

CP-OFDM QPSK	1852.5	Outer_Full	4.57	5.37	/	Pass
	1882.5	Outer_Full	4.56	5.35	/	Pass
	1912.5	Outer_Full	4.54	5.36	/	Pass
CP-OFDM 16 QAM	1852.5	Outer_Full	4.56	5.31	/	Pass
	1882.5	Outer_Full	4.55	5.41	/	Pass
	1912.5	Outer_Full	4.55	5.42	/	Pass
CP-OFDM 64 QAM	1852.5	Outer_Full	4.55	5.33	/	Pass
	1882.5	Outer_Full	4.57	5.42	/	Pass
	1912.5	Outer_Full	4.55	5.32	/	Pass
CP-OFDM 256 QAM	1852.5	Outer_Full	4.56	5.32	/	Pass
	1882.5	Outer_Full	4.56	5.35	/	Pass
	1912.5	Outer_Full	4.56	5.36	/	Pass

3.1.2 15k_SISO_10MHz_NTNV

5G NR n25 SCS=15kHz SISO 10MHz NTVN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1855	Outer_Full	9.09	10.03	/	Pass
	1882.5	Outer_Full	9.04	10.03	/	Pass
	1910	Outer_Full	9.05	9.97	/	Pass
DFT-s-OFDM QPSK	1855	Outer_Full	9.07	10.07	/	Pass
	1882.5	Outer_Full	9.06	10.02	/	Pass
	1910	Outer_Full	9.07	10.11	/	Pass
DFT-s-OFDM 16 QAM	1855	Outer_Full	9.07	10.06	/	Pass
	1882.5	Outer_Full	9.09	9.95	/	Pass
	1910	Outer_Full	9.07	9.98	/	Pass
DFT-s-OFDM 64 QAM	1855	Outer_Full	9.06	10.05	/	Pass
	1882.5	Outer_Full	9.07	10.01	/	Pass
	1910	Outer_Full	9.04	10.12	/	Pass
DFT-s-OFDM 256 QAM	1855	Outer_Full	9.04	10.03	/	Pass
	1882.5	Outer_Full	9.05	10.15	/	Pass
	1910	Outer_Full	9.05	10.11	/	Pass
CP-OFDM QPSK	1855	Outer_Full	9.38	10.45	/	Pass
	1882.5	Outer_Full	9.38	10.46	/	Pass
	1910	Outer_Full	9.38	10.45	/	Pass
CP-OFDM 16 QAM	1855	Outer_Full	9.41	10.40	/	Pass
	1882.5	Outer_Full	9.41	10.55	/	Pass



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	1910	Outer_Full	9.39	10.38	/	Pass
CP-OFDM 64 QAM	1855	Outer_Full	9.40	10.37	/	Pass
	1882.5	Outer_Full	9.39	10.37	/	Pass
	1910	Outer_Full	9.39	10.45	/	Pass
CP-OFDM 256 QAM	1855	Outer_Full	9.38	10.40	/	Pass
	1882.5	Outer_Full	9.40	10.43	/	Pass
	1910	Outer_Full	9.39	10.37	/	Pass

3.1.3 15k_SISO_15MHz_NTNV

5G NR n25 SCS=15kHz SISO 15MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1857.5	Outer_Full	13.59	14.81	/	Pass
	1882.5	Outer_Full	13.60	14.77	/	Pass
	1907.5	Outer_Full	13.60	14.82	/	Pass
DFT-s-OFDM QPSK	1857.5	Outer_Full	13.60	14.79	/	Pass
	1882.5	Outer_Full	13.58	14.83	/	Pass
	1907.5	Outer_Full	13.61	14.85	/	Pass
DFT-s-OFDM 16 QAM	1857.5	Outer_Full	13.56	14.75	/	Pass
	1882.5	Outer_Full	13.56	14.69	/	Pass
	1907.5	Outer_Full	13.62	14.78	/	Pass
DFT-s-OFDM 64 QAM	1857.5	Outer_Full	13.58	14.81	/	Pass
	1882.5	Outer_Full	13.58	14.80	/	Pass
	1907.5	Outer_Full	13.55	14.81	/	Pass
DFT-s-OFDM 256 QAM	1857.5	Outer_Full	13.58	14.73	/	Pass
	1882.5	Outer_Full	13.55	14.78	/	Pass
	1907.5	Outer_Full	13.55	14.84	/	Pass
CP-OFDM QPSK	1857.5	Outer_Full	14.25	15.58	/	Pass
	1882.5	Outer_Full	14.27	15.53	/	Pass
	1907.5	Outer_Full	14.25	15.61	/	Pass
CP-OFDM 16 QAM	1857.5	Outer_Full	14.24	15.58	/	Pass
	1882.5	Outer_Full	14.26	15.49	/	Pass
	1907.5	Outer_Full	14.27	15.54	/	Pass
CP-OFDM 64 QAM	1857.5	Outer_Full	14.27	15.57	/	Pass
	1882.5	Outer_Full	14.28	15.55	/	Pass
	1907.5	Outer_Full	14.24	15.49	/	Pass
CP-OFDM 256 QAM	1857.5	Outer_Full	14.26	15.43	/	Pass



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	1882.5	Outer_Full	14.27	15.47	/	Pass
	1907.5	Outer_Full	14.28	15.45	/	Pass

3.1.4 15k_SISO_20MHz_NTNV

5G NR n25 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	18.07	19.46	/	Pass
	1882.5	Outer_Full	18.06	19.58	/	Pass
	1905	Outer_Full	18.13	19.53	/	Pass
DFT-s-OFDM QPSK	1860	Outer_Full	18.11	19.49	/	Pass
	1882.5	Outer_Full	18.11	19.57	/	Pass
	1905	Outer_Full	18.10	19.66	/	Pass
DFT-s-OFDM 16 QAM	1860	Outer_Full	18.05	19.48	/	Pass
	1882.5	Outer_Full	18.02	19.49	/	Pass
	1905	Outer_Full	18.11	19.53	/	Pass
DFT-s-OFDM 64 QAM	1860	Outer_Full	18.05	19.57	/	Pass
	1882.5	Outer_Full	18.10	19.54	/	Pass
	1905	Outer_Full	18.09	19.48	/	Pass
DFT-s-OFDM 256 QAM	1860	Outer_Full	18.08	19.53	/	Pass
	1882.5	Outer_Full	18.06	19.54	/	Pass
	1905	Outer_Full	18.08	19.59	/	Pass
CP-OFDM QPSK	1860	Outer_Full	19.10	20.58	/	Pass
	1882.5	Outer_Full	19.10	20.56	/	Pass
	1905	Outer_Full	19.11	21.60	/	Pass
CP-OFDM 16 QAM	1860	Outer_Full	19.10	20.56	/	Pass
	1882.5	Outer_Full	19.09	20.68	/	Pass
	1905	Outer_Full	19.14	20.61	/	Pass
CP-OFDM 64 QAM	1860	Outer_Full	19.11	21.16	/	Pass
	1882.5	Outer_Full	19.12	20.61	/	Pass
	1905	Outer_Full	19.11	20.60	/	Pass
CP-OFDM 256 QAM	1860	Outer_Full	19.11	20.61	/	Pass
	1882.5	Outer_Full	19.08	20.56	/	Pass
	1905	Outer_Full	19.12	20.65	/	Pass

3.1.5 15k_SISO_25MHz_NTNV



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5G NR n25 SCS=15kHz SISO 25MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1862.5	Outer_Full	23.10	24.67	/	Pass
	1882.5	Outer_Full	23.09	24.65	/	Pass
	1902.5	Outer_Full	23.13	24.71	/	Pass
DFT-s-OFDM QPSK	1862.5	Outer_Full	23.06	24.78	/	Pass
	1882.5	Outer_Full	23.07	24.77	/	Pass
	1902.5	Outer_Full	23.18	24.80	/	Pass
DFT-s-OFDM 16 QAM	1862.5	Outer_Full	23.09	24.66	/	Pass
	1882.5	Outer_Full	23.04	24.66	/	Pass
	1902.5	Outer_Full	23.09	24.73	/	Pass
DFT-s-OFDM 64 QAM	1862.5	Outer_Full	23.04	24.76	/	Pass
	1882.5	Outer_Full	23.06	24.73	/	Pass
	1902.5	Outer_Full	23.22	24.72	/	Pass
DFT-s-OFDM 256 QAM	1862.5	Outer_Full	23.07	24.76	/	Pass
	1882.5	Outer_Full	23.03	24.72	/	Pass
	1902.5	Outer_Full	23.18	24.79	/	Pass
CP-OFDM QPSK	1862.5	Outer_Full	23.95	25.68	/	Pass
	1882.5	Outer_Full	23.91	25.76	/	Pass
	1902.5	Outer_Full	24.00	25.69	/	Pass
CP-OFDM 16 QAM	1862.5	Outer_Full	23.92	25.74	/	Pass
	1882.5	Outer_Full	23.94	25.74	/	Pass
	1902.5	Outer_Full	24.00	25.66	/	Pass
CP-OFDM 64 QAM	1862.5	Outer_Full	23.97	25.68	/	Pass
	1882.5	Outer_Full	23.92	25.60	/	Pass
	1902.5	Outer_Full	24.01	25.62	/	Pass
CP-OFDM 256 QAM	1862.5	Outer_Full	23.91	25.62	/	Pass
	1882.5	Outer_Full	23.92	25.63	/	Pass
	1902.5	Outer_Full	23.99	25.84	/	Pass

3.1.6 15k_SISO_30MHz_NTV

5G NR n25 SCS=15kHz SISO 30MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1865	Outer_Full	28.84	30.80	/	Pass
	1882.5	Outer_Full	28.82	30.68	/	Pass



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	1900	Outer_Full	28.93	30.78	/	Pass
DFT-s-OFDM QPSK	1865	Outer_Full	28.86	30.79	/	Pass
	1882.5	Outer_Full	28.77	30.89	/	Pass
	1900	Outer_Full	28.89	30.86	/	Pass
DFT-s-OFDM 16 QAM	1865	Outer_Full	28.76	30.84	/	Pass
	1882.5	Outer_Full	28.81	30.82	/	Pass
	1900	Outer_Full	28.97	30.81	/	Pass
DFT-s-OFDM 64 QAM	1865	Outer_Full	28.76	30.84	/	Pass
	1882.5	Outer_Full	28.82	30.79	/	Pass
	1900	Outer_Full	28.93	30.89	/	Pass
DFT-s-OFDM 256 QAM	1865	Outer_Full	28.76	30.82	/	Pass
	1882.5	Outer_Full	28.73	30.79	/	Pass
	1900	Outer_Full	28.93	30.93	/	Pass
CP-OFDM QPSK	1865	Outer_Full	28.79	30.79	/	Pass
	1882.5	Outer_Full	28.69	30.84	/	Pass
	1900	Outer_Full	28.93	32.02	/	Pass
CP-OFDM 16 QAM	1865	Outer_Full	28.83	31.58	/	Pass
	1882.5	Outer_Full	28.74	31.71	/	Pass
	1900	Outer_Full	28.97	30.84	/	Pass
CP-OFDM 64 QAM	1865	Outer_Full	28.82	32.20	/	Pass
	1882.5	Outer_Full	28.73	33.52	/	Pass
	1900	Outer_Full	28.92	32.88	/	Pass
CP-OFDM 256 QAM	1865	Outer_Full	28.79	30.76	/	Pass
	1882.5	Outer_Full	28.74	30.75	/	Pass
	1900	Outer_Full	28.91	30.83	/	Pass

3.1.7 15k_SISO_40MHz_NTNV

5G NR n25 SCS=15kHz SISO 40MHz NTVN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1870	Outer_Full	39.37	41.49	/	Pass
	1882.5	Outer_Full	38.80	41.42	/	Pass
	1895	Outer_Full	39.27	41.40	/	Pass
DFT-s-OFDM QPSK	1870	Outer_Full	39.64	44.84	/	Pass
	1882.5	Outer_Full	38.82	41.43	/	Pass
	1895	Outer_Full	38.95	41.48	/	Pass
DFT-s-OFDM 16 QAM	1870	Outer_Full	39.61	44.54	/	Pass



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	1882.5	Outer_Full	38.73	41.48	/	Pass
	1895	Outer_Full	38.88	41.45	/	Pass
DFT-s-OFDM 64 QAM	1870	Outer_Full	39.36	44.48	/	Pass
	1882.5	Outer_Full	38.73	41.43	/	Pass
	1895	Outer_Full	38.91	41.53	/	Pass
DFT-s-OFDM 256 QAM	1870	Outer_Full	39.80	44.75	/	Pass
	1882.5	Outer_Full	38.68	41.38	/	Pass
	1895	Outer_Full	38.89	41.51	/	Pass
CP-OFDM QPSK	1870	Outer_Full	38.73	41.42	/	Pass
	1882.5	Outer_Full	38.74	41.42	/	Pass
	1895	Outer_Full	38.90	41.48	/	Pass
CP-OFDM 16 QAM	1870	Outer_Full	38.82	41.50	/	Pass
	1882.5	Outer_Full	38.76	41.42	/	Pass
	1895	Outer_Full	38.95	41.53	/	Pass
CP-OFDM 64 QAM	1870	Outer_Full	38.73	41.41	/	Pass
	1882.5	Outer_Full	38.70	41.42	/	Pass
	1895	Outer_Full	38.88	41.44	/	Pass
CP-OFDM 256 QAM	1870	Outer_Full	38.84	41.50	/	Pass
	1882.5	Outer_Full	38.74	41.43	/	Pass
	1895	Outer_Full	38.87	41.42	/	Pass



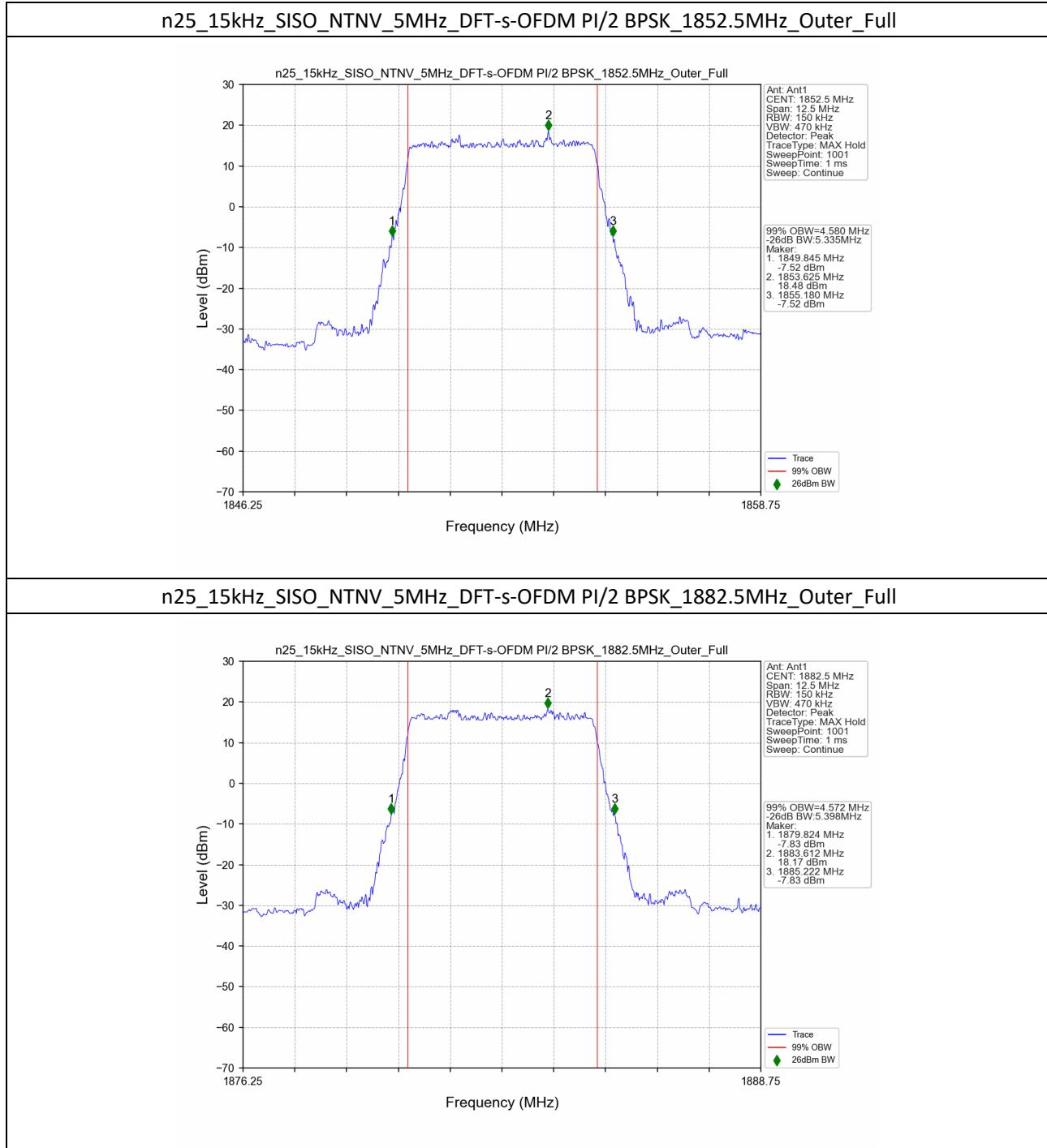
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3.2 Test Graph

3.2.1 15k_SISO_5MHz_NTNV



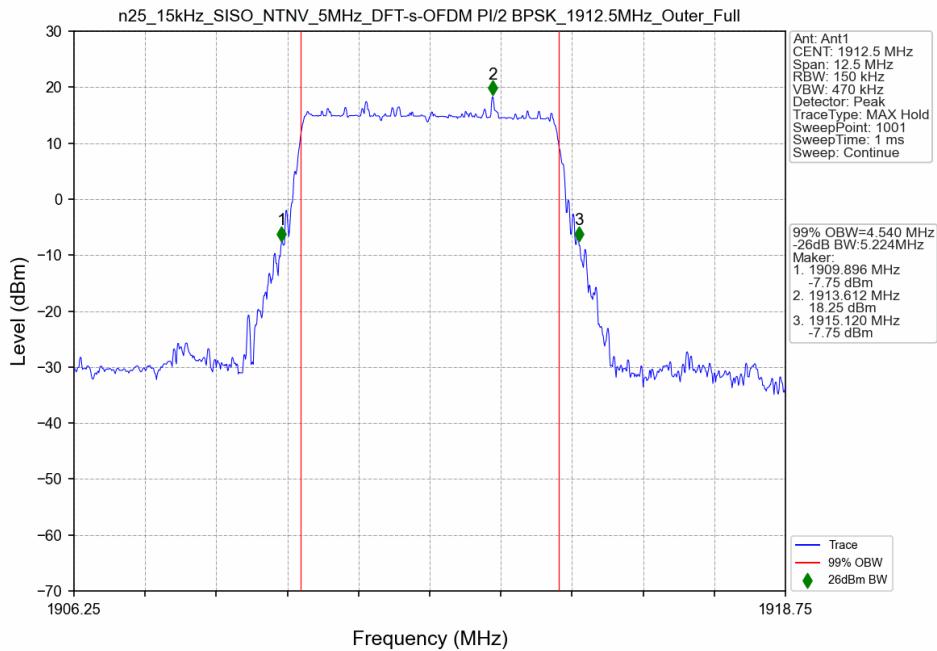
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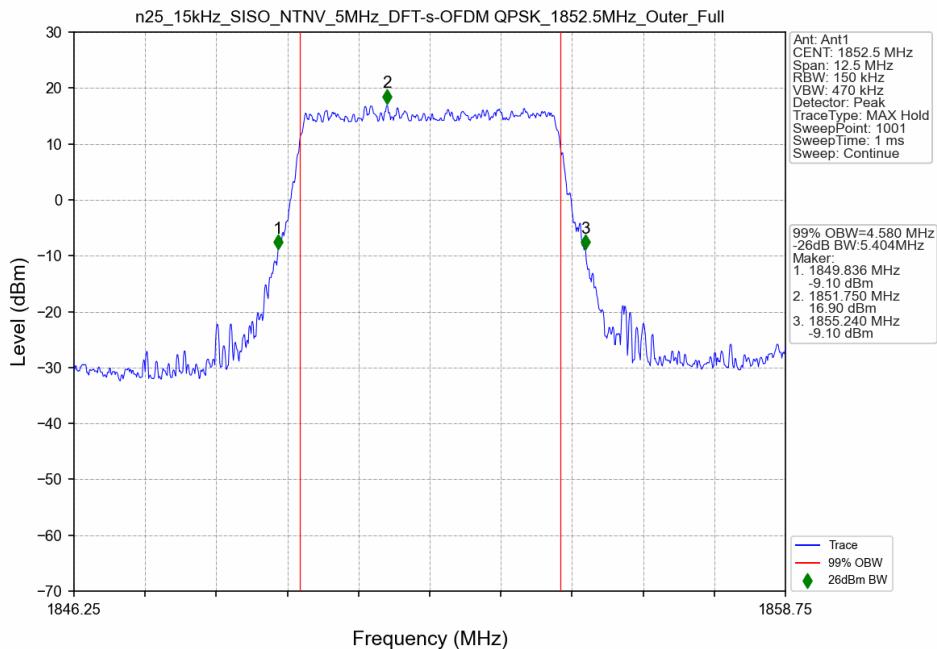
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n25_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_1912.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_1852.5MHz_Outer_Full



