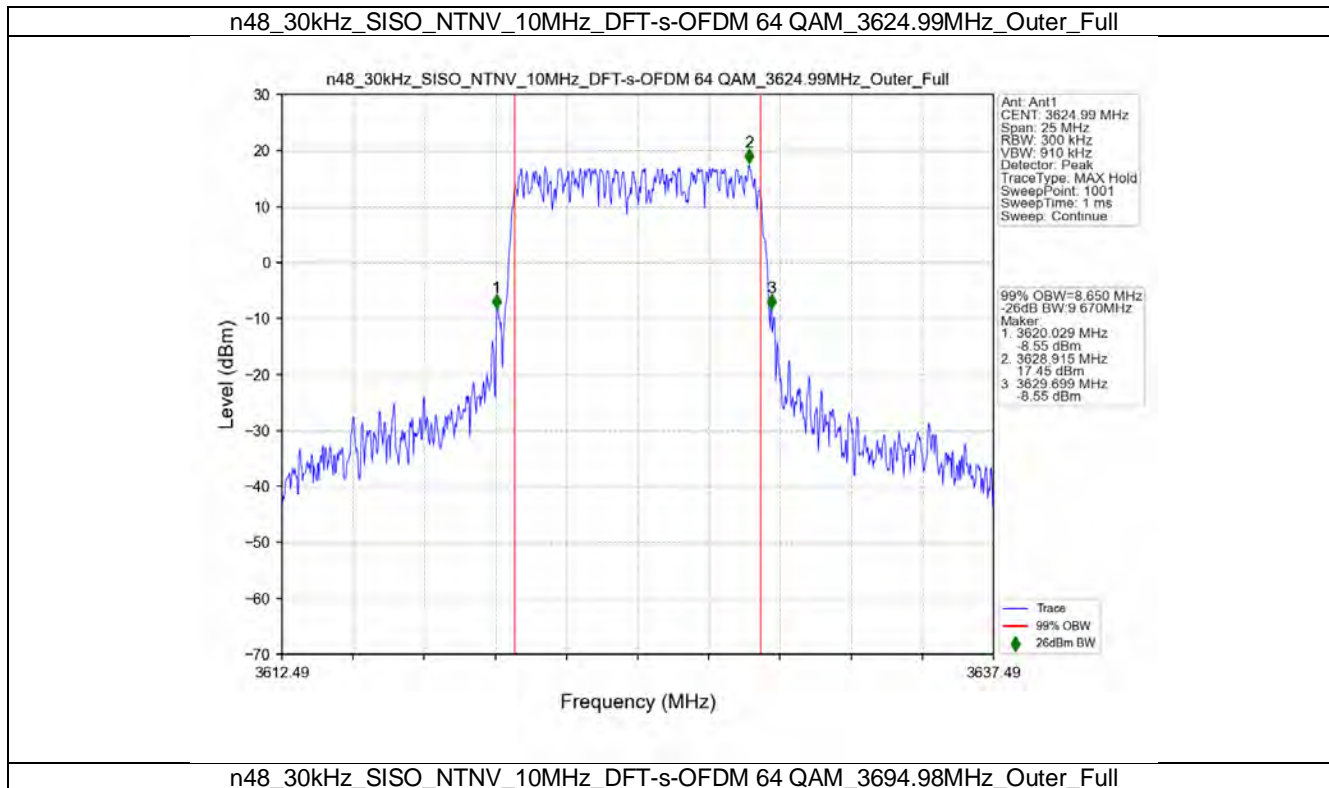
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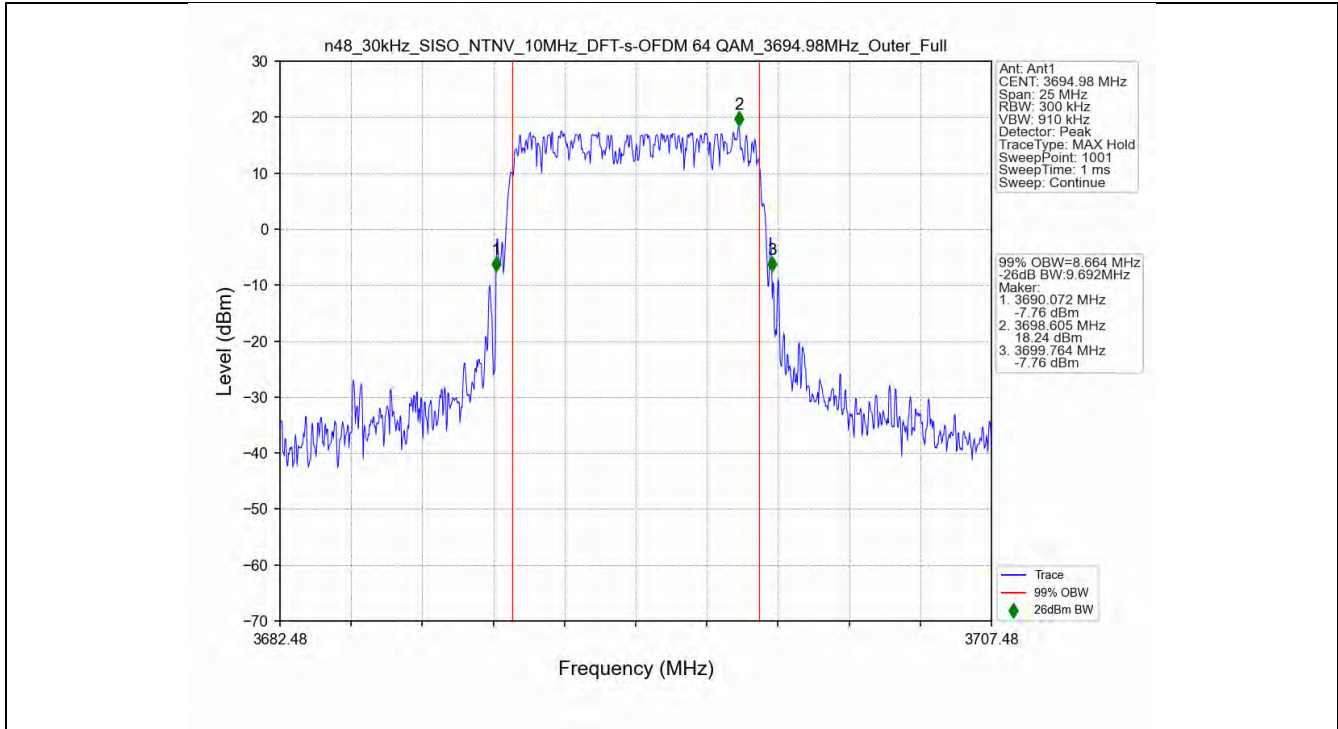


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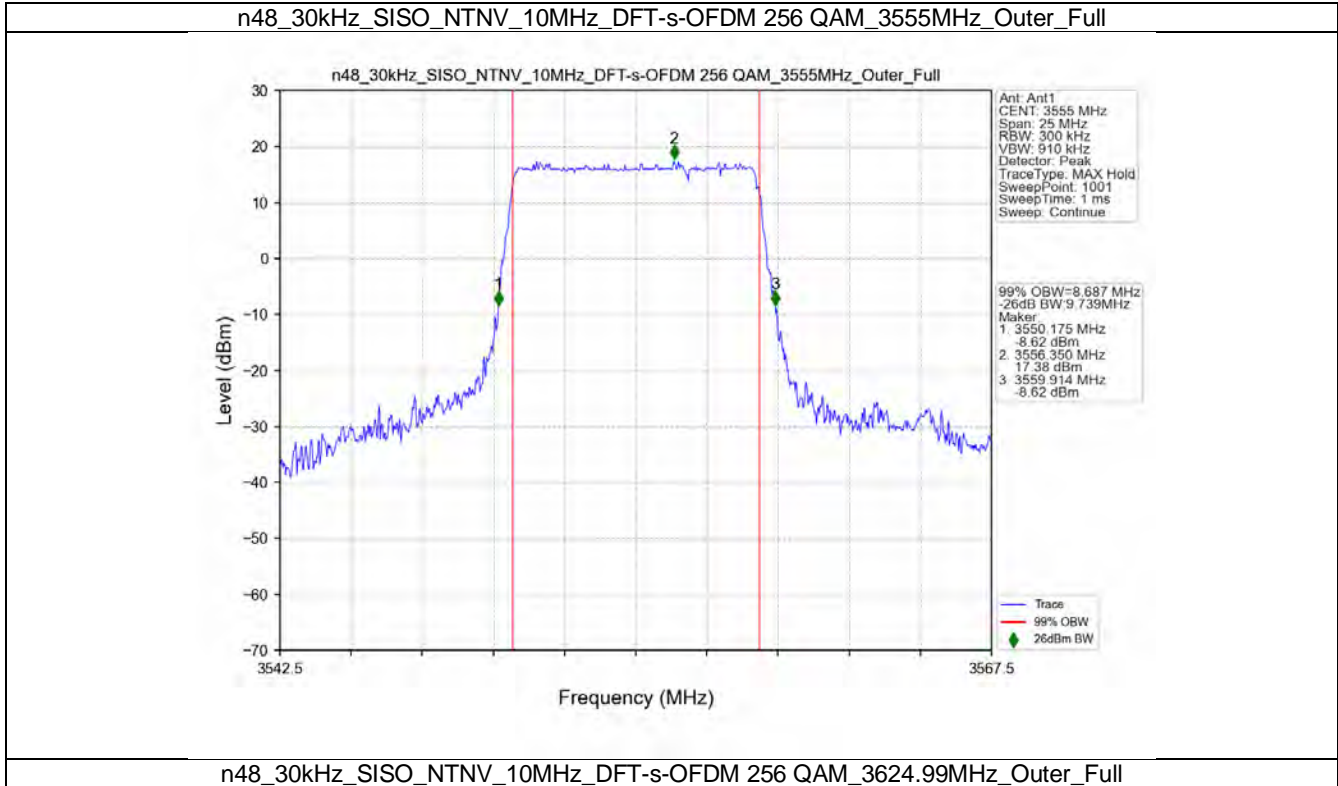


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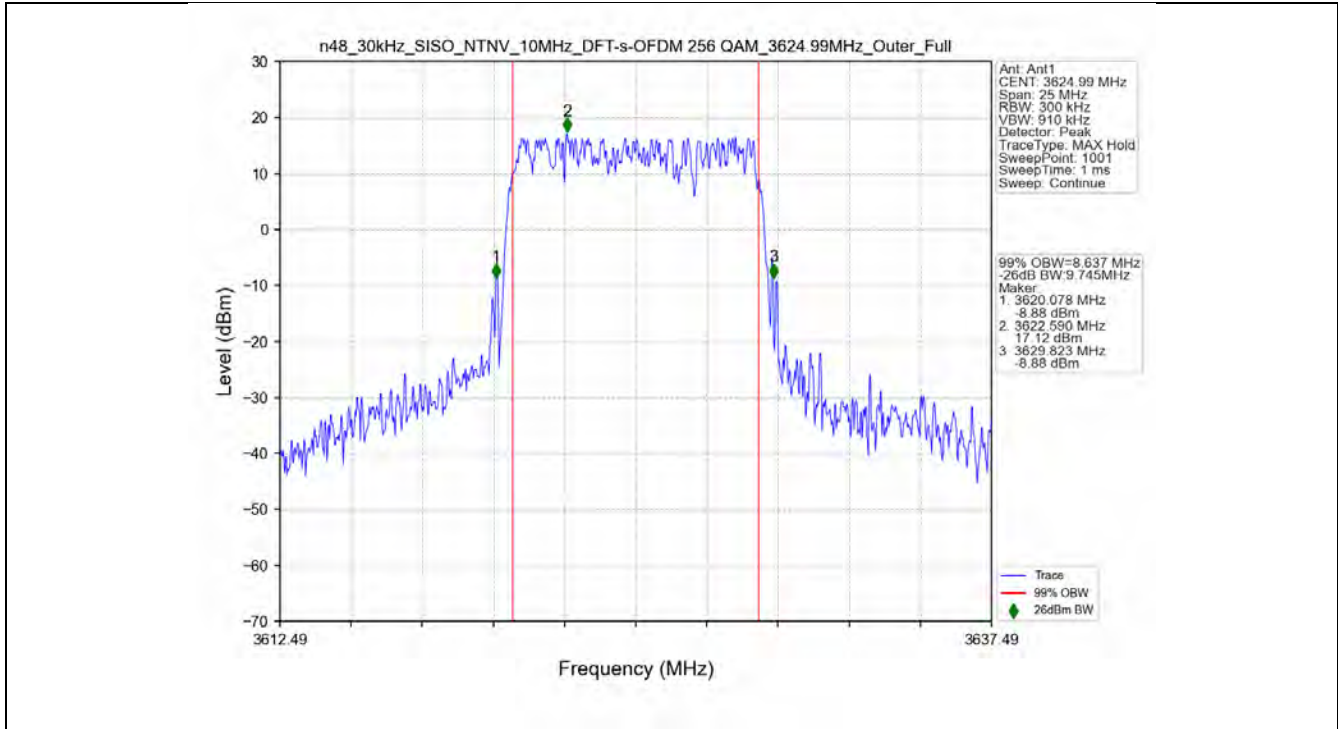


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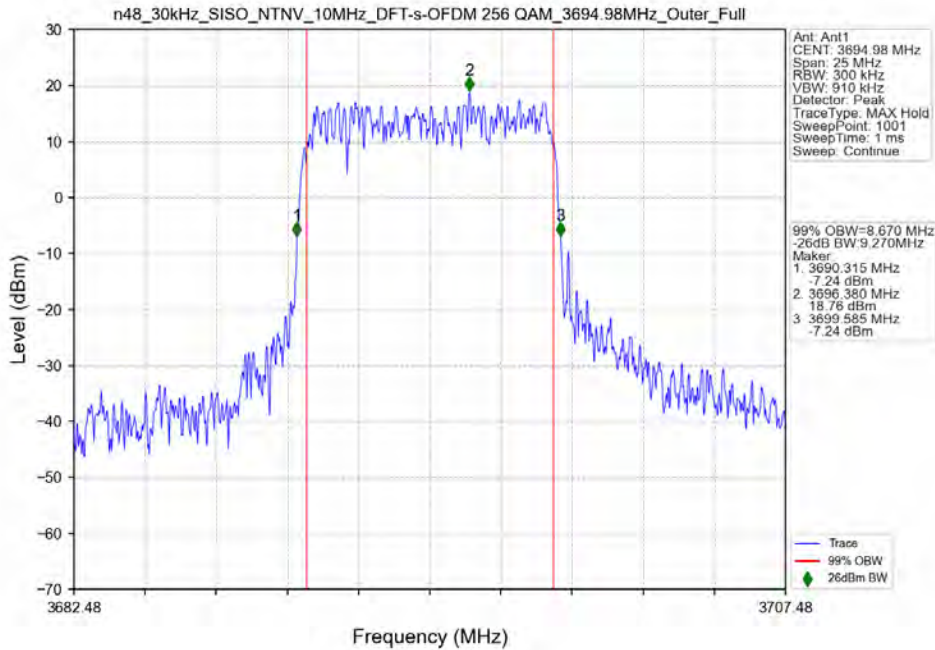
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_3694.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Outer_Full



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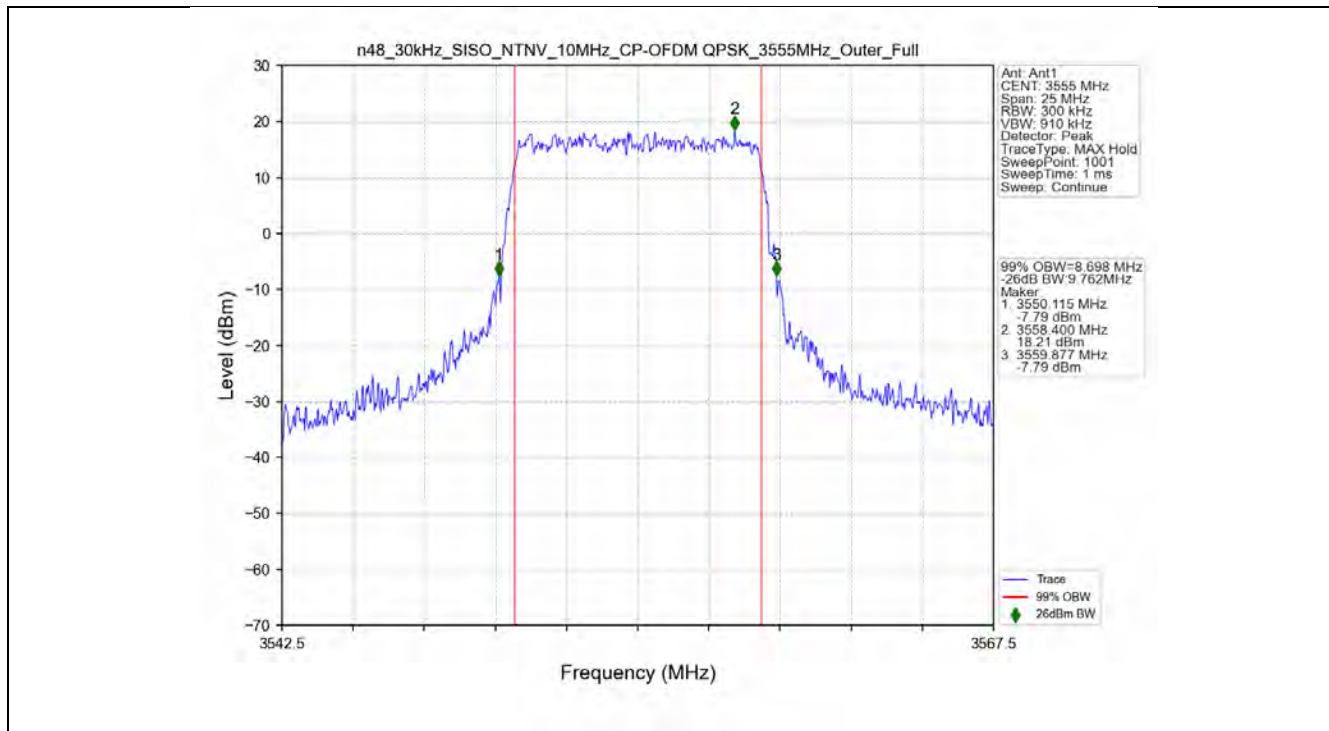
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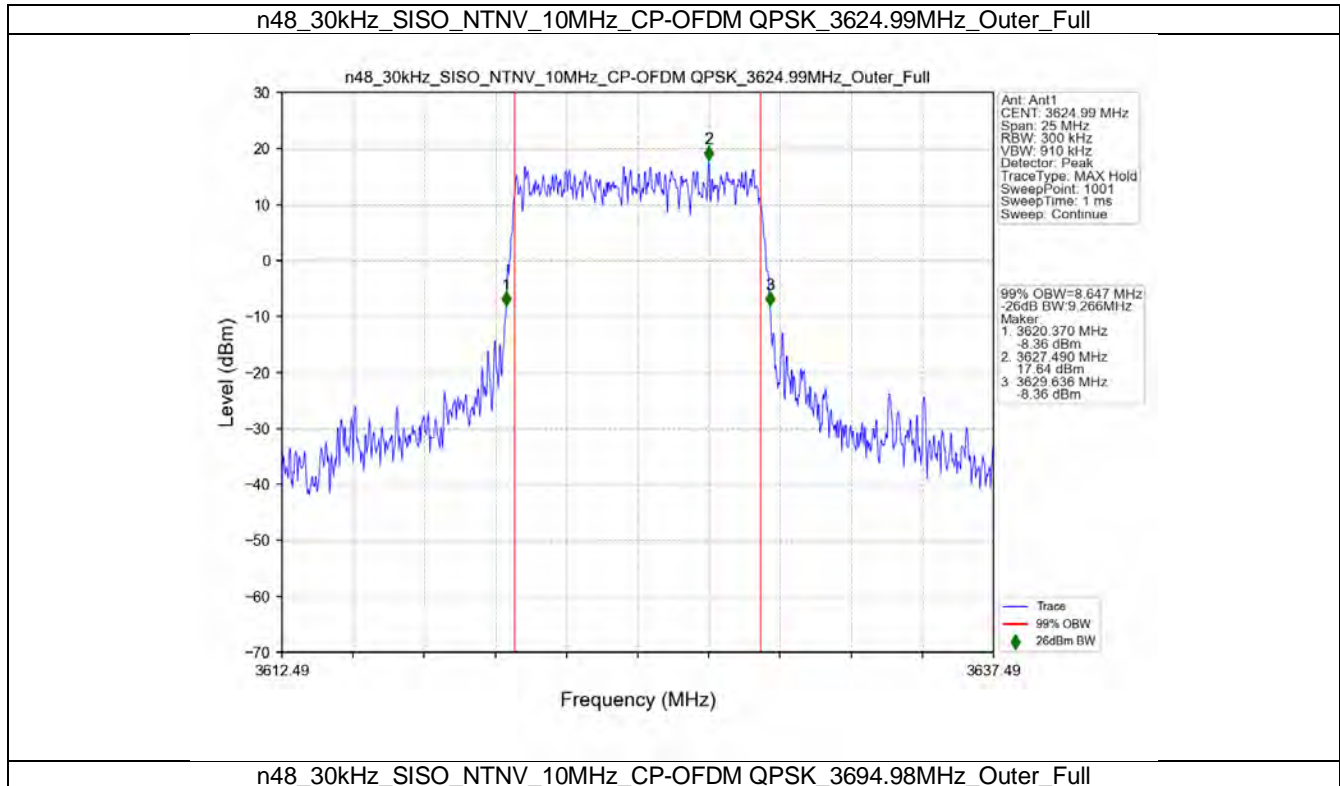


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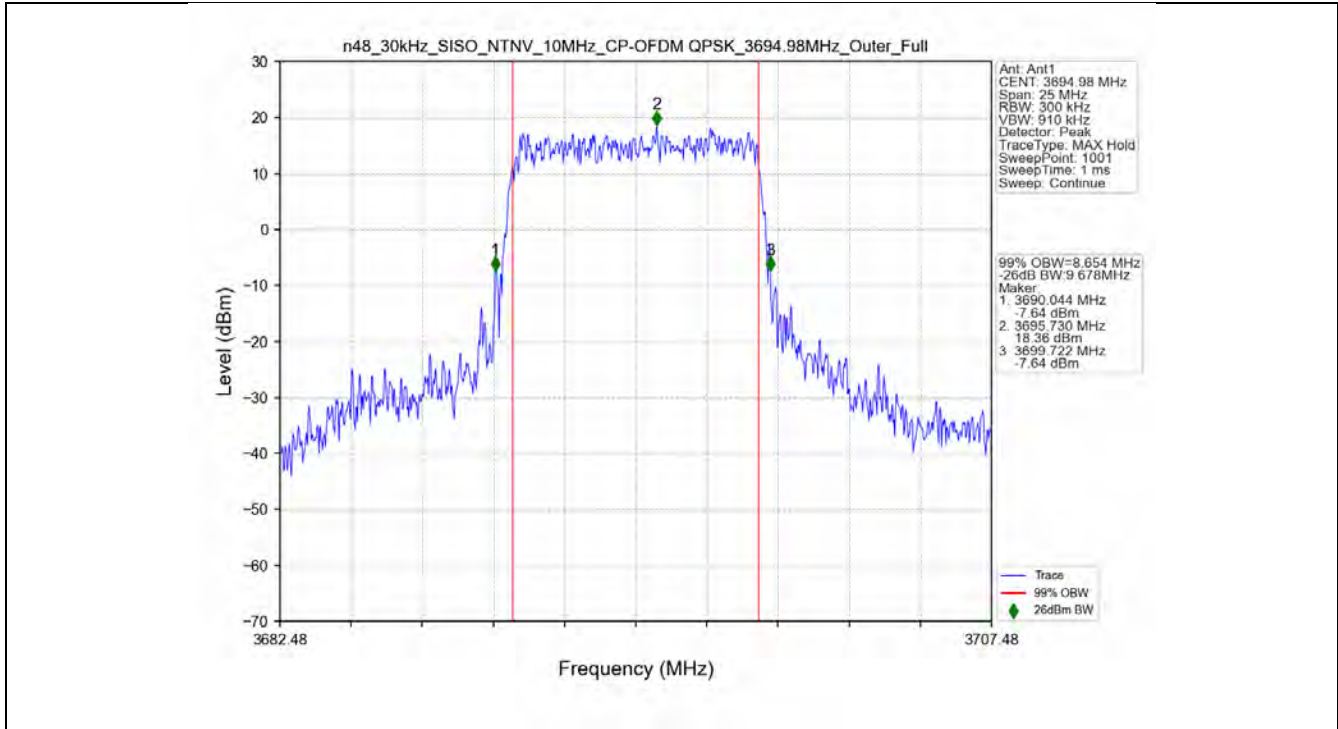


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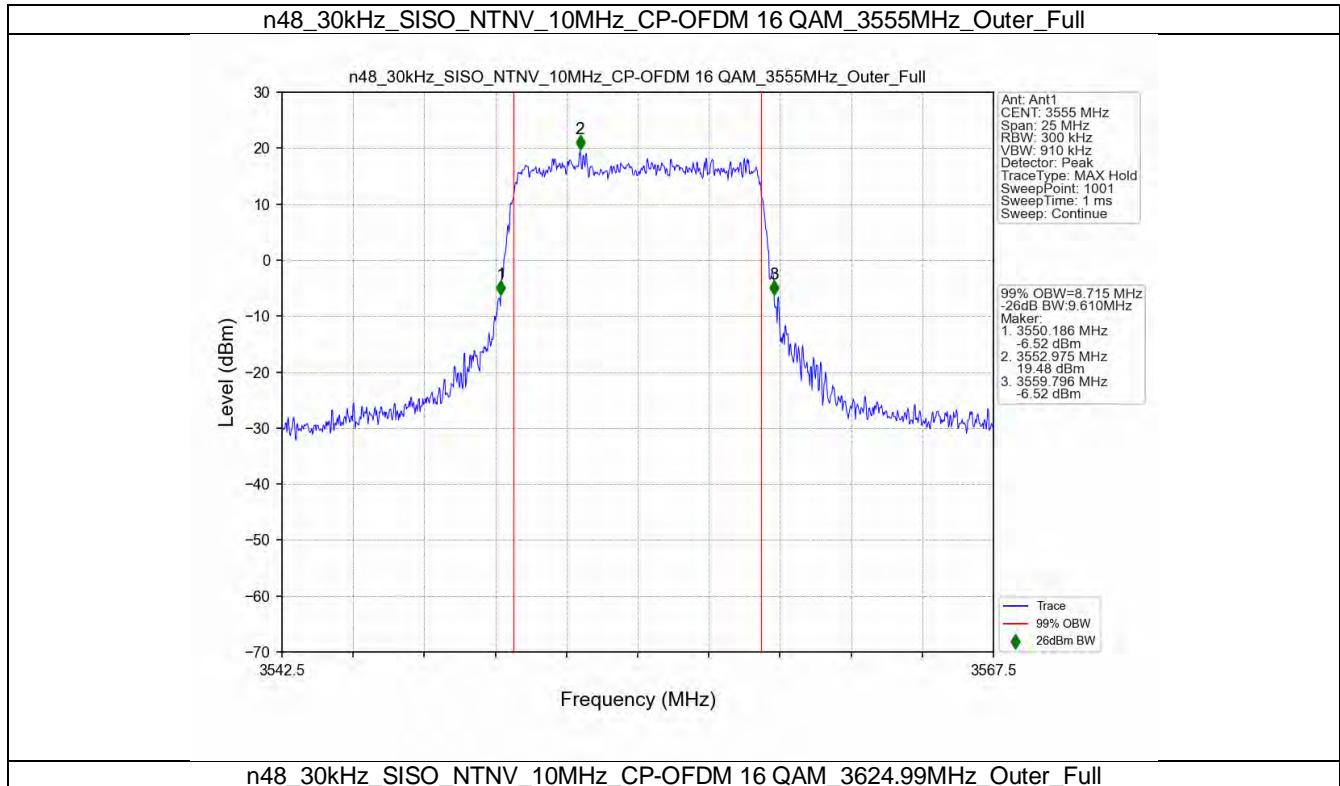


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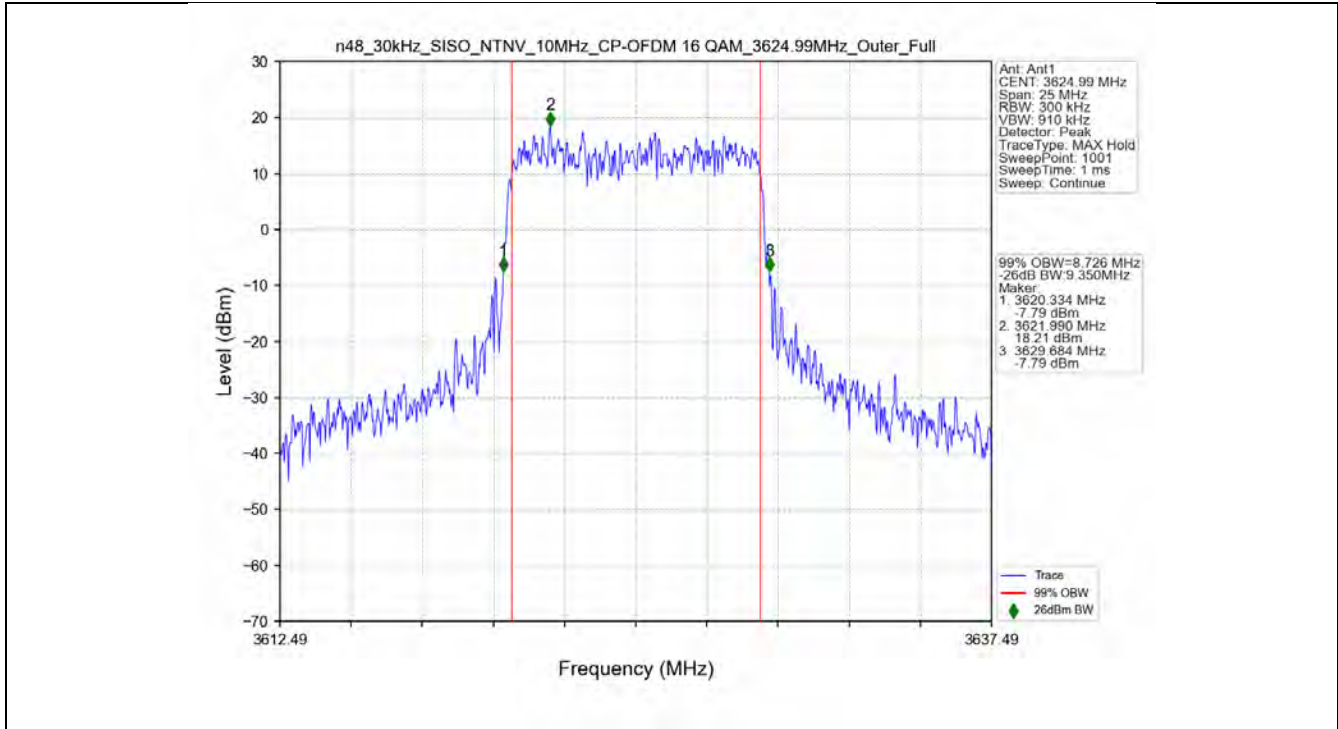


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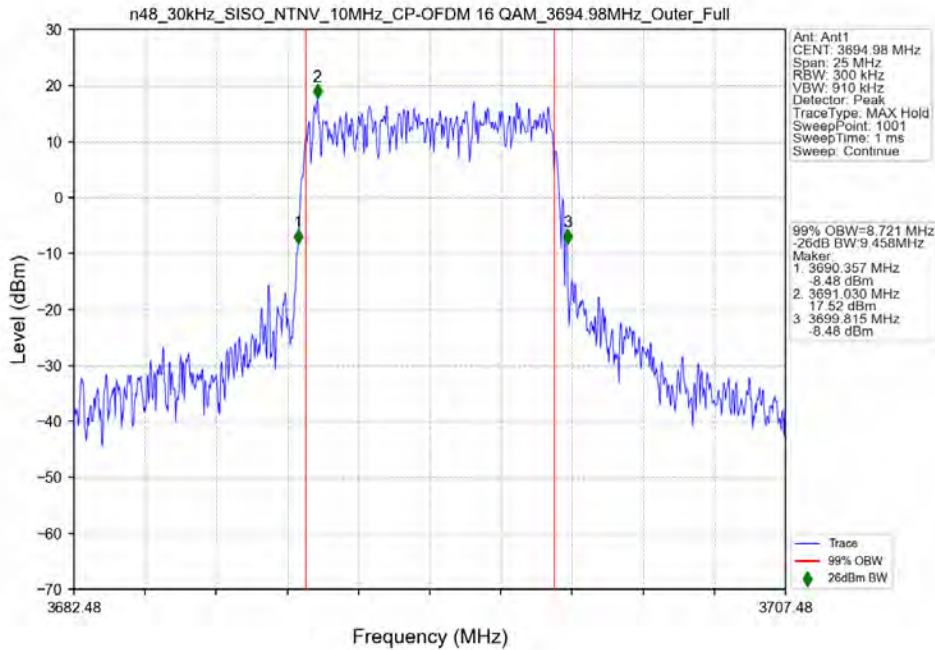
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_3694.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_3555MHz_Outer_Full



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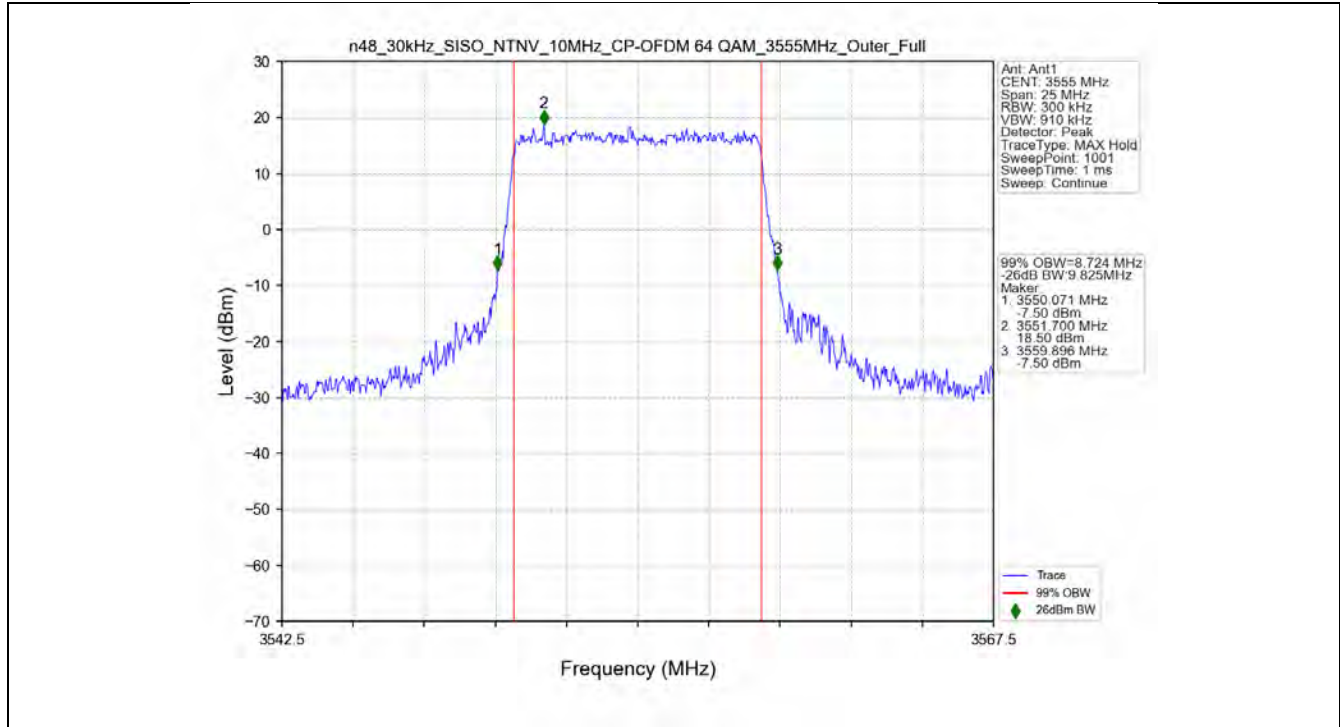


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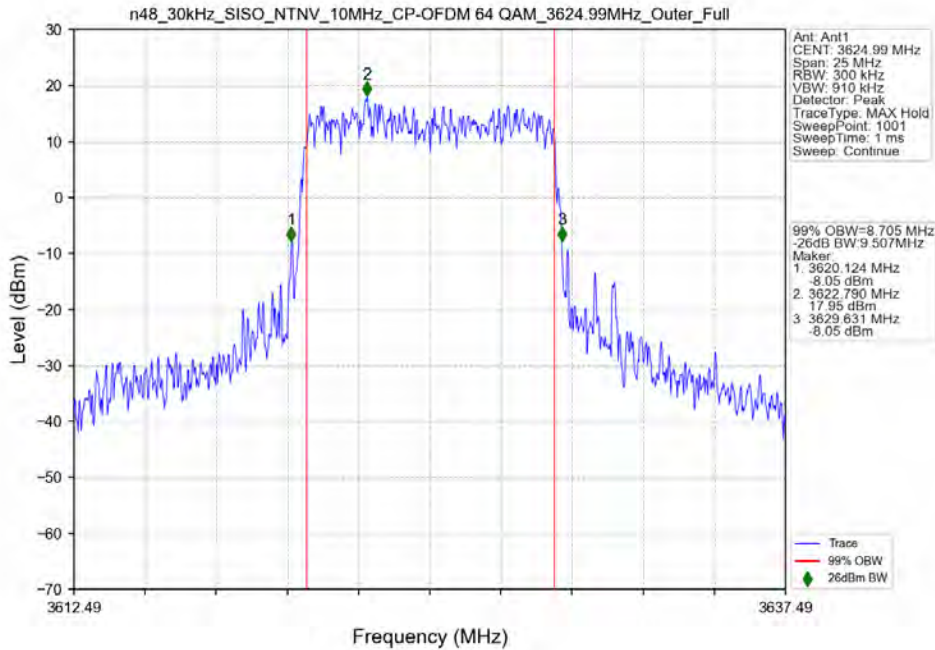
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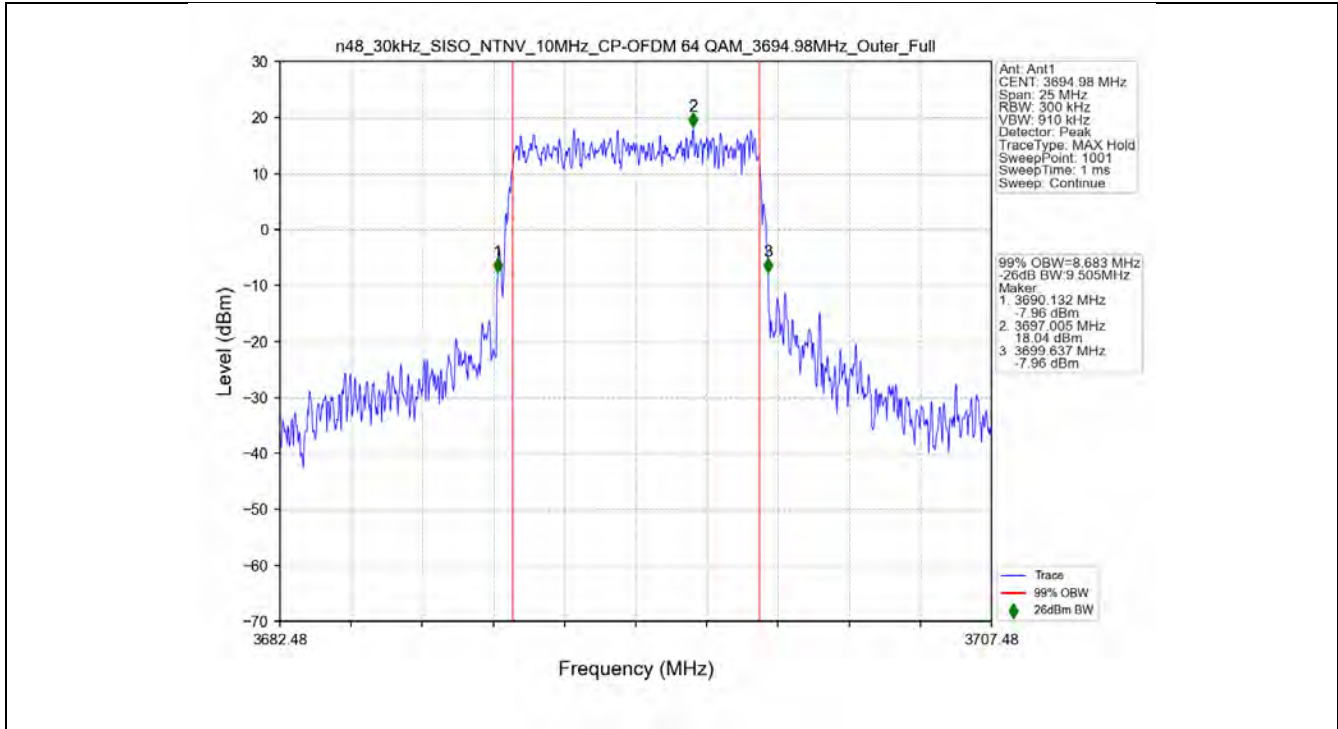


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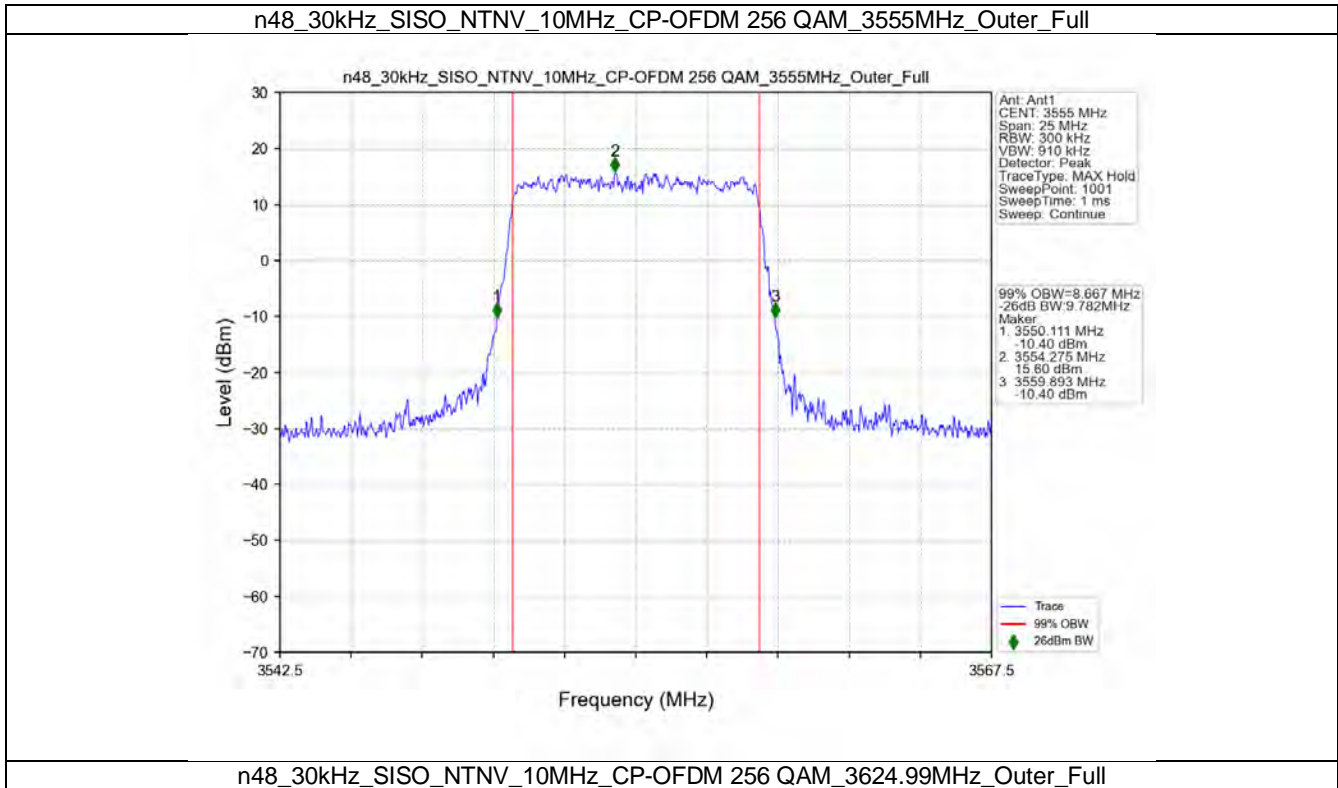


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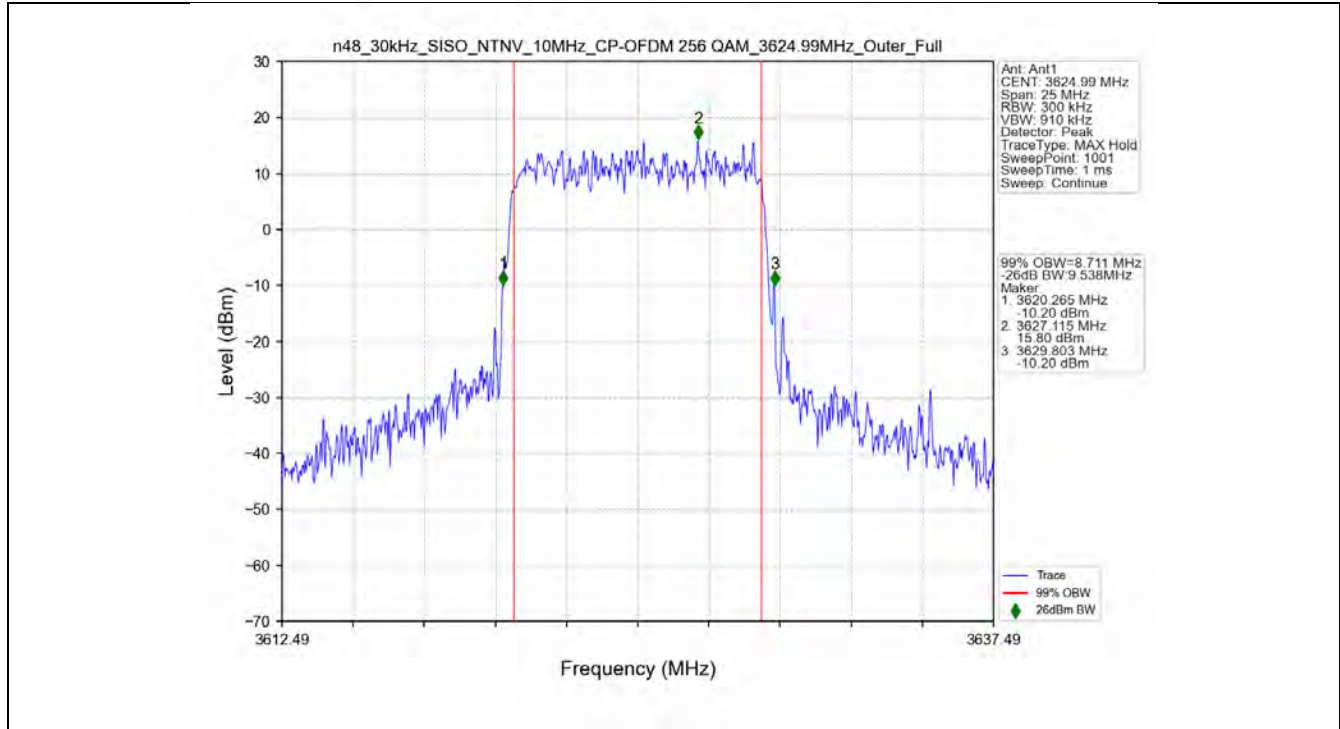


