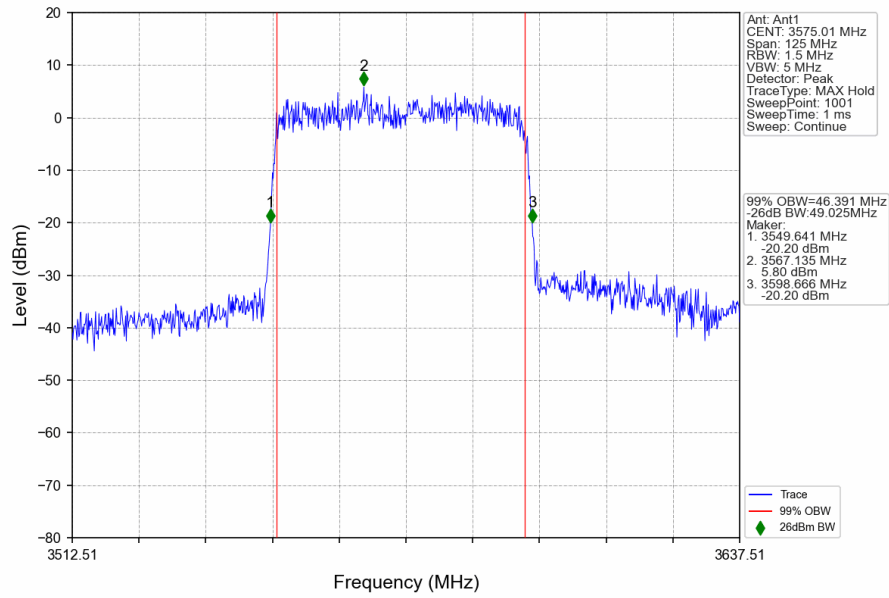
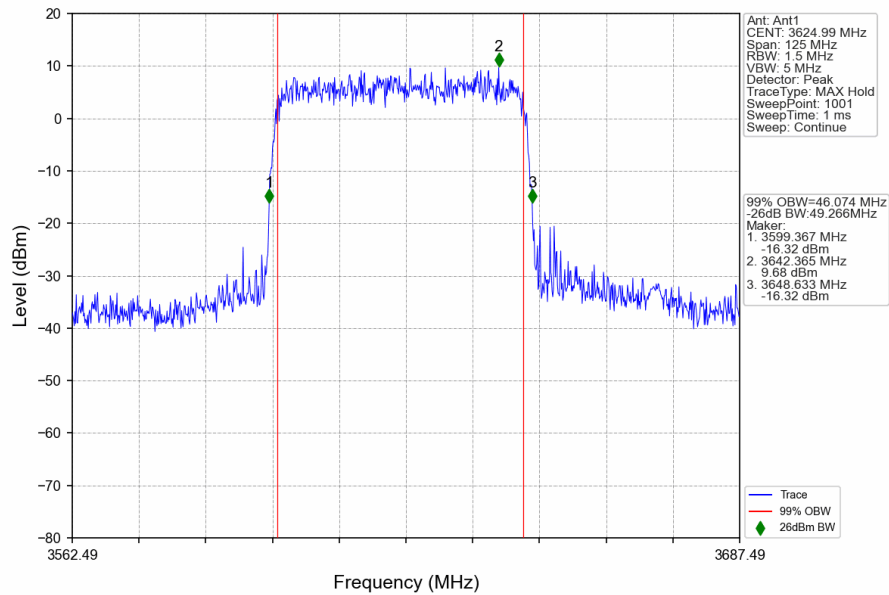


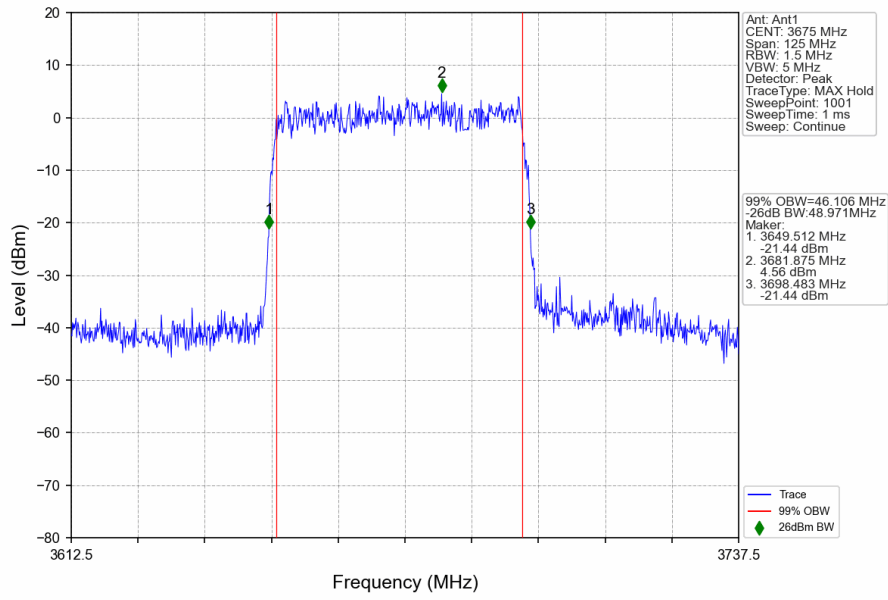
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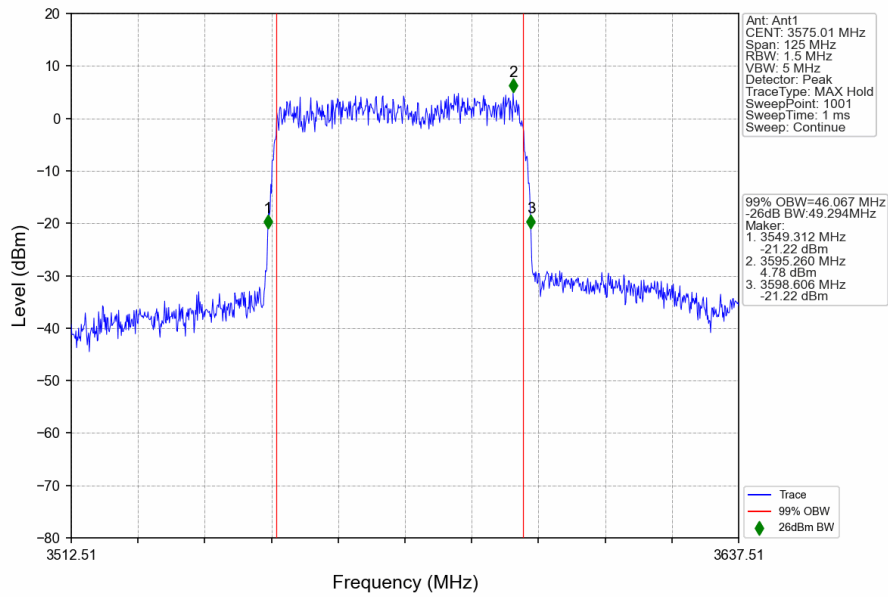
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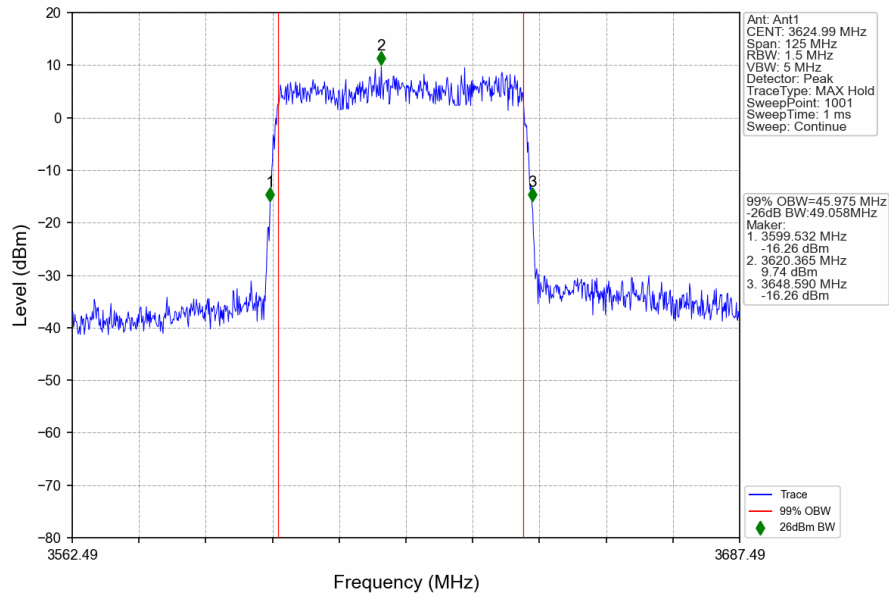
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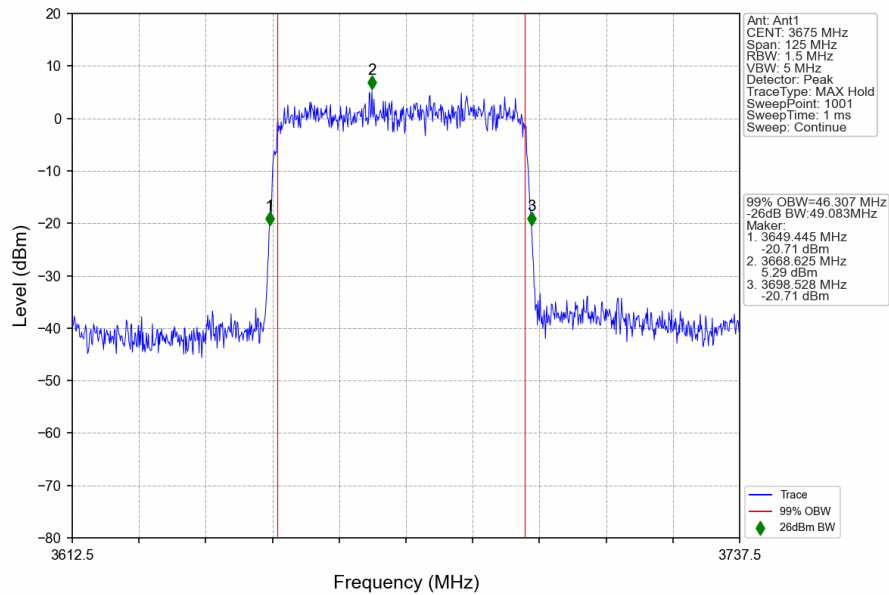
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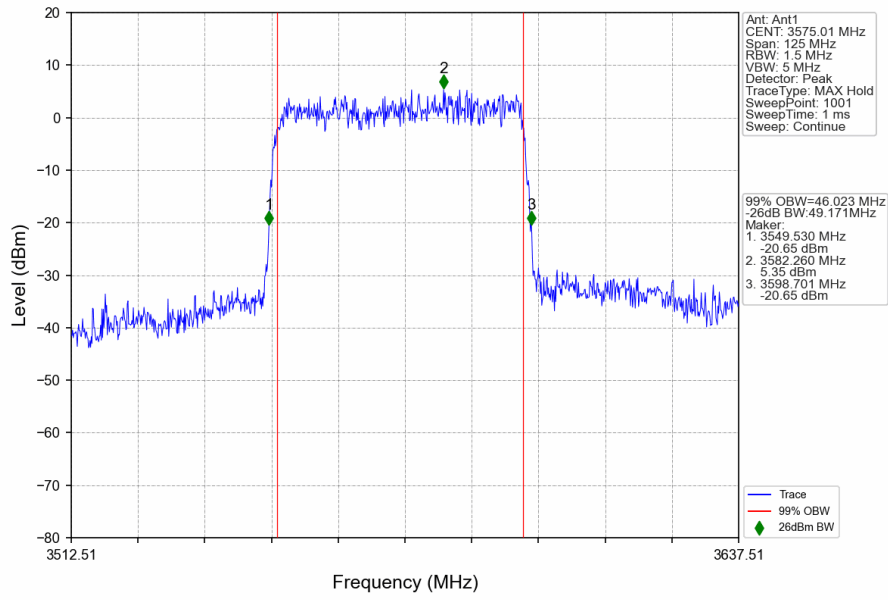
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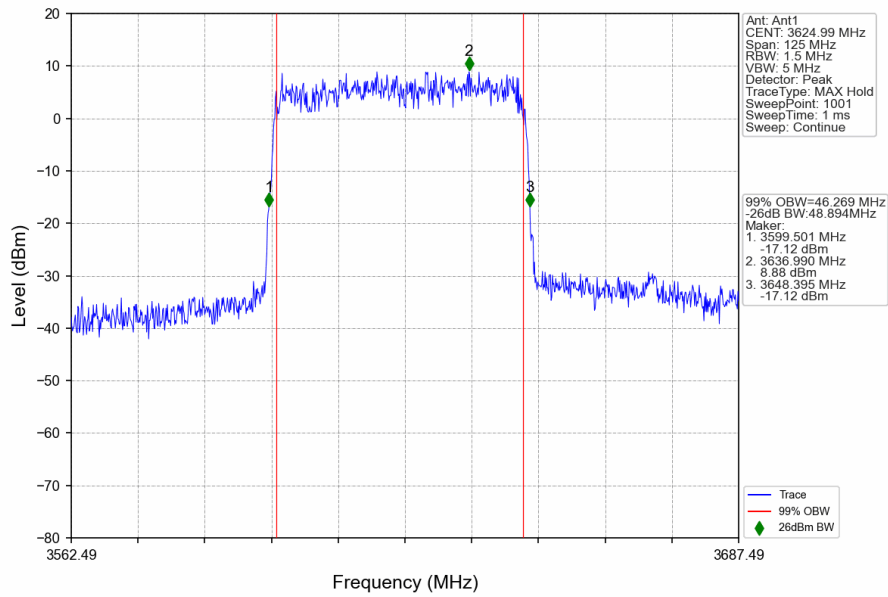
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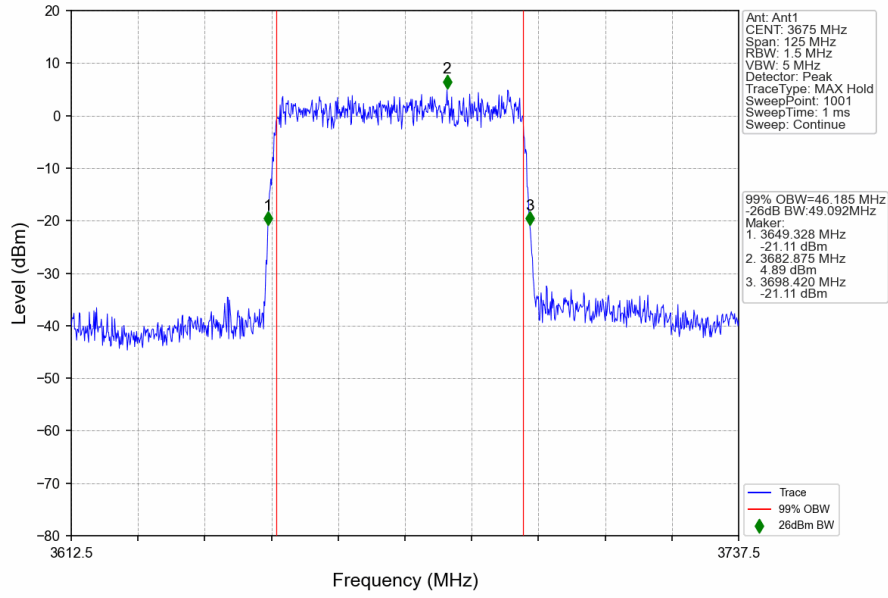
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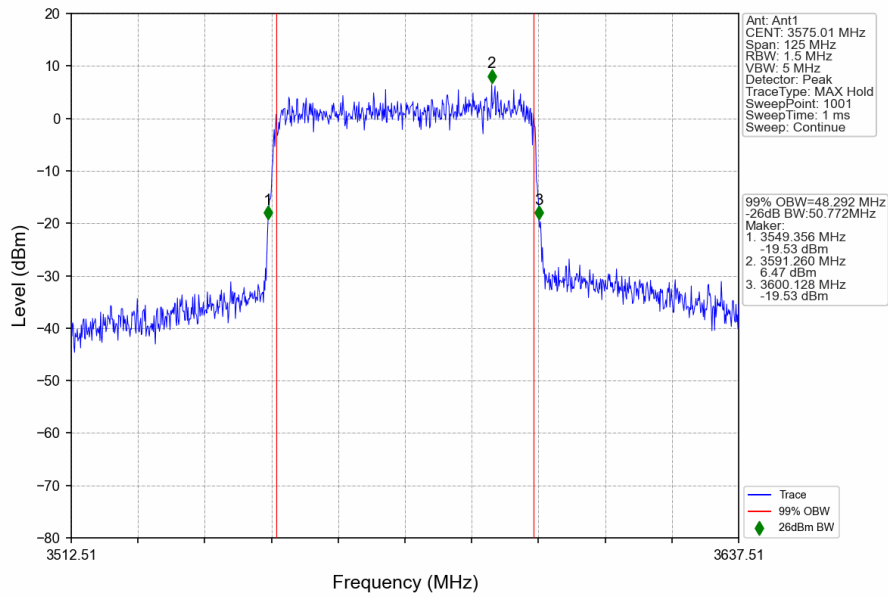
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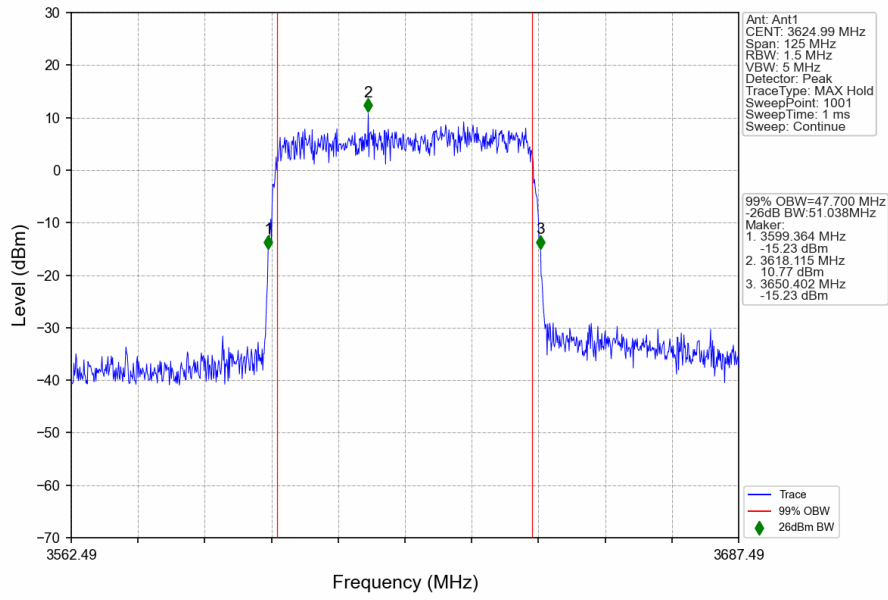
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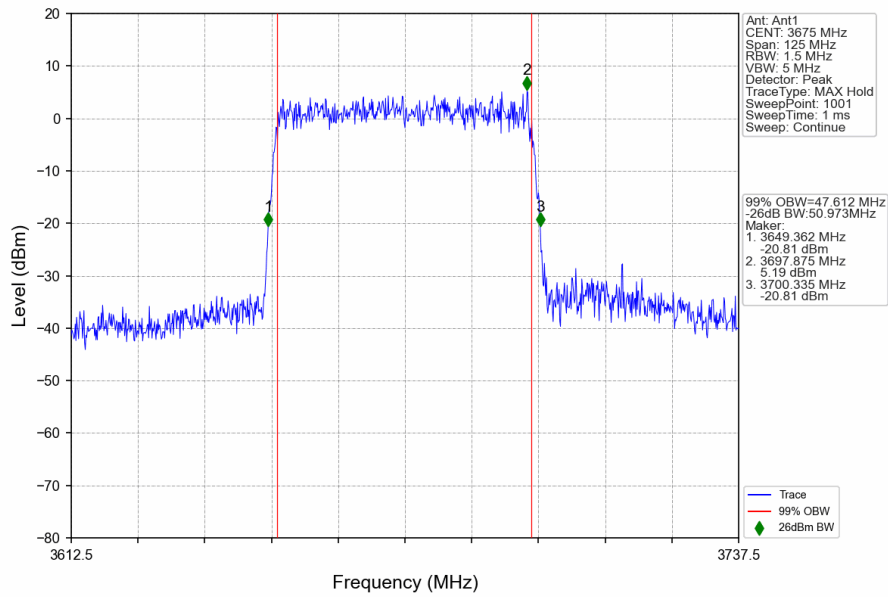
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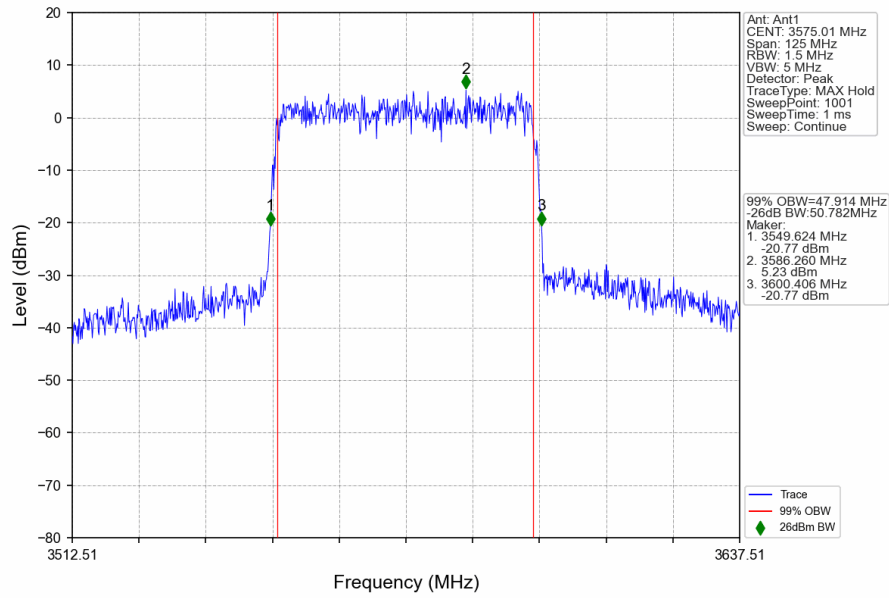
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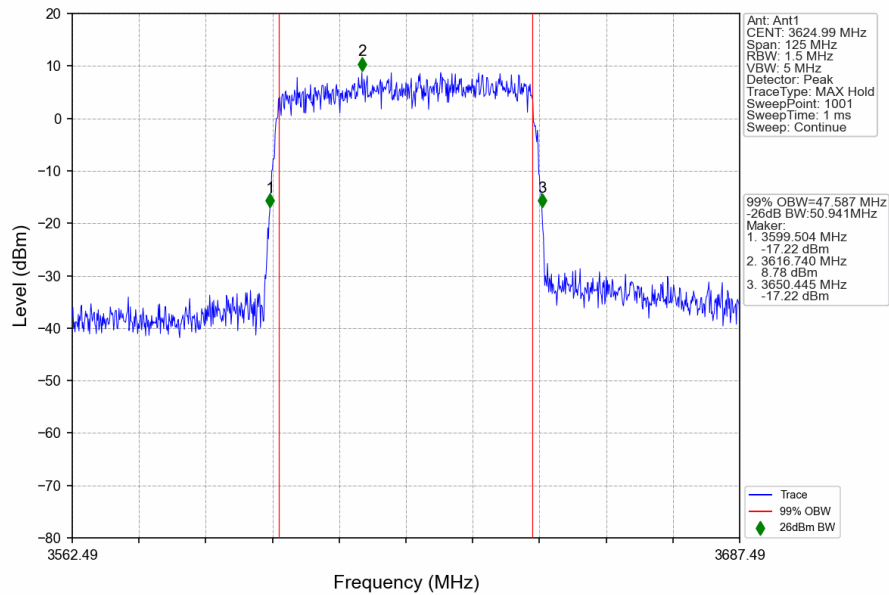
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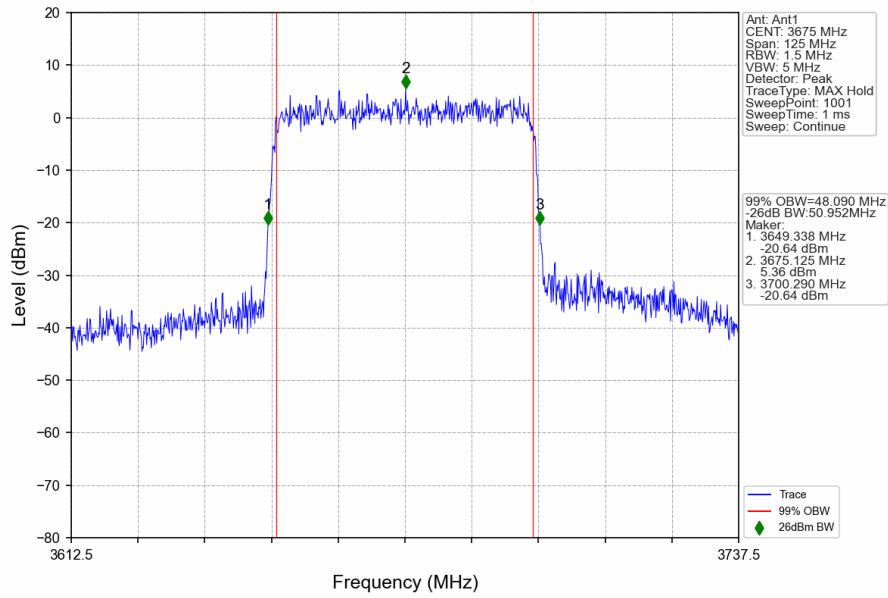
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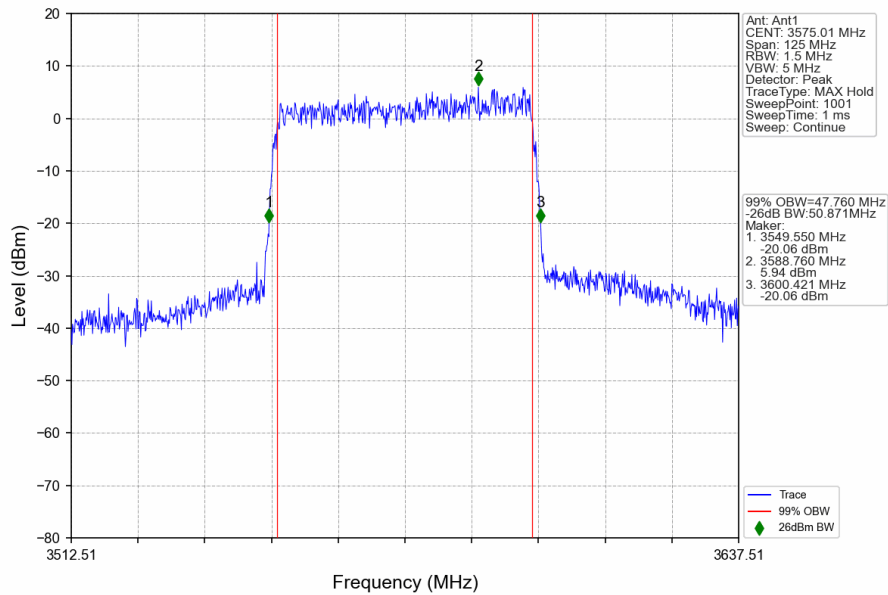
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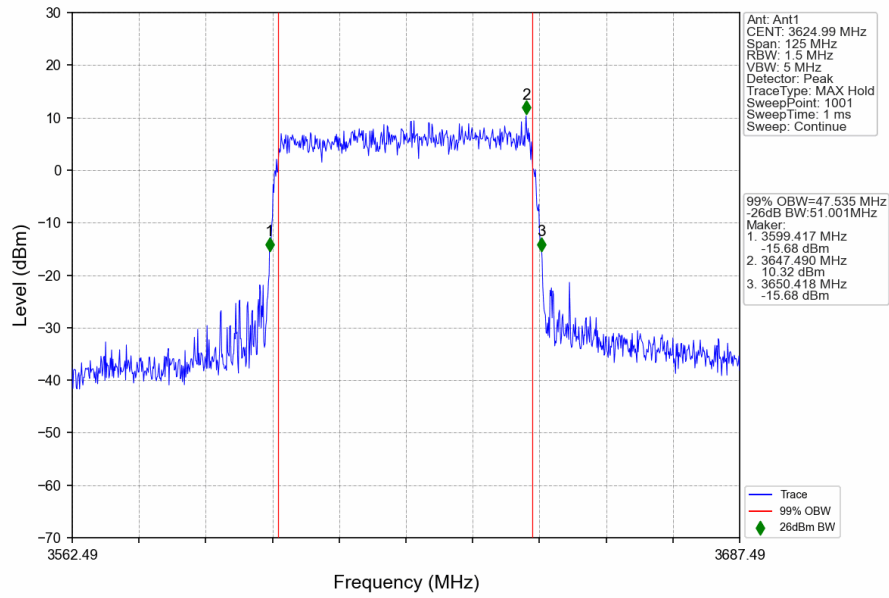
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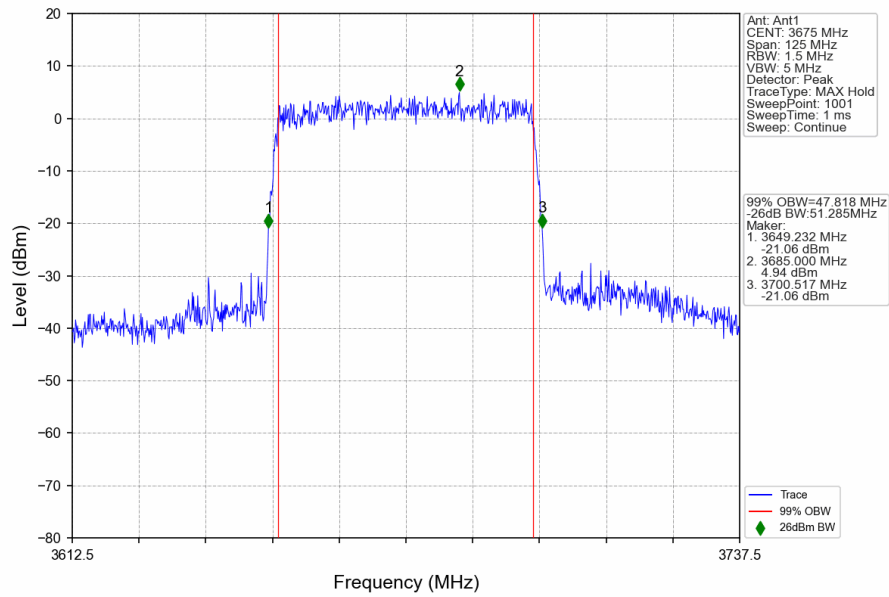
n78d_30kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_3575.01MHz_Outer_Full