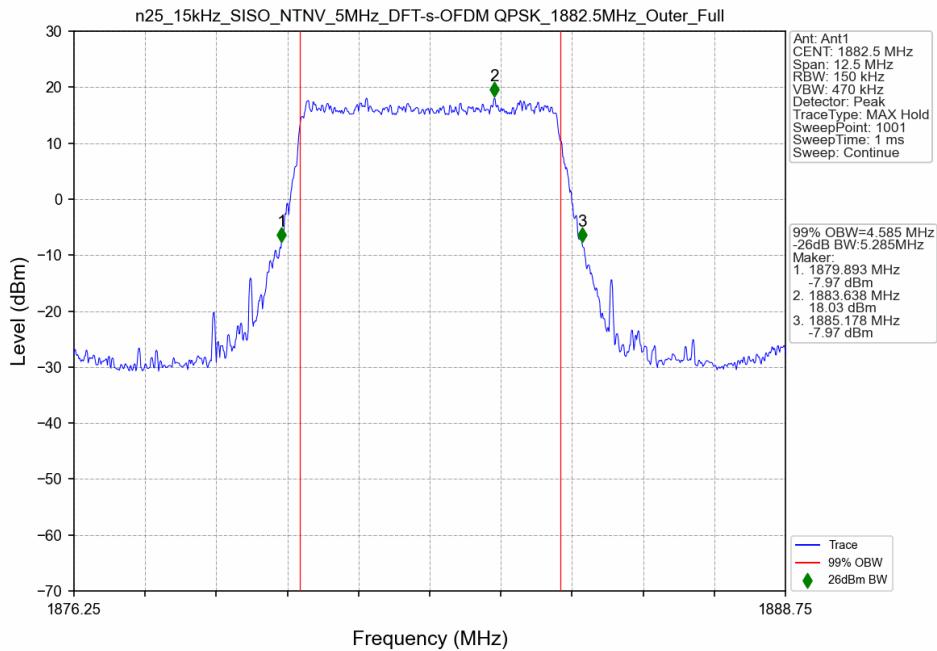
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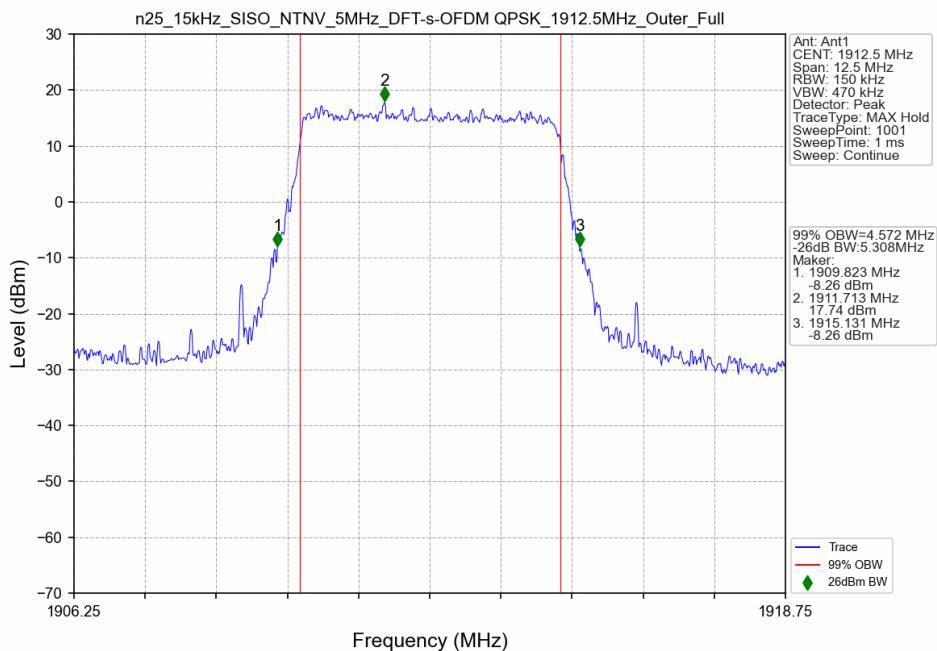
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n25_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_1882.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_1912.5MHz_Outer_Full



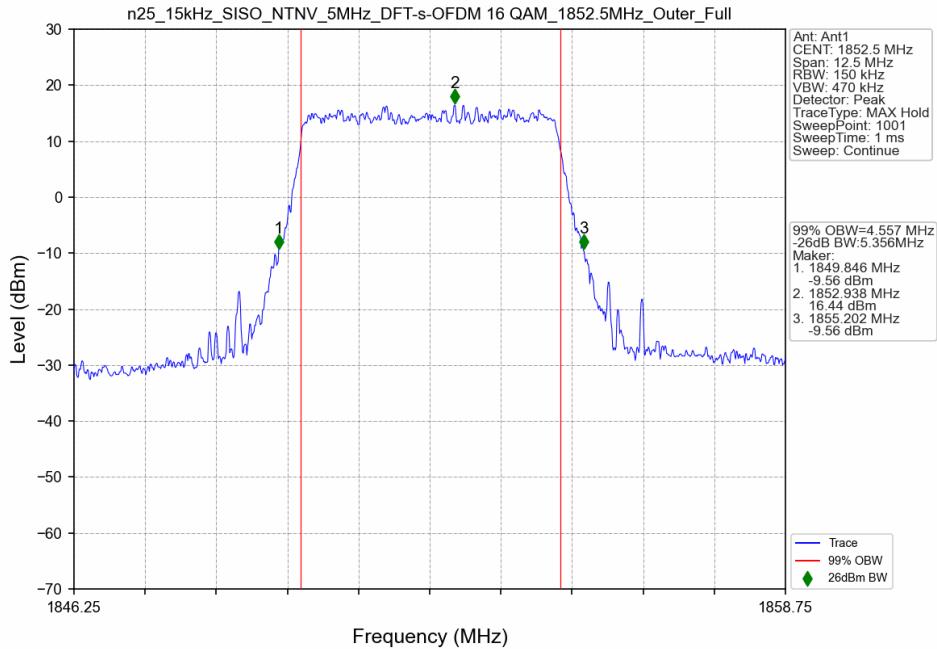
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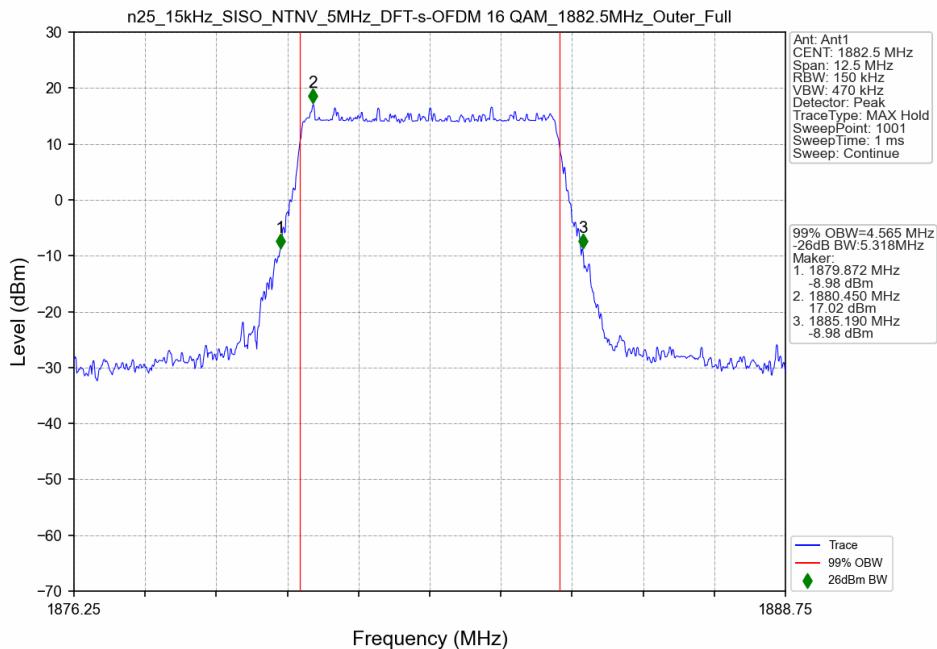
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n25_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 16 QAM_1852.5MHz_Outer_Full



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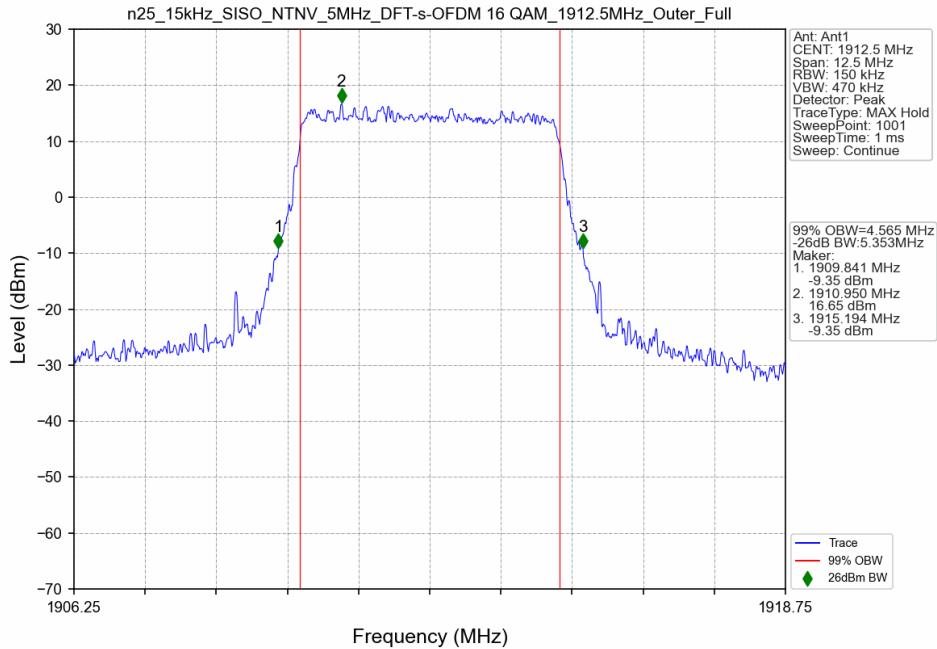
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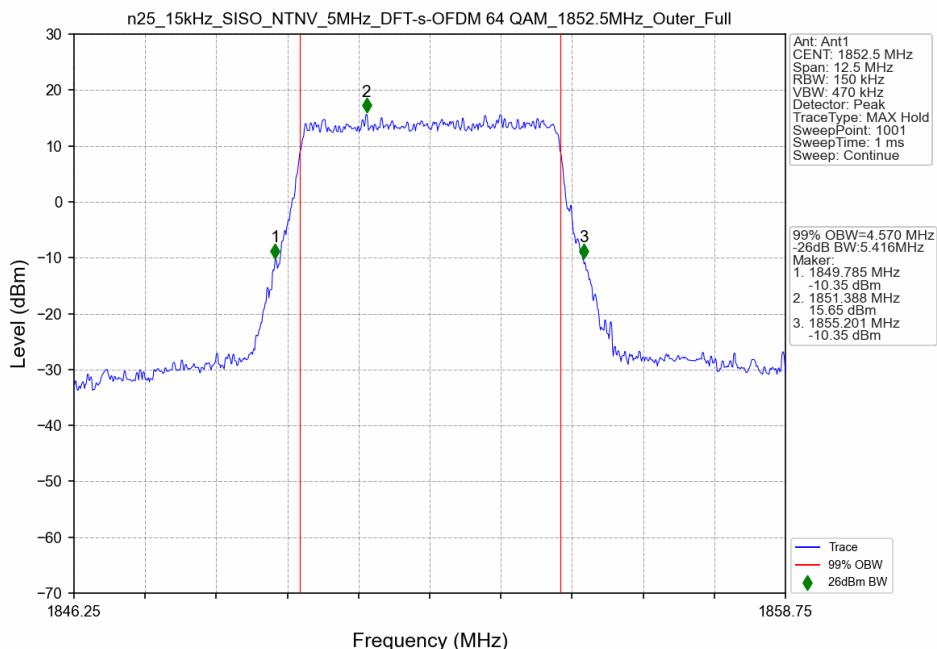
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n25_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 16 QAM_1912.5MHz_Outer_Full



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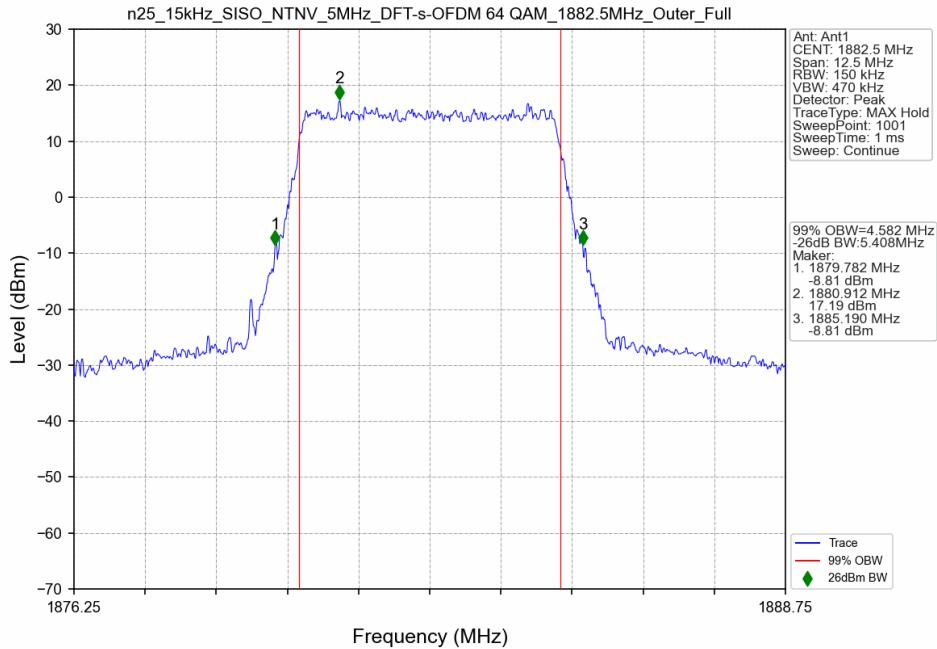
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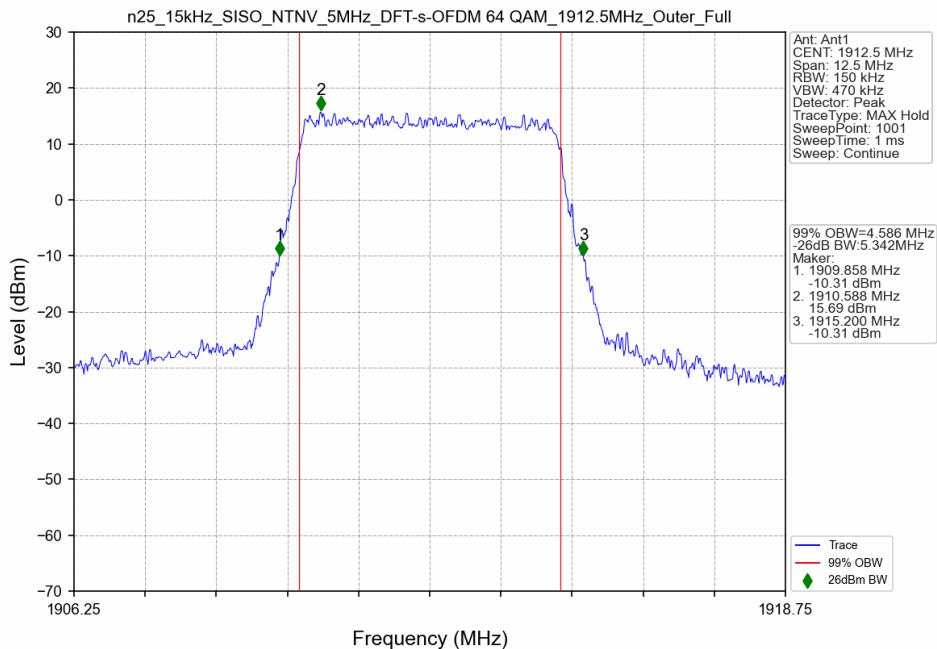
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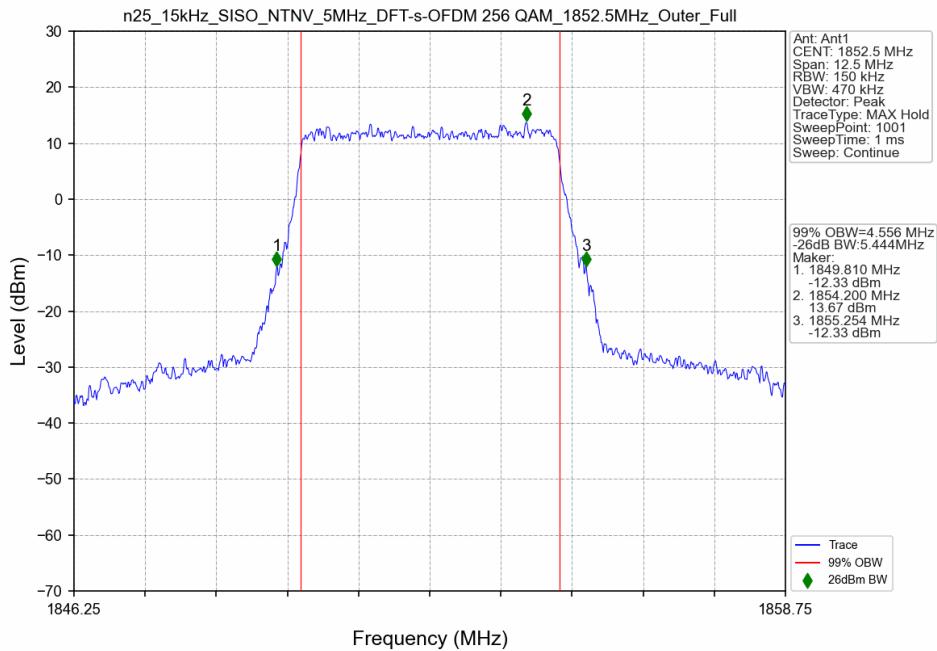
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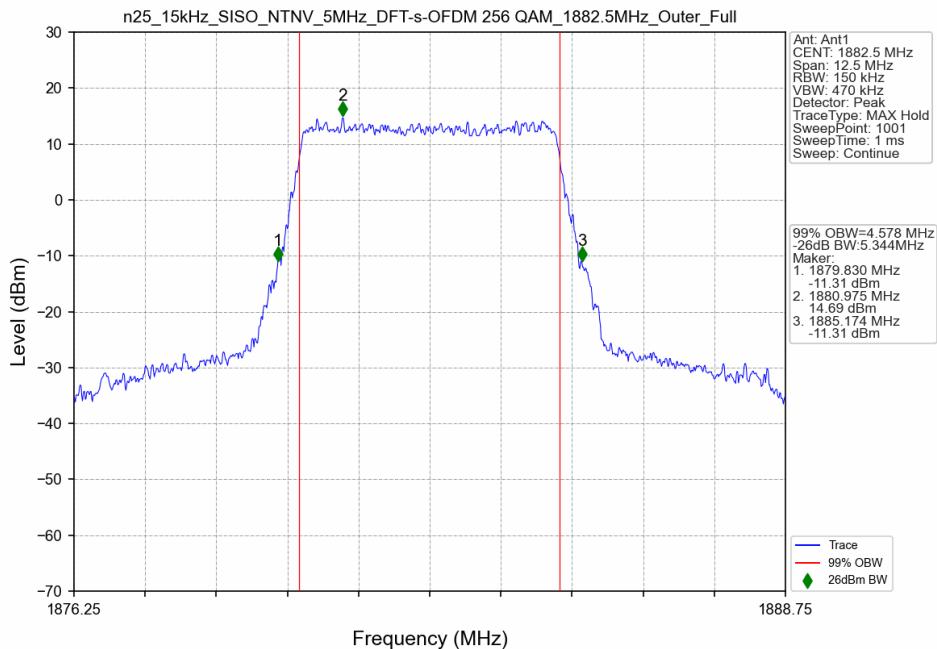
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n25_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 256 QAM_1852.5MHz_Outer_Full



