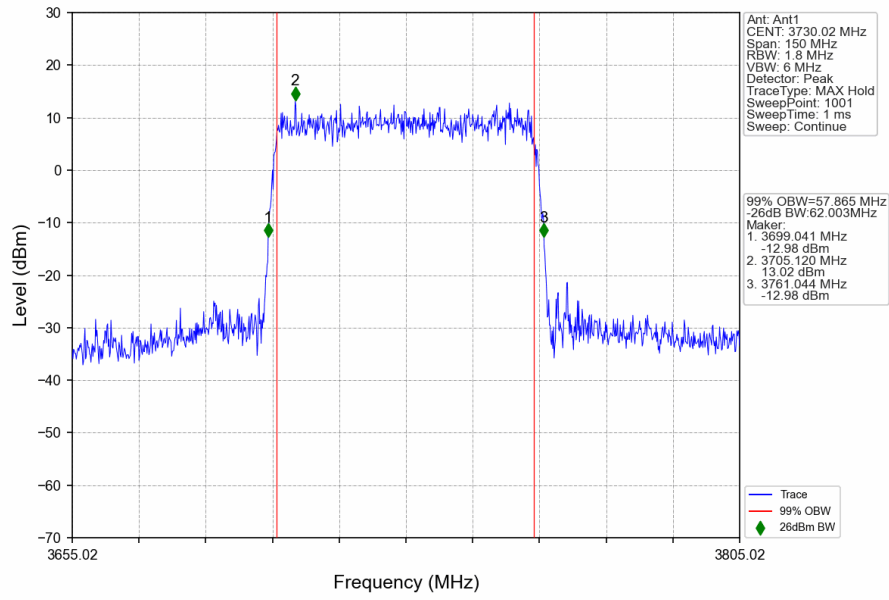
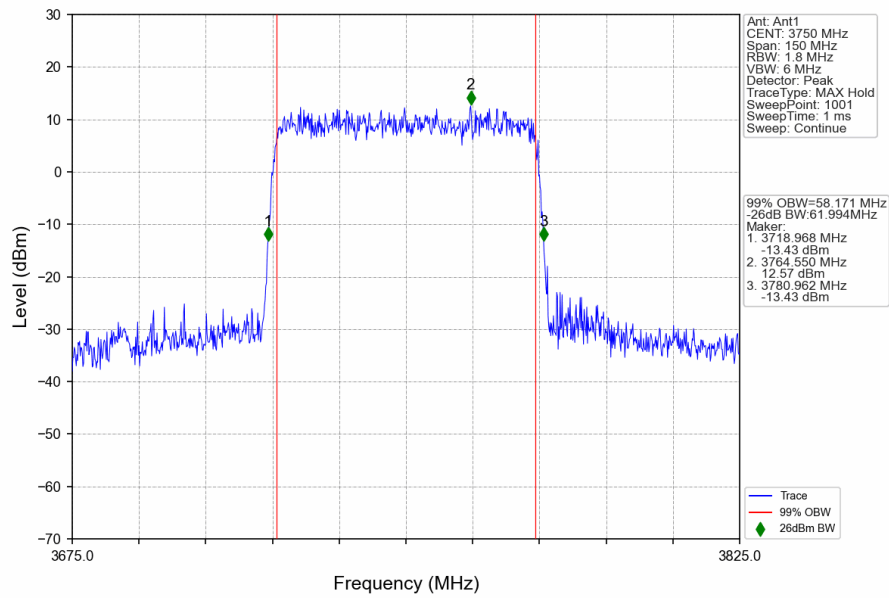


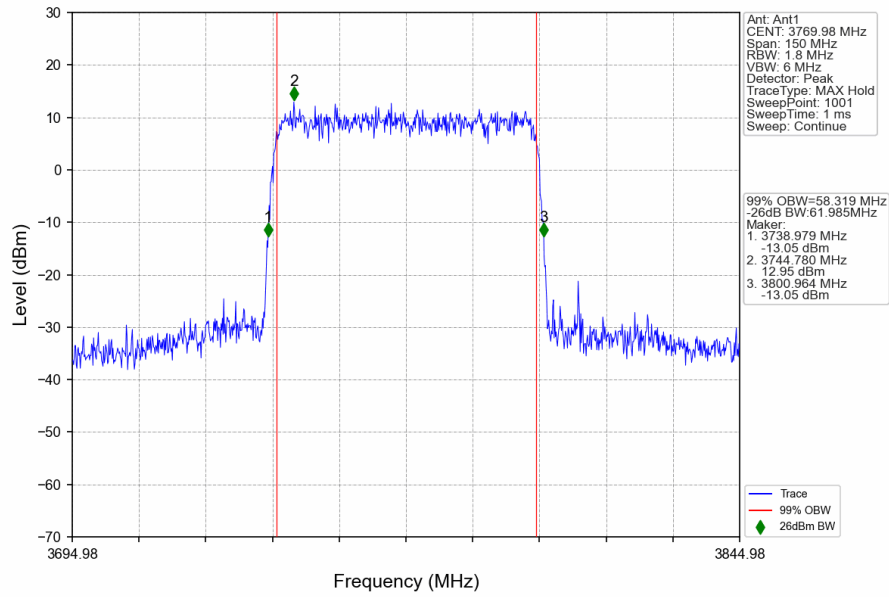
n78a_30kHz_SISO_NTNV_60MHz_CP-OFDM 64 QAM_3730.02MHz_Outer_Full



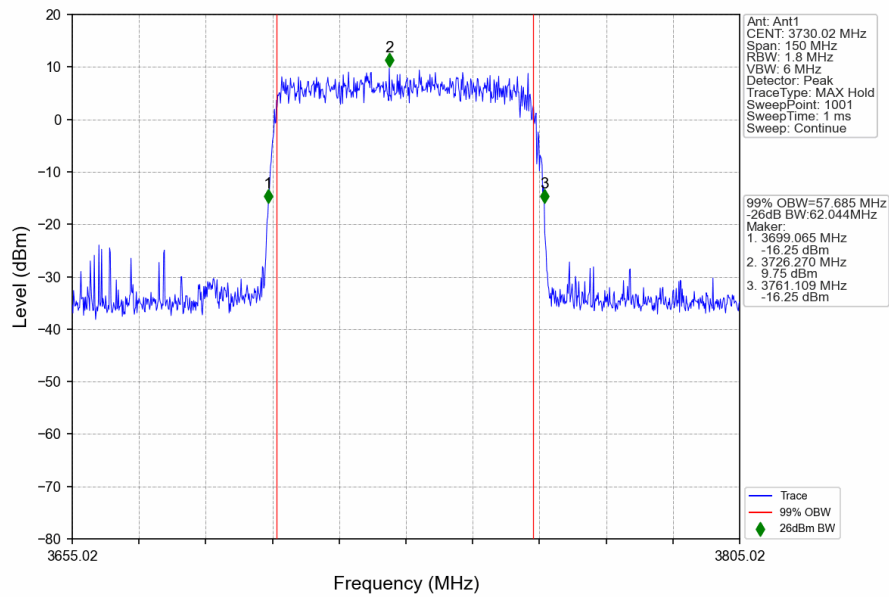
n78a_30kHz_SISO_NTNV_60MHz_CP-OFDM 64 QAM_3750MHz_Outer_Full



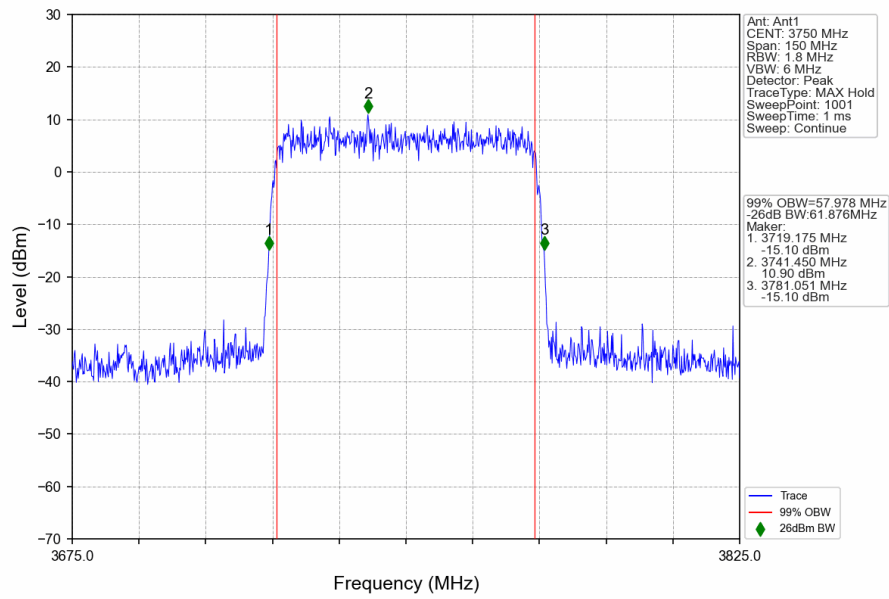
n78a_30kHz_SISO_NTNV_60MHz_CP-OFDM 64 QAM_3769.98MHz_Outer_Full



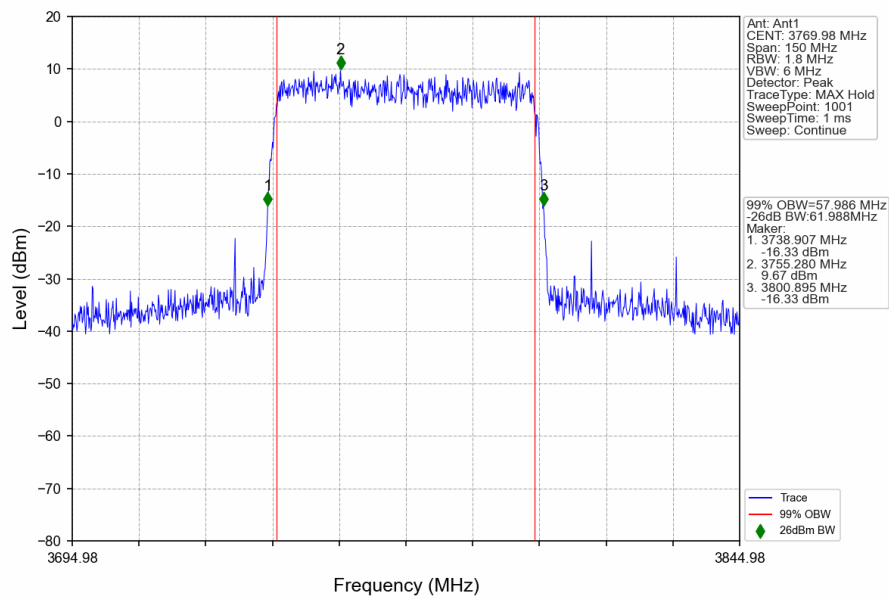
n78a_30kHz_SISO_NTNV_60MHz_CP-OFDM 256 QAM_3730.02MHz_Outer_Full



n78a_30kHz_SISO_NTNV_60MHz_CP-OFDM 256 QAM_3750MHz_Outer_Full



n78a_30kHz_SISO_NTNV_60MHz_CP-OFDM 256 QAM_3769.98MHz_Outer_Full

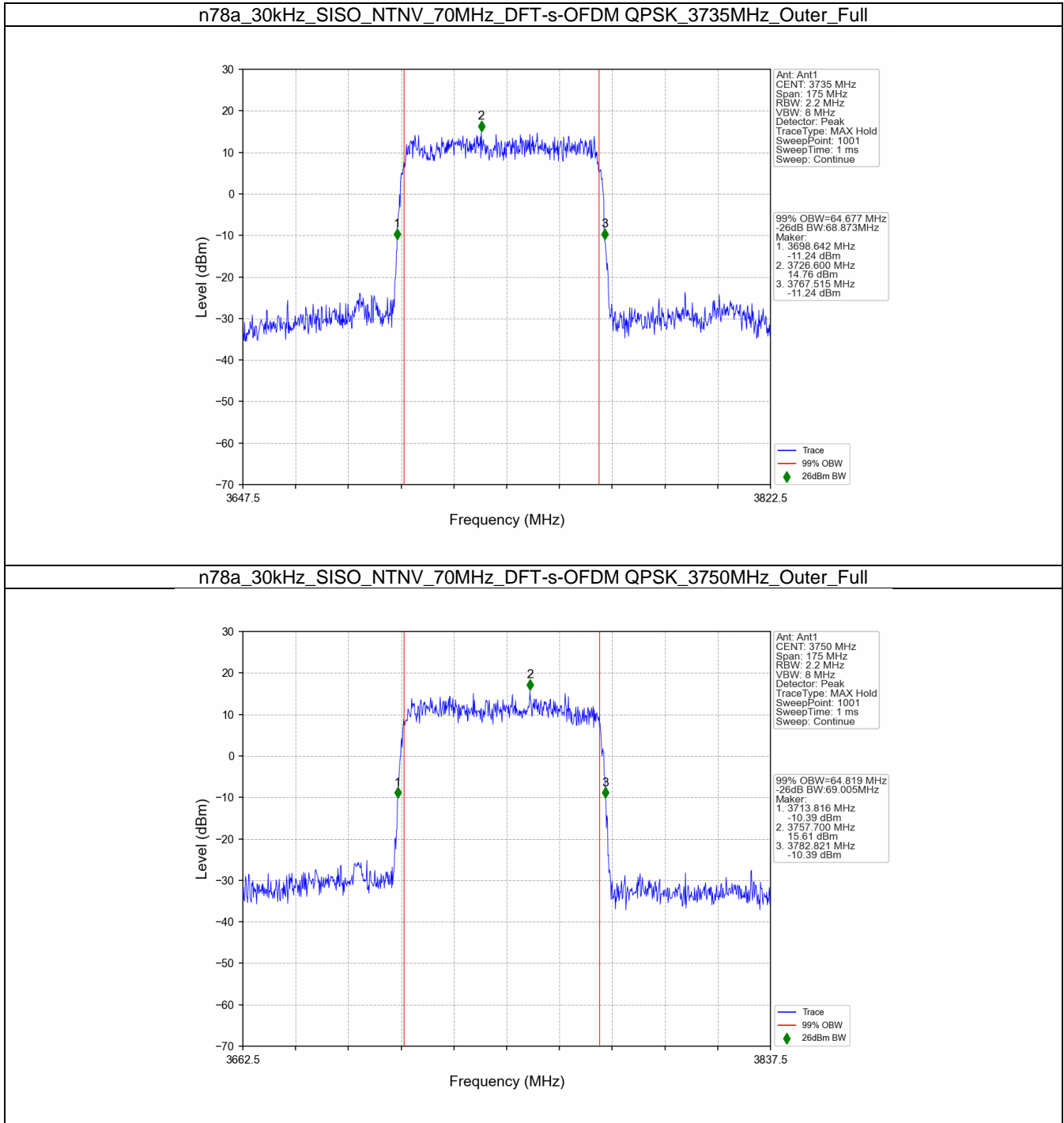


1.6 30k_SISO_70MHz_NTNV

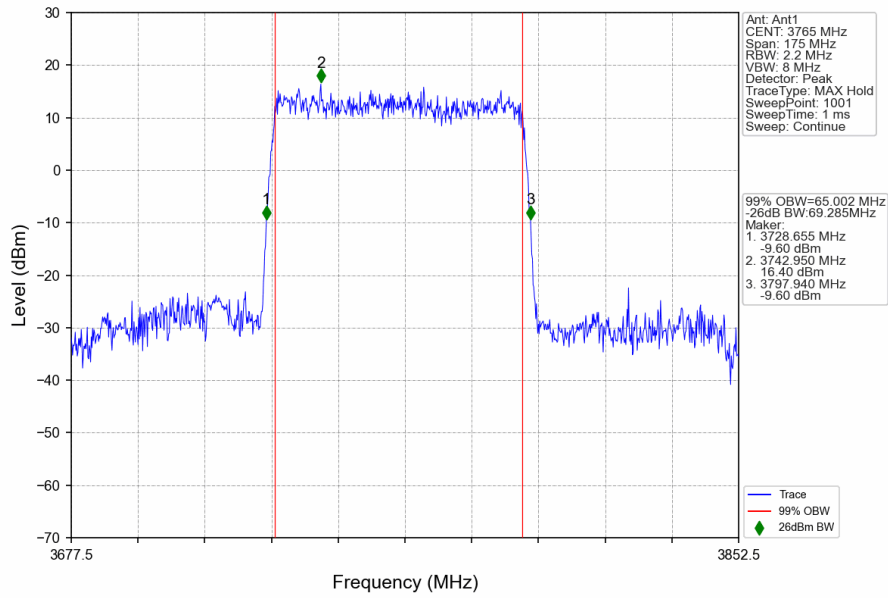
1.6.1 Test Result

5G NR n78a SCS=30kHz SISO 70MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM QPSK	3735	Outer_Full	64.68	68.87	/	Pass
	3750	Outer_Full	64.82	69.00	/	Pass
	3765	Outer_Full	65.00	69.28	/	Pass
DFT-s-OFDM 64 QAM	3735	Outer_Full	64.76	69.43	/	Pass
	3750	Outer_Full	64.96	116.66	/	Pass
	3765	Outer_Full	64.92	69.44	/	Pass
DFT-s-OFDM 256 QAM	3735	Outer_Full	64.69	69.69	/	Pass
	3750	Outer_Full	65.08	100.96	/	Pass
	3765	Outer_Full	65.07	69.29	/	Pass
CP-OFDM QPSK	3735	Outer_Full	67.61	72.43	/	Pass
	3750	Outer_Full	68.25	72.54	/	Pass
	3765	Outer_Full	67.99	72.40	/	Pass
CP-OFDM 64 QAM	3735	Outer_Full	67.86	72.51	/	Pass
	3750	Outer_Full	67.80	72.14	/	Pass
	3765	Outer_Full	67.97	72.05	/	Pass
CP-OFDM 256 QAM	3735	Outer_Full	68.17	72.48	/	Pass
	3750	Outer_Full	67.90	118.27	/	Pass
	3765	Outer_Full	68.07	72.09	/	Pass

