

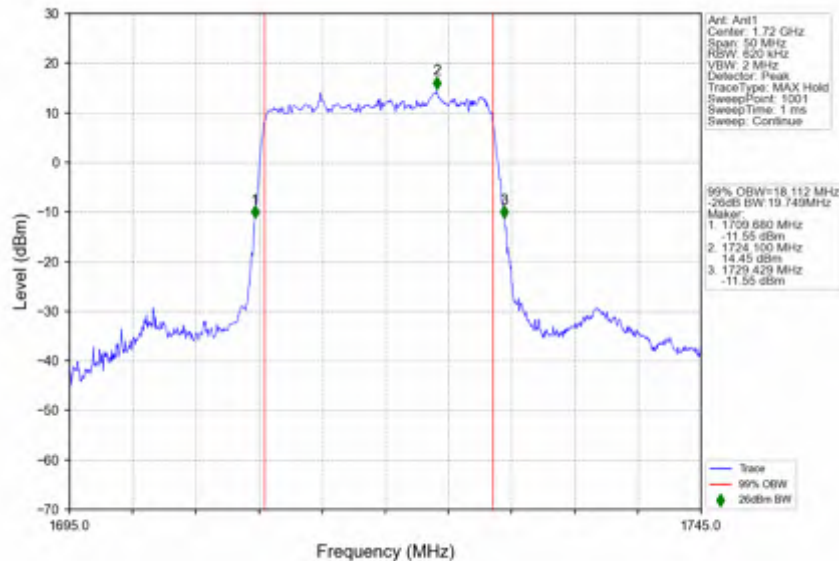
7.4 15k_SISO_20MHz_NTNV

7.4.1 Test Result

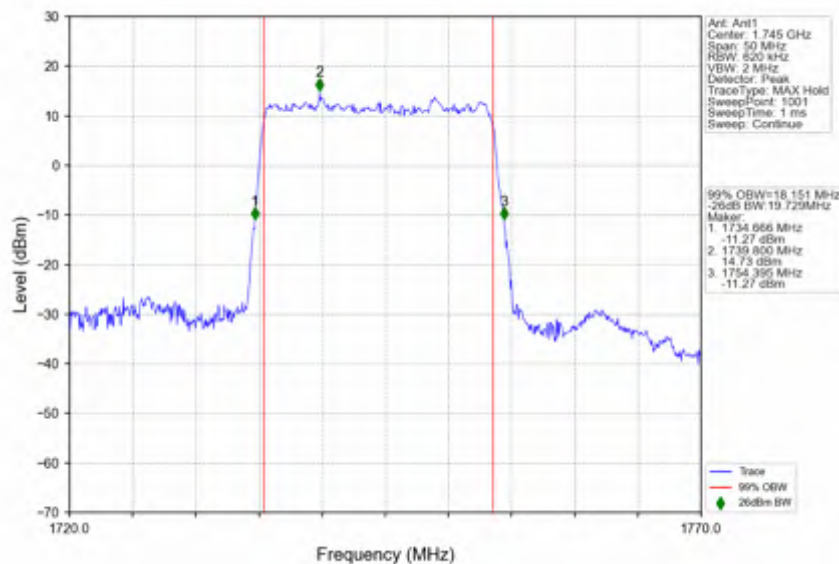
5G NR n66 SCS=15kHz SISO 20MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1720	Outer_Full	18.11	19.75	/	Pass
	1745	Outer_Full	18.15	19.73	/	Pass
	1770	Outer_Full	18.12	19.72	/	Pass
DFT-s-OFDM QPSK	1720	Outer_Full	18.05	19.68	/	Pass
	1745	Outer_Full	18.09	19.77	/	Pass
	1770	Outer_Full	18.04	19.64	/	Pass
DFT-s-OFDM 16 QAM	1720	Outer_Full	18.23	19.70	/	Pass
	1745	Outer_Full	18.22	19.67	/	Pass
	1770	Outer_Full	18.22	19.69	/	Pass
DFT-s-OFDM 64 QAM	1720	Outer_Full	18.10	19.82	/	Pass
	1745	Outer_Full	18.12	19.87	/	Pass
	1770	Outer_Full	18.10	19.70	/	Pass
DFT-s-OFDM 256 QAM	1720	Outer_Full	18.14	19.71	/	Pass
	1745	Outer_Full	18.12	19.79	/	Pass
	1770	Outer_Full	18.05	19.80	/	Pass
CP-OFDM QPSK	1720	Outer_Full	19.06	20.66	/	Pass
	1745	Outer_Full	19.14	20.76	/	Pass
	1770	Outer_Full	19.11	20.77	/	Pass
CP-OFDM 16 QAM	1720	Outer_Full	19.20	20.57	/	Pass
	1745	Outer_Full	19.27	20.59	/	Pass
	1770	Outer_Full	19.21	20.54	/	Pass
CP-OFDM 64 QAM	1720	Outer_Full	19.11	20.60	/	Pass
	1745	Outer_Full	19.13	20.57	/	Pass
	1770	Outer_Full	19.09	20.65	/	Pass
CP-OFDM 256 QAM	1720	Outer_Full	19.03	20.44	/	Pass
	1745	Outer_Full	19.10	20.64	/	Pass
	1770	Outer_Full	19.07	20.59	/	Pass

7.4.2 Test Graph

n66_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_PI/2_BPSK_1720MHz_Outer_Full



n66_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_PI/2_BPSK_1745MHz_Outer_Full



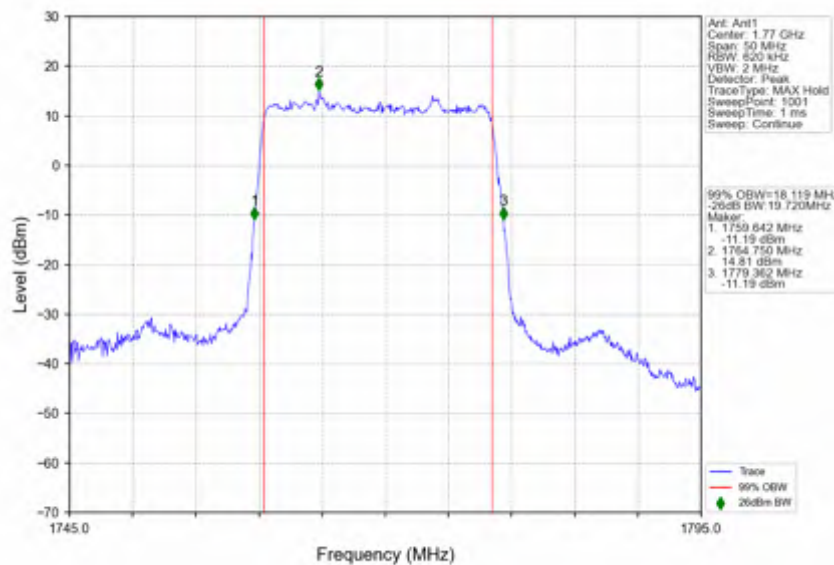
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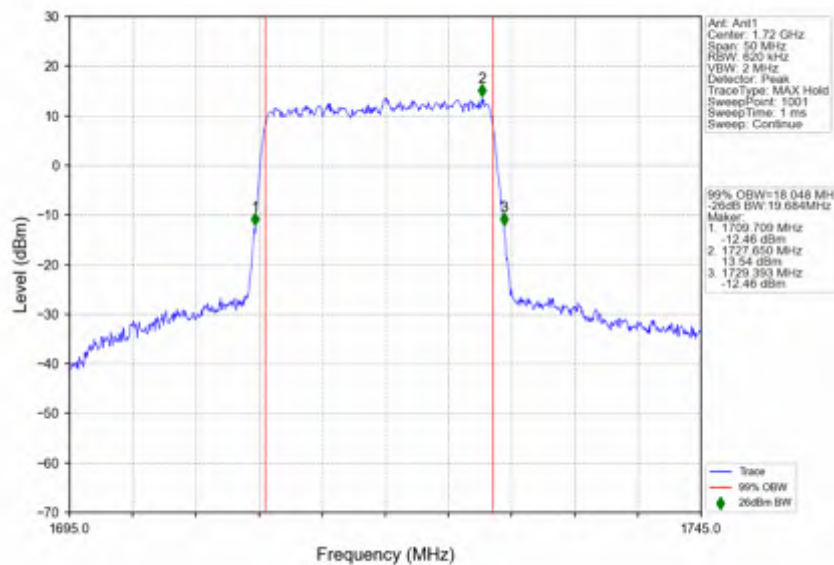
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n66_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_1770MHz_Outer_Full



n66_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_1720MHz_Outer_Full



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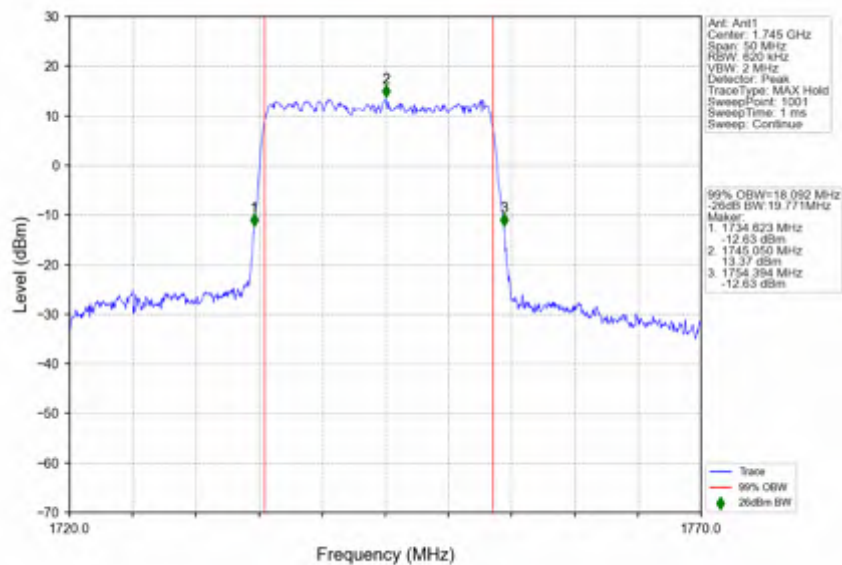
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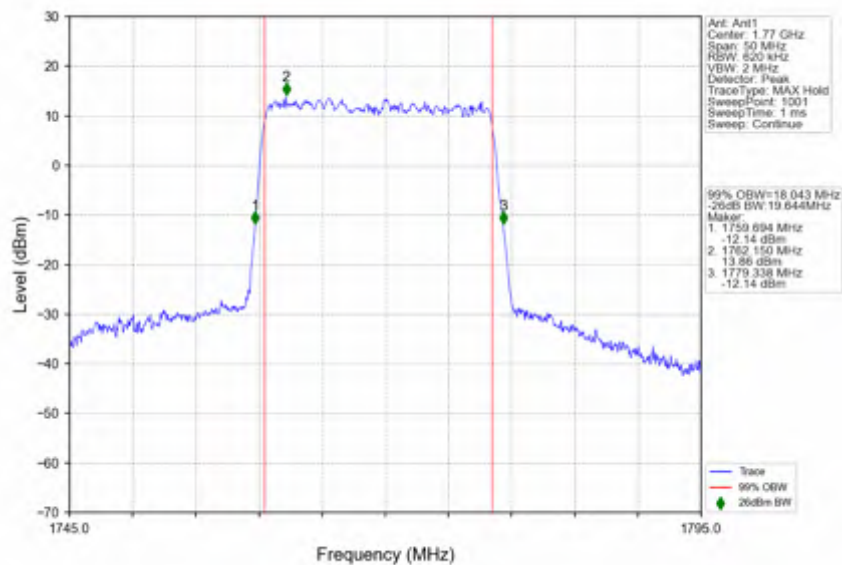
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n66_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_1745MHz_Outer_Full



n66_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_1770MHz_Outer_Full



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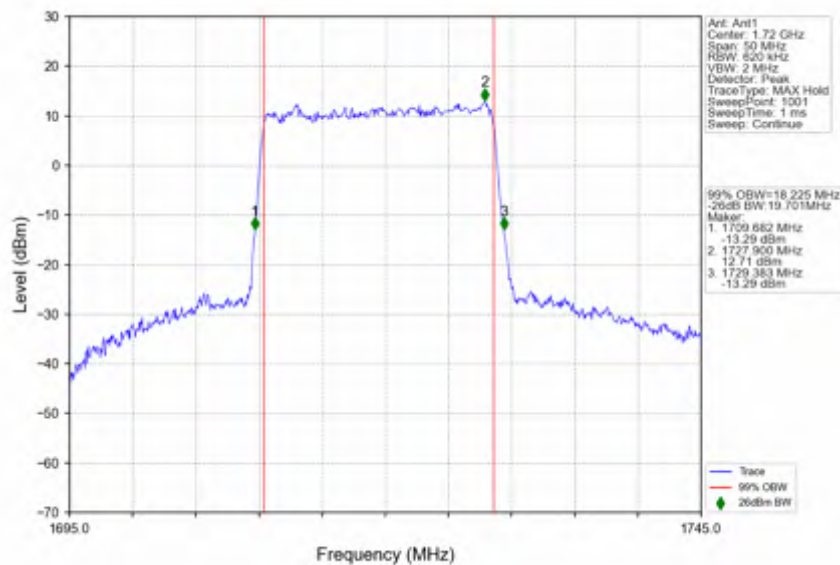
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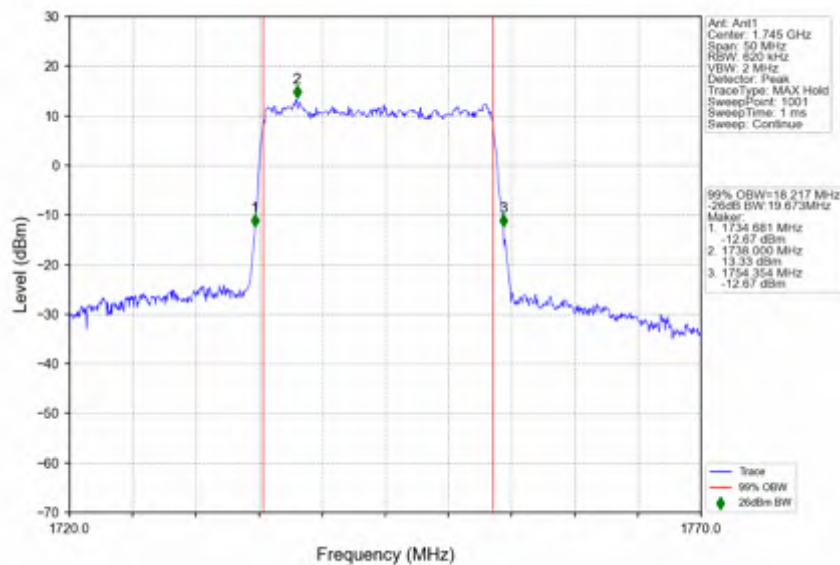
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n66_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_1745MHz_Outer_Full



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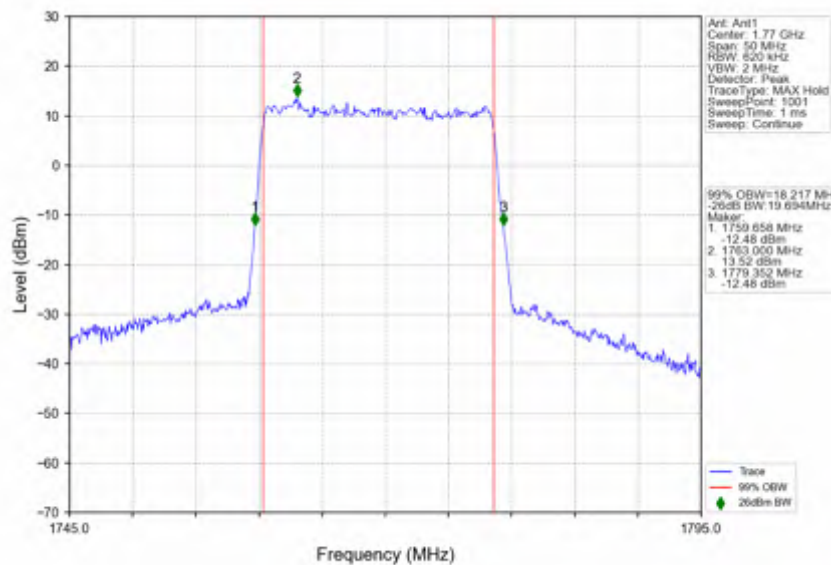
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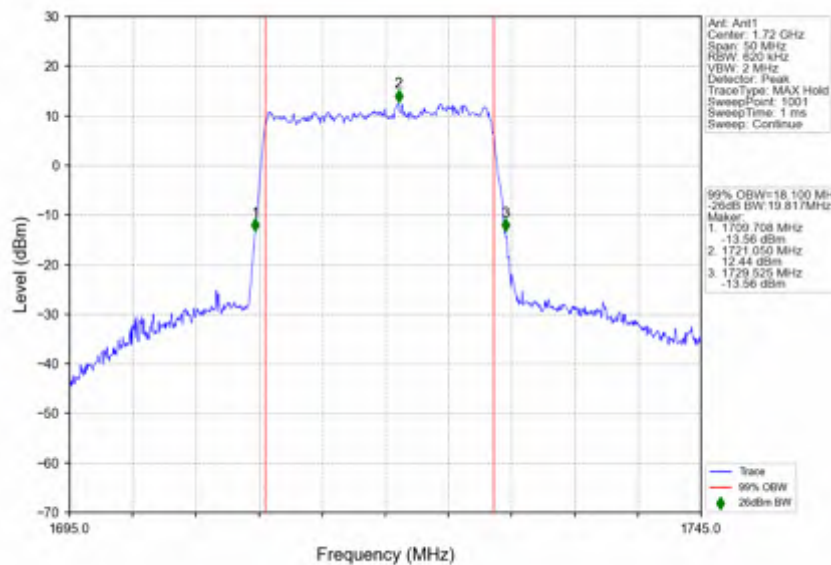
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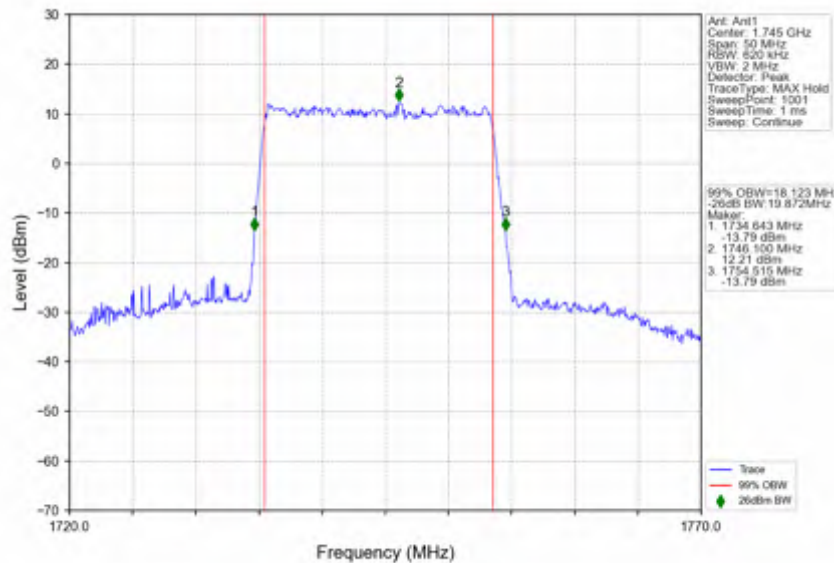


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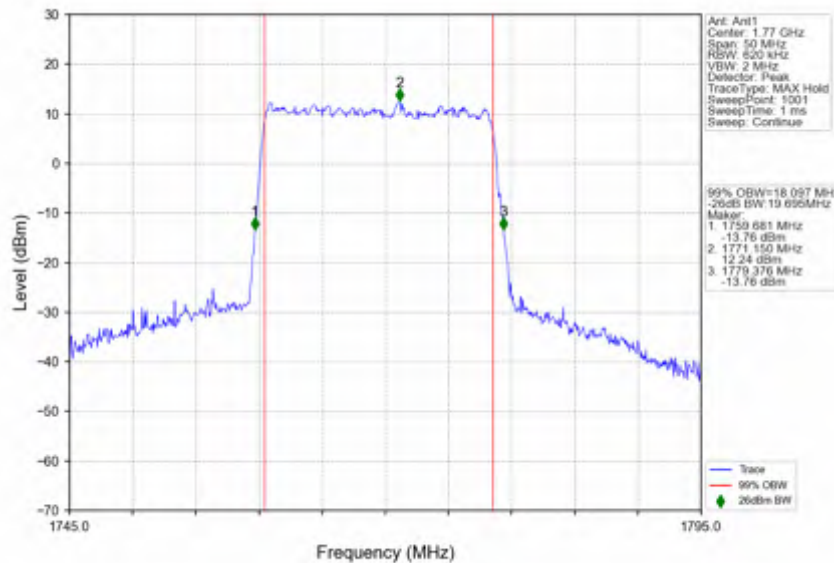
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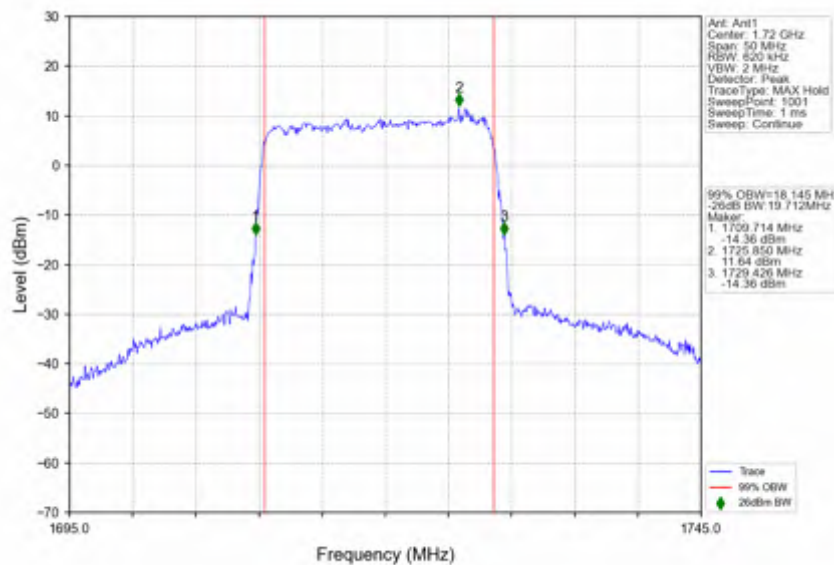
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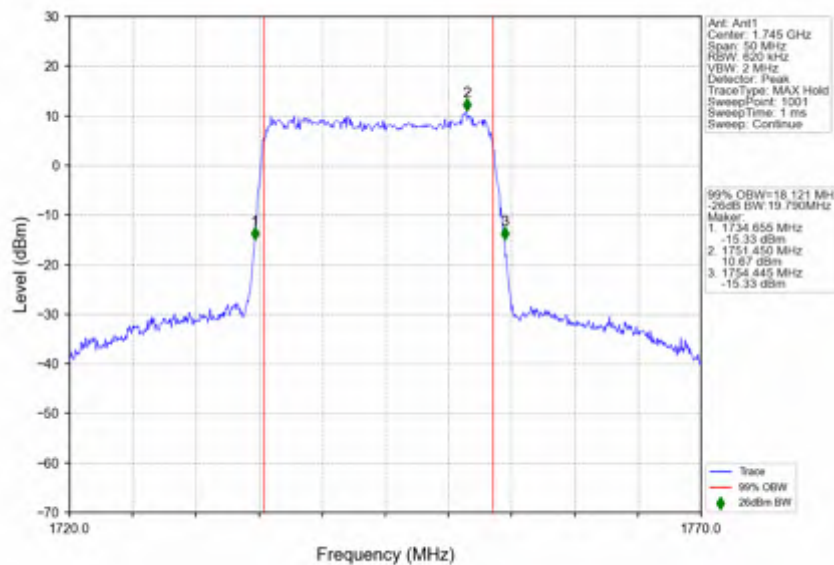
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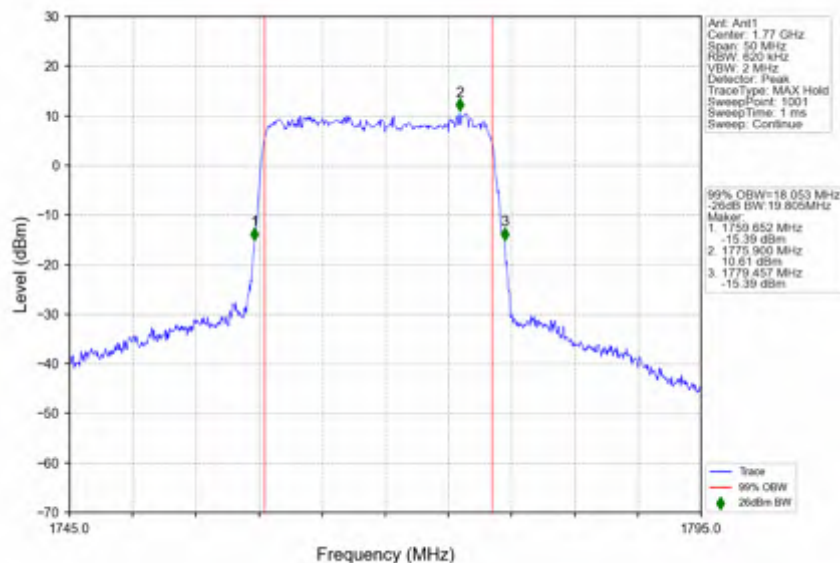


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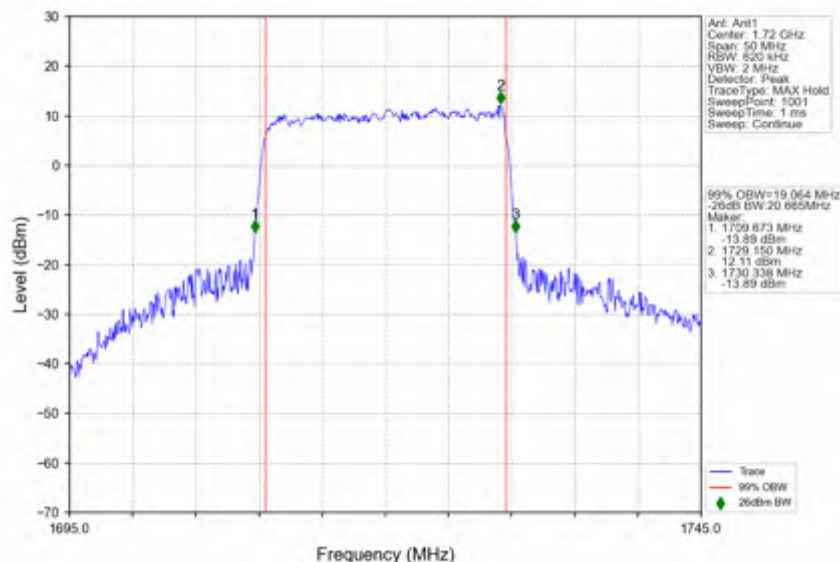
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n66_15kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_1720MHz_Outer_Full



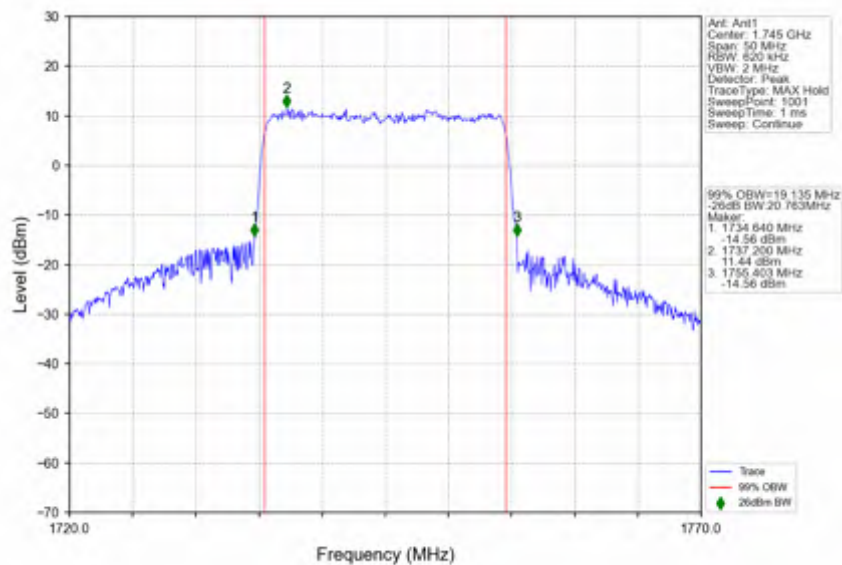
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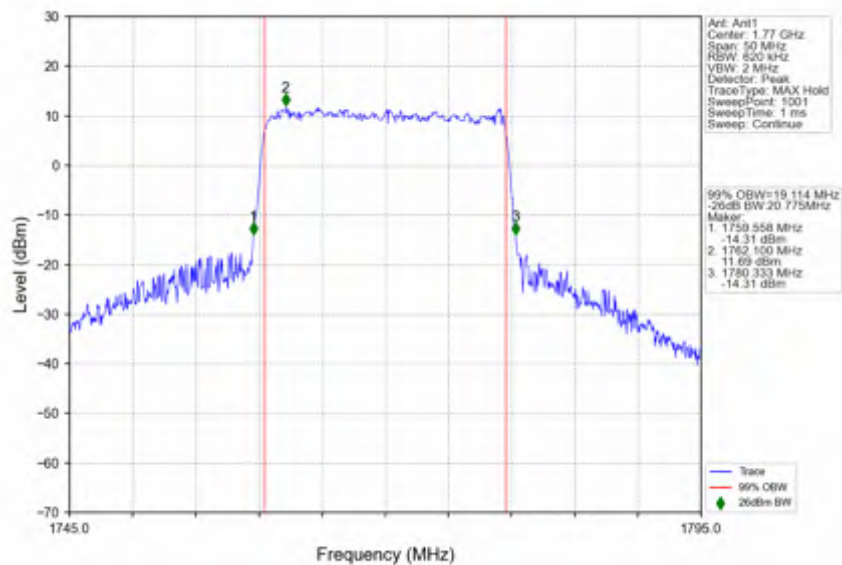
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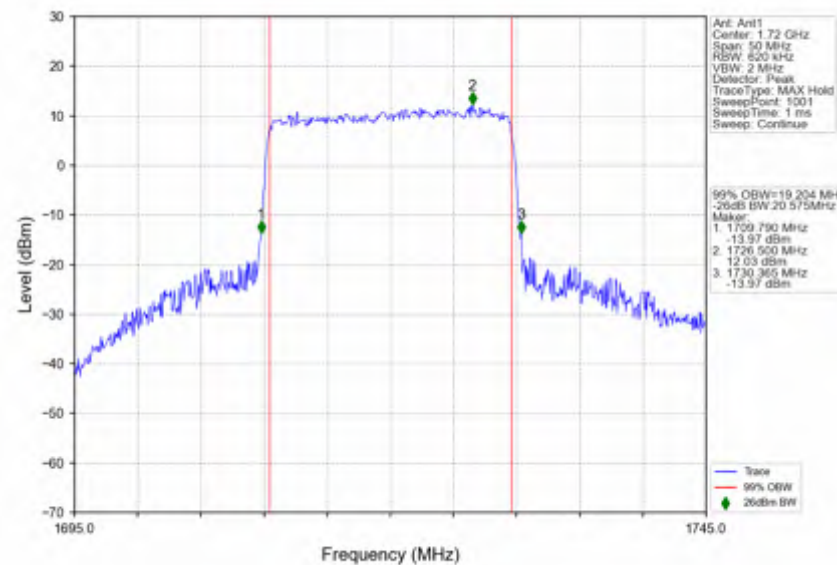


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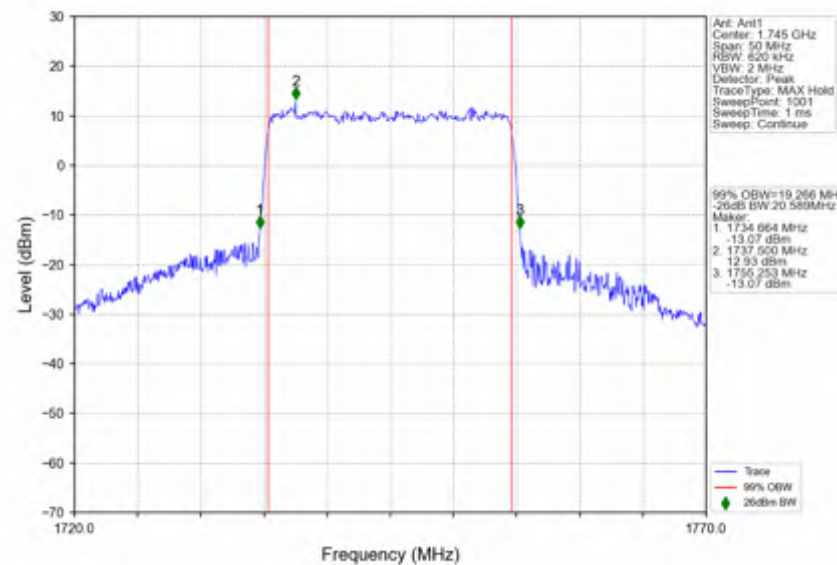
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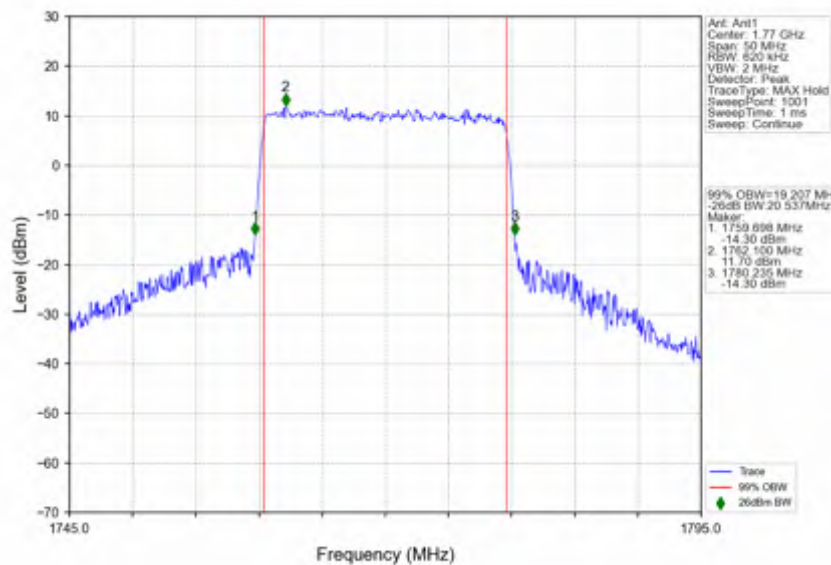
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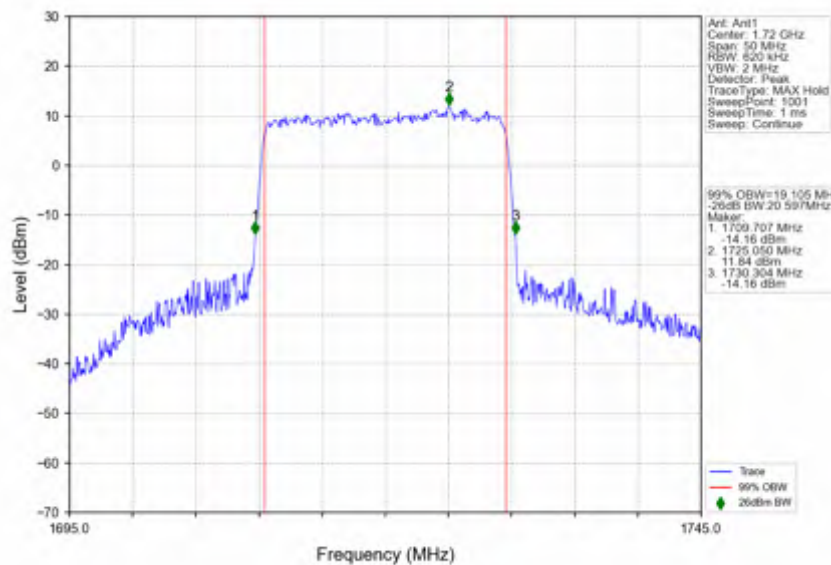
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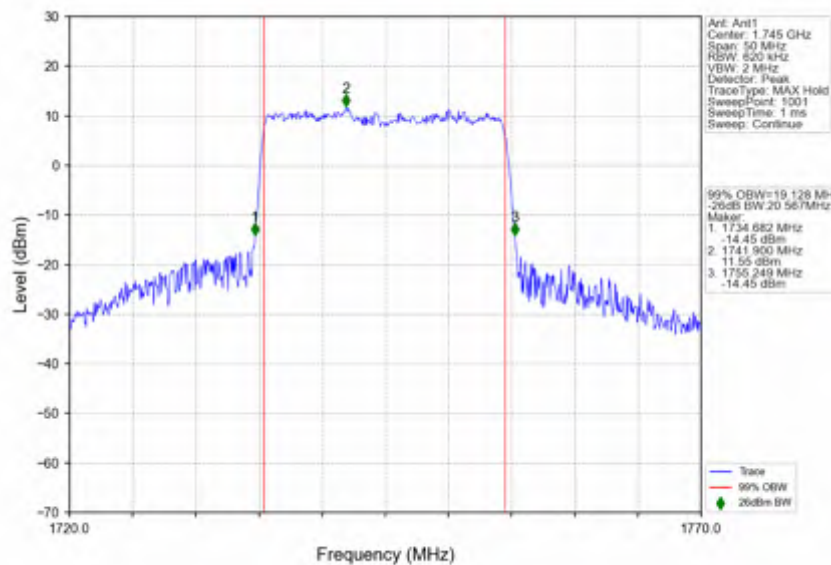
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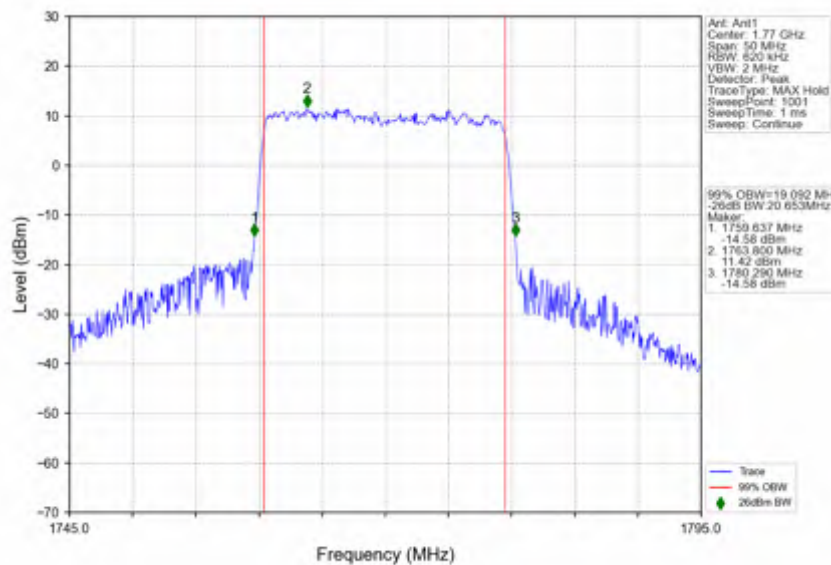
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n66_15kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_1745MHz_Outer_Full



n66_15kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_1770MHz_Outer_Full



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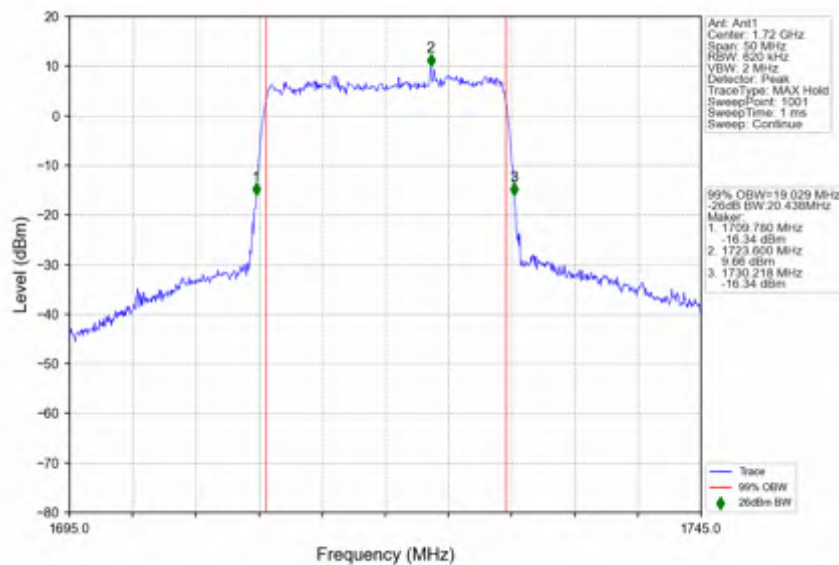
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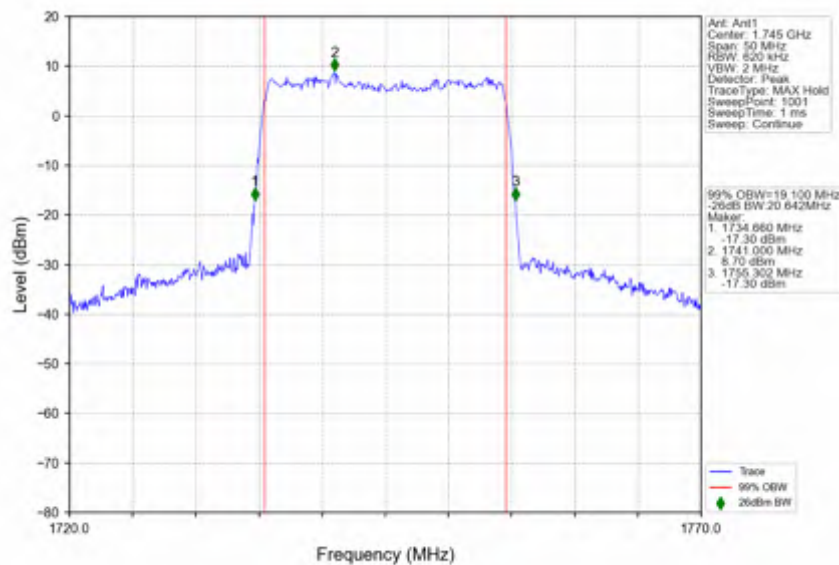
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n66_15kHz_SISO_NTNV_20MHz_CP-OFDM_256_QAM_1720MHz_Outer_Full



n66	15kHz	SISO	NTNV	20MHz	CP-OFDM	256 QAM	1745MHz	Outer	Full
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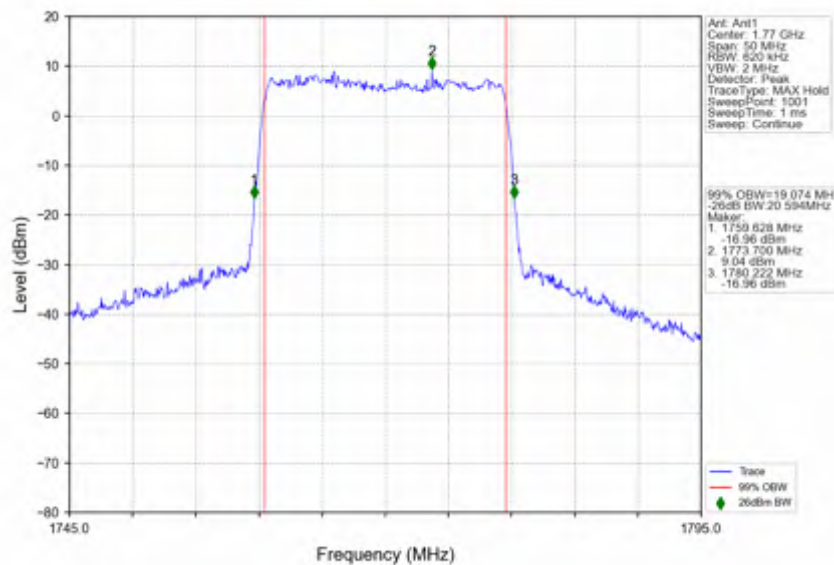


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n66_15kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_1770MHz_Outer_Full



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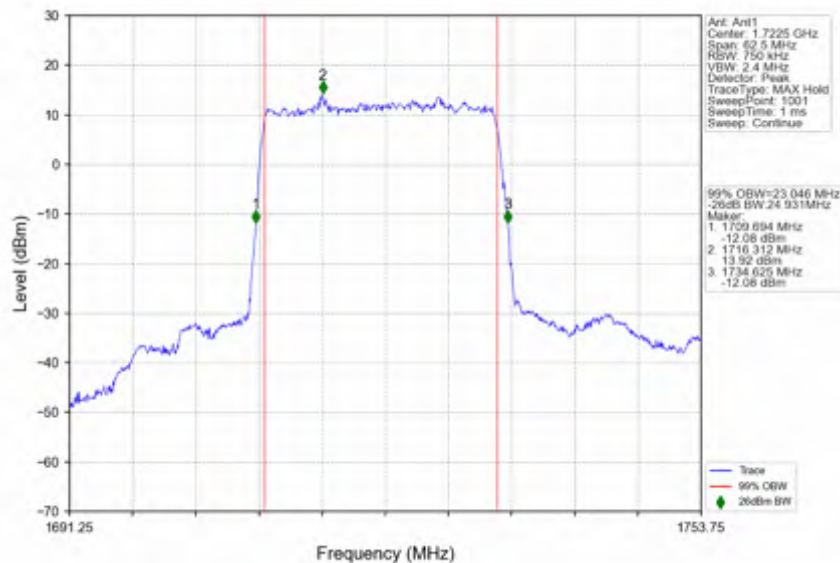
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**7.5 15k_SISO_25MHz_NTNV****7.5.1 Test Result**

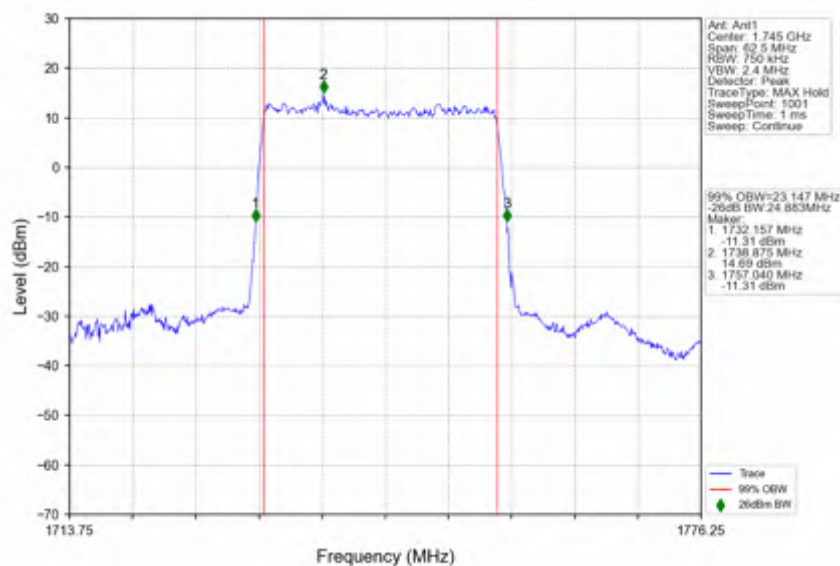
5G NR n66 SCS=15kHz SISO 25MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1722.5	Outer_Full	23.05	24.93	/	Pass
	1745	Outer_Full	23.15	24.88	/	Pass
	1767.5	Outer_Full	23.08	24.84	/	Pass
DFT-s-OFDM QPSK	1722.5	Outer_Full	23.11	24.86	/	Pass
	1745	Outer_Full	23.24	25.00	/	Pass
	1767.5	Outer_Full	23.11	24.91	/	Pass
DFT-s-OFDM 16 QAM	1722.5	Outer_Full	22.98	24.84	/	Pass
	1745	Outer_Full	23.10	24.92	/	Pass
	1767.5	Outer_Full	23.01	24.91	/	Pass
DFT-s-OFDM 64 QAM	1722.5	Outer_Full	22.98	24.88	/	Pass
	1745	Outer_Full	23.11	25.06	/	Pass
	1767.5	Outer_Full	23.00	24.86	/	Pass
DFT-s-OFDM 256 QAM	1722.5	Outer_Full	22.97	24.89	/	Pass
	1745	Outer_Full	23.08	24.73	/	Pass
	1767.5	Outer_Full	23.00	24.82	/	Pass
CP-OFDM QPSK	1722.5	Outer_Full	23.87	25.64	/	Pass
	1745	Outer_Full	24.02	25.79	/	Pass
	1767.5	Outer_Full	23.93	25.64	/	Pass
CP-OFDM 16 QAM	1722.5	Outer_Full	23.87	25.67	/	Pass
	1745	Outer_Full	24.01	25.75	/	Pass
	1767.5	Outer_Full	23.90	25.69	/	Pass
CP-OFDM 64 QAM	1722.5	Outer_Full	23.90	25.59	/	Pass
	1745	Outer_Full	24.05	25.64	/	Pass
	1767.5	Outer_Full	23.95	25.63	/	Pass
CP-OFDM 256 QAM	1722.5	Outer_Full	23.88	25.61	/	Pass
	1745	Outer_Full	24.04	25.65	/	Pass
	1767.5	Outer_Full	23.91	25.61	/	Pass

7.5.2 Test Graph

n66_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_1722.5MHz_Outer_Full



n66_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_1745MHz_Outer_Full



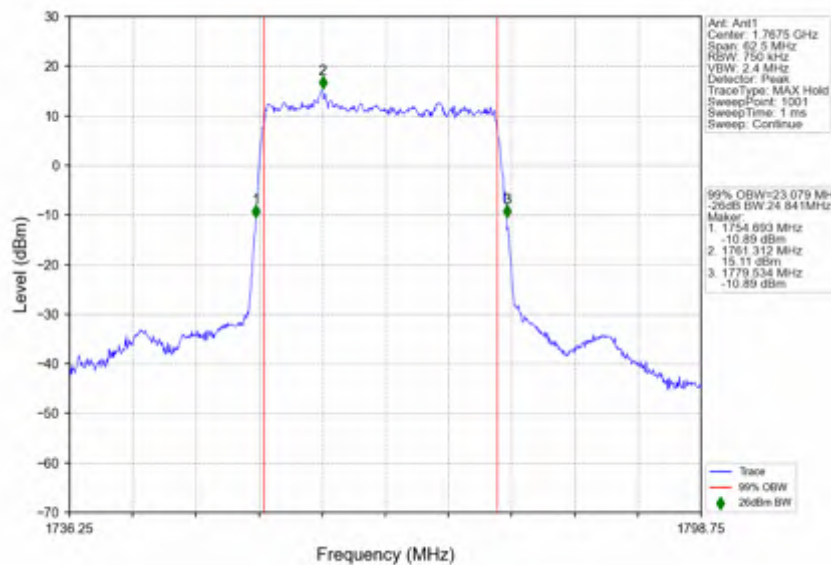
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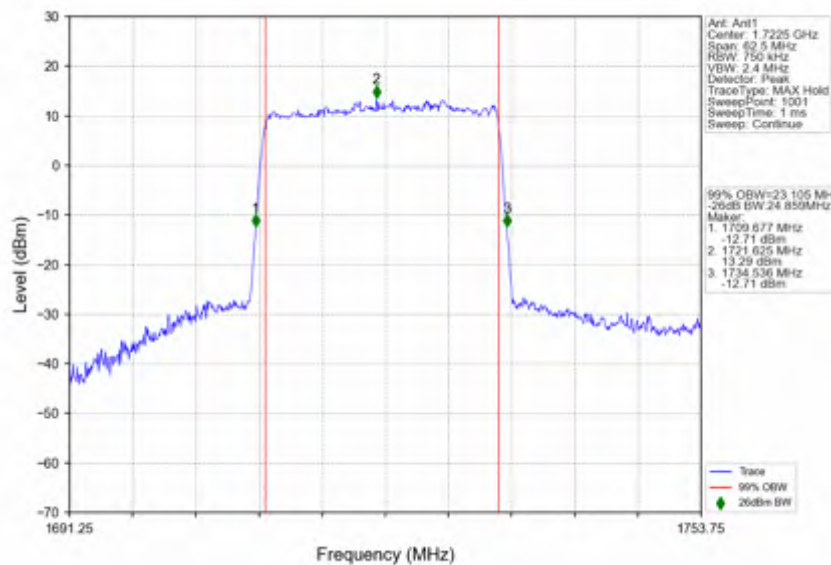
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n66_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_1767.5MHz_Outer_Full



n66_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_1722.5MHz_Outer_Full



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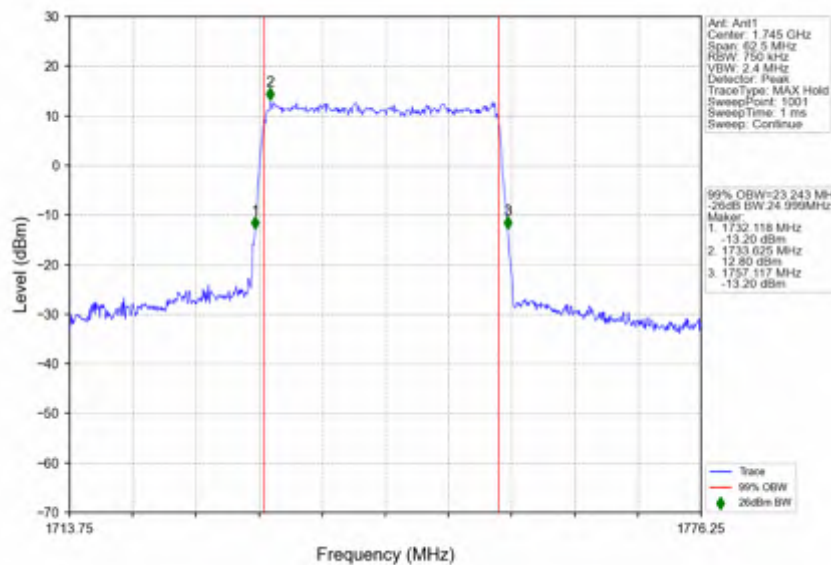
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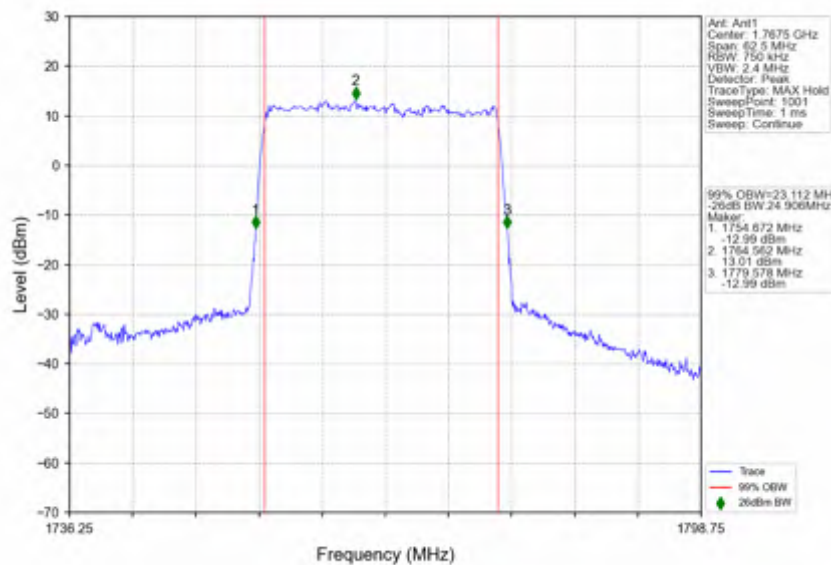
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n66_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_1745MHz_Outer_Full



n66_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_1767.5MHz_Outer_Full



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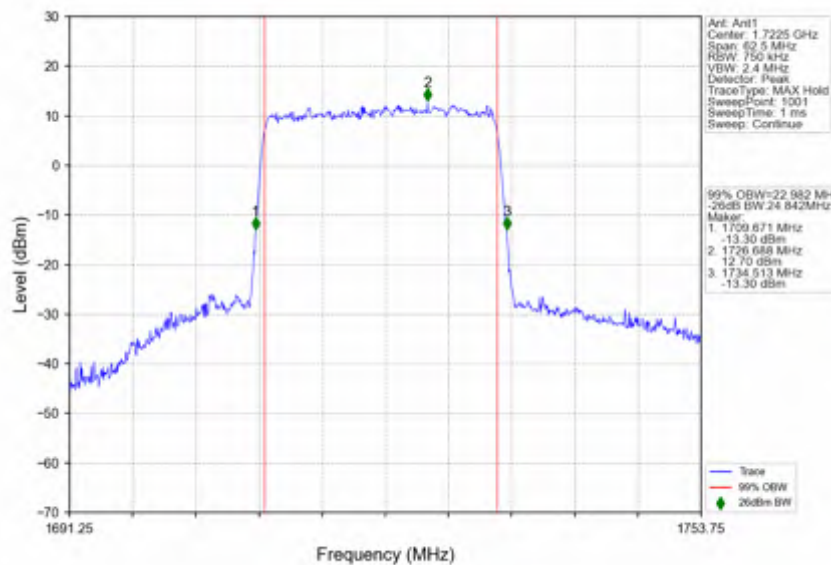
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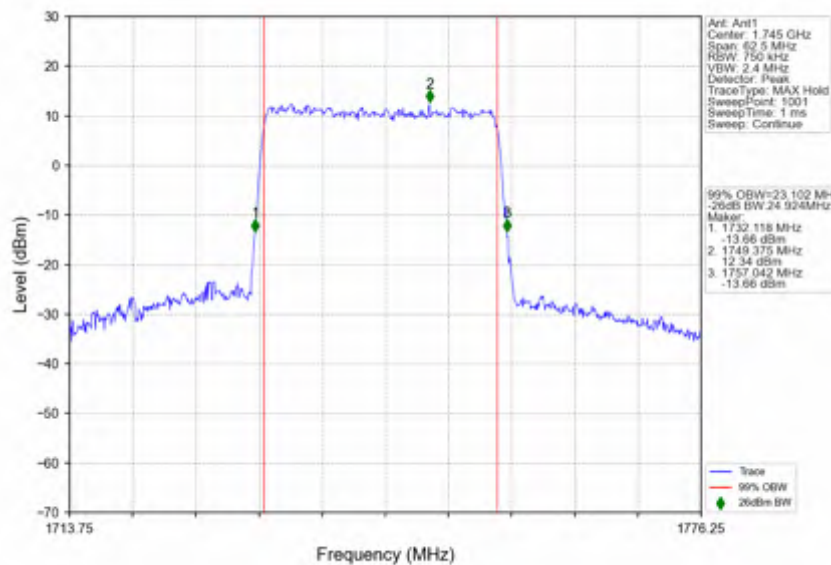
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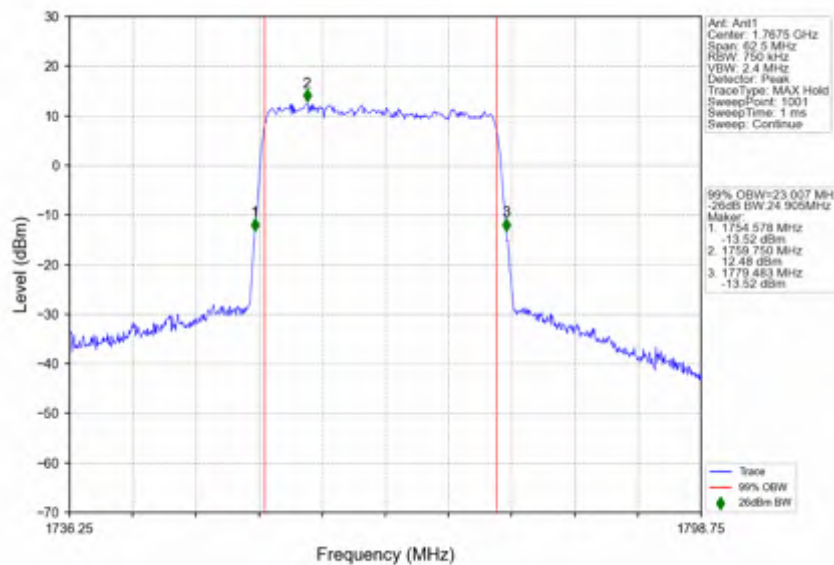


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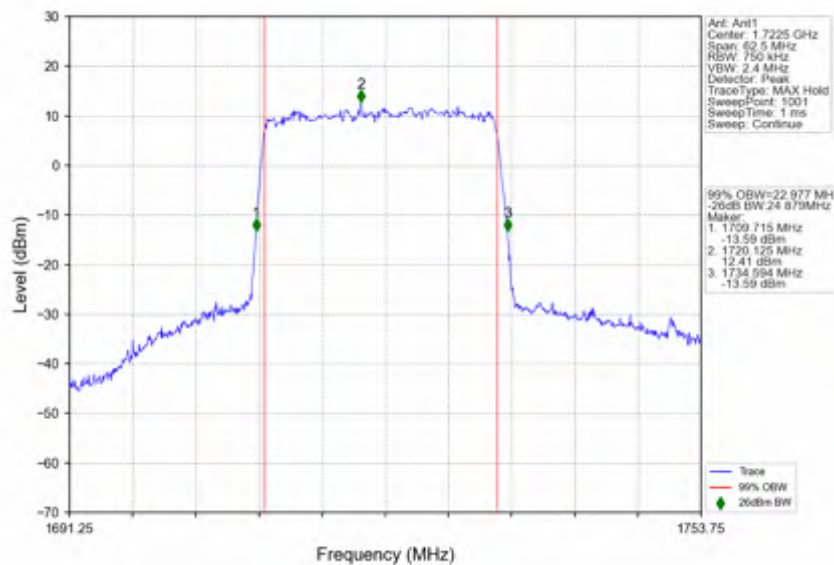
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n66_15kHz_SISO_NTV_25MHz_DFT-s-OFDM_16 QAM_1767.5MHz_Outer_Full



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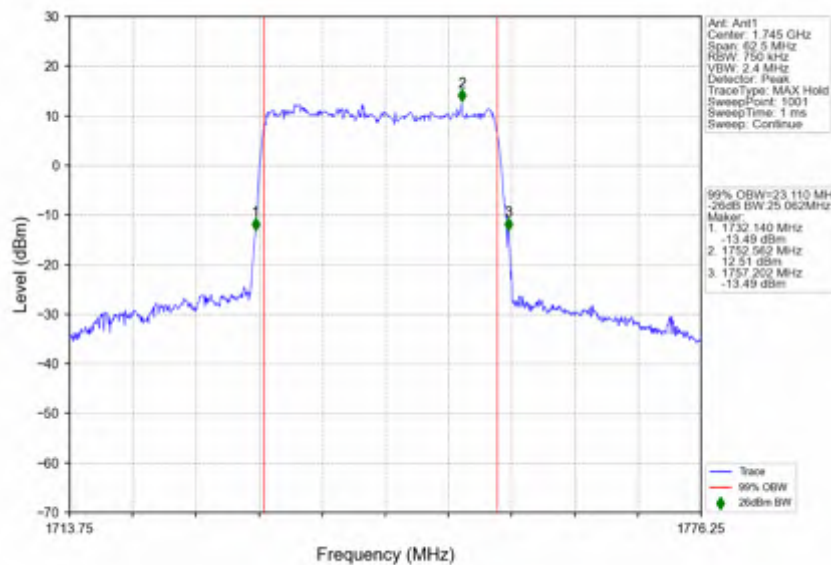
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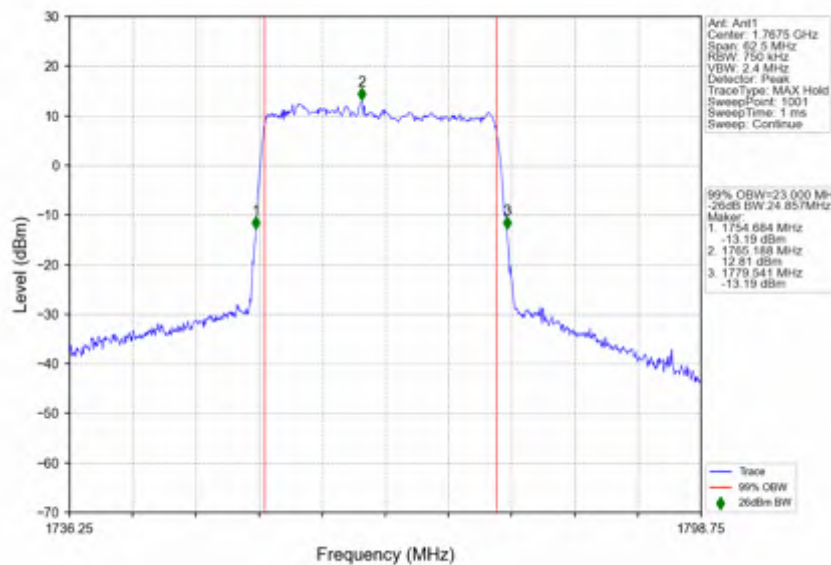
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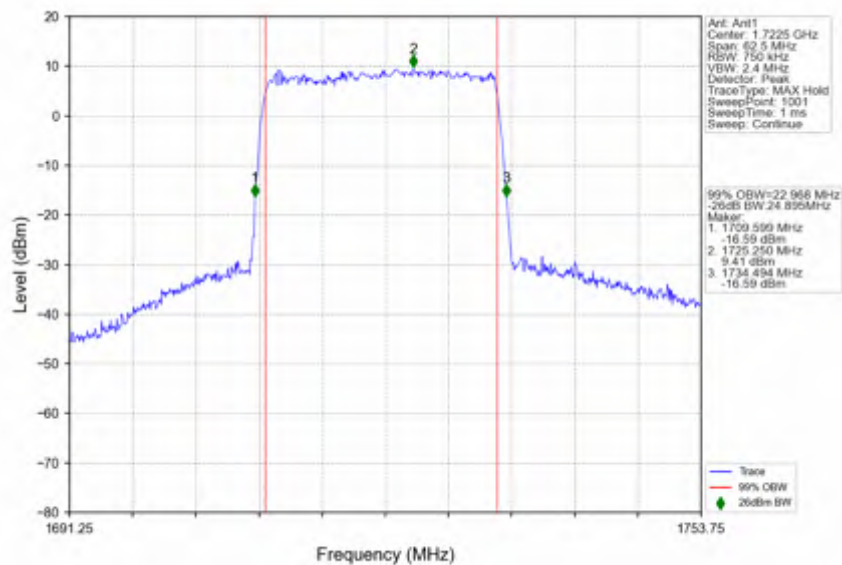
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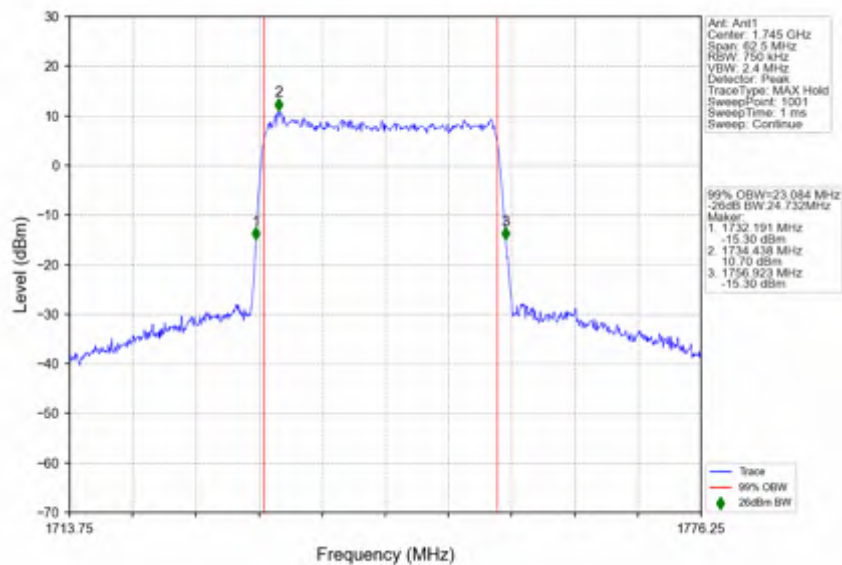
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n66	15kHz	SISO	NTNV	25MHz	DFT-s-OFDM	256	QAM	1722.5MHz	Outer	Full
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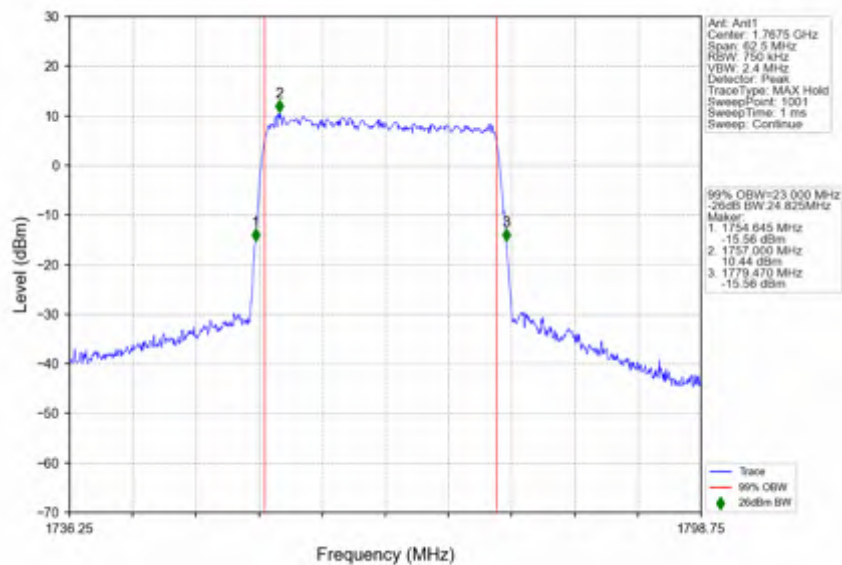