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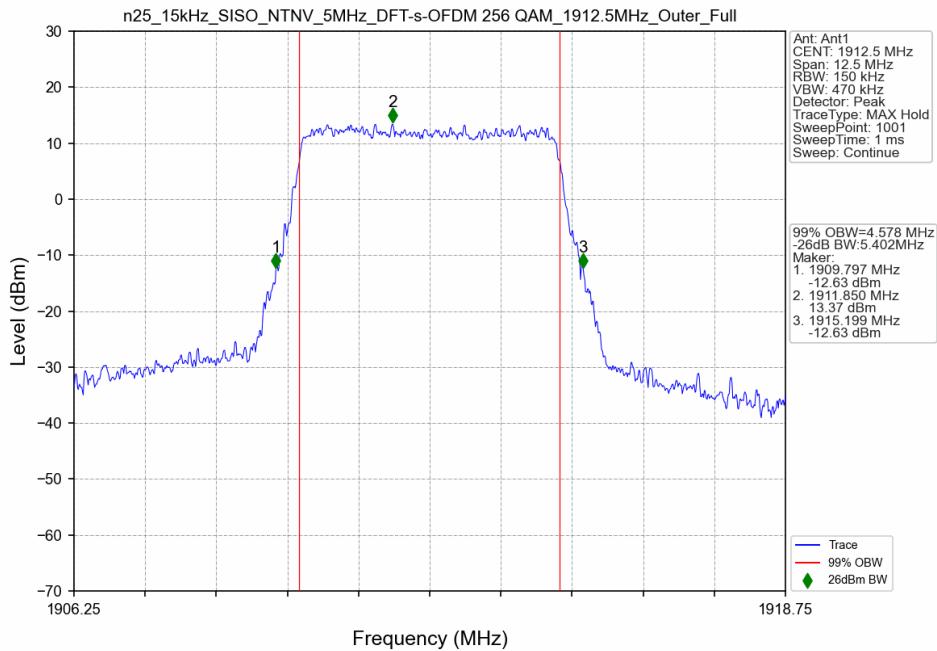


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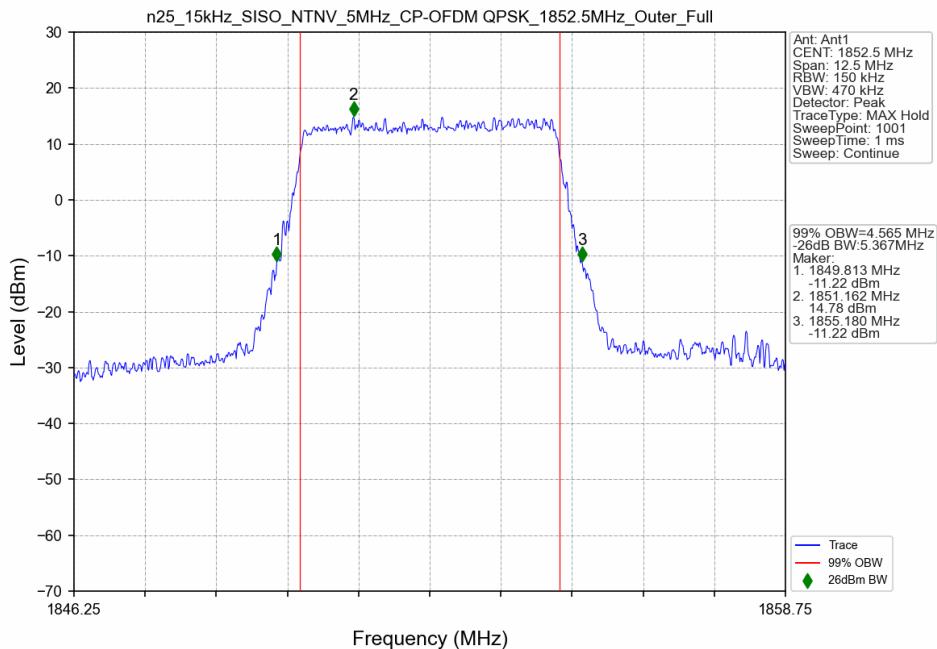
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n25_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 256 QAM_1912.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_1852.5MHz_Outer_Full



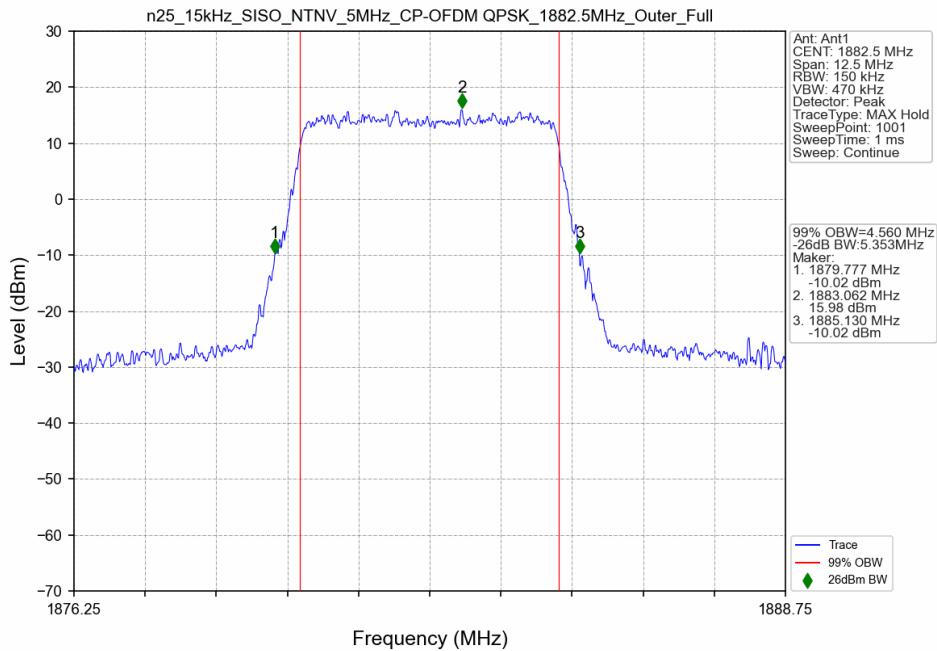
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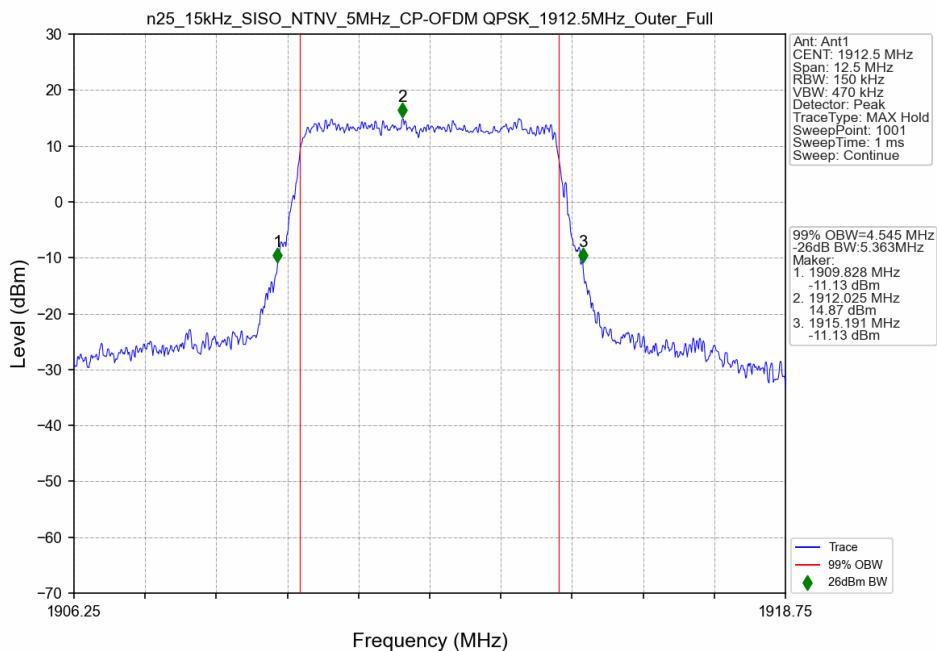
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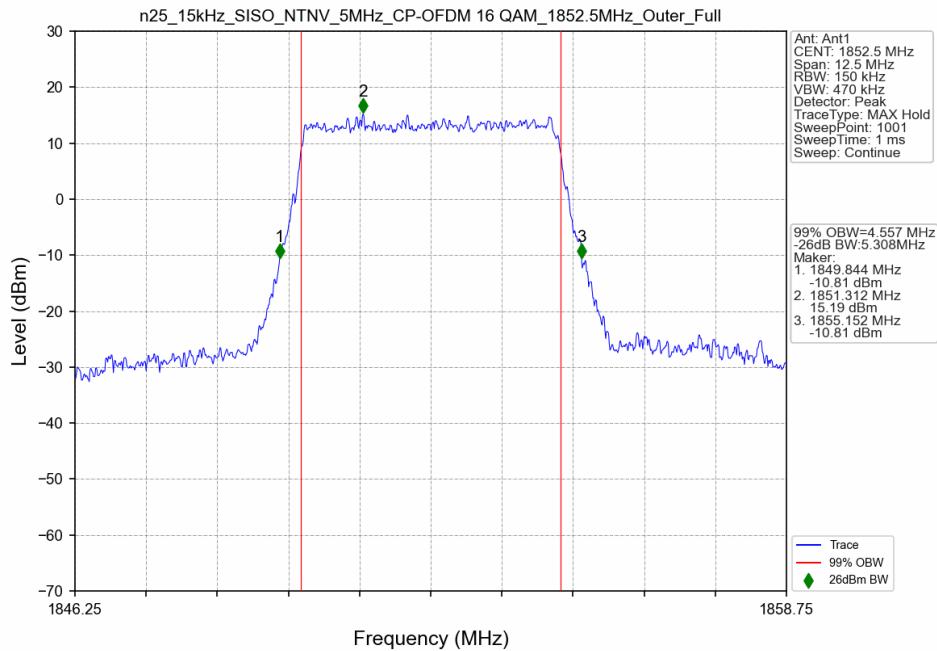
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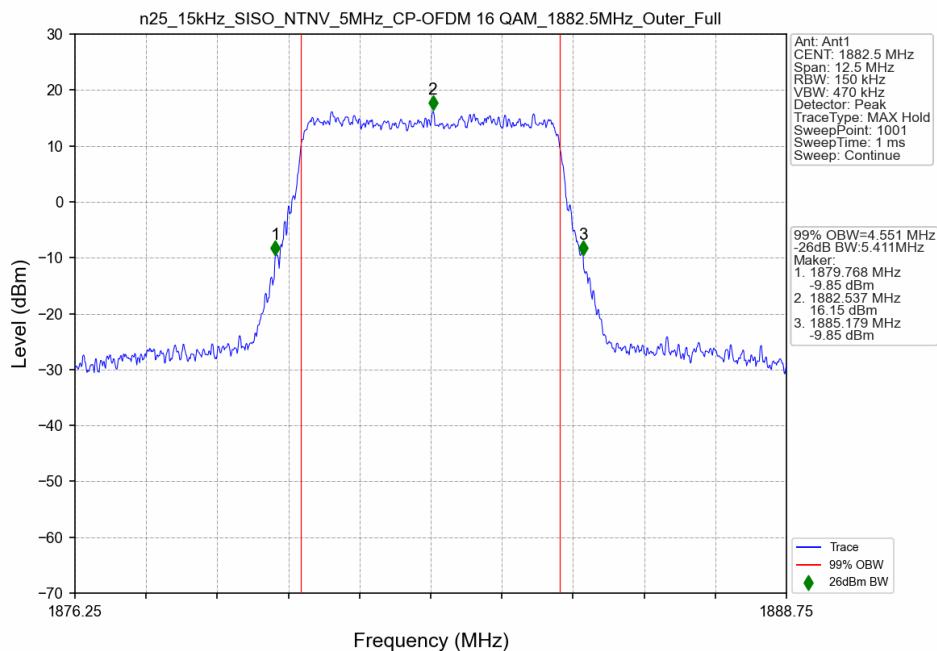
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n25_15kHz_SISO_NTNV_5MHz_CP-OFDM 16 QAM_1852.5MHz_Outer_Full



