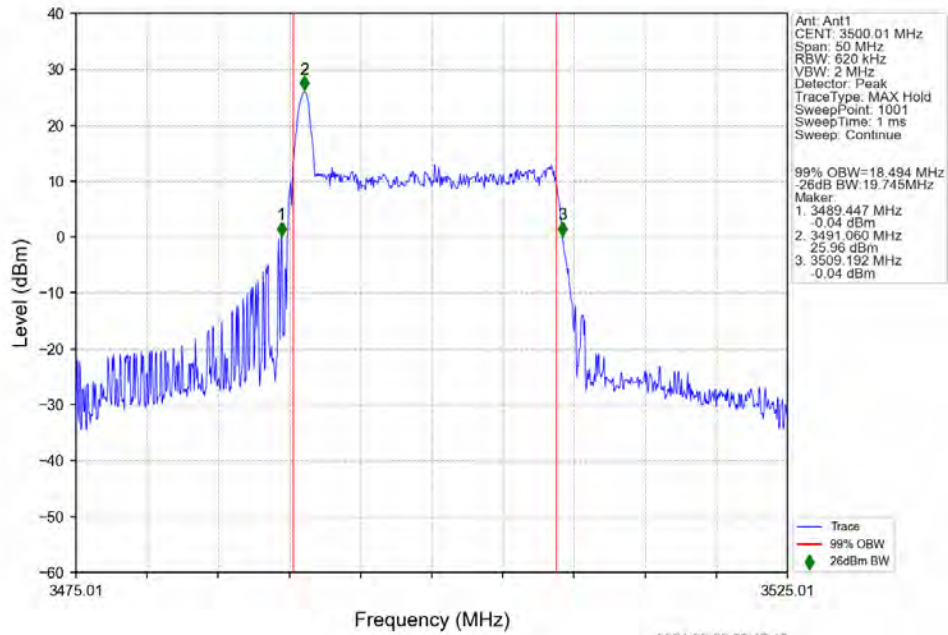
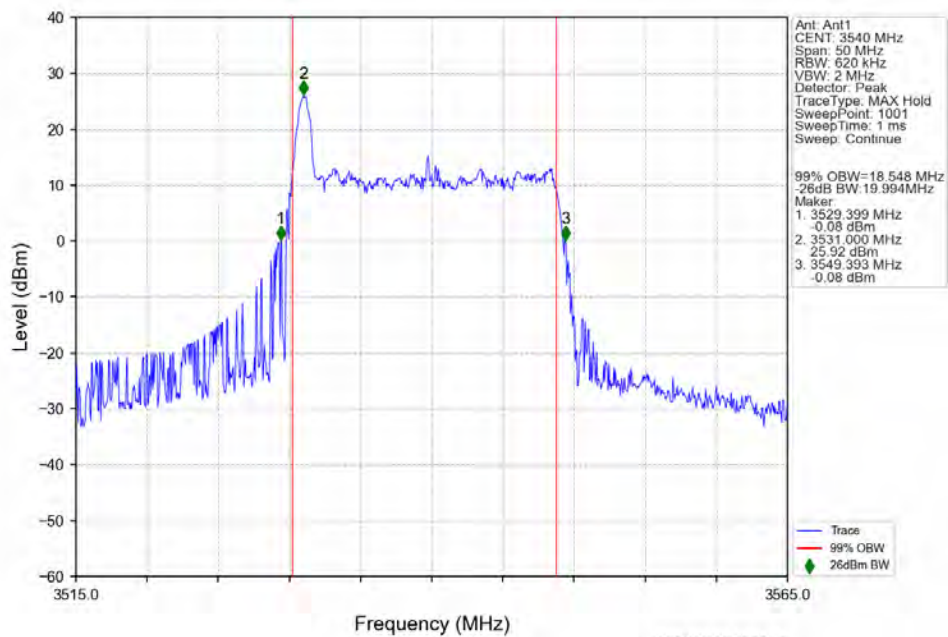


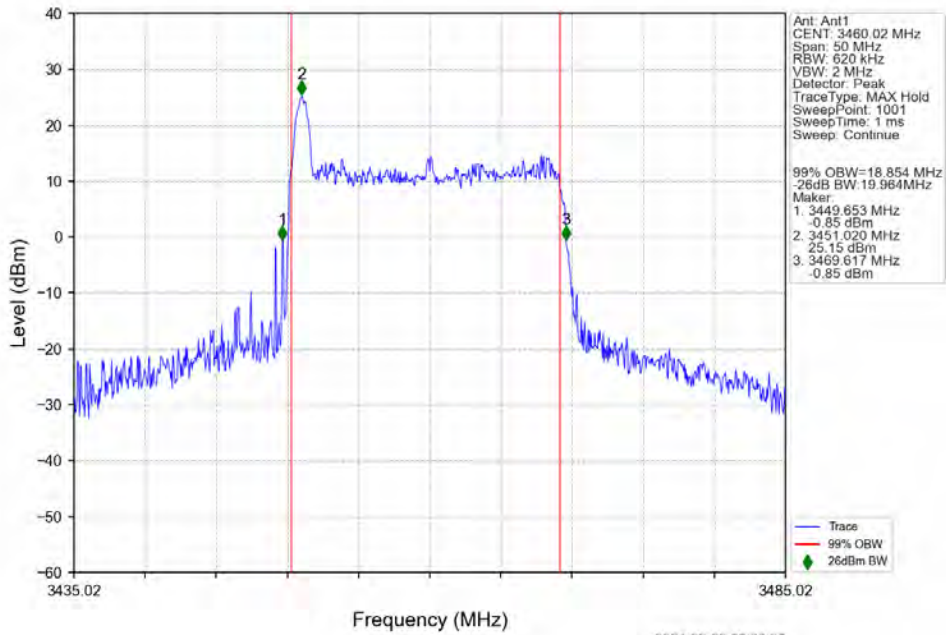
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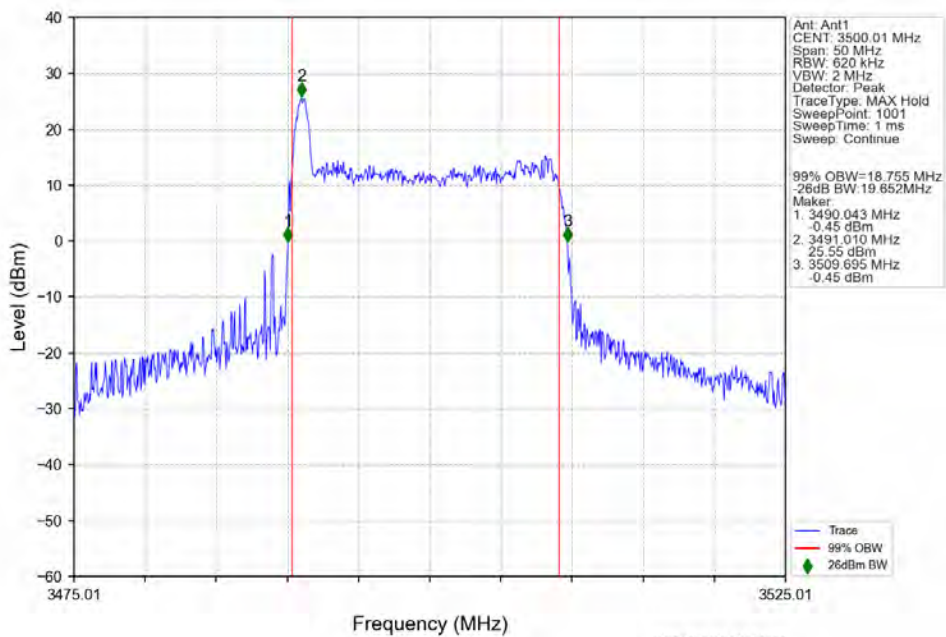
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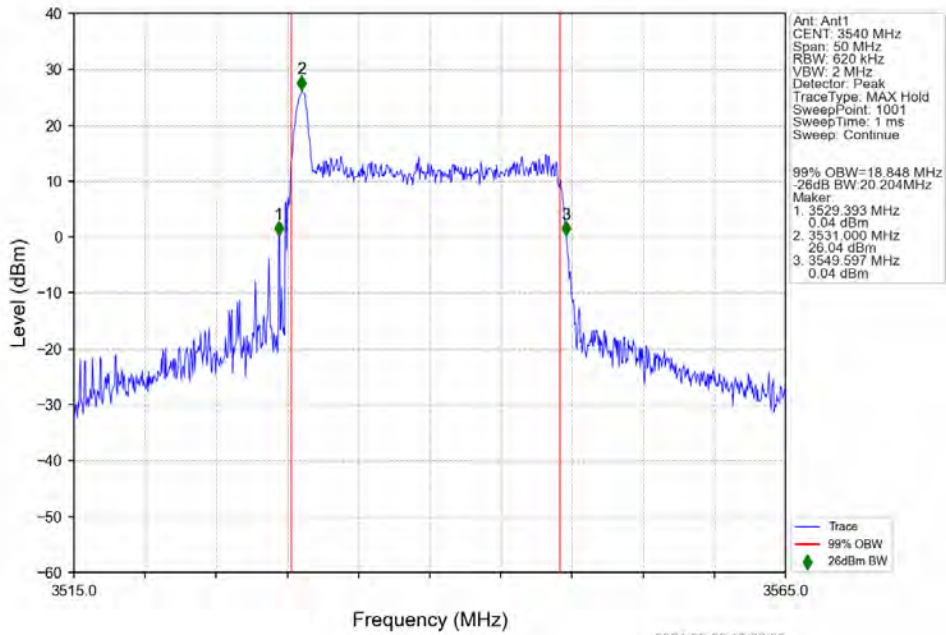
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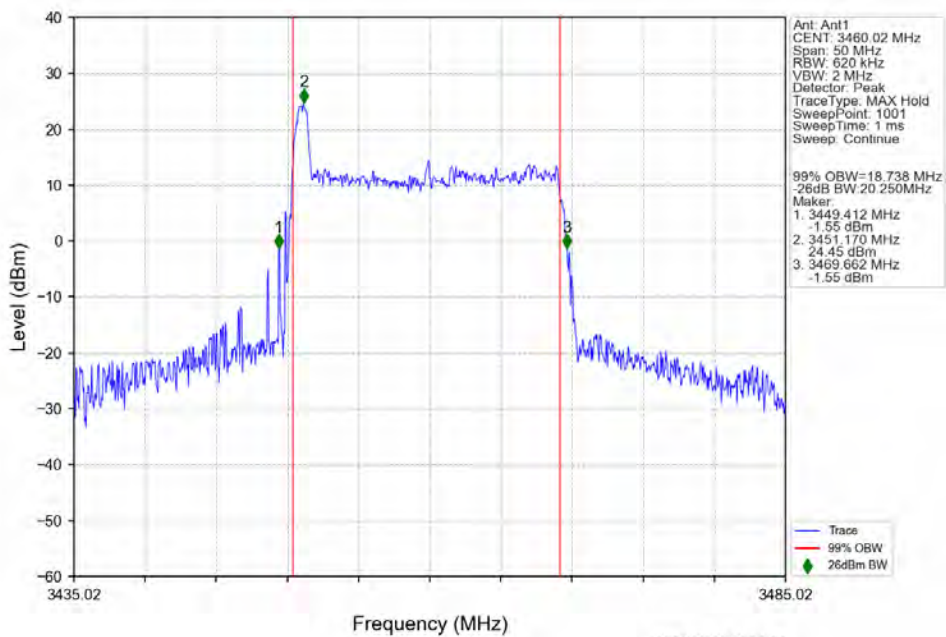
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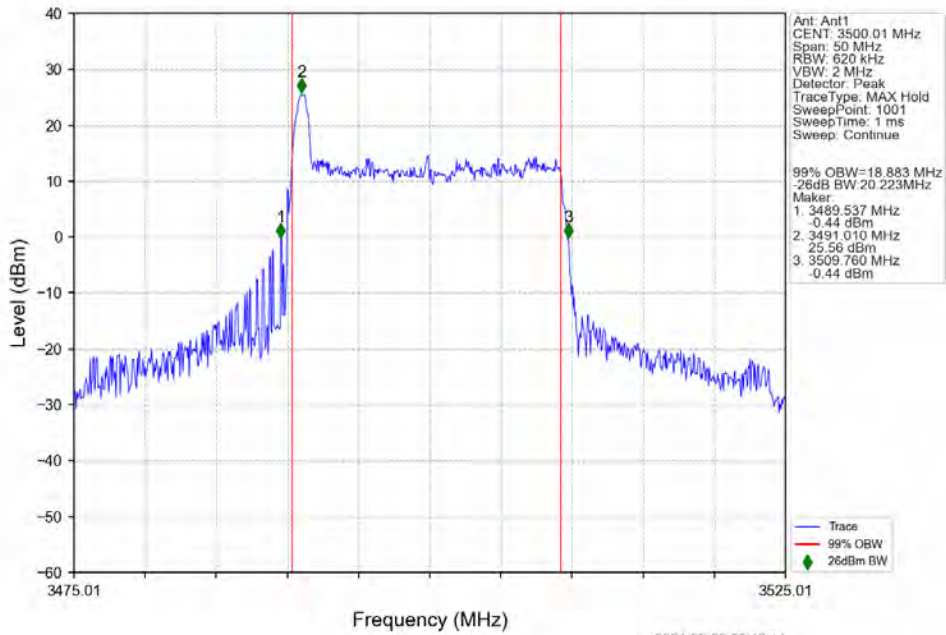
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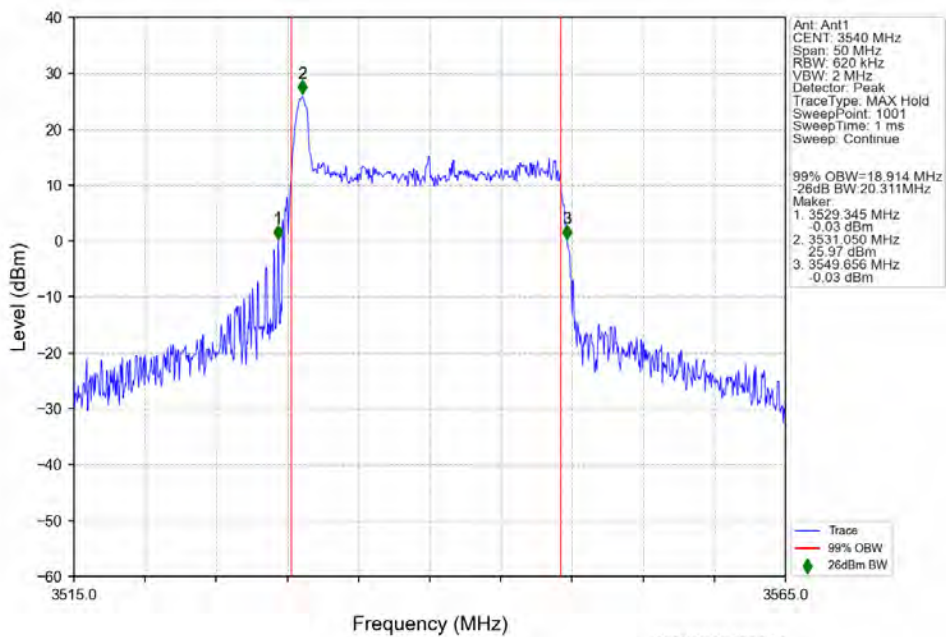
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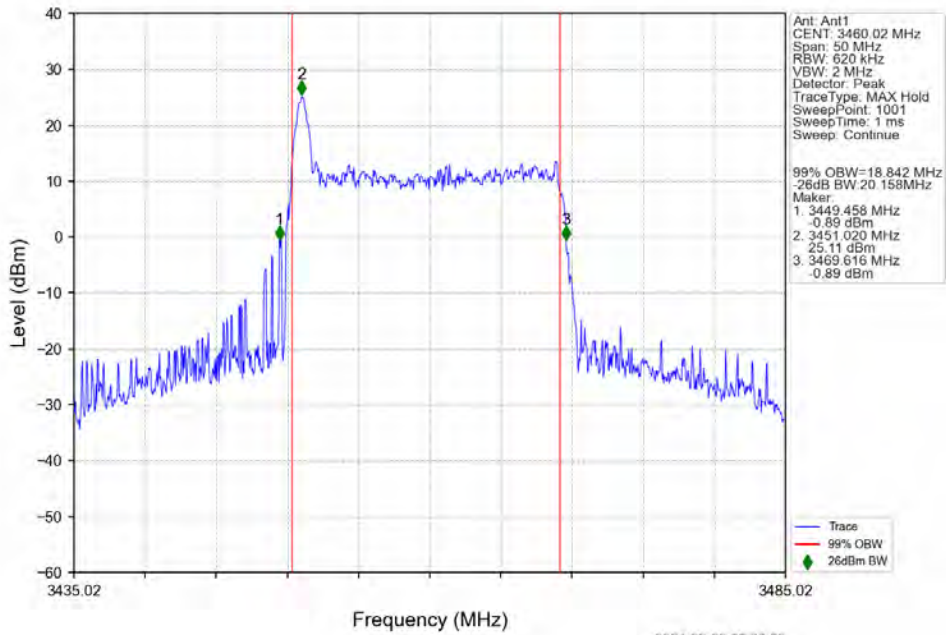
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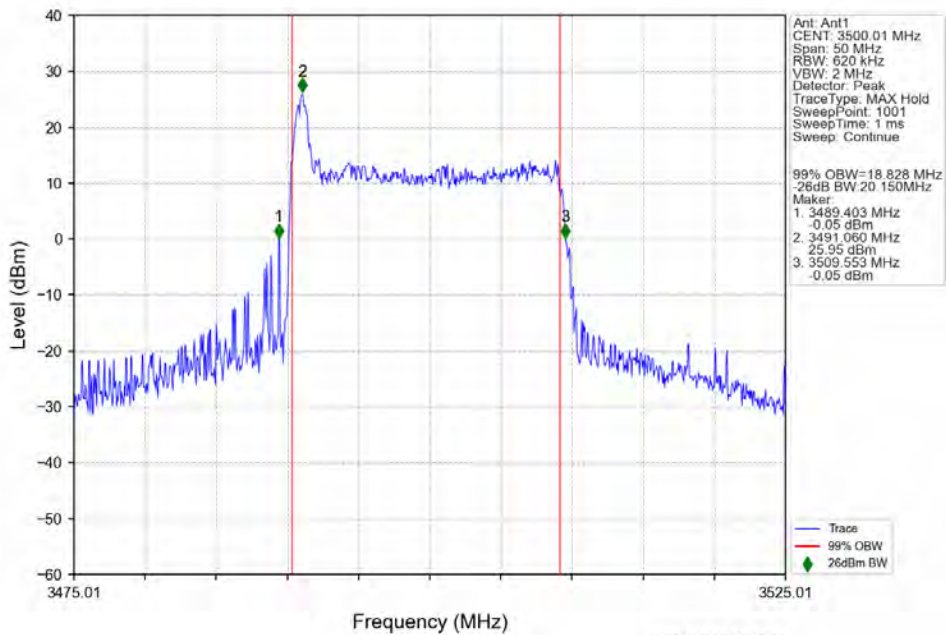
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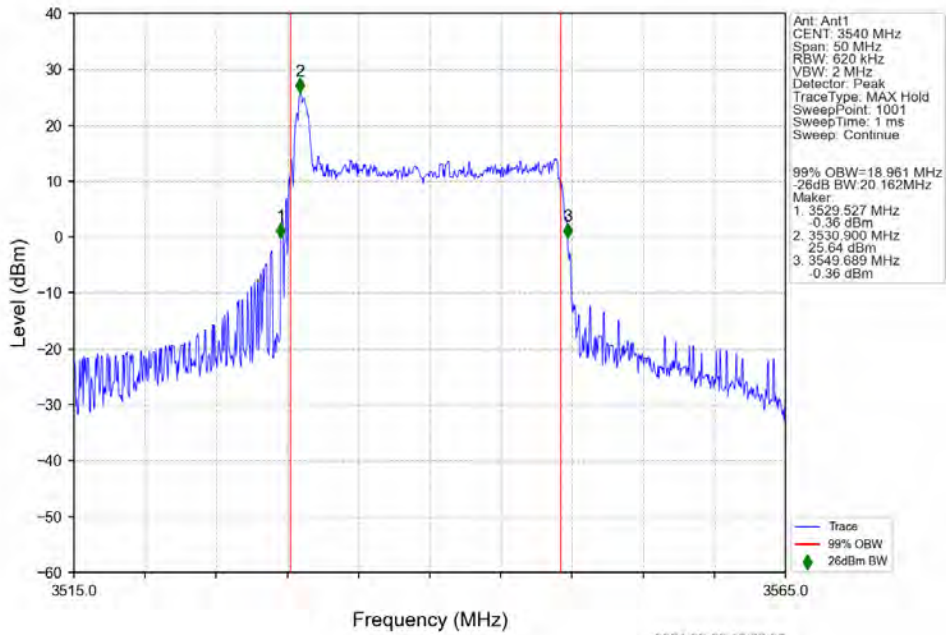
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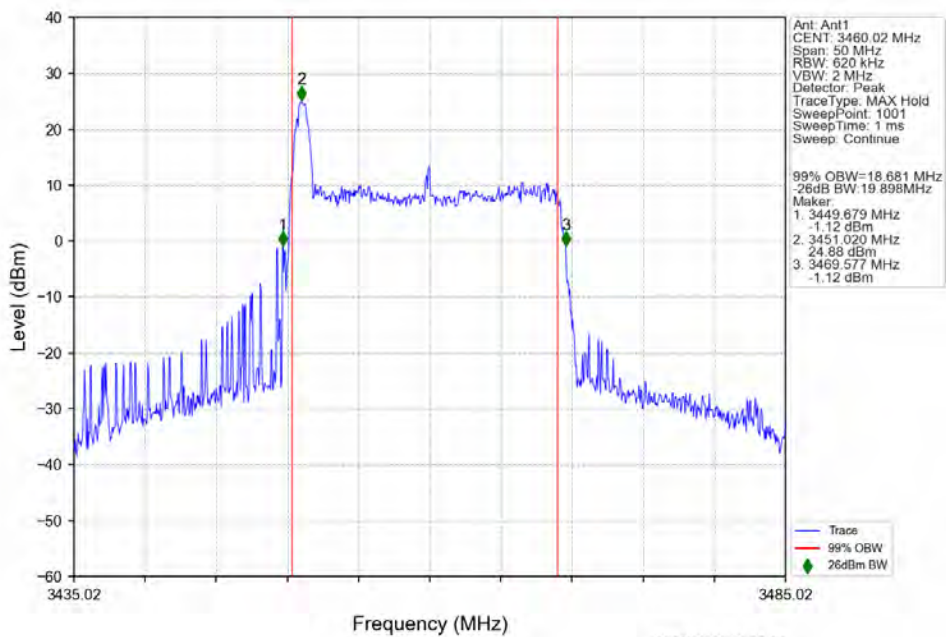
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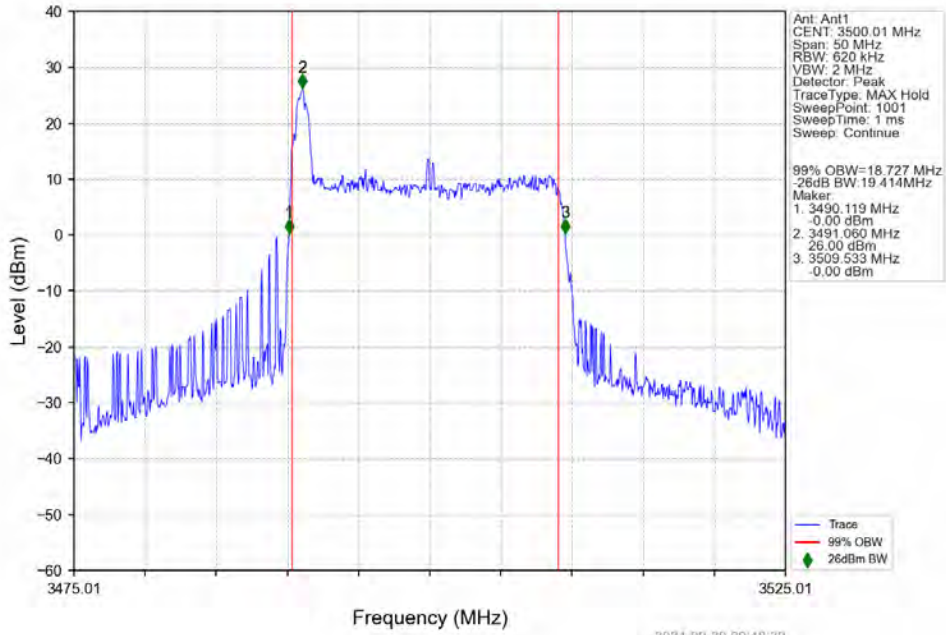
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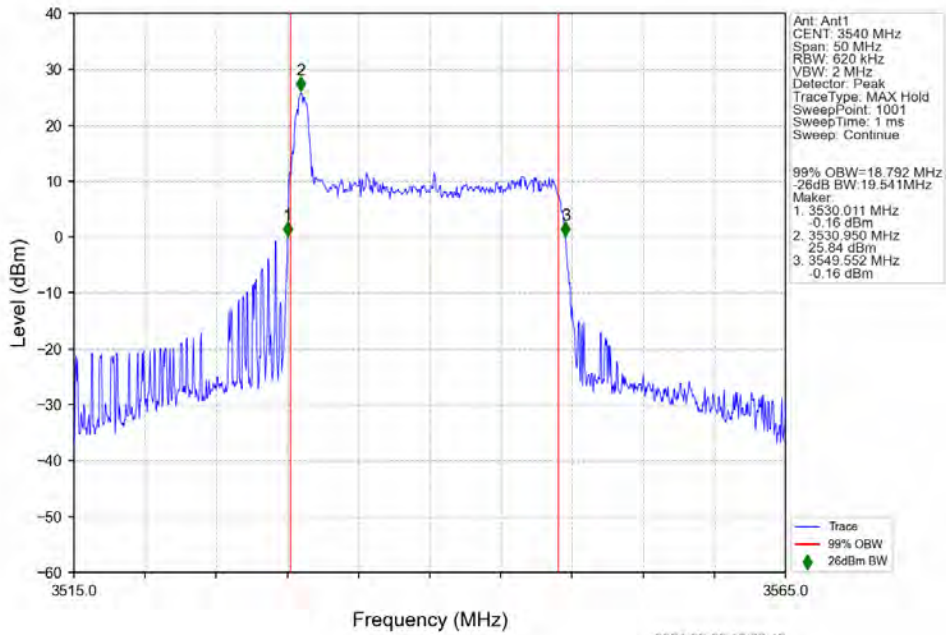
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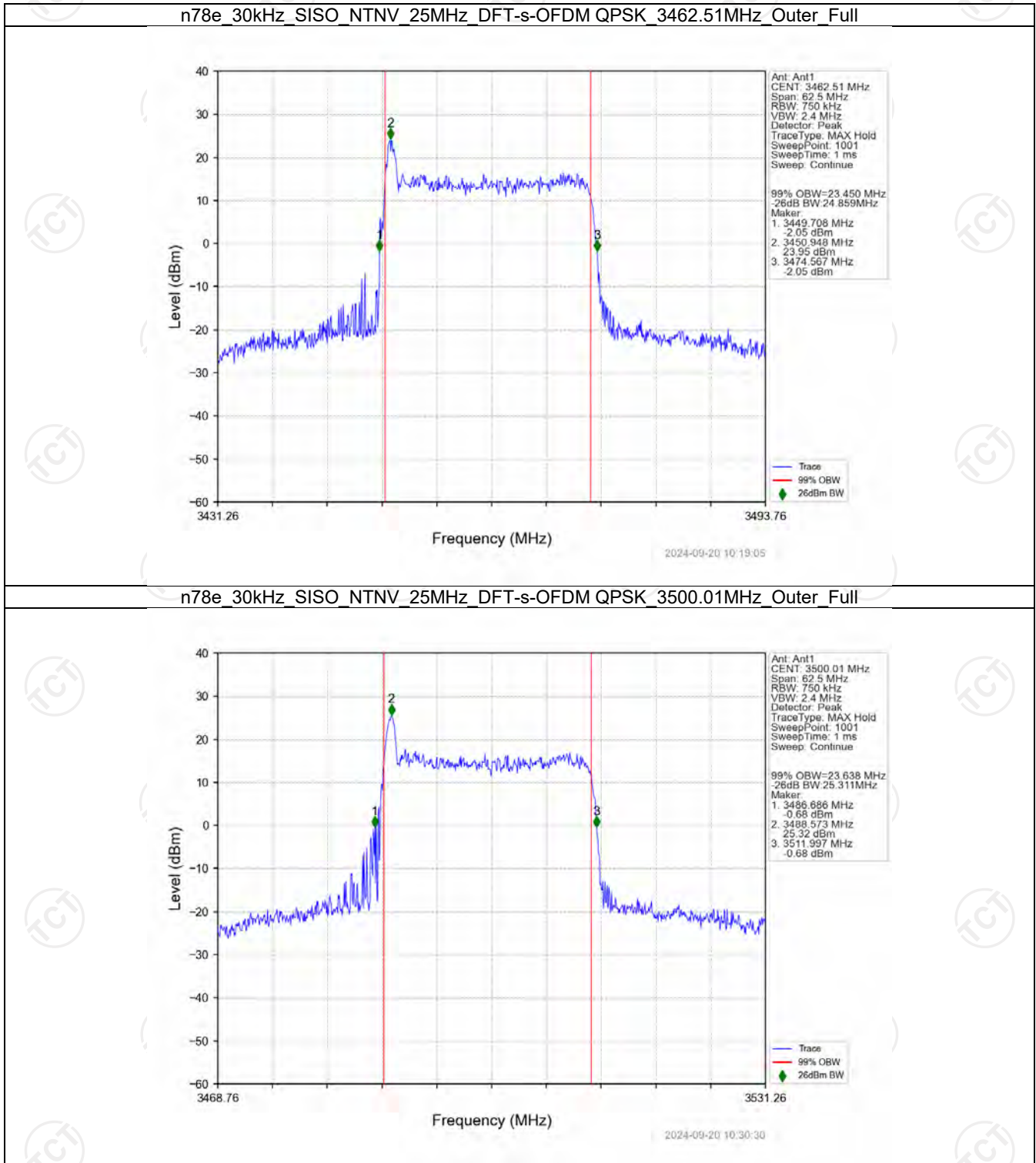
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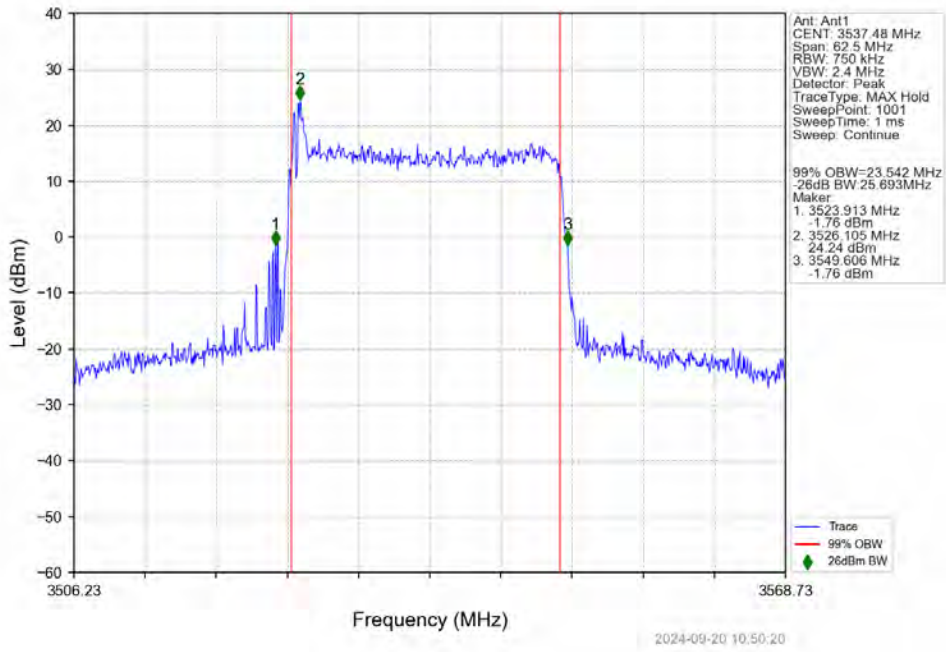
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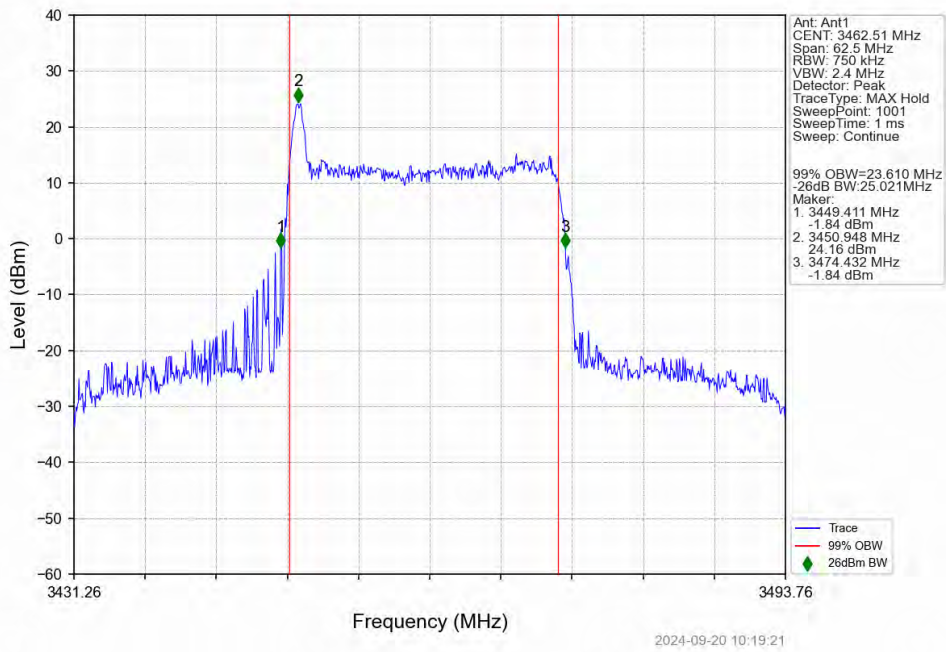
4.2.11 30k_SISO_25MHz_NTNV



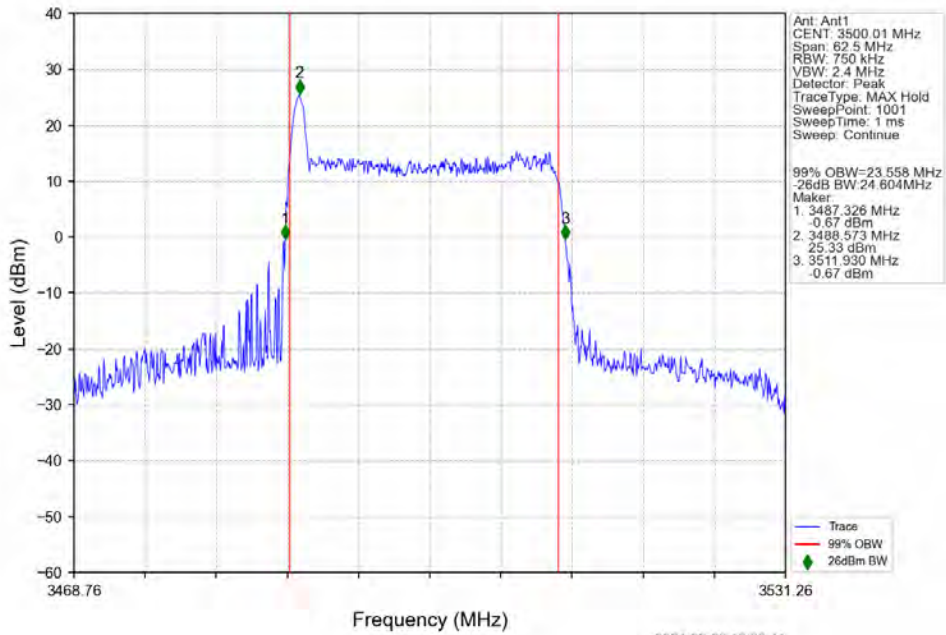
n78e 30kHz SISO NTN 25MHz DFT-s-OFDM QPSK 3537.48MHz Outer Full



