1. 99% & 26dB Bandwidth

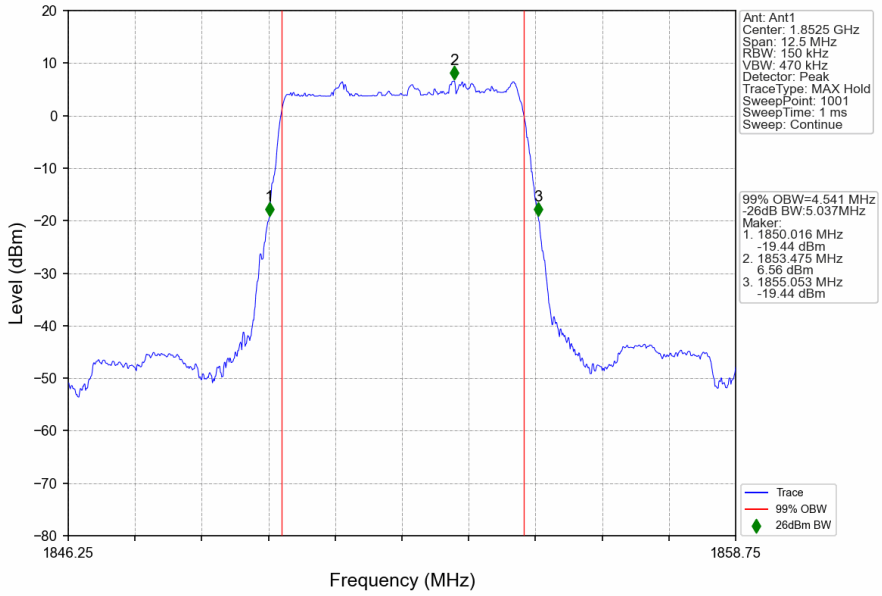
1.1 15k_SISO_5MHz_NTNV

1.1.1 Test Result

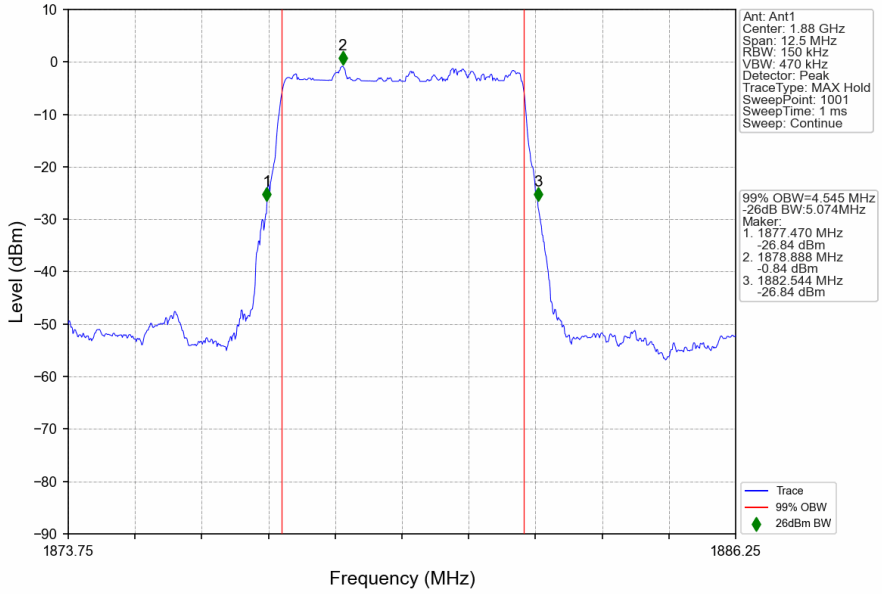
5G NR n2 SCS=15kHz SISO 5MHz NTNV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1852.5	Outer_Full	4.54	5.04	/	Pass
	1880	Outer_Full	4.54	5.07	/	Pass
	1907.5	Outer_Full	4.55	5.15	/	Pass
DFT-s-OFDM QPSK	1852.5	Outer_Full	4.53	5.04	/	Pass
	1880	Outer_Full	4.53	5.05	/	Pass
	1907.5	Outer_Full	4.52	5.05	/	Pass
DFT-s-OFDM 16 QAM	1852.5	Outer_Full	4.54	5.06	/	Pass
	1880	Outer_Full	4.54	5.12	/	Pass
	1907.5	Outer_Full	4.54	5.03	/	Pass
DFT-s-OFDM 64 QAM	1852.5	Outer_Full	4.53	5.05	/	Pass
	1880	Outer_Full	4.54	5.05	/	Pass
	1907.5	Outer_Full	4.53	5.06	/	Pass
DFT-s-OFDM 256 QAM	1852.5	Outer_Full	4.53	5.07	/	Pass
	1880	Outer_Full	4.54	5.08	/	Pass
	1907.5	Outer_Full	4.52	5.07	/	Pass
CP-OFDM QPSK	1852.5	Outer_Full	4.52	5.05	/	Pass
	1880	Outer_Full	4.53	5.12	/	Pass
	1907.5	Outer_Full	4.54	5.11	/	Pass
CP-OFDM 16 QAM	1852.5	Outer_Full	4.57	5.13	/	Pass
	1880	Outer_Full	4.56	5.09	/	Pass
	1907.5	Outer_Full	4.54	5.05	/	Pass
CP-OFDM 64 QAM	1852.5	Outer_Full	4.54	5.11	/	Pass
	1880	Outer_Full	4.54	5.13	/	Pass
	1907.5	Outer_Full	4.54	5.10	/	Pass
CP-OFDM 256 QAM	1852.5	Outer_Full	4.53	5.12	/	Pass
	1880	Outer_Full	4.54	5.09	/	Pass
	1907.5	Outer_Full	4.54	5.14	/	Pass

1.1.2 Test Graph

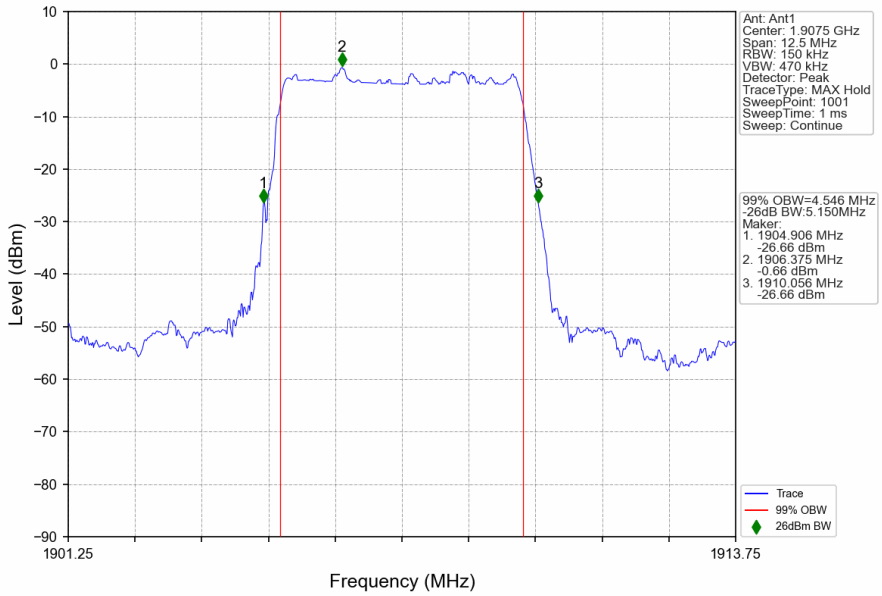
n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_1852.5MHz_Outer_Full



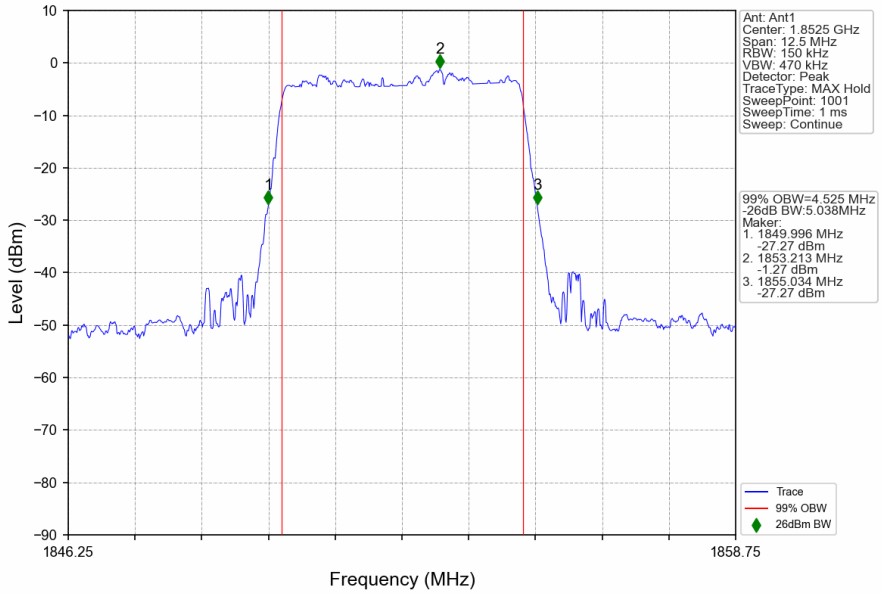
n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_1880MHz_Outer_Full



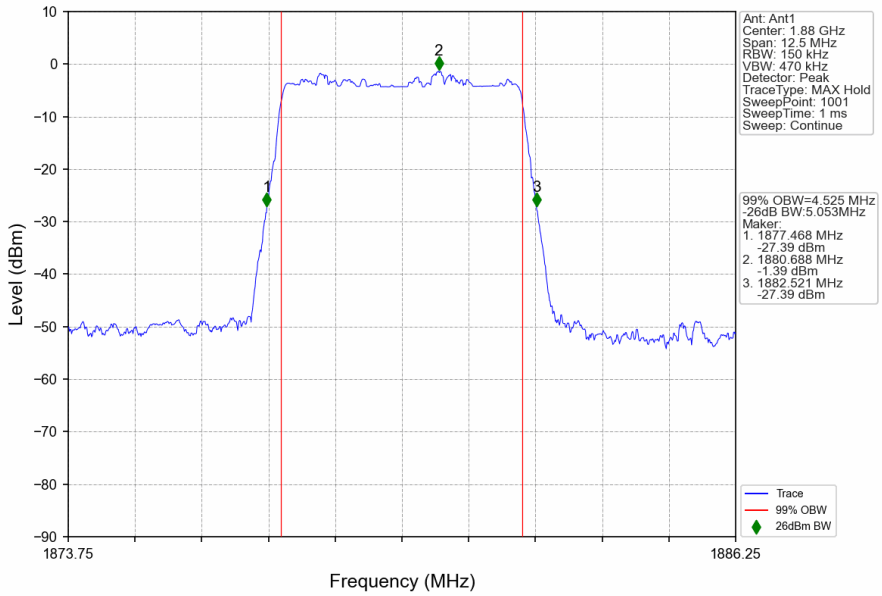
n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_1907.5MHz_Outer_Full



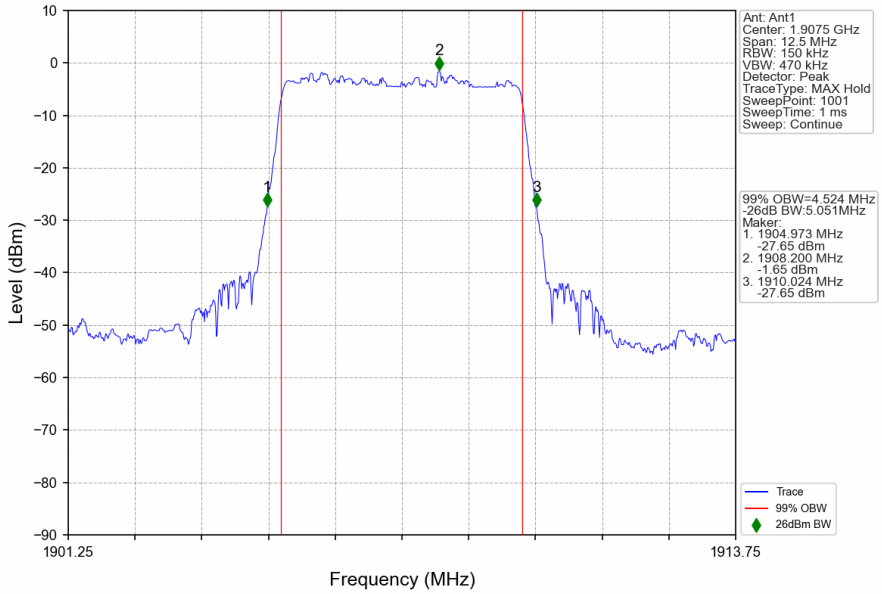
n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_1852.5MHz_Outer_Full



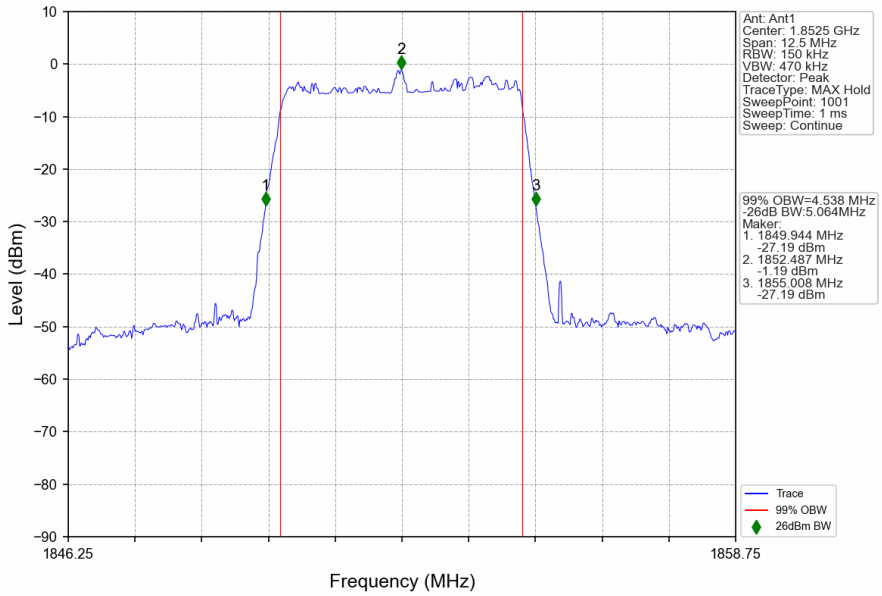
n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_1880MHz_Outer_Full



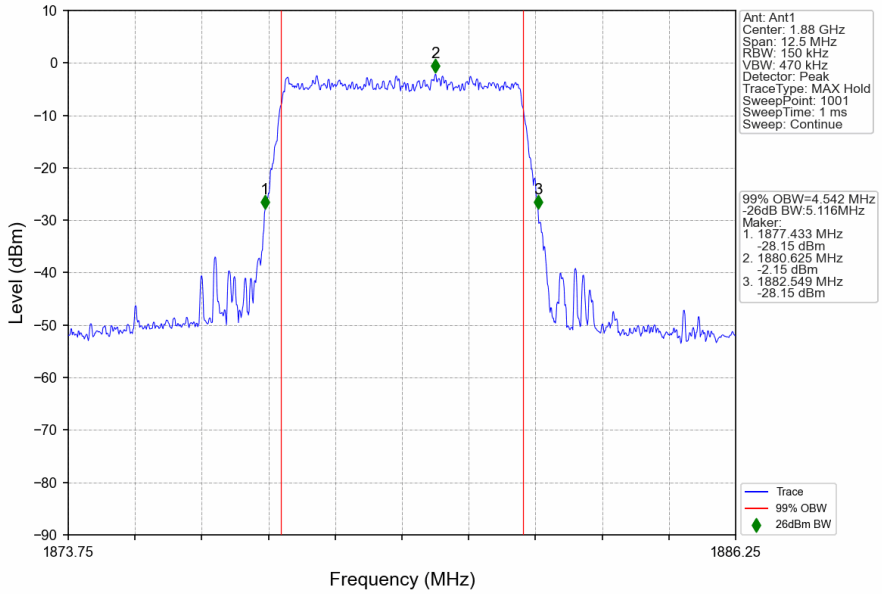
n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_1907.5MHz_Outer_Full



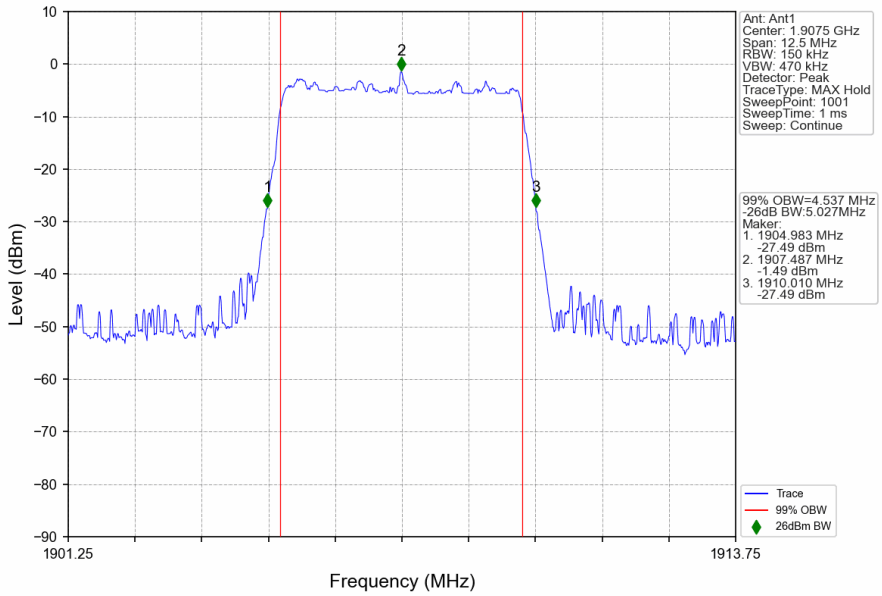
n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 16 QAM_1852.5MHz_Outer_Full



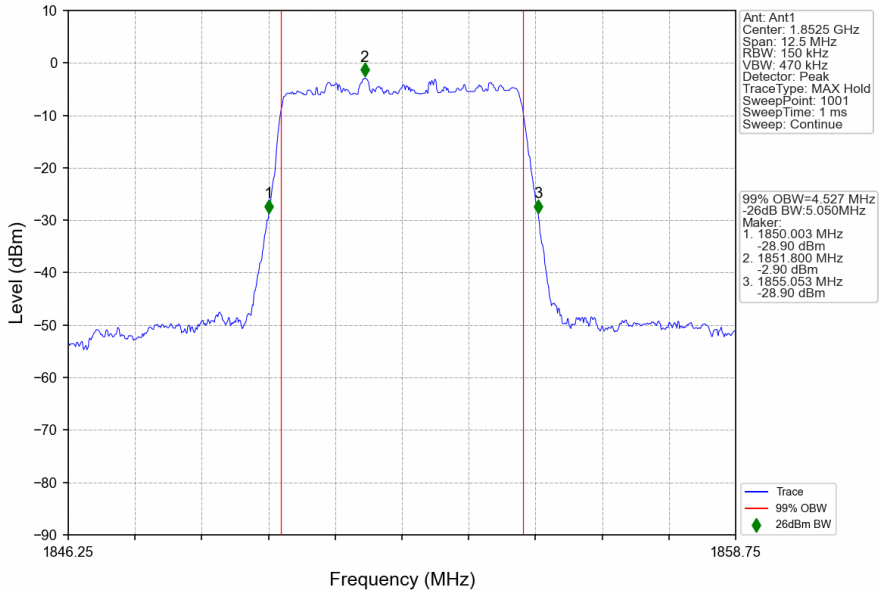
n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 16 QAM_1880MHz_Outer_Full



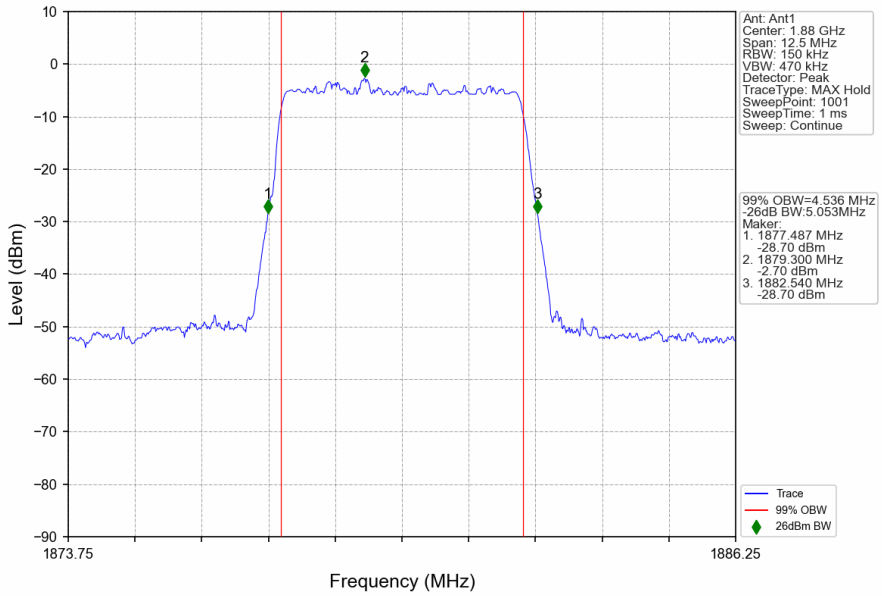
n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 16 QAM_1907.5MHz_Outer_Full