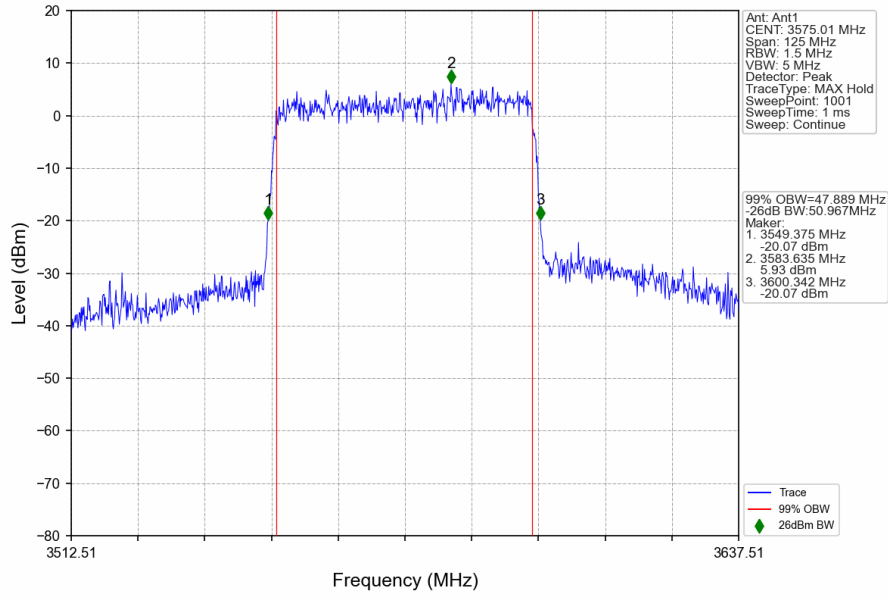
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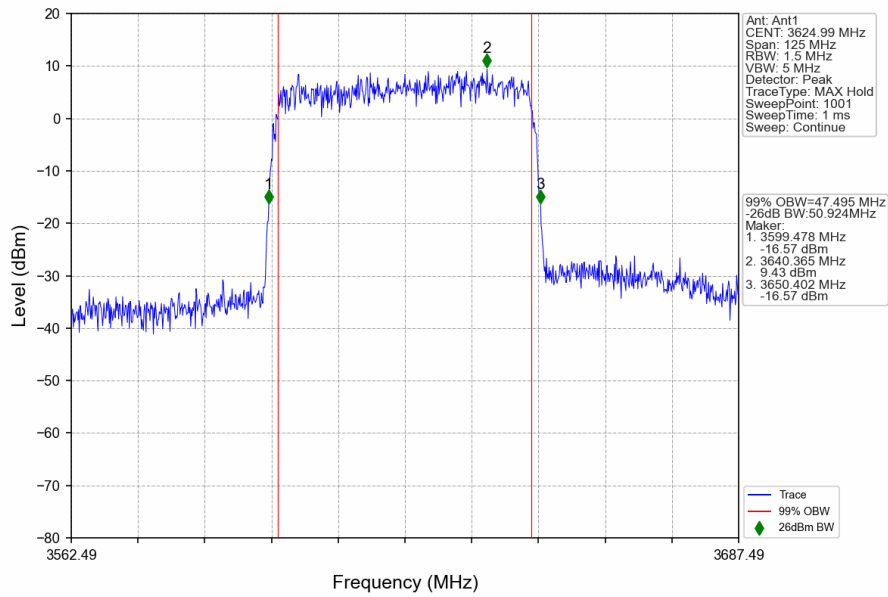
n78d_30kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_3675MHz_Outer_Full



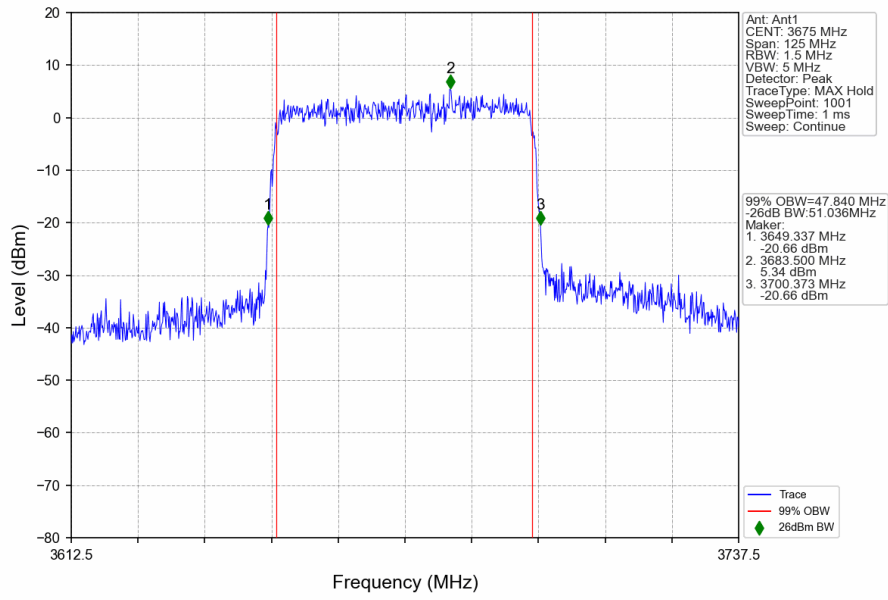
n78d_30kHz_SISO_NTNV_50MHz_CP-OFDM 256 QAM_3575.01MHz_Outer_Full



