

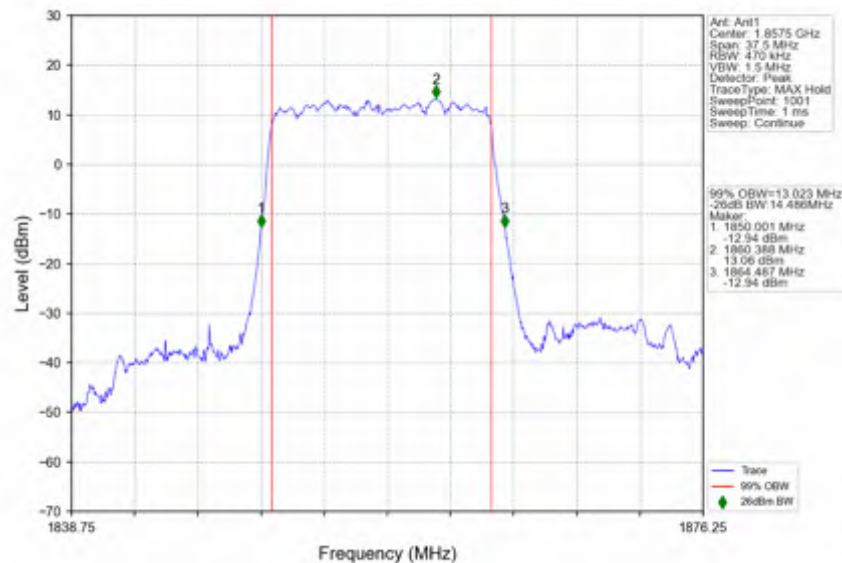
4.9 30k_SISO_15MHz_NTNV

4.9.1 Test Result

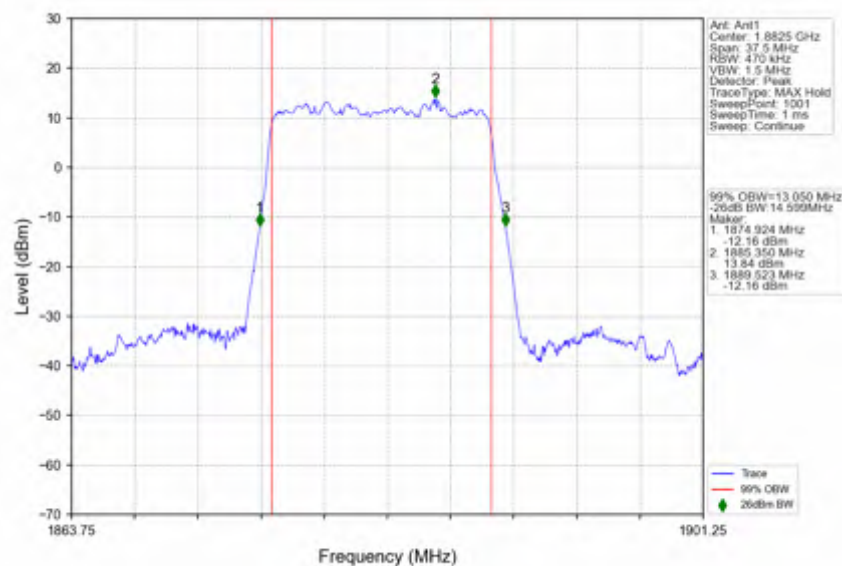
5G NR n25 SCS=30kHz SISO 15MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1857.5	Outer_Full	13.02	14.49	/	Pass
	1882.5	Outer_Full	13.05	14.60	/	Pass
	1907.5	Outer_Full	13.01	14.51	/	Pass
DFT-s-OFDM QPSK	1857.5	Outer_Full	13.04	14.59	/	Pass
	1882.5	Outer_Full	13.03	14.53	/	Pass
	1907.5	Outer_Full	13.00	14.51	/	Pass
DFT-s-OFDM 16 QAM	1857.5	Outer_Full	13.03	14.48	/	Pass
	1882.5	Outer_Full	13.07	14.67	/	Pass
	1907.5	Outer_Full	13.03	14.60	/	Pass
DFT-s-OFDM 64 QAM	1857.5	Outer_Full	13.02	14.52	/	Pass
	1882.5	Outer_Full	13.04	14.56	/	Pass
	1907.5	Outer_Full	13.01	14.48	/	Pass
DFT-s-OFDM 256 QAM	1857.5	Outer_Full	12.99	14.40	/	Pass
	1882.5	Outer_Full	13.10	14.59	/	Pass
	1907.5	Outer_Full	13.05	14.45	/	Pass
CP-OFDM QPSK	1857.5	Outer_Full	13.69	15.16	/	Pass
	1882.5	Outer_Full	13.74	14.98	/	Pass
	1907.5	Outer_Full	13.69	15.18	/	Pass
CP-OFDM 16 QAM	1857.5	Outer_Full	13.70	15.03	/	Pass
	1882.5	Outer_Full	13.73	15.11	/	Pass
	1907.5	Outer_Full	13.68	15.17	/	Pass
CP-OFDM 64 QAM	1857.5	Outer_Full	13.71	15.20	/	Pass
	1882.5	Outer_Full	13.72	15.03	/	Pass
	1907.5	Outer_Full	13.69	15.07	/	Pass
CP-OFDM 256 QAM	1857.5	Outer_Full	13.65	15.18	/	Pass
	1882.5	Outer_Full	13.75	15.04	/	Pass
	1907.5	Outer_Full	13.72	15.02	/	Pass

4.9.2 Test Graph

n25_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1857.5MHz_Outer_Full



n25_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1882.5MHz_Outer_Full



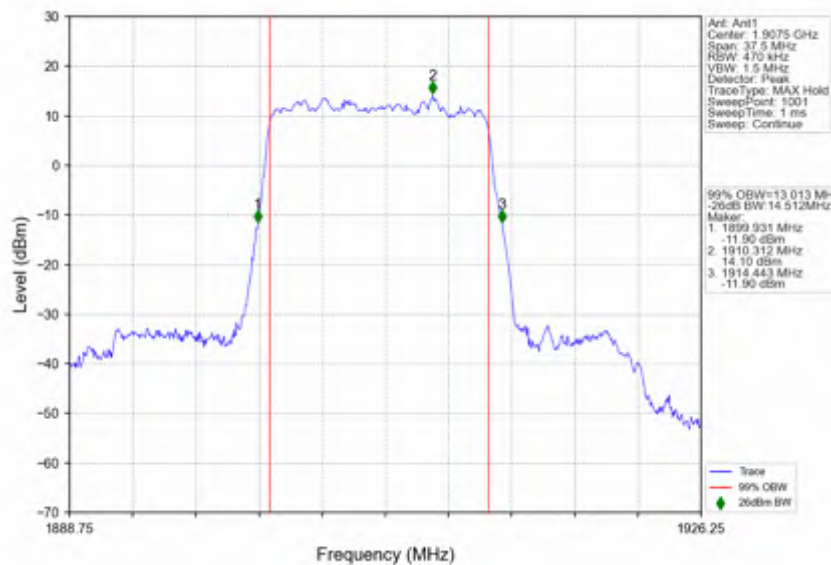
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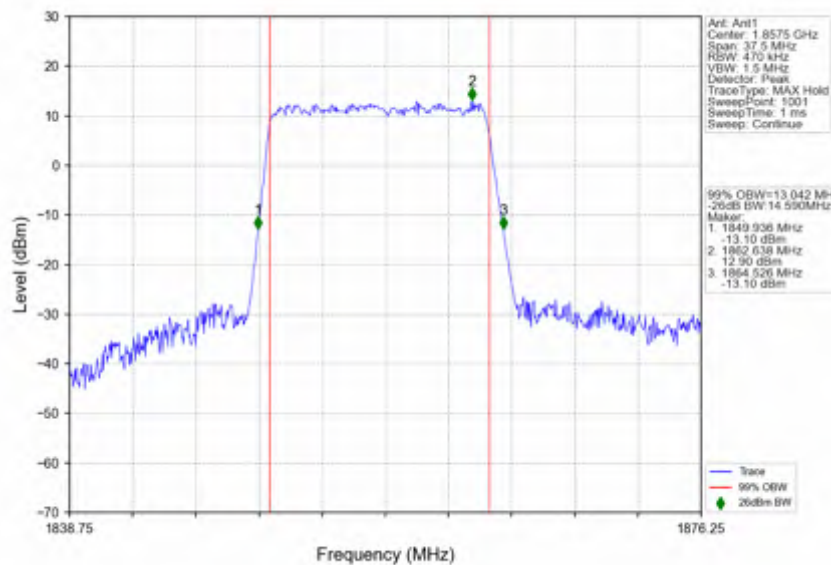
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n25_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1907.5MHz_Outer_Full



n25_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_1857.5MHz_Outer_Full



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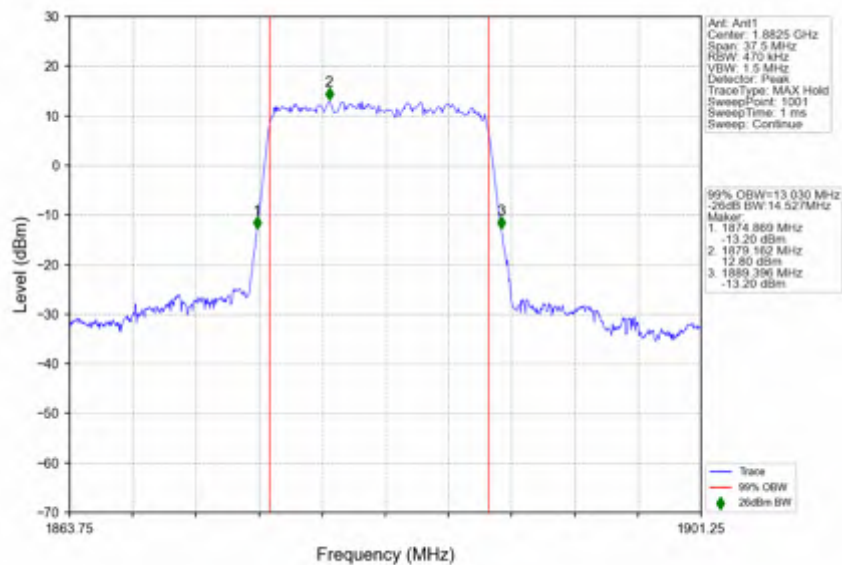
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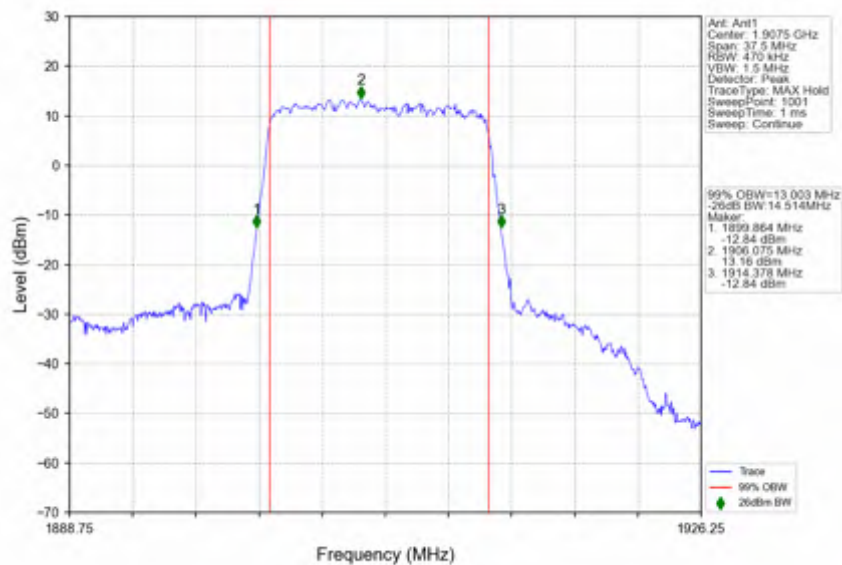
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n25 30kHz SISO NTN 15MHz DFT-s-OFDM QPSK 1882.5MHz Outer Full



n25	30kHz	SISO	NTNV	15MHz	DFT-s-OFDM	QPSK	1907.5MHz	Outer	Full
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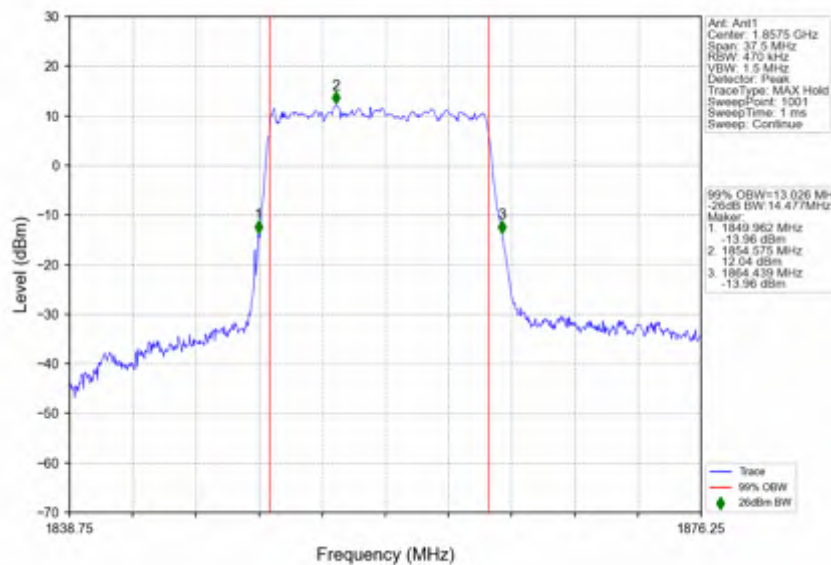


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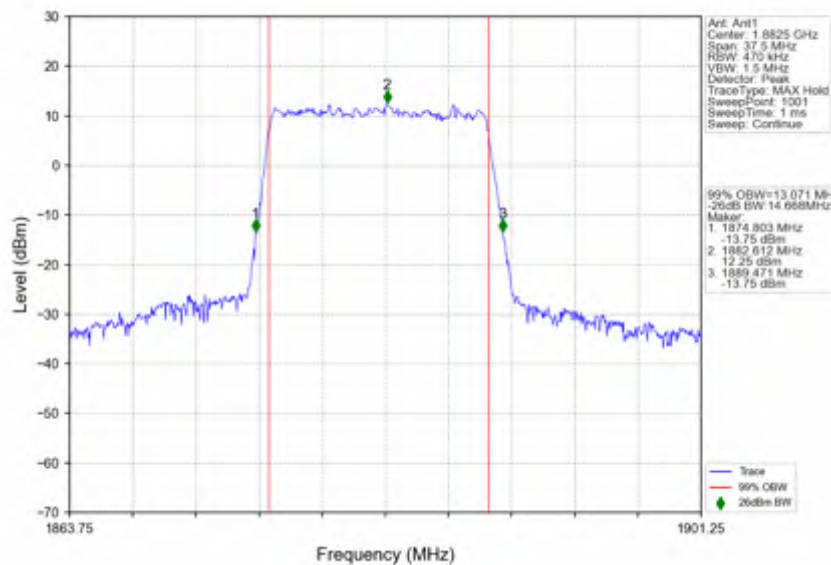
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n25_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16_QAM_1882.5MHz_Outer_Full



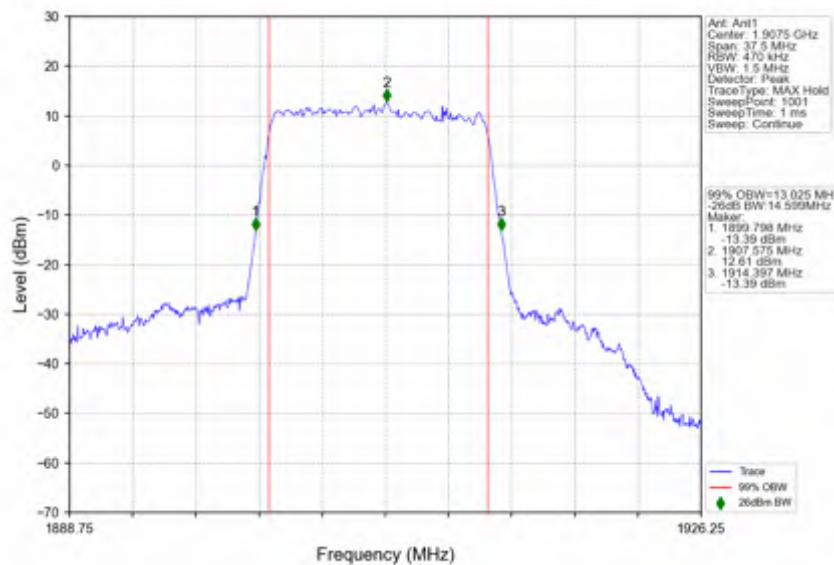
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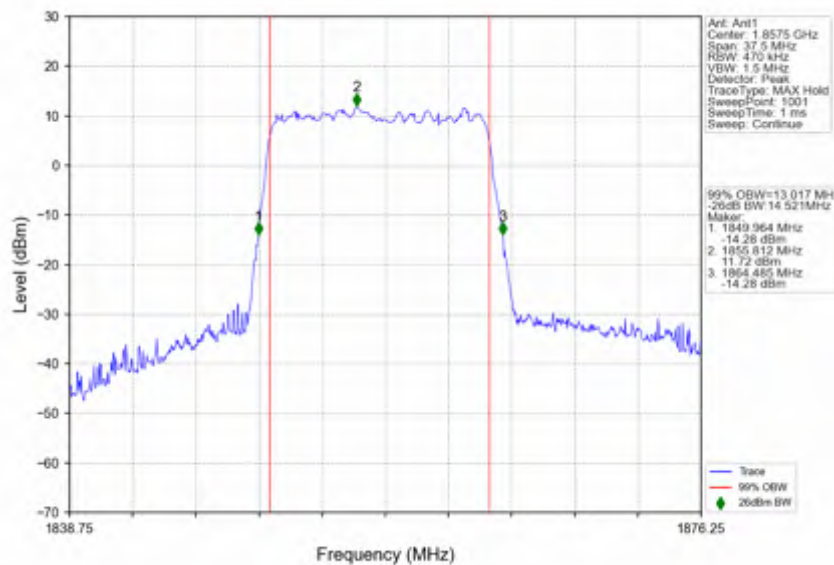
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n25_30kHz_SISO_NTV_15MHz_DFT-s-OFDM 16 QAM_1907.5MHz_Outer_Full



n25_30kHz_SISO_NTV_15MHz_DFT-s-OFDM 64 QAM_1857.5MHz_Outer_Full



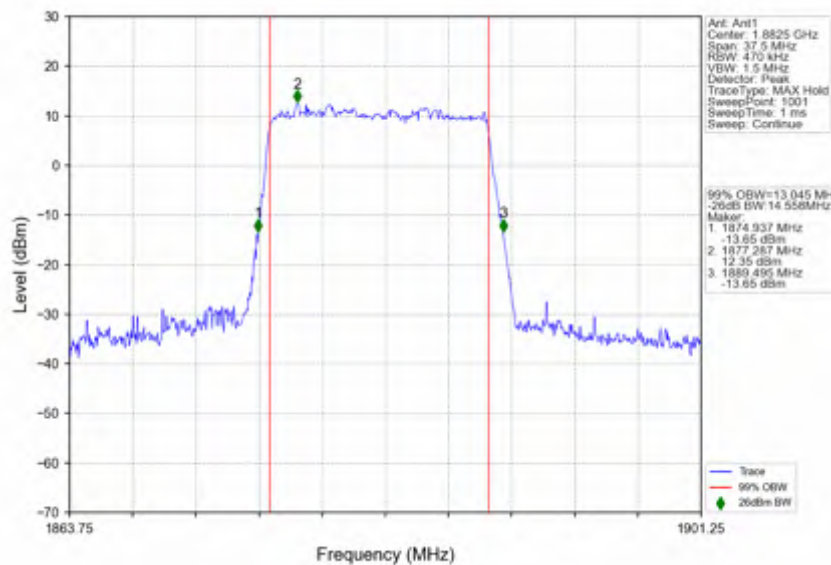
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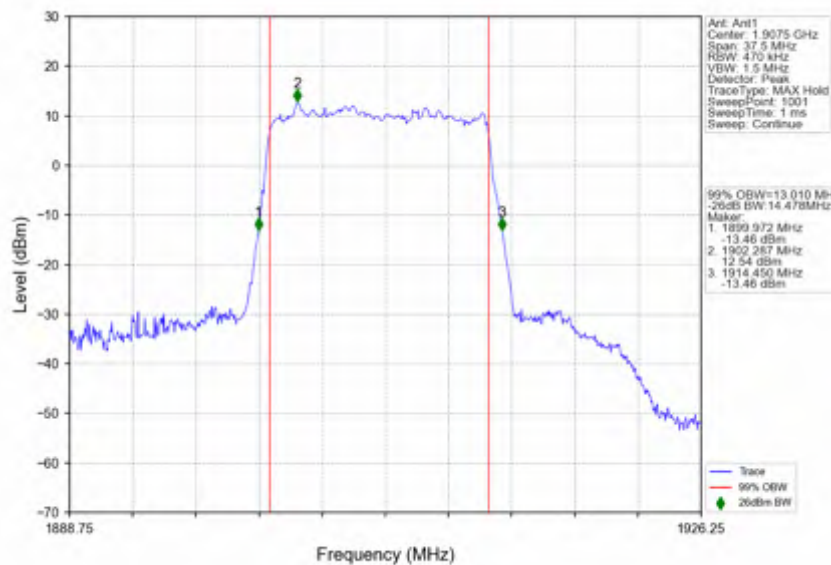
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n25_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_64_QAM_1907.5MHz_Outer_Full

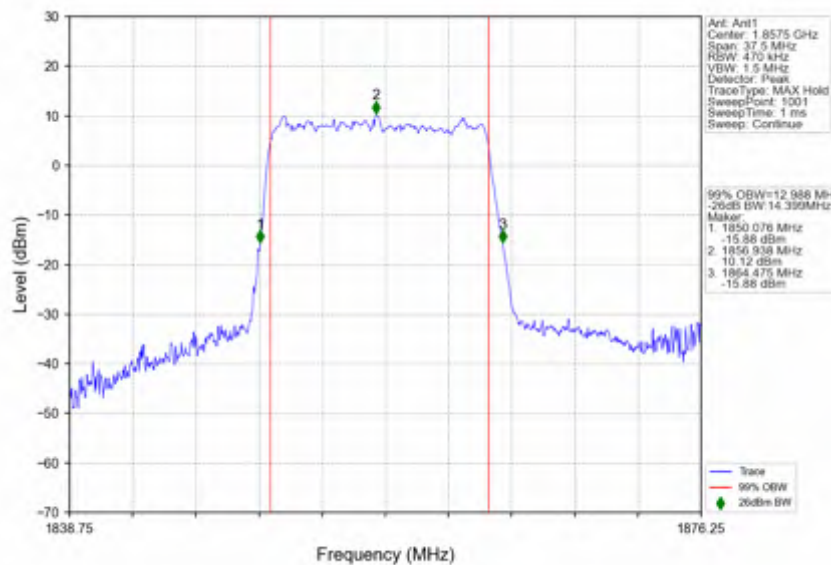


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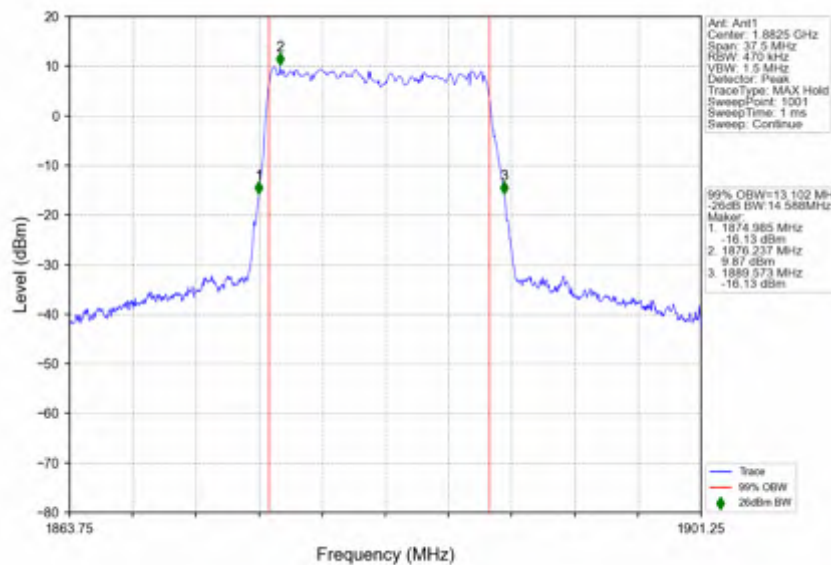
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n25_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_1857.5MHz_Outer_Full



n25_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_1882.5MHz_Outer_Full

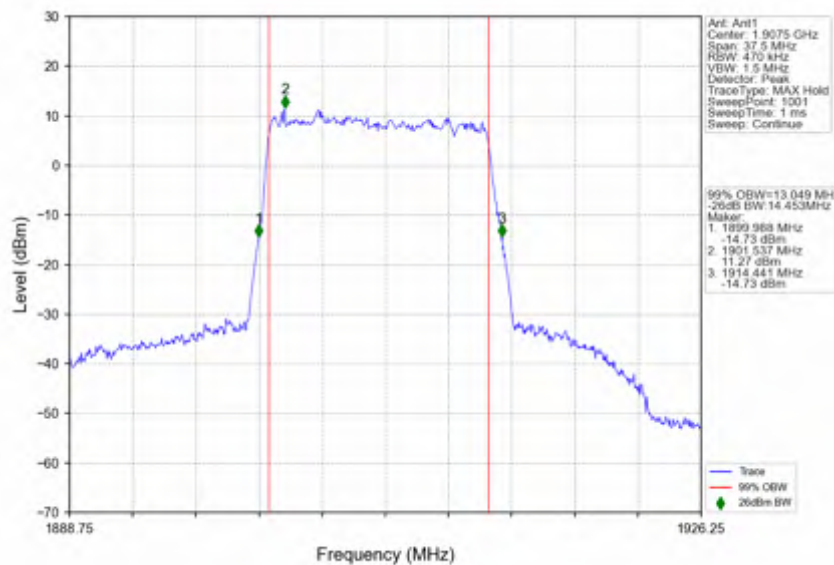


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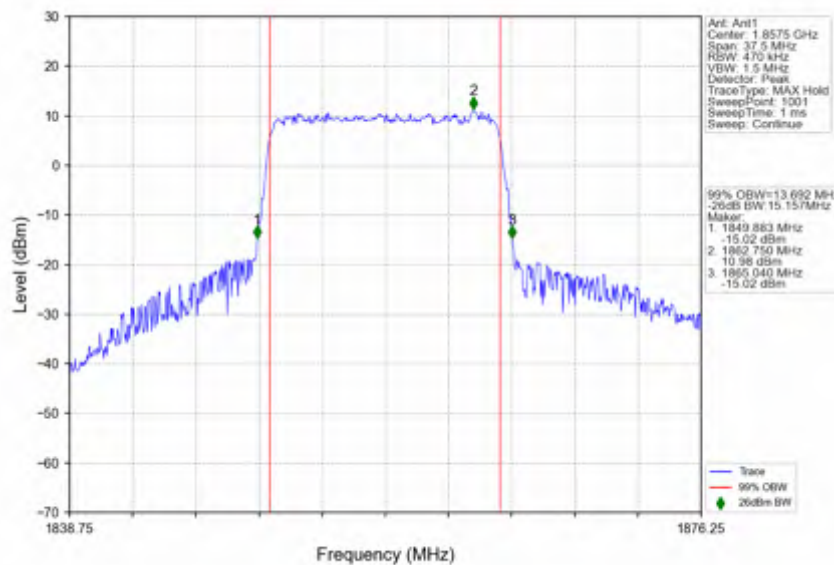
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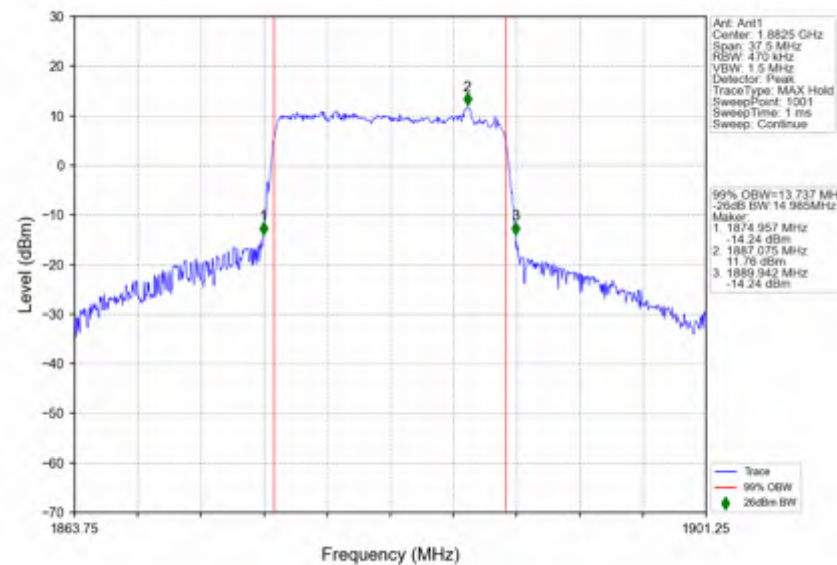
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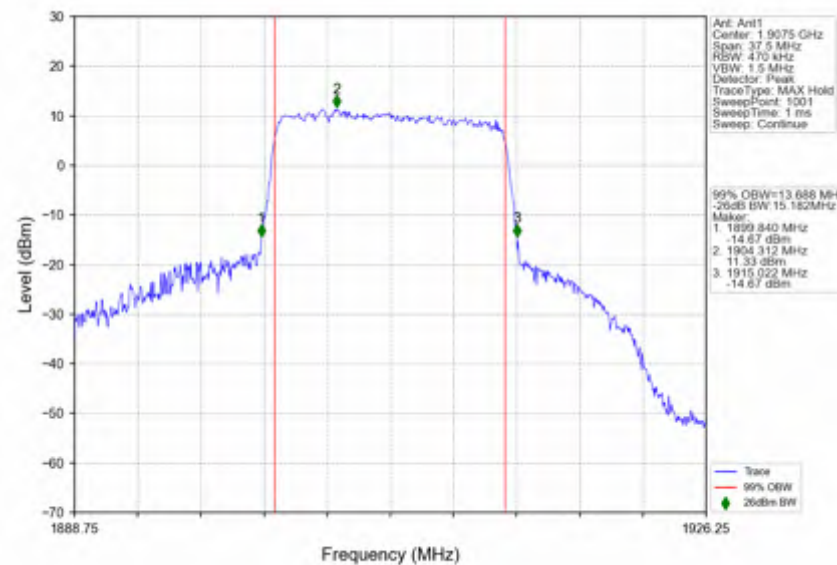
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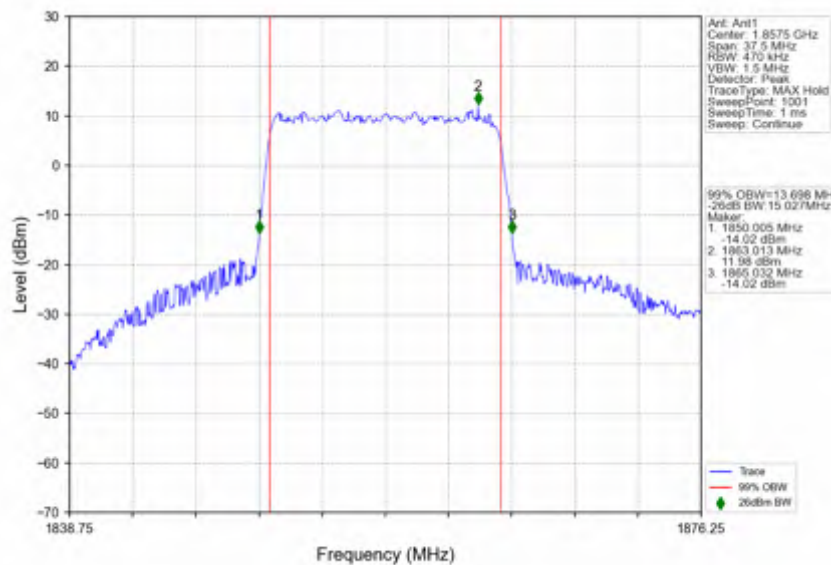
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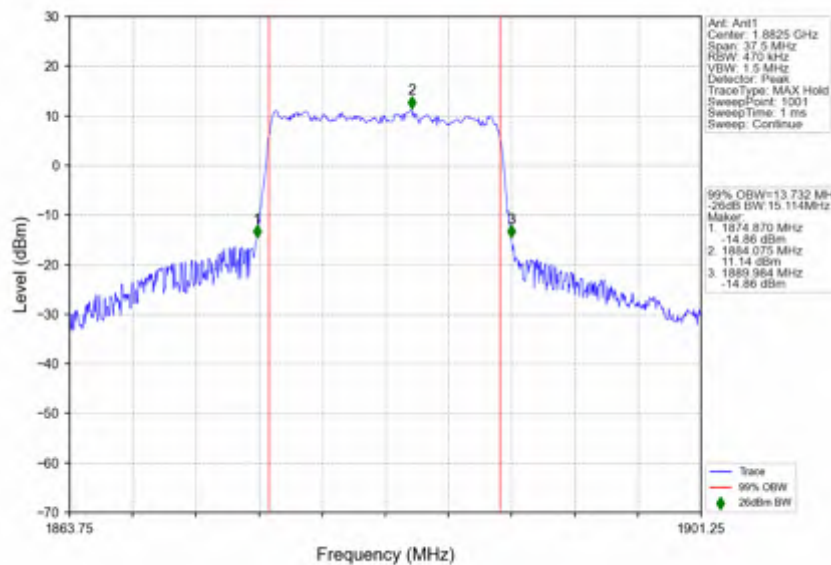
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n25	30kHz	SISO	NTNV	15MHz	CP-OFDM	16 QAM	1882.5MHz	Outer	Full
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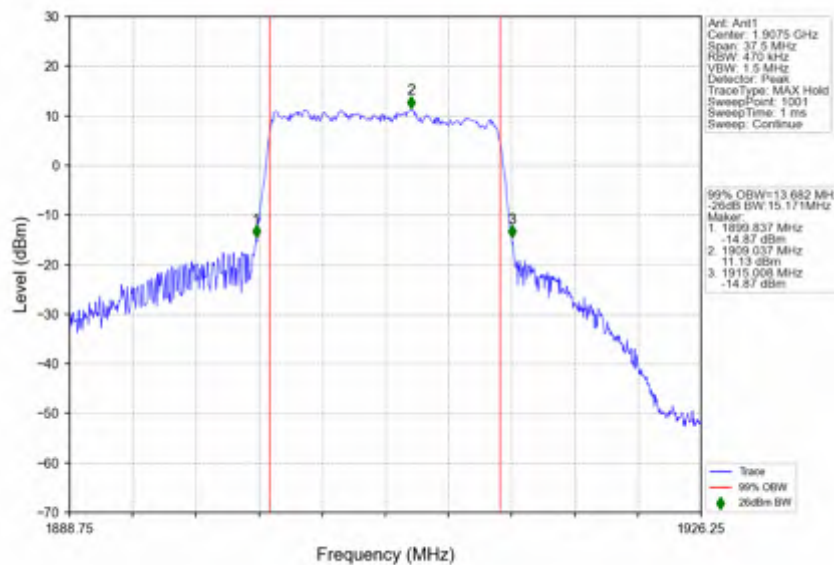


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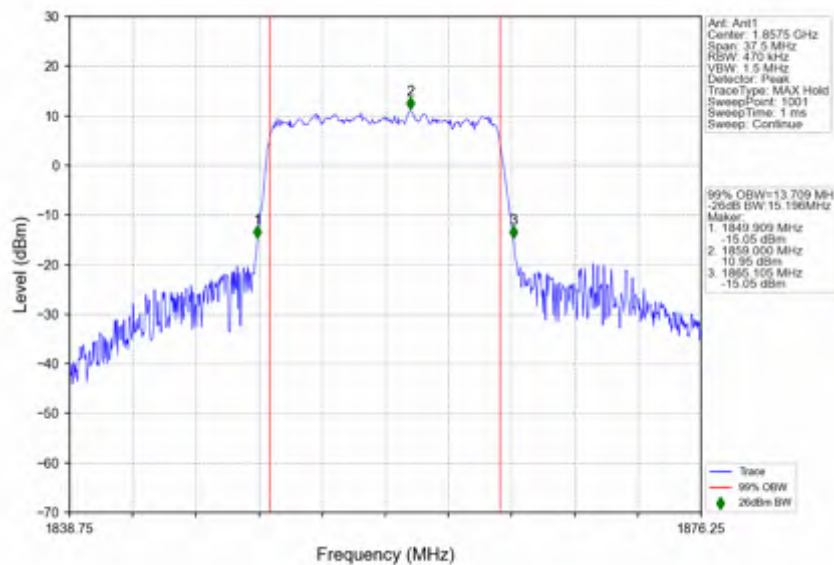
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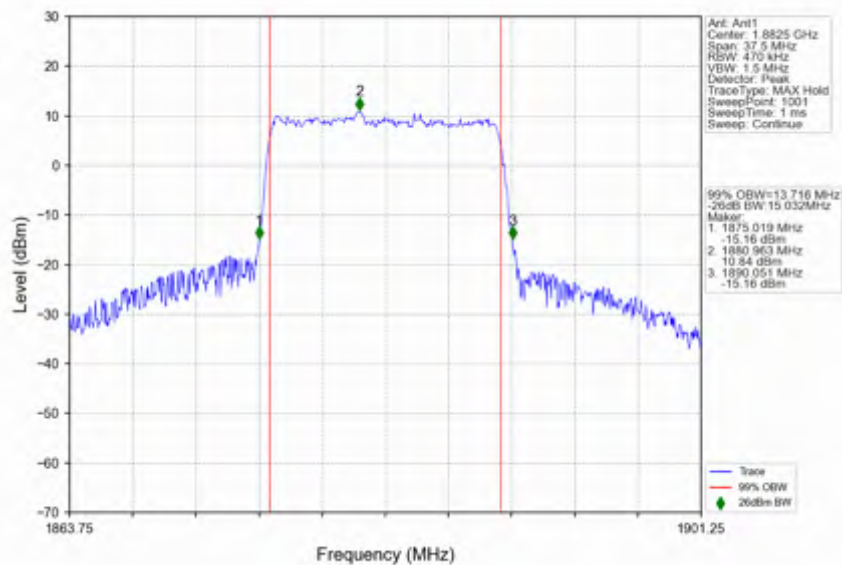
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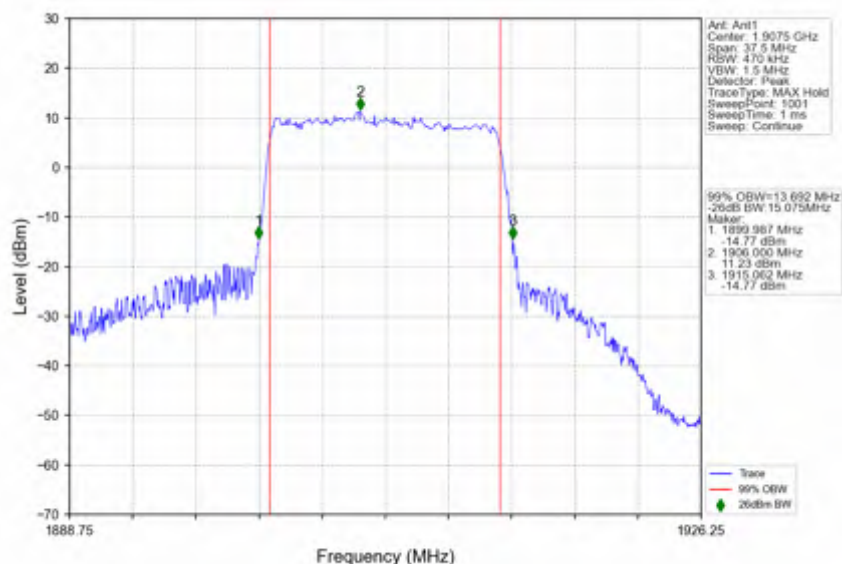
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n25_30kHz_SISO_NTNV_15MHz_CP-OFDM_64_QAM_1882.5MHz_Outer_Full



n25	30kHz	SISO	NTNV	15MHz	CP-OFDM	64 QAM	1907.5MHz	Outer	Full
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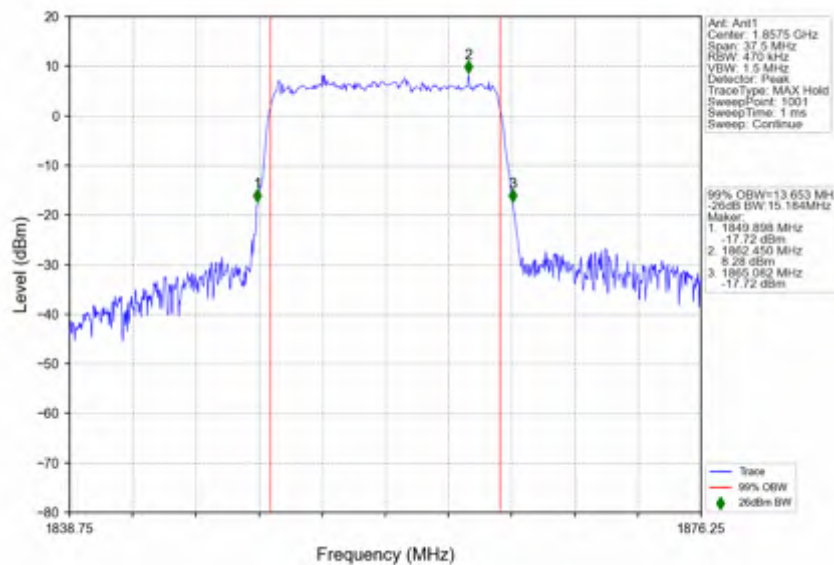


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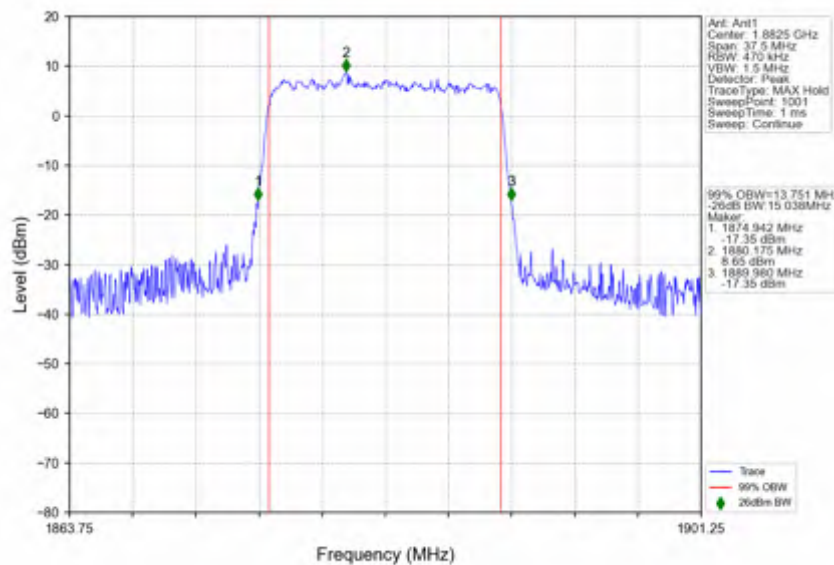
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n25	30kHz	SISO	NTNV	15MHz	CP-OFDM	256	QAM	1857.5MHz	Outer	Full
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n25 30kHz SISO NTVN 15MHz CP-OFDM 256 QAM 1882.5MHz Outer Full

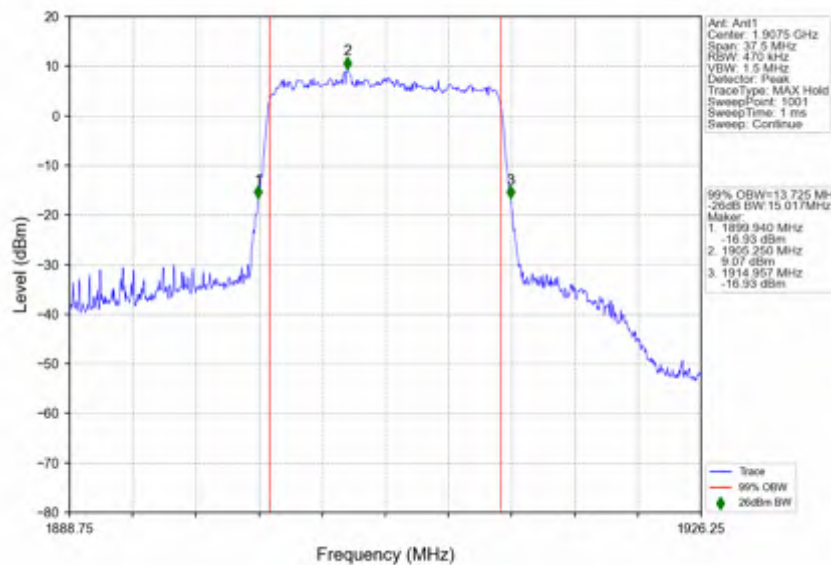


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n25_30kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_1907.5MHz_Outer_Full



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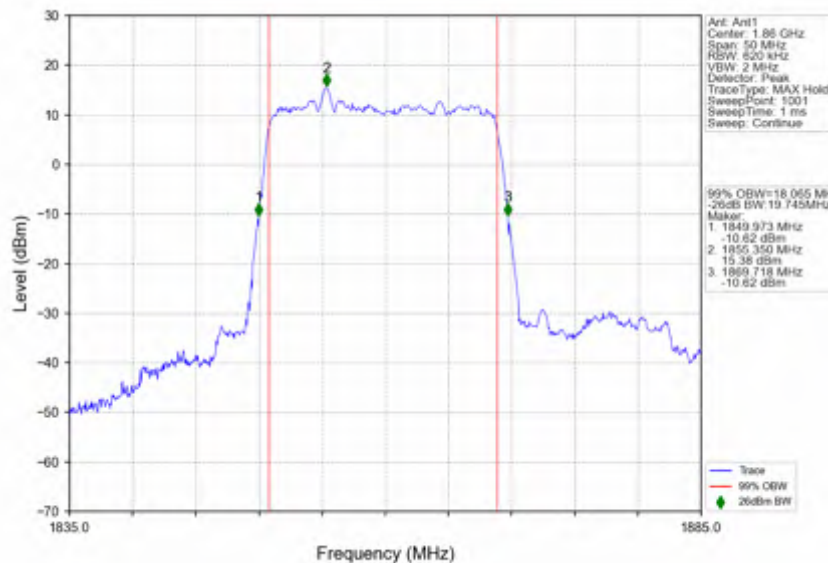
4.10 30k_SISO_20MHz_NTNV

4.10.1 Test Result

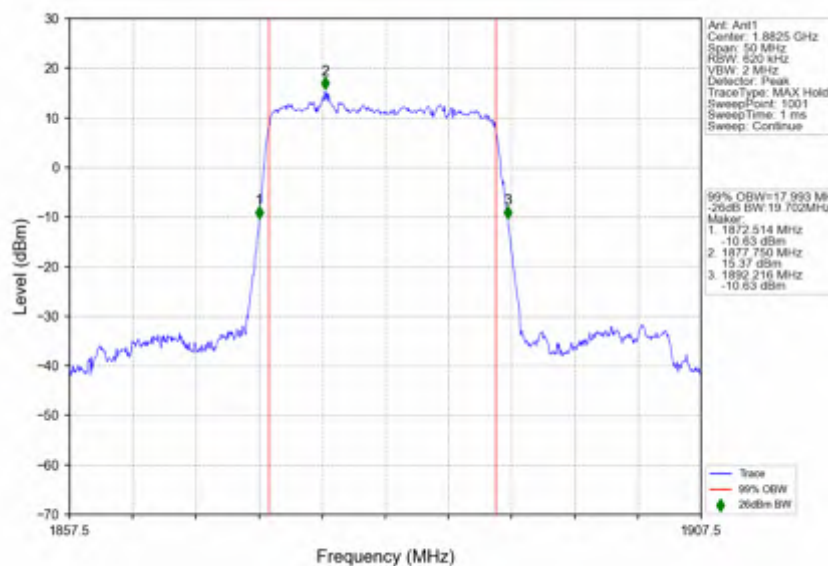
5G NR n25 SCS=30kHz SISO 20MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1860	Outer_Full	18.07	19.75	/	Pass
	1882.5	Outer_Full	17.99	19.70	/	Pass
	1905	Outer_Full	17.96	19.56	/	Pass
DFT-s-OFDM QPSK	1860	Outer_Full	18.14	19.95	/	Pass
	1882.5	Outer_Full	18.09	19.80	/	Pass
	1905	Outer_Full	17.96	19.63	/	Pass
DFT-s-OFDM 16 QAM	1860	Outer_Full	17.99	19.84	/	Pass
	1882.5	Outer_Full	18.00	19.85	/	Pass
	1905	Outer_Full	17.92	19.71	/	Pass
DFT-s-OFDM 64 QAM	1860	Outer_Full	18.06	19.79	/	Pass
	1882.5	Outer_Full	18.04	19.82	/	Pass
	1905	Outer_Full	18.03	19.72	/	Pass
DFT-s-OFDM 256 QAM	1860	Outer_Full	18.02	19.83	/	Pass
	1882.5	Outer_Full	17.97	19.76	/	Pass
	1905	Outer_Full	17.96	19.82	/	Pass
CP-OFDM QPSK	1860	Outer_Full	18.31	20.17	/	Pass
	1882.5	Outer_Full	18.32	20.02	/	Pass
	1905	Outer_Full	18.28	20.14	/	Pass
CP-OFDM 16 QAM	1860	Outer_Full	18.43	20.12	/	Pass
	1882.5	Outer_Full	18.42	20.11	/	Pass
	1905	Outer_Full	18.38	20.17	/	Pass
CP-OFDM 64 QAM	1860	Outer_Full	18.34	20.15	/	Pass
	1882.5	Outer_Full	18.34	20.12	/	Pass
	1905	Outer_Full	18.31	19.96	/	Pass
CP-OFDM 256 QAM	1860	Outer_Full	18.36	20.32	/	Pass
	1882.5	Outer_Full	18.34	20.20	/	Pass
	1905	Outer_Full	18.32	20.13	/	Pass

4.10.2 Test Graph

n25_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_PI/2_BPSK_1860MHz_Outer_Full



n25_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_PI/2_BPSK_1882.5MHz_Outer_Full



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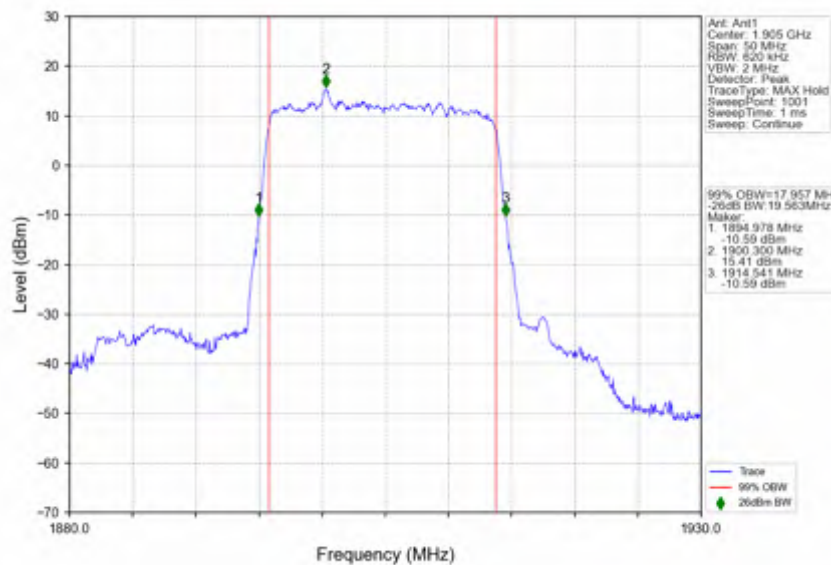
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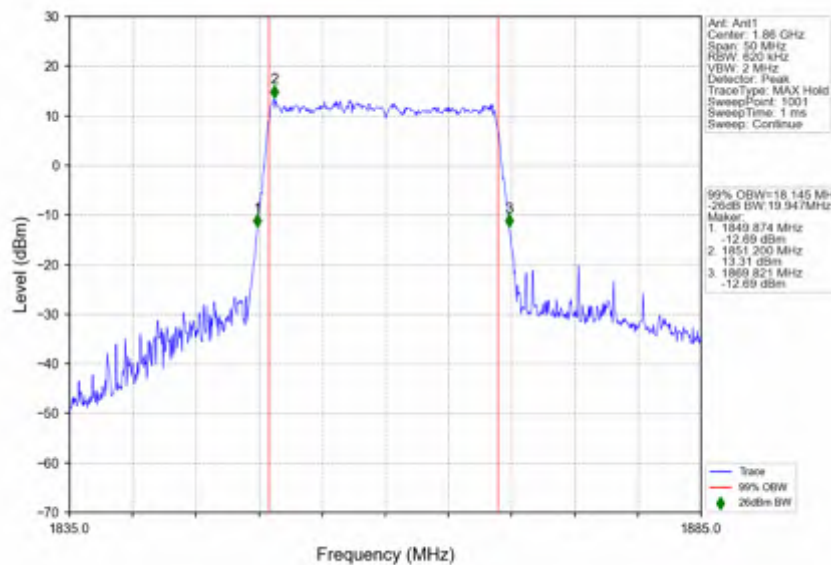
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n25_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_1905MHz_Outer_Full



n25_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_1860MHz_Outer_Full



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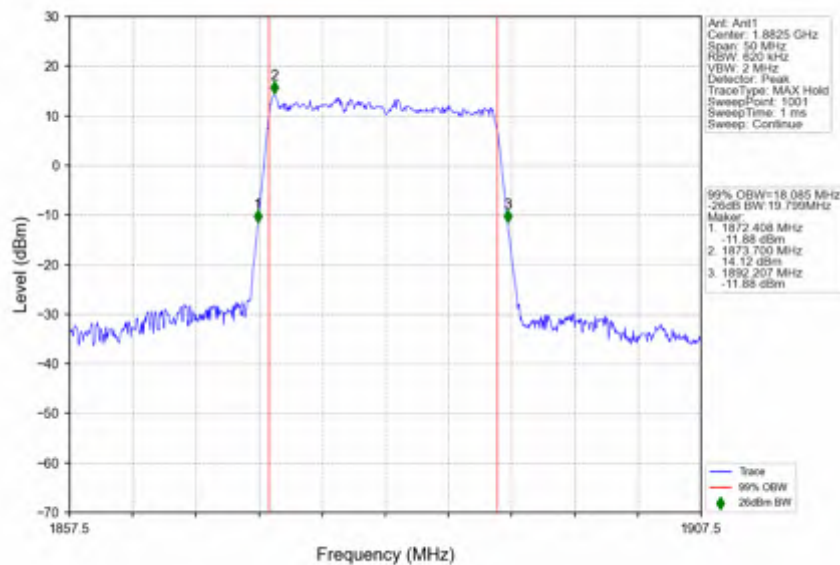
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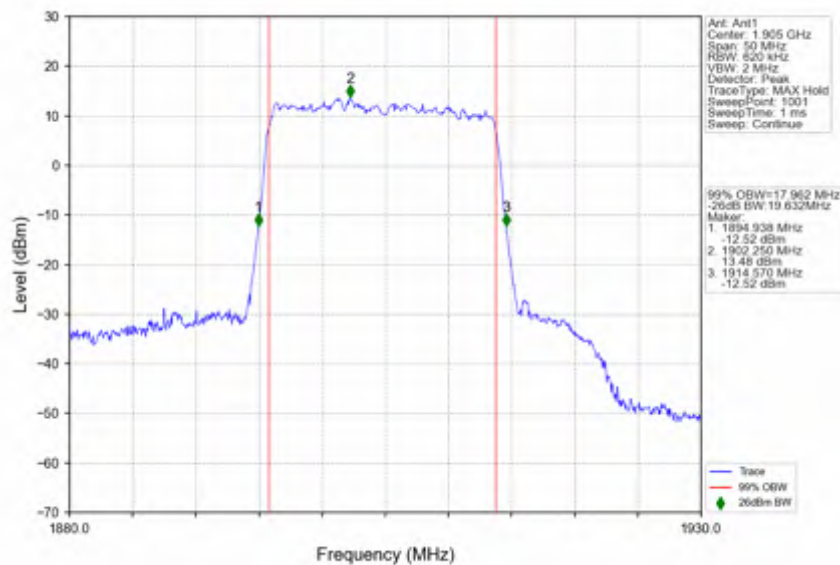
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n25_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_1905MHz_Outer_Full