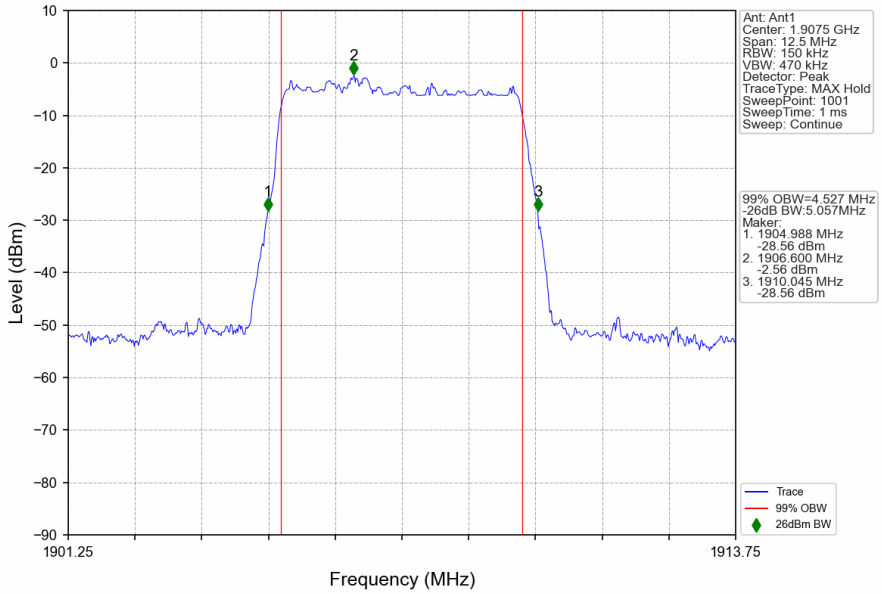
n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 64 QAM_1852.5MHz_Outer_Full



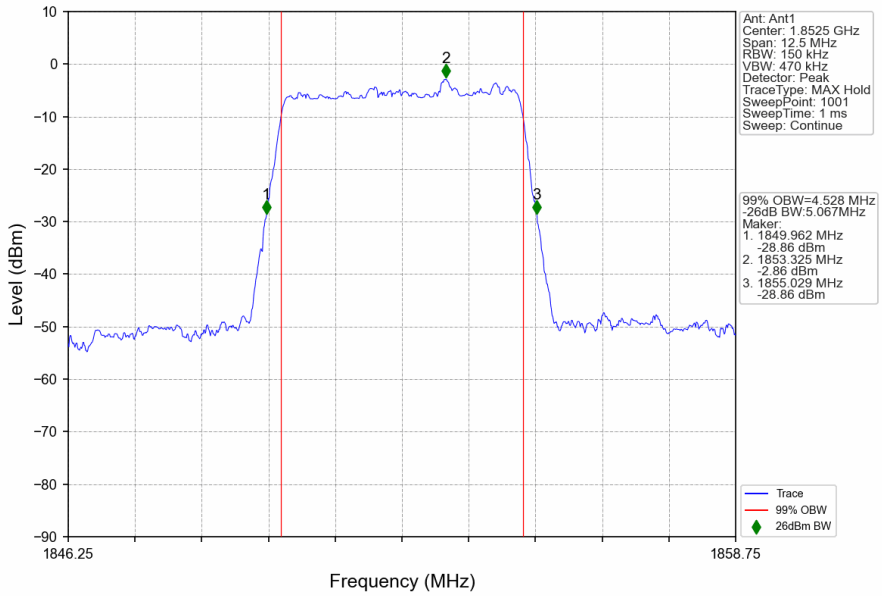
n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 64 QAM_1880MHz_Outer_Full



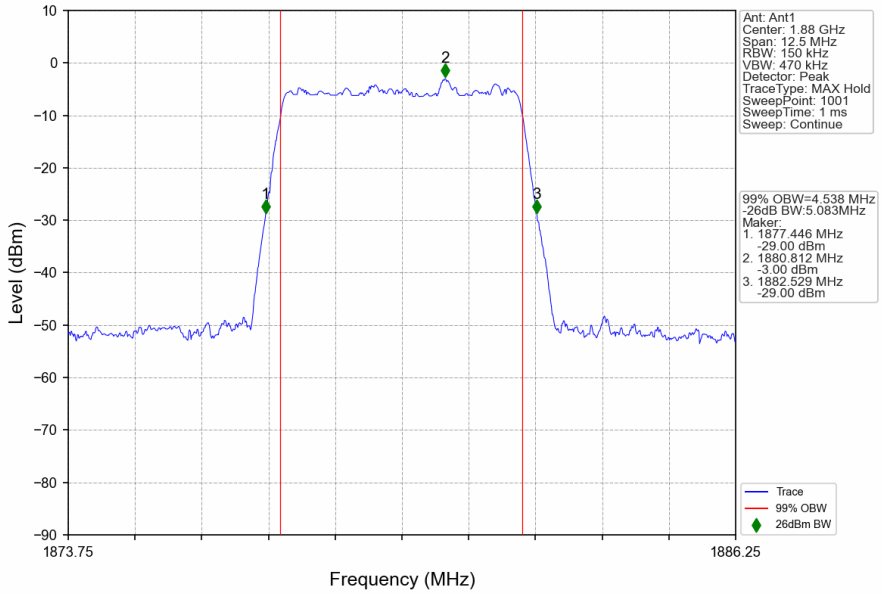
n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 64 QAM_1907.5MHz_Outer_Full



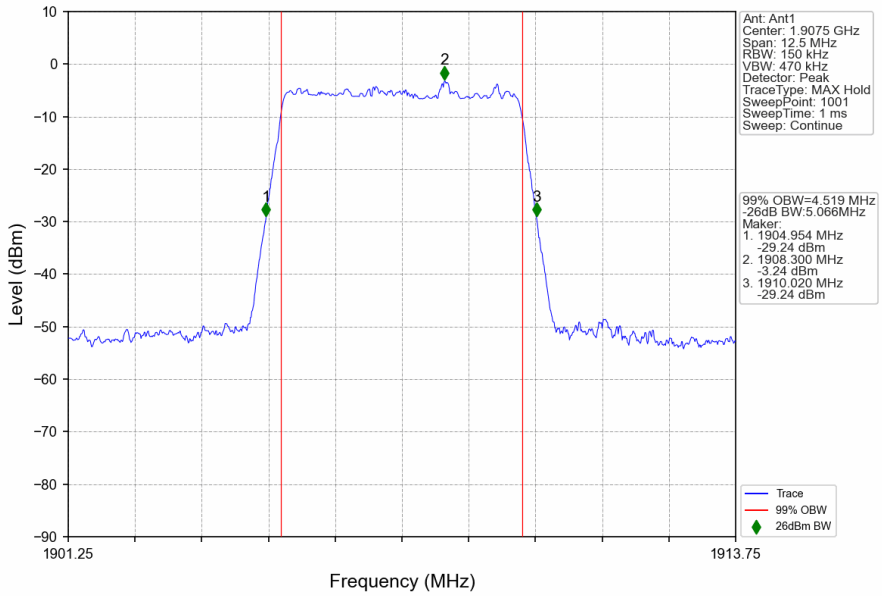
n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 256 QAM_1852.5MHz_Outer_Full



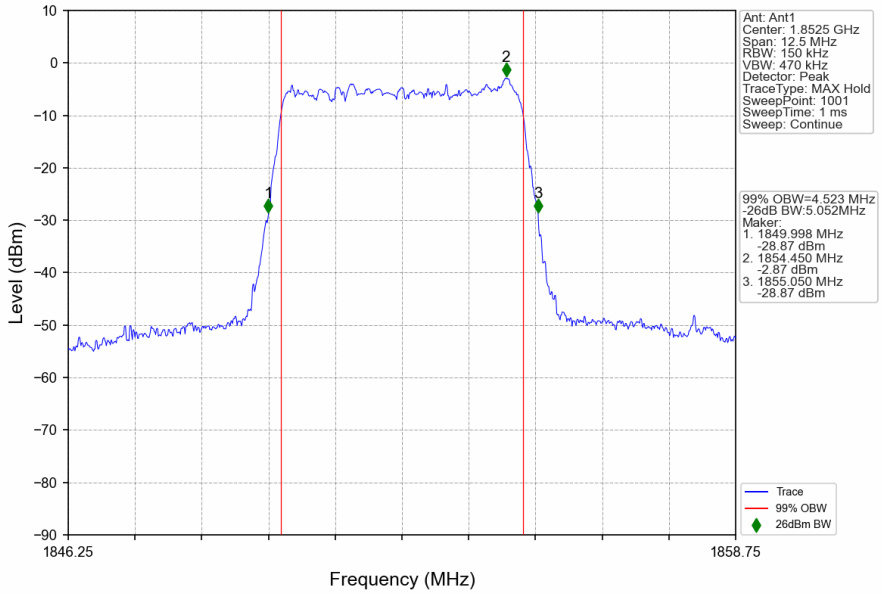
n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 256 QAM_1880MHz_Outer_Full



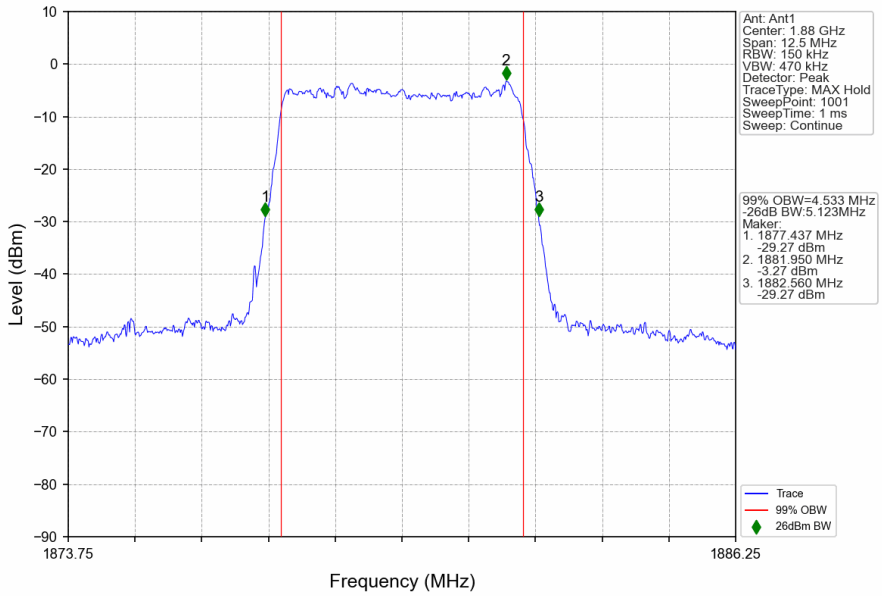
n2_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 256 QAM_1907.5MHz_Outer_Full



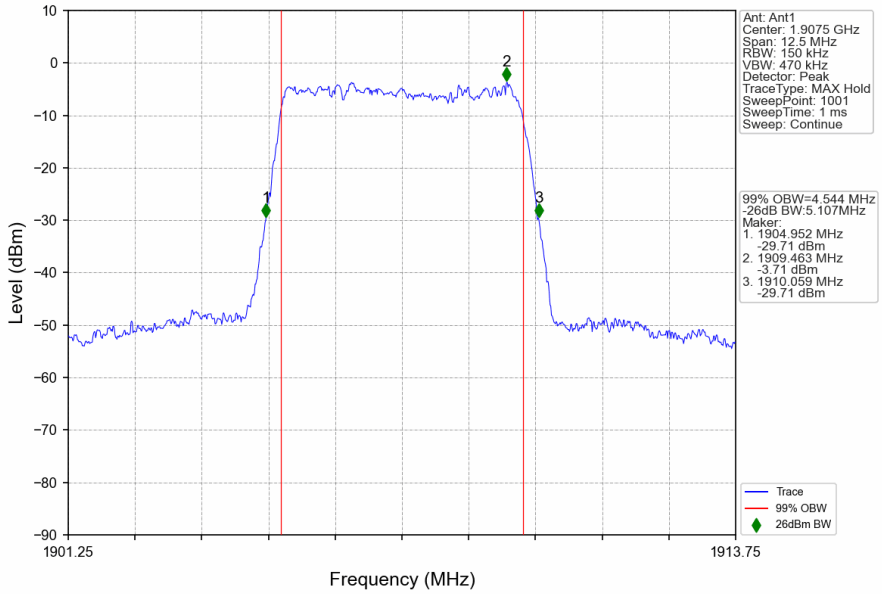
n2_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_1852.5MHz_Outer_Full



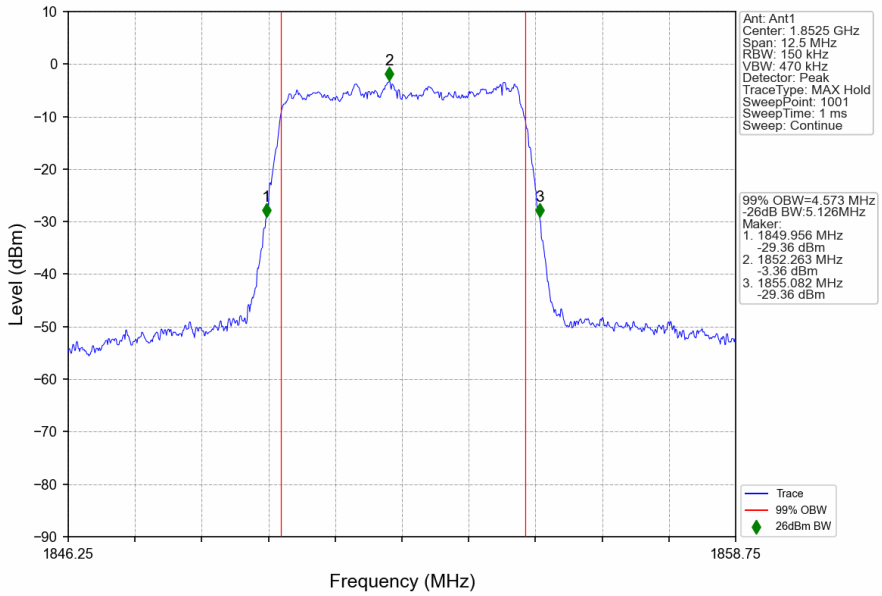
n2_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_1880MHz_Outer_Full



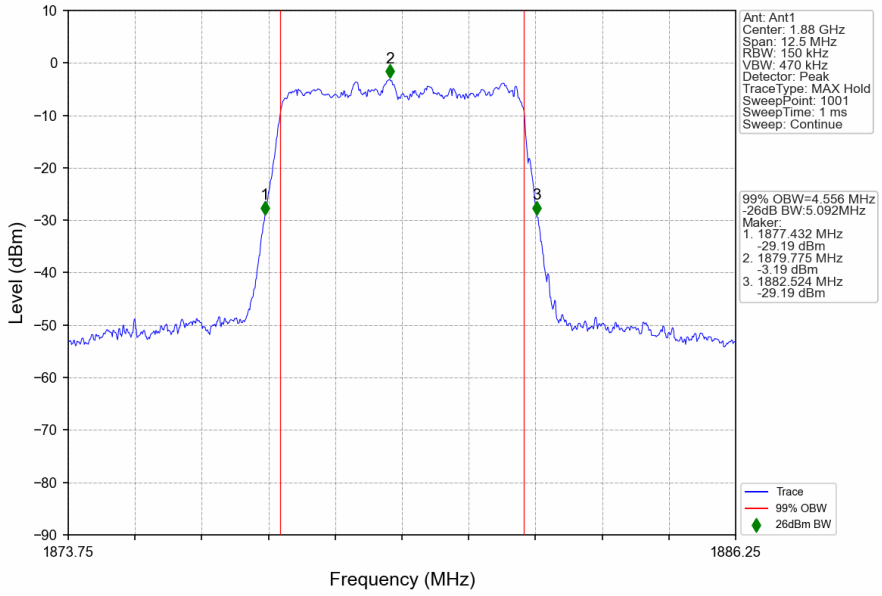
n2_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_1907.5MHz_Outer_Full



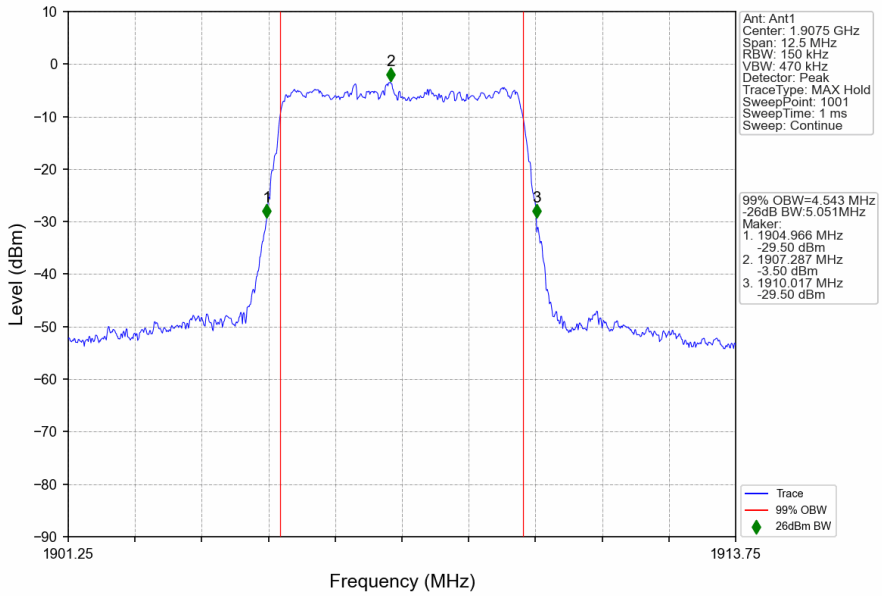
n2_15kHz_SISO_NTNV_5MHz_CP-OFDM 16 QAM_1852.5MHz_Outer_Full



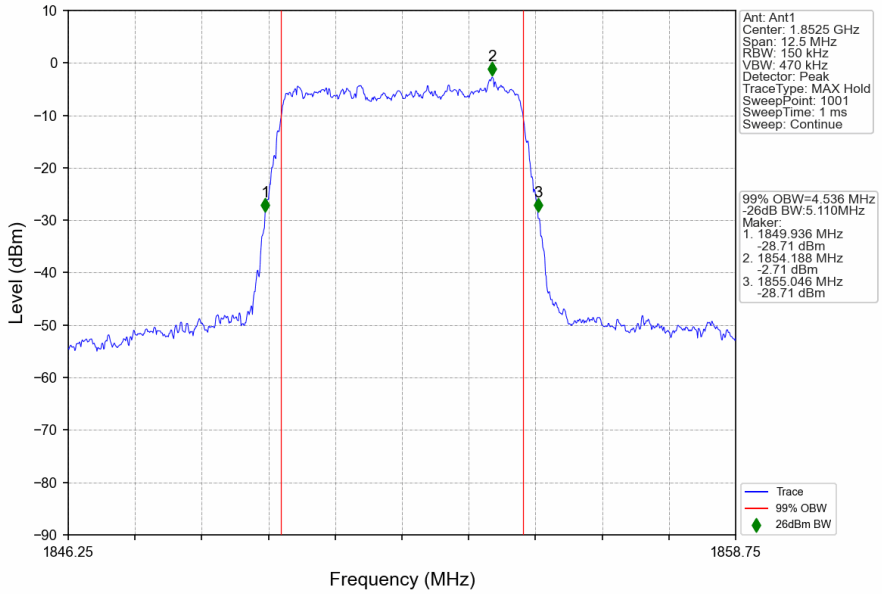
n2_15kHz_SISO_NTNV_5MHz_CP-OFDM 16 QAM_1880MHz_Outer_Full



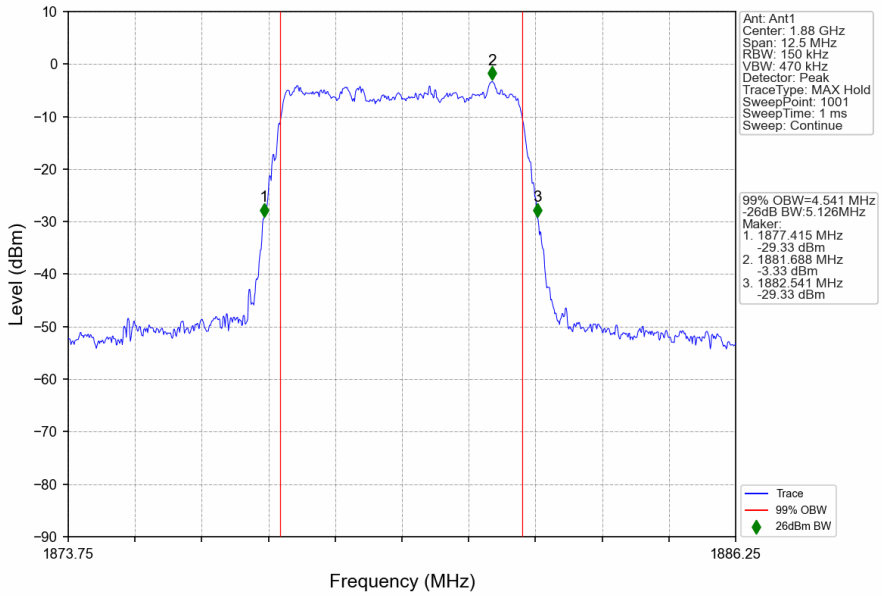
n2_15kHz_SISO_NTNV_5MHz_CP-OFDM 16 QAM_1907.5MHz_Outer_Full