n78d_30kHz_SISO_NTNV_50MHz_CP-OFDM 256 QAM_3624.99MHz_Outer_Full



n78d_30kHz_SISO_NTNV_50MHz_CP-OFDM 256 QAM_3675MHz_Outer_Full

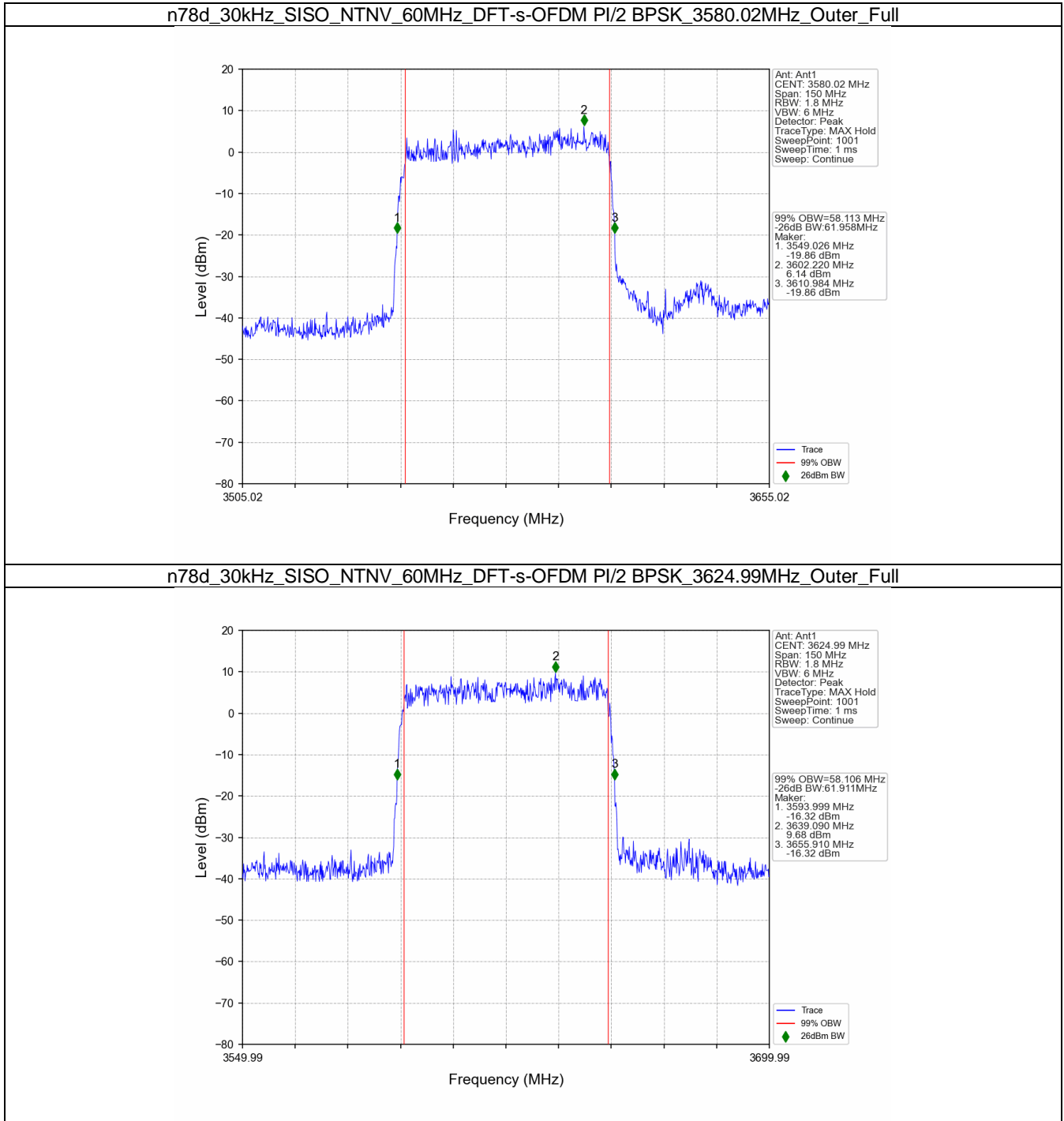


1.5 30k_SISO_60MHz_NTNV

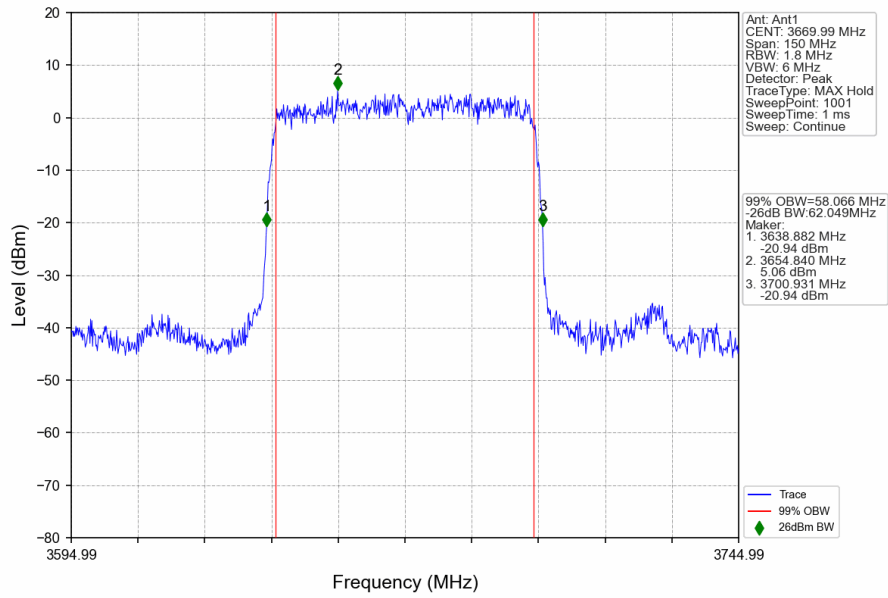
1.5.1 Test Result

5G NR n78d 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	3580.02	Outer_Full	58.11	61.96	/	Pass
	3624.99	Outer_Full	58.11	61.91	/	Pass
	3669.99	Outer_Full	58.07	62.05	/	Pass
DFT-s-OFDM QPSK	3580.02	Outer_Full	58.49	62.08	/	Pass
	3624.99	Outer_Full	58.50	62.13	/	Pass
	3669.99	Outer_Full	58.18	62.32	/	Pass
DFT-s-OFDM 16 QAM	3580.02	Outer_Full	57.98	61.77	/	Pass
	3624.99	Outer_Full	58.38	61.82	/	Pass
	3669.99	Outer_Full	58.33	62.22	/	Pass
DFT-s-OFDM 64 QAM	3580.02	Outer_Full	58.41	61.95	/	Pass
	3624.99	Outer_Full	58.45	61.80	/	Pass
	3669.99	Outer_Full	58.35	61.95	/	Pass
DFT-s-OFDM 256 QAM	3580.02	Outer_Full	58.26	62.12	/	Pass
	3624.99	Outer_Full	57.92	62.26	/	Pass
	3669.99	Outer_Full	58.10	61.51	/	Pass
CP-OFDM QPSK	3580.02	Outer_Full	58.35	62.03	/	Pass
	3624.99	Outer_Full	58.07	61.89	/	Pass
	3669.99	Outer_Full	58.33	62.14	/	Pass
CP-OFDM 16 QAM	3580.02	Outer_Full	58.19	62.14	/	Pass
	3624.99	Outer_Full	58.23	61.93	/	Pass
	3669.99	Outer_Full	58.23	62.03	/	Pass
CP-OFDM 64 QAM	3580.02	Outer_Full	58.40	62.04	/	Pass
	3624.99	Outer_Full	58.38	61.71	/	Pass
	3669.99	Outer_Full	58.07	61.95	/	Pass
CP-OFDM 256 QAM	3580.02	Outer_Full	58.61	62.22	/	Pass
	3624.99	Outer_Full	58.33	62.05	/	Pass
	3669.99	Outer_Full	58.11	61.78	/	Pass

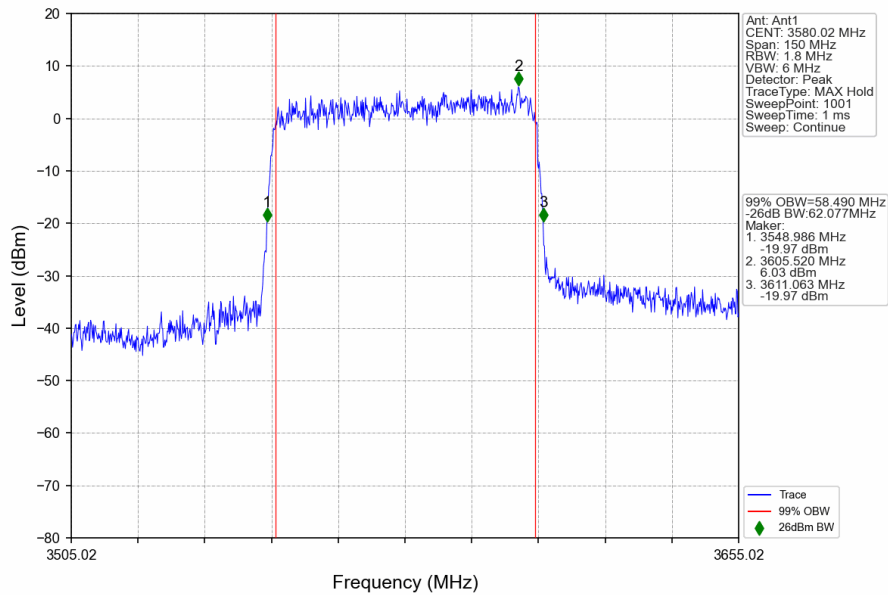
1.5.2 Test Graph



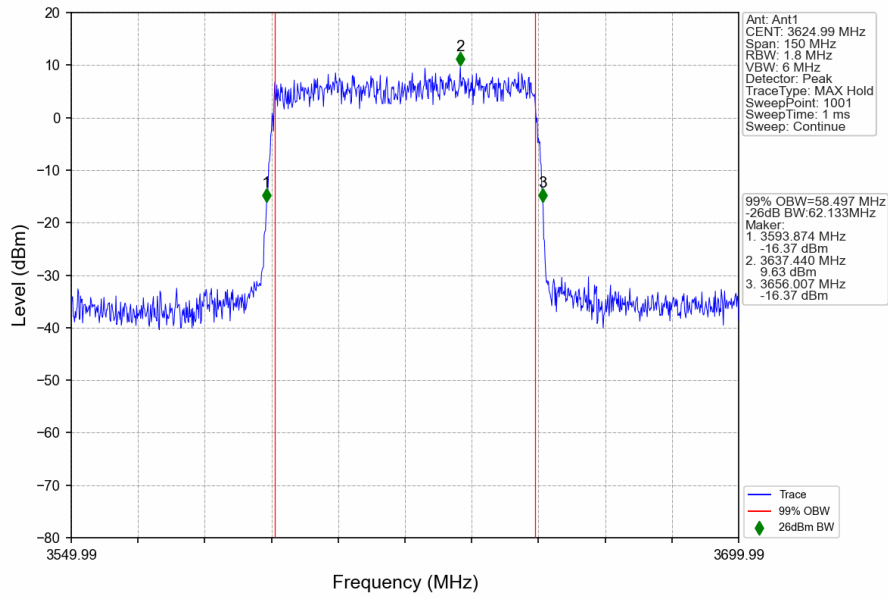
n78d_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM PI/2 BPSK_3669.99MHz_Outer_Full



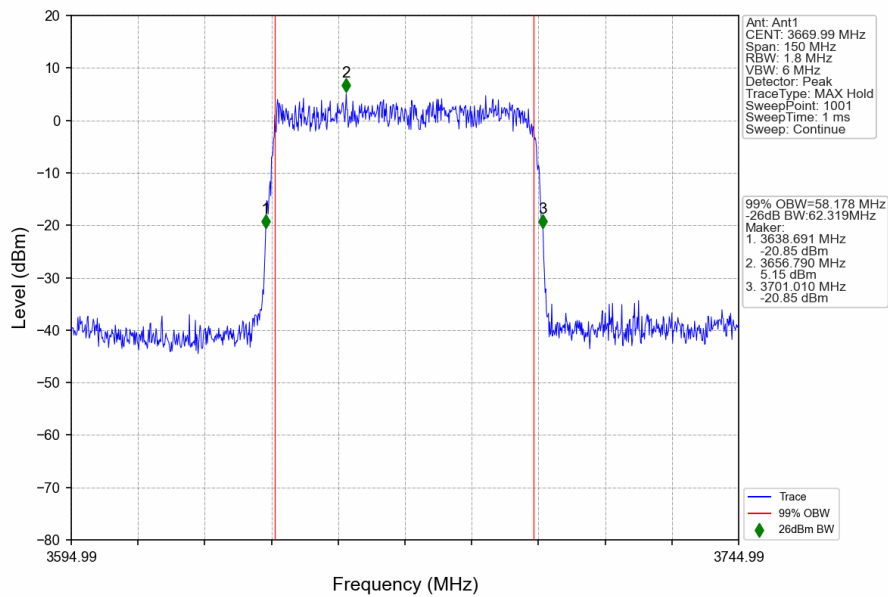
n78d_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM QPSK_3580.02MHz_Outer_Full



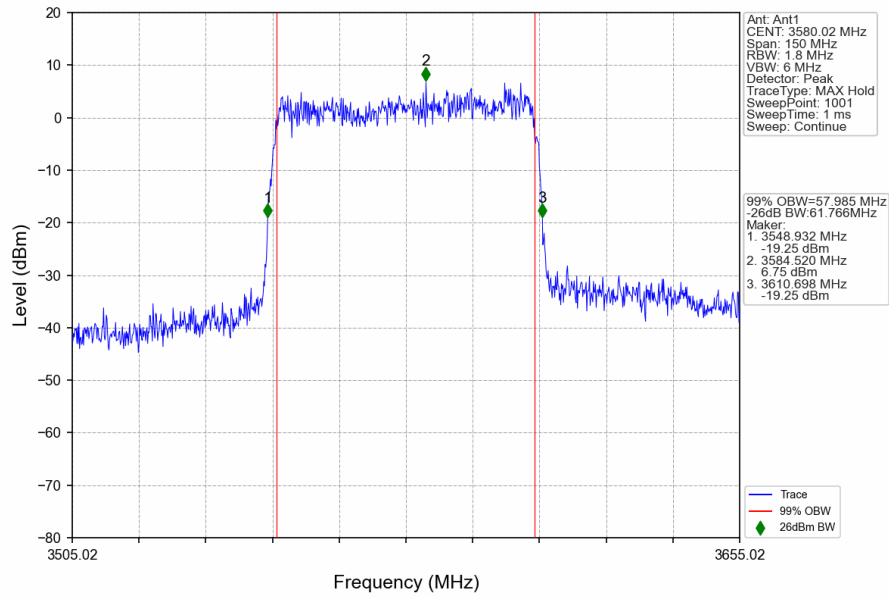
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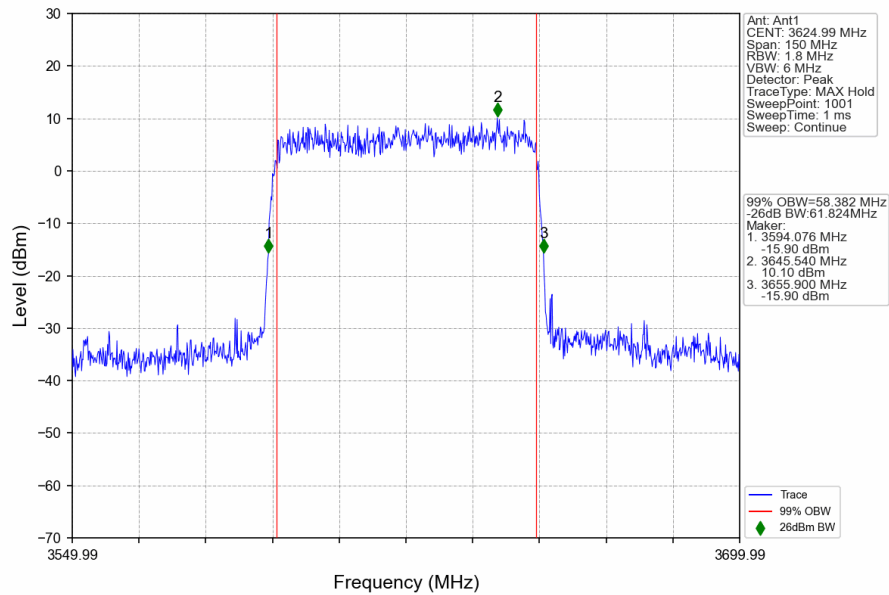
n78d_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM QPSK_3669.99MHz_Outer_Full



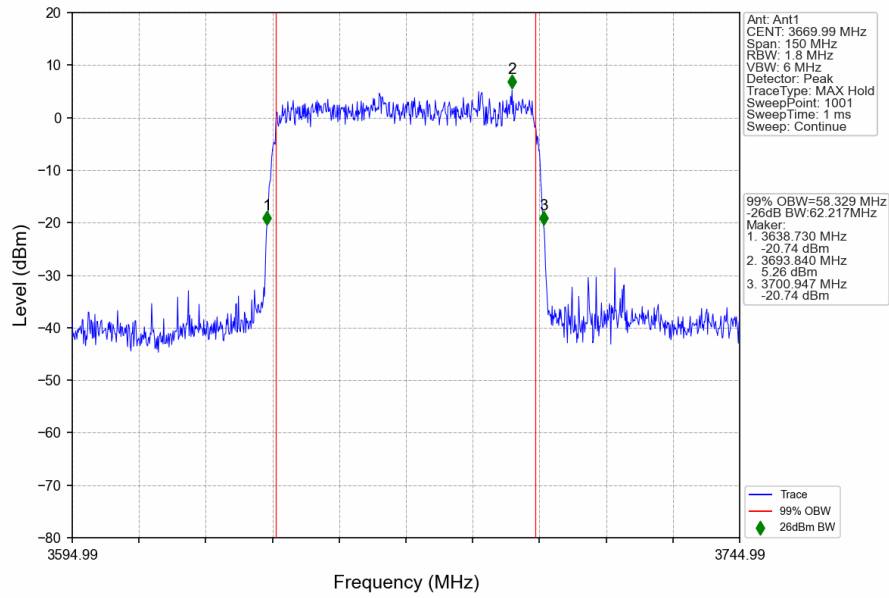
n78d_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM 16 QAM_3580.02MHz_Outer_Full



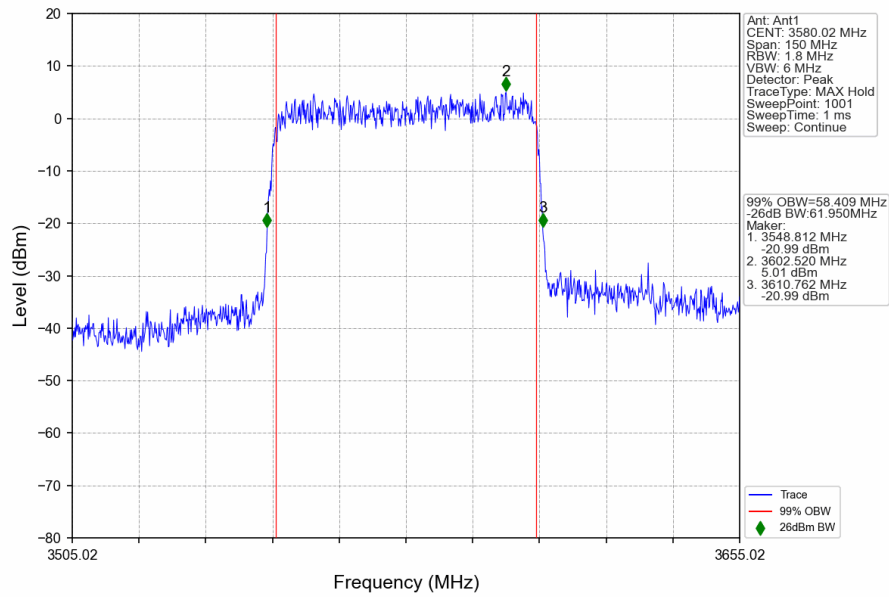
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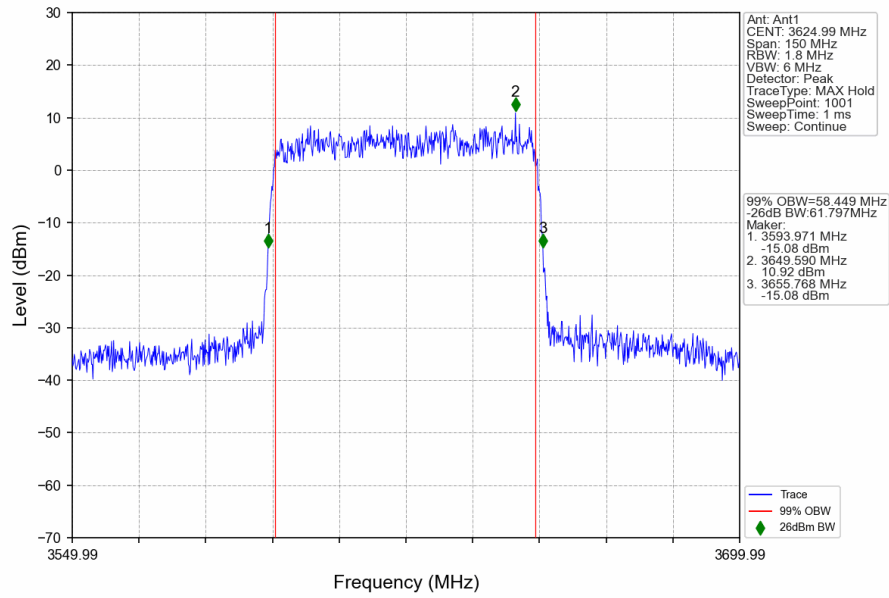
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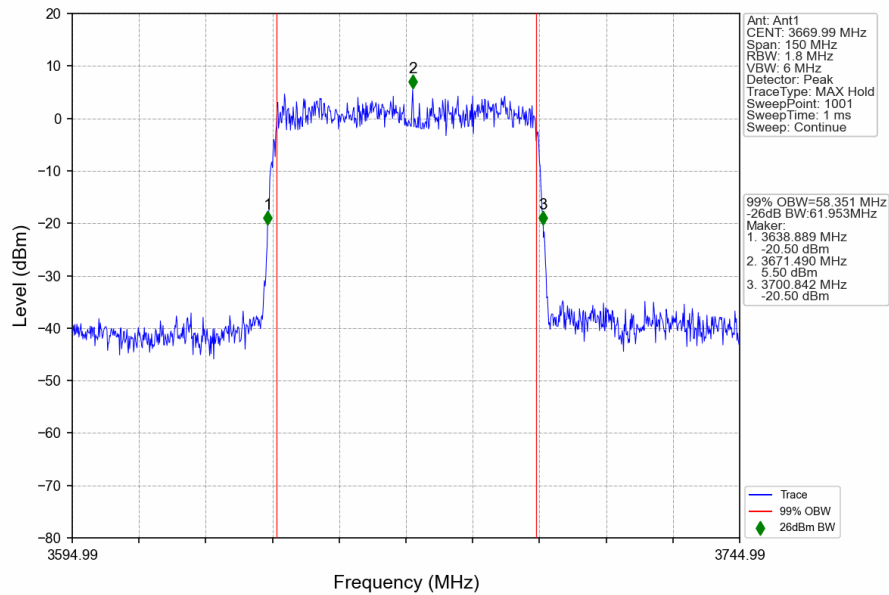
n78d_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM 64 QAM_3580.02MHz_Outer_Full