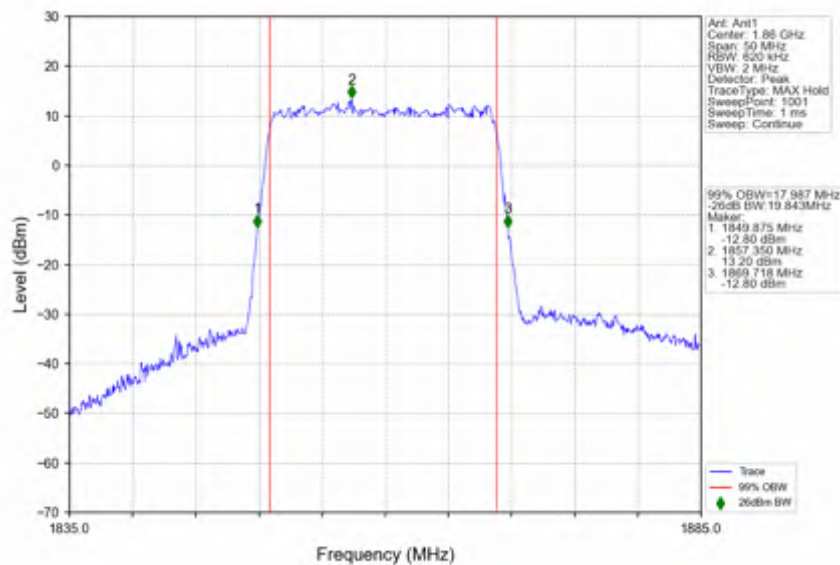
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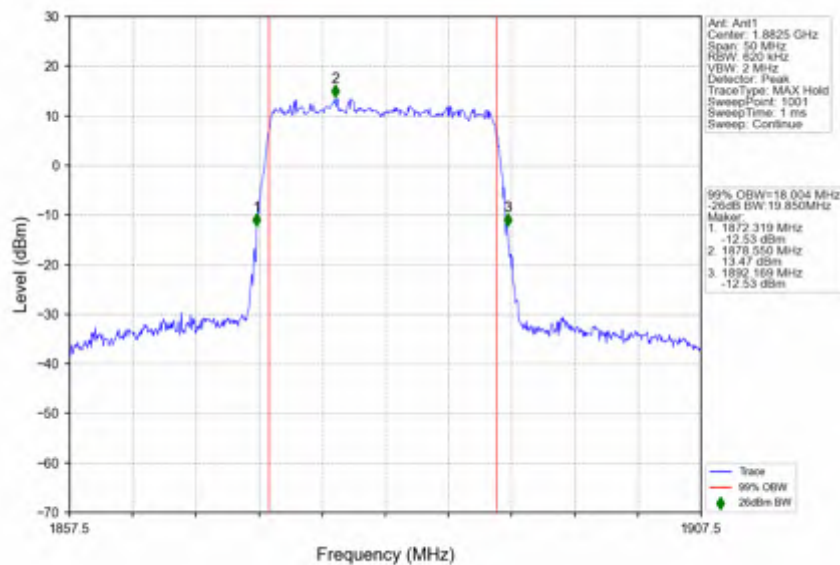
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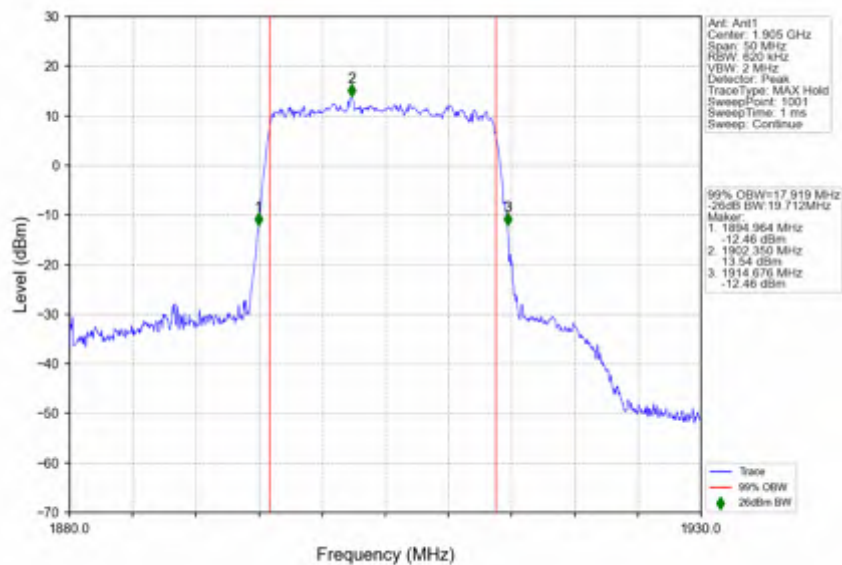
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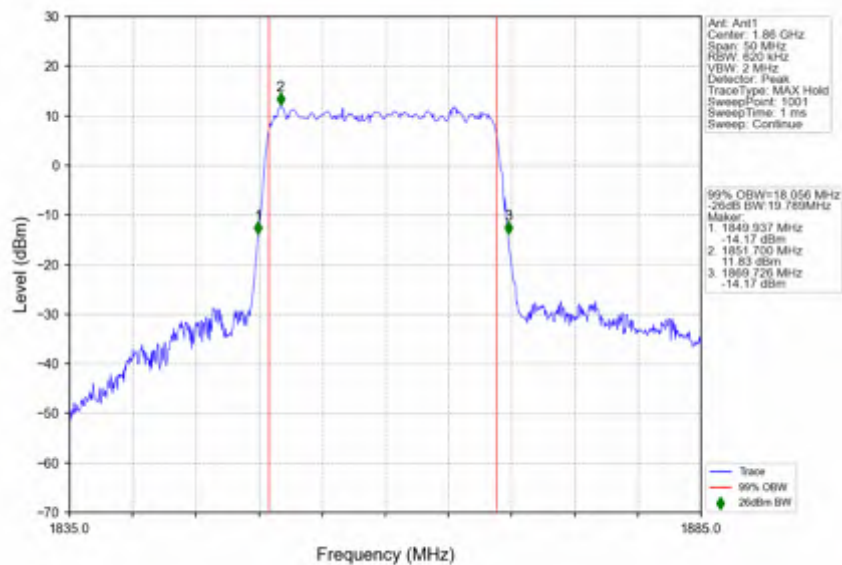
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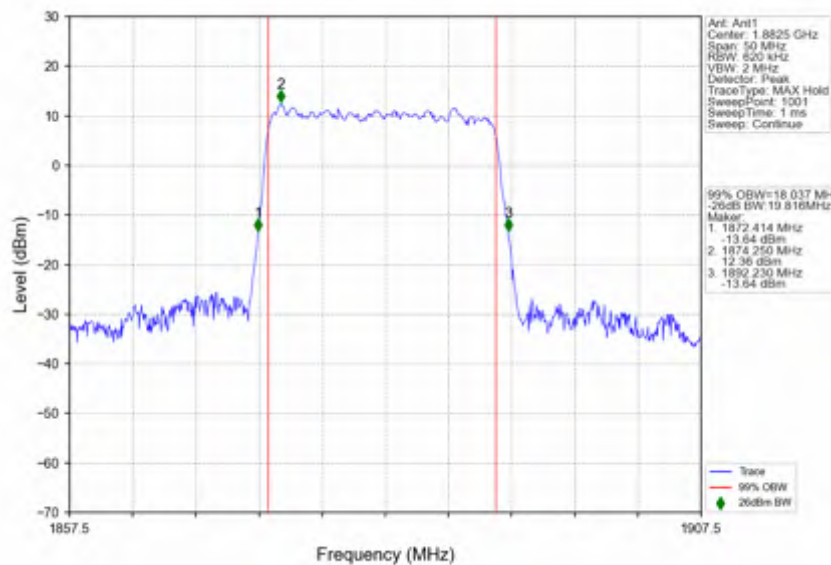


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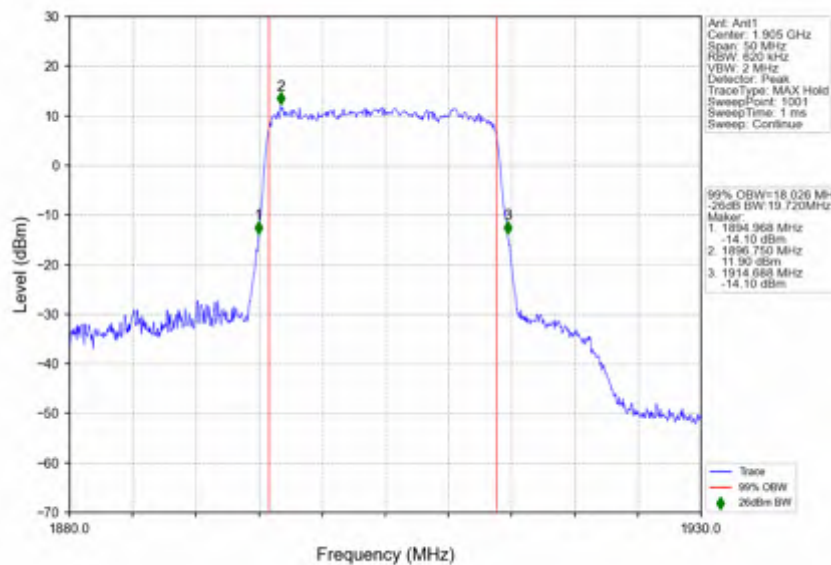
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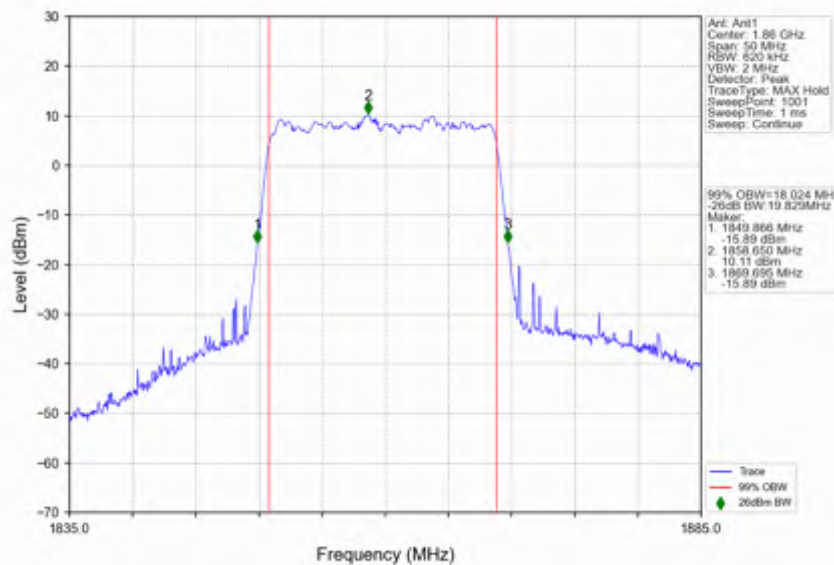
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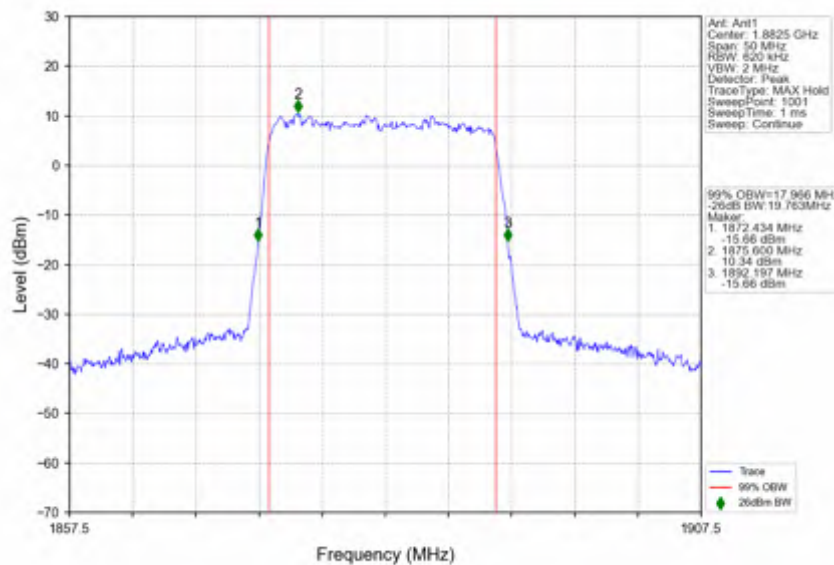
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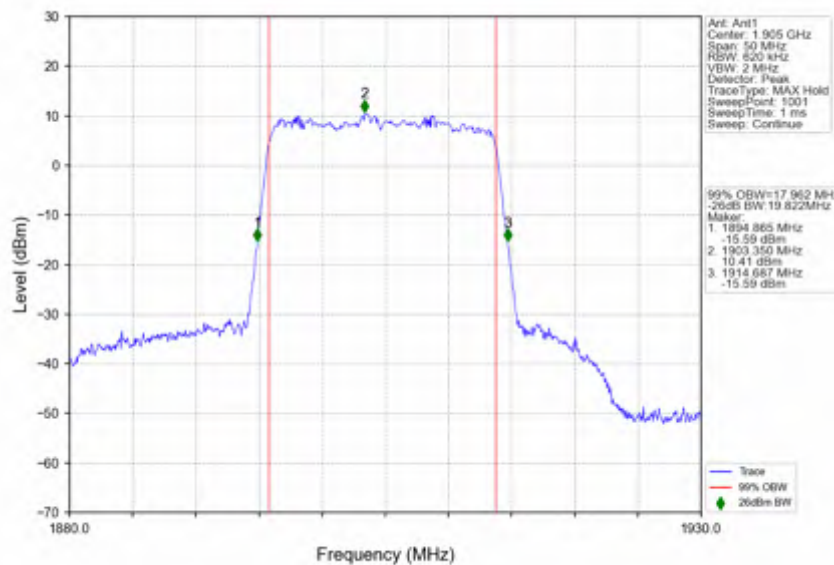


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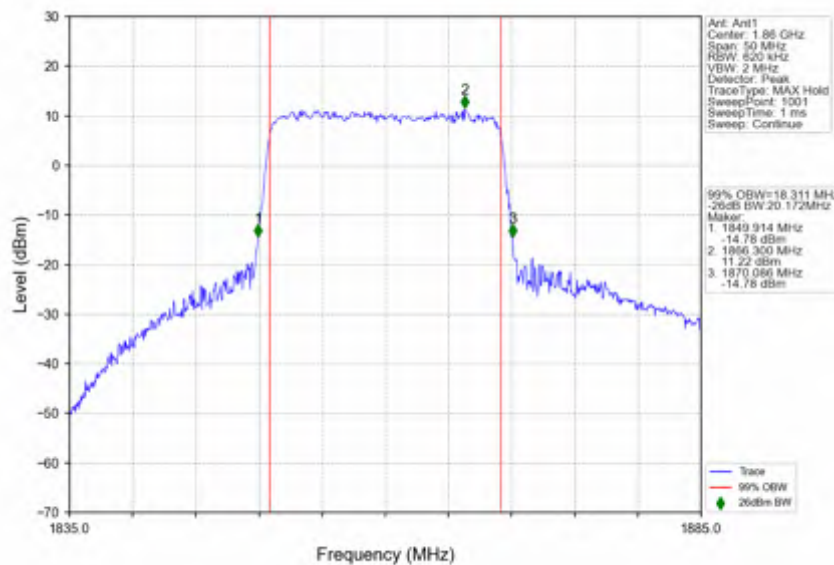
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n25_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_1860MHz_Outer_Full



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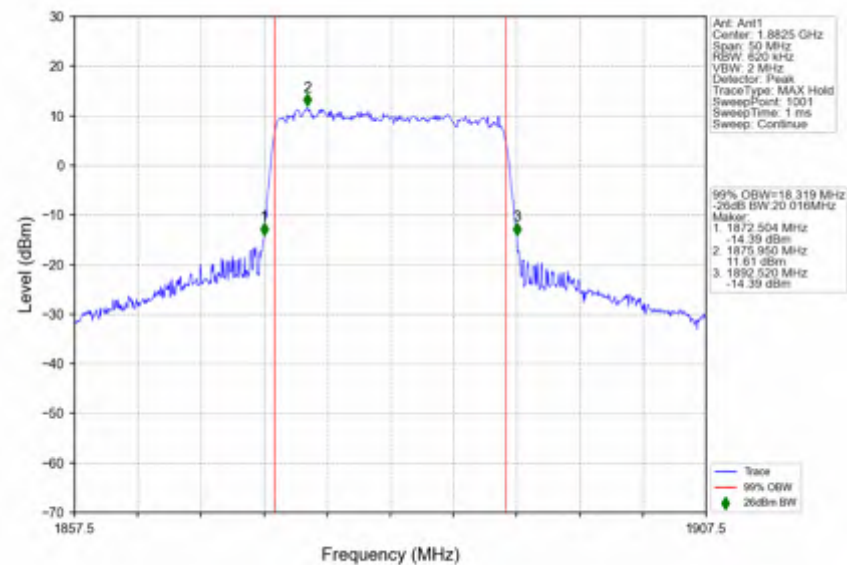
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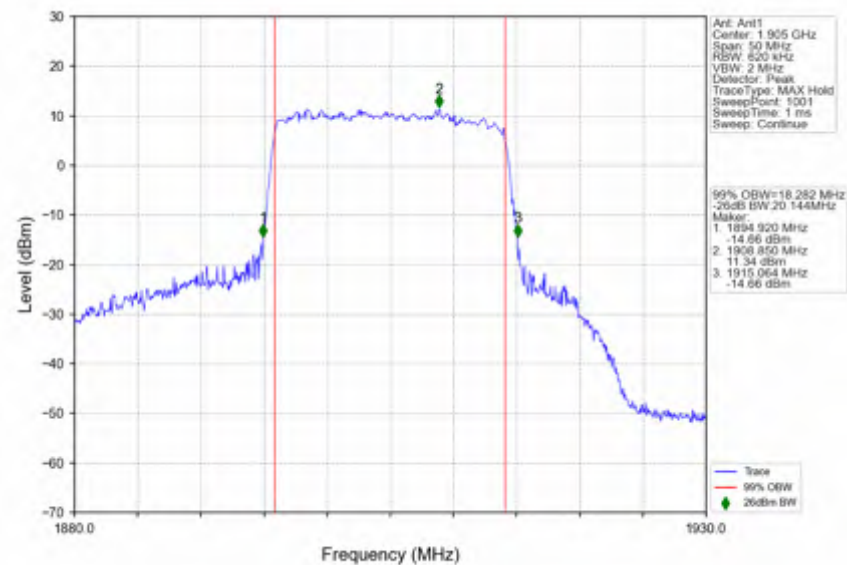
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n25_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_1882.5MHz_Outer_Full



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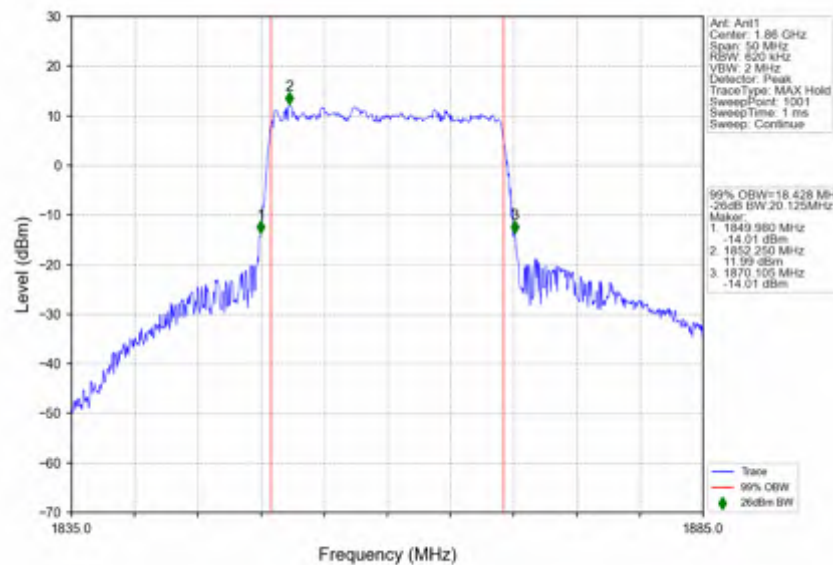
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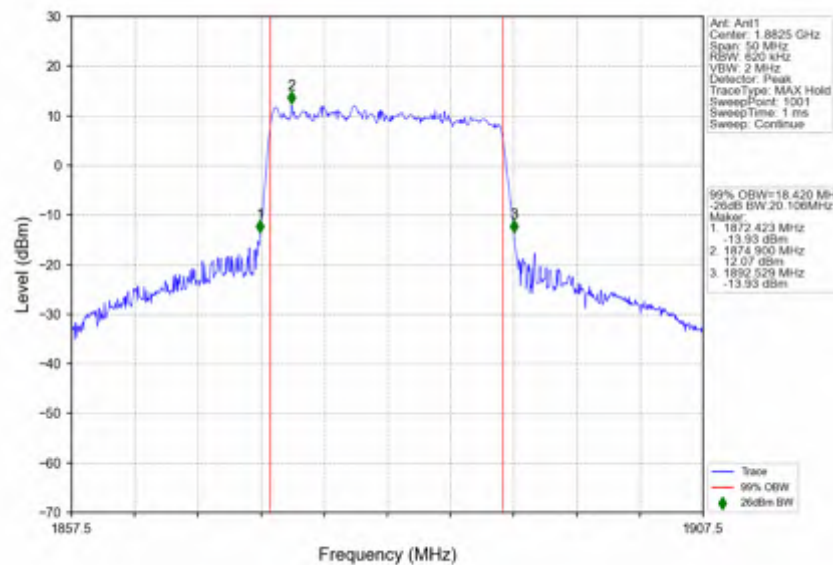
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n25_30kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_1860MHz_Outer_Full



n25_30kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_1882.5MHz_Outer_Full

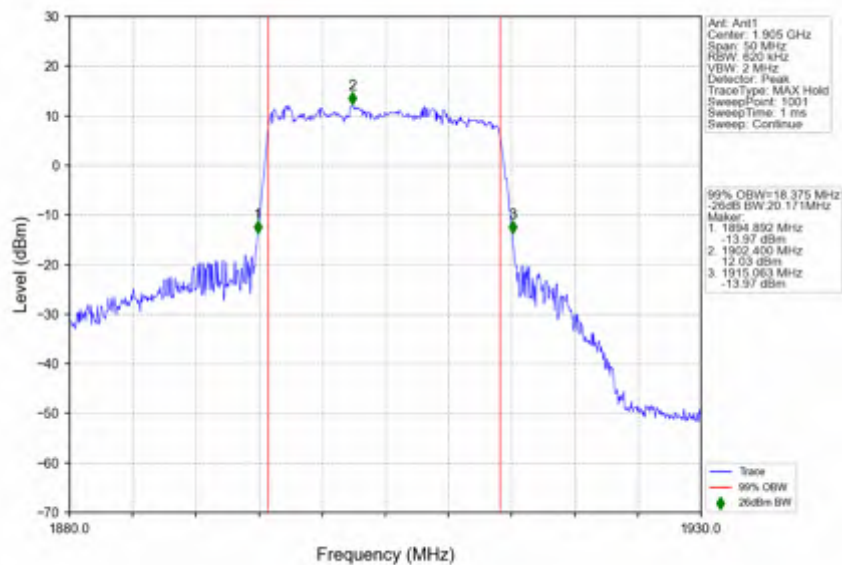


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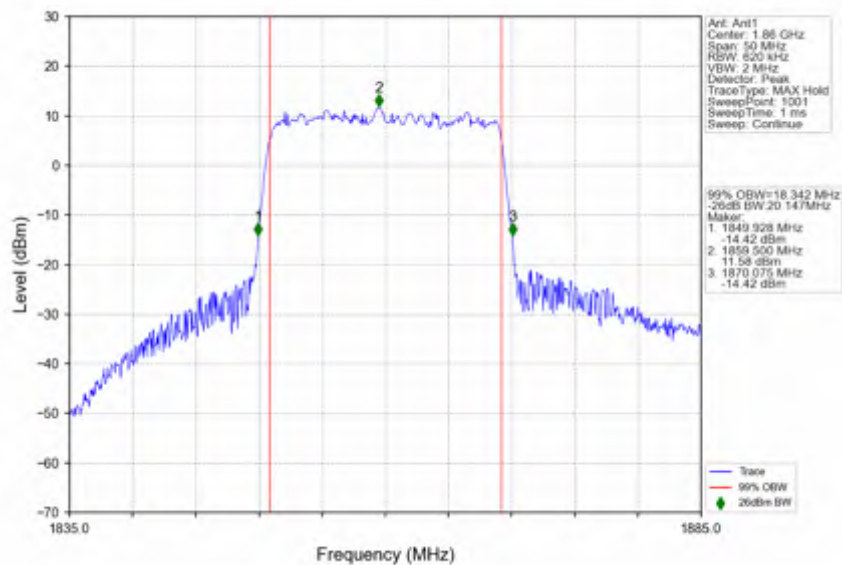
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n25_30kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_1905MHz_Outer_Full



n25_30kHz_SISO_NTNV_20MHz_CP-OFDM_64_QAM_1860MHz_Outer_Full

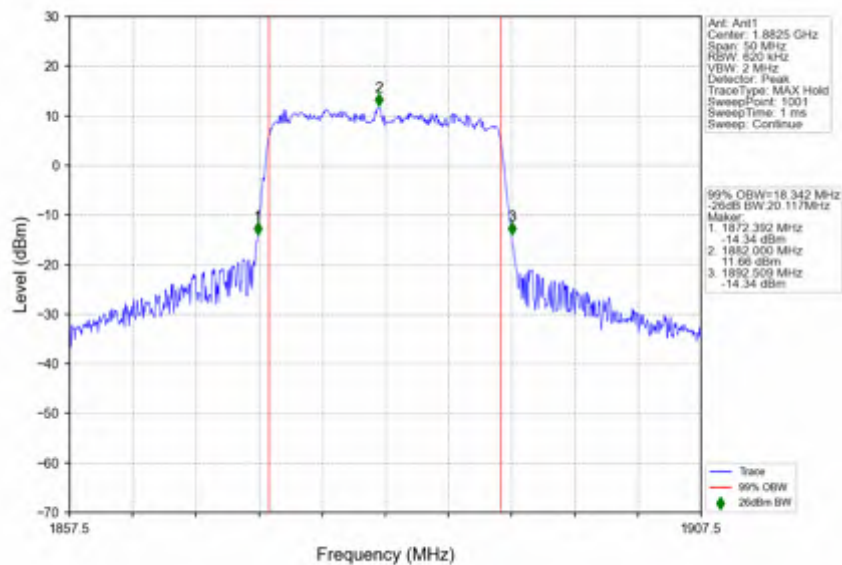


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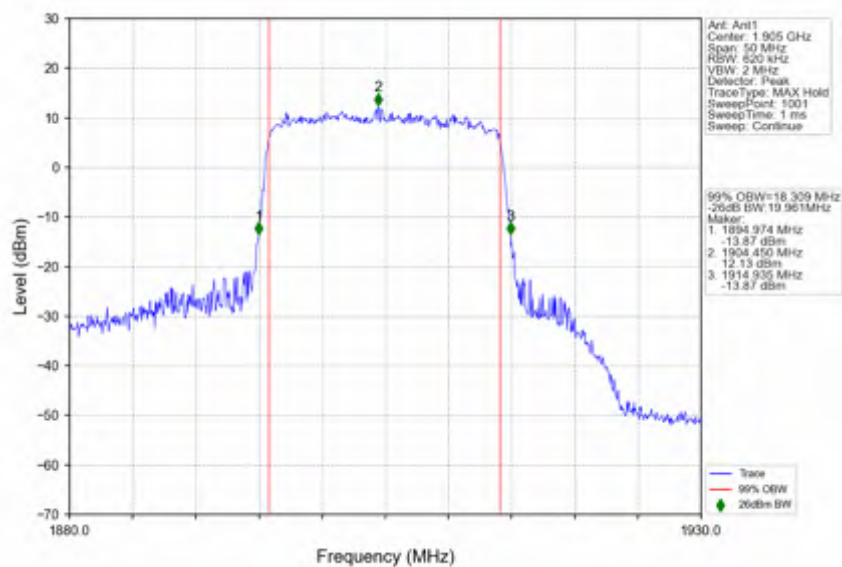
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n25 30kHz SISO NTN 20MHz CP-OFDM 64 QAM 1882.5MHz Outer Full



n25	30kHz	SISO	NTNV	20MHz	CP-OFDM	64 QAM	1905MHz	Outer	Full
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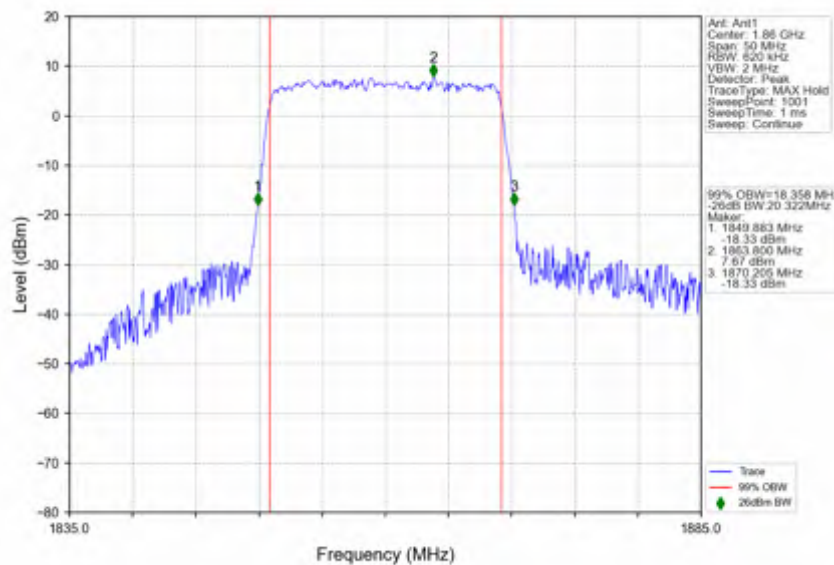


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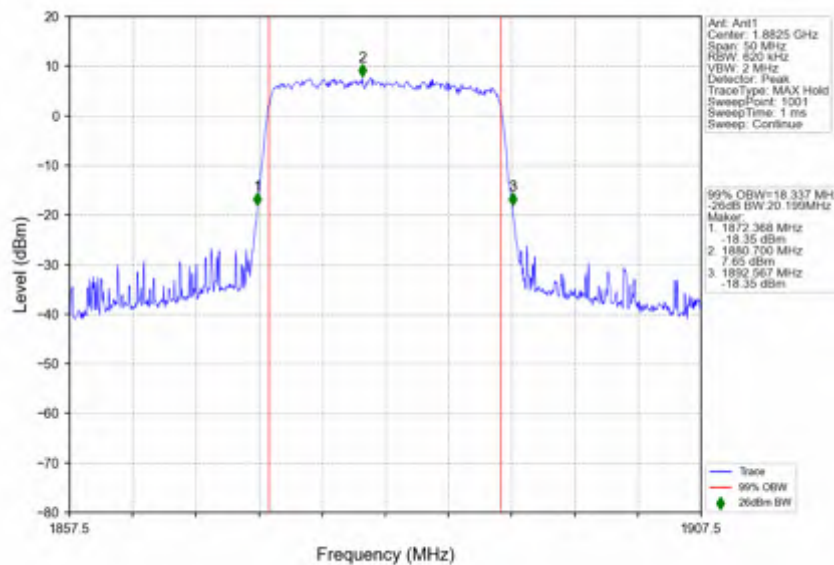
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n25_30kHz_SISO_NTNV_20MHz_CP-OFDM_256_QAM_1860MHz_Outer_Full



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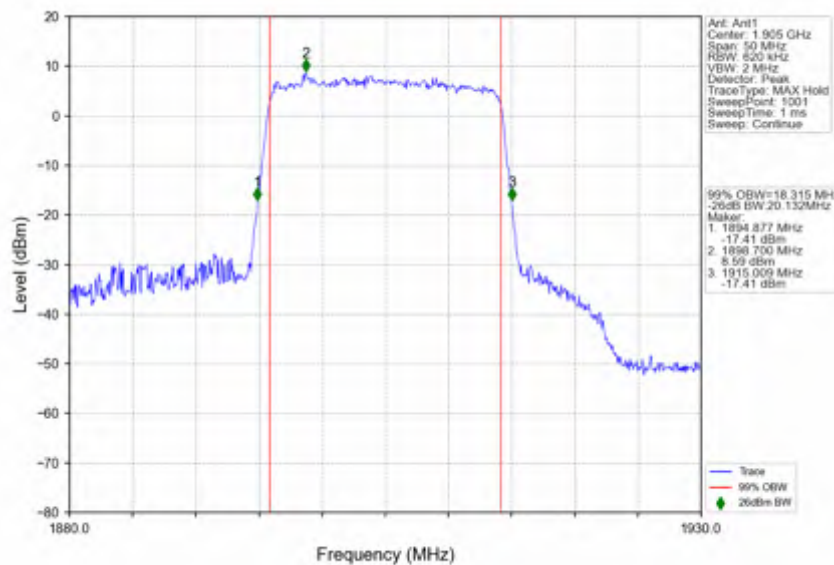


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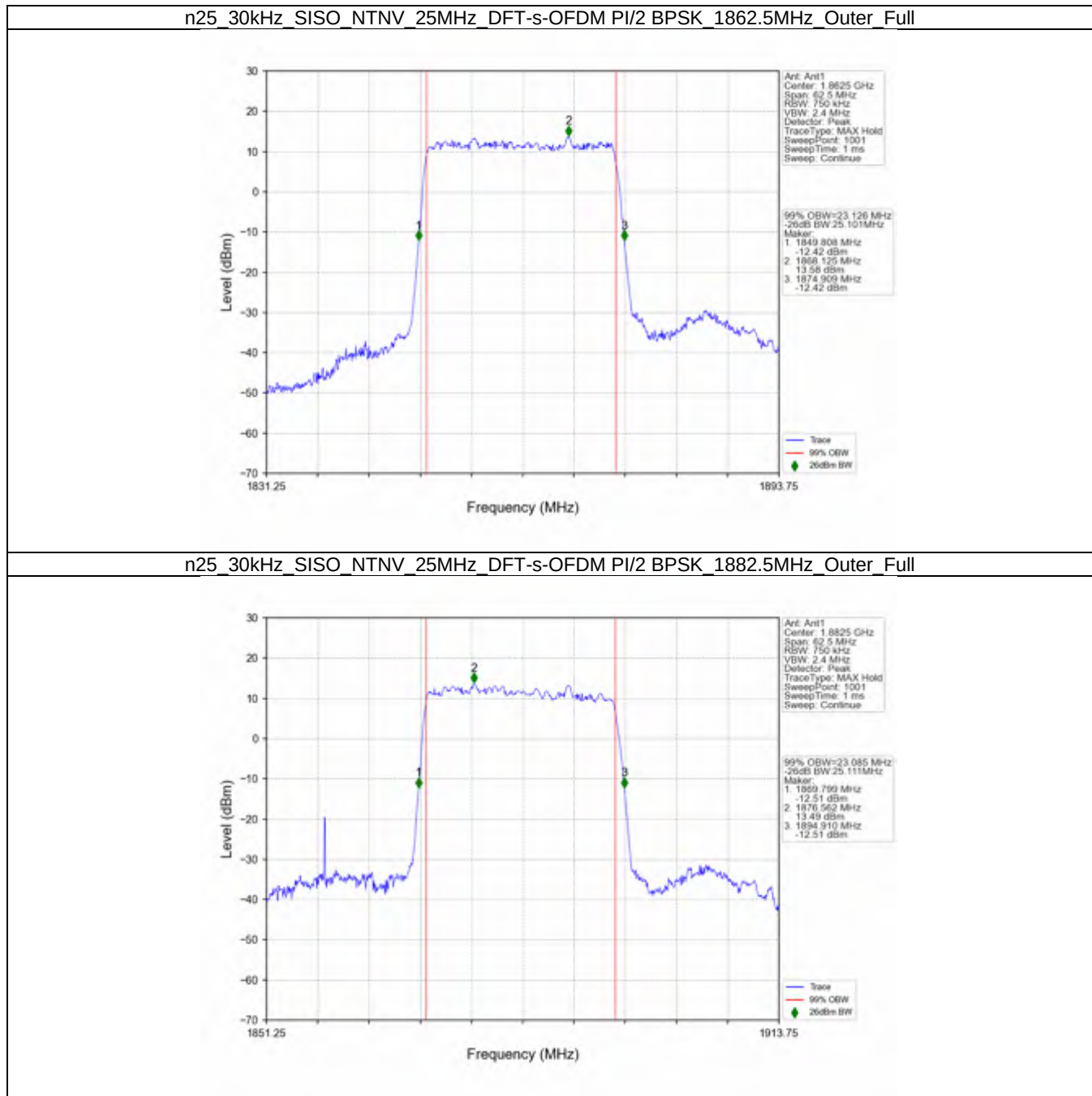
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4.11 30k_SISO_25MHz_NTNV

4.11.1 Test Result

5G NR n25 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	1862.5	Outer_Full	23.13	25.10	/	Pass
	1882.5	Outer_Full	23.09	25.11	/	Pass
	1902.5	Outer_Full	23.09	25.10	/	Pass
DFT-s-OFDM QPSK	1862.5	Outer_Full	23.11	25.00	/	Pass
	1882.5	Outer_Full	23.07	25.11	/	Pass
	1902.5	Outer_Full	23.05	24.93	/	Pass
DFT-s-OFDM 16 QAM	1862.5	Outer_Full	23.00	25.22	/	Pass
	1882.5	Outer_Full	23.03	25.04	/	Pass
	1902.5	Outer_Full	22.92	25.16	/	Pass
DFT-s-OFDM 64 QAM	1862.5	Outer_Full	23.19	25.17	/	Pass
	1882.5	Outer_Full	23.02	24.88	/	Pass
	1902.5	Outer_Full	23.13	25.10	/	Pass
DFT-s-OFDM 256 QAM	1862.5	Outer_Full	23.09	25.14	/	Pass
	1882.5	Outer_Full	23.05	25.04	/	Pass
	1902.5	Outer_Full	23.05	25.05	/	Pass
CP-OFDM QPSK	1862.5	Outer_Full	23.34	25.58	/	Pass
	1882.5	Outer_Full	23.34	25.36	/	Pass
	1902.5	Outer_Full	23.28	25.40	/	Pass
CP-OFDM 16 QAM	1862.5	Outer_Full	23.37	25.49	/	Pass
	1882.5	Outer_Full	23.32	25.27	/	Pass
	1902.5	Outer_Full	23.30	25.16	/	Pass
CP-OFDM 64 QAM	1862.5	Outer_Full	23.34	25.43	/	Pass
	1882.5	Outer_Full	23.29	25.40	/	Pass
	1902.5	Outer_Full	23.31	25.28	/	Pass
CP-OFDM 256 QAM	1862.5	Outer_Full	23.38	25.35	/	Pass
	1882.5	Outer_Full	23.32	25.39	/	Pass
	1902.5	Outer_Full	23.30	25.25	/	Pass

4.11.2 Test Graph

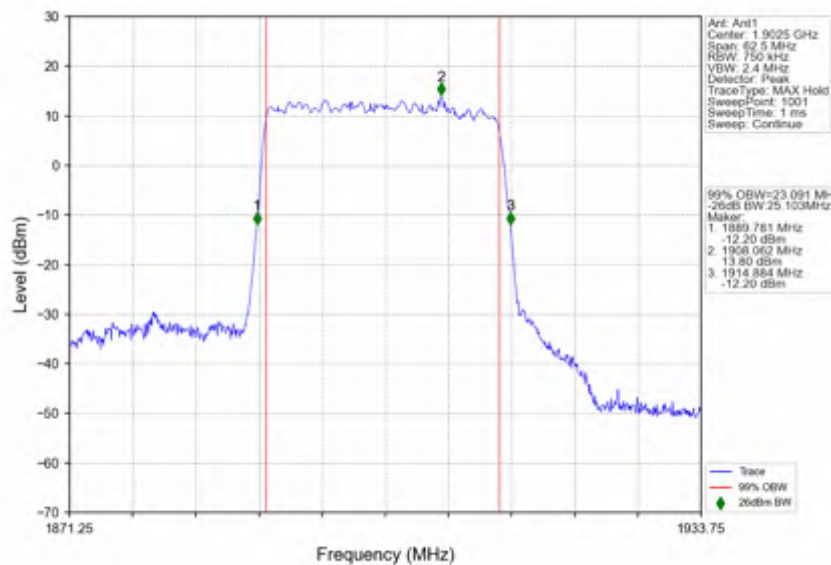


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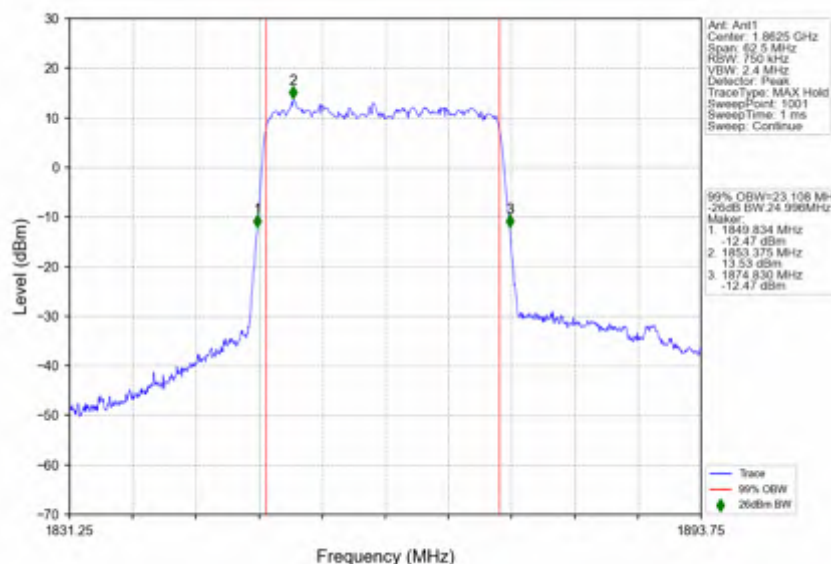
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n25_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_1862.5MHz_Outer_Full

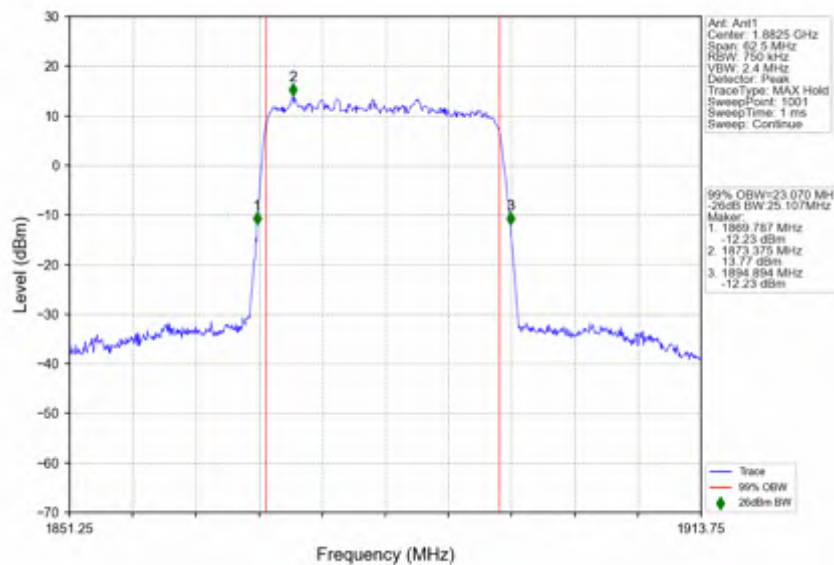


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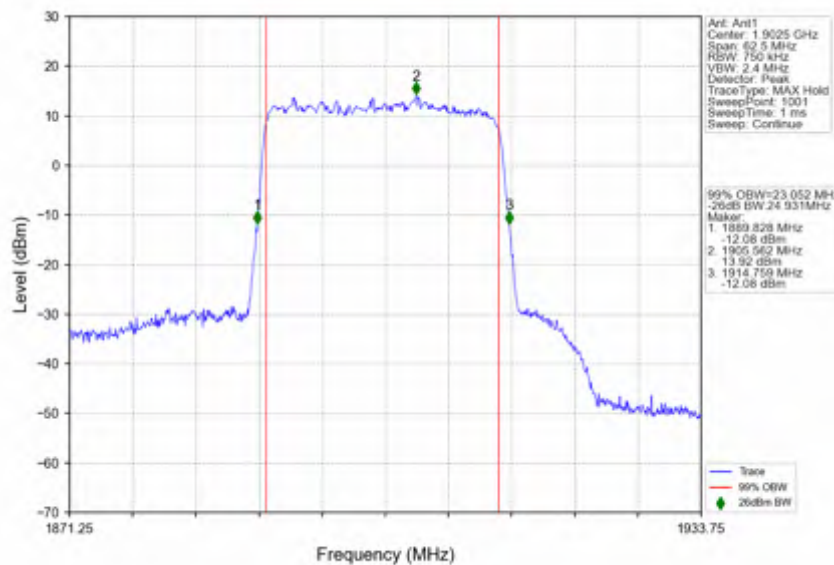
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n25	30kHz	SISO	NTNV	25MHz	DFT-s-OFDM	QPSK	1902.5MHz	Outer	Full
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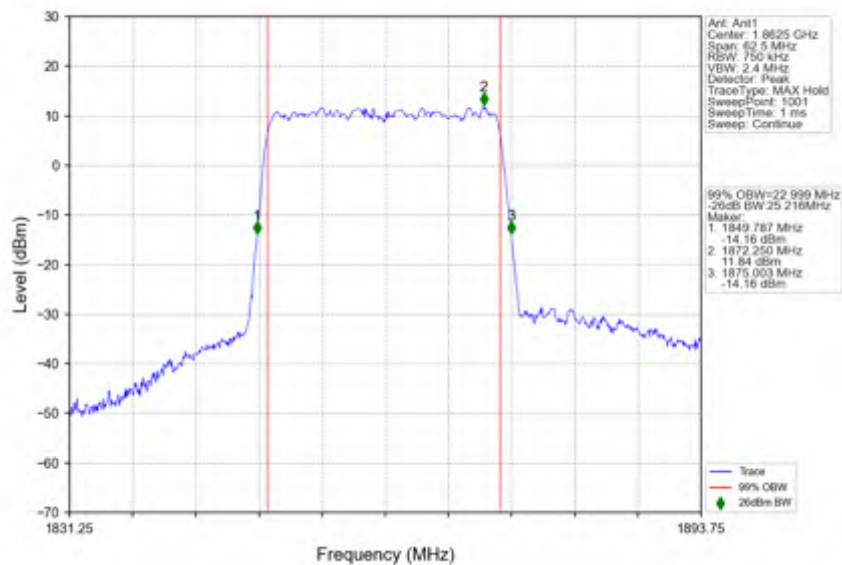


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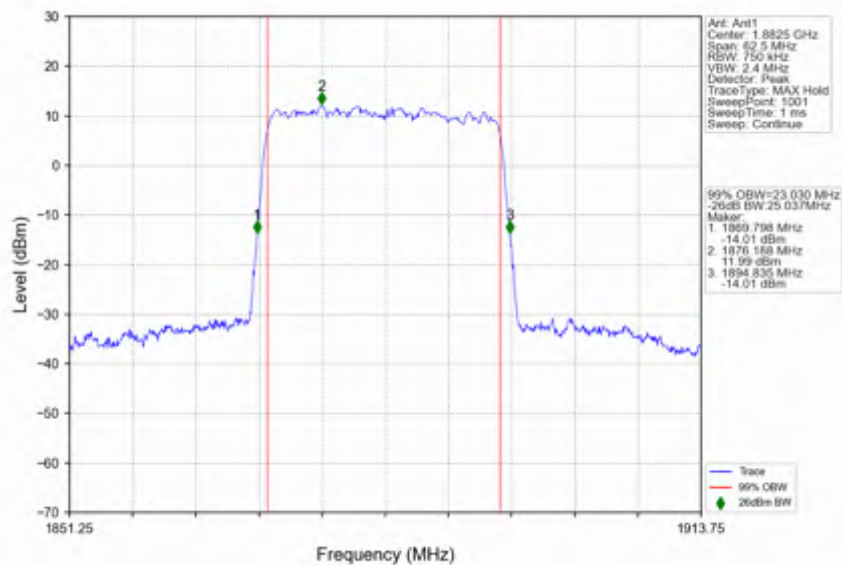
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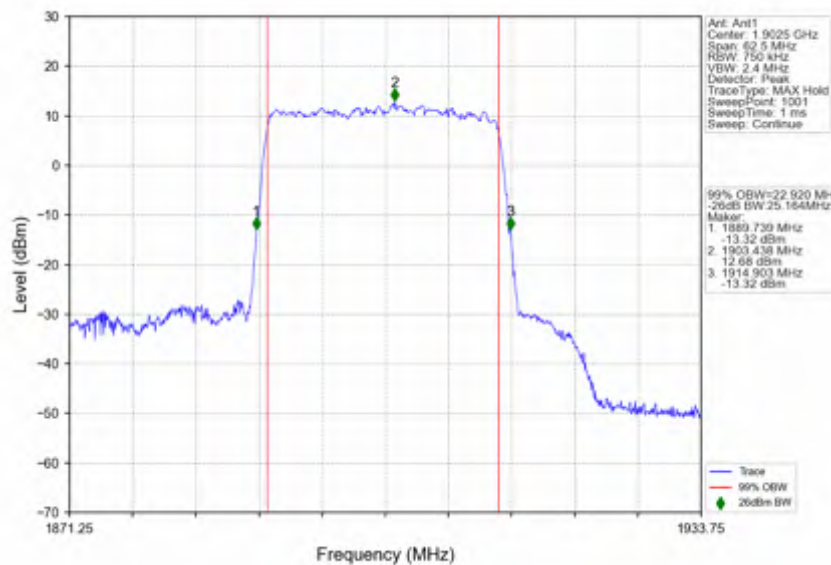
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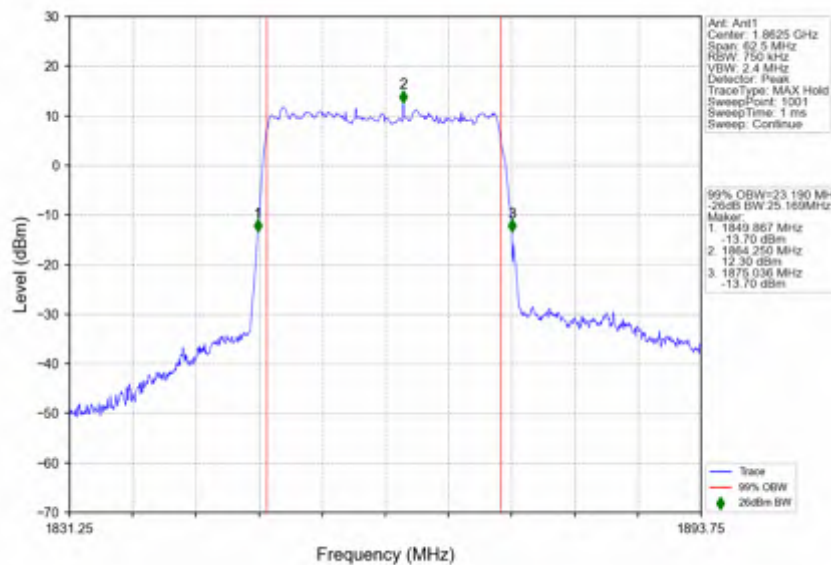
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n25_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_64_QAM_1862.5MHz_Outer_Full

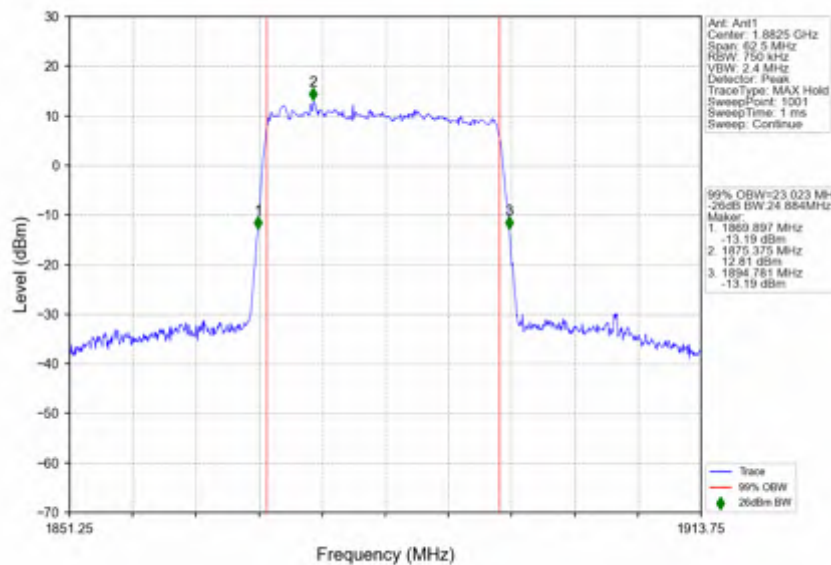


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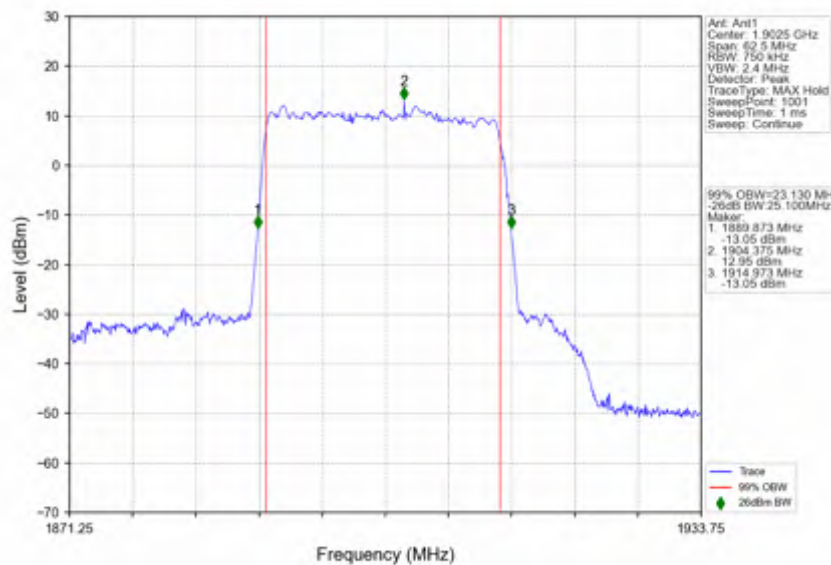
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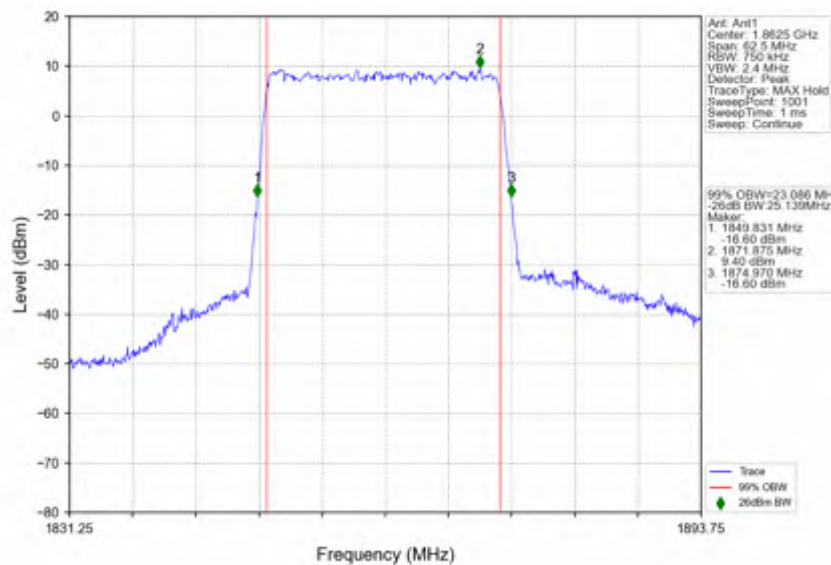
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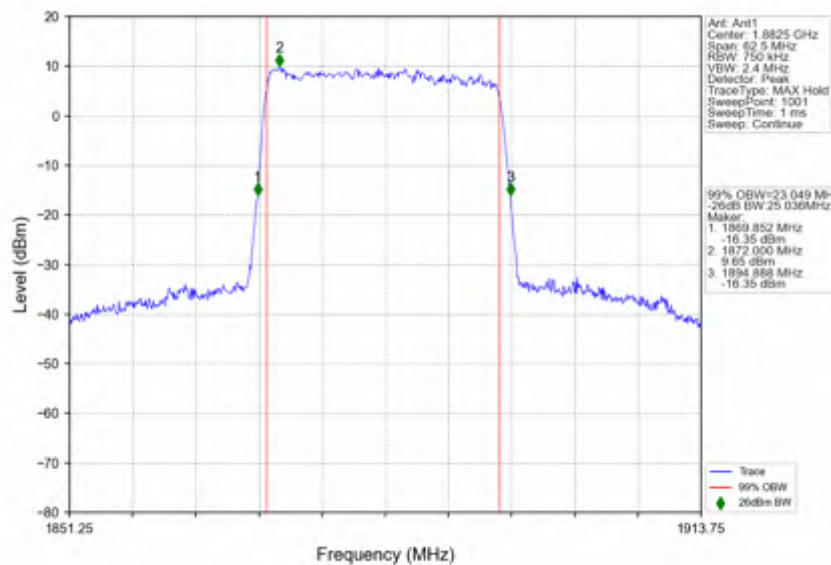
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n25	30kHz	SISO	NTNV	25MHz	DFT-s-OFDM	256	QAM	1862.5MHz	Outer	Full
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n25_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_256_QAM_1882.5MHz_Outer_Full