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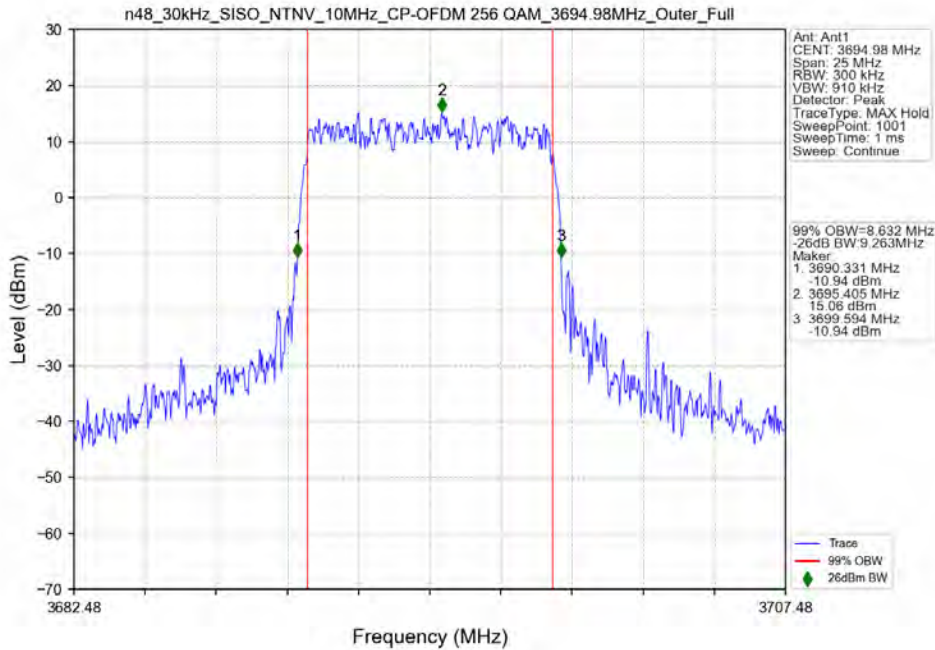
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_3694.98MHz_Outer_Full



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3.2 30k_SISO_20MHz_NTNV

3.2.1 Test Result

5G NR n48 SCS=30kHz SISO 20MHz NNTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3560.01	Outer_Full	18.10	19.61	/	Pass
	3624.99	Outer_Full	17.95	19.14	/	Pass
	3690	Outer_Full	18.14	19.26	/	Pass
DFT-s-OFDM QPSK	3560.01	Outer_Full	18.11	19.51	/	Pass
	3624.99	Outer_Full	18.00	19.22	/	Pass
	3690	Outer_Full	18.09	19.32	/	Pass
DFT-s-OFDM 16 QAM	3560.01	Outer_Full	18.07	19.58	/	Pass
	3624.99	Outer_Full	18.07	19.27	/	Pass
	3690	Outer_Full	18.11	19.26	/	Pass
DFT-s-OFDM 64 QAM	3560.01	Outer_Full	18.06	19.57	/	Pass
	3624.99	Outer_Full	18.14	19.31	/	Pass
	3690	Outer_Full	18.13	19.43	/	Pass
DFT-s-OFDM 256 QAM	3560.01	Outer_Full	18.04	19.61	/	Pass
	3624.99	Outer_Full	18.03	19.24	/	Pass
	3690	Outer_Full	18.02	19.16	/	Pass
CP-OFDM QPSK	3560.01	Outer_Full	18.38	19.77	/	Pass
	3624.99	Outer_Full	18.39	19.83	/	Pass
	3690	Outer_Full	18.44	19.76	/	Pass
CP-OFDM 16 QAM	3560.01	Outer_Full	18.40	20.06	/	Pass
	3624.99	Outer_Full	18.32	19.63	/	Pass
	3690	Outer_Full	18.37	19.89	/	Pass
CP-OFDM 64 QAM	3560.01	Outer_Full	18.37	20.02	/	Pass
	3624.99	Outer_Full	18.37	19.58	/	Pass
	3690	Outer_Full	18.32	19.62	/	Pass
CP-OFDM 256 QAM	3560.01	Outer_Full	18.35	20.13	/	Pass
	3624.99	Outer_Full	18.30	19.59	/	Pass
	3690	Outer_Full	18.43	19.57	/	Pass



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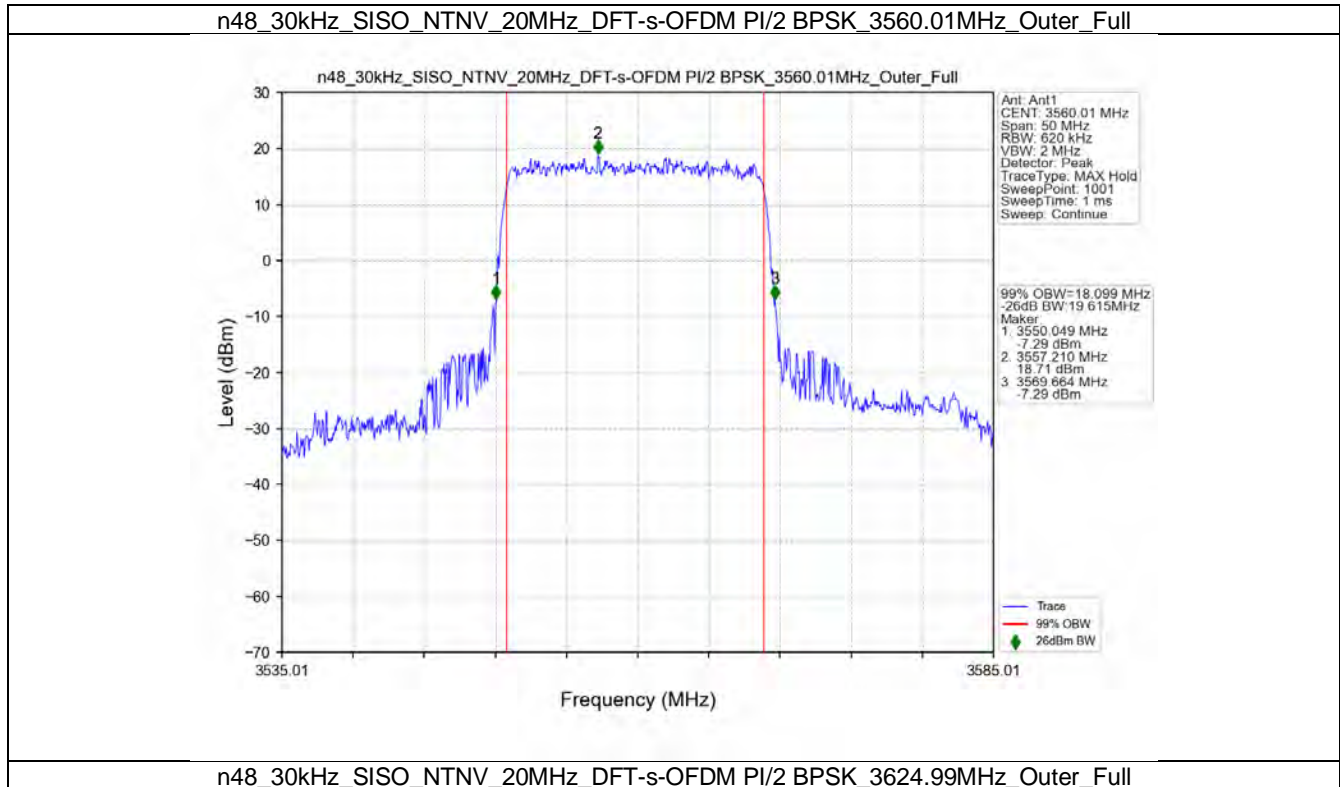
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3.2.2 Test Graph



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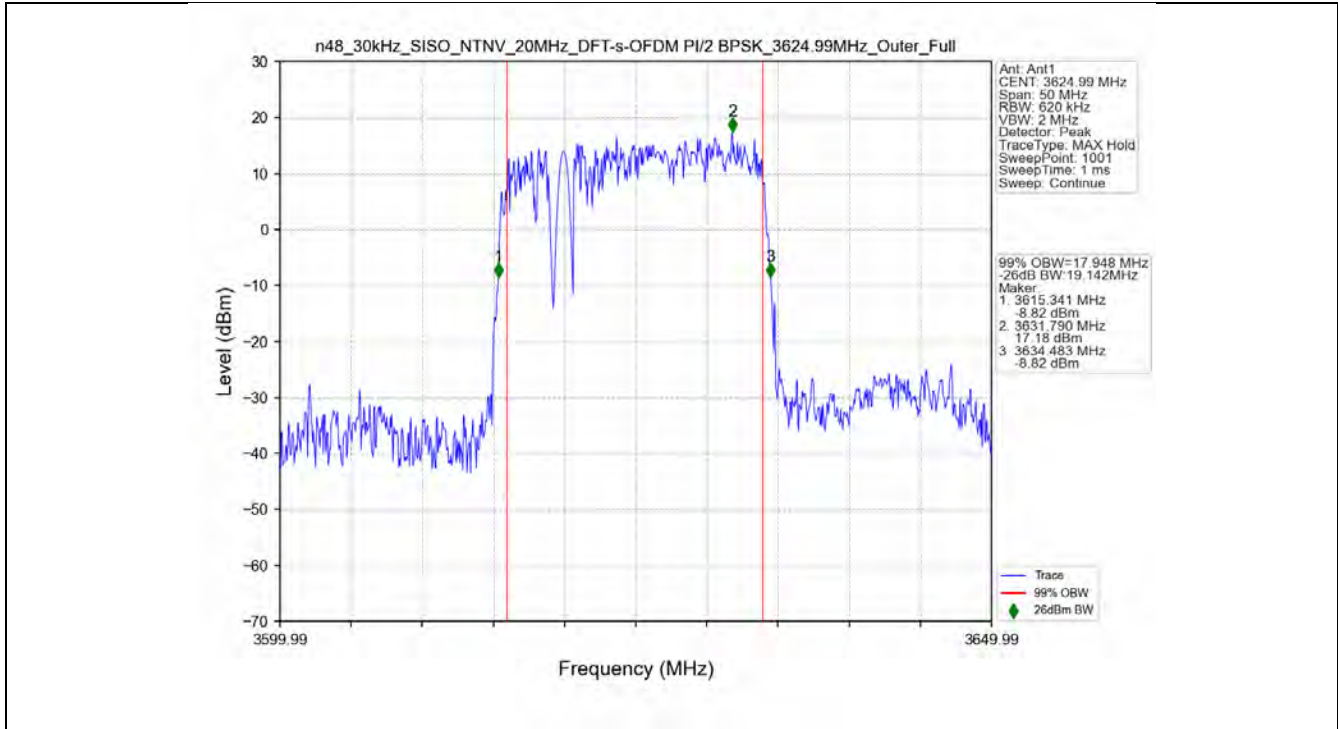


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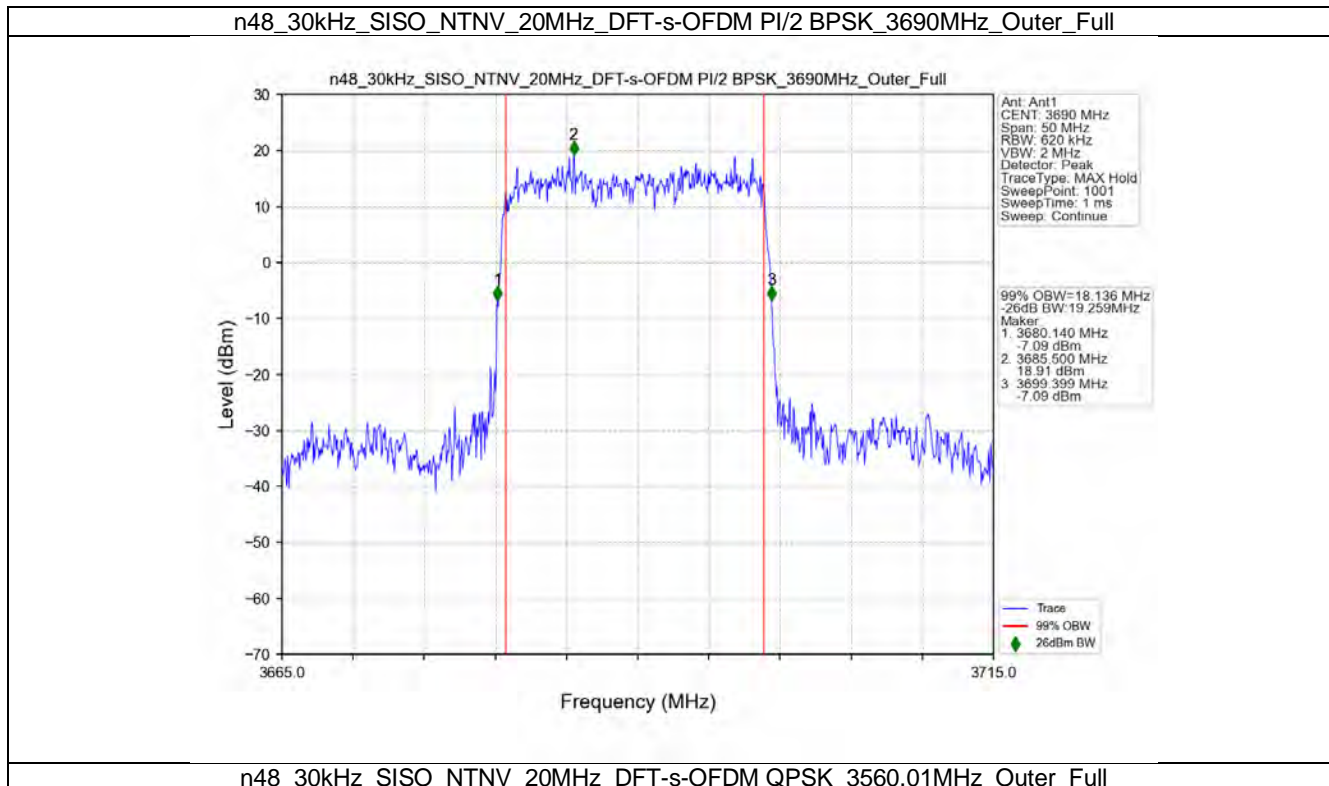
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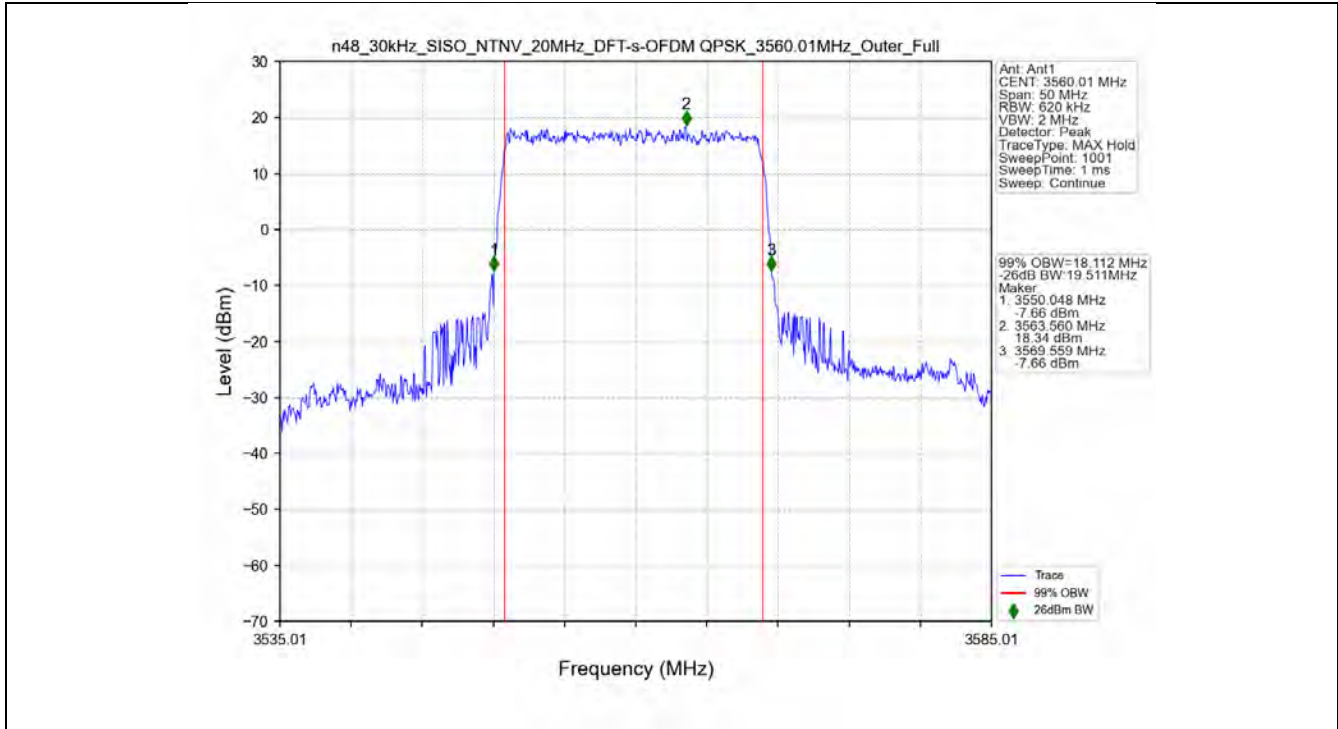


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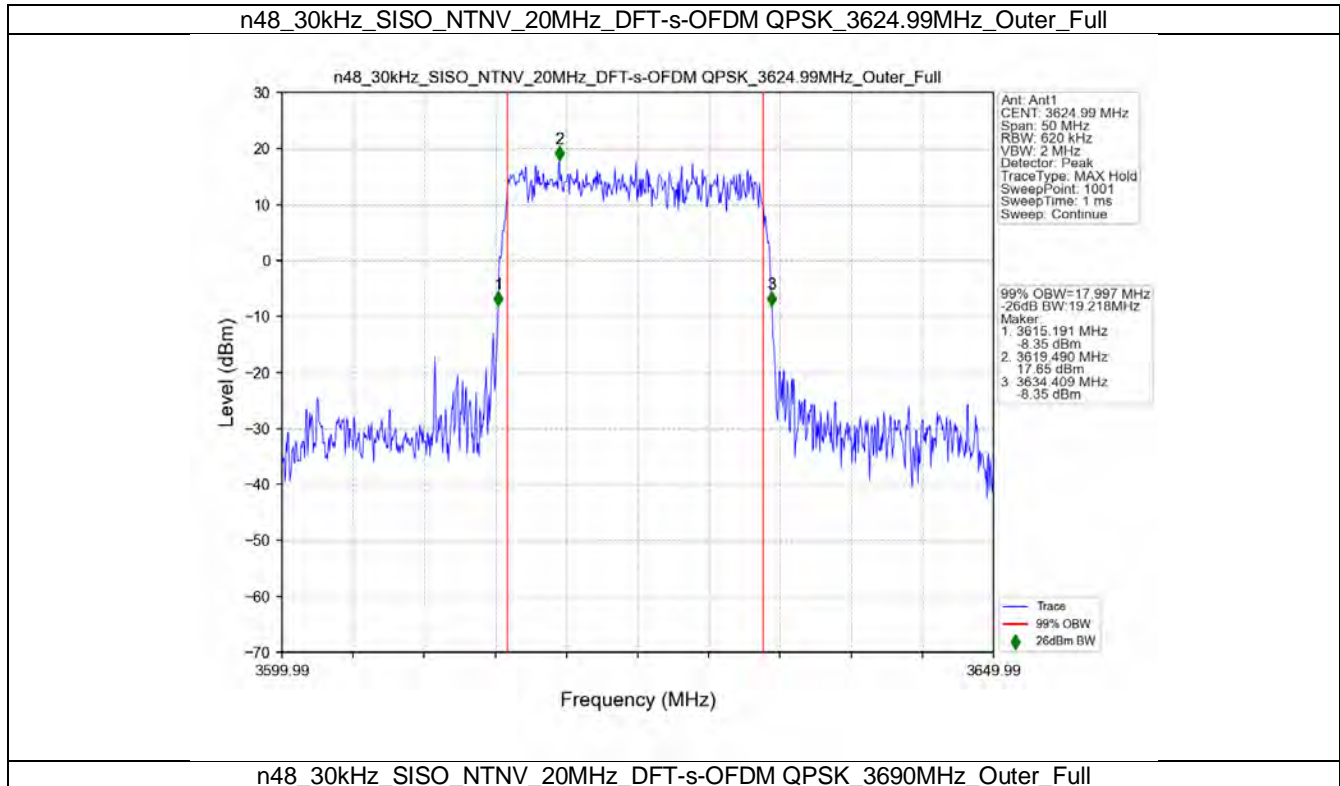


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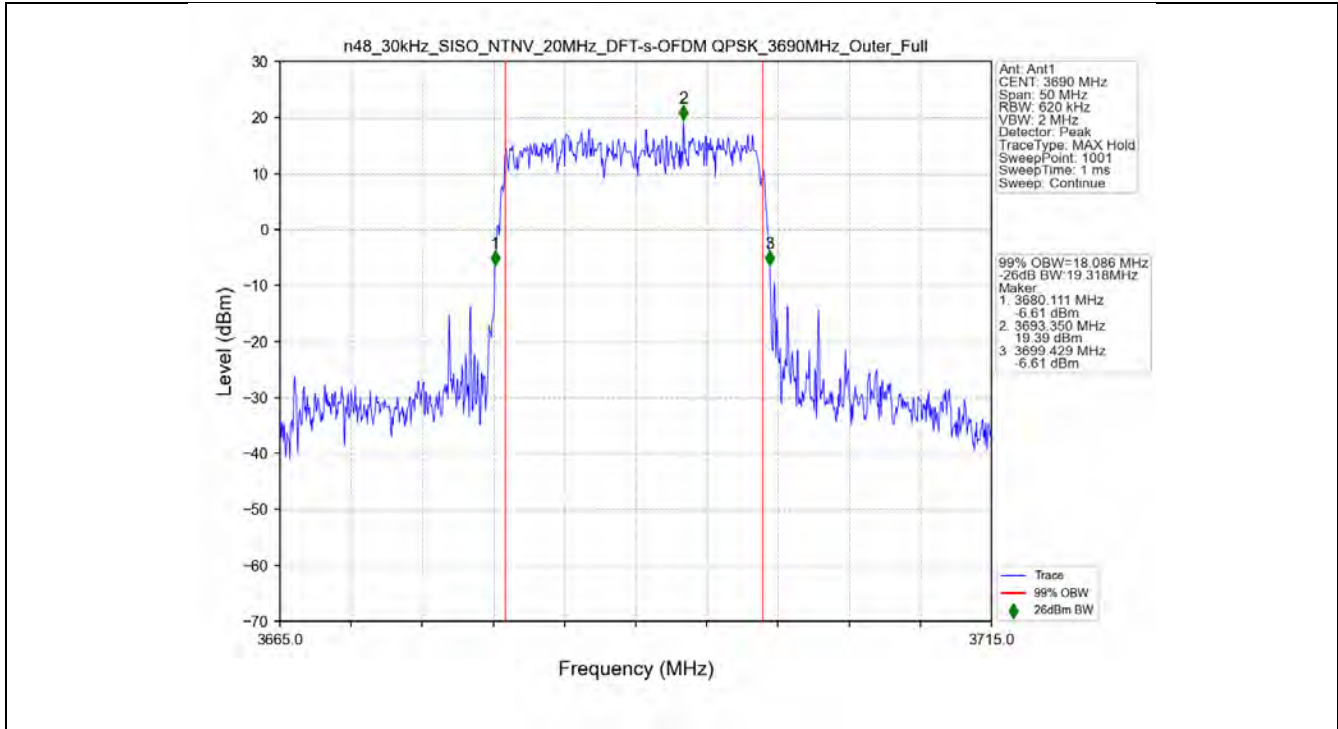


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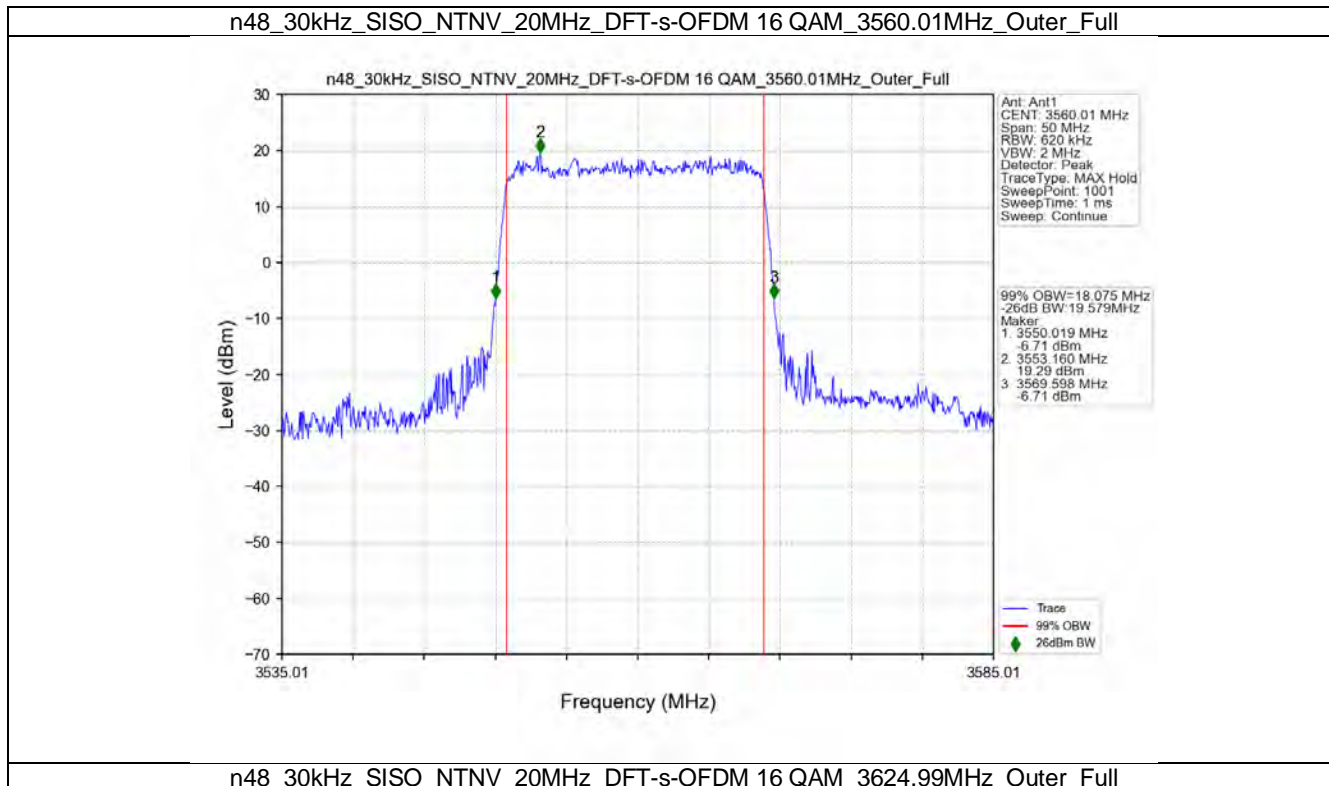
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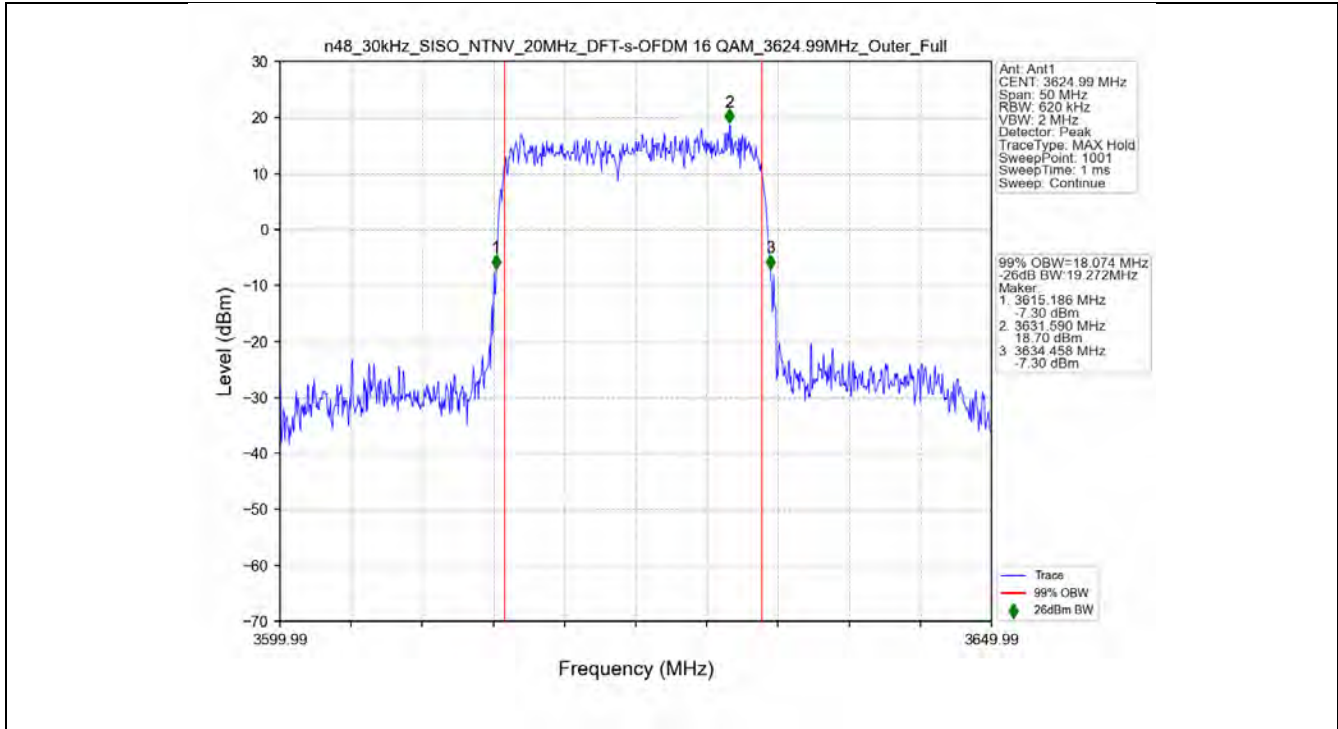


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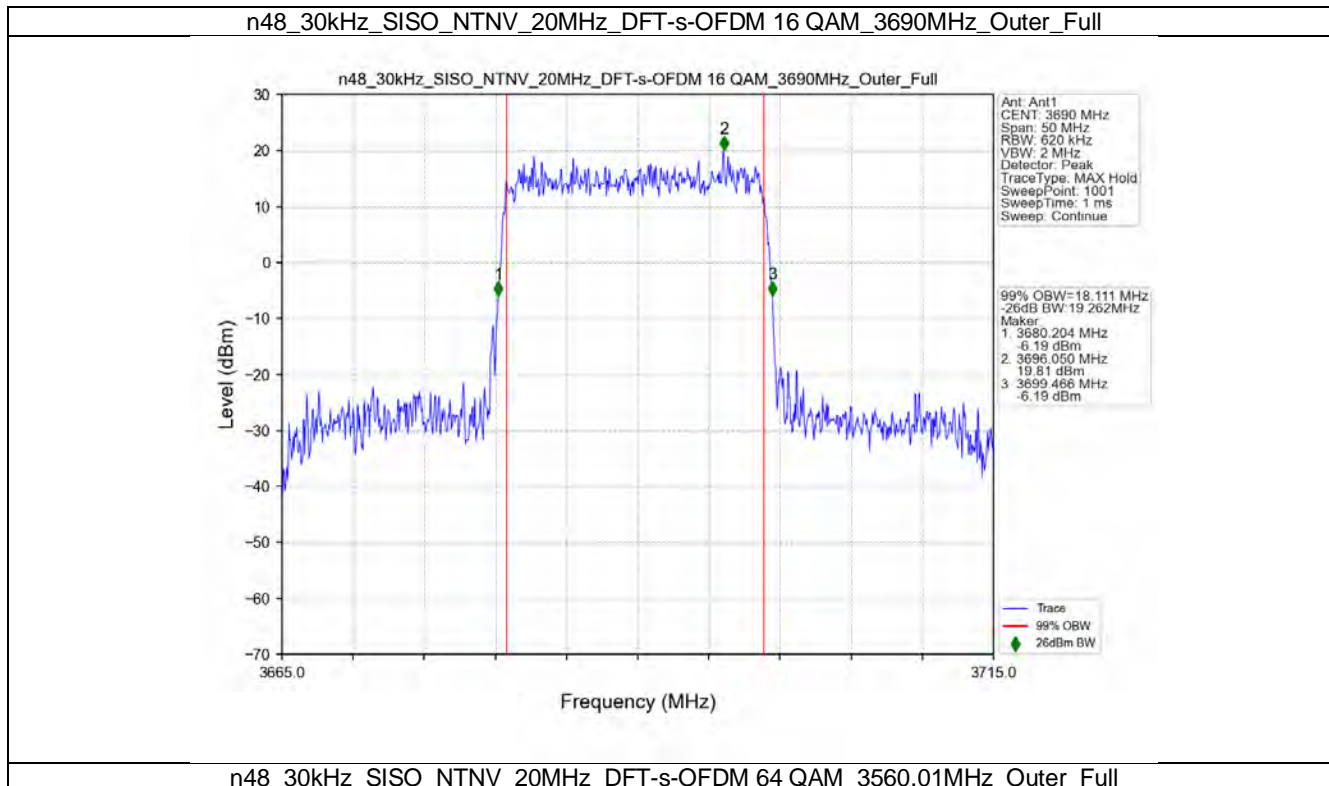
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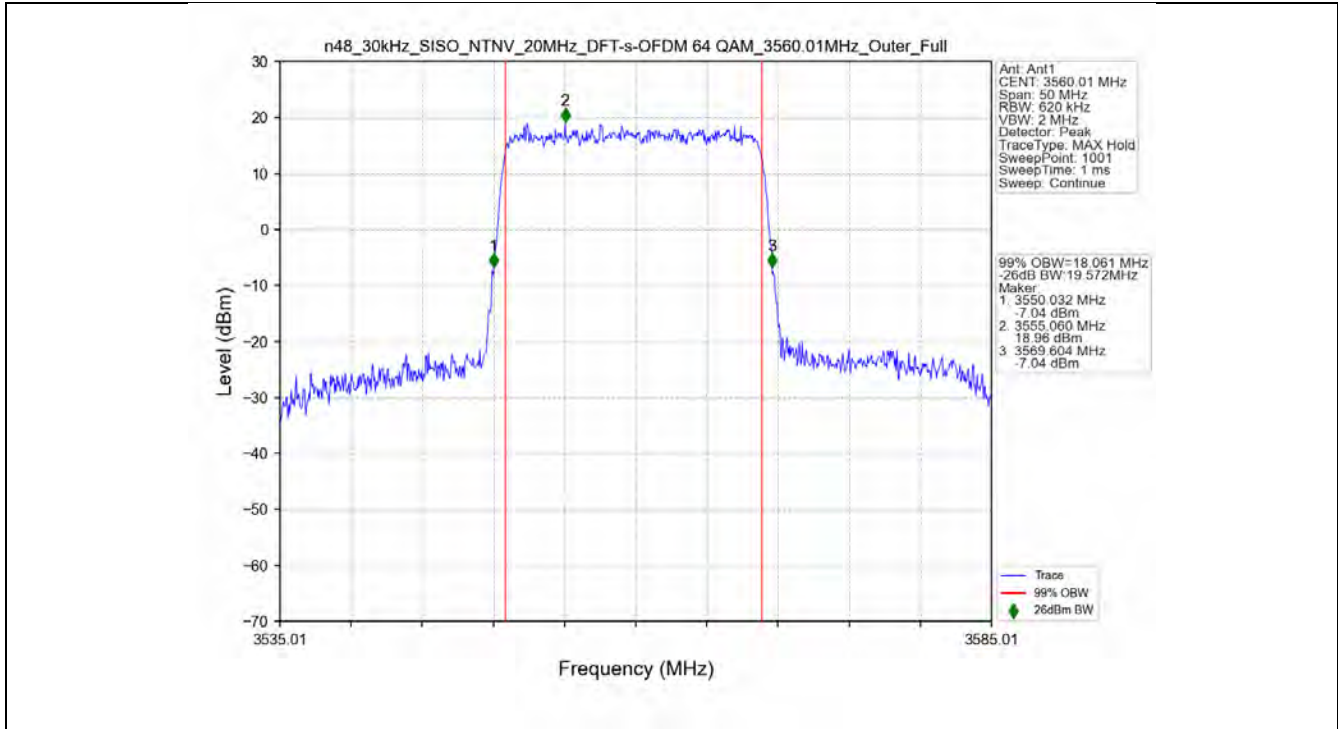


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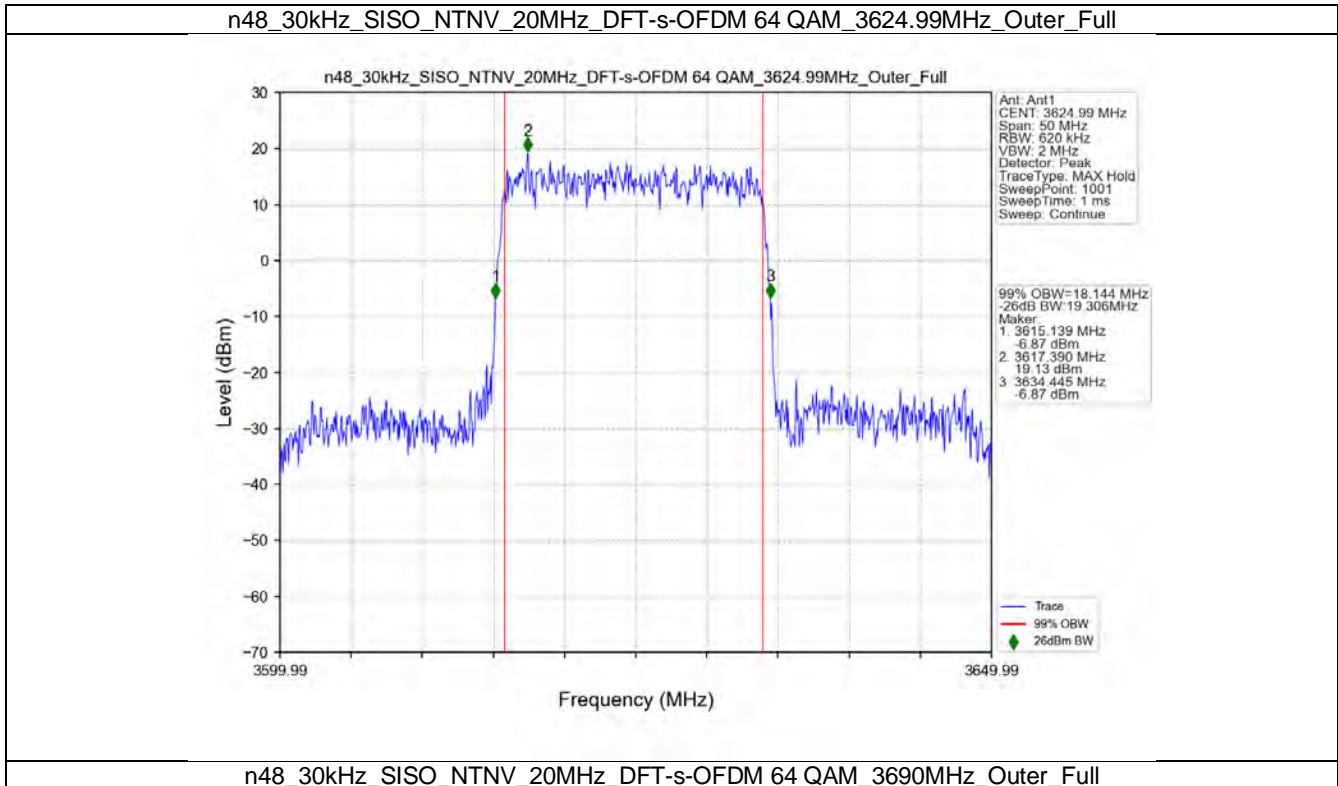


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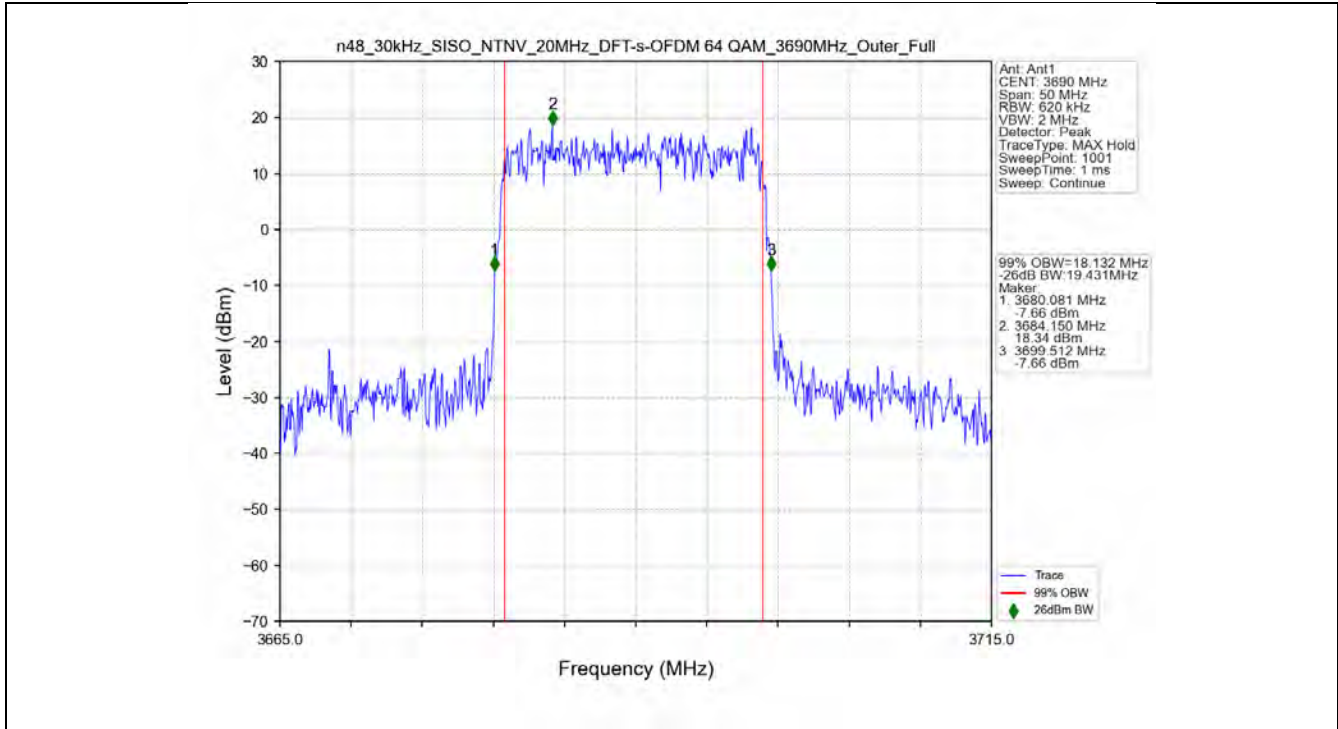


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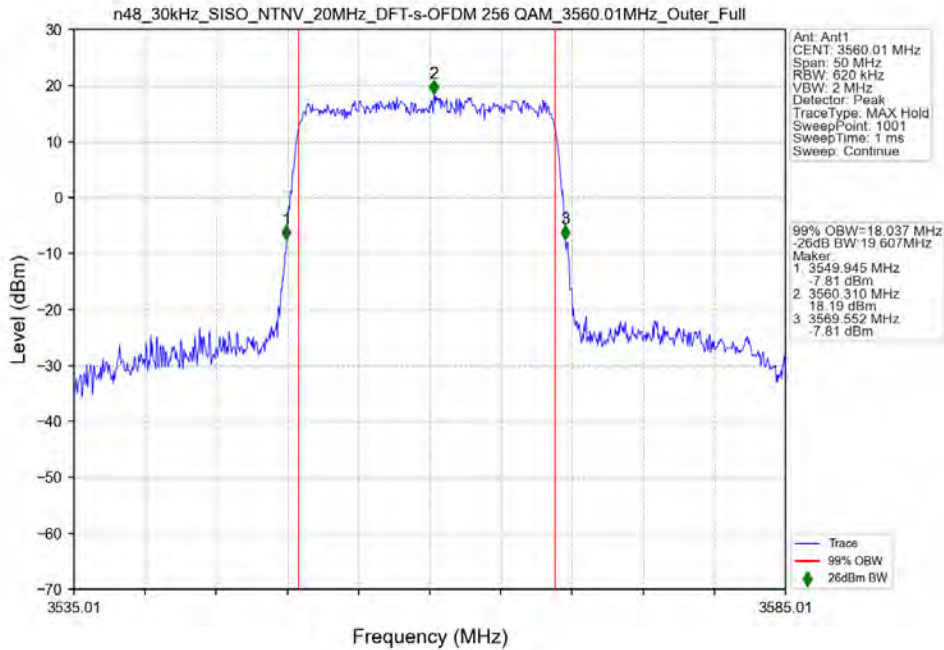
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_3624.99MHz_Outer_Full



