

5G NR N48

1. 99% & 26dB Bandwidth

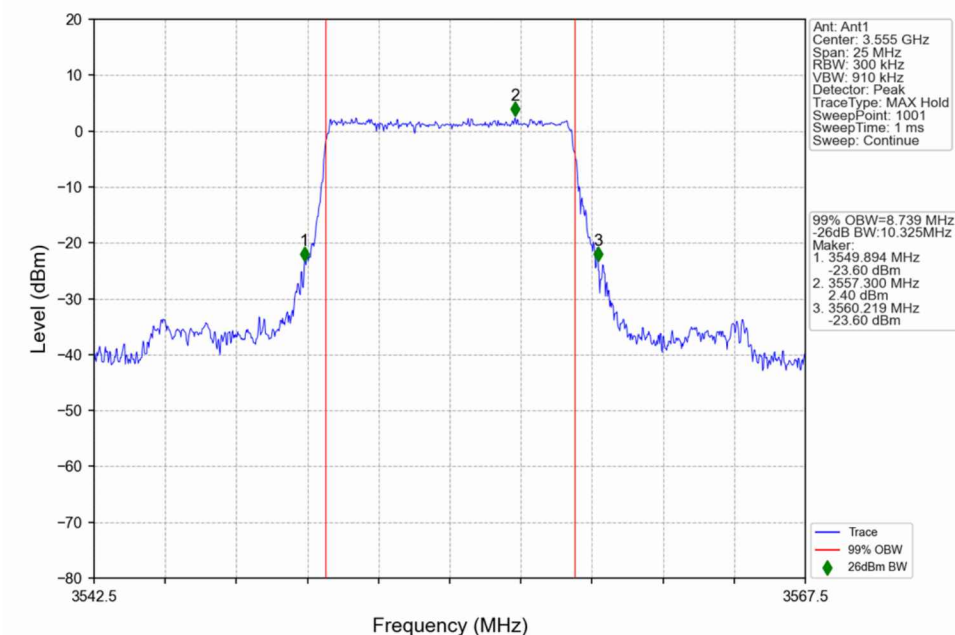
1.1 30k_SISO_10MHz_NTNV

1.1.1 Test Result

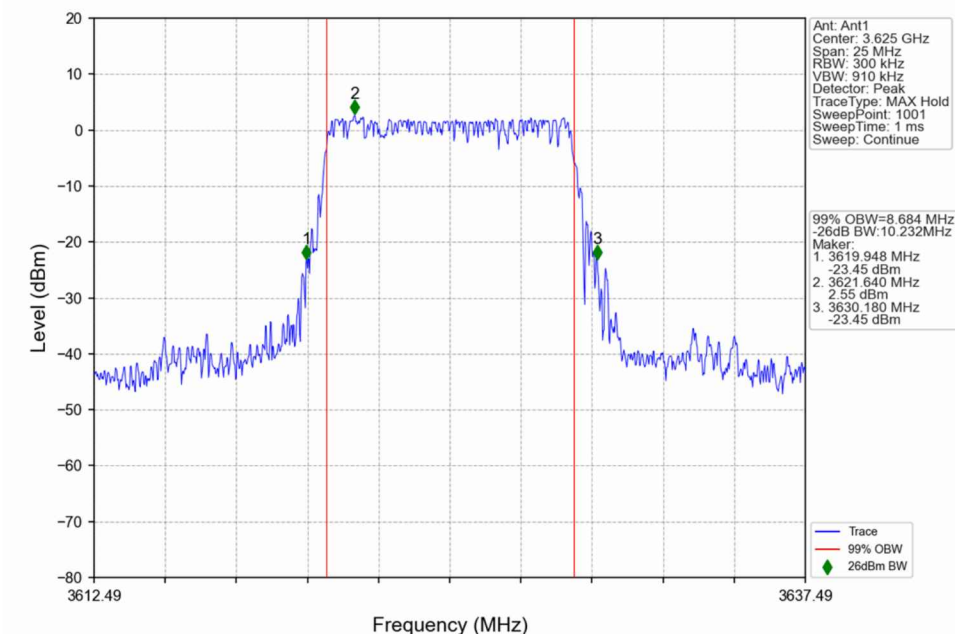
5G NR n48 SCS=30kHz SISO 10MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM QPSK	3555	Outer_Full	8.74	10.32	/	Pass
	3624.99	Outer_Full	8.68	10.23	/	Pass
	3694.98	Outer_Full	8.68	10.09	/	Pass
DFT-s-OFDM 16 QAM	3555	Outer_Full	8.80	10.09	/	Pass
	3624.99	Outer_Full	8.71	10.05	/	Pass
	3694.98	Outer_Full	8.68	10.04	/	Pass
DFT-s-OFDM 64 QAM	3555	Outer_Full	8.71	10.19	/	Pass
	3624.99	Outer_Full	8.68	10.20	/	Pass
	3694.98	Outer_Full	8.69	10.17	/	Pass
DFT-s-OFDM 256 QAM	3555	Outer_Full	8.70	10.11	/	Pass
	3624.99	Outer_Full	8.62	10.05	/	Pass
	3694.98	Outer_Full	8.67	10.08	/	Pass
CP-OFDM QPSK	3555	Outer_Full	8.75	10.47	/	Pass
	3624.99	Outer_Full	8.71	9.94	/	Pass
	3694.98	Outer_Full	8.72	10.13	/	Pass
CP-OFDM 16 QAM	3555	Outer_Full	8.73	10.05	/	Pass
	3624.99	Outer_Full	8.72	9.96	/	Pass
	3694.98	Outer_Full	8.66	10.05	/	Pass
CP-OFDM 64 QAM	3555	Outer_Full	8.71	10.11	/	Pass
	3624.99	Outer_Full	8.65	10.08	/	Pass
	3694.98	Outer_Full	8.71	9.81	/	Pass
CP-OFDM 256 QAM	3555	Outer_Full	8.71	10.02	/	Pass
	3624.99	Outer_Full	8.64	9.77	/	Pass
	3694.98	Outer_Full	8.68	10.01	/	Pass

1.1.2 Test Graph

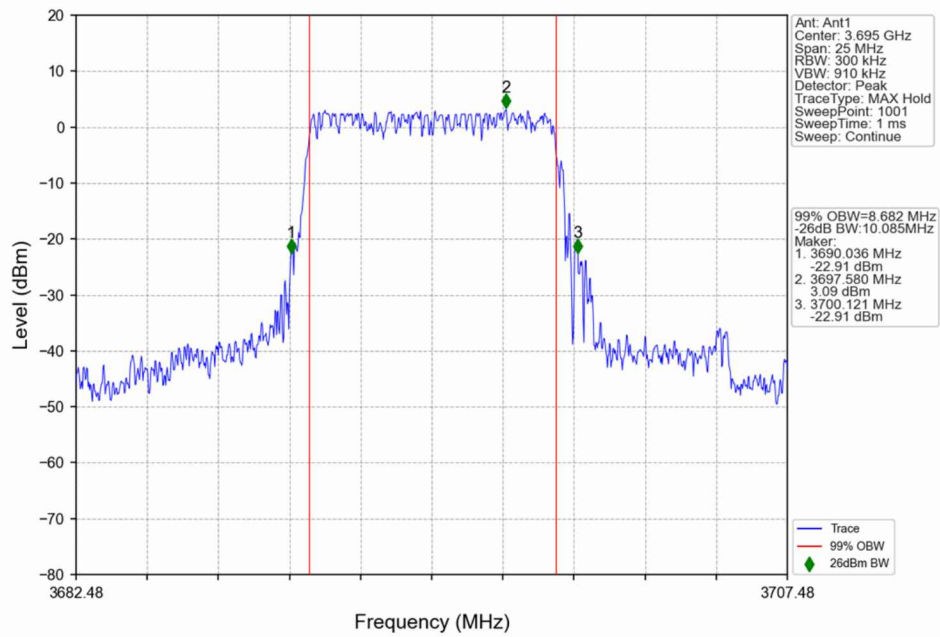
n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3555MHz_Outer_Full



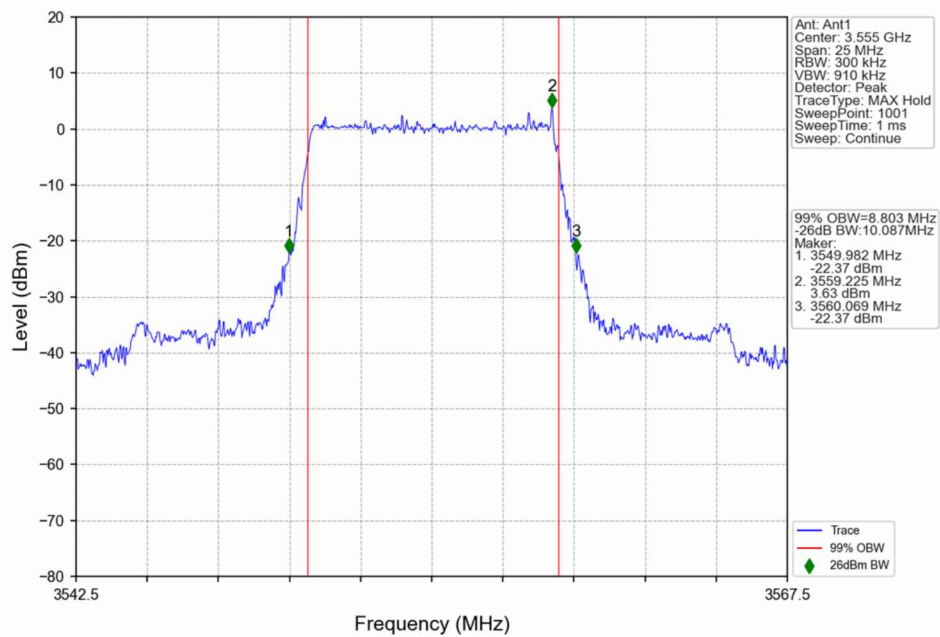
n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3624.99MHz_Outer_Full



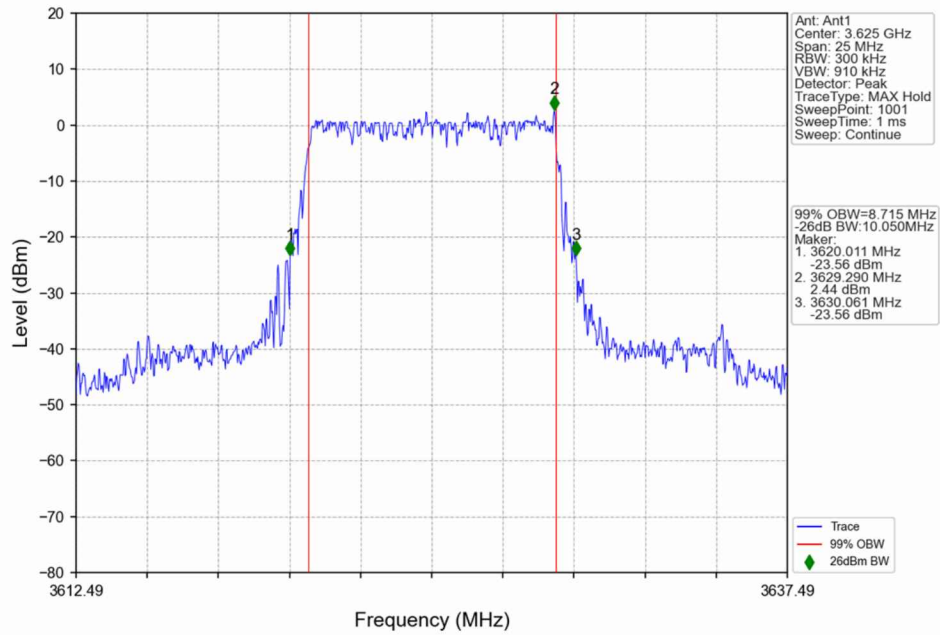
n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3694.98MHz_Outer_Full