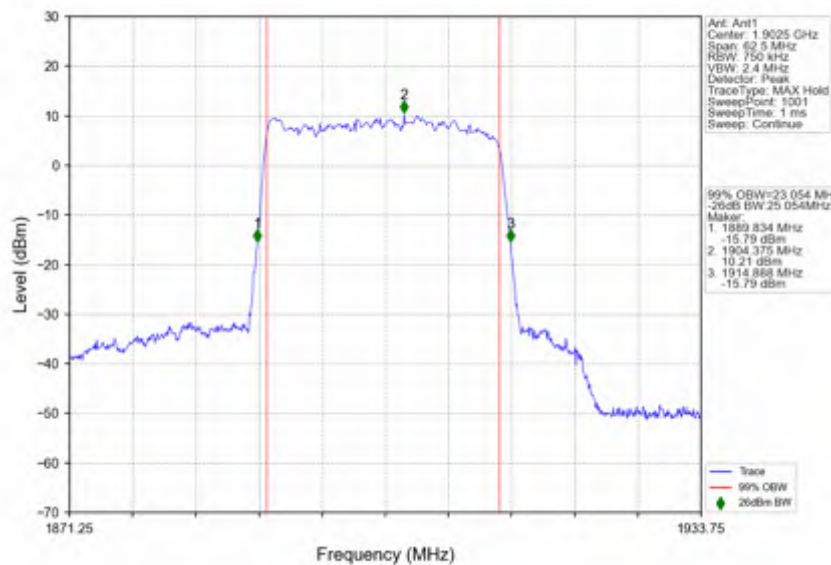


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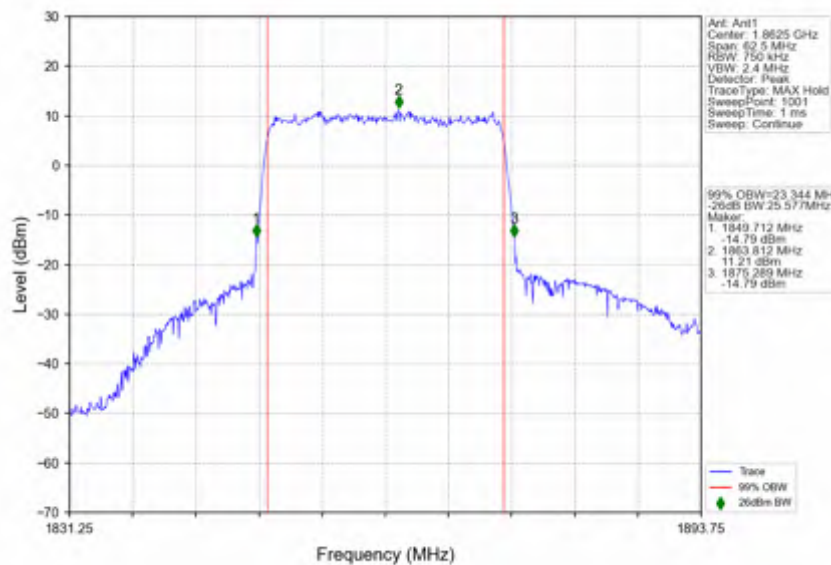
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n25_30kHz_SISO_NTNV_25MHz_DFT-s-OFDM_256_QAM_1902.5MHz_Outer_Full



n25_30kHz_SISO_NTNV_25MHz_CP-OFDM_QPSK_1862.5MHz_Outer_Full



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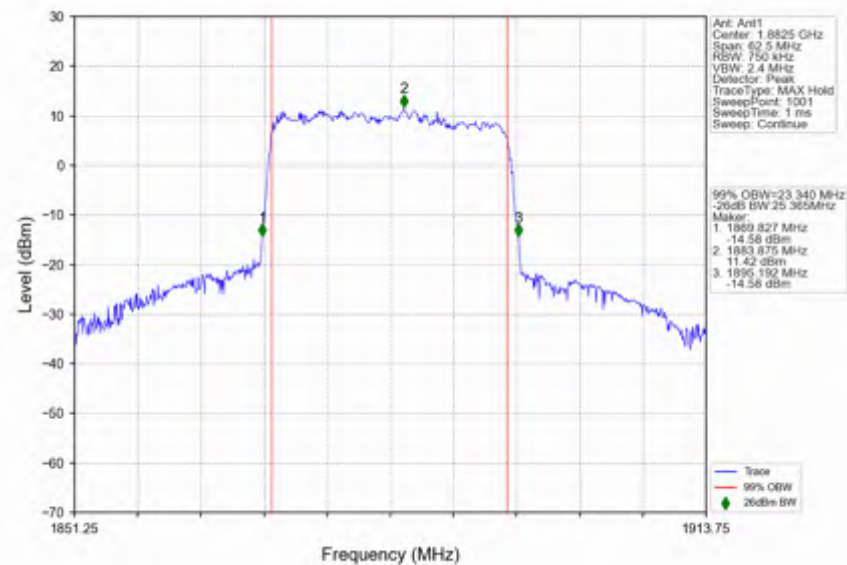
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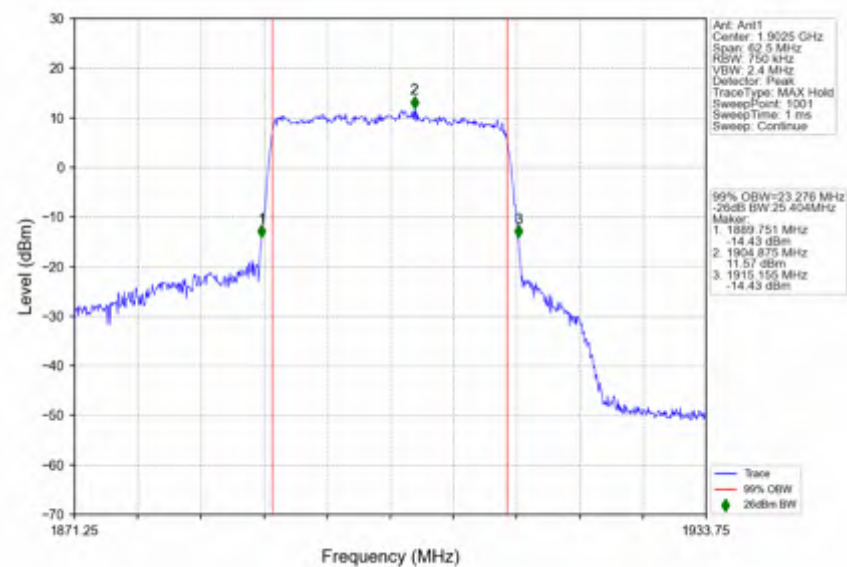
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n25_30kHz_SISO_NTNV_25MHz_CP-OFDM_QPSK_1882.5MHz_Outer_Full



n25	30kHz	SISO	NTNV	25MHz	CP-OFDM	QPSK	1902.5MHz	Outer	Full
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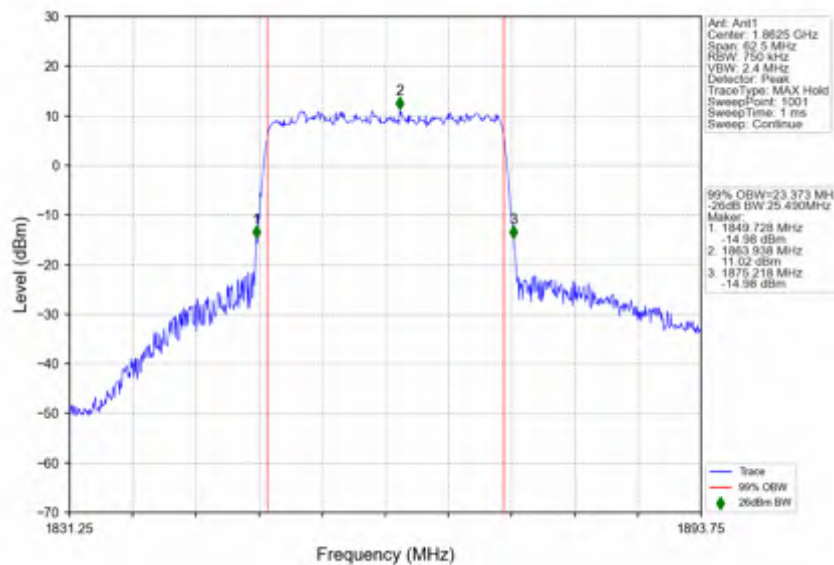
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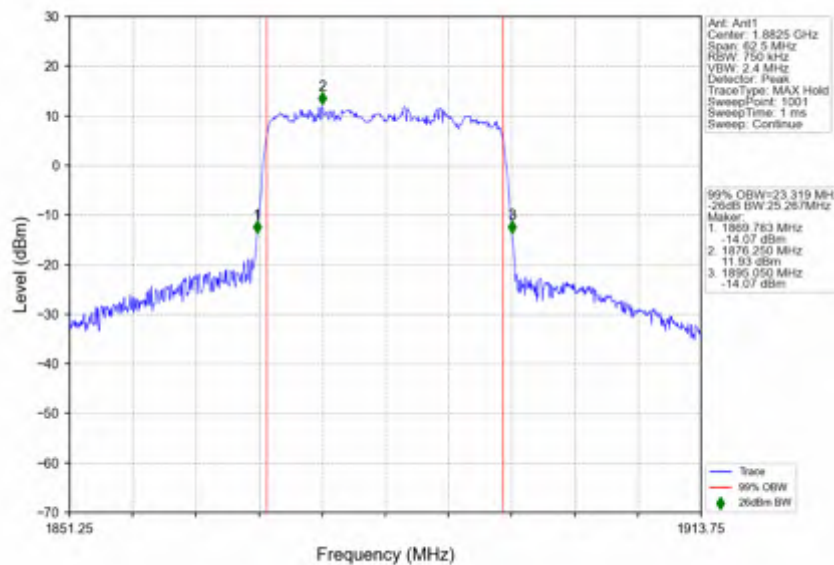
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n25_30kHz_SISO_NTNV_25MHz_CP-OFDM_16 QAM_1862.5MHz_Outer_Full



n25_30kHz_SISO_NTNV_25MHz_CP-OFDM_16 QAM_1882.5MHz_Outer_Full



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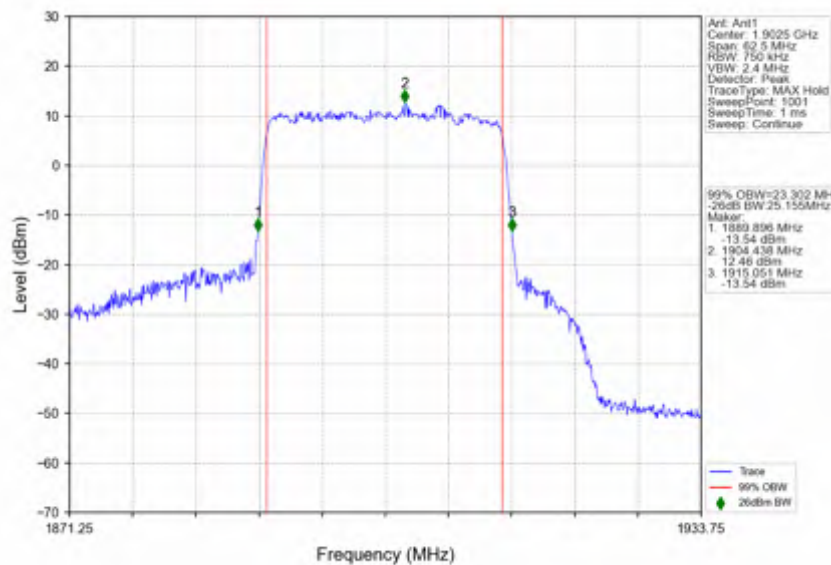
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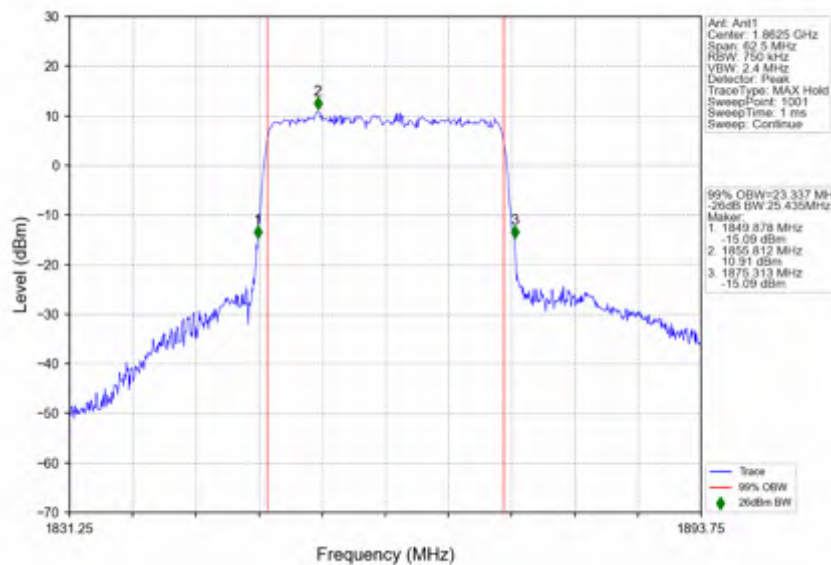
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n25_30kHz_SISO_NTNV_25MHz_CP-OFDM 16 QAM_1902.5MHz_Outer_Full



n25_30kHz_SISO_NTNV_25MHz_CP-OFDM 64 QAM_1862.5MHz_Outer_Full



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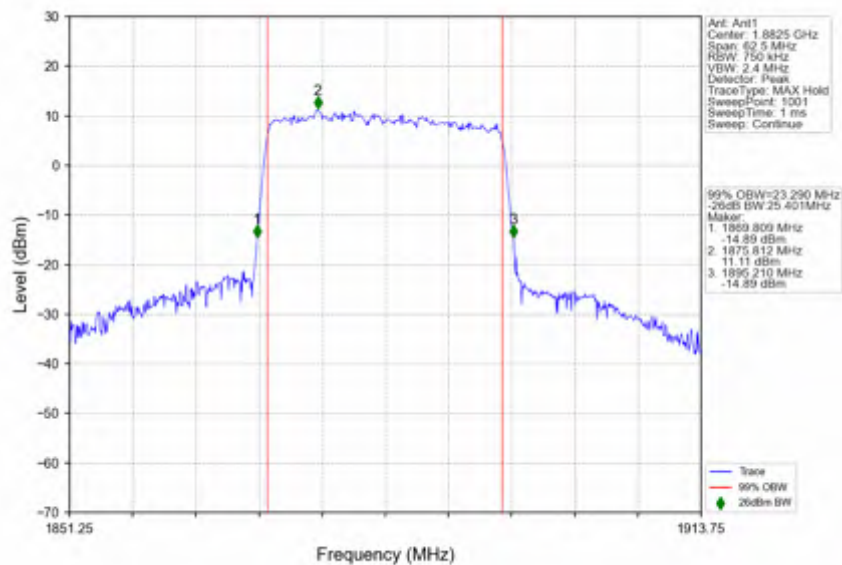
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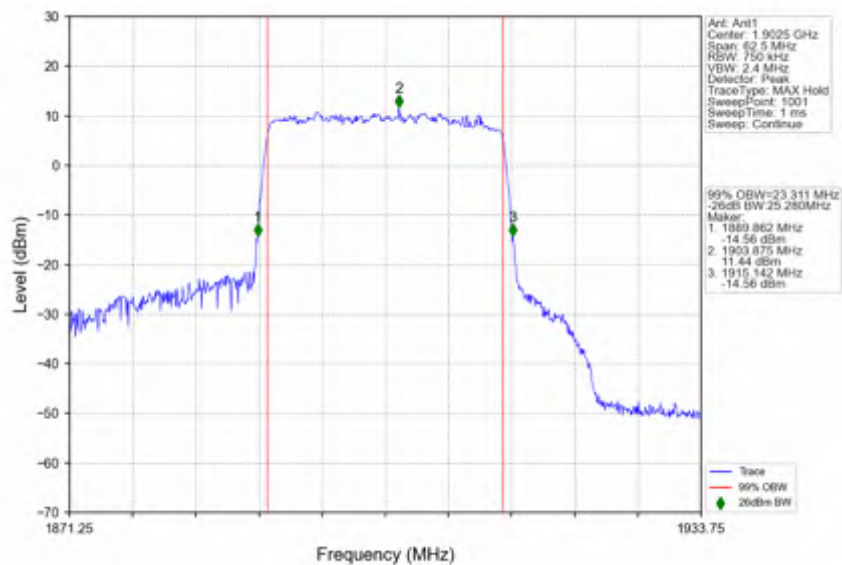
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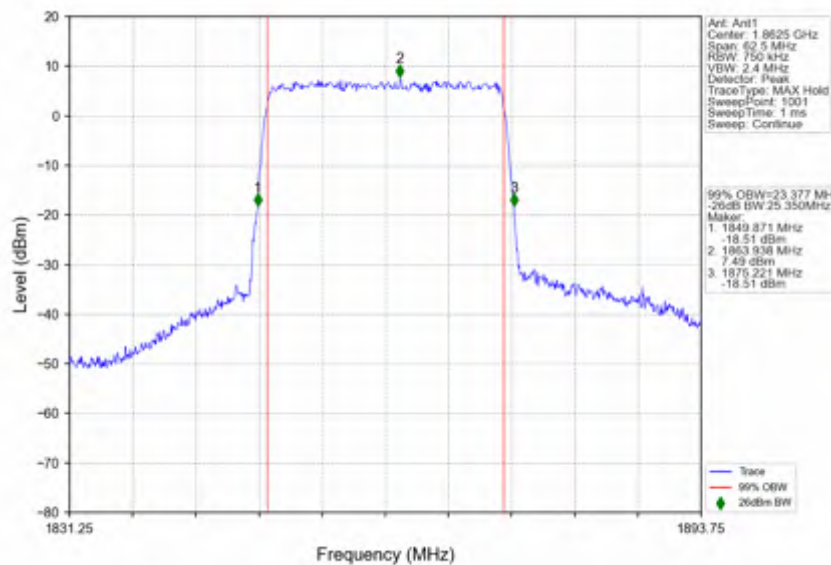
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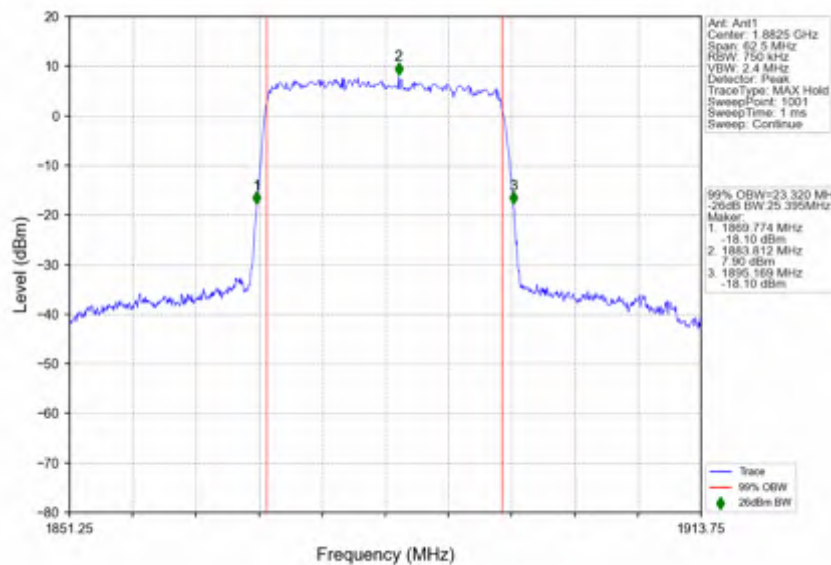
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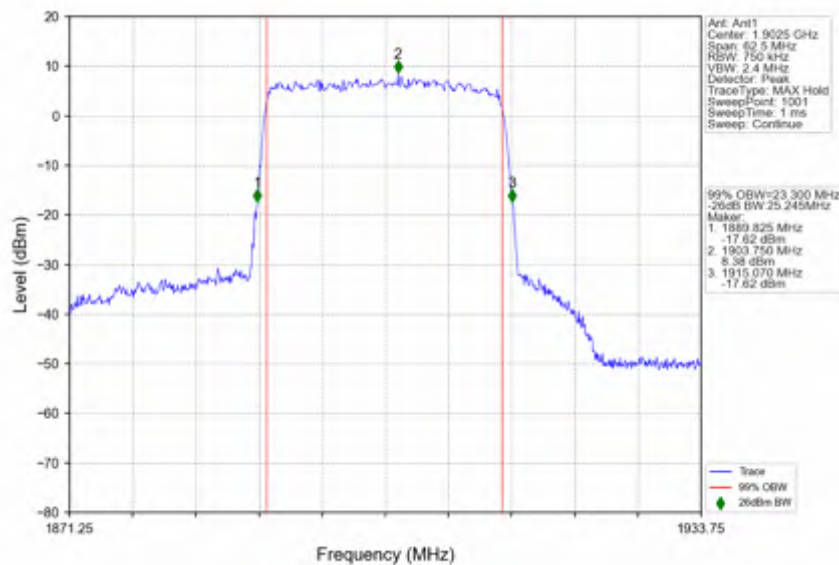
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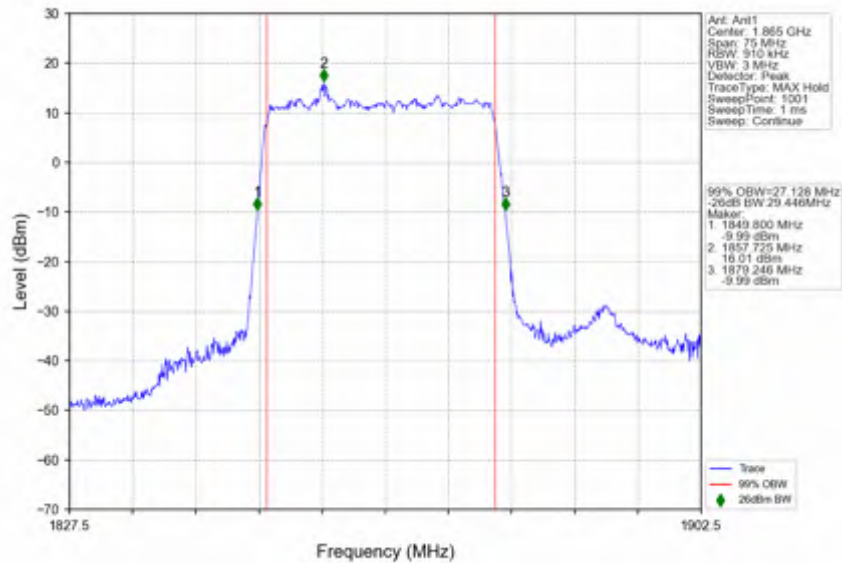
4.12 30k_SISO_30MHz_NTNV

4.12.1 Test Result

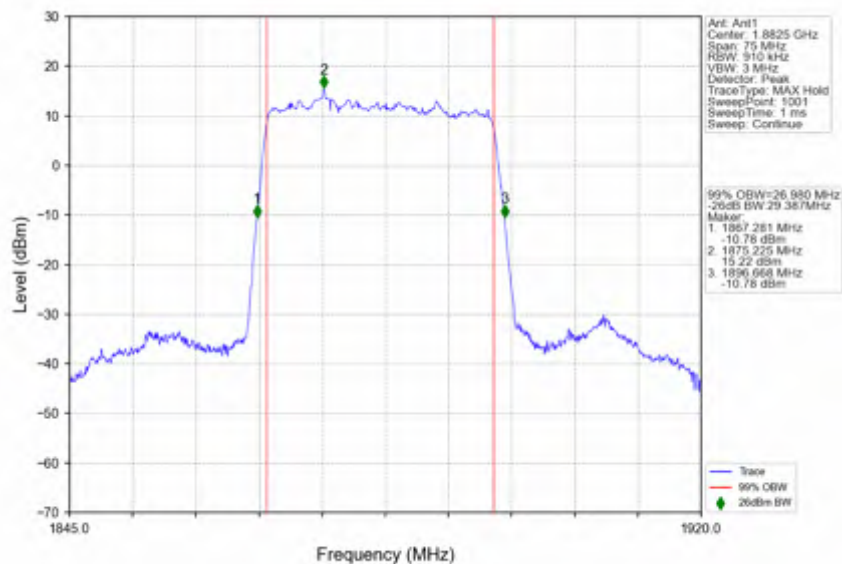
5G NR n25 SCS=30kHz SISO 30MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1865	Outer_Full	27.13	29.45	/	Pass
	1882.5	Outer_Full	26.98	29.39	/	Pass
	1900	Outer_Full	27.05	29.39	/	Pass
DFT-s-OFDM QPSK	1865	Outer_Full	27.16	29.66	/	Pass
	1882.5	Outer_Full	27.09	29.61	/	Pass
	1900	Outer_Full	27.11	29.53	/	Pass
DFT-s-OFDM 16 QAM	1865	Outer_Full	27.05	29.69	/	Pass
	1882.5	Outer_Full	26.98	29.39	/	Pass
	1900	Outer_Full	26.99	29.46	/	Pass
DFT-s-OFDM 64 QAM	1865	Outer_Full	27.09	29.53	/	Pass
	1882.5	Outer_Full	27.00	29.50	/	Pass
	1900	Outer_Full	27.05	29.39	/	Pass
DFT-s-OFDM 256 QAM	1865	Outer_Full	27.14	29.50	/	Pass
	1882.5	Outer_Full	27.16	29.78	/	Pass
	1900	Outer_Full	27.09	29.31	/	Pass
CP-OFDM QPSK	1865	Outer_Full	28.13	30.30	/	Pass
	1882.5	Outer_Full	28.08	30.39	/	Pass
	1900	Outer_Full	28.15	30.59	/	Pass
CP-OFDM 16 QAM	1865	Outer_Full	28.03	30.54	/	Pass
	1882.5	Outer_Full	28.00	30.23	/	Pass
	1900	Outer_Full	28.06	30.62	/	Pass
CP-OFDM 64 QAM	1865	Outer_Full	28.08	30.52	/	Pass
	1882.5	Outer_Full	28.03	30.46	/	Pass
	1900	Outer_Full	28.07	30.57	/	Pass
CP-OFDM 256 QAM	1865	Outer_Full	27.96	30.43	/	Pass
	1882.5	Outer_Full	27.89	30.44	/	Pass
	1900	Outer_Full	27.94	30.33	/	Pass

4.12.2 Test Graph

n25_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_PI/2_BPSK_1865MHz_Outer_Full



n25_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_PI/2_BPSK_1882.5MHz_Outer_Full



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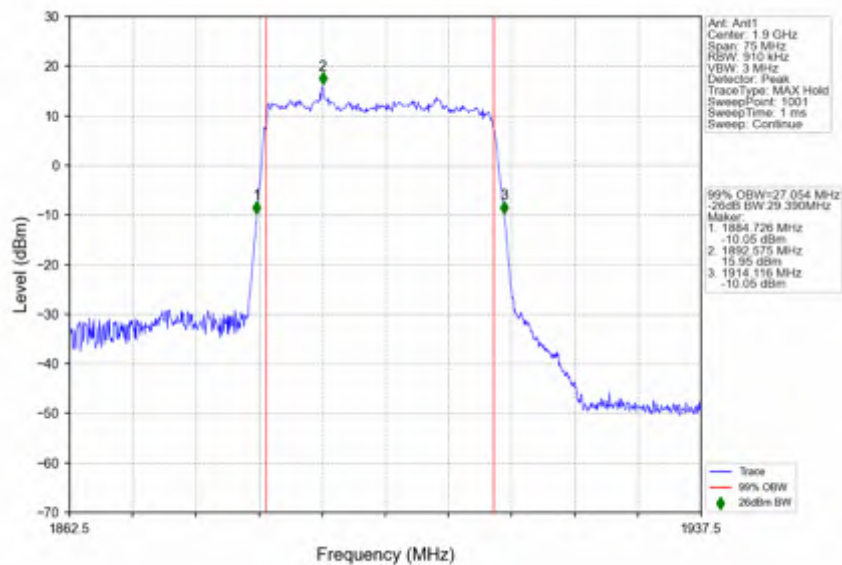
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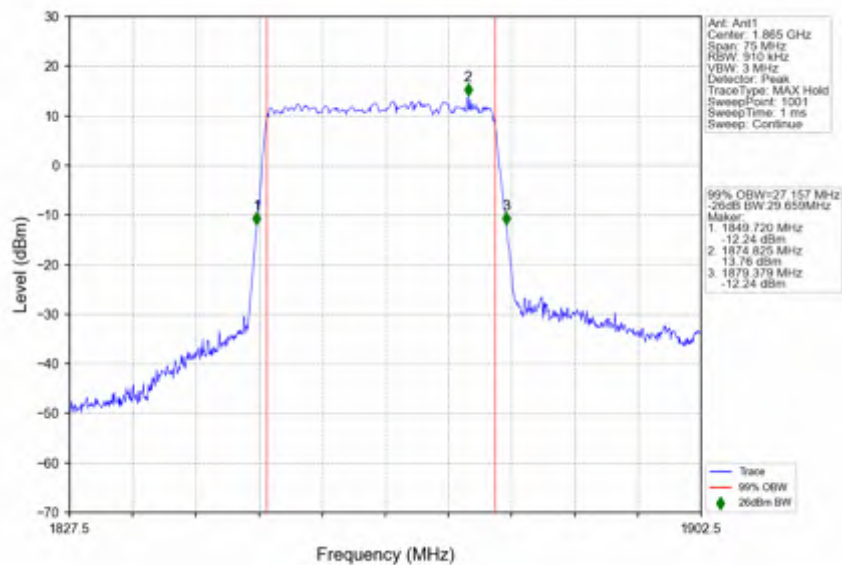
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n25_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_1900MHz_Outer_Full



n25_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_1865MHz_Outer_Full



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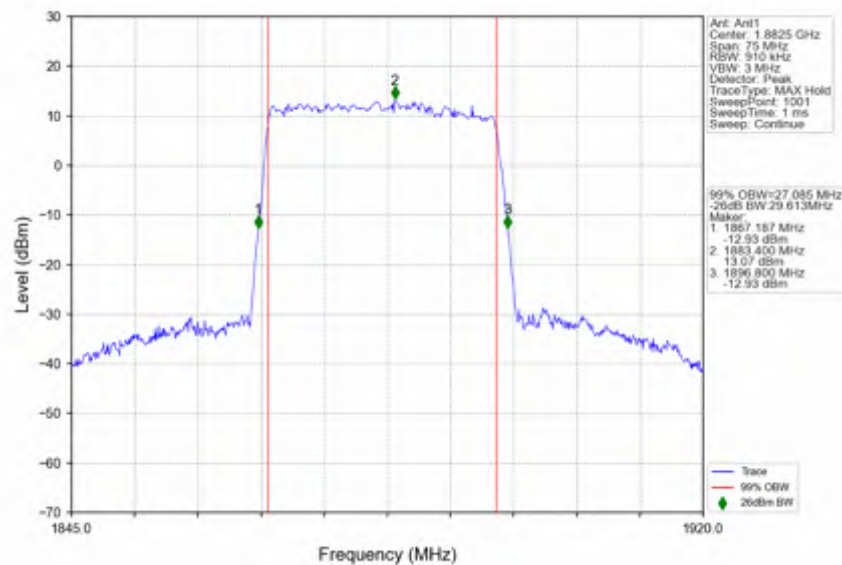
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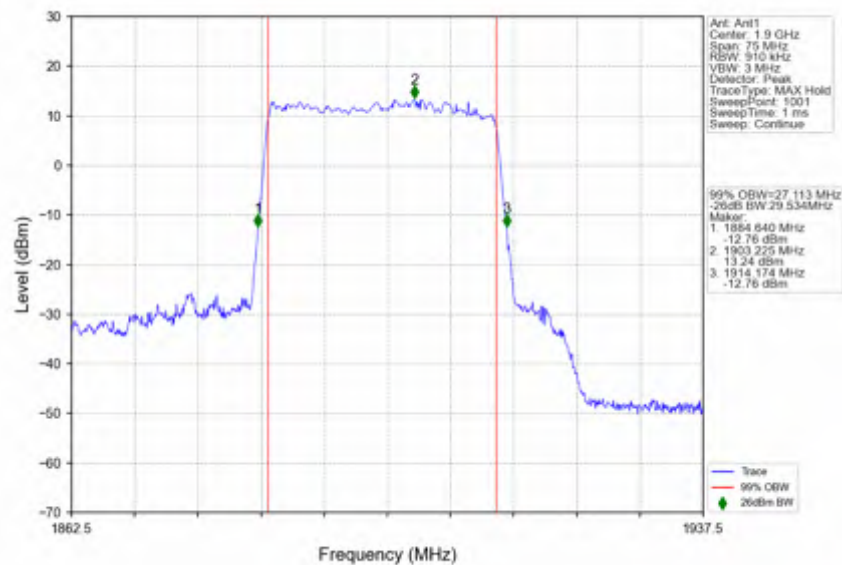
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n25_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_QPSK_1882.5MHz_Outer_Full



n25_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_QPSK_1900MHz_Outer_Full



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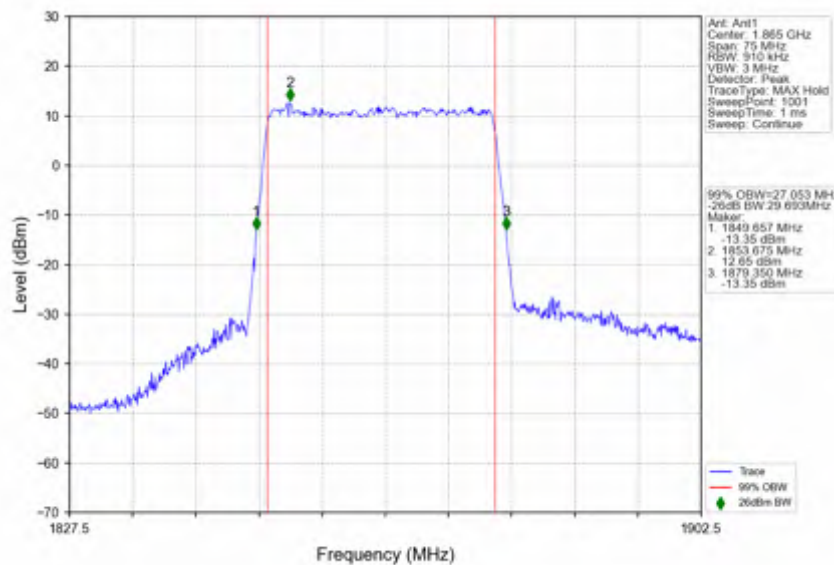
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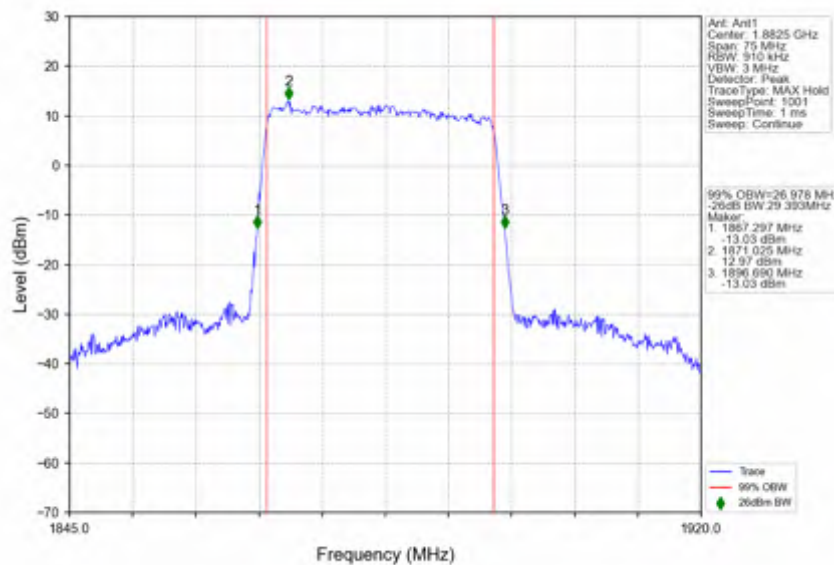
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n25_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16QAM_1882.5MHz_Outer_Full



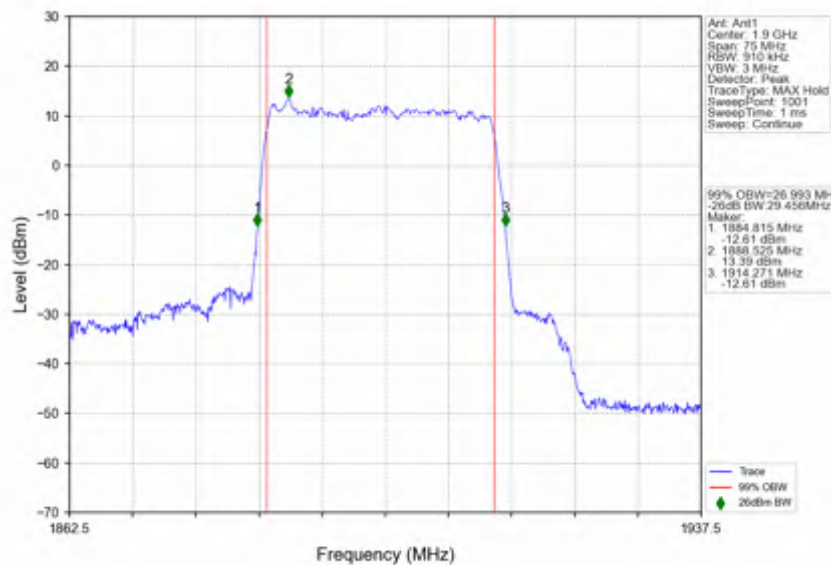
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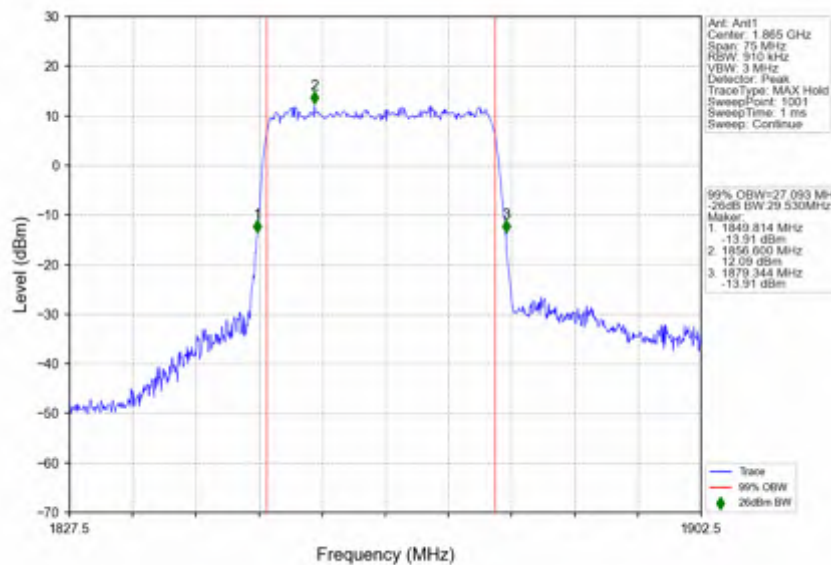
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n25 30kHz SISO NTNv 30MHz DFT-s-OFDM 16 QAM 1900MHz Outer Full



n25 30kHz SISO NTV 30MHz DFT-s-OFDM 64 QAM 1865MHz Outer Full

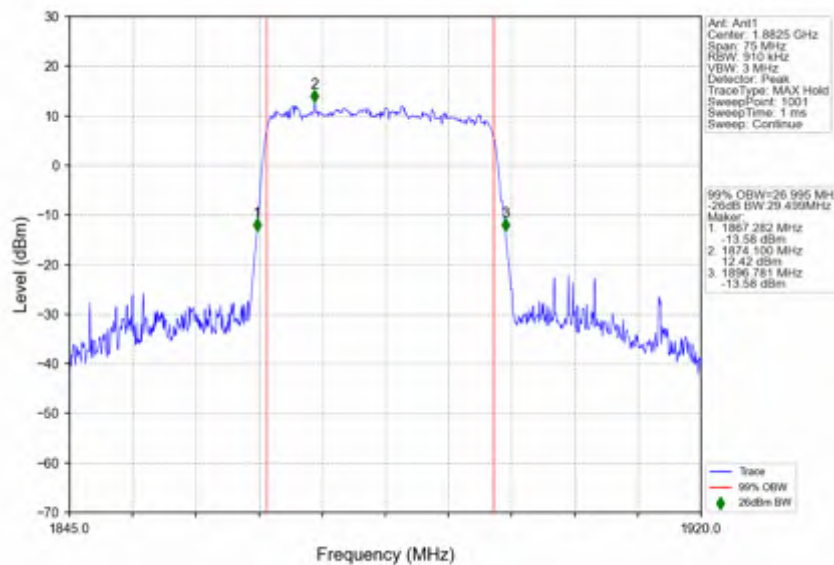


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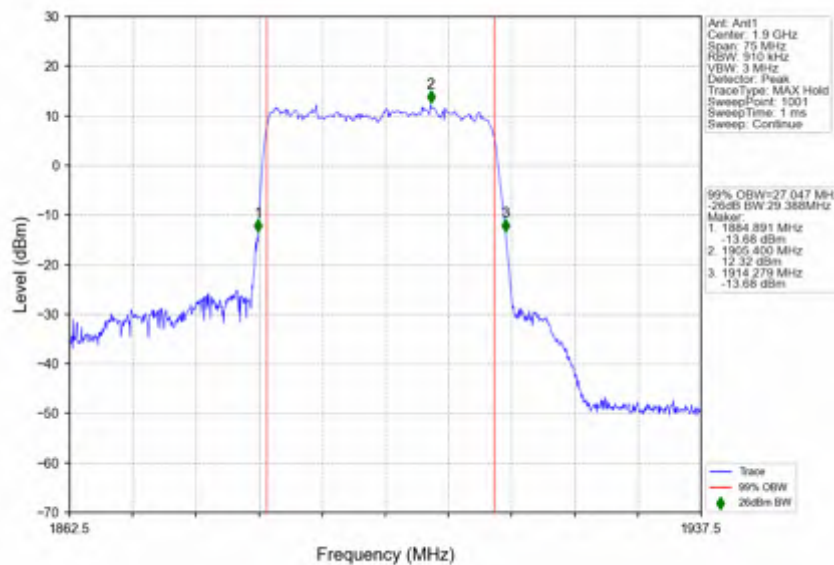
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n25_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_1882.5MHz_Outer_Full



n25_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 64 QAM_1900MHz_Outer_Full



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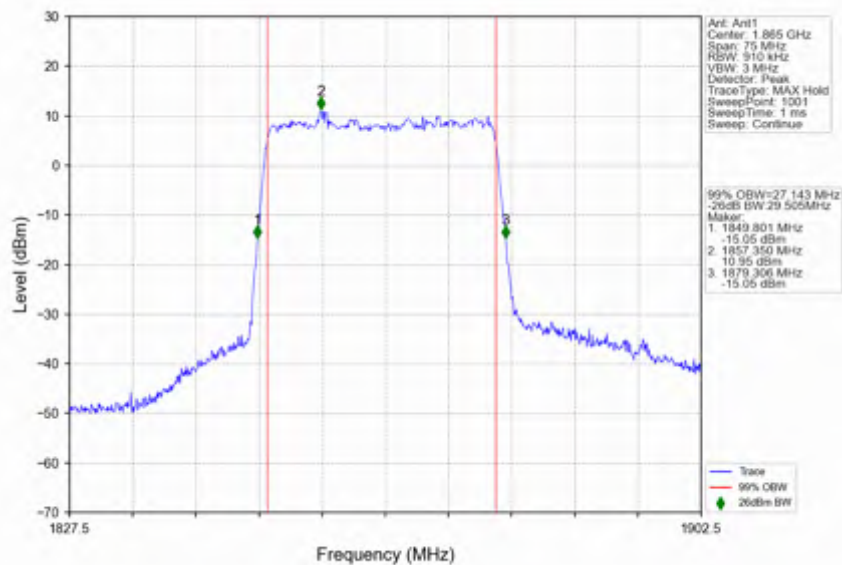
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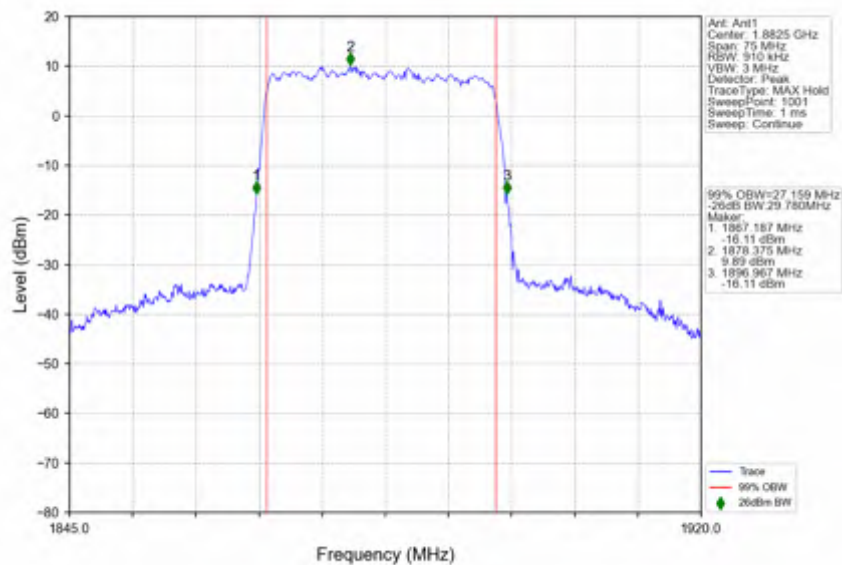
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n25_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_1865MHz_Outer_Full



n25_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_1882.5MHz_Outer_Full

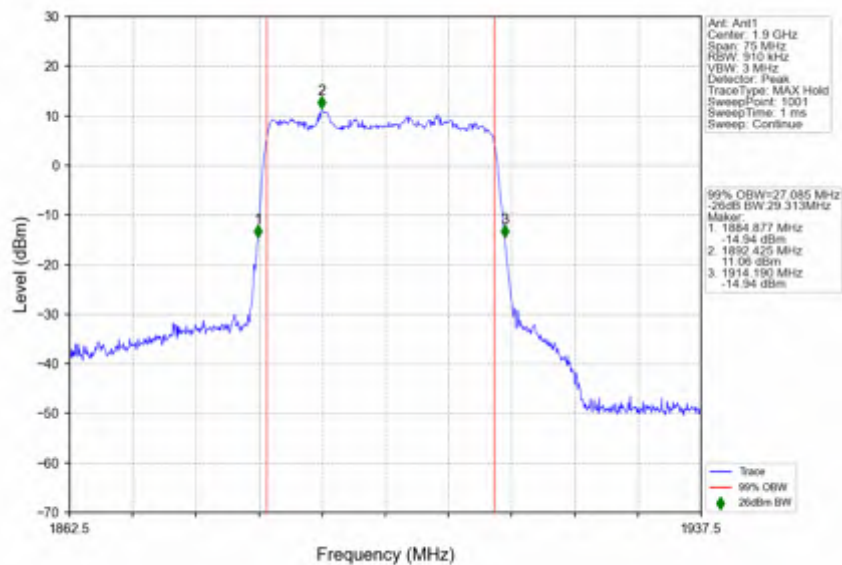


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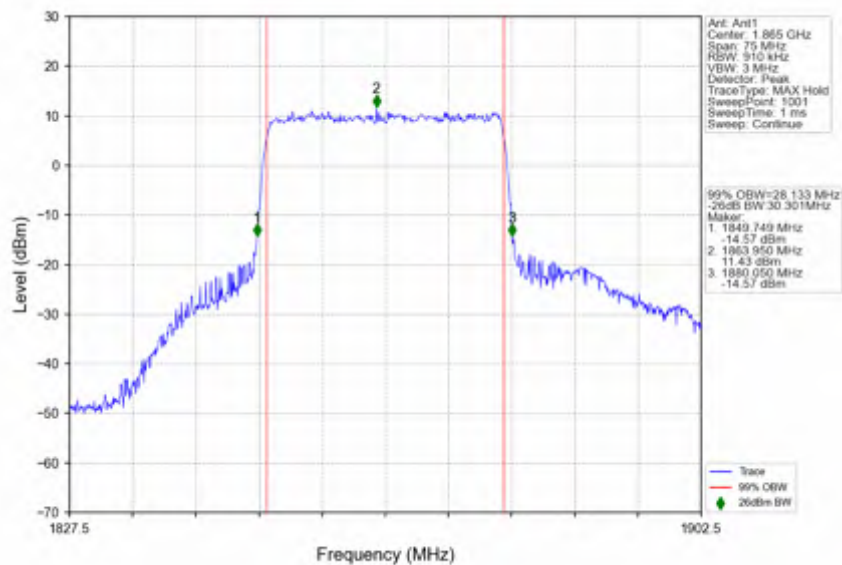
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n25_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_1900MHz_Outer_Full



n25_30kHz_SISO_NTNV_30MHz_CP-OFDM_QPSK_1865MHz_Outer_Full



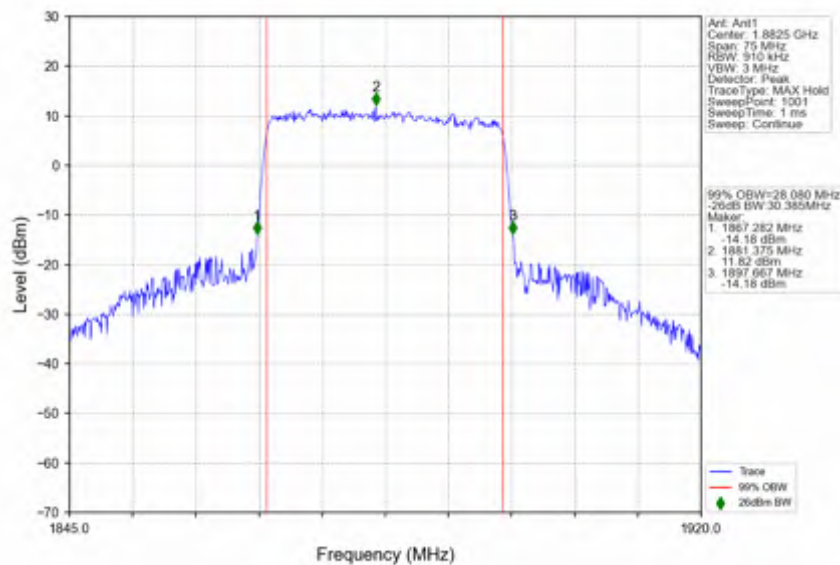
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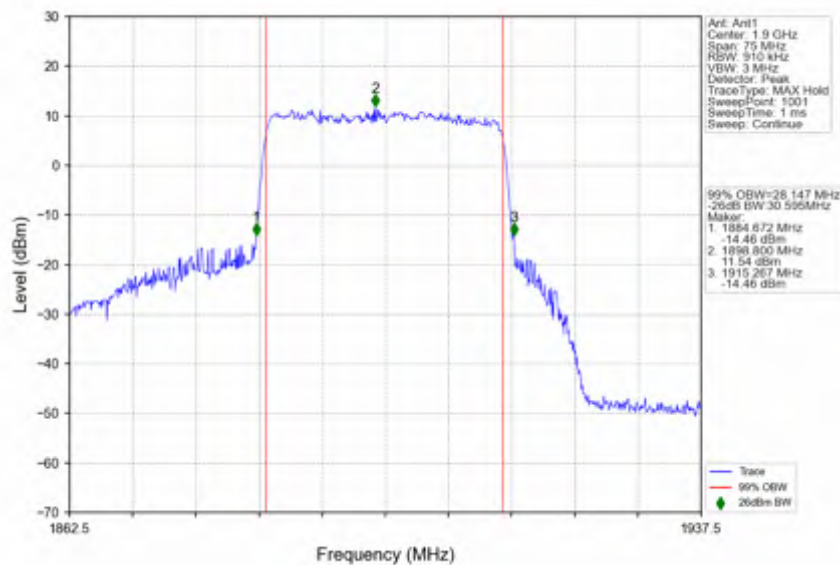
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n25_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_1882.5MHz_Outer_Full



n25_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_1900MHz_Outer_Full



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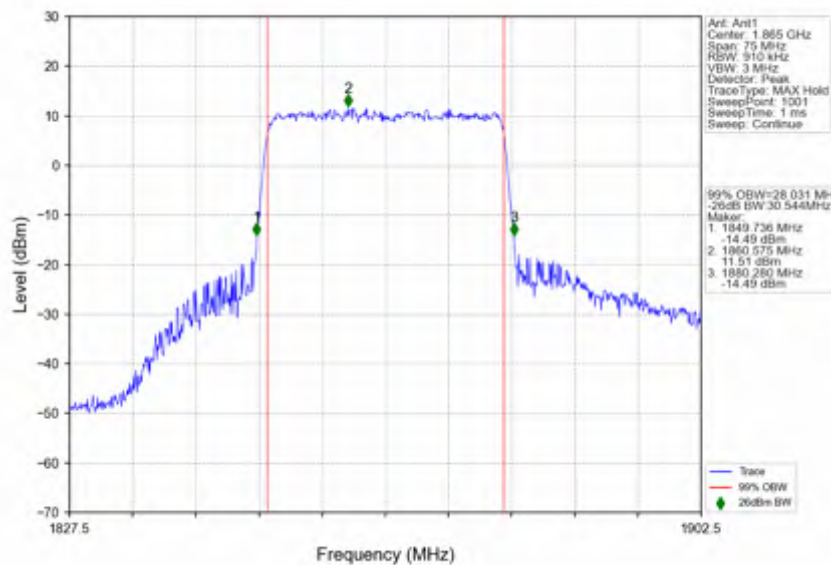
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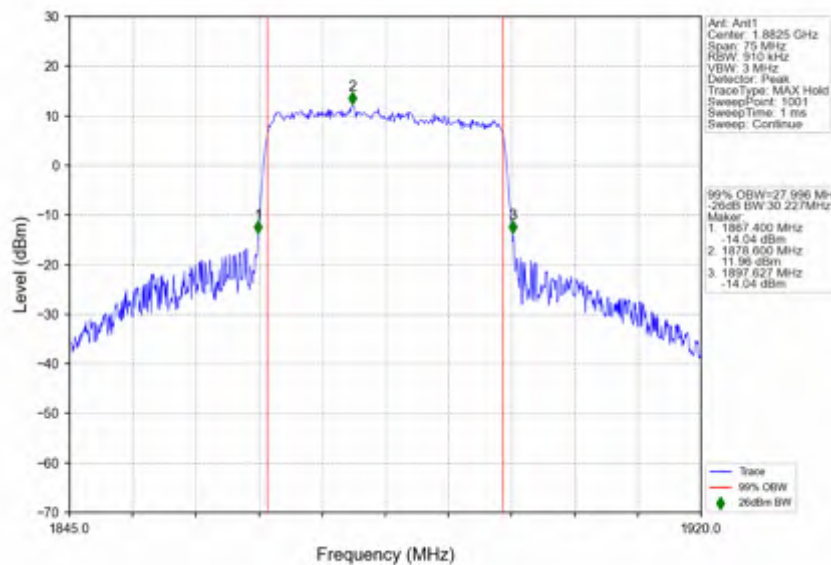
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n25_30kHz_SISO_NTNV_30MHz_CP-OFDM_16_QAM_1882.5MHz_Outer_Full

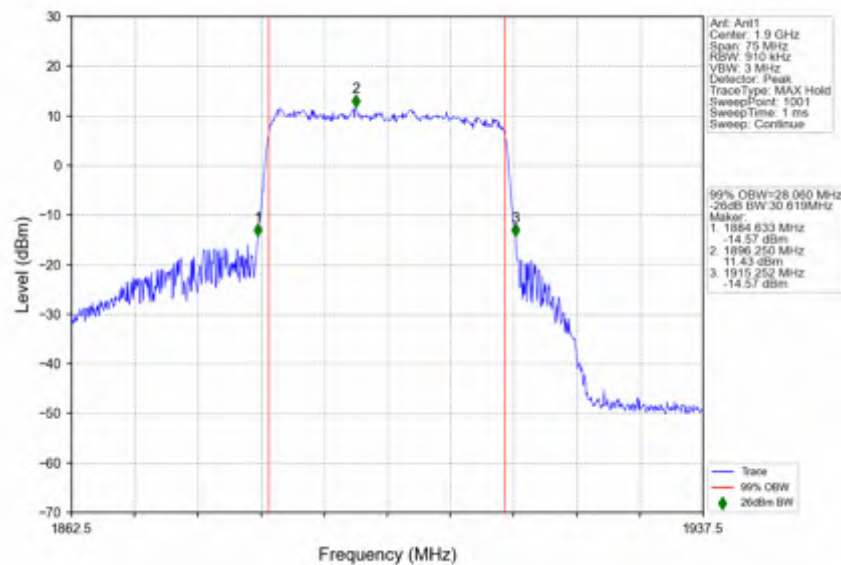


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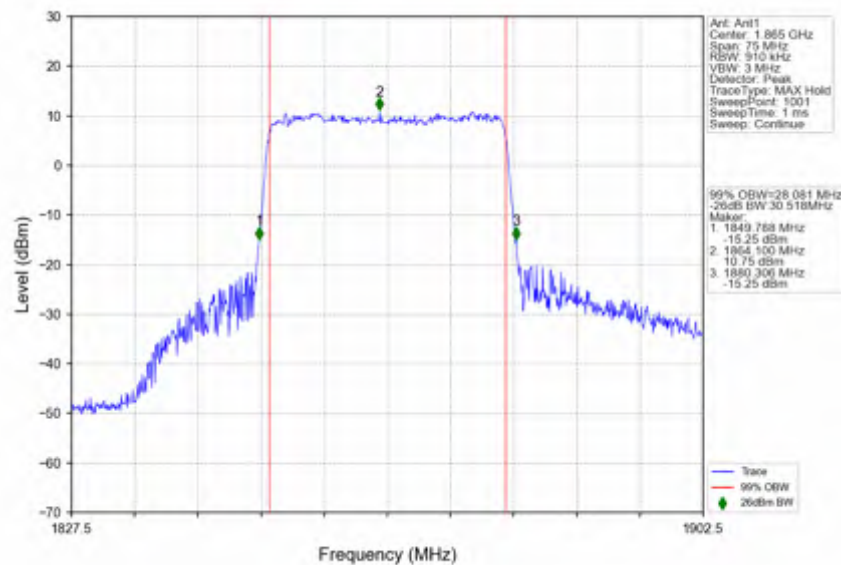
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n25_30kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_1900MHz_Outer_Full



n25_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_1865MHz_Outer_Full



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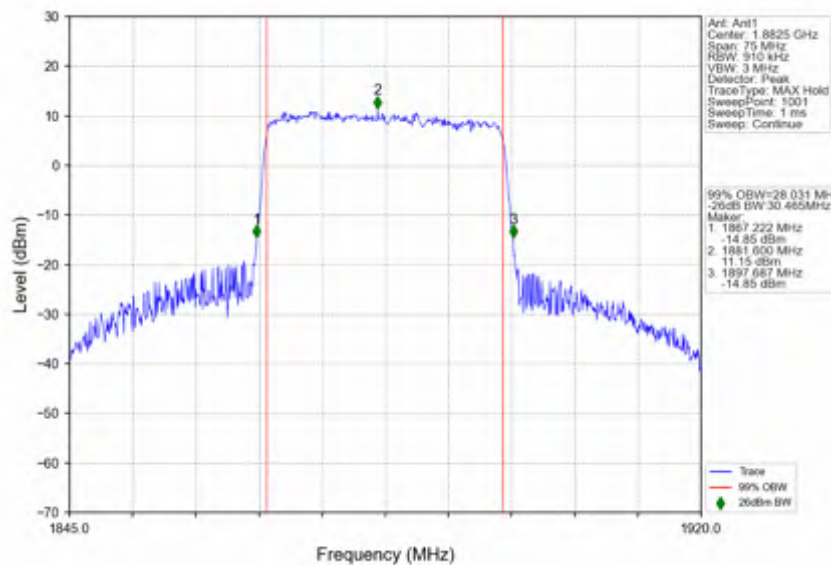
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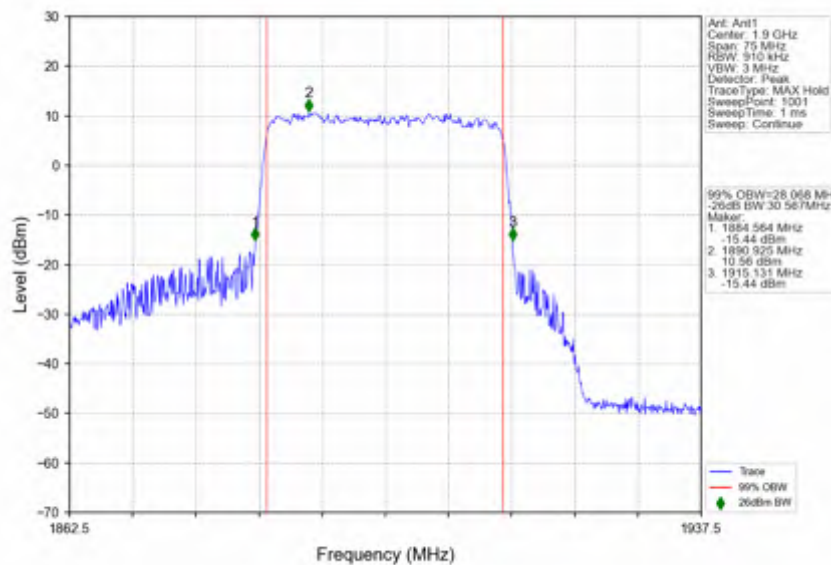
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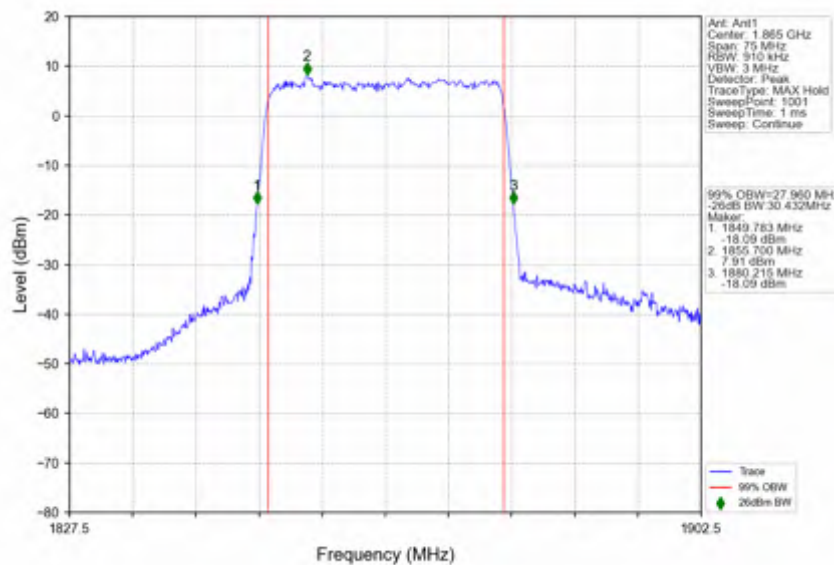


