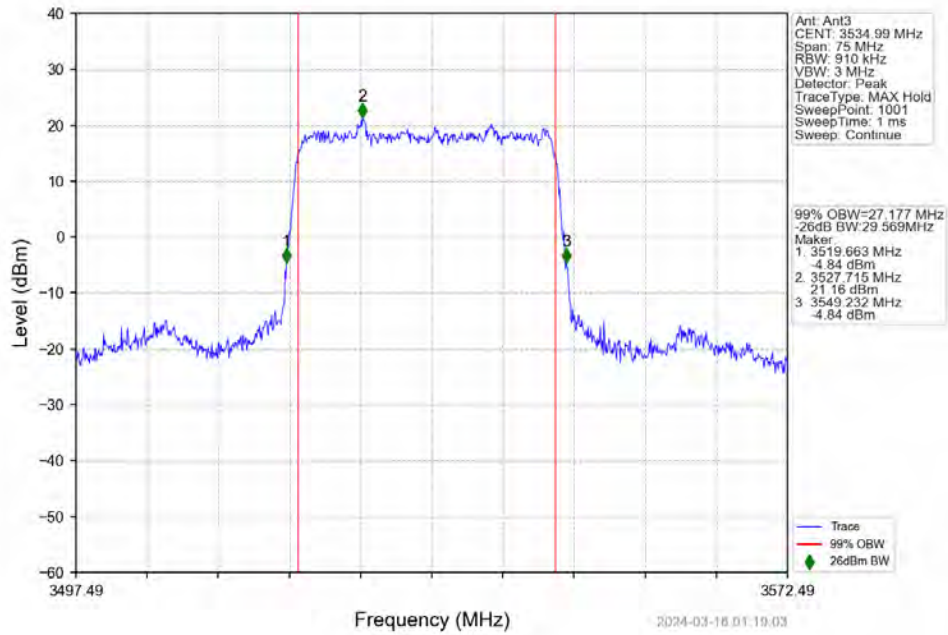
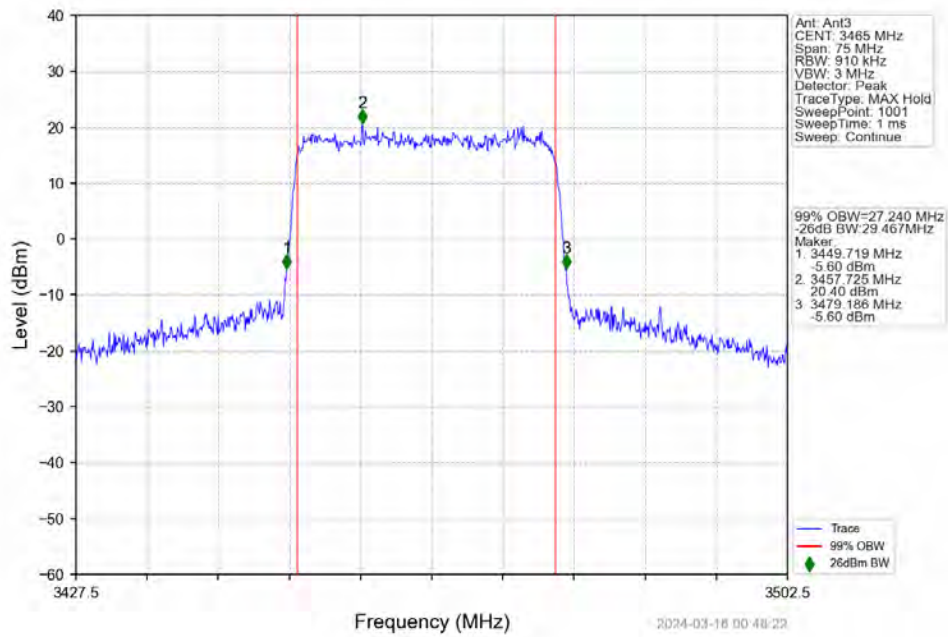


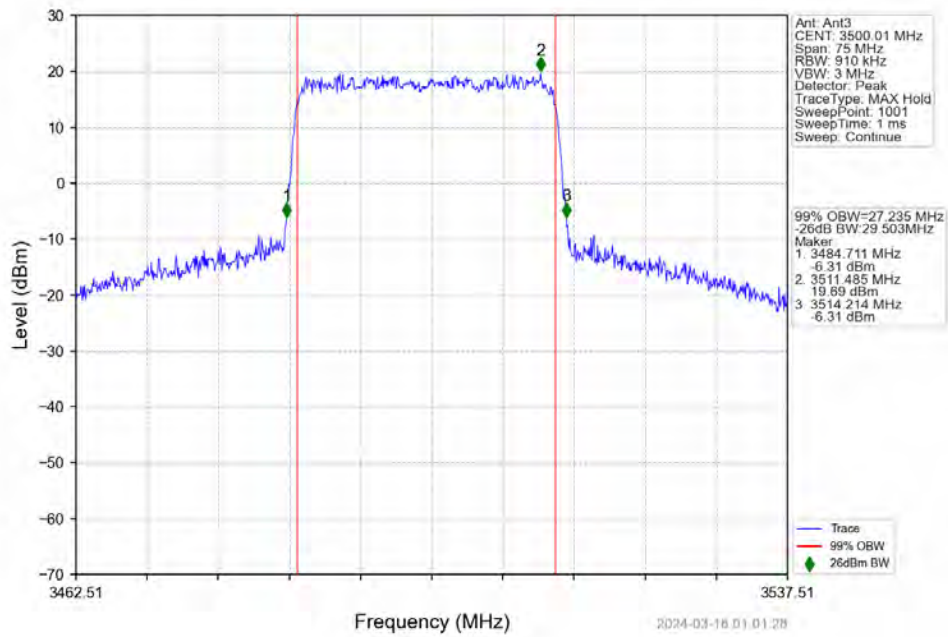
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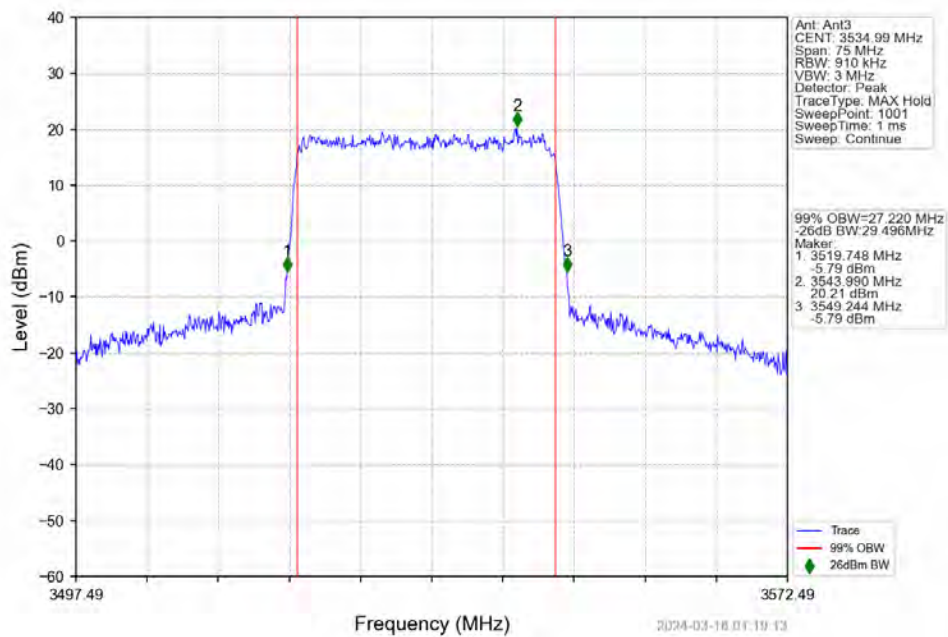
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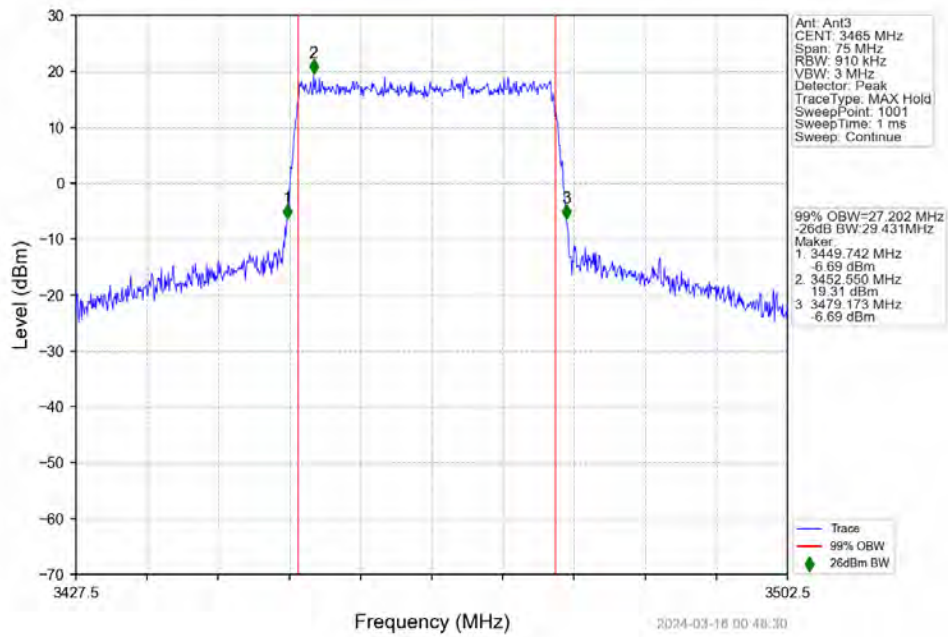
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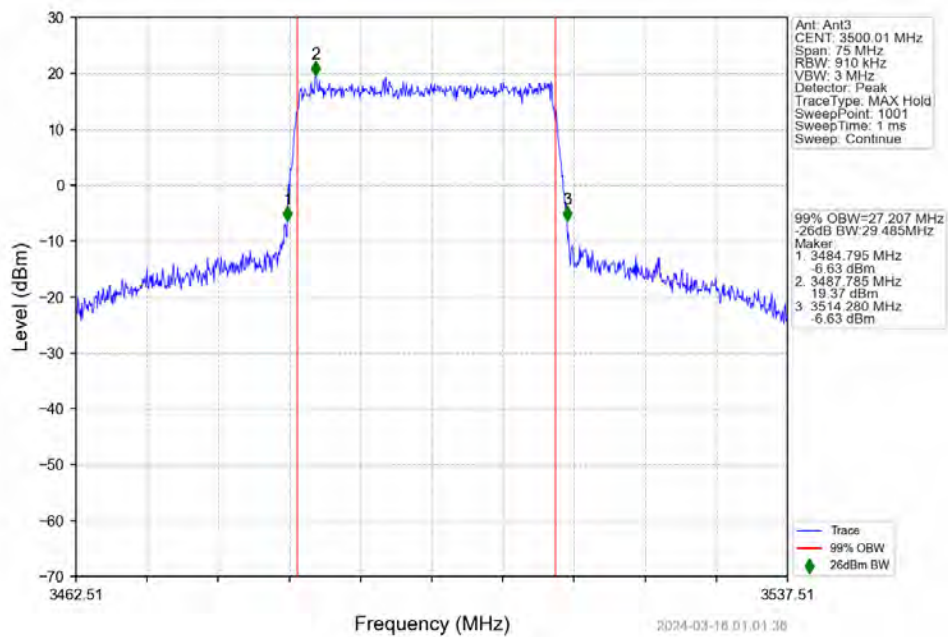
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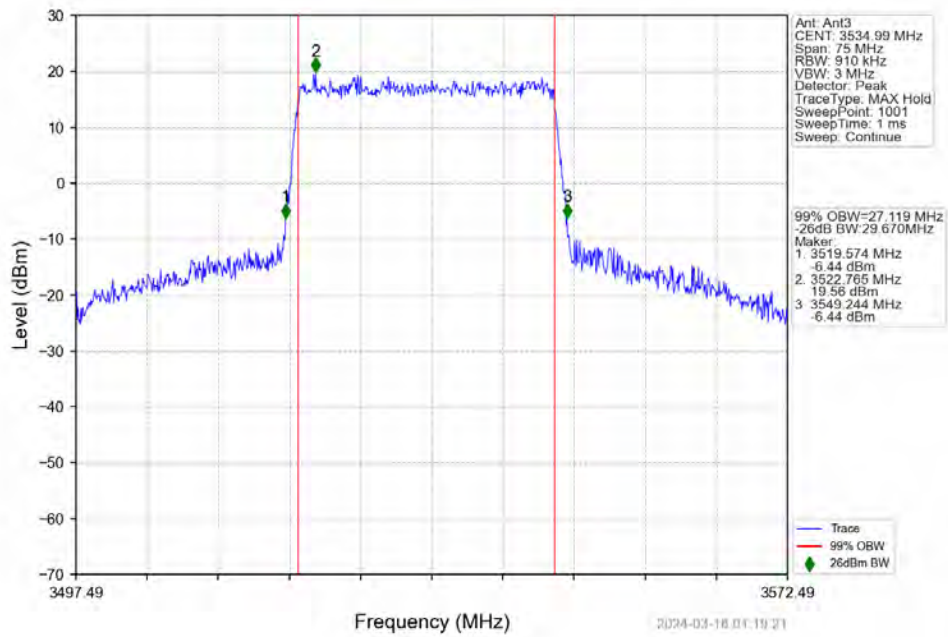
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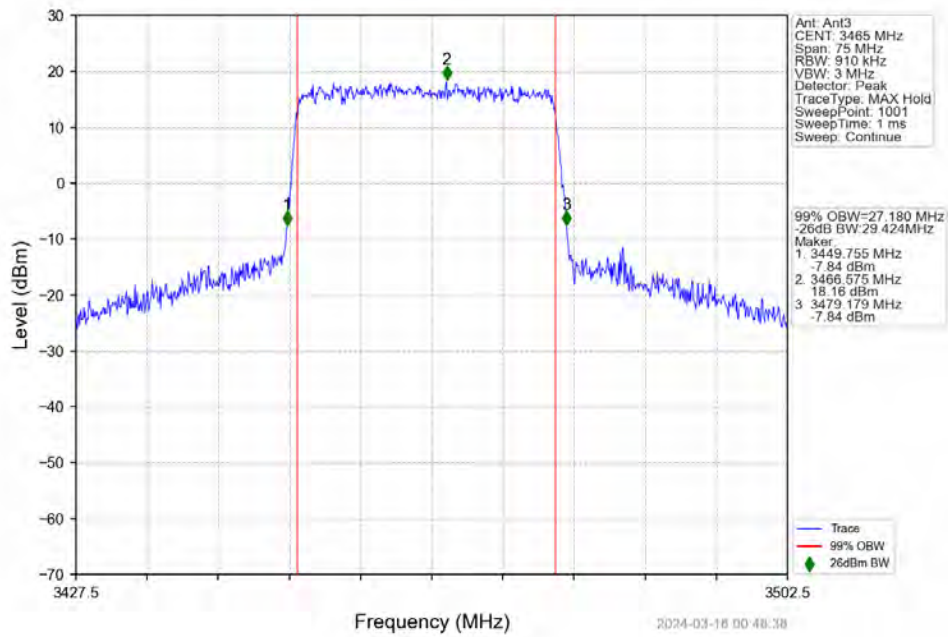
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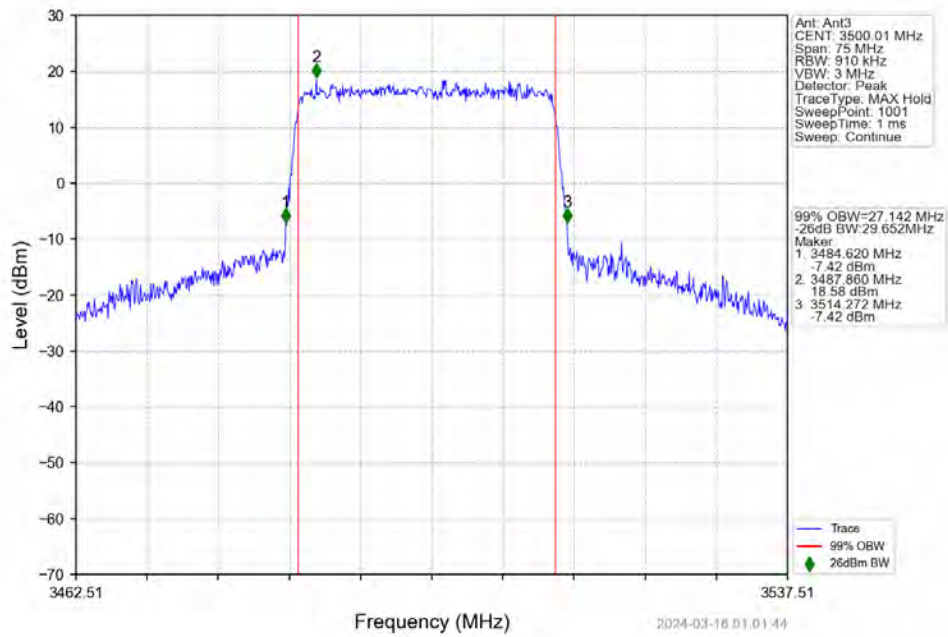
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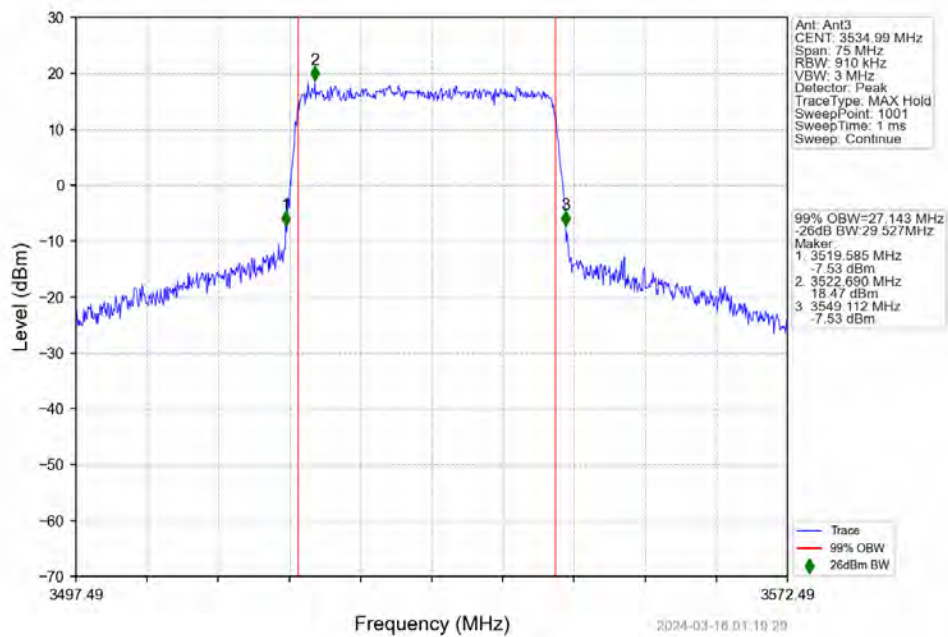
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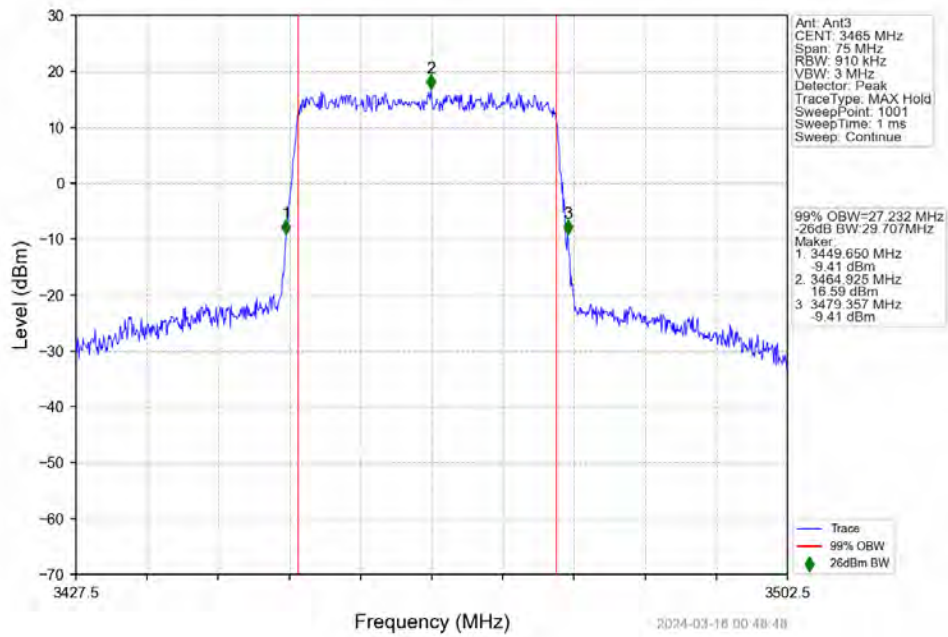
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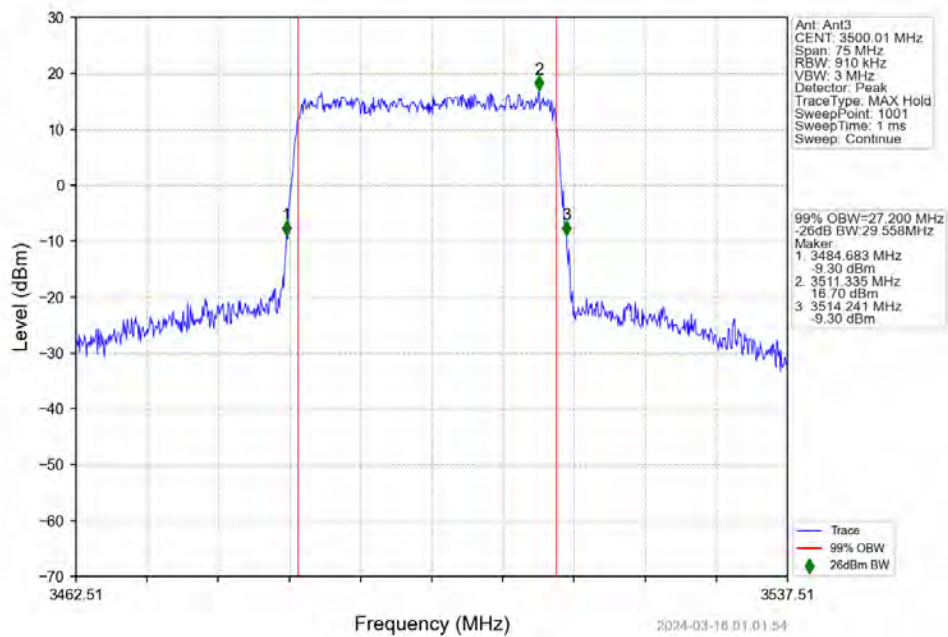
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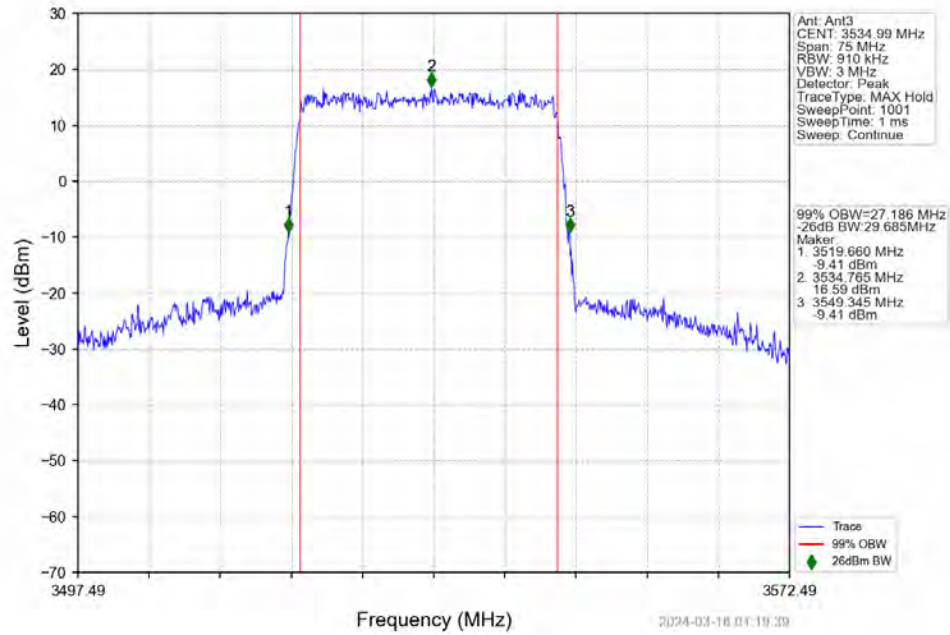
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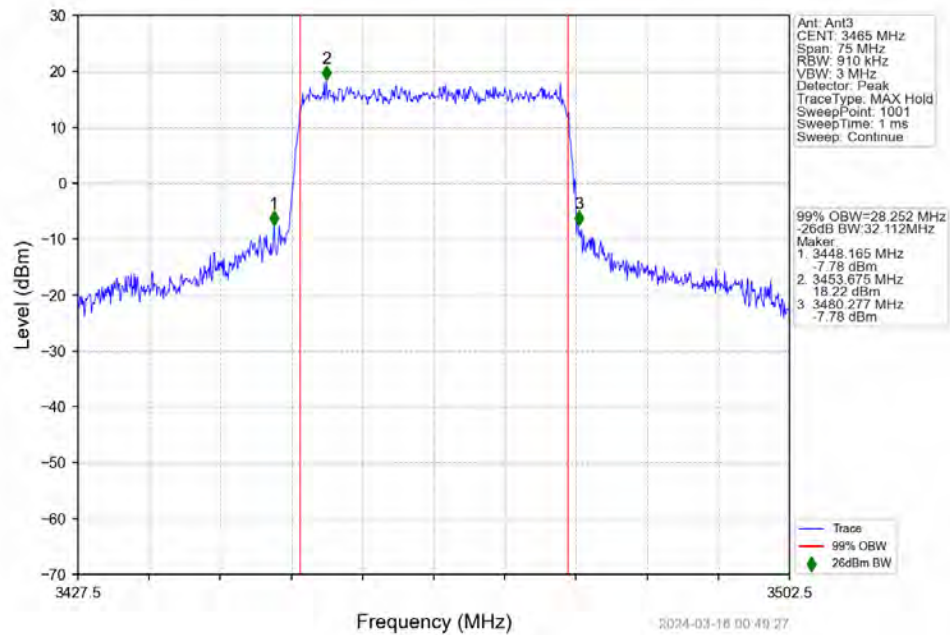
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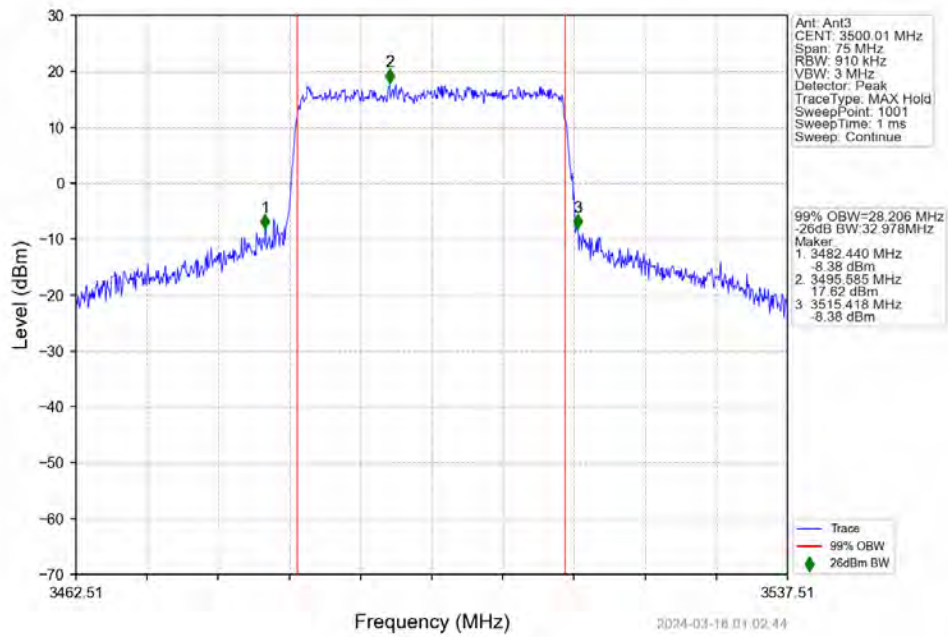
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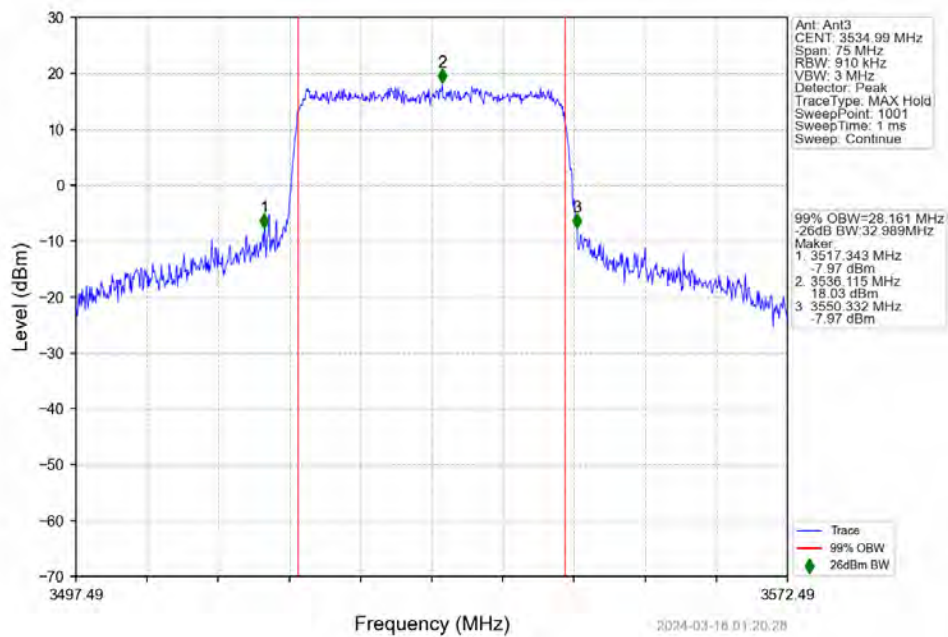
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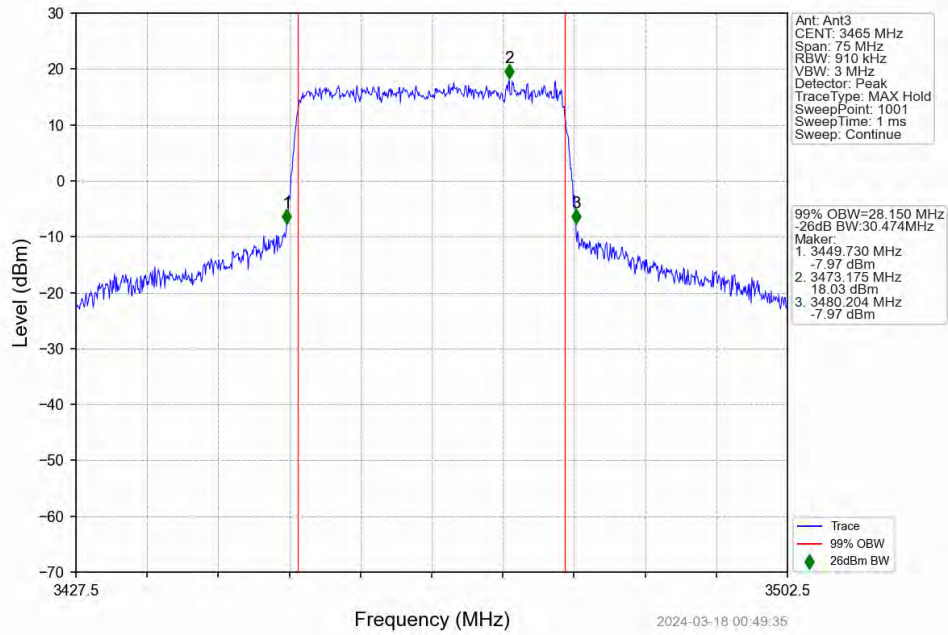
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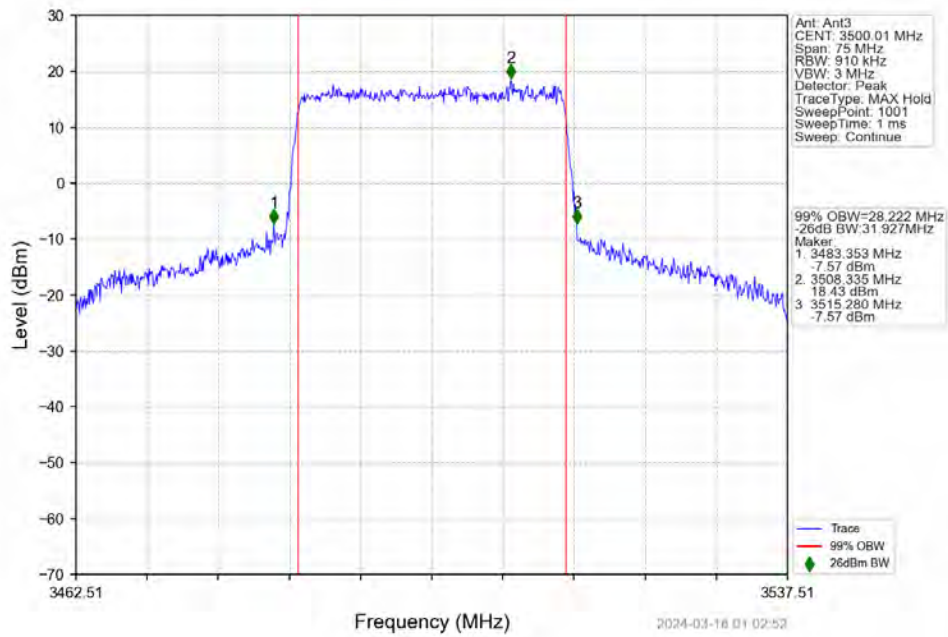
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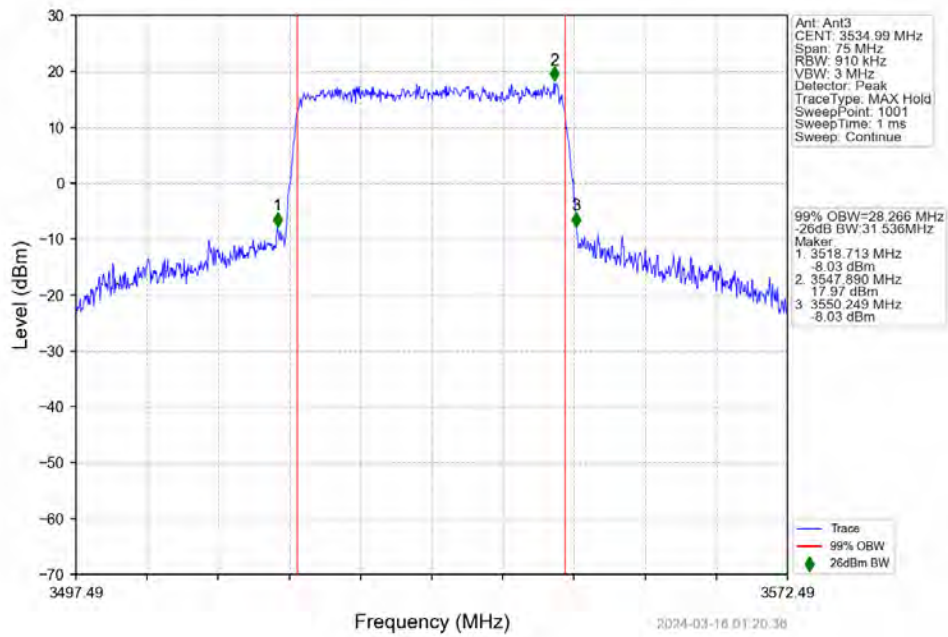
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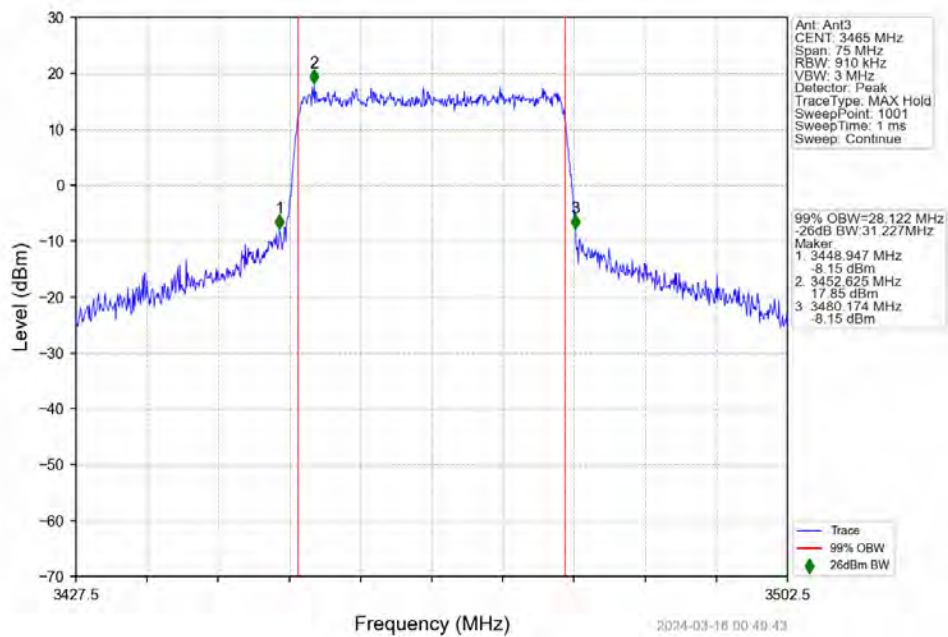
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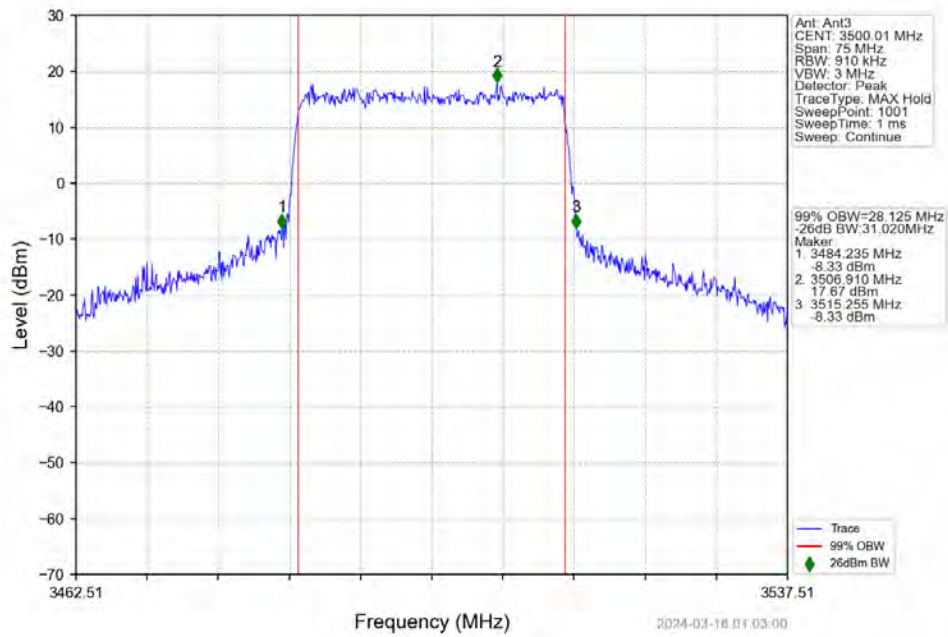
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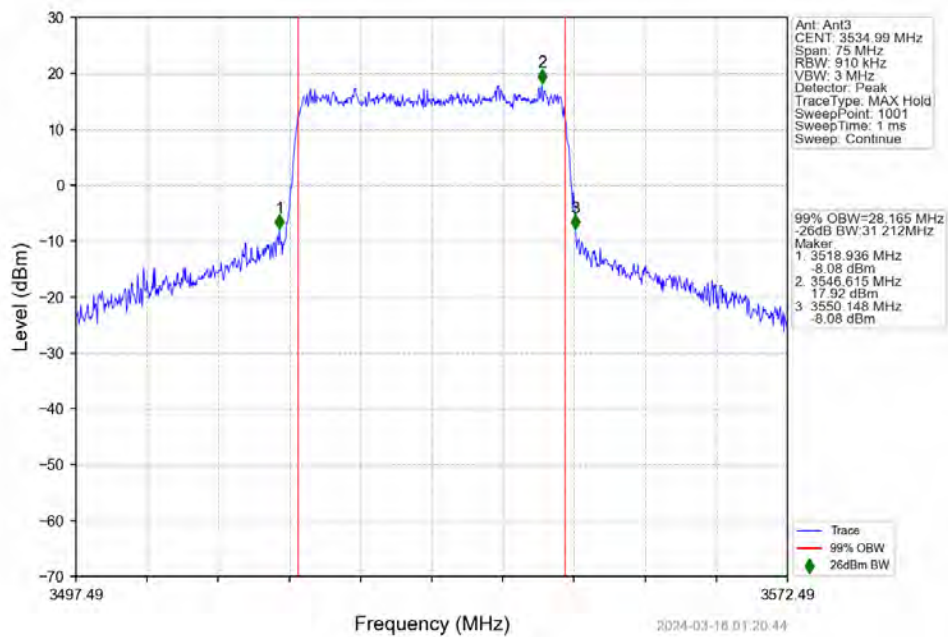
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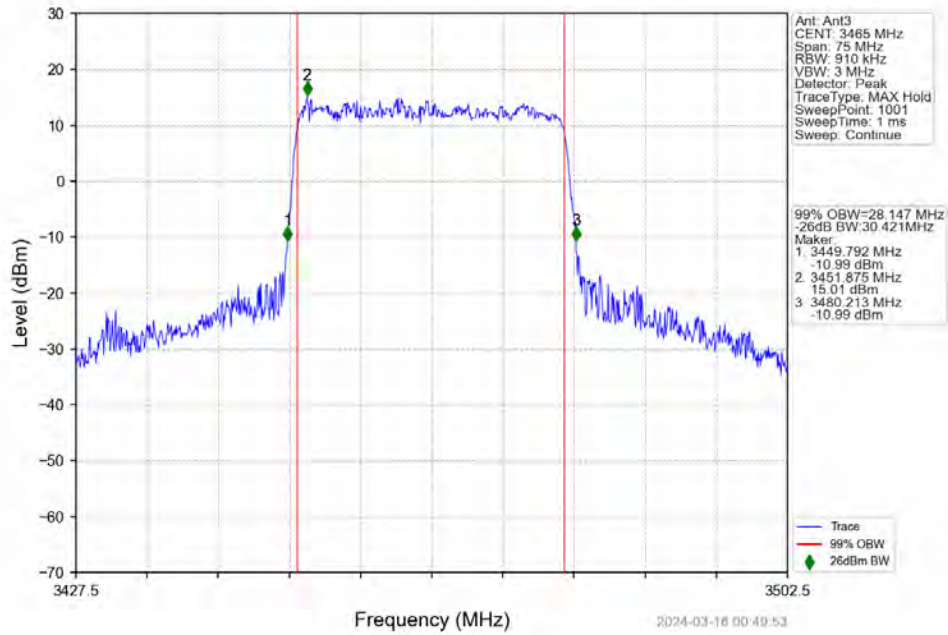
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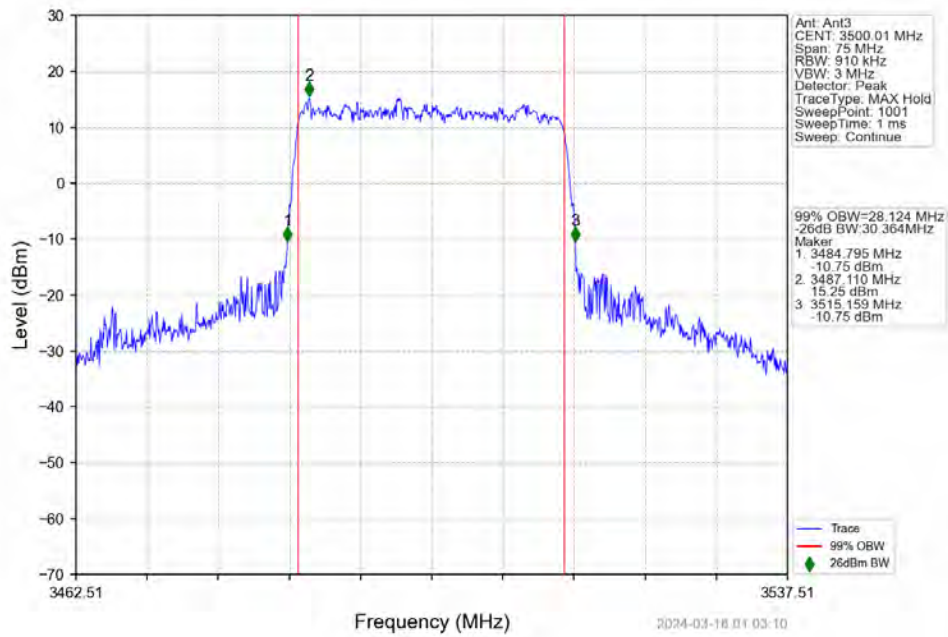
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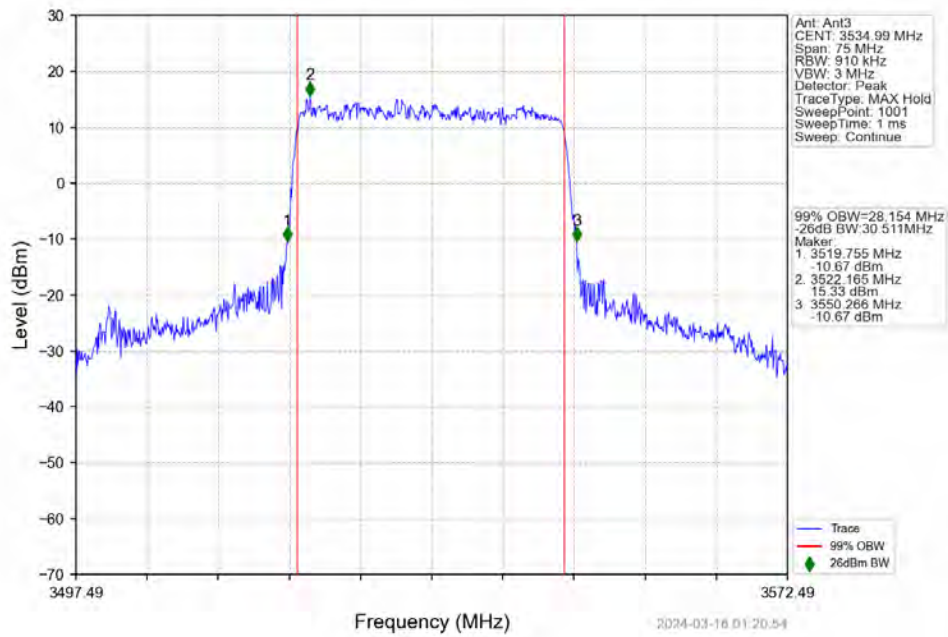
n78e 30kHz SISO NTN 30MHz CP-OFDM 256 QAM 3465MHz Outer Full



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



n78e 30kHz SISO NTN 30MHz CP-OFDM 256 QAM 3534.99MHz Outer Full

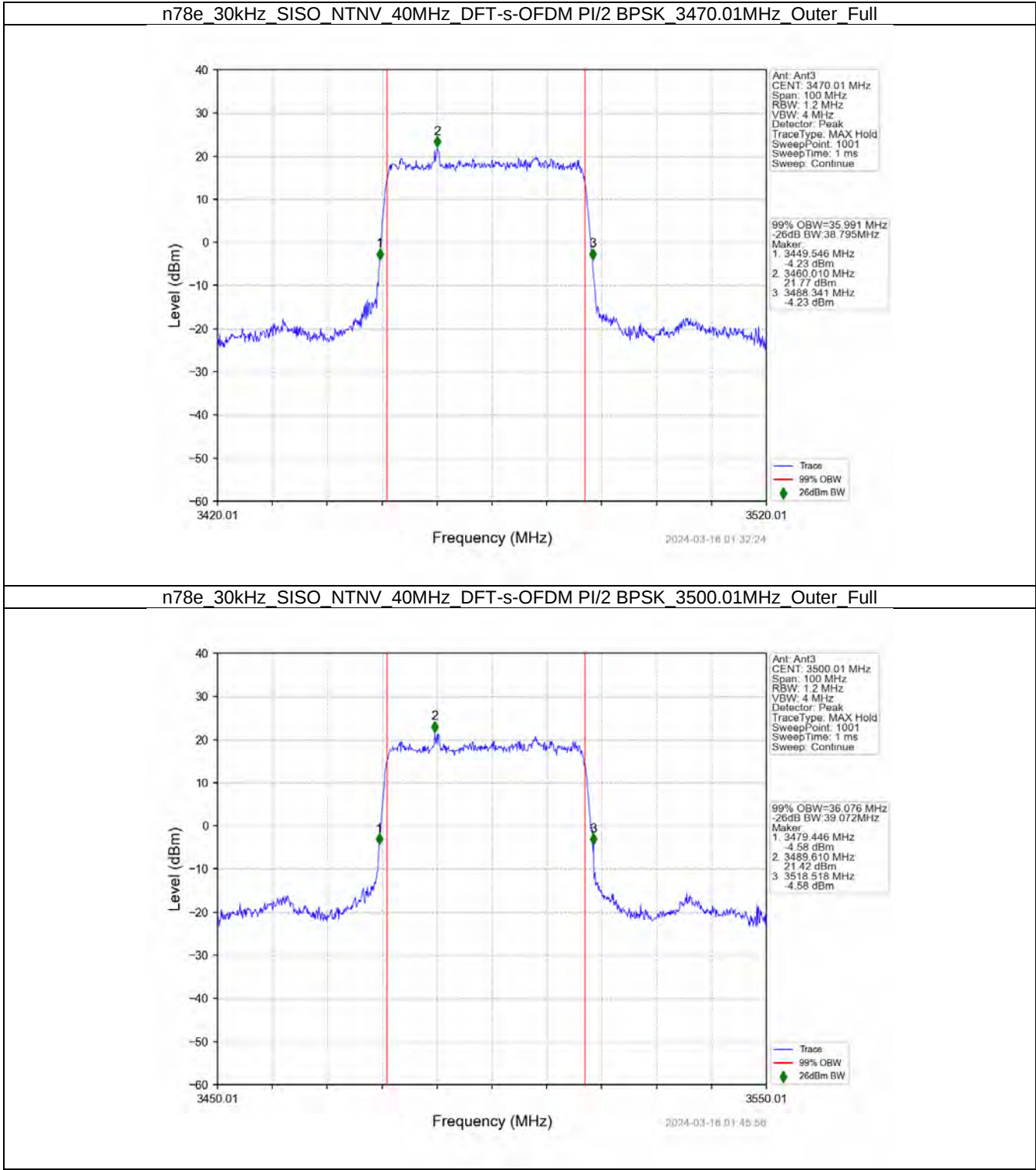


3.3 30k_SISO_40MHz_NTNV

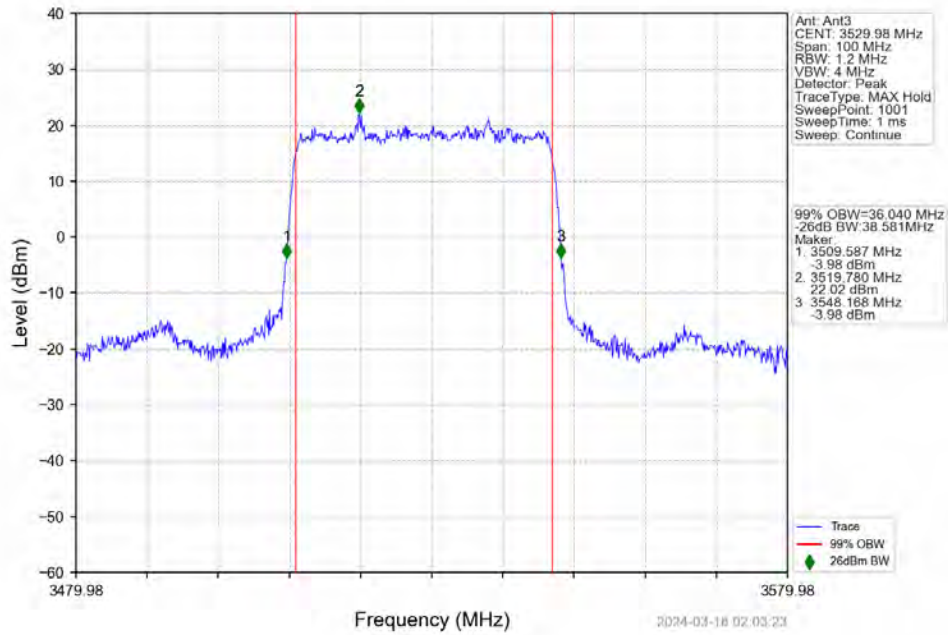
3.3.1 Test Result

5G NR n78e SCS=30kHz SISO 40MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3470.01	Outer_Full	35.99	38.80	/	Pass
	3500.01	Outer_Full	36.08	39.07	/	Pass
	3529.98	Outer_Full	36.04	38.58	/	Pass
DFT-s-OFDM QPSK	3470.01	Outer_Full	36.02	39.13	/	Pass
	3500.01	Outer_Full	36.03	38.94	/	Pass
	3529.98	Outer_Full	36.03	38.91	/	Pass
DFT-s-OFDM 16 QAM	3470.01	Outer_Full	36.03	39.10	/	Pass
	3500.01	Outer_Full	36.24	38.91	/	Pass
	3529.98	Outer_Full	36.19	38.91	/	Pass
DFT-s-OFDM 64 QAM	3470.01	Outer_Full	36.07	39.02	/	Pass
	3500.01	Outer_Full	36.10	38.94	/	Pass
	3529.98	Outer_Full	36.09	39.19	/	Pass
DFT-s-OFDM 256 QAM	3470.01	Outer_Full	36.01	38.86	/	Pass
	3500.01	Outer_Full	36.12	38.93	/	Pass
	3529.98	Outer_Full	36.01	38.91	/	Pass
CP-OFDM QPSK	3470.01	Outer_Full	38.21	41.11	/	Pass
	3500.01	Outer_Full	38.22	41.30	/	Pass
	3529.98	Outer_Full	38.31	40.95	/	Pass
CP-OFDM 16 QAM	3470.01	Outer_Full	38.22	40.94	/	Pass
	3500.01	Outer_Full	38.27	41.21	/	Pass
	3529.98	Outer_Full	38.26	41.25	/	Pass
CP-OFDM 64 QAM	3470.01	Outer_Full	38.26	41.32	/	Pass
	3500.01	Outer_Full	38.26	41.39	/	Pass
	3529.98	Outer_Full	38.28	41.17	/	Pass
CP-OFDM 256 QAM	3470.01	Outer_Full	38.32	41.07	/	Pass
	3500.01	Outer_Full	38.29	40.91	/	Pass
	3529.98	Outer_Full	38.21	41.29	/	Pass

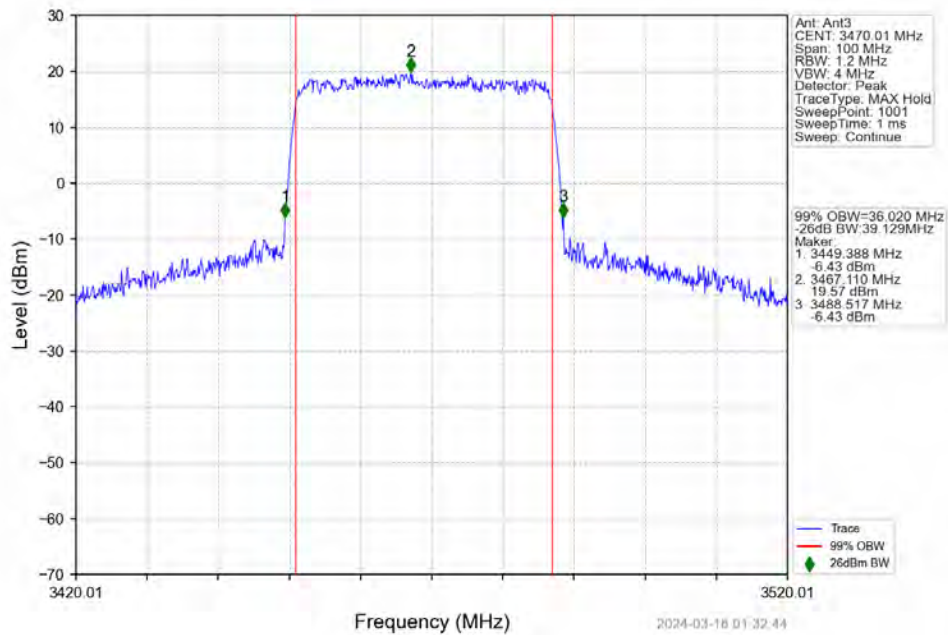
3.3.2 Test Graph



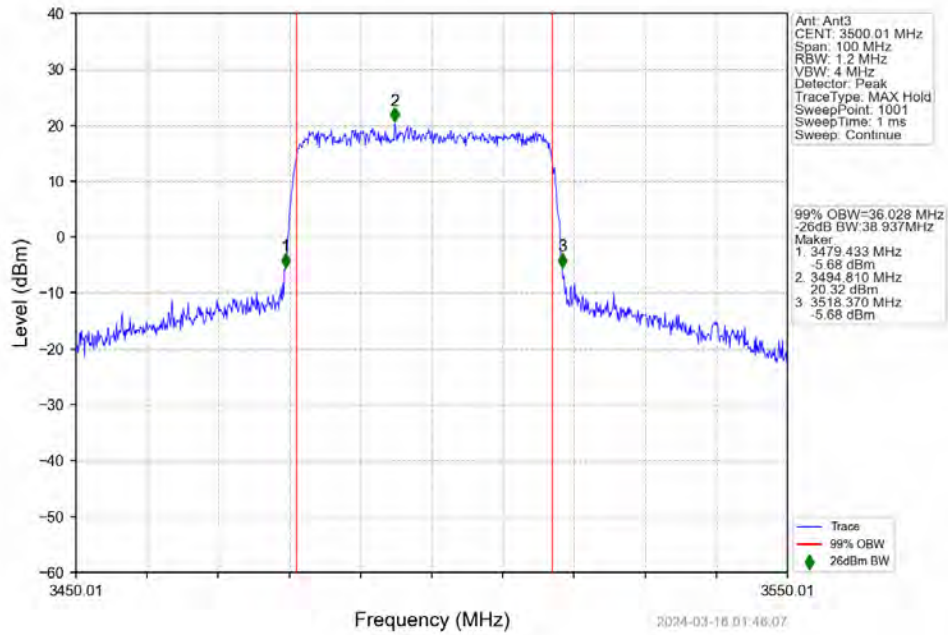
n78e 30kHz SISO NTN 40MHz DFT-s-OFDM PI/2 BPSK 3529.98MHz Outer Full



