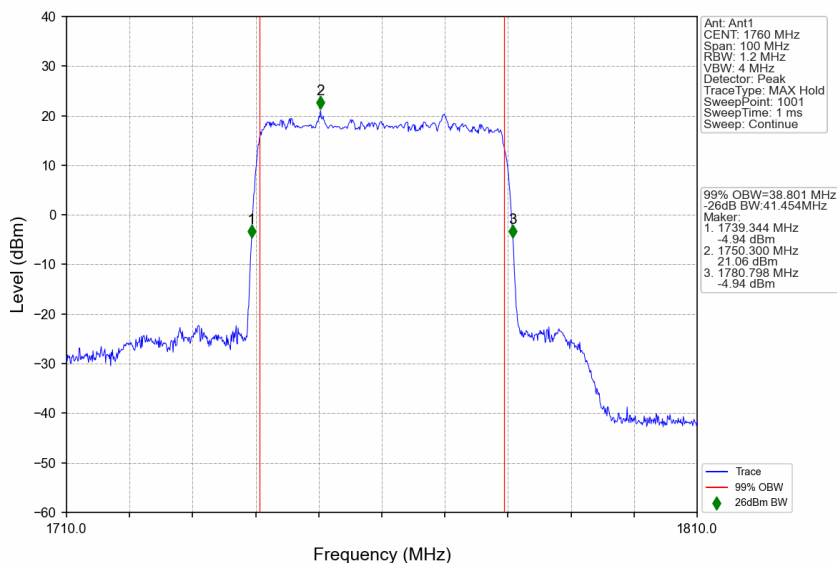
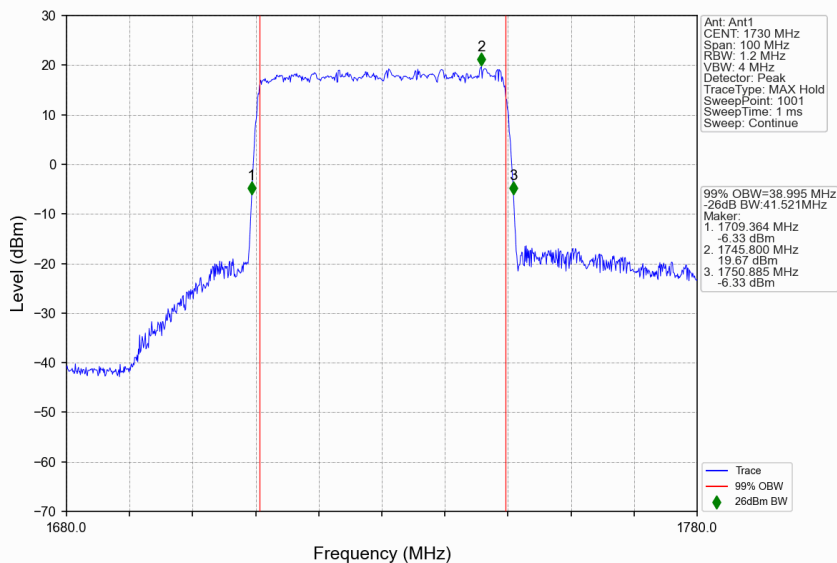


n66_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_1760MHz_Outer_Full



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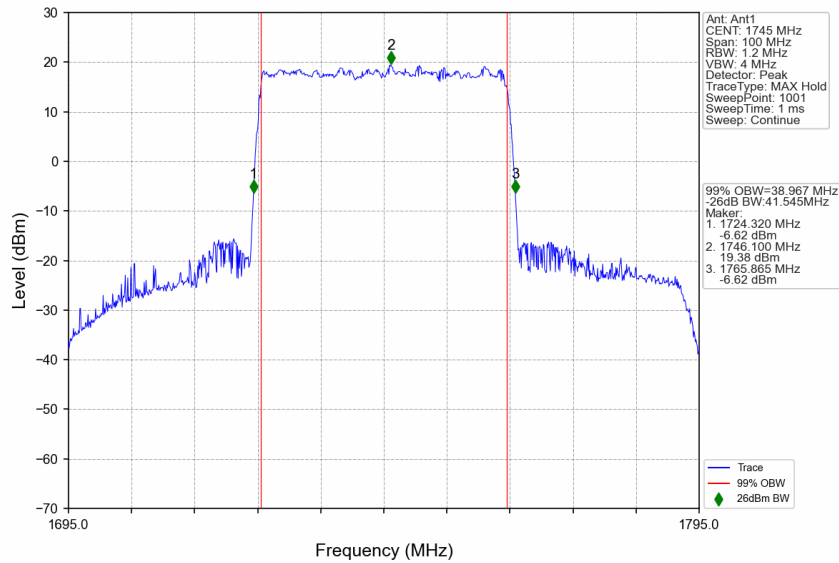
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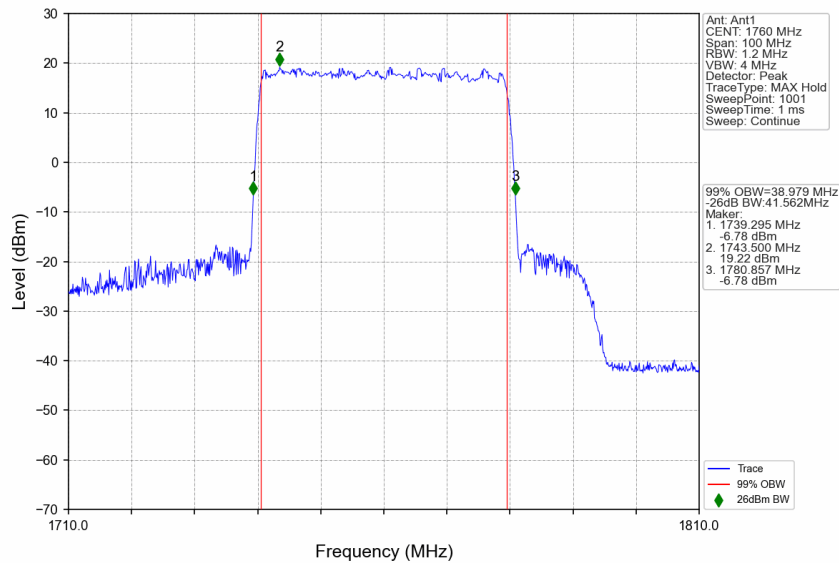
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n66_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_QPSK_1745MHz_Outer_Full



n66_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_QPSK_1760MHz_Outer_Full

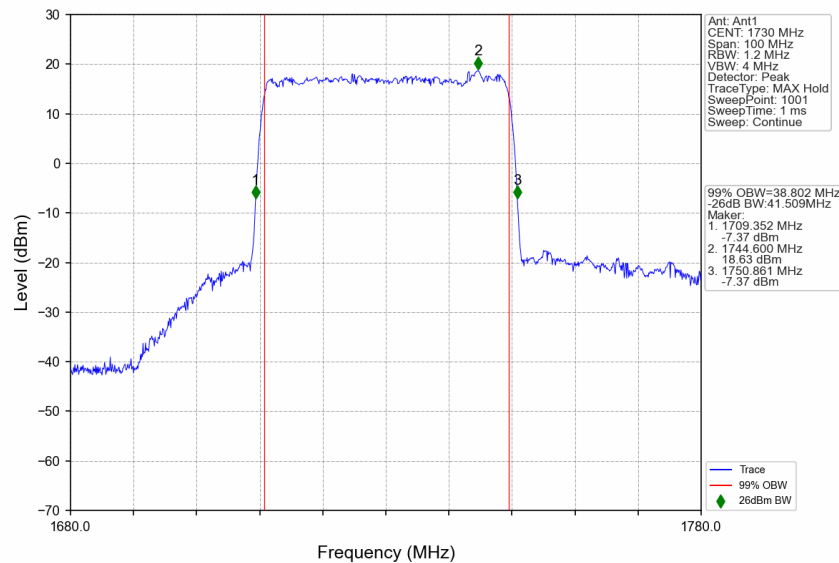


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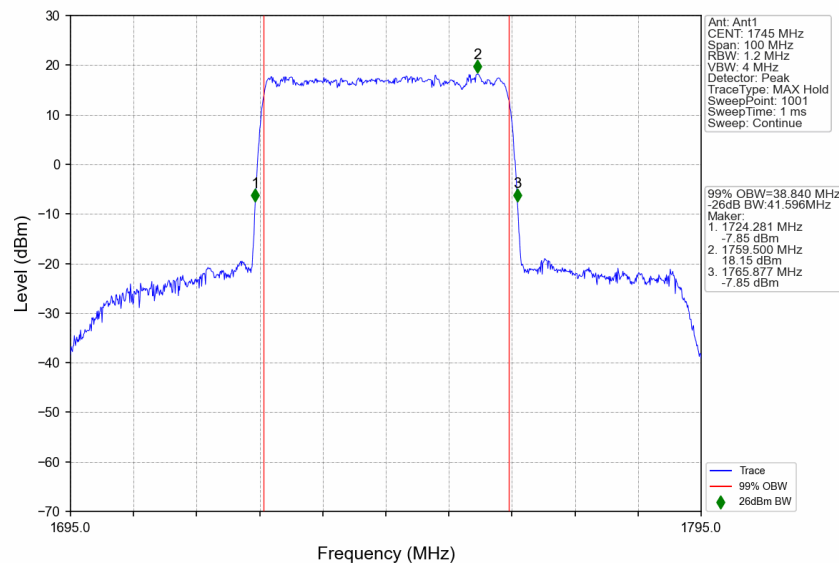
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n66_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_1730MHz_Outer_Full



n66_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_1745MHz_Outer_Full

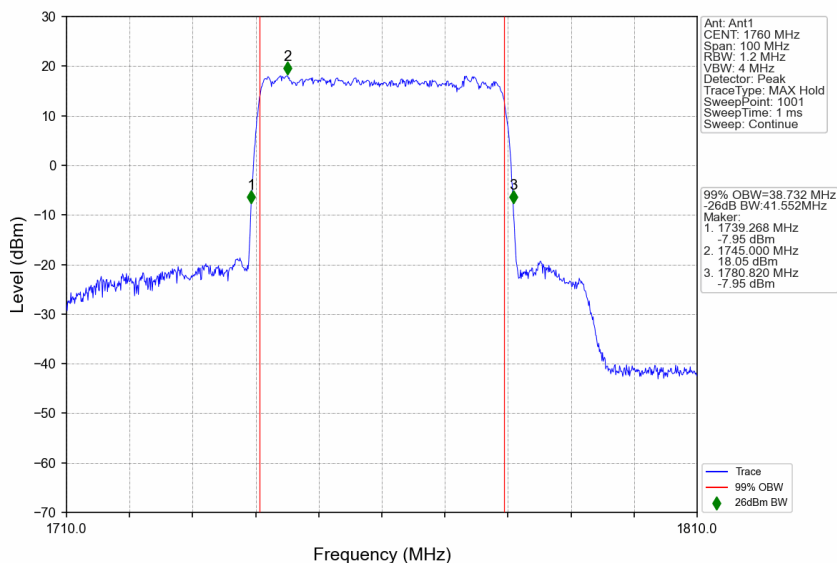


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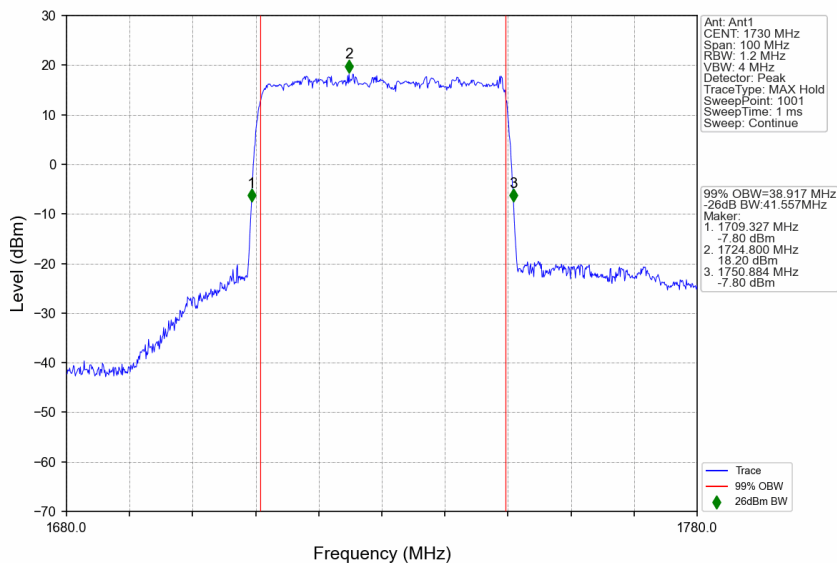
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n66_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_1760MHz_Outer_Full



n66_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_1730MHz_Outer_Full

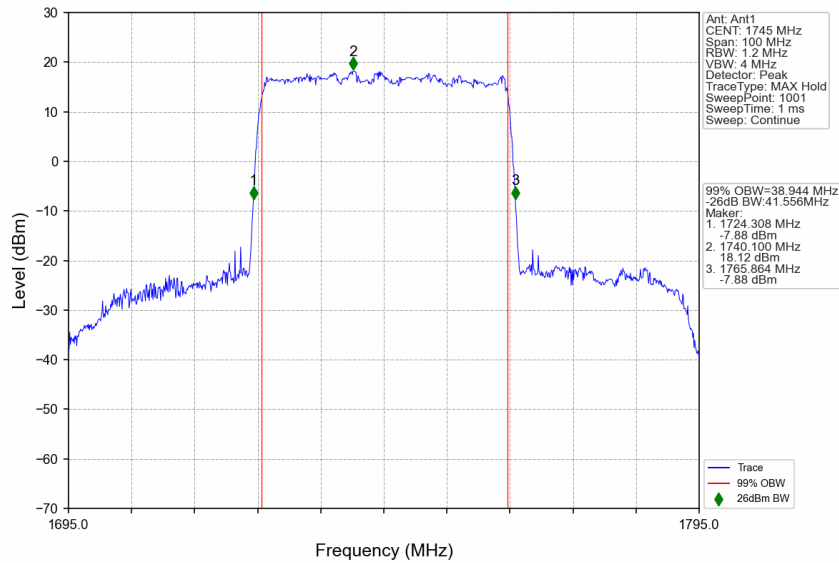


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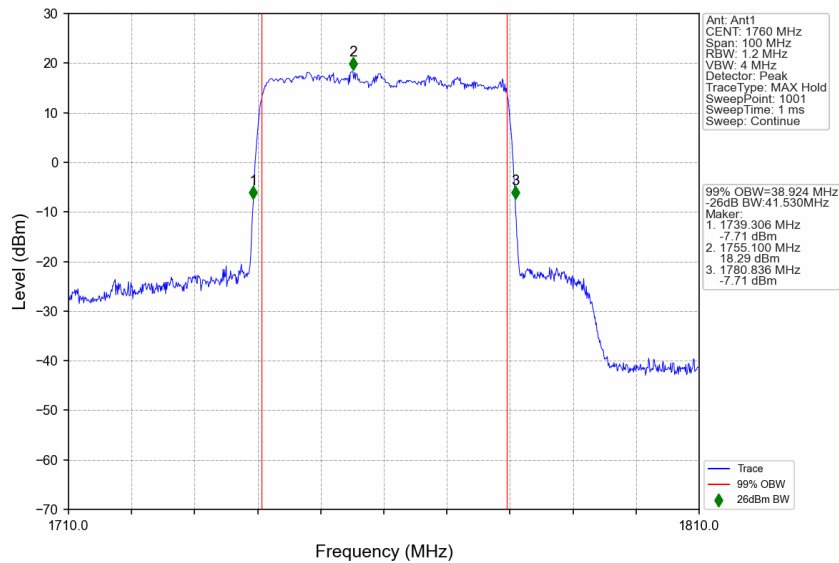
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n66_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_1745MHz_Outer_Full



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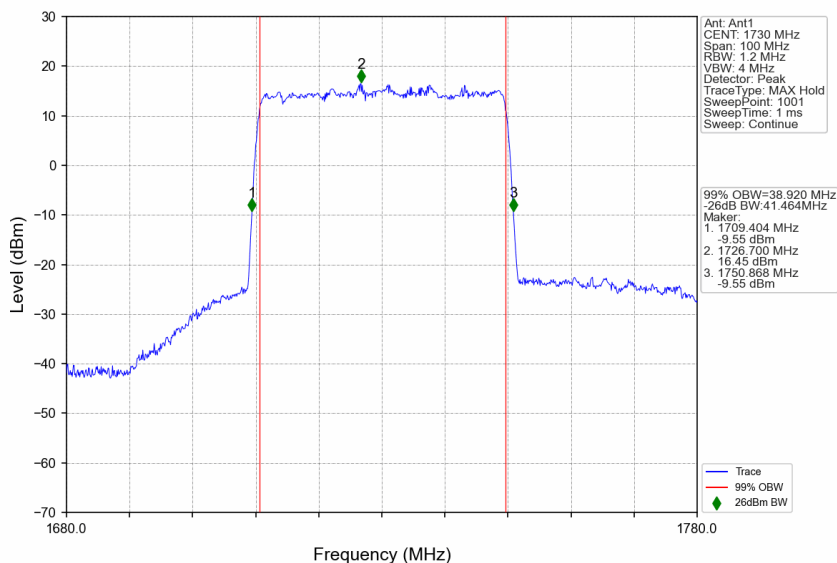


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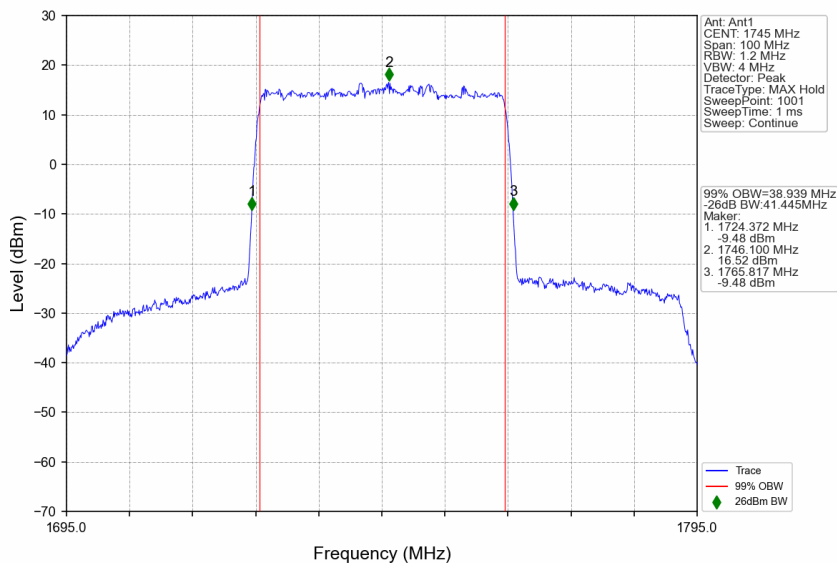
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n66_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM_1730MHz_Outer_Full