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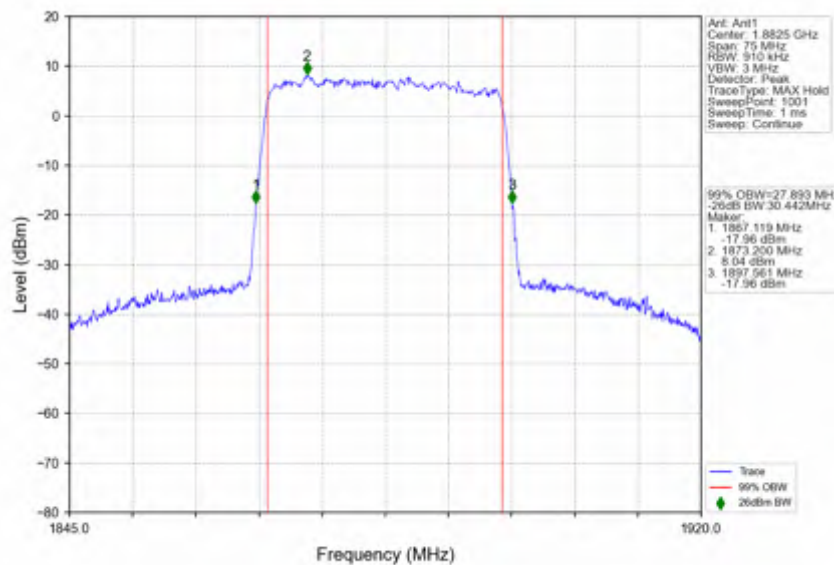
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n25_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_1882.5MHz_Outer_Full



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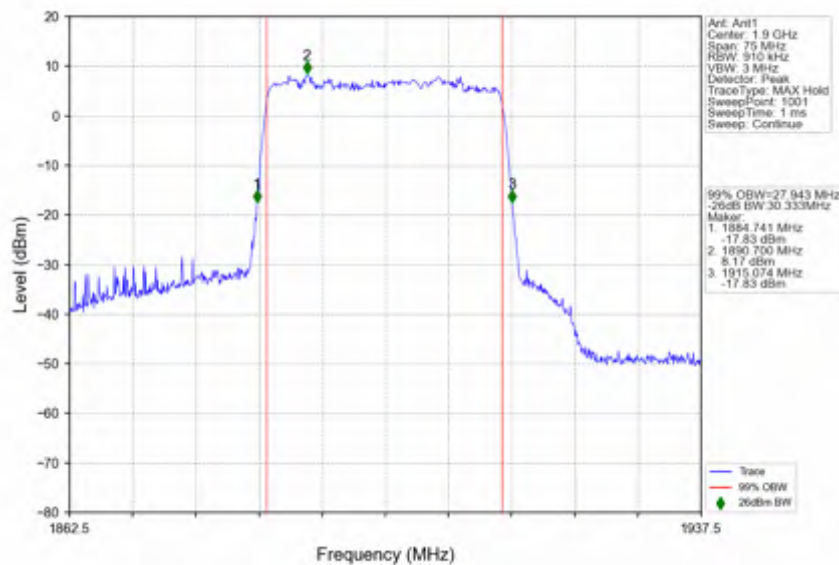
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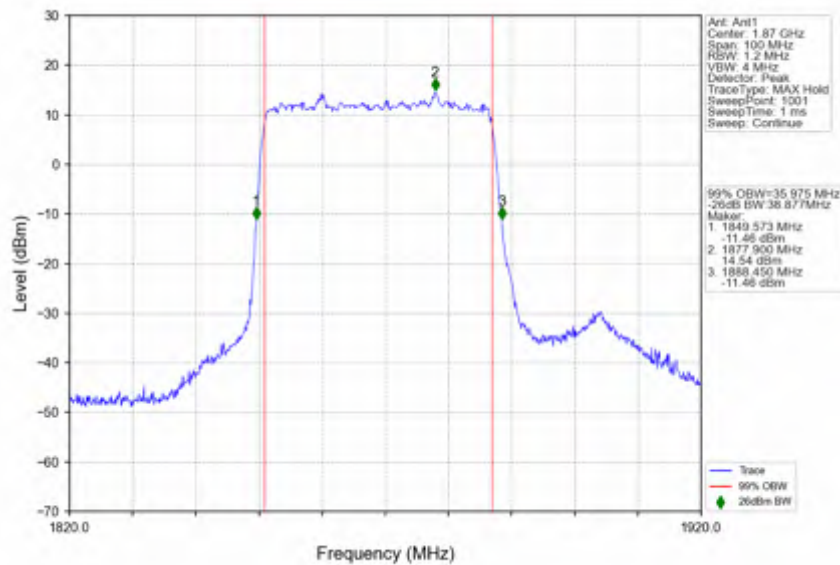
4.13 30k_SISO_40MHz_NTNV

4.13.1 Test Result

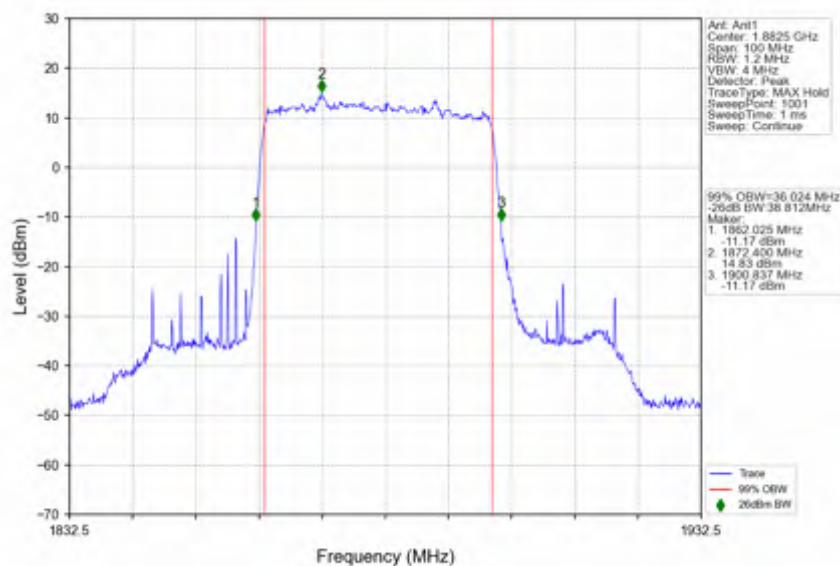
5G NR n25 SCS=30kHz SISO 40MHz NTNV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1870	Outer_Full	35.98	38.88	/	Pass
	1882.5	Outer_Full	36.02	38.81	/	Pass
	1895	Outer_Full	36.07	38.88	/	Pass
DFT-s-OFDM QPSK	1870	Outer_Full	35.94	39.23	/	Pass
	1882.5	Outer_Full	35.94	39.10	/	Pass
	1895	Outer_Full	36.02	39.06	/	Pass
DFT-s-OFDM 16 QAM	1870	Outer_Full	35.92	38.93	/	Pass
	1882.5	Outer_Full	35.92	38.77	/	Pass
	1895	Outer_Full	35.91	38.95	/	Pass
DFT-s-OFDM 64 QAM	1870	Outer_Full	35.87	38.95	/	Pass
	1882.5	Outer_Full	35.79	38.74	/	Pass
	1895	Outer_Full	35.95	38.85	/	Pass
DFT-s-OFDM 256 QAM	1870	Outer_Full	35.96	39.03	/	Pass
	1882.5	Outer_Full	35.94	38.84	/	Pass
	1895	Outer_Full	36.00	38.96	/	Pass
CP-OFDM QPSK	1870	Outer_Full	38.08	40.94	/	Pass
	1882.5	Outer_Full	38.02	41.01	/	Pass
	1895	Outer_Full	38.10	40.85	/	Pass
CP-OFDM 16 QAM	1870	Outer_Full	38.20	40.76	/	Pass
	1882.5	Outer_Full	38.22	41.00	/	Pass
	1895	Outer_Full	38.23	40.81	/	Pass
CP-OFDM 64 QAM	1870	Outer_Full	38.00	41.00	/	Pass
	1882.5	Outer_Full	38.08	40.76	/	Pass
	1895	Outer_Full	38.05	40.77	/	Pass
CP-OFDM 256 QAM	1870	Outer_Full	37.93	40.84	/	Pass
	1882.5	Outer_Full	37.93	40.89	/	Pass
	1895	Outer_Full	37.95	40.87	/	Pass

4.13.2 Test Graph

n25_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_PI/2_BPSK_1870MHz_Outer_Full



n25_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_PI/2_BPSK_1882.5MHz_Outer_Full



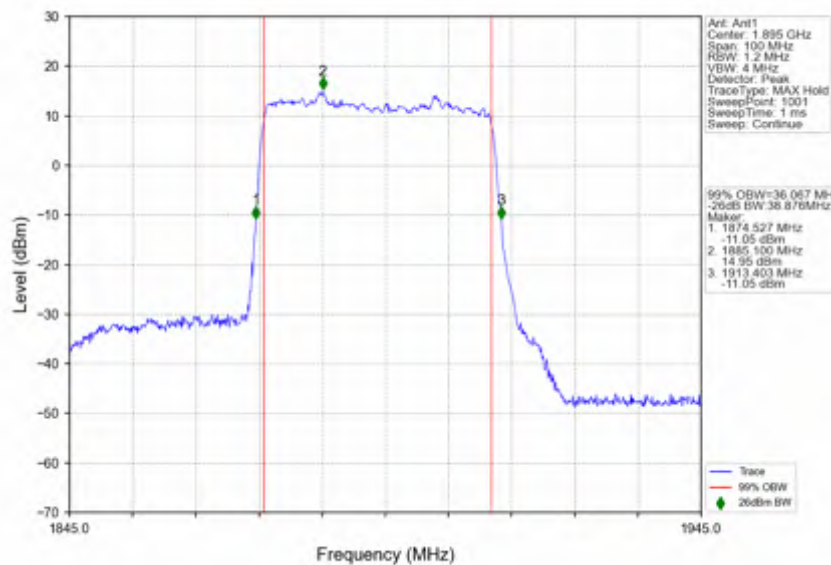
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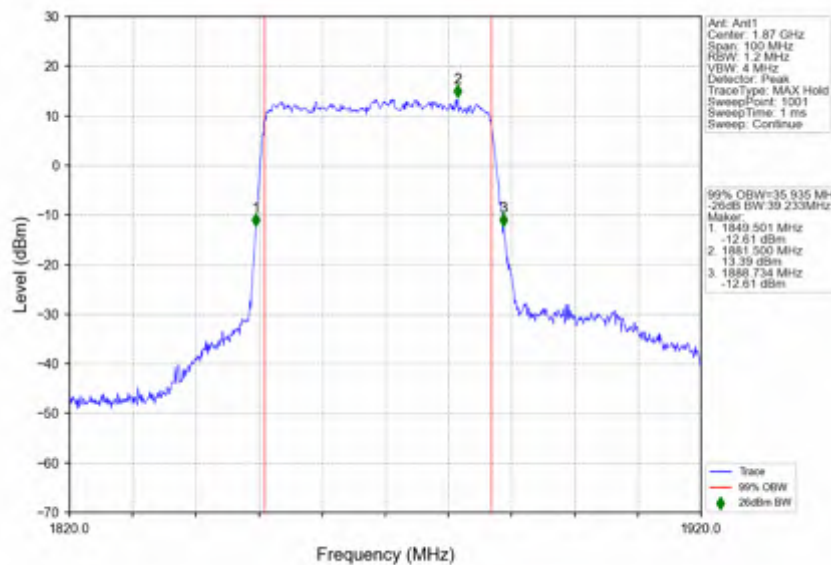
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n25_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_PI/2_BPSK_1895MHz_Outer_Full



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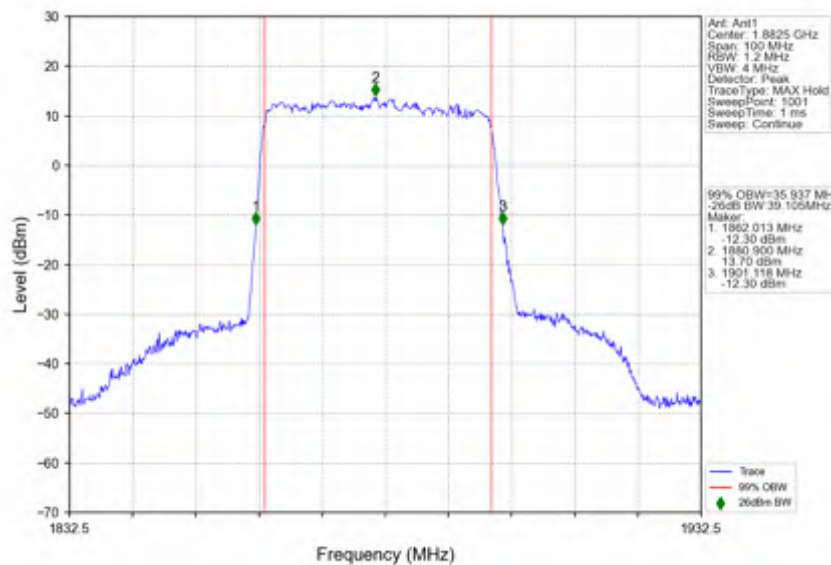


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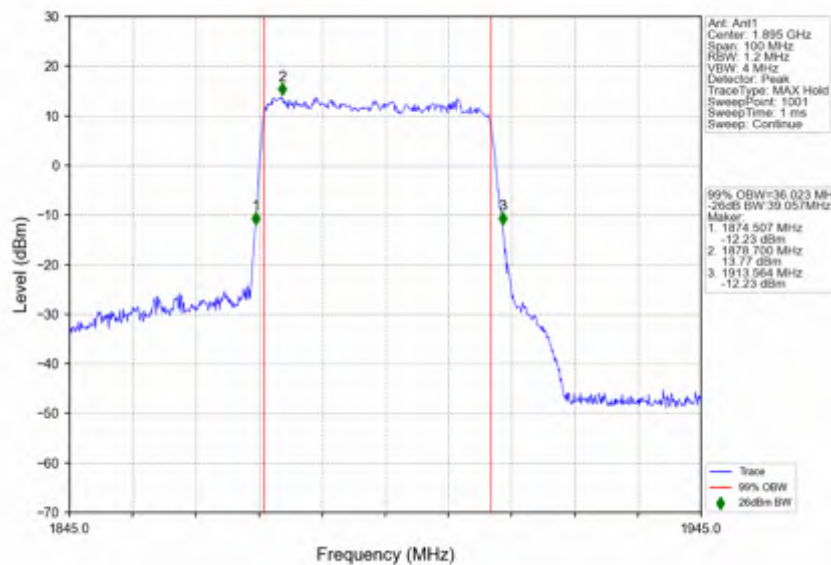
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n25_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_QPSK_1882.5MHz_Outer_Full



n25_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_QPSK_1895MHz_Outer_Full



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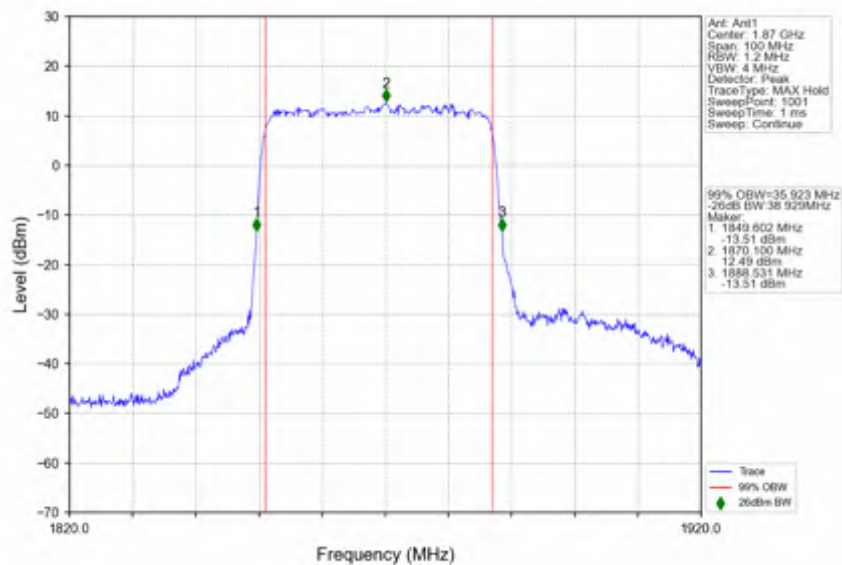
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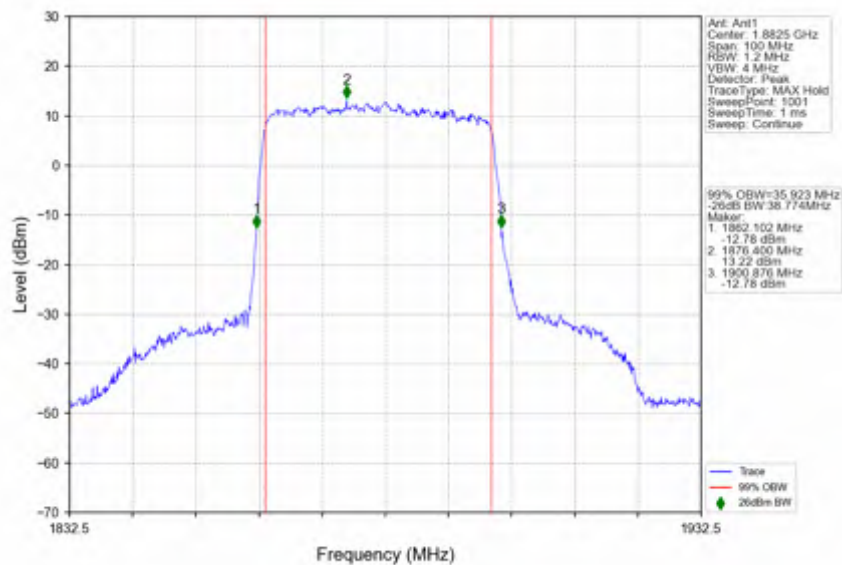
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n25 30kHz SISO NTNv 40MHz DFT-s-OFDM 16 QAM 1870MHz Outer Full



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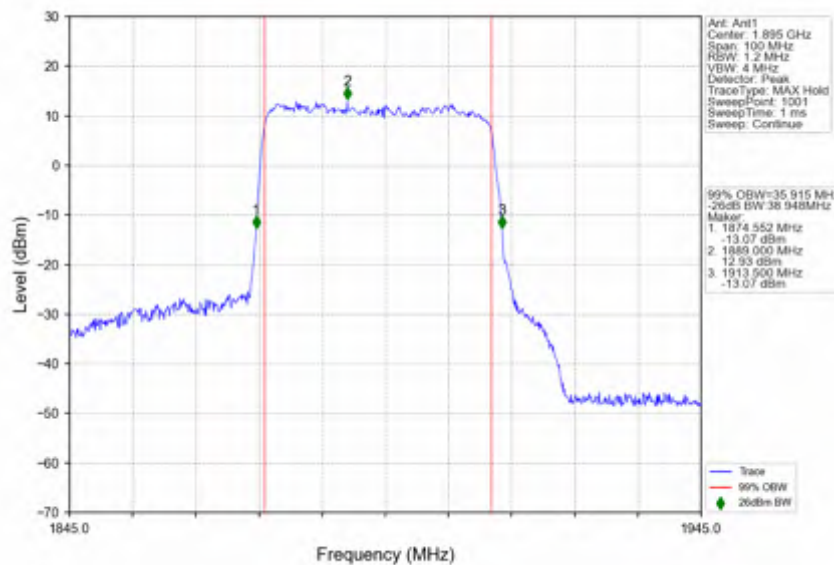


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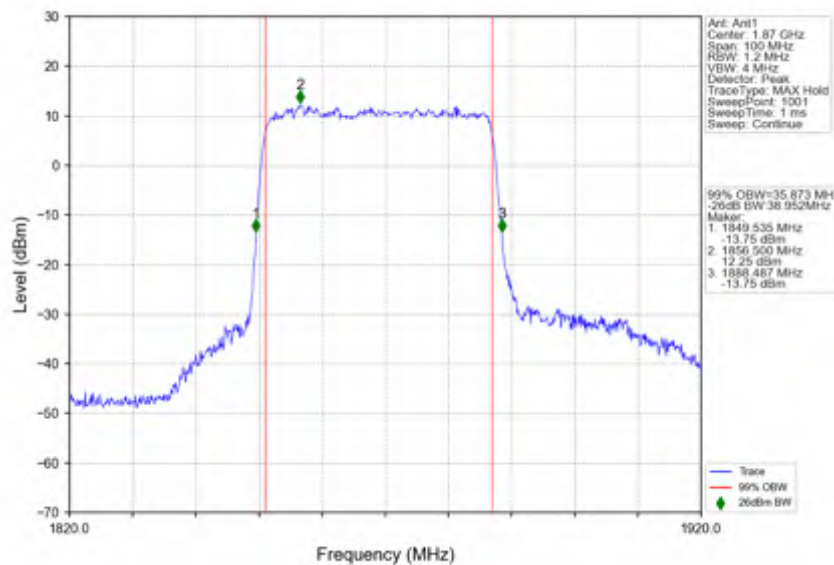
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n25 30kHz SISO NTNV 40MHz DFT-s-OFDM 16 QAM 1895MHz Outer Full



n25 30kHz SISO NTV 40MHz DFT-s-OFDM 64 QAM 1870MHz Outer Full

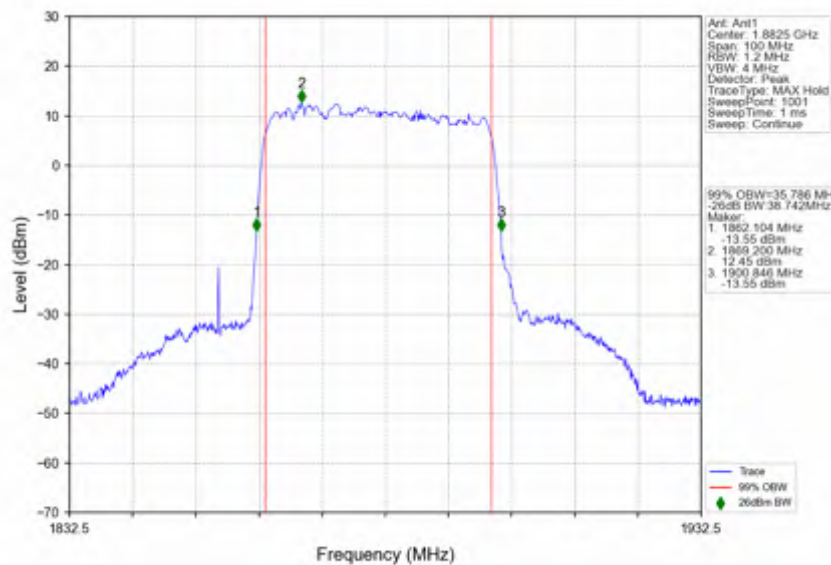


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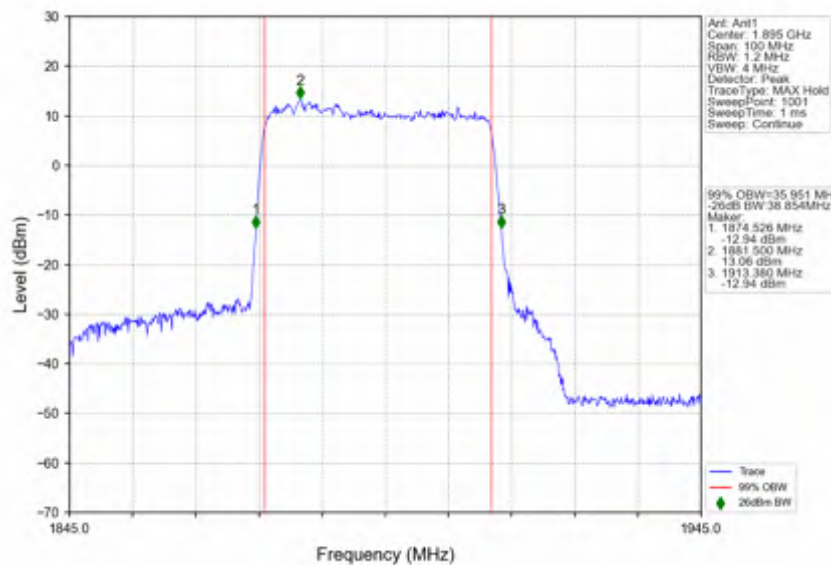
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n25_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_1895MHz_Outer_Full



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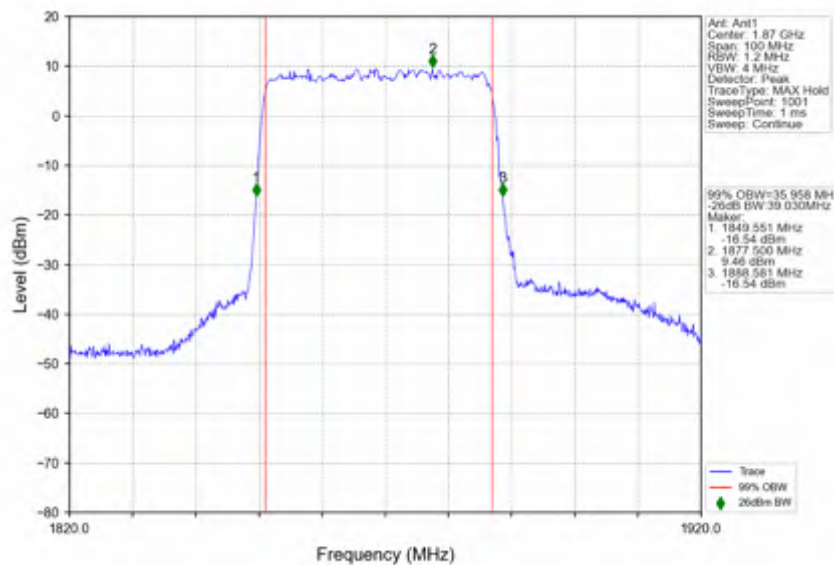
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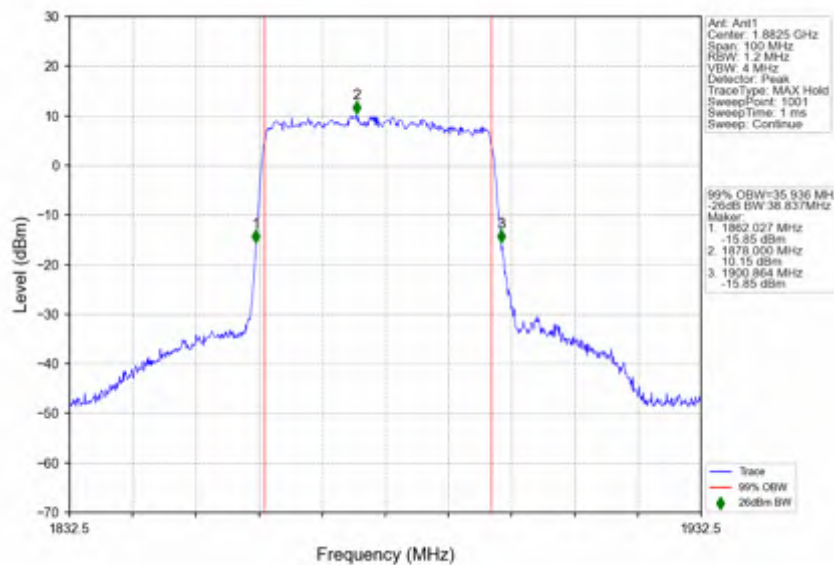
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n25_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_1870MHz_Outer_Full



n25_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_1882.5MHz_Outer_Full



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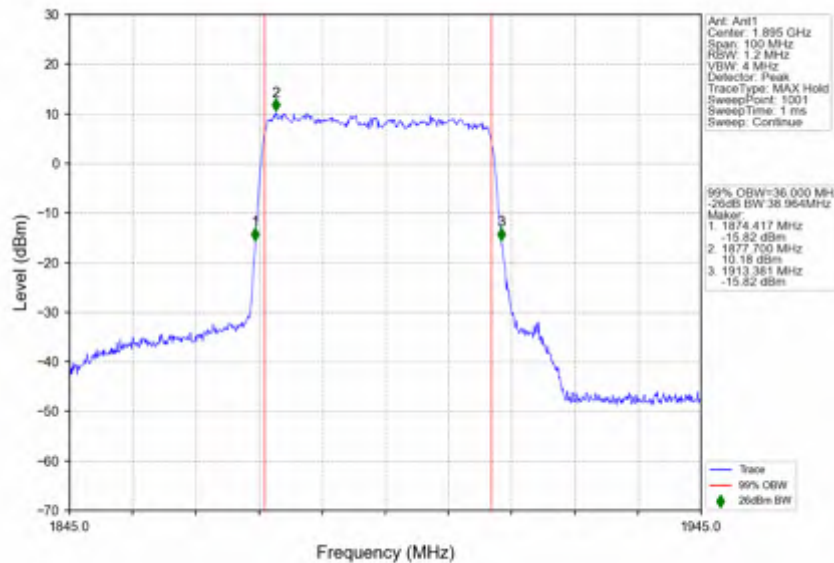
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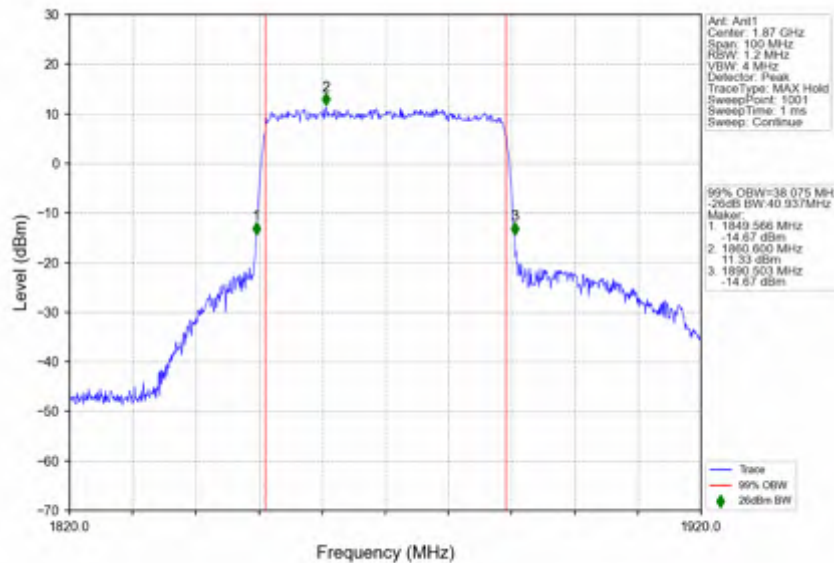
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n25_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM_1895MHz_Outer_Full



n25_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_1870MHz_Outer_Full



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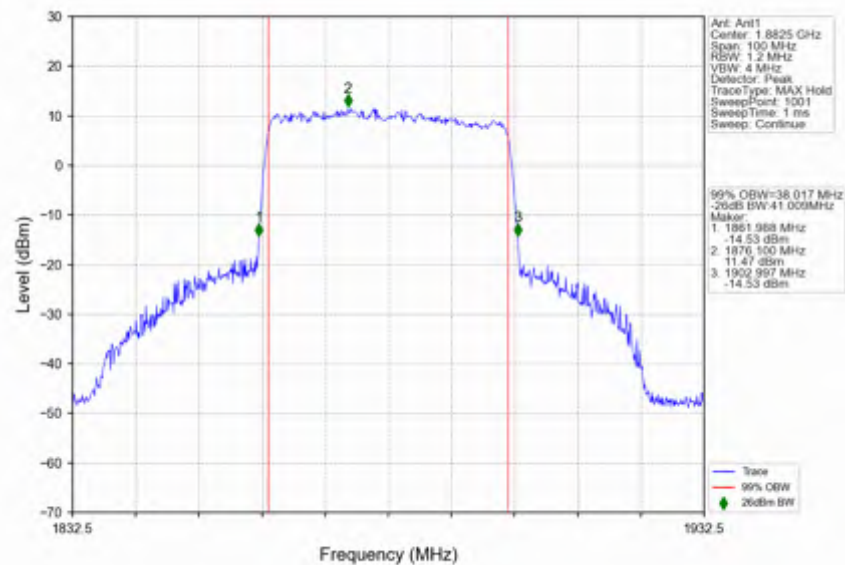
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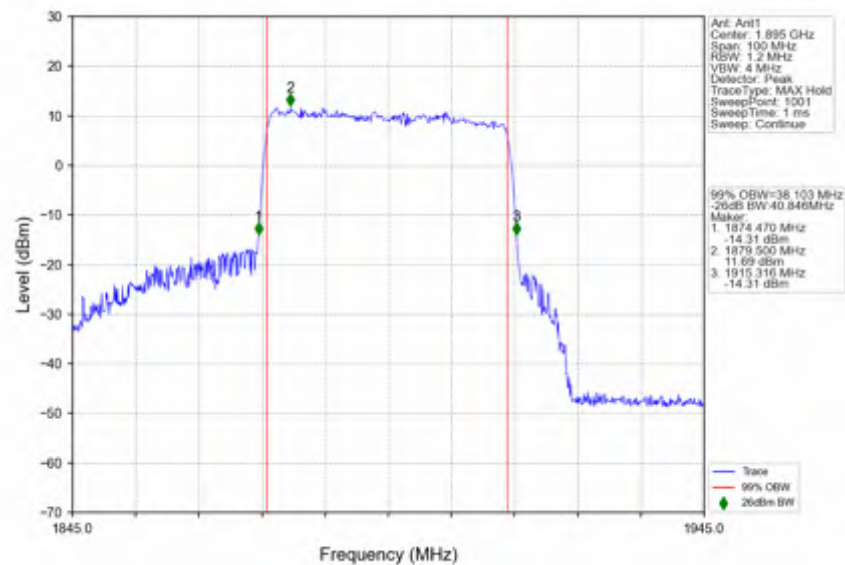
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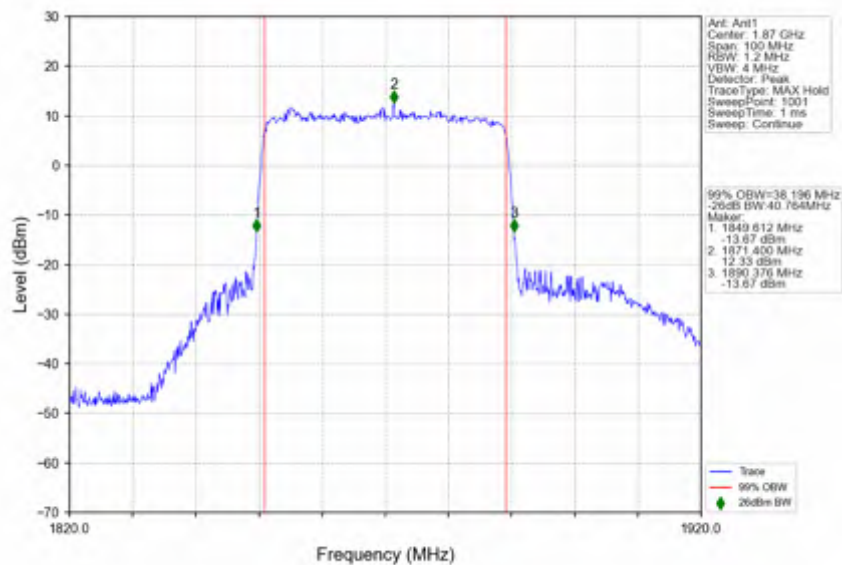
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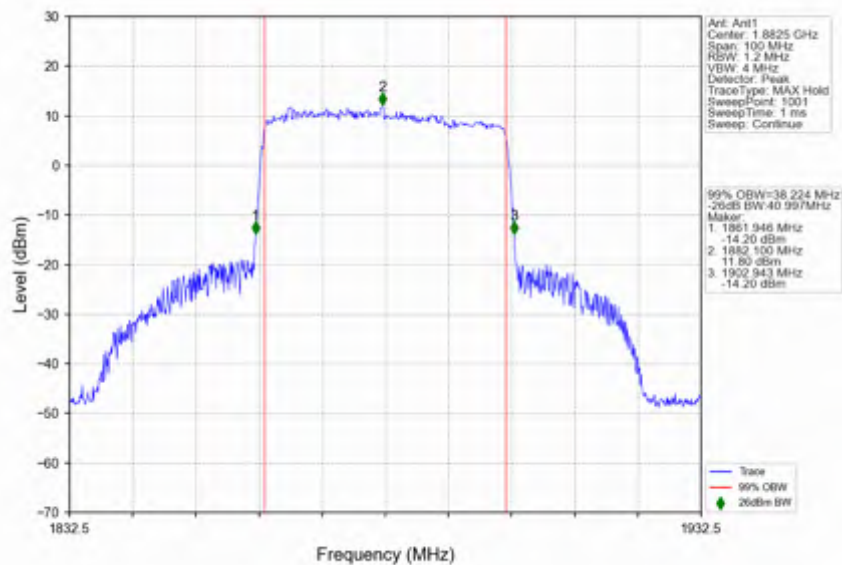
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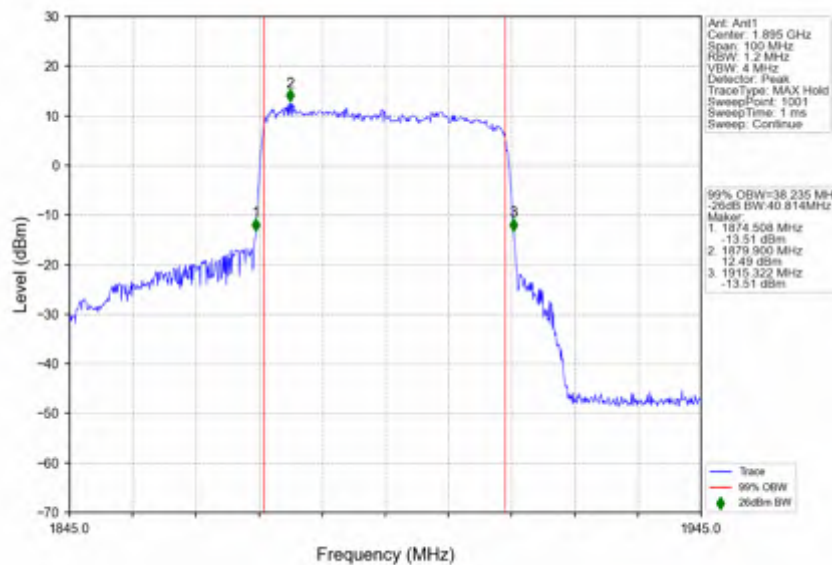
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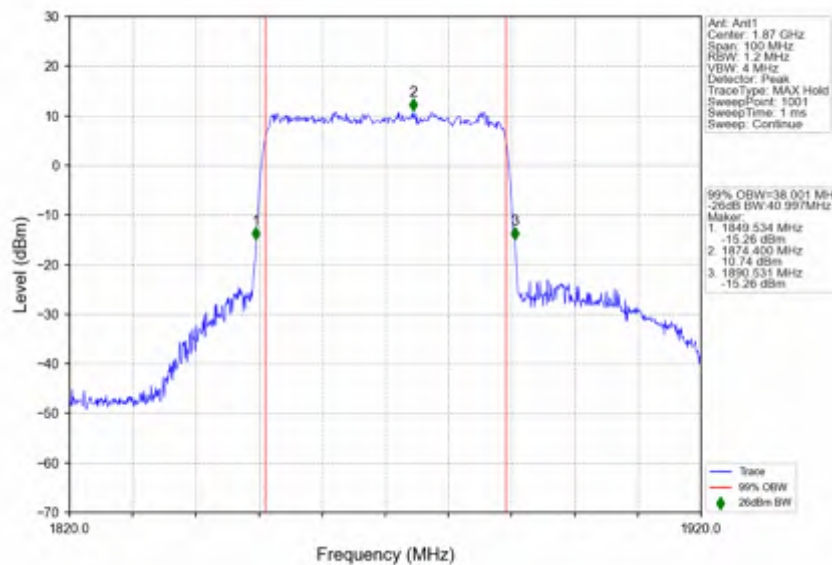
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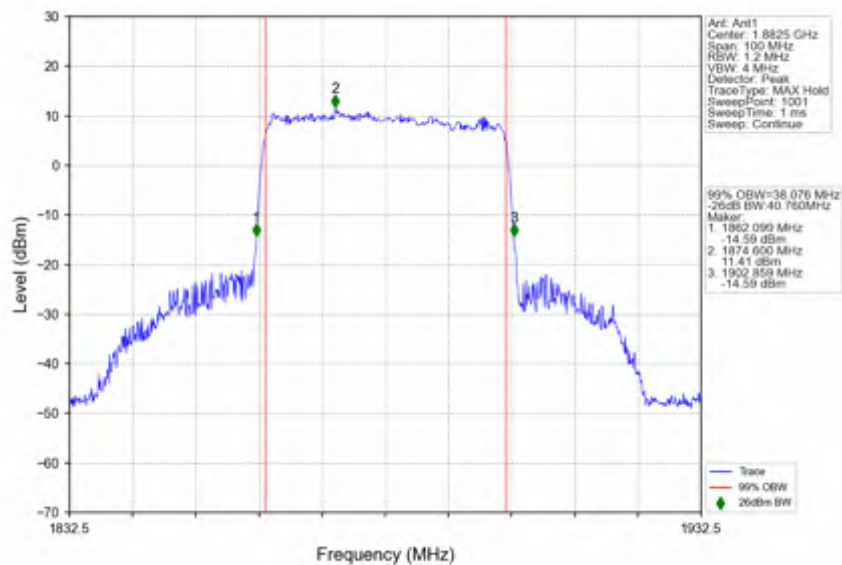
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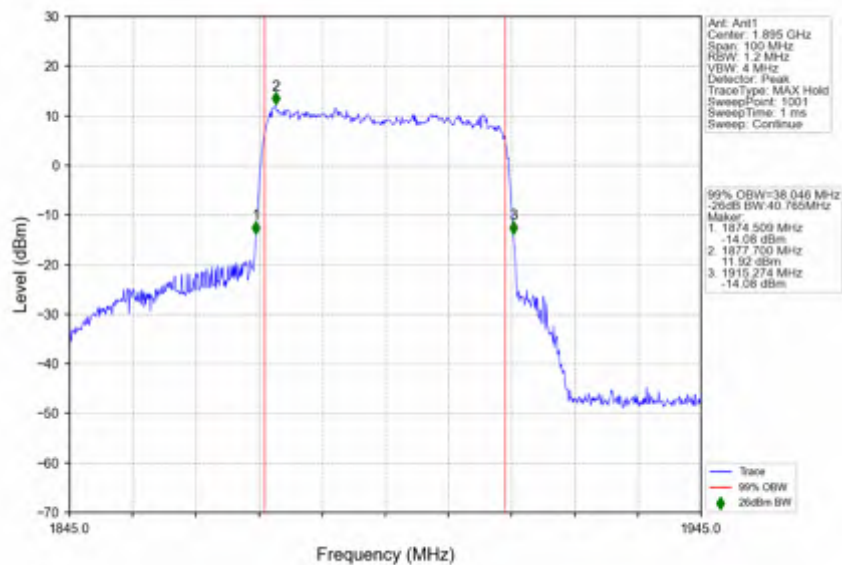
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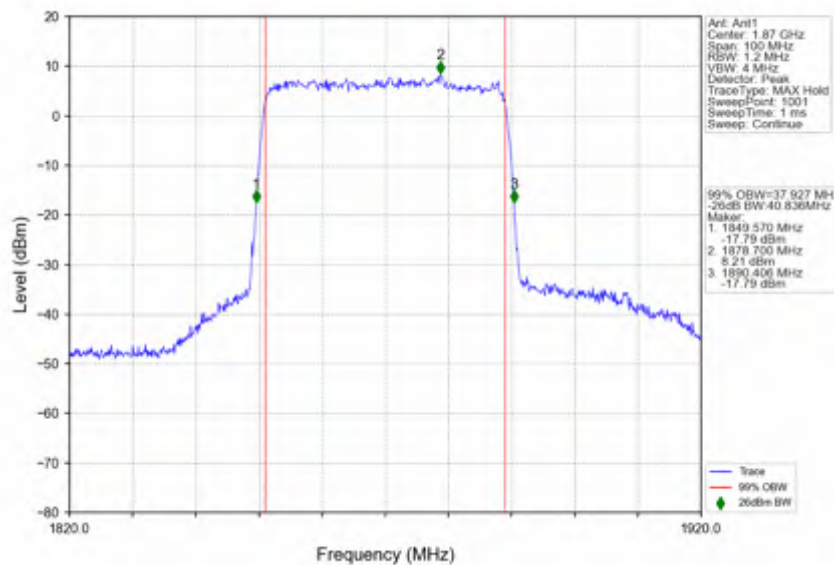
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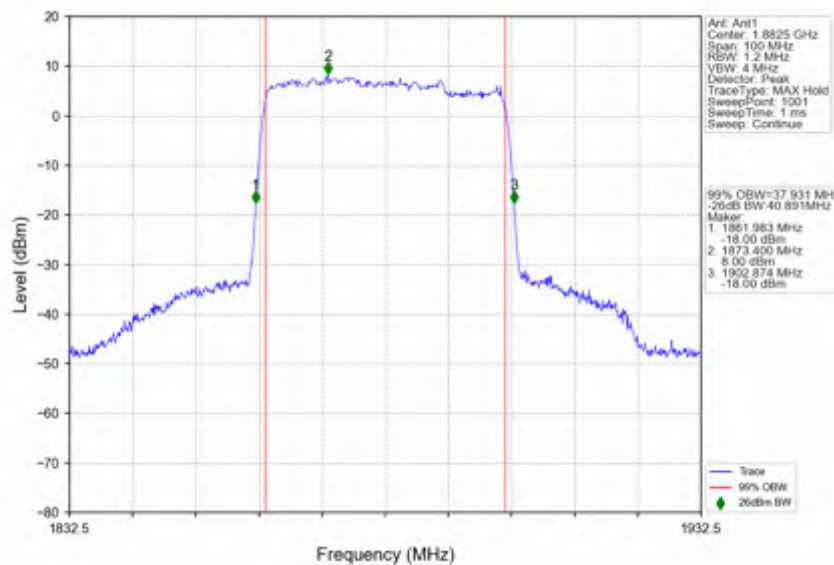
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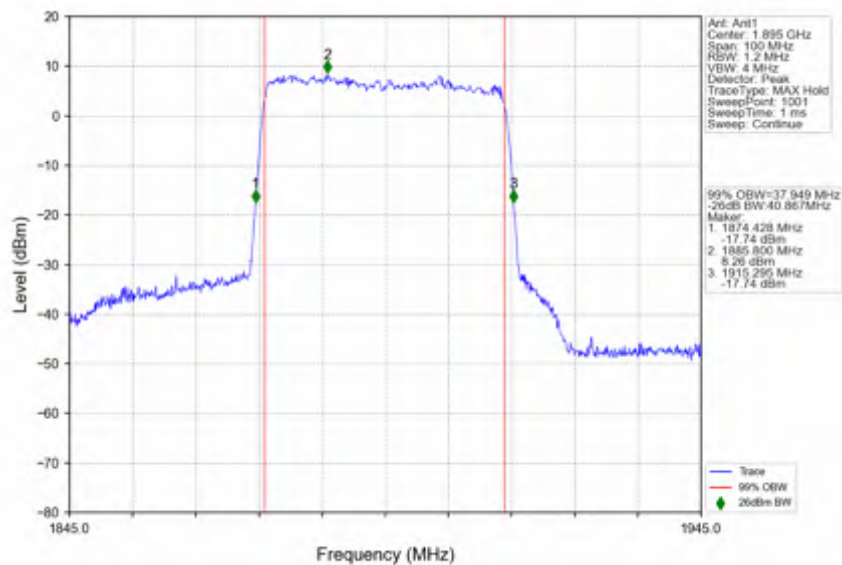
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n25_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_1895MHz_Outer_Full



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5. 99% & 26dB Bandwidth

5.1 n38 15k_SISO_5MHz_NTNV

5.1.1 Test Result

Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2572.5	Outer Full	4.55	5.23	/	Pass
	2595	Outer Full	4.52	5.00	/	Pass
	2617.5	Outer Full	4.55	5.00	/	Pass
DFT-s-OFDM QPSK	2572.5	Outer Full	4.53	5.02	/	Pass
	2595	Outer Full	4.53	5.02	/	Pass
	2617.5	Outer Full	4.52	5.01	/	Pass
DFT-s-OFDM 16 QAM	2572.5	Outer Full	4.51	4.99	/	Pass
	2595	Outer Full	4.53	5.20	/	Pass
	2617.5	Outer Full	4.53	5.16	/	Pass
DFT-s-OFDM 64 QAM	2572.5	Outer Full	4.55	5.09	/	Pass
	2595	Outer Full	4.53	5.04	/	Pass
	2617.5	Outer Full	4.53	4.98	/	Pass
DFT-s-OFDM 256 QAM	2572.5	Outer Full	4.55	5.24	/	Pass
	2595	Outer Full	4.52	5.16	/	Pass
	2617.5	Outer Full	4.54	5.09	/	Pass
CP-OFDM QPSK	2572.5	Outer Full	4.52	5.00	/	Pass
	2595	Outer Full	4.50	5.11	/	Pass
	2617.5	Outer Full	4.52	5.01	/	Pass
CP-OFDM 16 QAM	2572.5	Outer Full	4.54	5.07	/	Pass
	2595	Outer Full	4.54	5.42	/	Pass
	2617.5	Outer Full	4.52	5.32	/	Pass
CP-OFDM 64 QAM	2572.5	Outer Full	4.52	5.13	/	Pass
	2595	Outer Full	4.53	4.99	/	Pass
	2617.5	Outer Full	4.53	5.04	/	Pass
CP-OFDM 256 QAM	2572.5	Outer Full	4.51	5.12	/	Pass
	2595	Outer Full	4.51	5.19	/	Pass
	2617.5	Outer Full	4.52	4.96	/	Pass



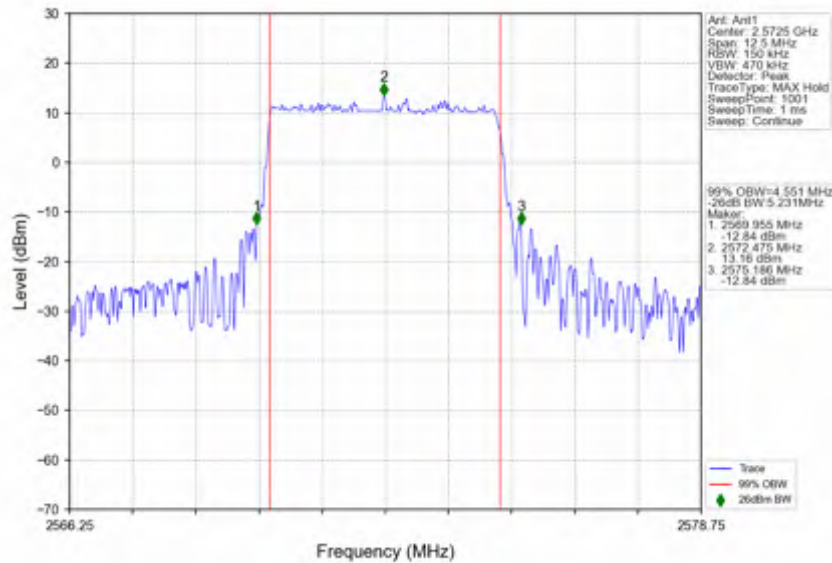
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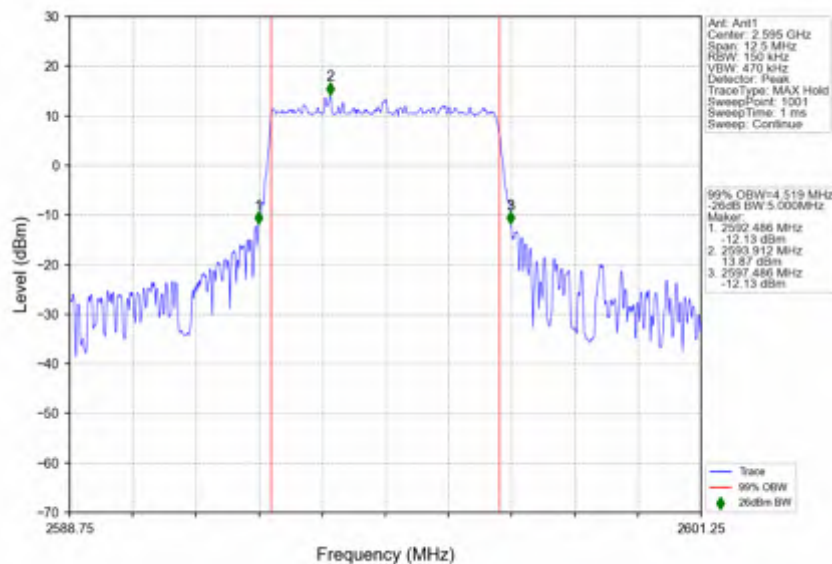
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5.1.2 Test Graph

n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2572.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2595MHz_Outer_Full

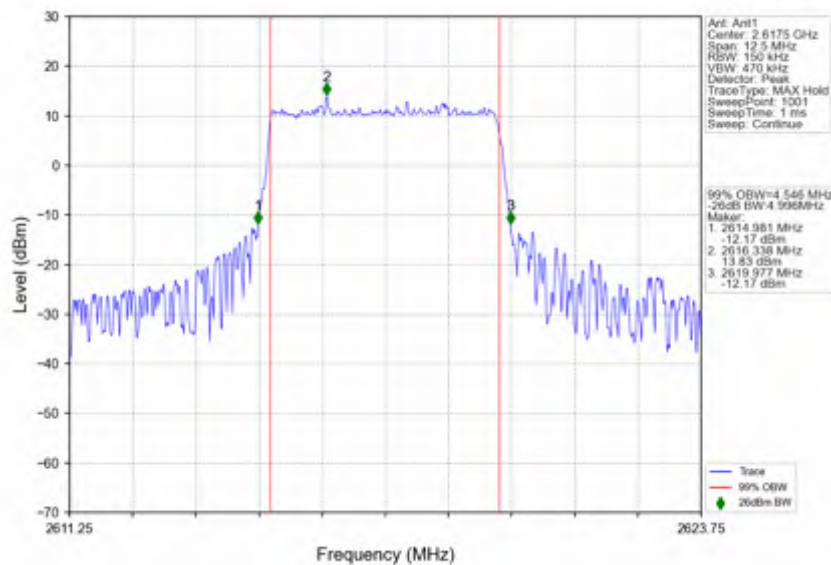


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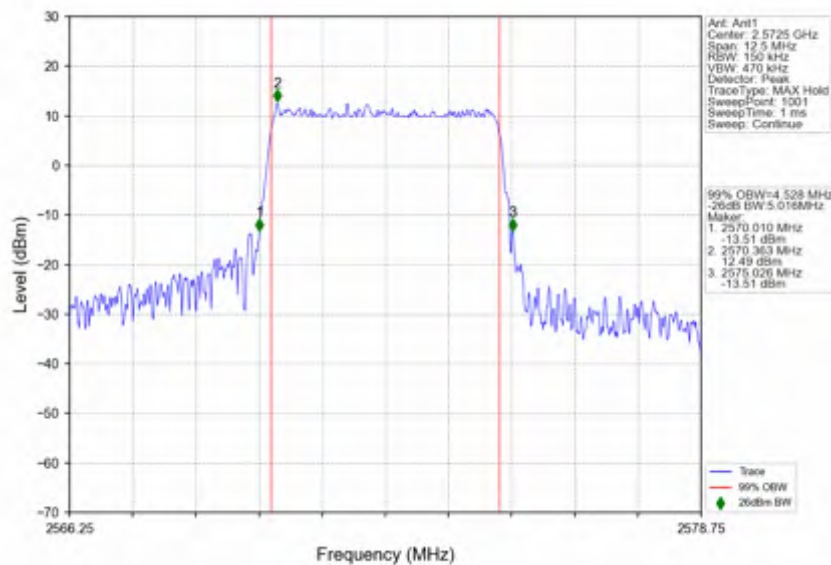
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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_2617.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2572.5MHz_Outer_Full



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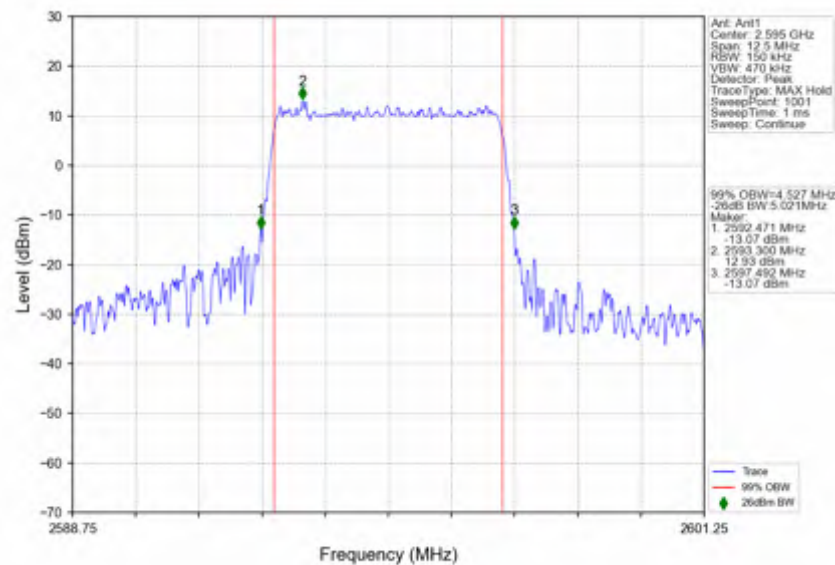
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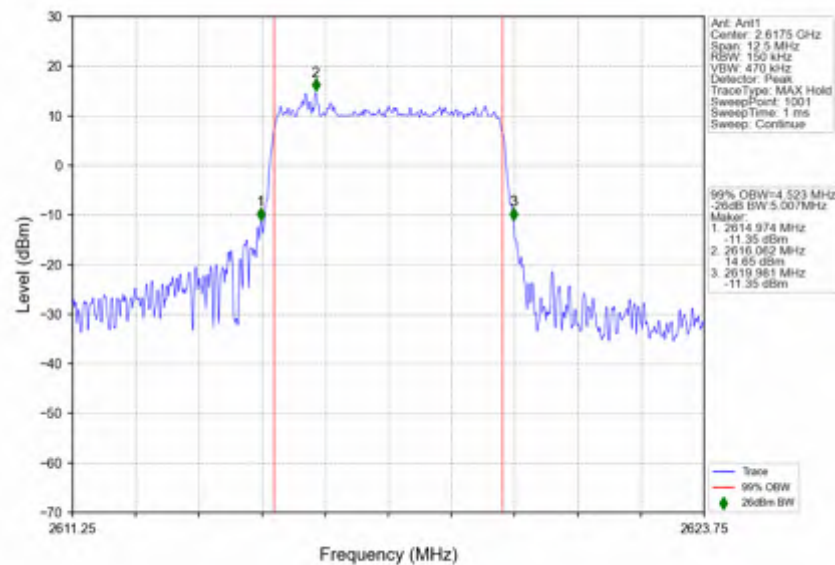
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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2595MHz_Outer_Full



n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM QPSK_2617.5MHz_Outer_Full