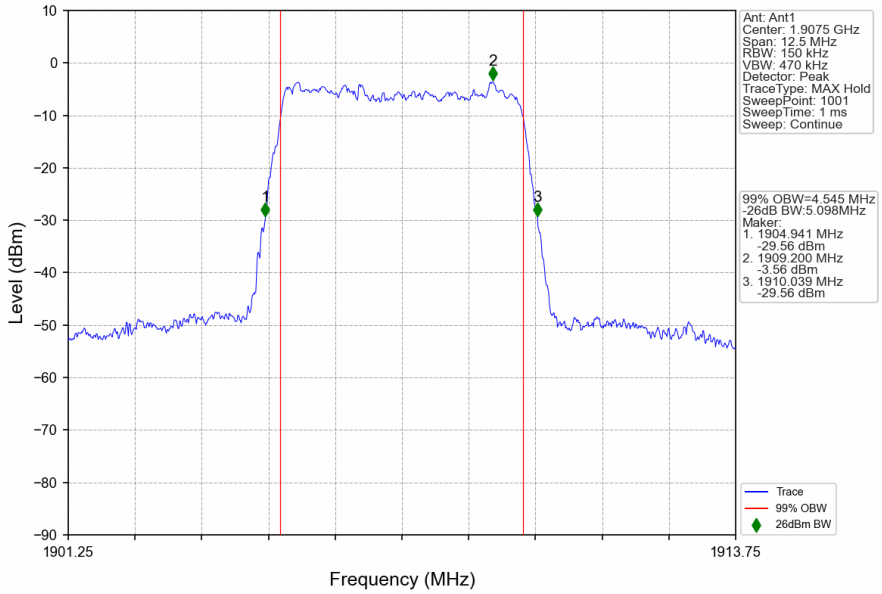
n2_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM_1852.5MHz_Outer_Full



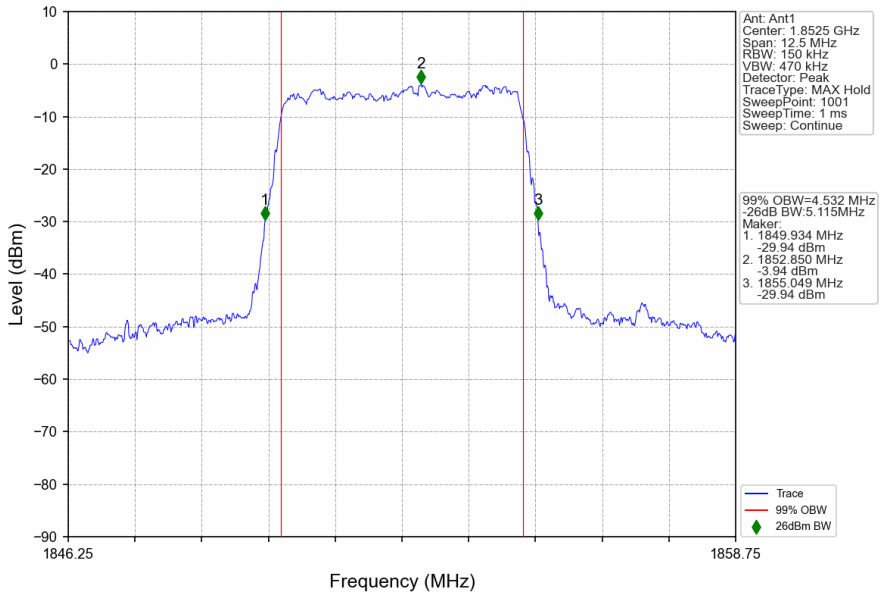
n2_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM_1880MHz_Outer_Full



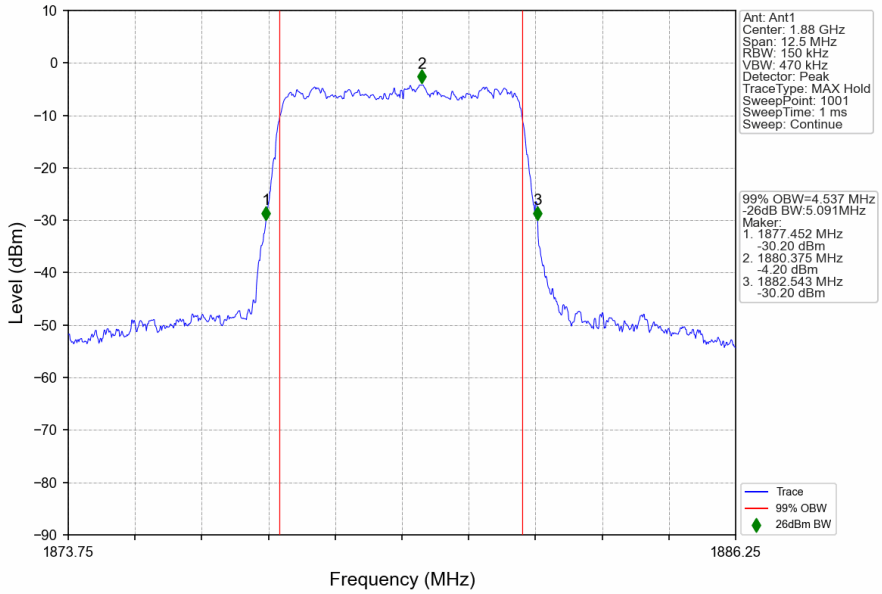
n2_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM_1907.5MHz_Outer_Full



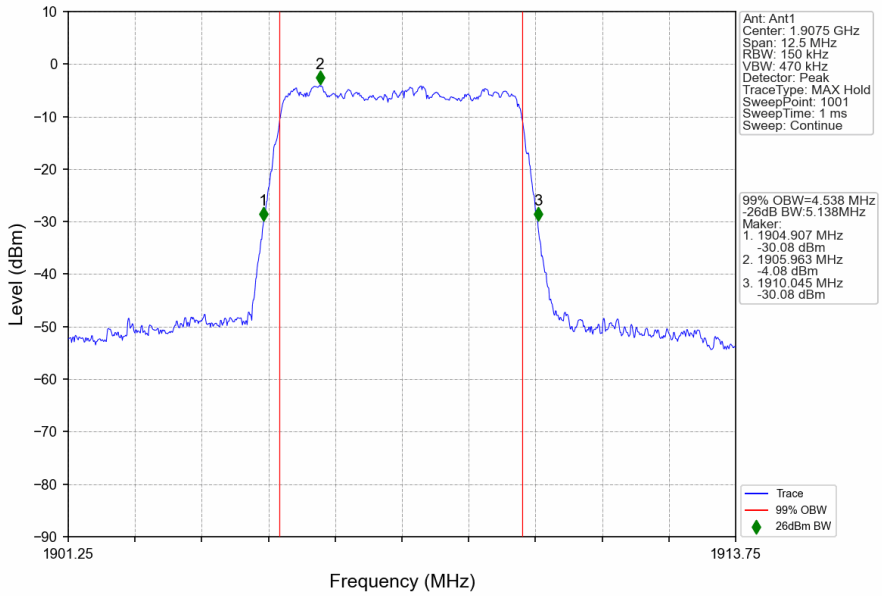
n2_15kHz_SISO_NTNV_5MHz_CP-OFDM 256 QAM_1852.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_5MHz_CP-OFDM 256 QAM_1880MHz_Outer_Full



n2_15kHz_SISO_NTNV_5MHz_CP-OFDM 256 QAM_1907.5MHz_Outer_Full



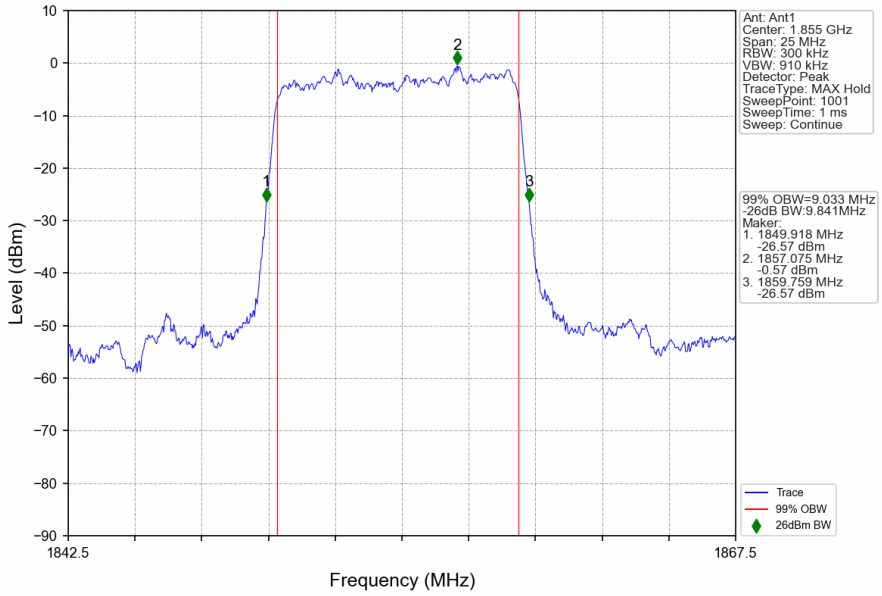
1.2 15k_SISO_10MHz_NTNV

1.2.1 Test Result

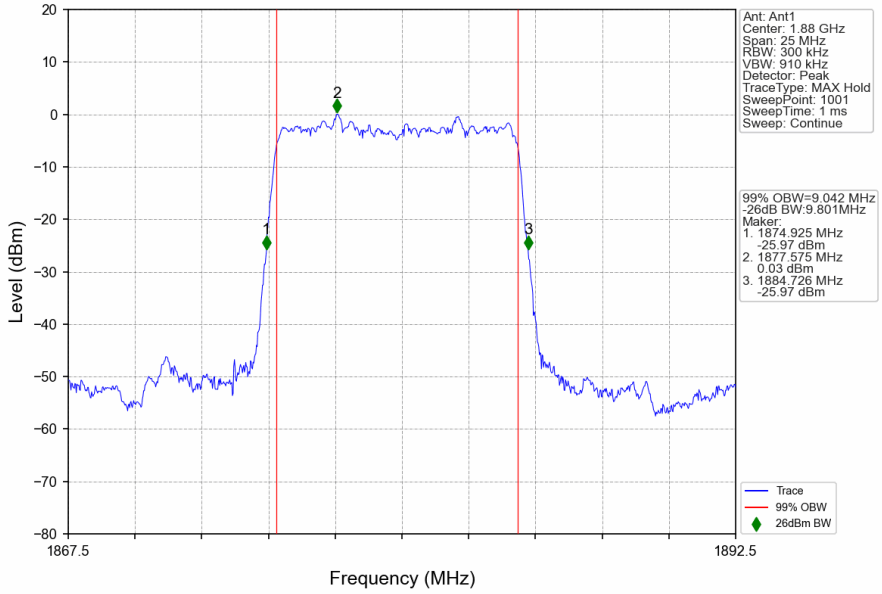
5G NR n2 SCS=15kHz SISO 10MHz NTNV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1855	Outer_Full	9.03	9.84	/	Pass
	1880	Outer_Full	9.04	9.80	/	Pass
	1905	Outer_Full	9.05	9.88	/	Pass
DFT-s-OFDM QPSK	1855	Outer_Full	9.06	9.86	/	Pass
	1880	Outer_Full	9.07	9.91	/	Pass
	1905	Outer_Full	9.07	9.90	/	Pass
DFT-s-OFDM 16 QAM	1855	Outer_Full	9.07	9.84	/	Pass
	1880	Outer_Full	9.07	9.85	/	Pass
	1905	Outer_Full	9.05	9.85	/	Pass
DFT-s-OFDM 64 QAM	1855	Outer_Full	9.04	9.85	/	Pass
	1880	Outer_Full	9.05	9.90	/	Pass
	1905	Outer_Full	9.04	9.81	/	Pass
DFT-s-OFDM 256 QAM	1855	Outer_Full	9.04	9.83	/	Pass
	1880	Outer_Full	9.04	9.87	/	Pass
	1905	Outer_Full	9.05	9.90	/	Pass
CP-OFDM QPSK	1855	Outer_Full	9.36	10.27	/	Pass
	1880	Outer_Full	9.37	10.26	/	Pass
	1905	Outer_Full	9.36	10.25	/	Pass
CP-OFDM 16 QAM	1855	Outer_Full	9.37	10.22	/	Pass
	1880	Outer_Full	9.39	10.22	/	Pass
	1905	Outer_Full	9.37	10.26	/	Pass
CP-OFDM 64 QAM	1855	Outer_Full	9.35	10.22	/	Pass
	1880	Outer_Full	9.36	10.16	/	Pass
	1905	Outer_Full	9.35	10.13	/	Pass
CP-OFDM 256 QAM	1855	Outer_Full	9.40	10.26	/	Pass
	1880	Outer_Full	9.43	10.27	/	Pass
	1905	Outer_Full	9.41	10.24	/	Pass

1.2.2 Test Graph

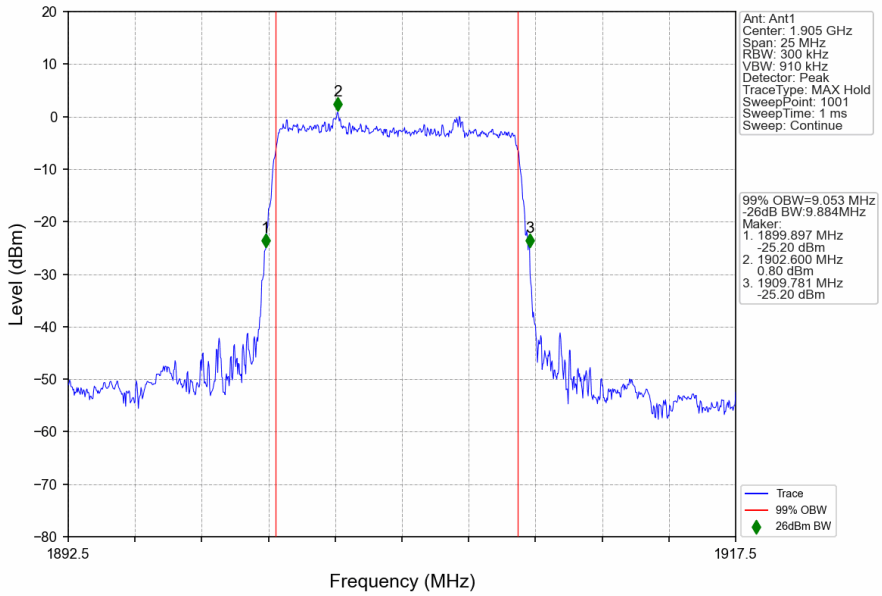
n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_1855MHz_Outer_Full



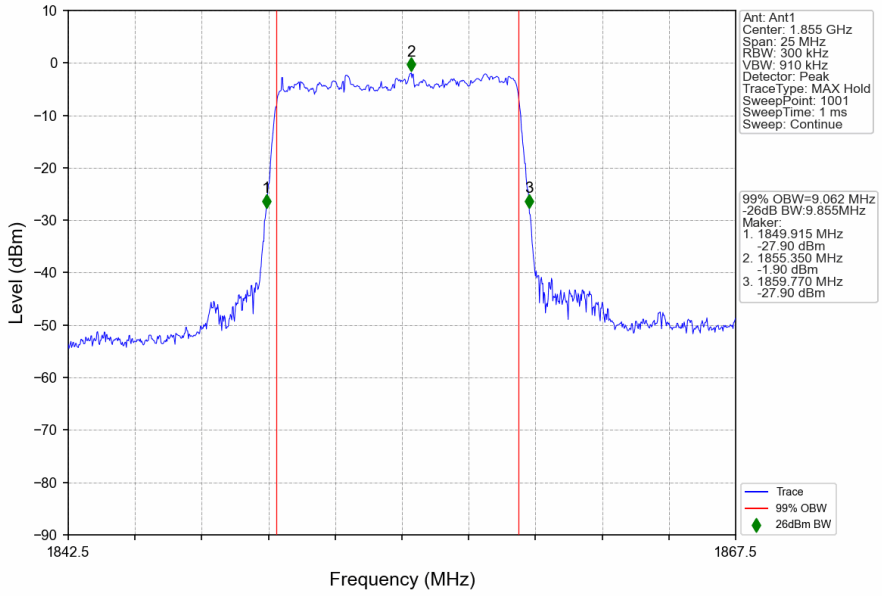
n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_1880MHz_Outer_Full



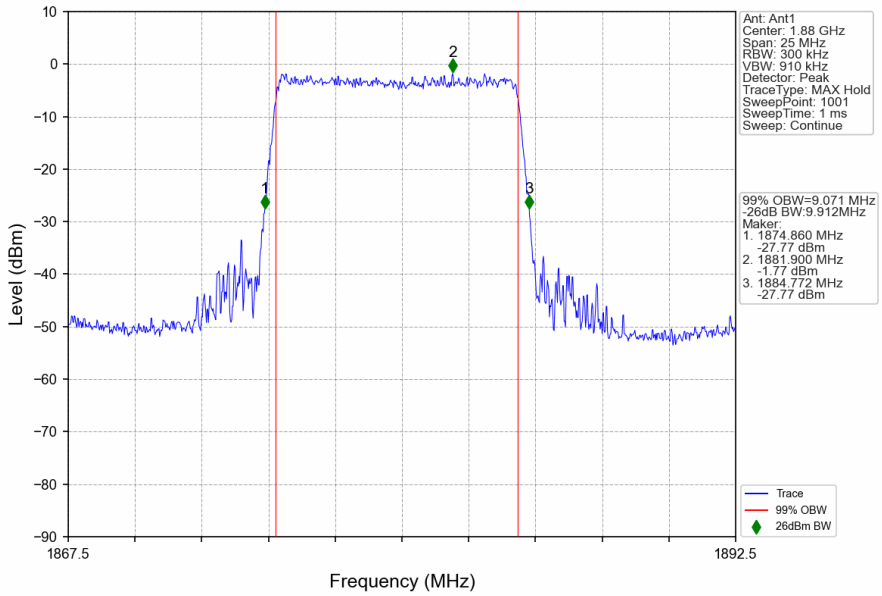
n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_1905MHz_Outer_Full



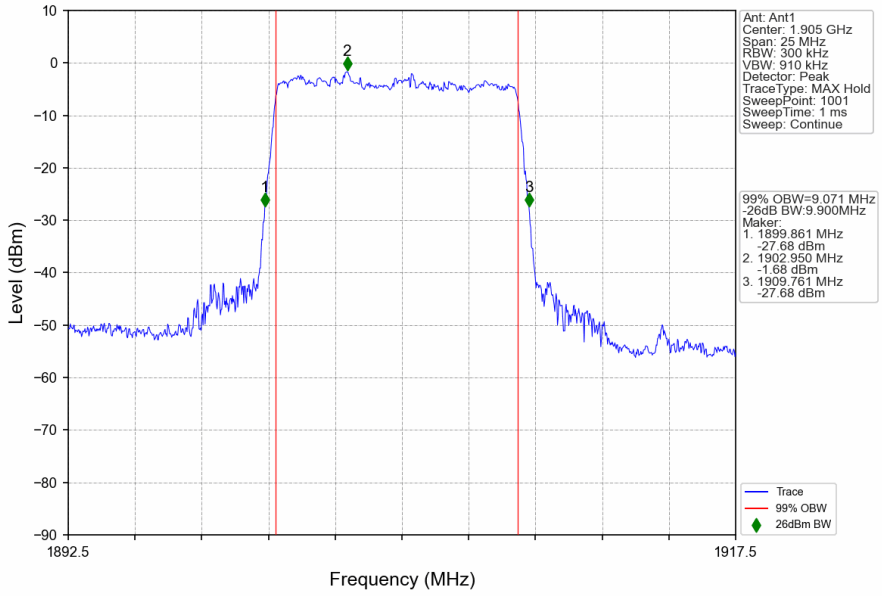
n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1855MHz_Outer_Full