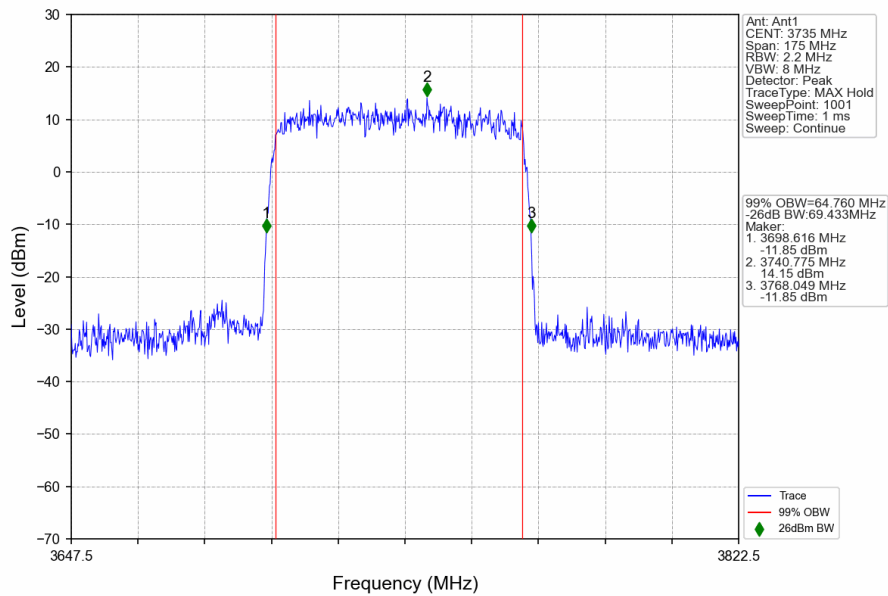
1.6.2 Test Graph



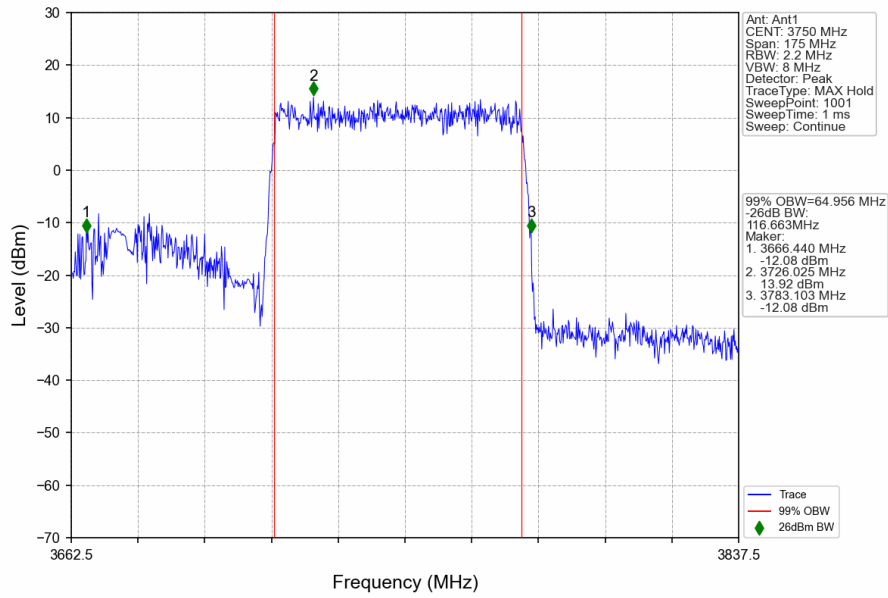
n78a_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM QPSK_3765MHz_Outer_Full



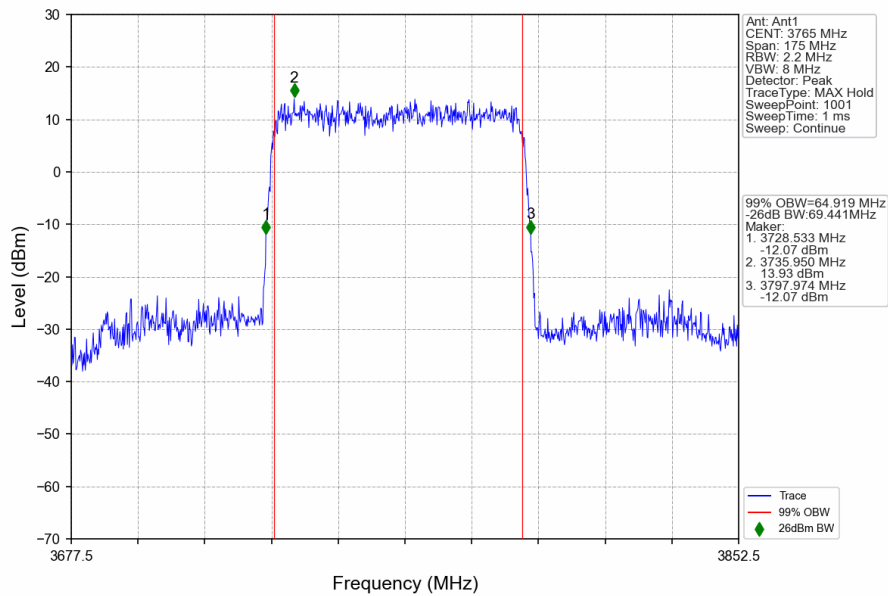
n78a_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM 64 QAM_3735MHz_Outer_Full



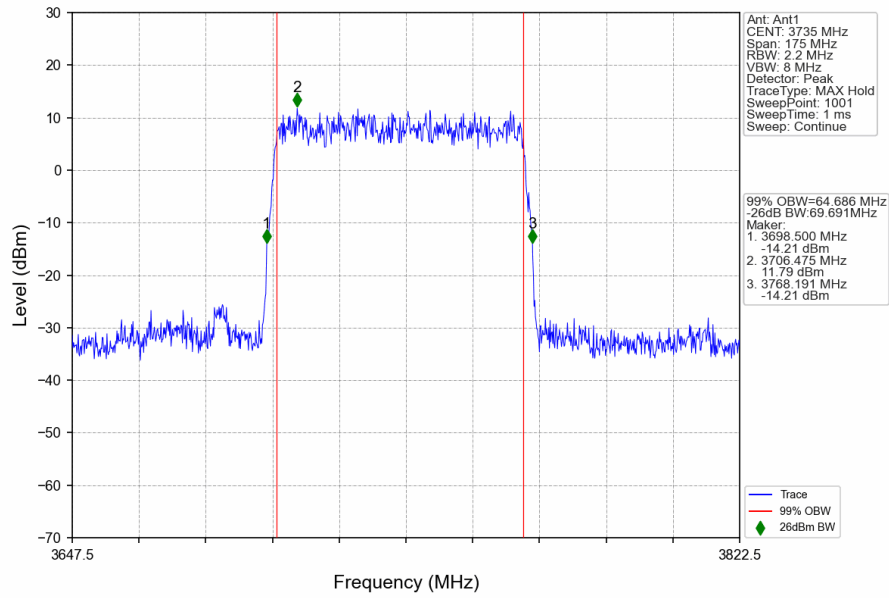
n78a_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM 64 QAM_3750MHz_Outer_Full



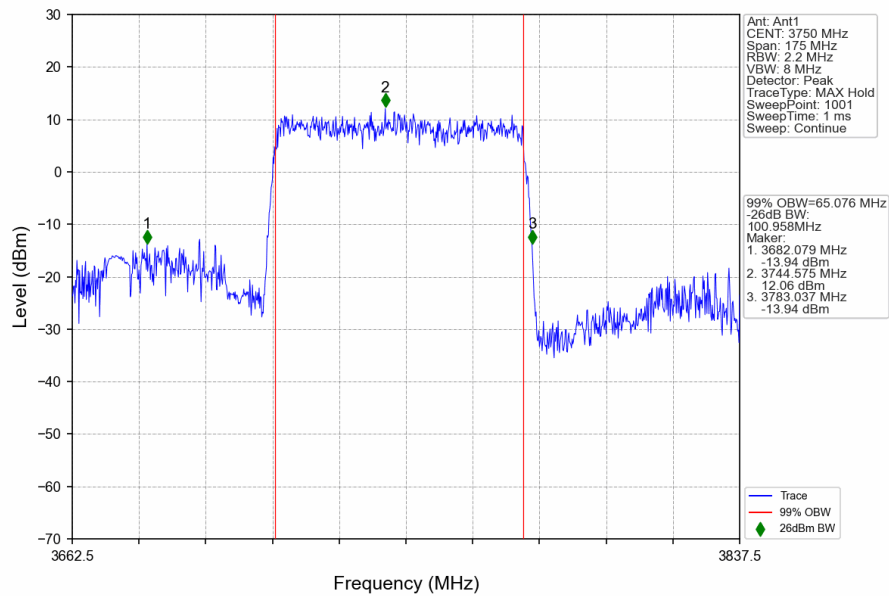
n78a_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM 64 QAM_3765MHz_Outer_Full



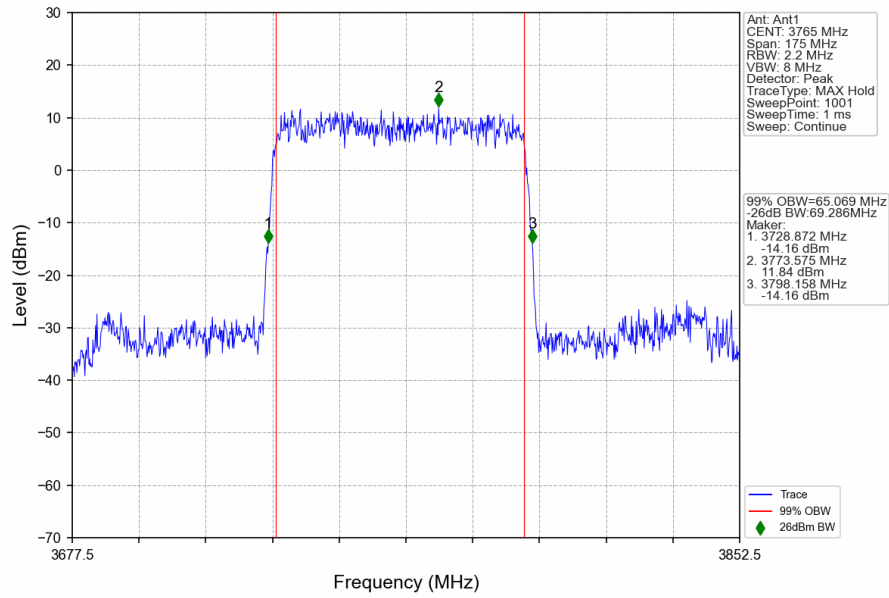
n78a_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM 256 QAM_3735MHz_Outer_Full



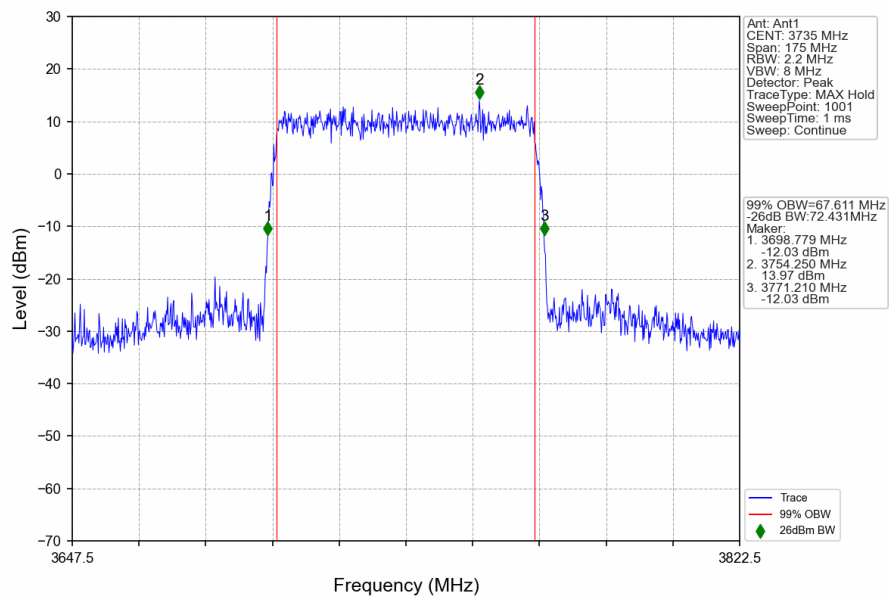
n78a_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM 256 QAM_3750MHz_Outer_Full



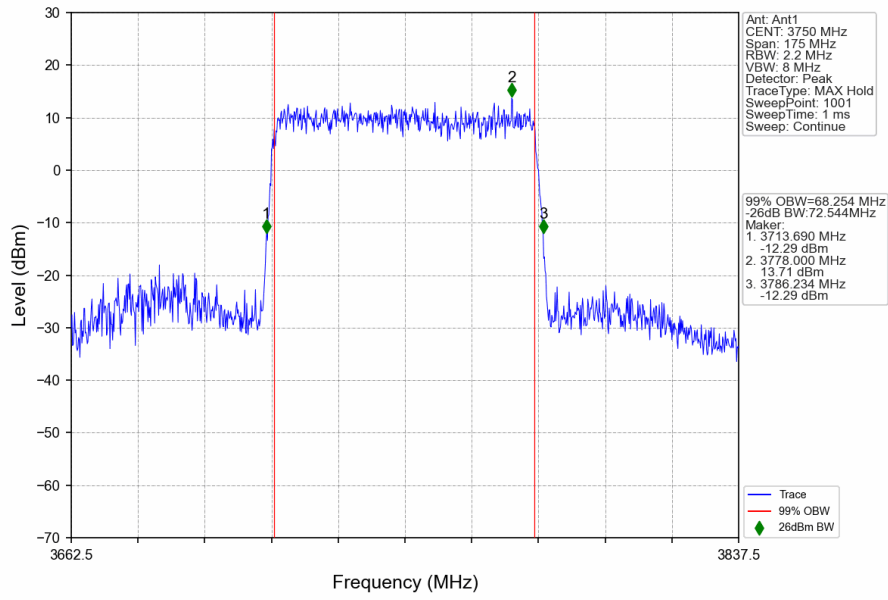
n78a_30kHz_SISO_NTNV_70MHz_DFT-s-OFDM 256 QAM_3765MHz_Outer_Full



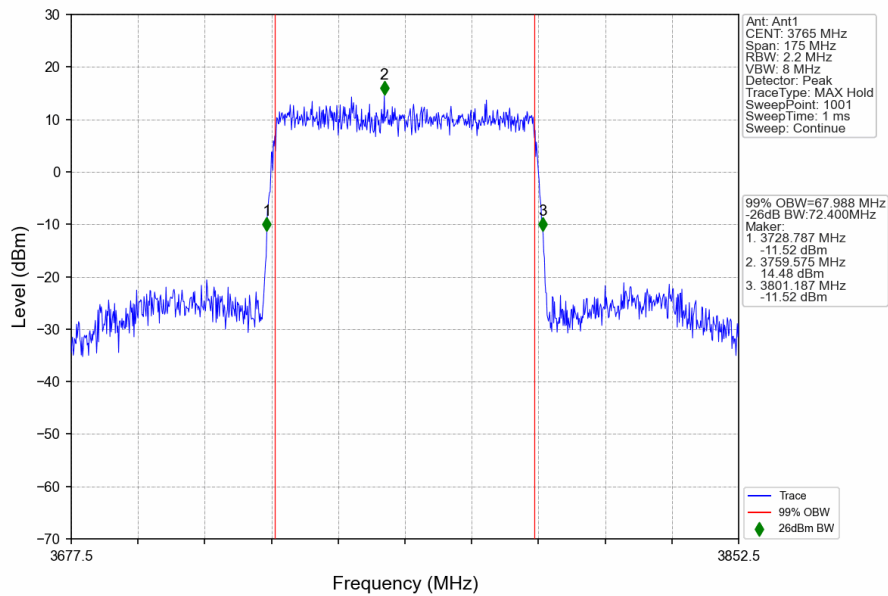
n78a_30kHz_SISO_NTNV_70MHz_CP-OFDM QPSK_3735MHz_Outer_Full



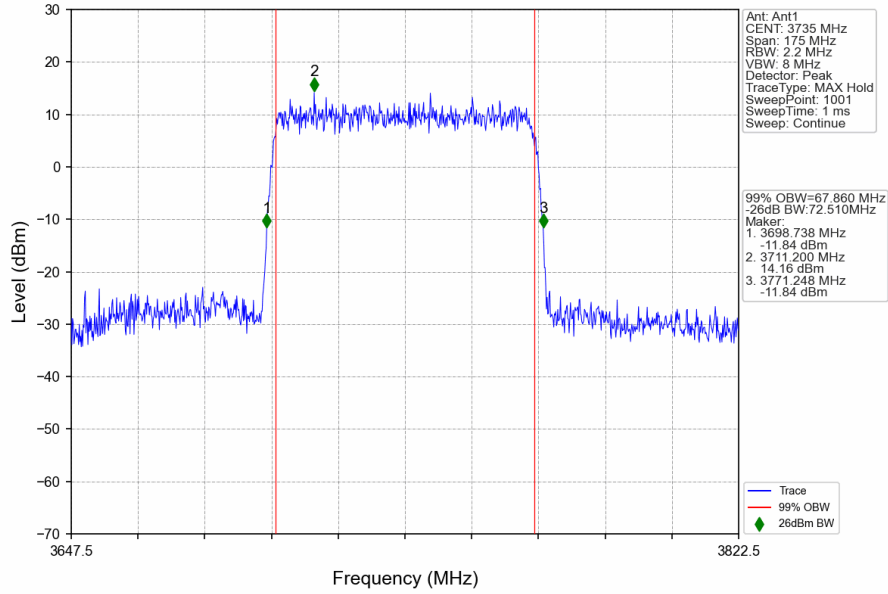
n78a_30kHz_SISO_NTNV_70MHz_CP-OFDM QPSK_3750MHz_Outer_Full