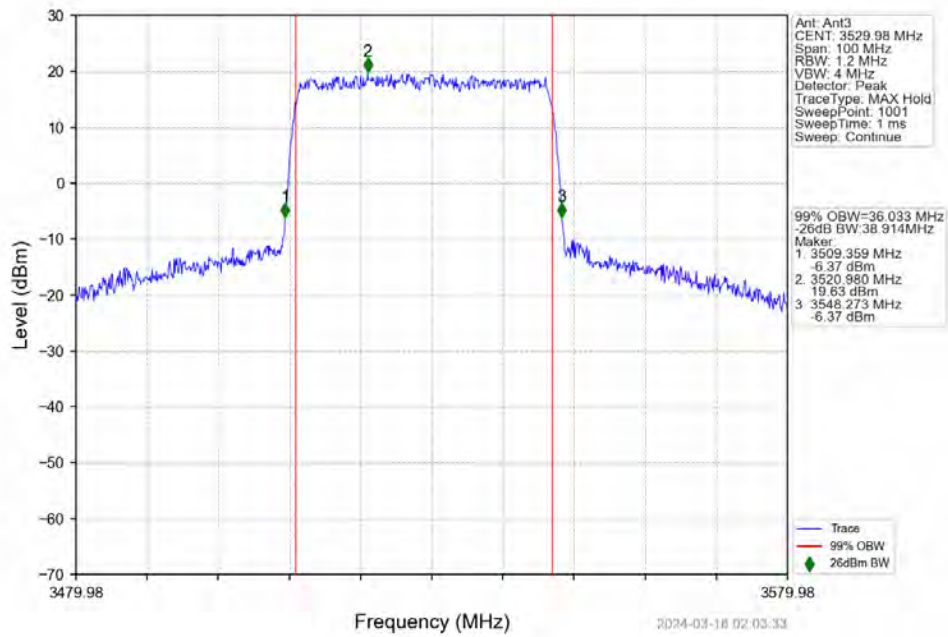
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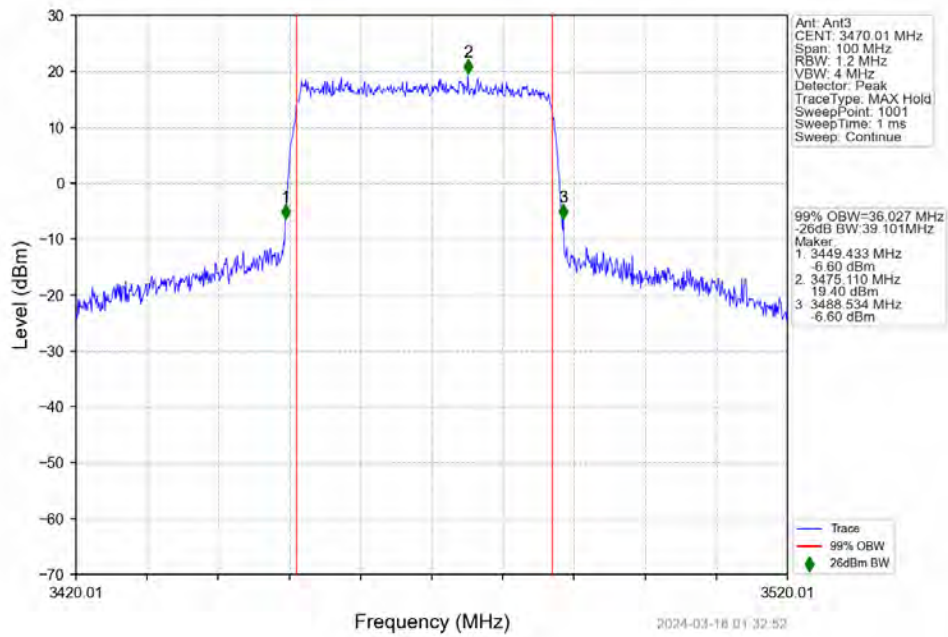
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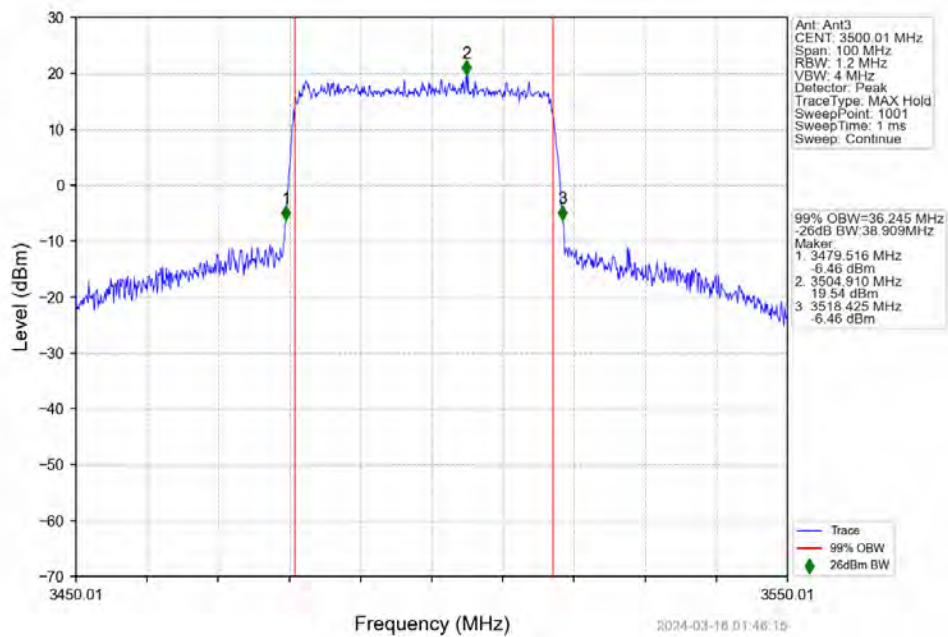
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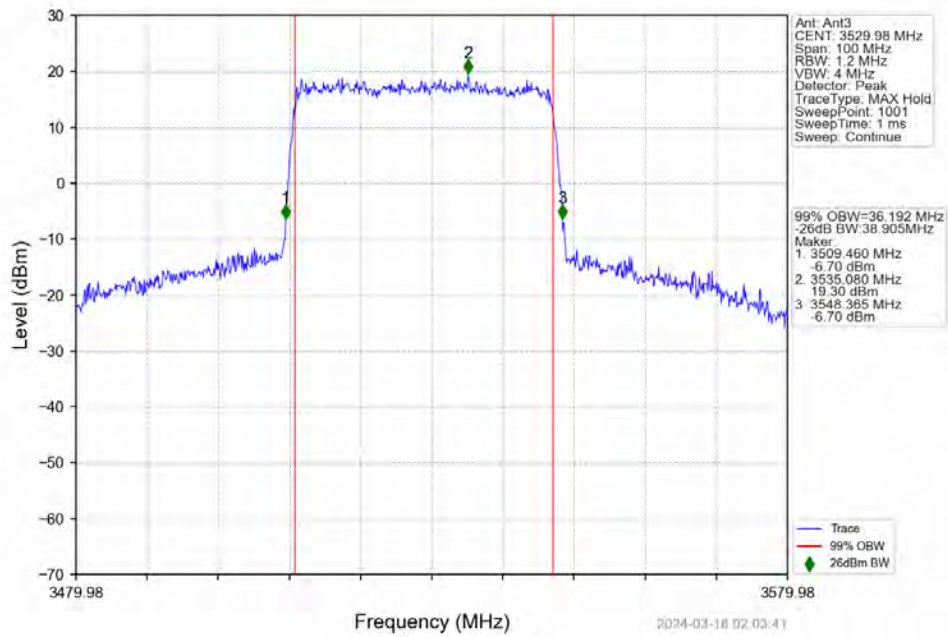
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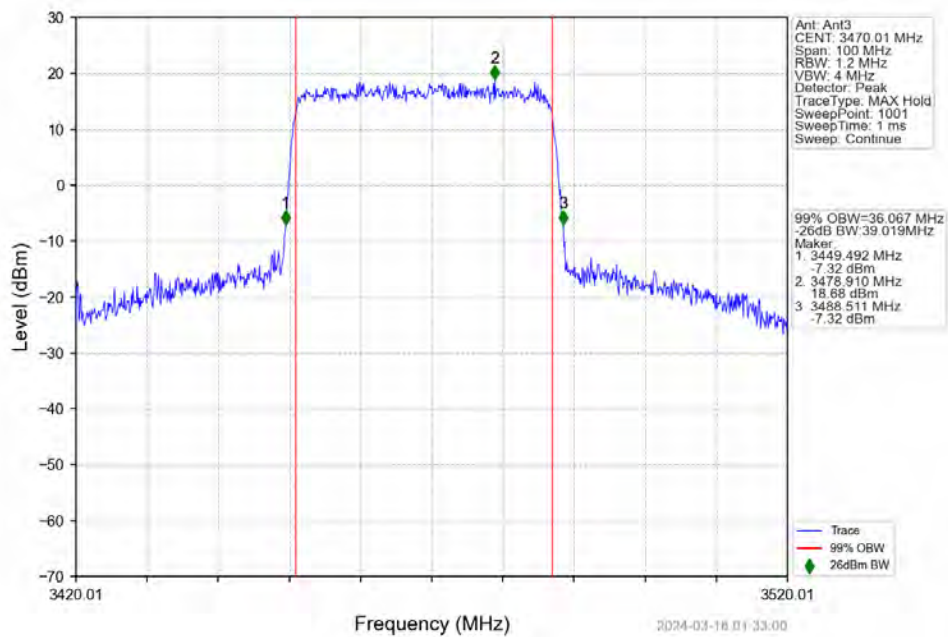
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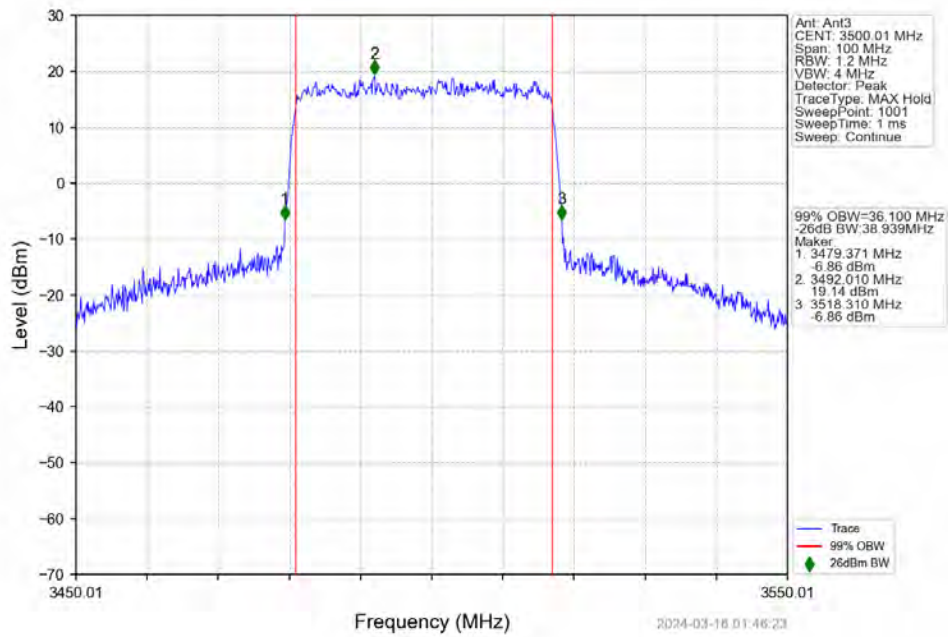
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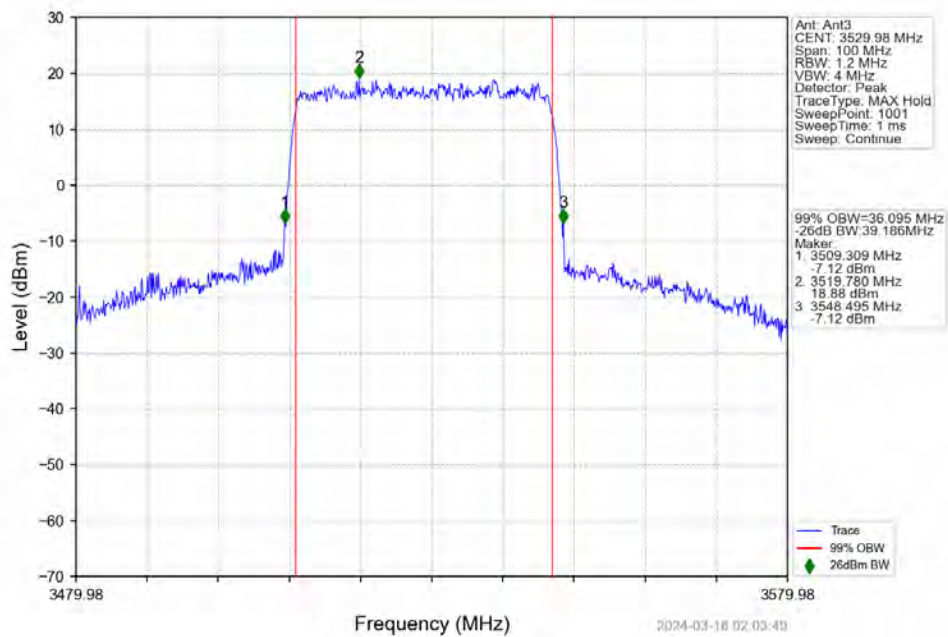
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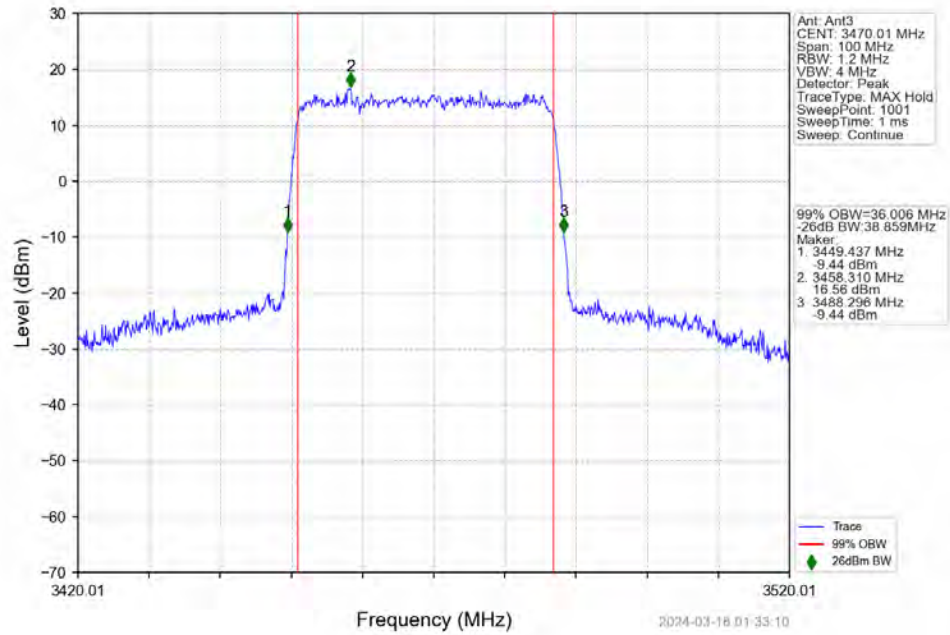
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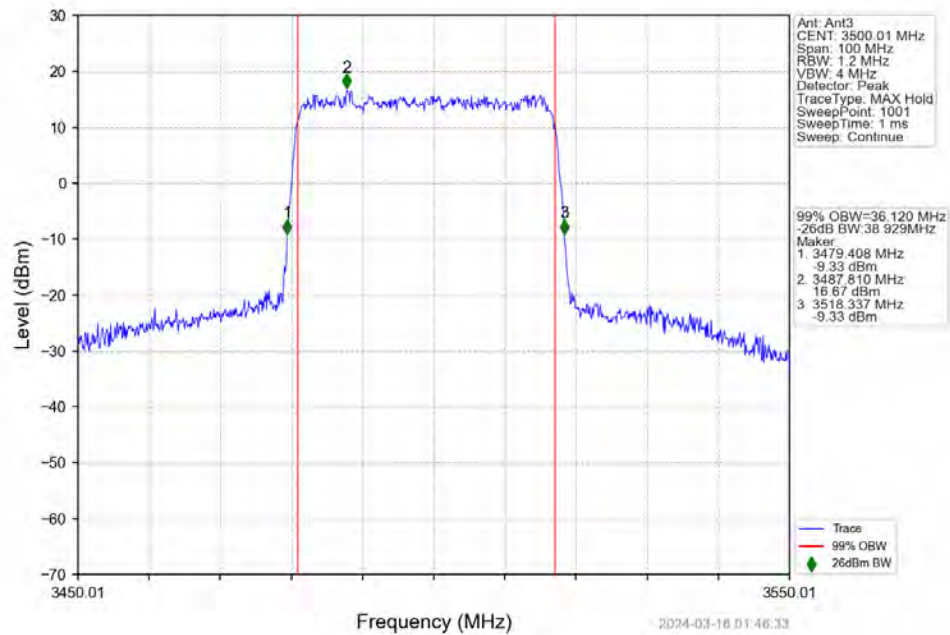
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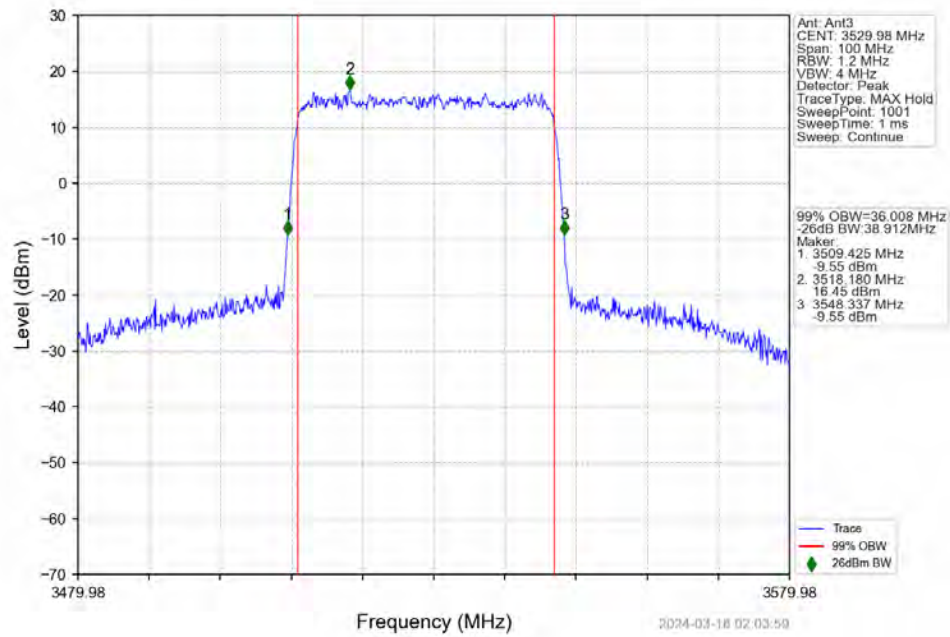
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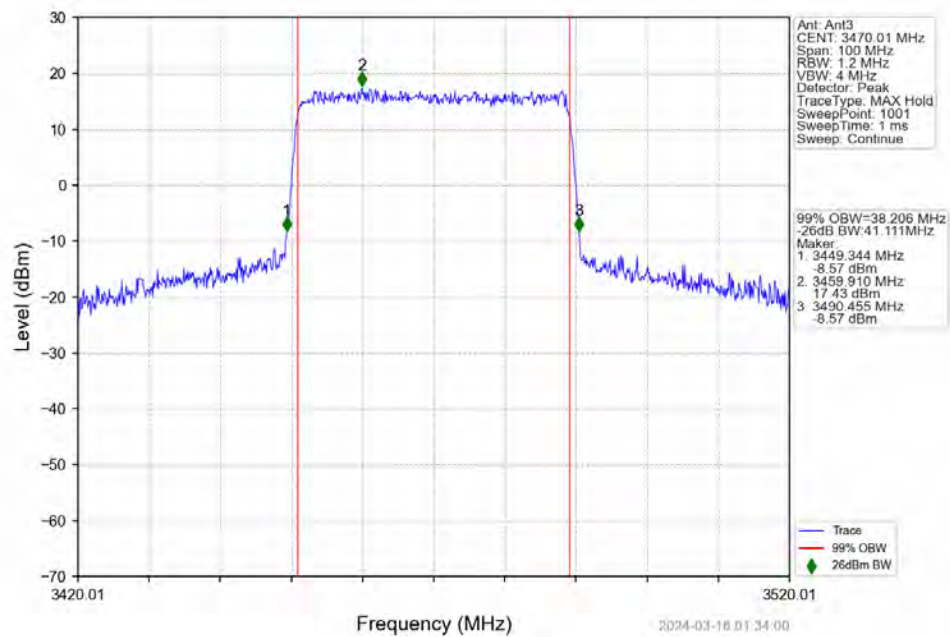
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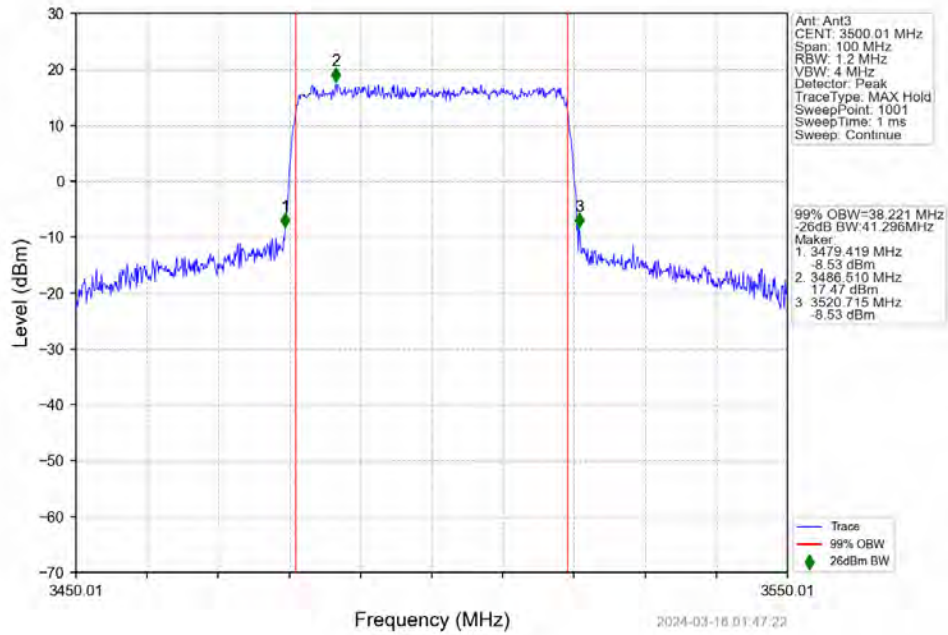
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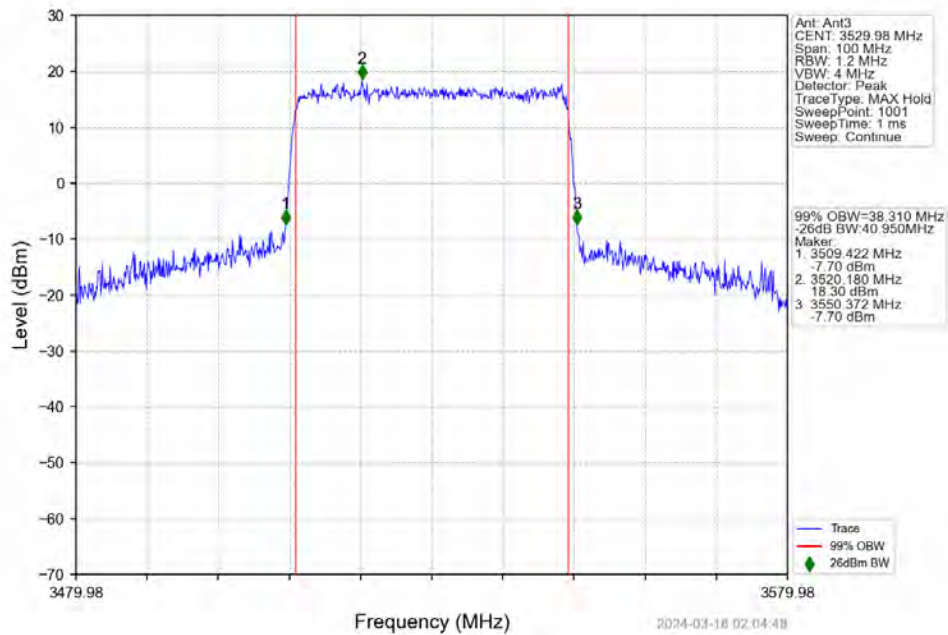
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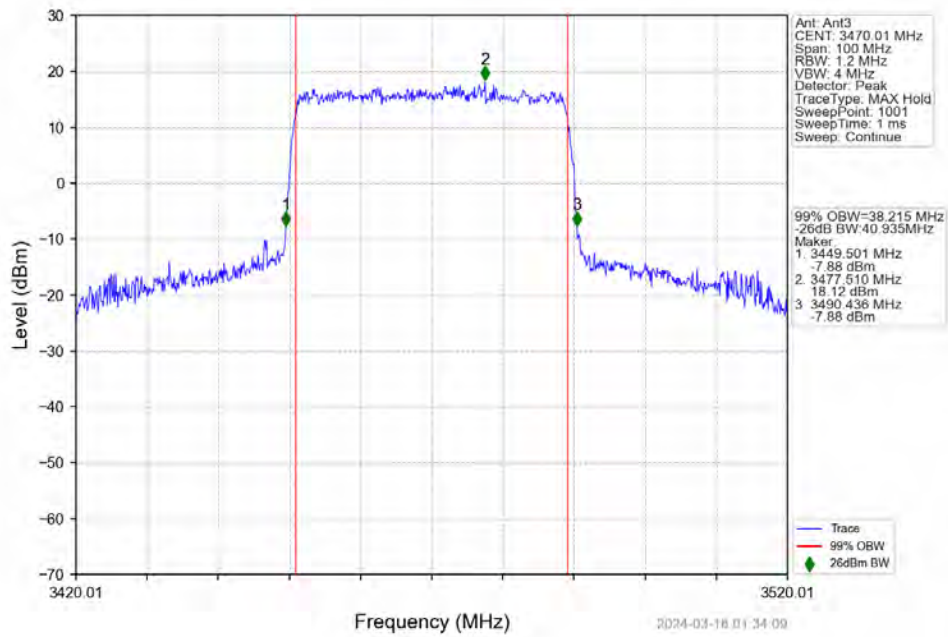
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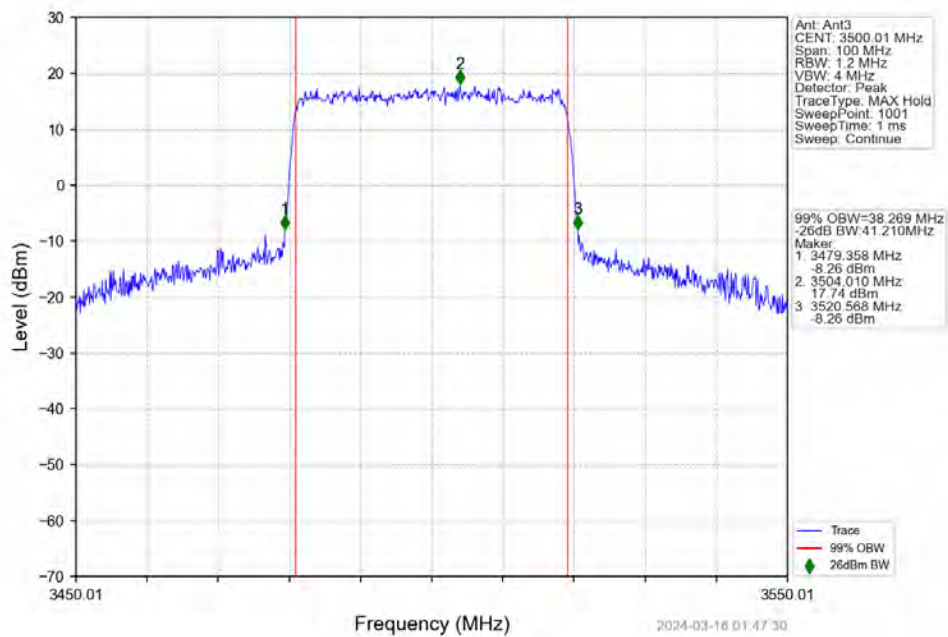
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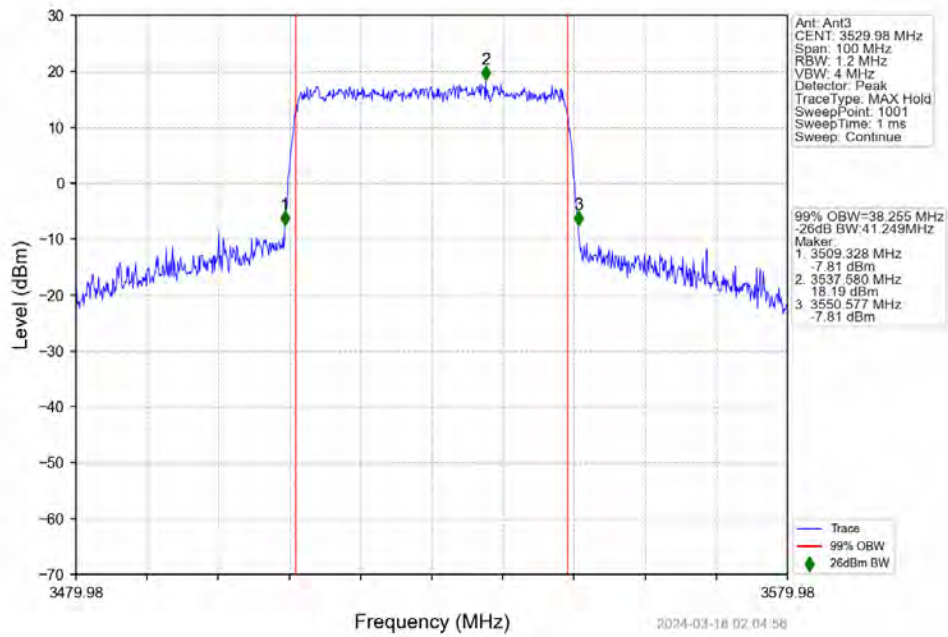
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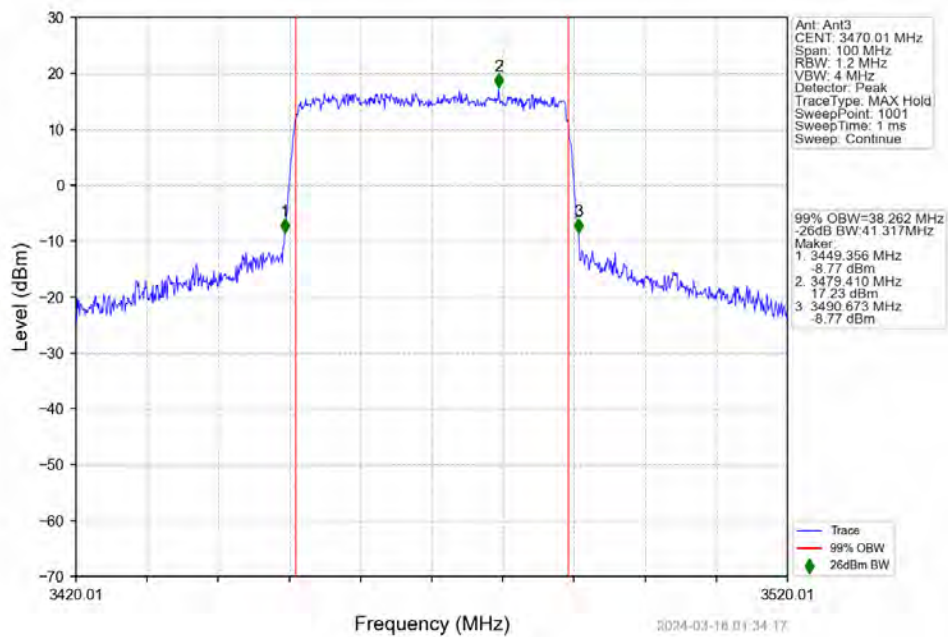
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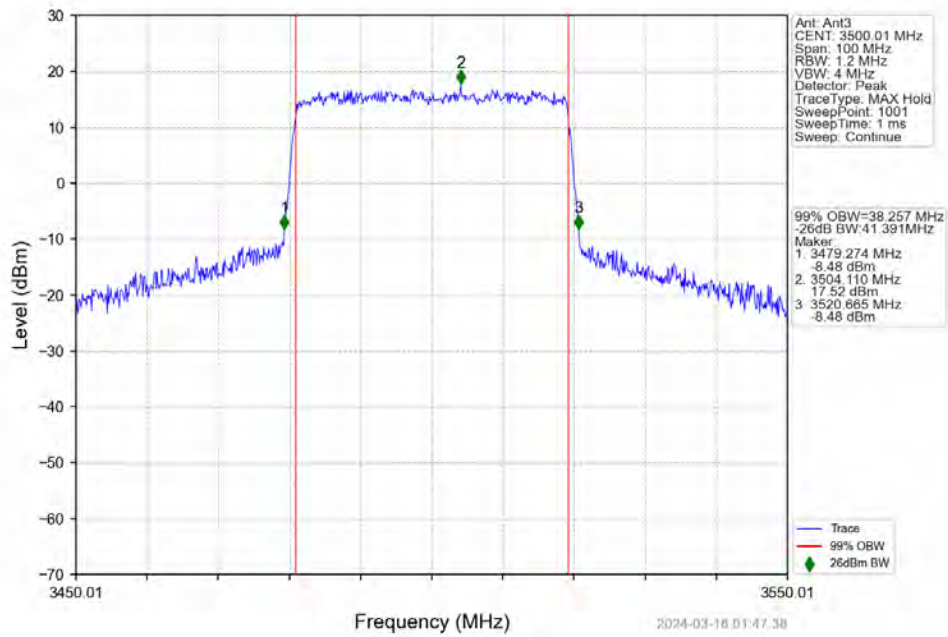
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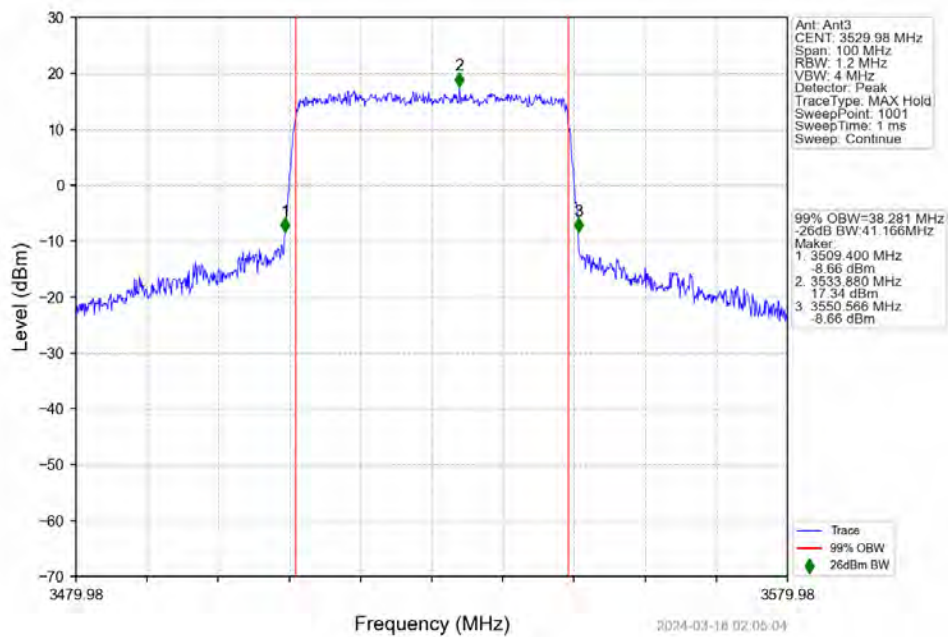
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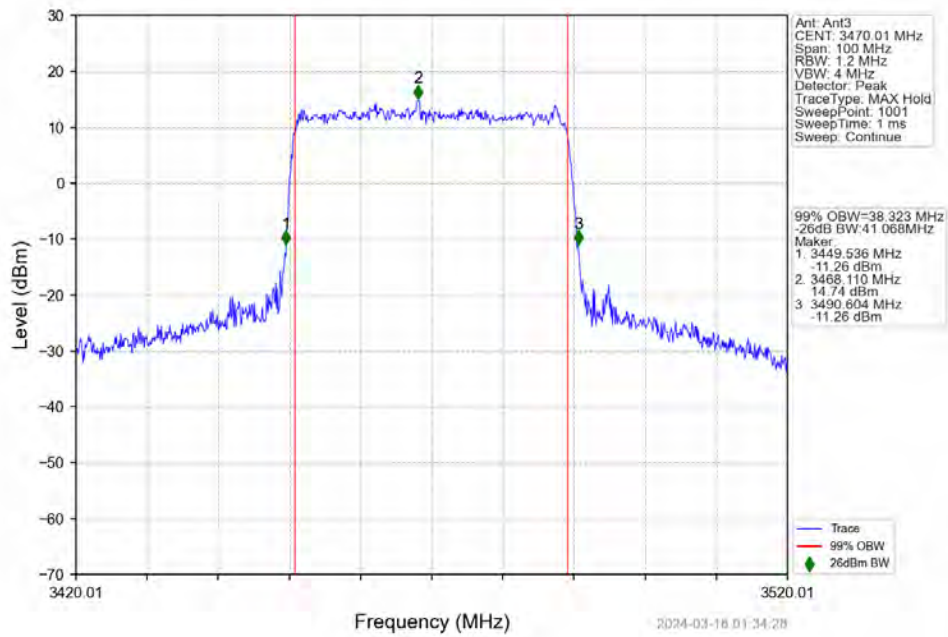
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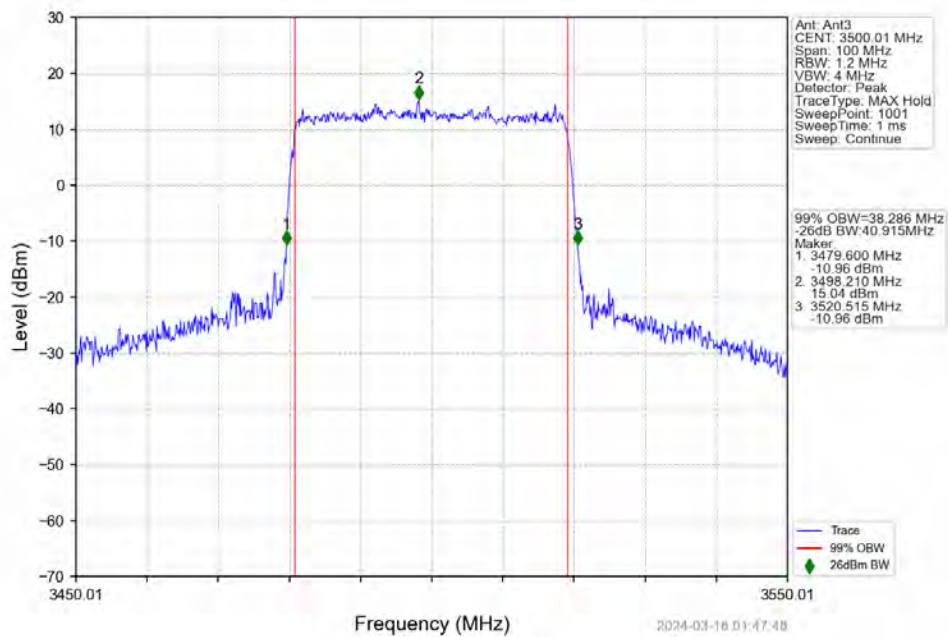
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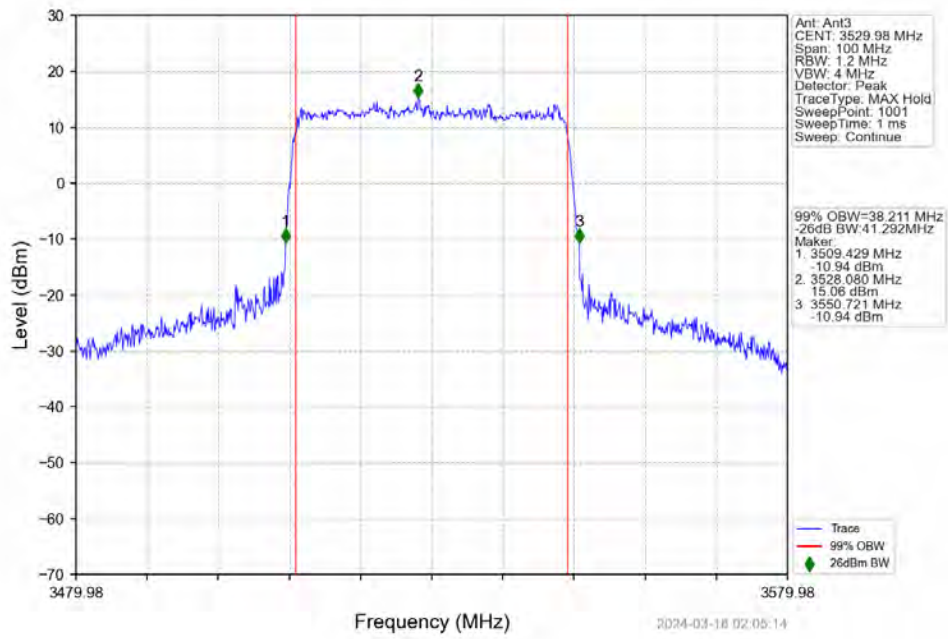
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n78e 30kHz SISO NTN 40MHz CP-OFDM 256 QAM 3500.01MHz Outer Full



n78e 30kHz SISO NTN 40MHz CP-OFDM 256 QAM 3529.98MHz Outer Full

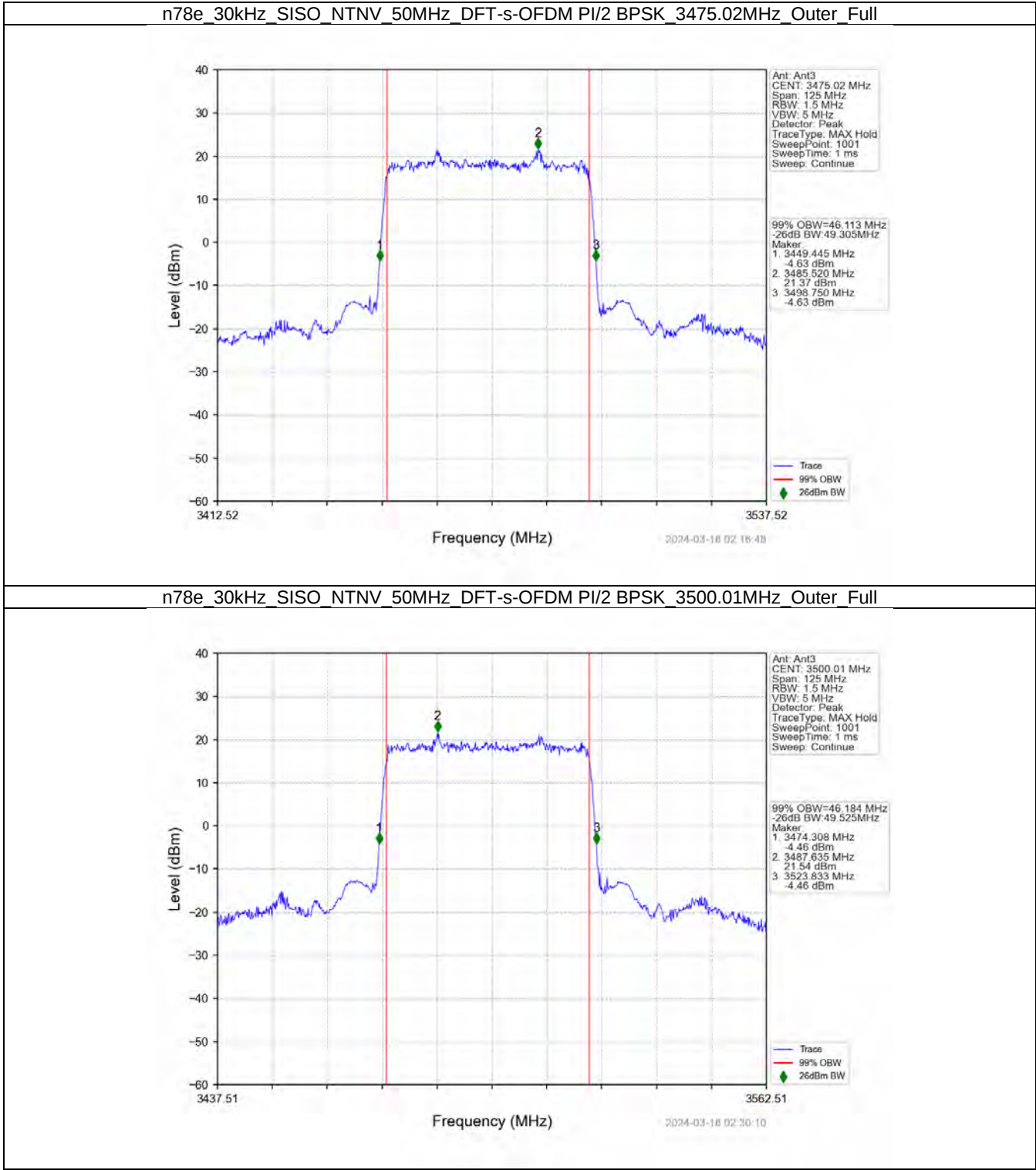


3.4 30k_SISO_50MHz_NTNV

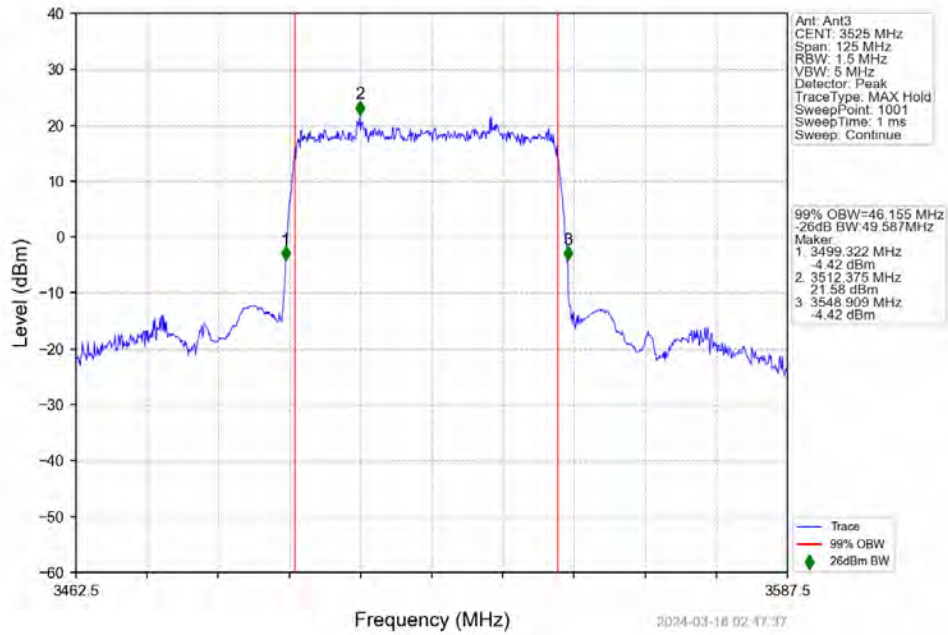
3.4.1 Test Result

5G NR n78e SCS=30kHz SISO 50MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3475.02	Outer_Full	46.11	49.30	/	Pass
	3500.01	Outer_Full	46.18	49.52	/	Pass
	3525	Outer_Full	46.16	49.59	/	Pass
DFT-s-OFDM QPSK	3475.02	Outer_Full	46.24	49.59	/	Pass
	3500.01	Outer_Full	46.24	49.47	/	Pass
	3525	Outer_Full	46.17	49.63	/	Pass
DFT-s-OFDM 16 QAM	3475.02	Outer_Full	46.20	49.54	/	Pass
	3500.01	Outer_Full	46.37	49.41	/	Pass
	3525	Outer_Full	46.22	49.44	/	Pass
DFT-s-OFDM 64 QAM	3475.02	Outer_Full	46.01	49.27	/	Pass
	3500.01	Outer_Full	46.05	49.48	/	Pass
	3525	Outer_Full	46.06	49.35	/	Pass
DFT-s-OFDM 256 QAM	3475.02	Outer_Full	46.13	49.40	/	Pass
	3500.01	Outer_Full	46.11	49.44	/	Pass
	3525	Outer_Full	46.15	49.38	/	Pass
CP-OFDM QPSK	3475.02	Outer_Full	47.96	51.26	/	Pass
	3500.01	Outer_Full	47.93	51.29	/	Pass
	3525	Outer_Full	47.90	51.34	/	Pass
CP-OFDM 16 QAM	3475.02	Outer_Full	48.01	51.38	/	Pass
	3500.01	Outer_Full	48.06	51.31	/	Pass
	3525	Outer_Full	48.03	51.31	/	Pass
CP-OFDM 64 QAM	3475.02	Outer_Full	47.91	51.38	/	Pass
	3500.01	Outer_Full	47.96	51.38	/	Pass
	3525	Outer_Full	47.92	51.57	/	Pass
CP-OFDM 256 QAM	3475.02	Outer_Full	47.88	51.23	/	Pass
	3500.01	Outer_Full	47.86	51.24	/	Pass
	3525	Outer_Full	47.93	51.30	/	Pass

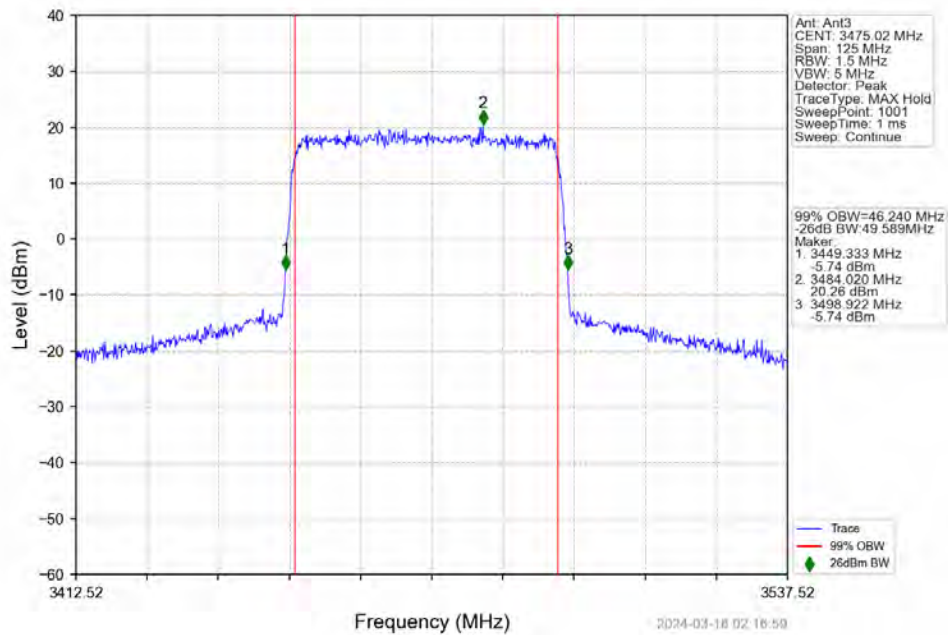
3.4.2 Test Graph



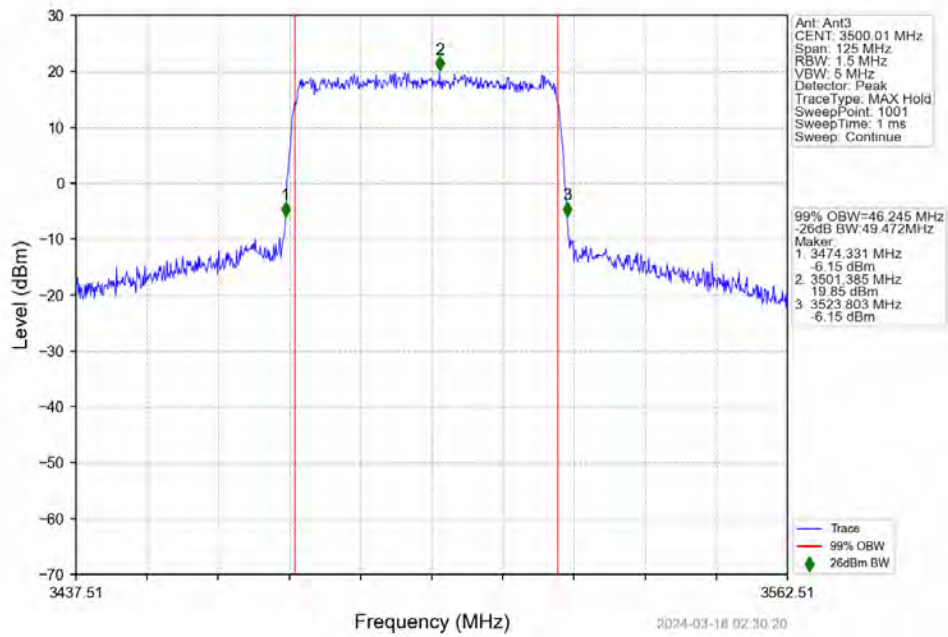
n78e 30kHz SISO NTN 50MHz DFT-s-OFDM PI/2 BPSK 3525MHz Outer Full