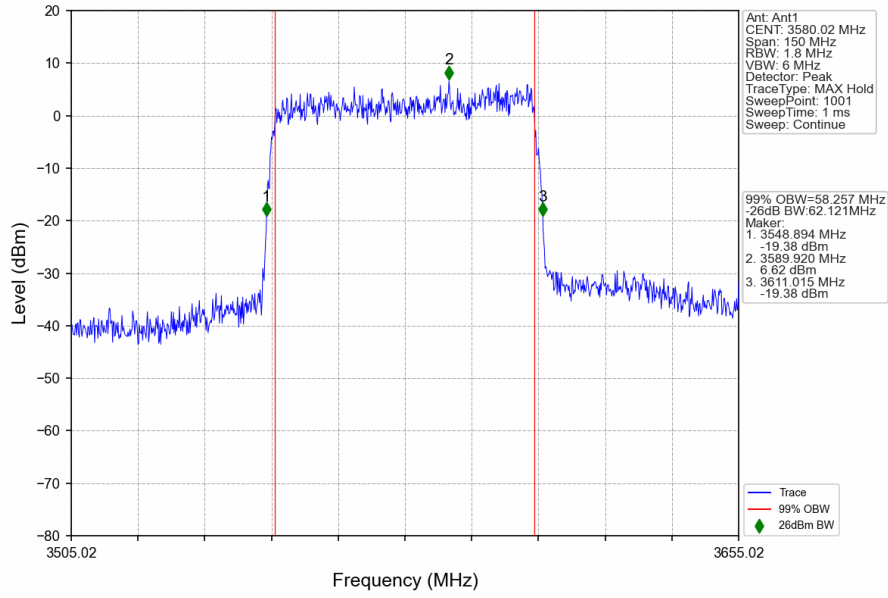
n78d_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM_64_QAM_3624.99MHz_Outer_Full



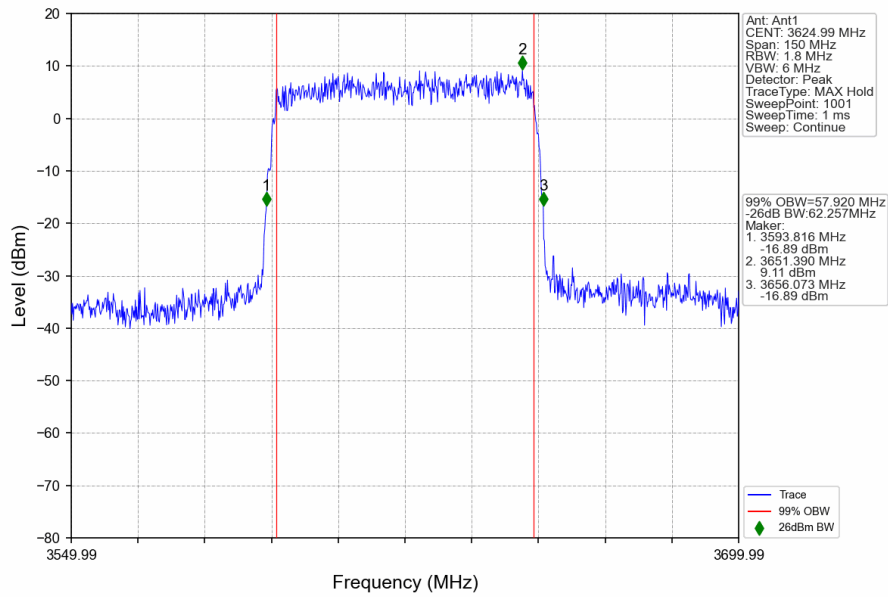
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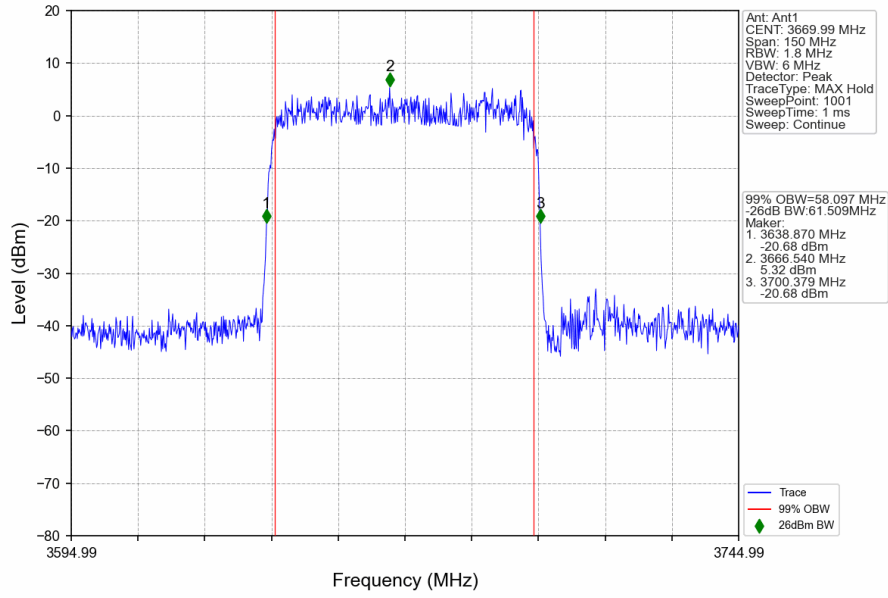
n78d_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM 256 QAM_3580.02MHz_Outer_Full



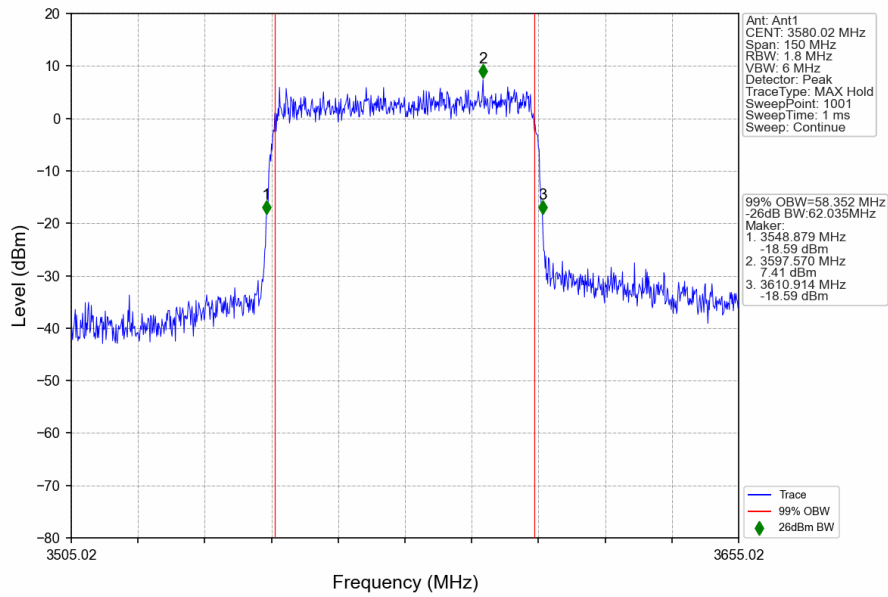
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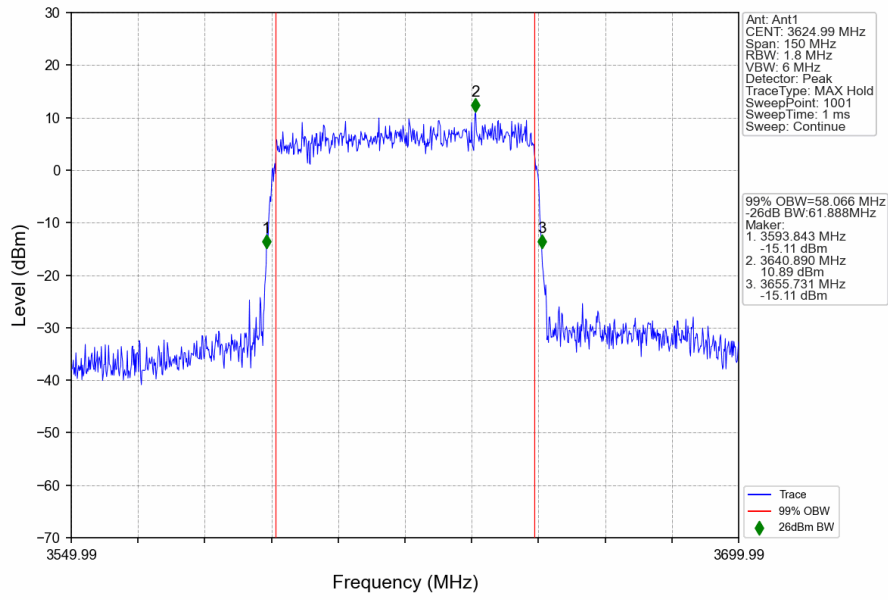
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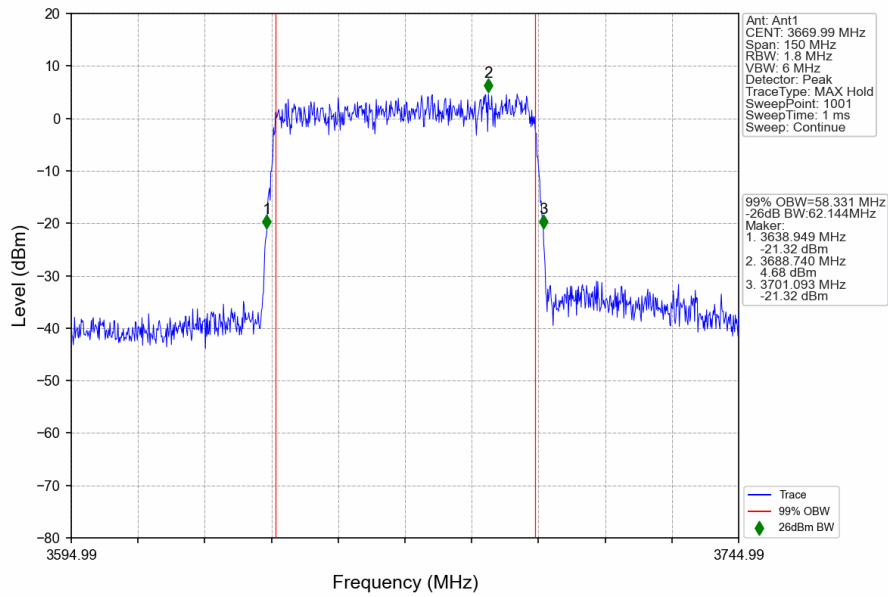
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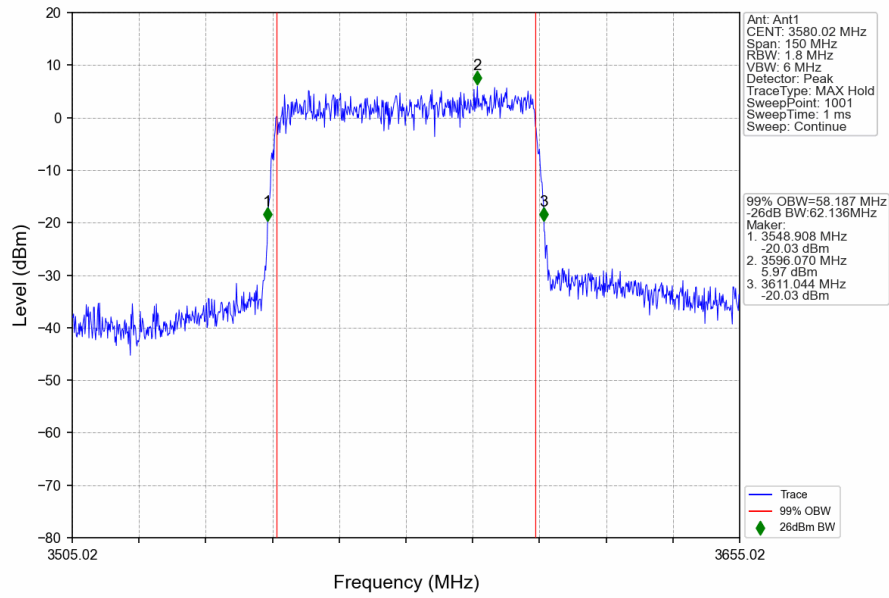
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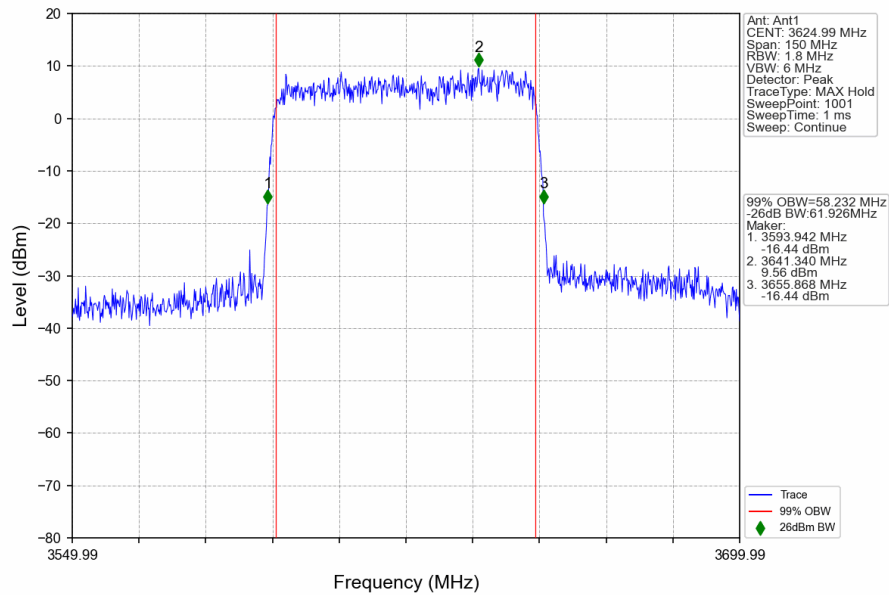
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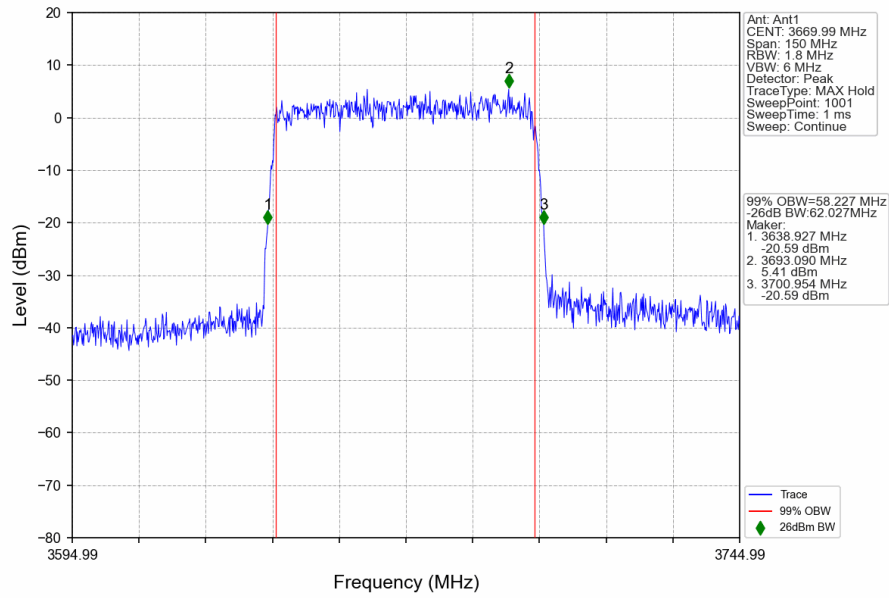
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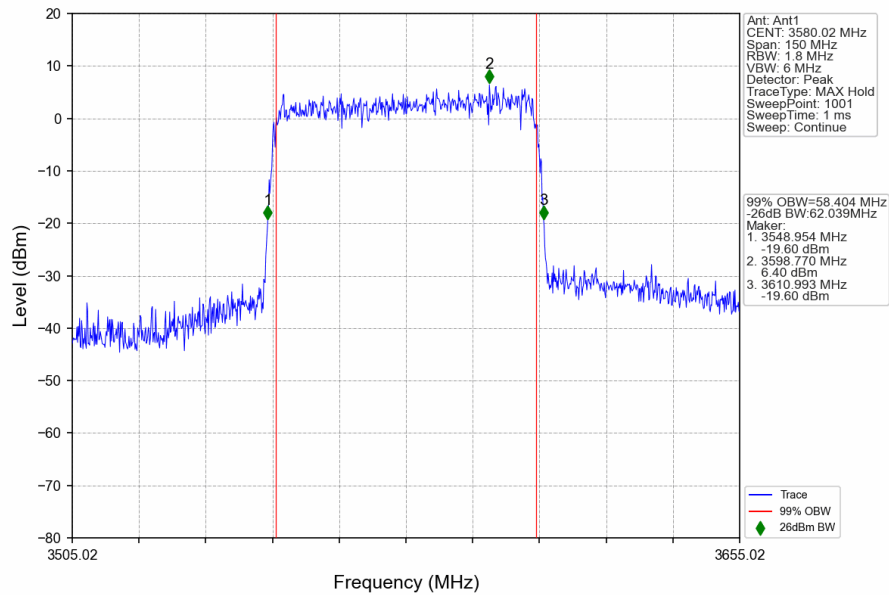
n78d_30kHz_SISO_NTNV_60MHz_CP-OFDM 16 QAM_3624.99MHz_Outer_Full



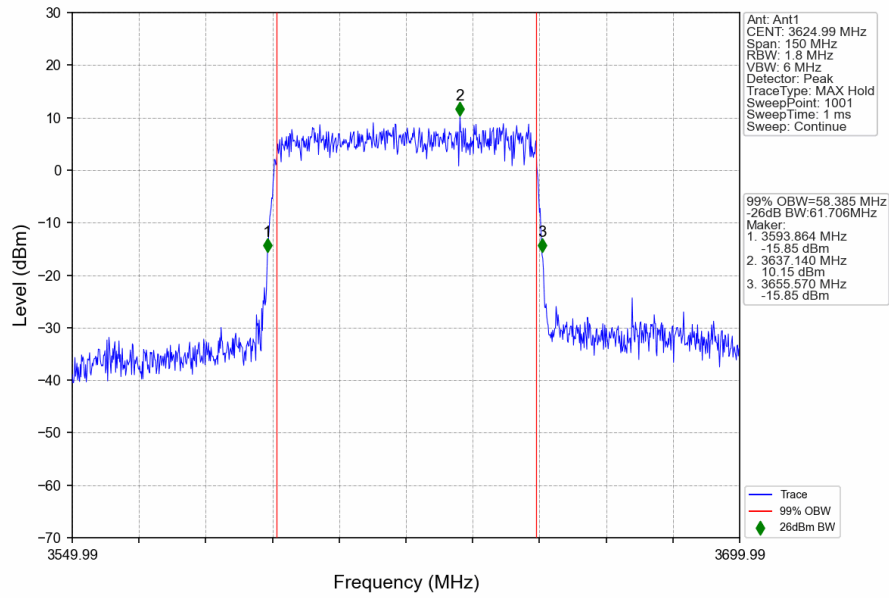
n78d_30kHz_SISO_NTNV_60MHz_CP-OFDM 16 QAM_3669.99MHz_Outer_Full



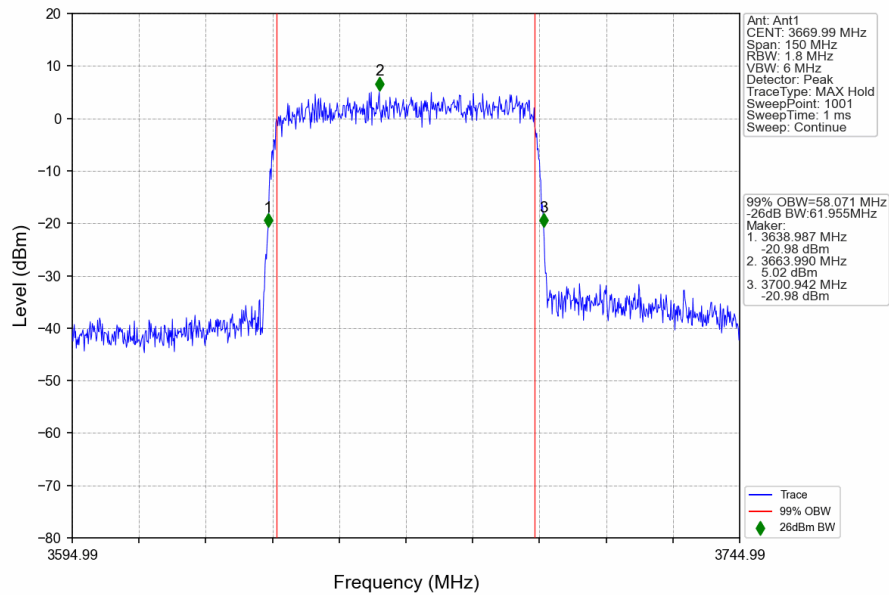
n78d_30kHz_SISO_NTNV_60MHz_CP-OFDM 64 QAM_3580.02MHz_Outer_Full