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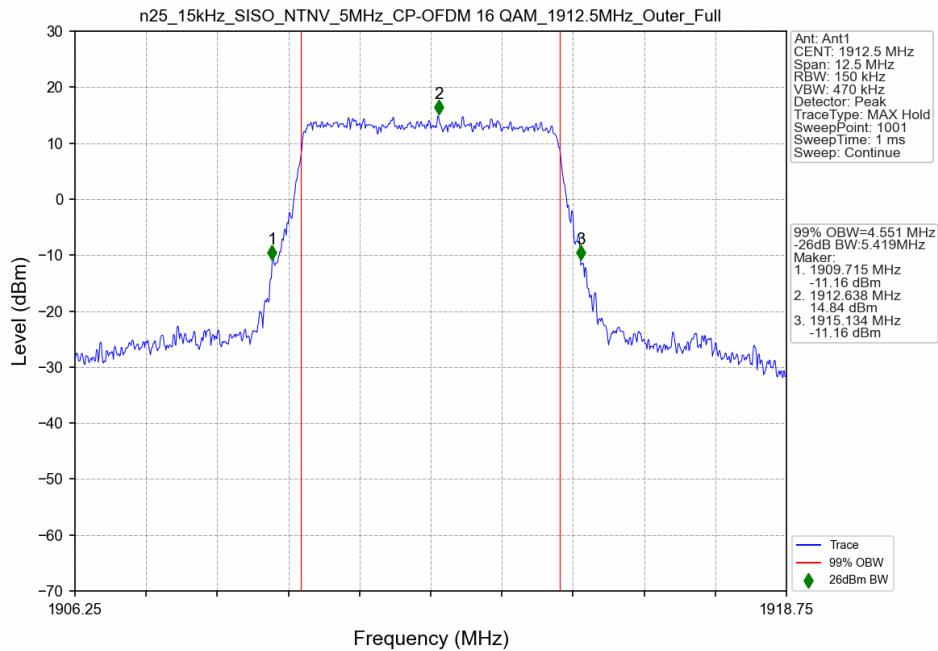
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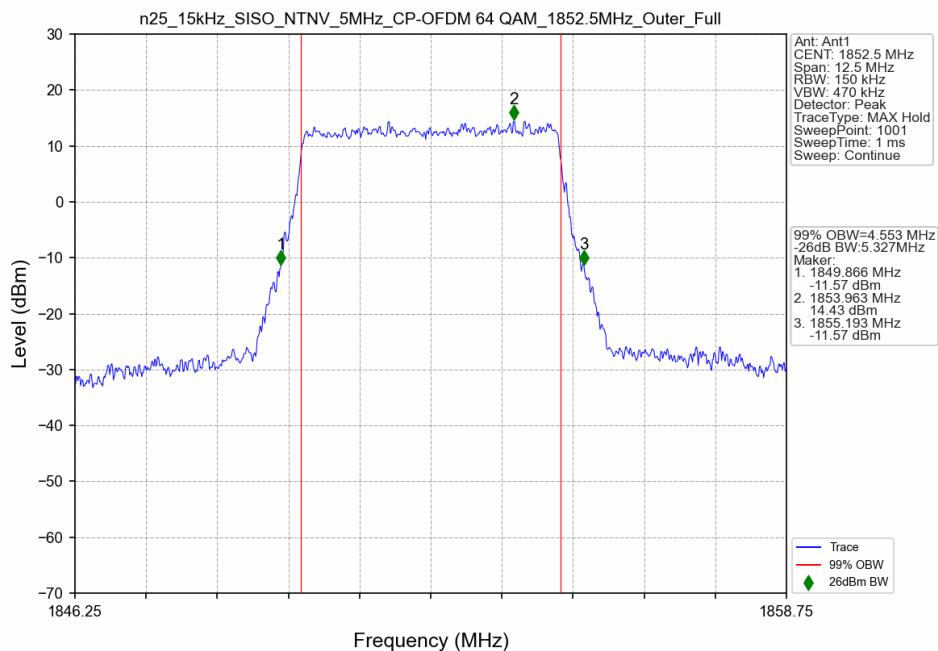
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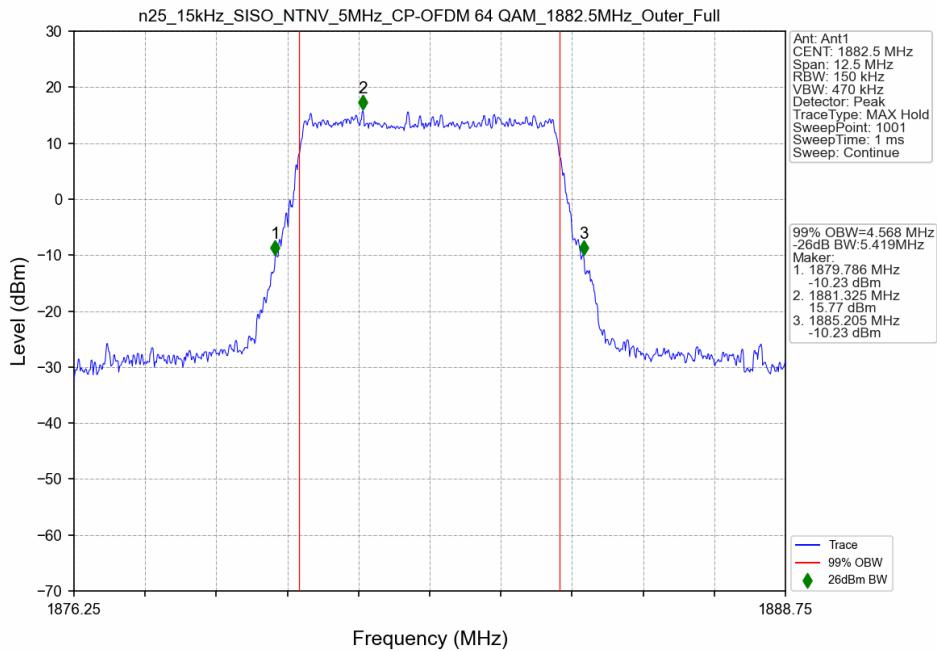
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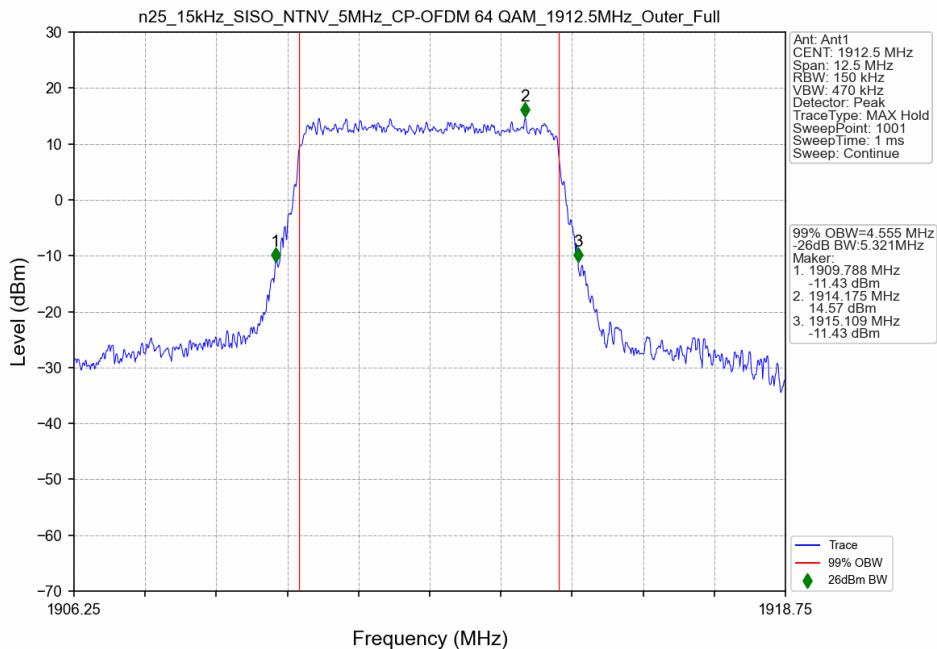
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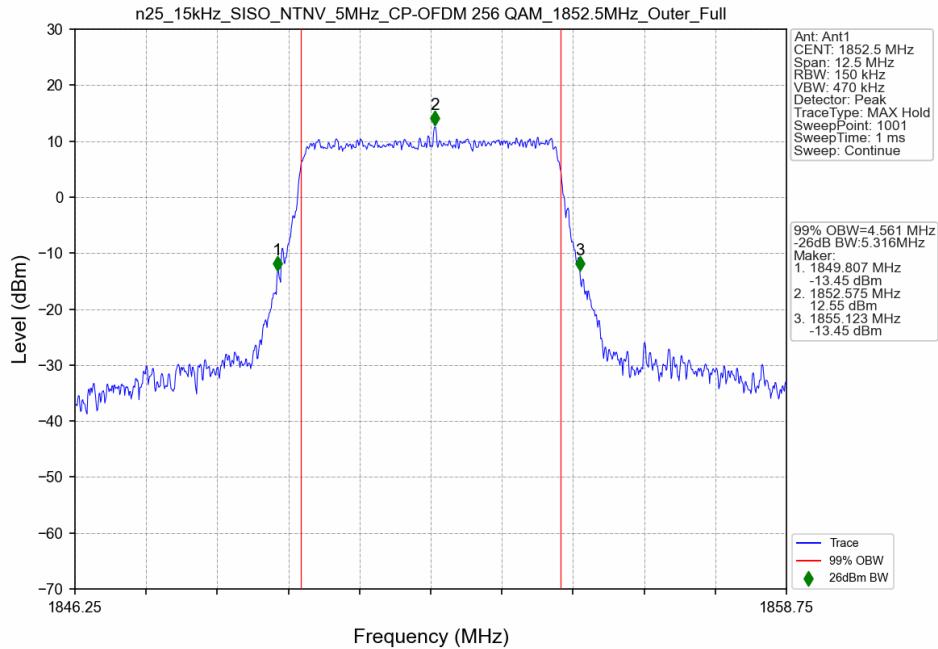
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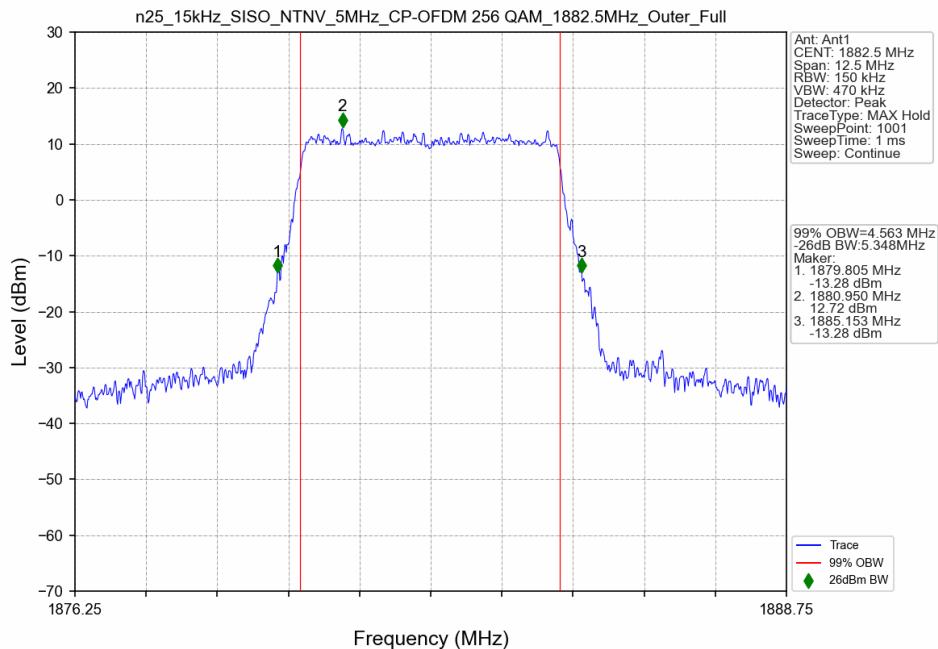
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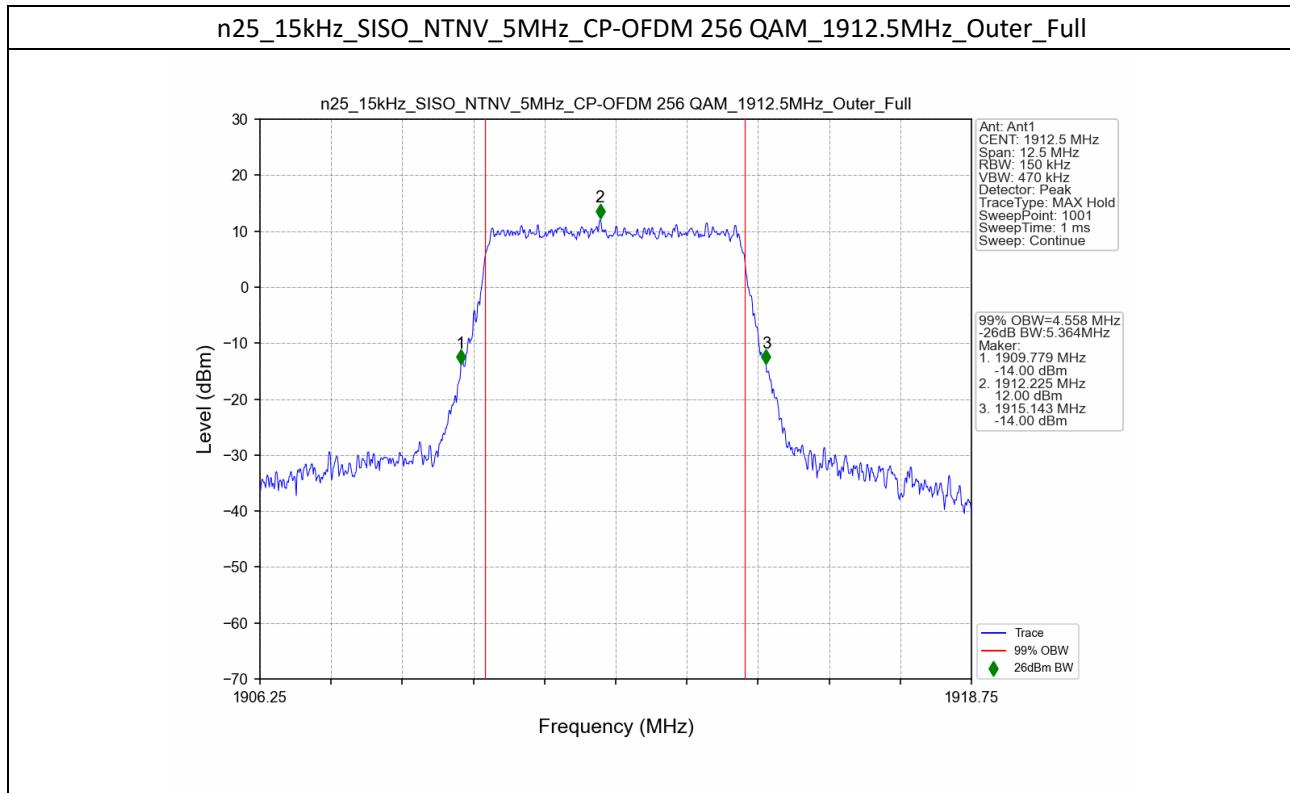


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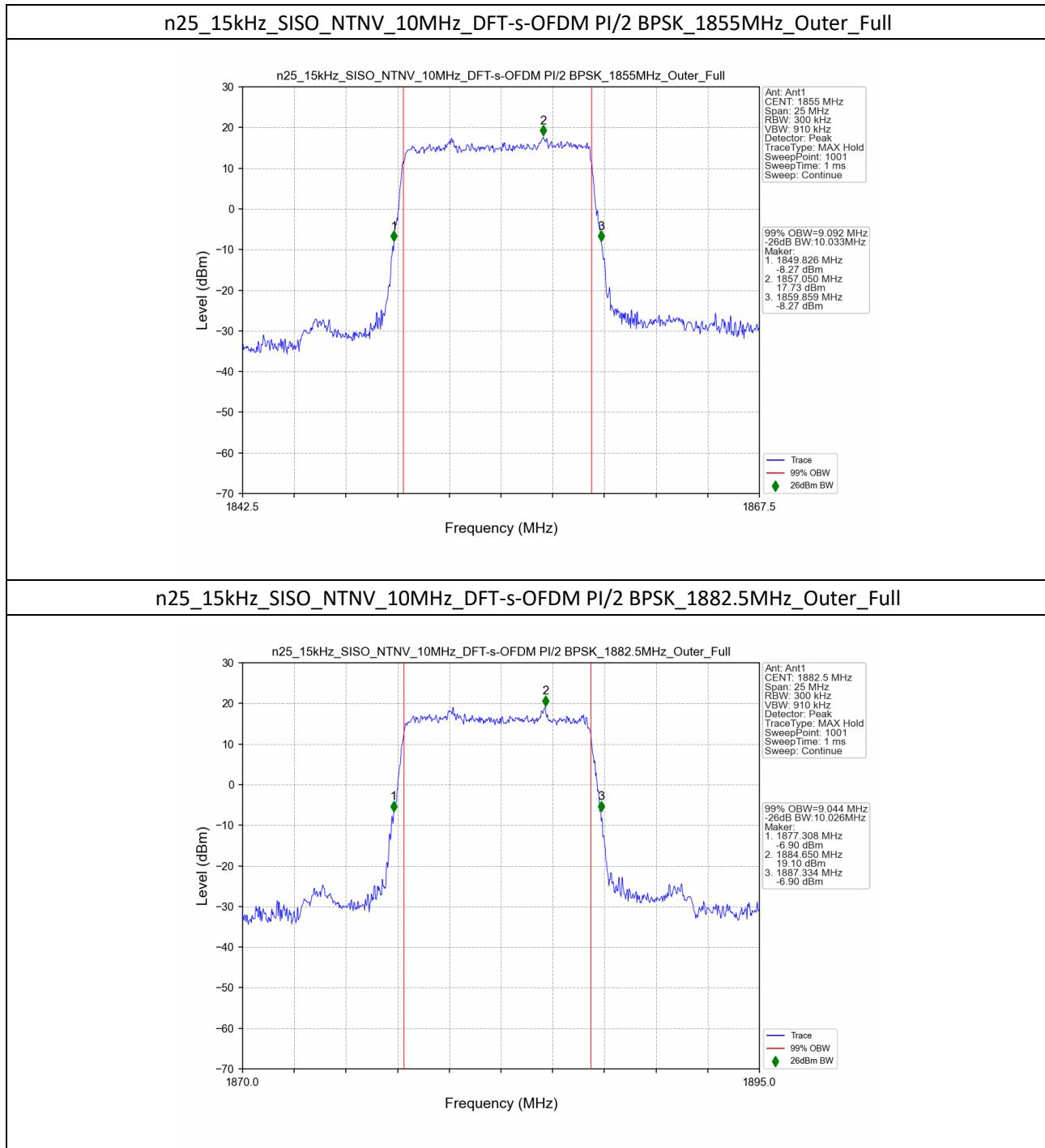
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3.2.2 15k_SISO_10MHz_NTNV

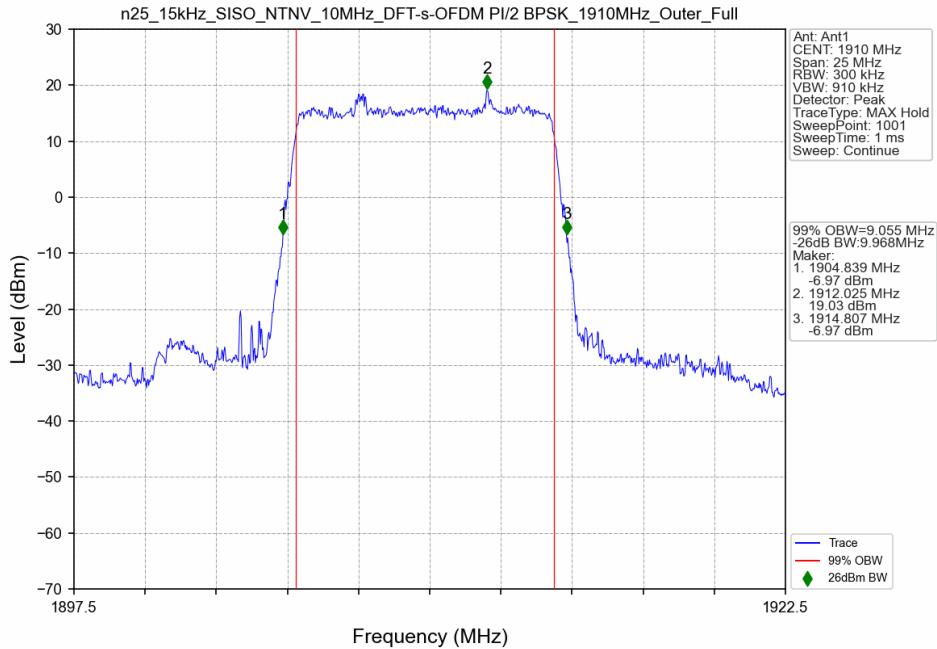


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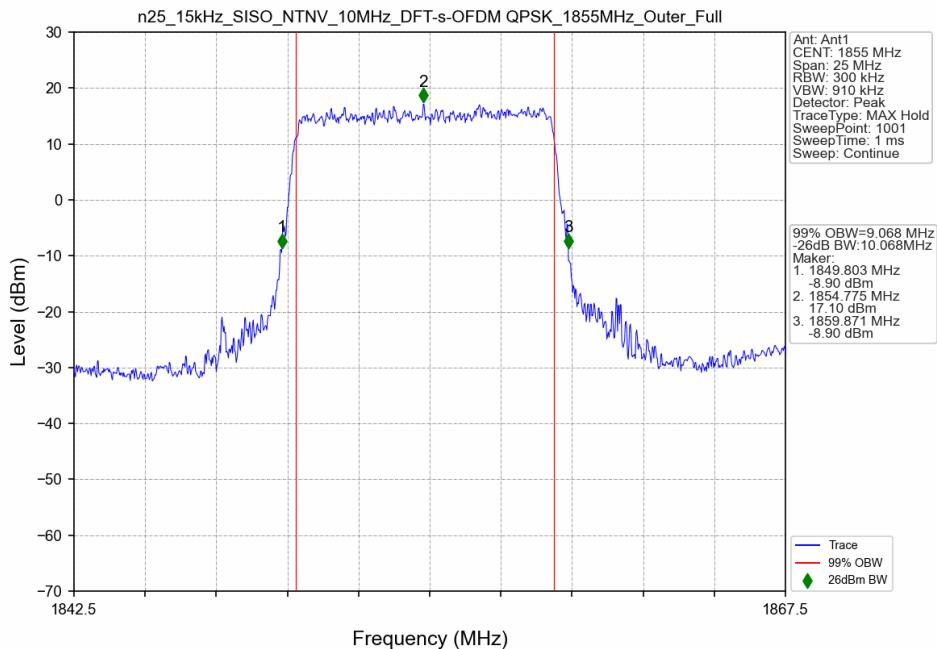
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n25_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_1910MHz_Outer_Full



n25_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1855MHz_Outer_Full



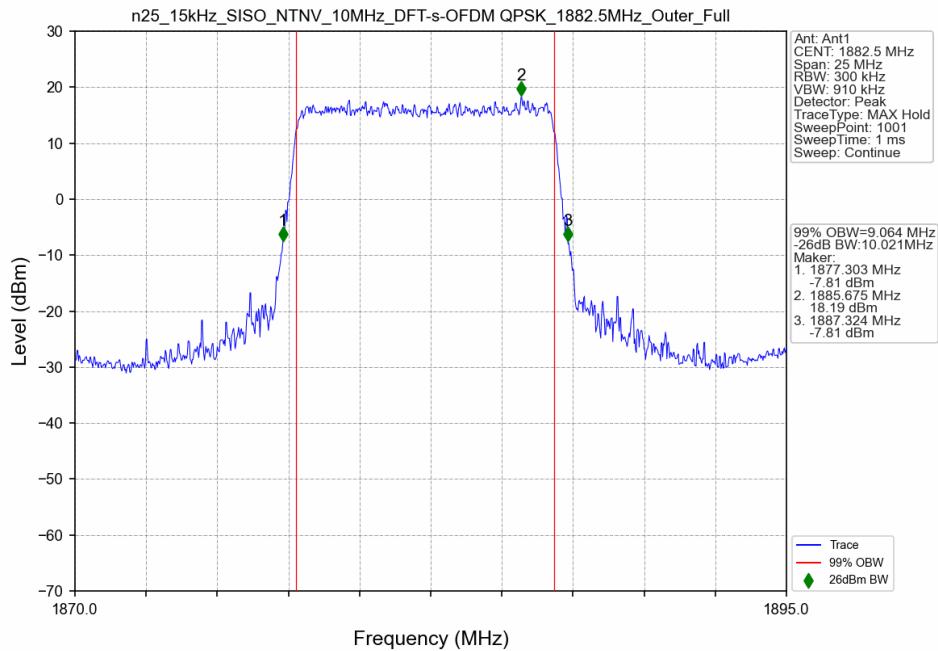
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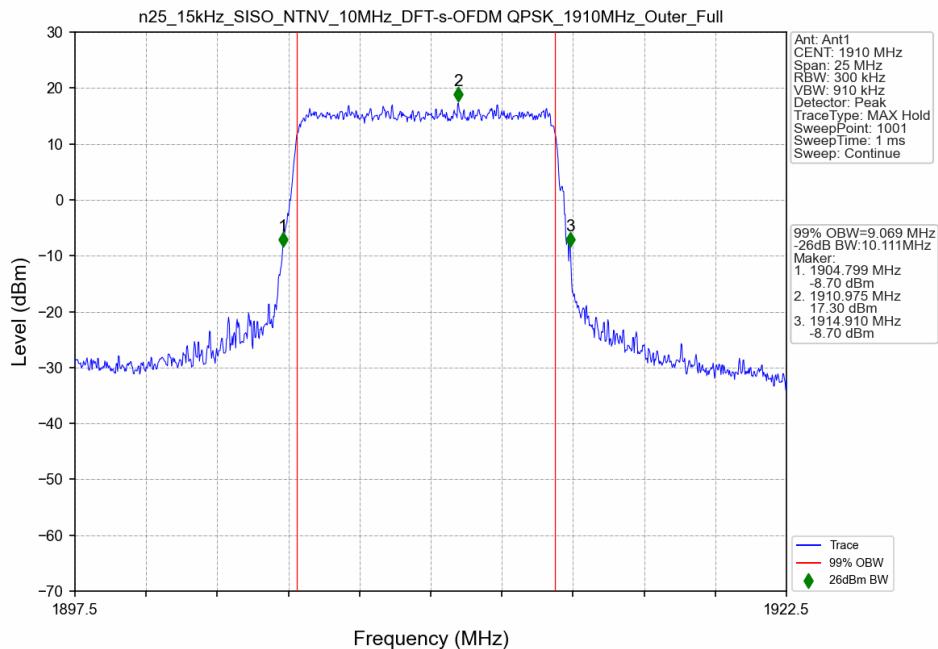
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n25_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1882.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1910MHz_Outer_Full