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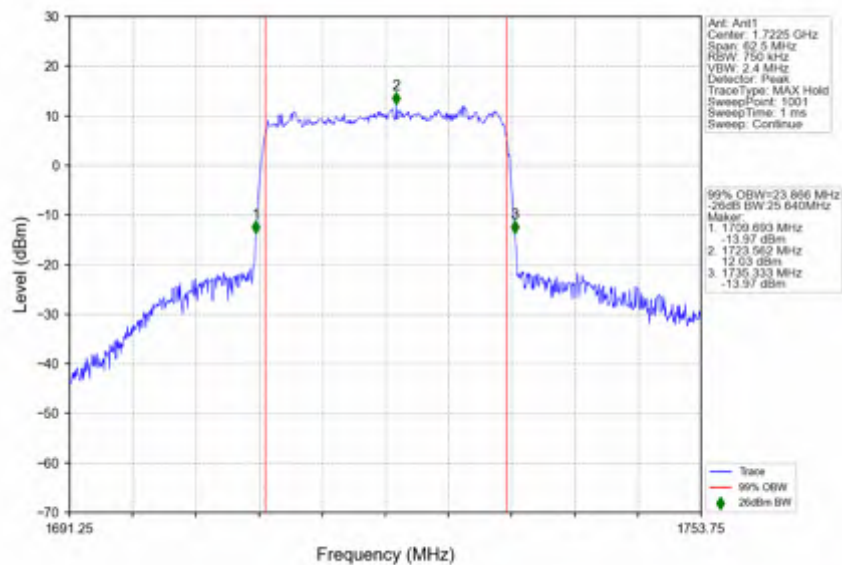
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n66_15kHz_SISO_NTNV_25MHz_CP-OFDM_QPSK_1722.5MHz_Outer_Full

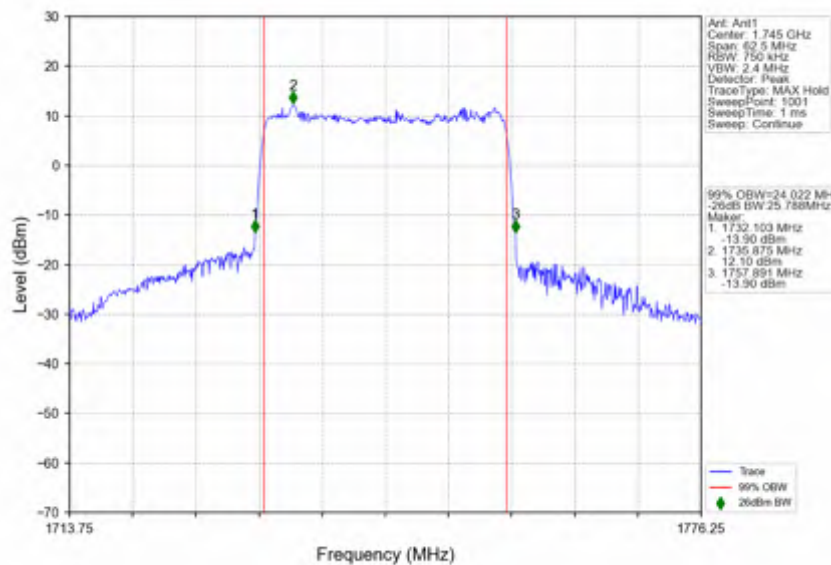


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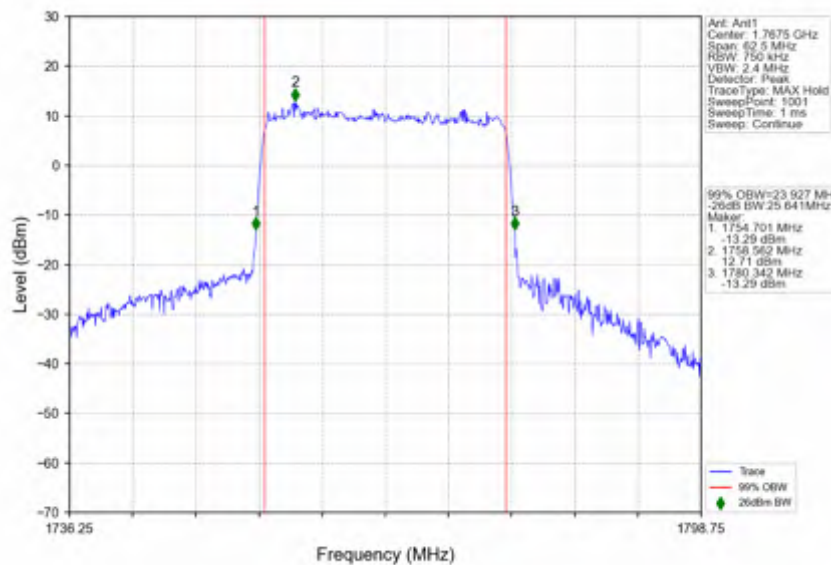
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n66_15kHz_SISO_NTNV_25MHz_CP-OFDM QPSK_1745MHz_Outer_Full



n66_15kHz_SISO_NTNV_25MHz_CP-OFDM QPSK_1767.5MHz_Outer_Full



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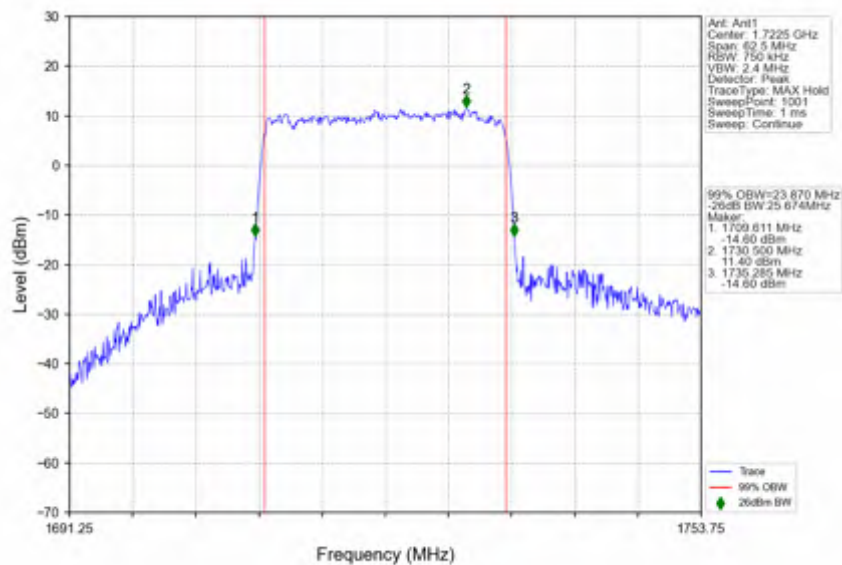
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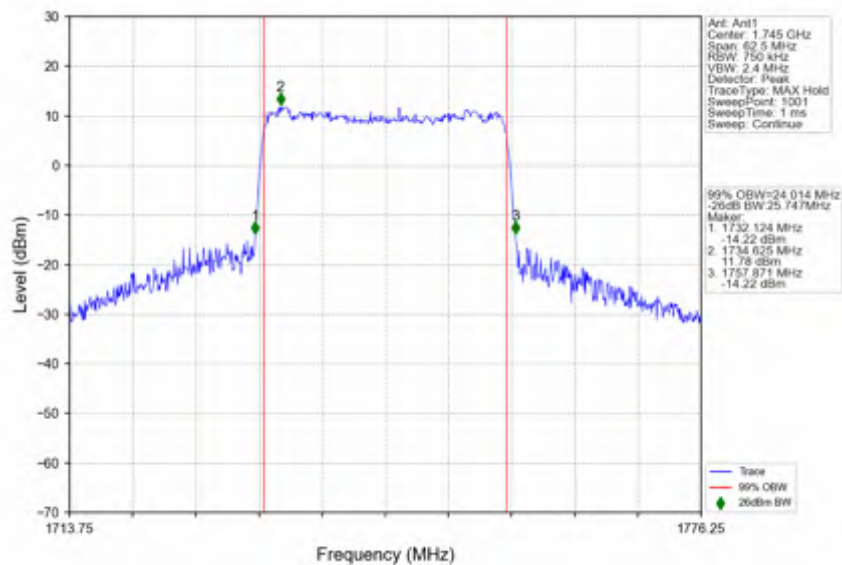
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n66_15kHz_SISO_NTNV_25MHz_CP-OFDM_16 QAM_1722.5MHz_Outer_Full



n66_15kHz_SISO_NTNV_25MHz_CP-OFDM_16 QAM_1745MHz_Outer_Full



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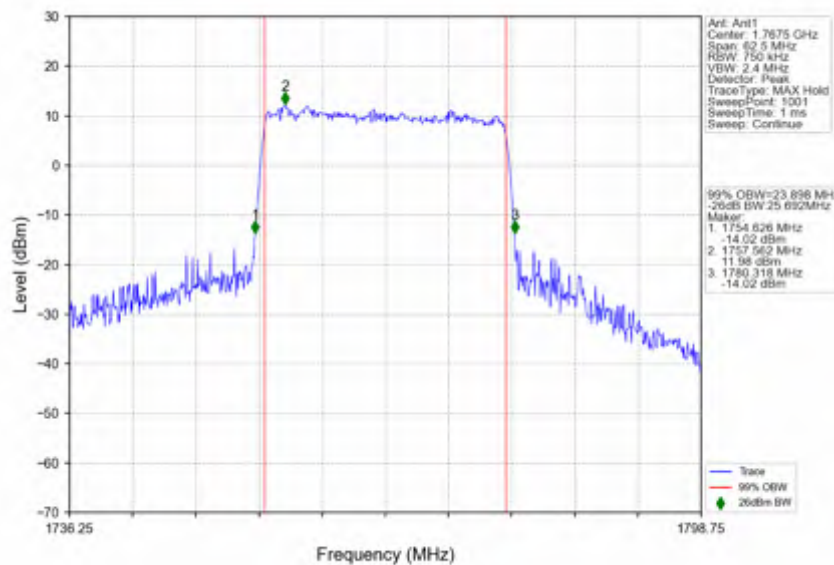
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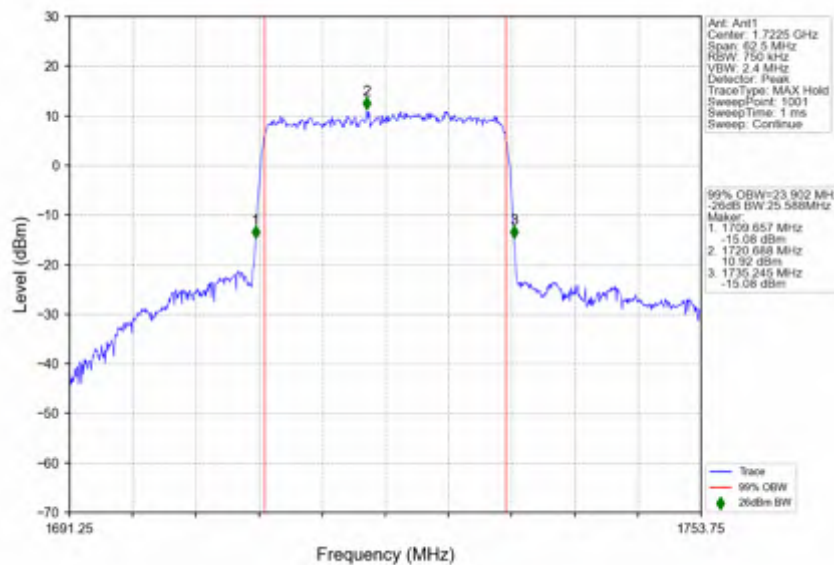
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n66_15kHz_SISO_NTNV_25MHz_CP-OFDM 16 QAM_1767.5MHz_Outer_Full



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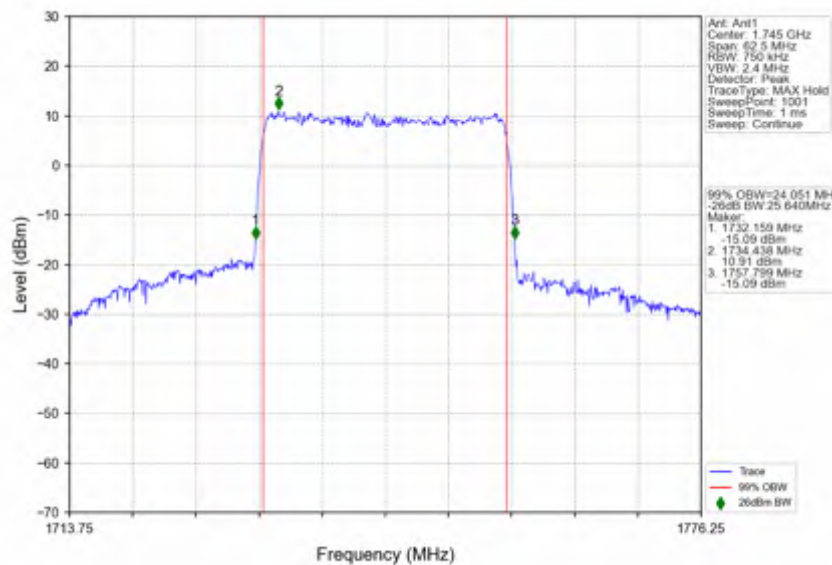
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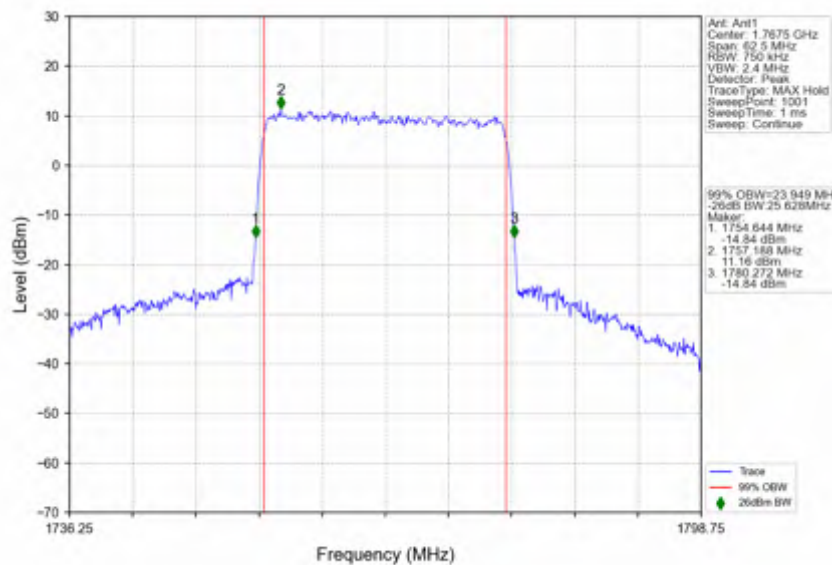
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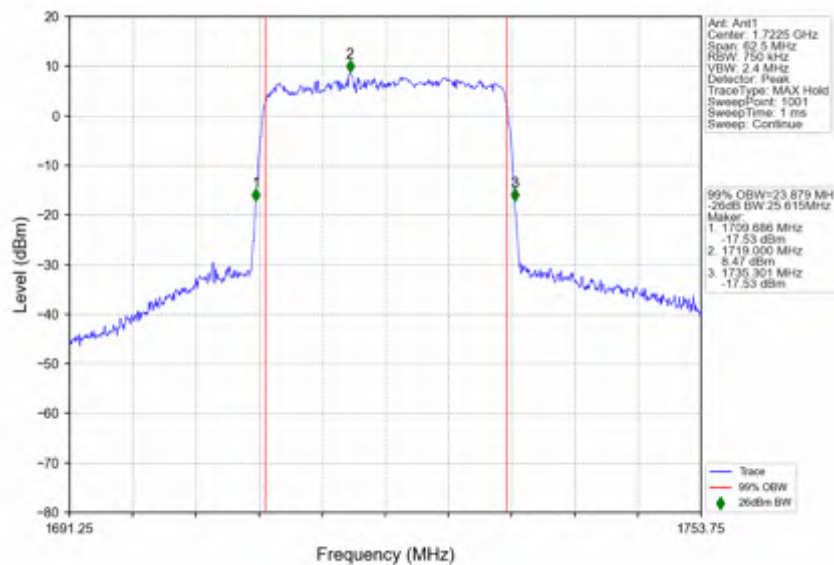
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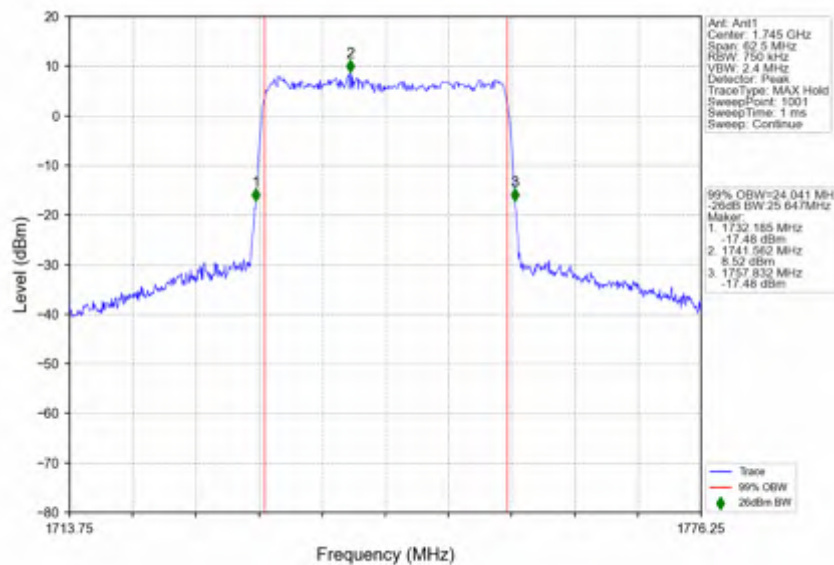
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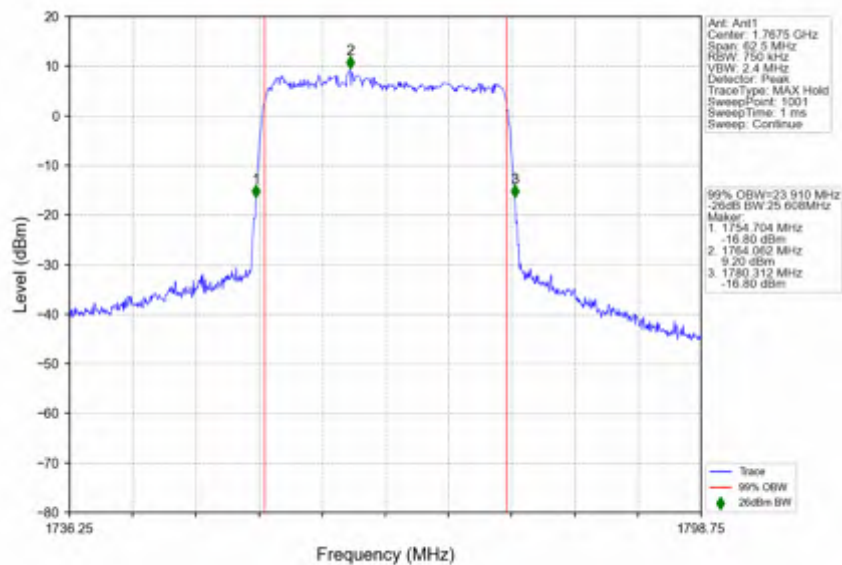
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7.6 15k_SISO_30MHz_NTNV

7.6.1 Test Result

5G NR n66 SCS=15kHz SISO 30MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1725	Outer_Full	28.77	30.78	/	Pass
	1745	Outer_Full	28.90	30.87	/	Pass
	1765	Outer_Full	28.73	30.81	/	Pass
DFT-s-OFDM QPSK	1725	Outer_Full	28.77	30.85	/	Pass
	1745	Outer_Full	28.96	30.89	/	Pass
	1765	Outer_Full	28.85	30.92	/	Pass
DFT-s-OFDM 16 QAM	1725	Outer_Full	28.53	30.81	/	Pass
	1745	Outer_Full	28.81	30.96	/	Pass
	1765	Outer_Full	28.67	30.80	/	Pass
DFT-s-OFDM 64 QAM	1725	Outer_Full	28.64	30.78	/	Pass
	1745	Outer_Full	28.89	30.82	/	Pass
	1765	Outer_Full	28.68	30.75	/	Pass
DFT-s-OFDM 256 QAM	1725	Outer_Full	28.73	30.82	/	Pass
	1745	Outer_Full	28.95	30.89	/	Pass
	1765	Outer_Full	28.81	30.89	/	Pass
CP-OFDM QPSK	1725	Outer_Full	28.65	30.80	/	Pass
	1745	Outer_Full	28.91	31.00	/	Pass
	1765	Outer_Full	28.72	30.78	/	Pass
CP-OFDM 16 QAM	1725	Outer_Full	28.61	30.72	/	Pass
	1745	Outer_Full	28.87	30.81	/	Pass
	1765	Outer_Full	28.66	30.77	/	Pass
CP-OFDM 64 QAM	1725	Outer_Full	28.67	30.72	/	Pass
	1745	Outer_Full	28.91	30.88	/	Pass
	1765	Outer_Full	28.66	30.76	/	Pass
CP-OFDM 256 QAM	1725	Outer_Full	28.62	30.77	/	Pass
	1745	Outer_Full	28.83	30.84	/	Pass
	1765	Outer_Full	28.68	30.76	/	Pass



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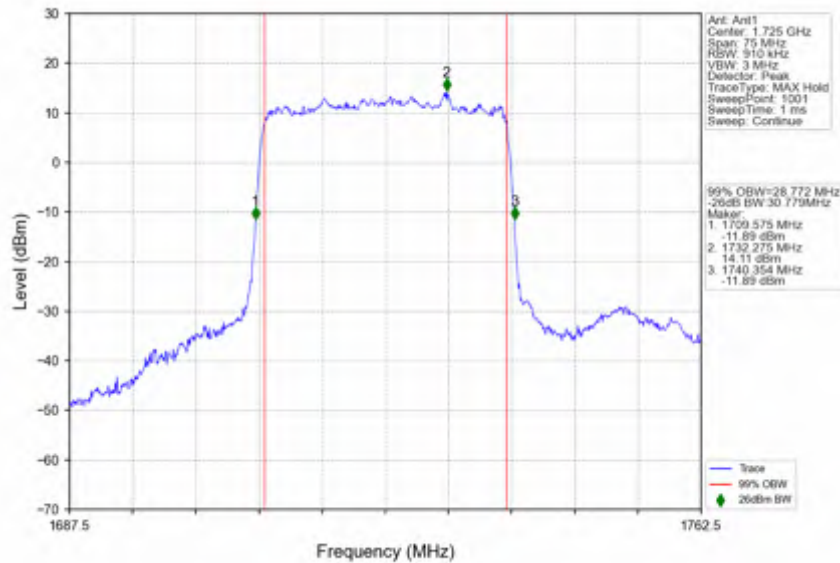
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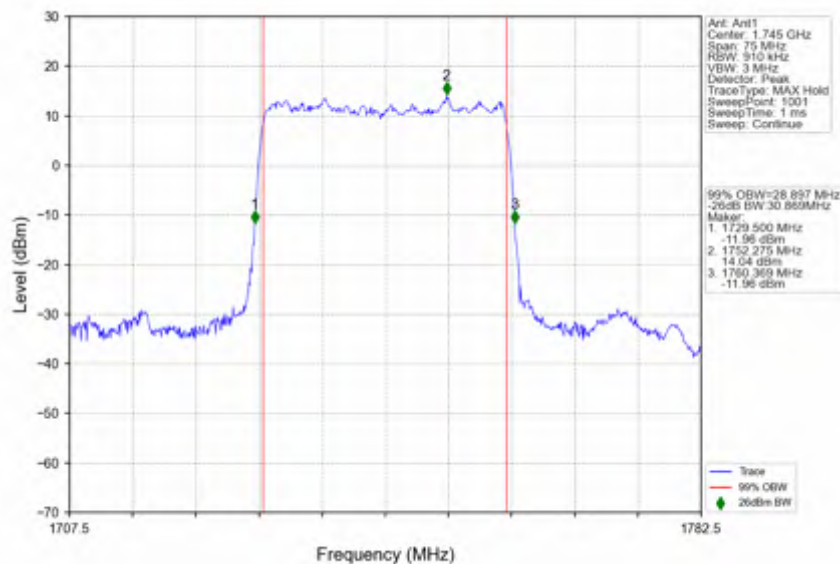
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7.6.2 Test Graph

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n66_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_PI/2_BPSK_1745MHz_Outer_Full



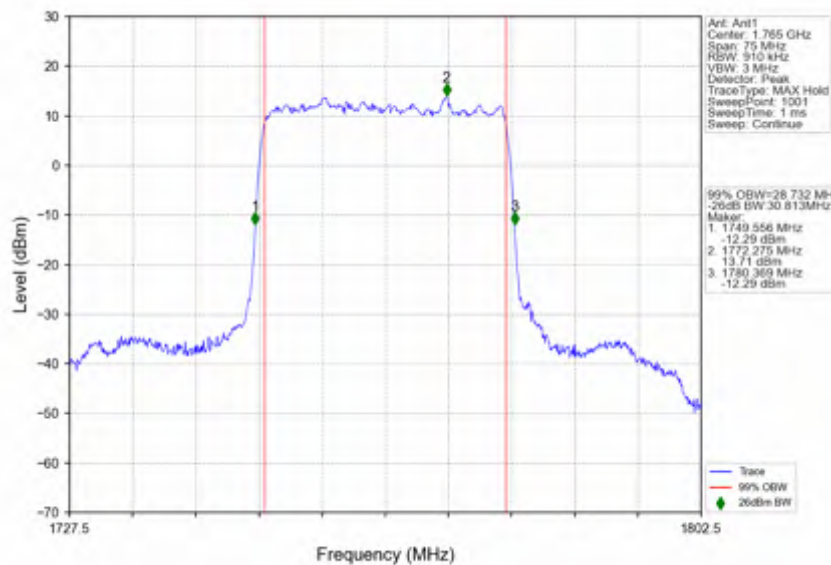
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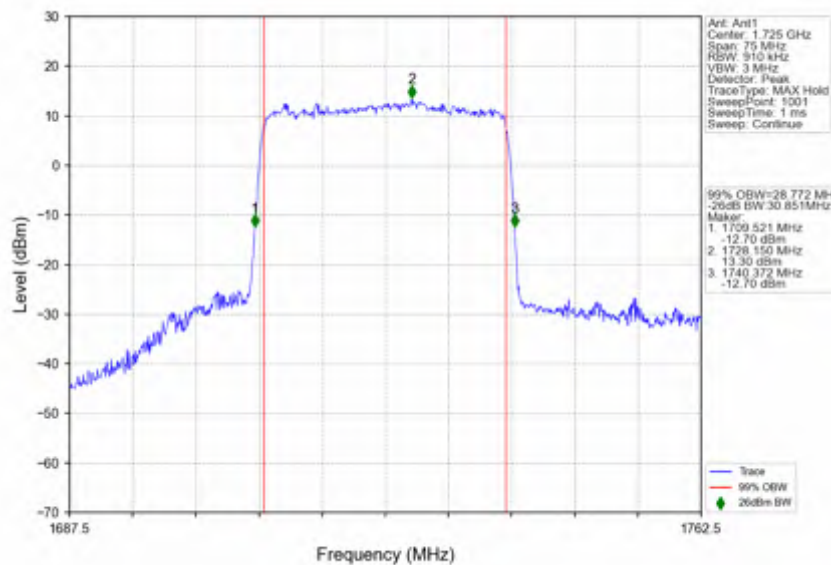
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n66_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_PI/2_BPSK_1765MHz_Outer_Full



n66_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_QPSK_1725MHz_Outer_Full



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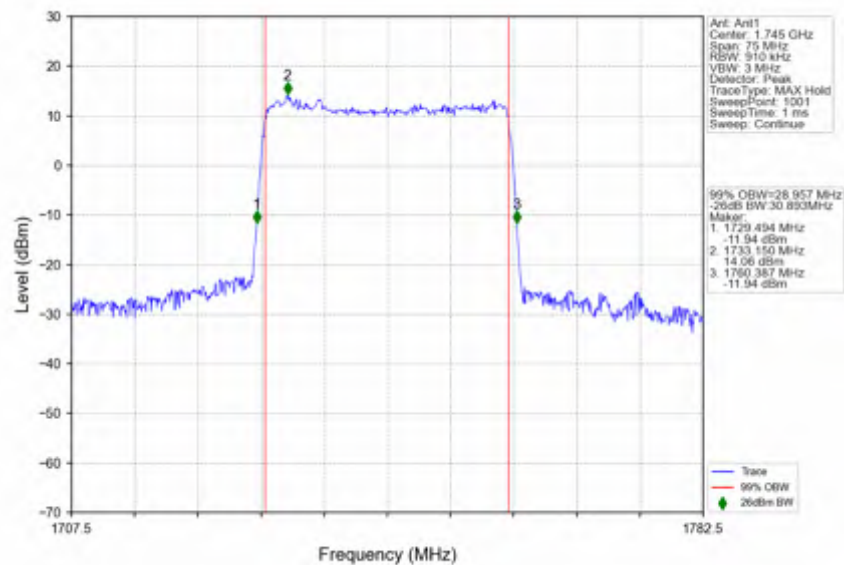
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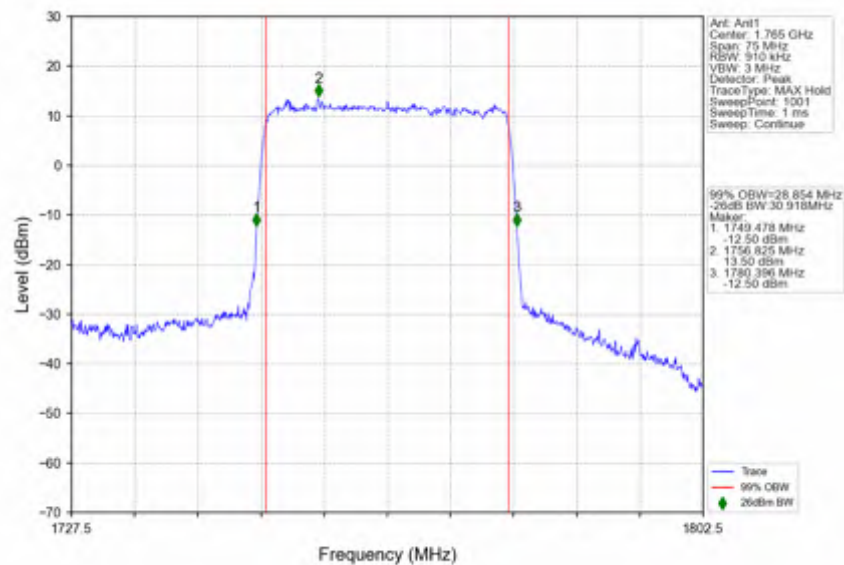
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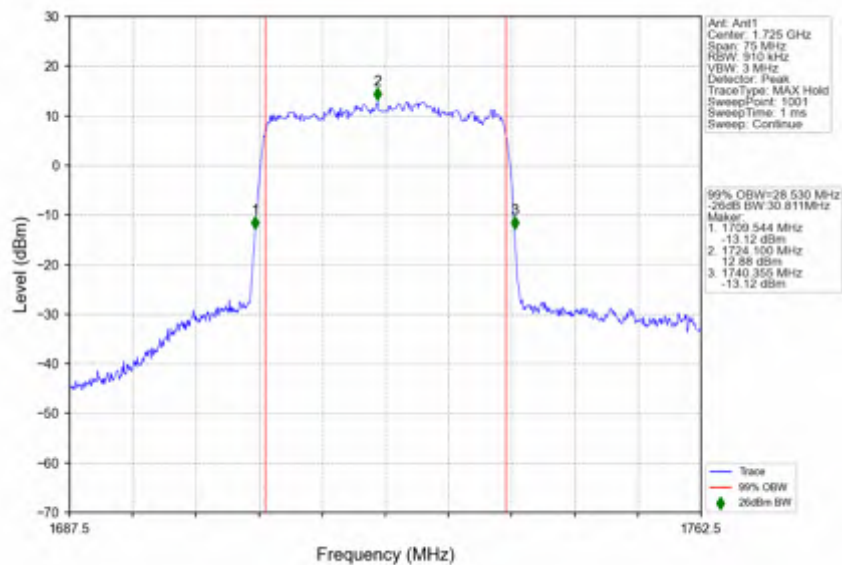
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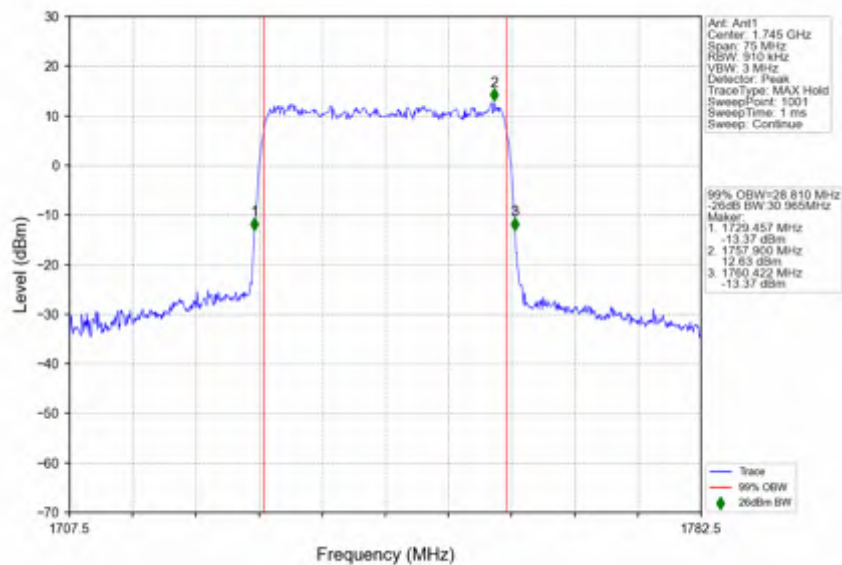
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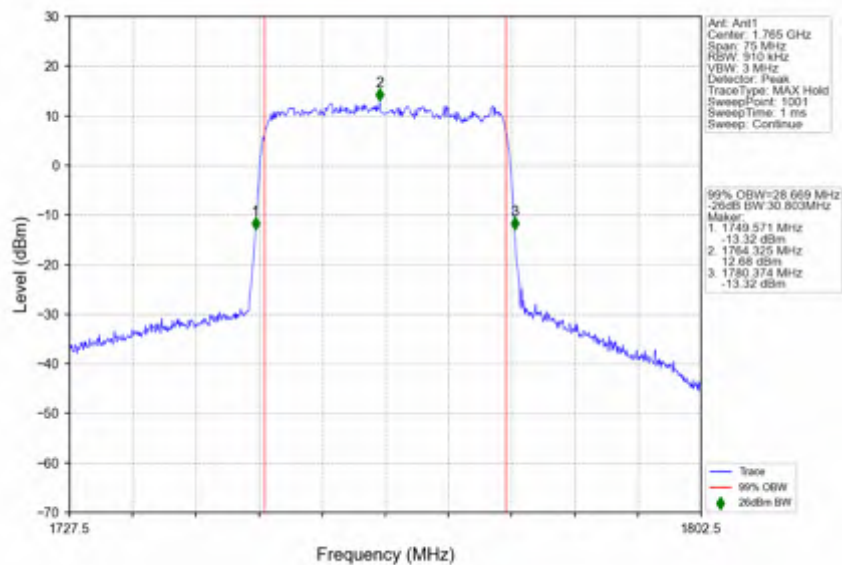


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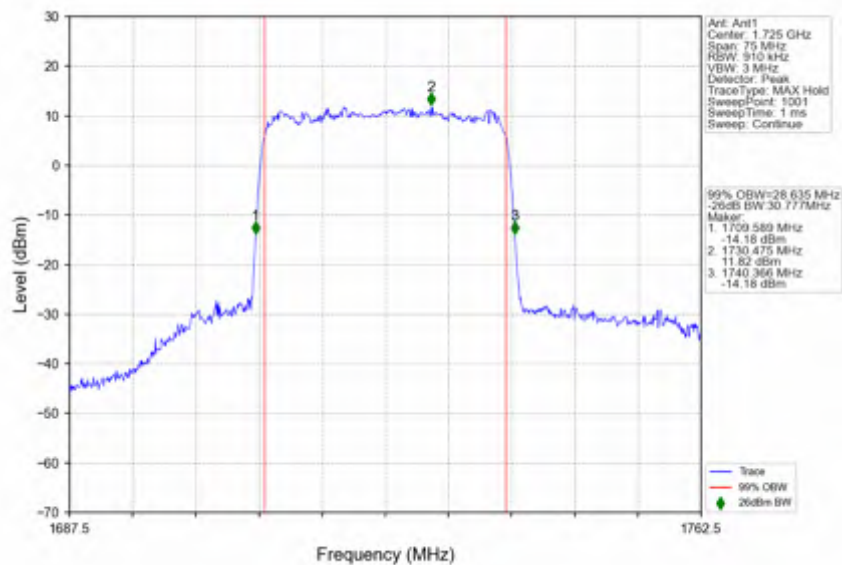
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n66_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM 16 QAM_1765MHz_Outer_Full



n66_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_1725MHz_Outer_Full



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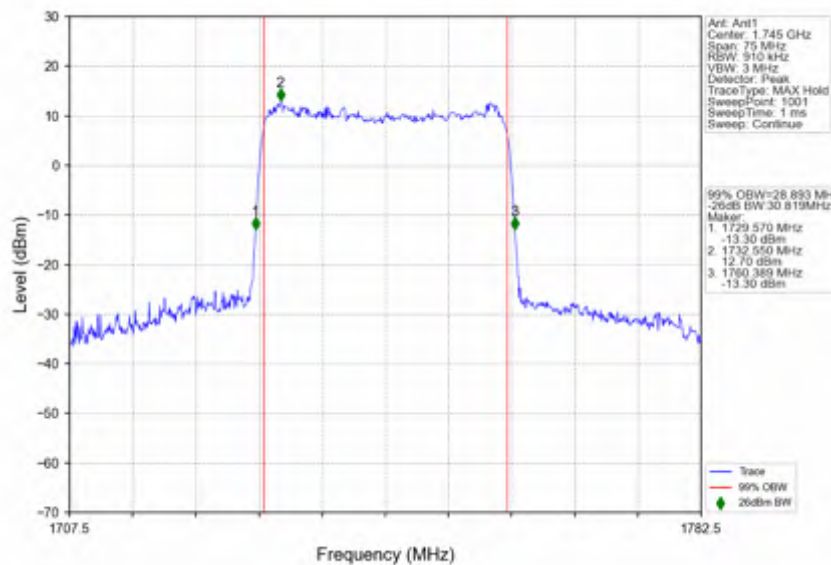
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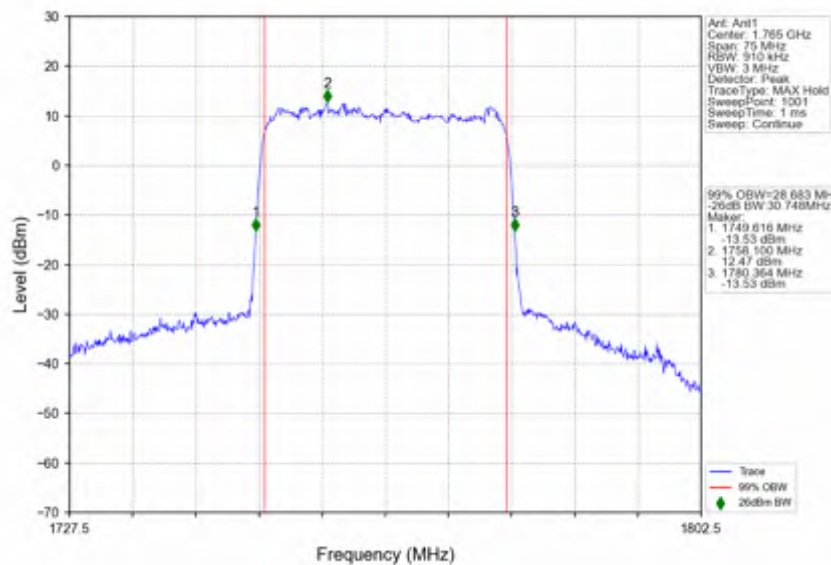
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n66_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_1745MHz_Outer_Full



n66 15kHz SISO NTNv 30MHz DFT-s-OFDM 64 QAM 1765MHz Outer Full

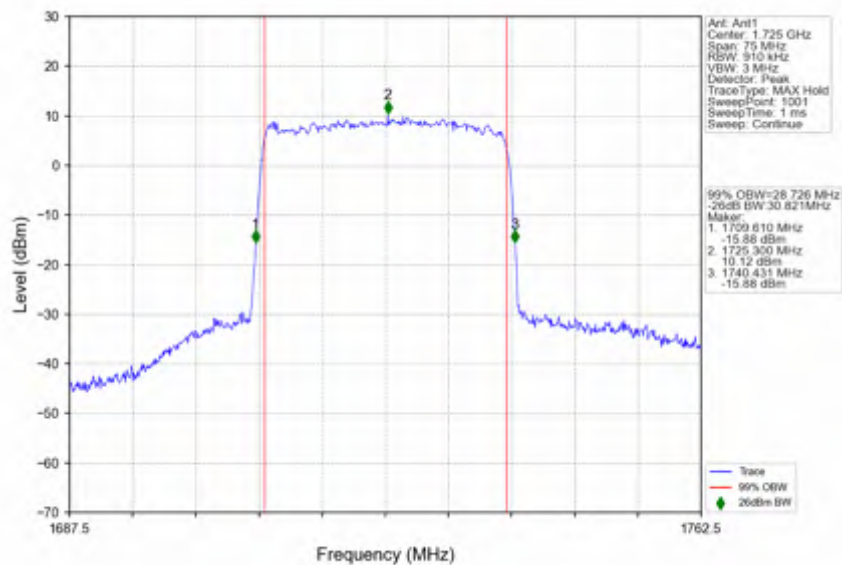


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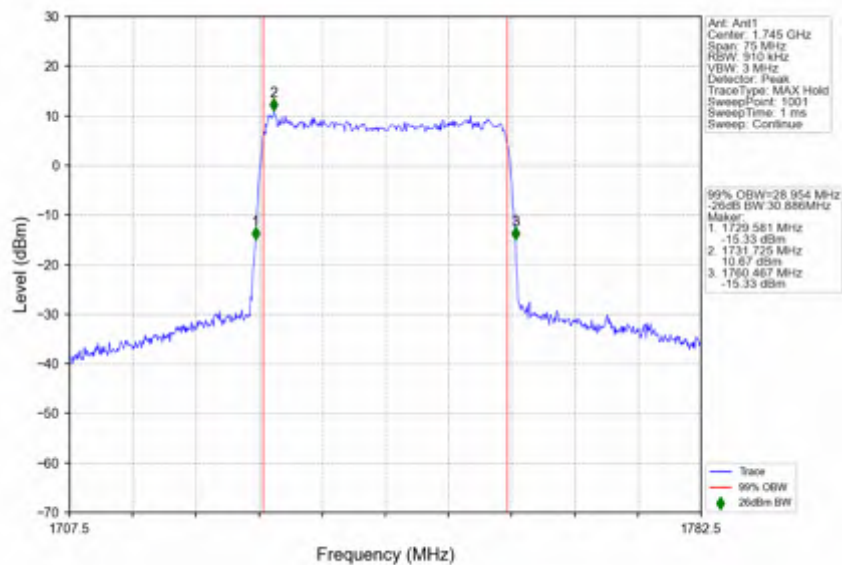
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n66_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_1725MHz_Outer_Full



n66_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_1745MHz_Outer_Full



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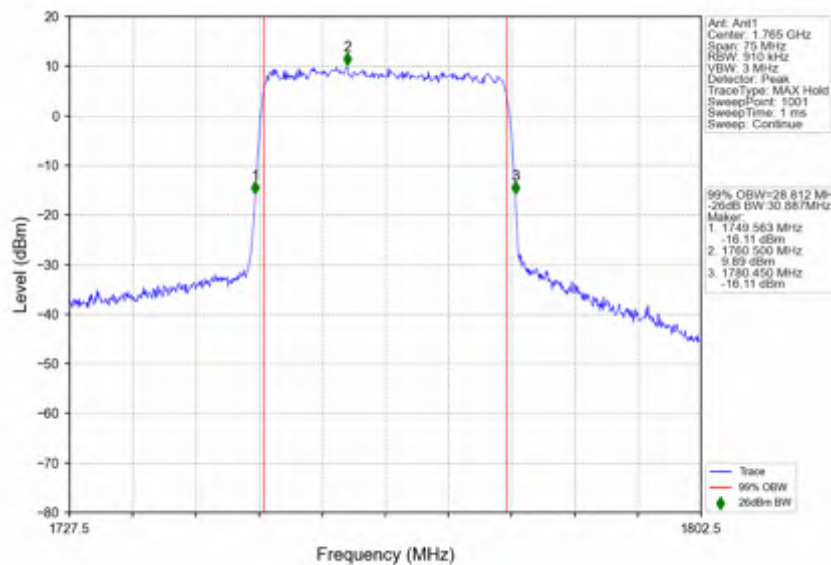
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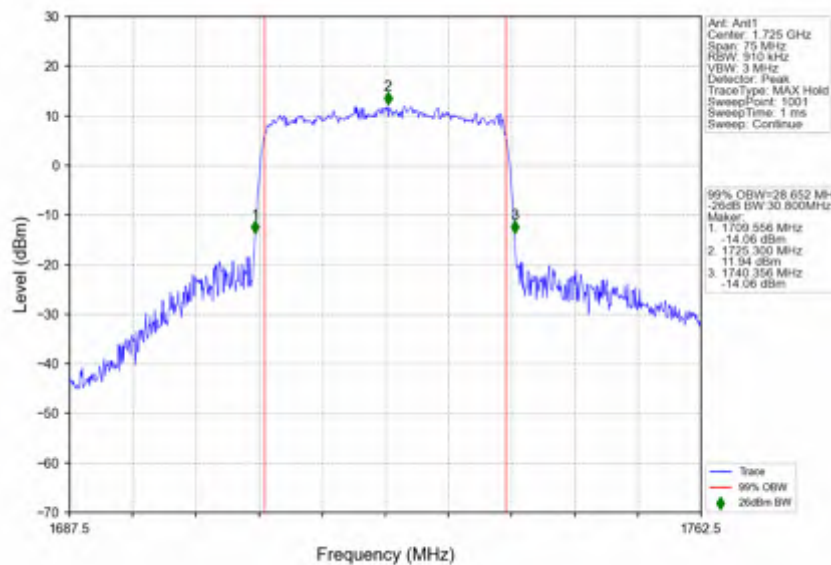
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n66_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM 256 QAM_1765MHz_Outer_Full



n66_15kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_1725MHz_Outer_Full



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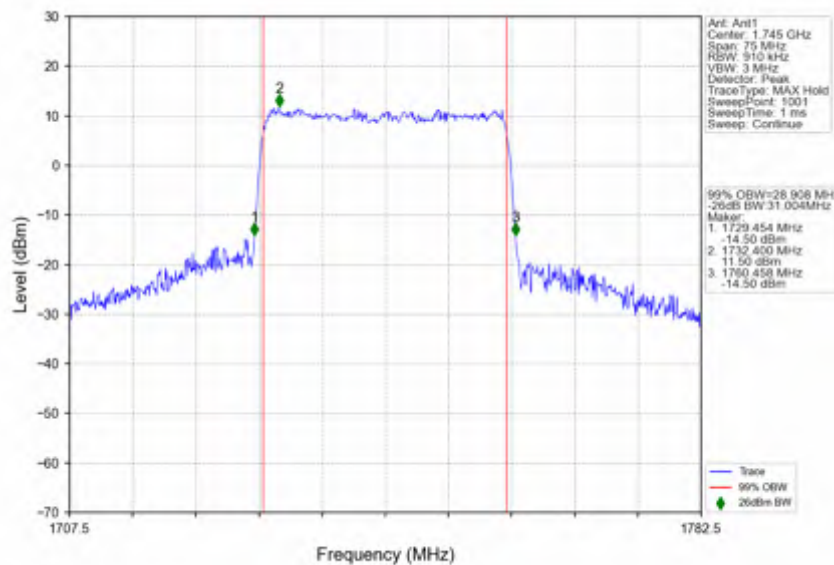
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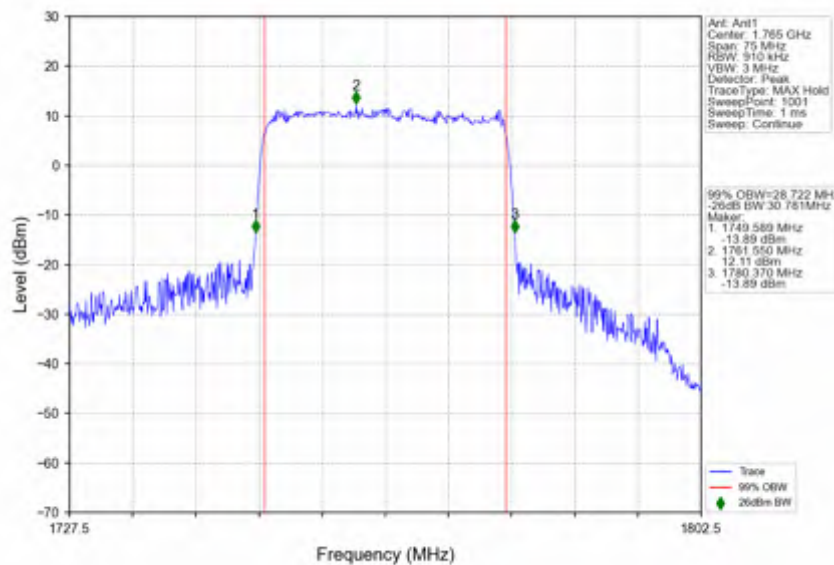
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n66_15kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_1745MHz_Outer_Full



n66_15kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_1765MHz_Outer_Full



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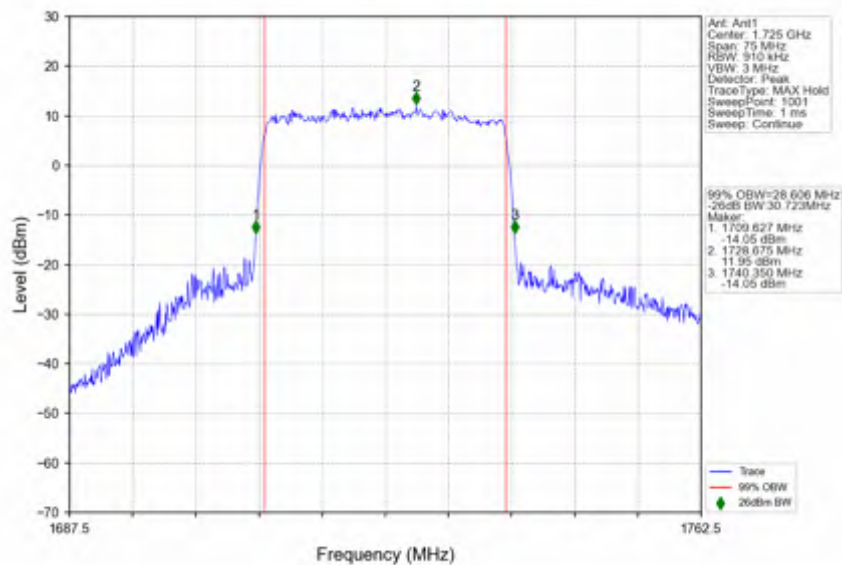
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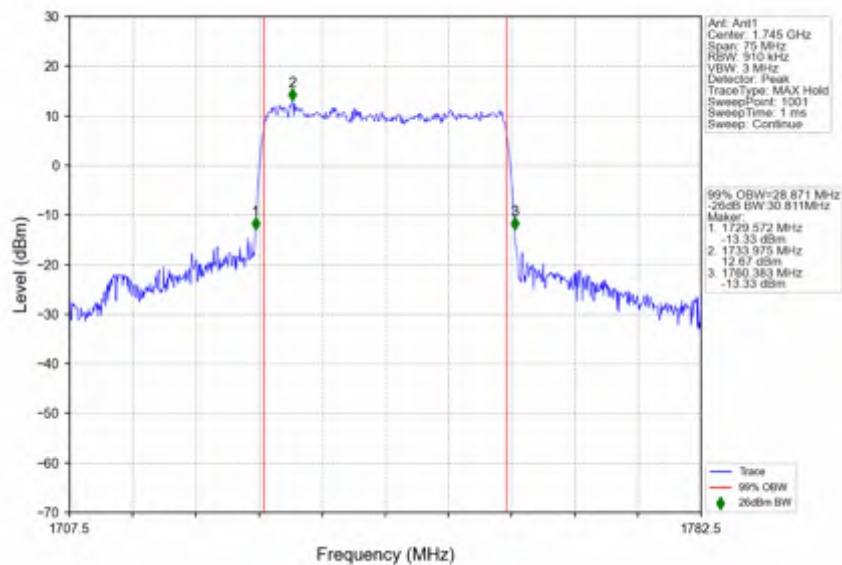
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n66_15kHz_SISO_NTNV_30MHz_CP-OFDM_16_QAM_1725MHz_Outer_Full



n66_15kHz_SISO_NTNV_30MHz_CP-OFDM_16_QAM_1745MHz_Outer_Full



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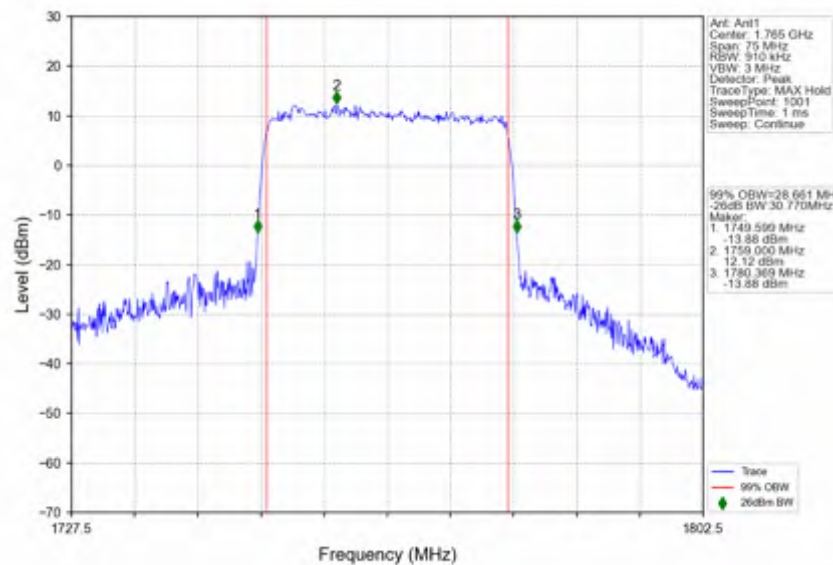
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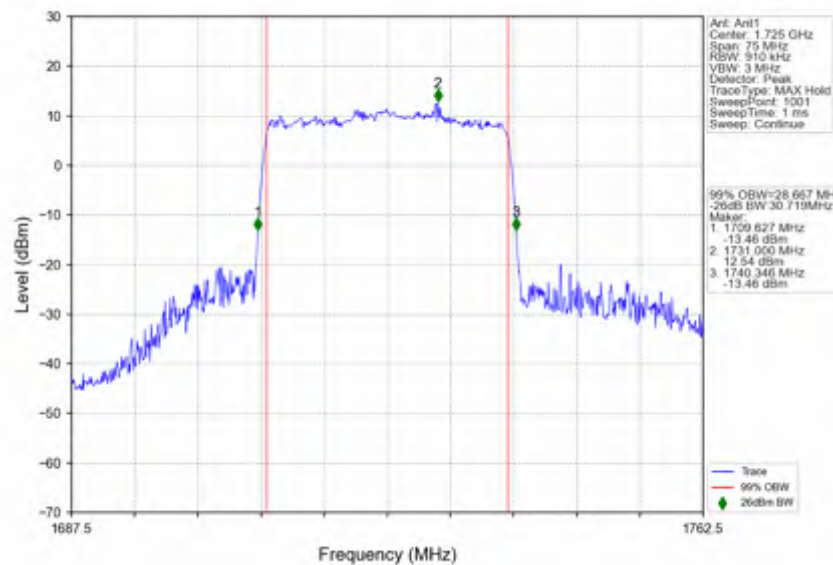
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n66_15kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_1765MHz_Outer_Full



n66_15kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_1725MHz_Outer_Full



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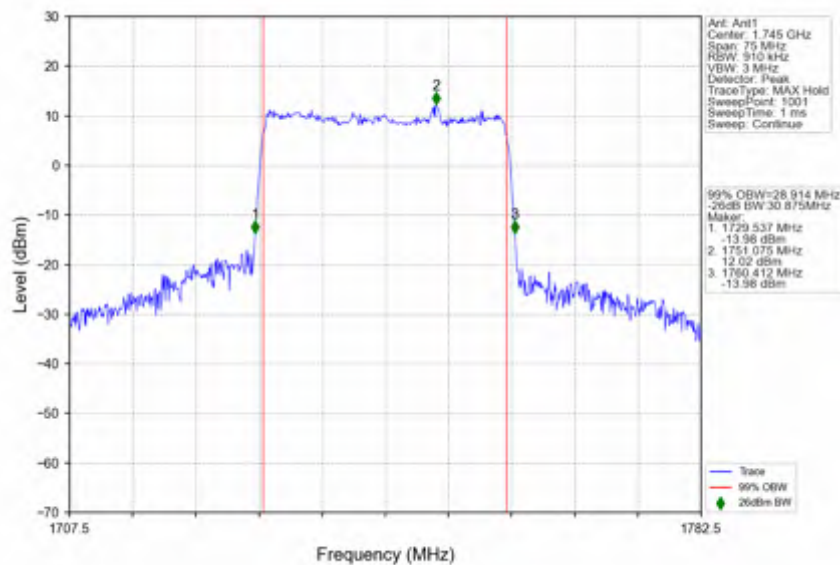
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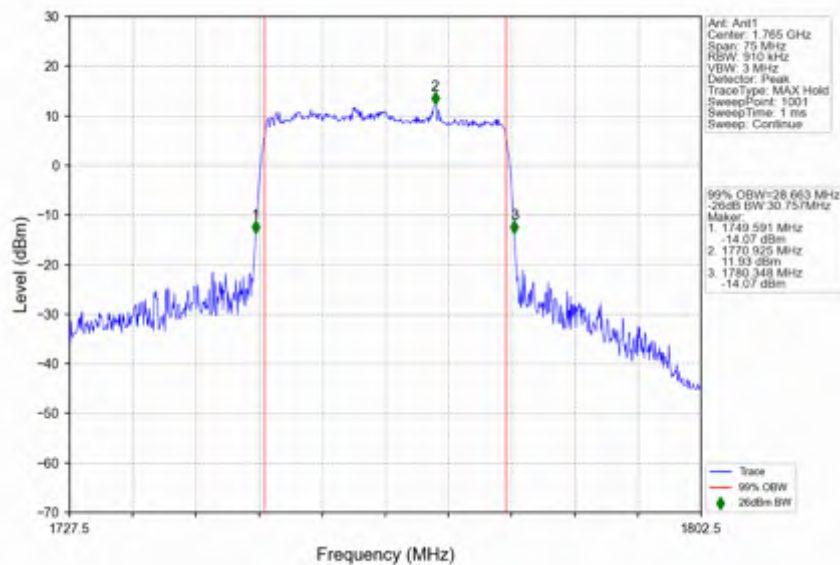
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n66_15kHz_SISO_NTNV_30MHz_CP-OFDM_64_QAM_1745MHz_Outer_Full



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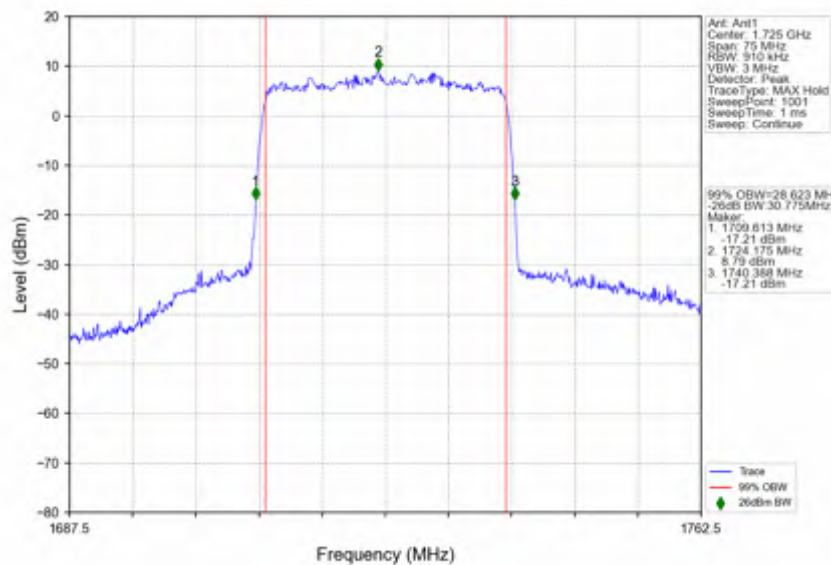


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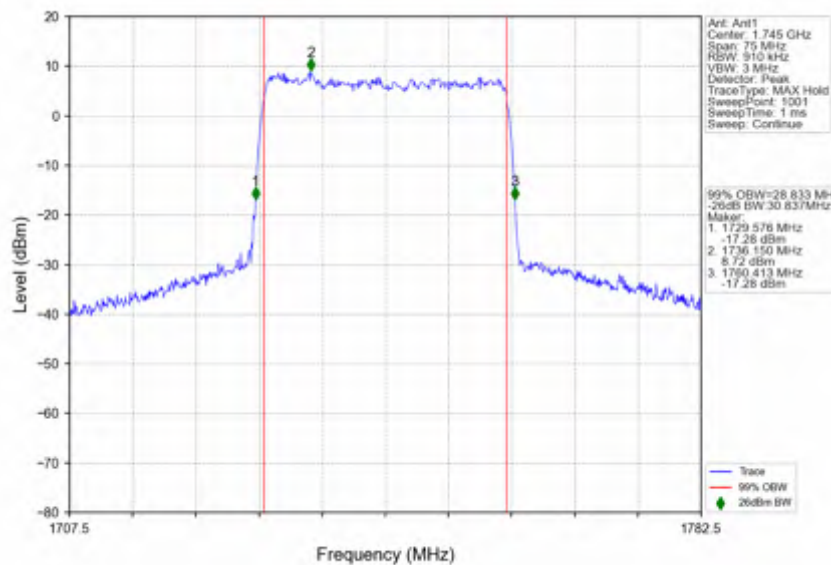
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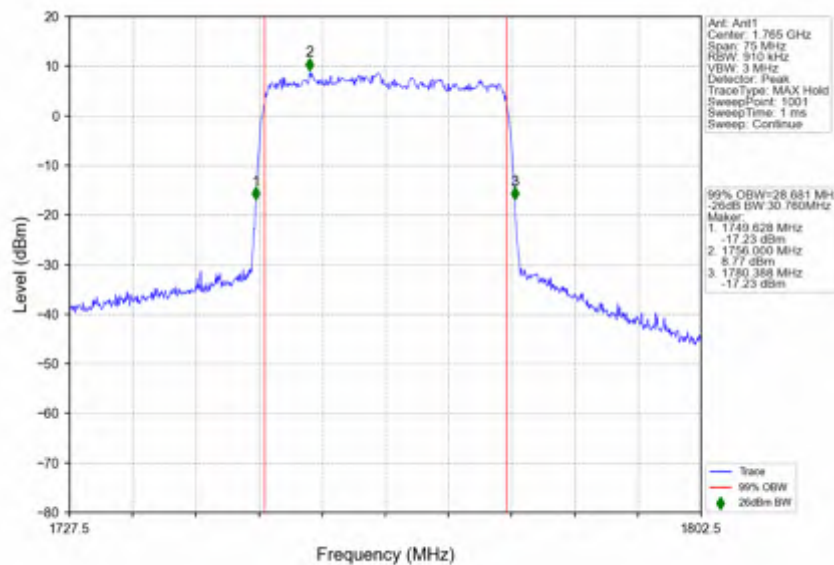


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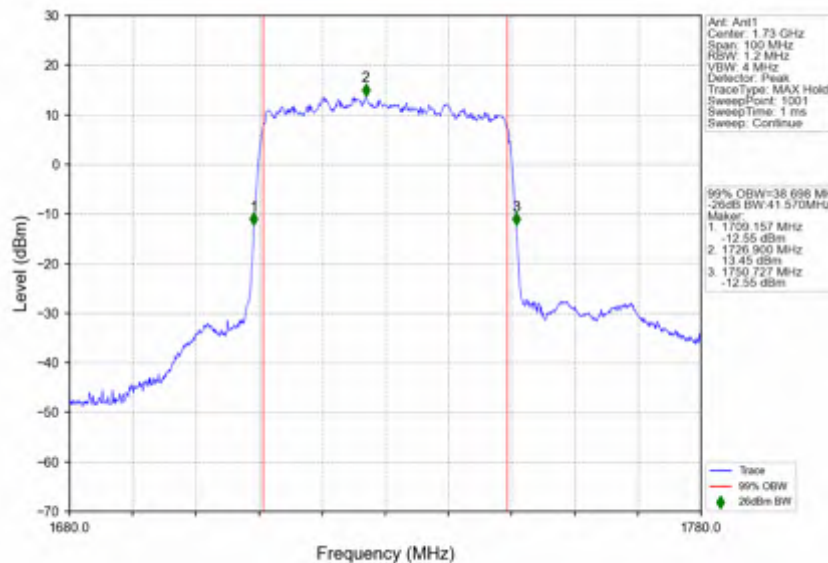
7.7 15k_SISO_40MHz_NTNV

7.7.1 Test Result

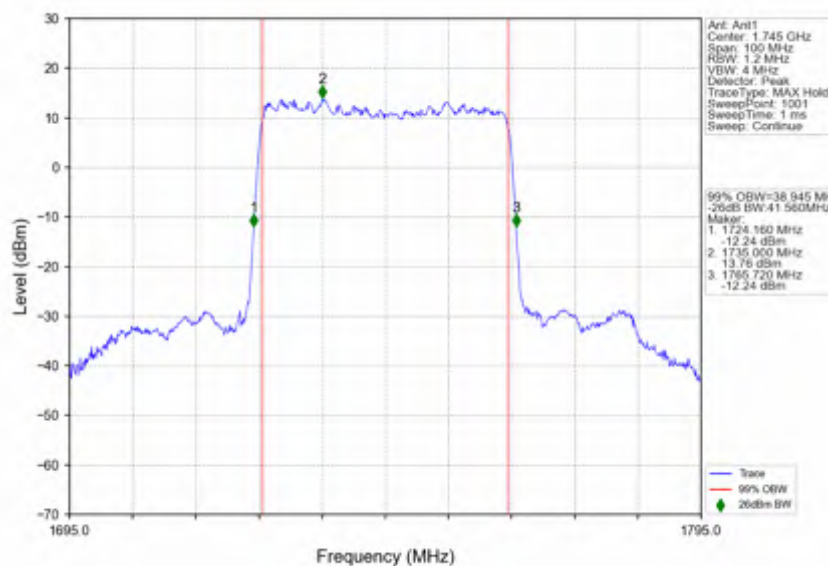
5G NR n66 SCS=15kHz SISO 40MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1730	Outer_Full	38.70	41.57	/	Pass
	1745	Outer_Full	38.95	41.56	/	Pass
	1760	Outer_Full	38.78	41.53	/	Pass
DFT-s-OFDM QPSK	1730	Outer_Full	38.69	41.38	/	Pass
	1745	Outer_Full	38.89	41.52	/	Pass
	1760	Outer_Full	38.75	41.39	/	Pass
DFT-s-OFDM 16 QAM	1730	Outer_Full	38.79	41.48	/	Pass
	1745	Outer_Full	39.05	41.66	/	Pass
	1760	Outer_Full	38.90	41.53	/	Pass
DFT-s-OFDM 64 QAM	1730	Outer_Full	38.78	41.42	/	Pass
	1745	Outer_Full	38.99	41.63	/	Pass
	1760	Outer_Full	38.84	41.50	/	Pass
DFT-s-OFDM 256 QAM	1730	Outer_Full	38.72	41.50	/	Pass
	1745	Outer_Full	38.97	41.64	/	Pass
	1760	Outer_Full	38.78	41.55	/	Pass
CP-OFDM QPSK	1730	Outer_Full	38.78	41.45	/	Pass
	1745	Outer_Full	38.98	41.61	/	Pass
	1760	Outer_Full	38.82	41.54	/	Pass
CP-OFDM 16 QAM	1730	Outer_Full	38.84	41.49	/	Pass
	1745	Outer_Full	39.05	41.62	/	Pass
	1760	Outer_Full	38.92	41.63	/	Pass
CP-OFDM 64 QAM	1730	Outer_Full	38.88	41.42	/	Pass
	1745	Outer_Full	39.08	41.56	/	Pass
	1760	Outer_Full	38.95	41.47	/	Pass
CP-OFDM 256 QAM	1730	Outer_Full	38.80	41.39	/	Pass
	1745	Outer_Full	39.07	41.57	/	Pass
	1760	Outer_Full	38.81	41.51	/	Pass

