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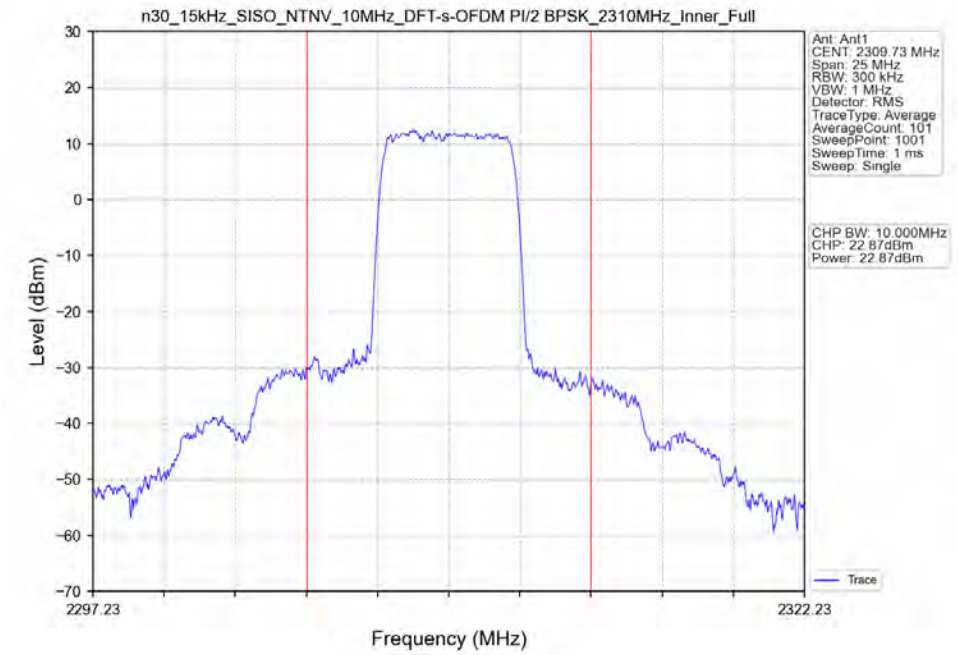

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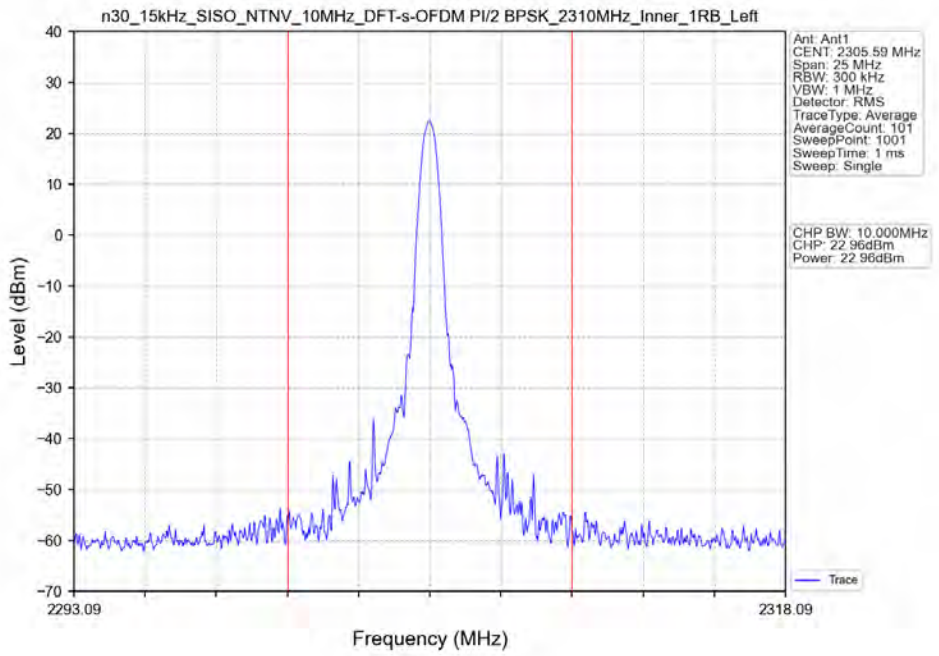
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2310MHz_Inner_1RB_Left



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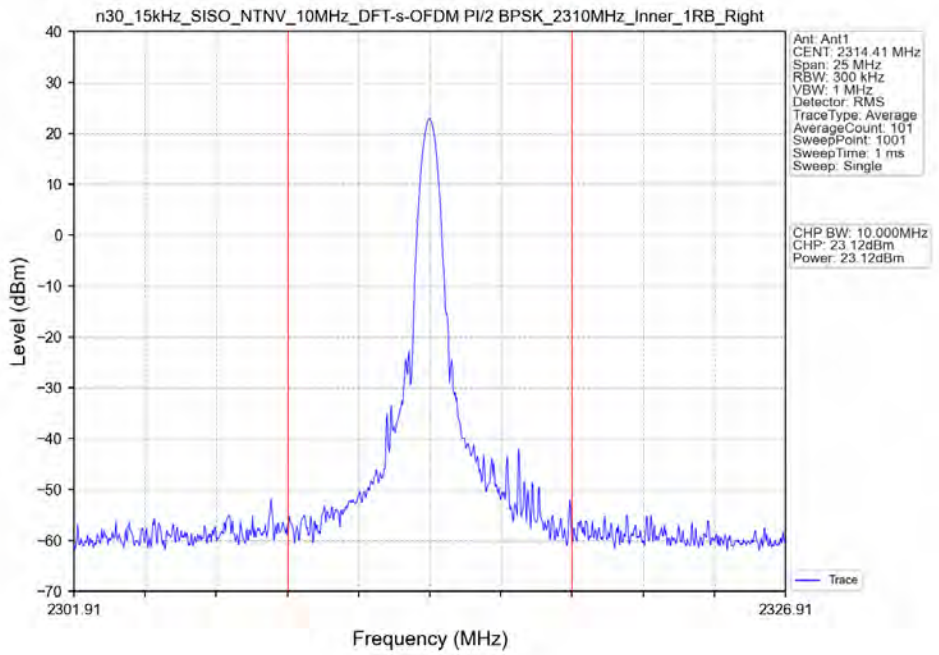

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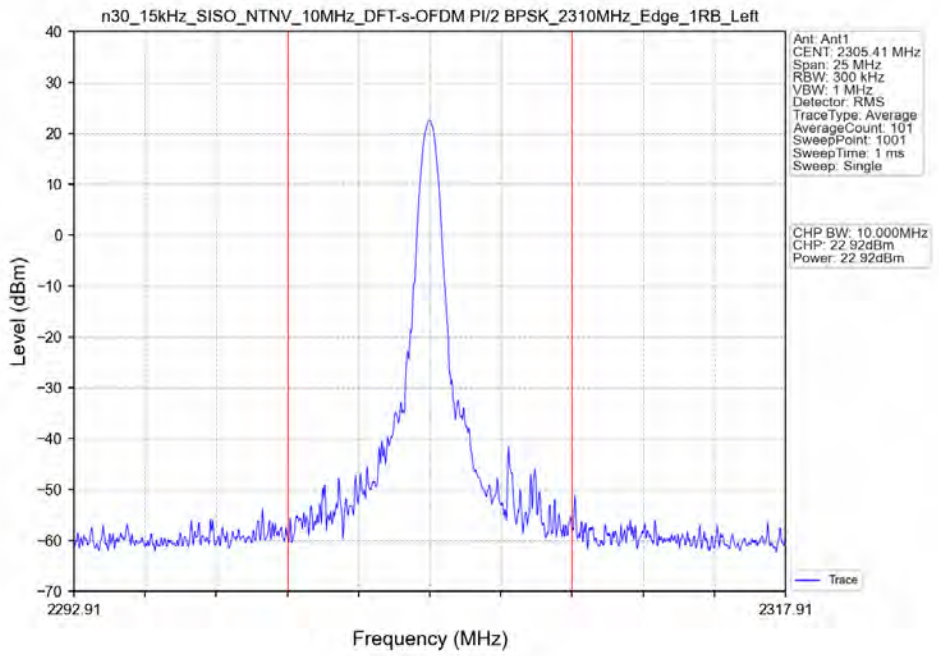

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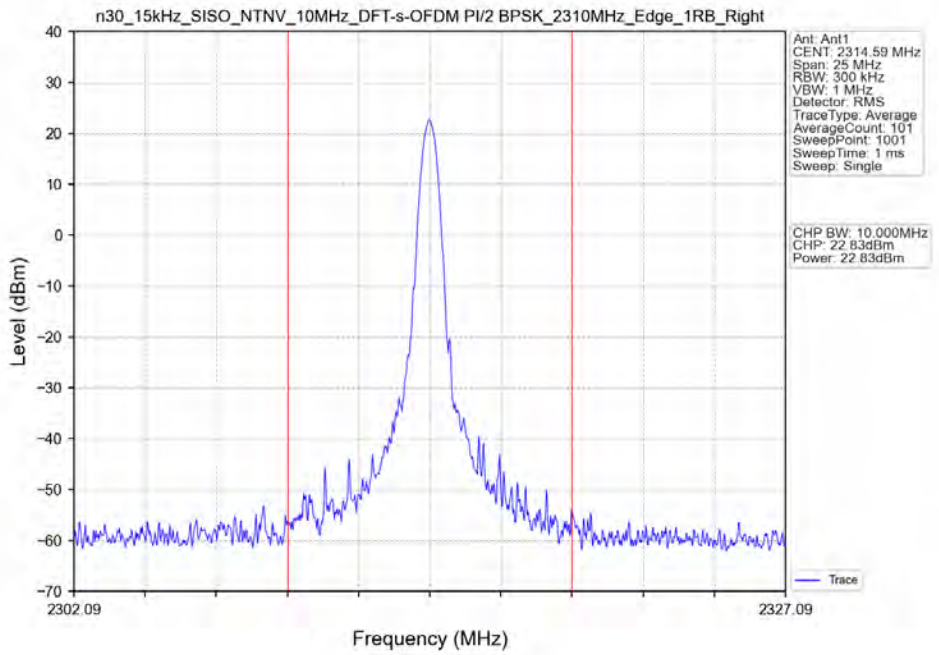

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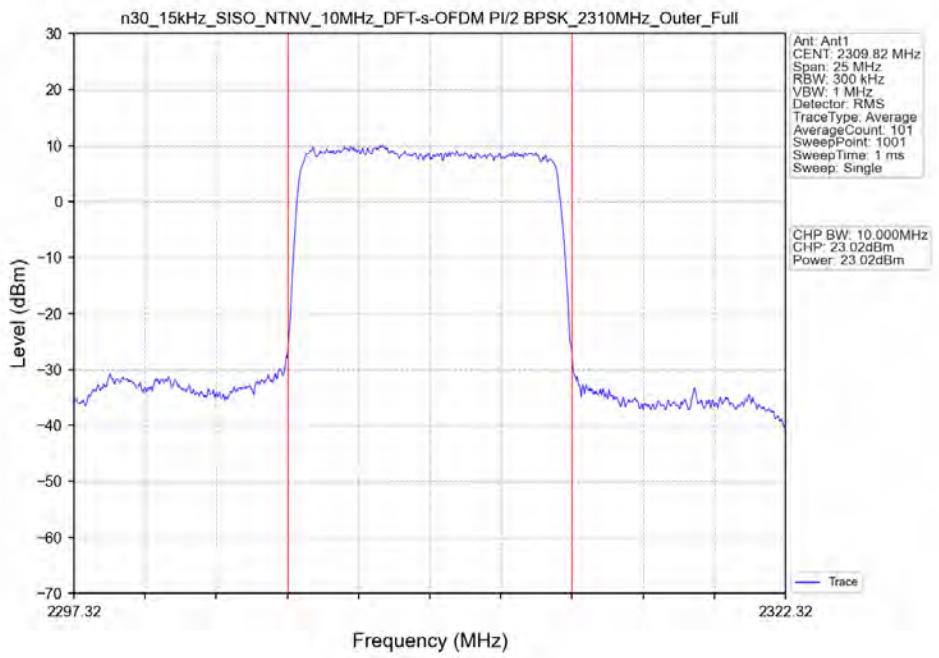

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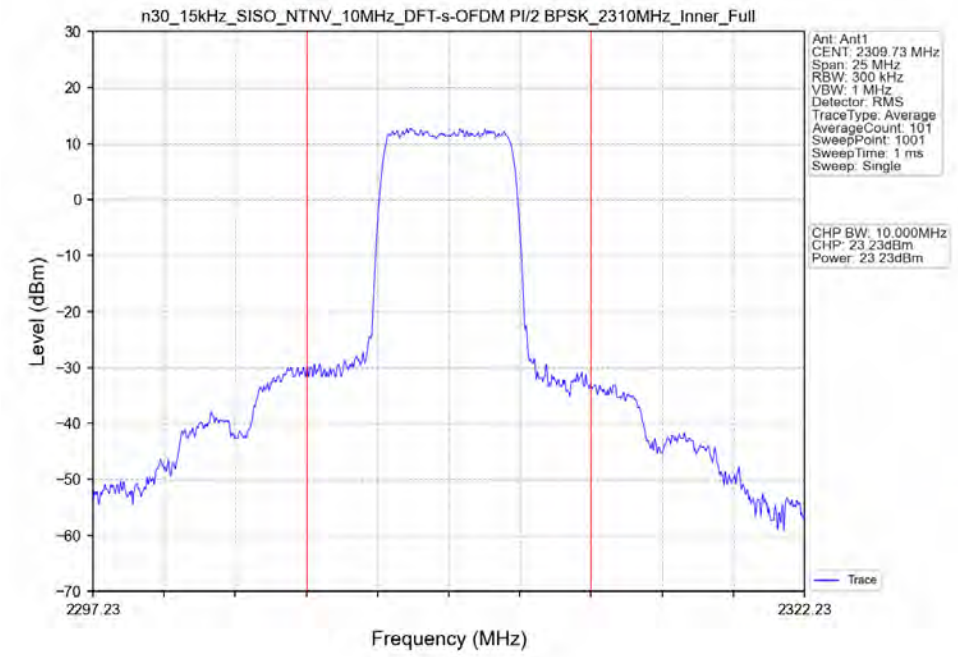

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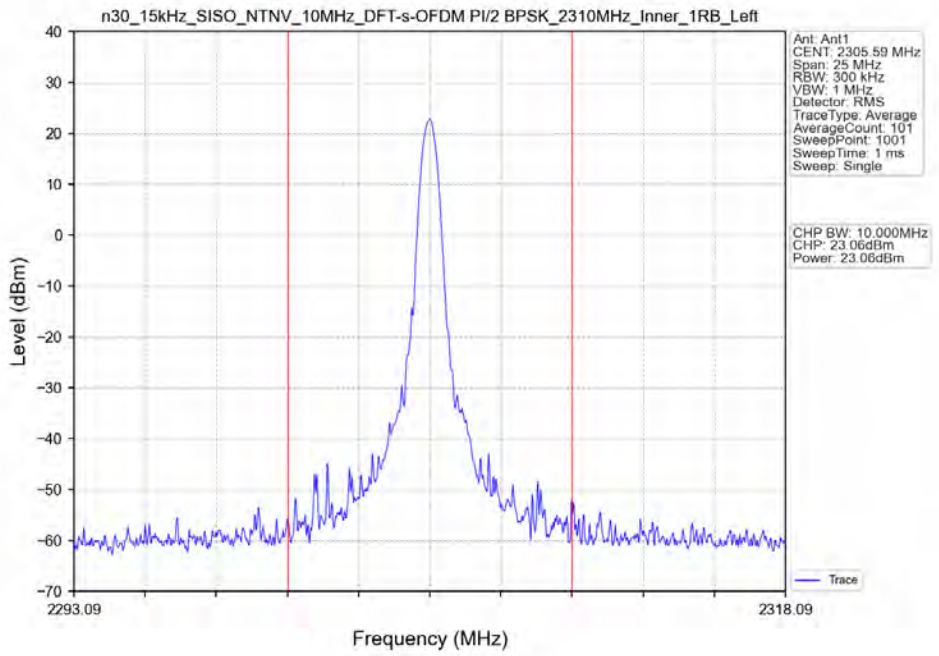

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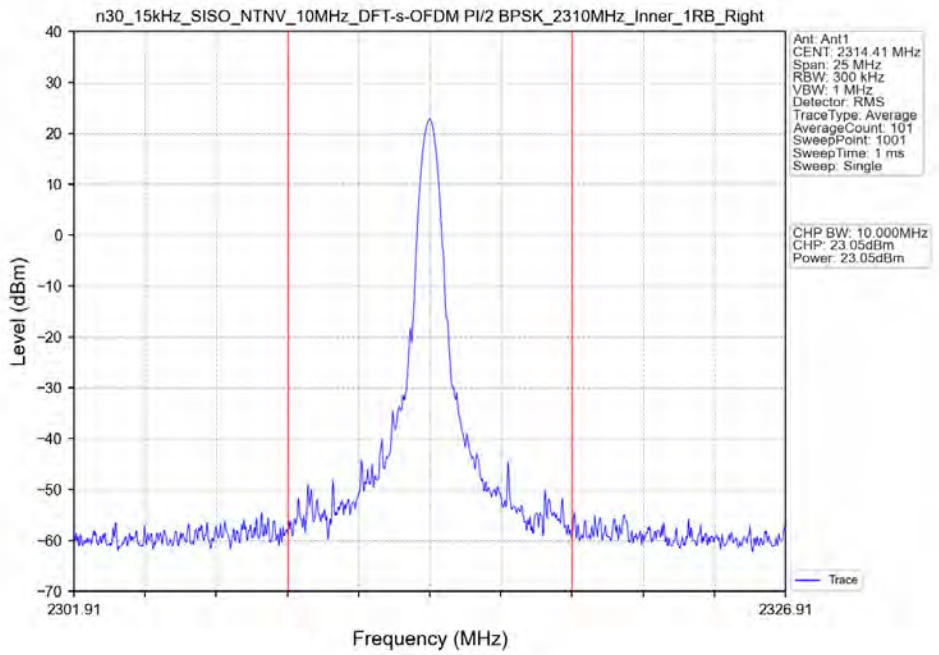

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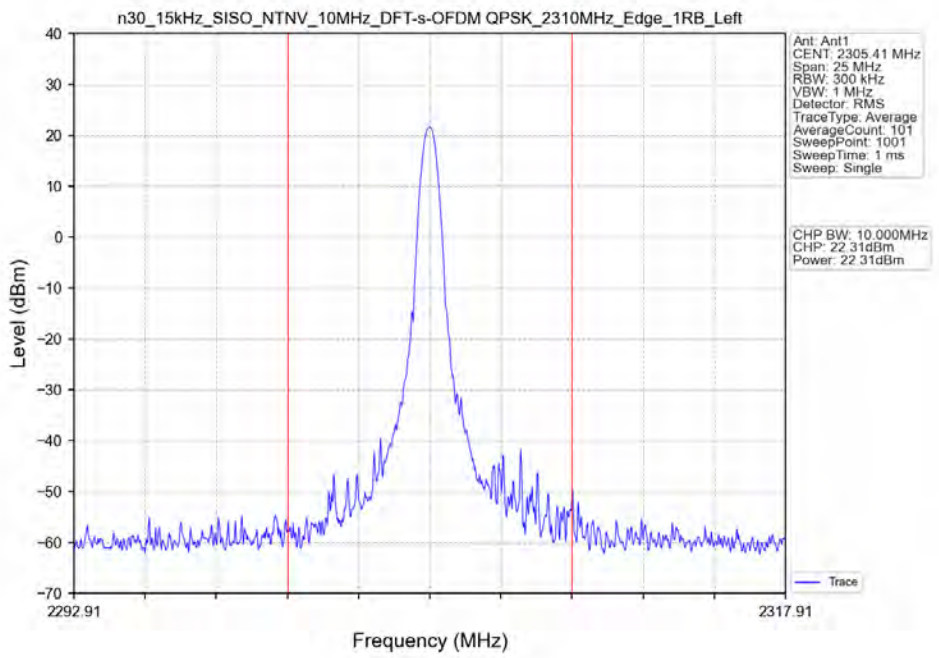

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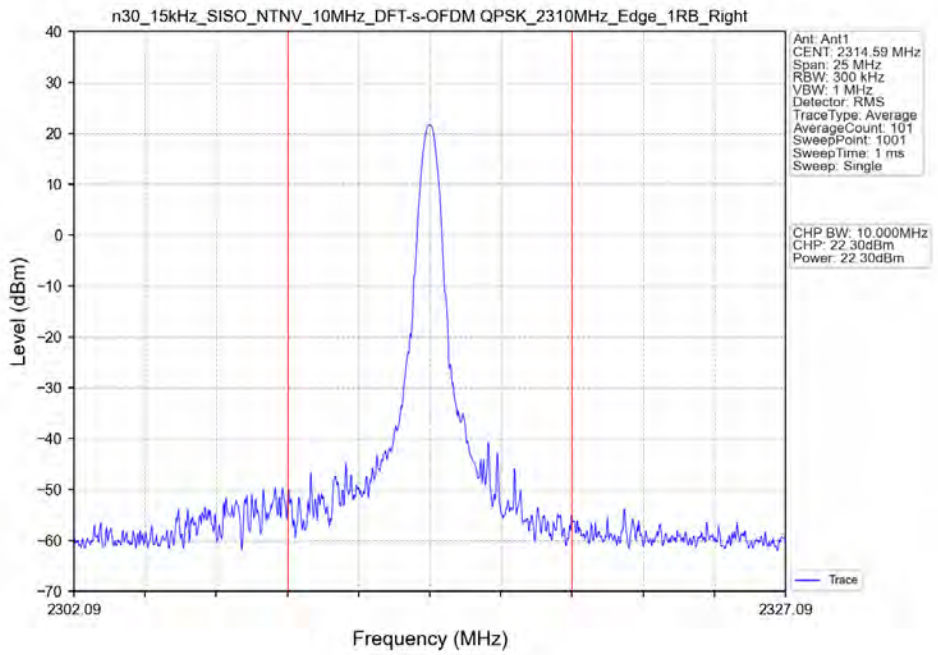

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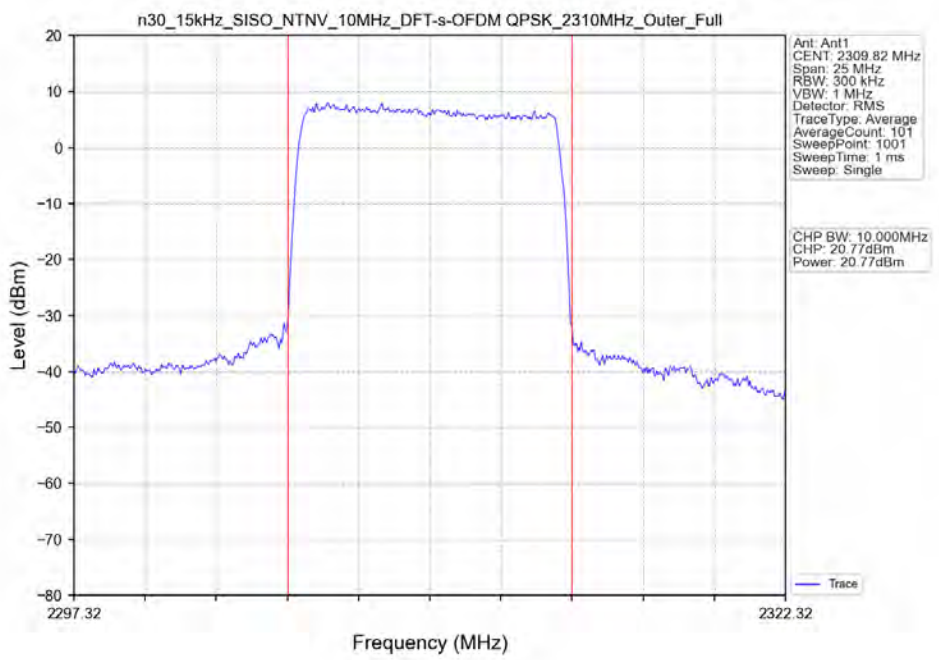

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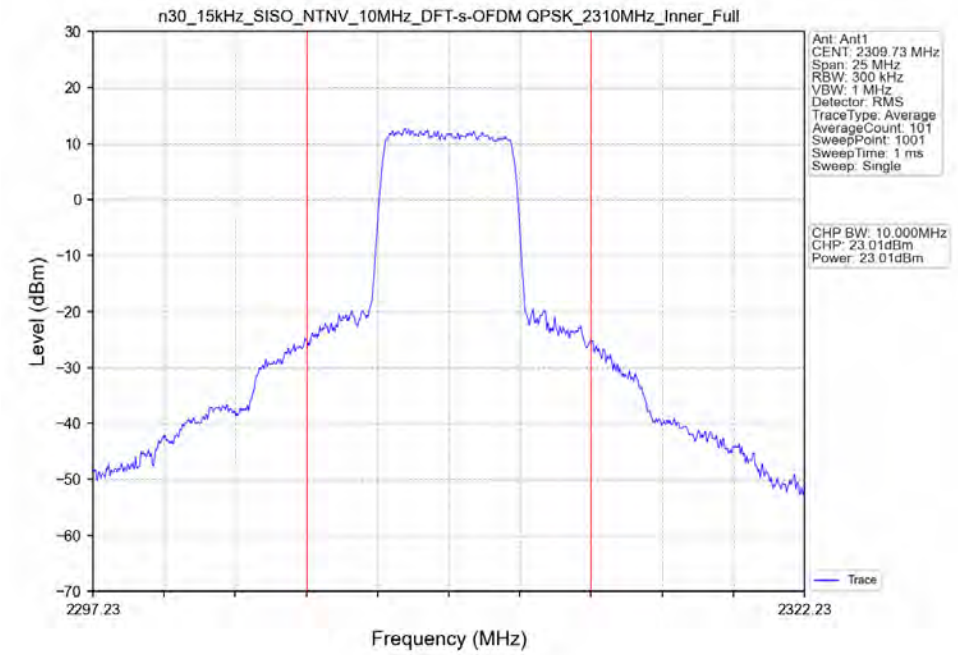

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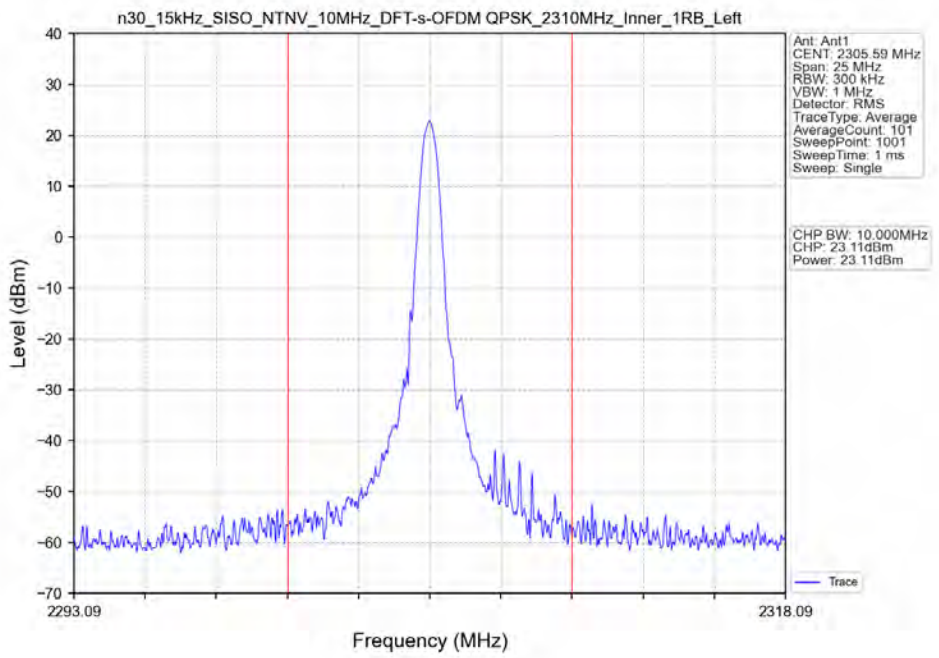

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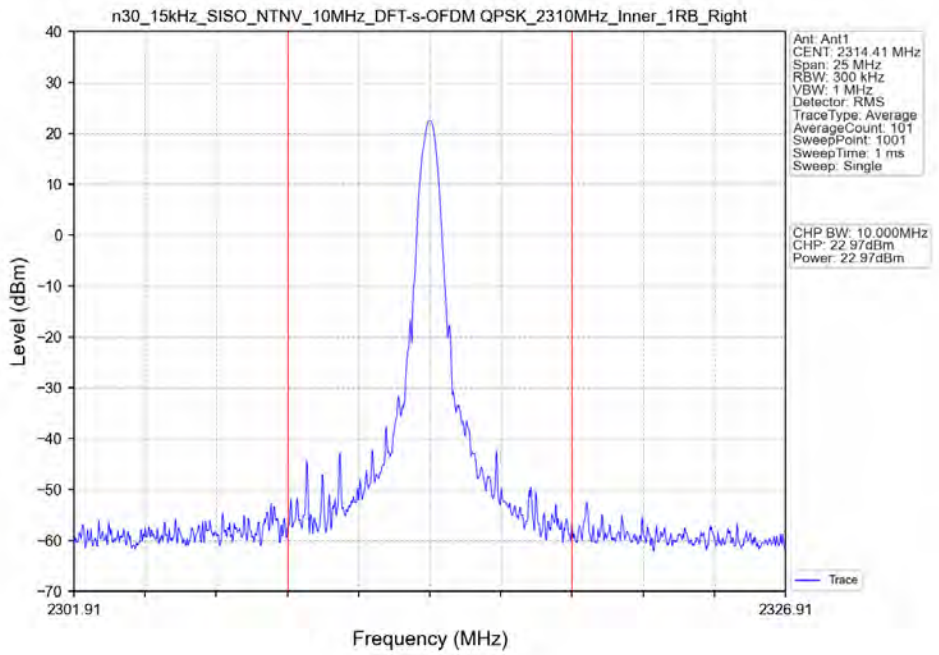

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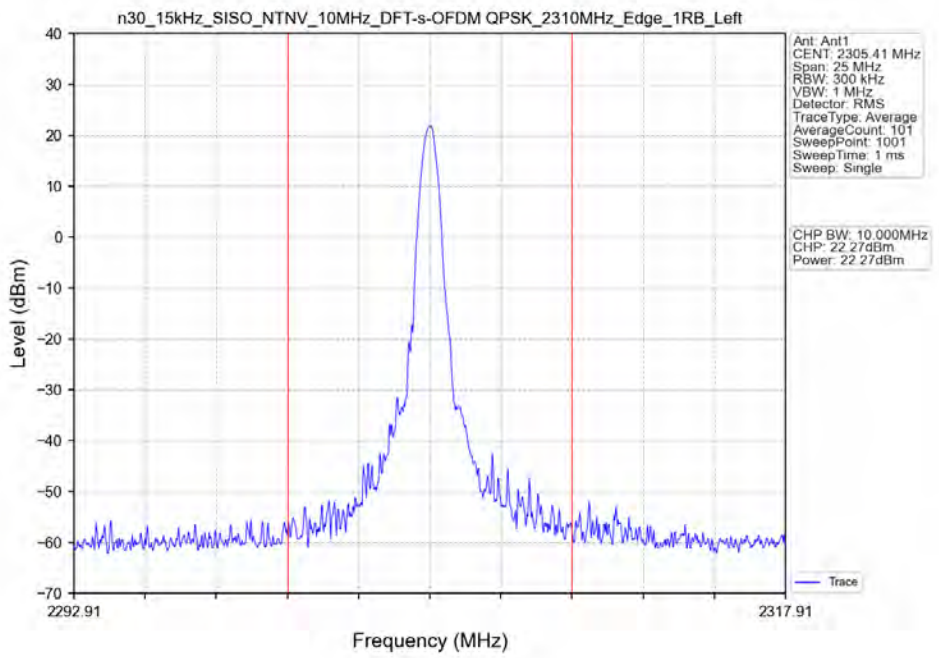
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2310MHz_Edge_1RB_Left



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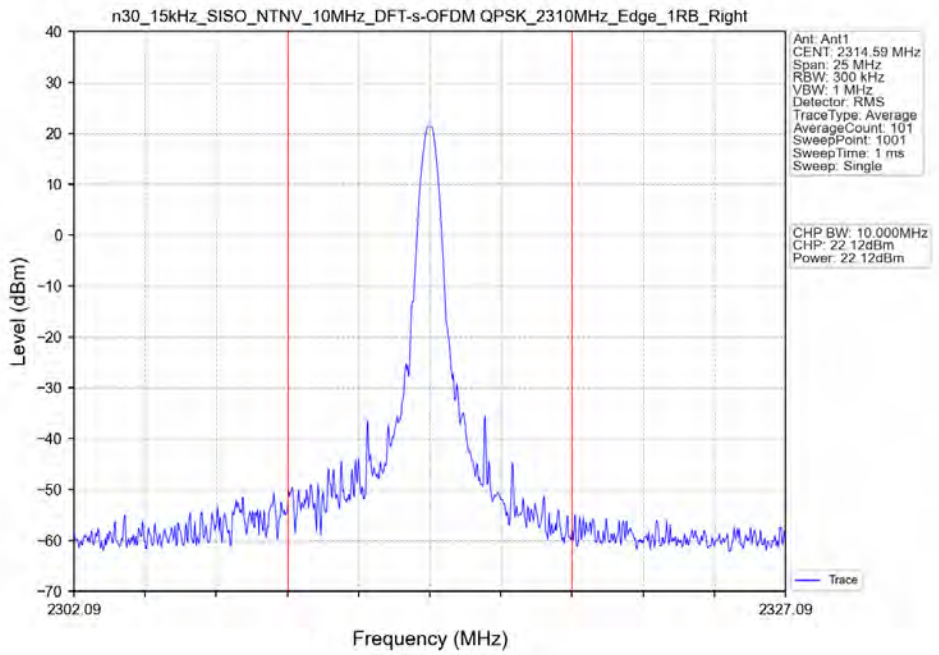

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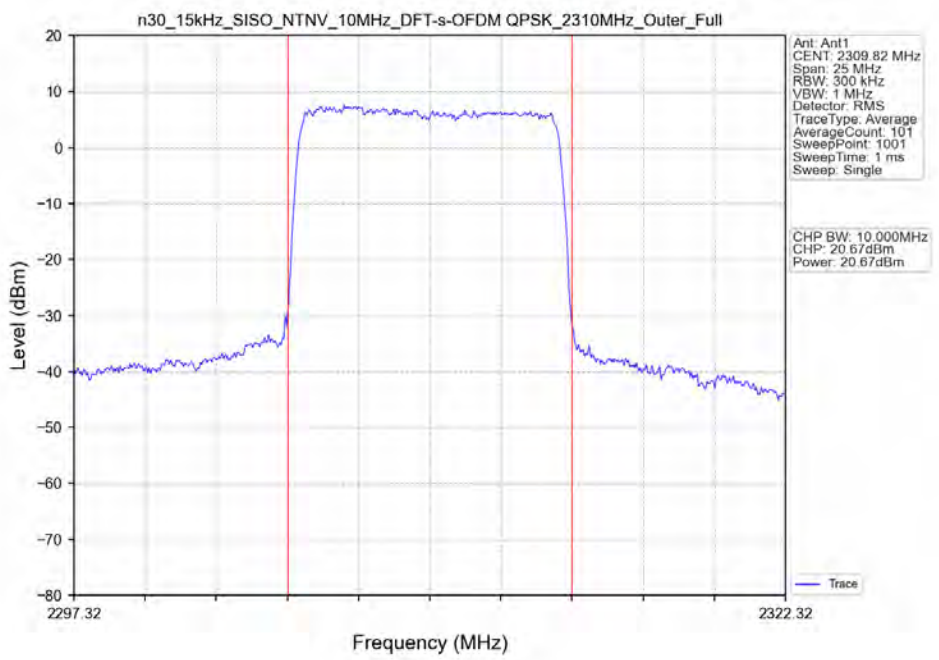

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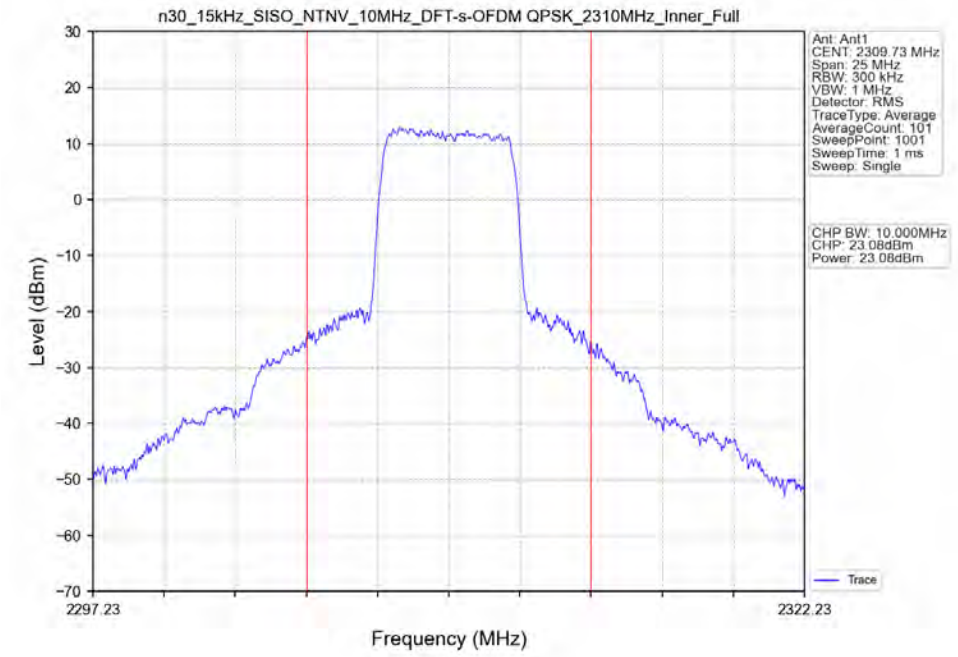

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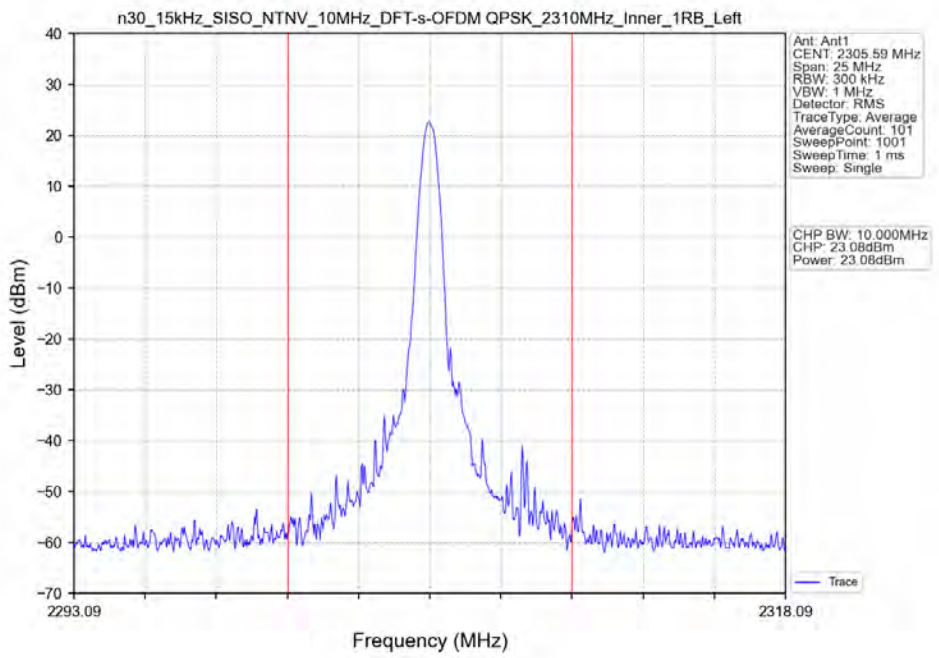

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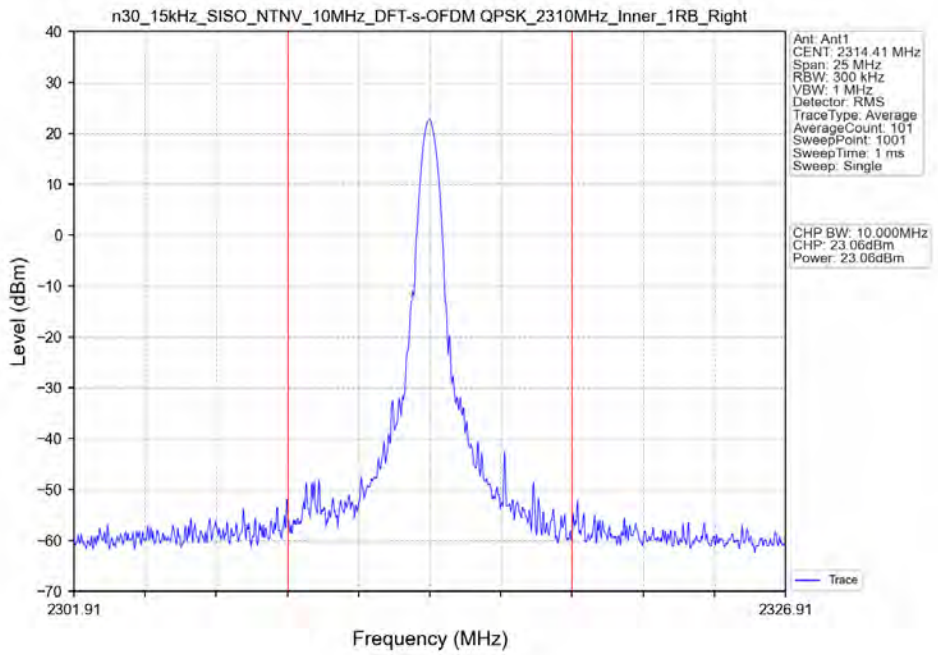

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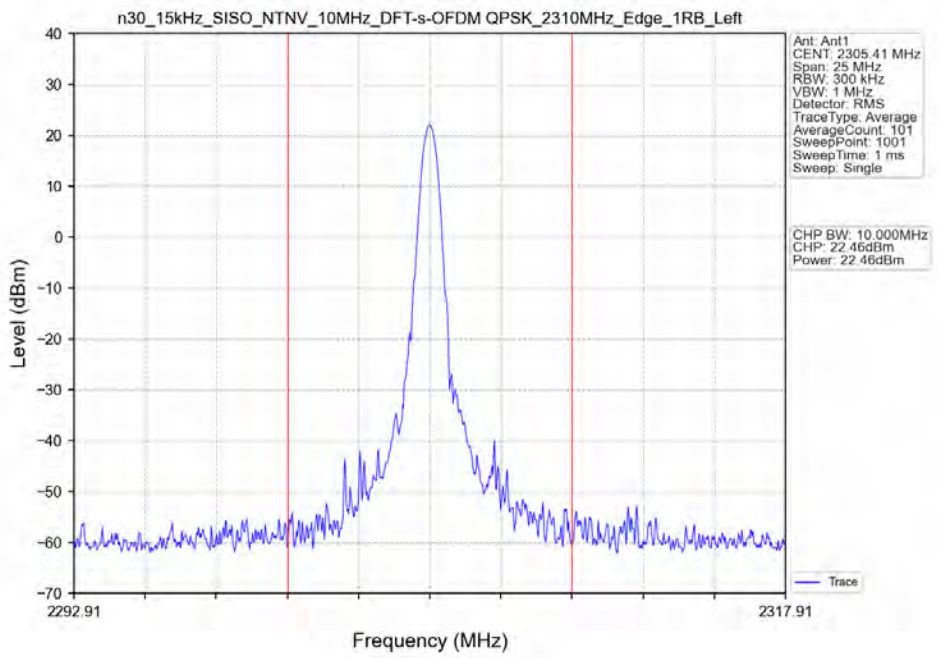

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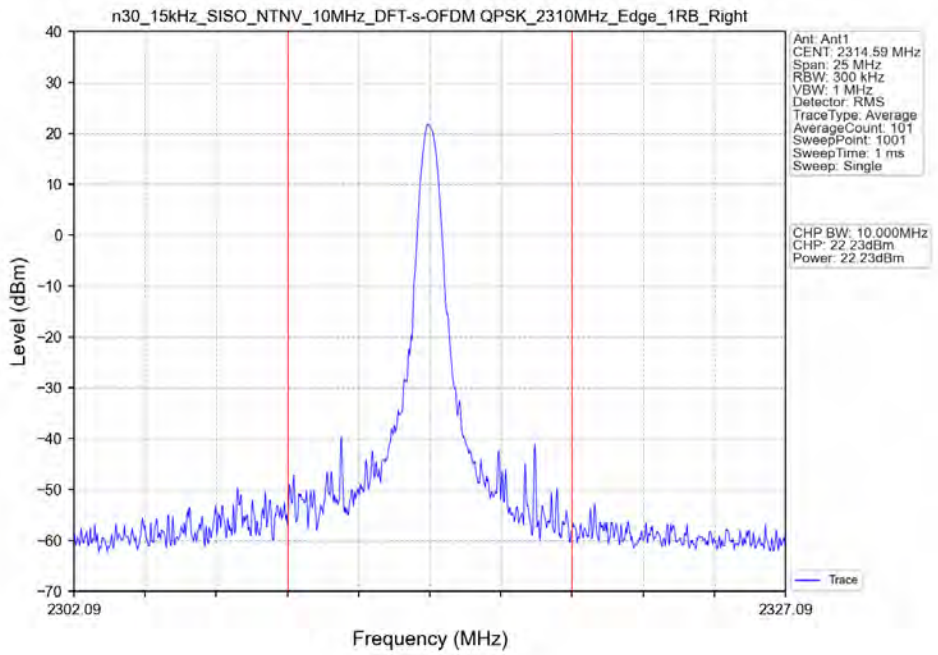

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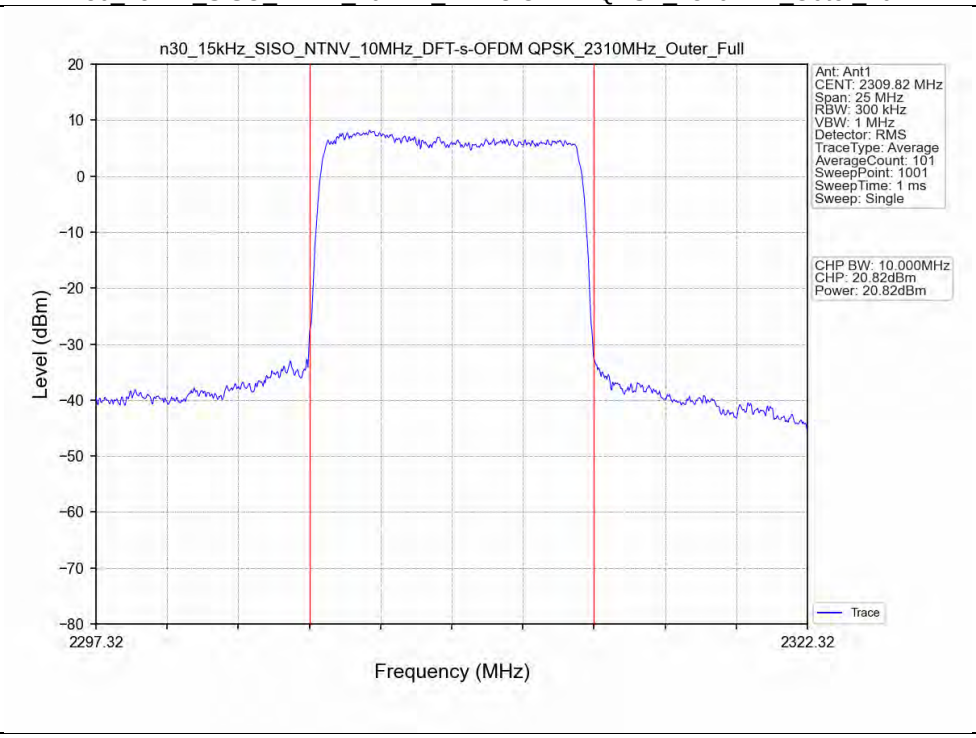

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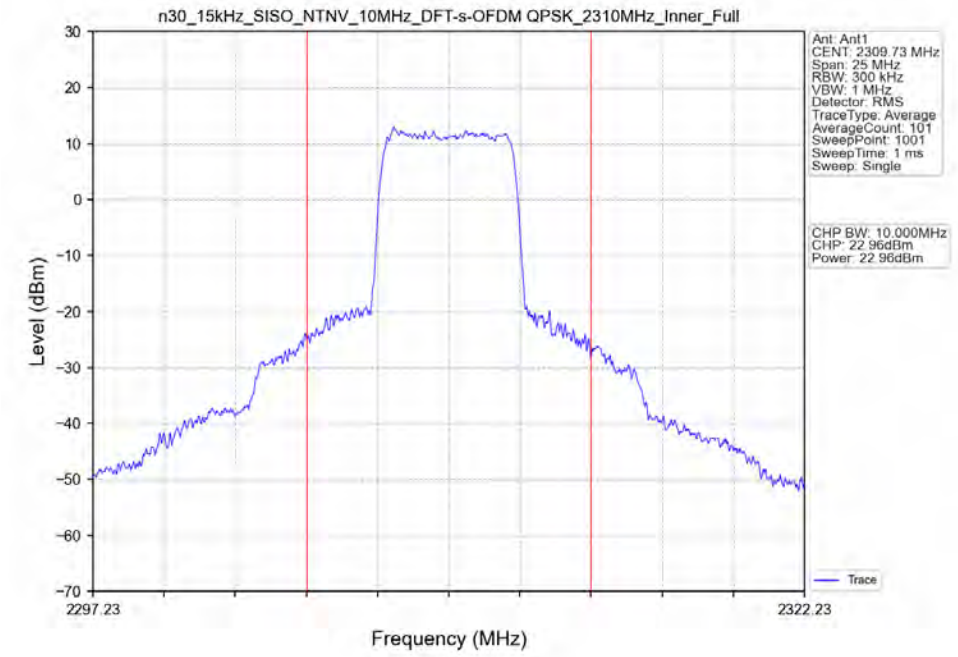

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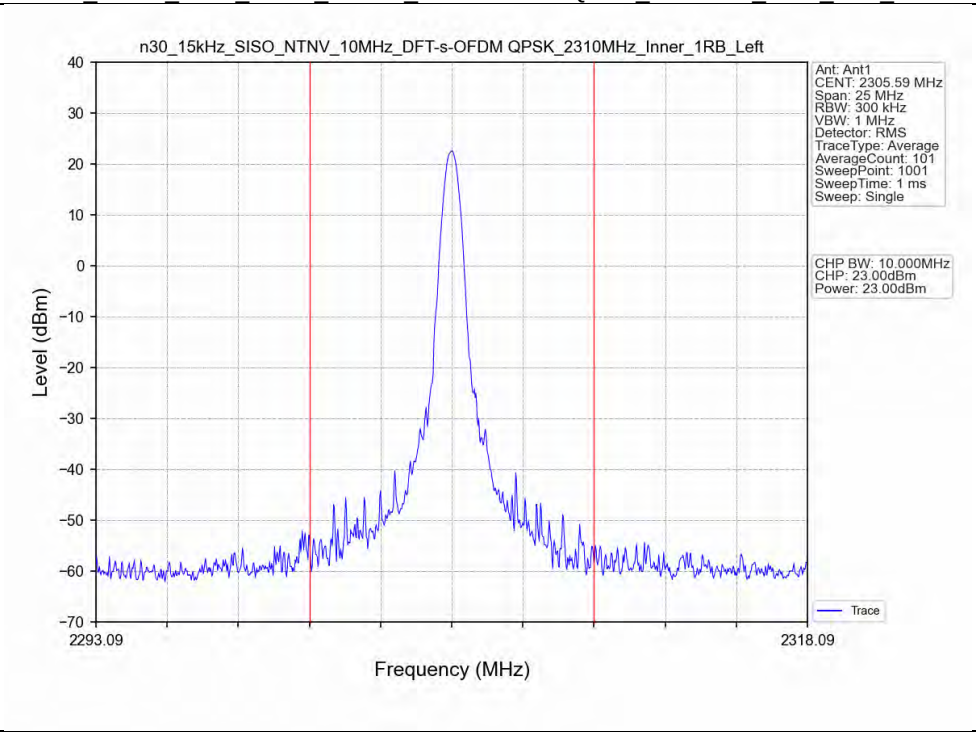

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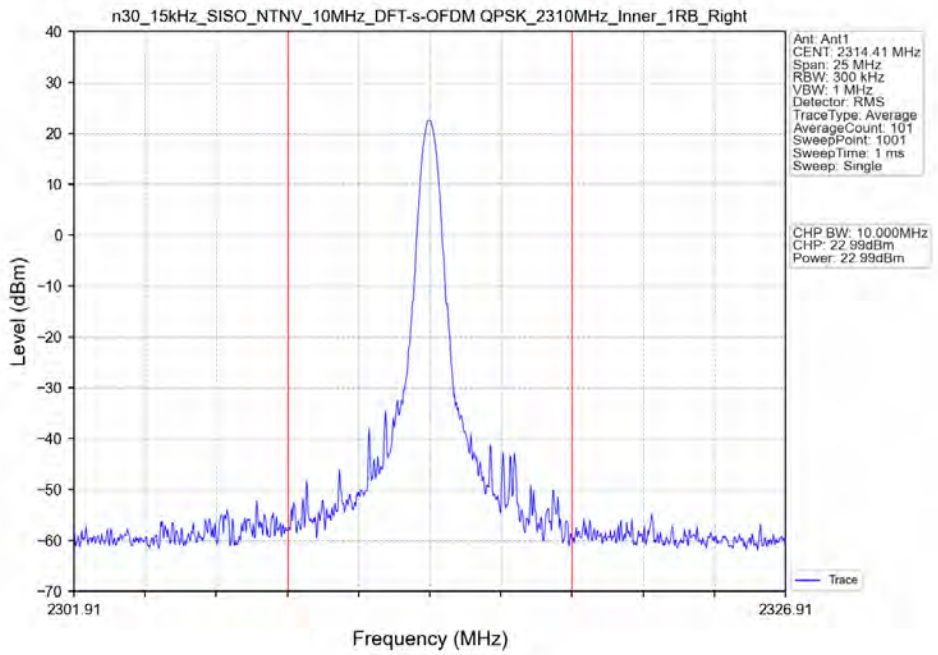