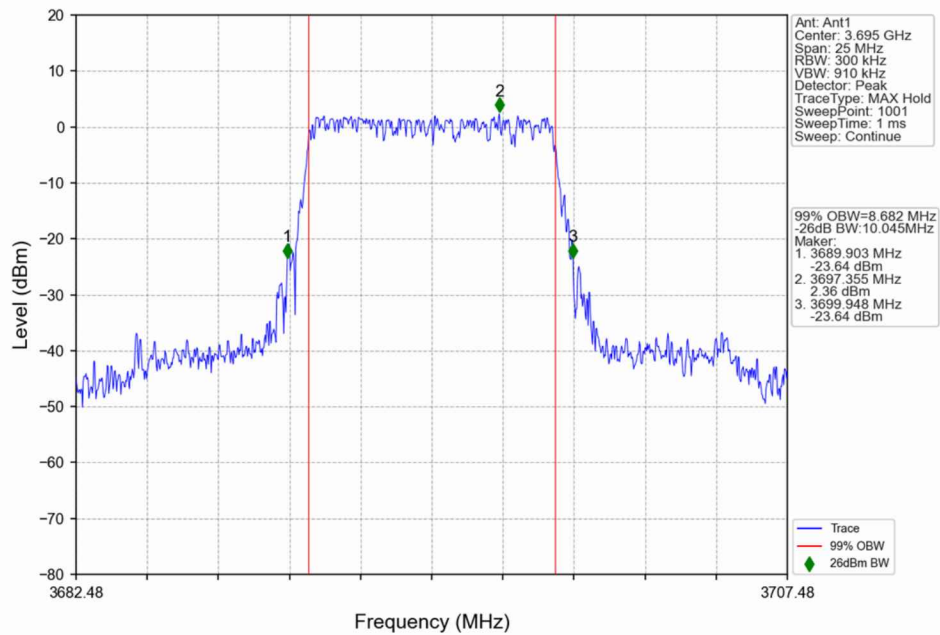
n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_3555MHz_Outer_Full



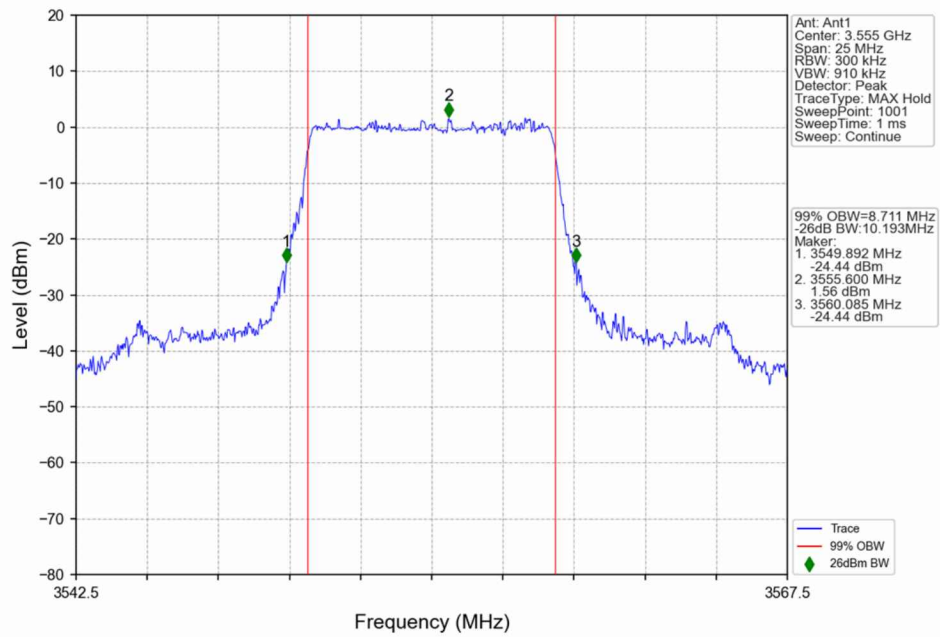
n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_3624.99MHz_Outer_Full



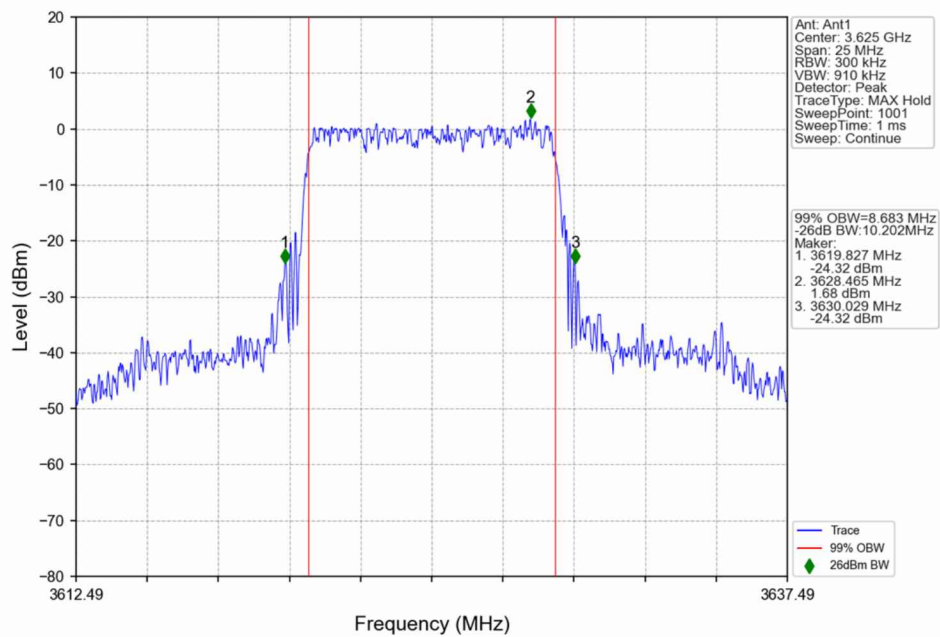
n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_3694.98MHz_Outer_Full



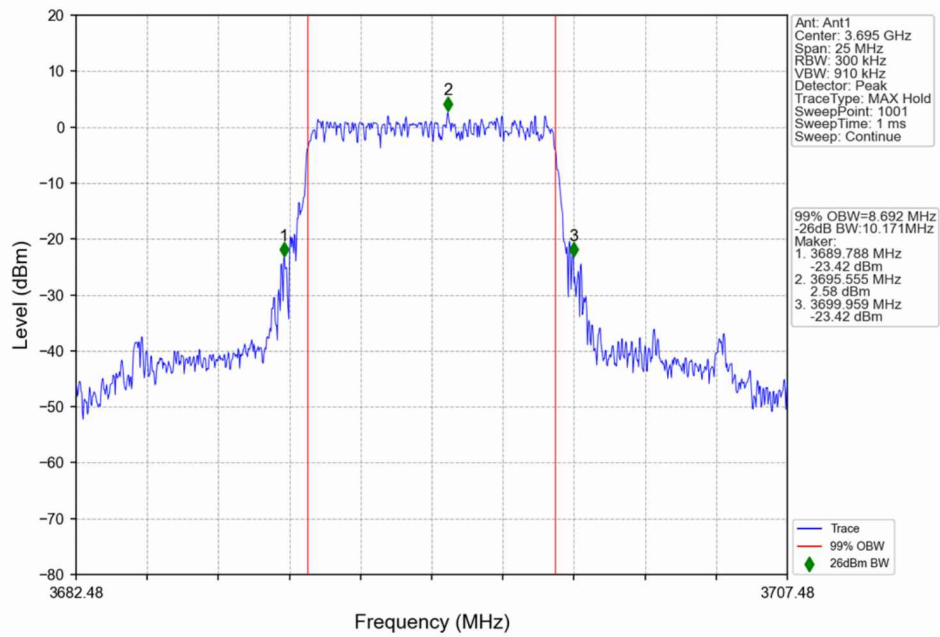
n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_3555MHz_Outer_Full



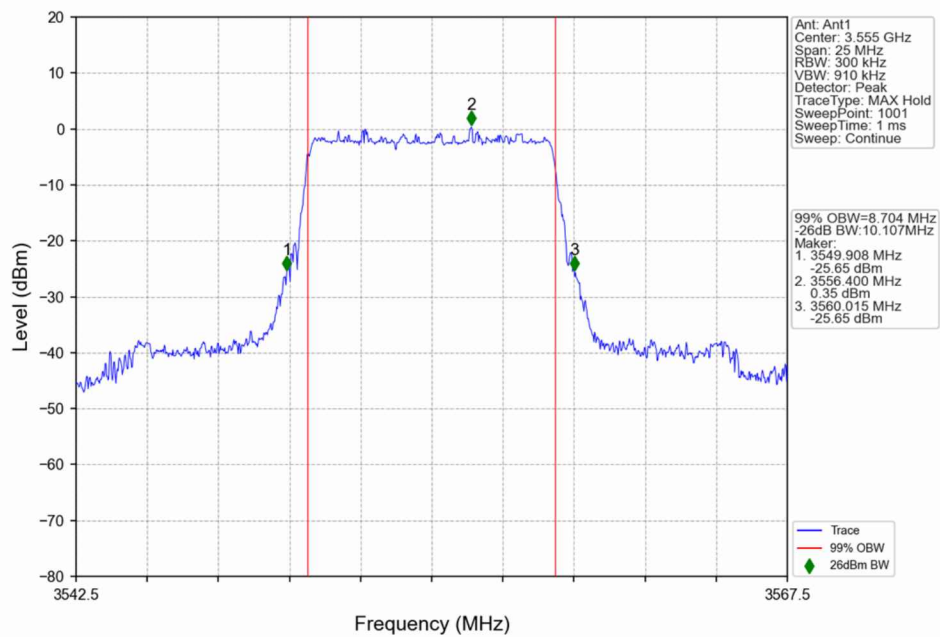
n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_3624.99MHz_Outer_Full



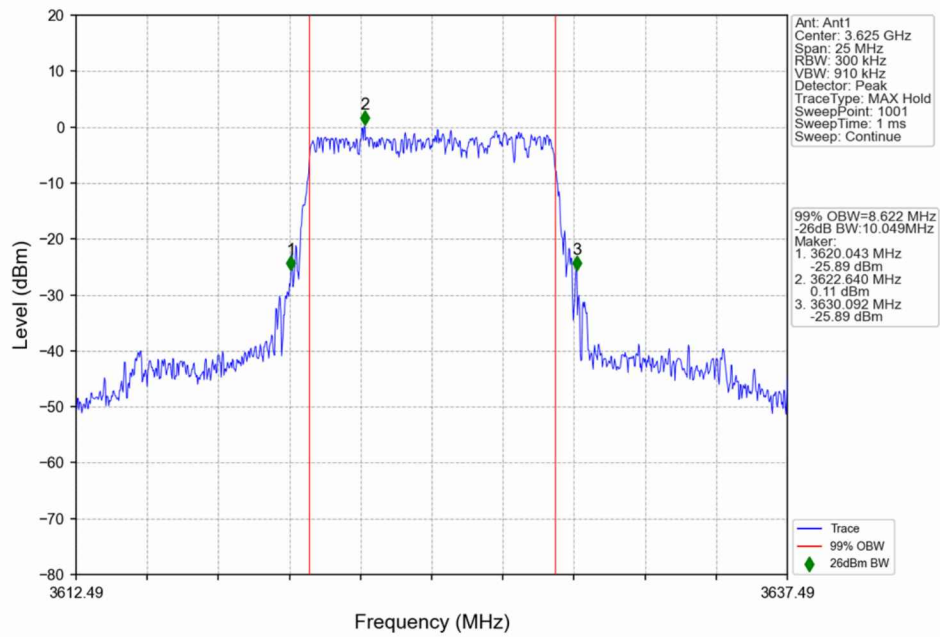
n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_3694.98MHz_Outer_Full