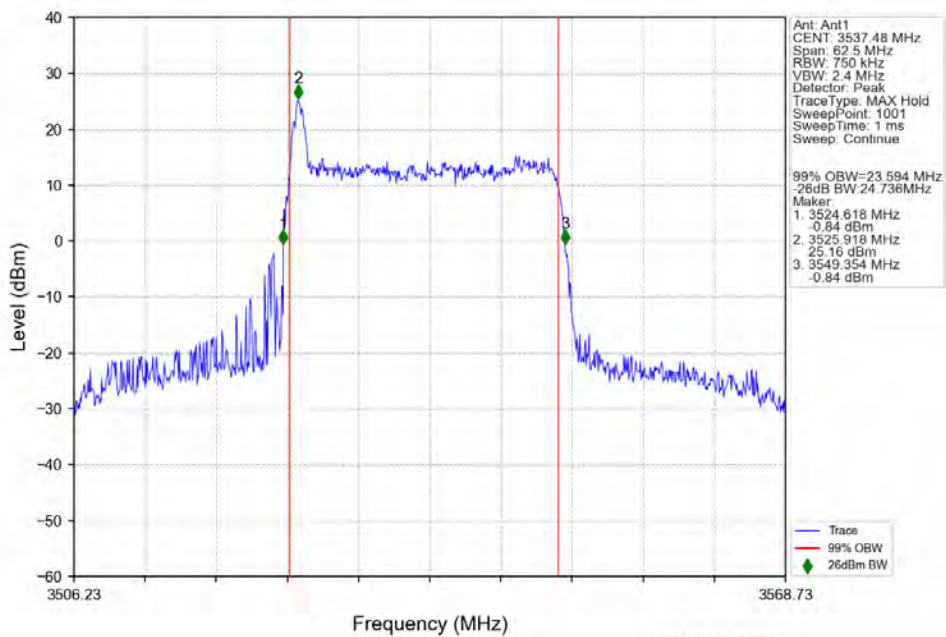
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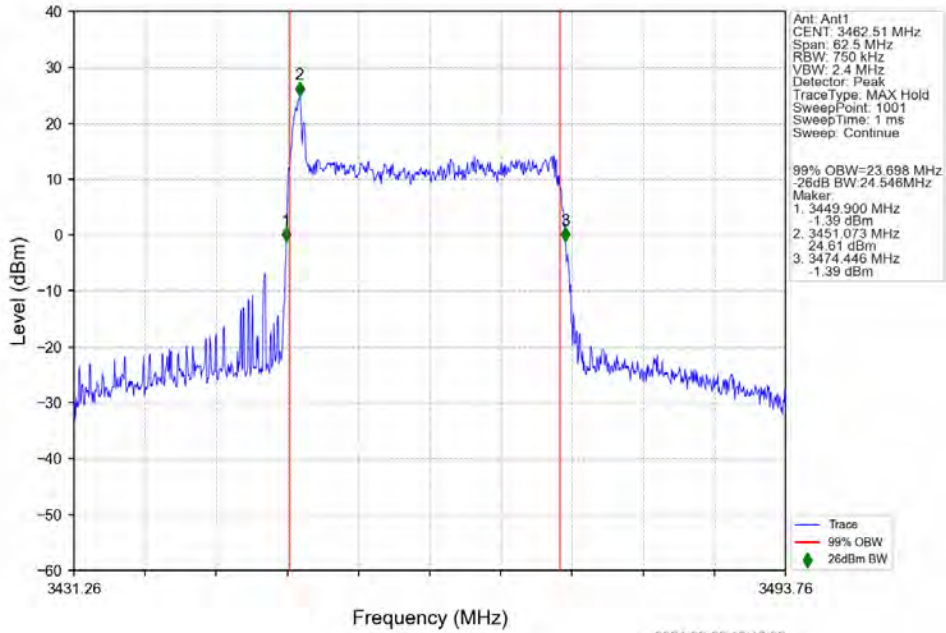
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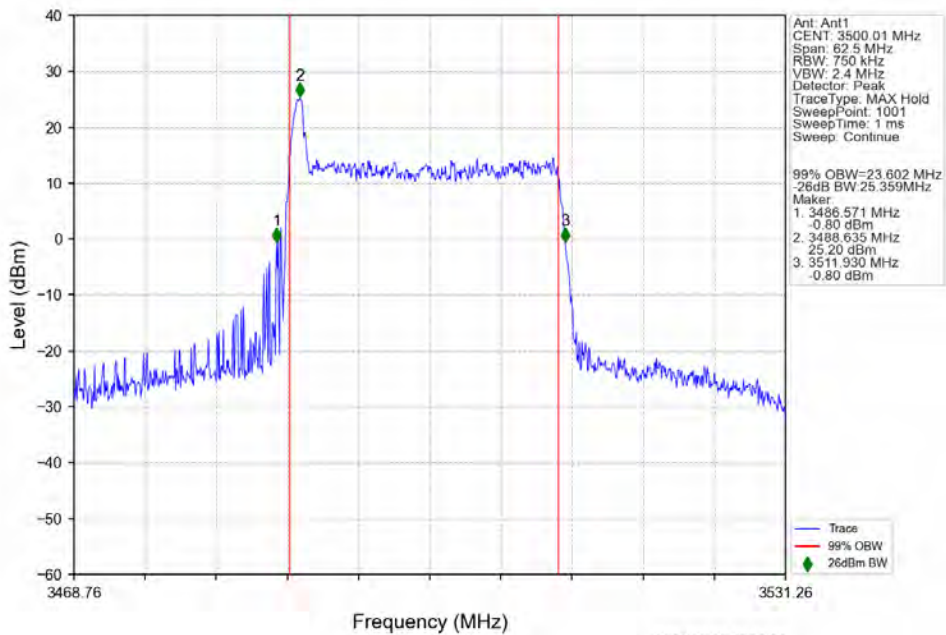
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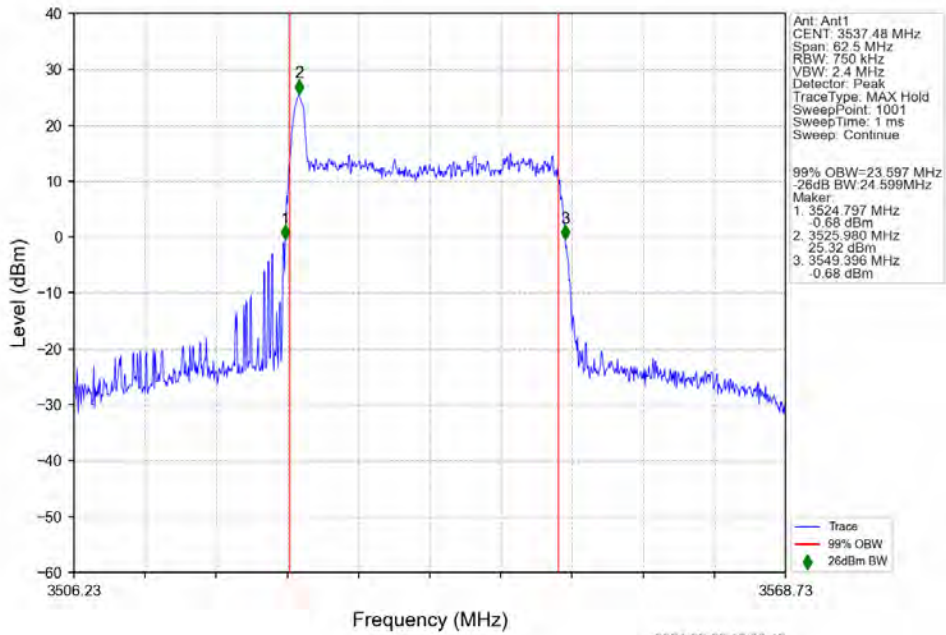
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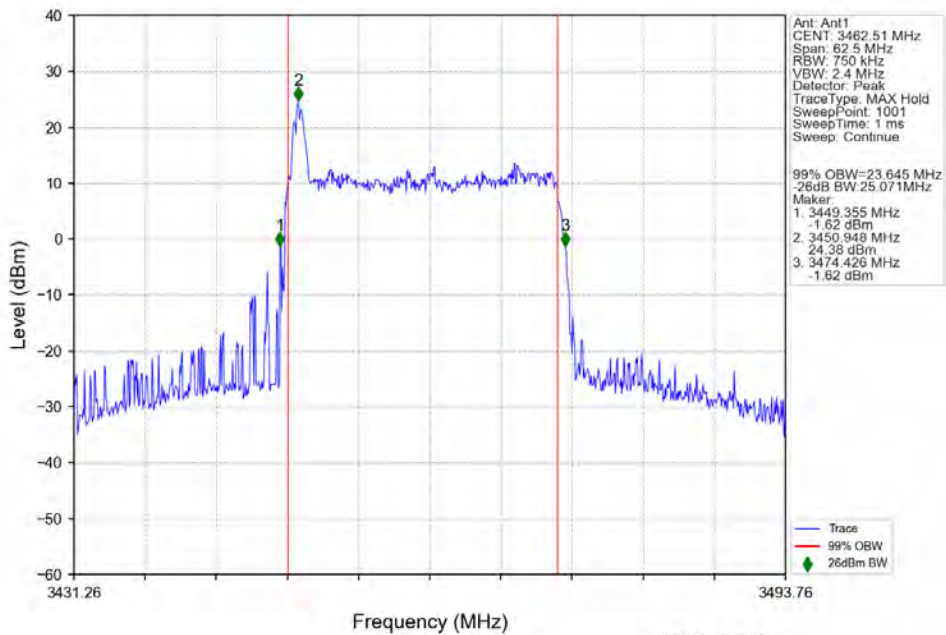
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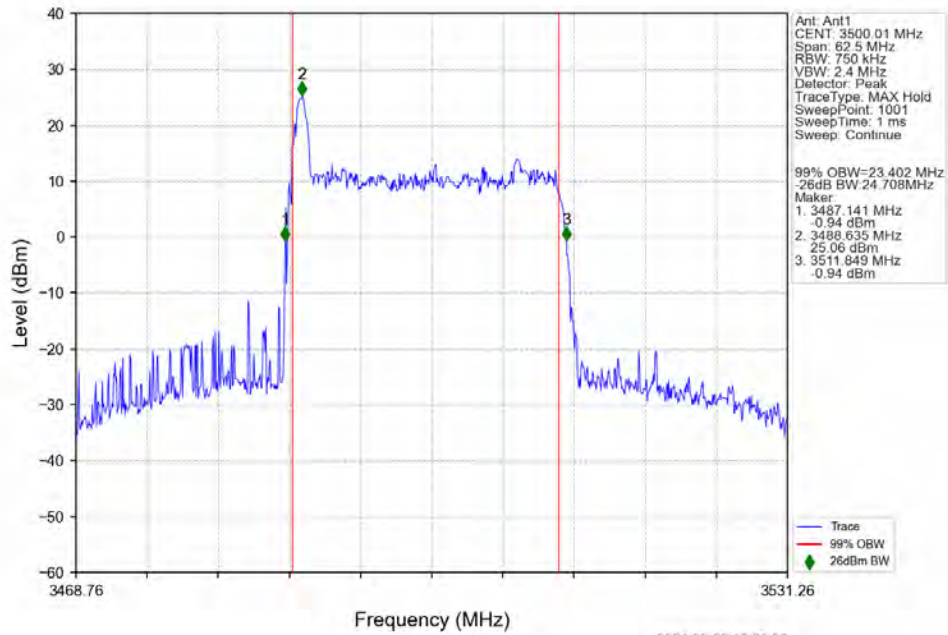
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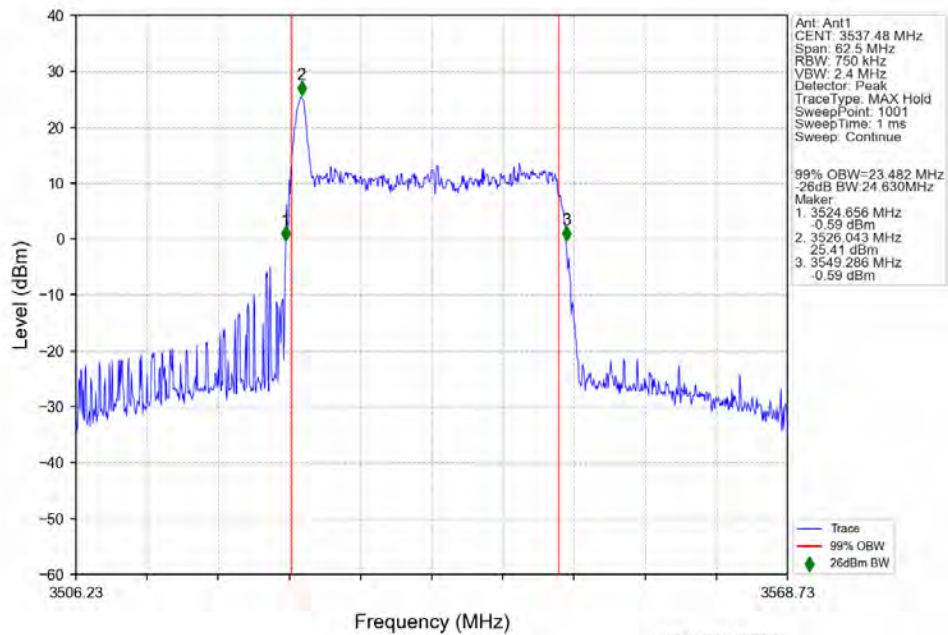
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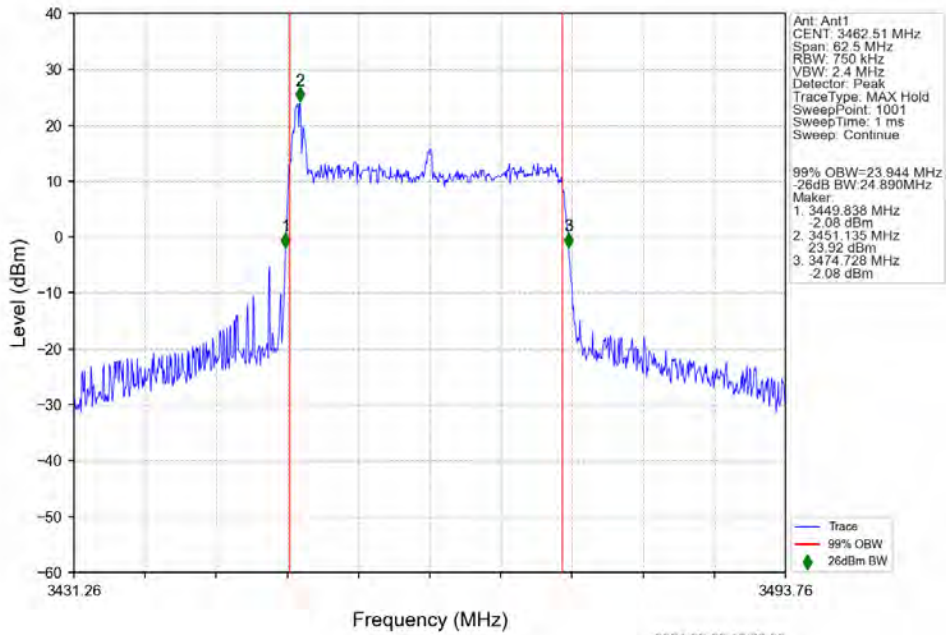
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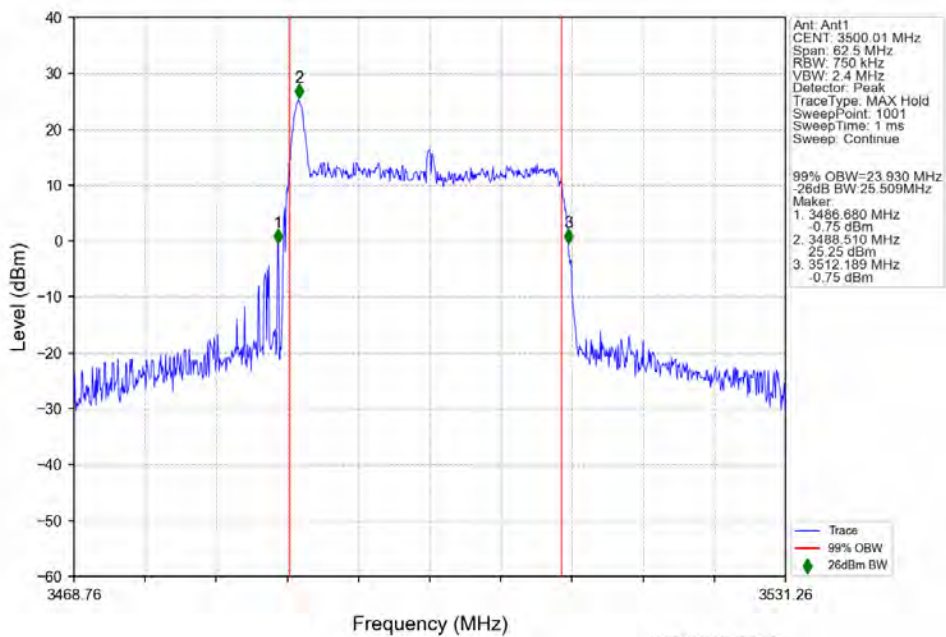
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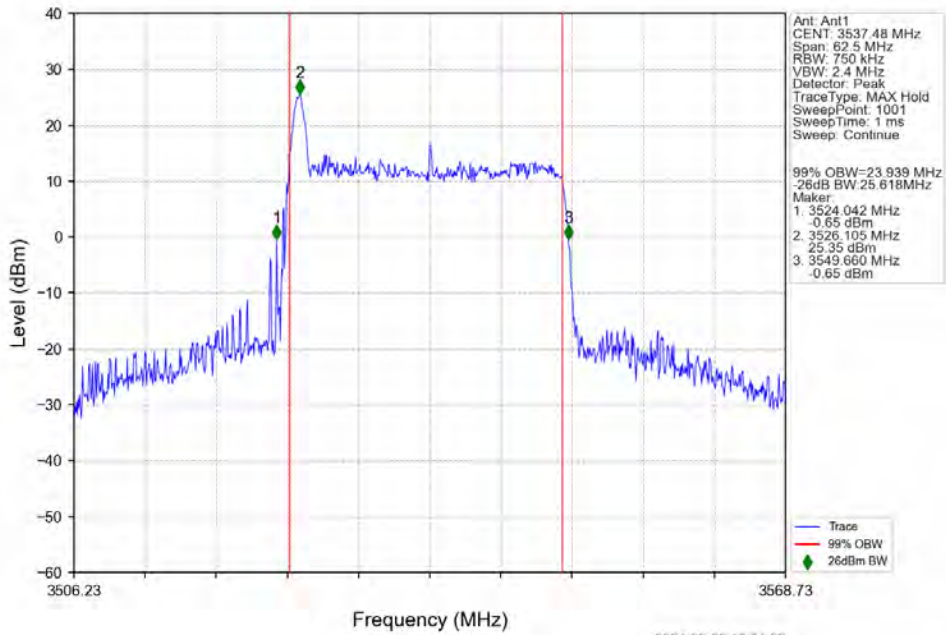
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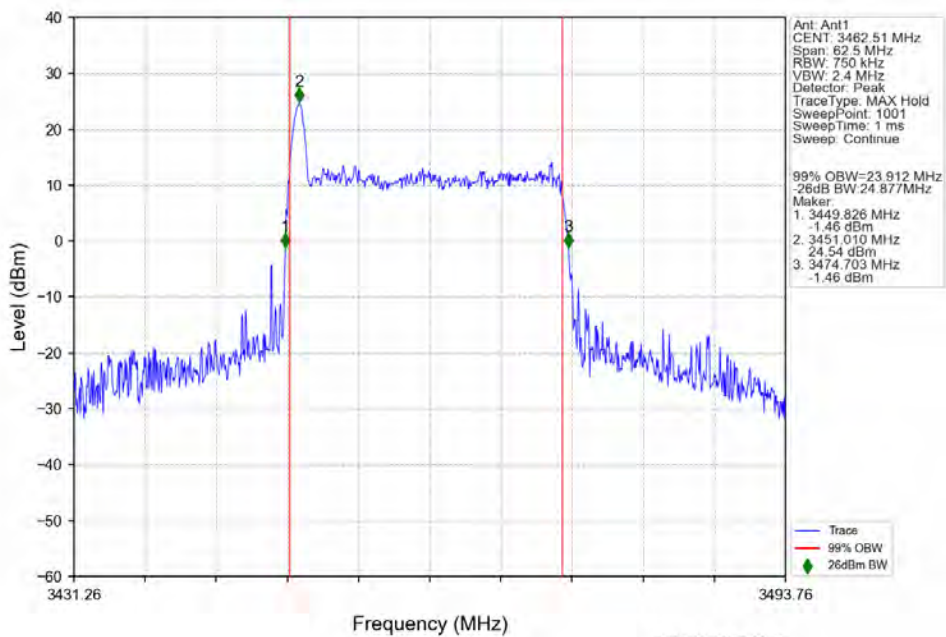
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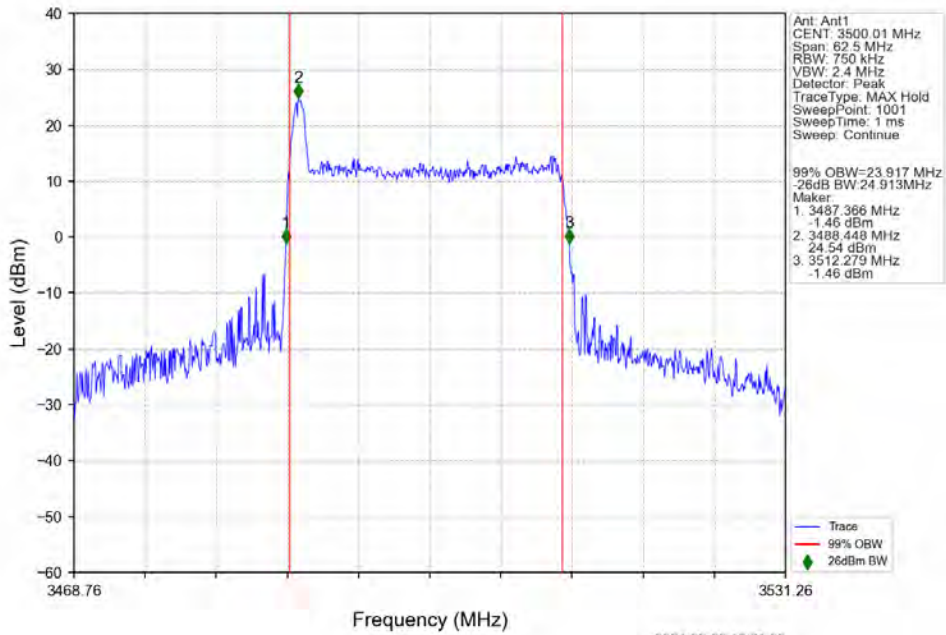
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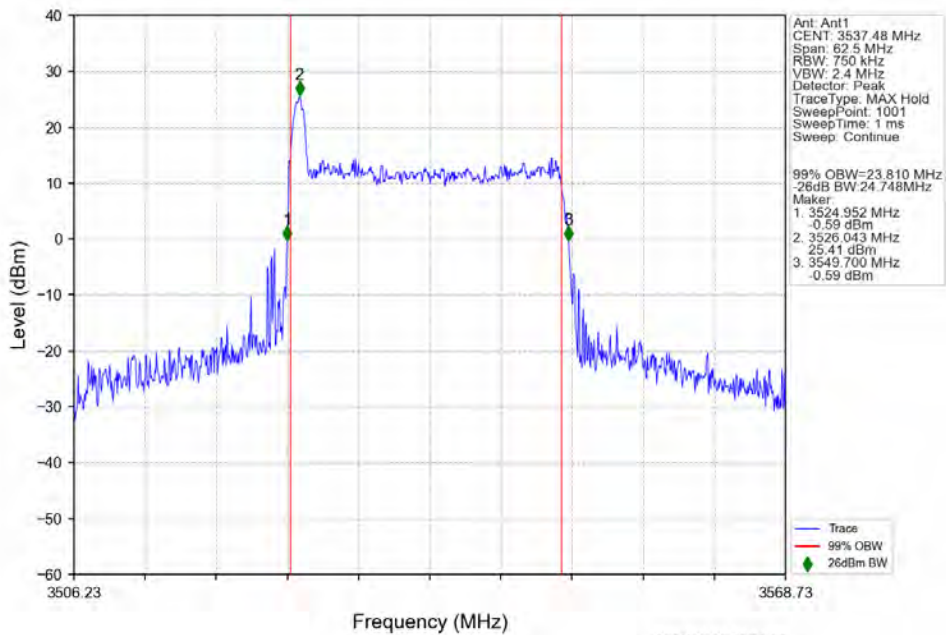
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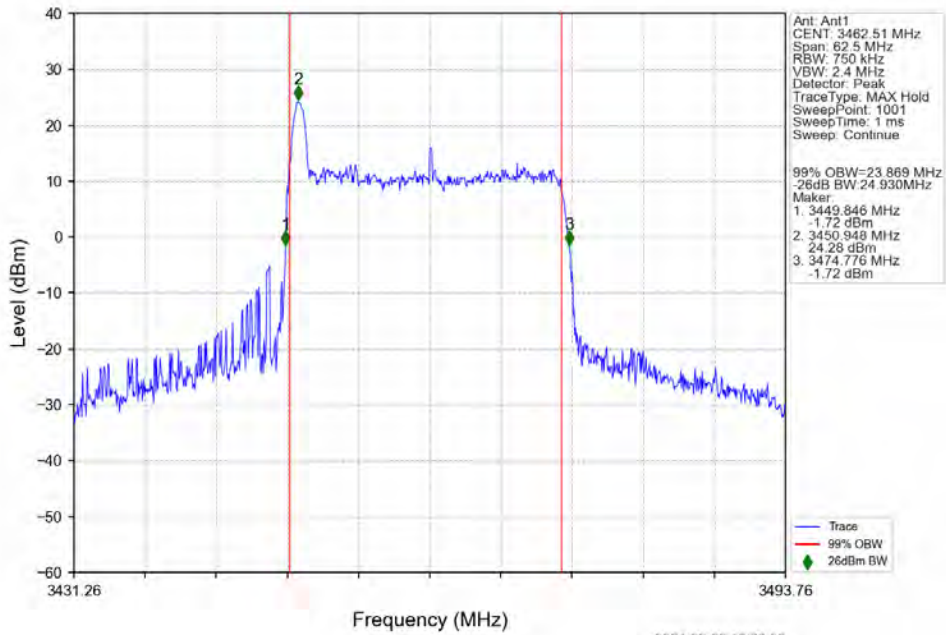
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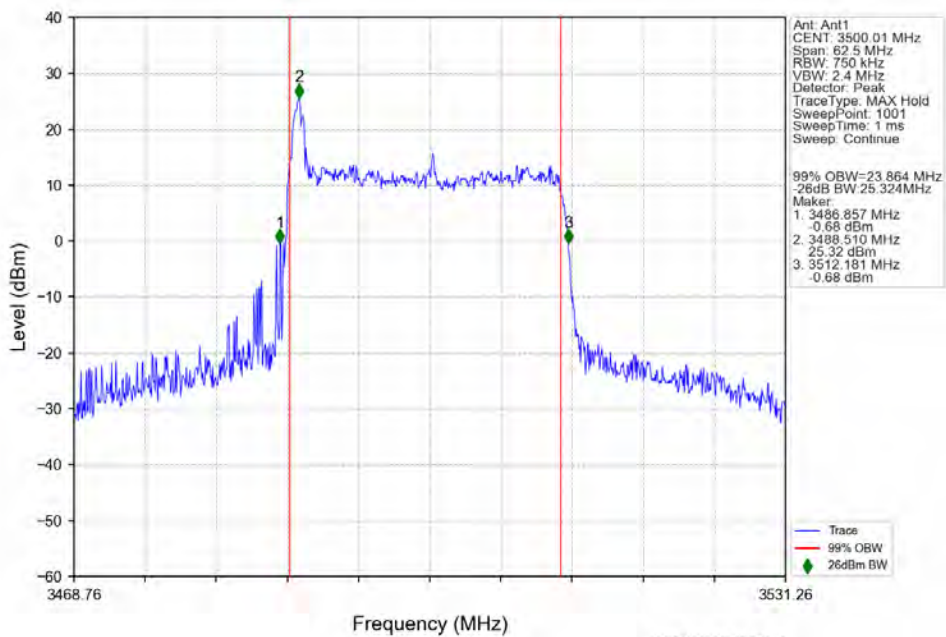
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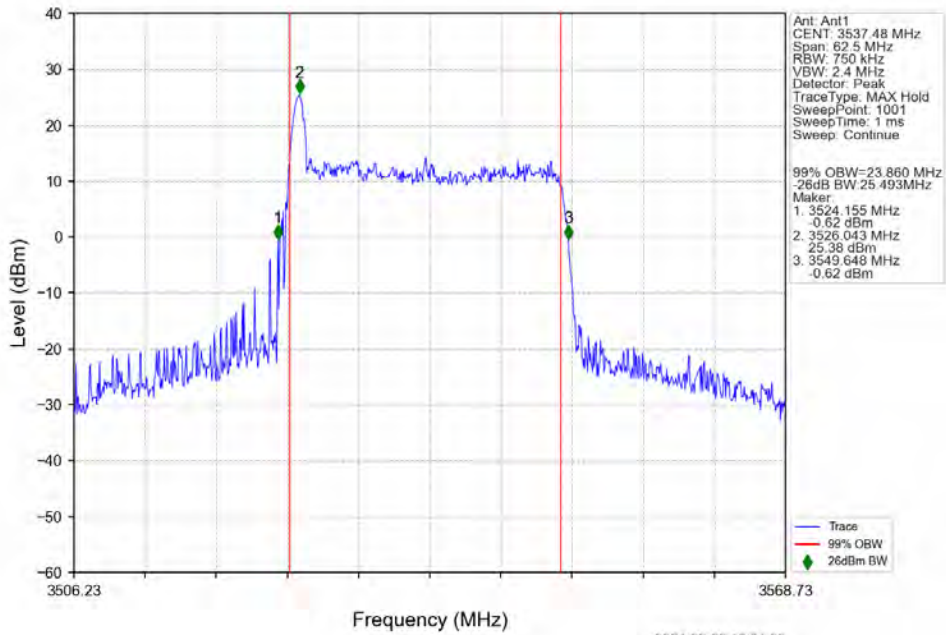
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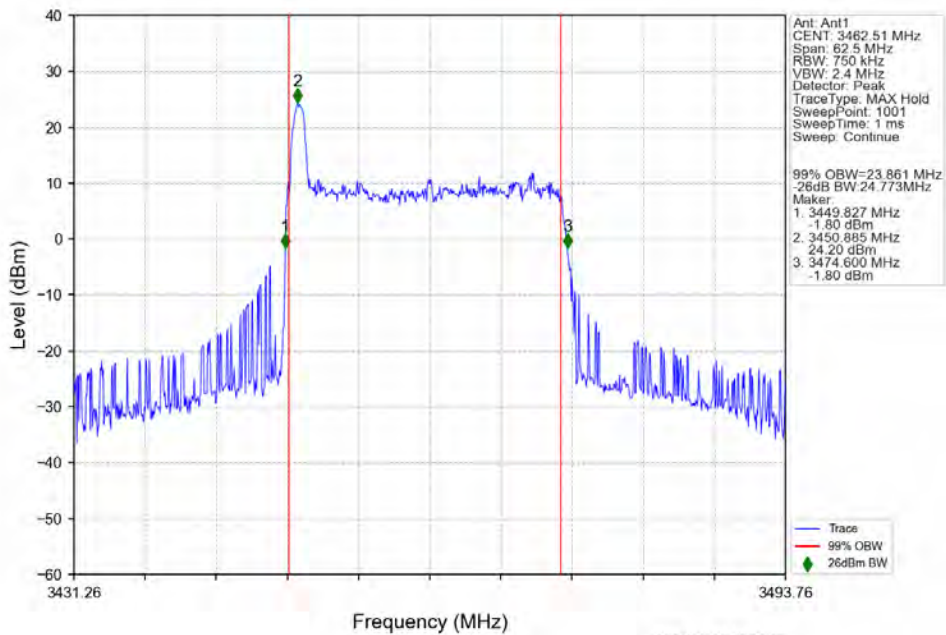
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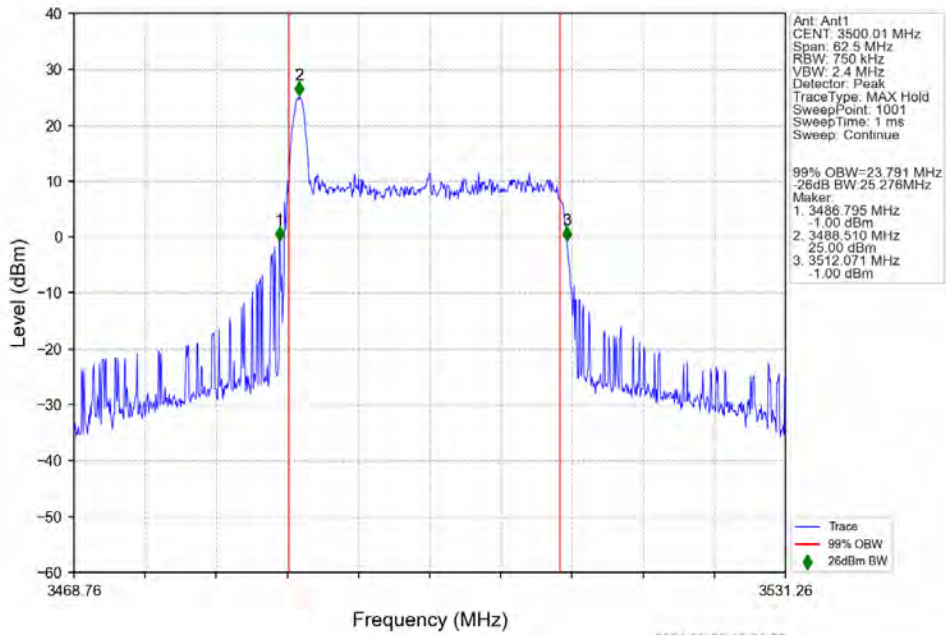
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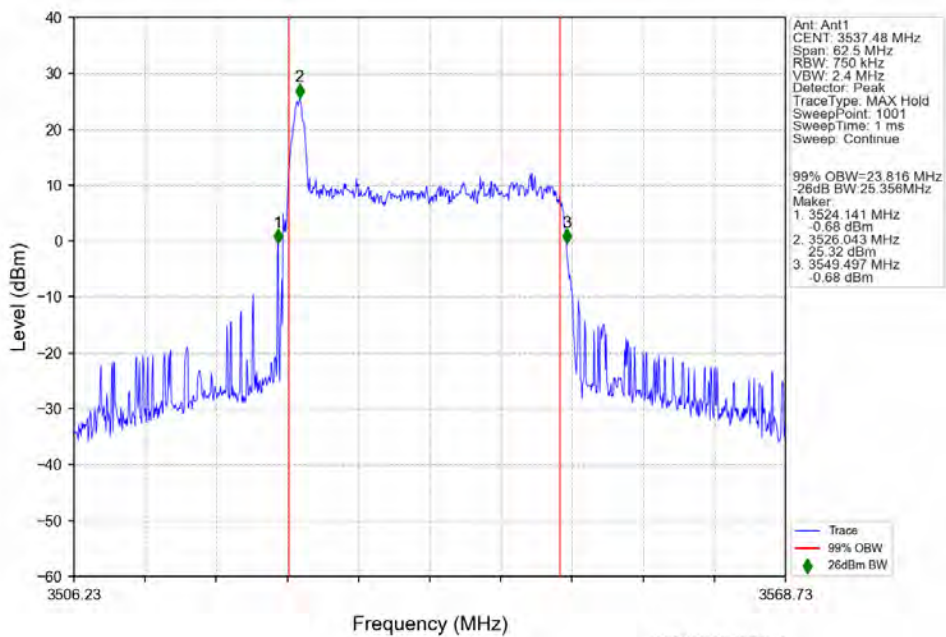
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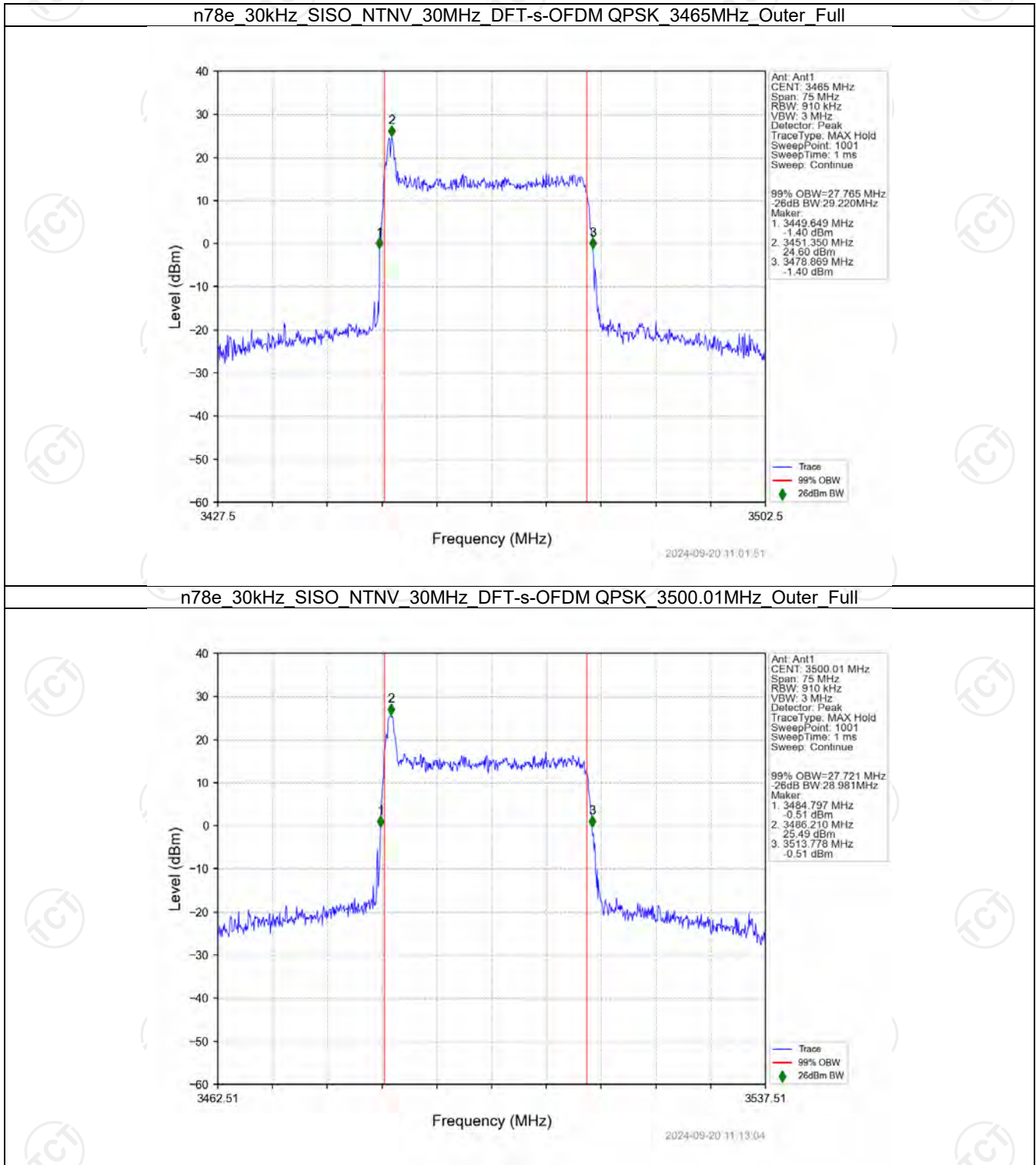
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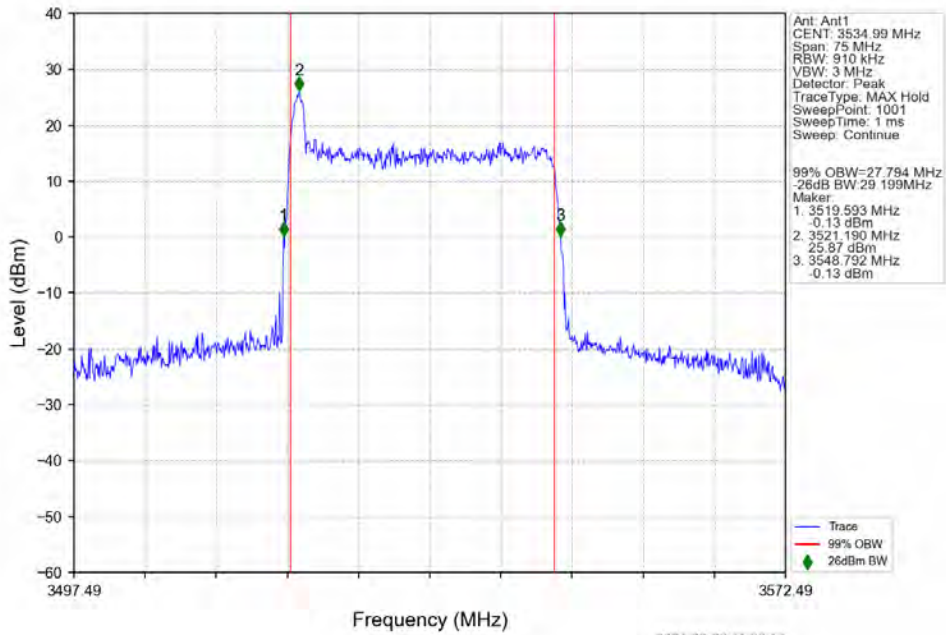
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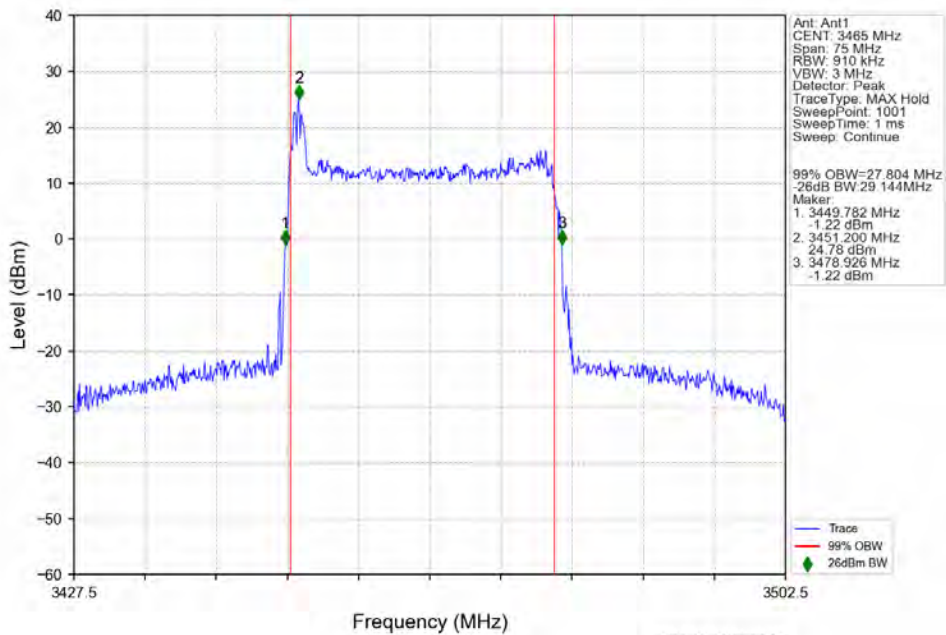
4.2.12 30k_SISO_30MHz_NTNV



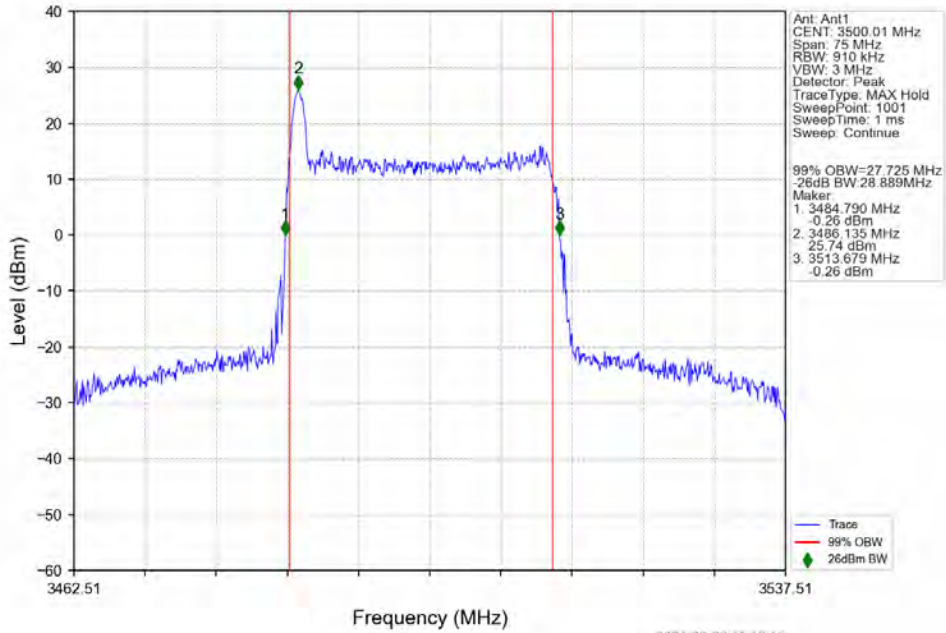
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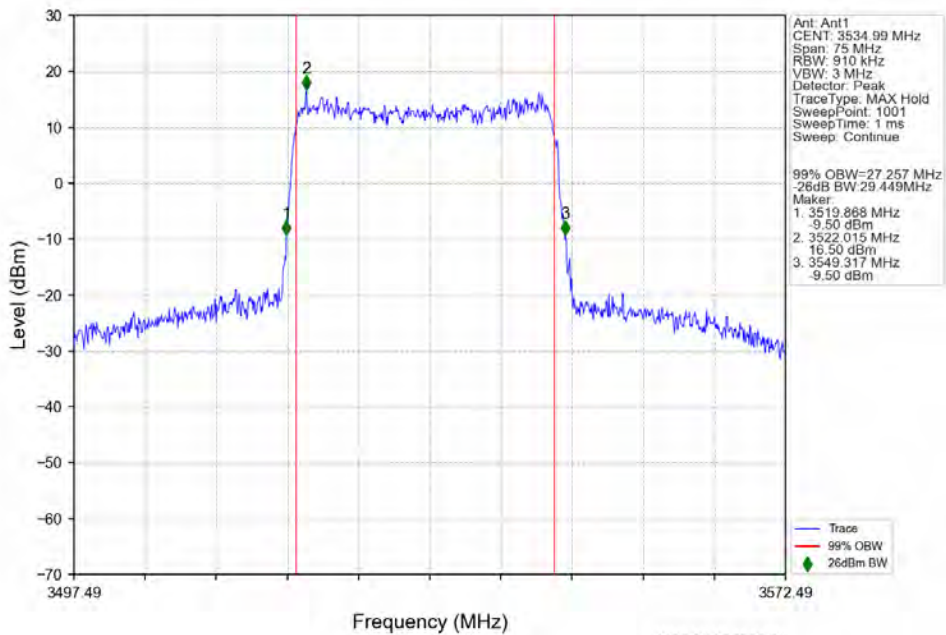
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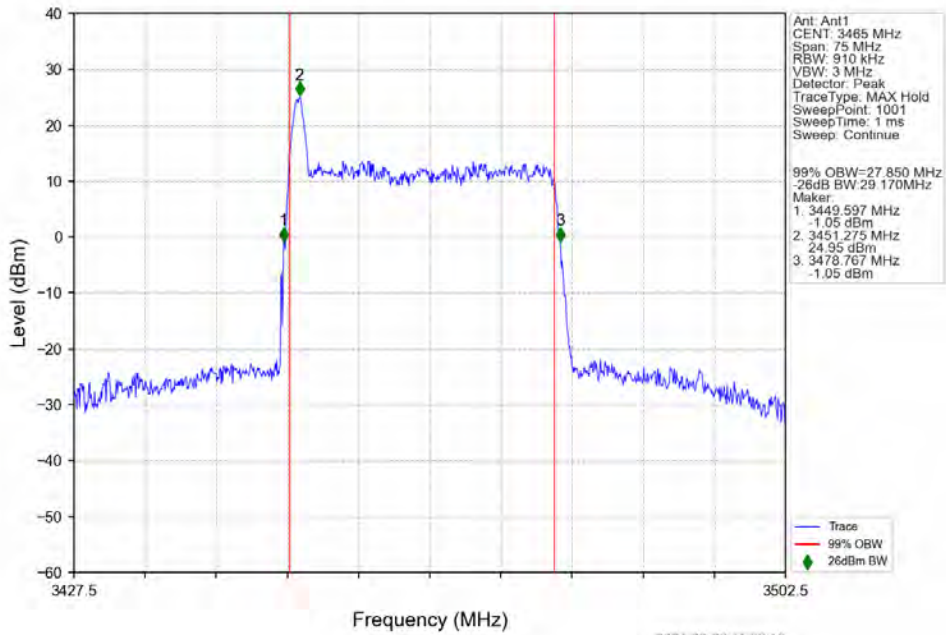
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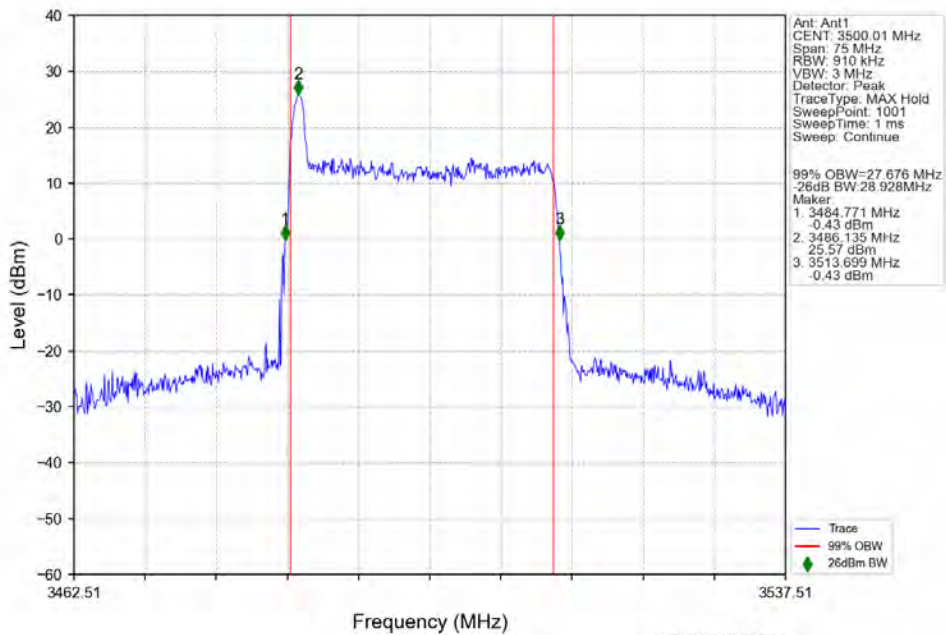
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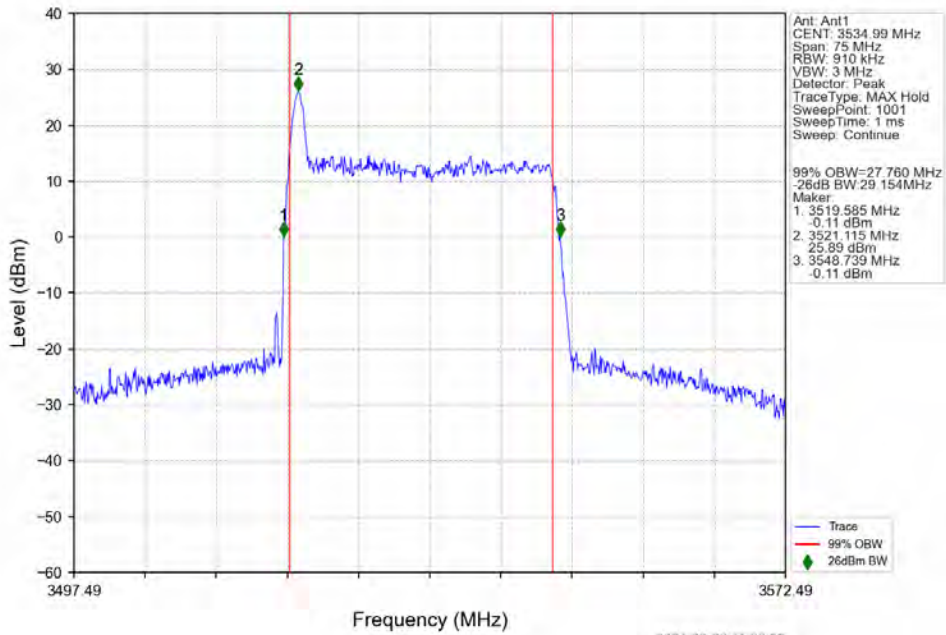
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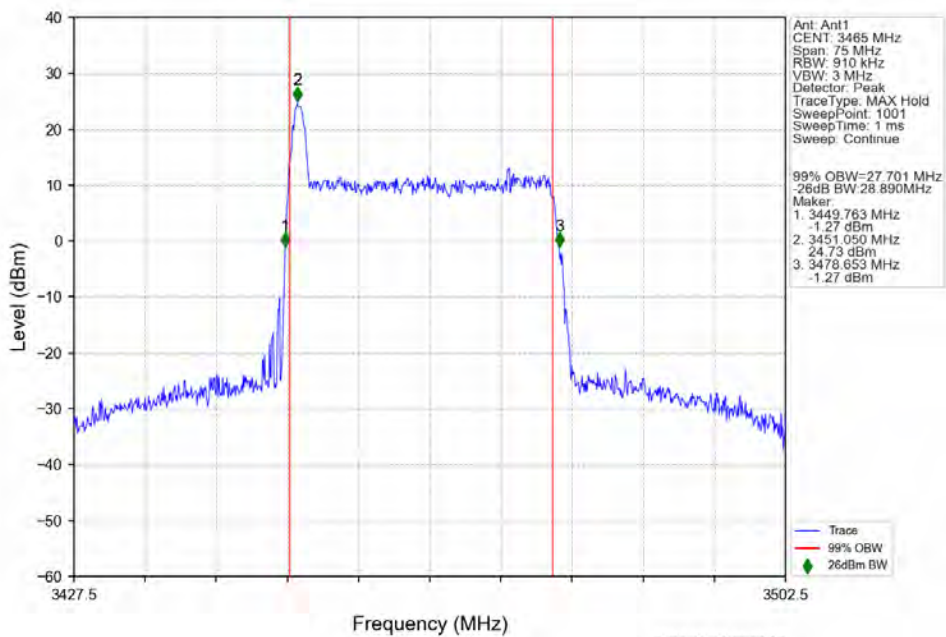
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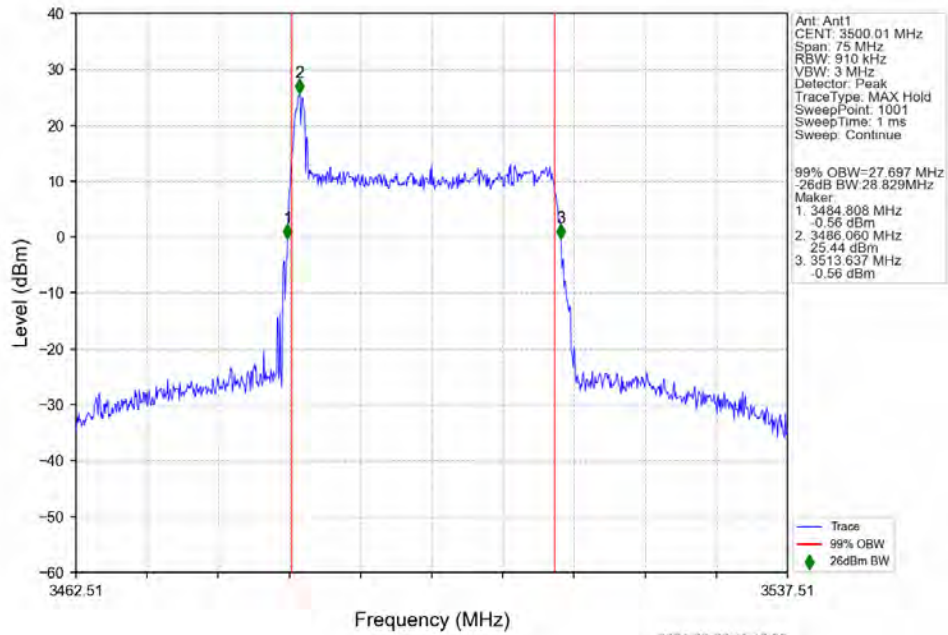
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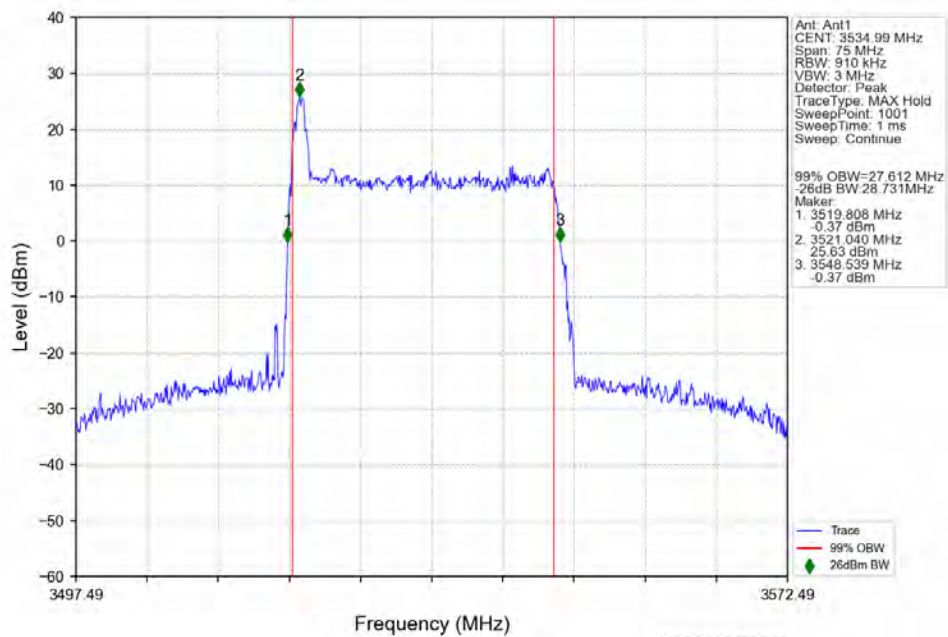
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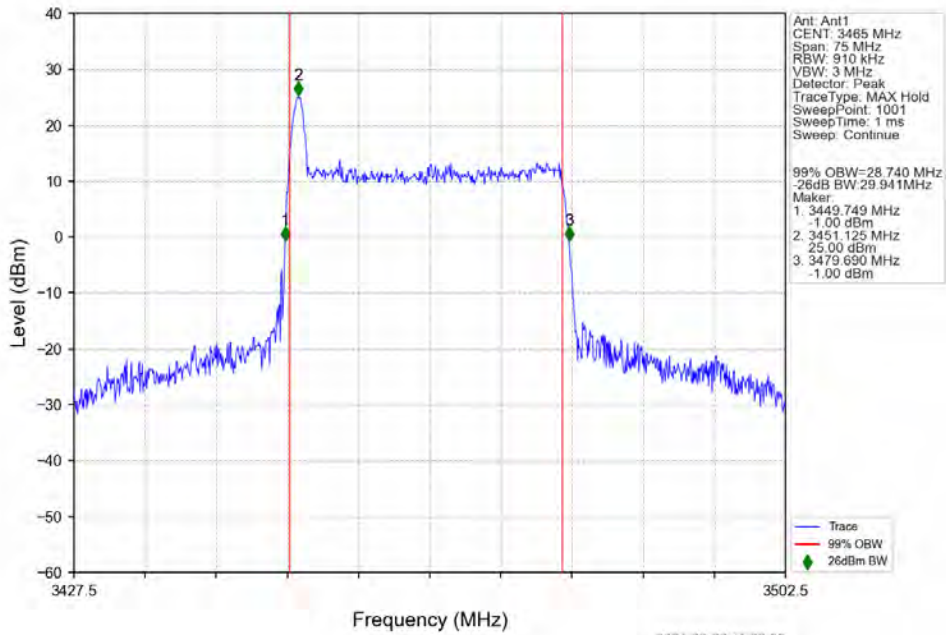
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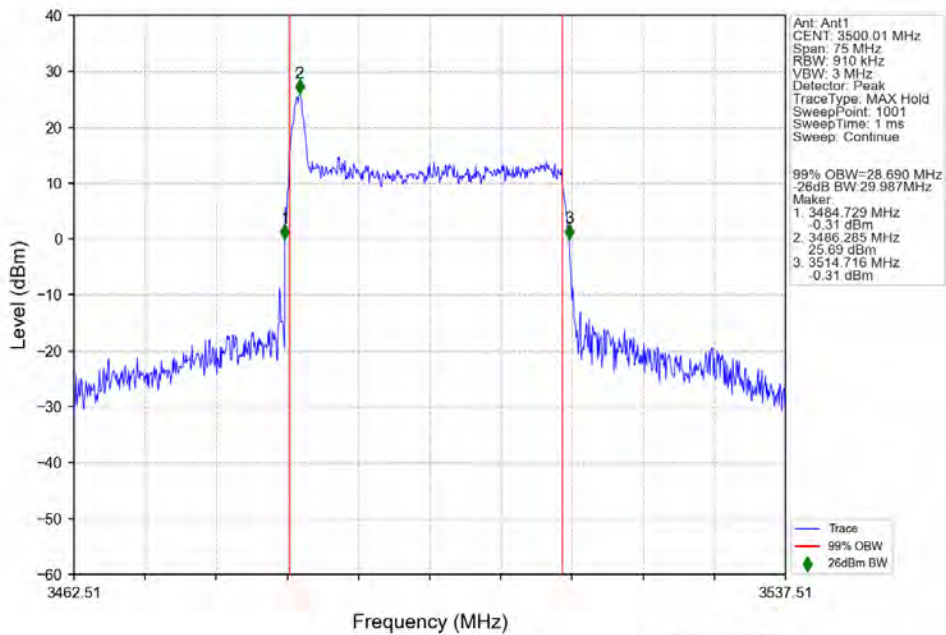
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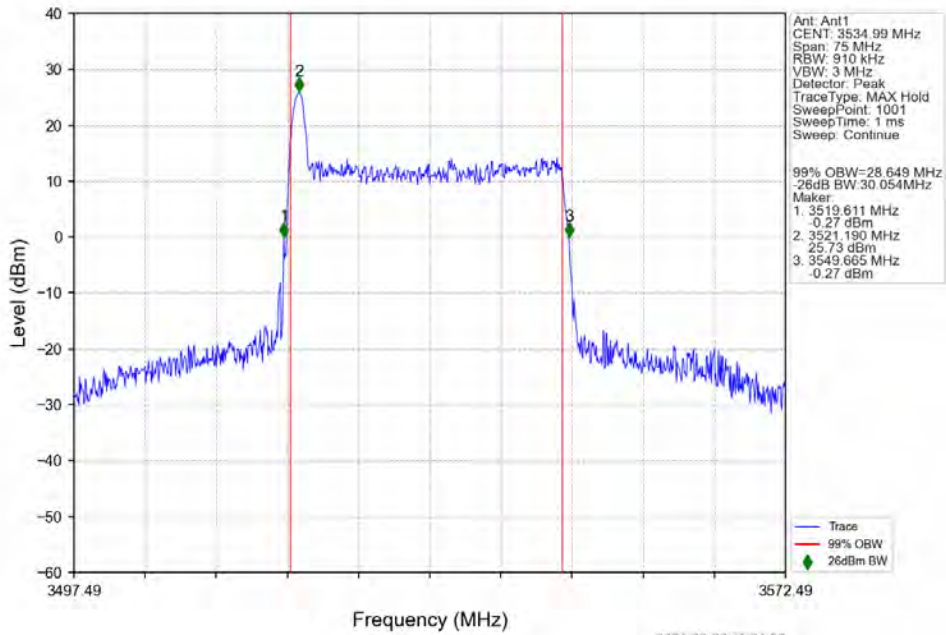
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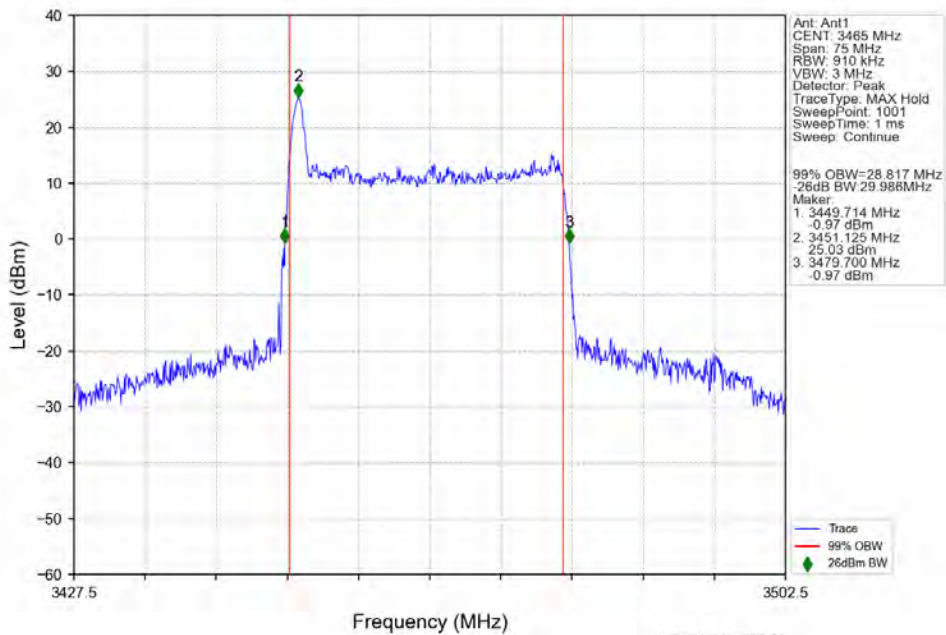
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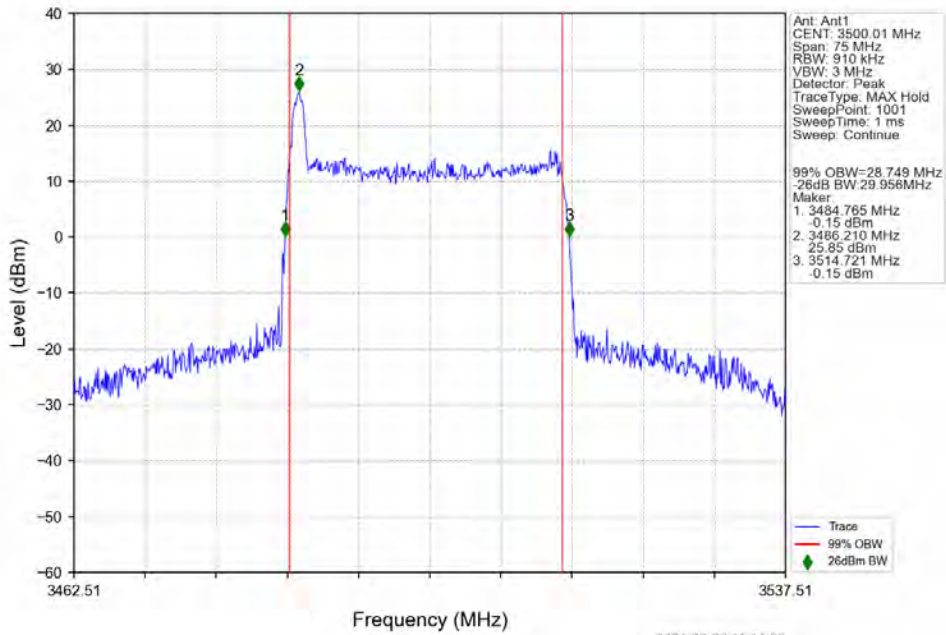
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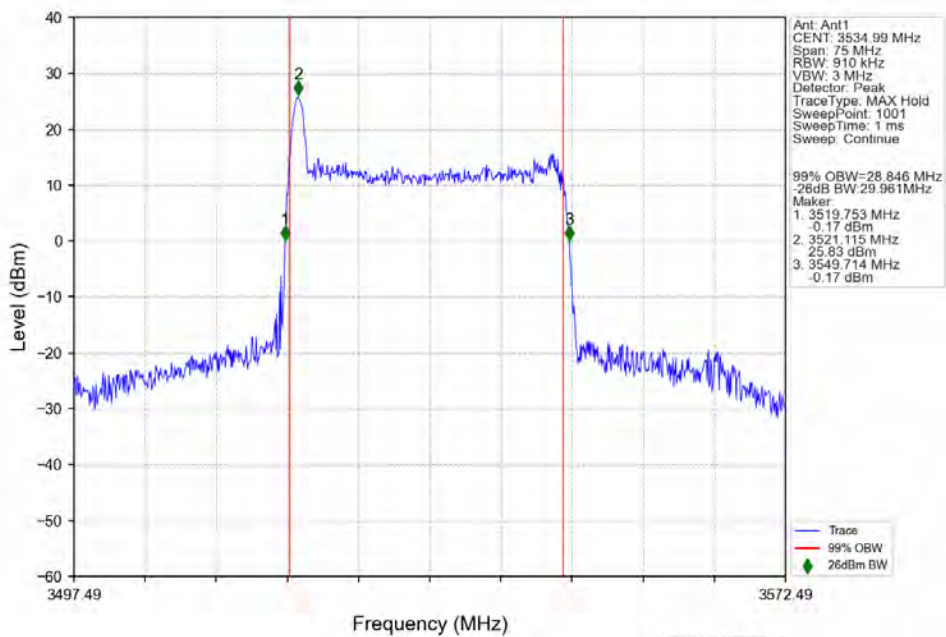
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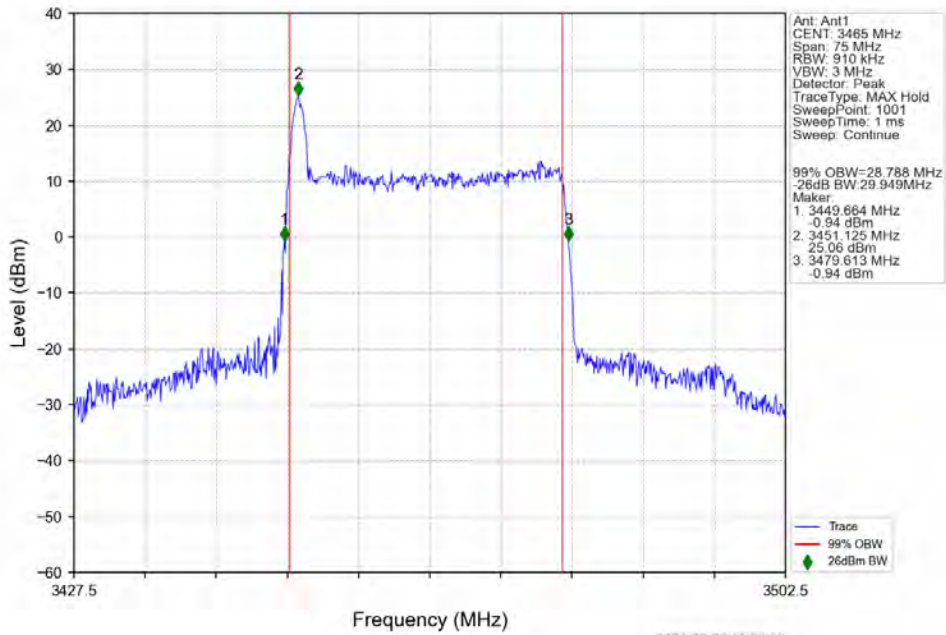
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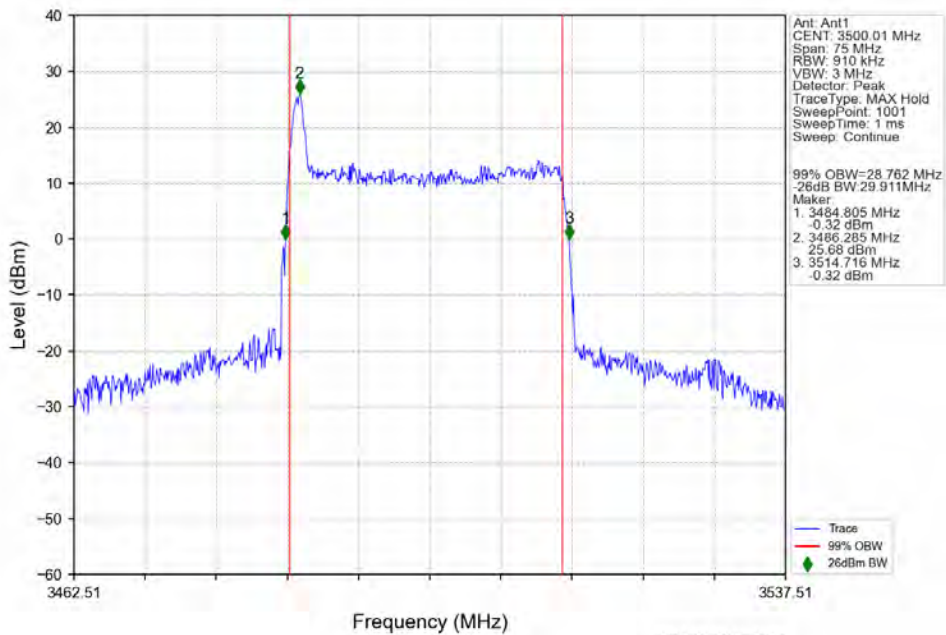
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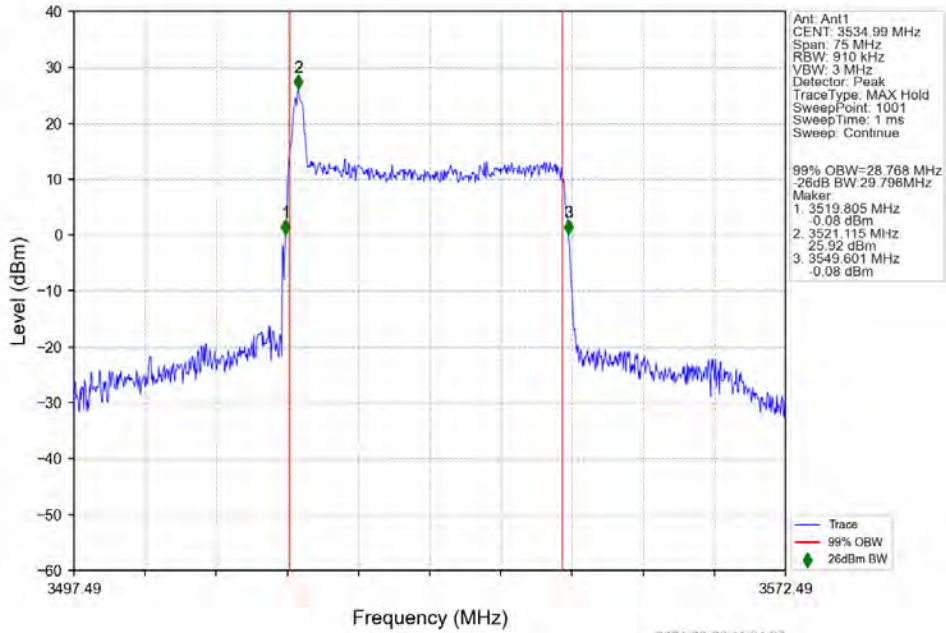
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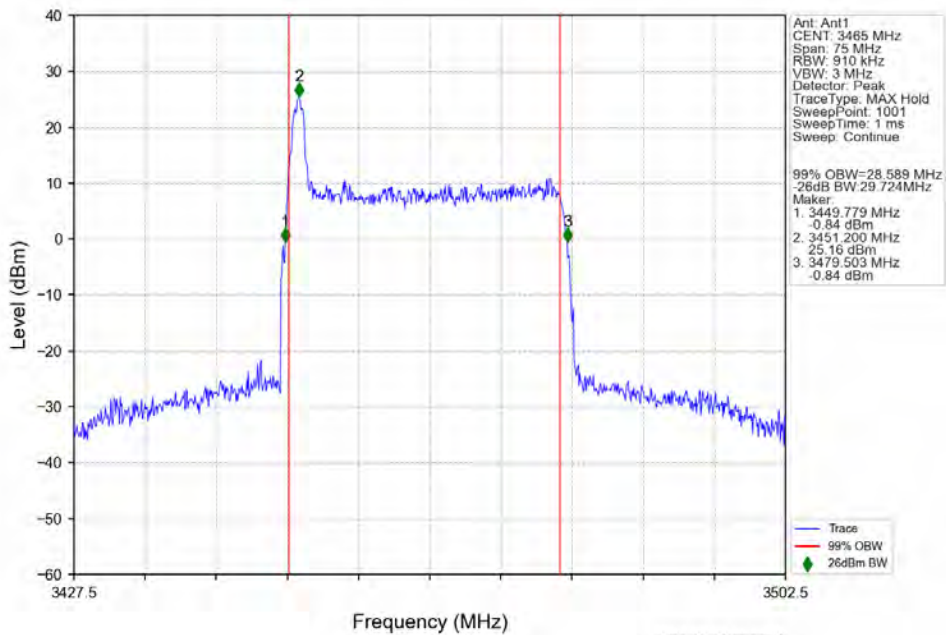
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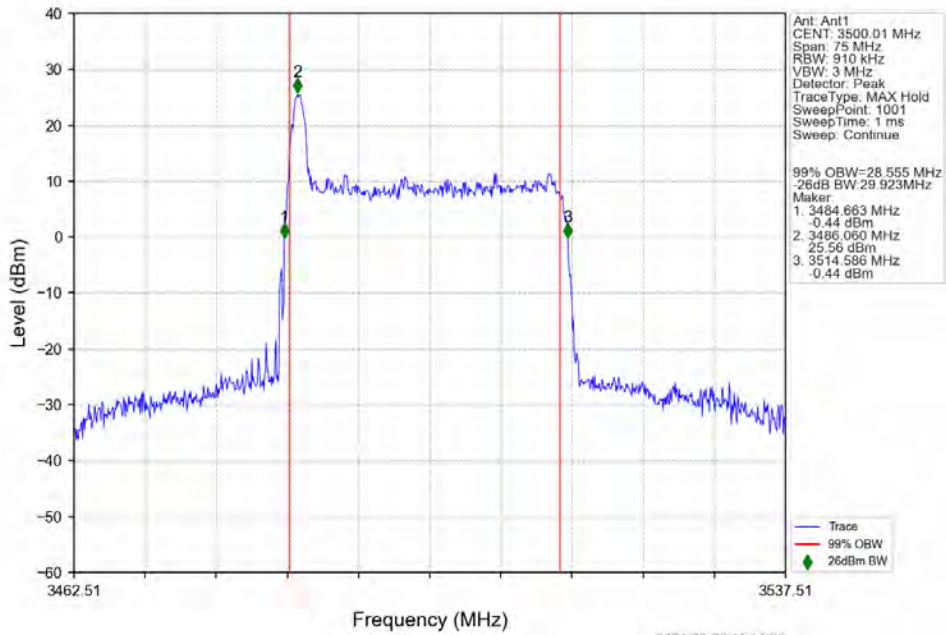
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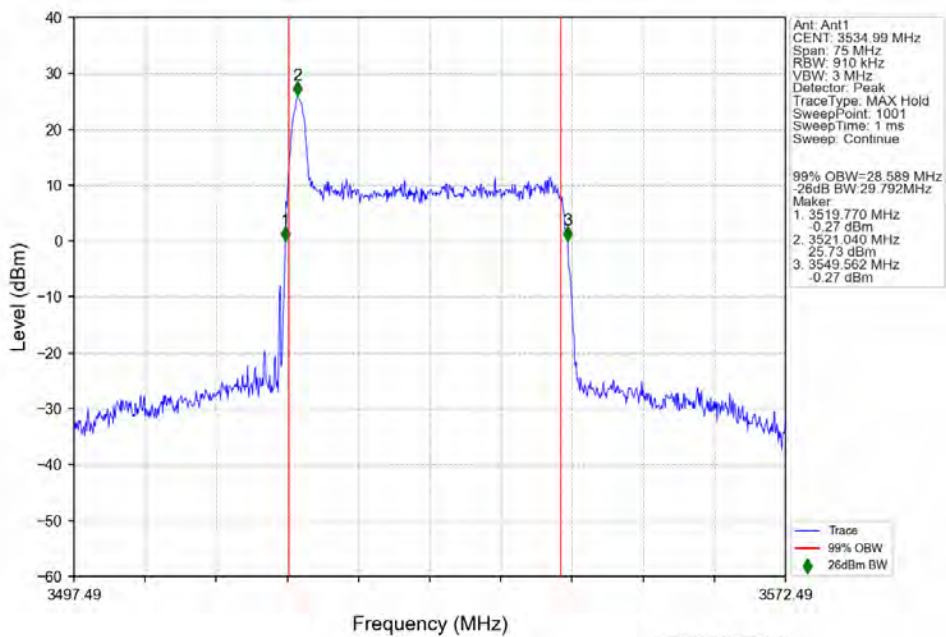
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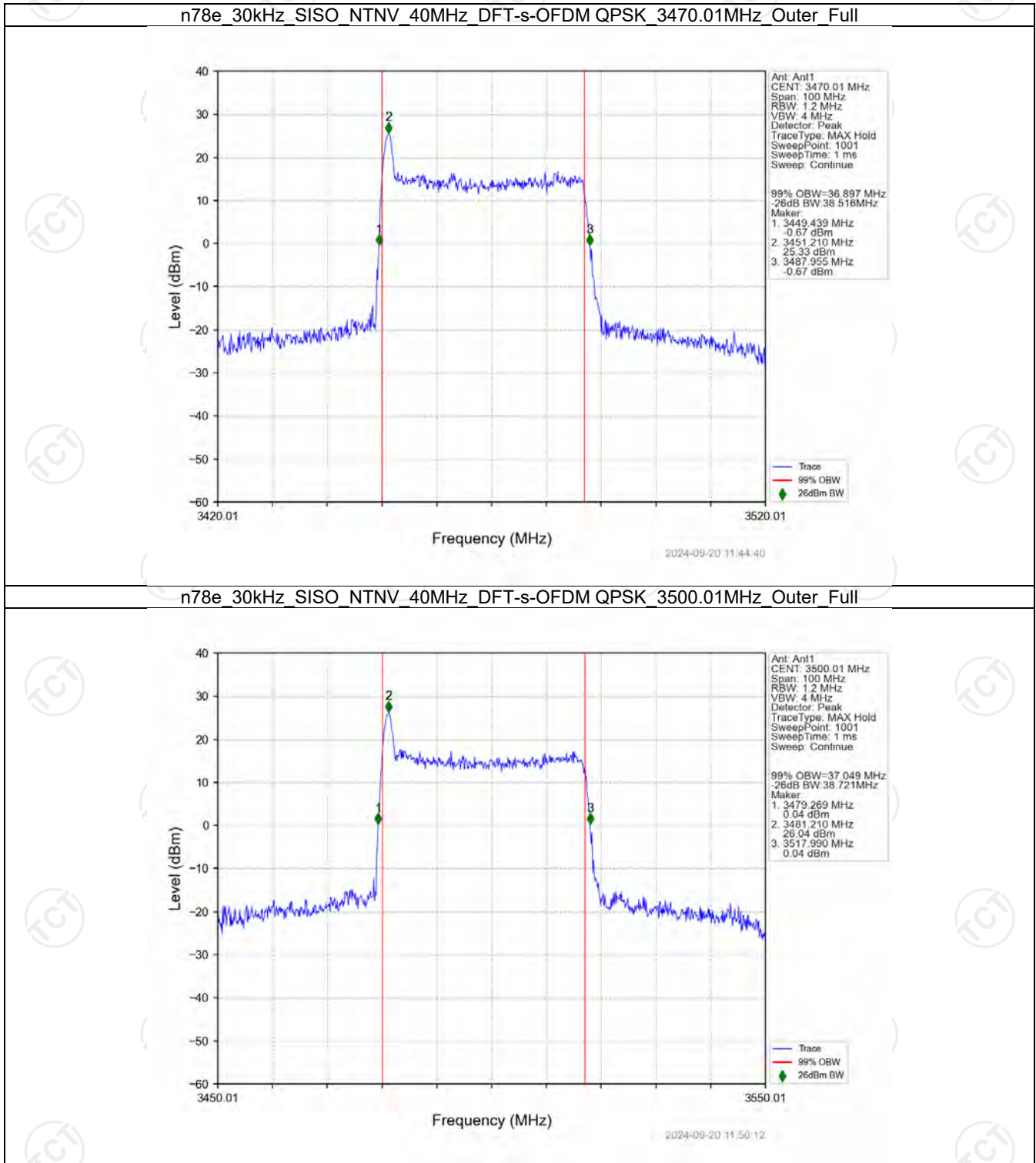
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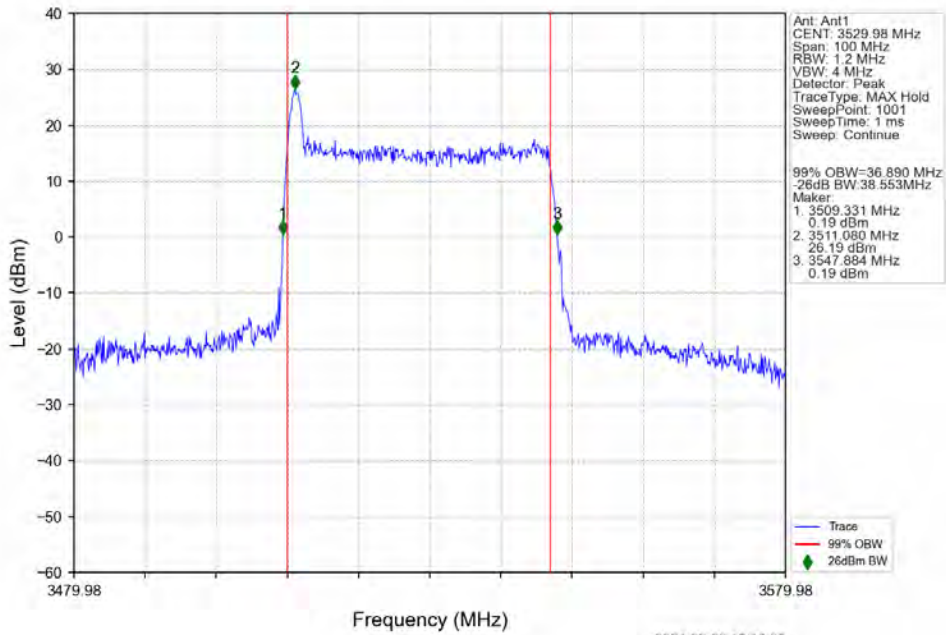
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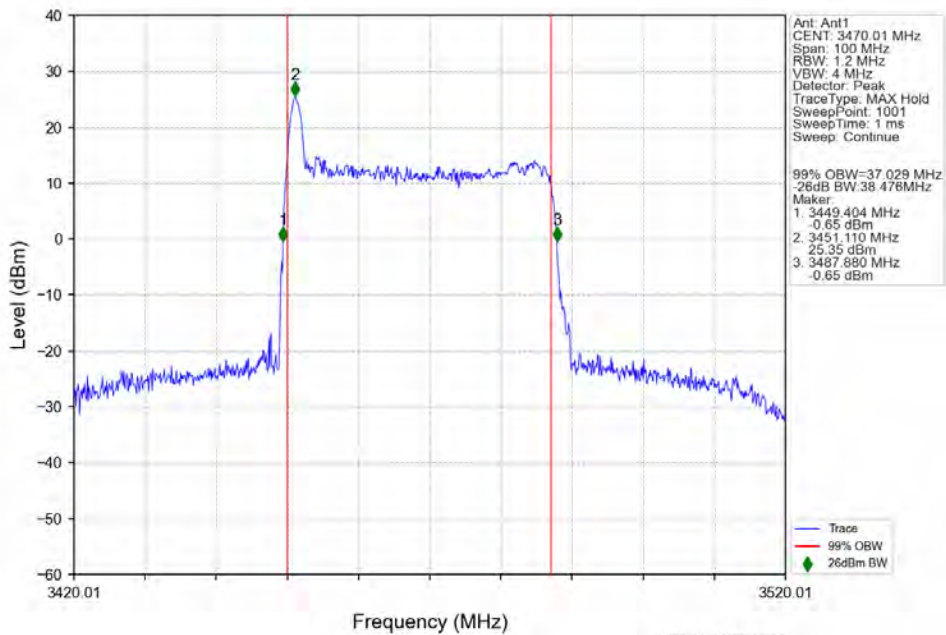
4.2.13 30k_SISO_40MHz_NTNV