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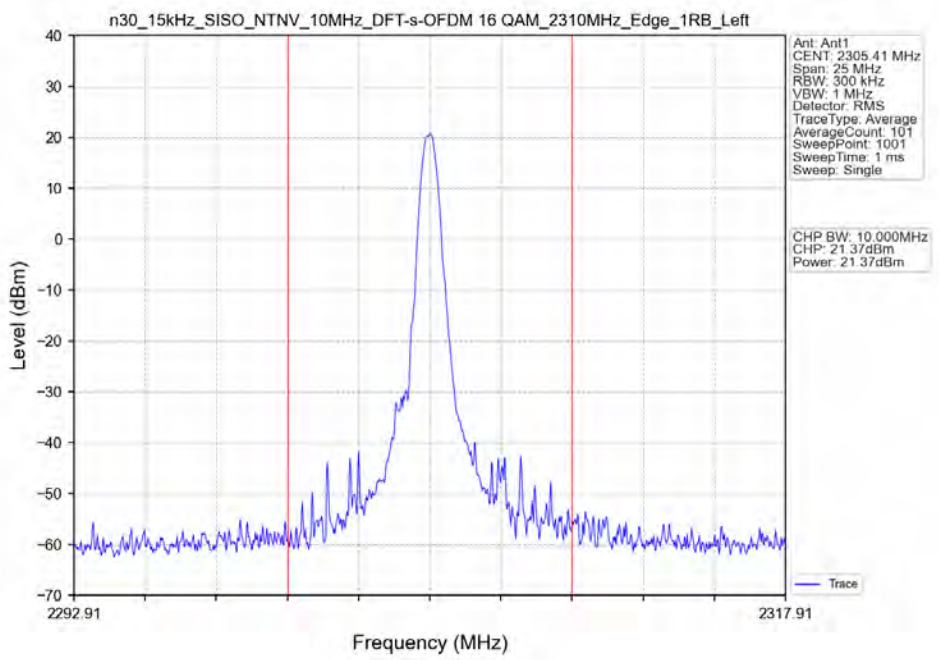
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_2310MHz_Edge_1RB_Left



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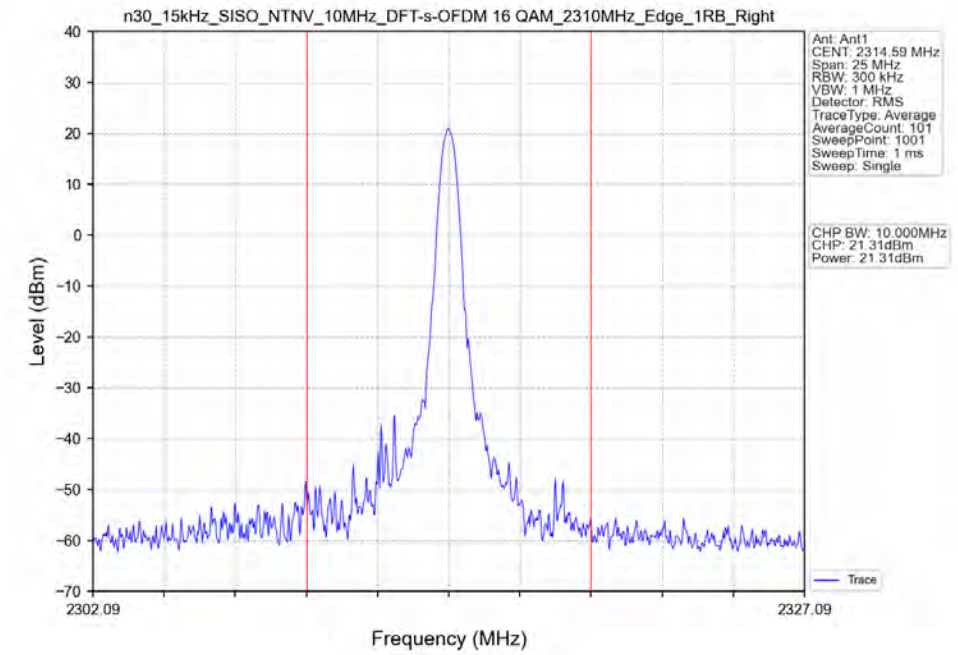

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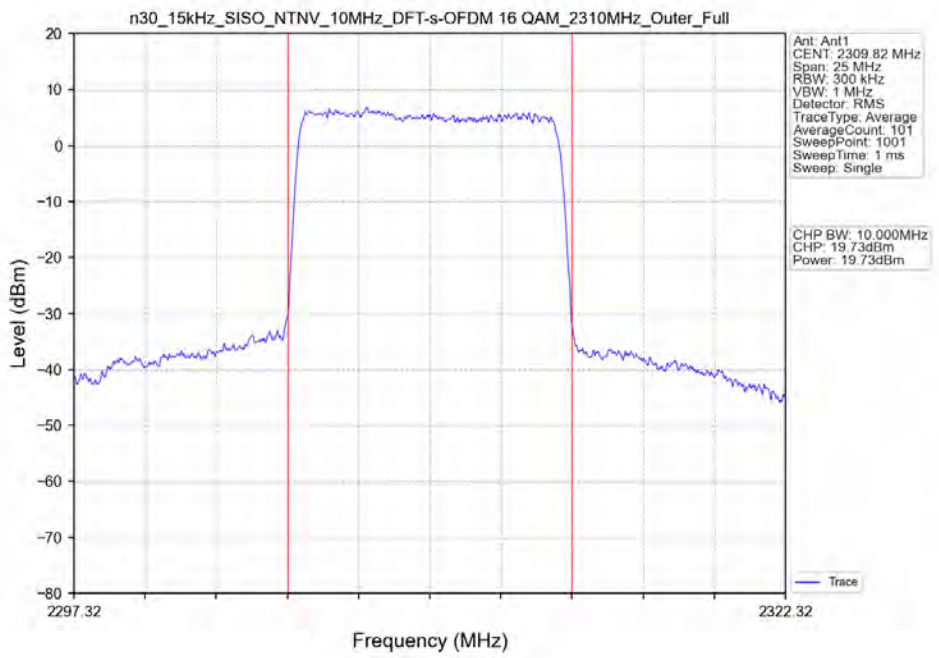

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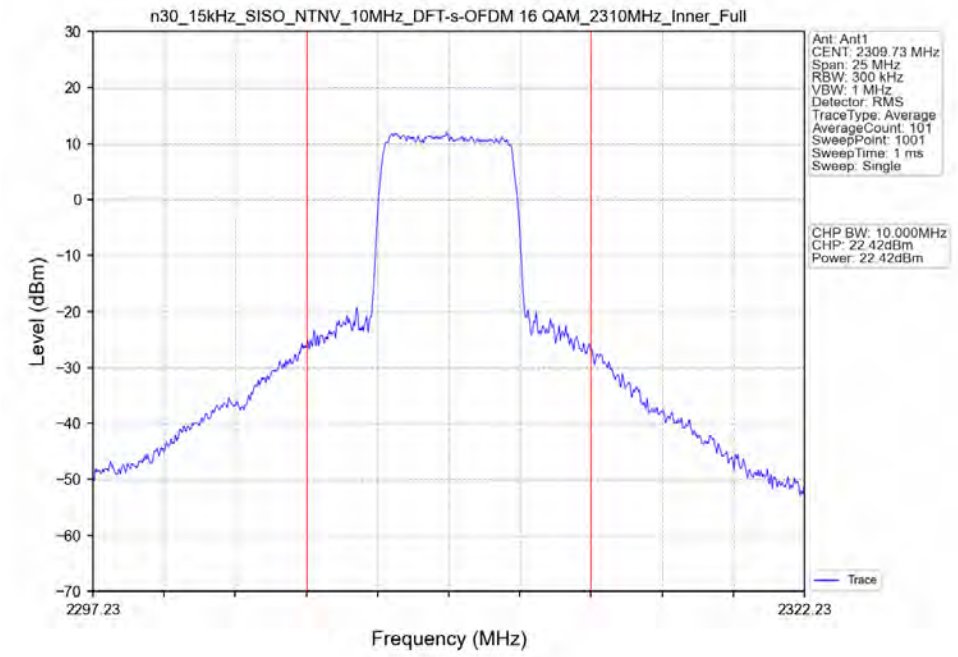

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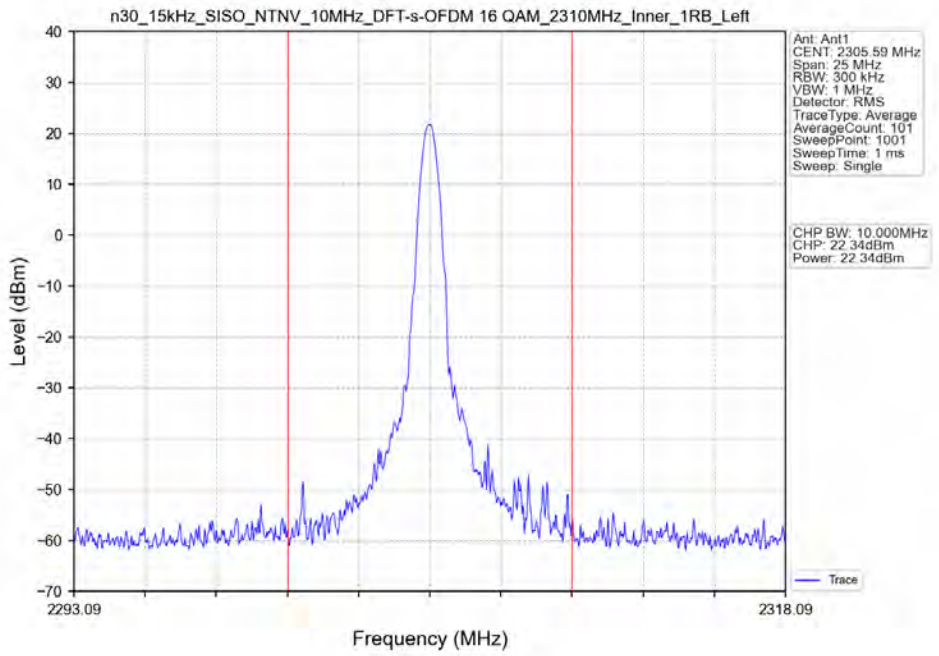

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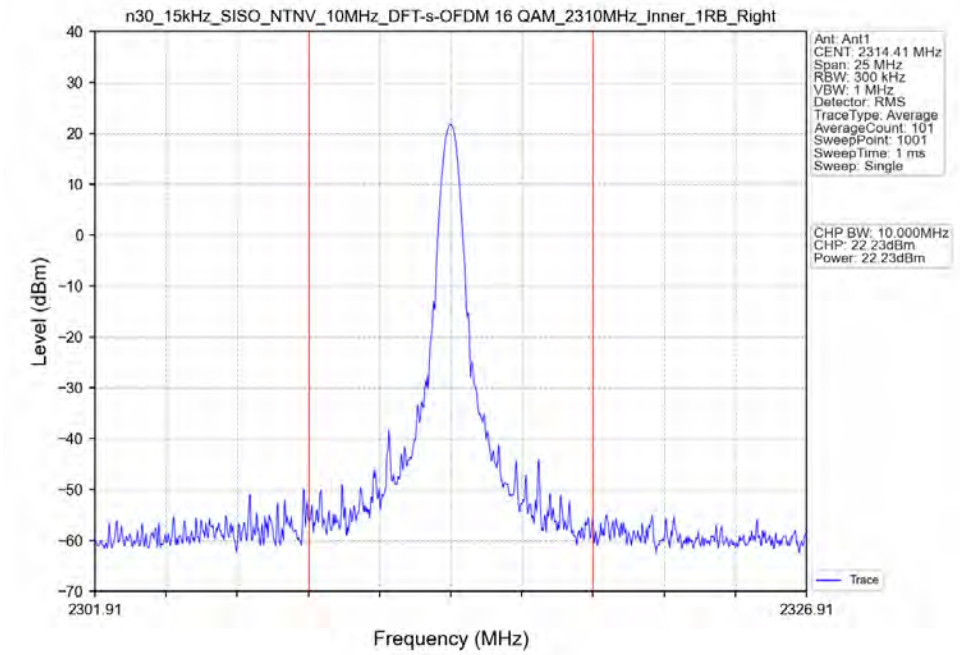

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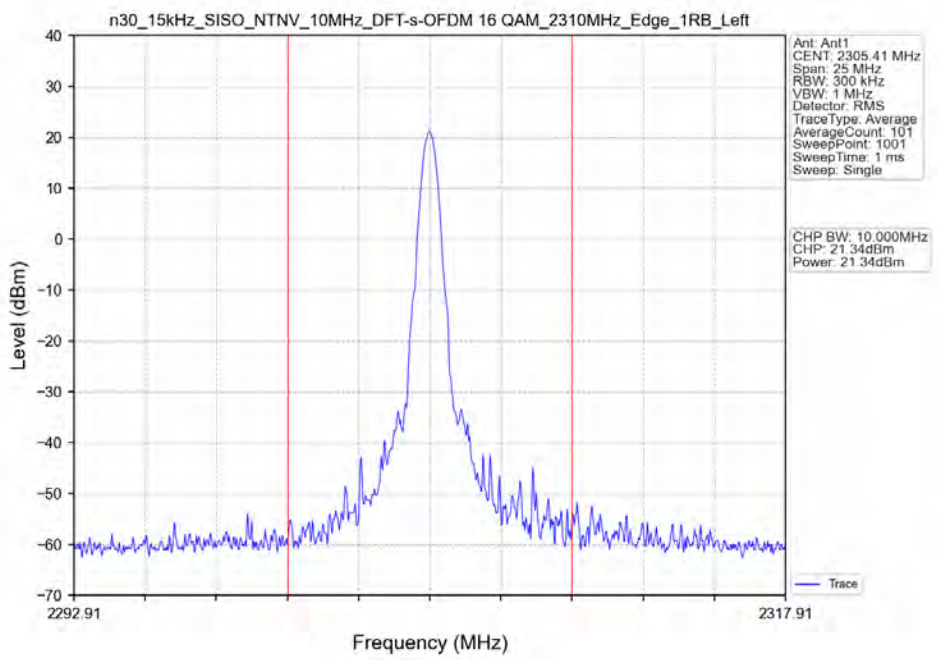

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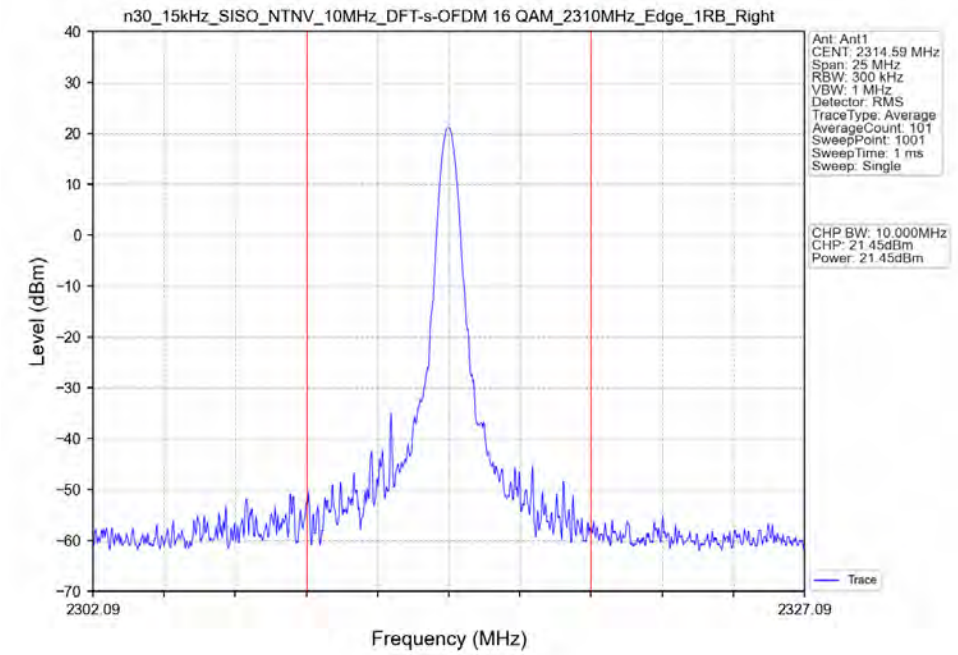

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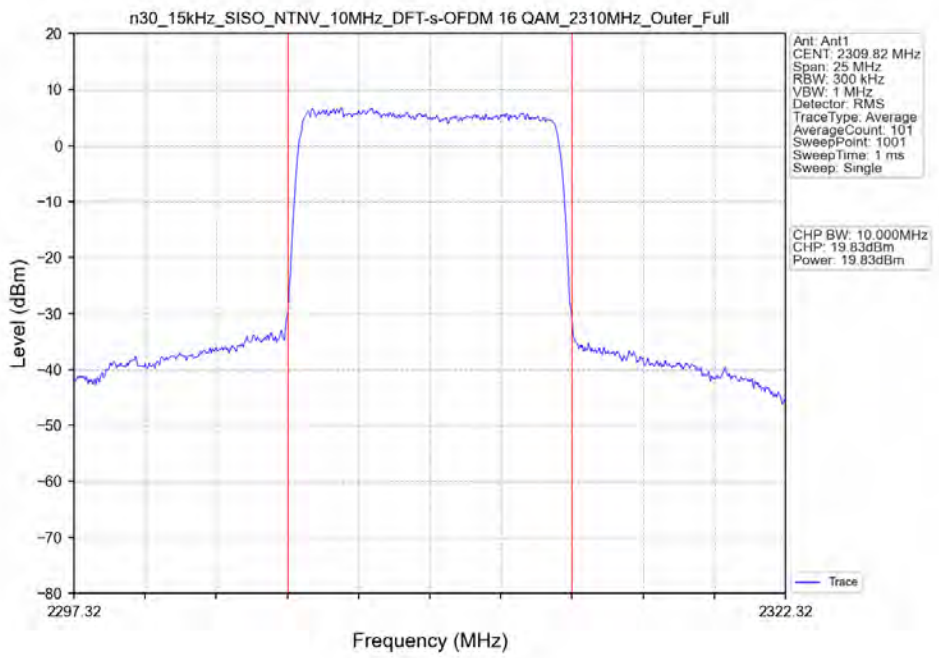

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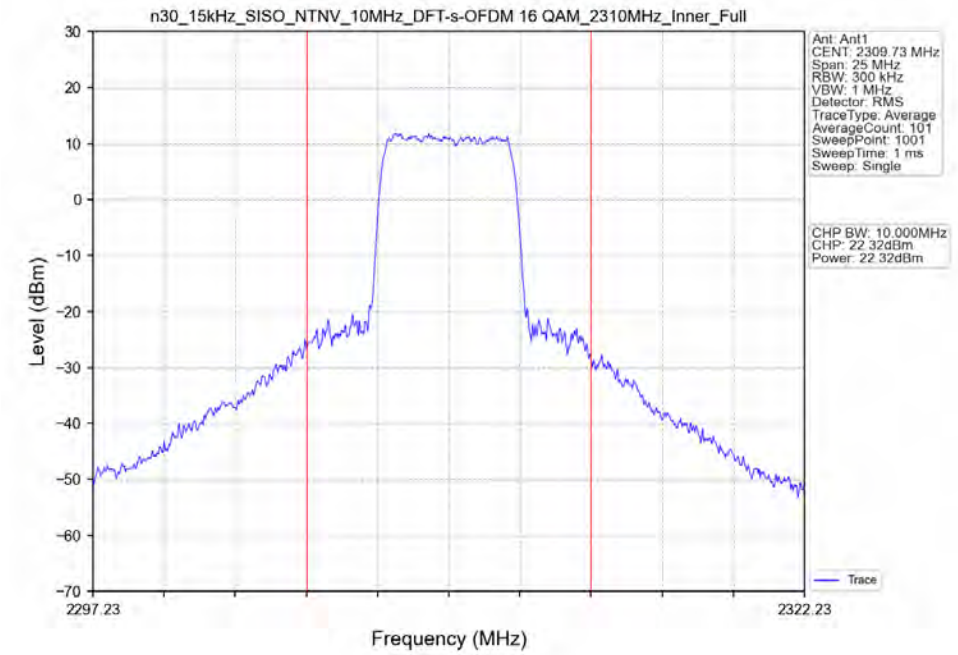

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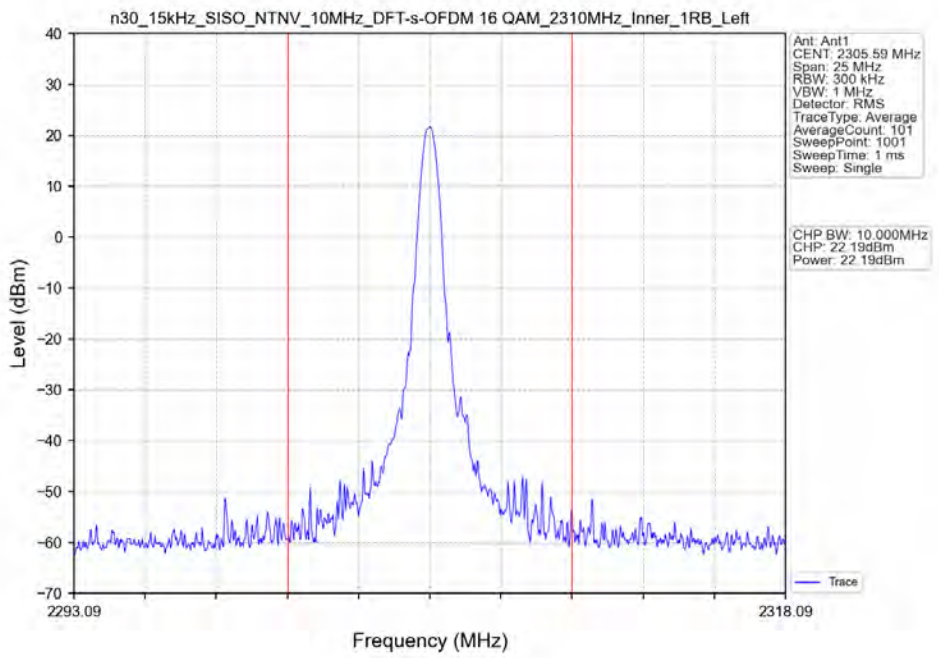

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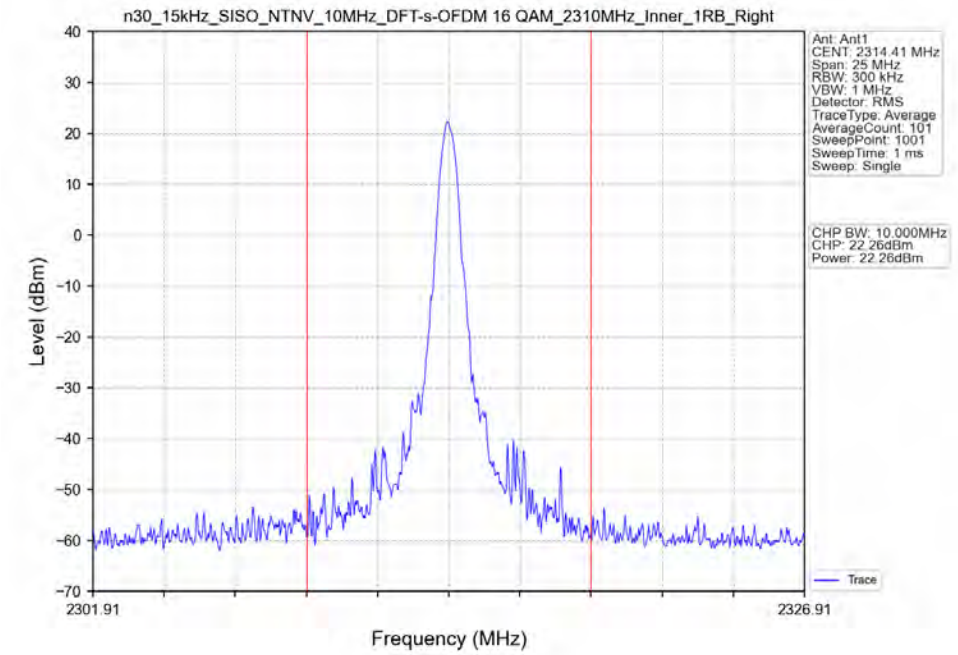

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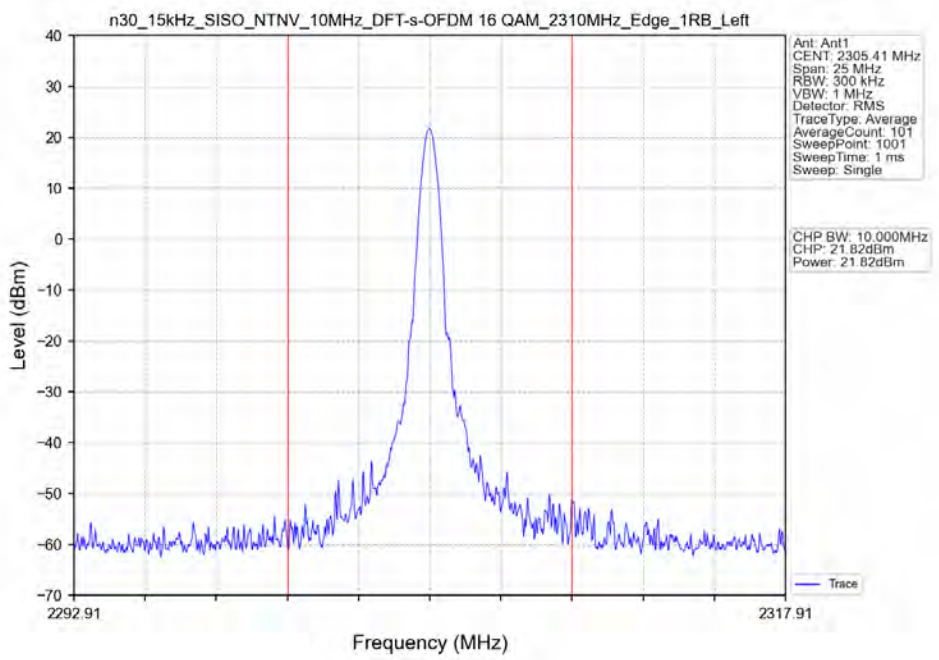

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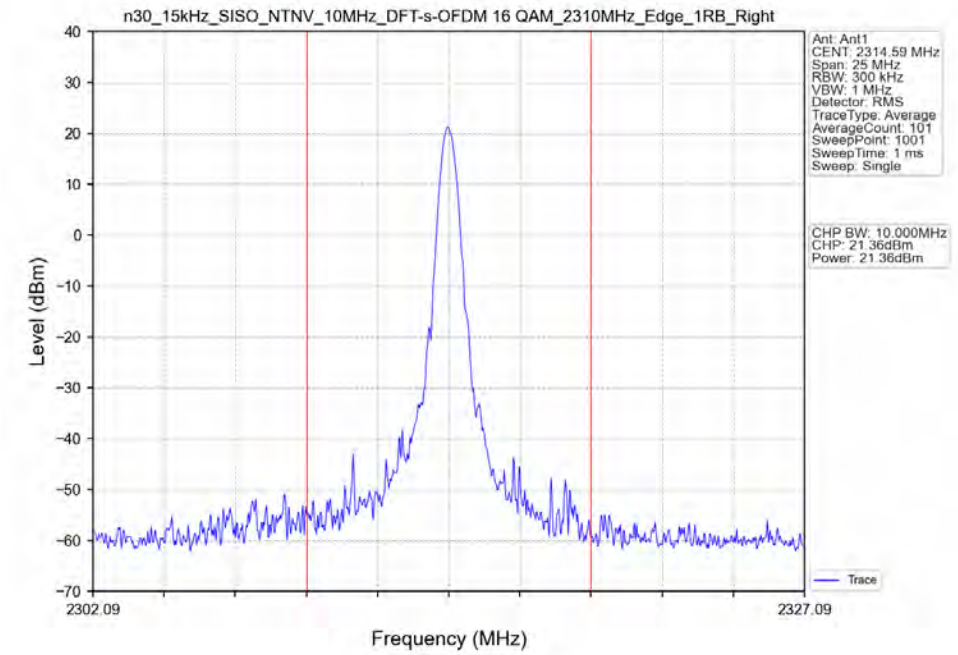

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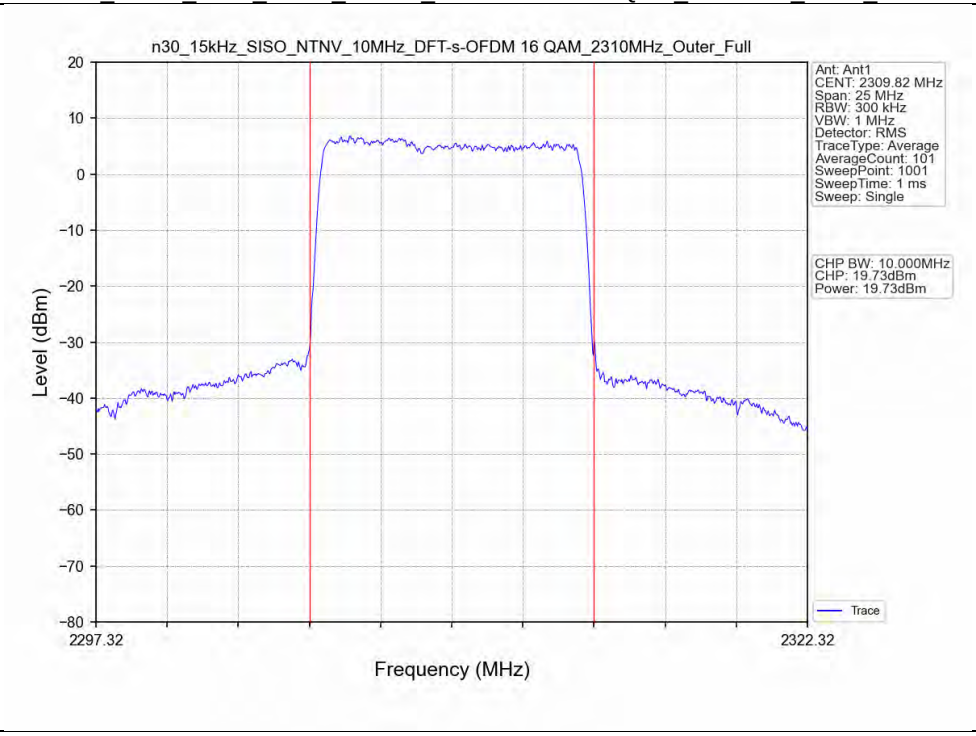
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_2310MHz_Outer_Full



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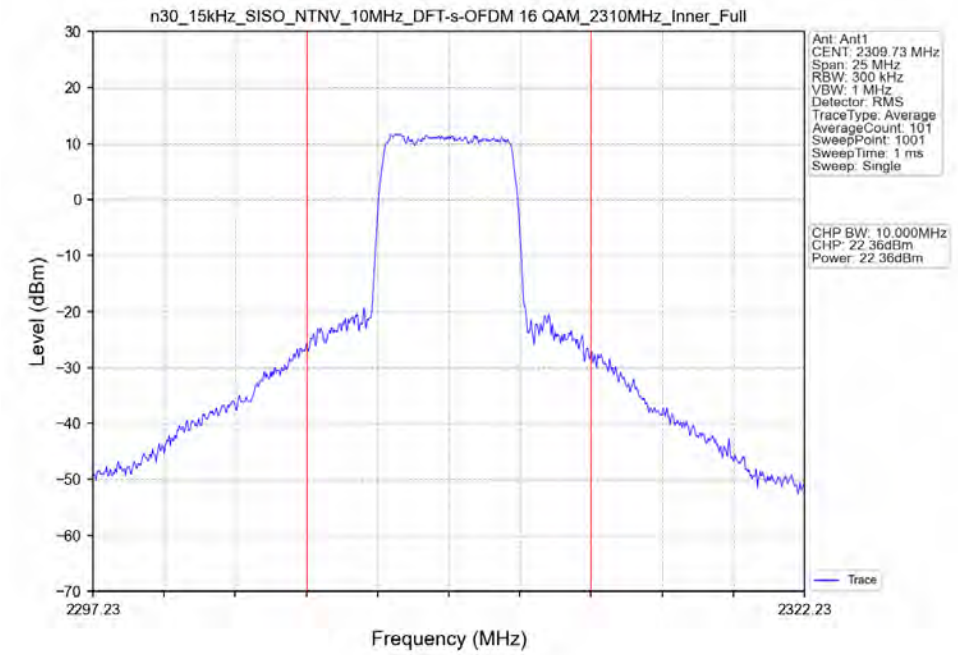

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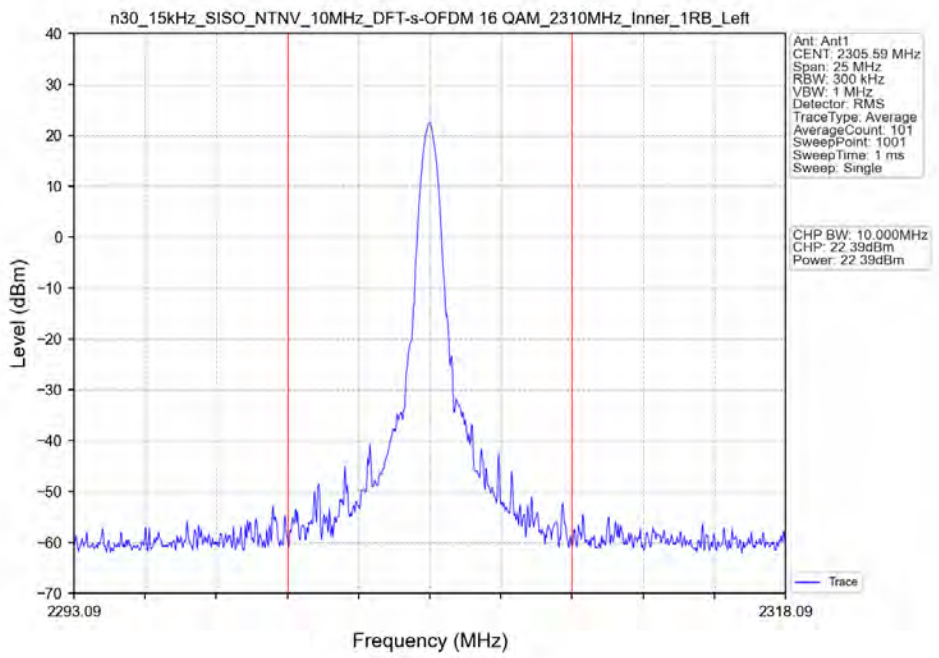

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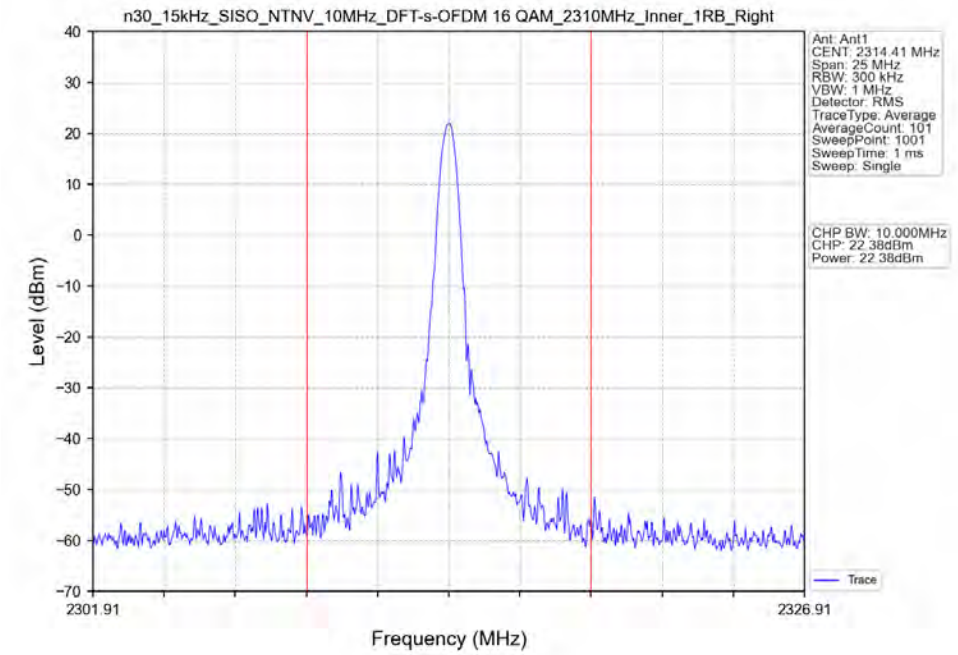

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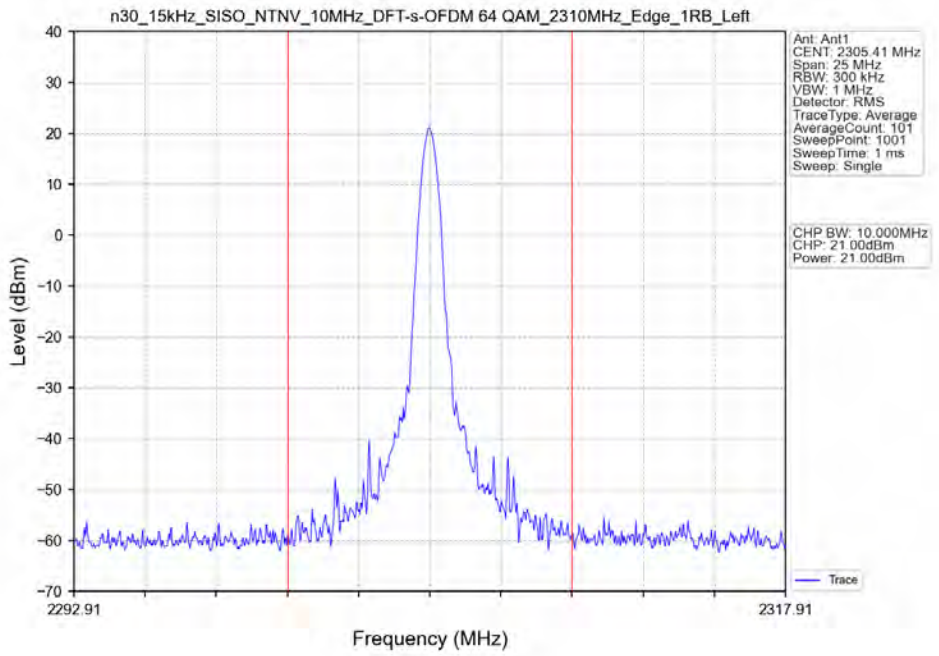

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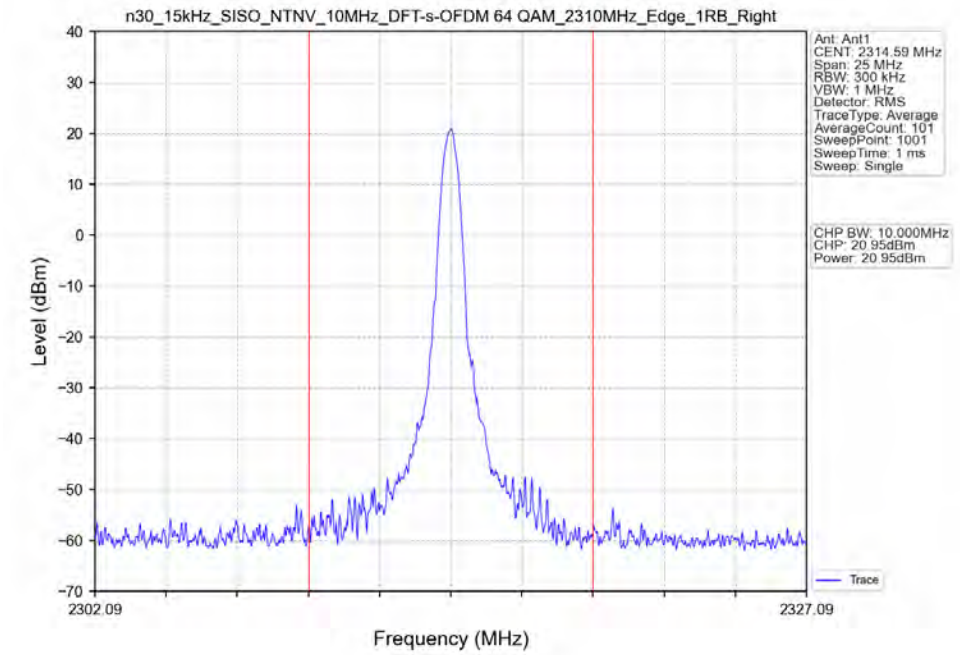

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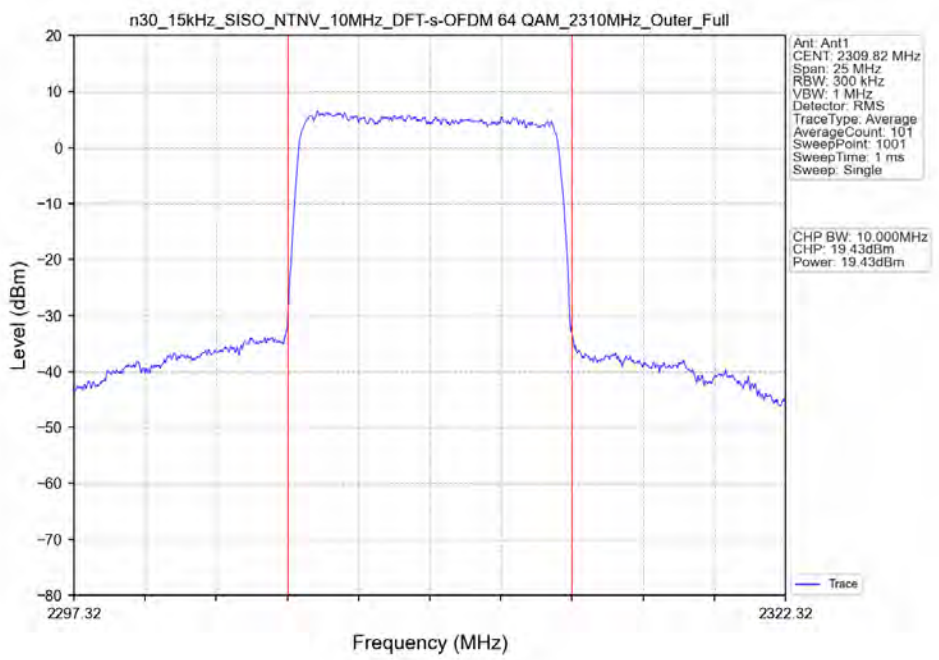

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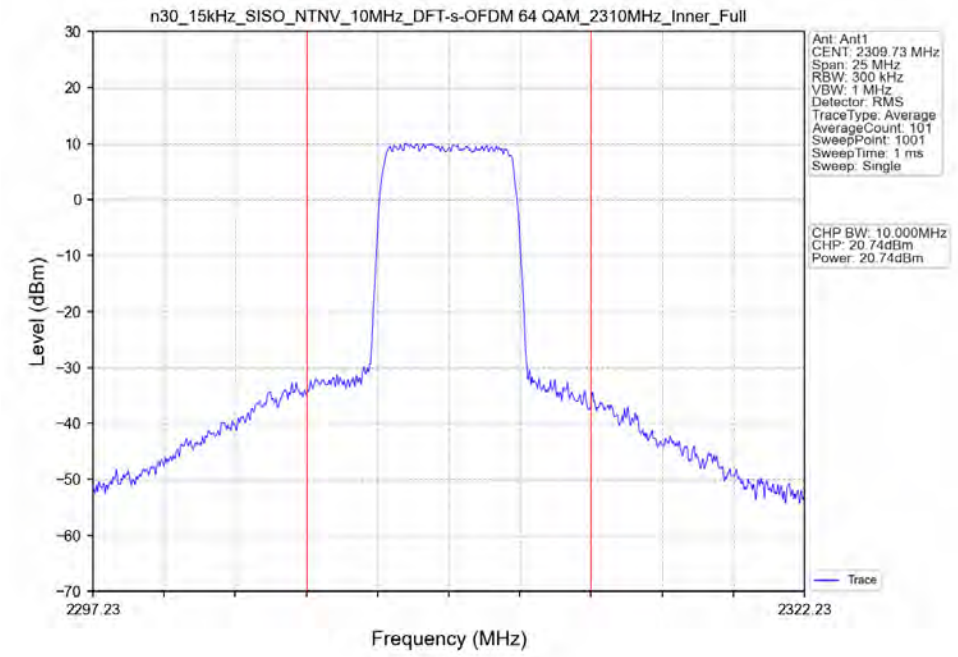

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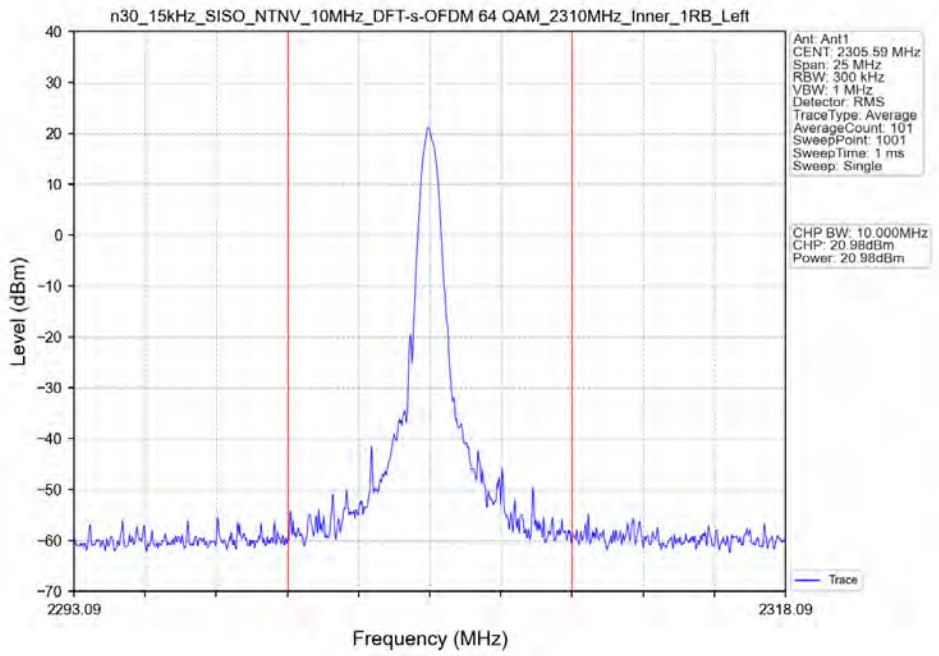

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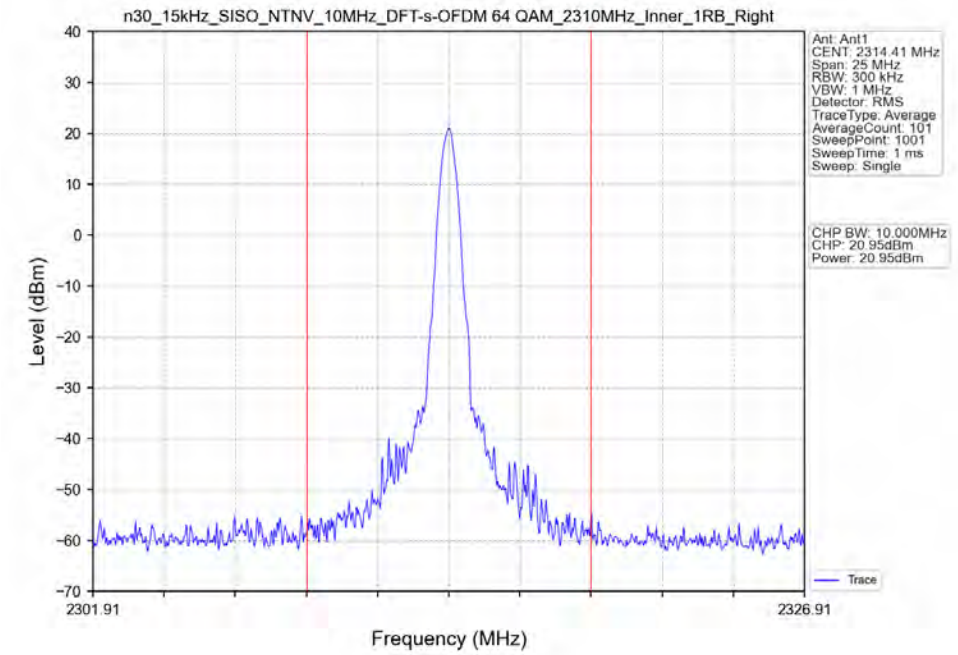

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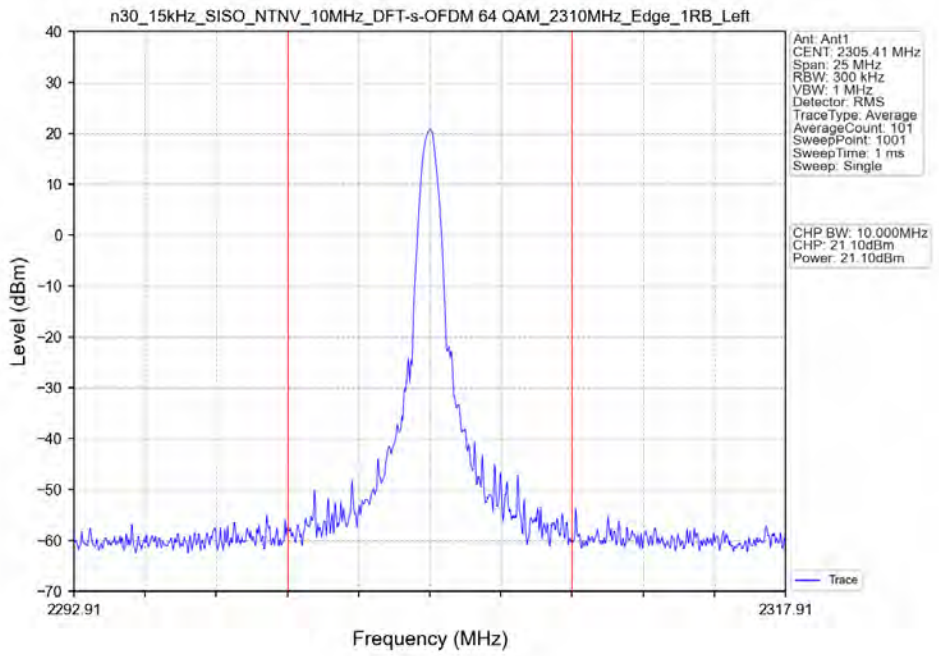

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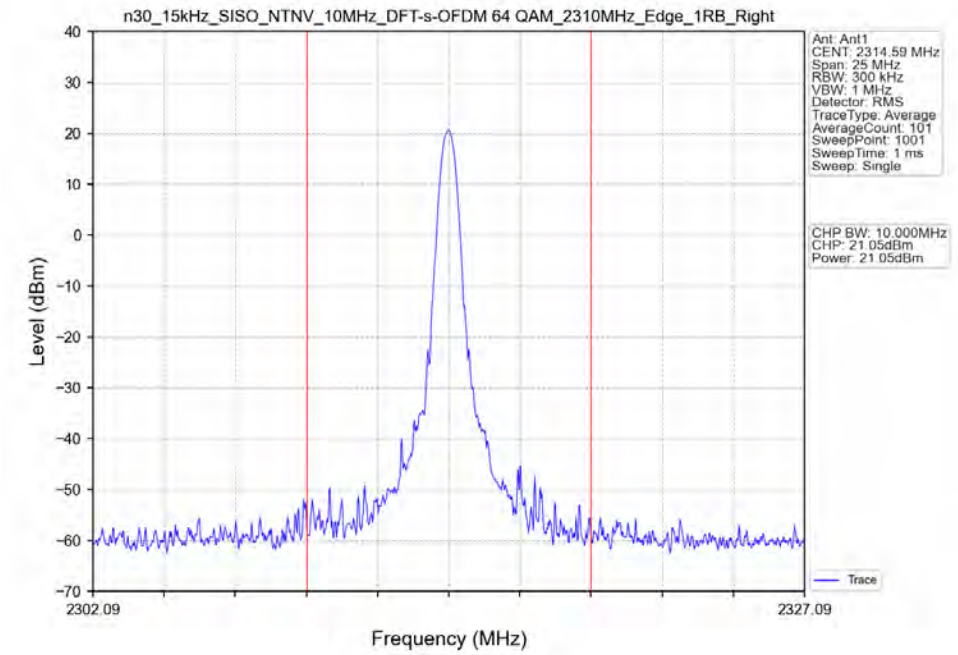

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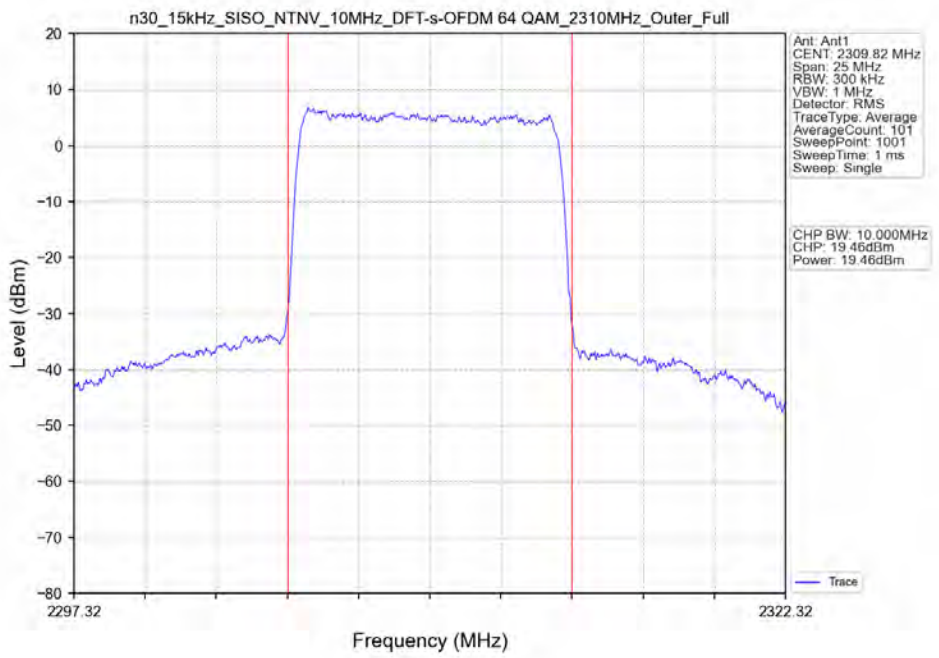
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_2310MHz_Outer_Full