7.7.2 Test Graph

n66_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_PI/2_BPSK_1730MHz_Outer_Full



n66_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_PI/2_BPSK_1745MHz_Outer_Full

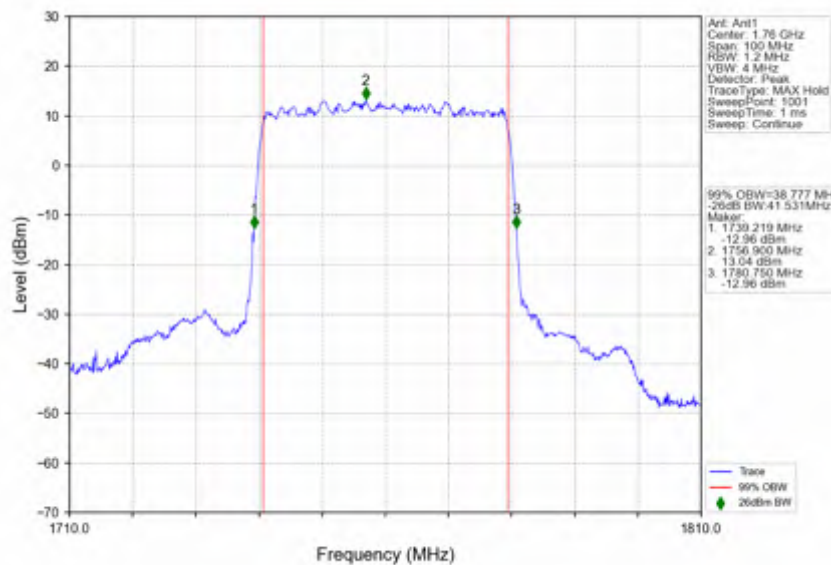


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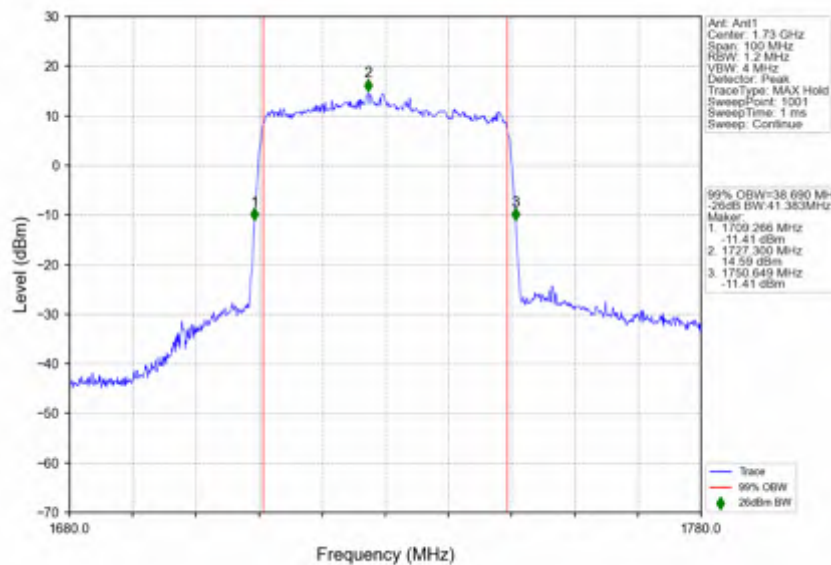
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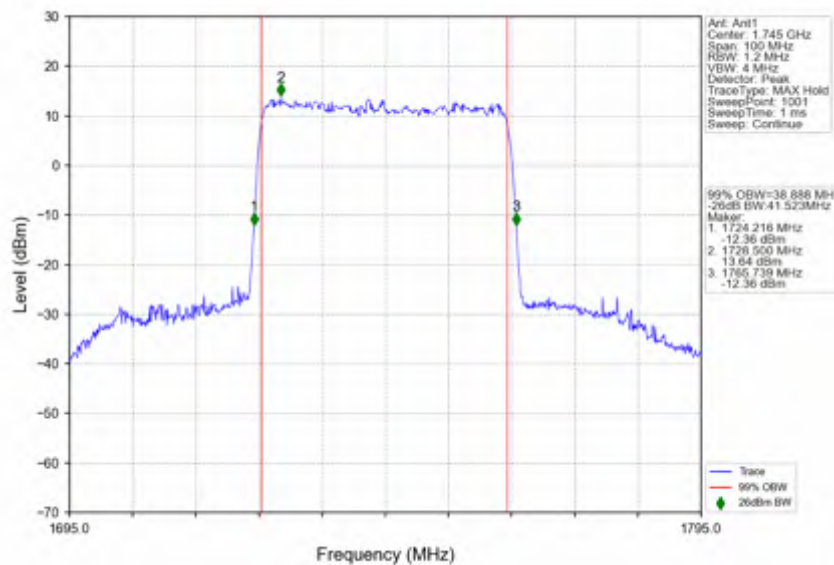
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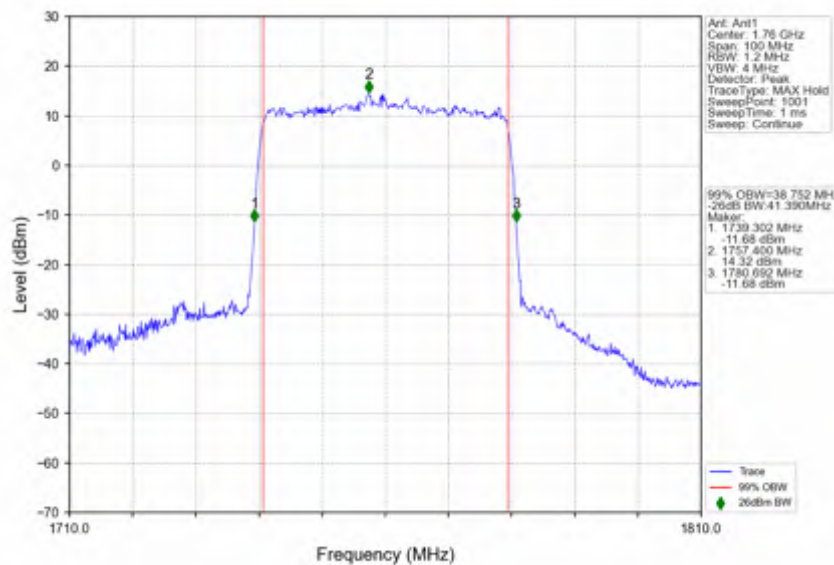
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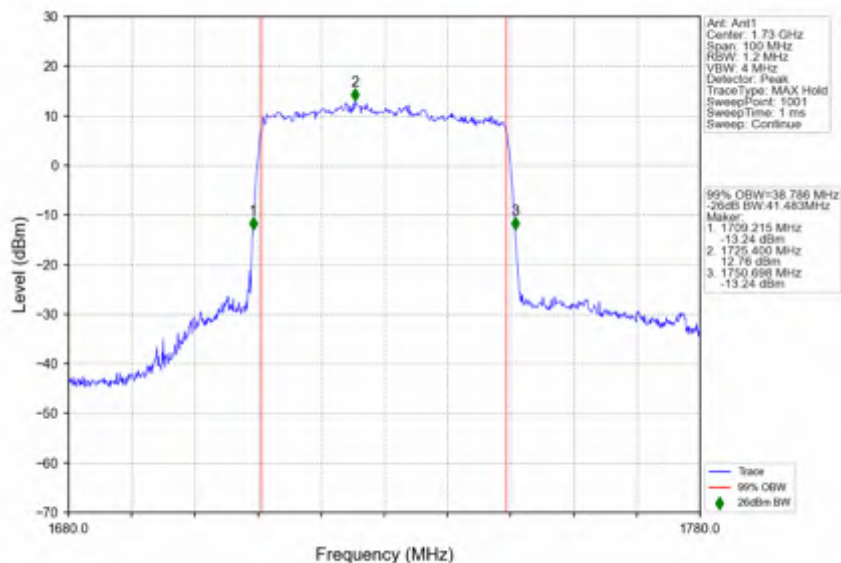
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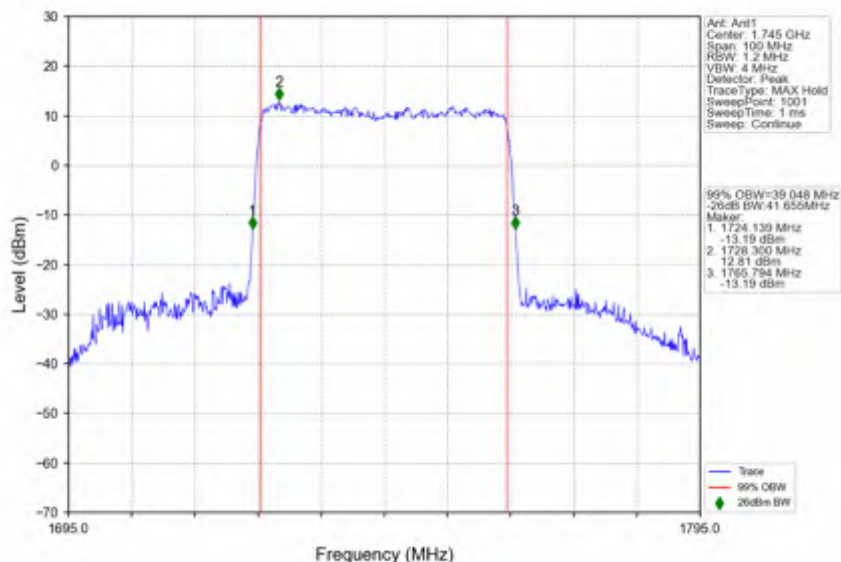
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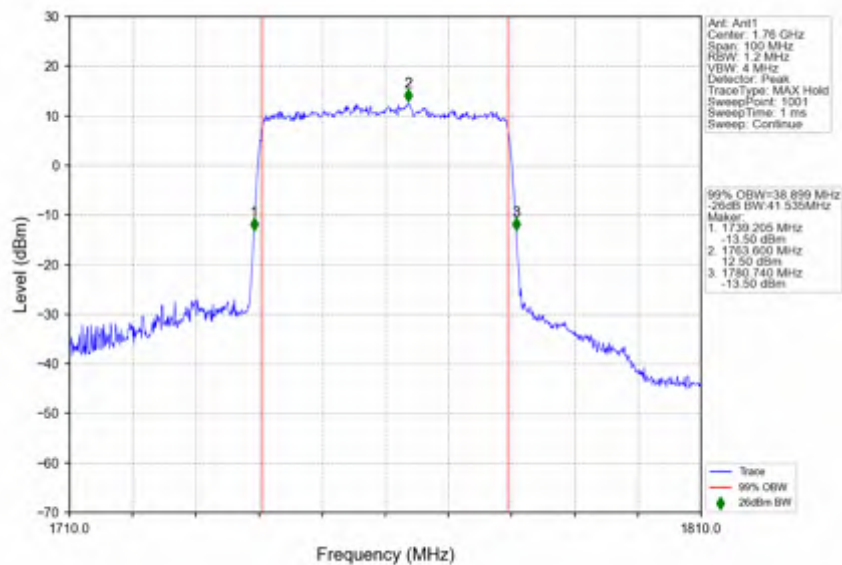
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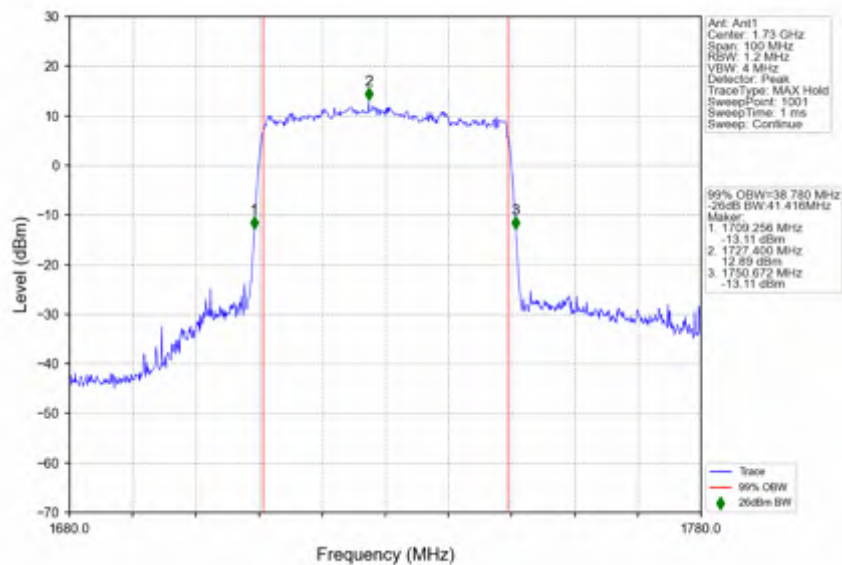
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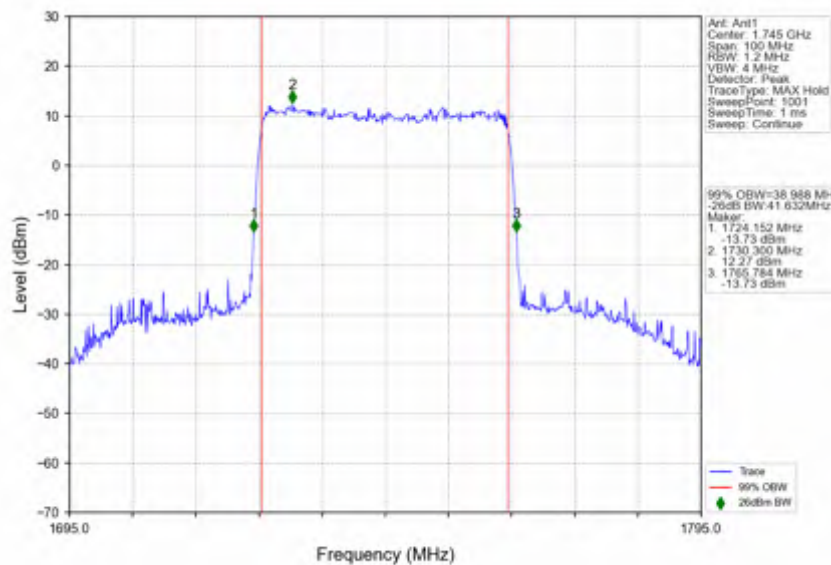
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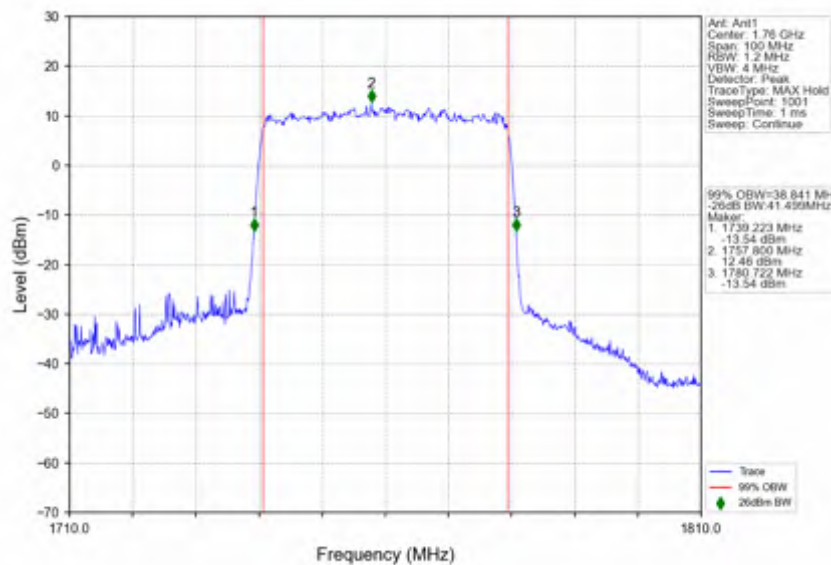
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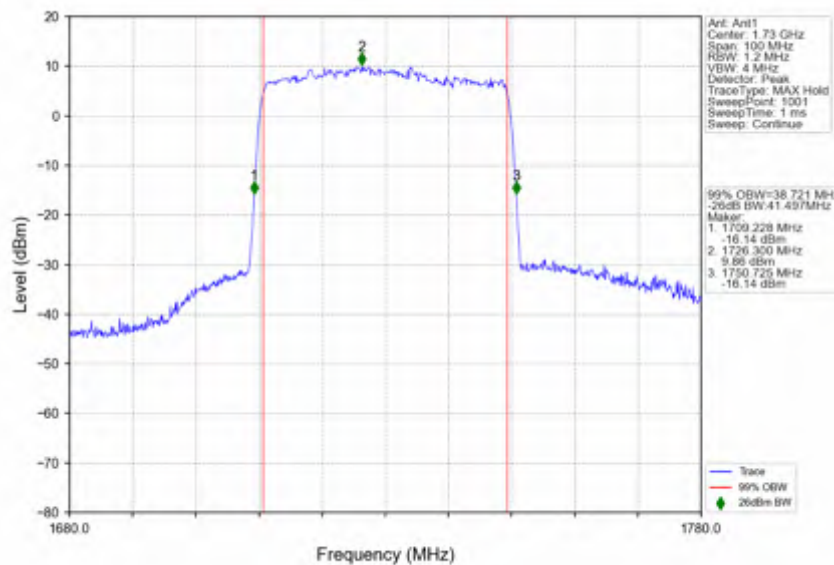
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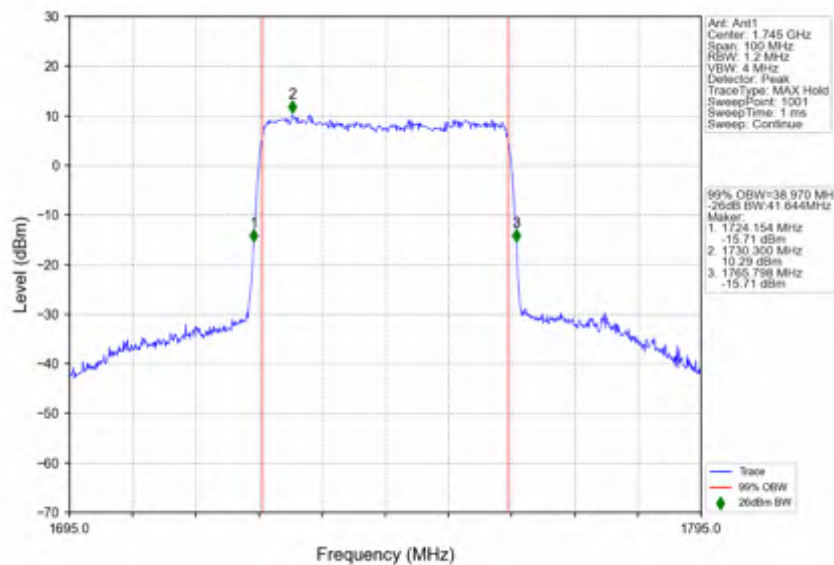
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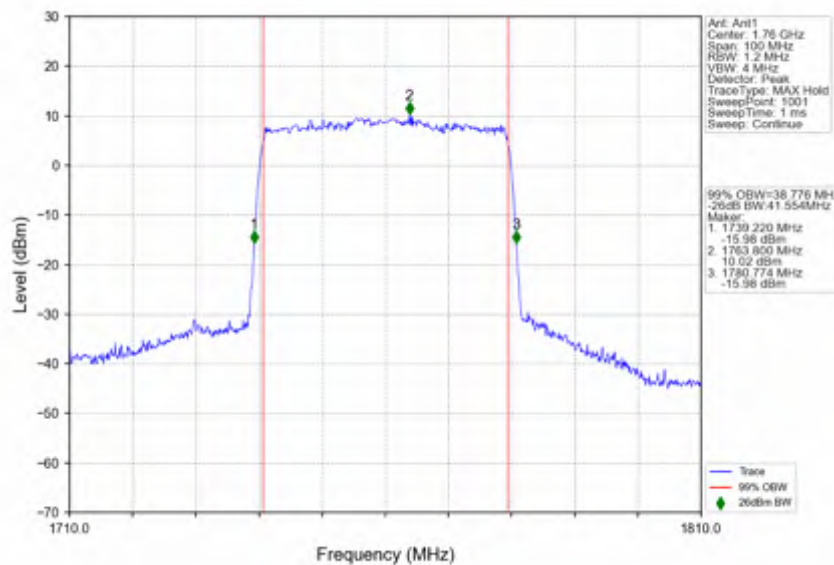
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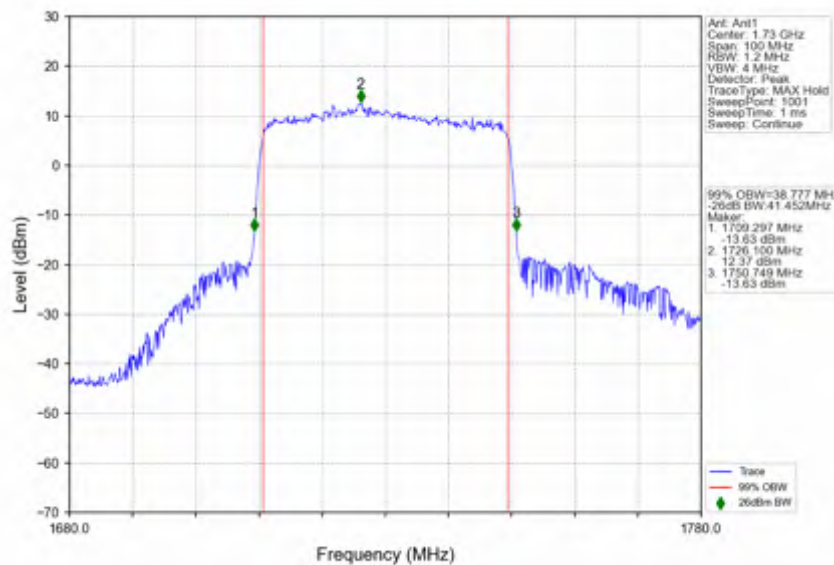
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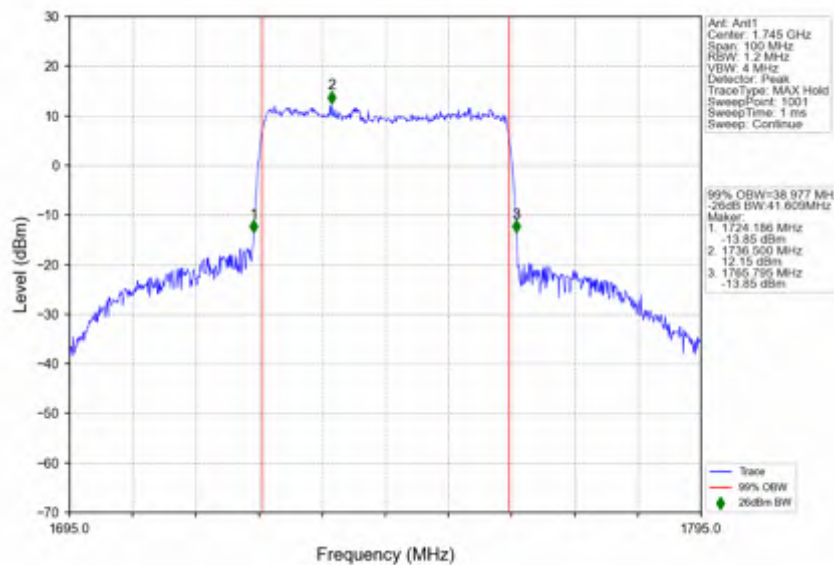
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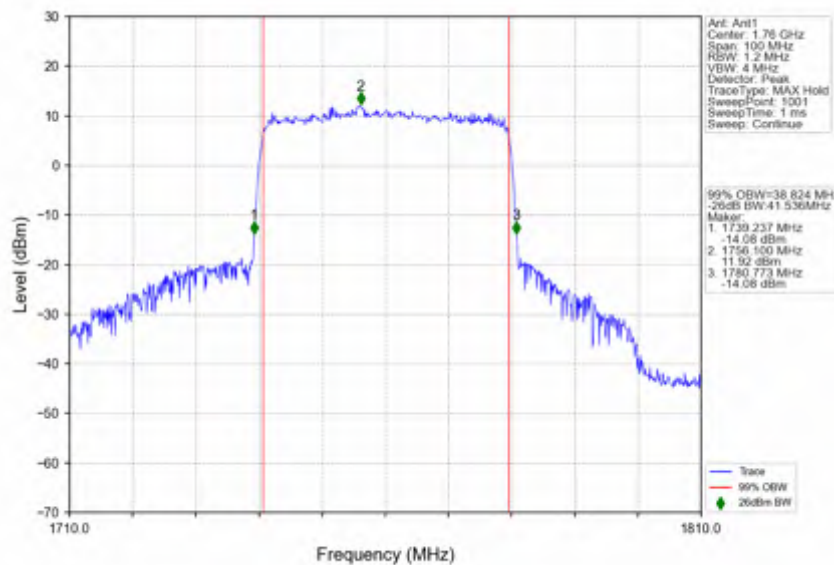
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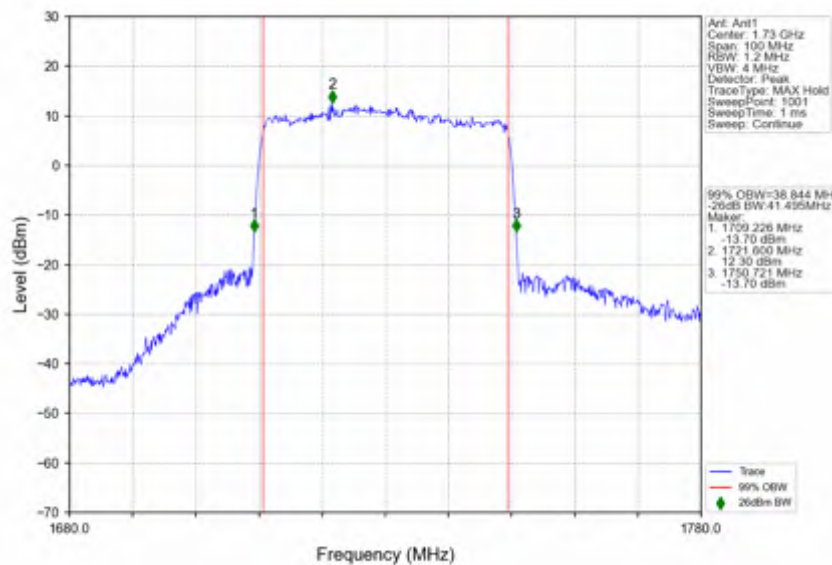
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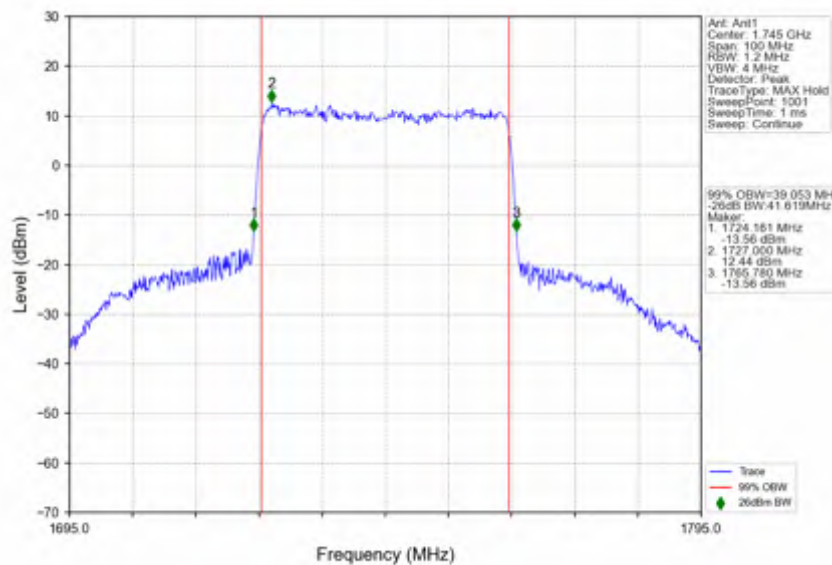
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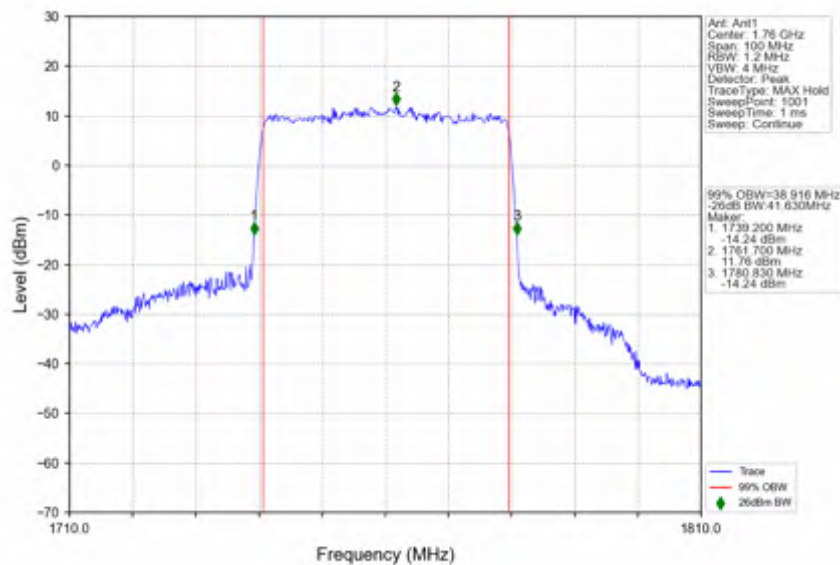
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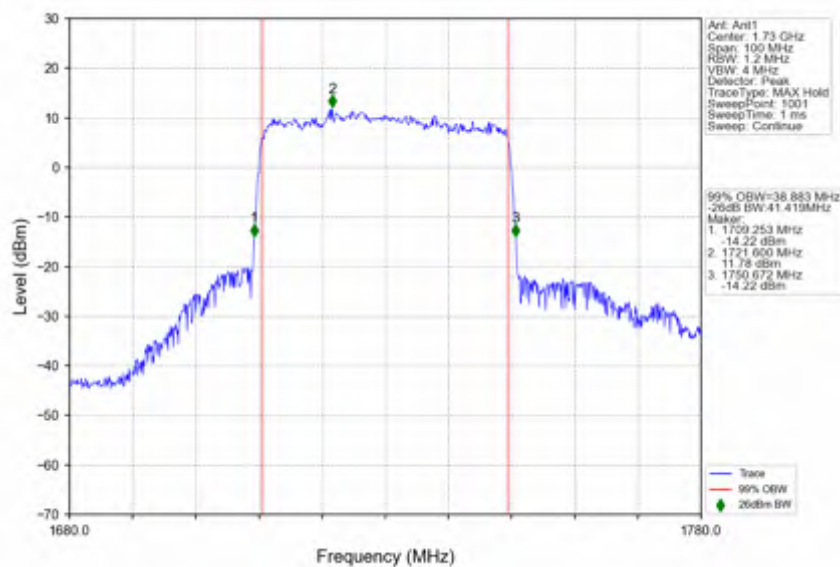
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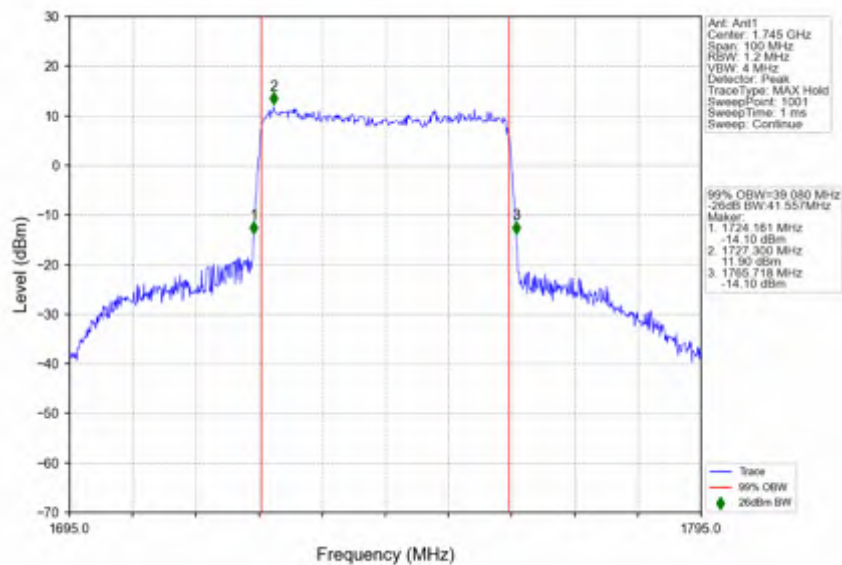


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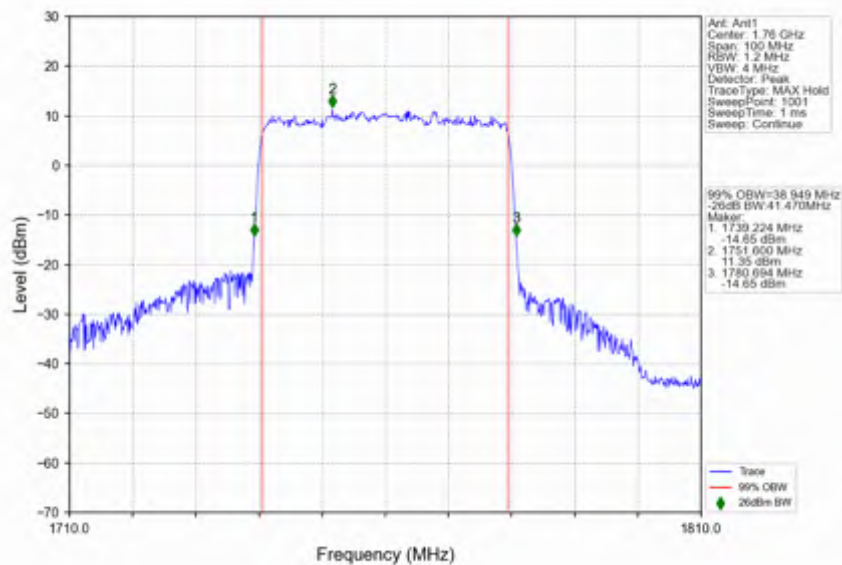
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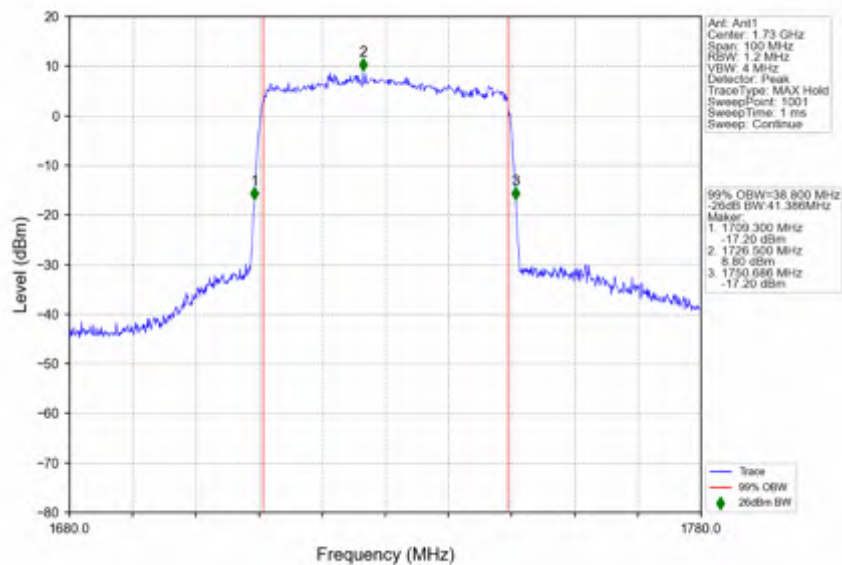
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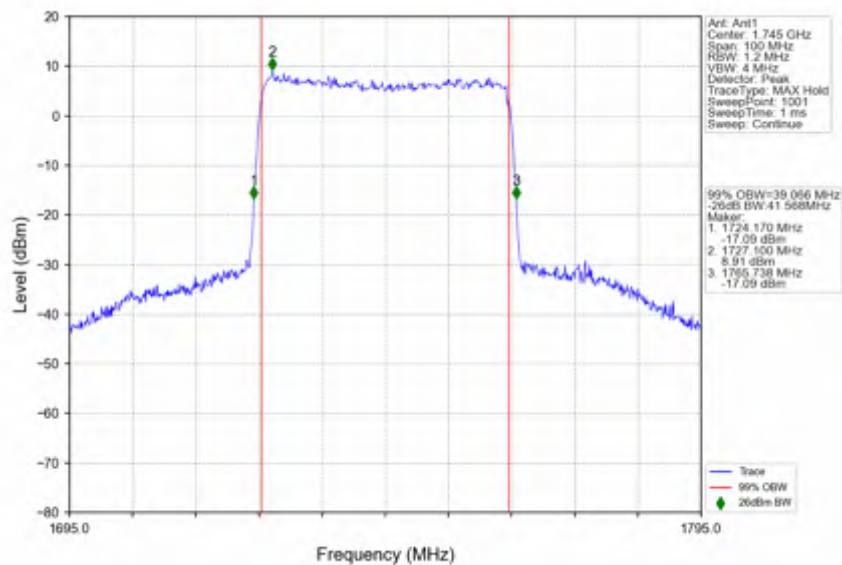
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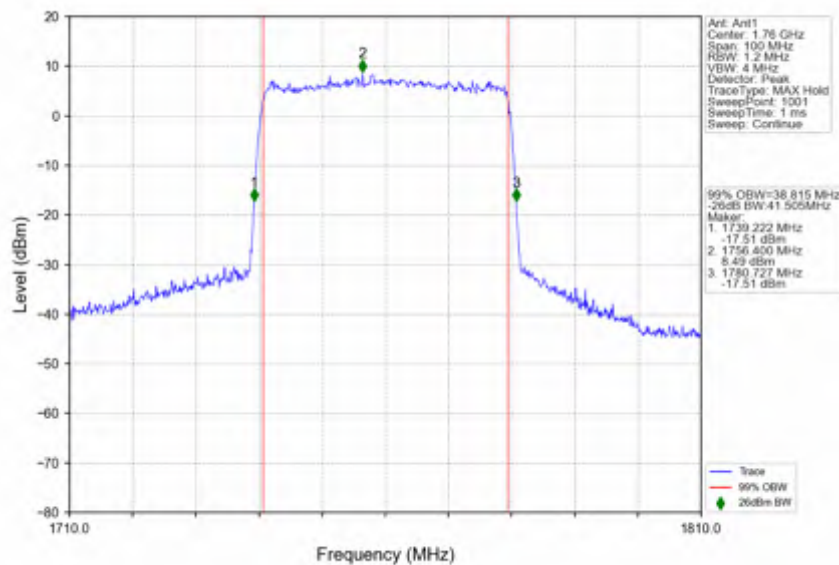
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7.8 30k_SISO_10MHz_NTNV

7.8.1 Test Result

5G NR n66 SCS=30kHz SISO 10MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1715	Outer_Full	8.73	9.87	/	Pass
	1745	Outer_Full	8.65	9.73	/	Pass
	1775	Outer_Full	8.73	9.83	/	Pass
DFT-s-OFDM QPSK	1715	Outer_Full	8.74	9.91	/	Pass
	1745	Outer_Full	8.75	9.86	/	Pass
	1775	Outer_Full	8.71	9.68	/	Pass
DFT-s-OFDM 16 QAM	1715	Outer_Full	8.70	9.78	/	Pass
	1745	Outer_Full	8.73	9.86	/	Pass
	1775	Outer_Full	8.71	9.77	/	Pass
DFT-s-OFDM 64 QAM	1715	Outer_Full	8.75	9.83	/	Pass
	1745	Outer_Full	8.73	9.79	/	Pass
	1775	Outer_Full	8.74	9.84	/	Pass
DFT-s-OFDM 256 QAM	1715	Outer_Full	8.76	9.80	/	Pass
	1745	Outer_Full	8.71	9.79	/	Pass
	1775	Outer_Full	8.69	9.78	/	Pass
CP-OFDM QPSK	1715	Outer_Full	8.70	9.77	/	Pass
	1745	Outer_Full	8.70	9.79	/	Pass
	1775	Outer_Full	8.73	9.85	/	Pass
CP-OFDM 16 QAM	1715	Outer_Full	8.71	9.82	/	Pass
	1745	Outer_Full	8.71	9.83	/	Pass
	1775	Outer_Full	8.71	9.79	/	Pass
CP-OFDM 64 QAM	1715	Outer_Full	8.71	9.79	/	Pass
	1745	Outer_Full	8.71	9.60	/	Pass
	1775	Outer_Full	8.69	9.70	/	Pass
CP-OFDM 256 QAM	1715	Outer_Full	8.72	9.82	/	Pass
	1745	Outer_Full	8.75	9.88	/	Pass
	1775	Outer_Full	8.72	9.76	/	Pass



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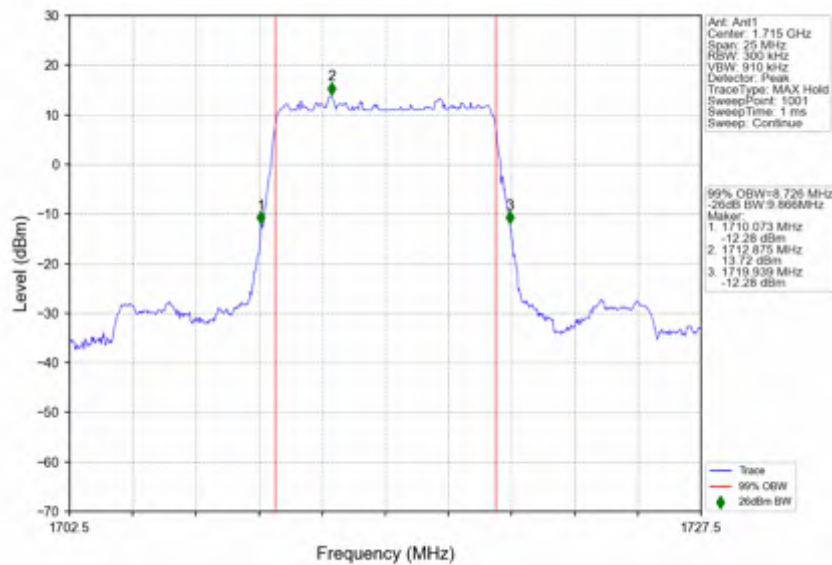
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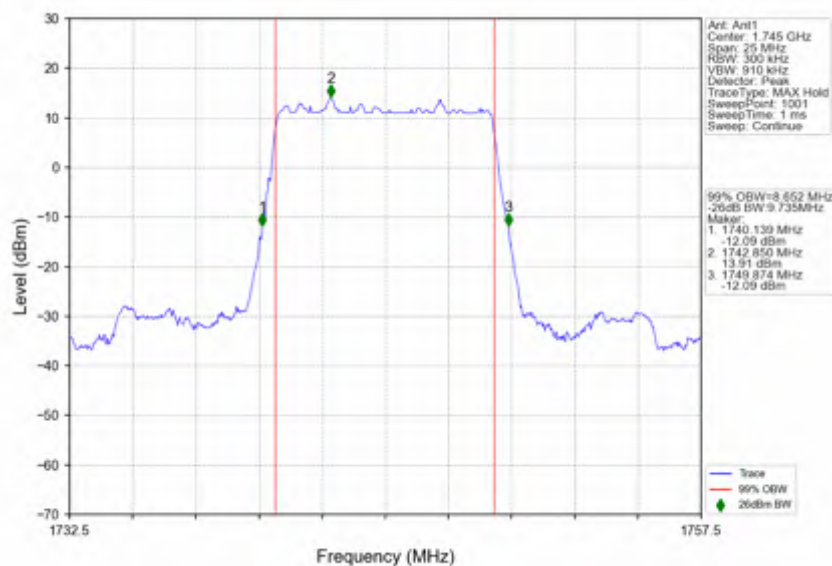
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7.8.2 Test Graph

n66_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_1715MHz_Outer_Full



n66_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_1745MHz_Outer_Full



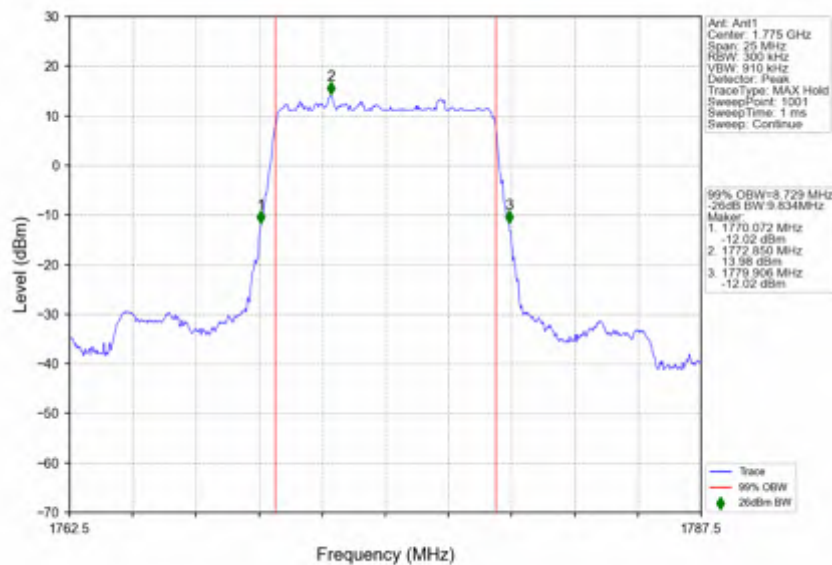
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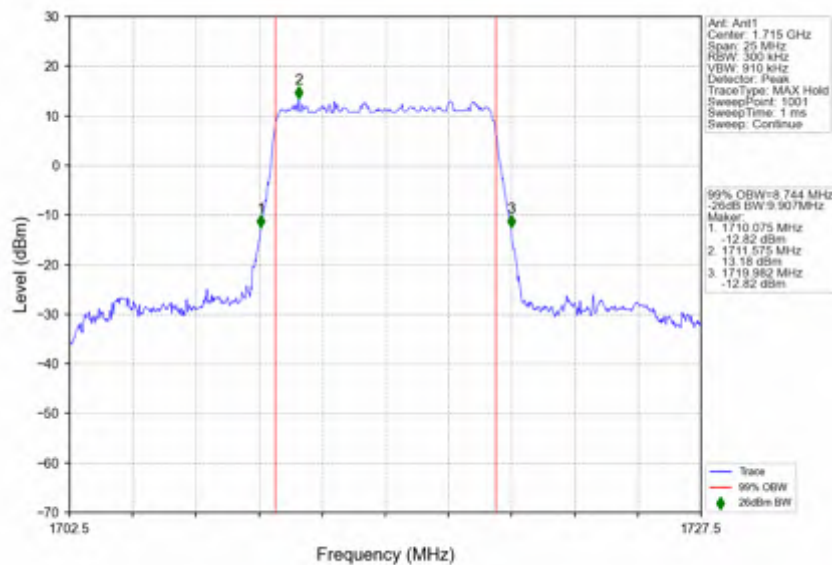
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n66_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_1775MHz_Outer_Full



n66_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_1715MHz_Outer_Full



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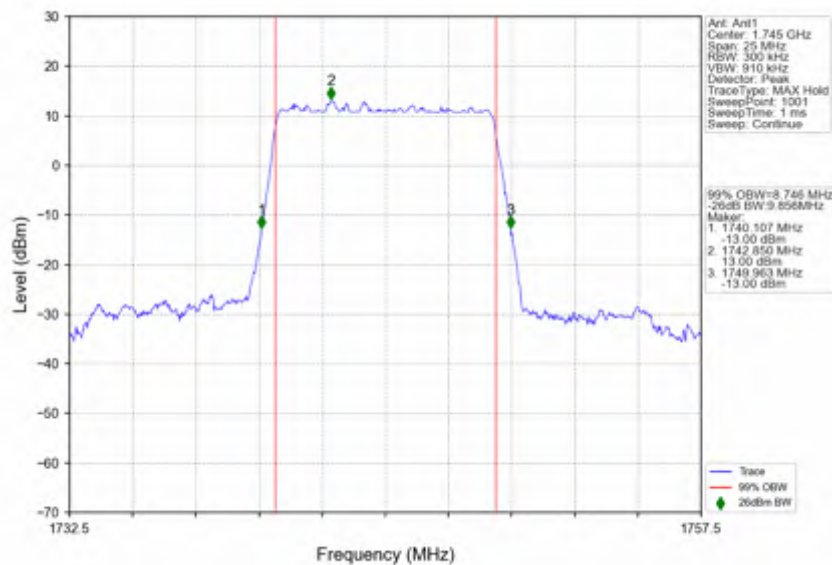
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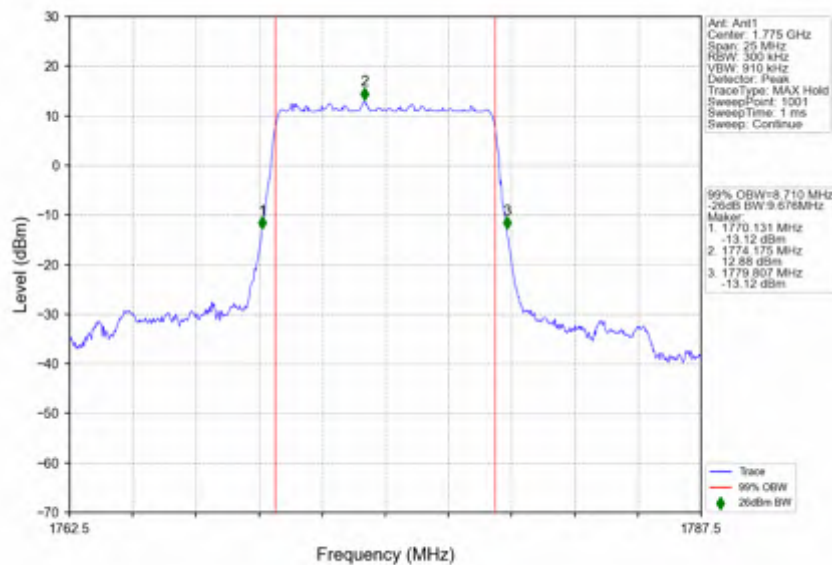
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n66_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_1775MHz_Outer_Full



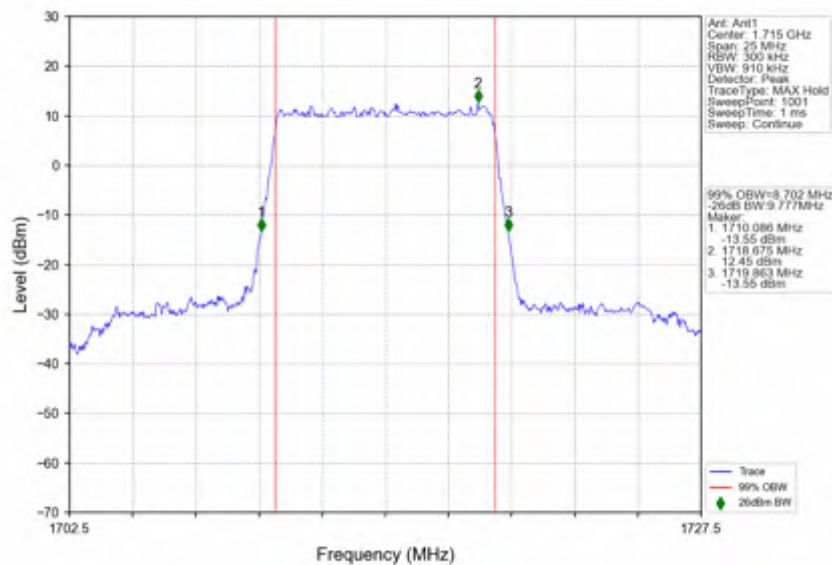
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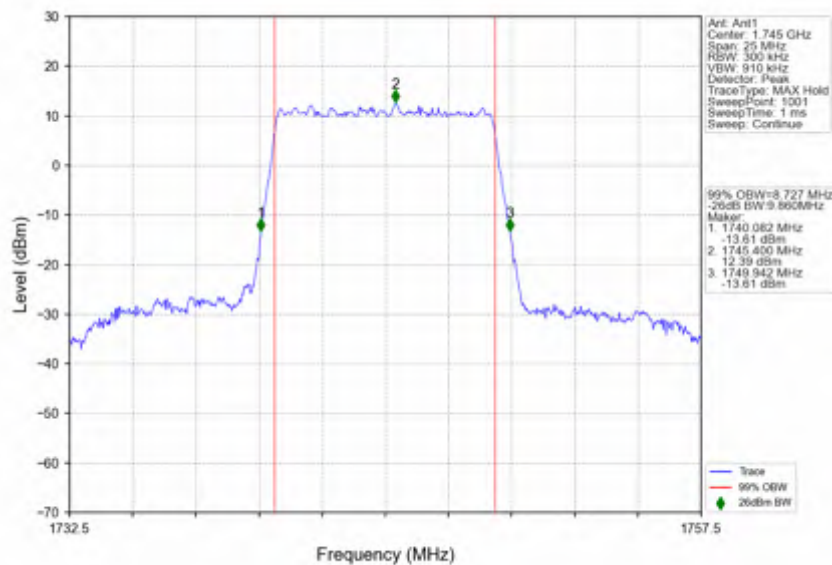
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n66_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16 QAM_1715MHz_Outer_Full



n66_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16 QAM_1745MHz_Outer_Full



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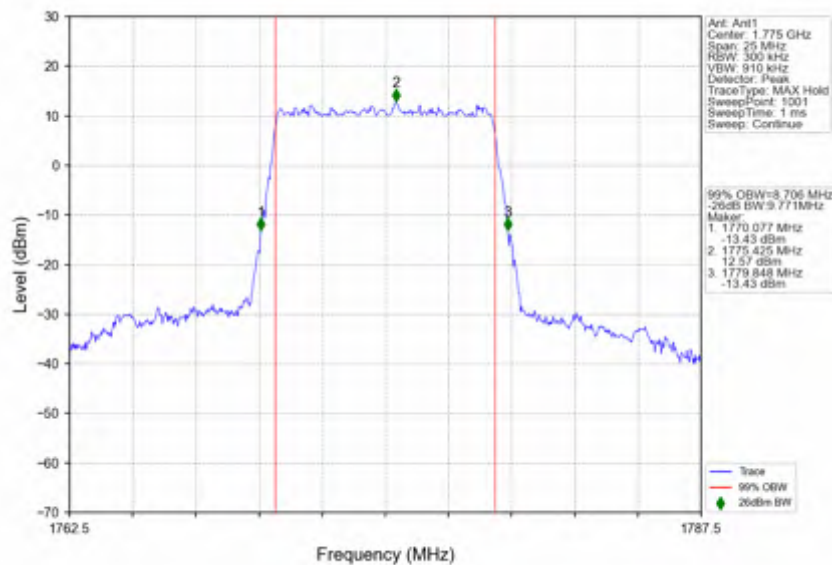
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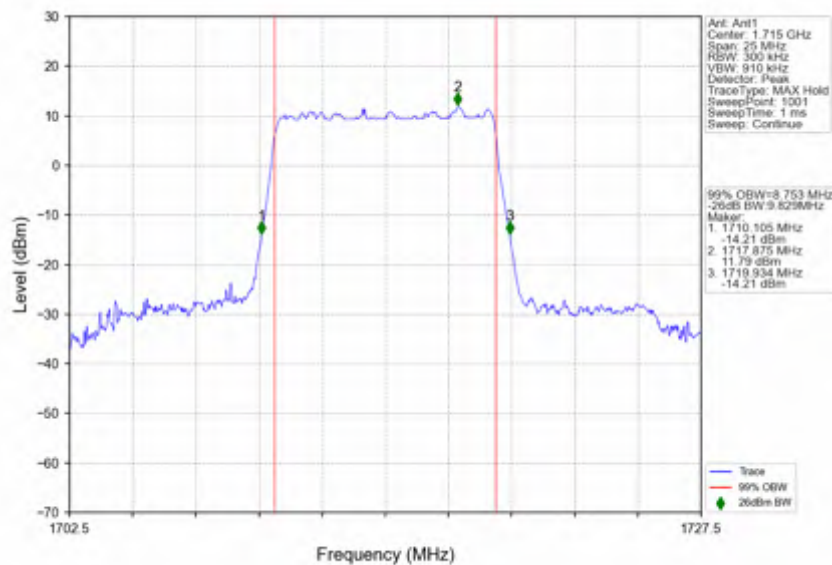
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n66_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_64 QAM_1715MHz_Outer_Full



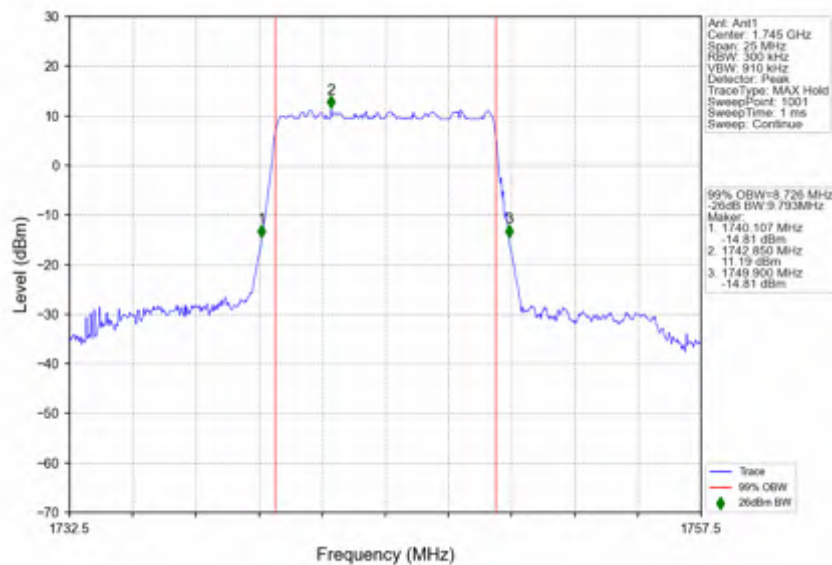
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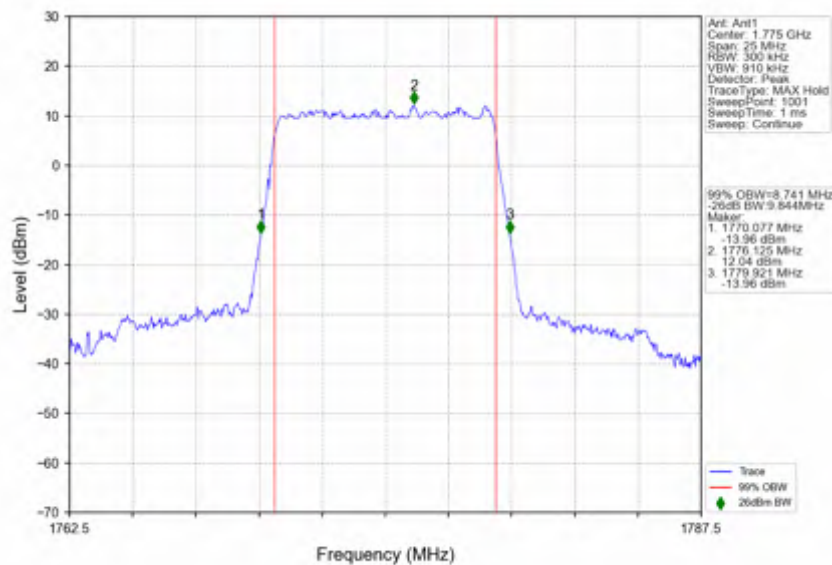
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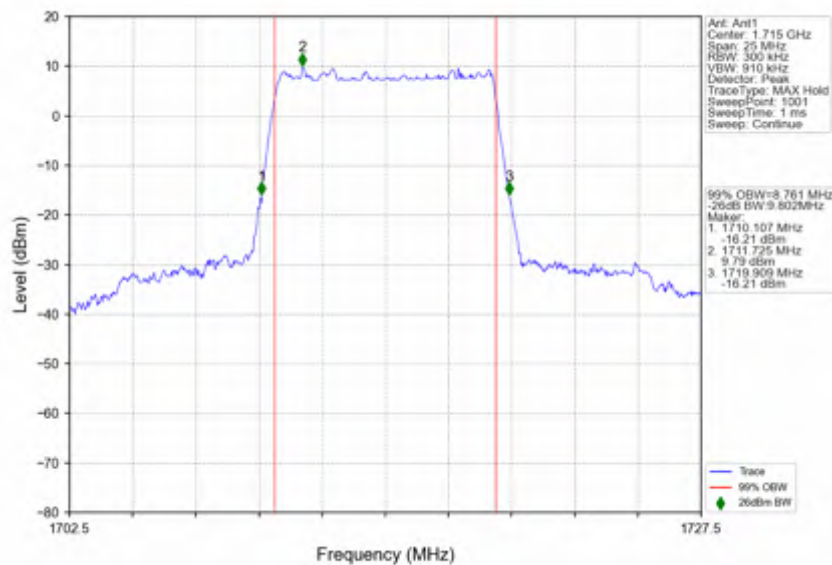
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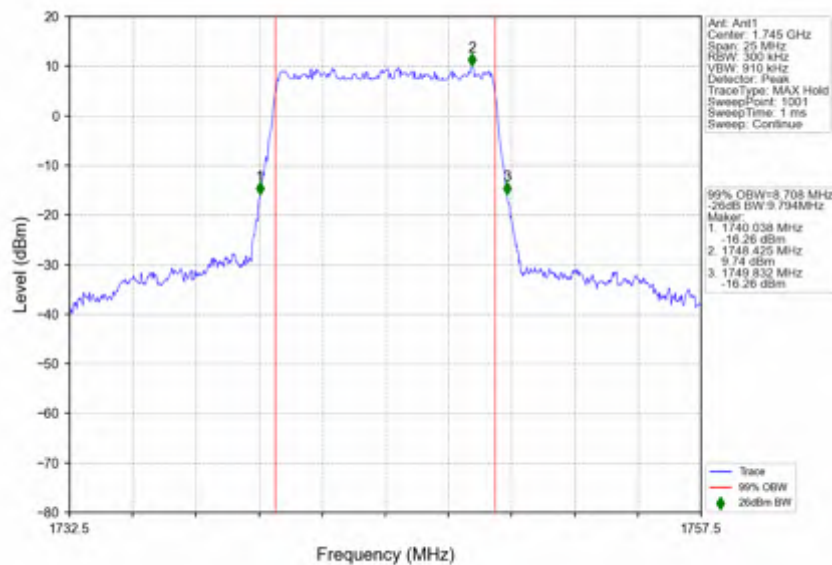
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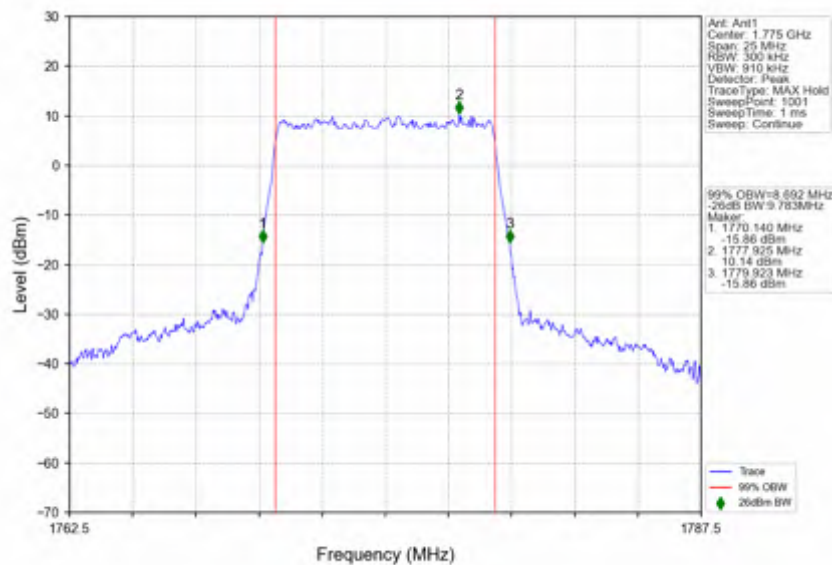
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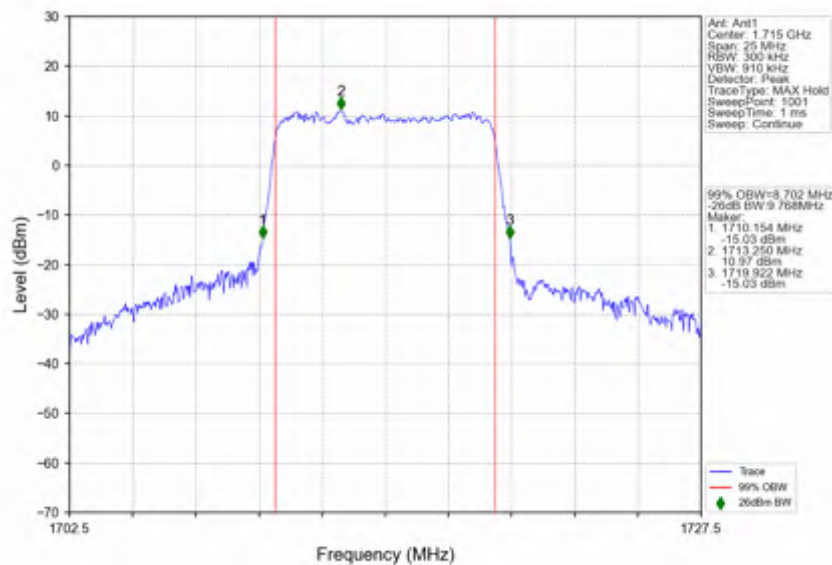
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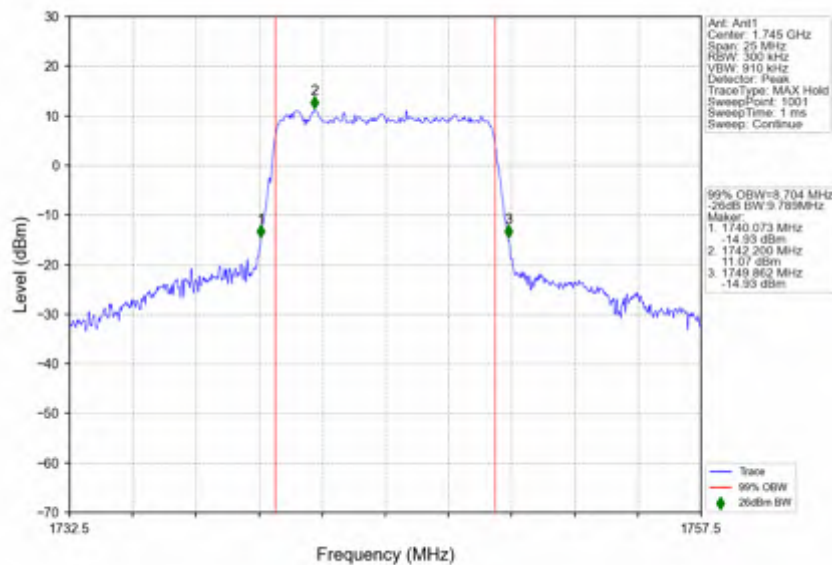
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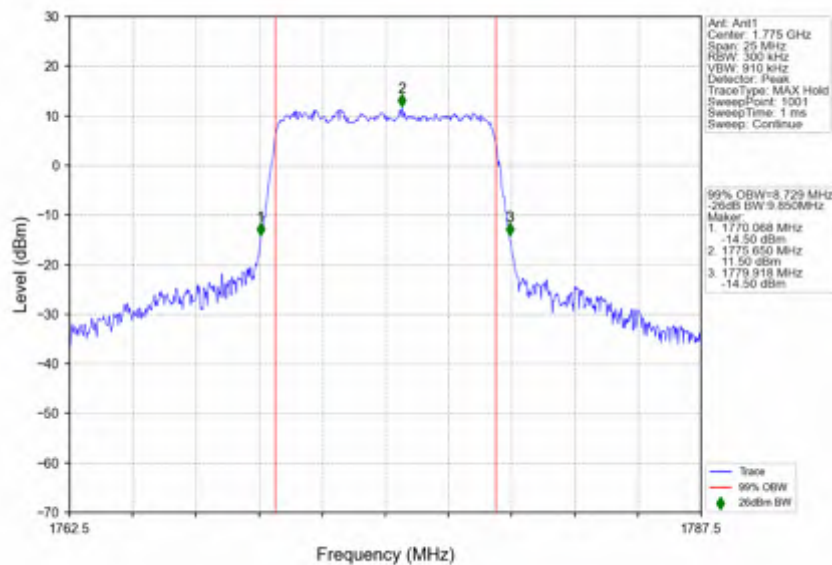
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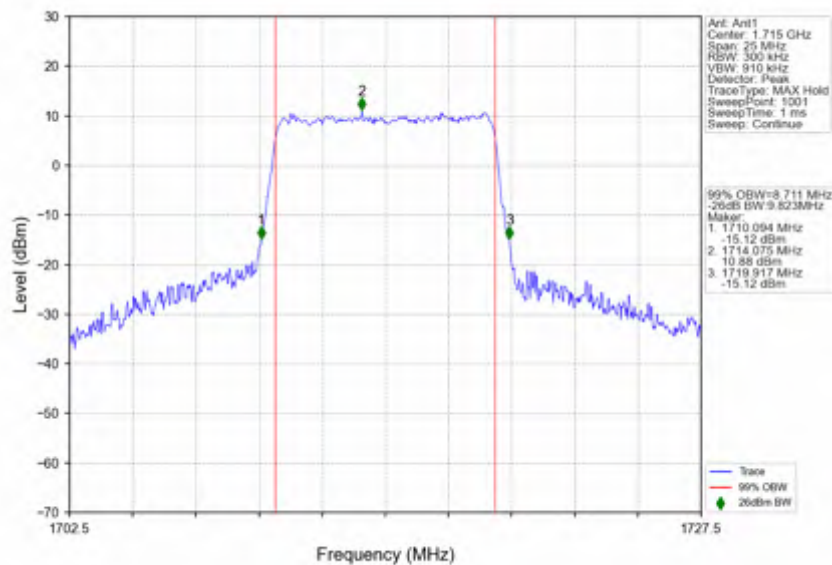
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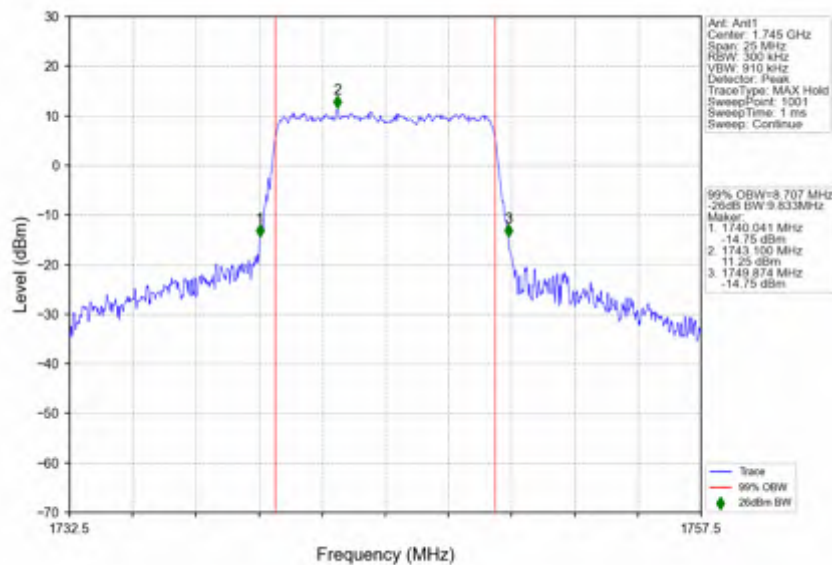
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n66_30kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_1745MHz_Outer_Full