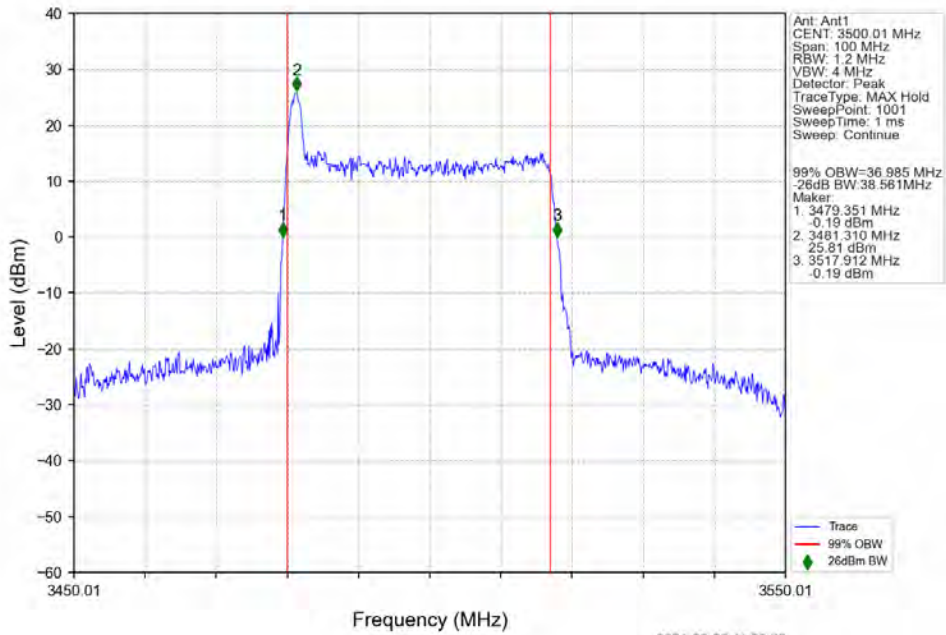
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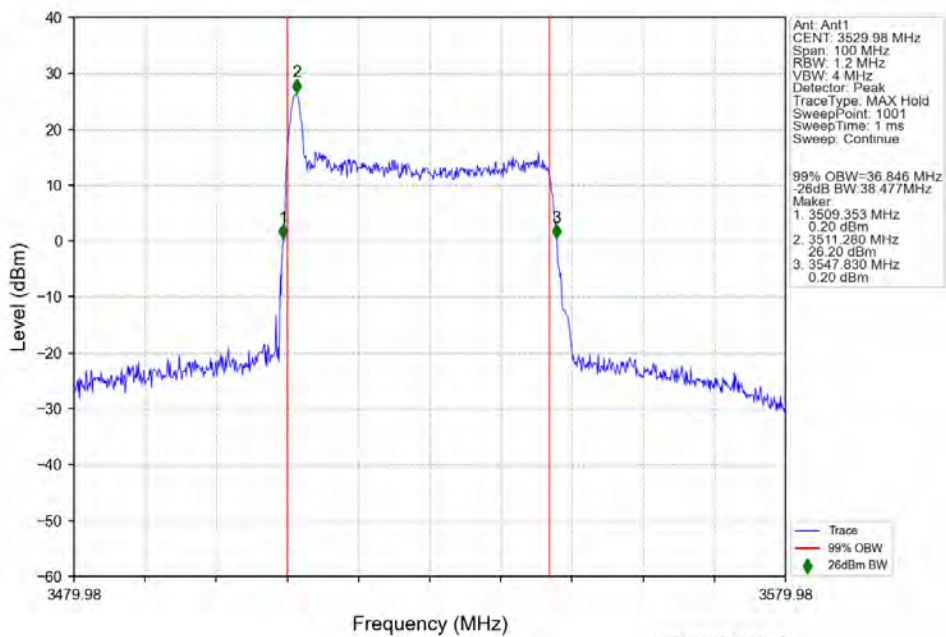
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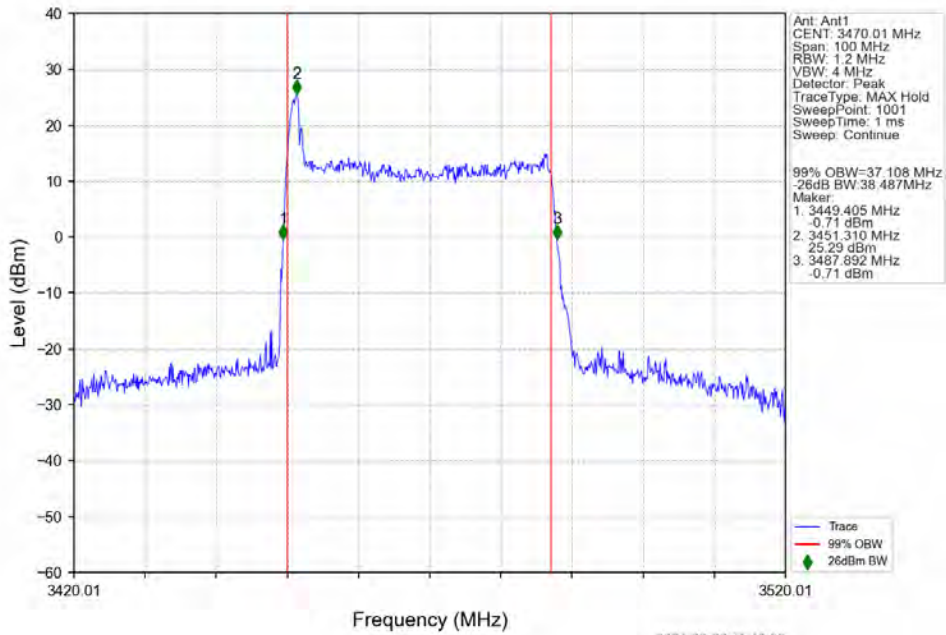
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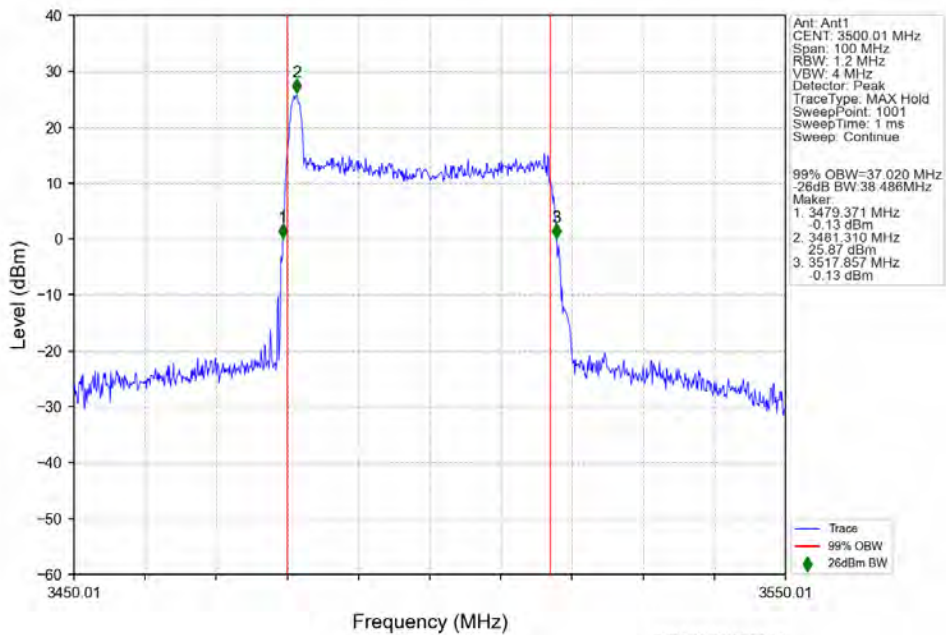
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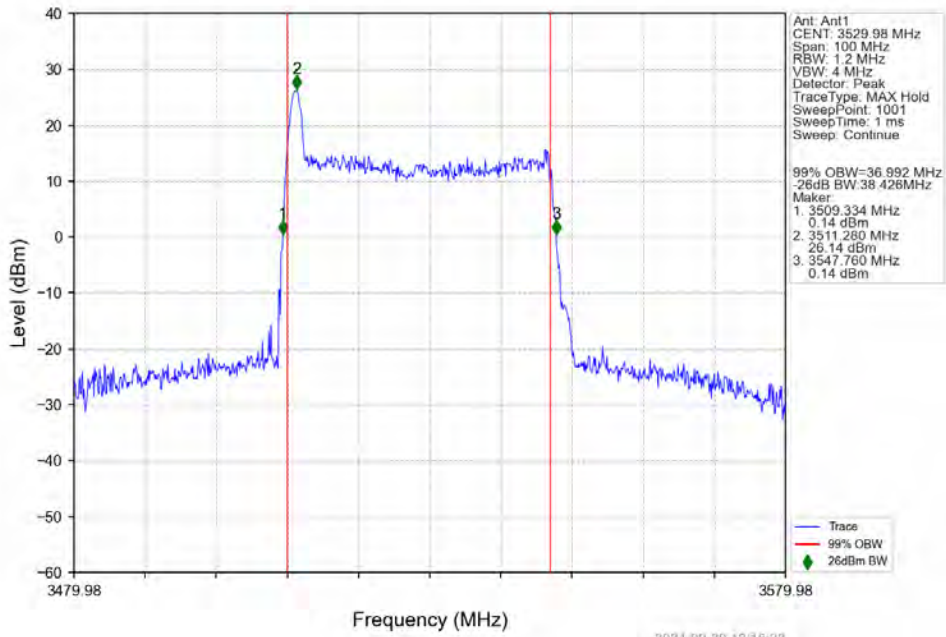
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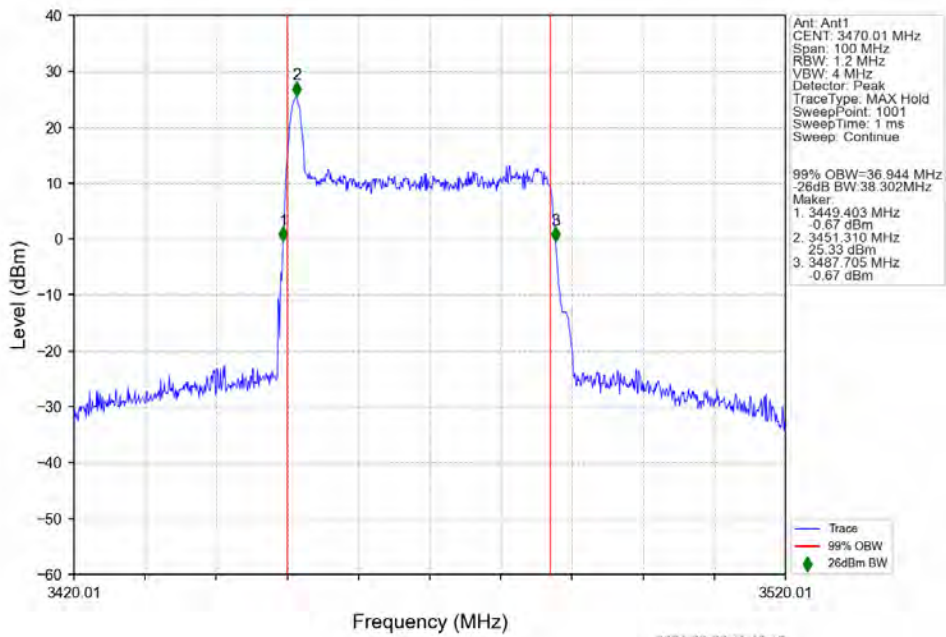
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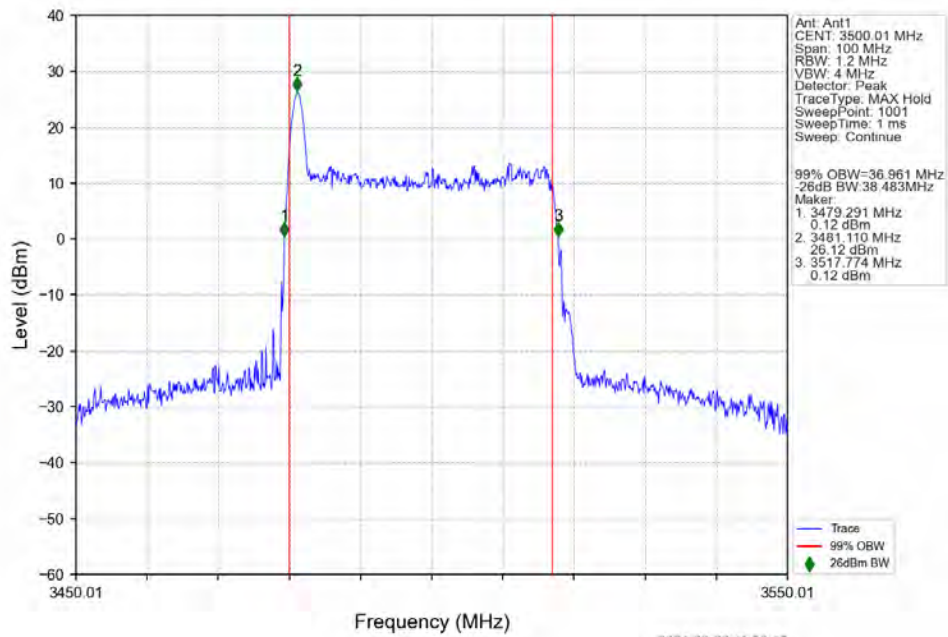
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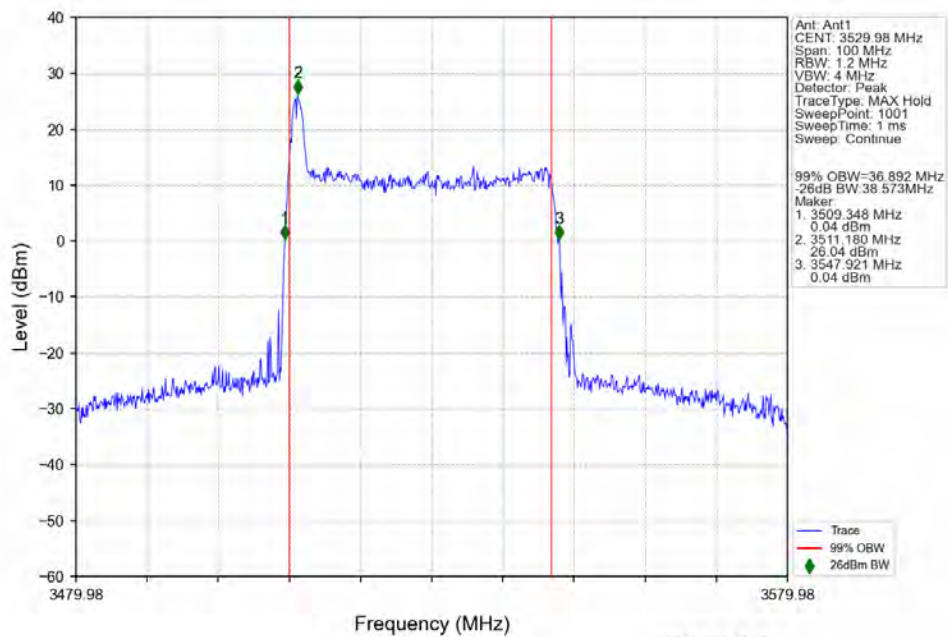
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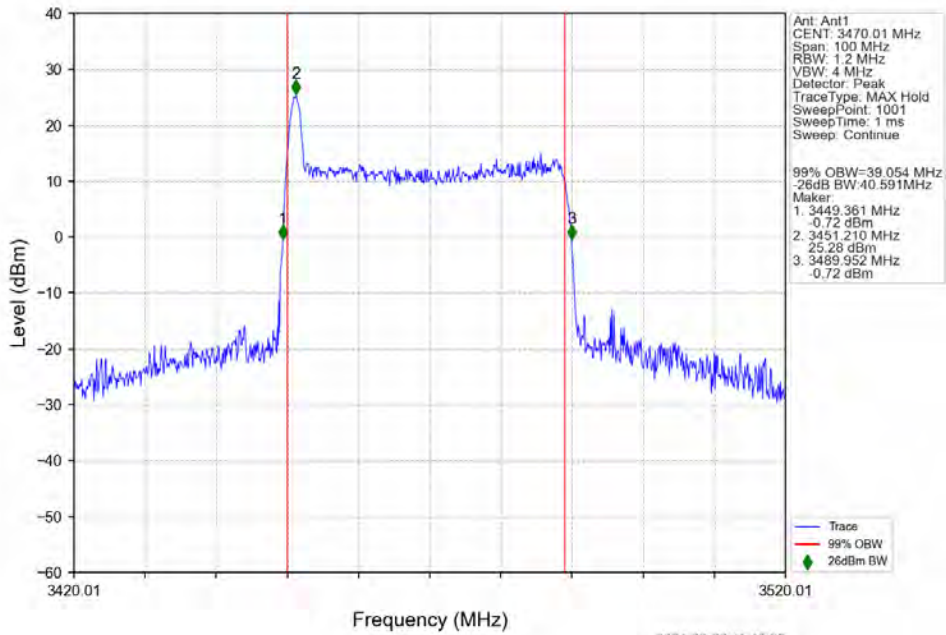
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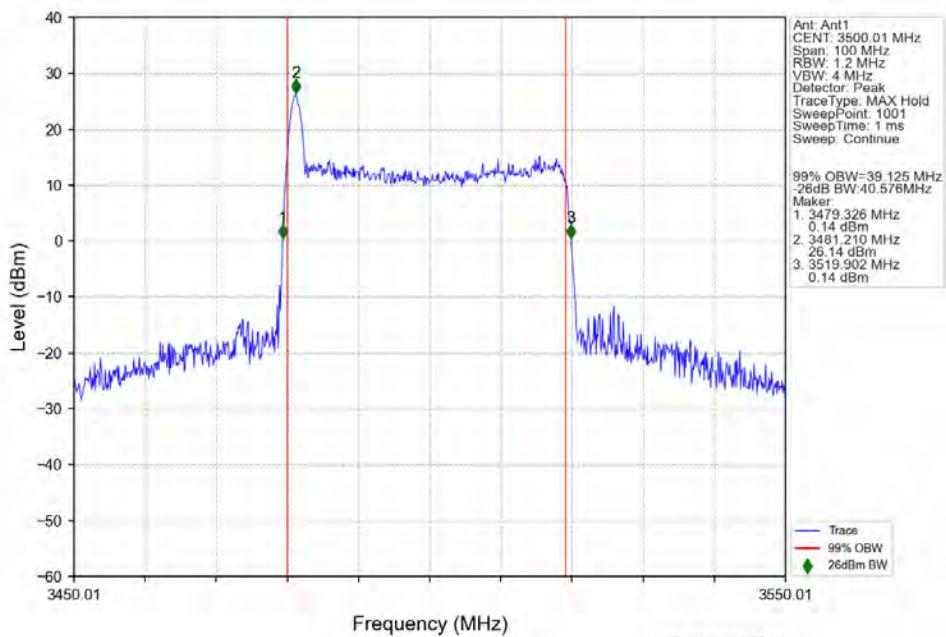
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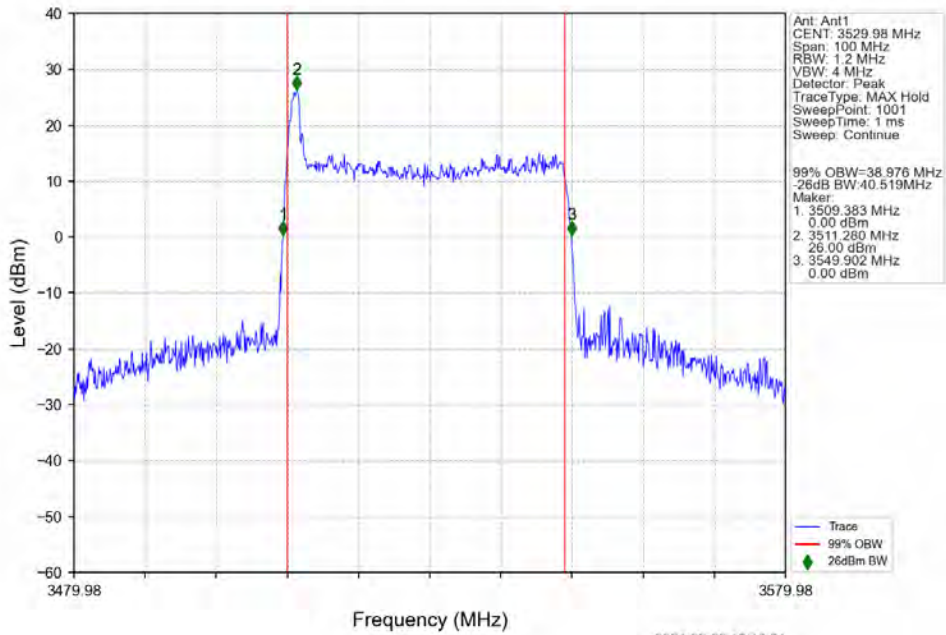
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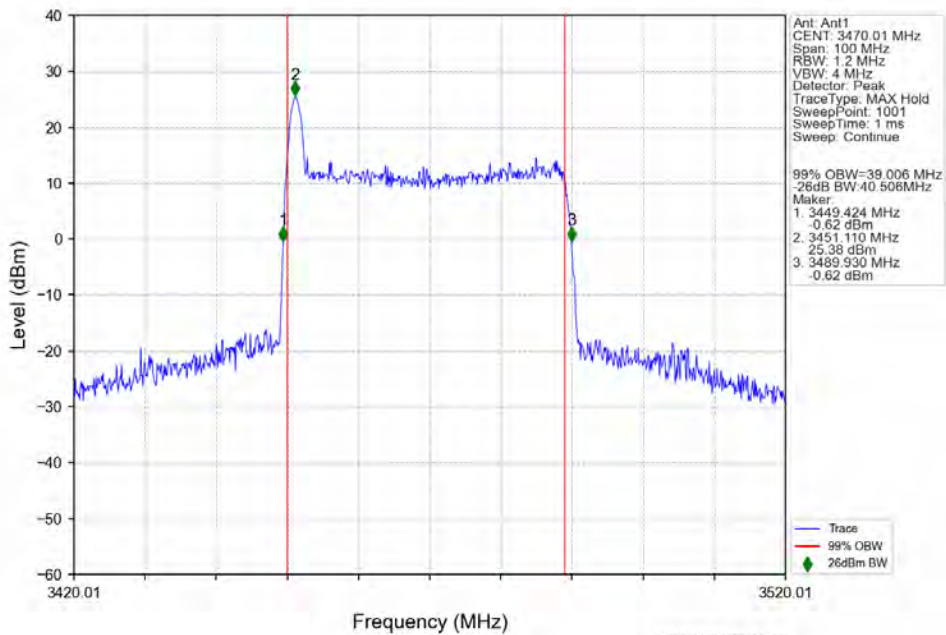
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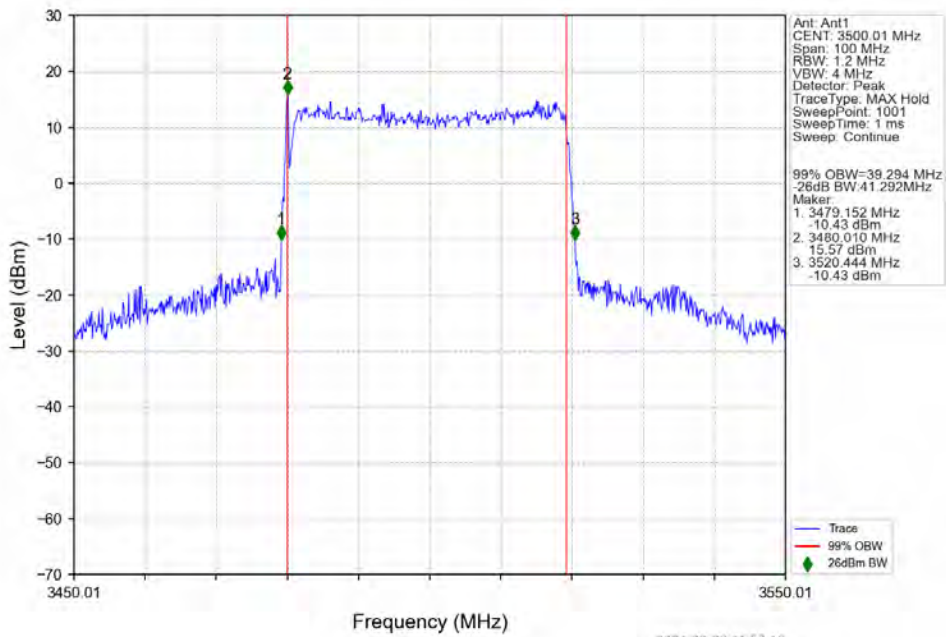
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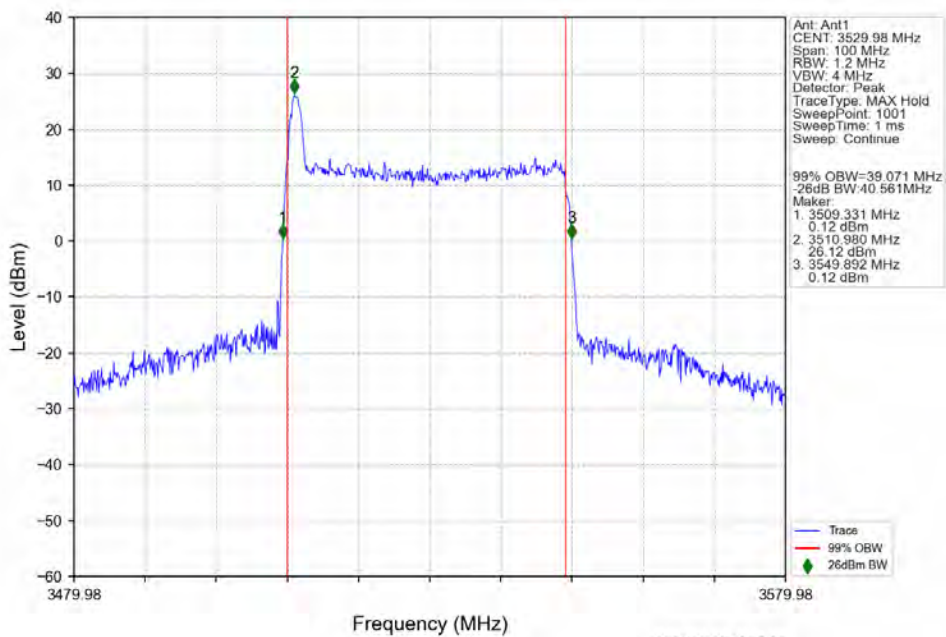
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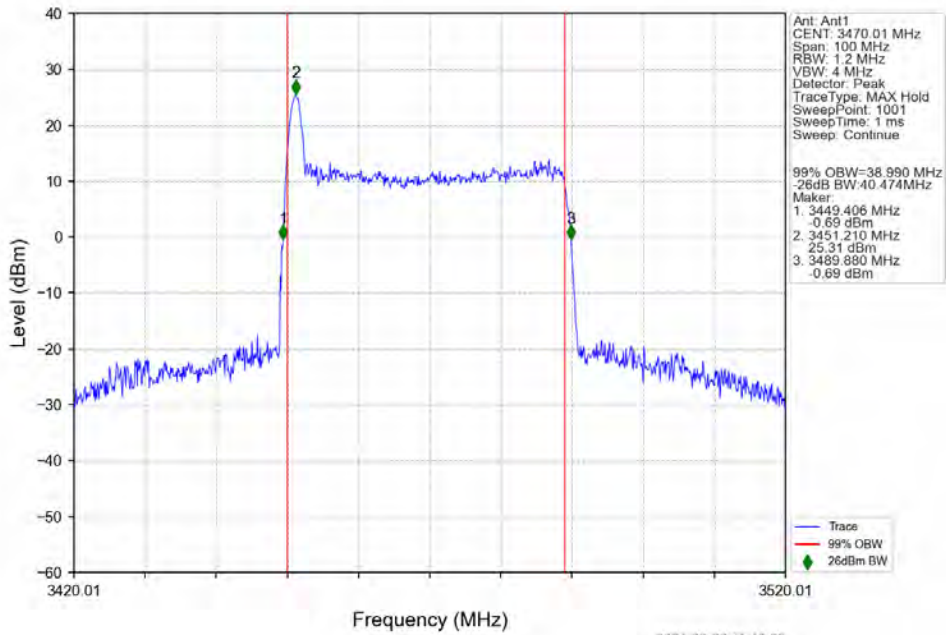
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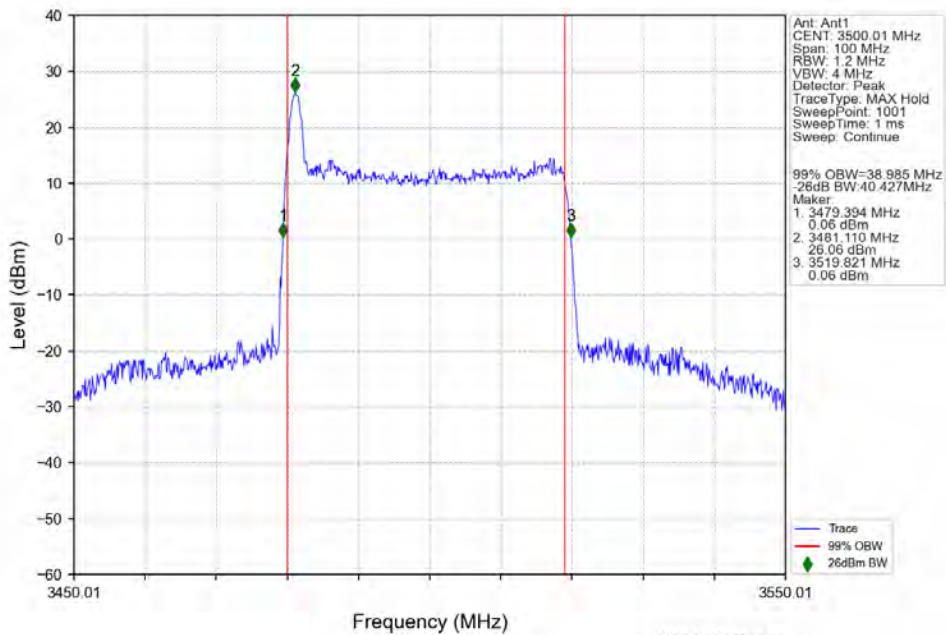
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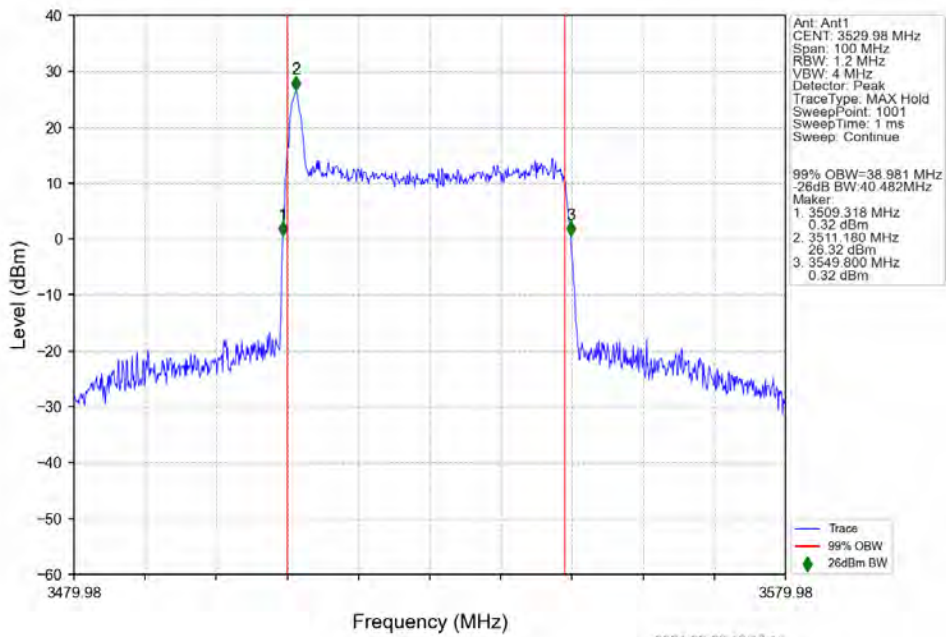
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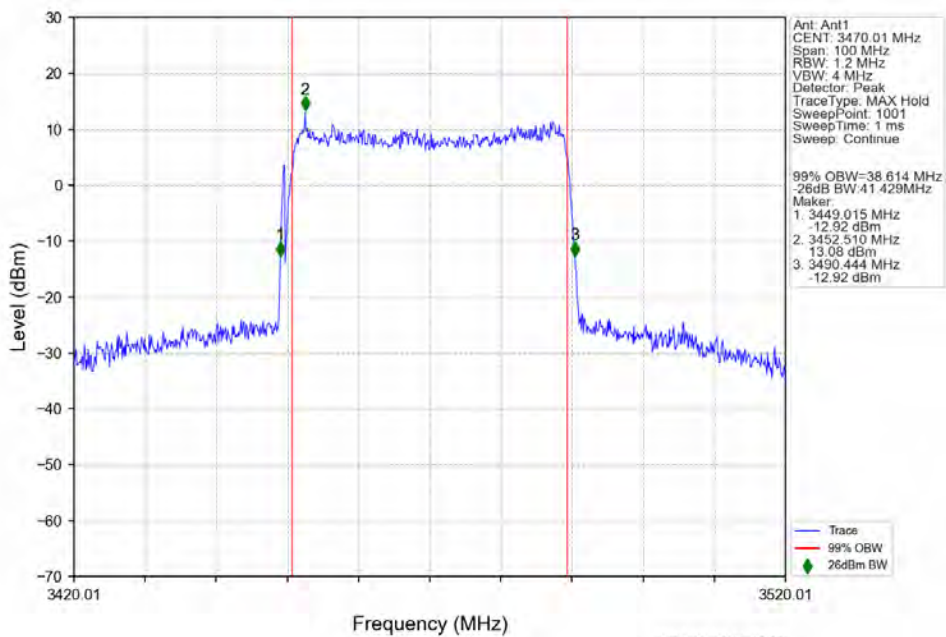
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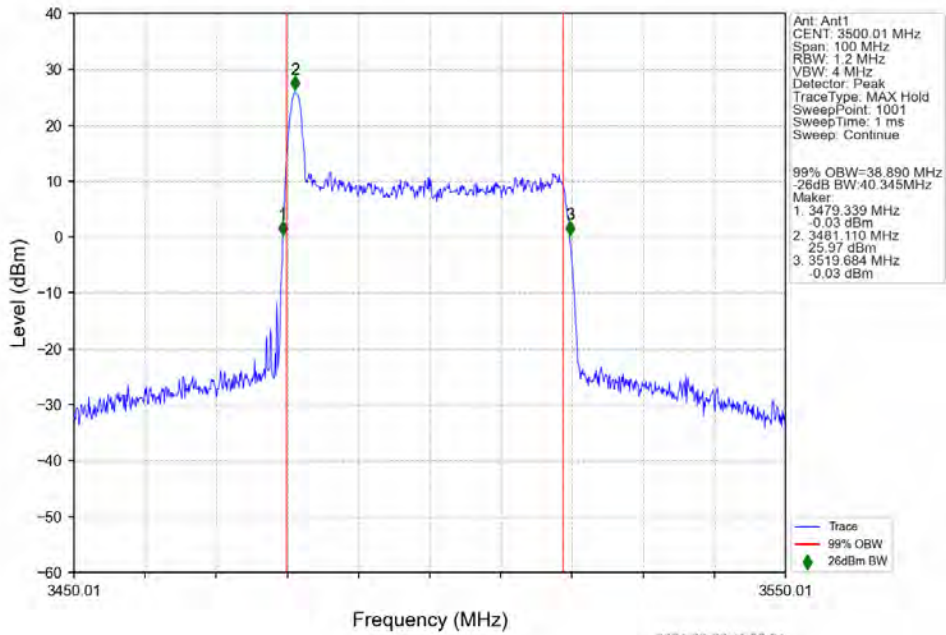
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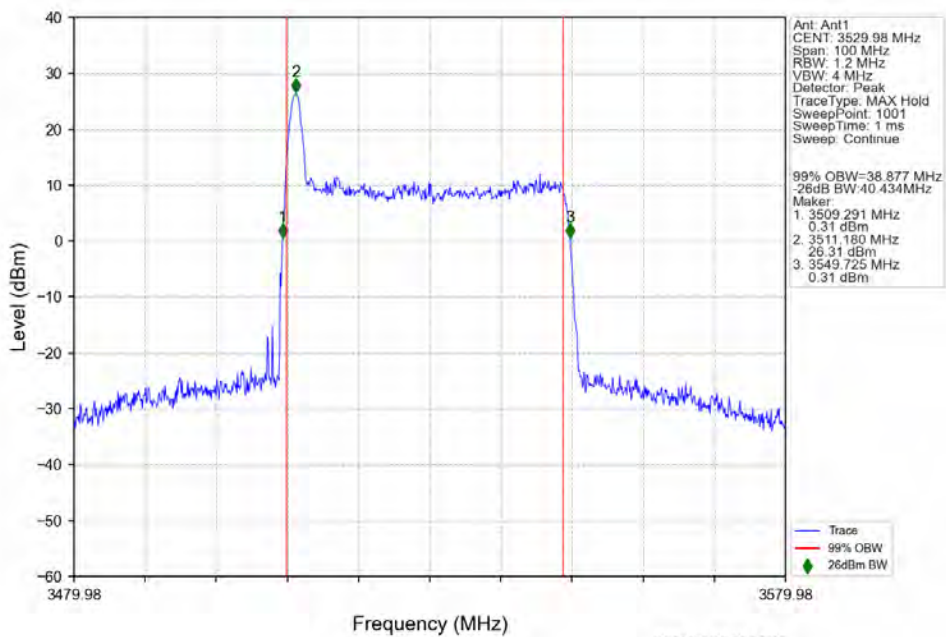
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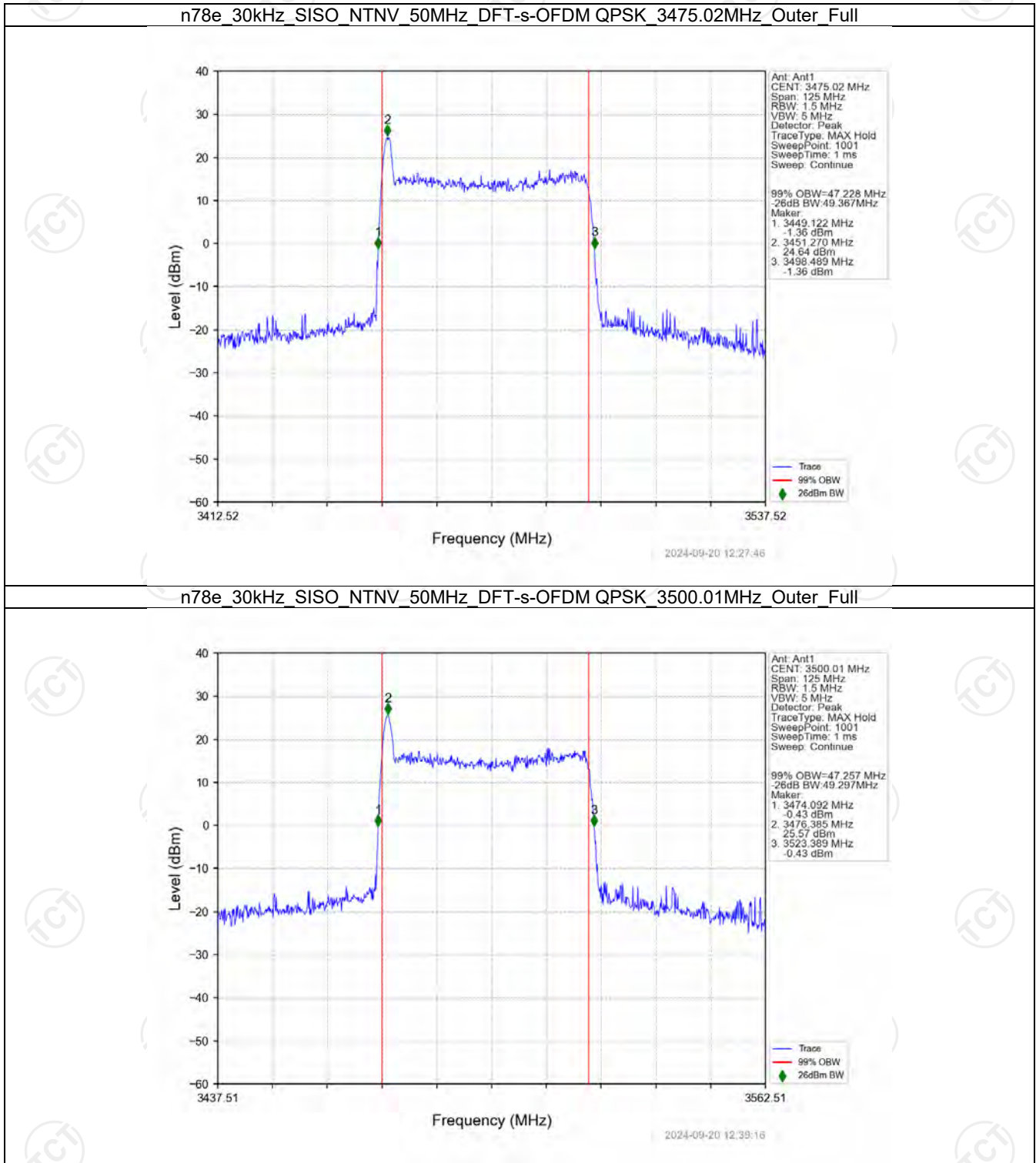
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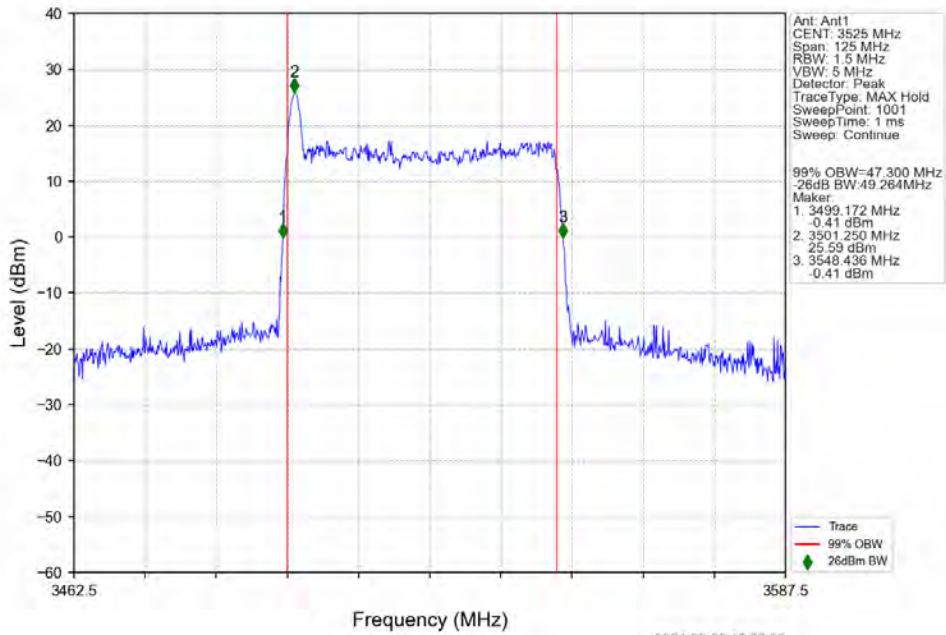
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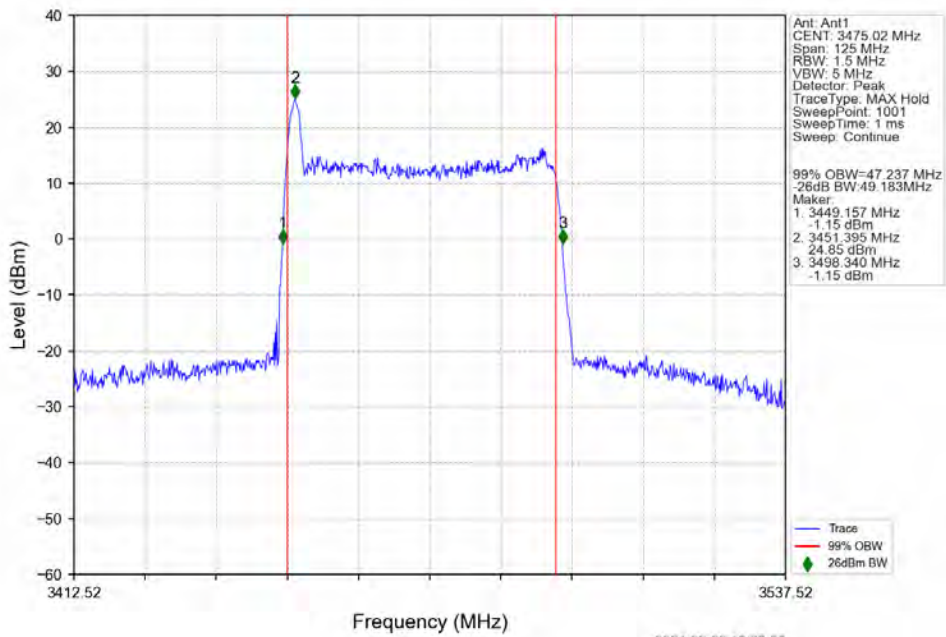
4.2.14 30k_SISO_50MHz_NTNV