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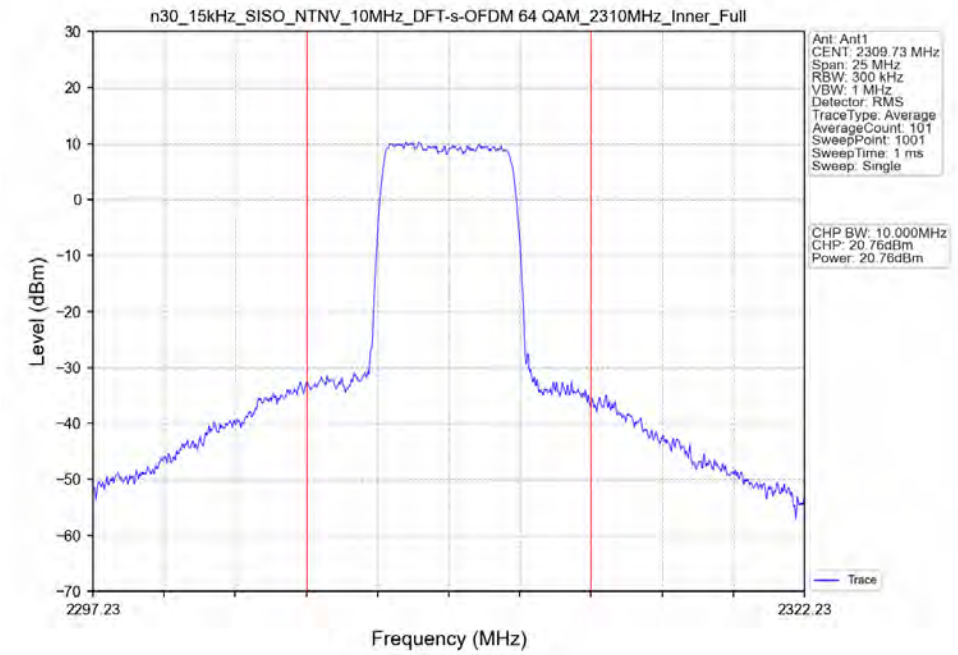

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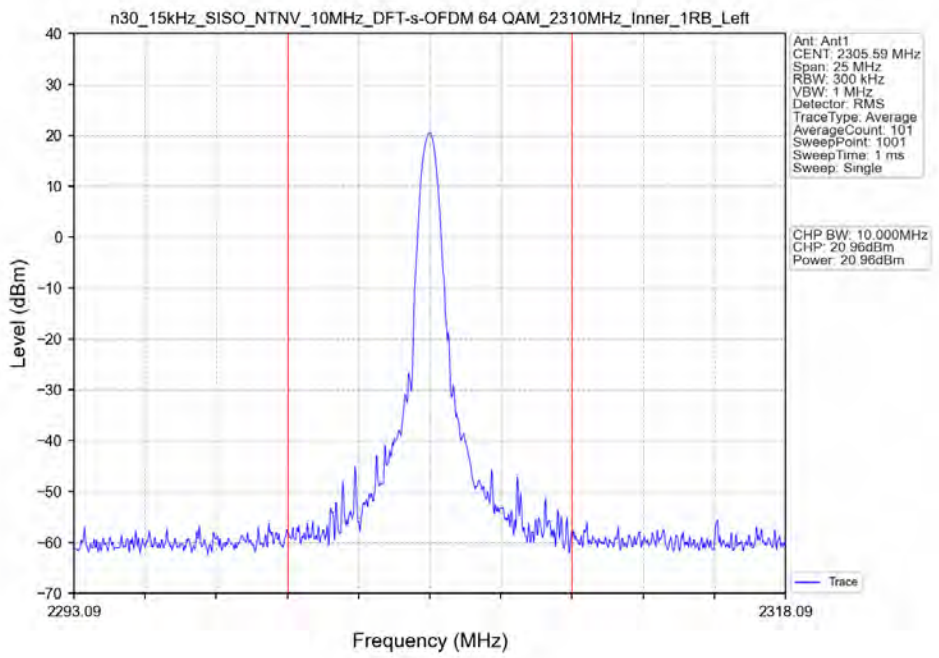

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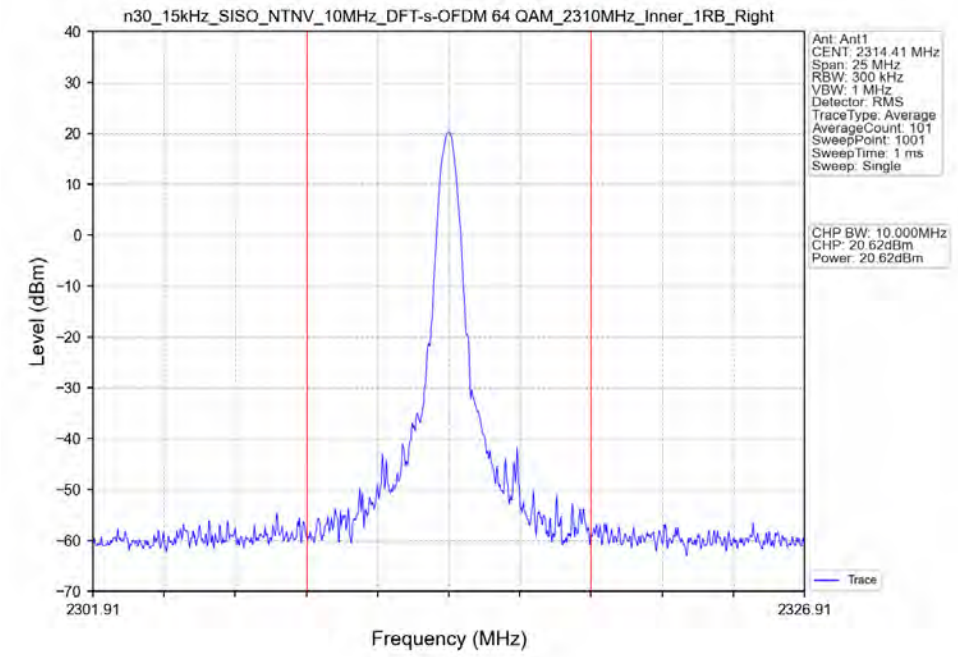

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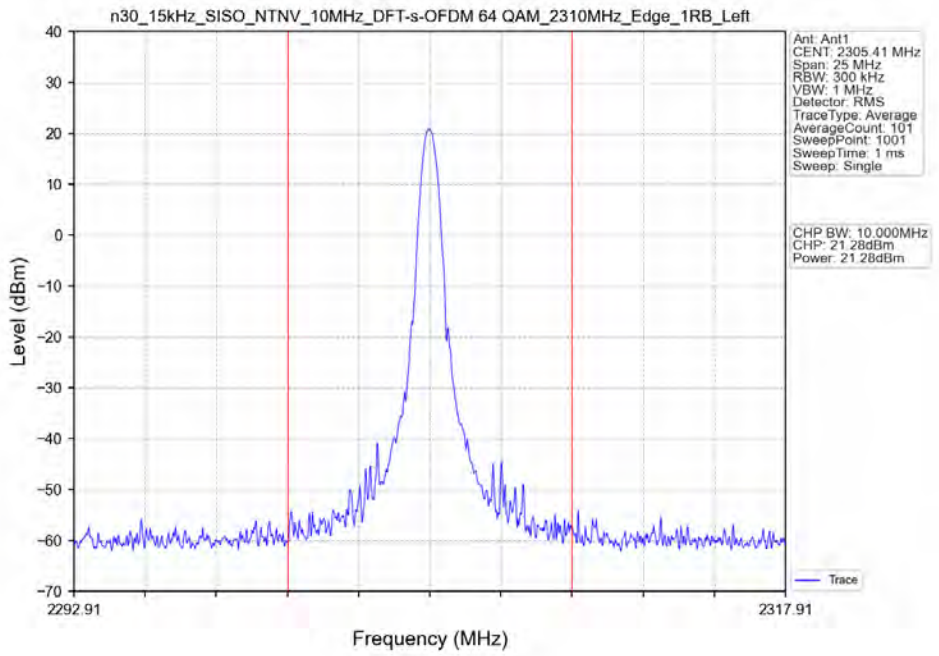

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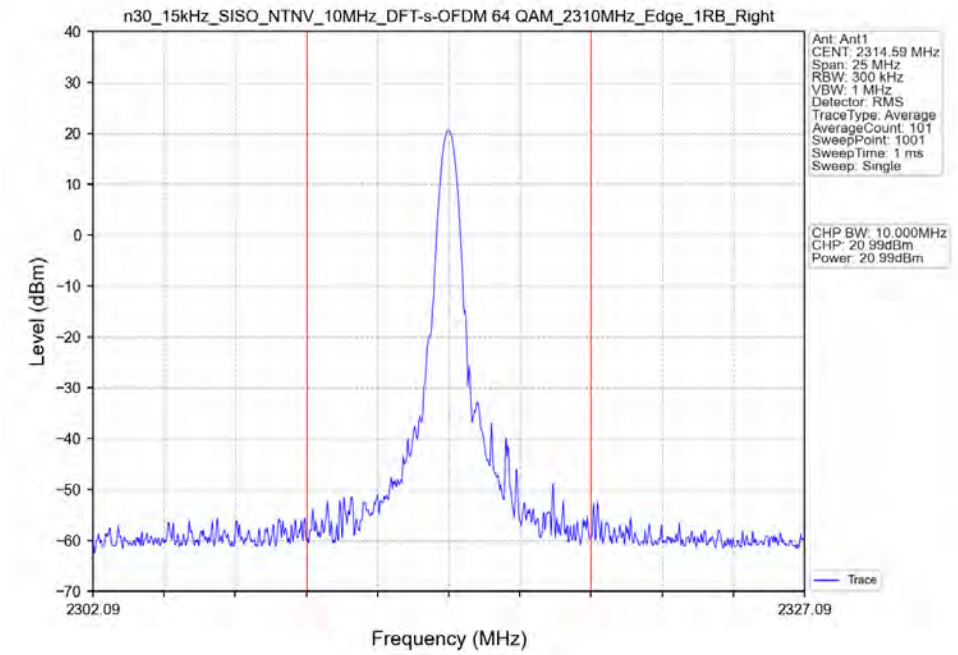

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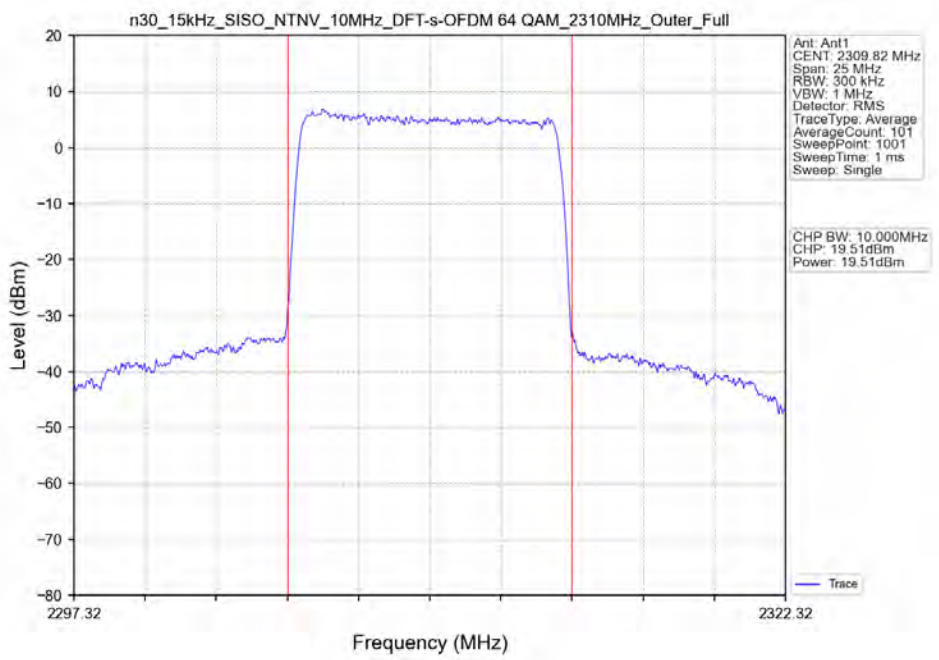

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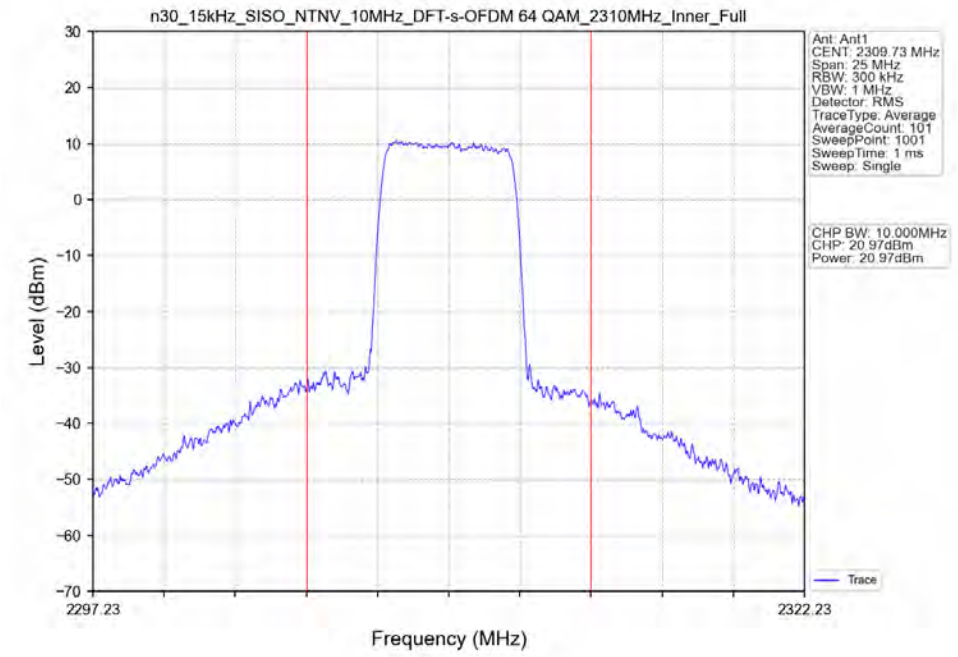

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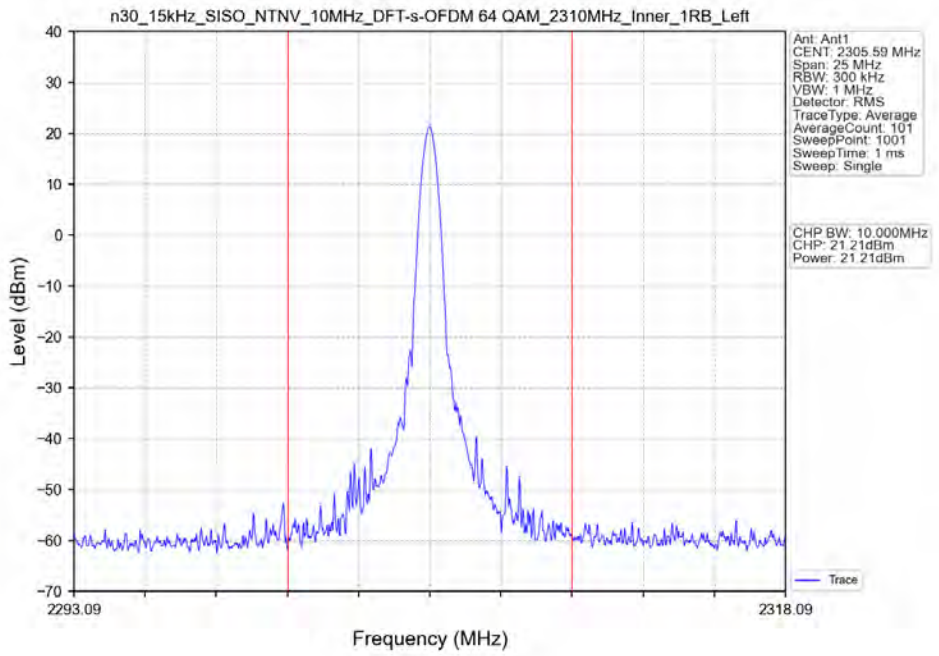

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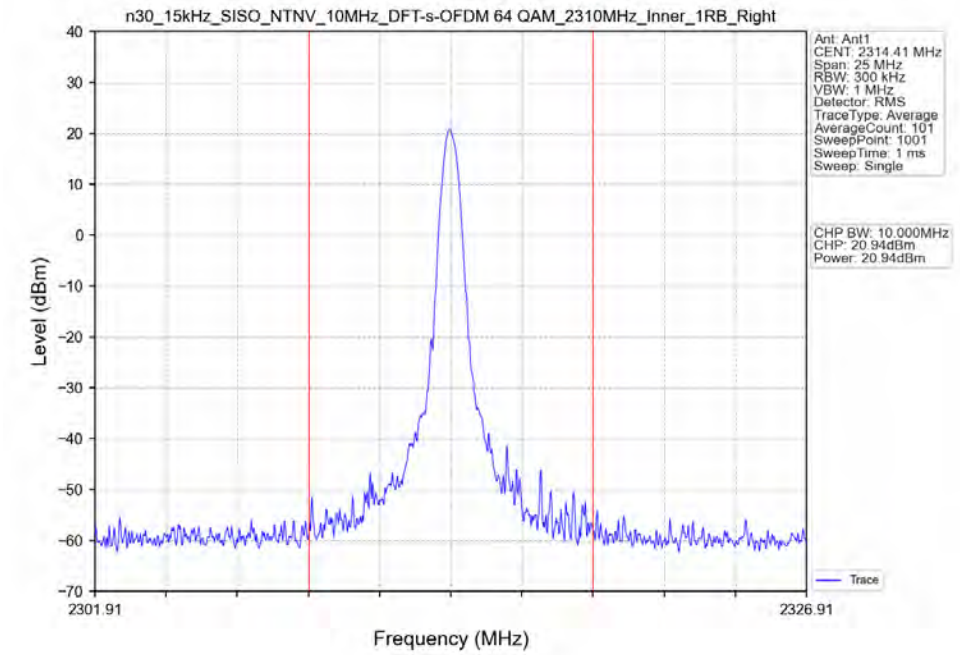

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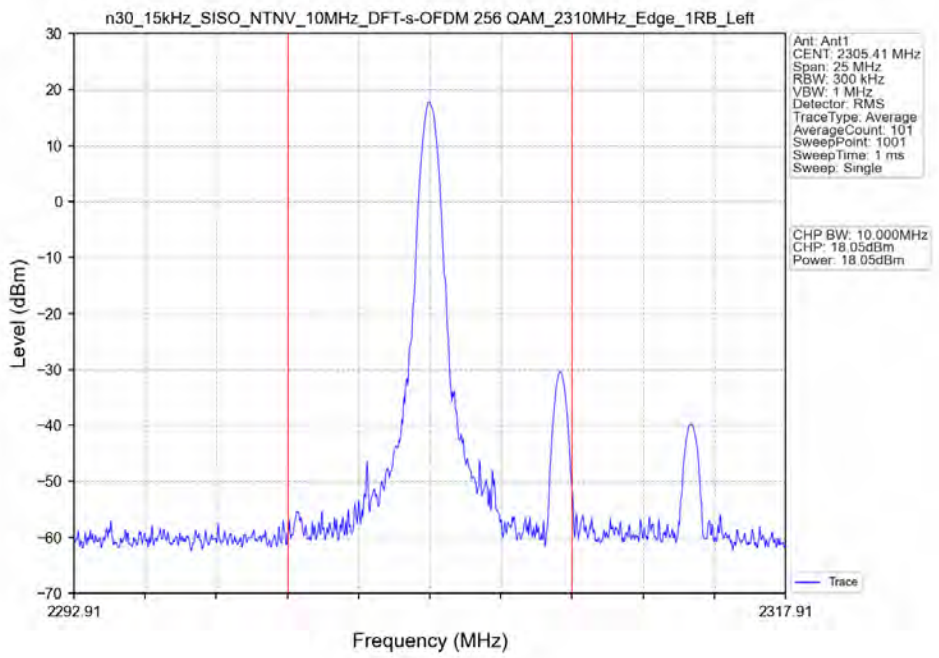

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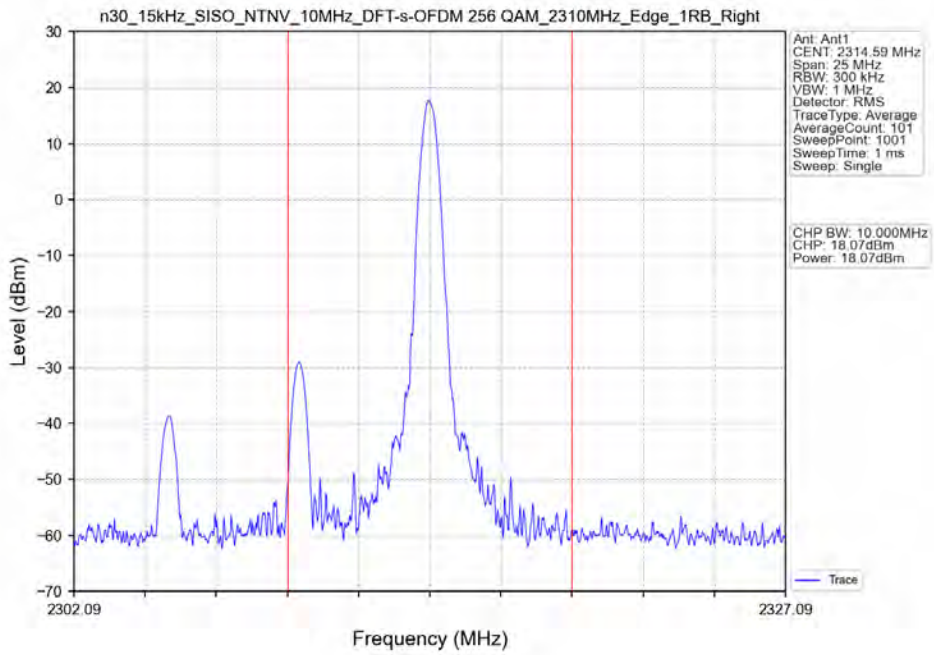

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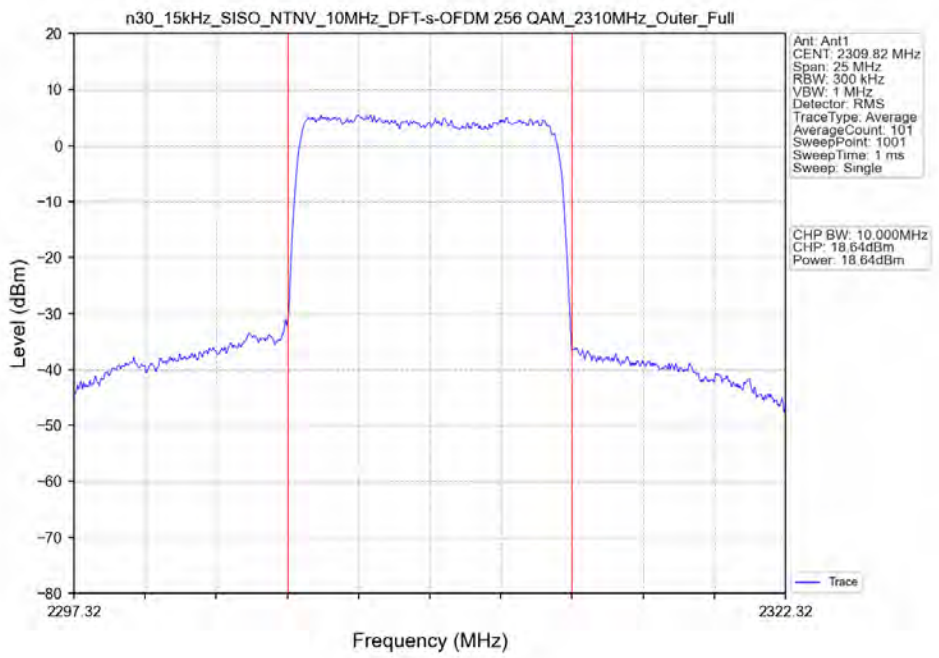

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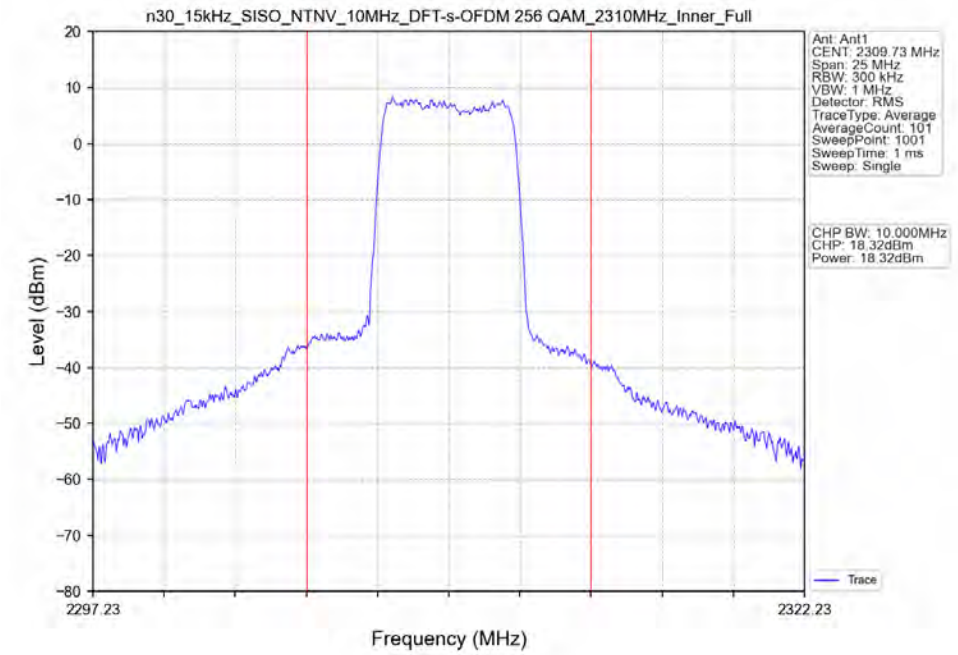

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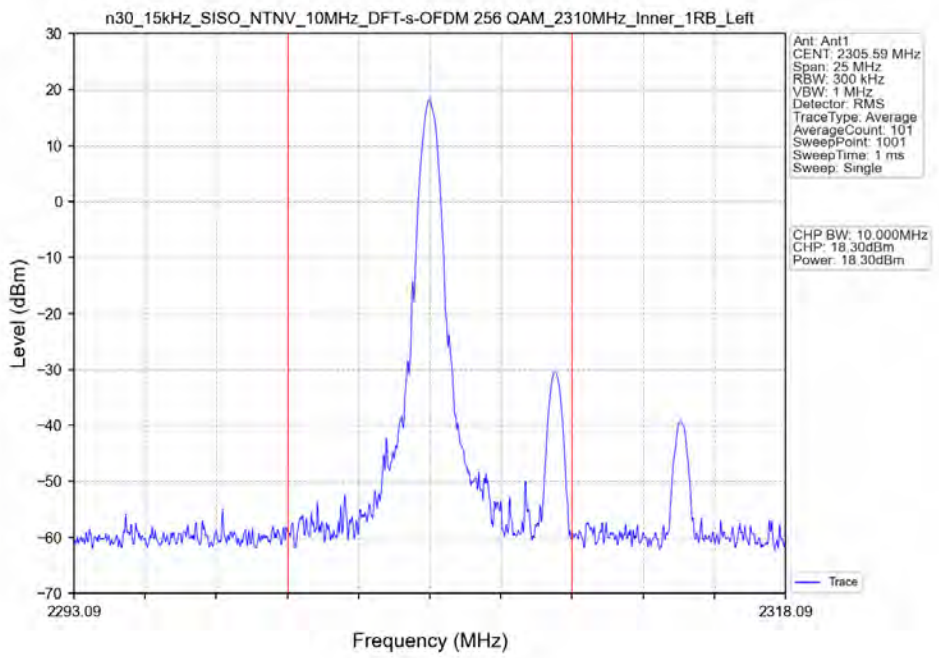
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_2310MHz_Inner_1RB_Left



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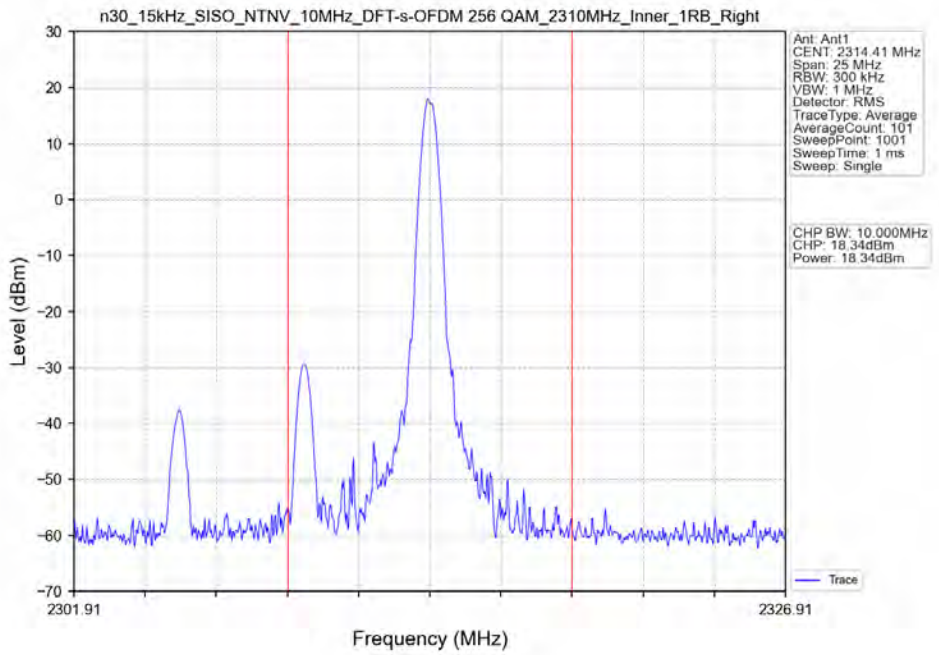

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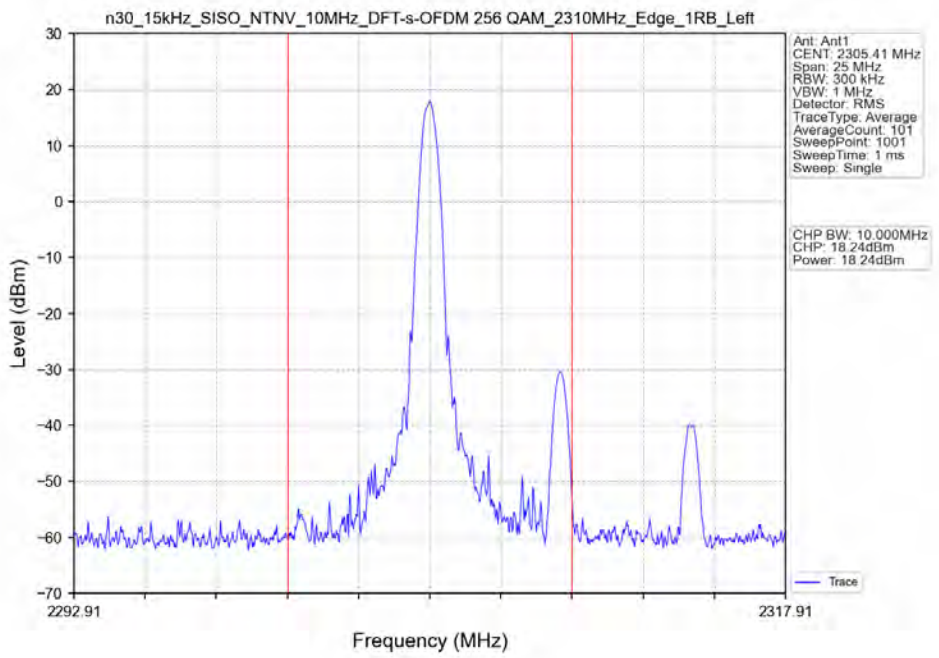

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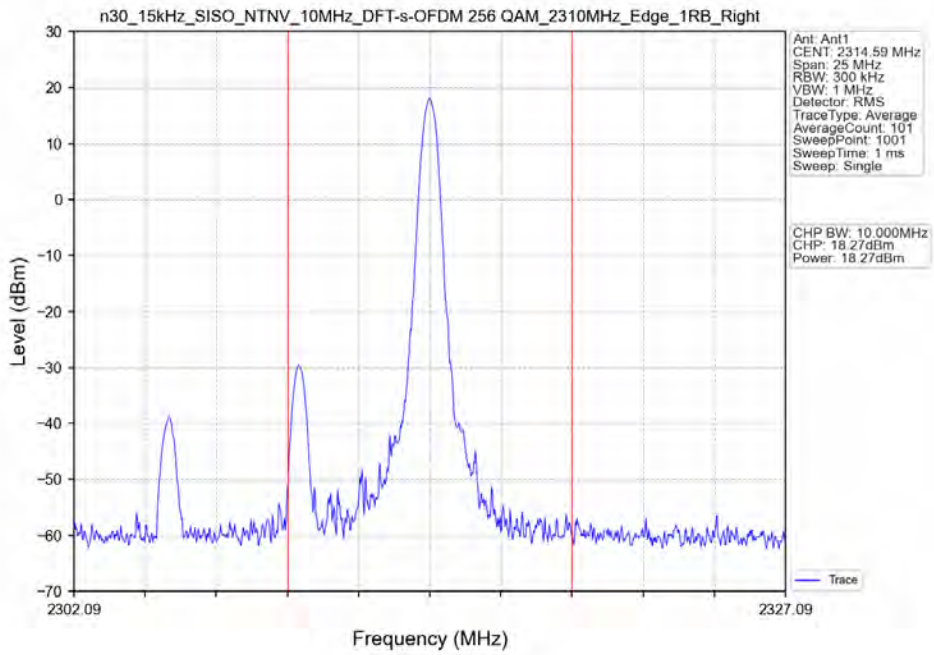

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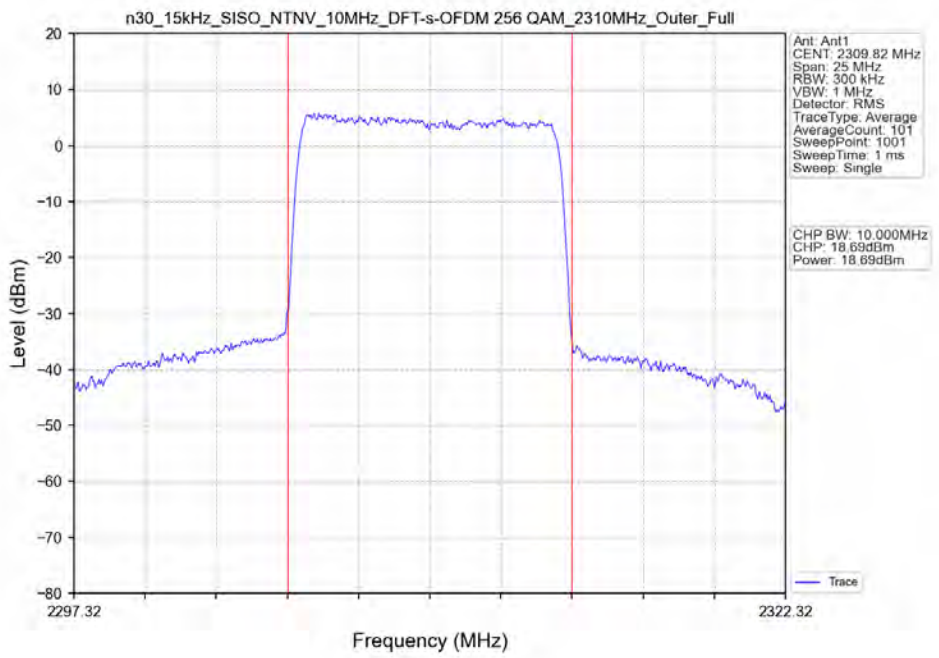

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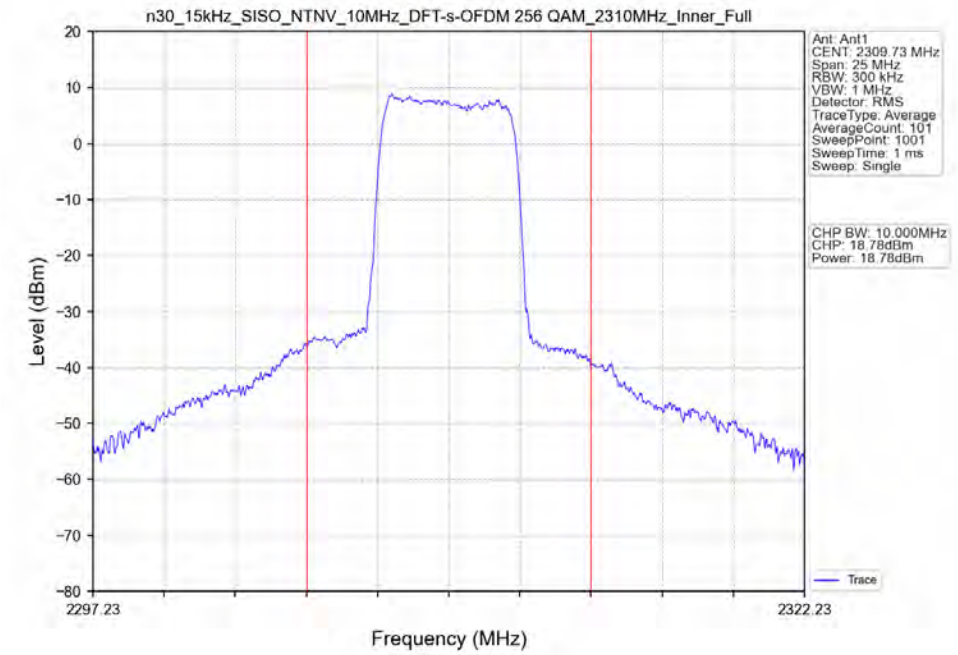

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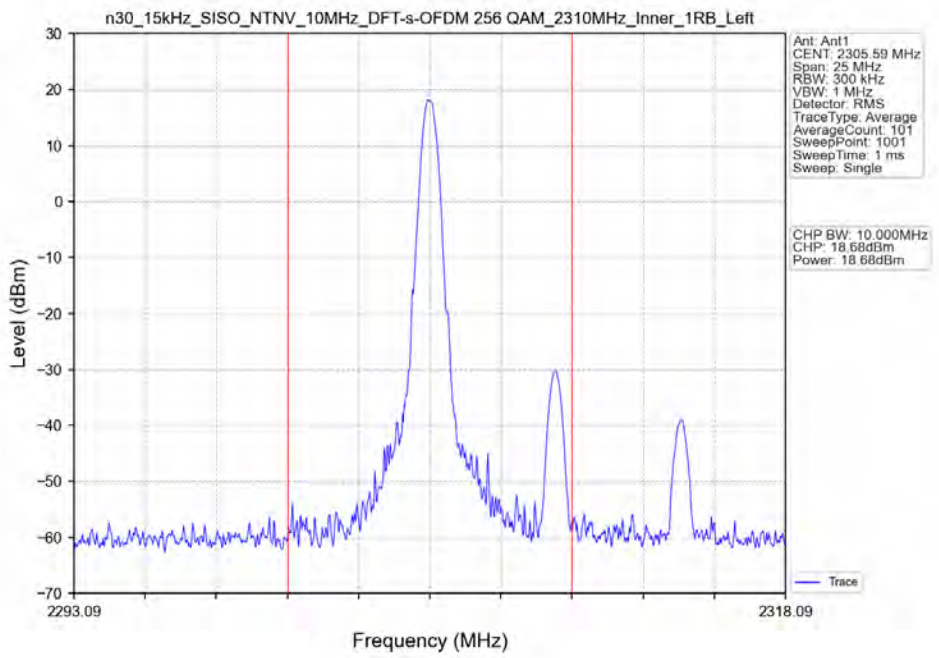

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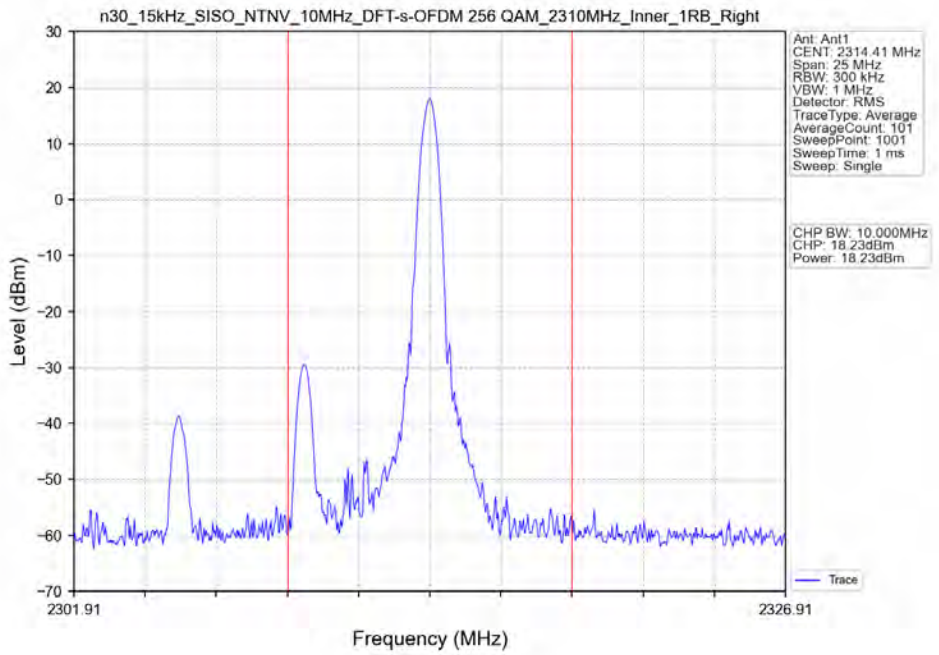

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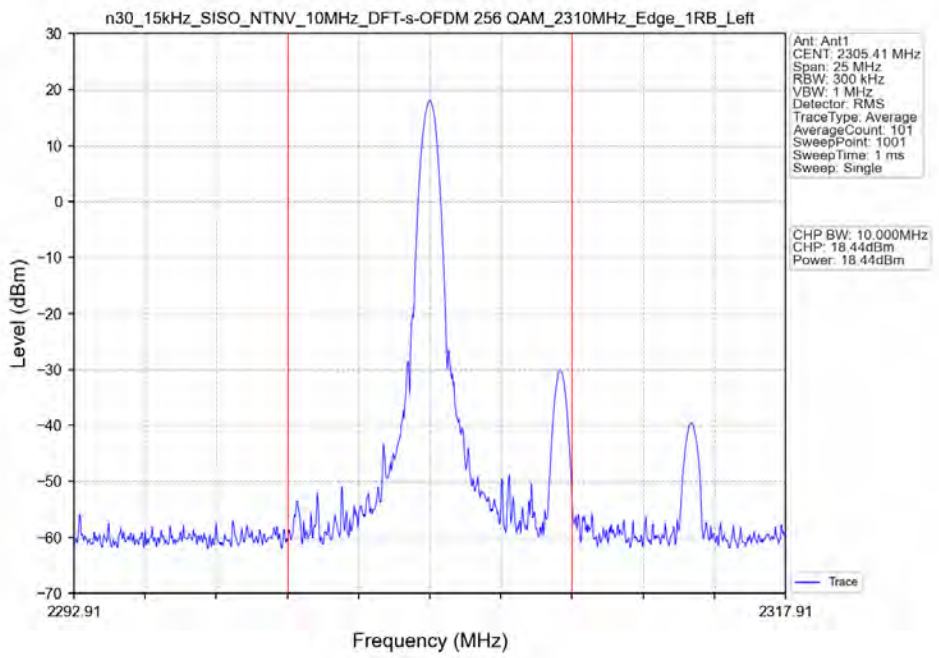

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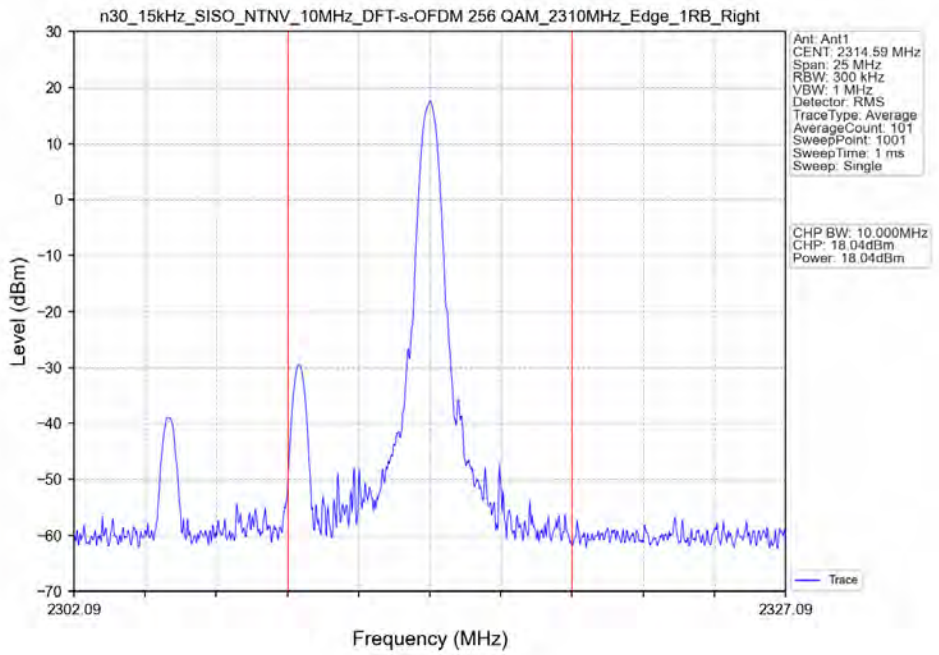

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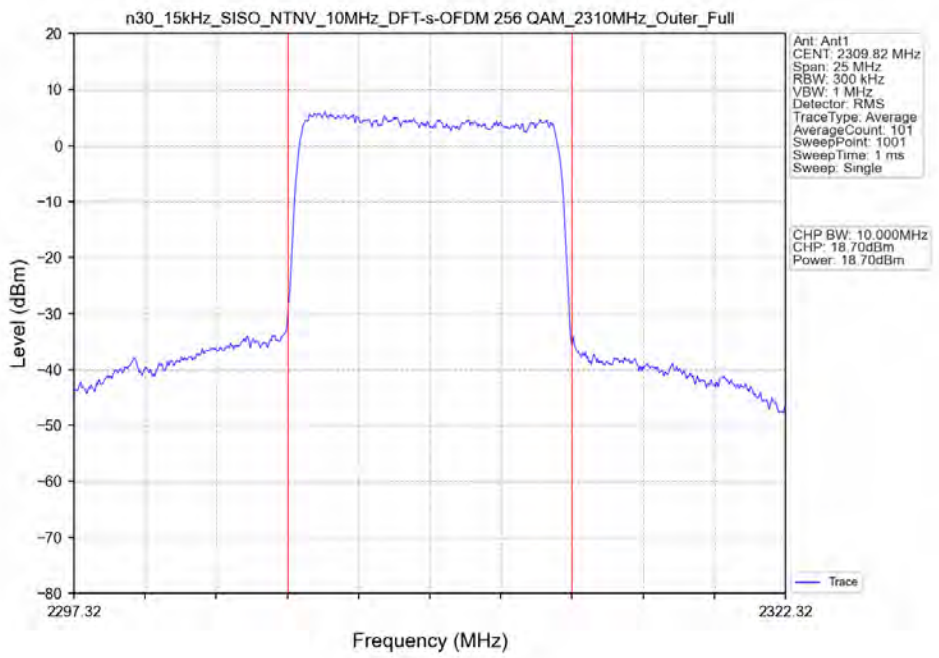

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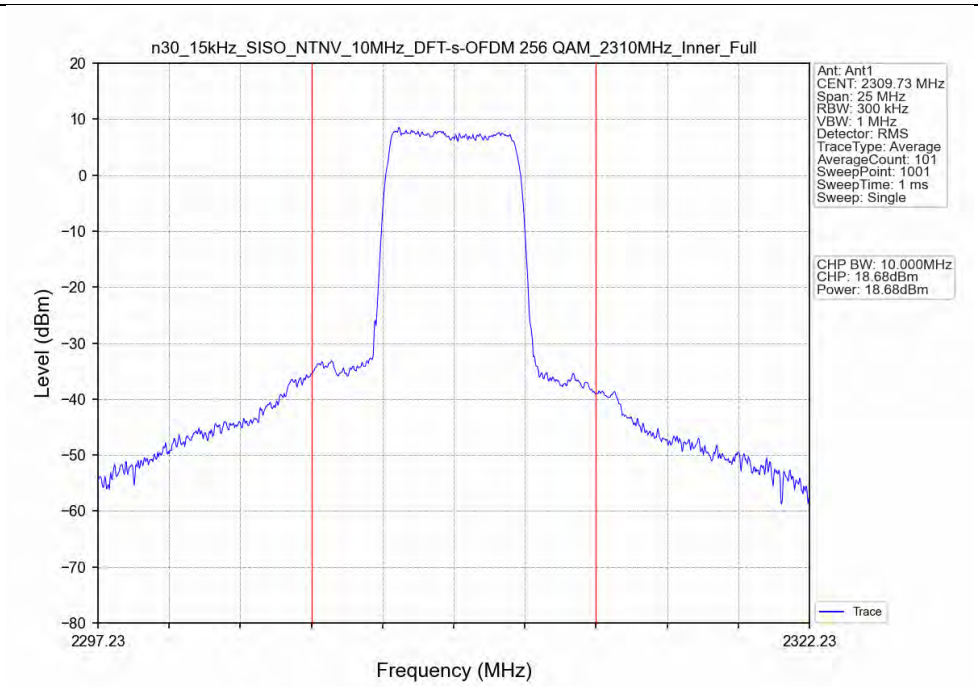

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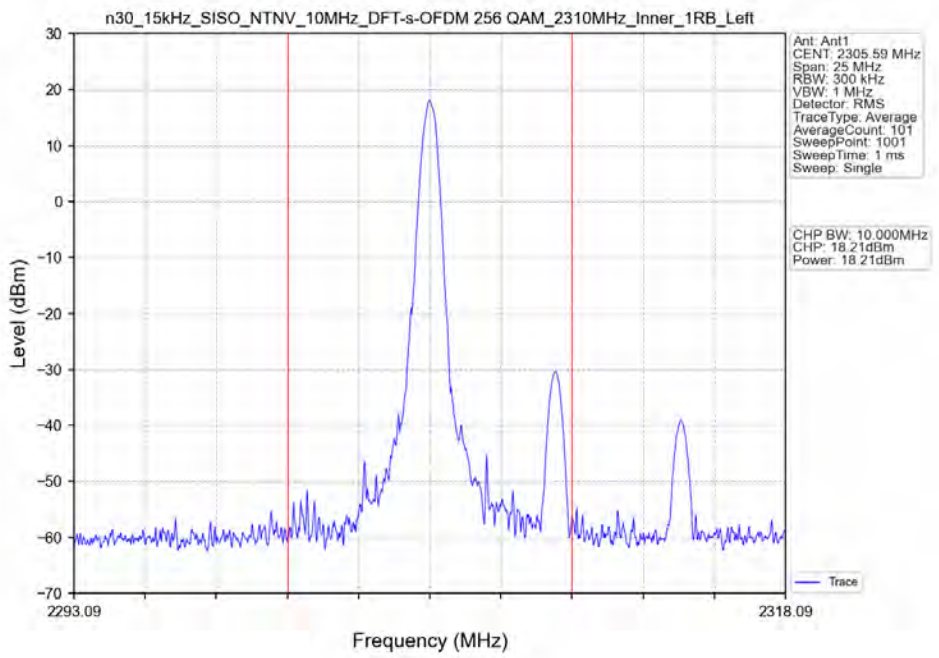
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_2310MHz_Inner_1RB_Left



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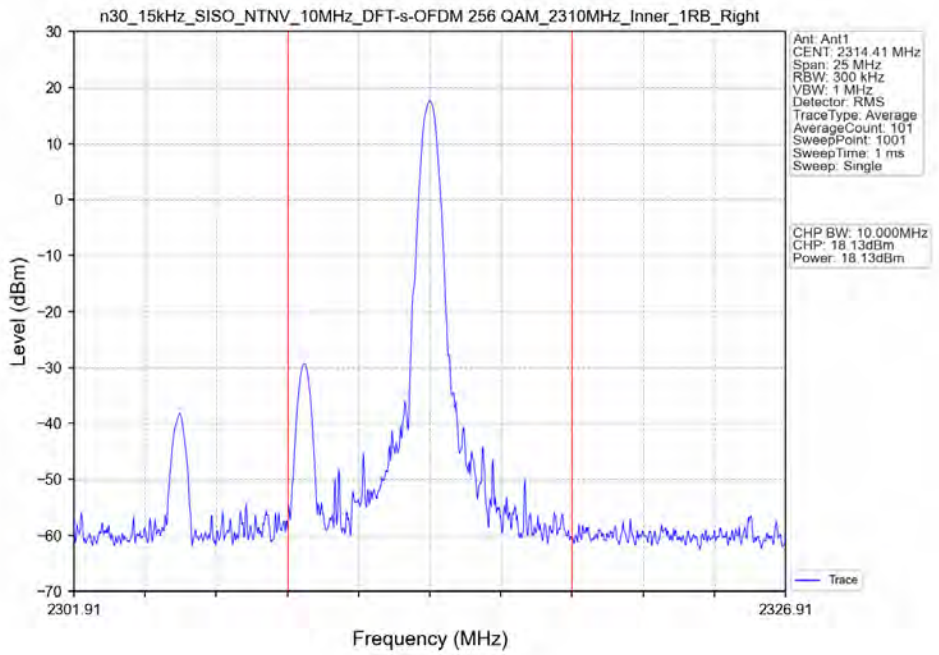