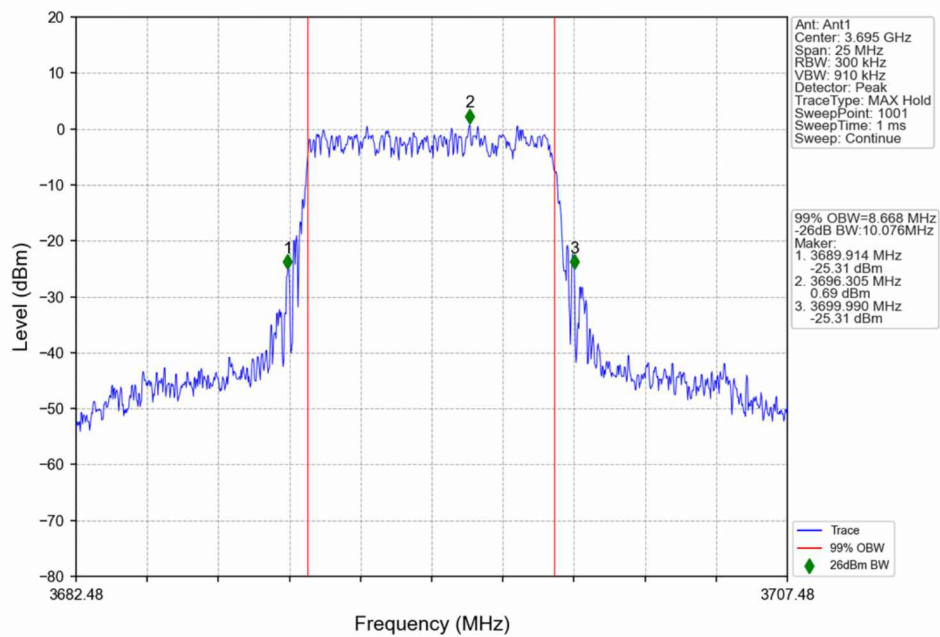
n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_3555MHz_Outer_Full



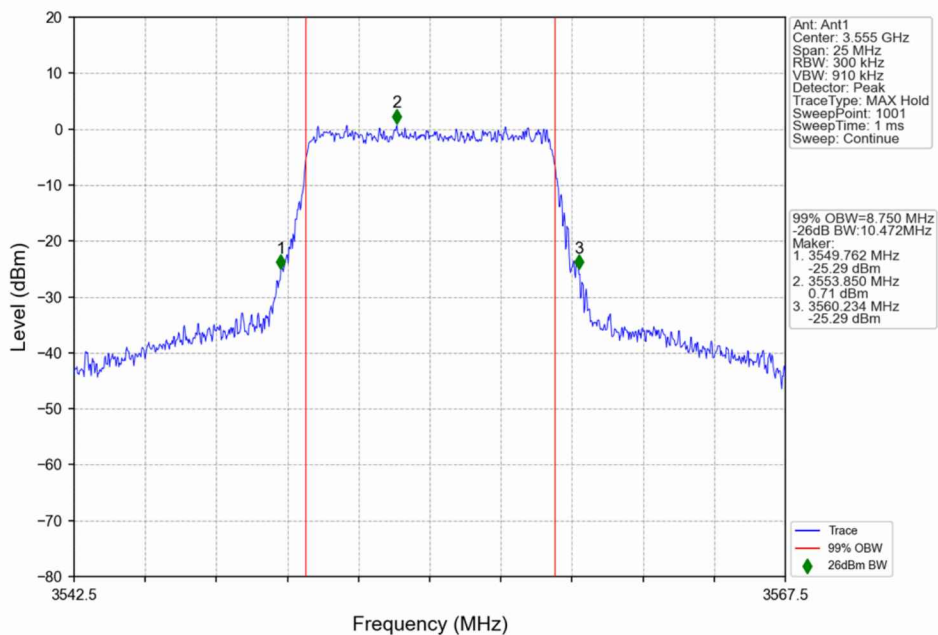
n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_3624.99MHz_Outer_Full



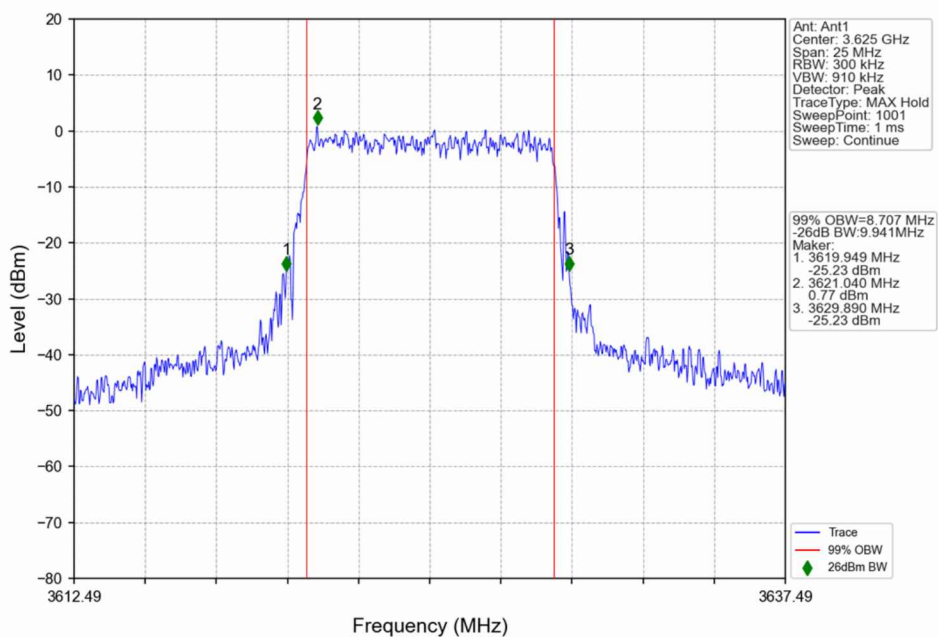
n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_3694.98MHz_Outer_Full



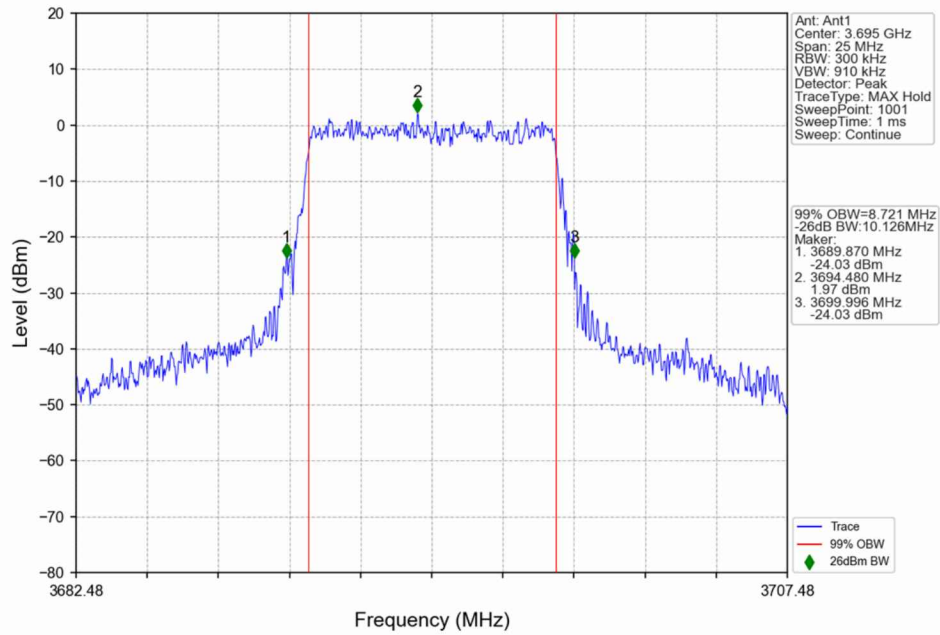
n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Outer_Full



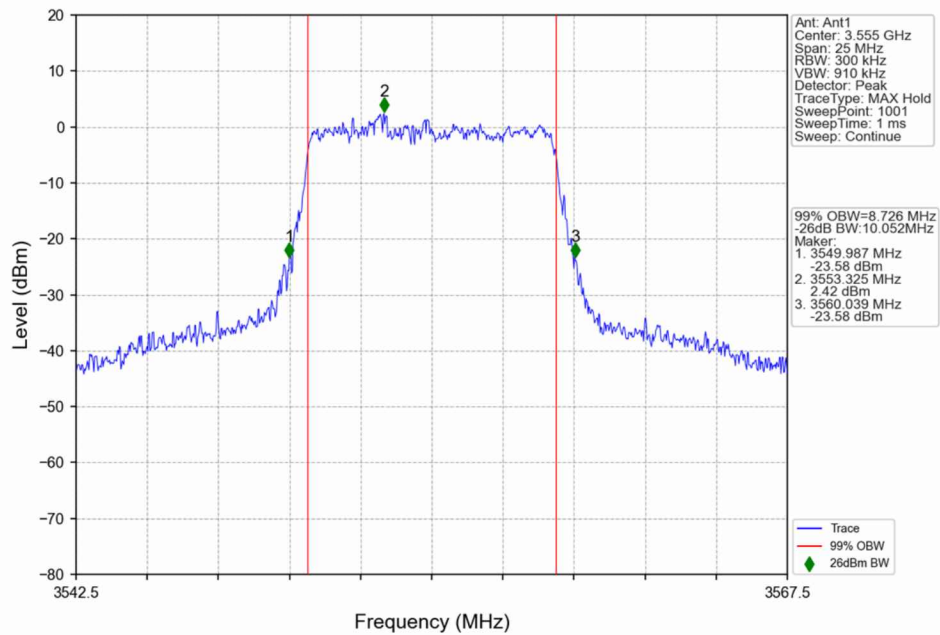
n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full



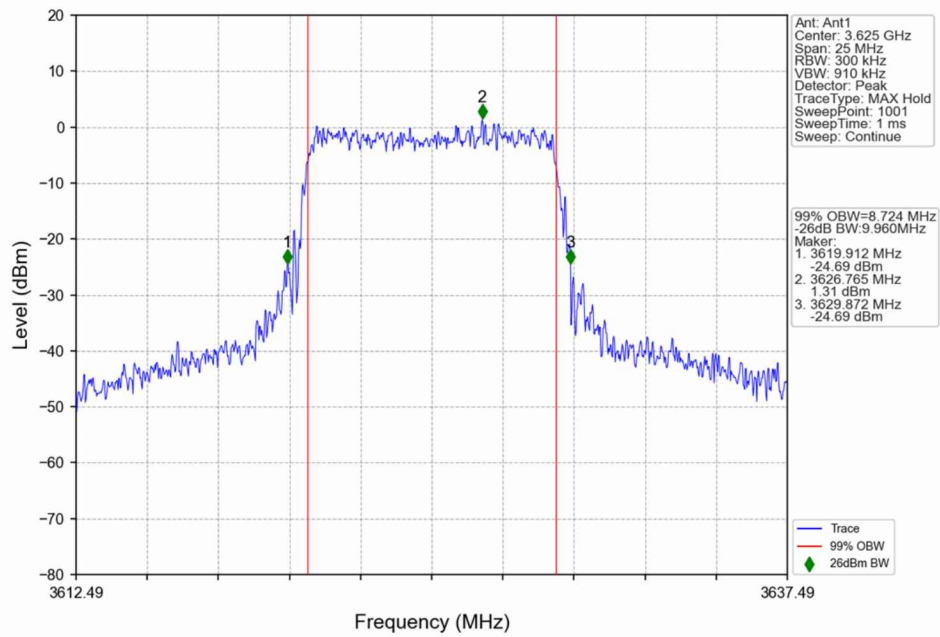
n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3694.98MHz_Outer_Full