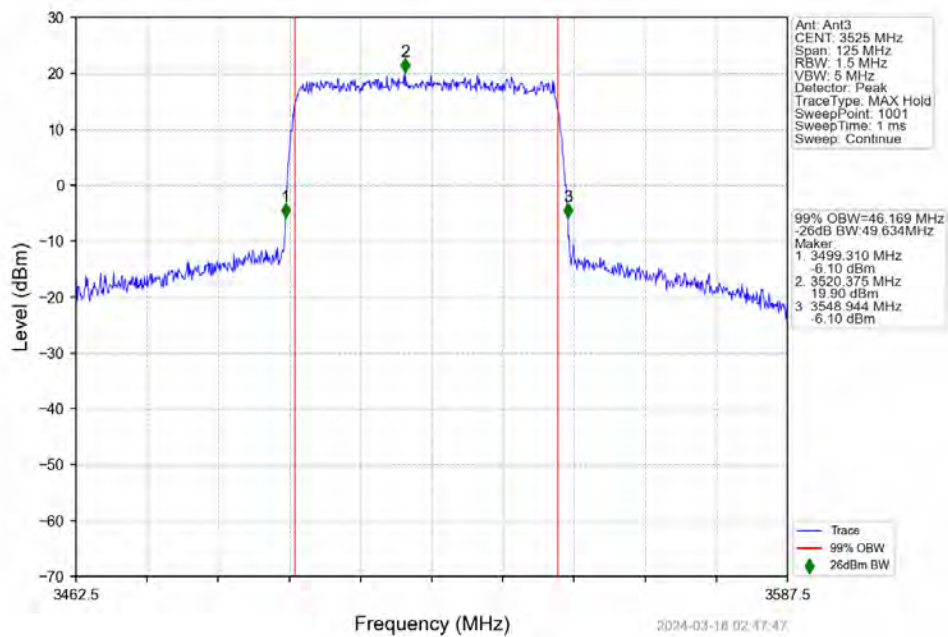
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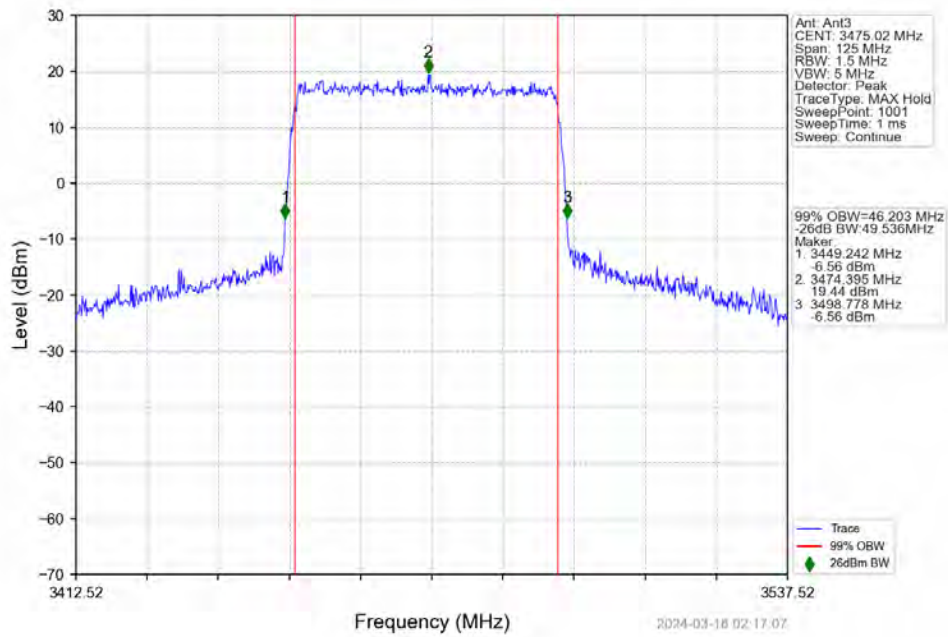
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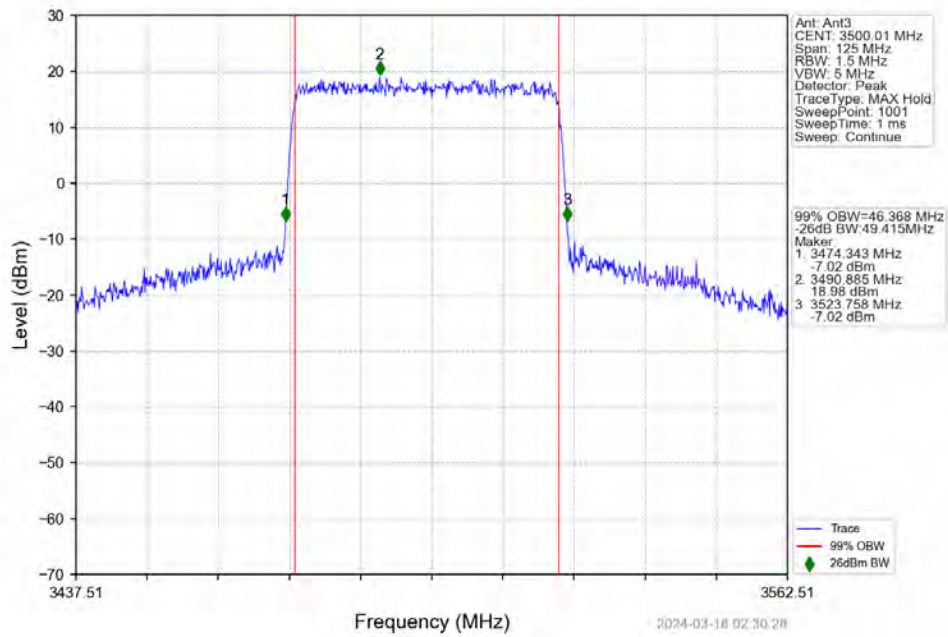
n78e 30kHz SISO NTN 50MHz DFT-s-OFDM QPSK 3525MHz Outer Full



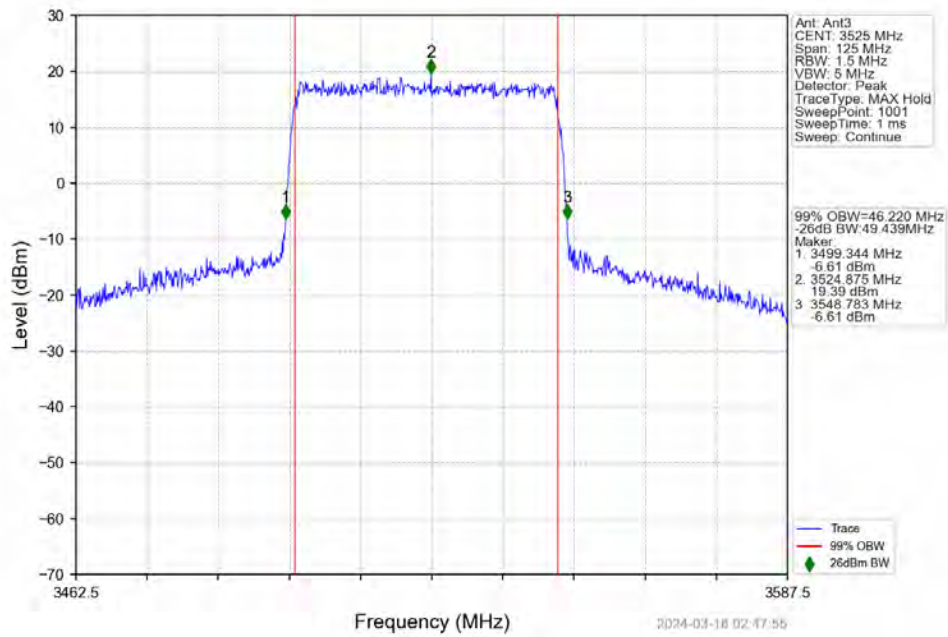
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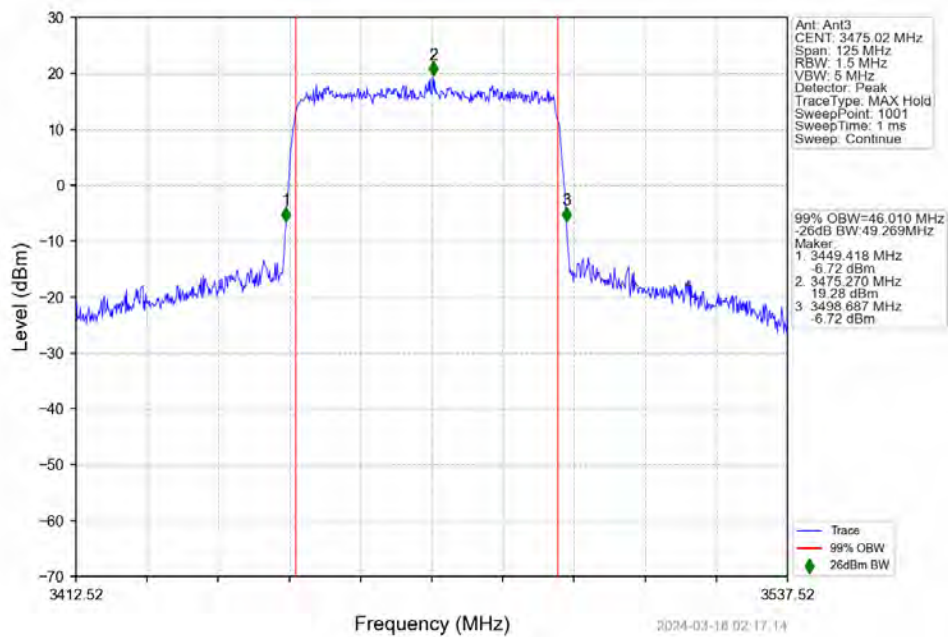
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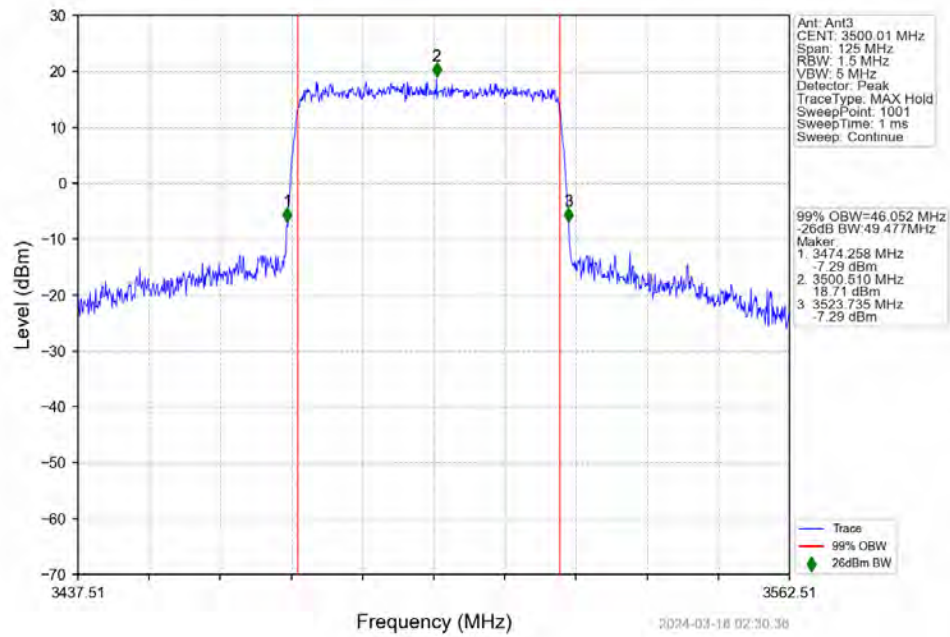
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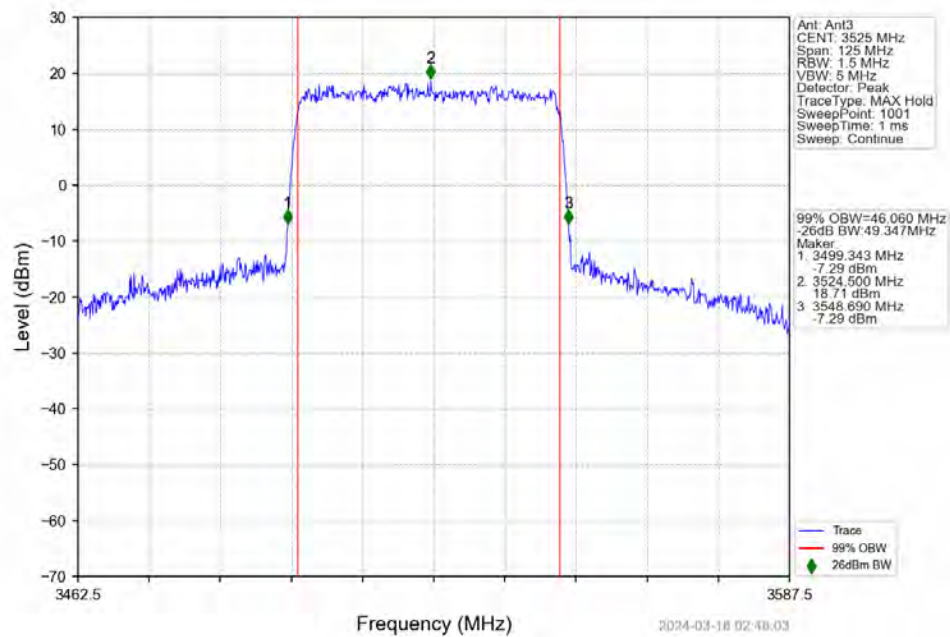
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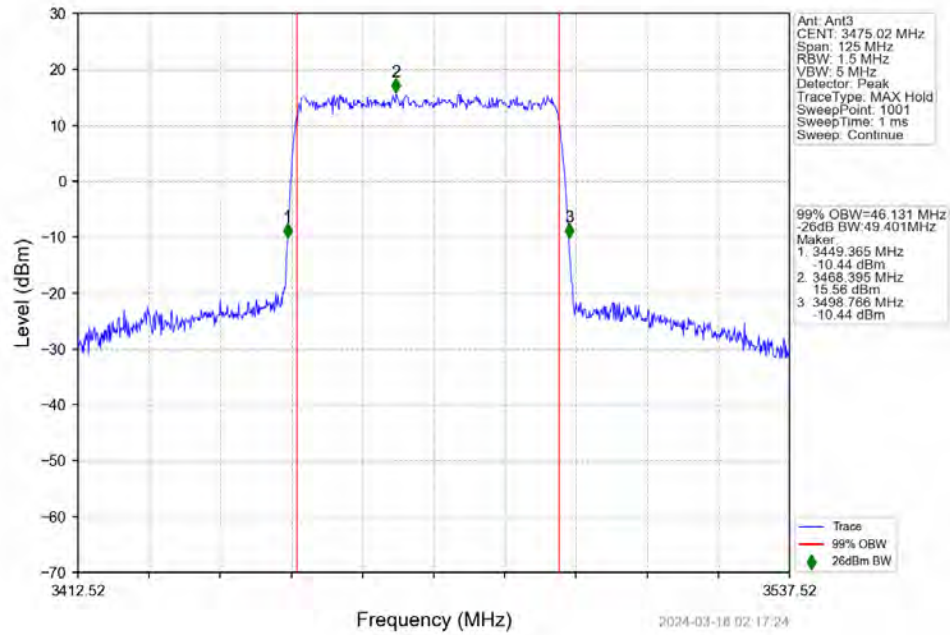
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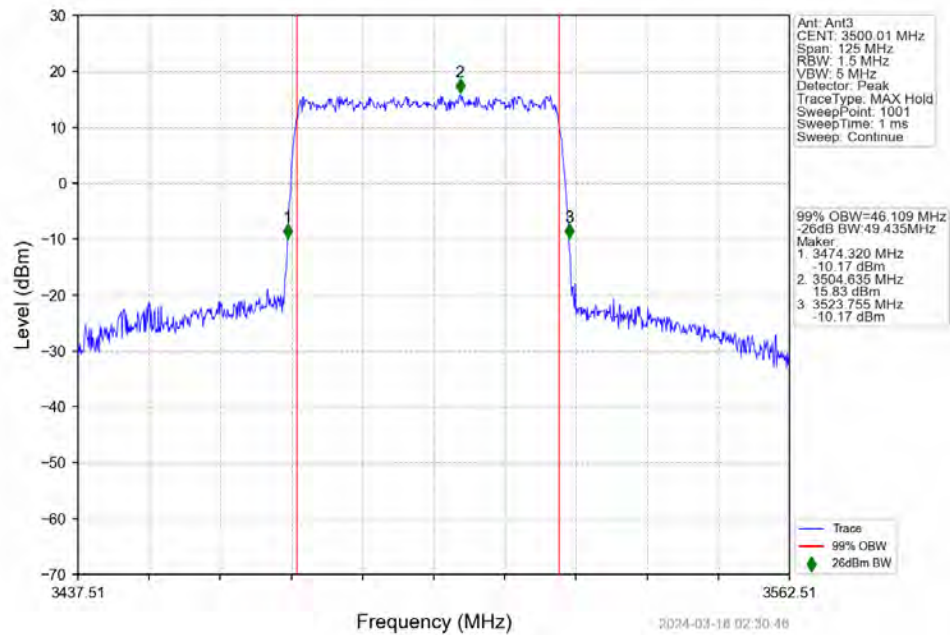
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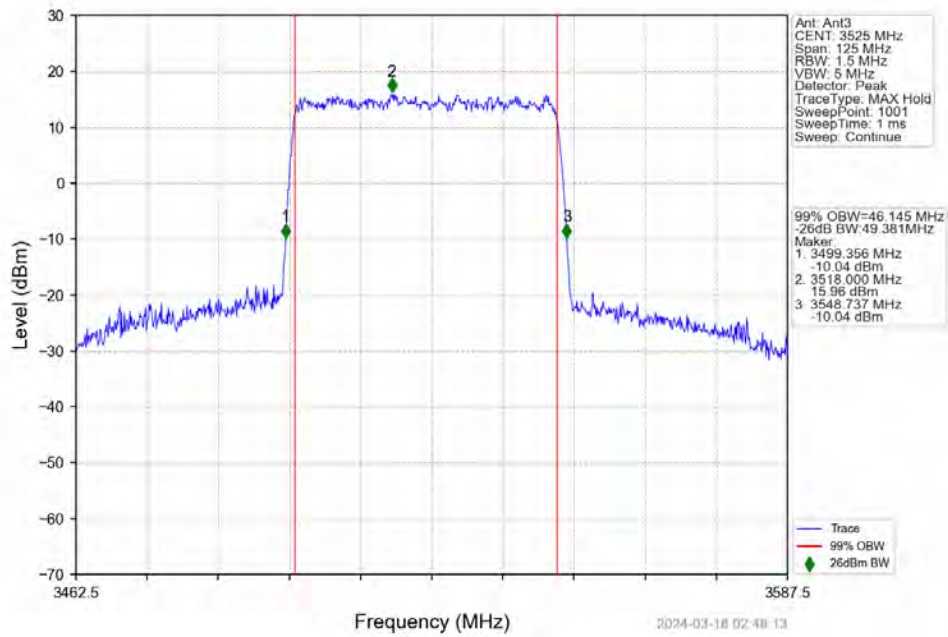
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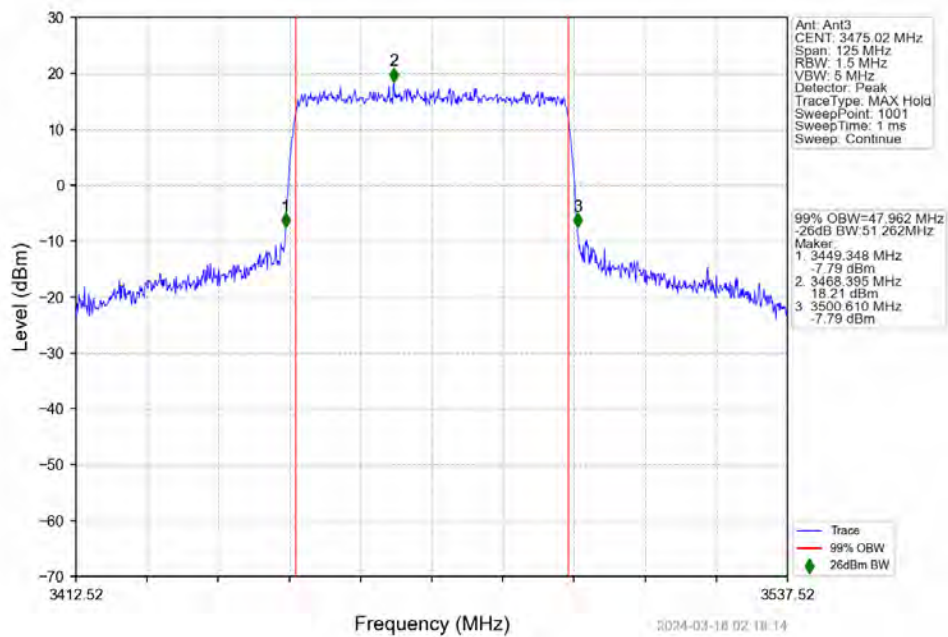
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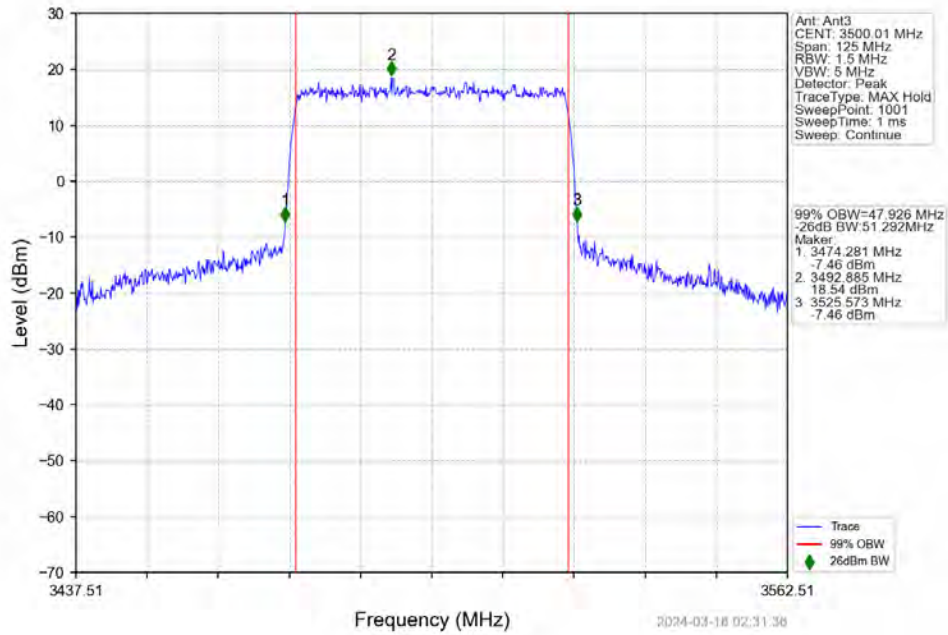
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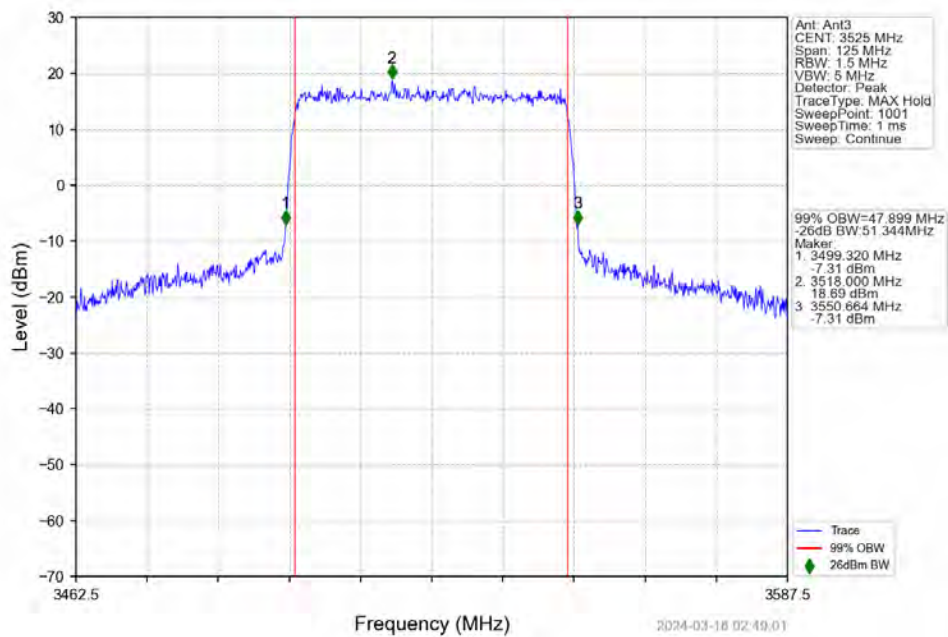
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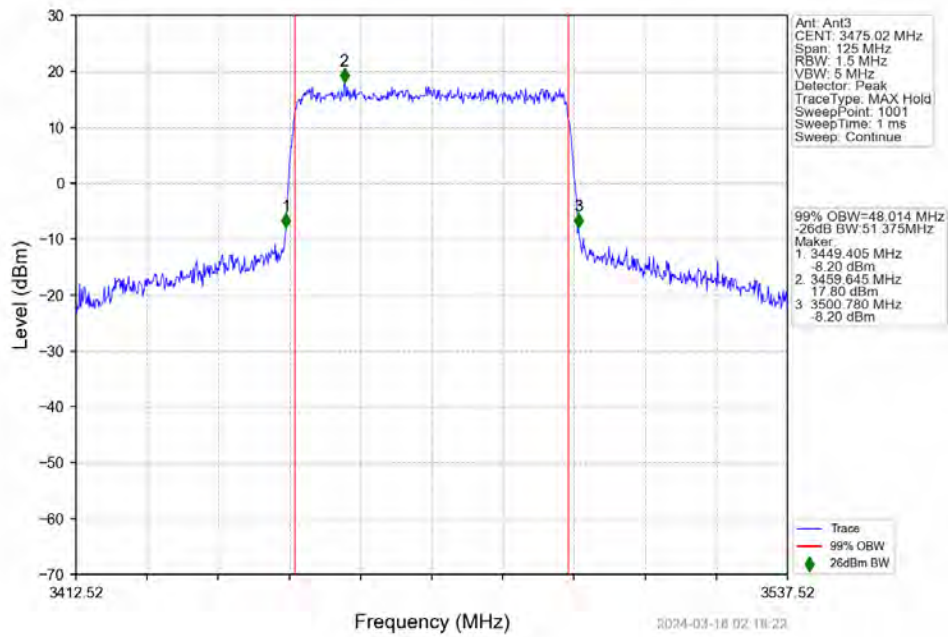
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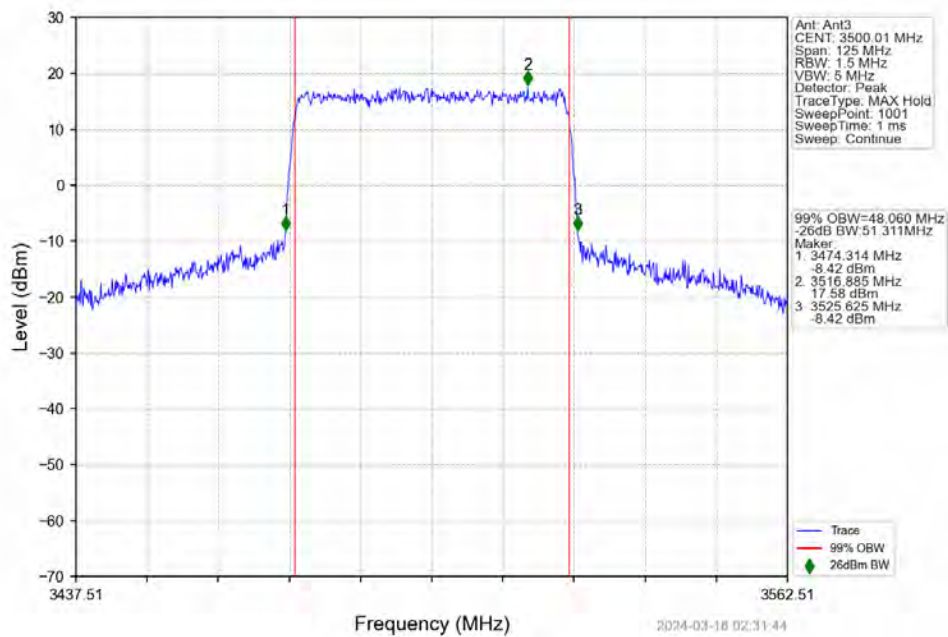
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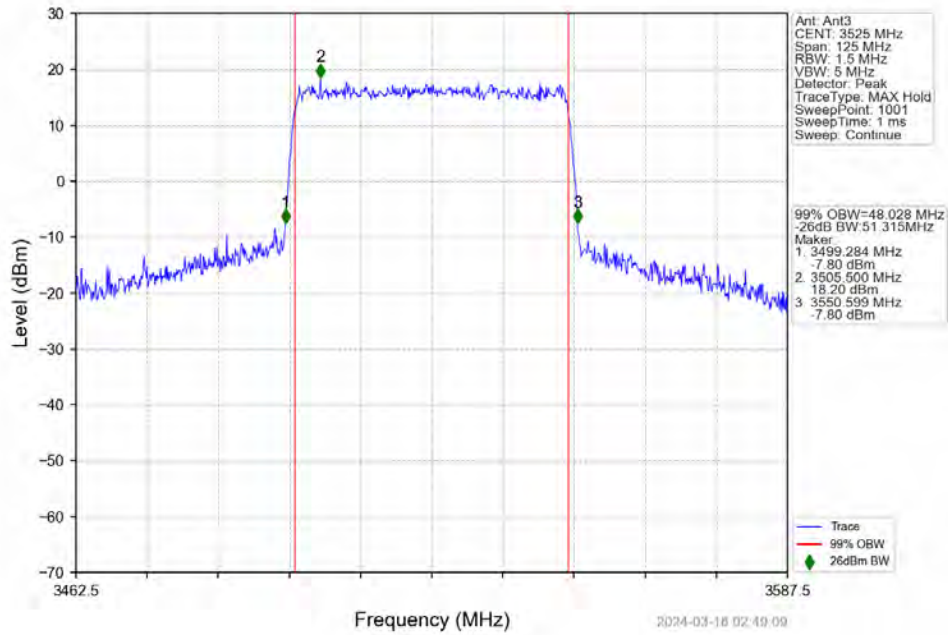
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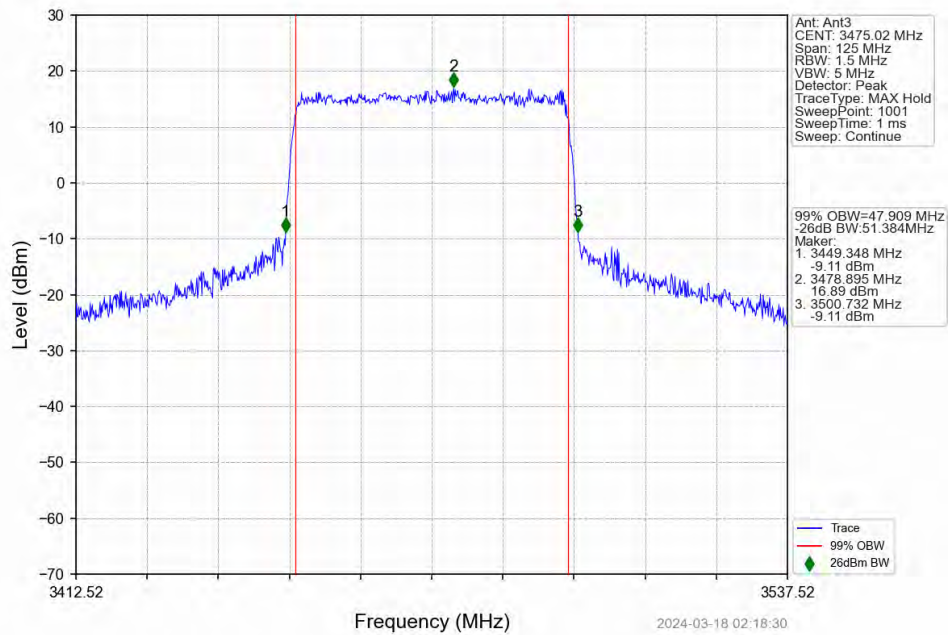
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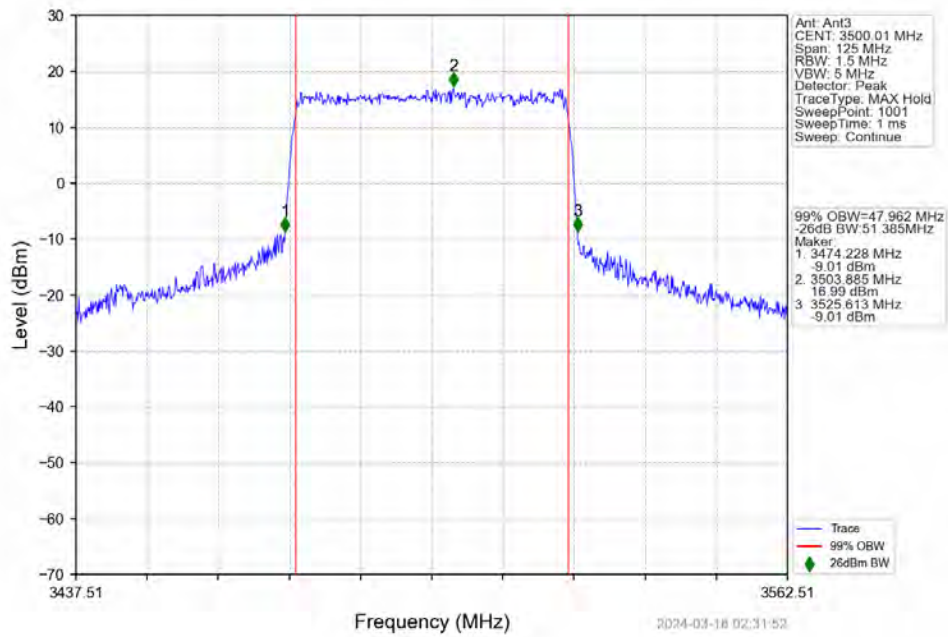
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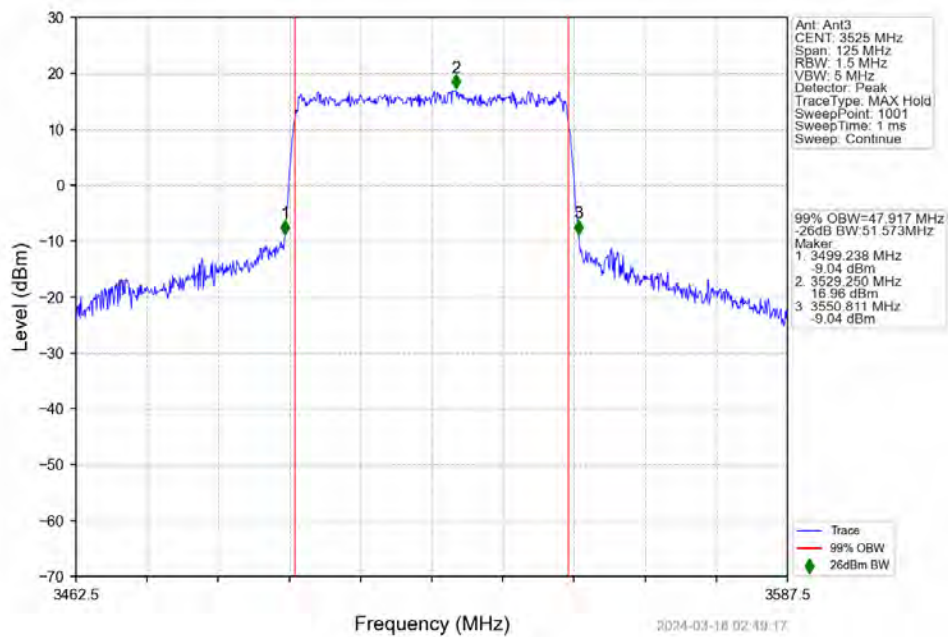
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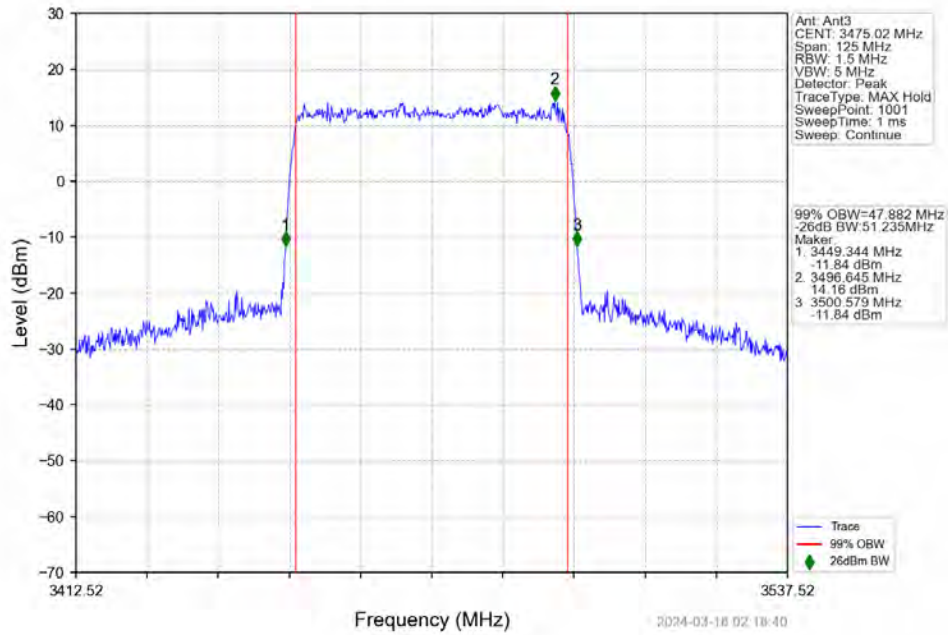
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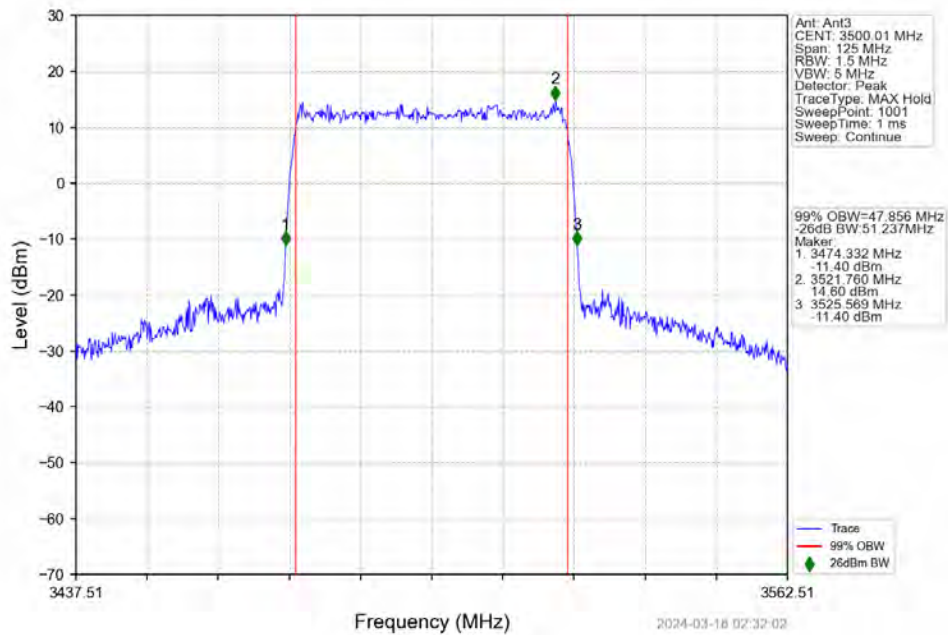
n78e 30kHz SISO NTN 50MHz CP-OFDM 64 QAM 3525MHz Outer Full



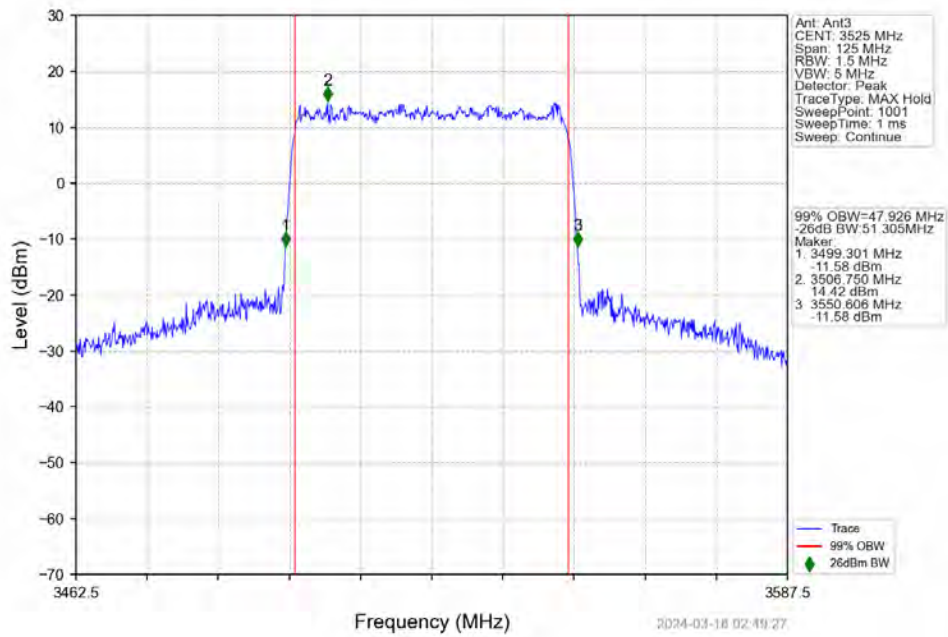
n78e 30kHz SISO NTN 50MHz CP-OFDM 256 QAM 3475.02MHz Outer Full



n78e 30kHz SISO NTN 50MHz CP-OFDM 256 QAM 3500.01MHz Outer Full



n78e 30kHz SISO NTN 50MHz CP-OFDM 256 QAM 3525MHz Outer Full

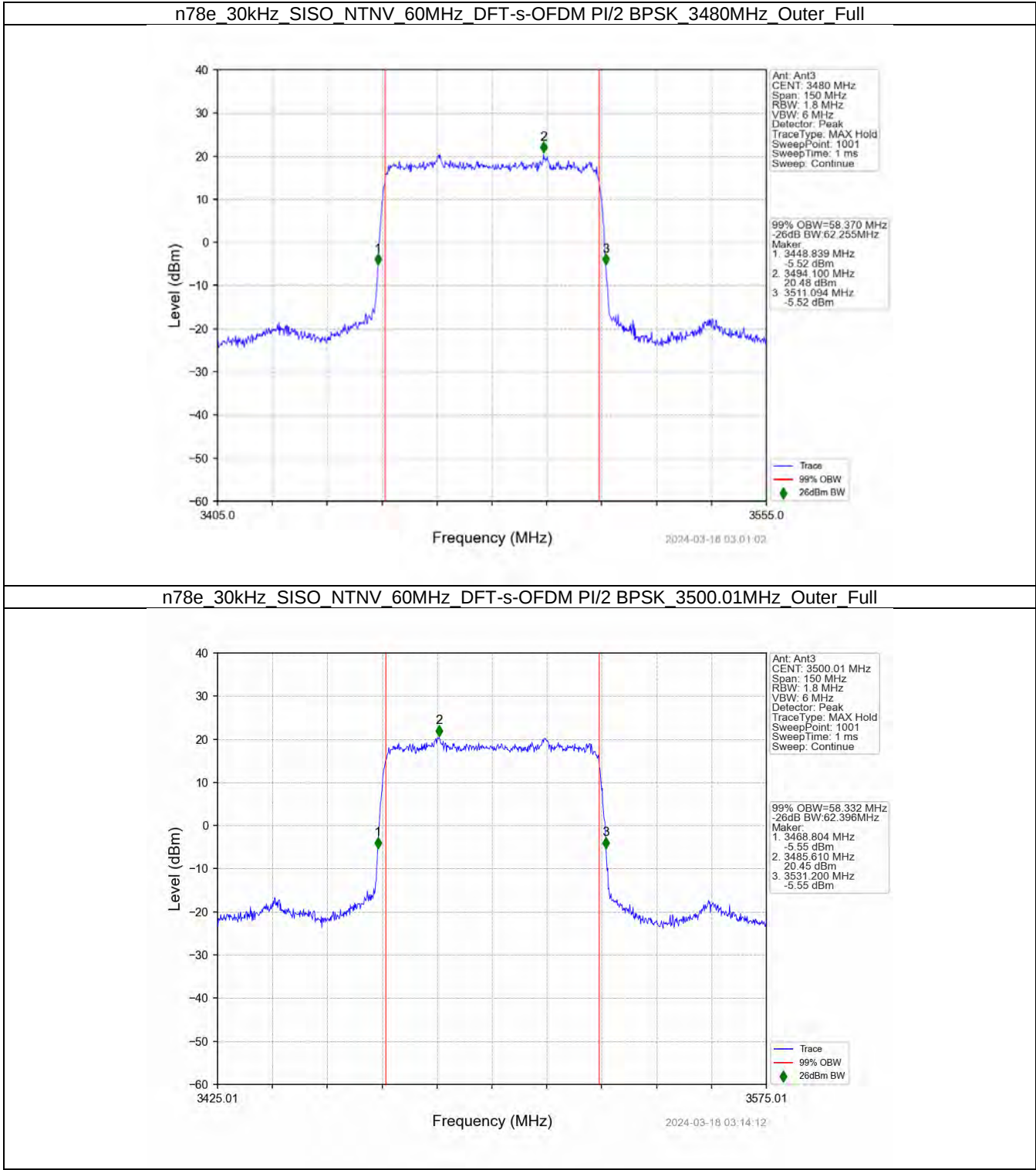


3.5 30k_SISO_60MHz_NTNV

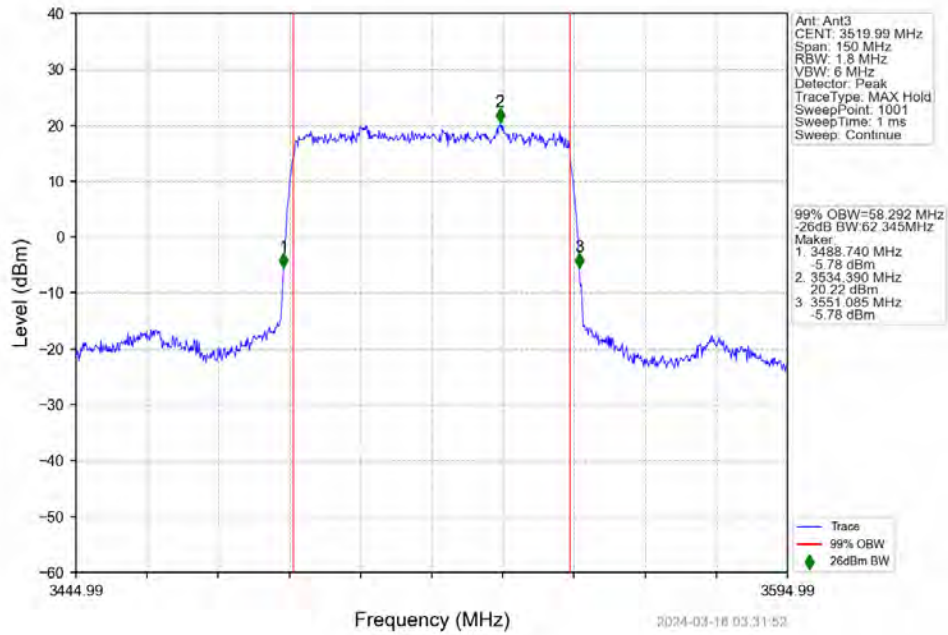
3.5.1 Test Result

5G NR n78e SCS=30kHz SISO 60MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3480	Outer_Full	58.37	62.26	/	Pass
	3500.01	Outer_Full	58.33	62.40	/	Pass
	3519.99	Outer_Full	58.29	62.34	/	Pass
DFT-s-OFDM QPSK	3480	Outer_Full	58.59	62.48	/	Pass
	3500.01	Outer_Full	58.58	62.60	/	Pass
	3519.99	Outer_Full	58.51	62.38	/	Pass
DFT-s-OFDM 16 QAM	3480	Outer_Full	58.37	62.24	/	Pass
	3500.01	Outer_Full	58.43	62.34	/	Pass
	3519.99	Outer_Full	58.43	62.35	/	Pass
DFT-s-OFDM 64 QAM	3480	Outer_Full	58.37	62.48	/	Pass
	3500.01	Outer_Full	58.23	62.34	/	Pass
	3519.99	Outer_Full	58.23	62.56	/	Pass
DFT-s-OFDM 256 QAM	3480	Outer_Full	58.13	62.25	/	Pass
	3500.01	Outer_Full	58.06	62.17	/	Pass
	3519.99	Outer_Full	58.10	62.17	/	Pass
CP-OFDM QPSK	3480	Outer_Full	58.43	62.39	/	Pass
	3500.01	Outer_Full	58.46	62.37	/	Pass
	3519.99	Outer_Full	58.44	62.26	/	Pass
CP-OFDM 16 QAM	3480	Outer_Full	58.31	62.49	/	Pass
	3500.01	Outer_Full	58.21	62.45	/	Pass
	3519.99	Outer_Full	58.30	62.37	/	Pass
CP-OFDM 64 QAM	3480	Outer_Full	58.44	62.55	/	Pass
	3500.01	Outer_Full	58.36	62.46	/	Pass
	3519.99	Outer_Full	58.52	62.38	/	Pass
CP-OFDM 256 QAM	3480	Outer_Full	58.27	62.15	/	Pass
	3500.01	Outer_Full	58.34	62.24	/	Pass
	3519.99	Outer_Full	58.28	62.14	/	Pass

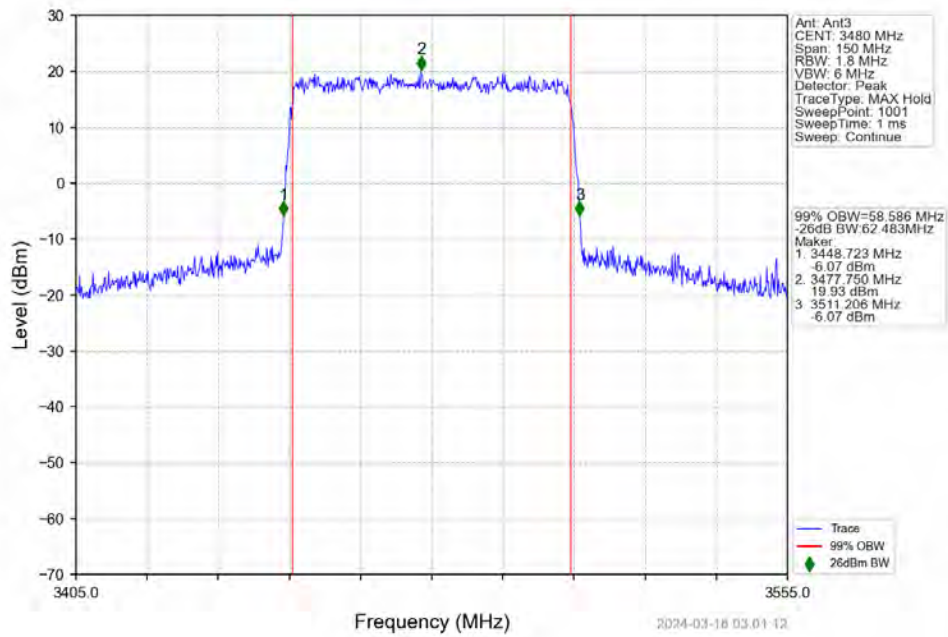
3.5.2 Test Graph



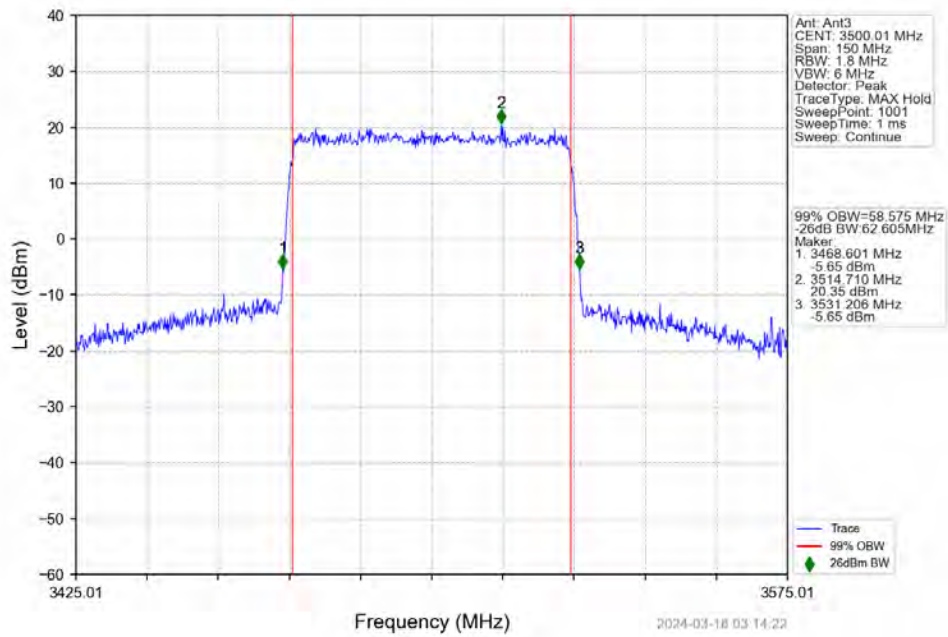
n78e 30kHz SISO NTNv 60MHz DFT-s-OFDM PI/2 BPSK 3519.99MHz Outer Full



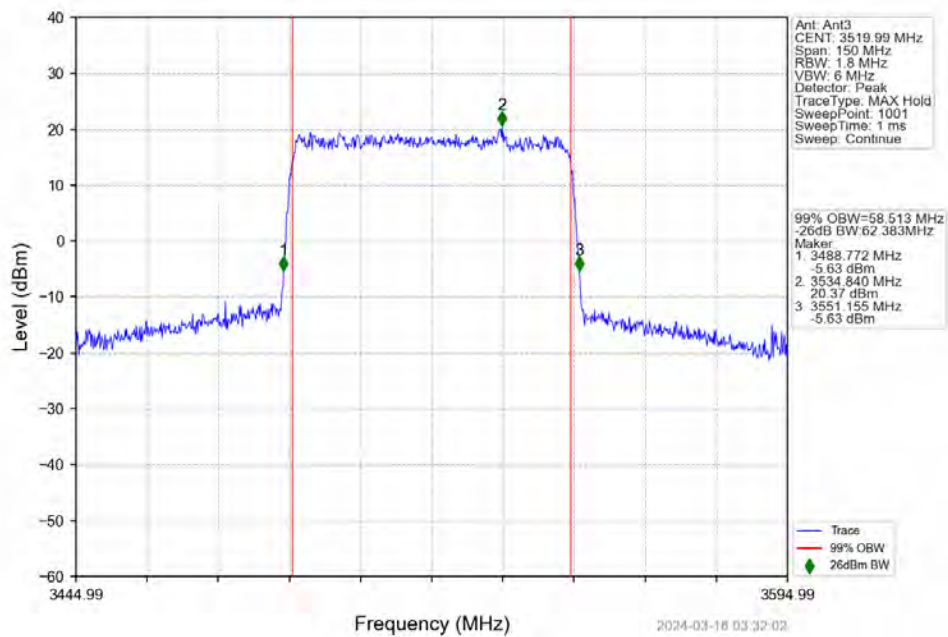
n78e 30kHz SISO NTNv 60MHz DFT-s-OFDM QPSK 3480MHz Outer Full



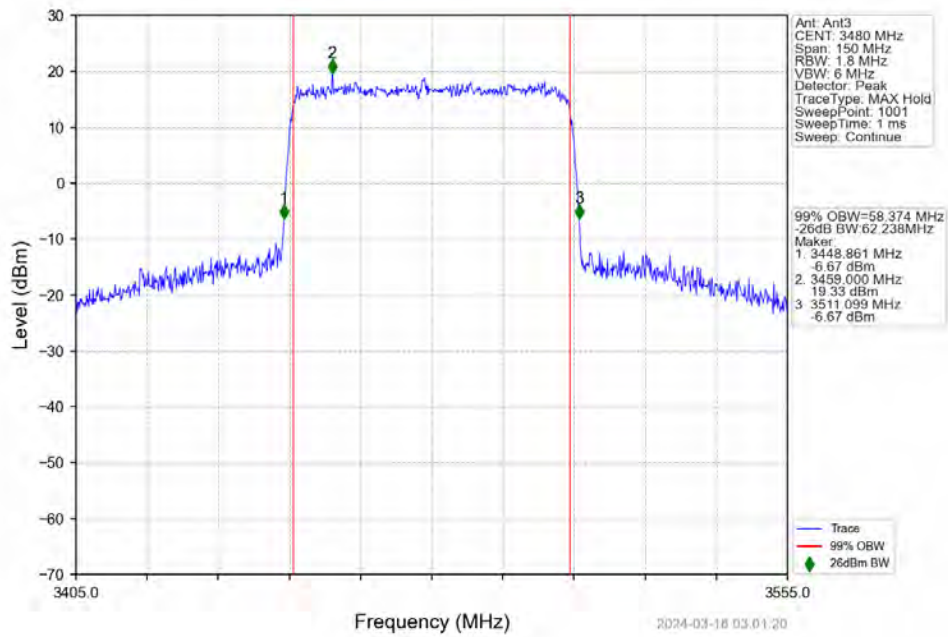
n78e 30kHz SISO NTN 60MHz DFT-s-OFDM QPSK 3500.01MHz Outer Full



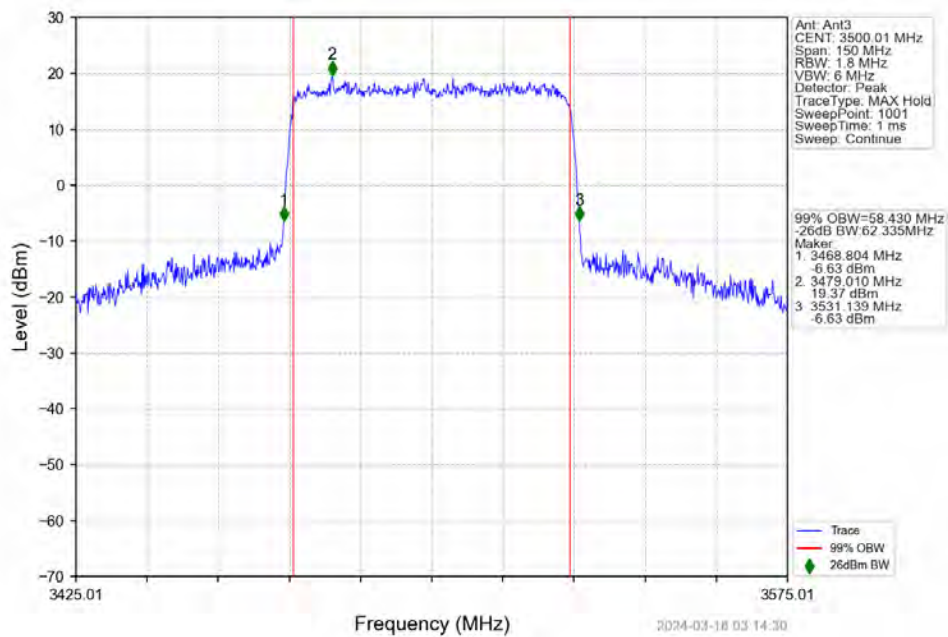
n78e 30kHz SISO NTN 60MHz DFT-s-OFDM QPSK 3519.99MHz Outer Full