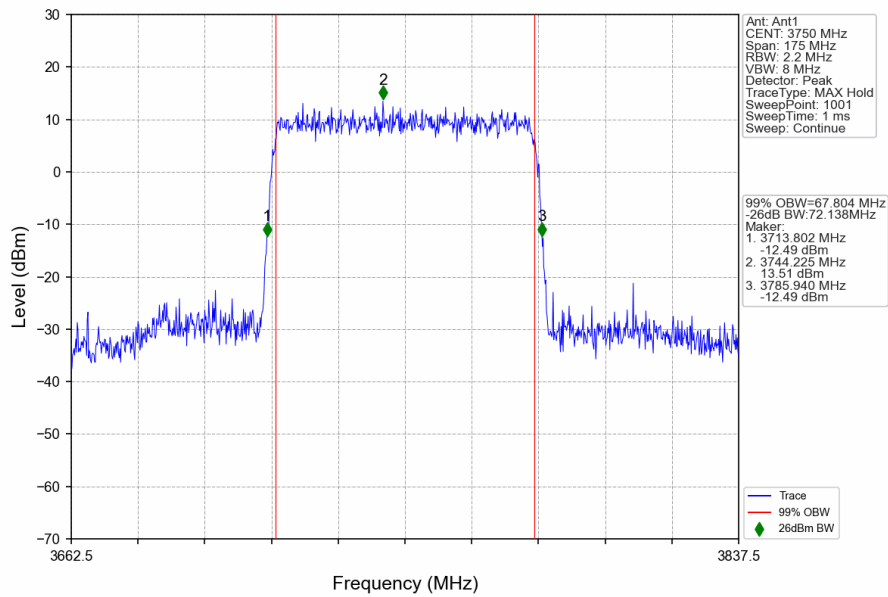
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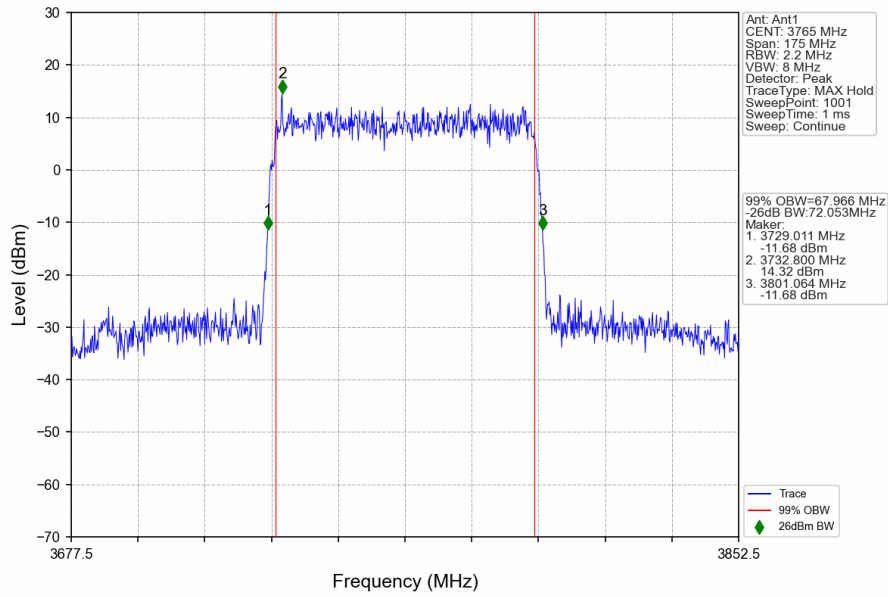
n78a_30kHz_SISO_NTNV_70MHz_CP-OFDM 64 QAM_3735MHz_Outer_Full



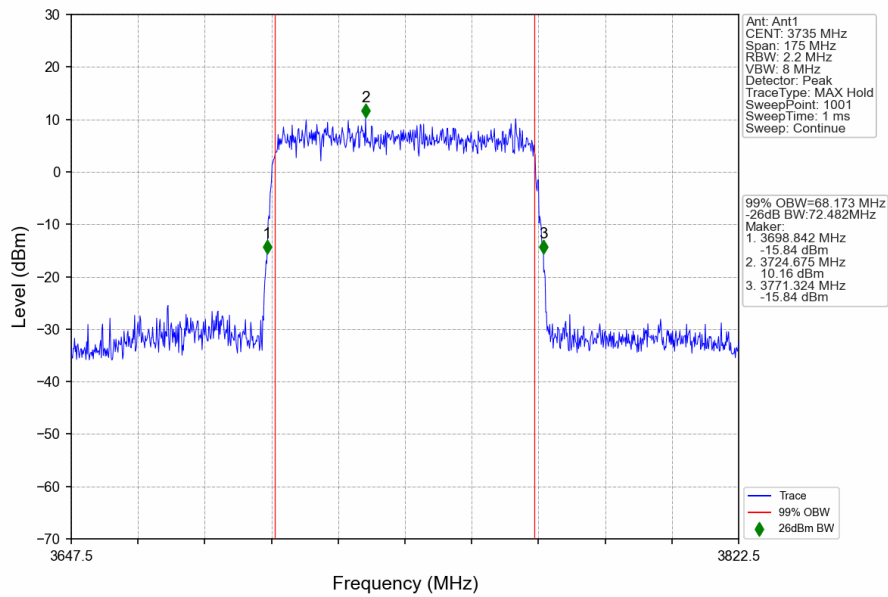
n78a_30kHz_SISO_NTNV_70MHz_CP-OFDM 64 QAM_3750MHz_Outer_Full



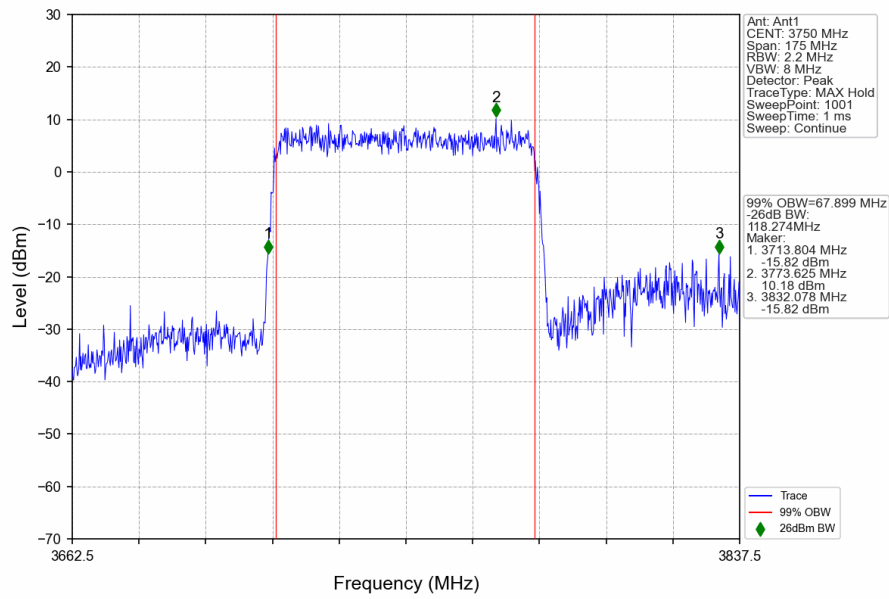
n78a_30kHz_SISO_NTNV_70MHz_CP-OFDM 64 QAM_3765MHz_Outer_Full



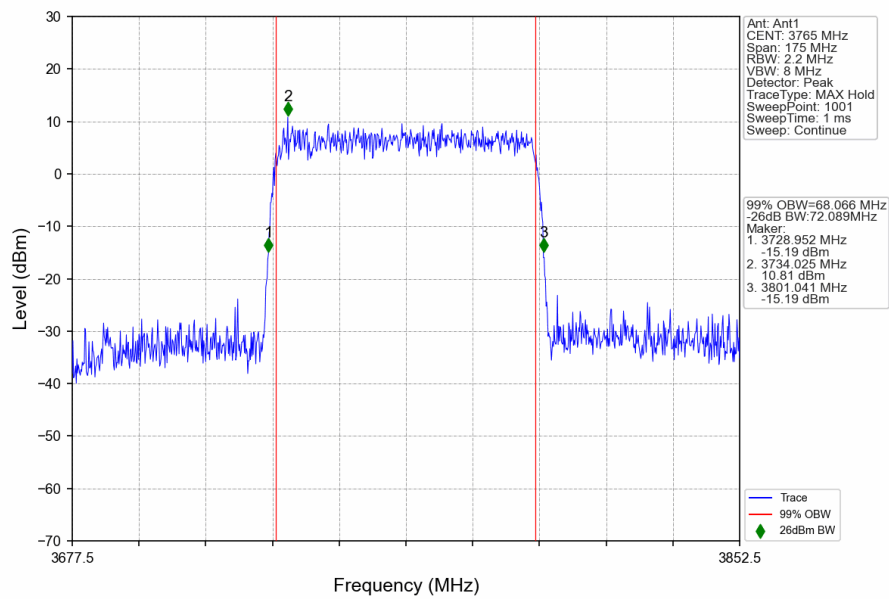
n78a_30kHz_SISO_NTNV_70MHz_CP-OFDM 256 QAM_3735MHz_Outer_Full



n78a_30kHz_SISO_NTNV_70MHz_CP-OFDM 256 QAM_3750MHz_Outer_Full



n78a_30kHz_SISO_NTNV_70MHz_CP-OFDM 256 QAM_3765MHz_Outer_Full

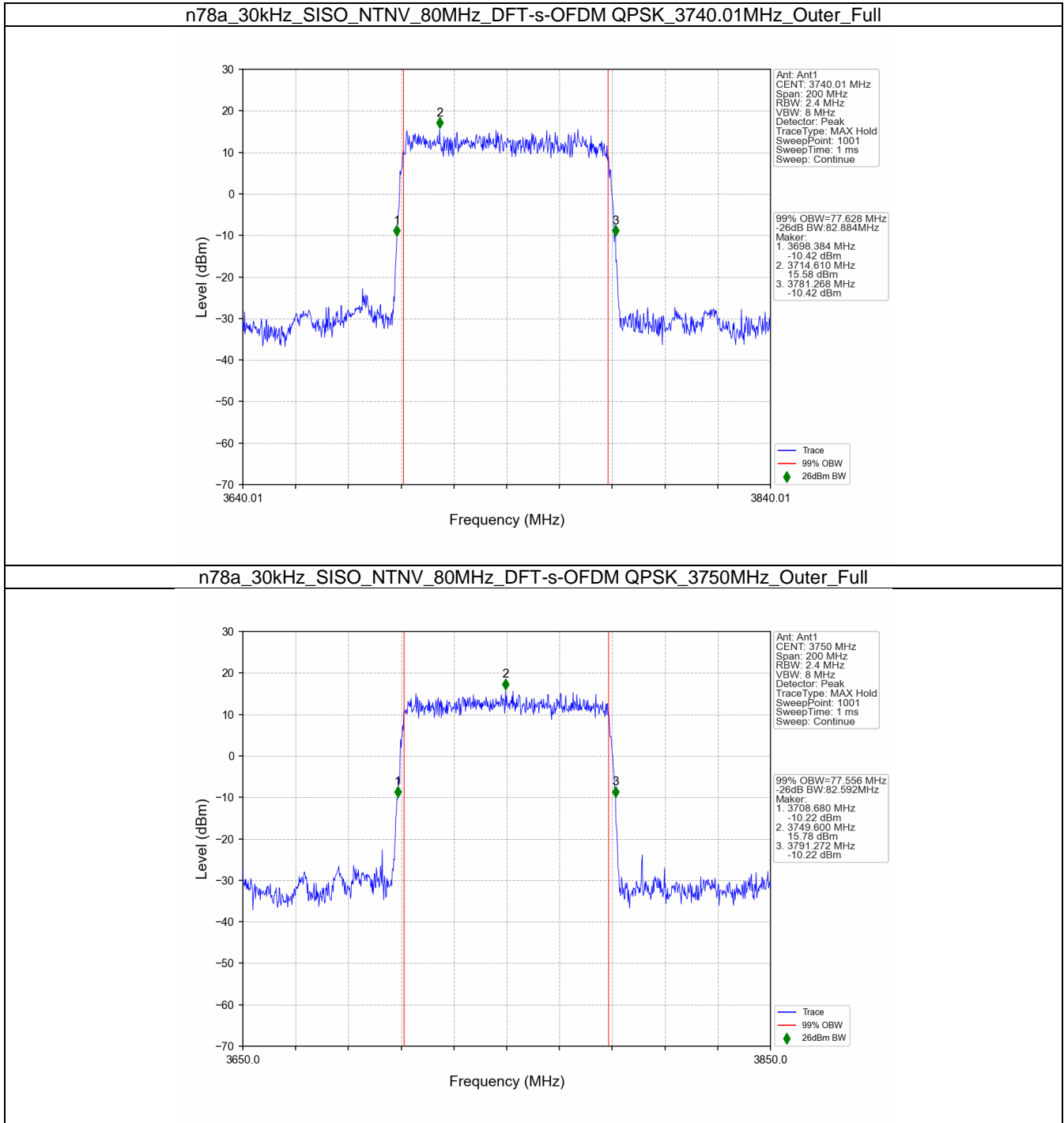


1.7 30k_SISO_80MHz_NTNV

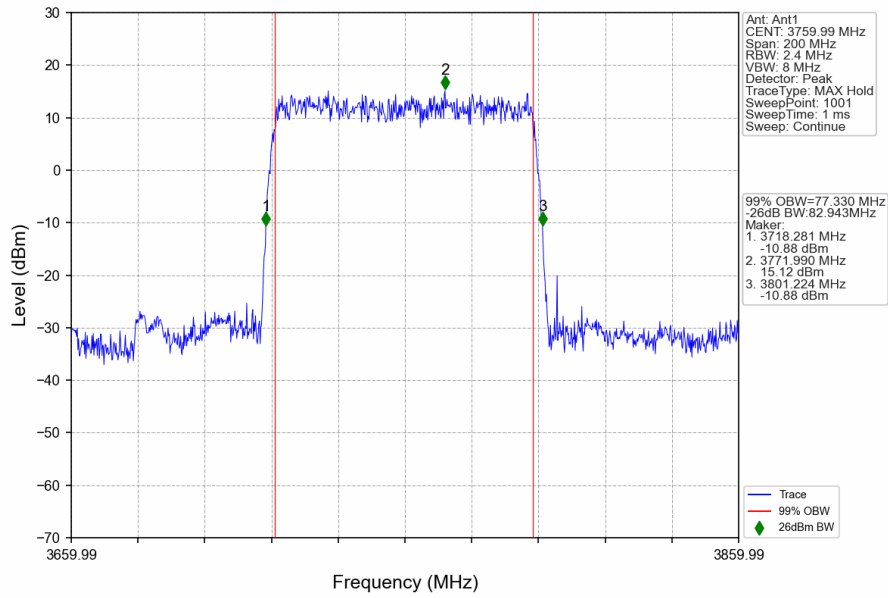
1.7.1 Test Result

5G NR n78a SCS=30kHz SISO 80MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM QPSK	3740.01	Outer_Full	77.63	82.88	/	Pass
	3750	Outer_Full	77.56	82.59	/	Pass
	3759.99	Outer_Full	77.33	82.94	/	Pass
DFT-s-OFDM 64 QAM	3740.01	Outer_Full	77.42	82.77	/	Pass
	3750	Outer_Full	77.83	83.09	/	Pass
	3759.99	Outer_Full	77.91	82.49	/	Pass
DFT-s-OFDM 256 QAM	3740.01	Outer_Full	77.59	82.65	/	Pass
	3750	Outer_Full	77.54	82.64	/	Pass
	3759.99	Outer_Full	77.77	82.50	/	Pass
CP-OFDM QPSK	3740.01	Outer_Full	77.62	82.91	/	Pass
	3750	Outer_Full	77.86	82.84	/	Pass
	3759.99	Outer_Full	78.07	82.92	/	Pass
CP-OFDM 64 QAM	3740.01	Outer_Full	77.90	83.19	/	Pass
	3750	Outer_Full	78.07	83.04	/	Pass
	3759.99	Outer_Full	77.82	82.87	/	Pass
CP-OFDM 256 QAM	3740.01	Outer_Full	77.91	83.19	/	Pass
	3750	Outer_Full	77.85	82.94	/	Pass
	3759.99	Outer_Full	77.72	83.08	/	Pass

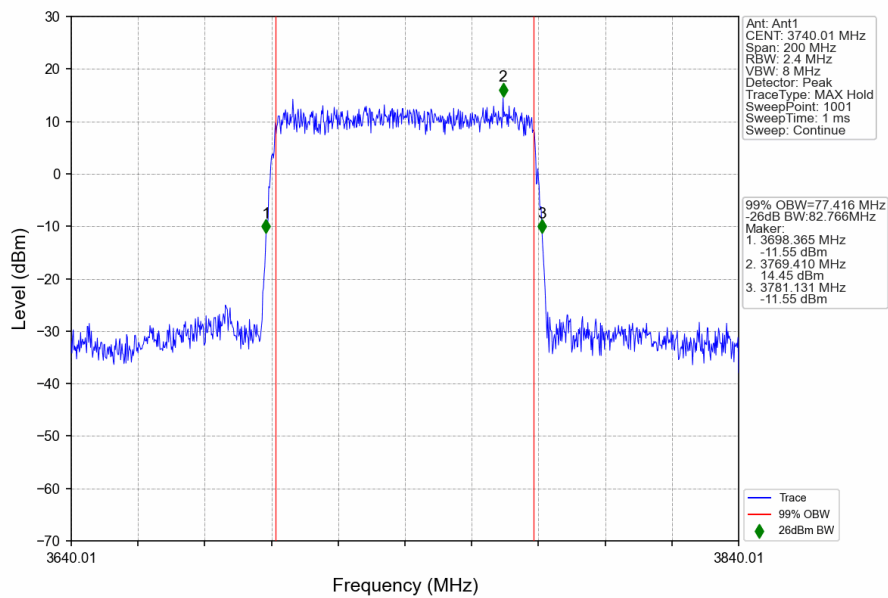
1.7.2 Test Graph



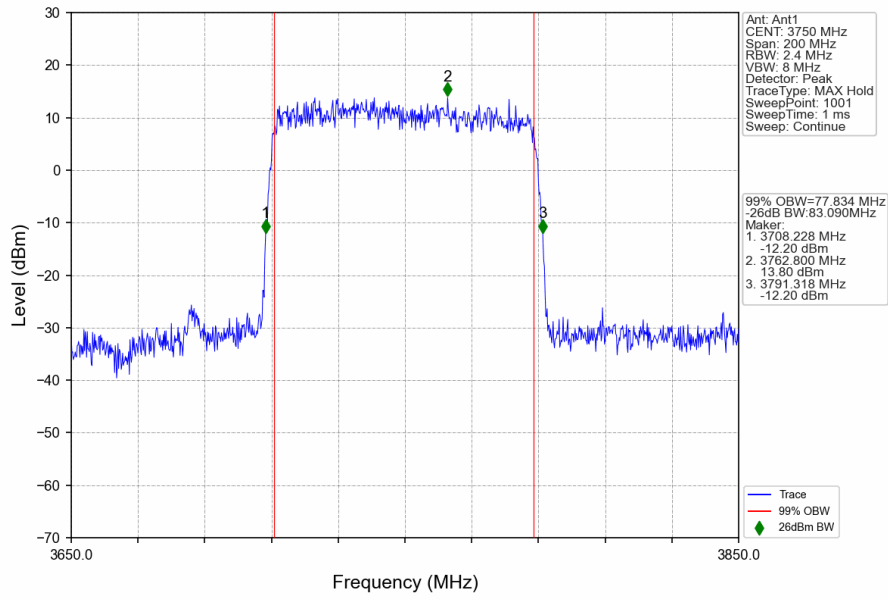
n78a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM QPSK_3759.99MHz_Outer_Full