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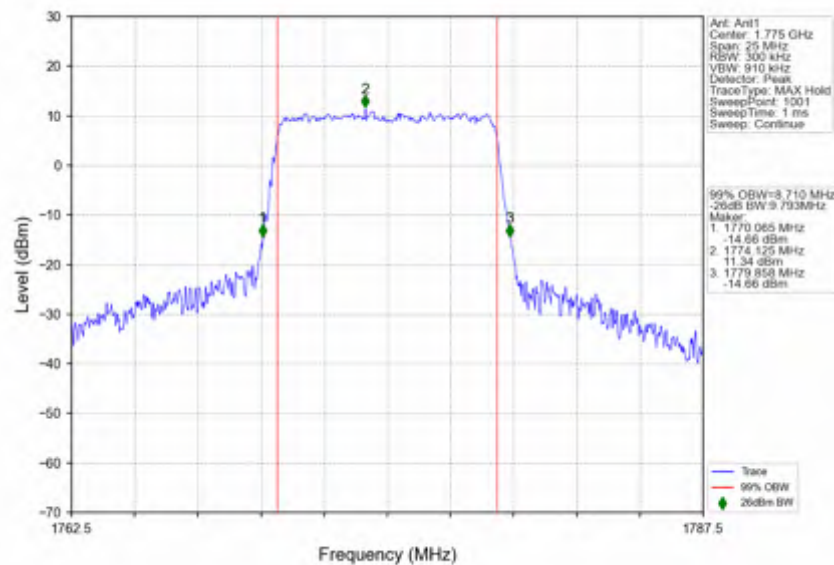
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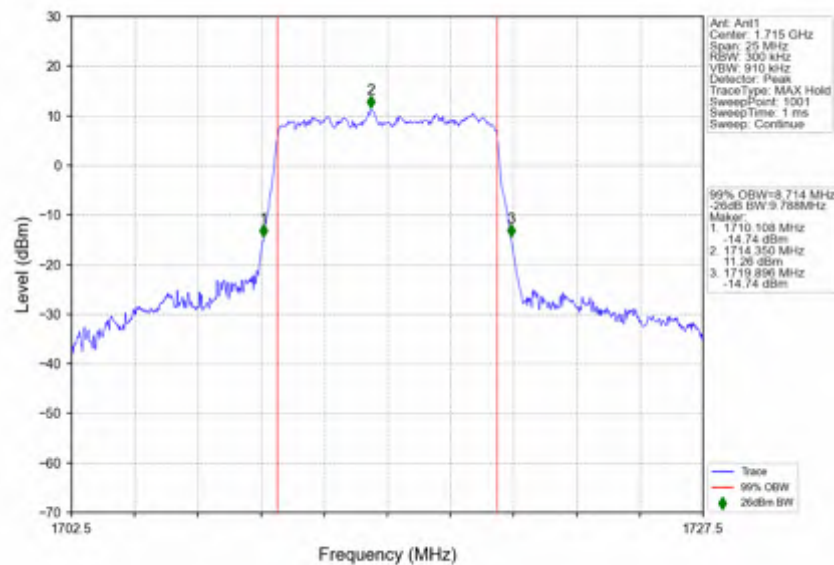
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n66_30kHz_SISO_NTNV_10MHz_CP-OFDM_16 QAM_1775MHz_Outer_Full



n66_30kHz_SISO_NTNV_10MHz_CP-OFDM_64 QAM_1715MHz_Outer_Full



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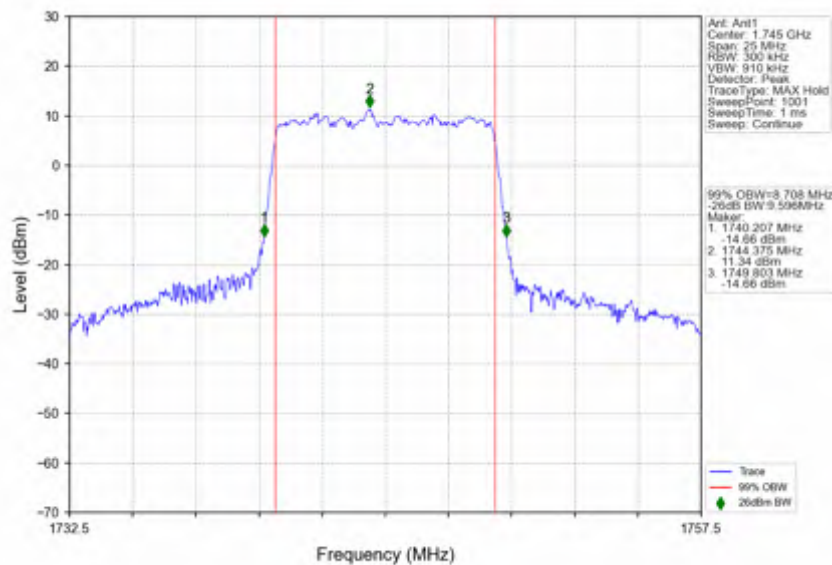
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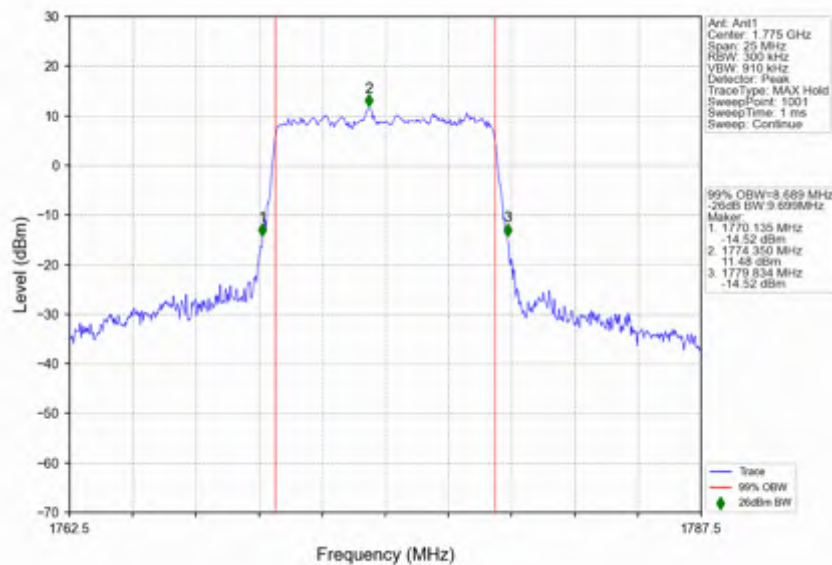
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n66_30kHz_SISO_NTNV_10MHz_CP-OFDM_64_QAM_1745MHz_Outer_Full



n66_30kHz_SISO_NTNV_10MHz_CP-OFDM_64_QAM_1775MHz_Outer_Full



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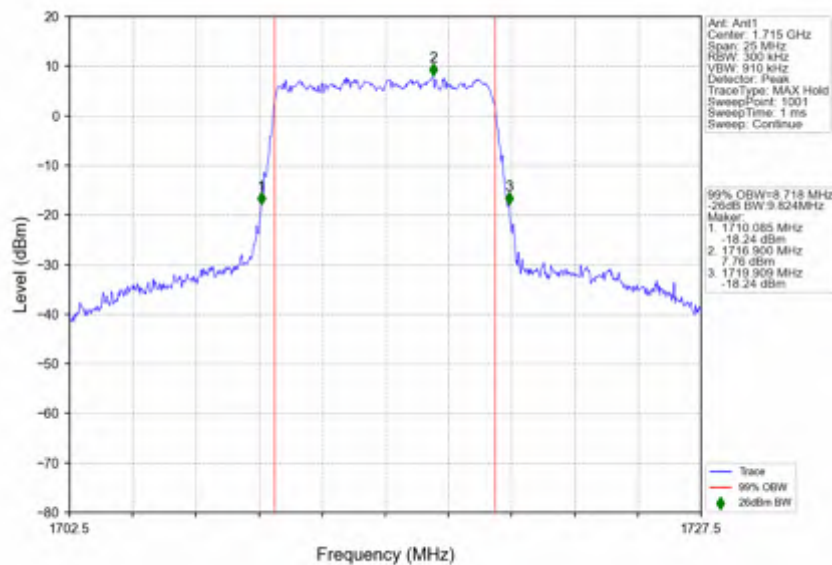
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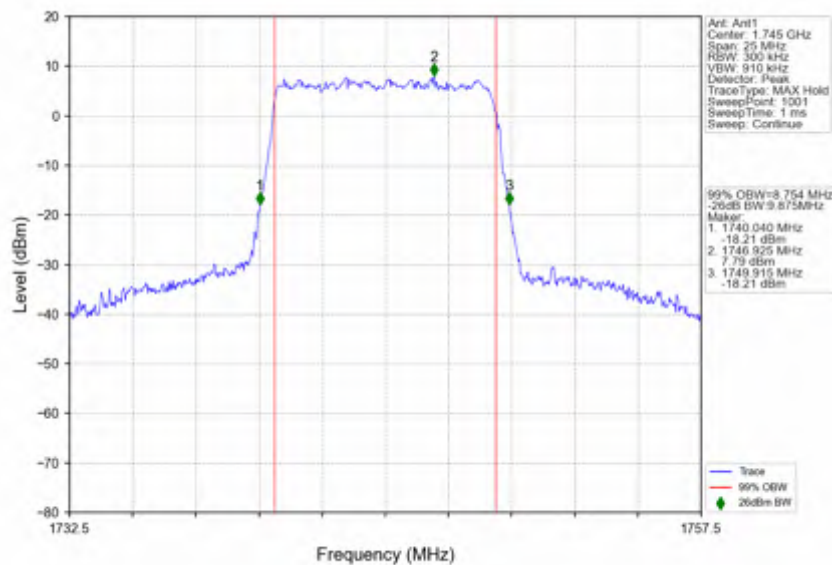
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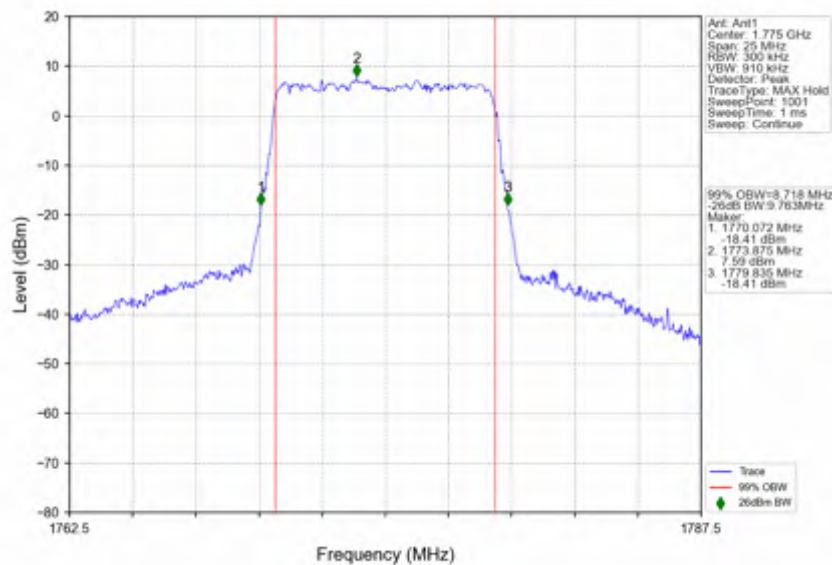
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7.9 30k_SISO_15MHz_NTNV

7.9.1 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	13.14	14.56	/	Pass
	1745	Outer_Full	13.12	14.51	/	Pass
	1772.5	Outer_Full	13.11	14.51	/	Pass
DFT-s-OFDM QPSK	1717.5	Outer_Full	13.08	14.59	/	Pass
	1745	Outer_Full	13.07	14.55	/	Pass
	1772.5	Outer_Full	13.03	14.52	/	Pass
DFT-s-OFDM 16 QAM	1717.5	Outer_Full	13.08	14.57	/	Pass
	1745	Outer_Full	13.05	14.55	/	Pass
	1772.5	Outer_Full	13.07	14.52	/	Pass
DFT-s-OFDM 64 QAM	1717.5	Outer_Full	13.04	14.55	/	Pass
	1745	Outer_Full	13.04	14.53	/	Pass
	1772.5	Outer_Full	13.03	14.51	/	Pass
DFT-s-OFDM 256 QAM	1717.5	Outer_Full	13.05	14.57	/	Pass
	1745	Outer_Full	13.05	14.62	/	Pass
	1772.5	Outer_Full	13.03	14.51	/	Pass
CP-OFDM QPSK	1717.5	Outer_Full	13.80	15.05	/	Pass
	1745	Outer_Full	13.79	15.16	/	Pass
	1772.5	Outer_Full	13.77	15.14	/	Pass
CP-OFDM 16 QAM	1717.5	Outer_Full	13.77	15.07	/	Pass
	1745	Outer_Full	13.80	15.45	/	Pass
	1772.5	Outer_Full	13.76	15.19	/	Pass
CP-OFDM 64 QAM	1717.5	Outer_Full	13.75	15.19	/	Pass
	1745	Outer_Full	13.77	15.17	/	Pass
	1772.5	Outer_Full	13.77	15.24	/	Pass
CP-OFDM 256 QAM	1717.5	Outer_Full	13.71	15.12	/	Pass
	1745	Outer_Full	13.73	15.01	/	Pass
	1772.5	Outer_Full	13.72	15.10	/	Pass



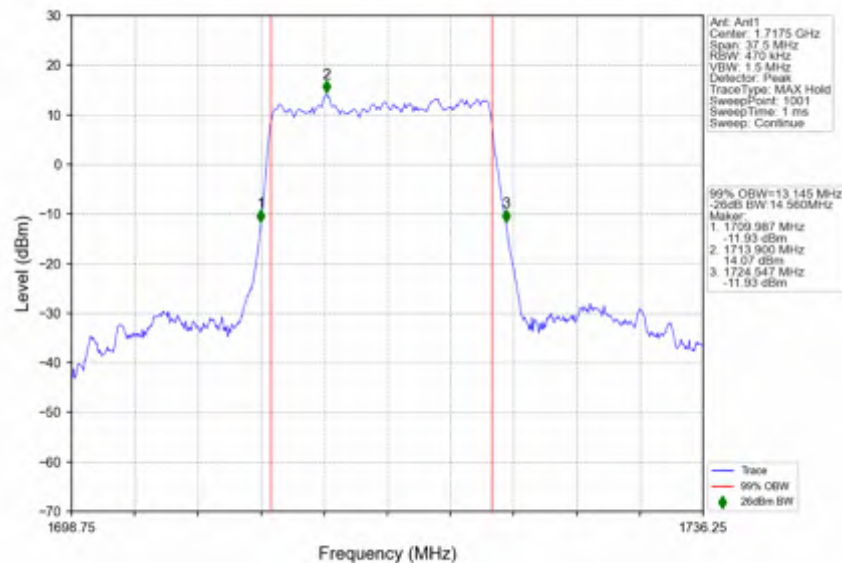
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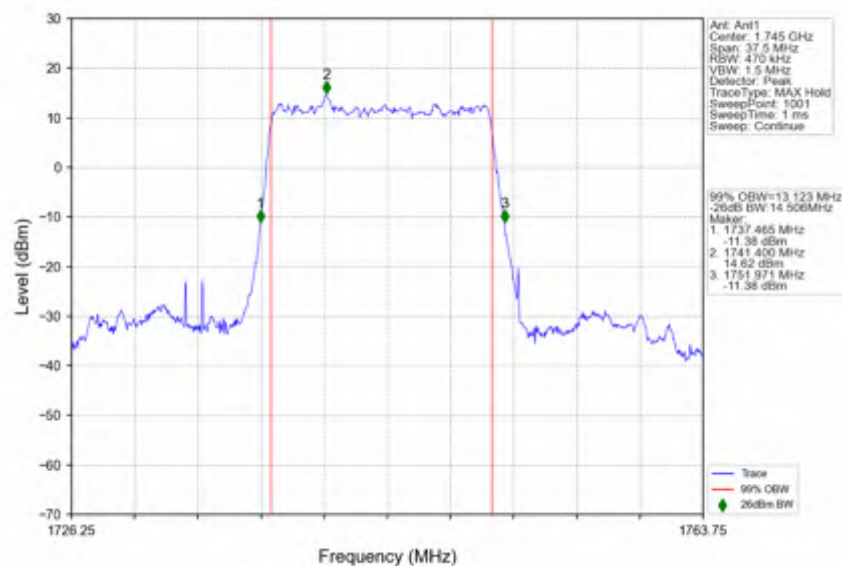
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1.9.2 Test Graph

n66_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1717.5MHz_Outer_Full



n66_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1745MHz_Outer_Full



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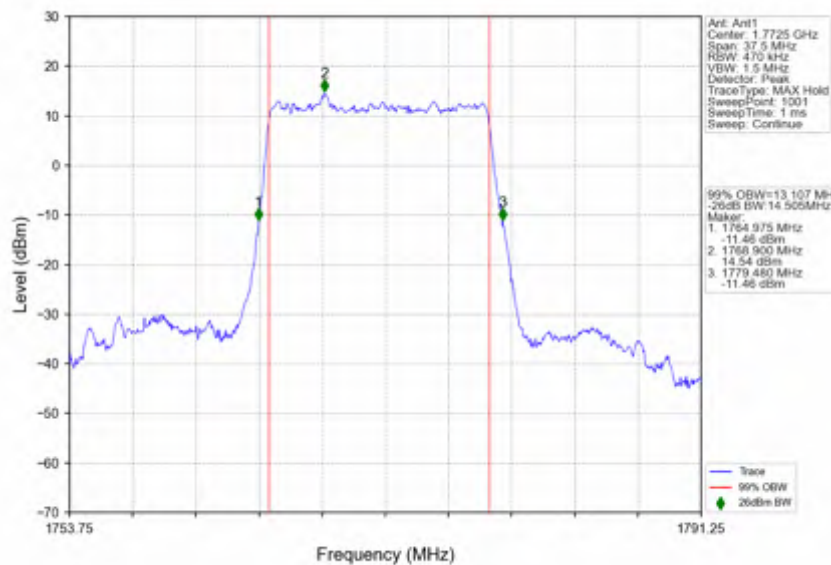
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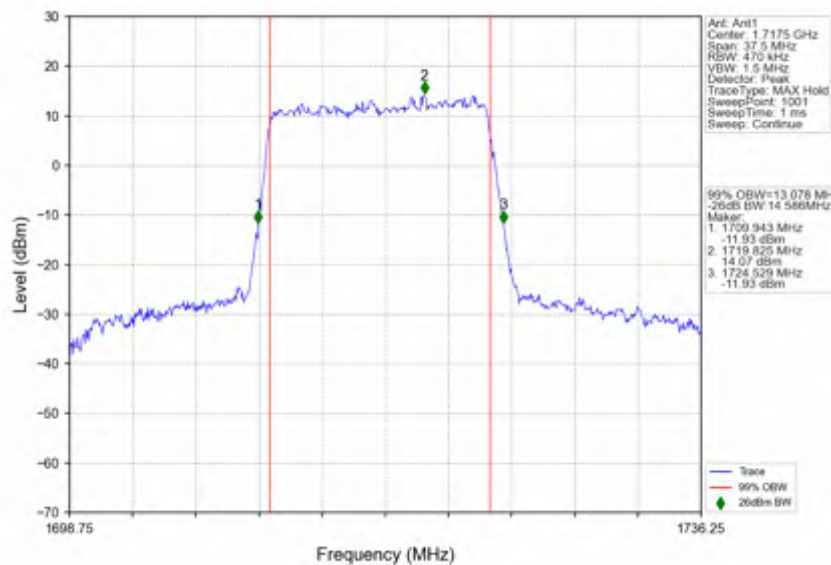
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n66_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_PI/2_BPSK_1772.5MHz_Outer_Full



n66 30kHz SISO NTN 15MHz DFT-s-OFDM QPSK 1717.5MHz Outer Full

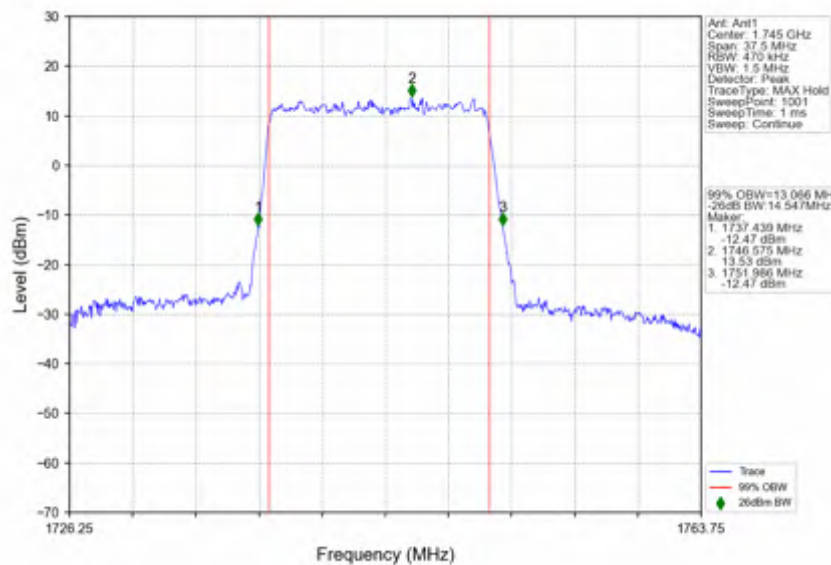


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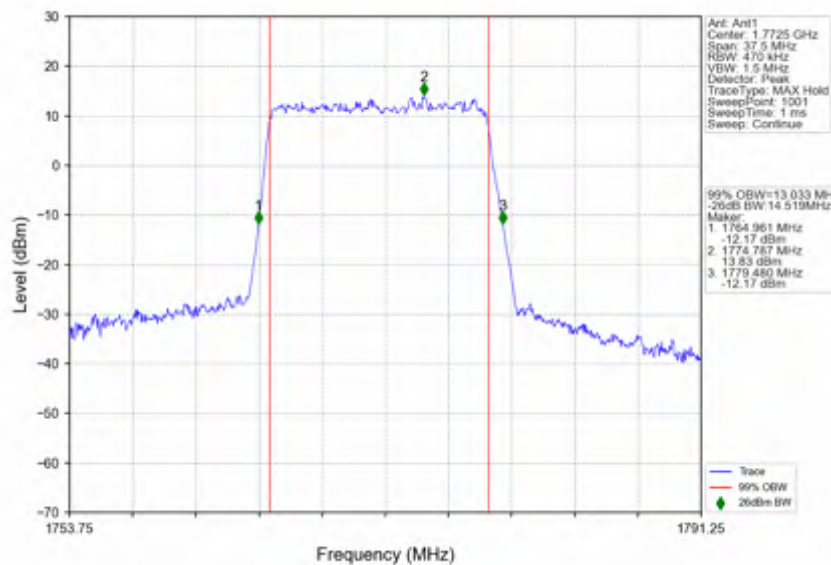
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n66 30kHz SISO NTV 15MHz DFT-s-OFDM QPSK 1772.5MHz Outer Full

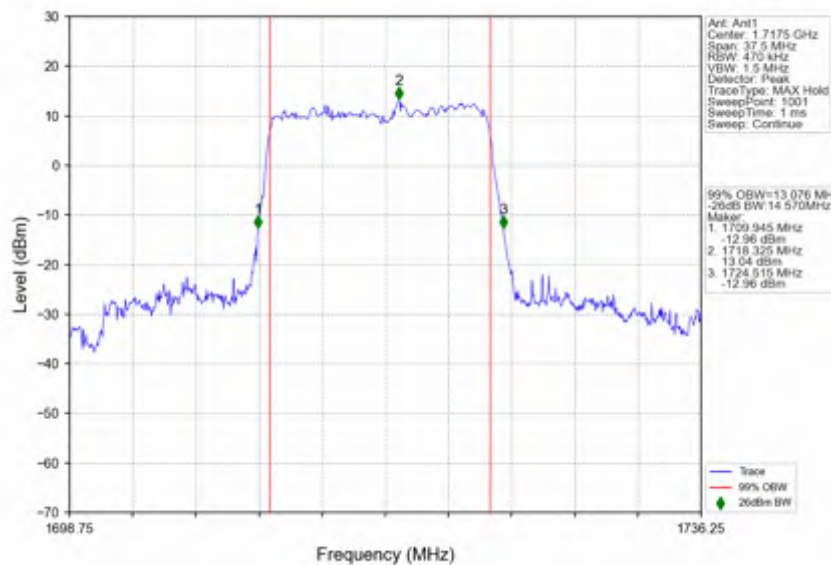


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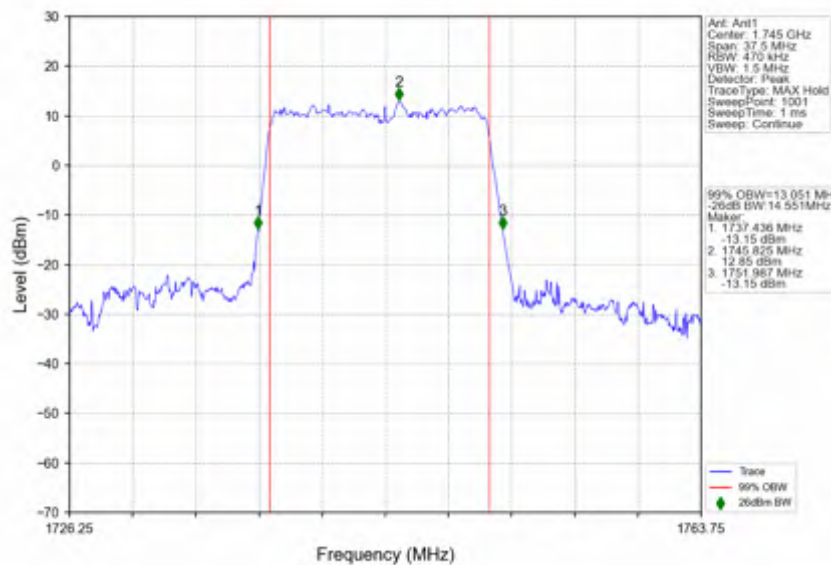
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n66 30kHz SISO NTN 15MHz DFT-s-OFDM 16 QAM 1745MHz Outer Full

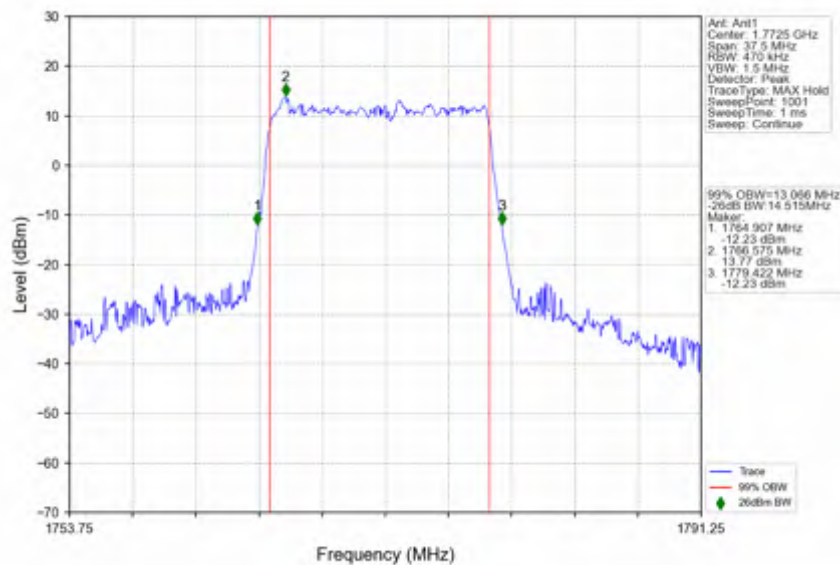


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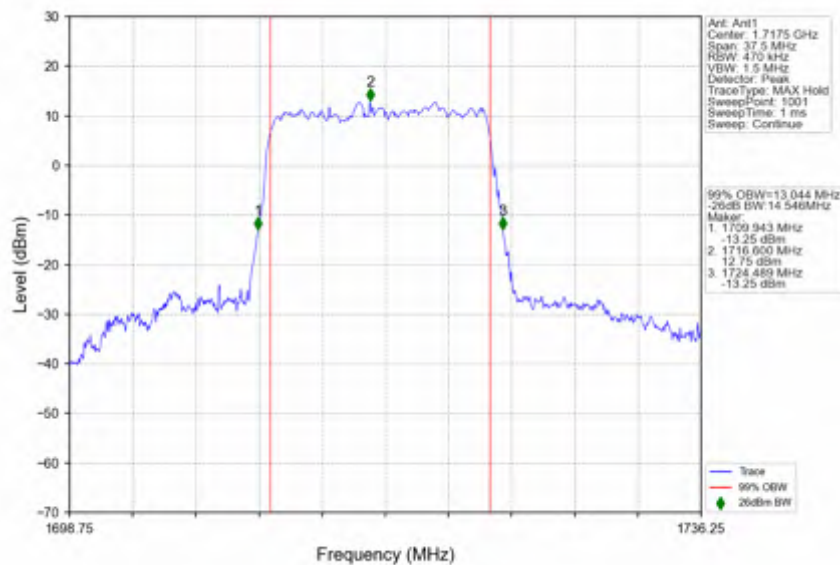
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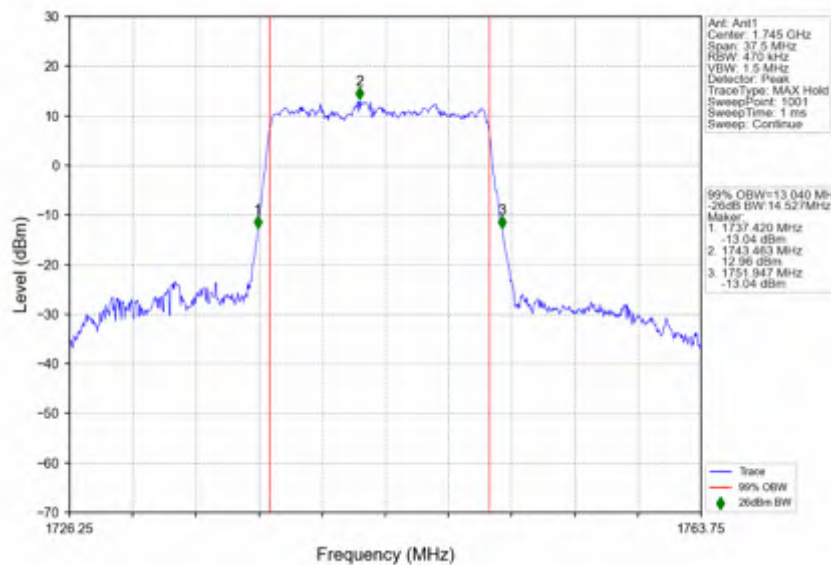
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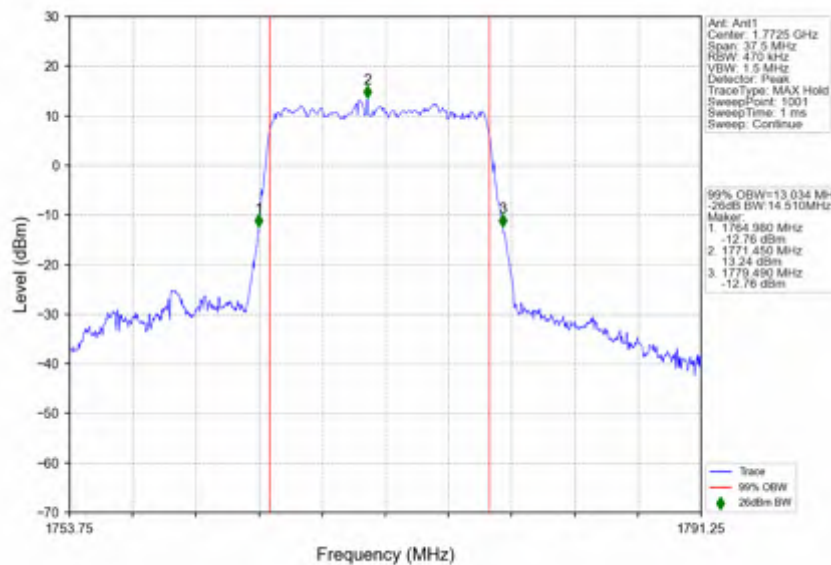
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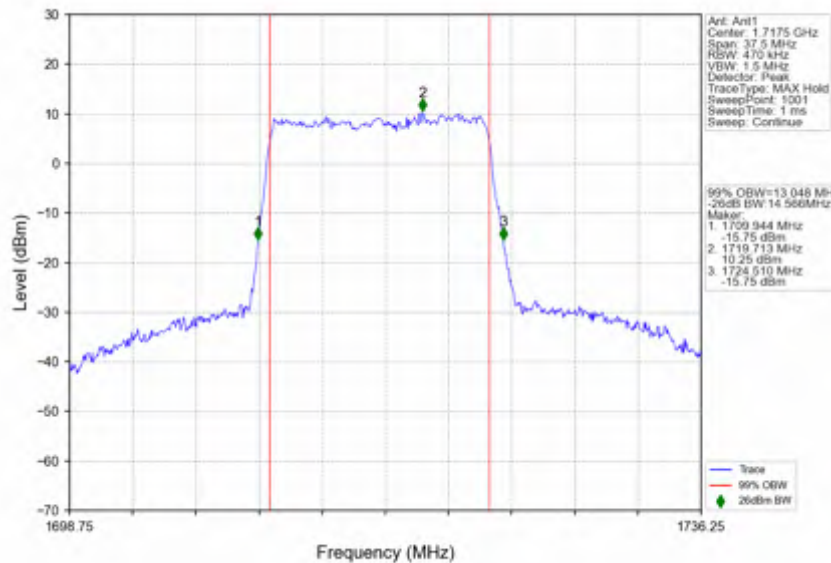


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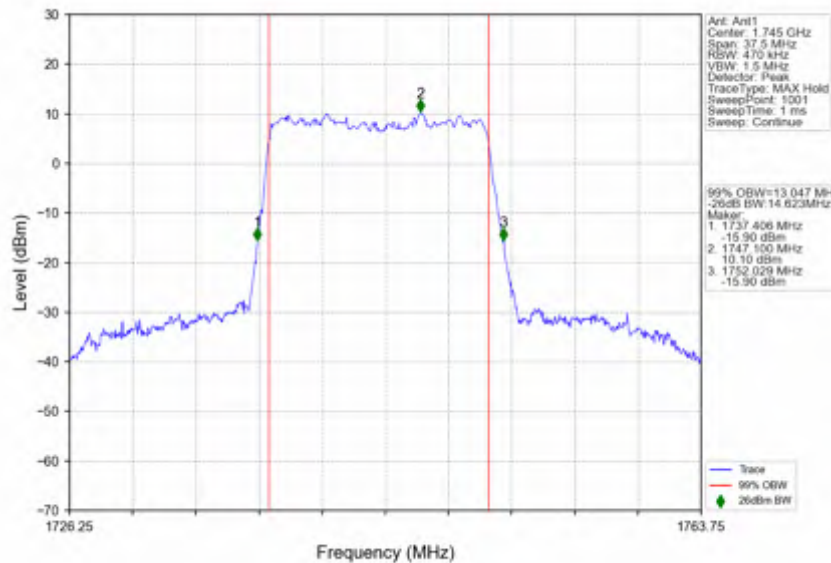
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n66_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_1717.5MHz_Outer_Full



n66_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_1745MHz_Outer_Full



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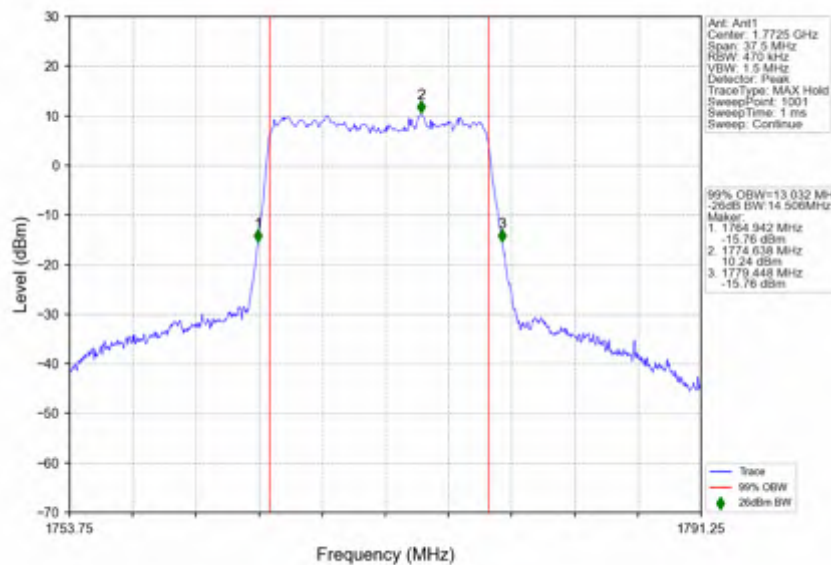
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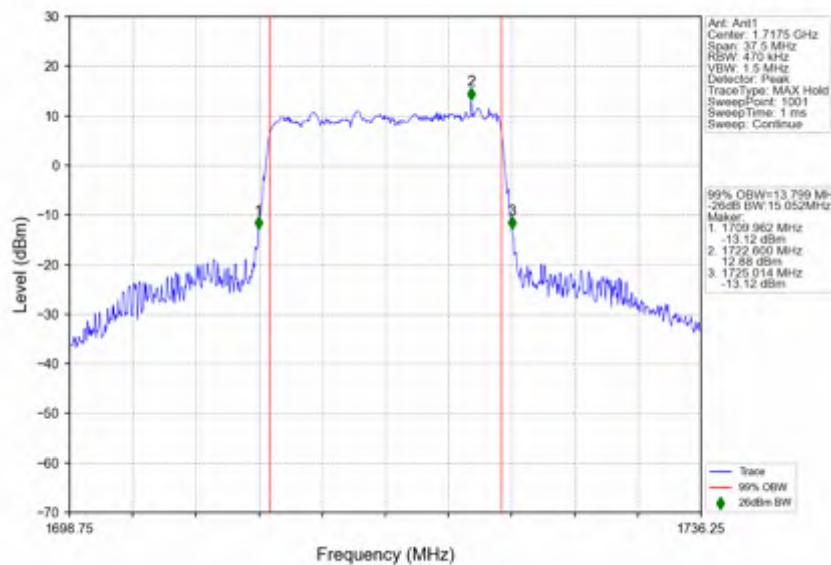
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n66_30kHz_SISO_NTNV_15MHz_CP-OFDM_QPSK_1717.5MHz_Outer_Full



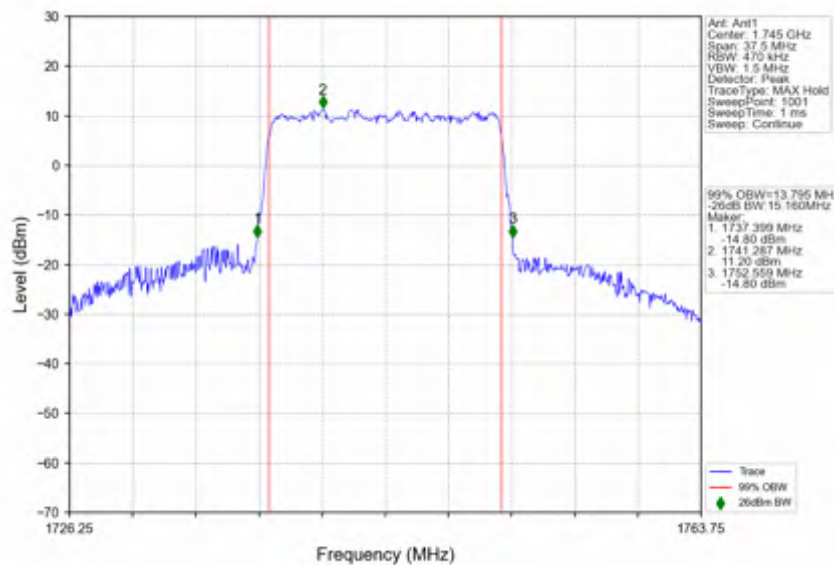
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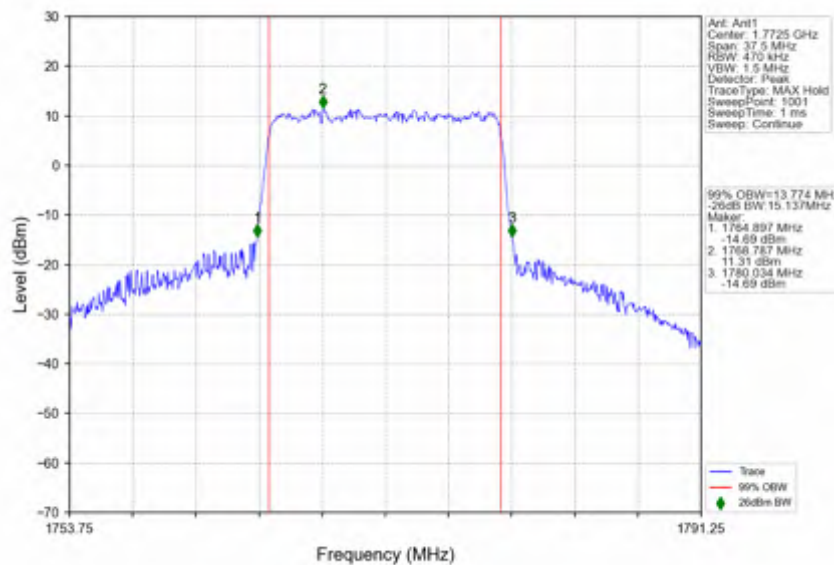
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n66_30kHz_SISO_NTV_15MHz_CP-OFDM_QPSK_1745MHz_Outer_Full



n66 30kHz SISO NTN 15MHz CP-OFDM QPSK 1772.5MHz Outer Full

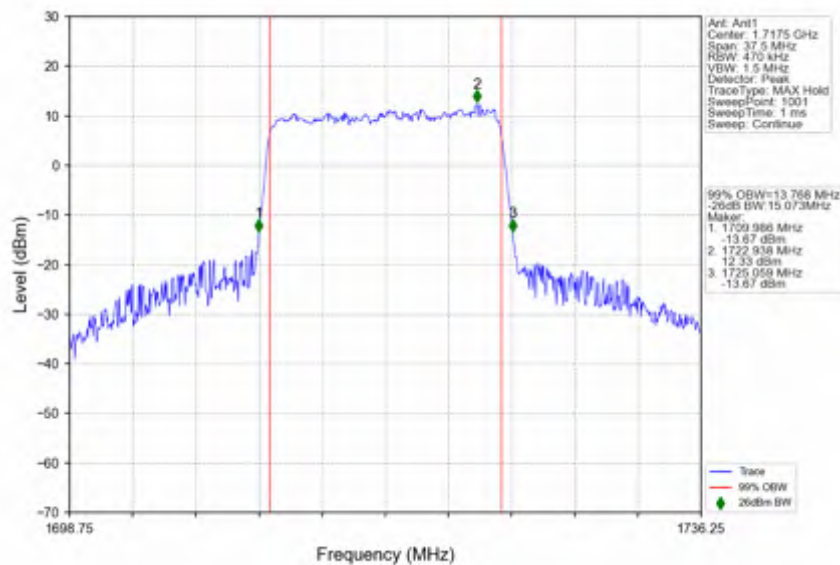


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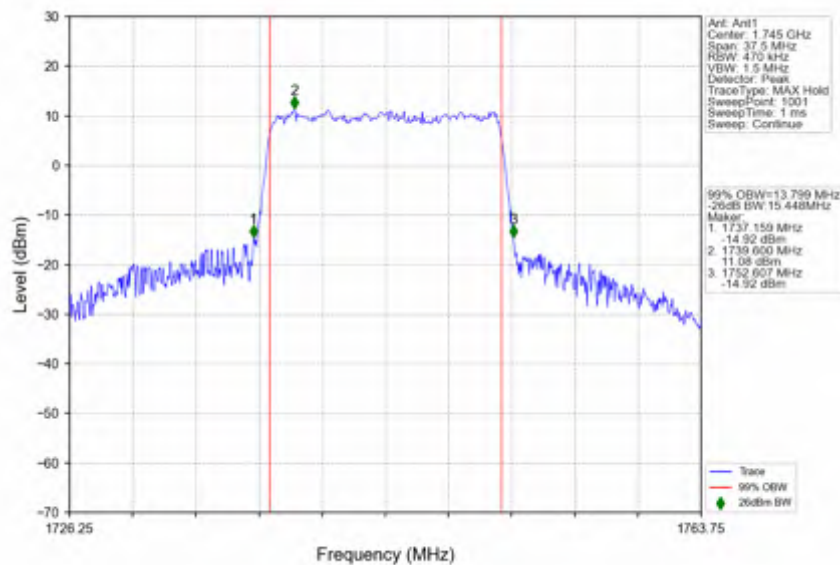
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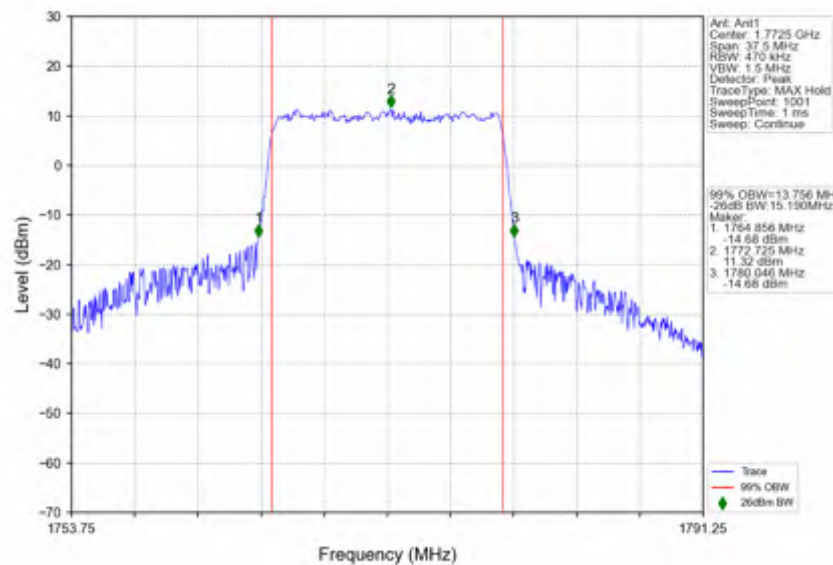
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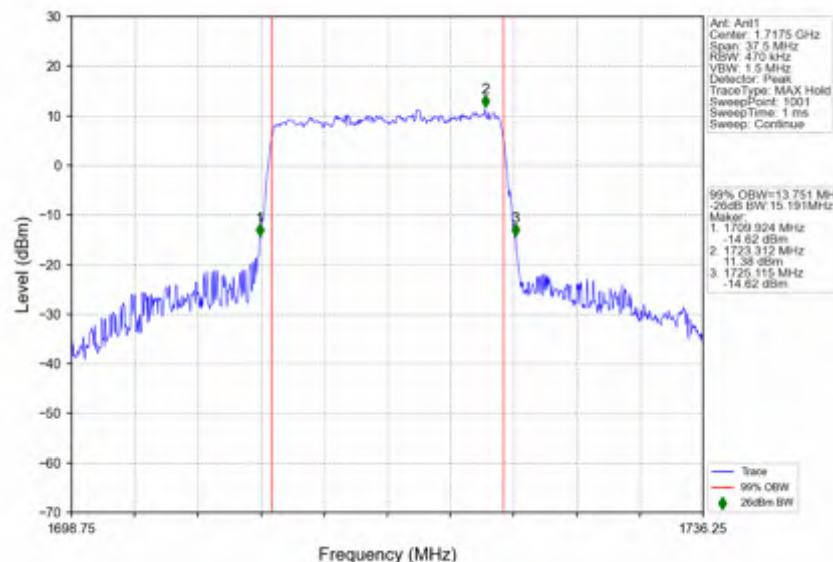
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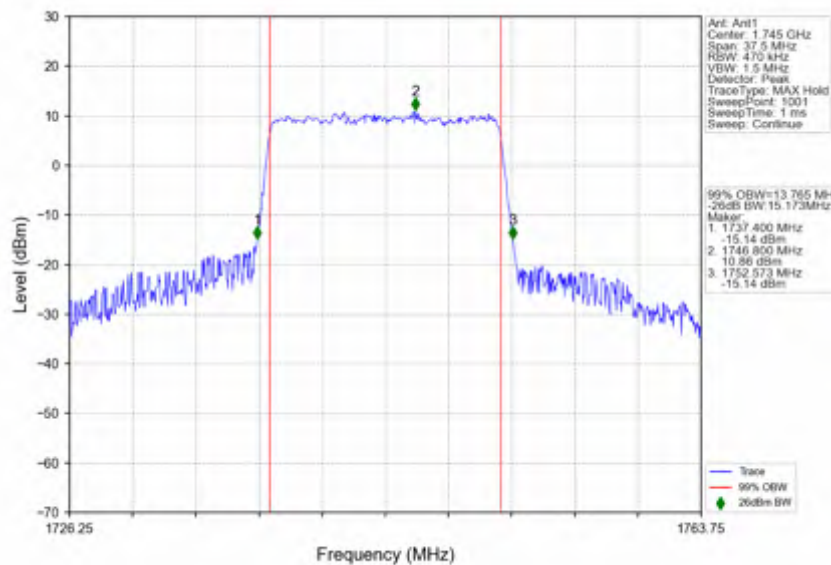
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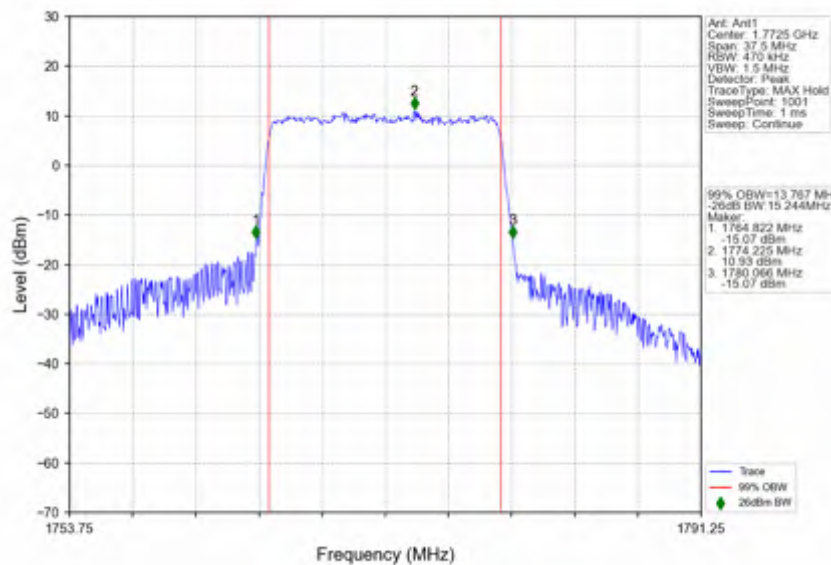
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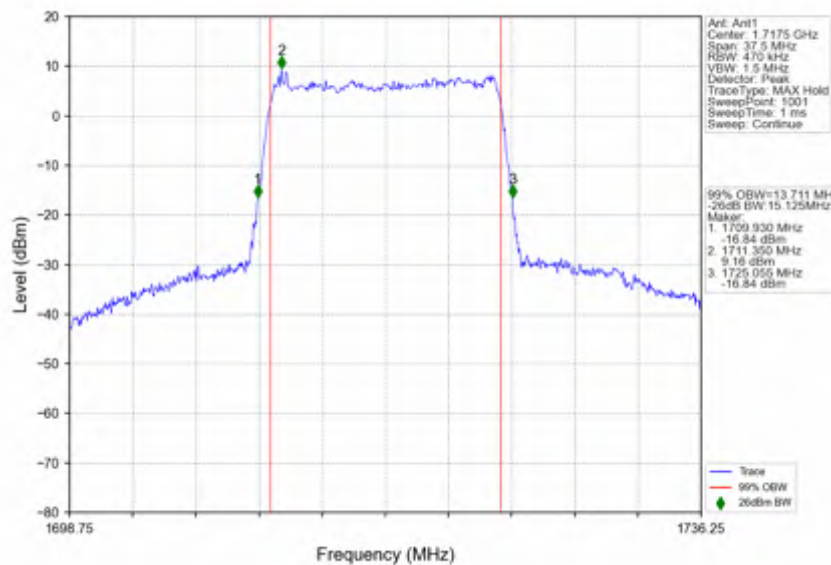
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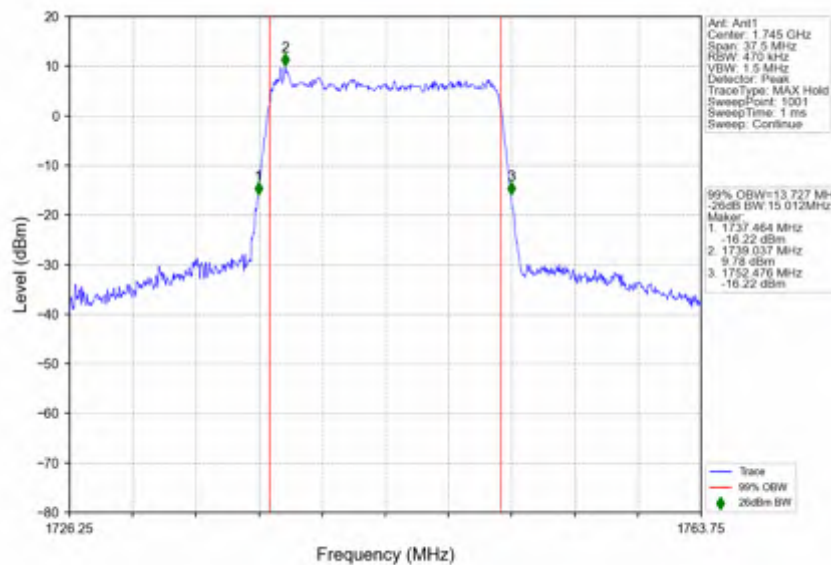
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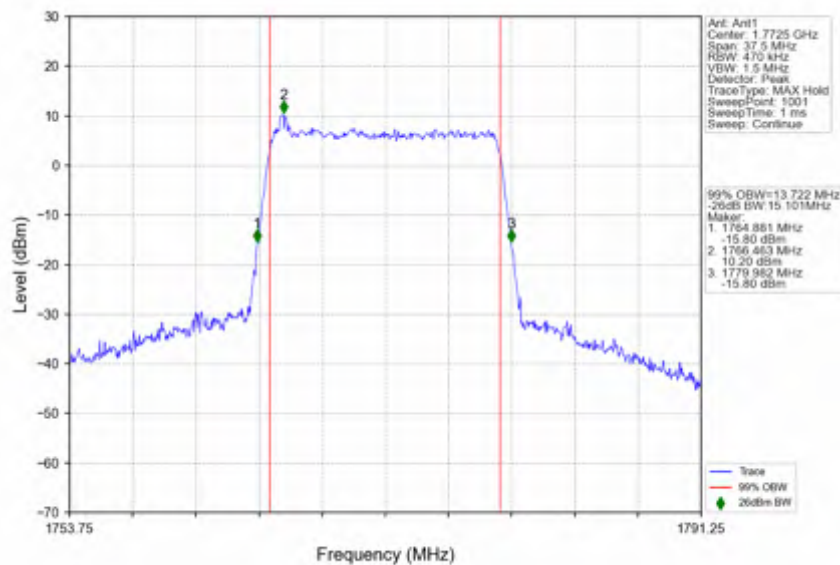
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**7.10 30k_SISO_20MHz_NTNV****7.10.1 Test Result**

5G NR n66 SCS=30kHz SISO 20MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1720	Outer_Full	18.06	19.77	/	Pass
	1745	Outer_Full	18.11	19.91	/	Pass
	1770	Outer_Full	18.08	19.82	/	Pass
DFT-s-OFDM QPSK	1720	Outer_Full	18.06	19.82	/	Pass
	1745	Outer_Full	18.14	19.85	/	Pass
	1770	Outer_Full	18.11	19.73	/	Pass
DFT-s-OFDM 16 QAM	1720	Outer_Full	18.04	19.68	/	Pass
	1745	Outer_Full	18.09	19.88	/	Pass
	1770	Outer_Full	18.04	19.77	/	Pass
DFT-s-OFDM 64 QAM	1720	Outer_Full	18.02	19.93	/	Pass
	1745	Outer_Full	18.12	19.81	/	Pass
	1770	Outer_Full	18.03	19.84	/	Pass
DFT-s-OFDM 256 QAM	1720	Outer_Full	18.04	19.87	/	Pass
	1745	Outer_Full	18.07	19.92	/	Pass
	1770	Outer_Full	18.06	19.88	/	Pass
CP-OFDM QPSK	1720	Outer_Full	18.43	19.98	/	Pass
	1745	Outer_Full	18.44	20.15	/	Pass
	1770	Outer_Full	18.37	20.12	/	Pass
CP-OFDM 16 QAM	1720	Outer_Full	18.45	20.12	/	Pass
	1745	Outer_Full	18.51	20.18	/	Pass
	1770	Outer_Full	18.48	20.17	/	Pass
CP-OFDM 64 QAM	1720	Outer_Full	18.32	20.32	/	Pass
	1745	Outer_Full	18.39	20.28	/	Pass
	1770	Outer_Full	18.43	20.18	/	Pass
CP-OFDM 256 QAM	1720	Outer_Full	18.40	20.12	/	Pass
	1745	Outer_Full	18.47	20.14	/	Pass
	1770	Outer_Full	18.45	20.16	/	Pass



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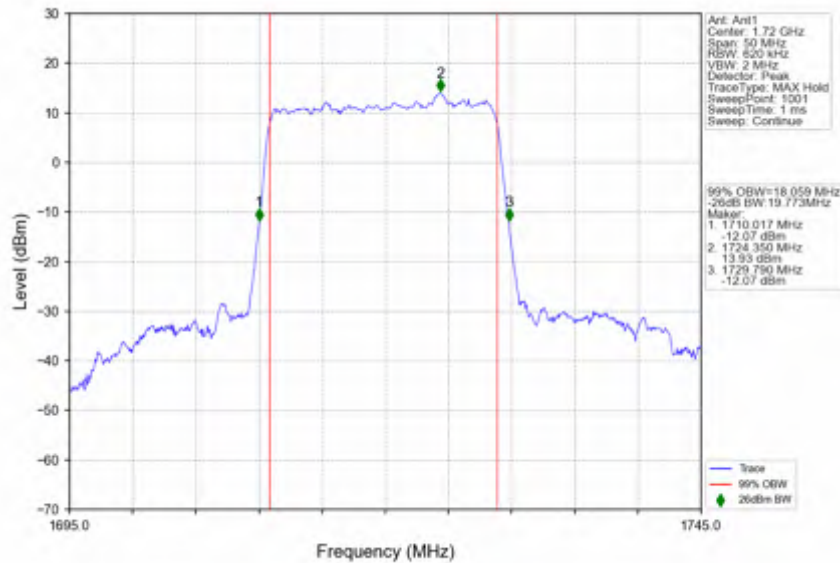
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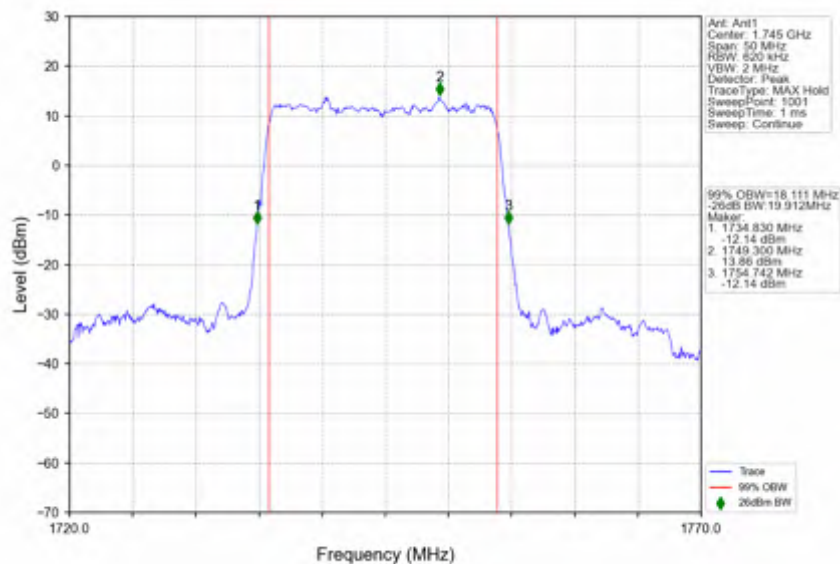
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7.10.2 Test Graph

n66 30kHz SISO NTV 20MHz DFT-s-OFDM PI/2 BPSK 1720MHz Outer Full



n66	30kHz	SISO	NTNV	20MHz	DFT-s-OFDM	PI/2 BPSK	1745MHz	Outer	Full
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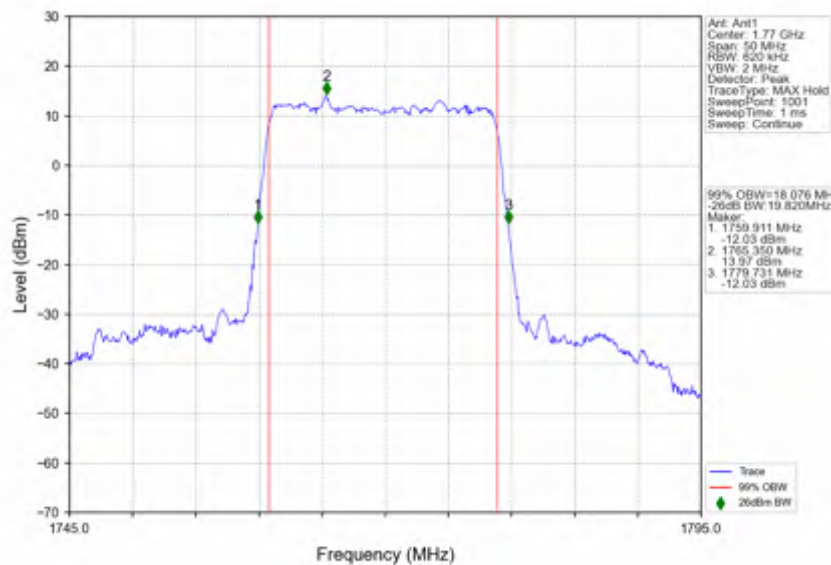


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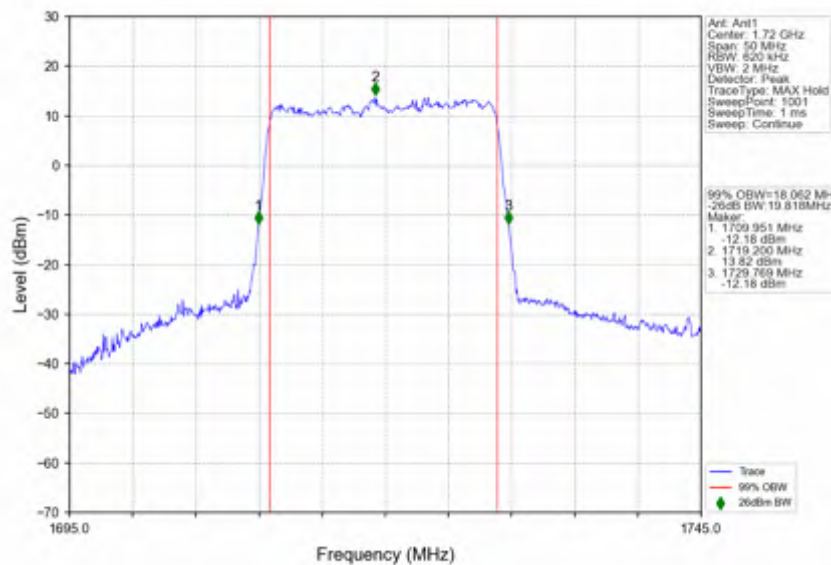
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n66_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_1720MHz_Outer_Full