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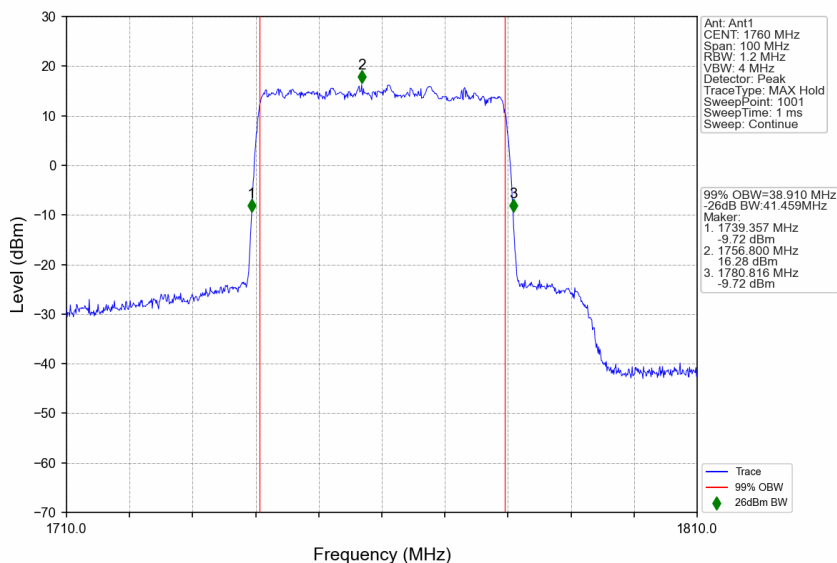


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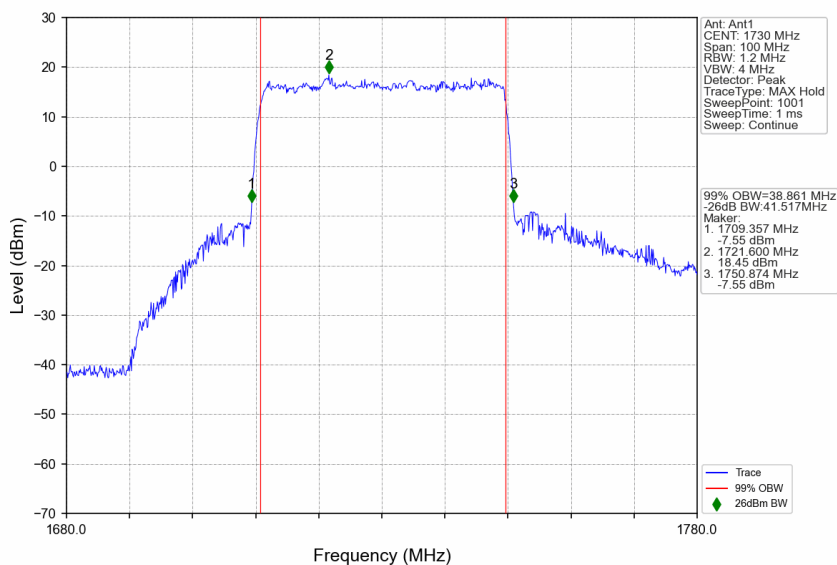
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n66_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM_1760MHz_Outer_Full



n66_15kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_1730MHz_Outer_Full



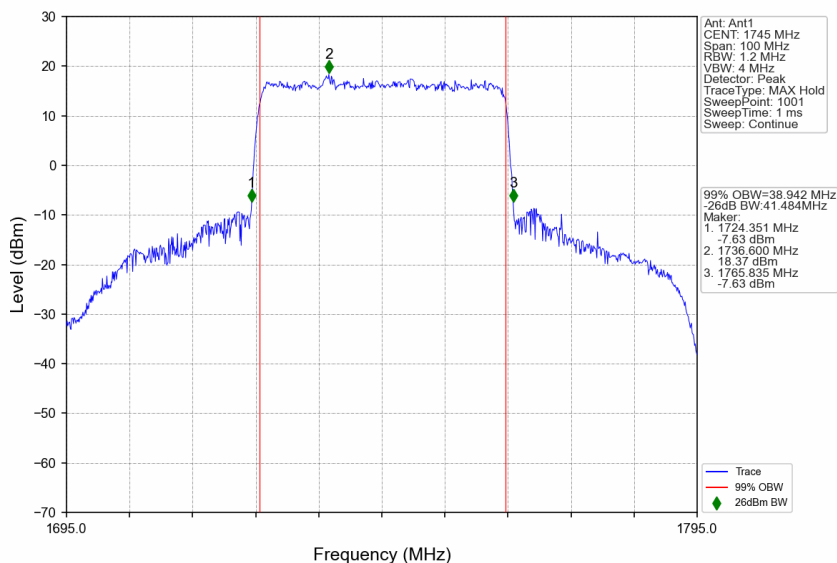
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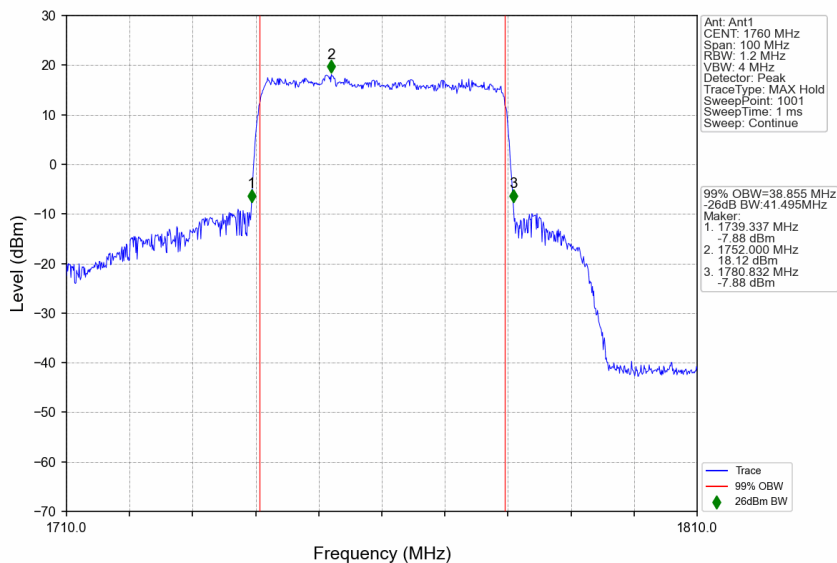
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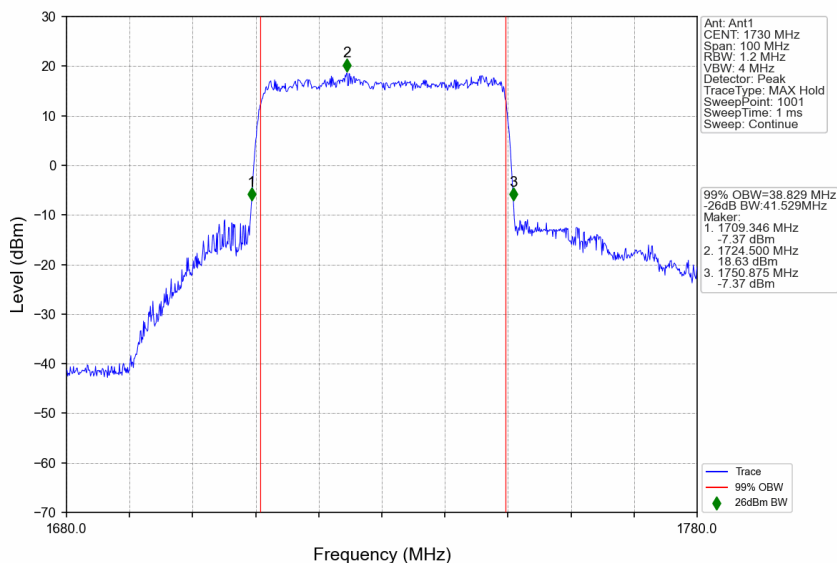


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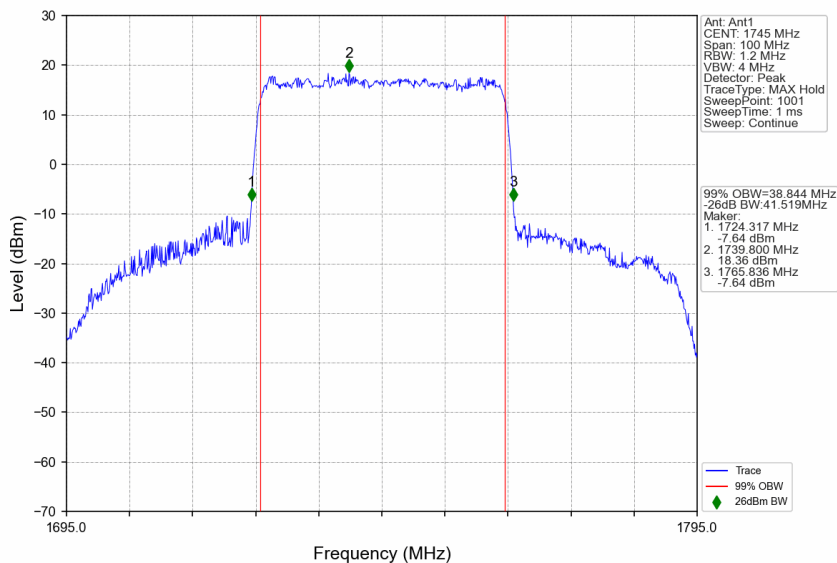
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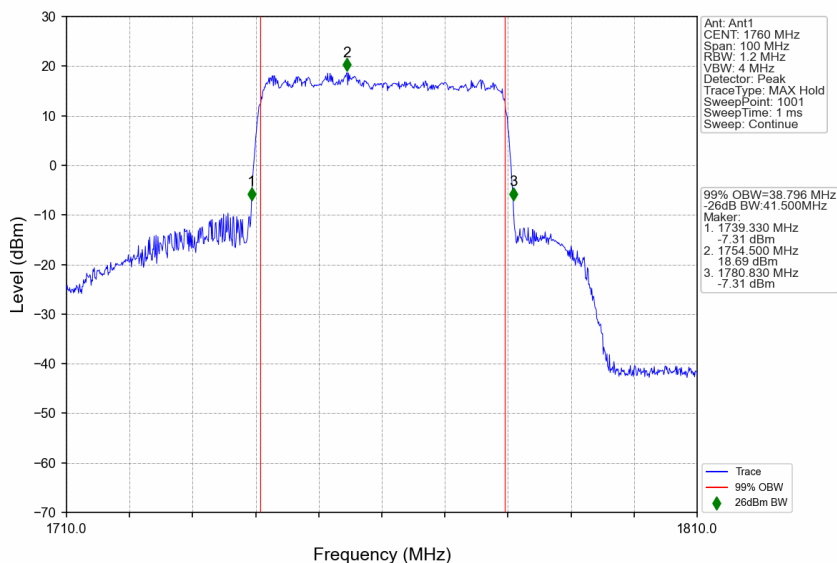
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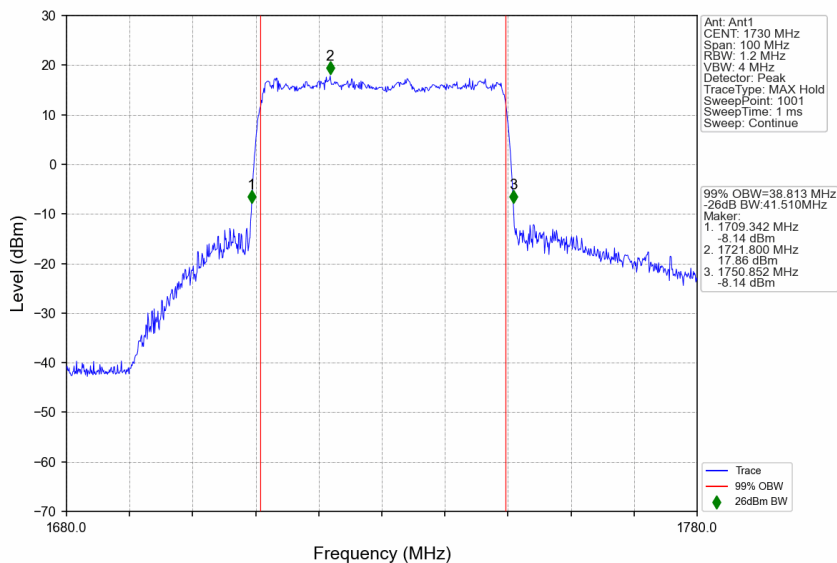
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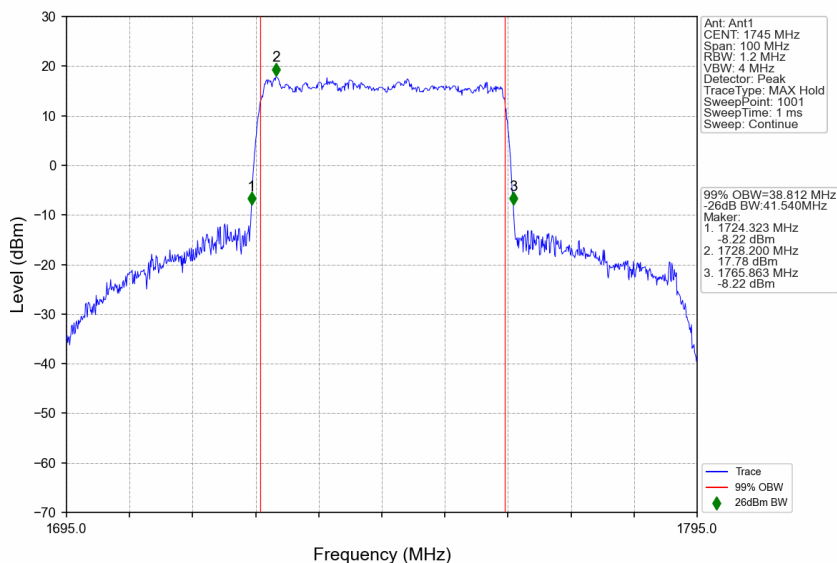


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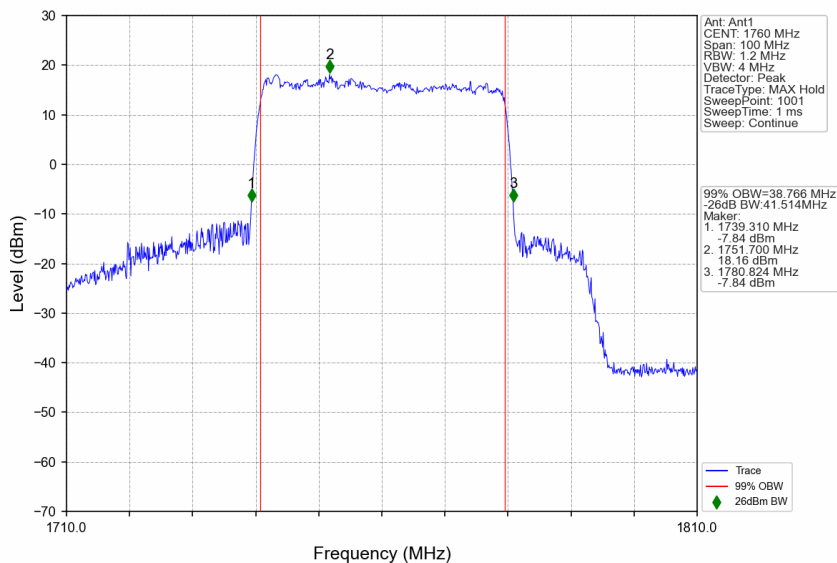
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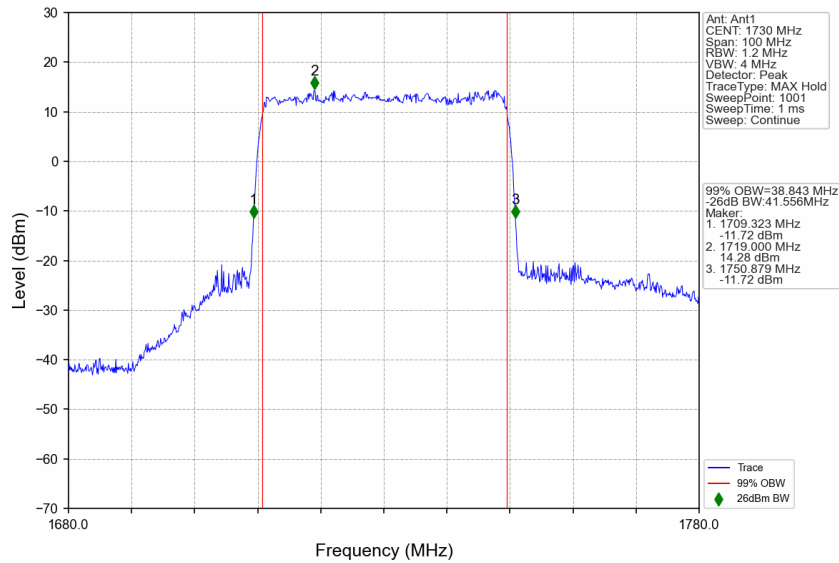
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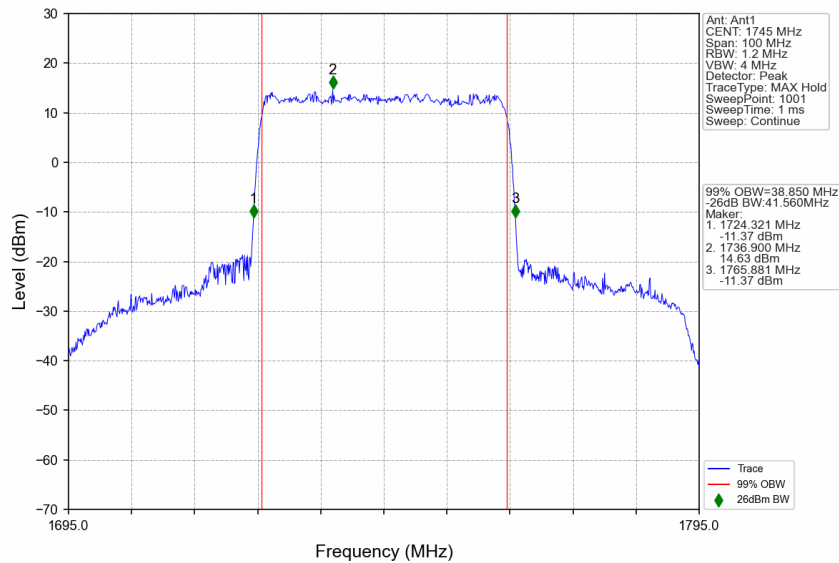
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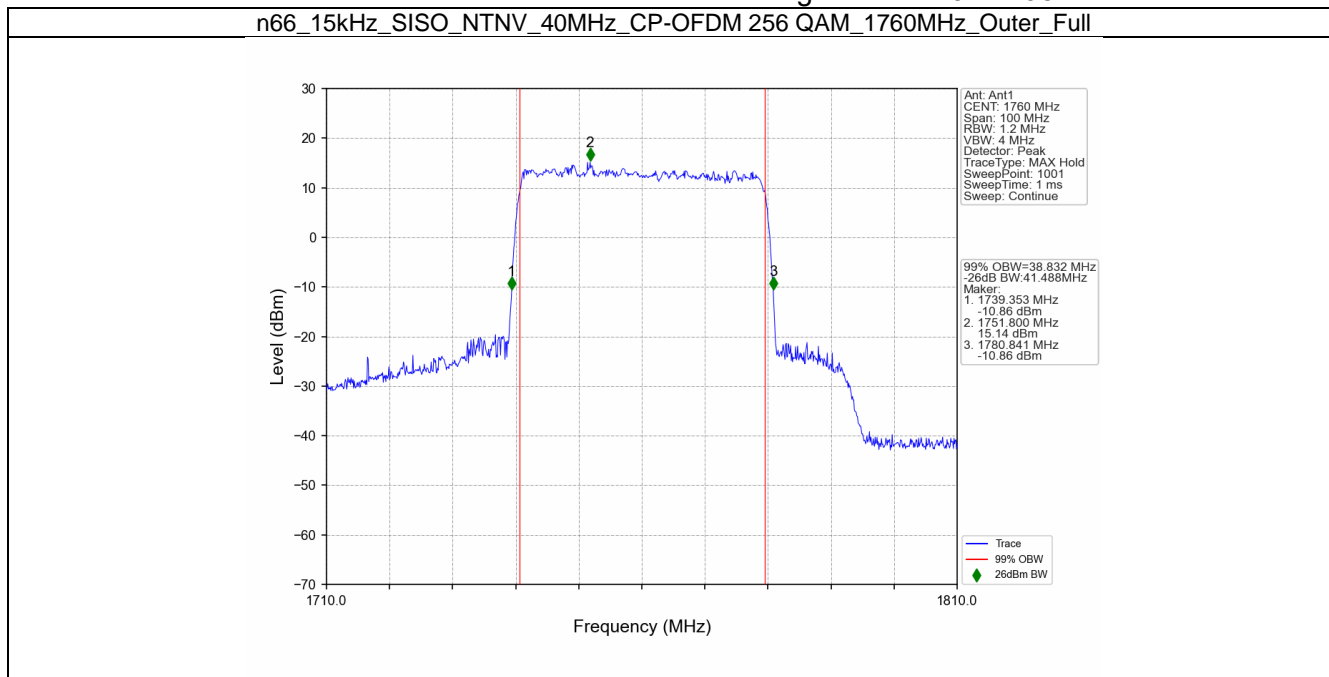