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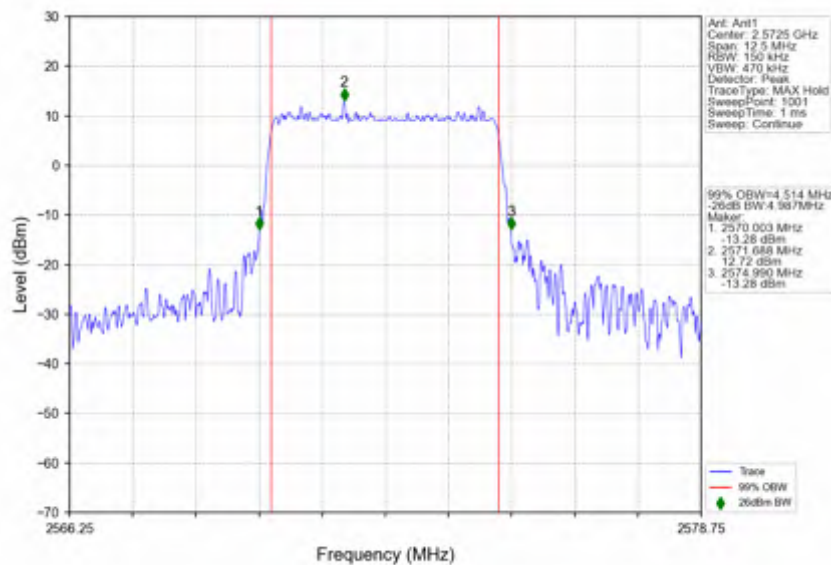
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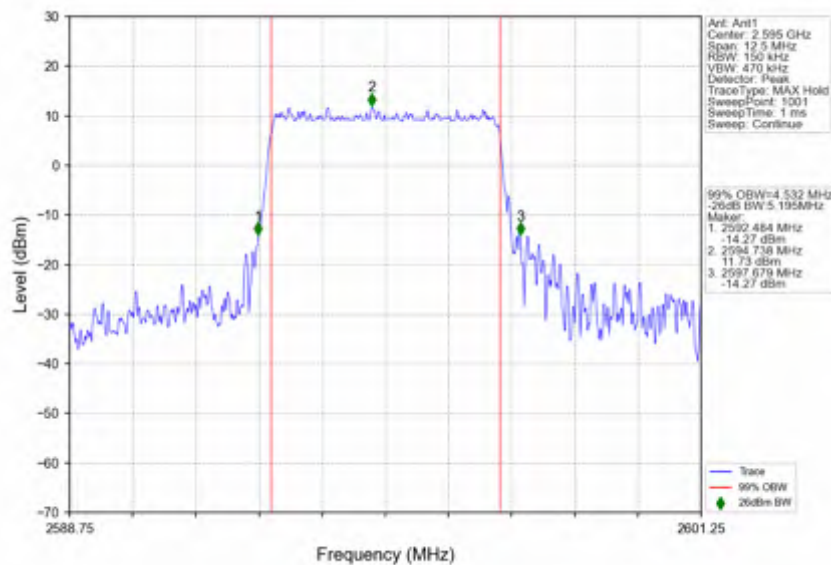
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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_16_QAM_2572.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_16_QAM_2595MHz_Outer_Full



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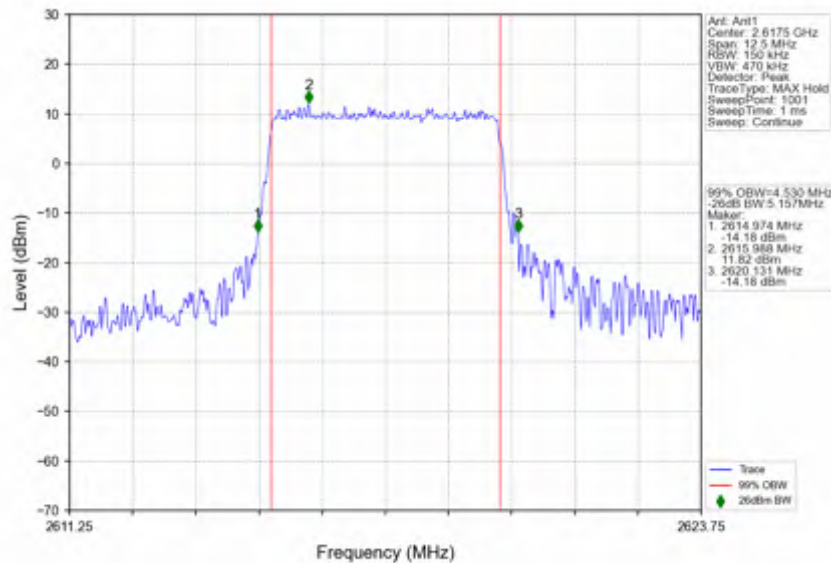
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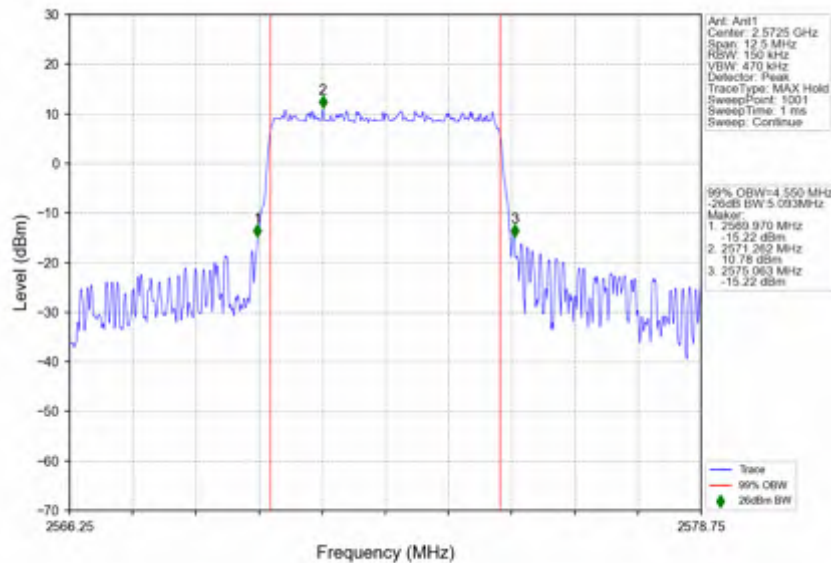
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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_16_QAM_2617.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_64_QAM_2572.5MHz_Outer_Full



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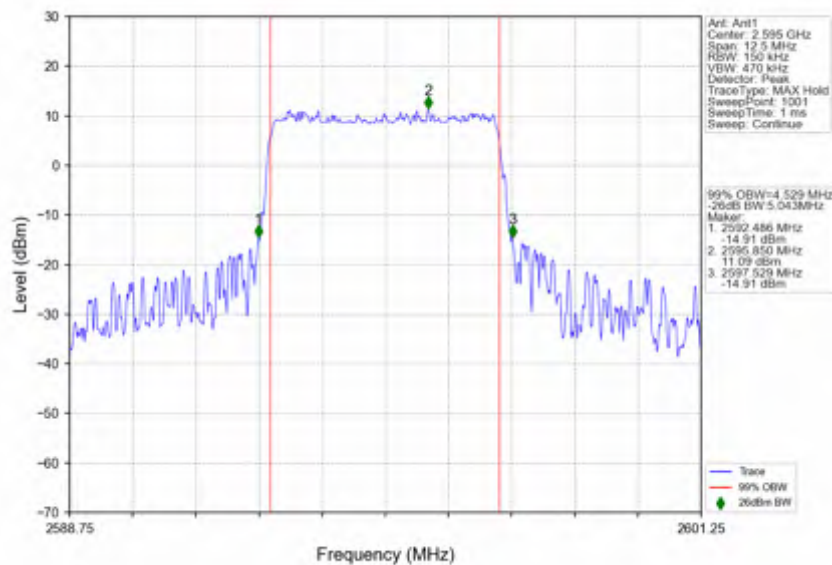
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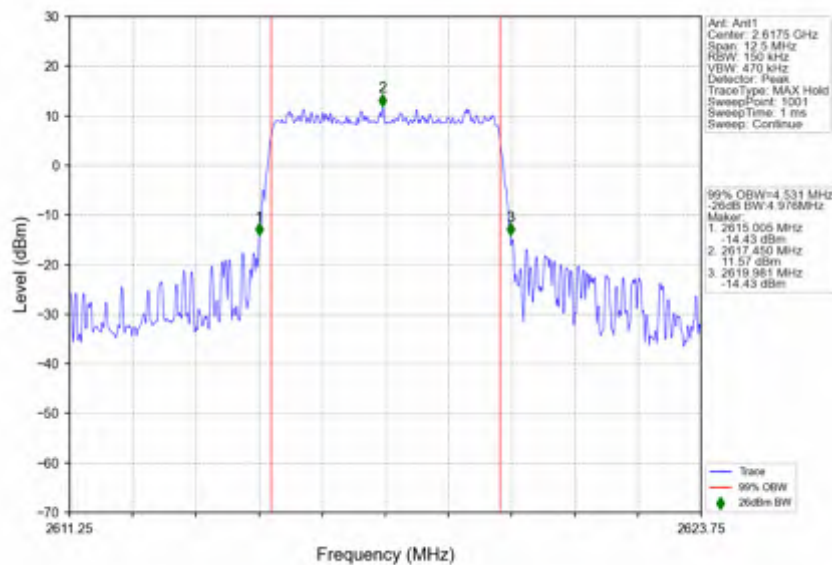
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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 64 QAM_2595MHz_Outer_Full



n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM 64 QAM_2617.5MHz_Outer_Full



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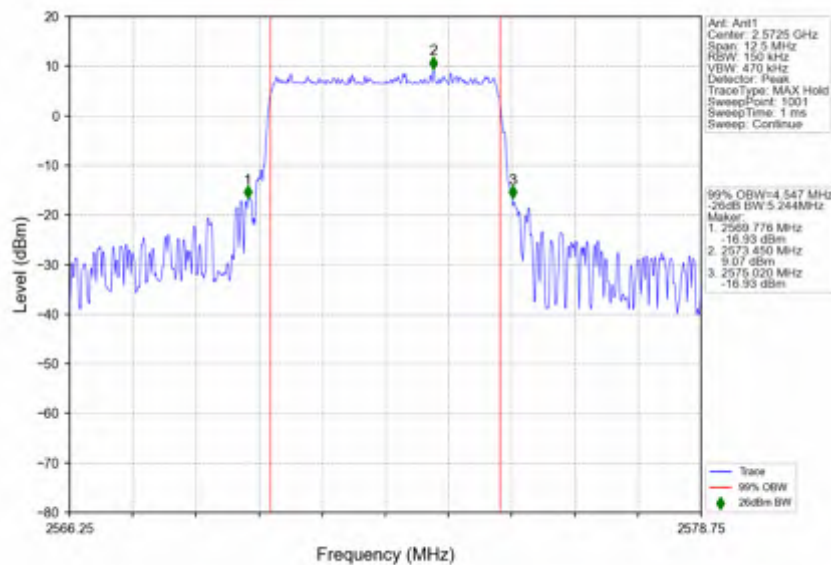
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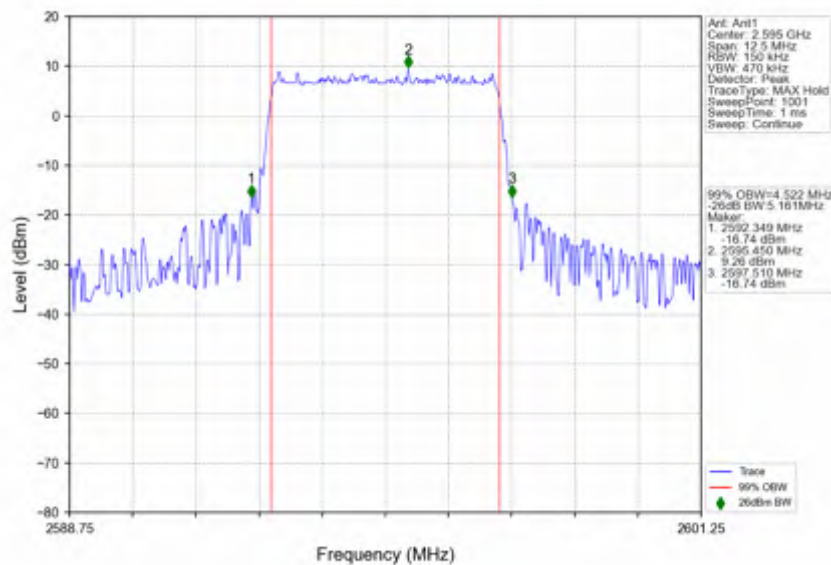
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n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_256_QAM_2572.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM_256_QAM_2595MHz_Outer_Full



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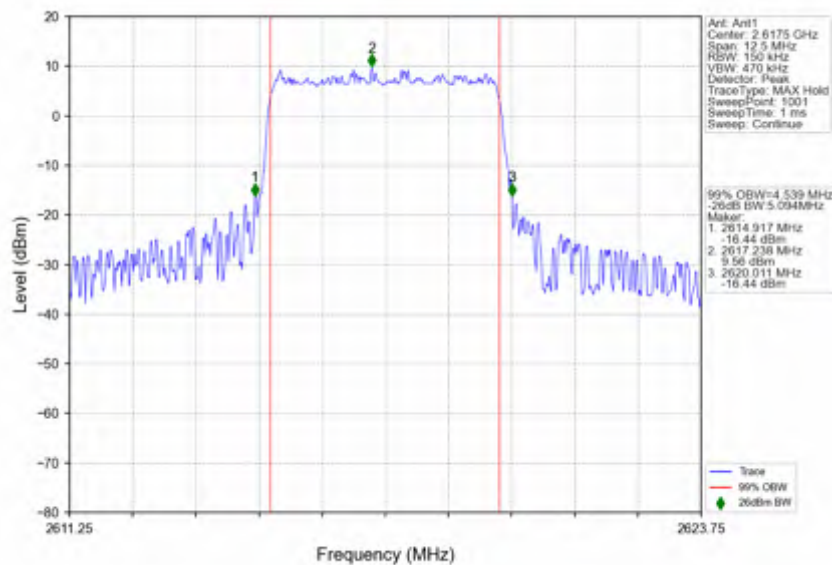
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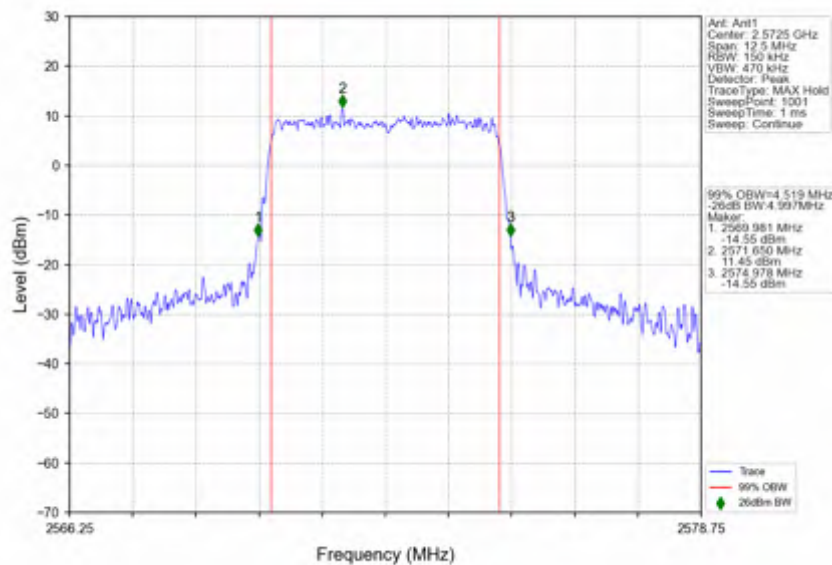
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n38_15kHz_SISO_NTNV_5MHz_CP-OFDM QPSK_2572.5MHz_Outer_Full



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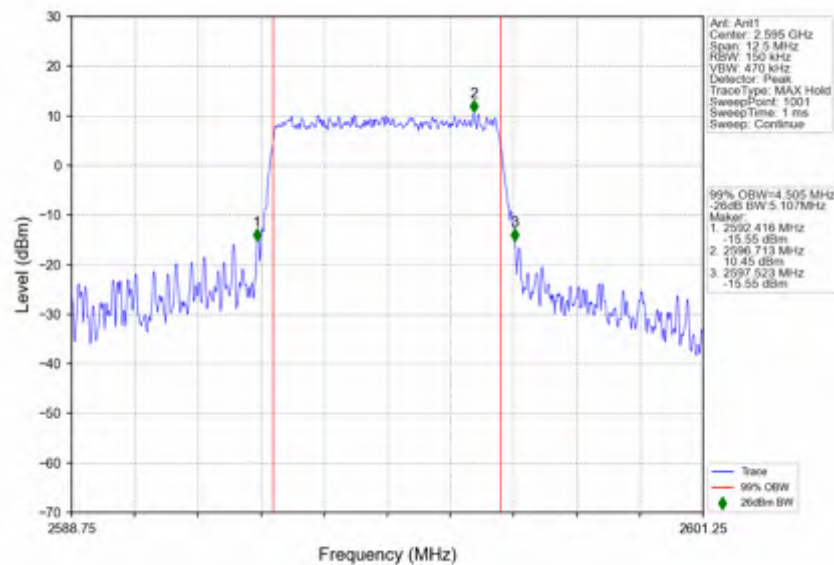
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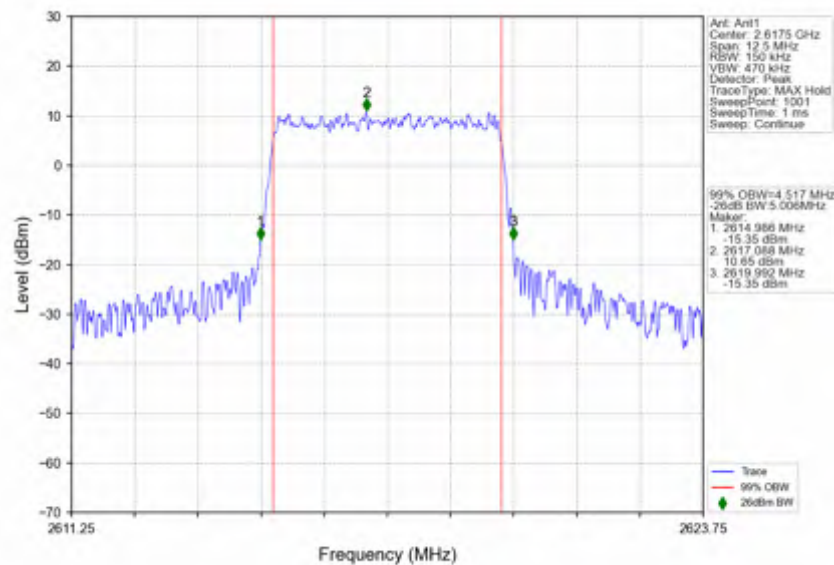
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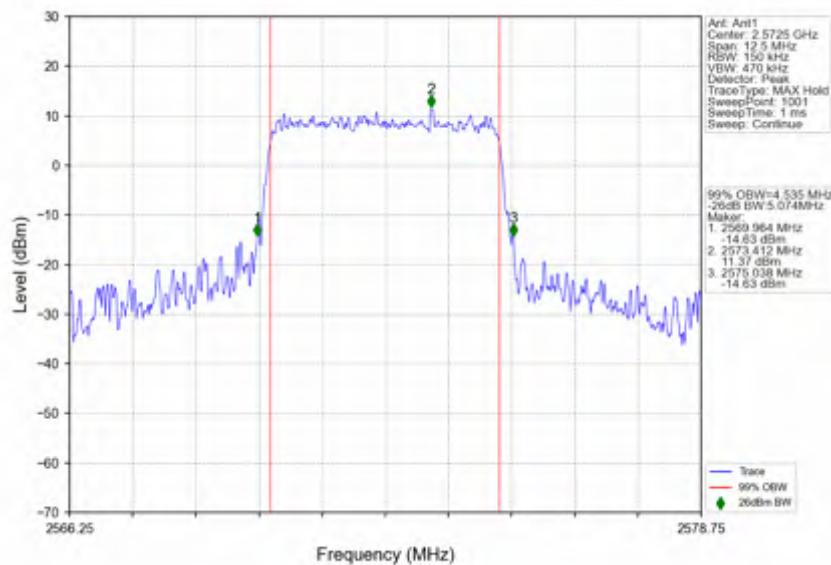
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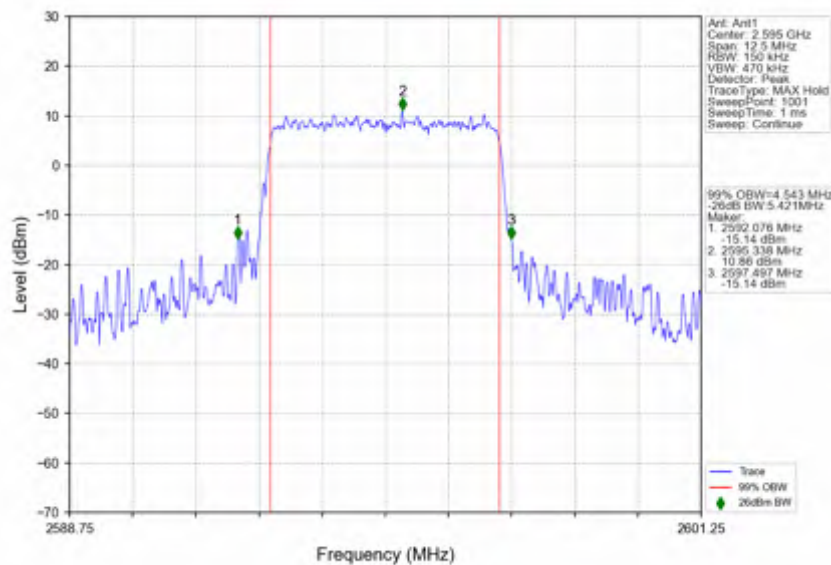
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n38_15kHz_SISO_NTNV_5MHz_CP-OFDM 16 QAM_2572.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_5MHz_CP-OFDM 16 QAM_2595MHz_Outer_Full



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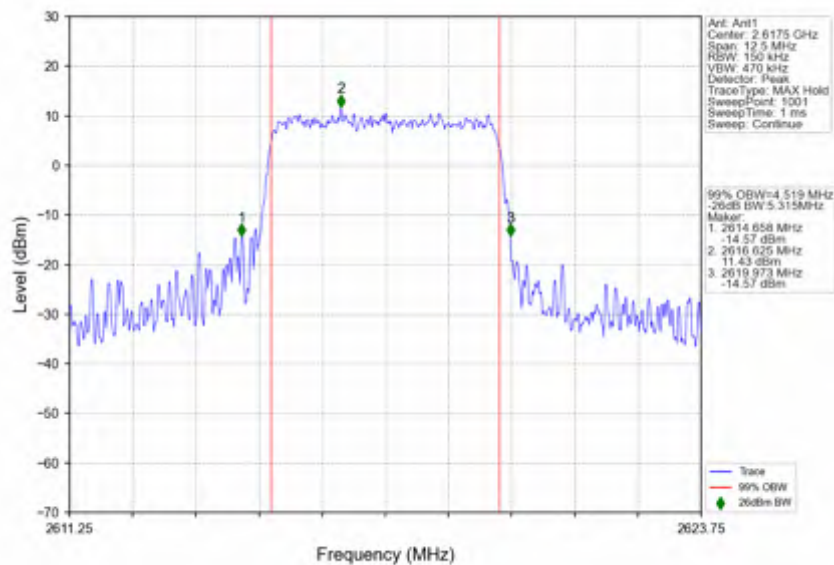
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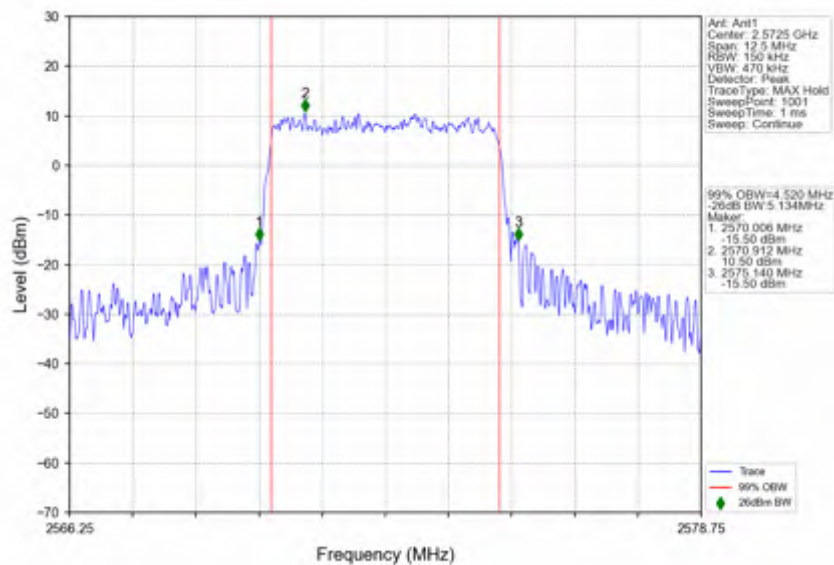
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n38_15kHz_SISO_NTNV_5MHz_CP-OFDM_16 QAM_2617.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_5MHz_CP-OFDM_64 QAM_2572.5MHz_Outer_Full



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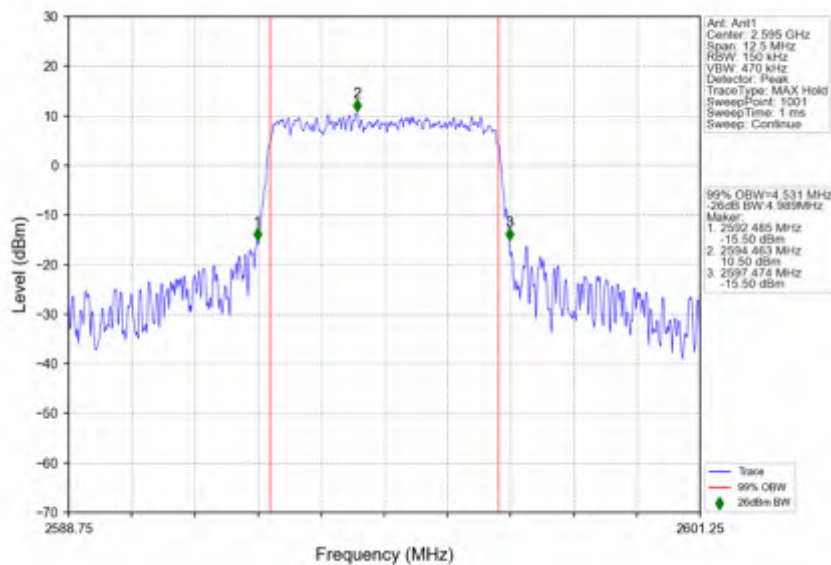
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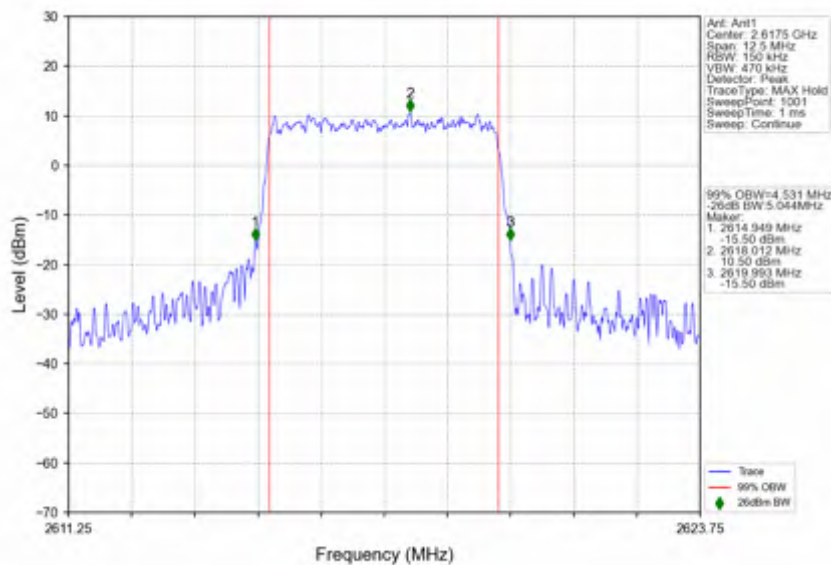
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n38_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM_2595MHz_Outer_Full



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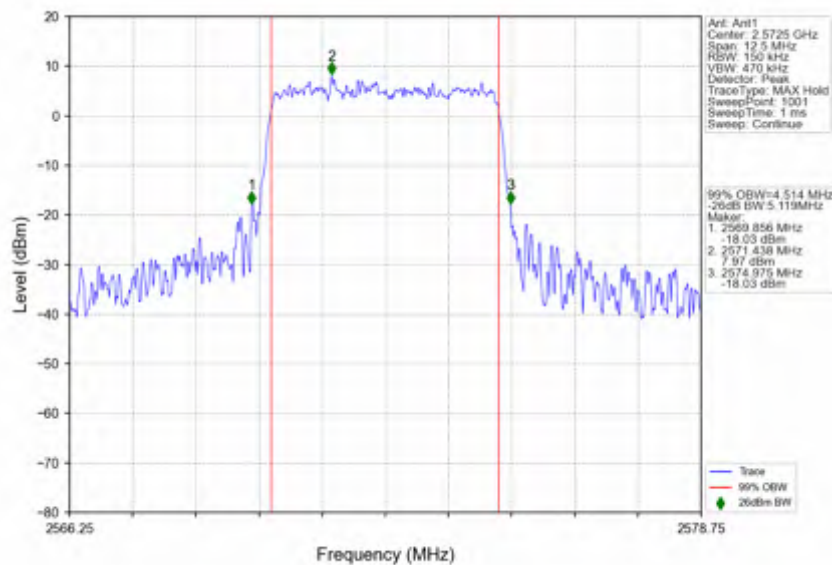
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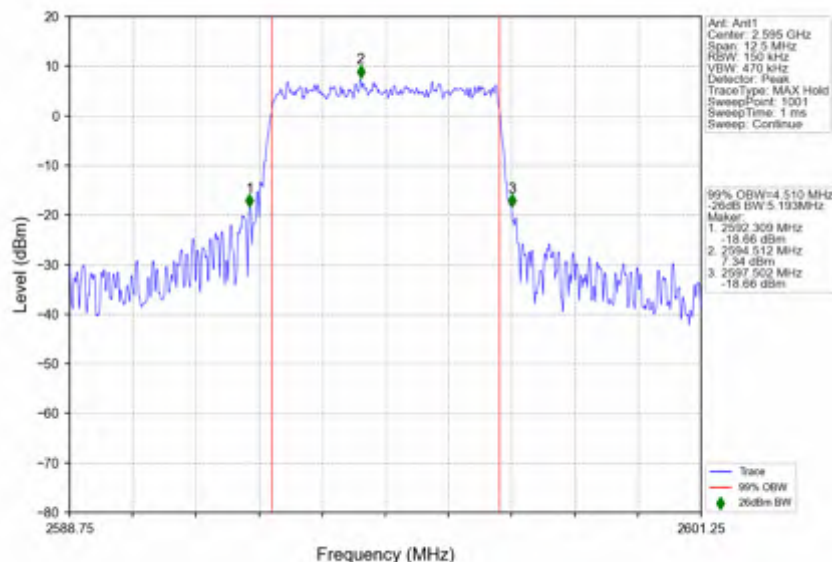
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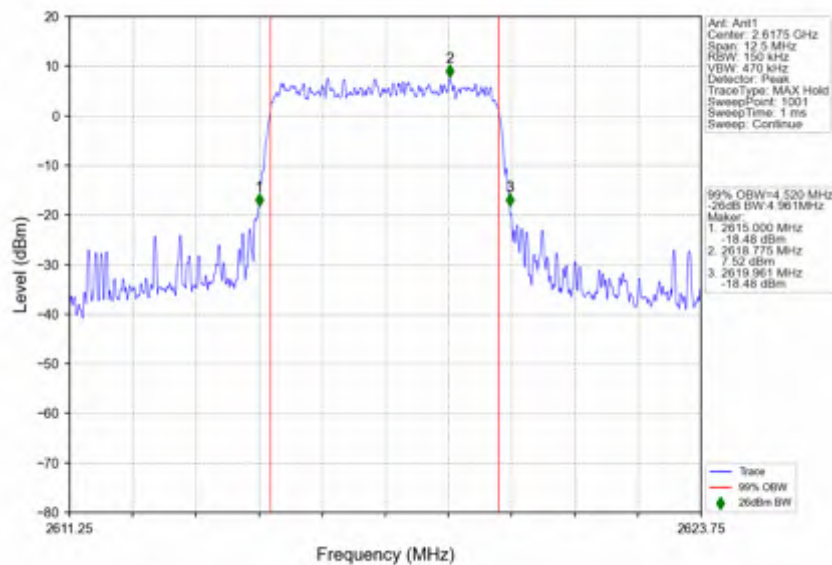
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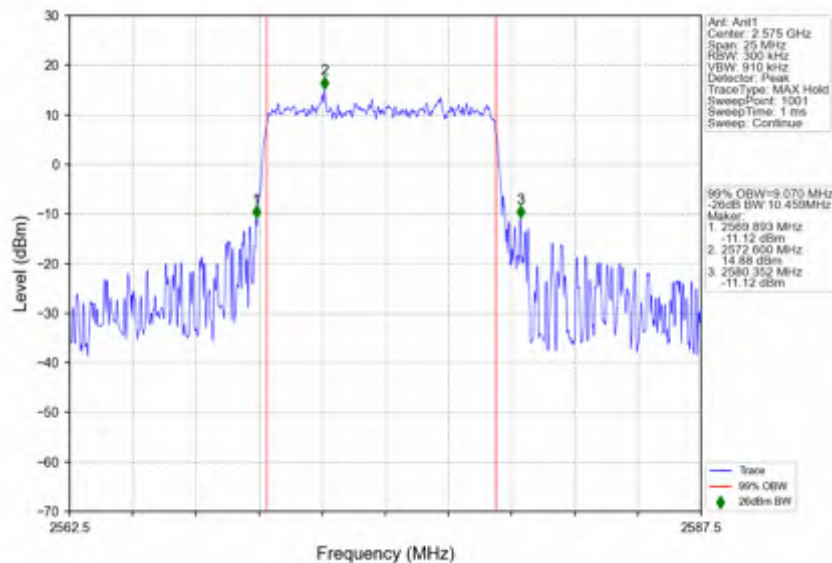
5.2 15k_SISO_10MHz_NTNV

5.2.1 Test Result

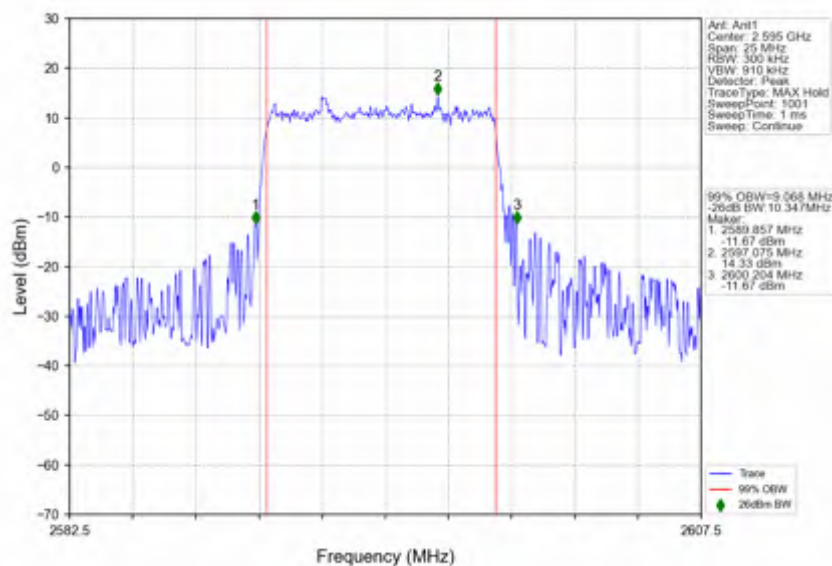
5G NR n38 SCS=15kHz SISO 10MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2575	Outer_Full	9.07	10.46	/	Pass
	2595	Outer_Full	9.07	10.35	/	Pass
	2615	Outer_Full	9.06	10.29	/	Pass
DFT-s-OFDM QPSK	2575	Outer_Full	9.06	9.96	/	Pass
	2595	Outer_Full	9.07	10.22	/	Pass
	2615	Outer_Full	9.05	10.01	/	Pass
DFT-s-OFDM 16 QAM	2575	Outer_Full	9.06	10.49	/	Pass
	2595	Outer_Full	9.06	10.99	/	Pass
	2615	Outer_Full	9.05	10.87	/	Pass
DFT-s-OFDM 64 QAM	2575	Outer_Full	9.03	9.82	/	Pass
	2595	Outer_Full	9.05	10.21	/	Pass
	2615	Outer_Full	9.04	9.88	/	Pass
DFT-s-OFDM 256 QAM	2575	Outer_Full	9.05	9.71	/	Pass
	2595	Outer_Full	9.04	9.96	/	Pass
	2615	Outer_Full	9.04	9.80	/	Pass
CP-OFDM QPSK	2575	Outer_Full	9.37	11.48	/	Pass
	2595	Outer_Full	9.36	11.86	/	Pass
	2615	Outer_Full	9.35	10.80	/	Pass
CP-OFDM 16 QAM	2575	Outer_Full	9.36	10.58	/	Pass
	2595	Outer_Full	9.38	10.85	/	Pass
	2615	Outer_Full	9.38	11.29	/	Pass
CP-OFDM 64 QAM	2575	Outer_Full	9.37	11.37	/	Pass
	2595	Outer_Full	9.37	10.90	/	Pass
	2615	Outer_Full	9.38	11.16	/	Pass
CP-OFDM 256 QAM	2575	Outer_Full	9.33	10.28	/	Pass
	2595	Outer_Full	9.35	10.28	/	Pass
	2615	Outer_Full	9.36	10.22	/	Pass

5.2.2 Test Graph

n38_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_2575MHz_Outer_Full



n38_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_2595MHz_Outer_Full



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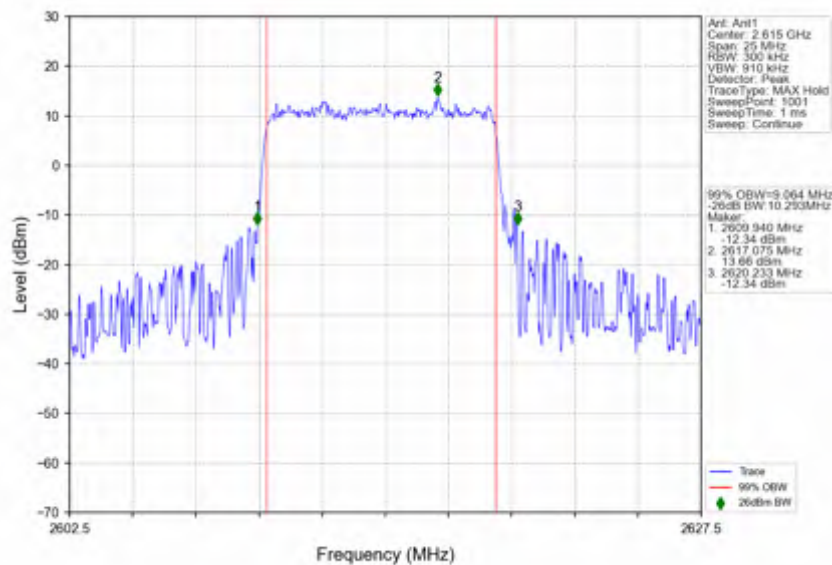
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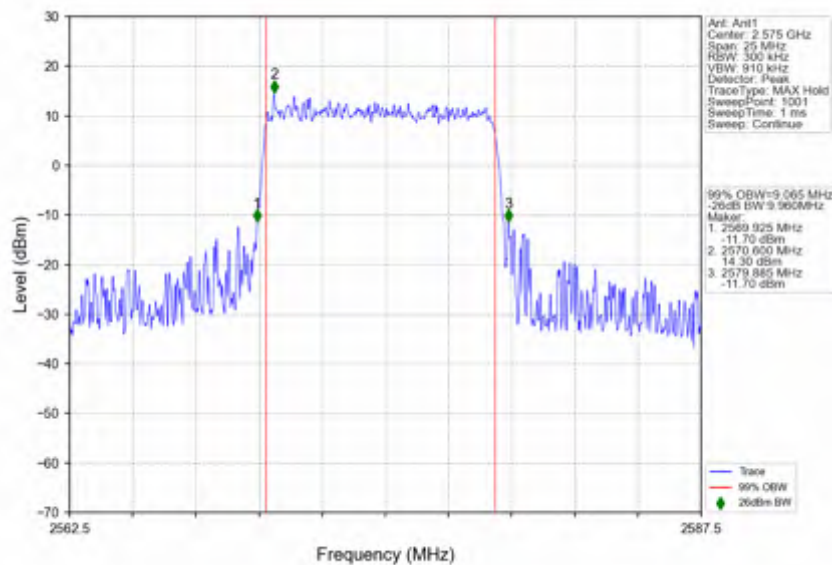
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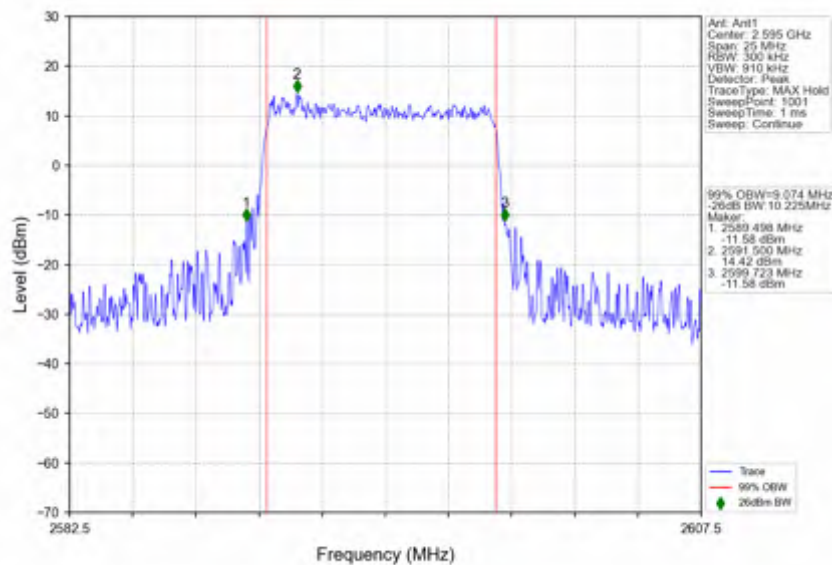
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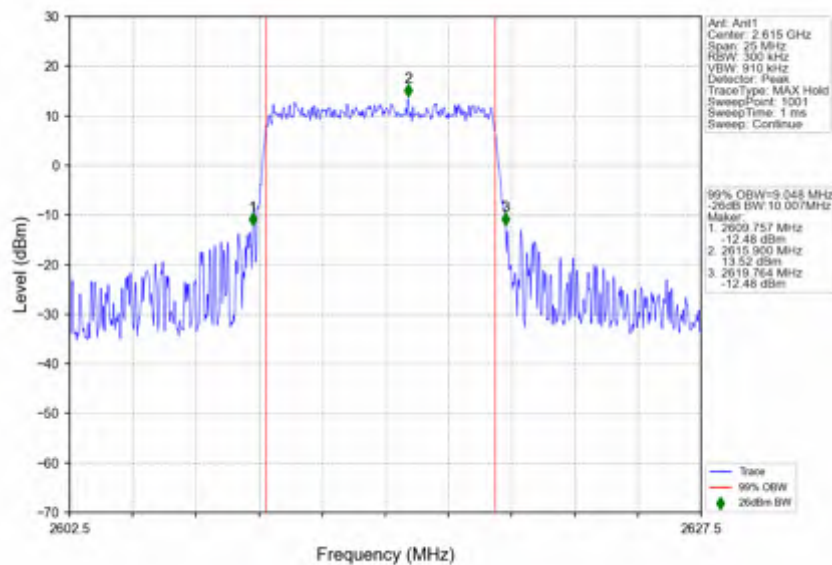
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n38 15kHz SISO NTV 10MHz DFT-s-OFDM QPSK 2615MHz Outer Full

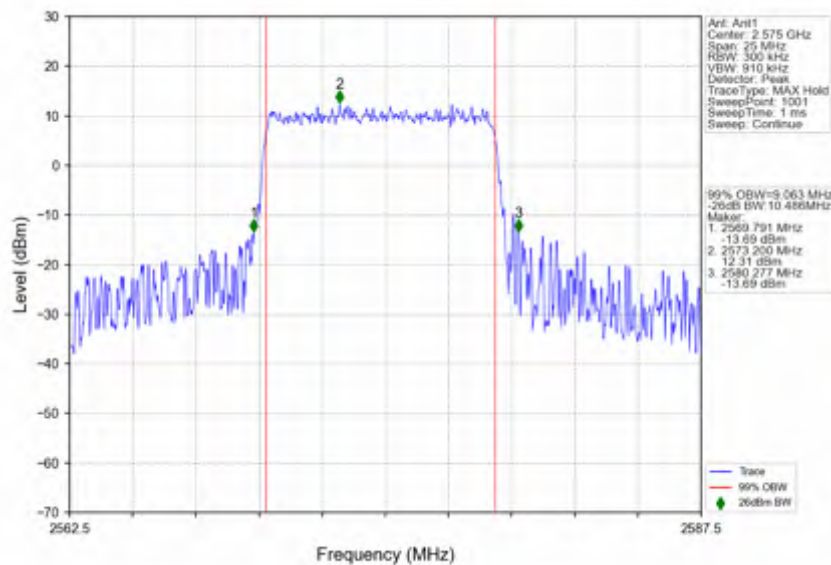


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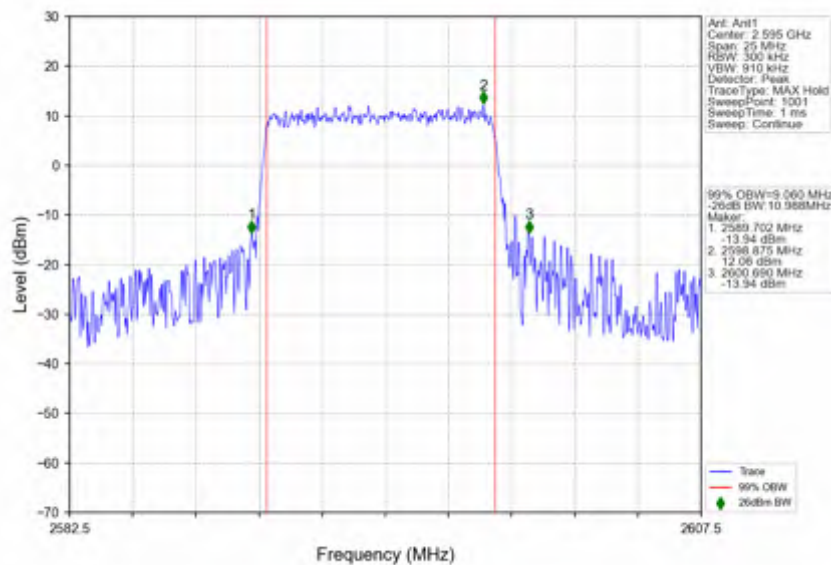
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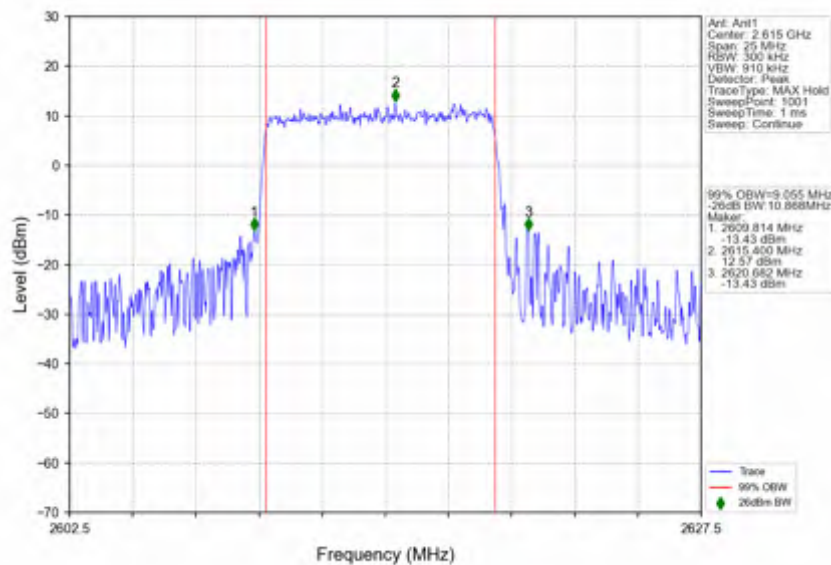
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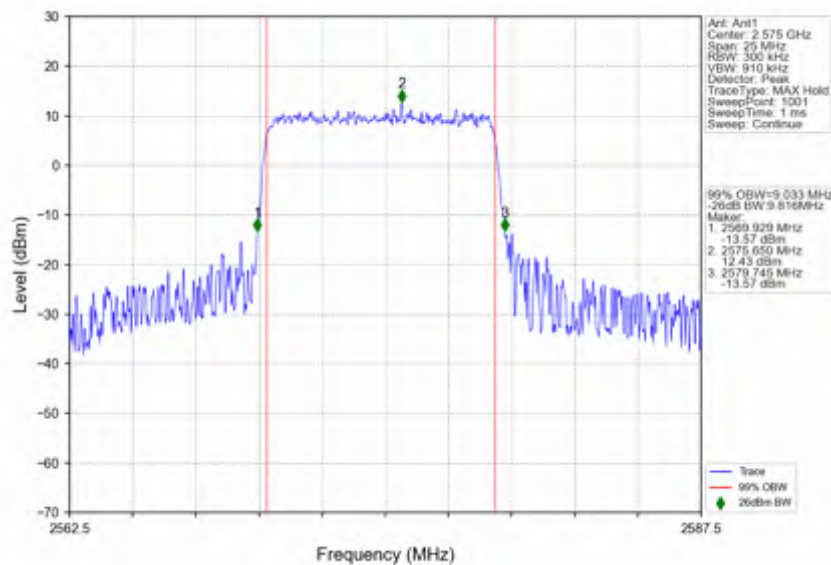
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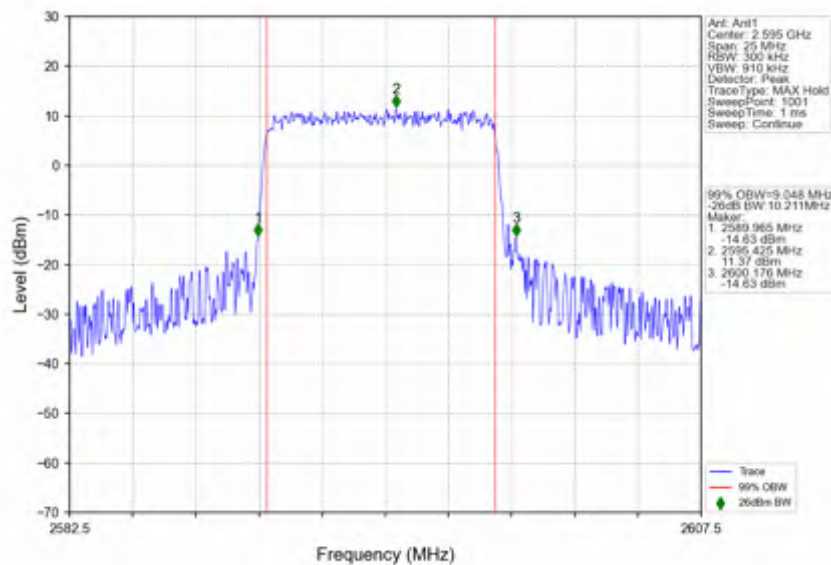
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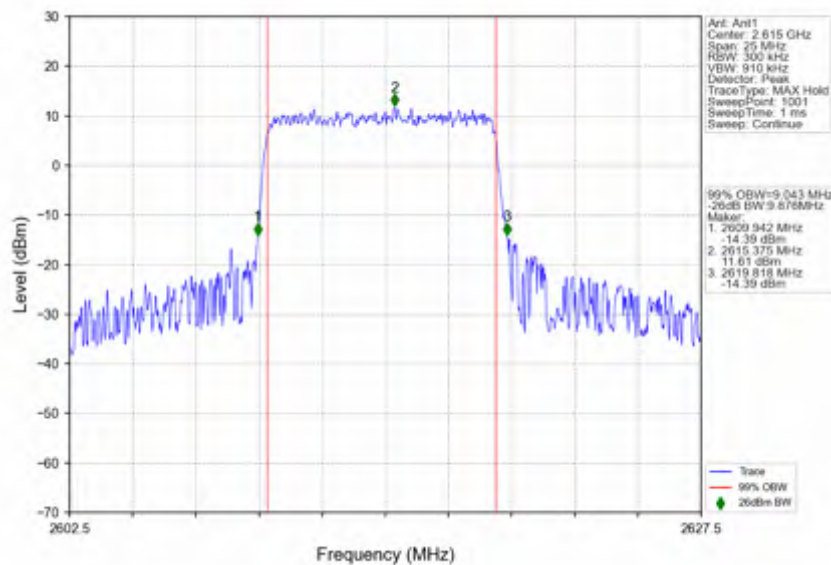
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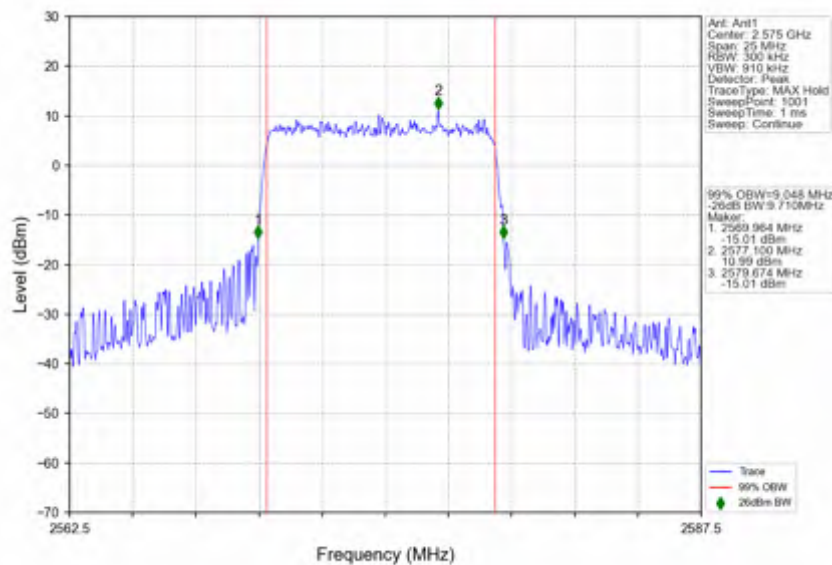
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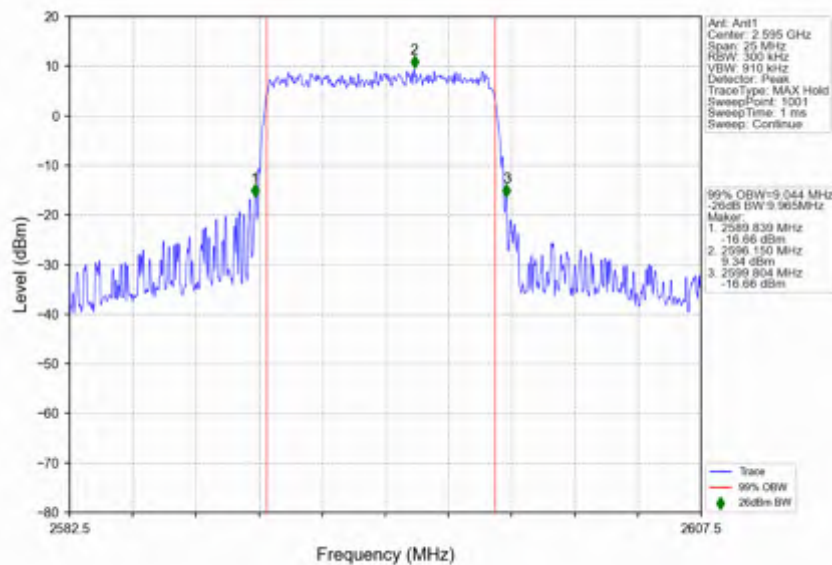
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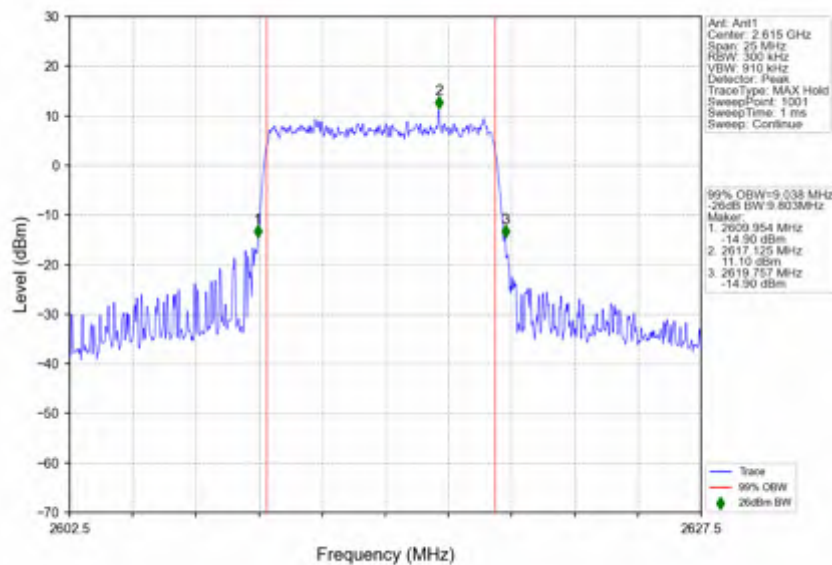
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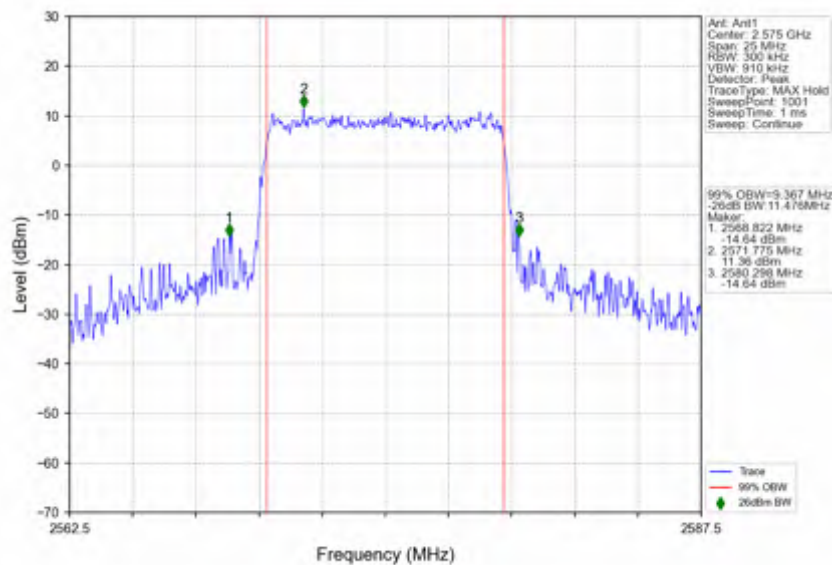
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n38_15kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_2615MHz_Outer_Full



n38_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2575MHz_Outer_Full



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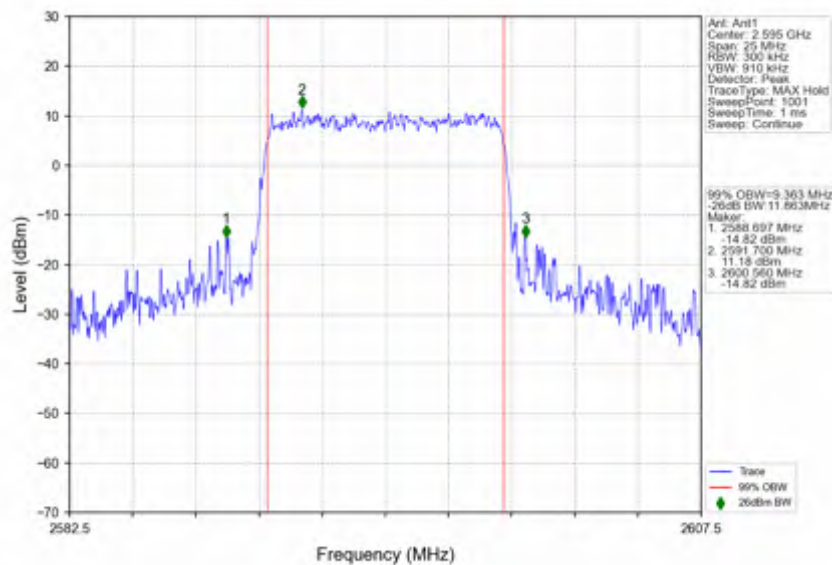
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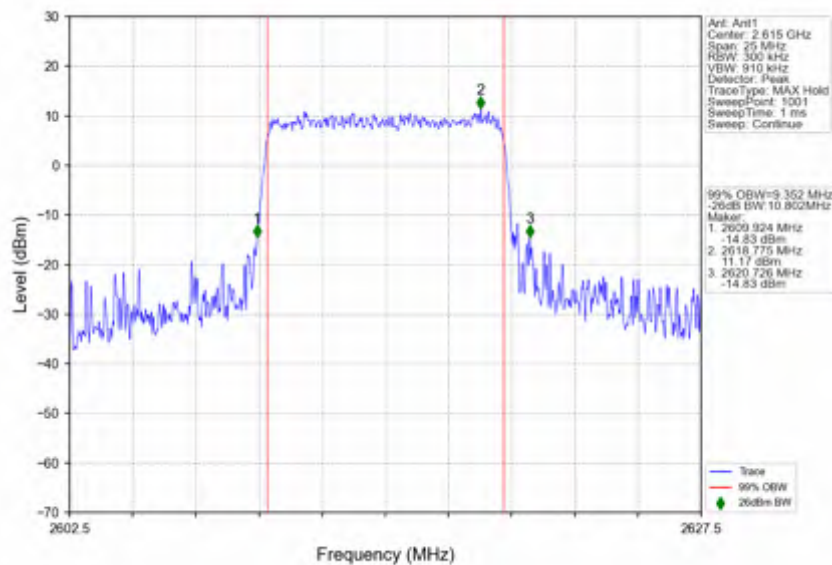
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n38_15kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2595MHz_Outer_Full