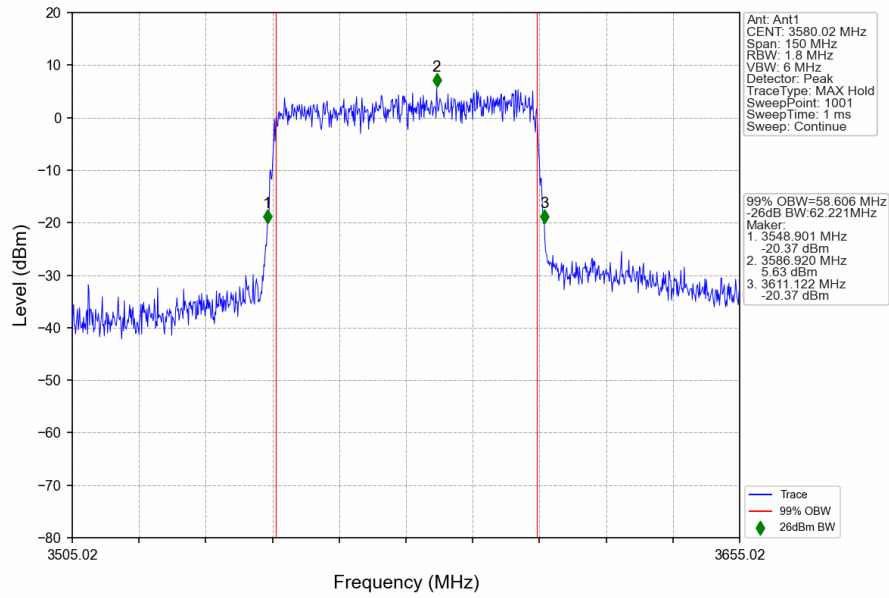
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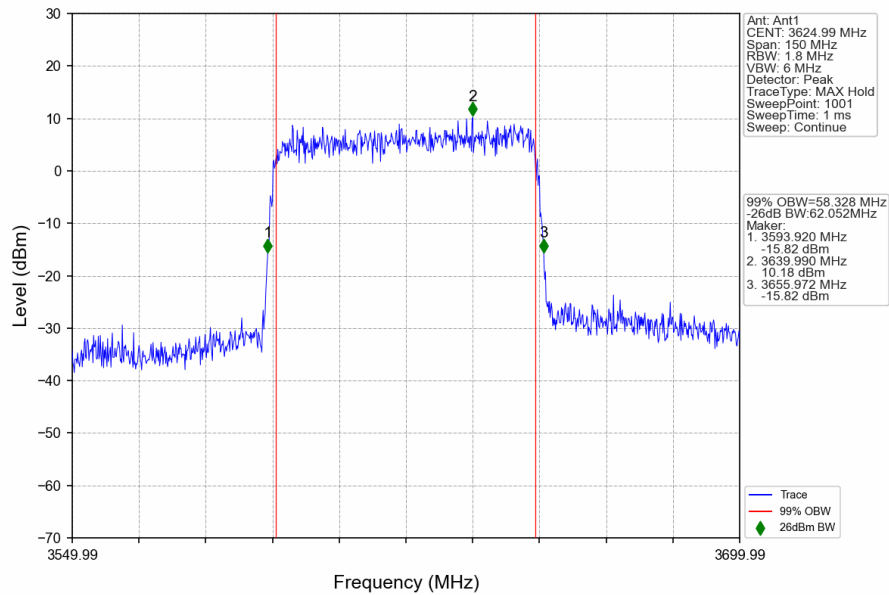
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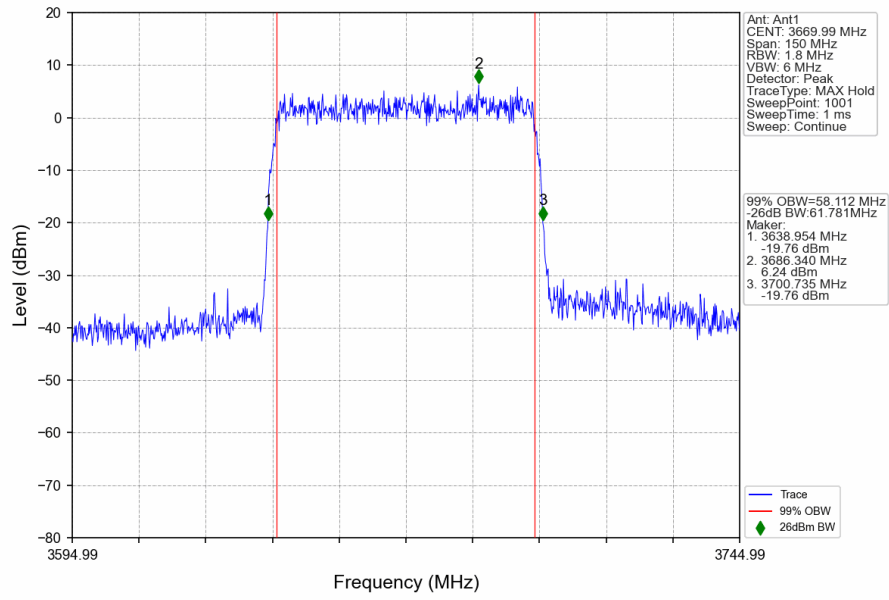
n78d_30kHz_SISO_NTNV_60MHz_CP-OFDM 256 QAM_3580.02MHz_Outer_Full



n78d_30kHz_SISO_NTNV_60MHz_CP-OFDM 256 QAM_3624.99MHz_Outer_Full



n78d_30kHz_SISO_NTNV_60MHz_CP-OFDM 256 QAM_3669.99MHz_Outer_Full

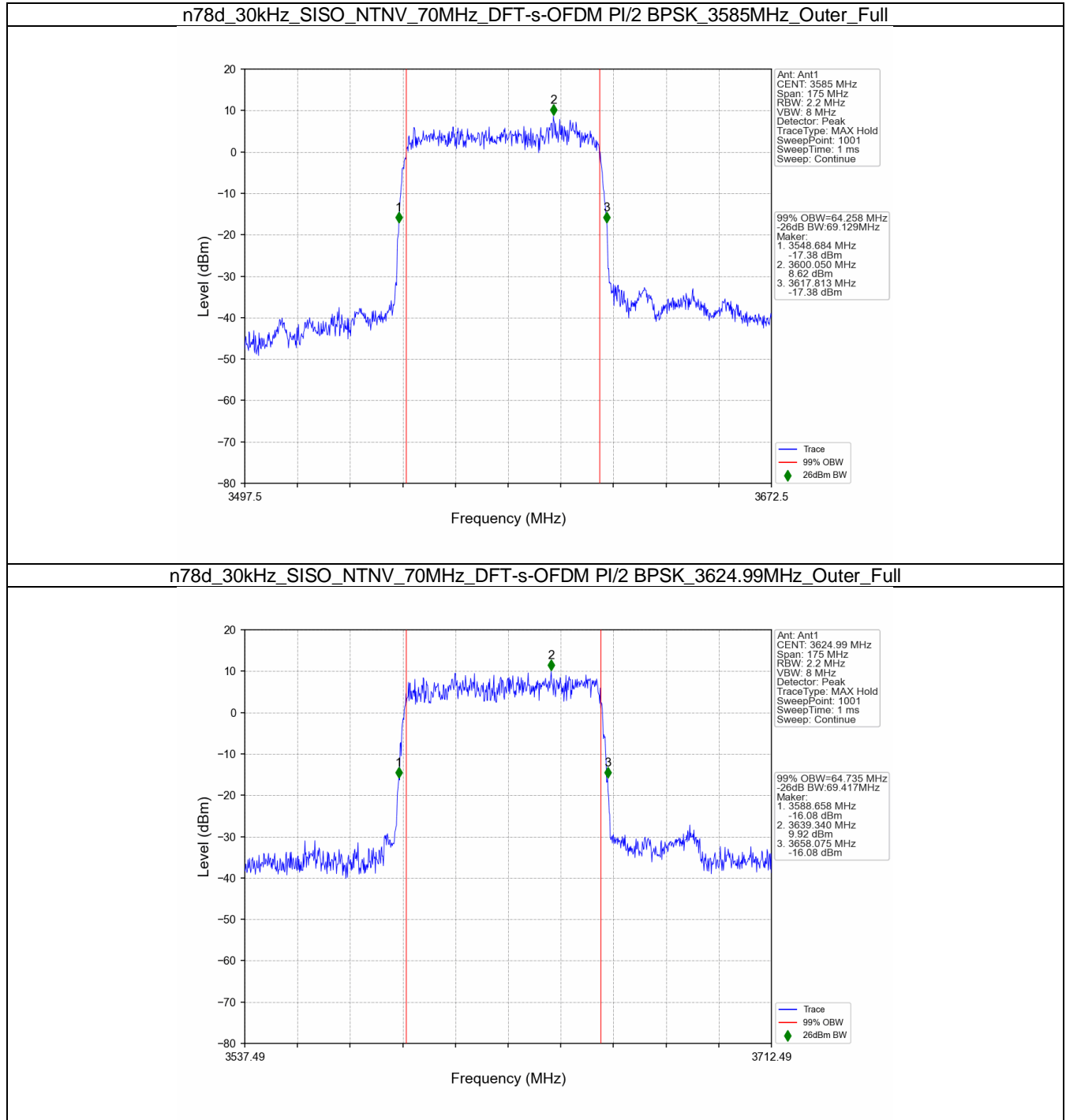


1.6 30k_SISO_70MHz_NTNV

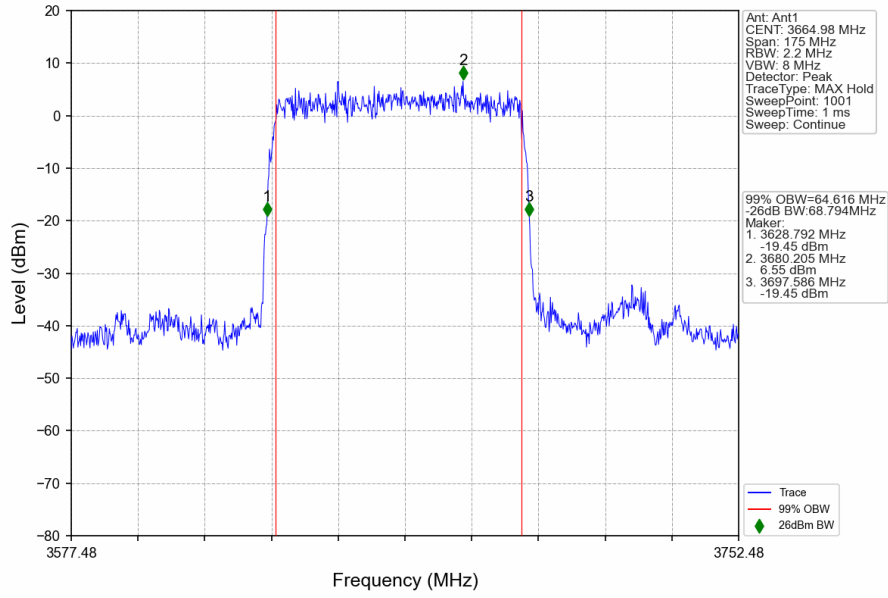
1.6.1 Test Result

5G NR n78d SCS=30kHz SISO 70MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3585	Outer_Full	64.26	69.13	/	Pass
	3624.99	Outer_Full	64.73	69.42	/	Pass
	3664.98	Outer_Full	64.62	68.79	/	Pass
DFT-s-OFDM QPSK	3585	Outer_Full	64.21	68.72	/	Pass
	3624.99	Outer_Full	64.73	68.94	/	Pass
	3664.98	Outer_Full	64.47	69.04	/	Pass
DFT-s-OFDM 16 QAM	3585	Outer_Full	64.33	68.90	/	Pass
	3624.99	Outer_Full	64.63	69.13	/	Pass
	3664.98	Outer_Full	64.38	69.07	/	Pass
DFT-s-OFDM 64 QAM	3585	Outer_Full	64.75	68.36	/	Pass
	3624.99	Outer_Full	64.85	69.36	/	Pass
	3664.98	Outer_Full	64.98	69.40	/	Pass
DFT-s-OFDM 256 QAM	3585	Outer_Full	64.38	68.77	/	Pass
	3624.99	Outer_Full	64.88	69.32	/	Pass
	3664.98	Outer_Full	64.82	69.35	/	Pass
CP-OFDM QPSK	3585	Outer_Full	67.50	71.83	/	Pass
	3624.99	Outer_Full	67.90	72.46	/	Pass
	3664.98	Outer_Full	68.00	72.22	/	Pass
CP-OFDM 16 QAM	3585	Outer_Full	67.49	72.44	/	Pass
	3624.99	Outer_Full	68.03	72.35	/	Pass
	3664.98	Outer_Full	68.14	72.56	/	Pass
CP-OFDM 64 QAM	3585	Outer_Full	67.32	71.90	/	Pass
	3624.99	Outer_Full	67.88	72.45	/	Pass
	3664.98	Outer_Full	67.84	72.55	/	Pass
CP-OFDM 256 QAM	3585	Outer_Full	67.96	72.22	/	Pass
	3624.99	Outer_Full	67.56	72.59	/	Pass
	3664.98	Outer_Full	67.92	72.41	/	Pass

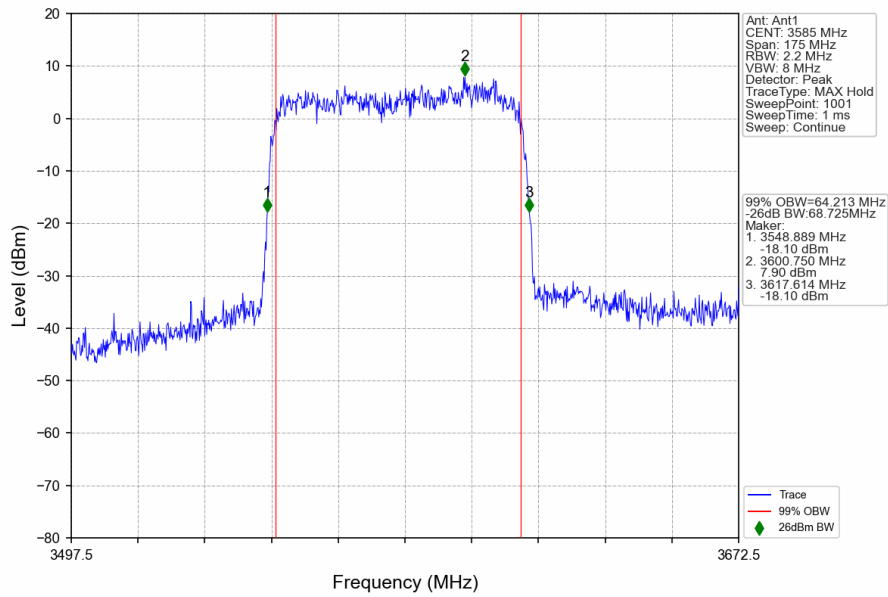
1.6.2 Test Graph



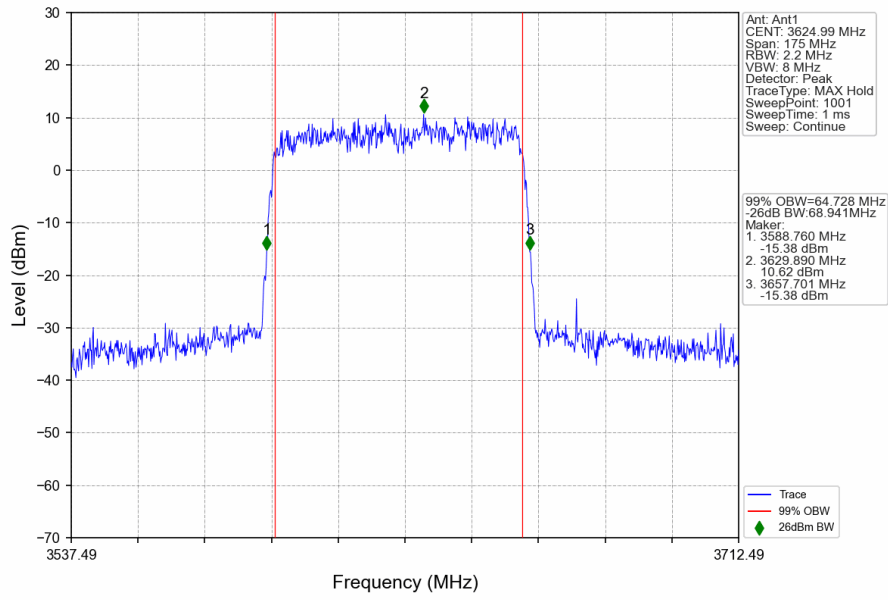
n78d_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM PI/2 BPSK_3664.98MHz_Outer_Full



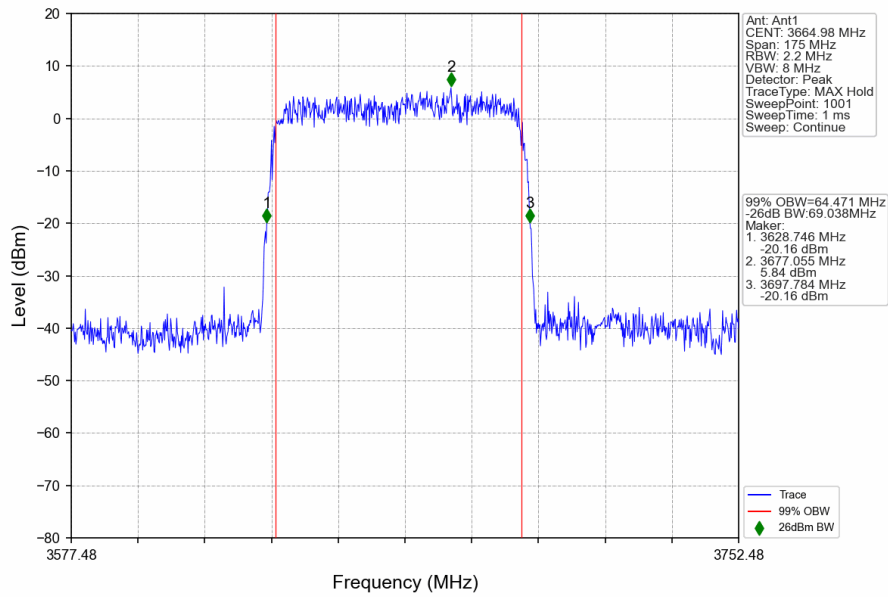
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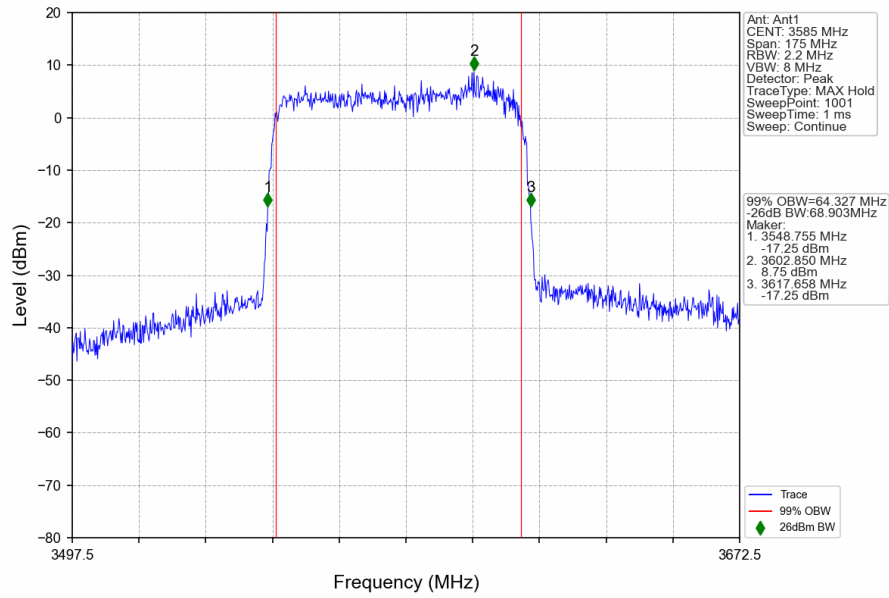
n78d_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM QPSK_3624.99MHz_Outer_Full