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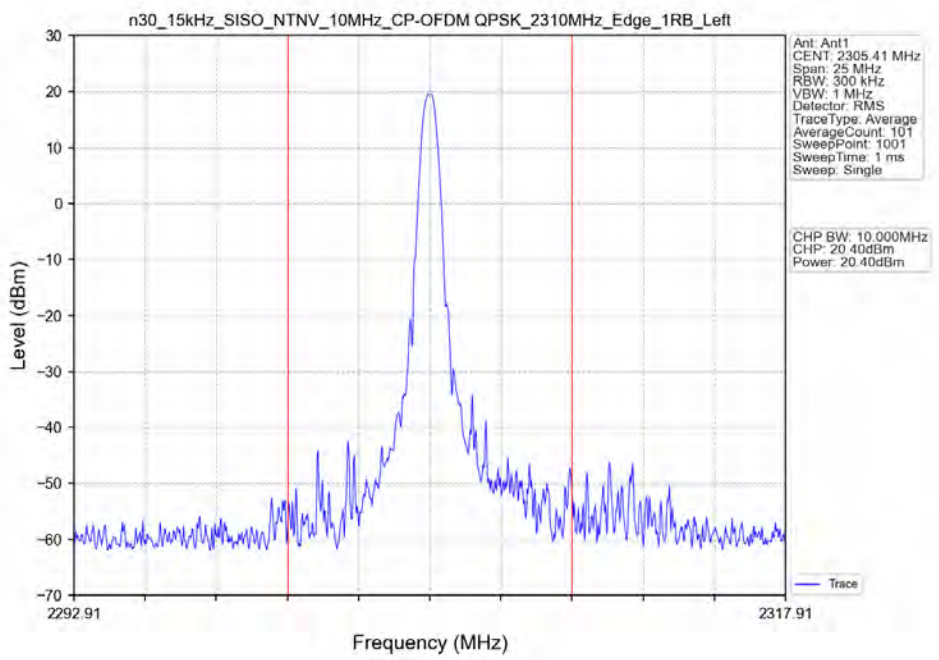

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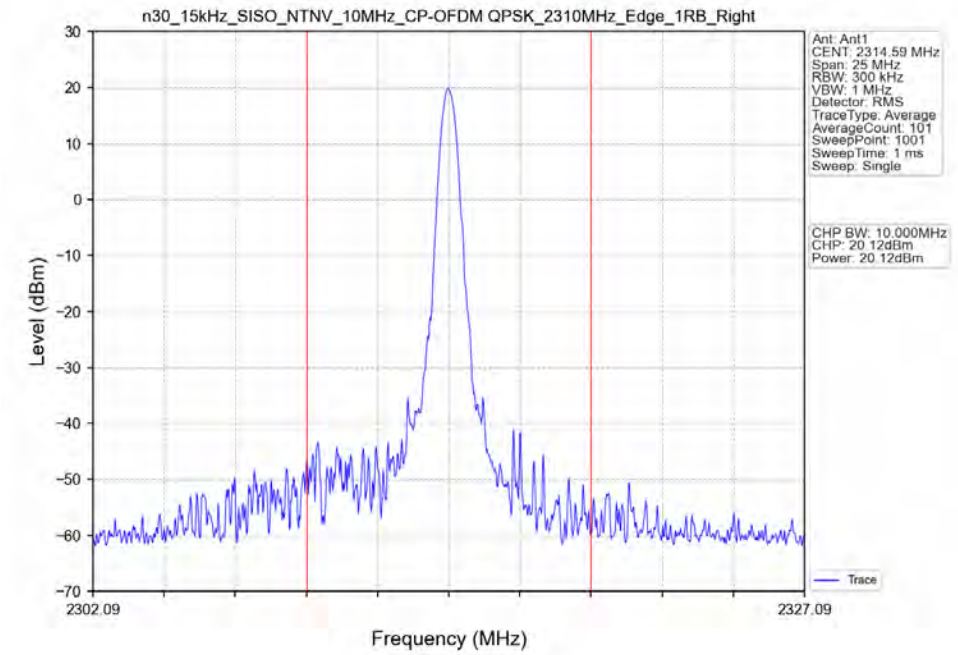

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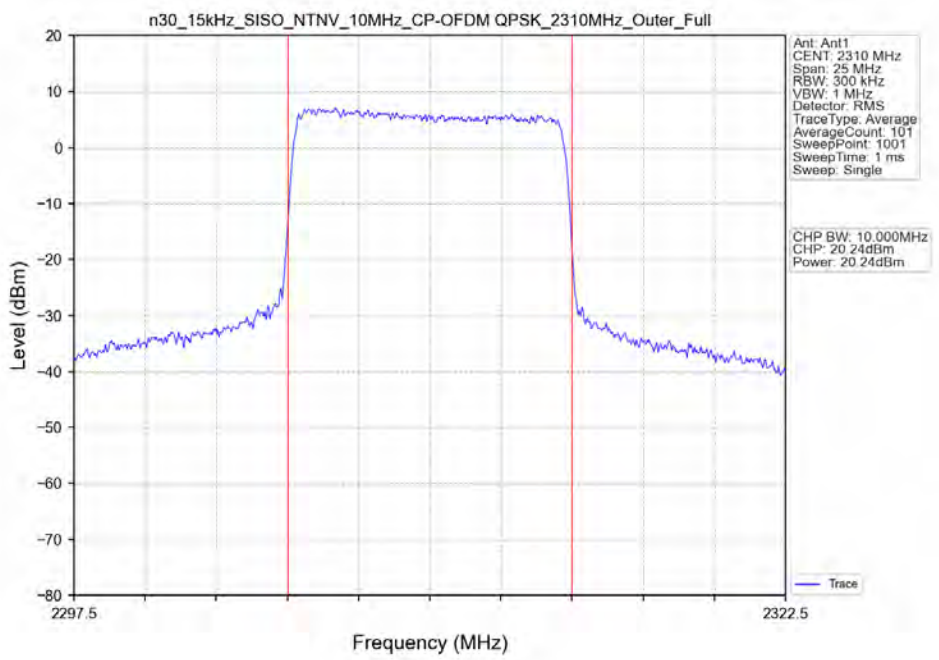

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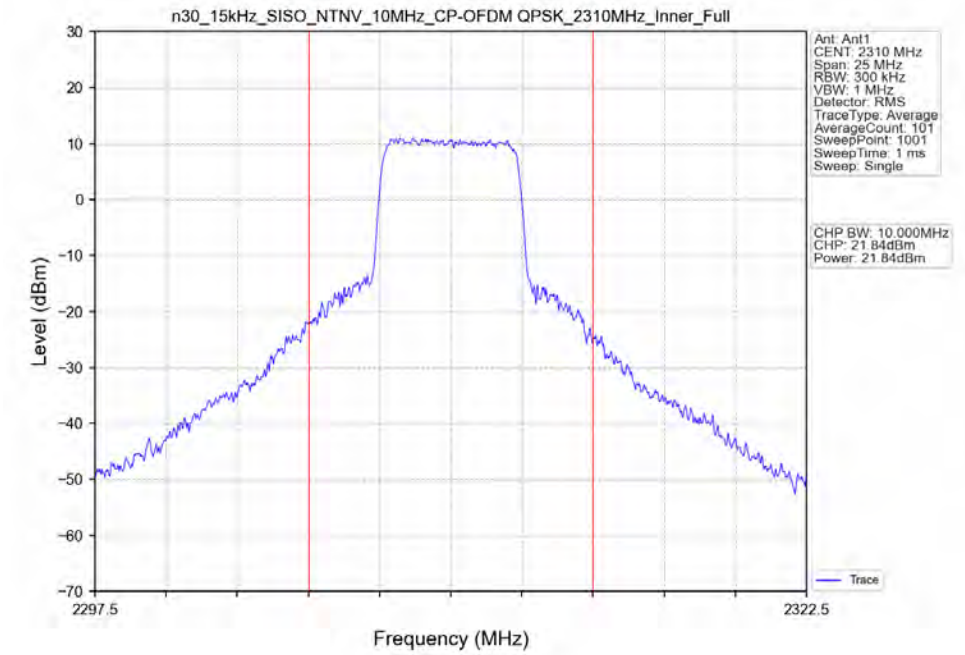

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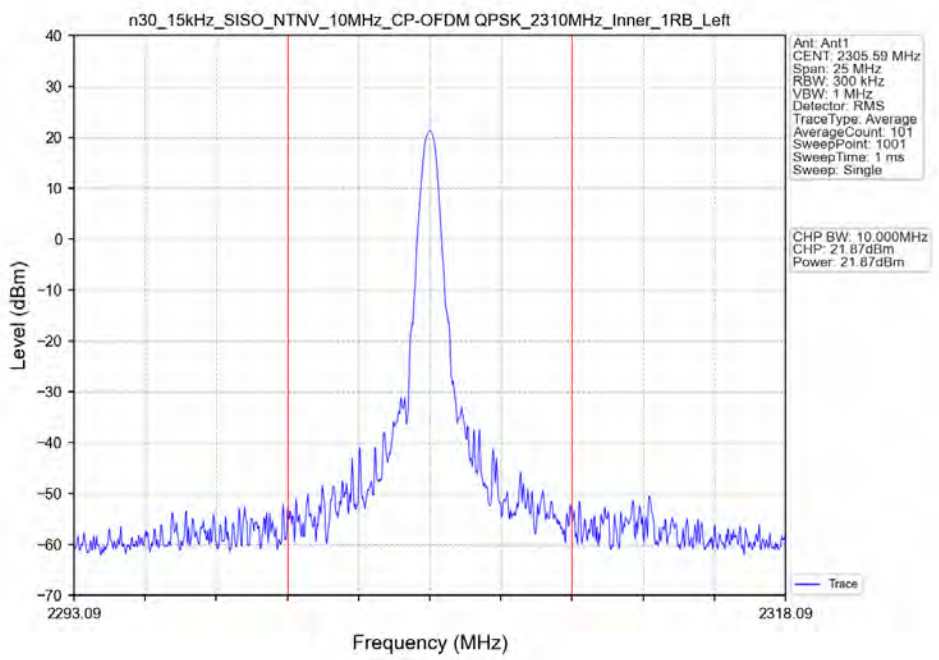

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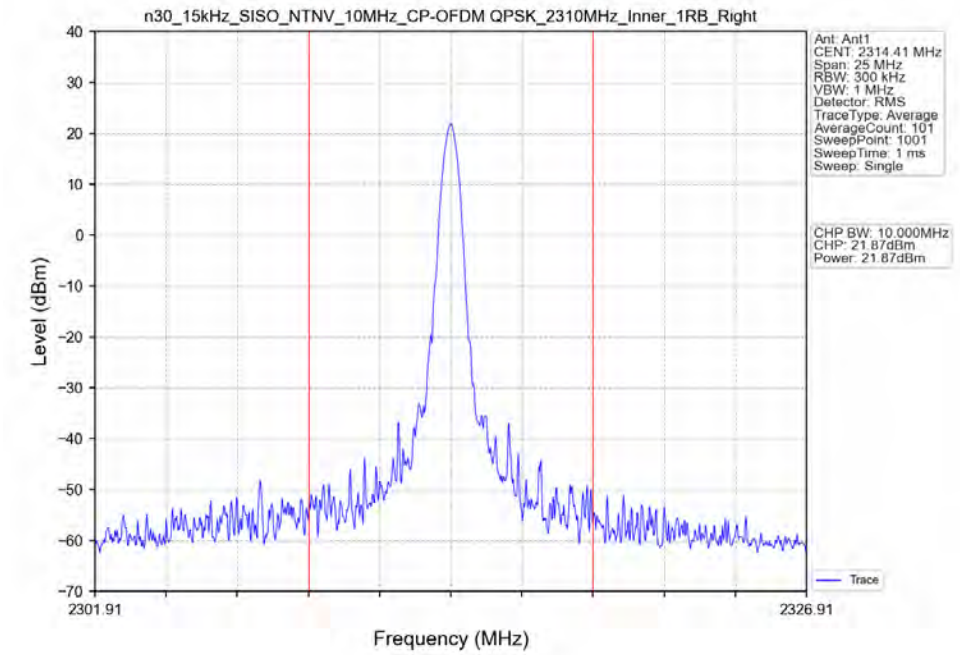

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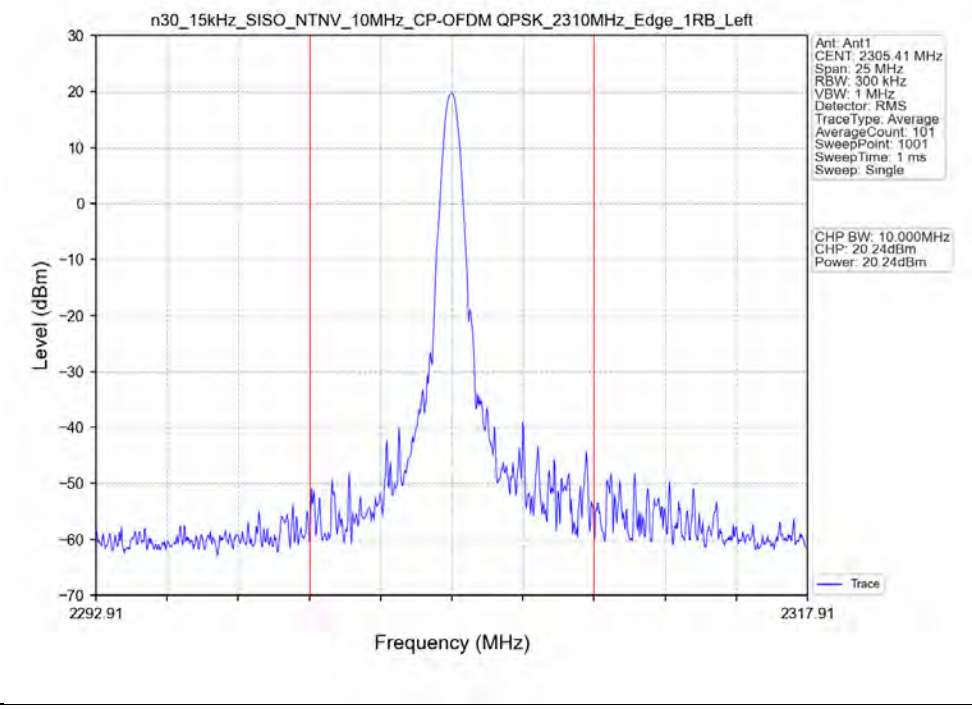

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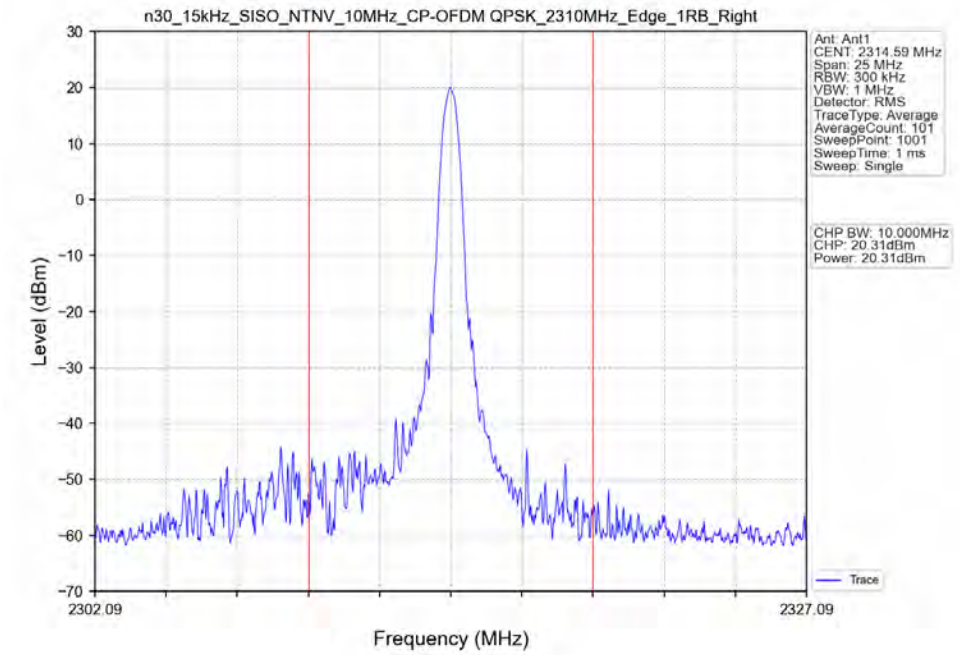

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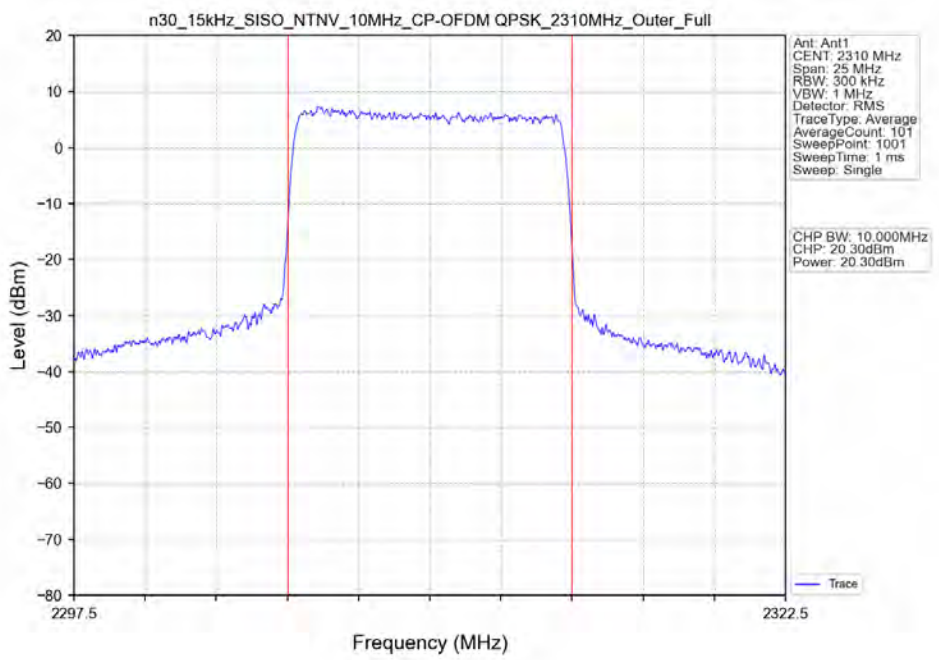

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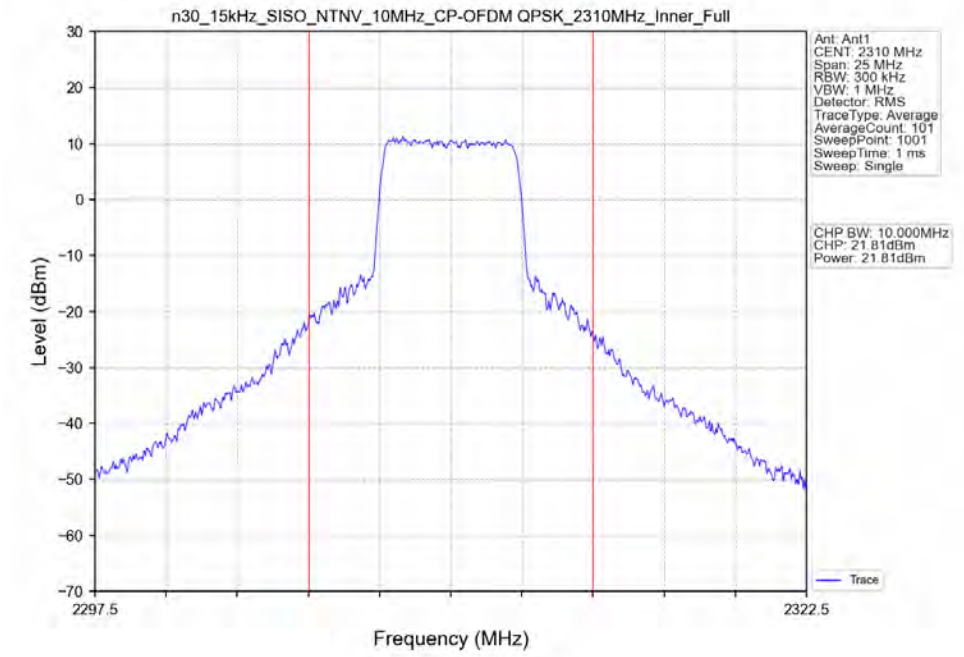

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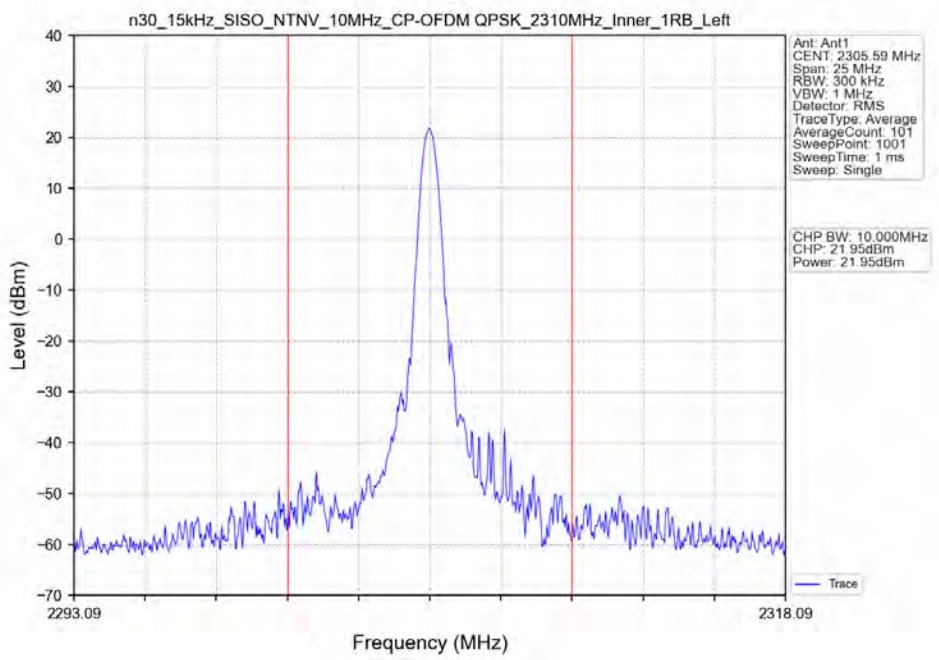

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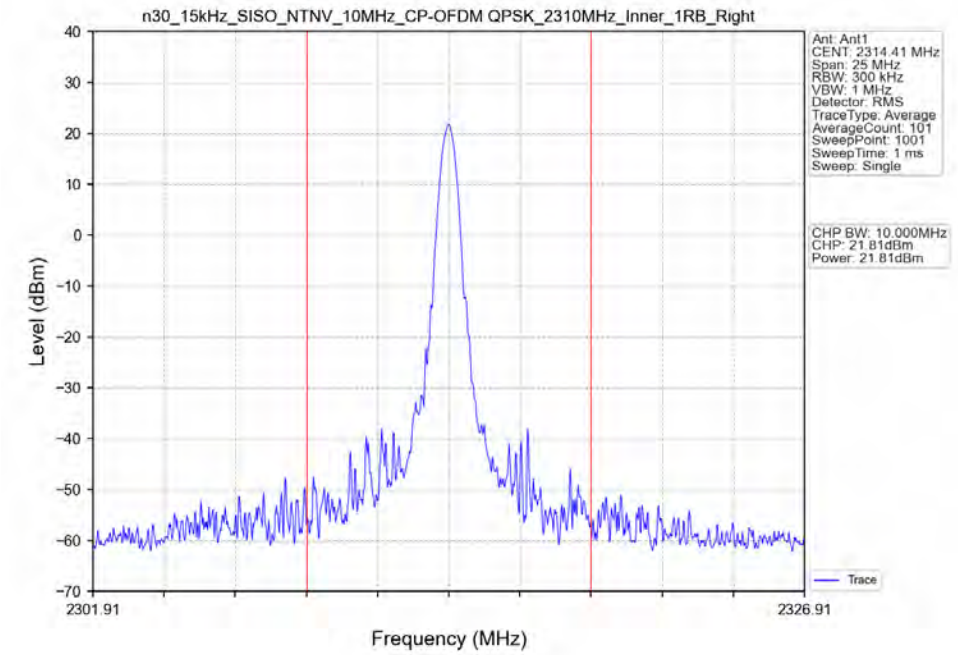

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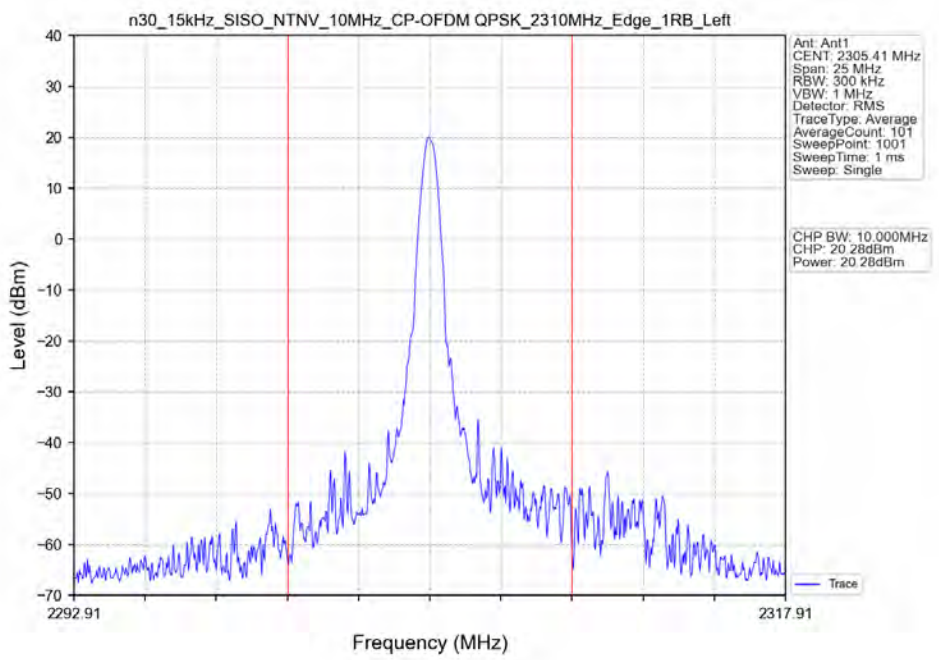

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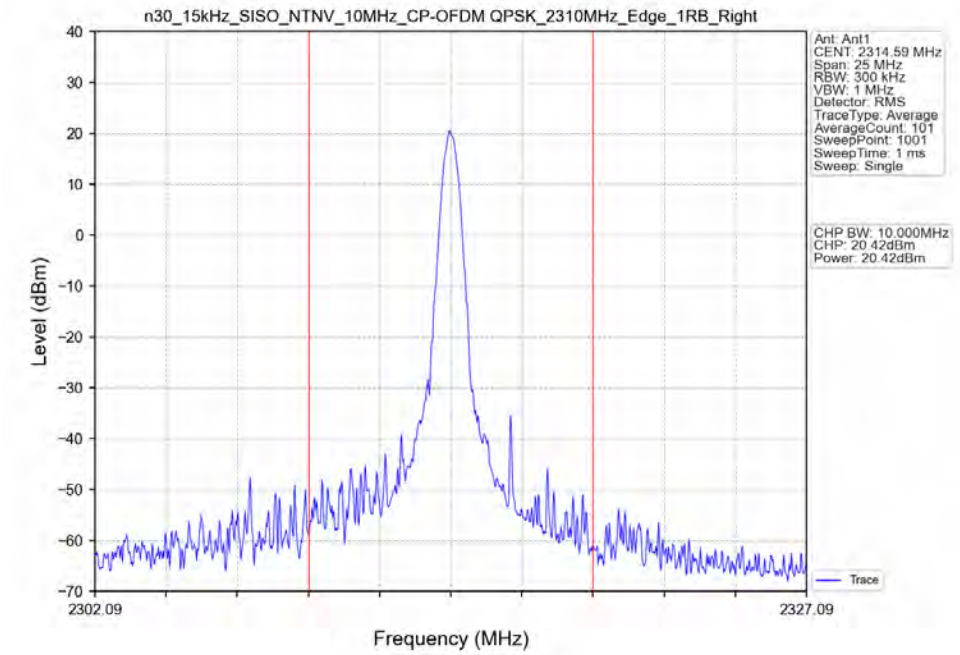

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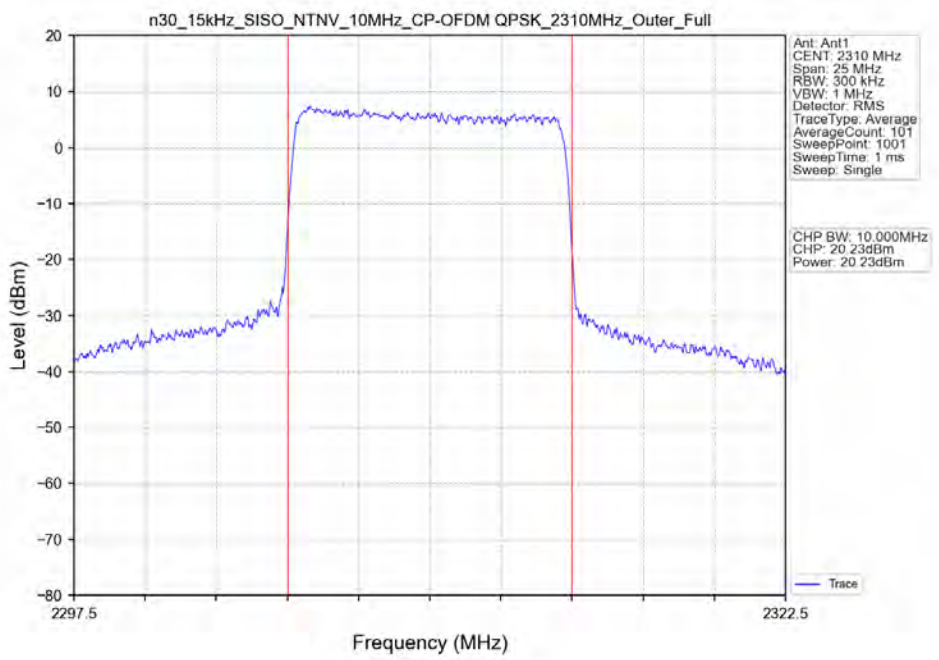

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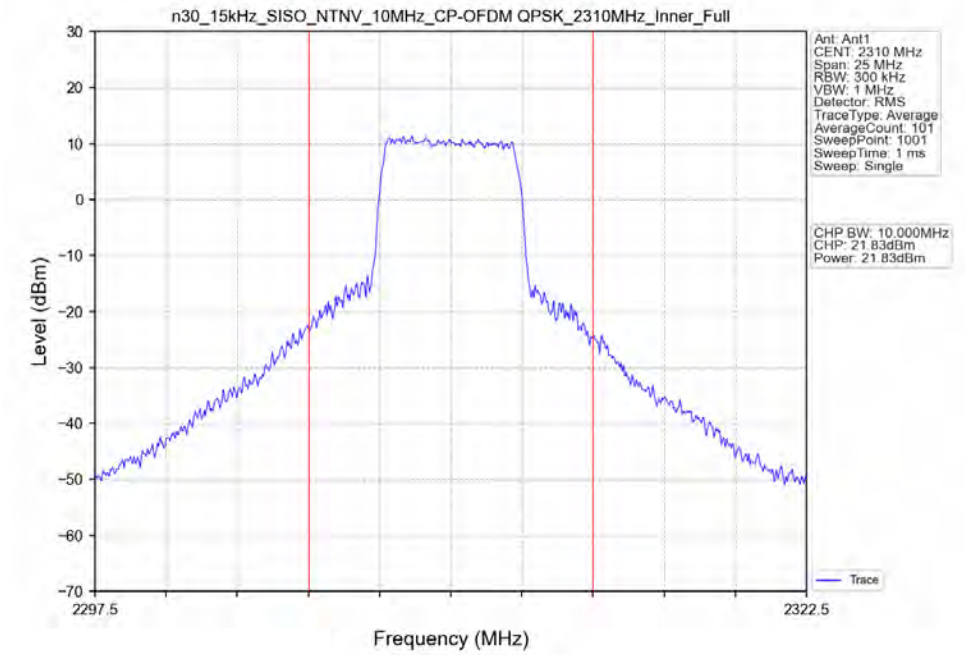

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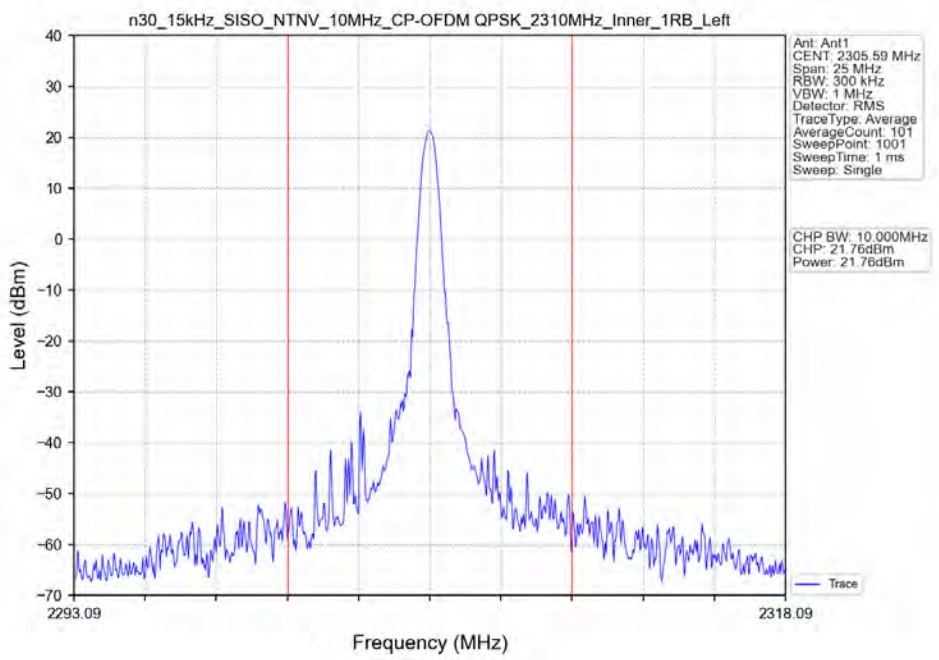

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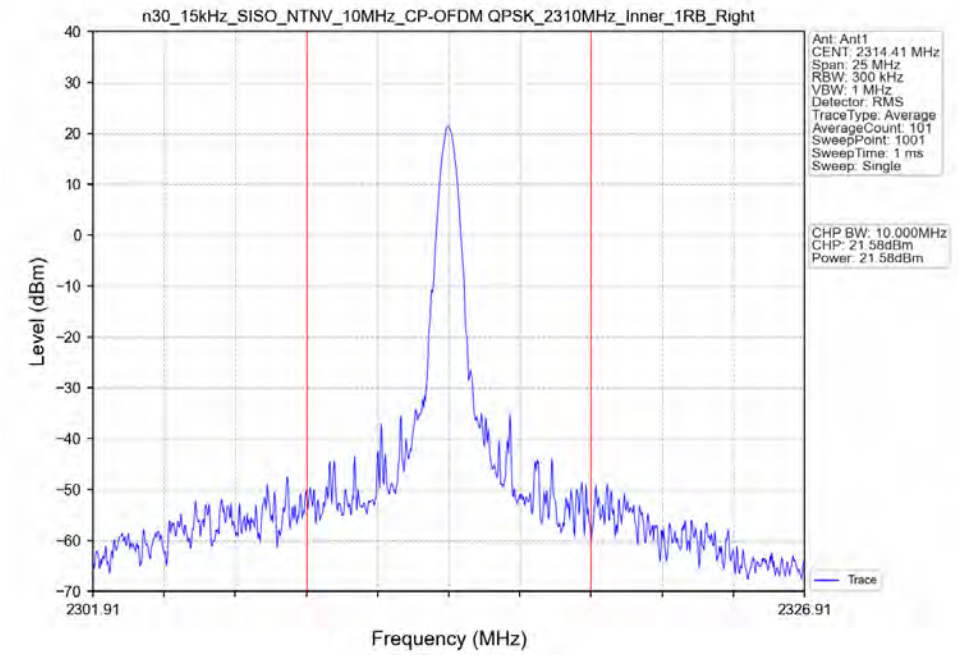

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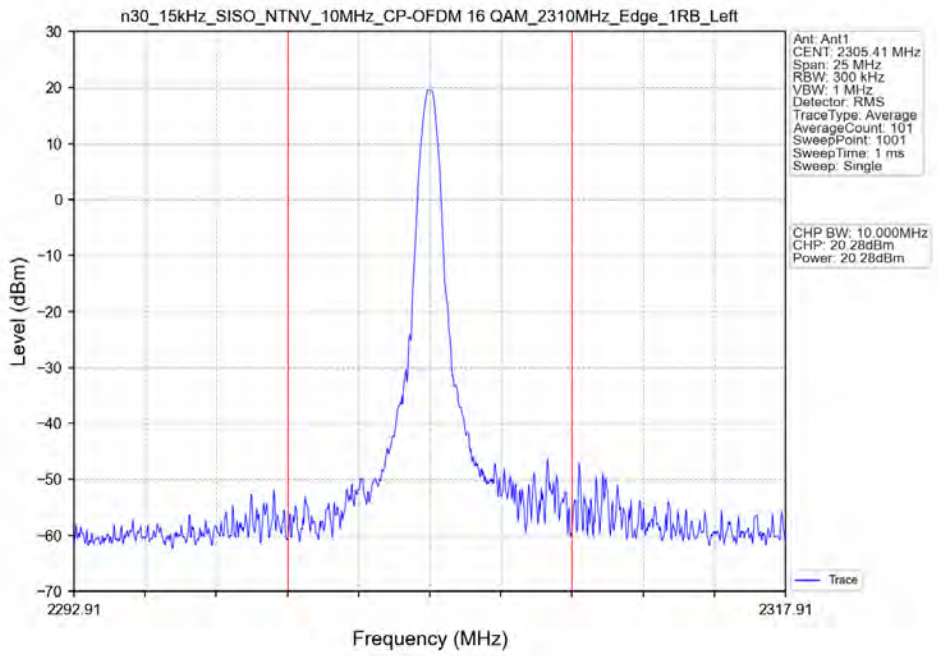

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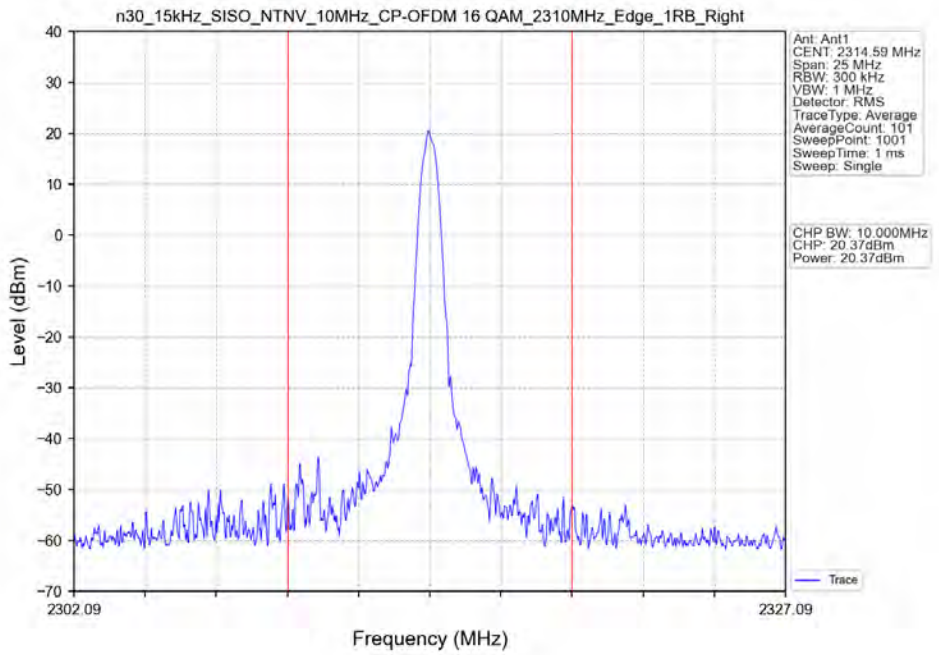

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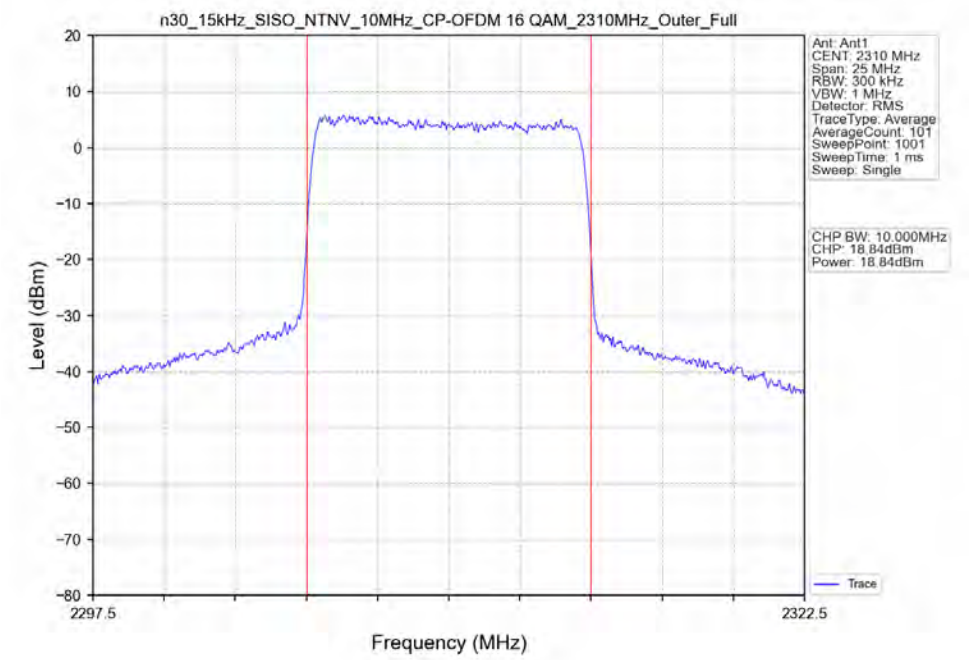

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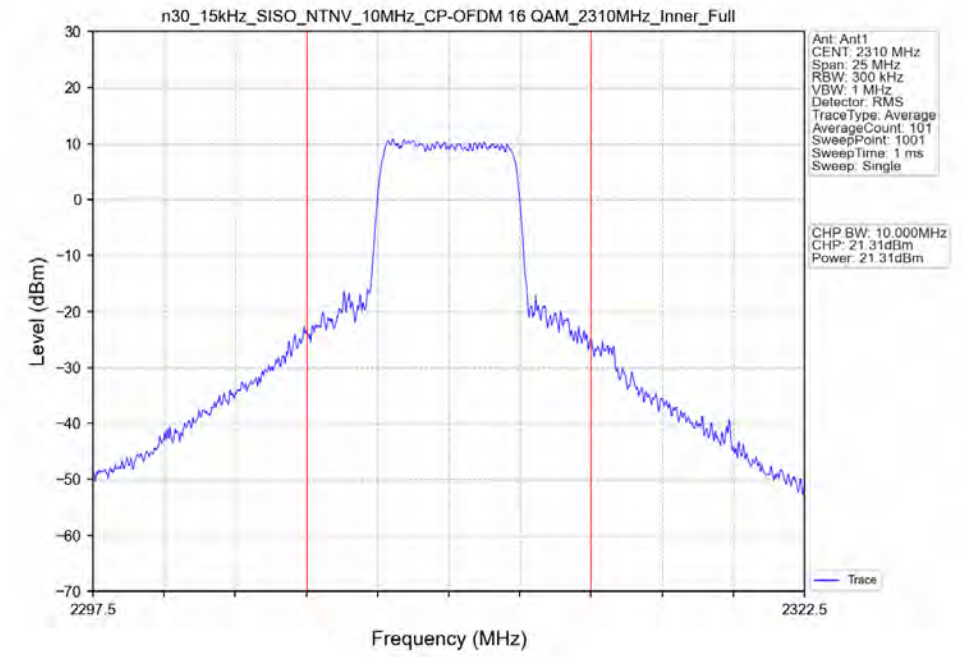

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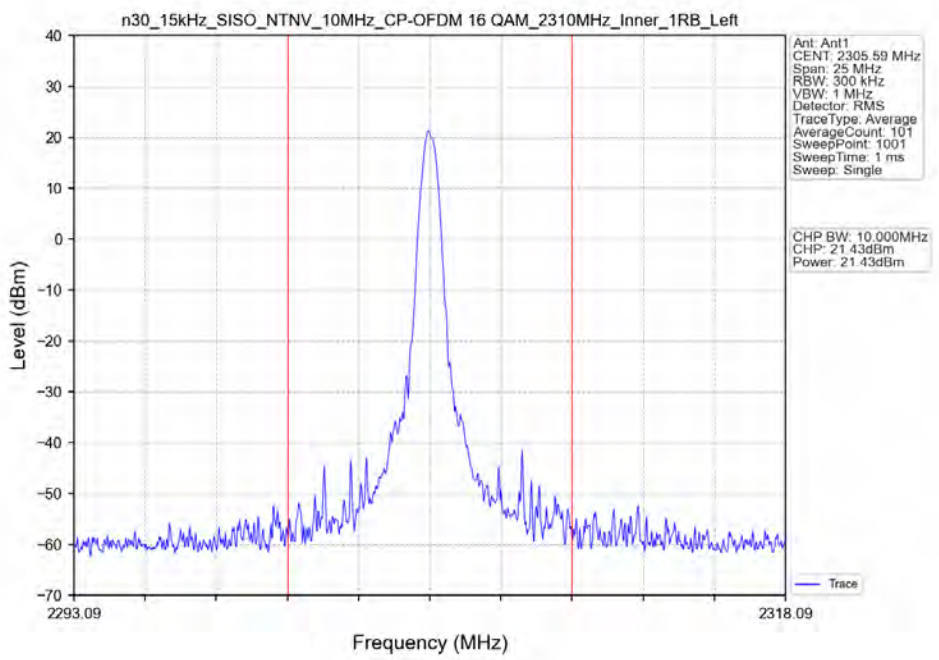

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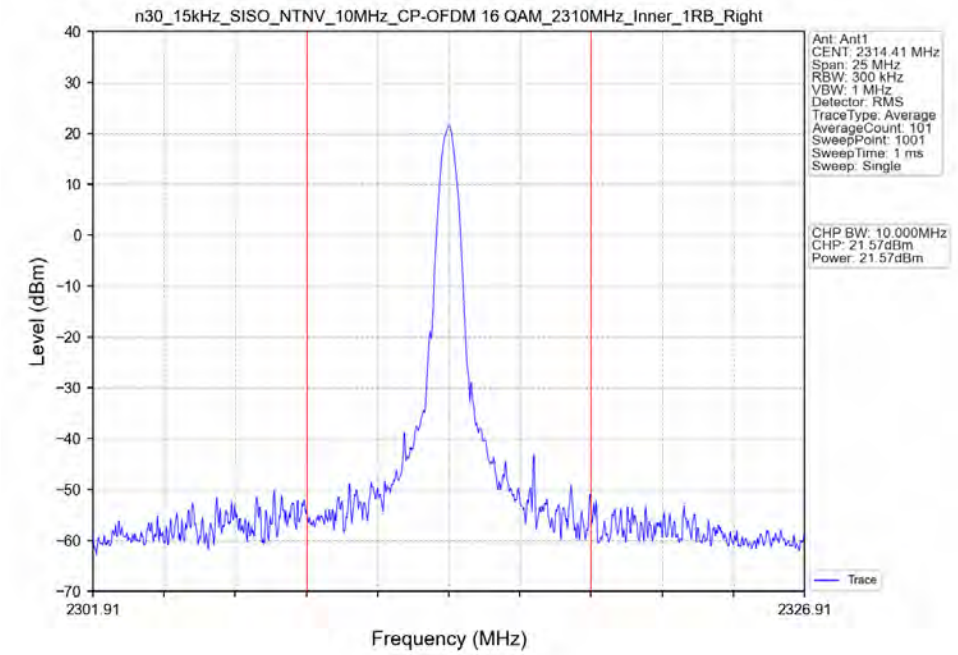

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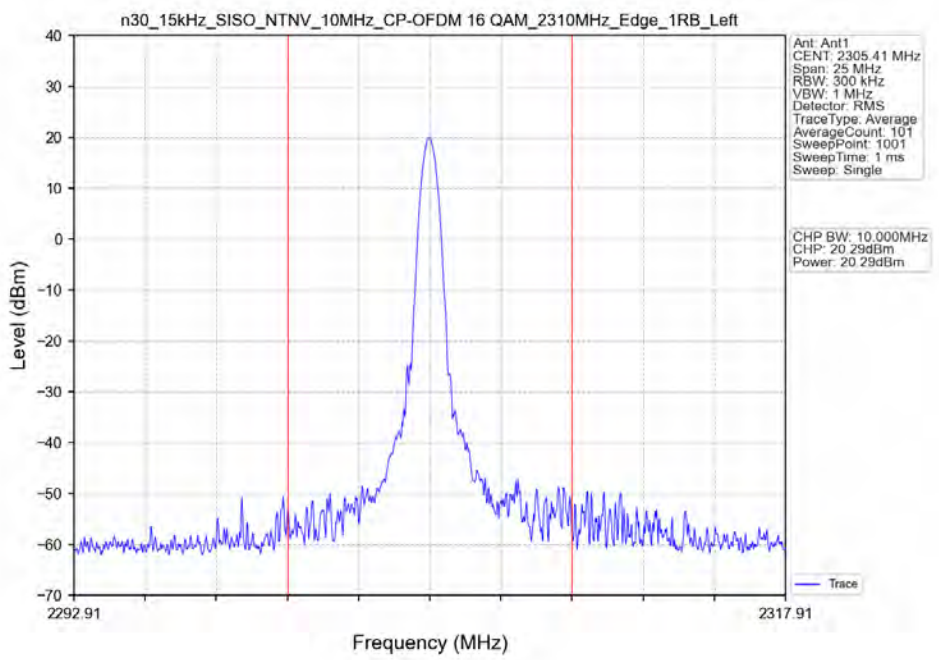
n30_15kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_2310MHz_Edge_1RB_Left



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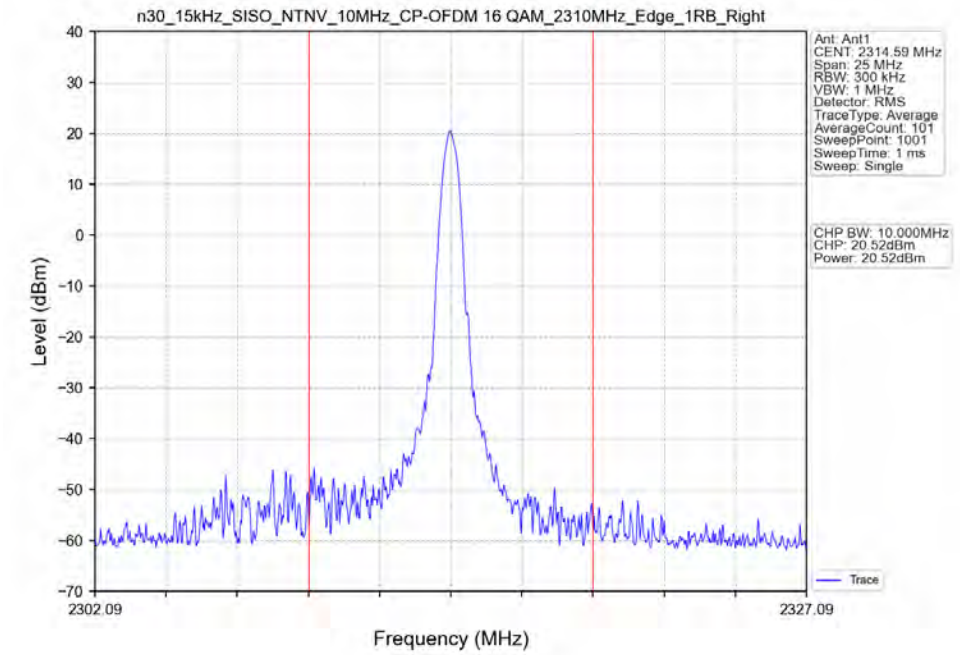