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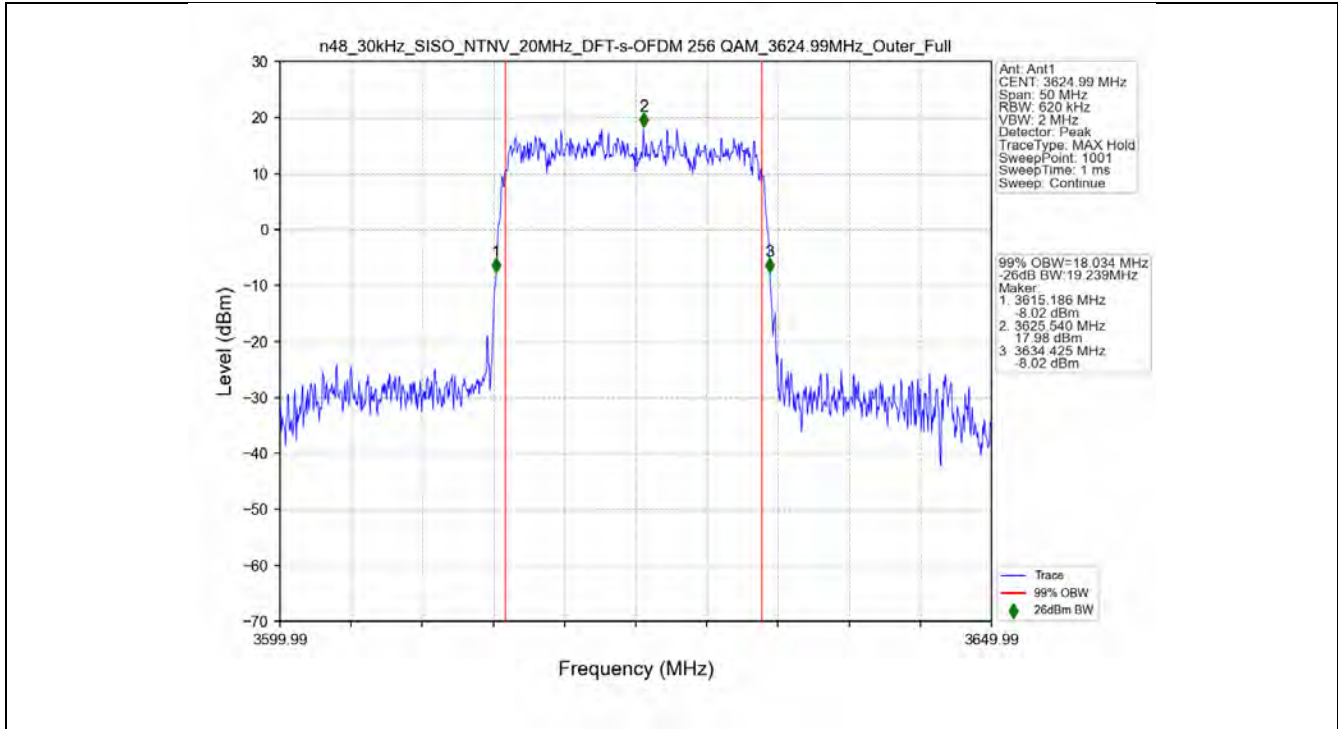


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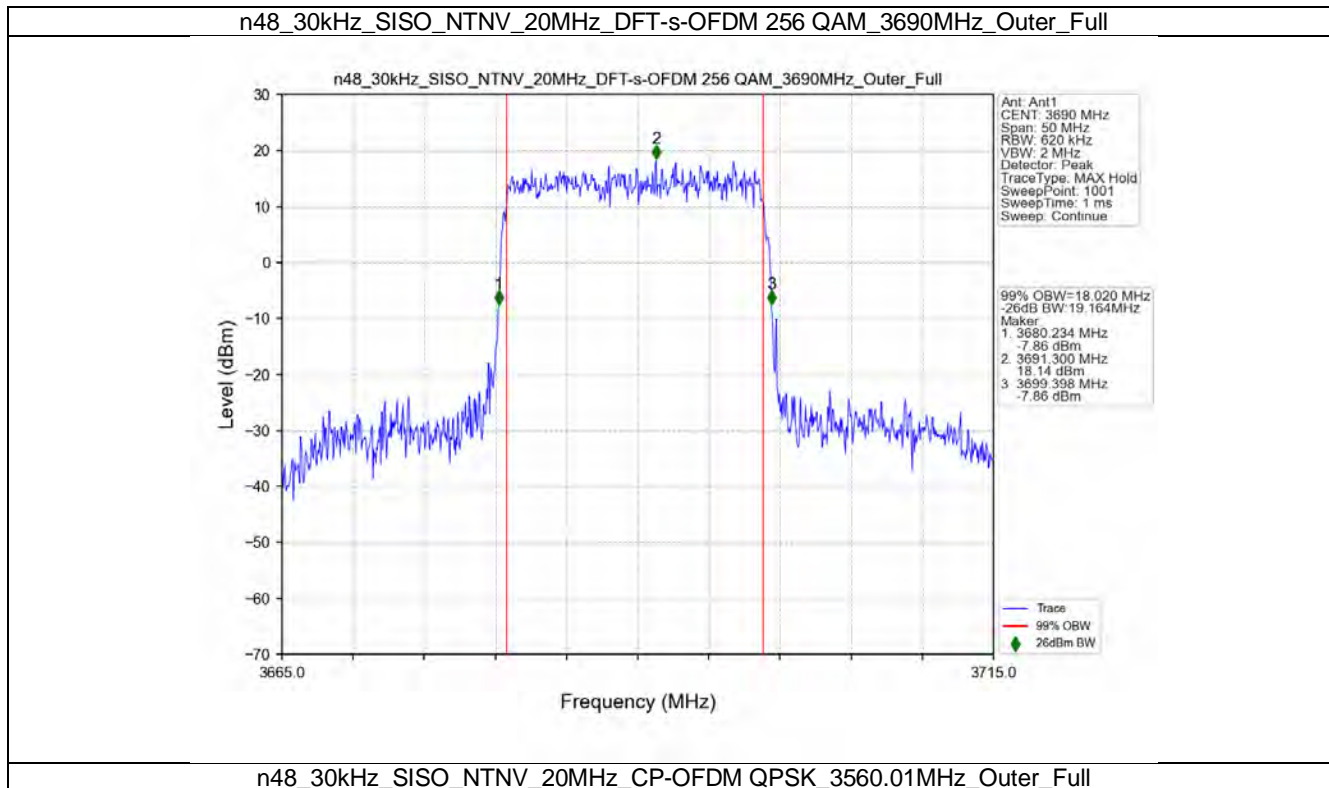
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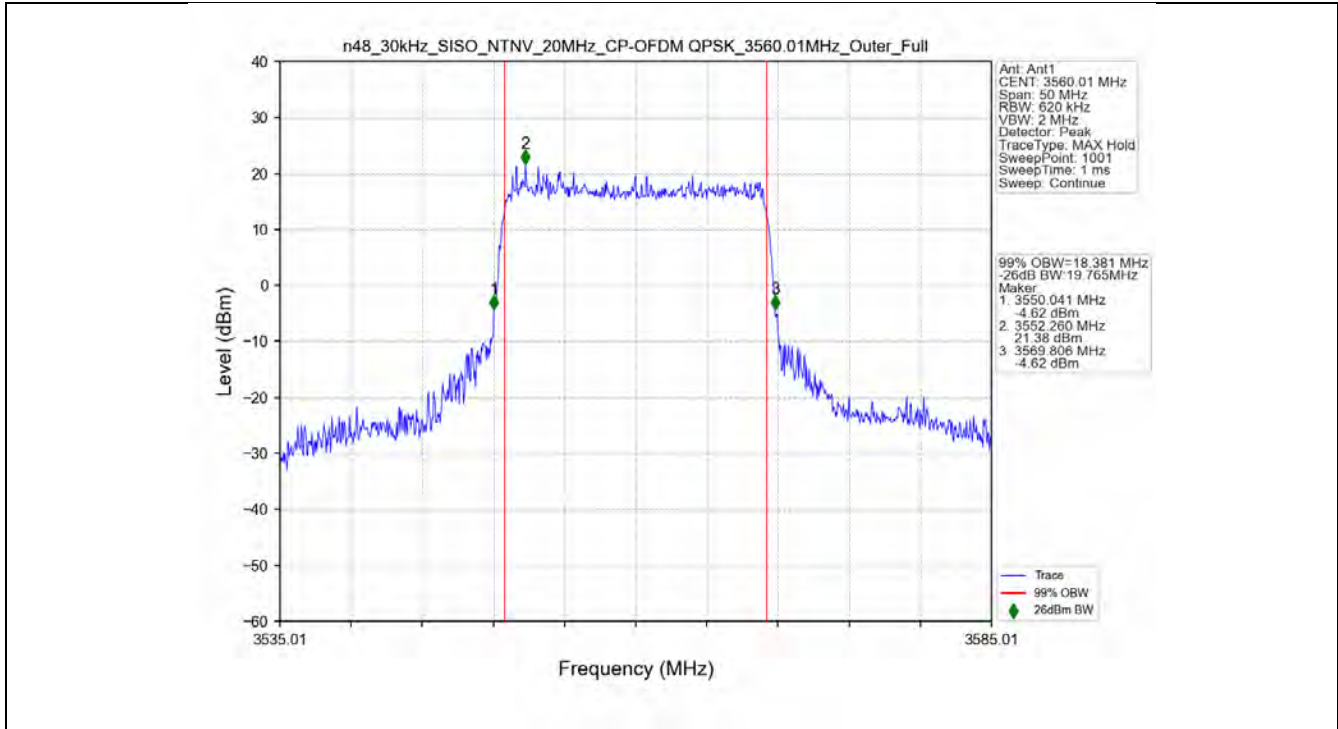


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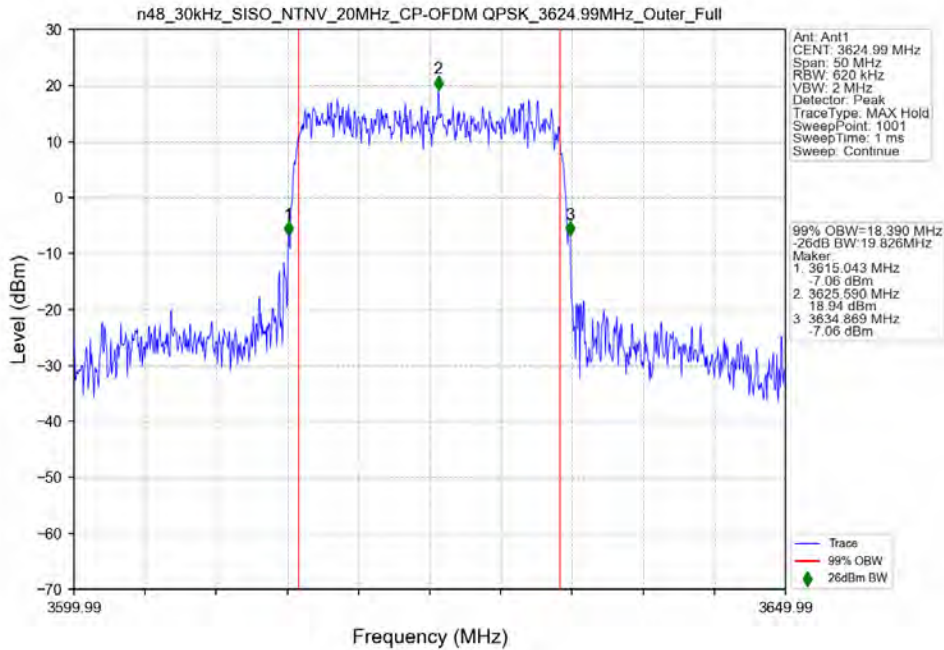
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n48_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3690MHz_Outer_Full



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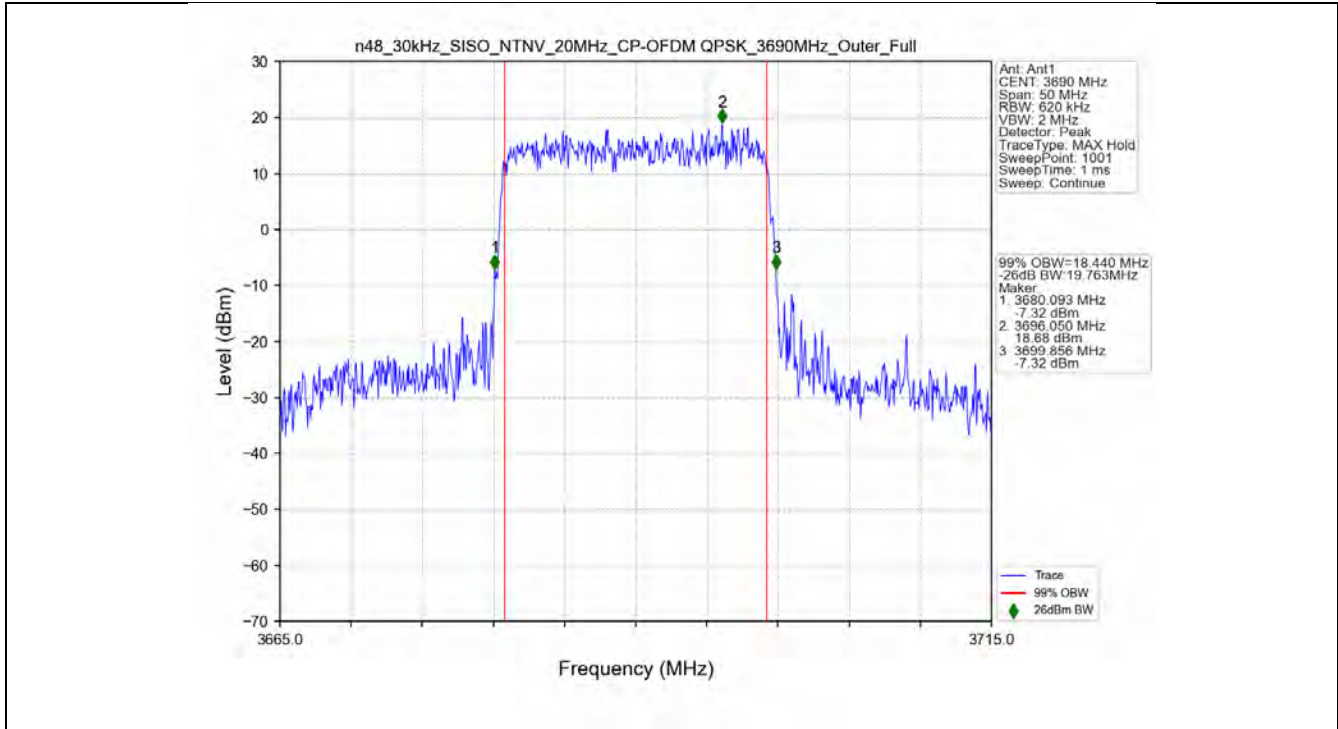


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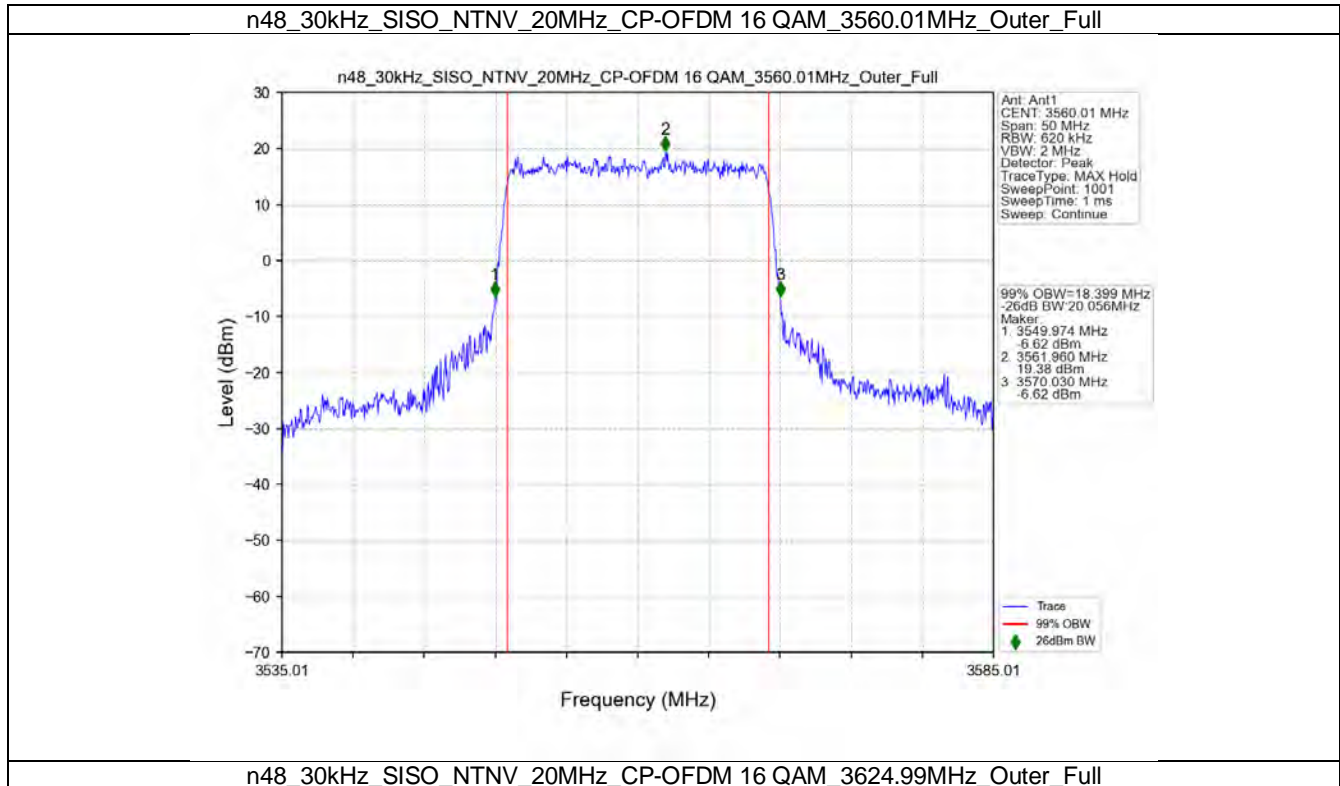


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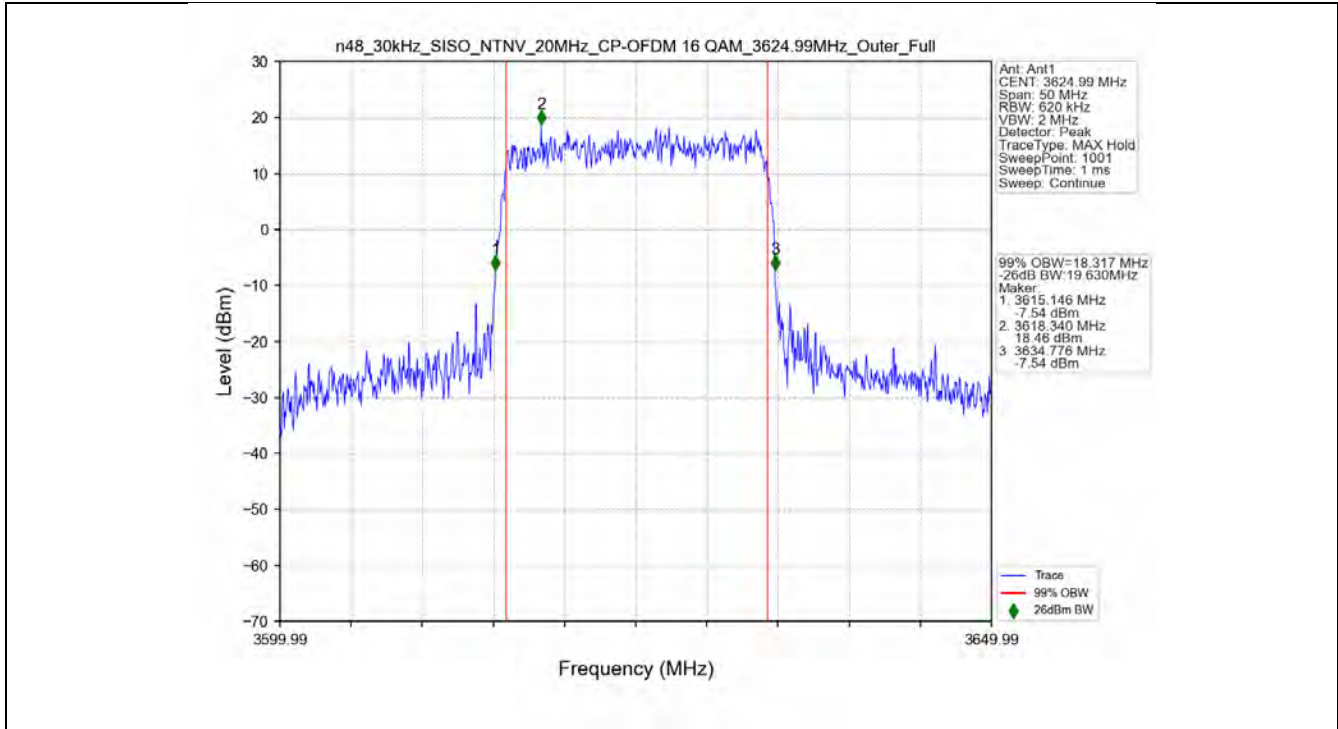


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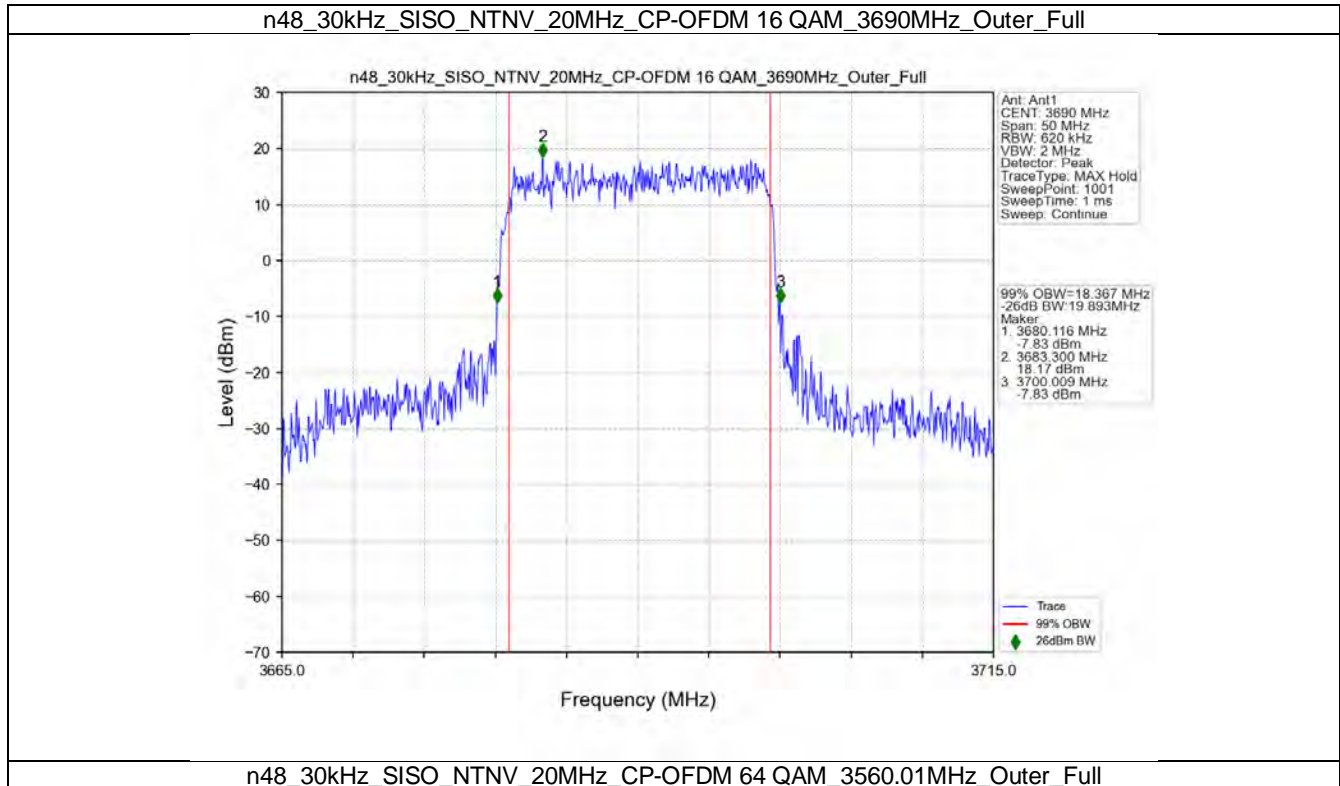


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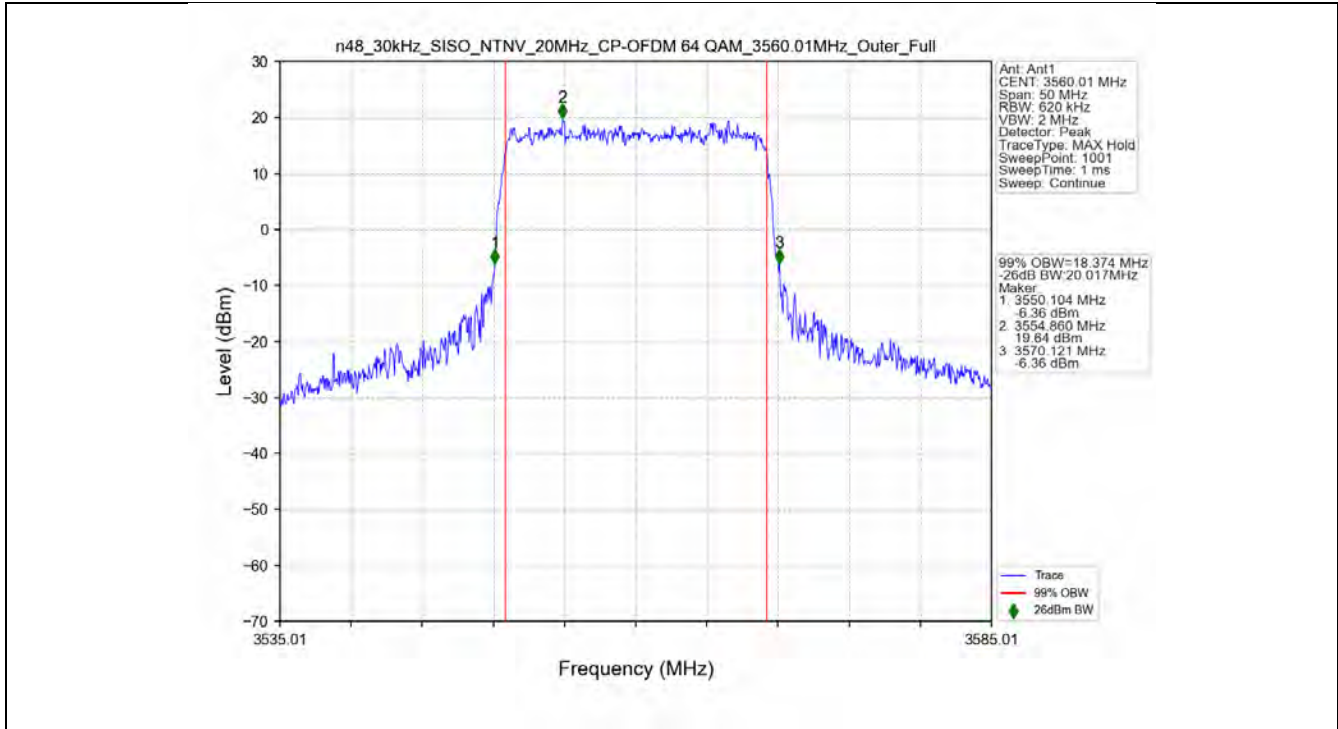


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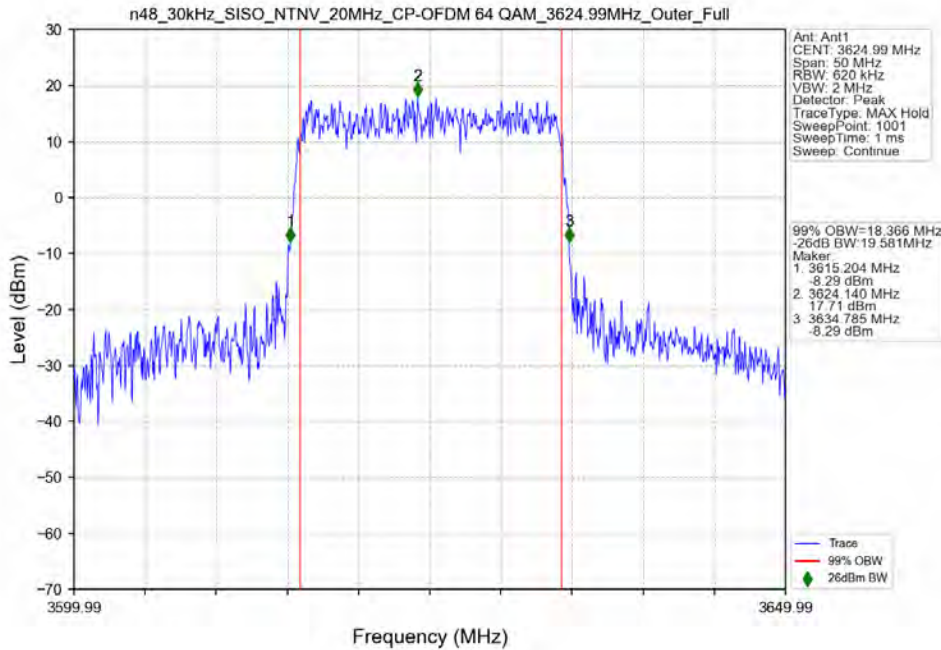
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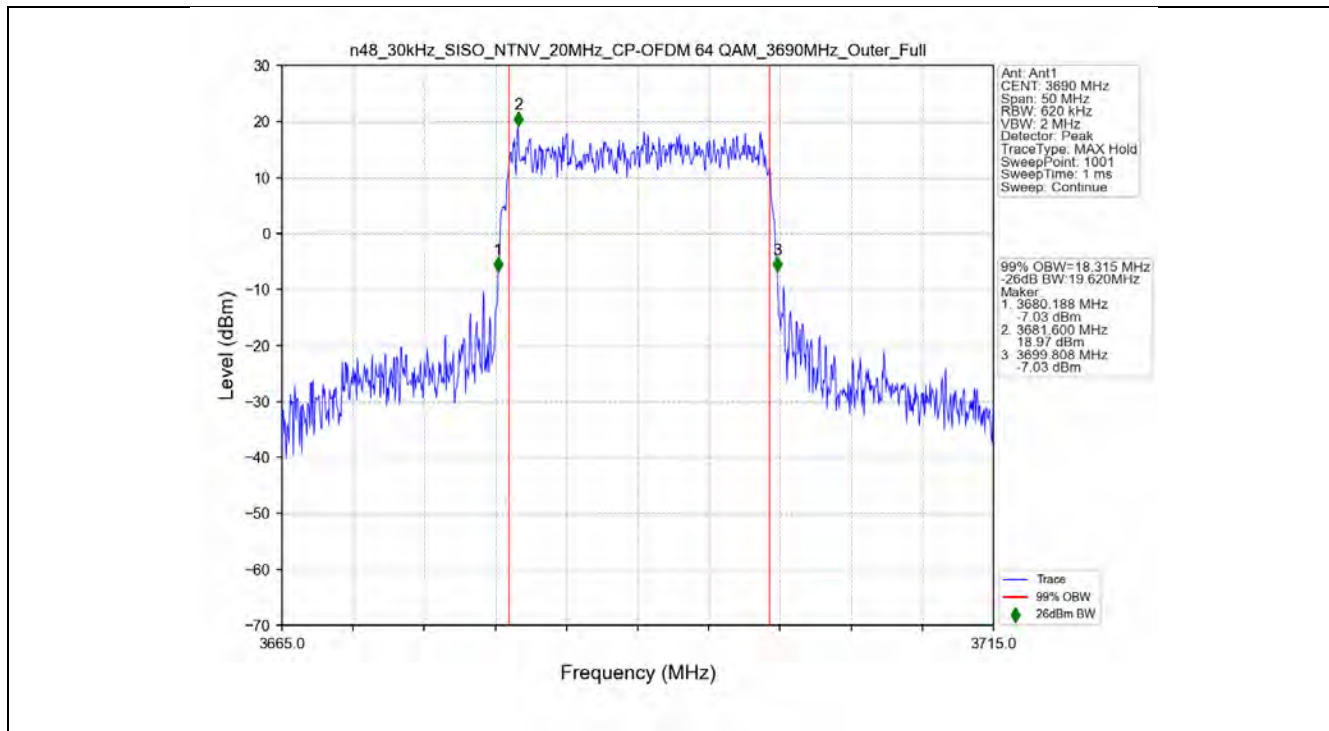
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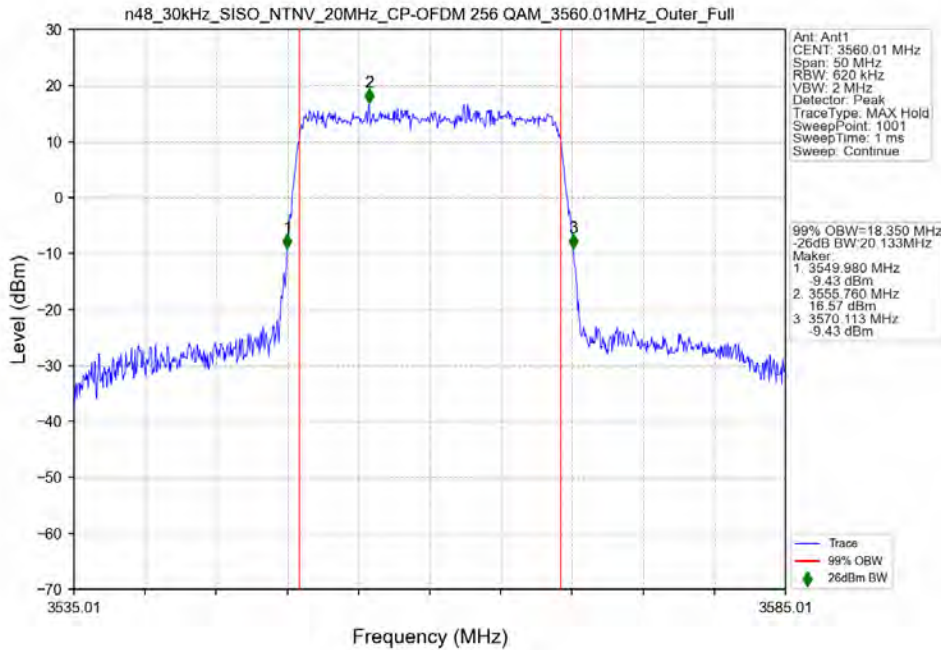
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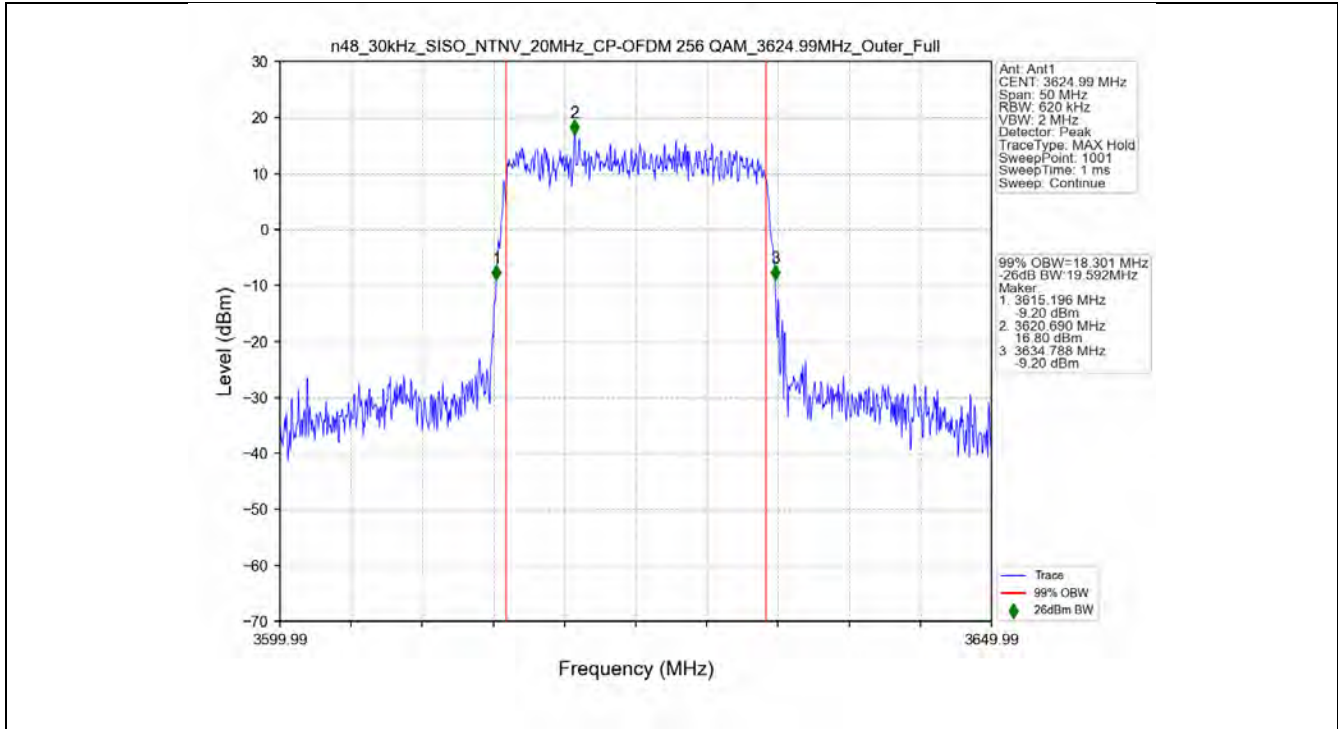


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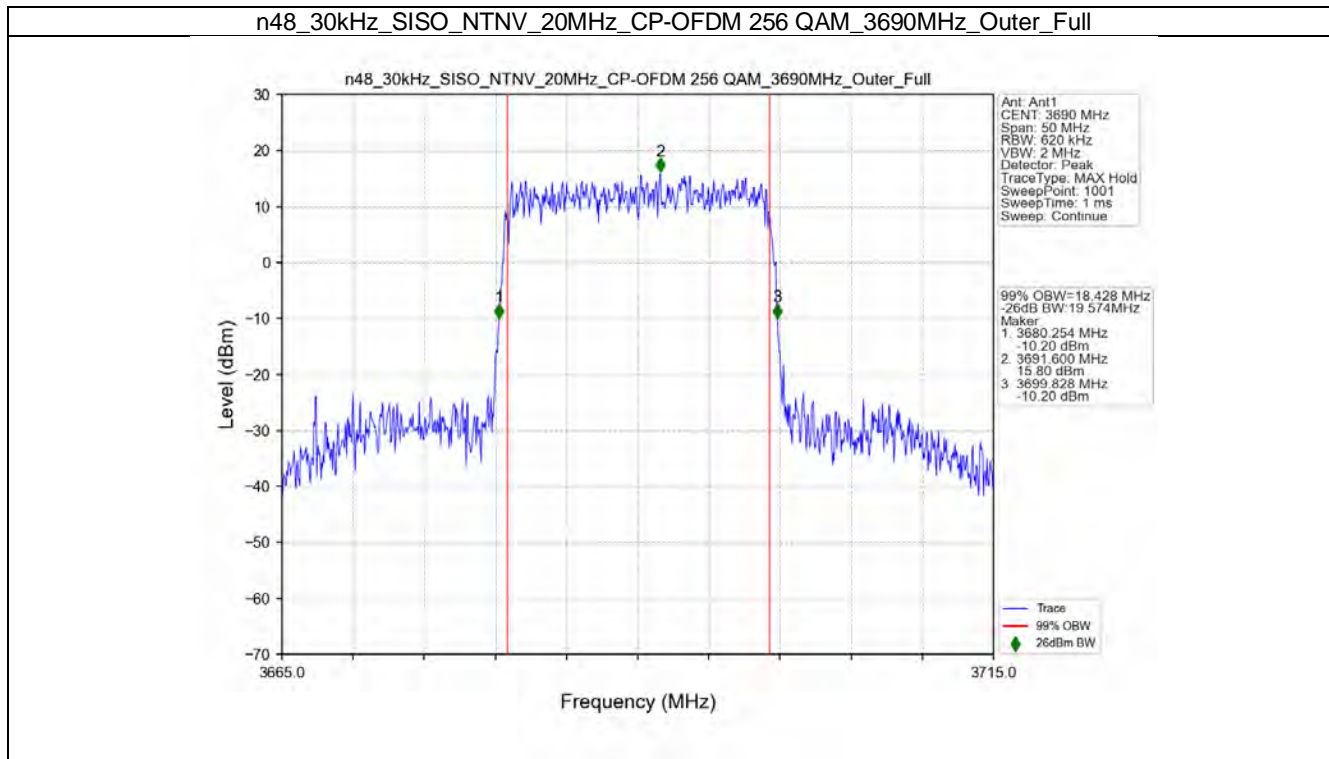
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3.3 30k_SISO_40MHz_NTNV

3.3.1 Test Result

5G NR n48 SCS=30kHz SISO 40MHz NNTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3570	Outer_Full	35.76	38.19	/	Pass
	3624.99	Outer_Full	36.13	38.20	/	Pass
	3679.98	Outer_Full	36.02	38.56	/	Pass
DFT-s-OFDM QPSK	3570	Outer_Full	36.07	38.44	/	Pass
	3624.99	Outer_Full	36.12	38.60	/	Pass
	3679.98	Outer_Full	36.06	38.57	/	Pass
DFT-s-OFDM 16 QAM	3570	Outer_Full	36.01	38.46	/	Pass
	3624.99	Outer_Full	35.92	38.48	/	Pass
	3679.98	Outer_Full	36.03	38.29	/	Pass
DFT-s-OFDM 64 QAM	3570	Outer_Full	36.12	38.56	/	Pass
	3624.99	Outer_Full	36.02	38.41	/	Pass
	3679.98	Outer_Full	35.89	38.50	/	Pass
DFT-s-OFDM 256 QAM	3570	Outer_Full	35.87	38.41	/	Pass
	3624.99	Outer_Full	36.14	38.59	/	Pass
	3679.98	Outer_Full	36.01	38.43	/	Pass
CP-OFDM QPSK	3570	Outer_Full	38.12	40.50	/	Pass
	3624.99	Outer_Full	38.19	40.46	/	Pass
	3679.98	Outer_Full	38.08	40.37	/	Pass
CP-OFDM 16 QAM	3570	Outer_Full	38.20	40.83	/	Pass
	3624.99	Outer_Full	38.12	40.48	/	Pass
	3679.98	Outer_Full	38.10	40.62	/	Pass
CP-OFDM 64 QAM	3570	Outer_Full	38.28	40.50	/	Pass
	3624.99	Outer_Full	38.02	40.46	/	Pass
	3679.98	Outer_Full	37.92	40.68	/	Pass
CP-OFDM 256 QAM	3570	Outer_Full	38.70	40.59	/	Pass
	3624.99	Outer_Full	38.15	40.70	/	Pass
	3679.98	Outer_Full	38.27	40.69	/	Pass



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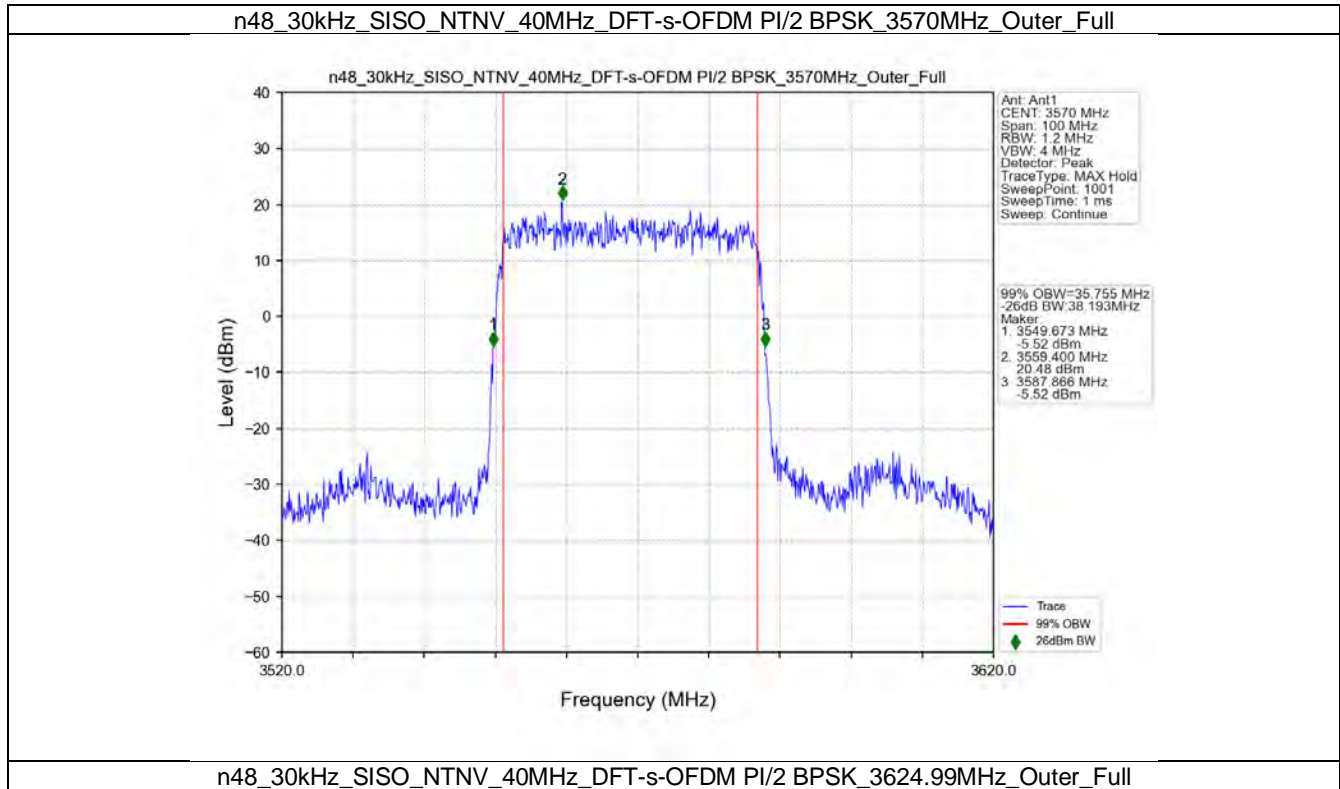
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3.3.2 Test Graph



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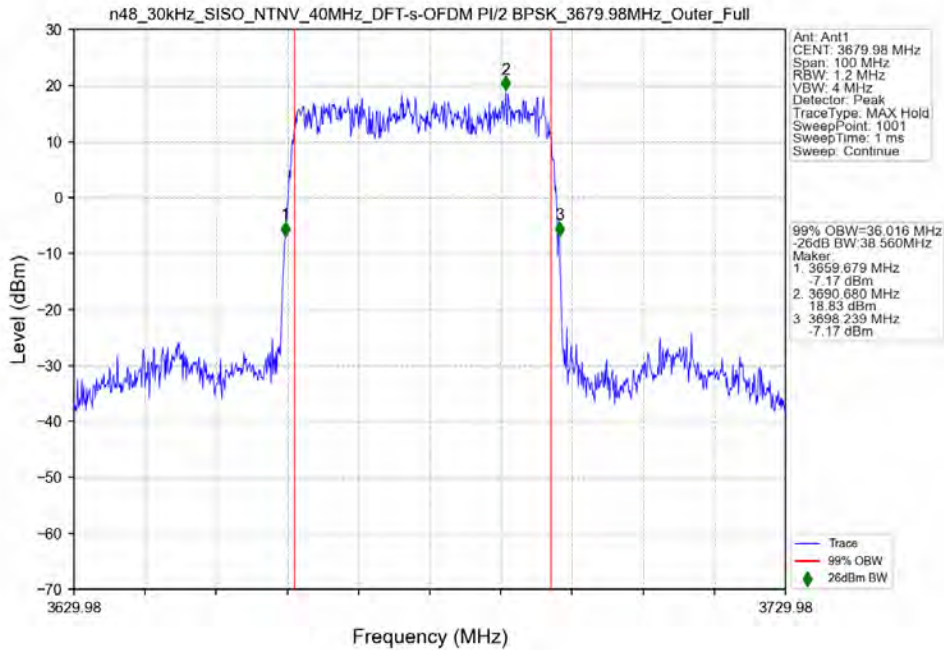
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_3679.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3570MHz_Outer_Full