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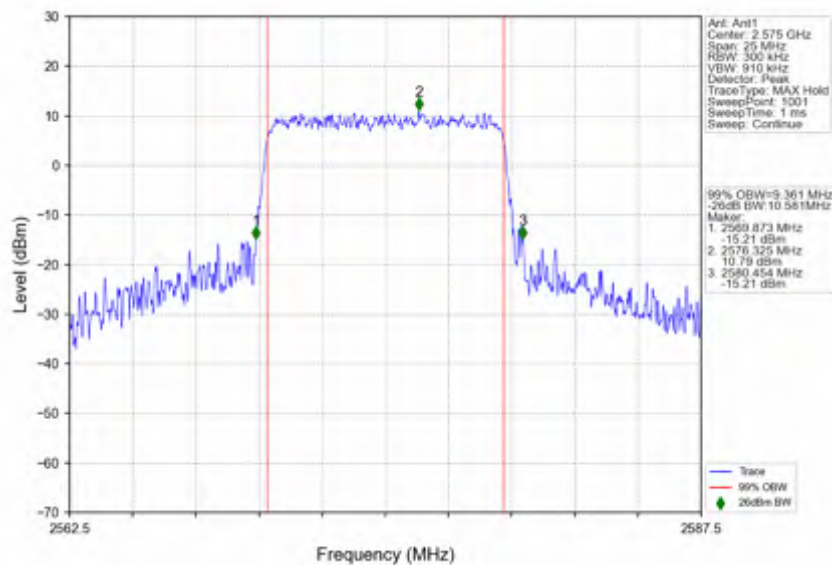
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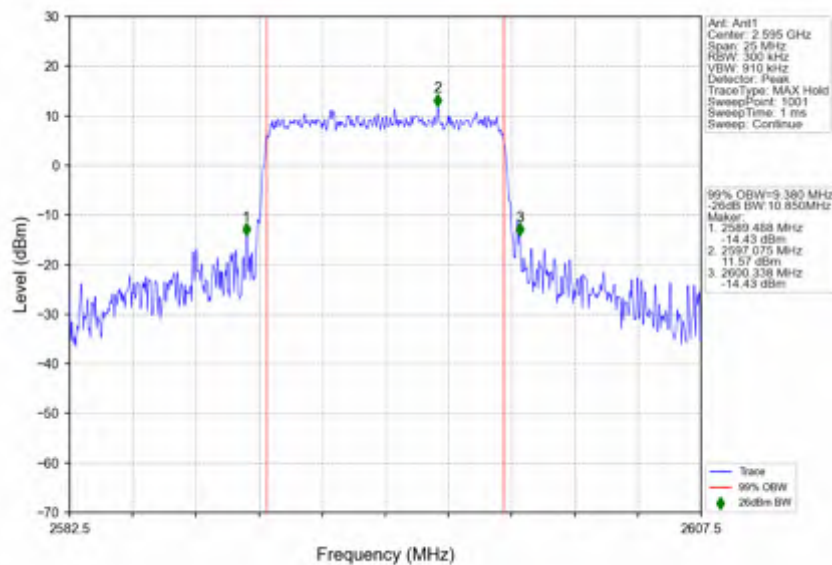
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n38_15kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_2595MHz_Outer_Full



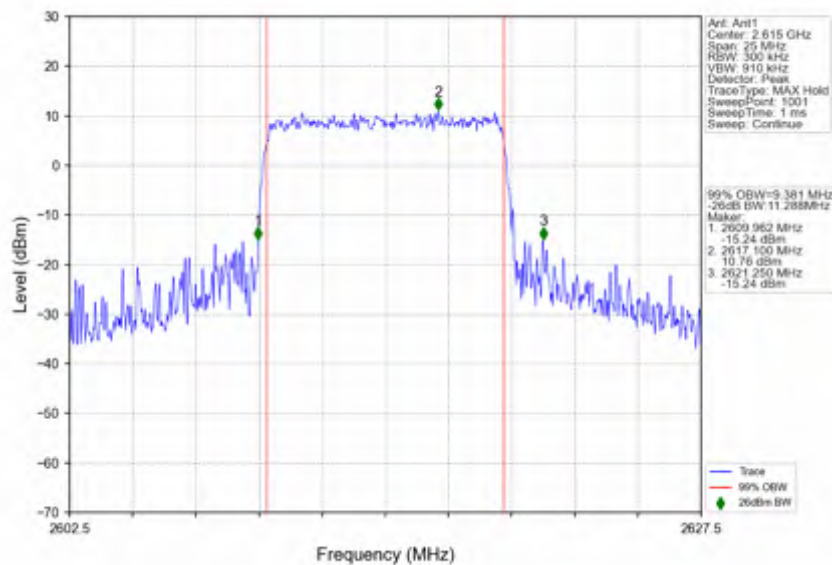
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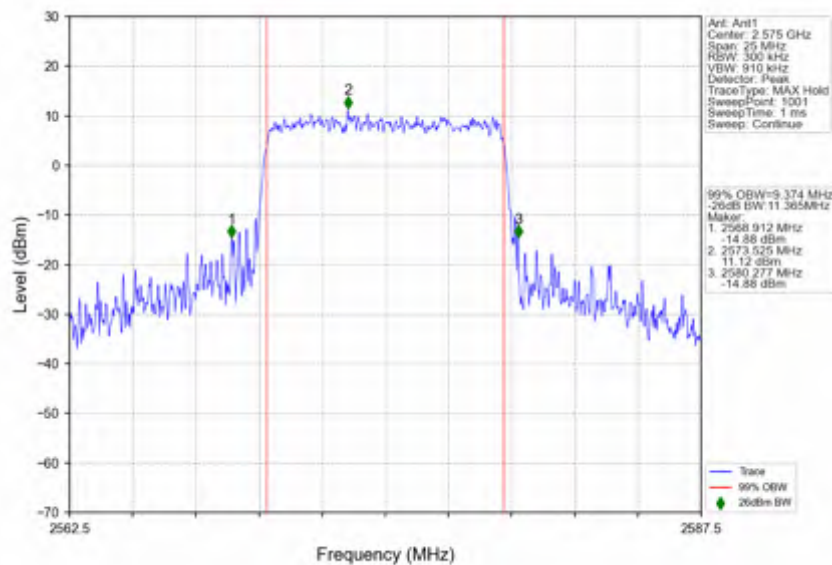
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n38_15kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_2615MHz_Outer_Full



n38_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_2575MHz_Outer_Full



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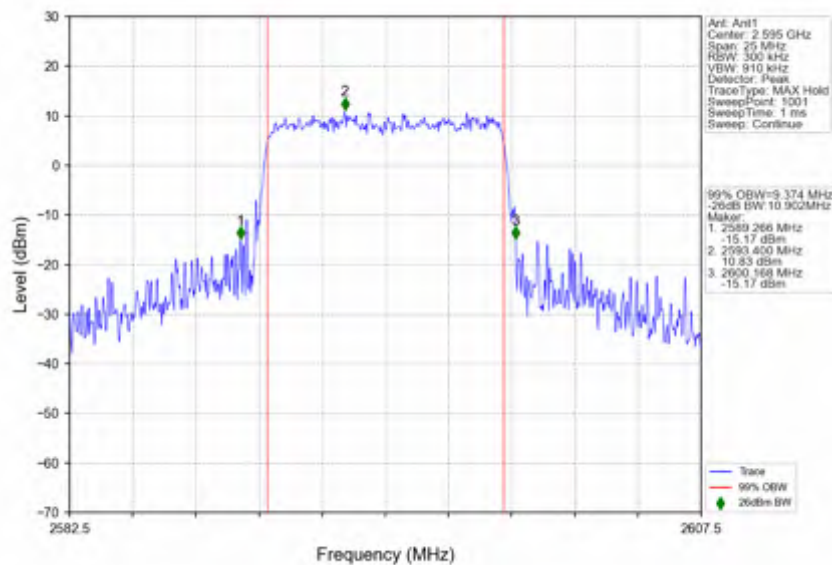
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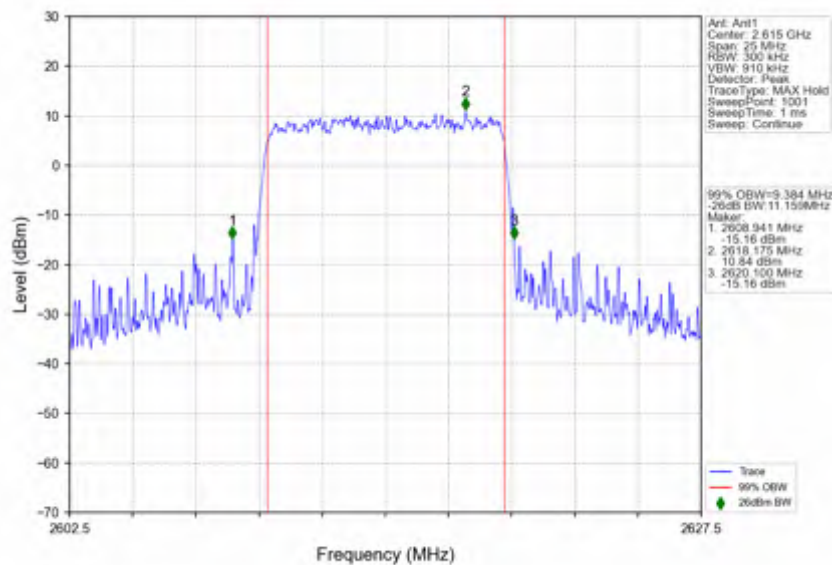
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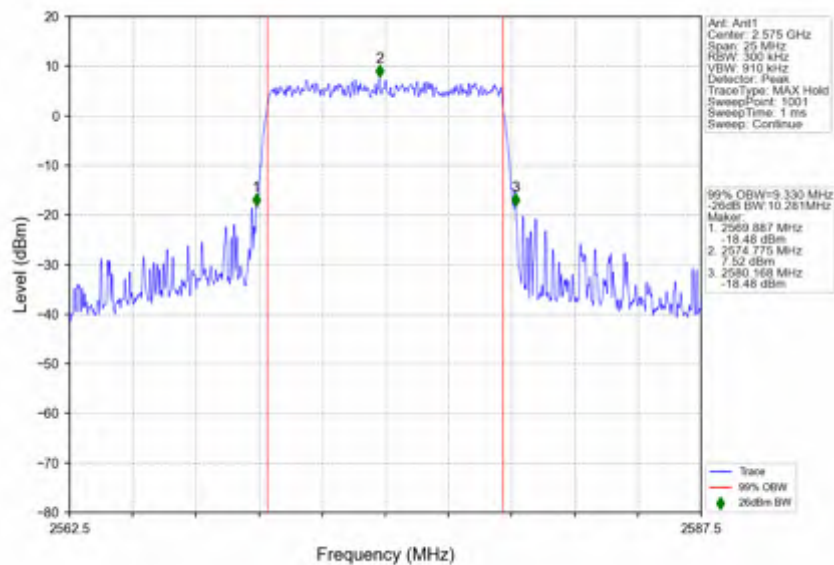
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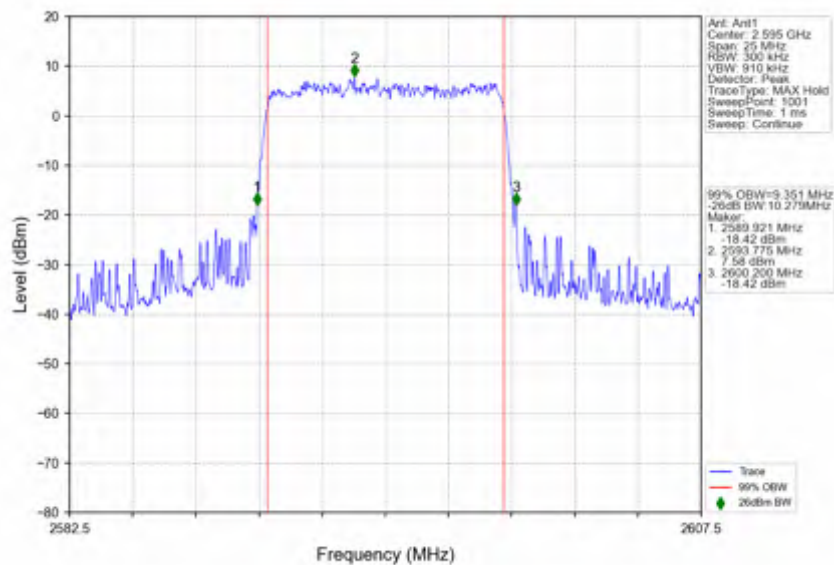
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n38_15kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_2575MHz_Outer_Full



n38	15kHz	SISO	NTNV	10MHz	CP-OFDM	256 QAM	2595MHz	Outer	Full
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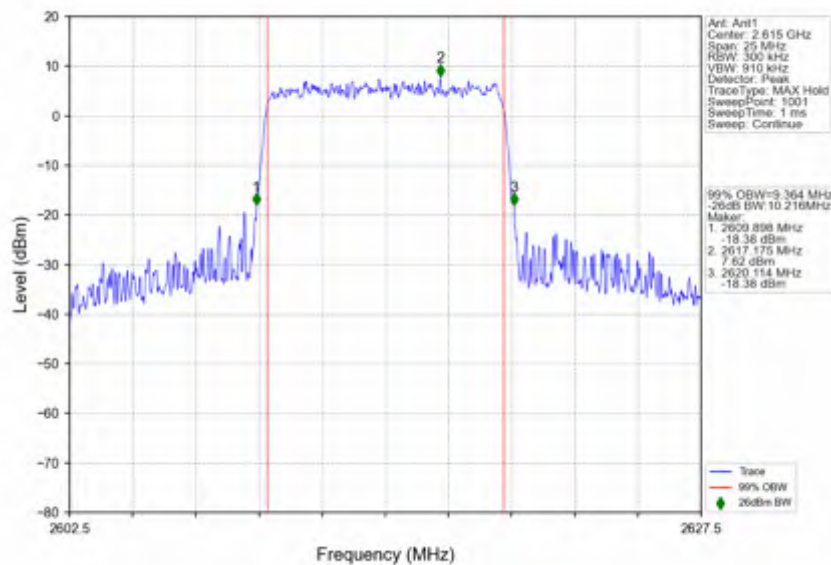


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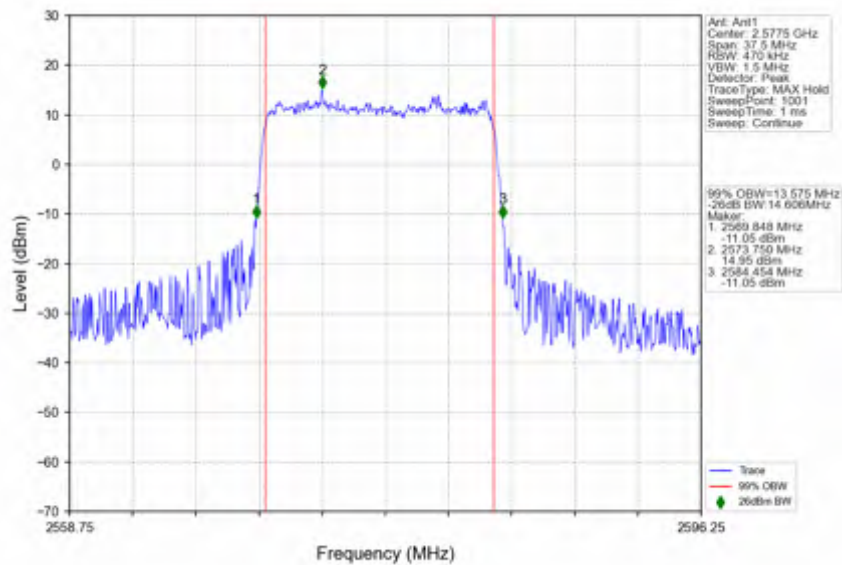
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**5.3 15k_SISO_15MHz_NTNV****5.3.1 Test Result**

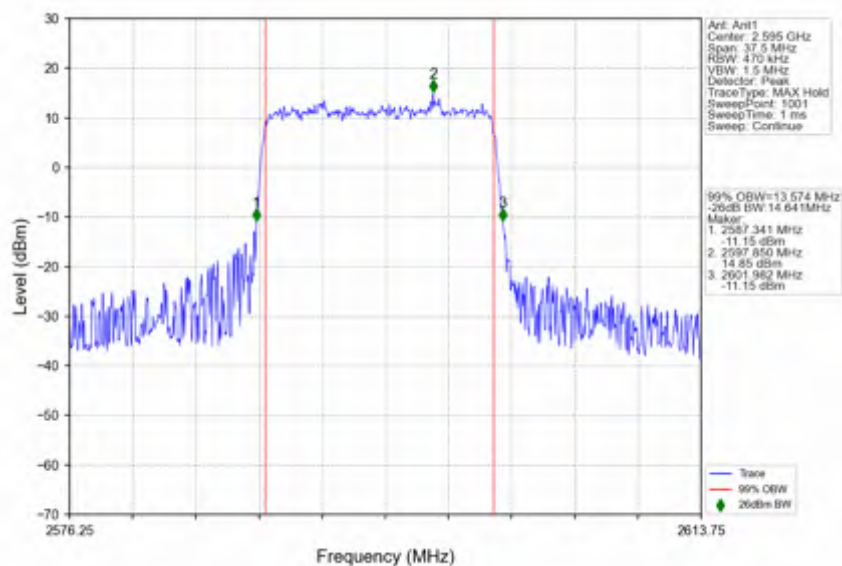
5G NR n38 SCS=15kHz SISO 15MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2577.5	Outer_Full	13.57	14.61	/	Pass
	2595	Outer_Full	13.57	14.64	/	Pass
	2612.5	Outer_Full	13.58	14.71	/	Pass
DFT-s-OFDM QPSK	2577.5	Outer_Full	13.57	14.65	/	Pass
	2595	Outer_Full	13.57	14.68	/	Pass
	2612.5	Outer_Full	13.55	14.67	/	Pass
DFT-s-OFDM 16 QAM	2577.5	Outer_Full	13.58	14.69	/	Pass
	2595	Outer_Full	13.57	14.84	/	Pass
	2612.5	Outer_Full	13.52	14.66	/	Pass
DFT-s-OFDM 64 QAM	2577.5	Outer_Full	13.57	15.79	/	Pass
	2595	Outer_Full	13.57	16.00	/	Pass
	2612.5	Outer_Full	13.61	14.71	/	Pass
DFT-s-OFDM 256 QAM	2577.5	Outer_Full	13.60	15.58	/	Pass
	2595	Outer_Full	13.57	15.81	/	Pass
	2612.5	Outer_Full	13.56	15.16	/	Pass
CP-OFDM QPSK	2577.5	Outer_Full	14.21	15.27	/	Pass
	2595	Outer_Full	14.24	15.23	/	Pass
	2612.5	Outer_Full	14.19	15.65	/	Pass
CP-OFDM 16 QAM	2577.5	Outer_Full	14.26	15.75	/	Pass
	2595	Outer_Full	14.23	15.27	/	Pass
	2612.5	Outer_Full	14.23	15.66	/	Pass
CP-OFDM 64 QAM	2577.5	Outer_Full	14.28	16.41	/	Pass
	2595	Outer_Full	14.27	16.49	/	Pass
	2612.5	Outer_Full	14.22	15.88	/	Pass
CP-OFDM 256 QAM	2577.5	Outer_Full	14.26	15.44	/	Pass
	2595	Outer_Full	14.24	15.35	/	Pass
	2612.5	Outer_Full	14.23	15.25	/	Pass

5.3.2 Test Graph

n38_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_2577.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_2595MHz_Outer_Full



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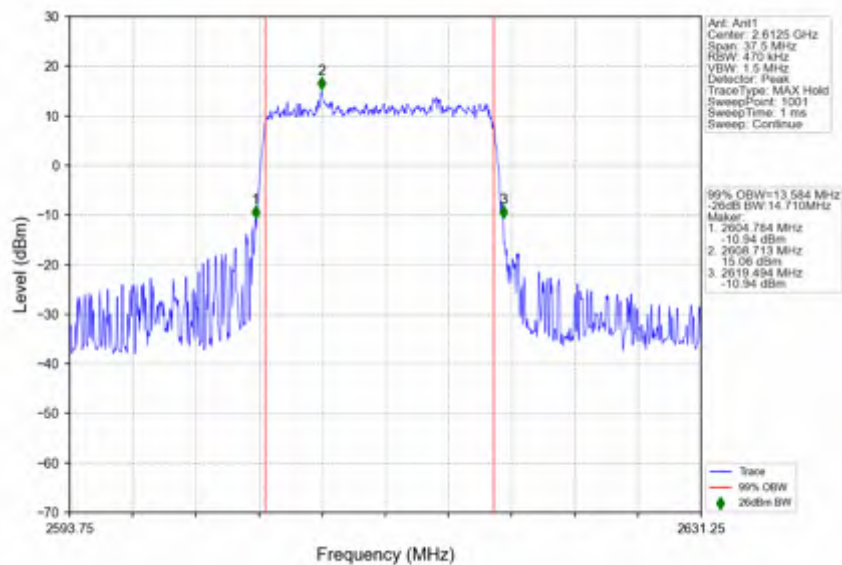
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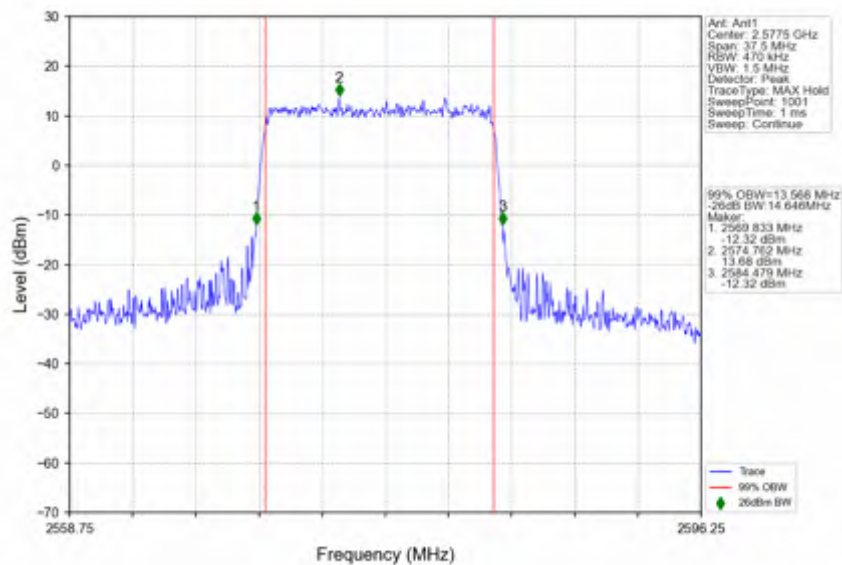
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n38_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_2577.5MHz_Outer_Full



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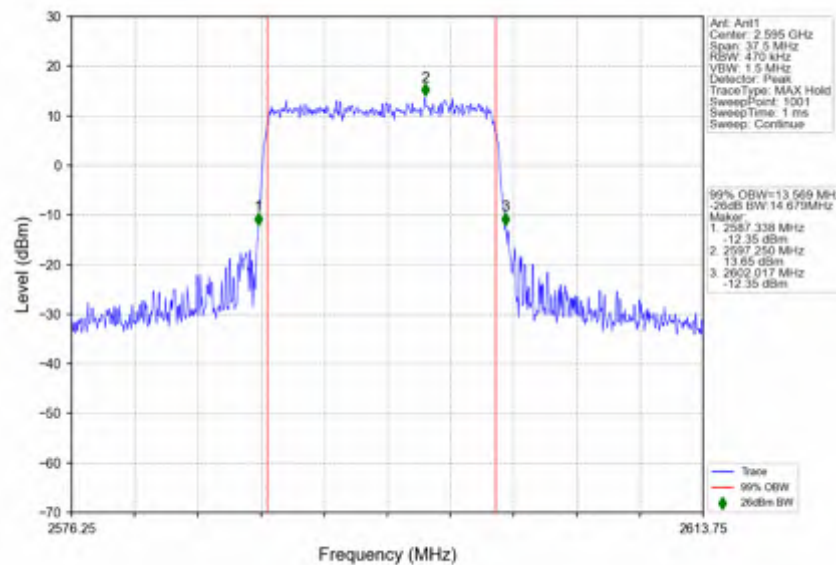
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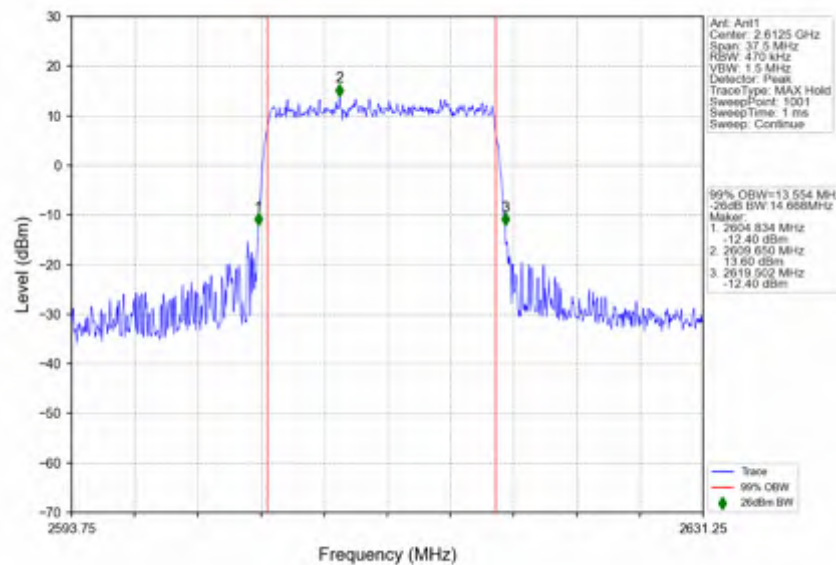
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n38_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_2612.5MHz_Outer_Full



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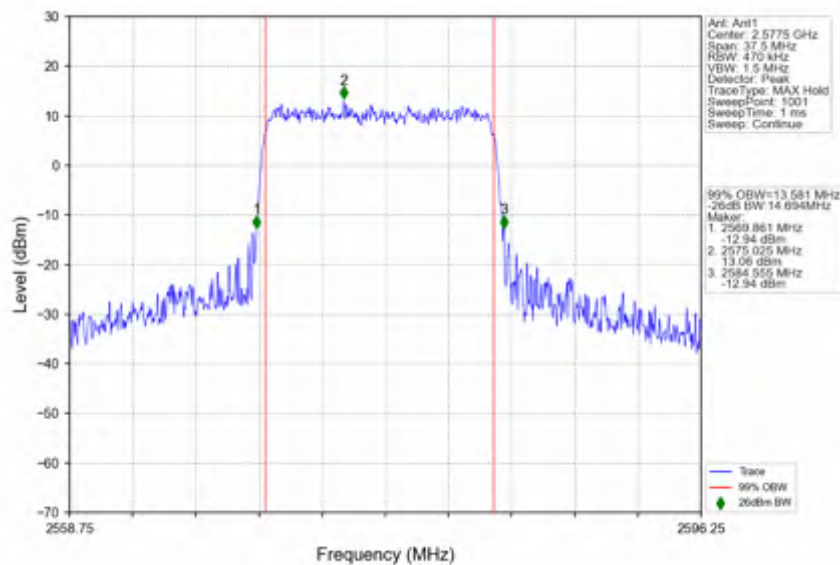
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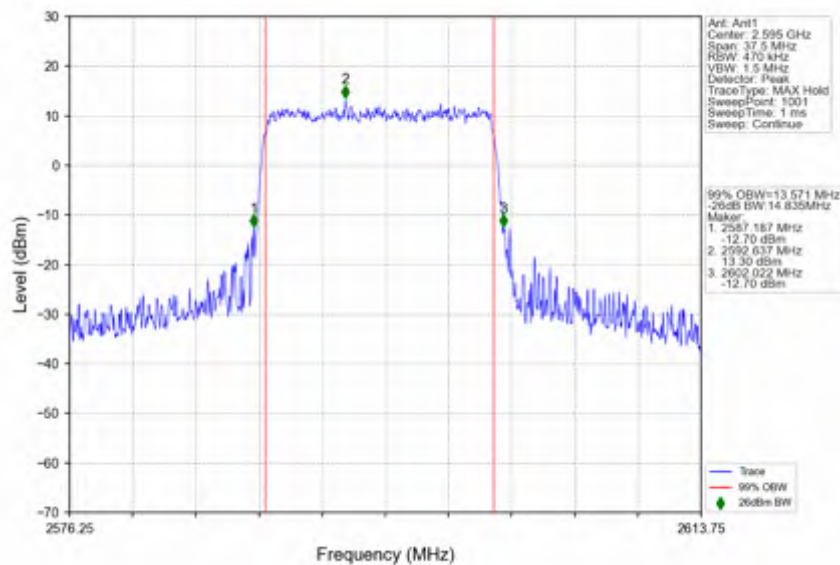
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n38 15kHz SISO NTNv 15MHz DFT-s-OFDM 16 QAM 2595MHz Outer Full



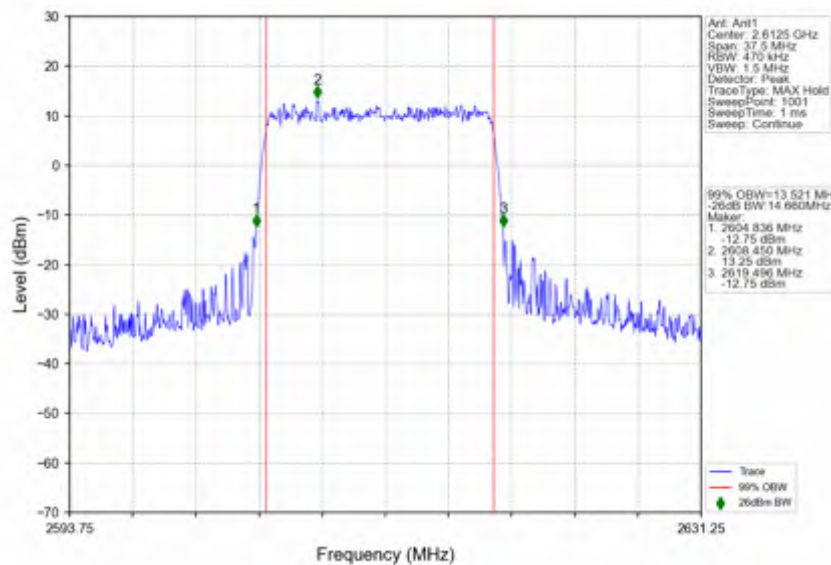
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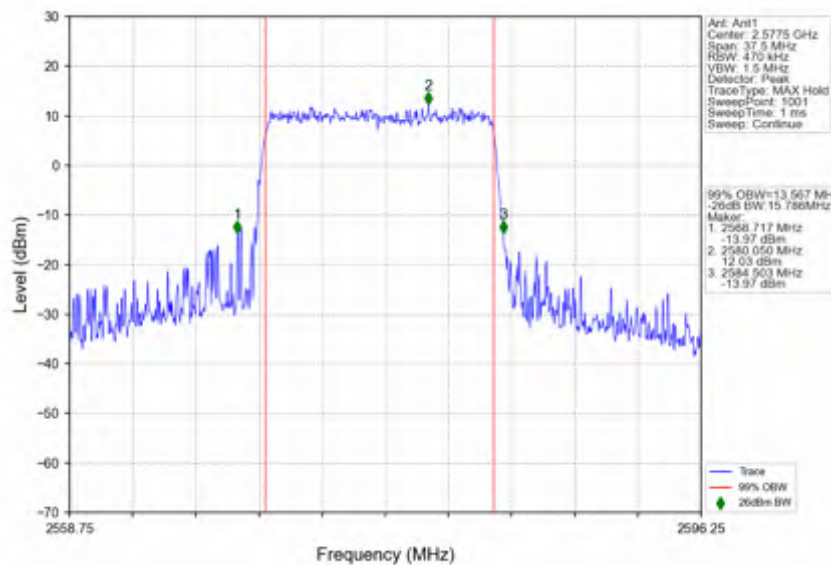
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n38_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16_QAM_2612.5MHz_Outer_Full
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n38_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_64_QAM_2577.5MHz_Outer_Full

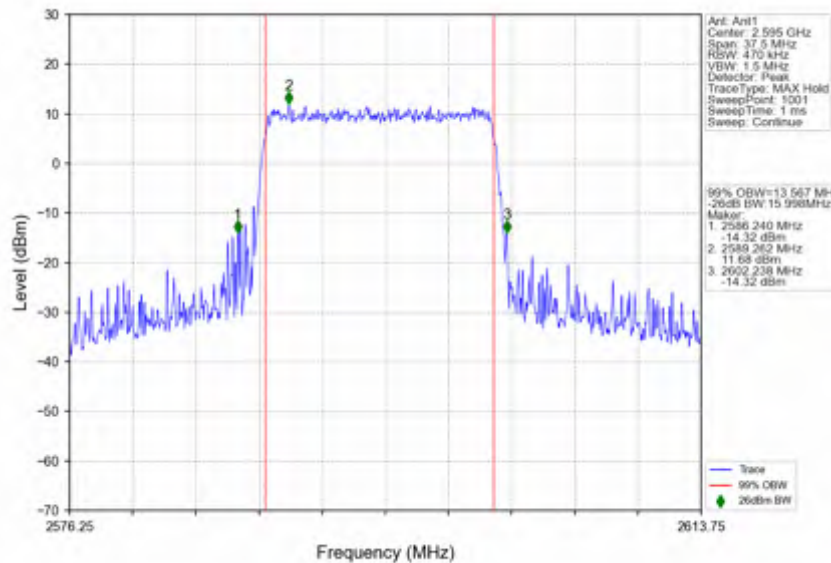


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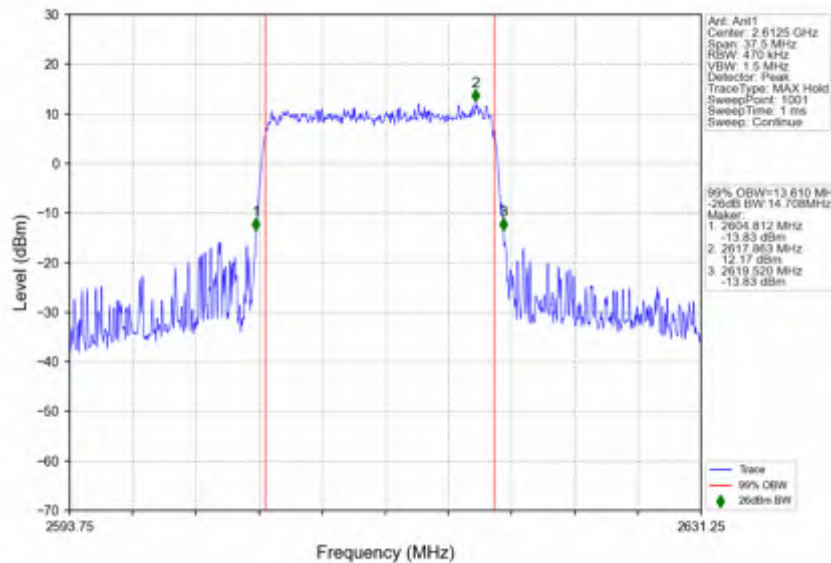
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n38_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_64_QAM_2595MHz_Outer_Full



n38_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_64_QAM_2612.5MHz_Outer_Full



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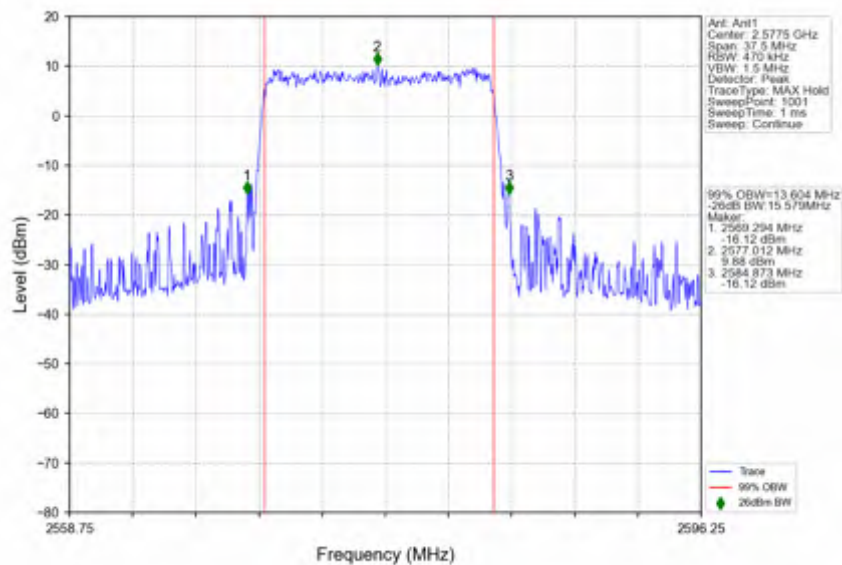
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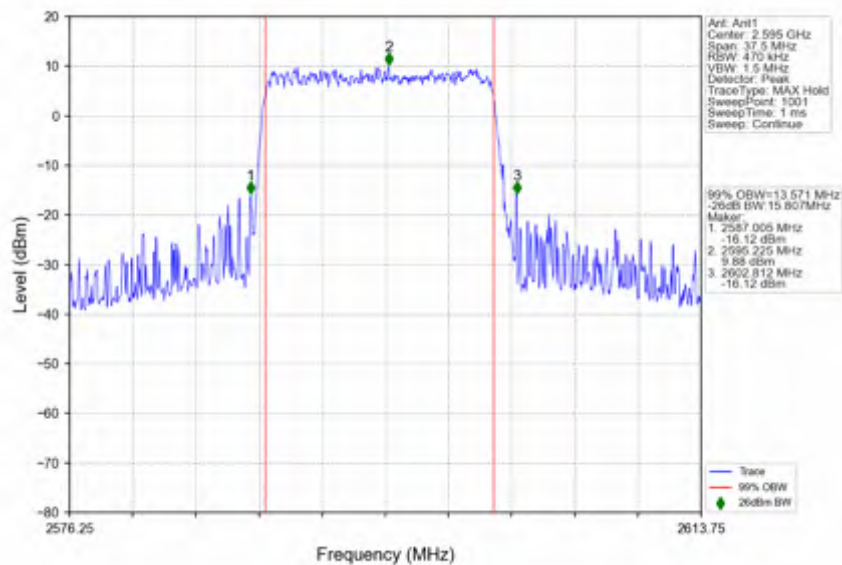
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n38_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_2577.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_2595MHz_Outer_Full



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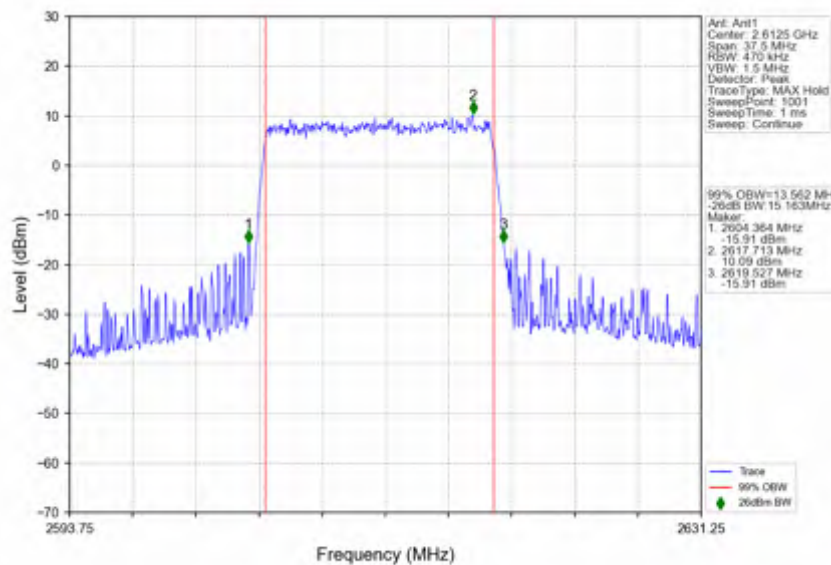
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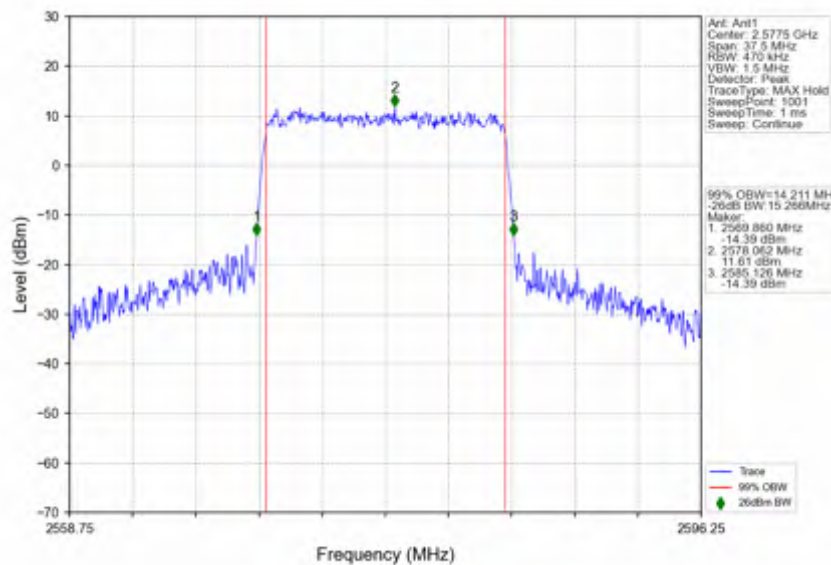
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n38_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_2612.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_15MHz_CP-OFDM_QPSK_2577.5MHz_Outer_Full

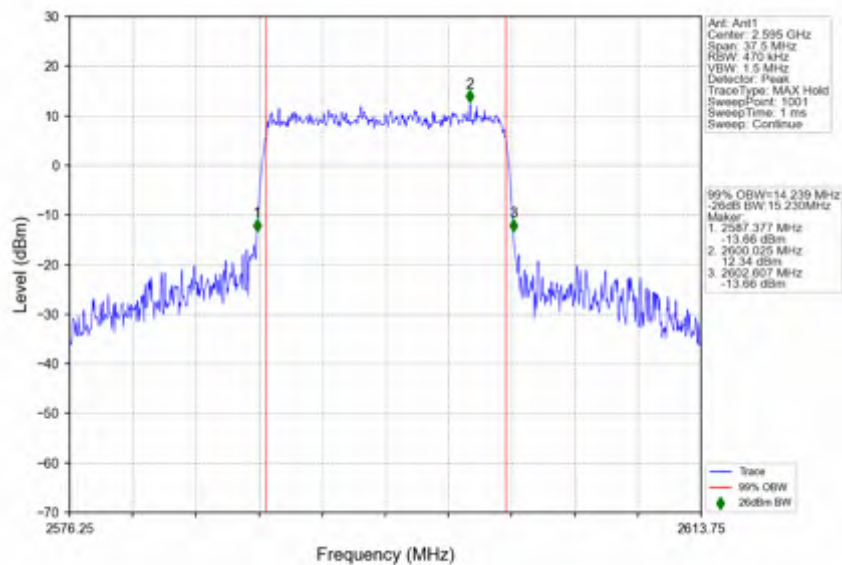


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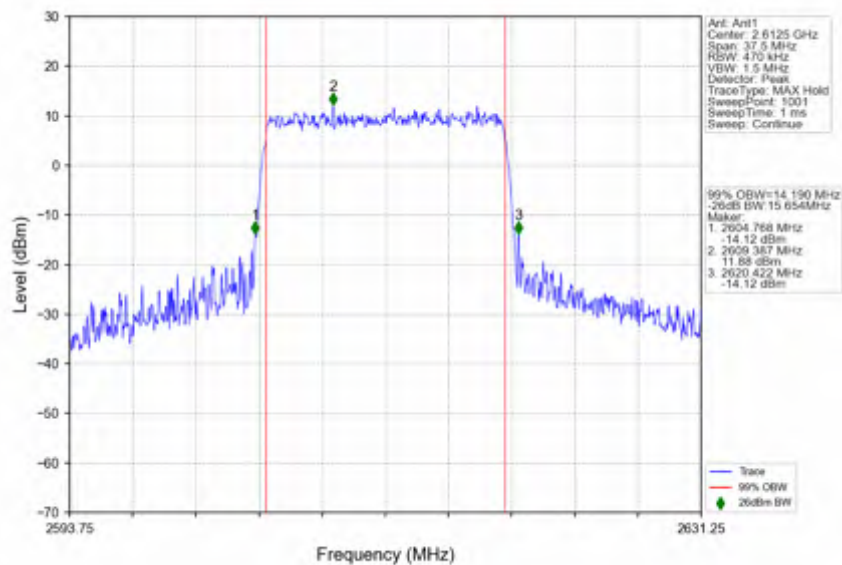
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n38_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_2595MHz_Outer_Full



n38_15kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_2612.5MHz_Outer_Full



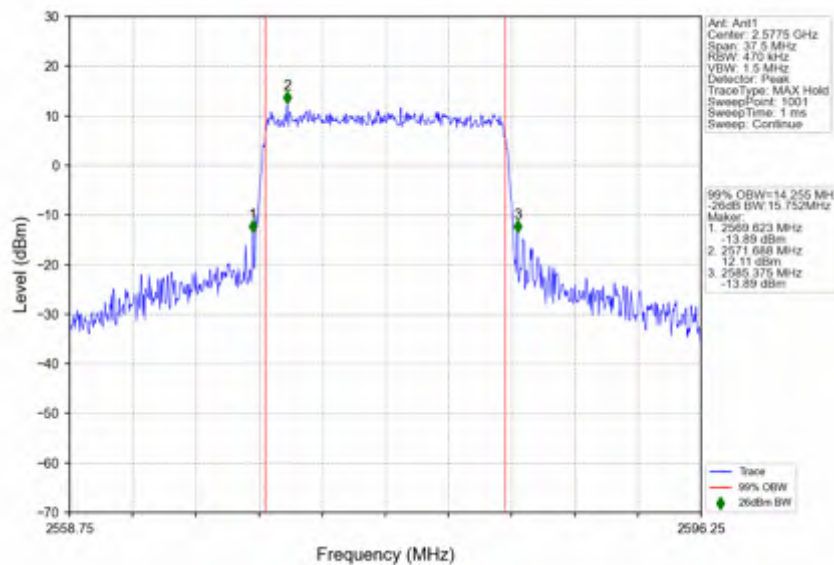
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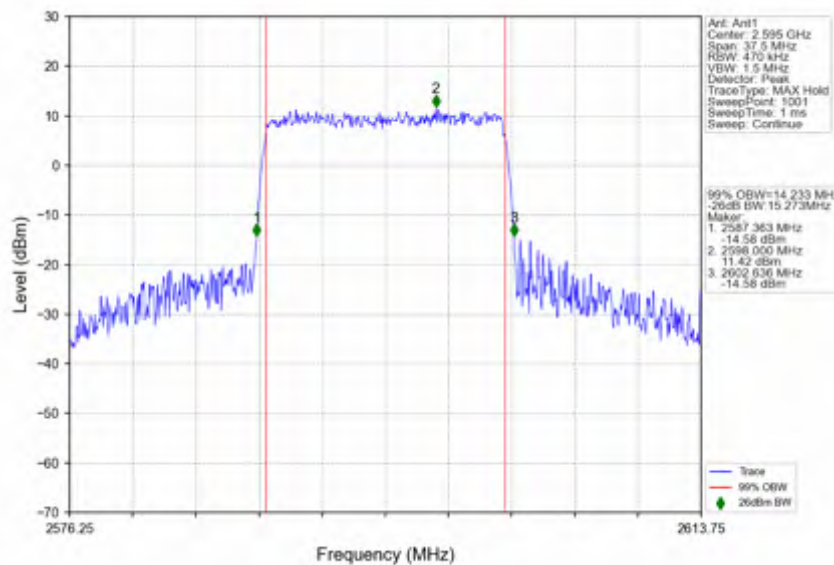
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n38_15kHz_SISO_NTNV_15MHz_CP-OFDM_16 QAM_2577.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_15MHz_CP-OFDM_16 QAM_2595MHz_Outer_Full



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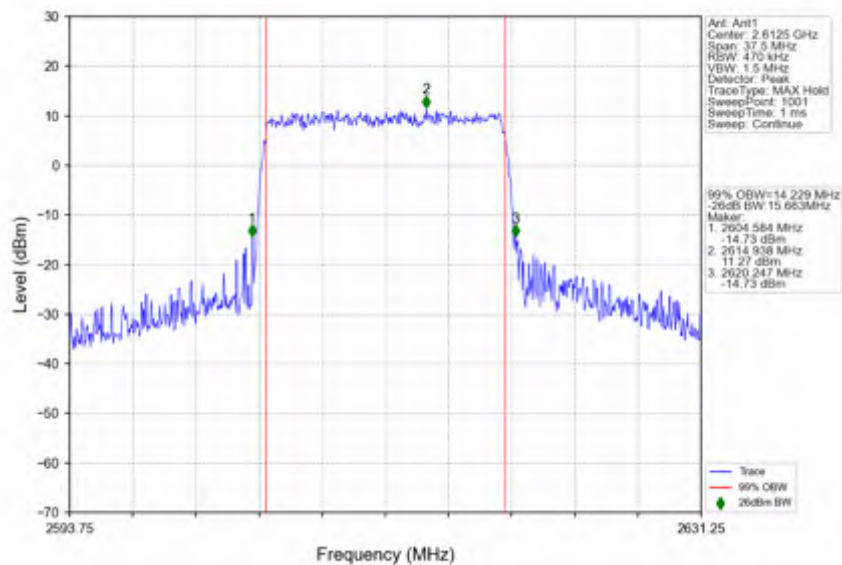
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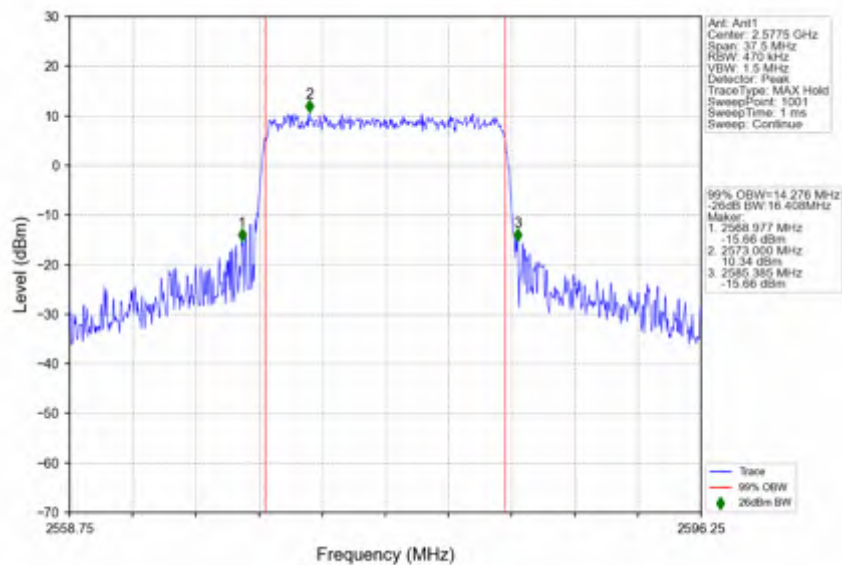
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n38 15kHz SISO NTN 15MHz CP-OFDM 16 QAM 2612.5MHz Outer Full



n38	15kHz	SISO	NTNV	15MHz	CP-OFDM	64 QAM	2577.5MHz	Outer	Full
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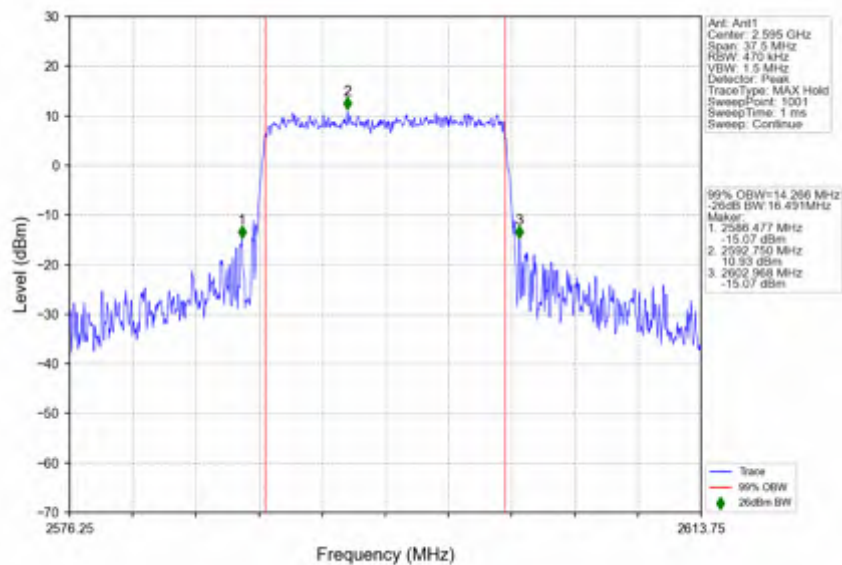