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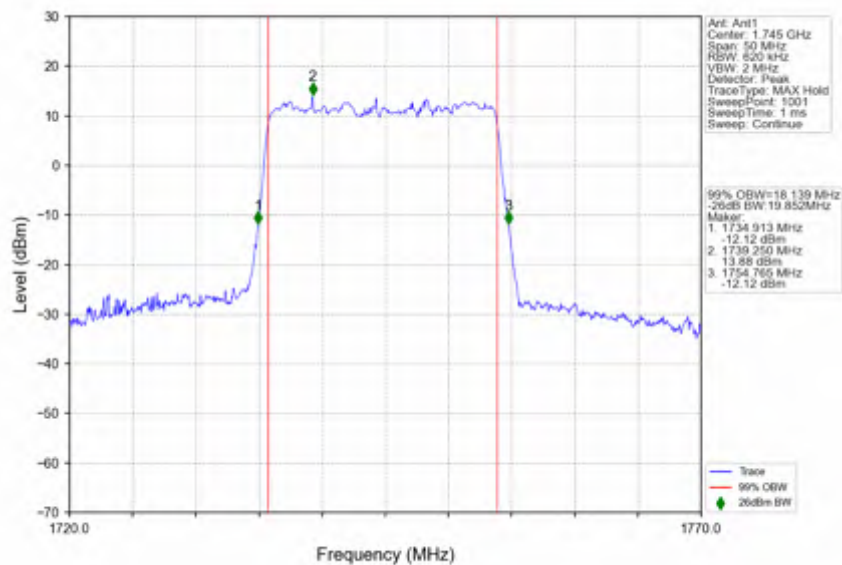
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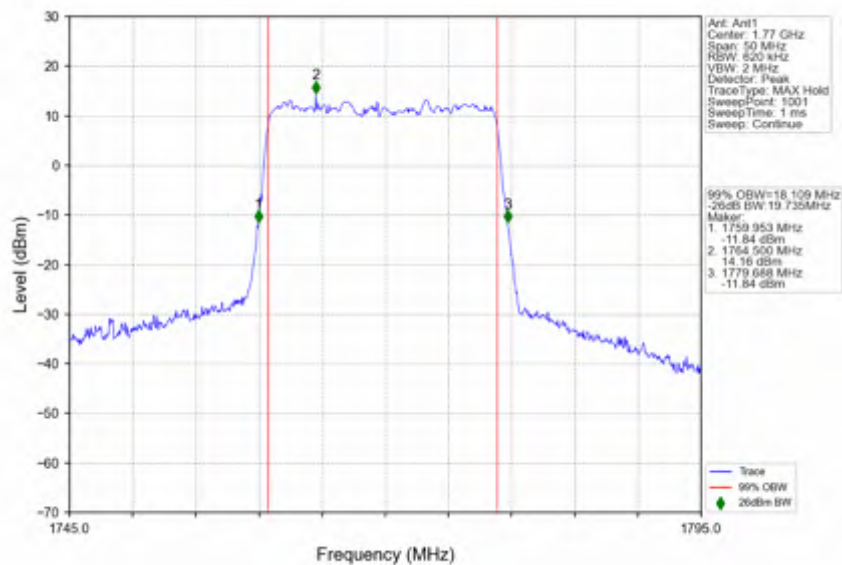
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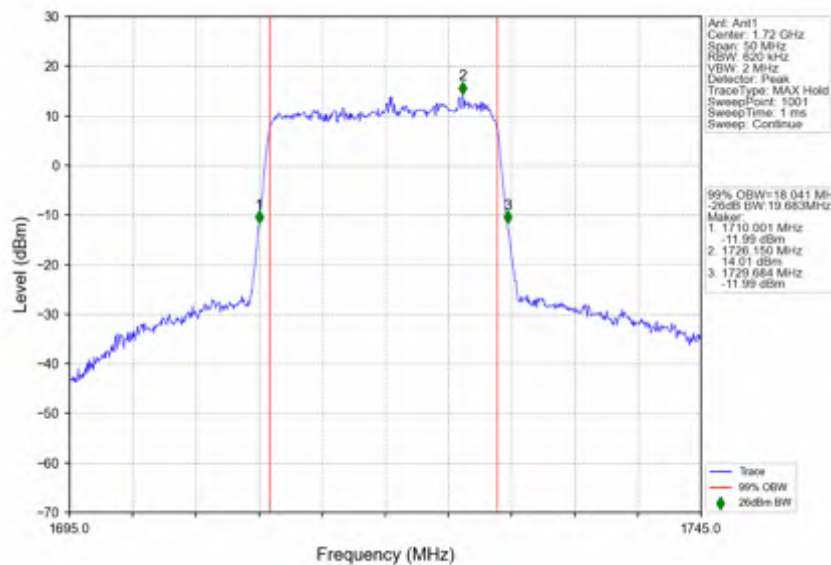
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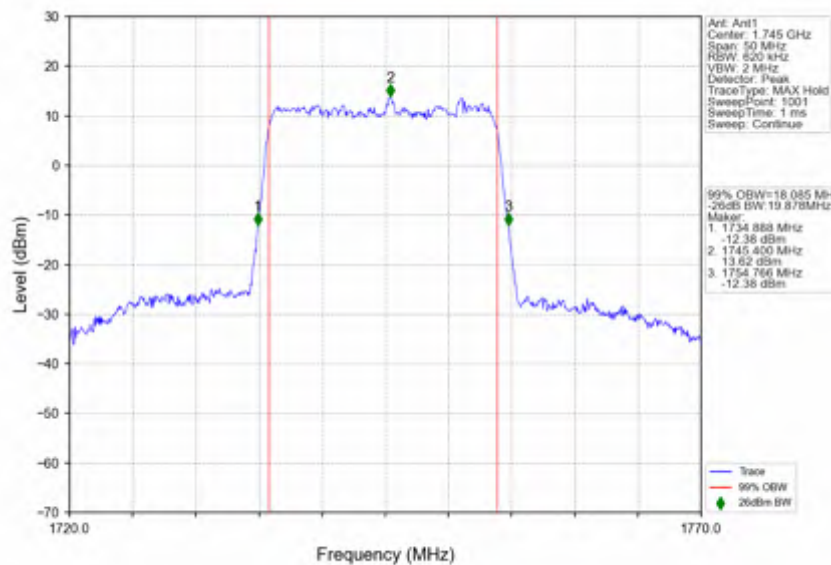
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n66_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_1720MHz_Outer_Full



n66_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_1745MHz_Outer_Full



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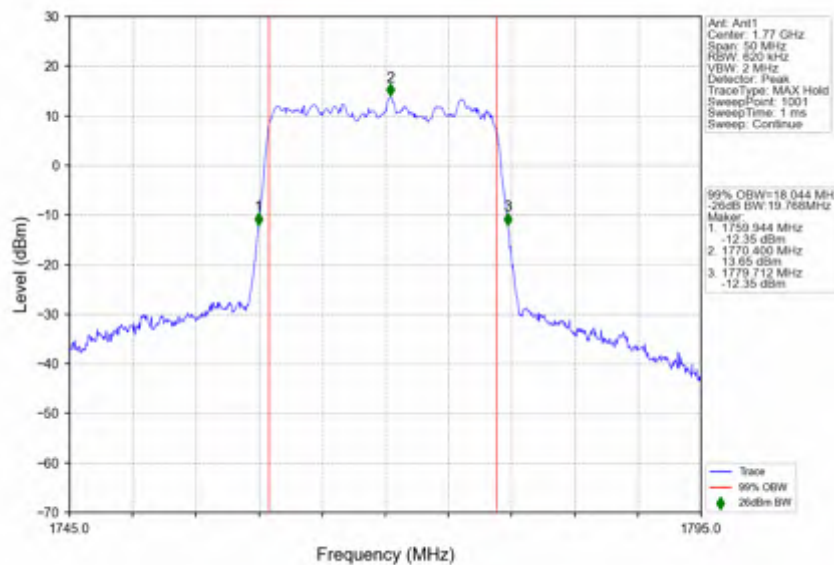
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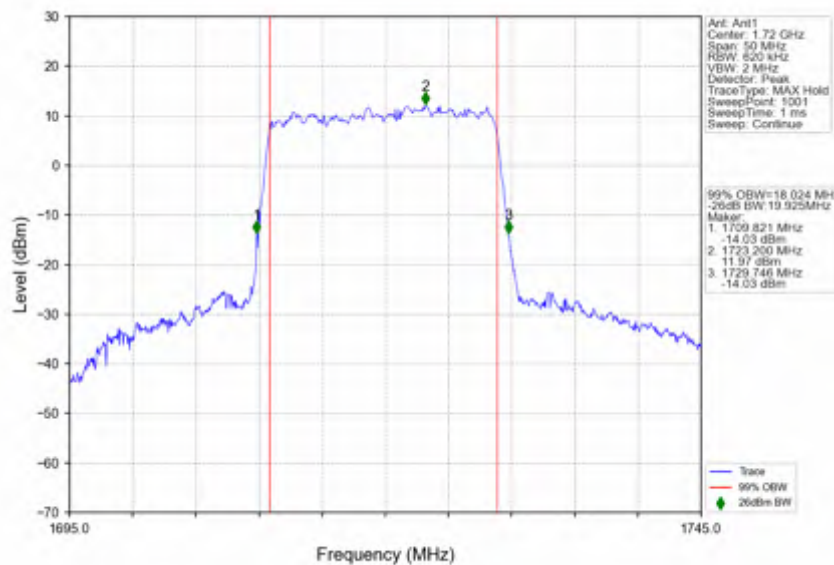
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n66_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16 QAM_1770MHz_Outer_Full



n66_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64 QAM_1720MHz_Outer_Full



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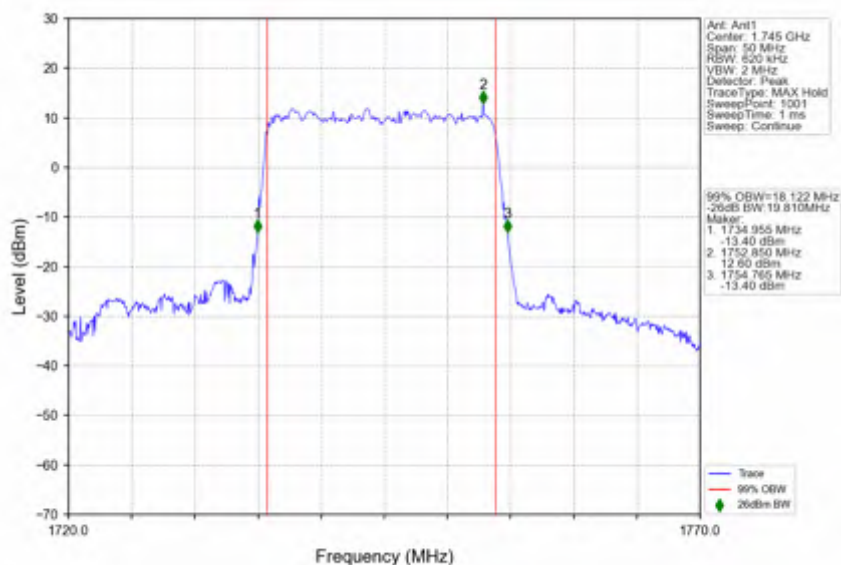
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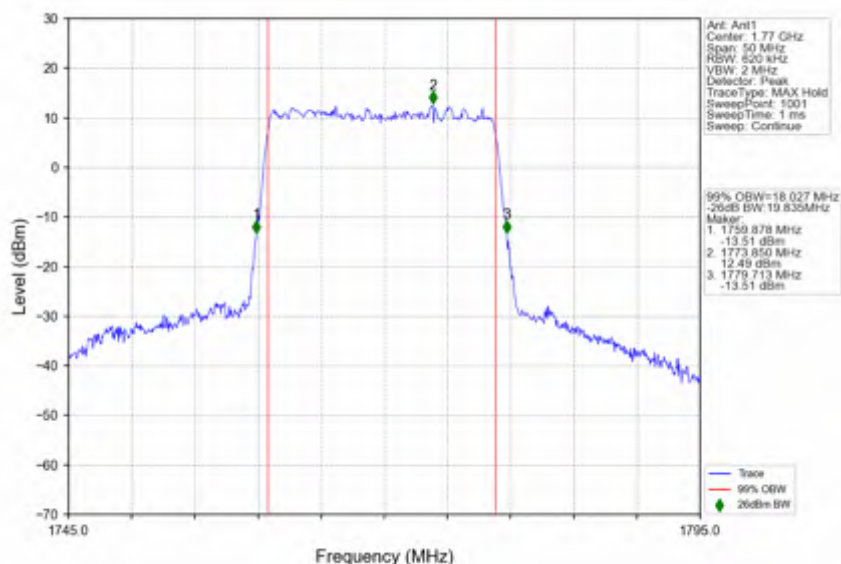
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n66 30kHz SISO NTNV 20MHz DFT-s-OFDM 64 QAM 1745MHz Outer Full



n66	30kHz	SISO	NTNV	20MHz	DFT-s-OFDM	64 QAM	1770MHz	Outer	Full
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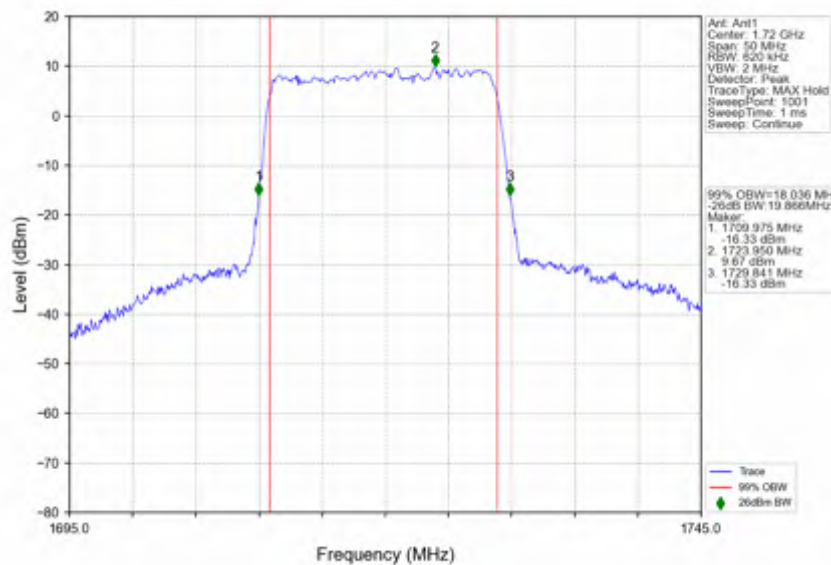


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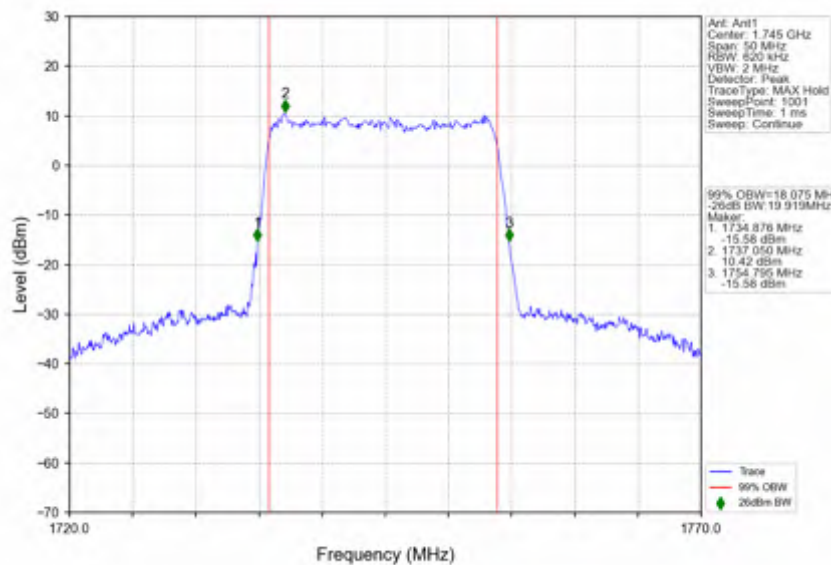
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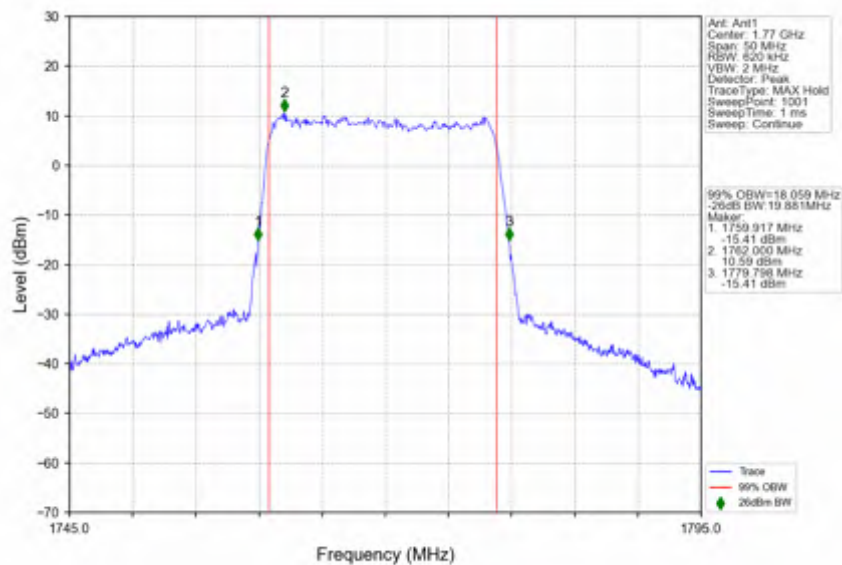
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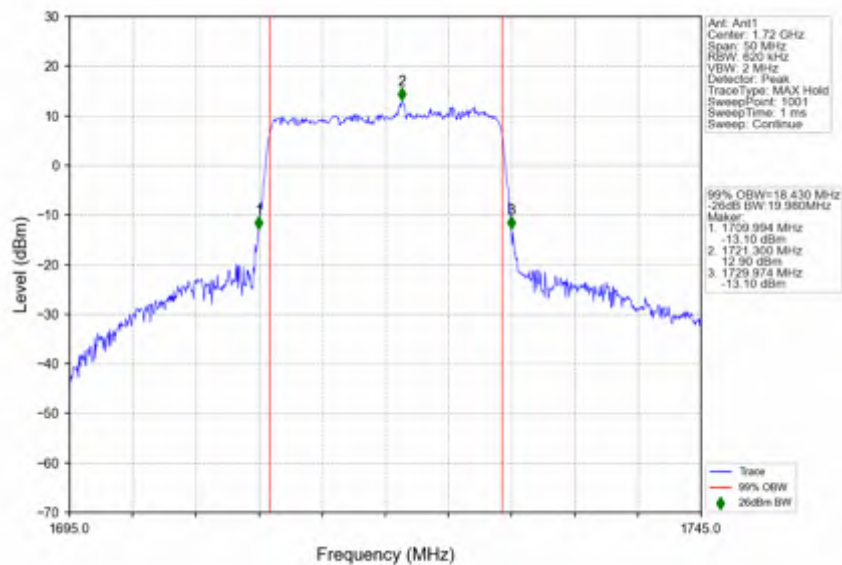
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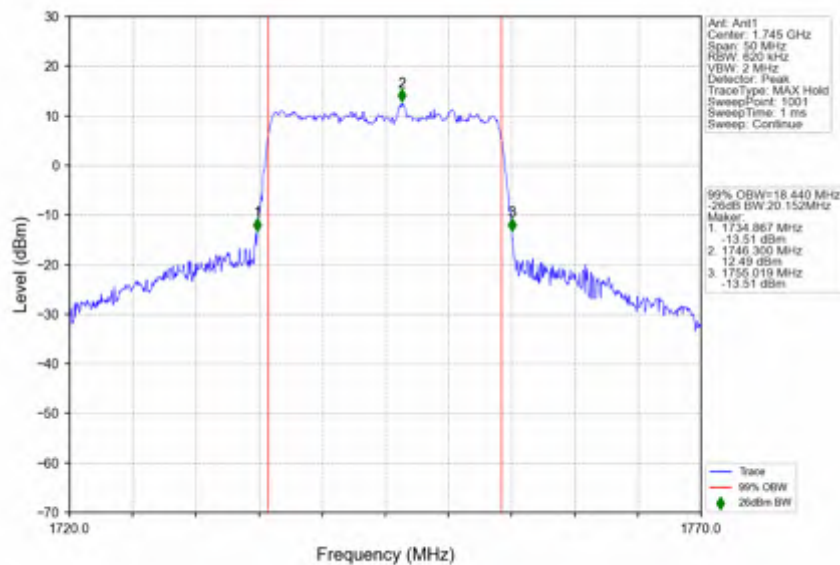


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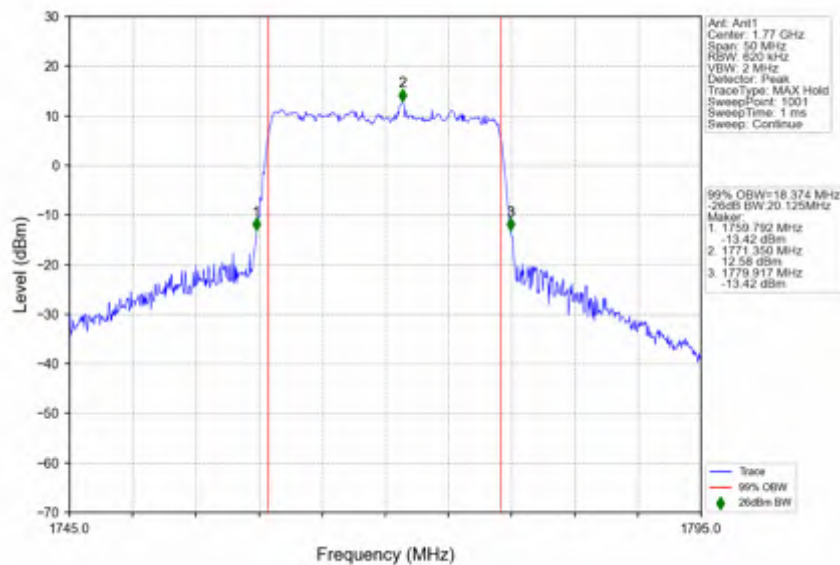
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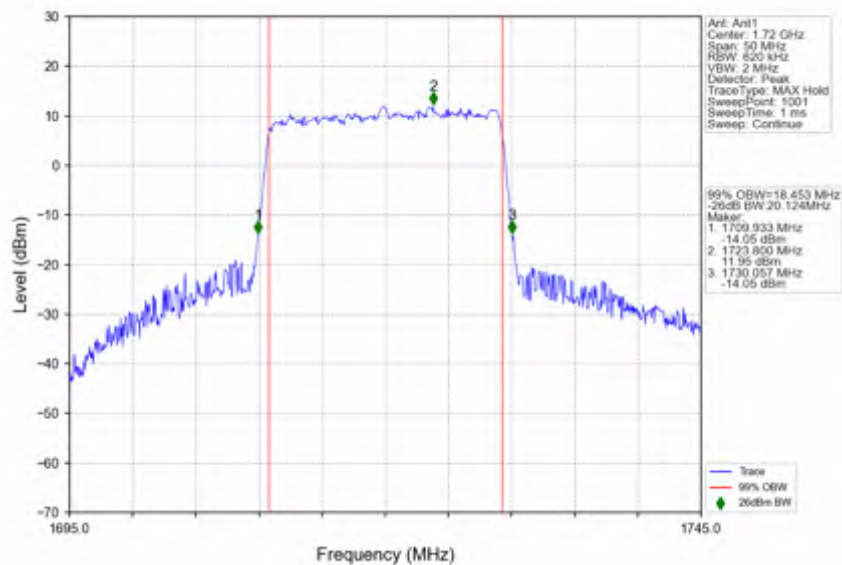


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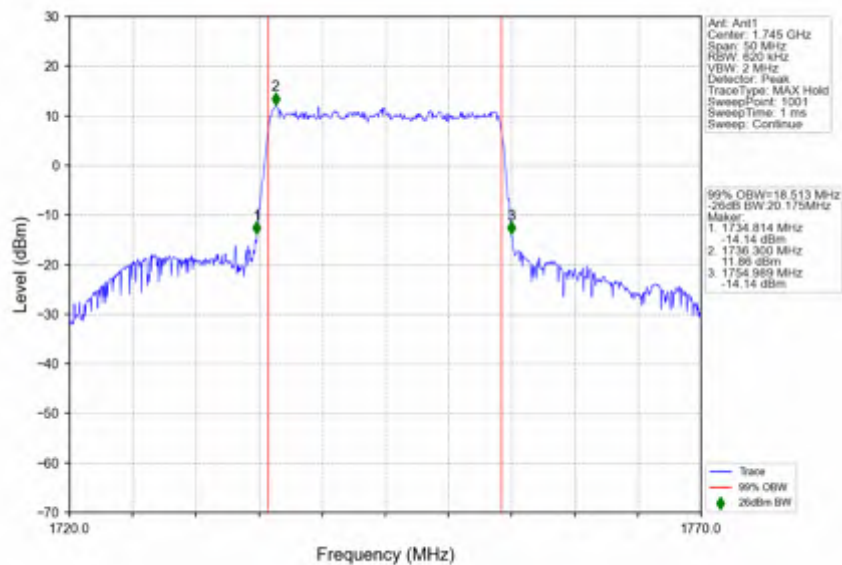
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n66_30kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_1720MHz_Outer_Full



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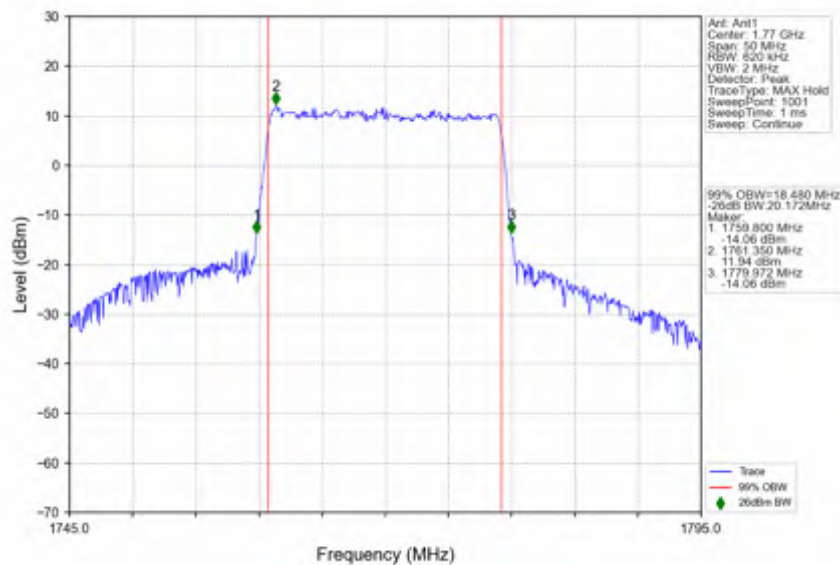


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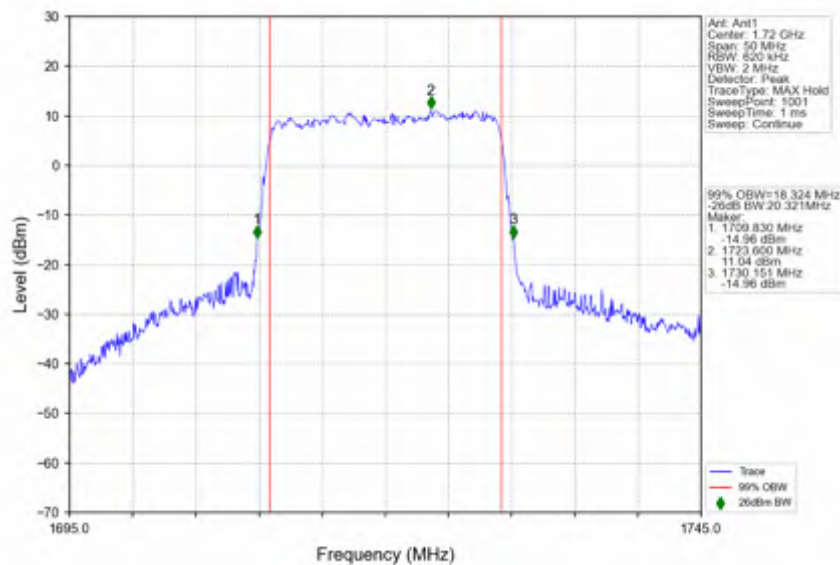
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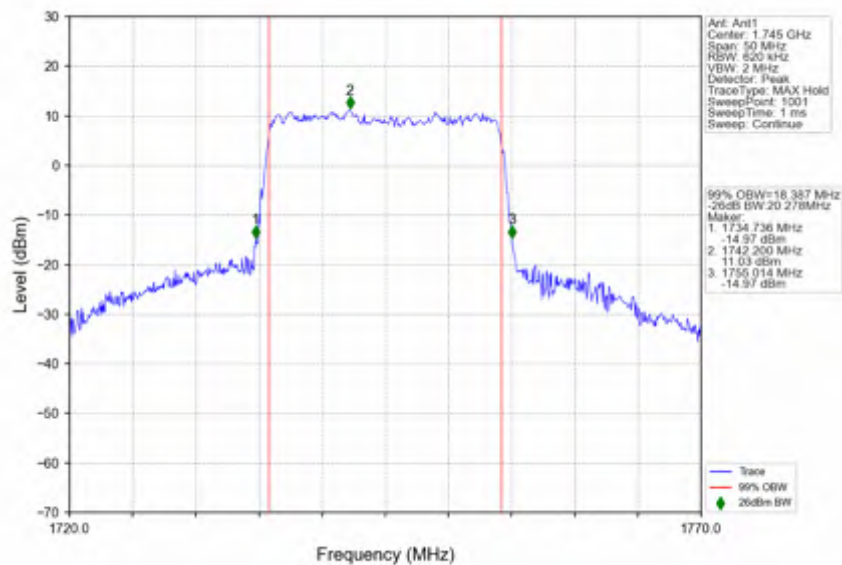


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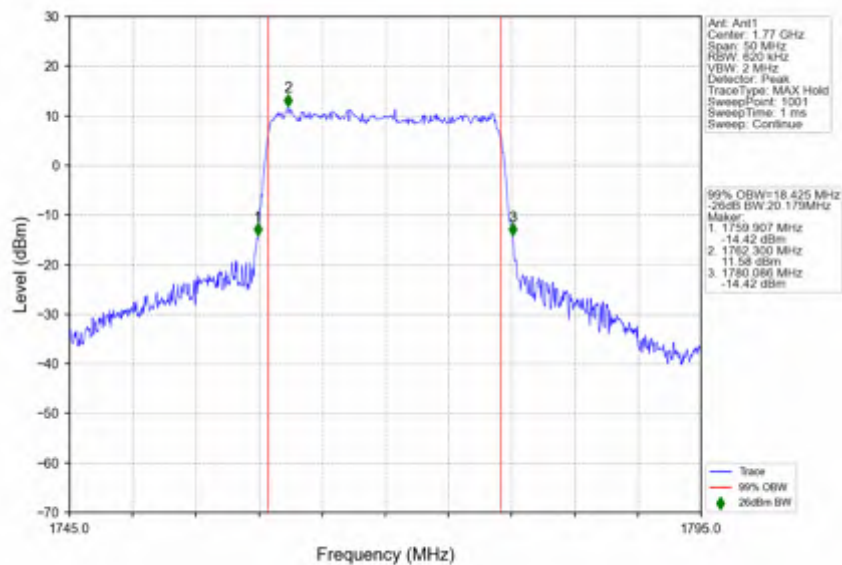
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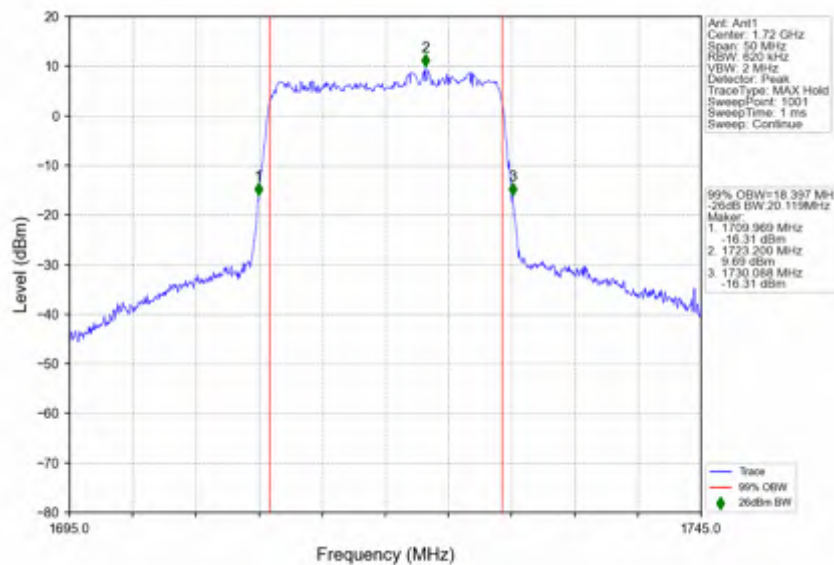
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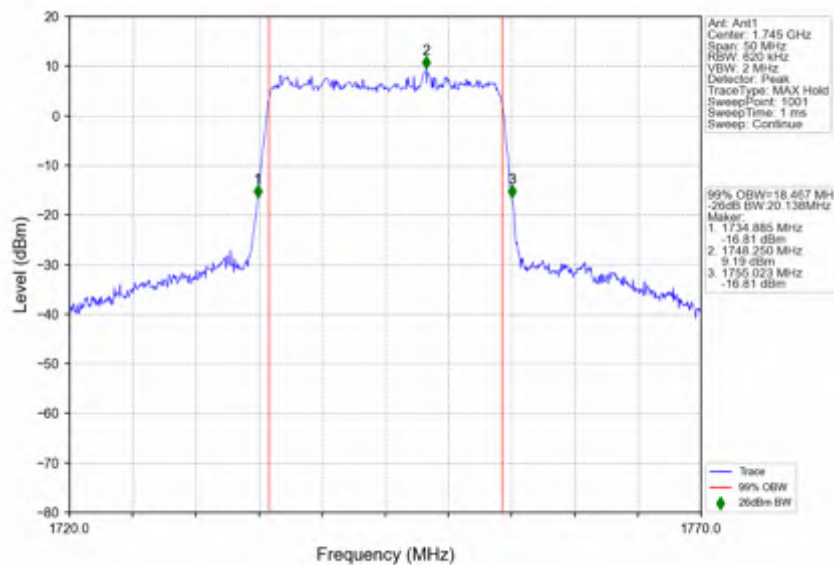
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n66	30kHz	SISO	NTNV	20MHz	CP-OFDM	256 QAM	1745MHz	Outer	Full
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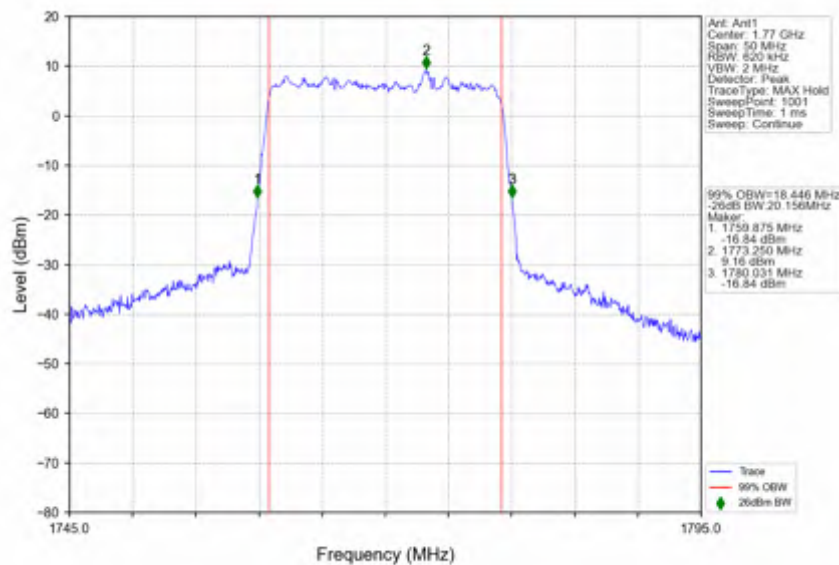


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7.11 30k_SISO_25MHz_NTNV

7.11.1 Test Result

5G NR n66 SCS=30kHz SISO 25MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1722.5	Outer_Full	23.18	25.11	/	Pass
	1745	Outer_Full	23.21	25.21	/	Pass
	1767.5	Outer_Full	23.14	25.02	/	Pass
DFT-s-OFDM QPSK	1722.5	Outer_Full	23.11	25.10	/	Pass
	1745	Outer_Full	23.16	25.16	/	Pass
	1767.5	Outer_Full	23.16	25.15	/	Pass
DFT-s-OFDM 16 QAM	1722.5	Outer_Full	23.05	25.04	/	Pass
	1745	Outer_Full	23.14	25.25	/	Pass
	1767.5	Outer_Full	23.11	25.16	/	Pass
DFT-s-OFDM 64 QAM	1722.5	Outer_Full	23.02	24.89	/	Pass
	1745	Outer_Full	23.11	25.09	/	Pass
	1767.5	Outer_Full	23.06	24.97	/	Pass
DFT-s-OFDM 256 QAM	1722.5	Outer_Full	23.00	25.14	/	Pass
	1745	Outer_Full	23.10	25.21	/	Pass
	1767.5	Outer_Full	23.04	25.11	/	Pass
CP-OFDM QPSK	1722.5	Outer_Full	23.38	25.30	/	Pass
	1745	Outer_Full	23.48	25.49	/	Pass
	1767.5	Outer_Full	23.43	25.36	/	Pass
CP-OFDM 16 QAM	1722.5	Outer_Full	23.39	25.36	/	Pass
	1745	Outer_Full	23.52	25.50	/	Pass
	1767.5	Outer_Full	23.43	25.33	/	Pass
CP-OFDM 64 QAM	1722.5	Outer_Full	23.44	25.23	/	Pass
	1745	Outer_Full	23.52	25.38	/	Pass
	1767.5	Outer_Full	23.44	25.23	/	Pass
CP-OFDM 256 QAM	1722.5	Outer_Full	23.30	25.17	/	Pass
	1745	Outer_Full	23.41	25.40	/	Pass
	1767.5	Outer_Full	23.35	25.15	/	Pass



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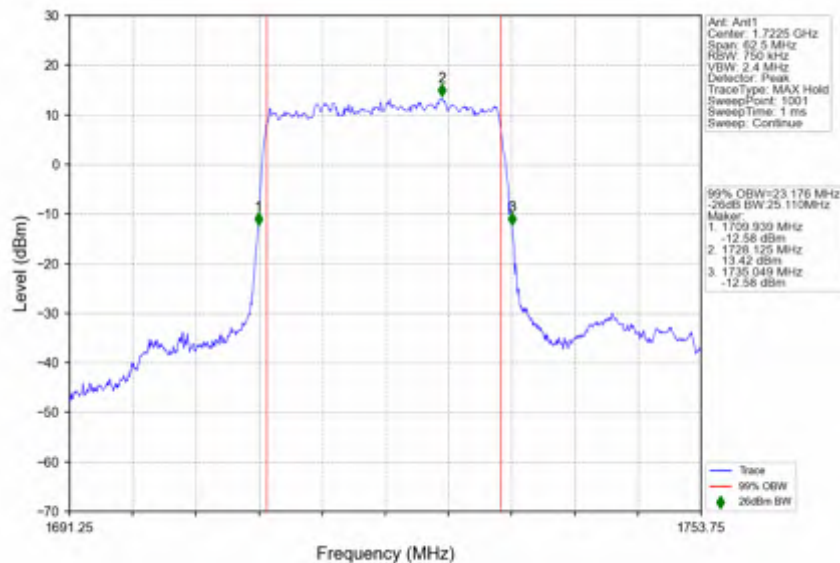
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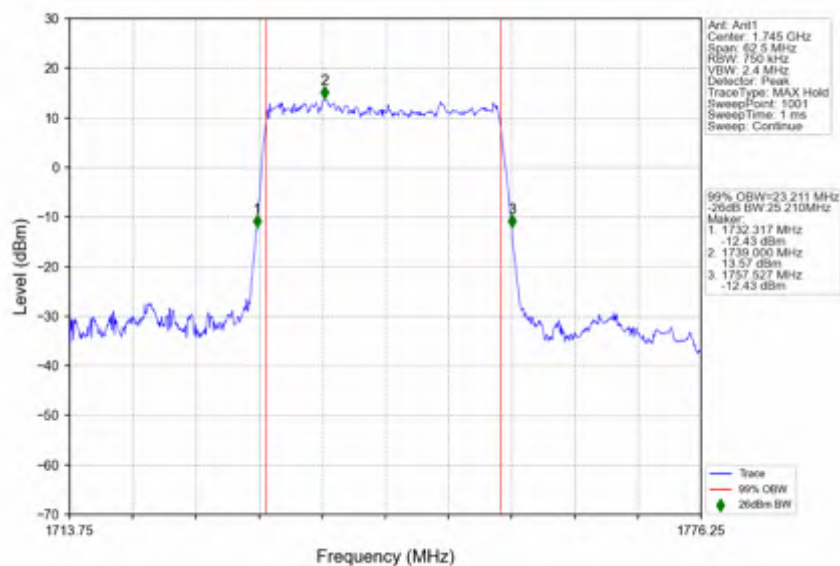
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7.11.2 Test Graph

n66_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_1722.5MHz_Outer_Full



n66_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_1745MHz_Outer_Full



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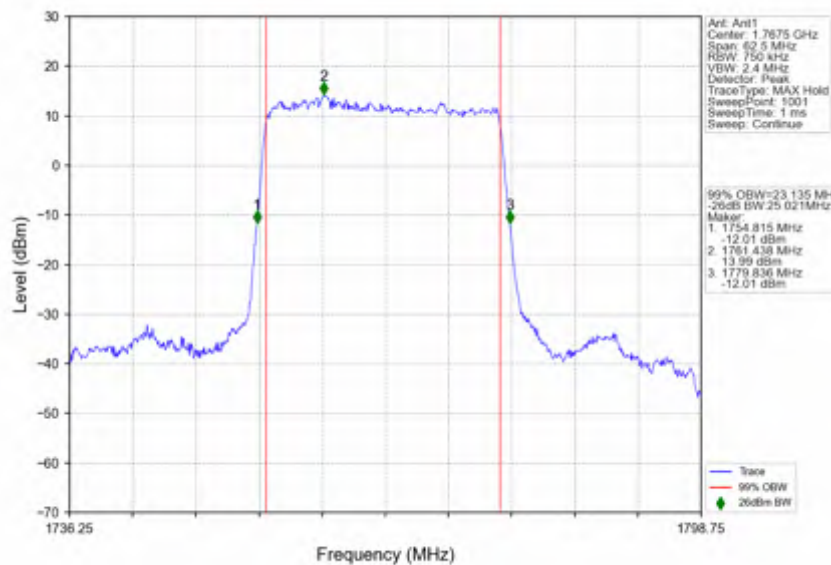
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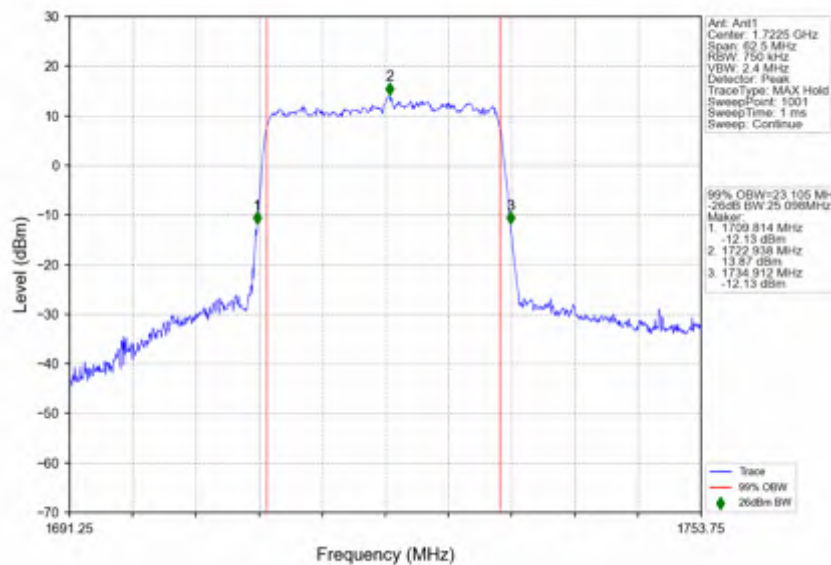
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n66_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_1767.5MHz_Outer_Full



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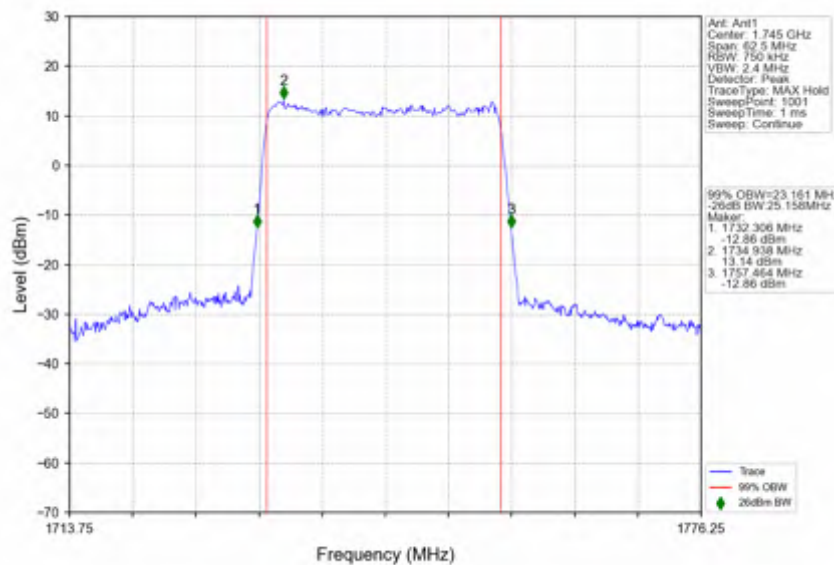


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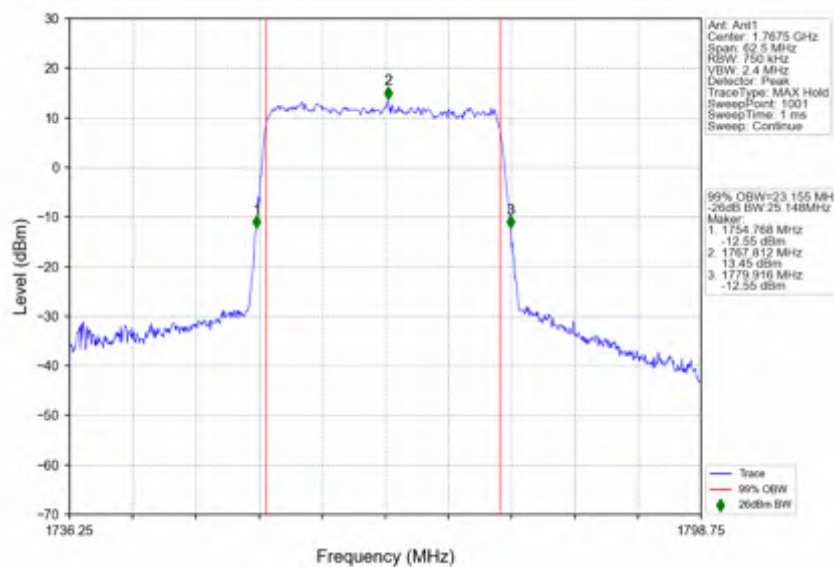
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n66_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_QPSK_1745MHz_Outer_Full



n66 30kHz SISO NTV 25MHz DFT-s-OFDM QPSK 1767.5MHz Outer Full

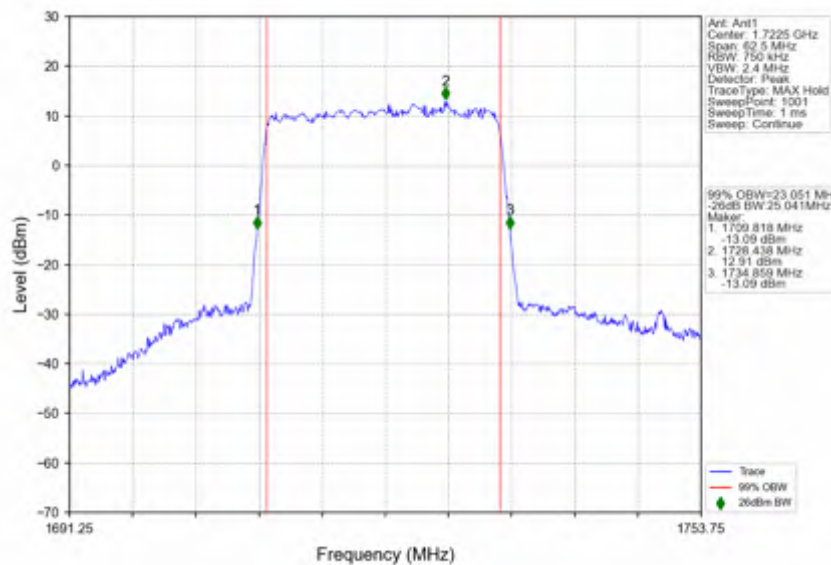


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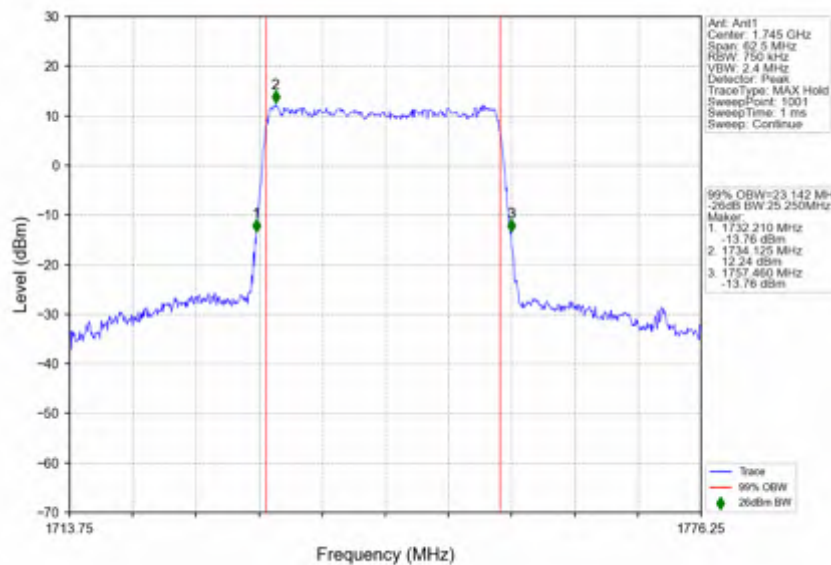
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n66_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_16_QAM_1722.5MHz_Outer_Full



n66 30kHz SISO NTNv 25MHz DFT-s-OFDM 16 QAM 1745MHz Outer Full

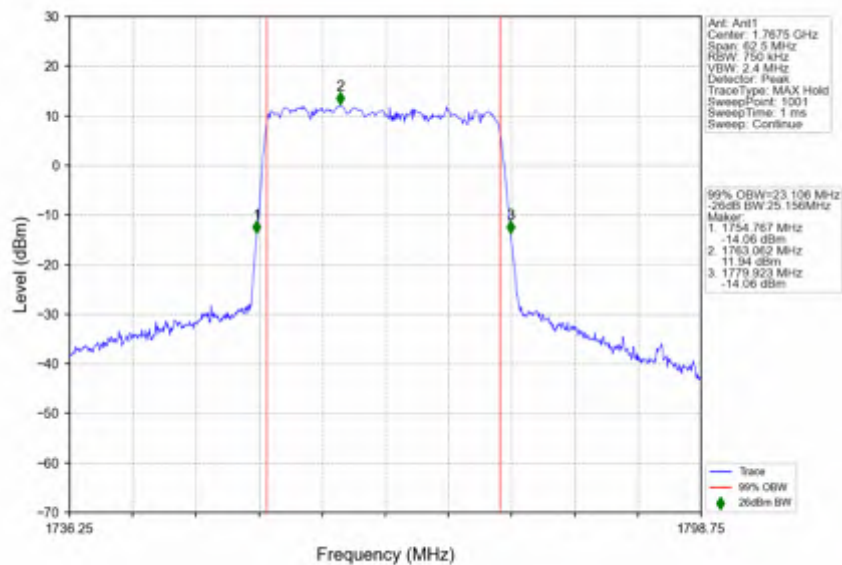


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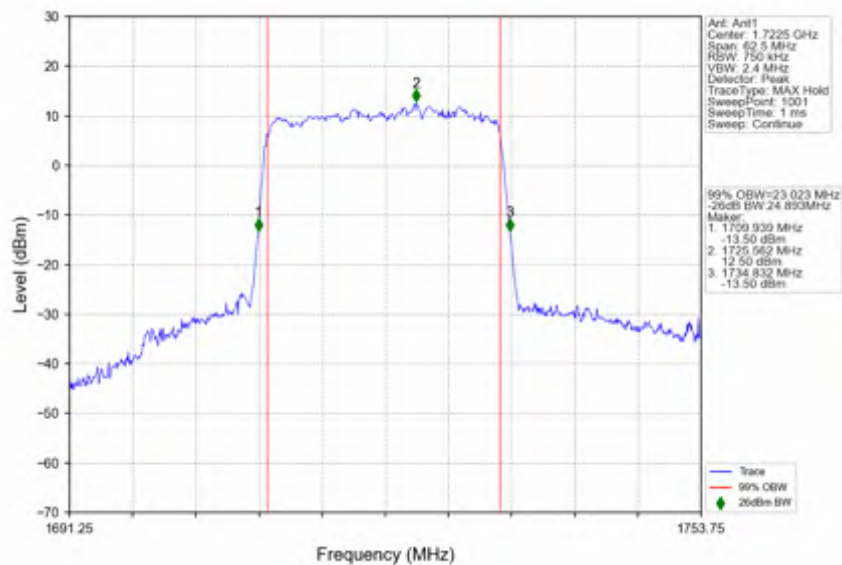
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n66_30kHz_SISO_NTV_25MHz_DFT-s-OFDM 16 QAM_1767.5MHz_Outer_Full



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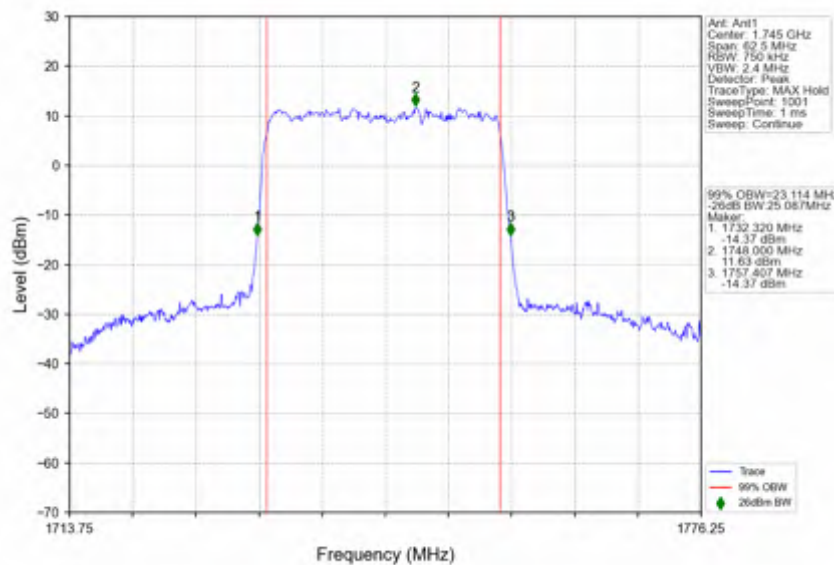
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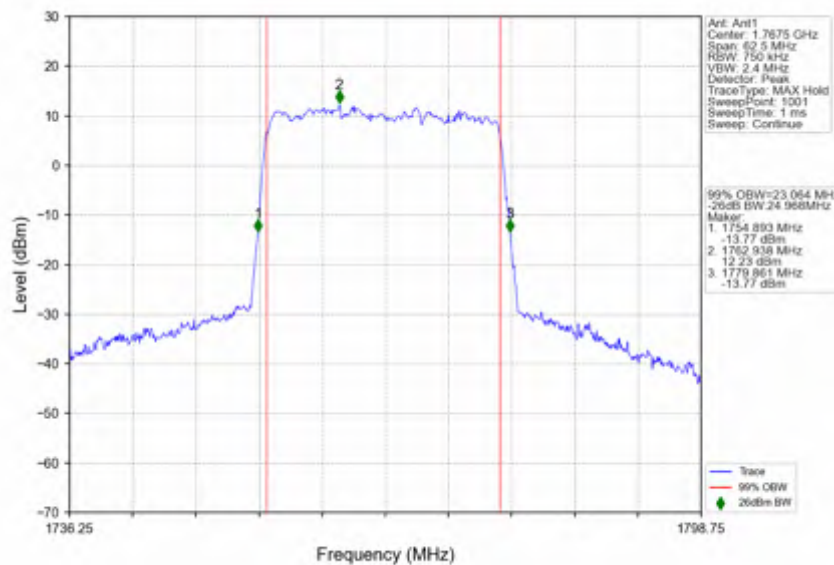
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n66_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_64_QAM_1745MHz_Outer_Full



n66_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_64_QAM_1767.5MHz_Outer_Full



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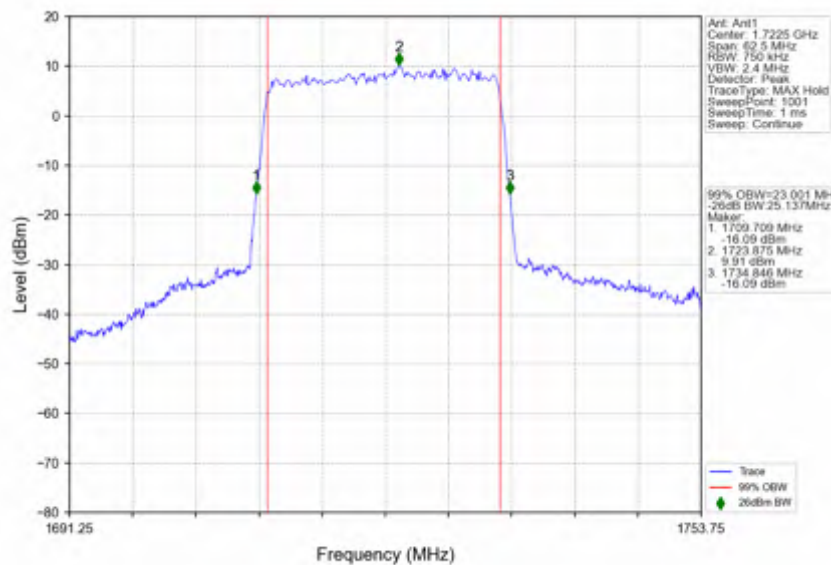
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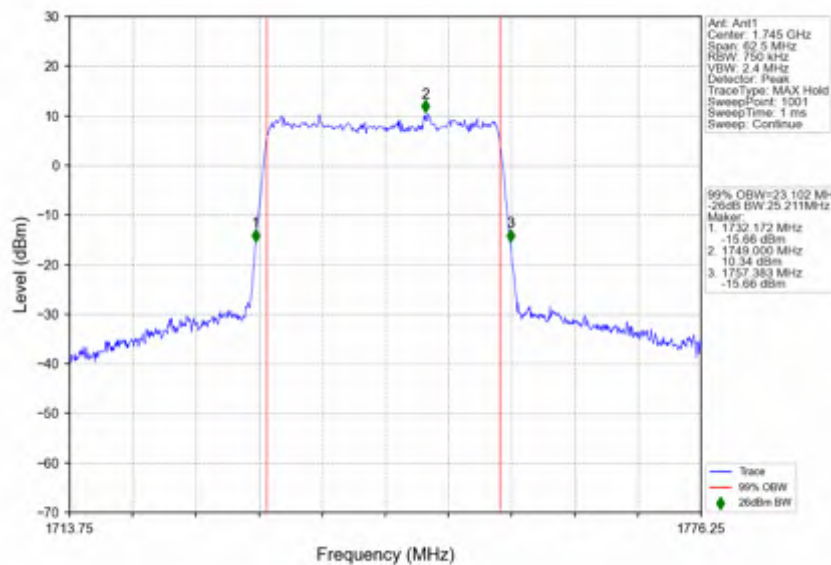
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n66_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_256_QAM_1722.5MHz_Outer_Full



n66_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_256_QAM_1745MHz_Outer_Full



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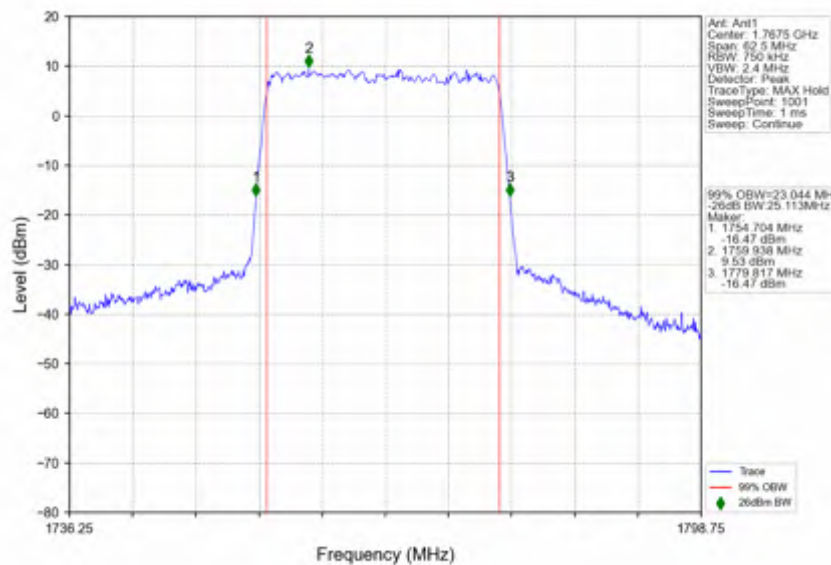
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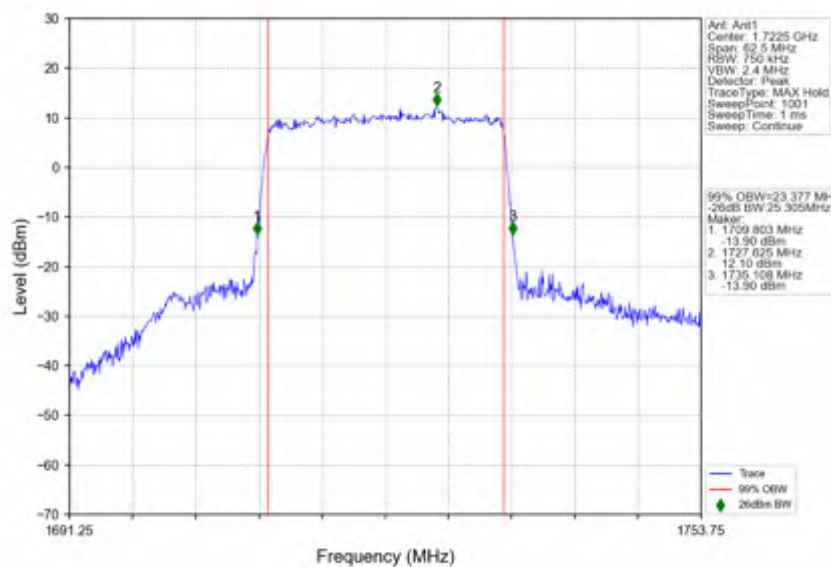
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n66	30kHz	SISO	NTNV	25MHz	DFT-s-OFDM	256	QAM	1767.5MHz	Outer	Full
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n66 30kHz SISO NTN 25MHz CP-OFDM QPSK 1722.5MHz Outer Full