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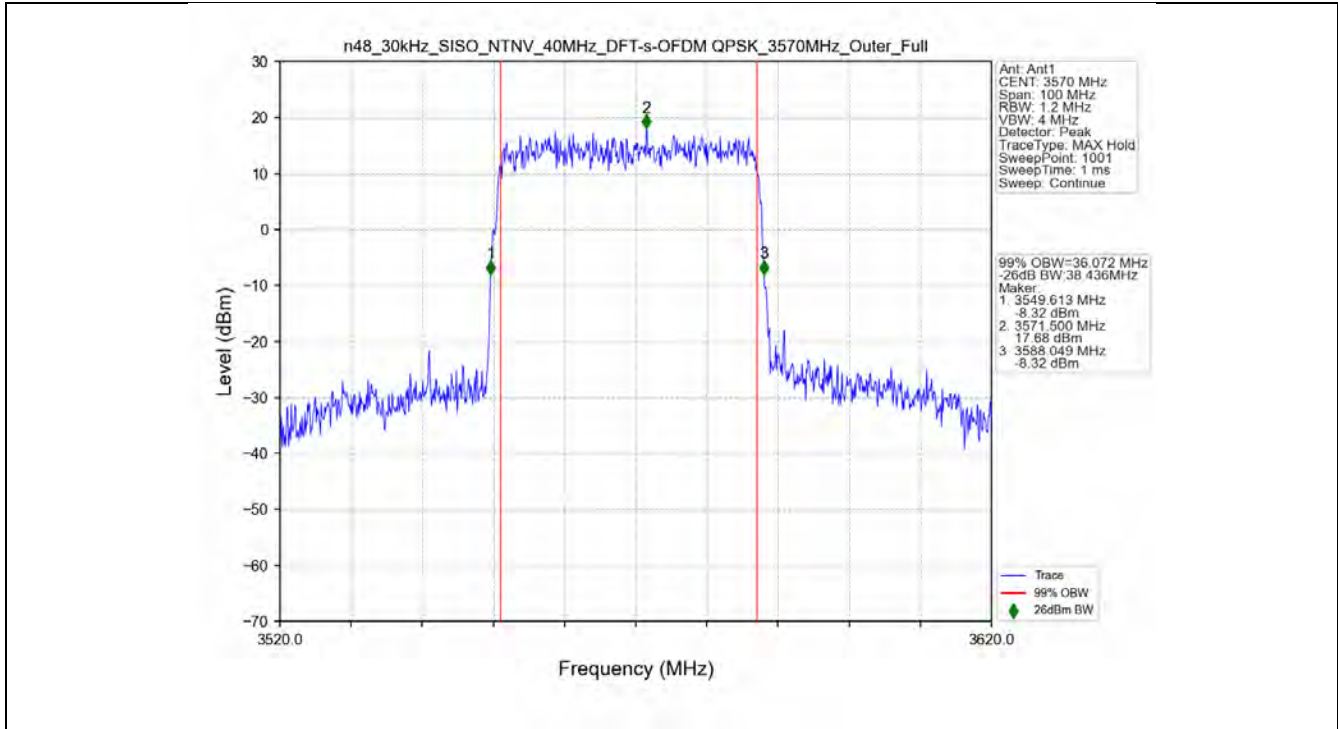


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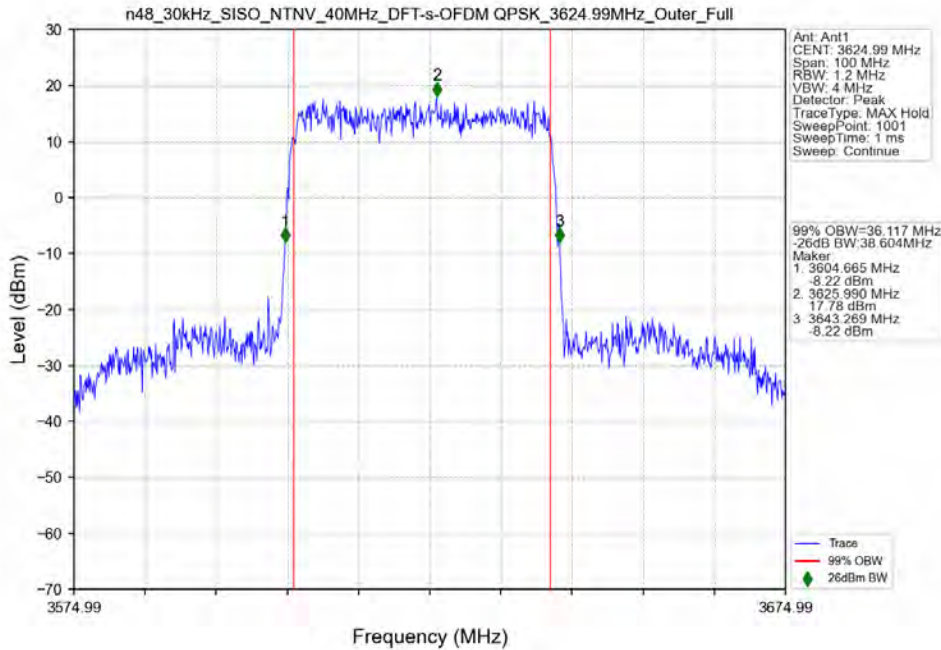
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3679.98MHz_Outer_Full



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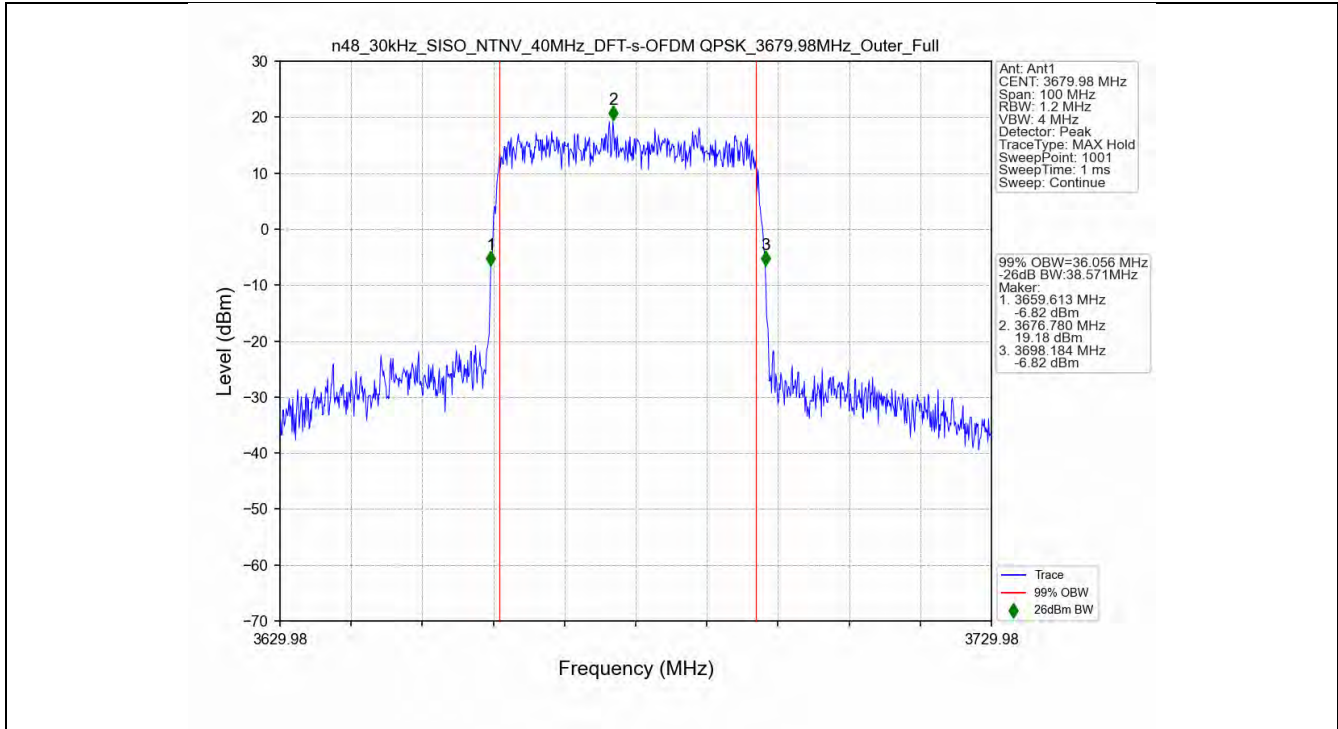


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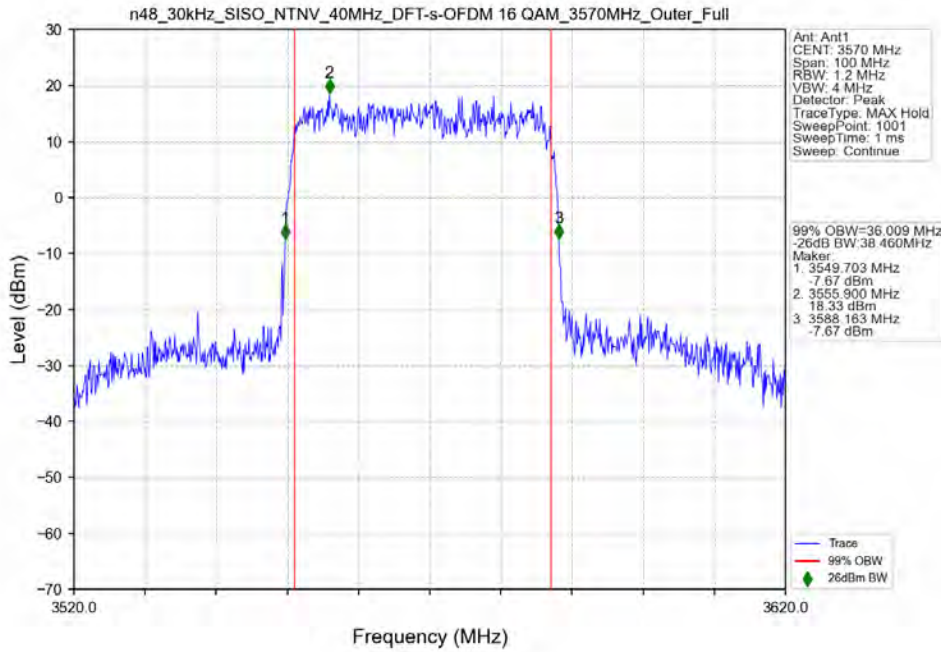
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n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_3570MHz_Outer_Full



n48_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_3624.99MHz_Outer_Full



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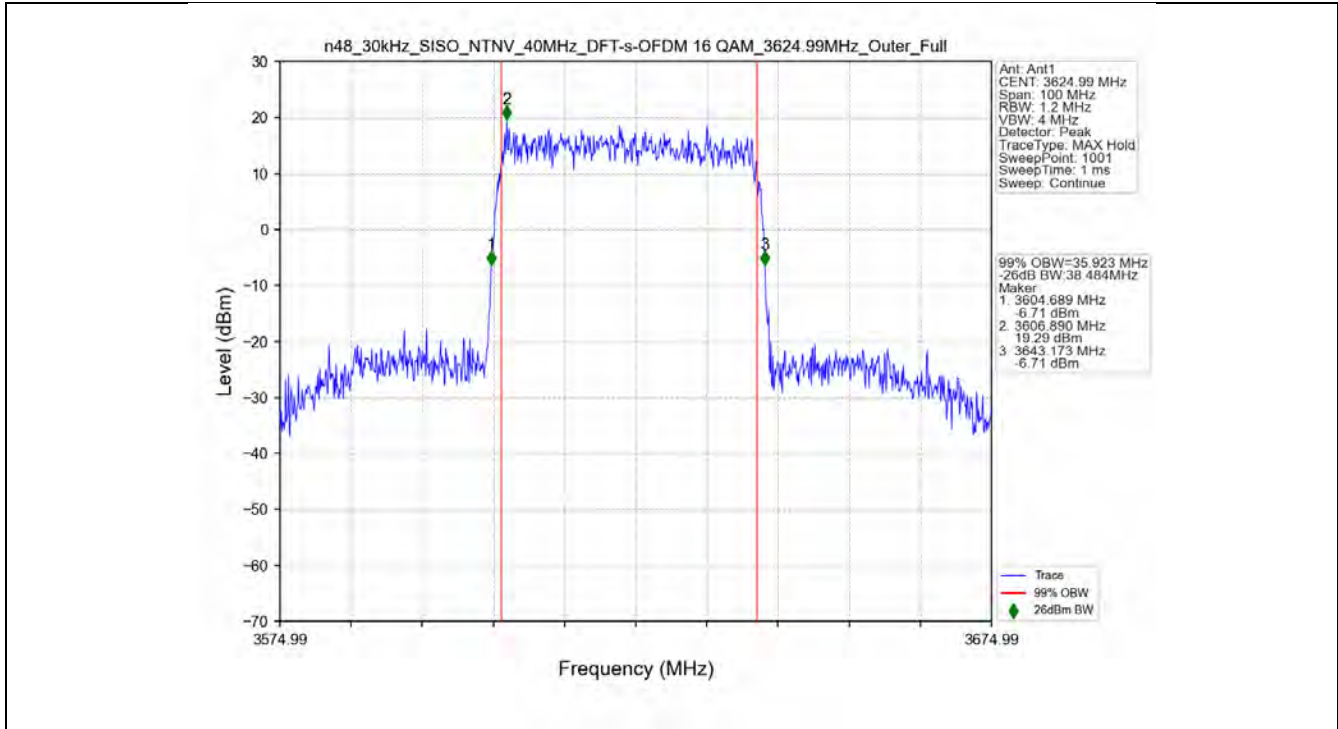


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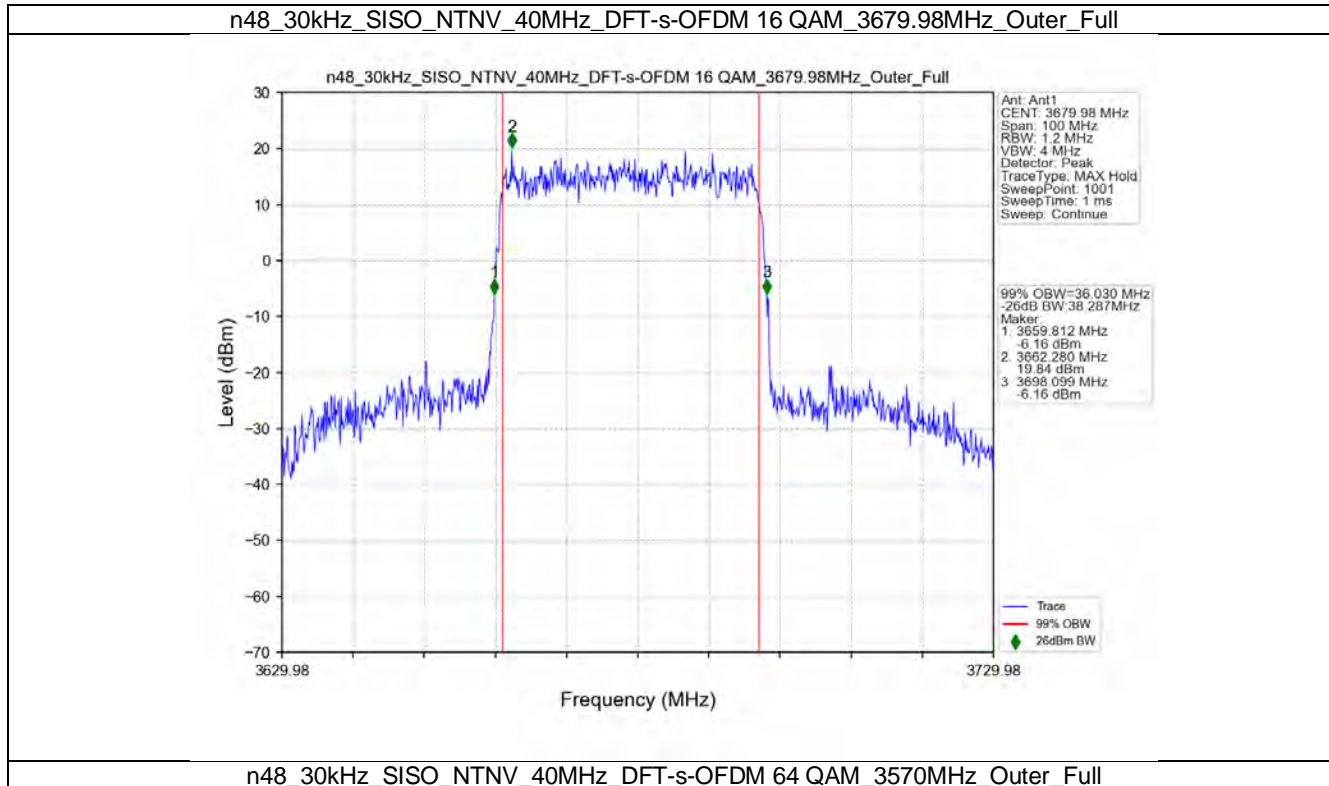
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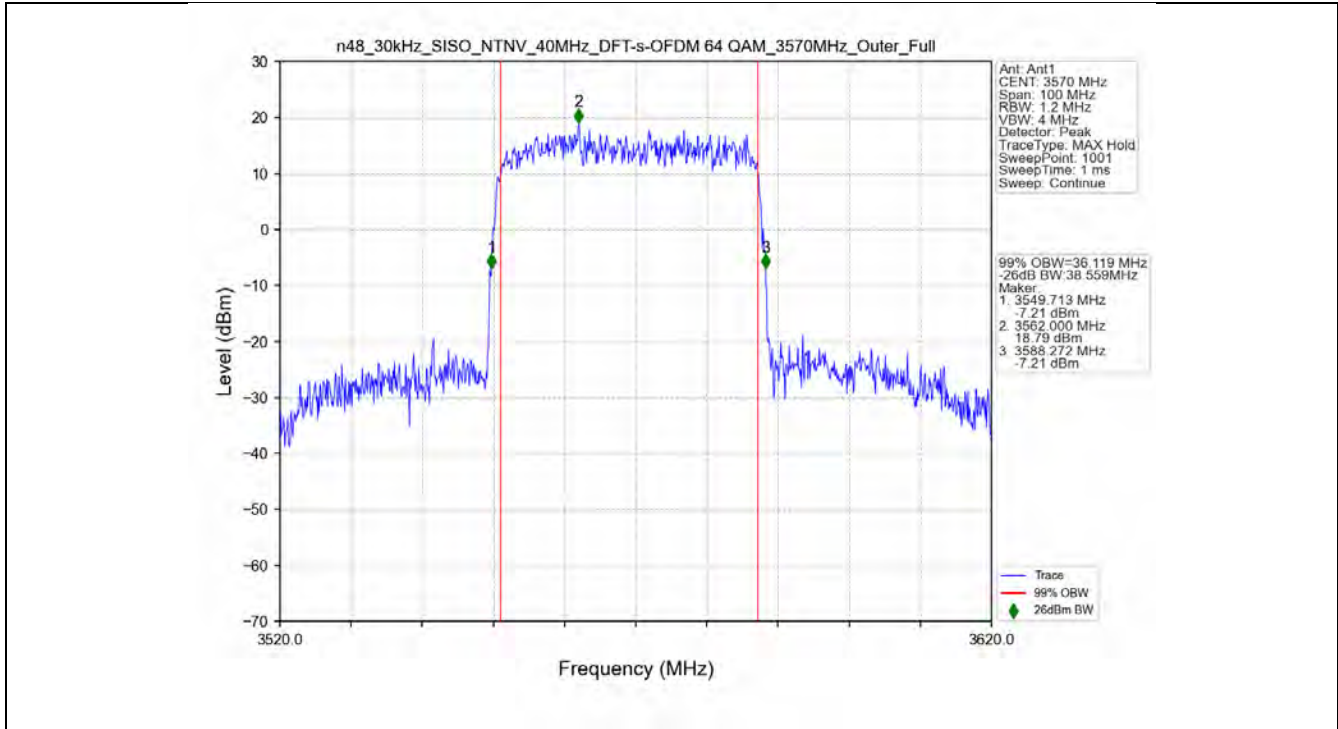


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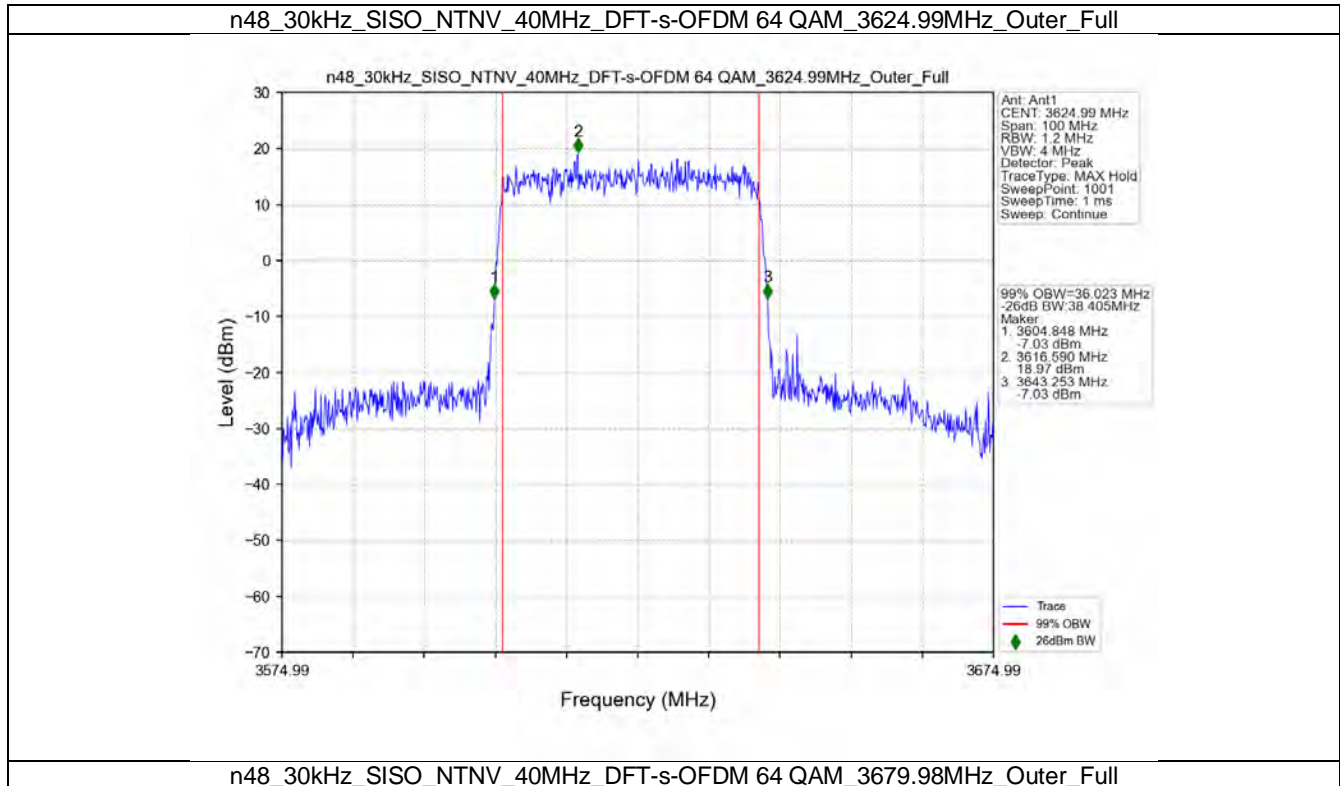


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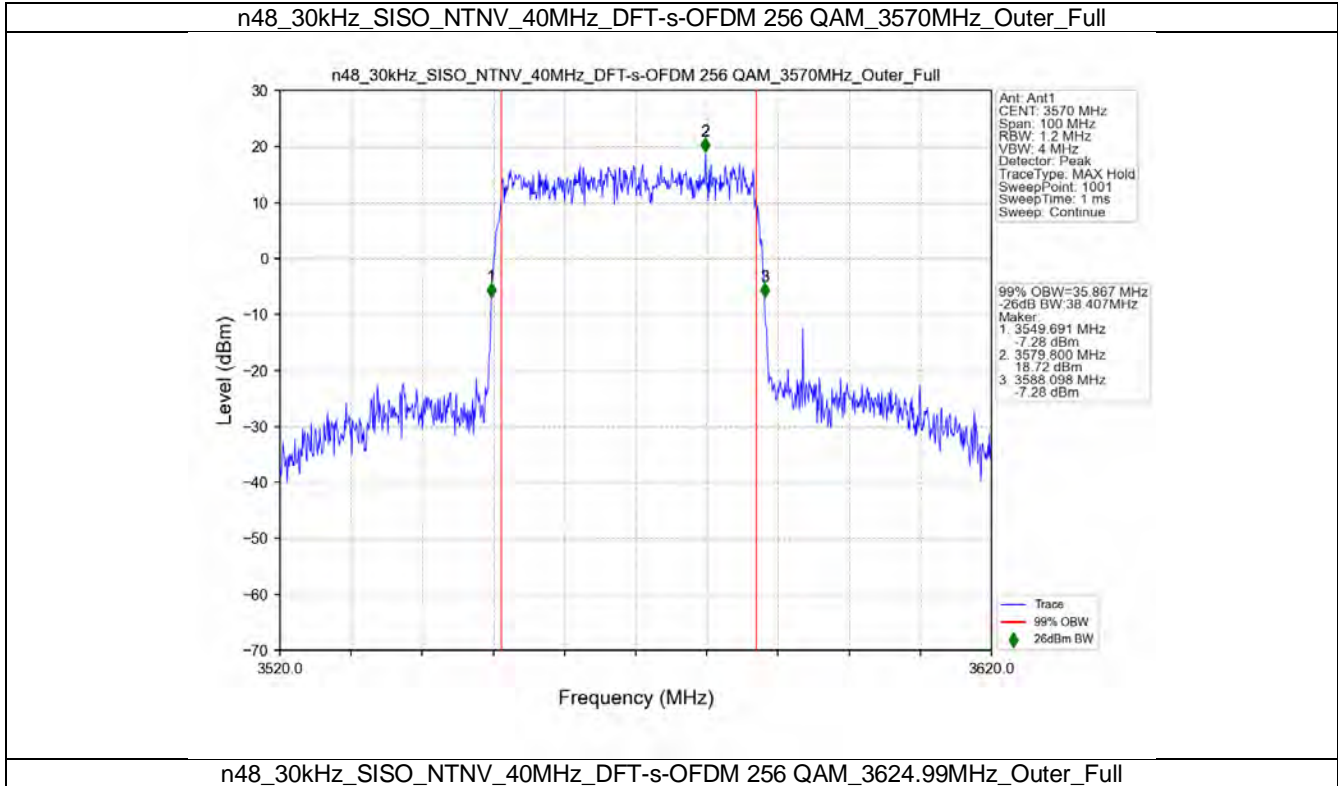


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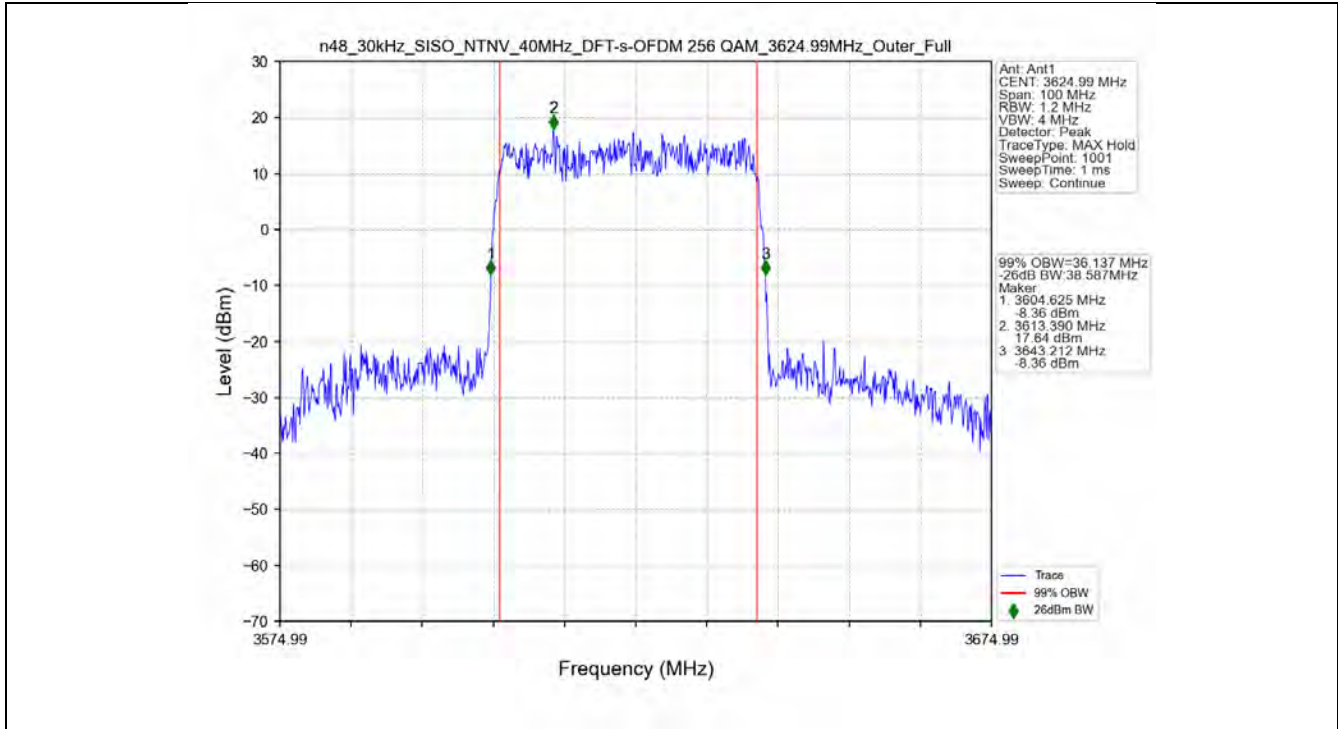


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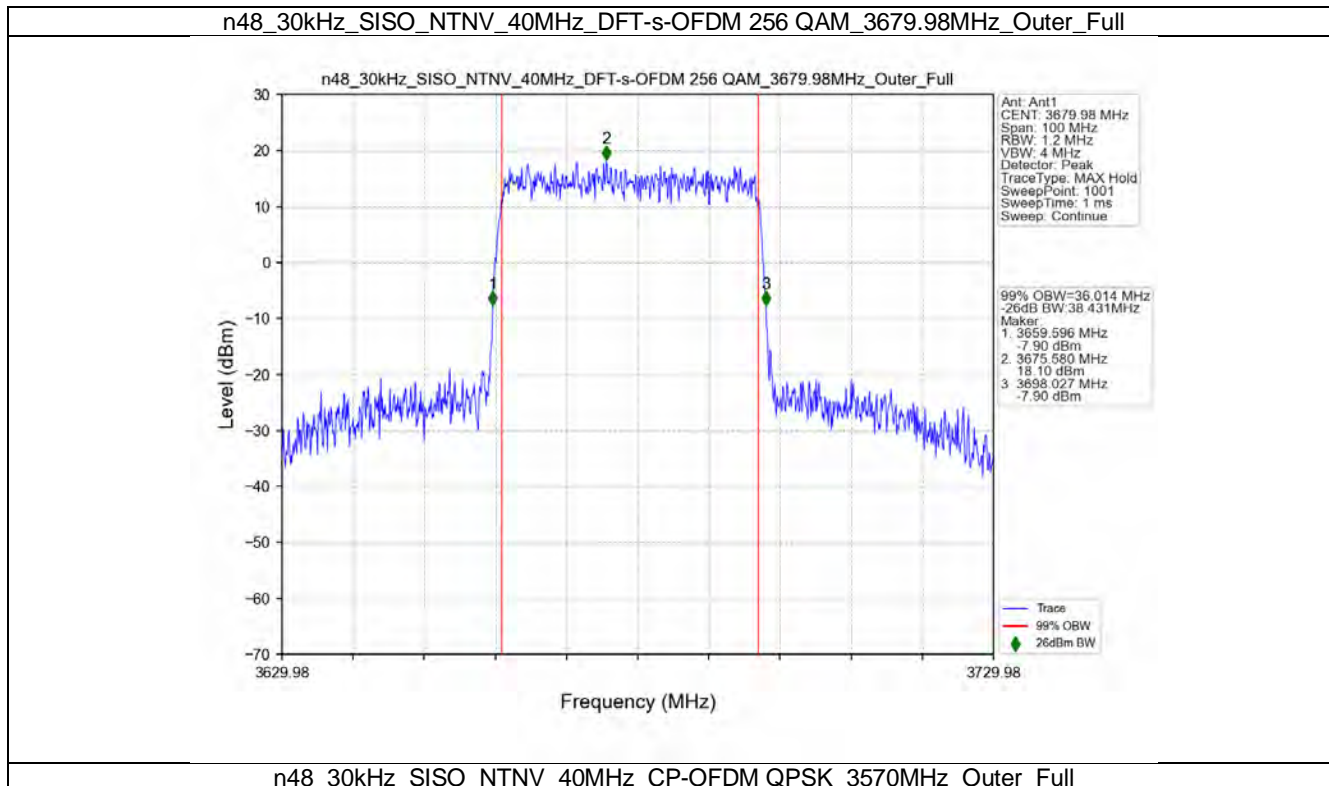
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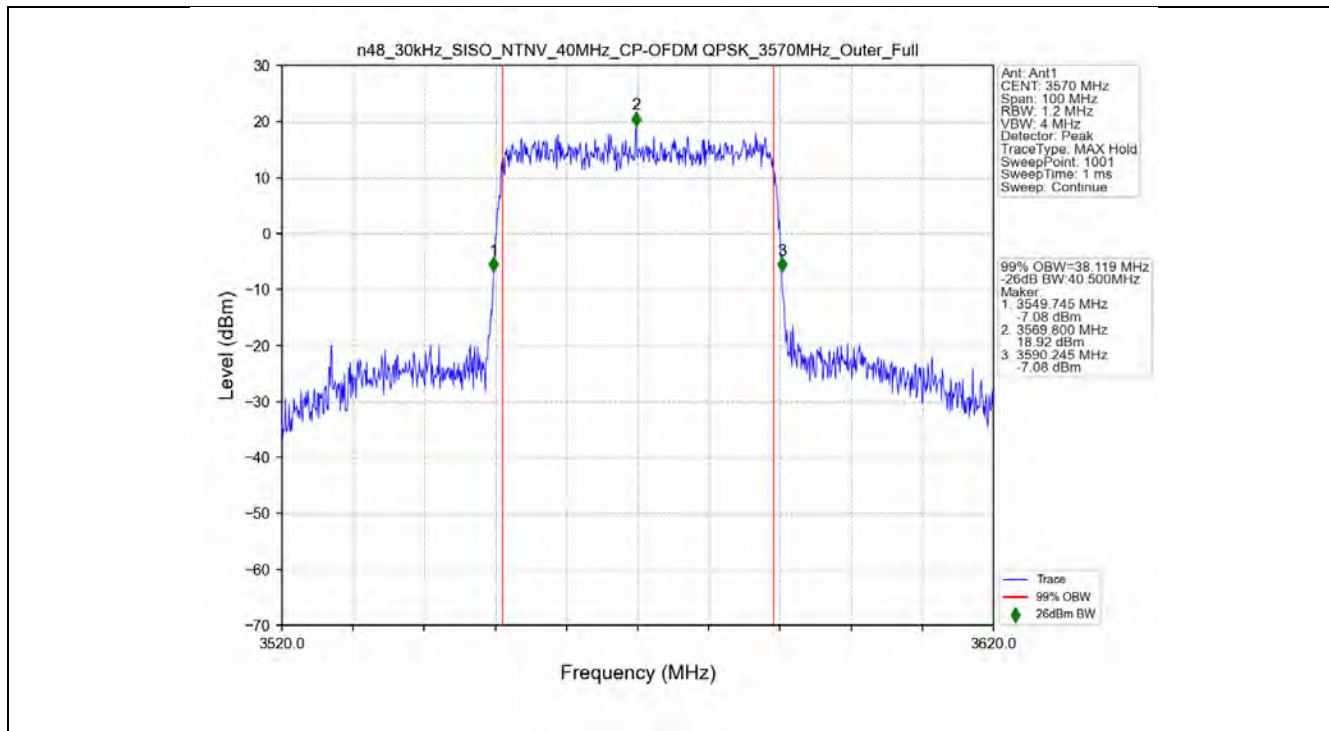
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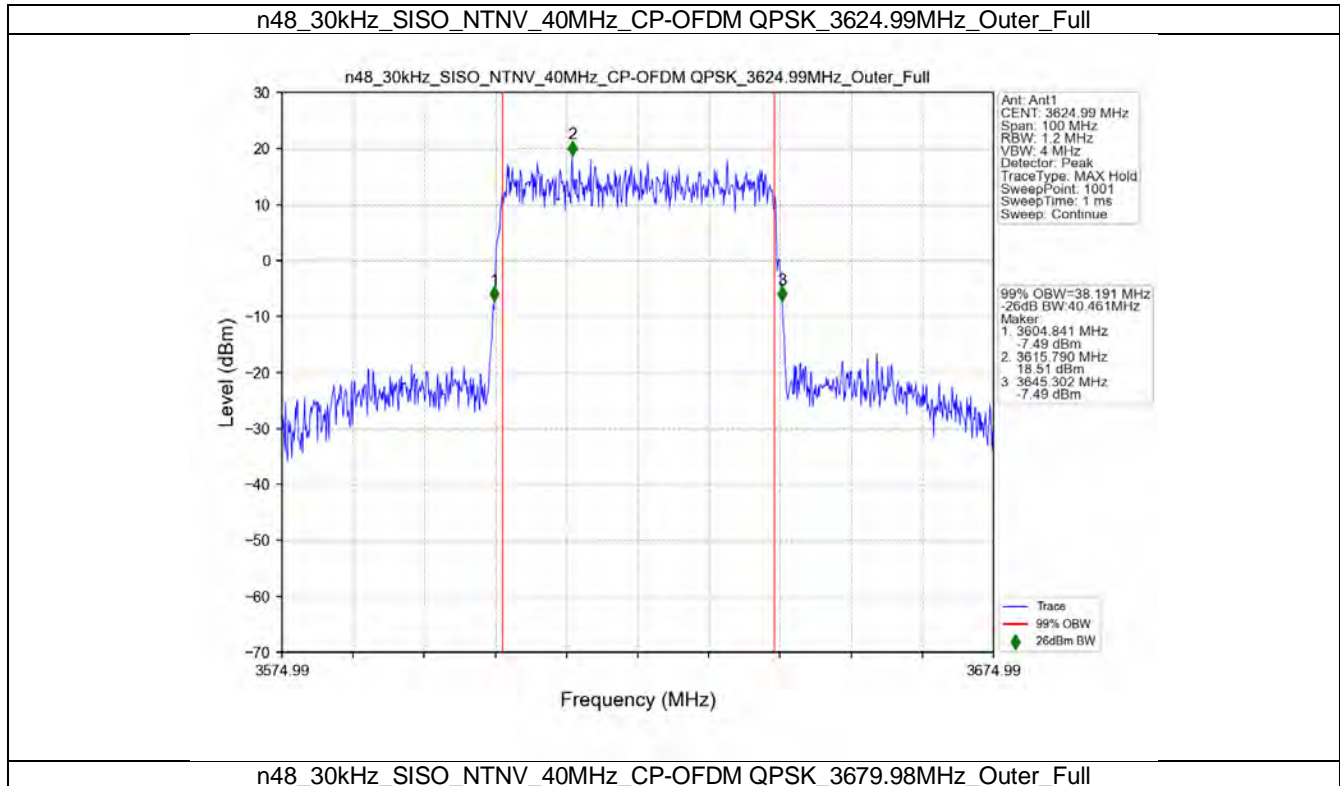


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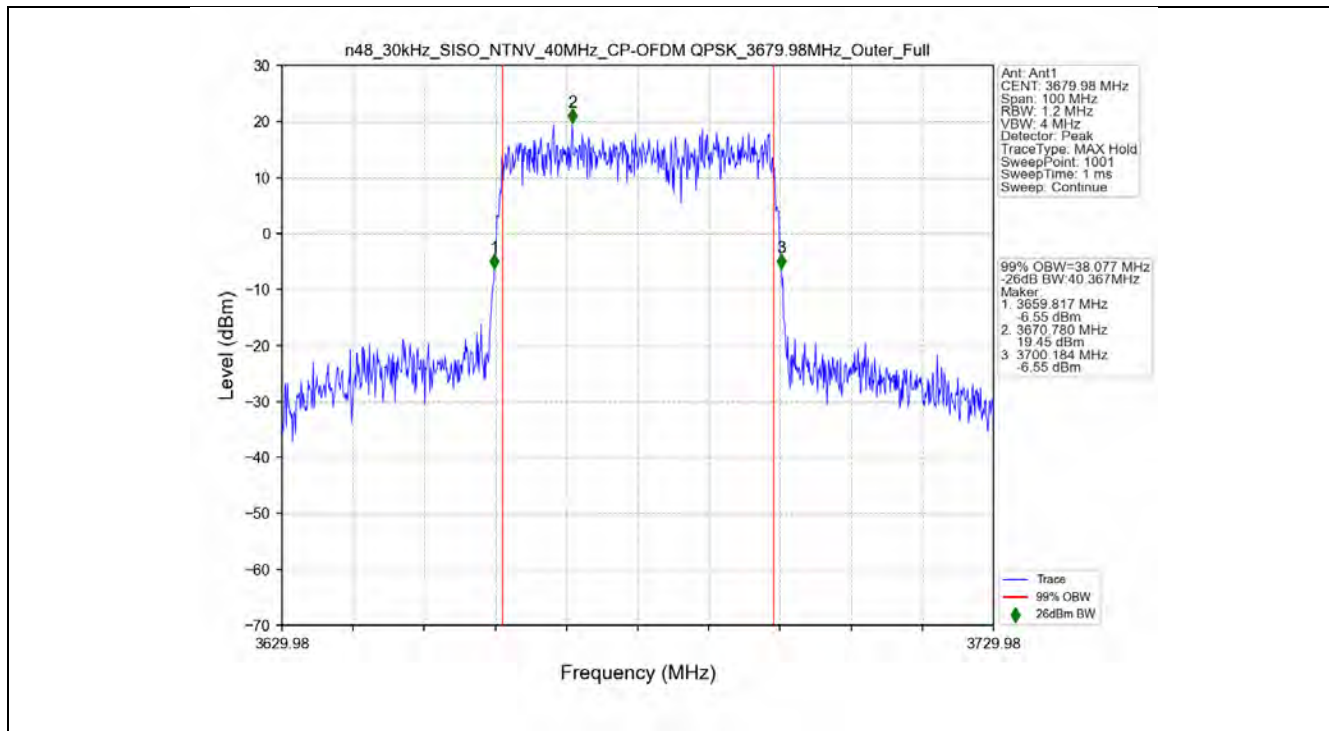
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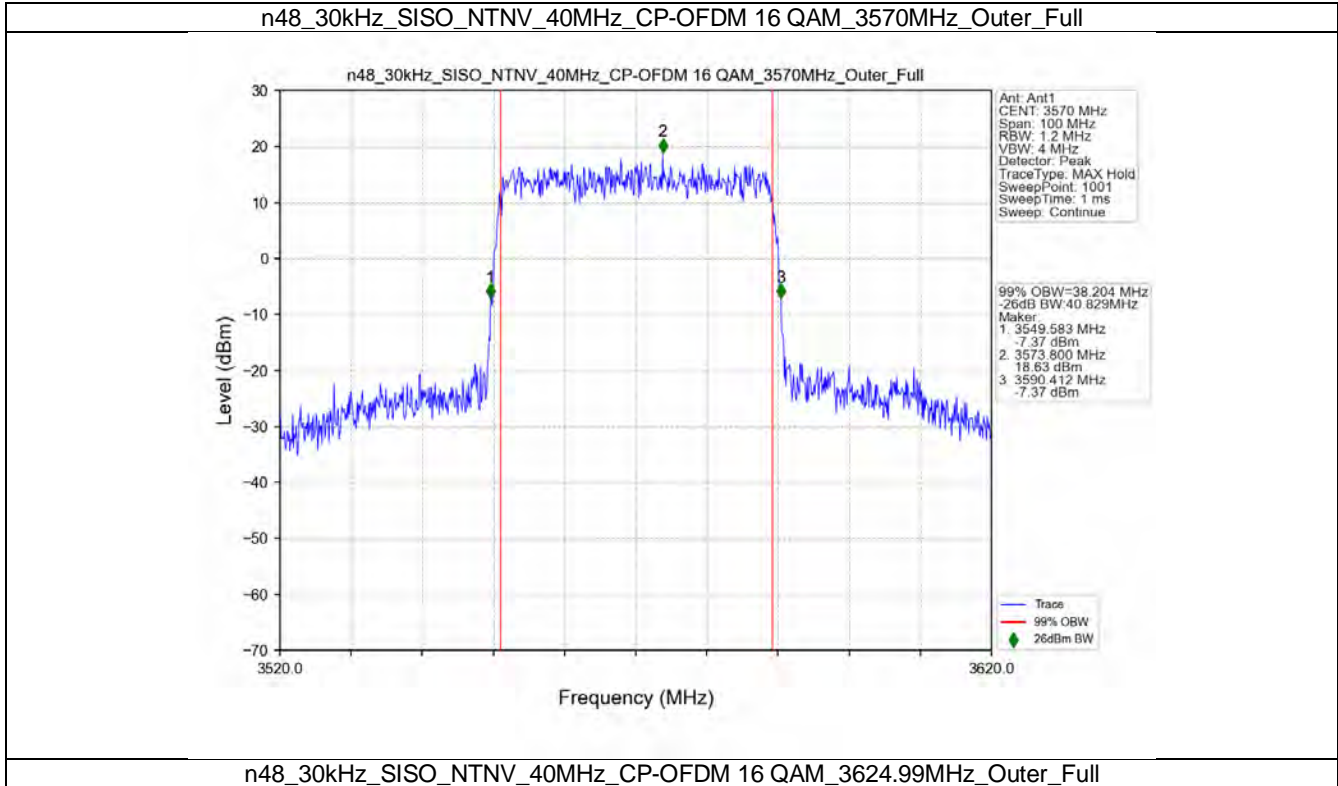