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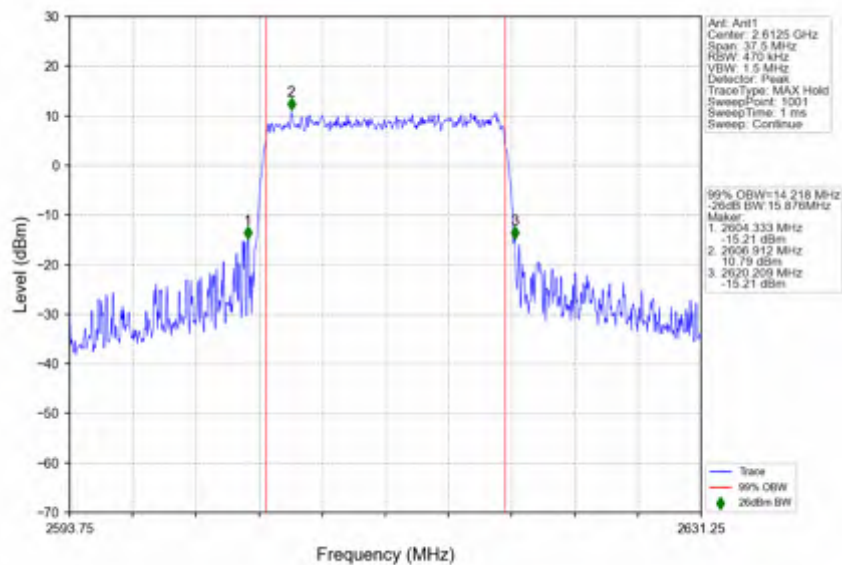
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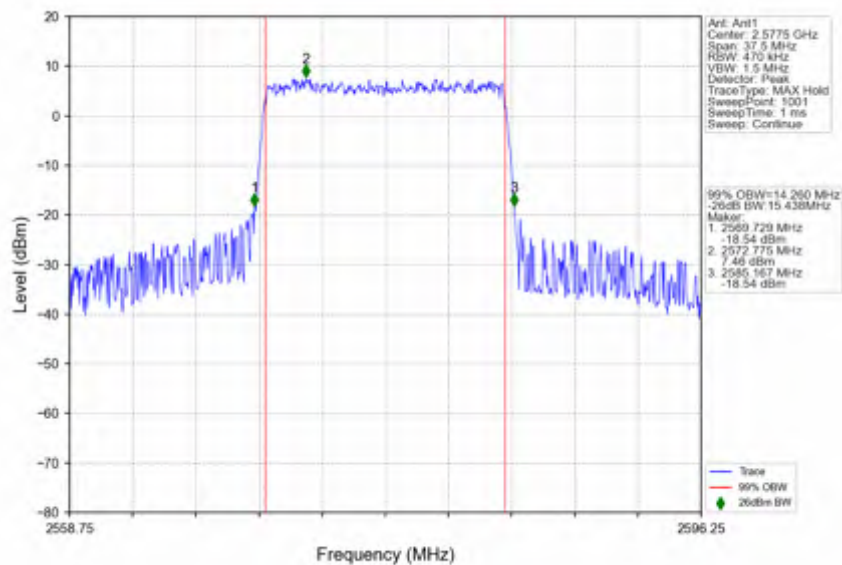
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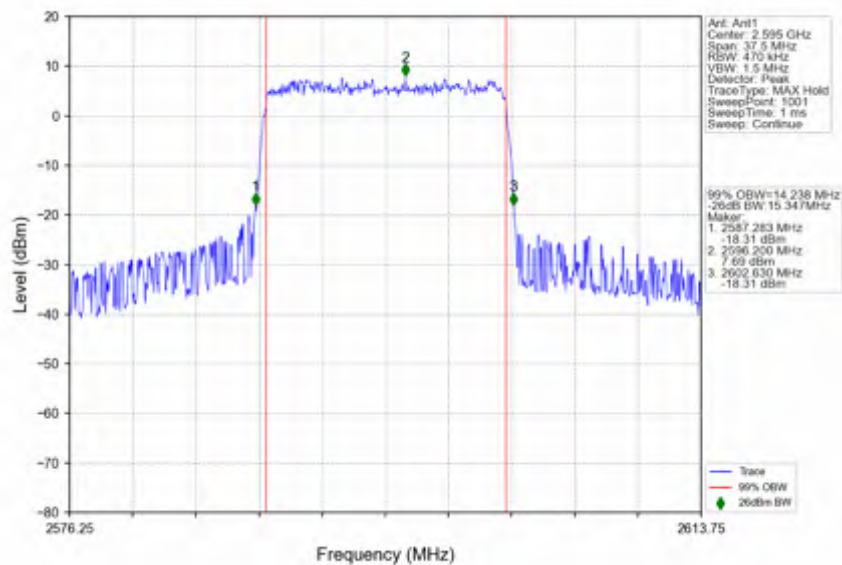
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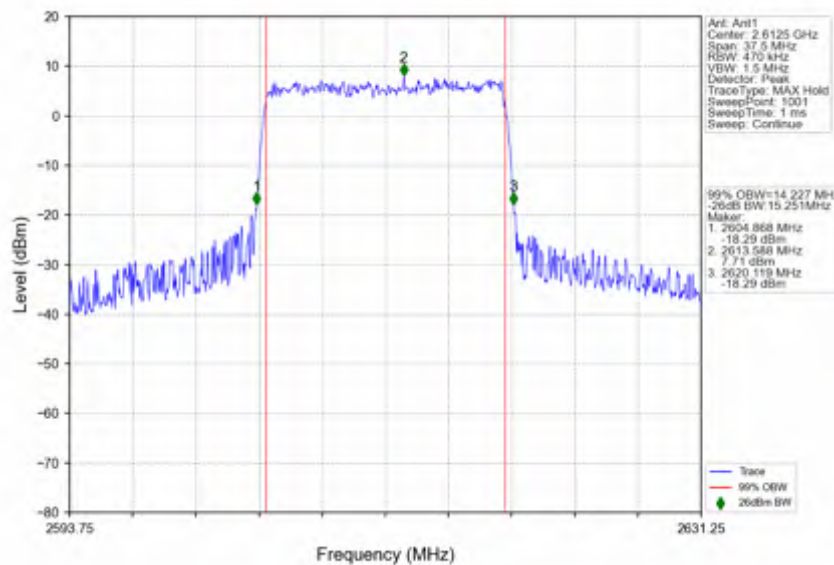
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n38_15kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_2612.5MHz_Outer_Full



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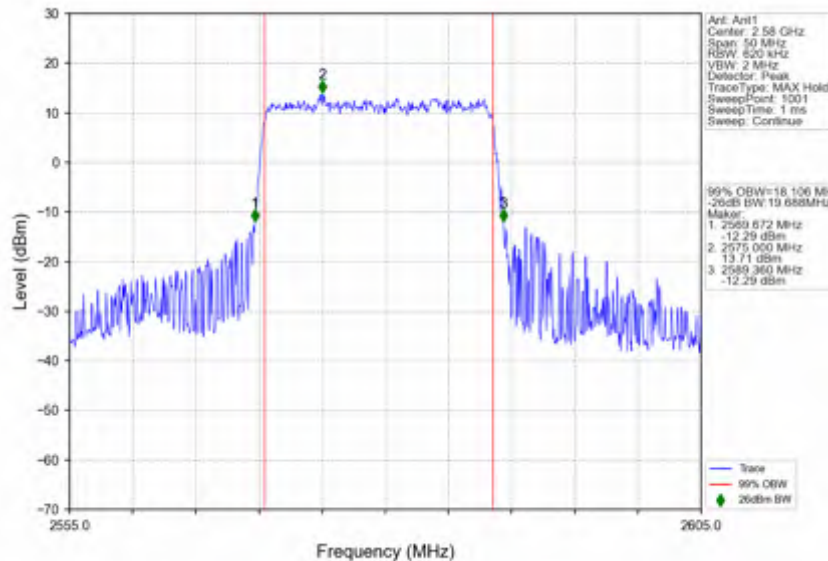
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**5.4 15k_SISO_20MHz_NTNV****5.4.1 Test Result**

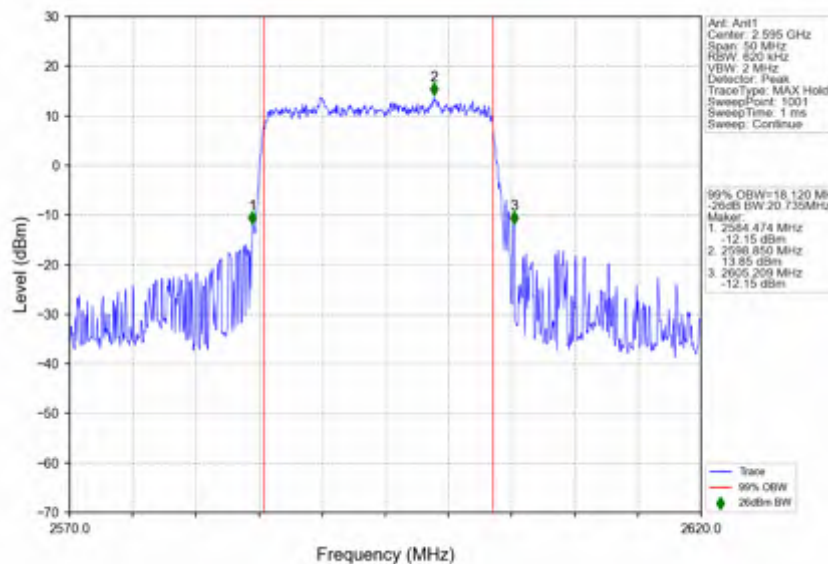
5G NR n38 SCS=15kHz SISO 20MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2580	Outer_Full	18.11	19.69	/	Pass
	2595	Outer_Full	18.12	20.73	/	Pass
	2610	Outer_Full	18.07	20.46	/	Pass
DFT-s-OFDM QPSK	2580	Outer_Full	18.07	19.74	/	Pass
	2595	Outer_Full	18.09	20.01	/	Pass
	2610	Outer_Full	18.08	19.92	/	Pass
DFT-s-OFDM 16 QAM	2580	Outer_Full	18.09	20.30	/	Pass
	2595	Outer_Full	18.07	20.73	/	Pass
	2610	Outer_Full	18.09	19.75	/	Pass
DFT-s-OFDM 64 QAM	2580	Outer_Full	18.10	19.61	/	Pass
	2595	Outer_Full	18.03	19.86	/	Pass
	2610	Outer_Full	18.06	19.63	/	Pass
DFT-s-OFDM 256 QAM	2580	Outer_Full	18.12	20.53	/	Pass
	2595	Outer_Full	18.13	20.00	/	Pass
	2610	Outer_Full	18.11	20.22	/	Pass
CP-OFDM QPSK	2580	Outer_Full	19.06	20.72	/	Pass
	2595	Outer_Full	19.09	21.09	/	Pass
	2610	Outer_Full	19.07	22.14	/	Pass
CP-OFDM 16 QAM	2580	Outer_Full	19.13	20.78	/	Pass
	2595	Outer_Full	19.10	20.52	/	Pass
	2610	Outer_Full	19.11	21.02	/	Pass
CP-OFDM 64 QAM	2580	Outer_Full	19.10	22.14	/	Pass
	2595	Outer_Full	19.16	22.39	/	Pass
	2610	Outer_Full	19.11	21.73	/	Pass
CP-OFDM 256 QAM	2580	Outer_Full	19.08	20.51	/	Pass
	2595	Outer_Full	19.05	20.55	/	Pass
	2610	Outer_Full	19.09	20.61	/	Pass

5.4.2 Test Graph

n38_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_PI/2_BPSK_2580MHz_Outer_Full



n38_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_PI/2_BPSK_2595MHz_Outer_Full

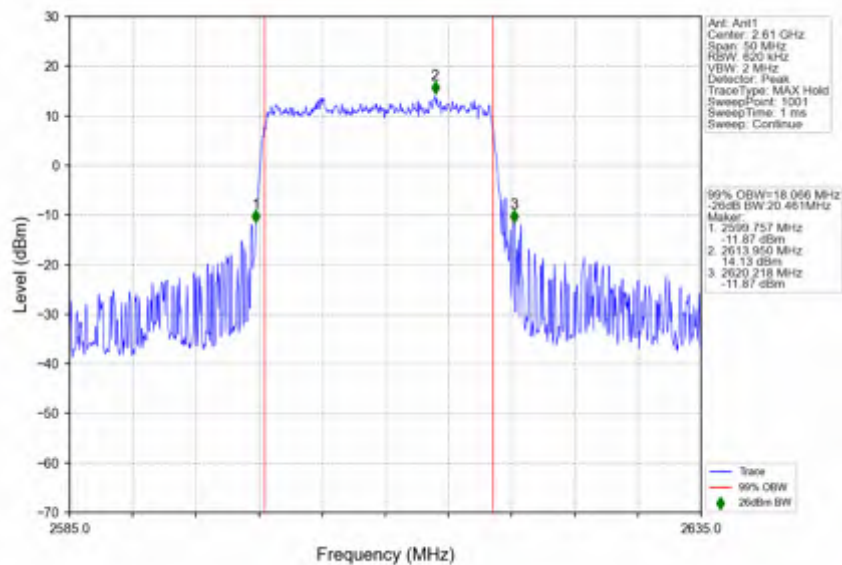


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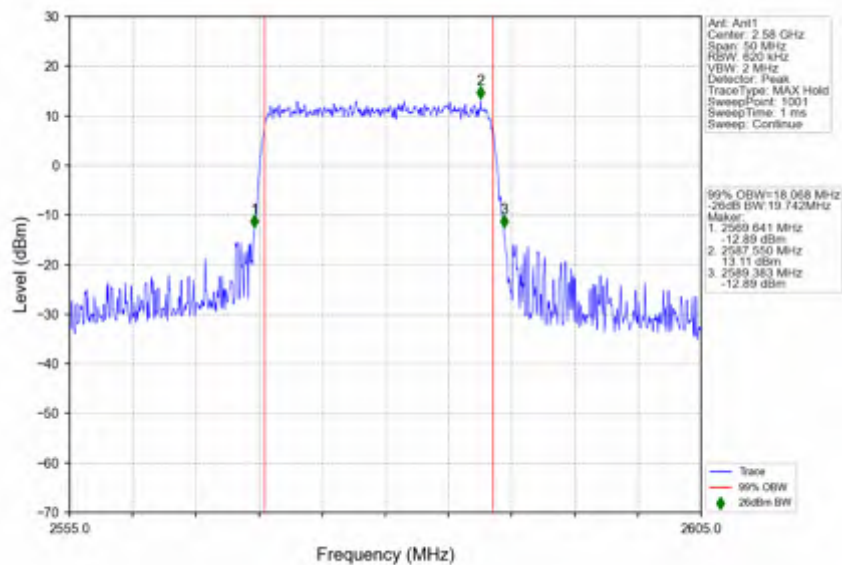
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n38 15kHz SISO NTVN 20MHz DFT-s-OFDM PI/2 BPSK 2610MHz Outer Full



n38_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_2580MHz_Outer_Full



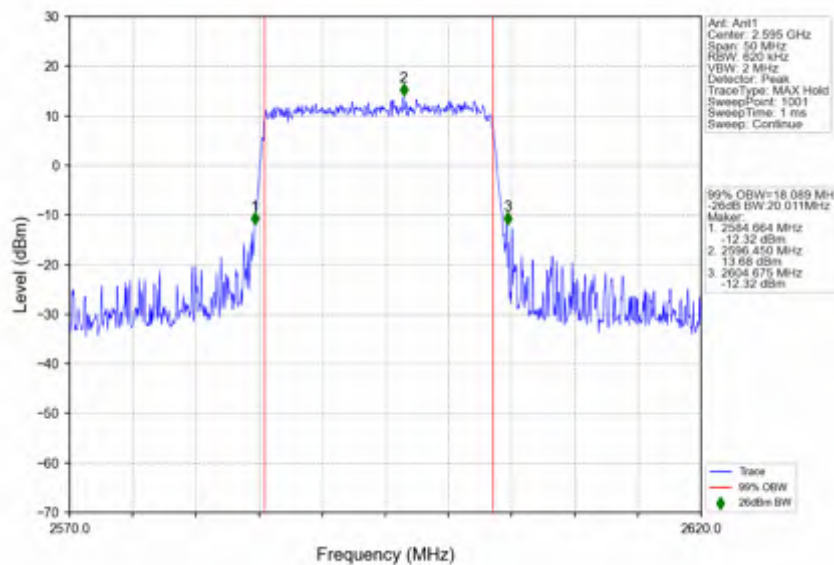
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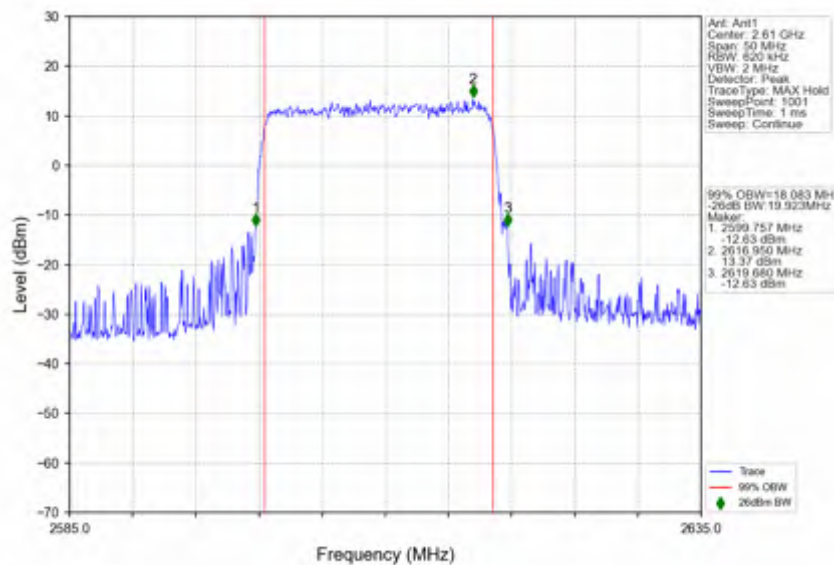
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n38_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2595MHz_Outer_Full



n38_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2610MHz_Outer_Full



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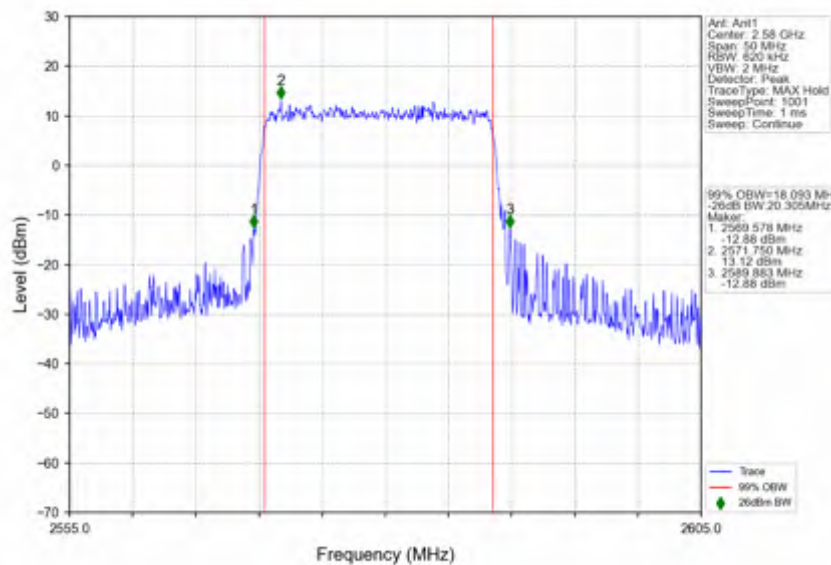
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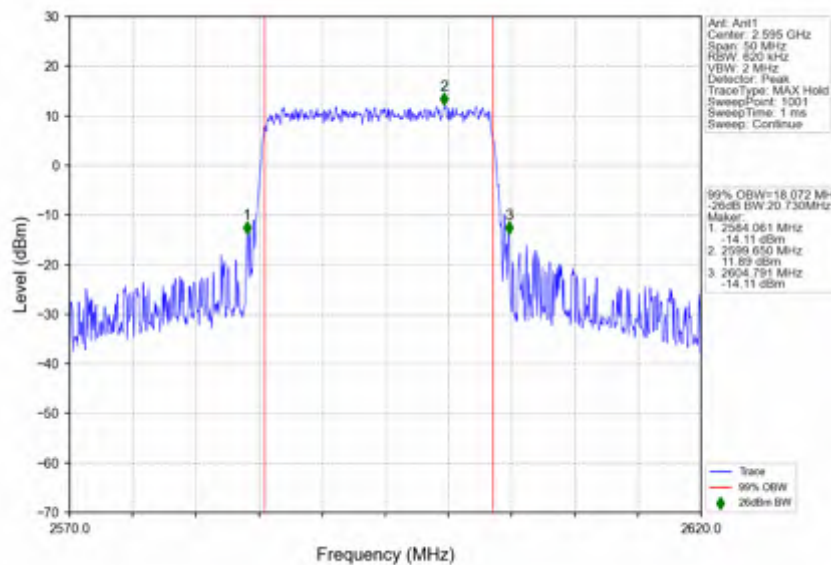
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n38 15kHz SISO NTNV 20MHz DFT-s-OFDM 16 QAM 2580MHz Outer Full



n38	15kHz	SISO	NTNV	20MHz	DFT-s-OFDM	16 QAM	2595MHz	Outer	Full
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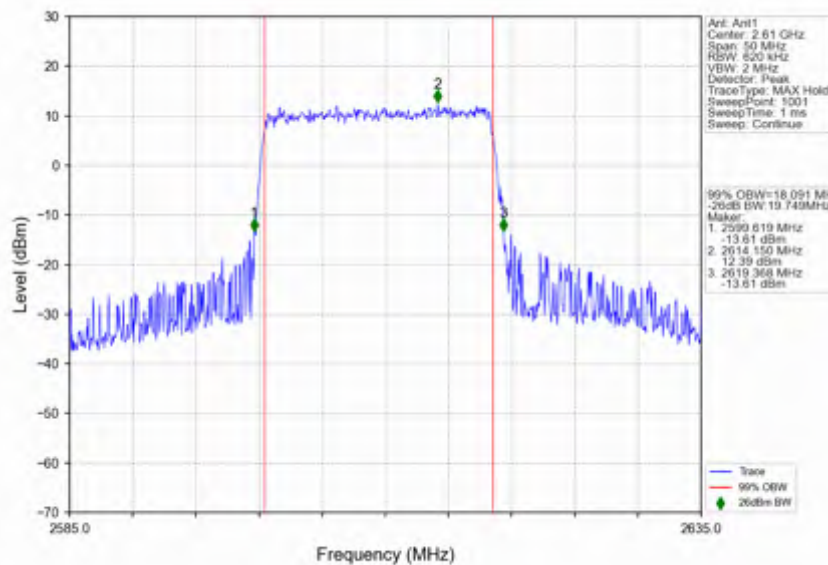
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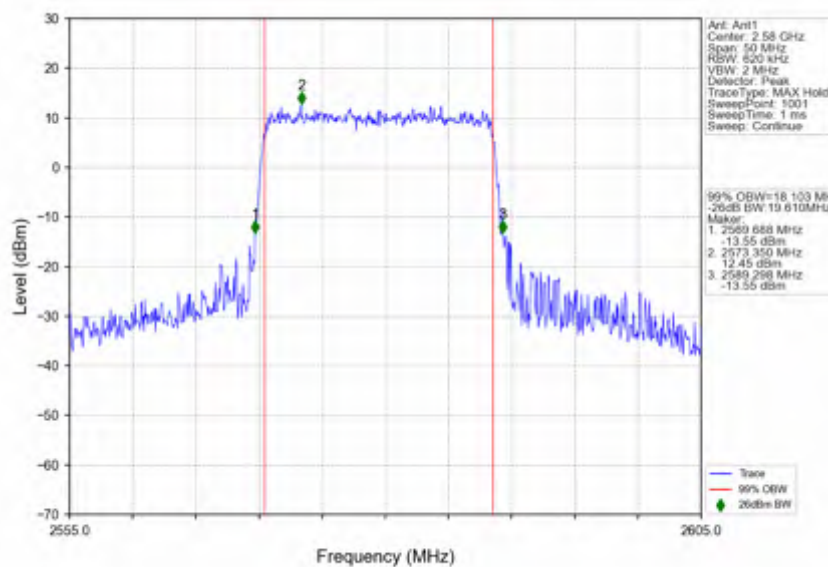
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n38 15kHz SISO NTNv 20MHz DFT-s-OFDM 16 QAM 2610MHz Outer Full



n38 15kHz SISO NTV 20MHz DFT-s-OFDM 64 QAM 2580MHz Outer Full

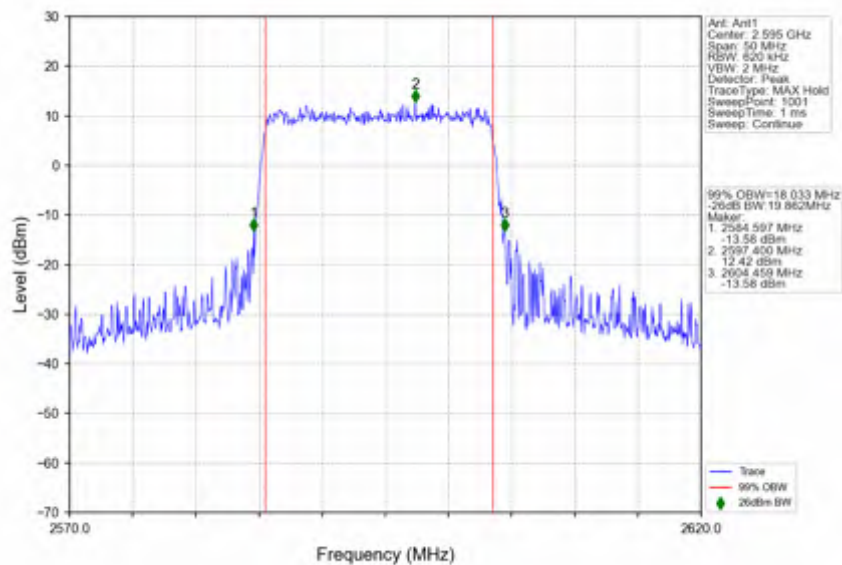


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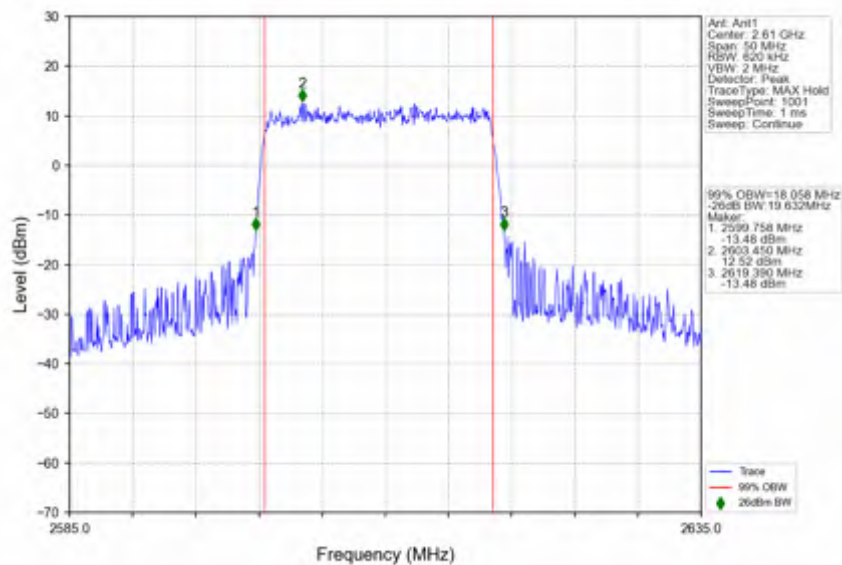
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n38_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_2595MHz_Outer_Full



n38_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_2610MHz_Outer_Full



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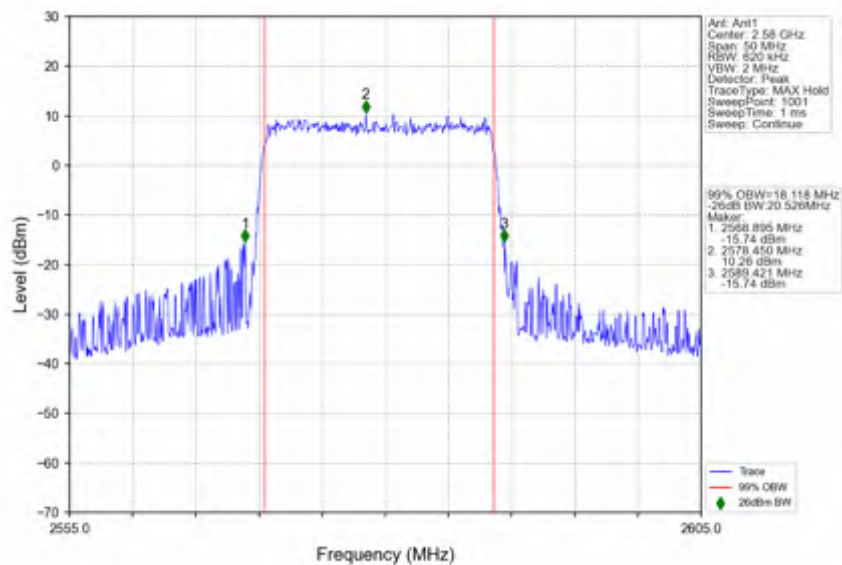
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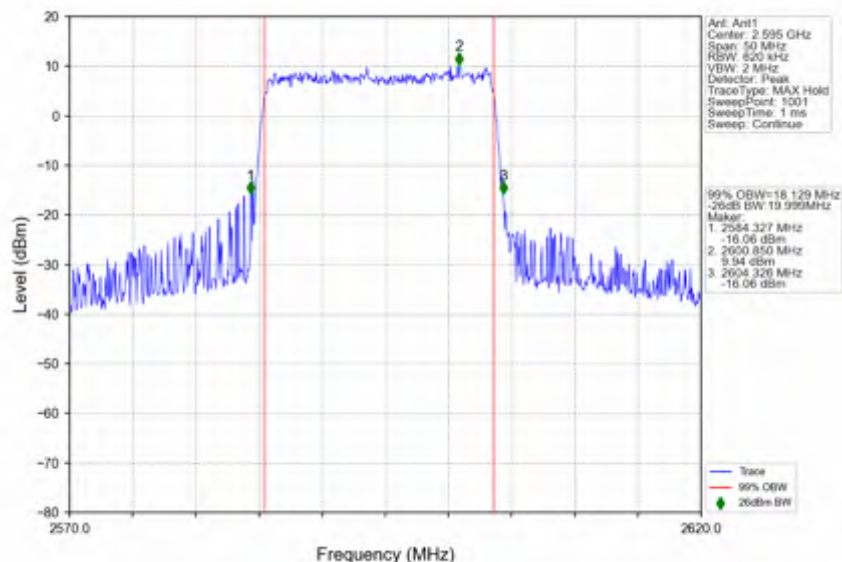
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n38_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_2580MHz_Outer_Full



n38	15kHz	SISO	NTNV	20MHz	DFT-s-OFDM	256 QAM	2595MHz	Outer	Full
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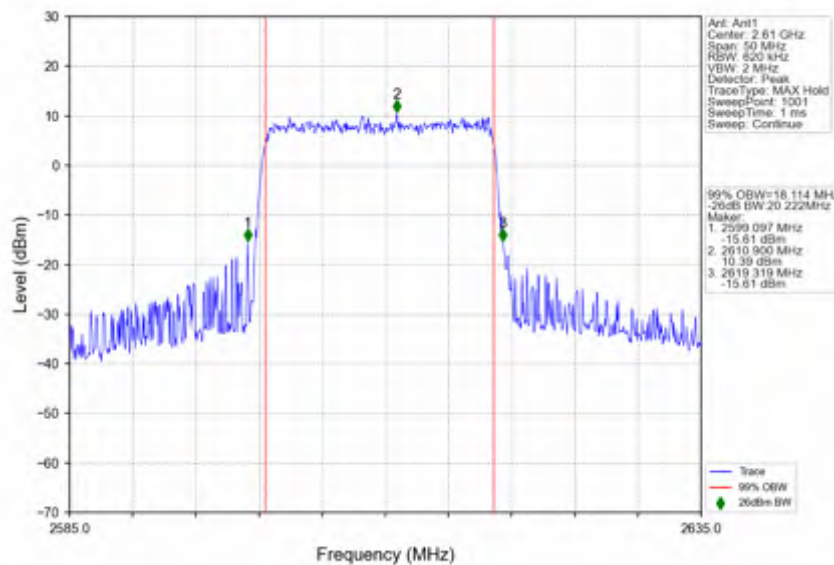


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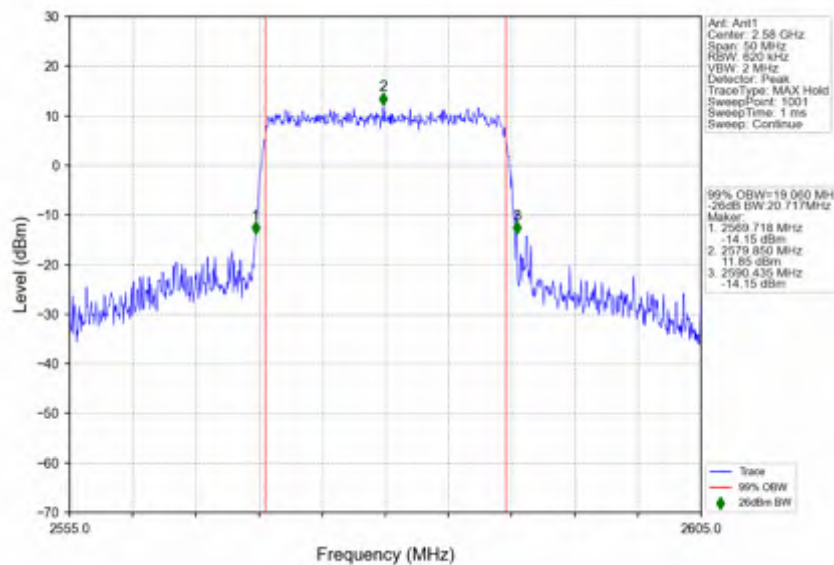
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n38_15kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_2610MHz_Outer_Full



n38_15kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2580MHz_Outer_Full



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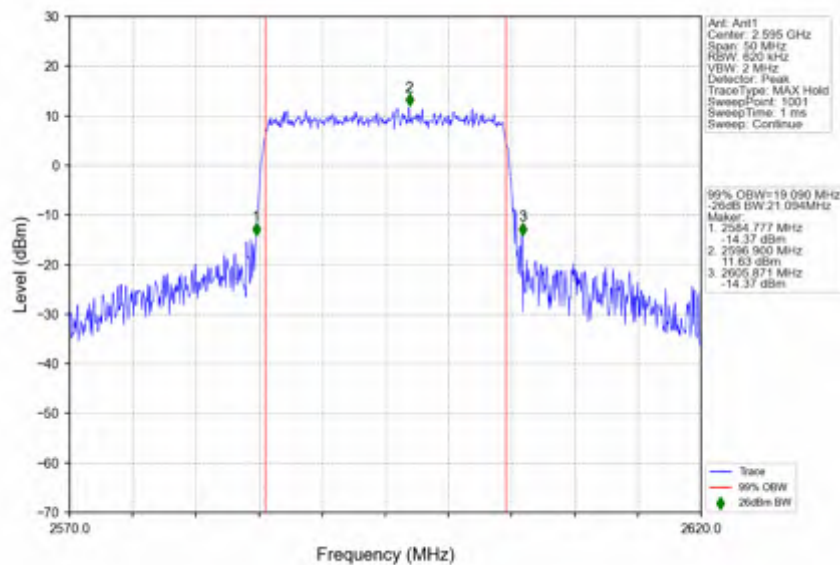
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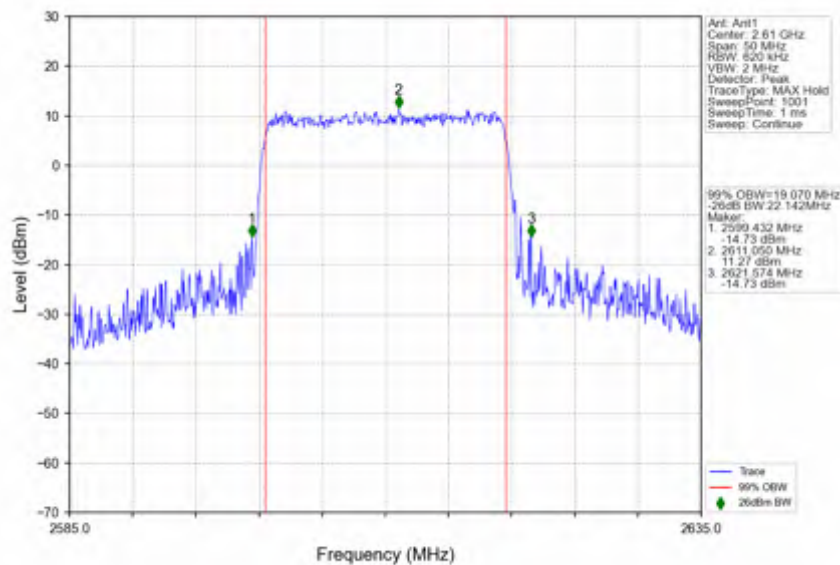
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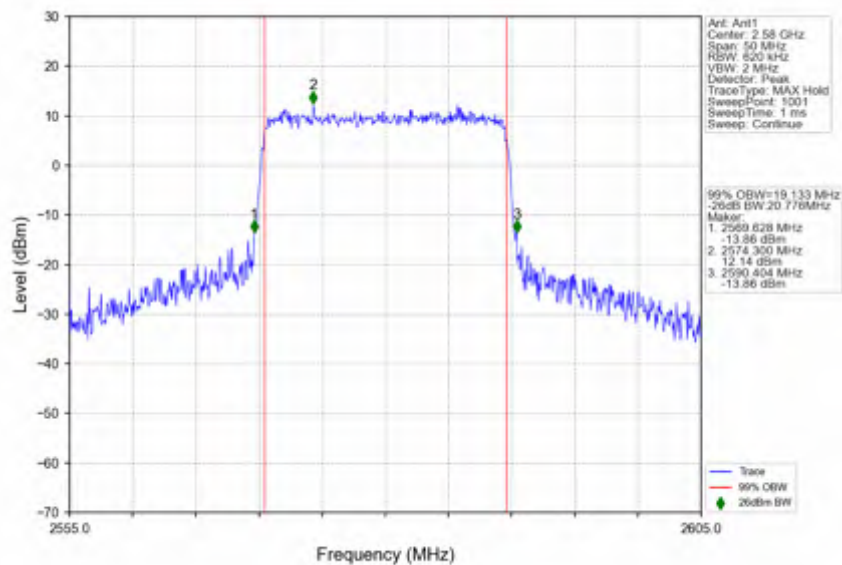
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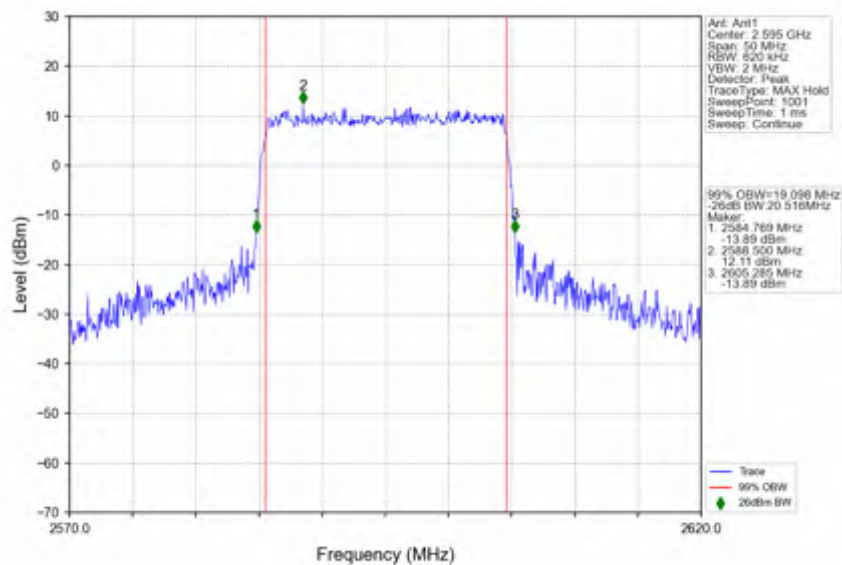
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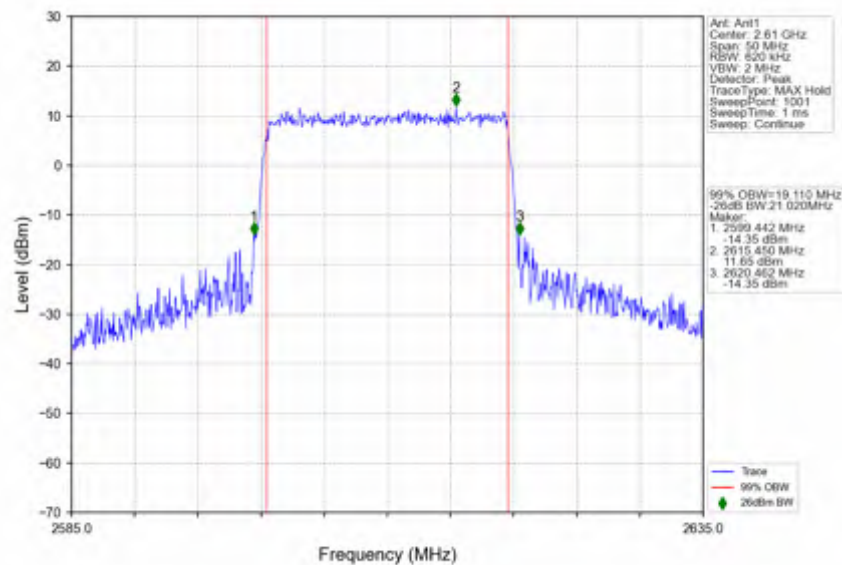
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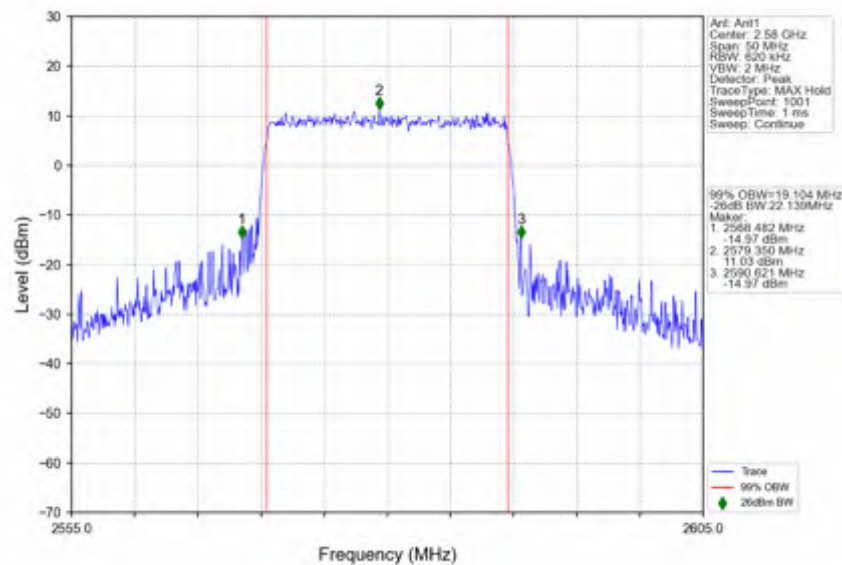
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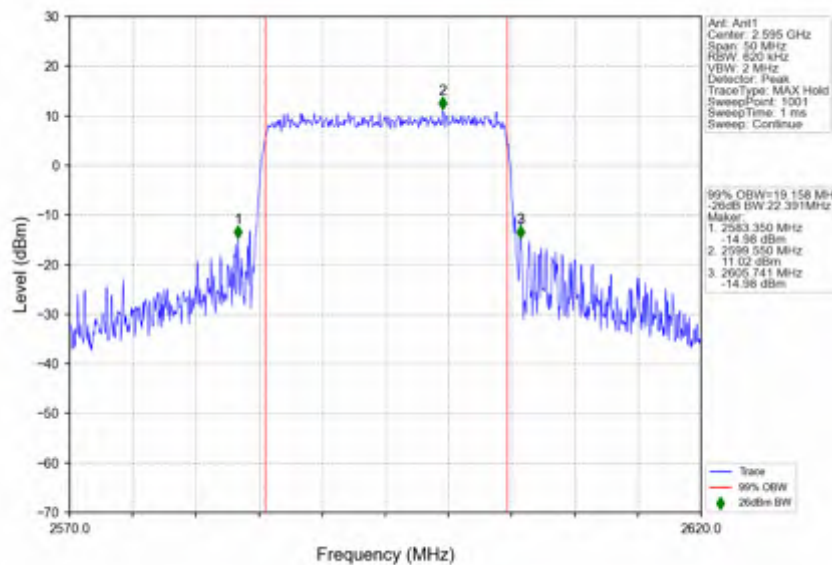
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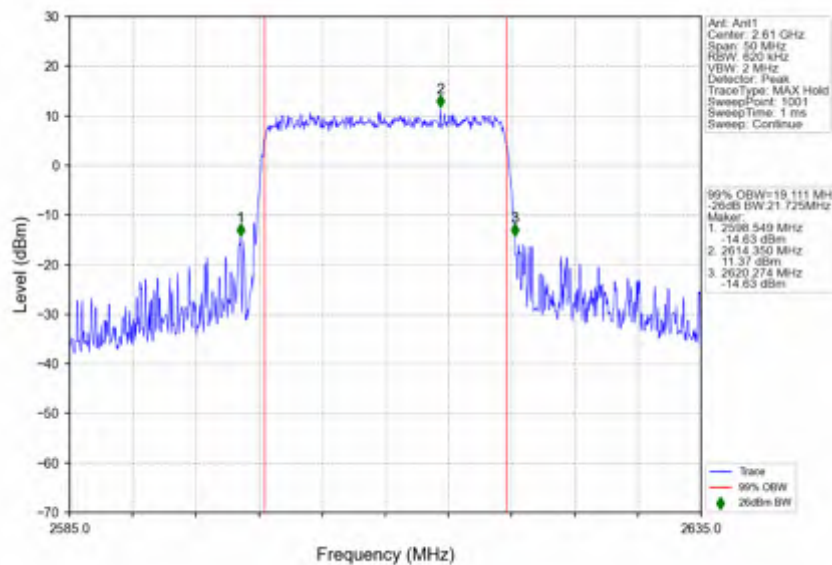
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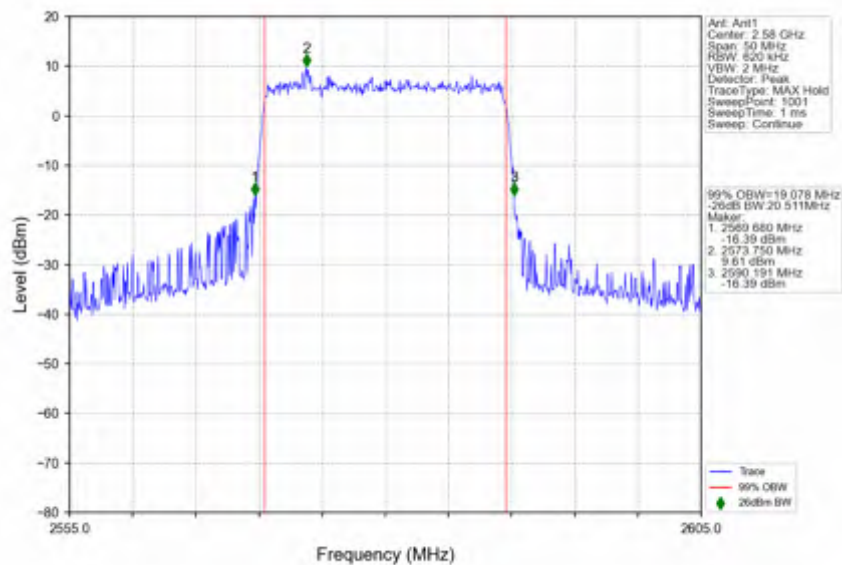
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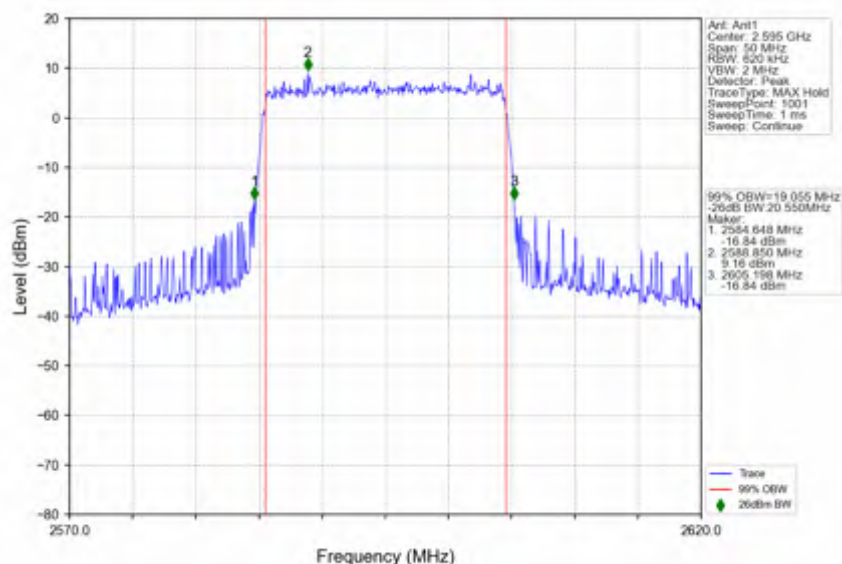
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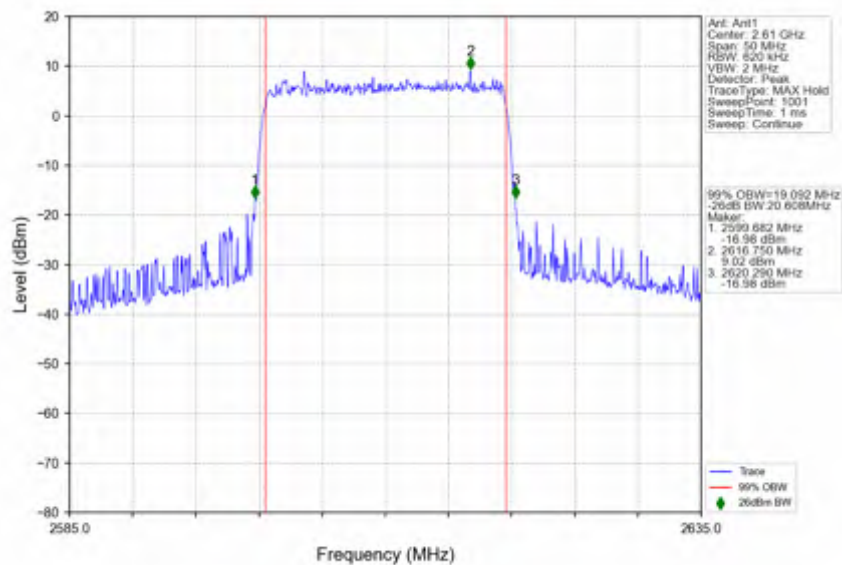
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n38_15kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_2610MHz_Outer_Full



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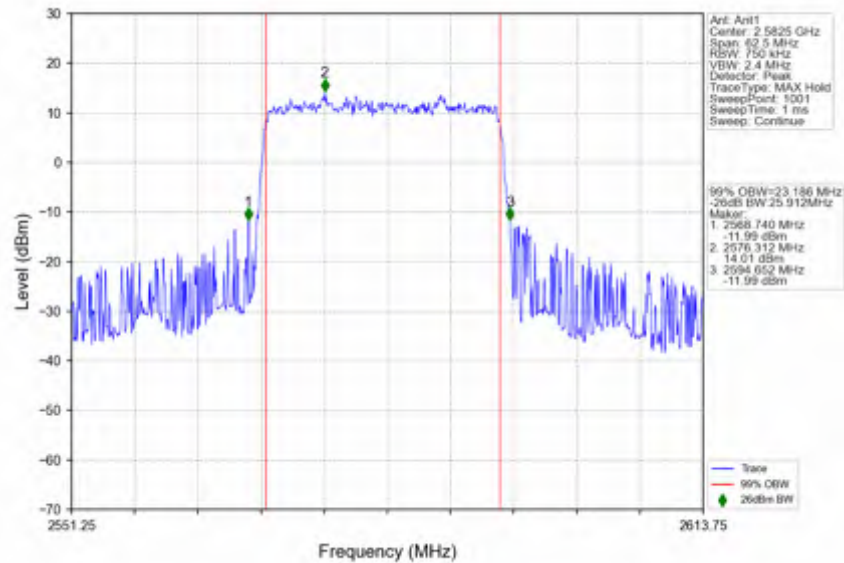
5.5 15k_SISO_25MHz_NTNV

5.5.1 Test Result

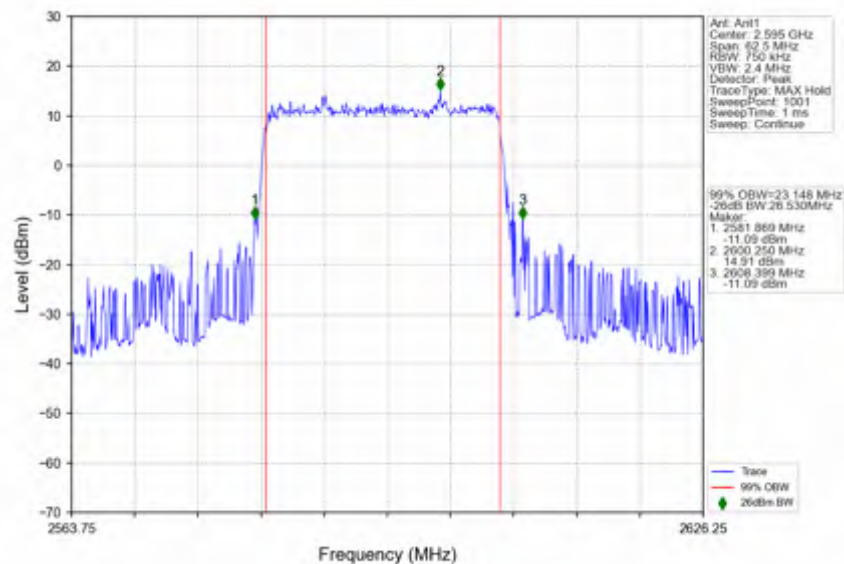
5G NR n38 SCS=15kHz SISO 25MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2582.5	Outer_Full	23.19	25.91	/	Pass
	2595	Outer_Full	23.15	26.53	/	Pass
	2607.5	Outer_Full	23.16	26.30	/	Pass
DFT-s-OFDM QPSK	2582.5	Outer_Full	23.08	26.36	/	Pass
	2595	Outer_Full	23.12	25.24	/	Pass
	2607.5	Outer_Full	23.11	24.99	/	Pass
DFT-s-OFDM 16 QAM	2582.5	Outer_Full	23.23	25.68	/	Pass
	2595	Outer_Full	23.16	25.28	/	Pass
	2607.5	Outer_Full	23.19	24.99	/	Pass
DFT-s-OFDM 64 QAM	2582.5	Outer_Full	23.10	25.64	/	Pass
	2595	Outer_Full	23.09	26.14	/	Pass
	2607.5	Outer_Full	23.11	24.78	/	Pass
DFT-s-OFDM 256 QAM	2582.5	Outer_Full	23.11	27.27	/	Pass
	2595	Outer_Full	23.08	26.57	/	Pass
	2607.5	Outer_Full	23.14	26.30	/	Pass
CP-OFDM QPSK	2582.5	Outer_Full	23.97	28.57	/	Pass
	2595	Outer_Full	23.99	27.02	/	Pass
	2607.5	Outer_Full	23.94	27.41	/	Pass
CP-OFDM 16 QAM	2582.5	Outer_Full	23.95	25.81	/	Pass
	2595	Outer_Full	23.97	25.91	/	Pass
	2607.5	Outer_Full	23.92	28.02	/	Pass
CP-OFDM 64 QAM	2582.5	Outer_Full	24.00	25.69	/	Pass
	2595	Outer_Full	23.92	28.84	/	Pass
	2607.5	Outer_Full	23.99	27.43	/	Pass
CP-OFDM 256 QAM	2582.5	Outer_Full	23.95	27.80	/	Pass
	2595	Outer_Full	23.97	28.33	/	Pass
	2607.5	Outer_Full	24.00	27.09	/	Pass

5.5.2 Test Graph

n38_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_2582.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM PI/2 BPSK_2595MHz_Outer_Full



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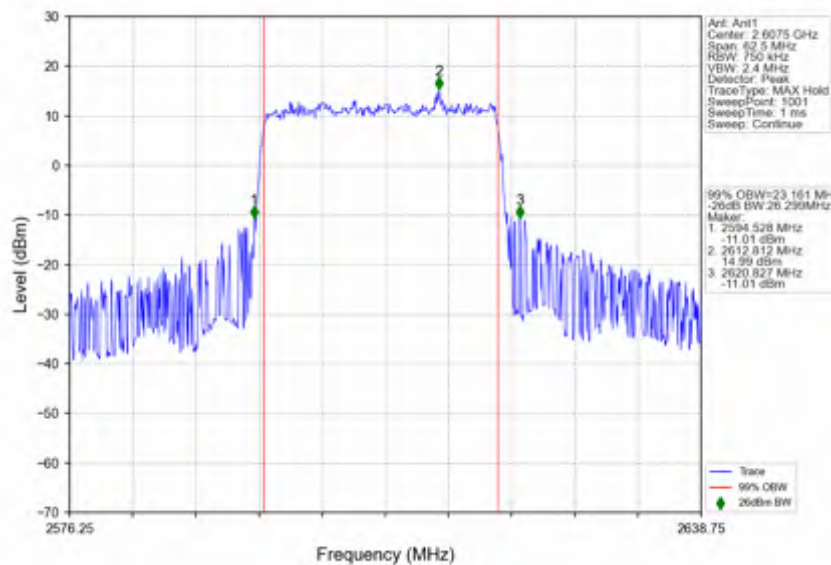
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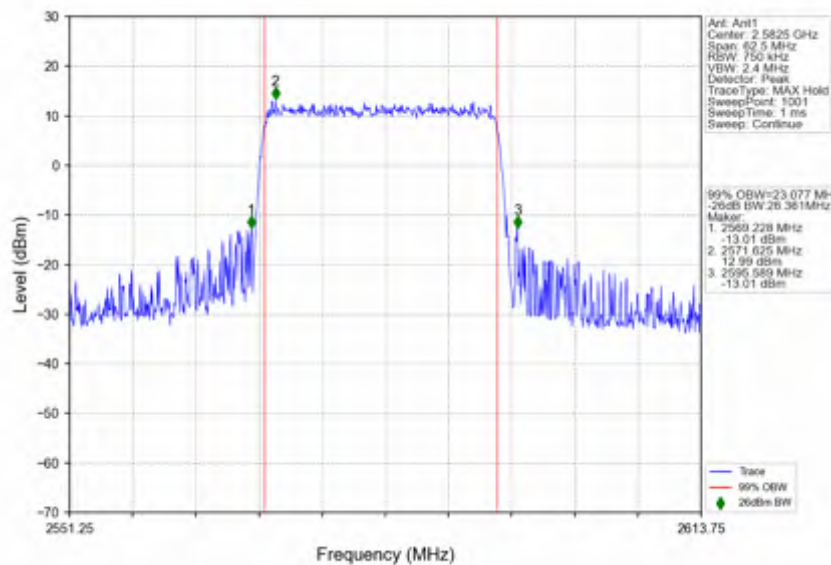
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n38_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM_PI/2_BPSK_2607.5MHz_Outer_Full



n38 15kHz SISO NTN 25MHz DFT-s-OFDM QPSK 2582.5MHz Outer Full

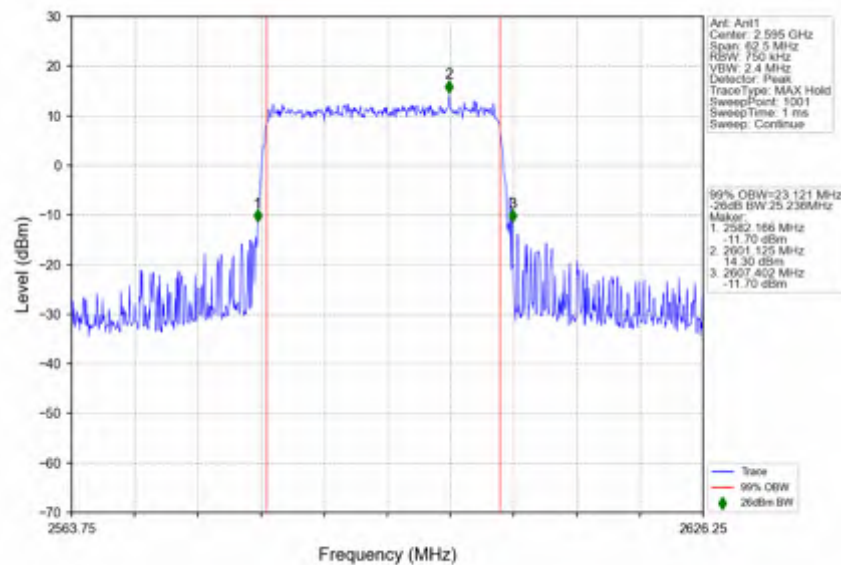


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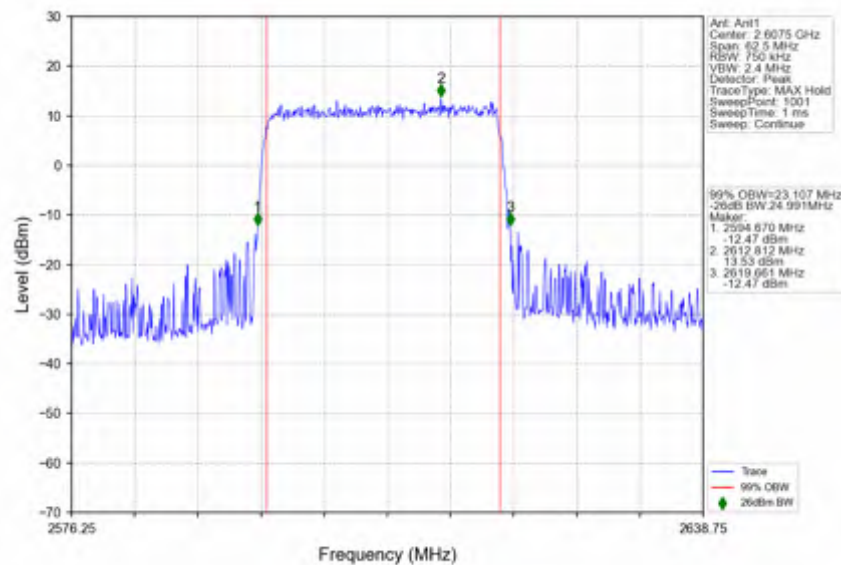
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n38_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM QPSK_2607.5MHz_Outer_Full