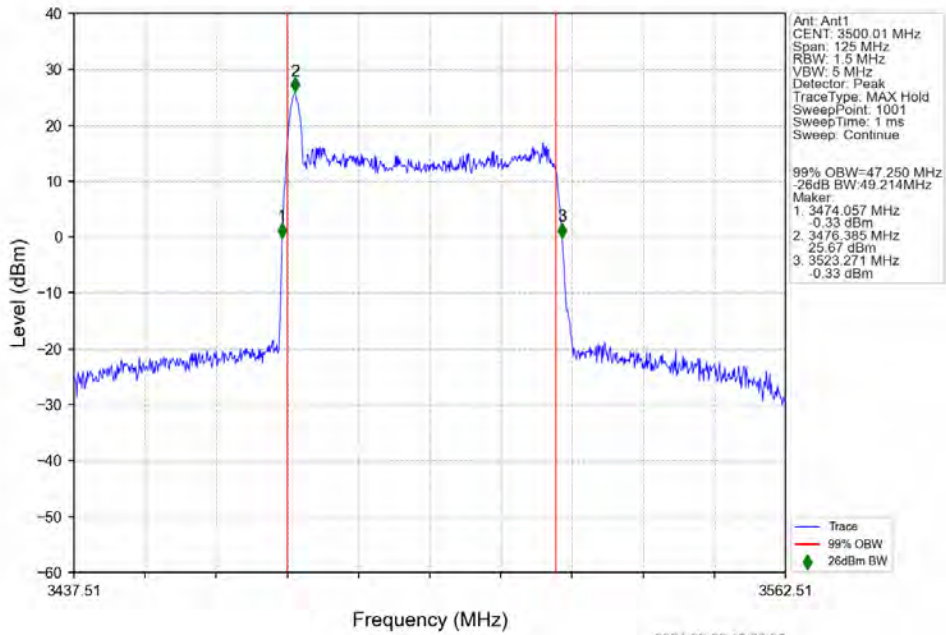
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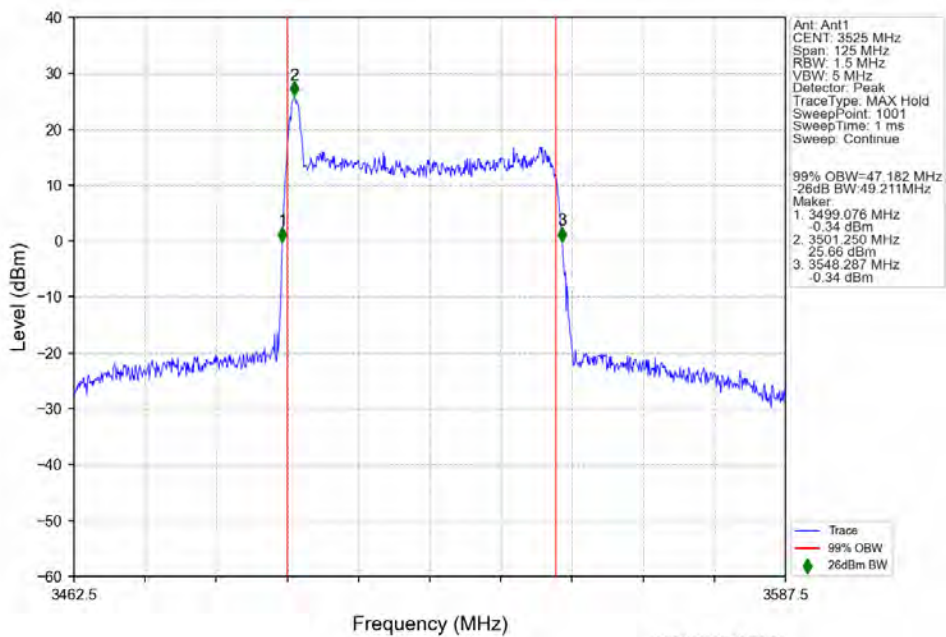
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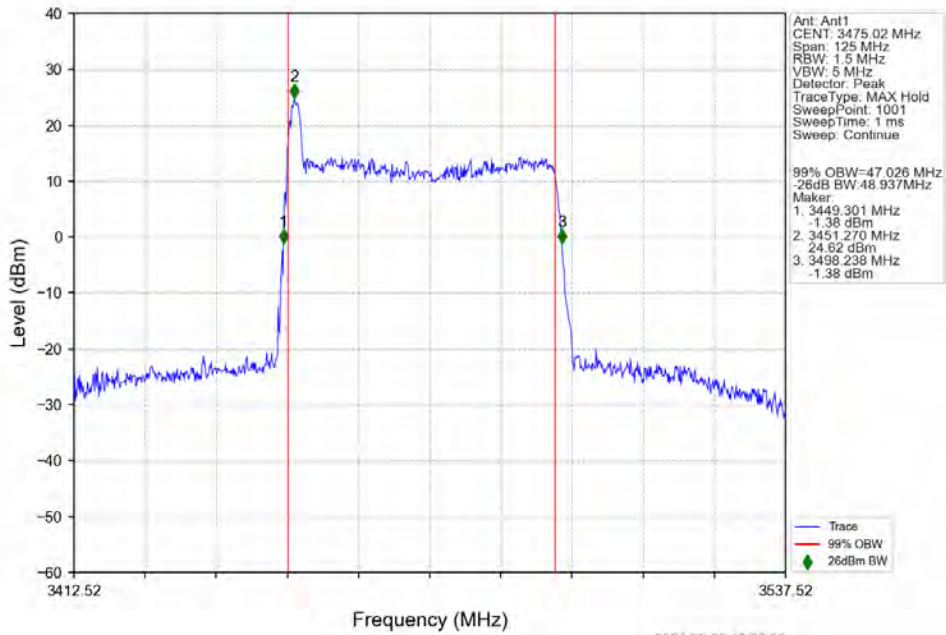
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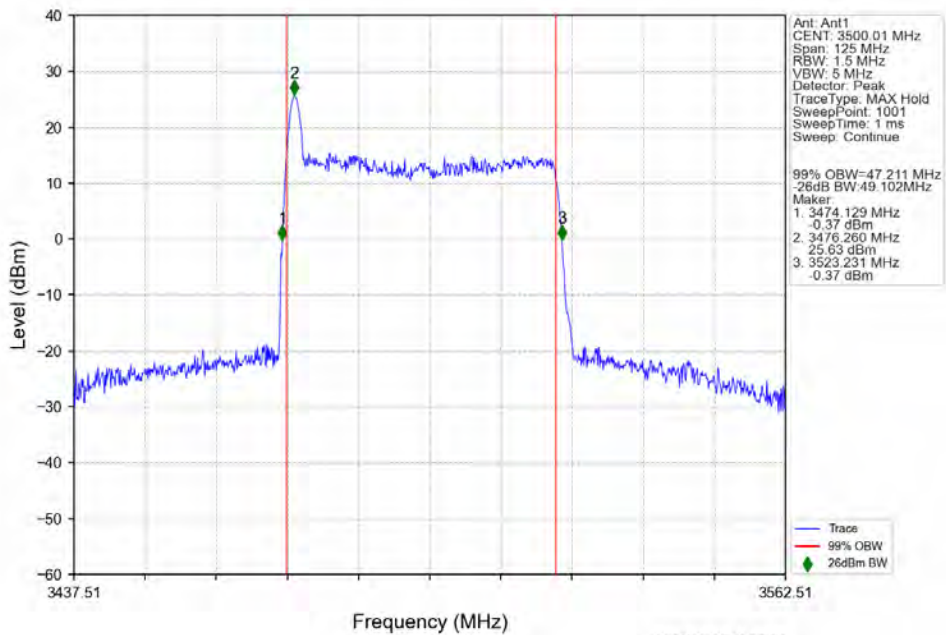
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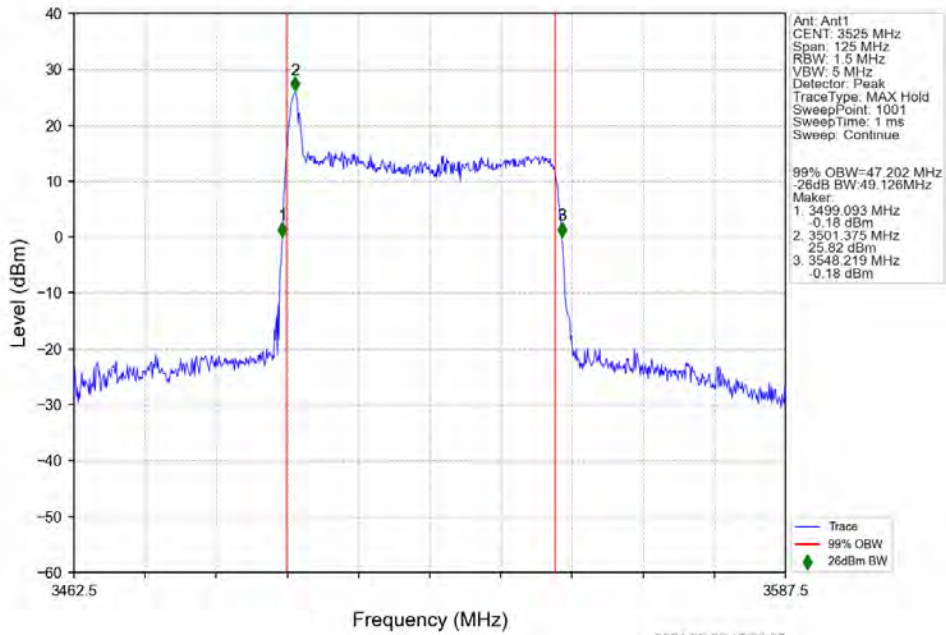
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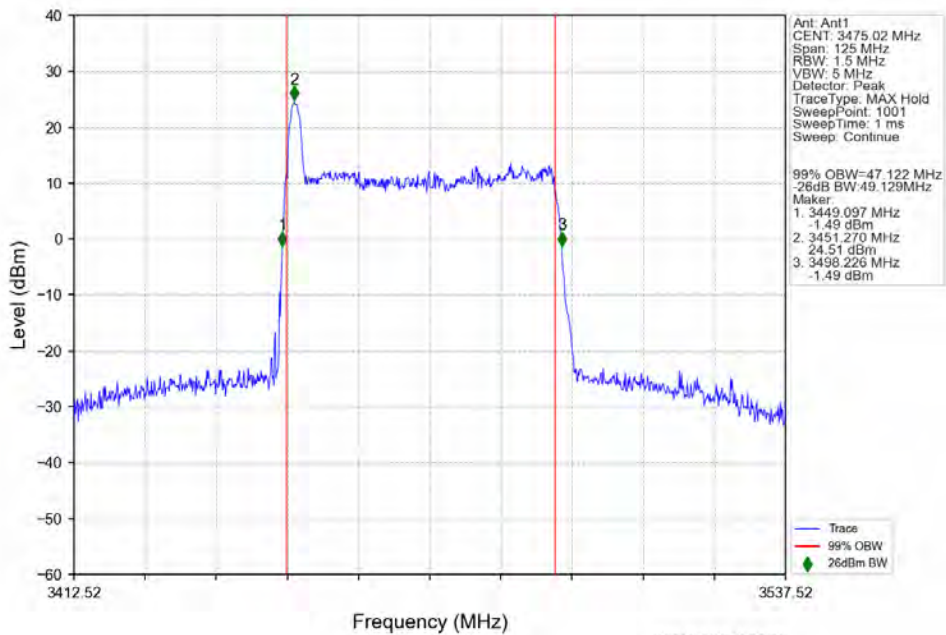
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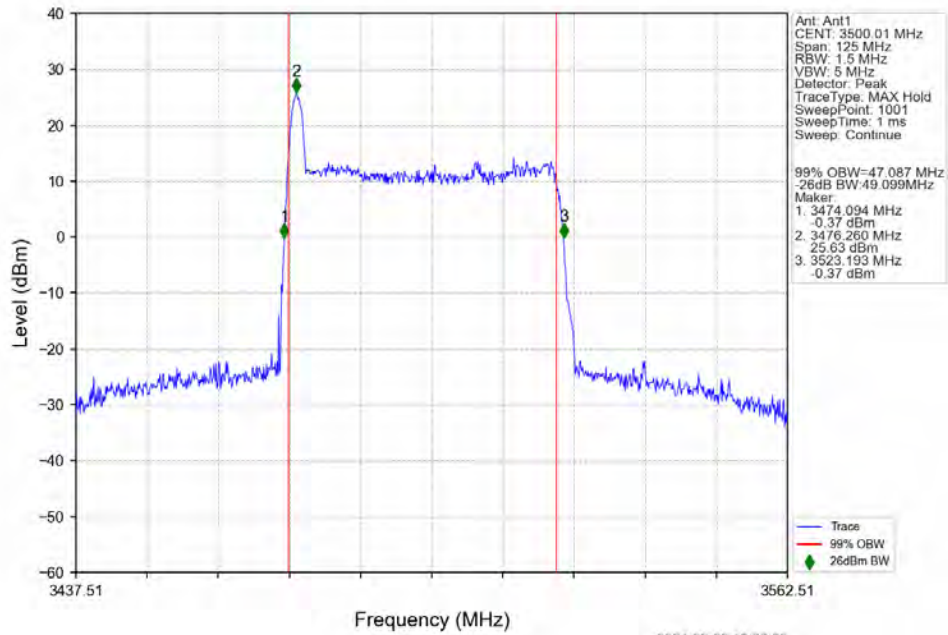
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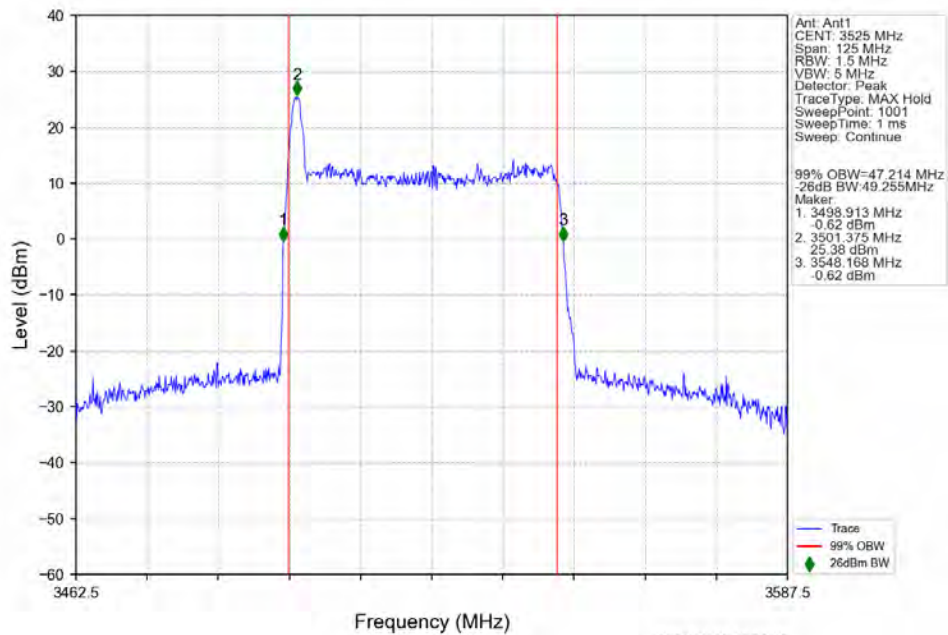
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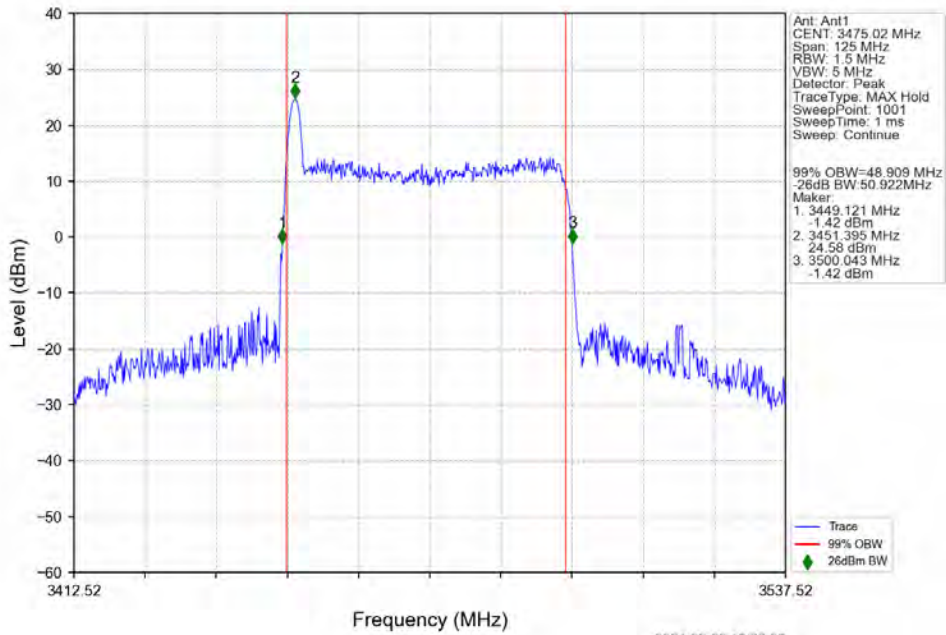
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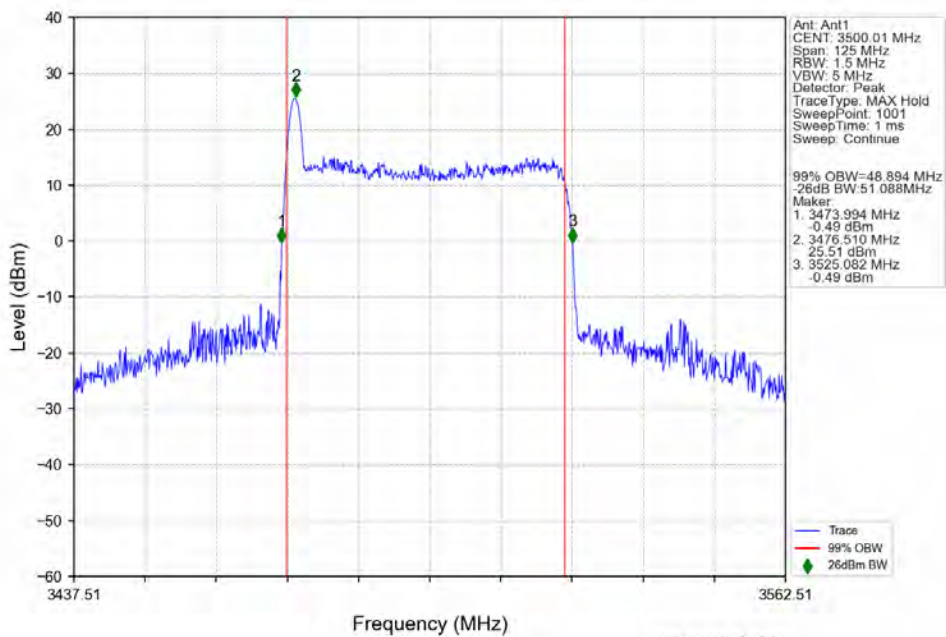
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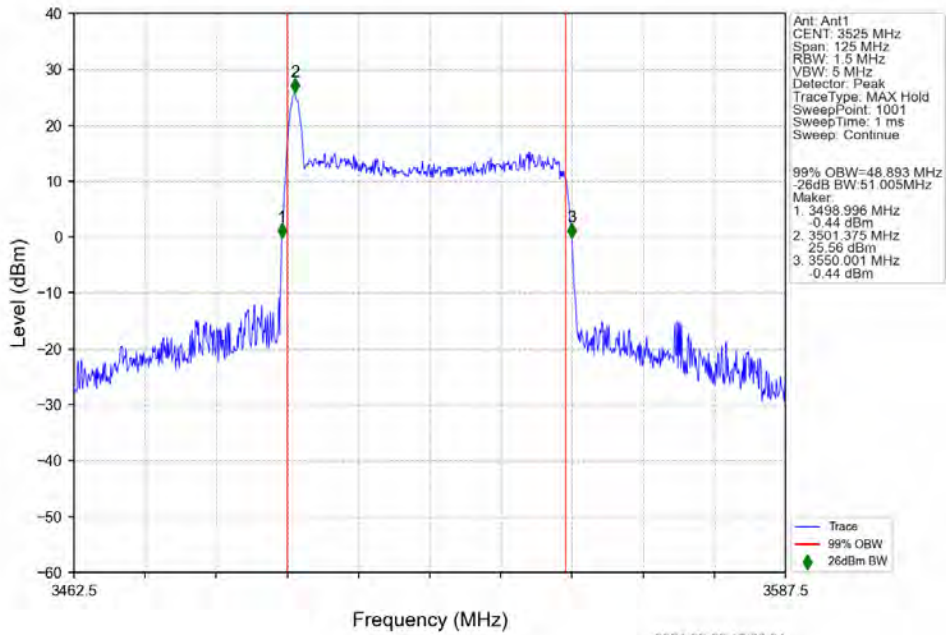
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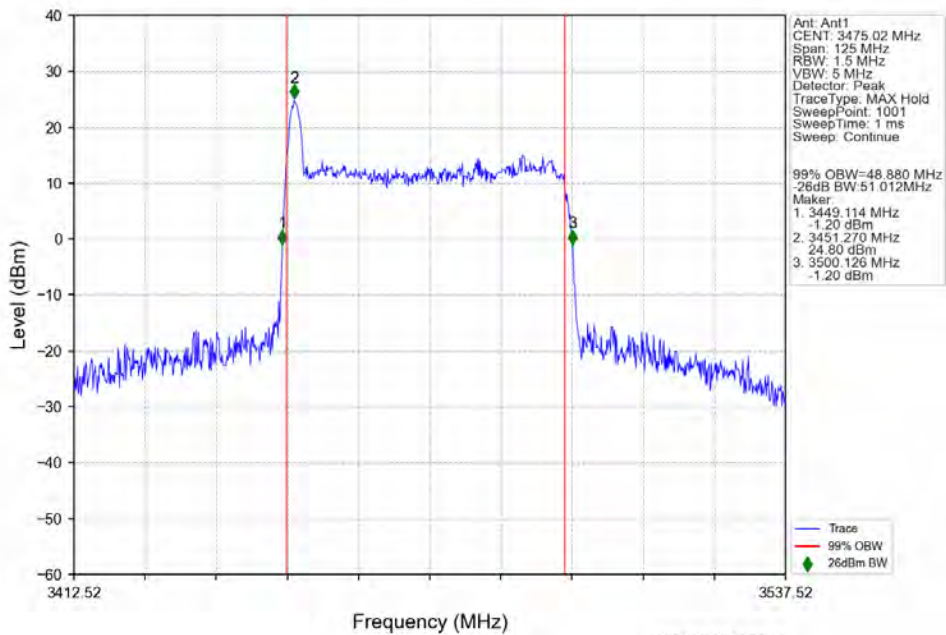
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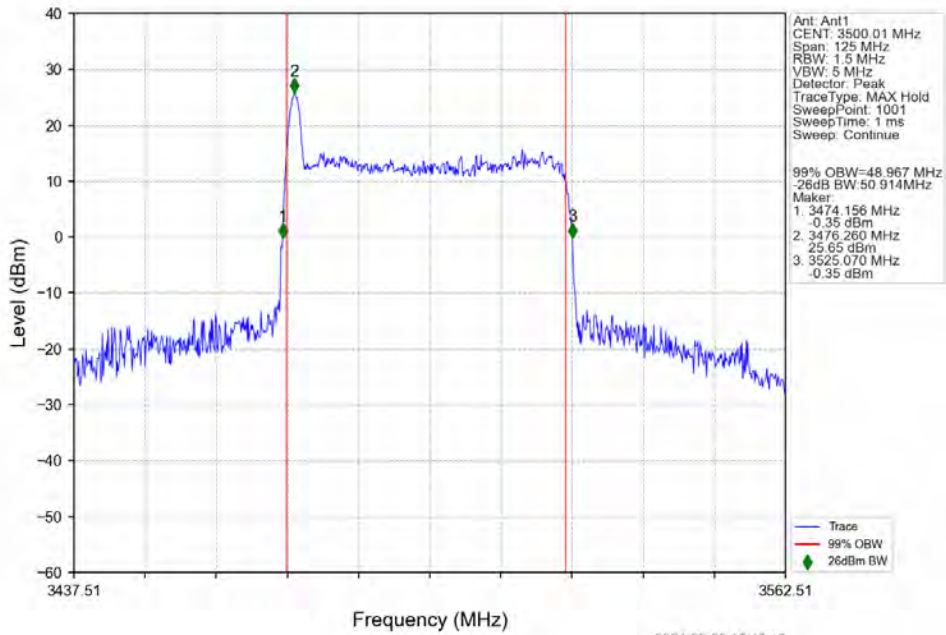
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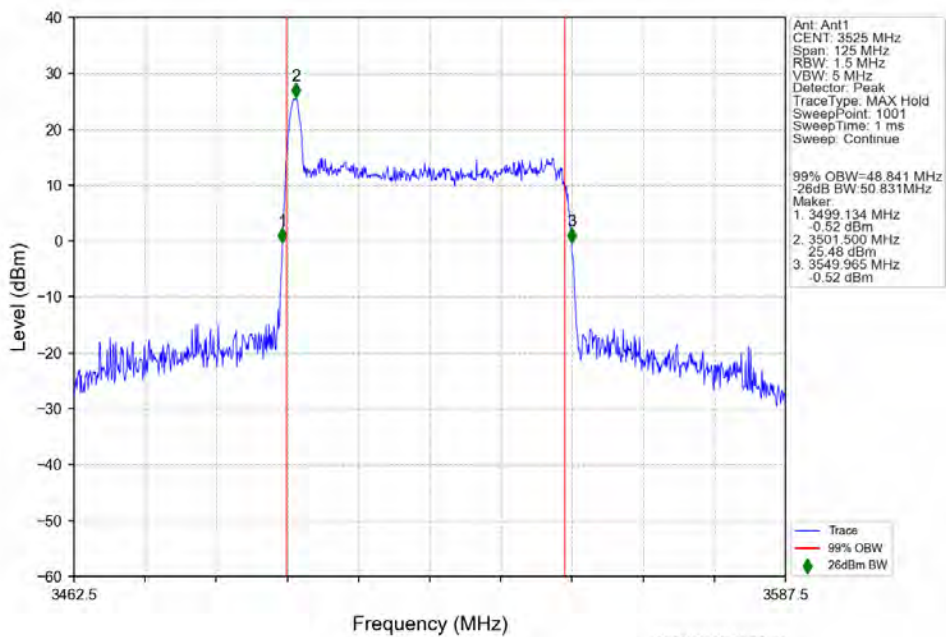
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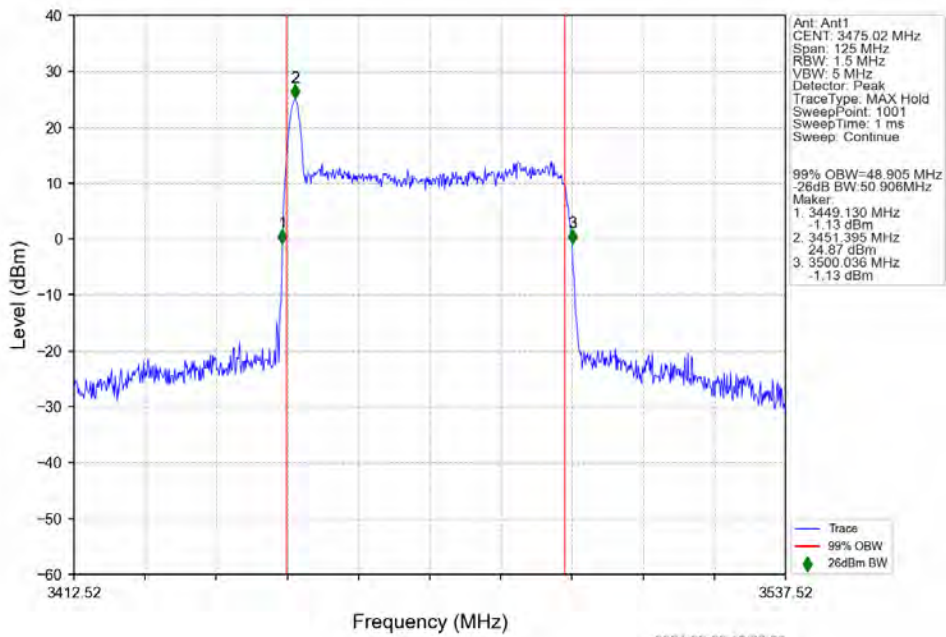
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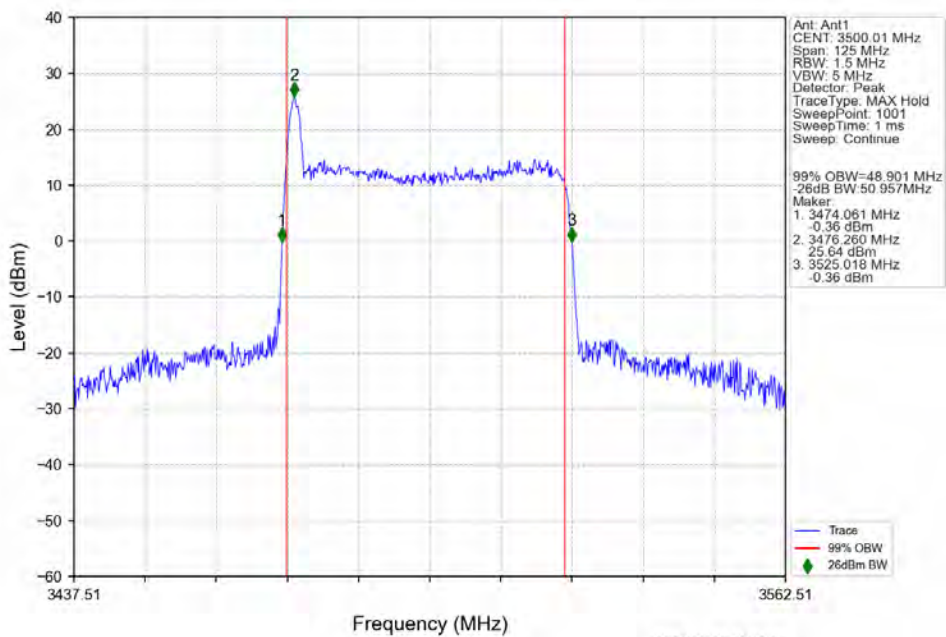
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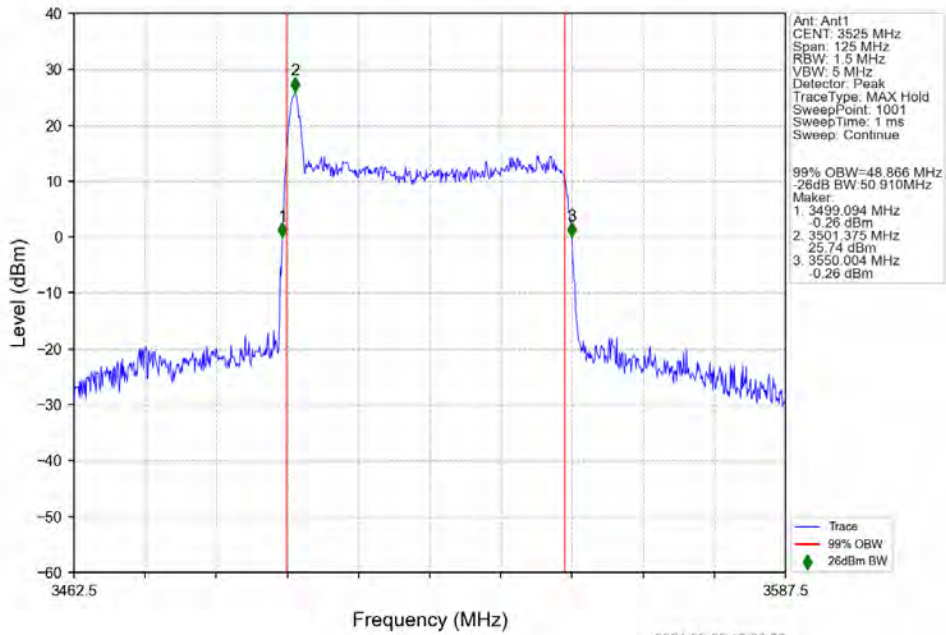
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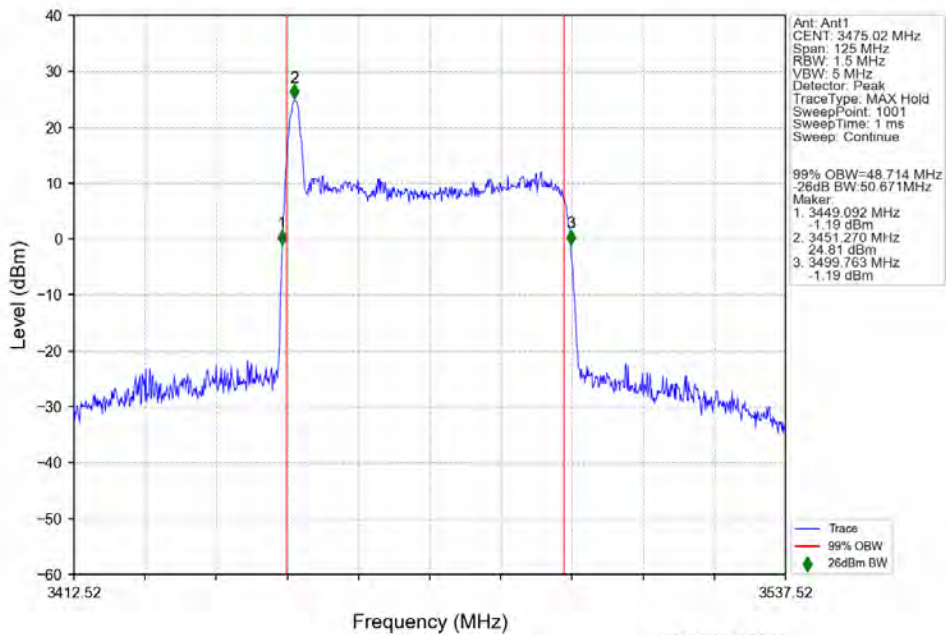
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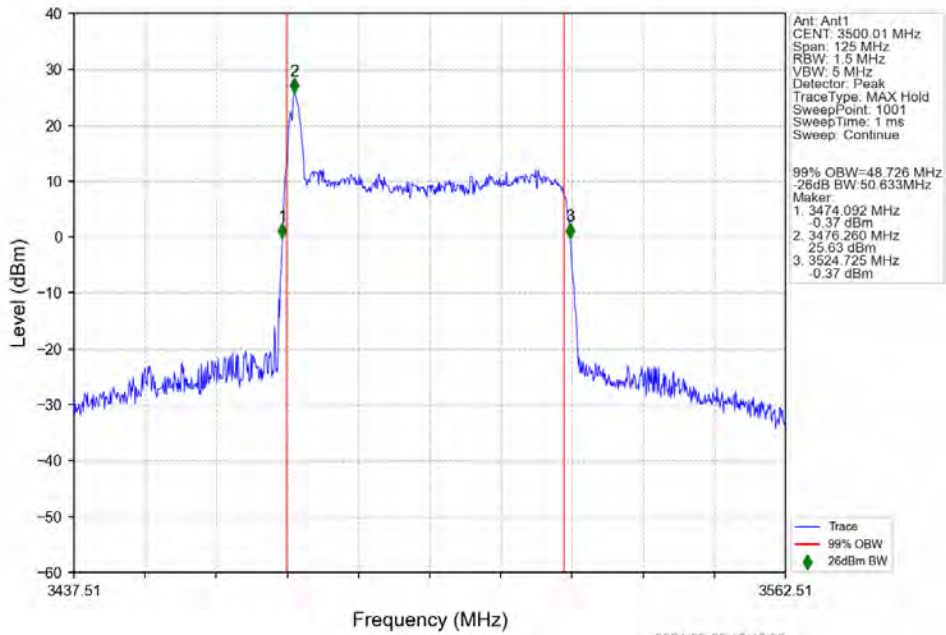
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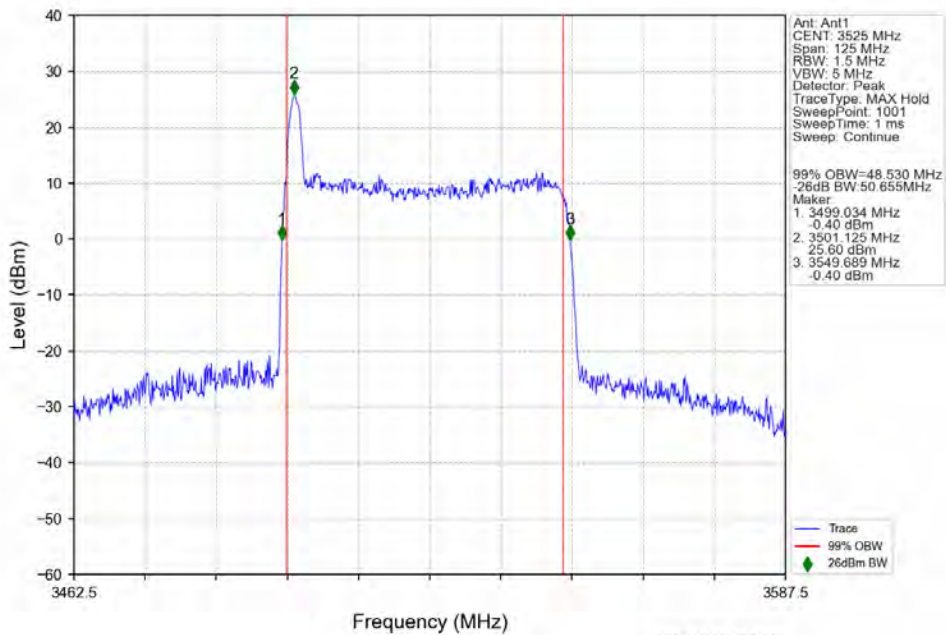
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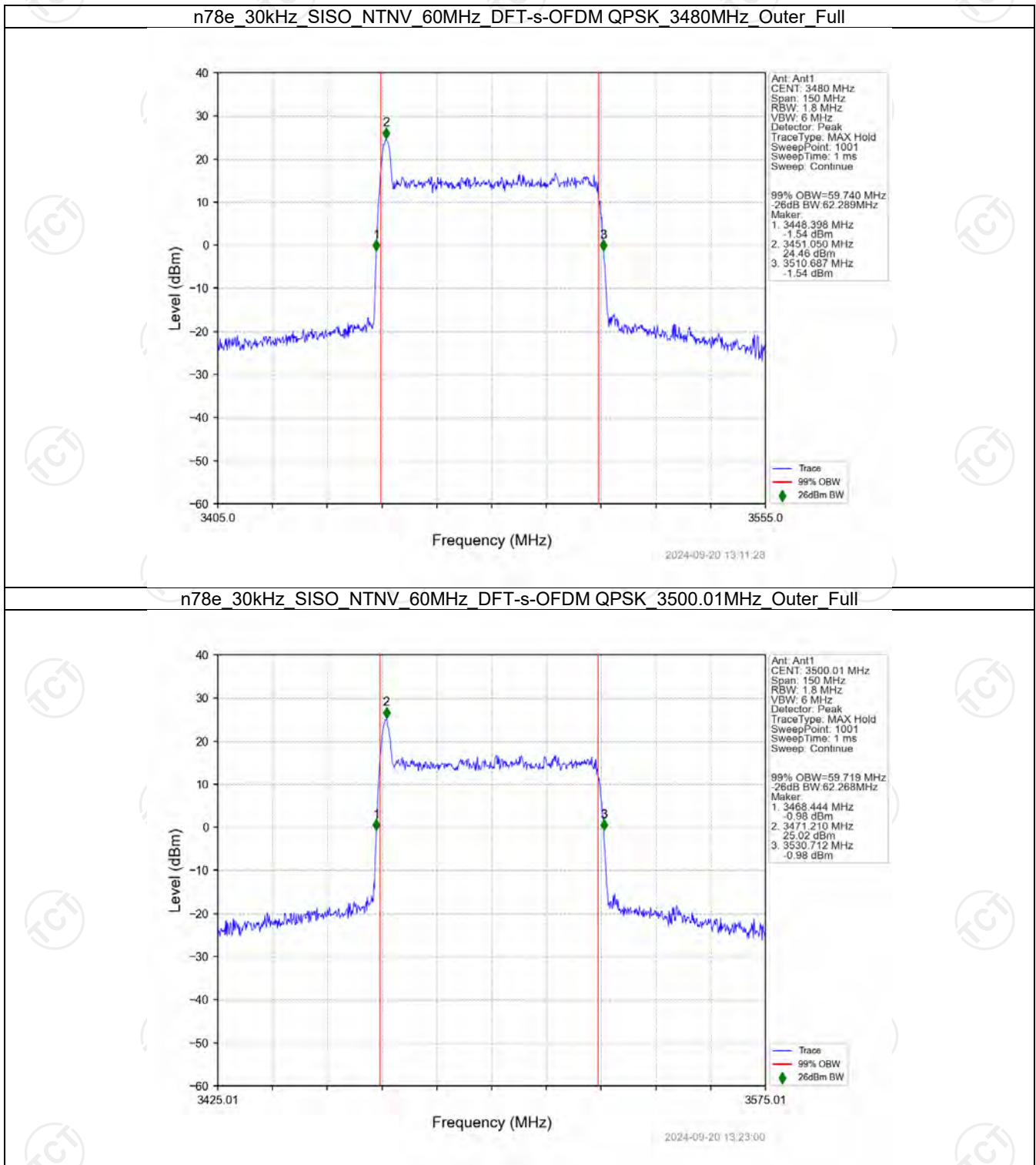
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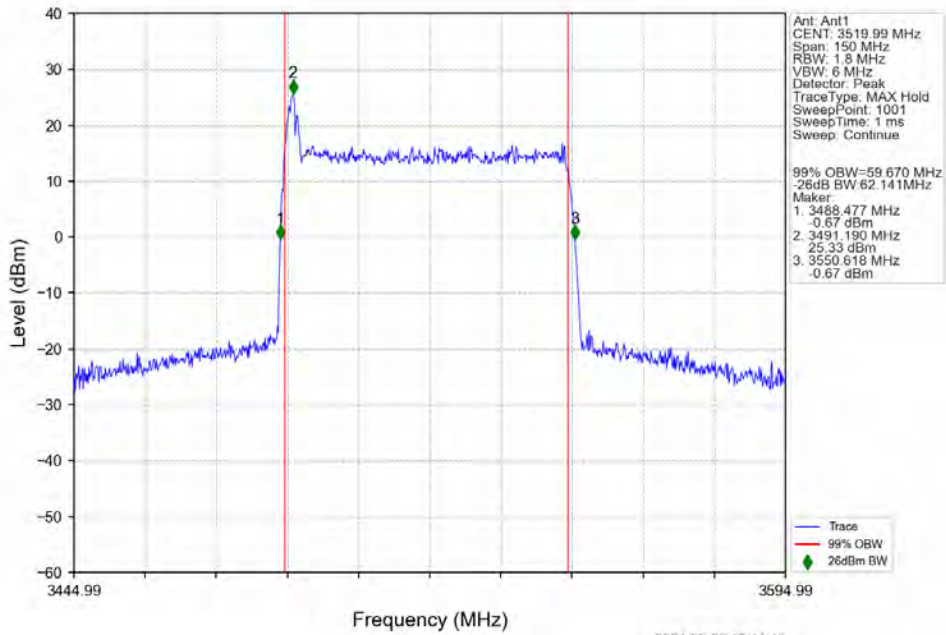
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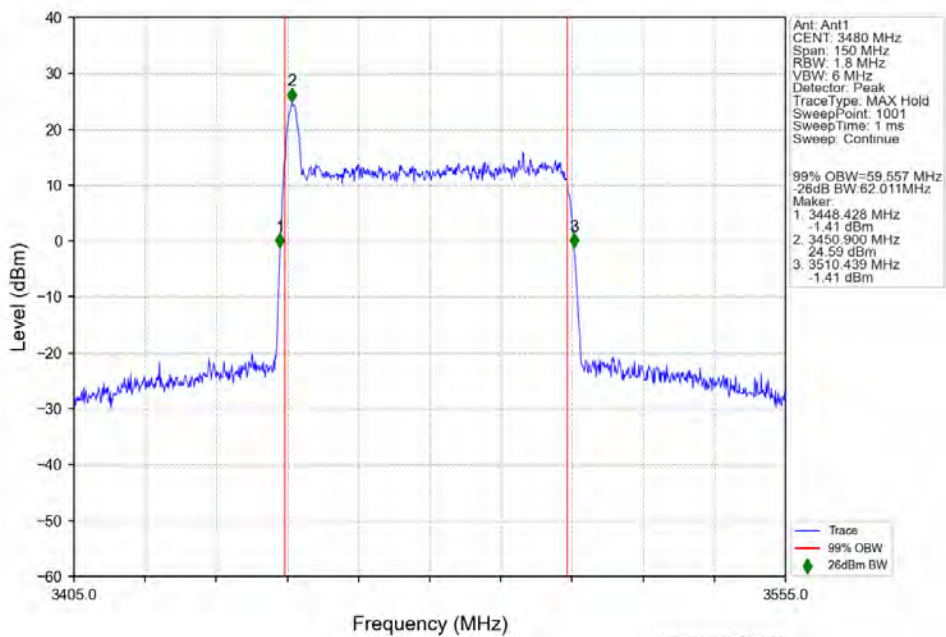
4.2.15 30k_SISO_60MHz_NTNV