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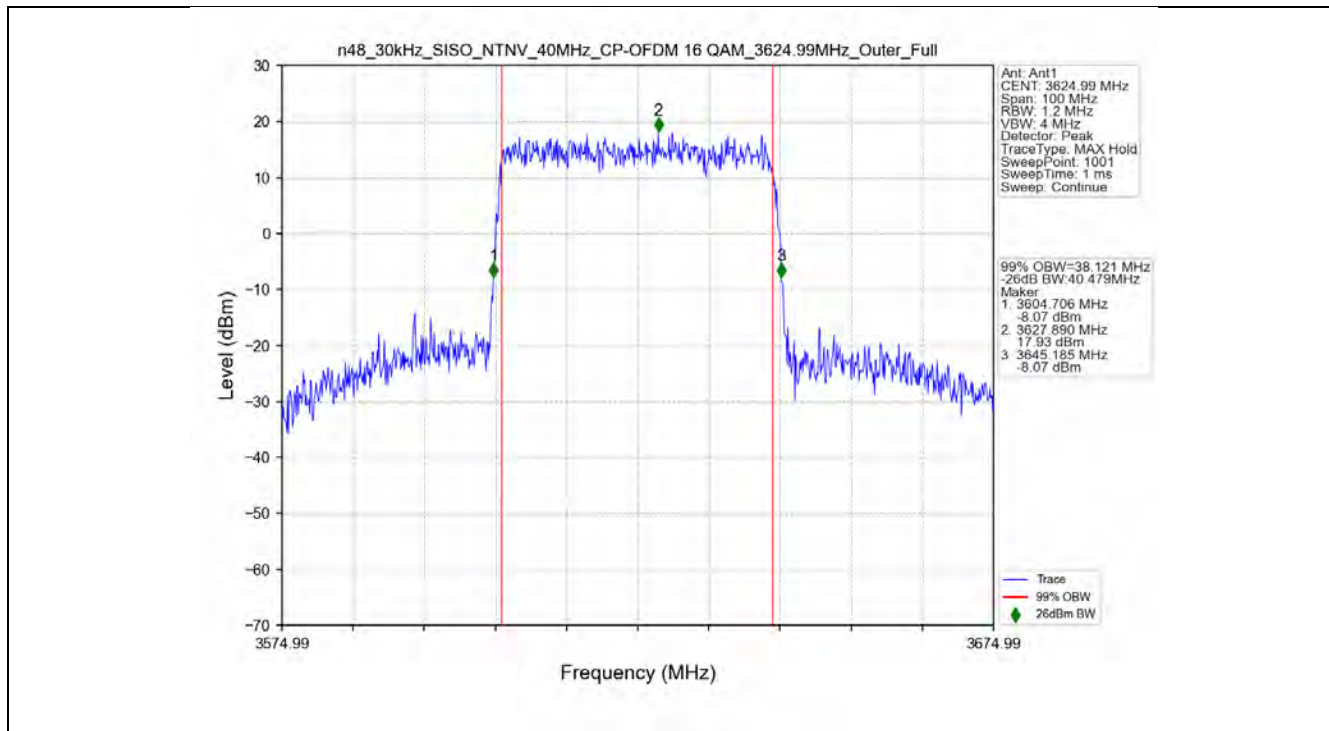
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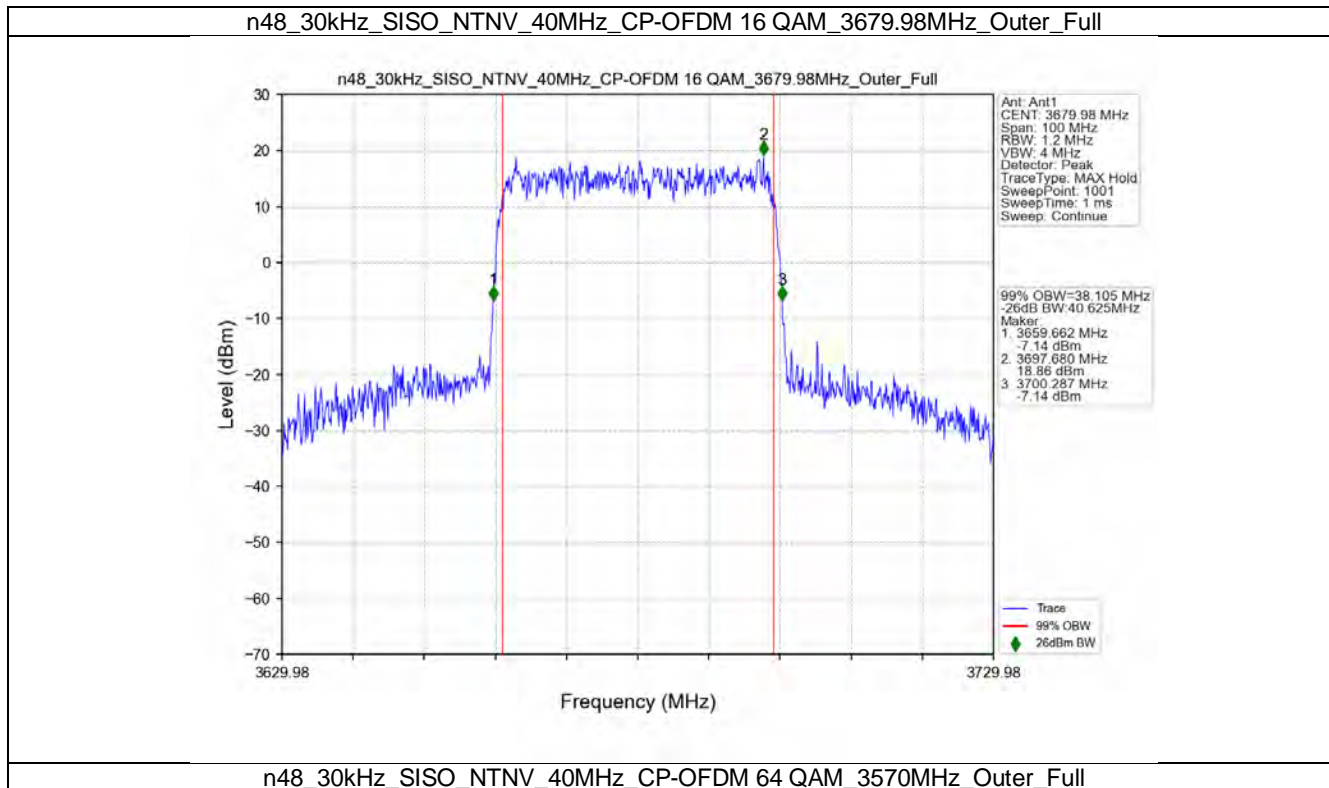
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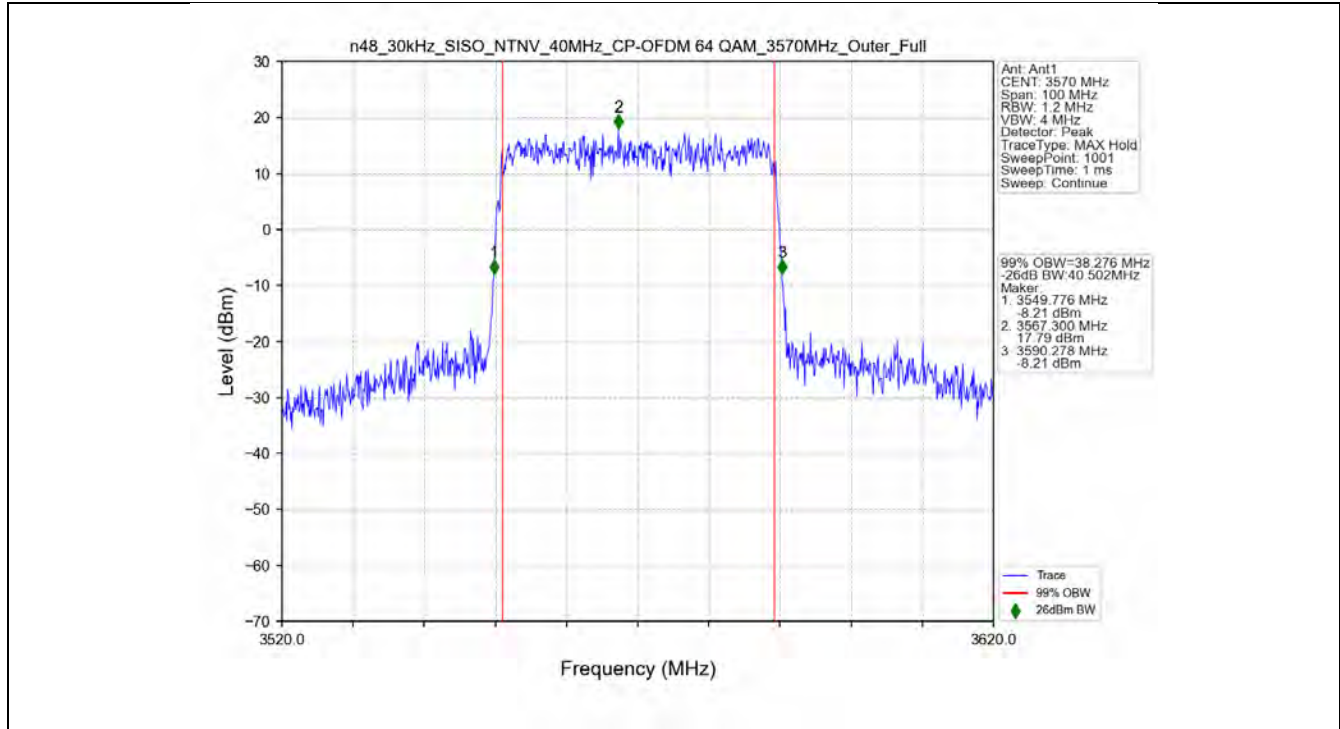


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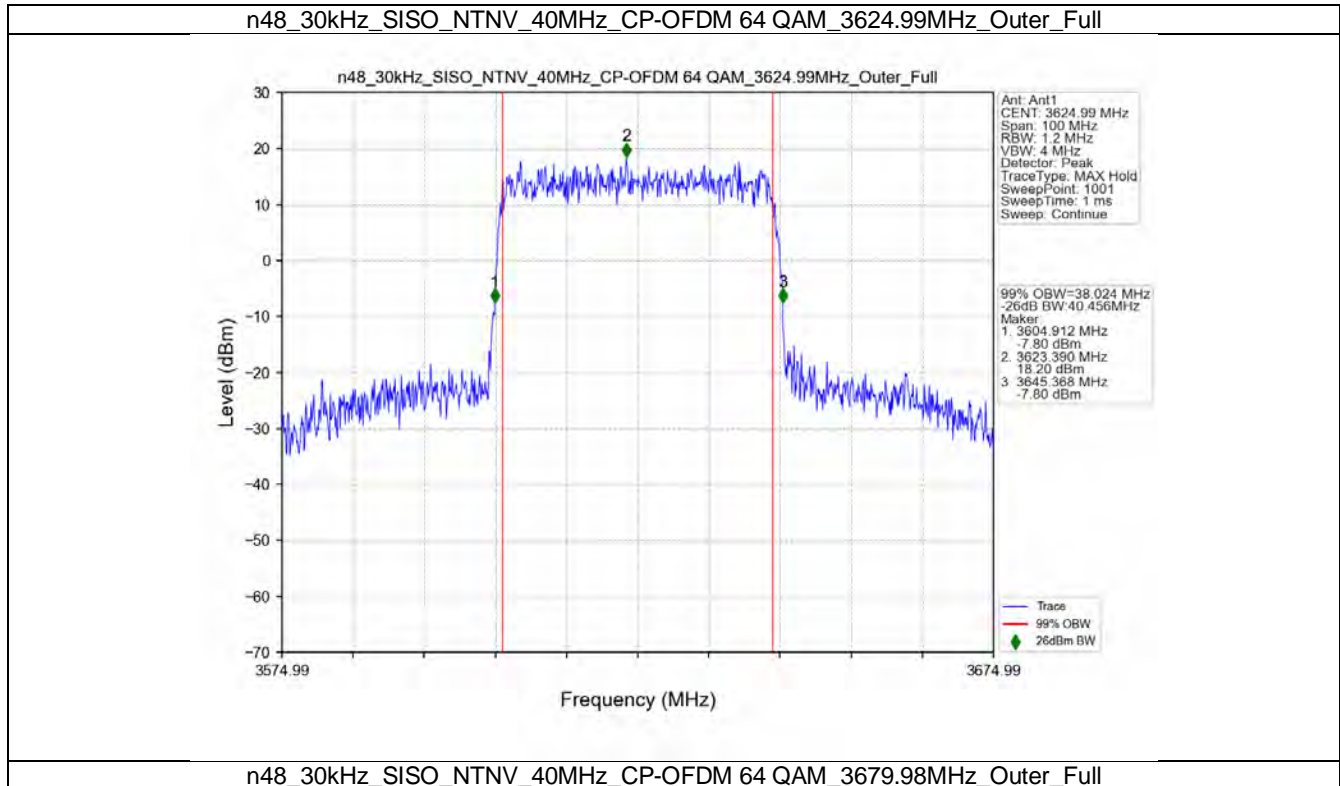


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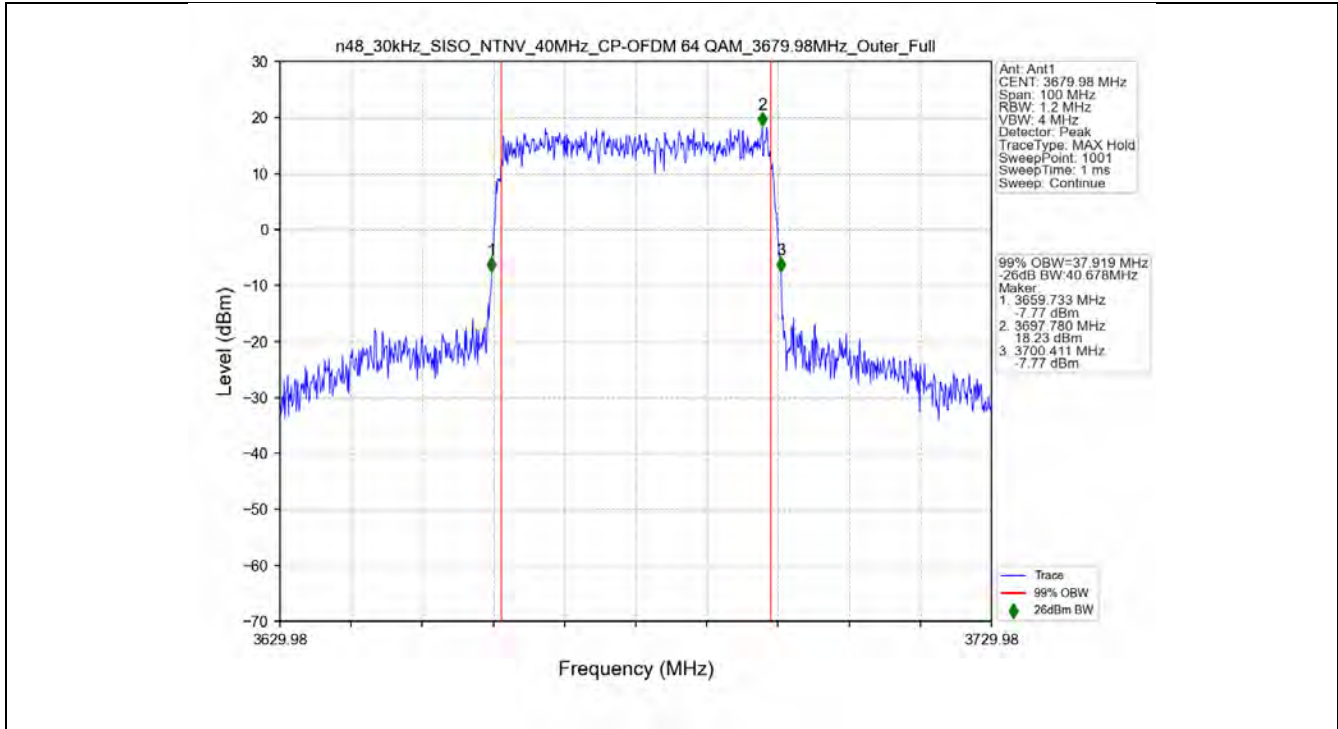


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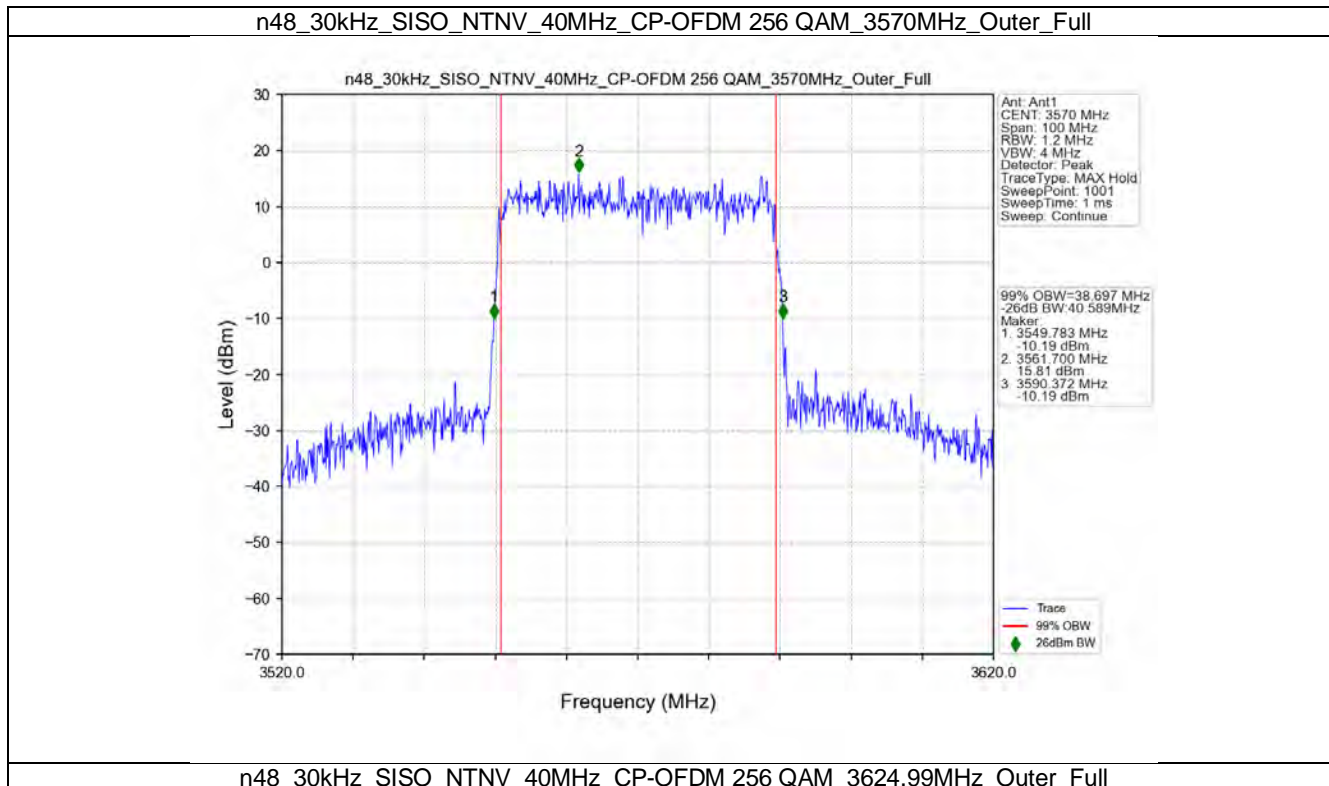
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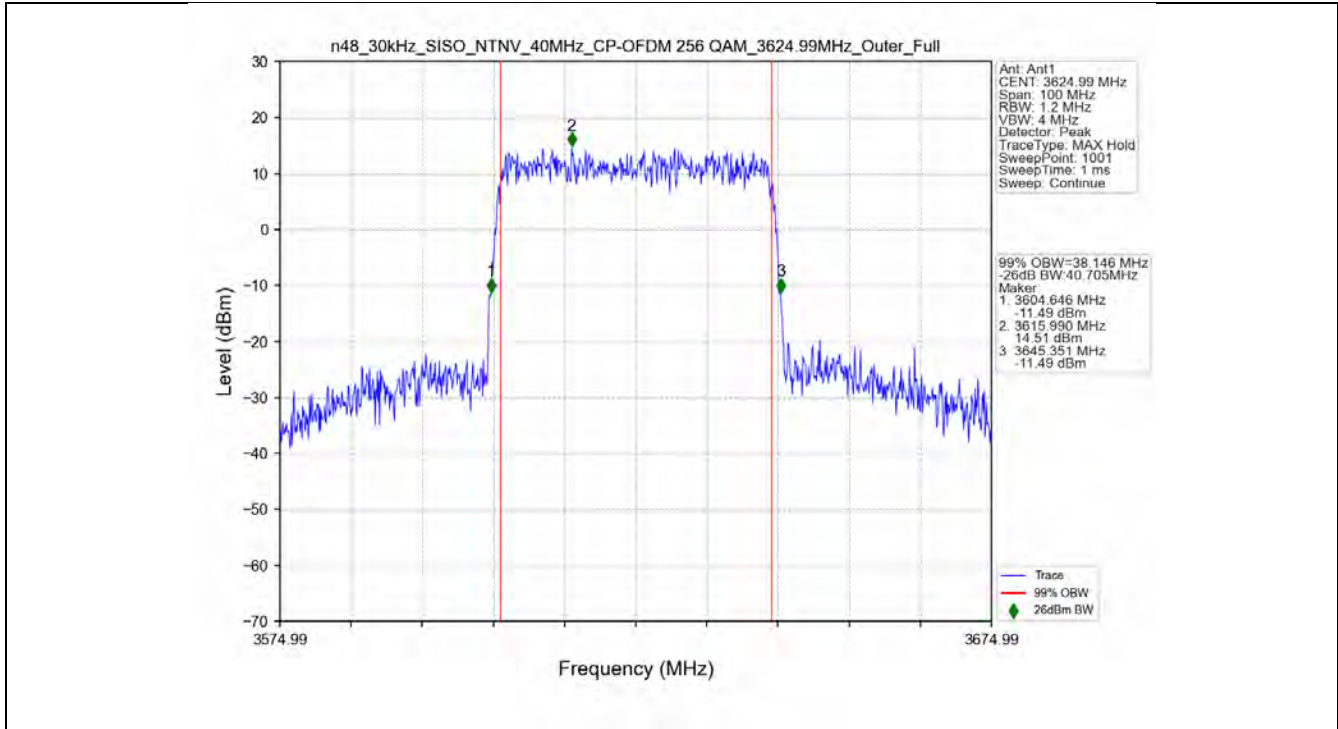


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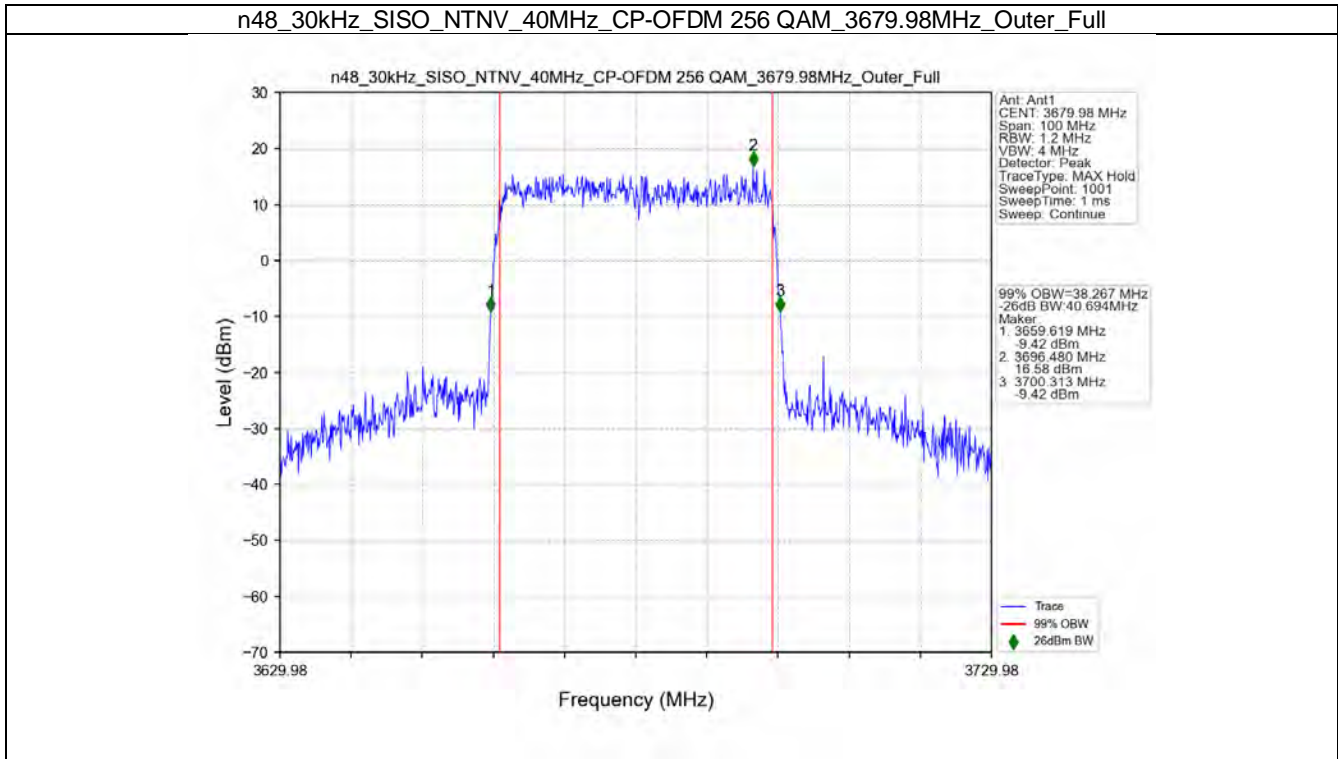


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4. Peak-Average Ratio

4.1 30k_SISO_10MHz_NTNV

4.1.1 Test Result

5G NR n48 SCS=30kHz SISO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)			Limit	Verdict
			Ant1	Ant4	Sum		
DFT-s-OFDM PI/2 BPSK	3555	Outer_Full	8.08	/	/	<=13	Pass
	3624.99	Outer_Full	8.55	/	/	<=13	Pass
	3694.98	Outer_Full	8.70	/	/	<=13	Pass
DFT-s-OFDM QPSK	3555	Outer_Full	9.13	/	/	<=13	Pass
	3624.99	Outer_Full	9.69	/	/	<=13	Pass
	3694.98	Outer_Full	8.99	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3555	Outer_Full	10.82	/	/	<=13	Pass
	3624.99	Outer_Full	10.15	/	/	<=13	Pass
	3694.98	Outer_Full	10.04	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3555	Outer_Full	10.24	/	/	<=13	Pass
	3624.99	Outer_Full	10.28	/	/	<=13	Pass
	3694.98	Outer_Full	9.97	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3555	Outer_Full	10.71	/	/	<=13	Pass
	3624.99	Outer_Full	11.21	/	/	<=13	Pass
	3694.98	Outer_Full	10.81	/	/	<=13	Pass
CP-OFDM QPSK	3555	Outer_Full	11.81	/	/	<=13	Pass
	3624.99	Outer_Full	11.69	/	/	<=13	Pass
	3694.98	Outer_Full	11.41	/	/	<=13	Pass
CP-OFDM 16 QAM	3555	Outer_Full	11.73	/	/	<=13	Pass
	3624.99	Outer_Full	11.80	/	/	<=13	Pass
	3694.98	Outer_Full	11.81	/	/	<=13	Pass
CP-OFDM 64 QAM	3555	Outer_Full	11.36	/	/	<=13	Pass
	3624.99	Outer_Full	11.69	/	/	<=13	Pass
	3694.98	Outer_Full	11.21	/	/	<=13	Pass
CP-OFDM 256 QAM	3555	Outer_Full	12.26	/	/	<=13	Pass
	3624.99	Outer_Full	12.34	/	/	<=13	Pass
	3694.98	Outer_Full	12.28	/	/	<=13	Pass



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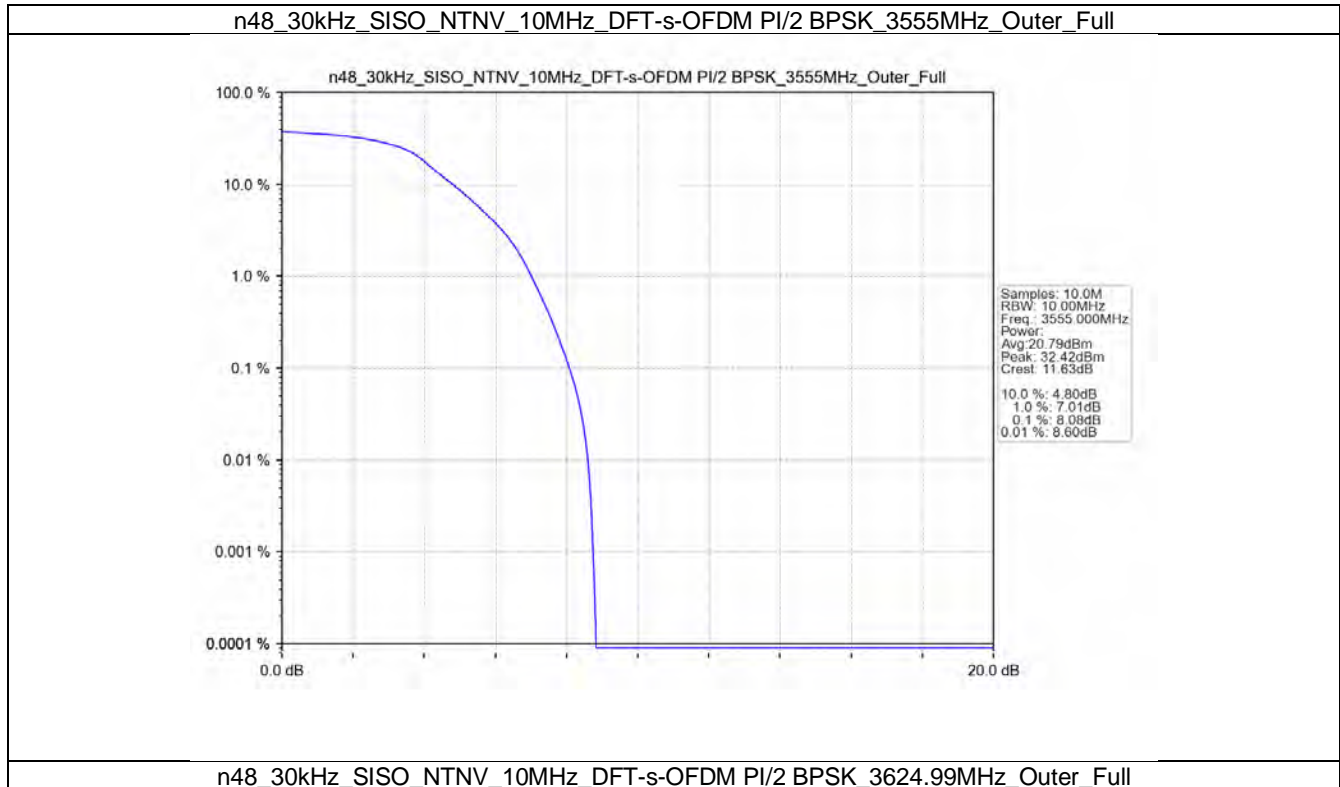
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4.1.2 Test Graph



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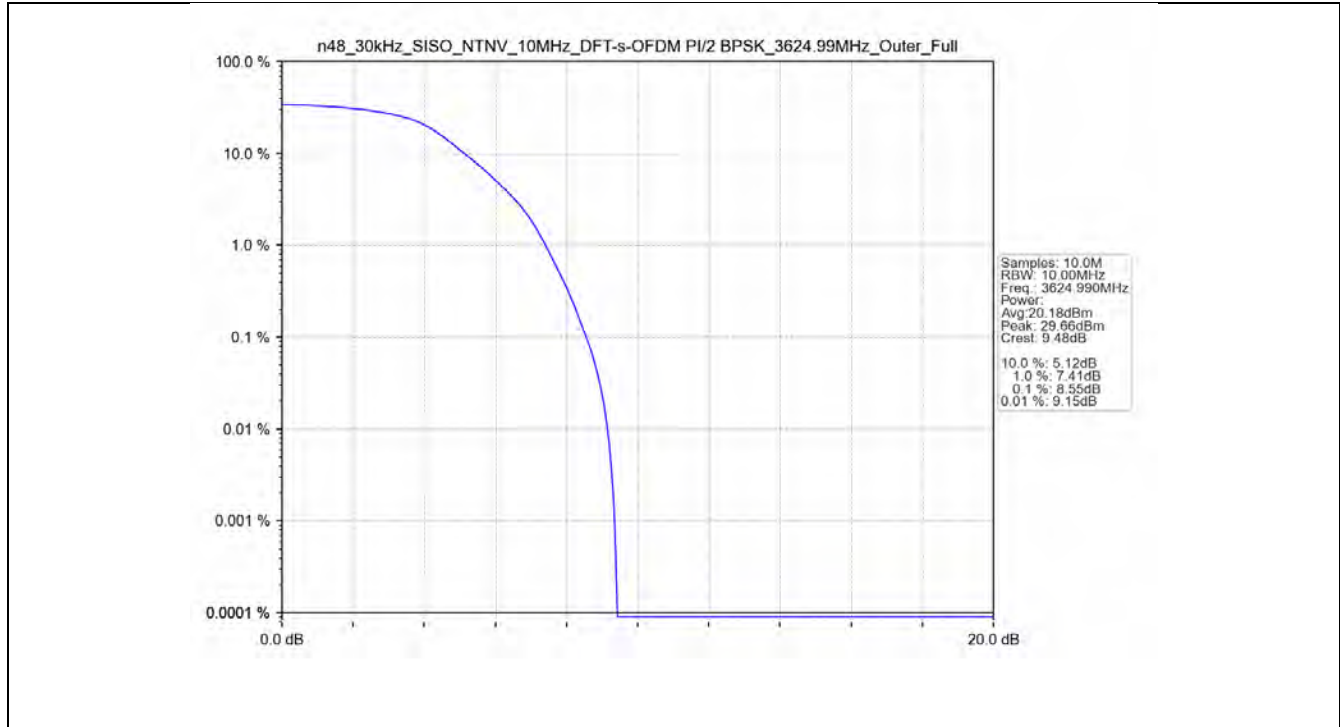


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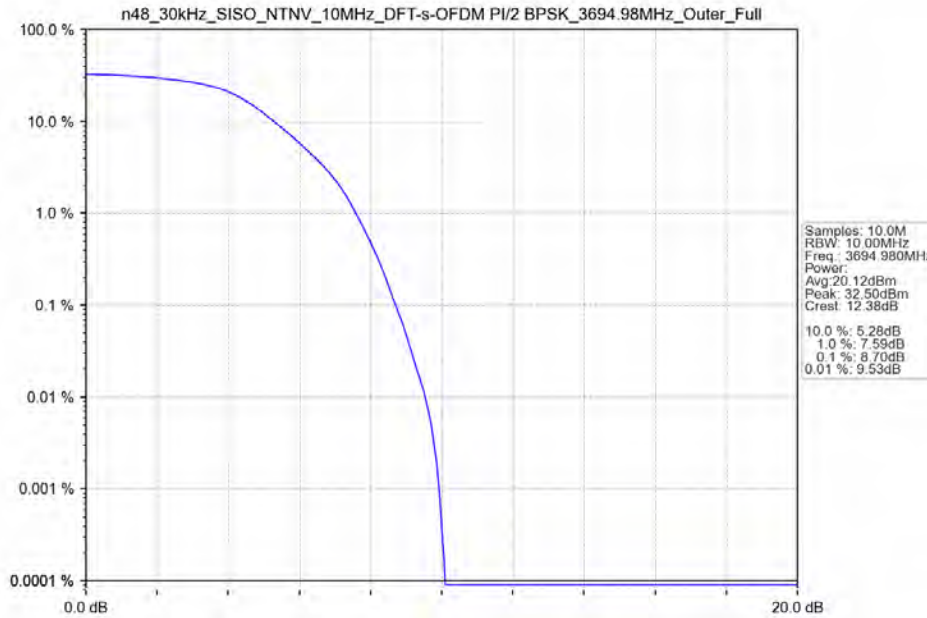
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3694.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3555MHz_Outer_Full



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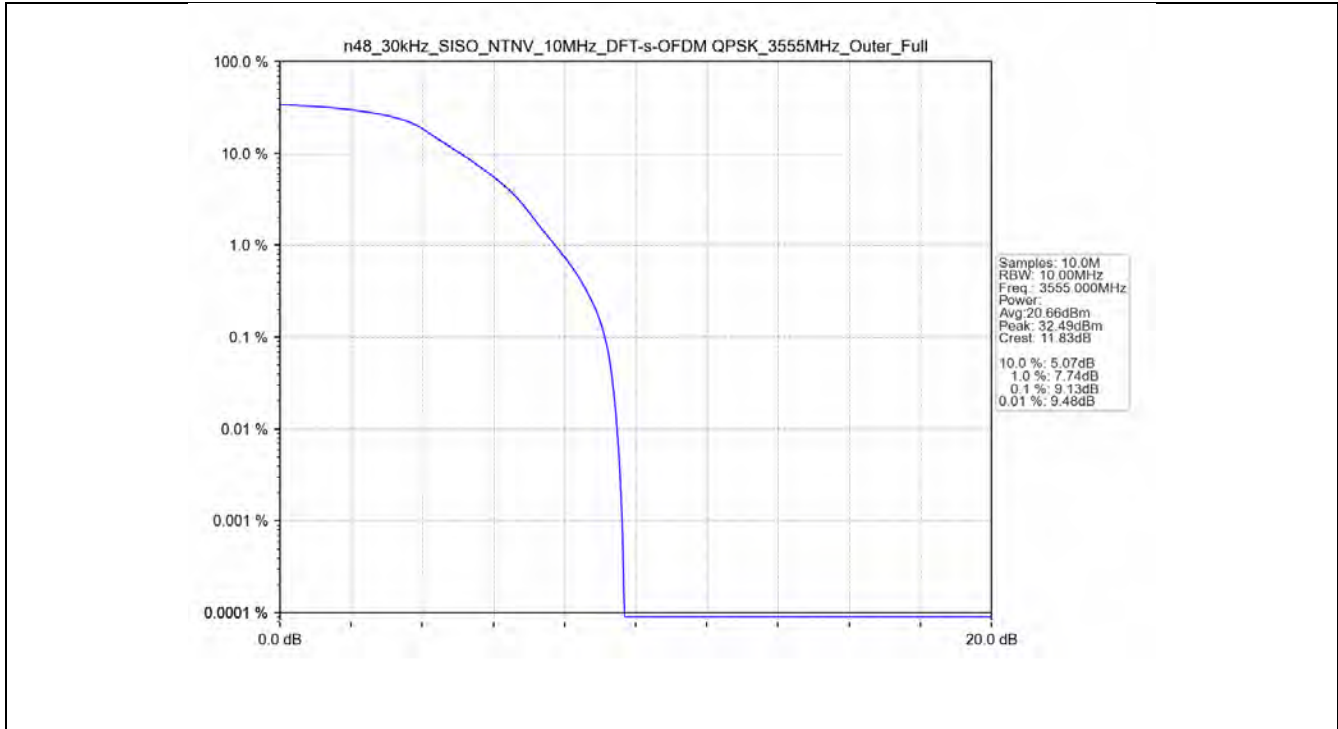


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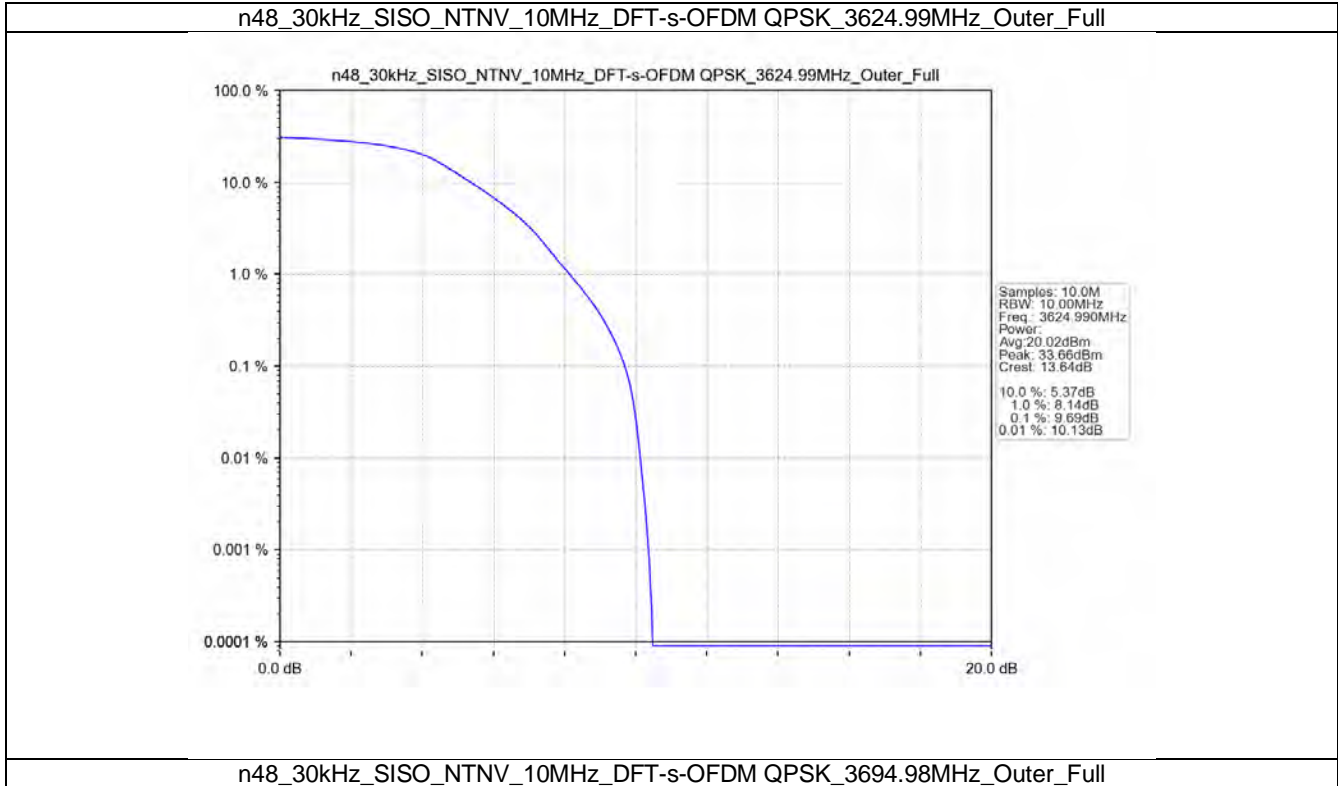


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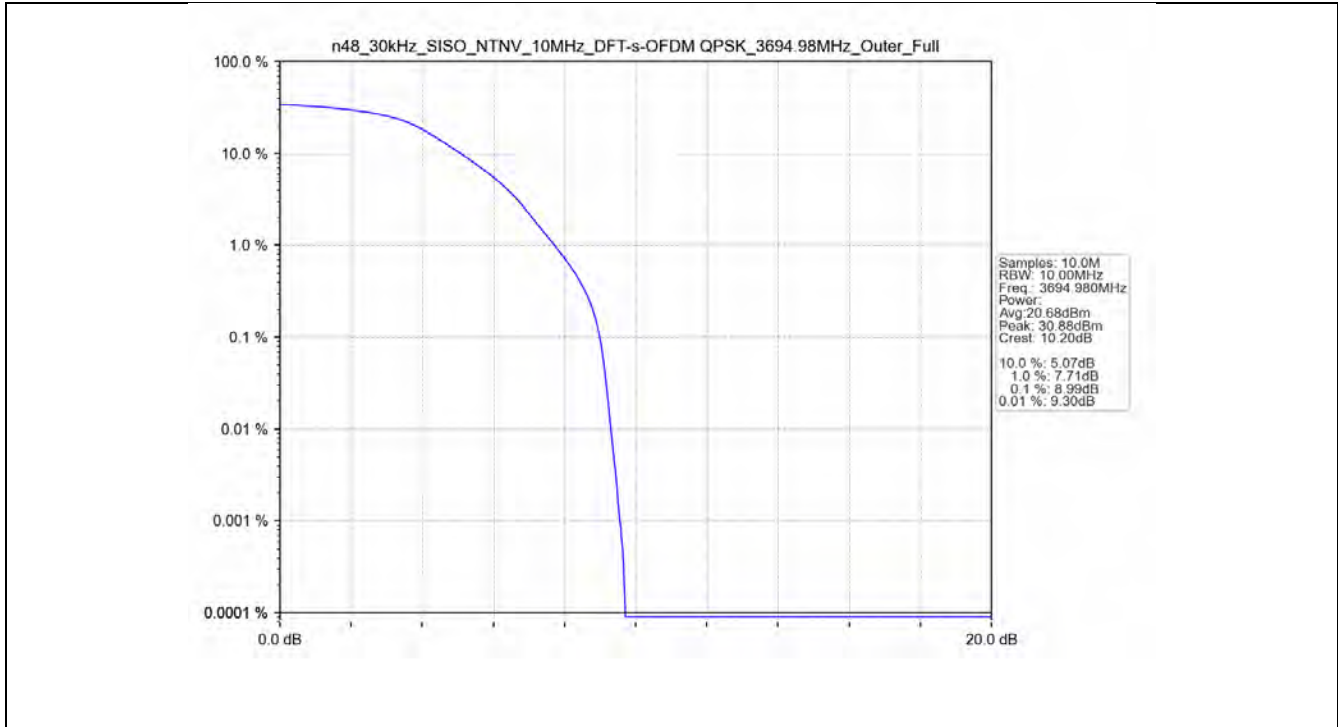