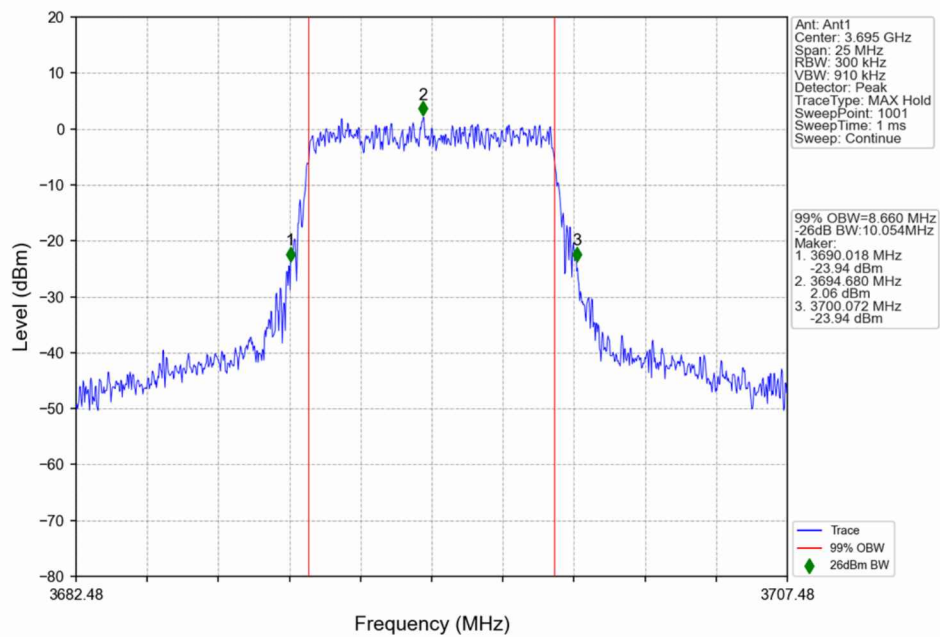
n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_3555MHz_Outer_Full



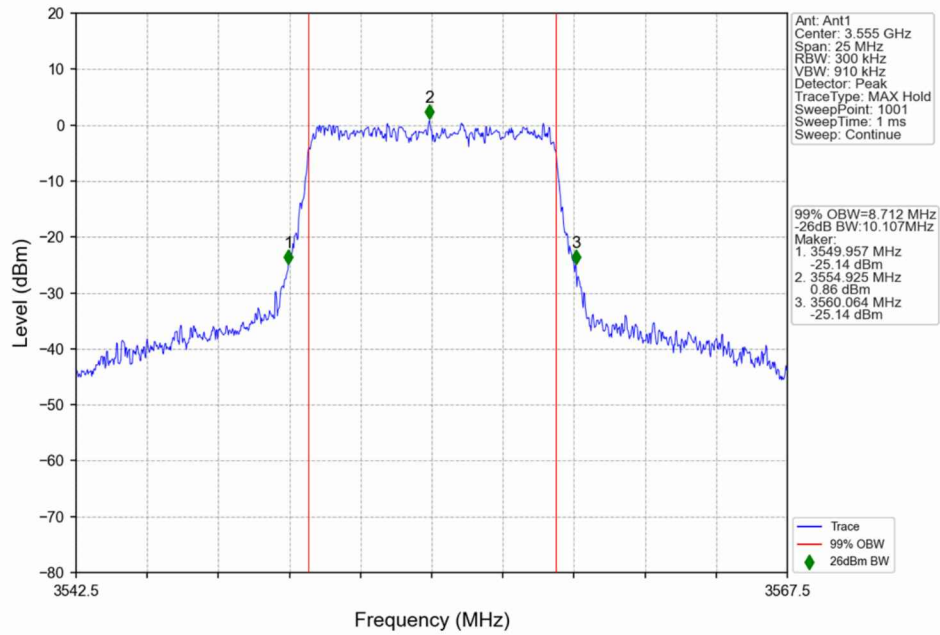
n48_30kHz_SISO_NTNV_10MHz_CP-OFDM_16 QAM_3624.99MHz_Outer_Full



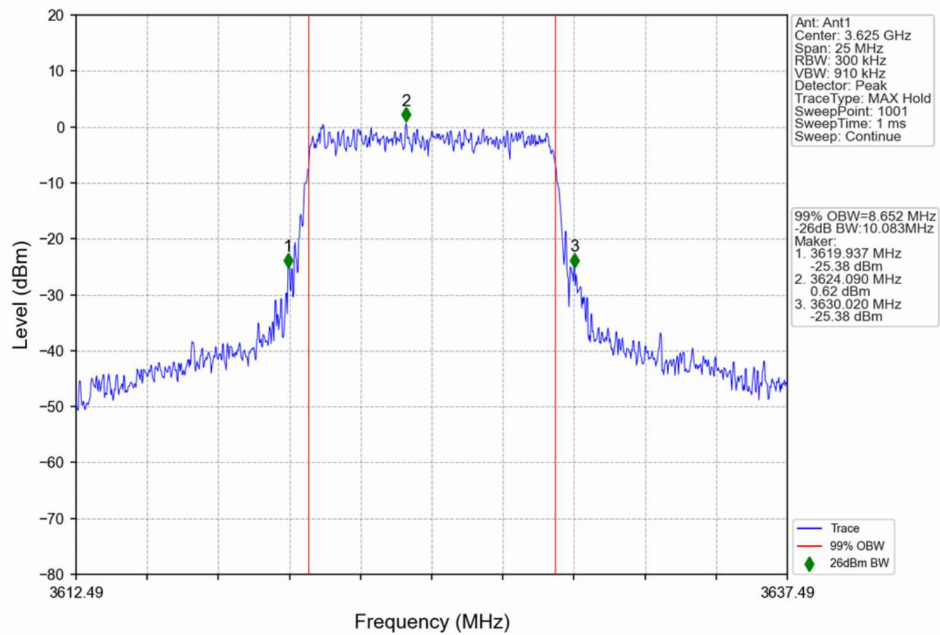
n48_30kHz_SISO_NTNV_10MHz_CP-OFDM_16 QAM_3694.98MHz_Outer_Full



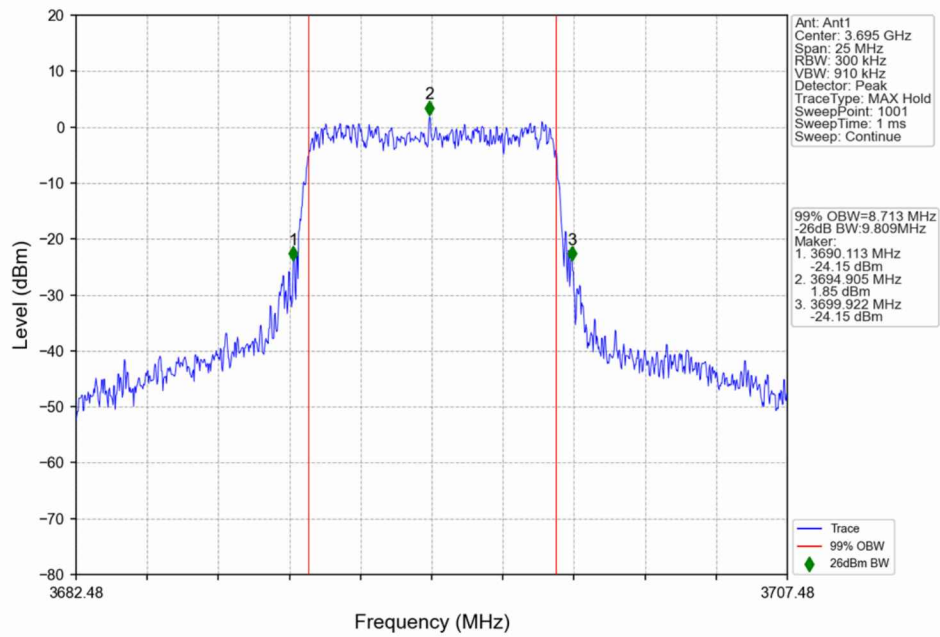
n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_3555MHz_Outer_Full



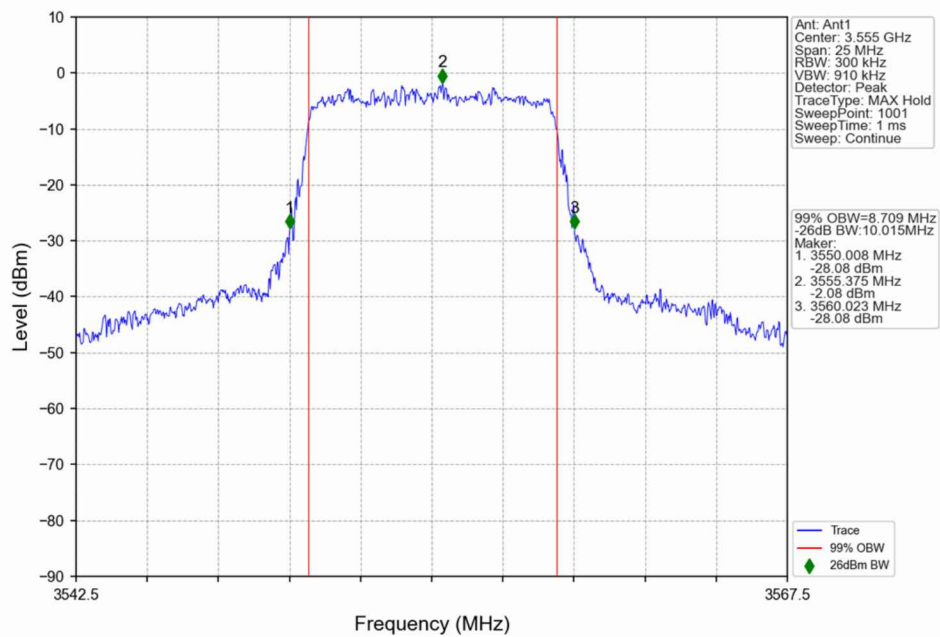
n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_3624.99MHz_Outer_Full