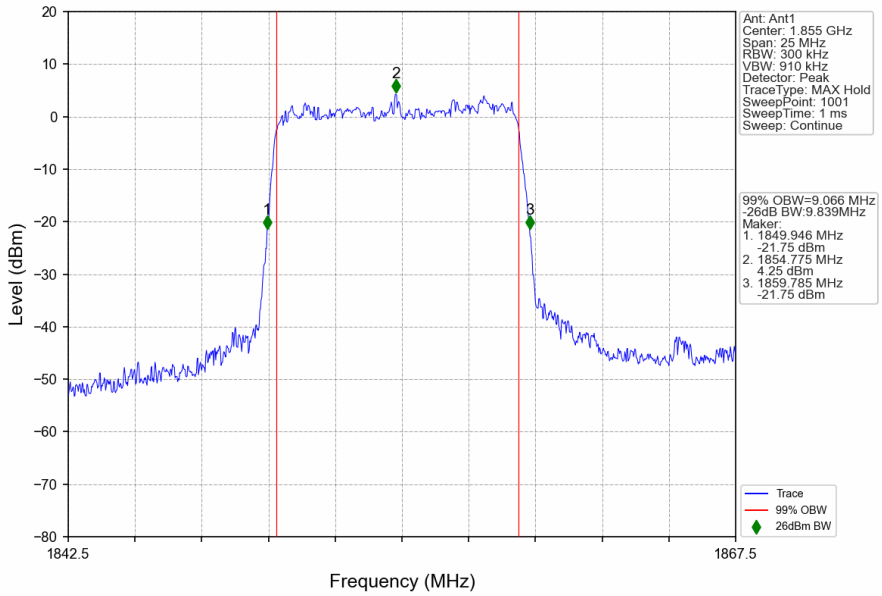
n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1880MHz_Outer_Full



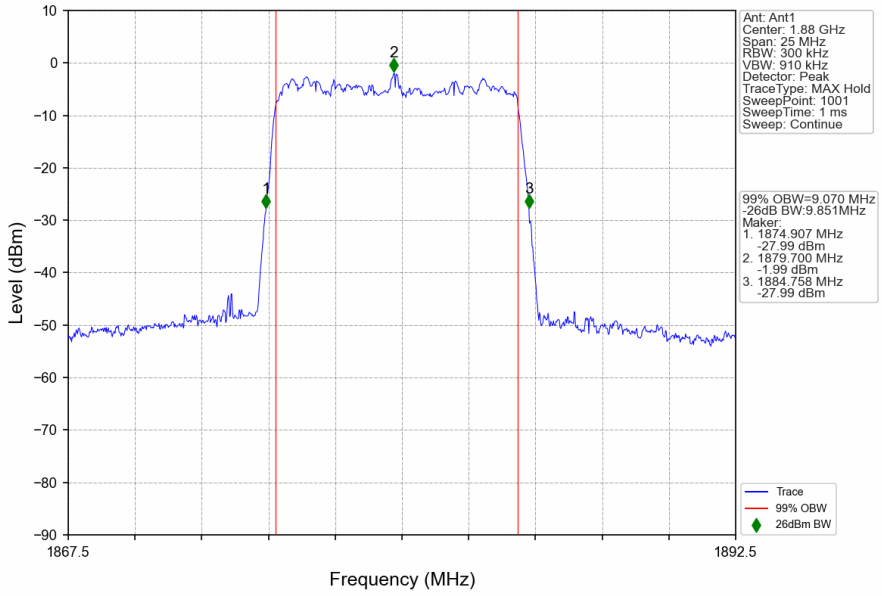
n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1905MHz_Outer_Full



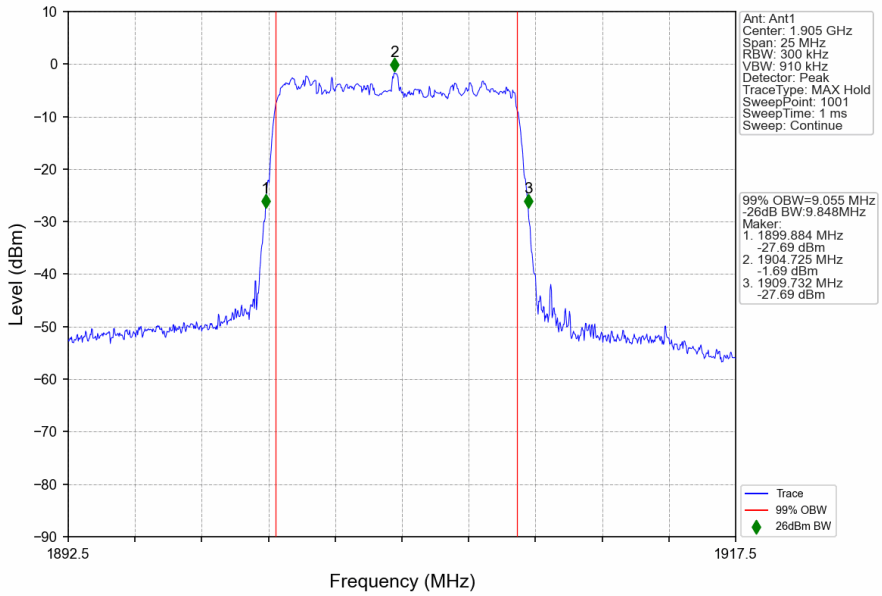
n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_1855MHz_Outer_Full



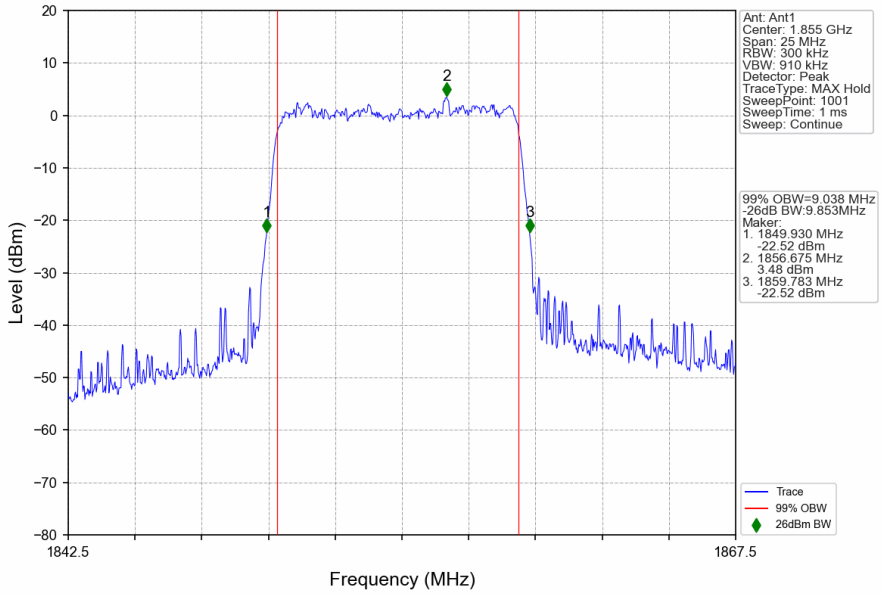
n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_1880MHz_Outer_Full



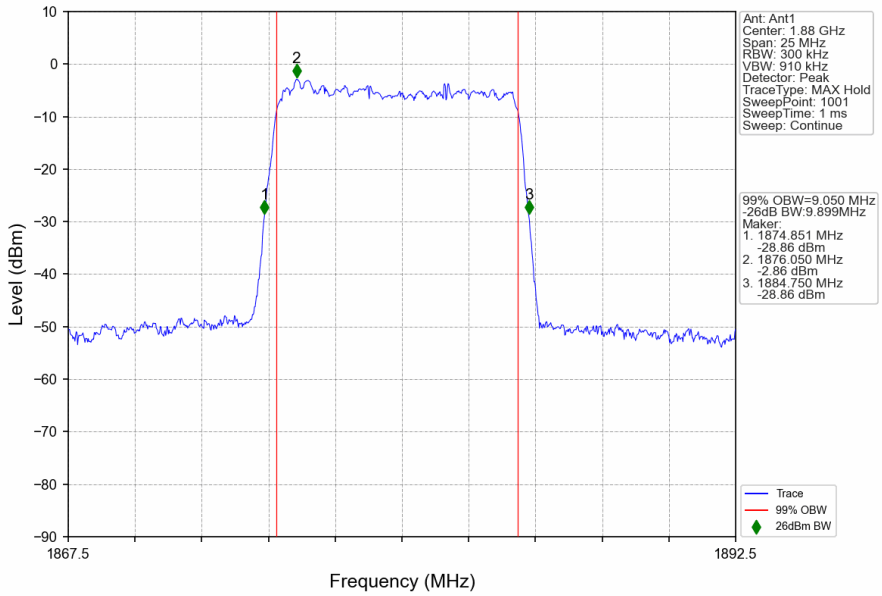
n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_1905MHz_Outer_Full



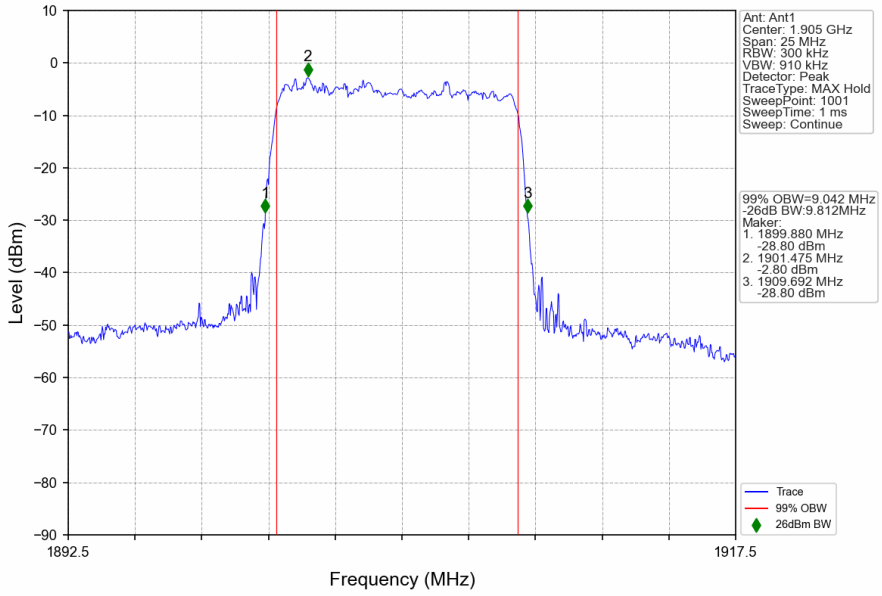
n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_1855MHz_Outer_Full



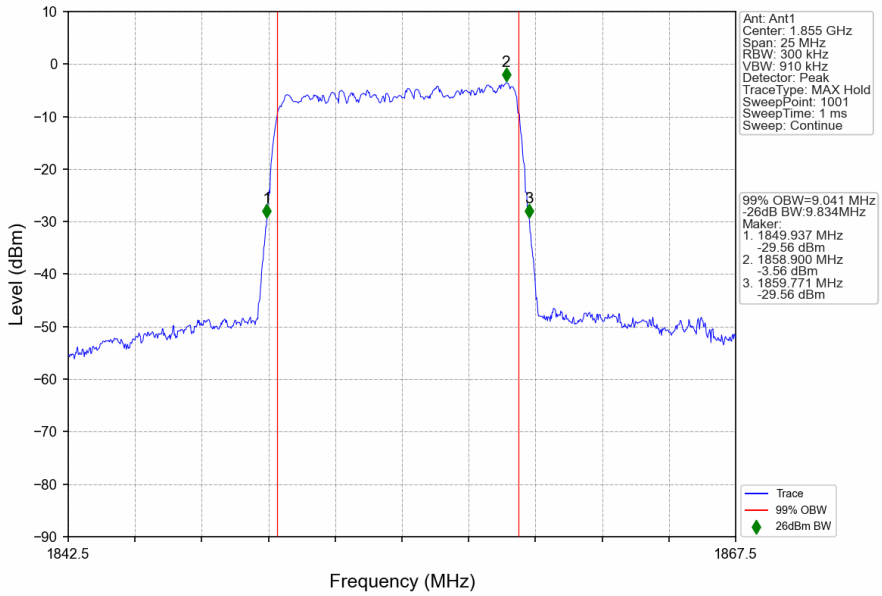
n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_1880MHz_Outer_Full



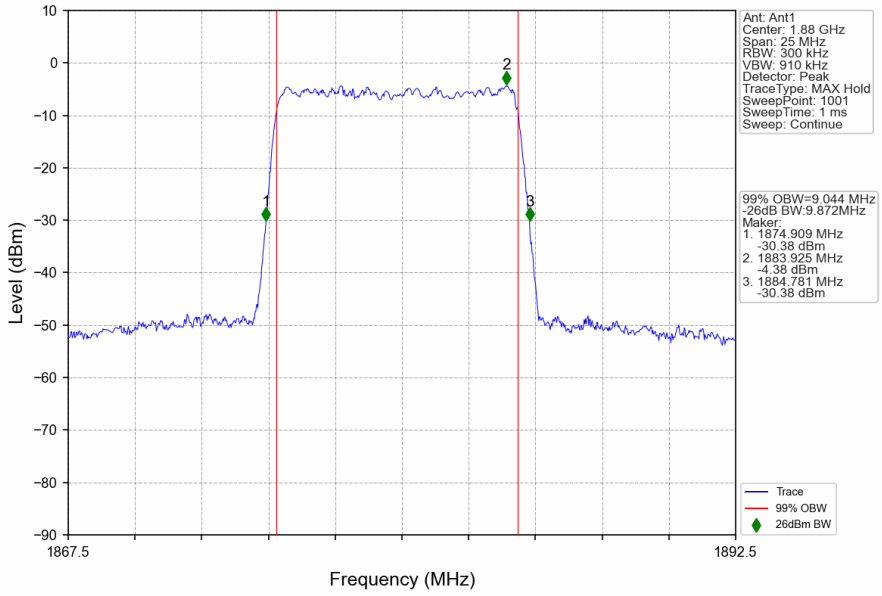
n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_1905MHz_Outer_Full



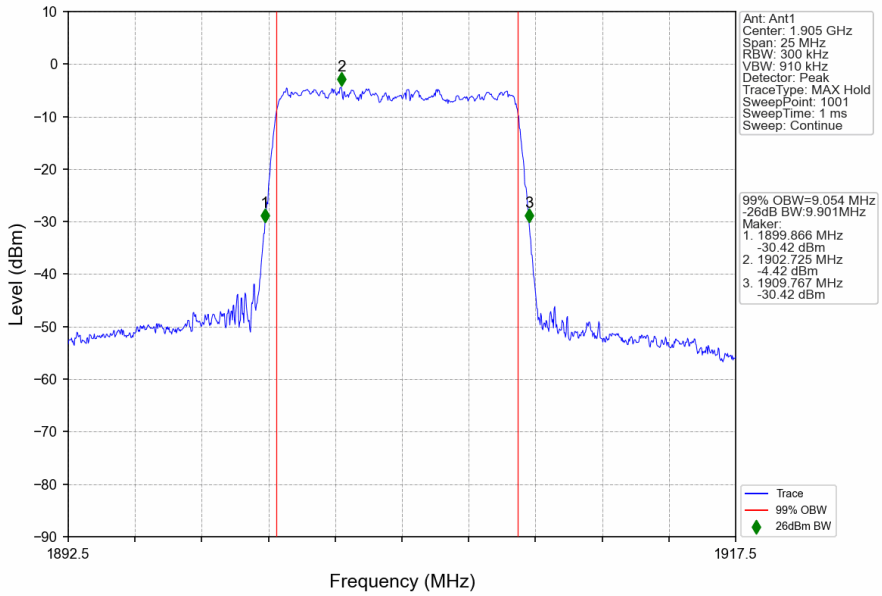
n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_1855MHz_Outer_Full



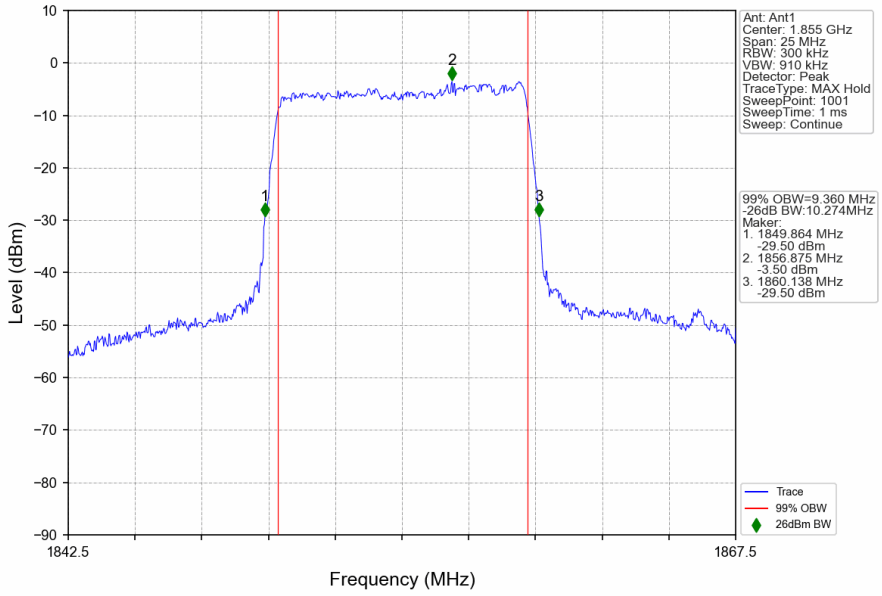
n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_1880MHz_Outer_Full



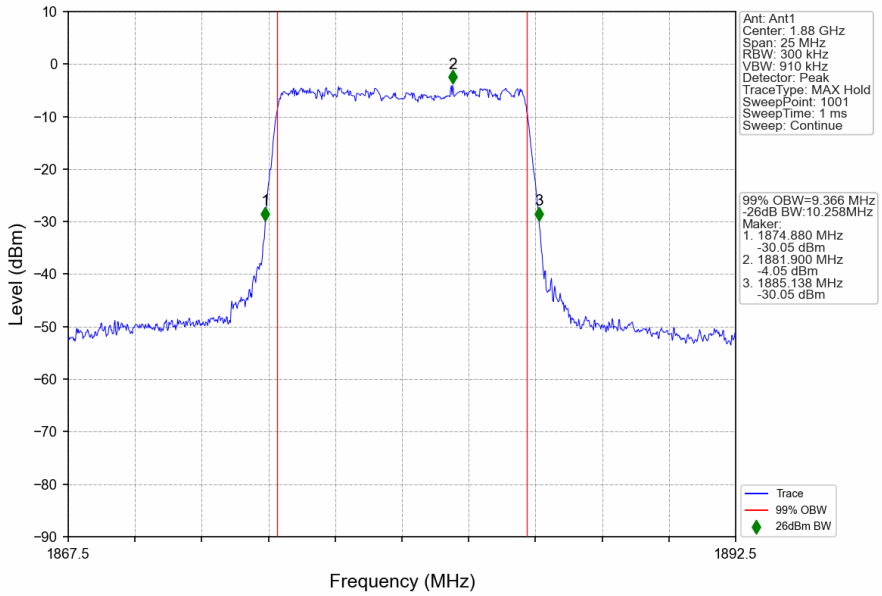
n2_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_1905MHz_Outer_Full



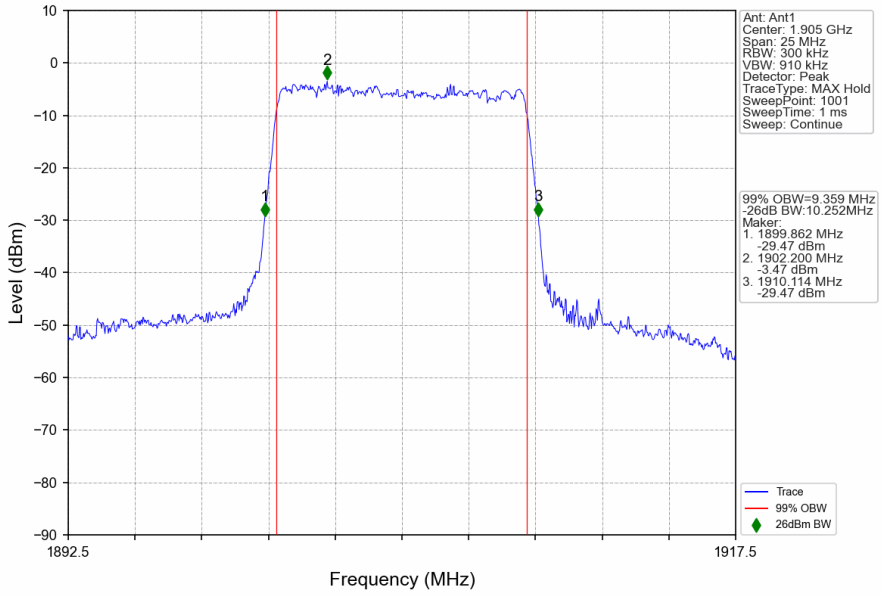
n2_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1855MHz_Outer_Full



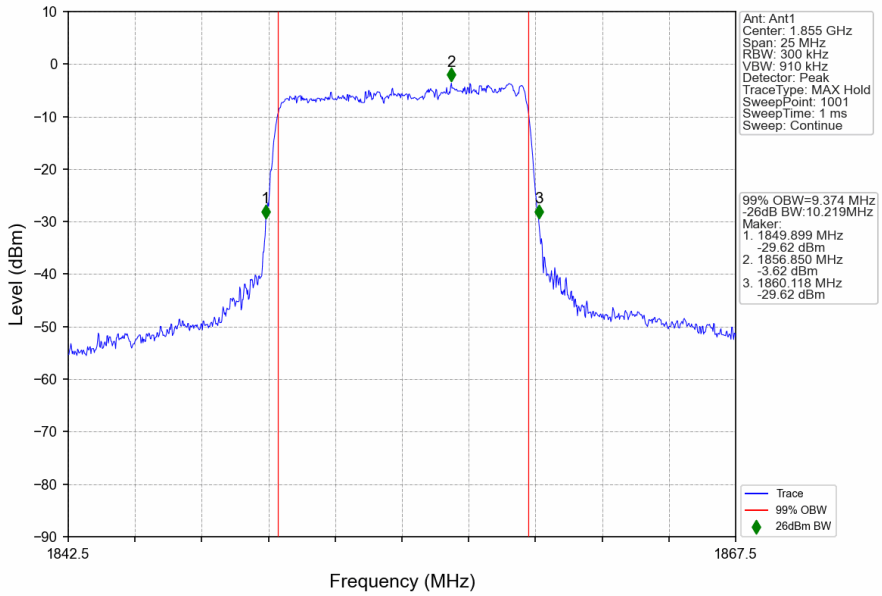
n2_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1880MHz_Outer_Full