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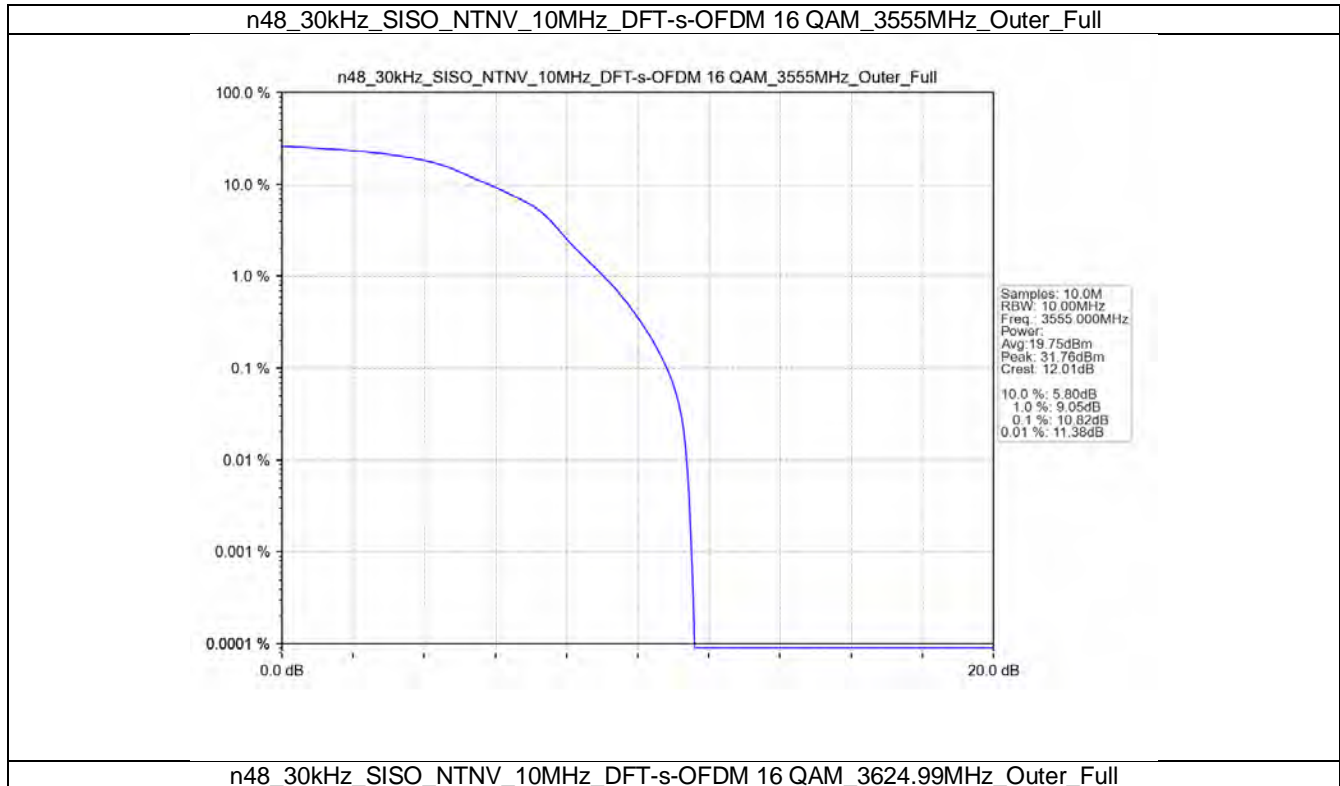


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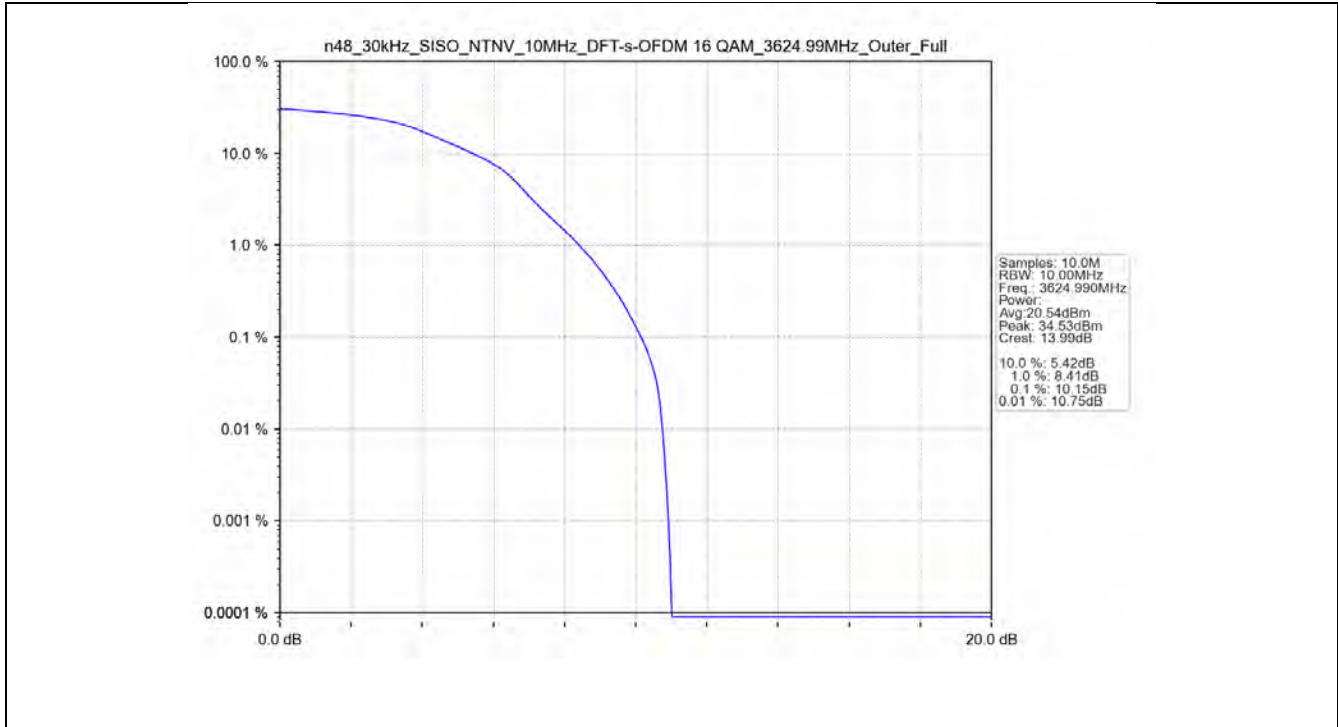


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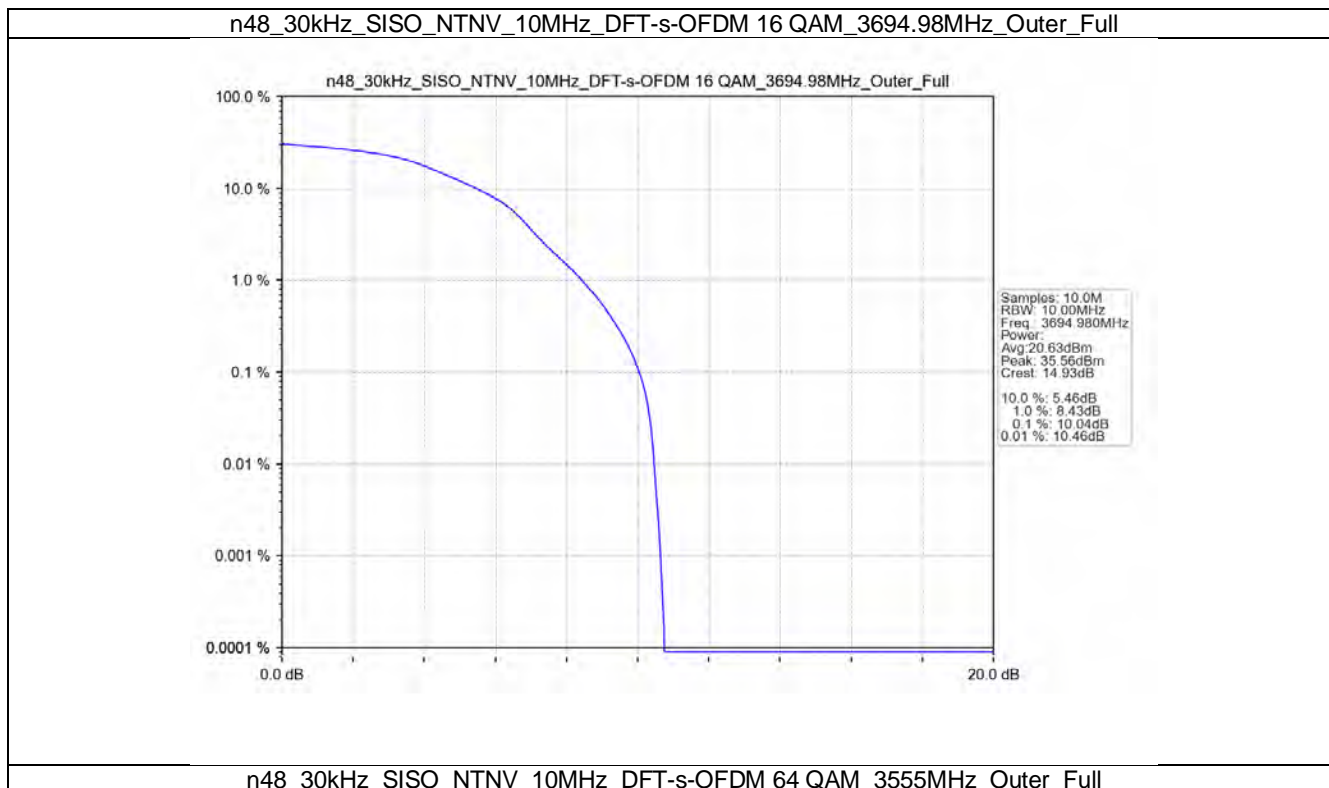
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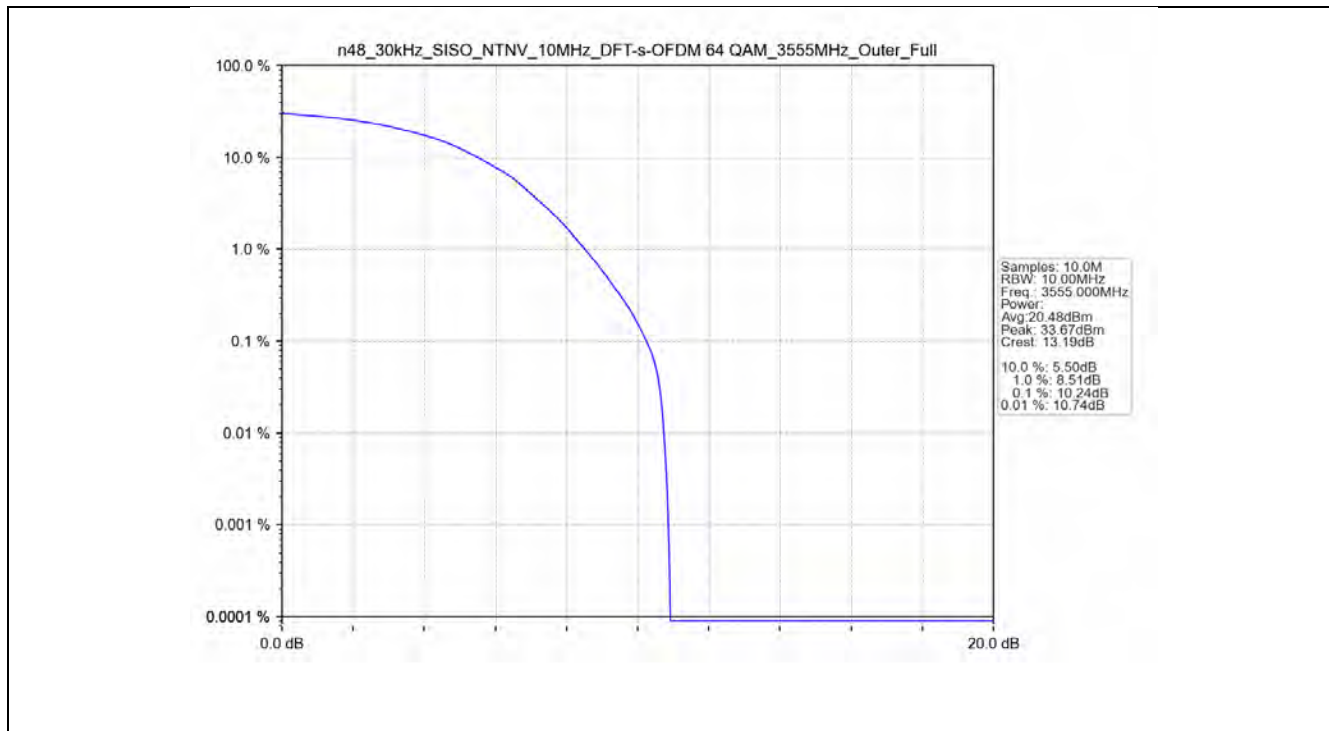
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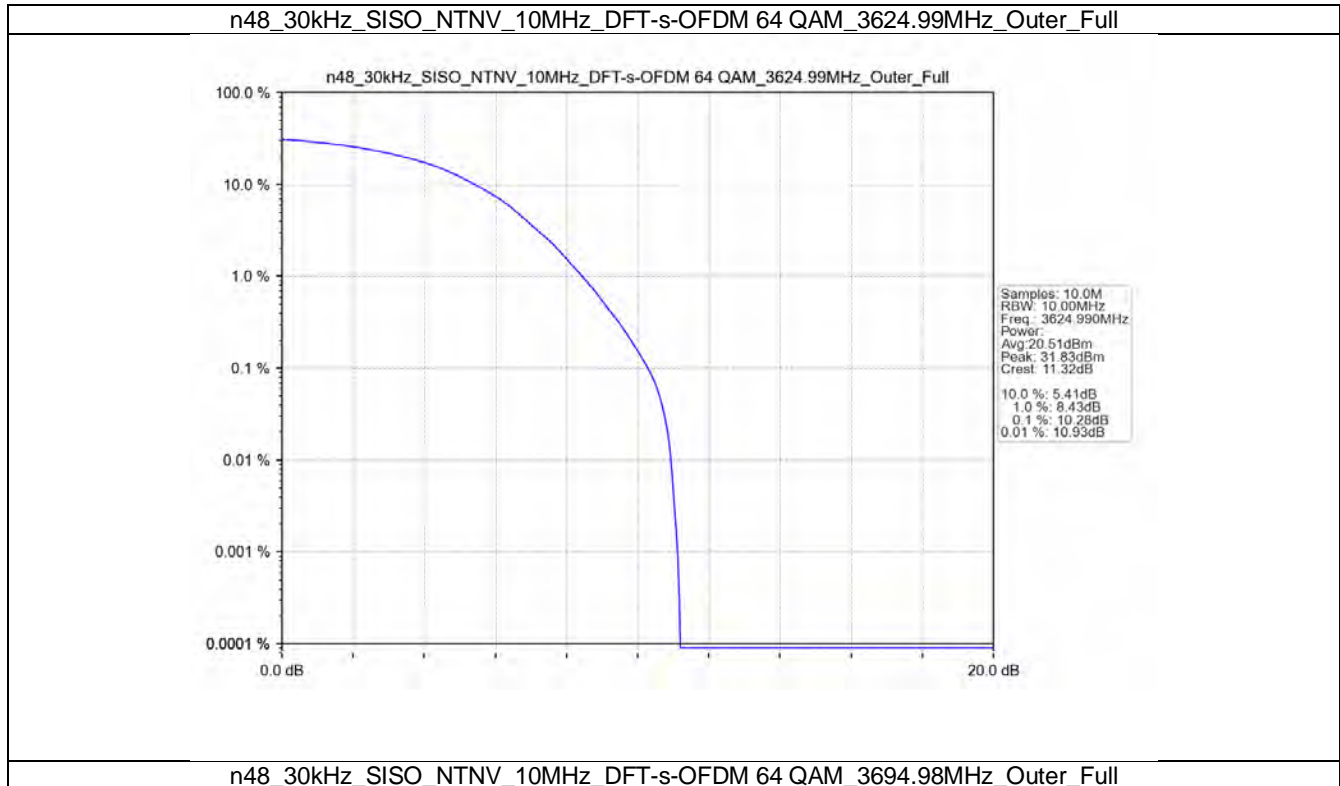


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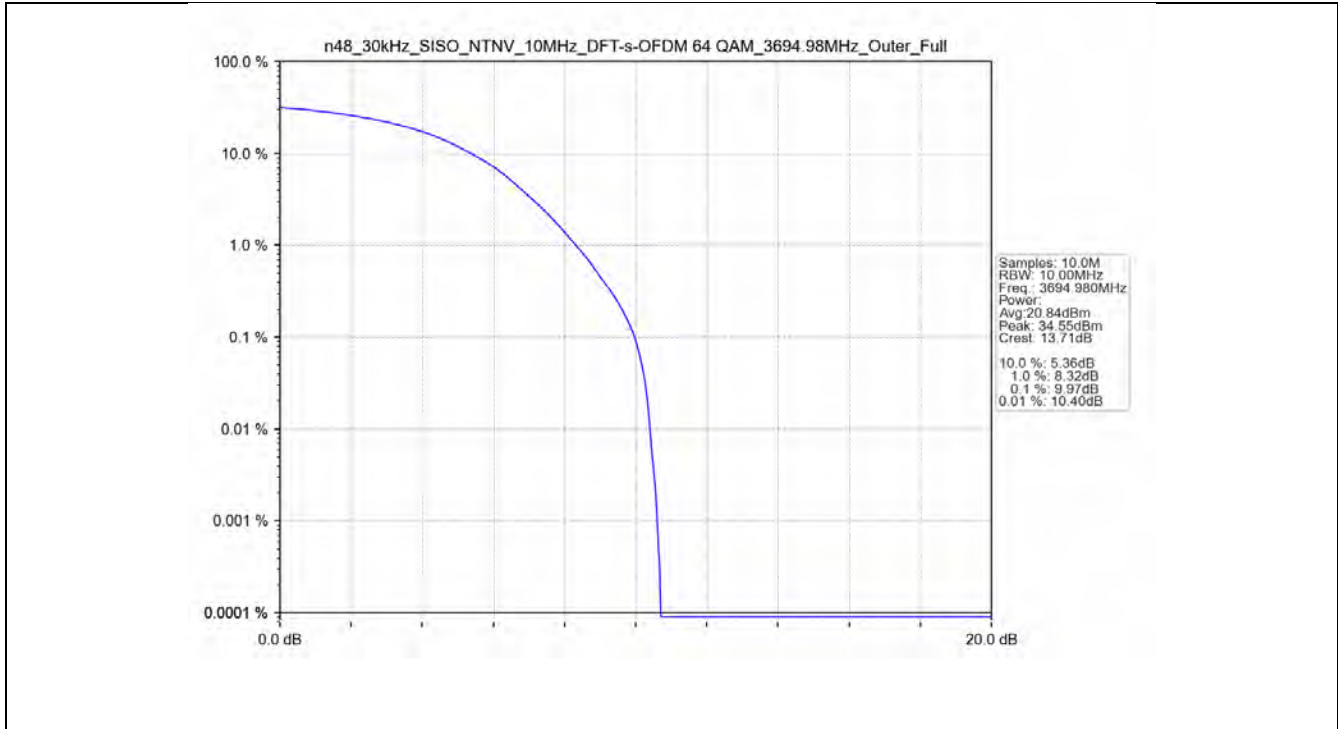


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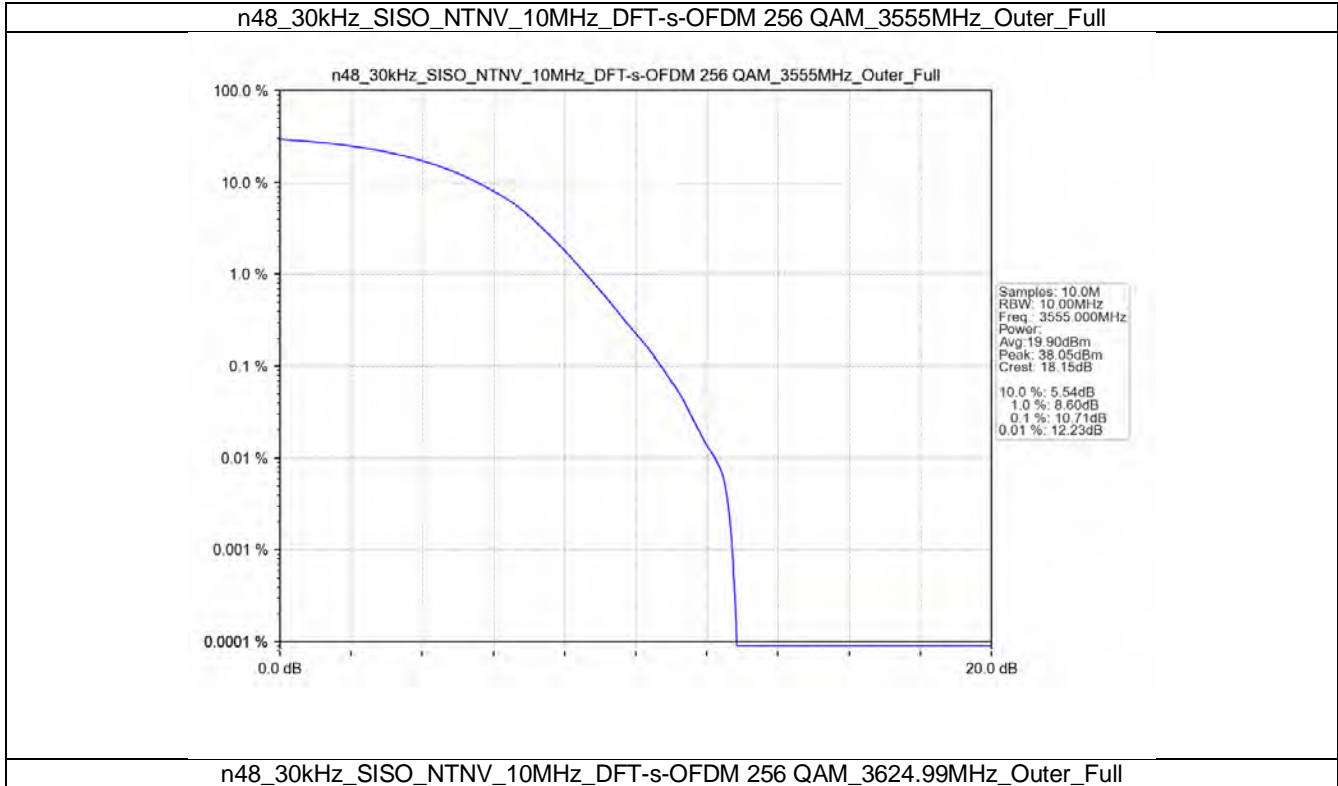


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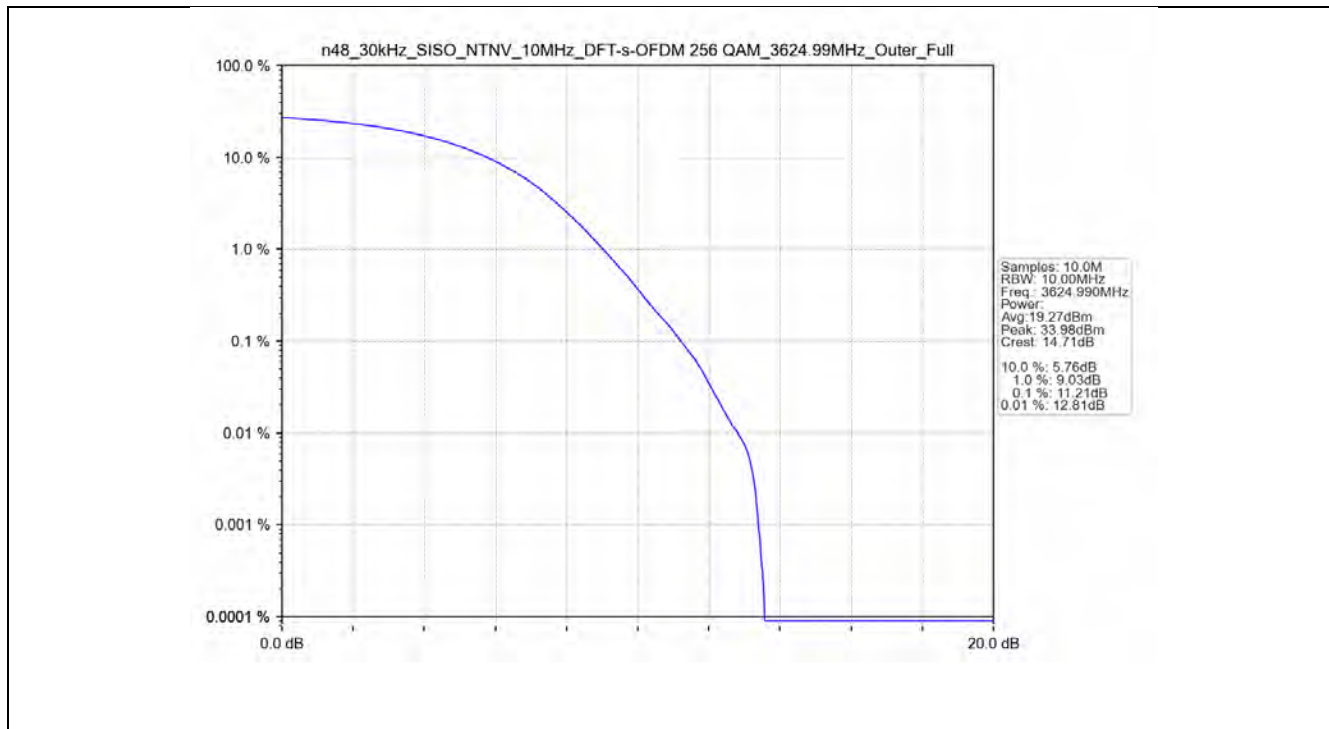
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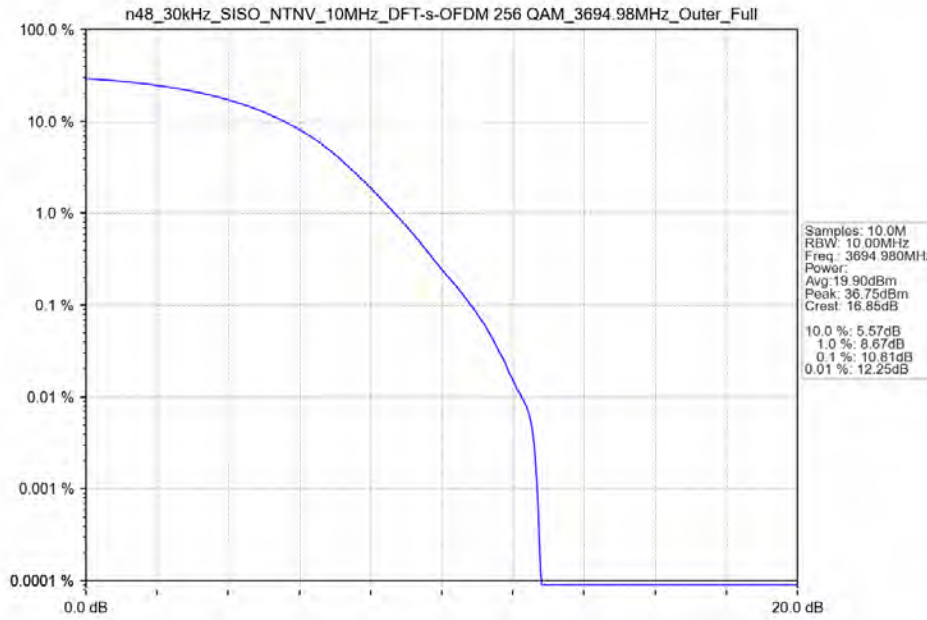
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Outer_Full



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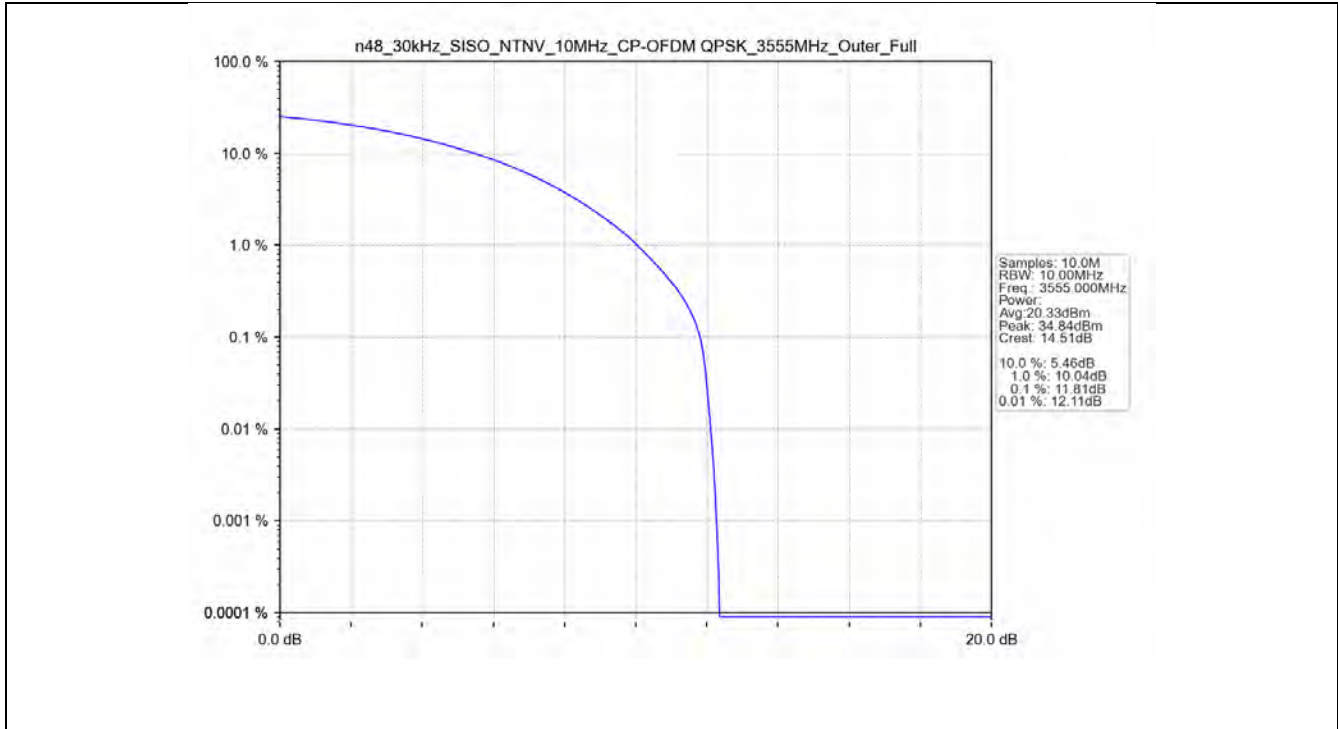


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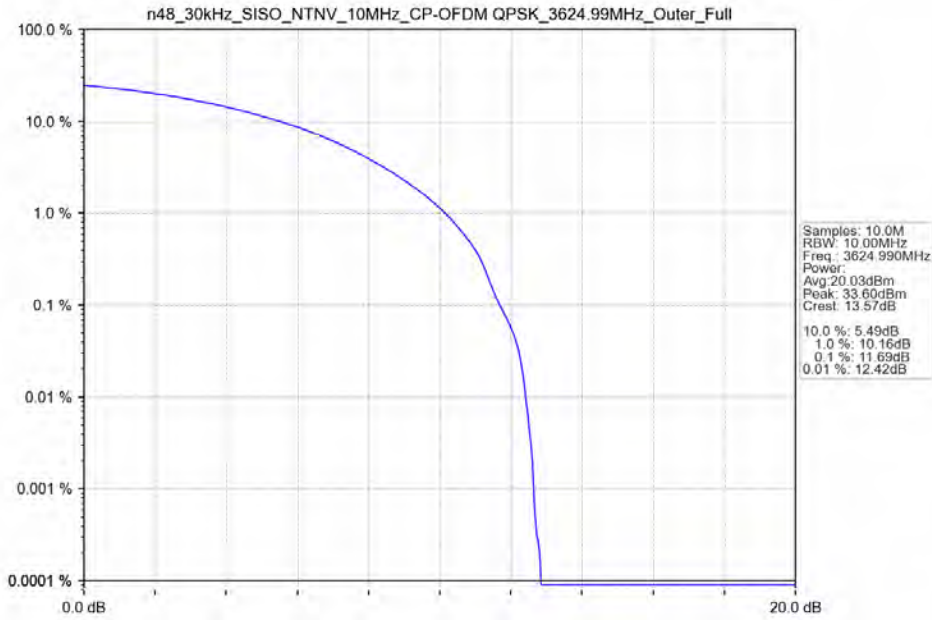
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3694.98MHz_Outer_Full



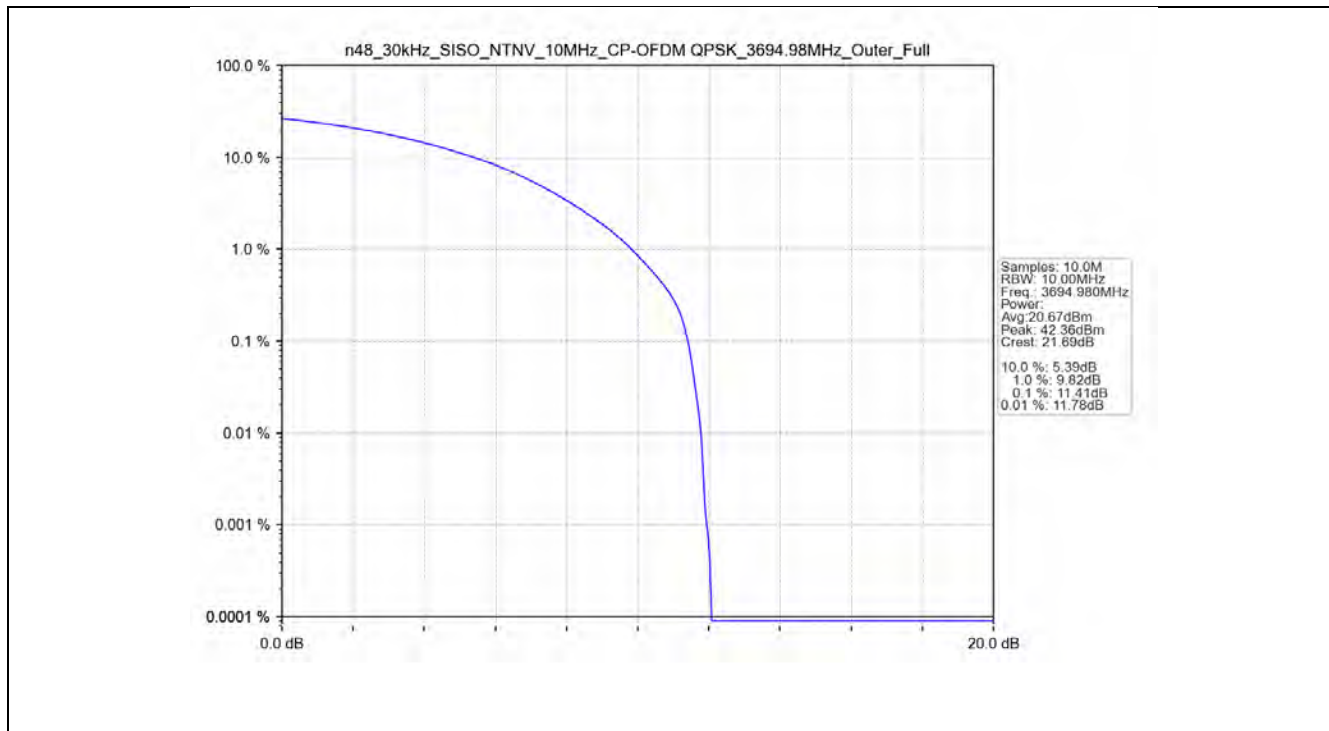
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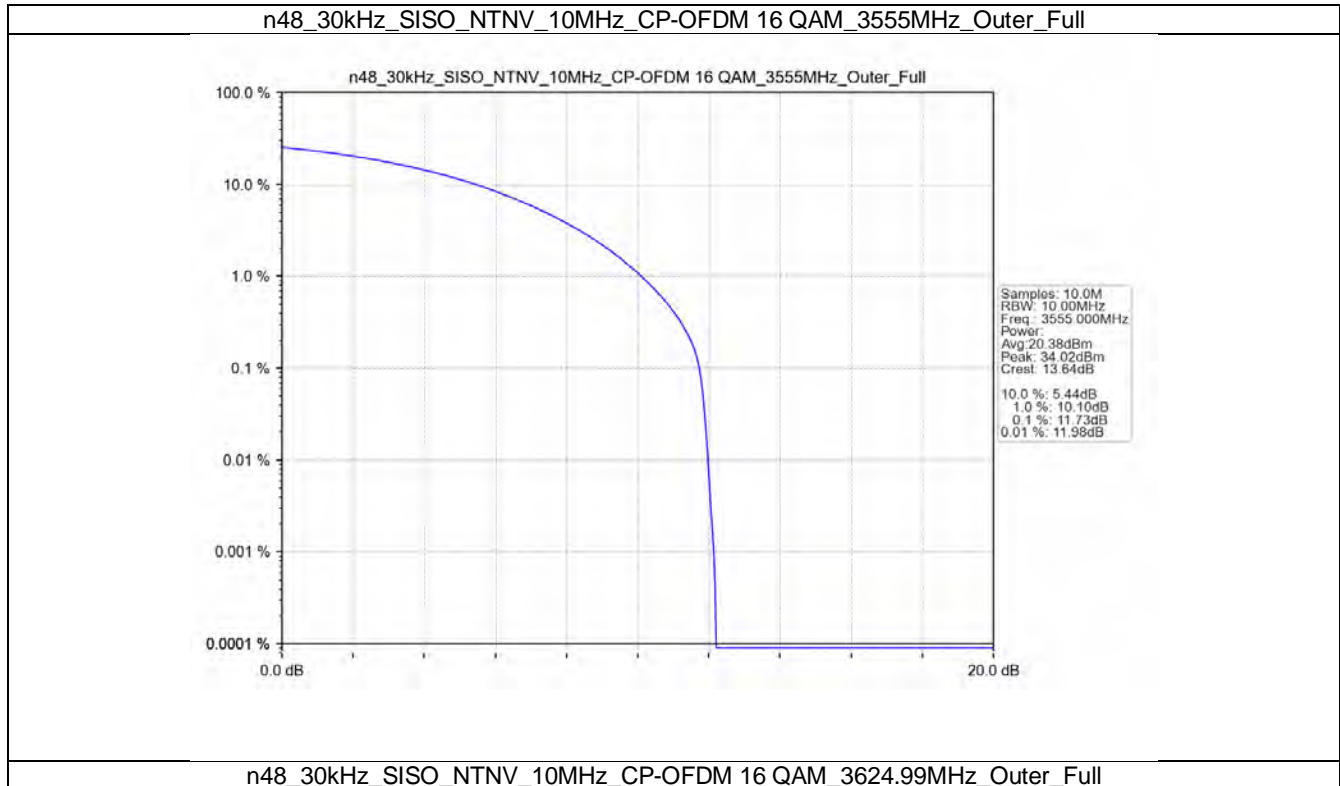


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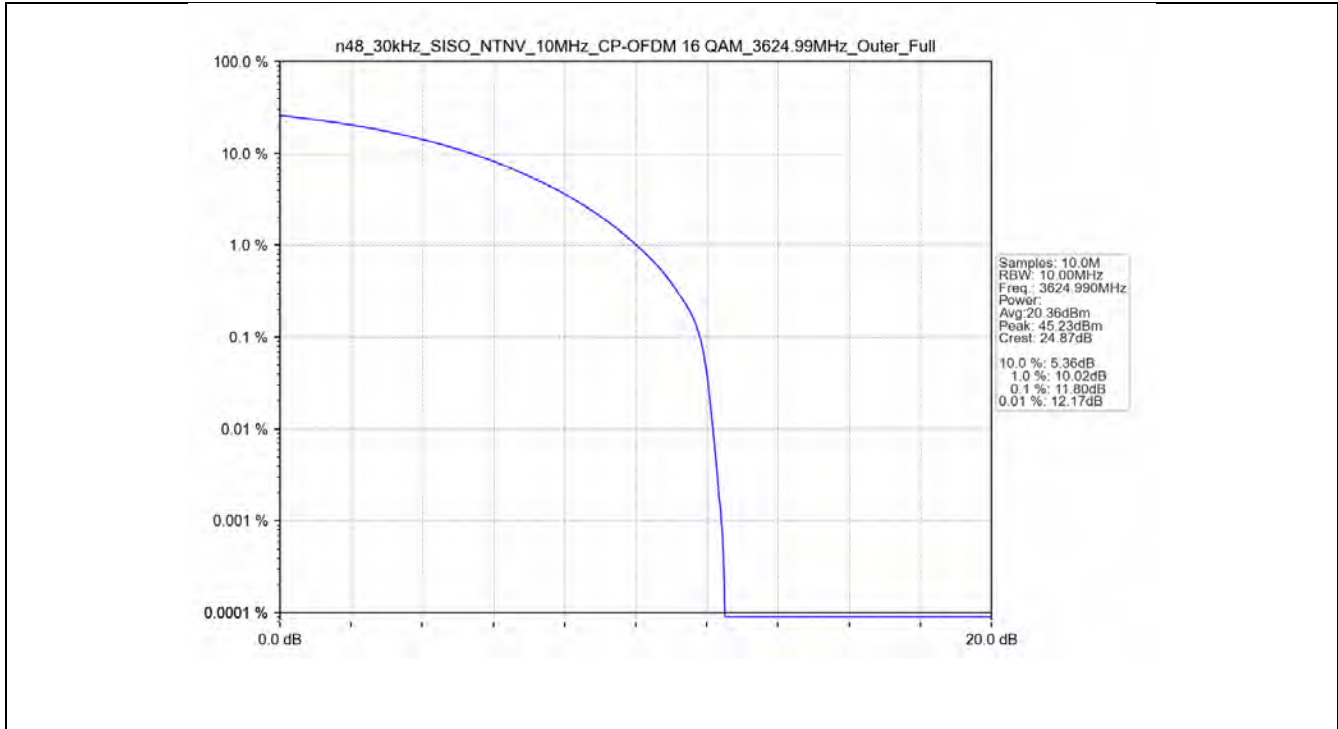


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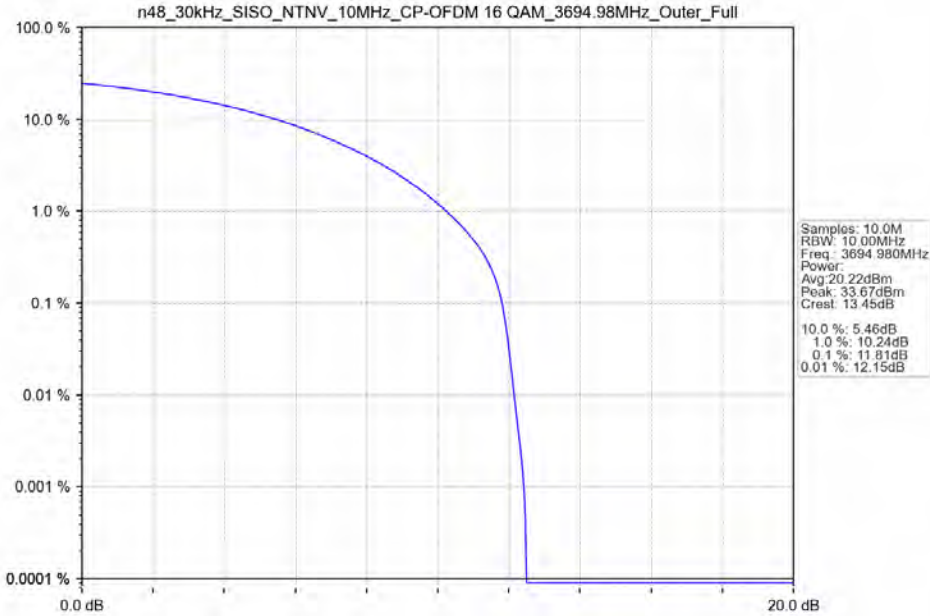
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_3694.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_3555MHz_Outer_Full