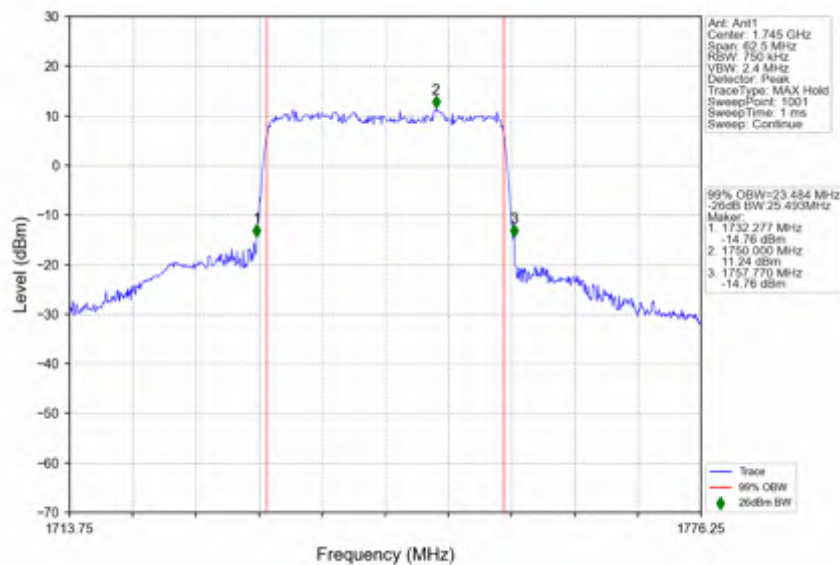


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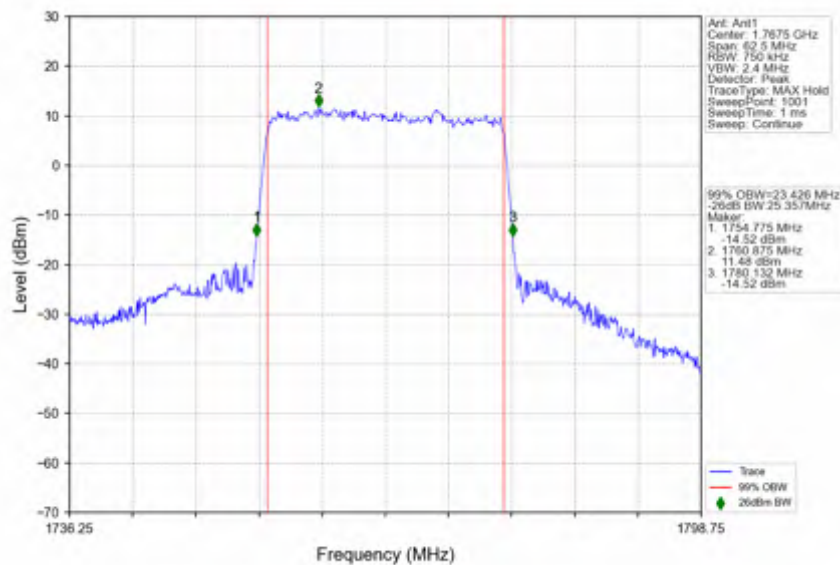
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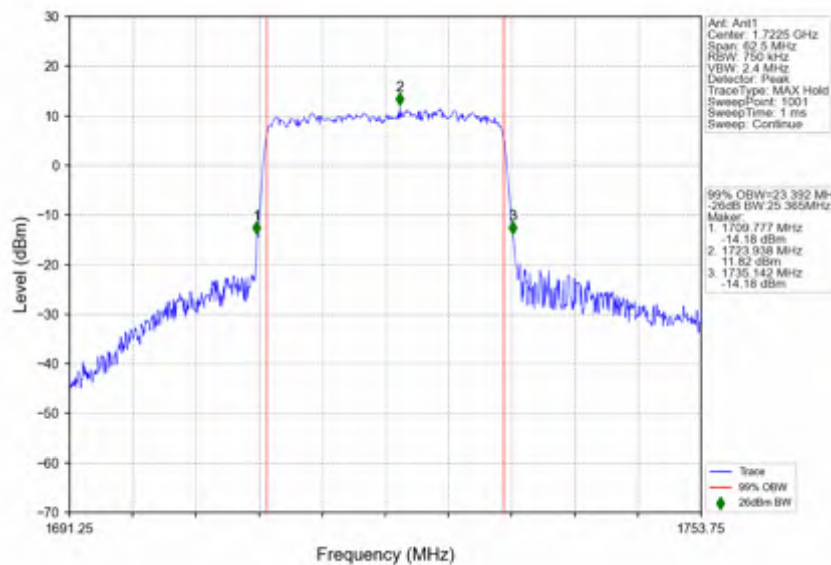
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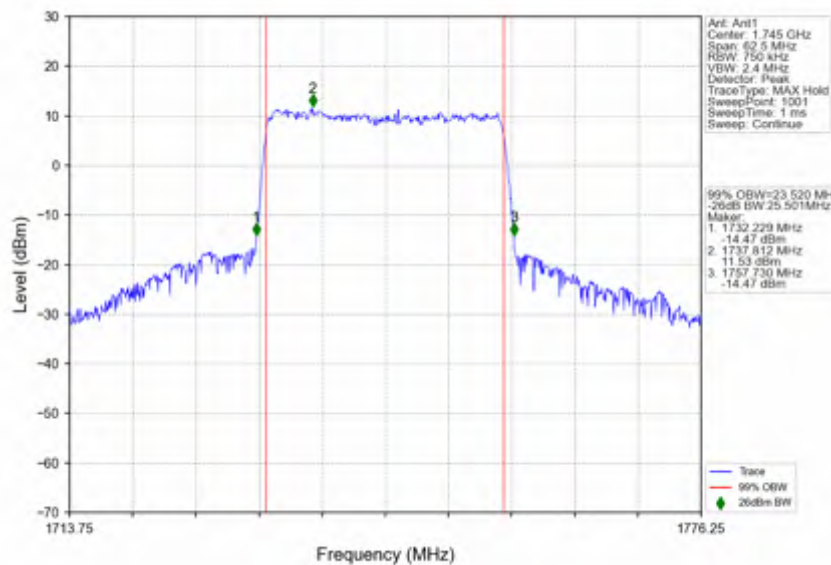
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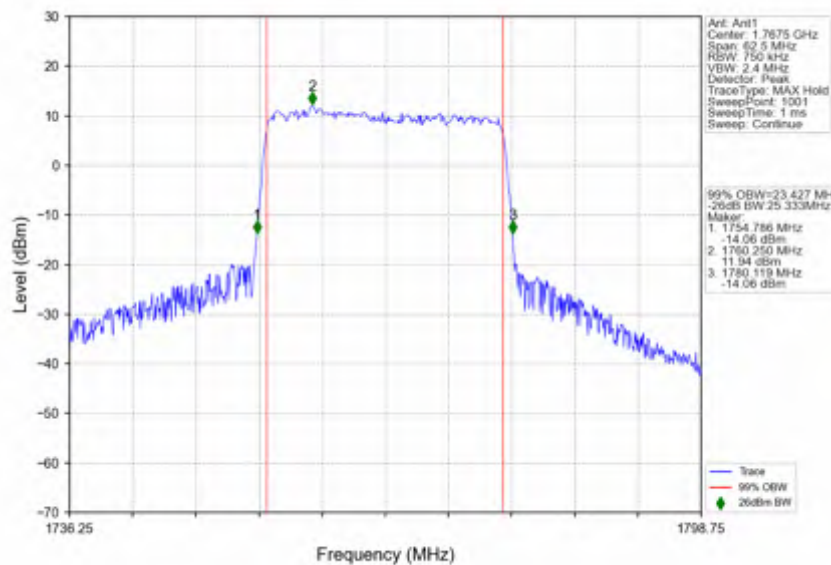
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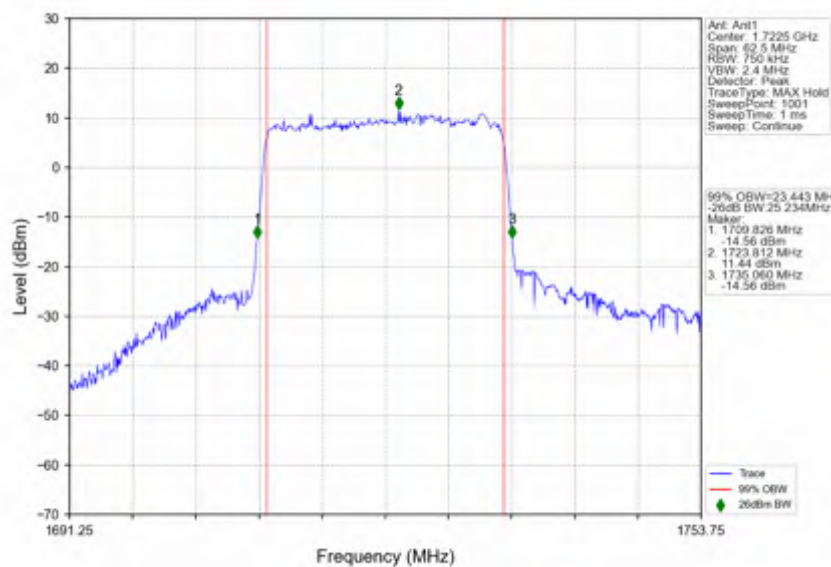
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n66_30kHz_SISO_NTNV_25MHz_CP-OFDM_16_QAM_1767.5MHz_Outer_Full



n66 30kHz SISO NTN 25MHz CP-OFDM 64 QAM 1722.5MHz Outer Full

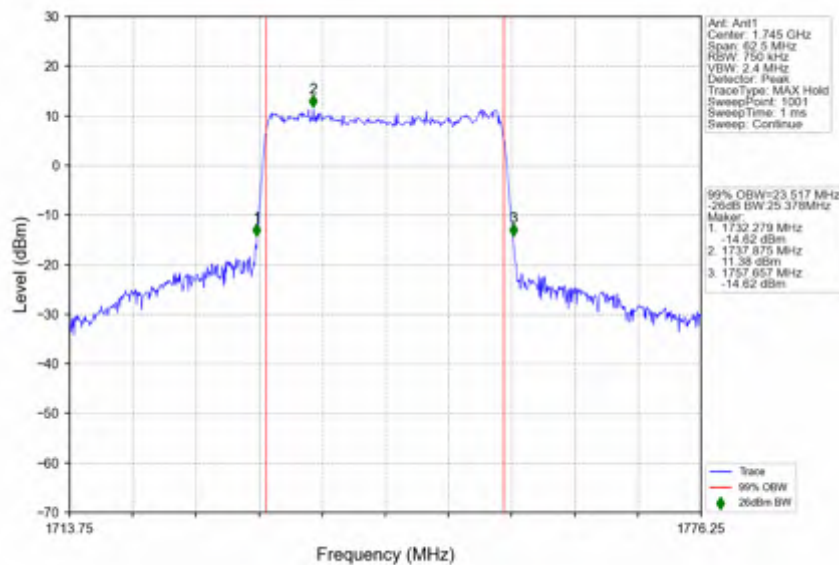


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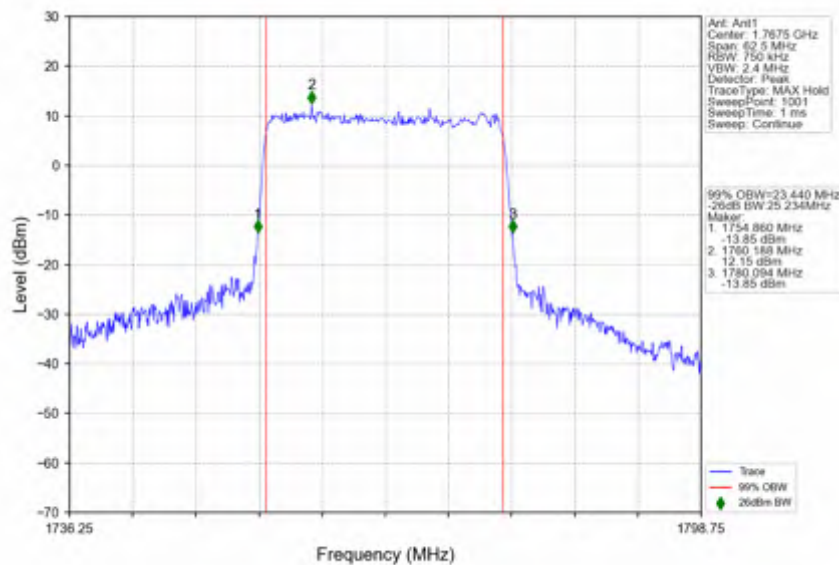
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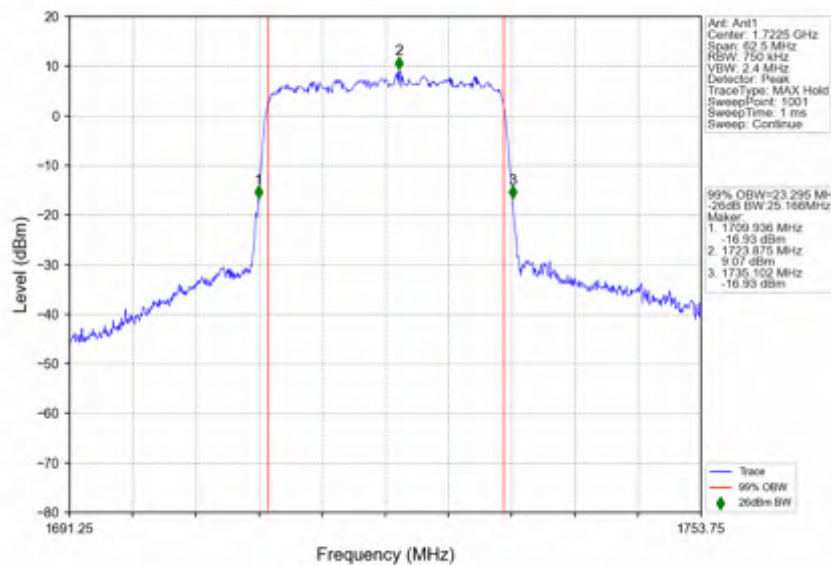
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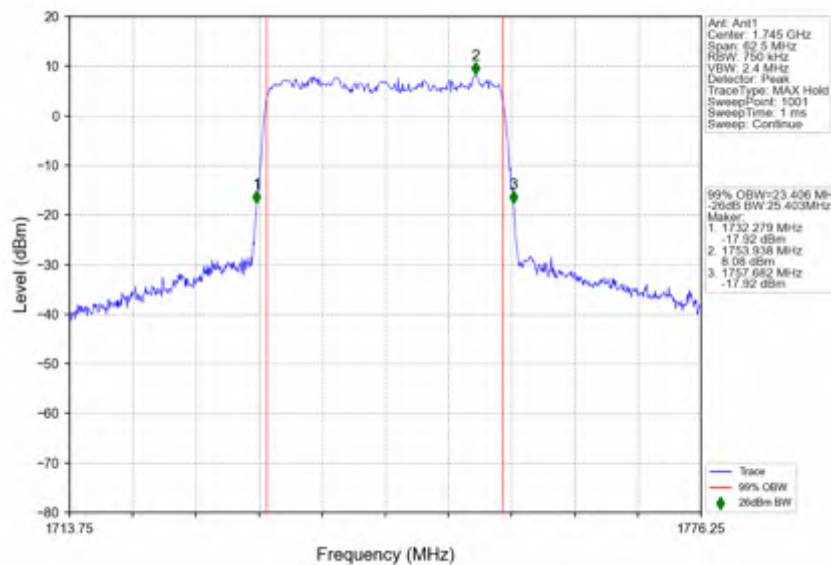
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n66 30kHz SISO NTN 25MHz CP-OFDM 256 QAM 1722.5MHz Outer Full



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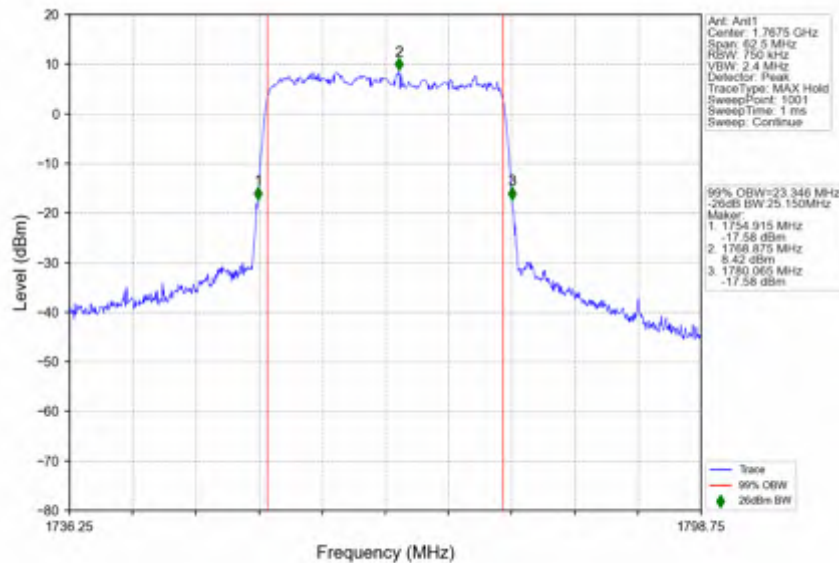


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n66_30kHz_SISO_NTNV_25MHz_CP-OFDM_256_QAM_1767.5MHz_Outer_Full



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7.12 30k_SISO_30MHz_NTNV

7.12.1 Test Result

5G NR n66 SCS=30kHz SISO 30MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1725	Outer_Full	27.06	29.60	/	Pass
	1745	Outer_Full	27.28	29.80	/	Pass
	1765	Outer_Full	27.13	29.60	/	Pass
DFT-s-OFDM QPSK	1725	Outer_Full	26.95	29.63	/	Pass
	1745	Outer_Full	27.16	29.58	/	Pass
	1765	Outer_Full	27.01	29.53	/	Pass
DFT-s-OFDM 16 QAM	1725	Outer_Full	26.96	29.27	/	Pass
	1745	Outer_Full	27.22	29.56	/	Pass
	1765	Outer_Full	27.04	29.37	/	Pass
DFT-s-OFDM 64 QAM	1725	Outer_Full	26.93	29.68	/	Pass
	1745	Outer_Full	27.16	29.59	/	Pass
	1765	Outer_Full	27.02	29.60	/	Pass
DFT-s-OFDM 256 QAM	1725	Outer_Full	26.91	29.42	/	Pass
	1745	Outer_Full	27.20	29.50	/	Pass
	1765	Outer_Full	27.04	29.48	/	Pass
CP-OFDM QPSK	1725	Outer_Full	27.95	30.42	/	Pass
	1745	Outer_Full	28.20	30.52	/	Pass
	1765	Outer_Full	28.01	30.38	/	Pass
CP-OFDM 16 QAM	1725	Outer_Full	28.14	30.29	/	Pass
	1745	Outer_Full	28.25	30.71	/	Pass
	1765	Outer_Full	28.05	30.34	/	Pass
CP-OFDM 64 QAM	1725	Outer_Full	27.92	30.50	/	Pass
	1745	Outer_Full	28.18	30.65	/	Pass
	1765	Outer_Full	28.00	30.53	/	Pass
CP-OFDM 256 QAM	1725	Outer_Full	27.95	30.40	/	Pass
	1745	Outer_Full	28.18	30.65	/	Pass
	1765	Outer_Full	28.02	30.58	/	Pass



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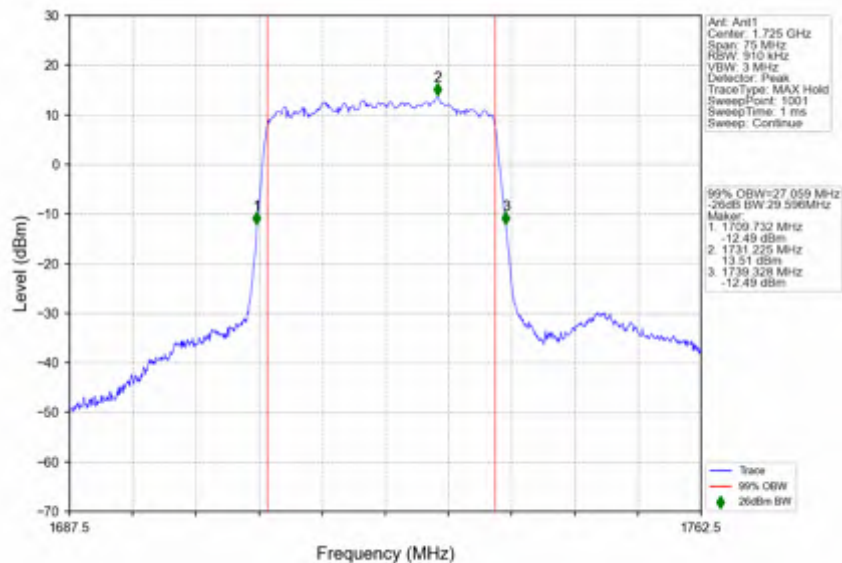
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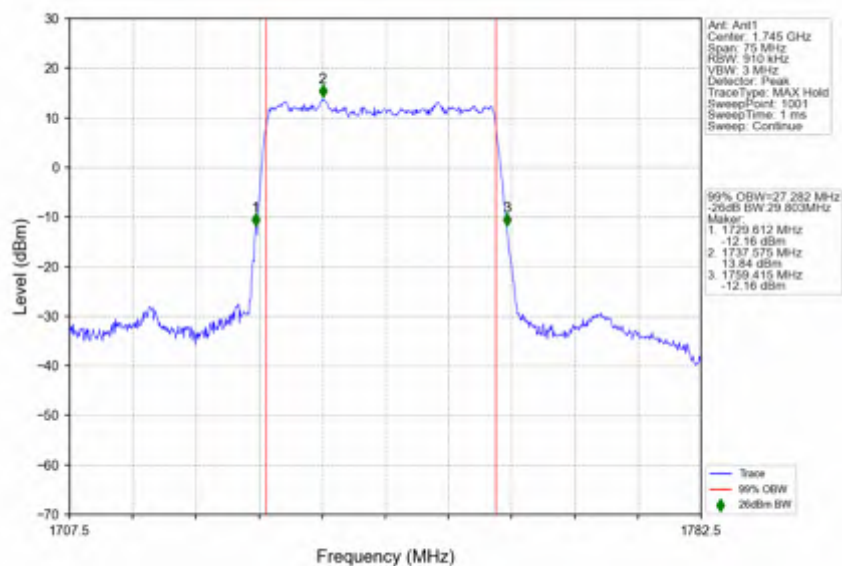
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7.12.2 Test Graph

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n66_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_PI/2_BPSK_1745MHz_Outer_Full



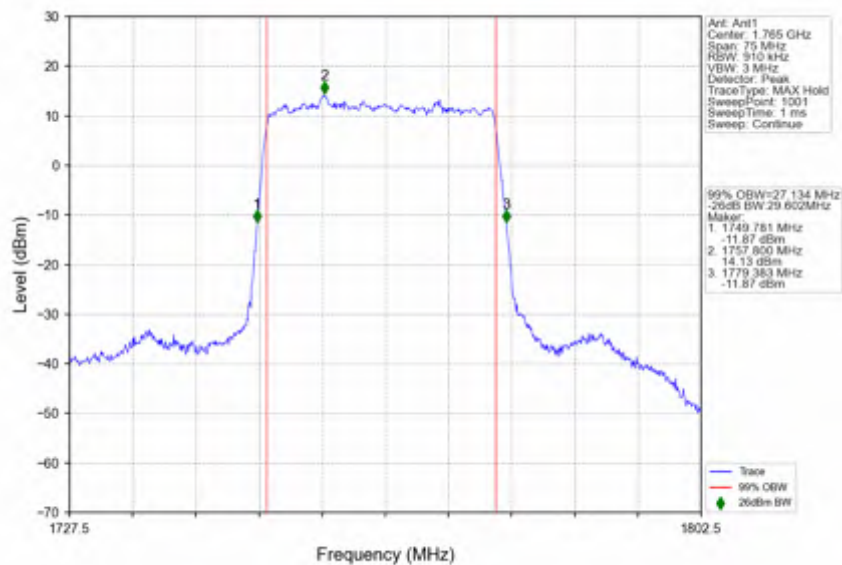
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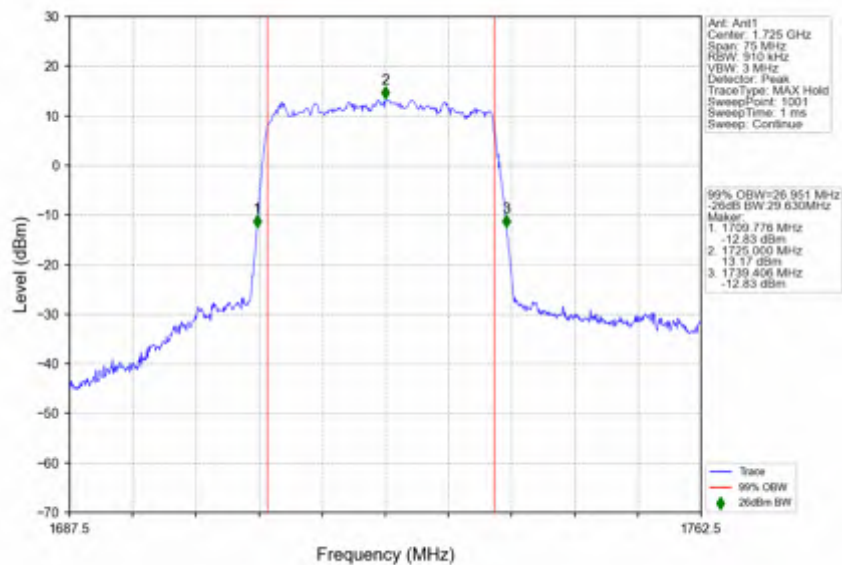
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n66_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_QPSK_1725MHz_Outer_Full

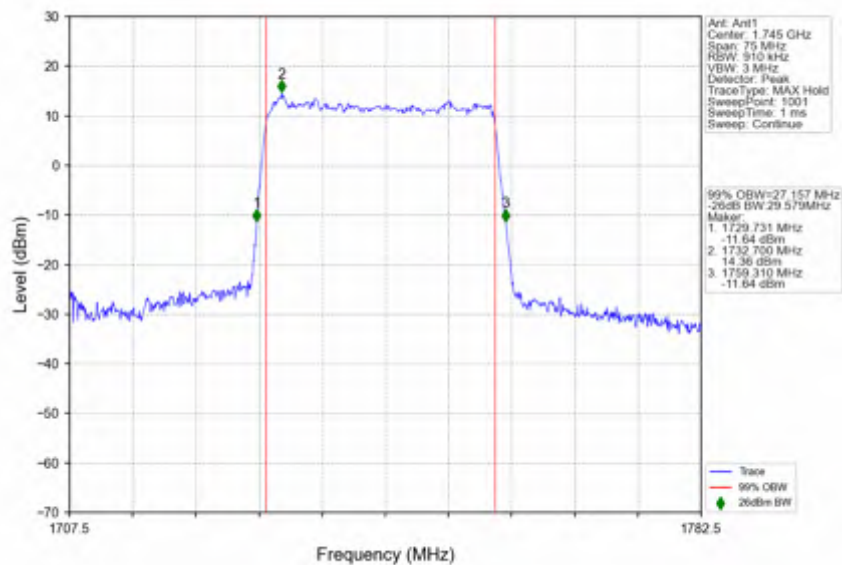


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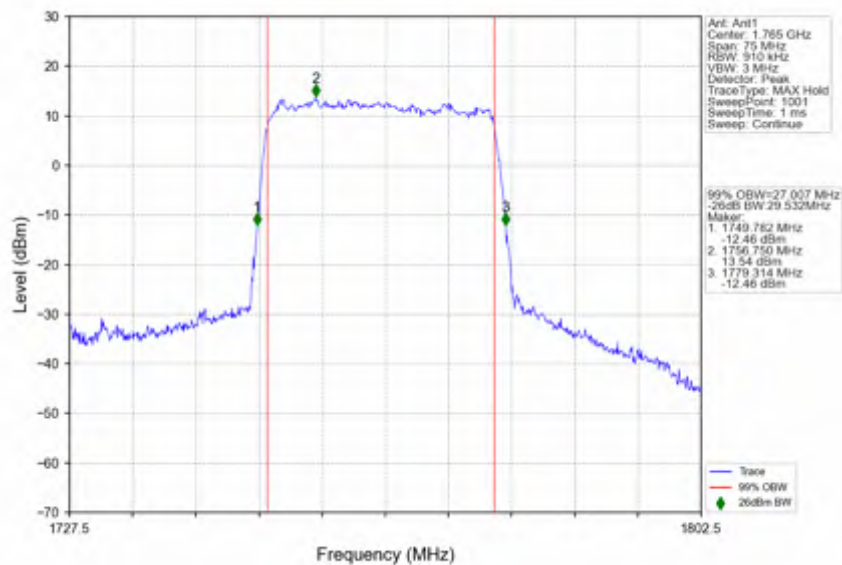
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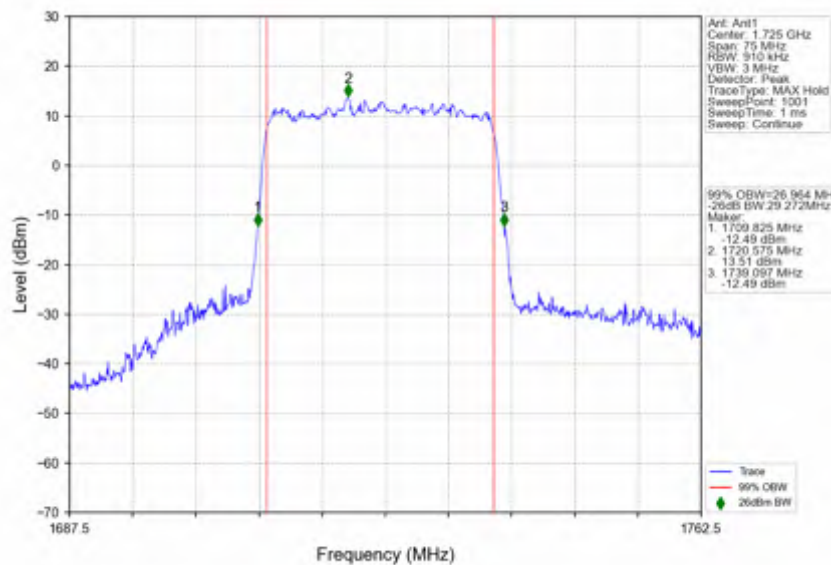
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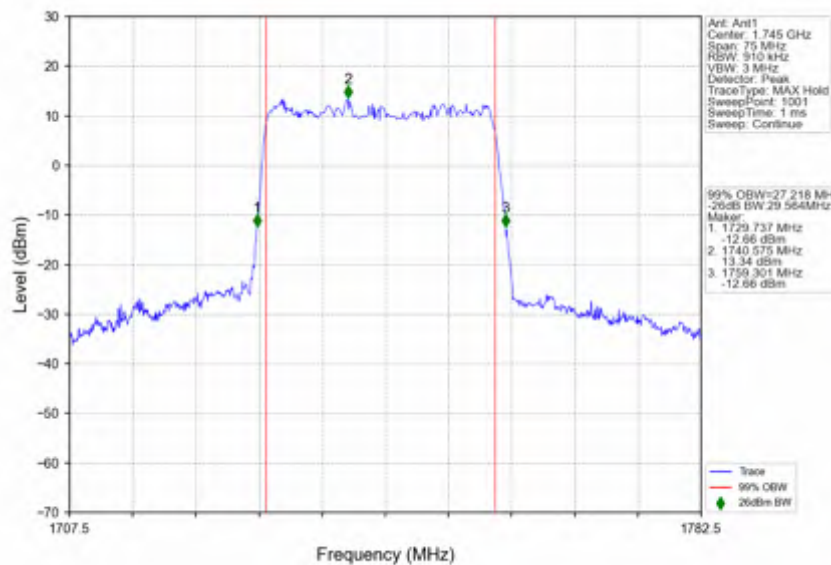
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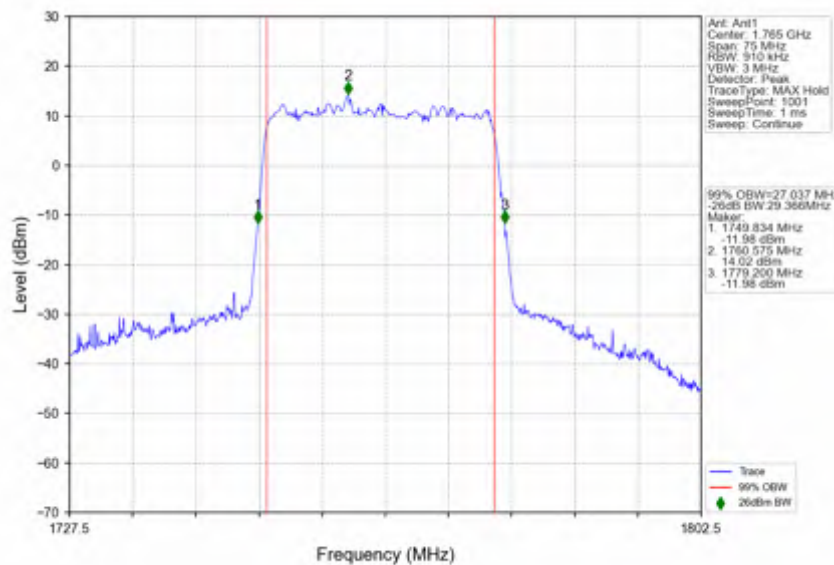


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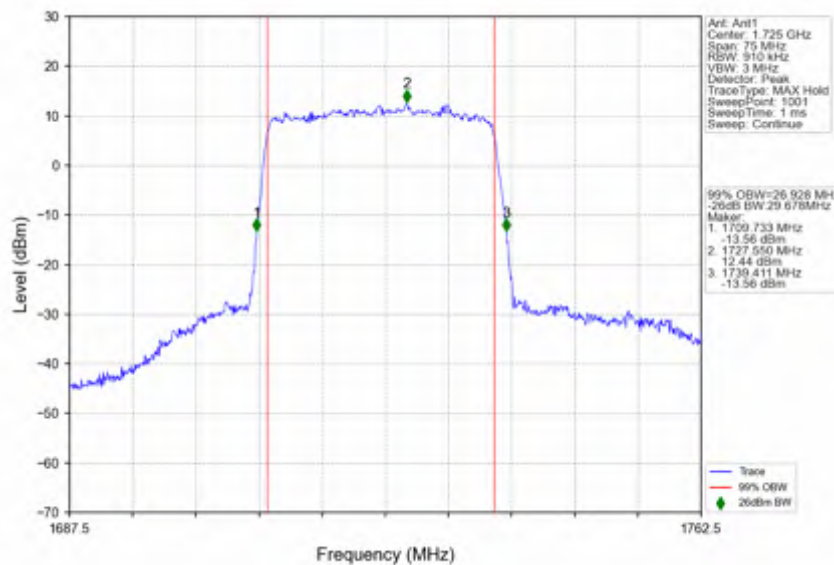
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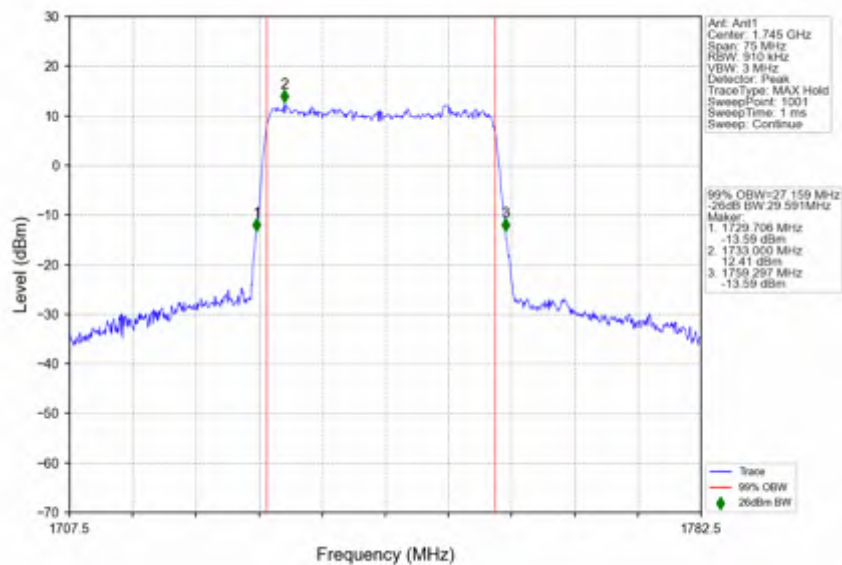
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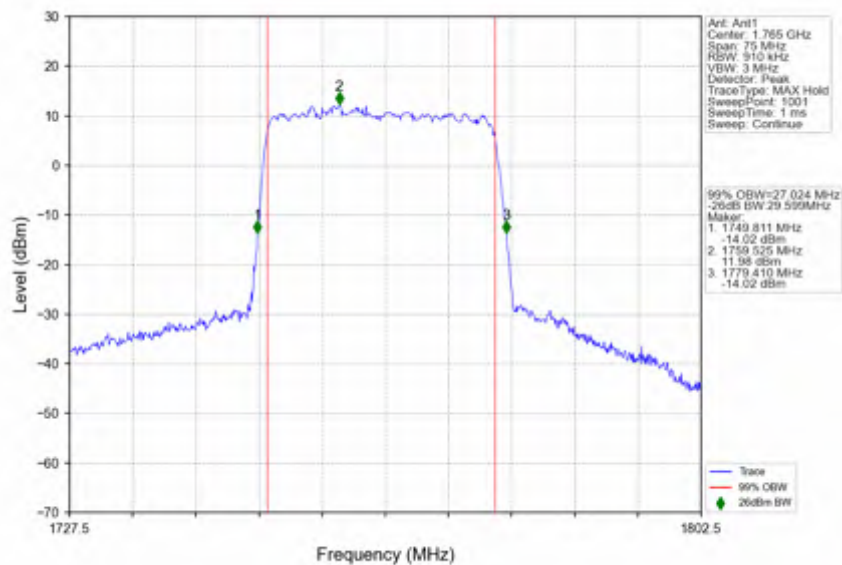
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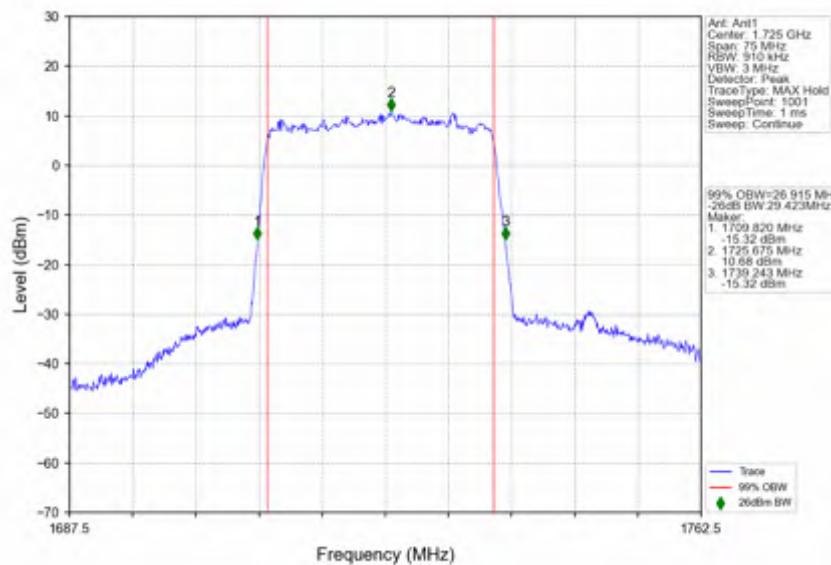


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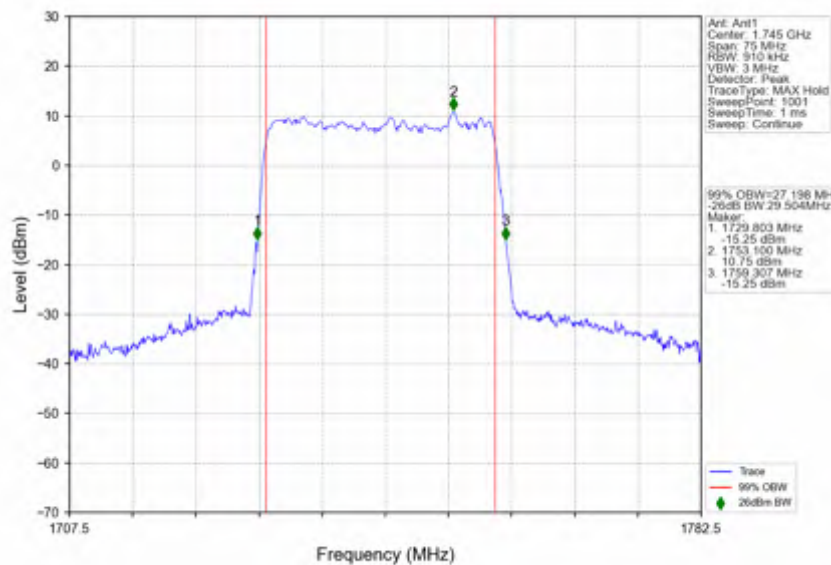
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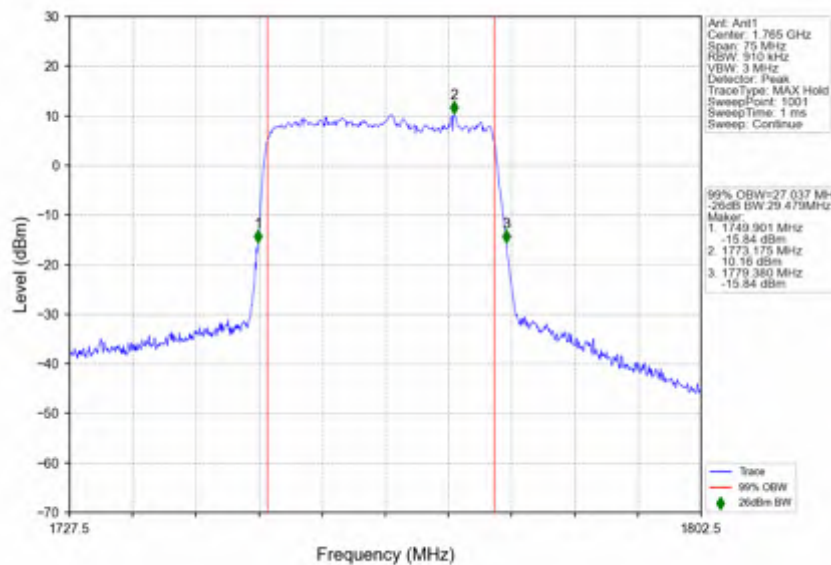
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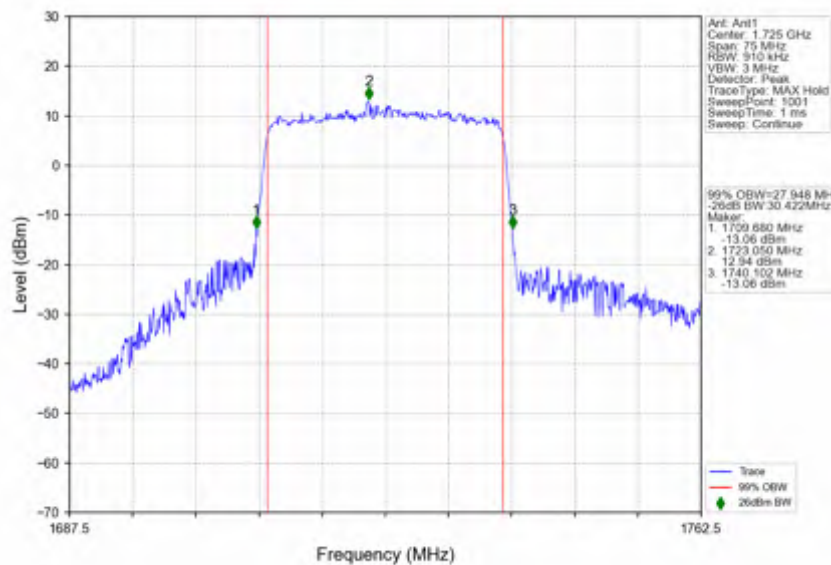
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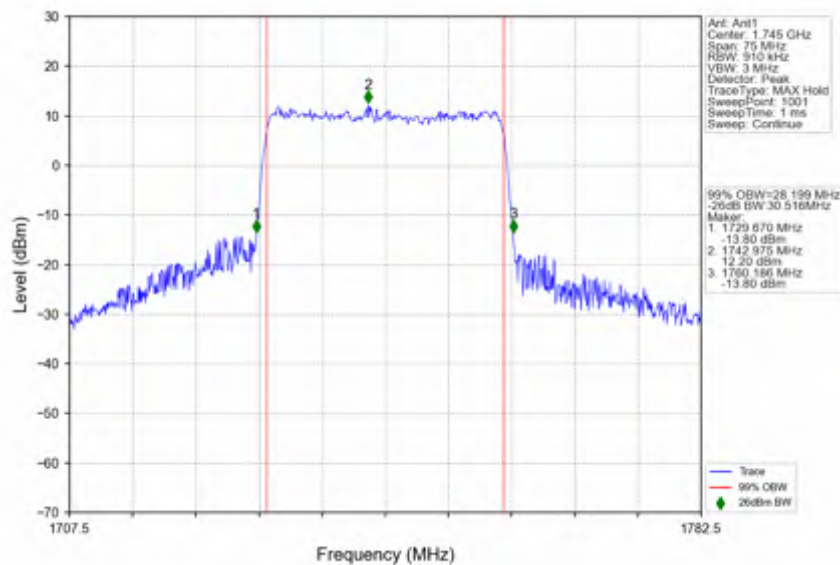
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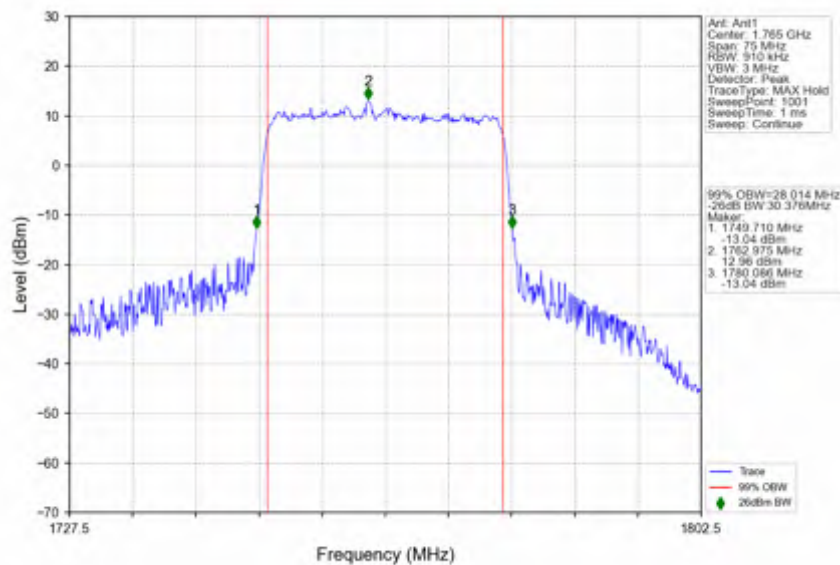
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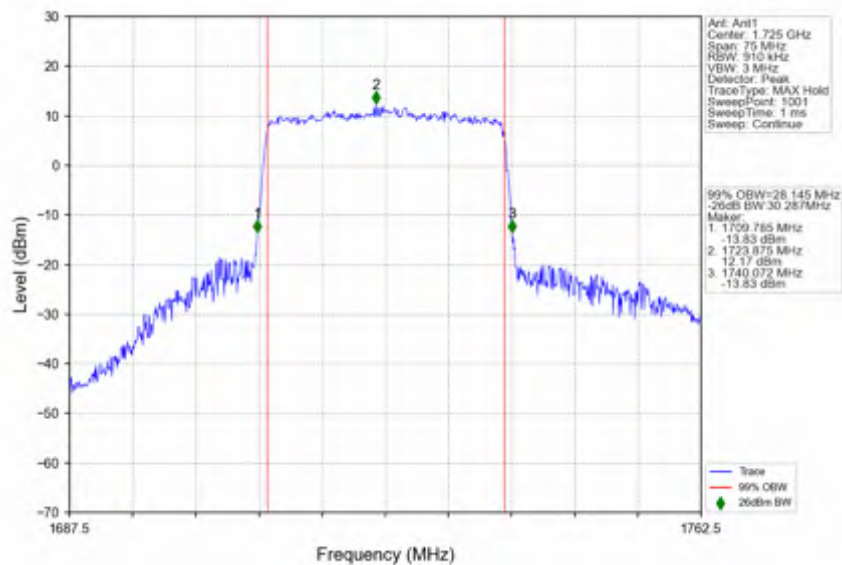


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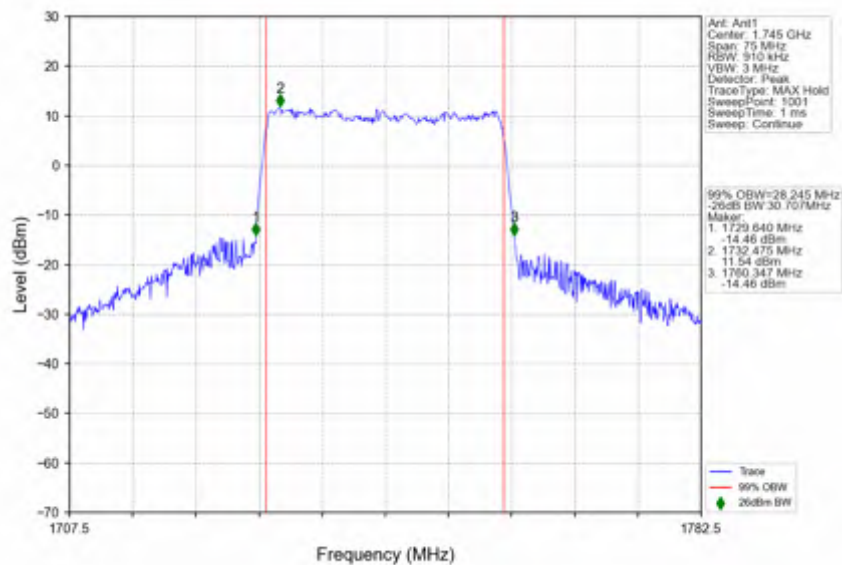
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n66_30kHz_SISO_NTNV_30MHz_CP-OFDM_16_QAM_1725MHz_Outer_Full



n66_30kHz_SISO_NTNV_30MHz_CP-OFDM_16_QAM_1745MHz_Outer_Full

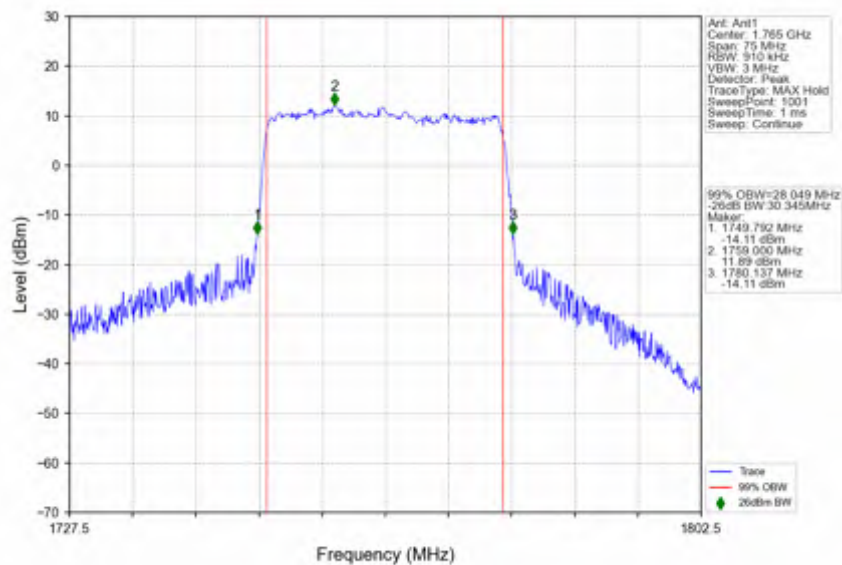


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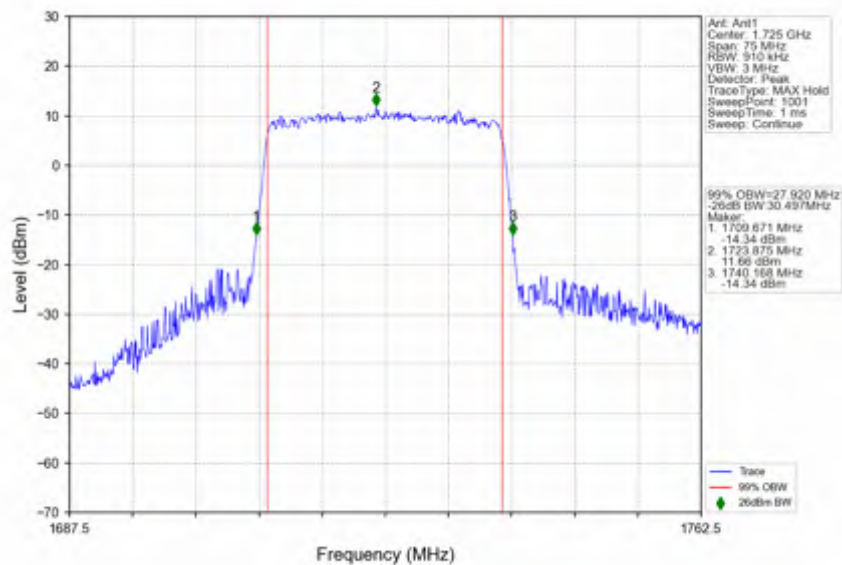
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n66_30kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_1765MHz_Outer_Full



n66_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_1725MHz_Outer_Full



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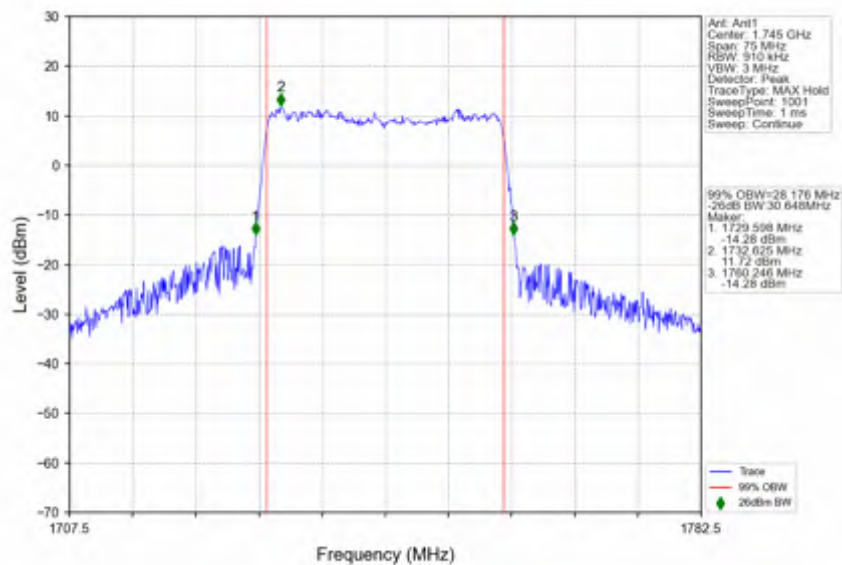
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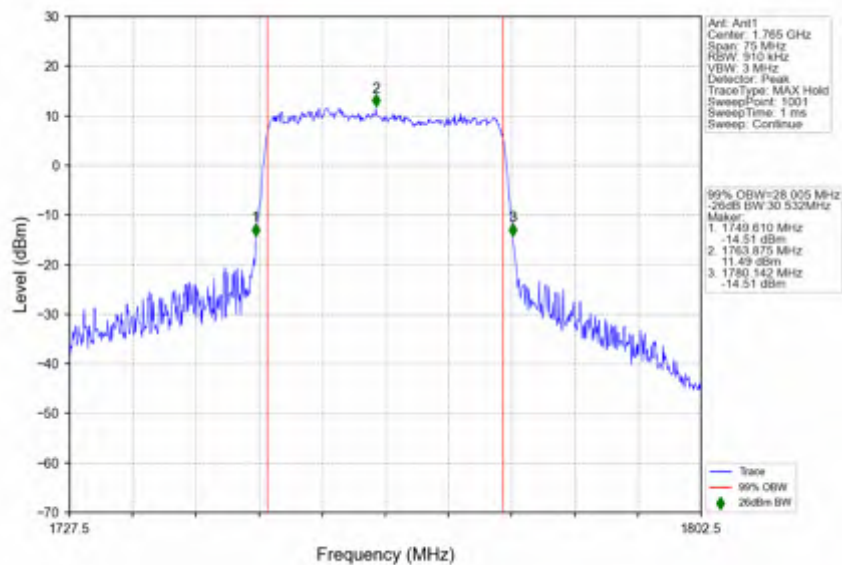
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n66_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_1765MHz_Outer_Full



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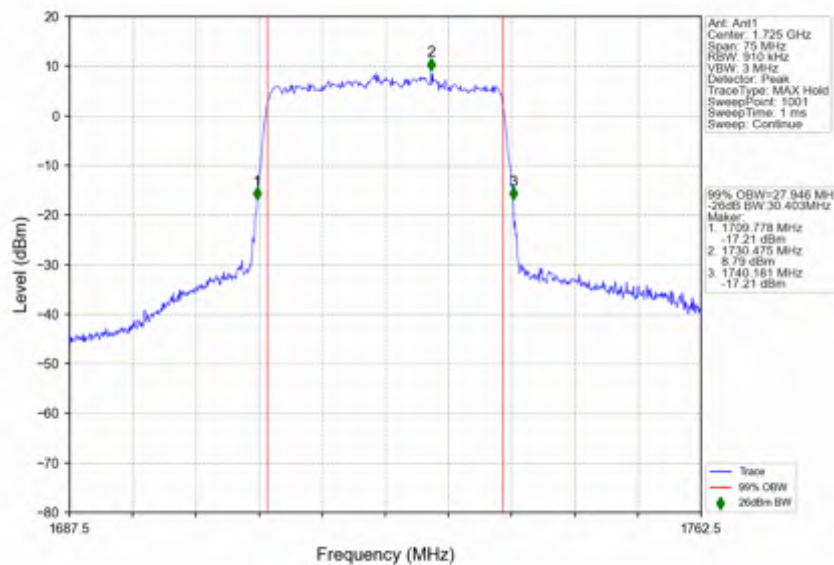
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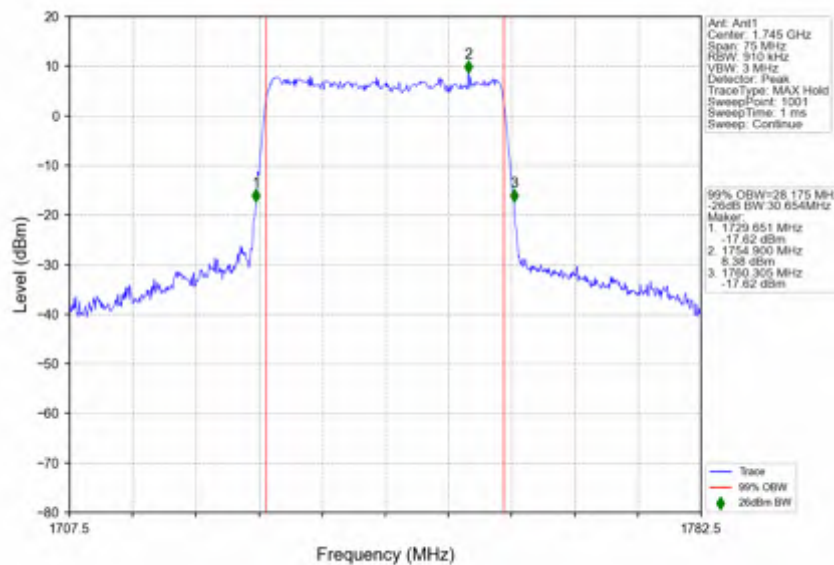
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n66_30kHz_SISO_NTNV_30MHz_CP-OFDM_256_QAM_1725MHz_Outer_Full



n66_30kHz_SISO_NTNV_30MHz_CP-OFDM_256_QAM_1745MHz_Outer_Full

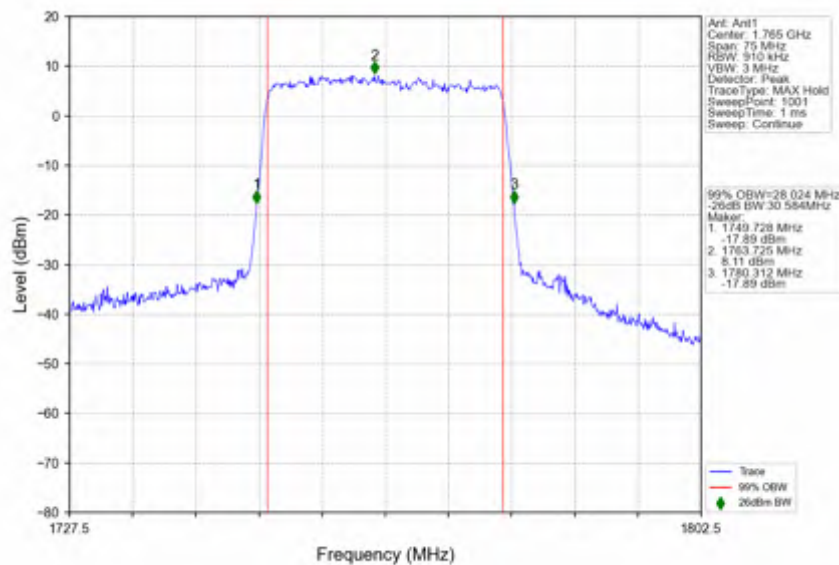


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n66_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_1765MHz_Outer_Full



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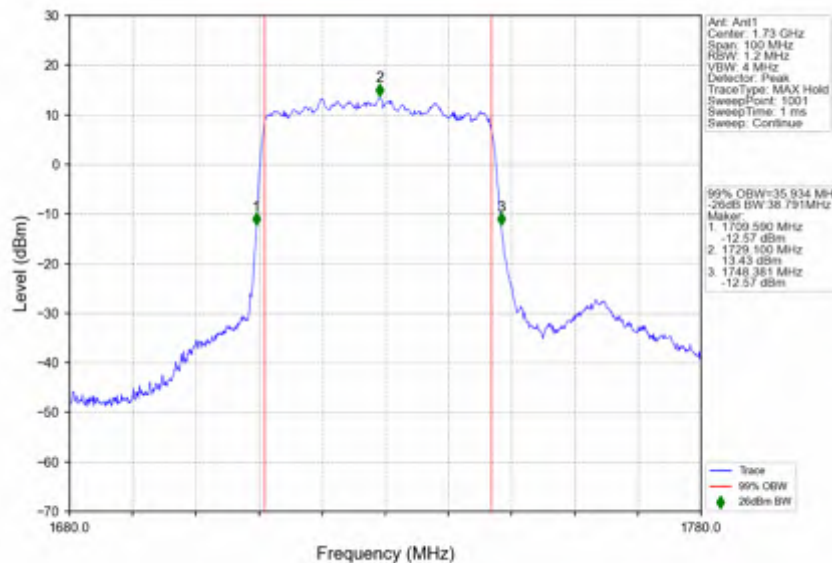
7.13 30k_SISO_40MHz_NTNV

7.13.1 Test Result

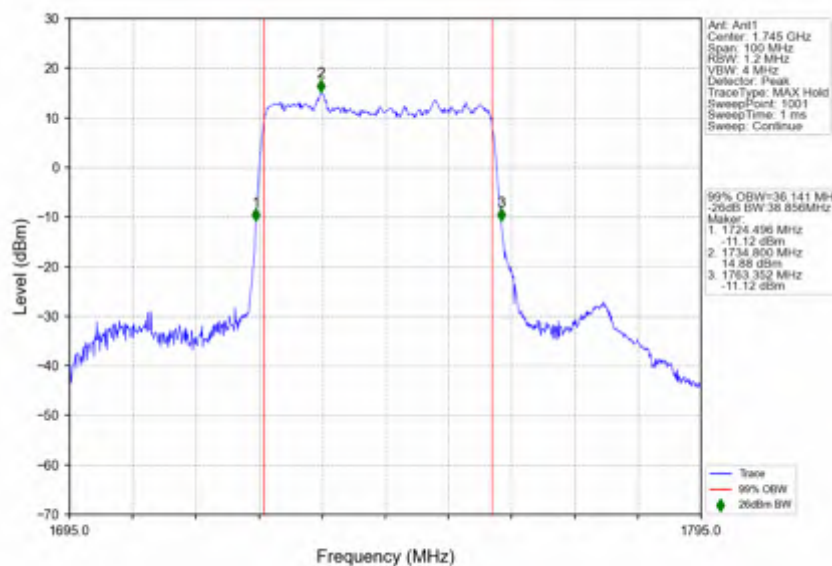
5G NR n66 SCS=30kHz SISO 40MHz NTNV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1730	Outer_Full	35.93	38.79	/	Pass
	1745	Outer_Full	36.14	38.86	/	Pass
	1760	Outer_Full	36.01	38.93	/	Pass
DFT-s-OFDM QPSK	1730	Outer_Full	35.84	38.68	/	Pass
	1745	Outer_Full	36.16	38.95	/	Pass
	1760	Outer_Full	35.98	38.90	/	Pass
DFT-s-OFDM 16 QAM	1730	Outer_Full	36.16	38.88	/	Pass
	1745	Outer_Full	36.45	39.01	/	Pass
	1760	Outer_Full	36.30	38.97	/	Pass
DFT-s-OFDM 64 QAM	1730	Outer_Full	35.91	38.81	/	Pass
	1745	Outer_Full	36.20	39.07	/	Pass
	1760	Outer_Full	36.03	38.90	/	Pass
DFT-s-OFDM 256 QAM	1730	Outer_Full	36.03	38.93	/	Pass
	1745	Outer_Full	36.16	38.93	/	Pass
	1760	Outer_Full	36.11	38.98	/	Pass
CP-OFDM QPSK	1730	Outer_Full	37.93	40.77	/	Pass
	1745	Outer_Full	38.21	40.95	/	Pass
	1760	Outer_Full	38.01	41.15	/	Pass
CP-OFDM 16 QAM	1730	Outer_Full	38.19	40.80	/	Pass
	1745	Outer_Full	38.46	40.80	/	Pass
	1760	Outer_Full	38.31	40.92	/	Pass
CP-OFDM 64 QAM	1730	Outer_Full	38.02	40.72	/	Pass
	1745	Outer_Full	38.30	40.85	/	Pass
	1760	Outer_Full	38.23	40.91	/	Pass
CP-OFDM 256 QAM	1730	Outer_Full	37.87	40.65	/	Pass
	1745	Outer_Full	38.11	40.92	/	Pass
	1760	Outer_Full	37.96	40.81	/	Pass

7.13.2 Test Graph

n66_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_PI/2_BPSK_1730MHz_Outer_Full



n66_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_PI/2_BPSK_1745MHz_Outer_Full



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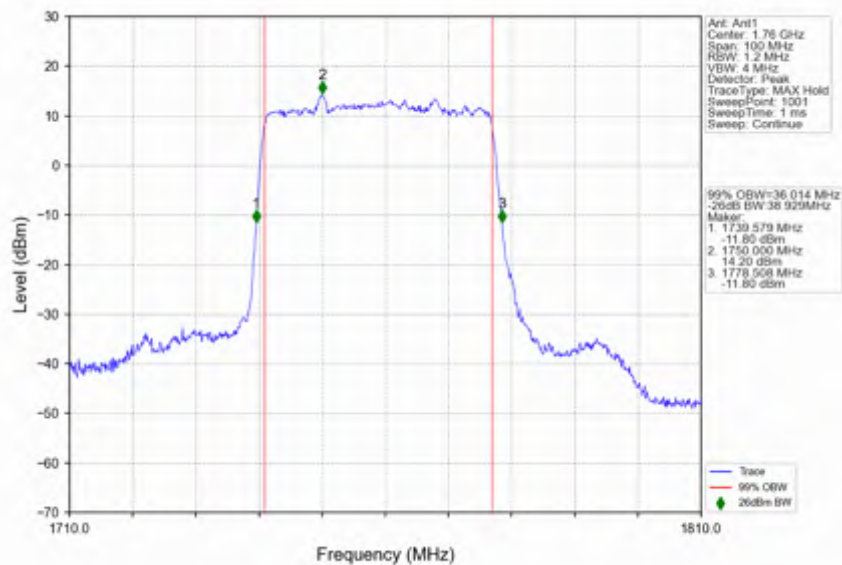
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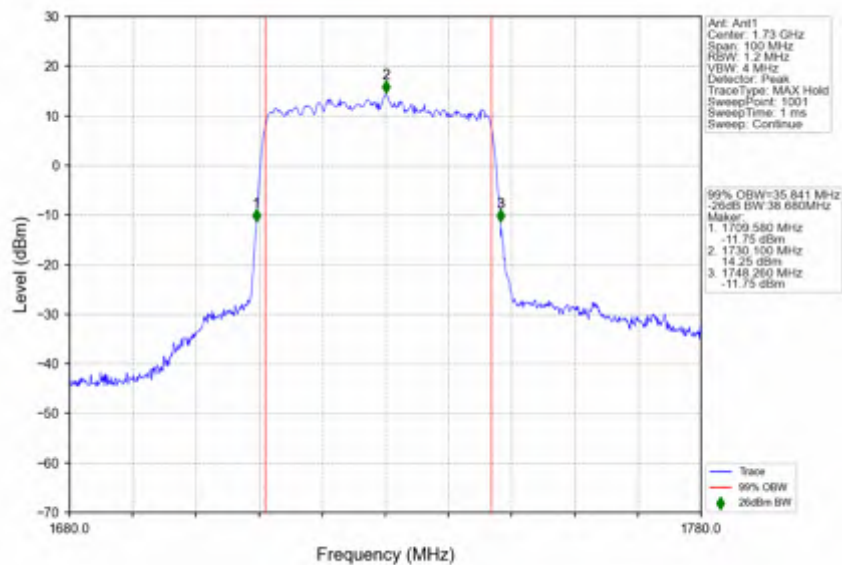
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n66_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_PI/2_BPSK_1760MHz_Outer_Full



n66_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_QPSK_1730MHz_Outer_Full