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n66_15kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_1760MHz_Outer_Full



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4.9 30k_SISO_10MHz_NTNV

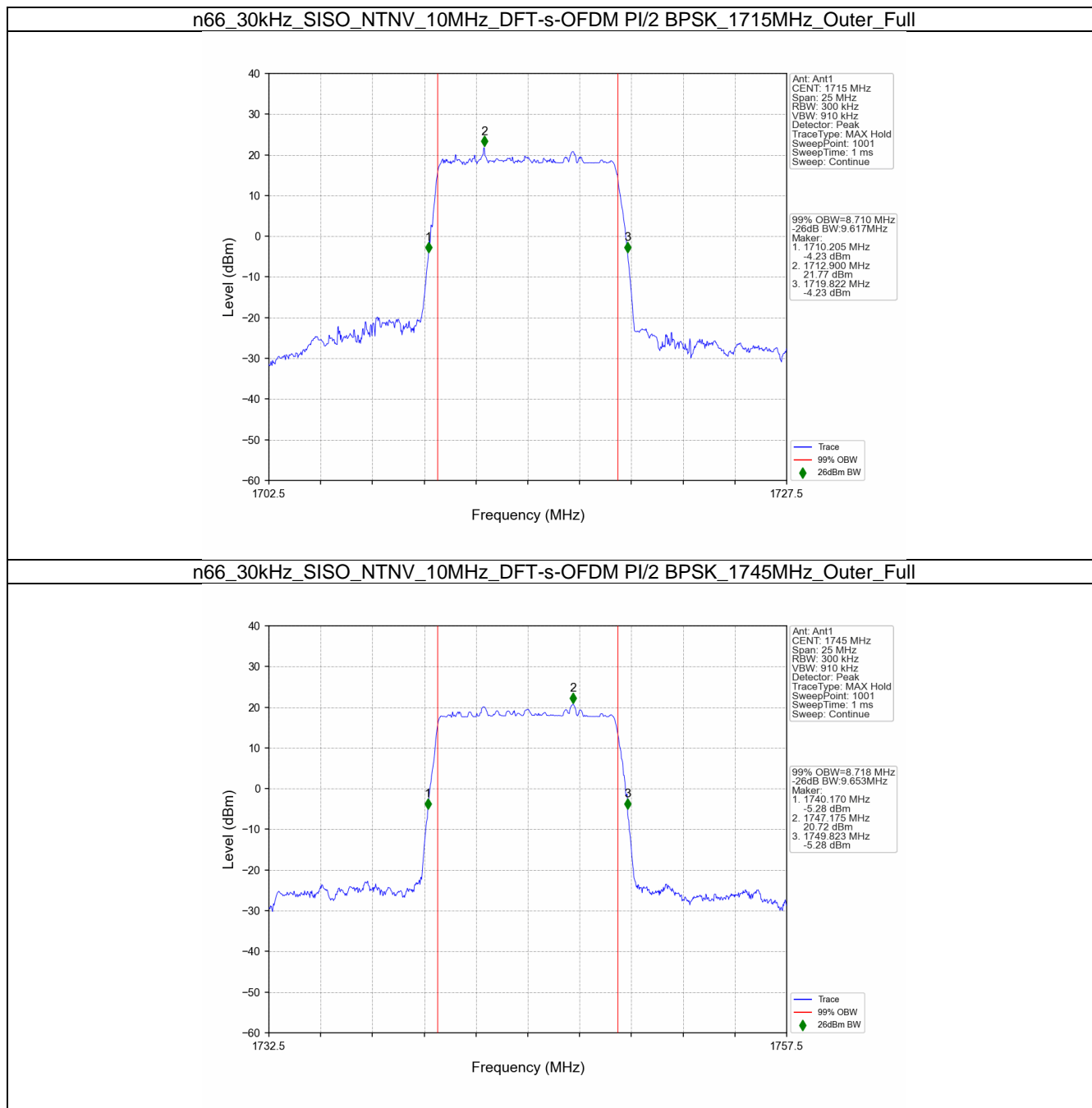
4.9.1 Test Result

Table with 7 columns: Modulation, Frequency (MHz), RB Allocation, 99% Bandwidth (MHz), 26dB Bandwidth (MHz), Limit (MHz), Verdict. Rows include various modulation schemes like DFT-s-OFDM and CP-OFDM with different QAM and BPSK types.



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4.9.2 Test Graph

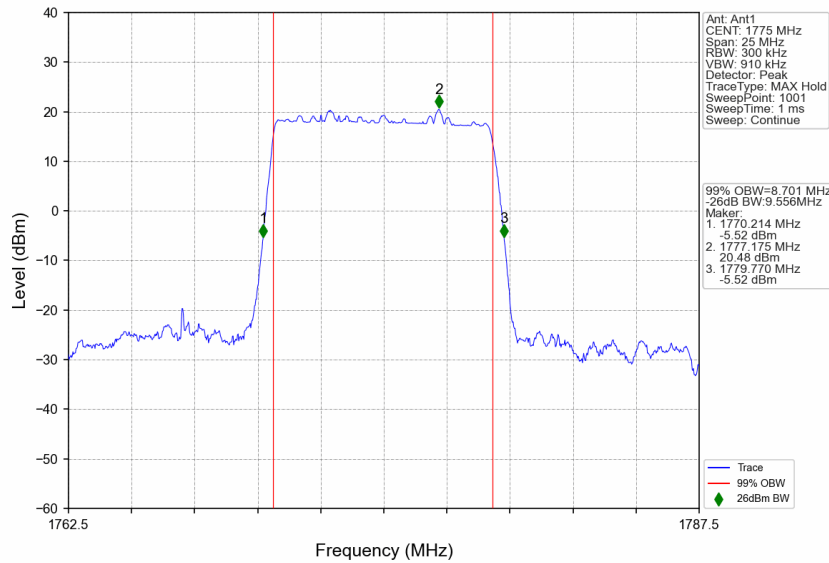


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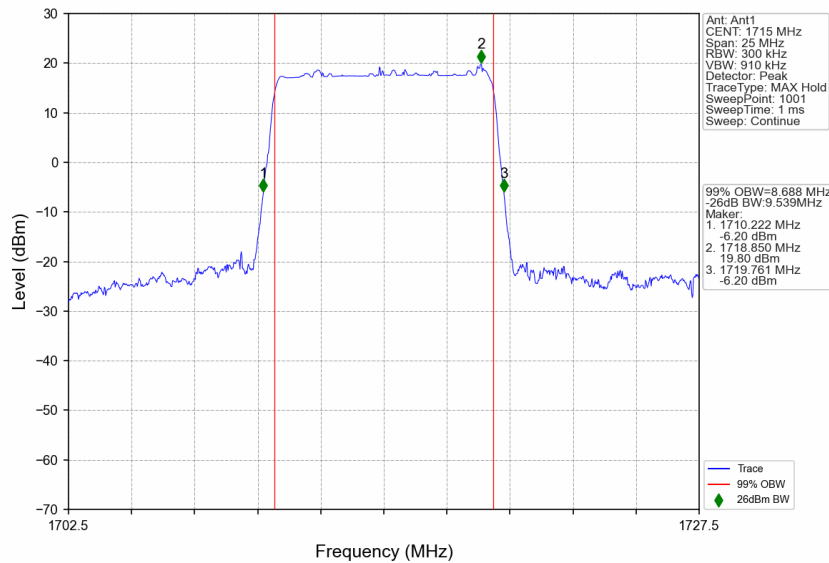
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n66_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_1775MHz_Outer_Full



n66_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1715MHz_Outer_Full

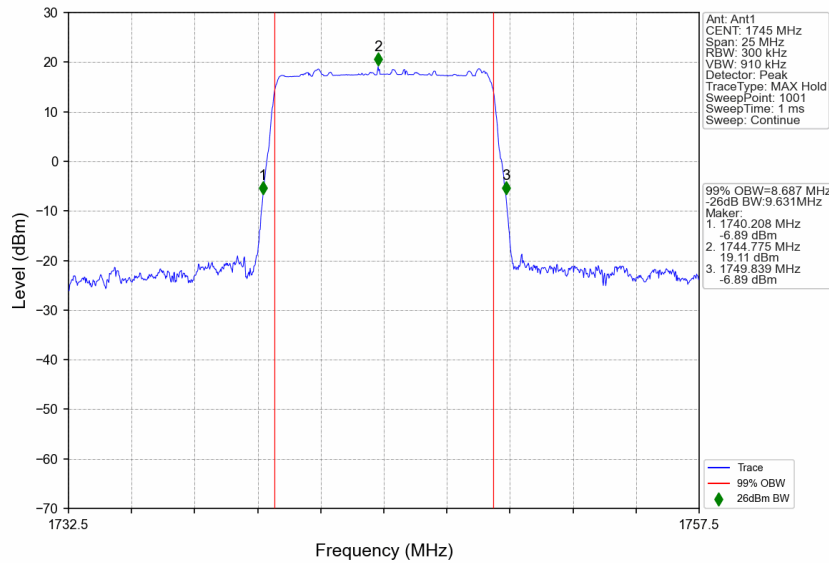


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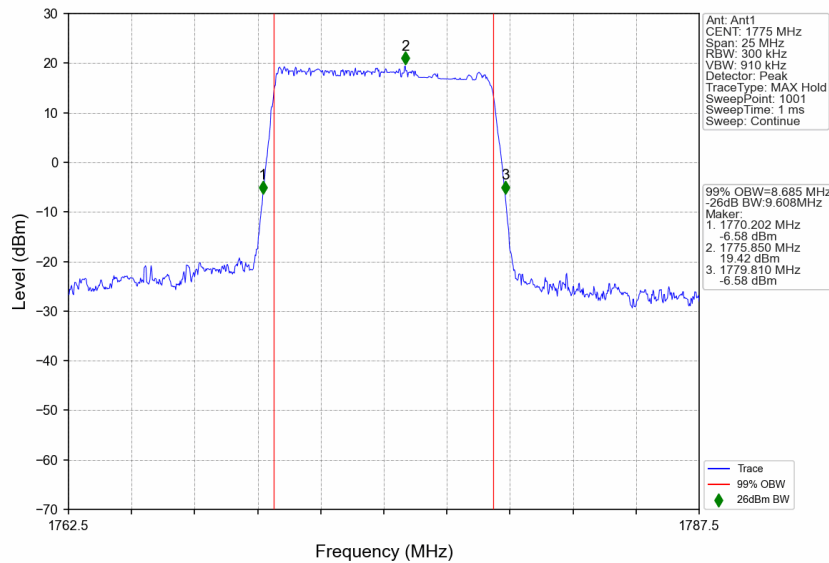
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n66_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1745MHz_Outer_Full



n66_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1775MHz_Outer_Full

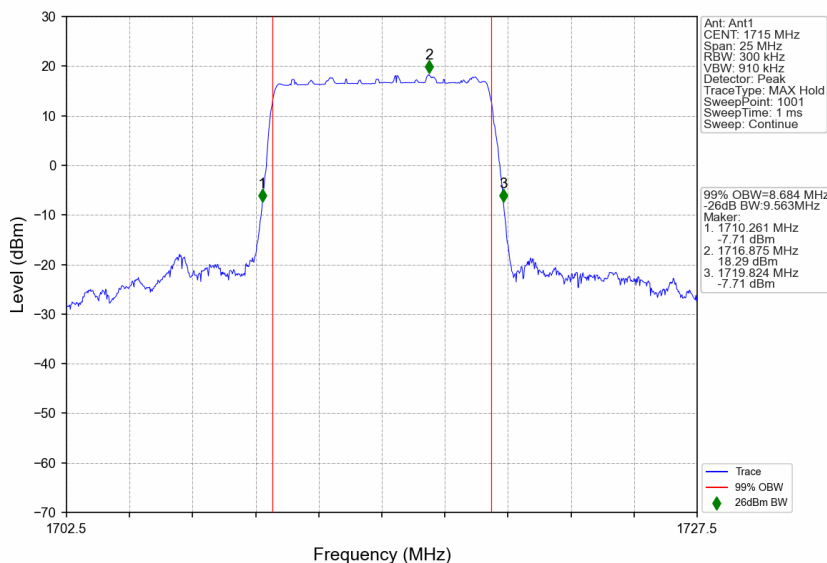


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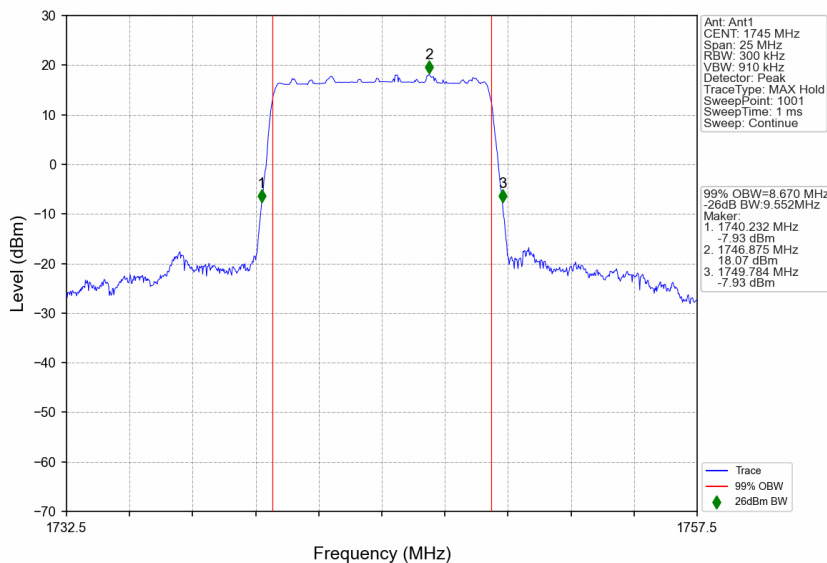
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n66_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_1715MHz_Outer_Full



n66_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_1745MHz_Outer_Full



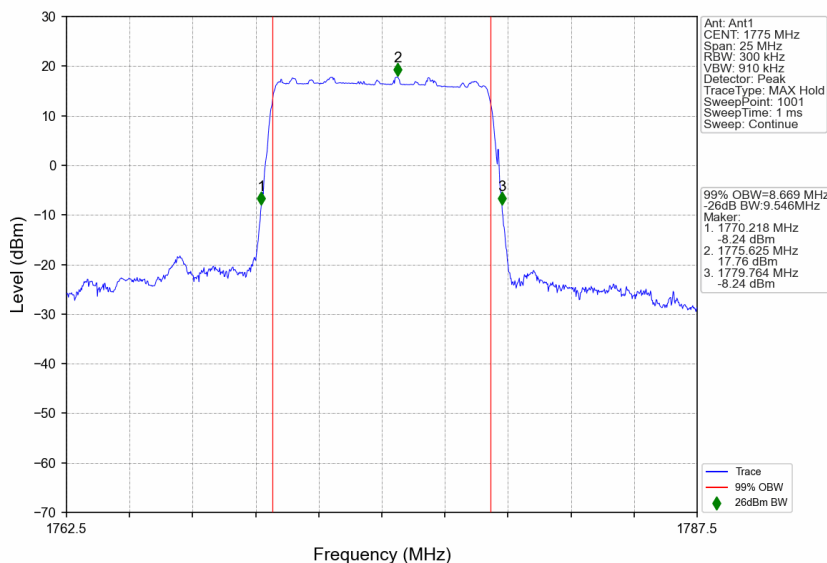
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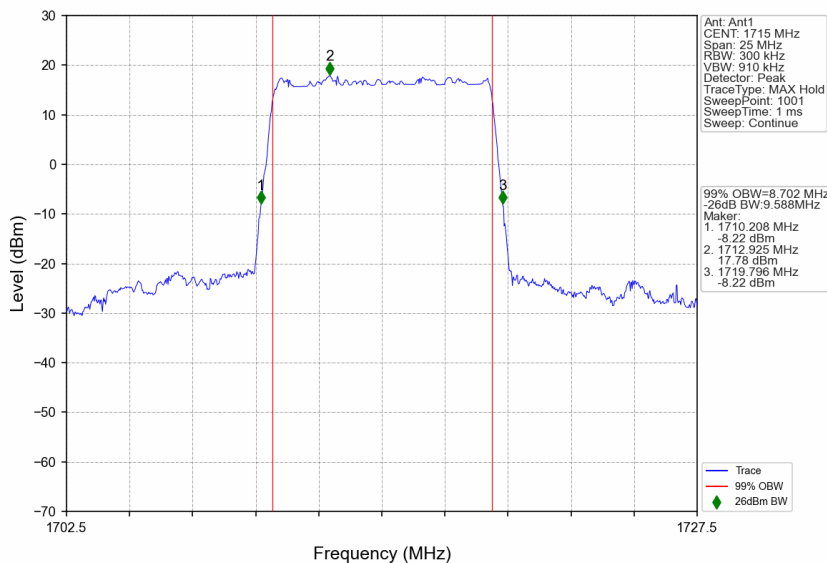
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n66_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_1775MHz_Outer_Full