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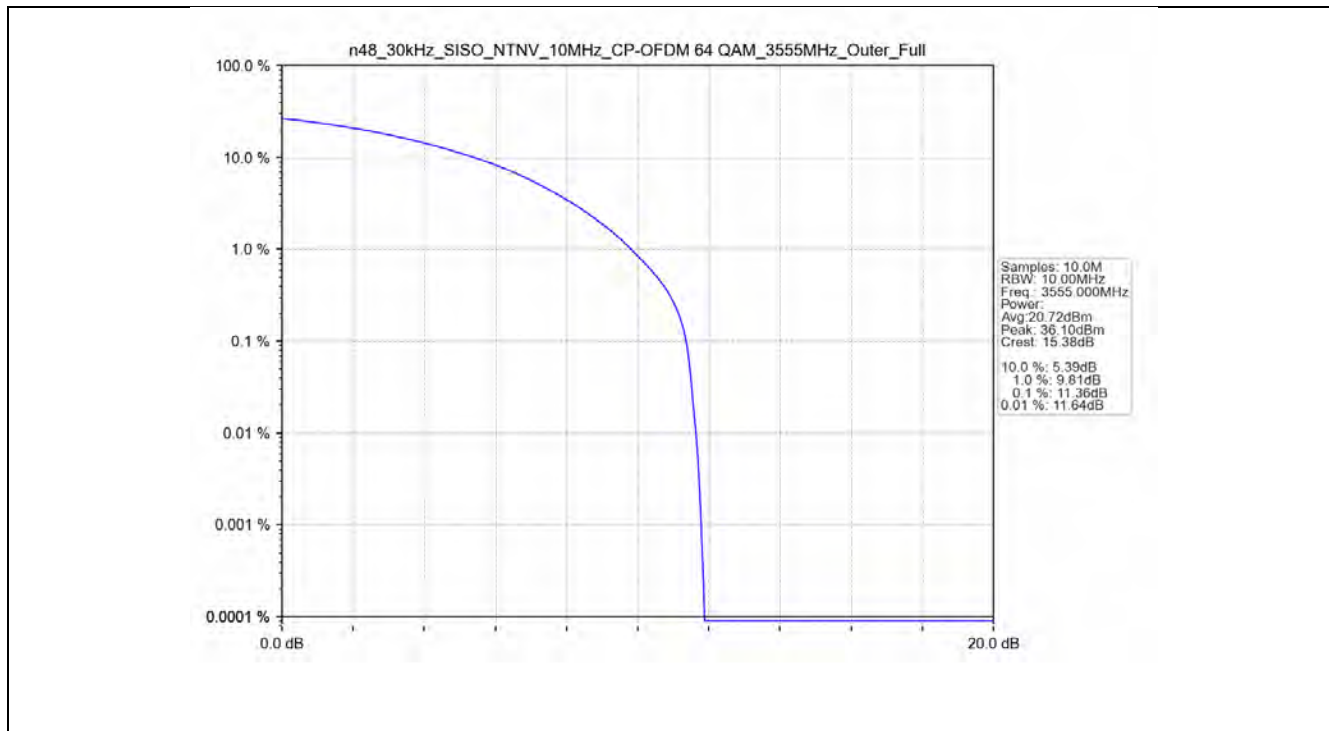
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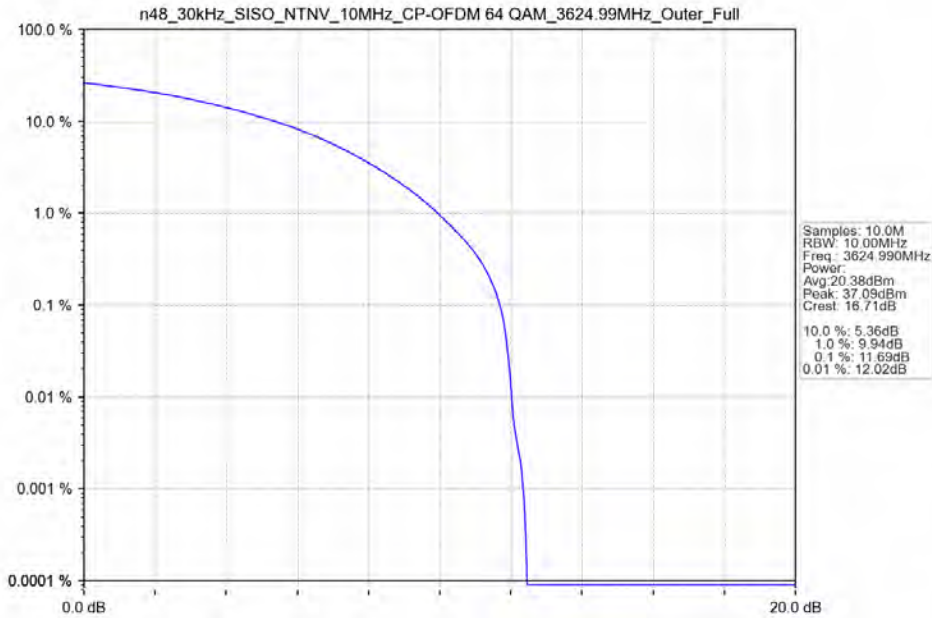
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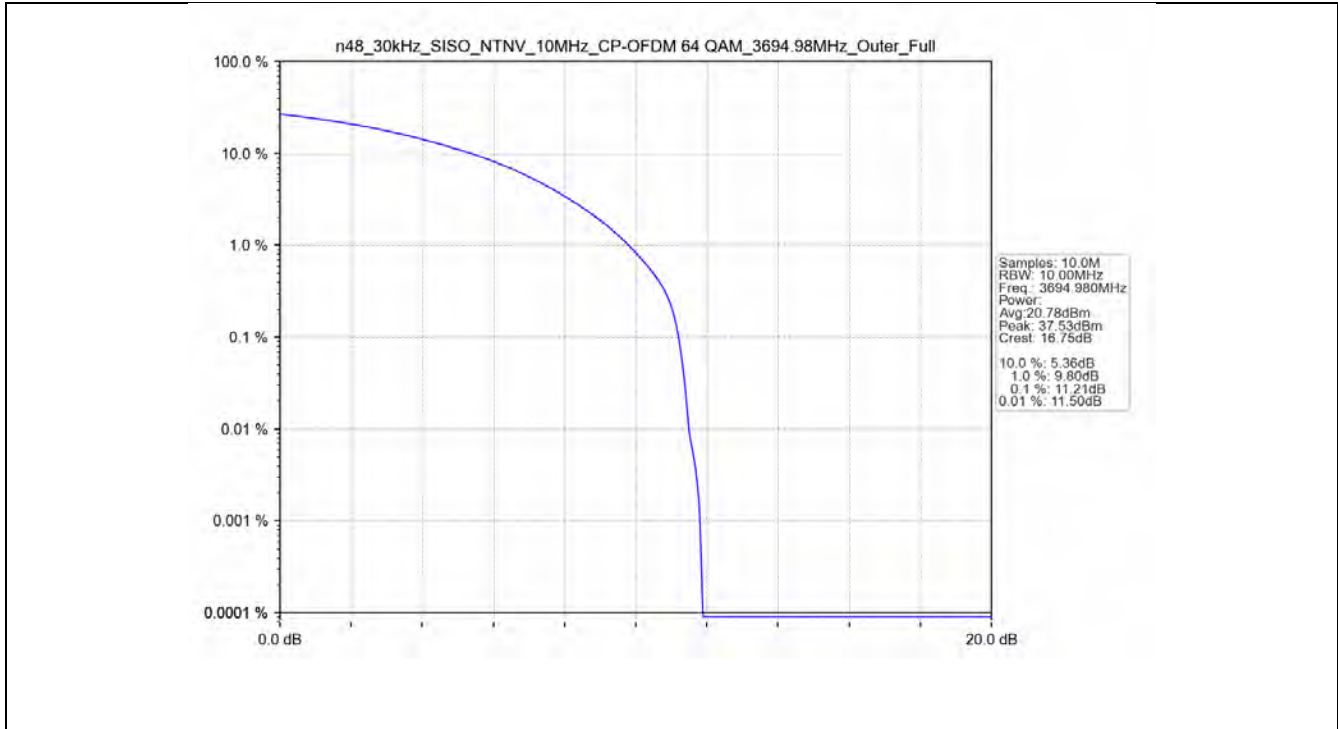


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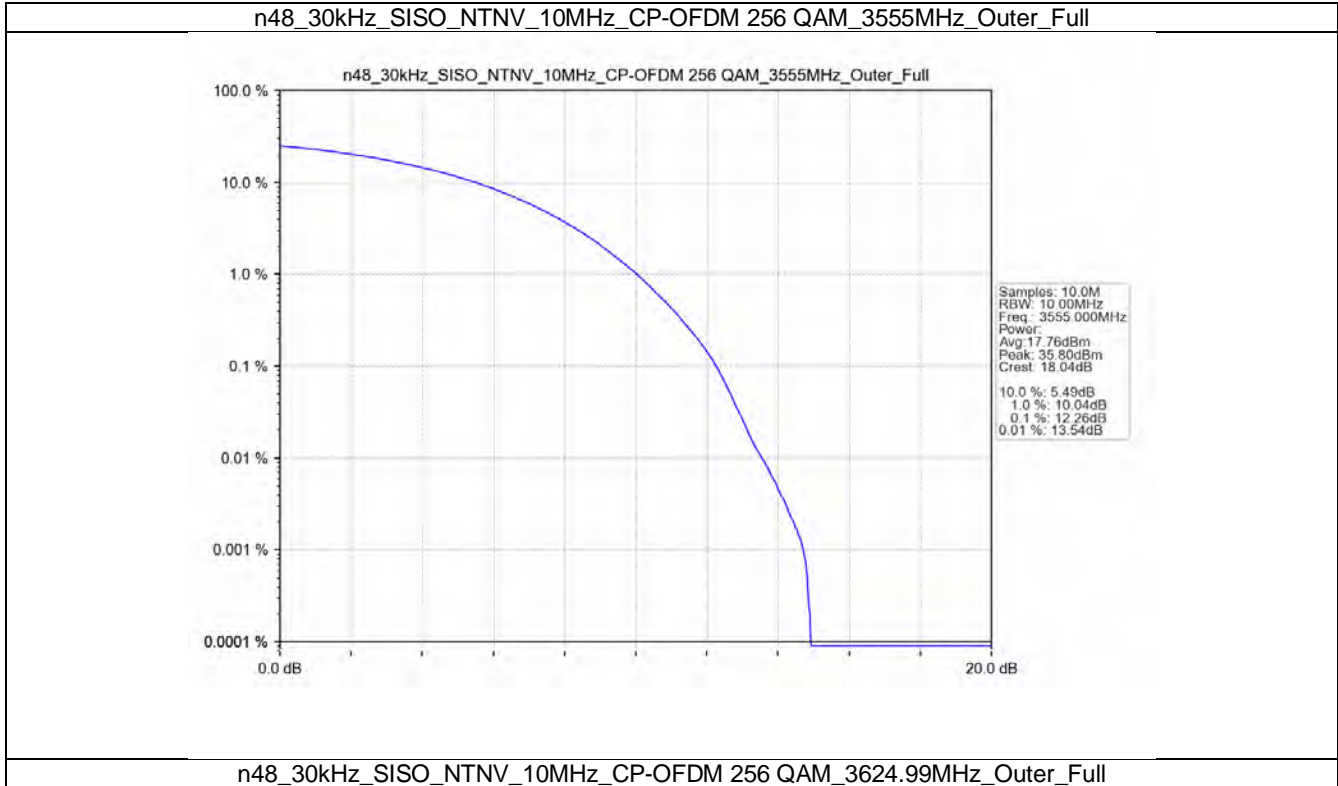


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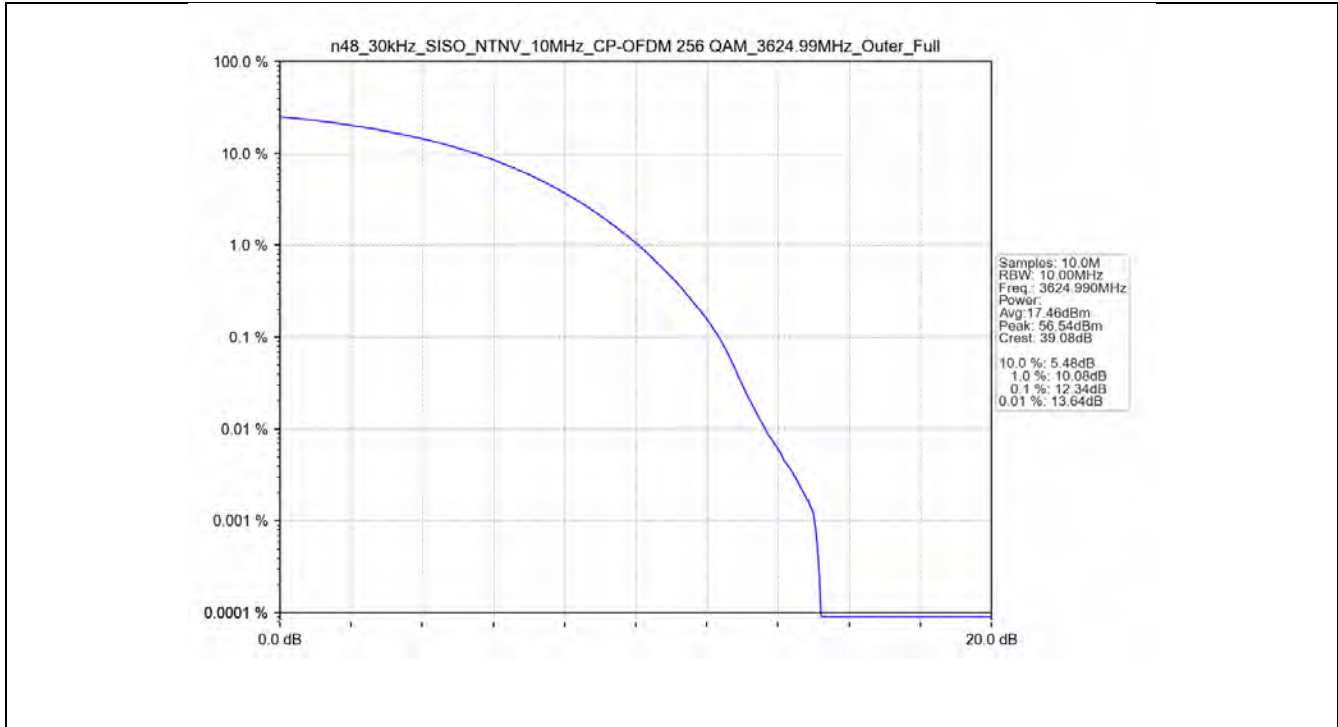


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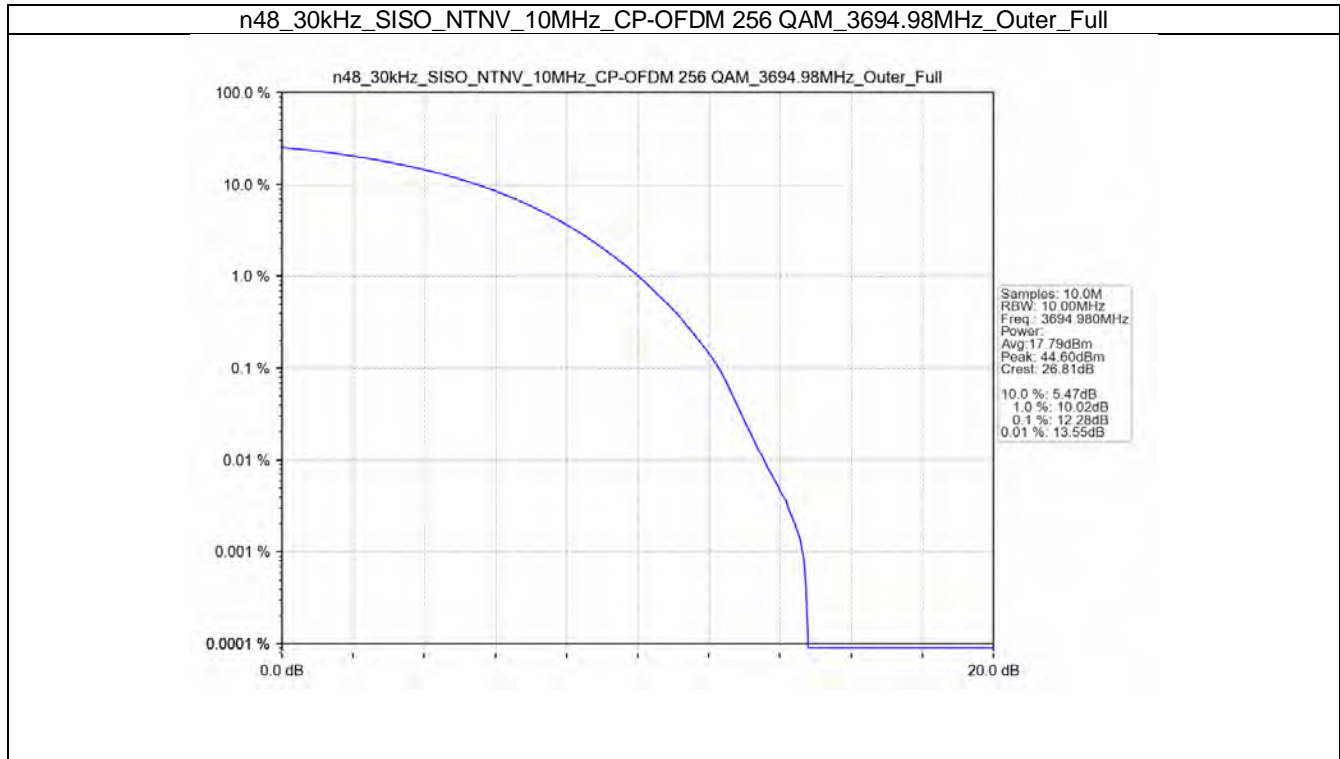


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4.2 30k_SISO_20MHz_NTNV

4.2.1 Test Result

5G NR n48 SCS=30kHz SISO 20MHz NNTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant4	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3560.01	Outer_Full	8.98	/	/	<=13	Pass
	3624.99	Outer_Full	8.14	/	/	<=13	Pass
	3690	Outer_Full	9.07	/	/	<=13	Pass
DFT-s-OFDM QPSK	3560.01	Outer_Full	9.15	/	/	<=13	Pass
	3624.99	Outer_Full	9.26	/	/	<=13	Pass
	3690	Outer_Full	8.54	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3560.01	Outer_Full	10.65	/	/	<=13	Pass
	3624.99	Outer_Full	10.03	/	/	<=13	Pass
	3690	Outer_Full	10.41	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3560.01	Outer_Full	10.60	/	/	<=13	Pass
	3624.99	Outer_Full	10.03	/	/	<=13	Pass
	3690	Outer_Full	10.25	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3560.01	Outer_Full	10.28	/	/	<=13	Pass
	3624.99	Outer_Full	11.12	/	/	<=13	Pass
	3690	Outer_Full	11.05	/	/	<=13	Pass
CP-OFDM QPSK	3560.01	Outer_Full	11.93	/	/	<=13	Pass
	3624.99	Outer_Full	10.84	/	/	<=13	Pass
	3690	Outer_Full	11.61	/	/	<=13	Pass
CP-OFDM 16 QAM	3560.01	Outer_Full	11.82	/	/	<=13	Pass
	3624.99	Outer_Full	11.67	/	/	<=13	Pass
	3690	Outer_Full	11.15	/	/	<=13	Pass
CP-OFDM 64 QAM	3560.01	Outer_Full	11.38	/	/	<=13	Pass
	3624.99	Outer_Full	11.91	/	/	<=13	Pass
	3690	Outer_Full	12.45	/	/	<=13	Pass
CP-OFDM 256 QAM	3560.01	Outer_Full	11.82	/	/	<=13	Pass
	3624.99	Outer_Full	11.98	/	/	<=13	Pass
	3690	Outer_Full	12.43	/	/	<=13	Pass



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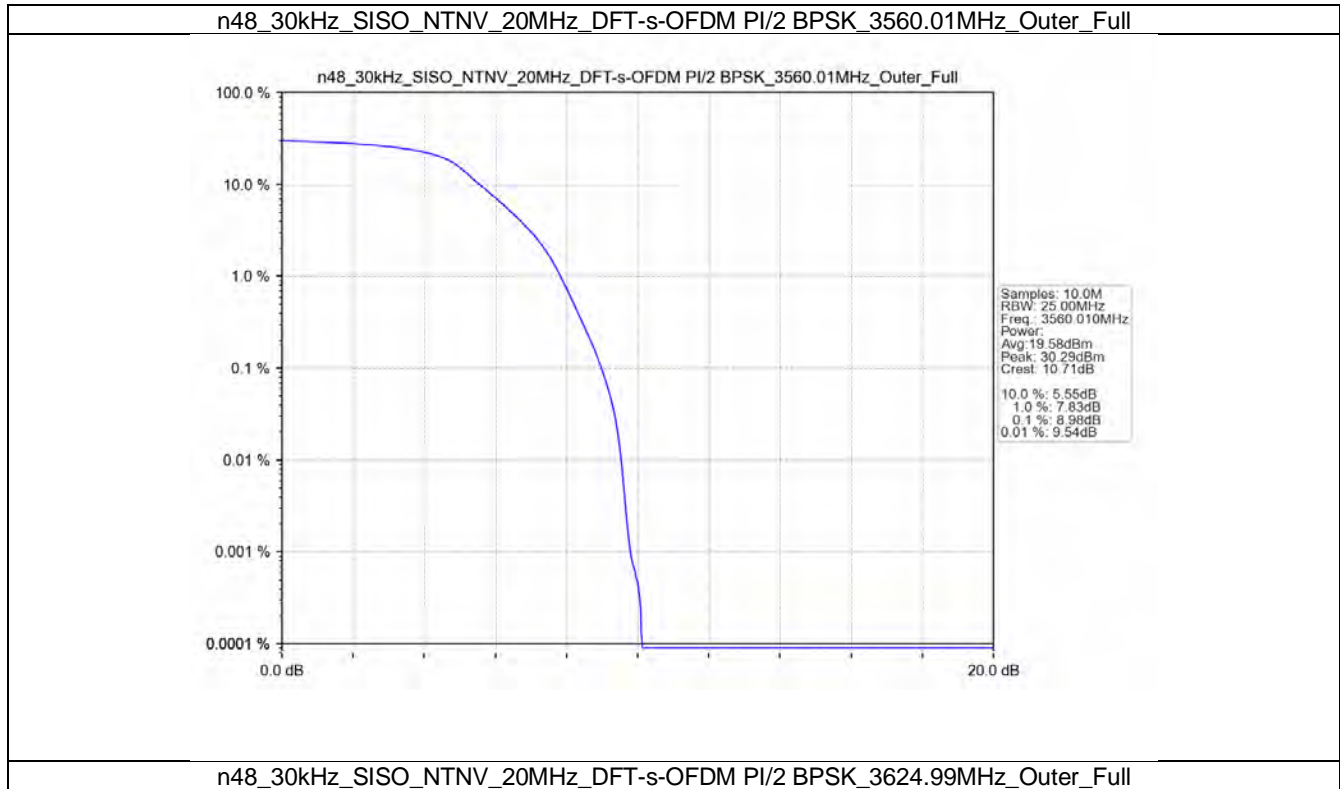
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4.2.2 Test Graph



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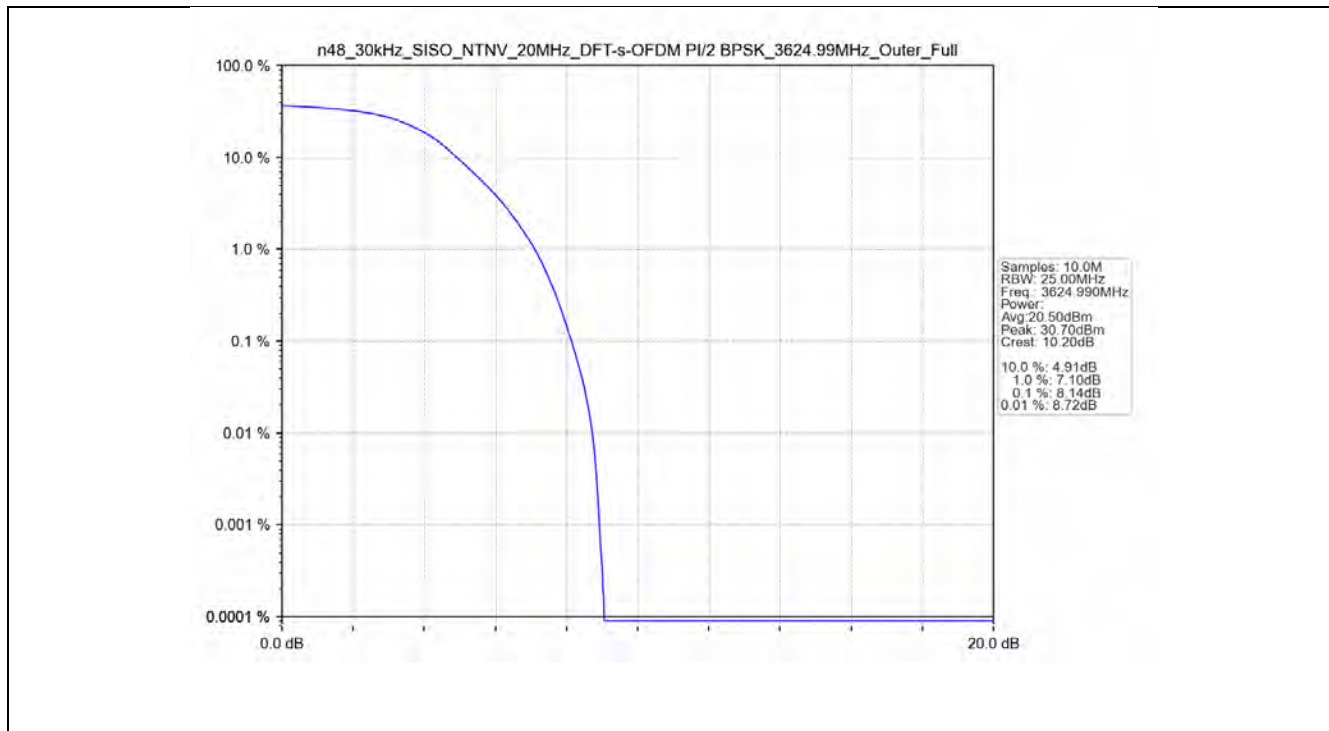
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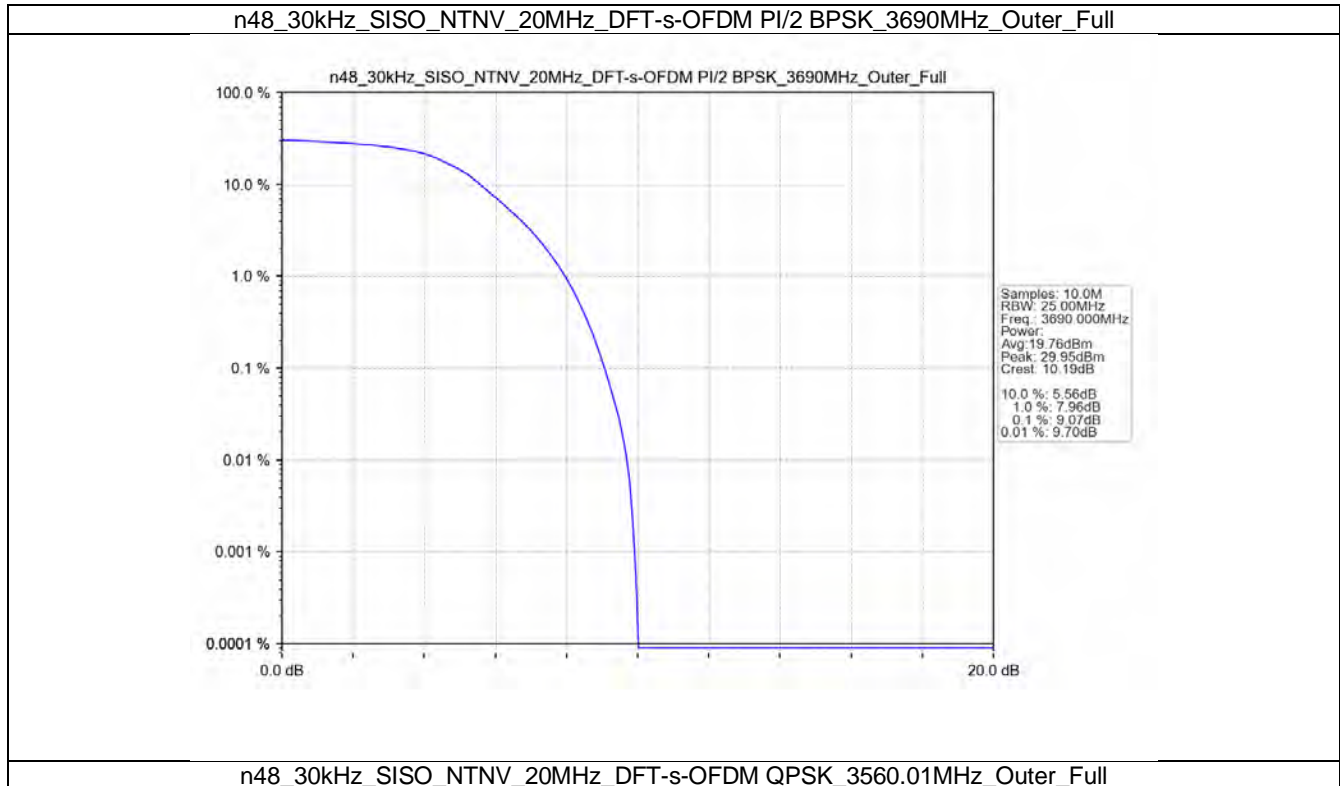


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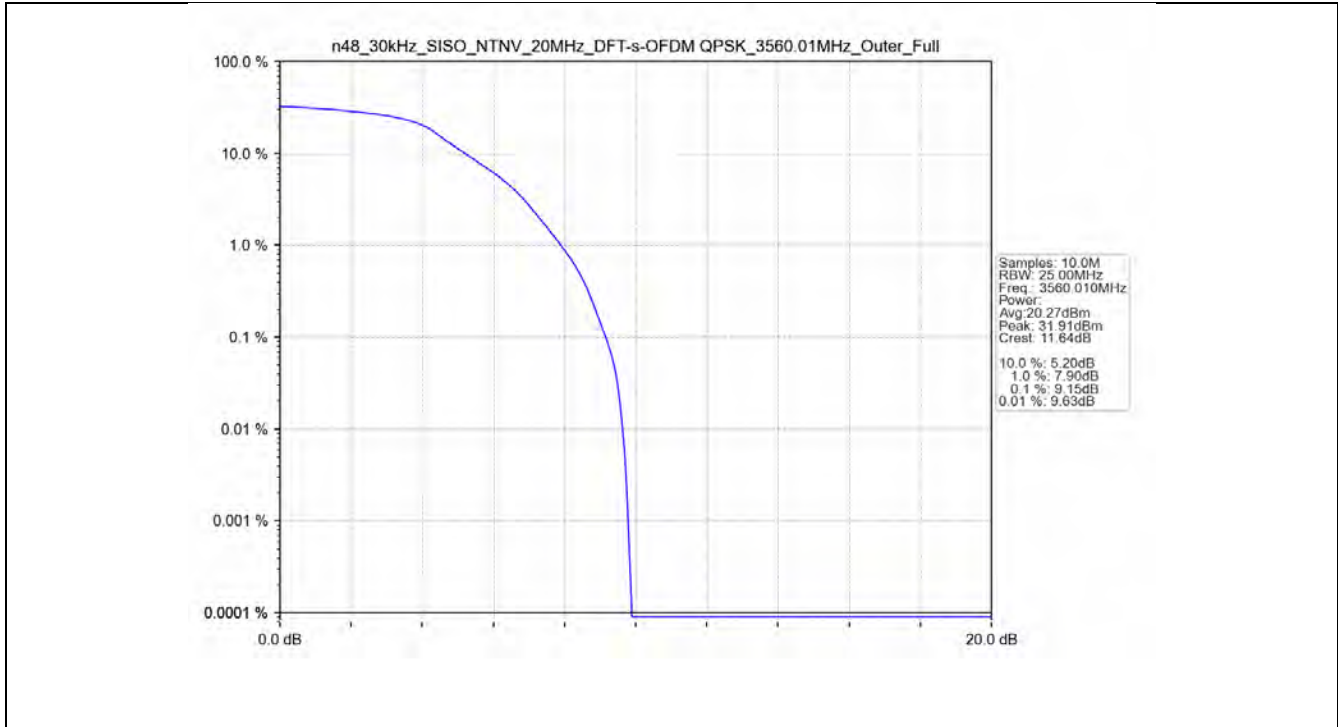


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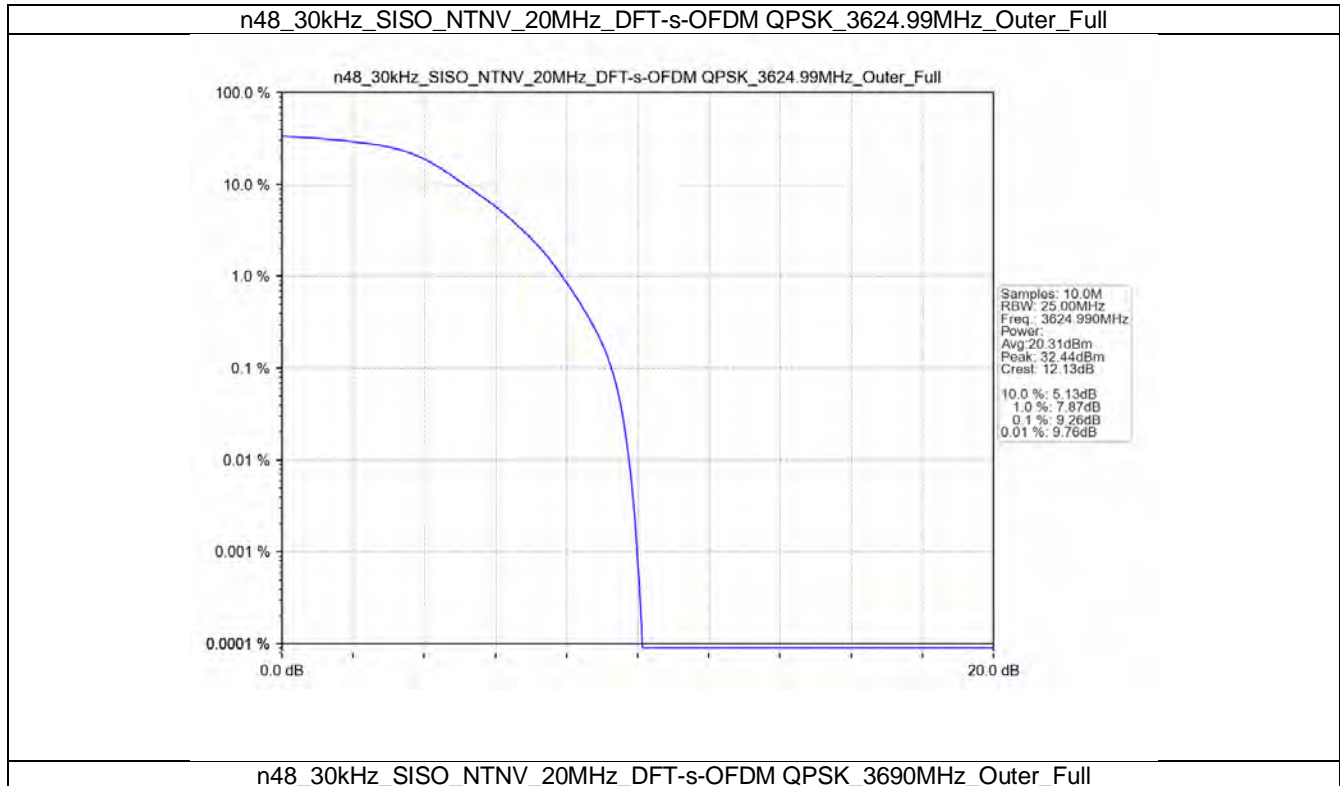


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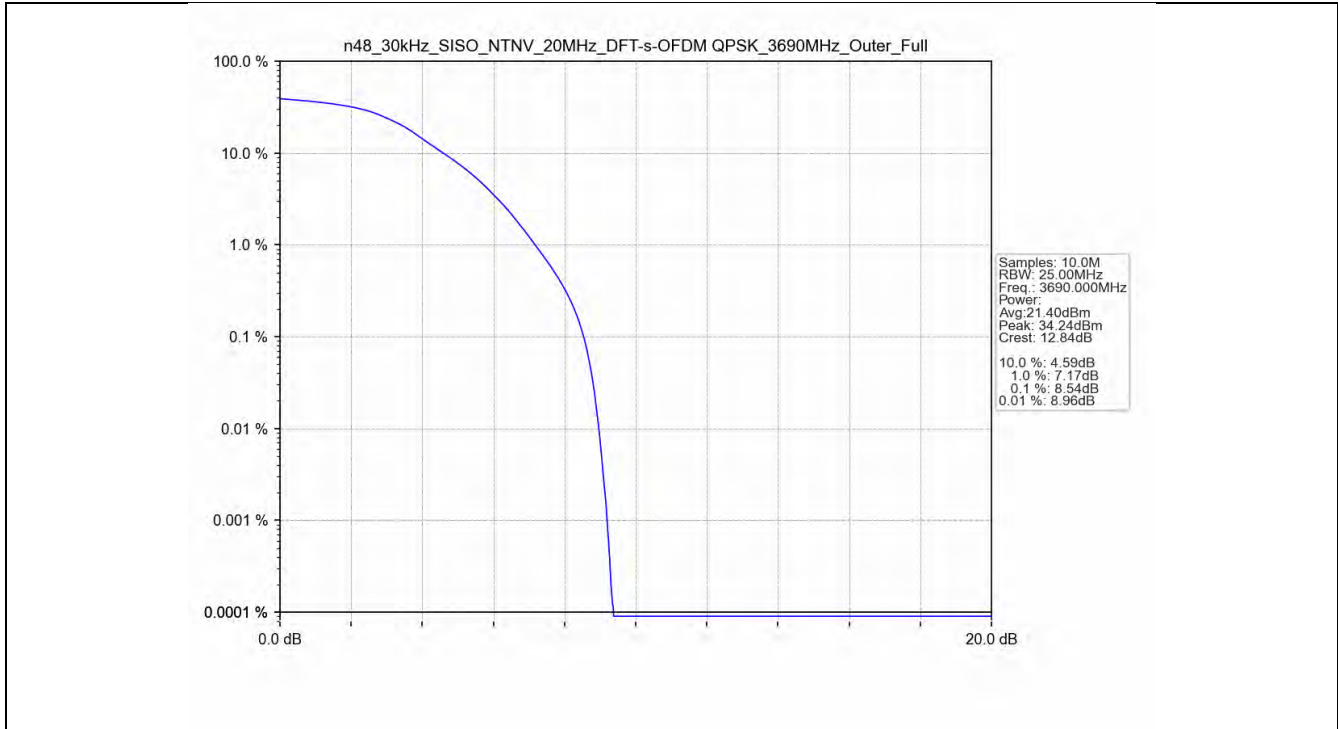


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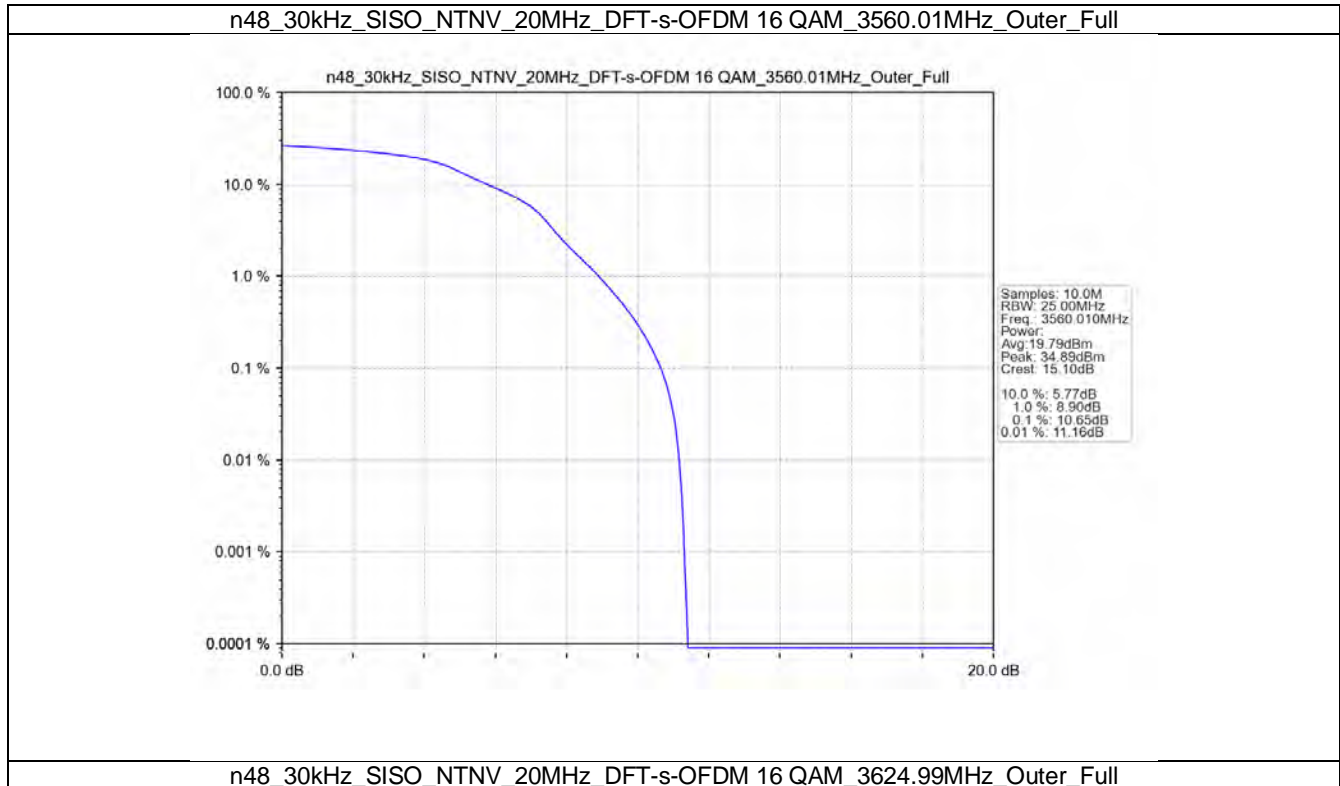


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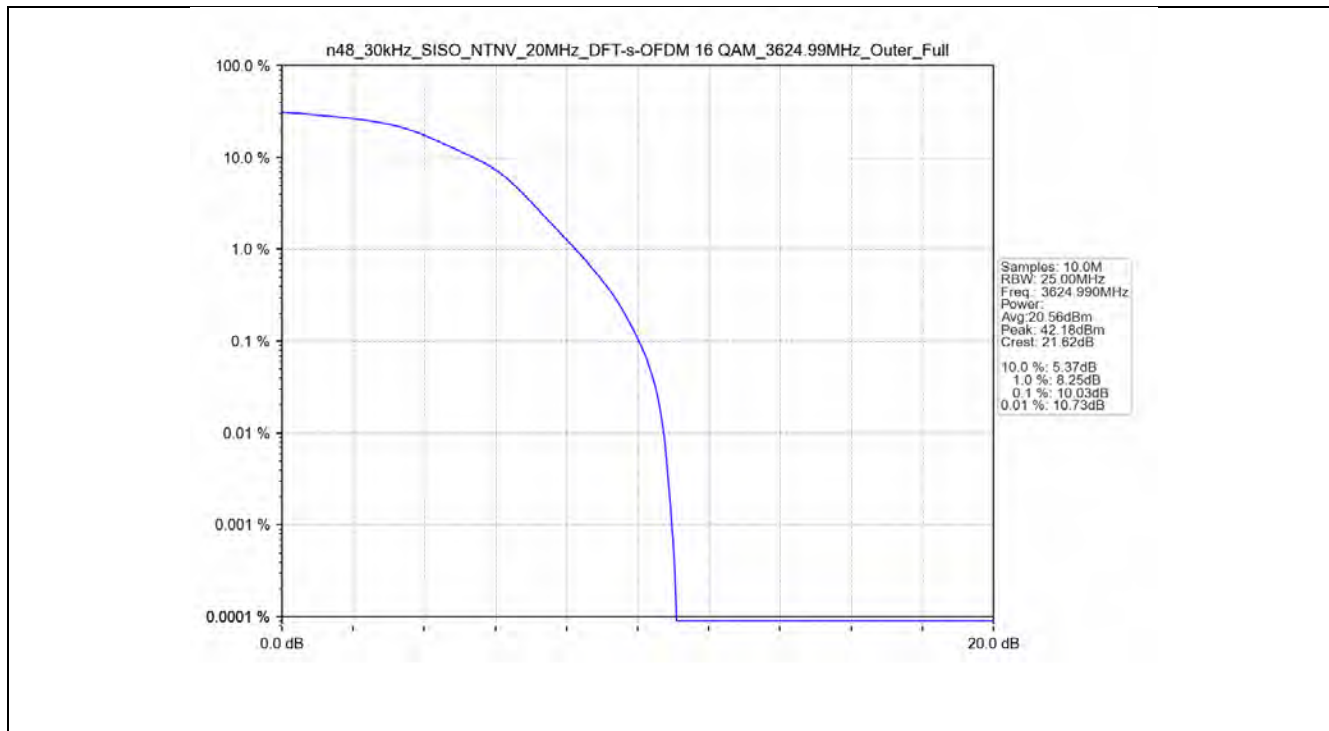
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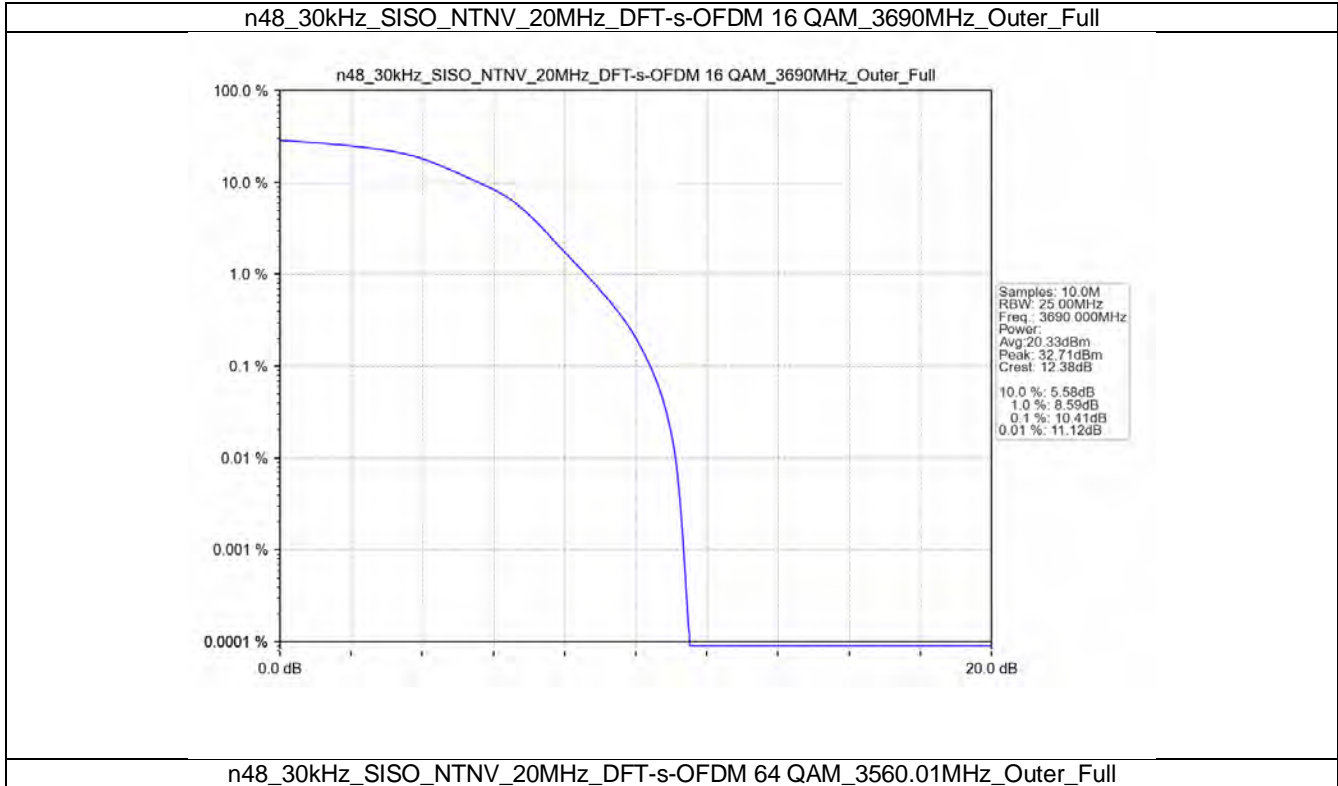


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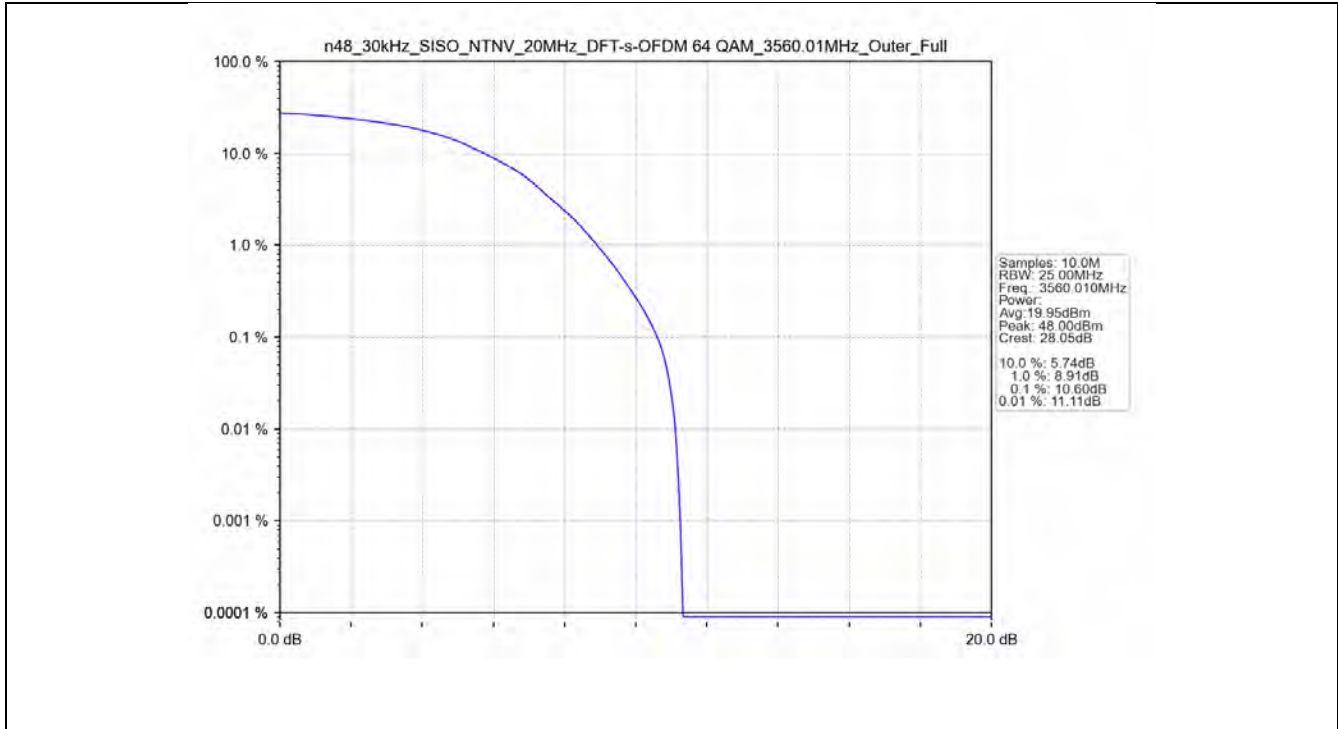