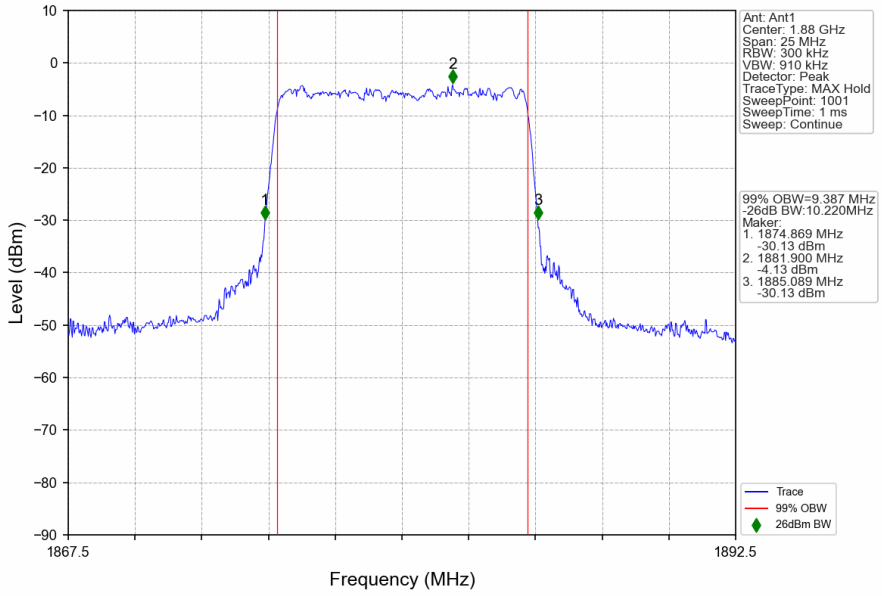
n2_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1905MHz_Outer_Full



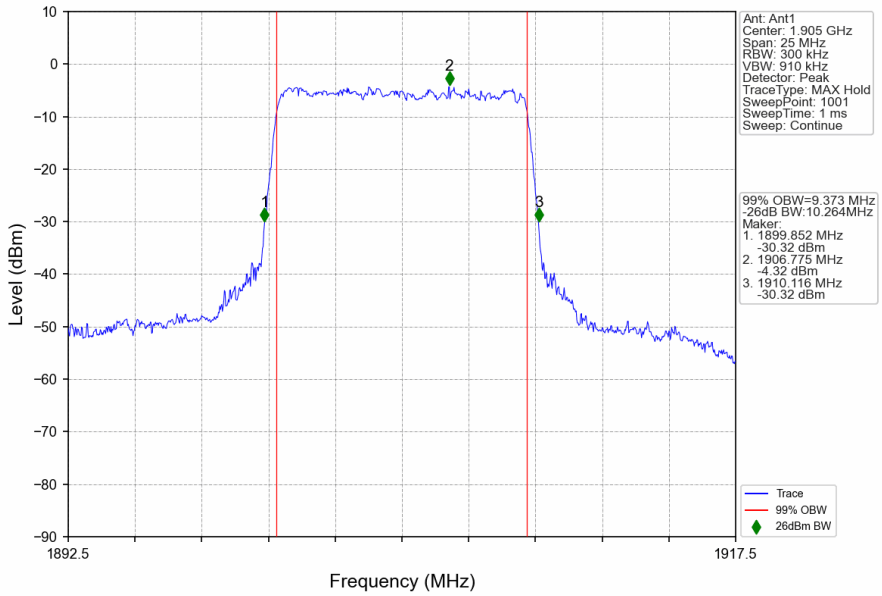
n2_15kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_1855MHz_Outer_Full



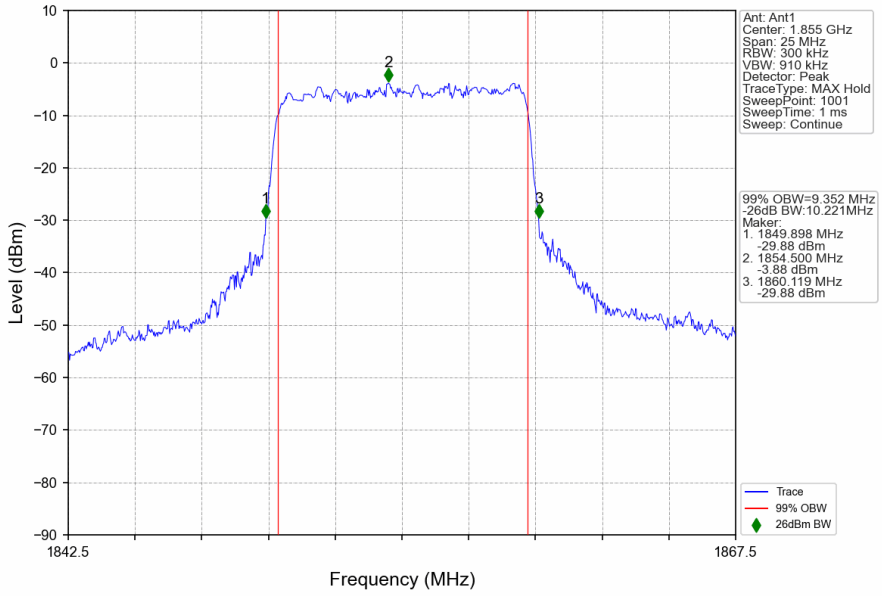
n2_15kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_1880MHz_Outer_Full



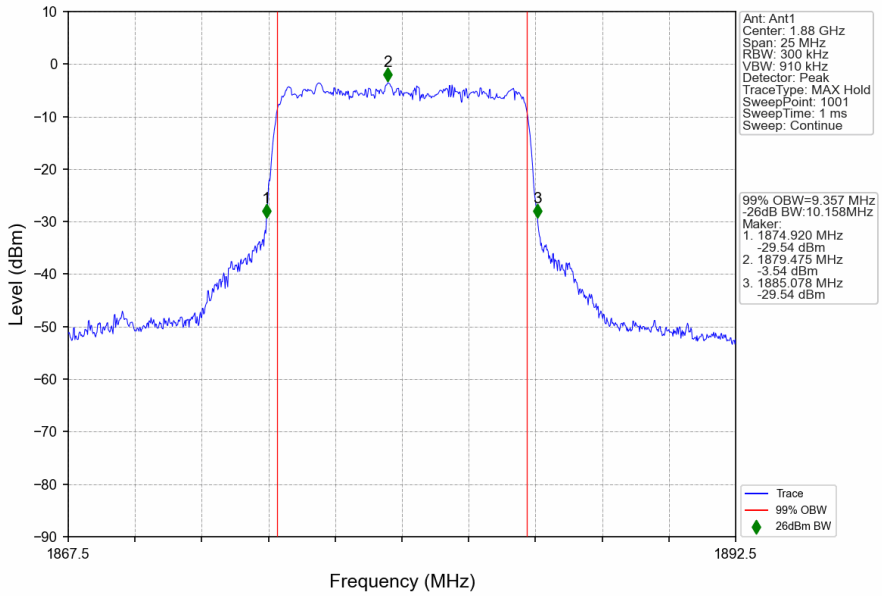
n2_15kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_1905MHz_Outer_Full



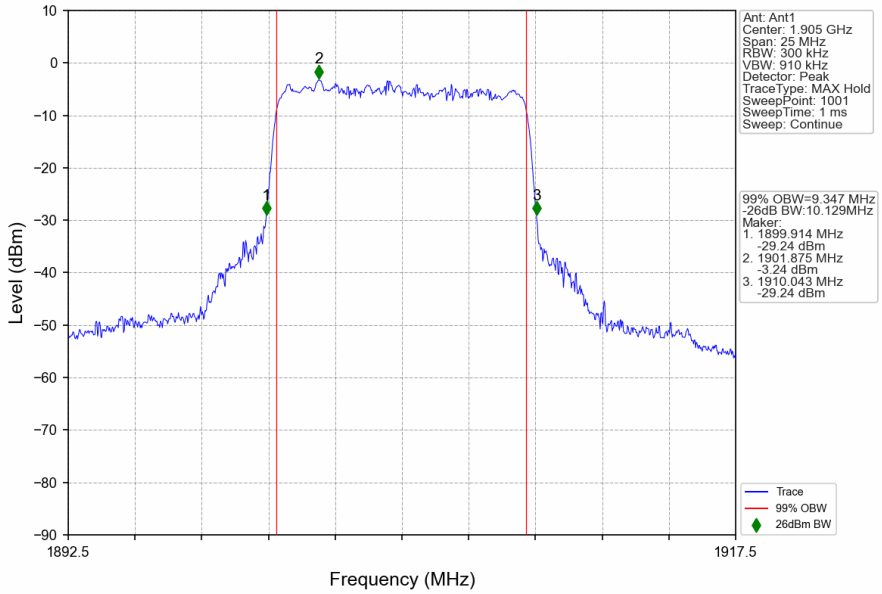
n2_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_1855MHz_Outer_Full



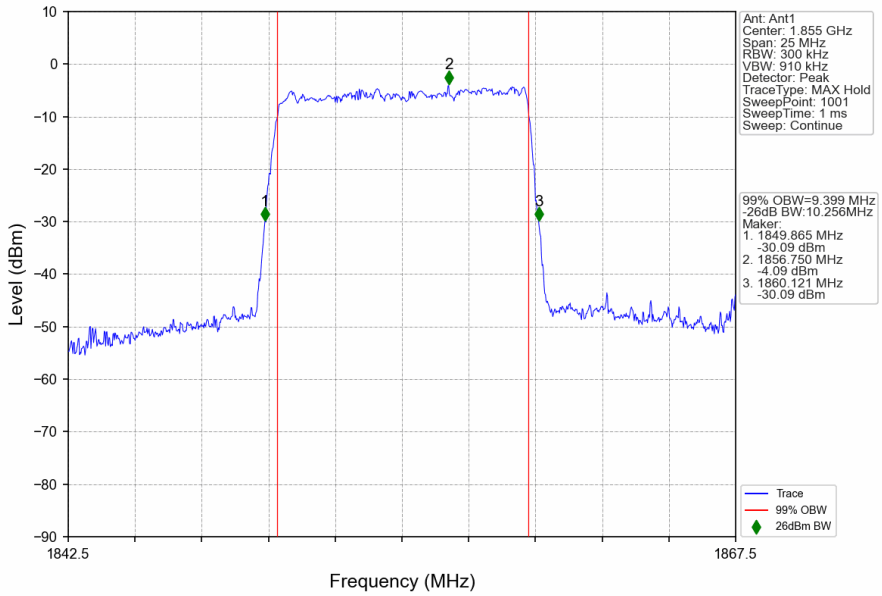
n2_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_1880MHz_Outer_Full



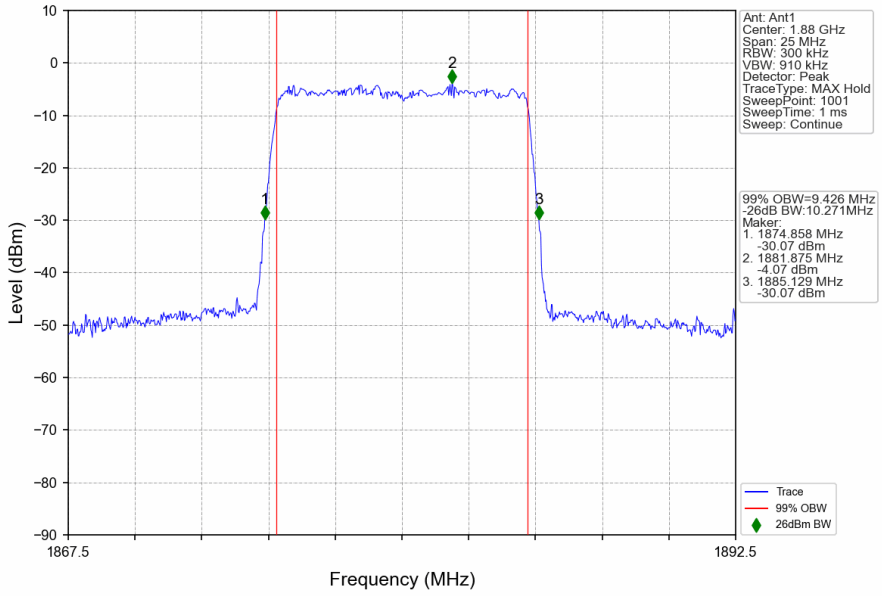
n2_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_1905MHz_Outer_Full



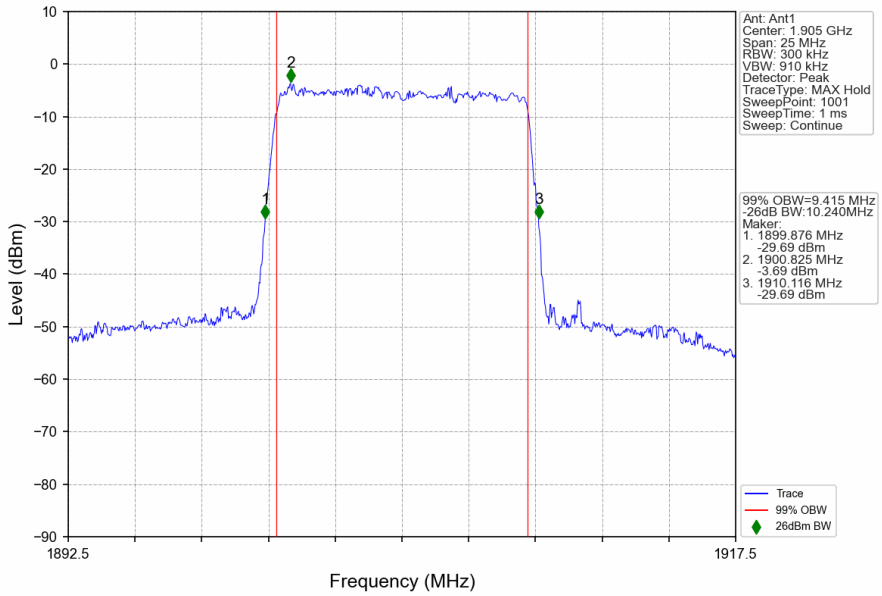
n2_15kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_1855MHz_Outer_Full



n2_15kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_1880MHz_Outer_Full



n2_15kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_1905MHz_Outer_Full



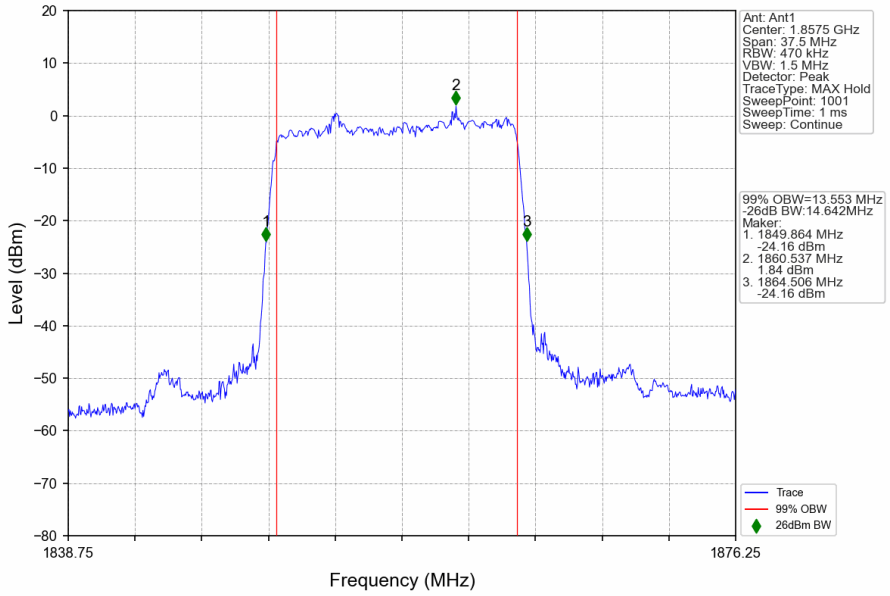
1.3 15k_SISO_15MHz_NTNV

1.3.1 Test Result

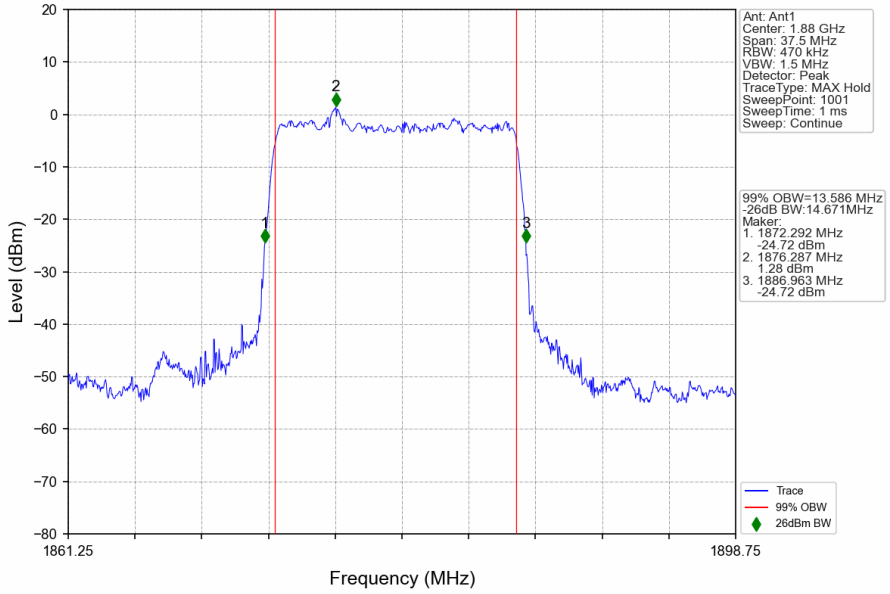
5G NR n2 SCS=15kHz SISO 15MHz NTNV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1857.5	Outer_Full	13.55	14.64	/	Pass
	1880	Outer_Full	13.59	14.67	/	Pass
	1902.5	Outer_Full	13.56	14.62	/	Pass
DFT-s-OFDM QPSK	1857.5	Outer_Full	13.59	14.60	/	Pass
	1880	Outer_Full	13.62	14.64	/	Pass
	1902.5	Outer_Full	13.59	14.70	/	Pass
DFT-s-OFDM 16 QAM	1857.5	Outer_Full	13.64	14.66	/	Pass
	1880	Outer_Full	13.65	14.68	/	Pass
	1902.5	Outer_Full	13.63	14.64	/	Pass
DFT-s-OFDM 64 QAM	1857.5	Outer_Full	13.53	14.64	/	Pass
	1880	Outer_Full	13.57	14.66	/	Pass
	1902.5	Outer_Full	13.52	14.60	/	Pass
DFT-s-OFDM 256 QAM	1857.5	Outer_Full	13.55	14.69	/	Pass
	1880	Outer_Full	13.59	14.65	/	Pass
	1902.5	Outer_Full	13.59	14.71	/	Pass
CP-OFDM QPSK	1857.5	Outer_Full	14.21	15.32	/	Pass
	1880	Outer_Full	14.26	15.37	/	Pass
	1902.5	Outer_Full	14.23	15.37	/	Pass
CP-OFDM 16 QAM	1857.5	Outer_Full	14.22	15.32	/	Pass
	1880	Outer_Full	14.27	15.39	/	Pass
	1902.5	Outer_Full	14.24	15.34	/	Pass
CP-OFDM 64 QAM	1857.5	Outer_Full	14.29	15.43	/	Pass
	1880	Outer_Full	14.32	15.71	/	Pass
	1902.5	Outer_Full	14.29	15.64	/	Pass
CP-OFDM 256 QAM	1857.5	Outer_Full	14.22	15.37	/	Pass
	1880	Outer_Full	14.23	15.35	/	Pass
	1902.5	Outer_Full	14.22	15.40	/	Pass