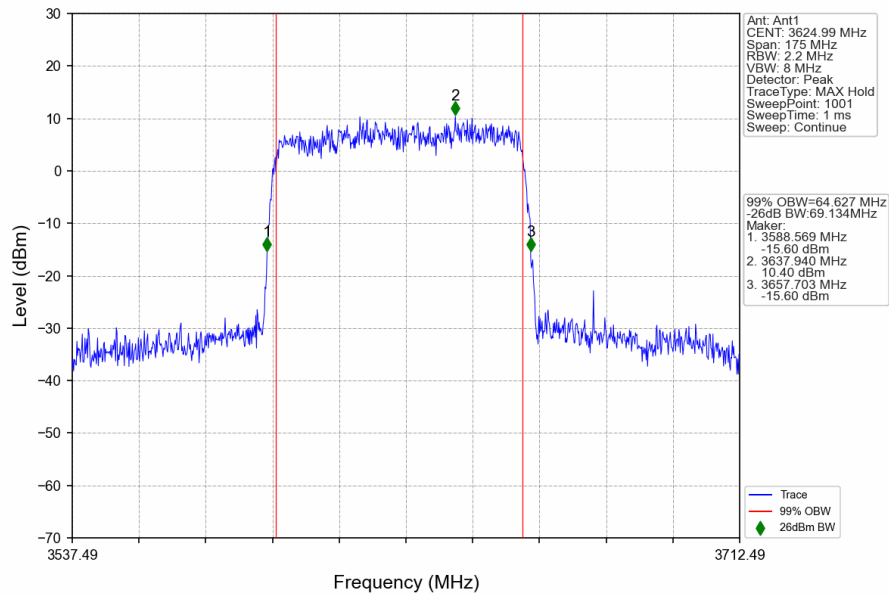
n78d_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM QPSK_3664.98MHz_Outer_Full



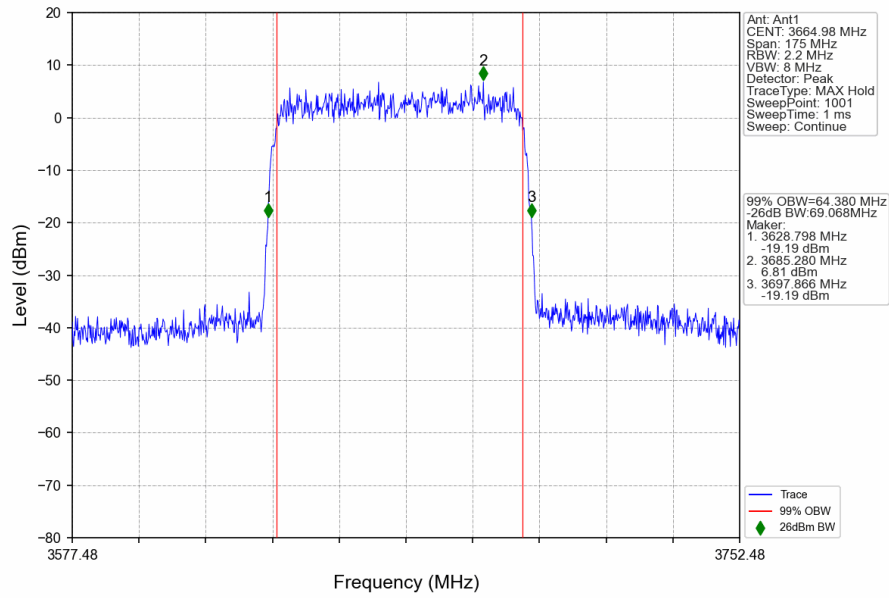
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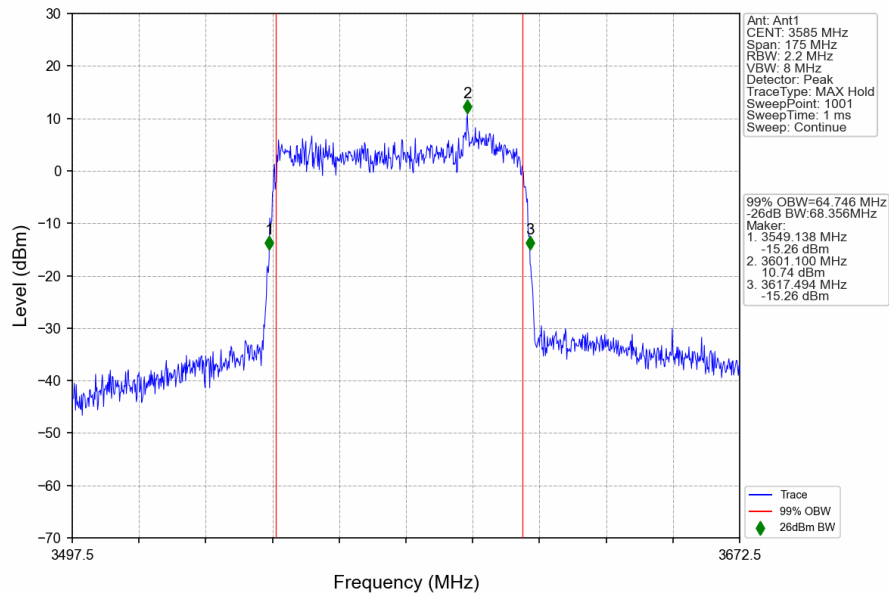
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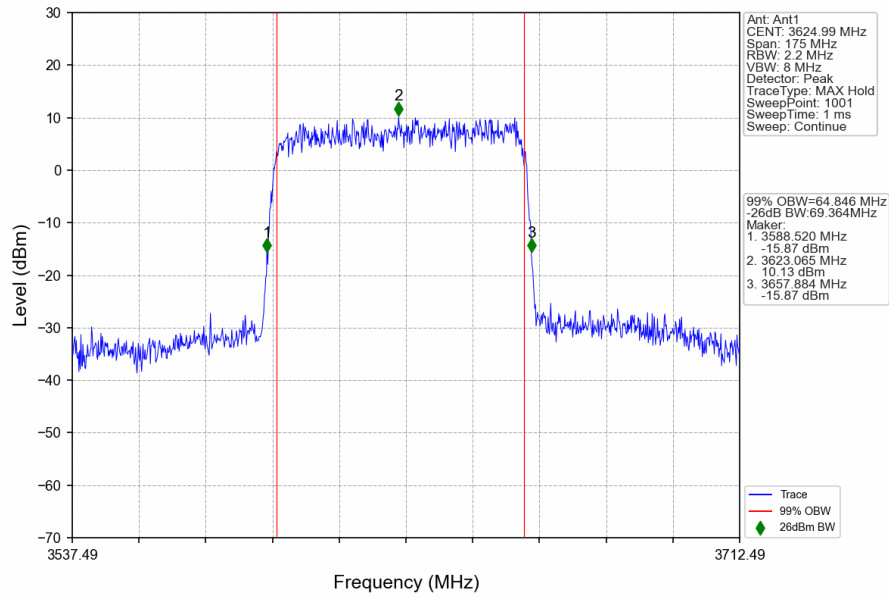
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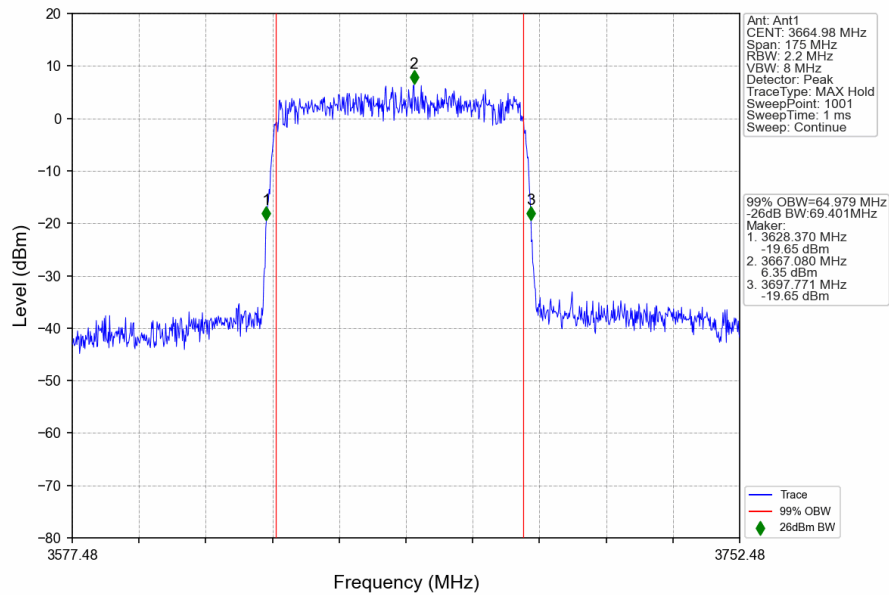
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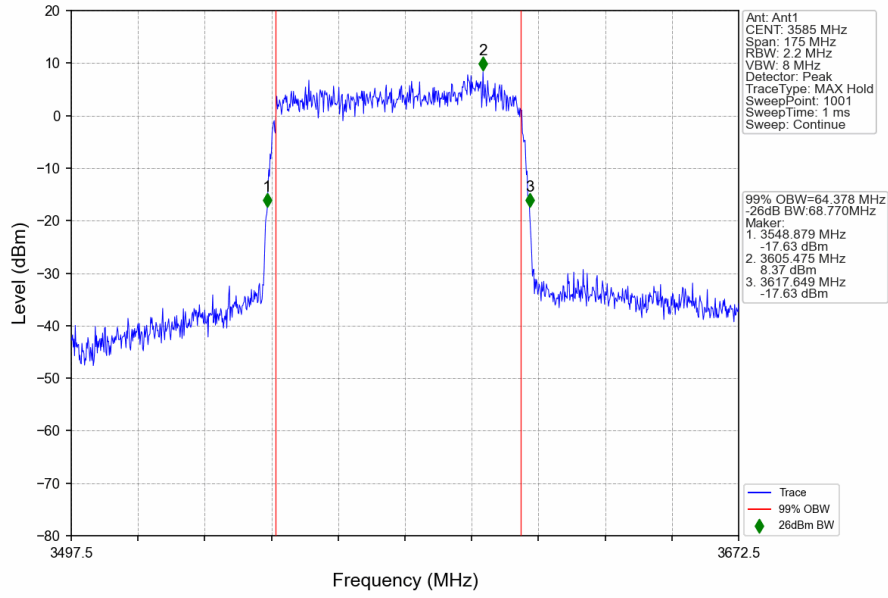
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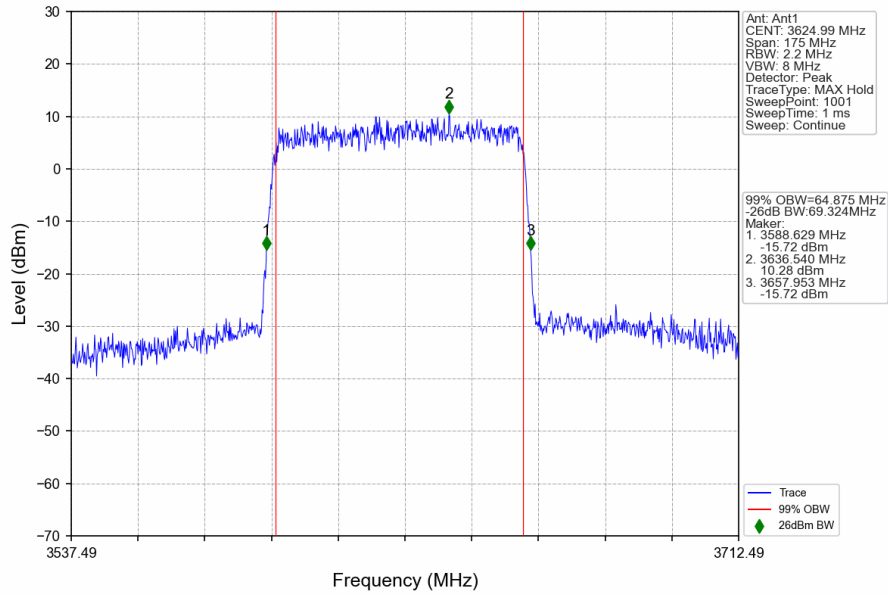
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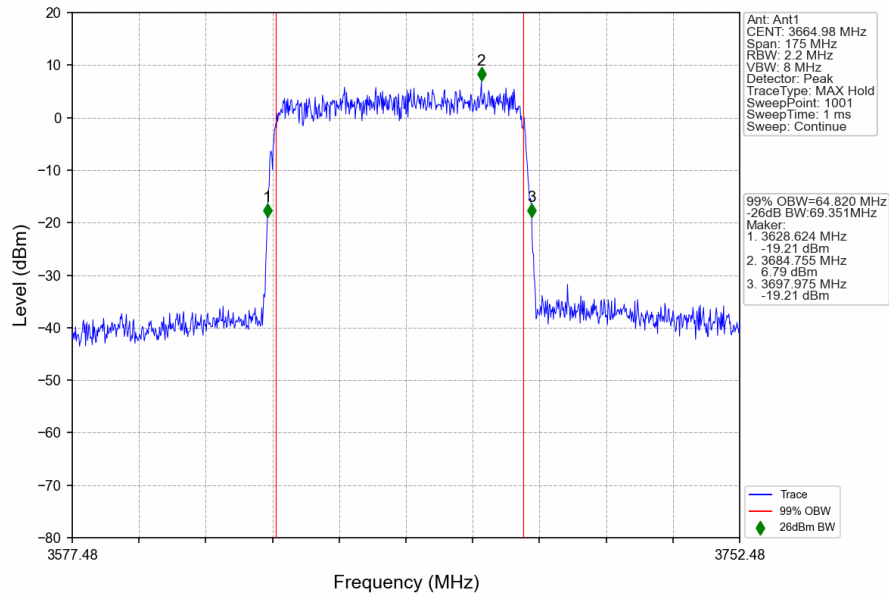
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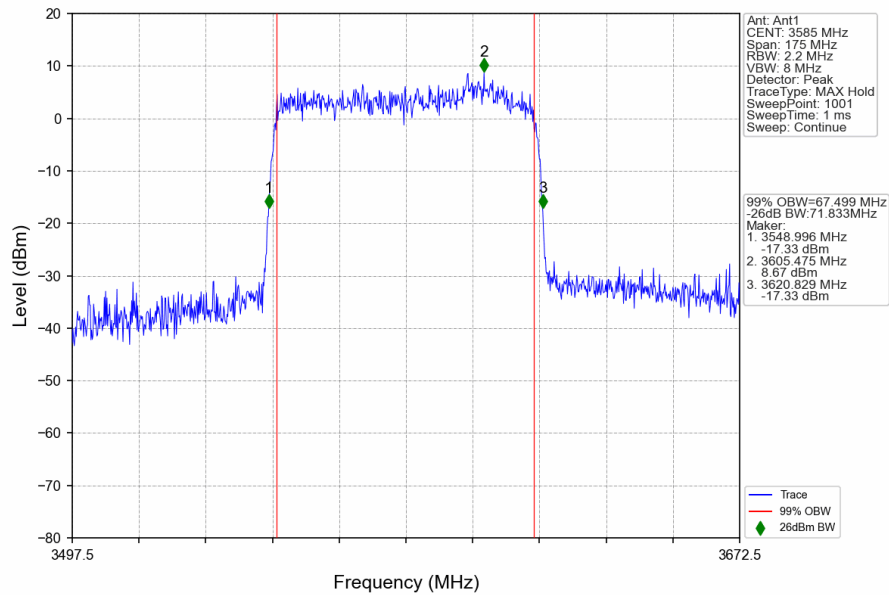
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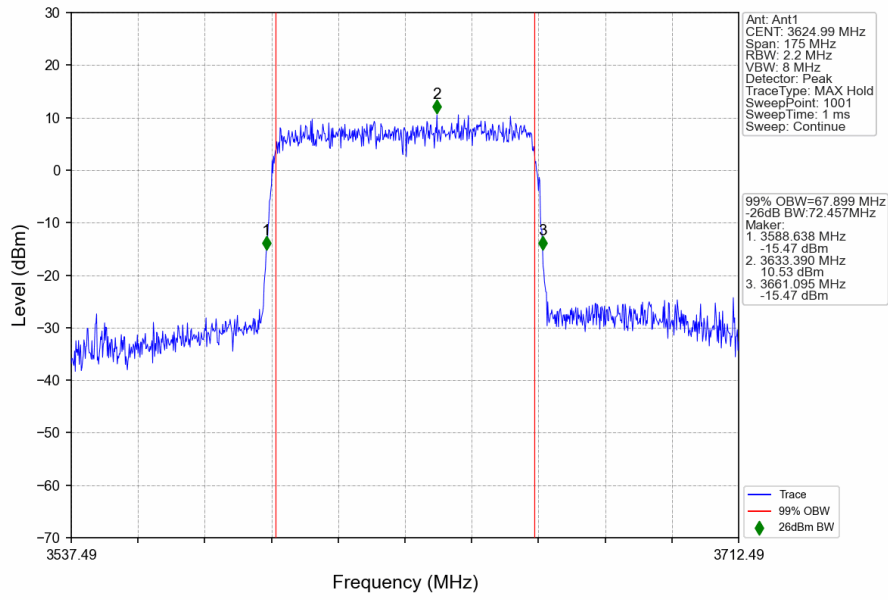
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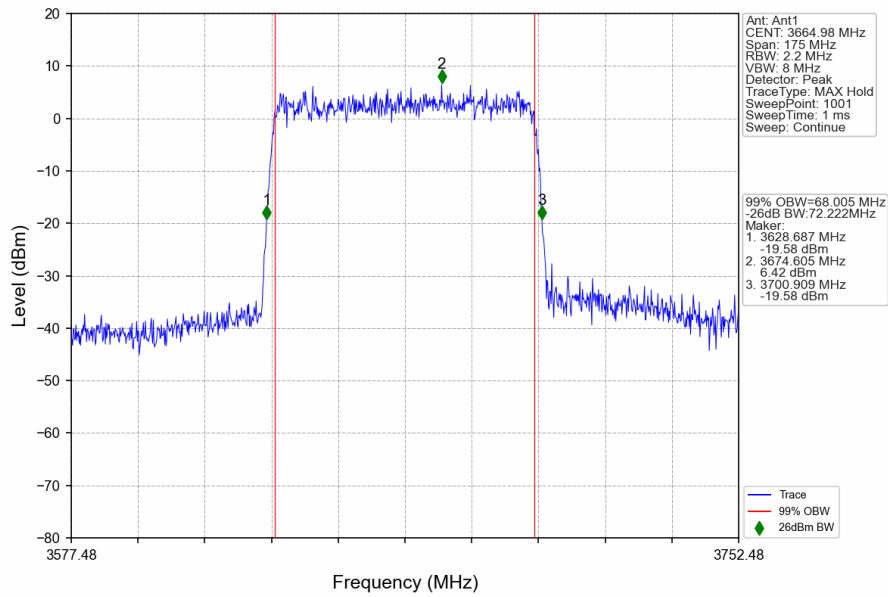
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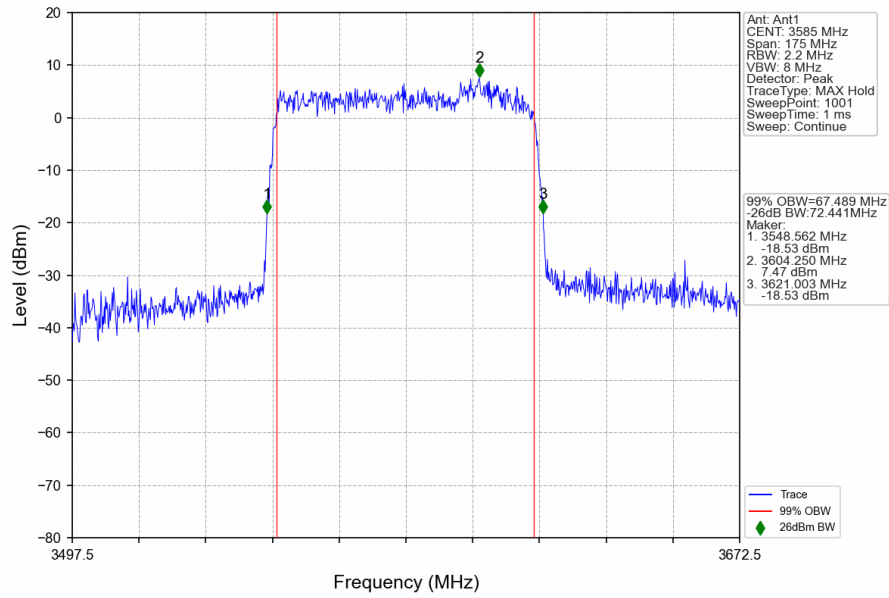
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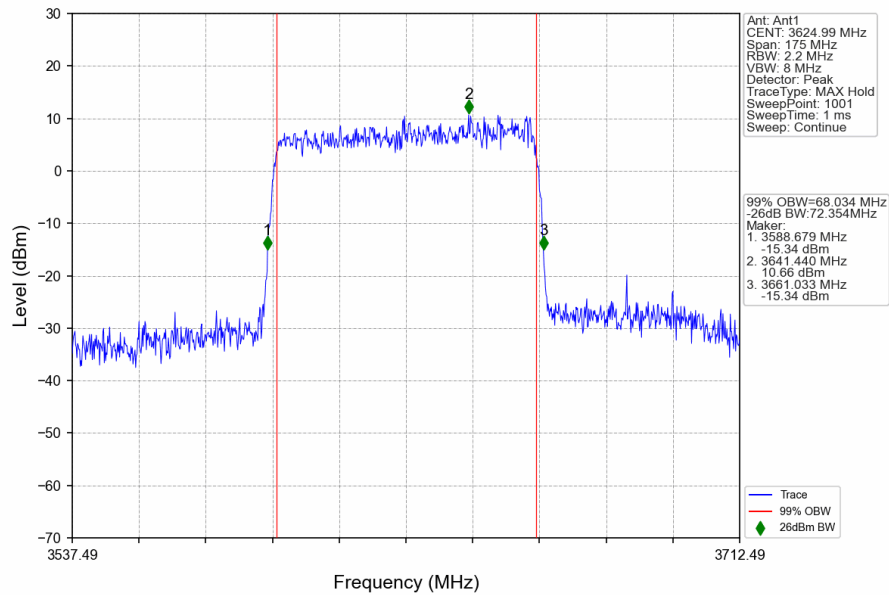
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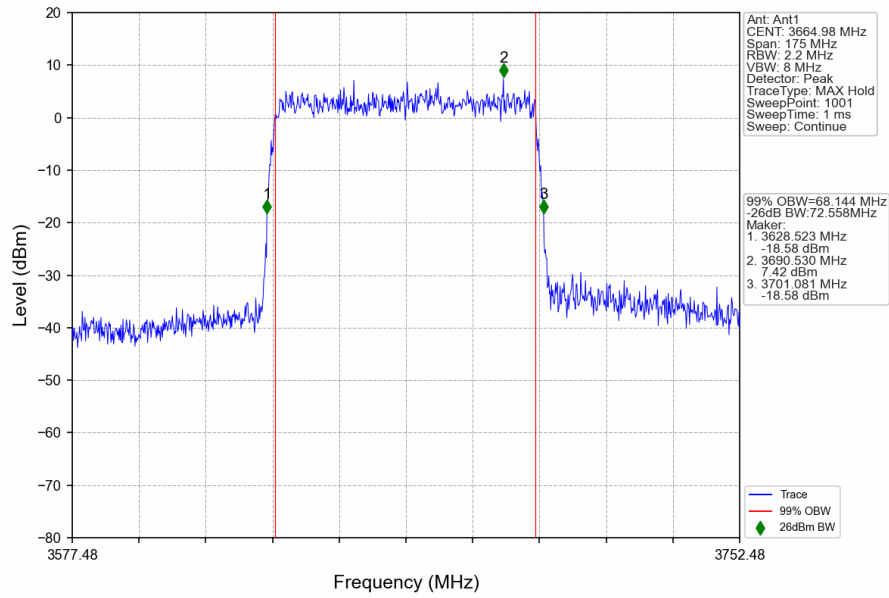
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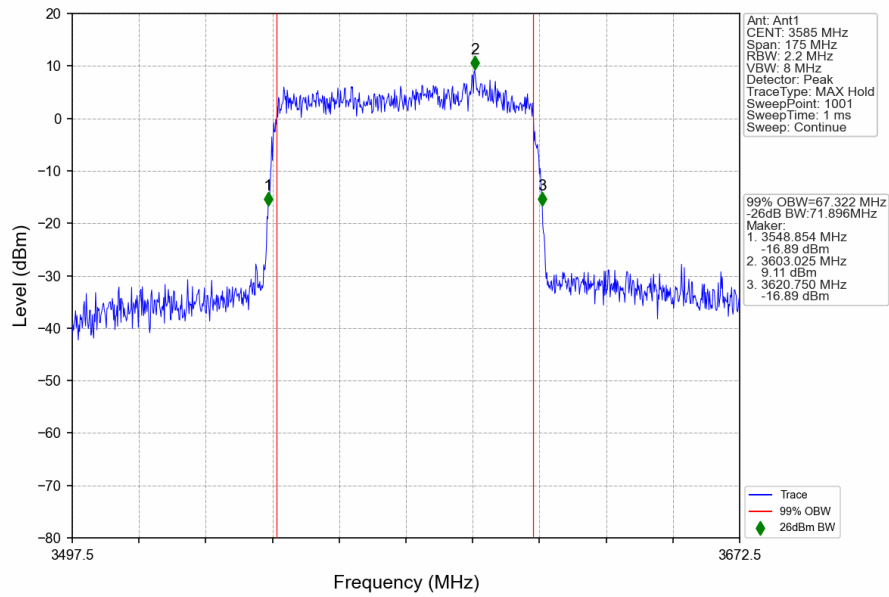
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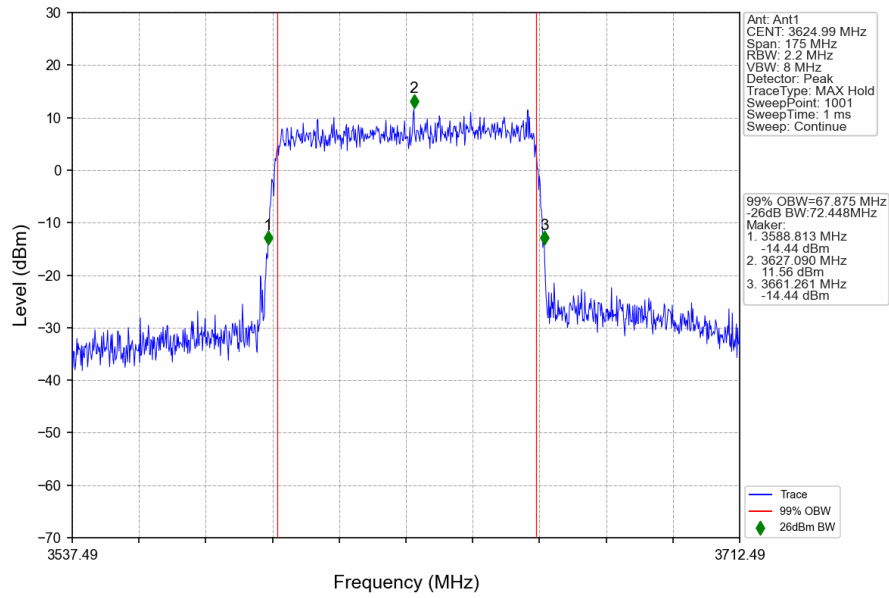
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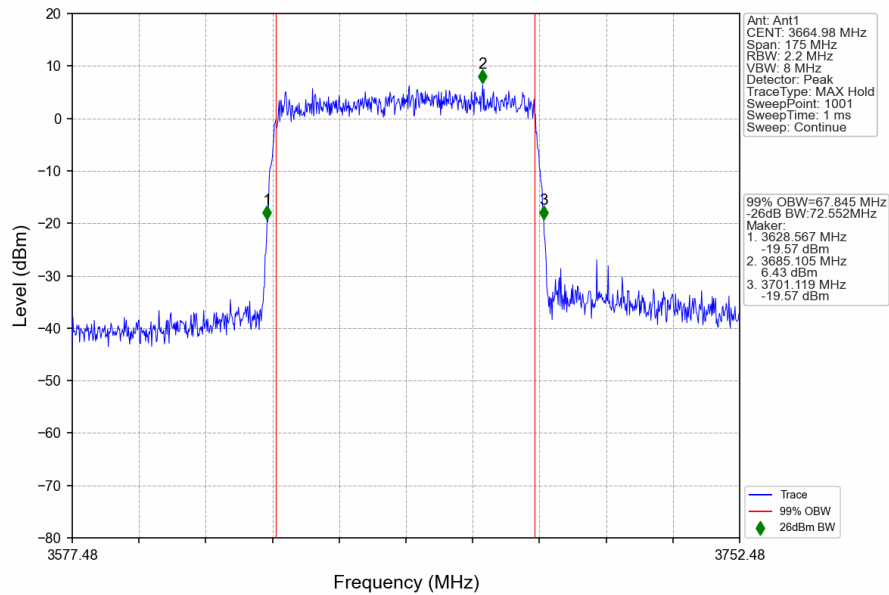
n78d_30kHz_SISO_NTNV_70MHz_CP-OFDM 64 QAM_3585MHz_Outer_Full