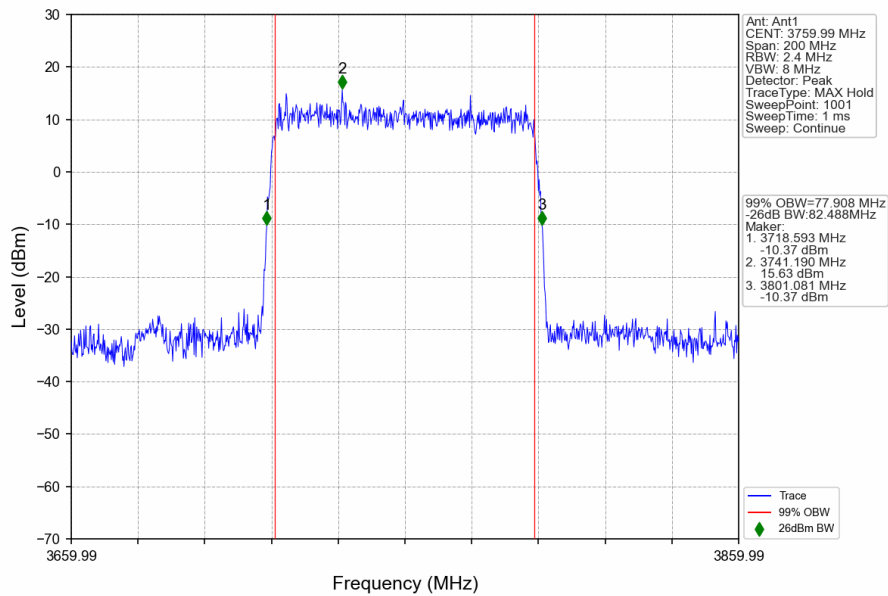
n78a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM 64 QAM_3740.01MHz_Outer_Full



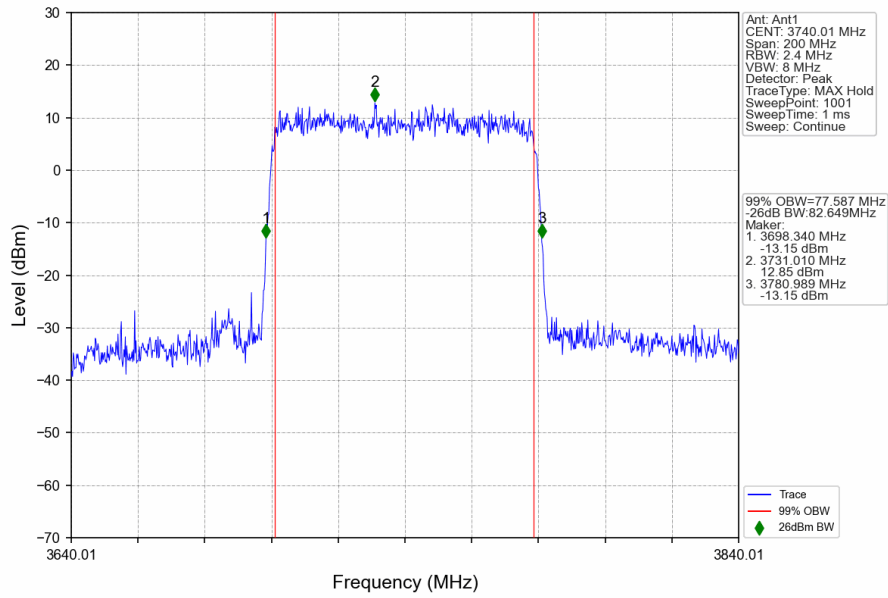
n78a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM 64 QAM_3750MHz_Outer_Full



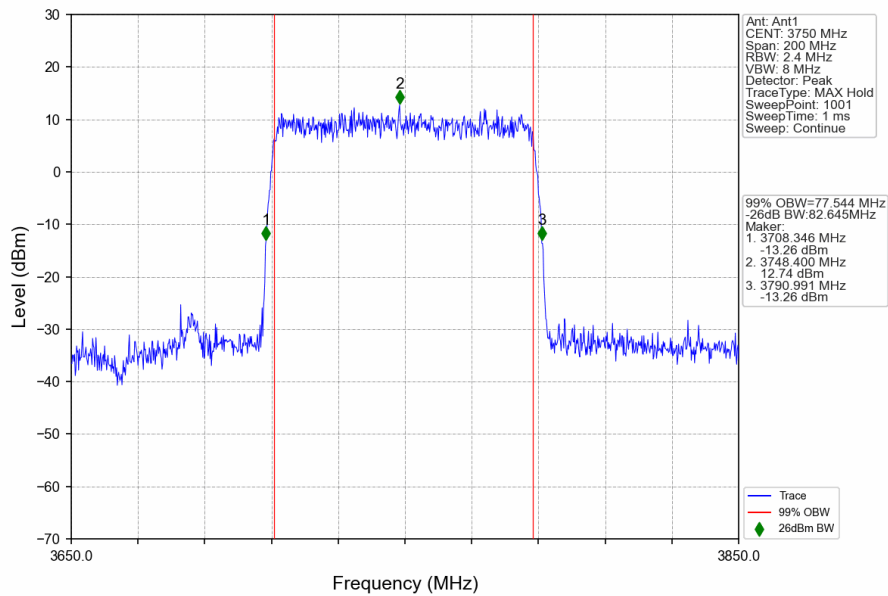
n78a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM 64 QAM_3759.99MHz_Outer_Full



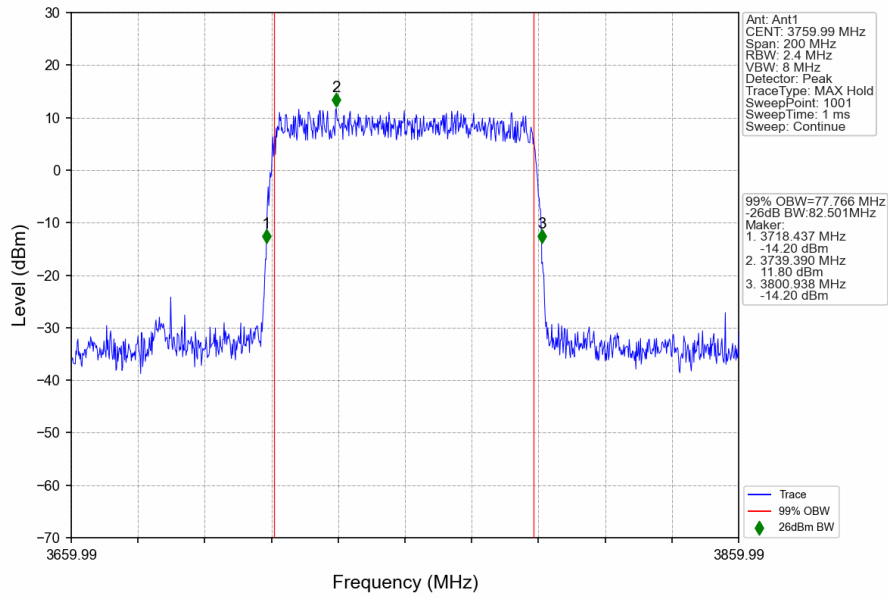
n78a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_256_QAM_3740.01MHz_Outer_Full



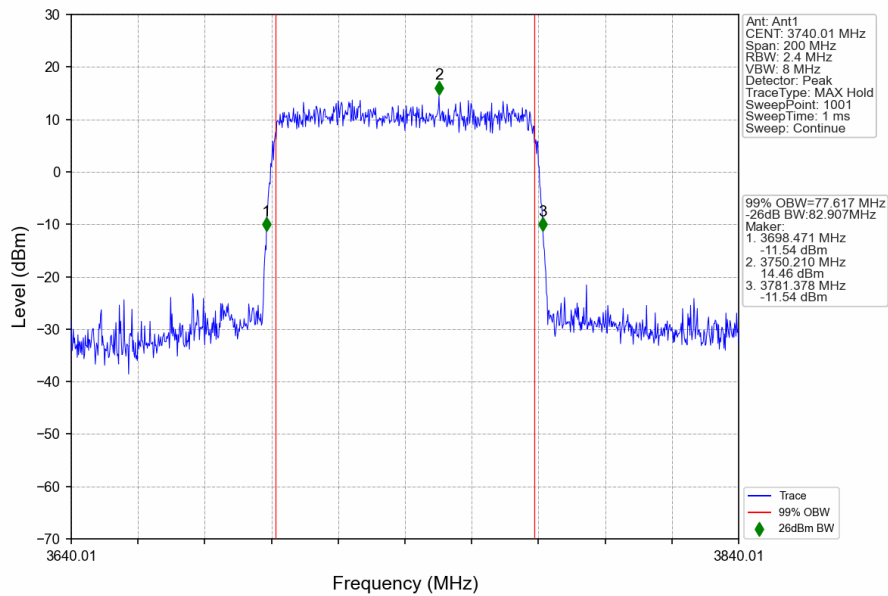
n78a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_256_QAM_3750MHz_Outer_Full



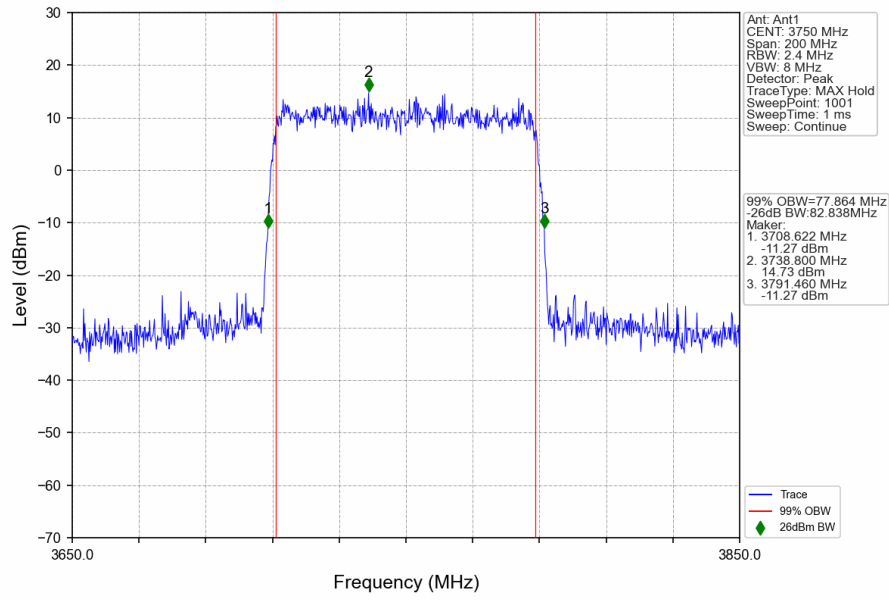
n78a_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM 256 QAM_3759.99MHz_Outer_Full



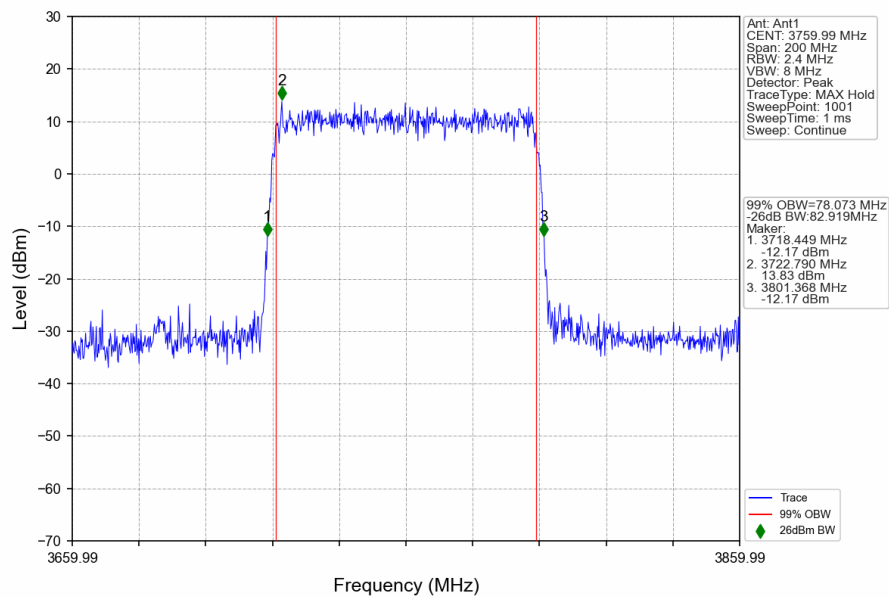
n78a_30kHz_SISO_NTNV_80MHz_CP-OFDM QPSK_3740.01MHz_Outer_Full



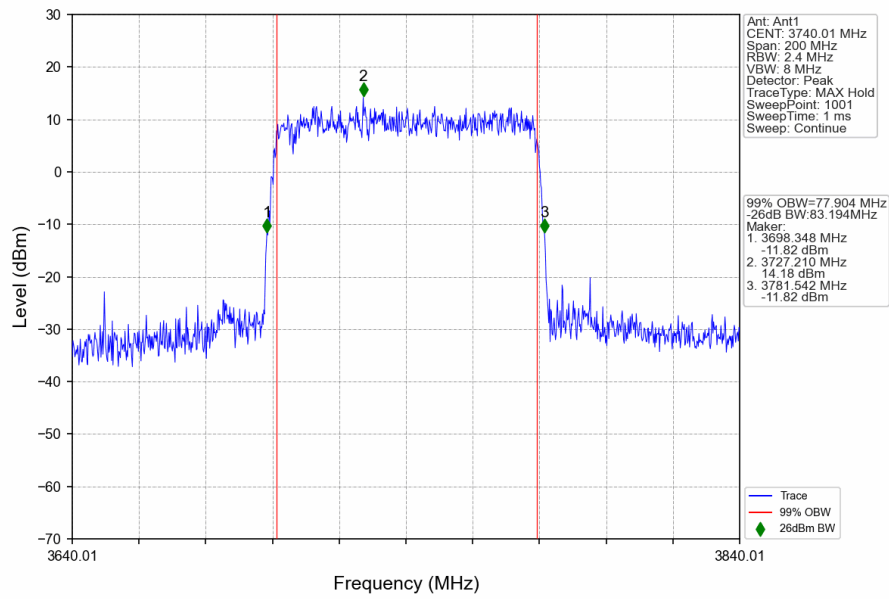
n78a_30kHz_SISO_NTNV_80MHz_CP-OFDM QPSK_3750MHz_Outer_Full



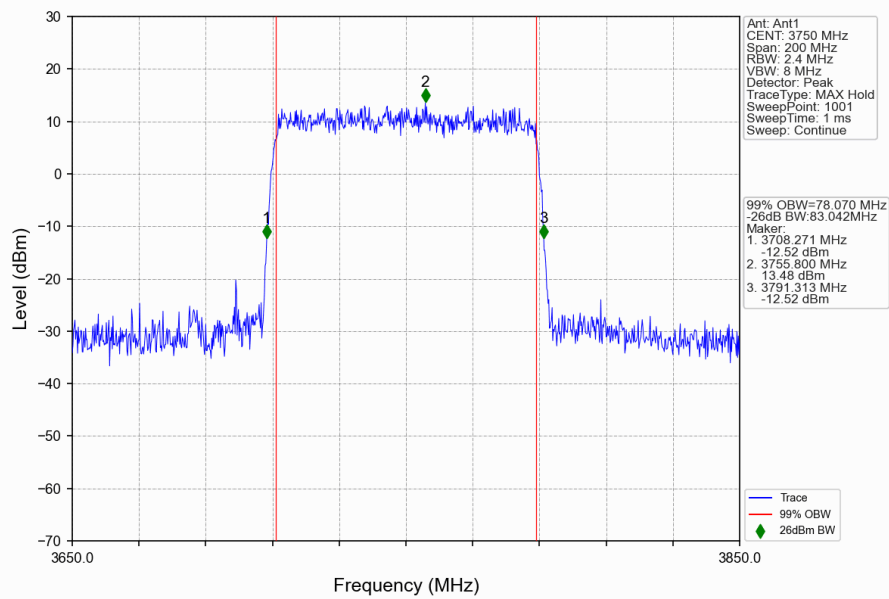
n78a_30kHz_SISO_NTNV_80MHz_CP-OFDM QPSK_3759.99MHz_Outer_Full



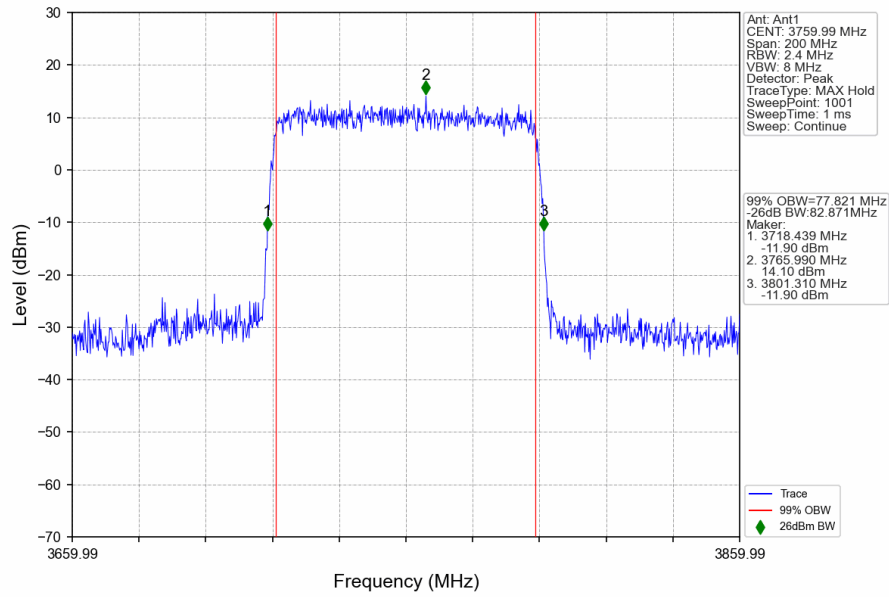
n78a_30kHz_SISO_NTNV_80MHz_CP-OFDM 64 QAM_3740.01MHz_Outer_Full