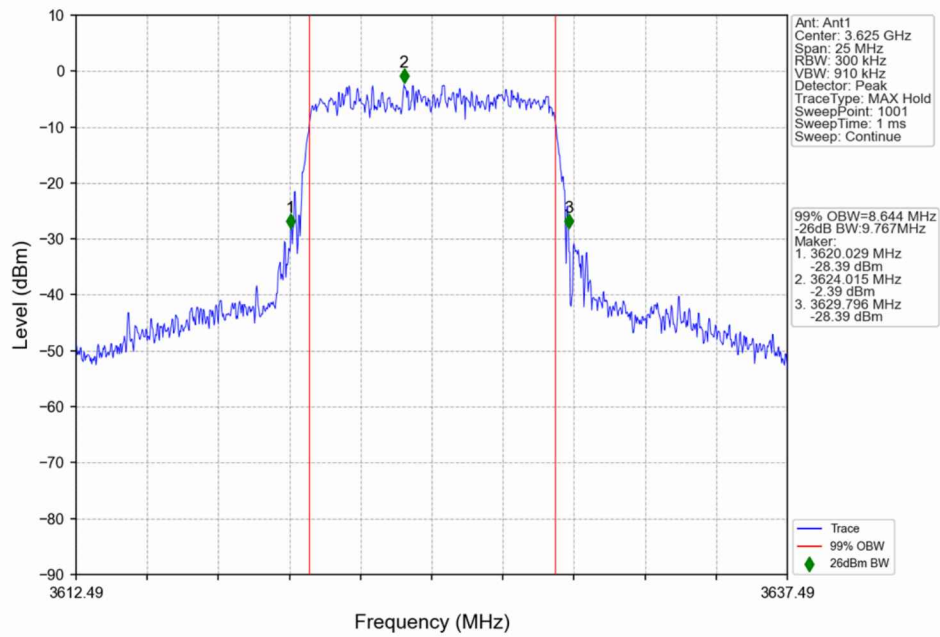
n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_3694.98MHz_Outer_Full



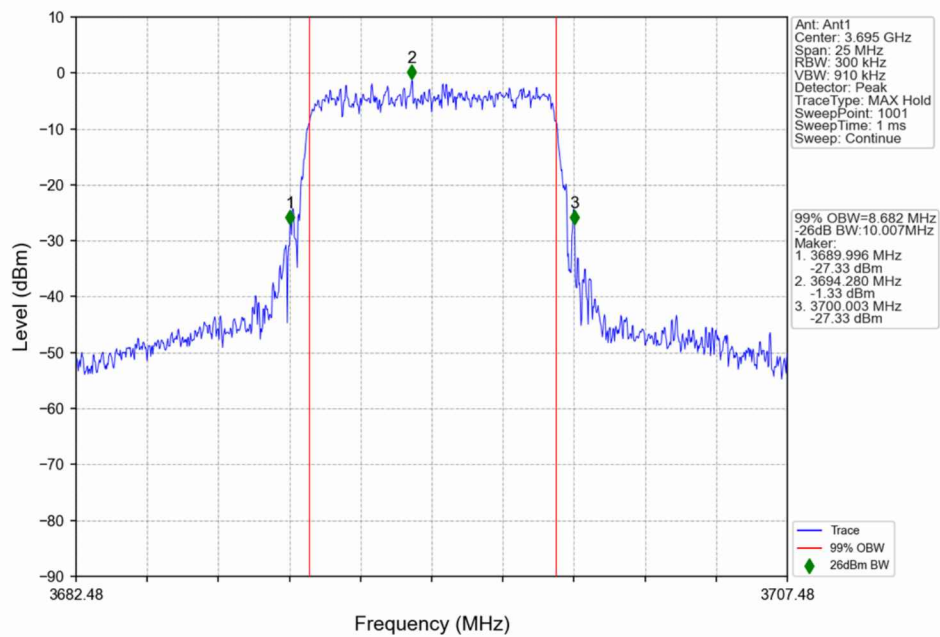
n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_3555MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM 3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM 3694.98MHz_Outer_Full

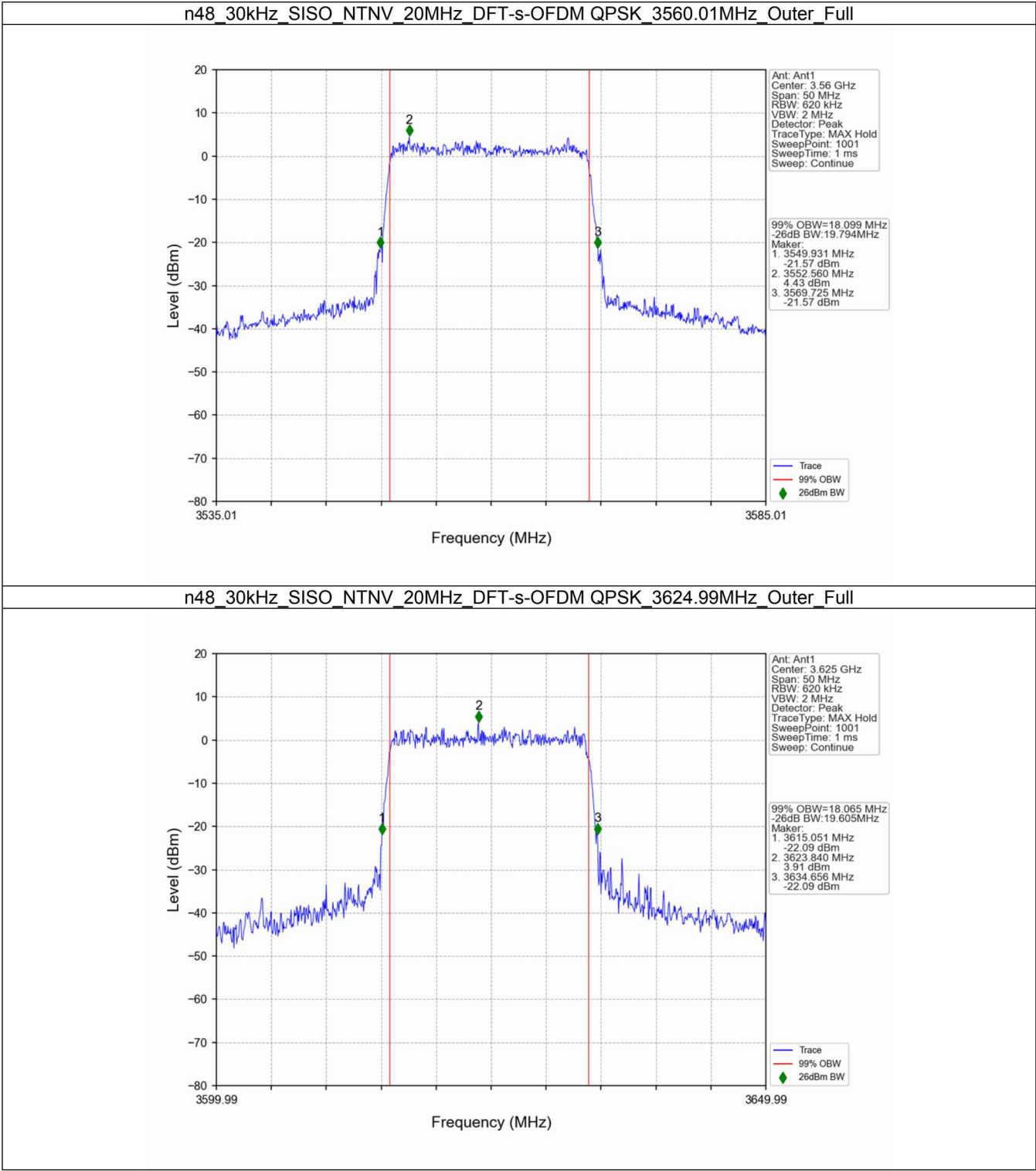


1.2 30k_SISO_20MHz_NTNV

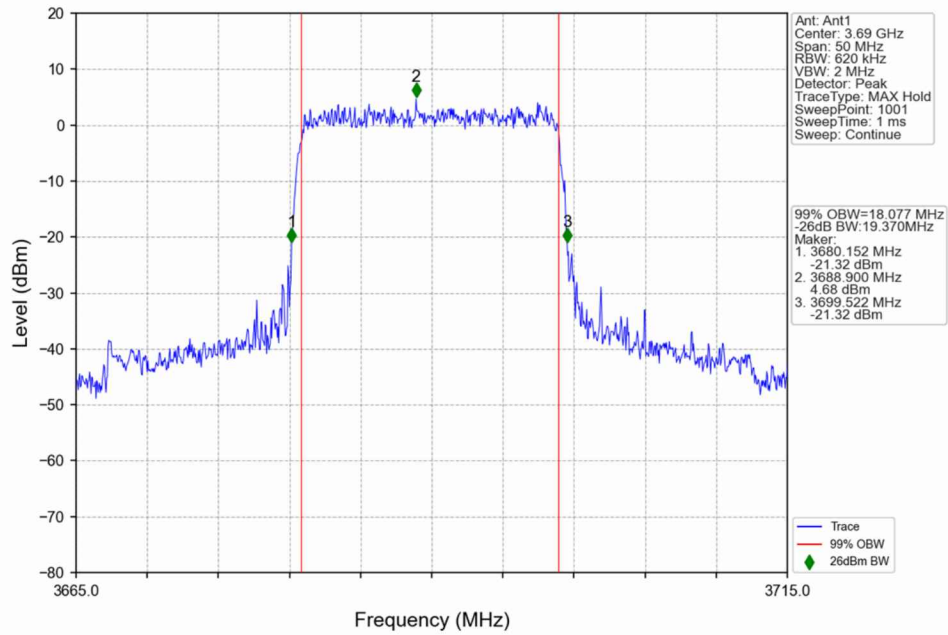
1.2.1 Test Result

5G NR n48 SCS=30kHz SISO 20MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM QPSK	3560.01	Outer_Full	18.10	19.79	/	Pass
	3624.99	Outer_Full	18.07	19.61	/	Pass
	3690	Outer_Full	18.08	19.37	/	Pass
DFT-s-OFDM 16 QAM	3560.01	Outer_Full	18.12	20.11	/	Pass
	3624.99	Outer_Full	18.05	19.67	/	Pass
	3690	Outer_Full	18.09	19.75	/	Pass
DFT-s-OFDM 64 QAM	3560.01	Outer_Full	18.14	19.90	/	Pass
	3624.99	Outer_Full	18.14	19.84	/	Pass
	3690	Outer_Full	18.16	19.76	/	Pass
DFT-s-OFDM 256 QAM	3560.01	Outer_Full	18.14	19.94	/	Pass
	3624.99	Outer_Full	18.12	19.57	/	Pass
	3690	Outer_Full	18.08	19.35	/	Pass
CP-OFDM QPSK	3560.01	Outer_Full	18.39	20.24	/	Pass
	3624.99	Outer_Full	18.36	20.06	/	Pass
	3690	Outer_Full	18.36	20.33	/	Pass
CP-OFDM 16 QAM	3560.01	Outer_Full	18.43	20.77	/	Pass
	3624.99	Outer_Full	18.44	19.90	/	Pass
	3690	Outer_Full	18.45	19.99	/	Pass
CP-OFDM 64 QAM	3560.01	Outer_Full	18.37	20.24	/	Pass
	3624.99	Outer_Full	18.43	19.70	/	Pass
	3690	Outer_Full	18.38	20.08	/	Pass
CP-OFDM 256 QAM	3560.01	Outer_Full	18.42	20.36	/	Pass
	3624.99	Outer_Full	18.34	20.03	/	Pass
	3690	Outer_Full	18.39	20.15	/	Pass