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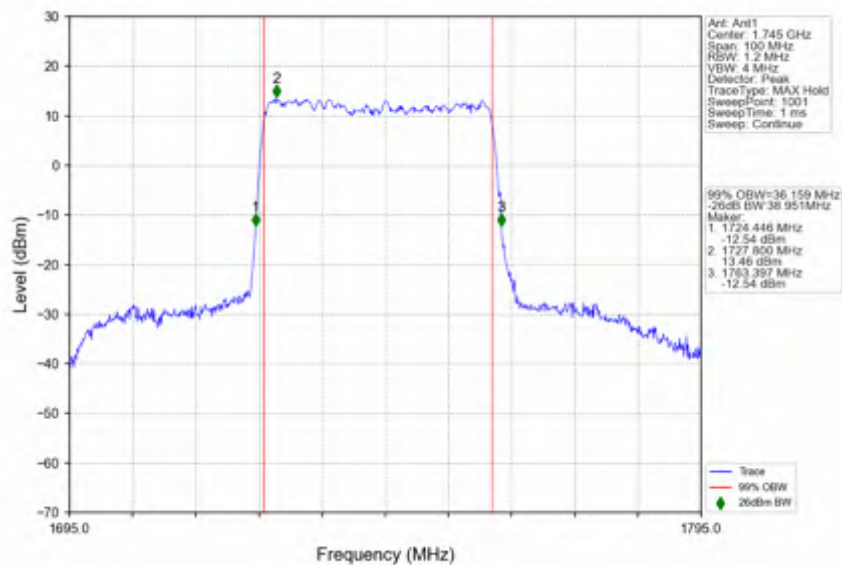
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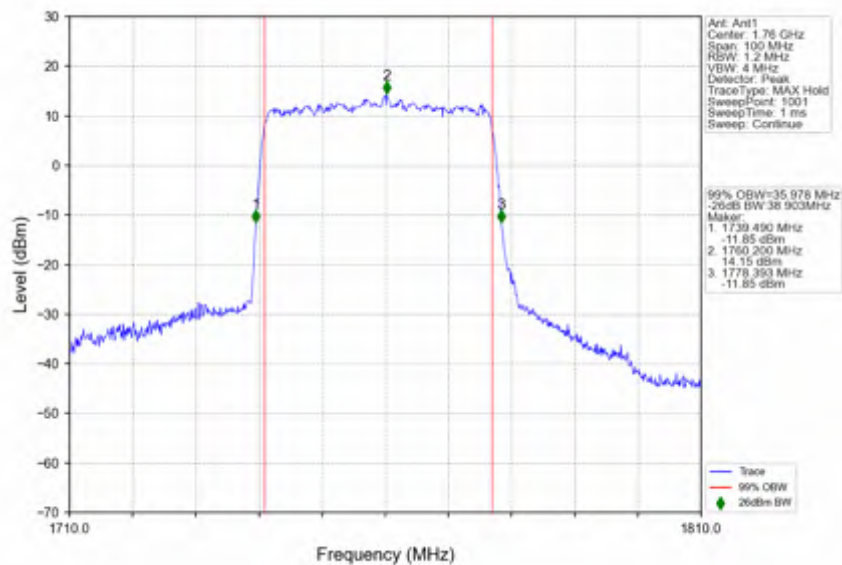
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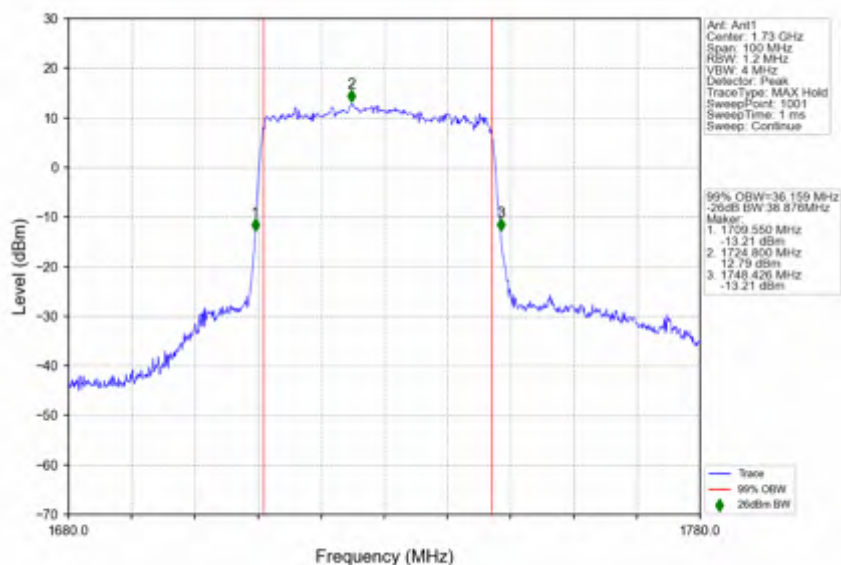
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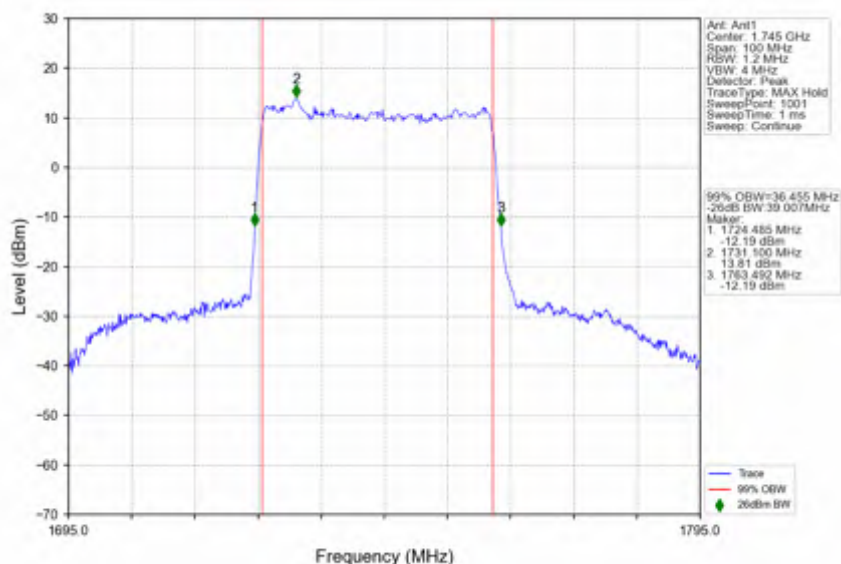
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n66 30kHz SISO NTNV 40MHz DFT-s-OFDM 16 QAM 1730MHz Outer Full



n66	30kHz	SISO	NTNV	40MHz	DFT-s-OFDM	16 QAM	1745MHz	Outer	Full
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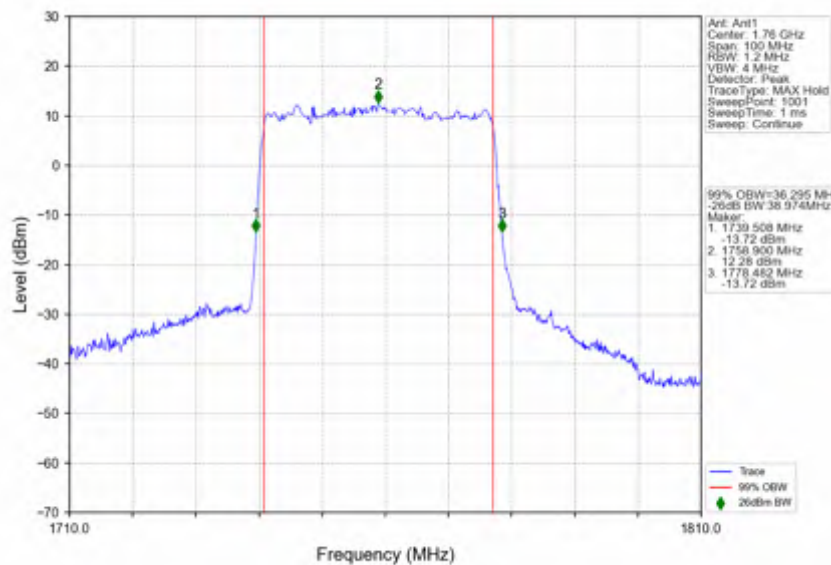


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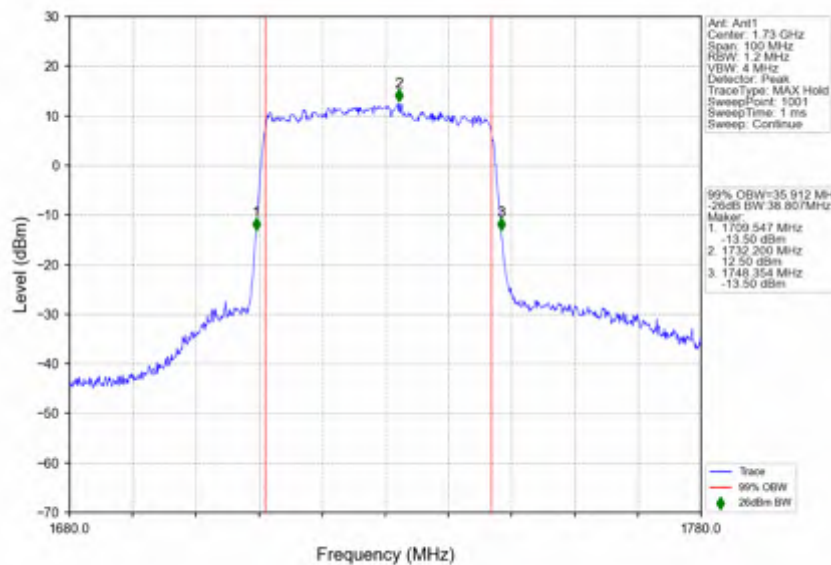
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n66 30kHz SISO NTNV 40MHz DFT-s-OFDM 16 QAM 1760MHz Outer Full



n66 30kHz SISO NTV 40MHz DFT-s-OFDM 64 QAM 1730MHz Outer Full

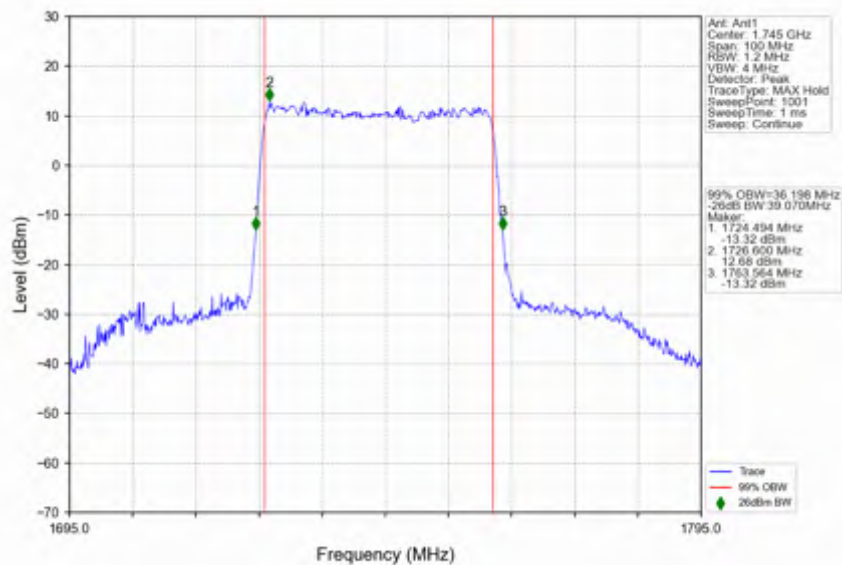


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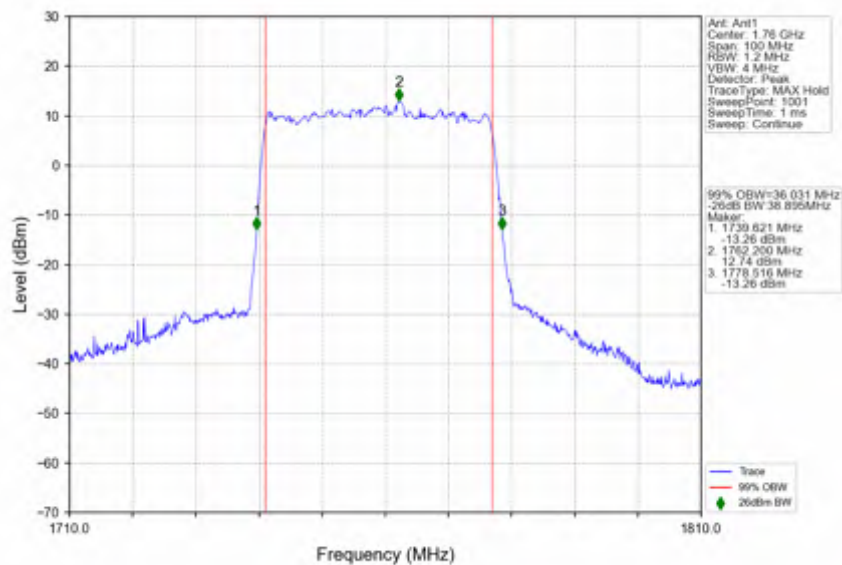
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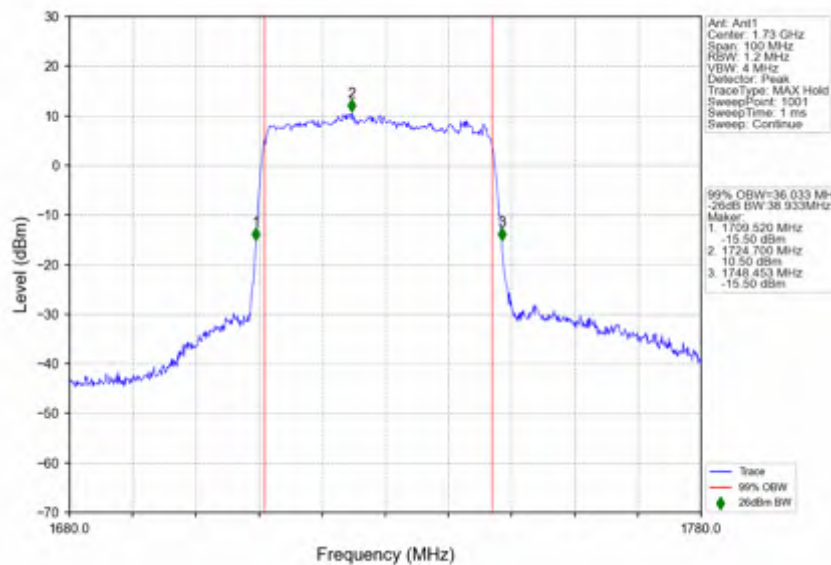
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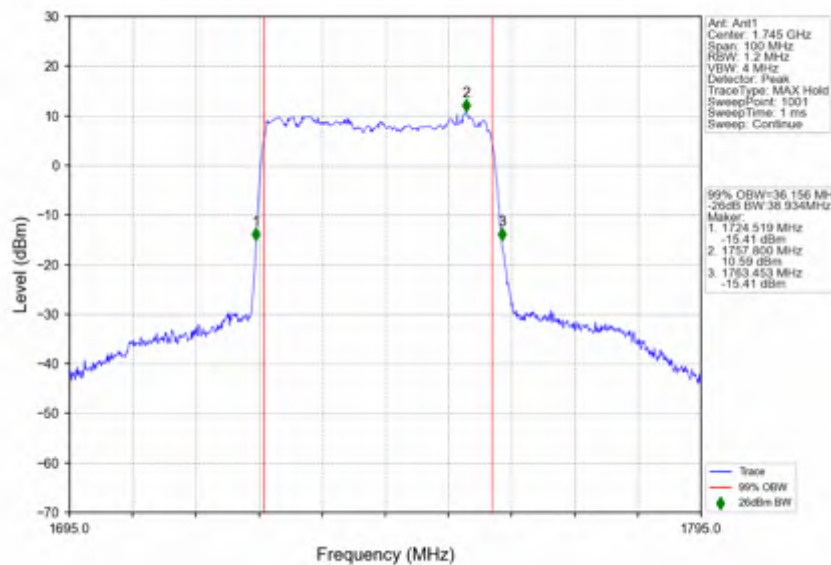
0512-51257350 0512-51257370 www.sgs.com.cn

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n66_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_1730MHz_Outer_Full



n66_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_1745MHz_Outer_Full



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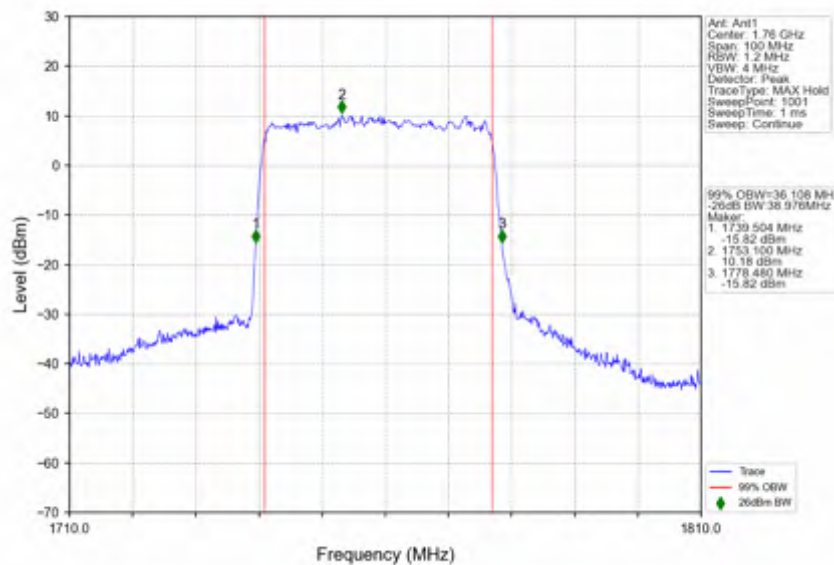
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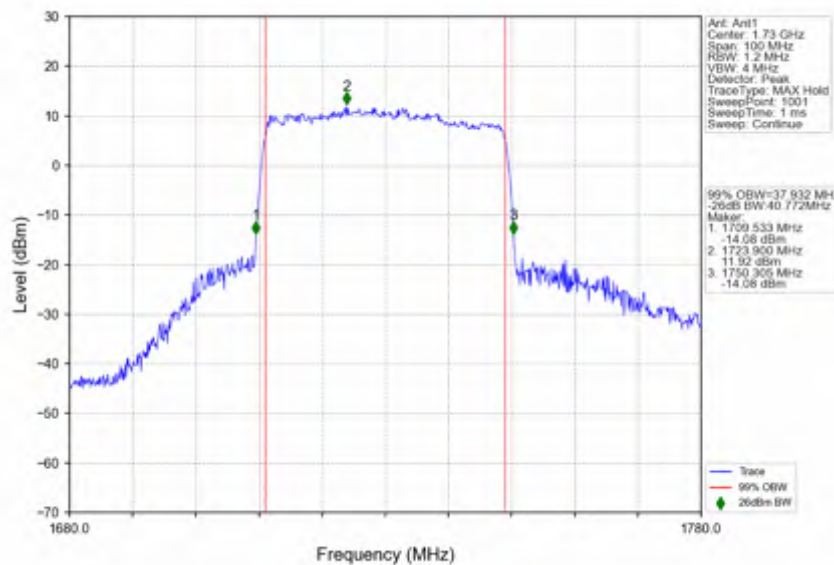
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n66_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM_1760MHz_Outer_Full



n66_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_1730MHz_Outer_Full



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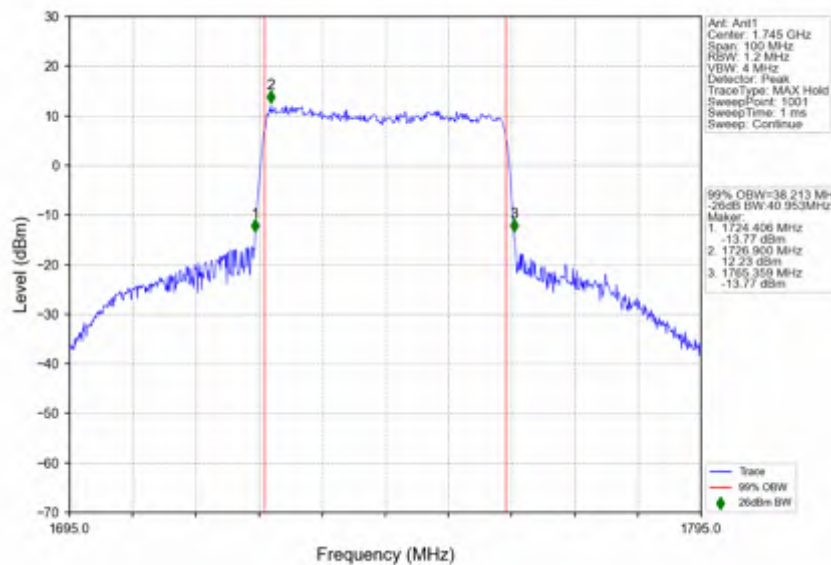
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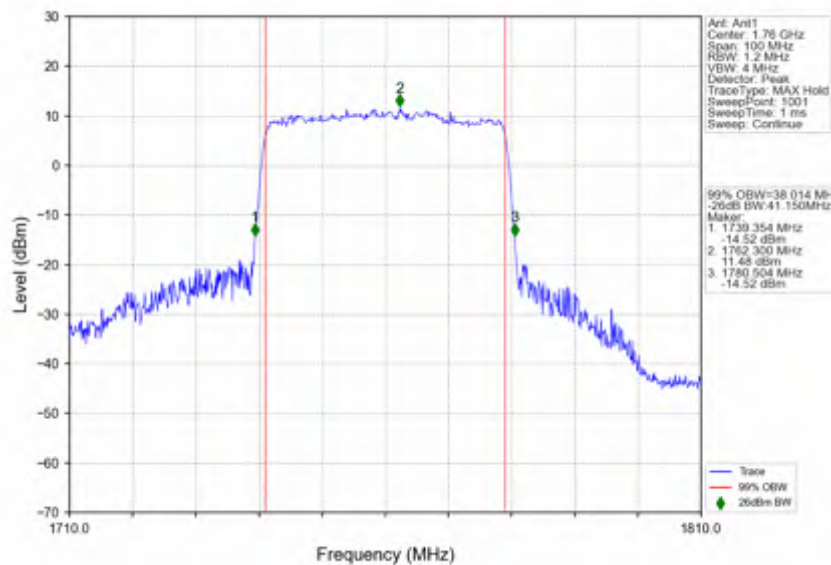
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n66_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_1745MHz_Outer_Full



n66_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_1760MHz_Outer_Full



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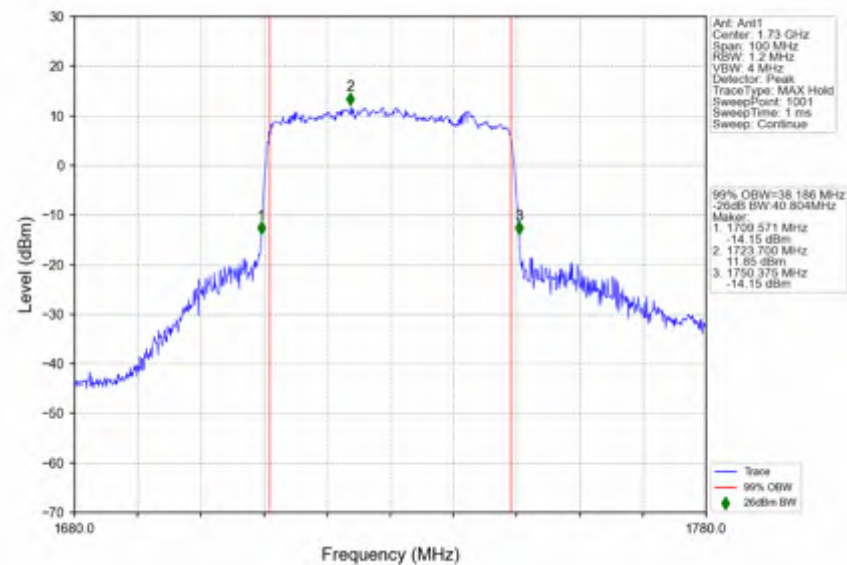
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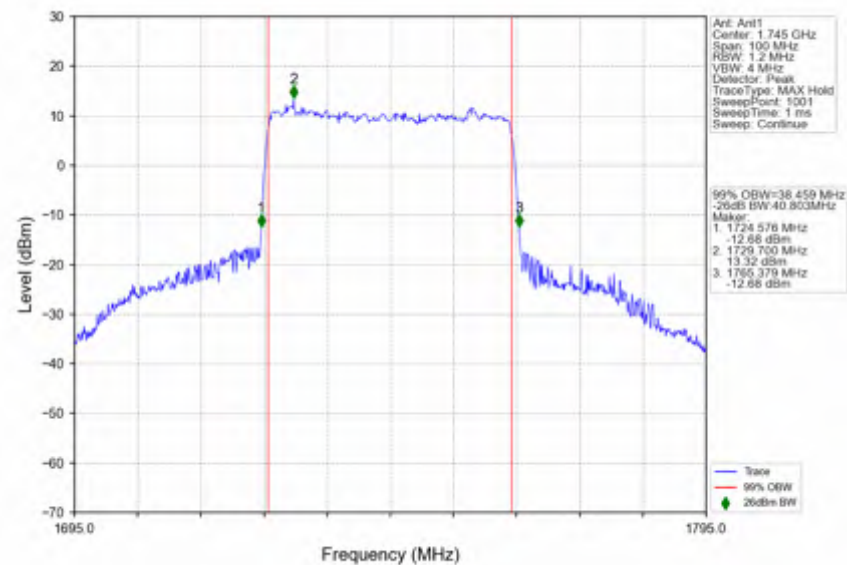
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n66_30kHz_SISO_NTNV_40MHz_CP-OFDM_16_QAM_1730MHz_Outer_Full



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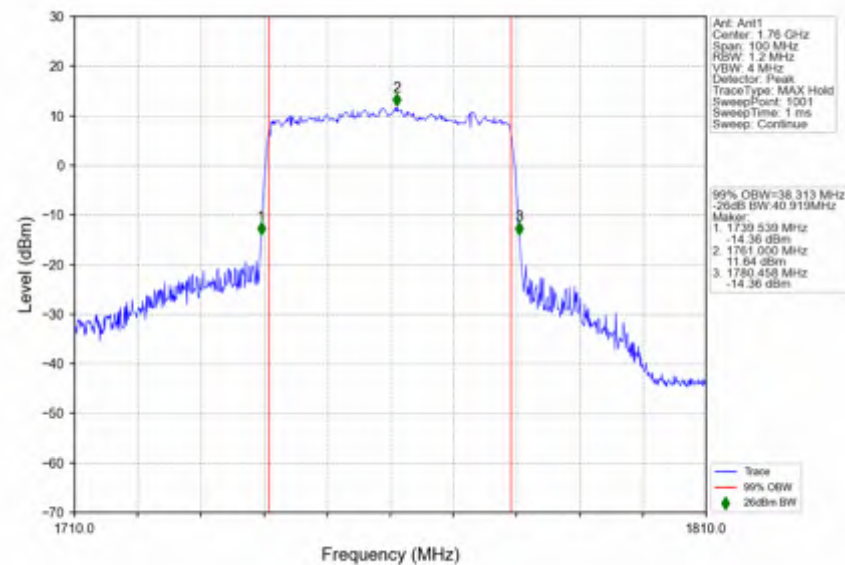
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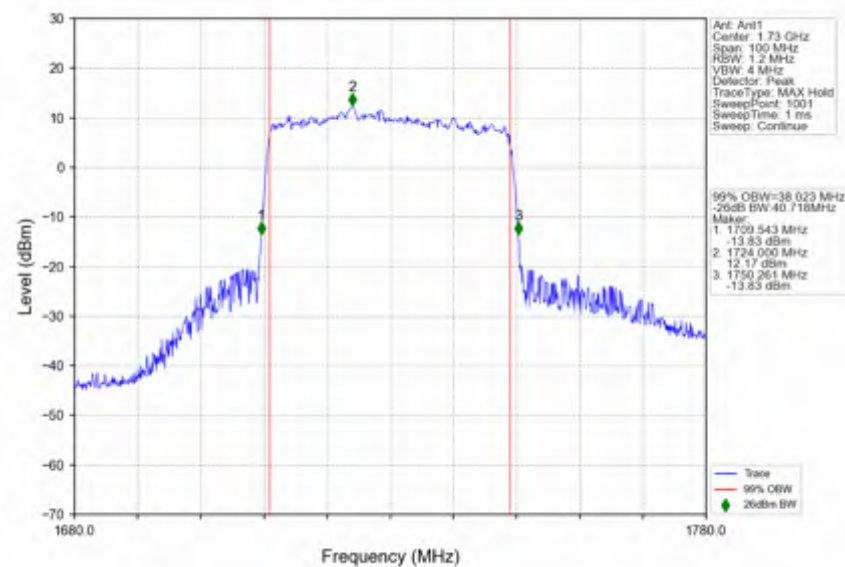
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n66_30kHz_SISO_NTNV_40MHz_CP-OFDM_16_QAM_1760MHz_Outer_Full



n66 30kHz SISO NTN 40MHz CP-OFDM 64 QAM 1730MHz Outer Full

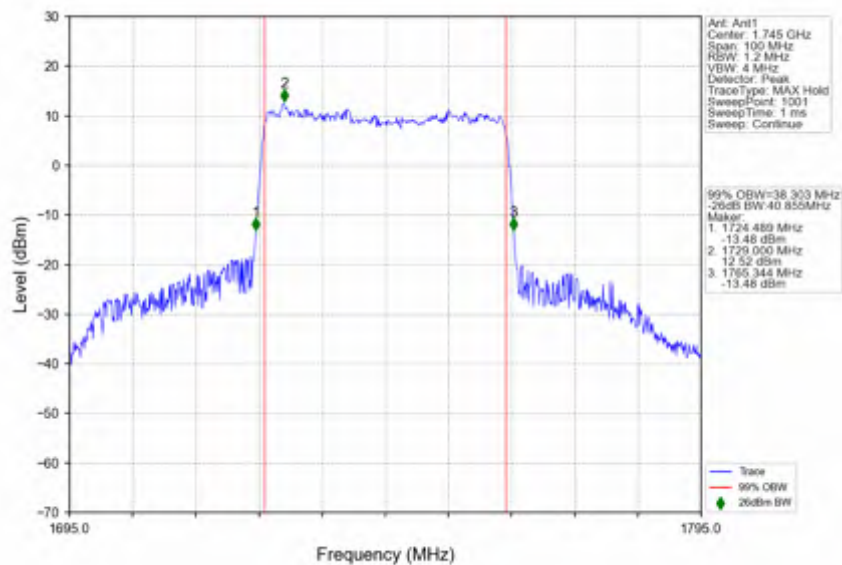


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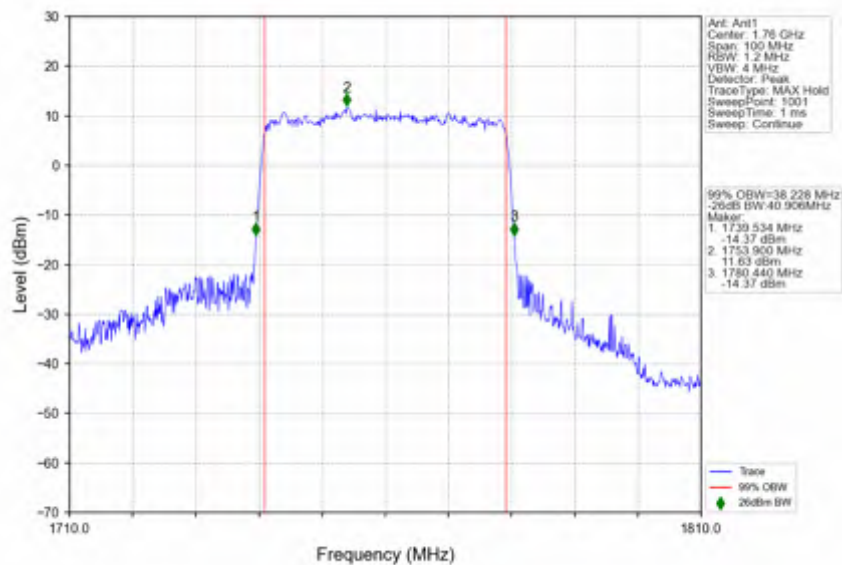
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n66_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_1745MHz_Outer_Full



n66_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_1760MHz_Outer_Full



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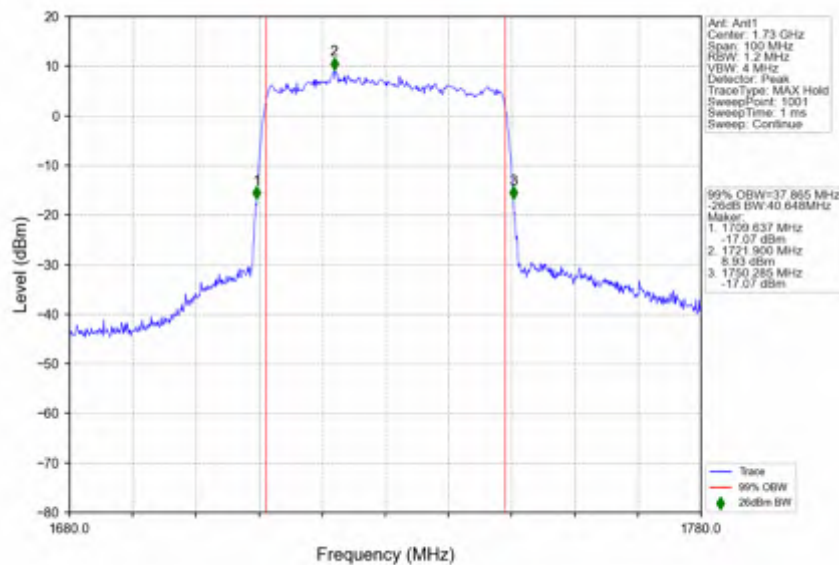
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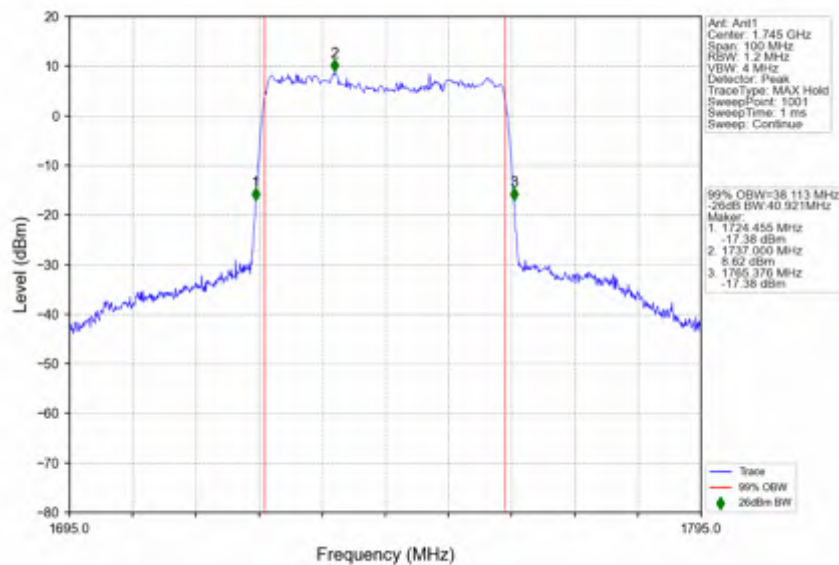
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n66_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_1730MHz_Outer_Full



n66_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_1745MHz_Outer_Full



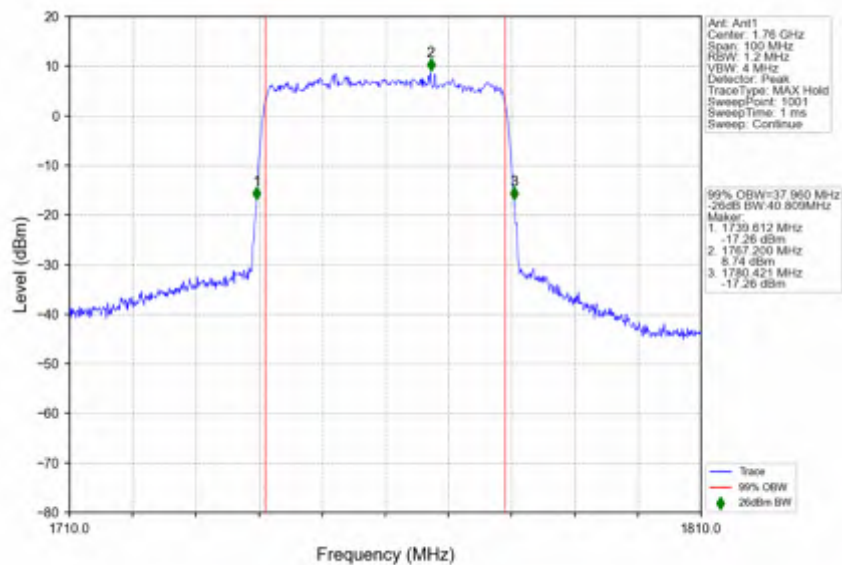
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8. 99% & 26dB Bandwidth

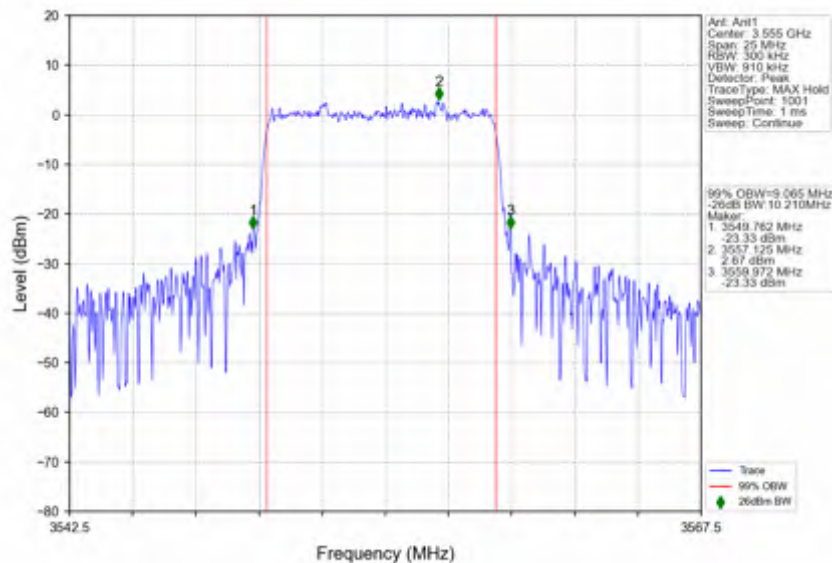
8.1 n78d 15k_SISO_10MHz_NTNV

8.1.1 Test Result

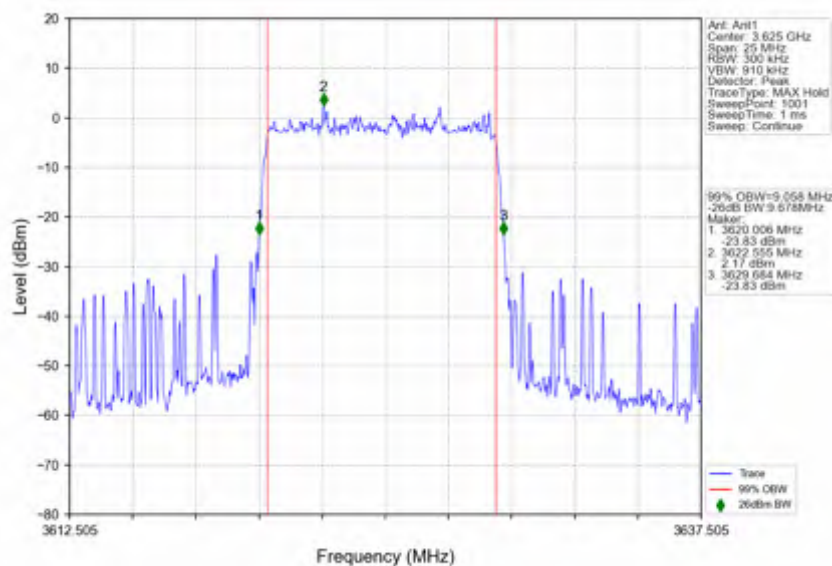
5G NR n78d SCS=15kHz SISO 10MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3555	Outer_Full	9.06	10.21	/	Pass
	3625.005	Outer_Full	9.06	9.68	/	Pass
	3694.995	Outer_Full	9.06	9.86	/	Pass
DFT-s-OFDM QPSK	3555	Outer_Full	9.08	11.24	/	Pass
	3625.005	Outer_Full	9.04	10.00	/	Pass
	3694.995	Outer_Full	9.09	10.53	/	Pass
DFT-s-OFDM 16 QAM	3555	Outer_Full	9.07	10.58	/	Pass
	3625.005	Outer_Full	9.06	10.05	/	Pass
	3694.995	Outer_Full	9.05	9.71	/	Pass
DFT-s-OFDM 64 QAM	3555	Outer_Full	9.07	10.45	/	Pass
	3625.005	Outer_Full	9.04	9.69	/	Pass
	3694.995	Outer_Full	9.00	9.78	/	Pass
DFT-s-OFDM 256 QAM	3555	Outer_Full	9.07	10.25	/	Pass
	3625.005	Outer_Full	9.05	10.02	/	Pass
	3694.995	Outer_Full	9.08	9.88	/	Pass
CP-OFDM QPSK	3555	Outer_Full	9.38	10.91	/	Pass
	3625.005	Outer_Full	9.37	10.01	/	Pass
	3694.995	Outer_Full	9.34	10.12	/	Pass
CP-OFDM 16 QAM	3555	Outer_Full	9.41	10.57	/	Pass
	3625.005	Outer_Full	9.42	10.64	/	Pass
	3694.995	Outer_Full	9.38	10.44	/	Pass
CP-OFDM 64 QAM	3555	Outer_Full	9.38	10.90	/	Pass
	3625.005	Outer_Full	9.35	10.78	/	Pass
	3694.995	Outer_Full	9.36	10.65	/	Pass
CP-OFDM 256 QAM	3555	Outer_Full	9.44	12.26	/	Pass
	3625.005	Outer_Full	9.41	11.27	/	Pass
	3694.995	Outer_Full	9.40	10.42	/	Pass

8.1.2 Test Graph

n78d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3555MHz_Outer_Full



n78d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3625.005MHz_Outer_Full



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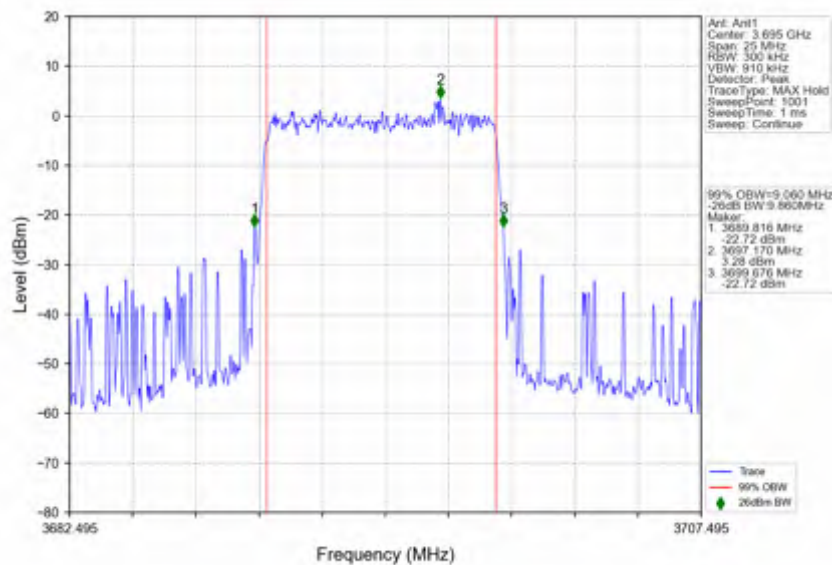
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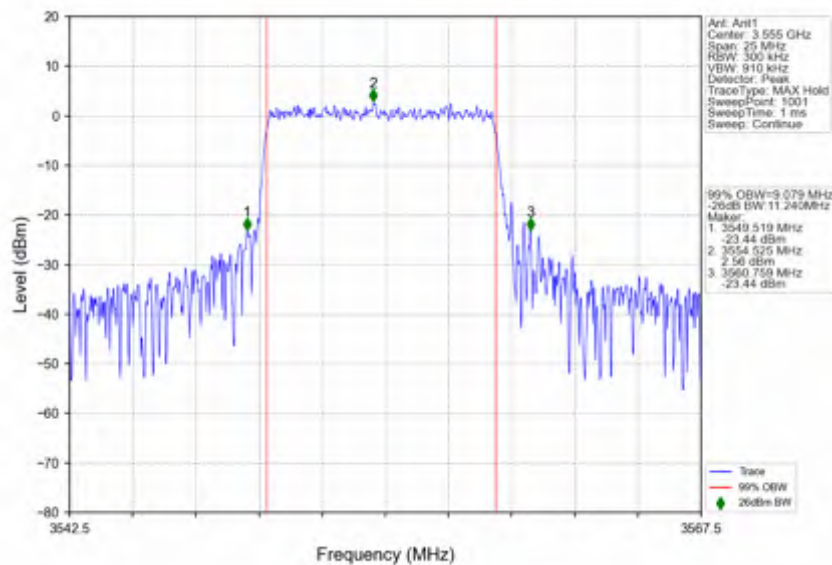
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n78d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_QPSK_3555MHz_Outer_Full



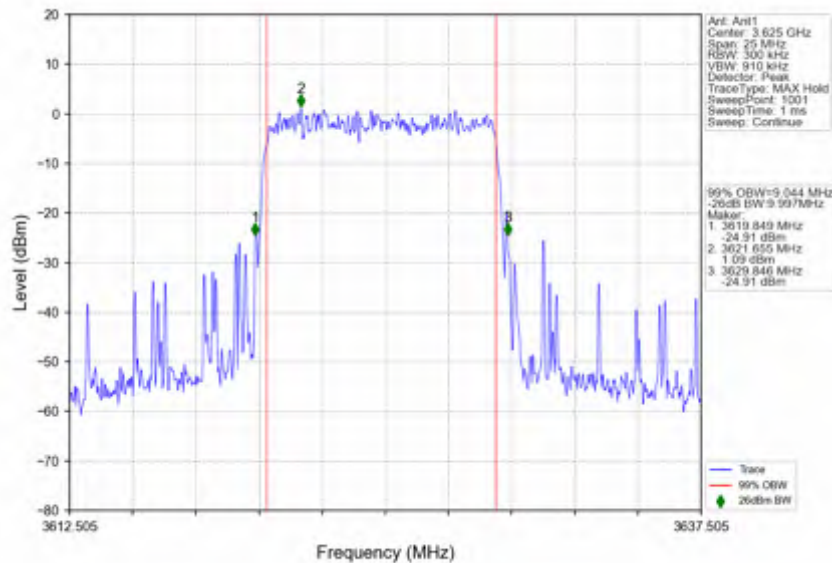
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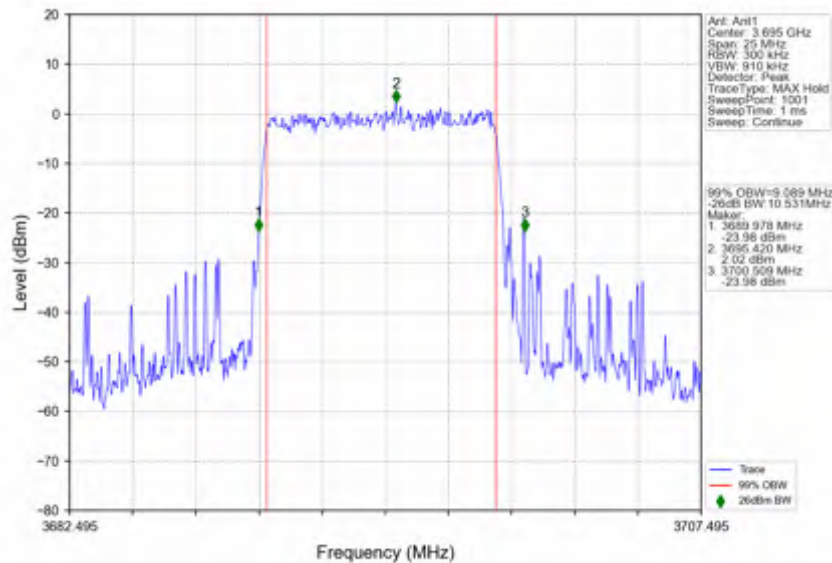
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n78d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3625.005MHz_Outer_Full



n78d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3694.995MHz_Outer_Full



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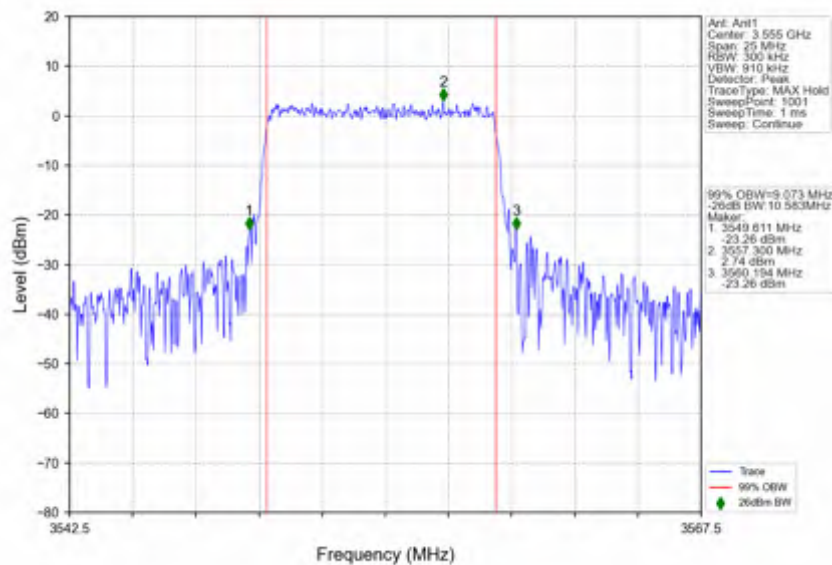
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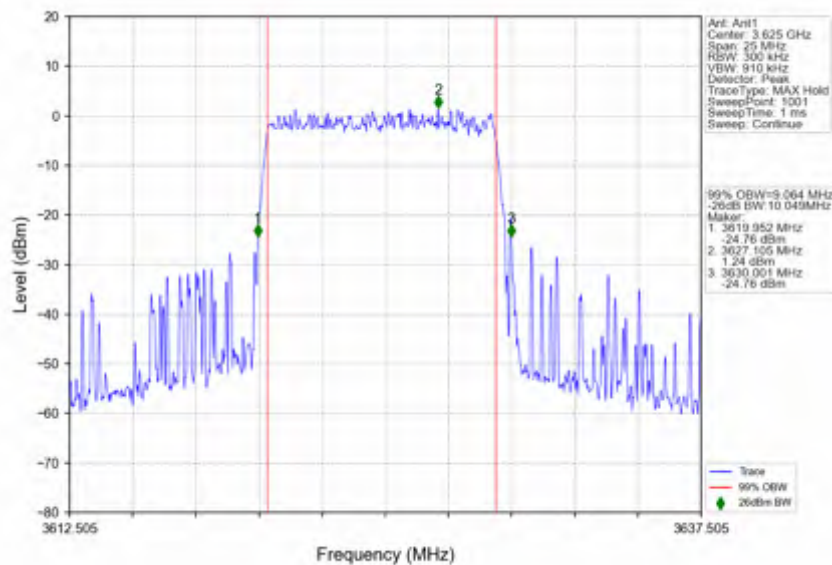
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n78d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_3625.005MHz_Outer_Full



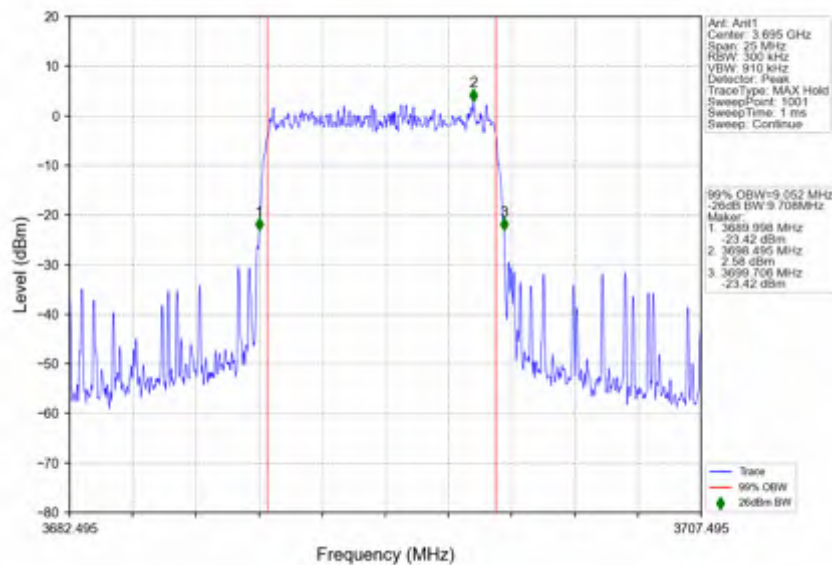
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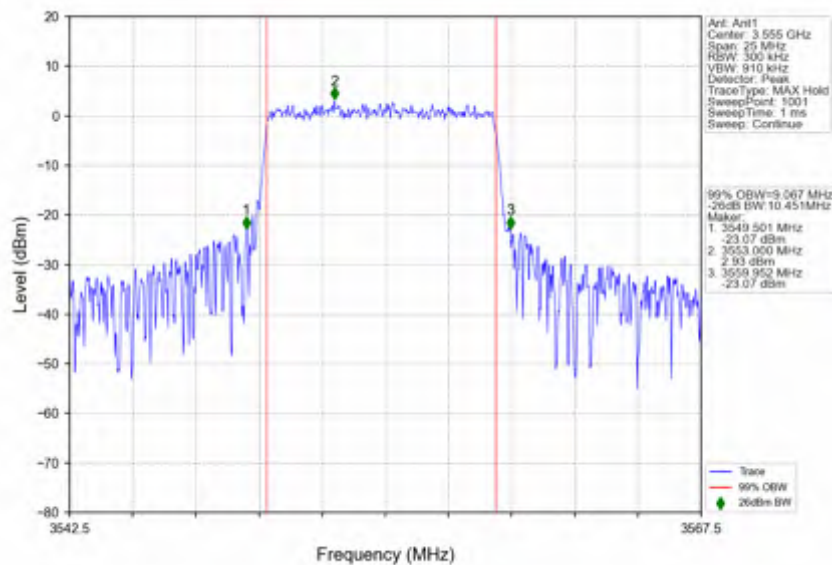
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n78d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_3694.995MHz_Outer_Full



n78d_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_3555MHz_Outer_Full



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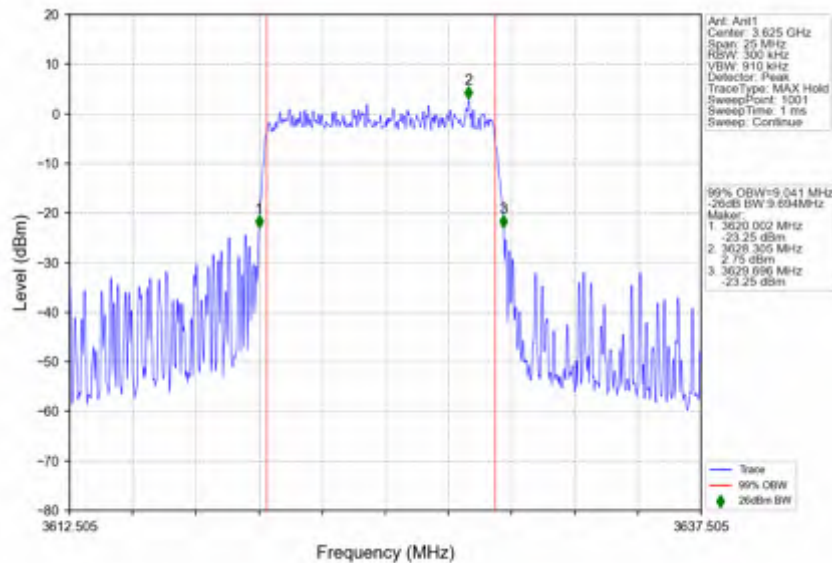
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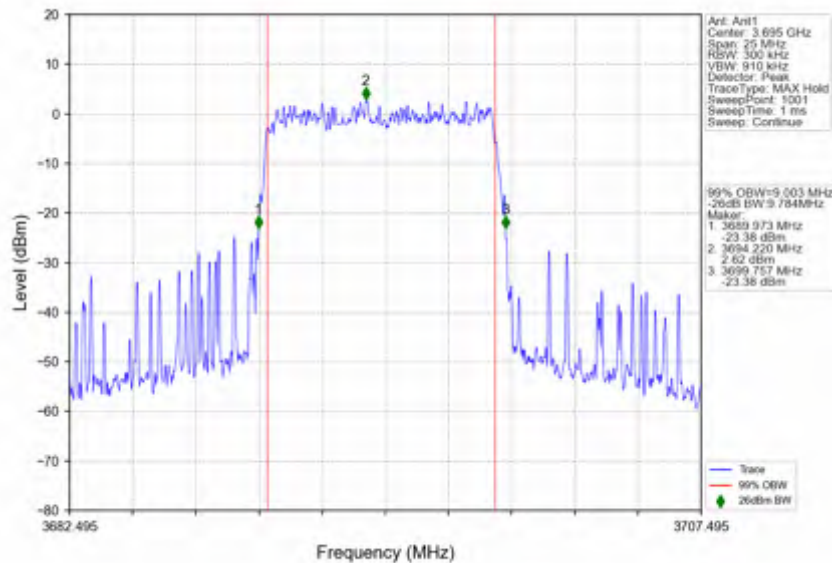
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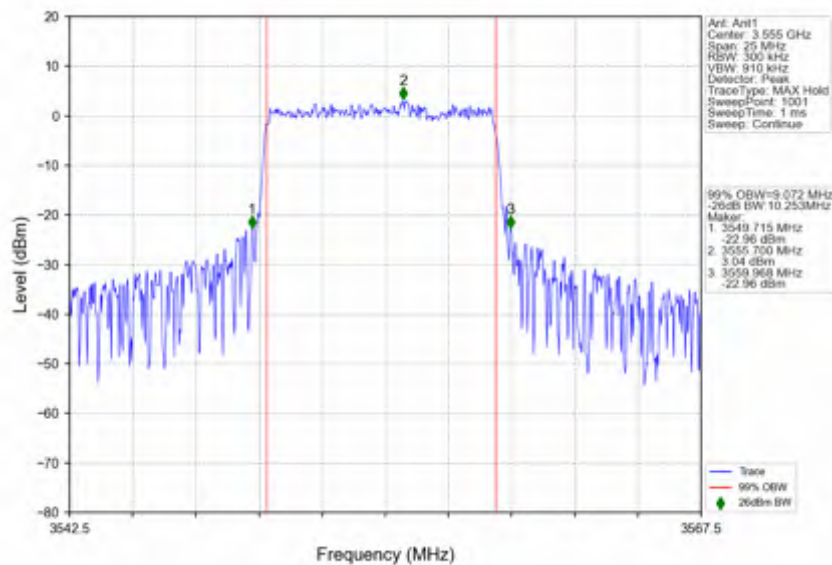
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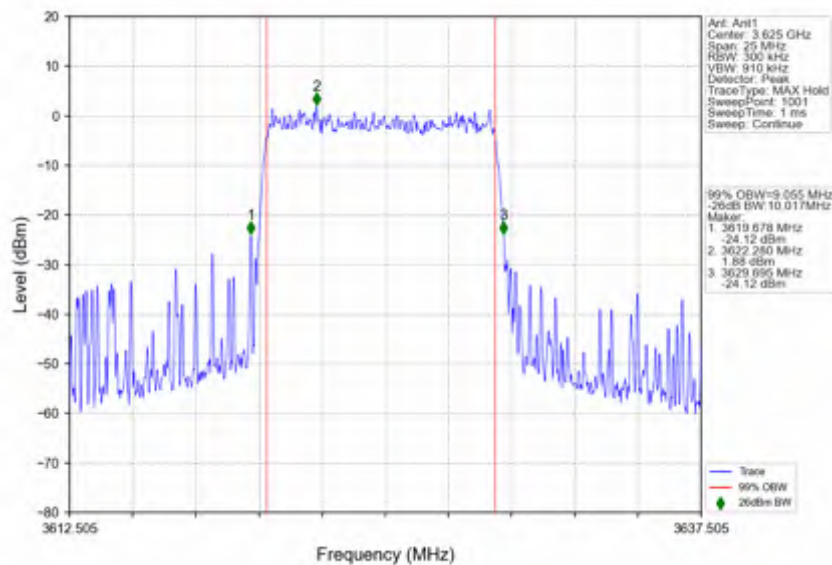
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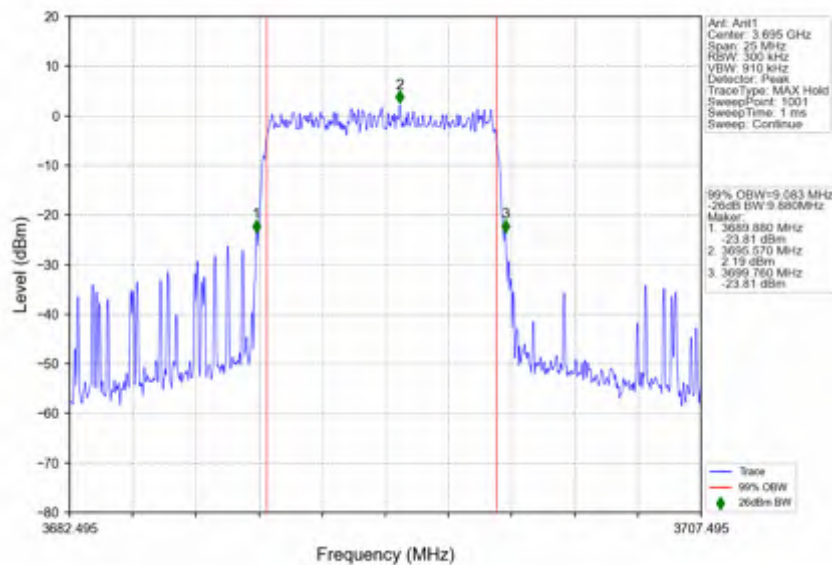
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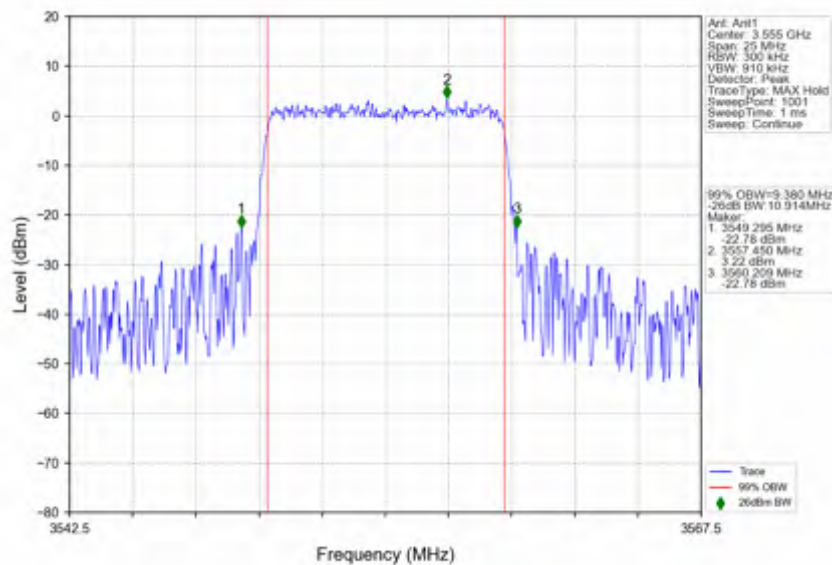
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n78d 15kHz SISO NTN 10MHz CP-OFDM QPSK 3555MHz Outer Full

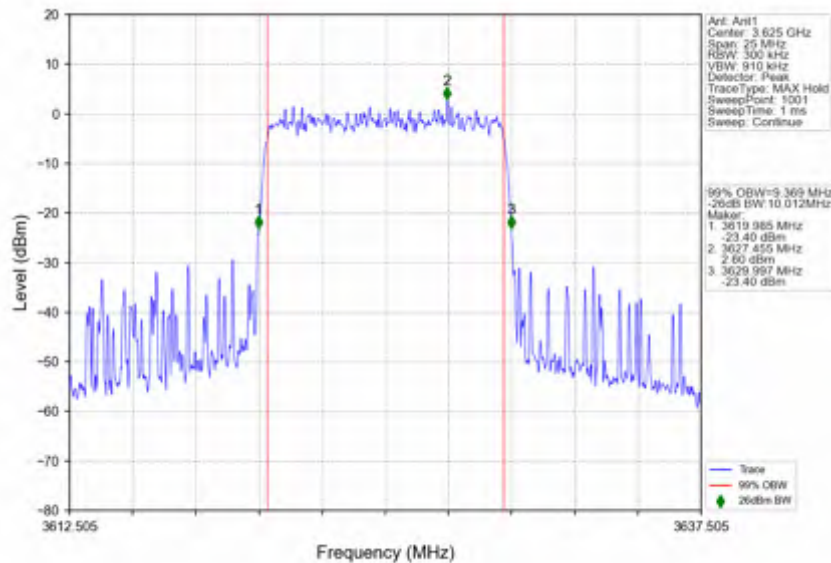


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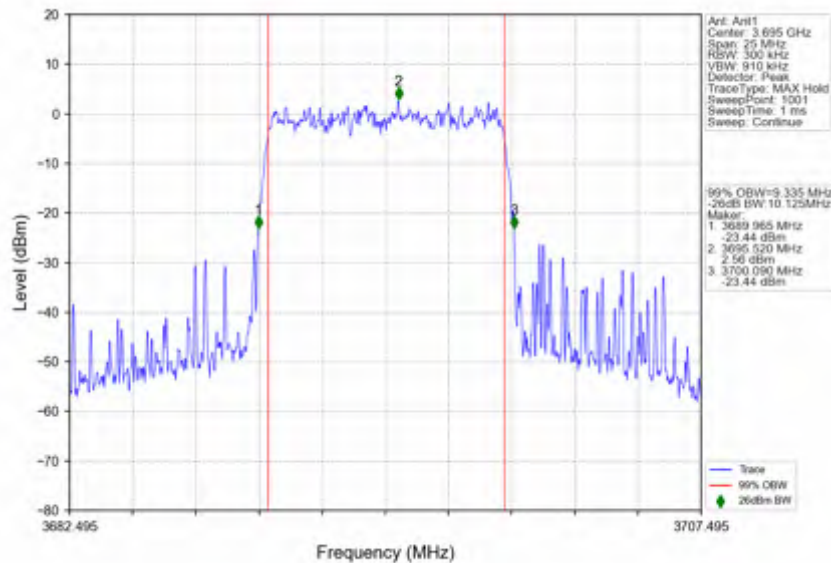
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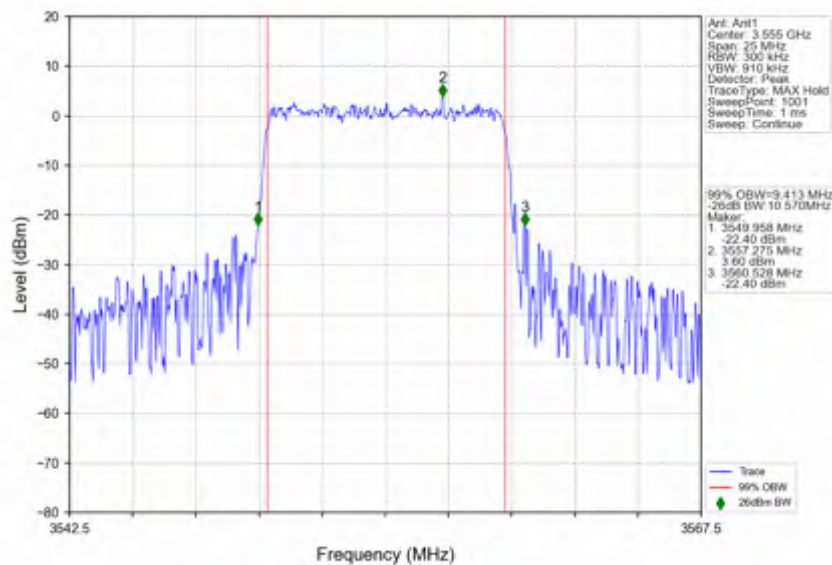
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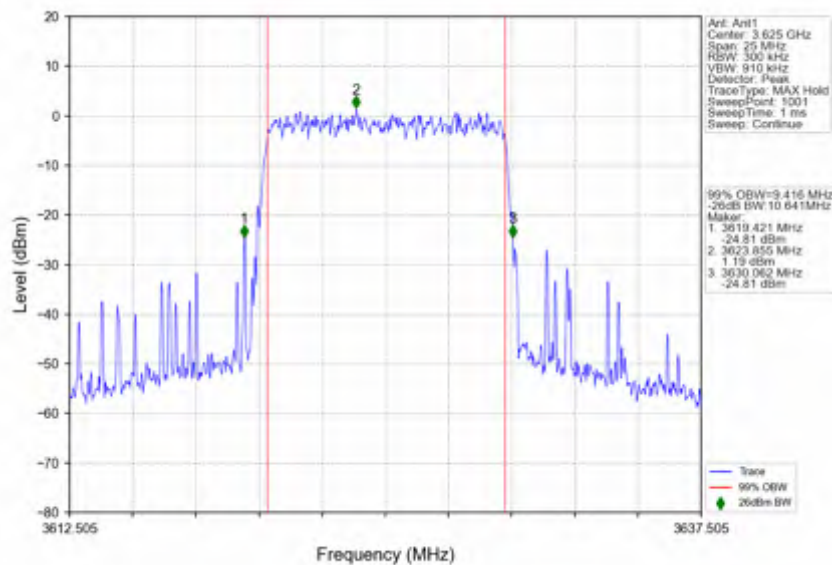
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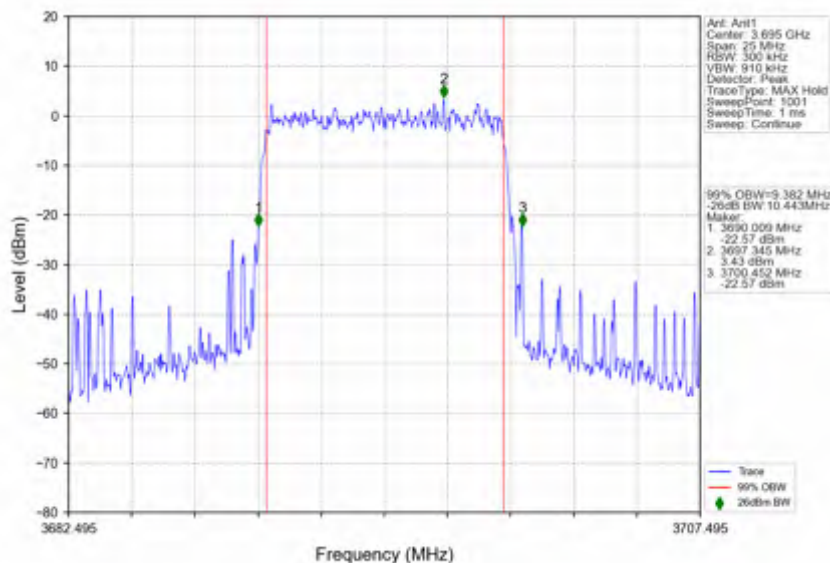