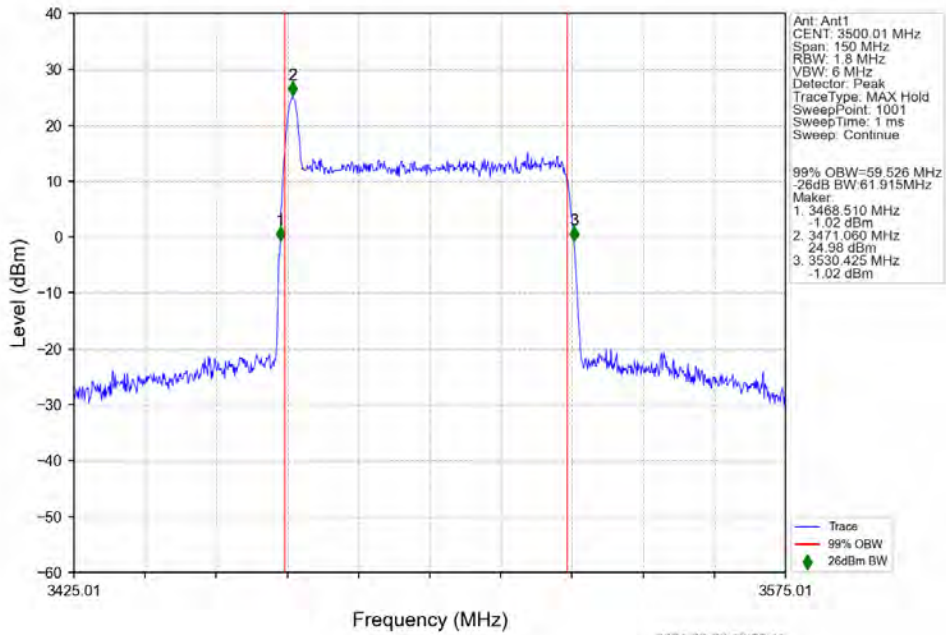
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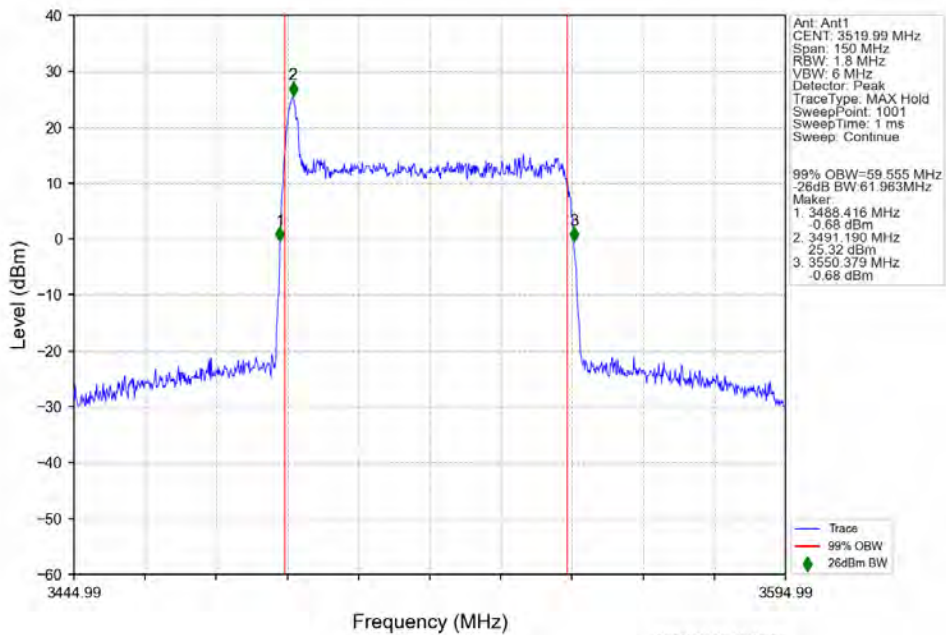
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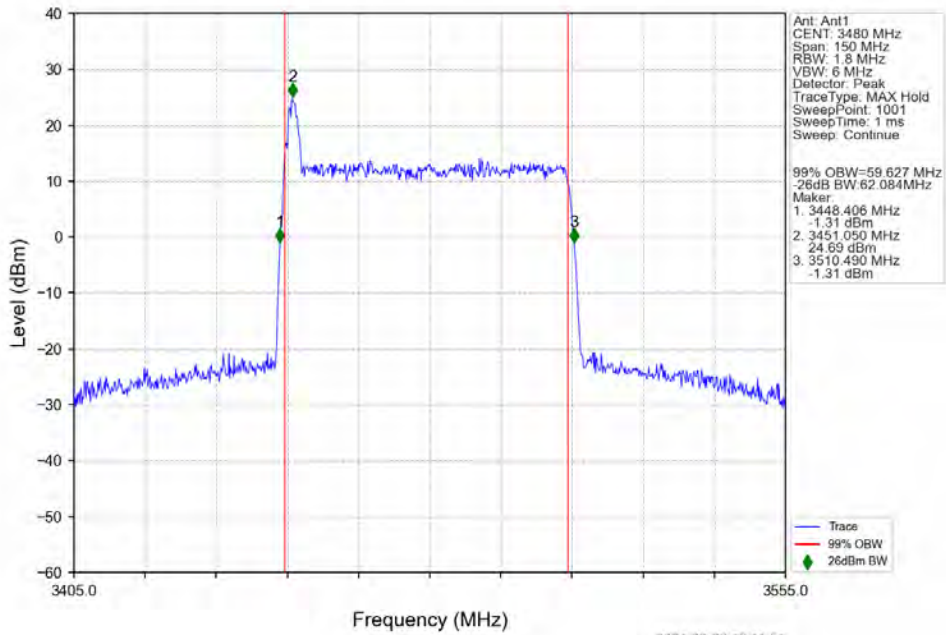
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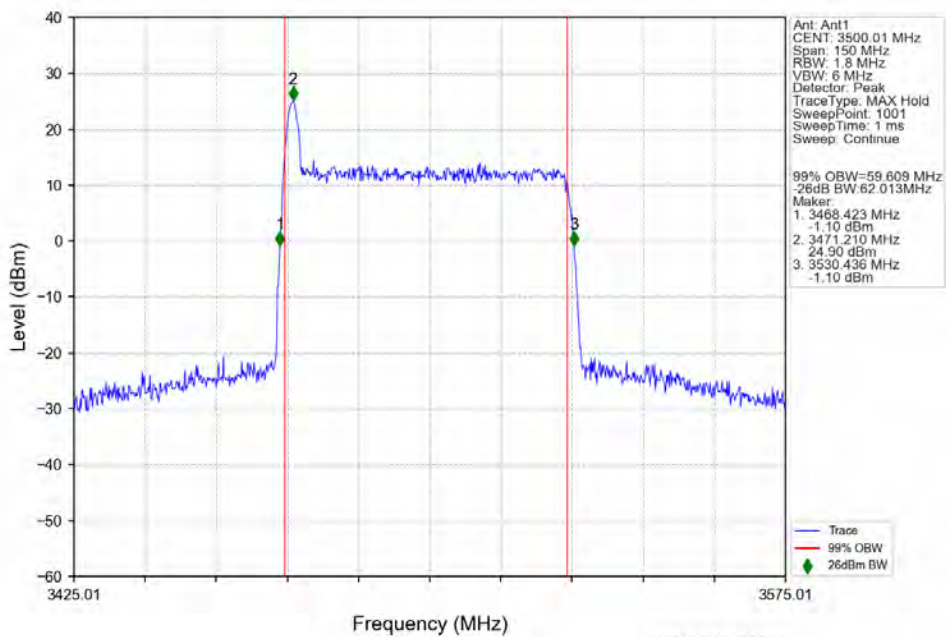
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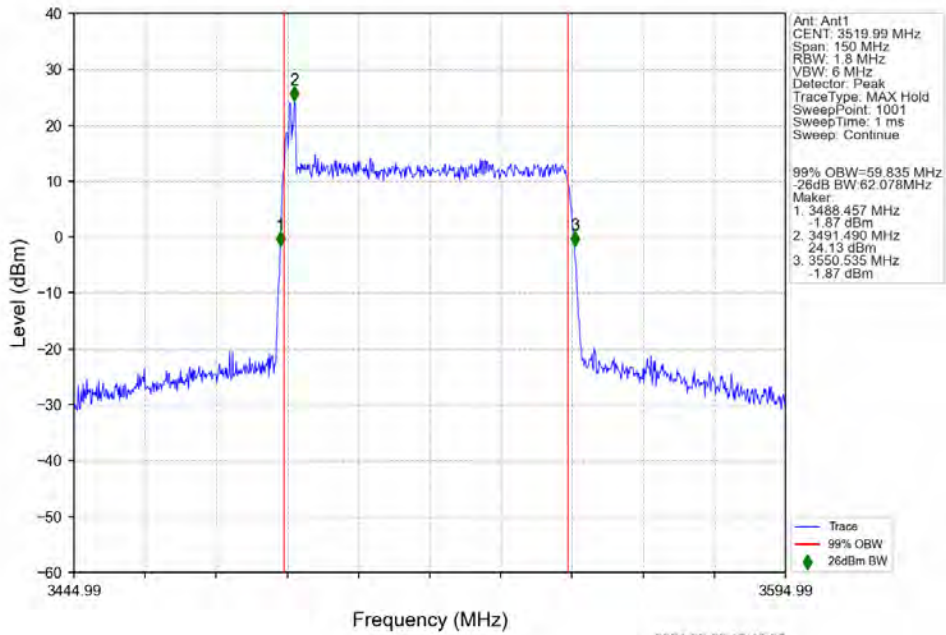
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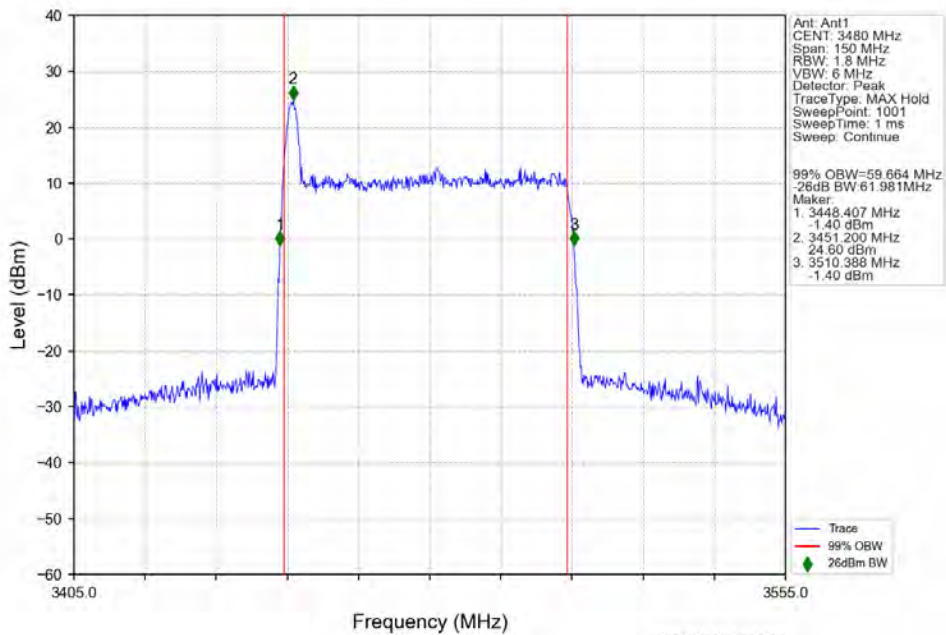
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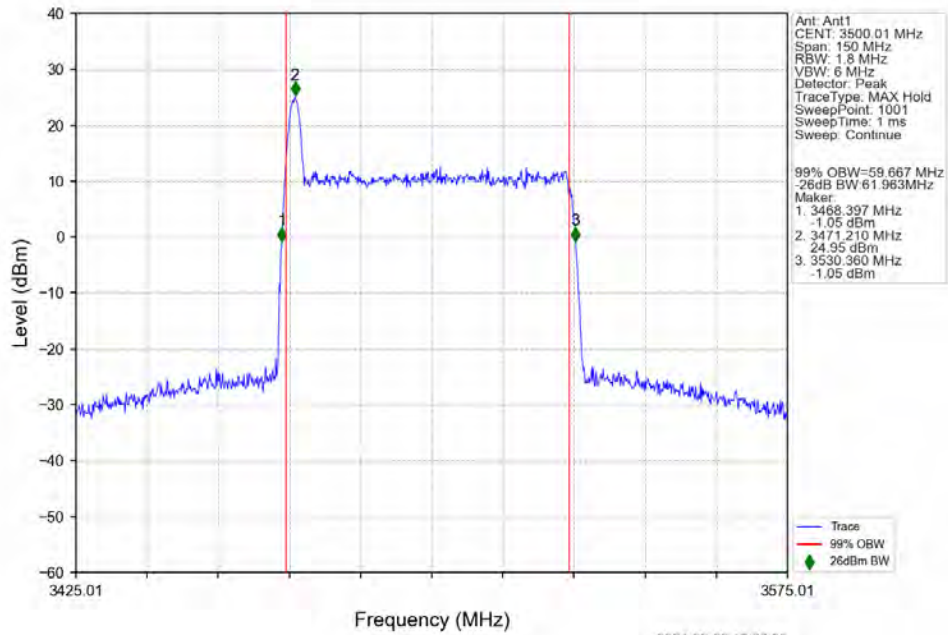
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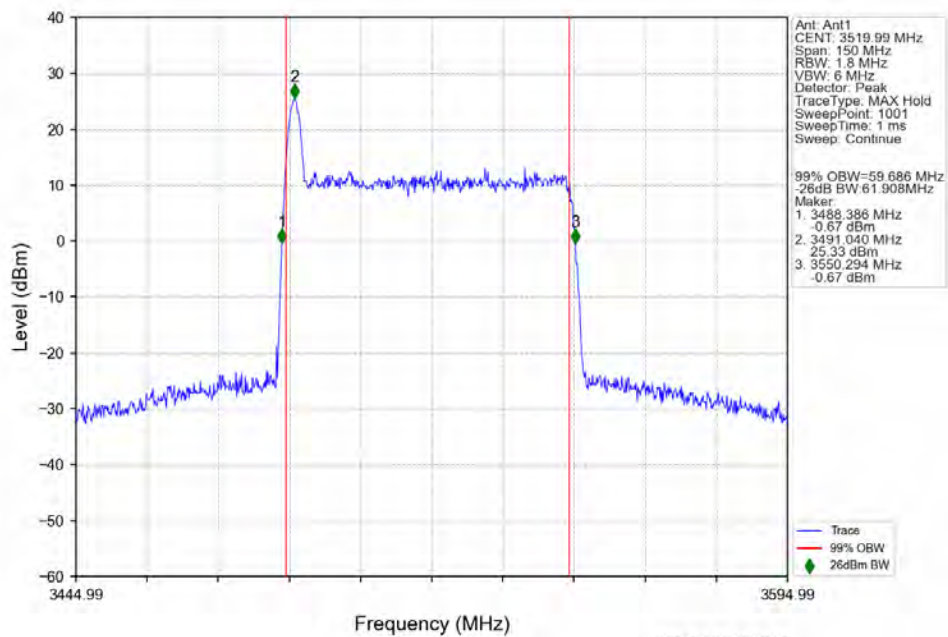
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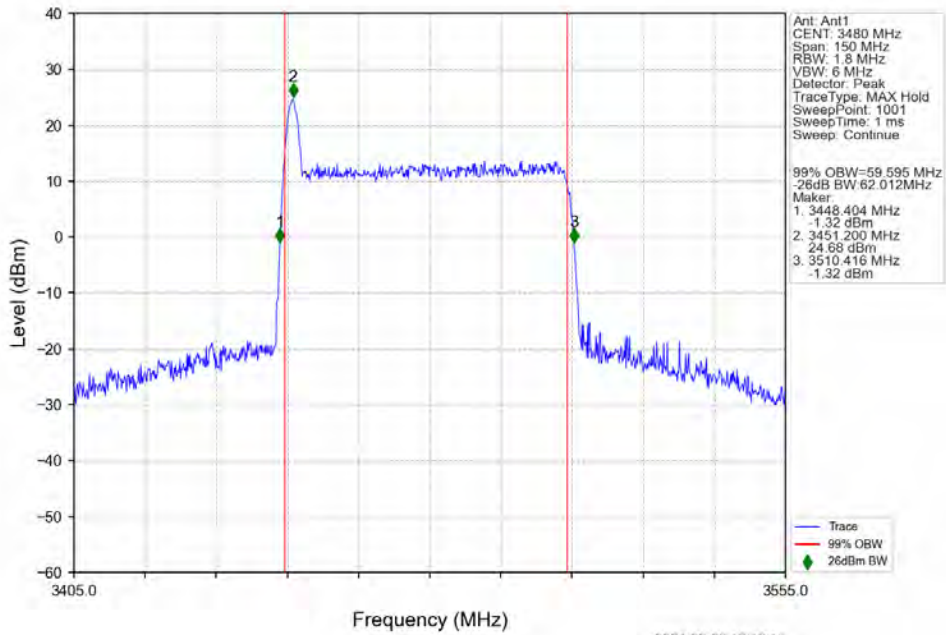
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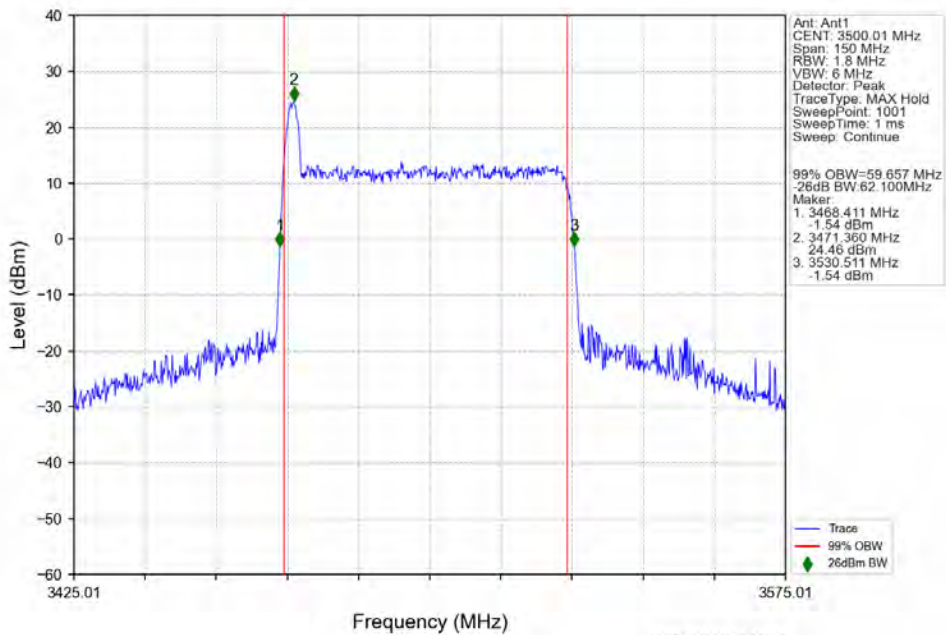
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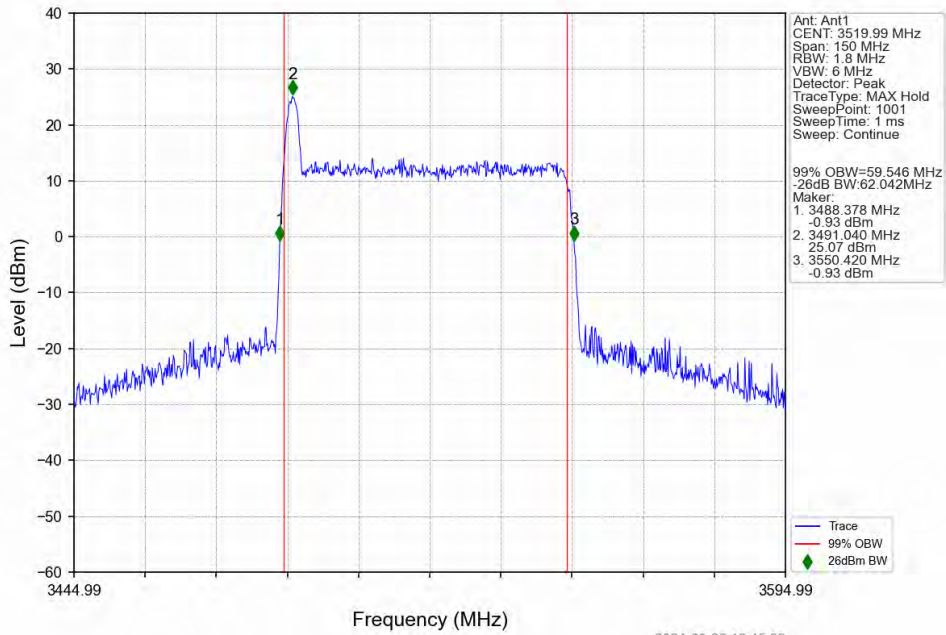
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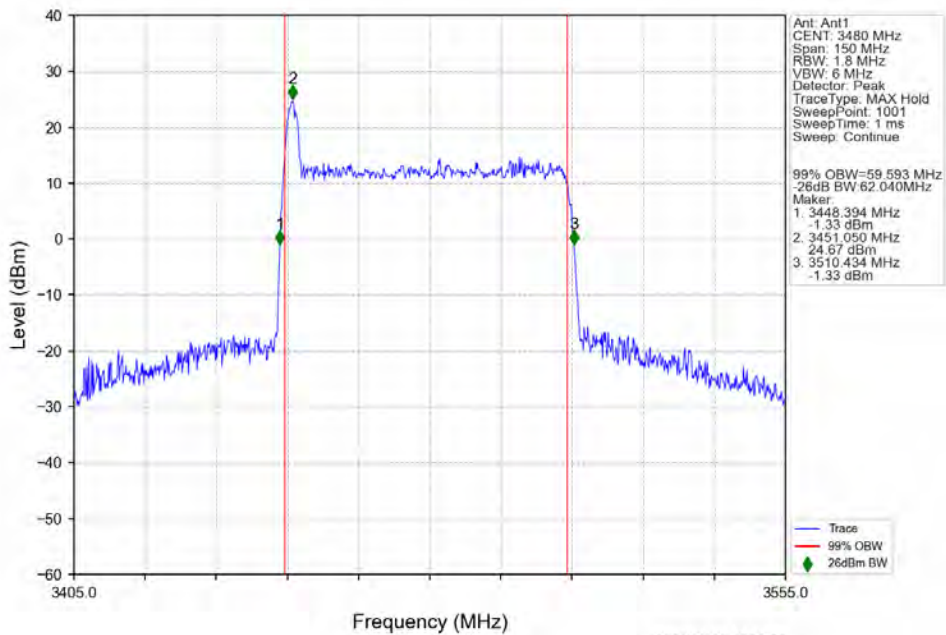
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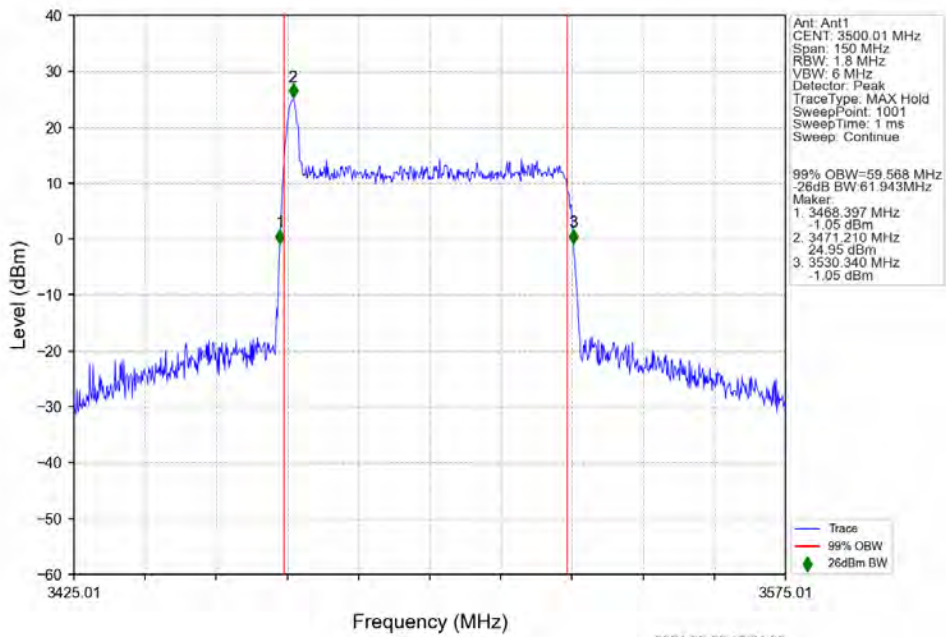
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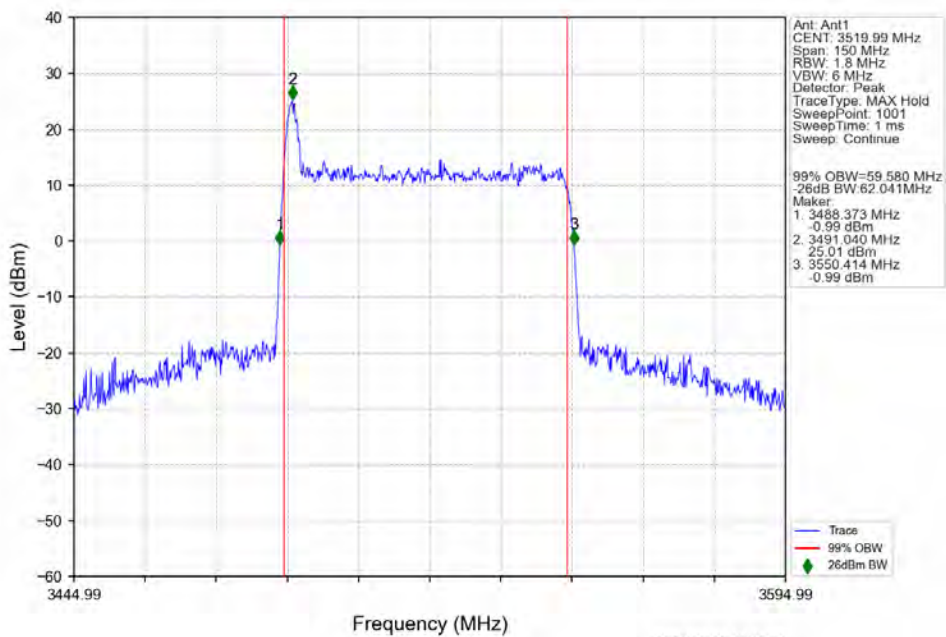
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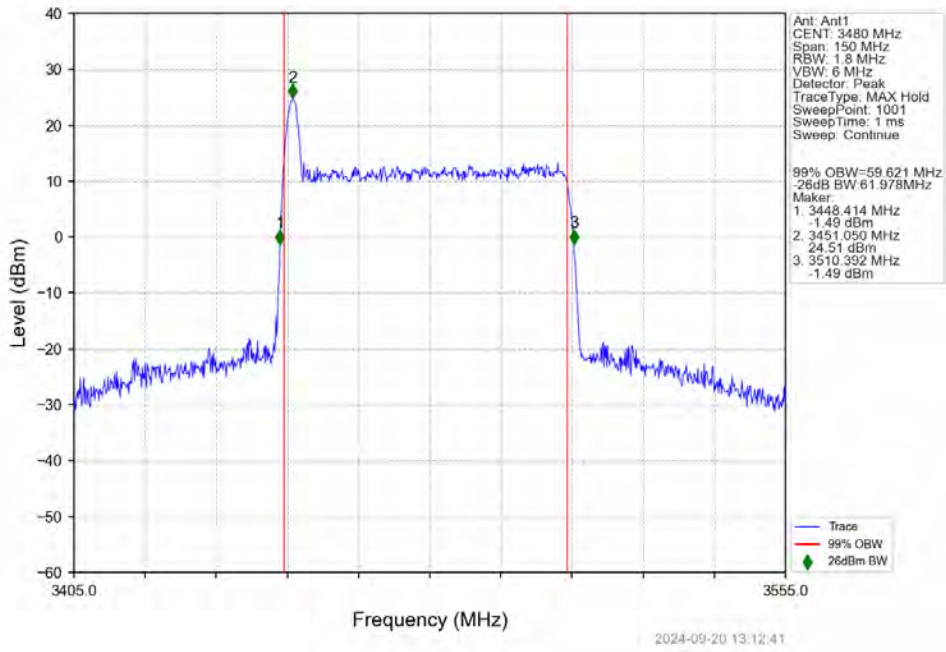
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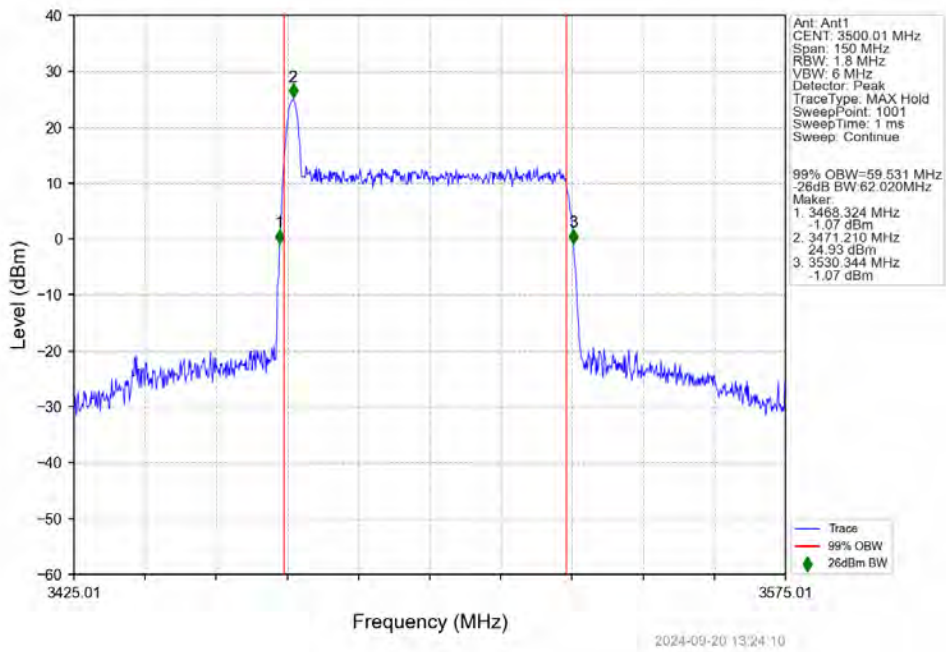
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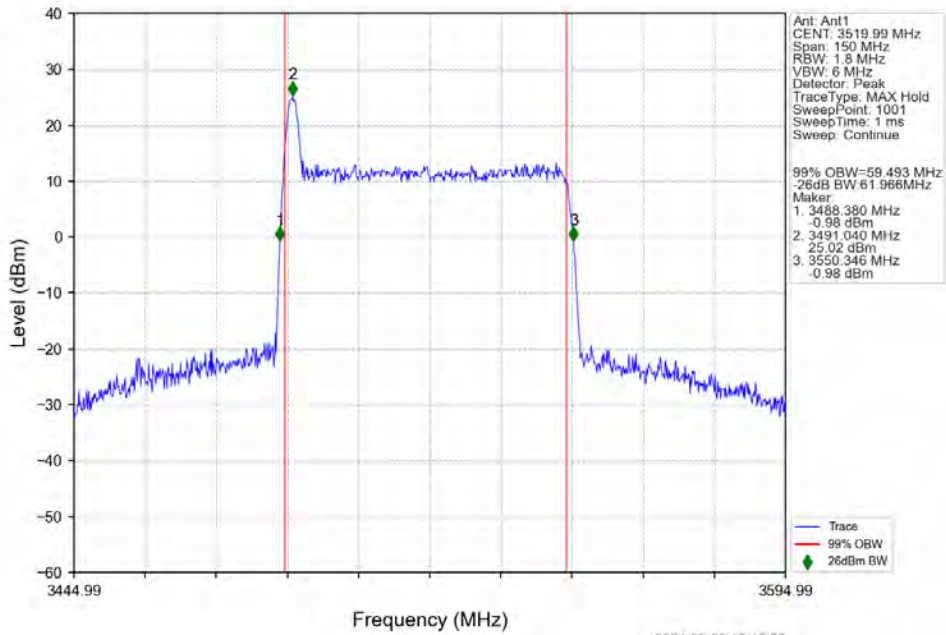
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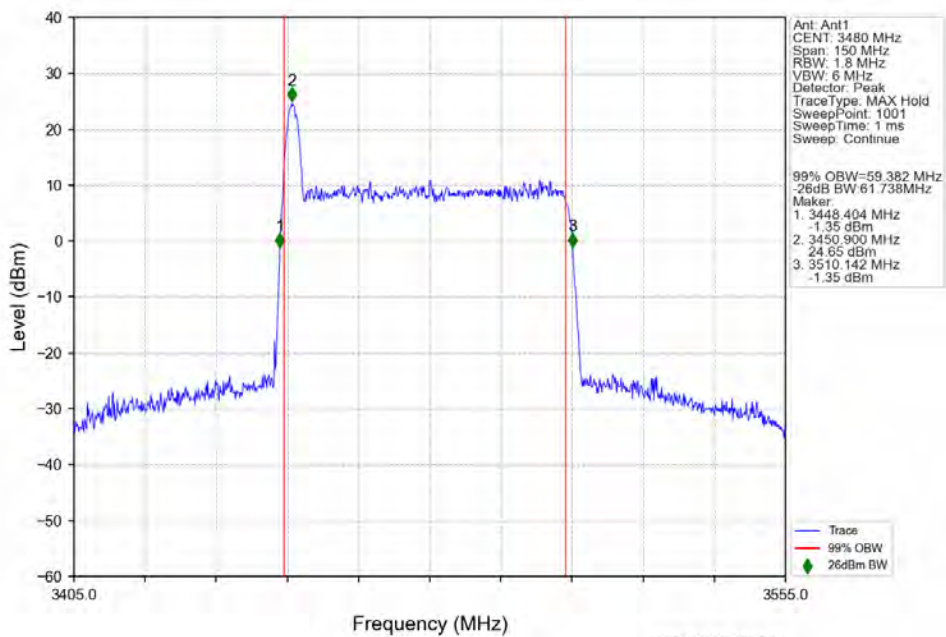
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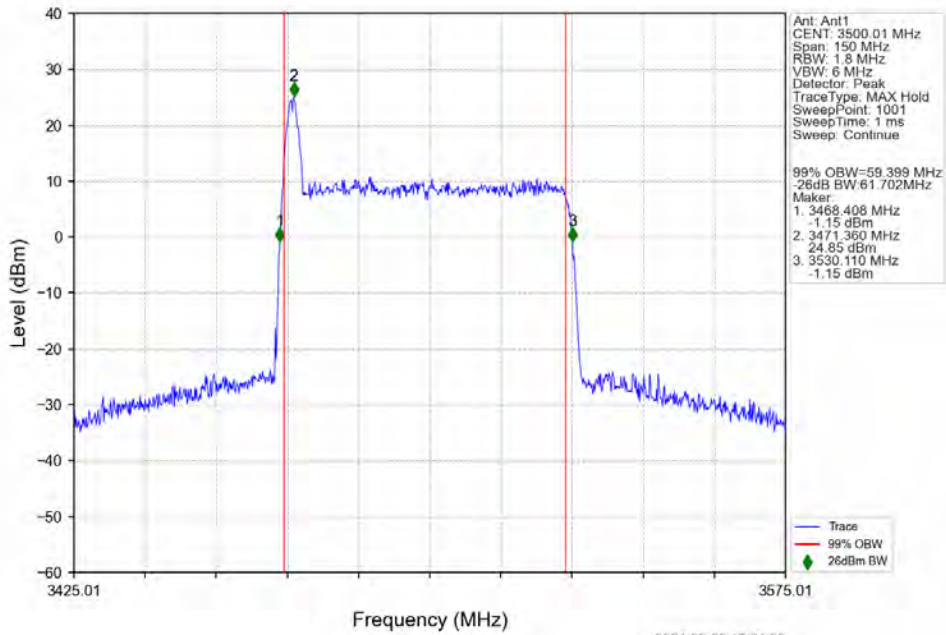
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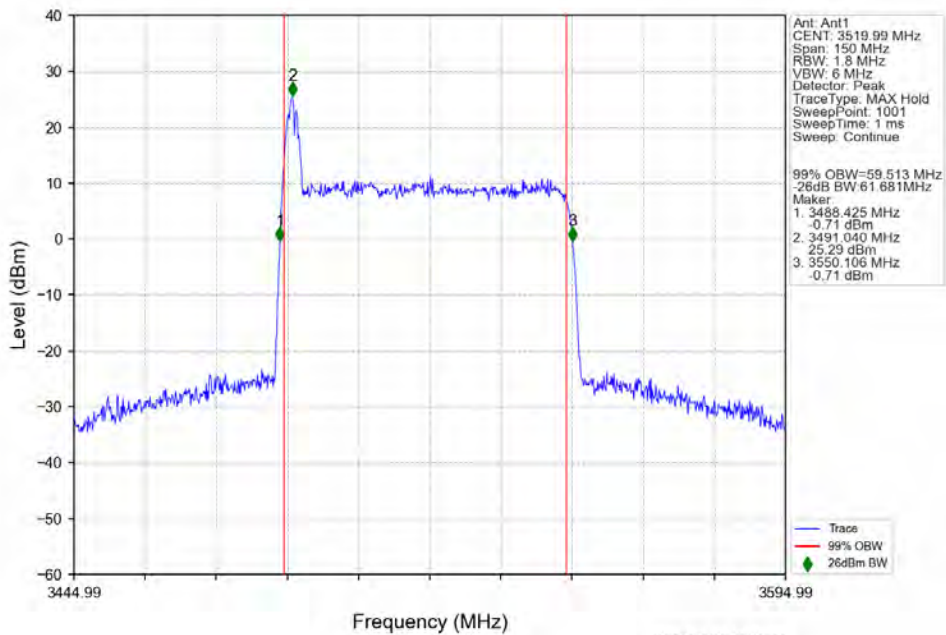
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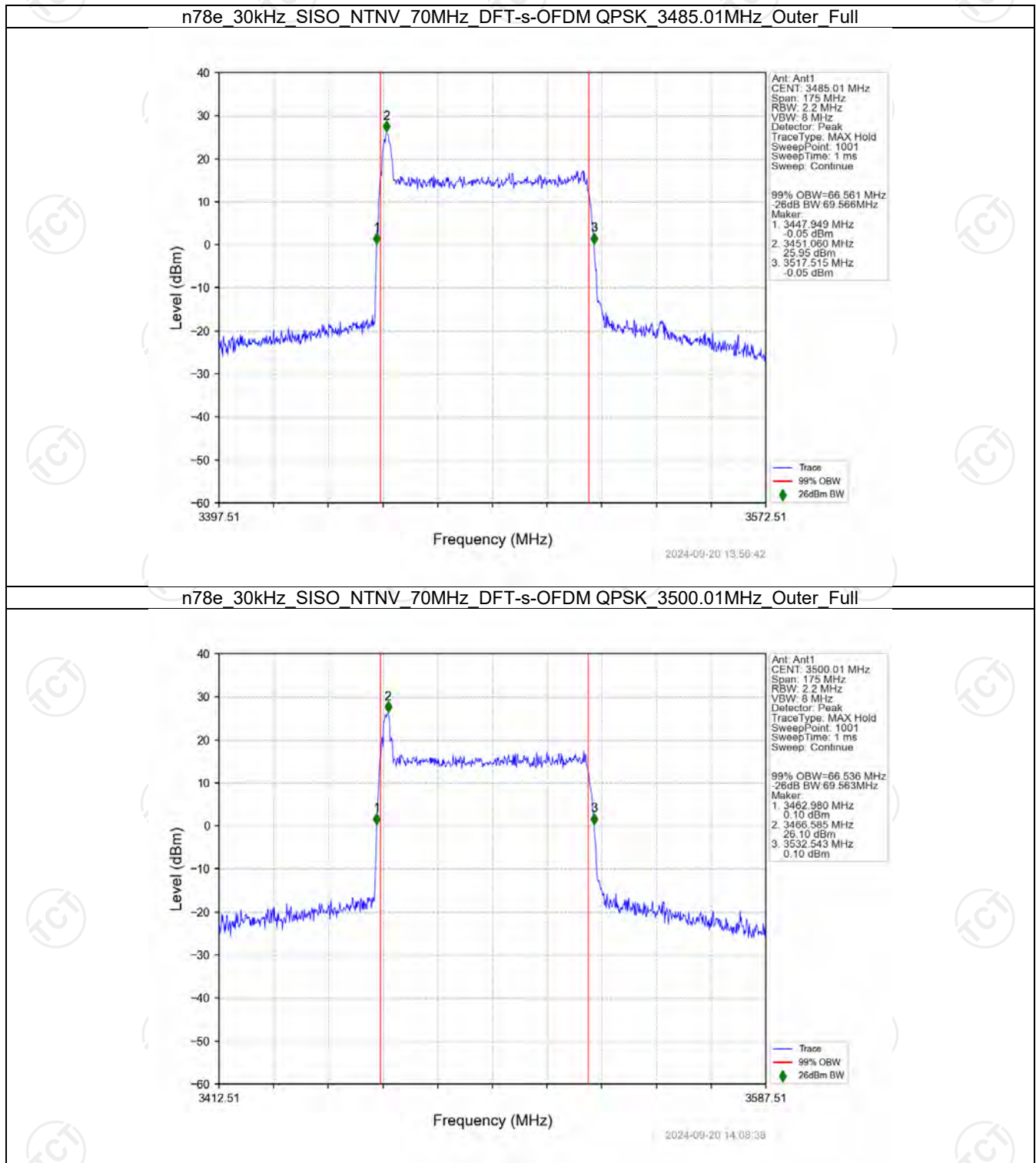
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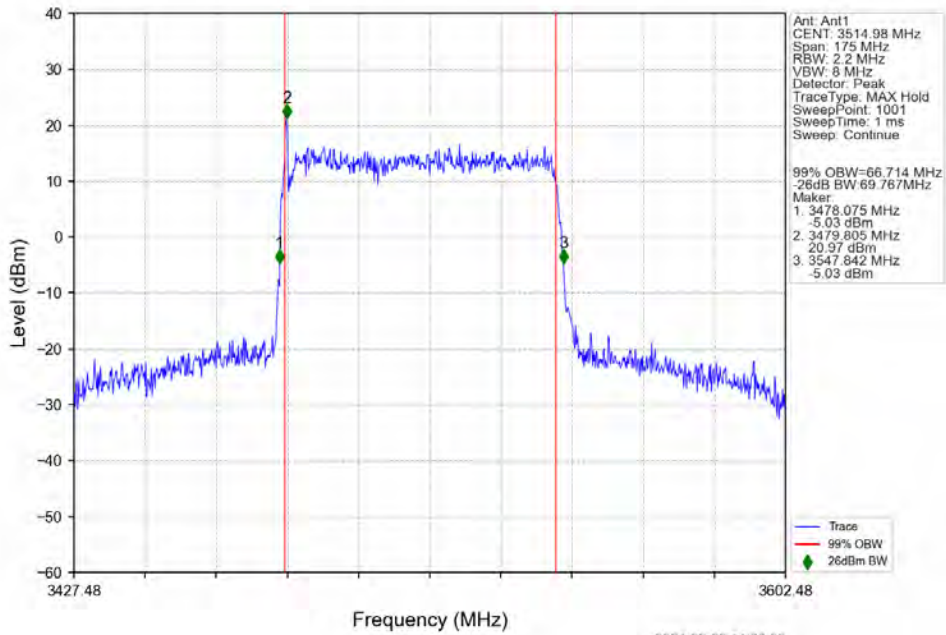
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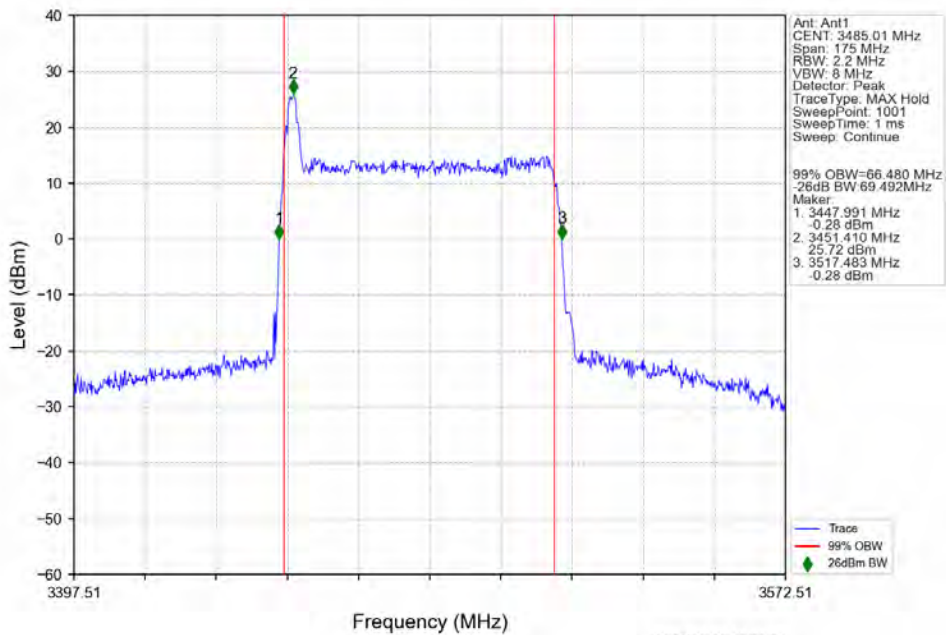
4.2.16 30k_SISO_70MHz_NTNV