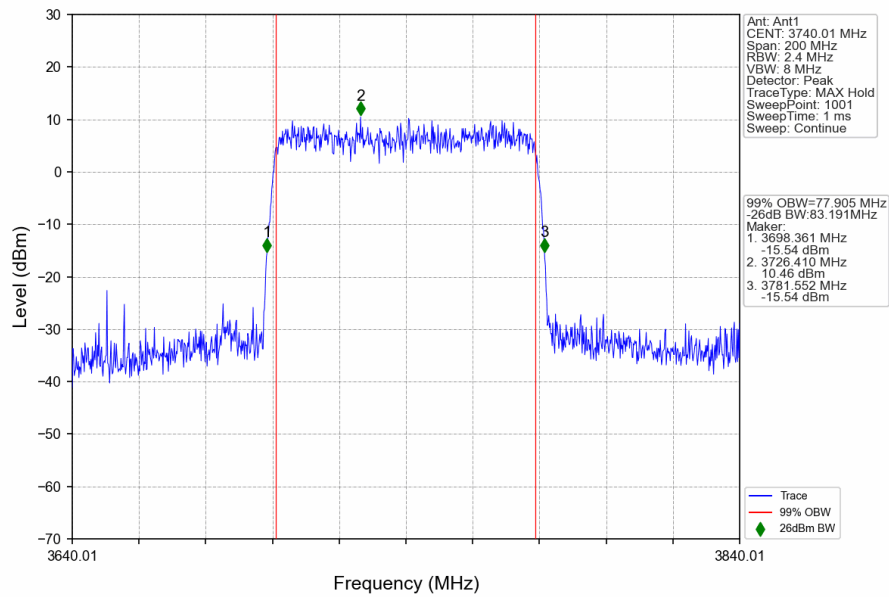
n78a_30kHz_SISO_NTNV_80MHz_CP-OFDM 64 QAM_3750MHz_Outer_Full



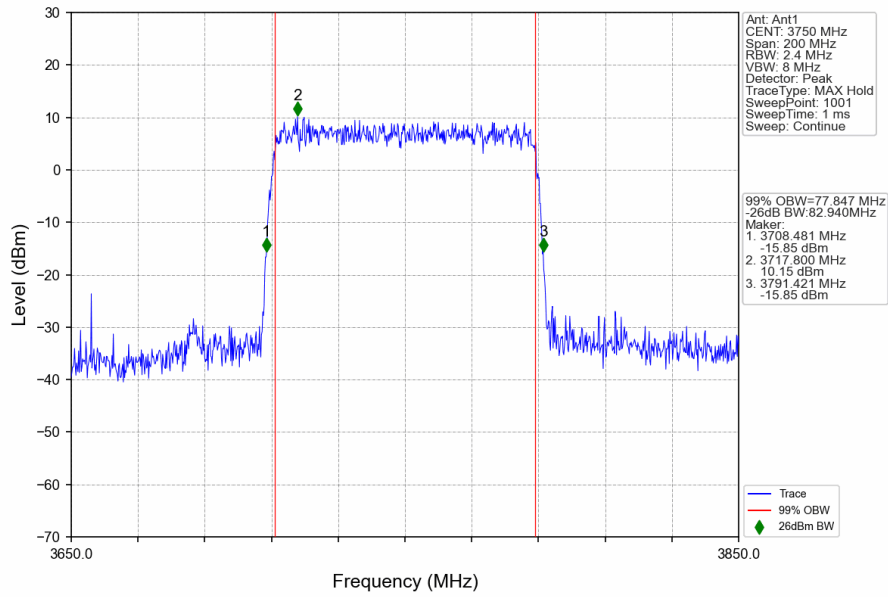
n78a_30kHz_SISO_NTNV_80MHz_CP-OFDM 64 QAM_3759.99MHz_Outer_Full



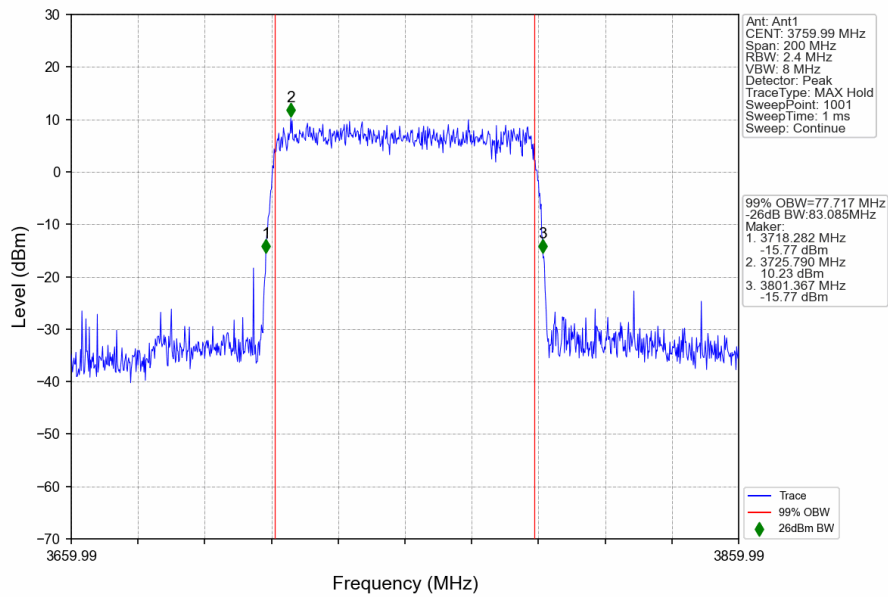
n78a_30kHz_SISO_NTNV_80MHz_CP-OFDM 256 QAM_3740.01MHz_Outer_Full



n78a_30kHz_SISO_NTNV_80MHz_CP-OFDM 256 QAM_3750MHz_Outer_Full



n78a_30kHz_SISO_NTNV_80MHz_CP-OFDM 256 QAM_3759.99MHz_Outer_Full

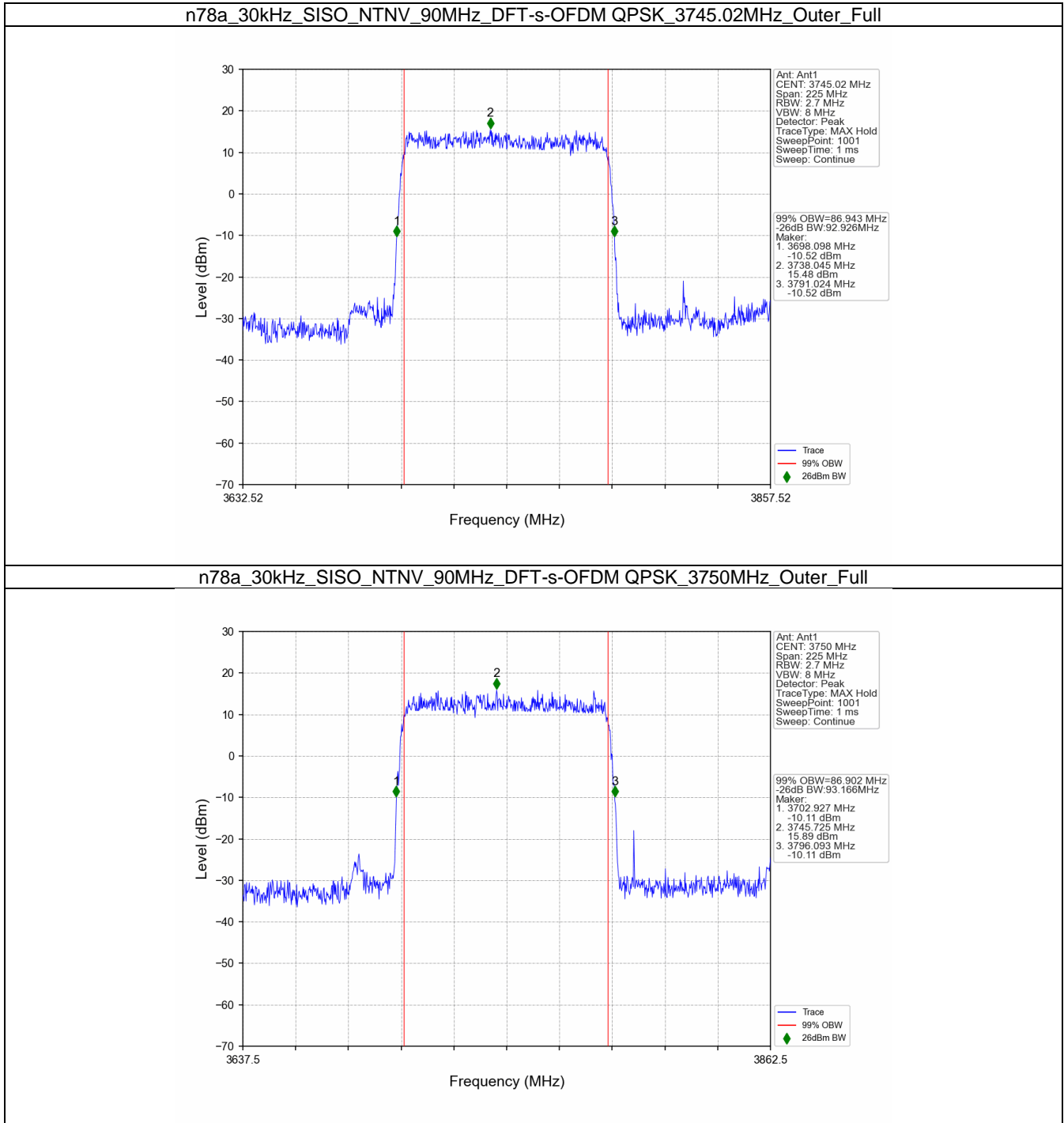


1.8 30k_SISO_90MHz_NTNV

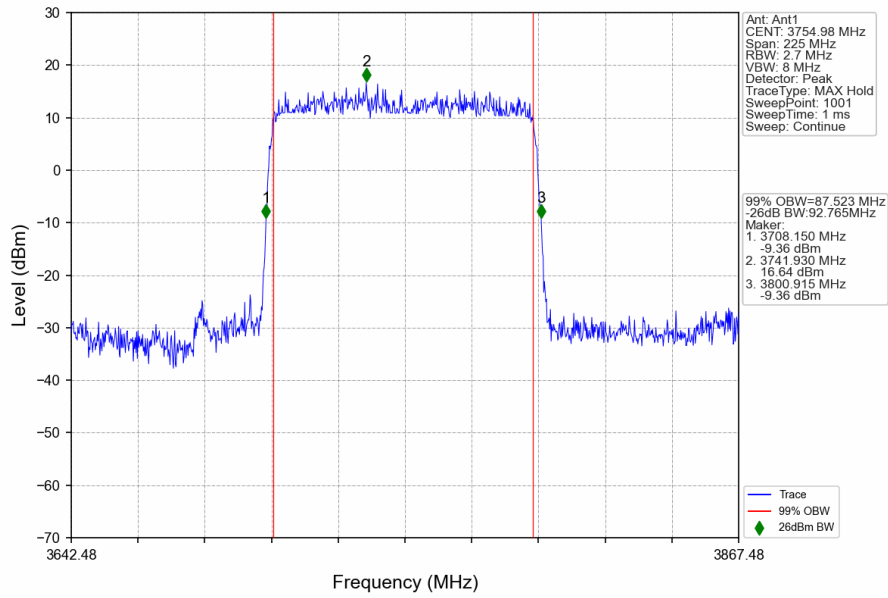
1.8.1 Test Result

5G NR n78a SCS=30kHz SISO 90MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM QPSK	3745.02	Outer_Full	86.94	92.93	/	Pass
	3750	Outer_Full	86.90	93.17	/	Pass
	3754.98	Outer_Full	87.52	92.77	/	Pass
DFT-s-OFDM 64 QAM	3745.02	Outer_Full	87.63	92.69	/	Pass
	3750	Outer_Full	87.59	93.01	/	Pass
	3754.98	Outer_Full	87.42	93.06	/	Pass
DFT-s-OFDM 256 QAM	3745.02	Outer_Full	87.45	92.86	/	Pass
	3750	Outer_Full	87.49	98.96	/	Pass
	3754.98	Outer_Full	87.39	93.13	/	Pass
CP-OFDM QPSK	3745.02	Outer_Full	87.65	93.57	/	Pass
	3750	Outer_Full	87.66	93.84	/	Pass
	3754.98	Outer_Full	87.73	93.47	/	Pass
CP-OFDM 64 QAM	3745.02	Outer_Full	87.91	93.55	/	Pass
	3750	Outer_Full	87.47	93.51	/	Pass
	3754.98	Outer_Full	87.96	93.48	/	Pass
CP-OFDM 256 QAM	3745.02	Outer_Full	87.69	93.43	/	Pass
	3750	Outer_Full	87.98	93.58	/	Pass
	3754.98	Outer_Full	87.87	93.76	/	Pass

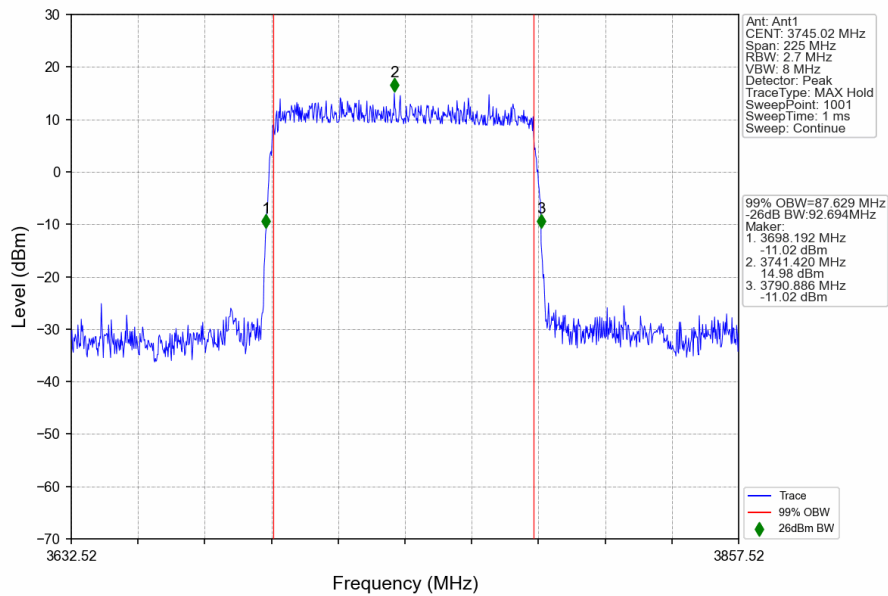
1.8.2 Test Graph



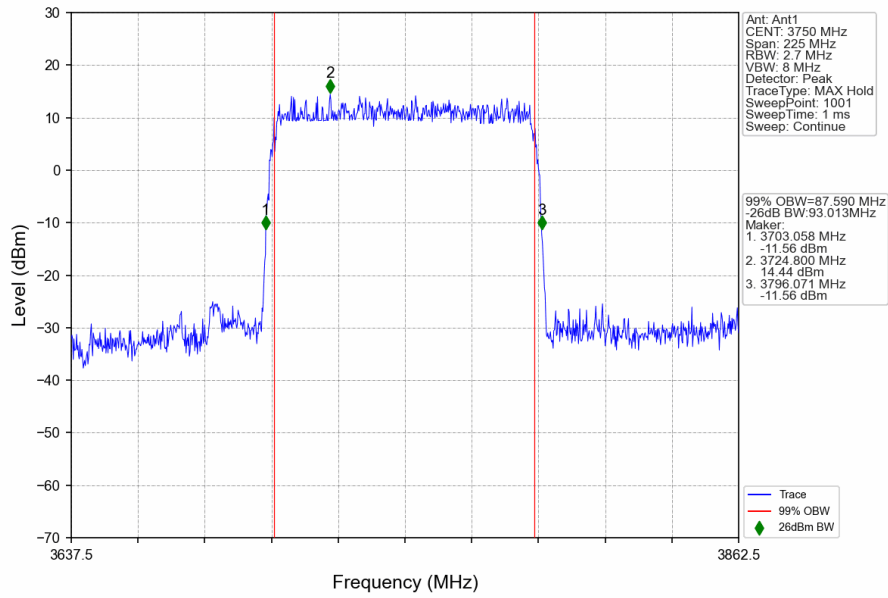
n78a_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM QPSK_3754.98MHz_Outer_Full



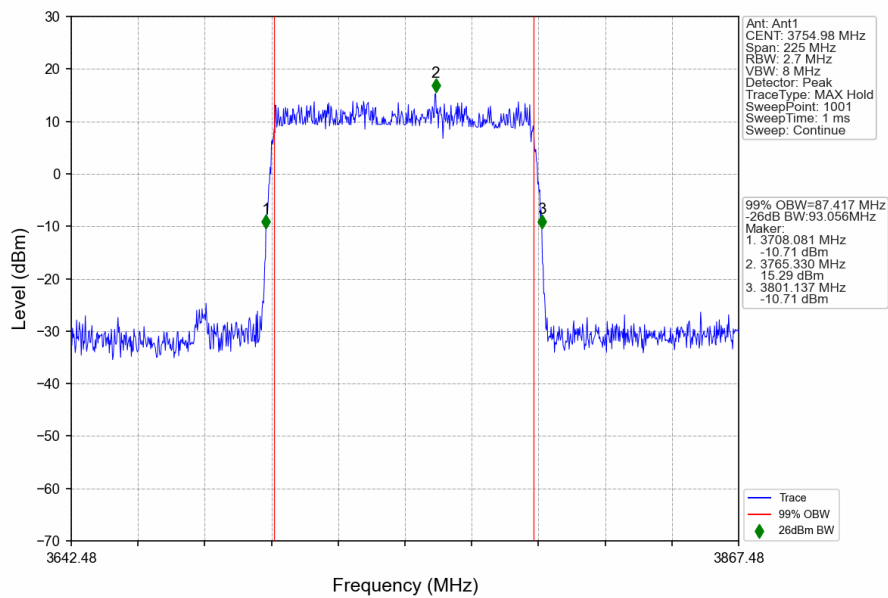
n78a_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM 64 QAM_3745.02MHz_Outer_Full