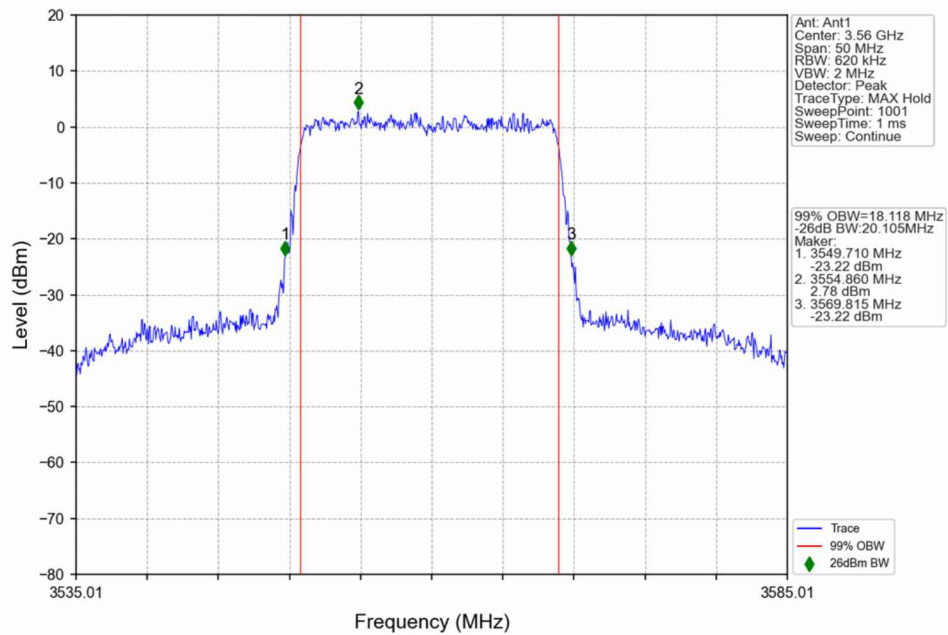
1.2.2 Test Graph



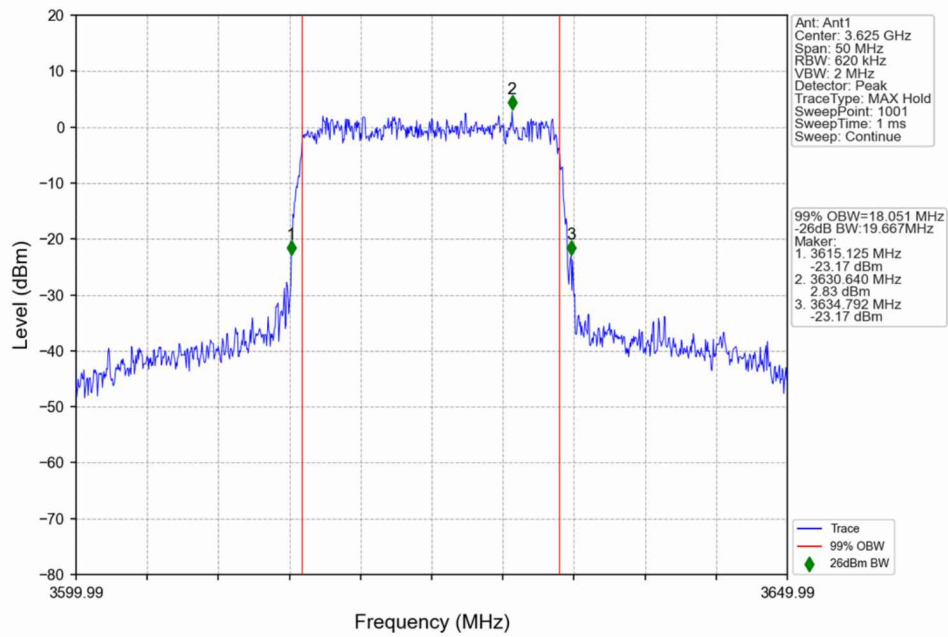
n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3690MHz_Outer_Full



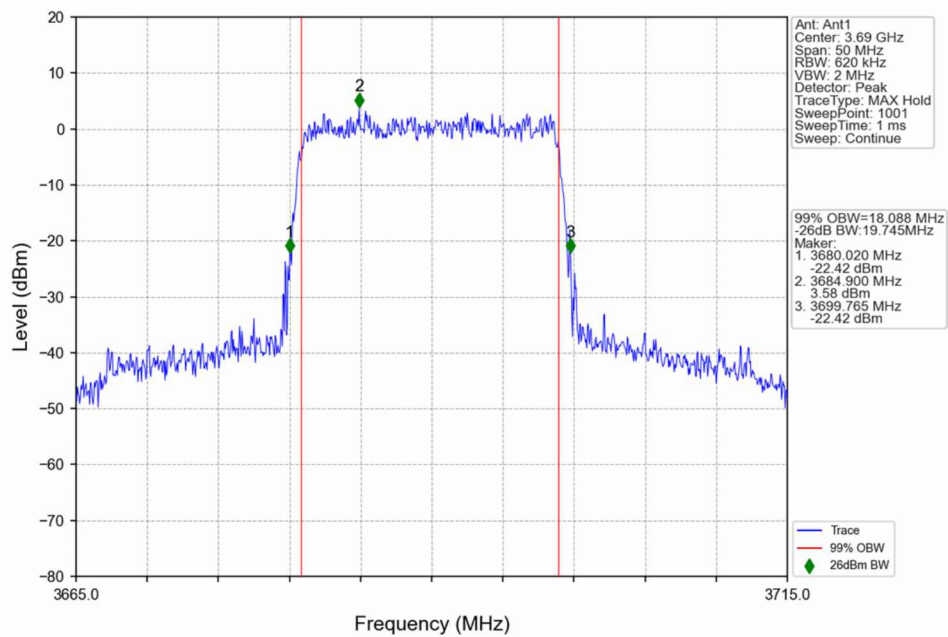
n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_3560.01MHz_Outer_Full



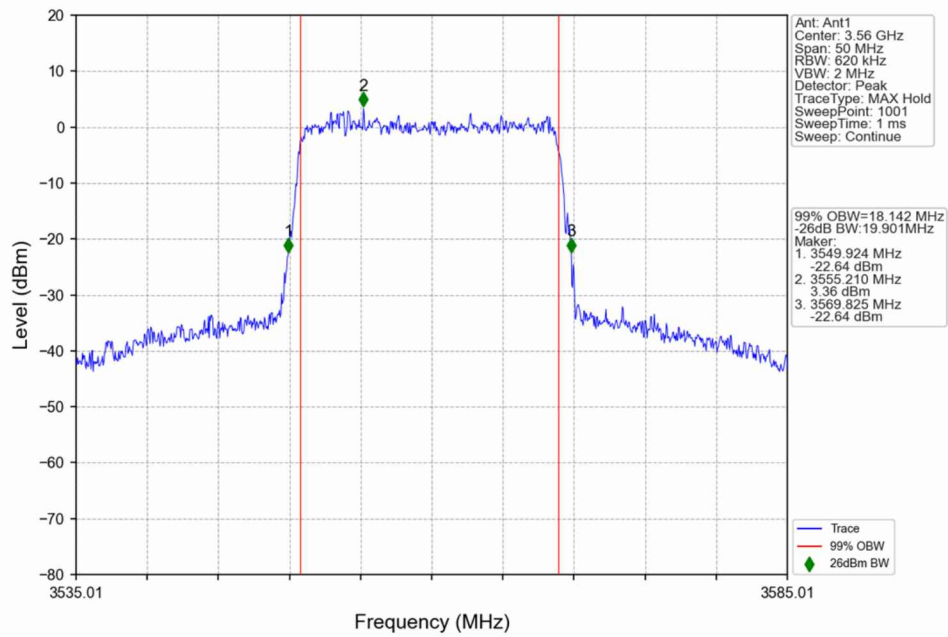
n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_3624.99MHz_Outer_Full



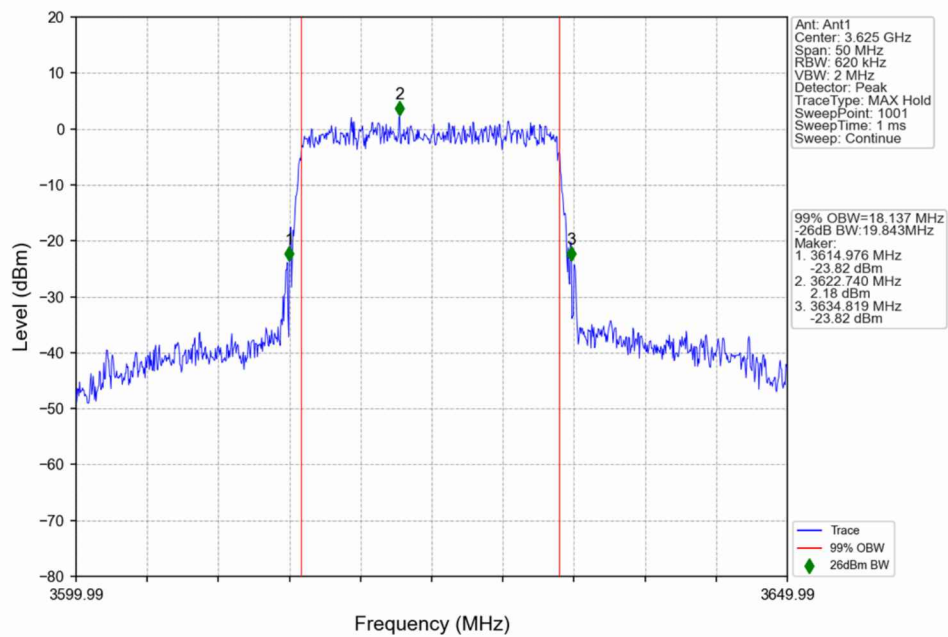
n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_3690MHz_Outer_Full



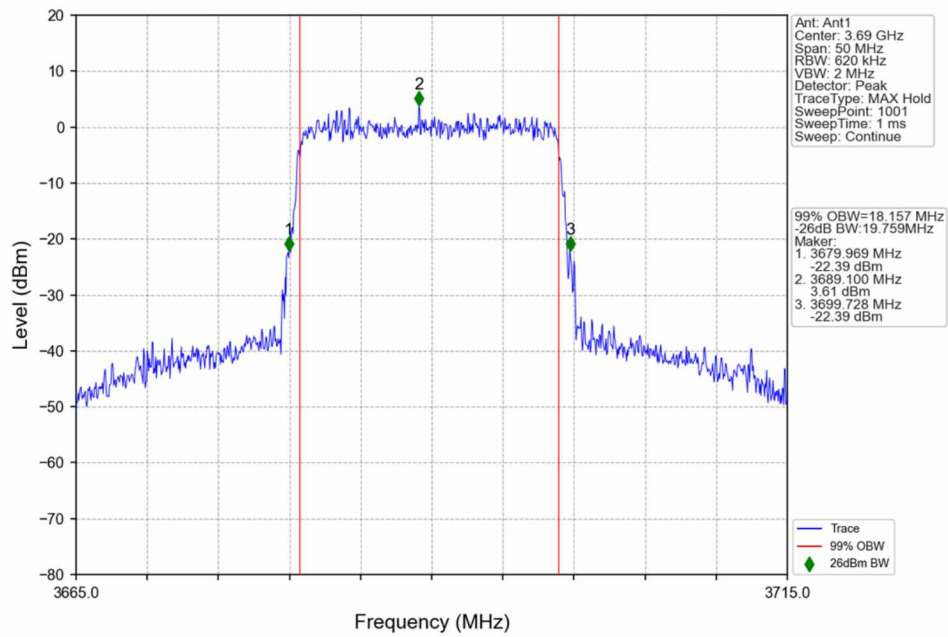
n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_3560.01MHz_Outer_Full