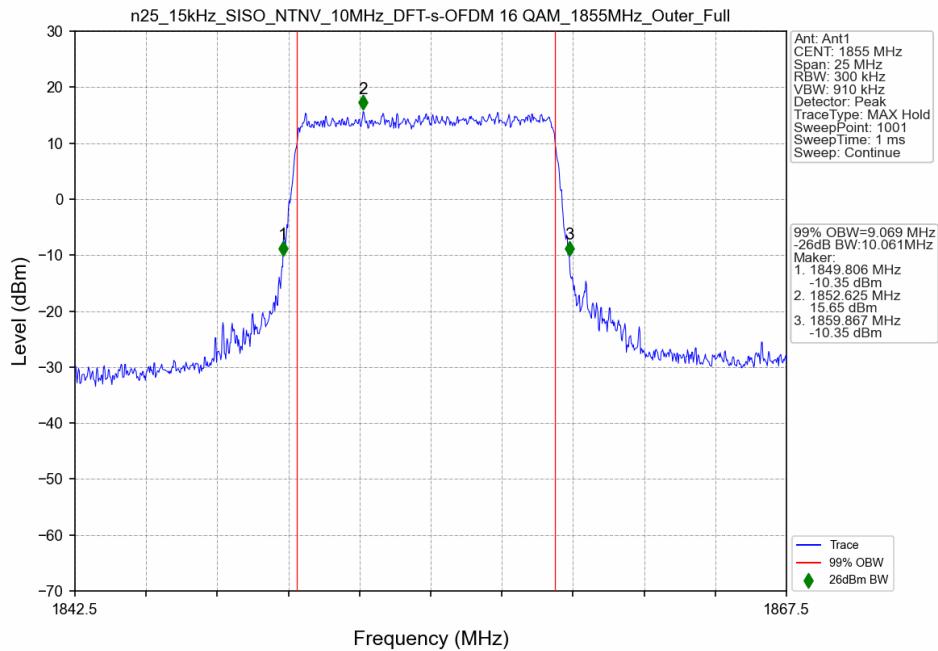
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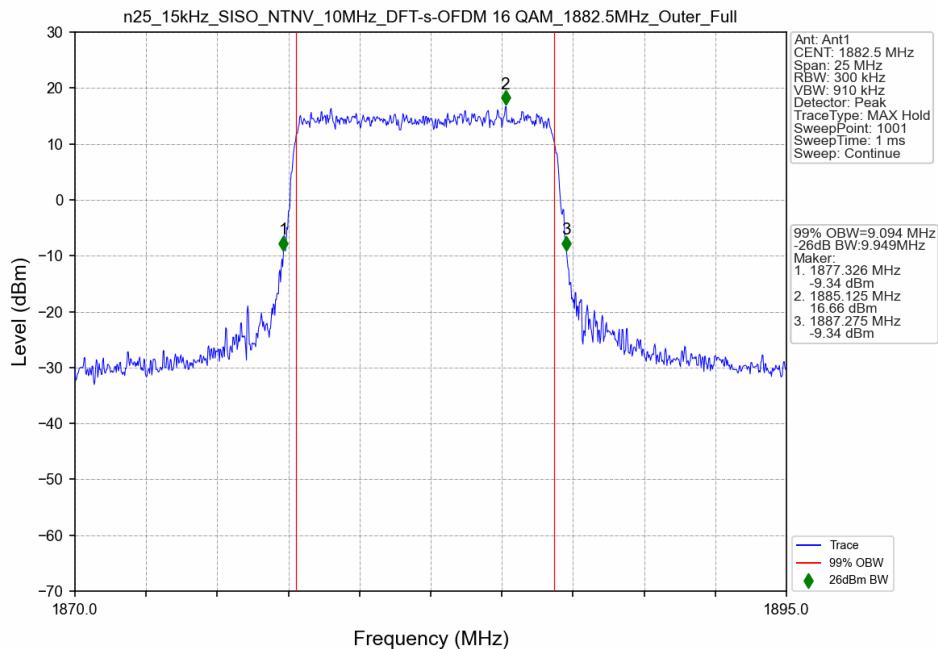
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n25_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_1855MHz_Outer_Full



n25_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_1882.5MHz_Outer_Full



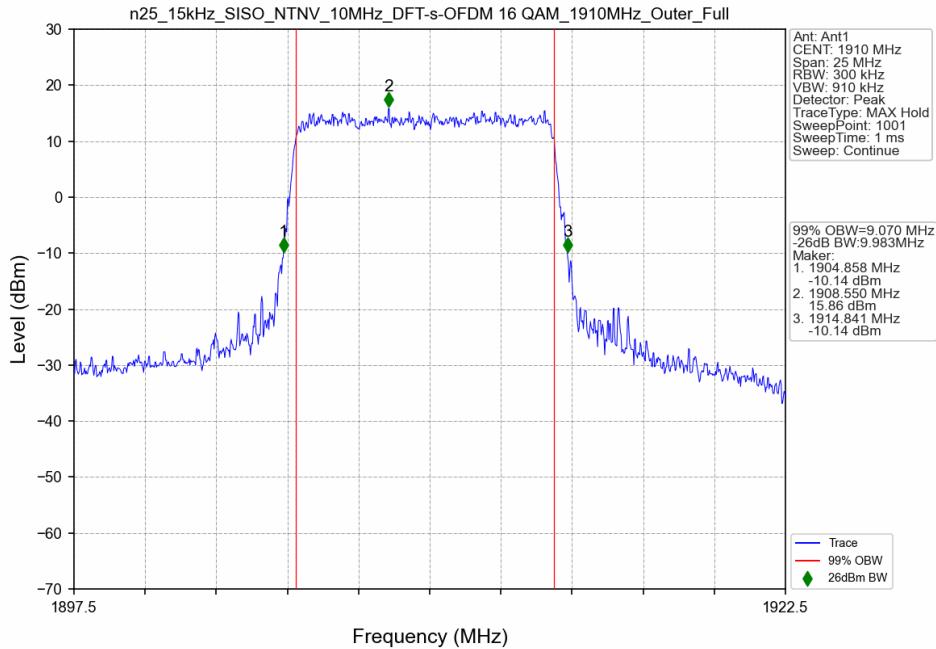
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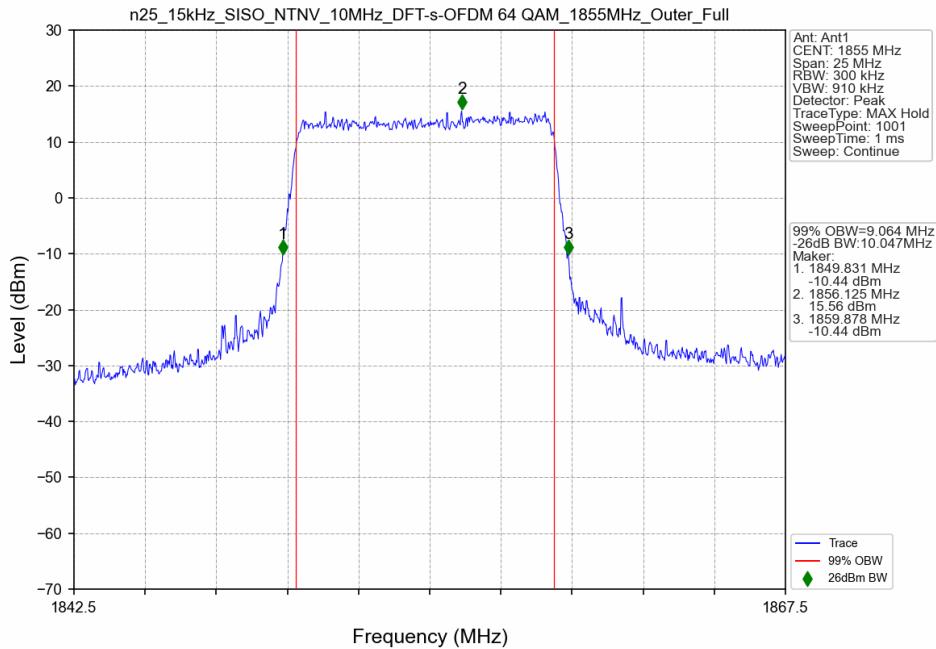
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n25_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_1910MHz_Outer_Full



n25_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_1855MHz_Outer_Full



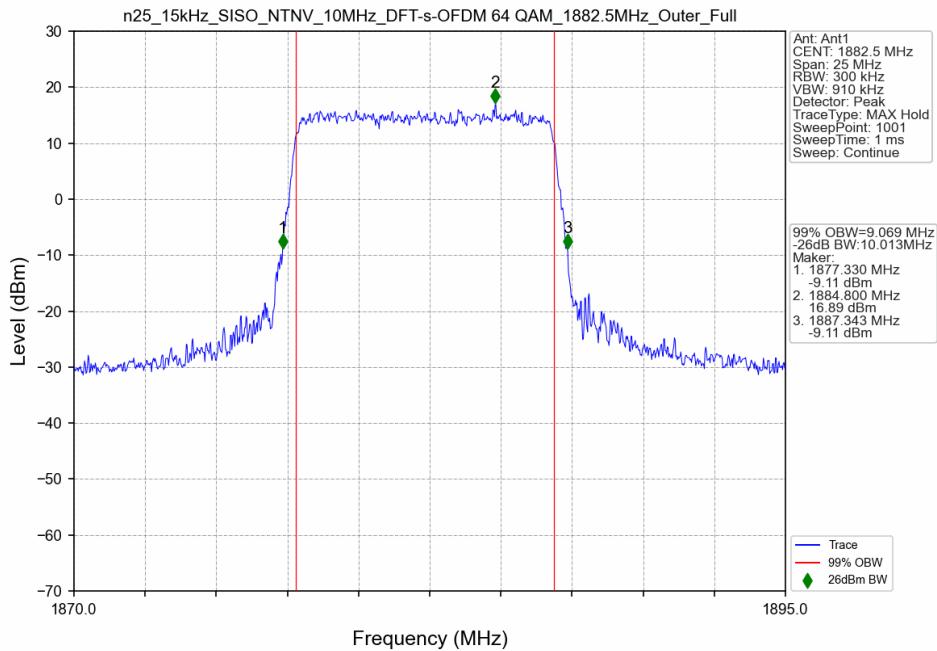
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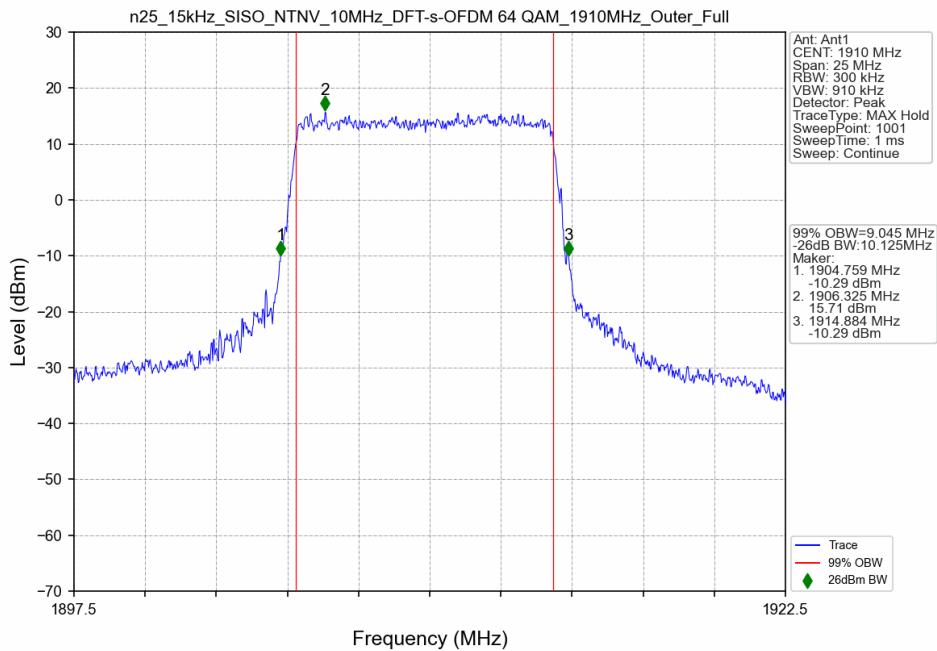
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n25_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_1882.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_1910MHz_Outer_Full



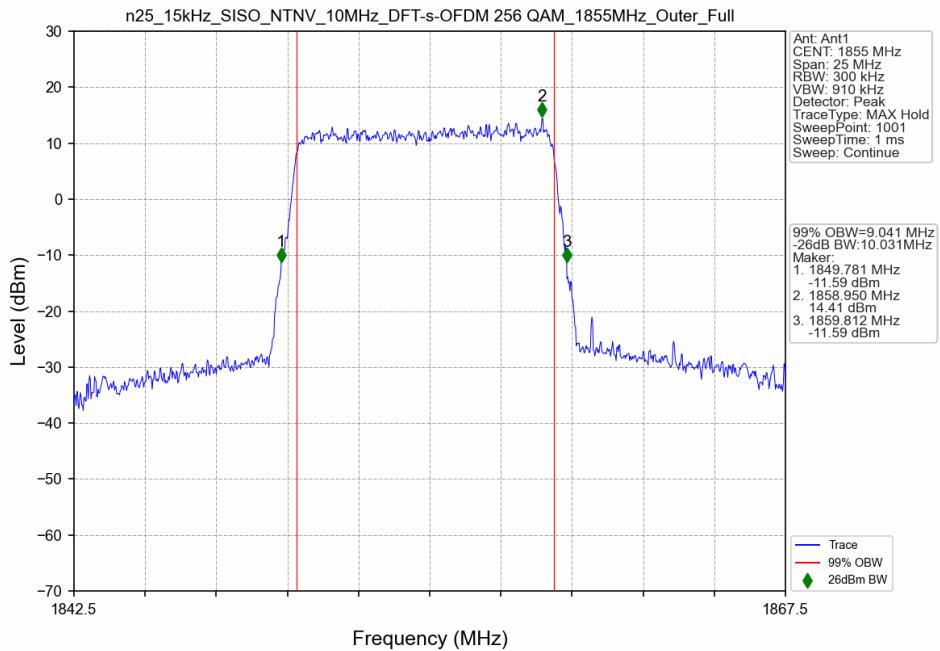
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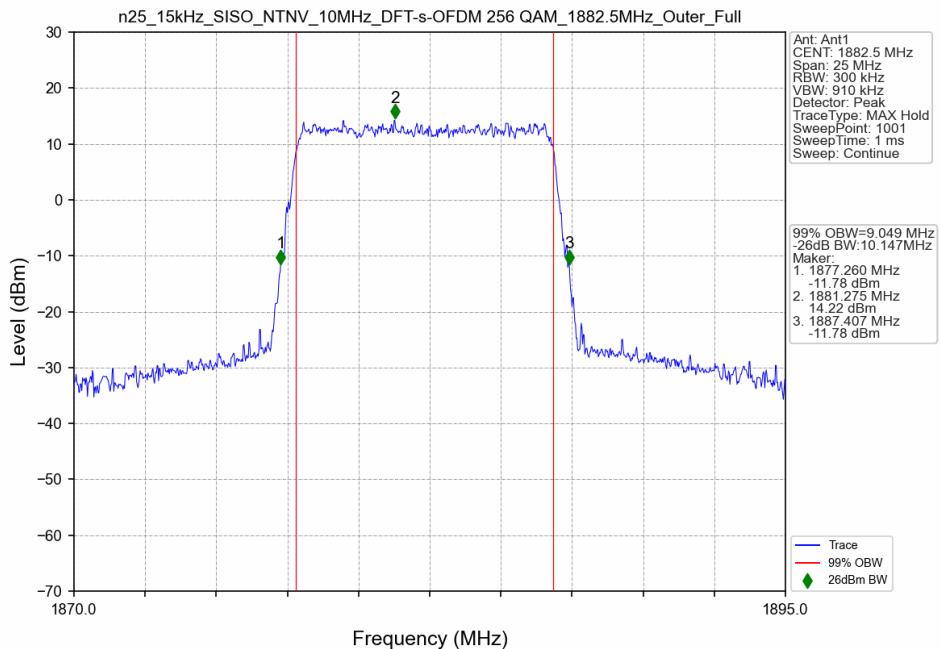
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n25_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_1855MHz_Outer_Full



n25_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_1882.5MHz_Outer_Full



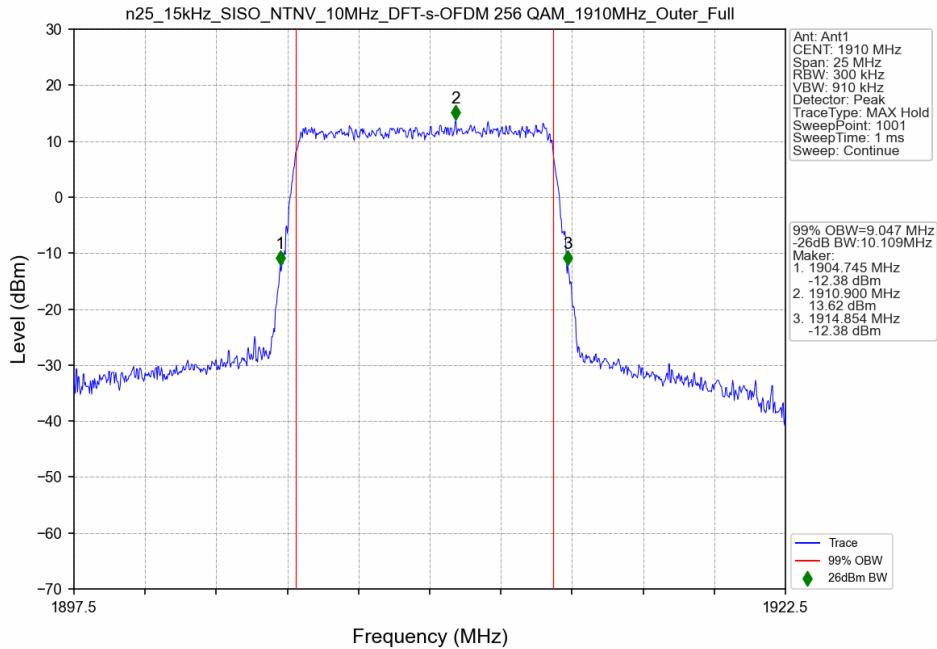
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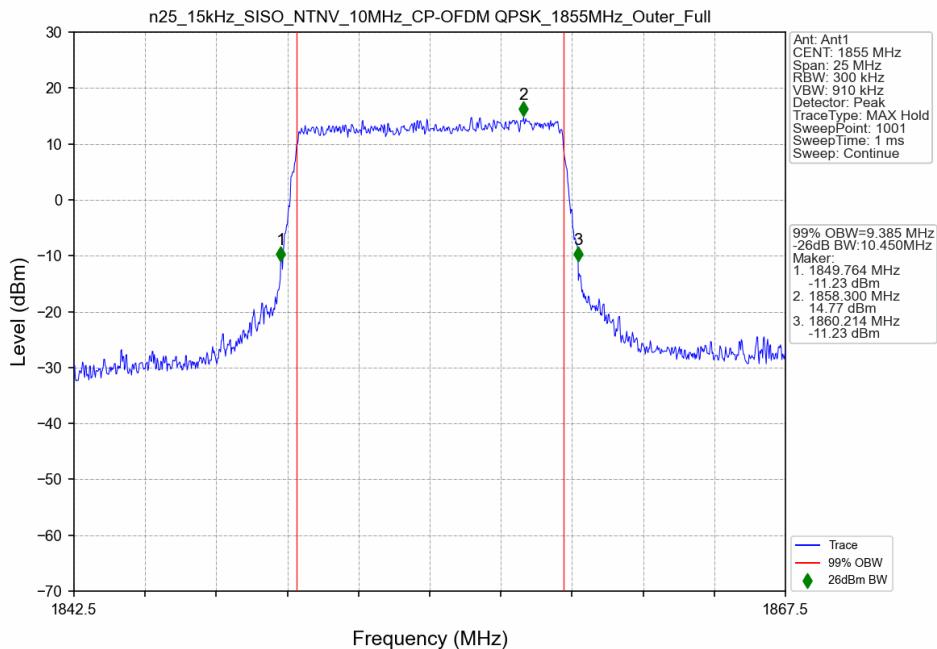
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n25_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_1910MHz_Outer_Full