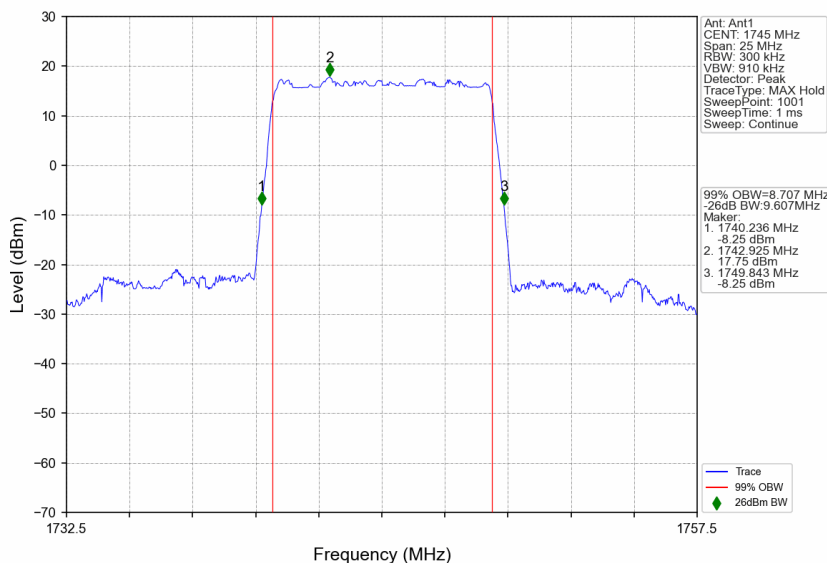
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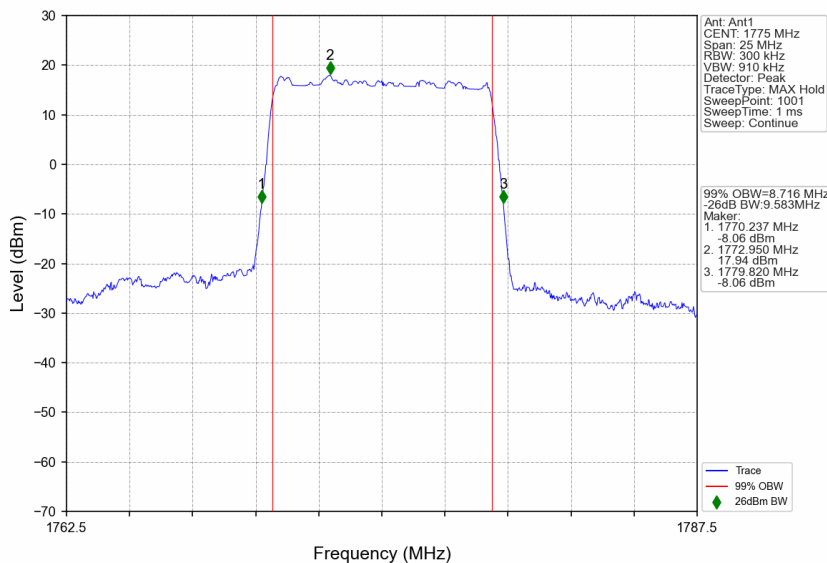
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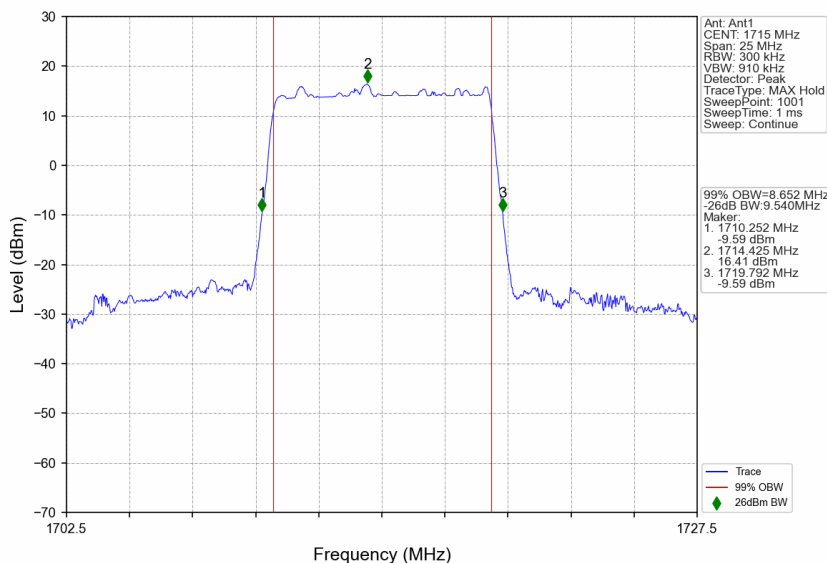


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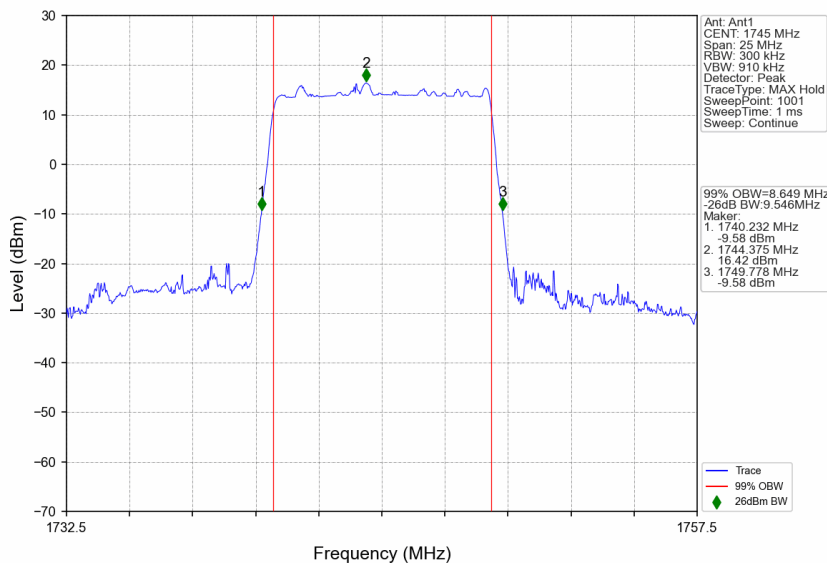
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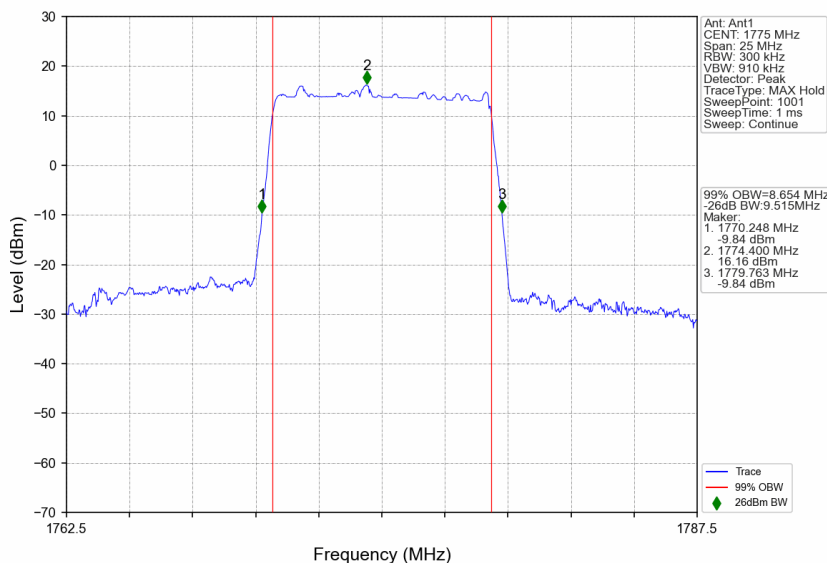


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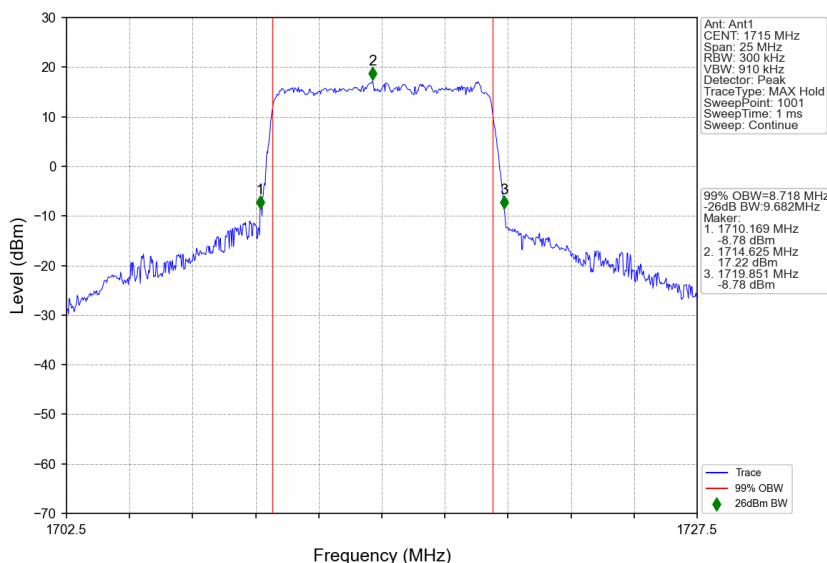
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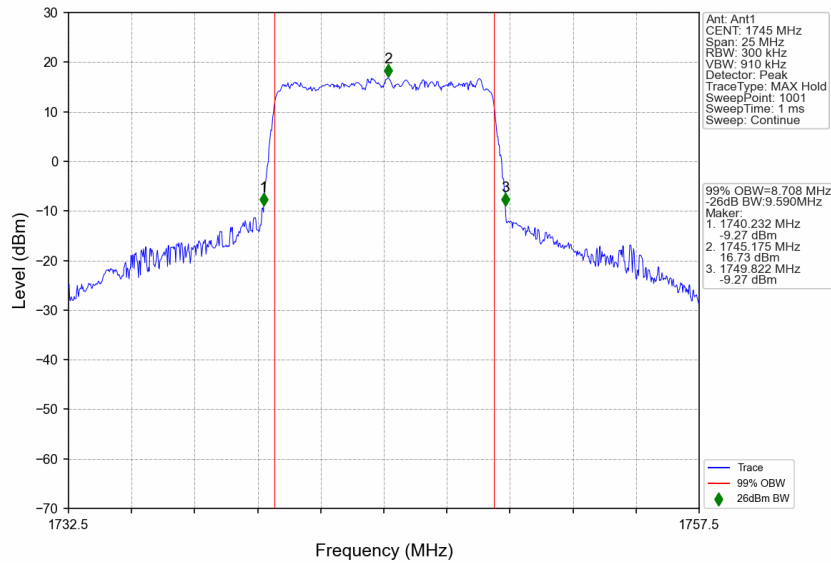


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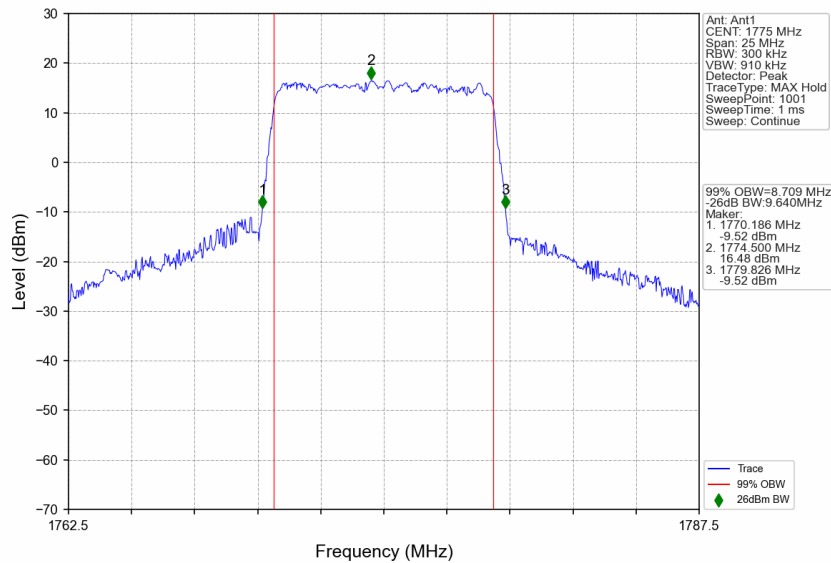
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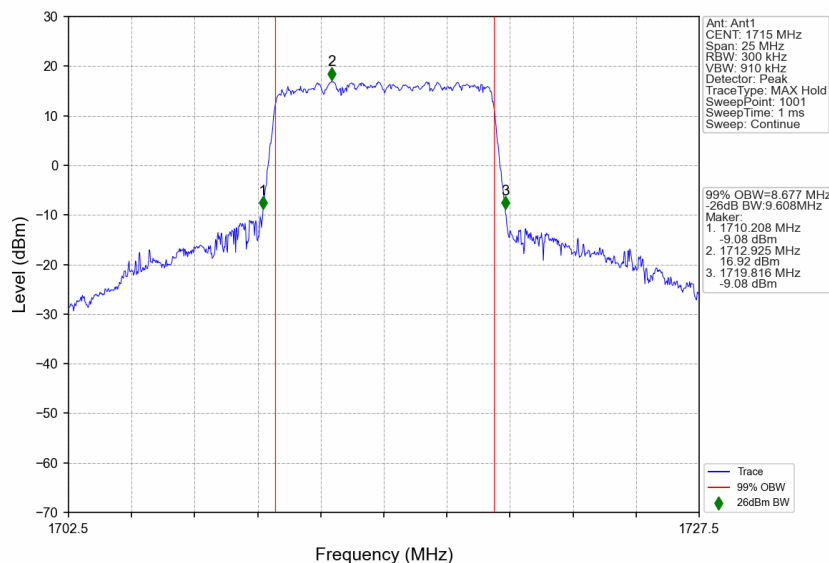


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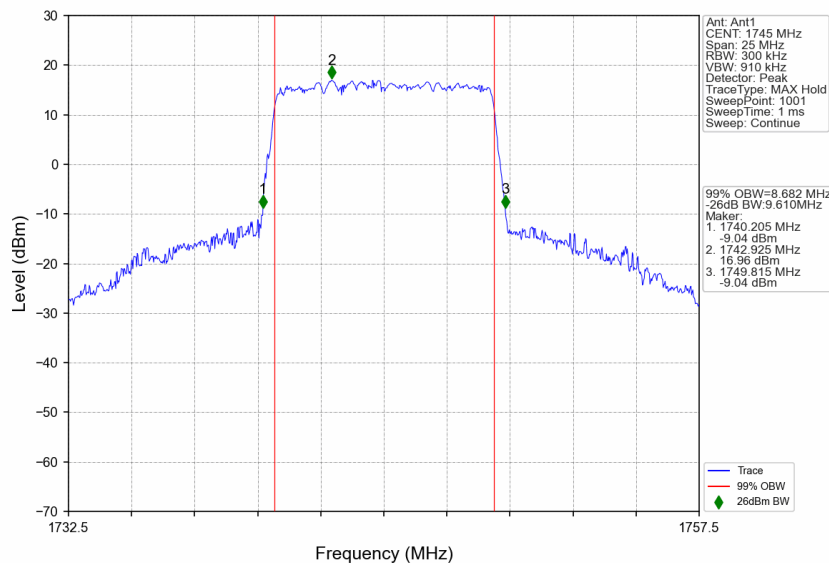
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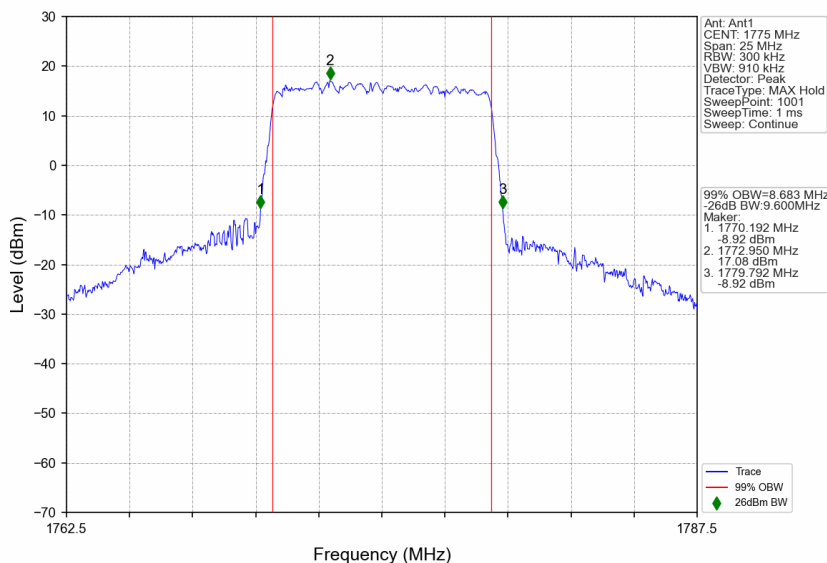