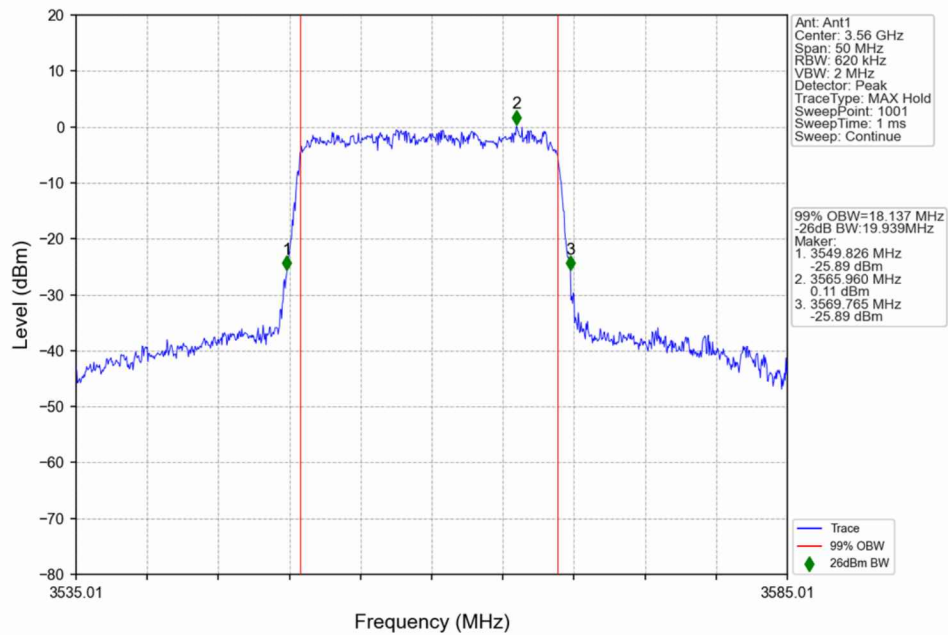
n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_3624.99MHz_Outer_Full



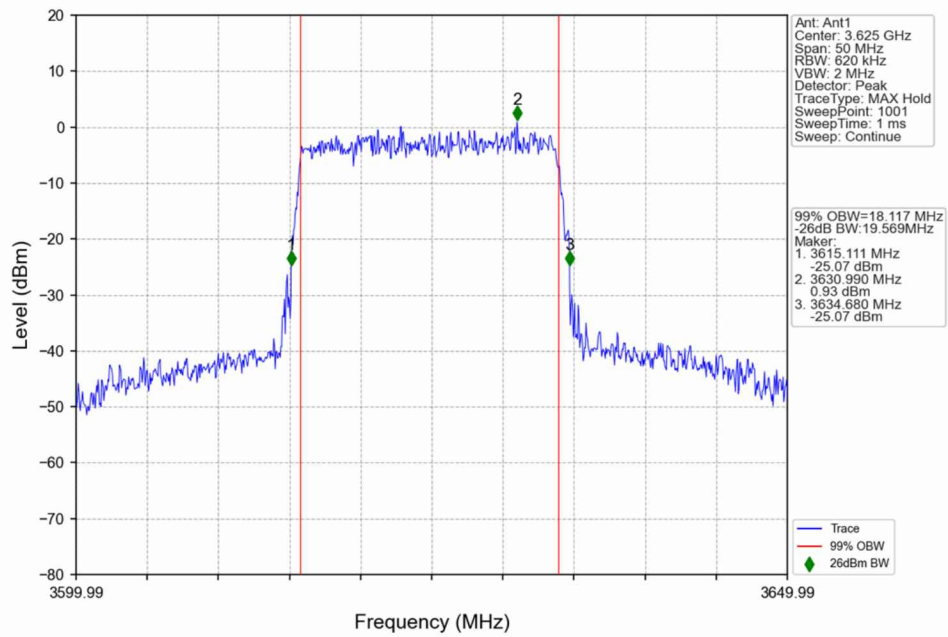
n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_3690MHz_Outer_Full



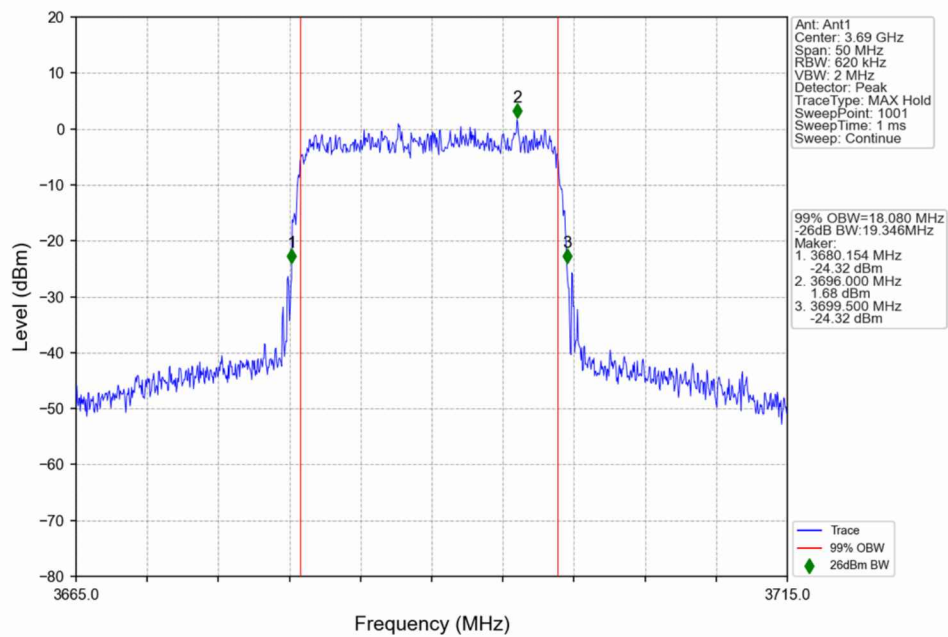
n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_3560.01MHz_Outer_Full



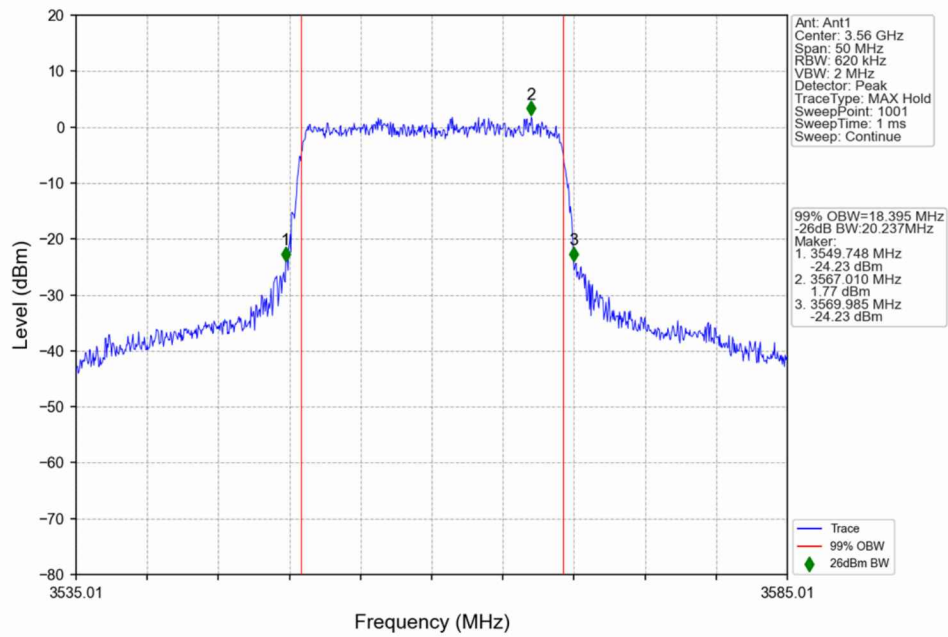
n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_3624.99MHz_Outer_Full



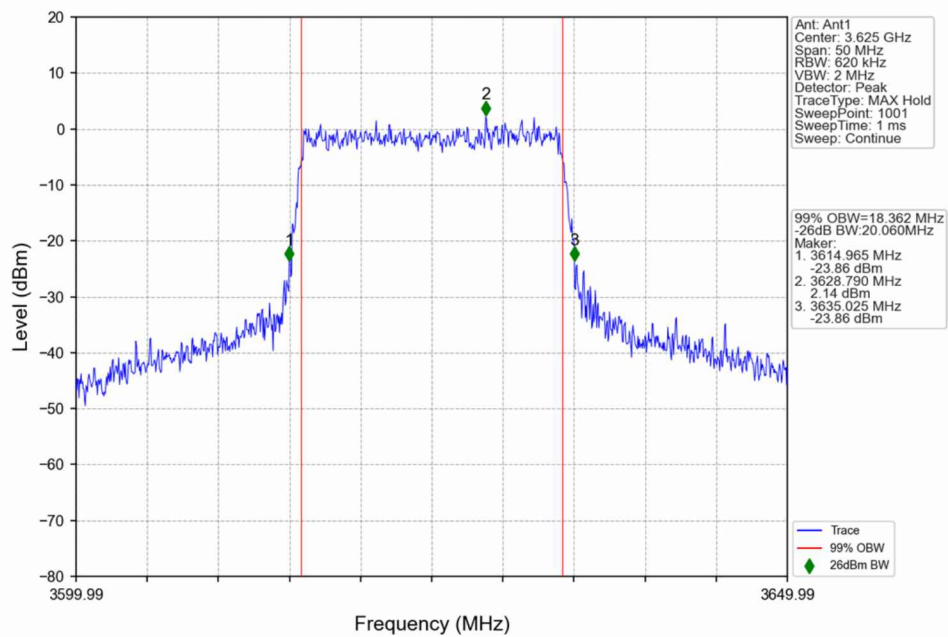
n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_3690MHz_Outer_Full



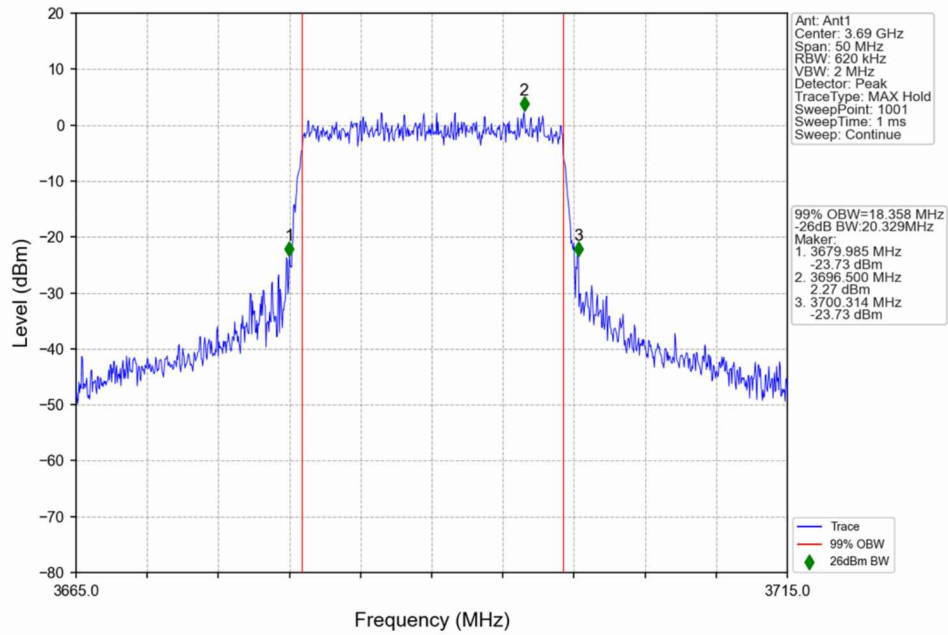
n48_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3560.01MHz_Outer_Full