n25_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1855MHz_Outer_Full



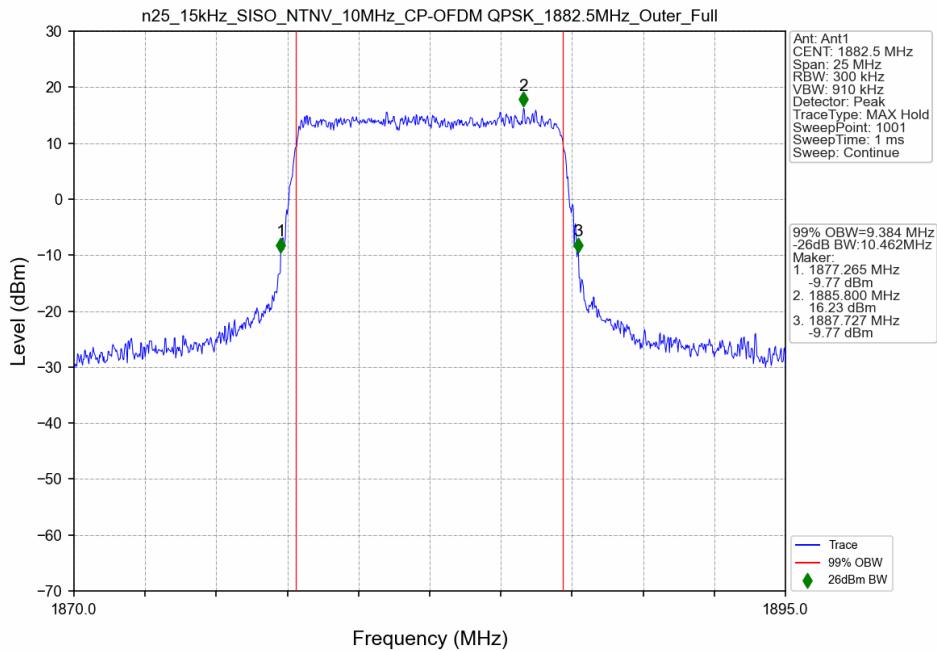
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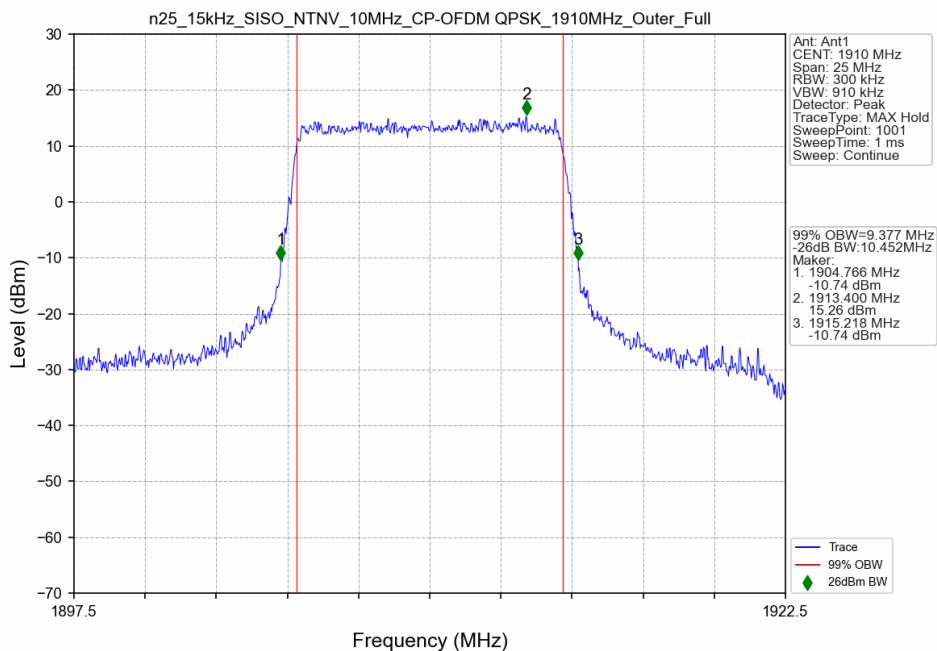
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n25_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1882.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_1910MHz_Outer_Full



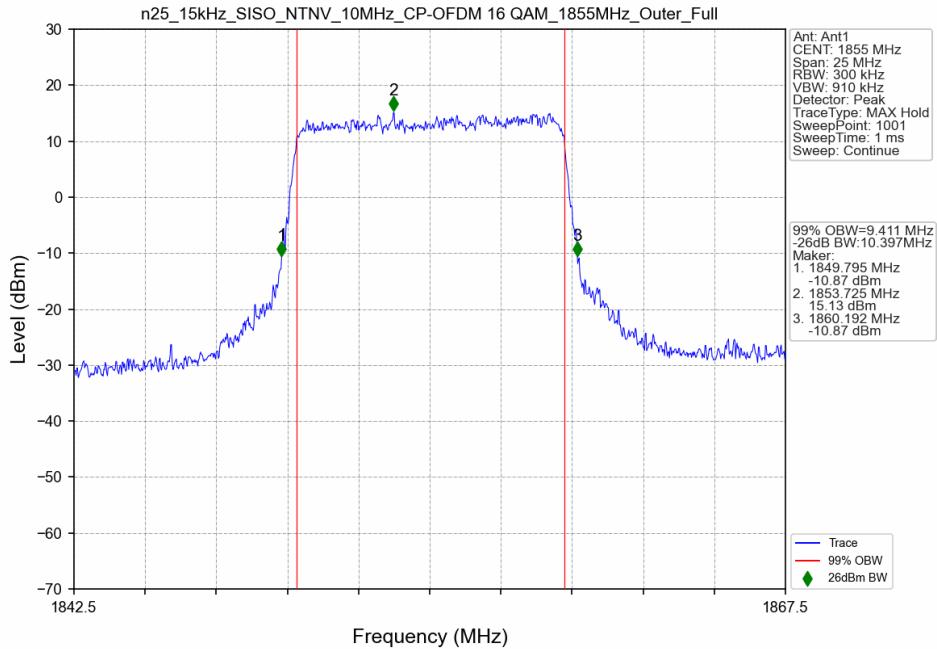
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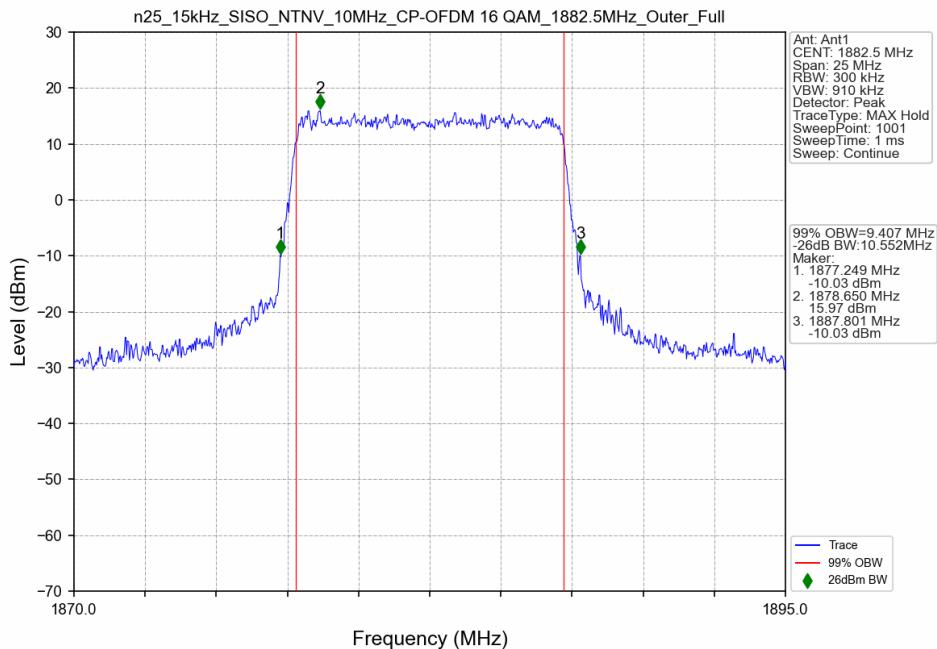
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n25_15kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_1855MHz_Outer_Full



n25_15kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_1882.5MHz_Outer_Full



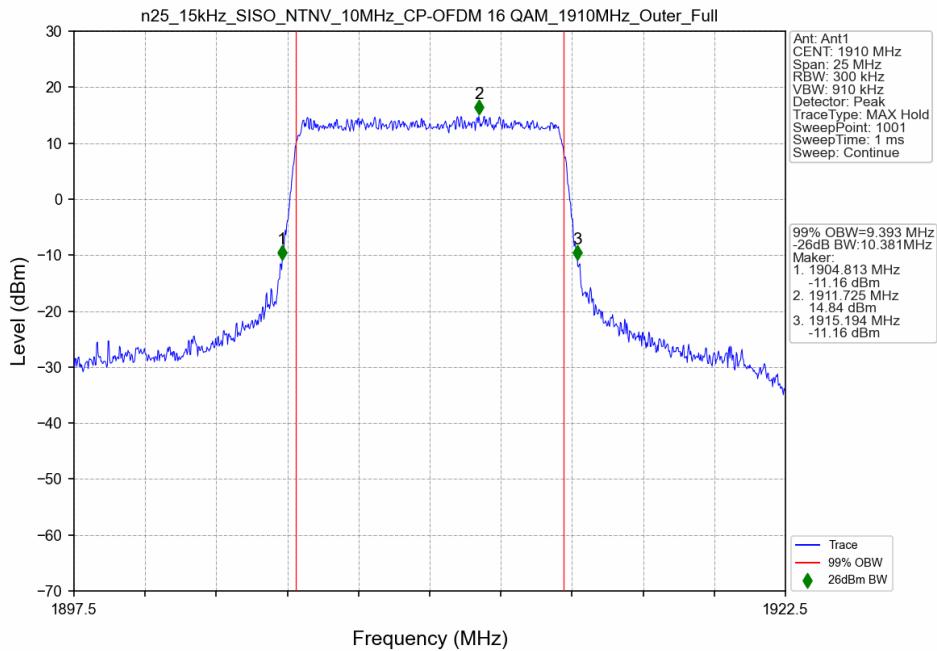
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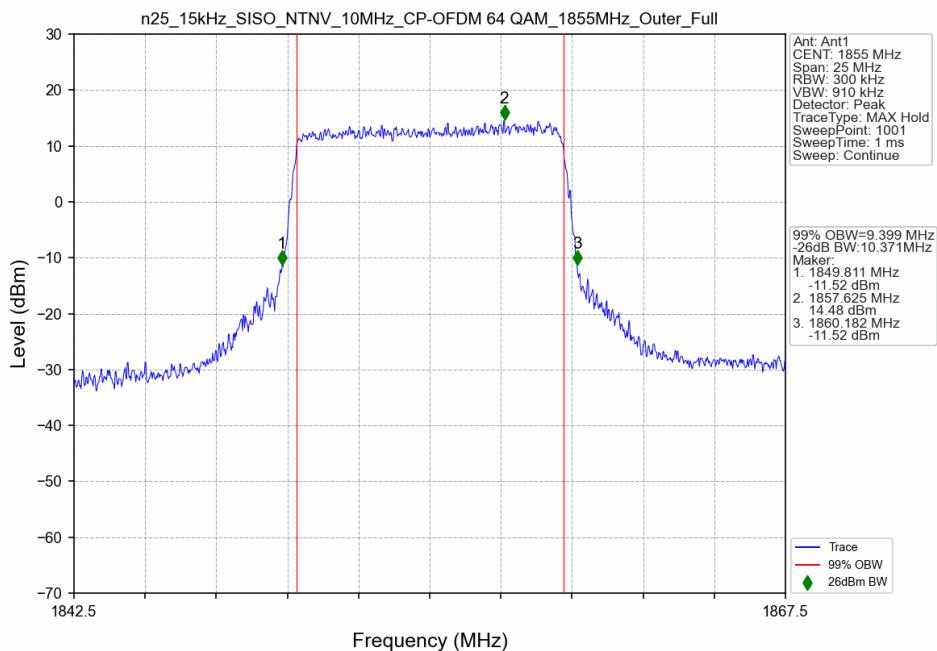
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n25_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_1855MHz_Outer_Full

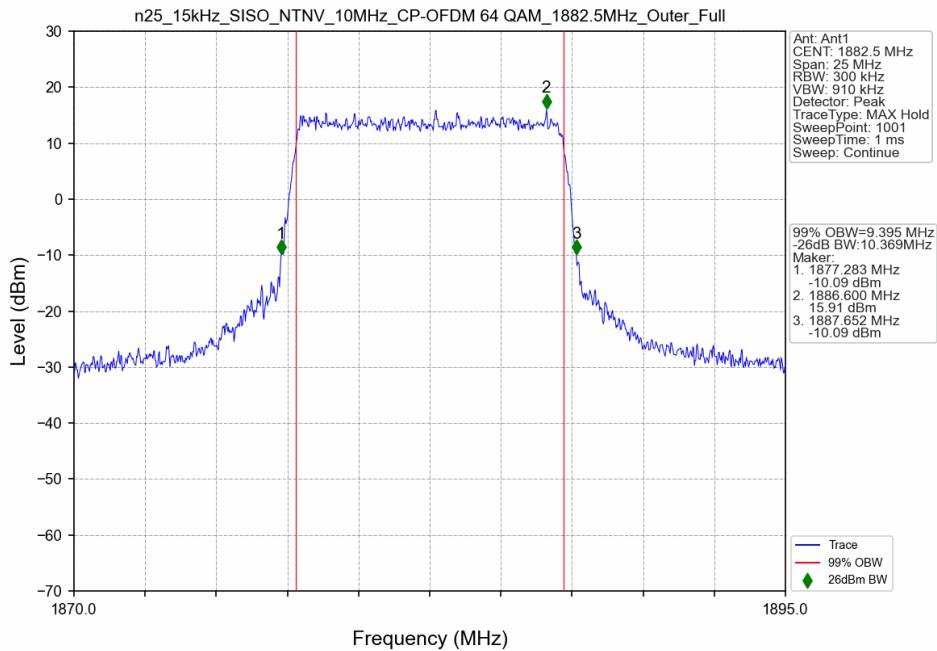


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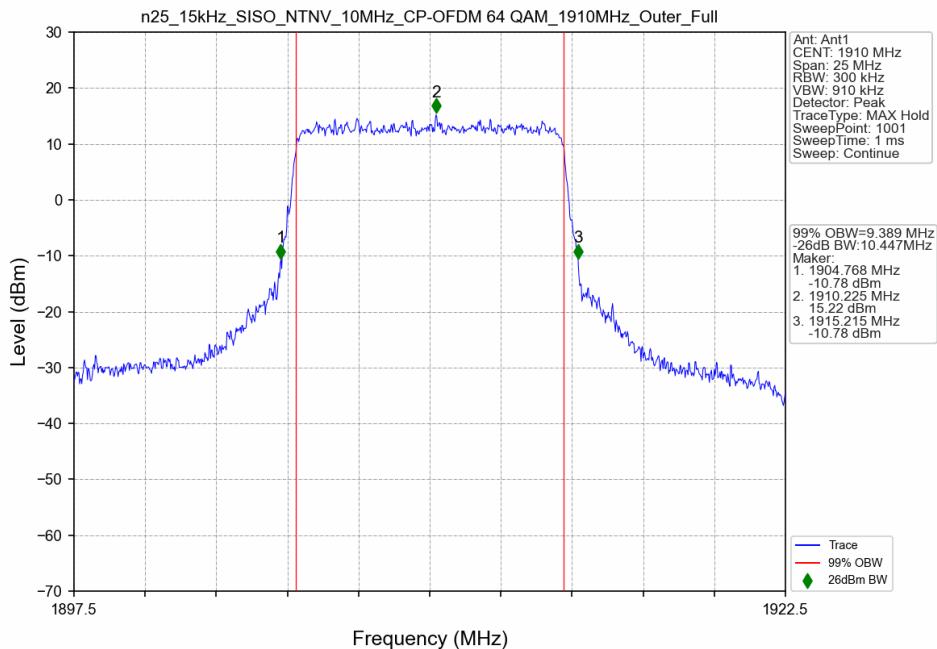
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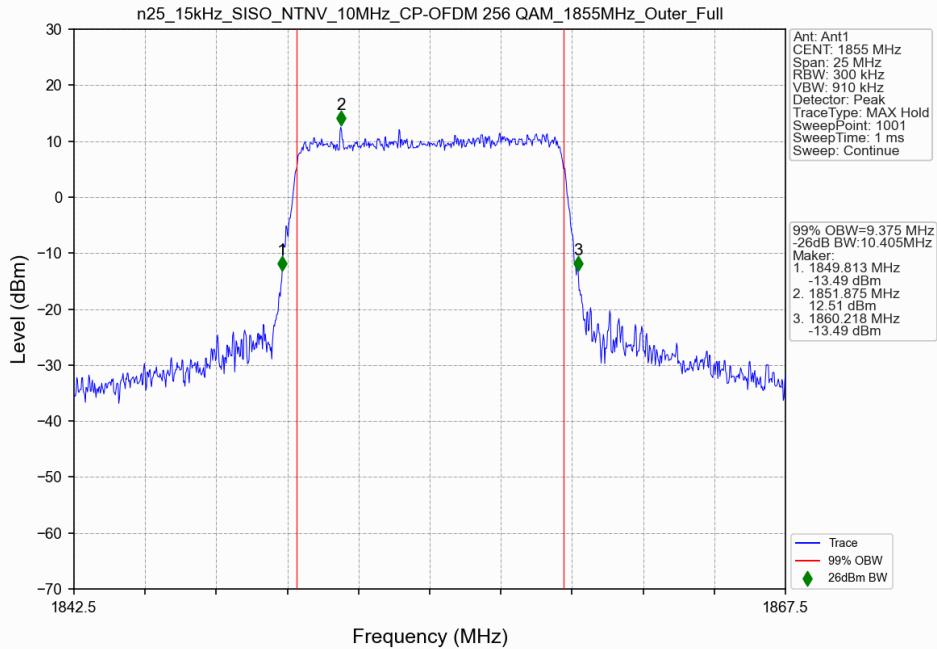
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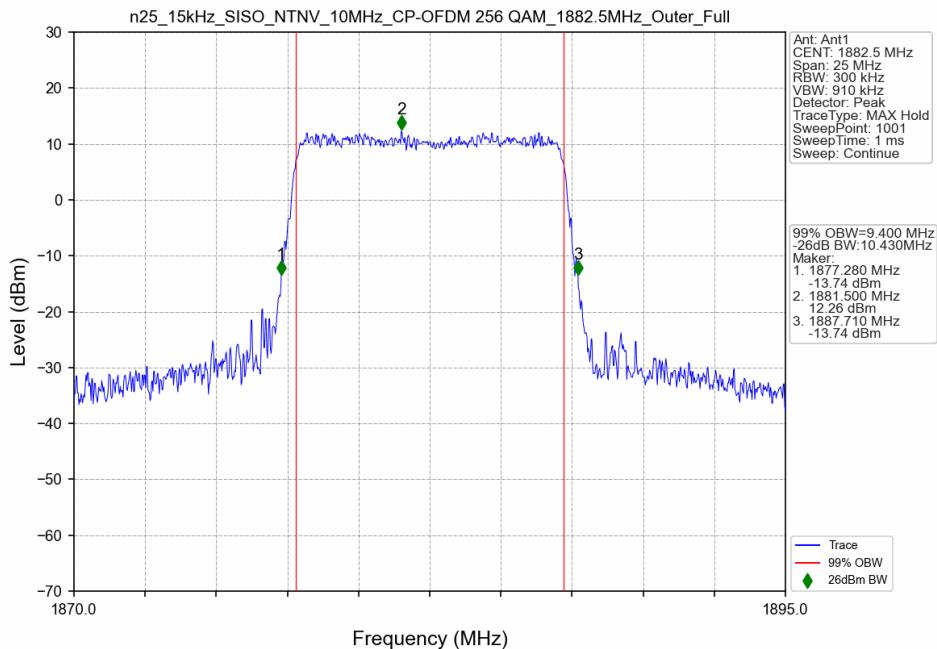
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n25_15kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_1882.5MHz_Outer_Full