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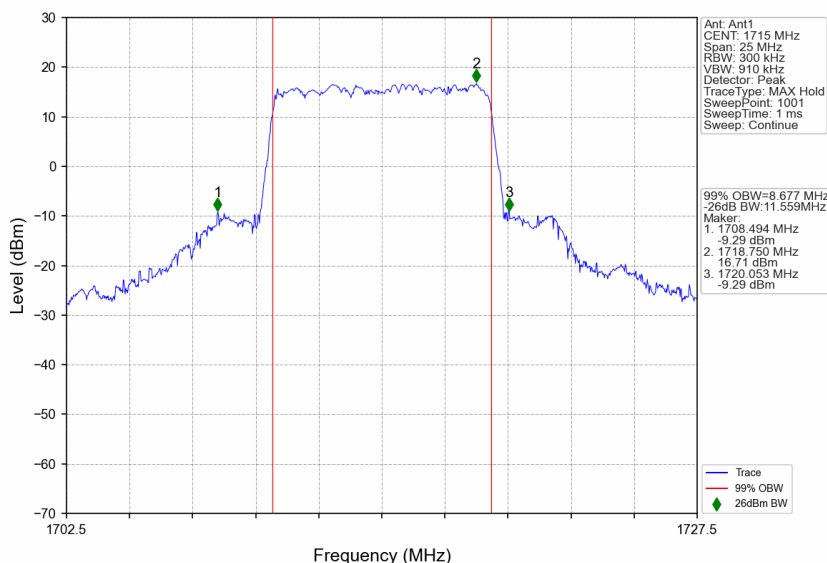
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n66_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_1775MHz_Outer_Full



n66_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_1715MHz_Outer_Full

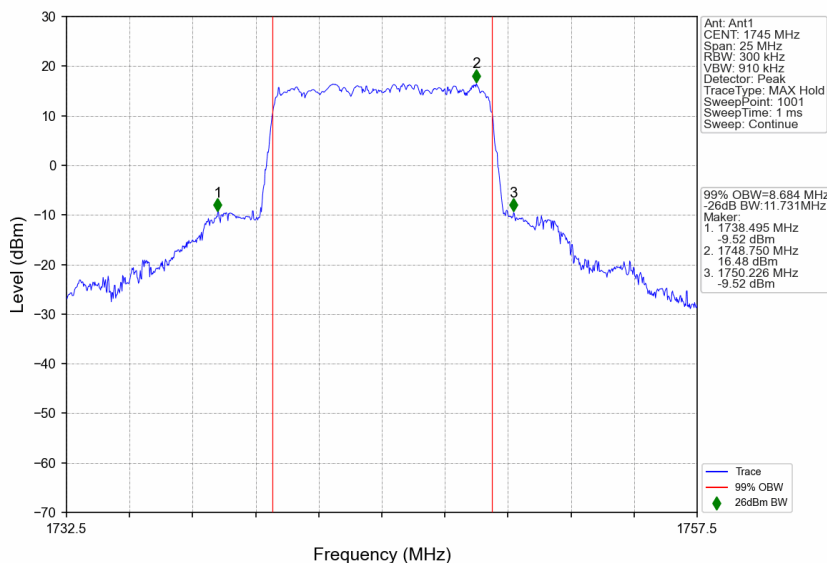


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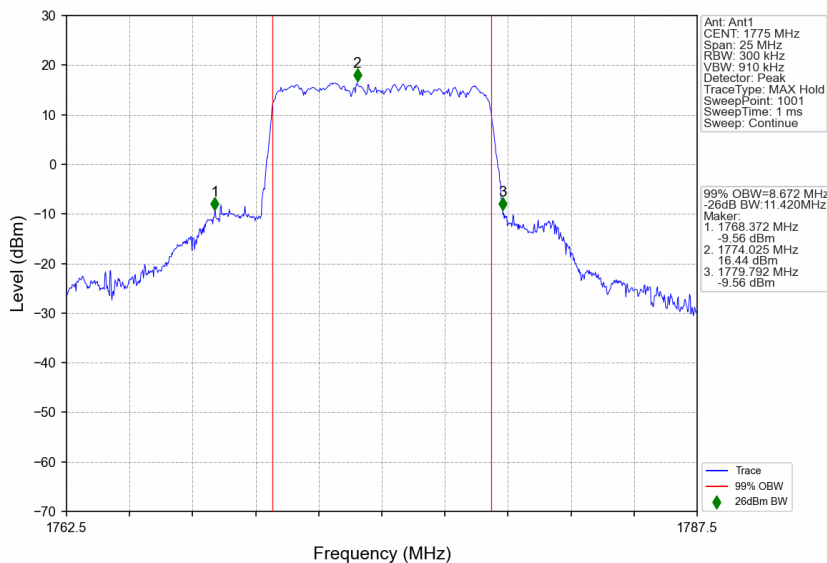
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n66_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_1745MHz_Outer_Full



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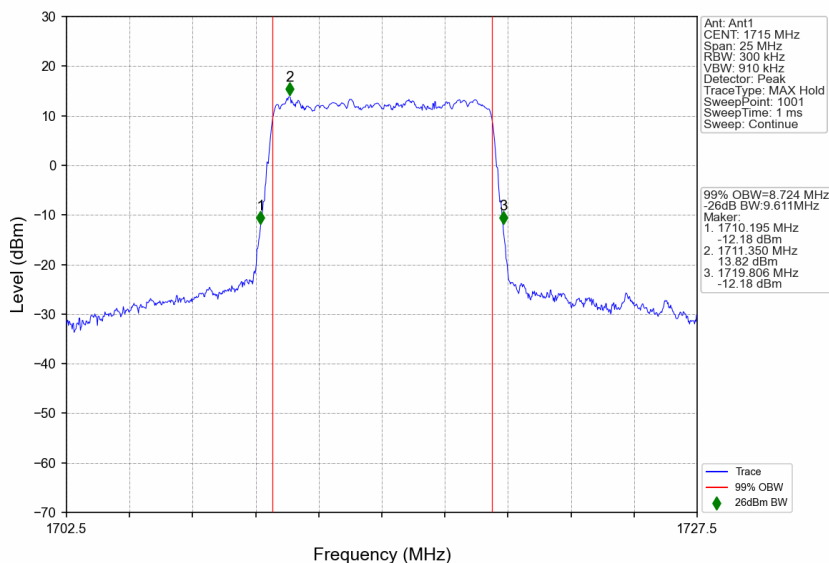
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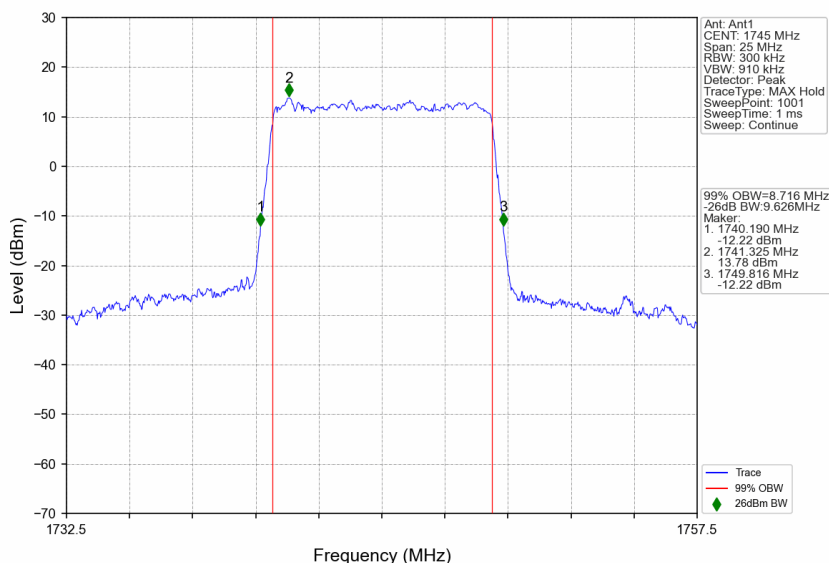
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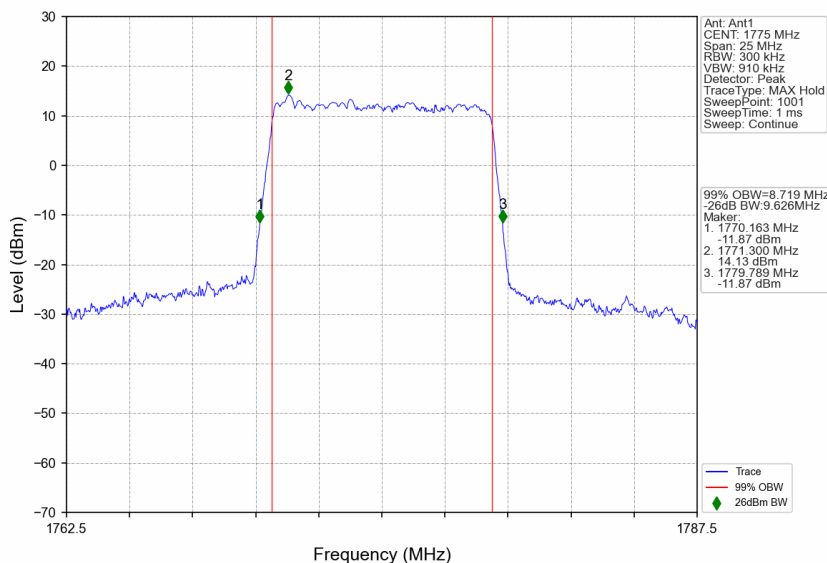


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 Wireless Laboratory

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4.10 30k_SISO_15MHz_NTNV

4.10.1 Test Result

5G NR n66 SCS=30kHz SISO 15MHz NTNv						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1717.5	Outer_Full	13.12	14.15	/	Pass
	1745	Outer_Full	13.11	14.17	/	Pass
	1772.5	Outer_Full	13.12	14.19	/	Pass
DFT-s-OFDM QPSK	1717.5	Outer_Full	13.06	14.18	/	Pass
	1745	Outer_Full	13.06	14.25	/	Pass
	1772.5	Outer_Full	13.07	14.30	/	Pass
DFT-s-OFDM 16 QAM	1717.5	Outer_Full	13.01	14.18	/	Pass
	1745	Outer_Full	13.01	14.18	/	Pass
	1772.5	Outer_Full	12.99	14.19	/	Pass
DFT-s-OFDM 64 QAM	1717.5	Outer_Full	13.10	14.22	/	Pass
	1745	Outer_Full	13.12	14.26	/	Pass
	1772.5	Outer_Full	13.11	14.25	/	Pass
DFT-s-OFDM 256 QAM	1717.5	Outer_Full	12.99	14.12	/	Pass
	1745	Outer_Full	12.99	14.09	/	Pass
	1772.5	Outer_Full	12.98	14.17	/	Pass
CP-OFDM QPSK	1717.5	Outer_Full	13.68	14.90	/	Pass
	1745	Outer_Full	13.69	14.92	/	Pass
	1772.5	Outer_Full	13.69	14.96	/	Pass
CP-OFDM 16 QAM	1717.5	Outer_Full	13.74	15.05	/	Pass
	1745	Outer_Full	13.76	15.45	/	Pass
	1772.5	Outer_Full	13.75	15.33	/	Pass
CP-OFDM 64 QAM	1717.5	Outer_Full	13.78	14.94	/	Pass
	1745	Outer_Full	13.78	14.93	/	Pass
	1772.5	Outer_Full	13.76	14.90	/	Pass
CP-OFDM 256 QAM	1717.5	Outer_Full	13.70	14.91	/	Pass
	1745	Outer_Full	13.71	14.91	/	Pass
	1772.5	Outer_Full	13.71	14.94	/	Pass