1.3.2 Test Graph

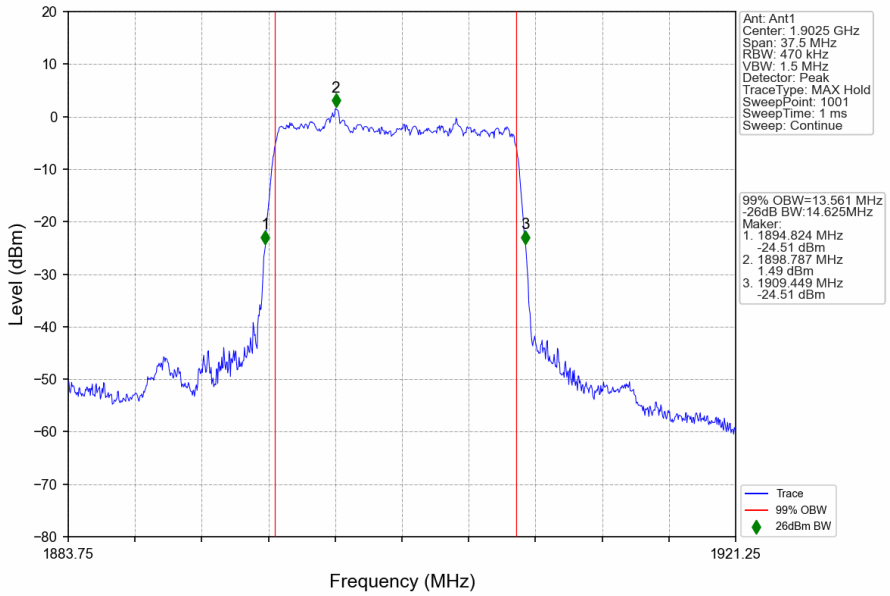
n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1857.5MHz_Outer_Full



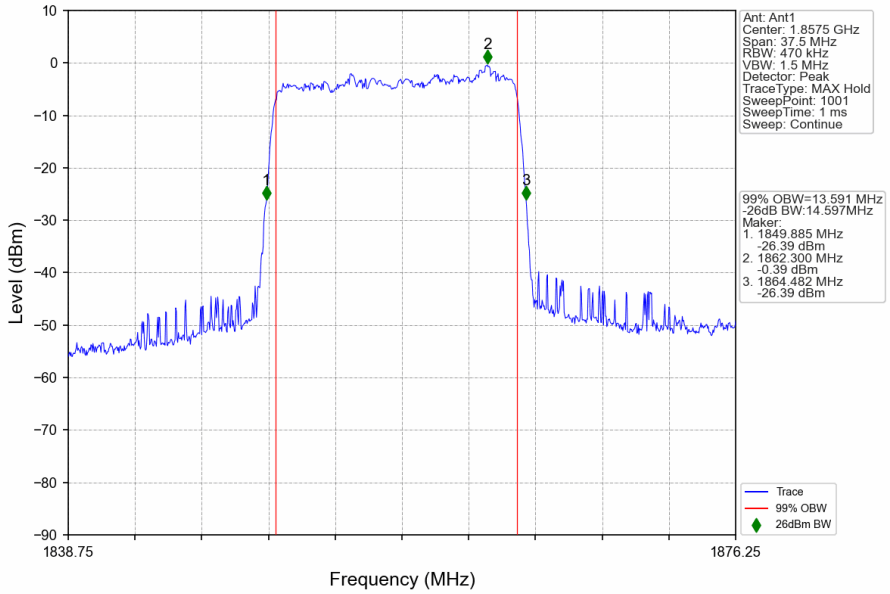
n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1880MHz_Outer_Full



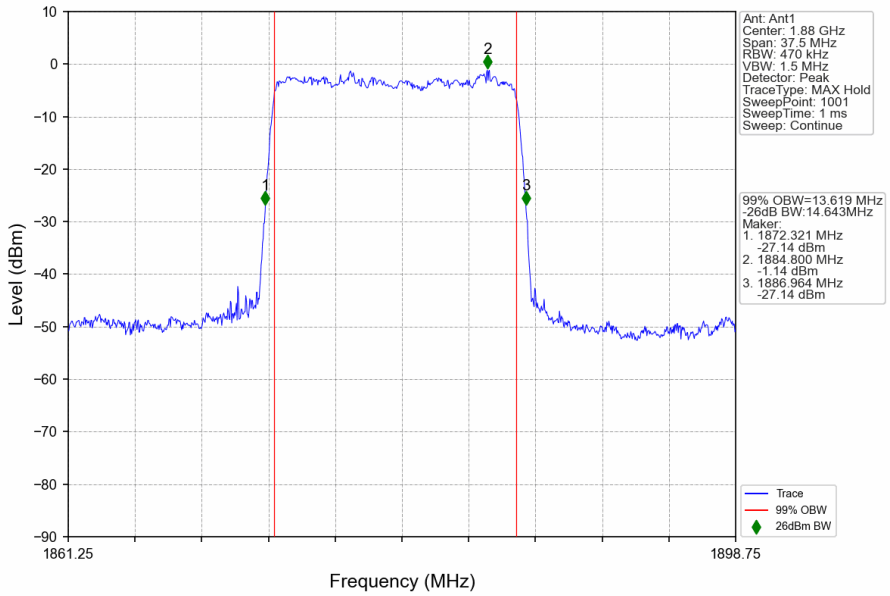
n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1902.5MHz_Outer_Full



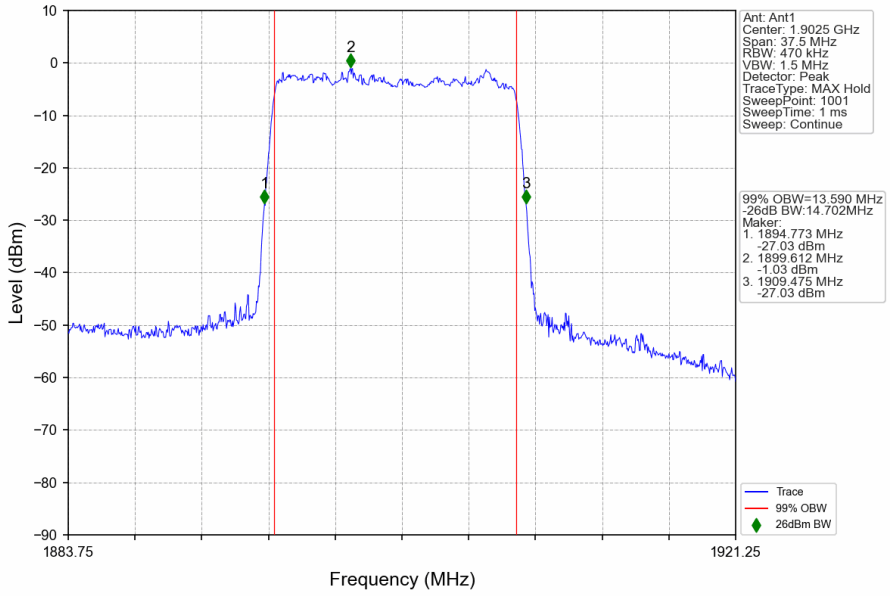
n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1857.5MHz_Outer_Full



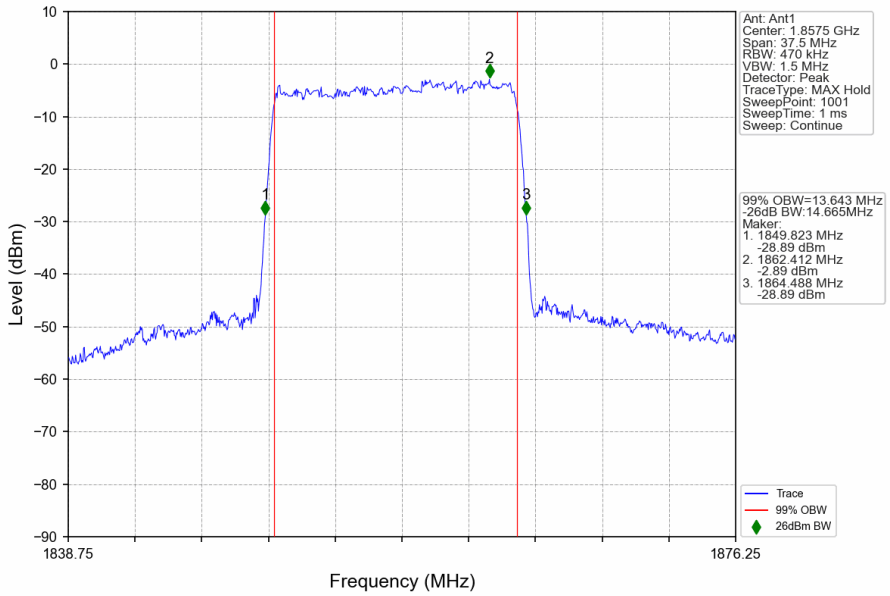
n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1880MHz_Outer_Full



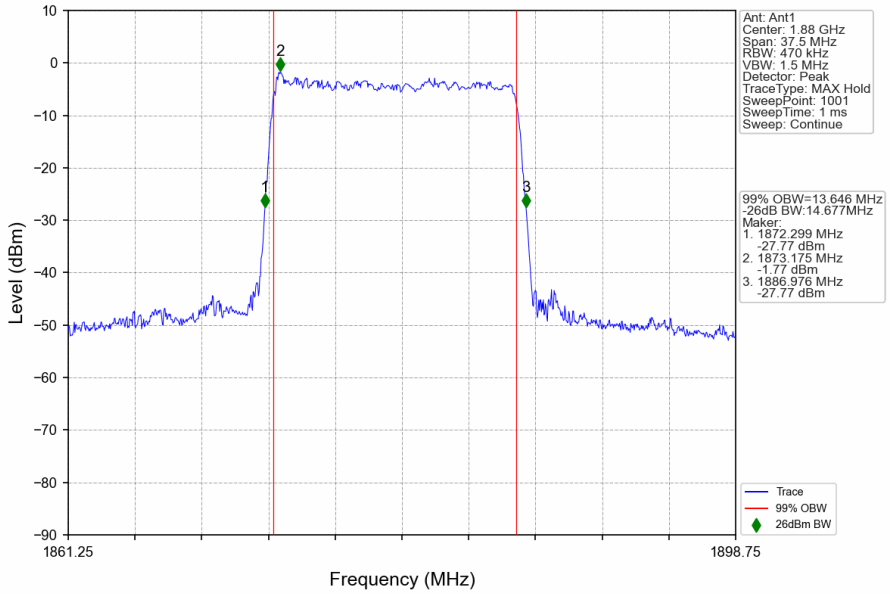
n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1902.5MHz_Outer_Full



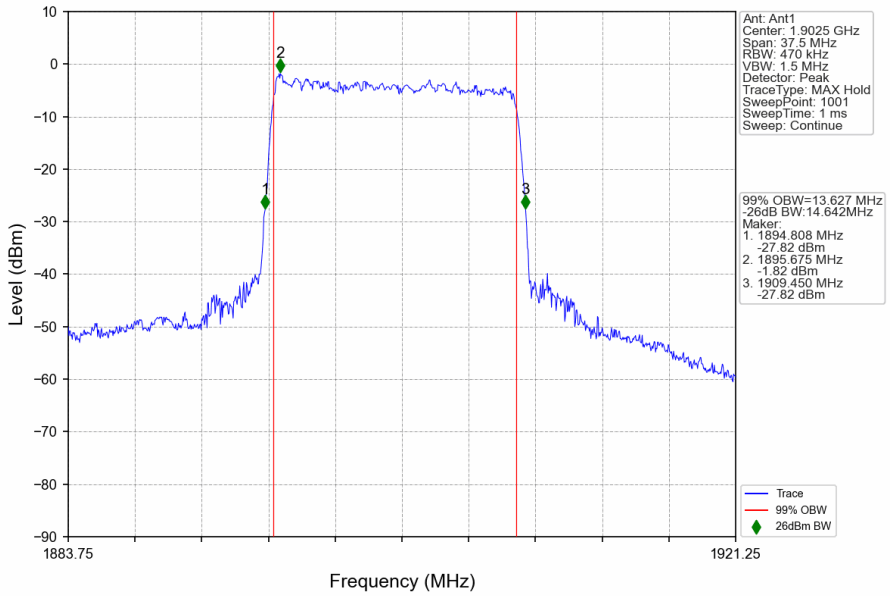
n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_1857.5MHz_Outer_Full



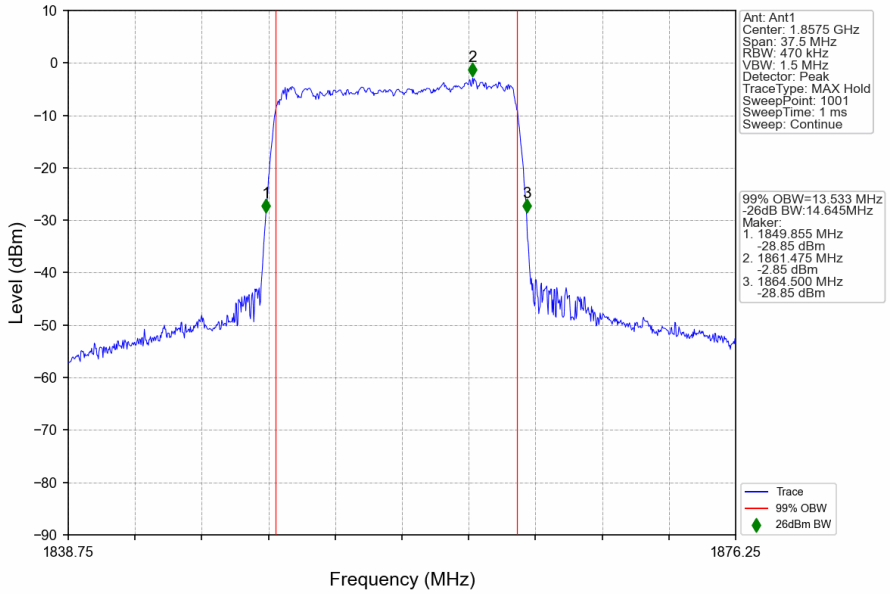
n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_1880MHz_Outer_Full



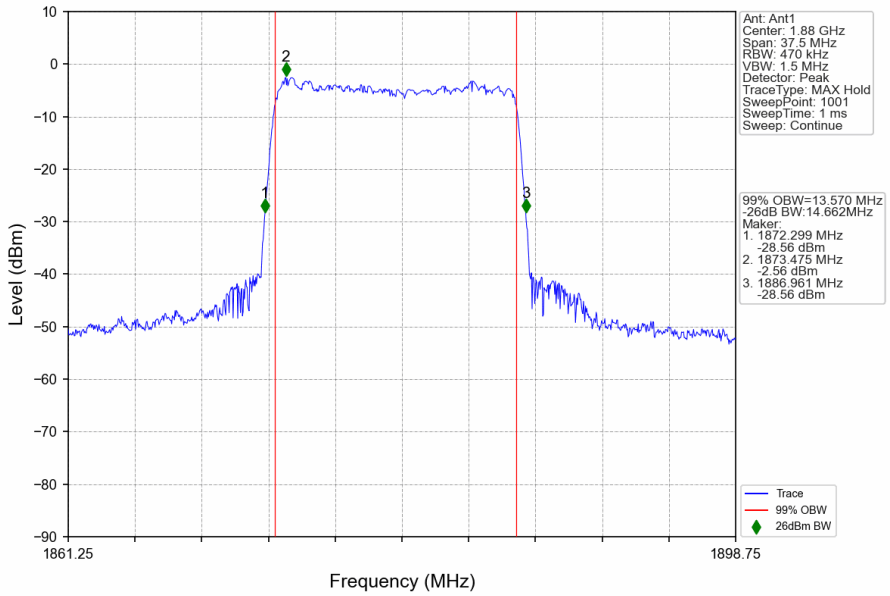
n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_1902.5MHz_Outer_Full



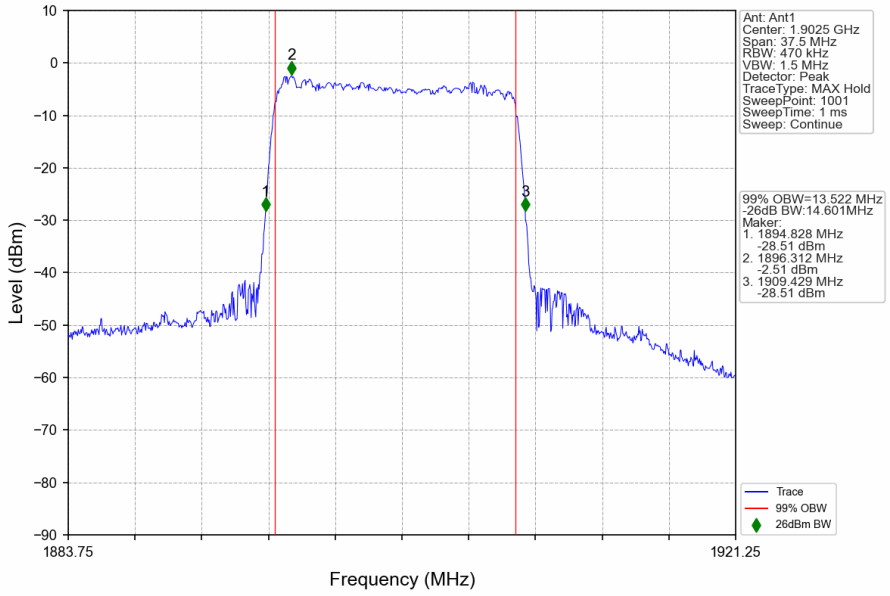
n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_1857.5MHz_Outer_Full



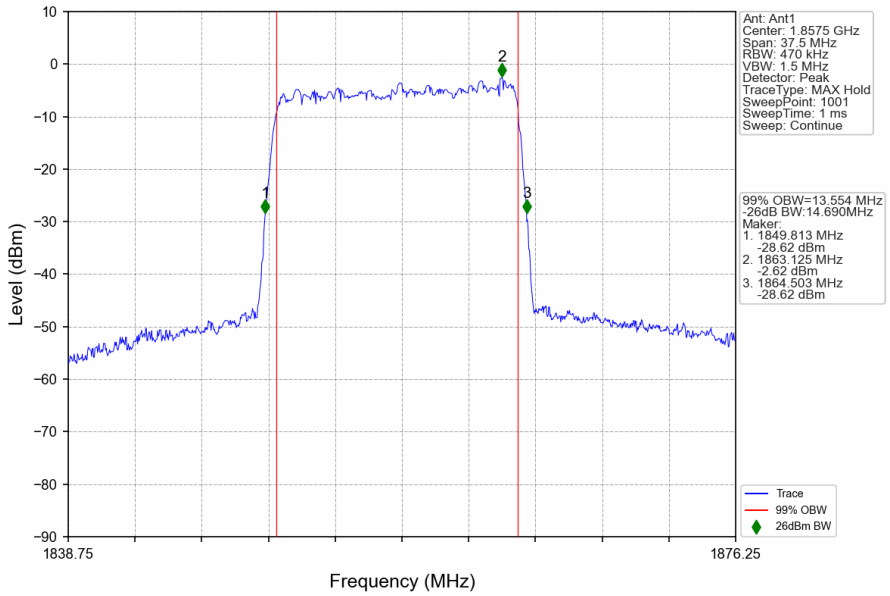
n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_1880MHz_Outer_Full



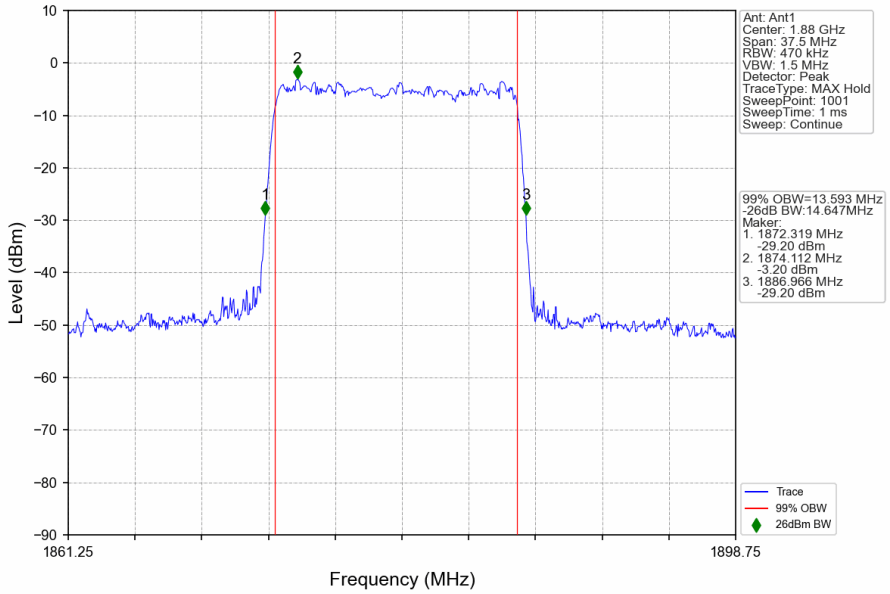
n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_1902.5MHz_Outer_Full