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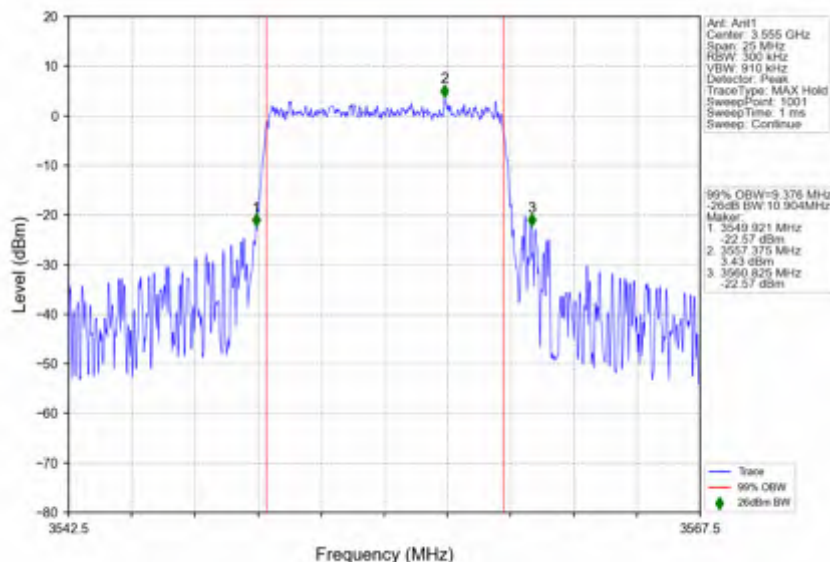
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n78d	15kHz	SISO	NTNV	10MHz	CP-OFDM	16 QAM	3694.995MHz	Outer	Full
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n78d	15kHz	SISO	NTNV	10MHz	CP-OFDM	64 QAM	3555MHz	Outer	Full
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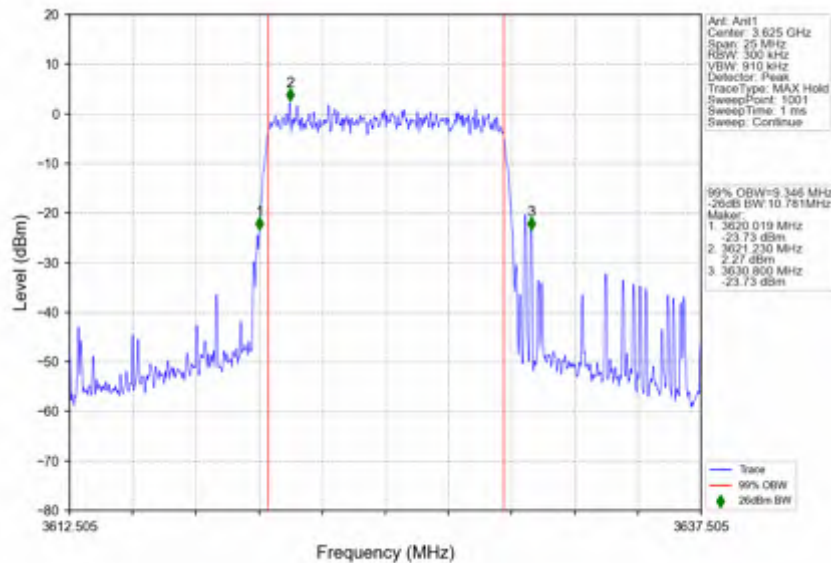


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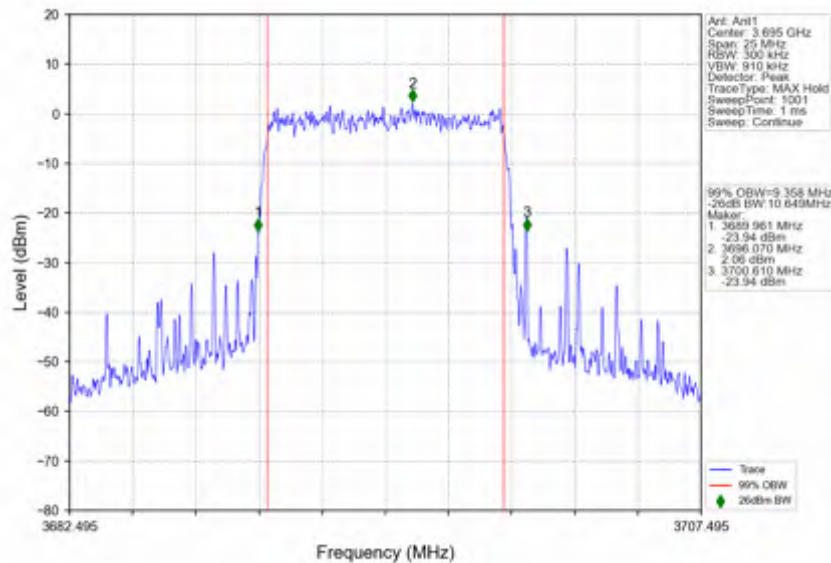
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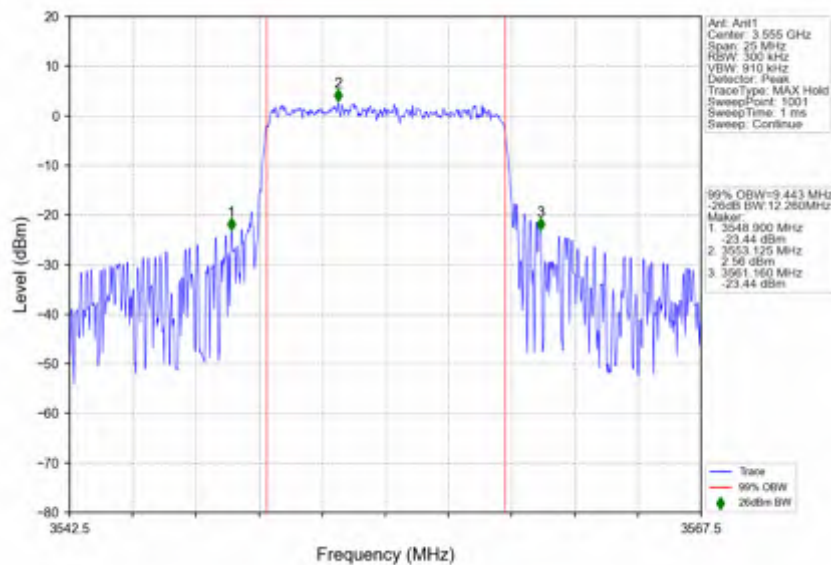


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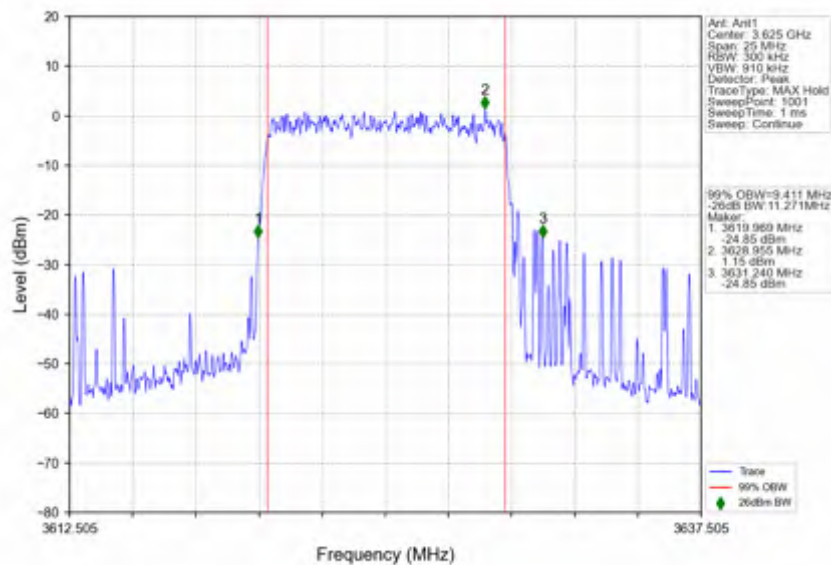
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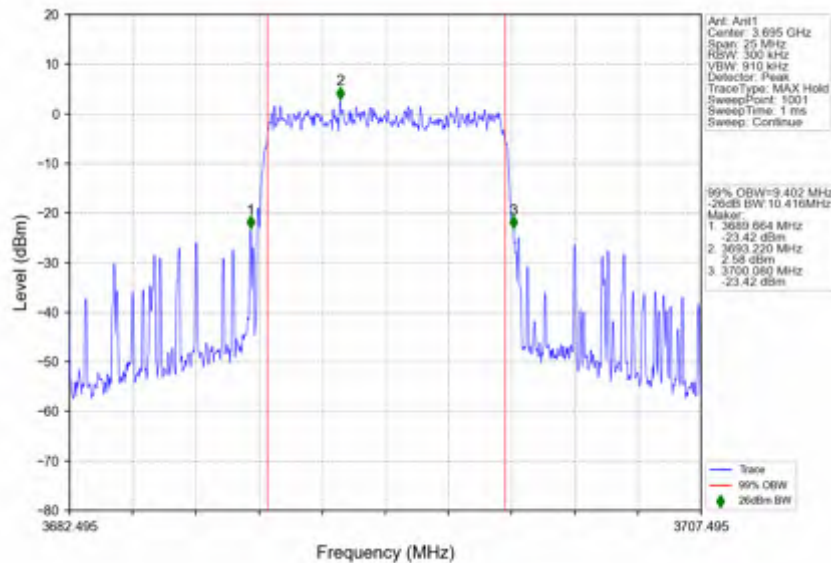


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8.2 15k_SISO_15MHz_NTNV

8.2.1 Test Result

5G NR n78d SCS=15kHz SISO 15MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3557.505	Outer_Full	13.56	14.60	/	Pass
	3625.005	Outer_Full	13.56	14.58	/	Pass
	3692.49	Outer_Full	13.57	14.49	/	Pass
DFT-s-OFDM QPSK	3557.505	Outer_Full	13.54	14.66	/	Pass
	3625.005	Outer_Full	13.57	14.59	/	Pass
	3692.49	Outer_Full	13.60	14.53	/	Pass
DFT-s-OFDM 16 QAM	3557.505	Outer_Full	13.55	14.72	/	Pass
	3625.005	Outer_Full	13.57	14.55	/	Pass
	3692.49	Outer_Full	13.55	14.57	/	Pass
DFT-s-OFDM 64 QAM	3557.505	Outer_Full	13.57	15.61	/	Pass
	3625.005	Outer_Full	13.61	14.65	/	Pass
	3692.49	Outer_Full	13.52	15.31	/	Pass
DFT-s-OFDM 256 QAM	3557.505	Outer_Full	13.54	14.67	/	Pass
	3625.005	Outer_Full	13.55	14.56	/	Pass
	3692.49	Outer_Full	13.51	14.62	/	Pass
CP-OFDM QPSK	3557.505	Outer_Full	14.23	15.88	/	Pass
	3625.005	Outer_Full	14.23	15.21	/	Pass
	3692.49	Outer_Full	14.22	15.19	/	Pass
CP-OFDM 16 QAM	3557.505	Outer_Full	14.21	15.24	/	Pass
	3625.005	Outer_Full	14.23	15.22	/	Pass
	3692.49	Outer_Full	14.25	15.43	/	Pass
CP-OFDM 64 QAM	3557.505	Outer_Full	14.21	15.70	/	Pass
	3625.005	Outer_Full	14.25	15.17	/	Pass
	3692.49	Outer_Full	14.25	15.21	/	Pass
CP-OFDM 256 QAM	3557.505	Outer_Full	14.22	15.63	/	Pass
	3625.005	Outer_Full	14.29	15.25	/	Pass
	3692.49	Outer_Full	14.27	16.51	/	Pass



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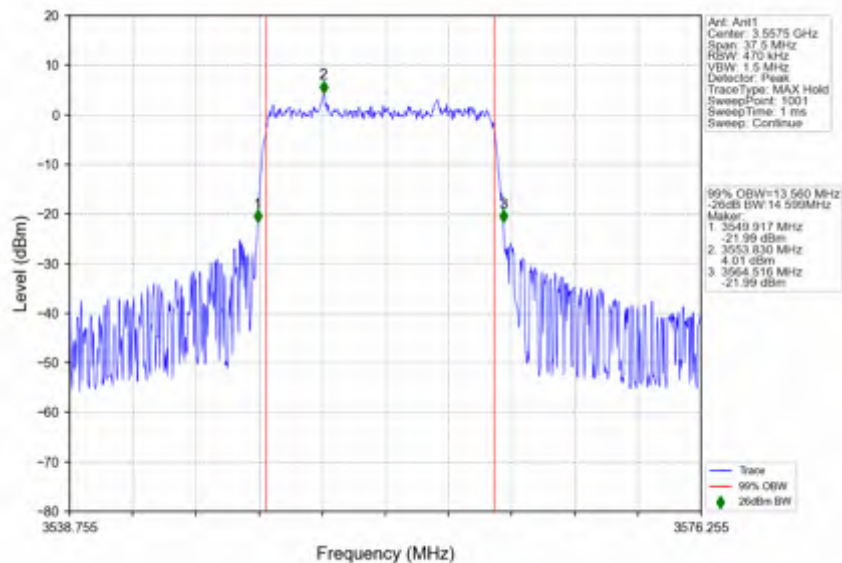
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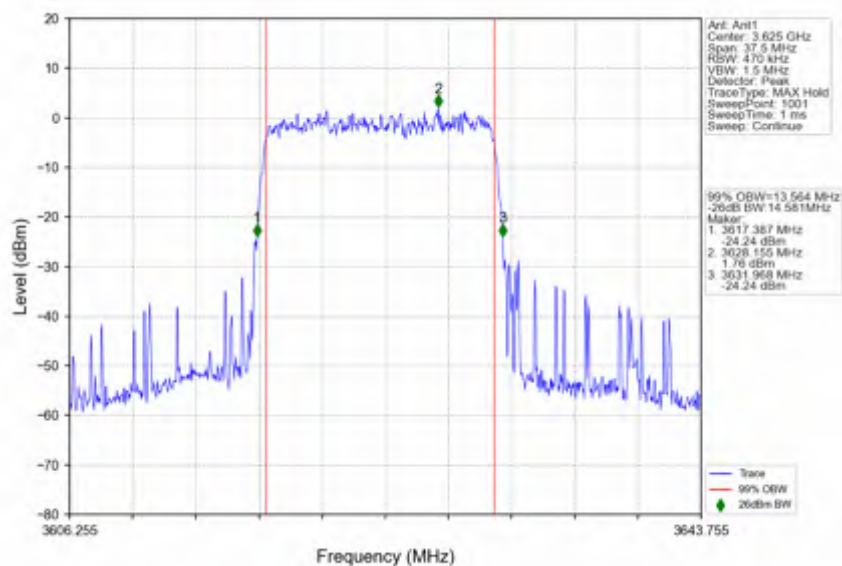
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8.2.2 Test Graph

n78d_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_PI/2_BPSK_3557.505MHz_Outer_Full



n78d_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_PI/2_BPSK_3625.005MHz_Outer_Full



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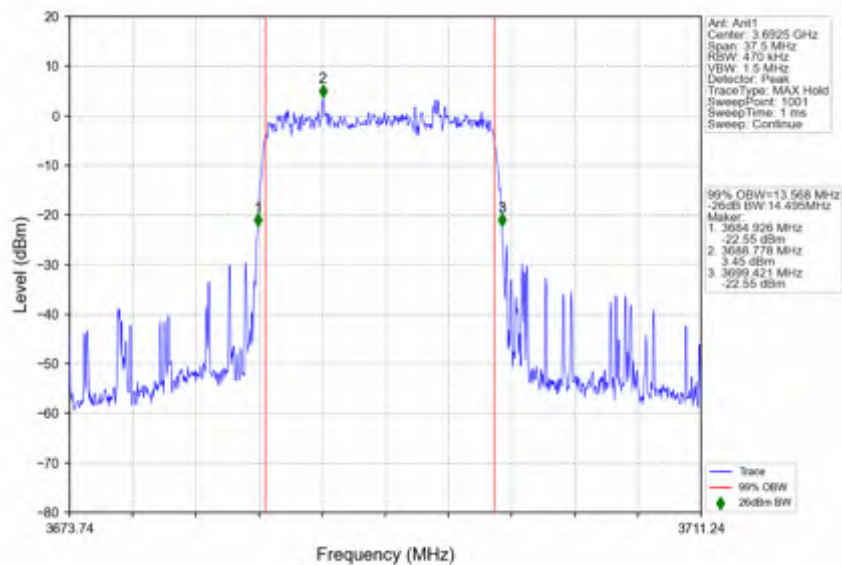
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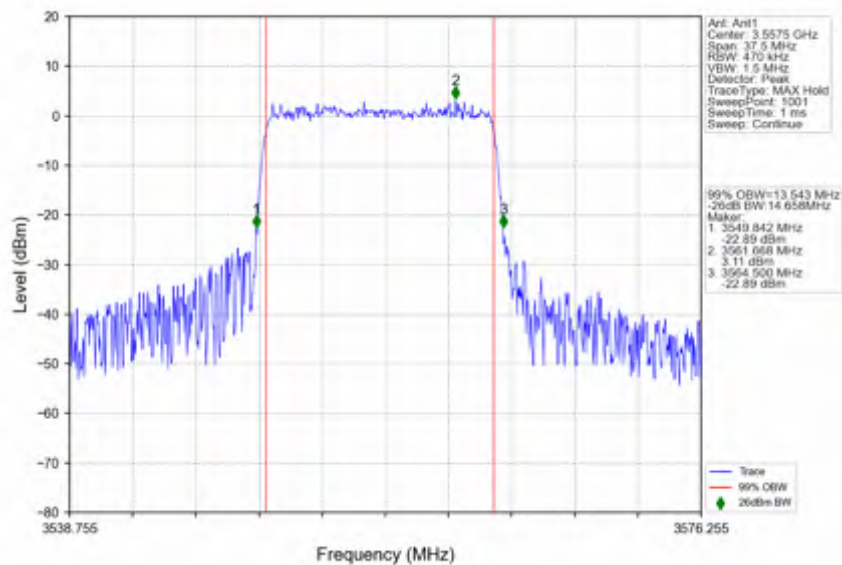
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n78d_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_3692.49MHz_Outer_Full



n78d_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_3557.505MHz_Outer_Full



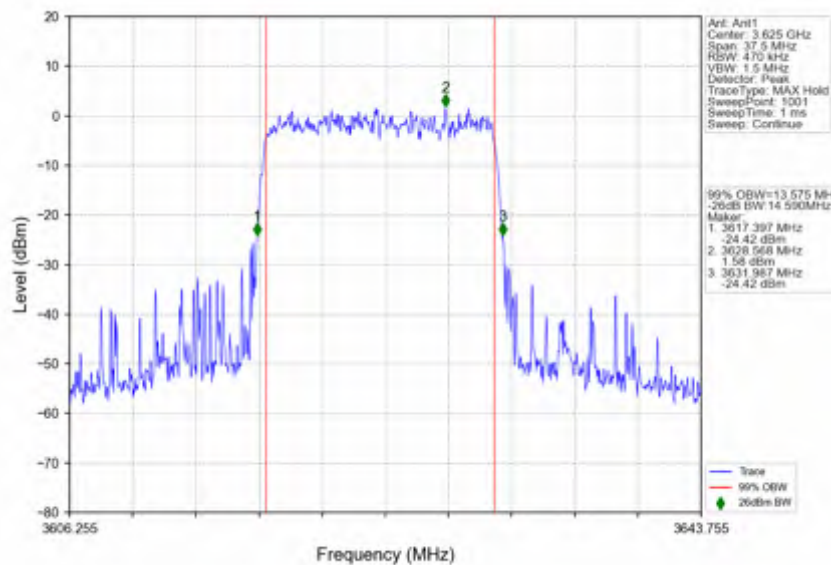
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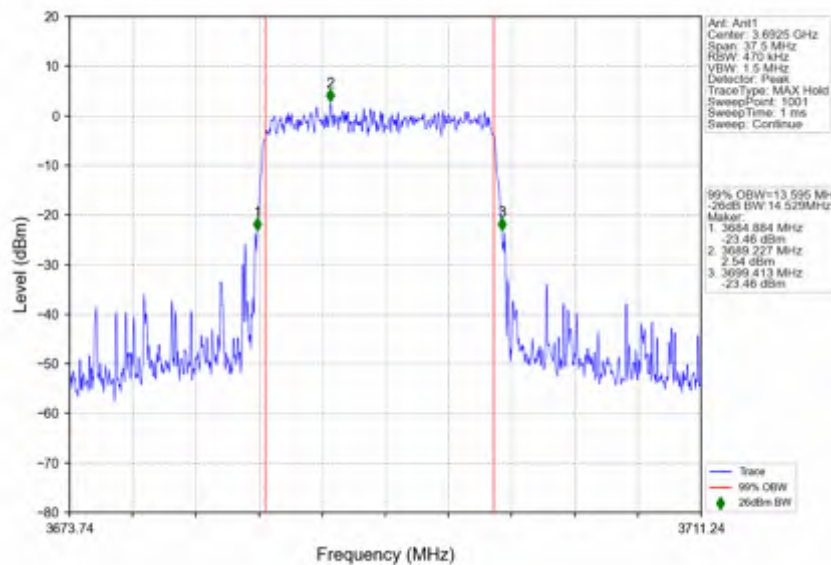
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n78d_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_3625.005MHz_Outer_Full



n78d_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_3692.49MHz_Outer_Full



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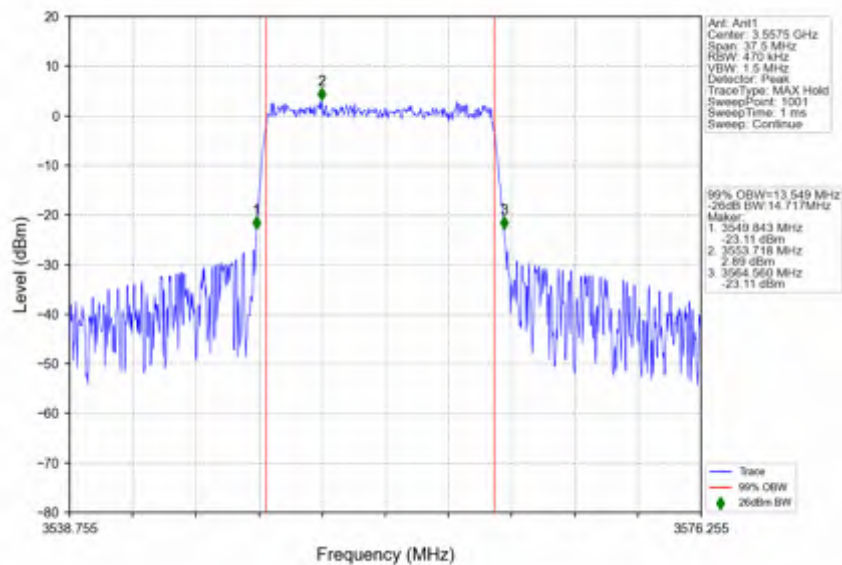
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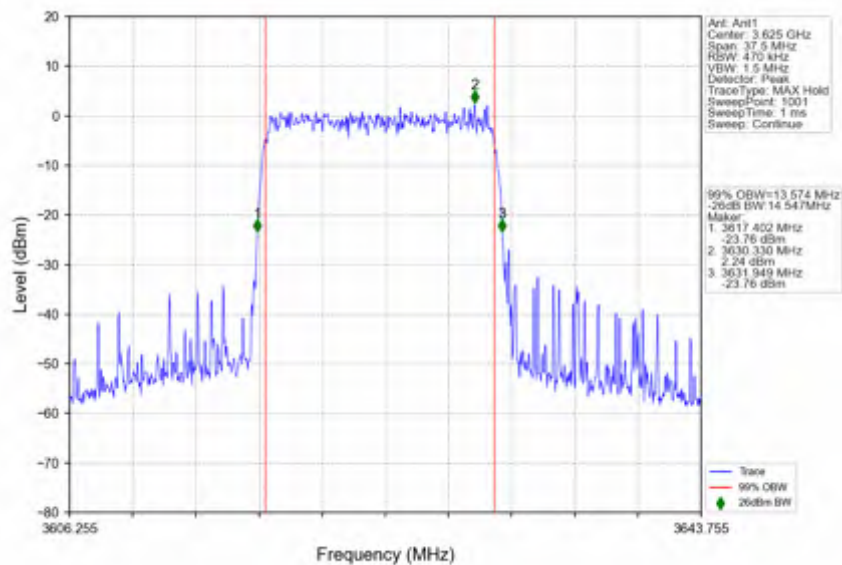
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n78d	15kHz	SISO	NTNV	15MHz	DFT-s-OFDM	16 QAM	3625.005MHz	Outer	Full
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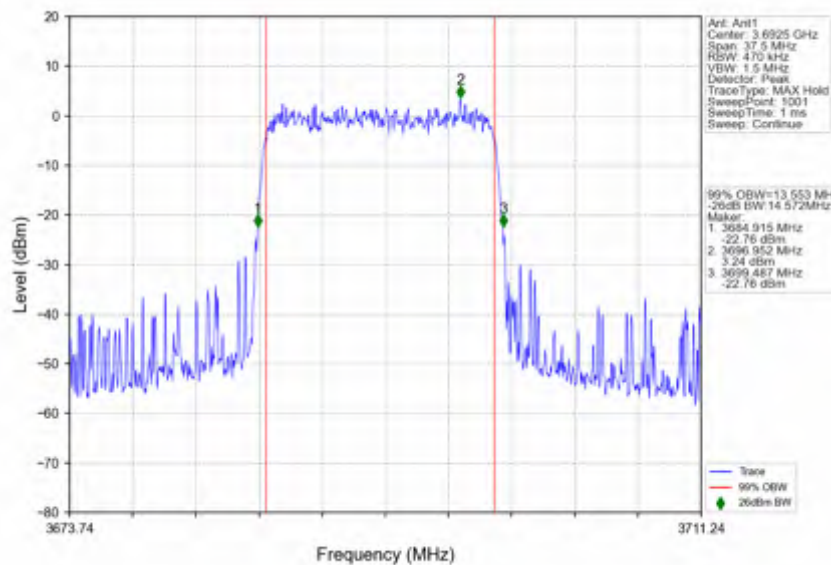


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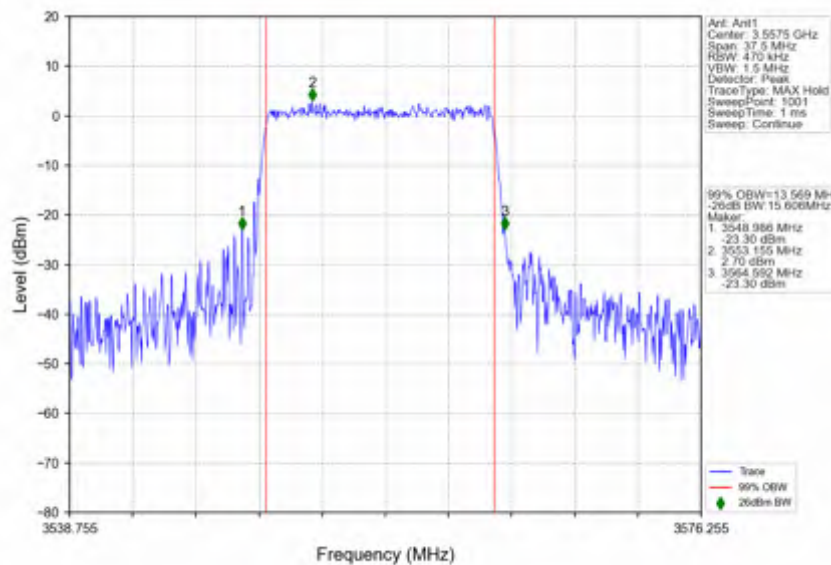
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n78d_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16_QAM_3692.49MHz_Outer_Full



n78d_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_64_QAM_3557.505MHz_Outer_Full



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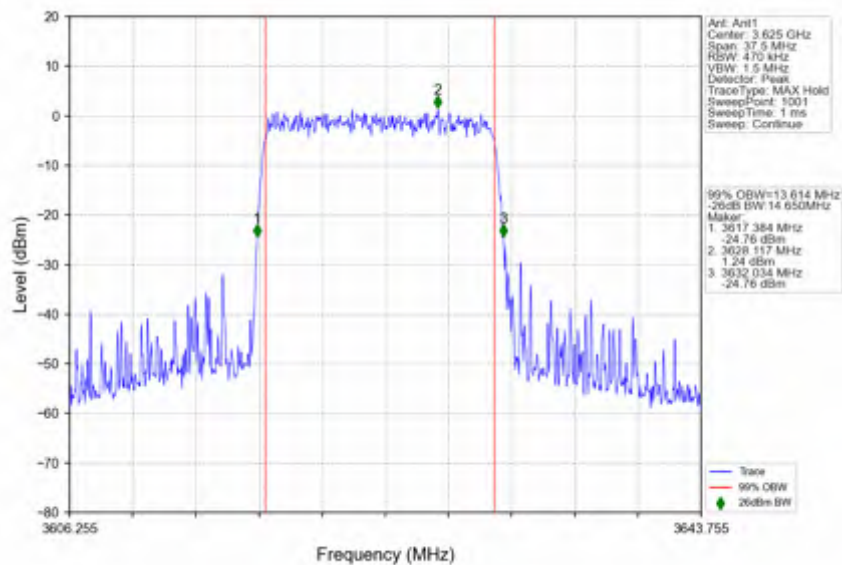
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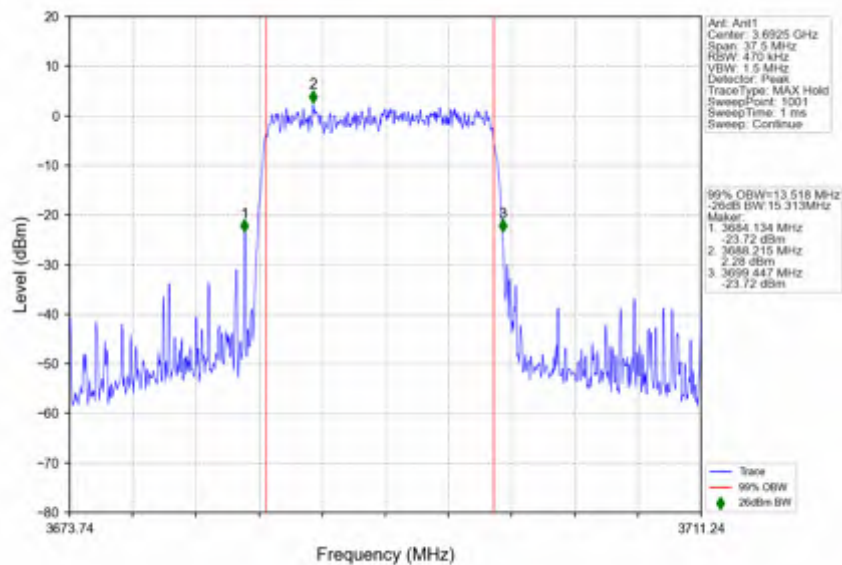
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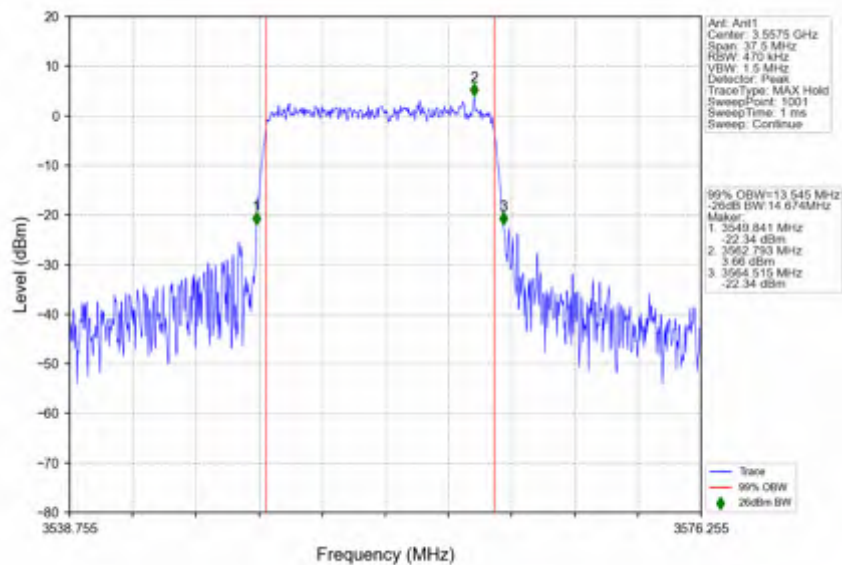
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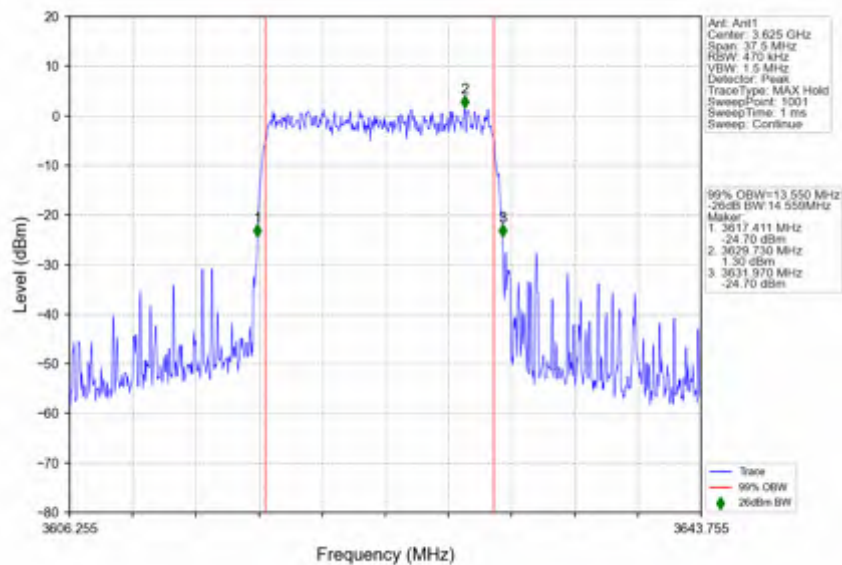
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n78d_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_3557.505MHz_Outer_Full
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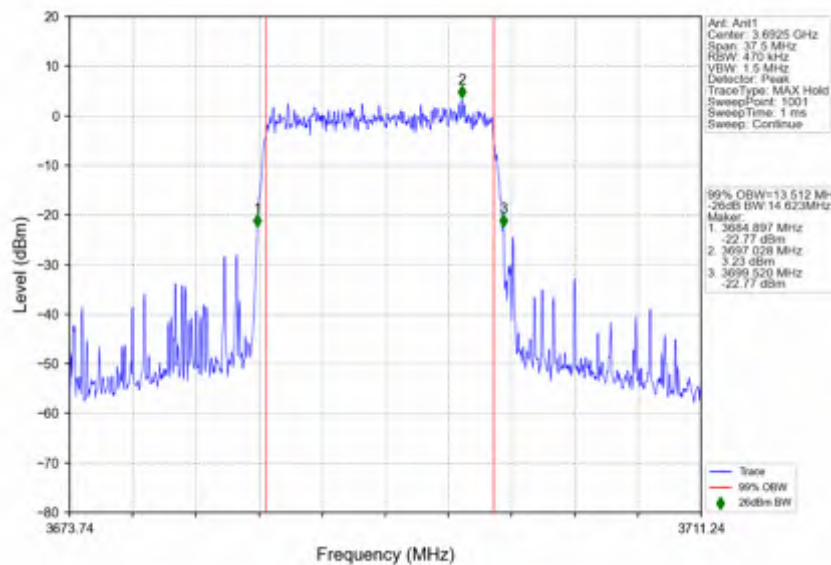


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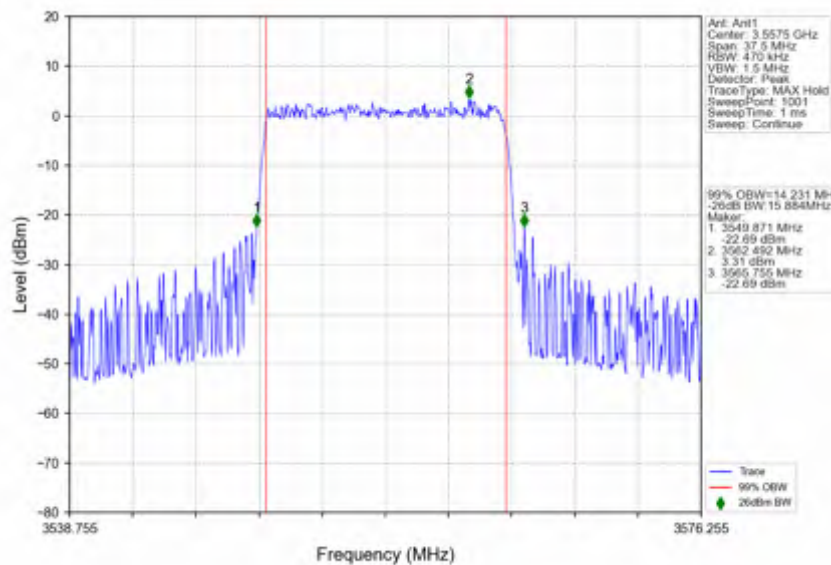
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n78d_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_3692.49MHz_Outer_Full



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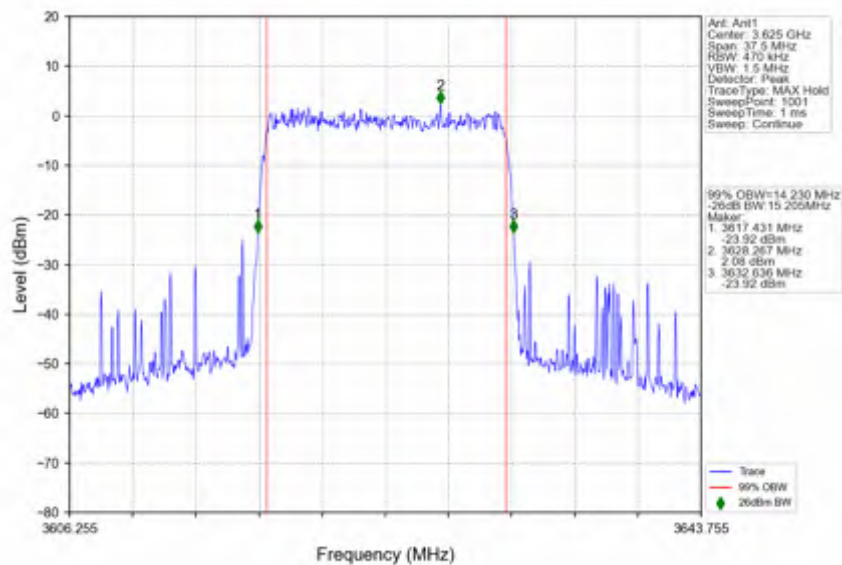
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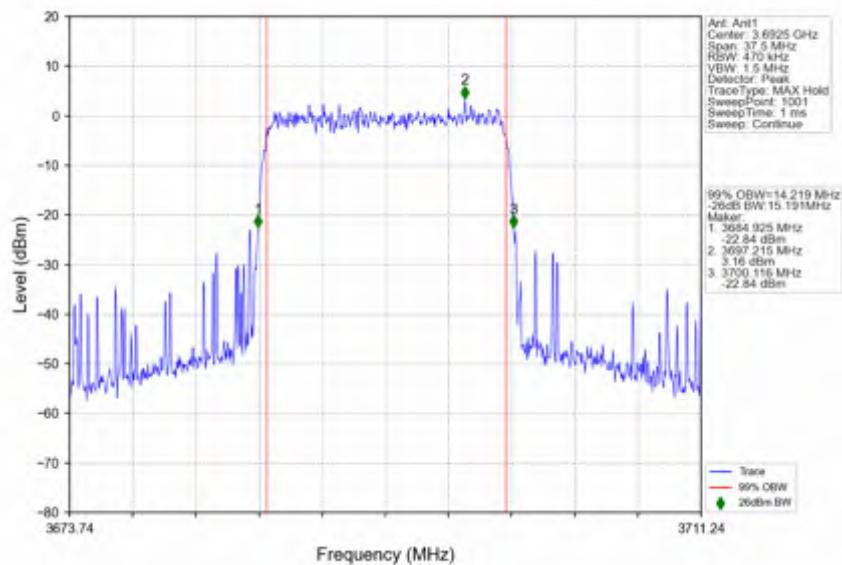
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n78d_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_3692.49MHz_Outer_Full



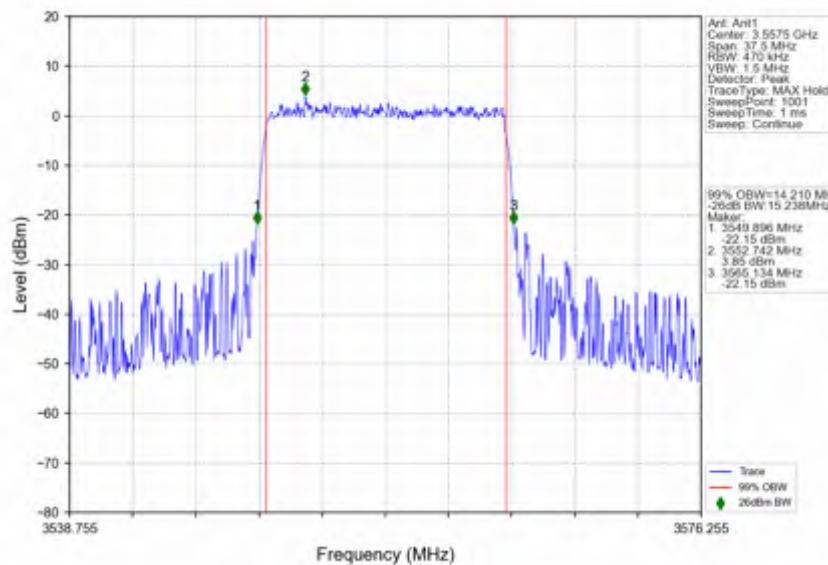
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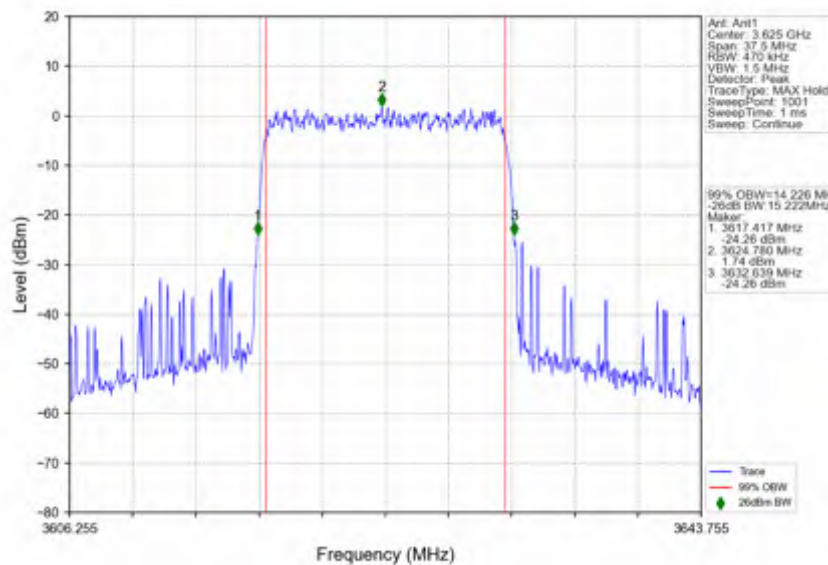
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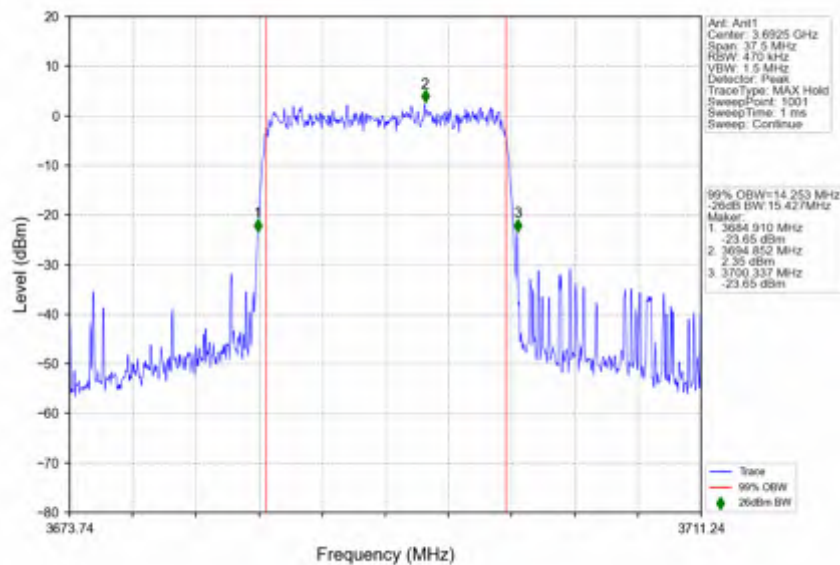
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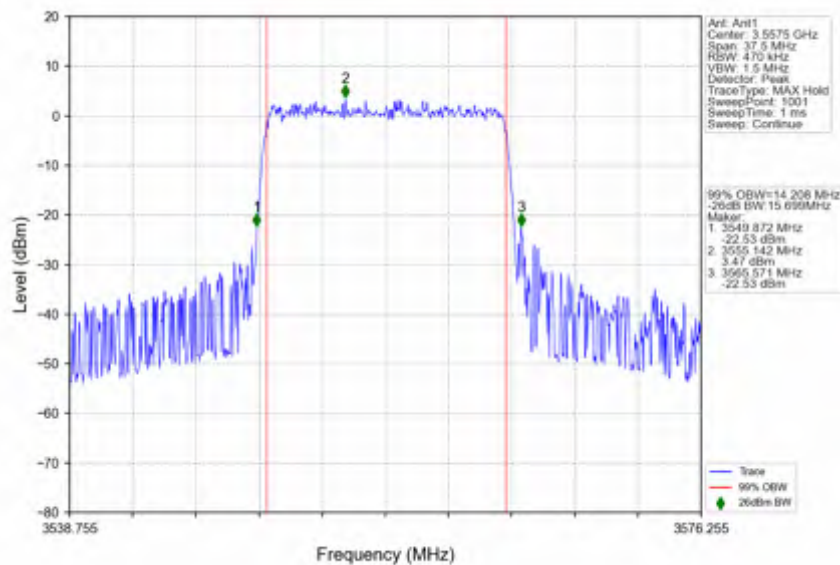
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n78d_15kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_3692.49MHz_Outer_Full



n78d	15kHz	SISO	NTNV	15MHz	CP-OFDM	64 QAM	3557.505MHz	Outer	Full
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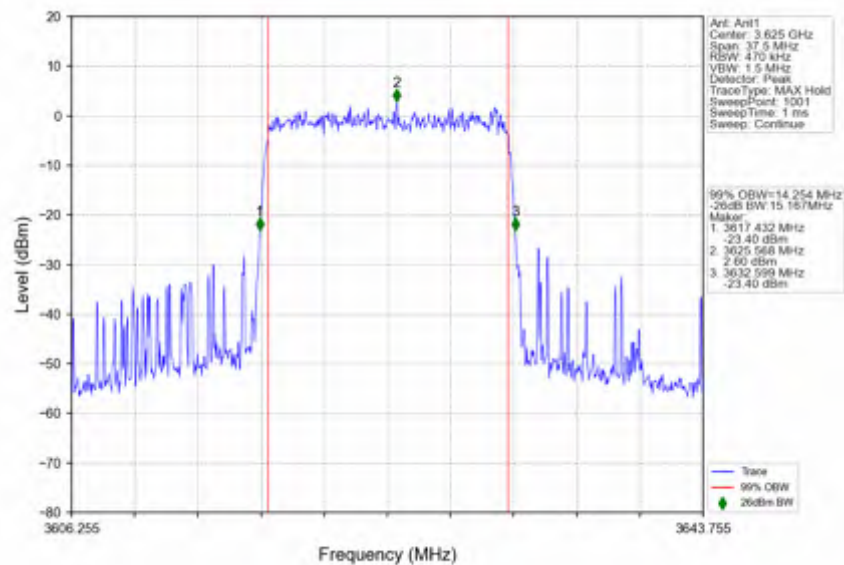


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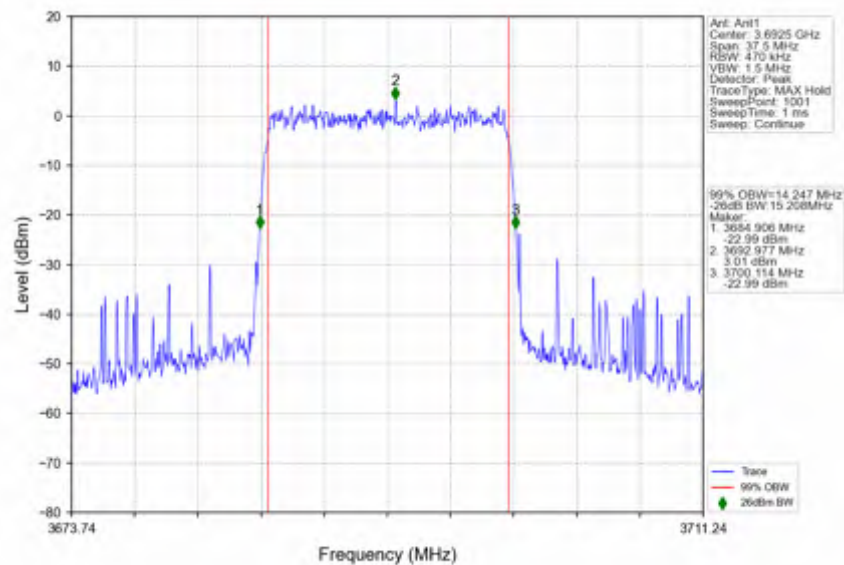
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n78d_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_3625.005MHz_Outer_Full



n78d_15kHz_SISO_NTNV_15MHz_CP-OFDM 64 QAM_3692.49MHz_Outer_Full



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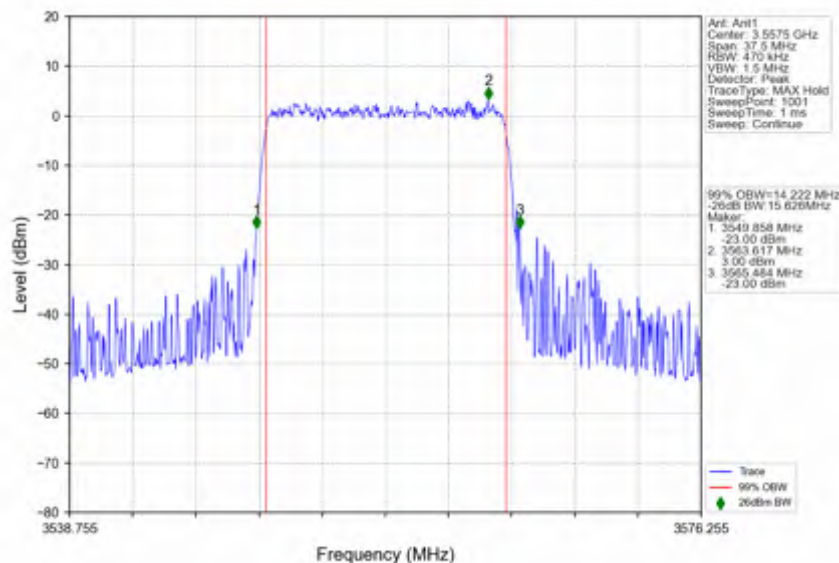
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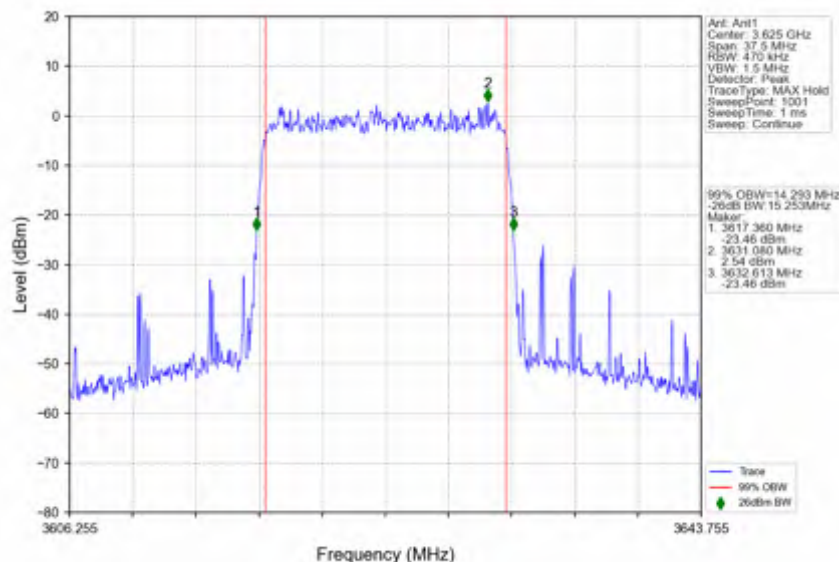
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n78d_15kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_3625.005MHz_Outer_Full



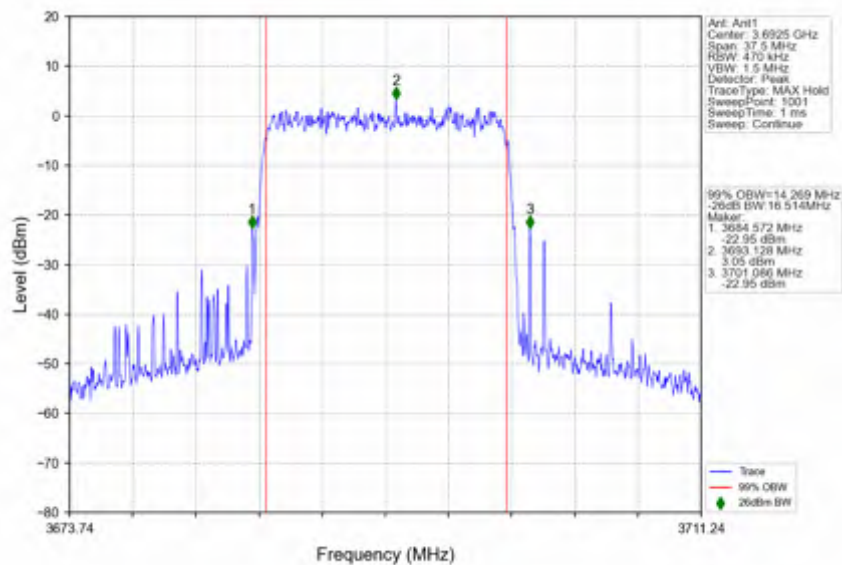
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n78d_15kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_3692.49MHz_Outer_Full



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8.3 15k_SISO_20MHz_NTNV

8.3.1 Test Result

5G NR n78d SCS=15kHz SISO 20MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3560.01	Outer_Full	18.09	19.42	/	Pass
	3625.005	Outer_Full	18.09	19.48	/	Pass
	3690	Outer_Full	18.05	19.36	/	Pass
DFT-s-OFDM QPSK	3560.01	Outer_Full	18.08	19.67	/	Pass
	3625.005	Outer_Full	18.10	19.62	/	Pass
	3690	Outer_Full	18.03	19.94	/	Pass
DFT-s-OFDM 16 QAM	3560.01	Outer_Full	18.13	20.99	/	Pass
	3625.005	Outer_Full	18.13	19.64	/	Pass
	3690	Outer_Full	18.09	19.62	/	Pass
DFT-s-OFDM 64 QAM	3560.01	Outer_Full	18.02	19.61	/	Pass
	3625.005	Outer_Full	18.06	19.59	/	Pass
	3690	Outer_Full	18.03	19.45	/	Pass
DFT-s-OFDM 256 QAM	3560.01	Outer_Full	18.09	20.33	/	Pass
	3625.005	Outer_Full	18.03	19.38	/	Pass
	3690	Outer_Full	18.12	19.34	/	Pass
CP-OFDM QPSK	3560.01	Outer_Full	19.14	21.18	/	Pass
	3625.005	Outer_Full	19.10	20.44	/	Pass
	3690	Outer_Full	19.02	20.53	/	Pass
CP-OFDM 16 QAM	3560.01	Outer_Full	19.09	20.96	/	Pass
	3625.005	Outer_Full	19.06	20.35	/	Pass
	3690	Outer_Full	19.04	20.45	/	Pass
CP-OFDM 64 QAM	3560.01	Outer_Full	19.12	20.59	/	Pass
	3625.005	Outer_Full	19.12	20.50	/	Pass
	3690	Outer_Full	19.02	20.31	/	Pass
CP-OFDM 256 QAM	3560.01	Outer_Full	19.08	20.50	/	Pass
	3625.005	Outer_Full	19.10	20.52	/	Pass
	3690	Outer_Full	19.02	20.41	/	Pass



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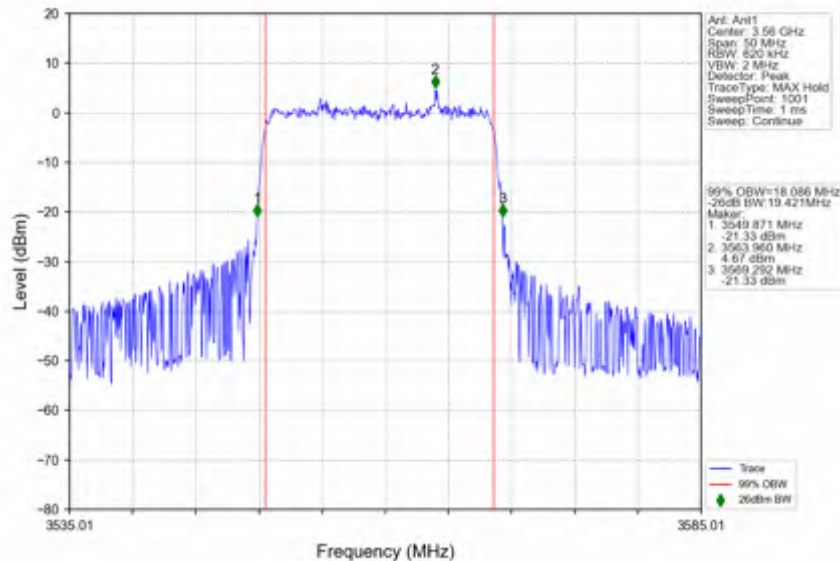
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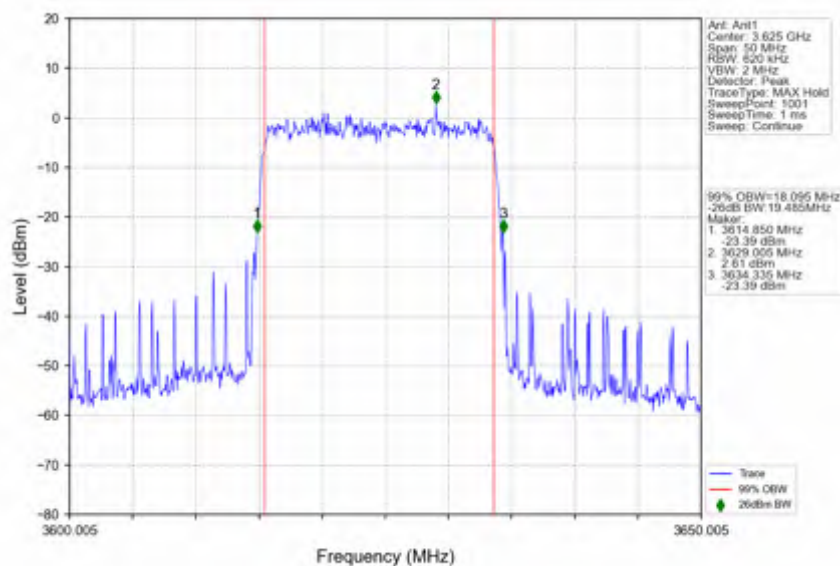
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8.3.2 Test Graph

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n78d_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3625.005MHz_Outer_Full



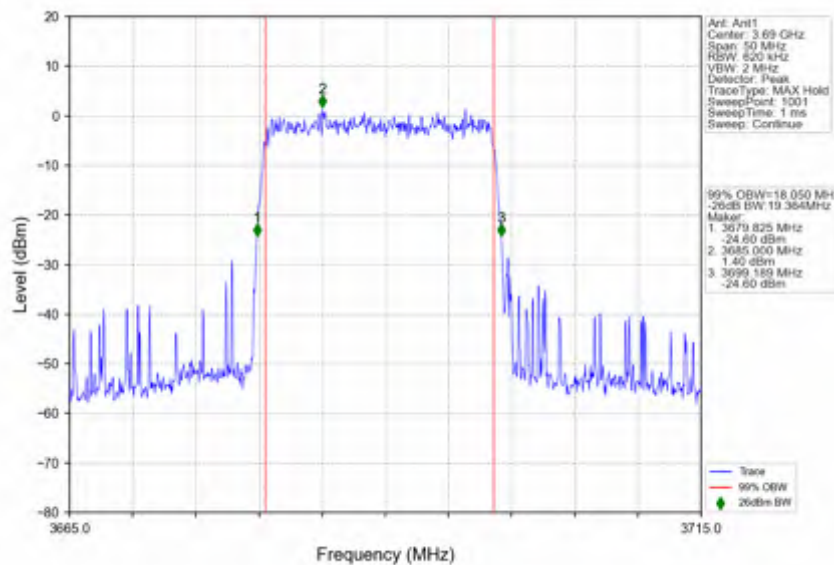
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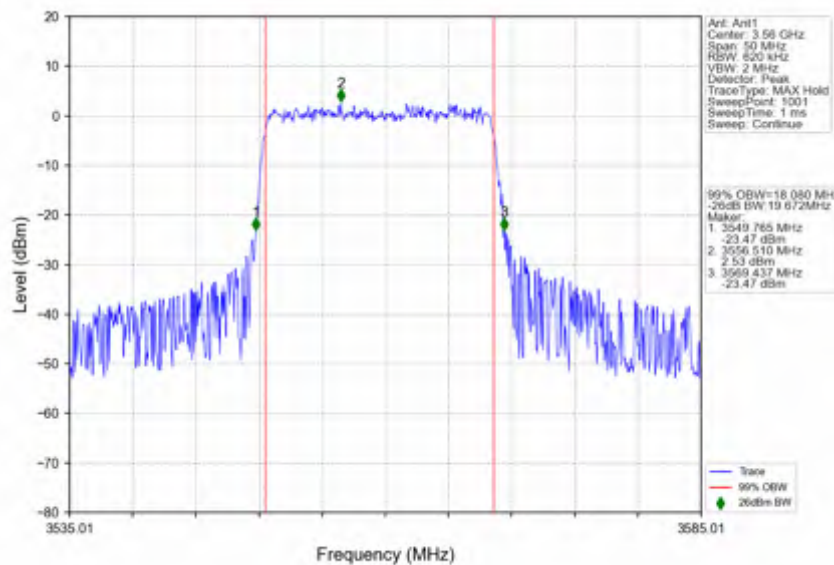
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n78d_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3560.01MHz_Outer_Full



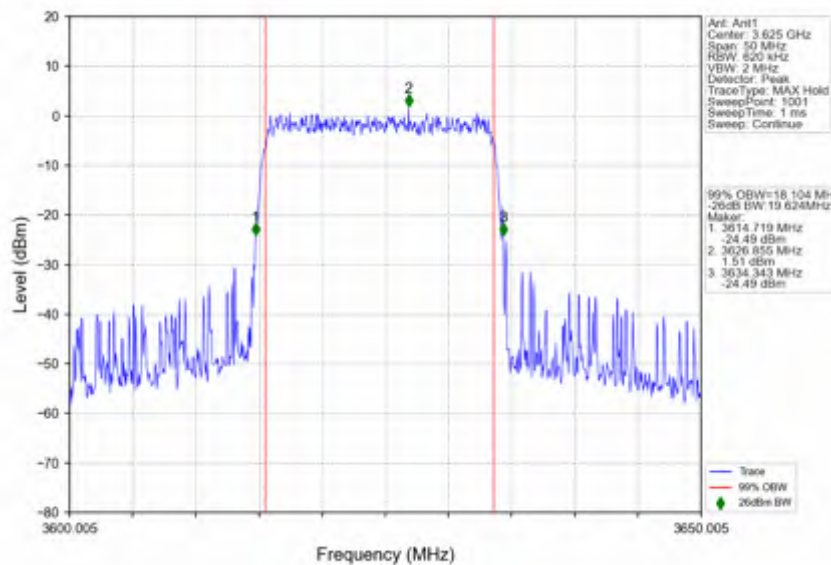
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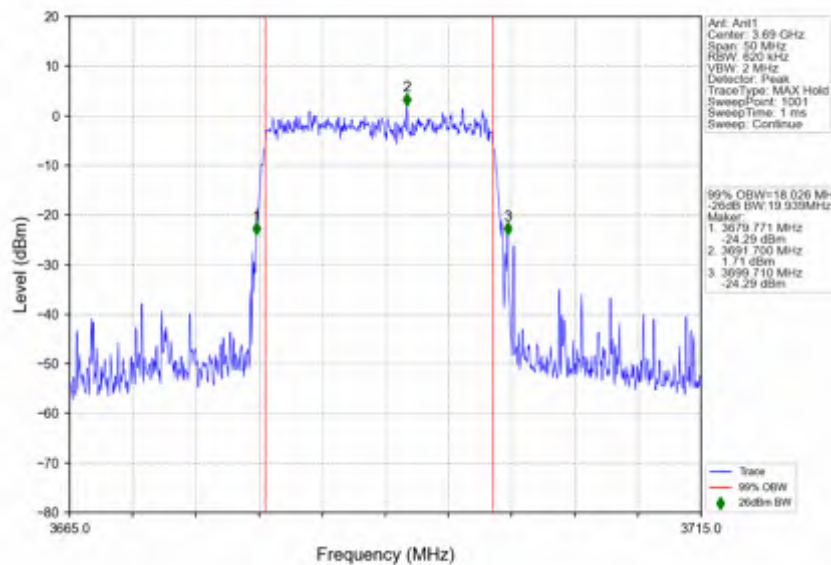
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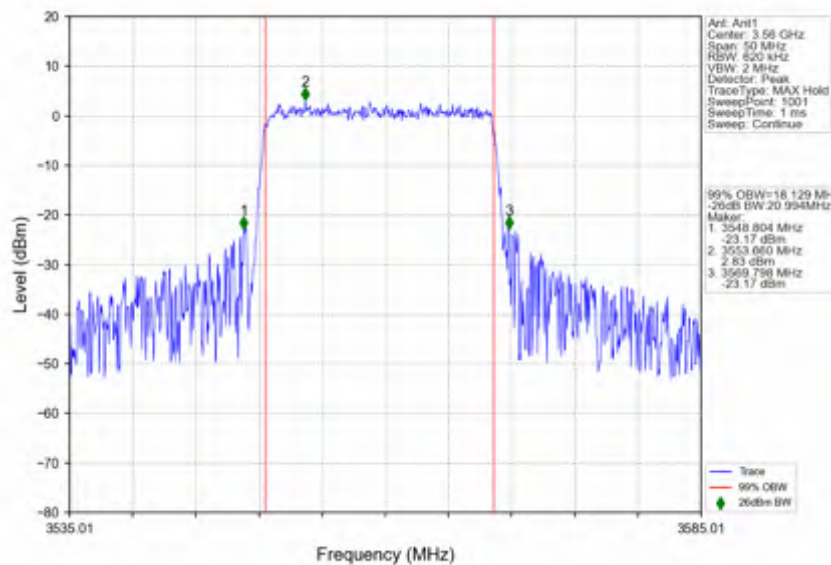
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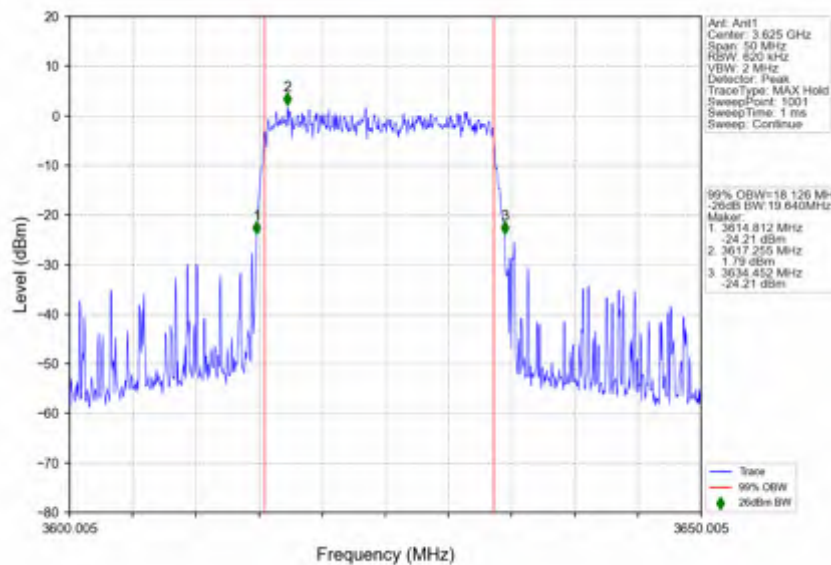
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