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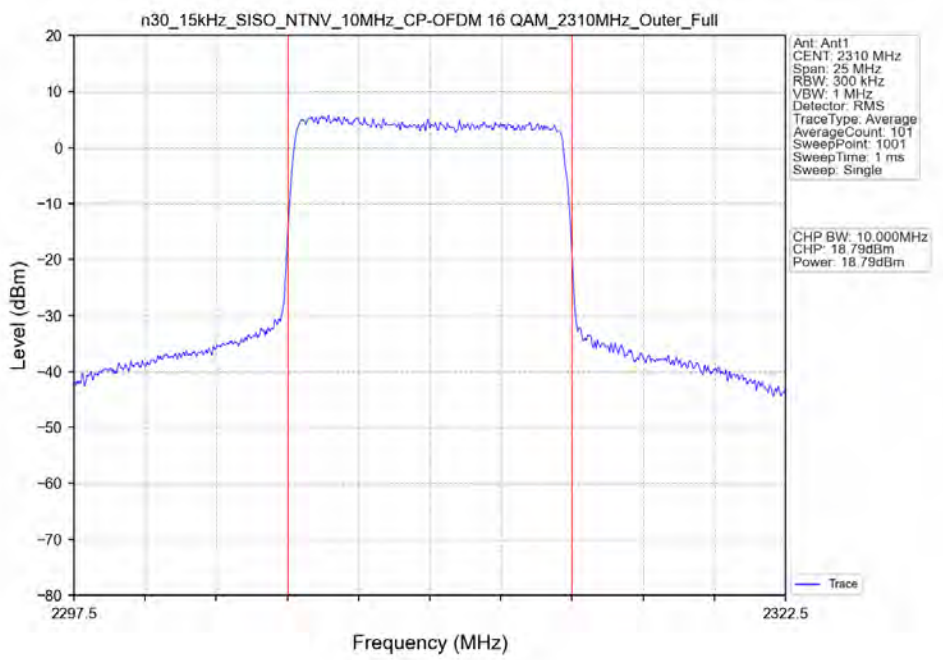

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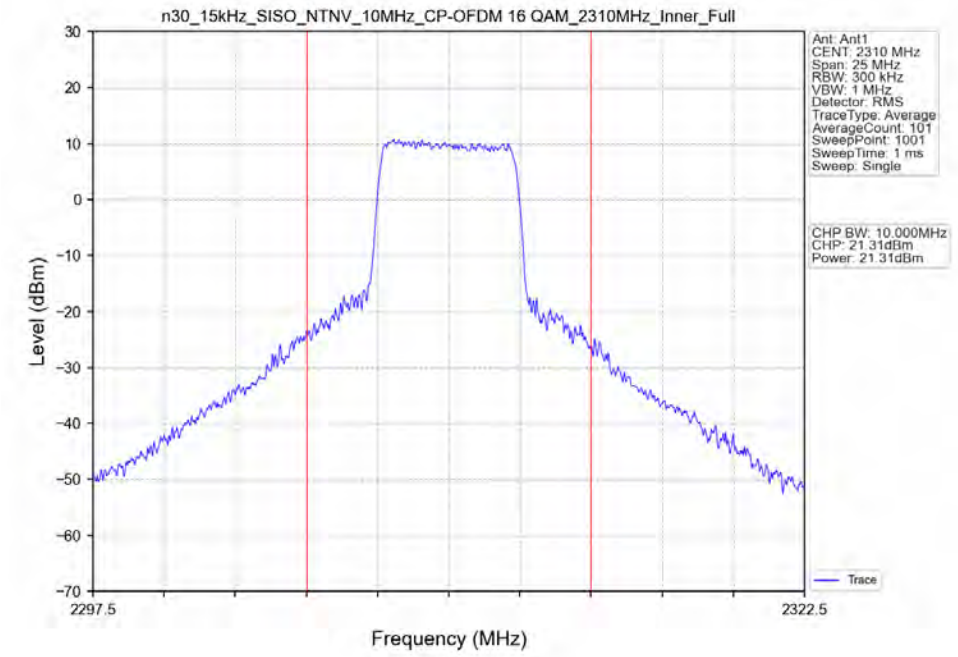

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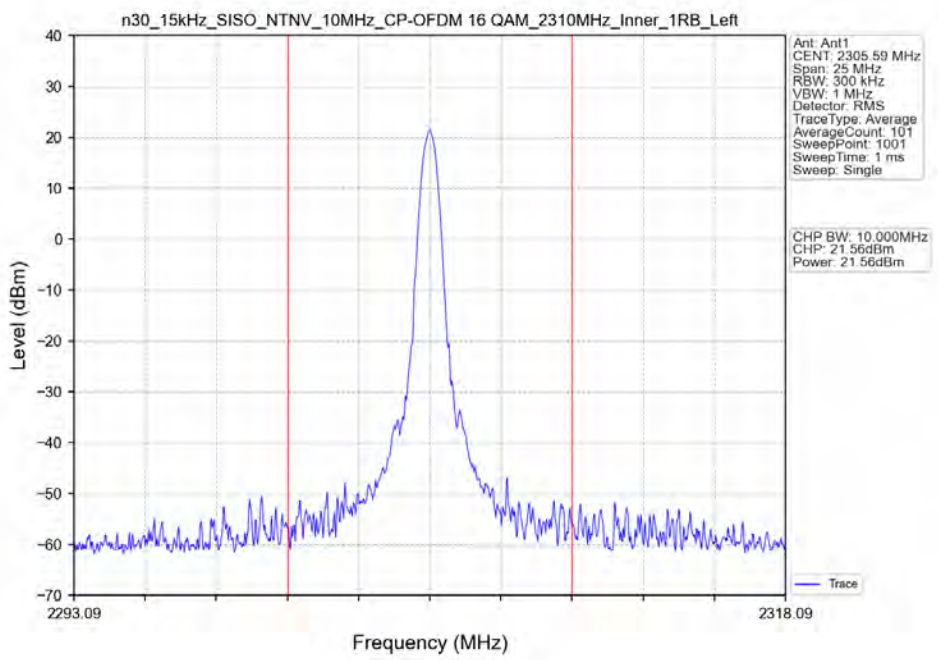

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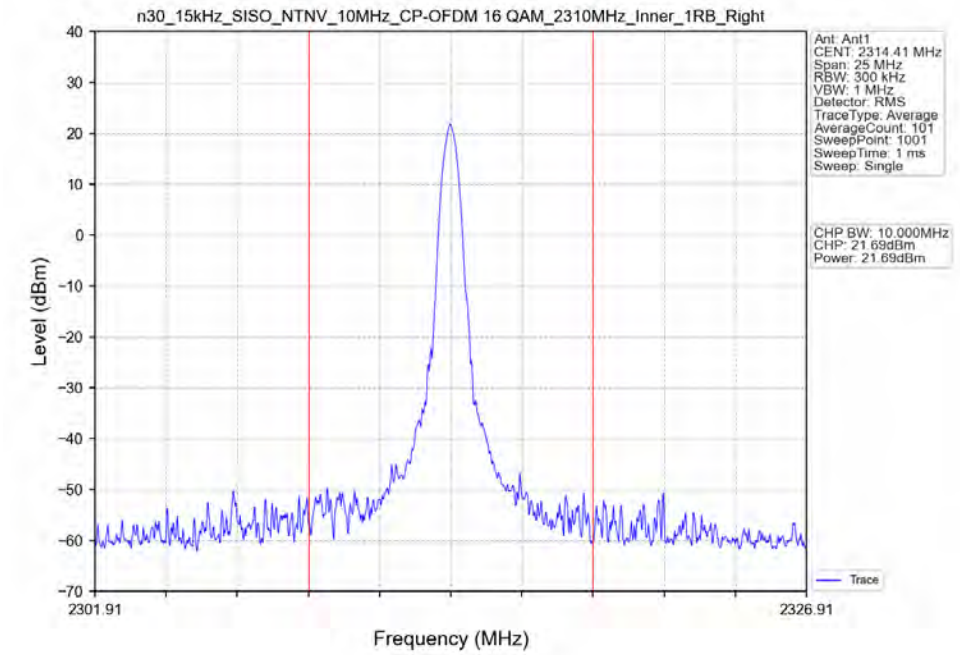

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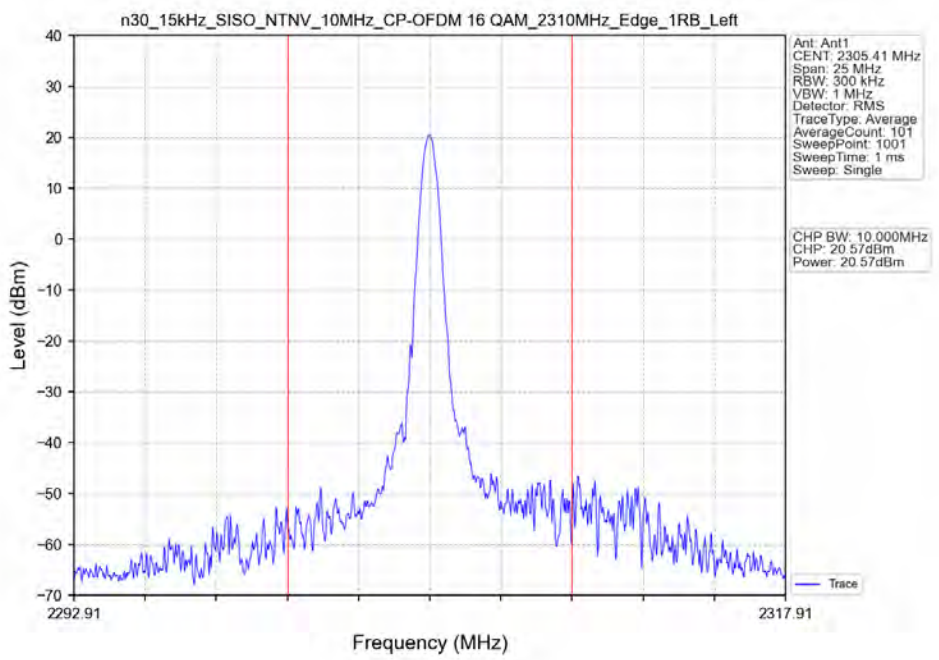

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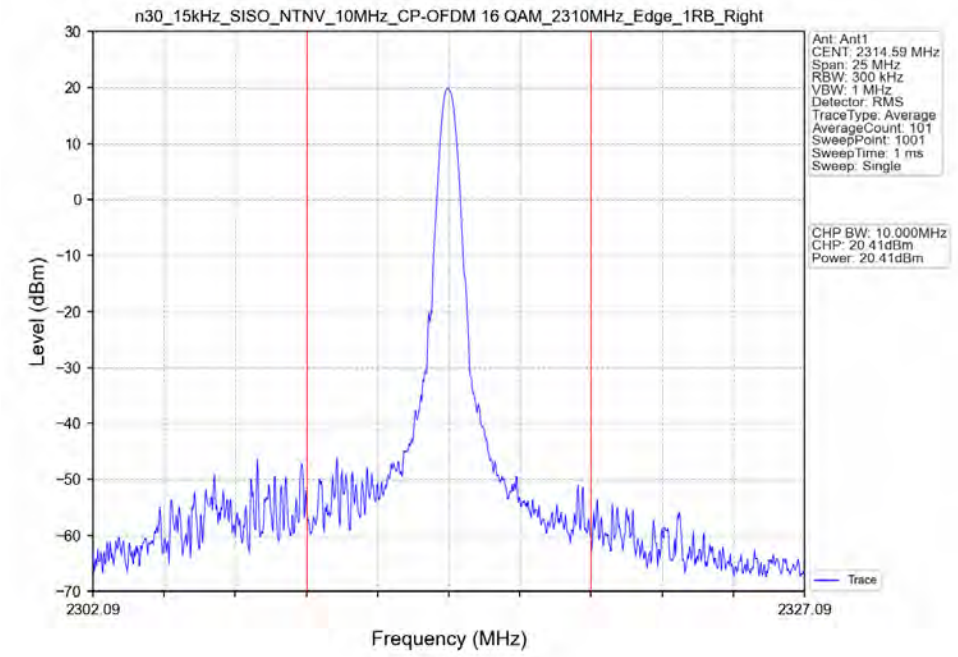

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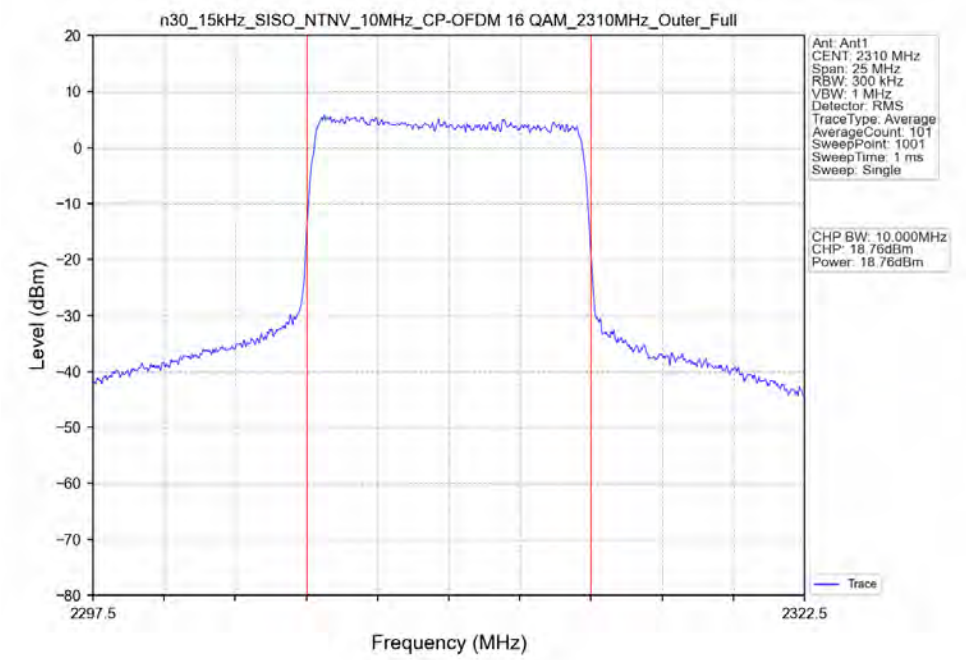

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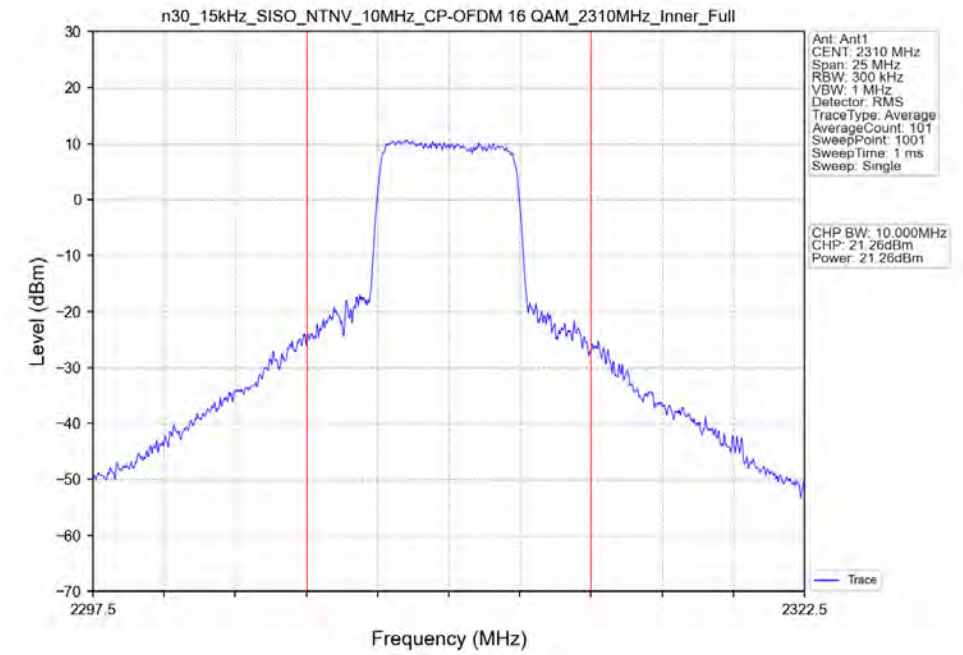

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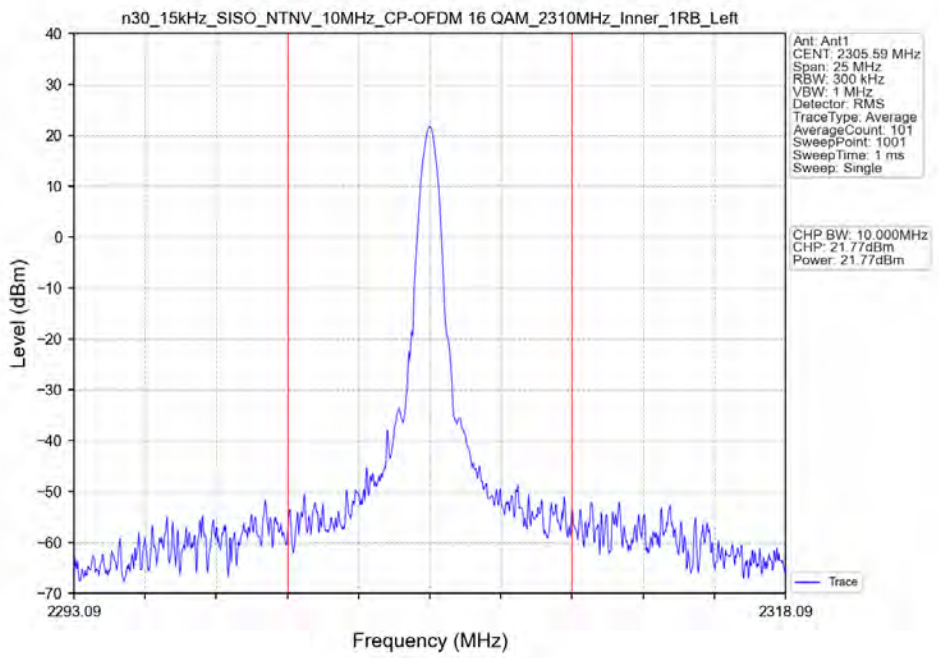

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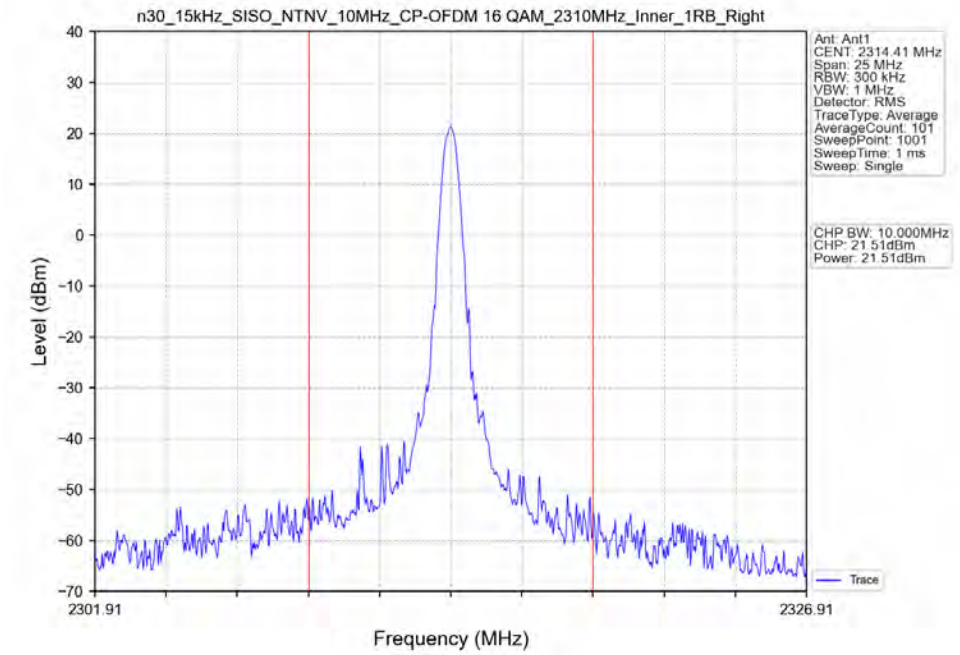

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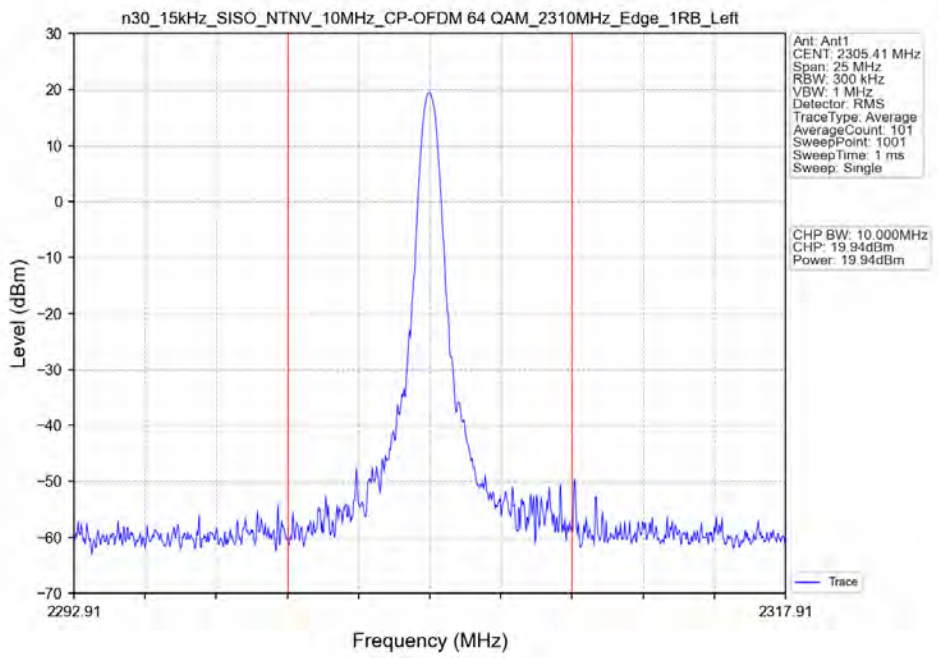

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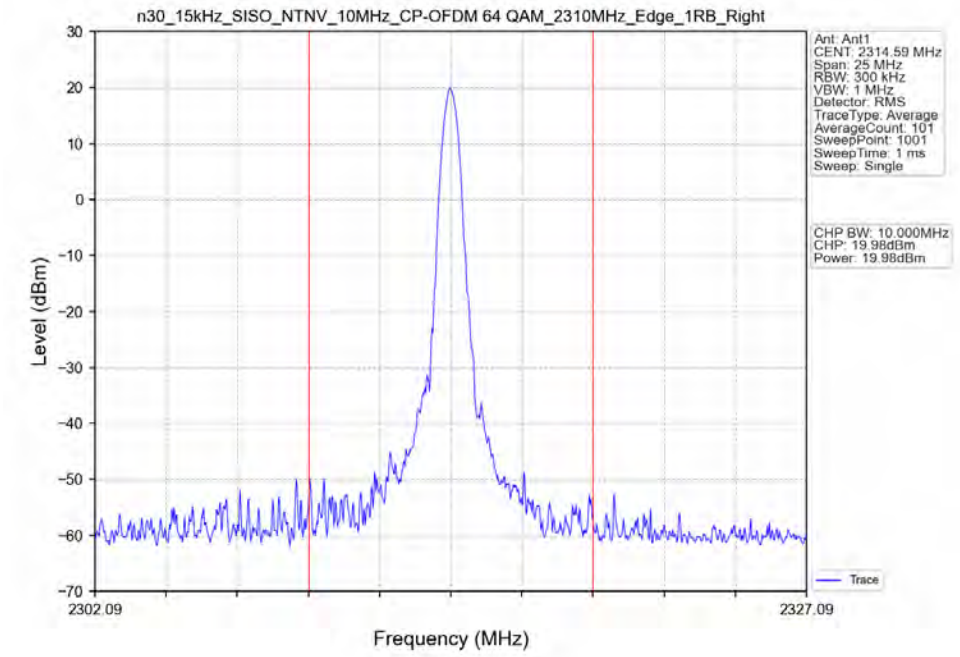

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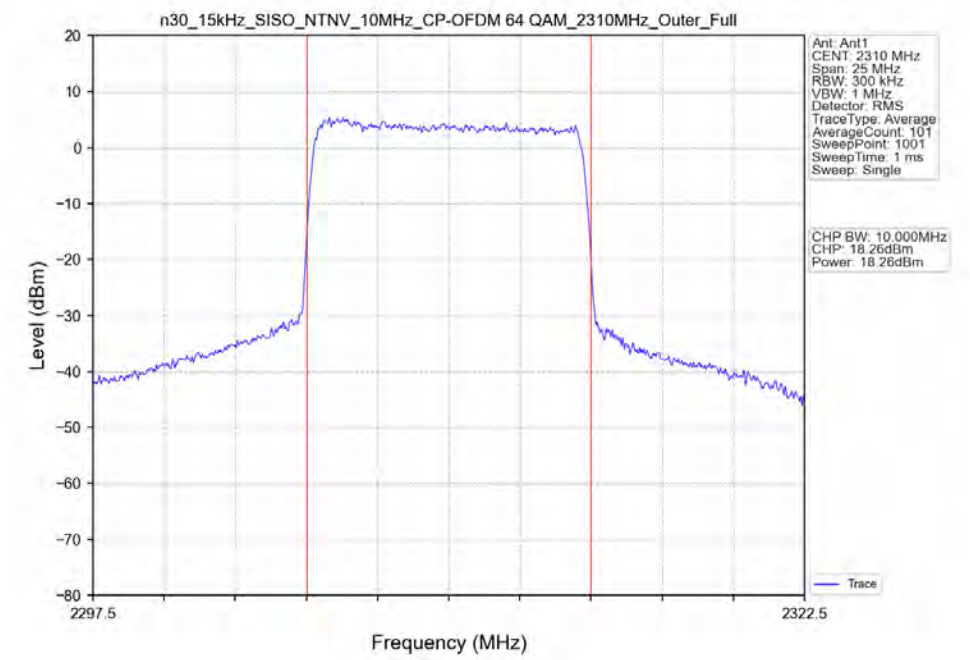
n30_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_2310MHz_Outer_Full



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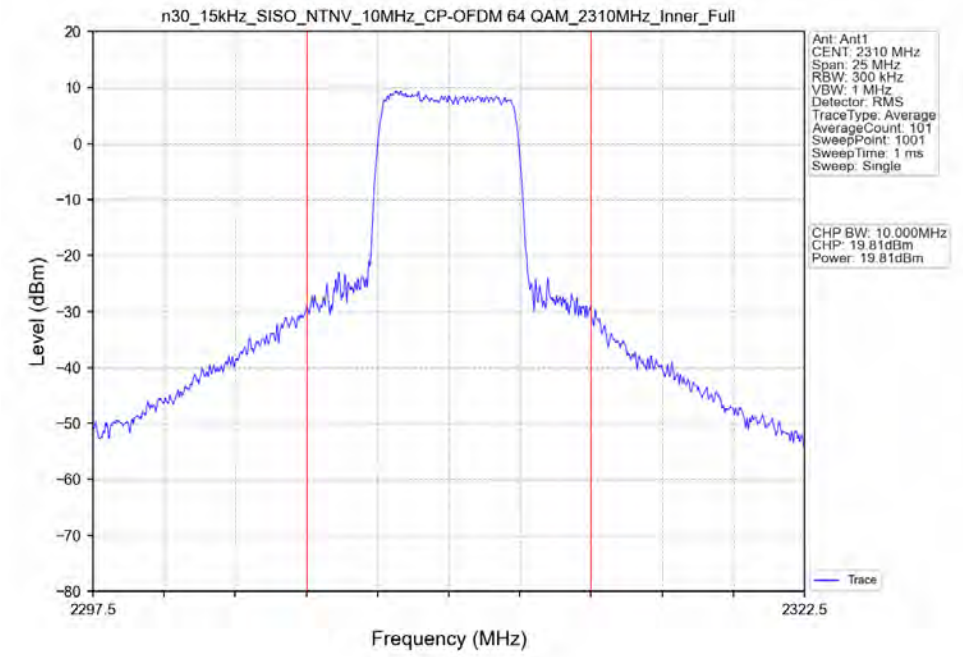

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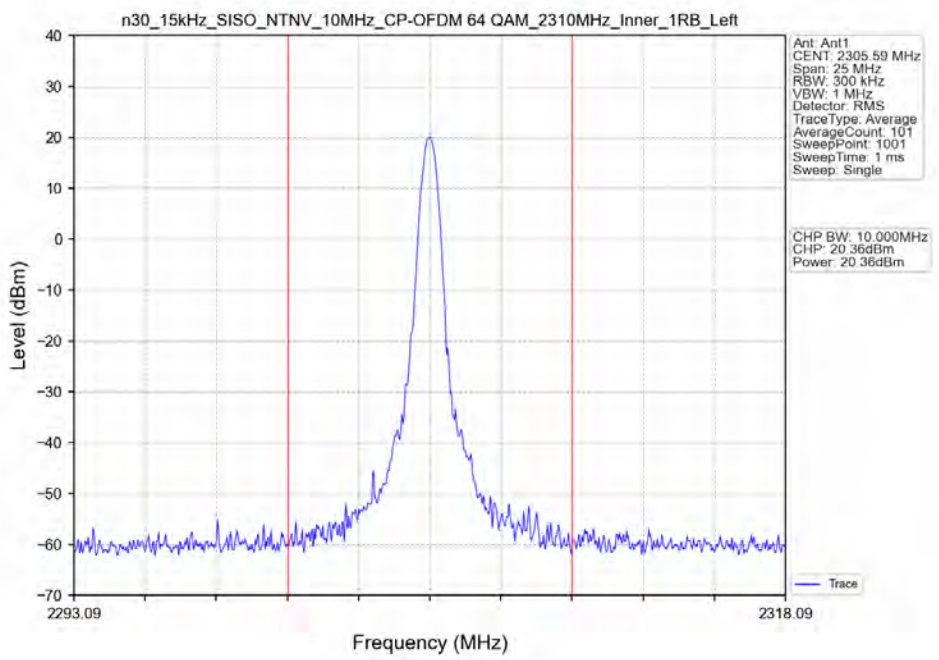

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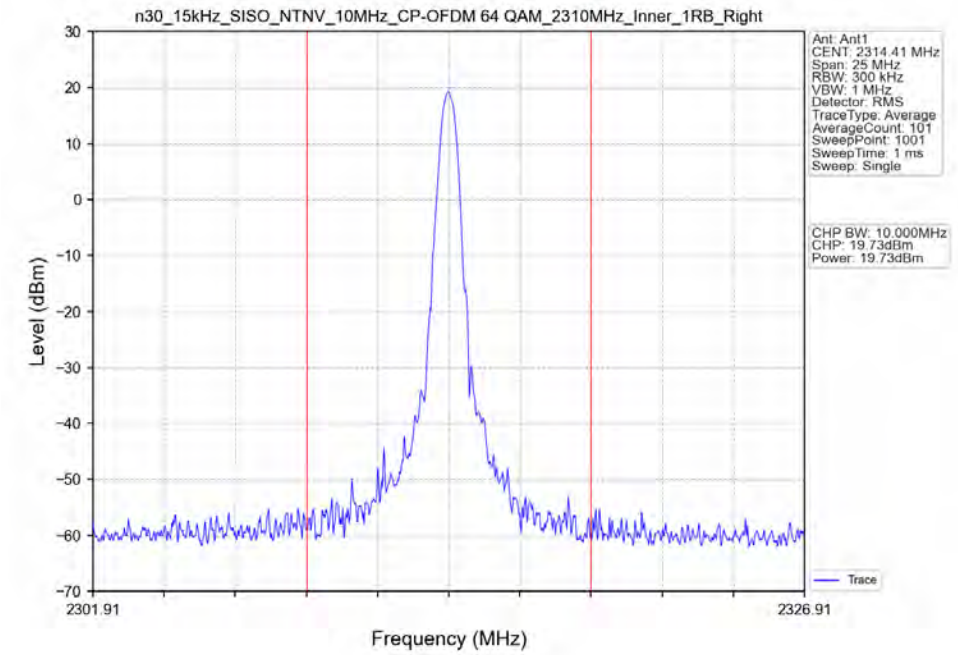

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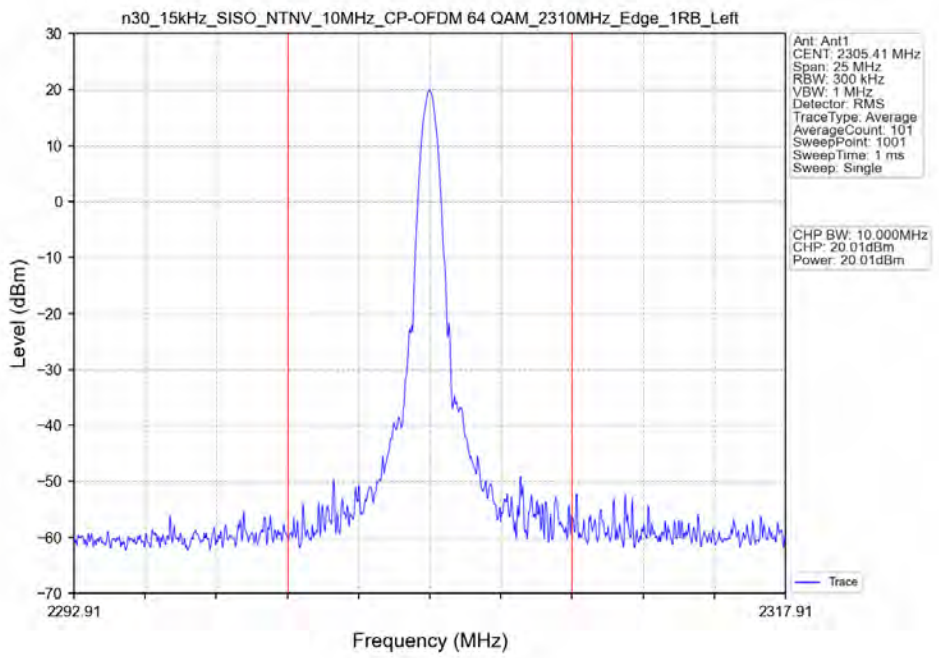

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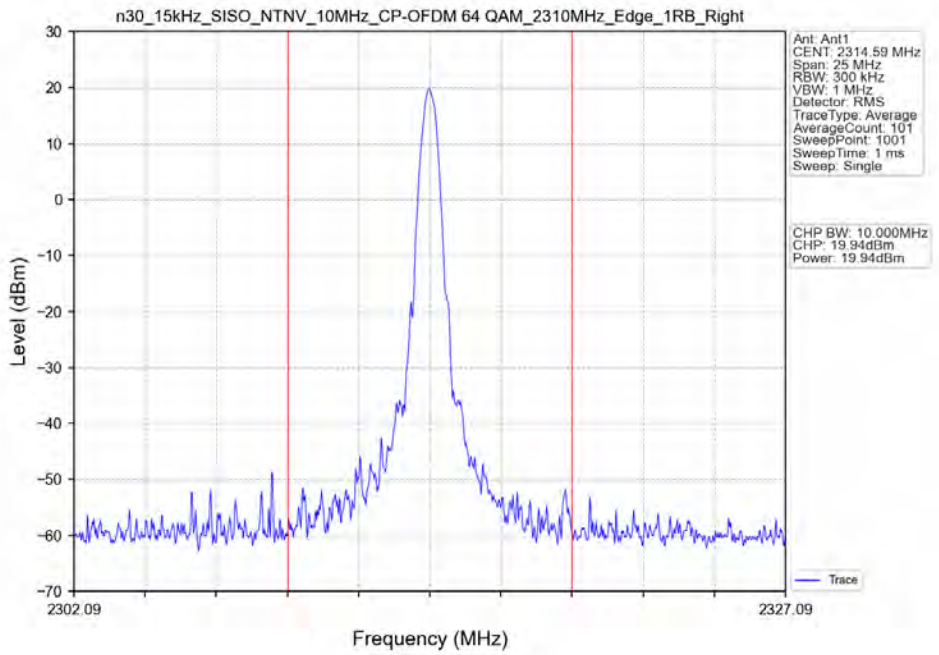

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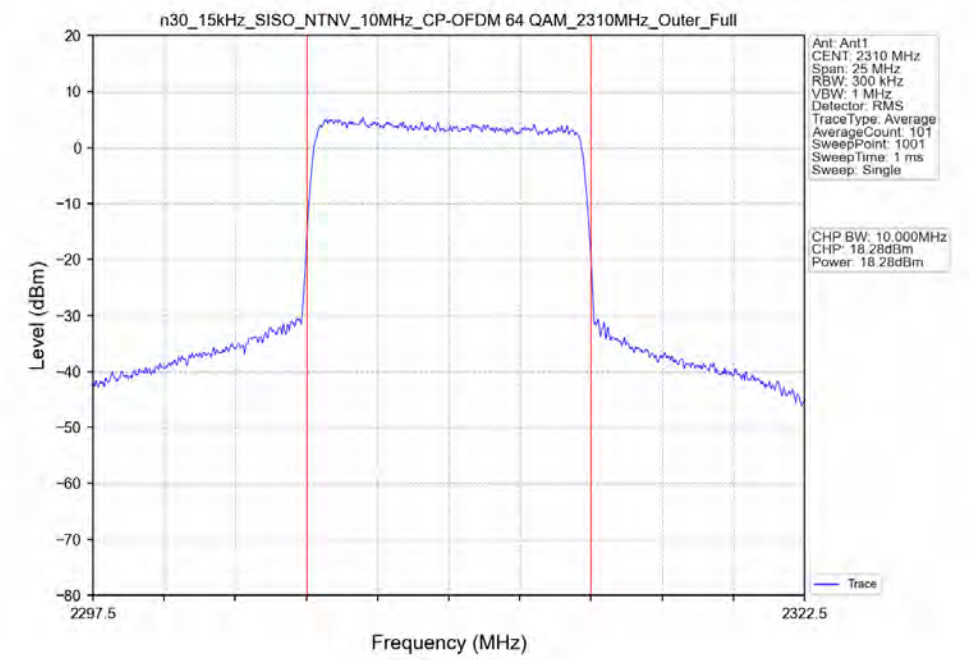

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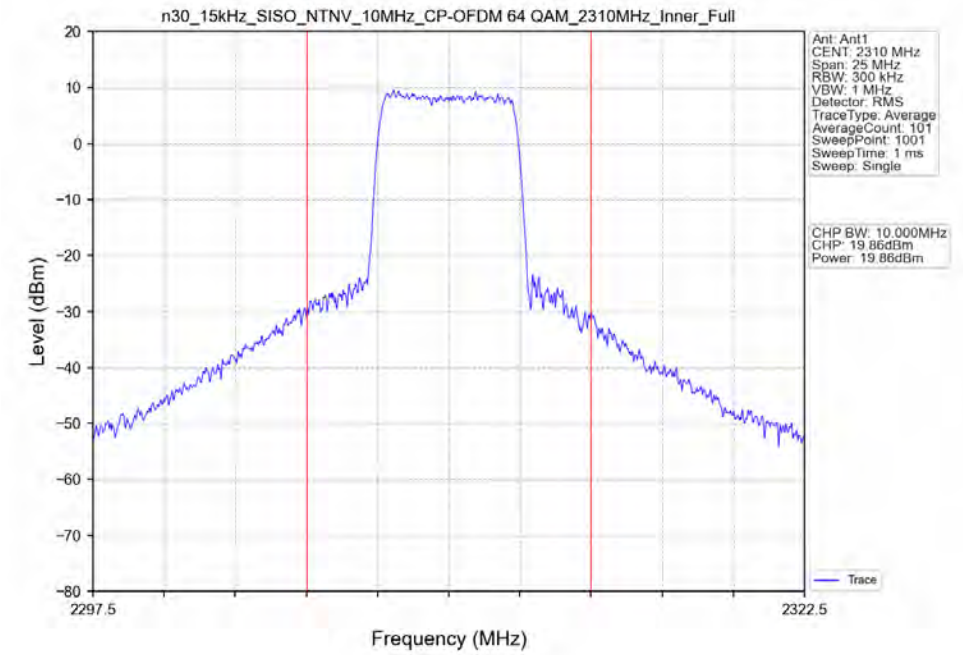

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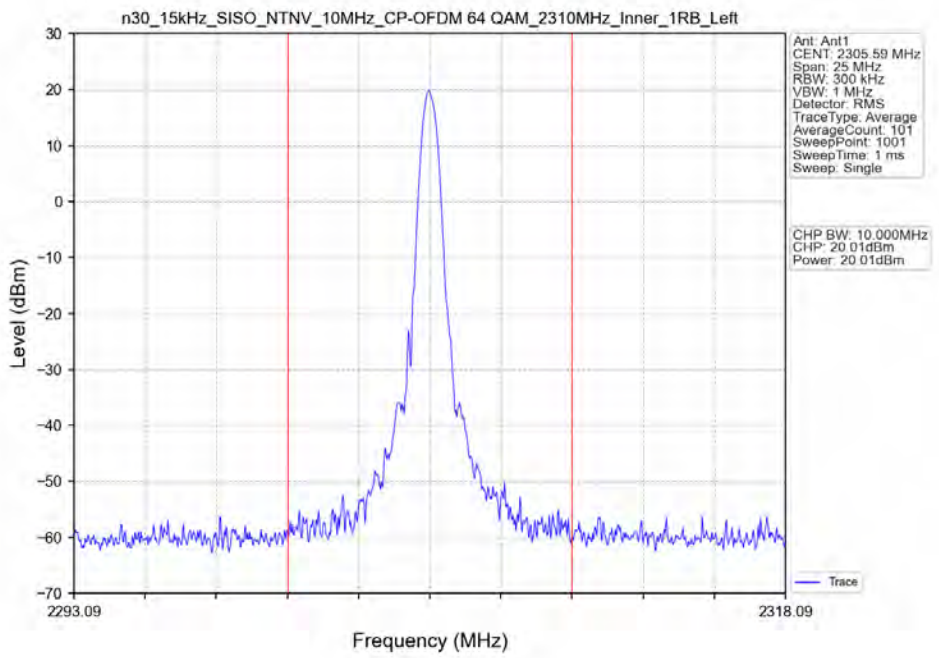

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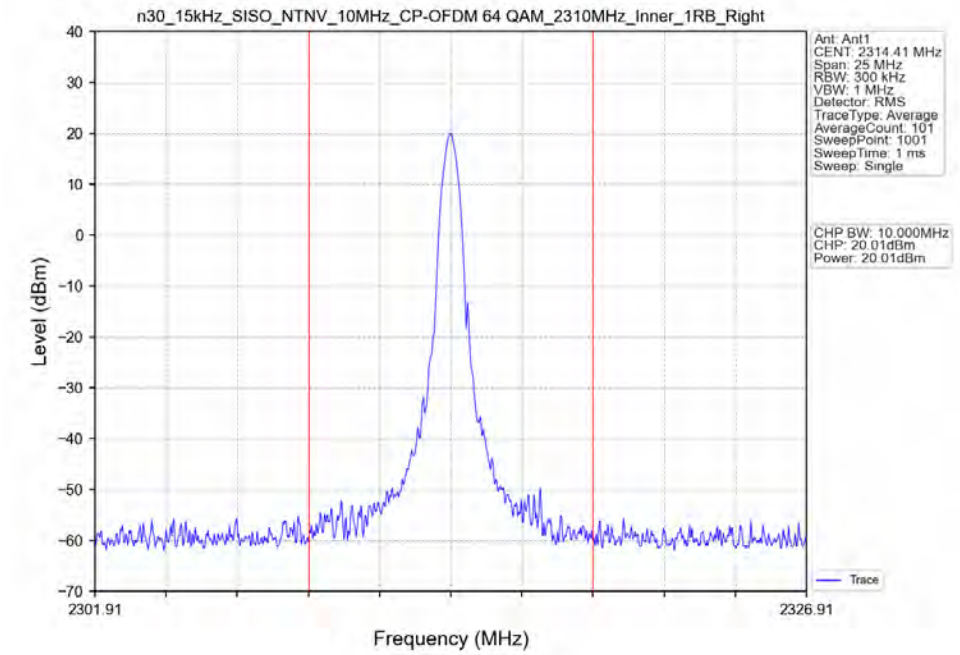

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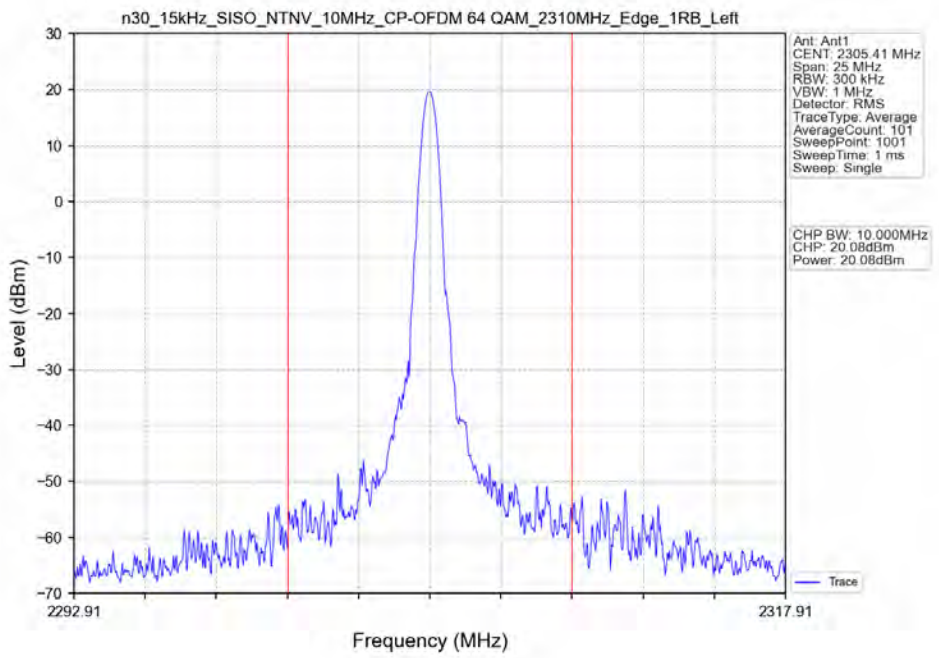

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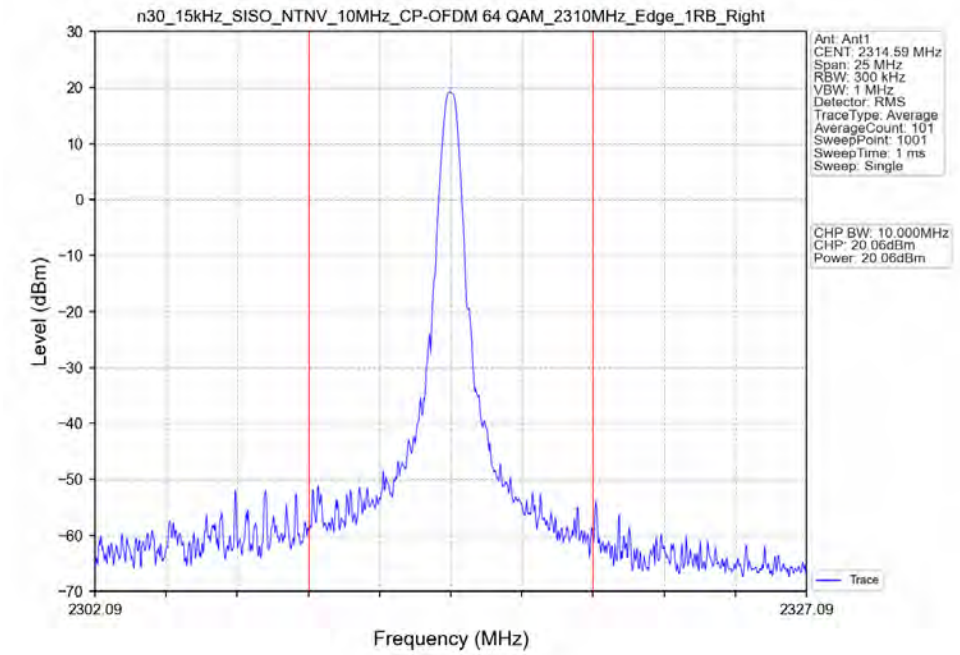

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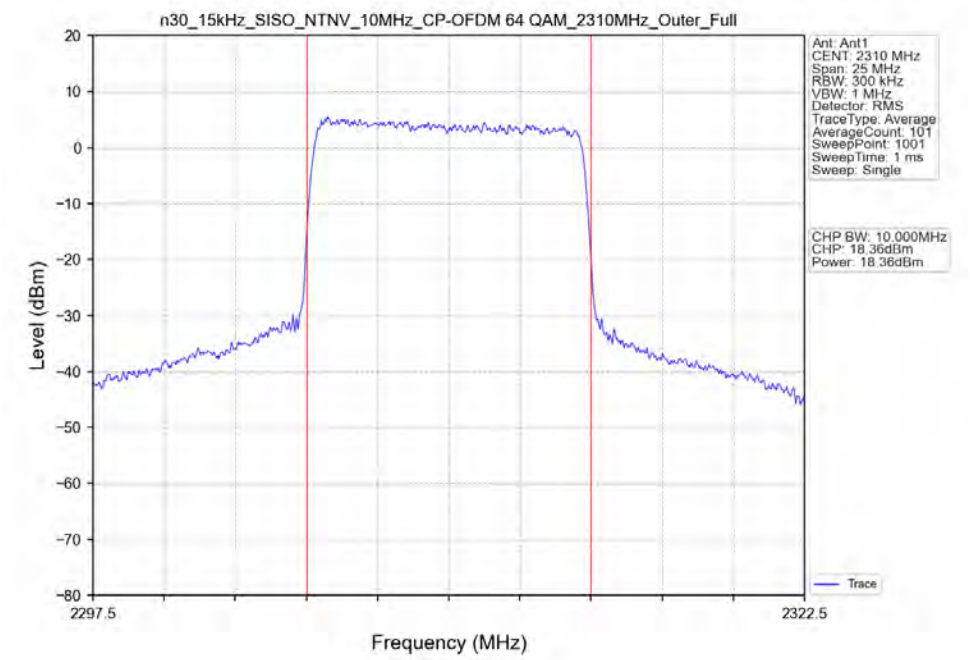

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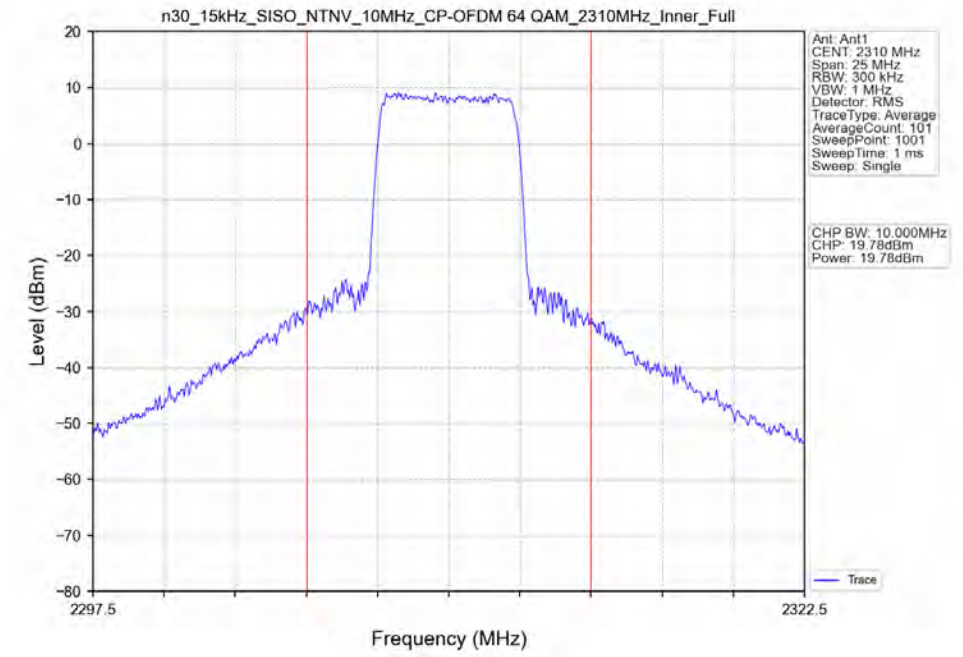

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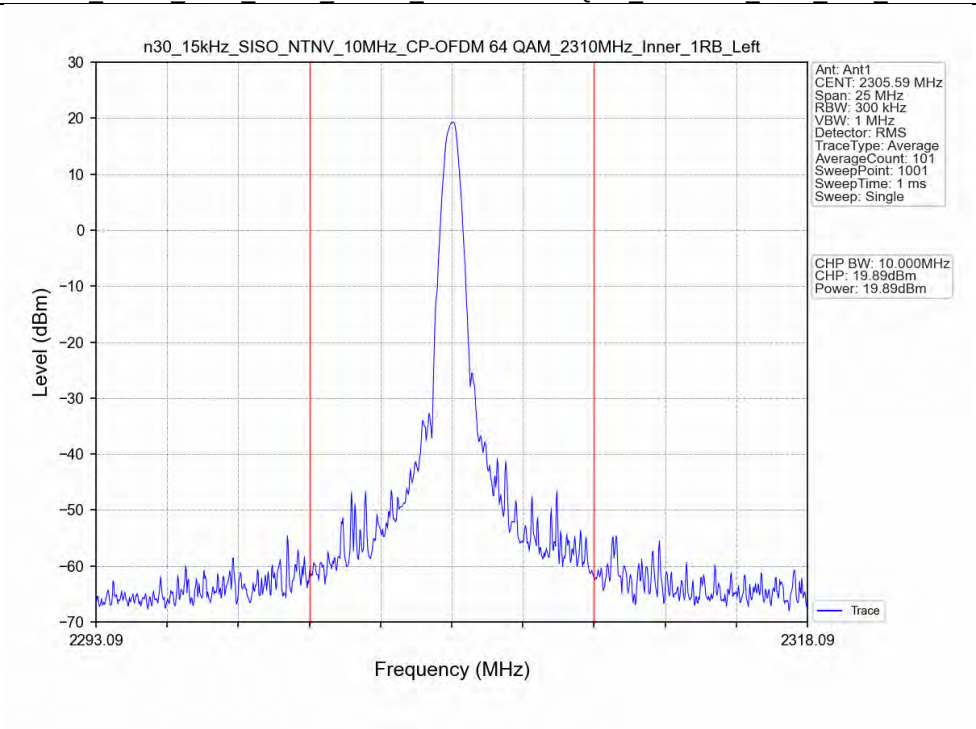