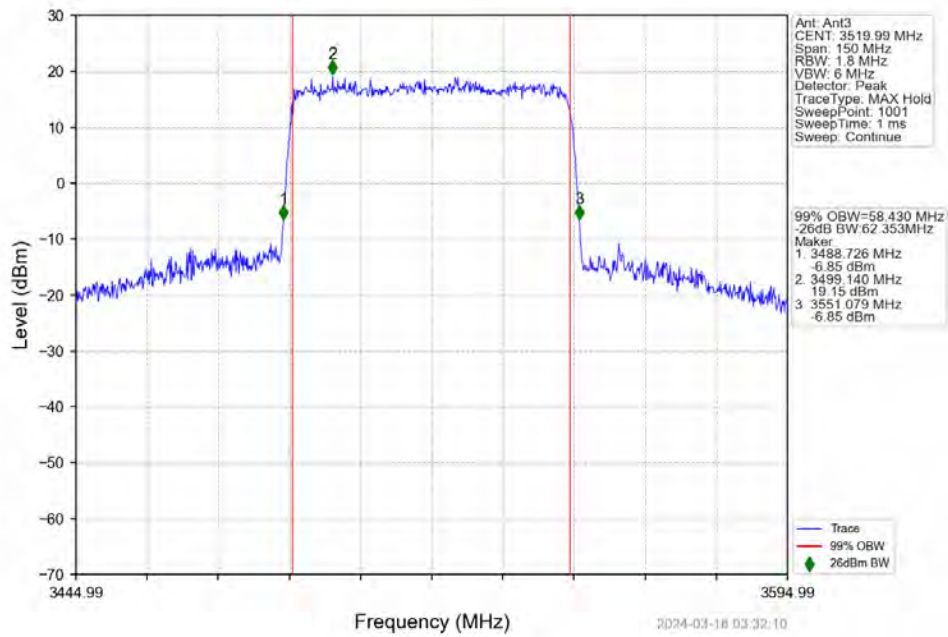
n78e 30kHz SISO NTN 60MHz DFT-s-OFDM 16 QAM 3480MHz Outer Full



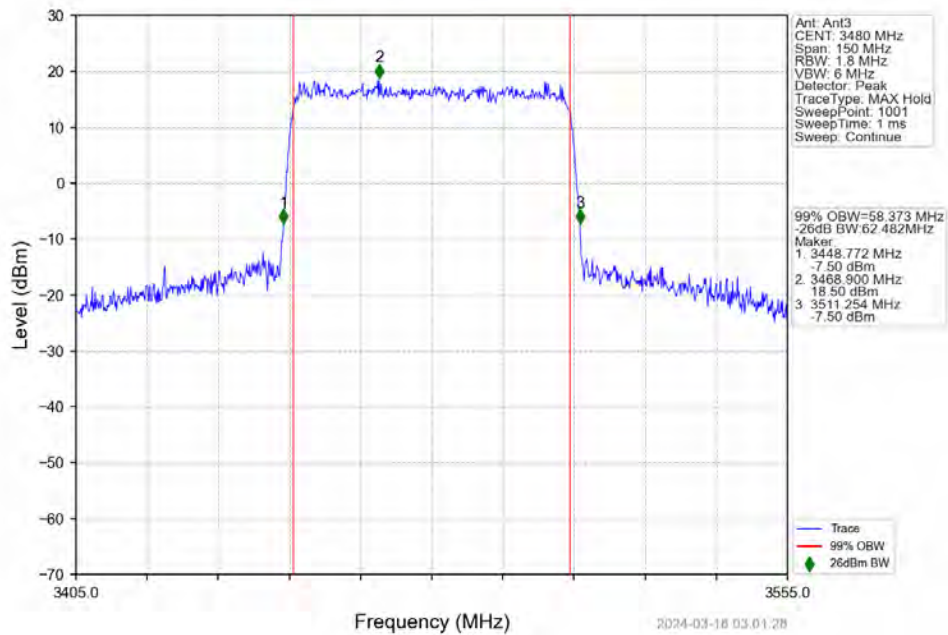
n78e 30kHz SISO NTN 60MHz DFT-s-OFDM 16 QAM 3500.01MHz Outer Full



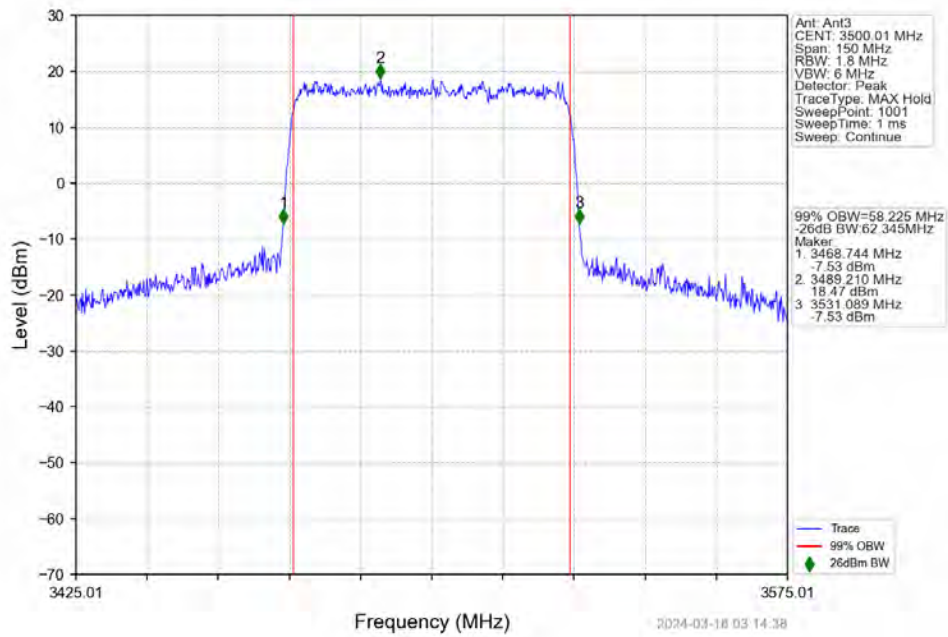
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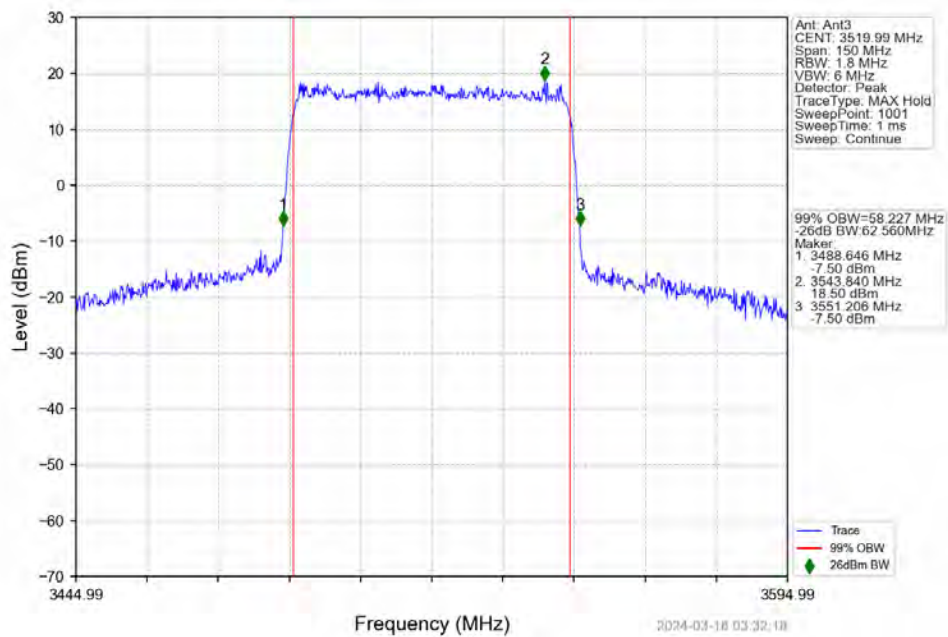
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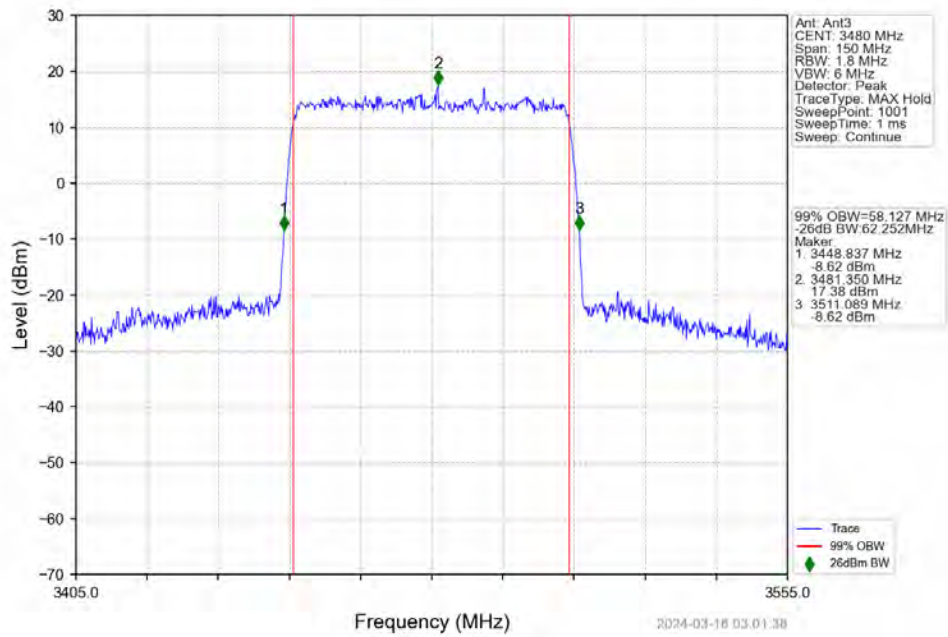
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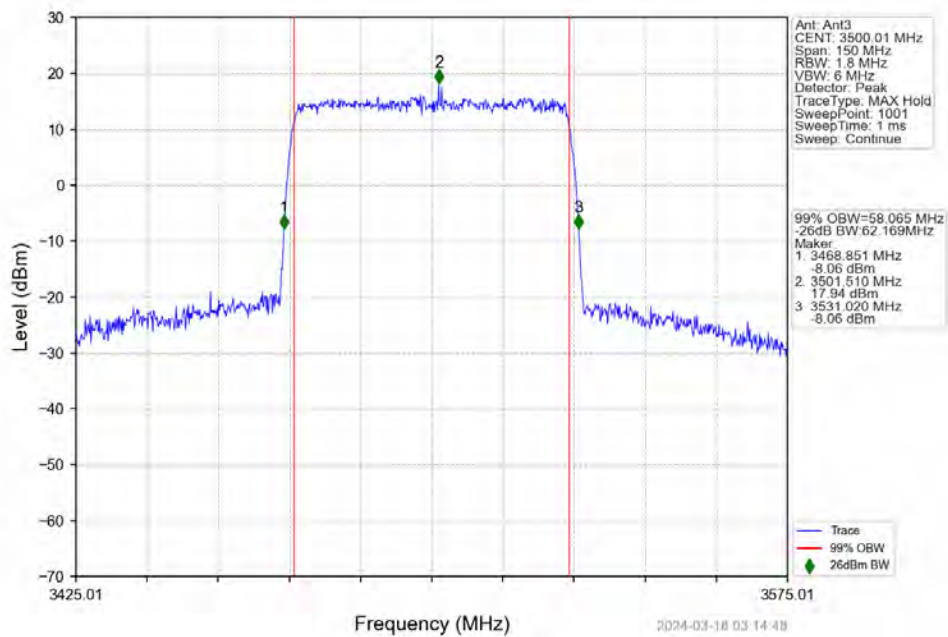
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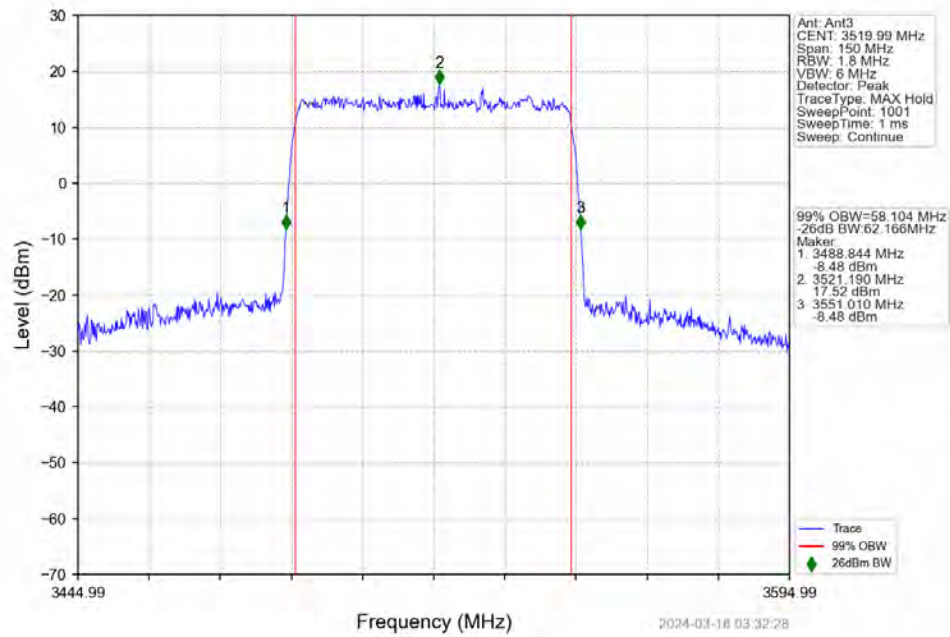
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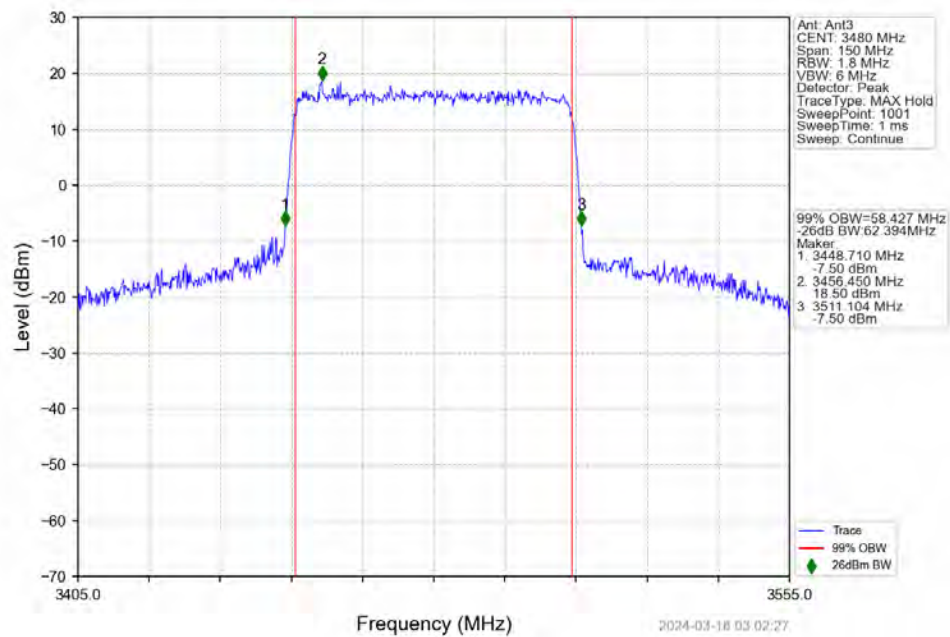
n78e 30kHz SISO NTN 60MHz DFT-s-OFDM 256 QAM 3500.01MHz Outer Full



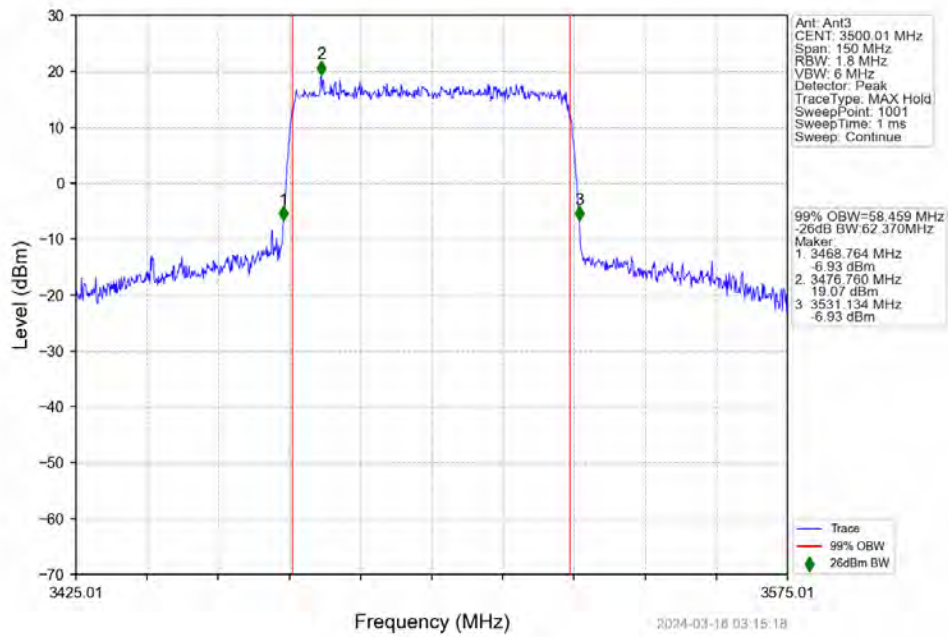
n78e 30kHz SISO NTN 60MHz DFT-s-OFDM 256 QAM 3519.99MHz Outer Full



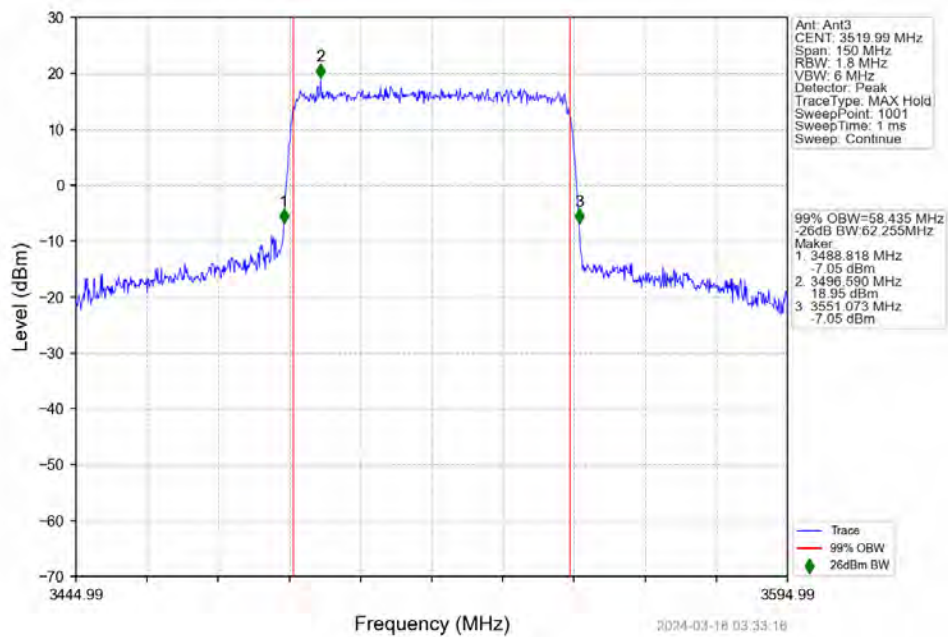
n78e 30kHz SISO NTN 60MHz CP-OFDM QPSK 3480MHz Outer Full



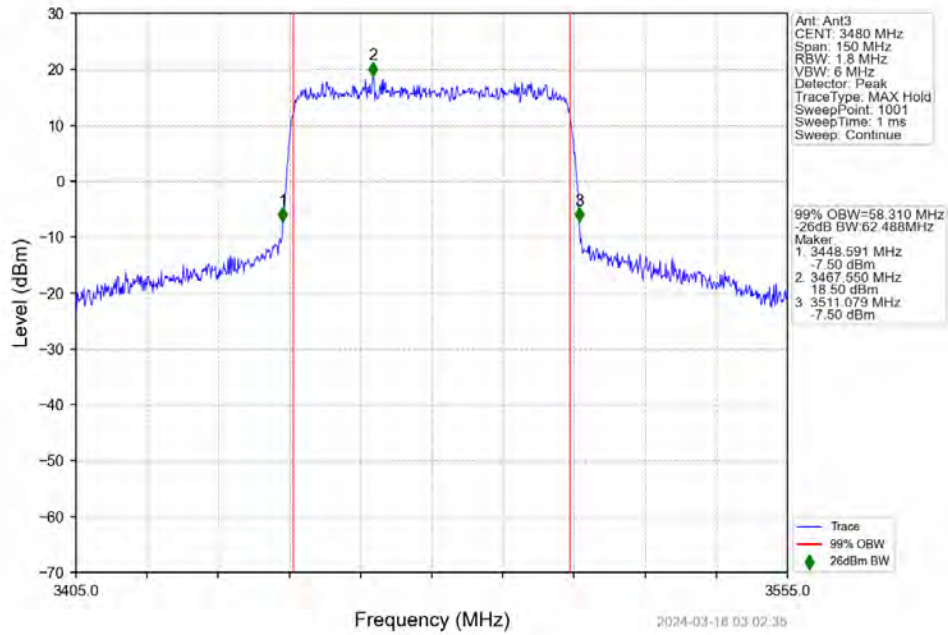
n78e 30kHz SISO NTN 60MHz CP-OFDM QPSK 3500.01MHz Outer Full



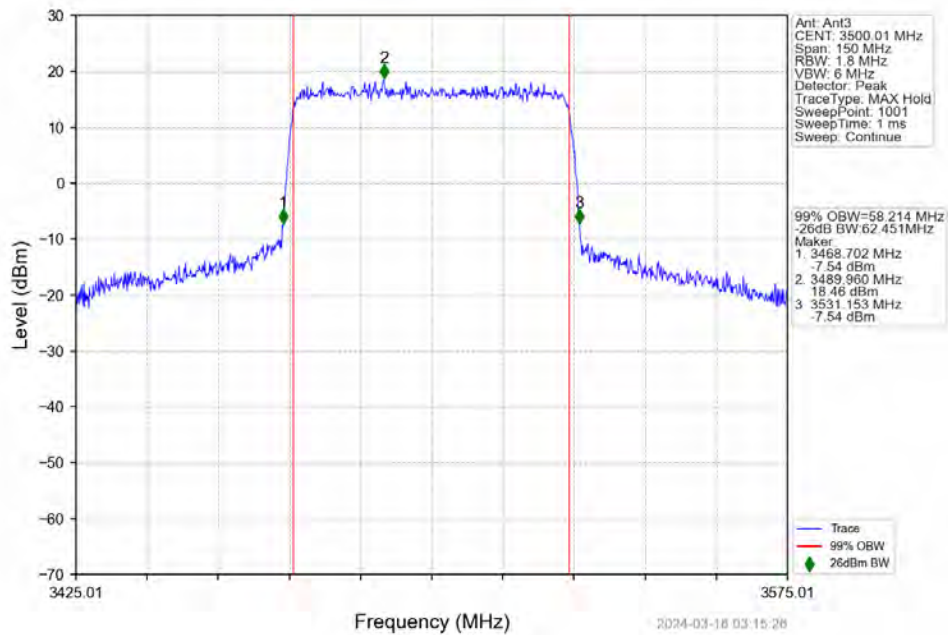
n78e 30kHz SISO NTN 60MHz CP-OFDM QPSK 3519.99MHz Outer Full



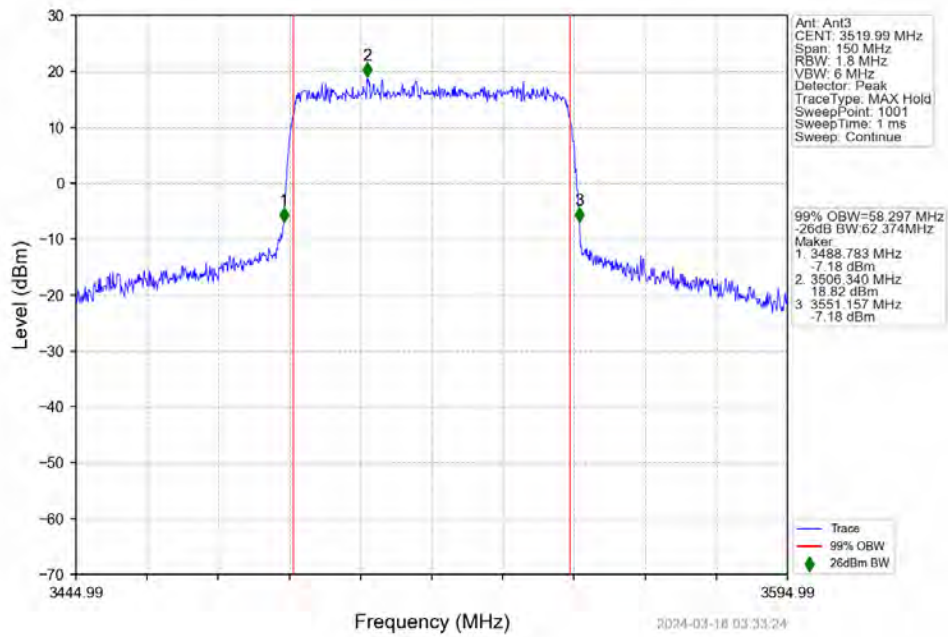
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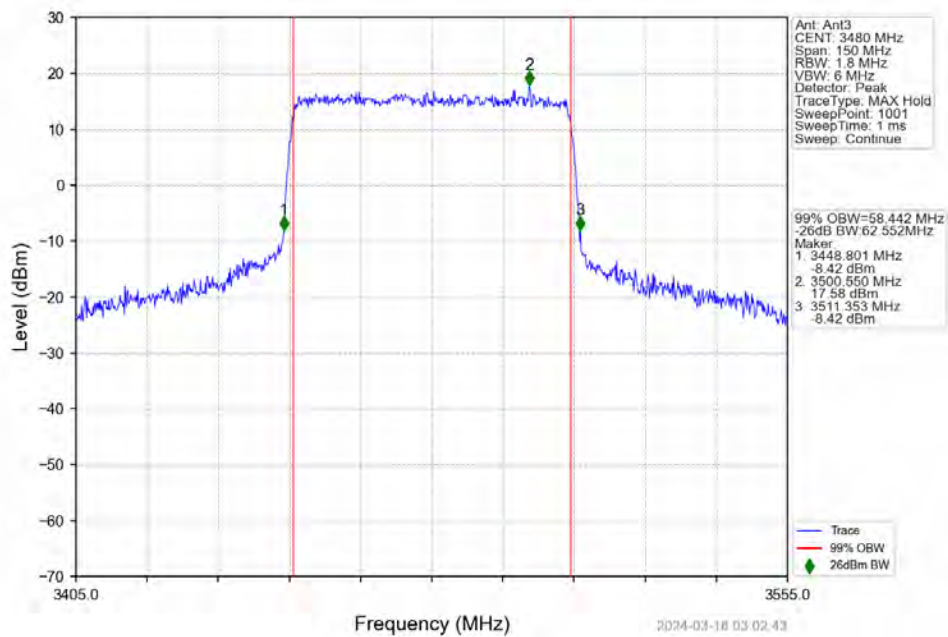
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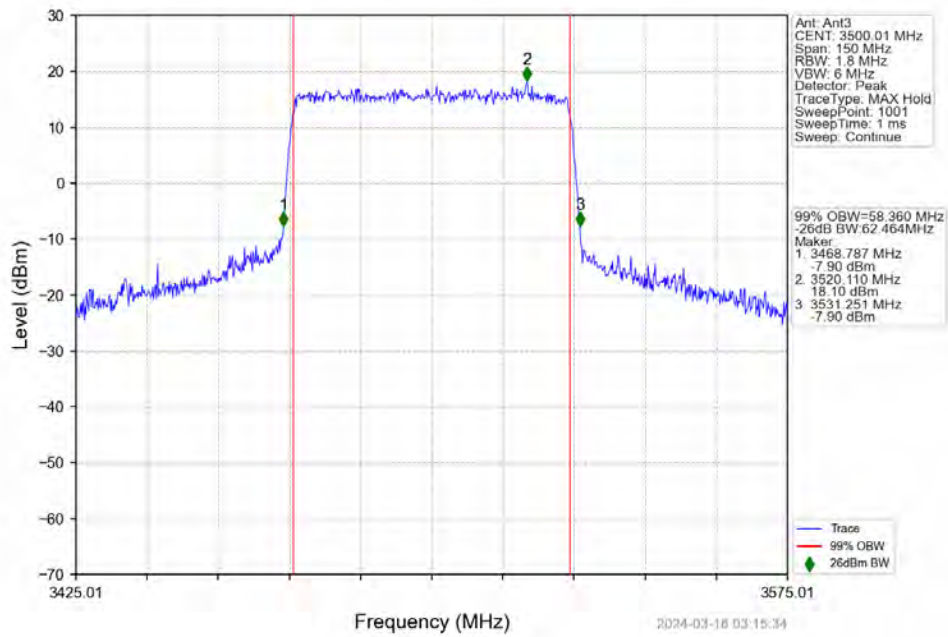
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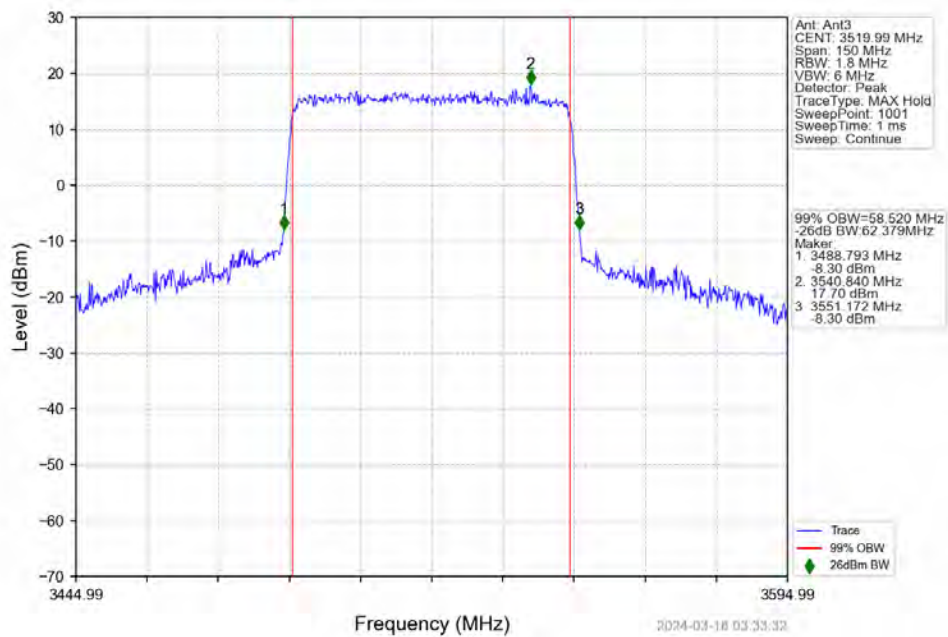
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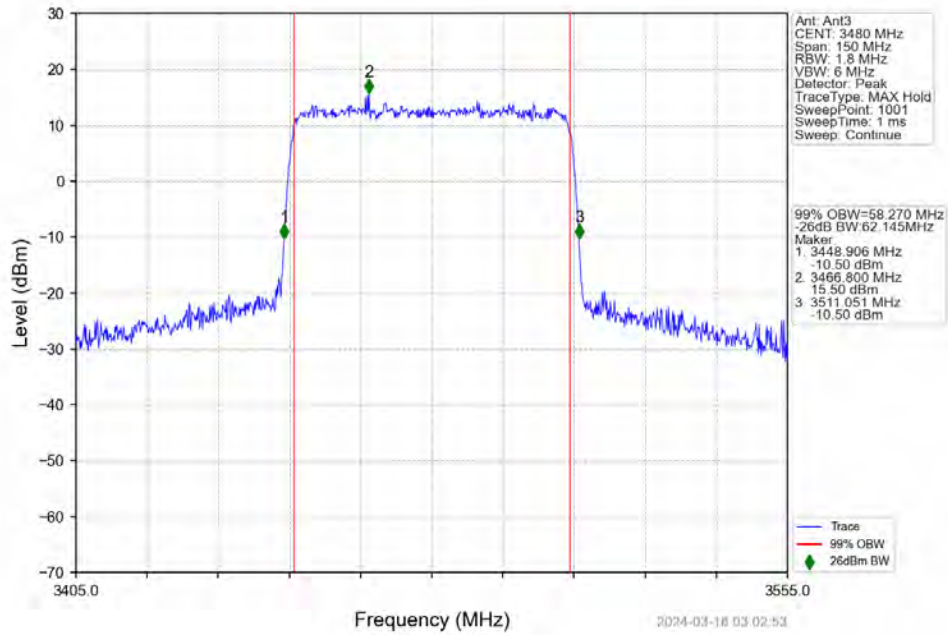
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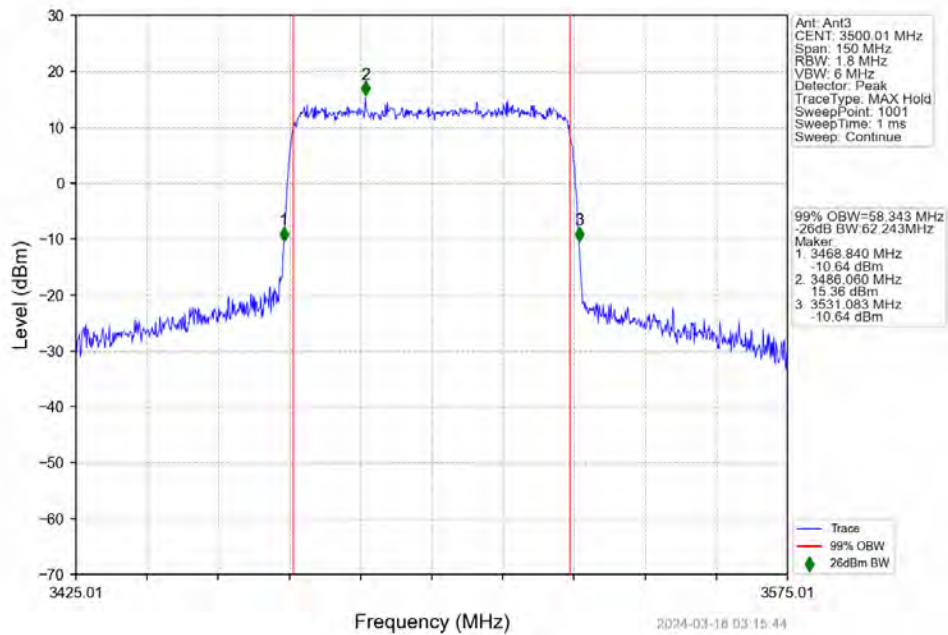
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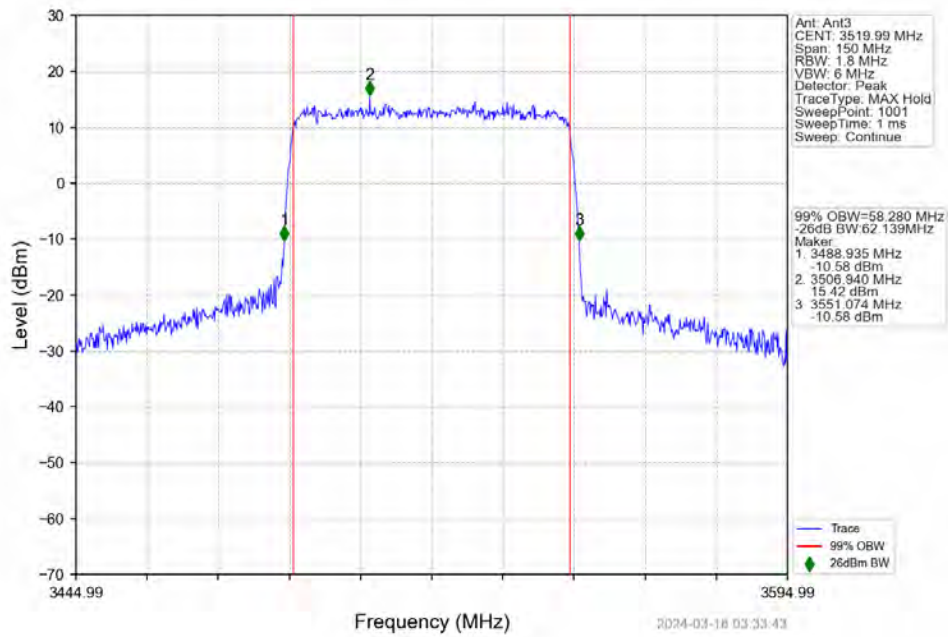
n78e 30kHz SISO NTN 60MHz CP-OFDM 256 QAM 3480MHz Outer Full



n78e 30kHz SISO NTN 60MHz CP-OFDM 256 QAM 3500.01MHz Outer Full



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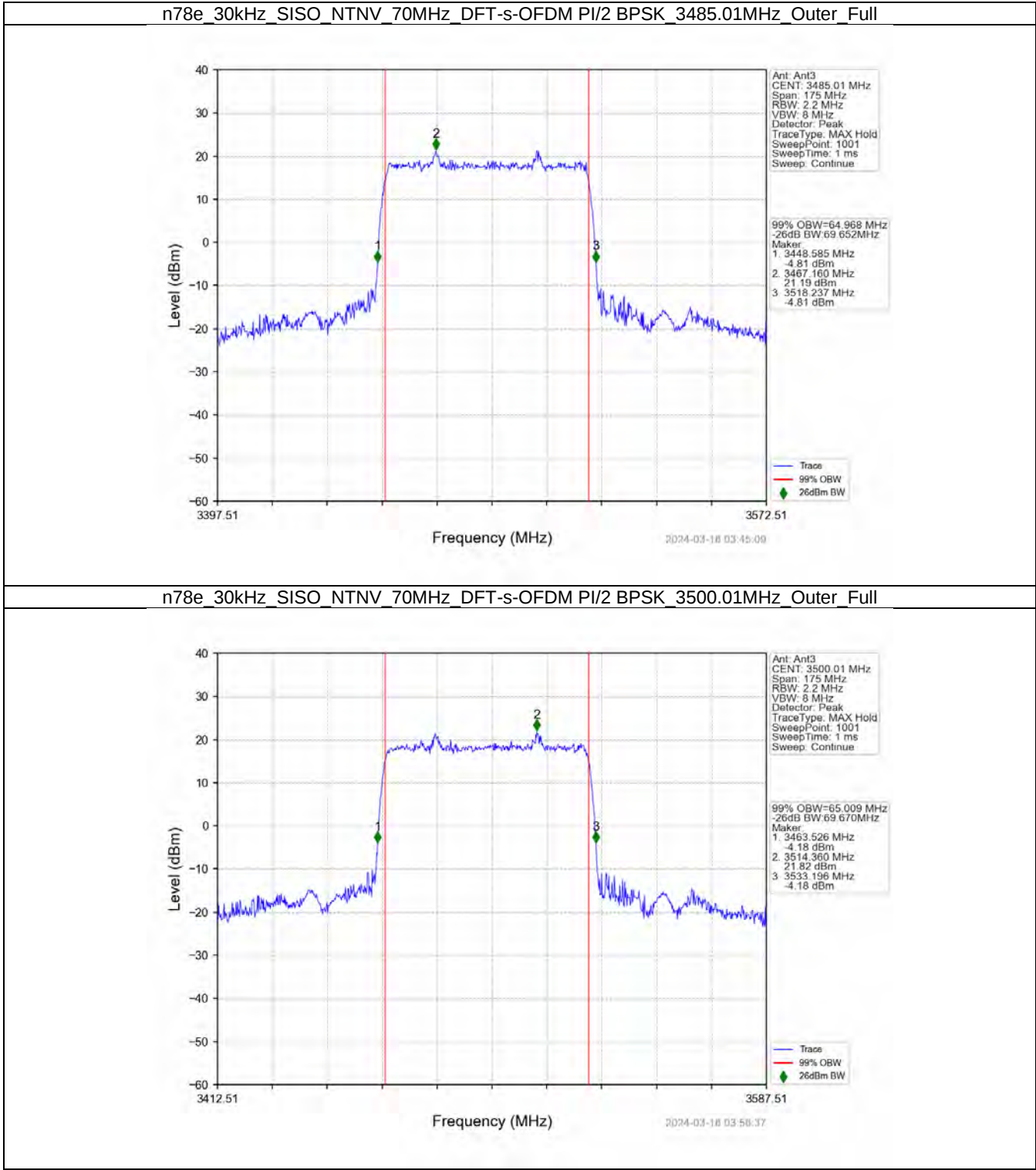


3.6 30k_SISO_70MHz_NTNV

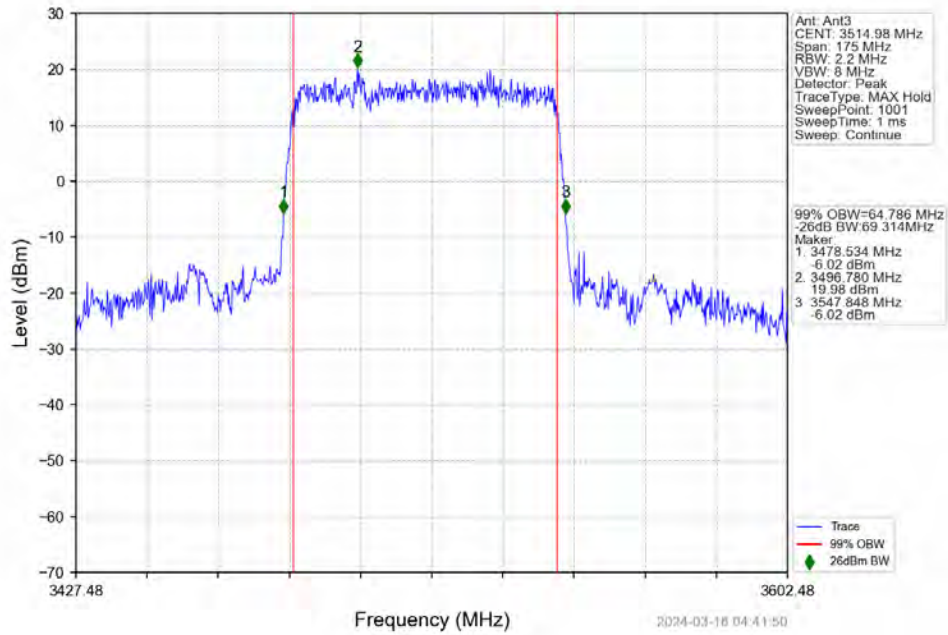
3.6.1 Test Result

5G NR n78e SCS=30kHz SISO 70MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3485.01	Outer_Full	64.97	69.65	/	Pass
	3500.01	Outer_Full	65.01	69.67	/	Pass
	3514.98	Outer_Full	64.79	69.31	/	Pass
DFT-s-OFDM QPSK	3485.01	Outer_Full	65.00	69.68	/	Pass
	3500.01	Outer_Full	65.08	69.77	/	Pass
	3514.98	Outer_Full	64.94	69.16	/	Pass
DFT-s-OFDM 16 QAM	3485.01	Outer_Full	65.15	69.53	/	Pass
	3500.01	Outer_Full	64.89	69.68	/	Pass
	3514.98	Outer_Full	64.77	69.69	/	Pass
DFT-s-OFDM 64 QAM	3485.01	Outer_Full	65.18	69.69	/	Pass
	3500.01	Outer_Full	65.04	69.57	/	Pass
	3514.98	Outer_Full	65.13	69.52	/	Pass
DFT-s-OFDM 256 QAM	3485.01	Outer_Full	64.78	69.63	/	Pass
	3500.01	Outer_Full	64.78	69.70	/	Pass
	3514.98	Outer_Full	64.79	69.02	/	Pass
CP-OFDM QPSK	3485.01	Outer_Full	68.39	73.98	/	Pass
	3500.01	Outer_Full	68.26	73.78	/	Pass
	3514.98	Outer_Full	68.07	83.15	/	Pass
CP-OFDM 16 QAM	3485.01	Outer_Full	68.33	78.05	/	Pass
	3500.01	Outer_Full	68.27	77.04	/	Pass
	3514.98	Outer_Full	67.75	75.65	/	Pass
CP-OFDM 64 QAM	3485.01	Outer_Full	68.36	82.12	/	Pass
	3500.01	Outer_Full	68.42	79.49	/	Pass
	3514.98	Outer_Full	68.29	72.33	/	Pass
CP-OFDM 256 QAM	3485.01	Outer_Full	68.07	72.74	/	Pass
	3500.01	Outer_Full	68.15	72.89	/	Pass
	3514.98	Outer_Full	68.05	72.66	/	Pass

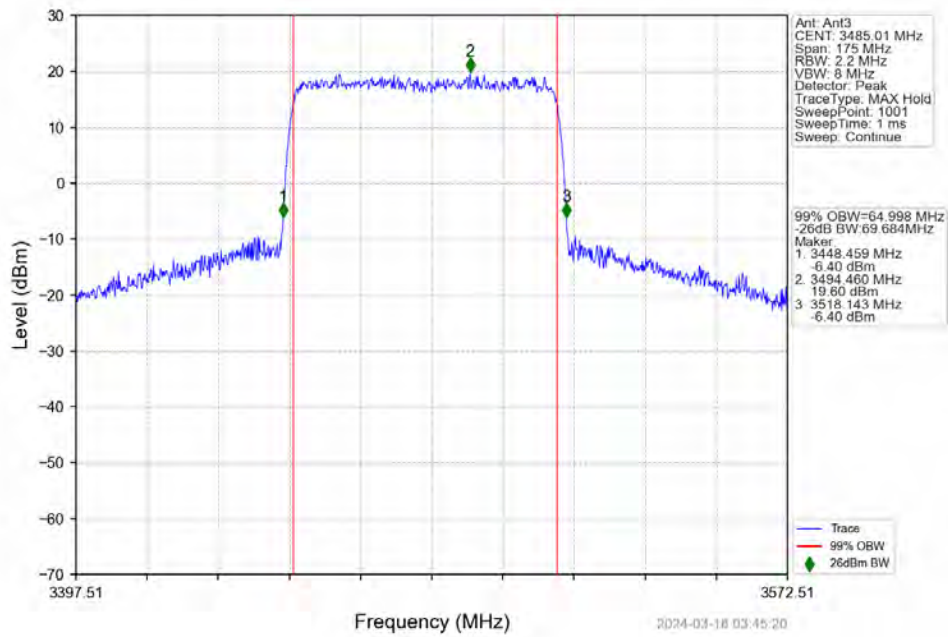
3.6.2 Test Graph



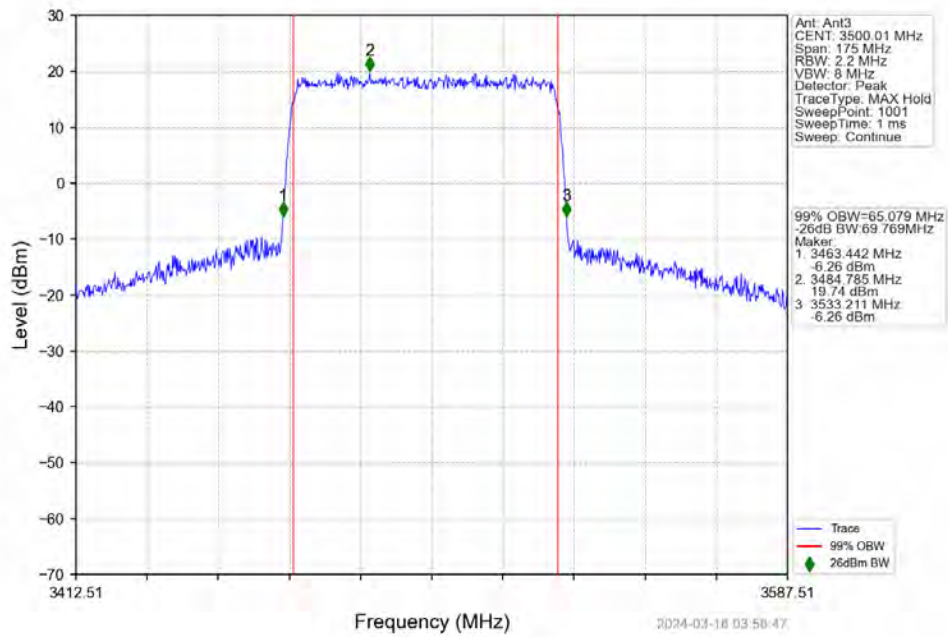
n78e 30kHz SISO NTNv 70MHz DFT-s-OFDM PI/2 BPSK 3514.98MHz Outer Full



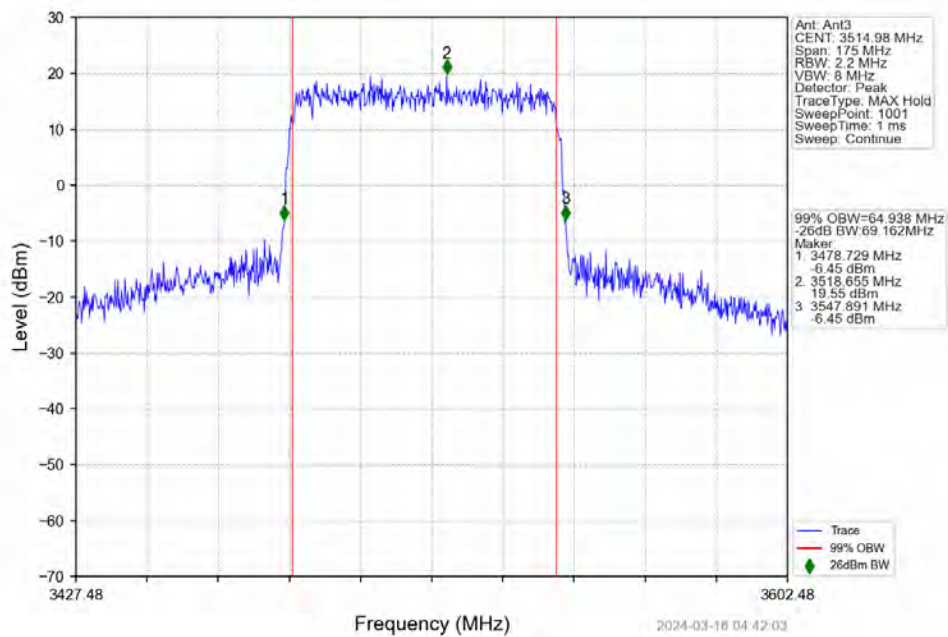
n78e 30kHz SISO NTNv 70MHz DFT-s-OFDM QPSK 3485.01MHz Outer Full