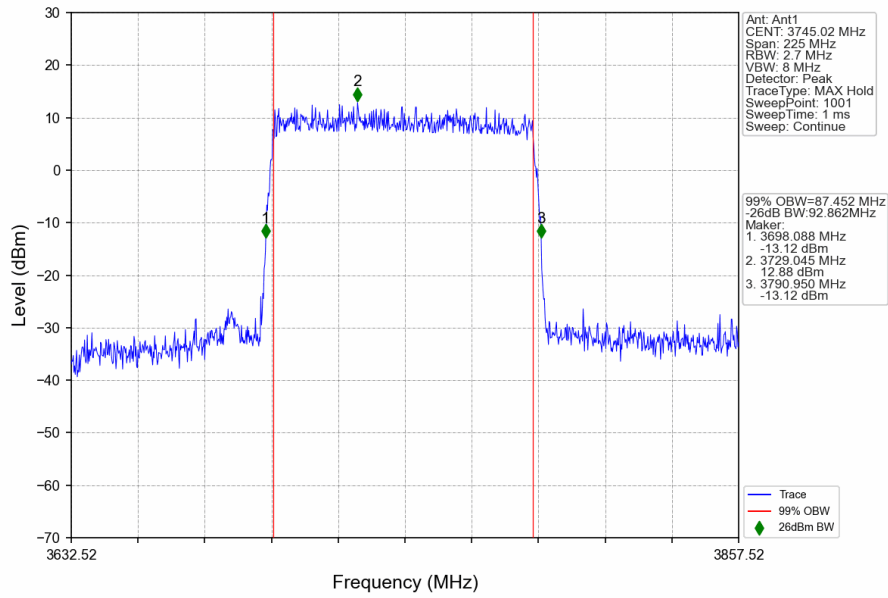
n78a_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM 64 QAM_3750MHz_Outer_Full



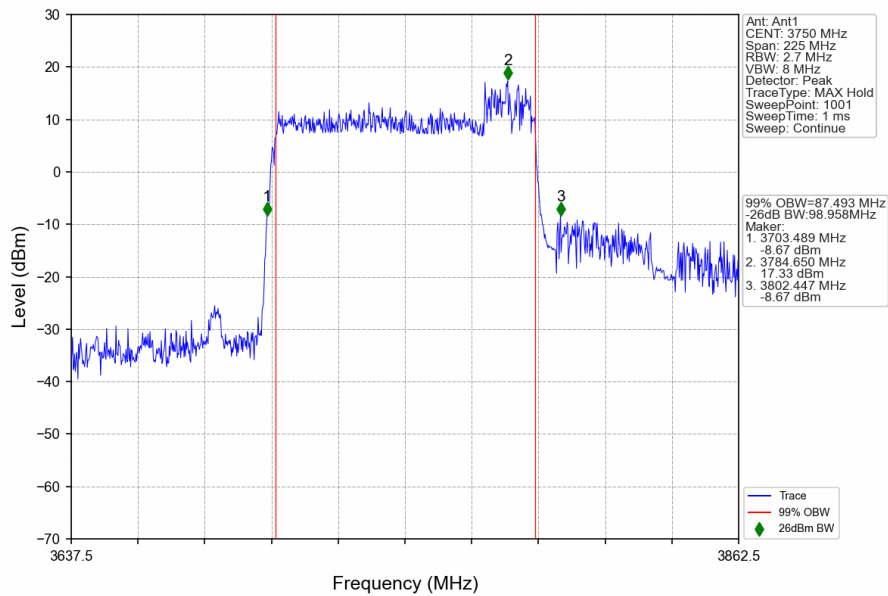
n78a_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM 64 QAM_3754.98MHz_Outer_Full



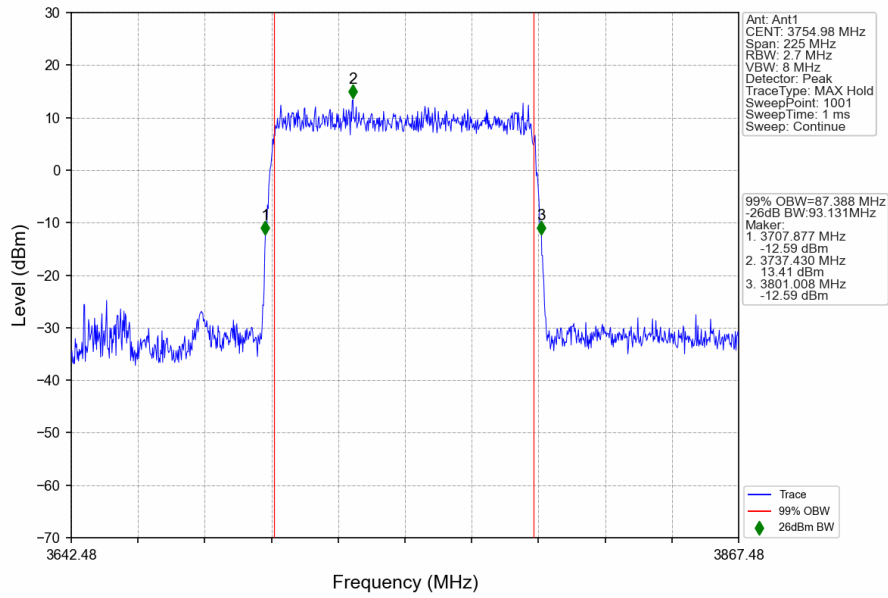
n78a_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_256_QAM_3745.02MHz_Outer_Full



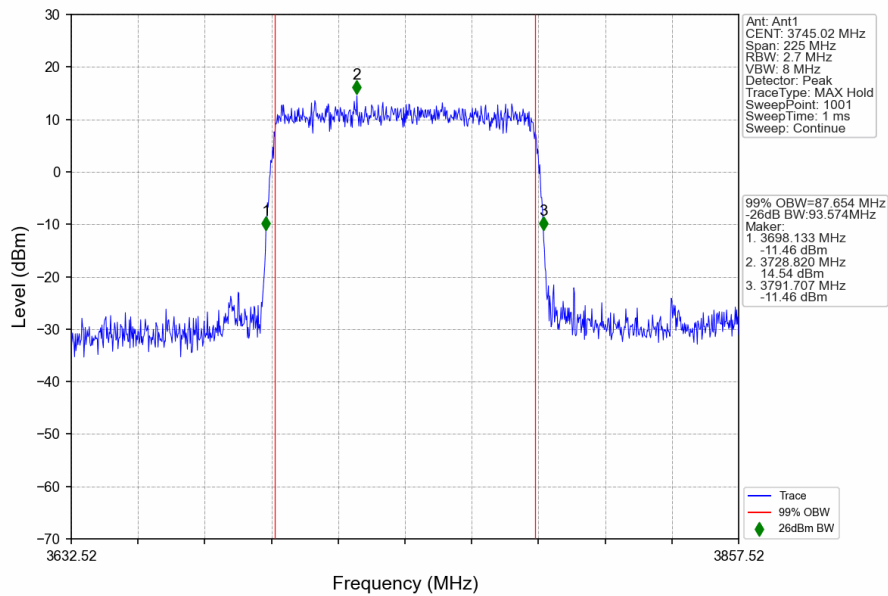
n78a_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_256_QAM_3750MHz_Outer_Full



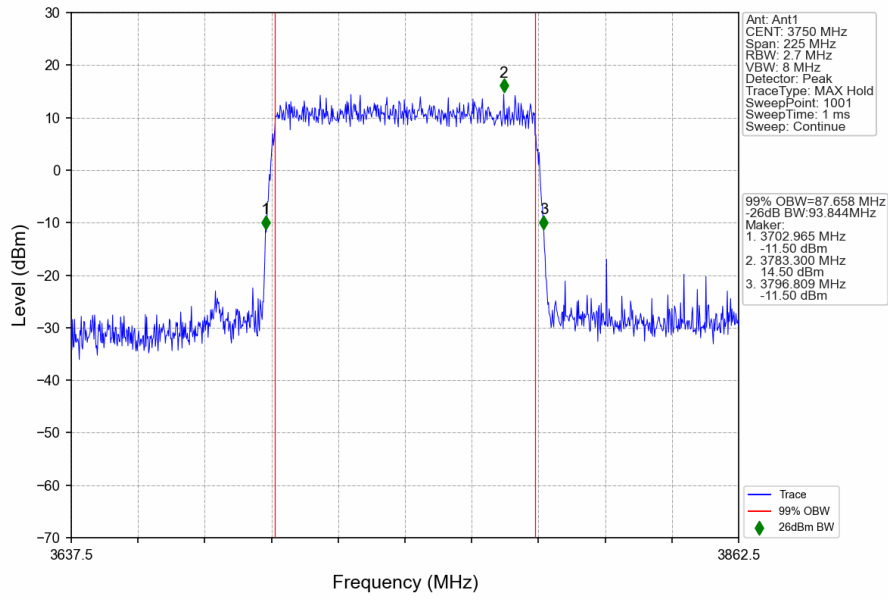
n78a_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM 256 QAM_3754.98MHz_Outer_Full



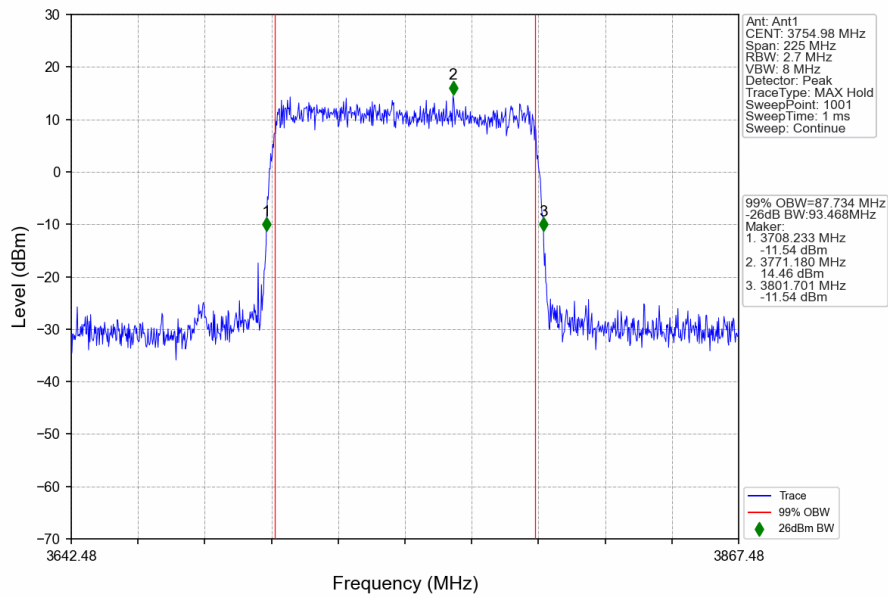
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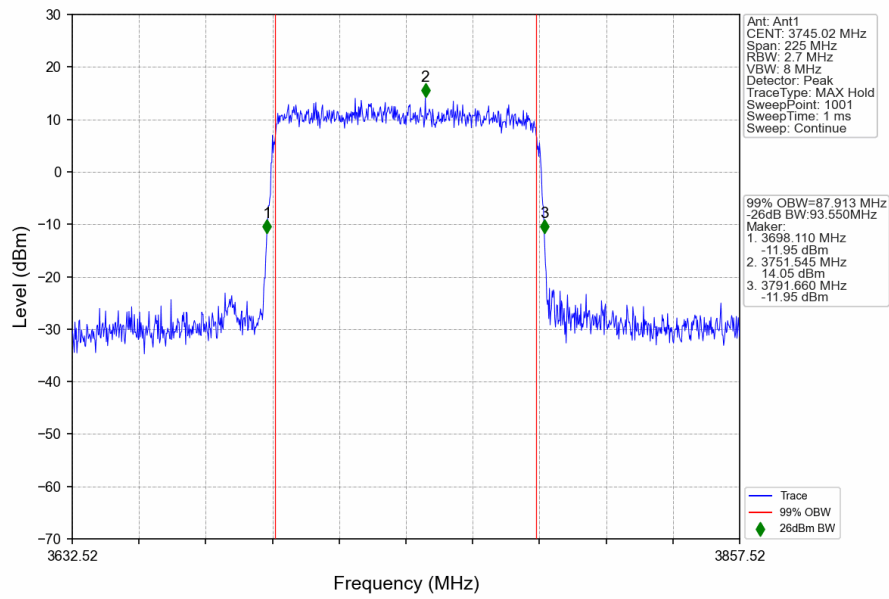
n78a_30kHz_SISO_NTNV_90MHz_CP-OFDM QPSK_3750MHz_Outer_Full



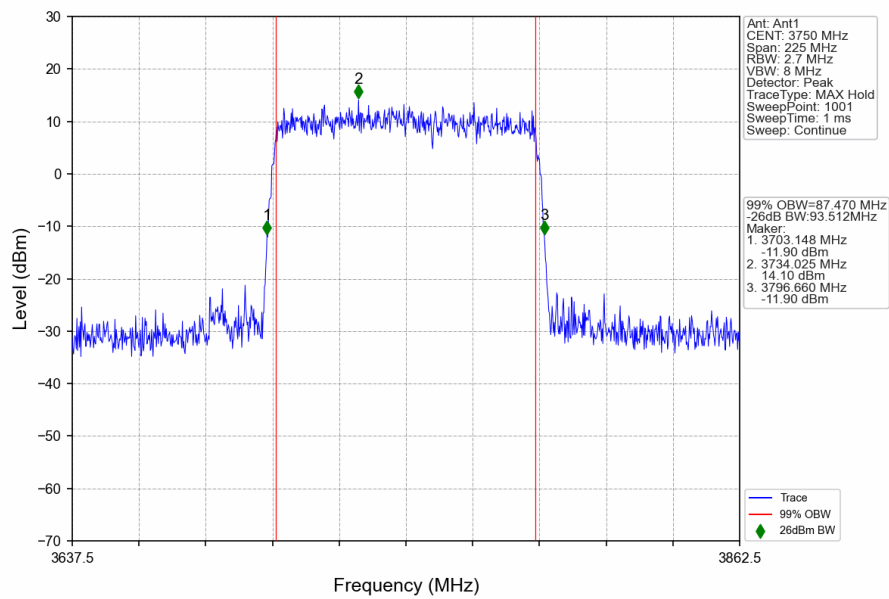
n78a_30kHz_SISO_NTNV_90MHz_CP-OFDM QPSK_3754.98MHz_Outer_Full



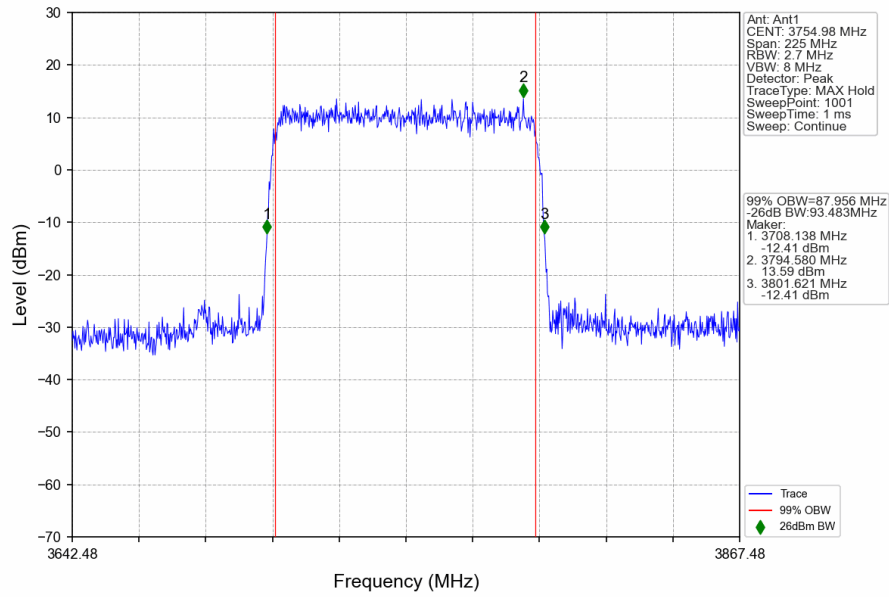
n78a_30kHz_SISO_NTNV_90MHz_CP-OFDM 64 QAM_3745.02MHz_Outer_Full



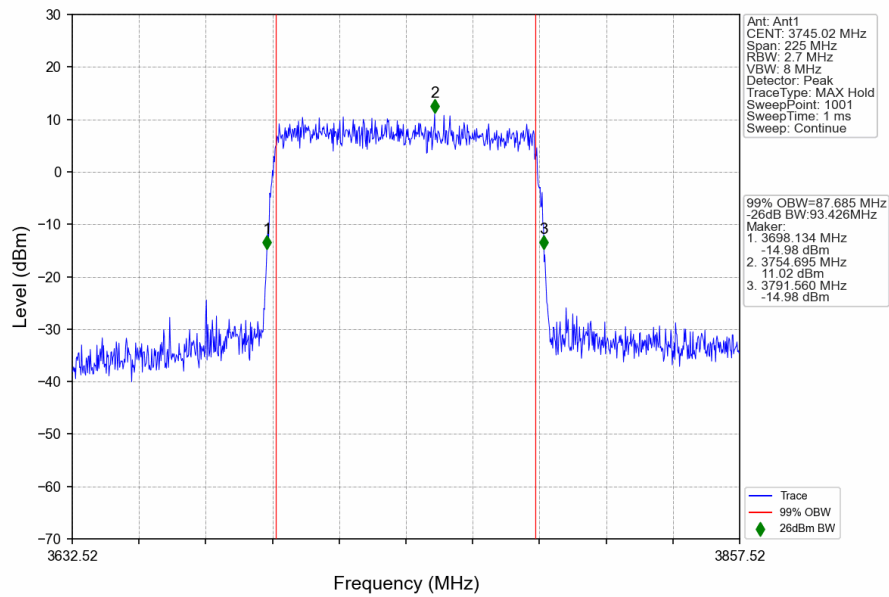
n78a_30kHz_SISO_NTNV_90MHz_CP-OFDM 64 QAM_3750MHz_Outer_Full