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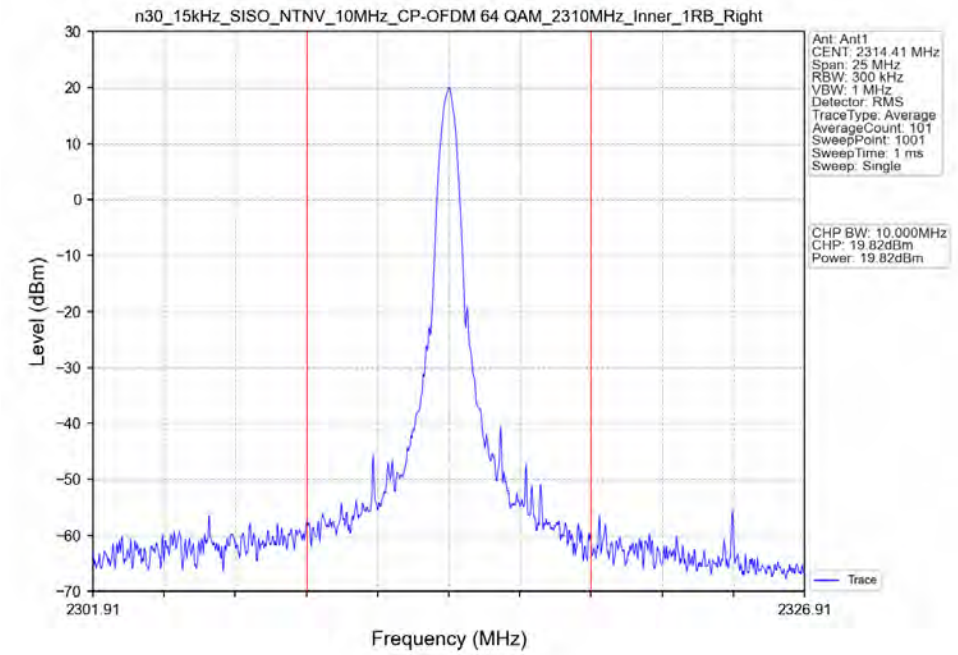

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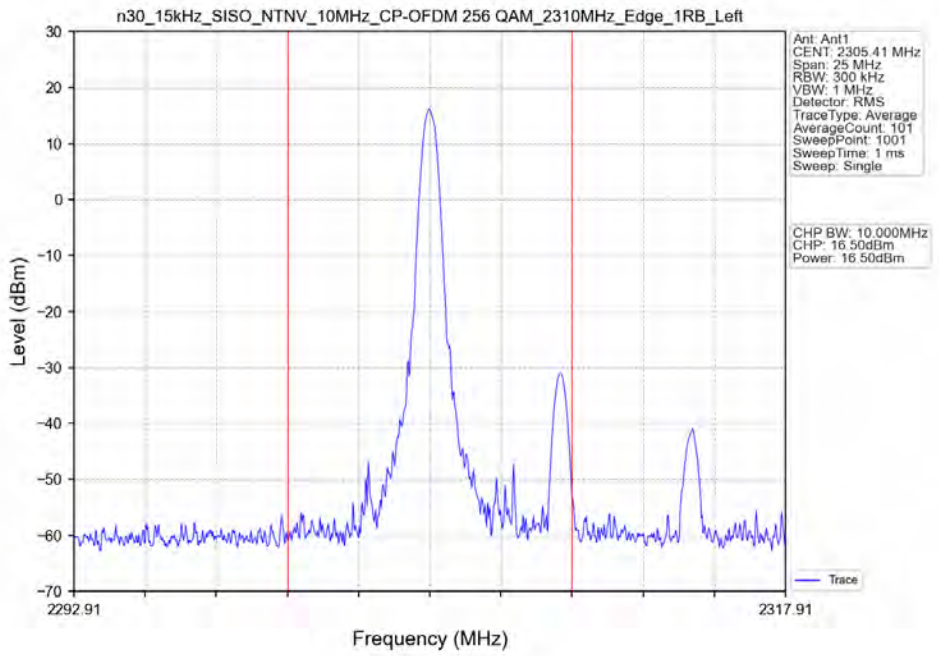

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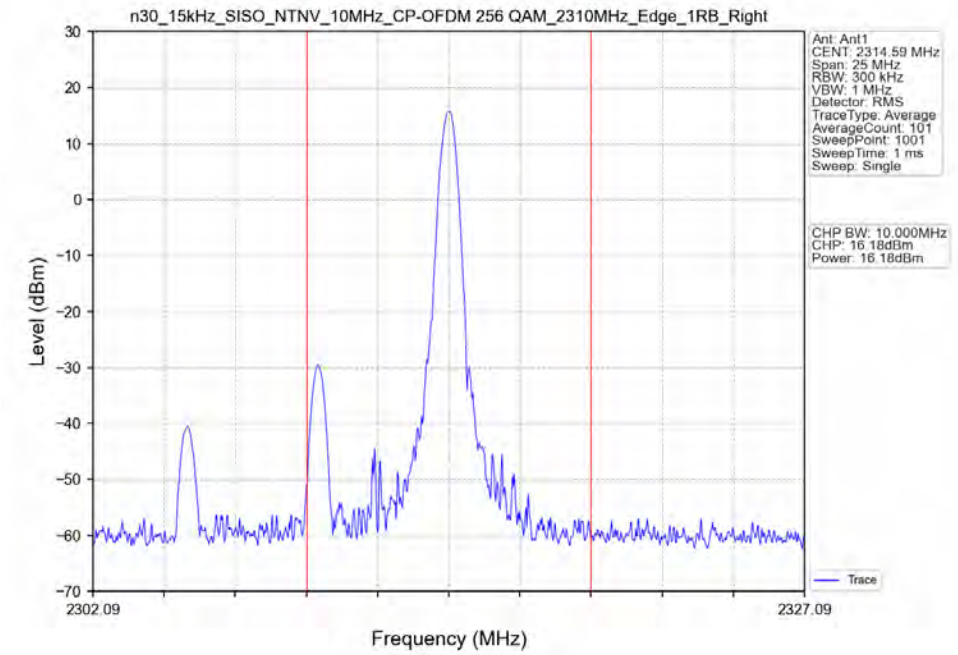

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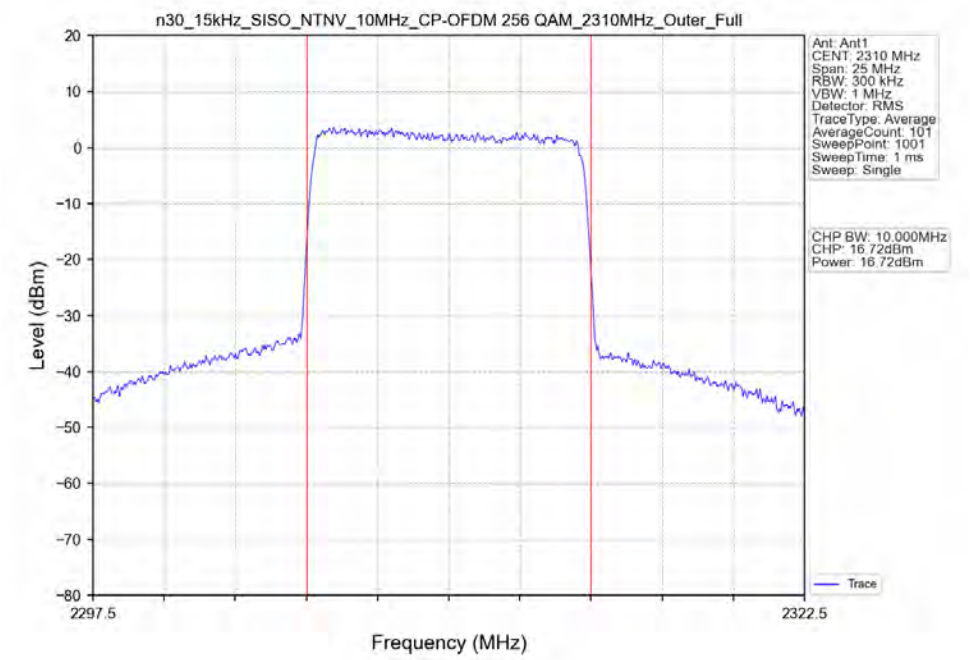

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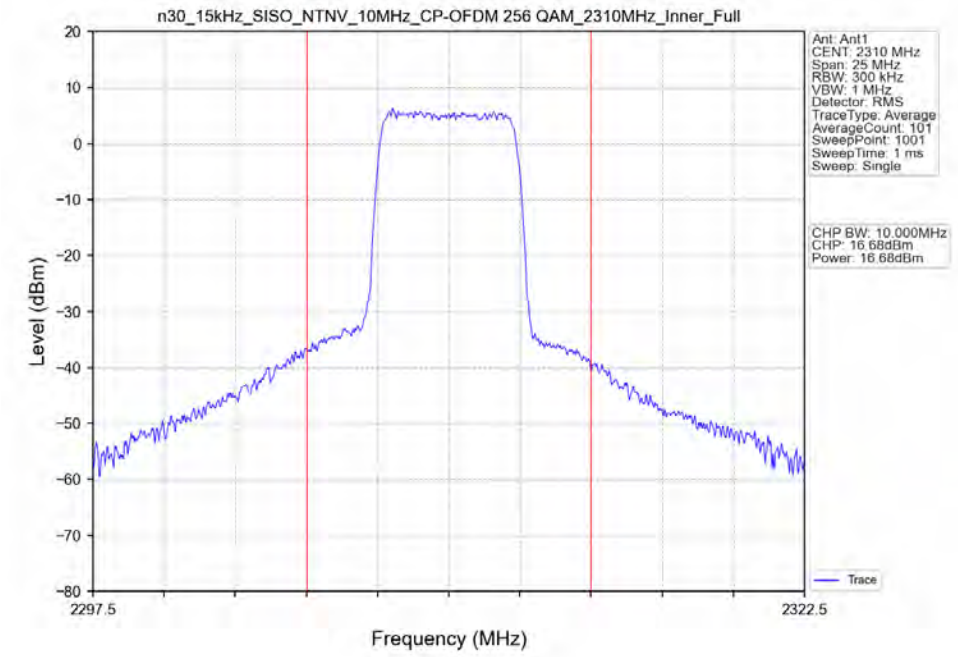

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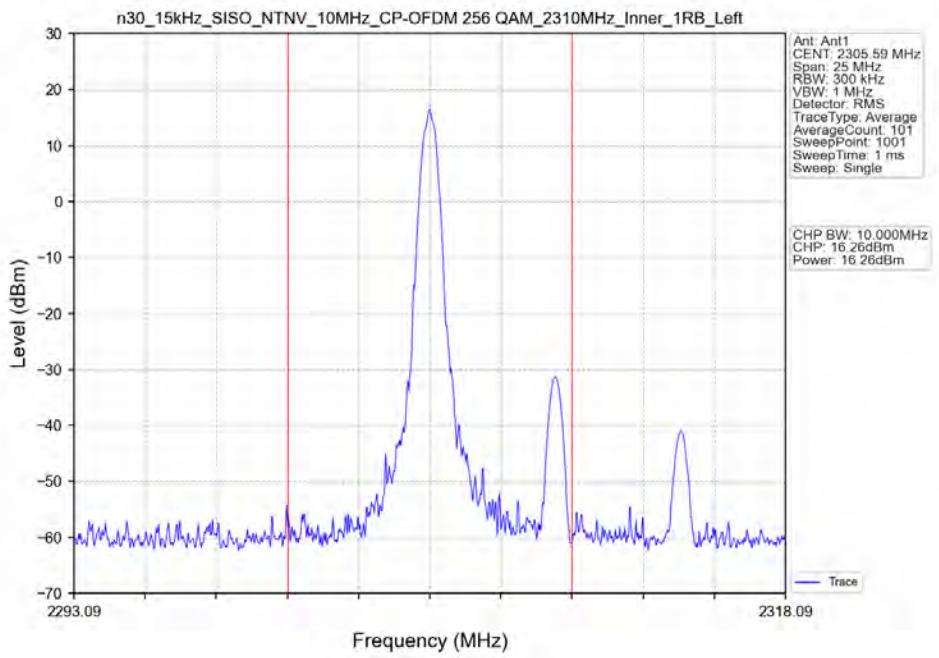

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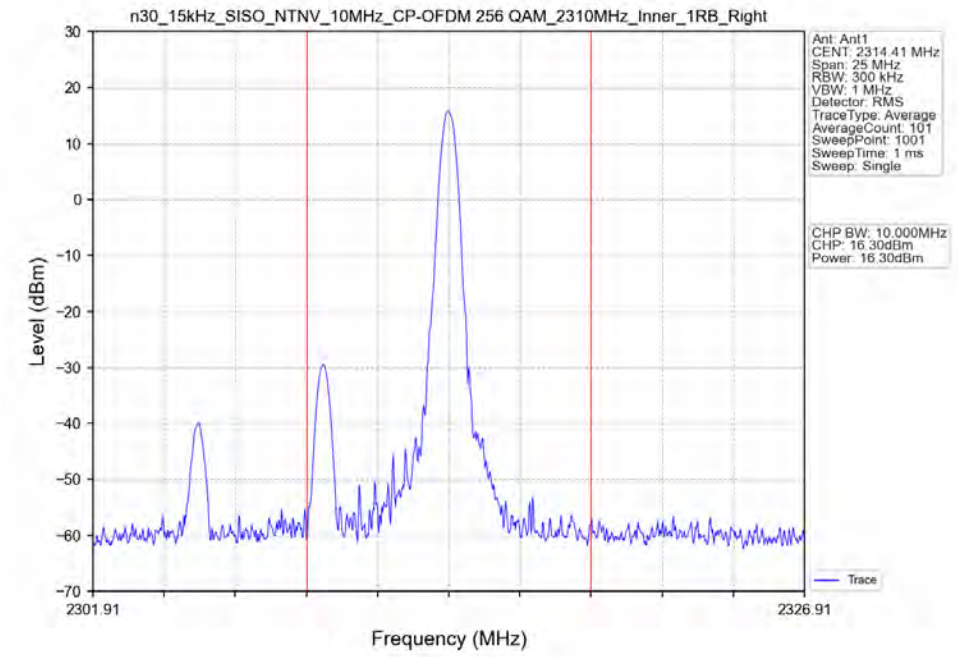

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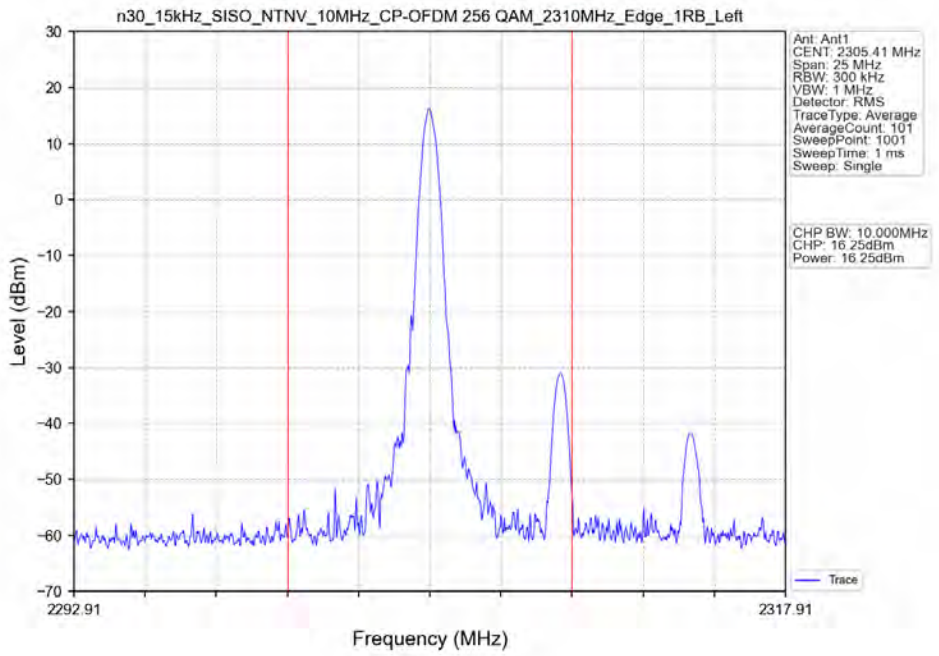

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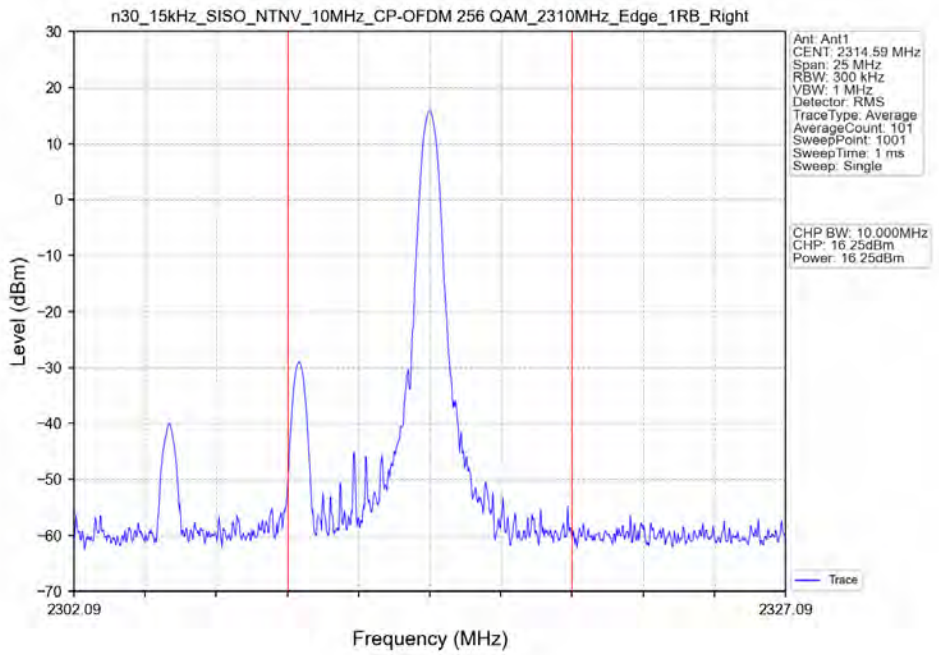

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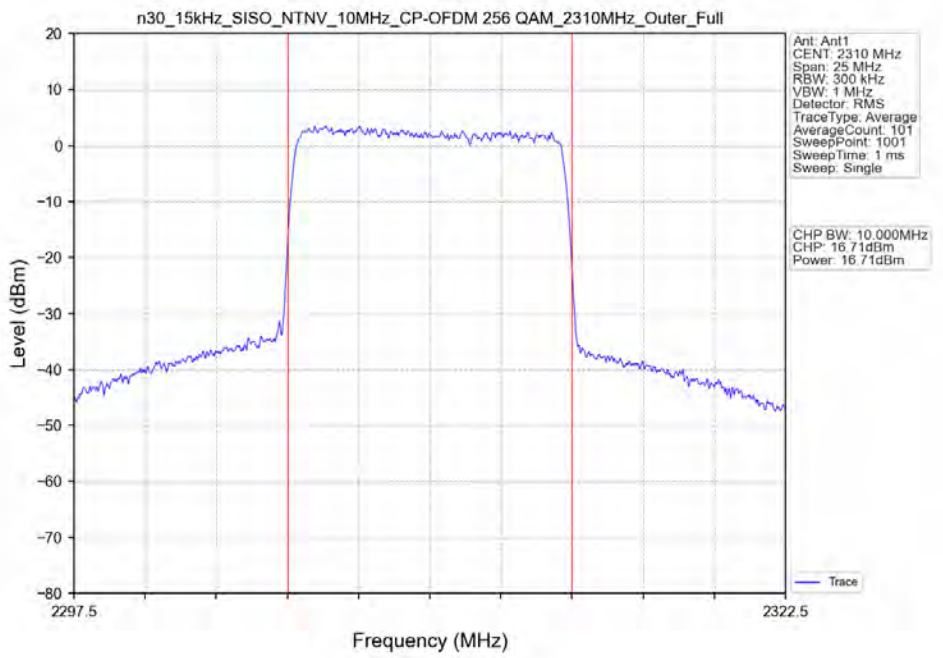

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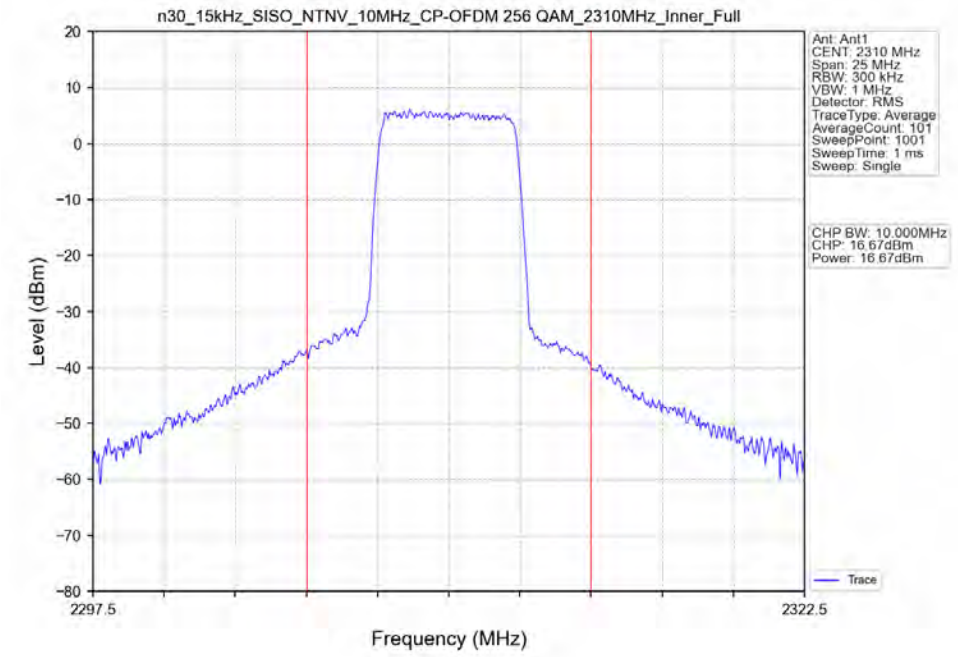

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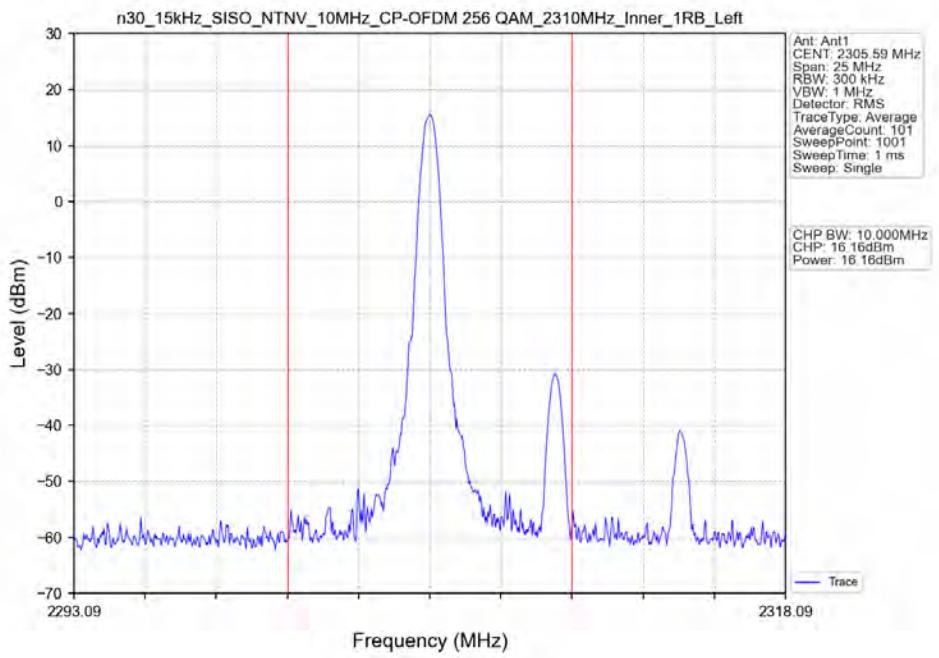
n30_15kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_2310MHz_Inner_1RB_Left



n30_15kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_2310MHz_Inner_1RB_Right

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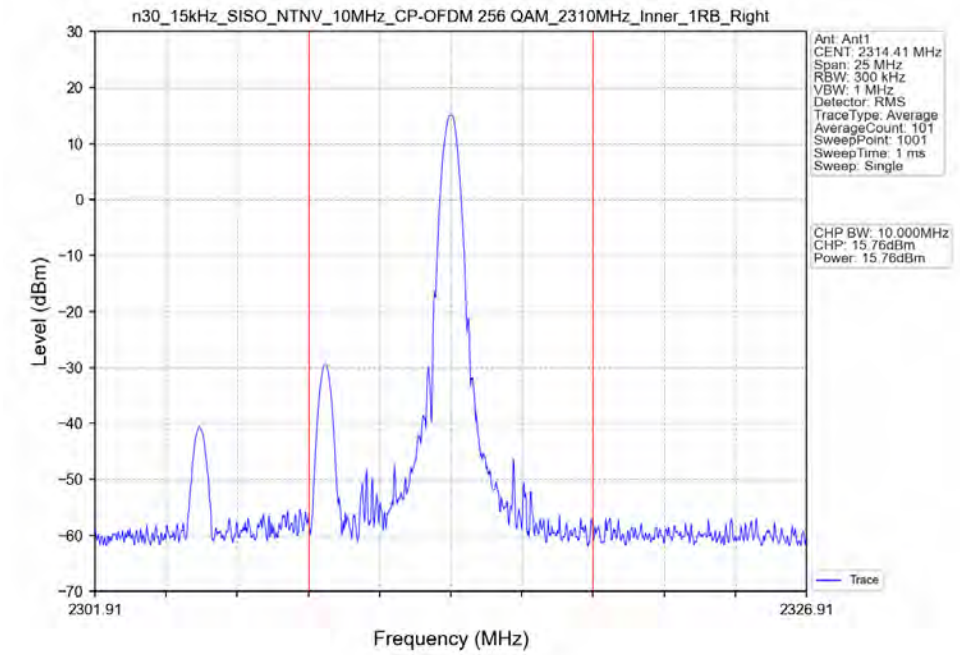

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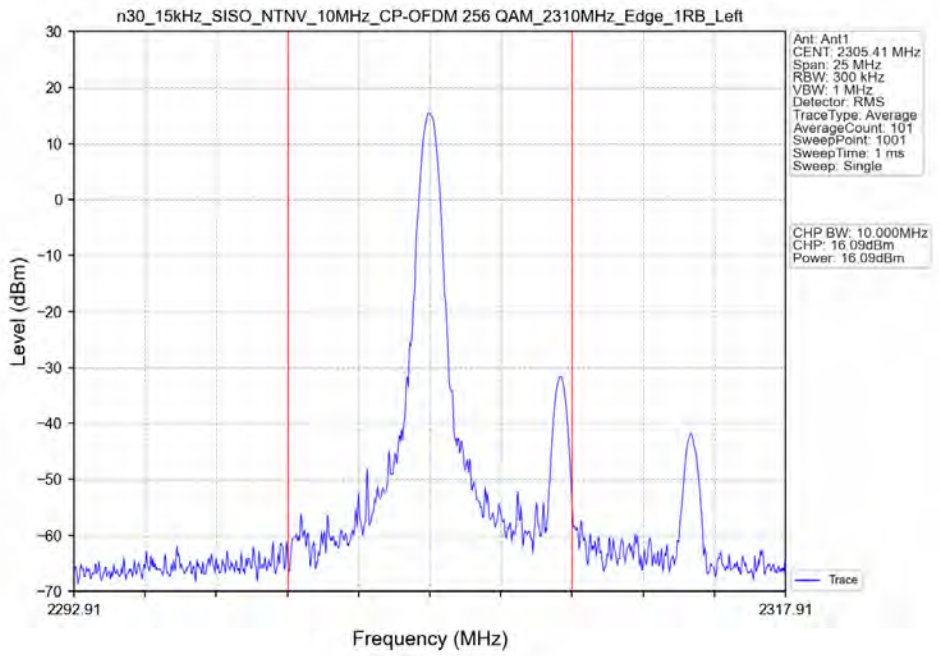
n30_15kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_2310MHz_Edge_1RB_Left



n30_15kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_2310MHz_Edge_1RB_Right

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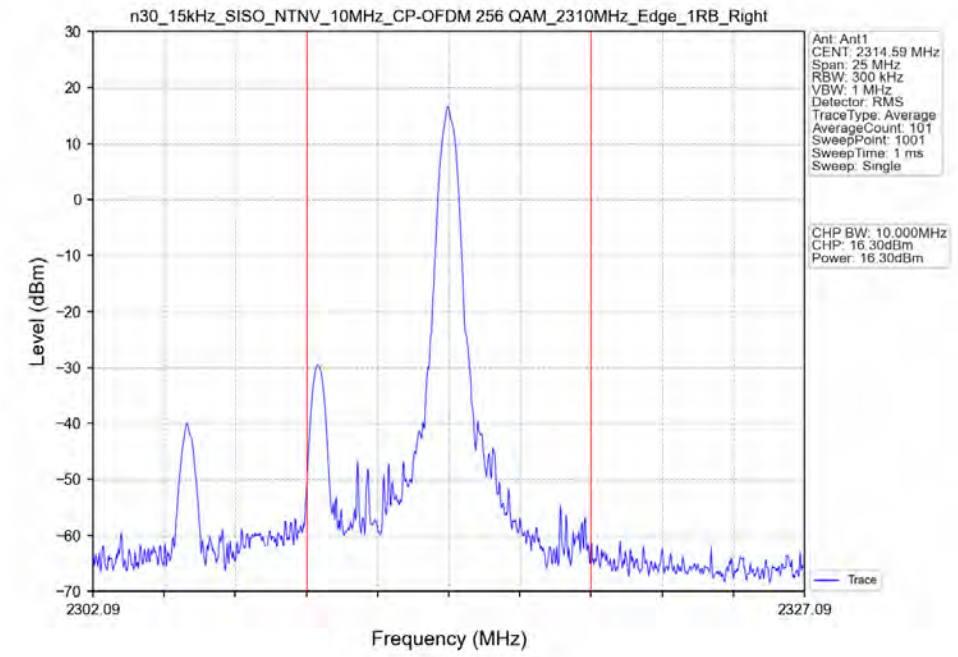

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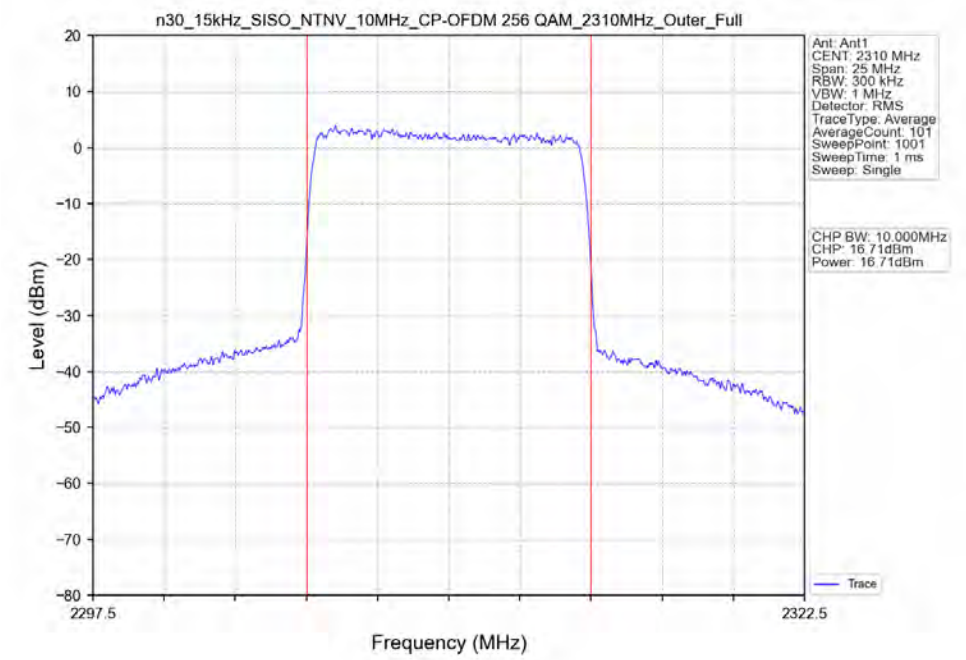
n30_15kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_2310MHz_Outer_Full



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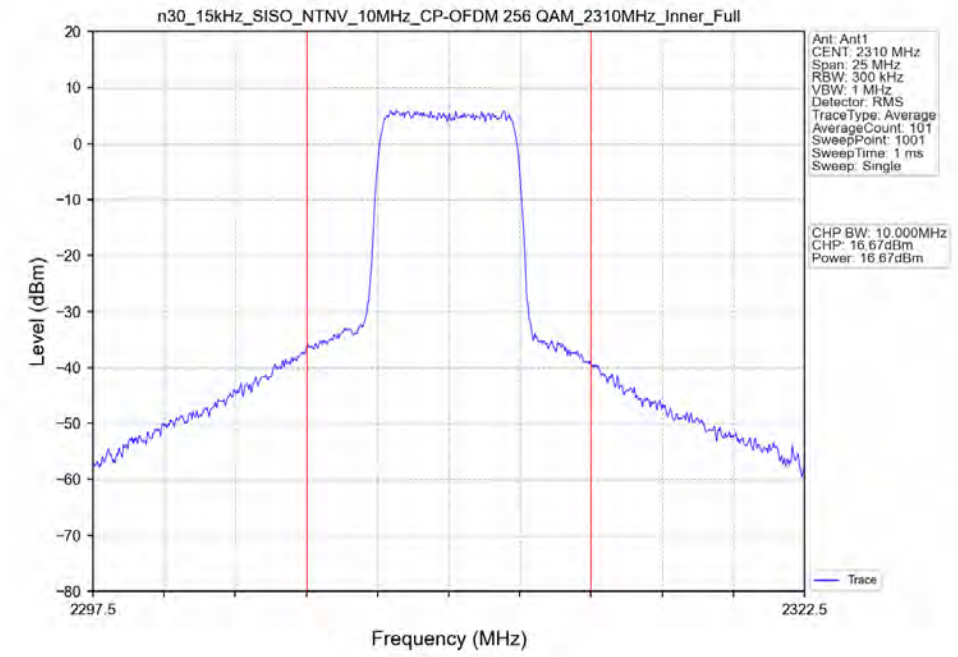

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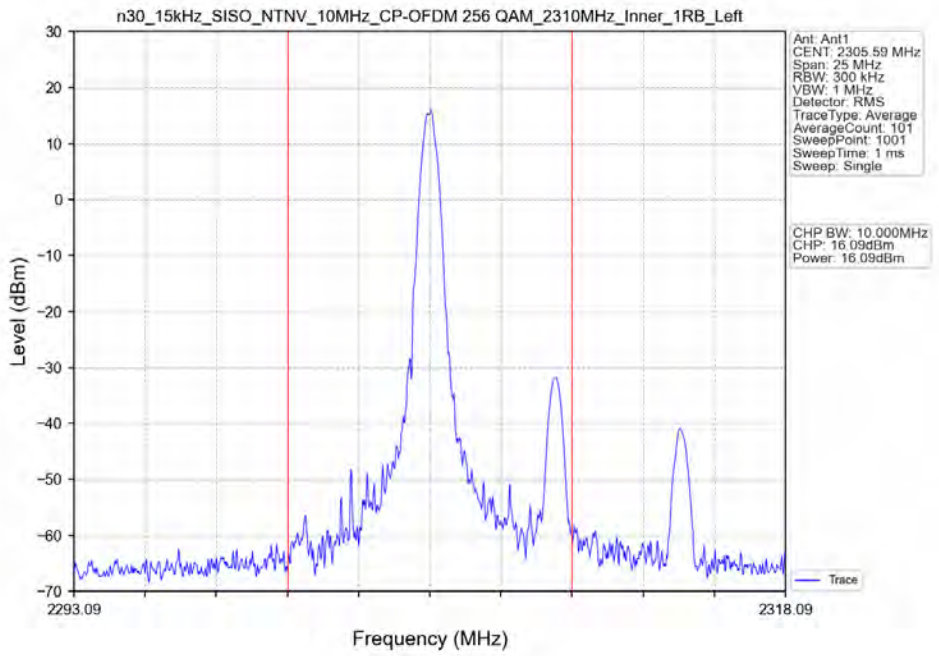

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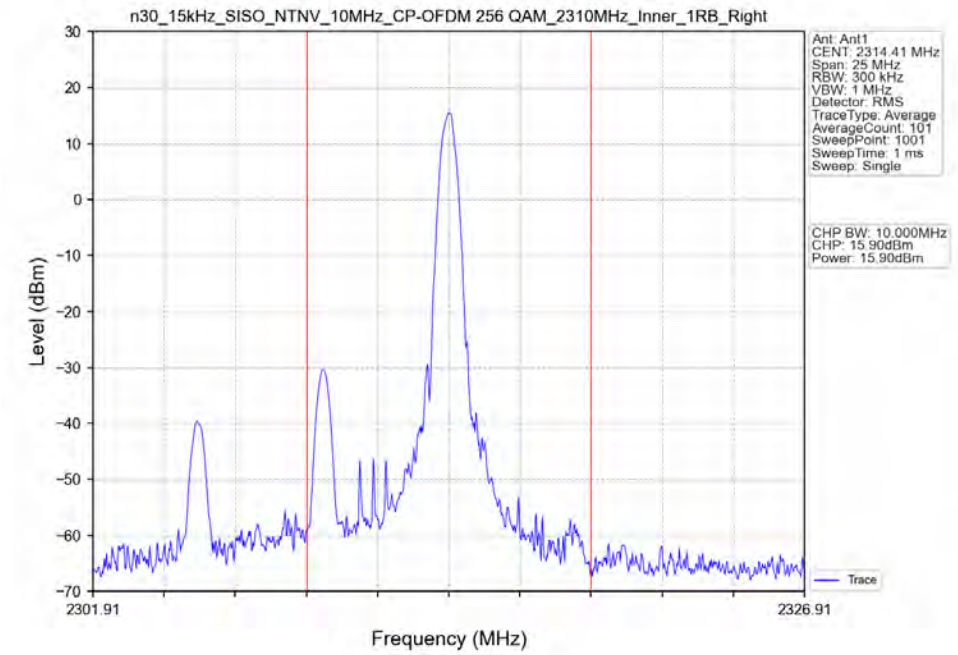

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2. Frequency Stability

2.1 15k_SISO_5MHz

2.1.1 Test Result

5G NR n30 SCS=15kHz SISO 5MHz								
Modulation	Frequency (MHz)	RB Allocation	Temp. (°C)	Volt.	Freq. Error (Hz)	Freq. vs. rated (ppm)		Verdict
						Result	Limit	
DFT-s-OFDM PI/2 BPSK	2310	Outer_Full	20	LV	-12.10	-0.0052	/	Pass
				HV	-12.20	-0.0053	/	Pass
			-30	NV	-7.90	-0.0034	/	Pass
			-20	NV	-10.80	-0.0047	/	Pass
			-10	NV	-6.30	-0.0027	/	Pass
			0	NV	-9.20	-0.0040	/	Pass
			10	NV	-3.80	-0.0016	/	Pass
			20	NV	-4.50	-0.0019	/	Pass
			30	NV	-5.20	-0.0023	/	Pass
			40	NV	-10.00	-0.0043	/	Pass
			50	NV	-7.60	-0.0033	/	Pass
DFT-s-OFDM QPSK	2310	Outer_Full	20	LV	-2.50	-0.0011	/	Pass
				HV	-12.60	-0.0055	/	Pass
			-30	NV	-13.10	-0.0057	/	Pass
			-20	NV	-6.60	-0.0029	/	Pass
			-10	NV	-5.50	-0.0024	/	Pass
			0	NV	-10.40	-0.0045	/	Pass
			10	NV	2.60	0.0011	/	Pass
			20	NV	-5.10	-0.0022	/	Pass
			30	NV	-4.20	-0.0018	/	Pass
			40	NV	4.10	0.0018	/	Pass
			50	NV	-9.10	-0.0039	/	Pass
DFT-s-OFDM 16 QAM	2310	Outer_Full	20	LV	-5.20	-0.0023	/	Pass
				HV	-8.60	-0.0037	/	Pass
			-30	NV	-7.70	-0.0033	/	Pass
			-20	NV	-0.90	-0.0004	/	Pass
			-10	NV	-4.90	-0.0021	/	Pass
			0	NV	-4.80	-0.0021	/	Pass
			10	NV	-3.50	-0.0015	/	Pass
			20	NV	-5.90	-0.0026	/	Pass
			30	NV	-7.10	-0.0031	/	Pass
			40	NV	-5.50	-0.0024	/	Pass
			50	NV	-5.70	-0.0025	/	Pass
DFT-s-OFDM 64 QAM	2310	Outer_Full	20	LV	-15.40	-0.0067	/	Pass
				HV	-2.60	-0.0011	/	Pass
			-30	NV	-4.60	-0.0020	/	Pass
			-20	NV	-9.20	-0.0040	/	Pass
			-10	NV	-8.10	-0.0035	/	Pass

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			0	NV	-4.90	-0.0021	/	Pass
			10	NV	-3.50	-0.0015	/	Pass
			20	NV	-4.00	-0.0017	/	Pass
			30	NV	-2.80	-0.0012	/	Pass
			40	NV	-7.70	-0.0033	/	Pass
			50	NV	-5.80	-0.0025	/	Pass
DFT-s-OFDM 256 QAM	2310	Outer_Full	20	LV	-3.70	-0.0016	/	Pass
				HV	-10.60	-0.0046	/	Pass
			-30	NV	-3.50	-0.0015	/	Pass
			-20	NV	-9.60	-0.0042	/	Pass
			-10	NV	-11.80	-0.0051	/	Pass
			0	NV	-12.60	-0.0055	/	Pass
			10	NV	-6.20	-0.0027	/	Pass
			20	NV	-7.40	-0.0032	/	Pass
			30	NV	-3.80	-0.0016	/	Pass
			40	NV	-3.90	-0.0017	/	Pass
			50	NV	-8.80	-0.0038	/	Pass
CP-OFDM QPSK	2310	Outer_Full	20	LV	-7.90	-0.0034	/	Pass
				HV	-7.60	-0.0033	/	Pass
			-30	NV	-10.90	-0.0047	/	Pass
			-20	NV	-8.90	-0.0039	/	Pass
			-10	NV	-10.70	-0.0046	/	Pass
			0	NV	-4.00	-0.0017	/	Pass
			10	NV	-7.70	-0.0033	/	Pass
			20	NV	-8.70	-0.0038	/	Pass
			30	NV	-9.00	-0.0039	/	Pass
			40	NV	-11.30	-0.0049	/	Pass
			50	NV	-9.20	-0.0040	/	Pass
CP-OFDM 16 QAM	2310	Outer_Full	20	LV	-18.60	-0.0081	/	Pass
				HV	-10.60	-0.0046	/	Pass
			-30	NV	-2.20	-0.0010	/	Pass
			-20	NV	-5.20	-0.0023	/	Pass
			-10	NV	-5.80	-0.0025	/	Pass
			0	NV	-7.50	-0.0032	/	Pass
			10	NV	-7.80	-0.0034	/	Pass
			20	NV	-6.00	-0.0026	/	Pass
			30	NV	-8.50	-0.0037	/	Pass
			40	NV	-9.70	-0.0042	/	Pass
			50	NV	-5.10	-0.0022	/	Pass
CP-OFDM 64 QAM	2310	Outer_Full	20	LV	-6.90	-0.0030	/	Pass
				HV	-7.50	-0.0032	/	Pass
			-30	NV	-9.40	-0.0041	/	Pass
			-20	NV	-9.10	-0.0039	/	Pass
			-10	NV	-10.50	-0.0045	/	Pass
			0	NV	-8.30	-0.0036	/	Pass
			10	NV	-4.90	-0.0021	/	Pass
			20	NV	-7.10	-0.0031	/	Pass
			30	NV	-8.70	-0.0038	/	Pass

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			40	NV	-12.00	-0.0052	/	Pass
			50	NV	-5.80	-0.0025	/	Pass
CP-OFDM 256 QAM	2310	Outer_Full	20	LV	-4.90	-0.0021	/	Pass
				HV	-7.30	-0.0032	/	Pass
			-30	NV	-3.10	-0.0013	/	Pass
			-20	NV	-6.70	-0.0029	/	Pass
			-10	NV	-3.90	-0.0017	/	Pass
			0	NV	-4.90	-0.0021	/	Pass
			10	NV	-12.40	-0.0054	/	Pass
			20	NV	-6.60	-0.0029	/	Pass
			30	NV	-6.70	-0.0029	/	Pass
			40	NV	-6.10	-0.0026	/	Pass
			50	NV	-8.20	-0.0035	/	Pass

2.2 15k_SISO_10MHz

2.2.1 Test Result

5G NR n30 SCS=15kHz 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	2310	Outer_Full	20	LV	-7.60	-0.0033	/	Pass
				HV	-7.70	-0.0033	/	Pass
			-30	NV	-4.40	-0.0019	/	Pass
			-20	NV	-2.90	-0.0013	/	Pass
			-10	NV	-2.10	-0.0009	/	Pass
			0	NV	-9.50	-0.0041	/	Pass
			10	NV	-9.90	-0.0043	/	Pass
			20	NV	-8.70	-0.0038	/	Pass
			30	NV	-3.90	-0.0017	/	Pass
			40	NV	-2.60	-0.0011	/	Pass
			50	NV	-8.30	-0.0036	/	Pass
DFT-s-OFDM QPSK	2310	Outer_Full	20	LV	-4.20	-0.0018	/	Pass
				HV	-4.00	-0.0017	/	Pass
			-30	NV	-4.60	-0.0020	/	Pass
			-20	NV	-5.90	-0.0026	/	Pass
			-10	NV	-7.20	-0.0031	/	Pass
			0	NV	-6.50	-0.0028	/	Pass
			10	NV	-8.30	-0.0036	/	Pass
			20	NV	-8.10	-0.0035	/	Pass
			30	NV	-3.90	-0.0017	/	Pass
			40	NV	-2.30	-0.0010	/	Pass
			50	NV	-4.30	-0.0019	/	Pass
DFT-s-OFDM 16 QAM	2310	Outer_Full	20	LV	-8.60	-0.0037	/	Pass
				HV	-3.50	-0.0015	/	Pass
			-30	NV	-8.50	-0.0037	/	Pass

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			-20	NV	-10.90	-0.0047	/	Pass
			-10	NV	-13.20	-0.0057	/	Pass
			0	NV	-5.50	-0.0024	/	Pass
			10	NV	-5.60	-0.0024	/	Pass
			20	NV	-7.90	-0.0034	/	Pass
			30	NV	-6.60	-0.0029	/	Pass
			40	NV	-8.30	-0.0036	/	Pass
			50	NV	-5.30	-0.0023	/	Pass
DFT-s-OFDM 64 QAM	2310	Outer_Full	20	LV	-5.80	-0.0025	/	Pass
				HV	-3.50	-0.0015	/	Pass
			-30	NV	-6.00	-0.0026	/	Pass
			-20	NV	-10.40	-0.0045	/	Pass
			-10	NV	-8.50	-0.0037	/	Pass
			0	NV	-9.20	-0.0040	/	Pass
			10	NV	-5.70	-0.0025	/	Pass
			20	NV	-8.50	-0.0037	/	Pass
			30	NV	-4.00	-0.0017	/	Pass
			40	NV	-10.50	-0.0045	/	Pass
			50	NV	-5.30	-0.0023	/	Pass
DFT-s-OFDM 256 QAM	2310	Outer_Full	20	LV	-6.00	-0.0026	/	Pass
				HV	-4.50	-0.0019	/	Pass
			-30	NV	-5.90	-0.0026	/	Pass
			-20	NV	-3.70	-0.0016	/	Pass
			-10	NV	-7.10	-0.0031	/	Pass
			0	NV	-3.10	-0.0013	/	Pass
			10	NV	-6.40	-0.0028	/	Pass
			20	NV	-4.20	-0.0018	/	Pass
			30	NV	-5.20	-0.0023	/	Pass
			40	NV	-9.30	-0.0040	/	Pass
			50	NV	-8.40	-0.0036	/	Pass
CP-OFDM QPSK	2310	Outer_Full	20	LV	-10.90	-0.0047	/	Pass
				HV	-7.90	-0.0034	/	Pass
			-30	NV	-13.50	-0.0058	/	Pass
			-20	NV	-5.00	-0.0022	/	Pass
			-10	NV	-3.50	-0.0015	/	Pass
			0	NV	-8.20	-0.0035	/	Pass
			10	NV	-8.90	-0.0039	/	Pass
			20	NV	-7.20	-0.0031	/	Pass
			30	NV	-4.20	-0.0018	/	Pass
			40	NV	-11.20	-0.0048	/	Pass
			50	NV	-4.20	-0.0018	/	Pass
CP-OFDM 16 QAM	2310	Outer_Full	20	LV	-7.90	-0.0034	/	Pass
				HV	-5.20	-0.0023	/	Pass
			-30	NV	-6.70	-0.0029	/	Pass
			-20	NV	-7.50	-0.0032	/	Pass
			-10	NV	-4.90	-0.0021	/	Pass
			0	NV	-7.90	-0.0034	/	Pass
			10	NV	-7.20	-0.0031	/	Pass

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			20	NV	-6.40	-0.0028	/	Pass
			30	NV	-13.60	-0.0059	/	Pass
			40	NV	-5.60	-0.0024	/	Pass
			50	NV	-8.20	-0.0035	/	Pass
CP-OFDM 64 QAM	2310	Outer_Full	20	LV	-4.10	-0.0018	/	Pass
				HV	-7.50	-0.0032	/	Pass
			-30	NV	-2.60	-0.0011	/	Pass
			-20	NV	-11.80	-0.0051	/	Pass
			-10	NV	-7.20	-0.0031	/	Pass
			0	NV	-2.20	-0.0010	/	Pass
			10	NV	-10.20	-0.0044	/	Pass
			20	NV	-4.50	-0.0019	/	Pass
			30	NV	-10.70	-0.0046	/	Pass
			40	NV	-6.10	-0.0026	/	Pass
			50	NV	-13.20	-0.0057	/	Pass
CP-OFDM 256 QAM	2310	Outer_Full	20	LV	-7.10	-0.0031	/	Pass
				HV	-9.90	-0.0043	/	Pass
			-30	NV	-7.90	-0.0034	/	Pass
			-20	NV	-6.10	-0.0026	/	Pass
			-10	NV	-3.20	-0.0014	/	Pass
			0	NV	-10.40	-0.0045	/	Pass
			10	NV	-8.30	-0.0036	/	Pass
			20	NV	-4.40	-0.0019	/	Pass
			30	NV	-5.40	-0.0023	/	Pass
			40	NV	-8.70	-0.0038	/	Pass
			50	NV	-6.10	-0.0026	/	Pass

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3. 99% & 26dB Bandwidth

3.1 15k_SISO_5MHz_NTNV

3.1.1 Test Result

5G NR n30 SCS=15kHz SISO 5MHz NTNV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2307.5	Outer_Full	4.57	5.17	/	Pass
	2310	Outer_Full	4.54	5.07	/	Pass
	2312.5	Outer_Full	4.54	5.09	/	Pass
DFT-s-OFDM QPSK	2307.5	Outer_Full	4.54	5.09	/	Pass
	2310	Outer_Full	4.52	5.05	/	Pass
	2312.5	Outer_Full	4.53	5.05	/	Pass
DFT-s-OFDM 16 QAM	2307.5	Outer_Full	4.57	5.16	/	Pass
	2310	Outer_Full	4.56	5.07	/	Pass
	2312.5	Outer_Full	4.56	5.07	/	Pass
DFT-s-OFDM 64 QAM	2307.5	Outer_Full	4.55	5.12	/	Pass
	2310	Outer_Full	4.53	5.02	/	Pass
	2312.5	Outer_Full	4.54	5.04	/	Pass
DFT-s-OFDM 256 QAM	2307.5	Outer_Full	4.55	5.13	/	Pass
	2310	Outer_Full	4.52	5.05	/	Pass
	2312.5	Outer_Full	4.53	5.08	/	Pass
CP-OFDM QPSK	2307.5	Outer_Full	4.56	5.15	/	Pass
	2310	Outer_Full	4.55	5.11	/	Pass
	2312.5	Outer_Full	4.53	5.06	/	Pass
CP-OFDM 16 QAM	2307.5	Outer_Full	4.60	5.14	/	Pass
	2310	Outer_Full	4.55	5.11	/	Pass
	2312.5	Outer_Full	4.57	5.11	/	Pass
CP-OFDM 64 QAM	2307.5	Outer_Full	4.55	5.11	/	Pass
	2310	Outer_Full	4.54	5.08	/	Pass
	2312.5	Outer_Full	4.53	5.10	/	Pass
CP-OFDM 256 QAM	2307.5	Outer_Full	4.54	5.07	/	Pass
	2310	Outer_Full	4.54	5.15	/	Pass
	2312.5	Outer_Full	4.54	5.11	/	Pass