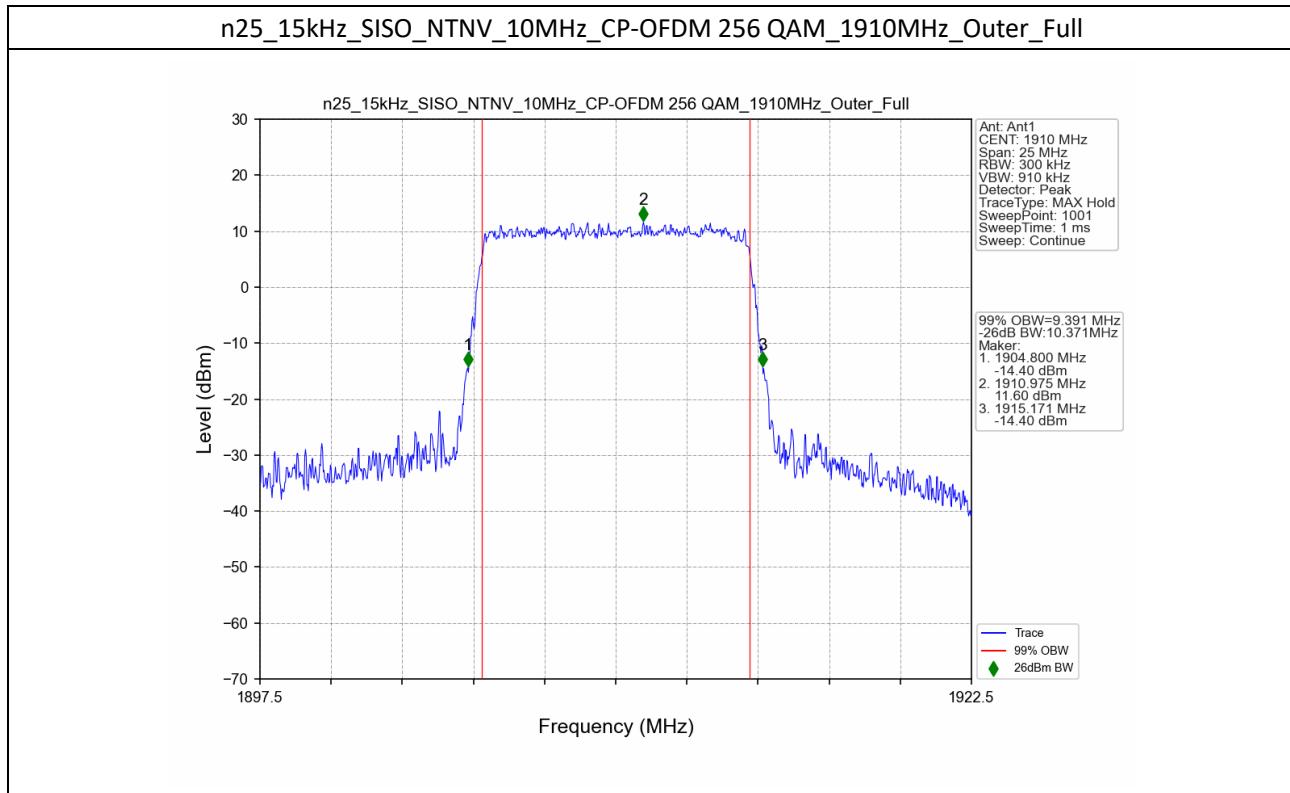


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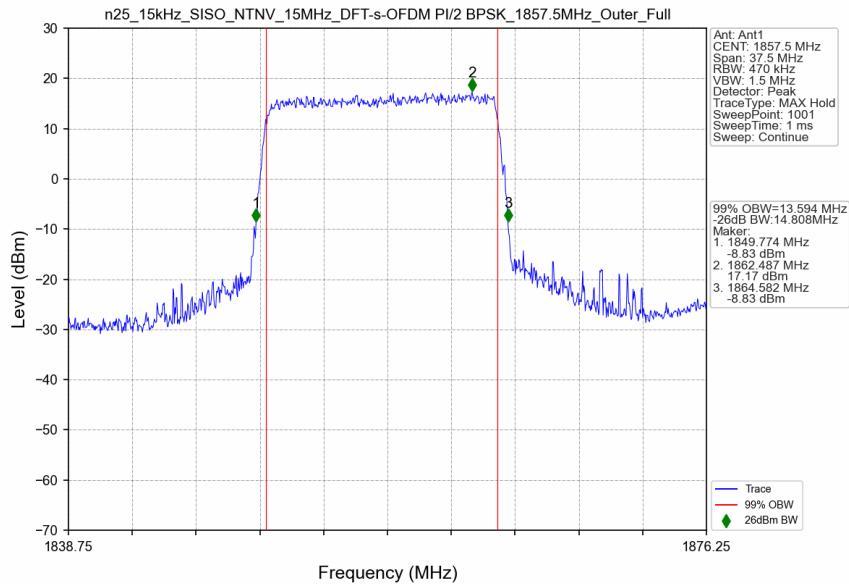
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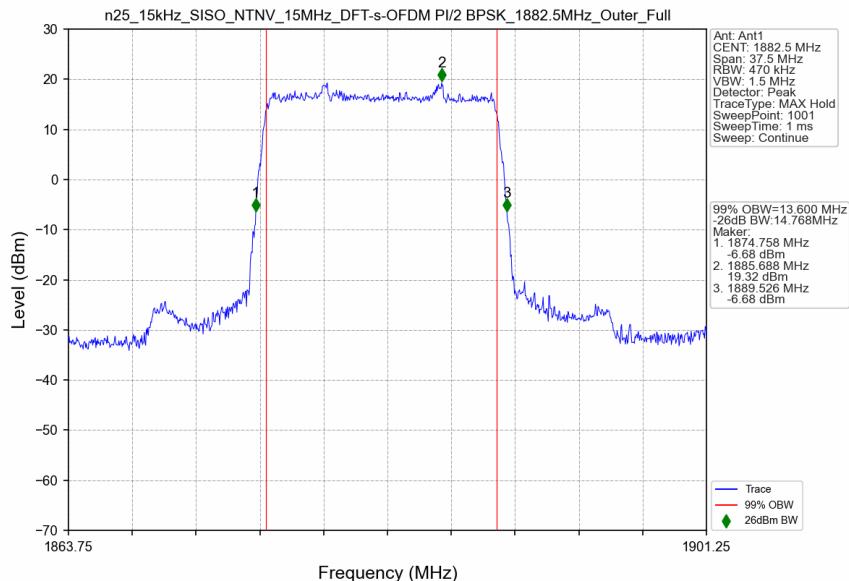
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3.2.3 15k_SISO_15MHz_NTNV

n25_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1857.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1882.5MHz_Outer_Full

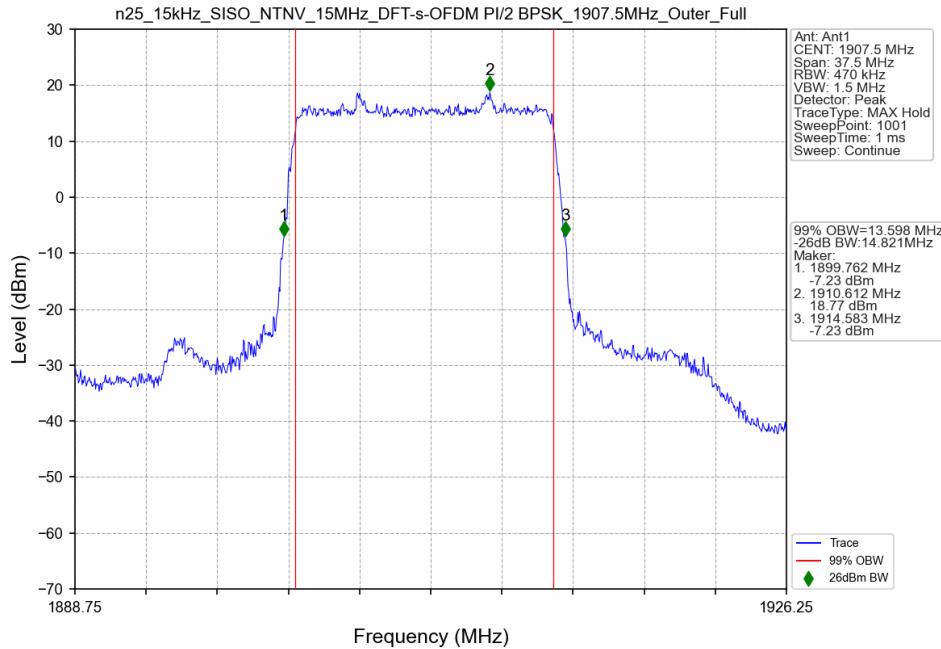


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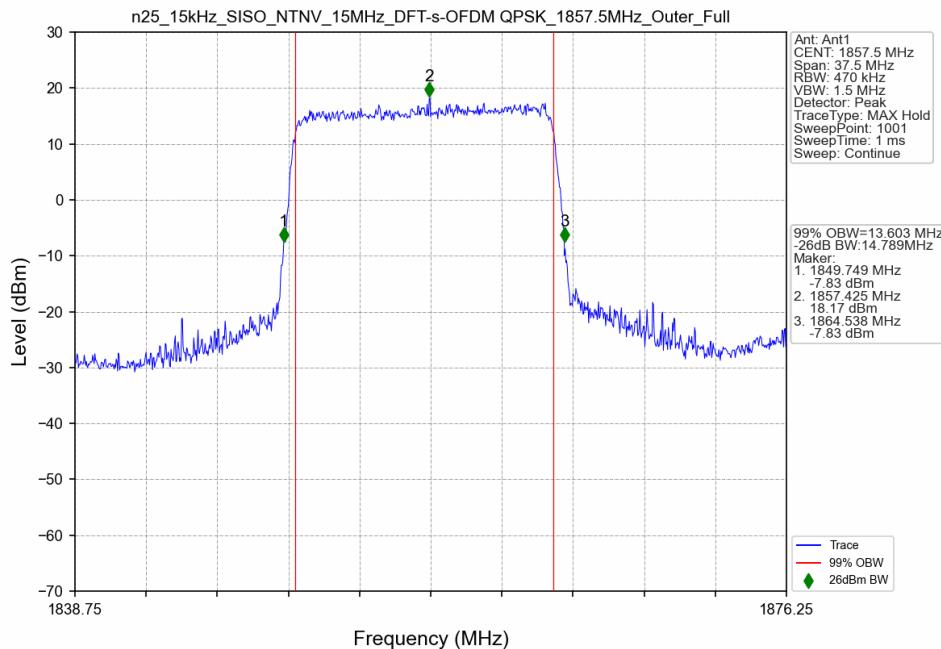
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n25_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1907.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1857.5MHz_Outer_Full



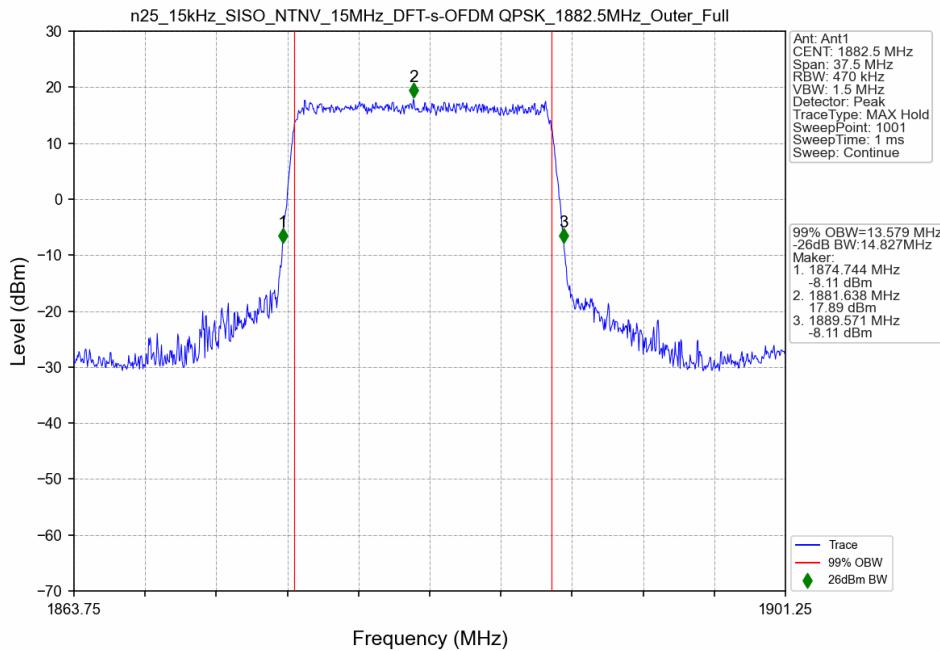
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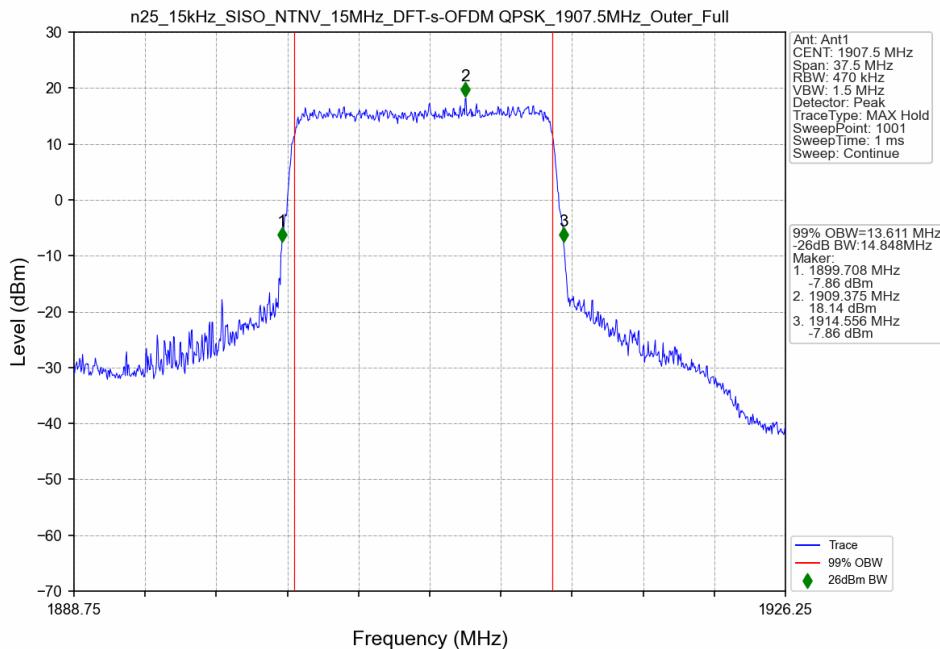
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n25_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1882.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1907.5MHz_Outer_Full



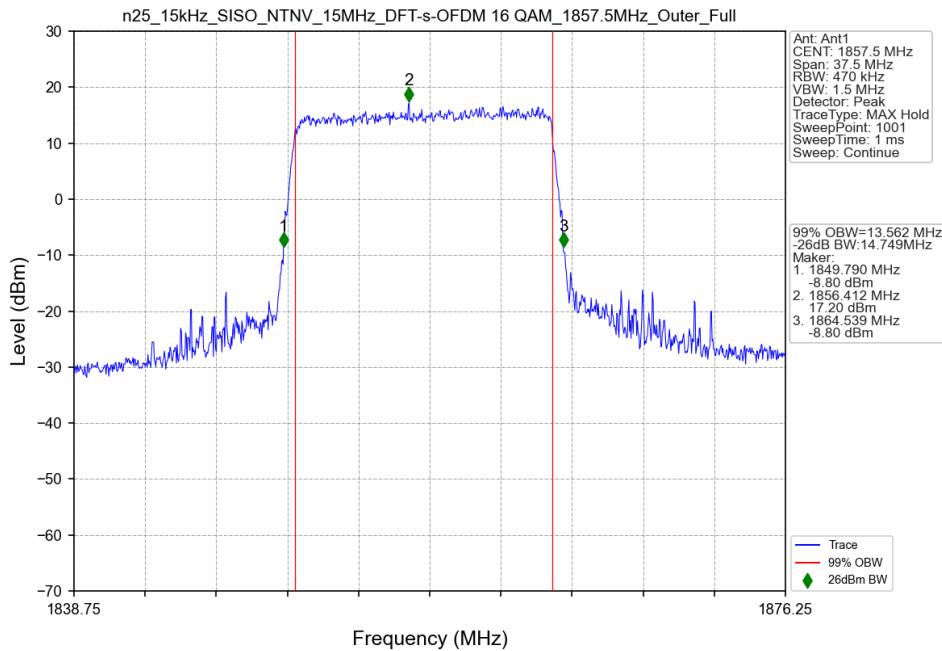
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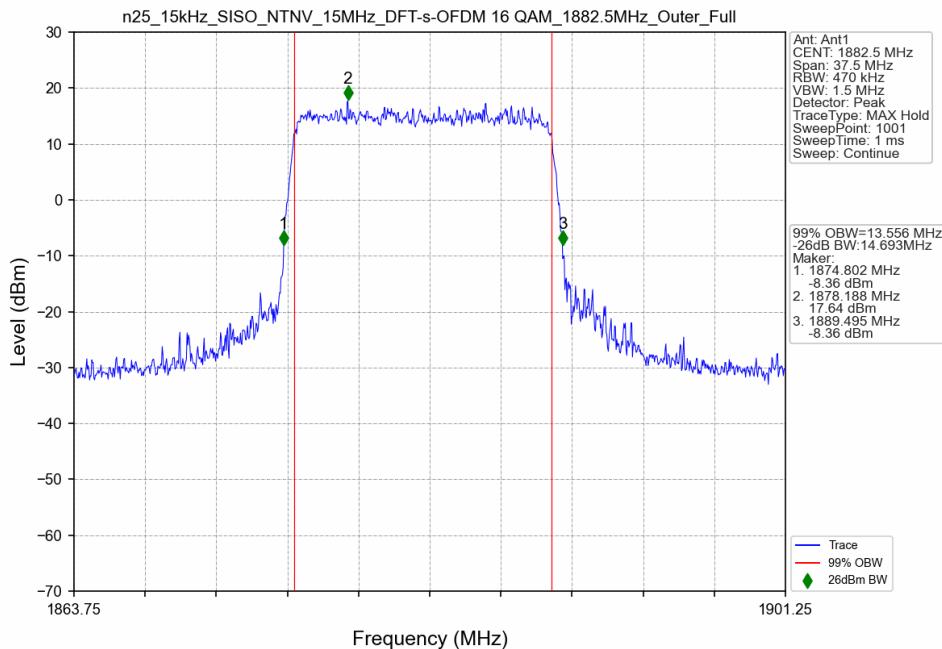
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n25_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_1857.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_1882.5MHz_Outer_Full