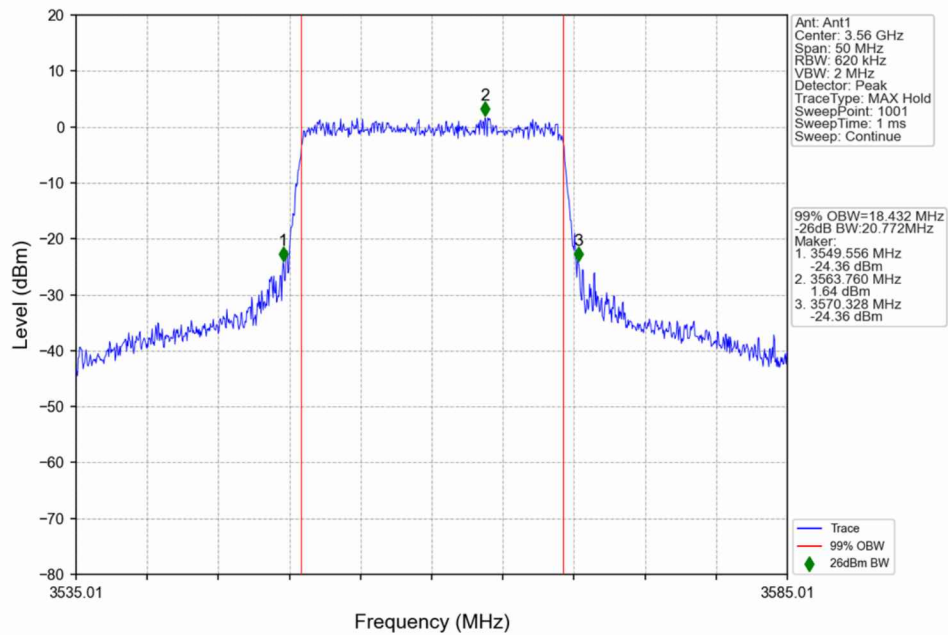
n48_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full



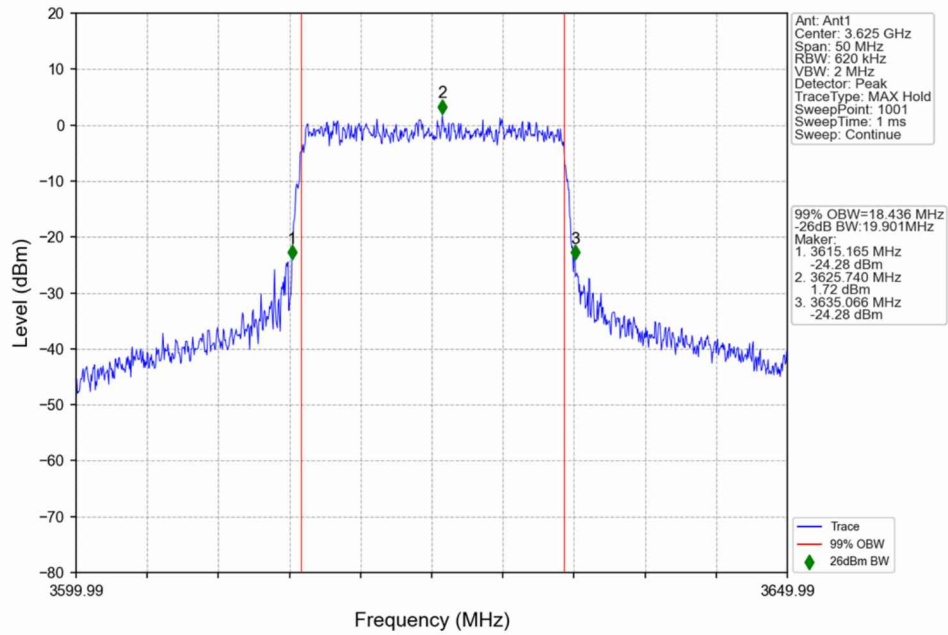
n48_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3690MHz_Outer_Full



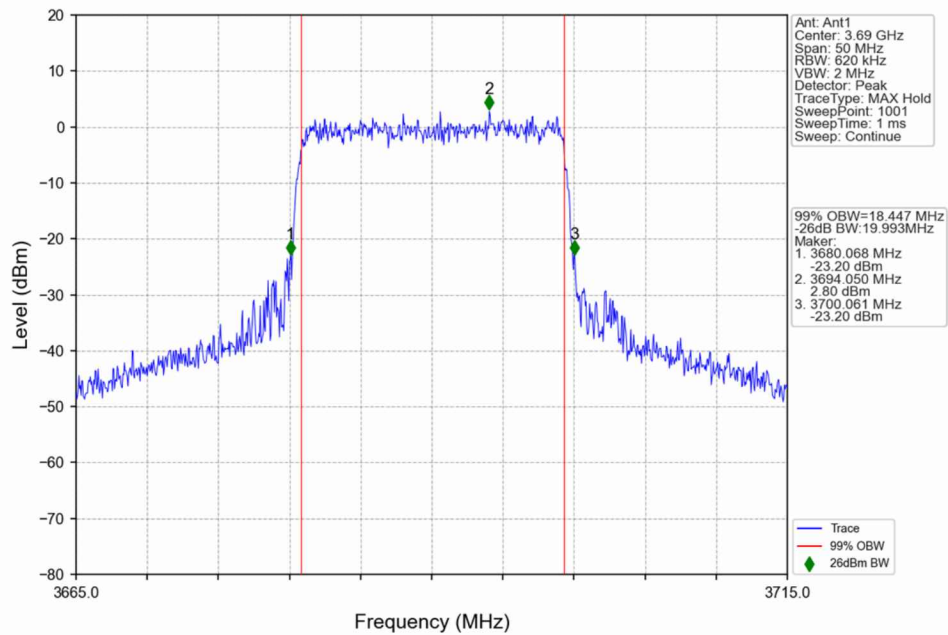
n48_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_3560.01MHz_Outer_Full



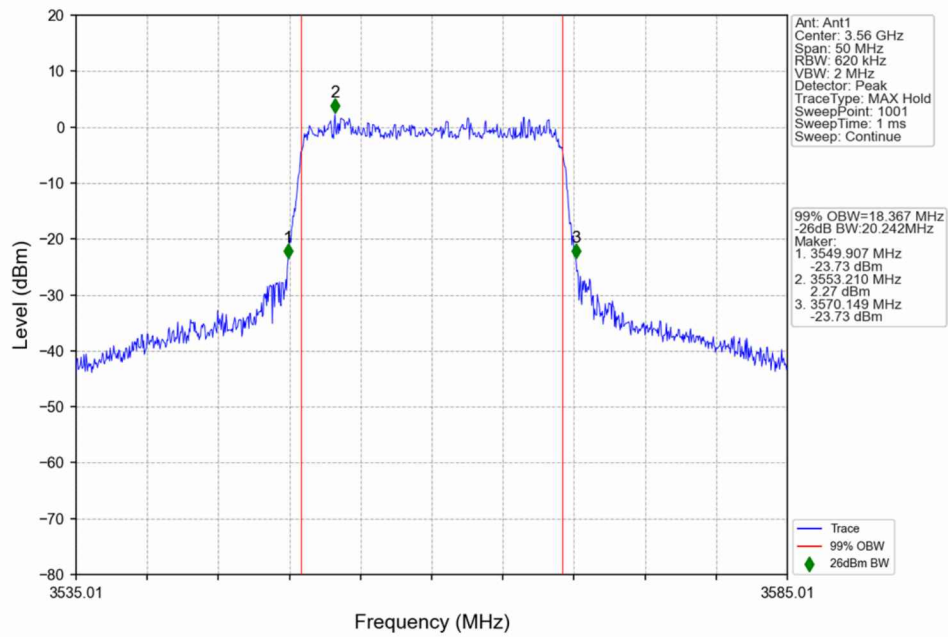
n48_30kHz_SISO_NTNV_20MHz_CP-OFDM_16 QAM_3624.99MHz_Outer_Full



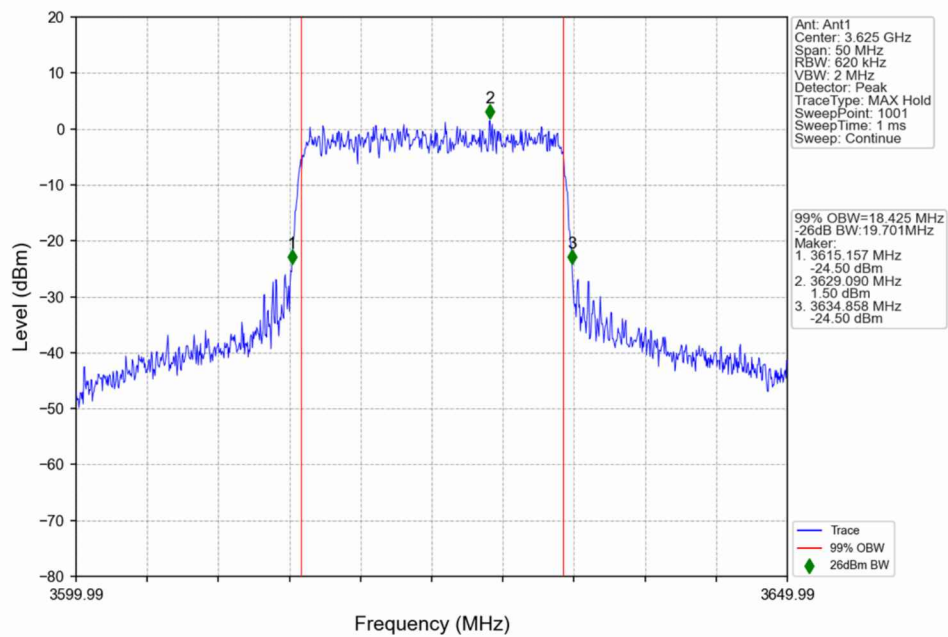
n48_30kHz_SISO_NTNV_20MHz_CP-OFDM_16 QAM_3690MHz_Outer_Full



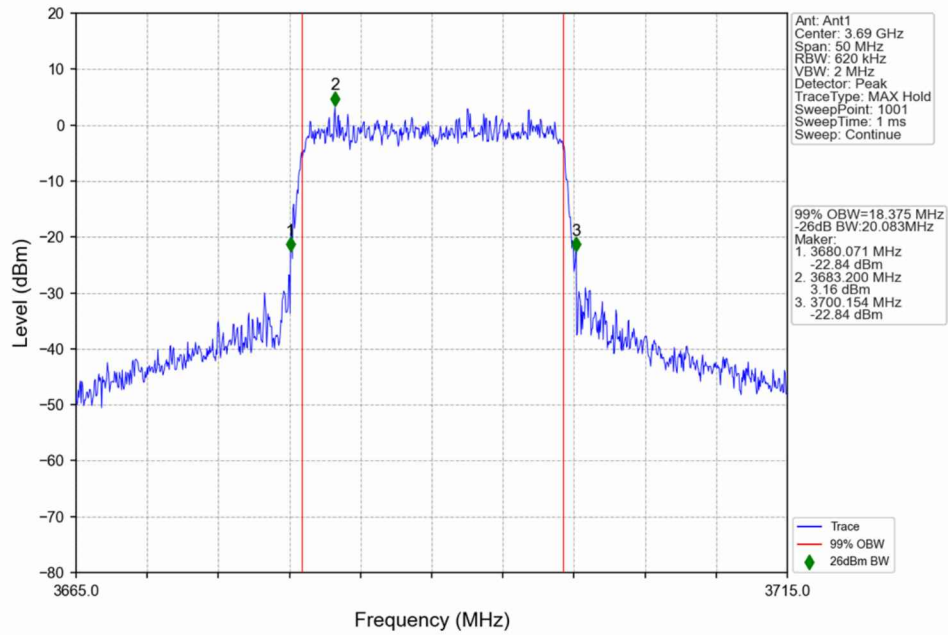
n48_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_3560.01MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_3690MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_3560.01MHz_Outer_Full