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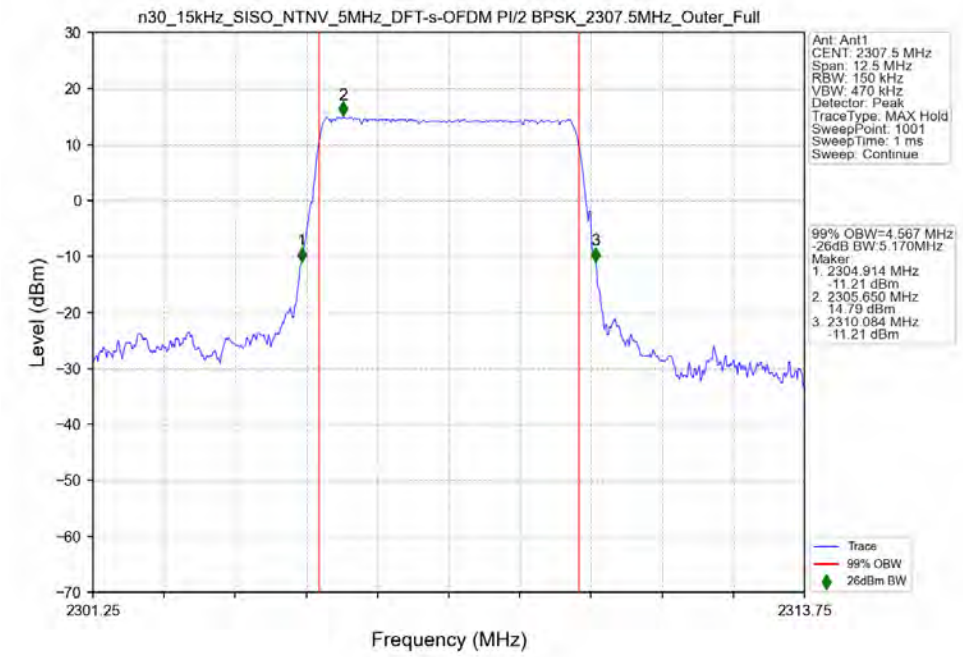
3.1.2 Test Graph

n30_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2307.5MHz_Outer_Full



n30_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2310MHz_Outer_Full

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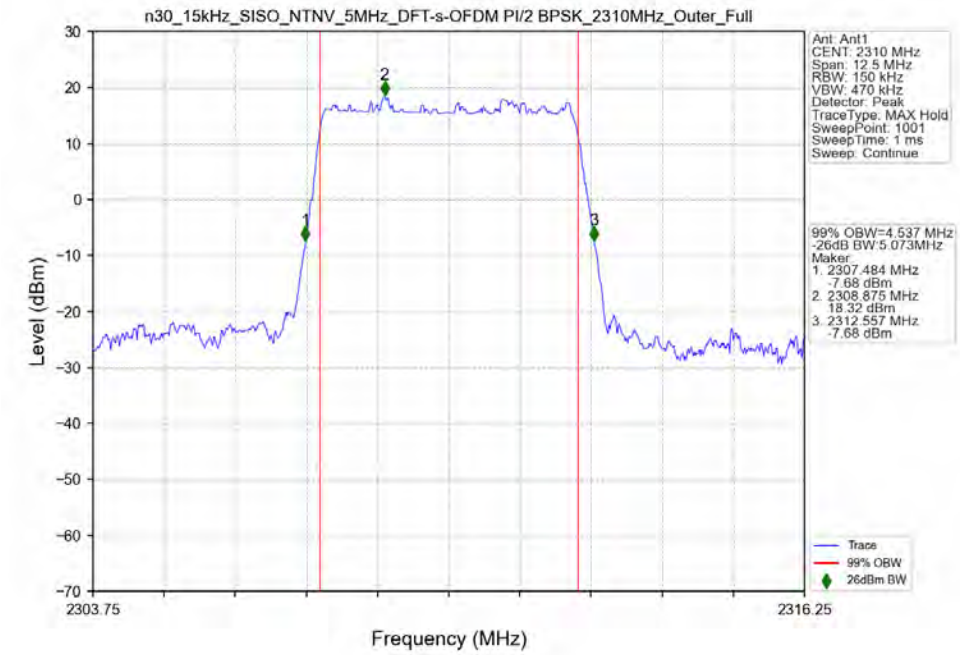

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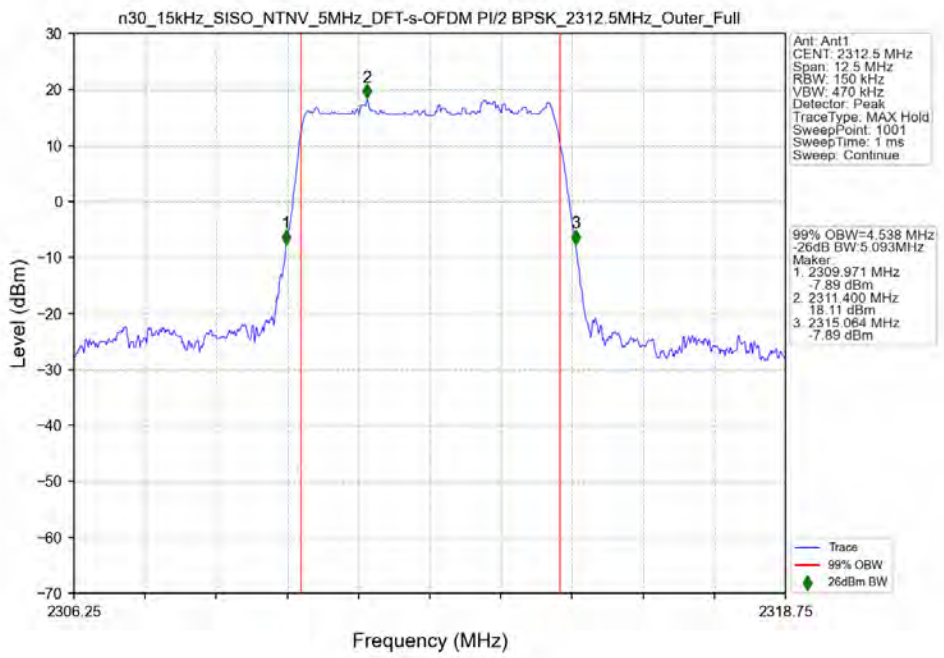
n30_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2312.5MHz_Outer_Full



n30_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2307.5MHz_Outer_Full

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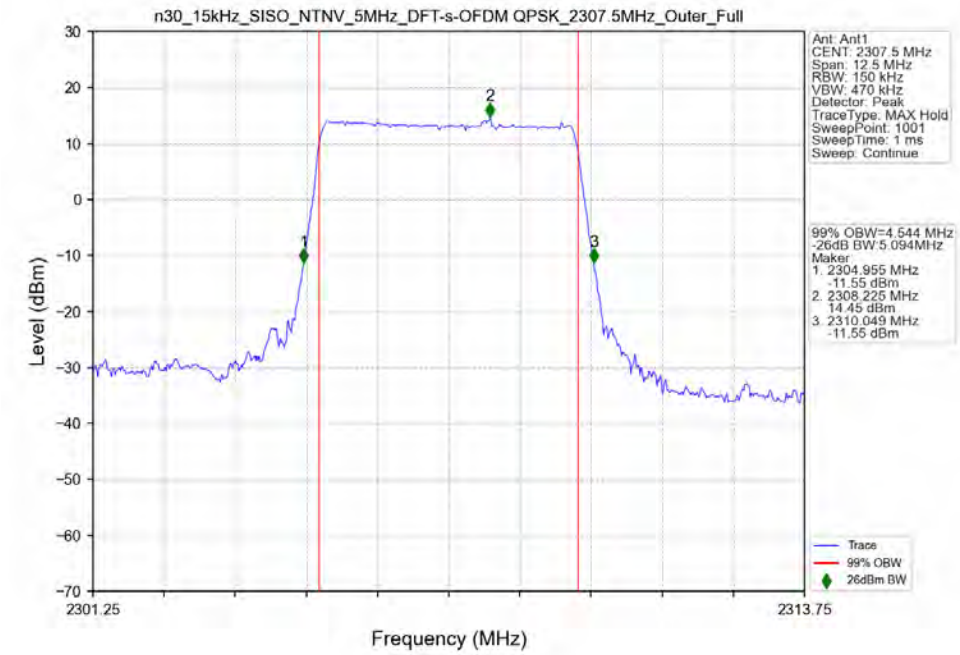

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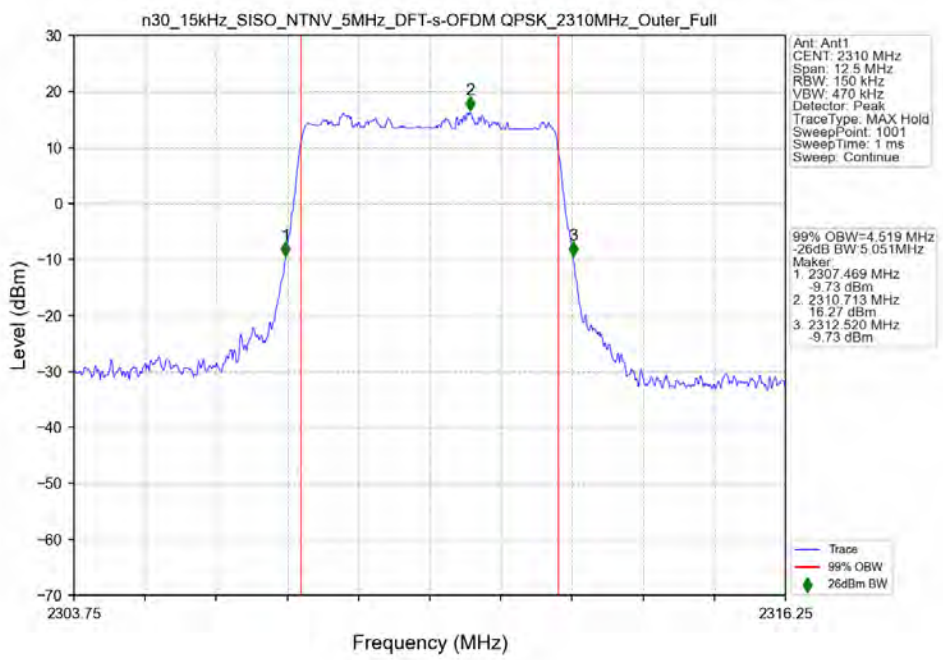
n30_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2310MHz_Outer_Full



n30_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2312.5MHz_Outer_Full

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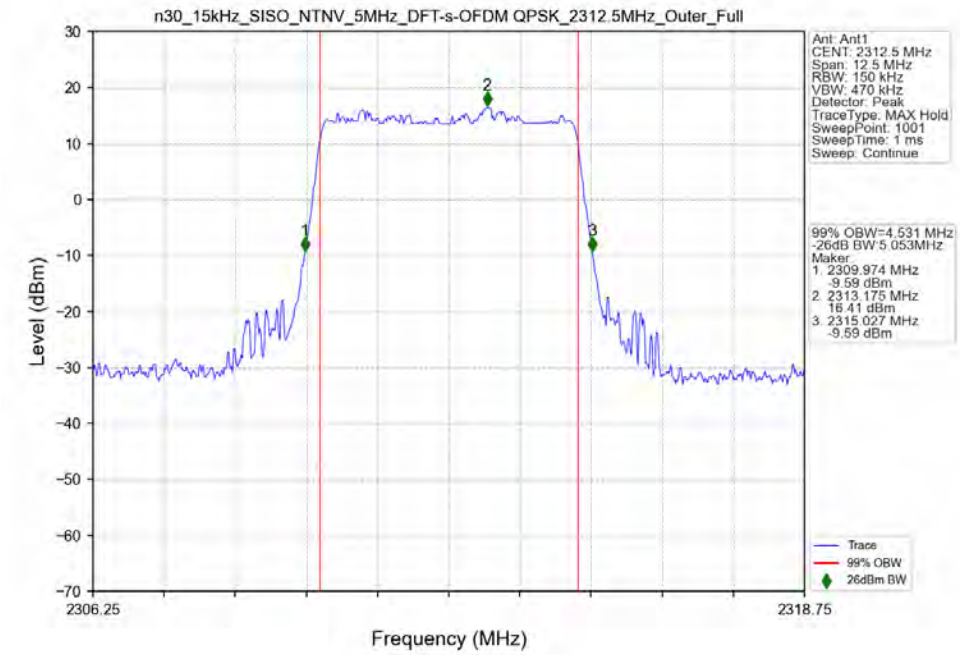

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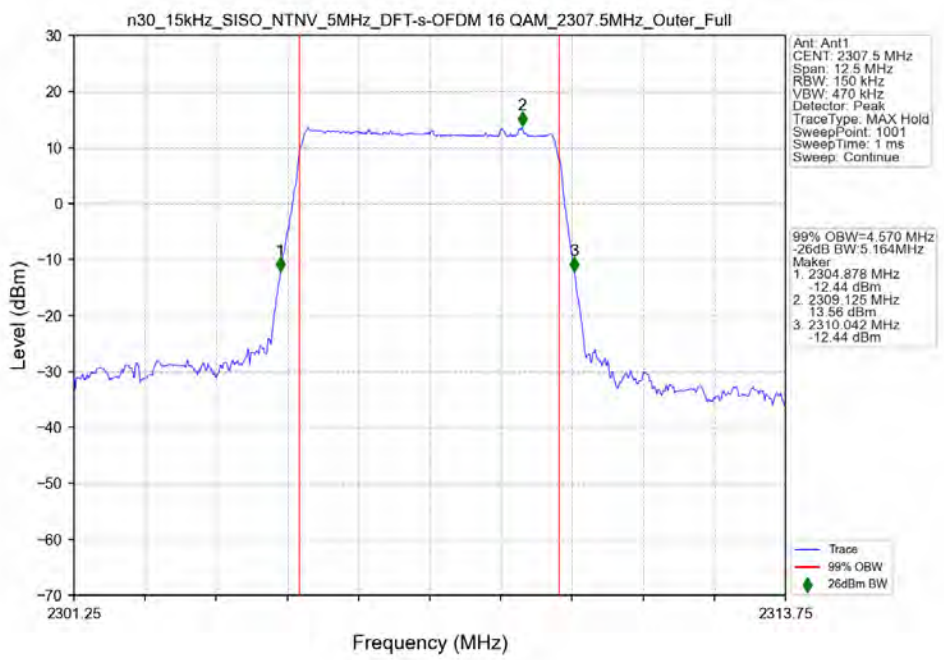
n30_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 16 QAM_2307.5MHz_Outer_Full



n30_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 16 QAM_2310MHz_Outer_Full

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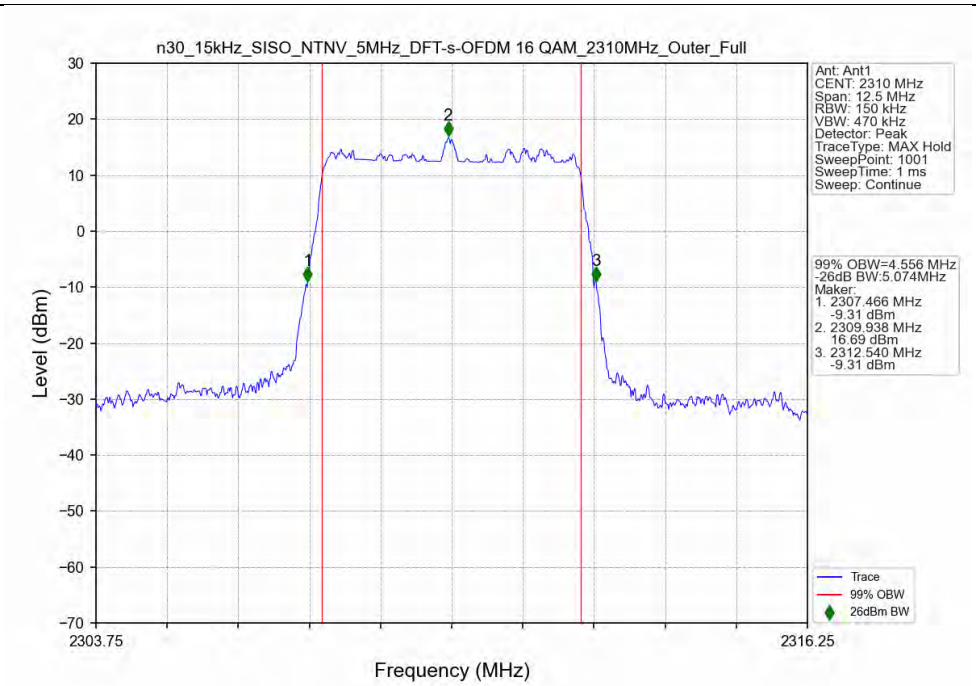

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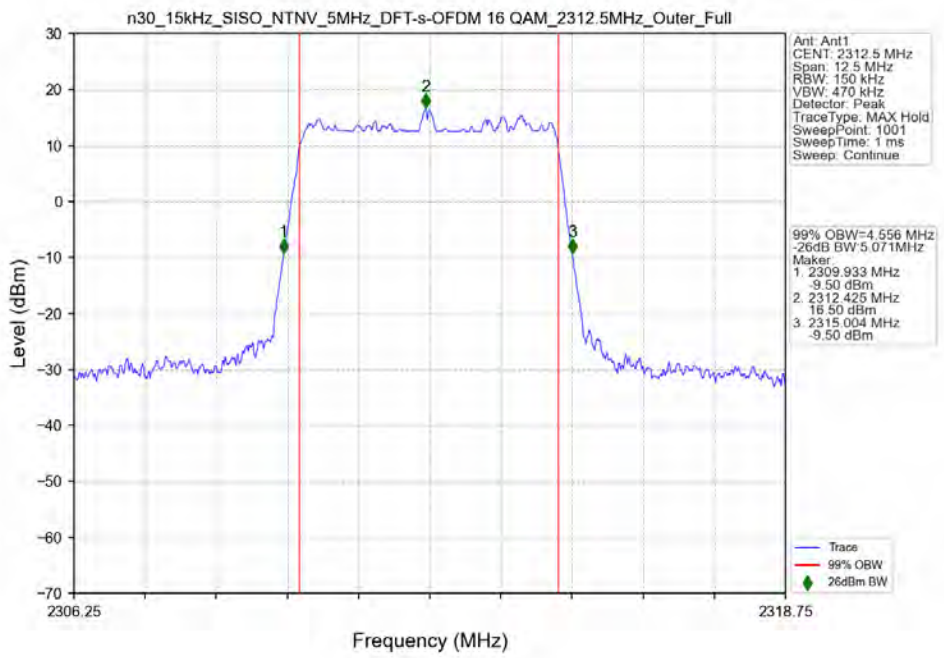

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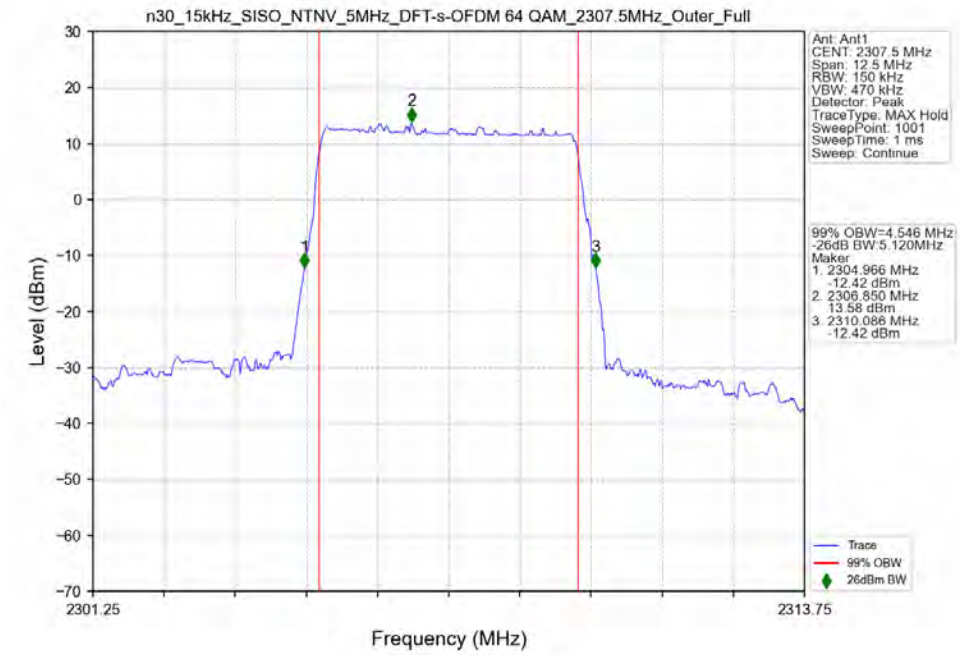

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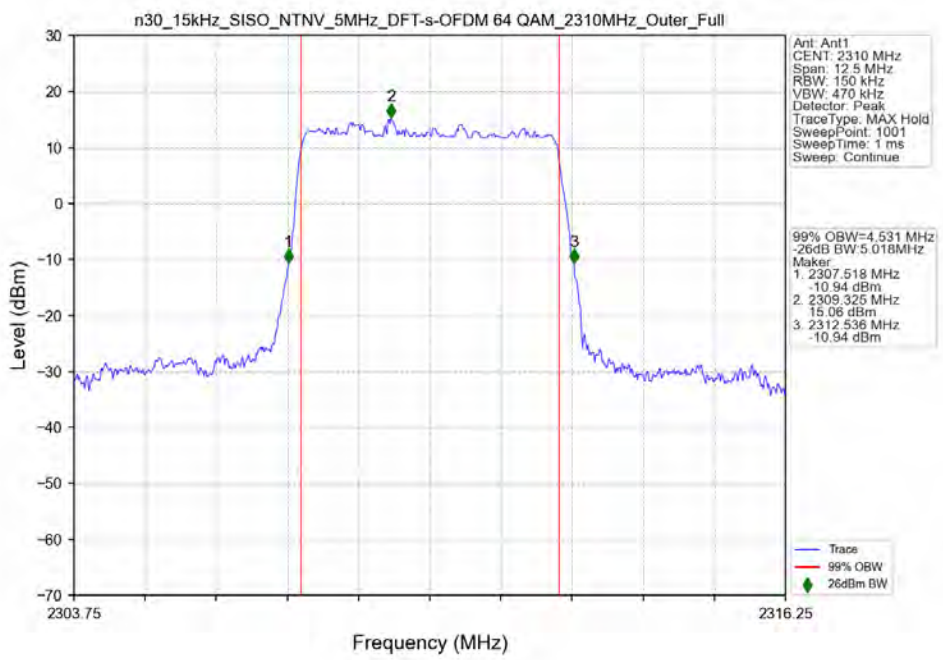

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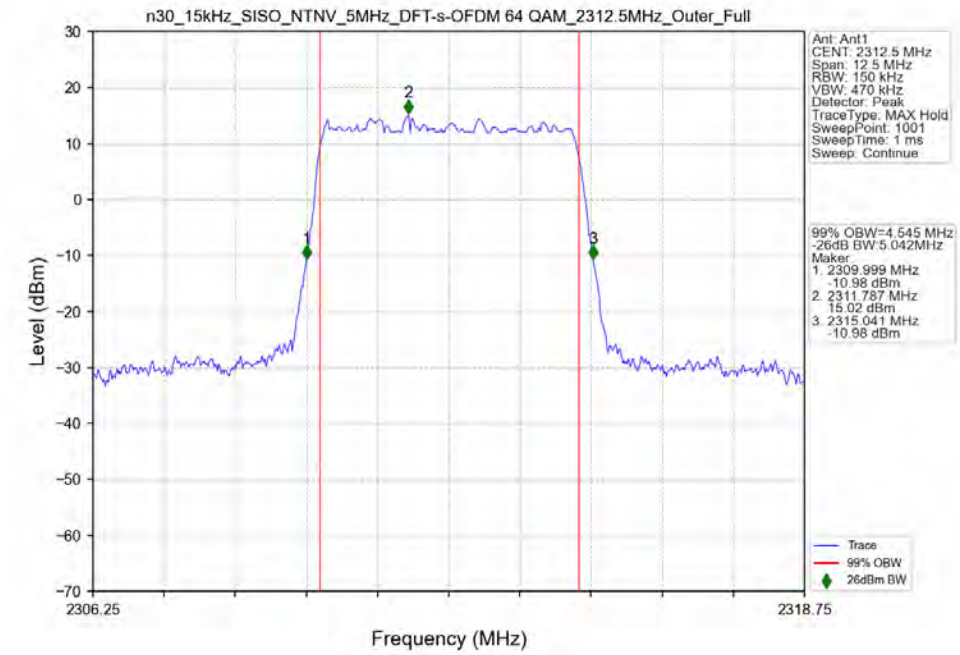

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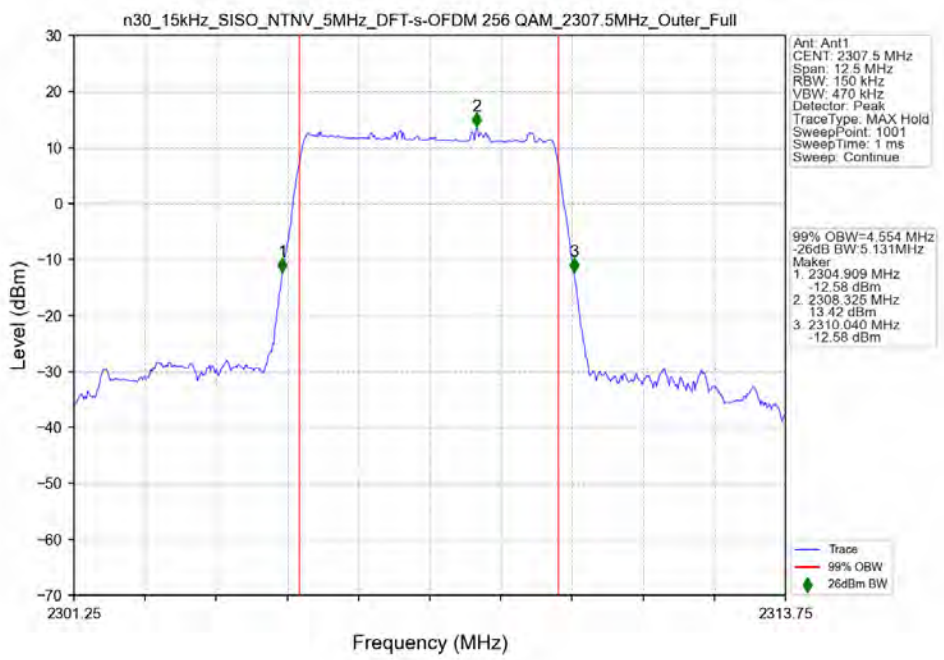

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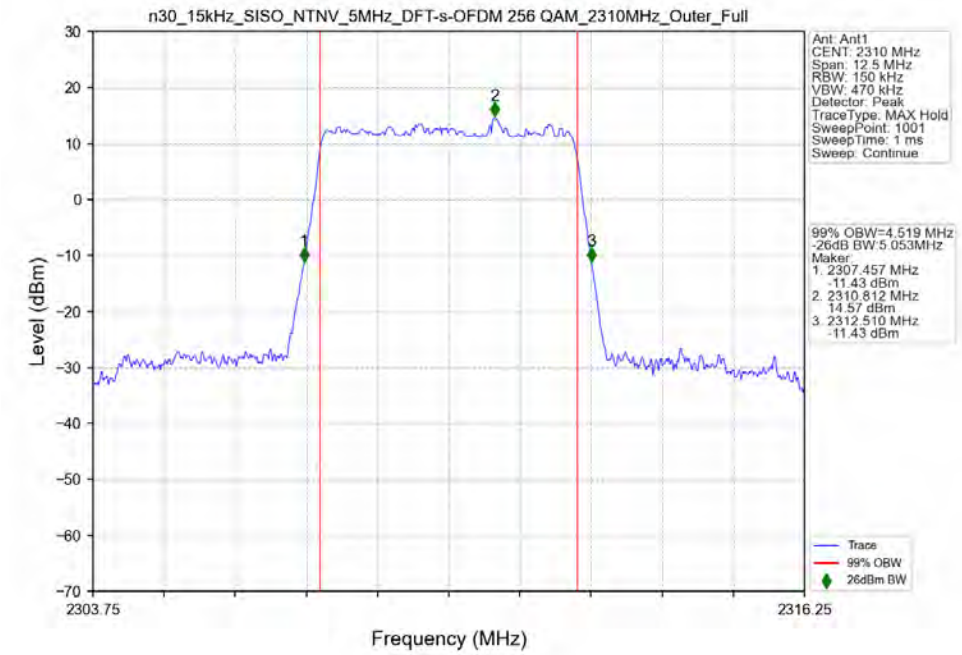

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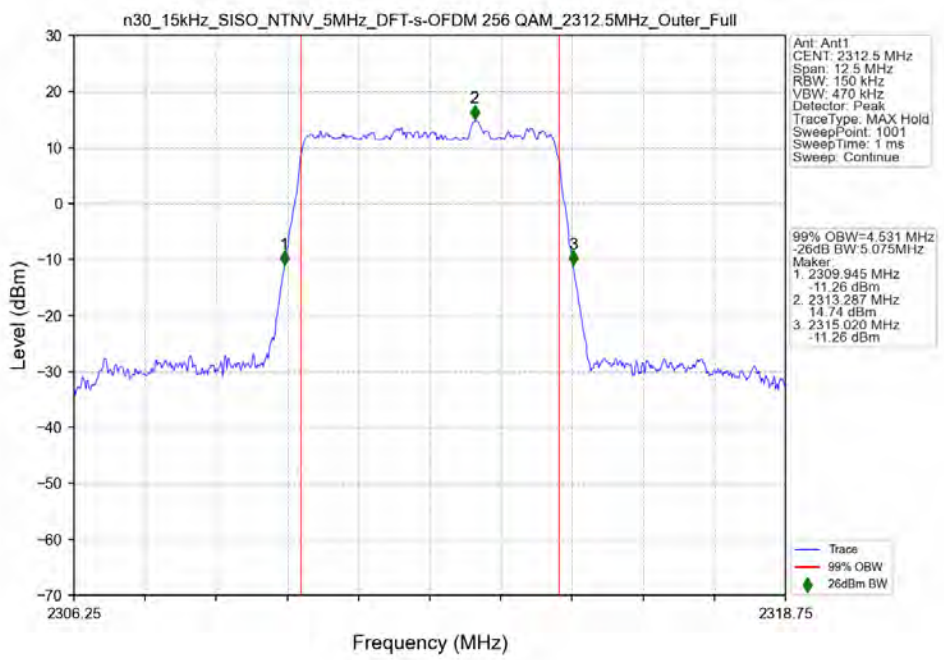

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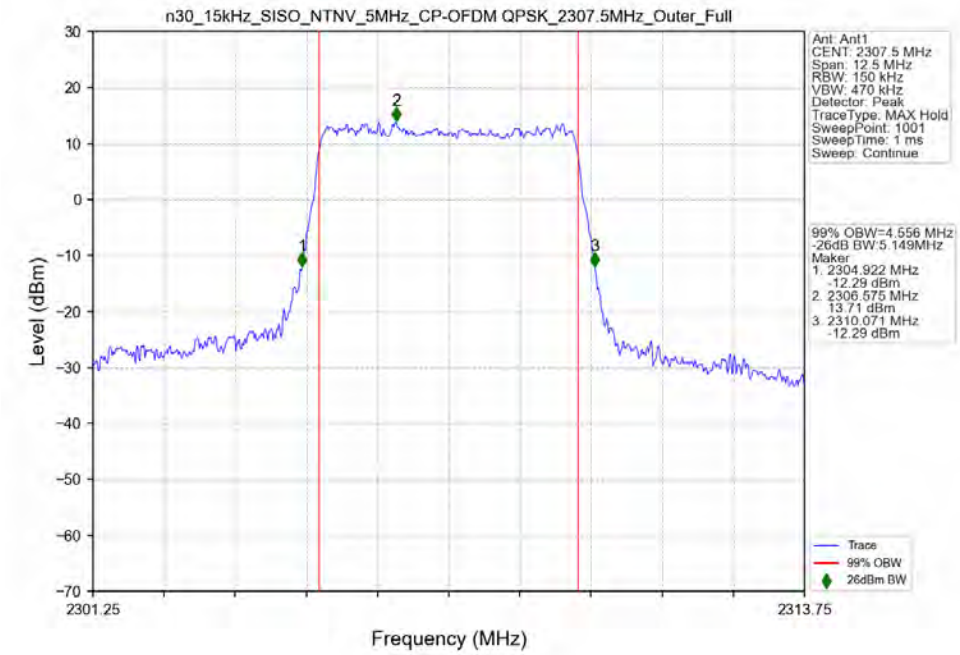

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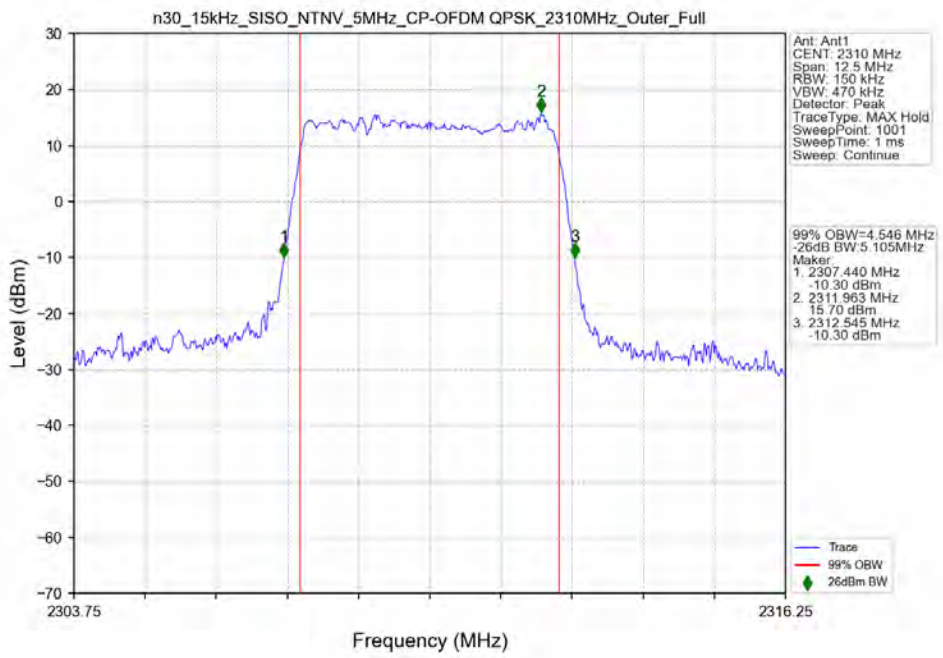

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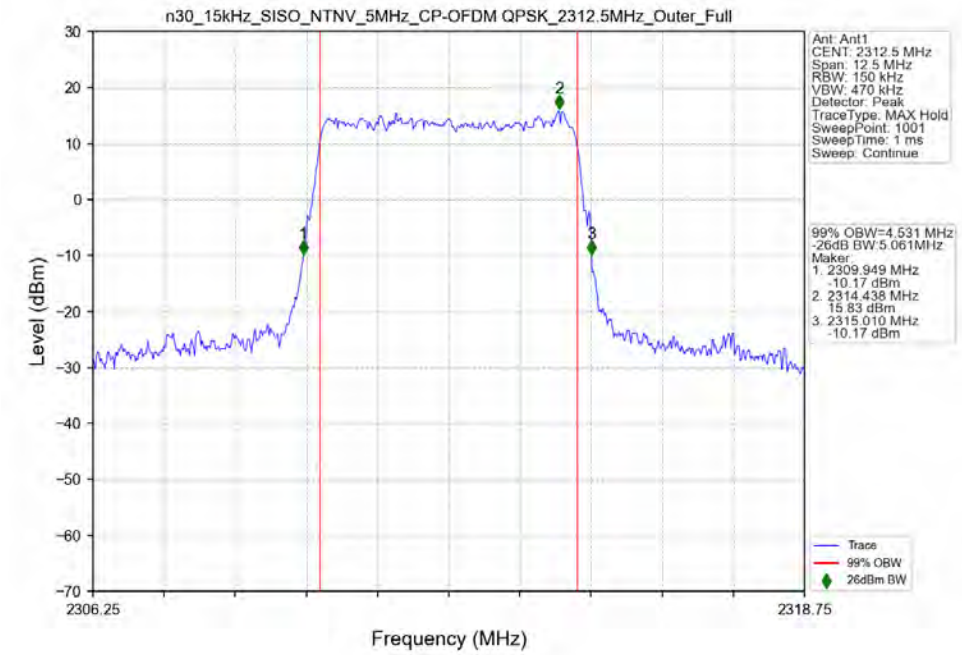

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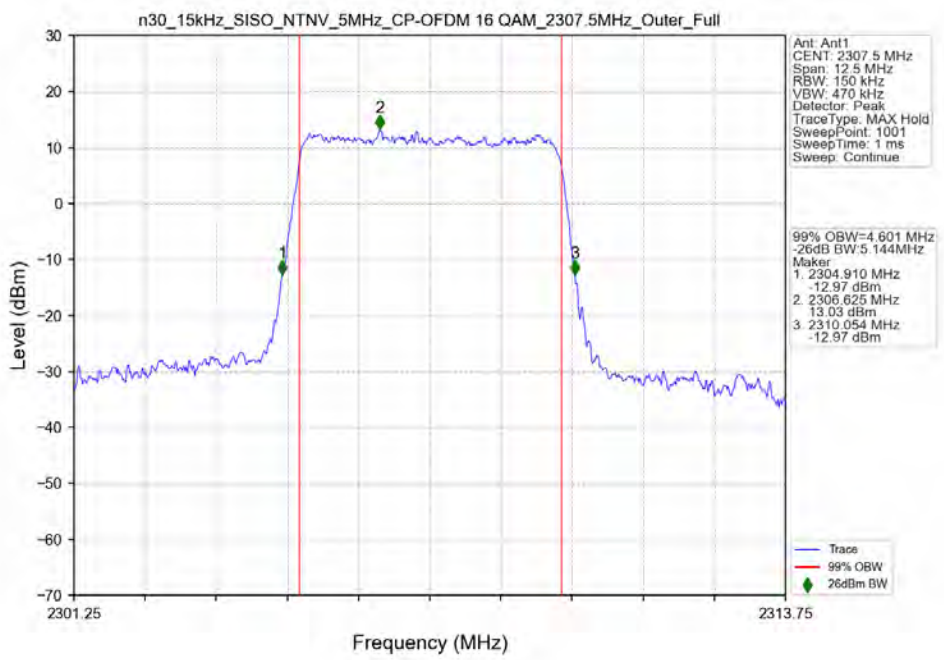

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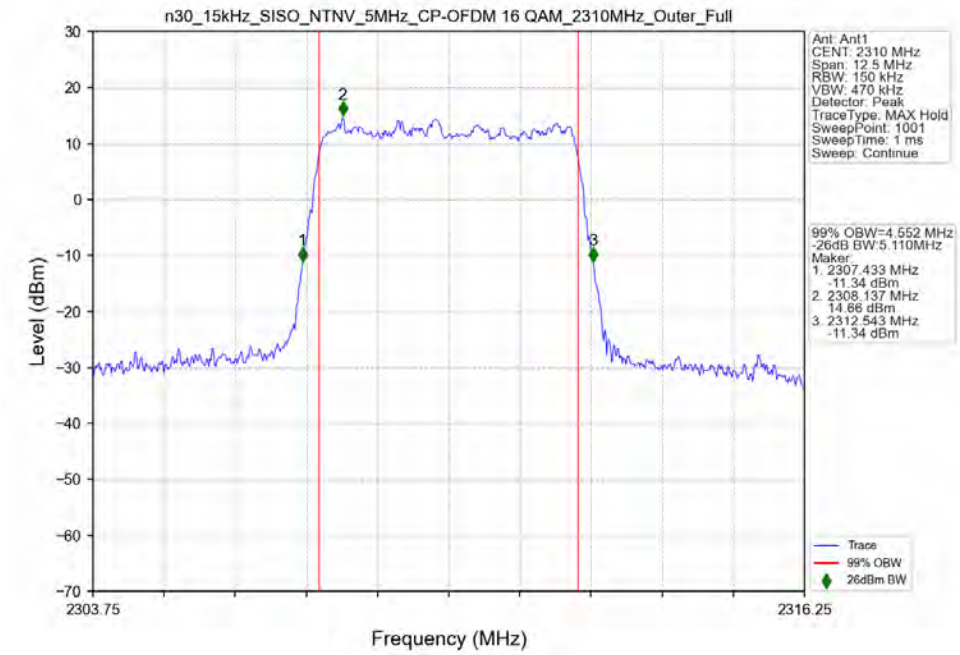

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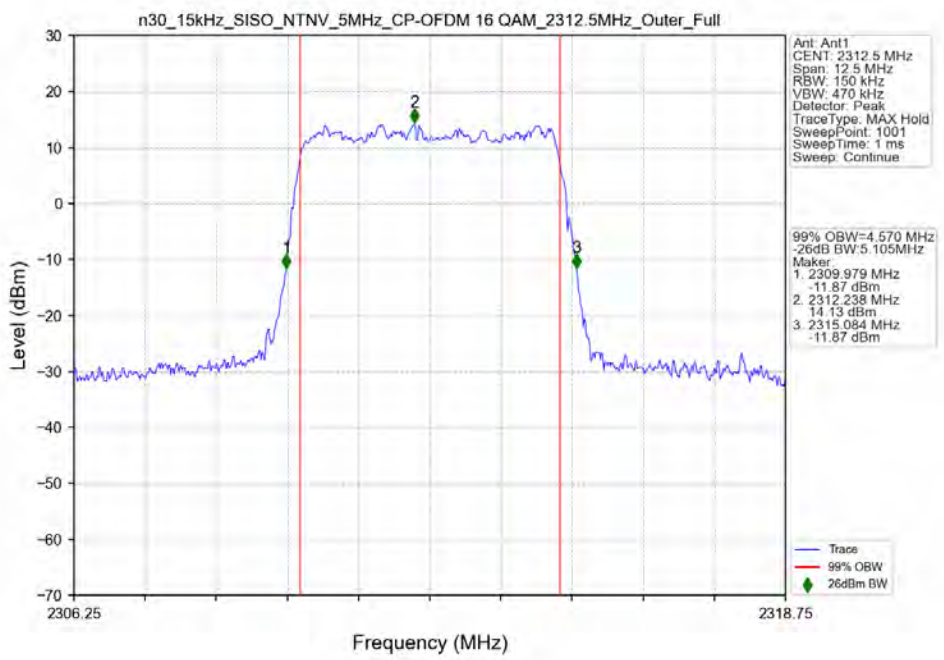
n30_15kHz_SISO_NTNV_5MHz_CP-OFDM 16 QAM_2312.5MHz_Outer_Full



n30_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM_2307.5MHz_Outer_Full

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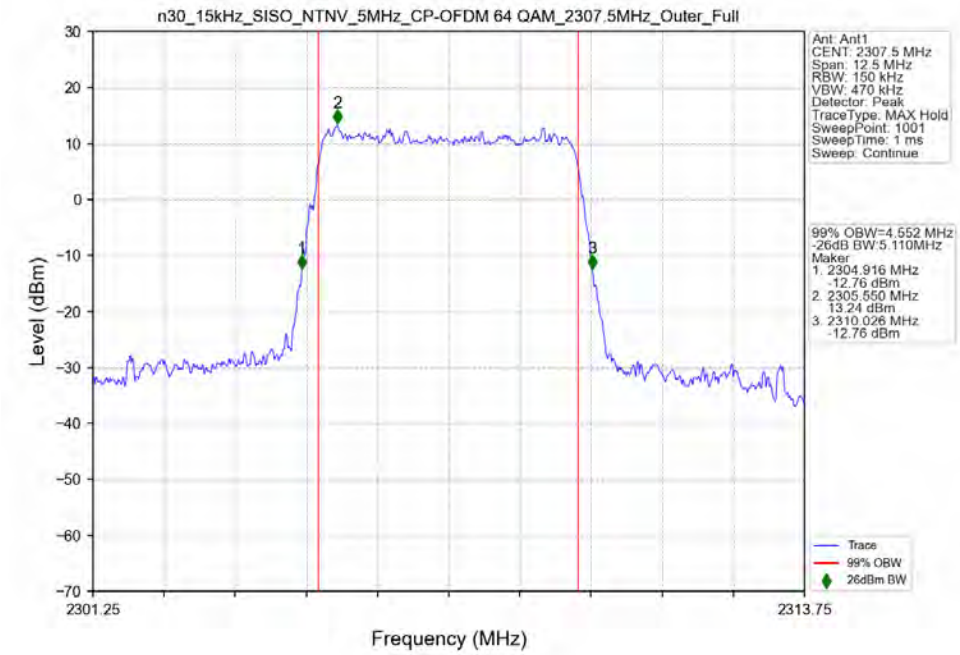

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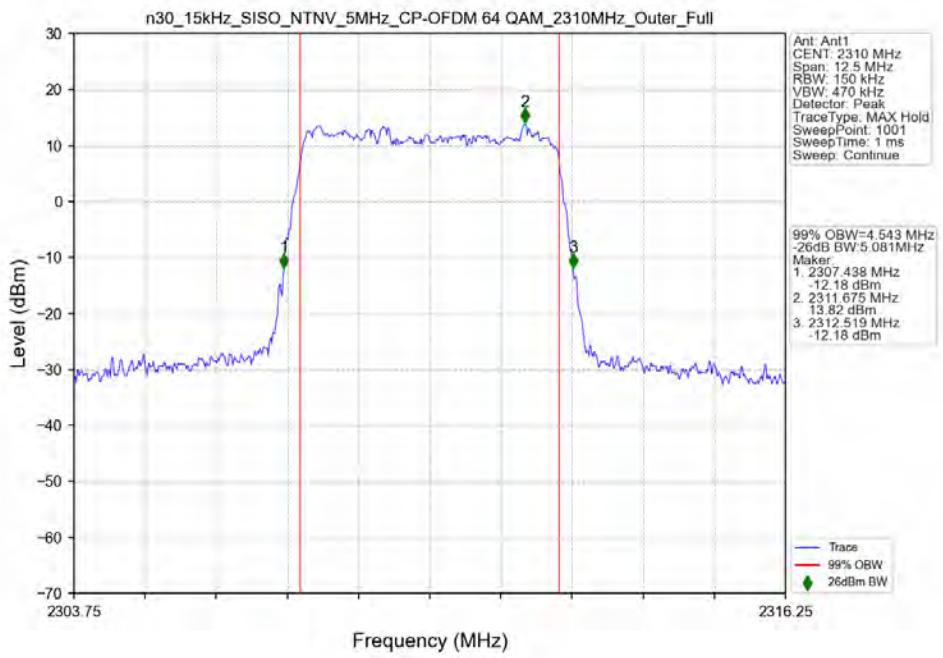

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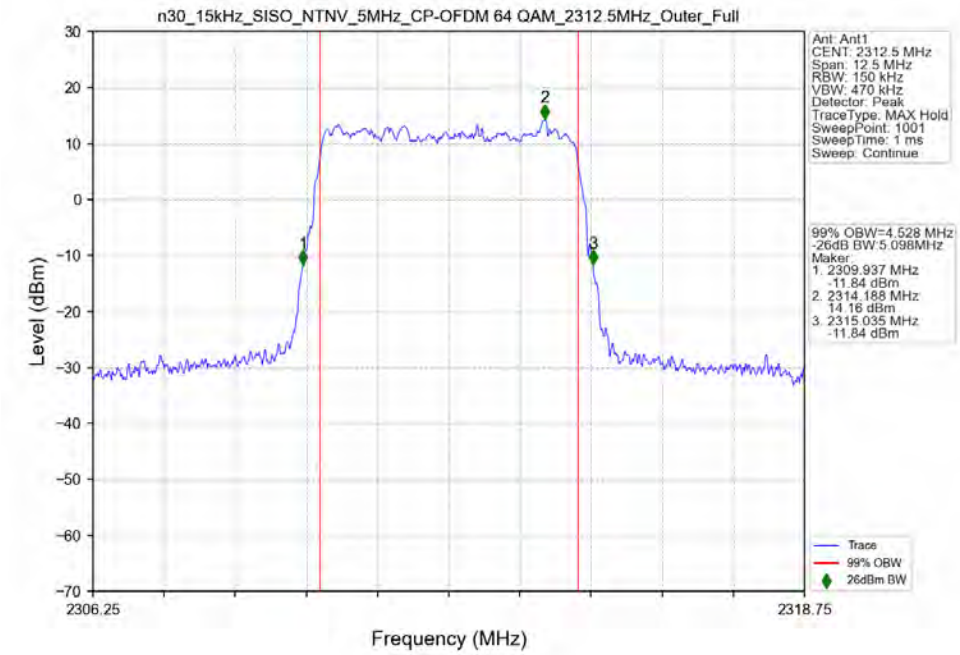

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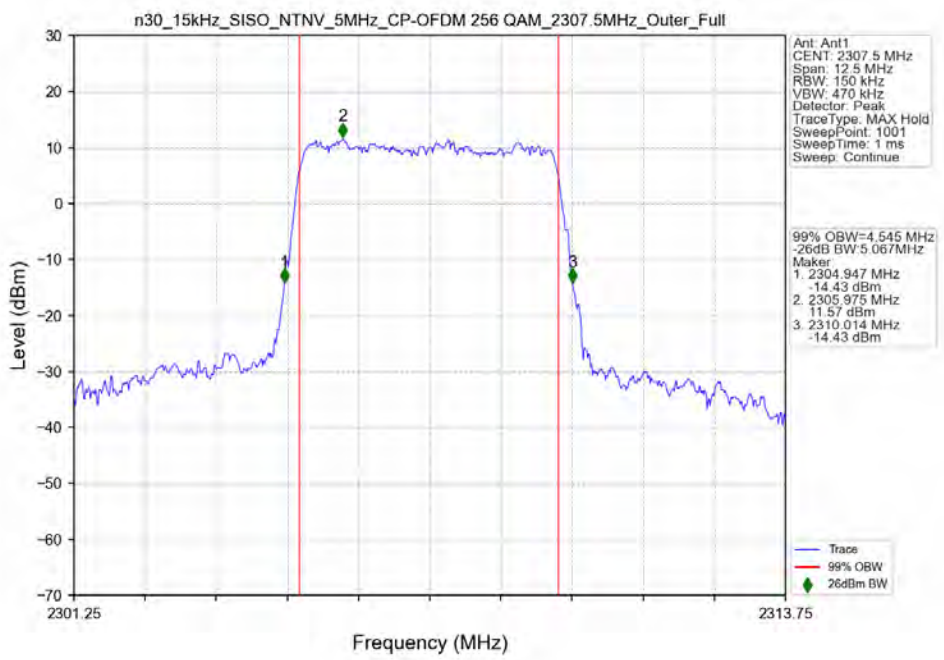

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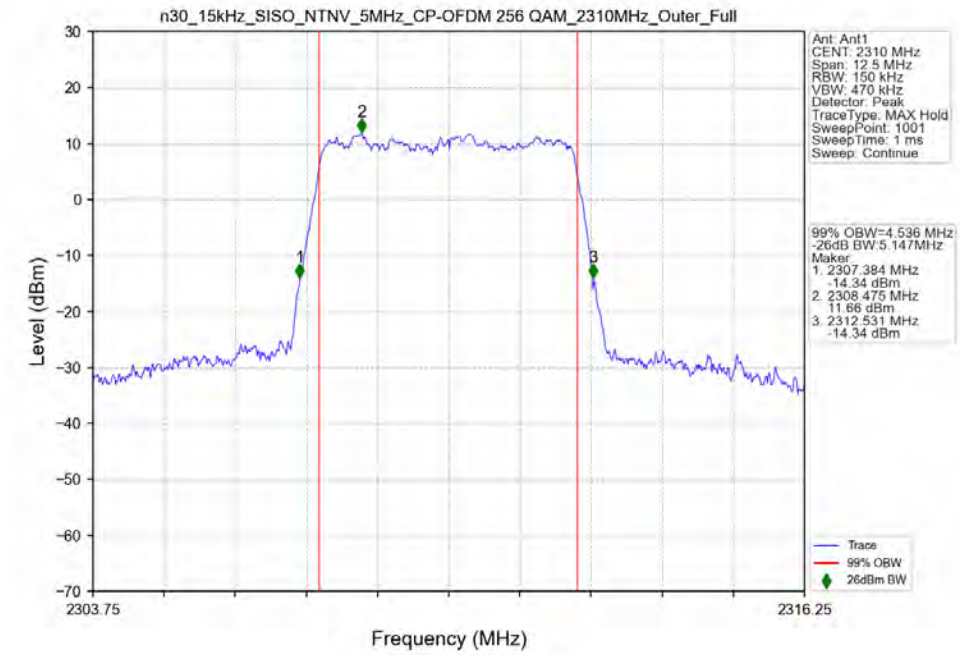

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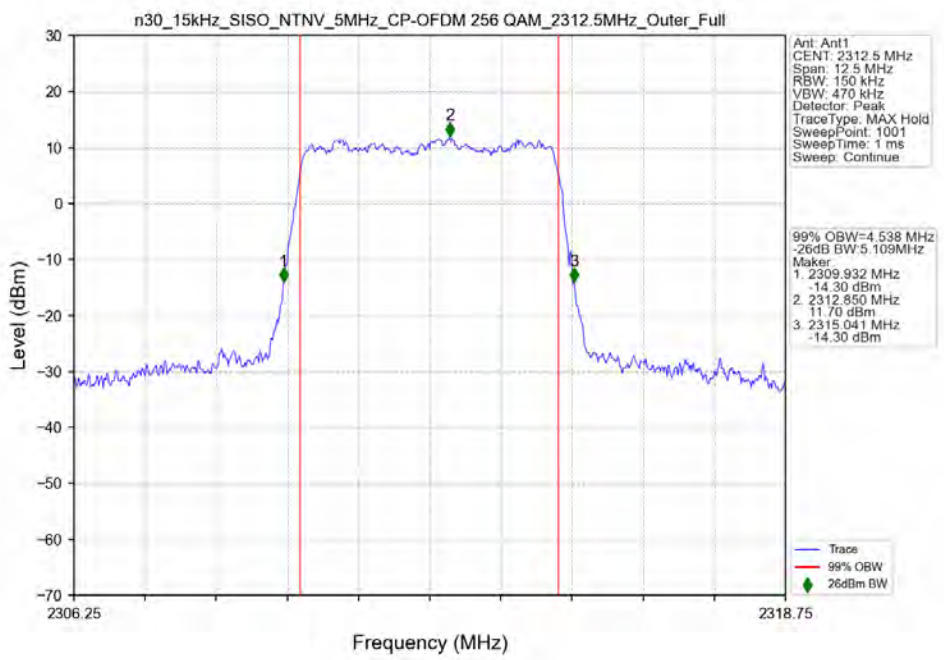