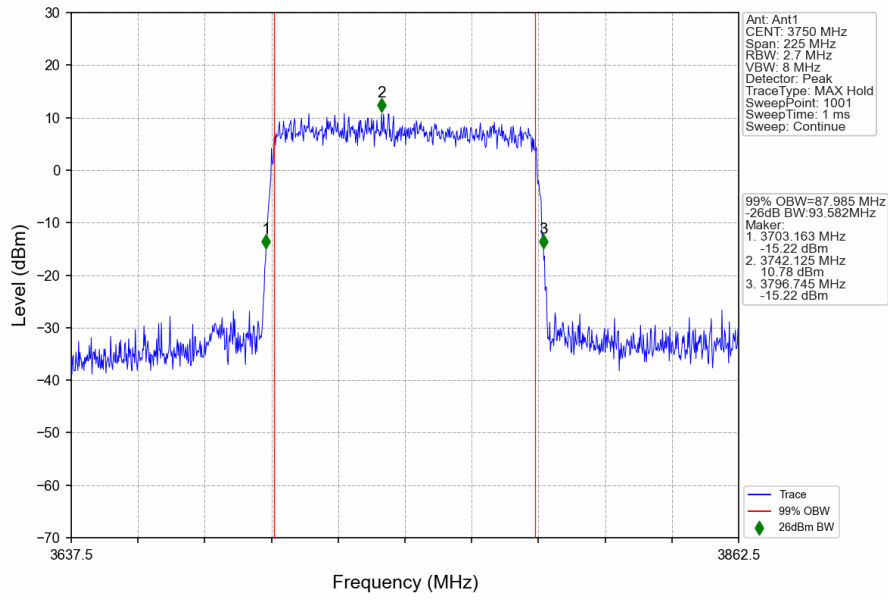
n78a_30kHz_SISO_NTNV_90MHz_CP-OFDM 64 QAM_3754.98MHz_Outer_Full



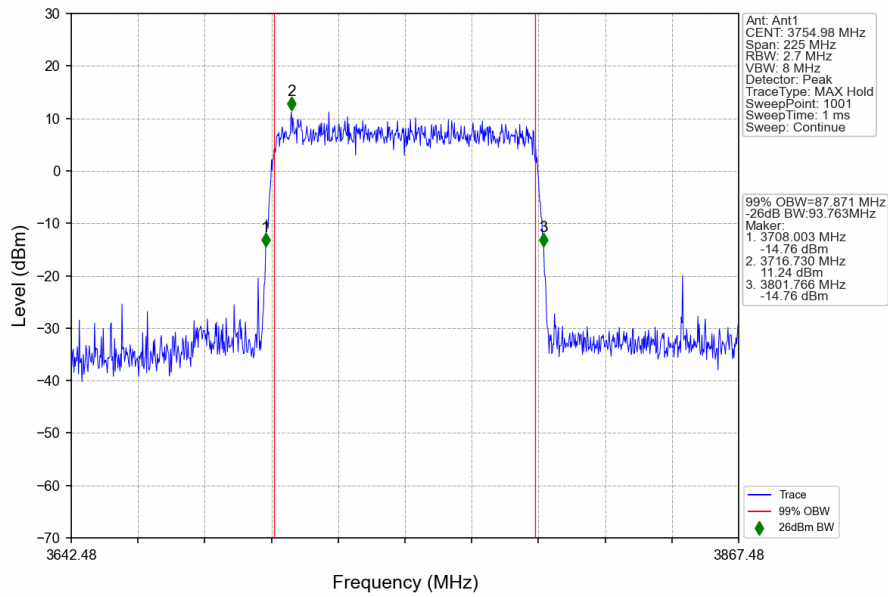
n78a_30kHz_SISO_NTNV_90MHz_CP-OFDM 256 QAM_3745.02MHz_Outer_Full



n78a_30kHz_SISO_NTNV_90MHz_CP-OFDM 256 QAM_3750MHz_Outer_Full



n78a_30kHz_SISO_NTNV_90MHz_CP-OFDM 256 QAM_3754.98MHz_Outer_Full

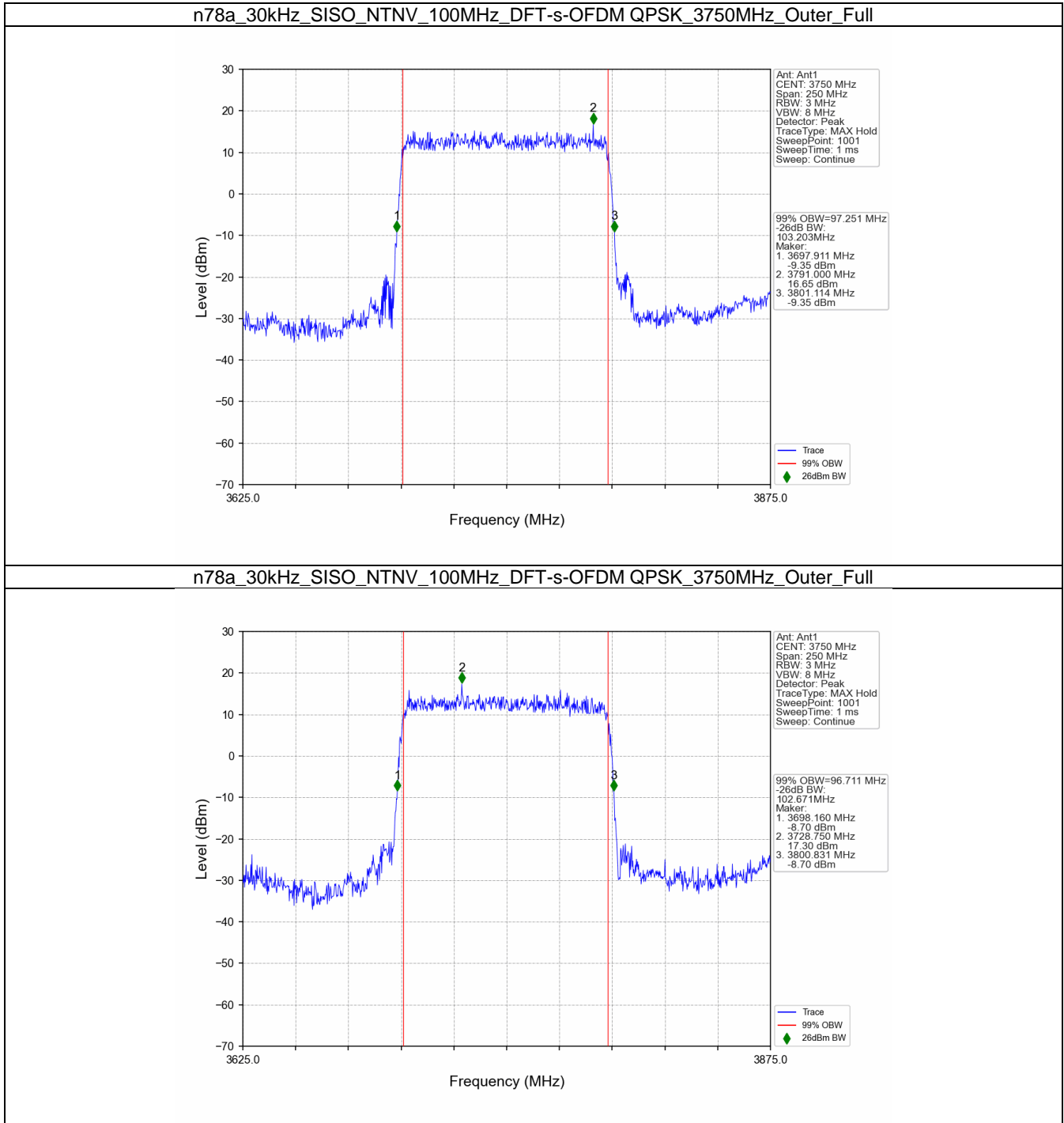


1.9 30k_SISO_100MHz_NTNV

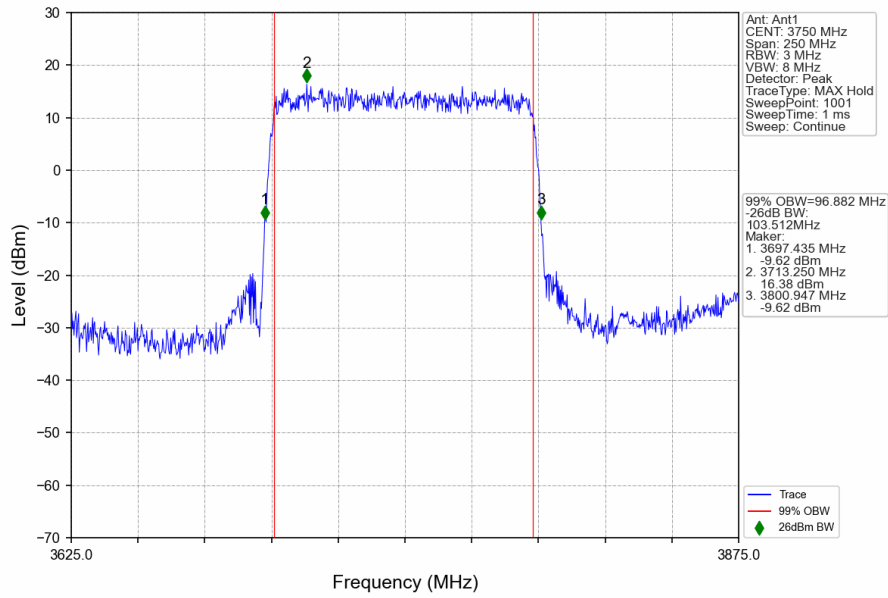
1.9.1 Test Result

5G NR n78a SCS=30kHz SISO 100MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM QPSK	3750	Outer_Full	97.25	103.20	/	Pass
	3750	Outer_Full	96.71	102.67	/	Pass
	3750	Outer_Full	96.88	103.51	/	Pass
DFT-s-OFDM 64 QAM	3750	Outer_Full	96.78	103.42	/	Pass
	3750	Outer_Full	96.69	103.02	/	Pass
	3750	Outer_Full	96.66	102.67	/	Pass
DFT-s-OFDM 256 QAM	3750	Outer_Full	75.11	78.74	/	Pass
	3750	Outer_Full	39.43	42.01	/	Pass
	3750	Outer_Full	97.00	103.19	/	Pass
CP-OFDM QPSK	3750	Outer_Full	67.91	71.52	/	Pass
	3750	Outer_Full	97.94	104.81	/	Pass
	3750	Outer_Full	97.66	104.25	/	Pass
CP-OFDM 64 QAM	3750	Outer_Full	98.48	104.38	/	Pass
	3750	Outer_Full	97.67	104.61	/	Pass
	3750	Outer_Full	97.78	104.18	/	Pass
CP-OFDM 256 QAM	3750	Outer_Full	97.70	104.35	/	Pass
	3750	Outer_Full	98.00	104.34	/	Pass
	3750	Outer_Full	98.11	104.09	/	Pass

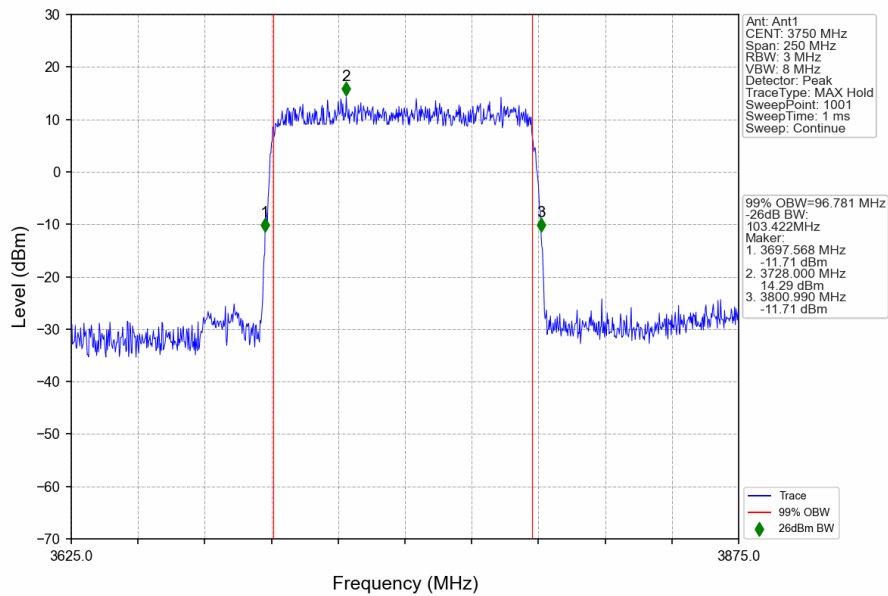
1.9.2 Test Graph



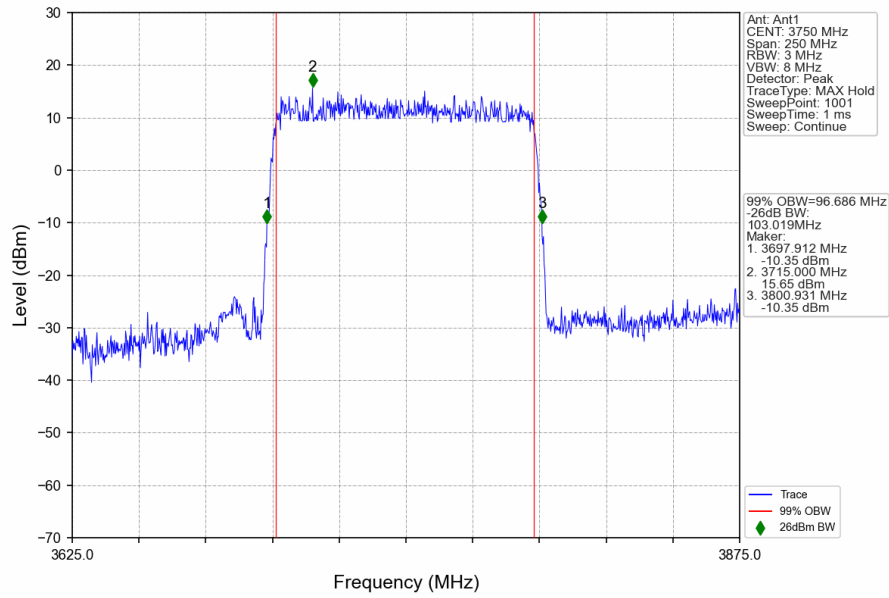
n78a_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM QPSK_3750MHz_Outer_Full



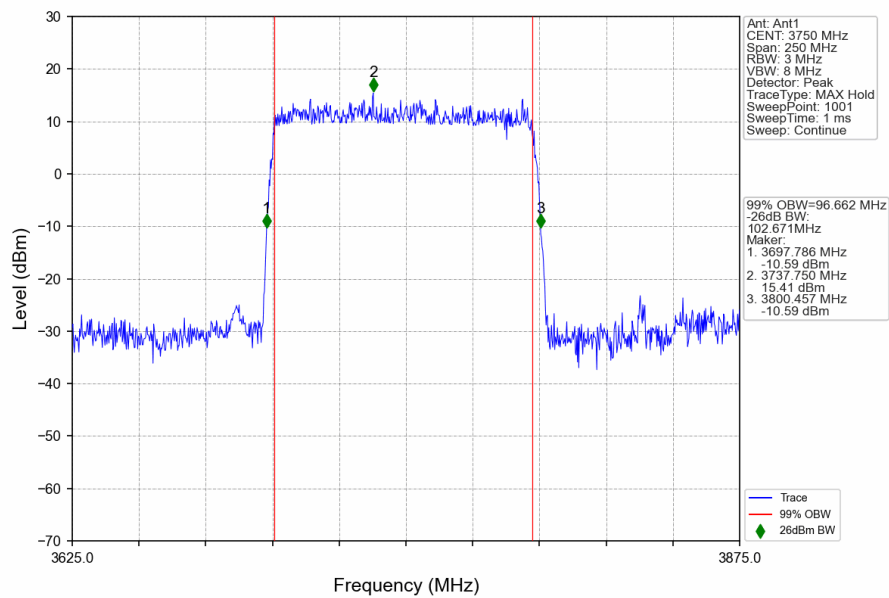
n78a_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 64 QAM_3750MHz_Outer_Full