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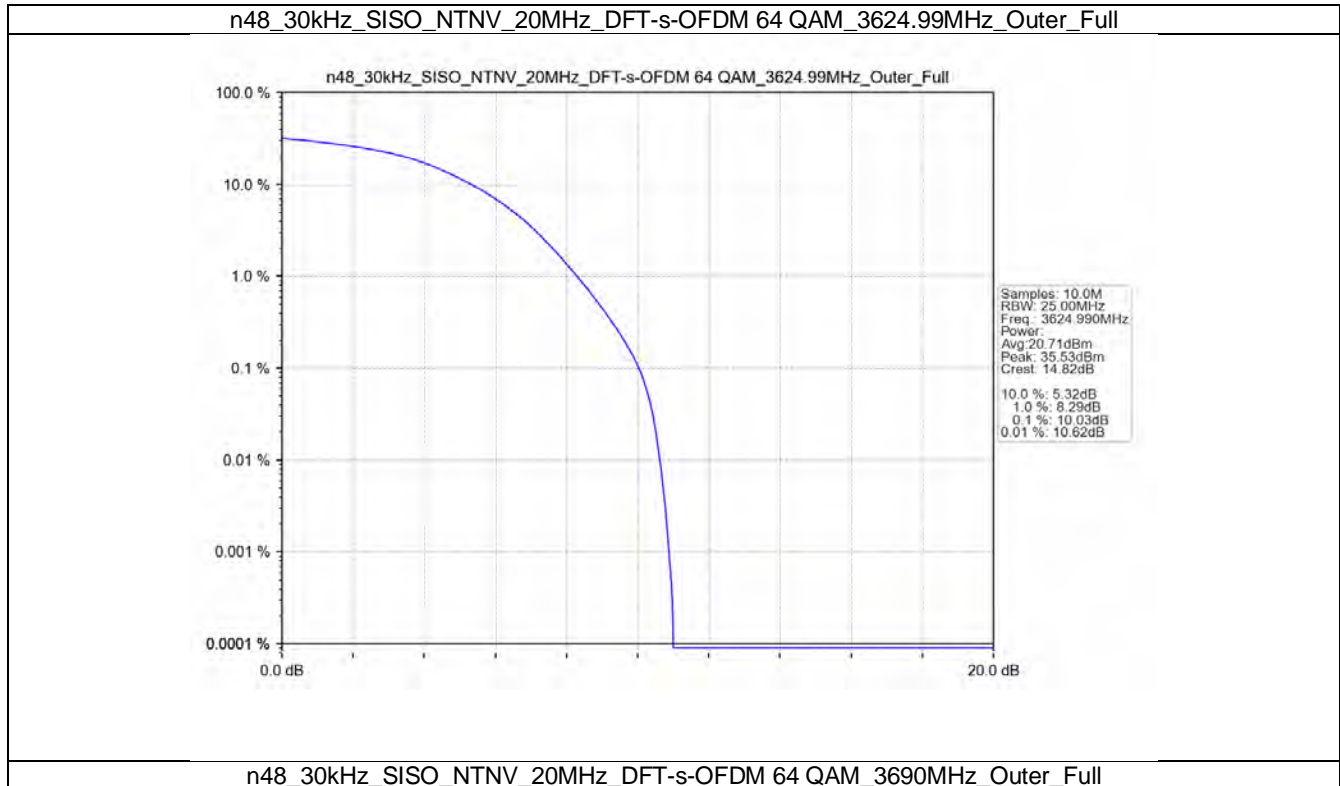


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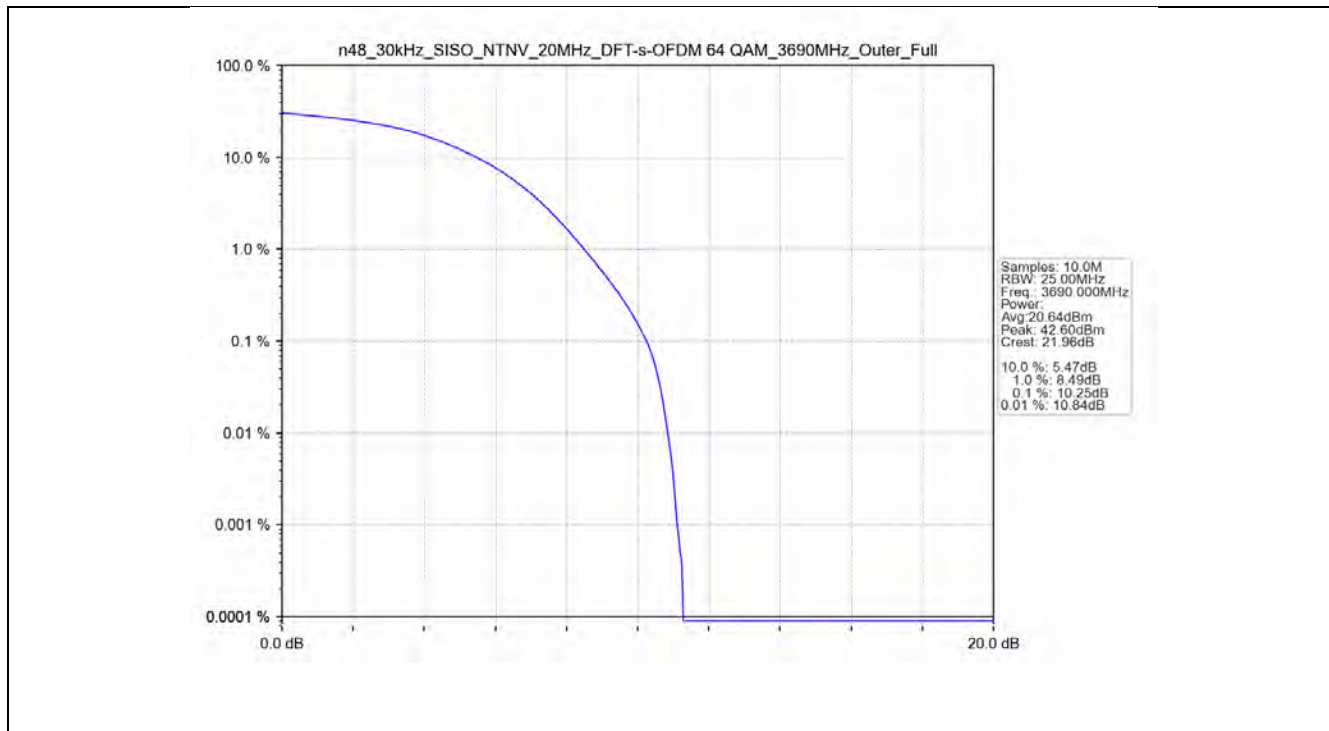
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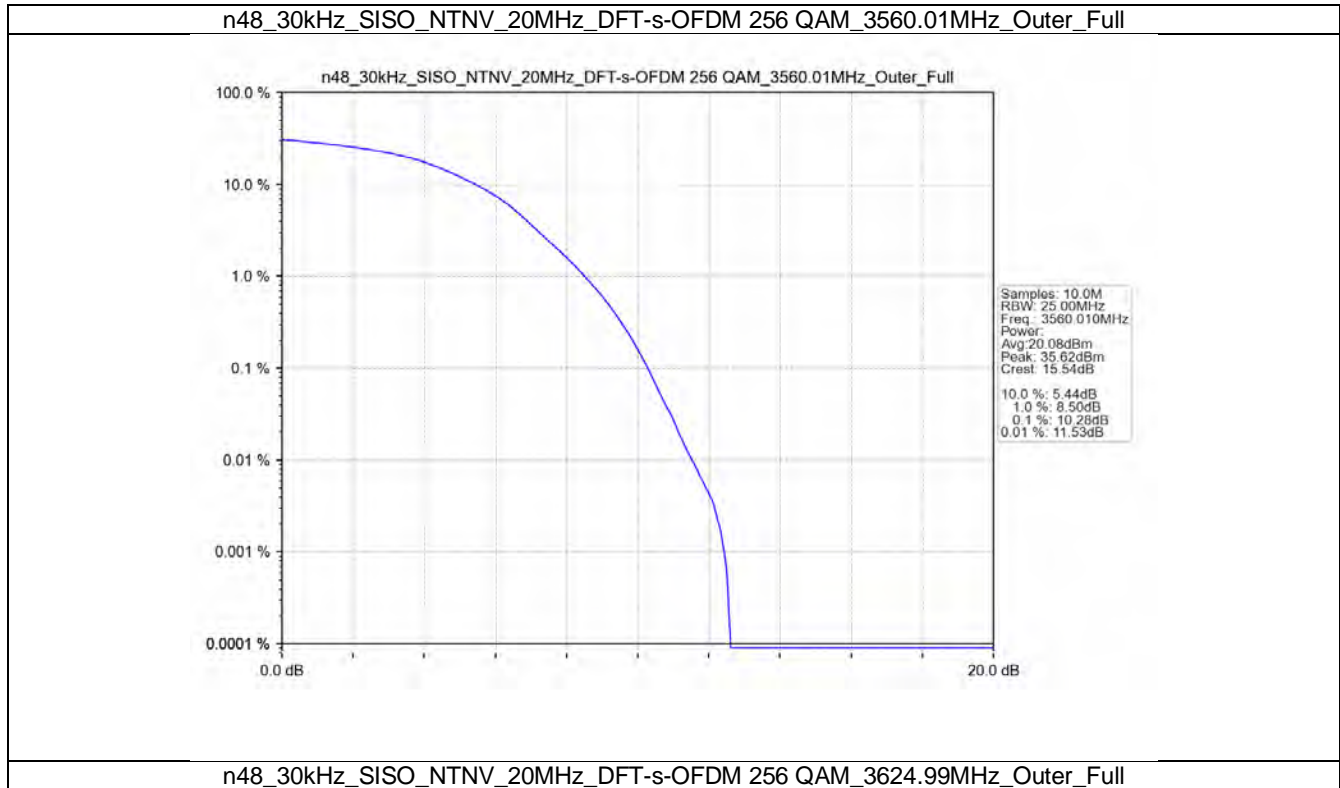


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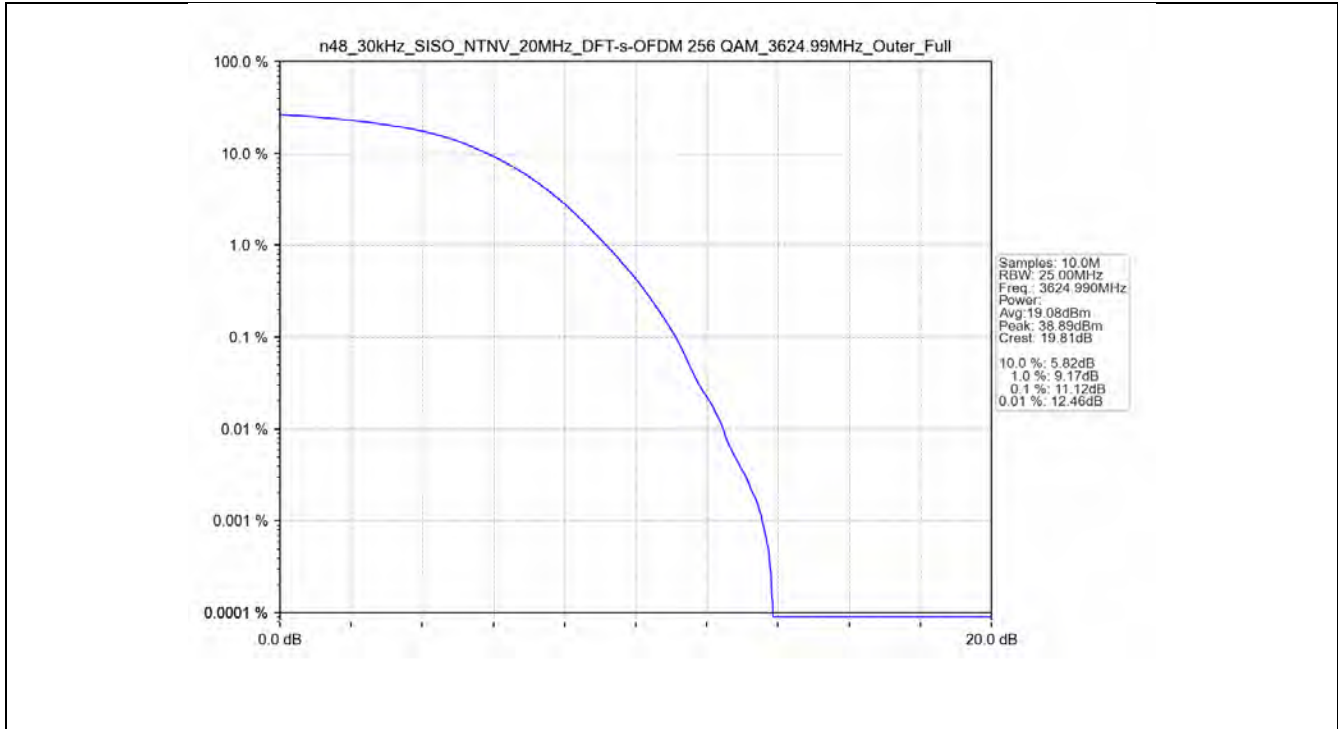


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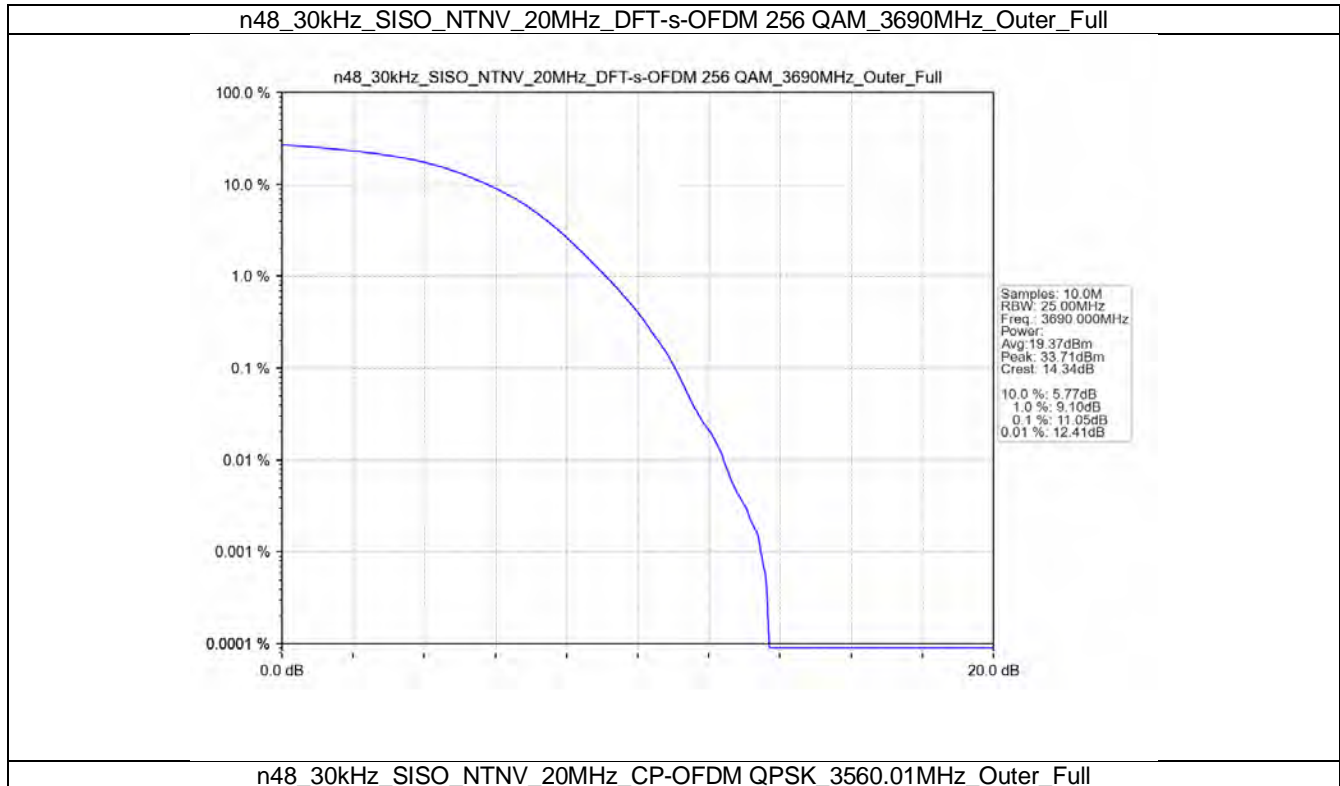


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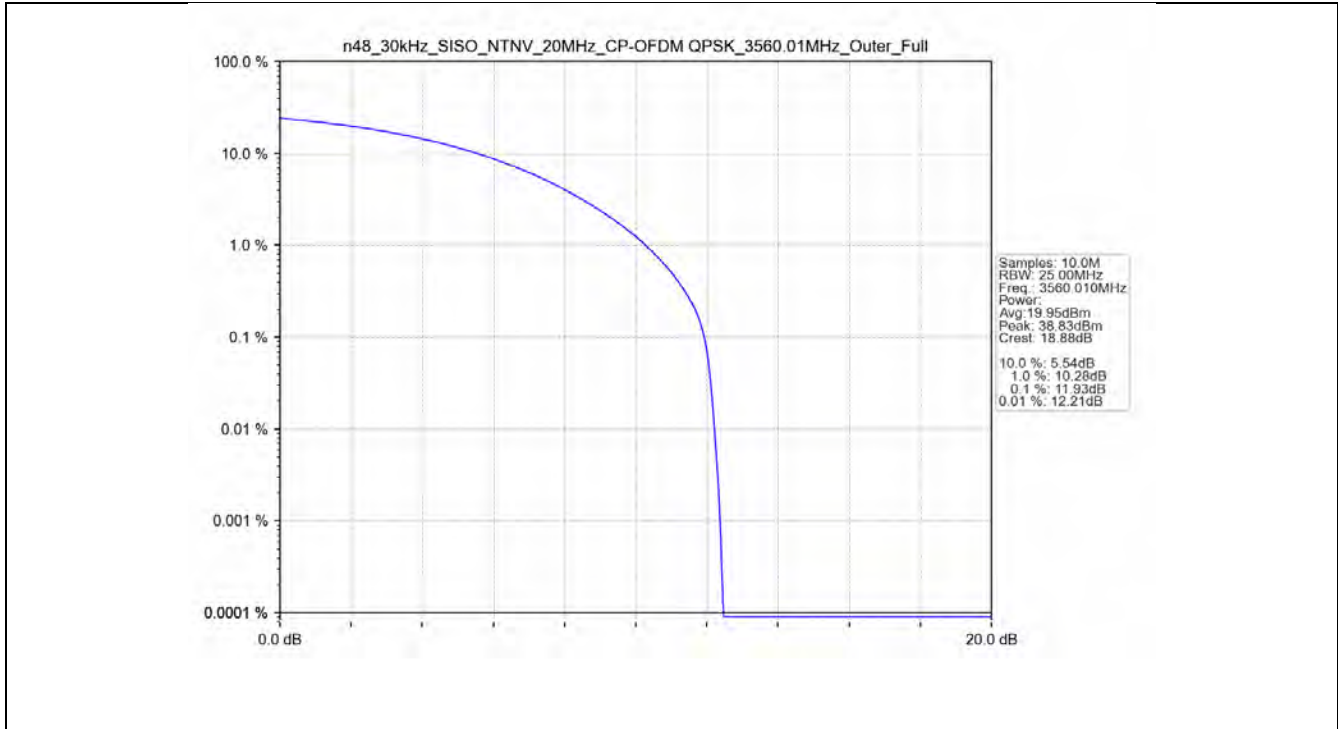


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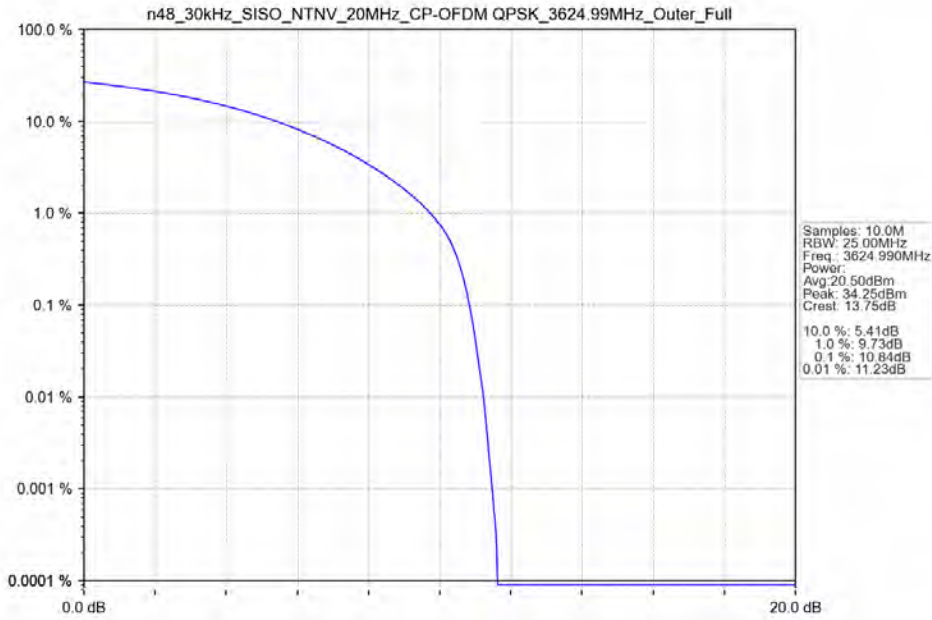
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n48_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3690MHz_Outer_Full



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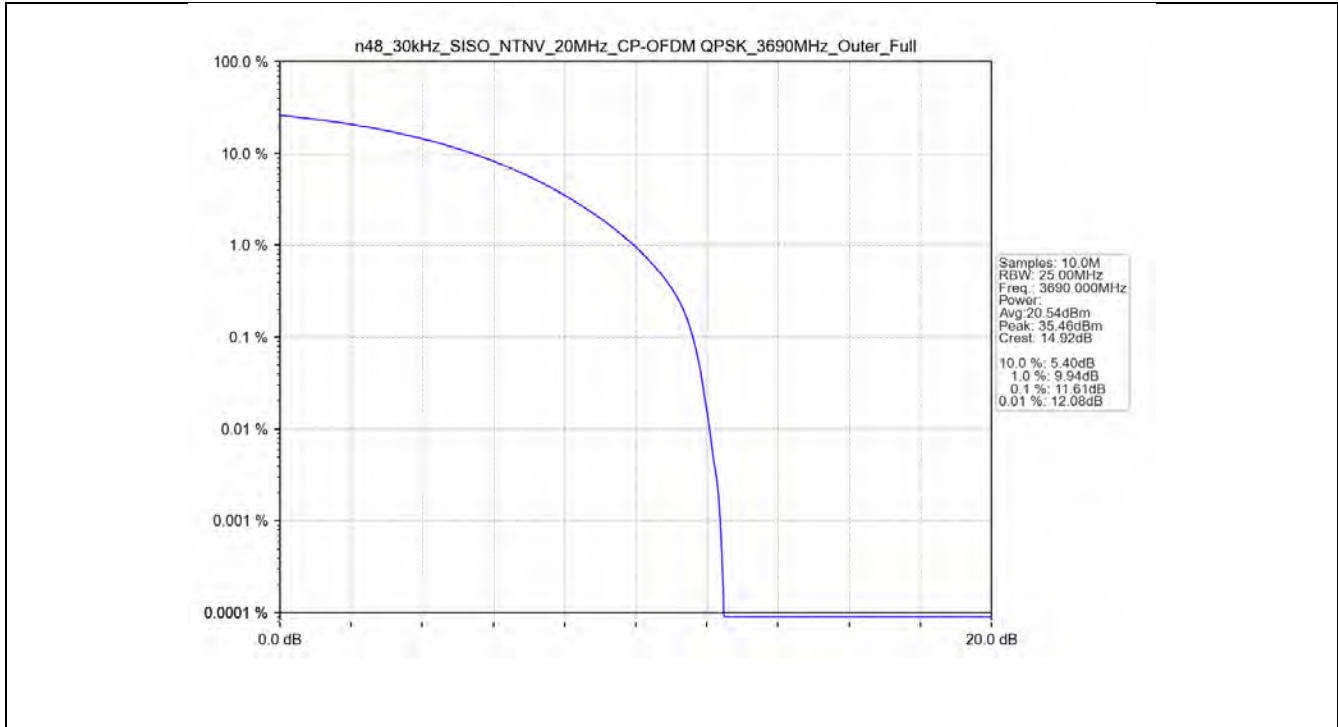


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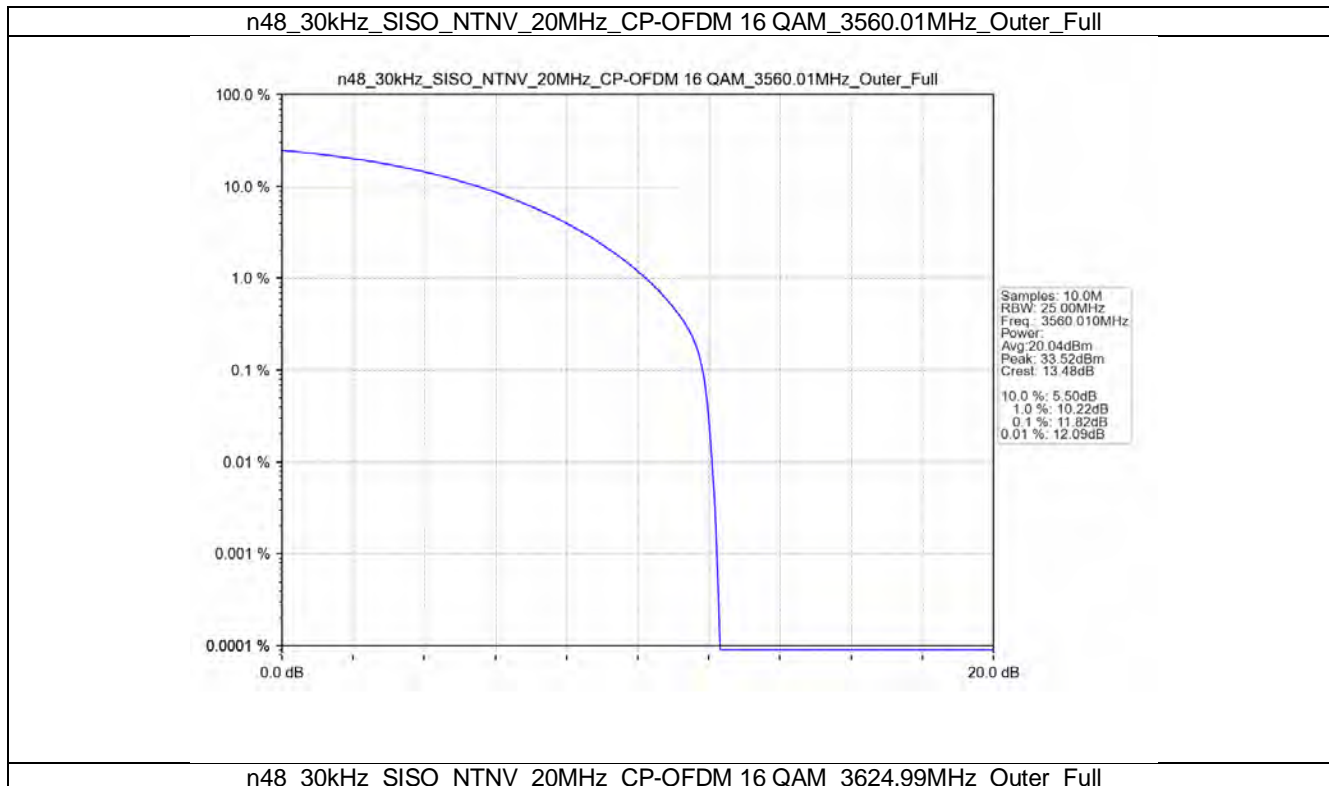
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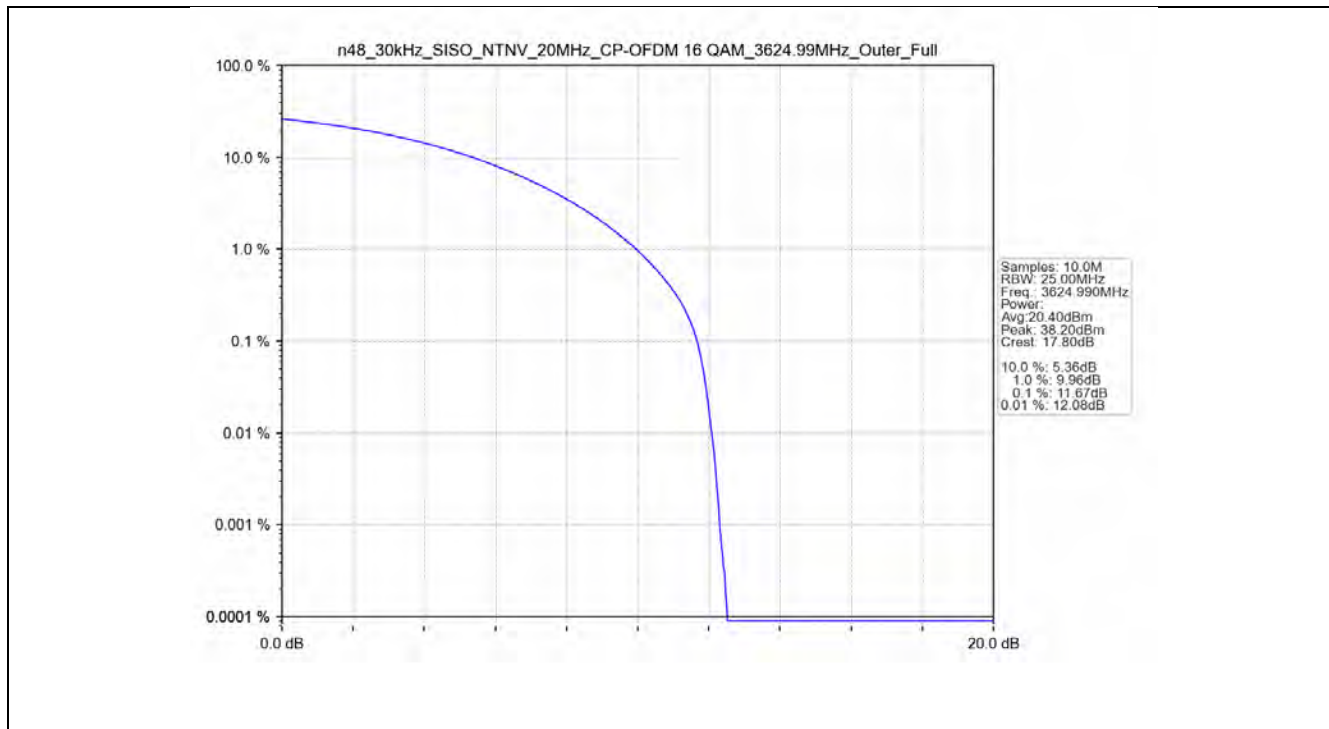
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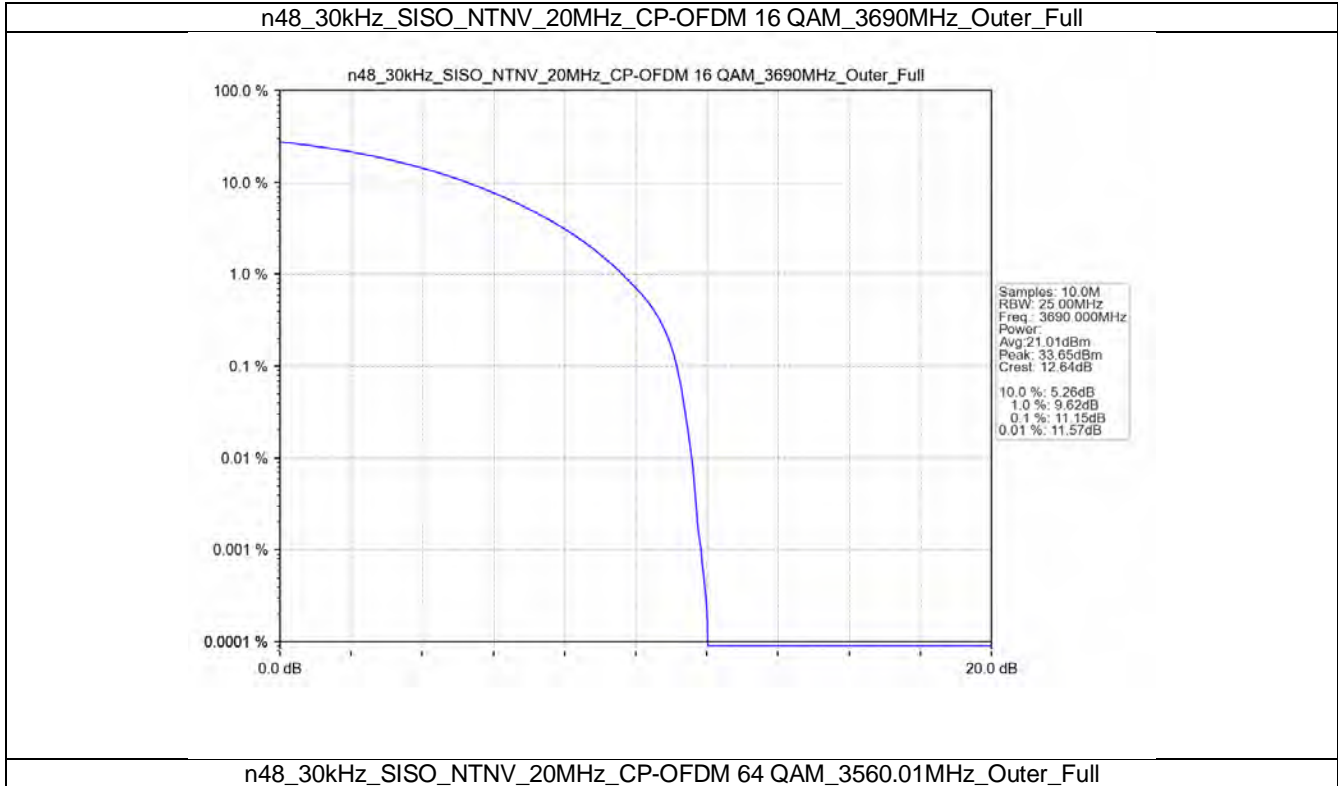


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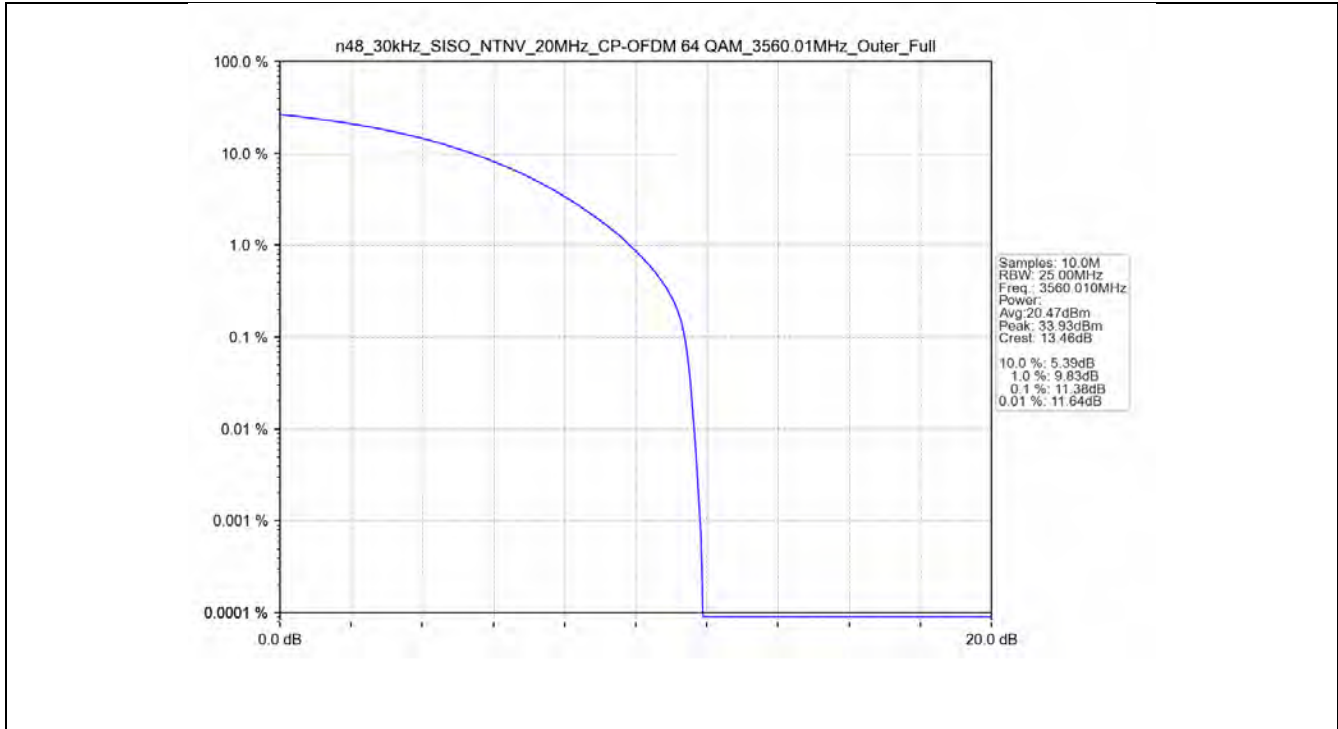


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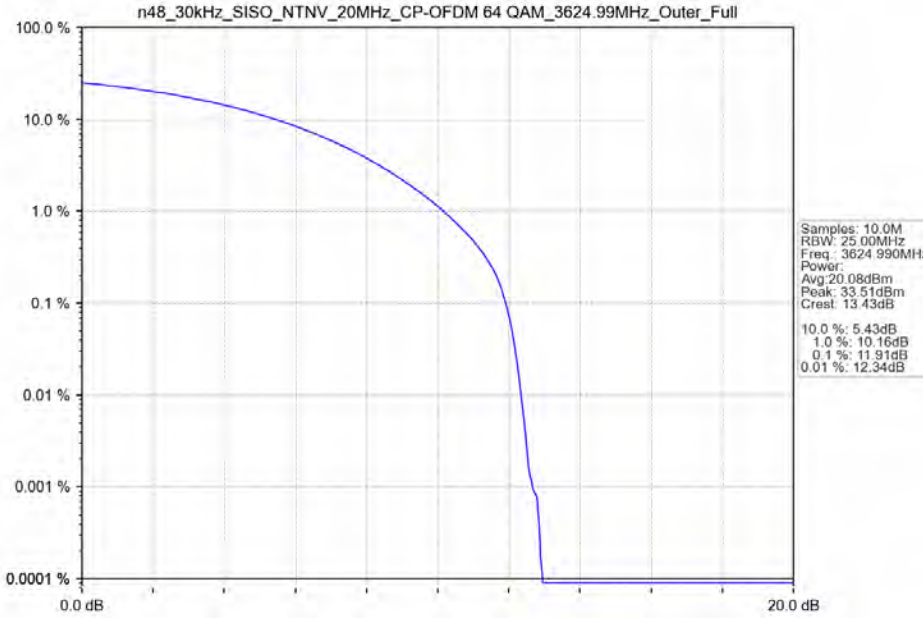
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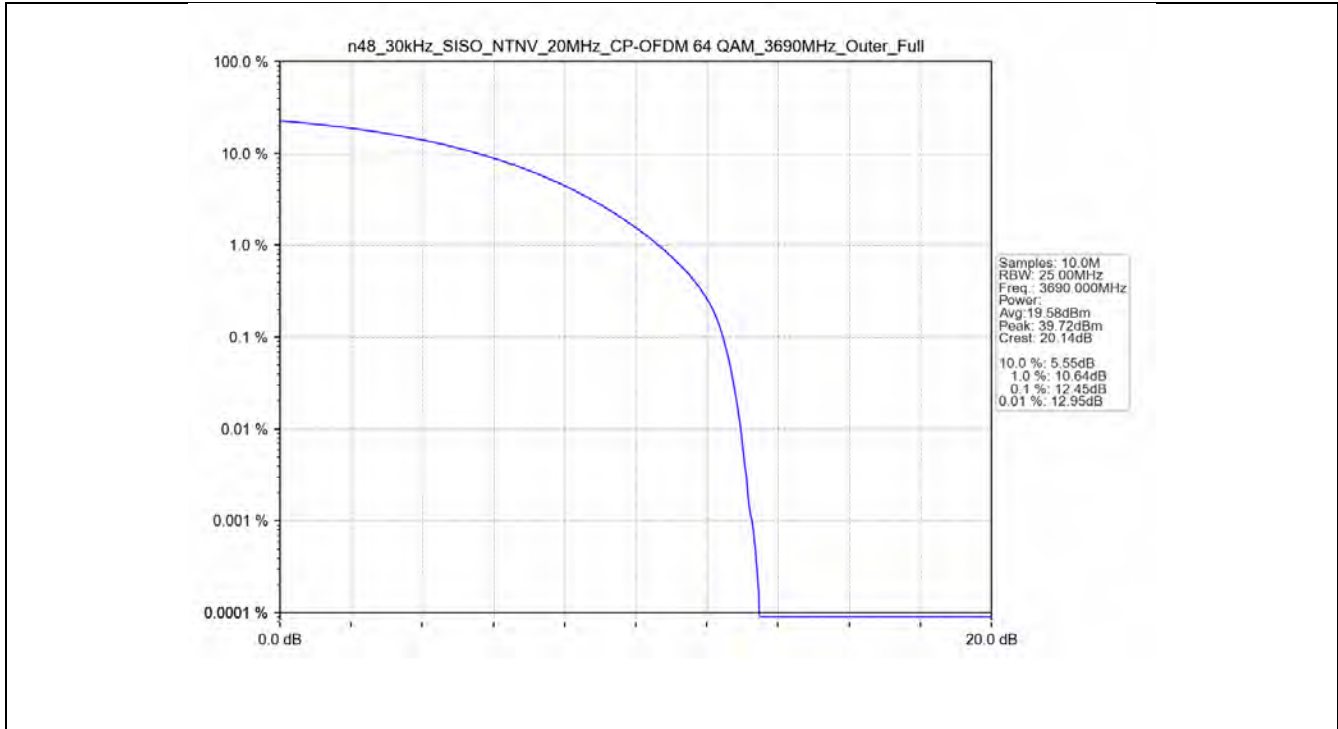
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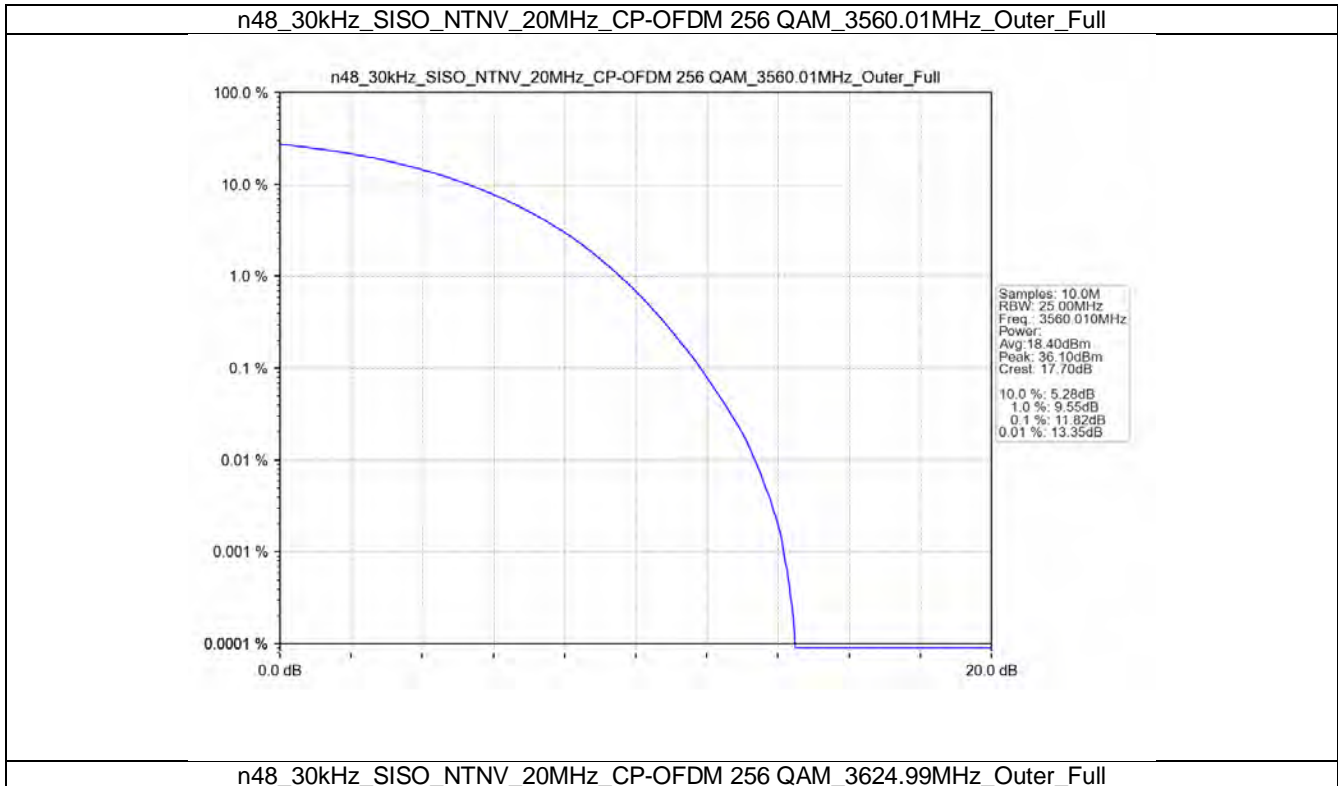


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