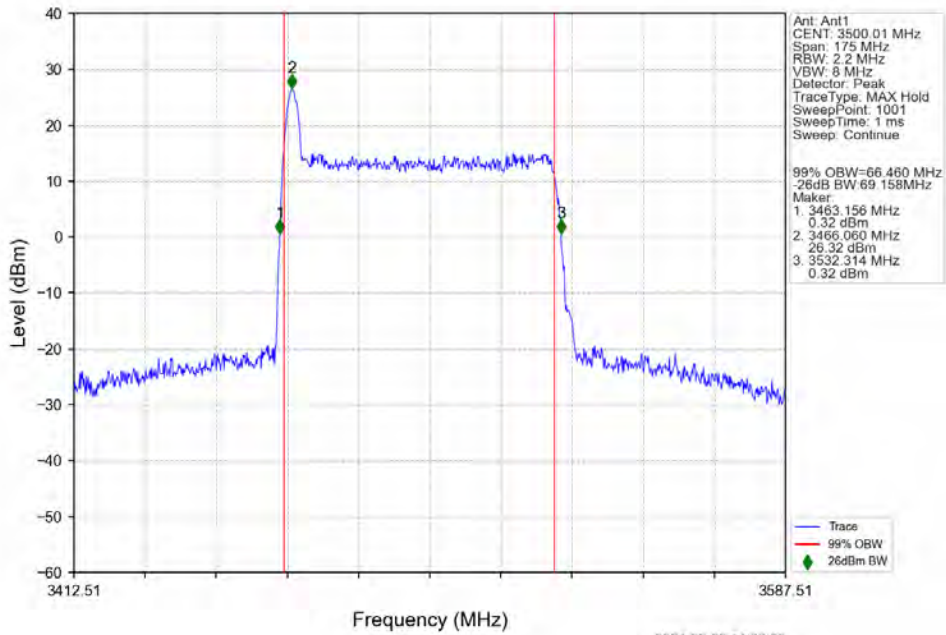
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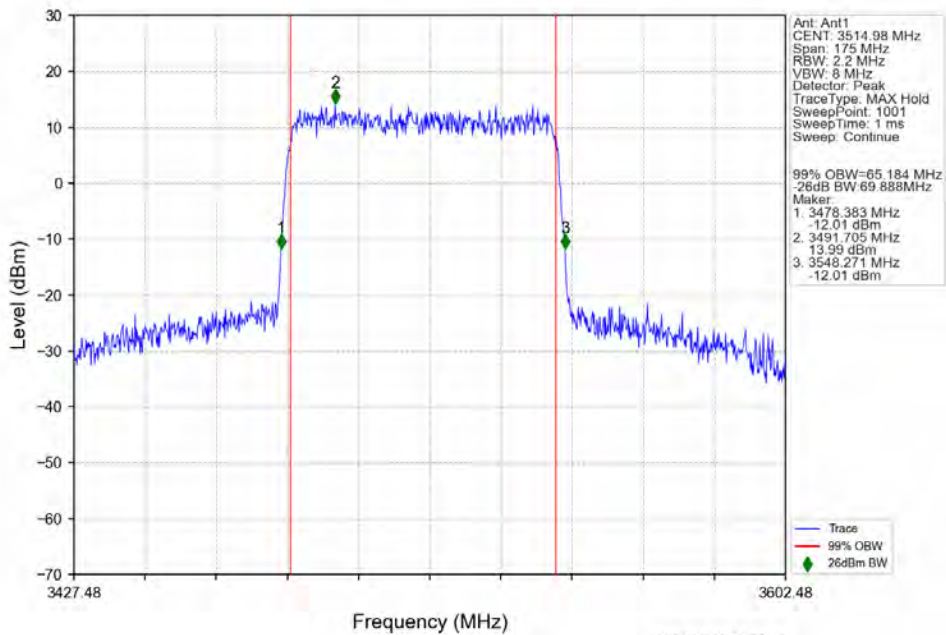
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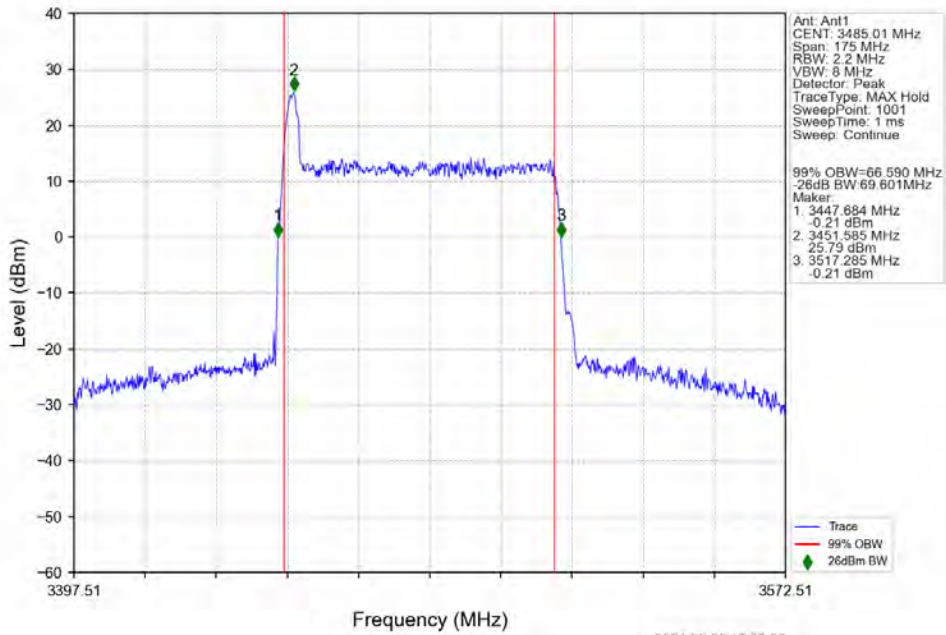
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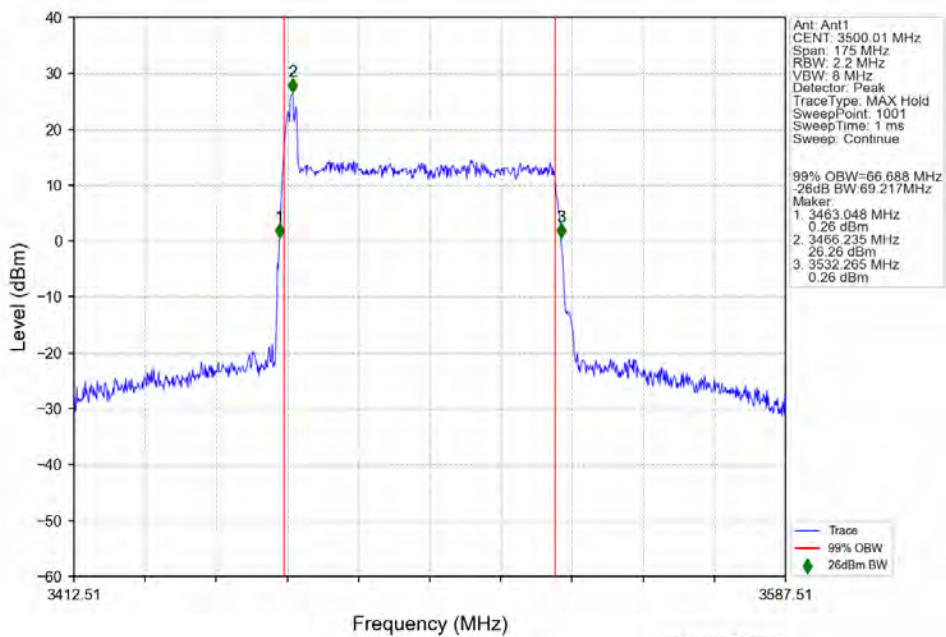
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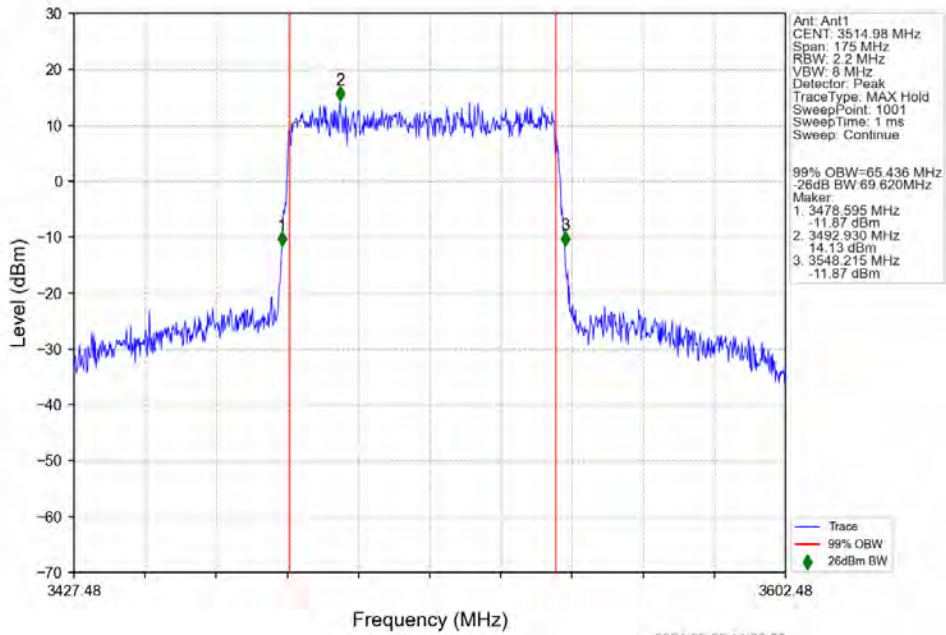
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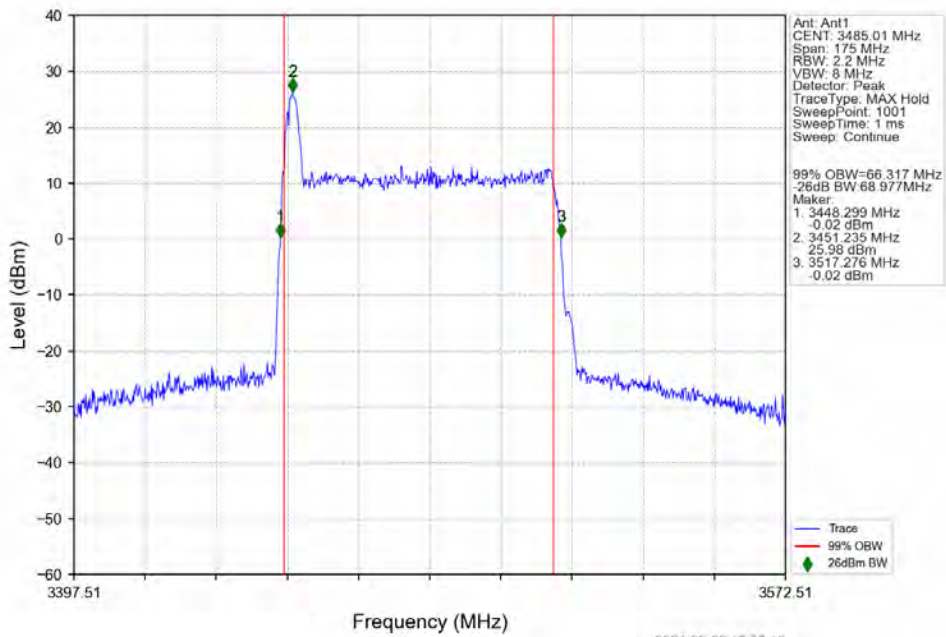
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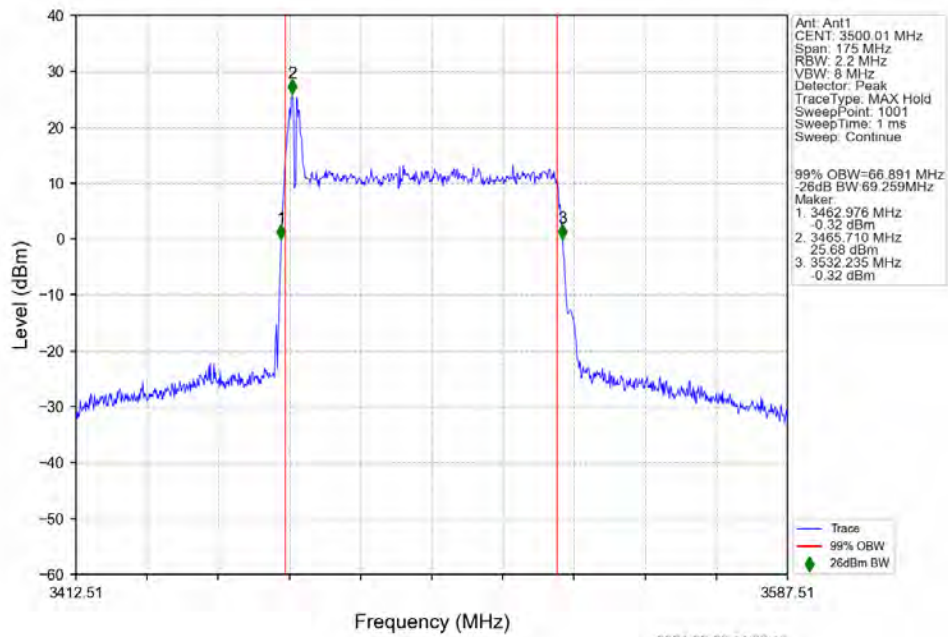
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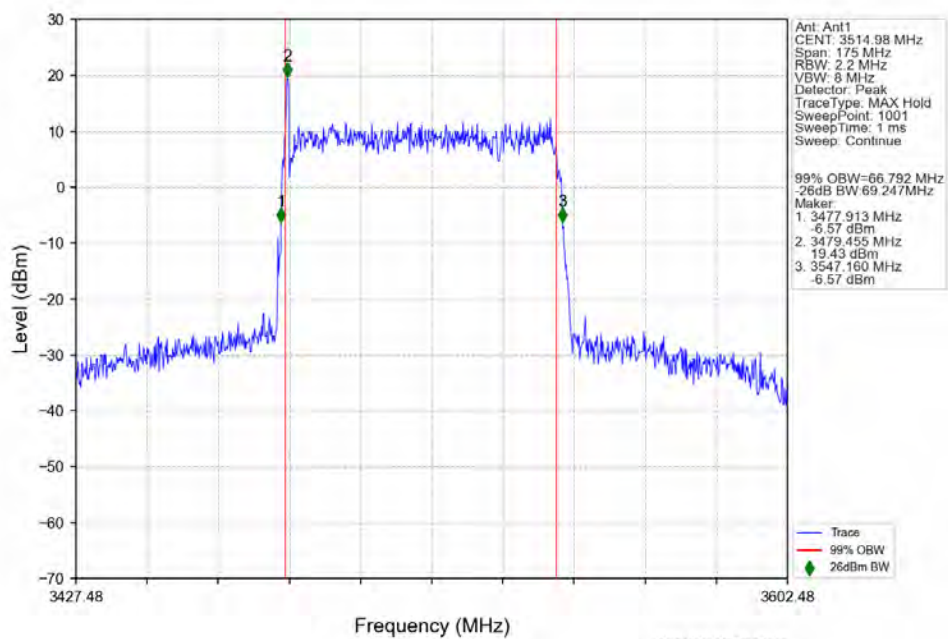
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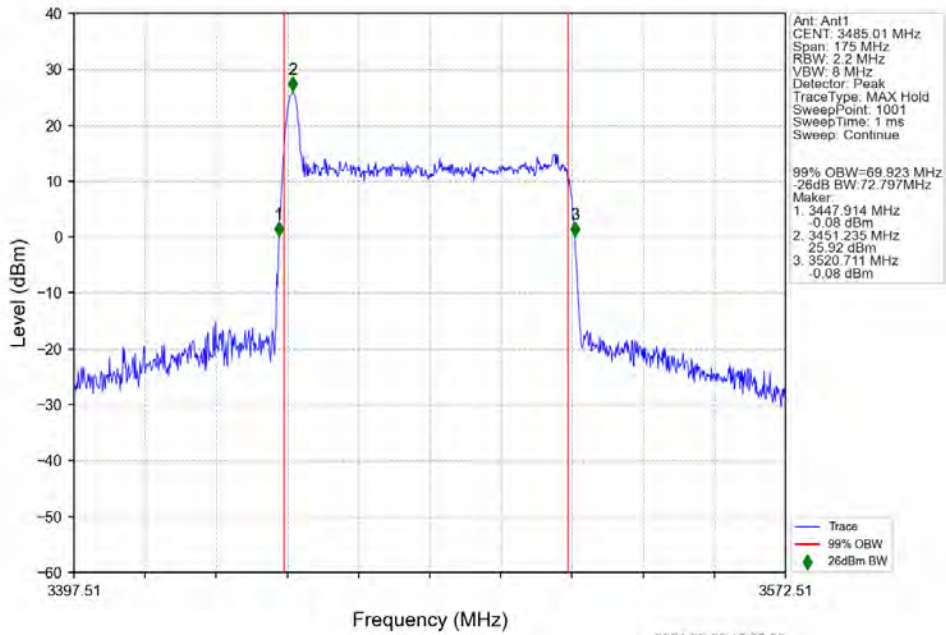
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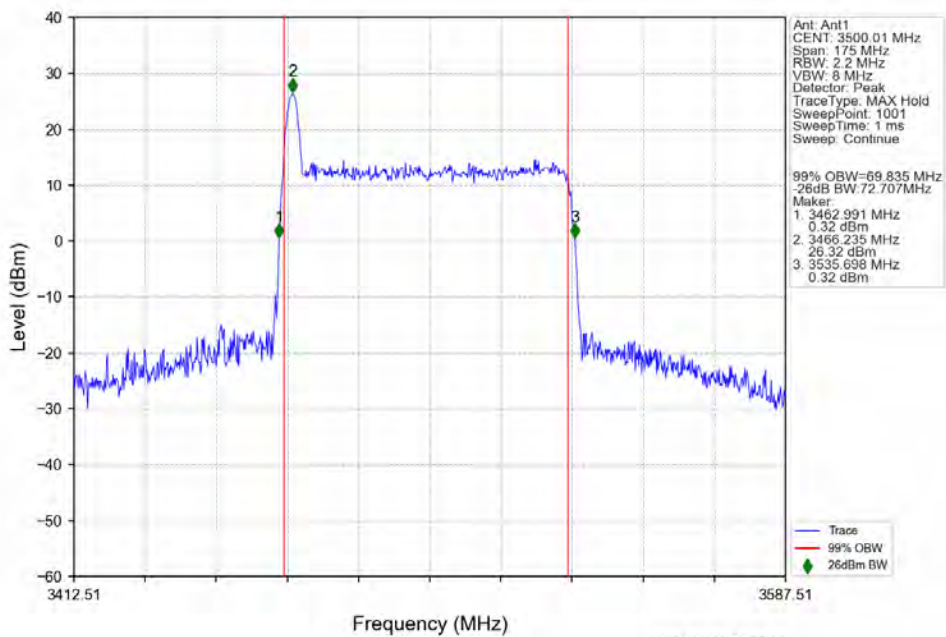
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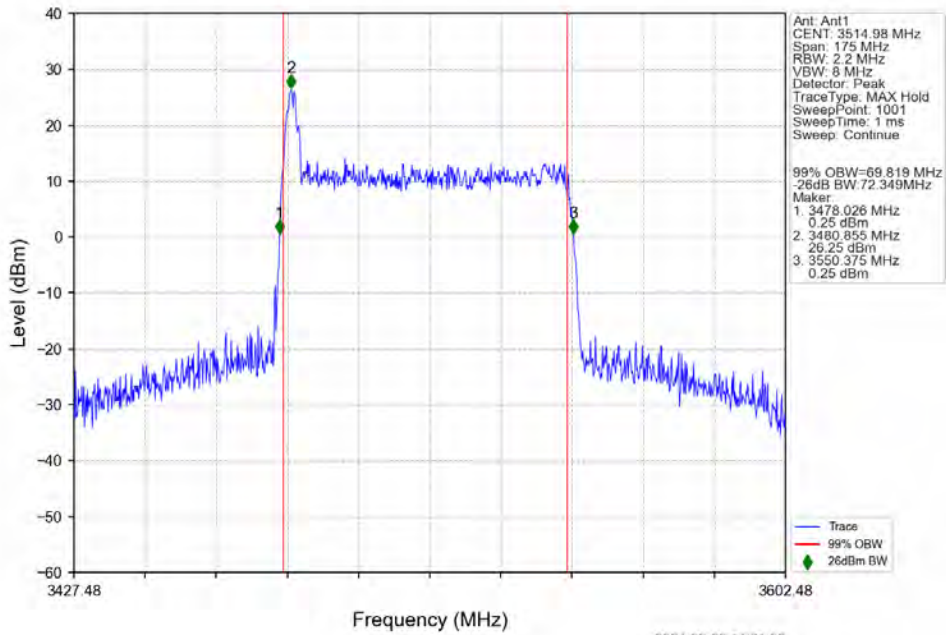
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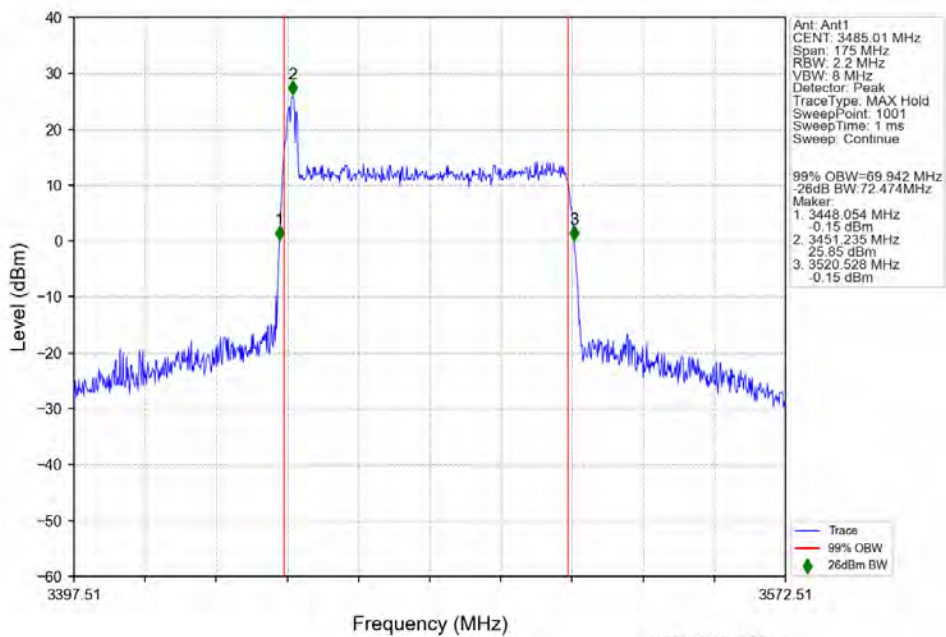
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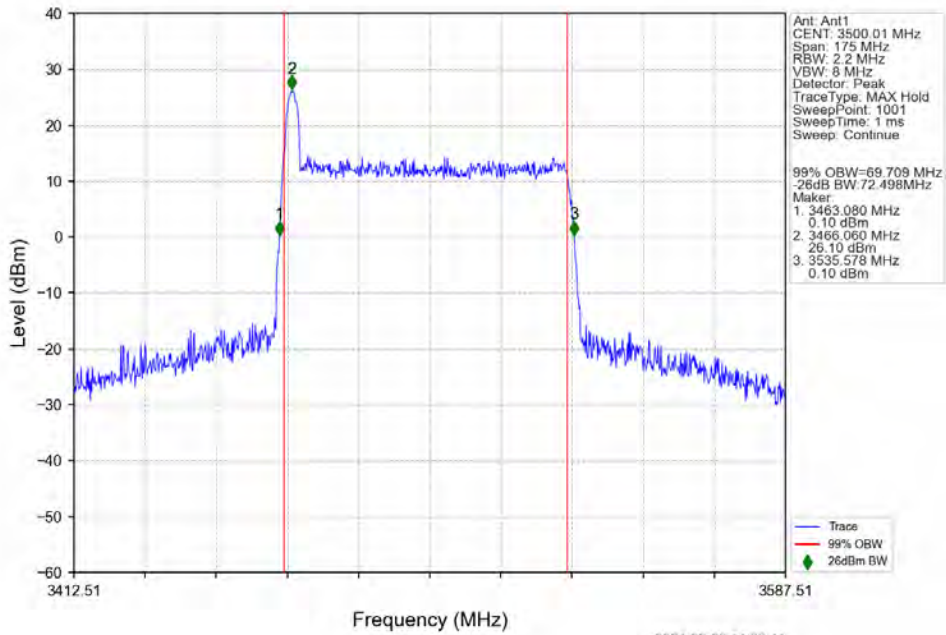
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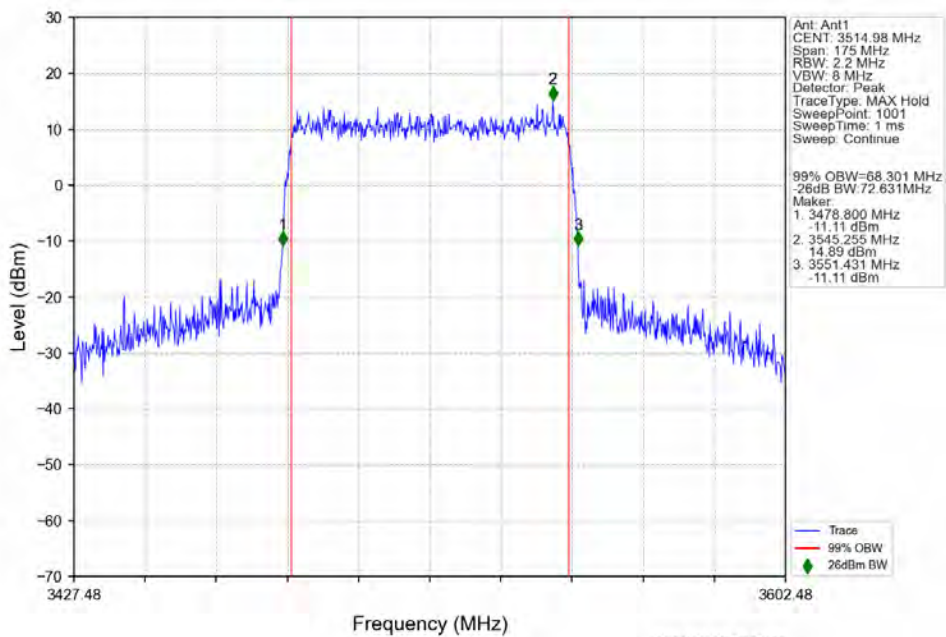
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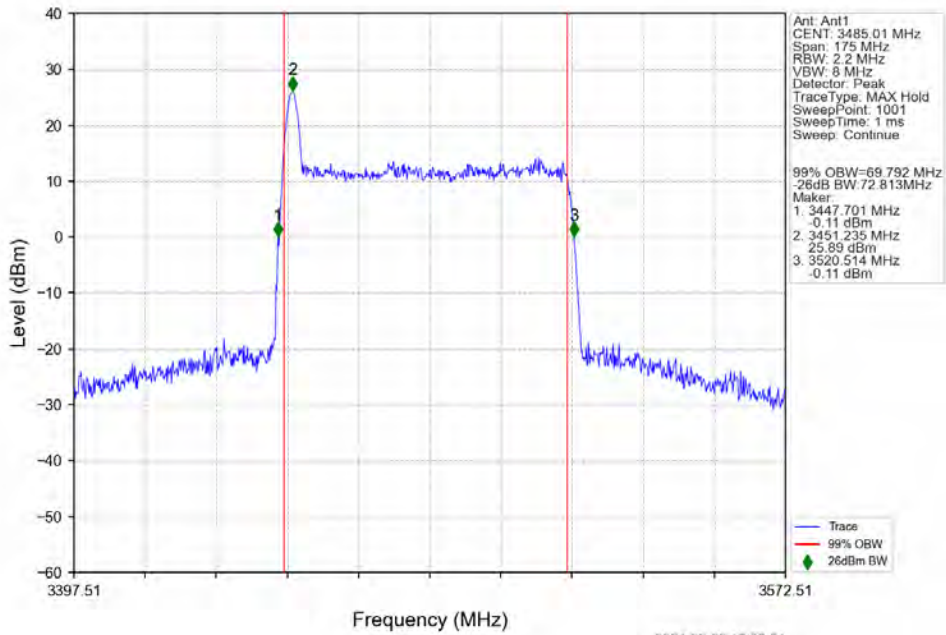
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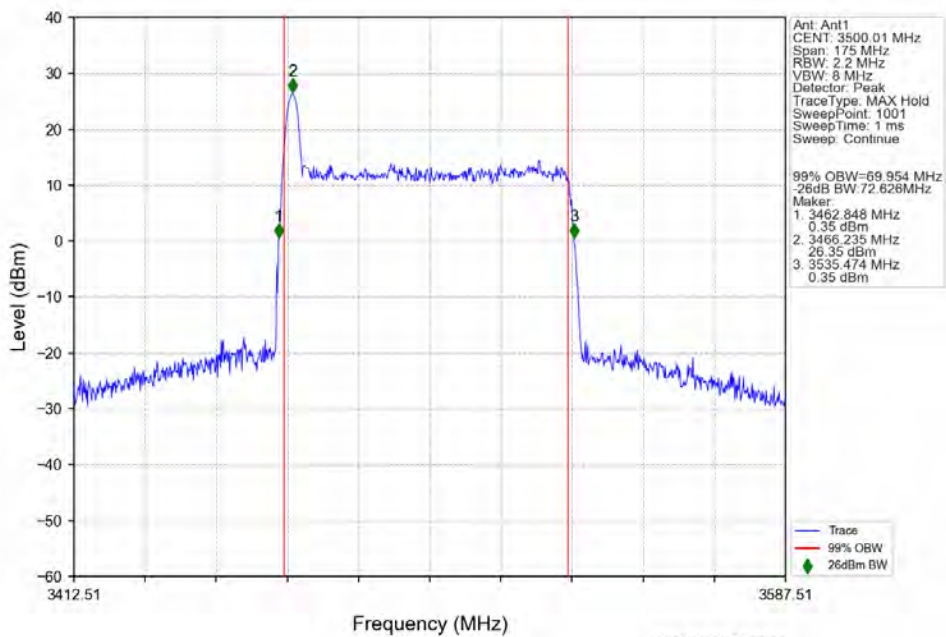
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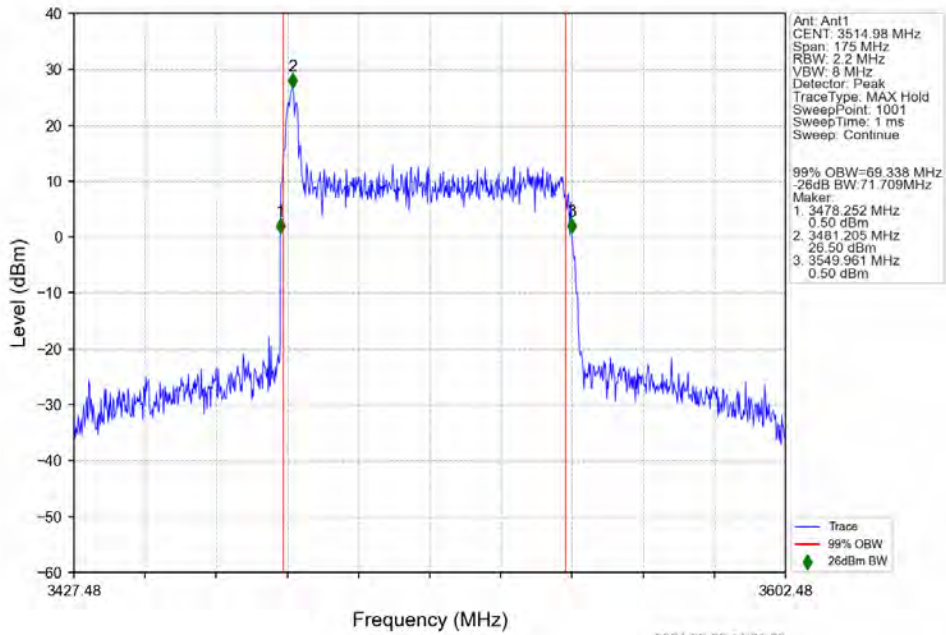
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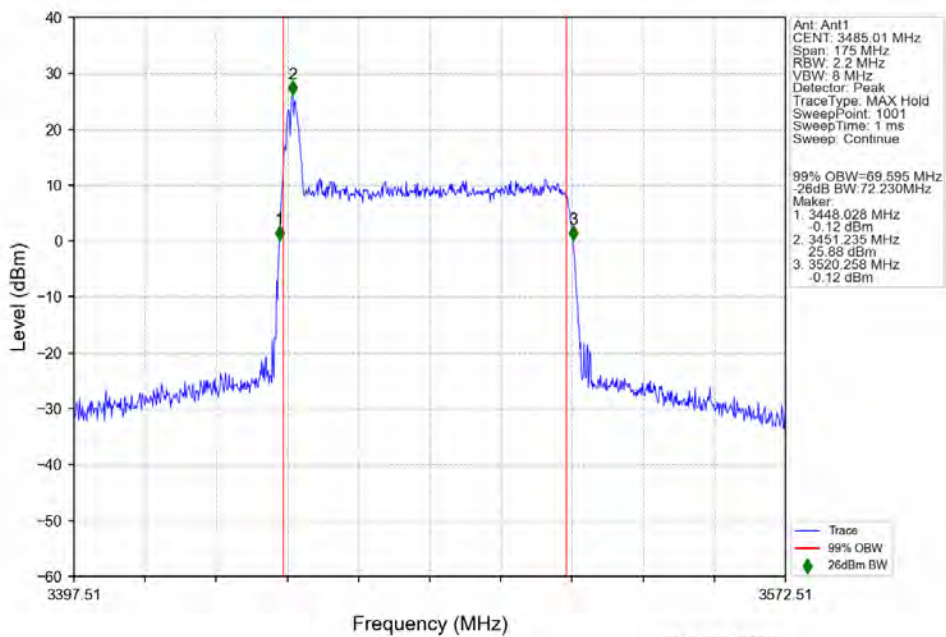
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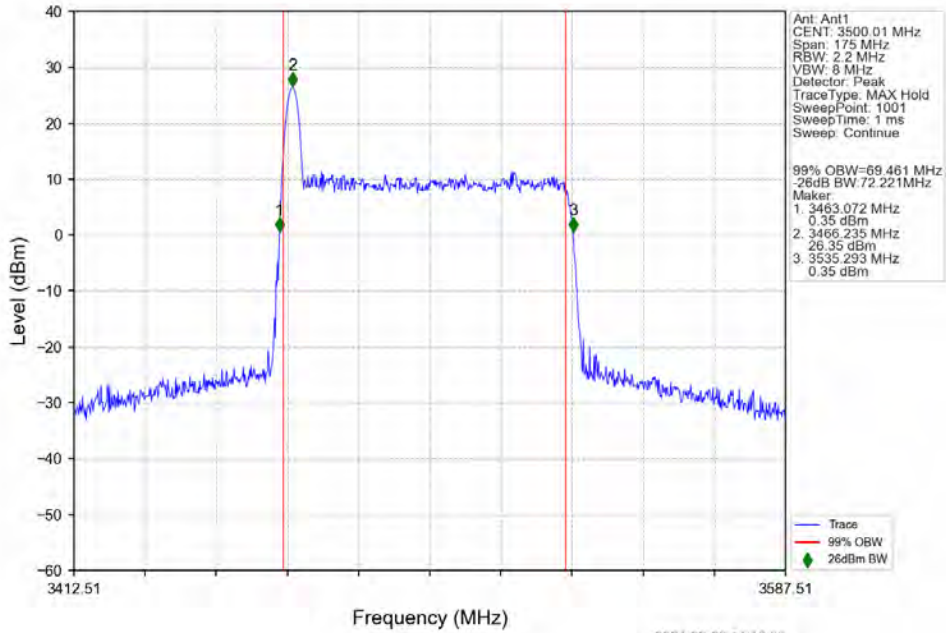
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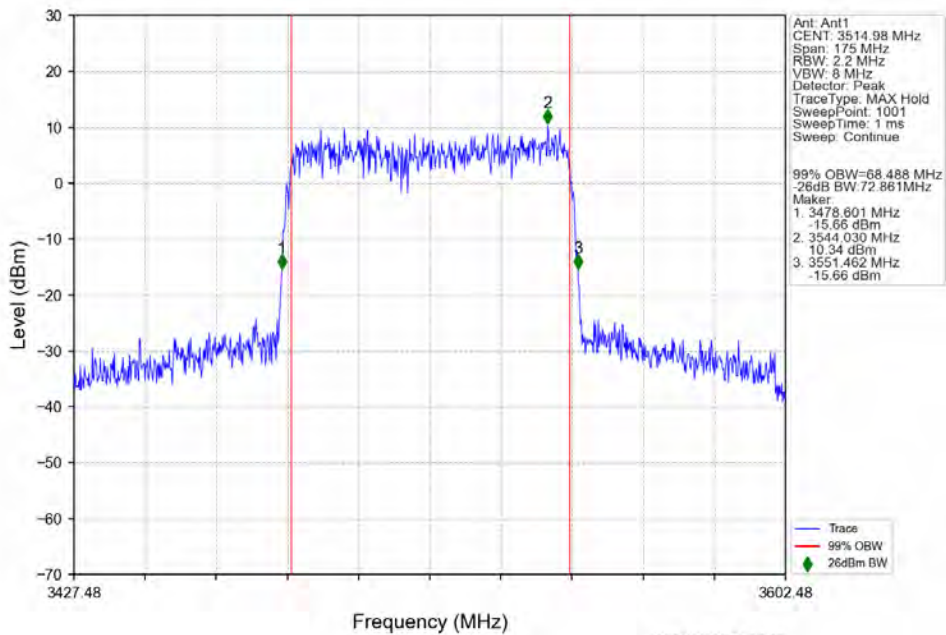
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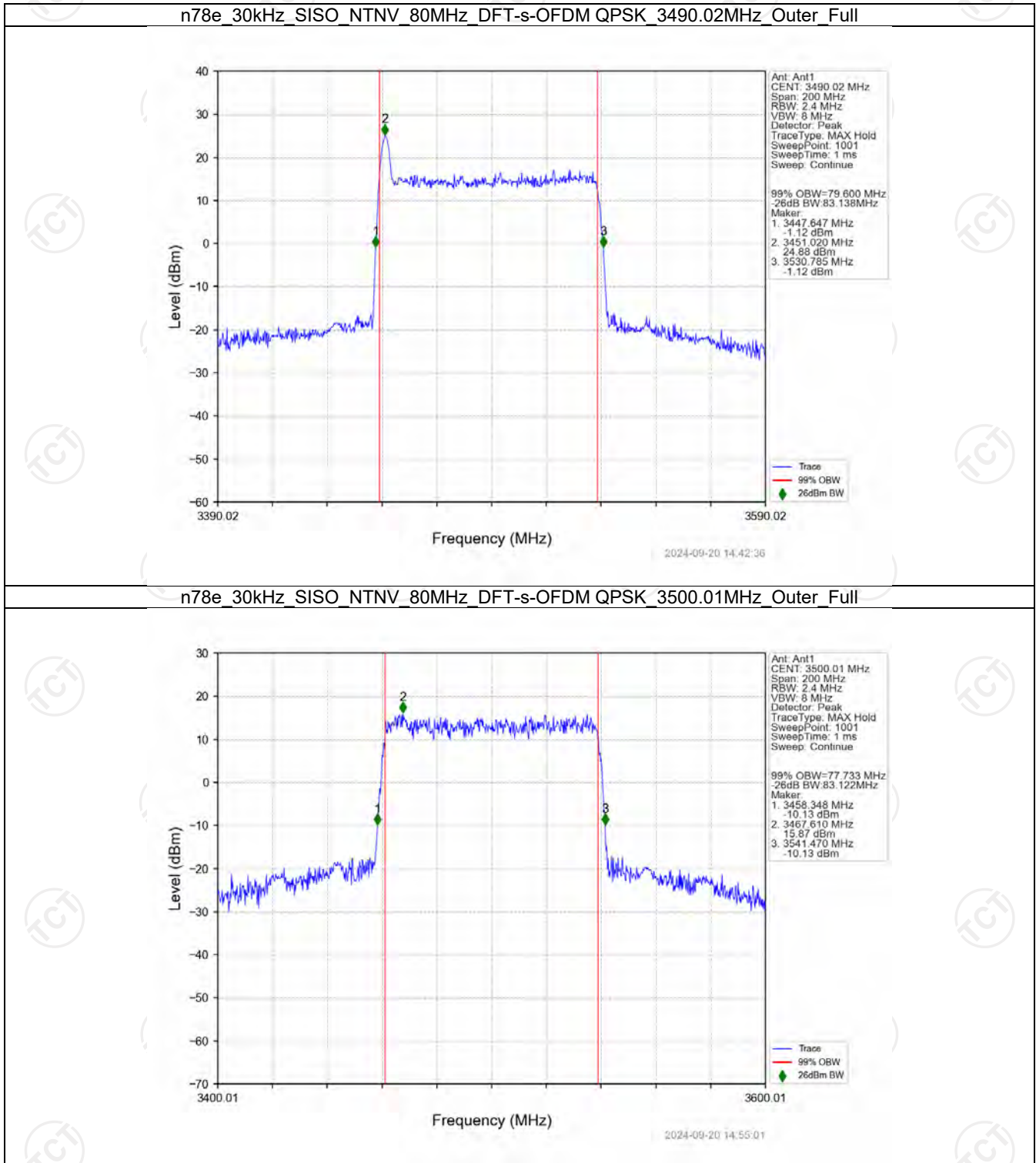
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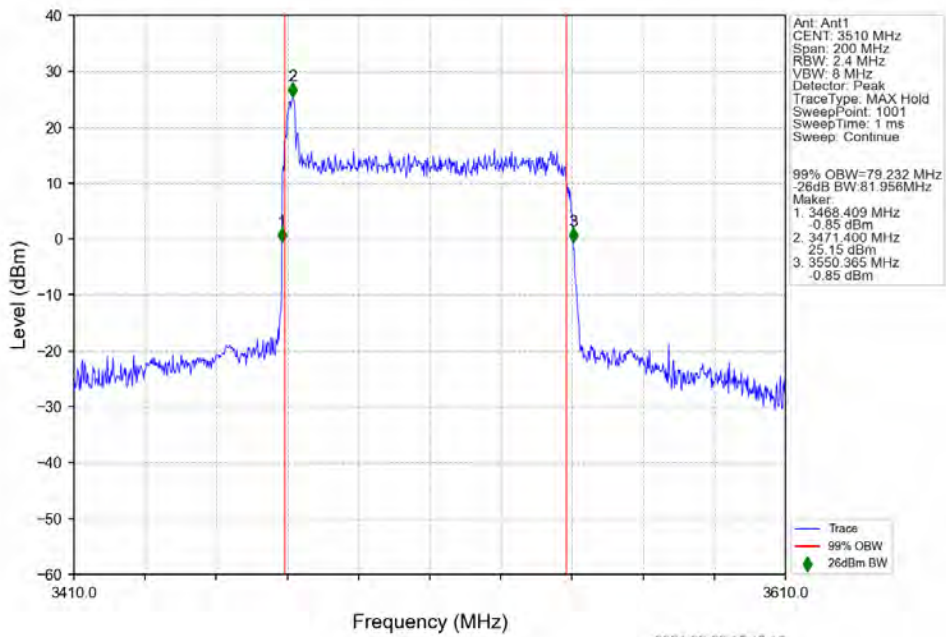
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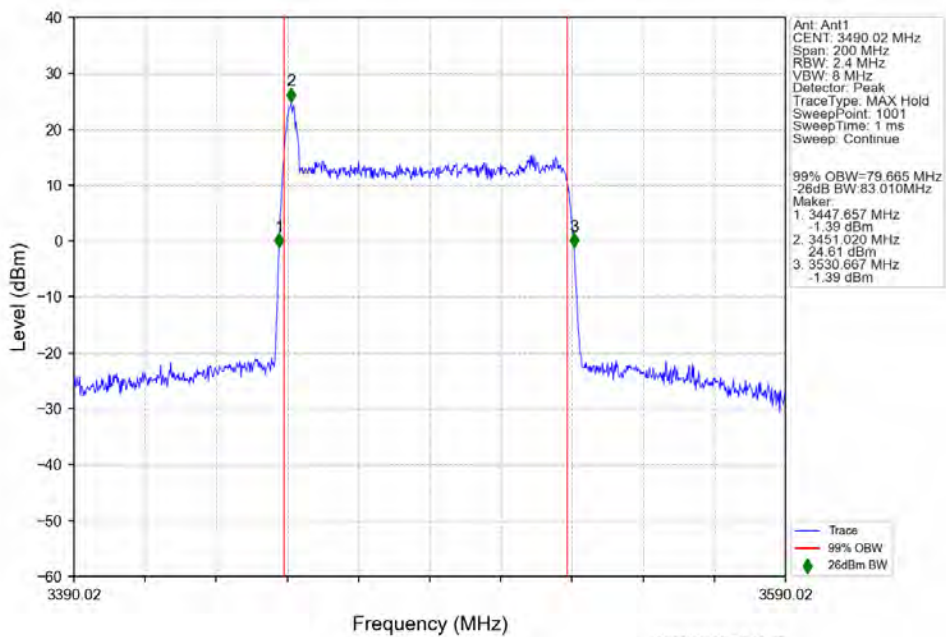
4.2.17 30k_SISO_80MHz_NTNV



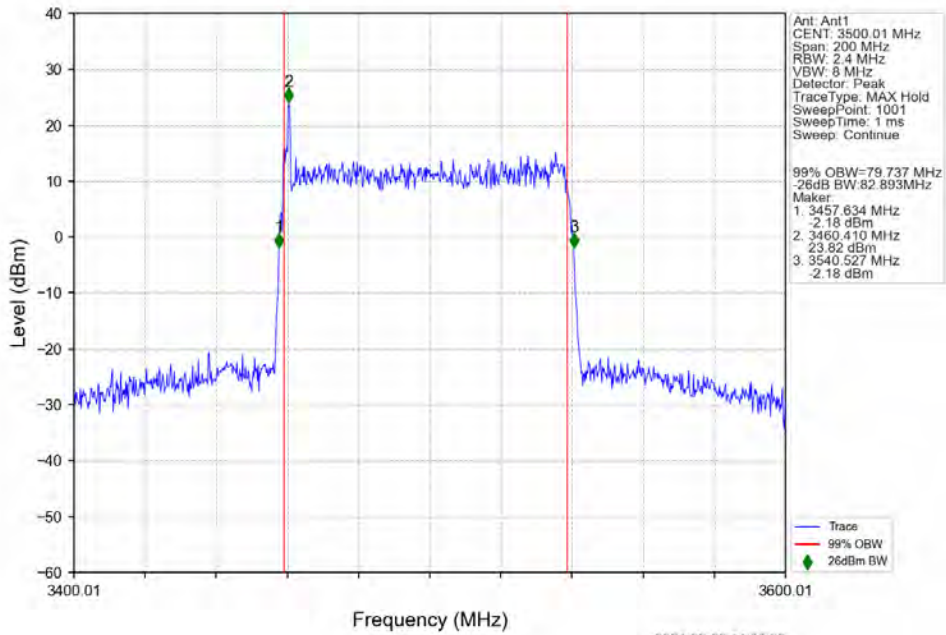
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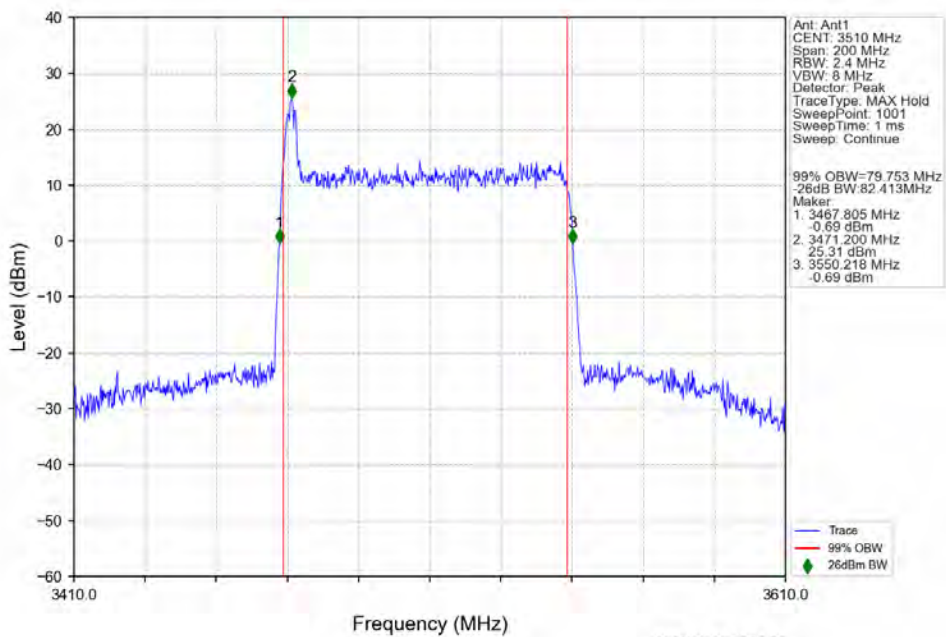
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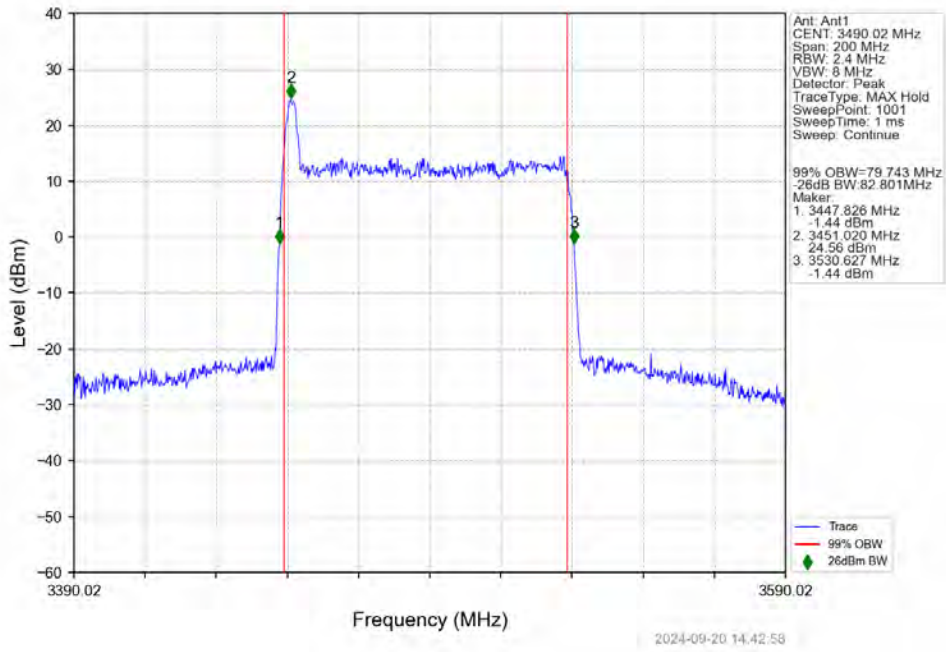
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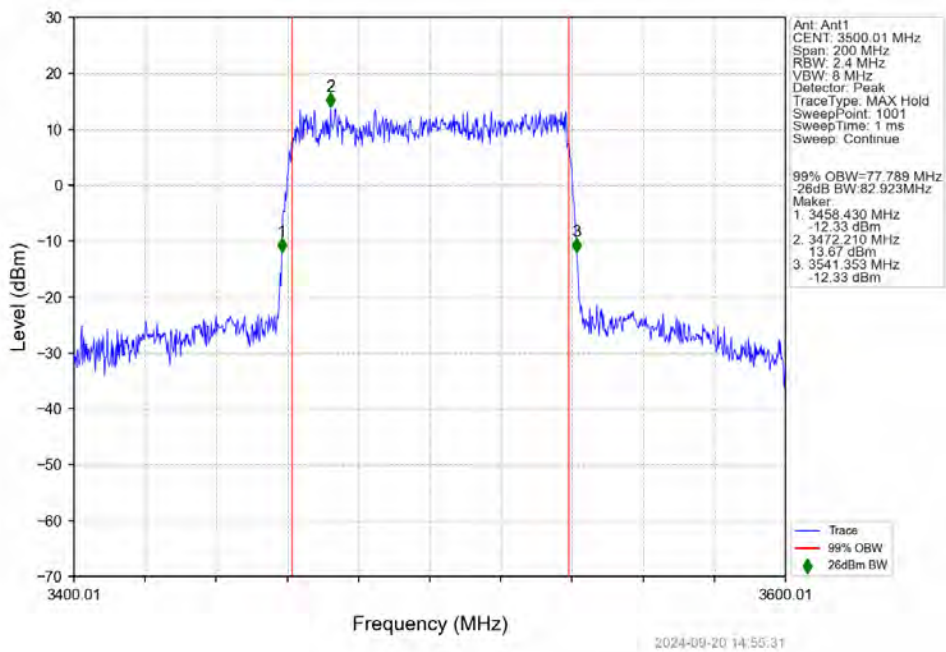
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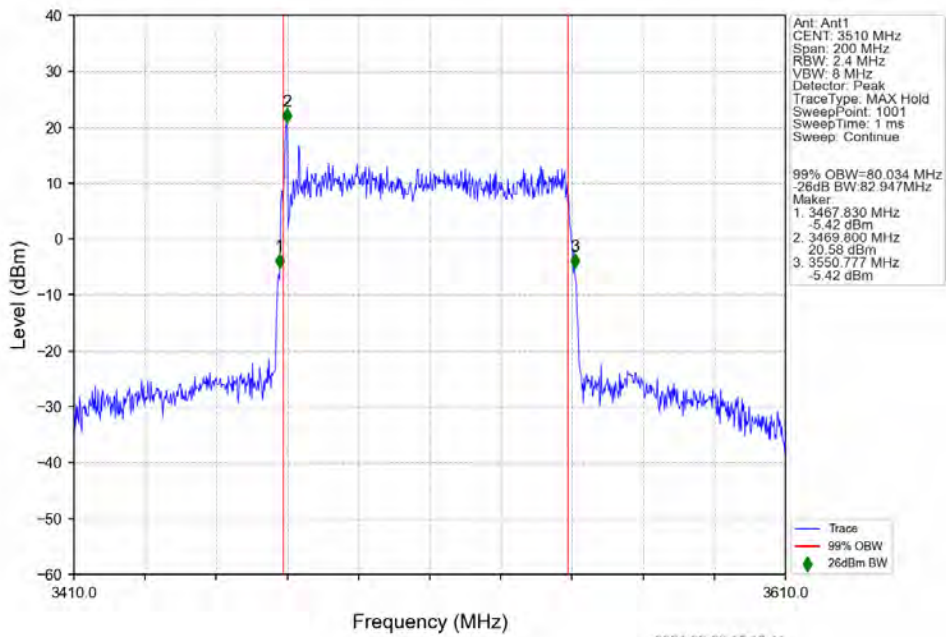
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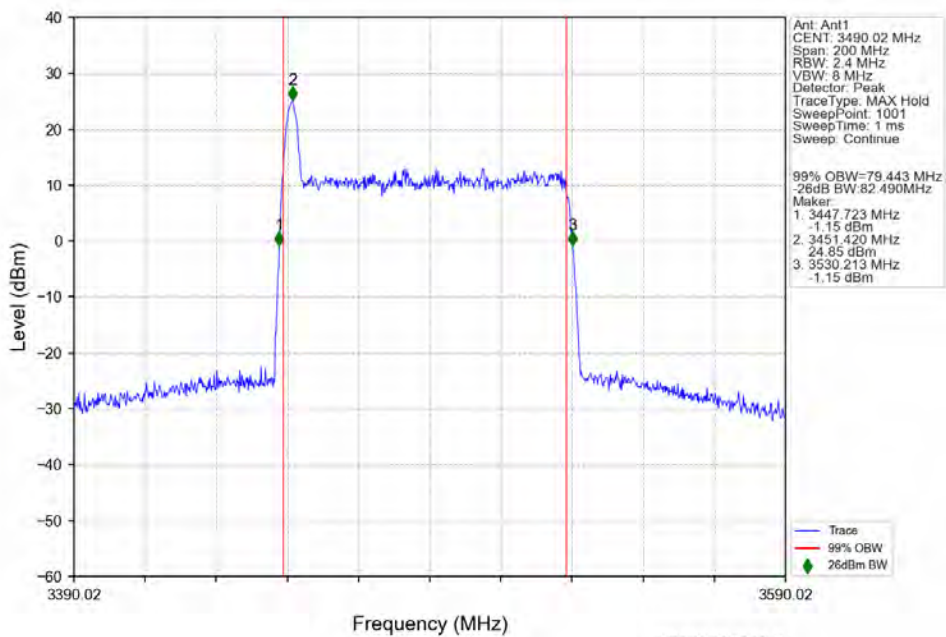
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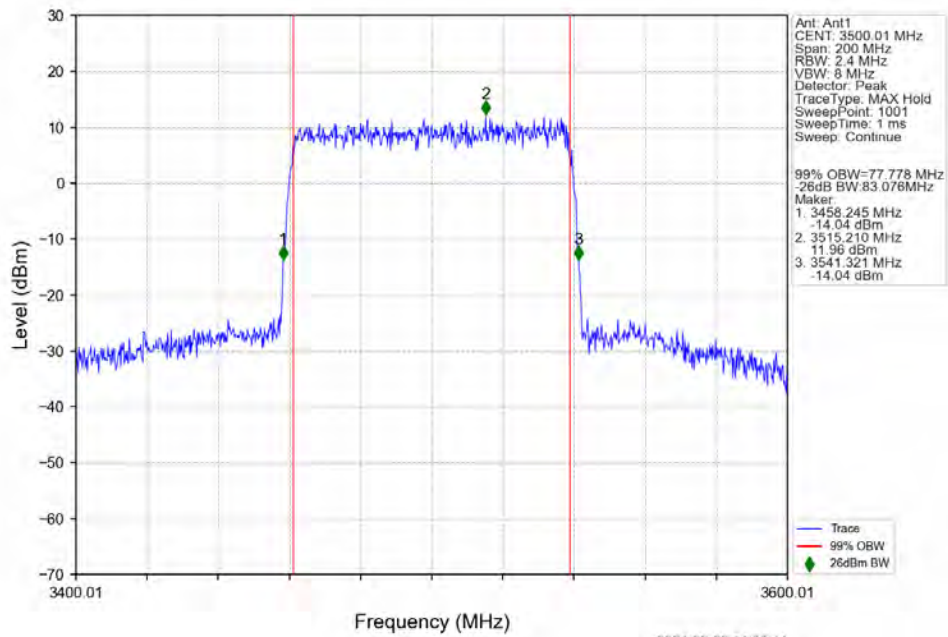
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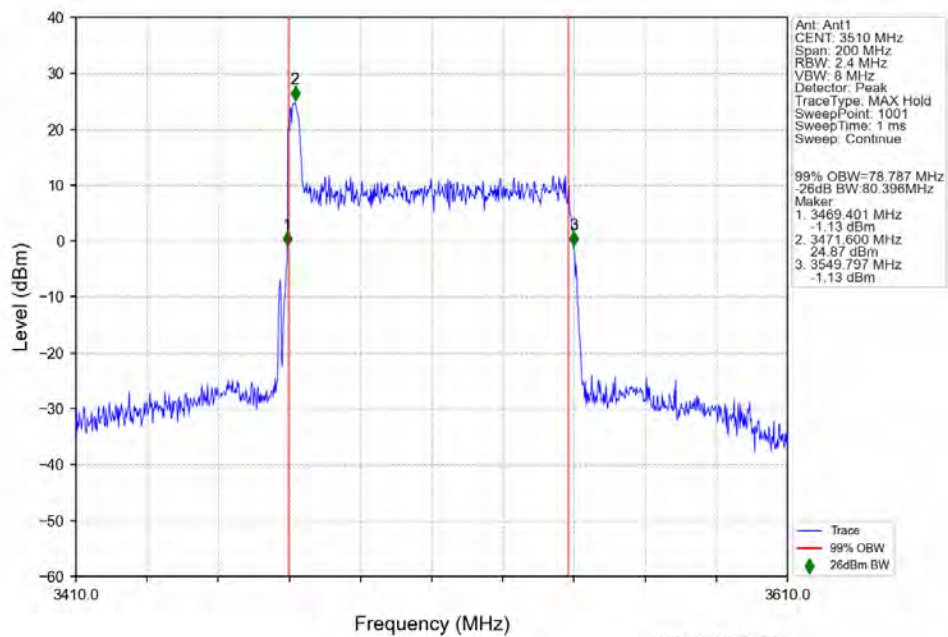
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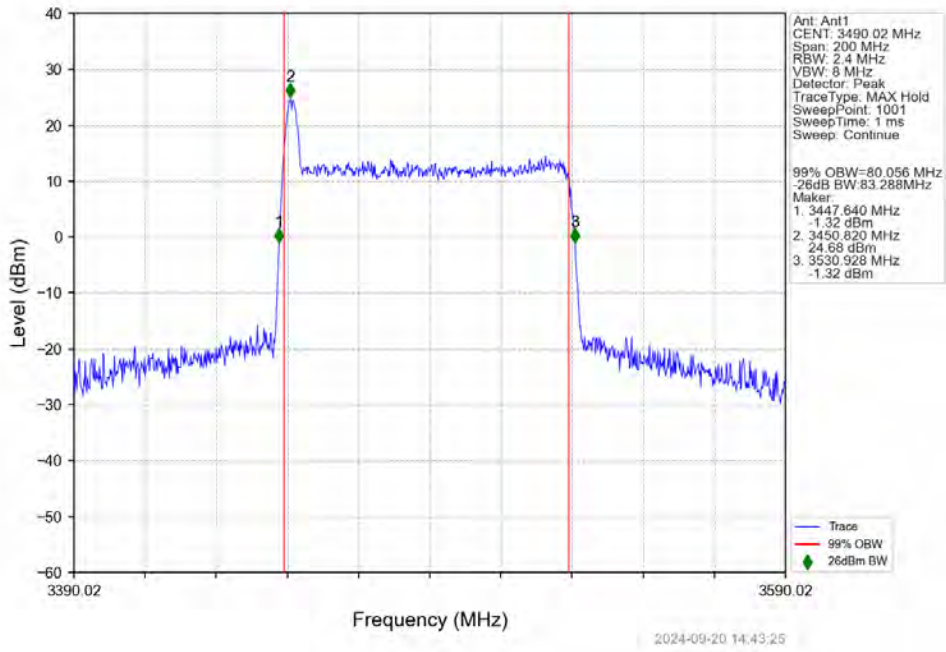
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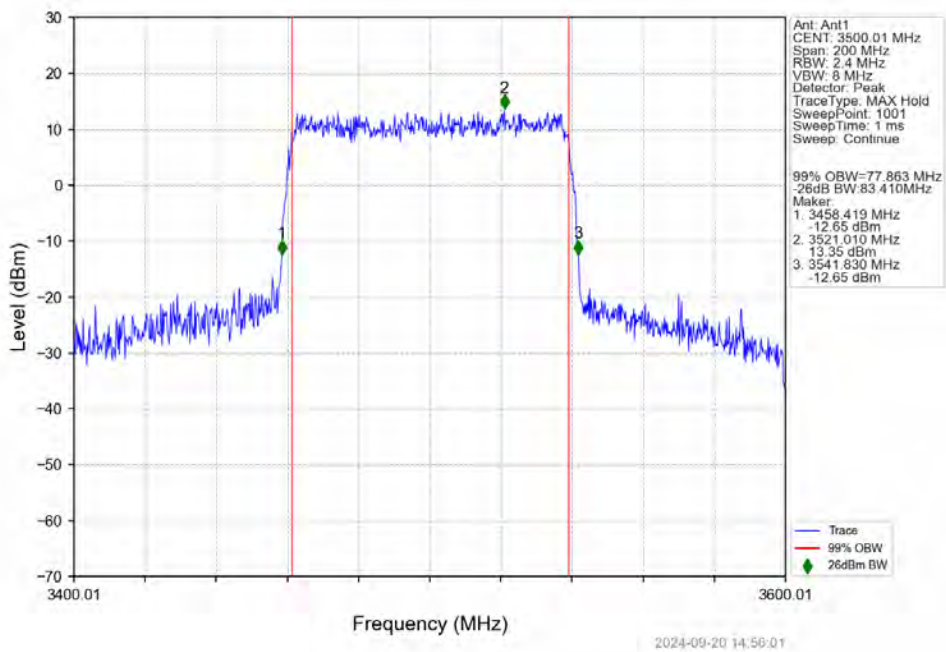
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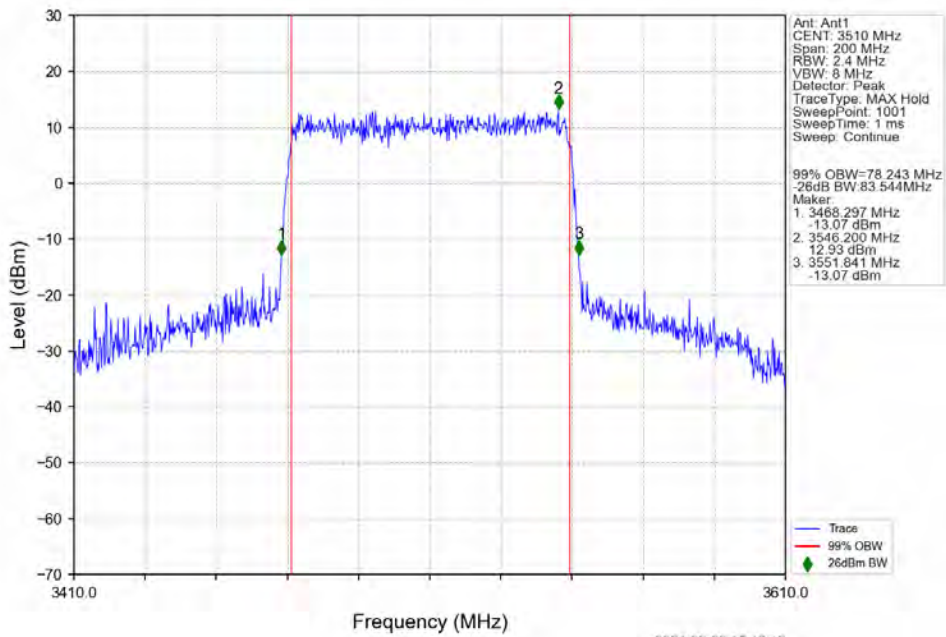
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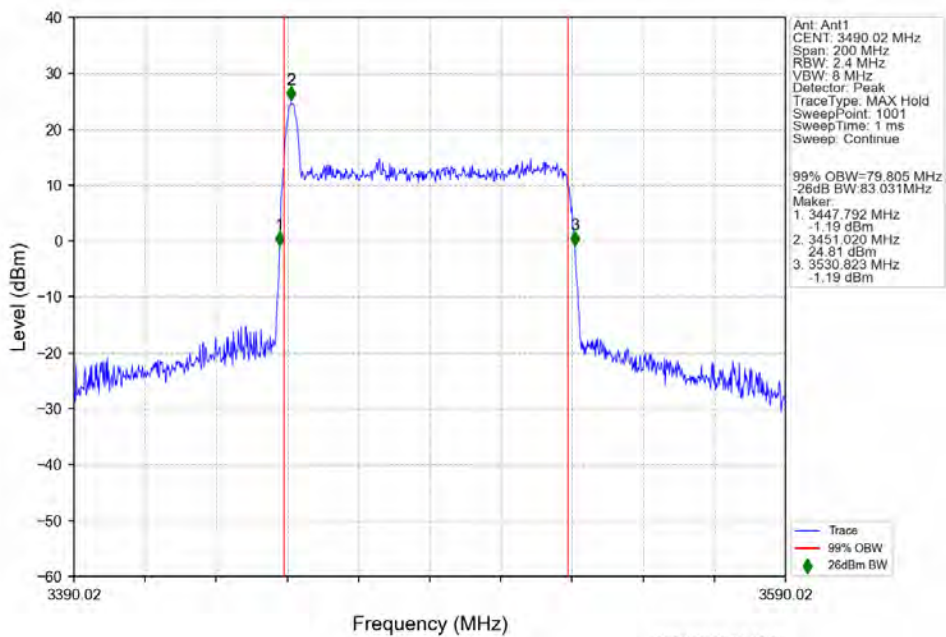
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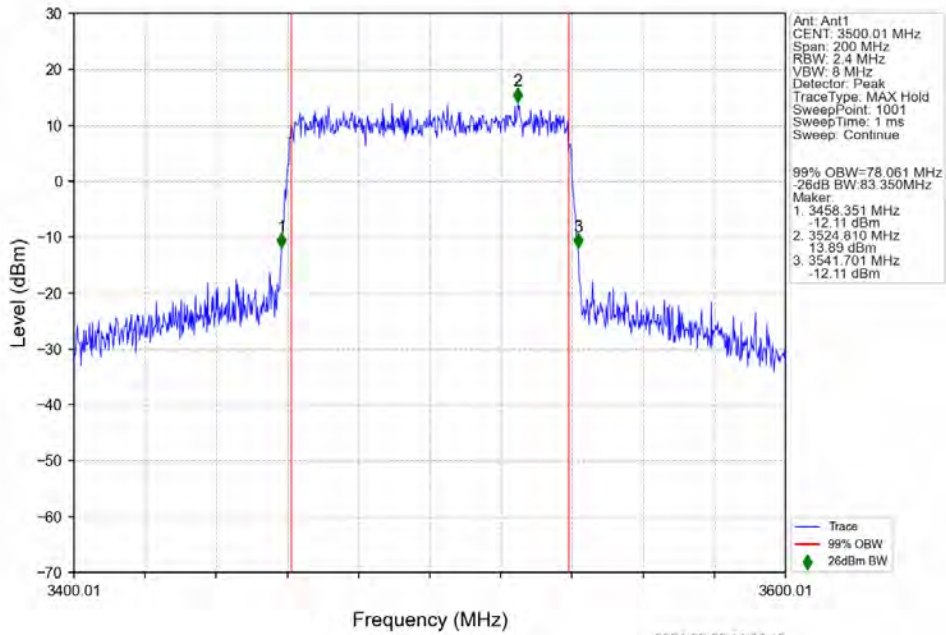
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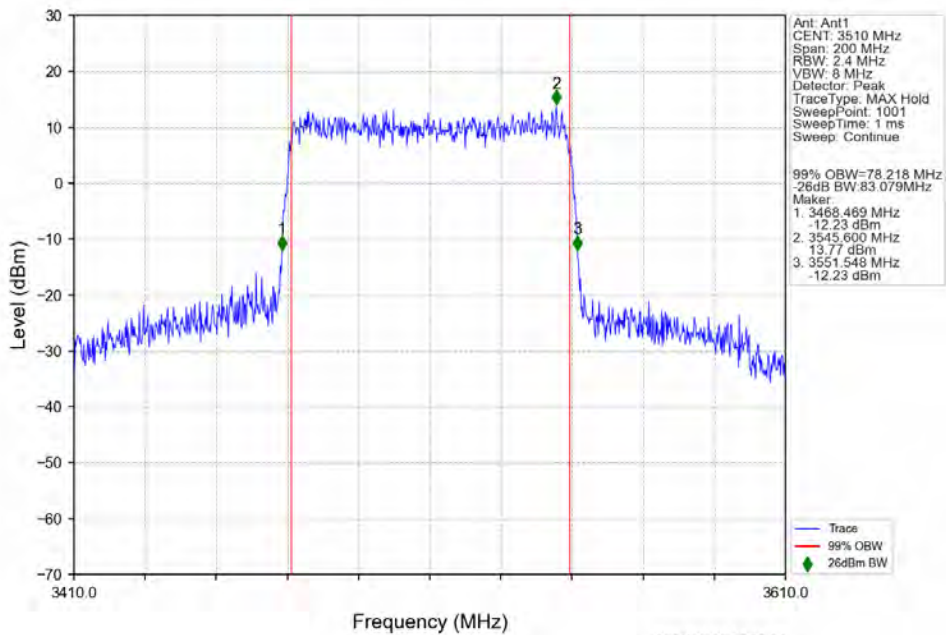
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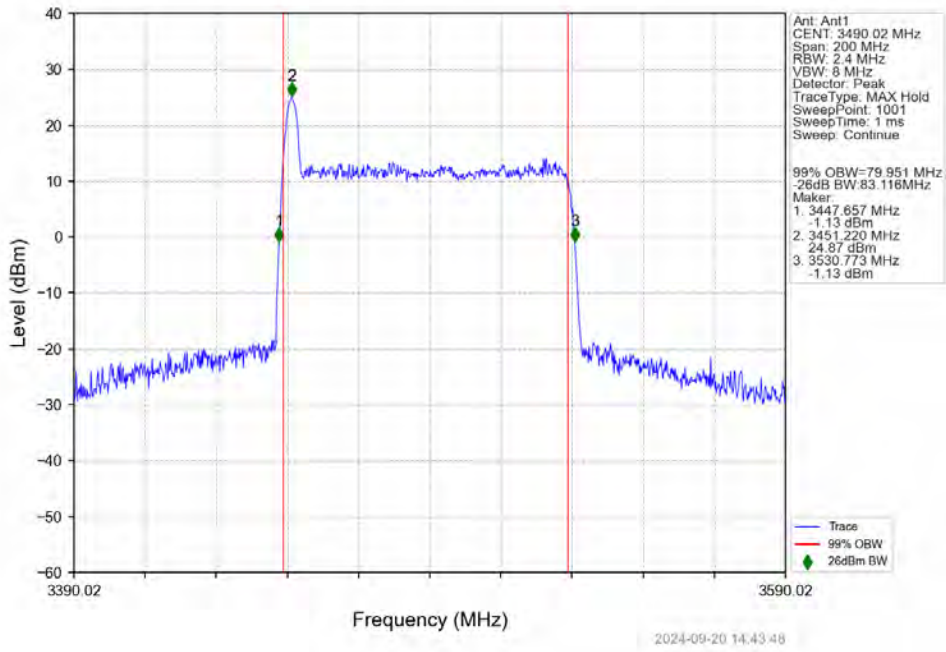
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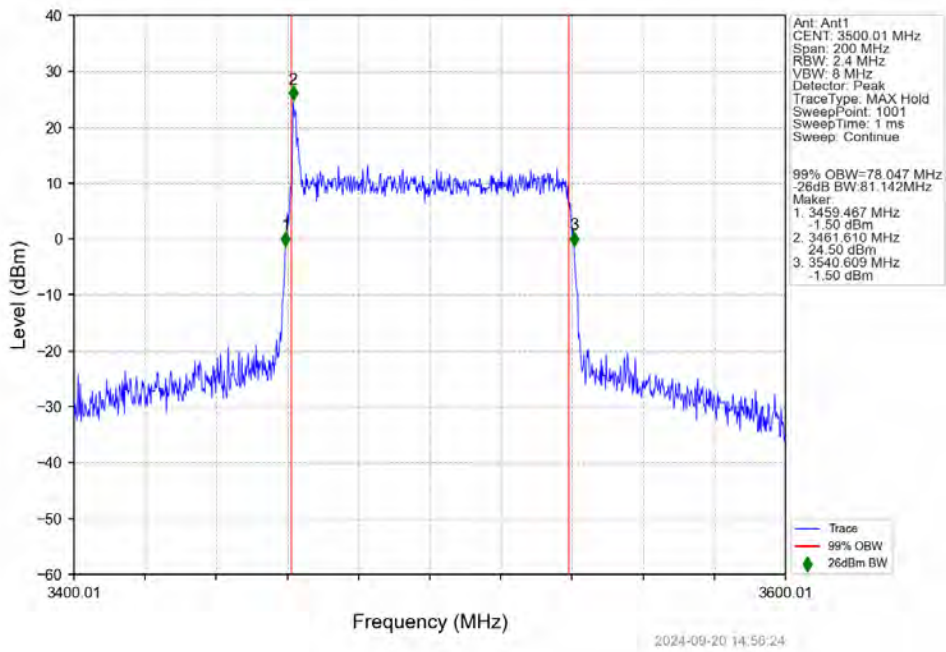
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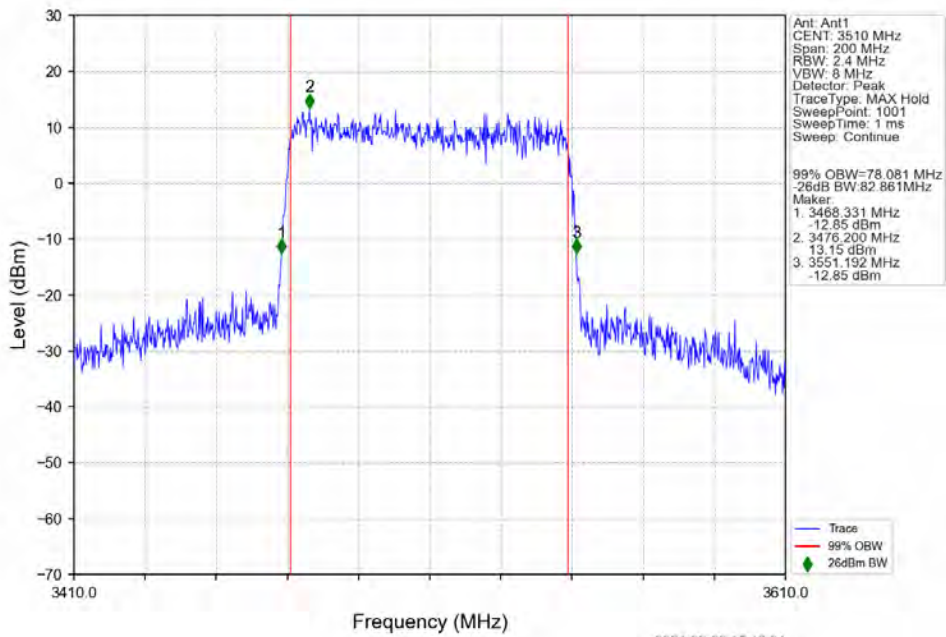
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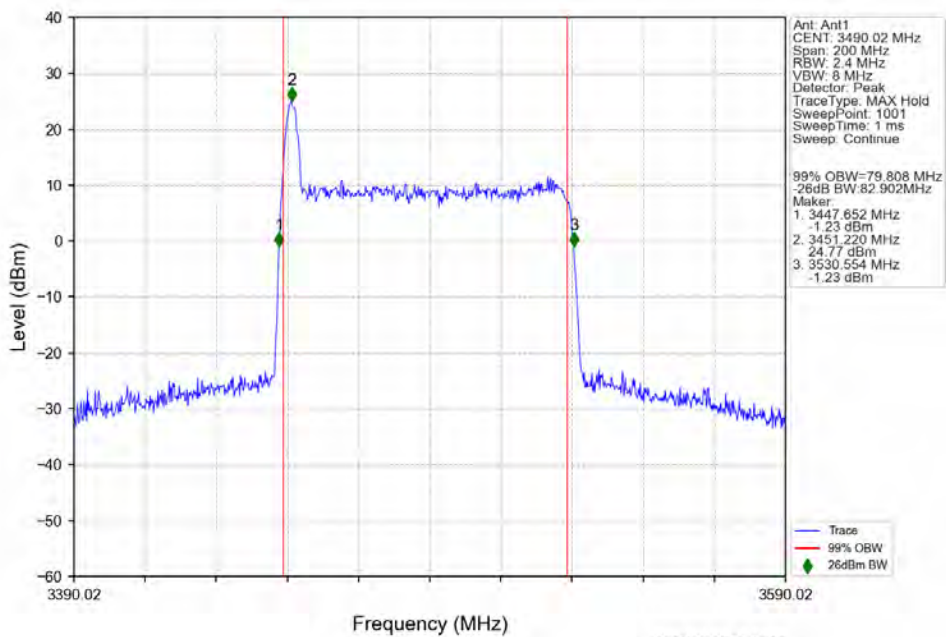
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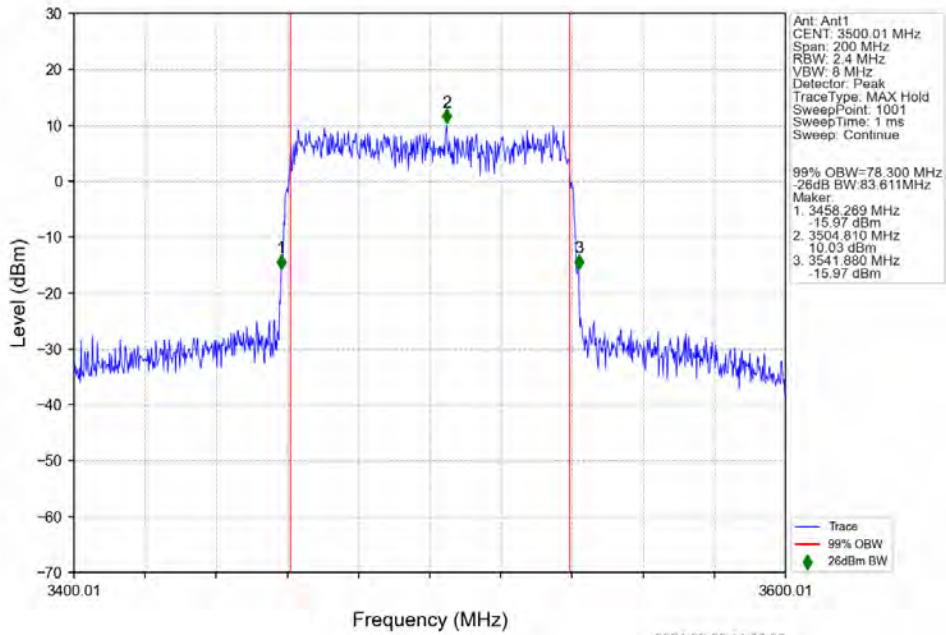
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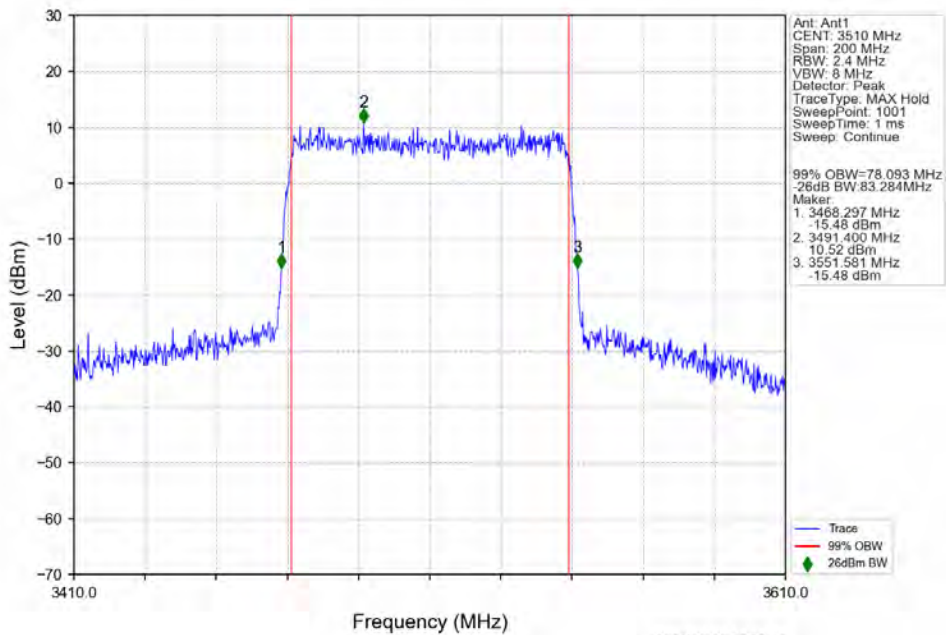
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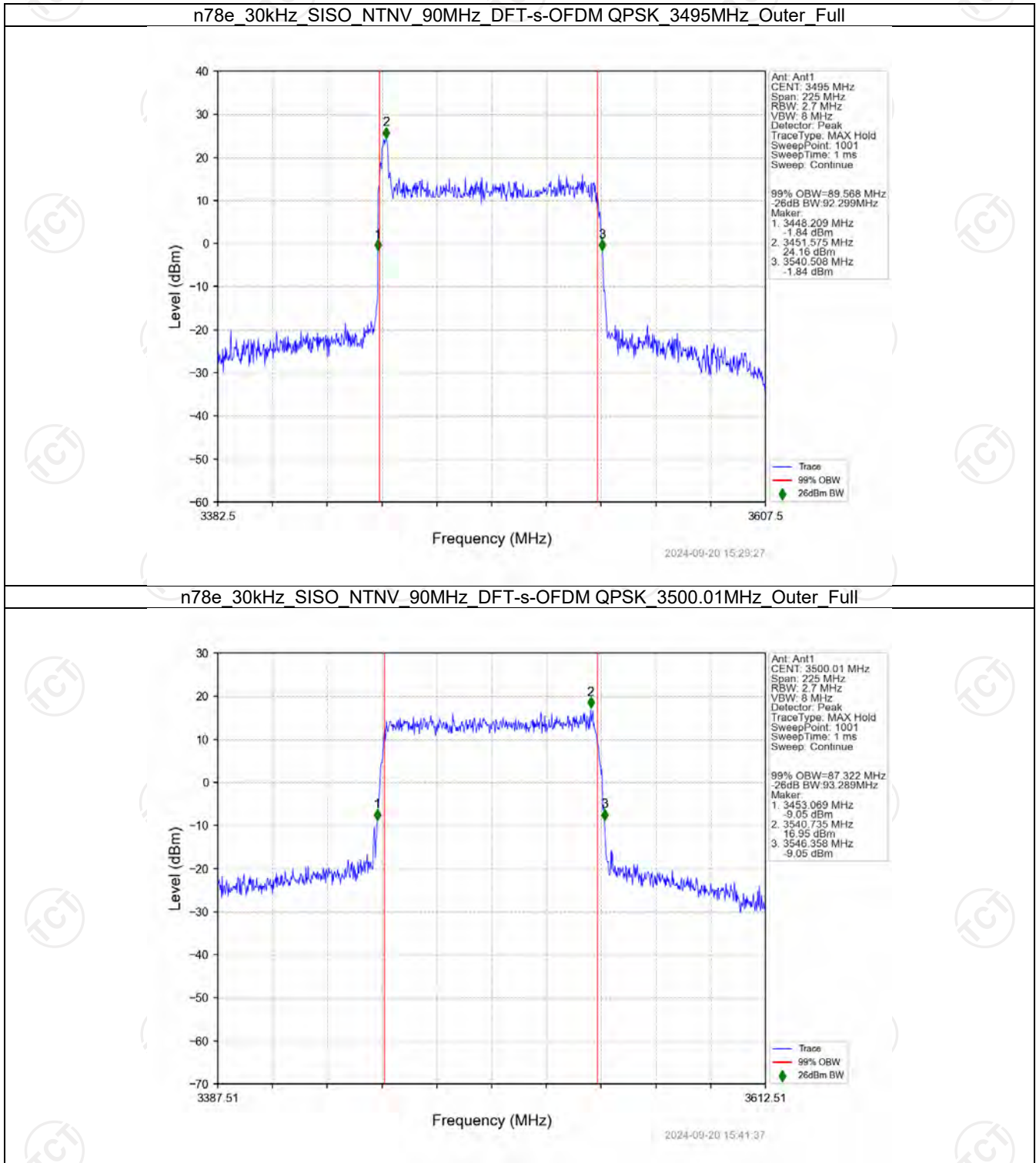
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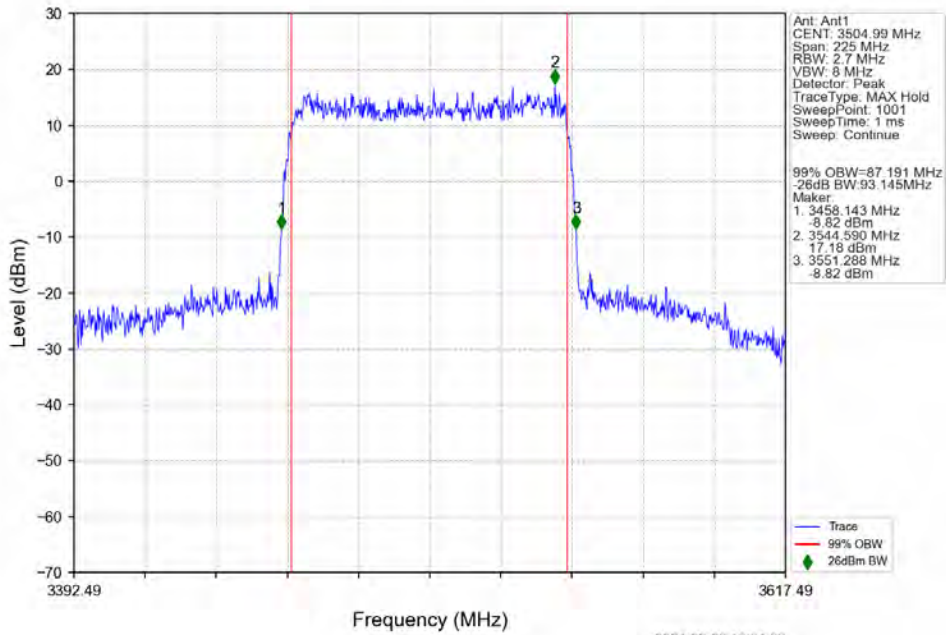
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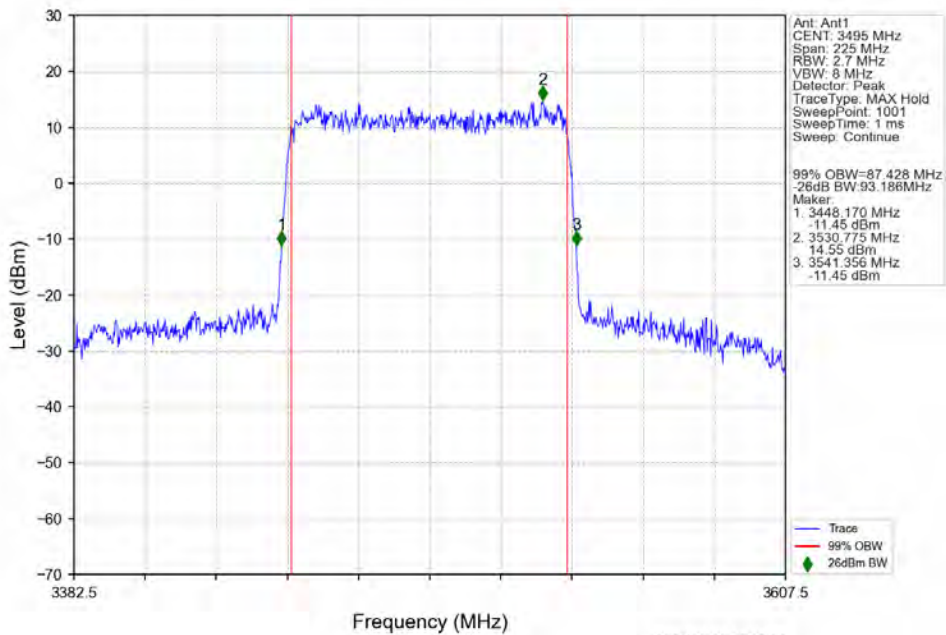
4.2.18 30k_SISO_90MHz_NTNV