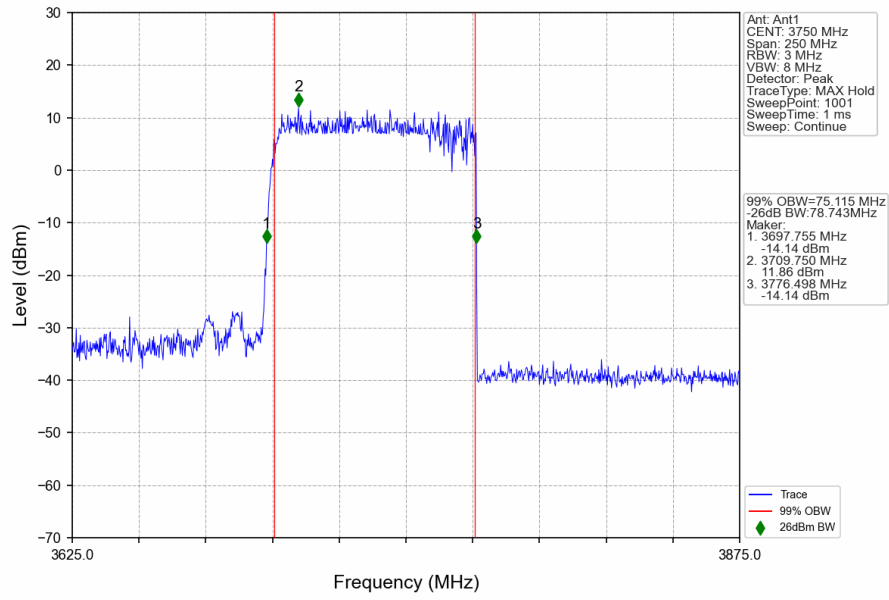
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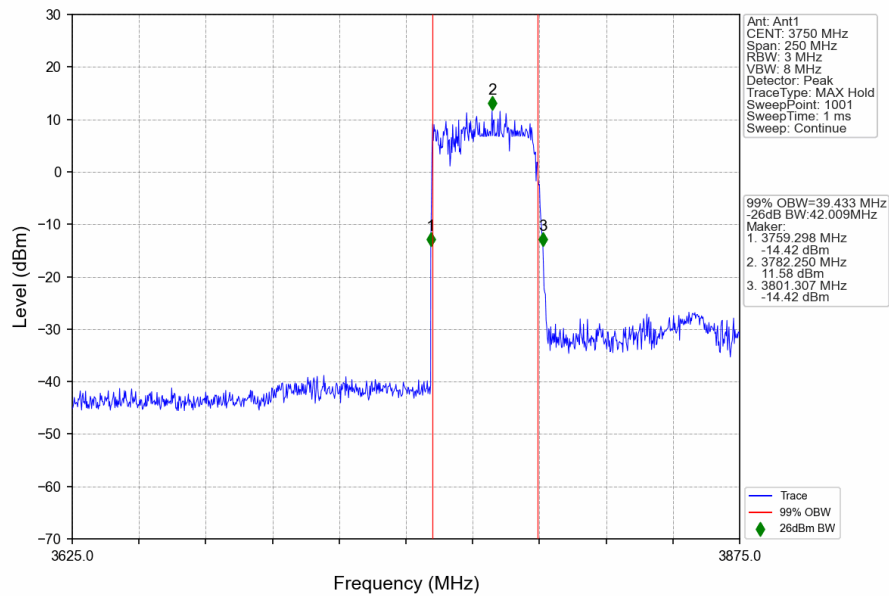
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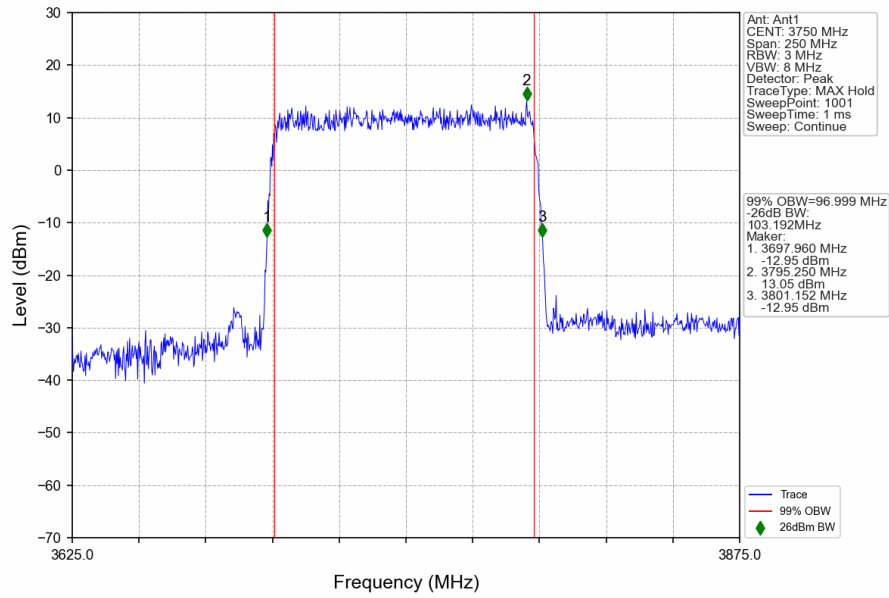
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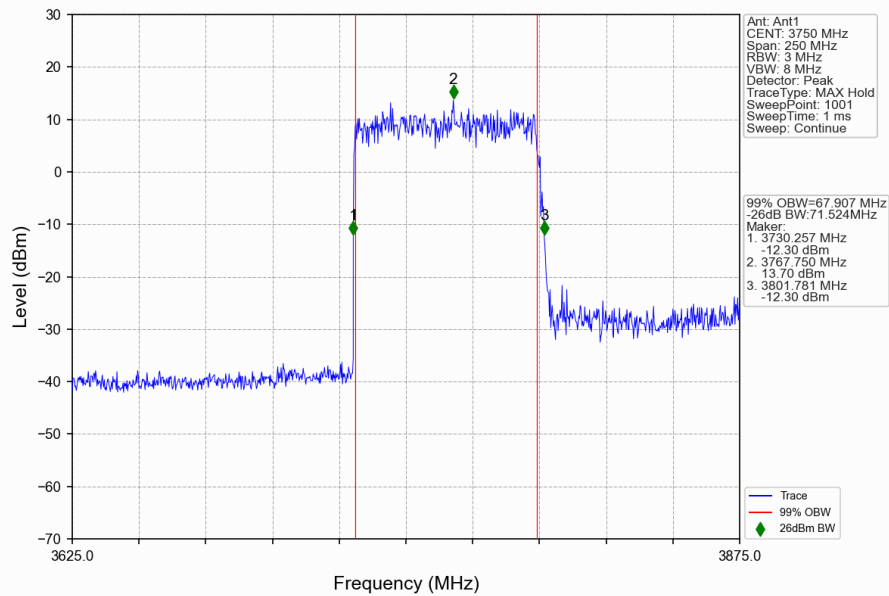
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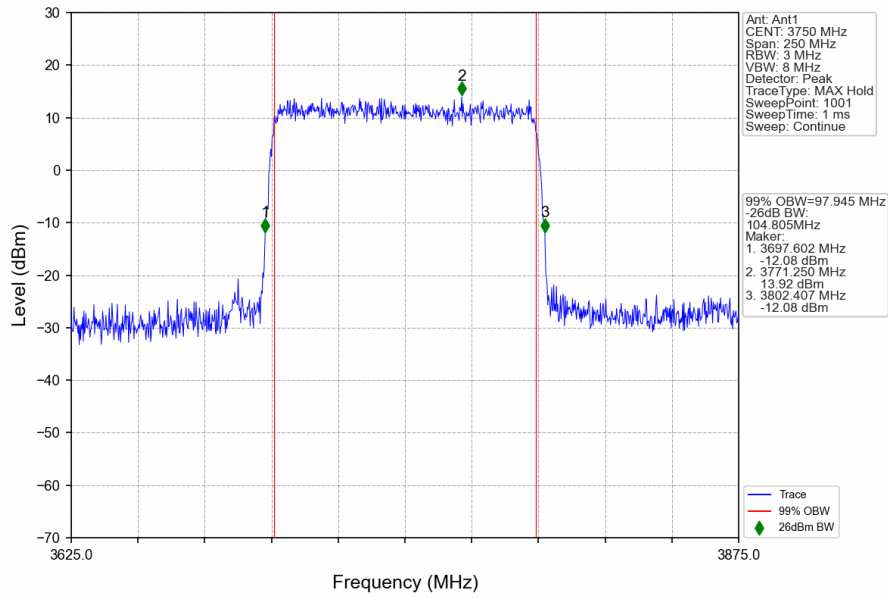
n78a_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 256 QAM_3750MHz_Outer_Full



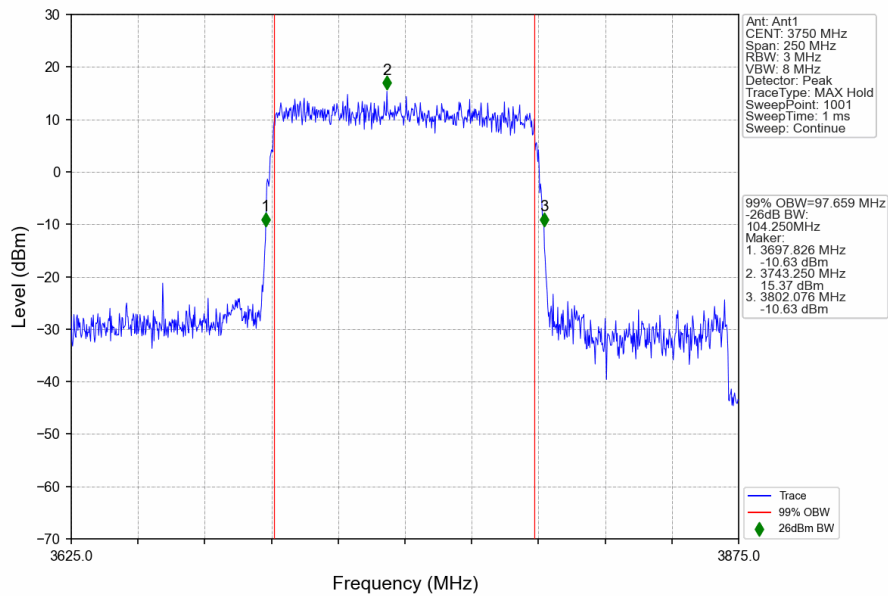
n78a_30kHz_SISO_NTNV_100MHz_CP-OFDM QPSK_3750MHz_Outer_Full



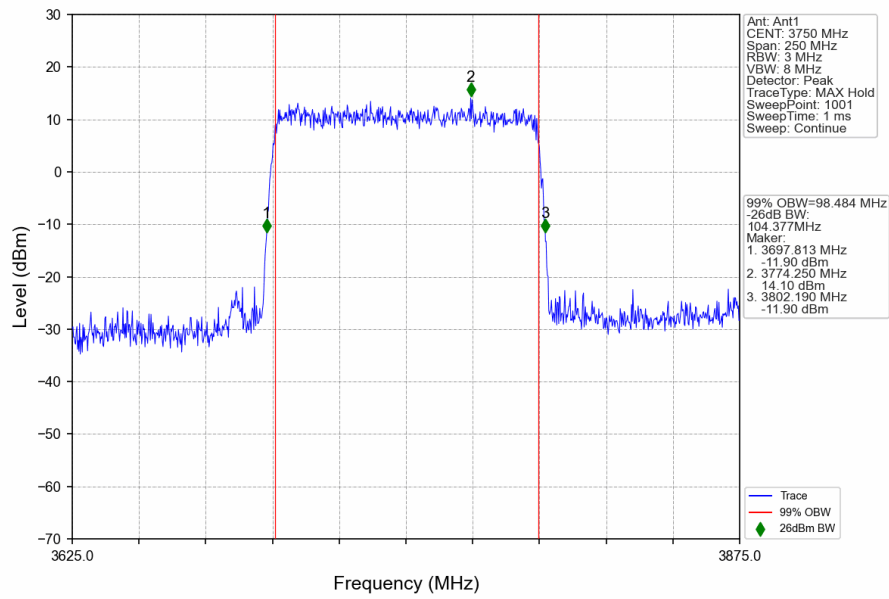
n78a_30kHz_SISO_NTNV_100MHz_CP-OFDM QPSK_3750MHz_Outer_Full



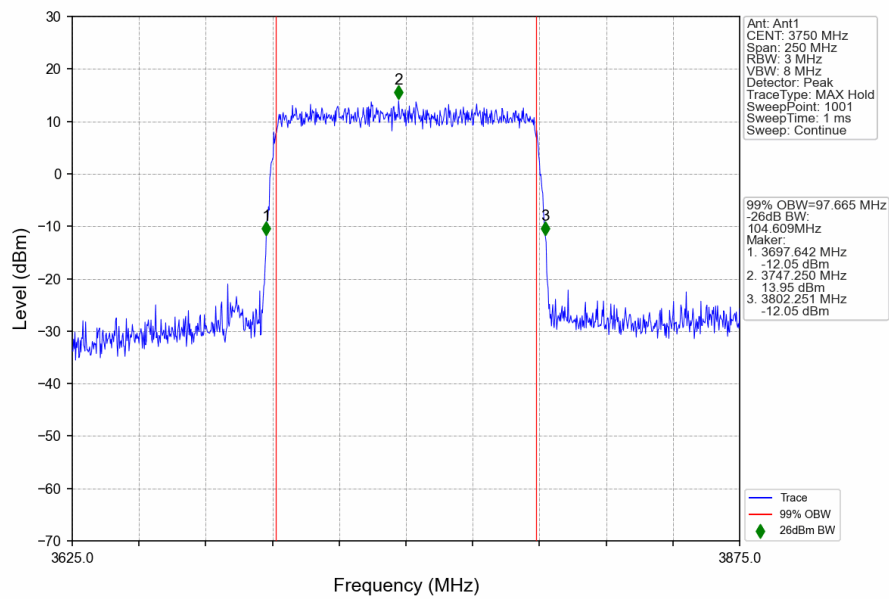
n78a_30kHz_SISO_NTNV_100MHz_CP-OFDM QPSK_3750MHz_Outer_Full



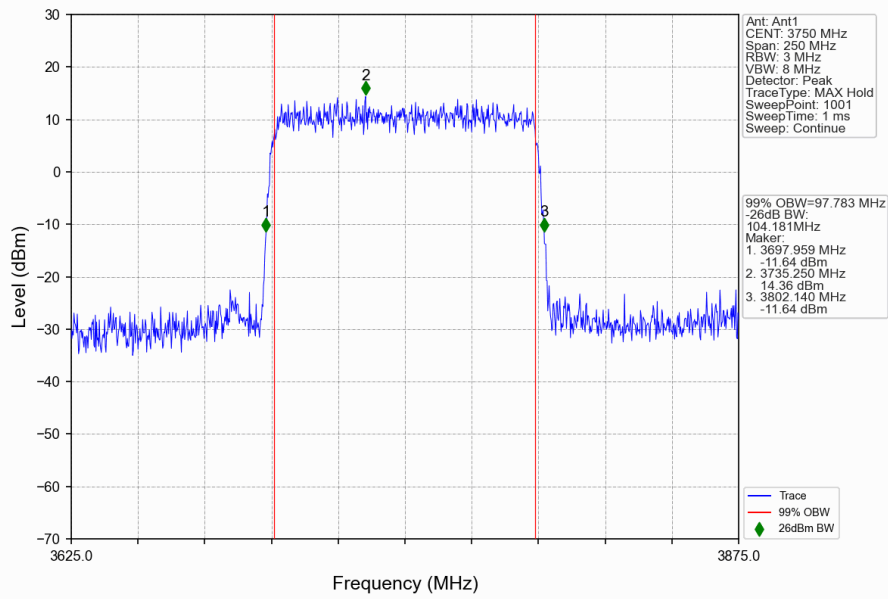
n78a_30kHz_SISO_NTNV_100MHz_CP-OFDM 64 QAM_3750MHz_Outer_Full



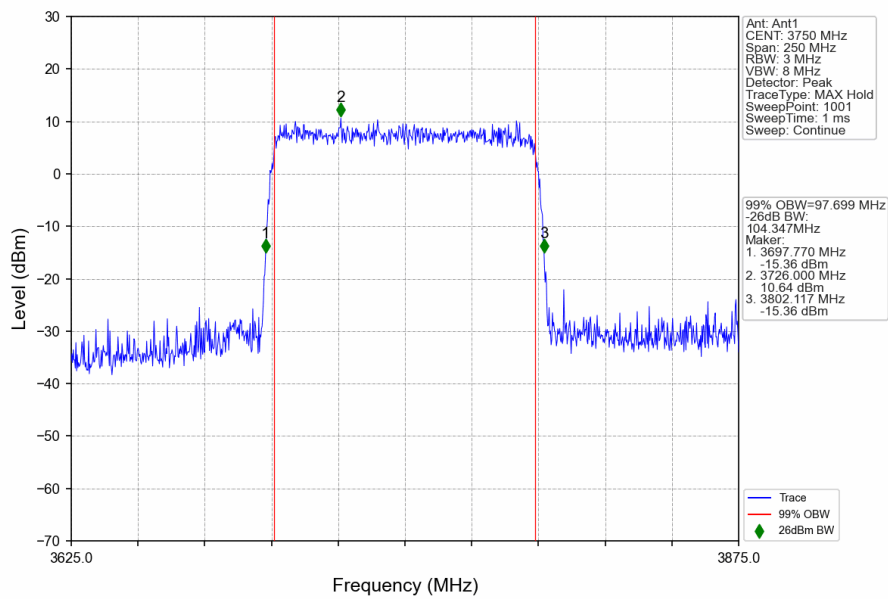
n78a_30kHz_SISO_NTNV_100MHz_CP-OFDM 64 QAM_3750MHz_Outer_Full



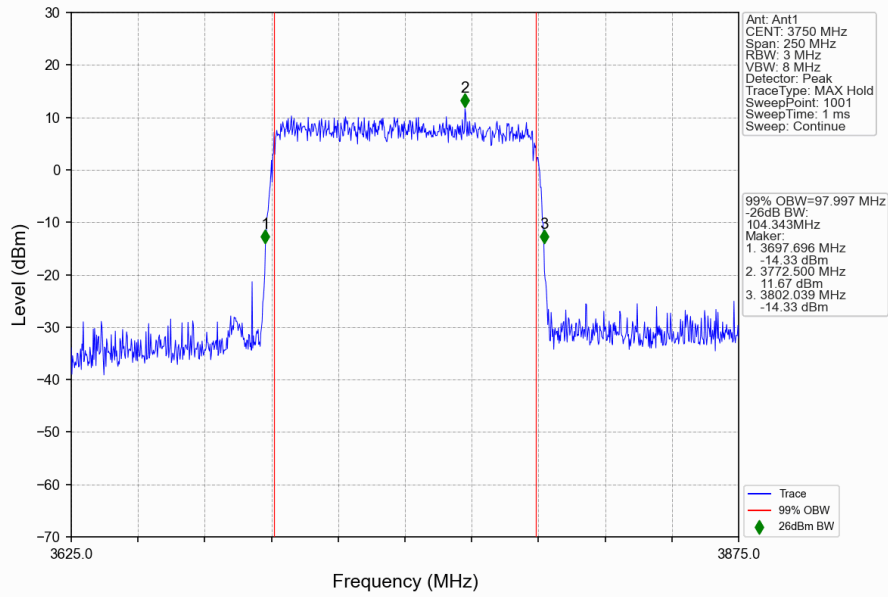
n78a_30kHz_SISO_NTNV_100MHz_CP-OFDM 64 QAM_3750MHz_Outer_Full



n78a_30kHz_SISO_NTNV_100MHz_CP-OFDM 256 QAM_3750MHz_Outer_Full



n78a_30kHz_SISO_NTNV_100MHz_CP-OFDM 256 QAM_3750MHz_Outer_Full



n78a_30kHz_SISO_NTNV_100MHz_CP-OFDM 256 QAM_3750MHz_Outer_Full