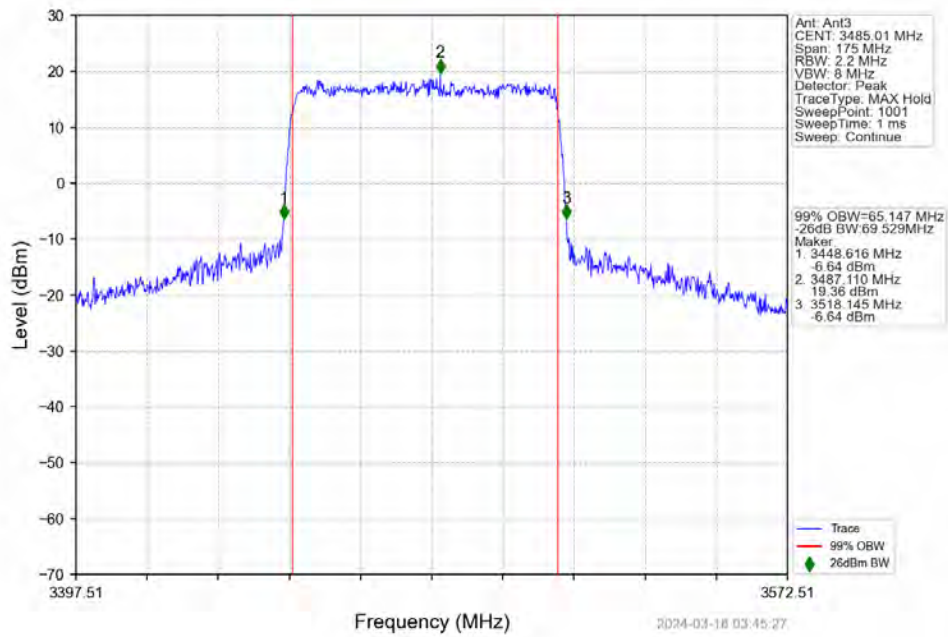
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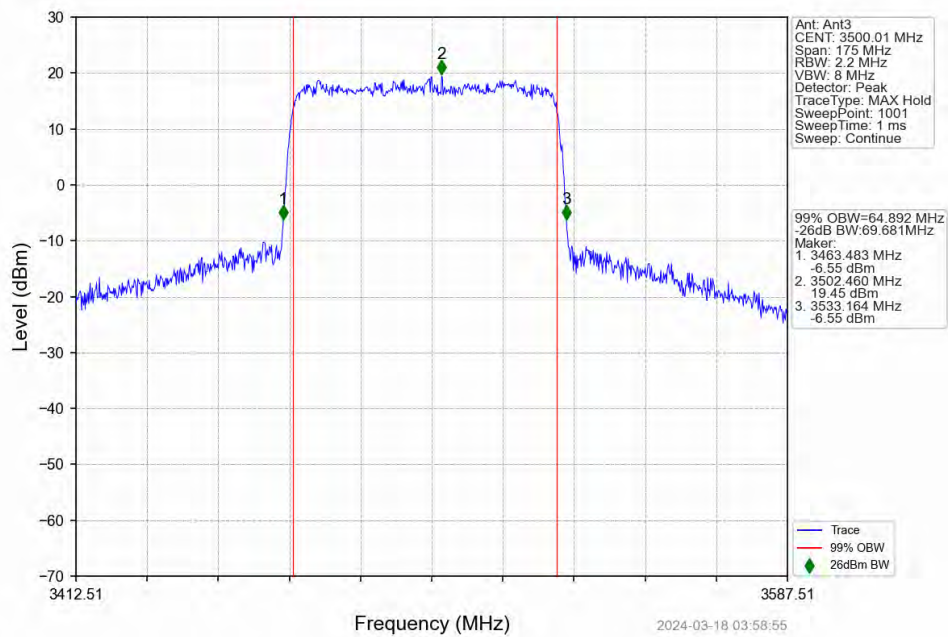
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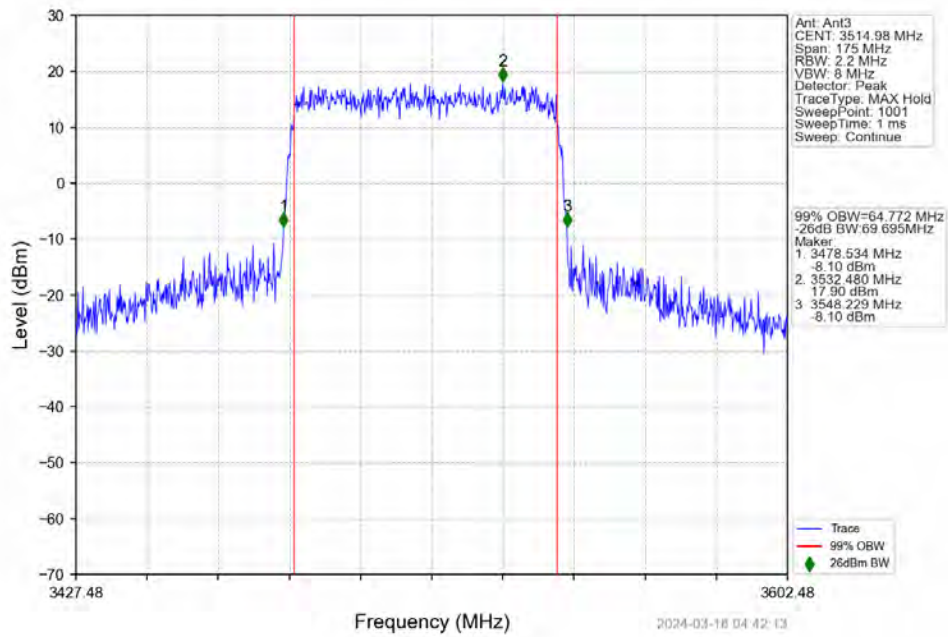
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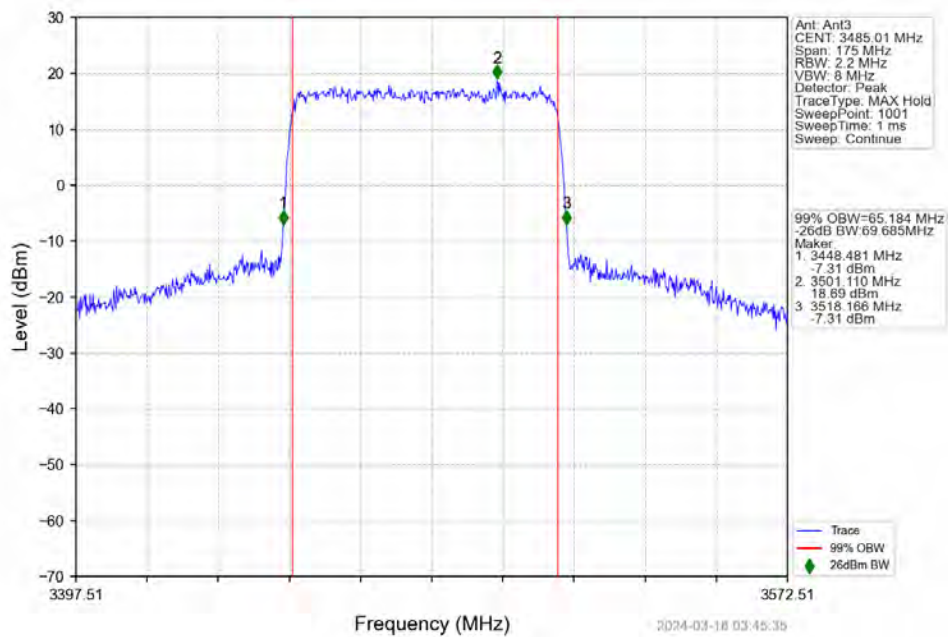
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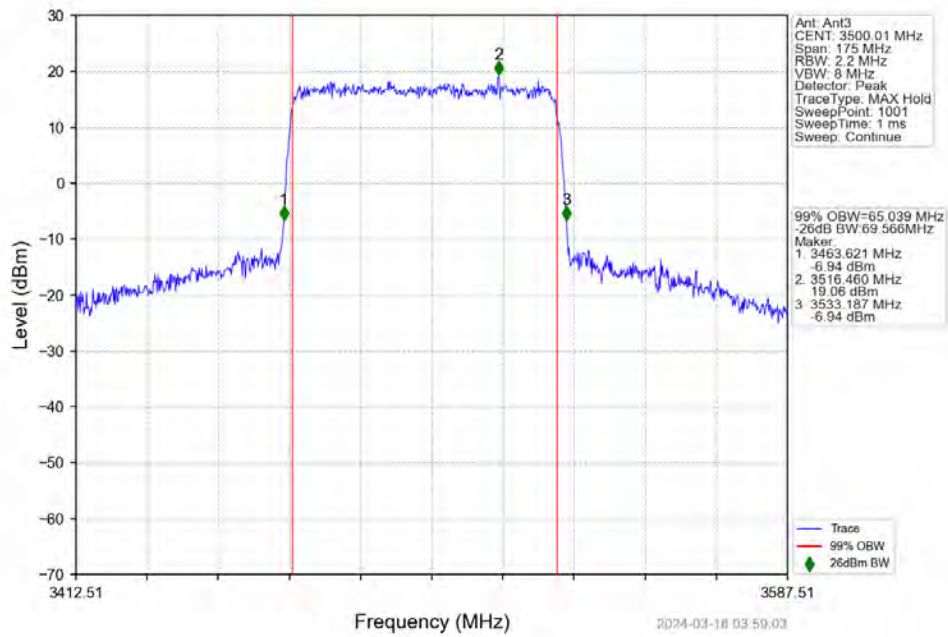
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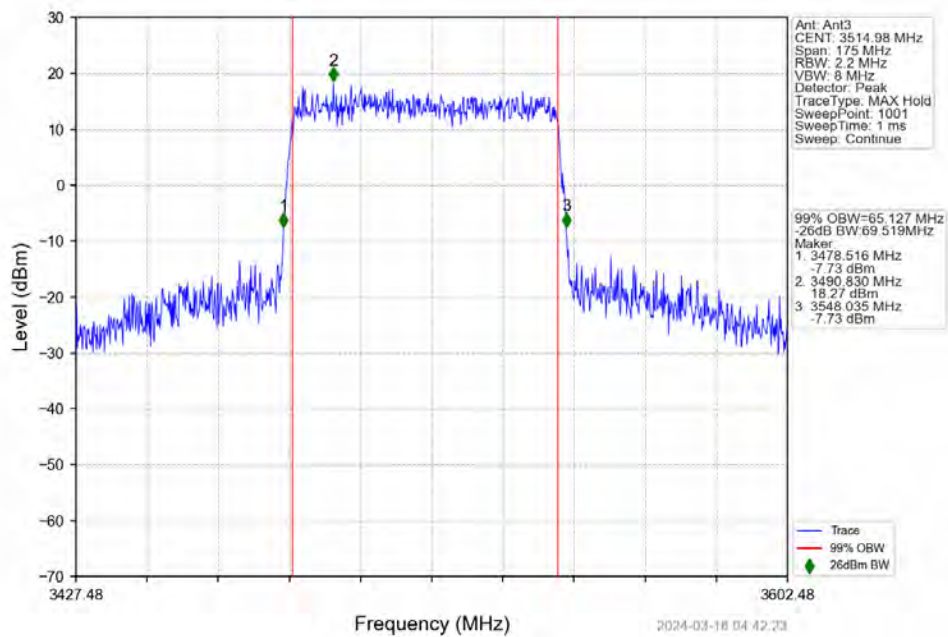
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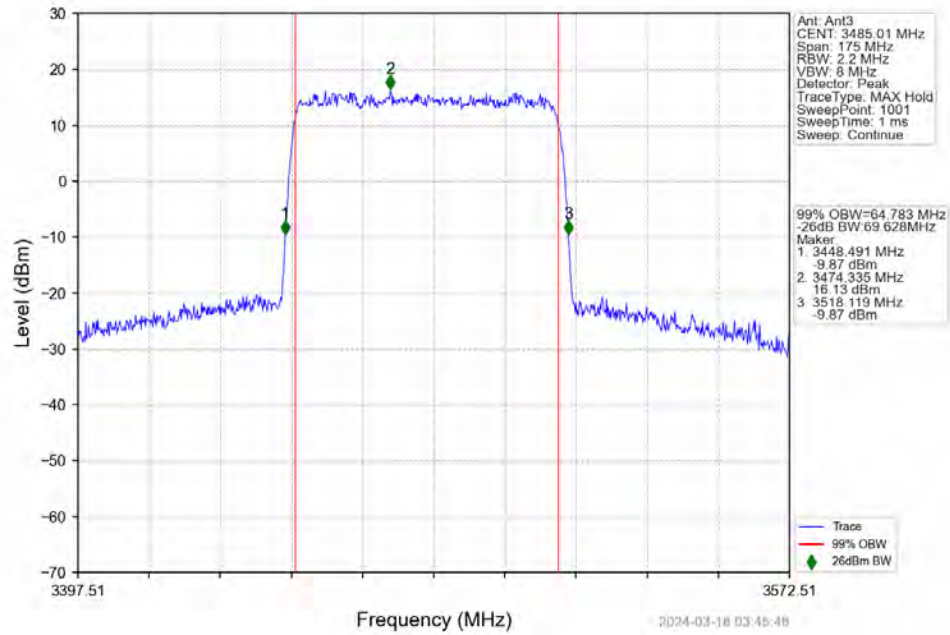
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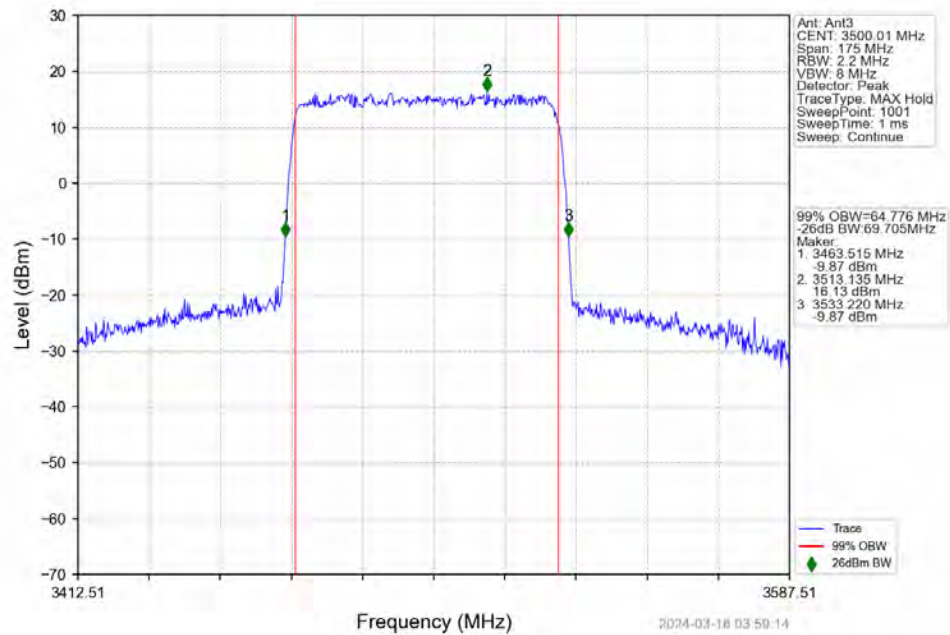
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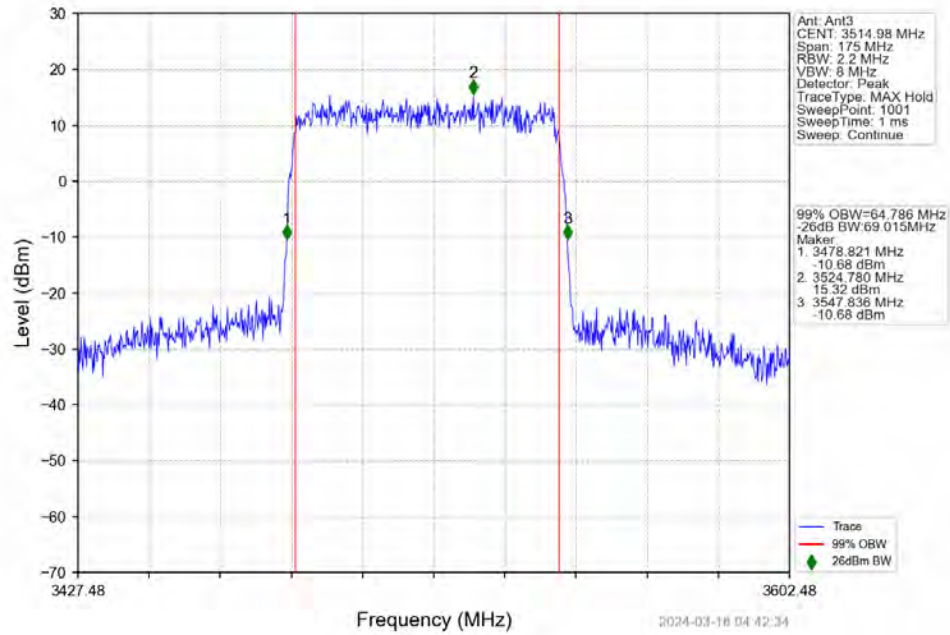
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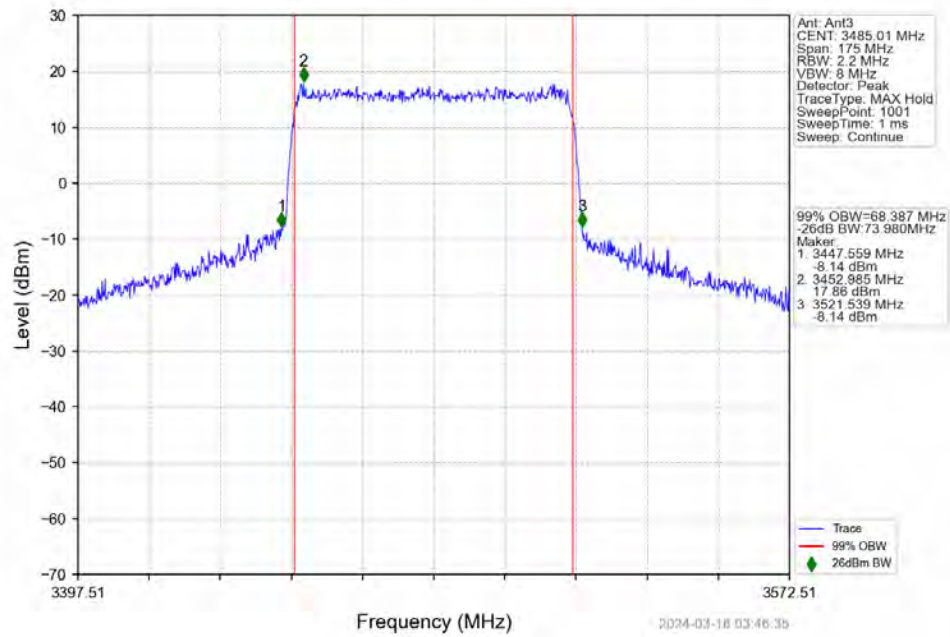
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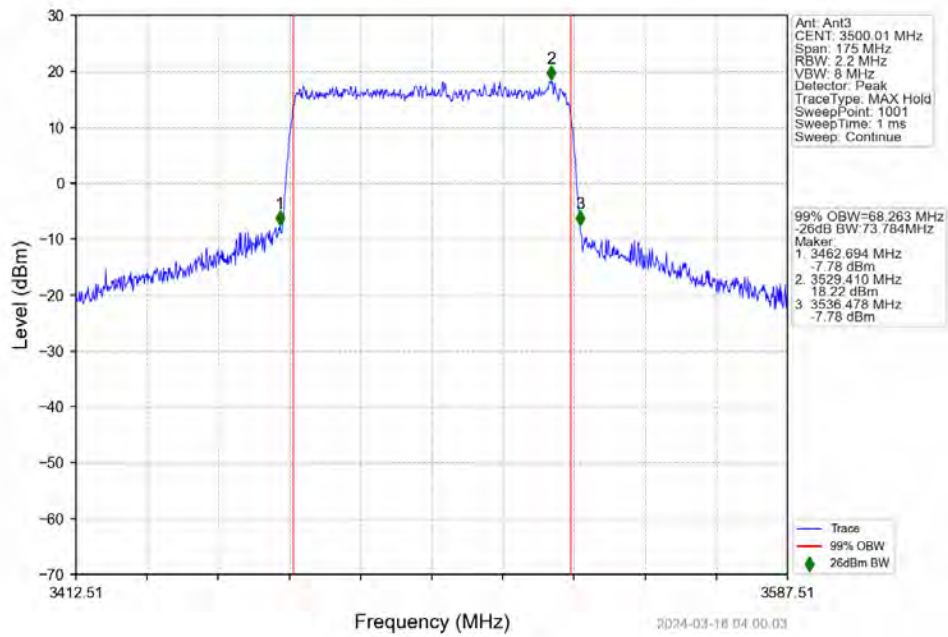
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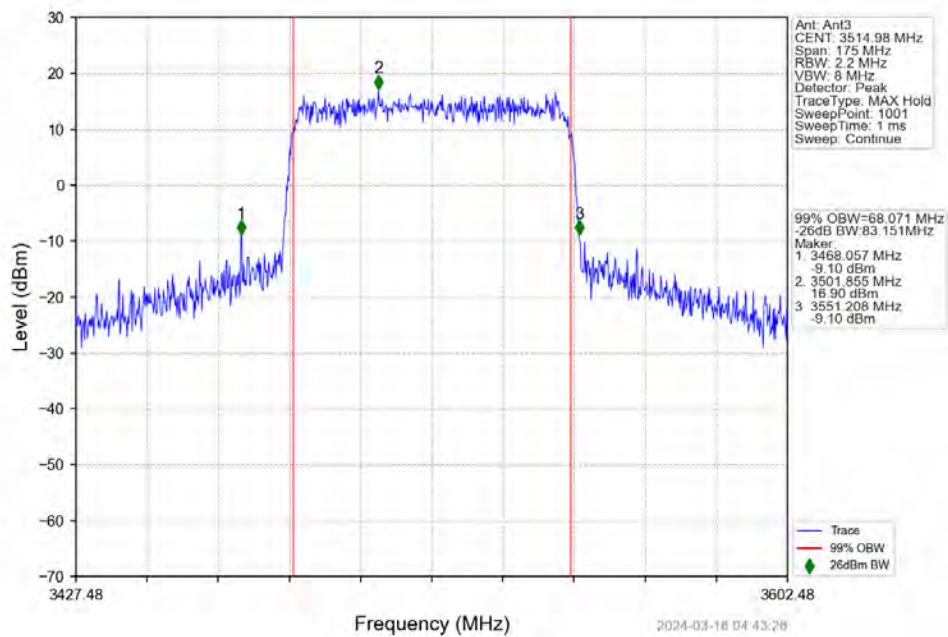
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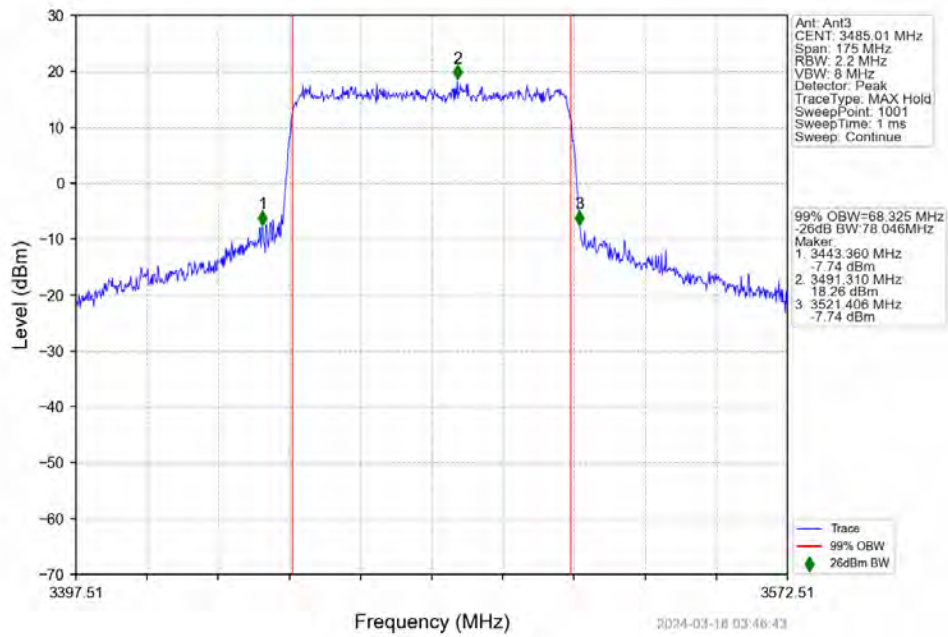
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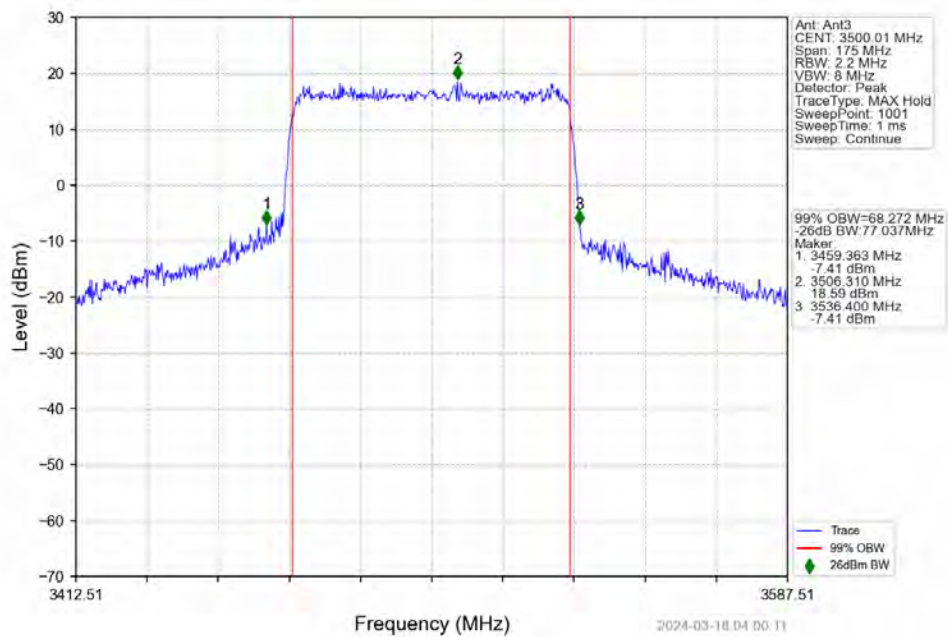
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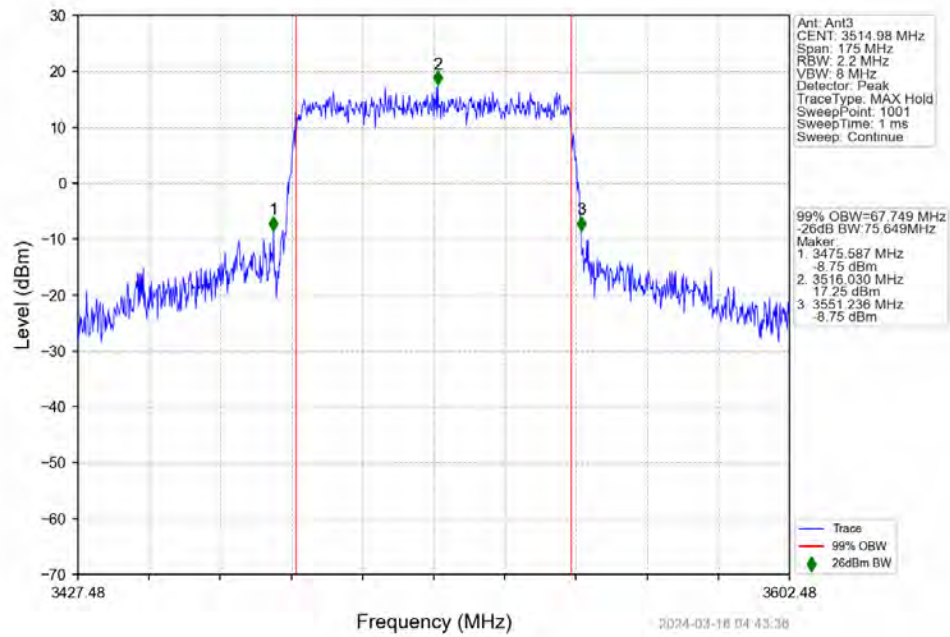
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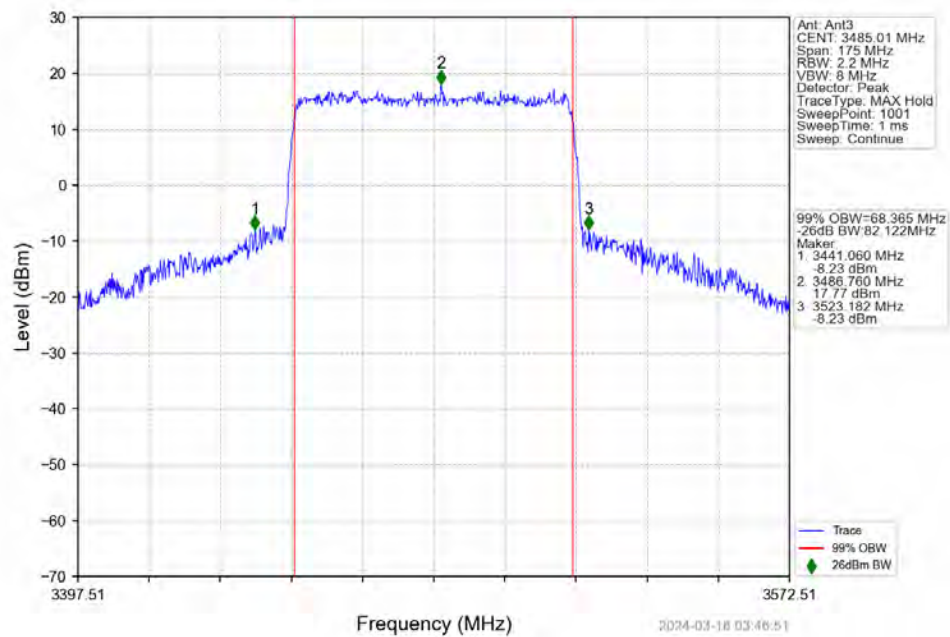
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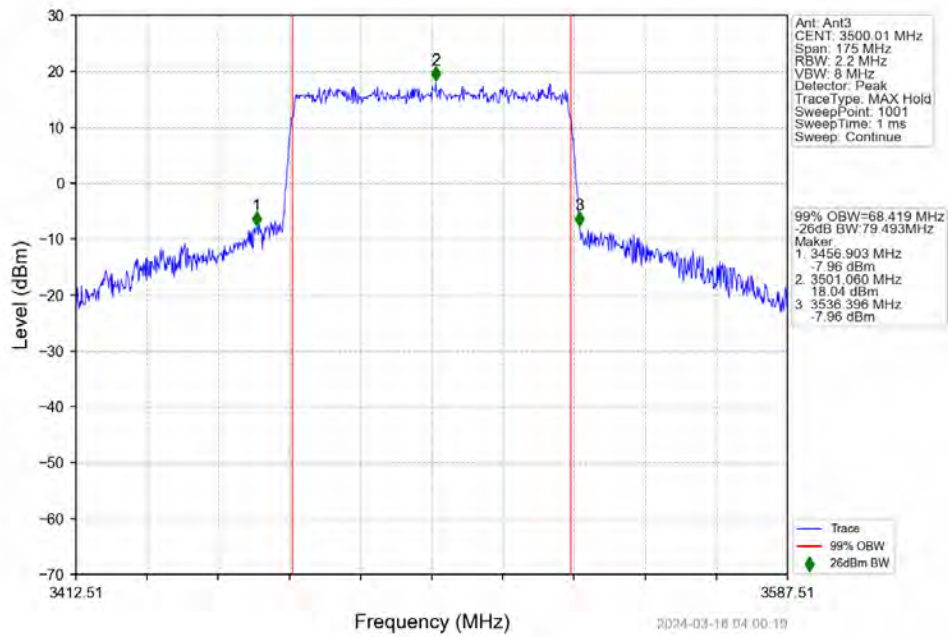
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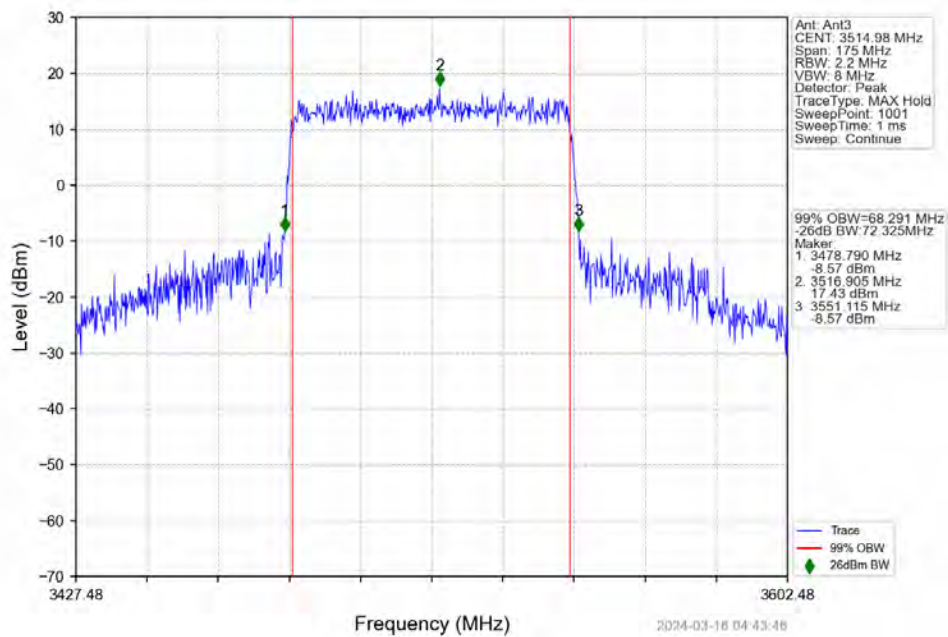
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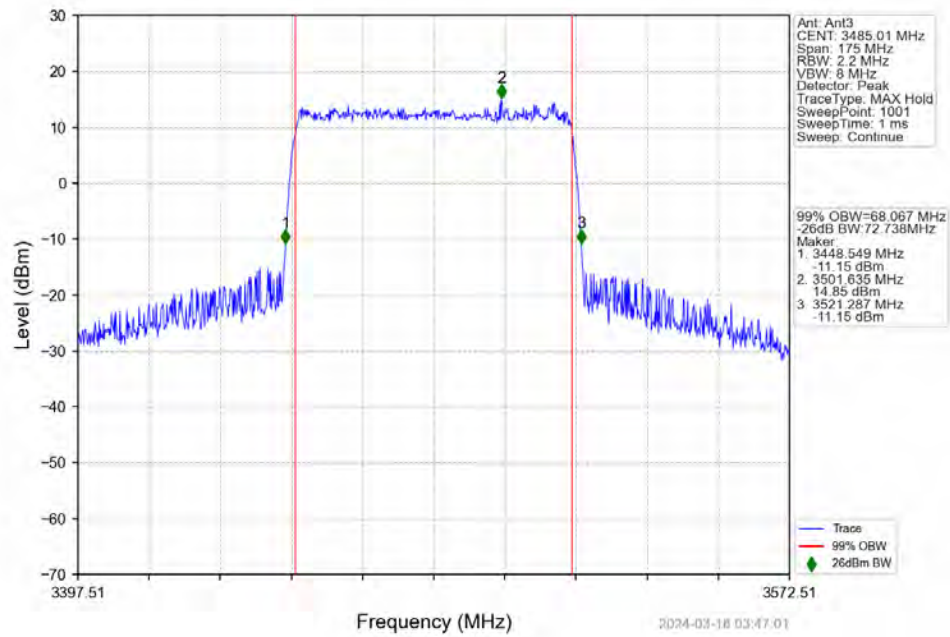
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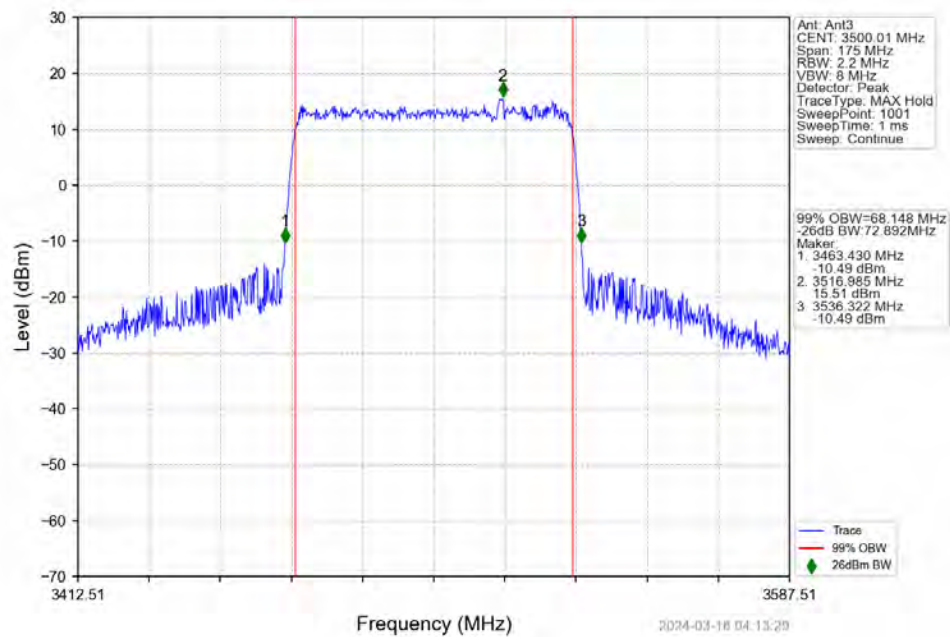
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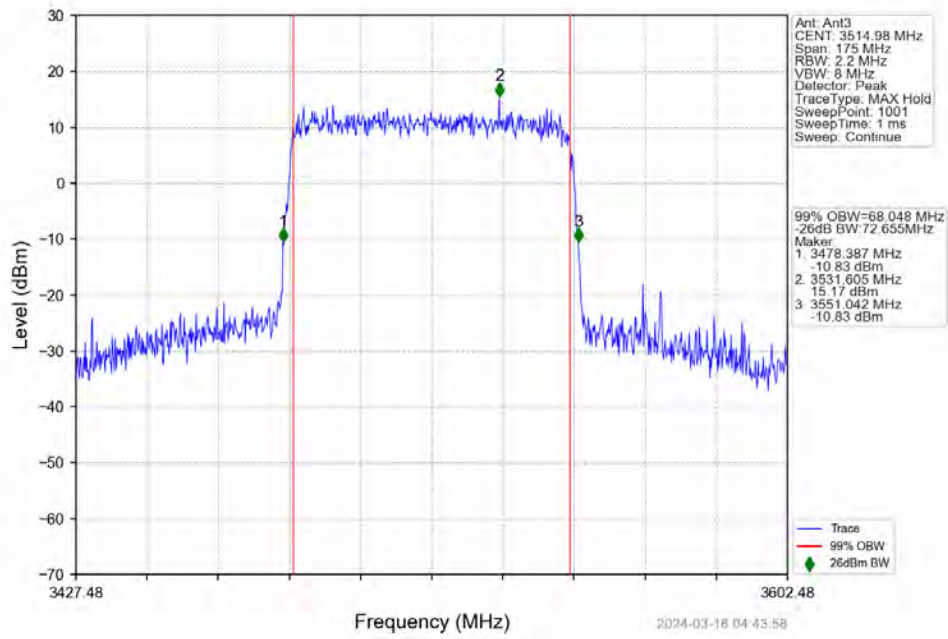
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n78e 30kHz SISO NTN 70MHz CP-OFDM 256 QAM 3500.01MHz Outer Full



n78e 30kHz SISO NTN 70MHz CP-OFDM 256 QAM 3514.98MHz Outer Full

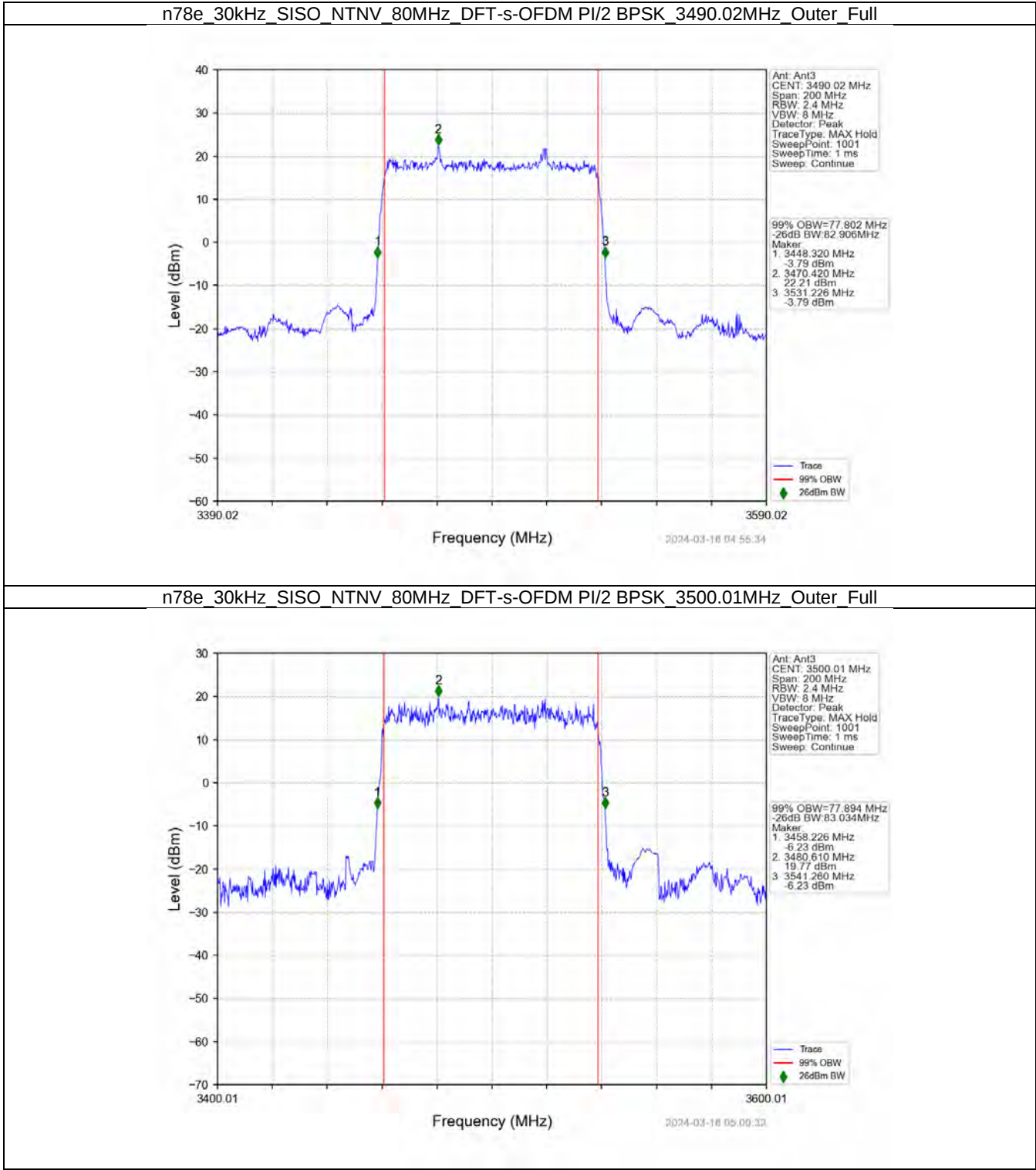


3.7 30k_SISO_80MHz_NTNV

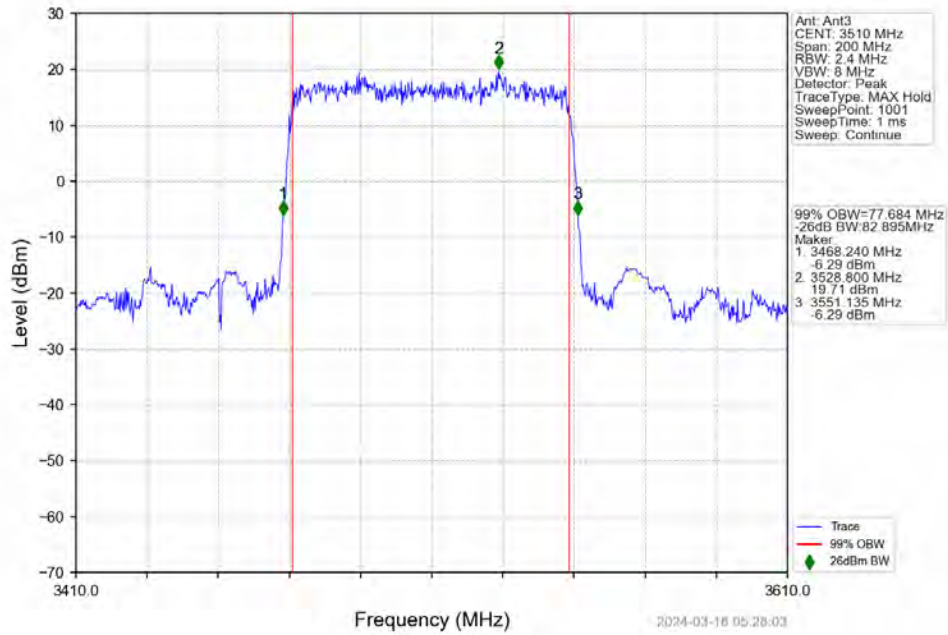
3.7.1 Test Result

5G NR n78e SCS=30kHz SISO 80MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3490.02	Outer_Full	77.80	82.91	/	Pass
	3500.01	Outer_Full	77.89	83.03	/	Pass
	3510	Outer_Full	77.68	82.89	/	Pass
DFT-s-OFDM QPSK	3490.02	Outer_Full	77.96	83.19	/	Pass
	3500.01	Outer_Full	77.61	83.05	/	Pass
	3510	Outer_Full	77.88	83.22	/	Pass
DFT-s-OFDM 16 QAM	3490.02	Outer_Full	77.95	83.22	/	Pass
	3500.01	Outer_Full	77.67	82.70	/	Pass
	3510	Outer_Full	77.56	82.67	/	Pass
DFT-s-OFDM 64 QAM	3490.02	Outer_Full	77.79	82.89	/	Pass
	3500.01	Outer_Full	77.50	82.98	/	Pass
	3510	Outer_Full	77.70	82.84	/	Pass
DFT-s-OFDM 256 QAM	3490.02	Outer_Full	77.73	82.98	/	Pass
	3500.01	Outer_Full	77.93	83.02	/	Pass
	3510	Outer_Full	77.35	82.53	/	Pass
CP-OFDM QPSK	3490.02	Outer_Full	78.22	83.63	/	Pass
	3500.01	Outer_Full	77.90	82.96	/	Pass
	3510	Outer_Full	78.07	83.02	/	Pass
CP-OFDM 16 QAM	3490.02	Outer_Full	78.23	83.67	/	Pass
	3500.01	Outer_Full	78.27	83.44	/	Pass
	3510	Outer_Full	77.86	83.33	/	Pass
CP-OFDM 64 QAM	3490.02	Outer_Full	78.16	83.51	/	Pass
	3500.01	Outer_Full	77.91	82.97	/	Pass
	3510	Outer_Full	78.09	82.97	/	Pass
CP-OFDM 256 QAM	3490.02	Outer_Full	78.04	83.44	/	Pass
	3500.01	Outer_Full	77.84	82.80	/	Pass
	3510	Outer_Full	77.91	83.11	/	Pass

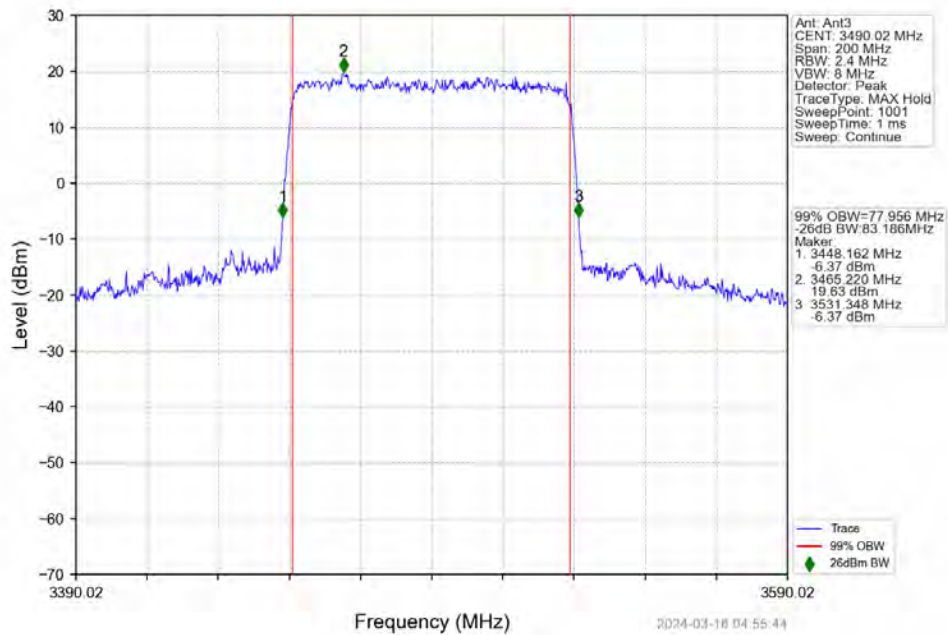
3.7.2 Test Graph



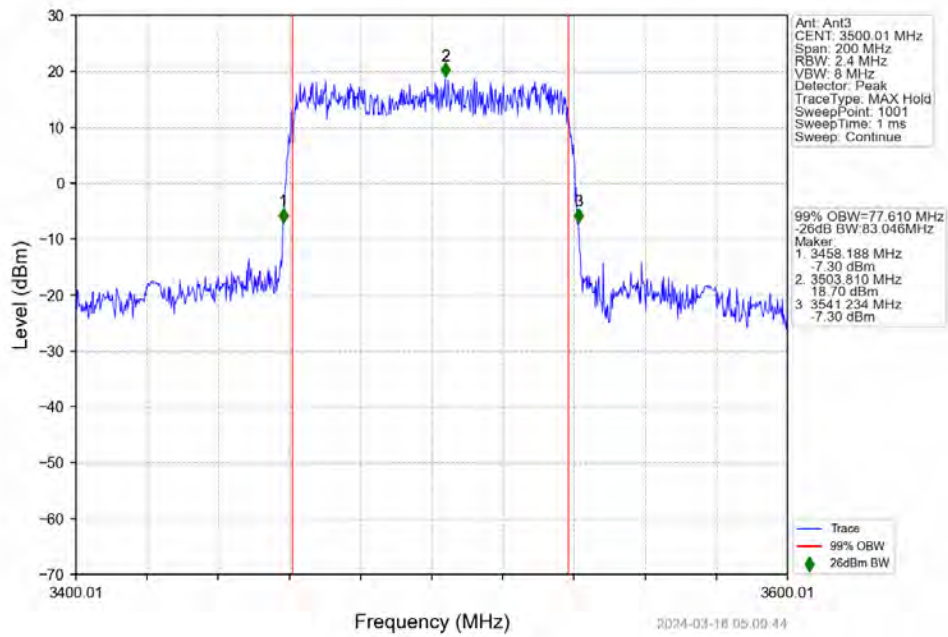
n78e 30kHz SISO NTN 80MHz DFT-s-OFDM PI/2 BPSK 3510MHz Outer Full