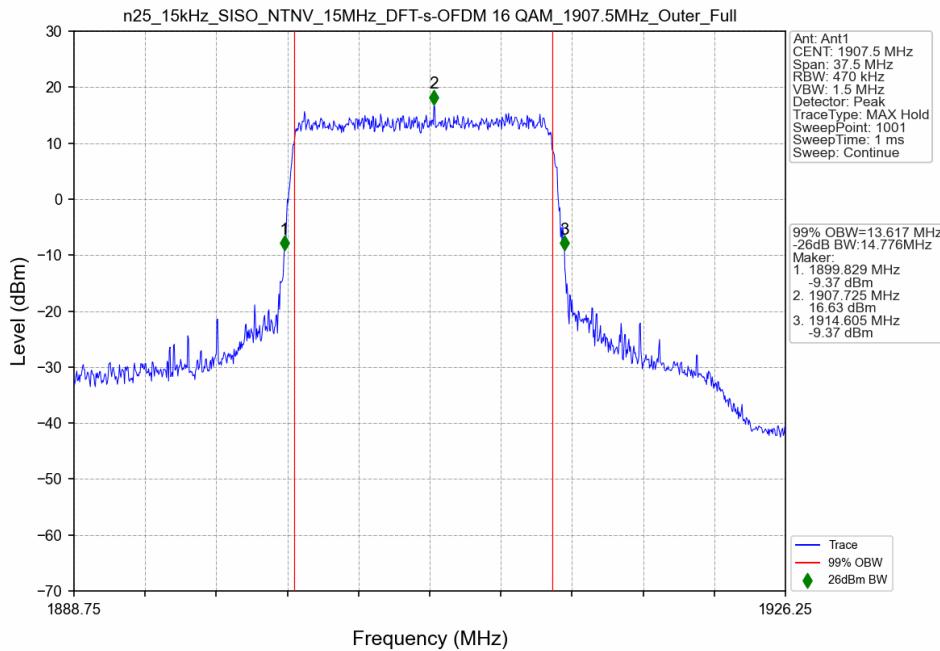
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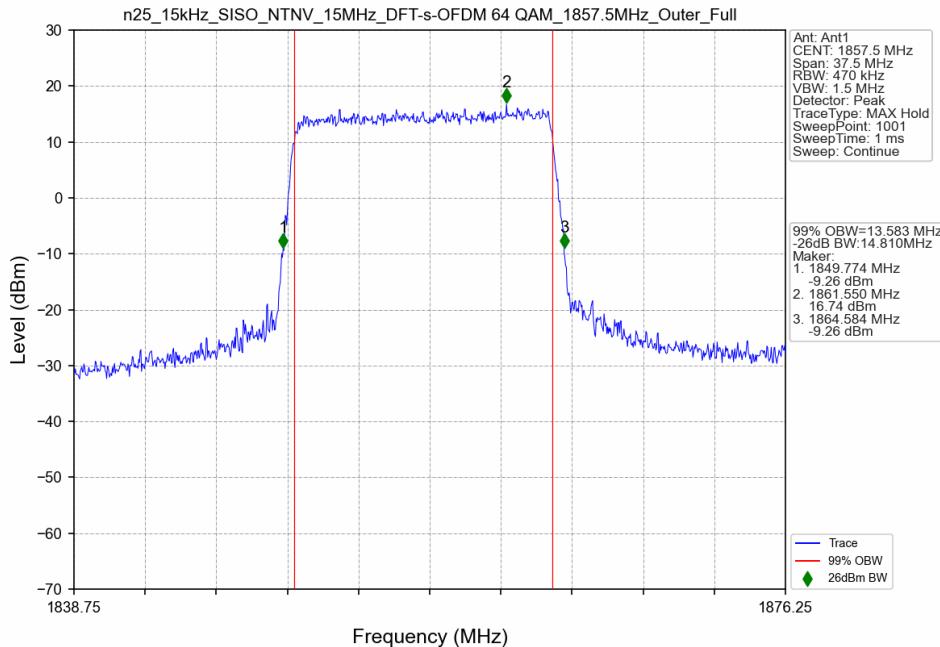
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n25_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 16 QAM_1907.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_1857.5MHz_Outer_Full

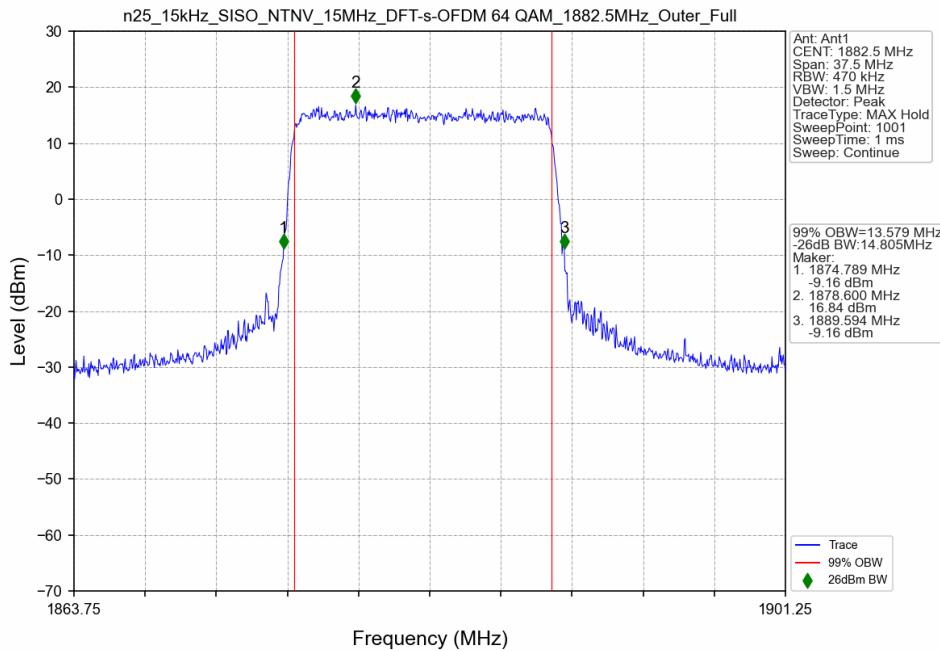


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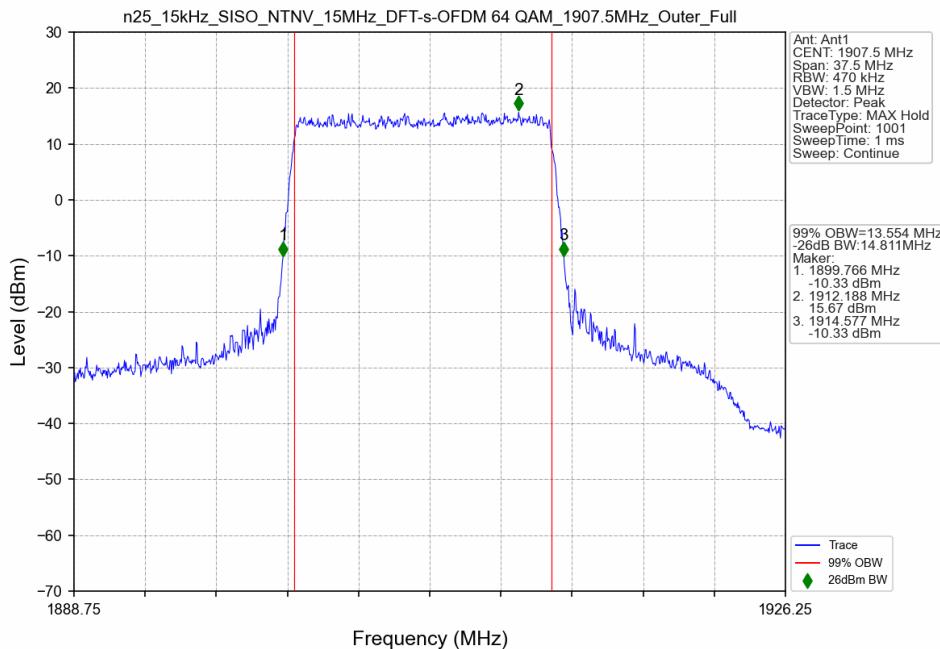
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n25_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_1882.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 64 QAM_1907.5MHz_Outer_Full



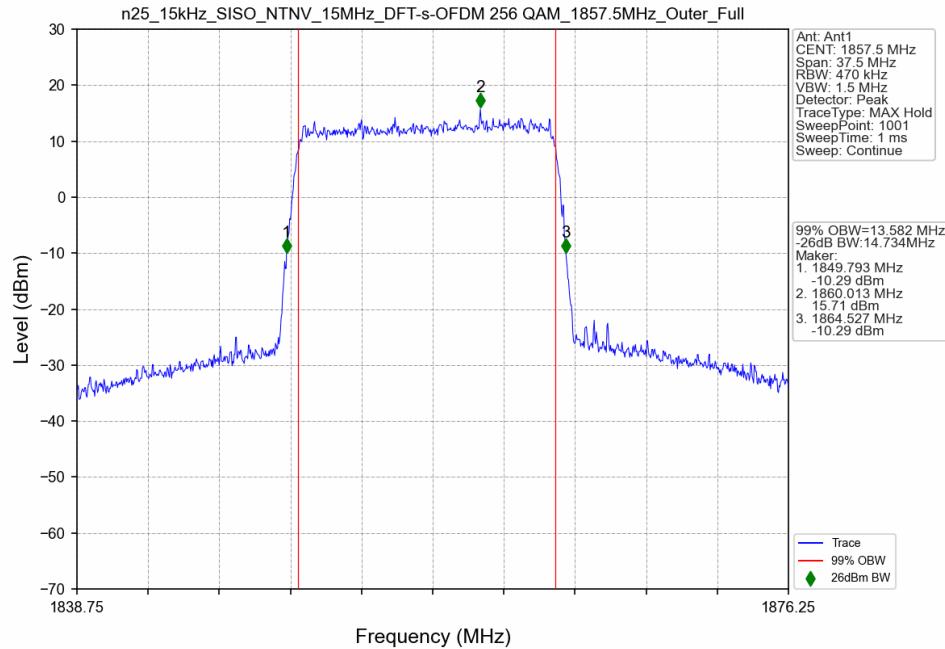
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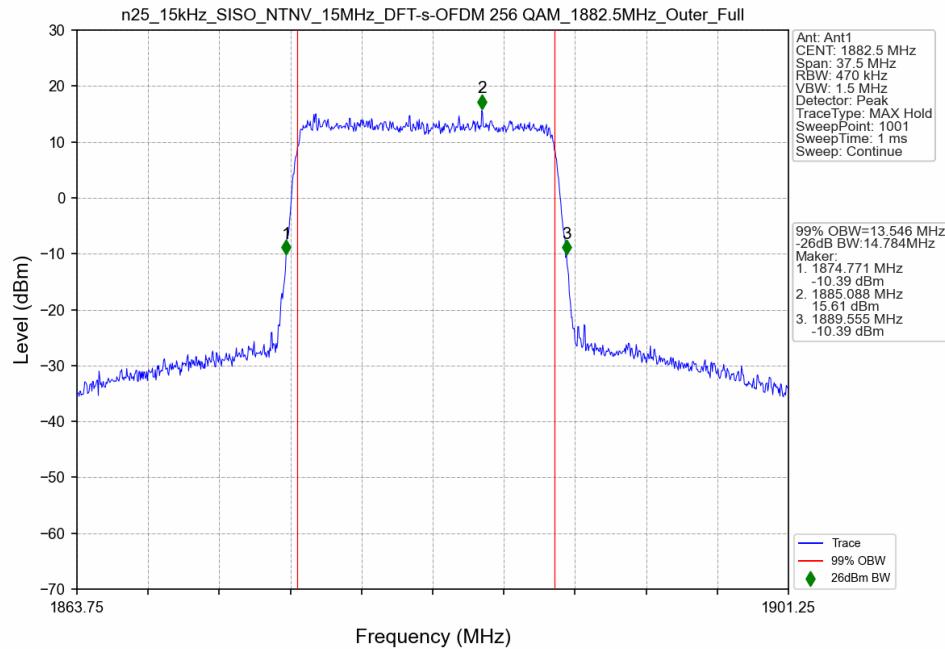
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n25_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_1857.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_1882.5MHz_Outer_Full



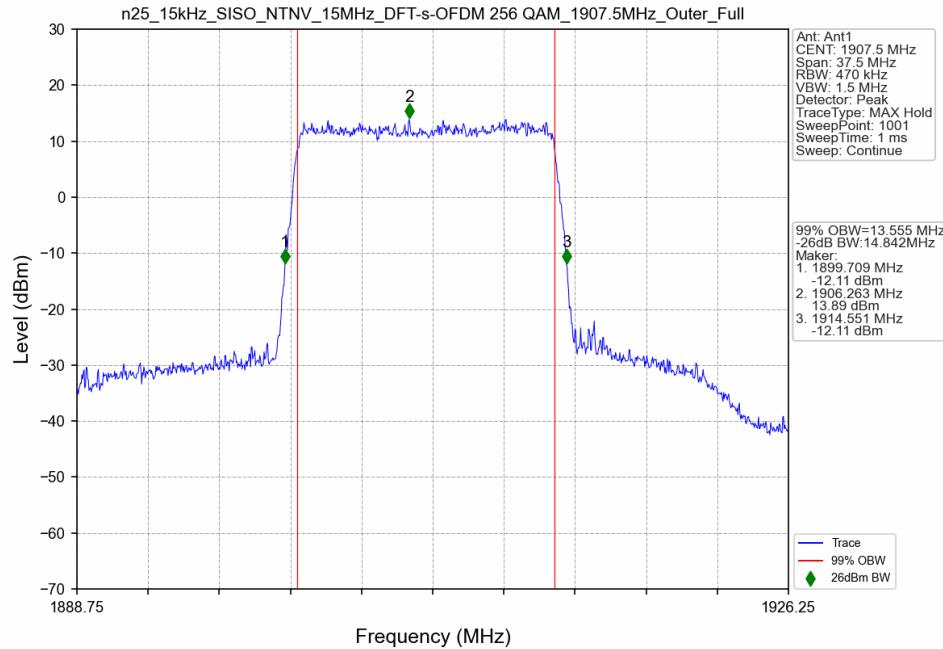
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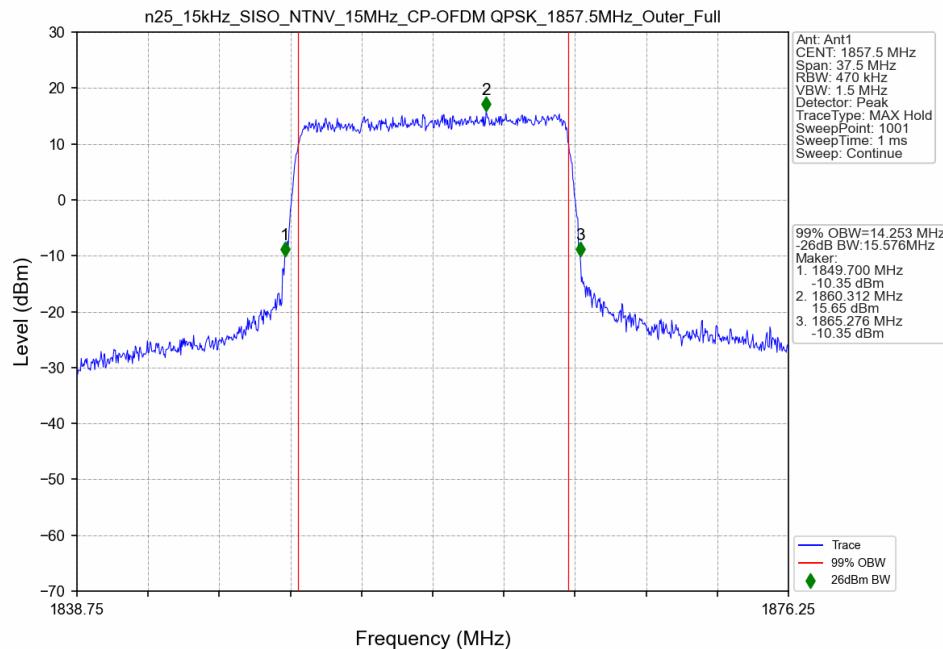
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n25_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_1907.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1857.5MHz_Outer_Full



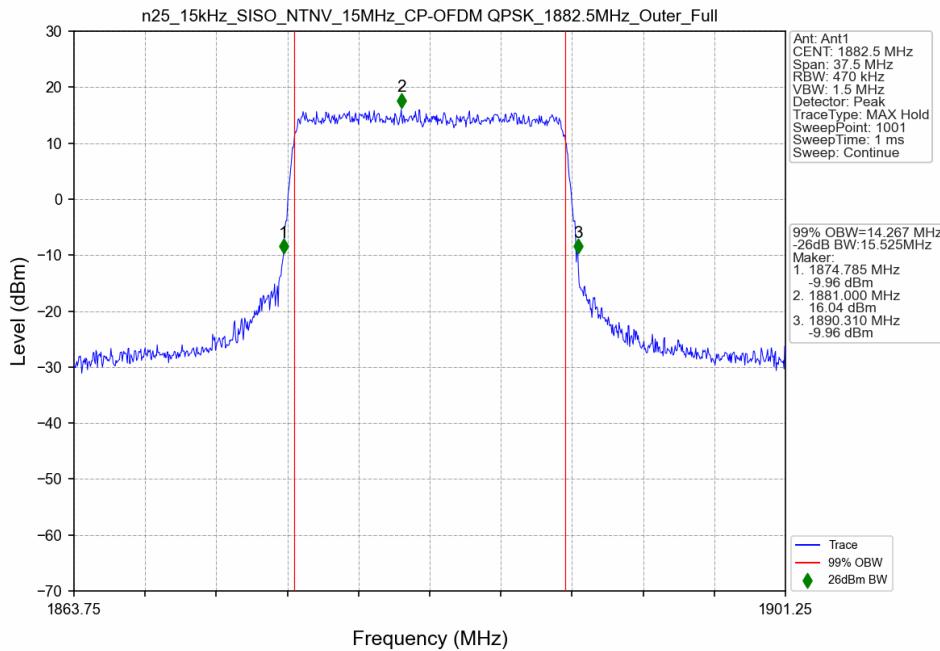
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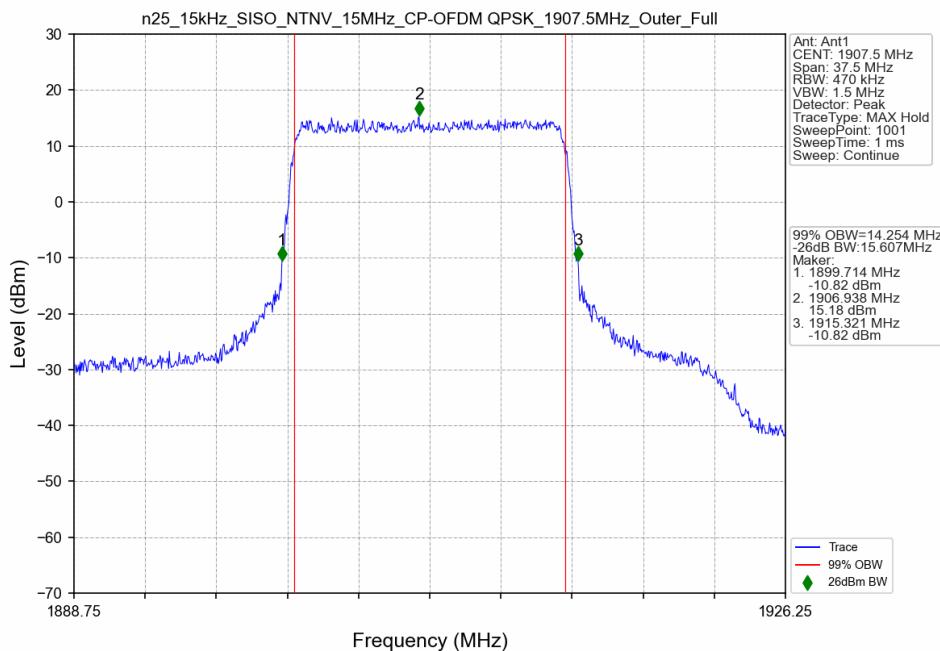
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n25_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1882.5MHz_Outer_Full



n25_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1907.5MHz_Outer_Full



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