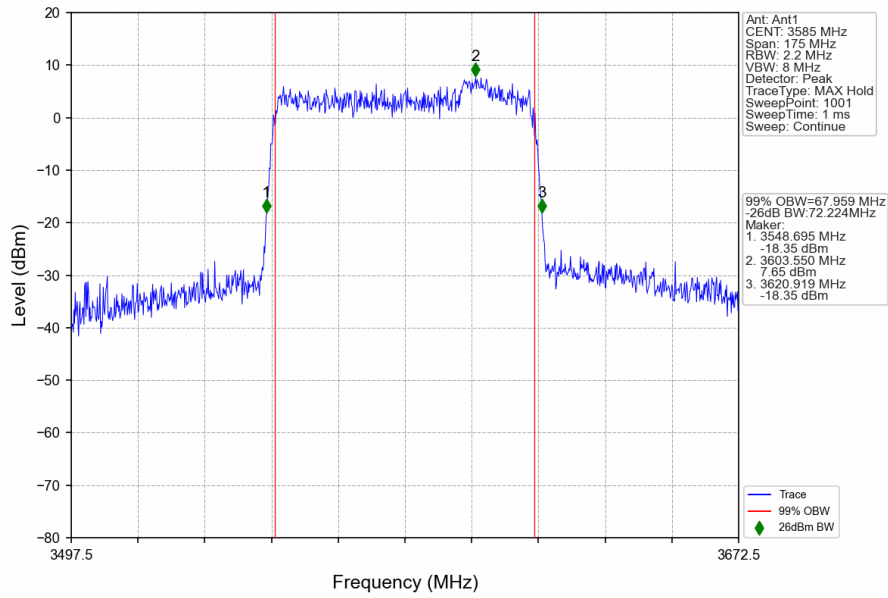
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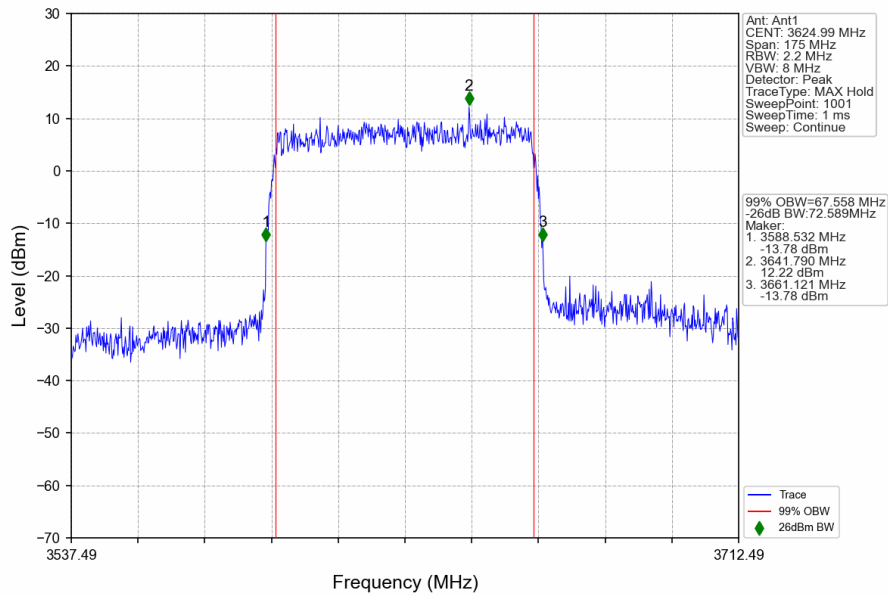
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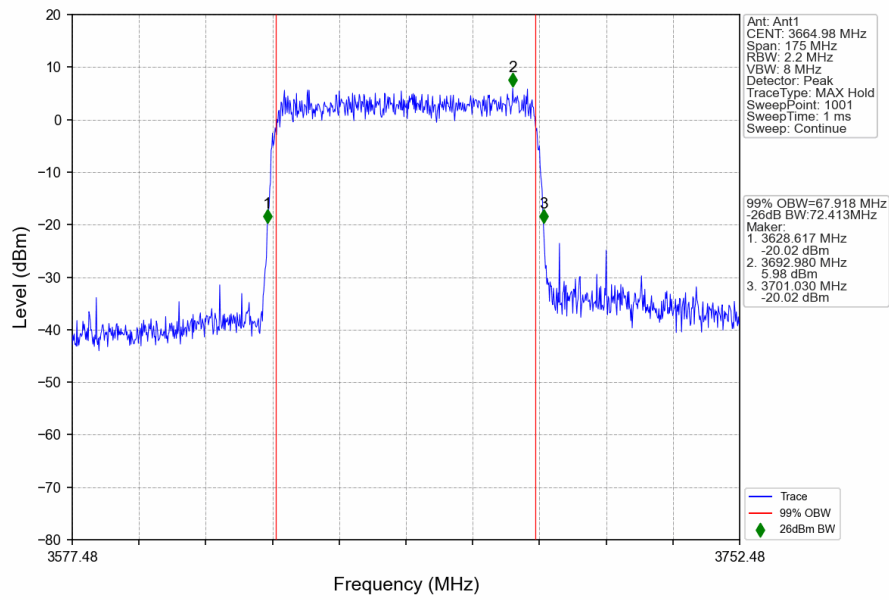
n78d_30kHz_SISO_NTNV_70MHz_CP-OFDM 256 QAM_3585MHz_Outer_Full



n78d_30kHz_SISO_NTNV_70MHz_CP-OFDM 256 QAM_3624.99MHz_Outer_Full



n78d_30kHz_SISO_NTNV_70MHz_CP-OFDM_256_QAM_3664.98MHz_Outer_Full

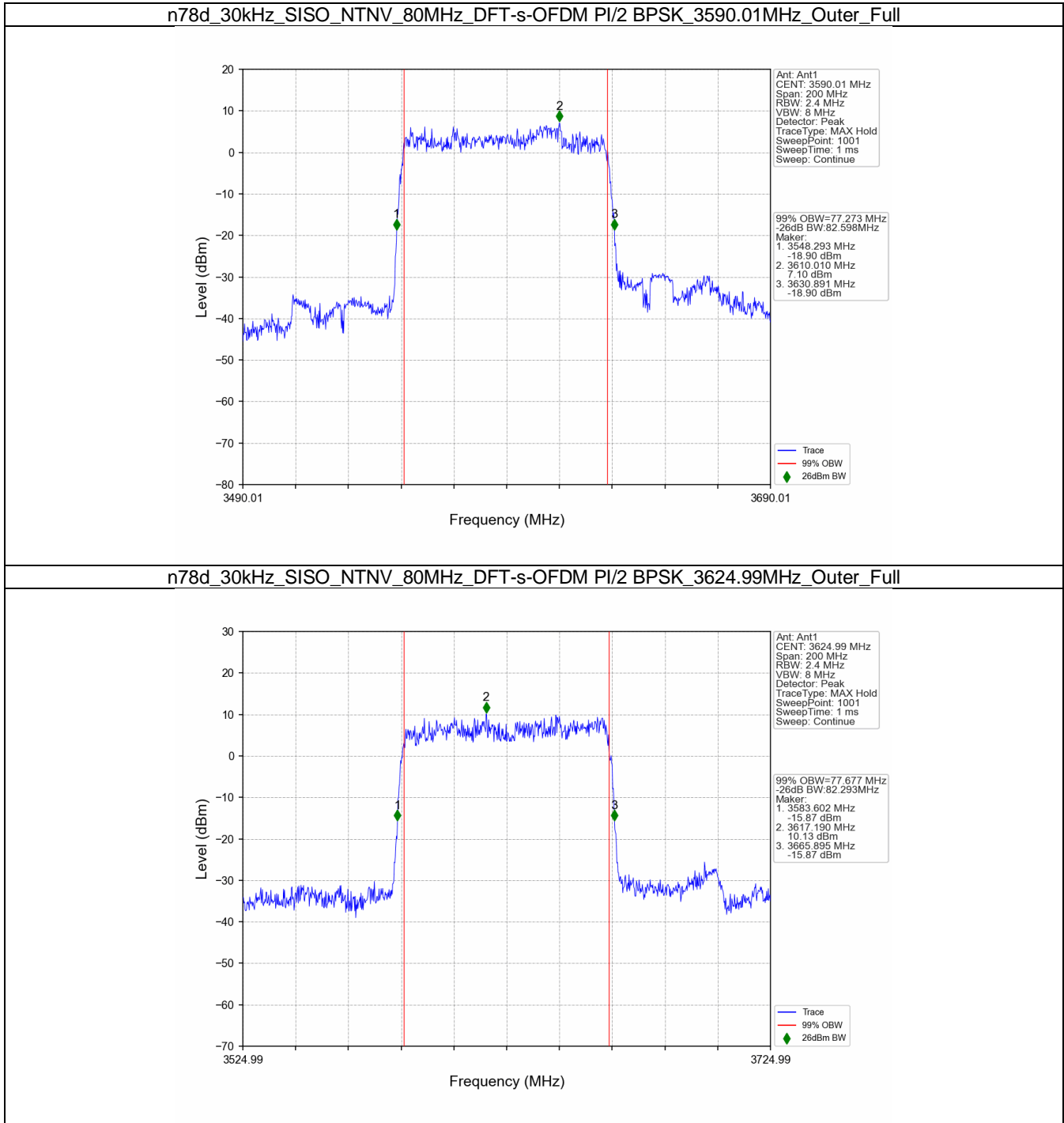


1.7 30k_SISO_80MHz_NTNV

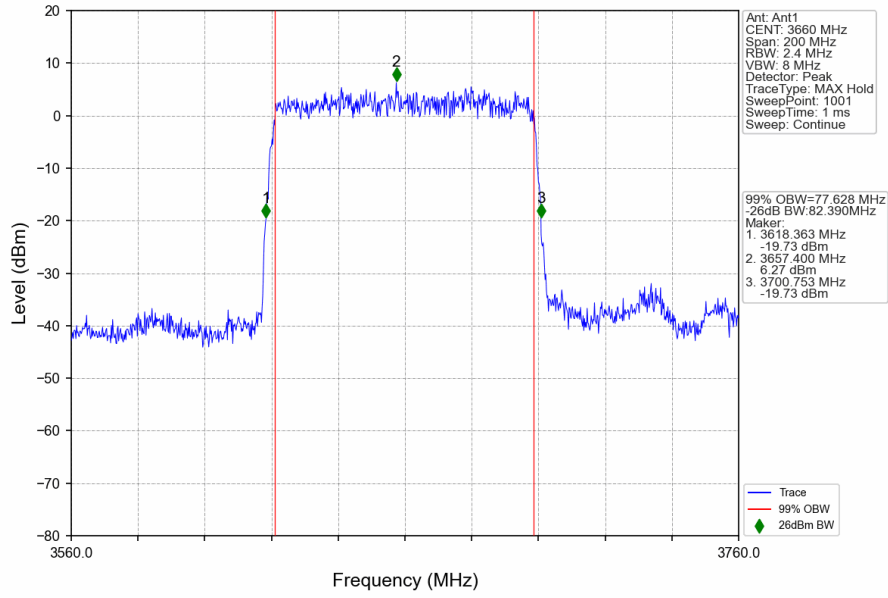
1.7.1 Test Result

5G NR n78d SCS=30kHz SISO 80MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3590.01	Outer_Full	77.27	82.60	/	Pass
	3624.99	Outer_Full	77.68	82.29	/	Pass
	3660	Outer_Full	77.63	82.39	/	Pass
DFT-s-OFDM QPSK	3590.01	Outer_Full	77.35	82.47	/	Pass
	3624.99	Outer_Full	77.59	82.35	/	Pass
	3660	Outer_Full	77.72	82.33	/	Pass
DFT-s-OFDM 16 QAM	3590.01	Outer_Full	77.01	82.44	/	Pass
	3624.99	Outer_Full	77.73	82.31	/	Pass
	3660	Outer_Full	77.85	82.53	/	Pass
DFT-s-OFDM 64 QAM	3590.01	Outer_Full	77.22	82.07	/	Pass
	3624.99	Outer_Full	77.58	82.97	/	Pass
	3660	Outer_Full	77.47	82.49	/	Pass
DFT-s-OFDM 256 QAM	3590.01	Outer_Full	77.13	82.36	/	Pass
	3624.99	Outer_Full	77.69	82.14	/	Pass
	3660	Outer_Full	77.81	82.44	/	Pass
CP-OFDM QPSK	3590.01	Outer_Full	77.72	83.01	/	Pass
	3624.99	Outer_Full	78.01	82.68	/	Pass
	3660	Outer_Full	77.90	82.98	/	Pass
CP-OFDM 16 QAM	3590.01	Outer_Full	77.76	82.96	/	Pass
	3624.99	Outer_Full	77.88	82.86	/	Pass
	3660	Outer_Full	78.00	82.91	/	Pass
CP-OFDM 64 QAM	3590.01	Outer_Full	77.71	82.94	/	Pass
	3624.99	Outer_Full	77.99	82.99	/	Pass
	3660	Outer_Full	78.21	83.01	/	Pass
CP-OFDM 256 QAM	3590.01	Outer_Full	78.00	82.77	/	Pass
	3624.99	Outer_Full	78.24	82.44	/	Pass
	3660	Outer_Full	77.90	83.18	/	Pass