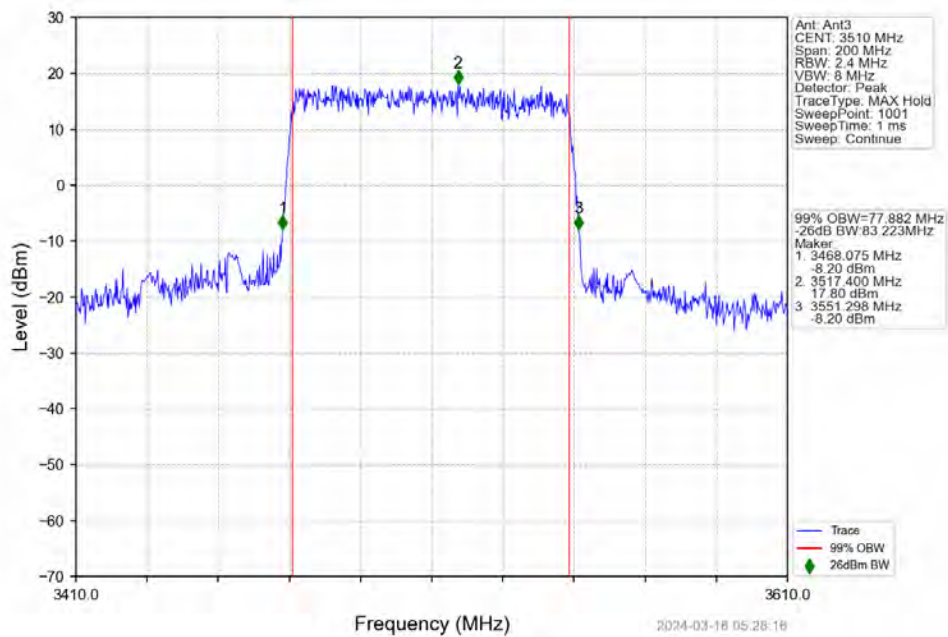
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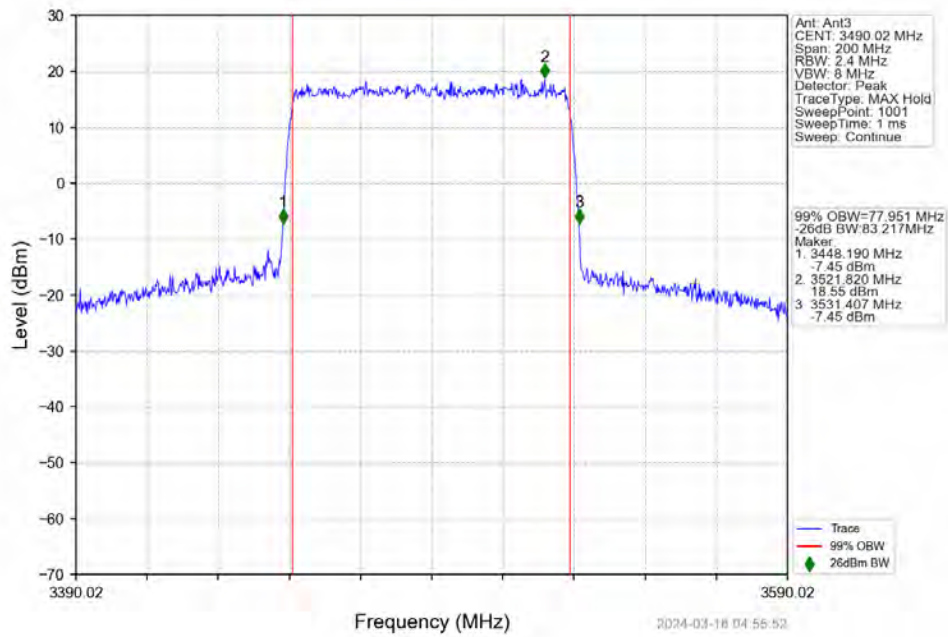
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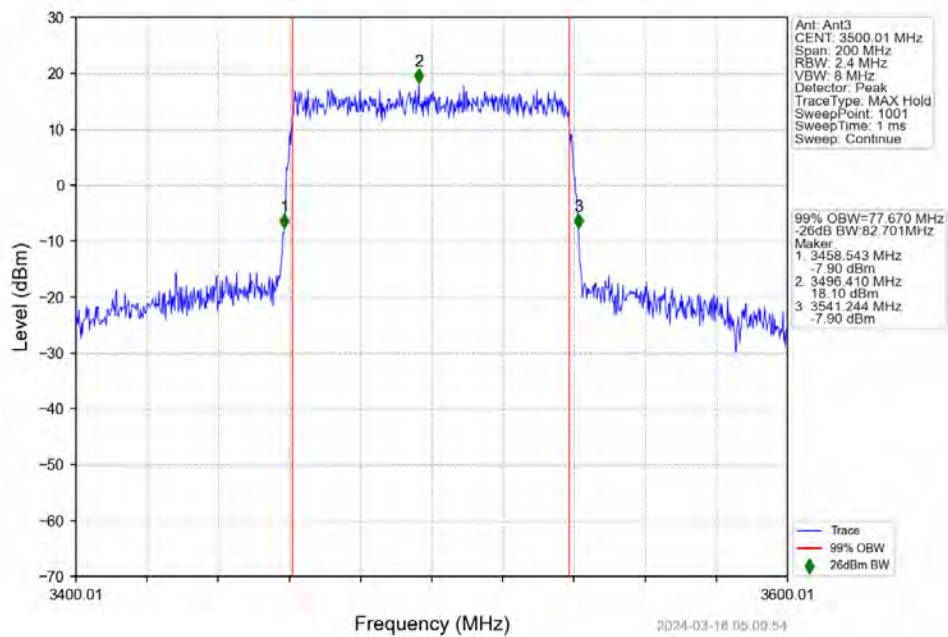
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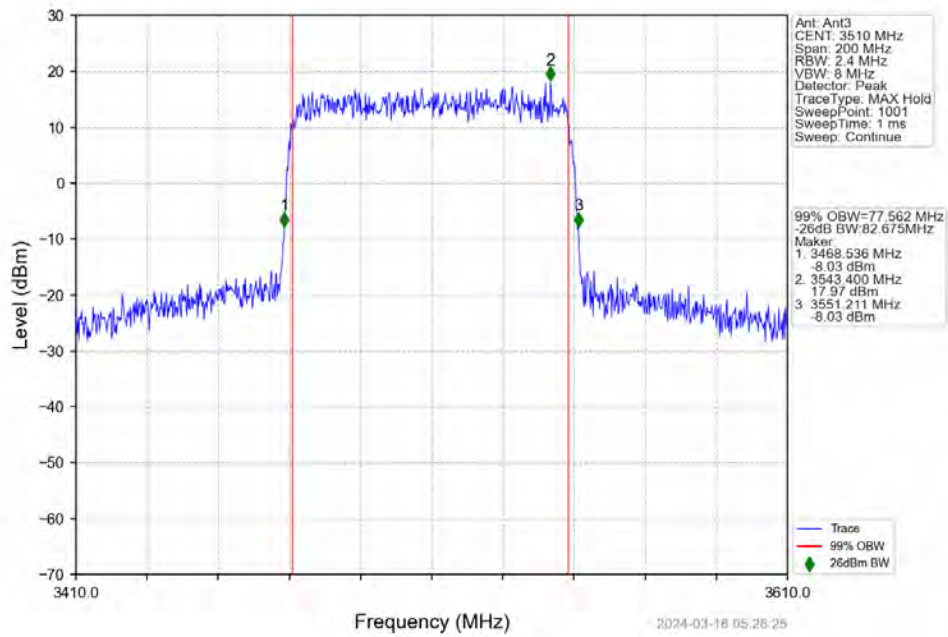
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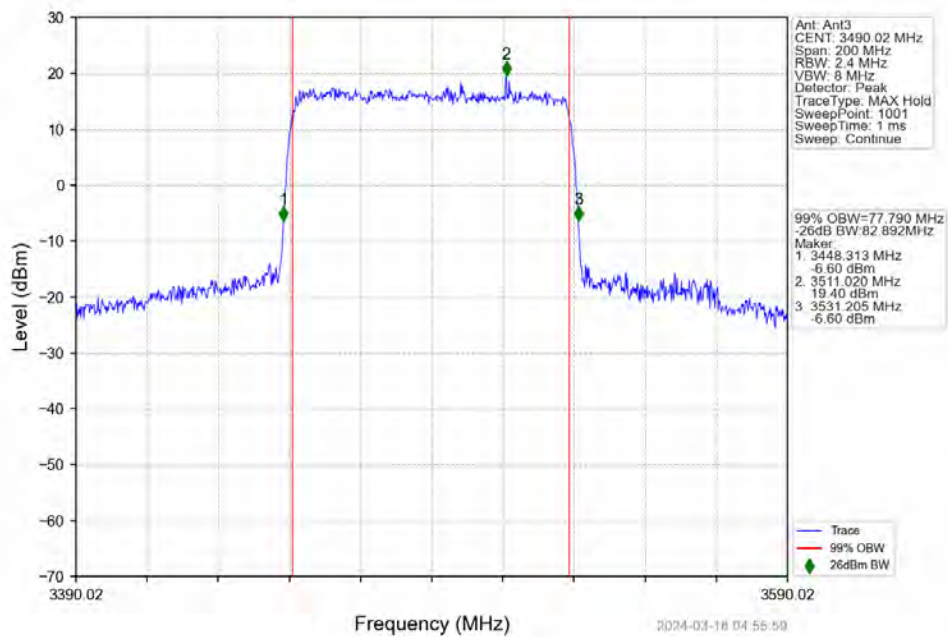
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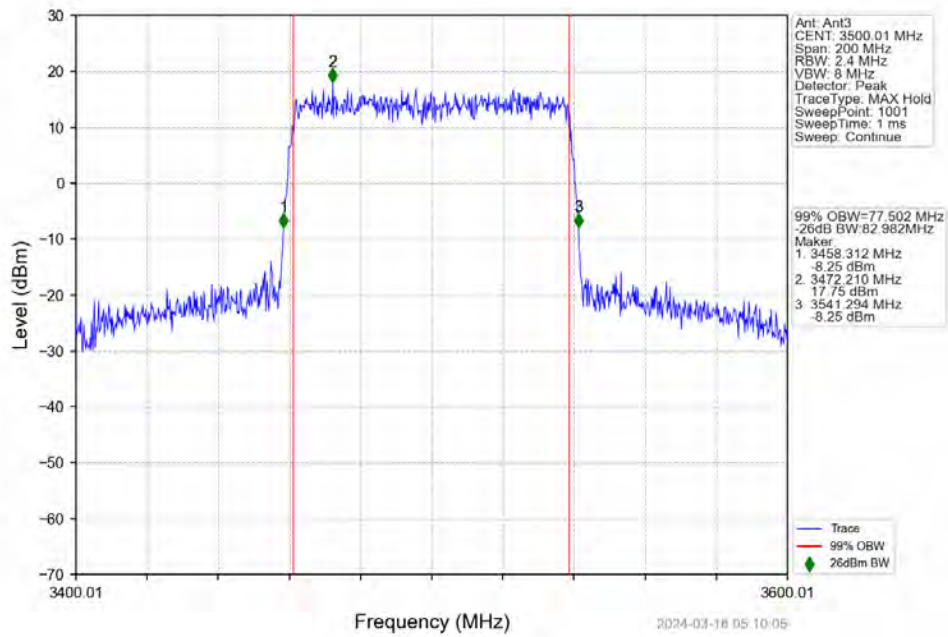
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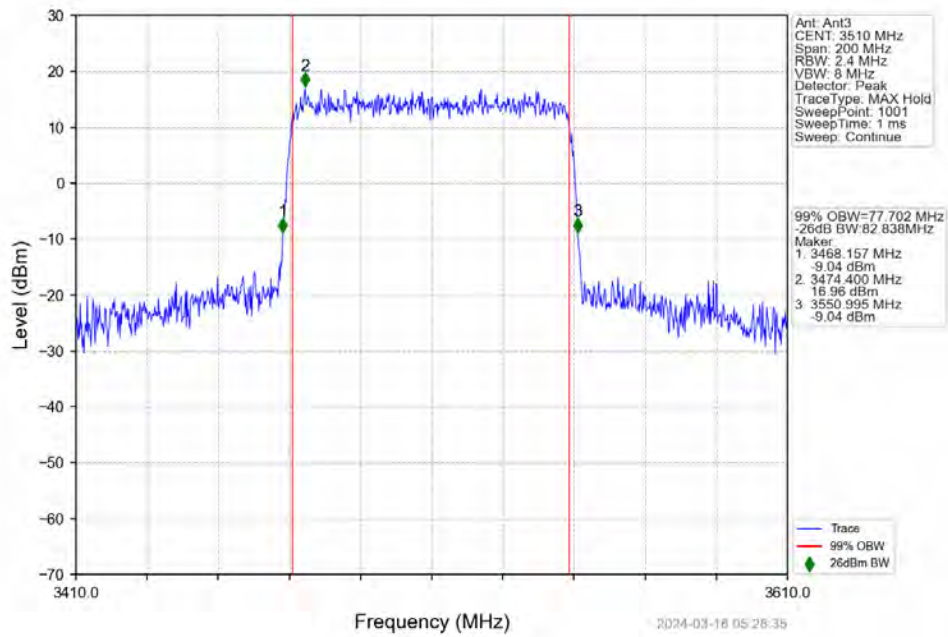
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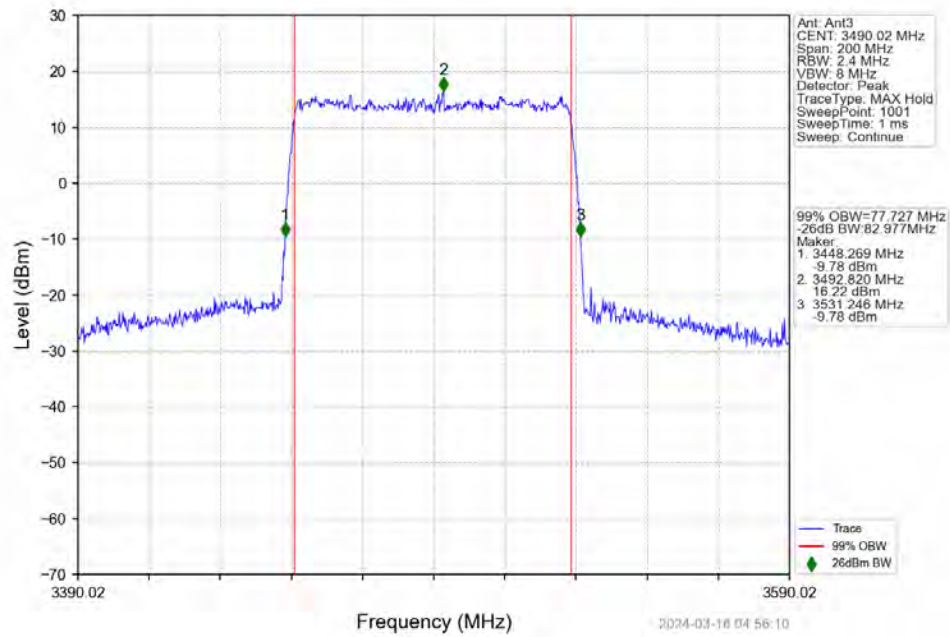
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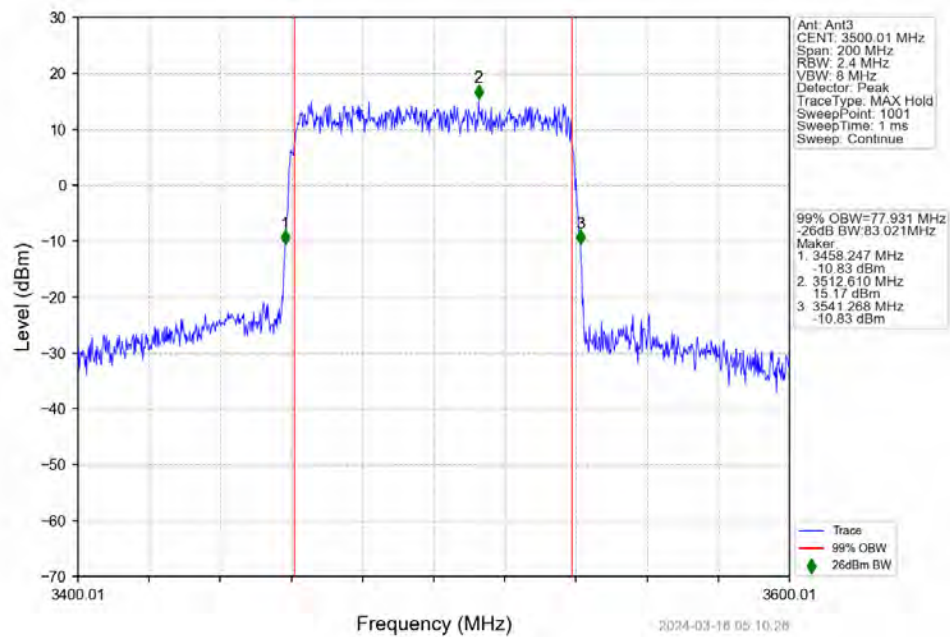
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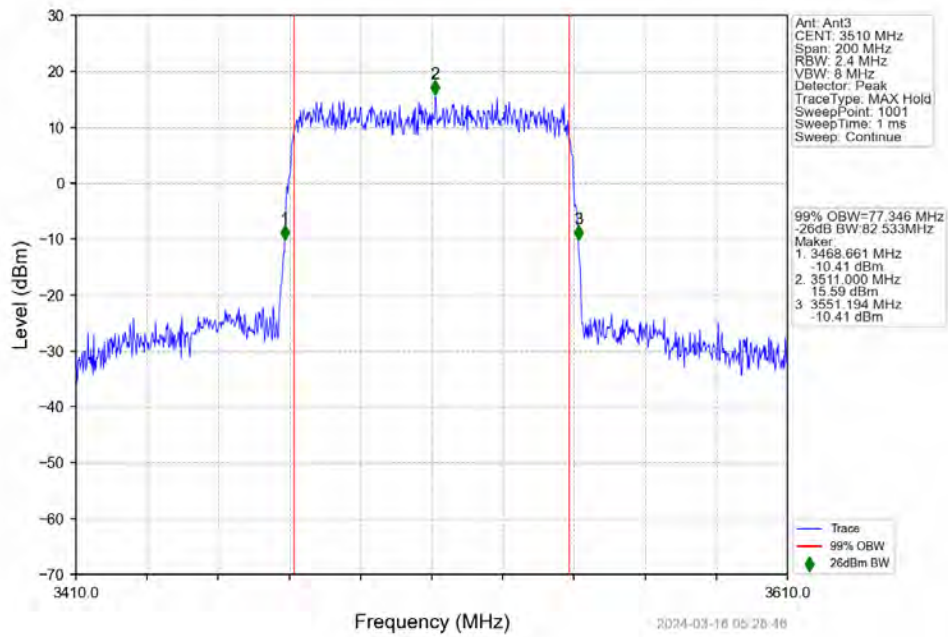
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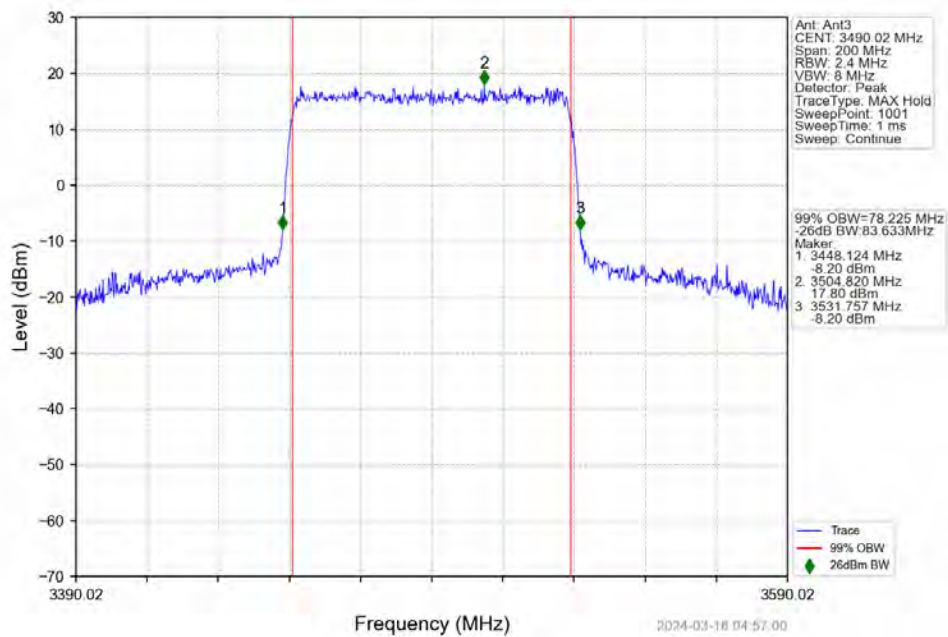
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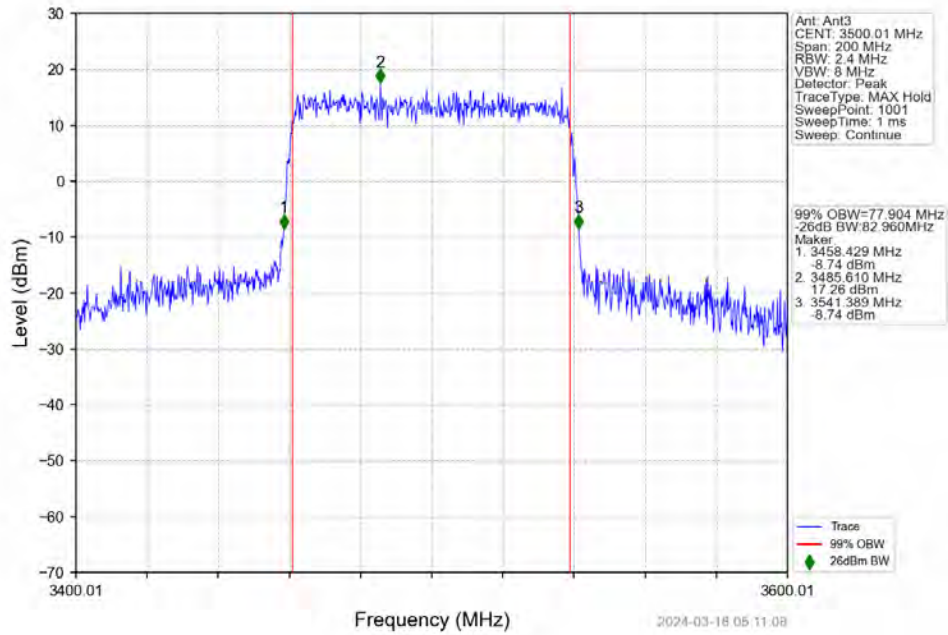
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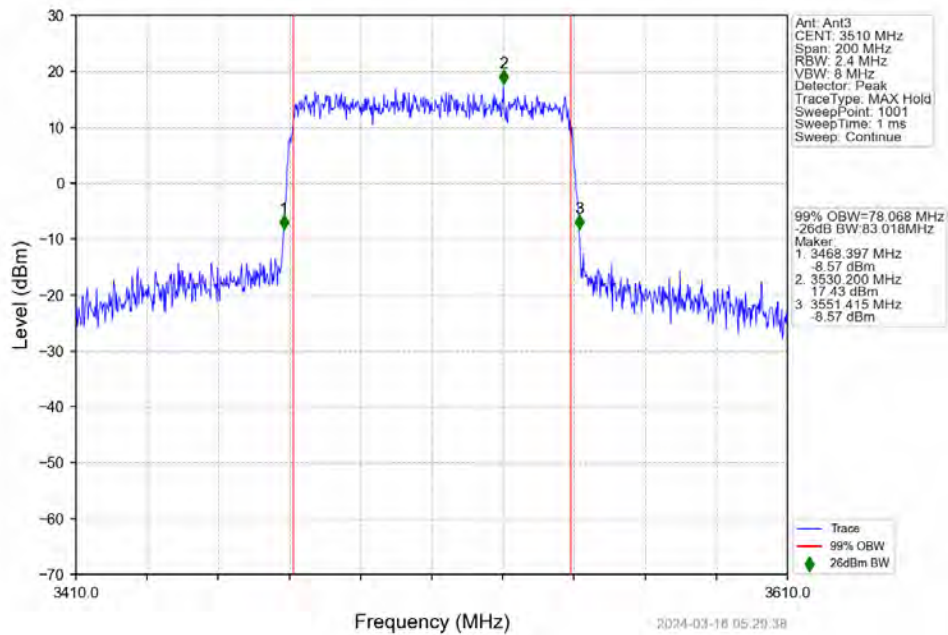
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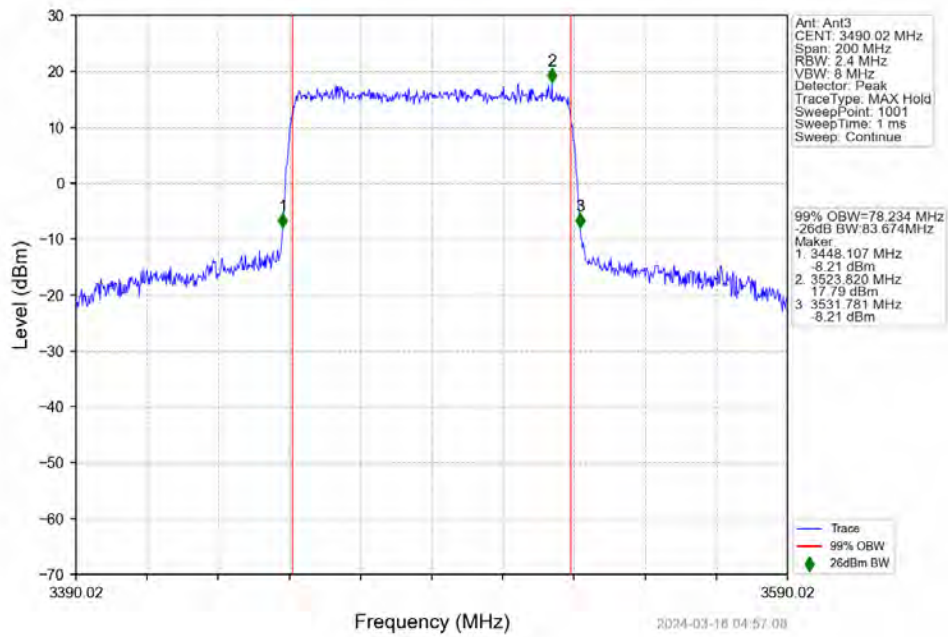
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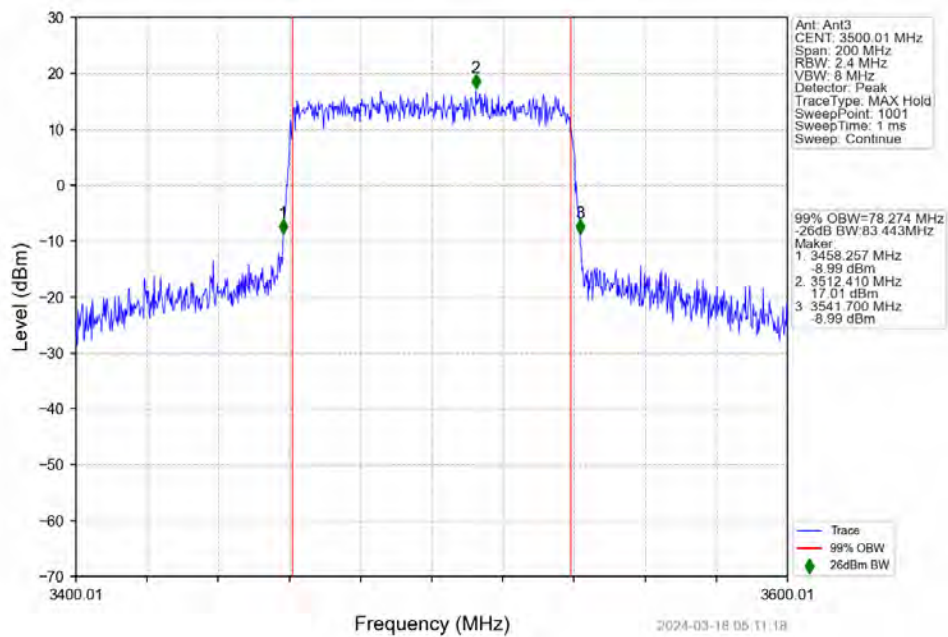
n78e 30kHz SISO NTN 80MHz CP-OFDM QPSK 3510MHz Outer Full



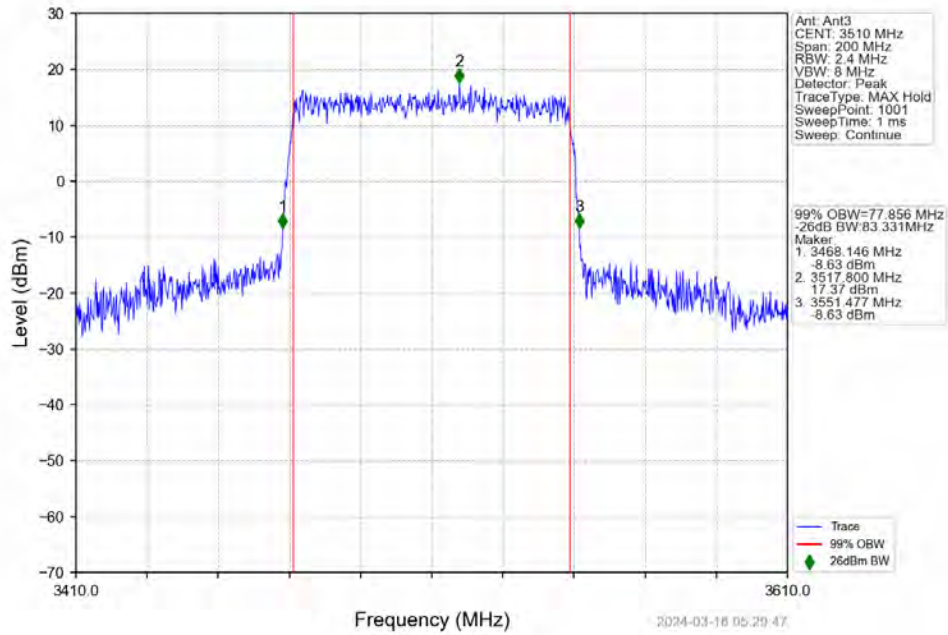
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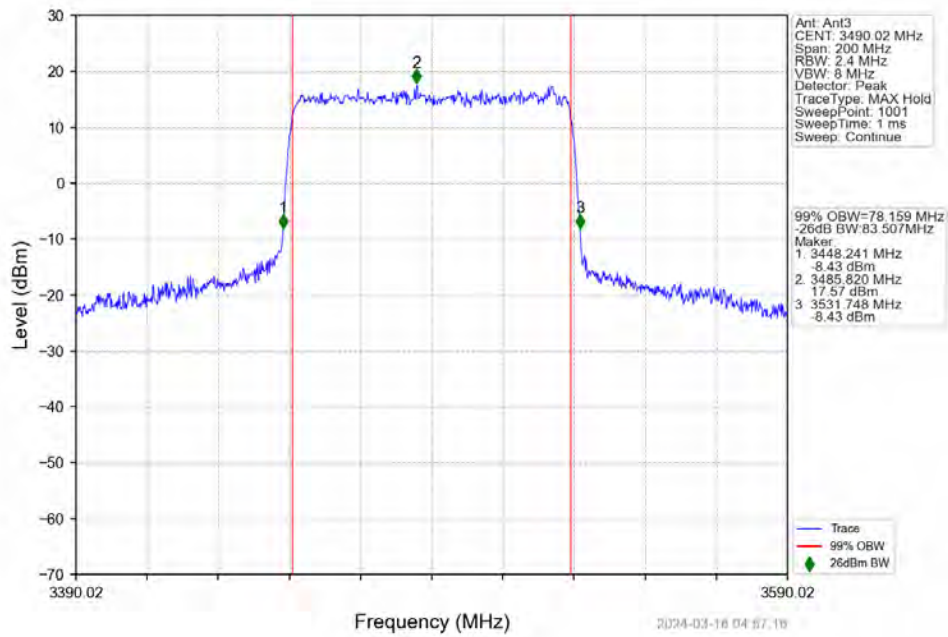
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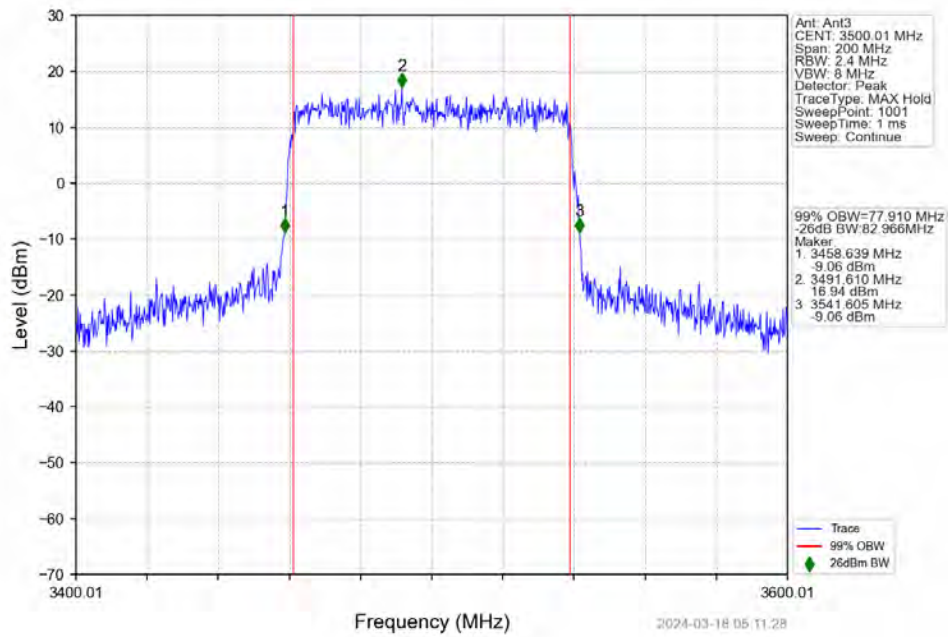
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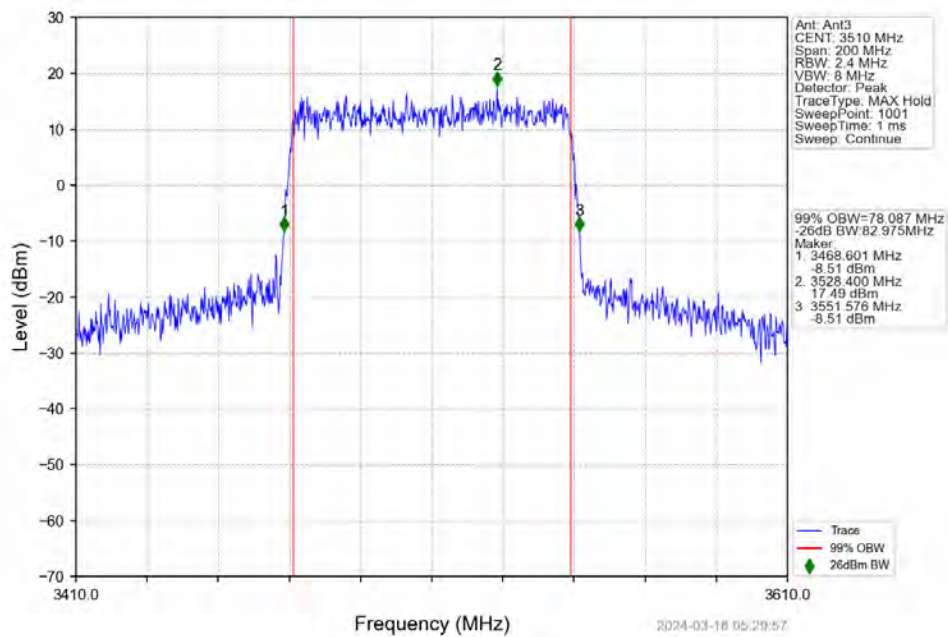
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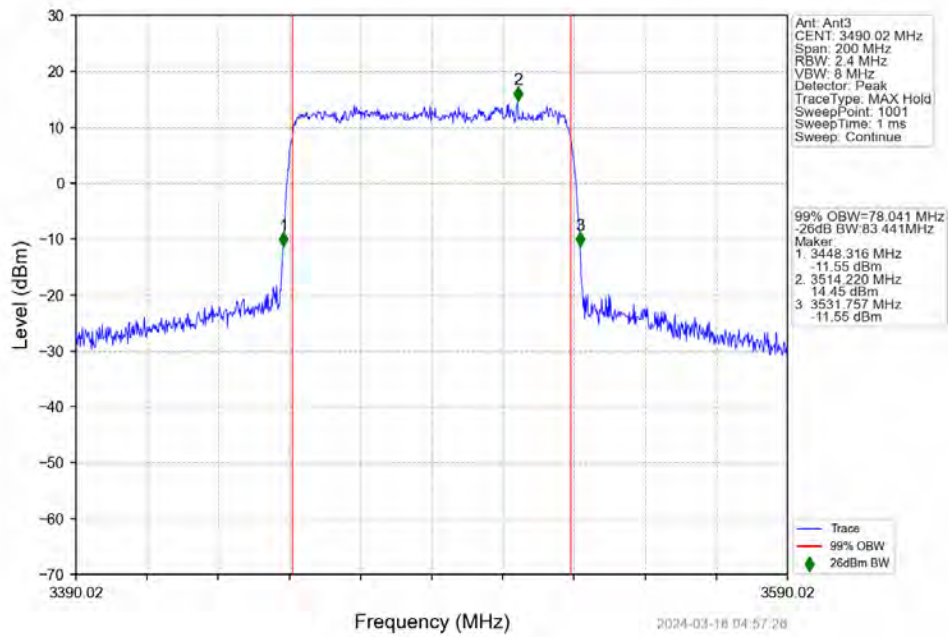
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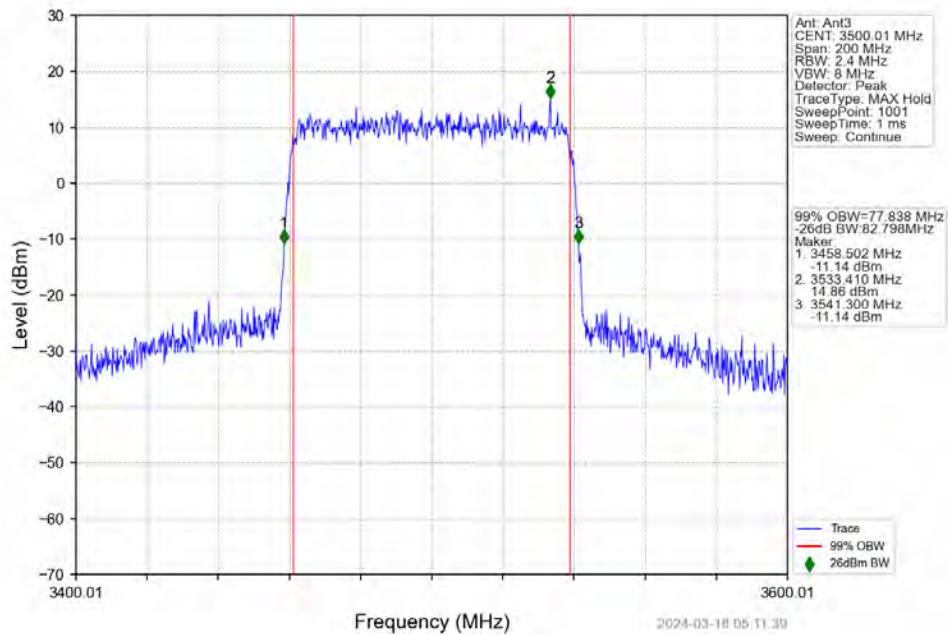
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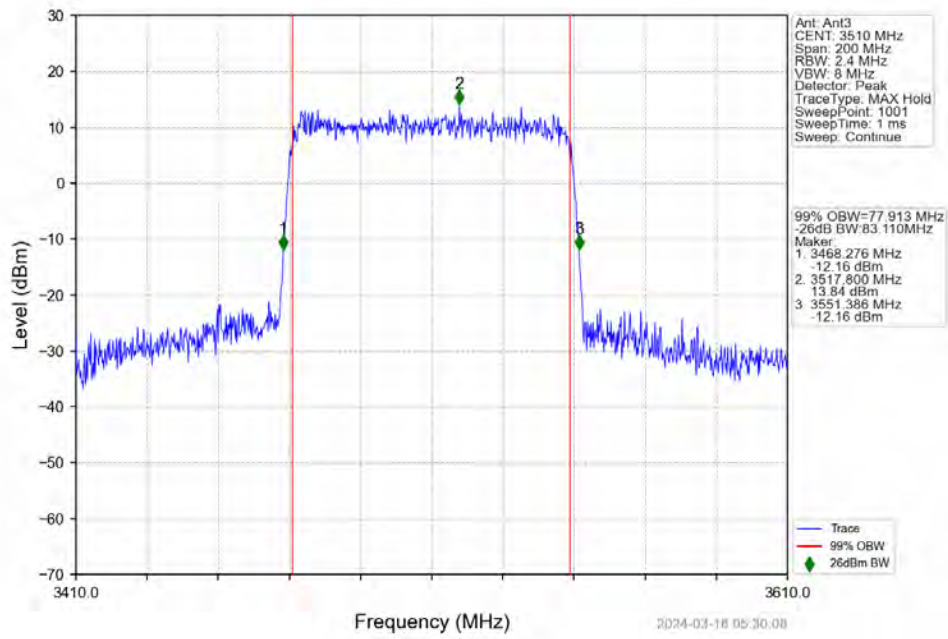
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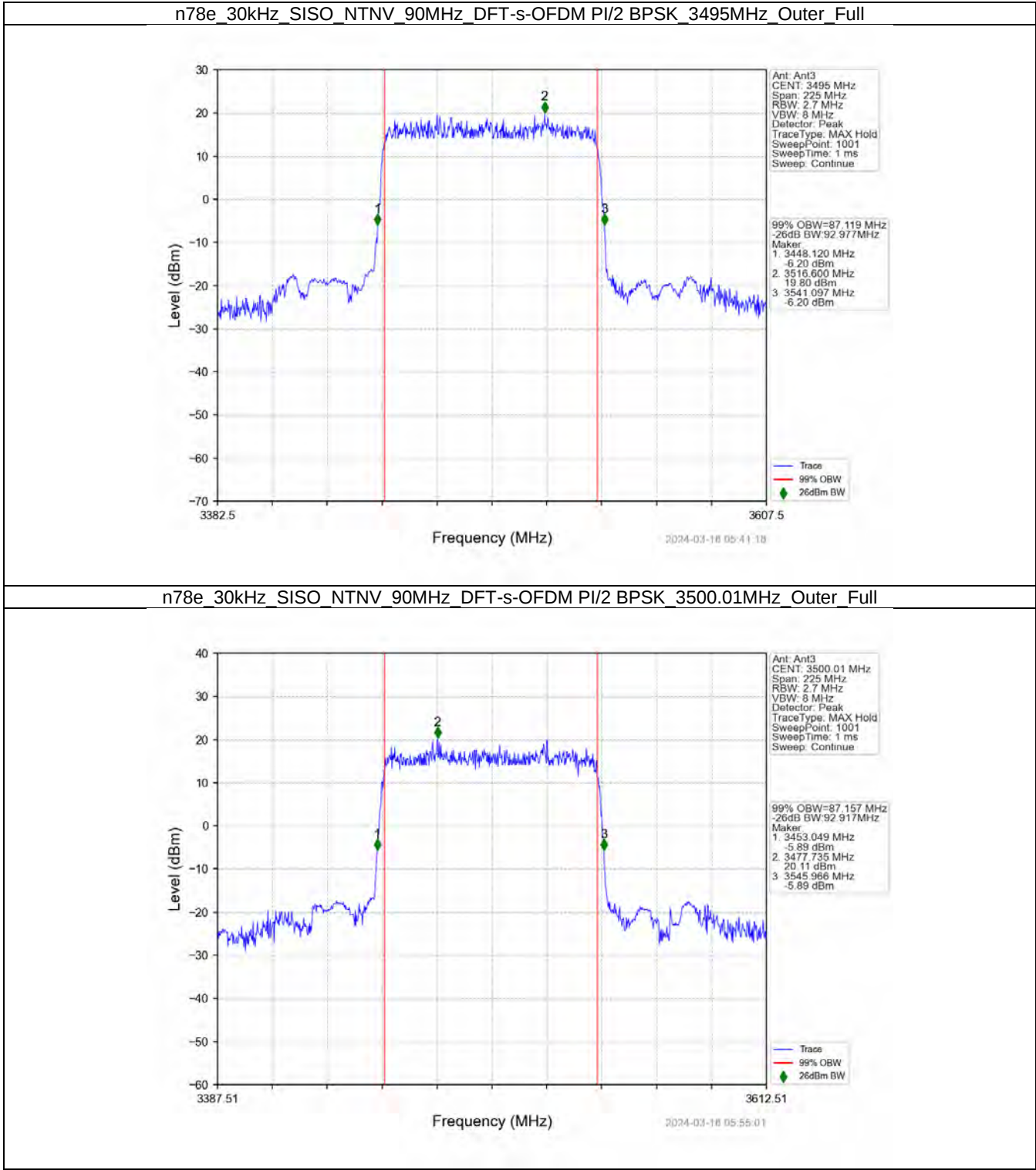


3.8 30k_SISO_90MHz_NTNV

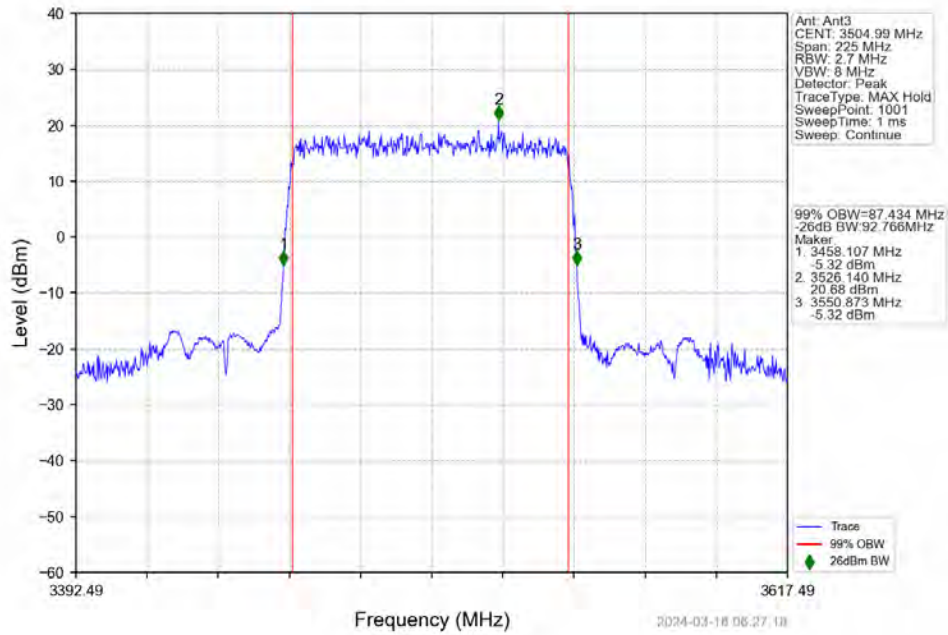
3.8.1 Test Result

5G NR n78e SCS=30kHz SISO 90MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3495	Outer_Full	87.12	92.98	/	Pass
	3500.01	Outer_Full	87.16	92.92	/	Pass
	3504.99	Outer_Full	87.43	92.77	/	Pass
DFT-s-OFDM QPSK	3495	Outer_Full	87.15	92.92	/	Pass
	3500.01	Outer_Full	87.31	92.90	/	Pass
	3504.99	Outer_Full	87.34	93.48	/	Pass
DFT-s-OFDM 16 QAM	3495	Outer_Full	87.68	92.99	/	Pass
	3500.01	Outer_Full	87.36	93.17	/	Pass
	3504.99	Outer_Full	88.45	93.16	/	Pass
DFT-s-OFDM 64 QAM	3495	Outer_Full	87.19	92.97	/	Pass
	3500.01	Outer_Full	87.94	93.19	/	Pass
	3504.99	Outer_Full	86.98	93.24	/	Pass
DFT-s-OFDM 256 QAM	3495	Outer_Full	87.07	92.85	/	Pass
	3500.01	Outer_Full	87.29	93.10	/	Pass
	3504.99	Outer_Full	86.61	92.92	/	Pass
CP-OFDM QPSK	3495	Outer_Full	88.05	94.13	/	Pass
	3500.01	Outer_Full	88.20	93.98	/	Pass
	3504.99	Outer_Full	88.23	93.69	/	Pass
CP-OFDM 16 QAM	3495	Outer_Full	87.82	93.47	/	Pass
	3500.01	Outer_Full	88.24	93.76	/	Pass
	3504.99	Outer_Full	87.80	93.68	/	Pass
CP-OFDM 64 QAM	3495	Outer_Full	88.11	93.78	/	Pass
	3500.01	Outer_Full	88.33	93.80	/	Pass
	3504.99	Outer_Full	88.39	93.64	/	Pass
CP-OFDM 256 QAM	3495	Outer_Full	87.83	93.42	/	Pass
	3500.01	Outer_Full	87.99	93.93	/	Pass
	3504.99	Outer_Full	87.75	93.63	/	Pass

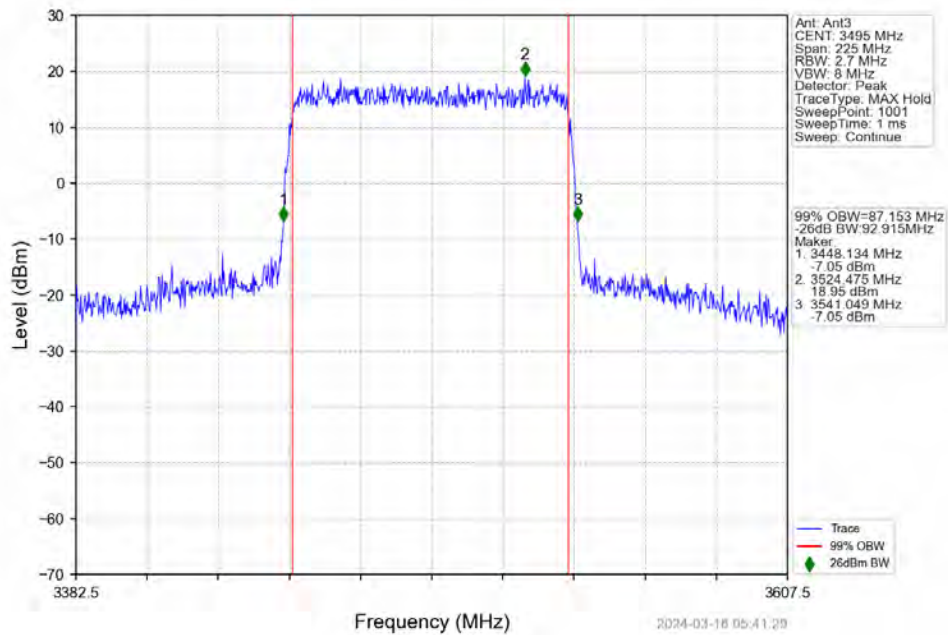
3.8.2 Test Graph



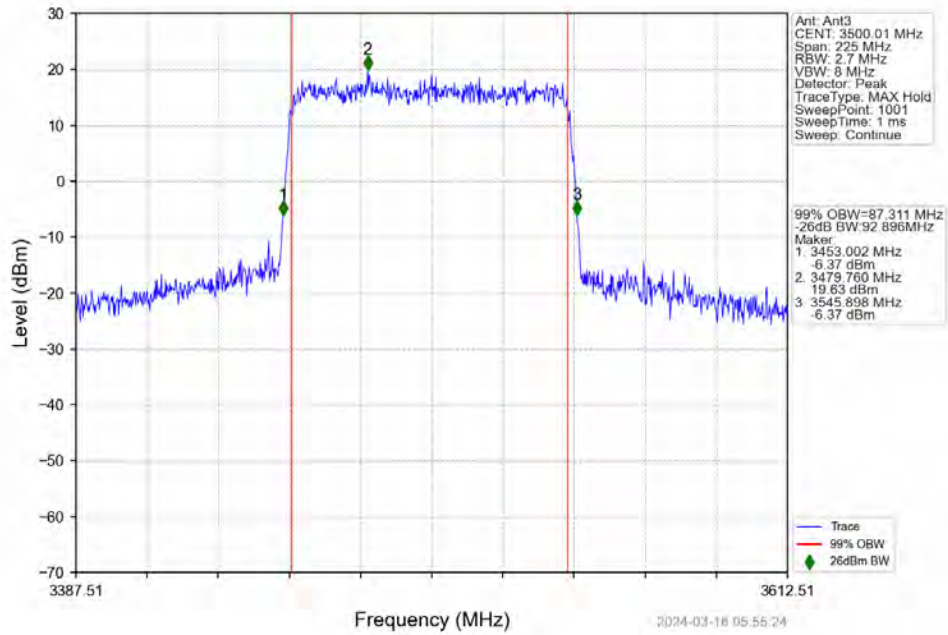
n78e 30kHz SISO NTN 90MHz DFT-s-OFDM PI/2 BPSK 3504.99MHz Outer Full



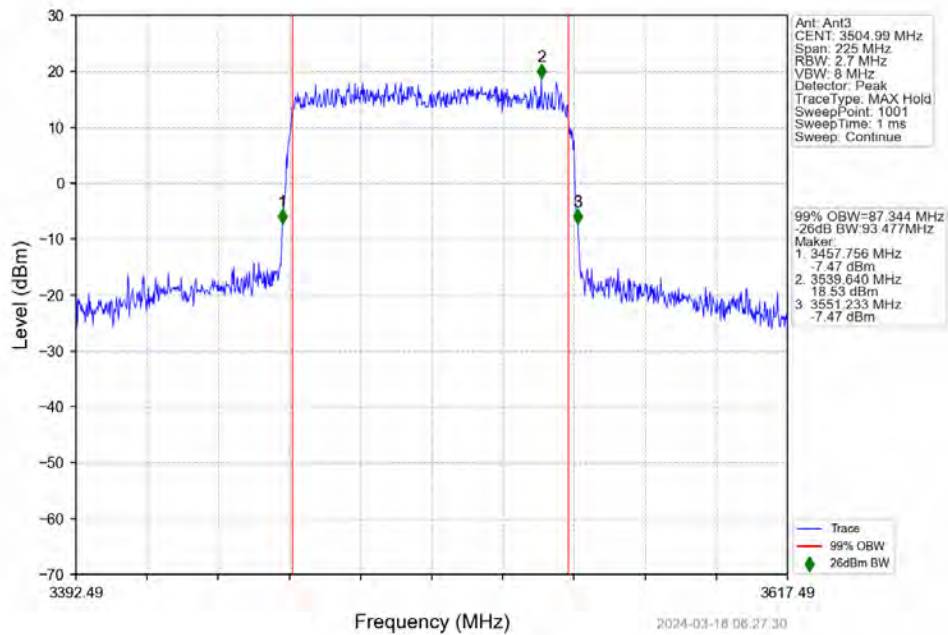
n78e 30kHz SISO NTN 90MHz DFT-s-OFDM QPSK 3495MHz Outer Full



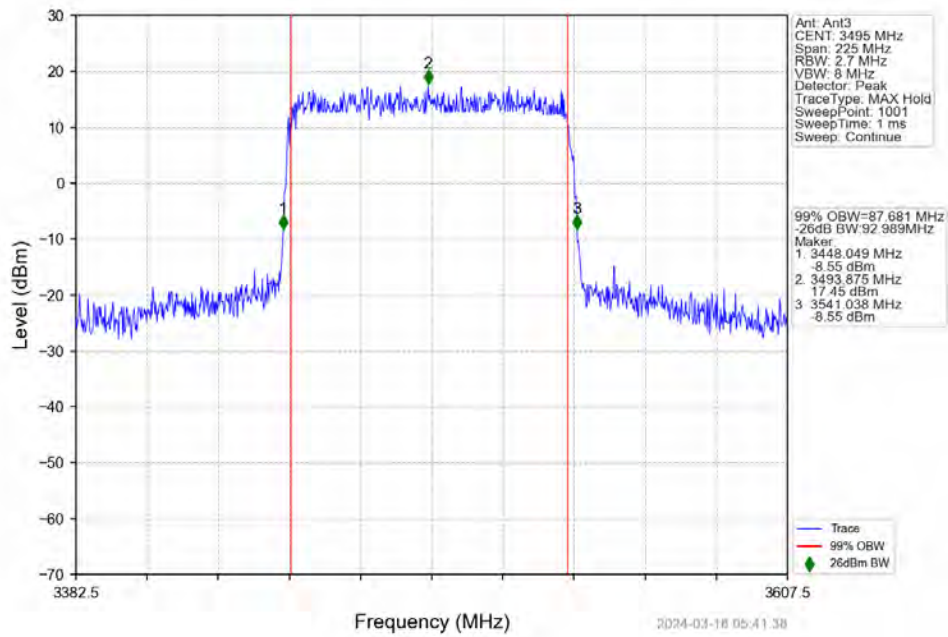
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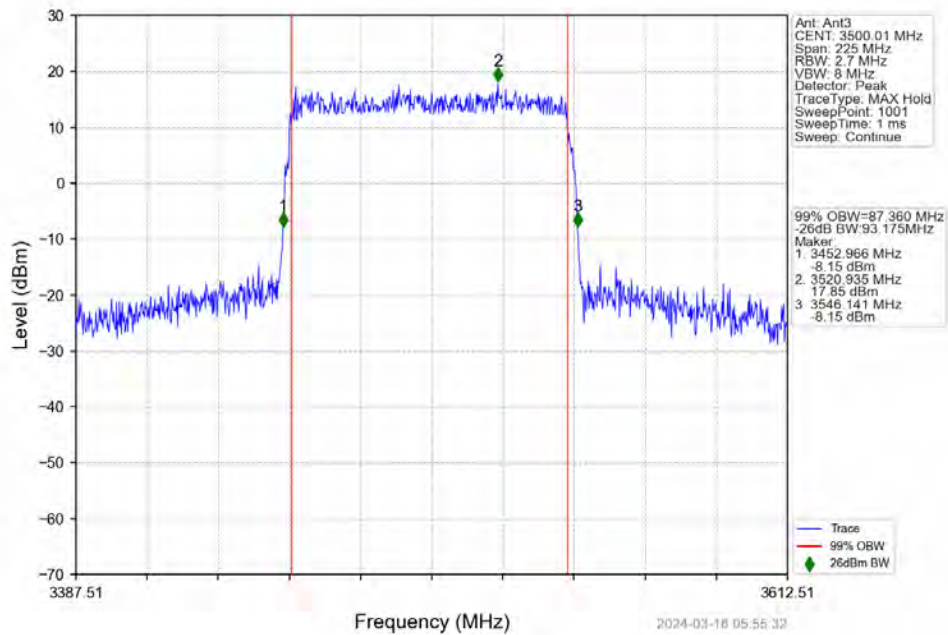
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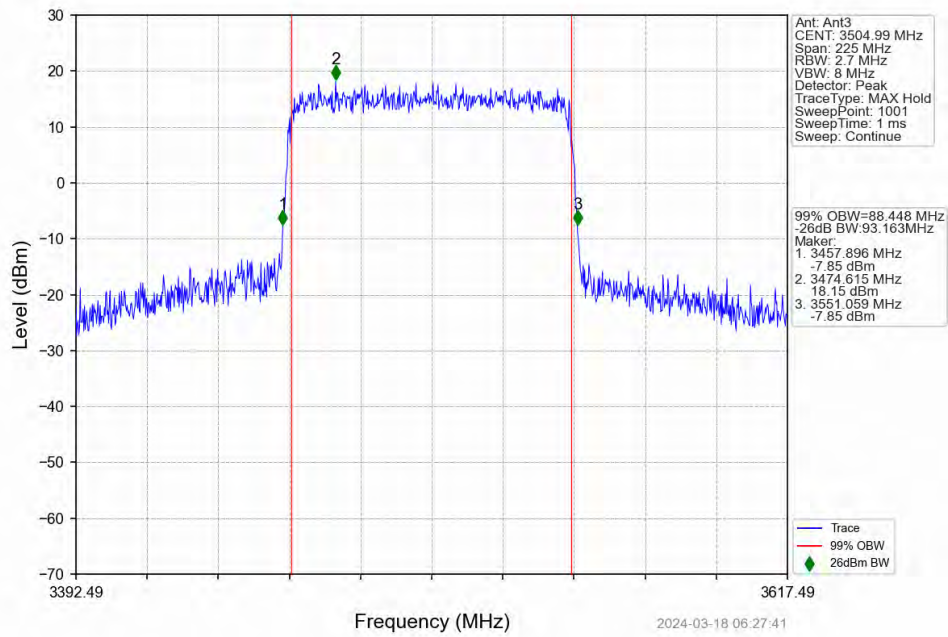
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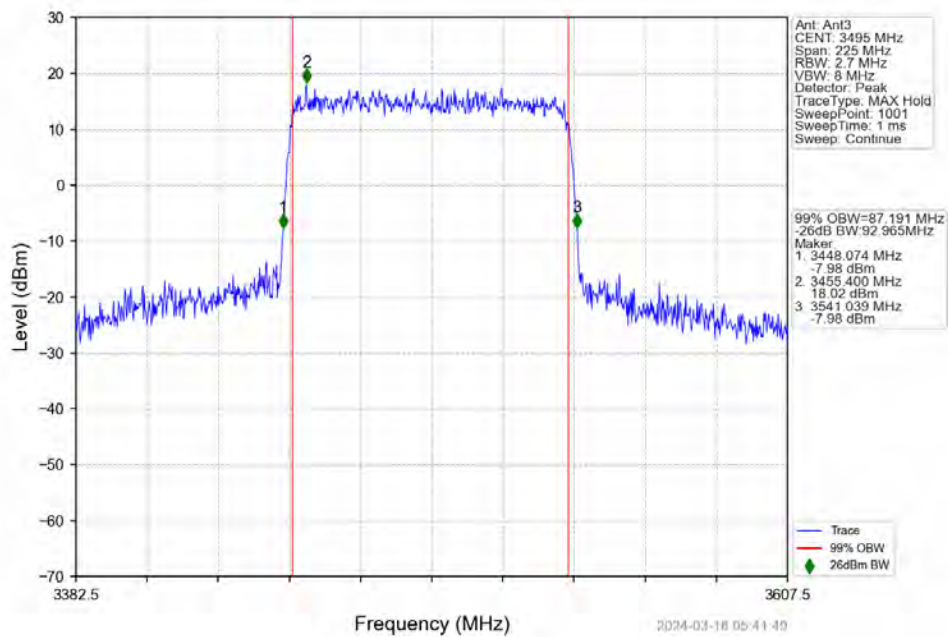
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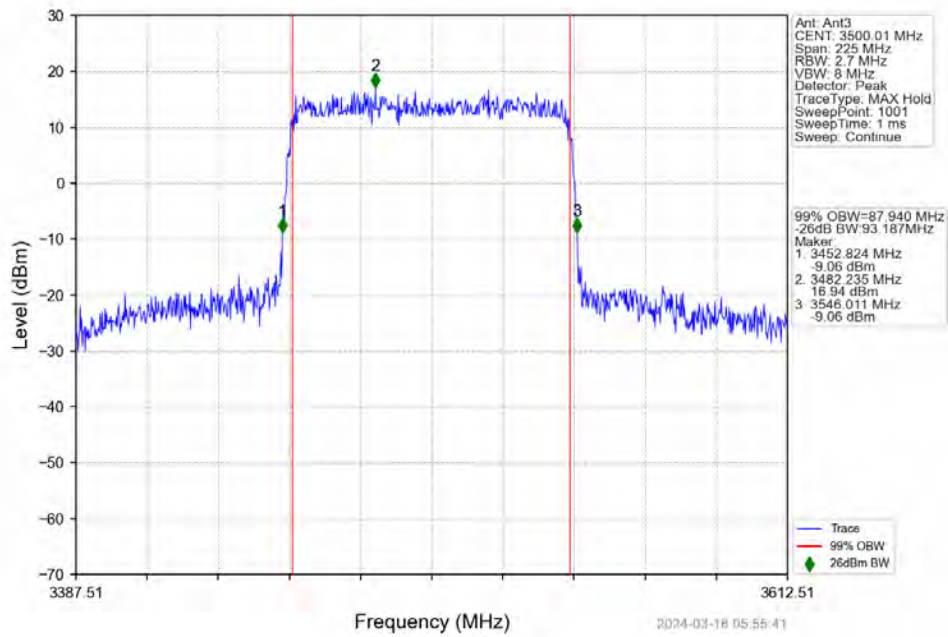
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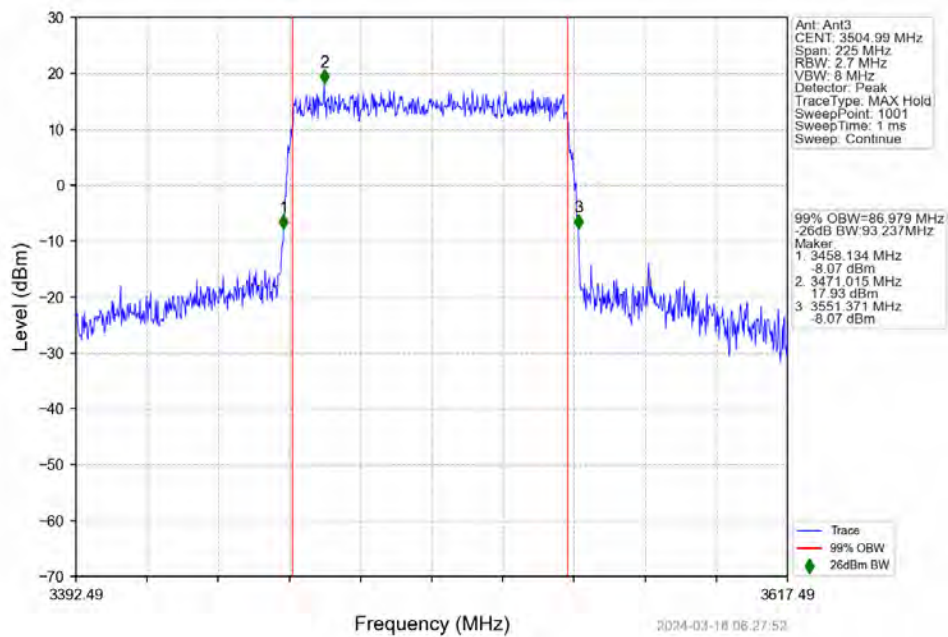
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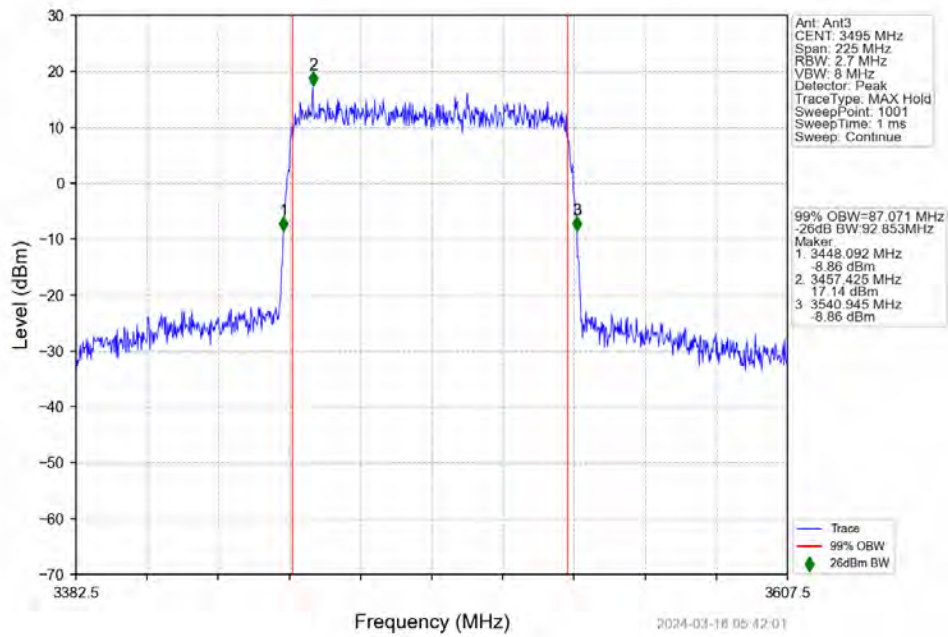
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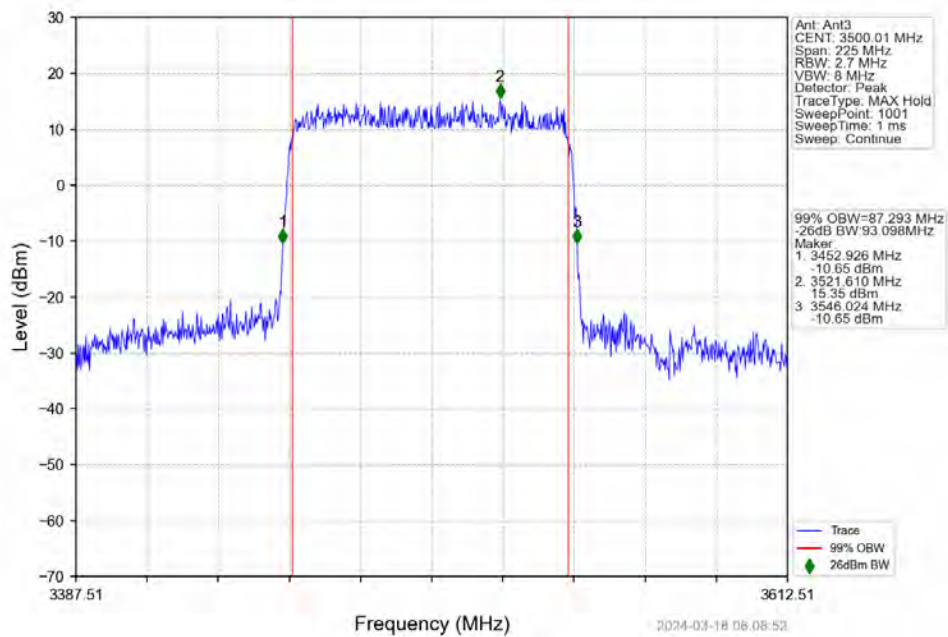
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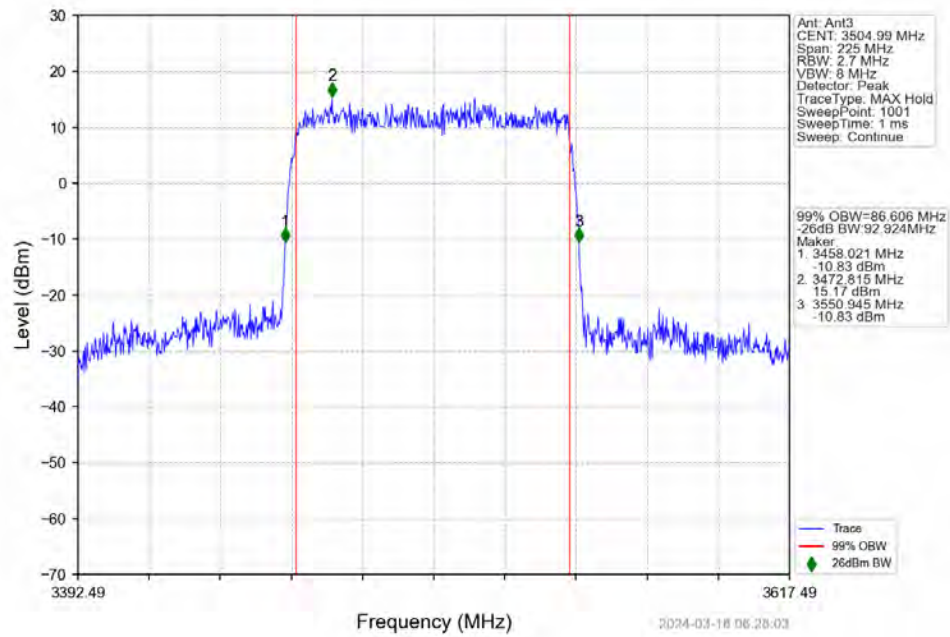
n78e 30kHz SISO NTN 90MHz DFT-s-OFDM 256 QAM 3495MHz Outer Full