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3.2 15k_SISO_10MHz_NTNV

3.2.1 Test Result

5G NR n30 SCS=15kHz SISO 10MHz NTNV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2310	Outer_Full	9.14	10.03	/	Pass
	2310	Outer_Full	9.04	9.81	/	Pass
	2310	Outer_Full	9.05	9.82	/	Pass
DFT-s-OFDM QPSK	2310	Outer_Full	9.12	10.00	/	Pass
	2310	Outer_Full	9.08	9.89	/	Pass
	2310	Outer_Full	9.09	9.89	/	Pass
DFT-s-OFDM 16 QAM	2310	Outer_Full	9.13	9.95	/	Pass
	2310	Outer_Full	9.08	9.84	/	Pass
	2310	Outer_Full	9.06	9.86	/	Pass
DFT-s-OFDM 64 QAM	2310	Outer_Full	9.11	9.91	/	Pass
	2310	Outer_Full	9.06	9.85	/	Pass
	2310	Outer_Full	9.06	9.83	/	Pass
DFT-s-OFDM 256 QAM	2310	Outer_Full	9.11	9.87	/	Pass
	2310	Outer_Full	9.07	9.86	/	Pass
	2310	Outer_Full	9.08	9.87	/	Pass
CP-OFDM QPSK	2310	Outer_Full	9.47	10.42	/	Pass
	2310	Outer_Full	9.39	10.31	/	Pass
	2310	Outer_Full	9.39	10.35	/	Pass
CP-OFDM 16 QAM	2310	Outer_Full	9.45	10.30	/	Pass
	2310	Outer_Full	9.40	10.25	/	Pass
	2310	Outer_Full	9.40	10.30	/	Pass
CP-OFDM 64 QAM	2310	Outer_Full	9.41	10.27	/	Pass
	2310	Outer_Full	9.37	10.22	/	Pass
	2310	Outer_Full	9.38	10.18	/	Pass
CP-OFDM 256 QAM	2310	Outer_Full	9.45	10.30	/	Pass
	2310	Outer_Full	9.43	10.27	/	Pass
	2310	Outer_Full	9.44	10.29	/	Pass

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3.2.2 Test Graph

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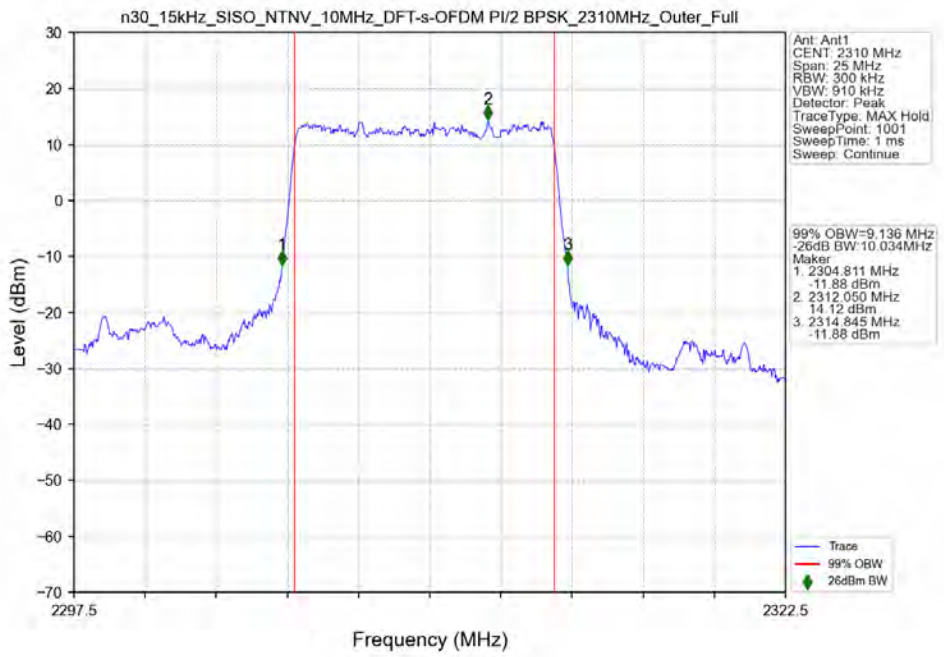

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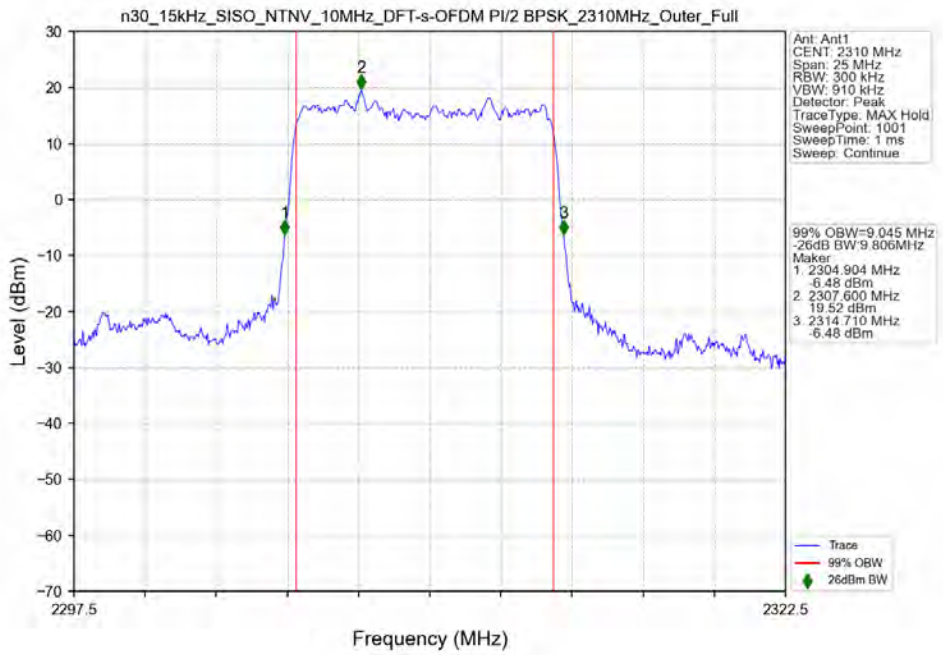

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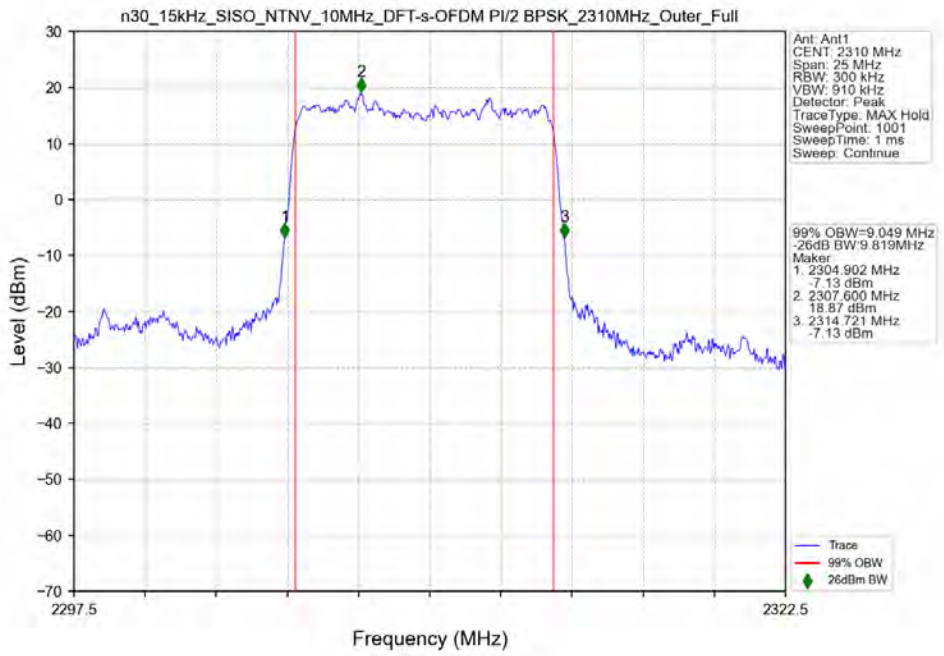

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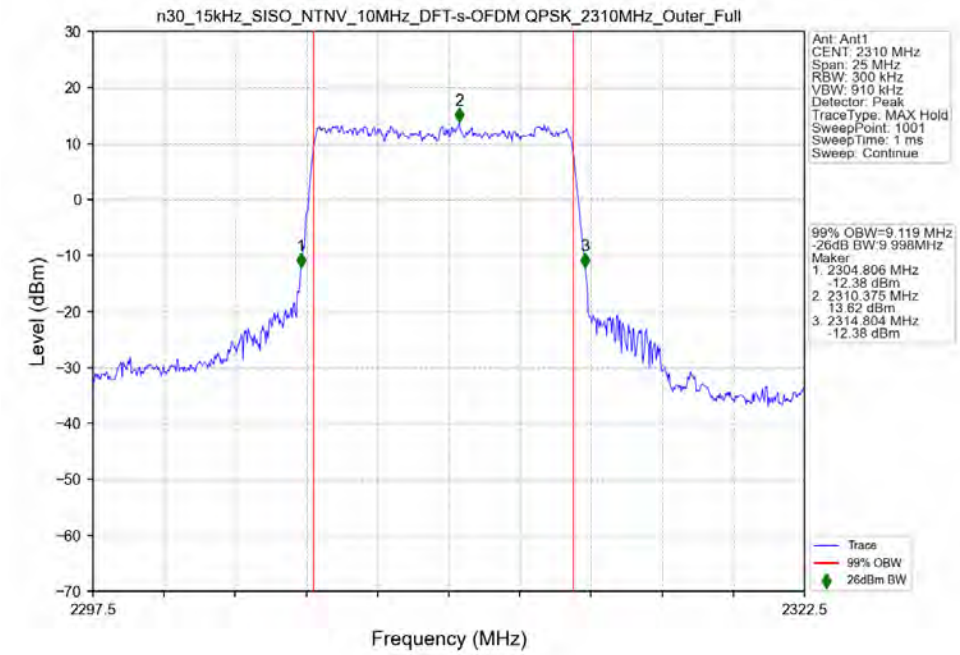

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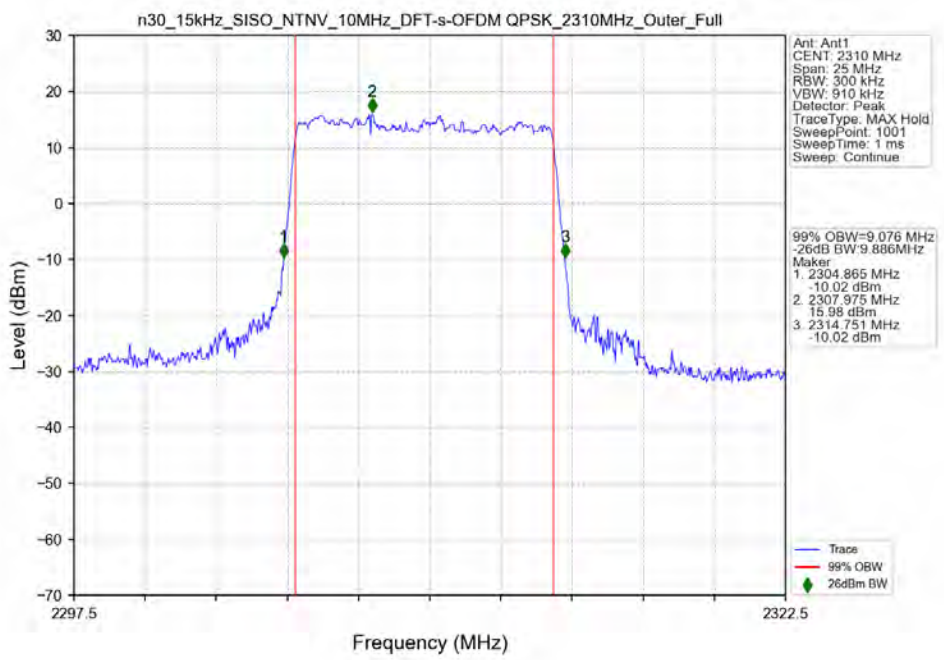
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2310MHz_Outer_Full



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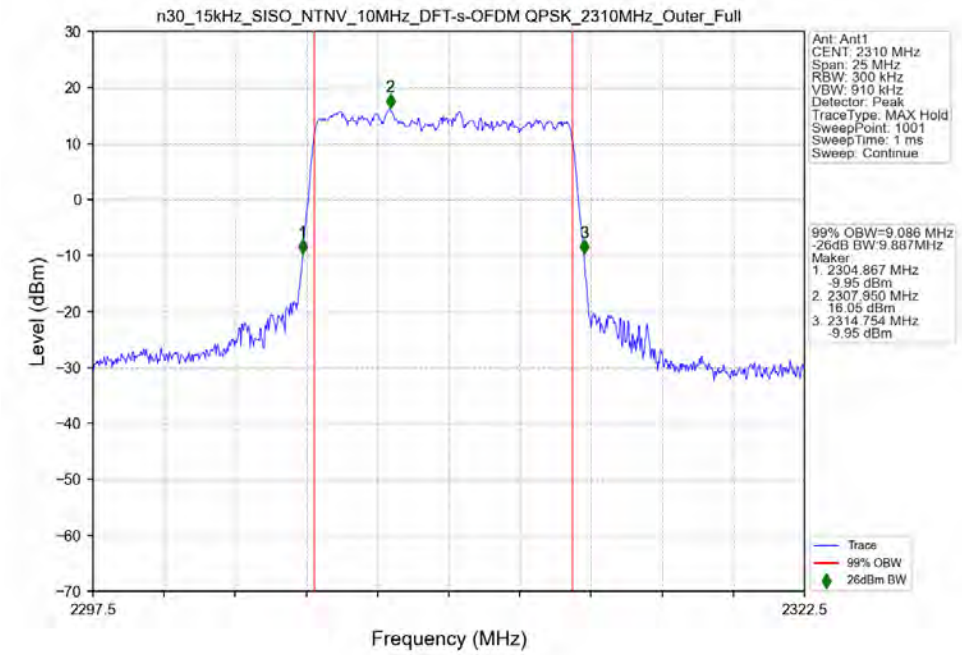

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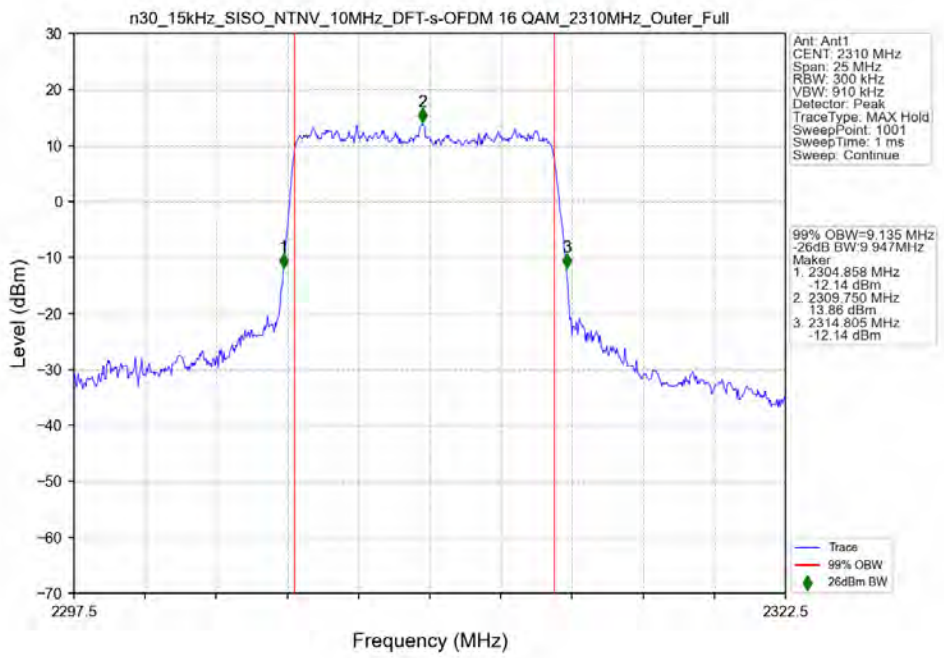
n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_2310MHz_Outer_Full



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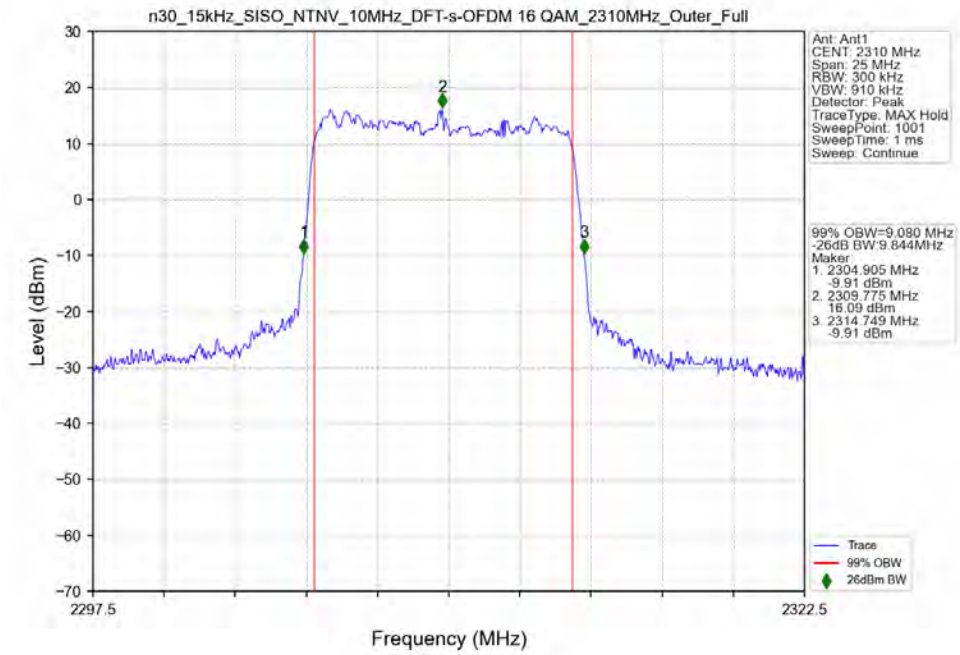

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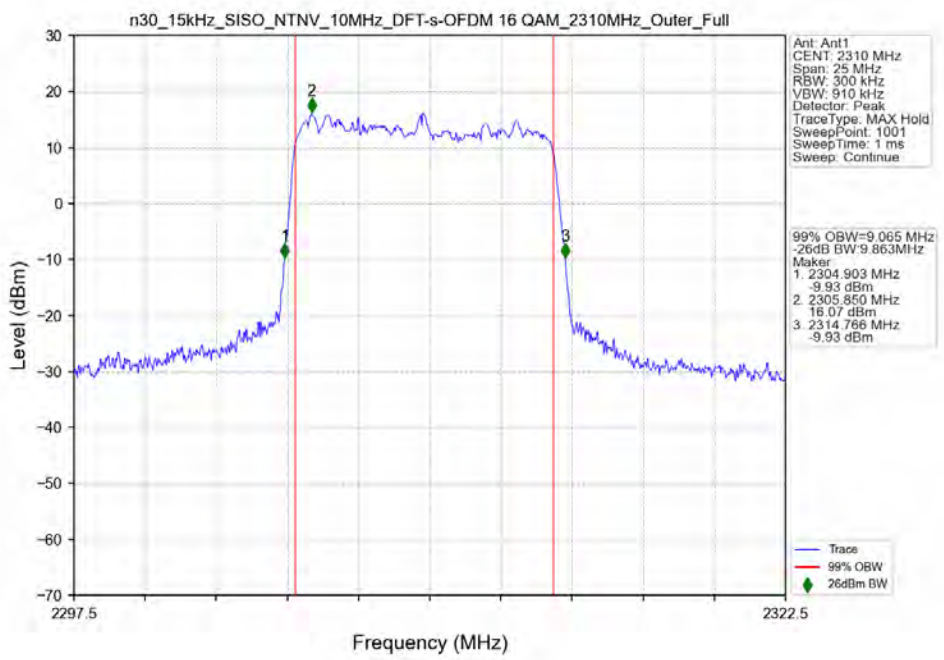

n30_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_2310MHz_Outer_Full

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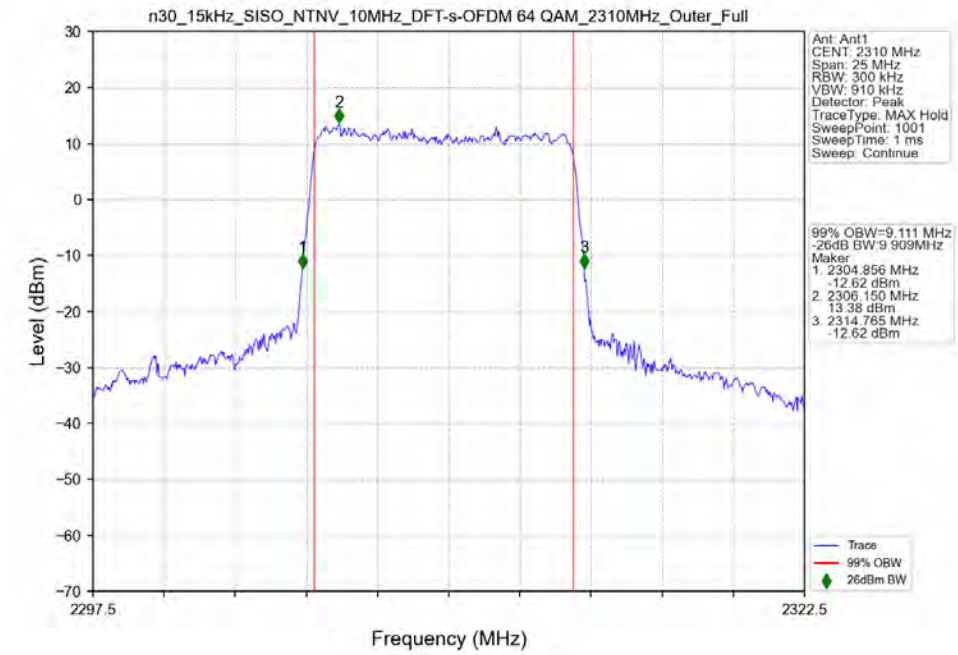

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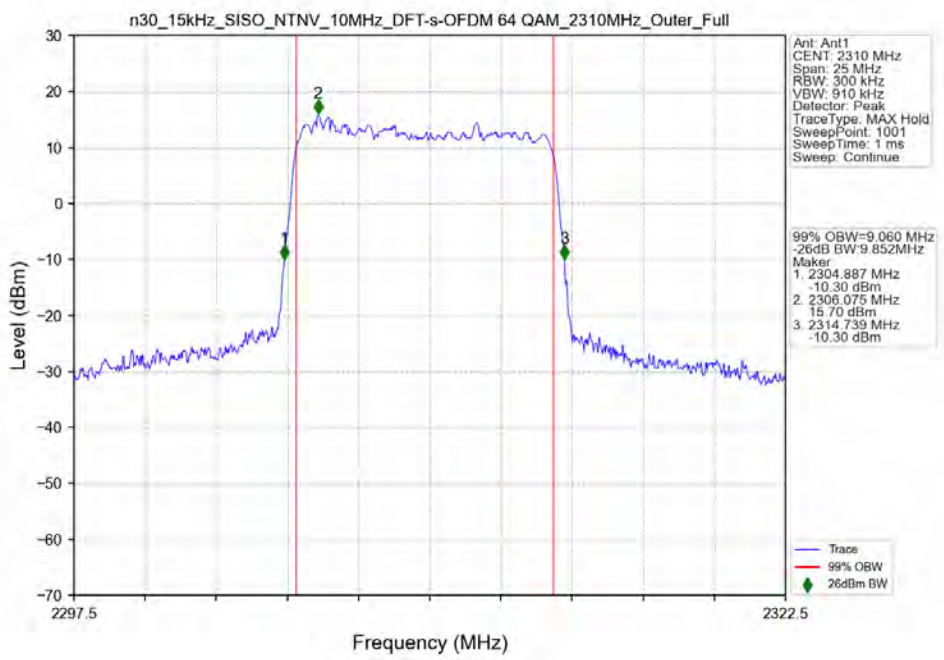

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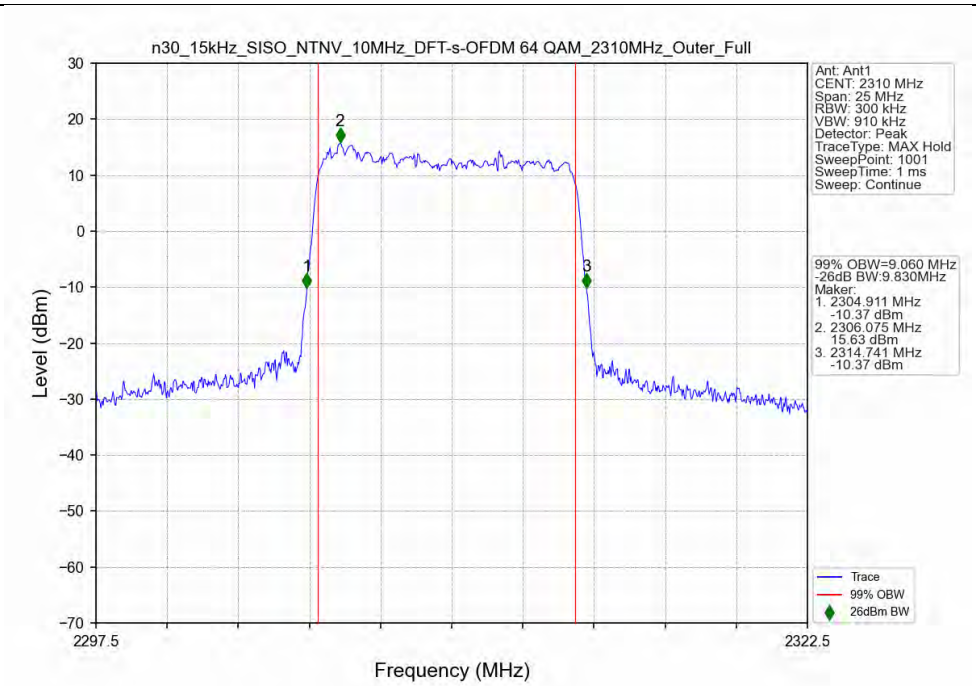

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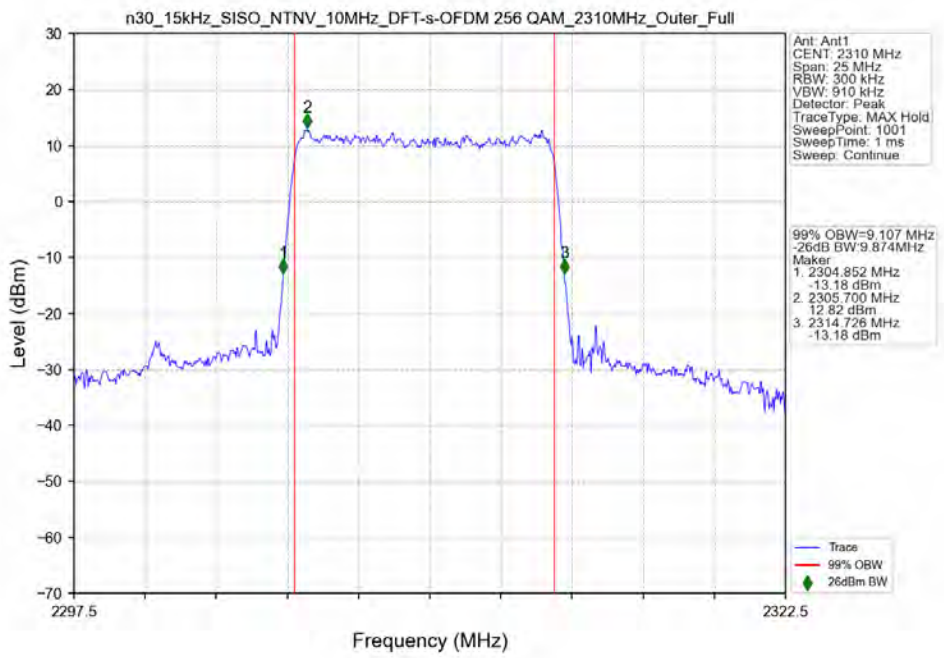

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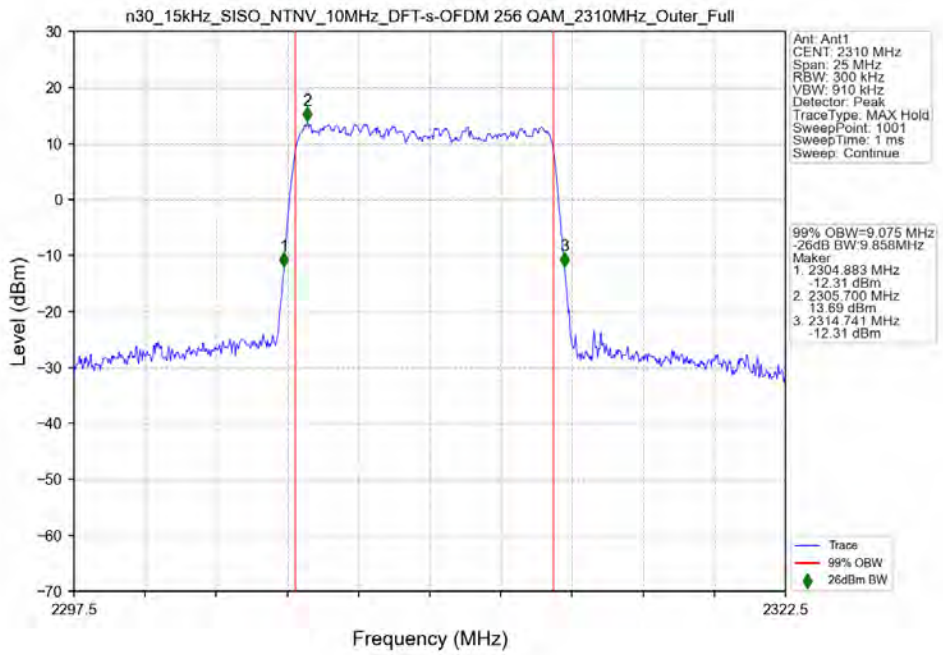

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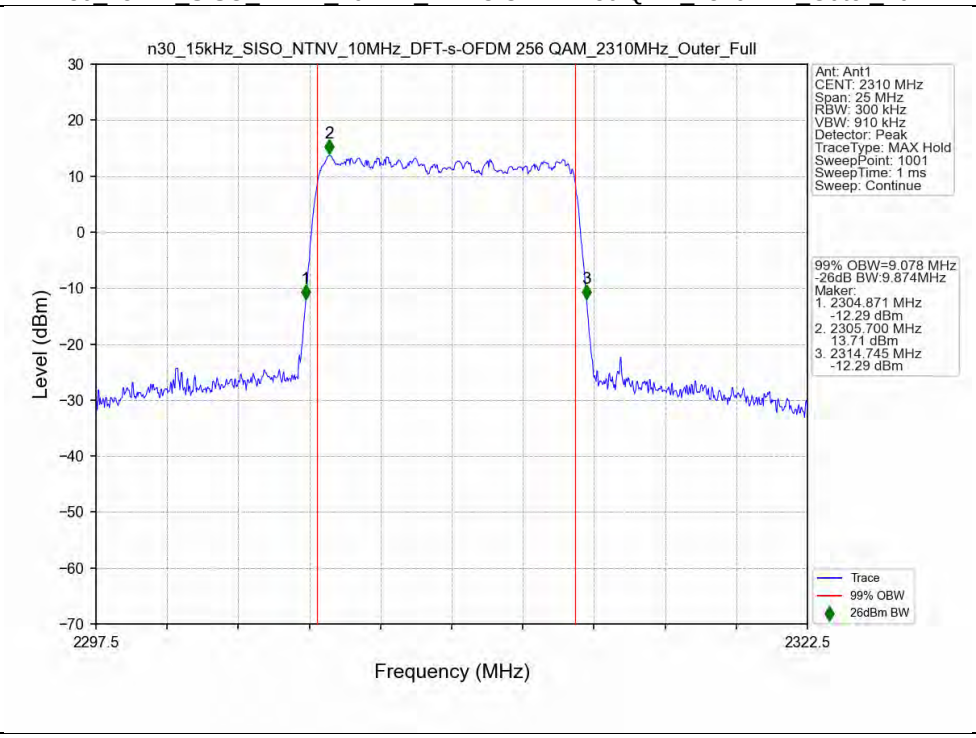

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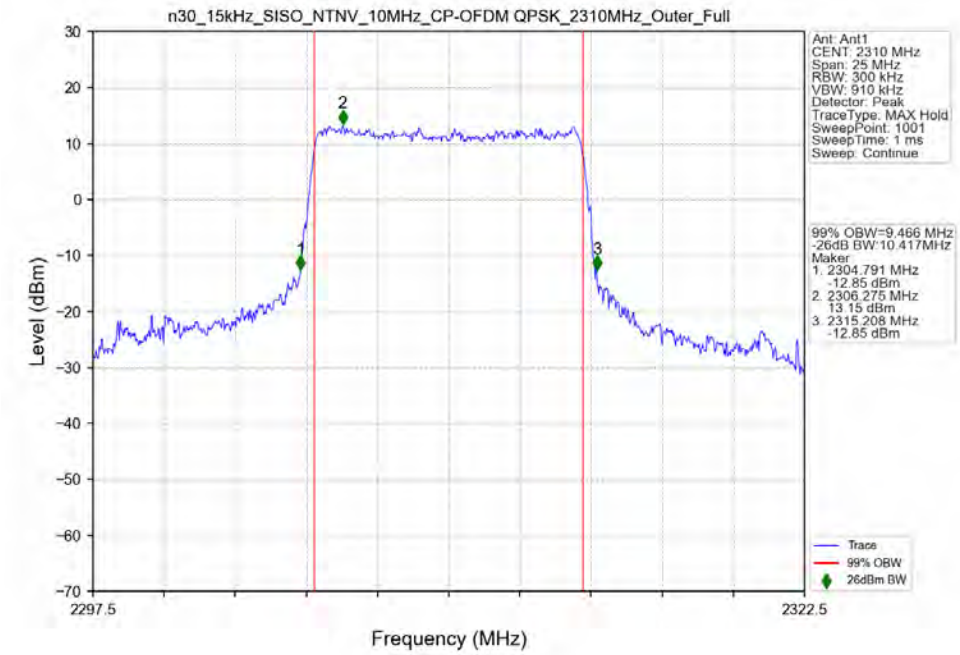

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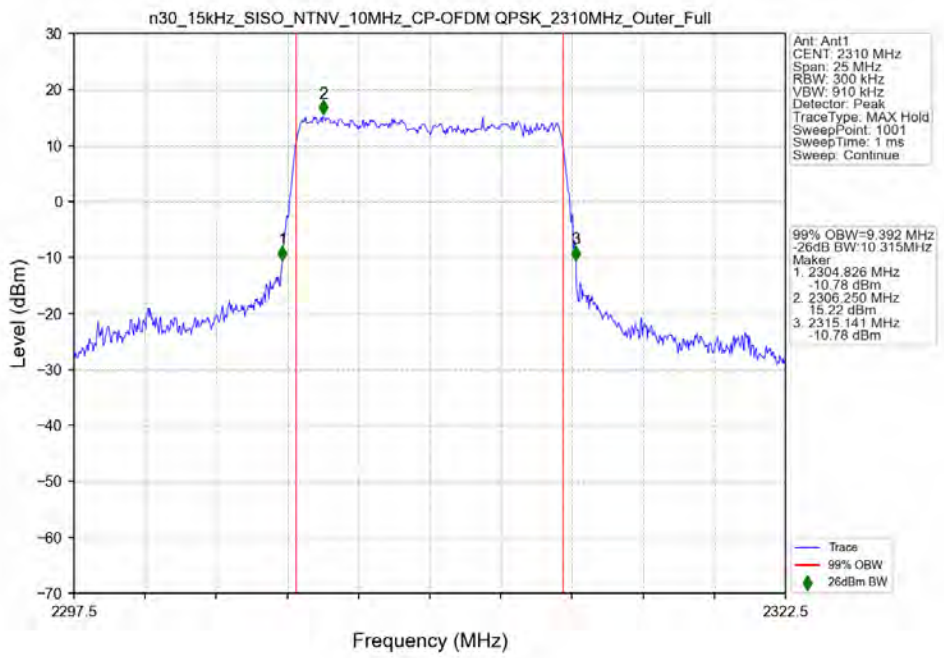

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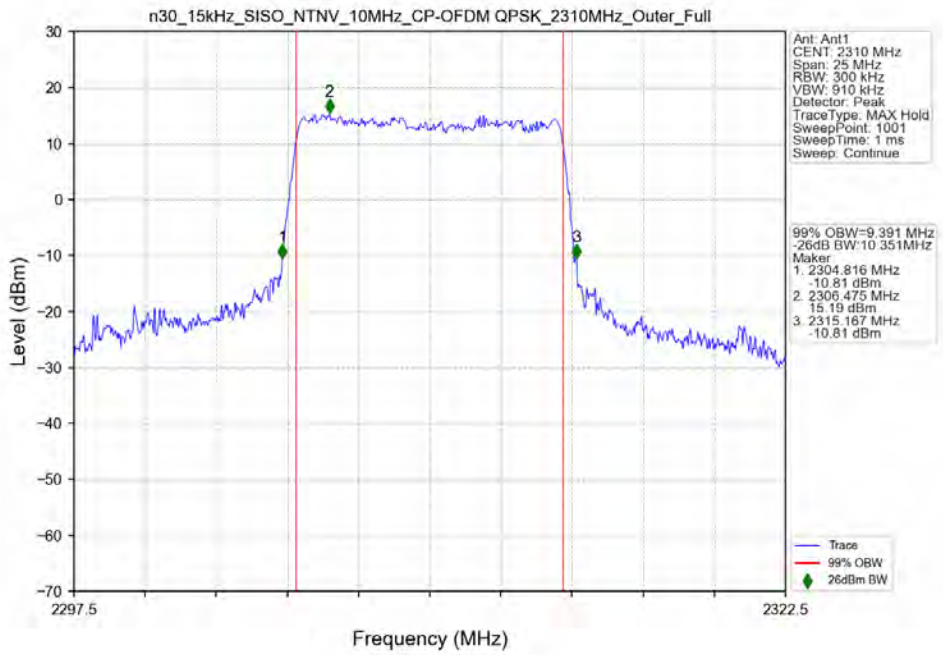

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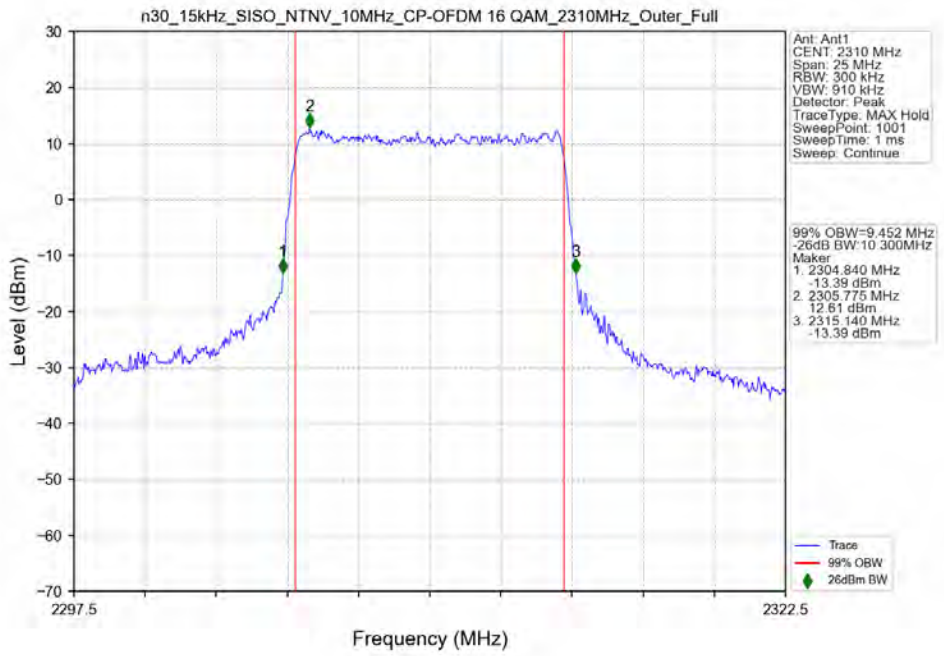

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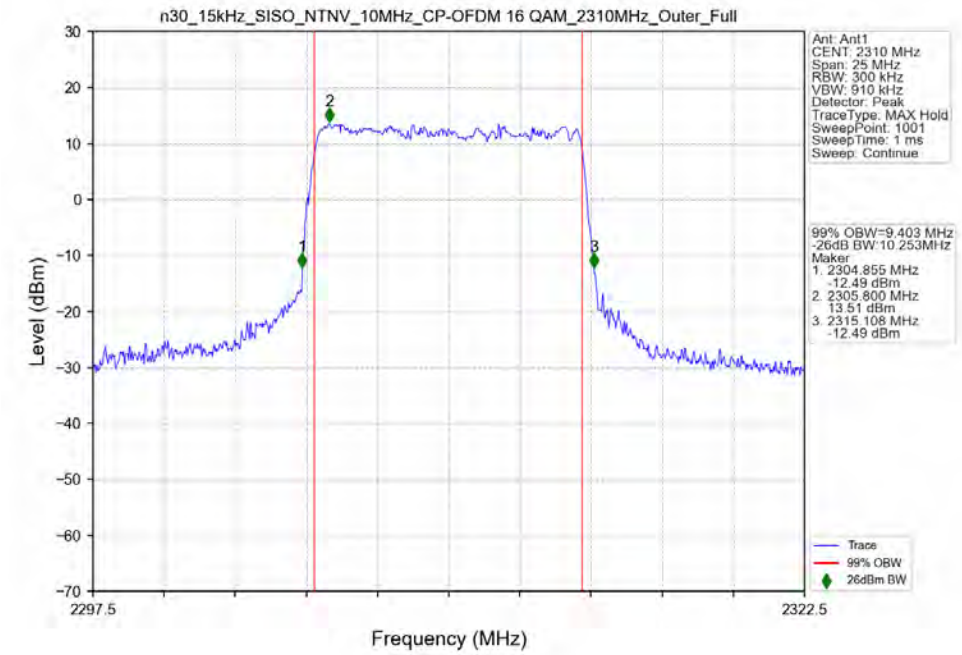

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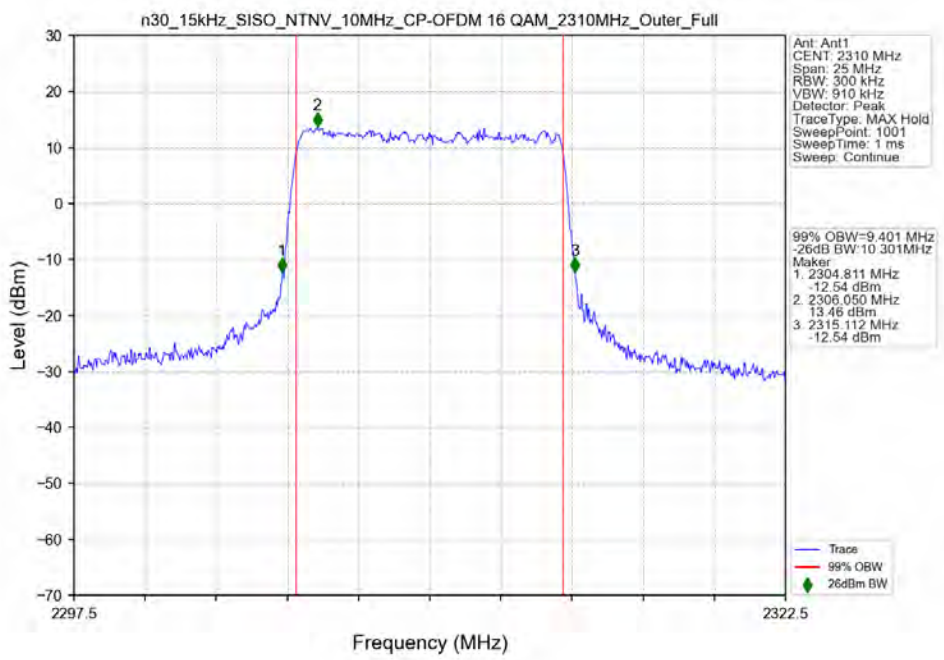

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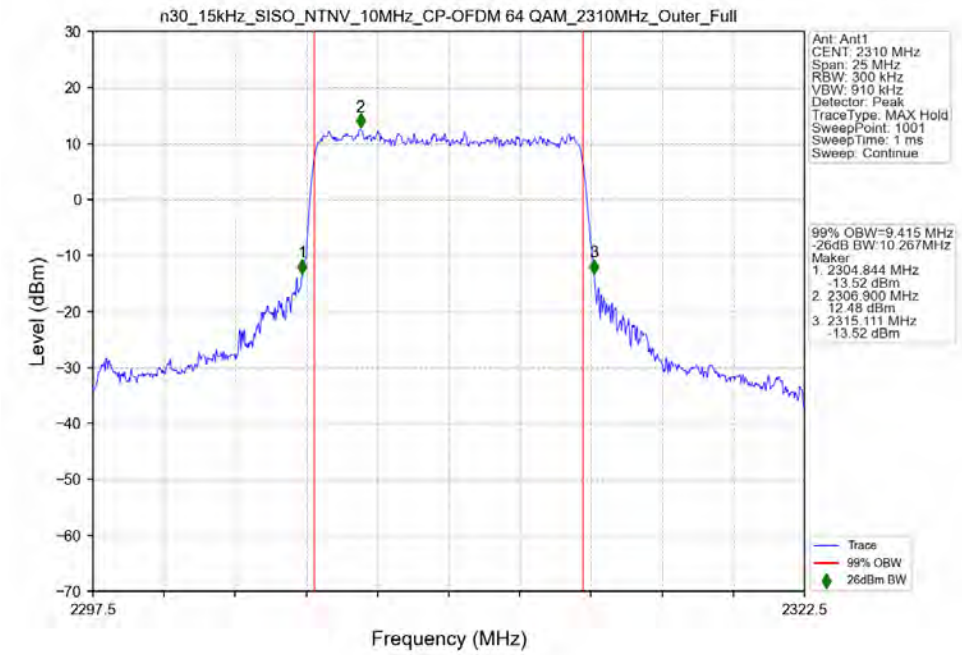

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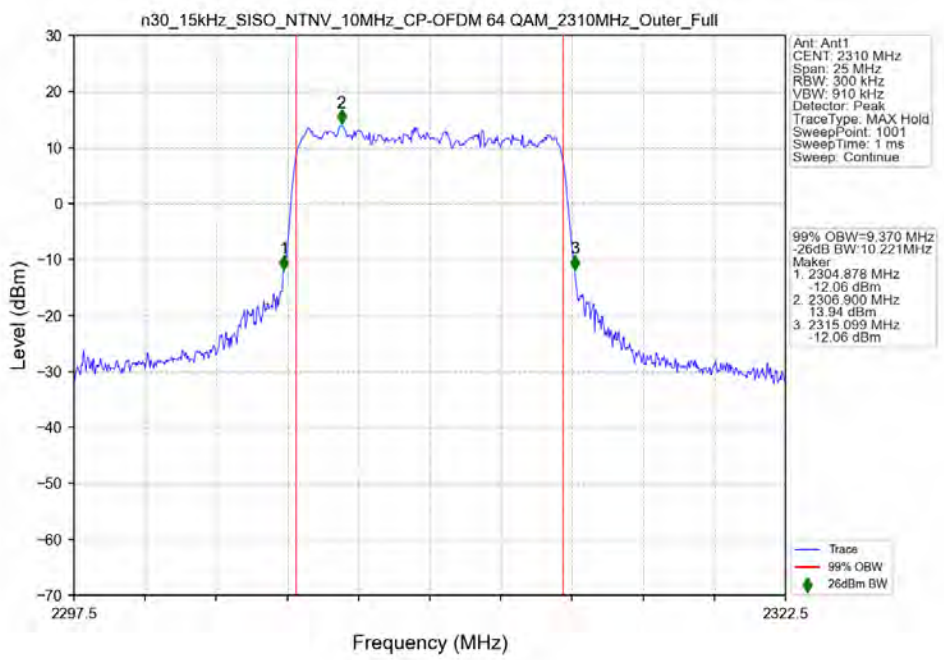

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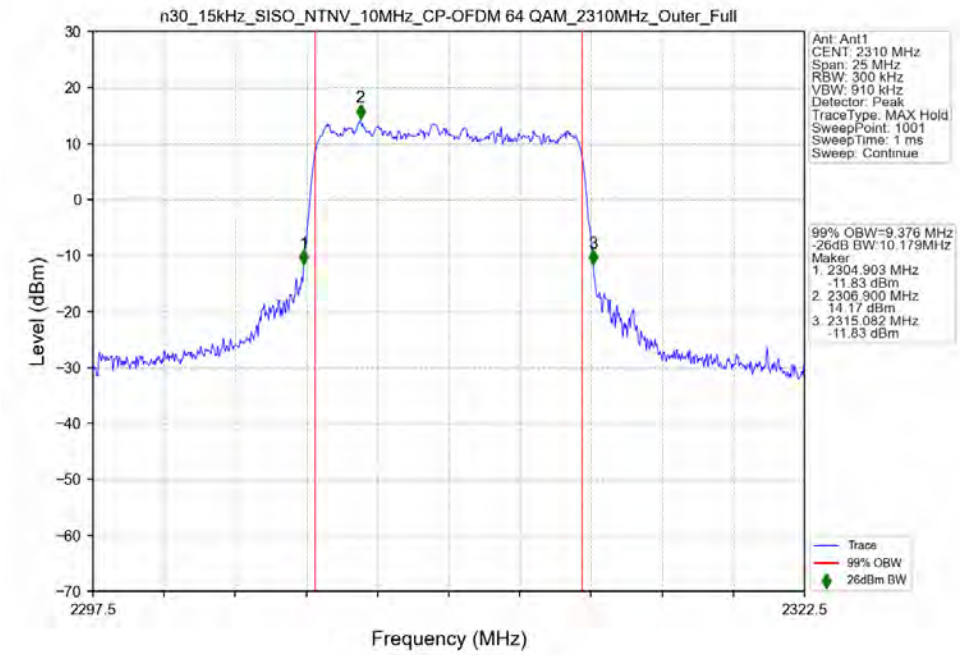

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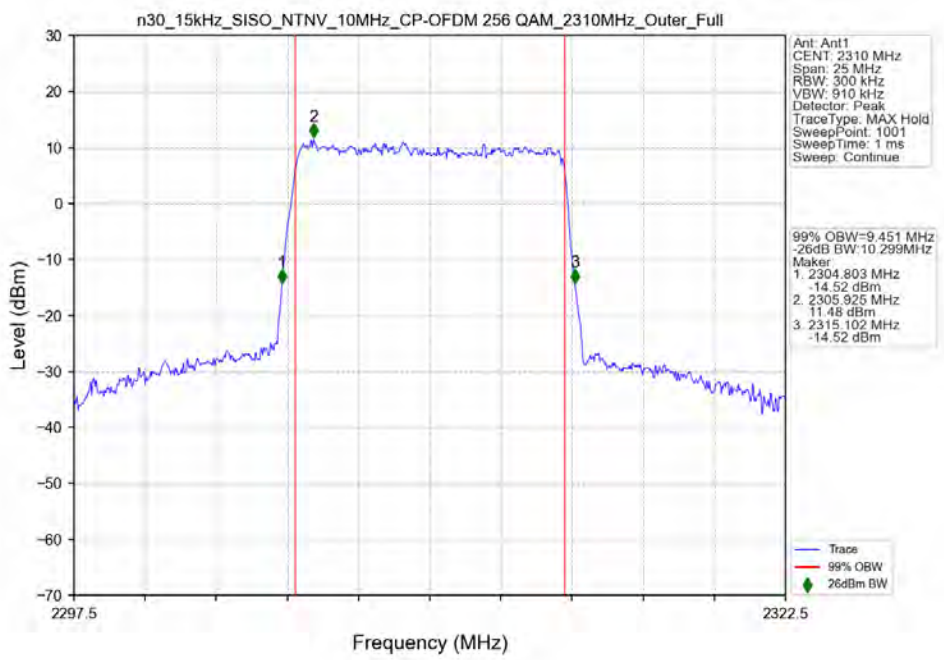

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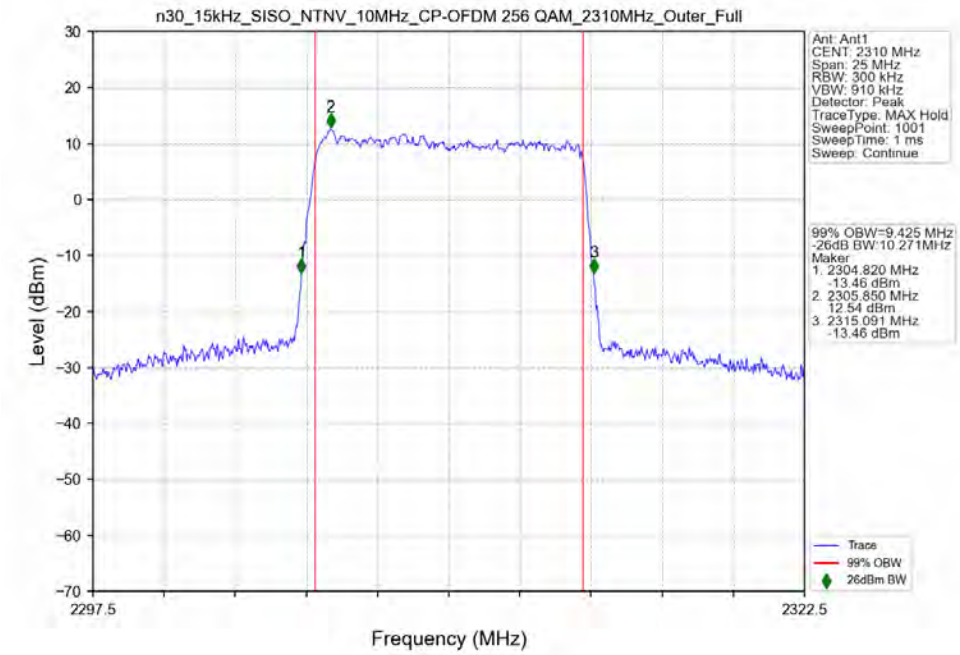

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