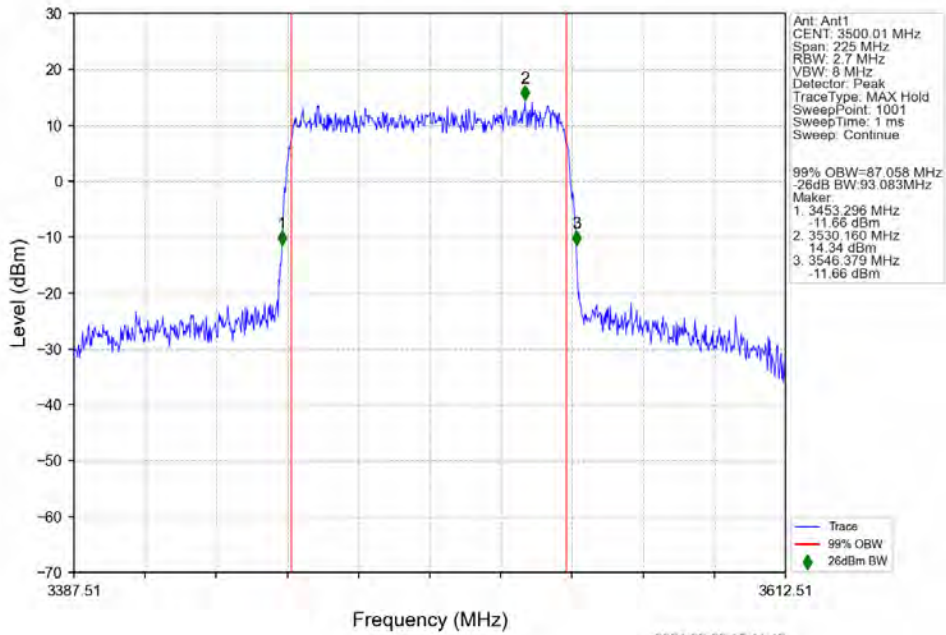
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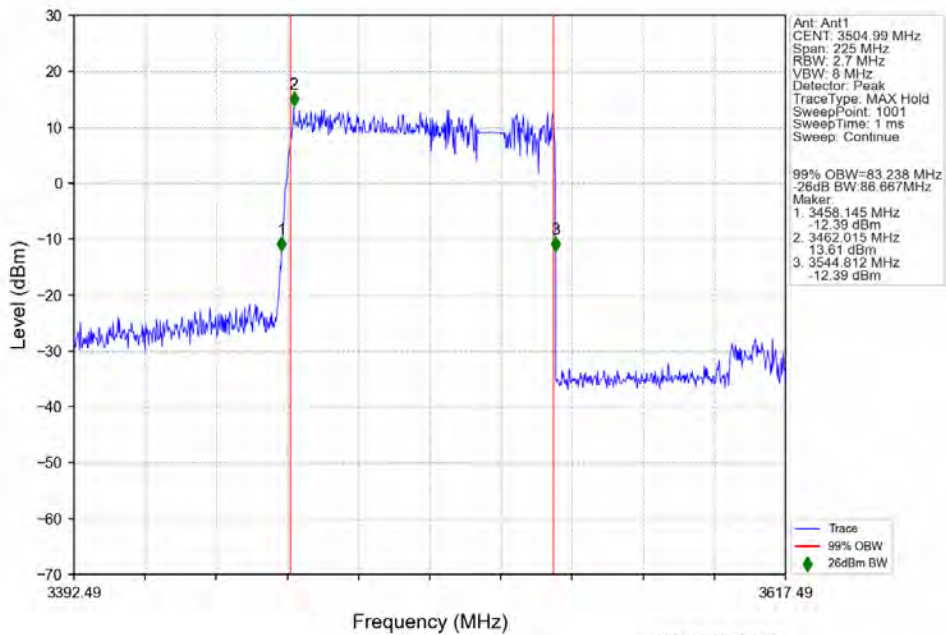
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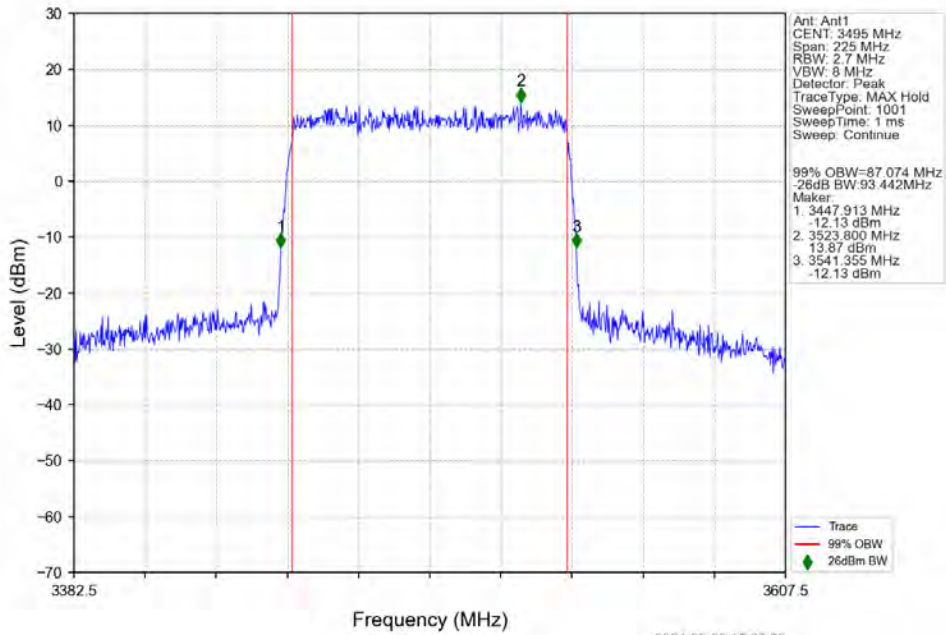
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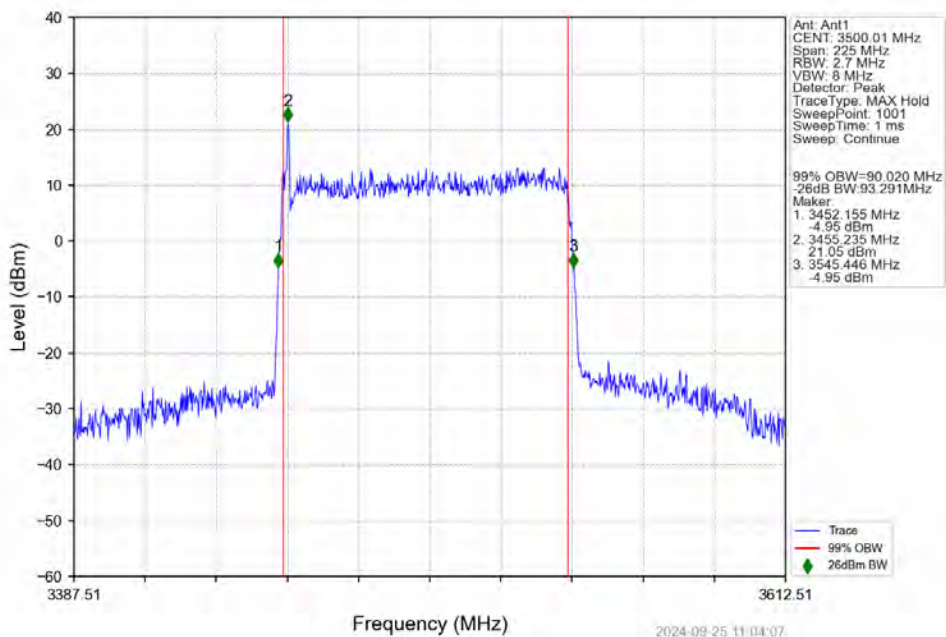
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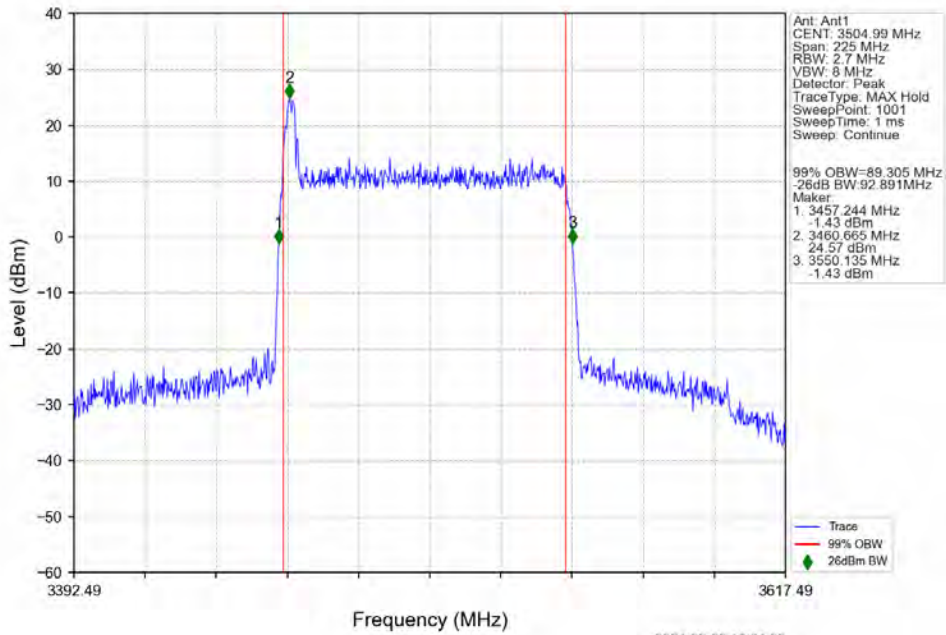
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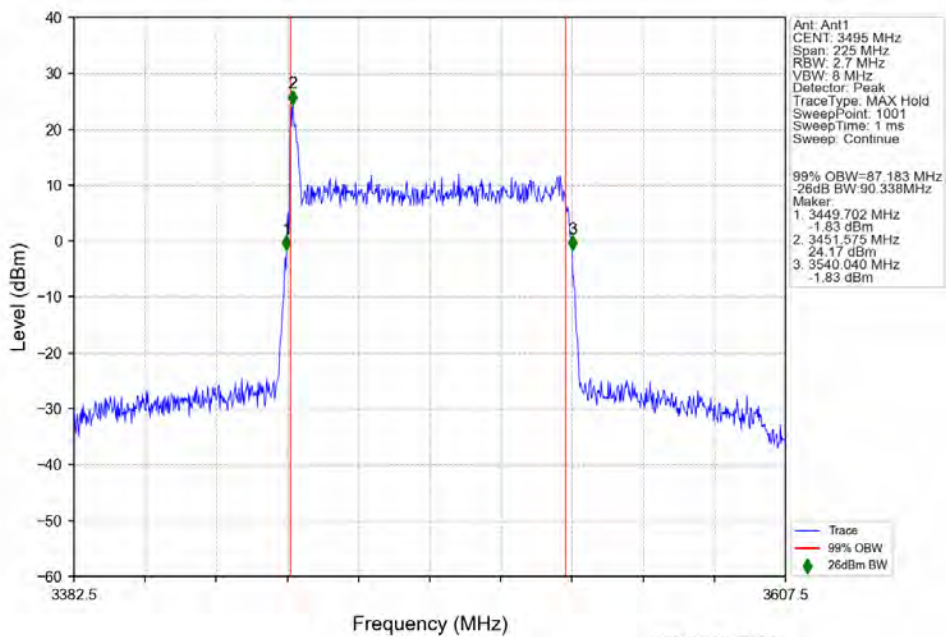
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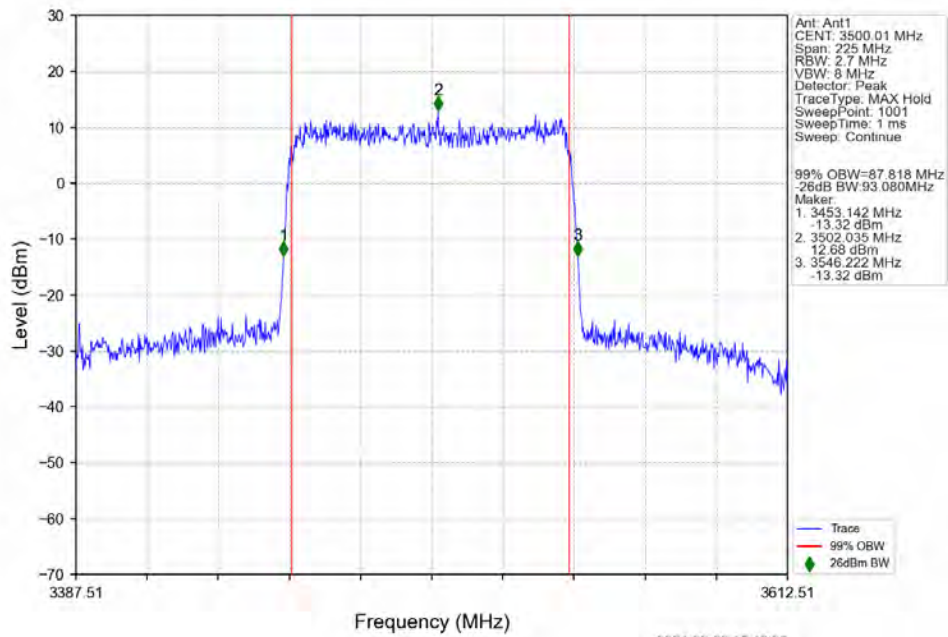
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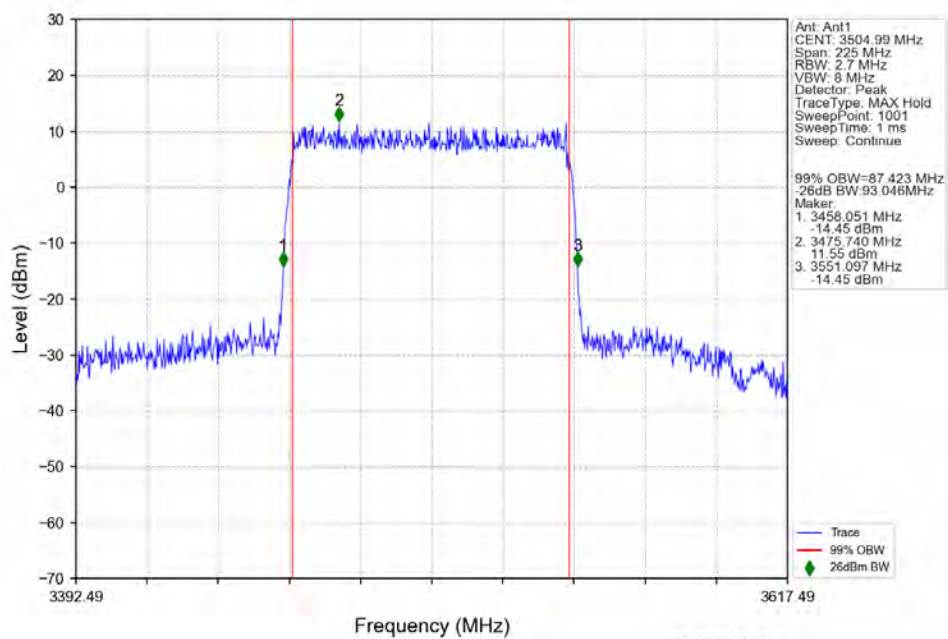
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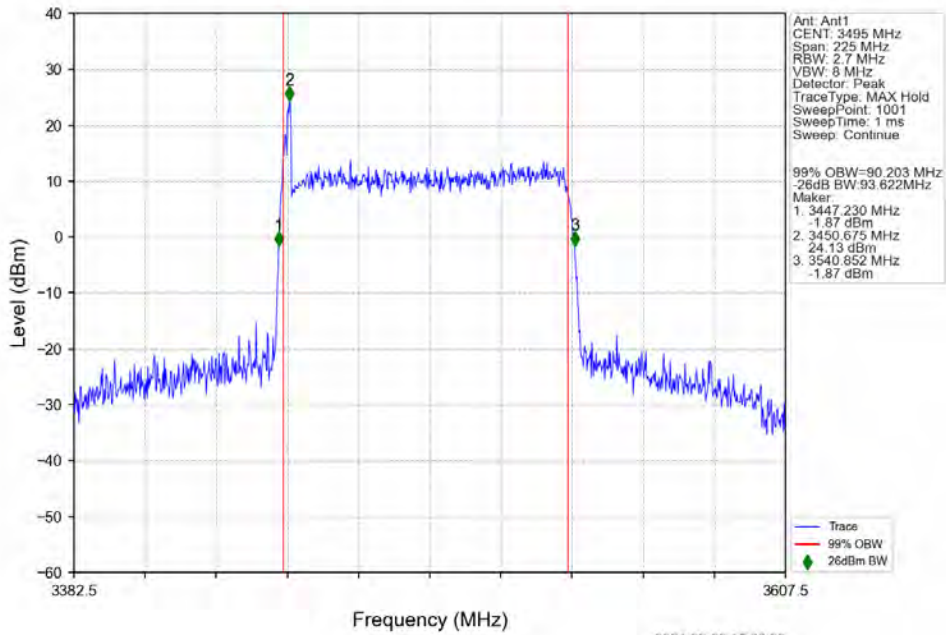
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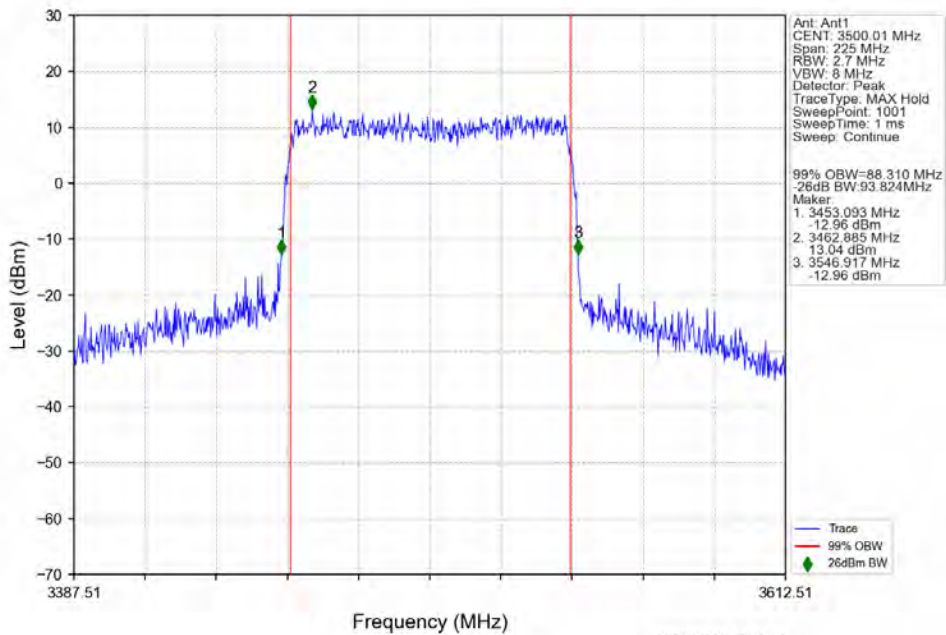
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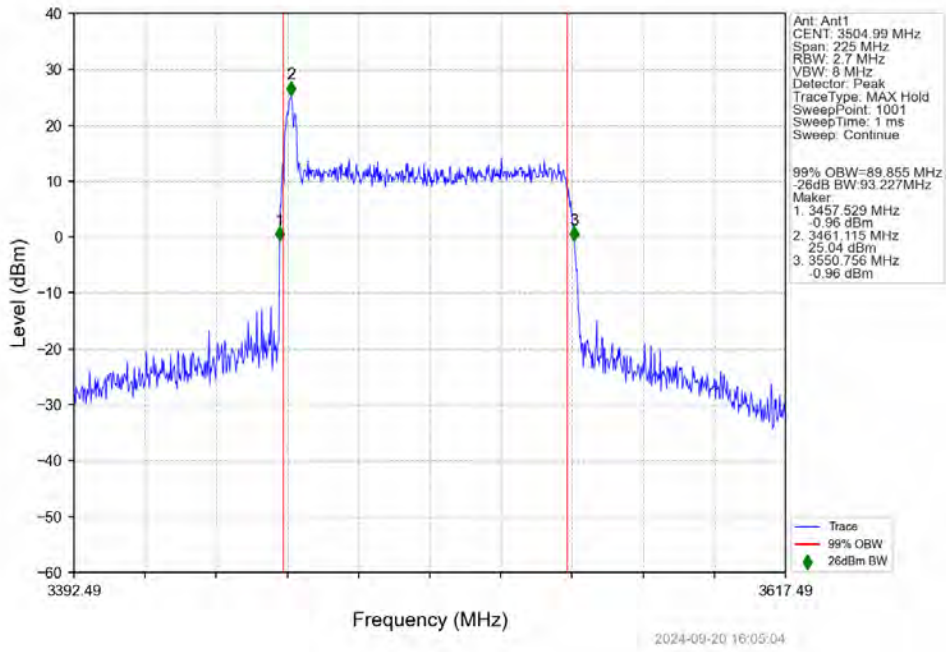
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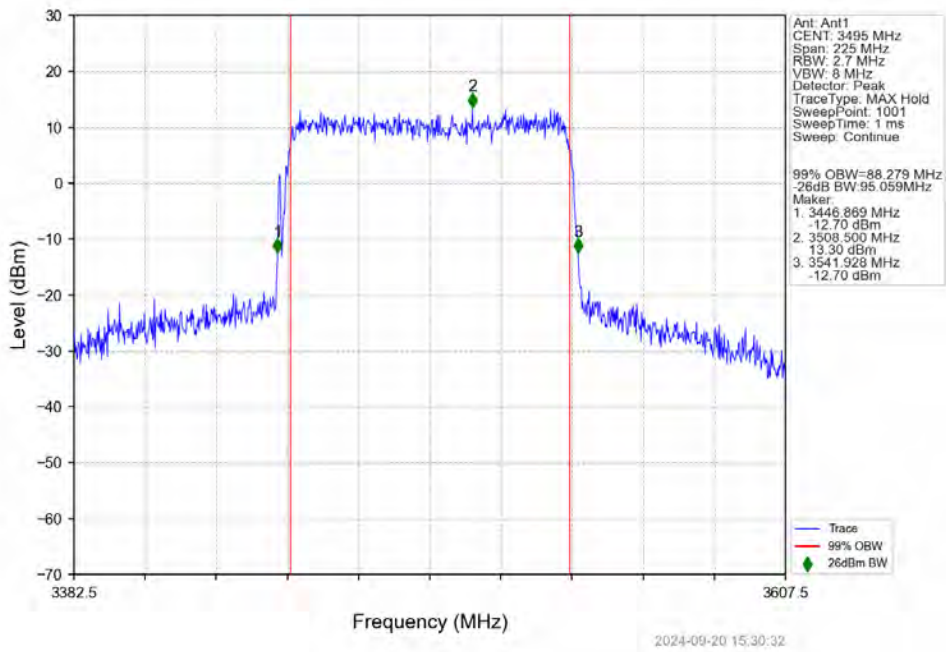
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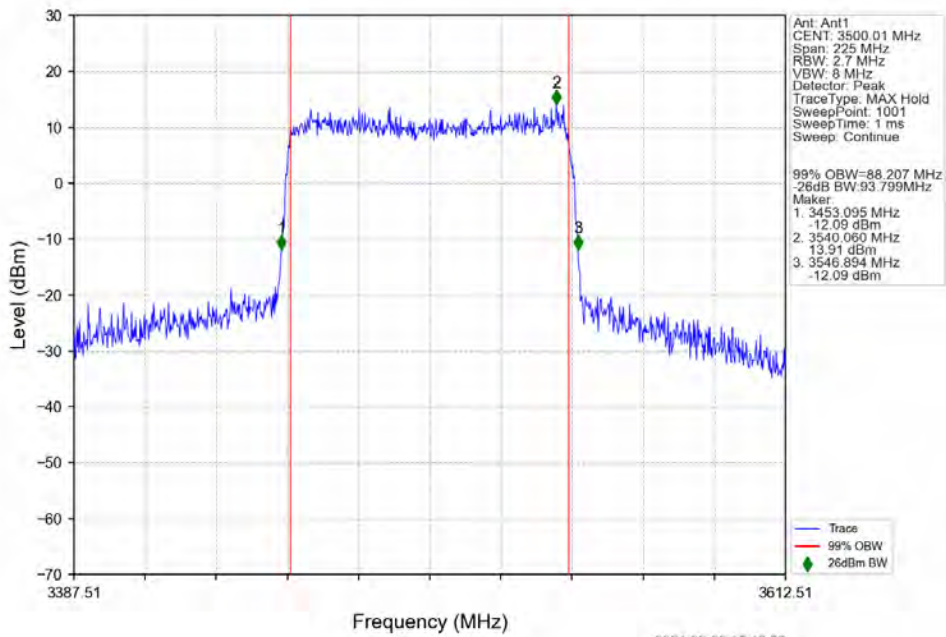
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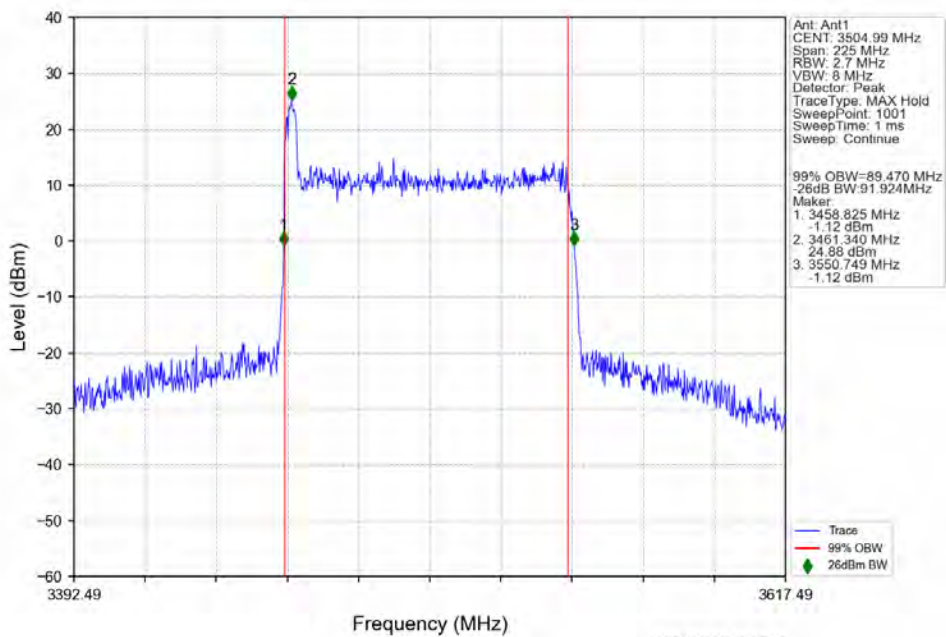
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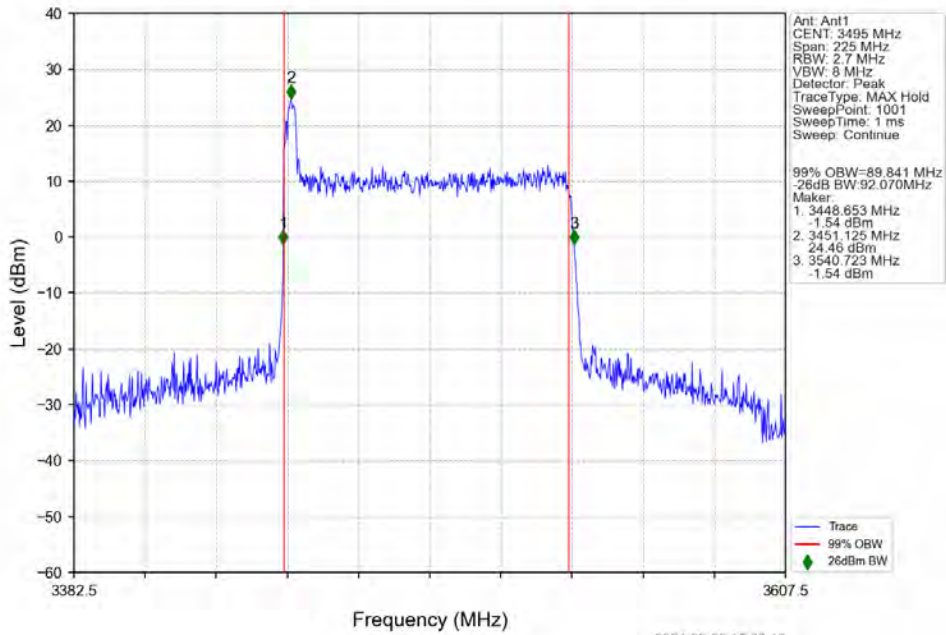
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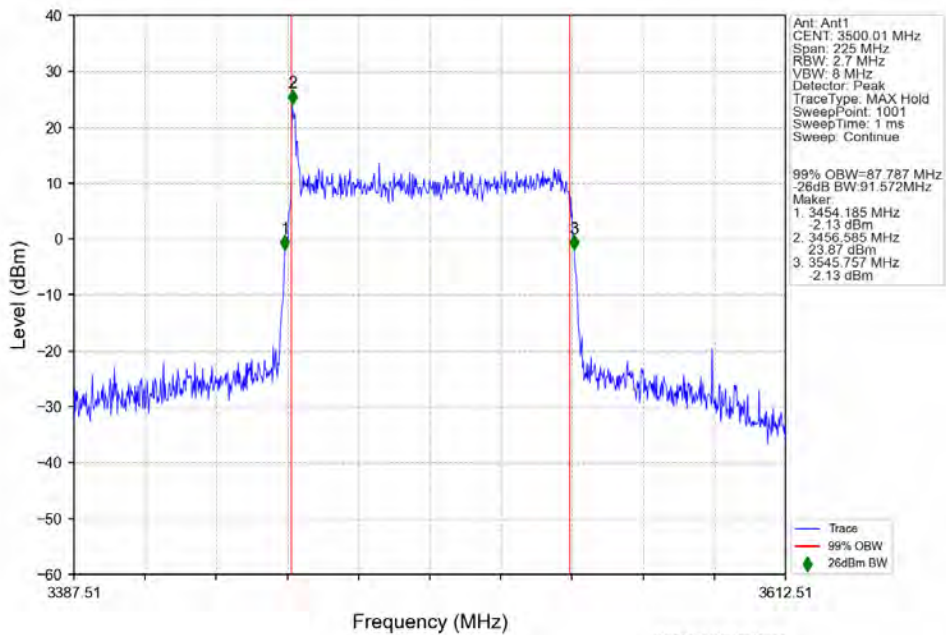
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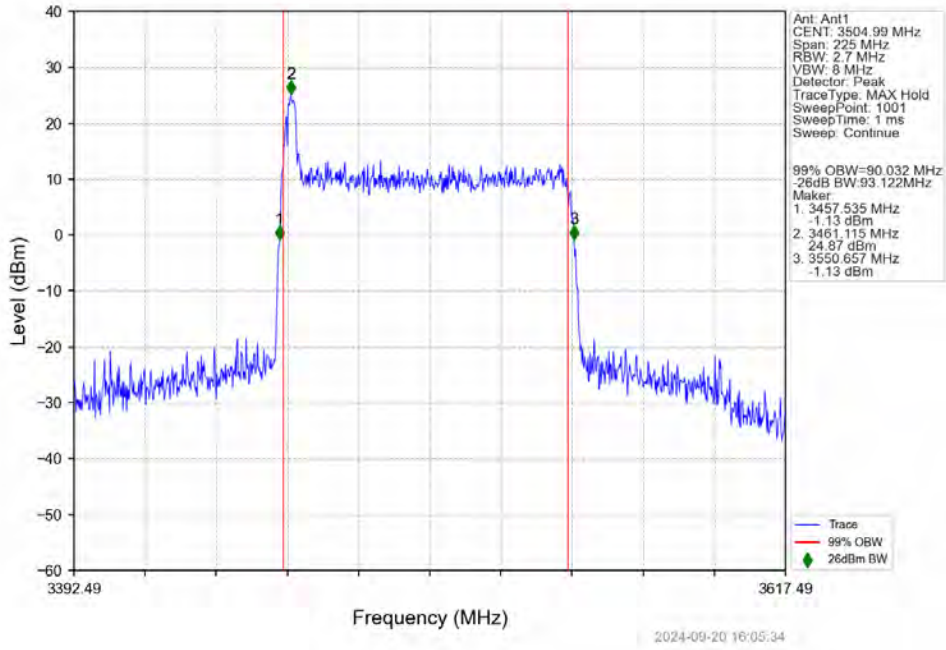
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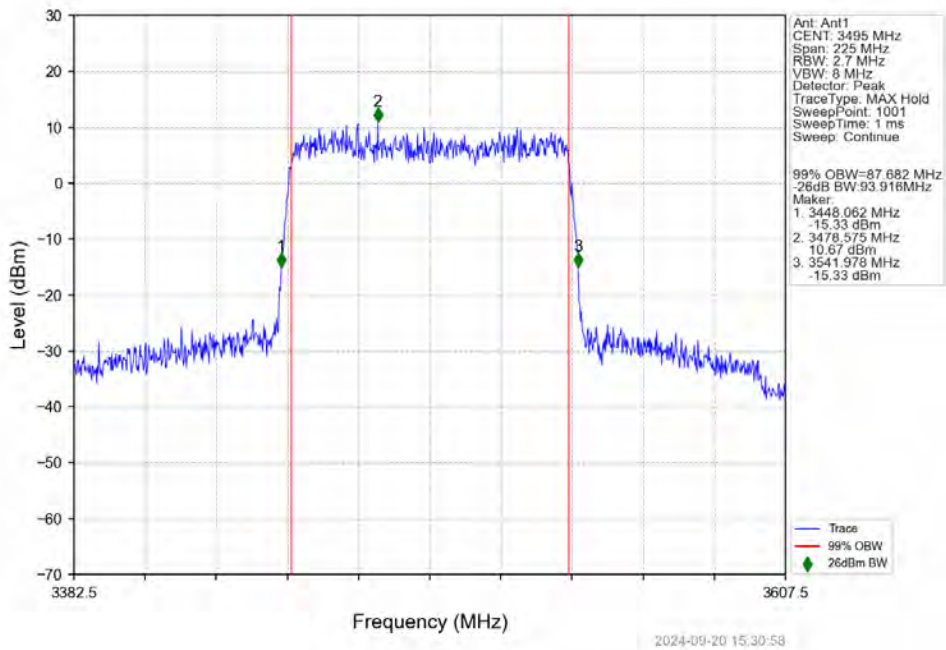
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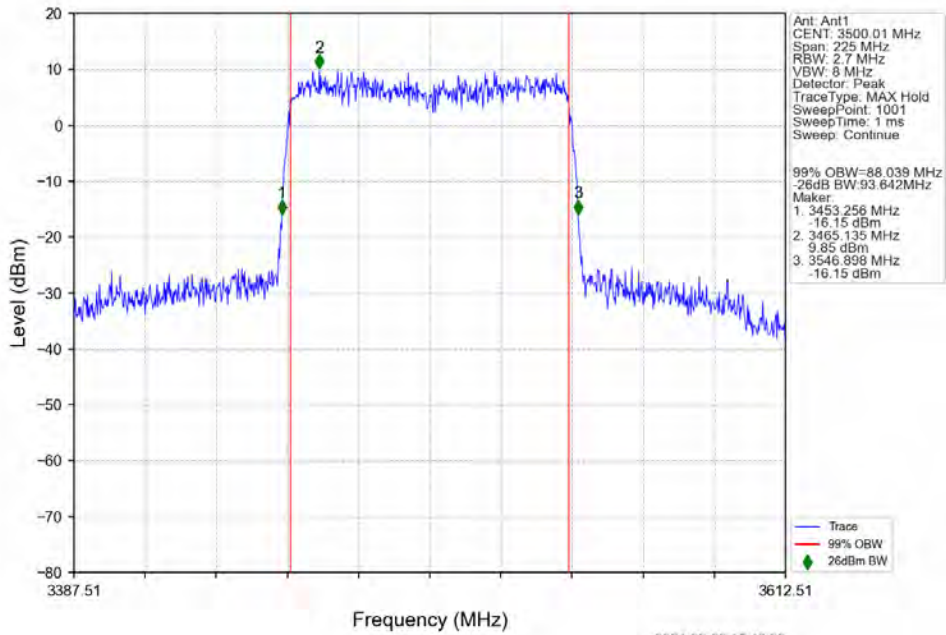
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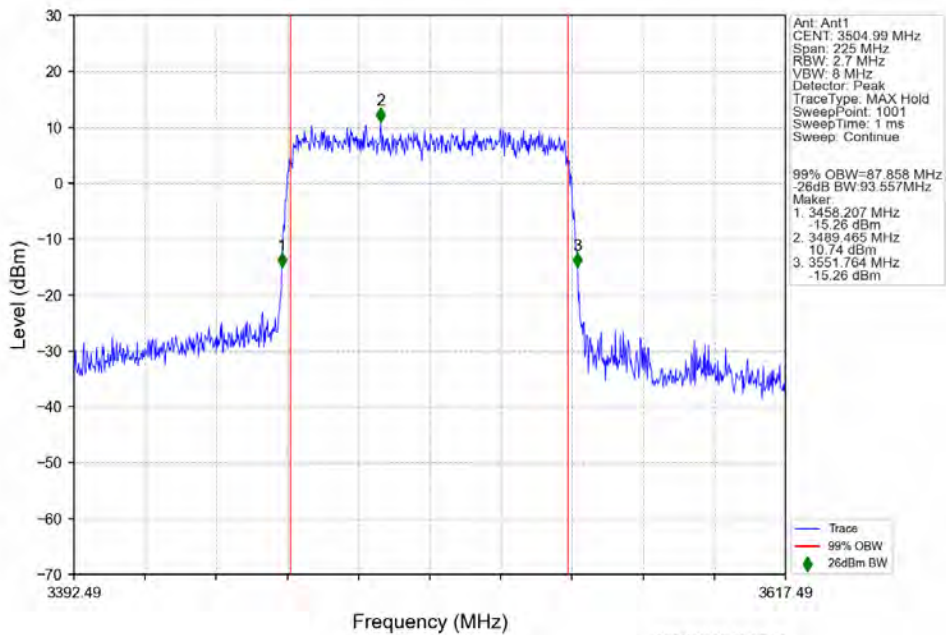
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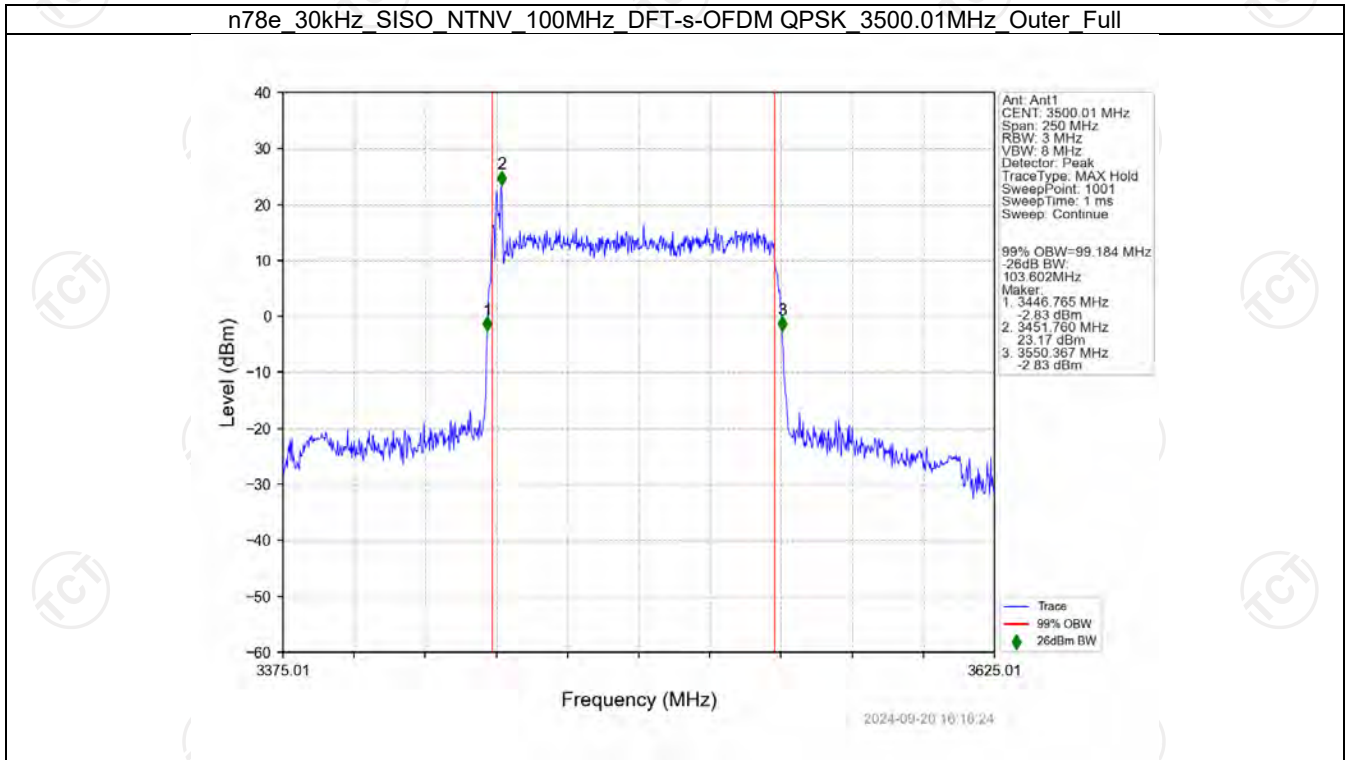
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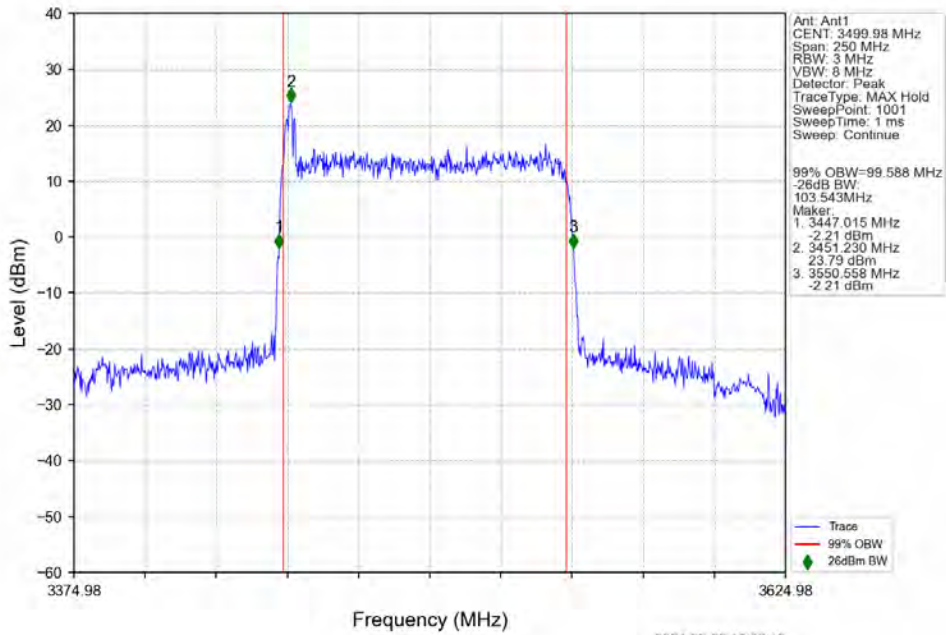
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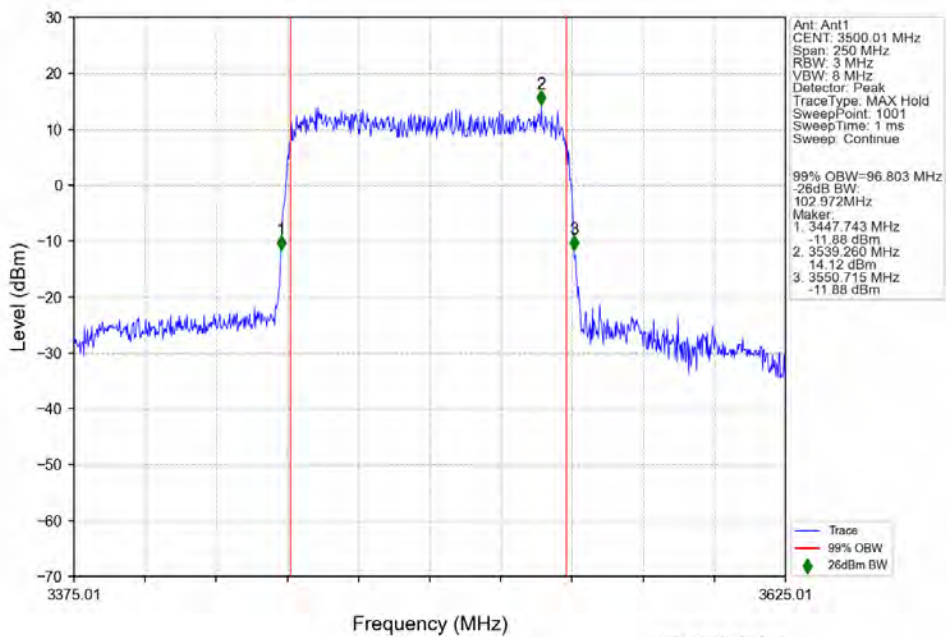
4.2.19 30k_SISO_100MHz_NTNV