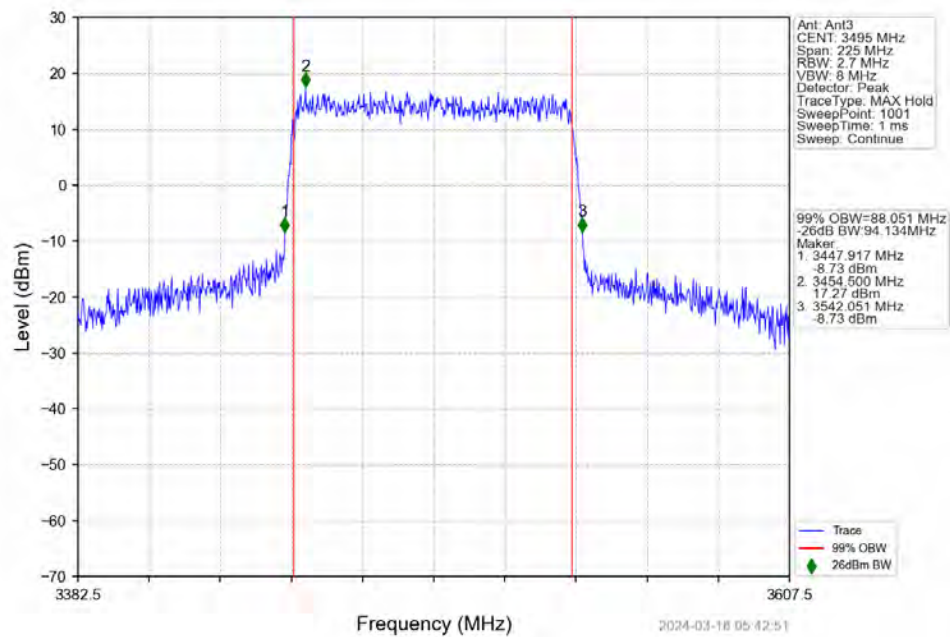
n78e 30kHz SISO NTN 90MHz DFT-s-OFDM 256 QAM 3500.01MHz Outer Full



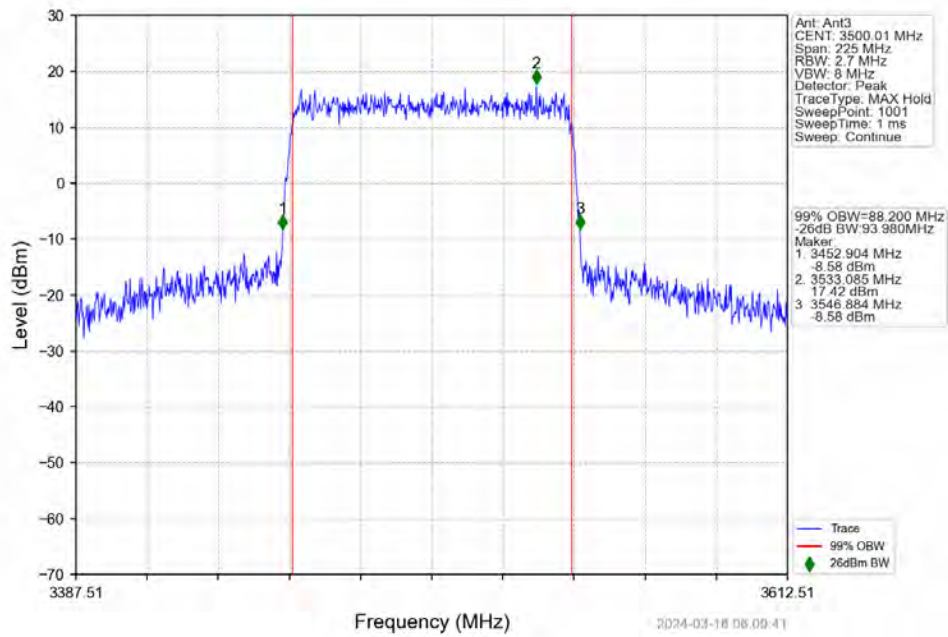
n78e 30kHz SISO NTN 90MHz DFT-s-OFDM 256 QAM 3504.99MHz Outer Full



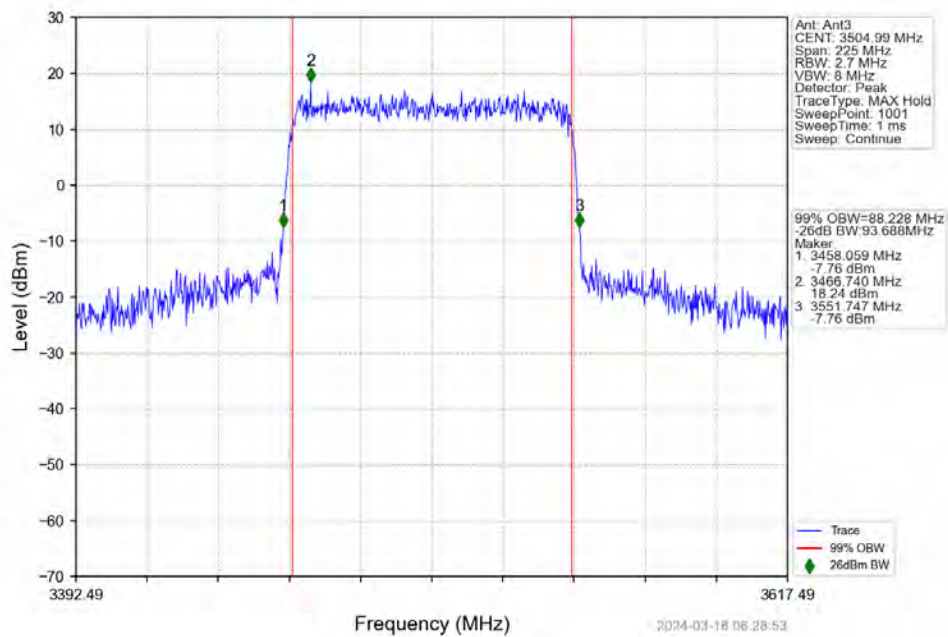
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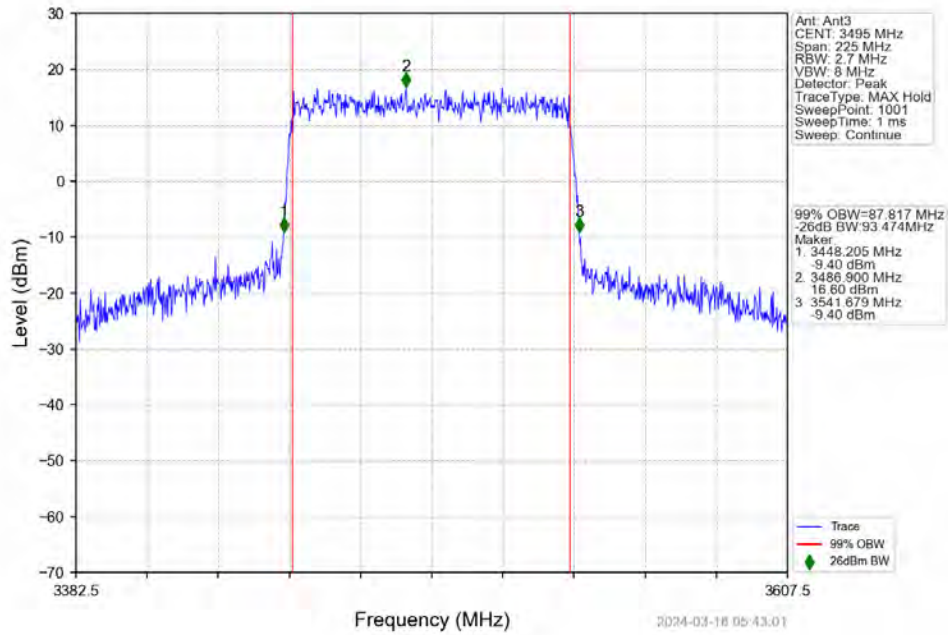
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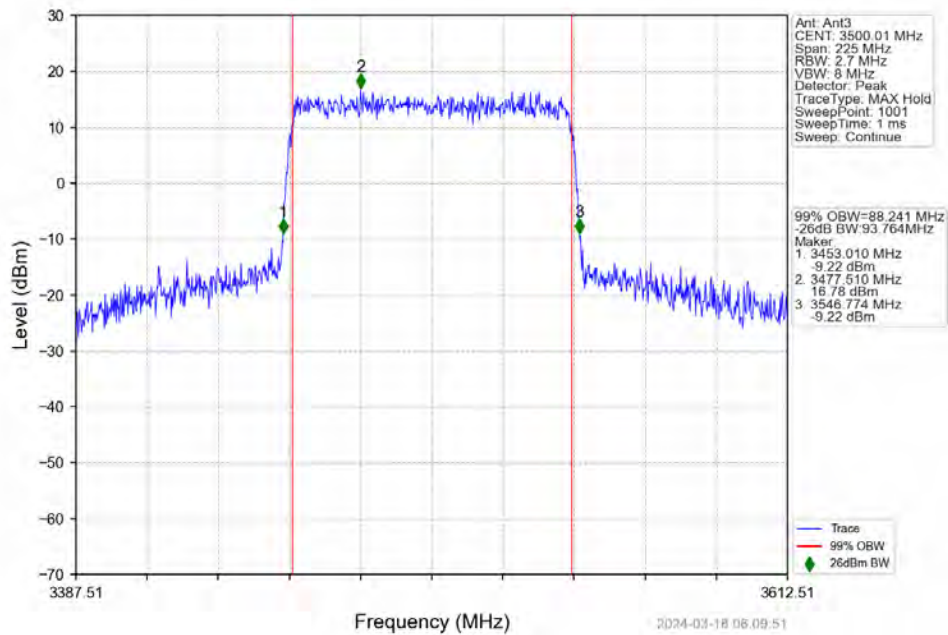
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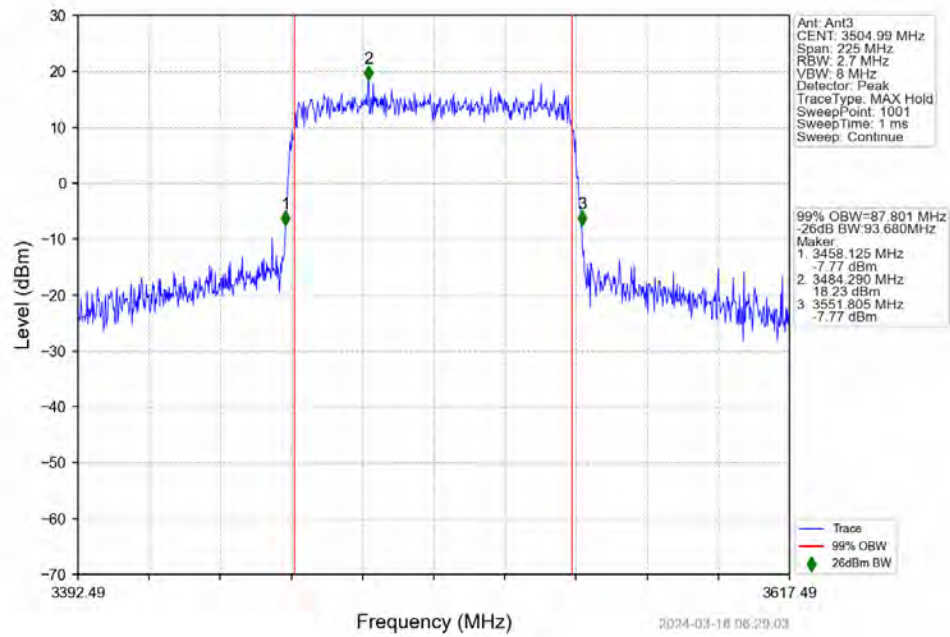
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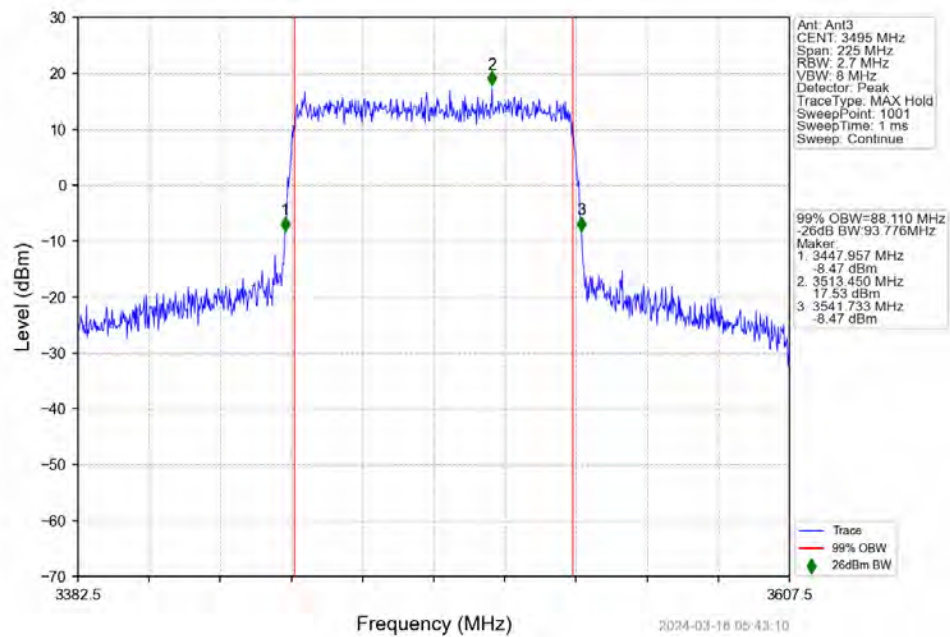
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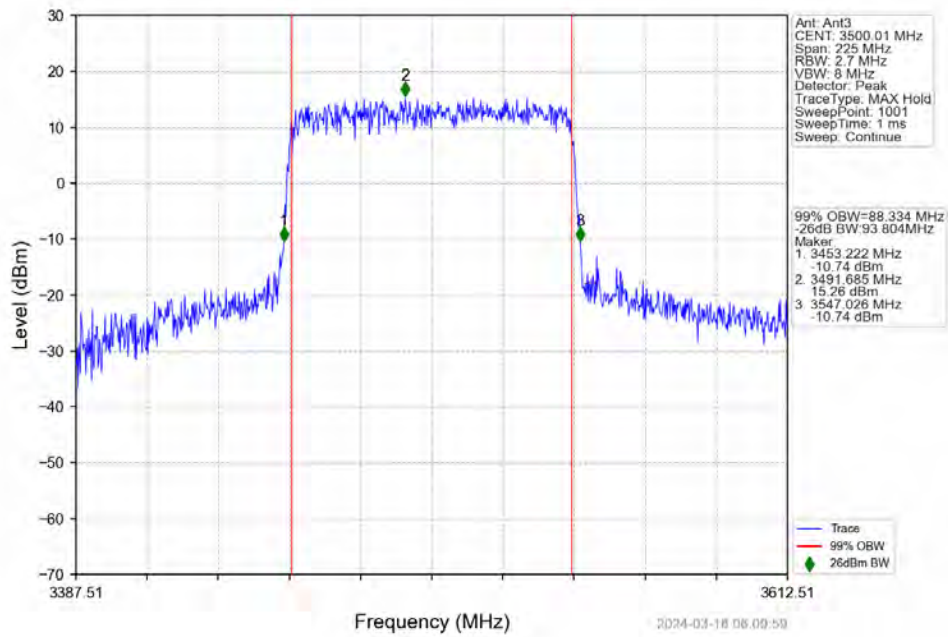
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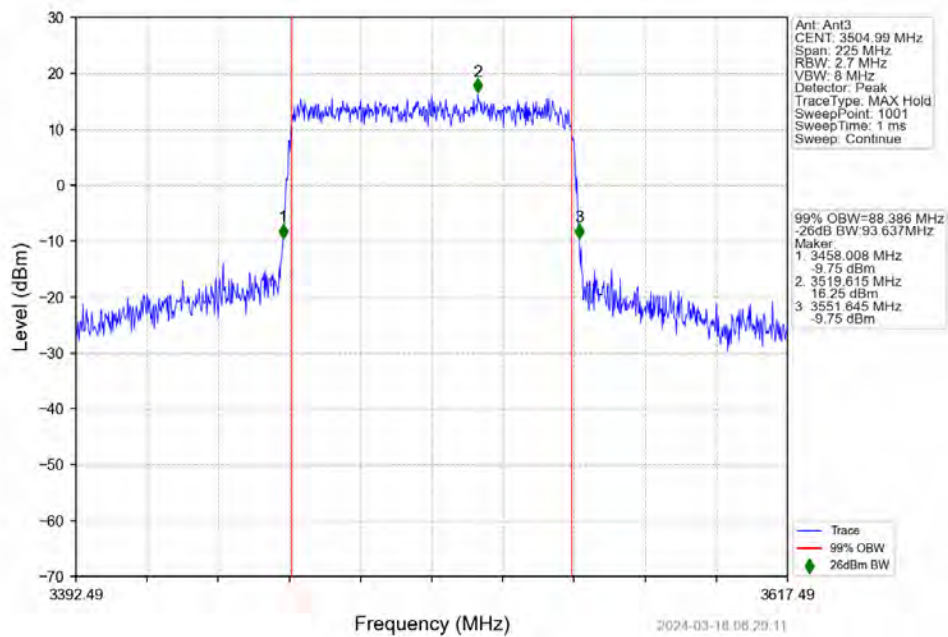
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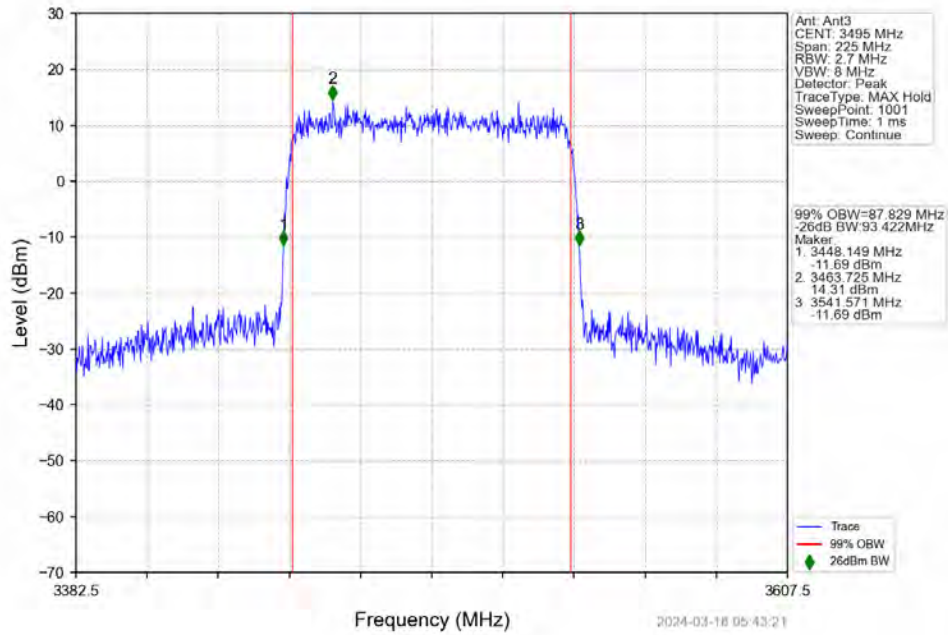
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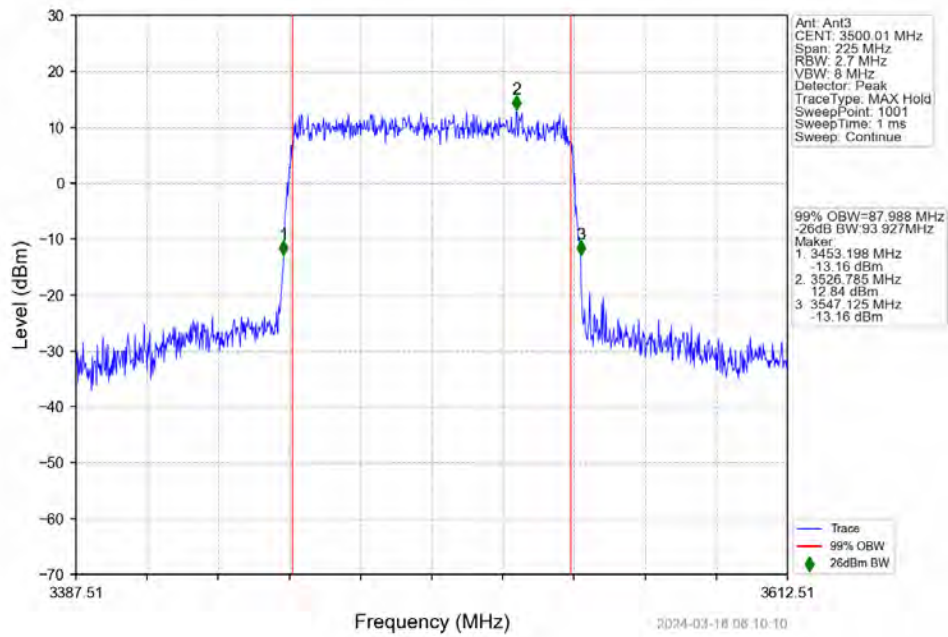
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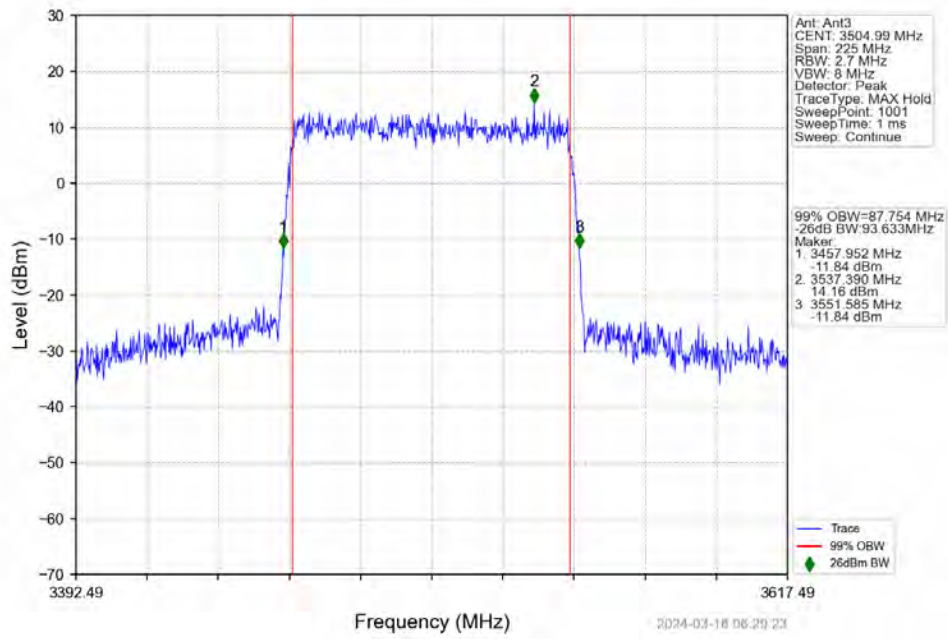
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n78e 30kHz SISO NTN 90MHz CP-OFDM 256 QAM 3500.01MHz Outer Full



n78e 30kHz SISO NTN 90MHz CP-OFDM 256 QAM 3504.99MHz Outer Full

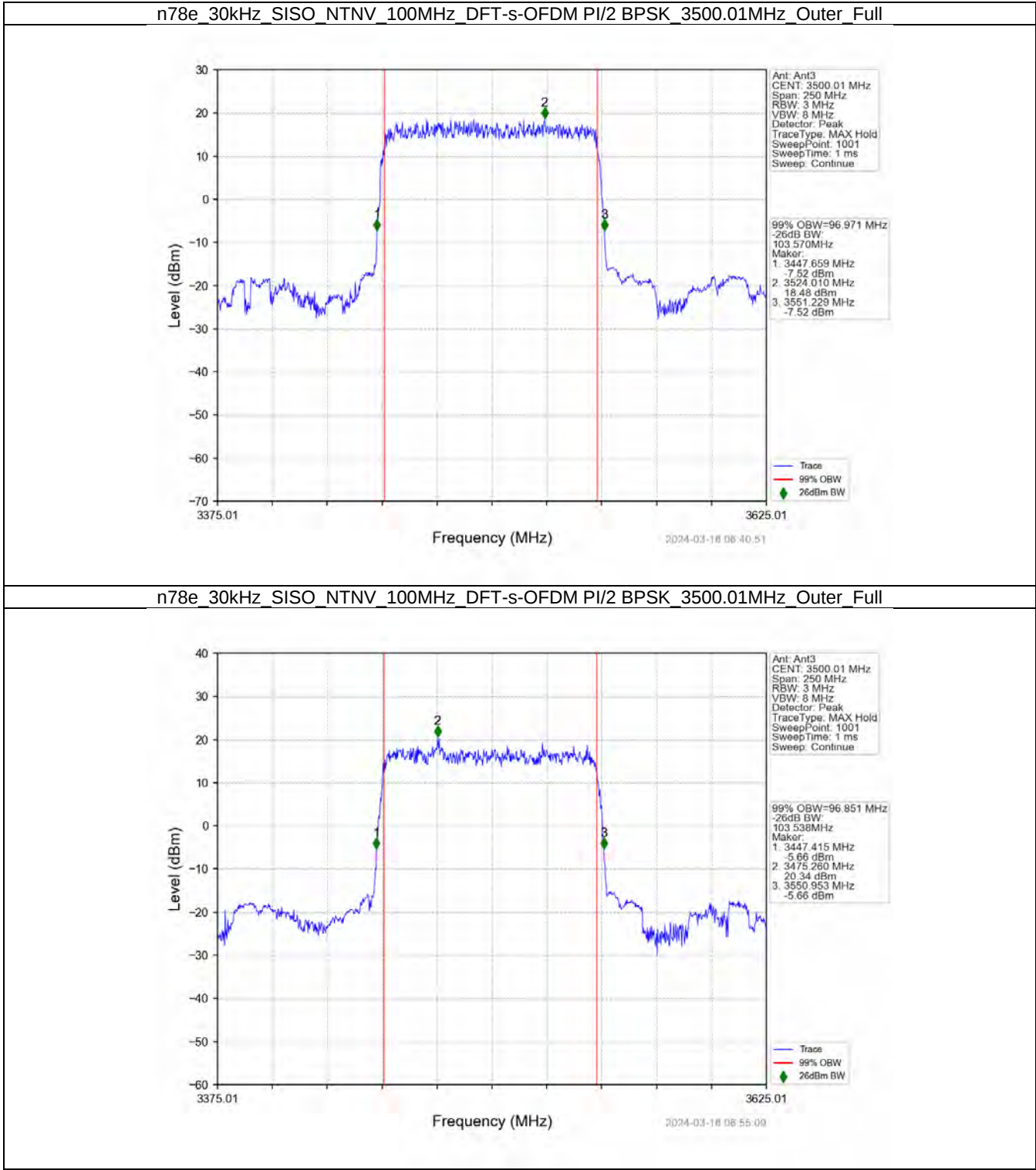


3.9 30k_SISO_100MHz_NTNV

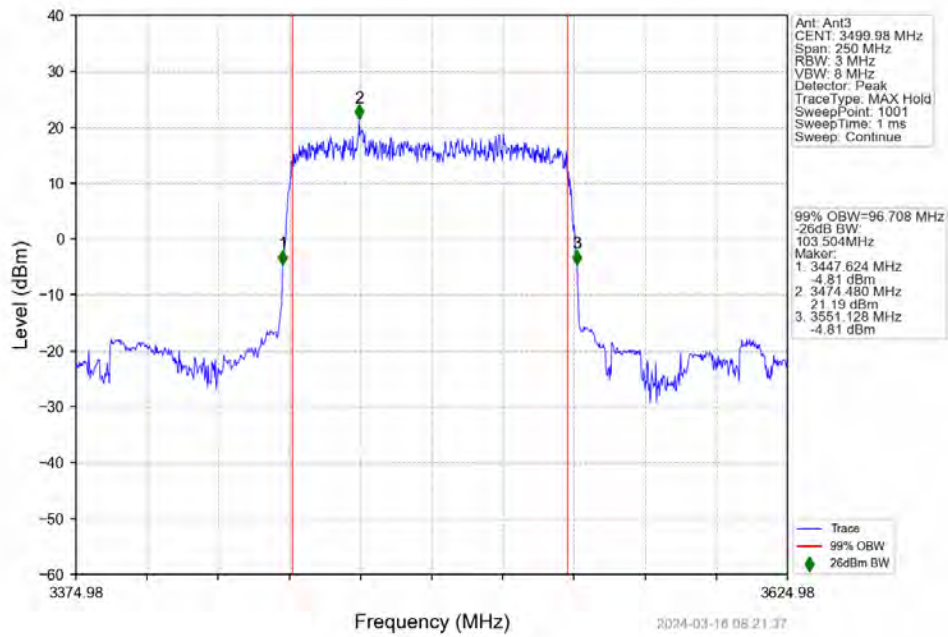
3.9.1 Test Result

5G NR n78e SCS=30kHz SISO 100MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3500.01	Outer_Full	96.97	103.57	/	Pass
	3500.01	Outer_Full	96.85	103.54	/	Pass
	3499.98	Outer_Full	96.71	103.50	/	Pass
DFT-s-OFDM QPSK	3500.01	Outer_Full	97.14	103.65	/	Pass
	3500.01	Outer_Full	97.23	103.30	/	Pass
	3499.98	Outer_Full	97.41	103.32	/	Pass
DFT-s-OFDM 16 QAM	3500.01	Outer_Full	97.13	103.15	/	Pass
	3500.01	Outer_Full	97.11	103.48	/	Pass
	3499.98	Outer_Full	97.16	103.21	/	Pass
DFT-s-OFDM 64 QAM	3500.01	Outer_Full	97.01	103.42	/	Pass
	3500.01	Outer_Full	97.05	103.29	/	Pass
	3499.98	Outer_Full	97.52	103.45	/	Pass
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	96.93	103.66	/	Pass
	3500.01	Outer_Full	97.03	103.61	/	Pass
	3499.98	Outer_Full	97.08	103.53	/	Pass
CP-OFDM QPSK	3500.01	Outer_Full	97.87	104.58	/	Pass
	3500.01	Outer_Full	97.96	104.64	/	Pass
	3499.98	Outer_Full	98.20	104.78	/	Pass
CP-OFDM 16 QAM	3500.01	Outer_Full	98.35	104.21	/	Pass
	3500.01	Outer_Full	98.20	104.22	/	Pass
	3499.98	Outer_Full	98.25	104.45	/	Pass
CP-OFDM 64 QAM	3500.01	Outer_Full	98.50	104.52	/	Pass
	3500.01	Outer_Full	98.10	104.55	/	Pass
	3499.98	Outer_Full	98.30	104.53	/	Pass
CP-OFDM 256 QAM	3500.01	Outer_Full	98.24	103.97	/	Pass
	3500.01	Outer_Full	98.01	104.32	/	Pass
	3499.98	Outer_Full	97.76	104.40	/	Pass

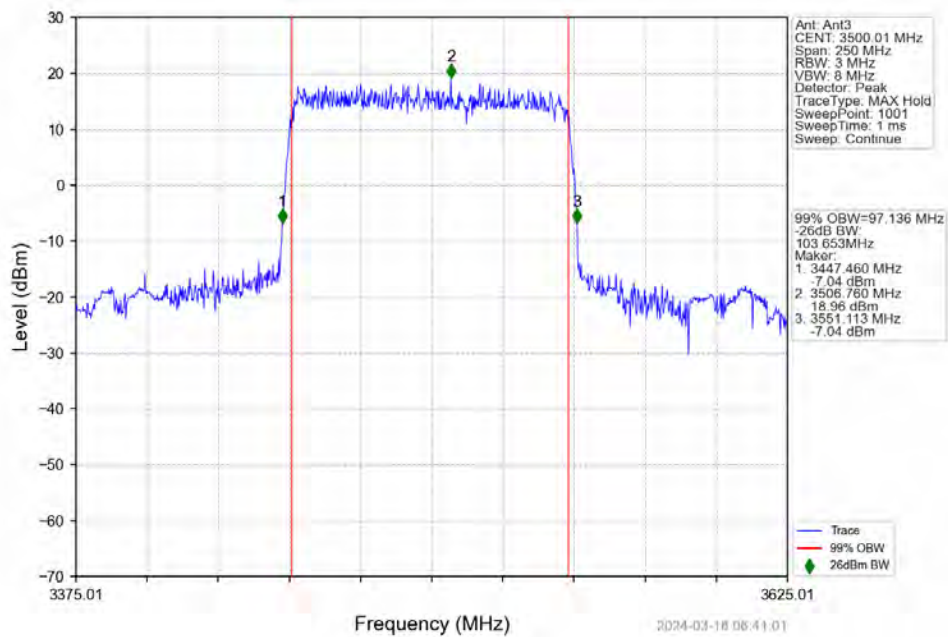
3.9.2 Test Graph



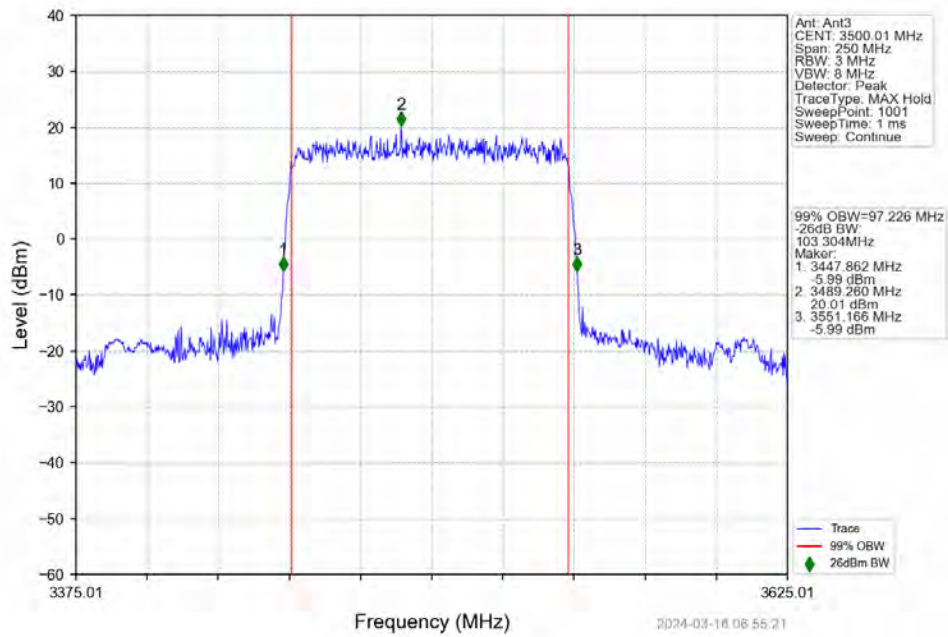
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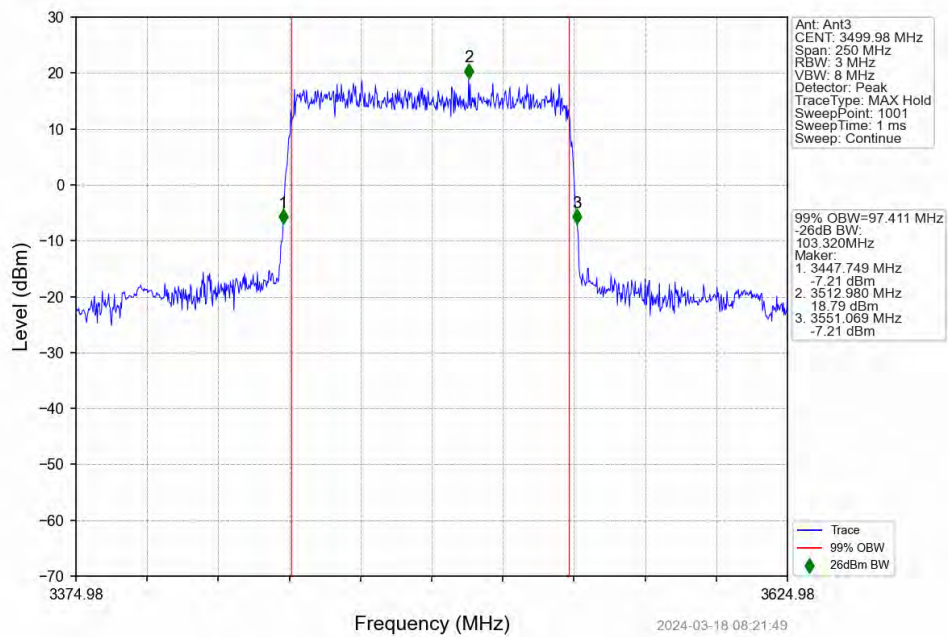
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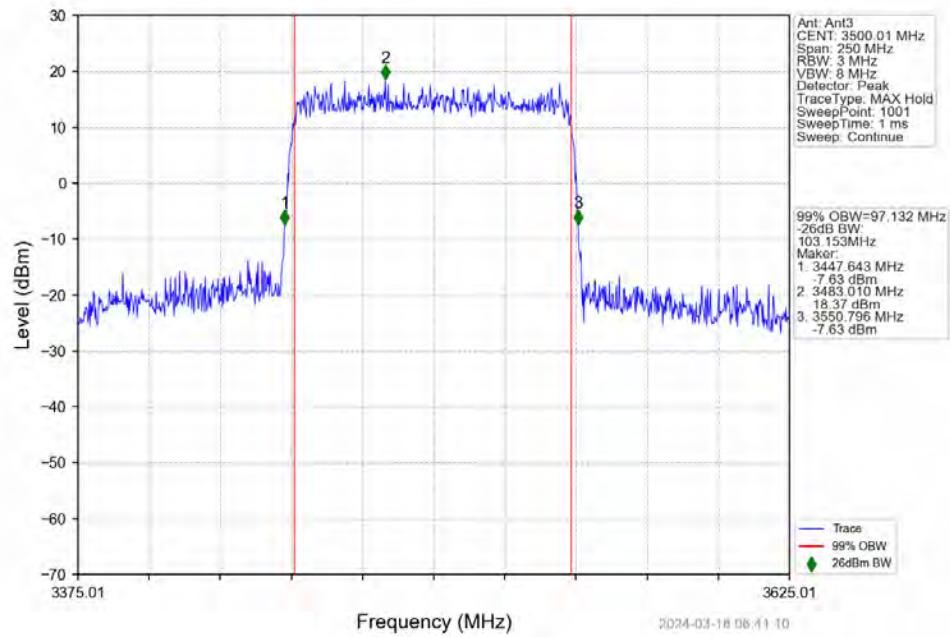
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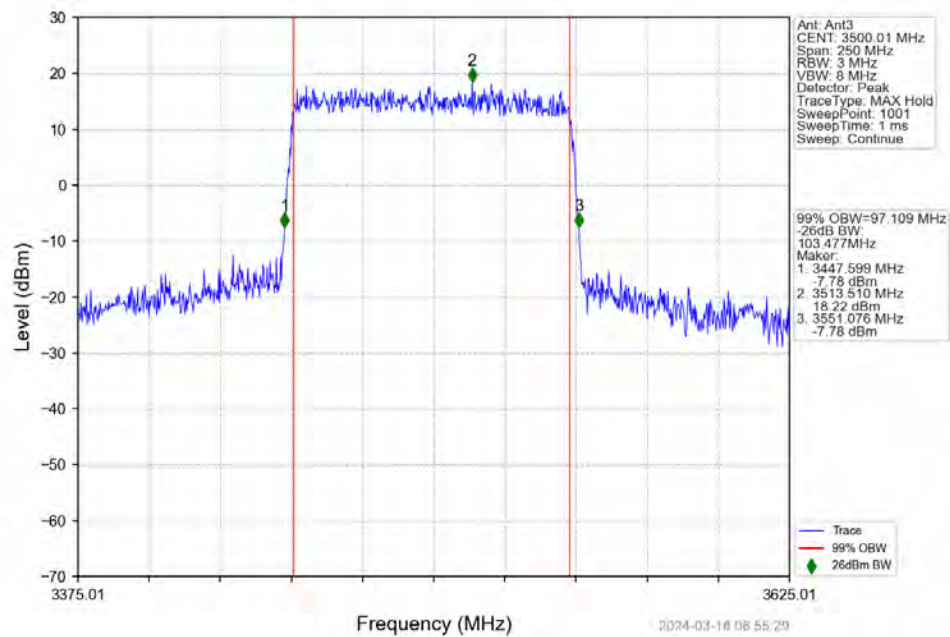
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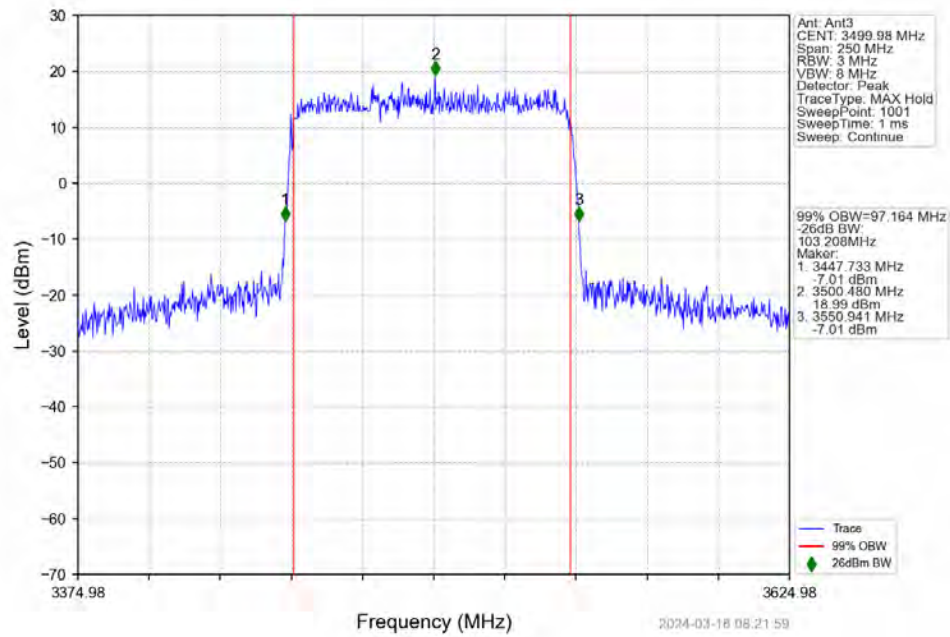
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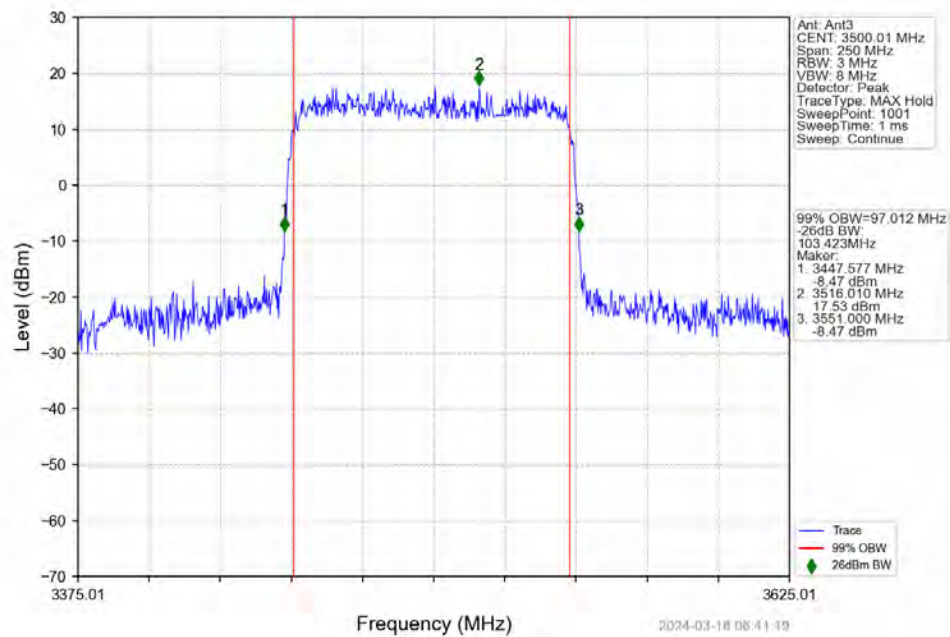
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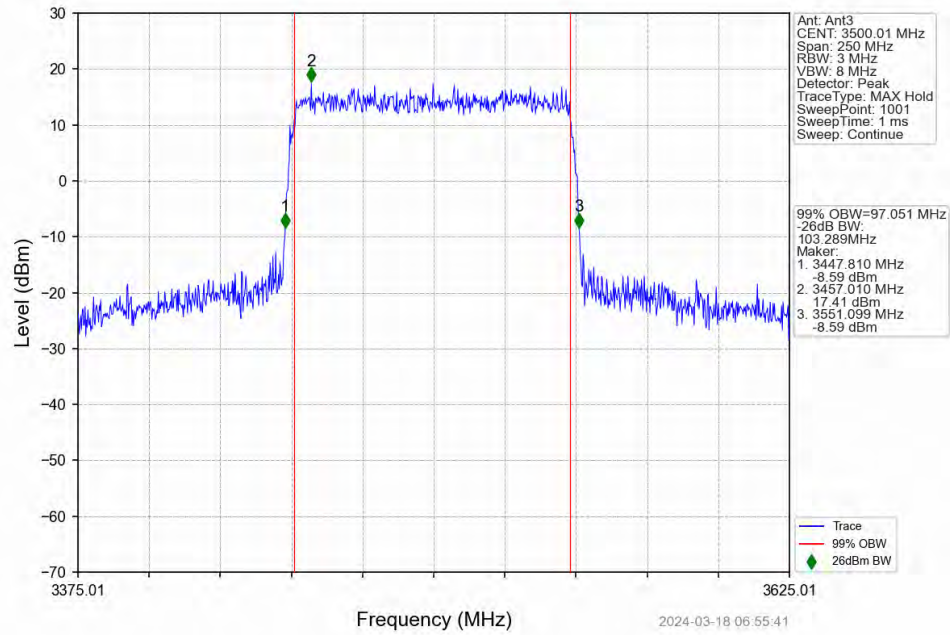
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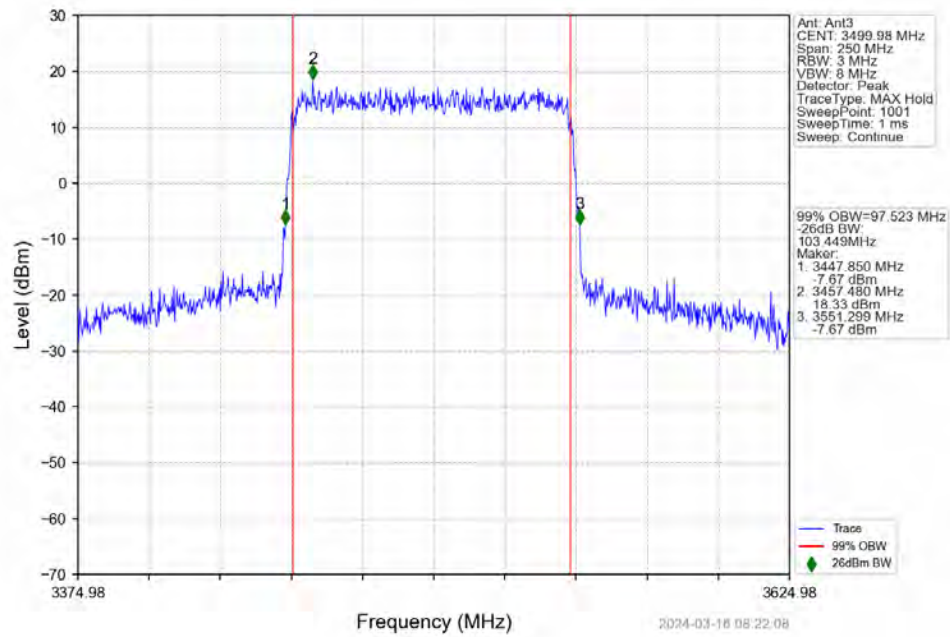
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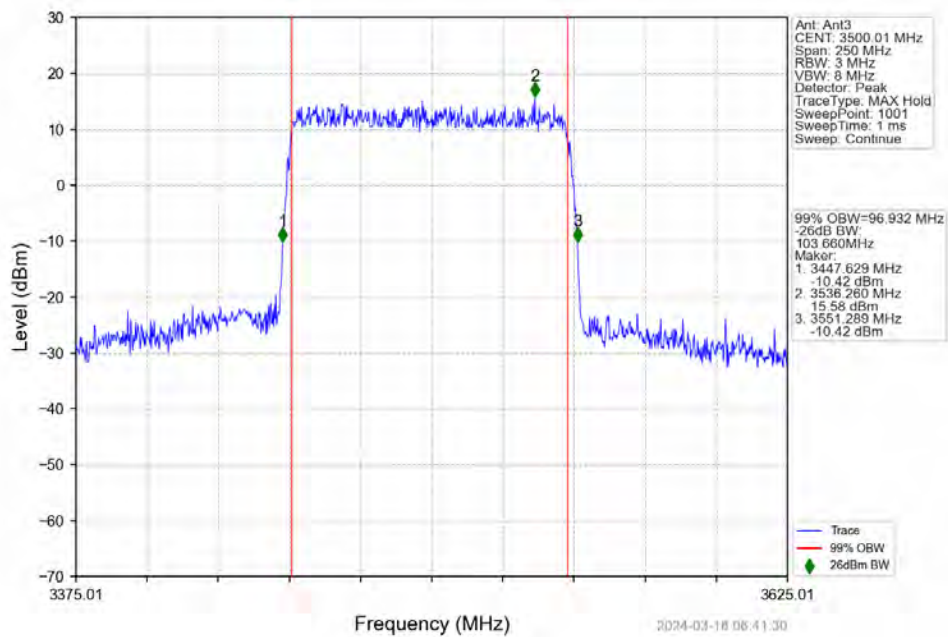
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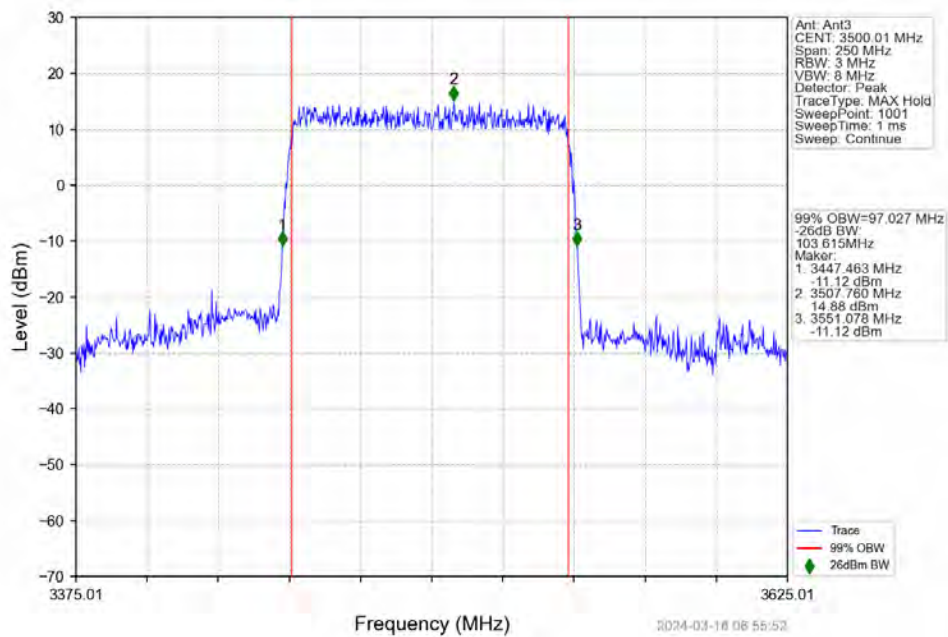
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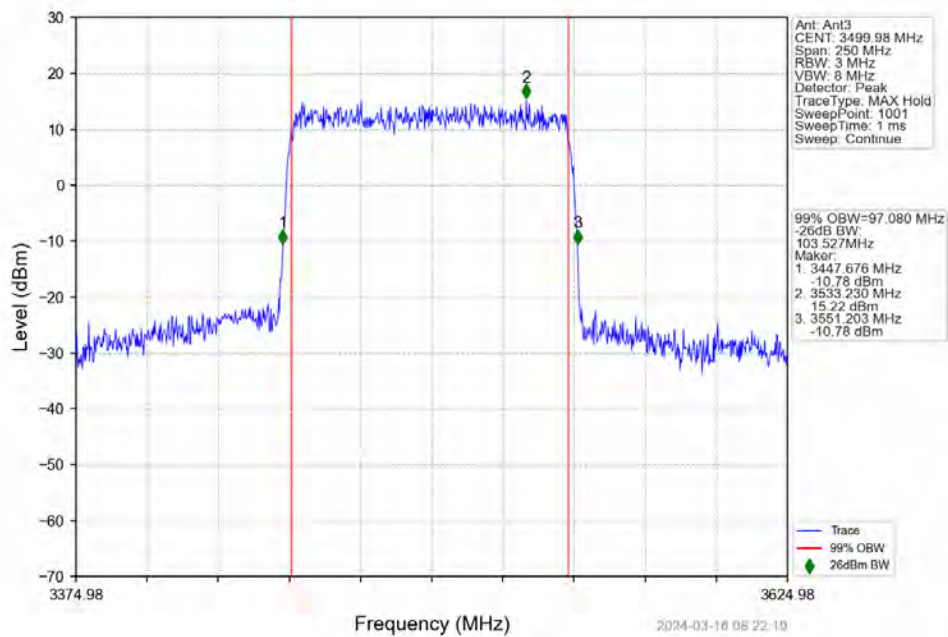
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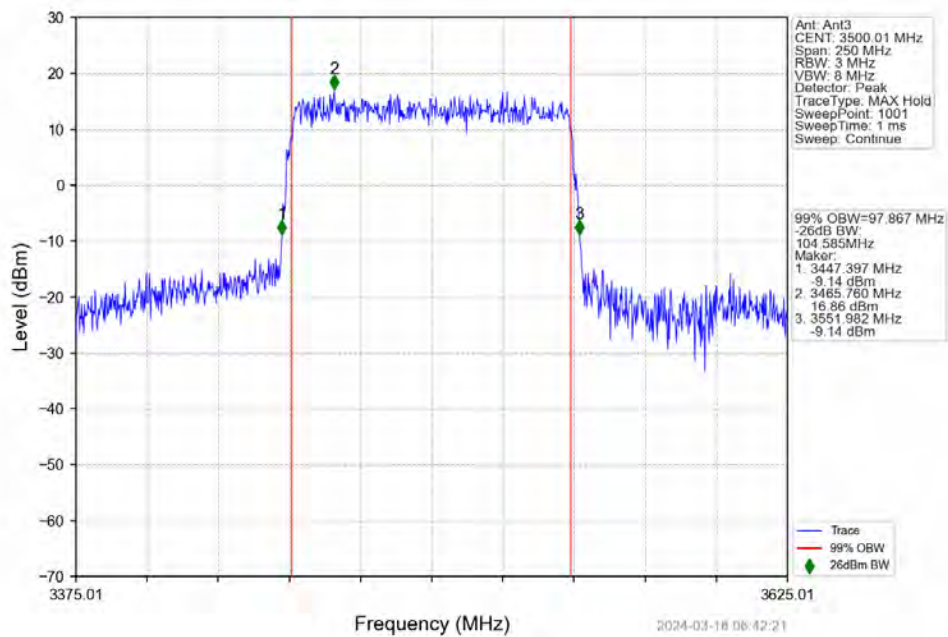
n78e 30kHz SISO NTN 100MHz DFT-s-OFDM 256 QAM 3500.01MHz Outer Full