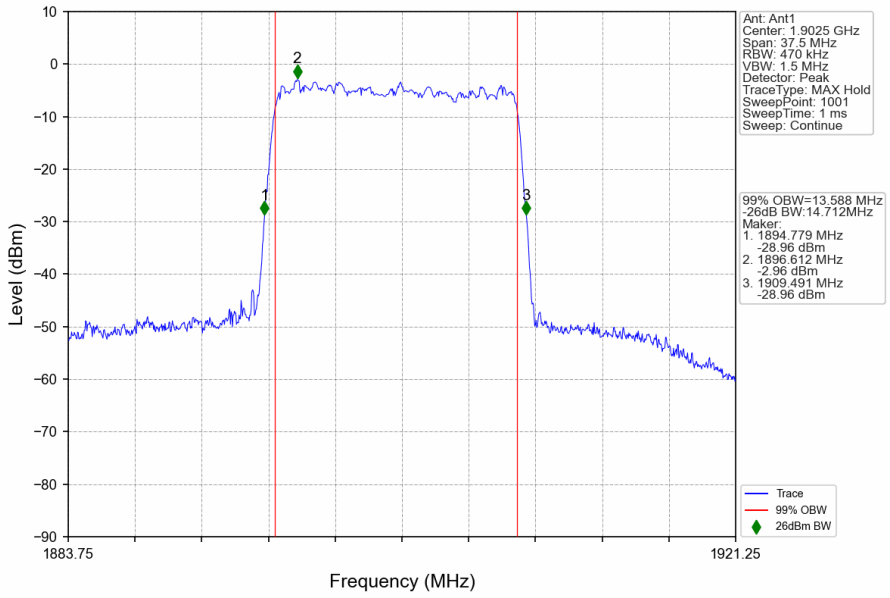
n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_1857.5MHz_Outer_Full



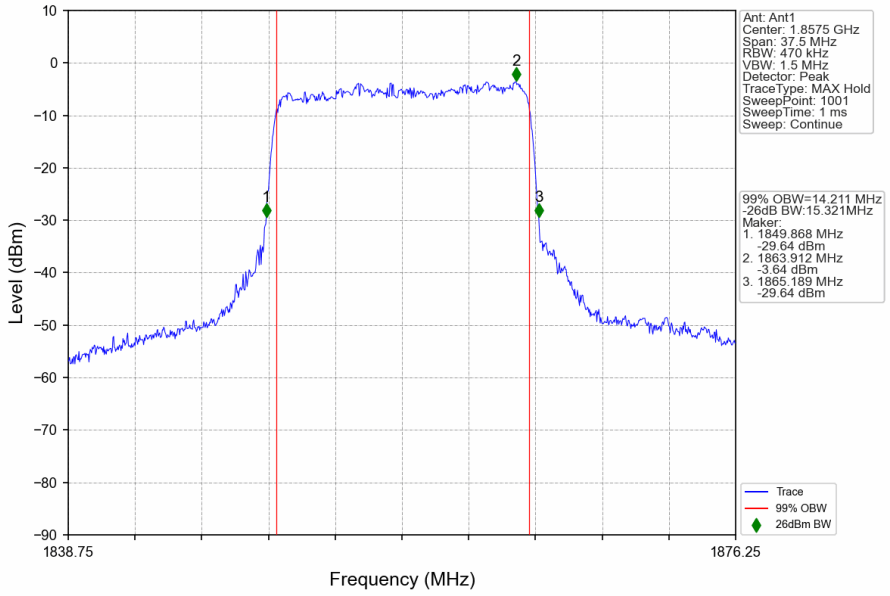
n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_1880MHz_Outer_Full



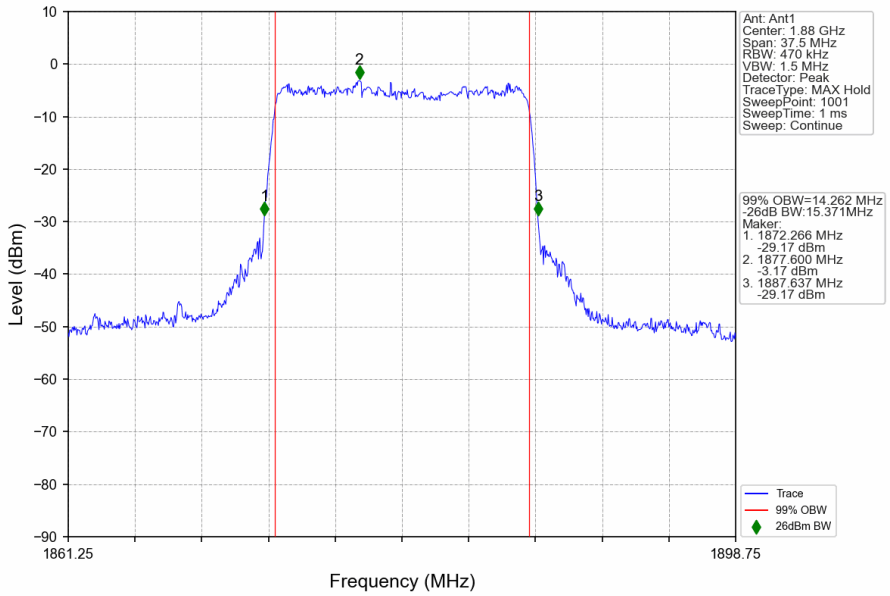
n2_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_1902.5MHz_Outer_Full



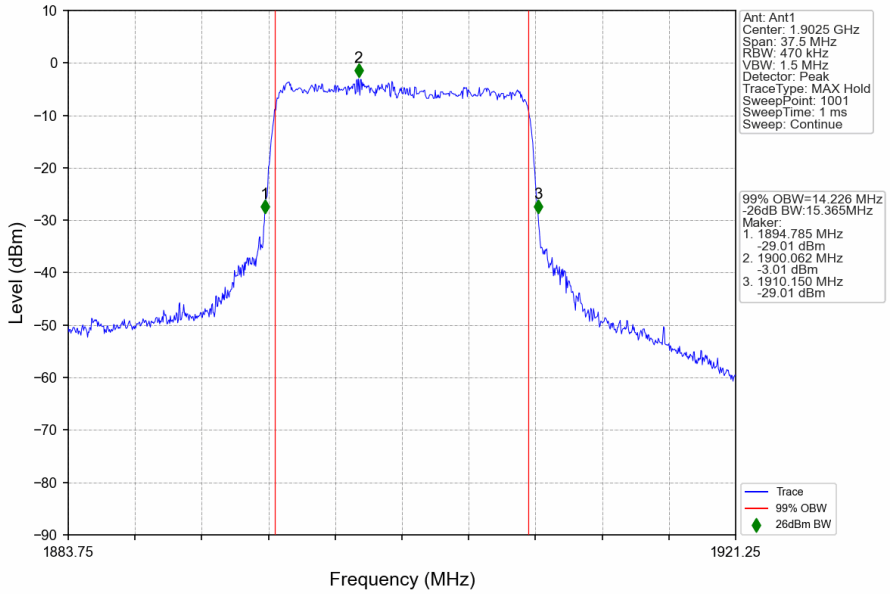
n2_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1857.5MHz_Outer_Full



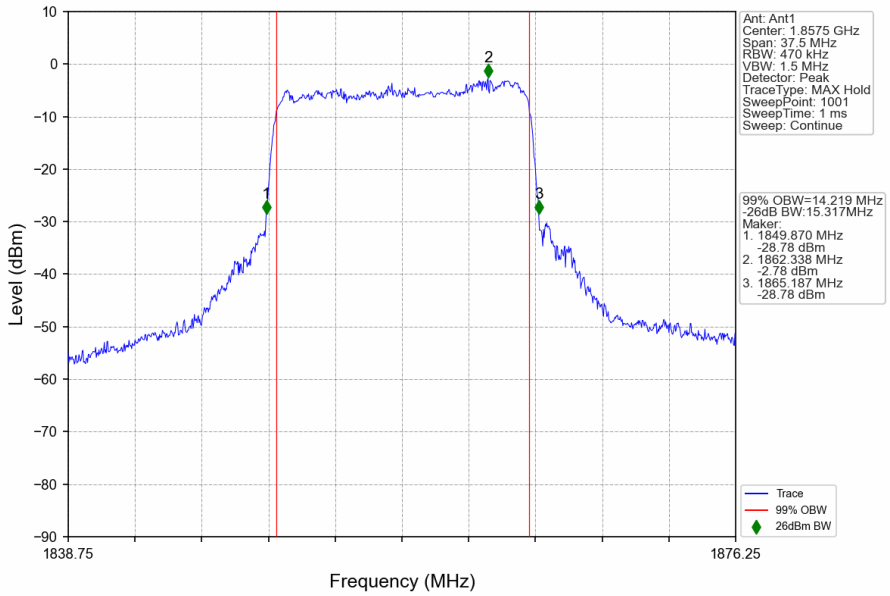
n2_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1880MHz_Outer_Full



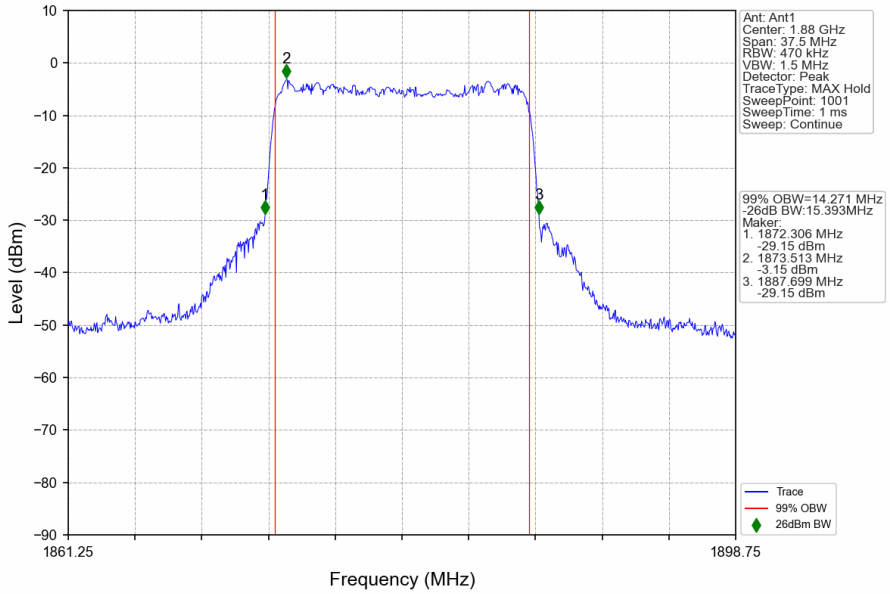
n2_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1902.5MHz_Outer_Full



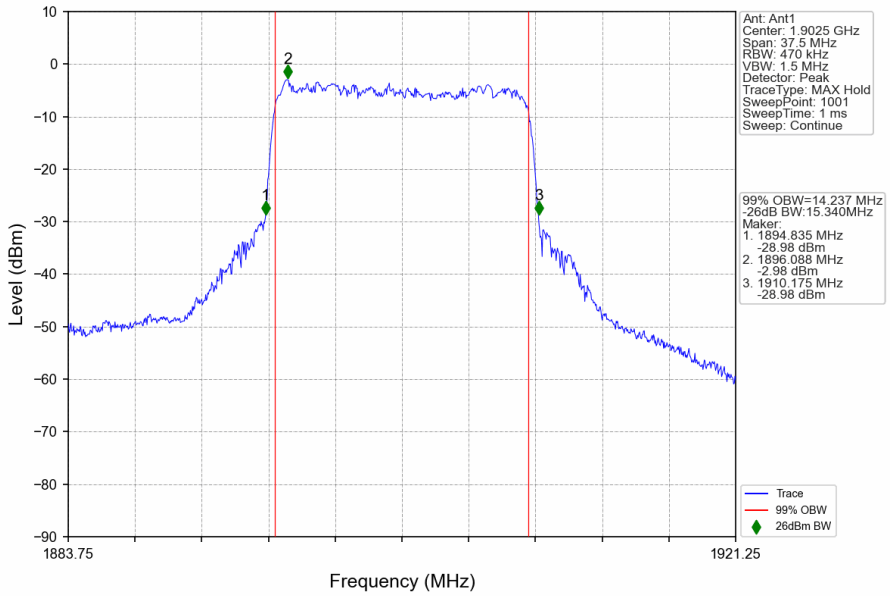
n2_15kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_1857.5MHz_Outer_Full



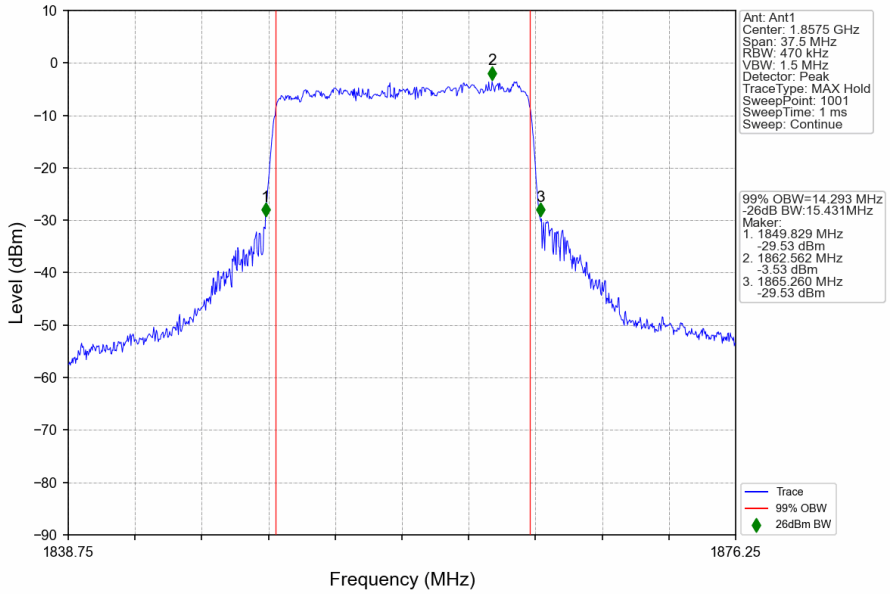
n2_15kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_1880MHz_Outer_Full



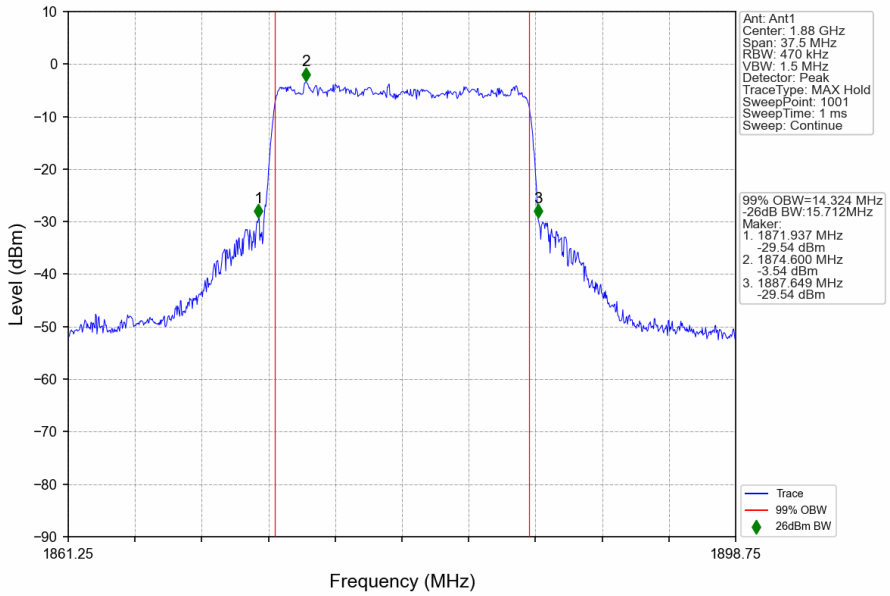
n2_15kHz_SISO_NTNV_15MHz_CP-OFDM 16 QAM_1902.5MHz_Outer_Full



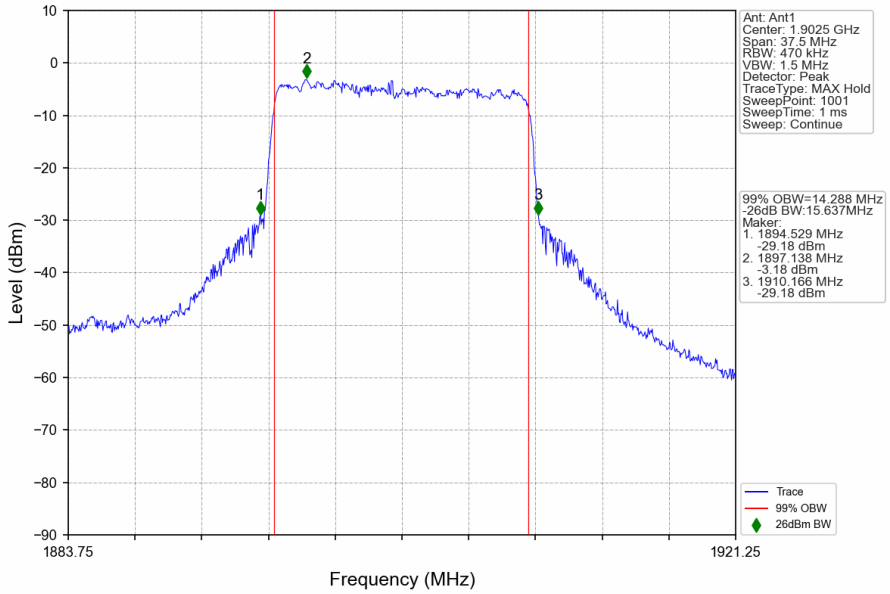
n2_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_1857.5MHz_Outer_Full



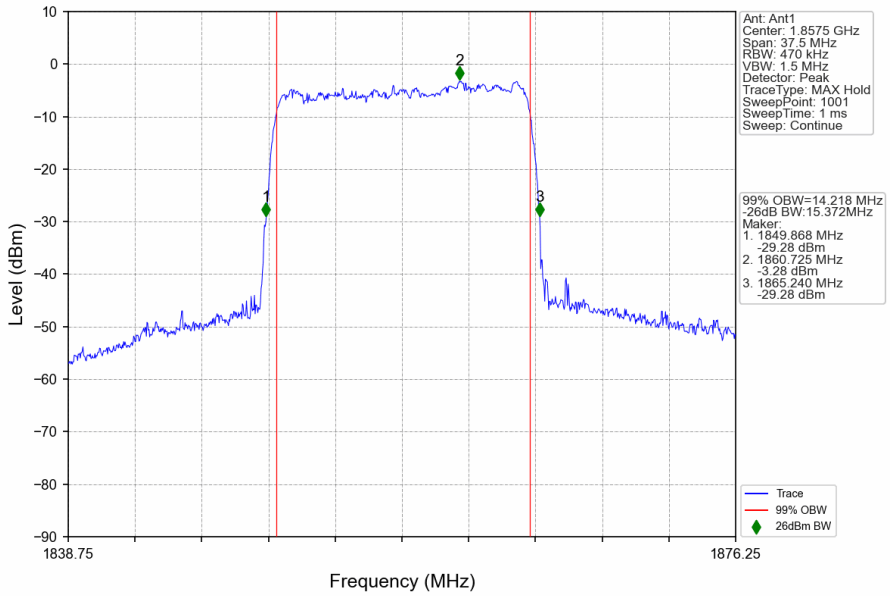
n2_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_1880MHz_Outer_Full



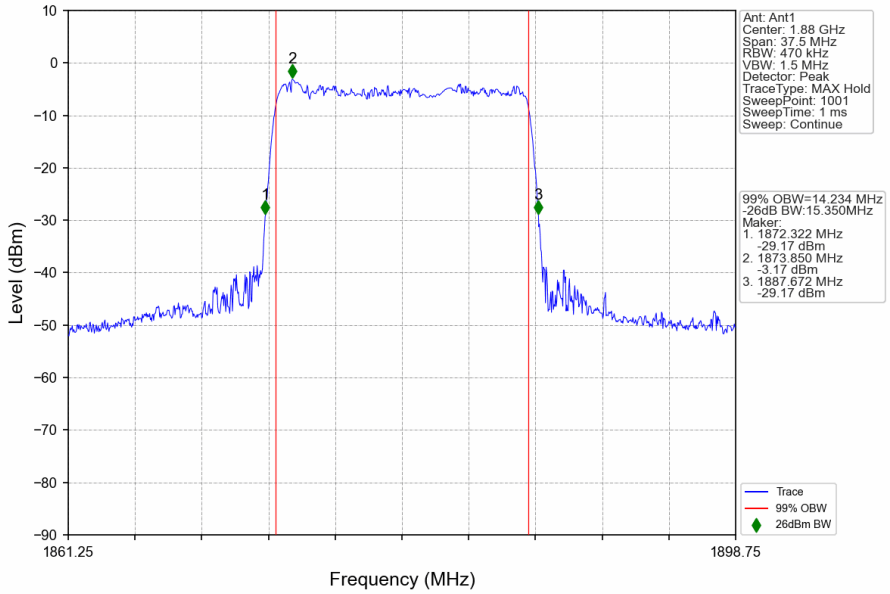
n2_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_1902.5MHz_Outer_Full