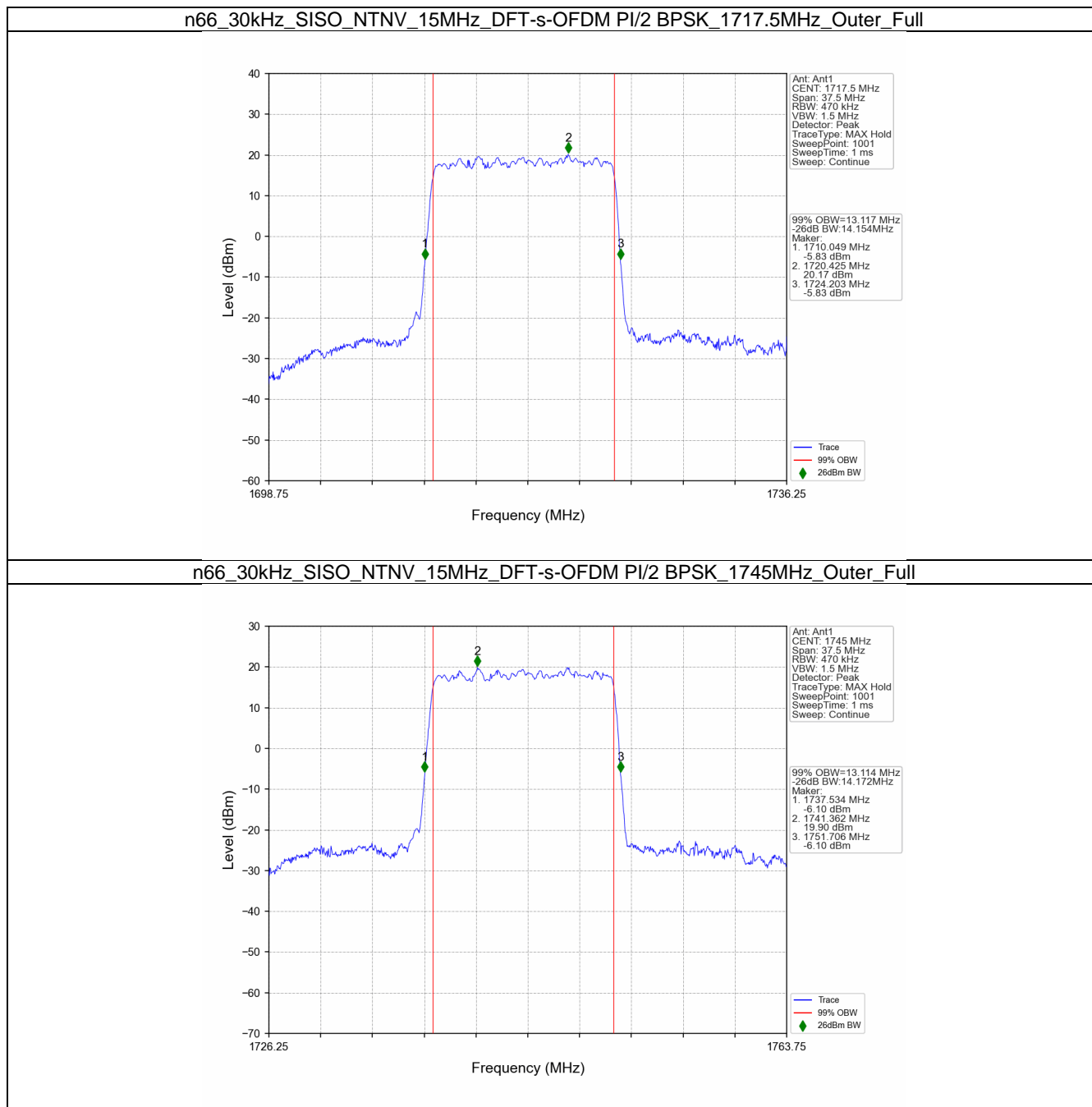


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4.10.2 Test Graph

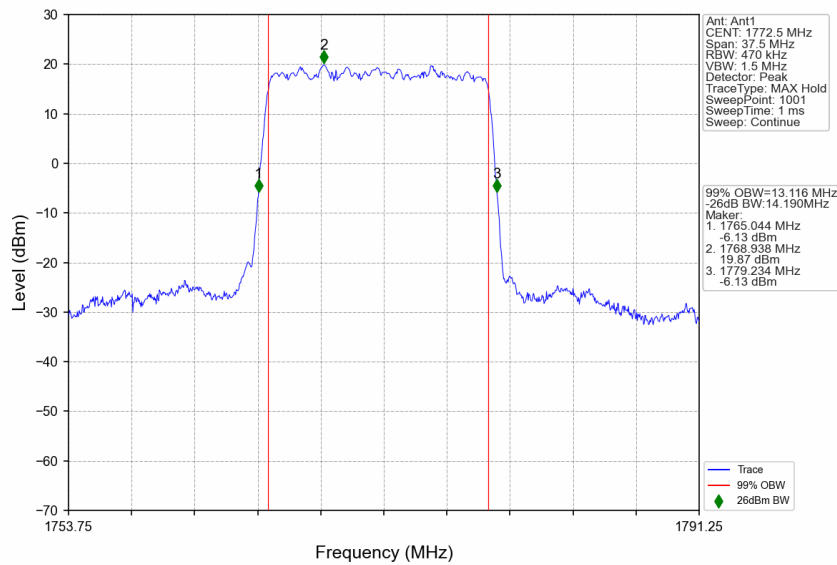


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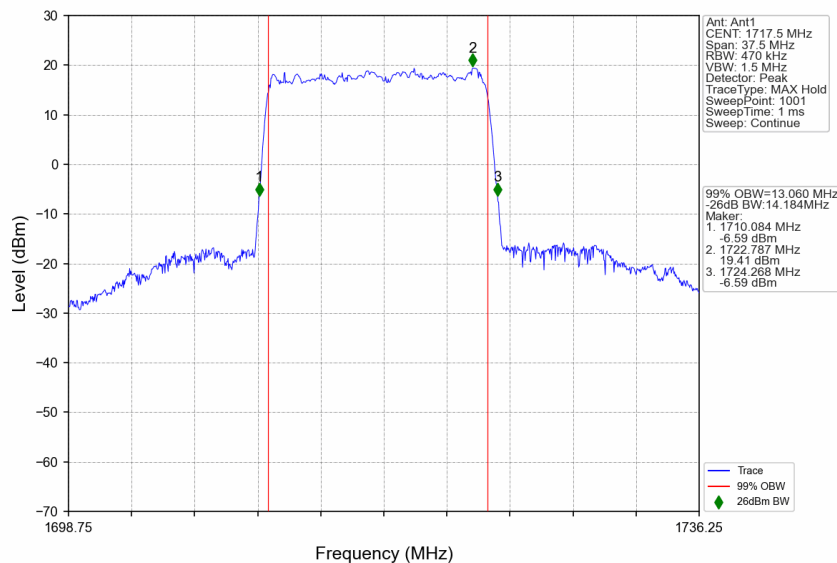
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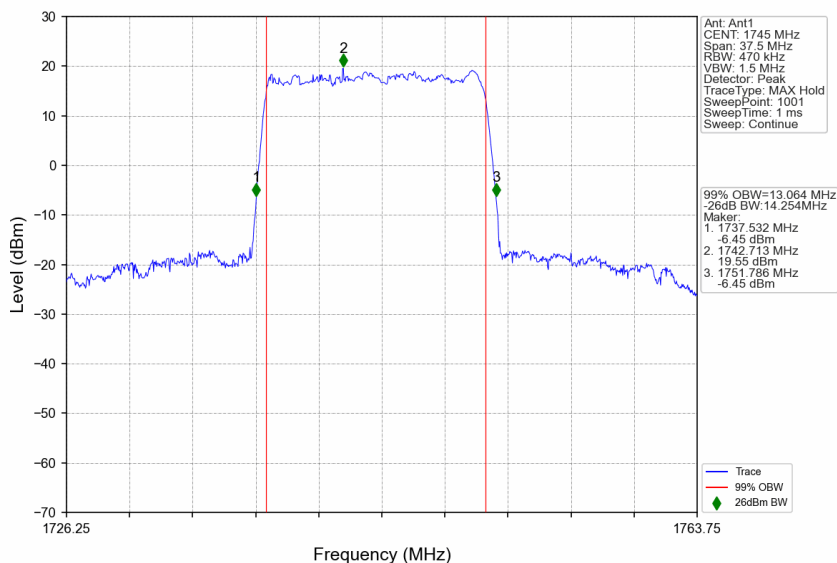
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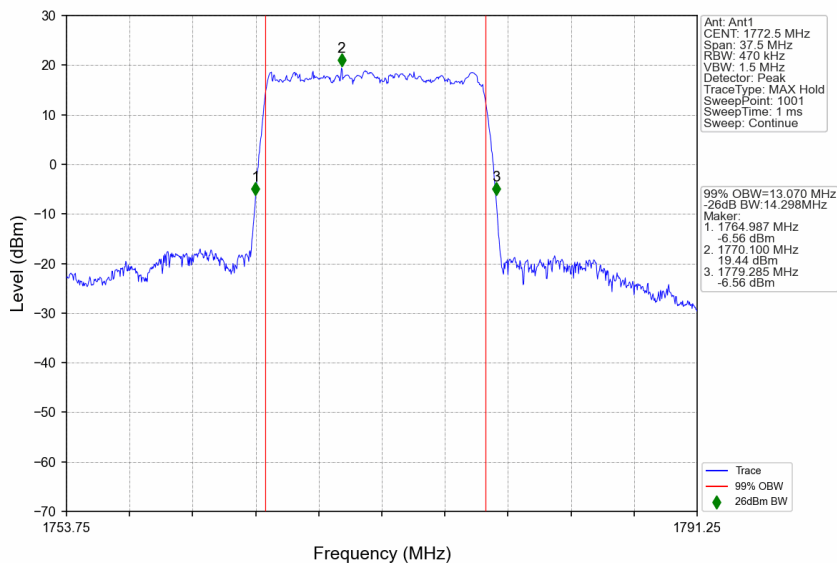
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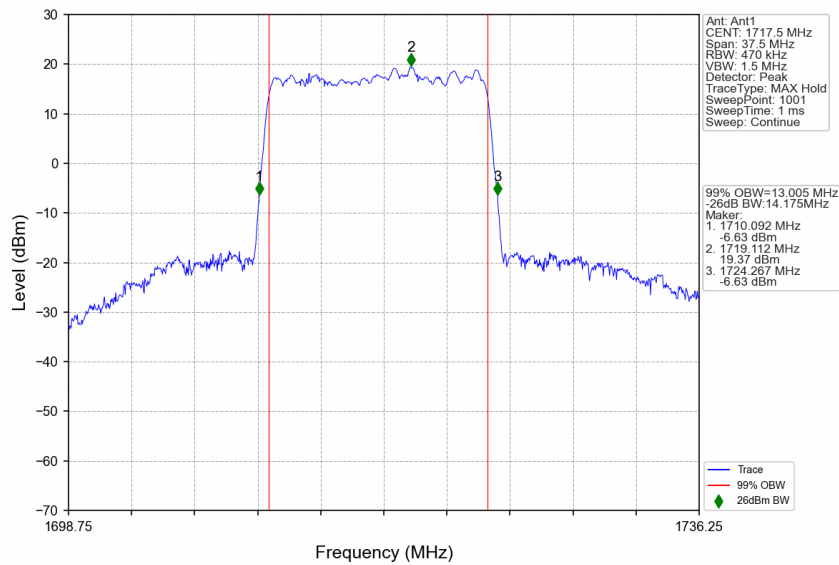
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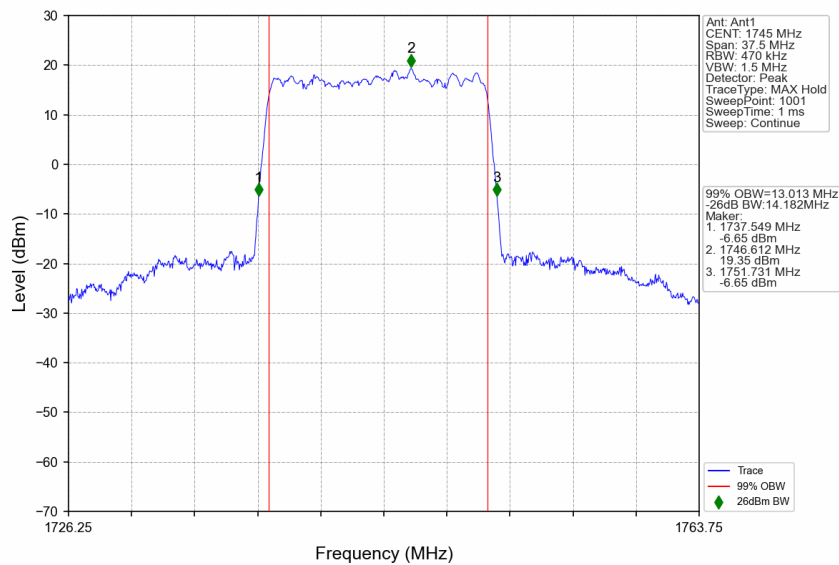
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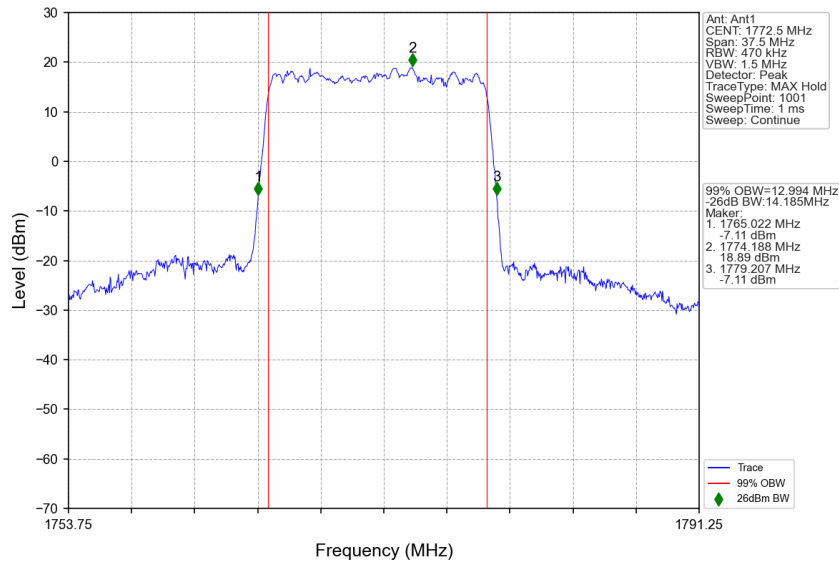


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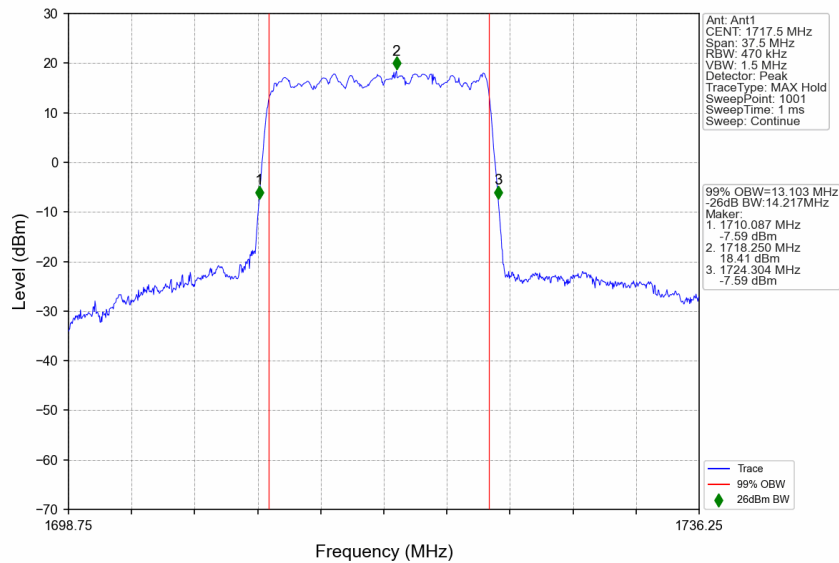
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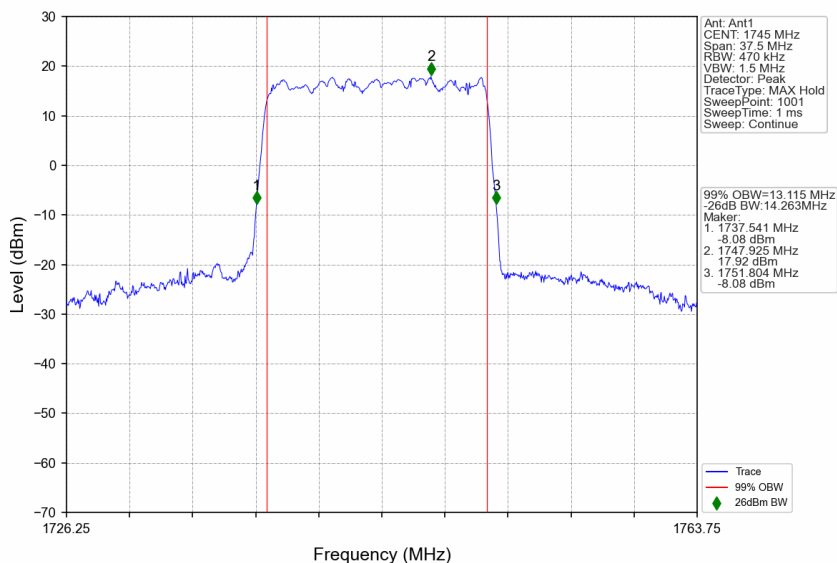


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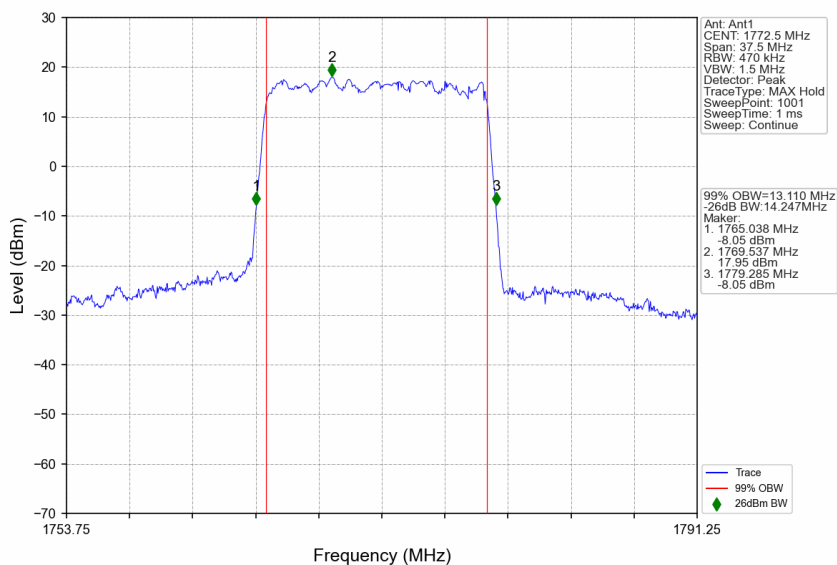
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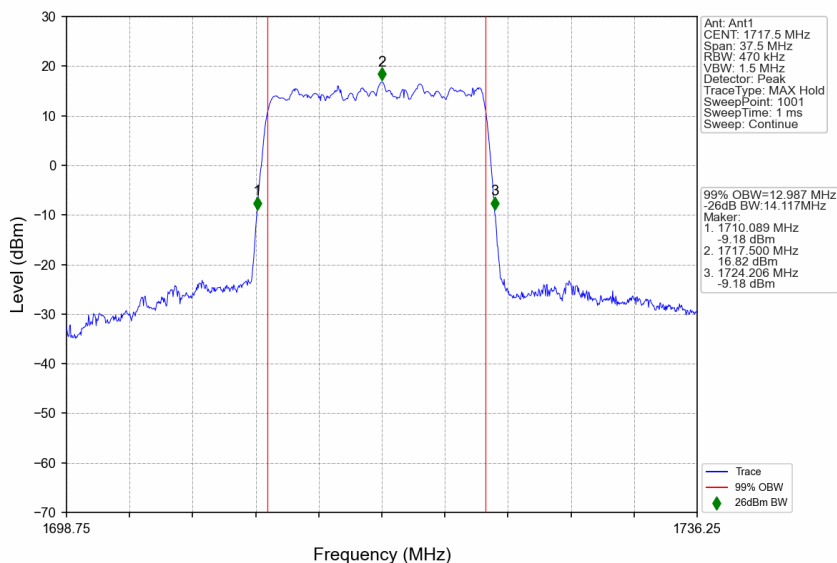
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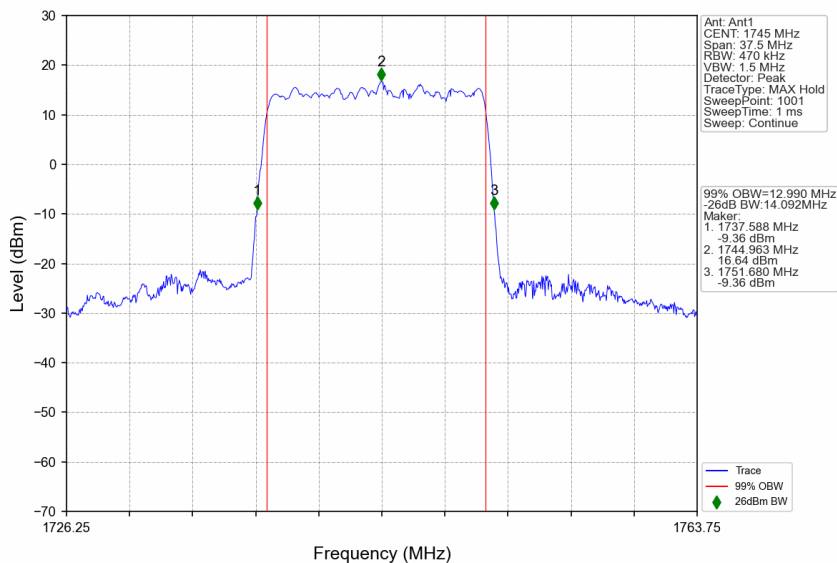
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n66_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_1717.5MHz_Outer_Full



n66_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_1745MHz_Outer_Full

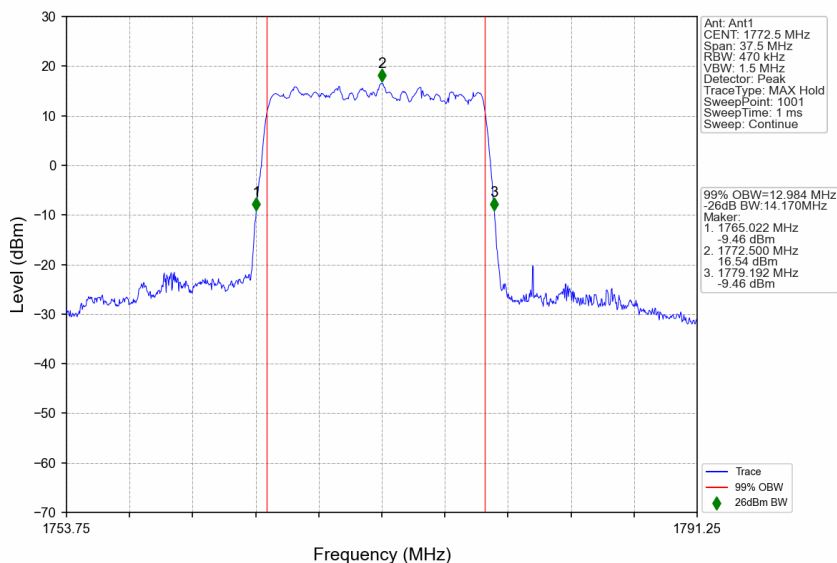


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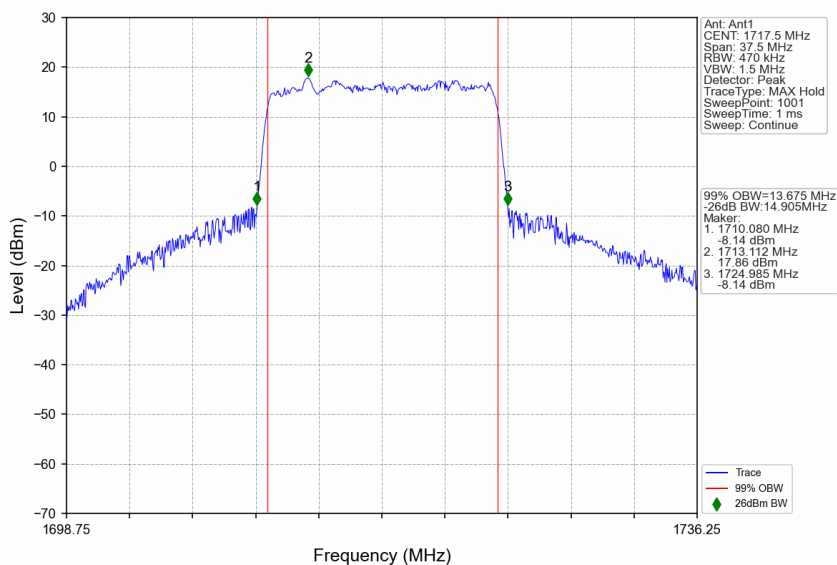
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n66_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_1772.5MHz_Outer_Full