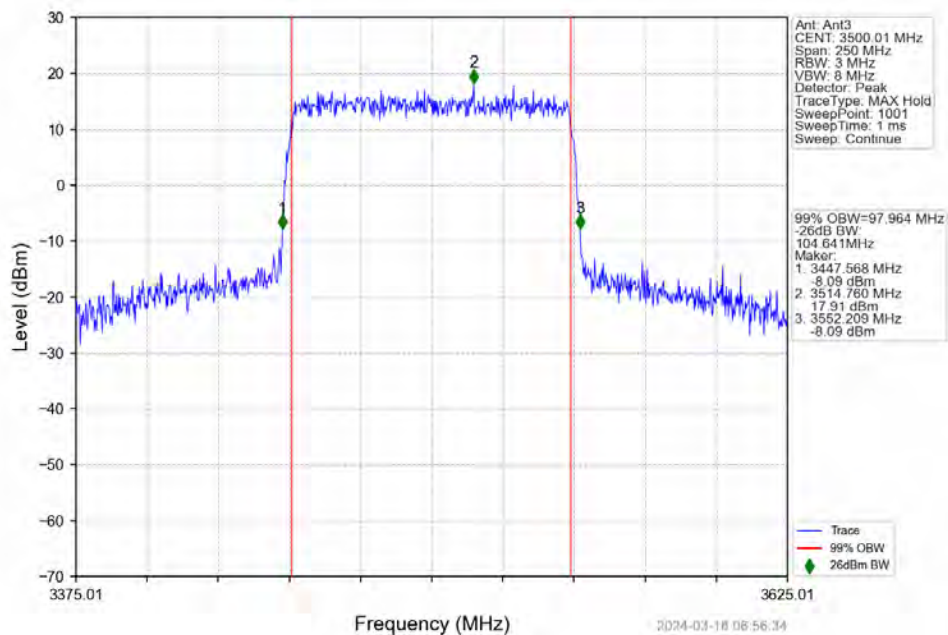
n78e 30kHz SISO NTN 100MHz DFT-s-OFDM 256 QAM 3499.98MHz Outer Full



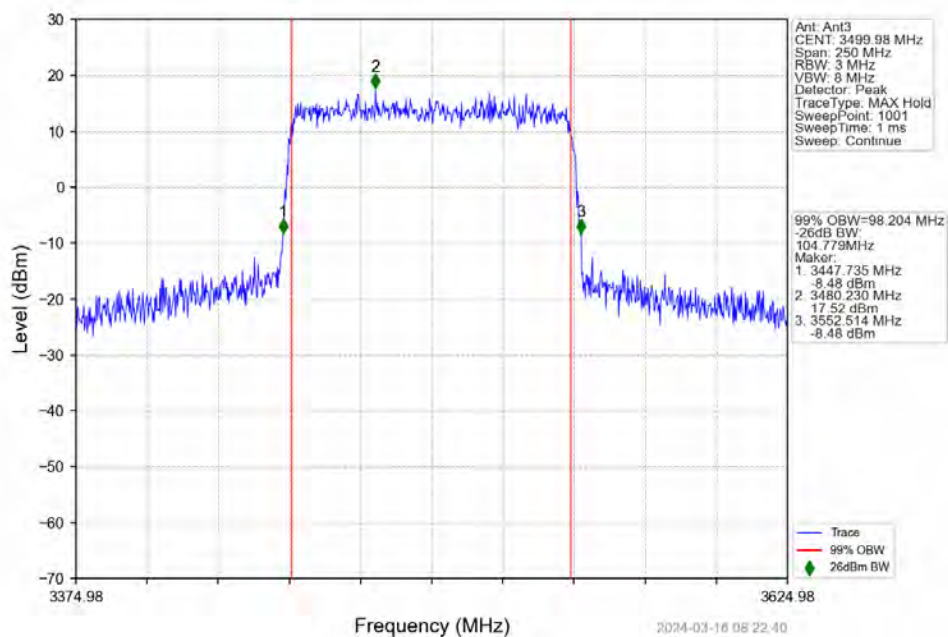
n78e 30kHz SISO NTN 100MHz CP-OFDM QPSK 3500.01MHz Outer Full



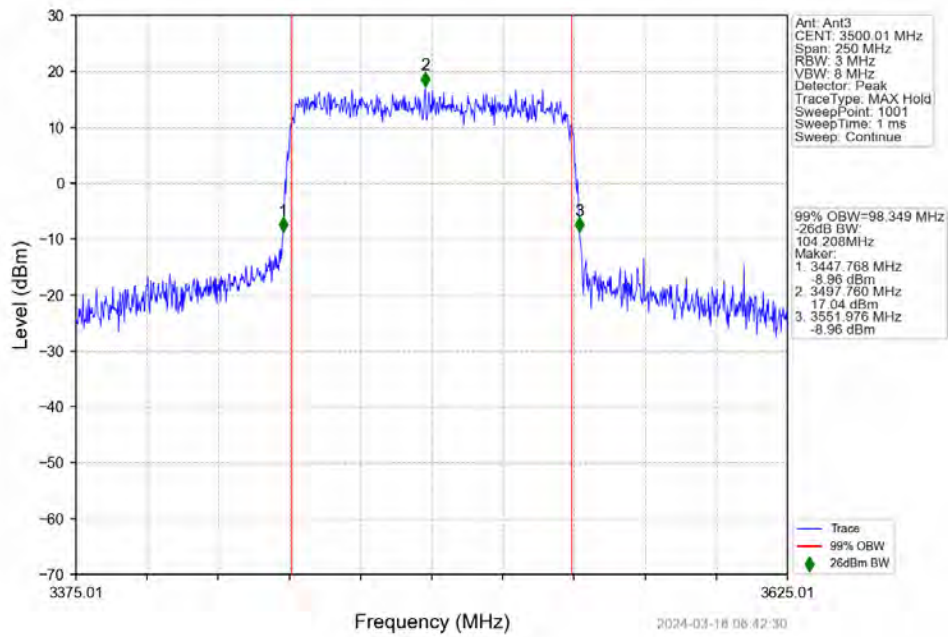
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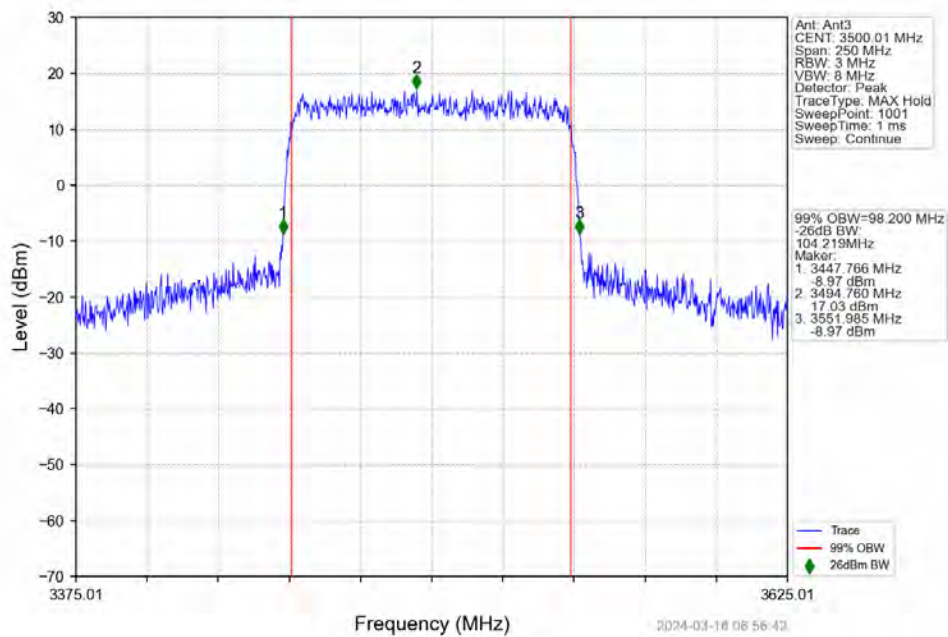
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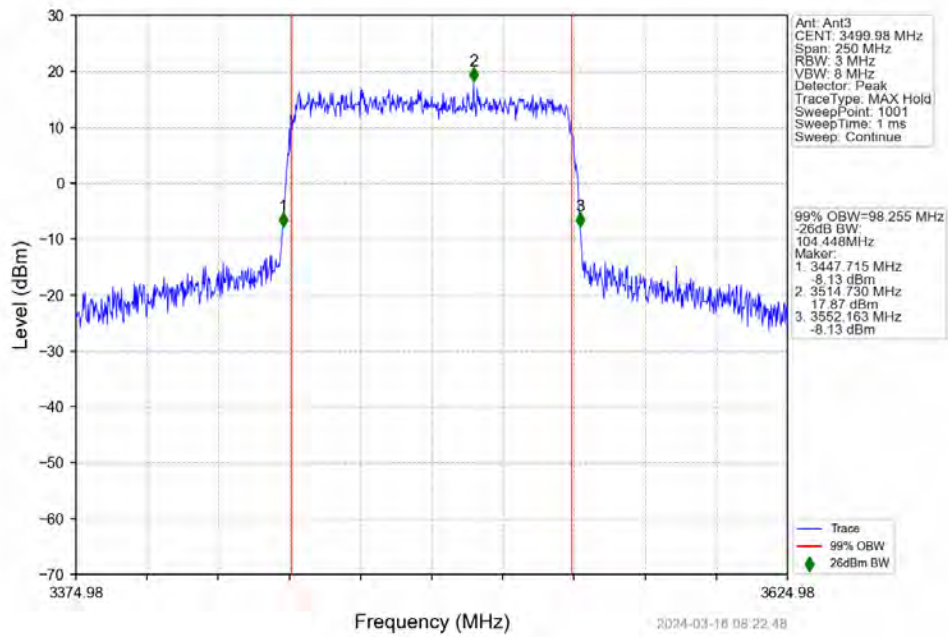
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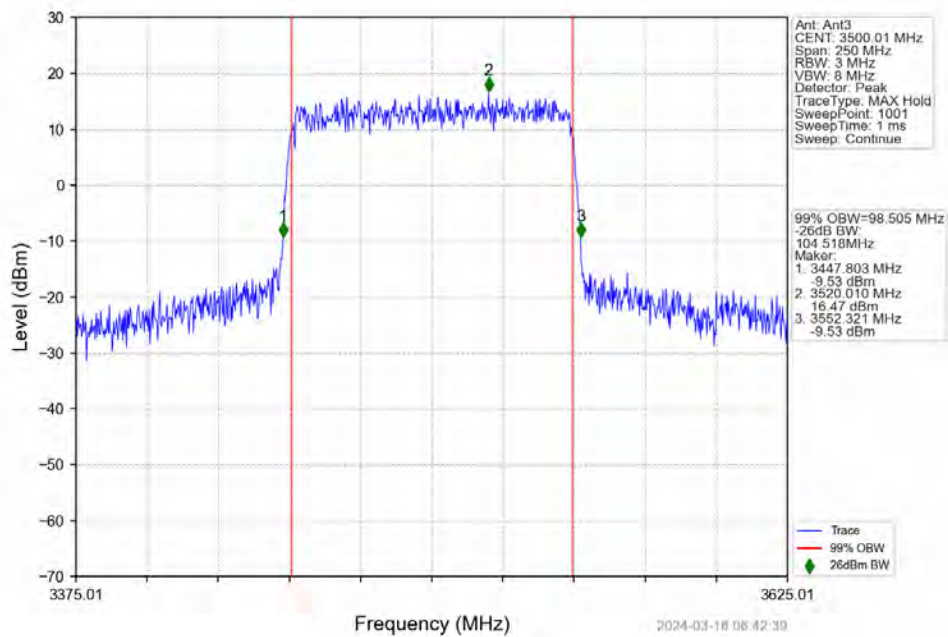
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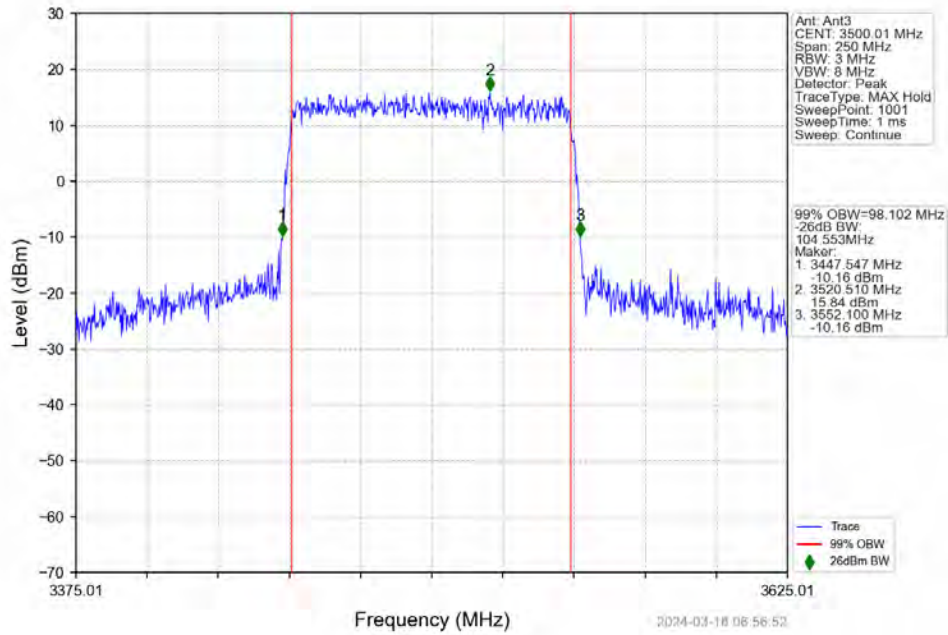
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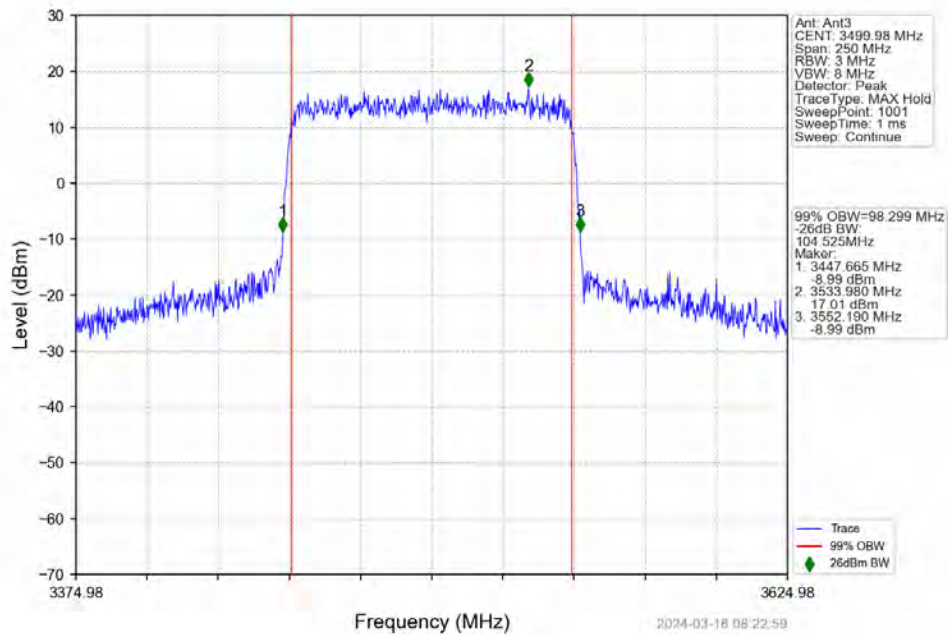
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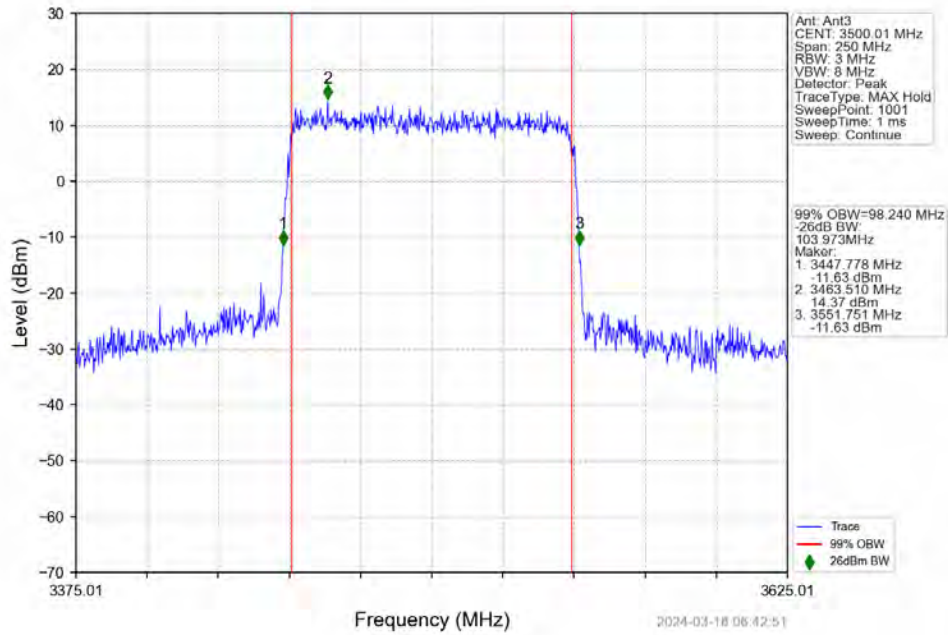
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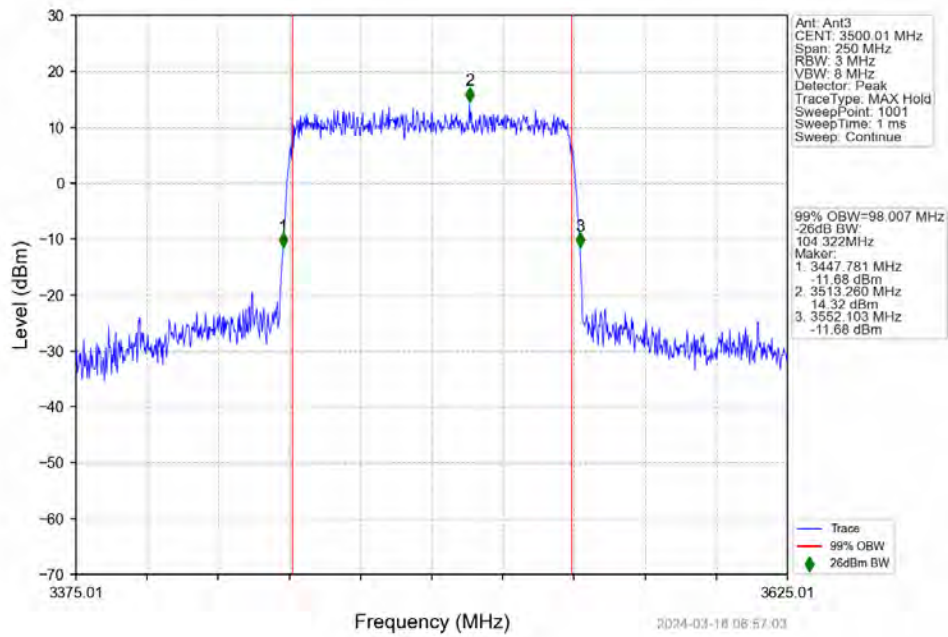
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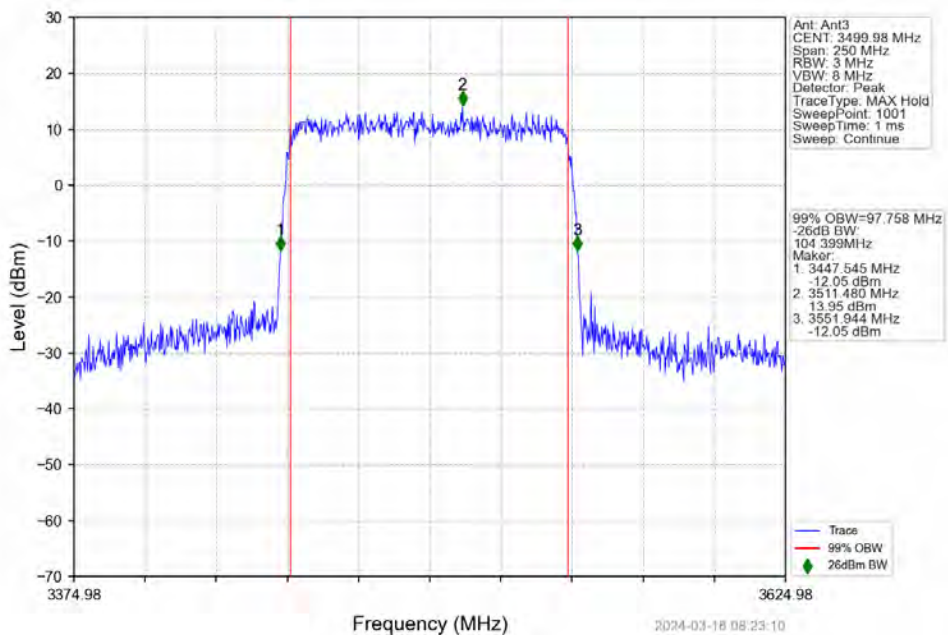


n78e 30kHz SISO NTN 100MHz CP-OFDM 256 QAM 3500.01MHz Outer Full



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





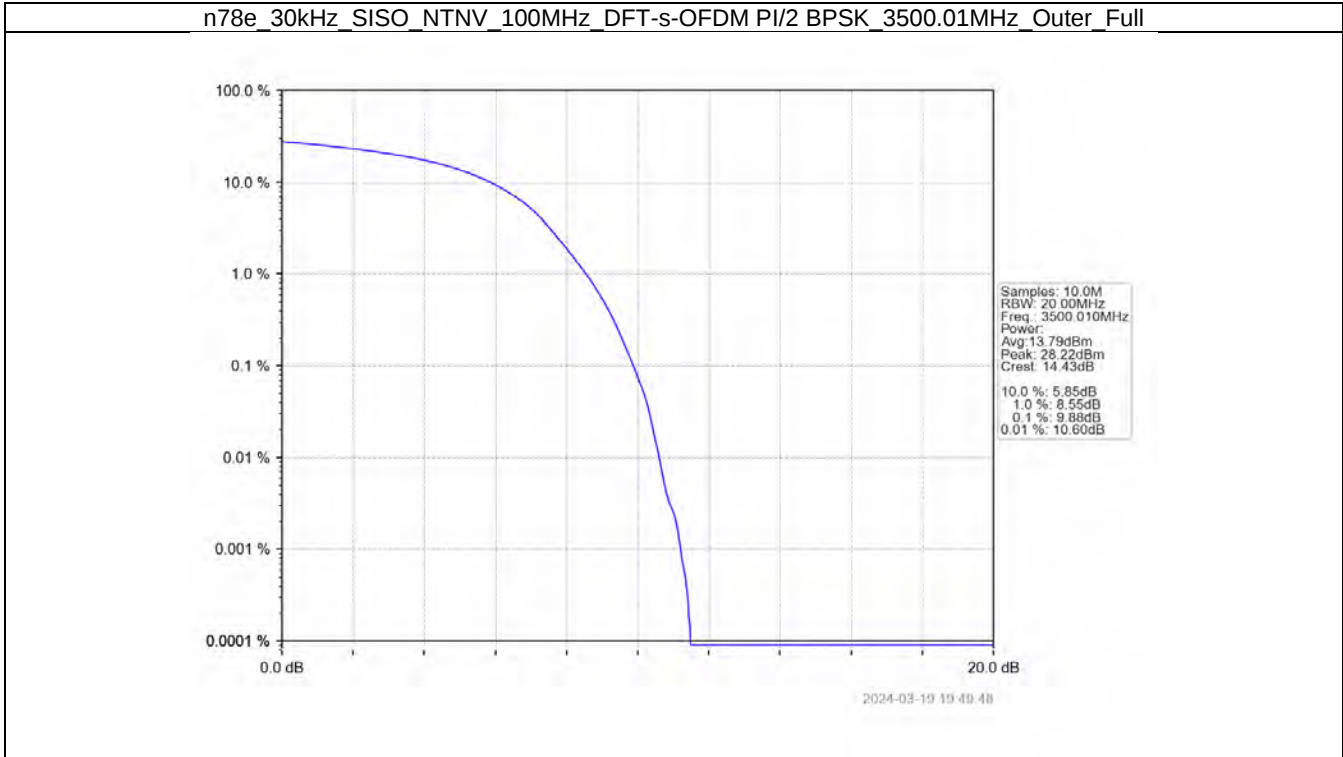
4. Peak-Average Ratio

4.1 30k_SISO_100MHz_NTNV

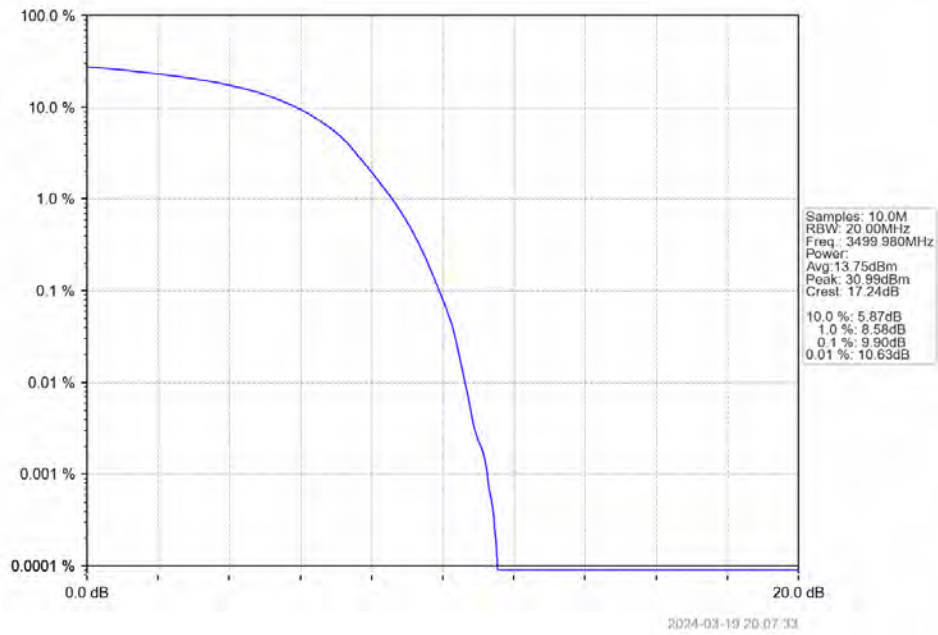
4.1.1 Test Result

5G NR n78e SCS=30kHz SISO 100MHz NTV							
Modulation	Frequency (MHz)	RB Allocation	Peak-Average Ratio (dB)				Verdict
			Ant7	Ant2	Sum	Limit	
DFT-s-OFDM PI/2 BPSK	3500.01	Outer_Full	9.88	/	/	<=13	Pass
	3500.01	Outer_Full	9.95	/	/	<=13	Pass
	3499.98	Outer_Full	9.90	/	/	<=13	Pass
DFT-s-OFDM QPSK	3500.01	Outer_Full	10.44	/	/	<=13	Pass
	3500.01	Outer_Full	10.91	/	/	<=13	Pass
	3499.98	Outer_Full	10.74	/	/	<=13	Pass
DFT-s-OFDM 16 QAM	3500.01	Outer_Full	11.15	/	/	<=13	Pass
	3500.01	Outer_Full	11.19	/	/	<=13	Pass
	3499.98	Outer_Full	11.10	/	/	<=13	Pass
DFT-s-OFDM 64 QAM	3500.01	Outer_Full	10.76	/	/	<=13	Pass
	3500.01	Outer_Full	11.11	/	/	<=13	Pass
	3499.98	Outer_Full	11.44	/	/	<=13	Pass
DFT-s-OFDM 256 QAM	3500.01	Outer_Full	11.04	/	/	<=13	Pass
	3500.01	Outer_Full	11.15	/	/	<=13	Pass
	3499.98	Outer_Full	11.21	/	/	<=13	Pass
CP-OFDM QPSK	3500.01	Outer_Full	11.57	/	/	<=13	Pass
	3500.01	Outer_Full	11.37	/	/	<=13	Pass
	3499.98	Outer_Full	11.46	/	/	<=13	Pass
CP-OFDM 16 QAM	3500.01	Outer_Full	11.43	/	/	<=13	Pass
	3500.01	Outer_Full	11.52	/	/	<=13	Pass
	3499.98	Outer_Full	11.46	/	/	<=13	Pass
CP-OFDM 64 QAM	3500.01	Outer_Full	11.57	/	/	<=13	Pass
	3500.01	Outer_Full	11.58	/	/	<=13	Pass
	3499.98	Outer_Full	11.66	/	/	<=13	Pass
CP-OFDM 256 QAM	3500.01	Outer_Full	11.99	/	/	<=13	Pass
	3500.01	Outer_Full	11.87	/	/	<=13	Pass
	3499.98	Outer_Full	12.05	/	/	<=13	Pass

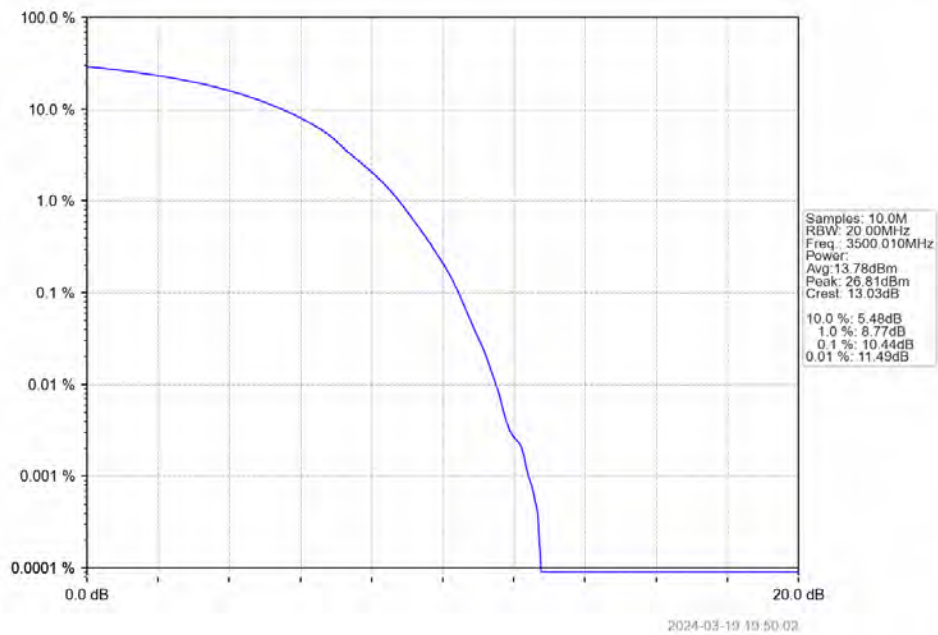
4.1.2 Test Graph



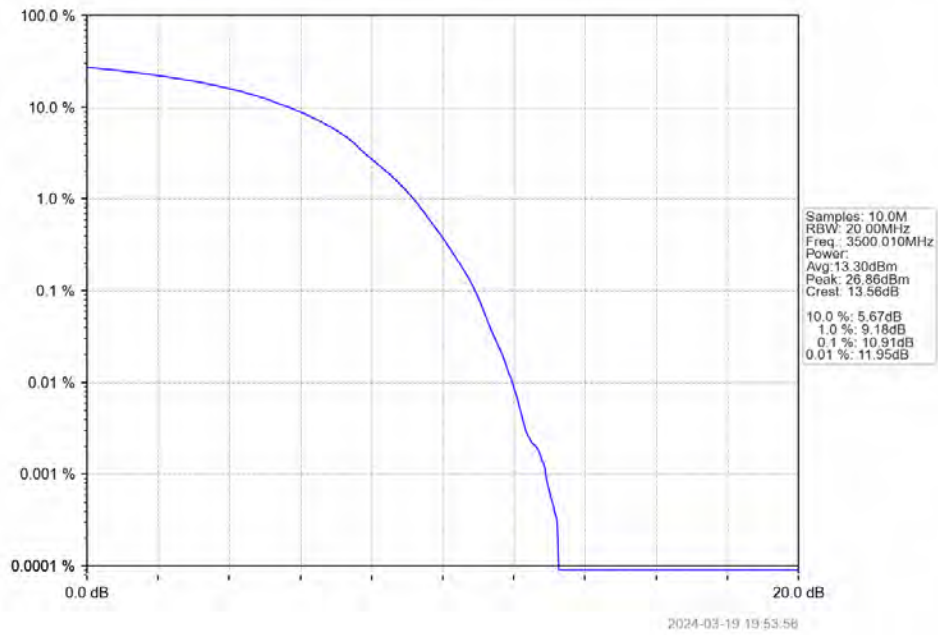
n78e 30kHz SISO NTN 100MHz DFT-s-OFDM PI/2 BPSK 3499.98MHz Outer Full



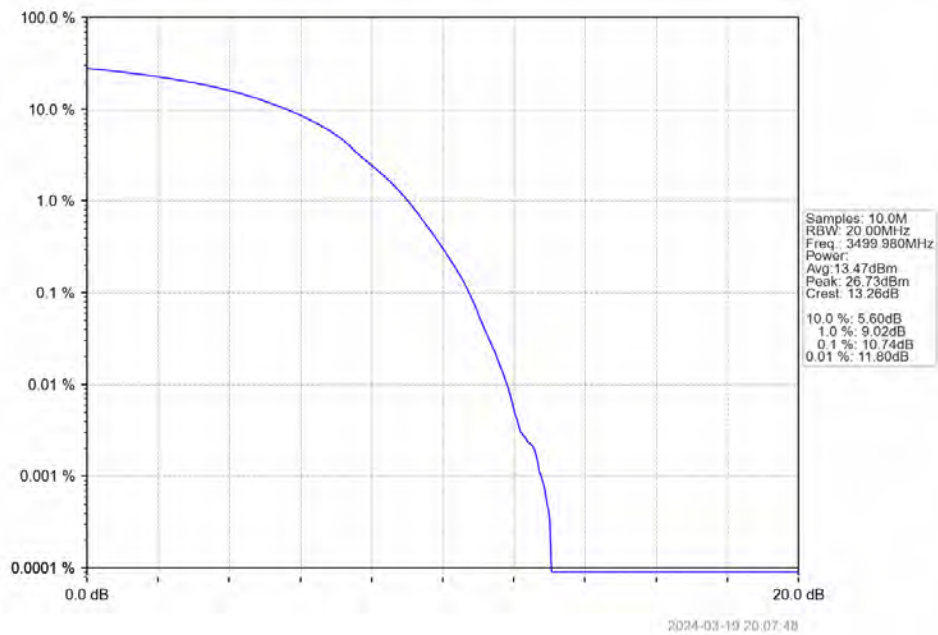
n78e 30kHz SISO NTN 100MHz DFT-s-OFDM QPSK 3500.01MHz Outer Full



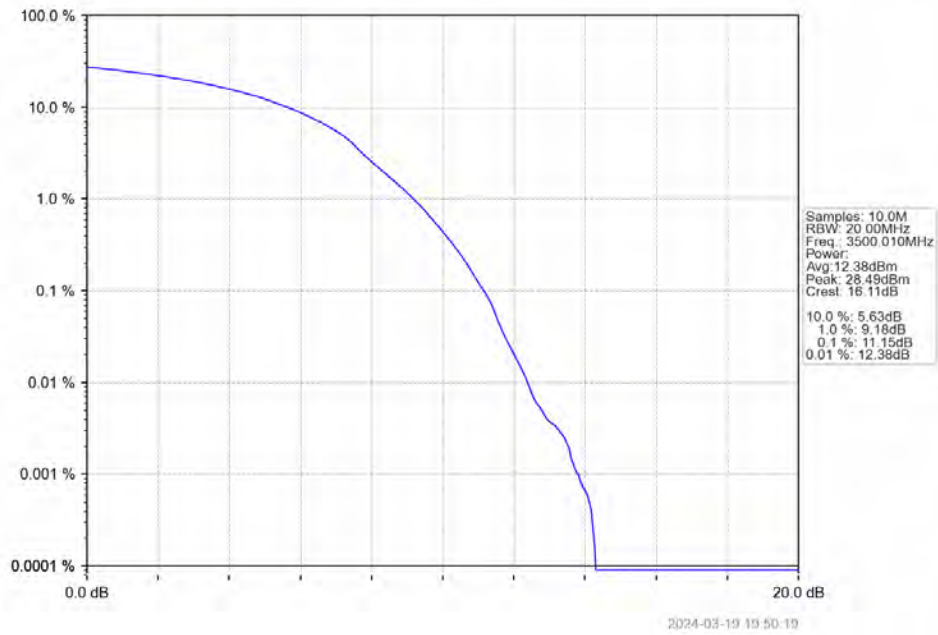
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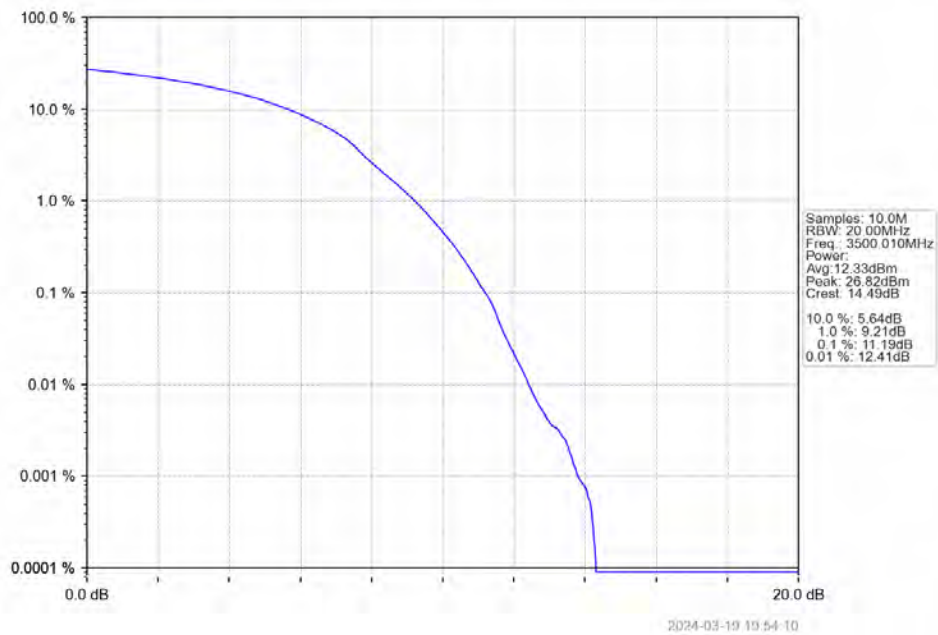
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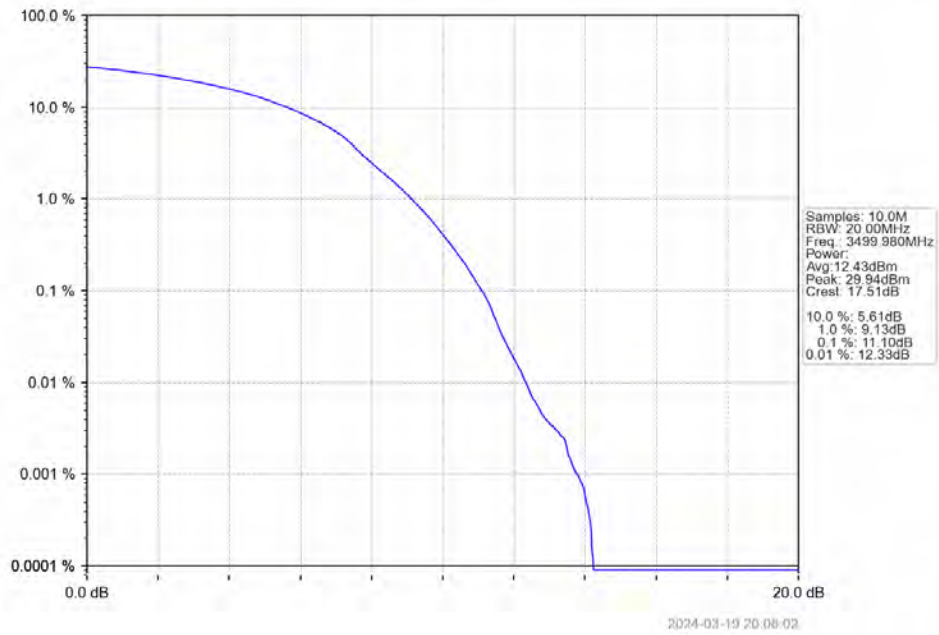
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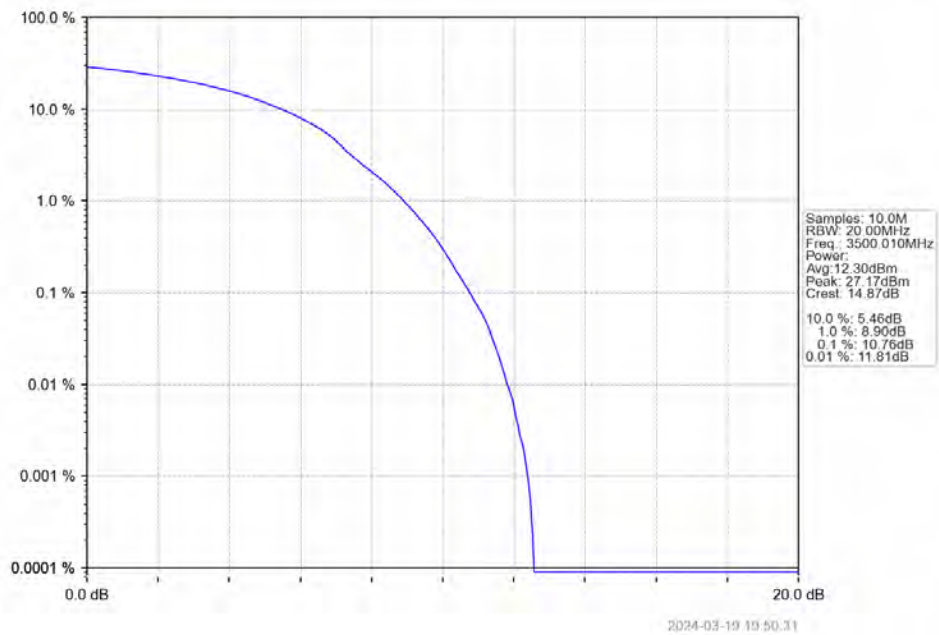
n78e 30kHz SISO NTN 100MHz DFT-s-OFDM 16 QAM 3500.01MHz Outer Full



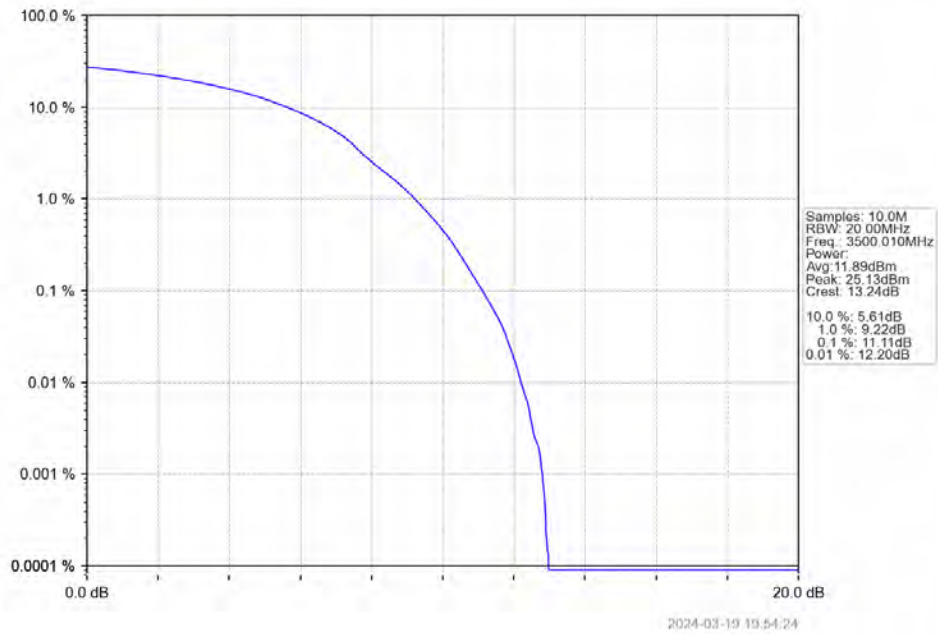
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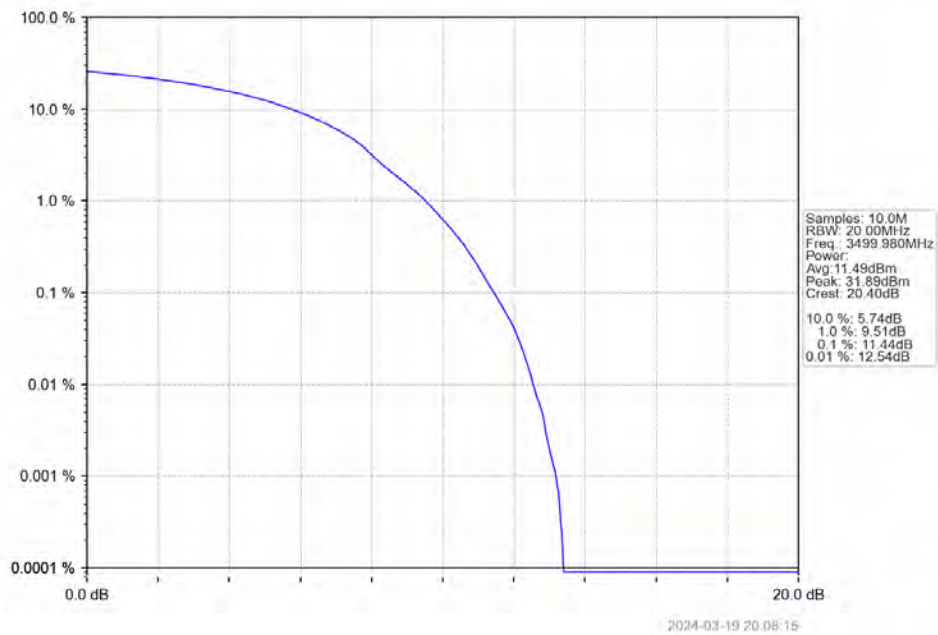
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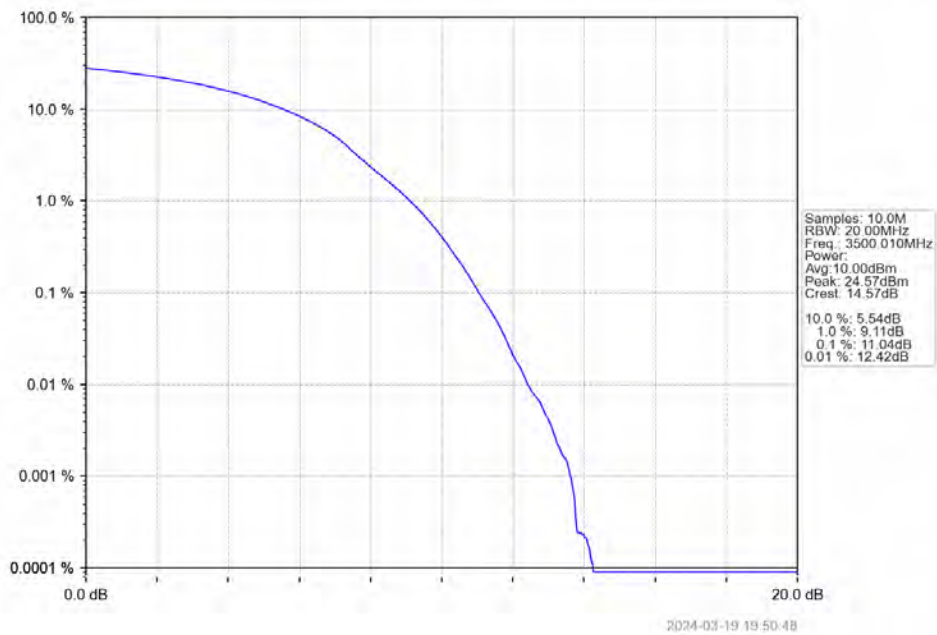
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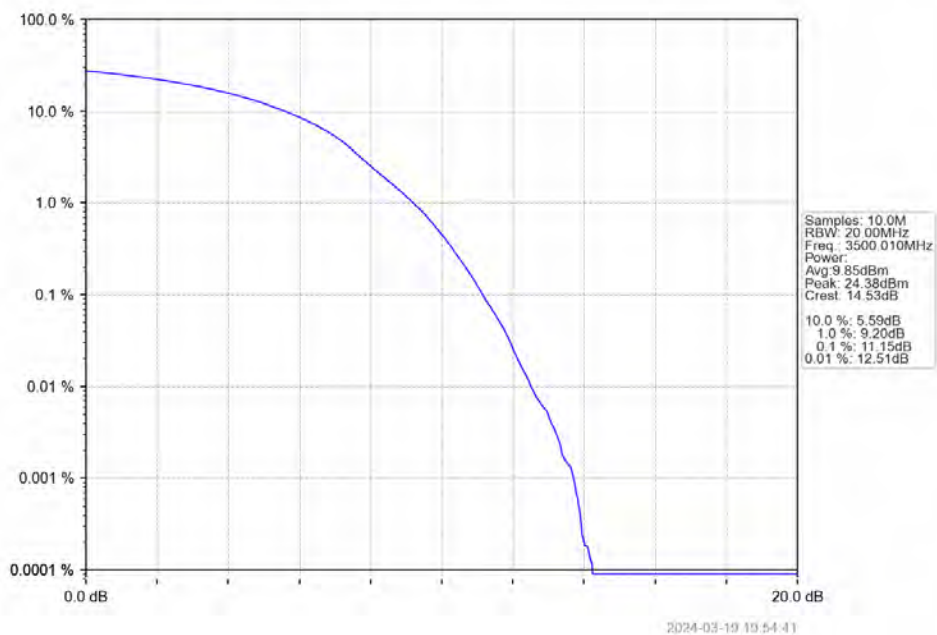
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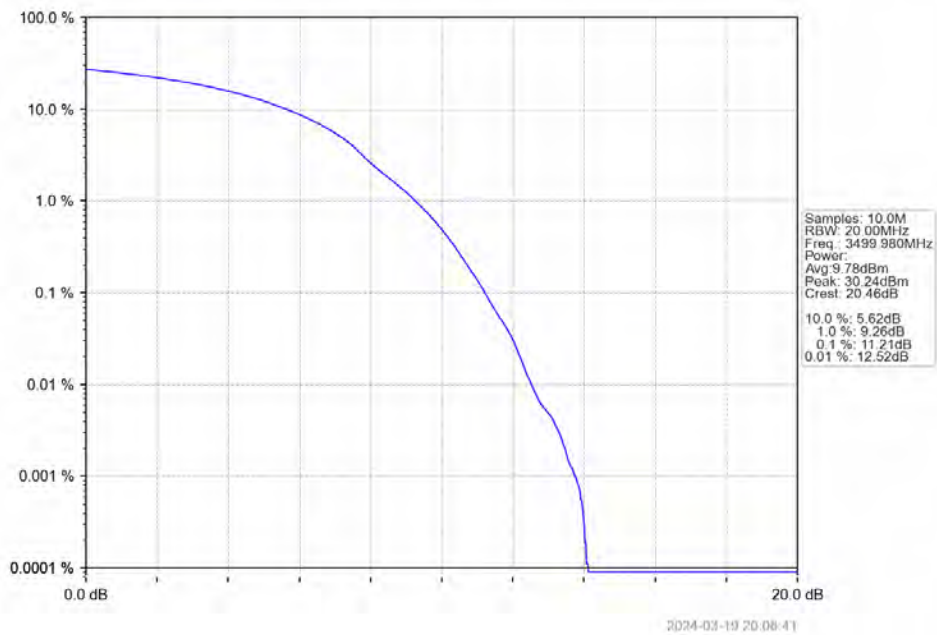
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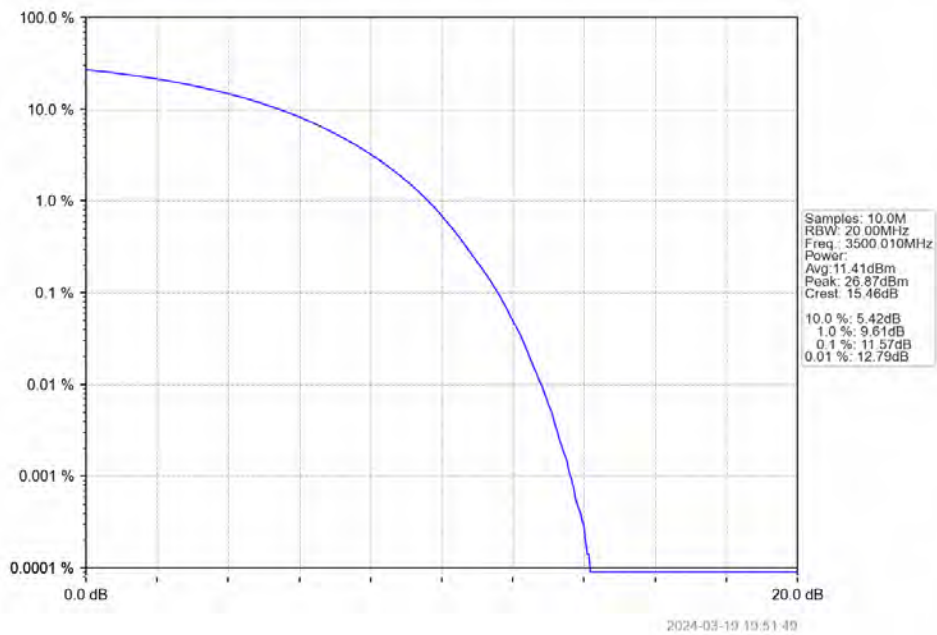
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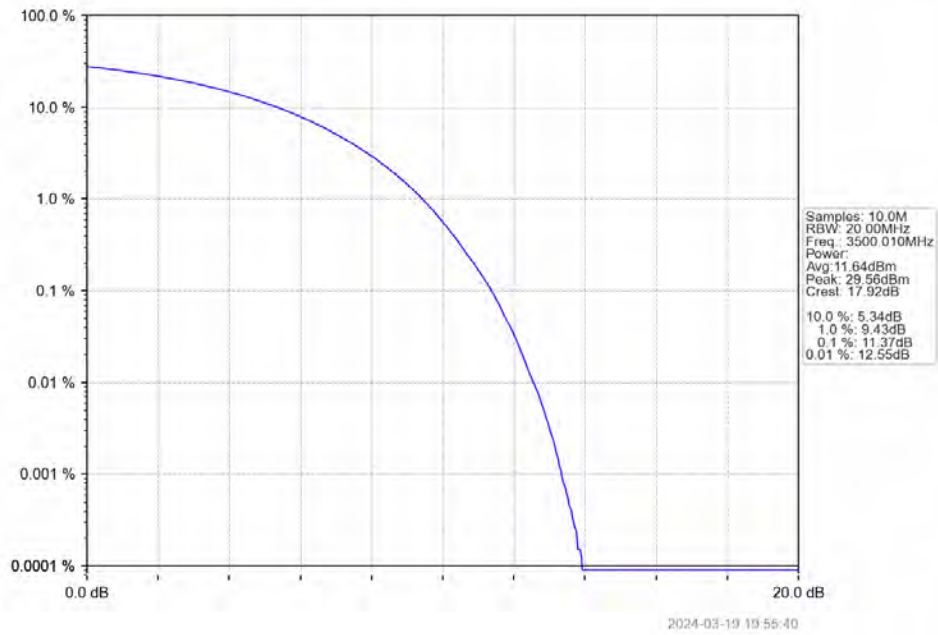
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n78e 30kHz SISO NTN 100MHz CP-OFDM QPSK 3500.01MHz Outer Full



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



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