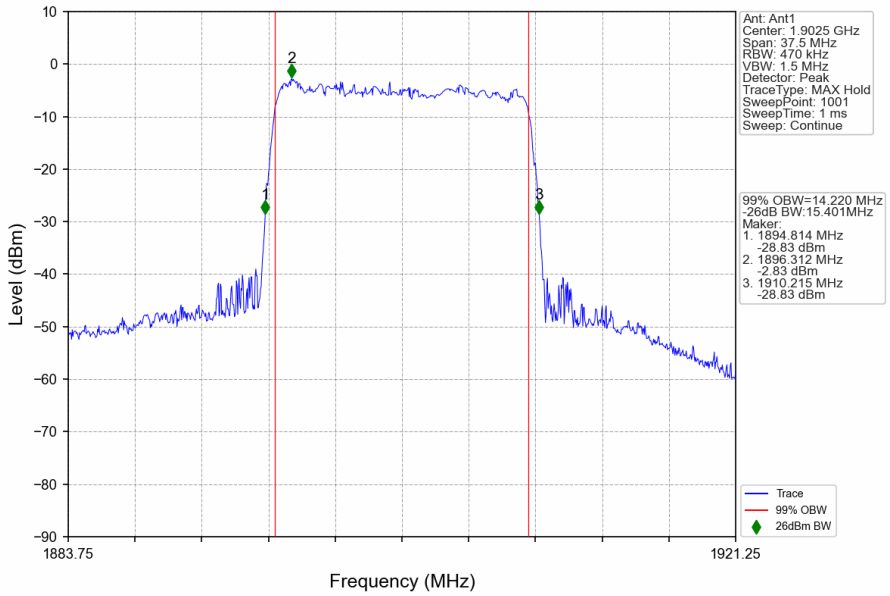
n2_15kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_1857.5MHz_Outer_Full



n2_15kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_1880MHz_Outer_Full



n2_15kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_1902.5MHz_Outer_Full



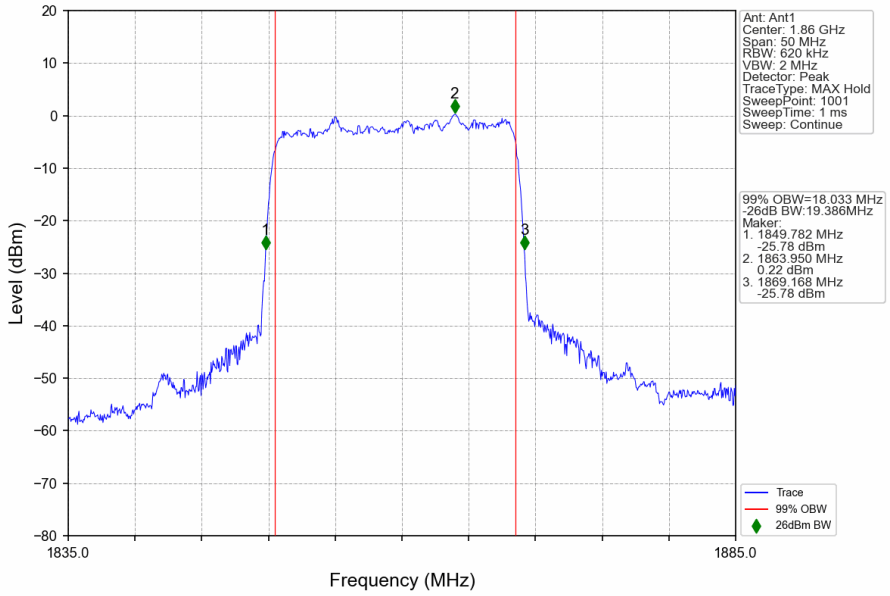
1.4 15k_SISO_20MHz_NTNV

1.4.1 Test Result

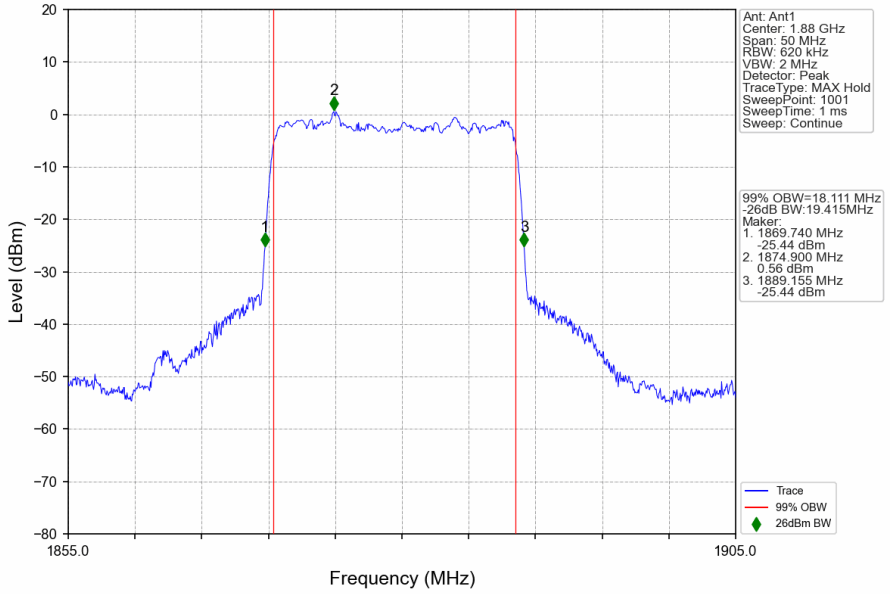
5G NR n2 SCS=15kHz SISO 20MHz NTNV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1860	Outer_Full	18.03	19.39	/	Pass
	1880	Outer_Full	18.11	19.41	/	Pass
	1900	Outer_Full	18.05	19.35	/	Pass
DFT-s-OFDM QPSK	1860	Outer_Full	18.00	19.39	/	Pass
	1880	Outer_Full	18.11	19.46	/	Pass
	1900	Outer_Full	18.01	19.39	/	Pass
DFT-s-OFDM 16 QAM	1860	Outer_Full	18.01	19.34	/	Pass
	1880	Outer_Full	18.08	19.42	/	Pass
	1900	Outer_Full	18.01	19.38	/	Pass
DFT-s-OFDM 64 QAM	1860	Outer_Full	18.01	19.46	/	Pass
	1880	Outer_Full	18.08	19.47	/	Pass
	1900	Outer_Full	18.02	19.44	/	Pass
DFT-s-OFDM 256 QAM	1860	Outer_Full	18.01	19.34	/	Pass
	1880	Outer_Full	18.08	19.39	/	Pass
	1900	Outer_Full	18.04	19.36	/	Pass
CP-OFDM QPSK	1860	Outer_Full	19.05	20.47	/	Pass
	1880	Outer_Full	19.09	22.72	/	Pass
	1900	Outer_Full	19.01	20.90	/	Pass
CP-OFDM 16 QAM	1860	Outer_Full	19.08	21.01	/	Pass
	1880	Outer_Full	19.18	22.97	/	Pass
	1900	Outer_Full	19.11	20.74	/	Pass
CP-OFDM 64 QAM	1860	Outer_Full	19.07	21.82	/	Pass
	1880	Outer_Full	19.21	23.58	/	Pass
	1900	Outer_Full	19.12	22.50	/	Pass
CP-OFDM 256 QAM	1860	Outer_Full	19.12	20.49	/	Pass
	1880	Outer_Full	19.21	20.60	/	Pass
	1900	Outer_Full	19.15	20.51	/	Pass

1.4.2 Test Graph

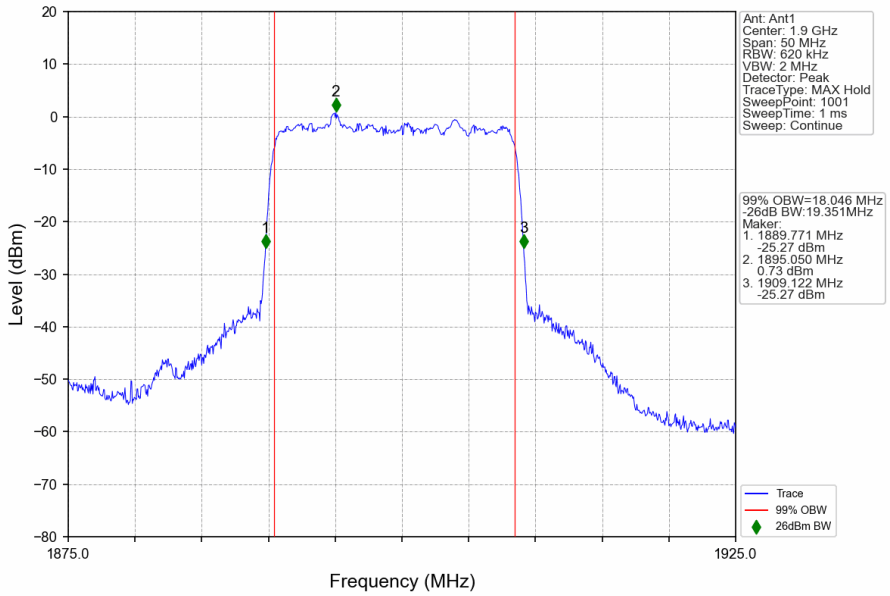
n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_1860MHz_Outer_Full



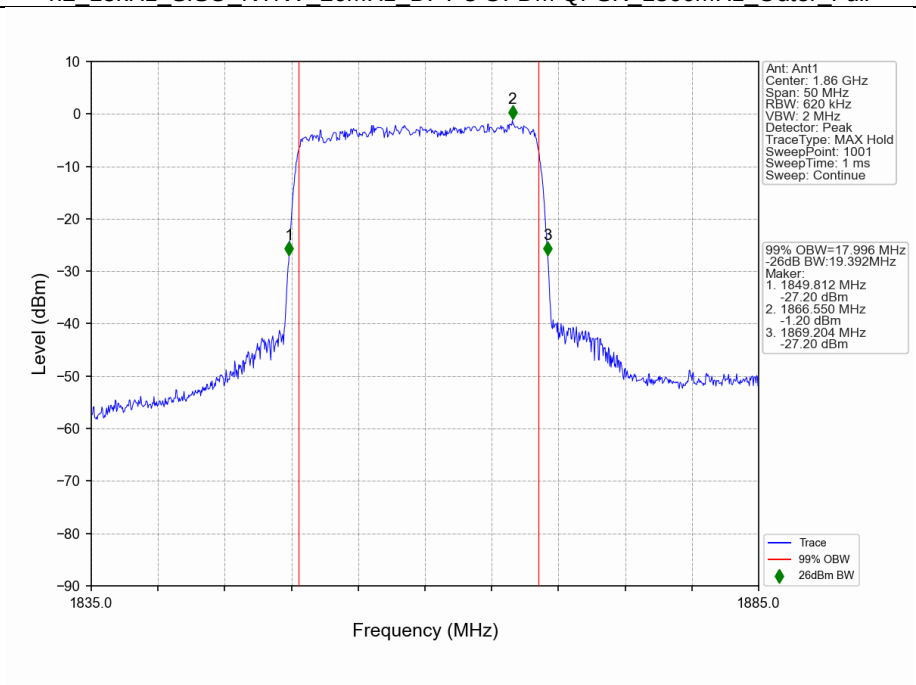
n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_1880MHz_Outer_Full



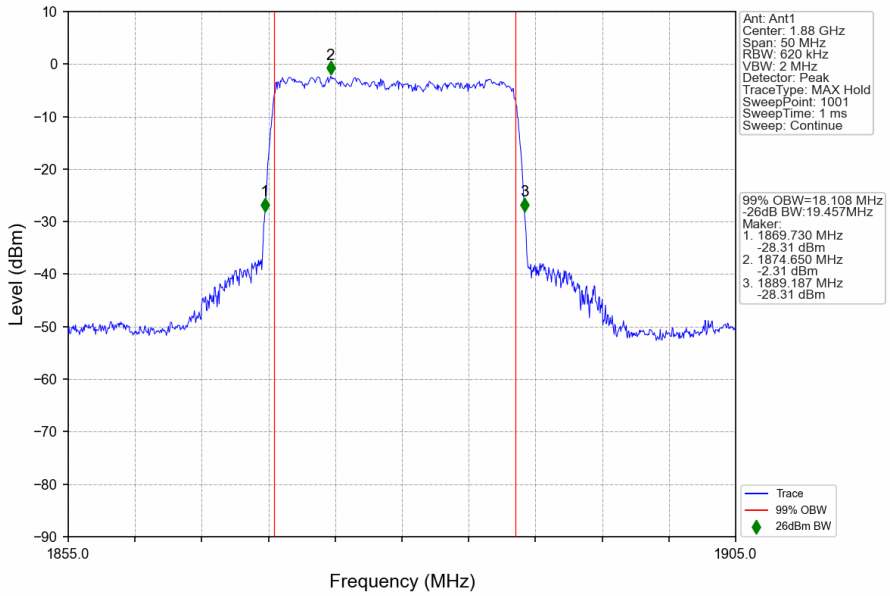
n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_1900MHz_Outer_Full



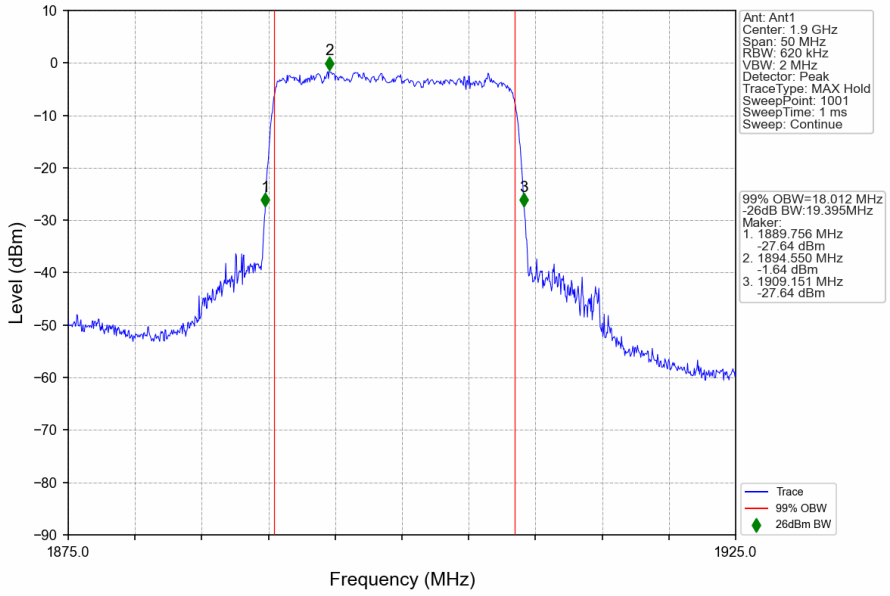
n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_1860MHz_Outer_Full



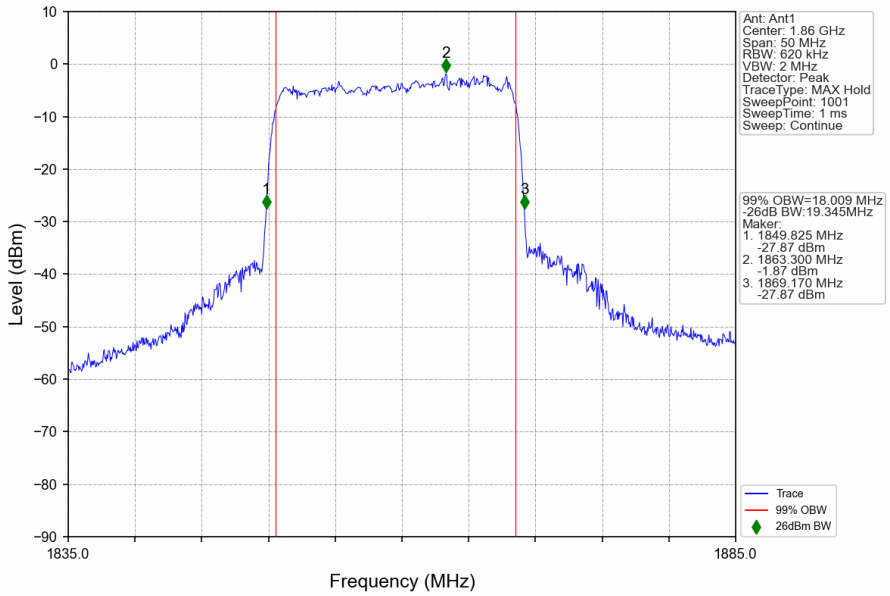
n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_1880MHz_Outer_Full



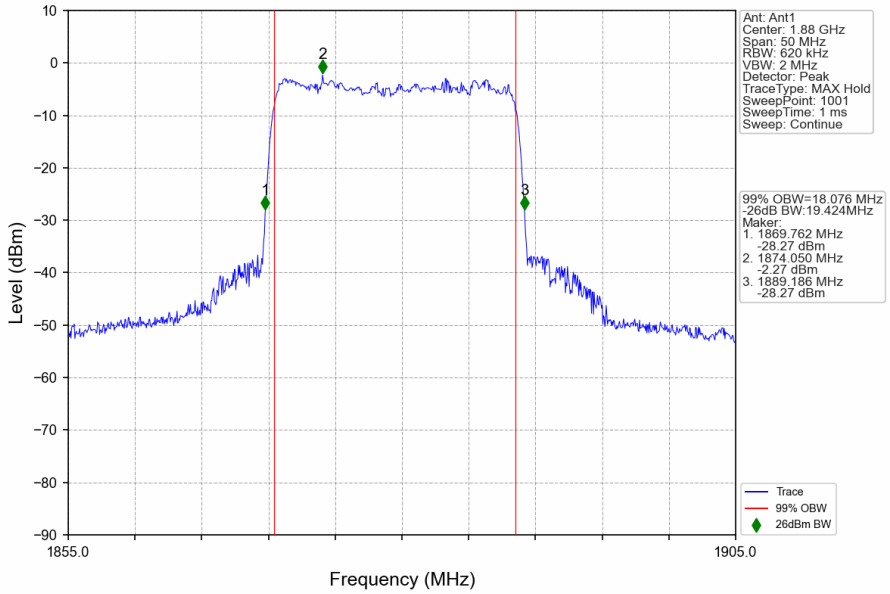
n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_1900MHz_Outer_Full



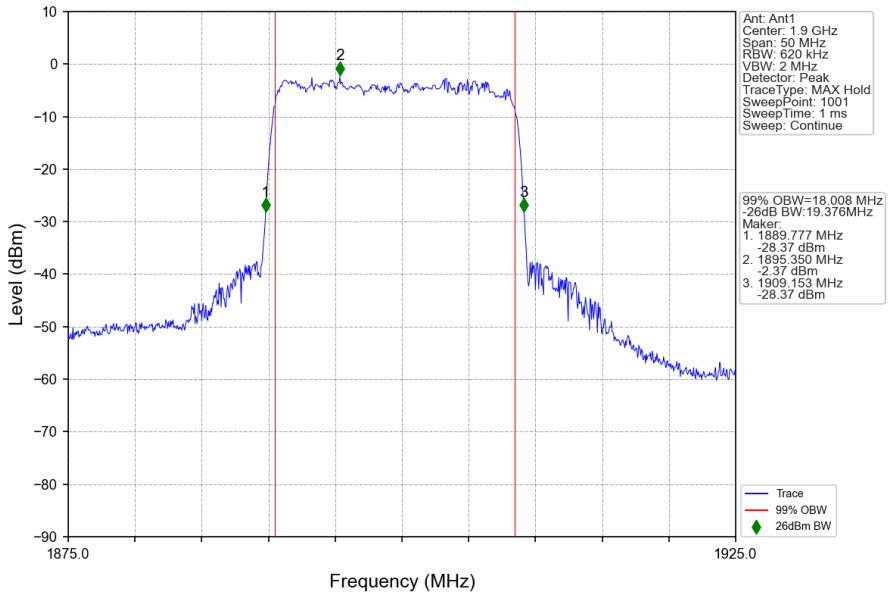
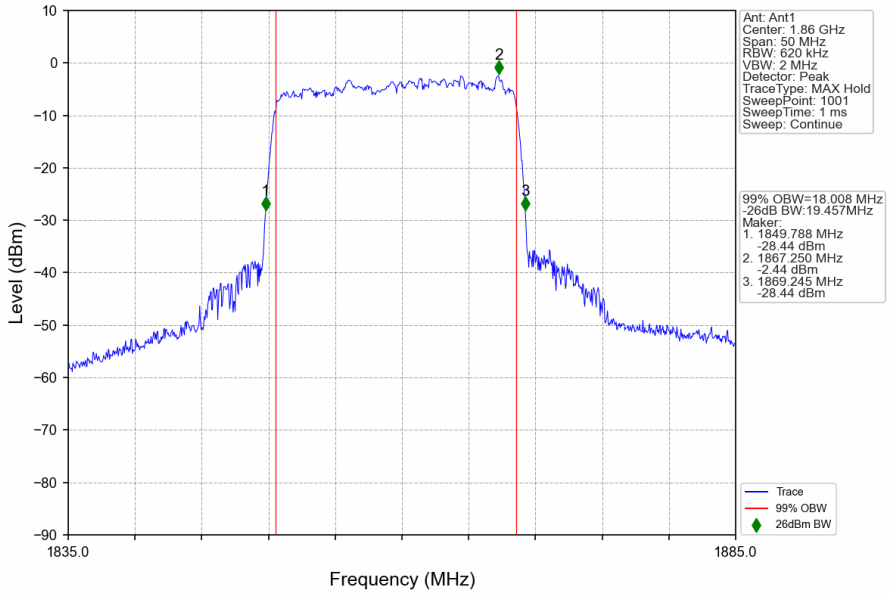
n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_1860MHz_Outer_Full



n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_1880MHz_Outer_Full



n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_1900MHz_Outer_Full



n2_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_1860MHz_Outer_Full