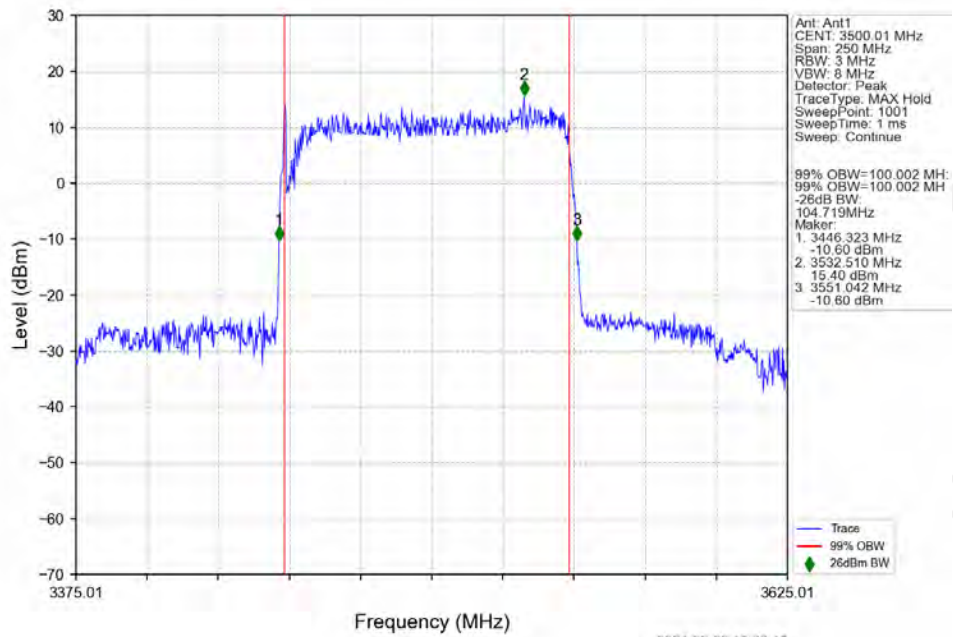
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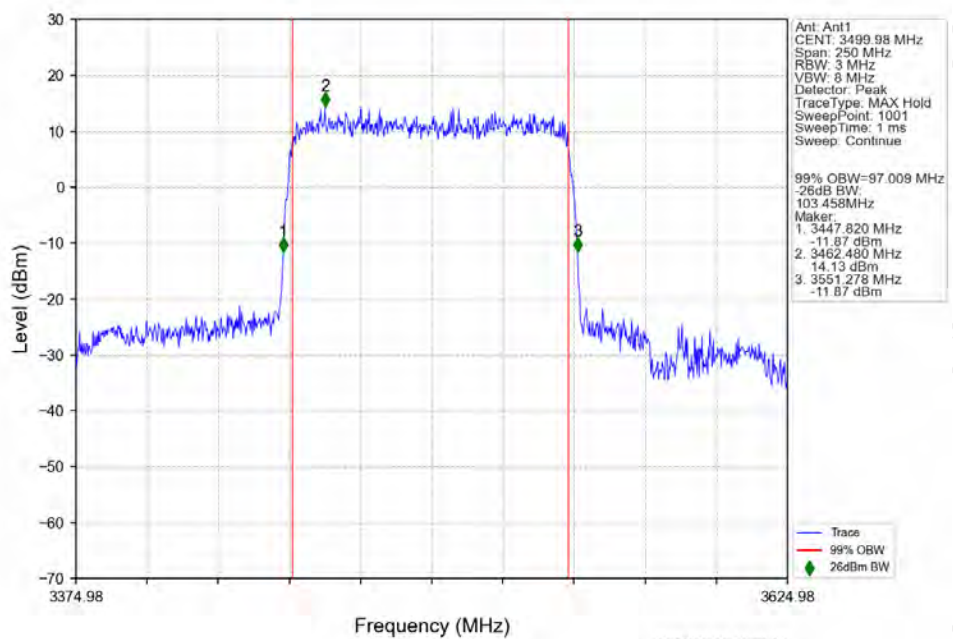
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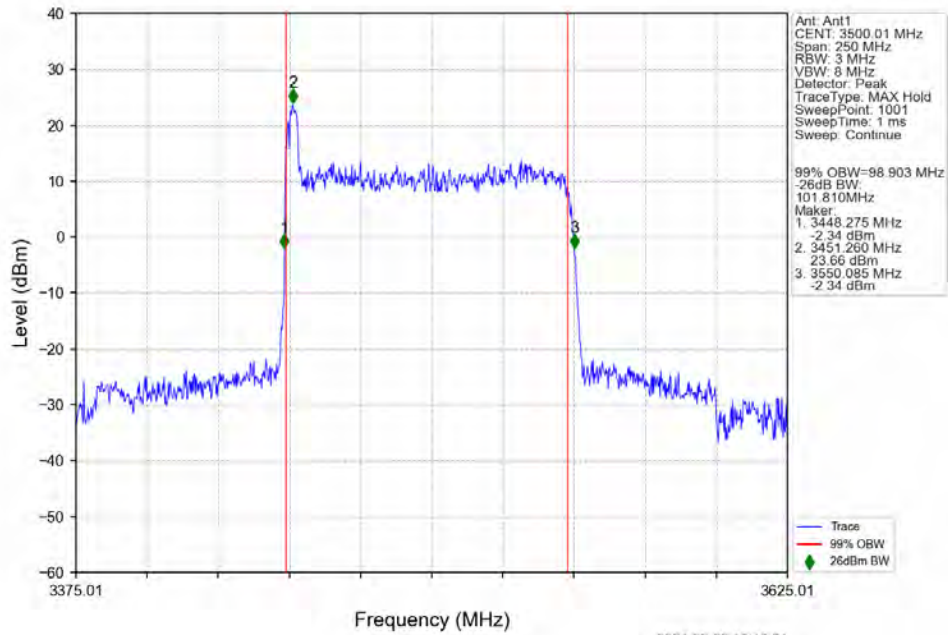
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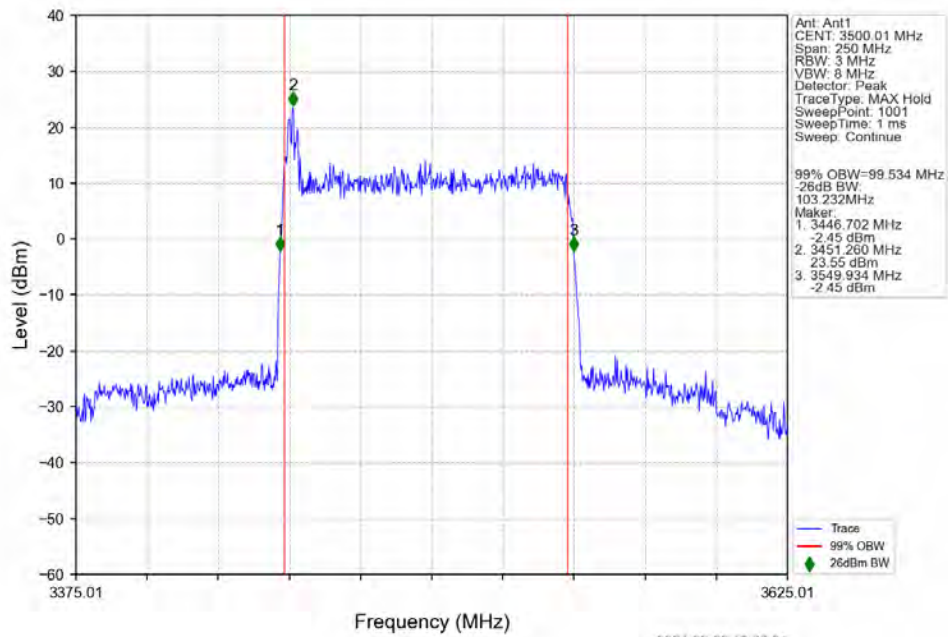
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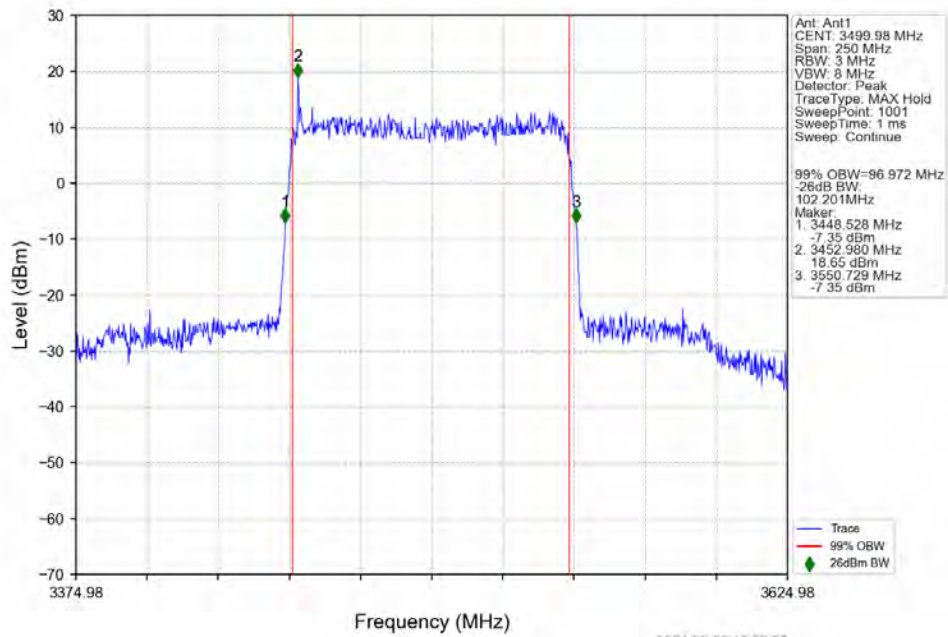
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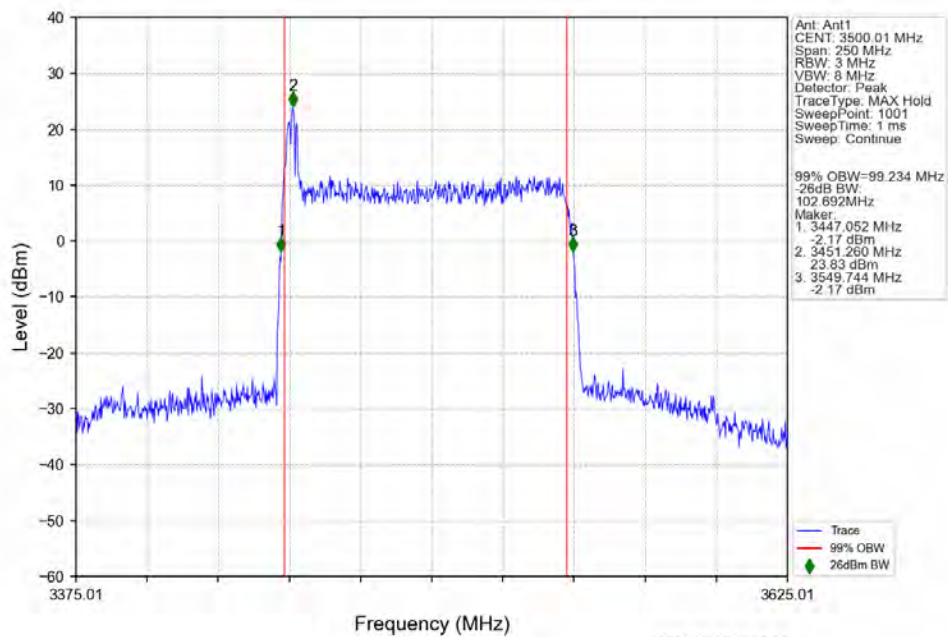
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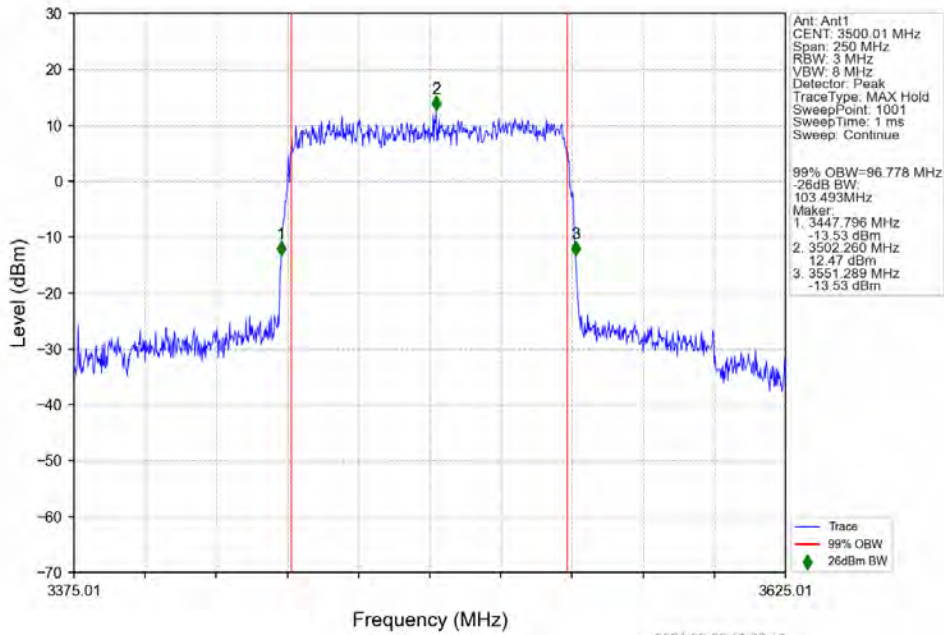
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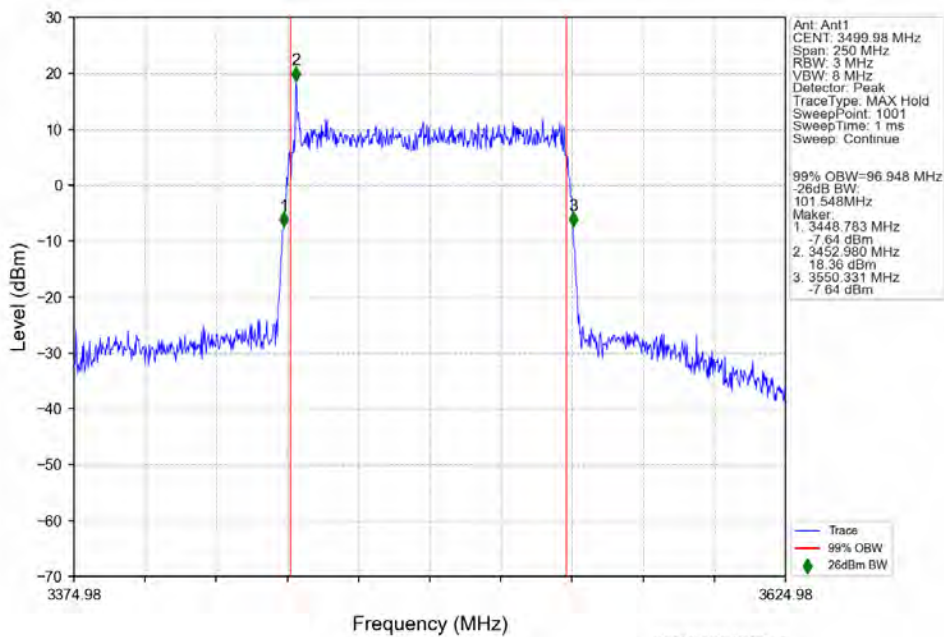
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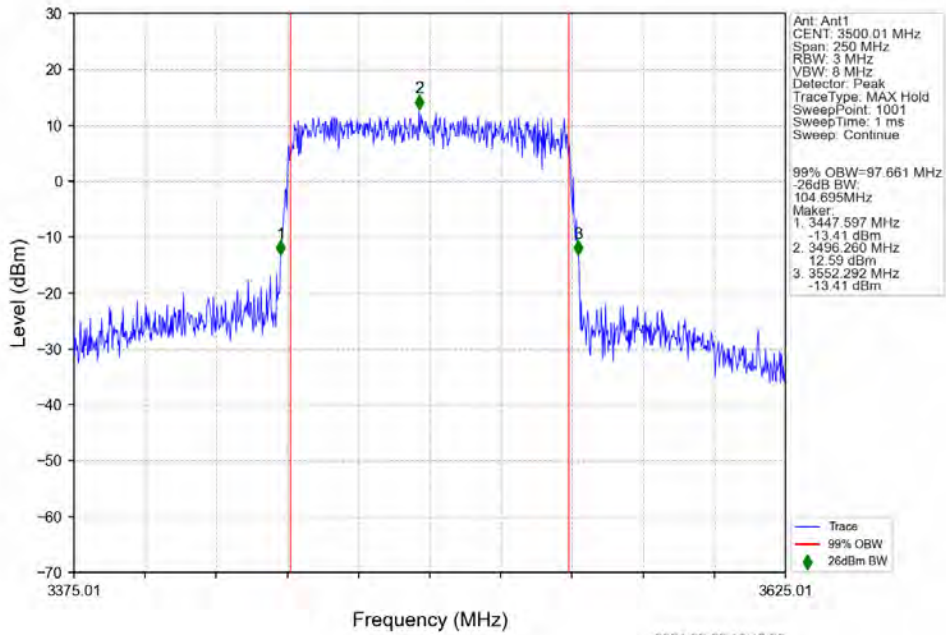
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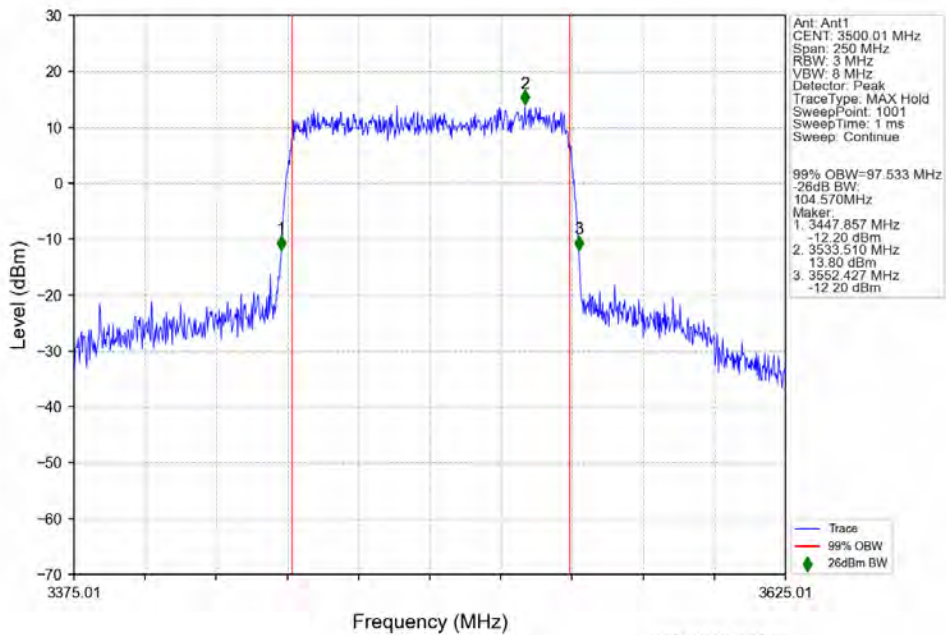
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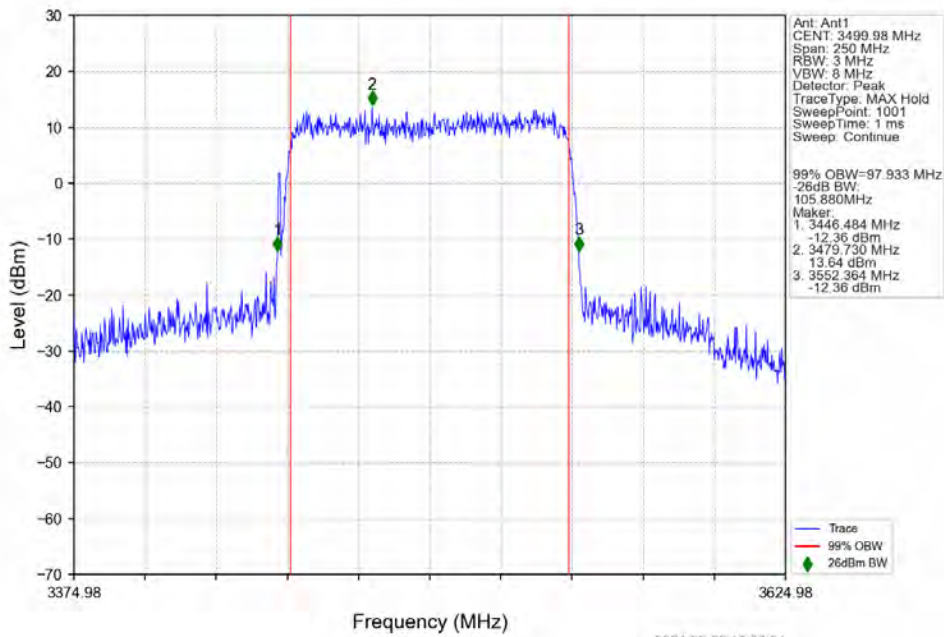
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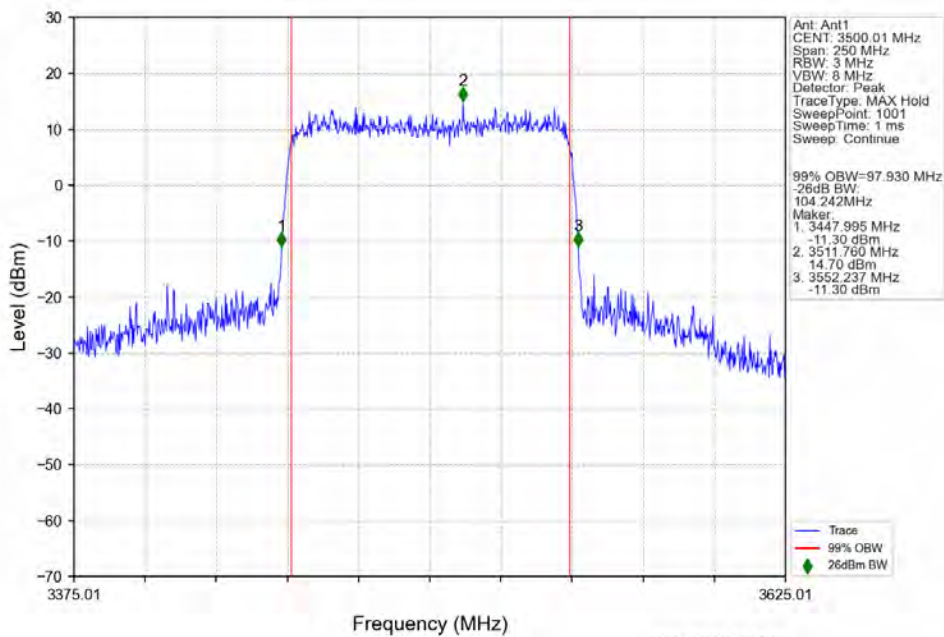
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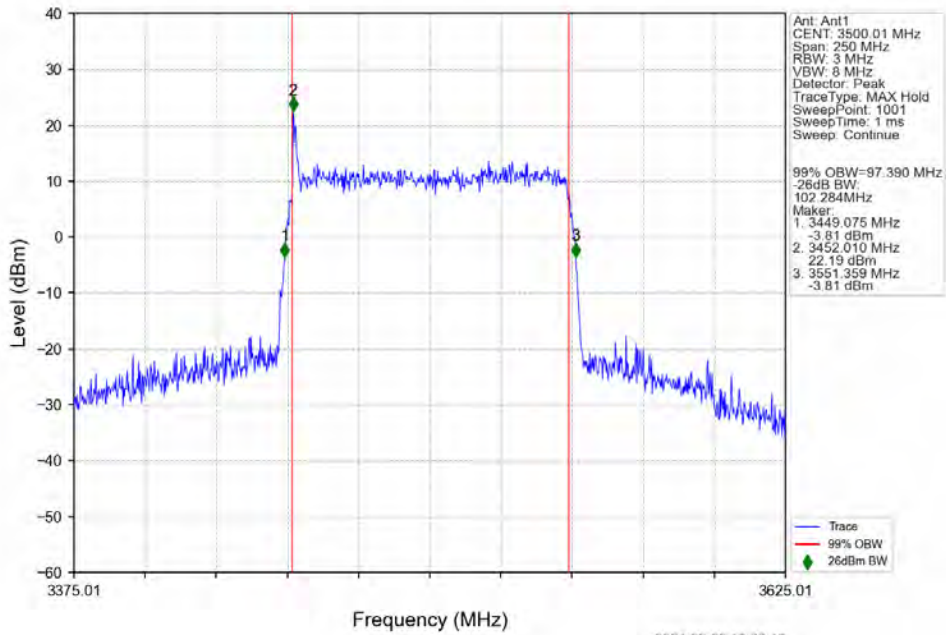
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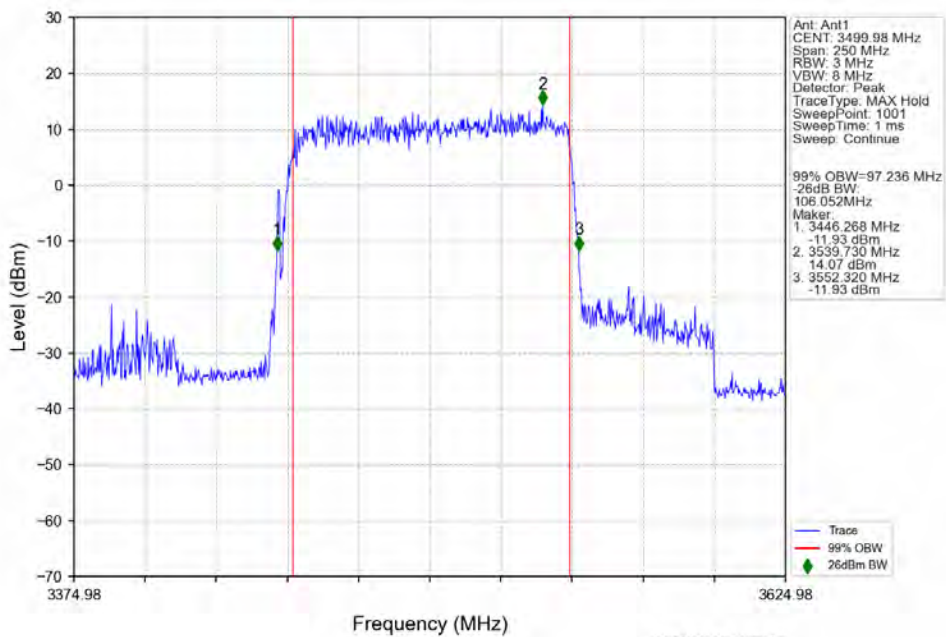
n78e 30kHz SISO NTN 100MHz CP-OFDM 16 QAM 3500.01MHz Outer Full



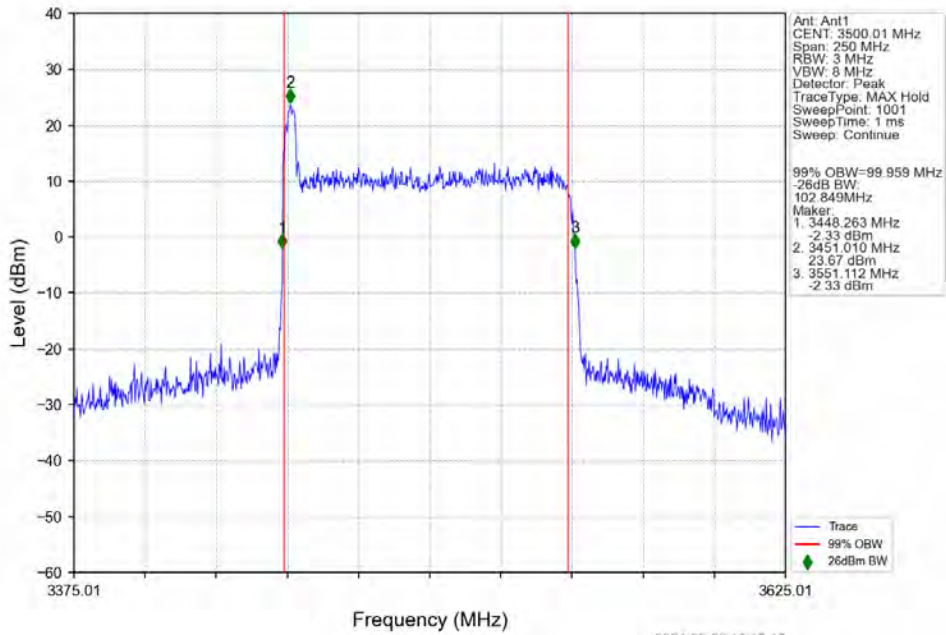
n78e 30kHz SISO NTNv 100MHz CP-OFDM 16 QAM 3500.01MHz Outer Full



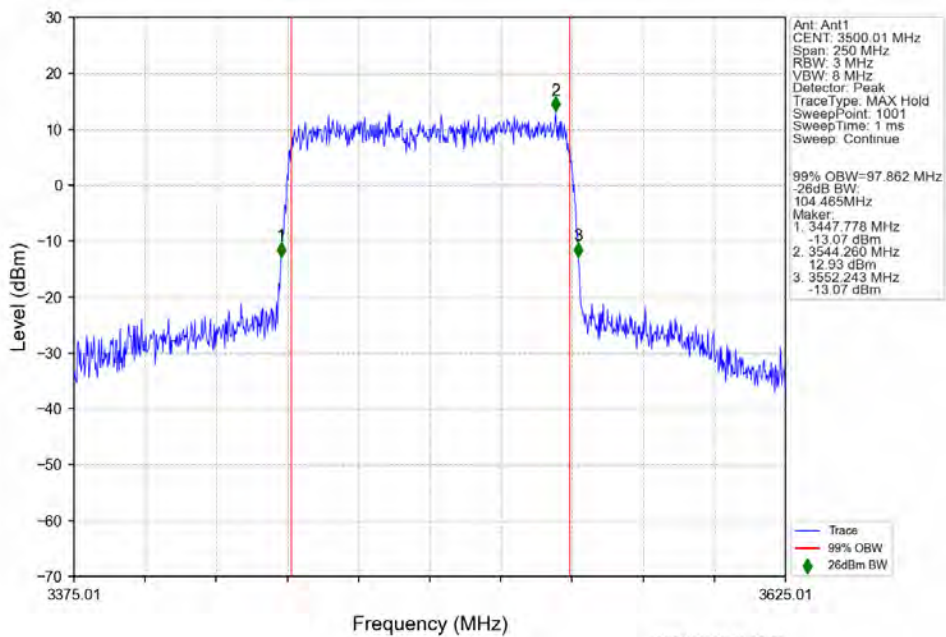
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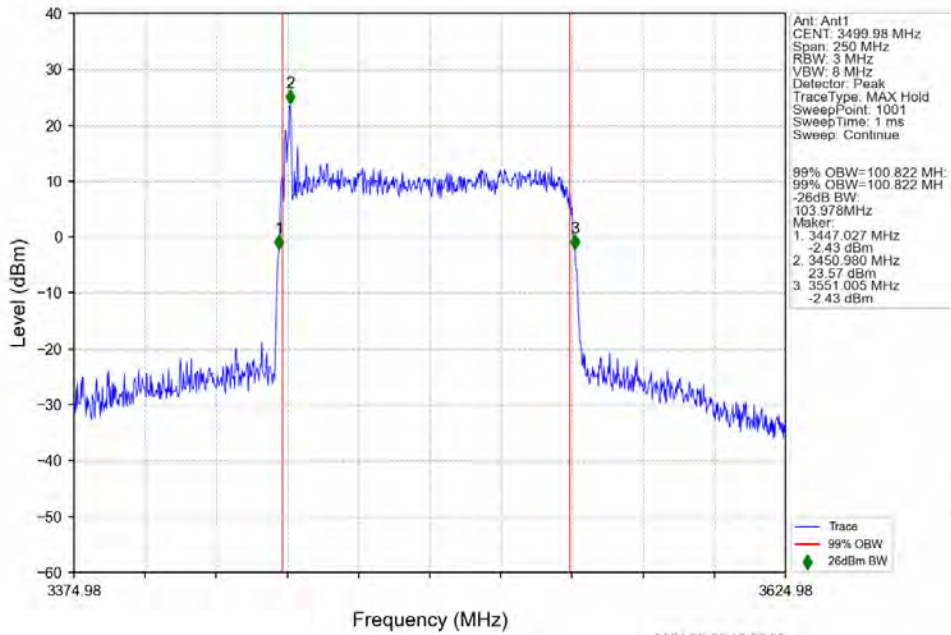
n78e 30kHz SISO NTN 100MHz CP-OFDM 64 QAM 3500.01MHz Outer Full



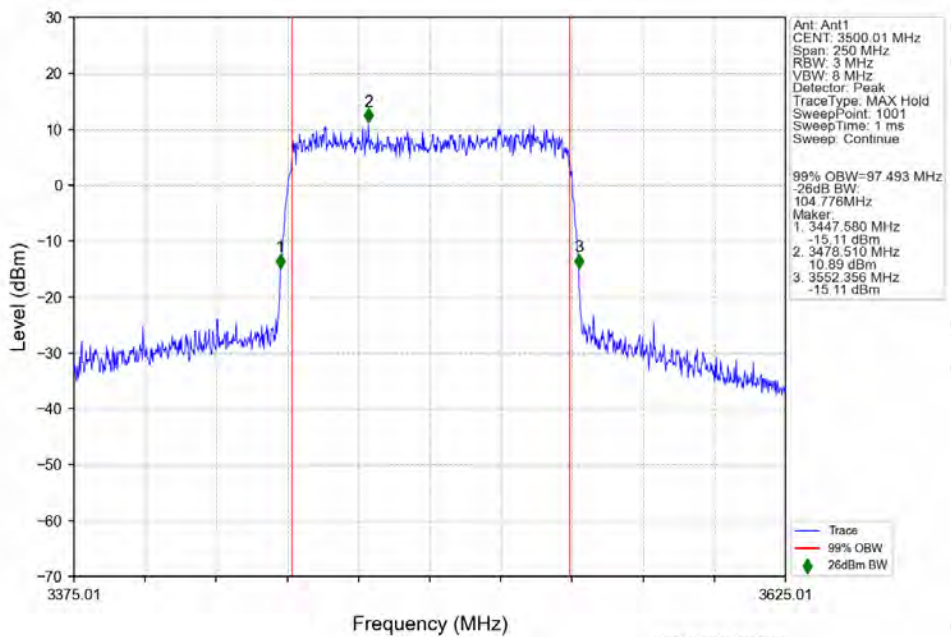
n78e 30kHz SISO NTN 100MHz CP-OFDM 64 QAM 3500.01MHz Outer Full



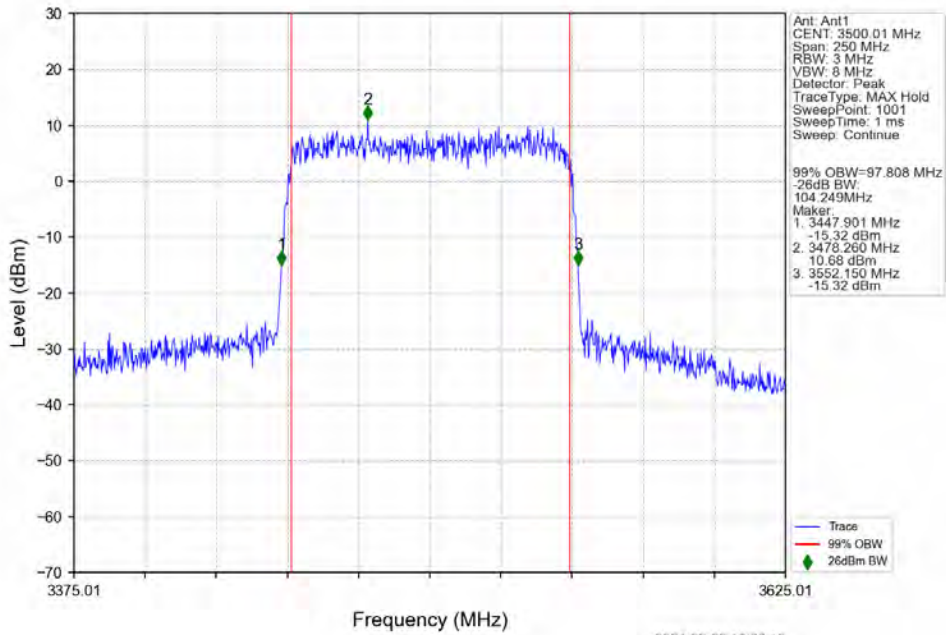
n78e 30kHz SISO NTN 100MHz CP-OFDM 64 QAM 3499.98MHz Outer Full



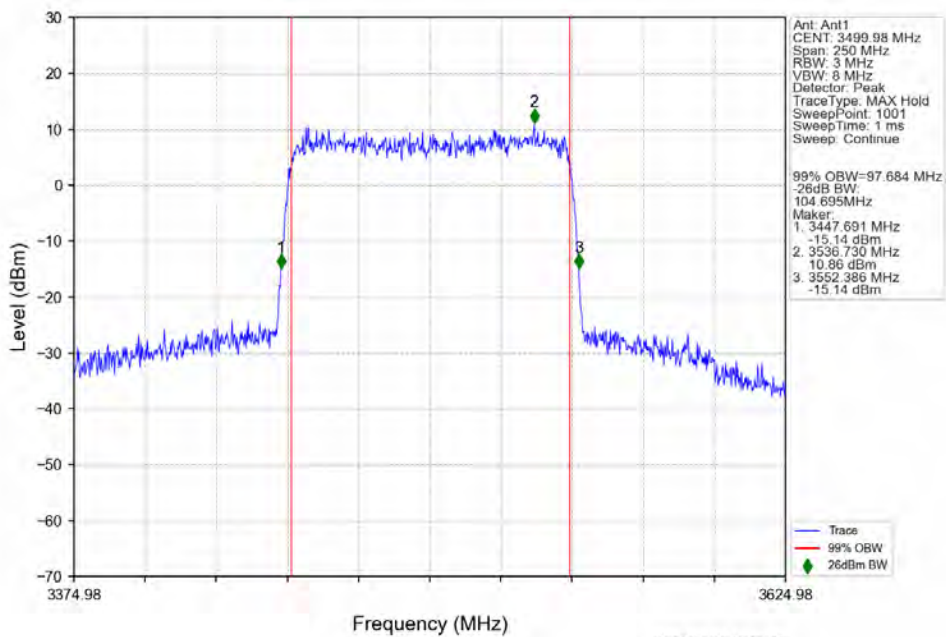
n78e 30kHz SISO NTN 100MHz CP-OFDM 256 QAM 3500.01MHz Outer Full



n78e 30kHz SISO NTN 100MHz CP-OFDM 256 QAM 3500.01MHz Outer Full



n78e 30kHz SISO NTN 100MHz CP-OFDM 256 QAM 3499.98MHz Outer Full



5. Peak-Average Ratio

5.1 Test Result

5.1.1 15k_SISO_10MHz_NTNV

5G NR n78e SCS=15kHz SISO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM QPSK	3455.01	Outer Full	12.26	/	/	<=13	Pass
	3499.995	Outer Full	12.05	/	/	<=13	Pass
	3544.995	Outer Full	11.05	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3455.01	Outer Full	12.11	/	/	<=13	Pass
	3499.995	Outer Full	12.14	/	/	<=13	Pass
	3544.995	Outer Full	12.32	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3455.01	Outer Full	12.74	/	/	<=13	Pass
	3499.995	Outer Full	12.60	/	/	<=13	Pass
	3544.995	Outer Full	12.78	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3455.01	Outer Full	12.67	/	/	<=13	Pass
	3499.995	Outer Full	12.54	/	/	<=13	Pass
	3544.995	Outer Full	12.72	/	/	<=13	Pass
CP-OFDM QPSK	3455.01	Outer Full	8.04	/	/	<=13	Pass
	3499.995	Outer Full	8.09	/	/	<=13	Pass
	3544.995	Outer Full	7.98	/	/	<=13	Pass
CP-OFDM 16 QAM	3455.01	Outer Full	8.15	/	/	<=13	Pass
	3499.995	Outer Full	8.17	/	/	<=13	Pass
	3544.995	Outer Full	8.05	/	/	<=13	Pass
CP-OFDM 64 QAM	3455.01	Outer Full	8.34	/	/	<=13	Pass
	3499.995	Outer Full	8.35	/	/	<=13	Pass
	3544.995	Outer Full	8.24	/	/	<=13	Pass
CP-OFDM 256 QAM	3455.01	Outer Full	8.59	/	/	<=13	Pass
	3499.995	Outer Full	8.49	/	/	<=13	Pass
	3544.995	Outer Full	8.49	/	/	<=13	Pass

5.1.2 15k_SISO_15MHz_NTNV

5G NR n78e SCS=15kHz SISO 15MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant1	Ant2	Sum	Limit	
DFT-s-OFDM QPSK	3457.5	Outer Full	11.92	/	/	<=13	Pass
	3499.995	Outer Full	11.41	/	/	<=13	Pass
	3542.49	Outer Full	11.97	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3457.5	Outer Full	12.49	/	/	<=13	Pass
	3499.995	Outer Full	6.33	/	/	<=13	Pass
	3542.49	Outer Full	12.57	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3457.5	Outer Full	12.69	/	/	<=13	Pass
	3499.995	Outer Full	12.38	/	/	<=13	Pass
	3542.49	Outer Full	12.83	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3457.5	Outer Full	12.85	/	/	<=13	Pass
	3499.995	Outer Full	12.64	/	/	<=13	Pass
	3542.49	Outer Full	12.26	/	/	<=13	Pass
CP-OFDM QPSK	3457.5	Outer Full	7.93	/	/	<=13	Pass
	3499.995	Outer Full	7.98	/	/	<=13	Pass
	3542.49	Outer Full	7.87	/	/	<=13	Pass