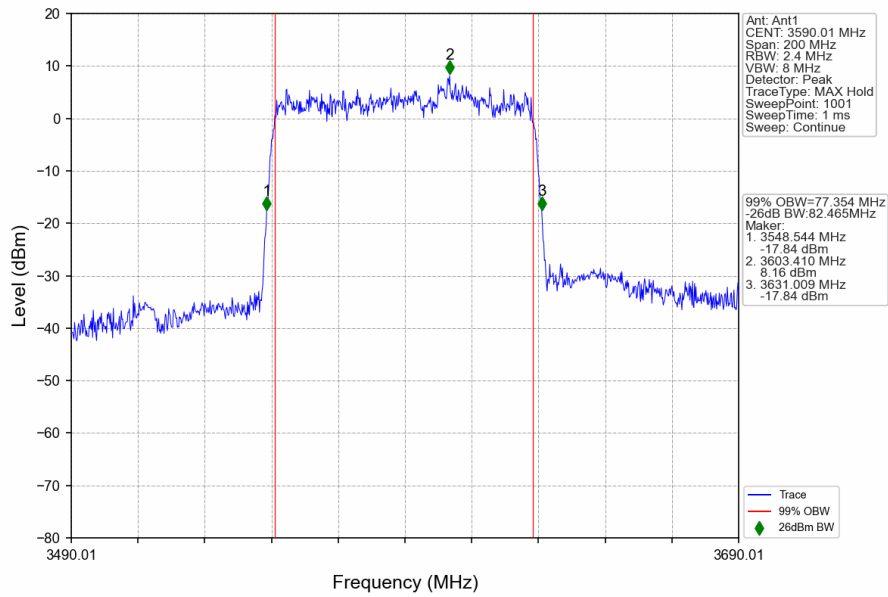
1.7.2 Test Graph



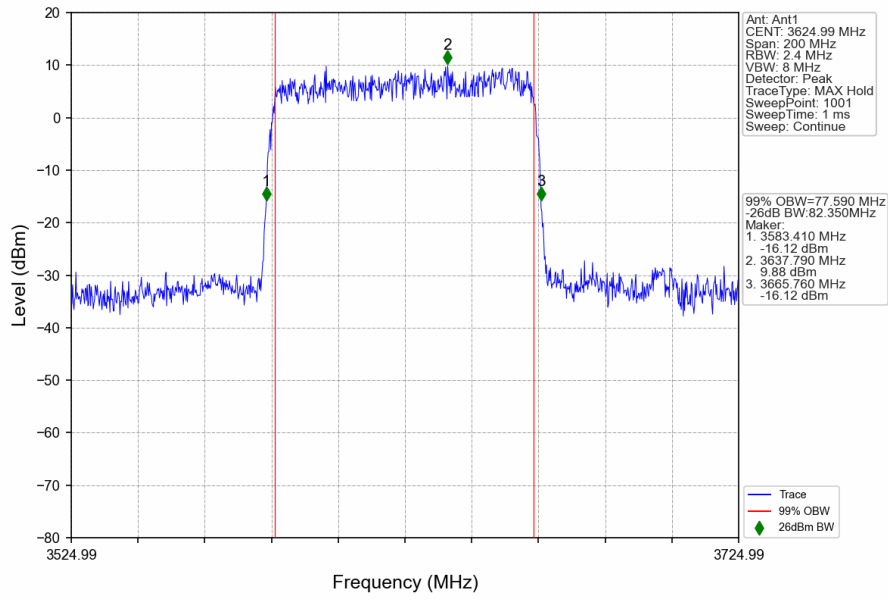
n78d_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM PI/2 BPSK_3660MHz_Outer_Full



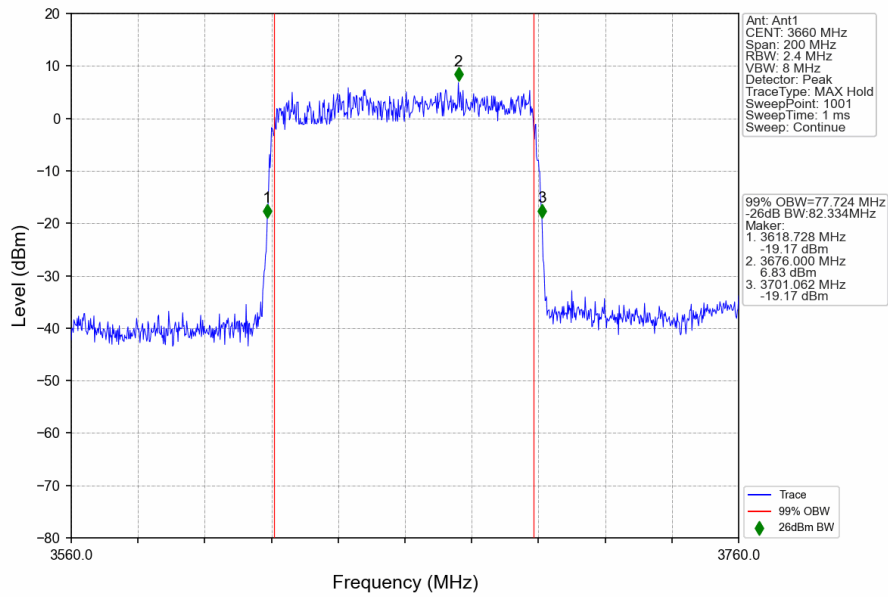
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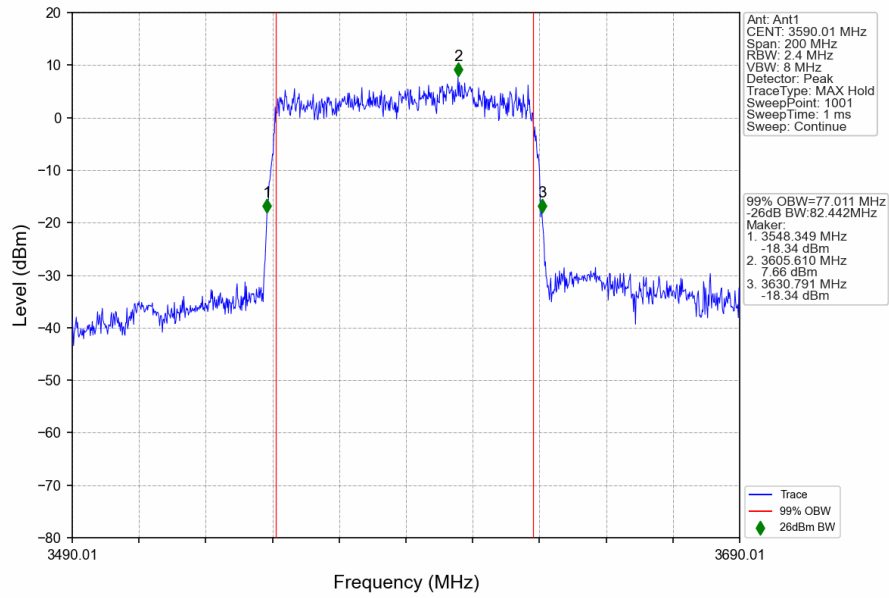
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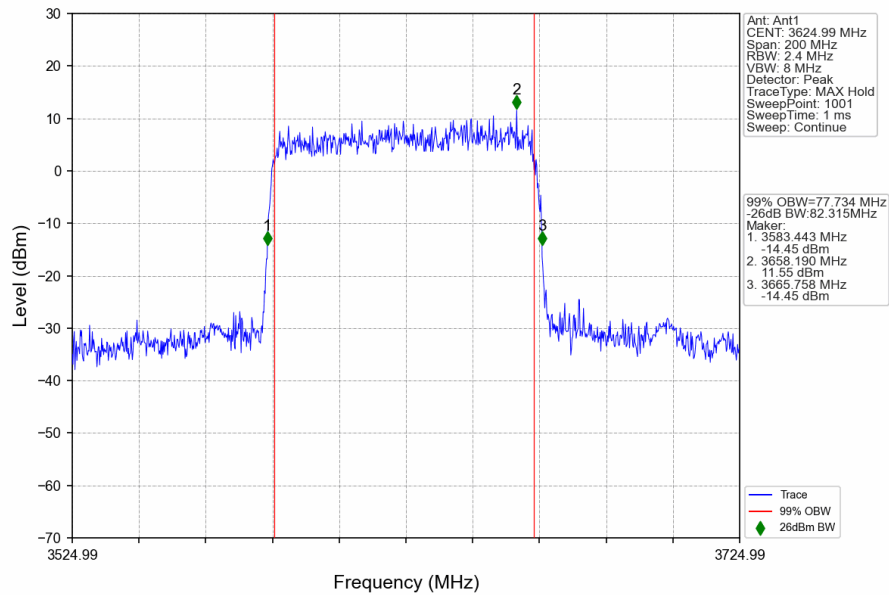
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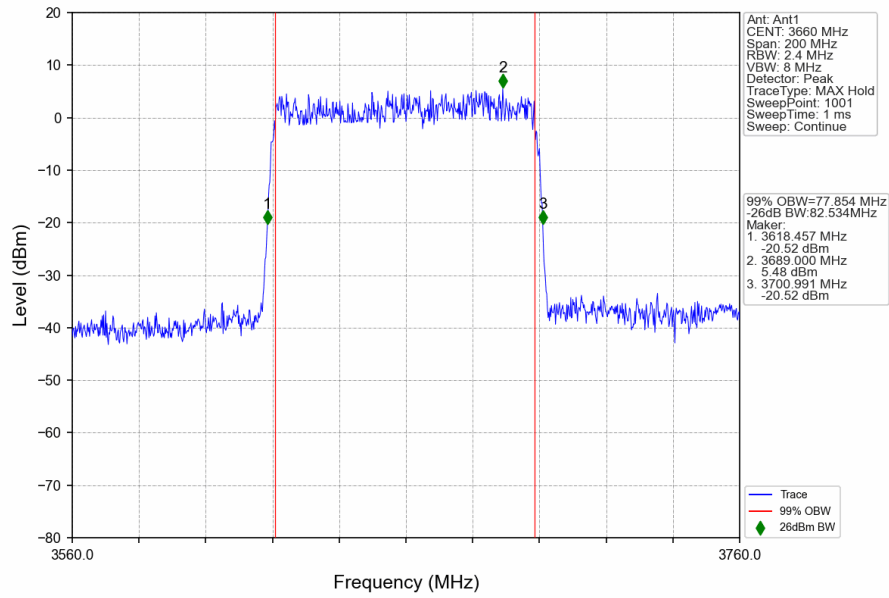
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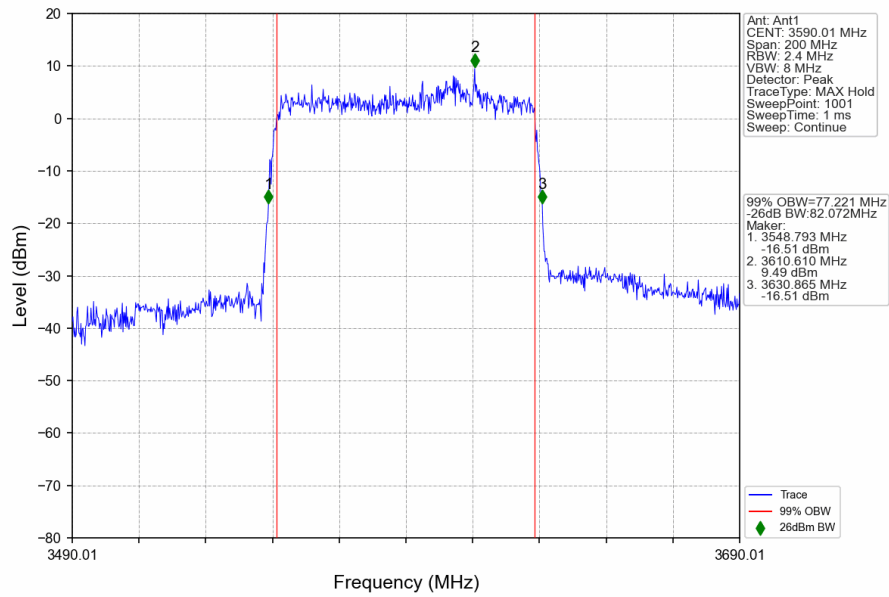
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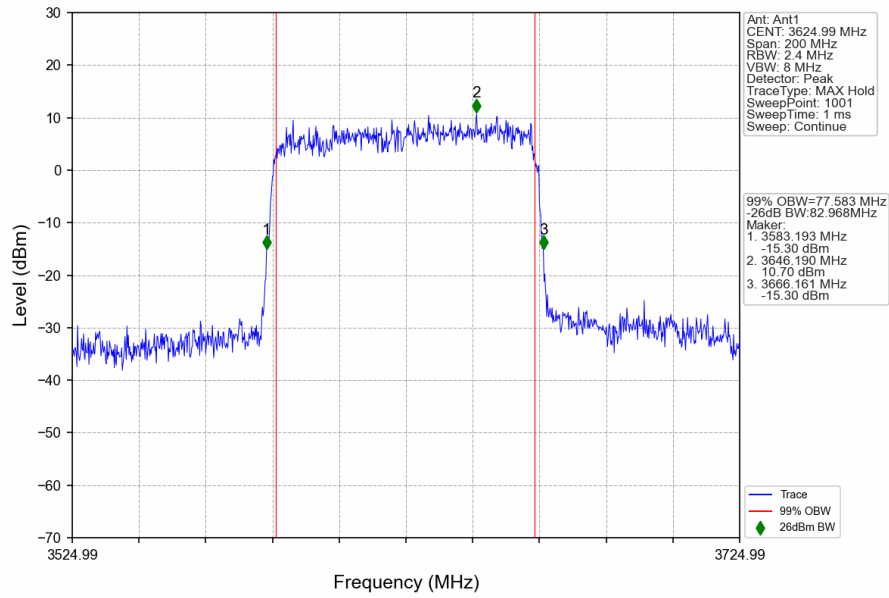
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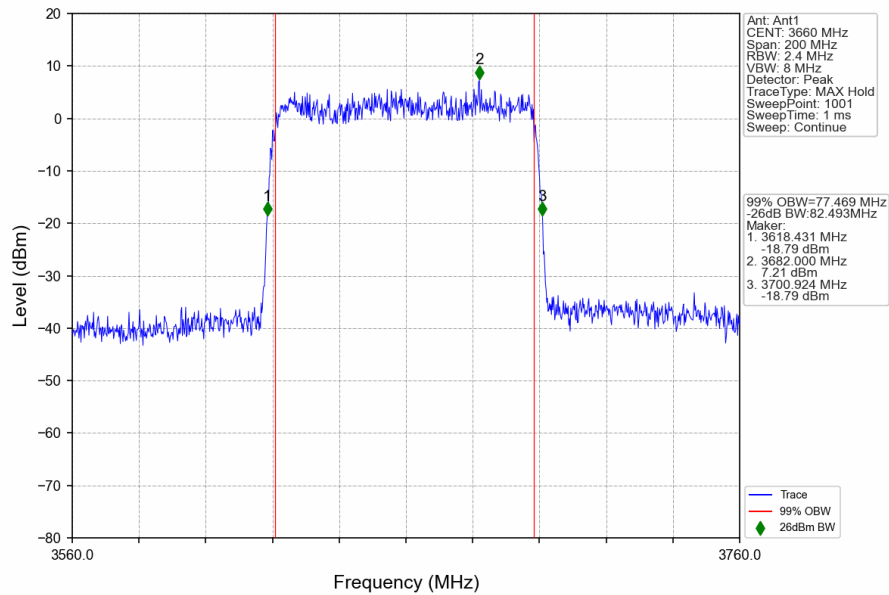
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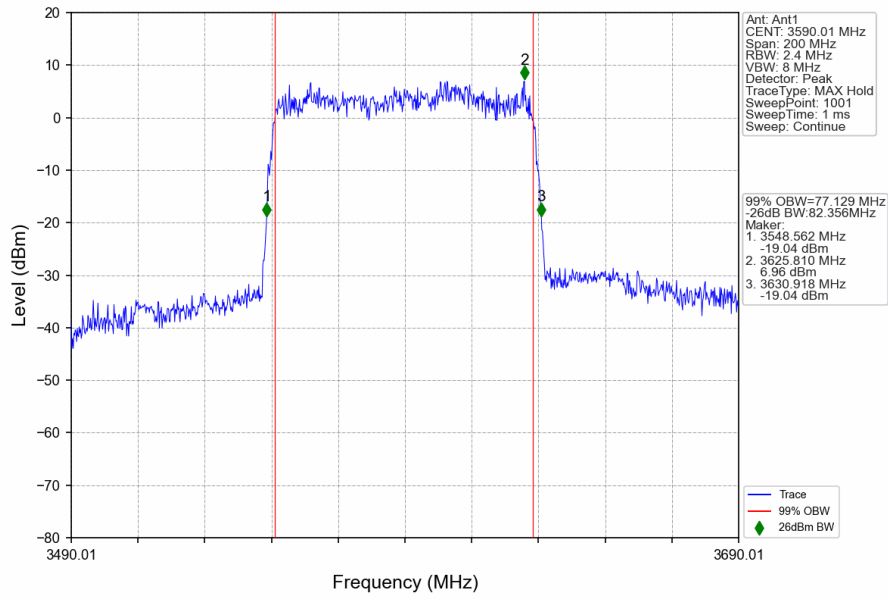
n78d_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM 64 QAM_3624.99MHz_Outer_Full



n78d_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM 64 QAM_3660MHz_Outer_Full



n78d_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM 256 QAM_3590.01MHz_Outer_Full



n78d_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM 256 QAM_3624.99MHz_Outer_Full