n66_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_1717.5MHz_Outer_Full

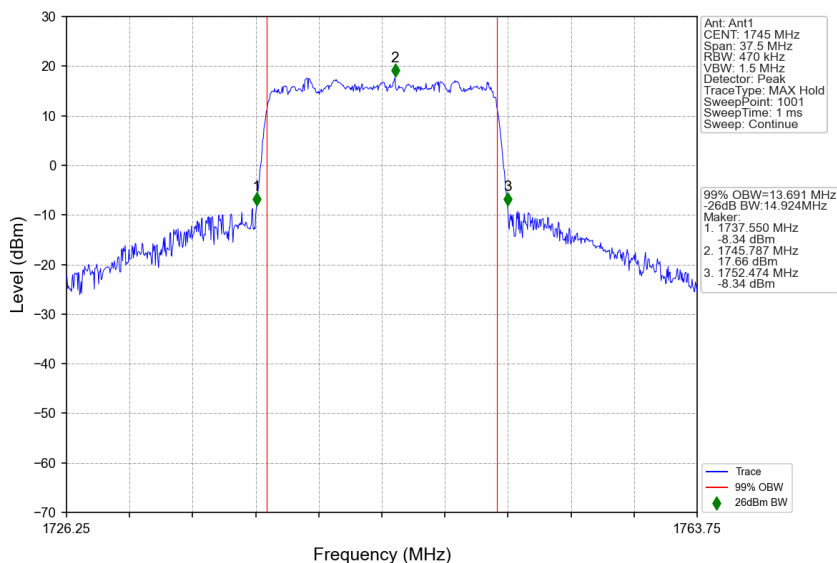


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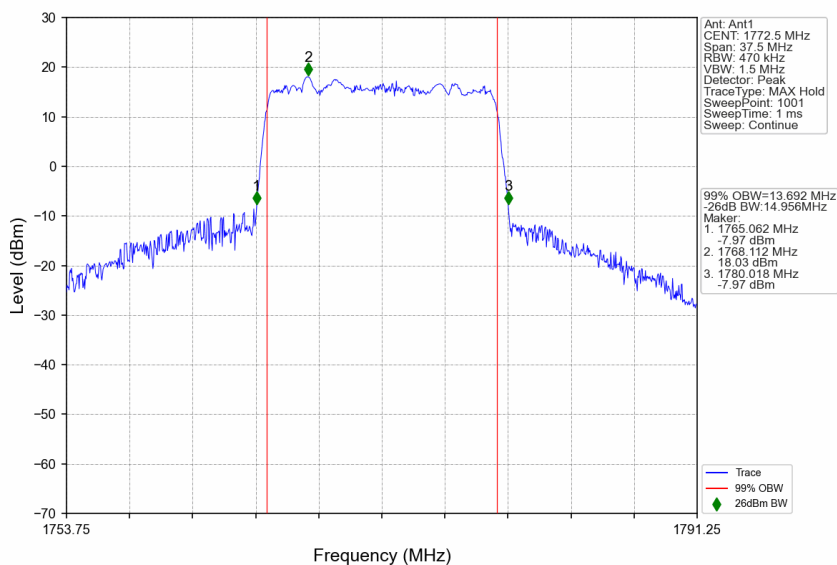
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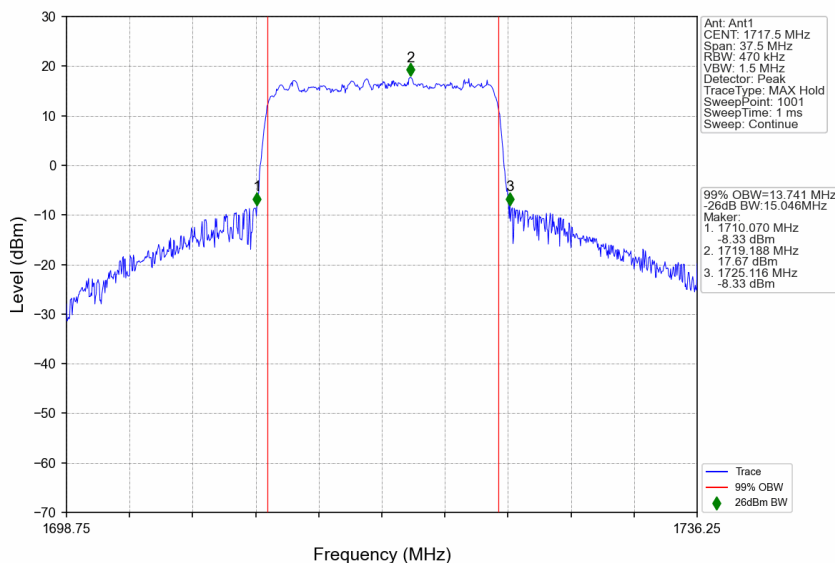


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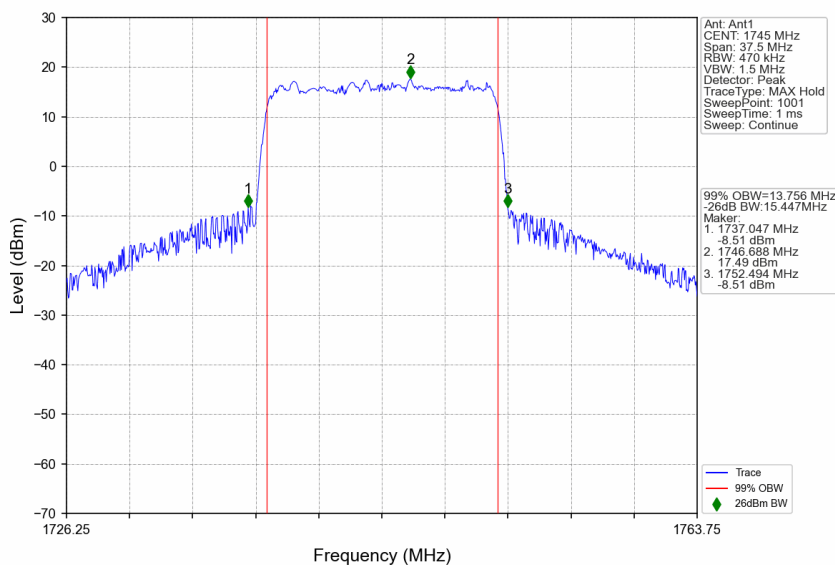
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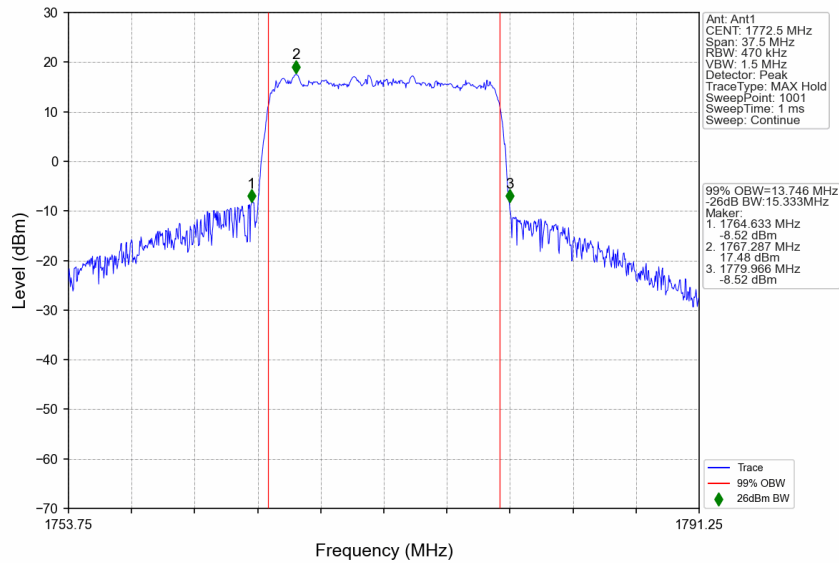
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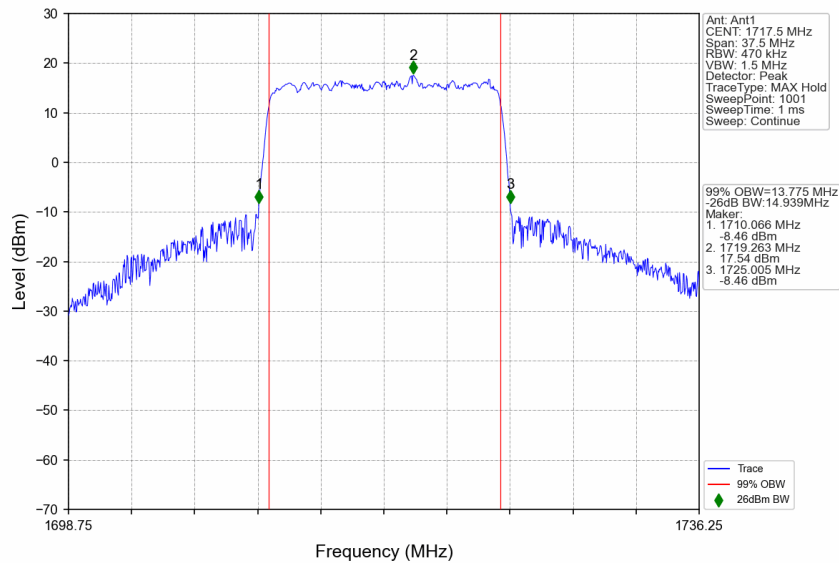
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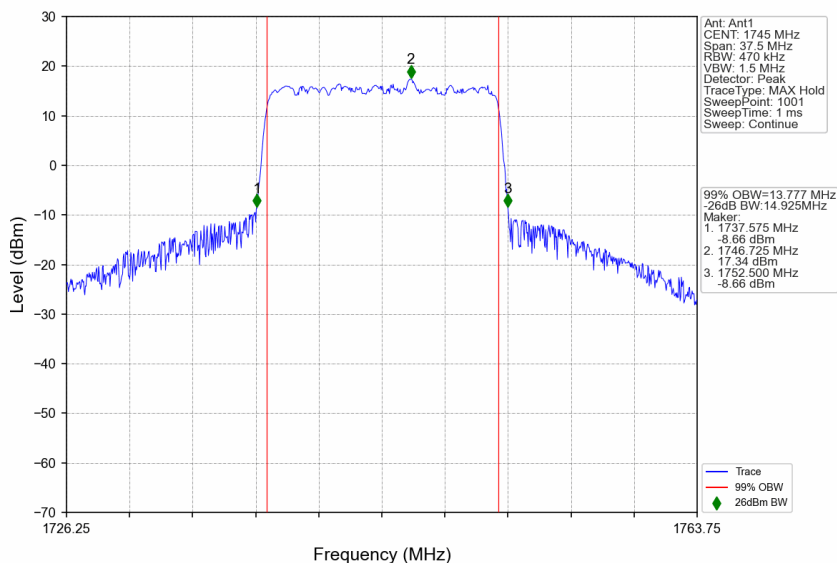
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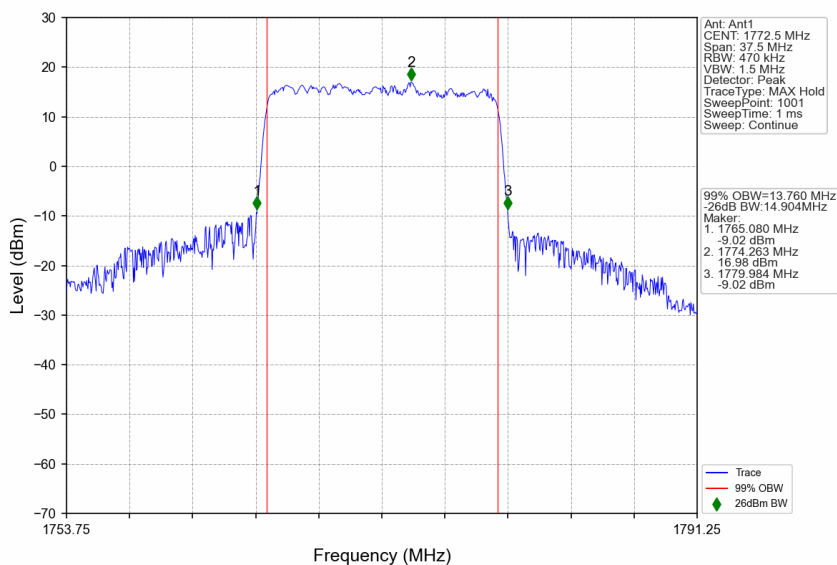
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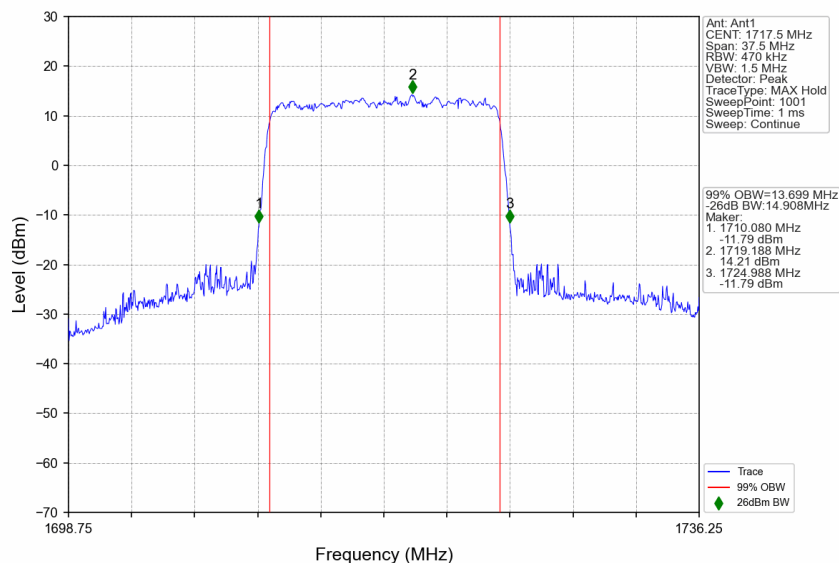
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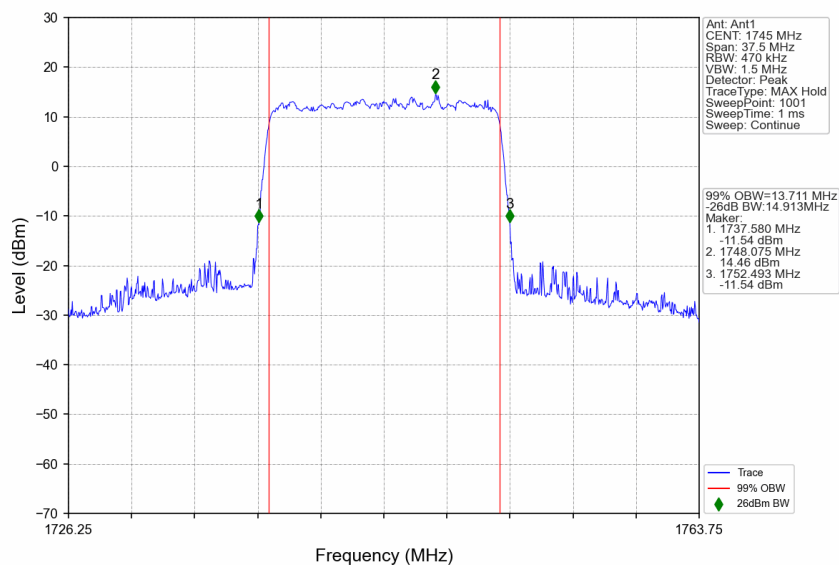
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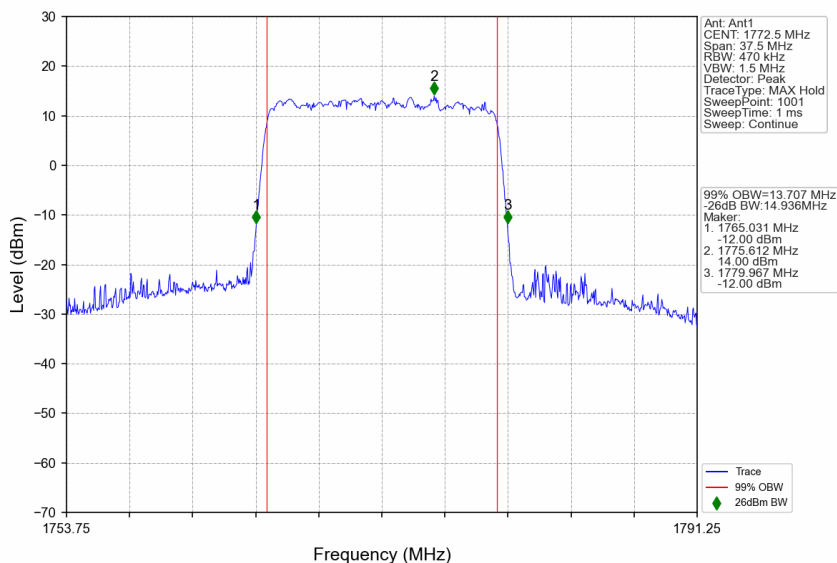
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 Wireless Laboratory

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4.11 30k_SISO_20MHz_NTNV

4.11.1 Test Result

5G NR n66 SCS=30kHz SISO 20MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1720	Outer_Full	18.19	19.54	/	Pass
	1745	Outer_Full	18.21	19.63	/	Pass
	1770	Outer_Full	18.19	19.49	/	Pass
DFT-s-OFDM QPSK	1720	Outer_Full	18.06	19.44	/	Pass
	1745	Outer_Full	18.06	19.43	/	Pass
	1770	Outer_Full	18.06	19.38	/	Pass
DFT-s-OFDM 16 QAM	1720	Outer_Full	18.04	19.45	/	Pass
	1745	Outer_Full	18.03	19.44	/	Pass
	1770	Outer_Full	18.04	19.41	/	Pass
DFT-s-OFDM 64 QAM	1720	Outer_Full	18.10	19.50	/	Pass
	1745	Outer_Full	18.11	19.54	/	Pass
	1770	Outer_Full	18.12	19.54	/	Pass
DFT-s-OFDM 256 QAM	1720	Outer_Full	18.00	19.36	/	Pass
	1745	Outer_Full	18.03	19.38	/	Pass
	1770	Outer_Full	18.02	19.41	/	Pass
CP-OFDM QPSK	1720	Outer_Full	18.36	21.79	/	Pass
	1745	Outer_Full	18.39	20.45	/	Pass
	1770	Outer_Full	18.36	19.84	/	Pass
CP-OFDM 16 QAM	1720	Outer_Full	18.41	19.80	/	Pass
	1745	Outer_Full	18.44	19.80	/	Pass
	1770	Outer_Full	18.43	19.82	/	Pass
CP-OFDM 64 QAM	1720	Outer_Full	18.37	19.82	/	Pass
	1745	Outer_Full	18.41	19.80	/	Pass
	1770	Outer_Full	18.40	19.83	/	Pass
CP-OFDM 256 QAM	1720	Outer_Full	18.36	19.80	/	Pass
	1745	Outer_Full	18.37	19.79	/	Pass
	1770	Outer_Full	18.36	19.75	/	Pass

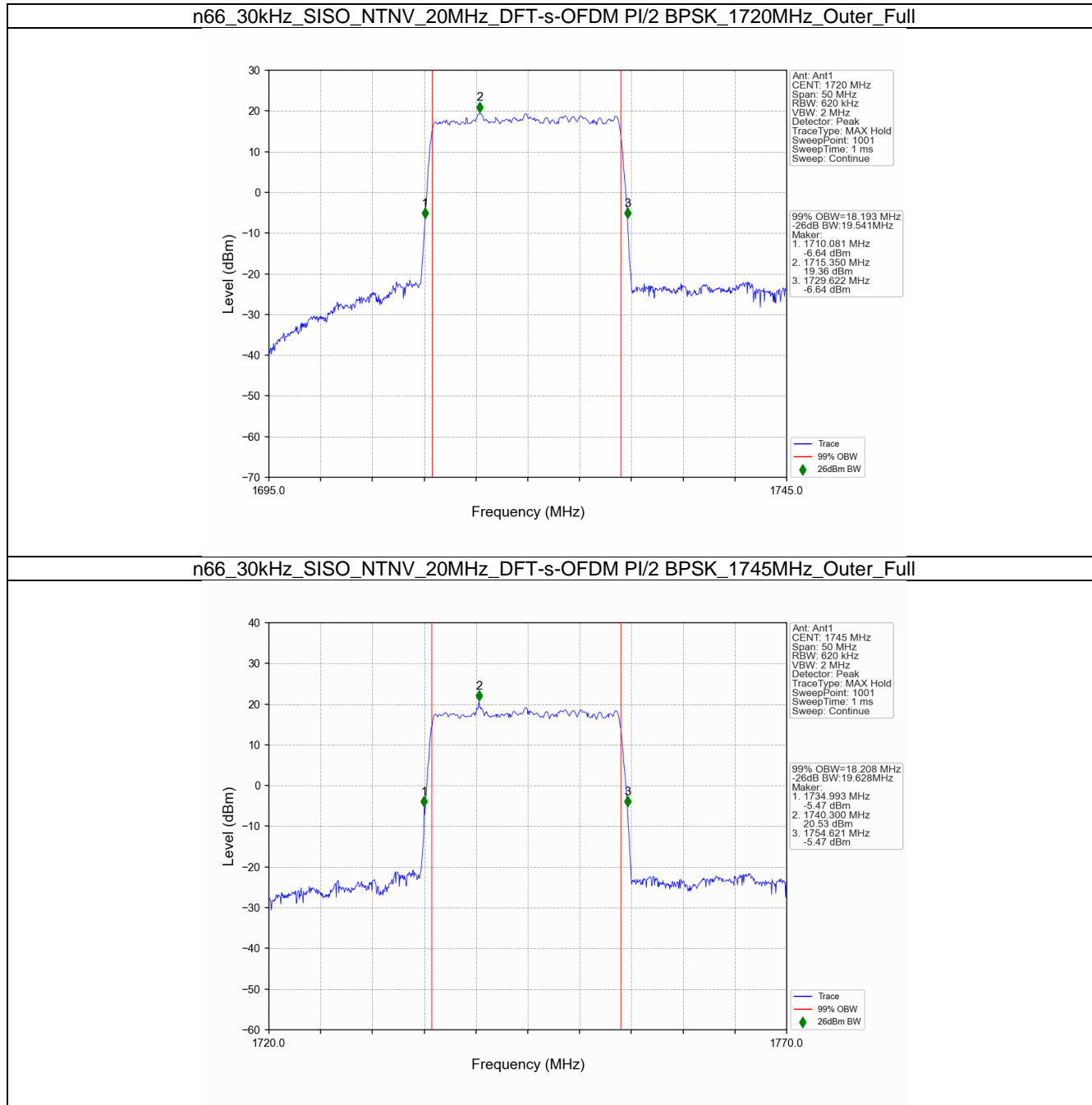


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4.11.2 Test Graph

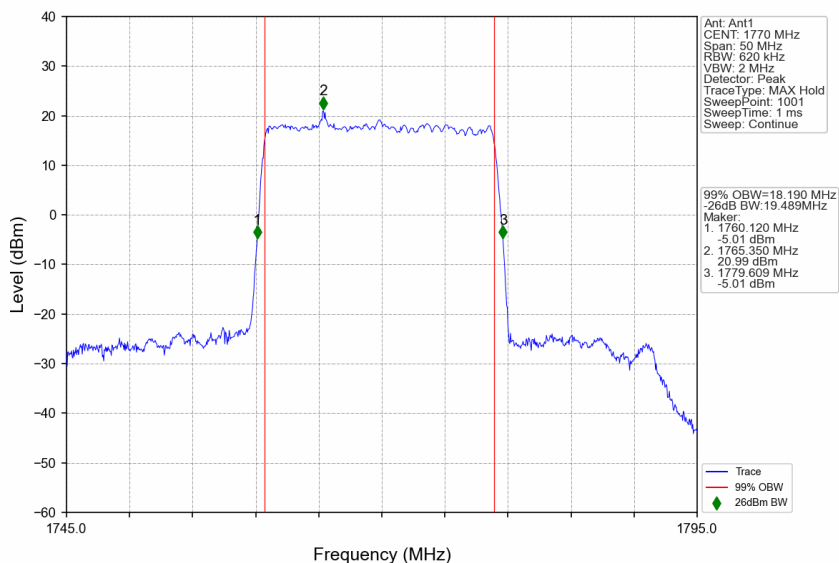


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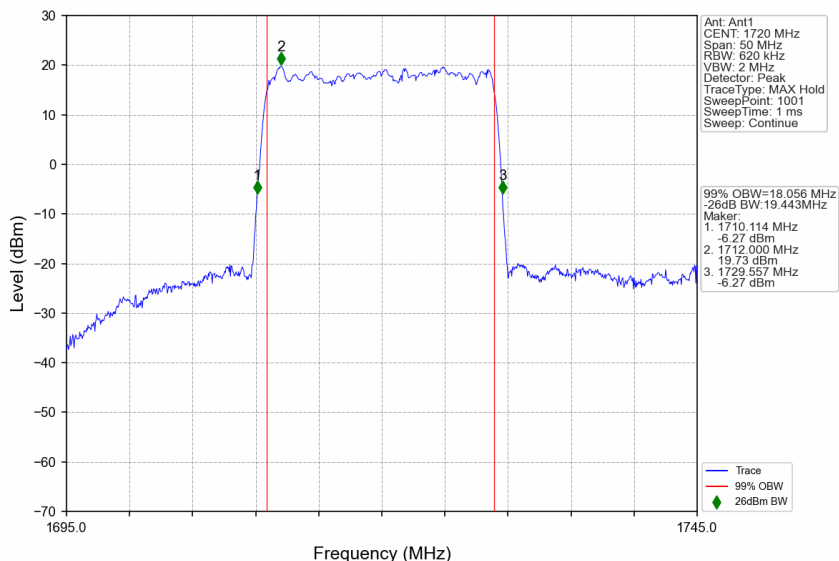
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n66_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_1770MHz_Outer_Full



n66_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_1720MHz_Outer_Full

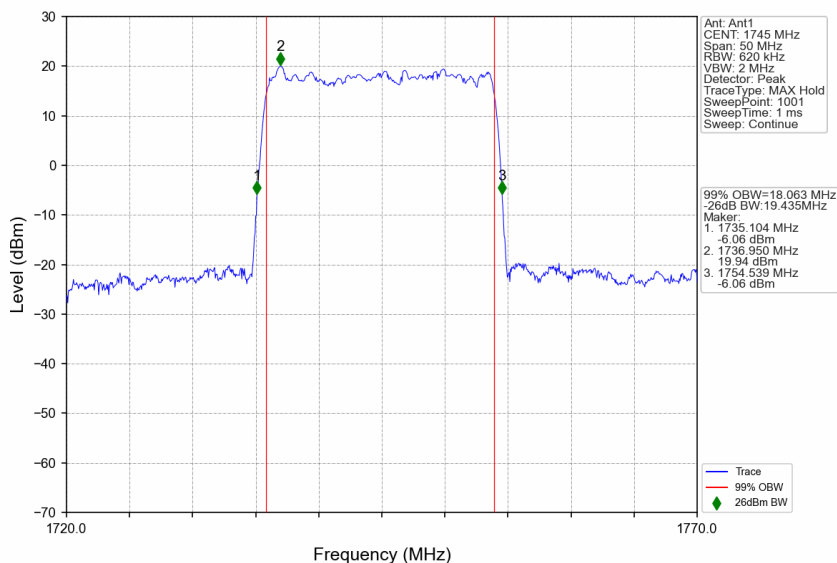


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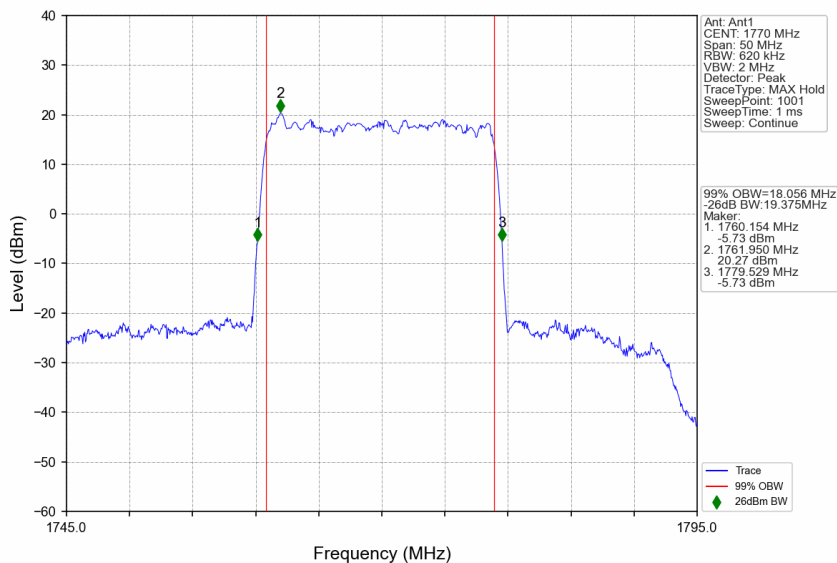
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n66_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_1745MHz_Outer_Full



n66_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_1770MHz_Outer_Full

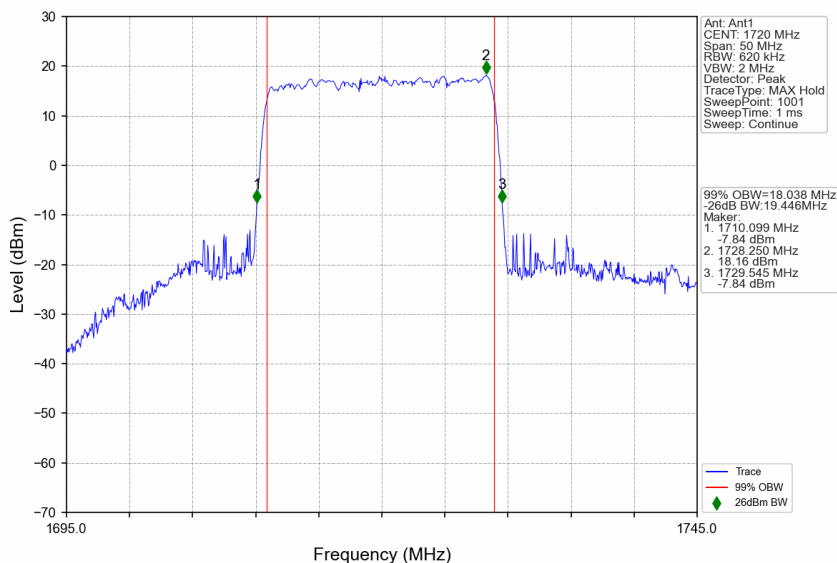


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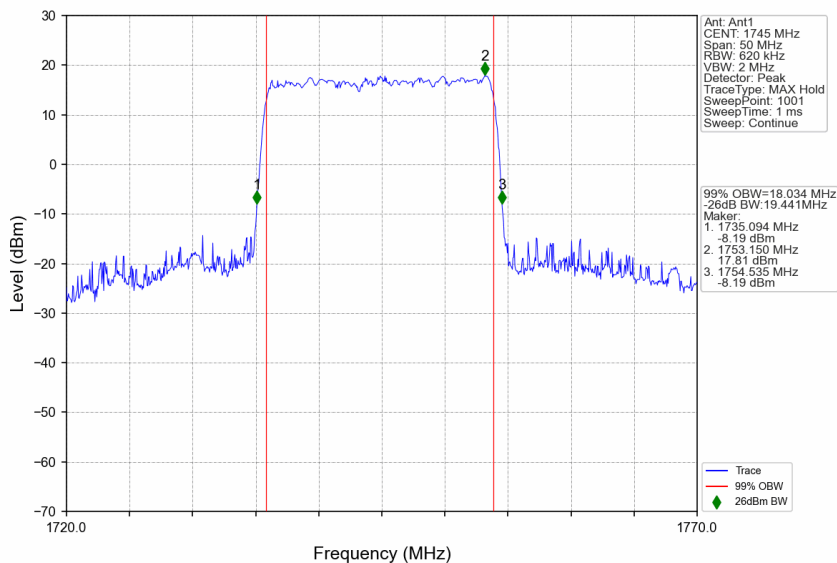
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n66_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_1720MHz_Outer_Full



n66_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_1745MHz_Outer_Full



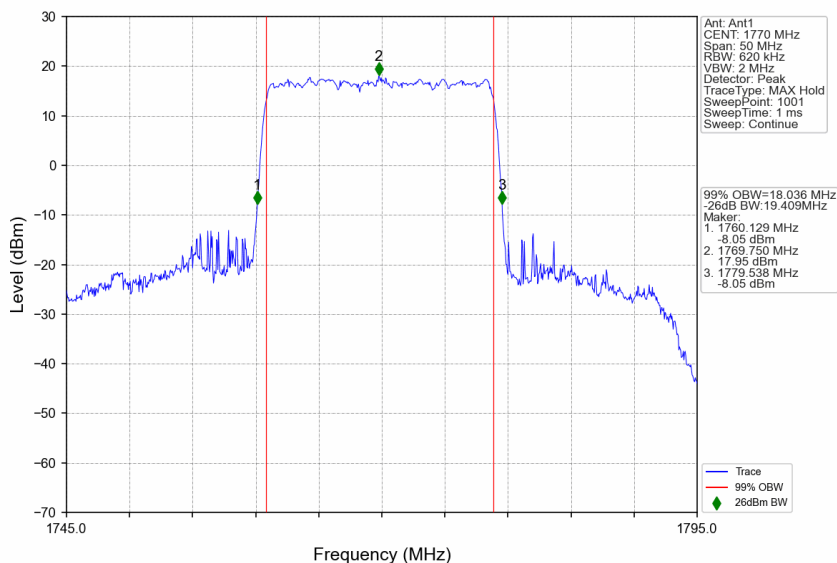
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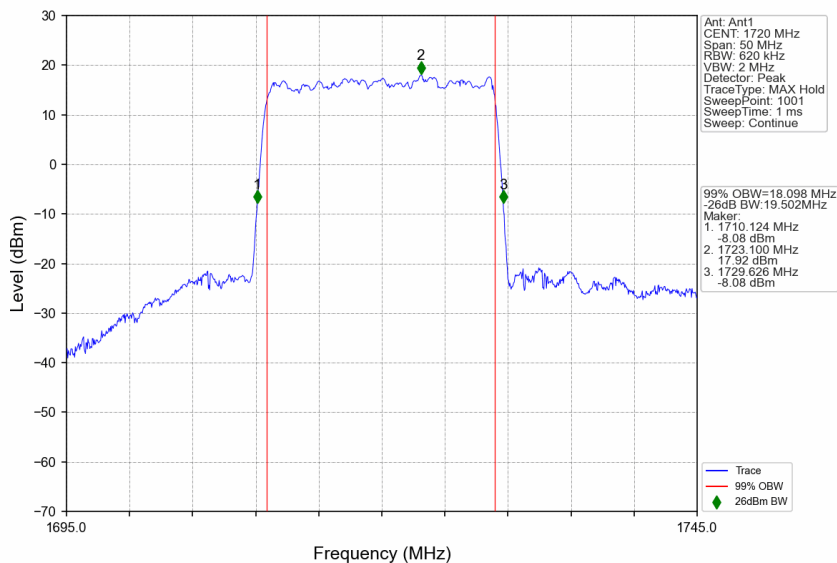
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n66_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_1770MHz_Outer_Full



n66_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_1720MHz_Outer_Full



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