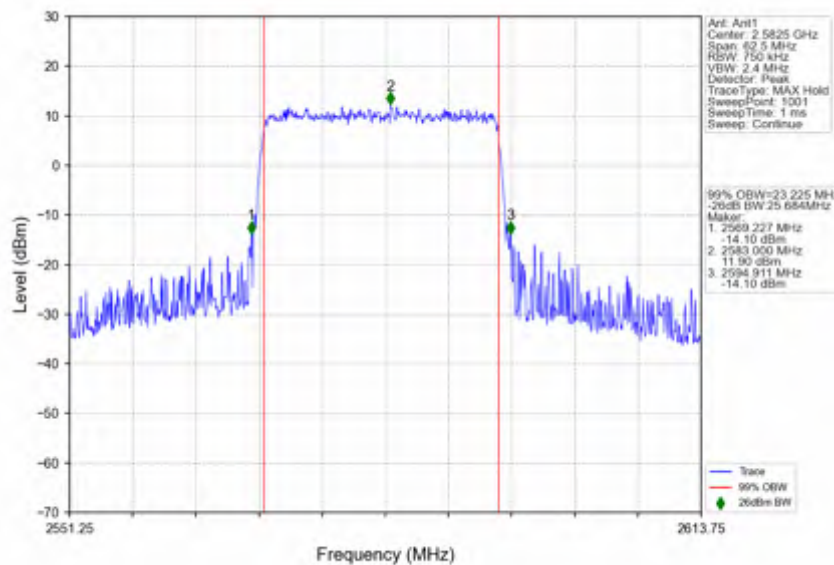
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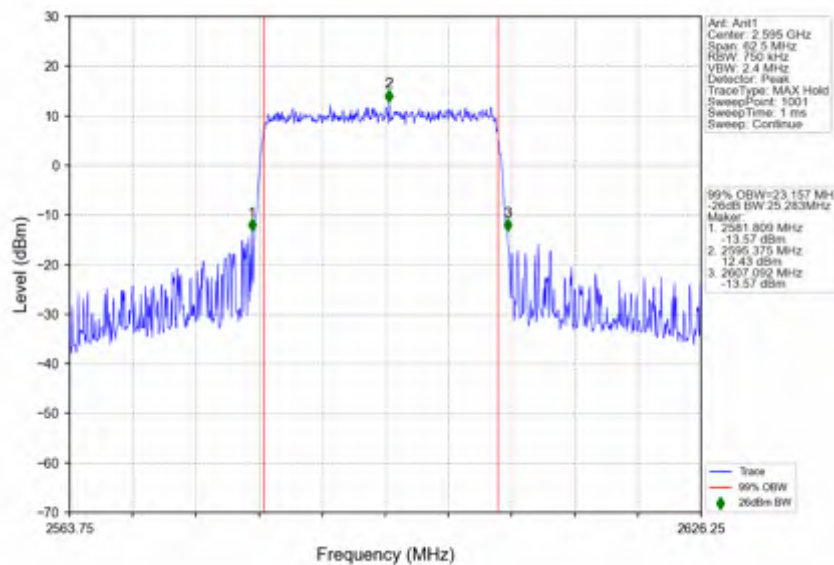
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n38_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM_16_QAM_2582.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_25MHz_DFT-s-OFDM_16_QAM_2595MHz_Outer_Full



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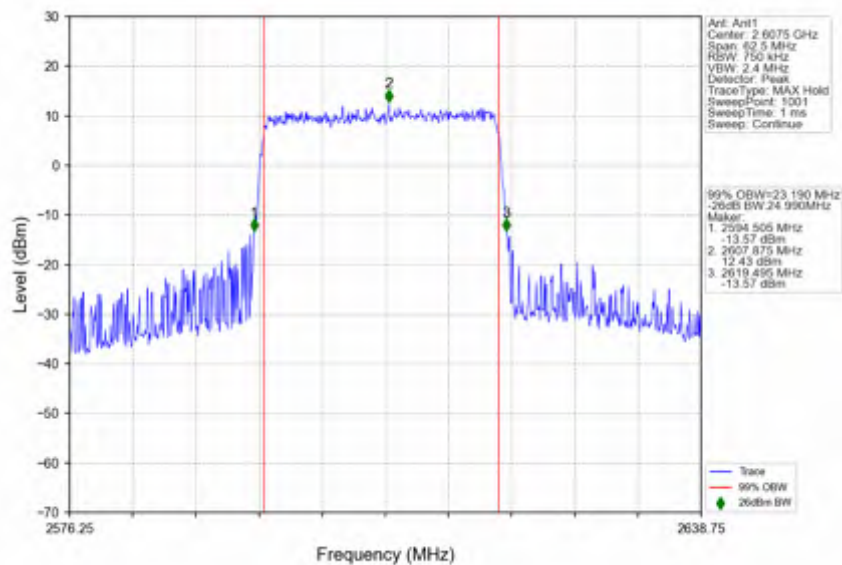
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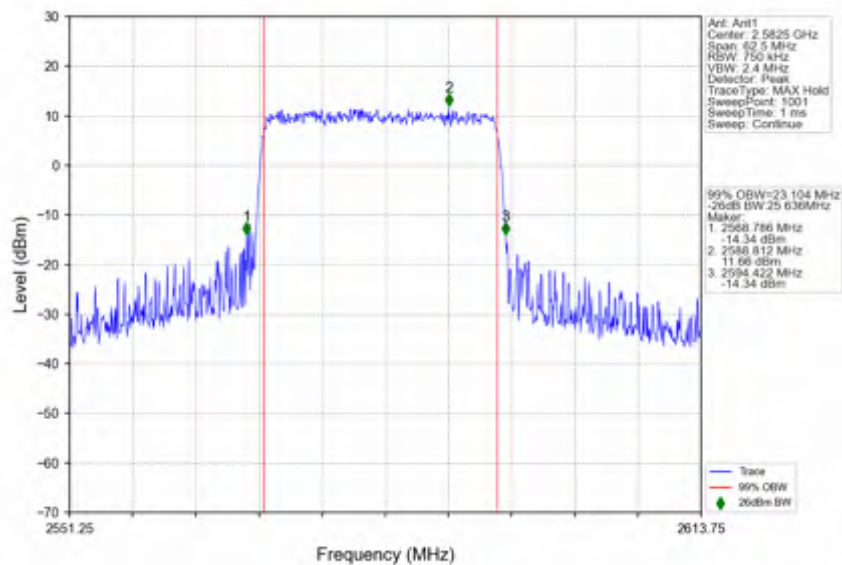
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n38_15kHz_SISO_NTV_25MHz_DFT-s-OFDM 16 QAM_2607.5MHz_Outer_Full



n38_15kHz_SISO_NTV_25MHz_DFT-s-OFDM 64 QAM_2582.5MHz_Outer_Full



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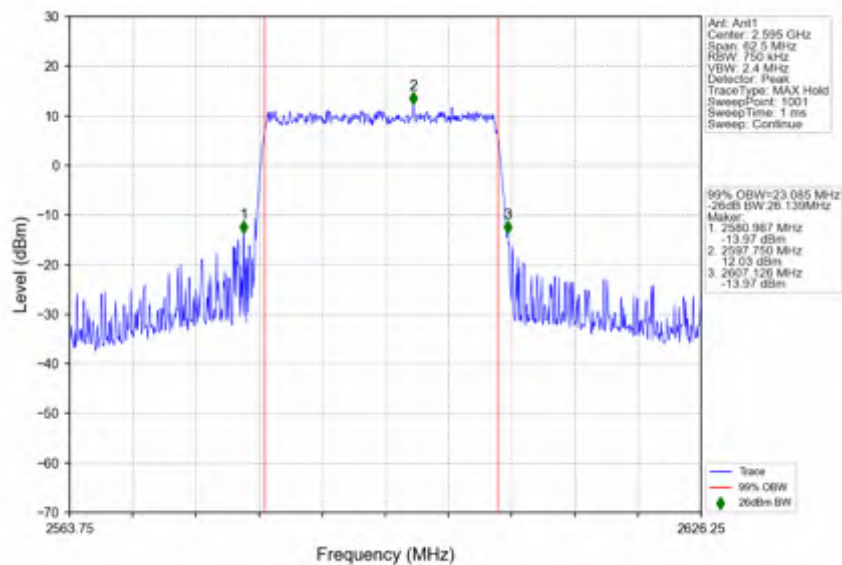
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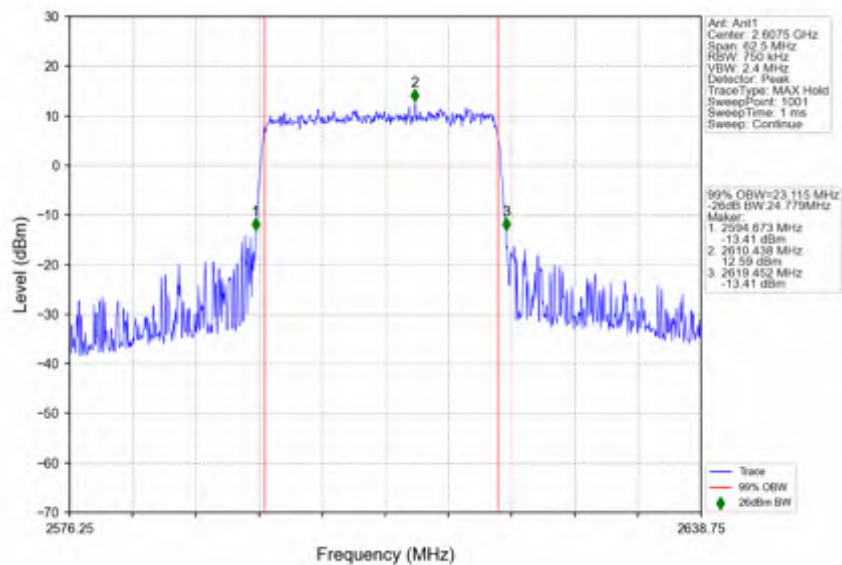
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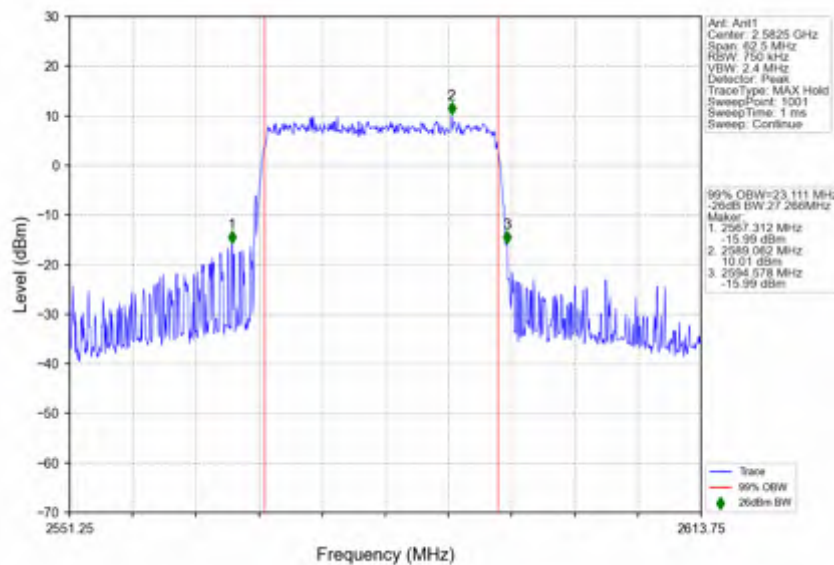
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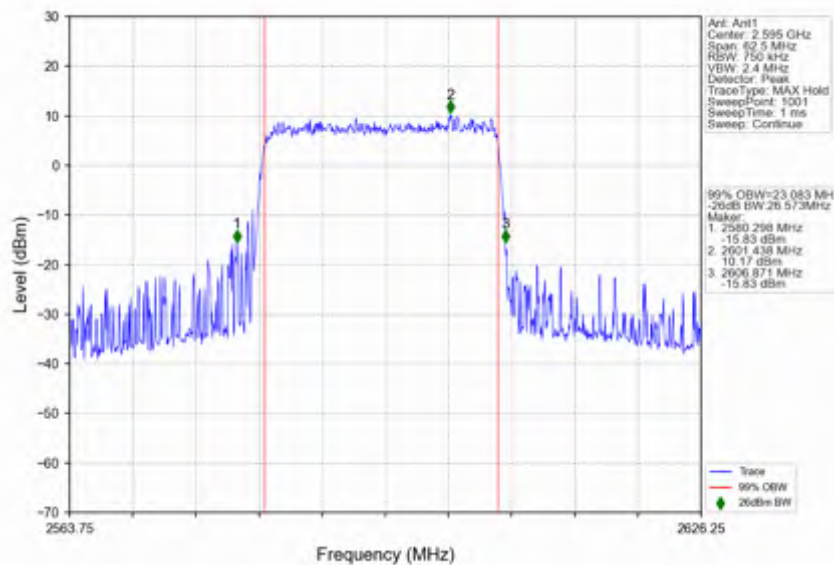
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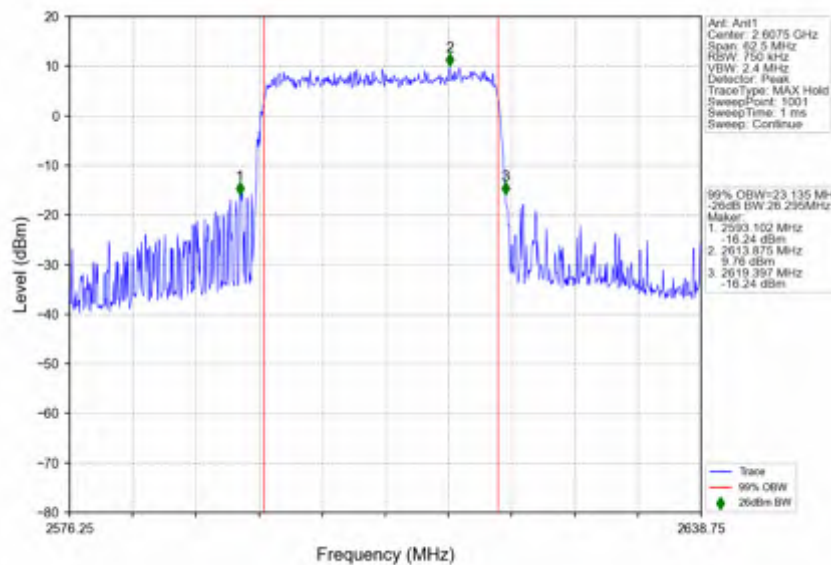
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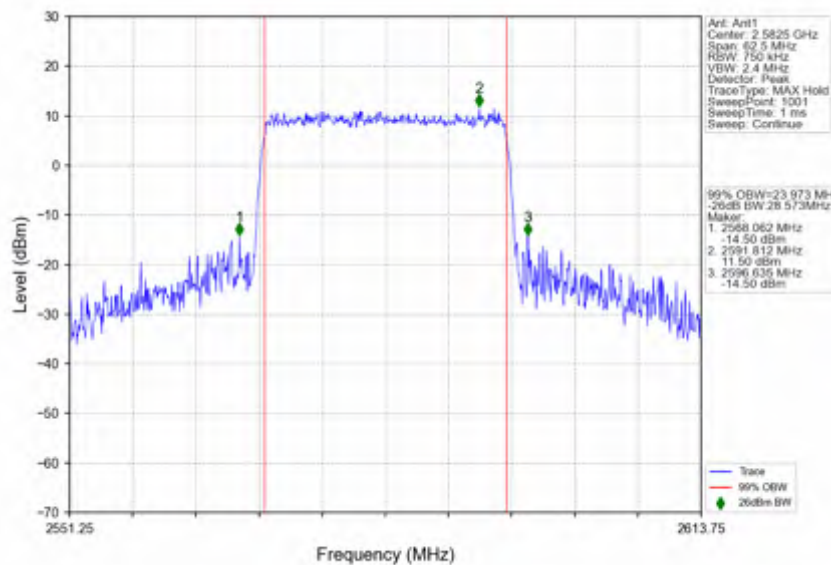
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n38_15kHz_SISO_NTNV_25MHz_CP-OFDM_QPSK_2582.5MHz_Outer_Full



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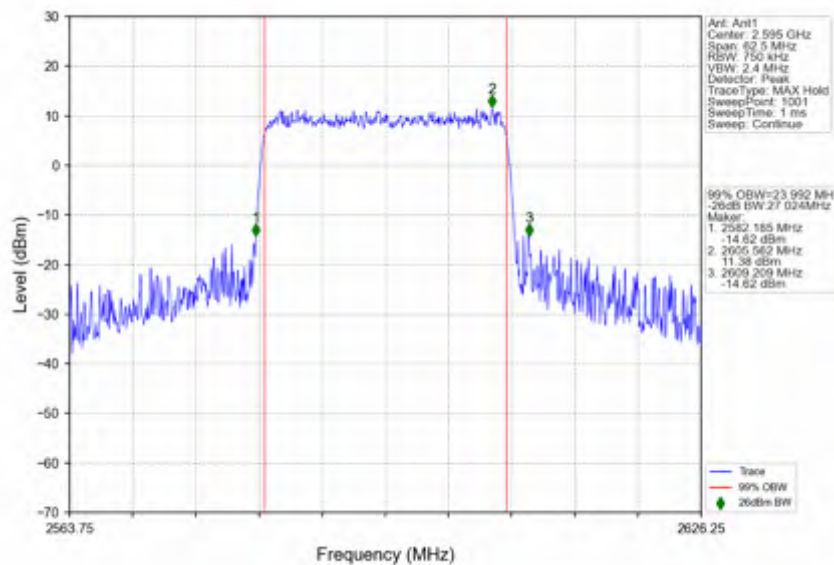
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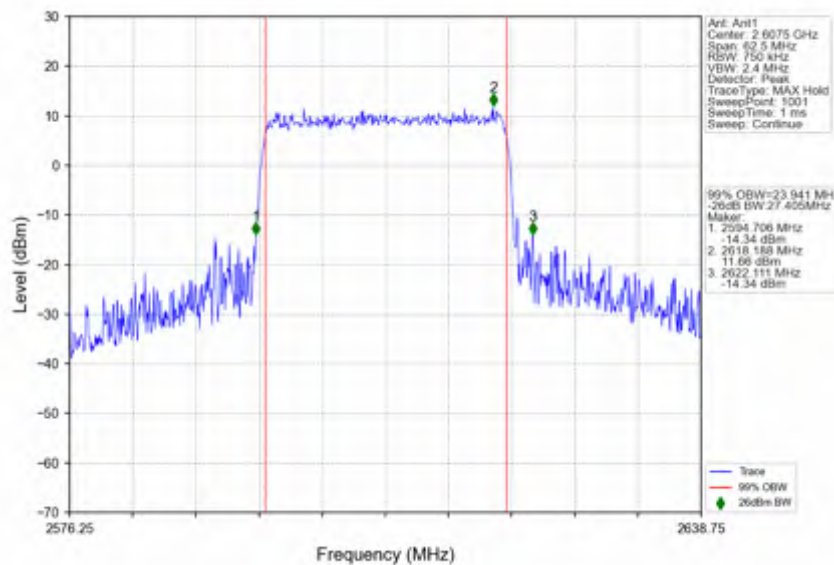
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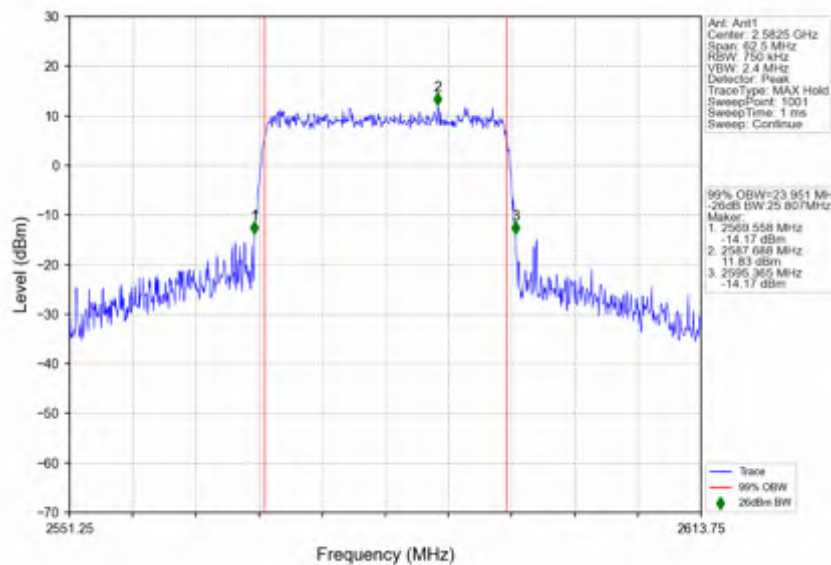
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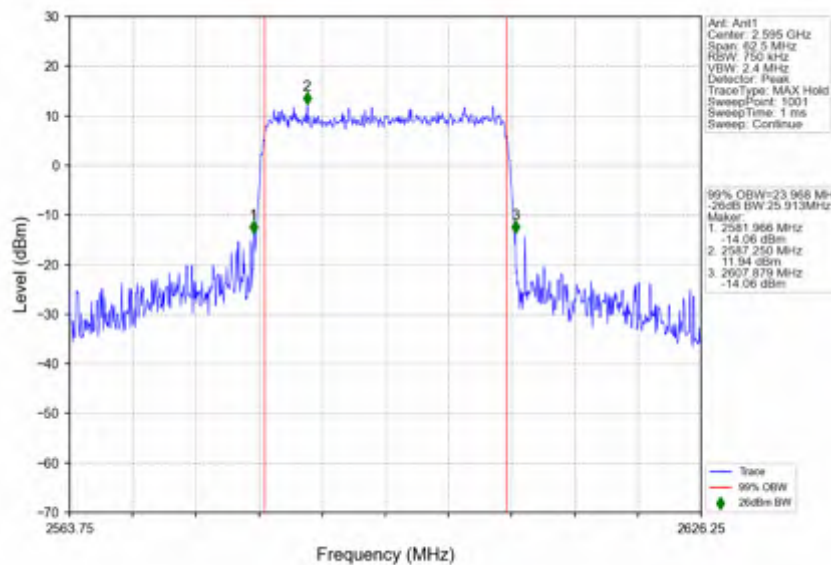
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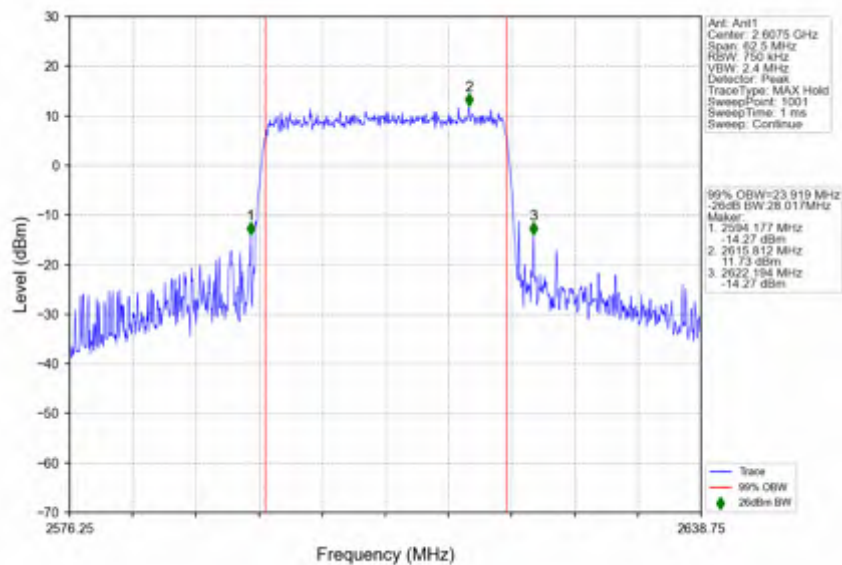
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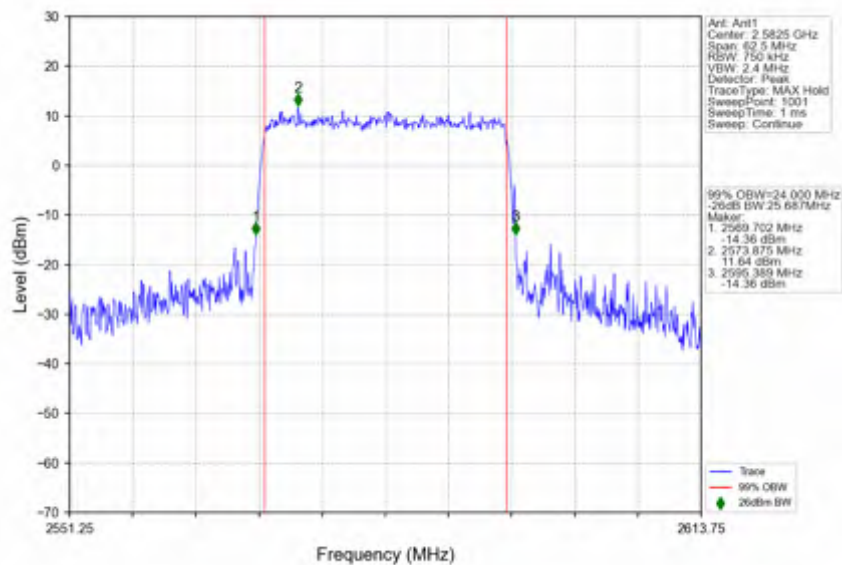
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n38_15kHz_SISO_NTNV_25MHz_CP-OFDM 16 QAM_2607.5MHz_Outer_Full



n38_15kHz_SISO_NTNV_25MHz_CP-OFDM 64 QAM_2582.5MHz_Outer_Full



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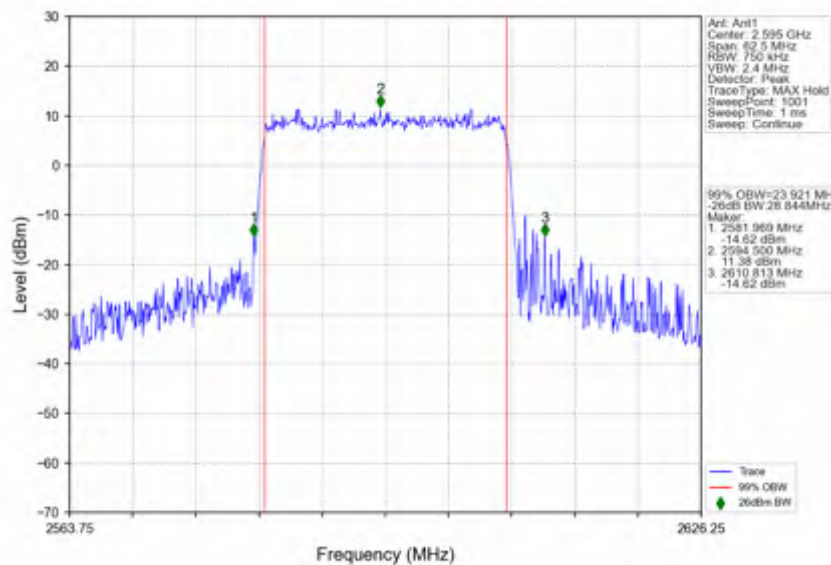
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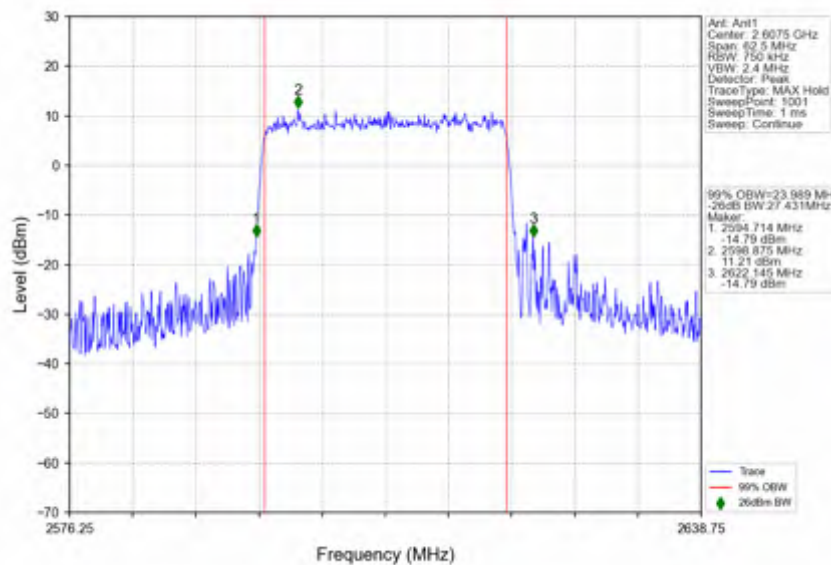
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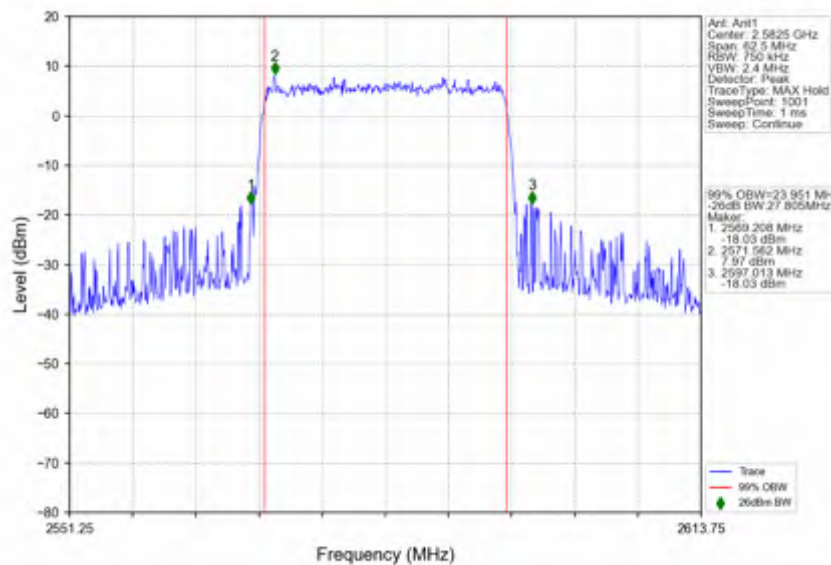
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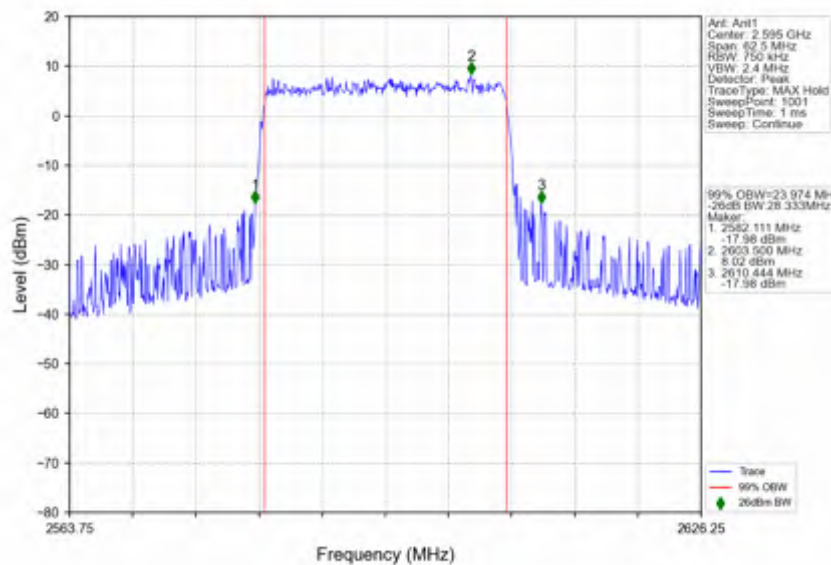
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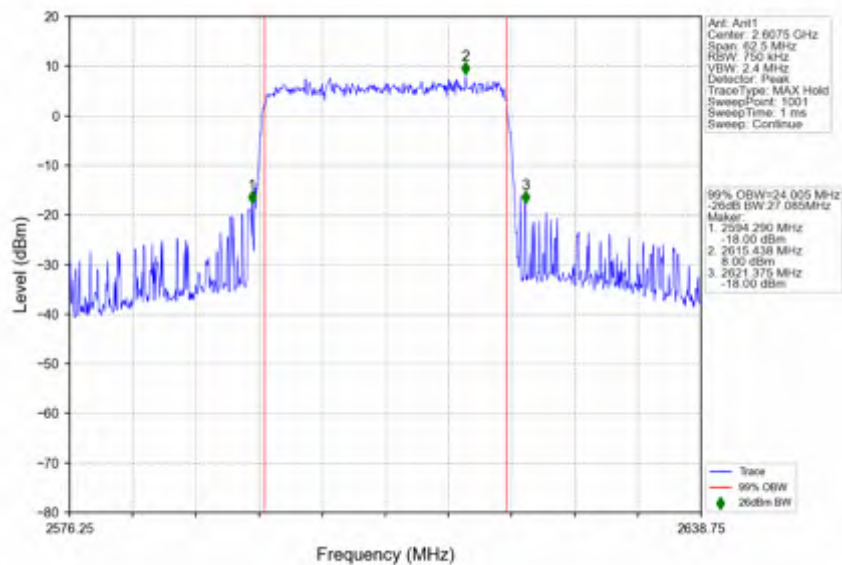
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5.6 15k_SISO_30MHz_NTNV

5.6.1 Test Result

5G NR n38 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	2585	Outer_Full	28.80	30.85	/	Pass
	2595	Outer_Full	28.89	30.72	/	Pass
	2605	Outer_Full	28.86	31.31	/	Pass
DFT-s-OFDM QPSK	2585	Outer_Full	28.84	30.85	/	Pass
	2595	Outer_Full	28.85	30.74	/	Pass
	2605	Outer_Full	28.83	31.14	/	Pass
DFT-s-OFDM 16 QAM	2585	Outer_Full	28.78	30.99	/	Pass
	2595	Outer_Full	28.87	30.87	/	Pass
	2605	Outer_Full	28.78	30.95	/	Pass
DFT-s-OFDM 64 QAM	2585	Outer_Full	28.86	31.11	/	Pass
	2595	Outer_Full	28.87	30.82	/	Pass
	2605	Outer_Full	28.85	31.15	/	Pass
DFT-s-OFDM 256 QAM	2585	Outer_Full	28.96	30.93	/	Pass
	2595	Outer_Full	28.91	31.44	/	Pass
	2605	Outer_Full	28.86	30.80	/	Pass
CP-OFDM QPSK	2585	Outer_Full	28.86	30.83	/	Pass
	2595	Outer_Full	28.83	31.05	/	Pass
	2605	Outer_Full	28.85	31.06	/	Pass
CP-OFDM 16 QAM	2585	Outer_Full	28.83	30.80	/	Pass
	2595	Outer_Full	28.73	30.88	/	Pass
	2605	Outer_Full	28.85	31.39	/	Pass
CP-OFDM 64 QAM	2585	Outer_Full	28.84	30.83	/	Pass
	2595	Outer_Full	28.87	30.99	/	Pass
	2605	Outer_Full	28.85	31.07	/	Pass
CP-OFDM 256 QAM	2585	Outer_Full	28.83	32.06	/	Pass
	2595	Outer_Full	28.82	30.88	/	Pass
	2605	Outer_Full	28.69	30.74	/	Pass



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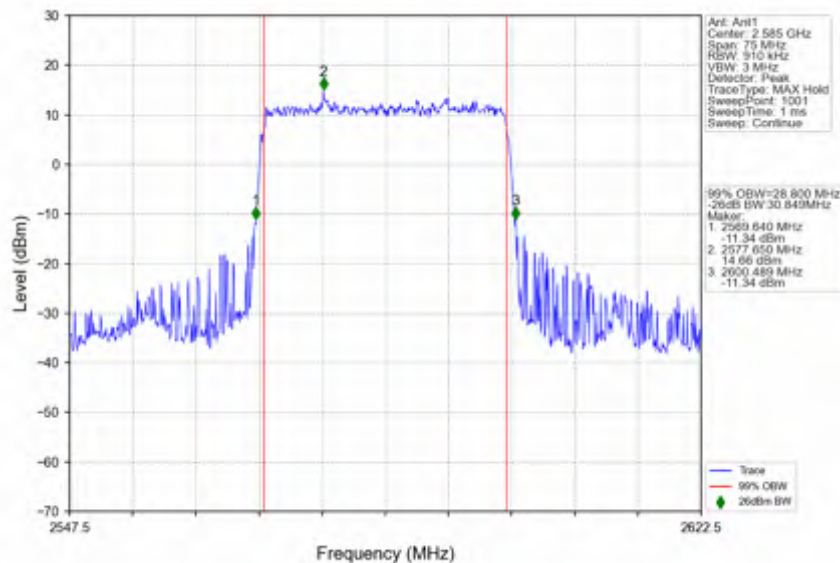
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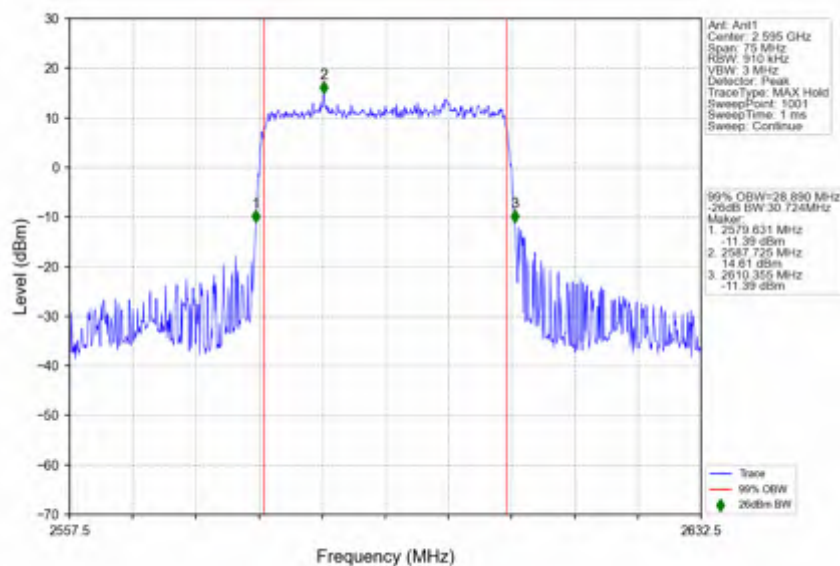
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5.6.2 Test Graph

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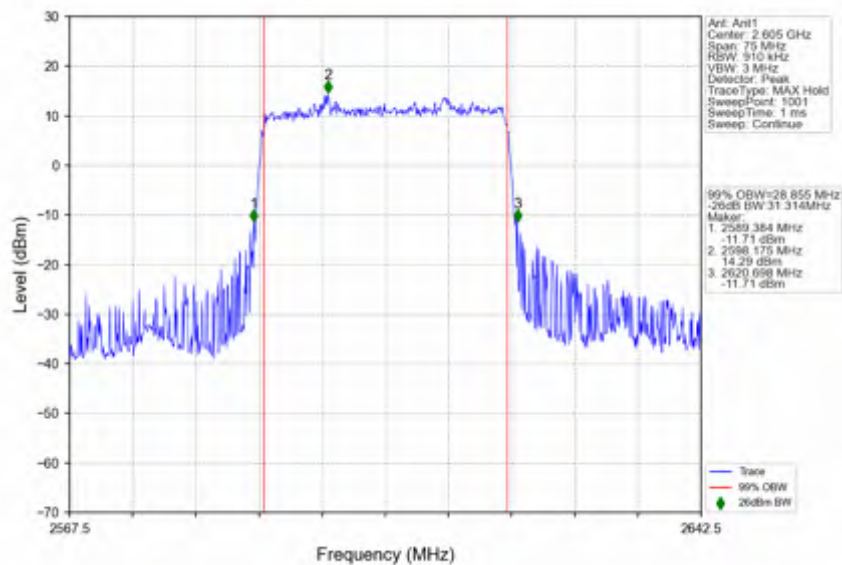
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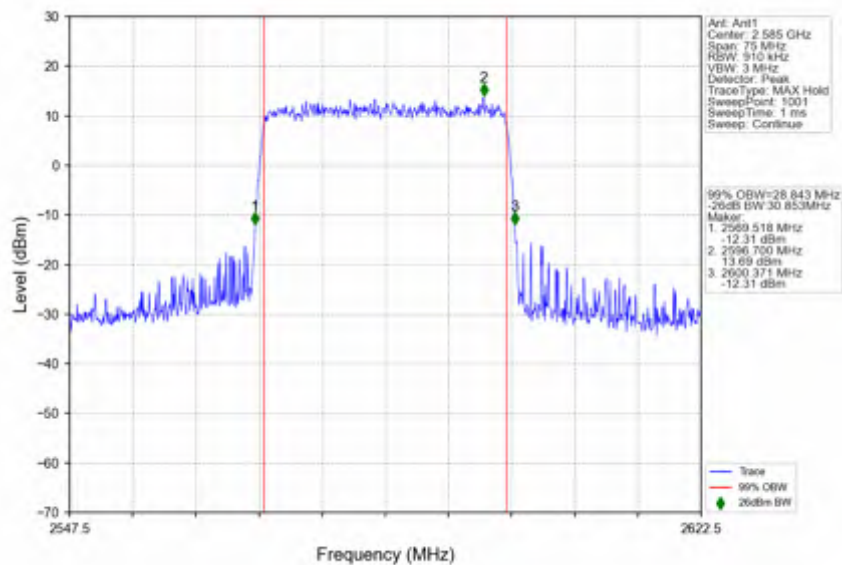
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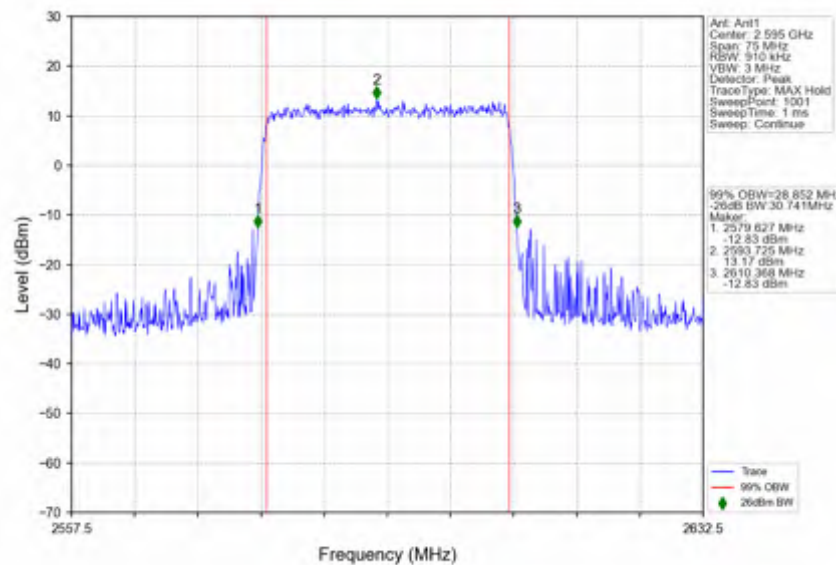


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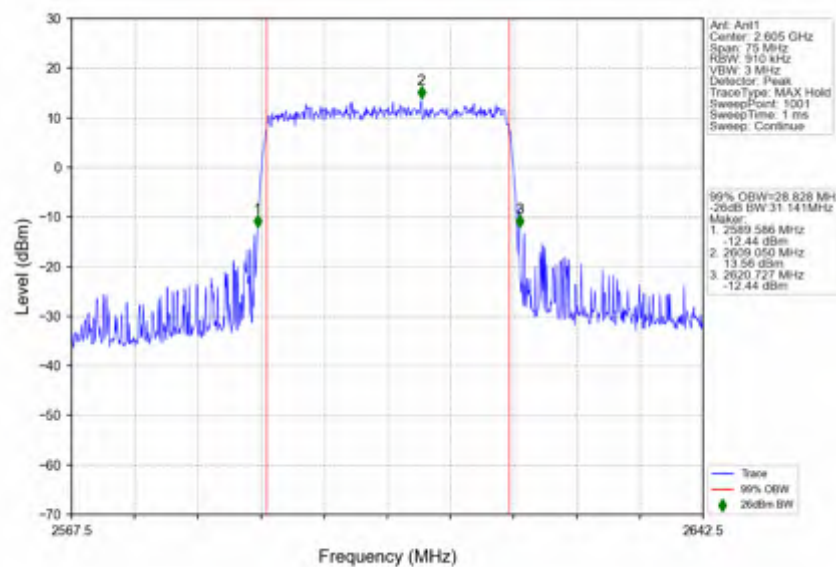
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n38	15kHz	SISO	NTNV	30MHz	DFT-s-OFDM	QPSK	2605MHz	Outer	Full
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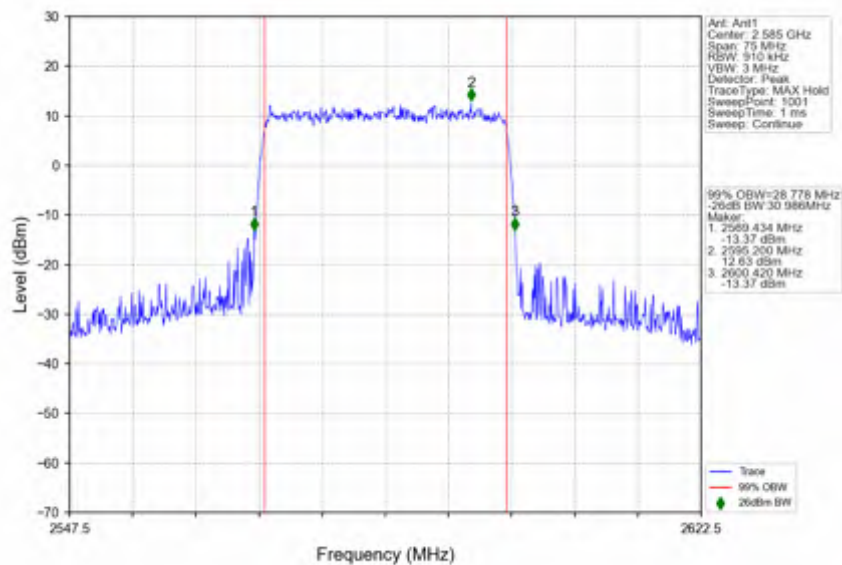


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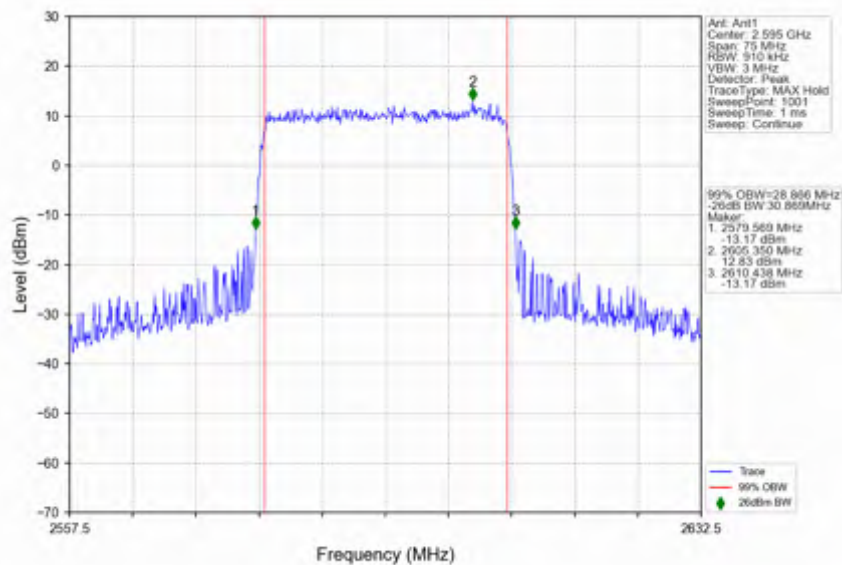
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n38 15kHz SISO NTNv 30MHz DFT-s-OFDM 16 QAM 2595MHz Outer Full



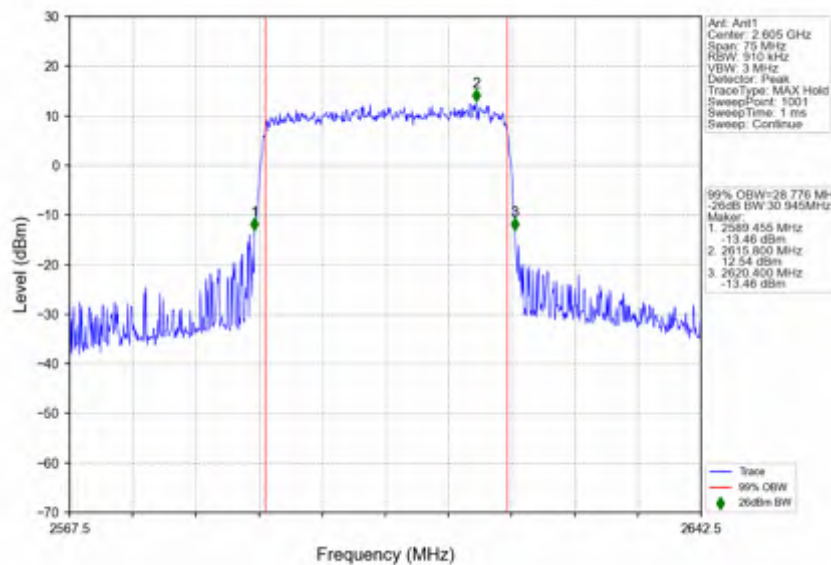
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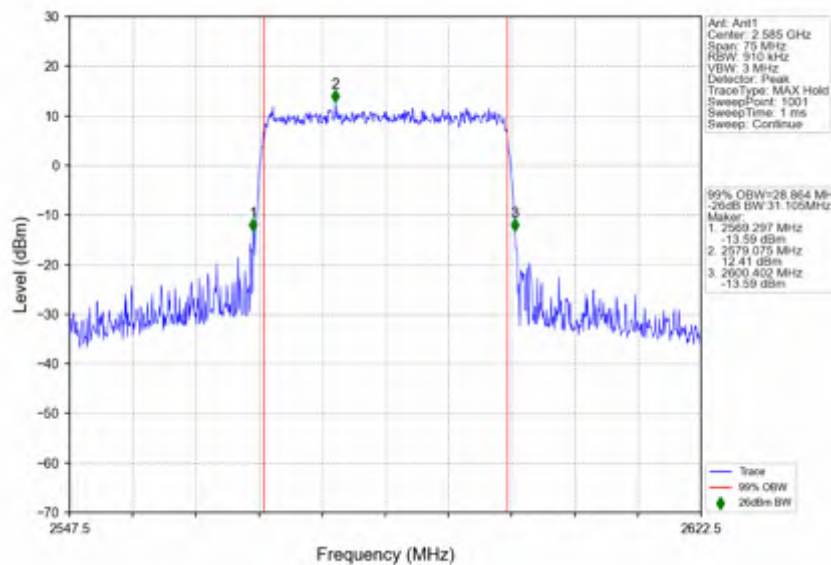
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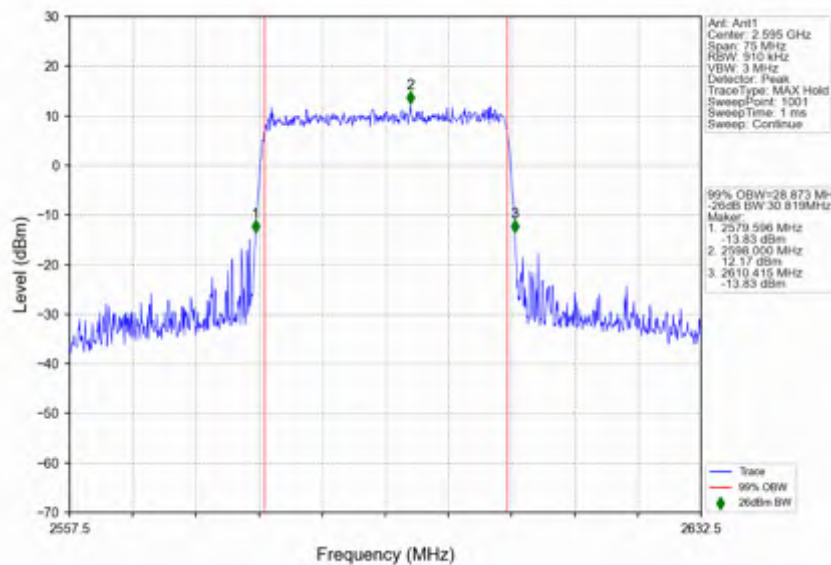


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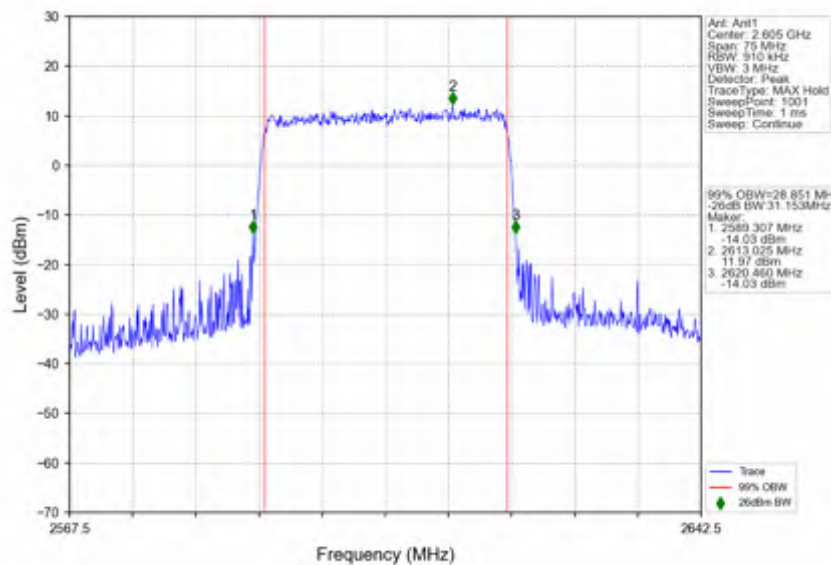
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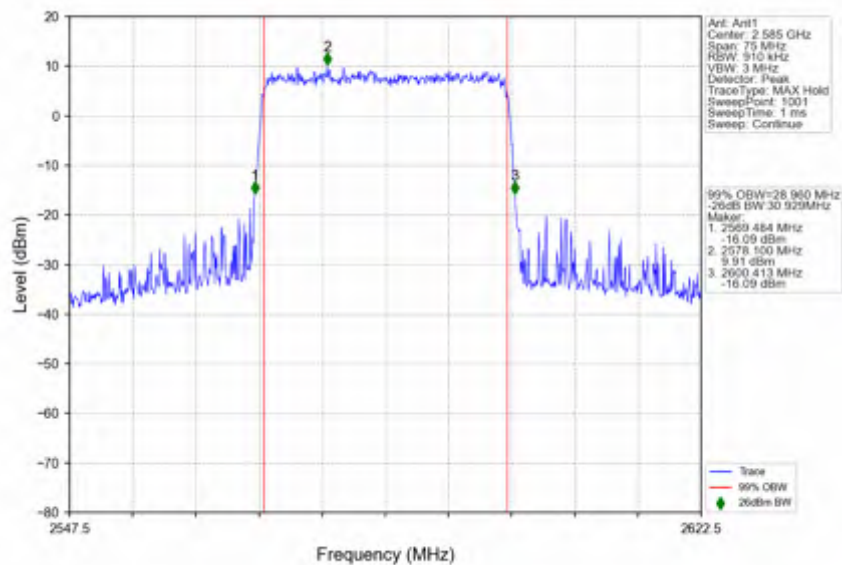


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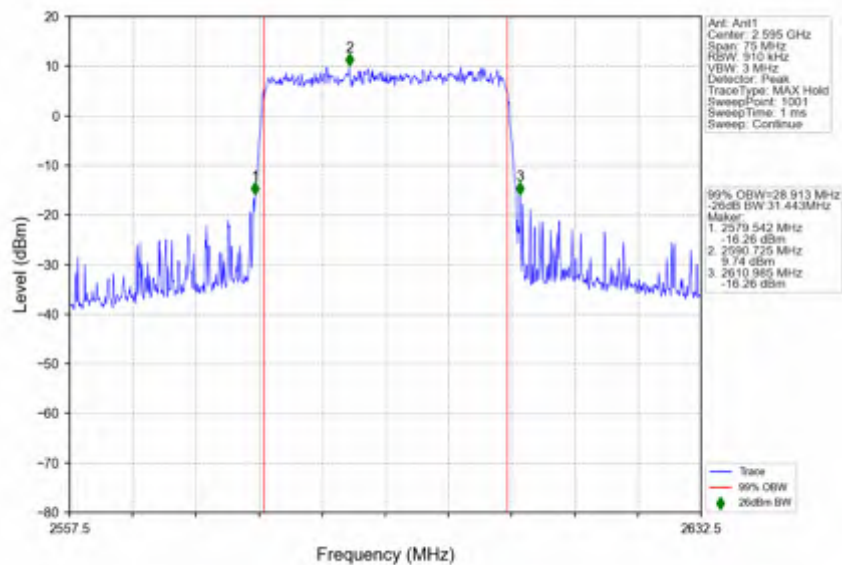
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n38_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_2585MHz_Outer_Full



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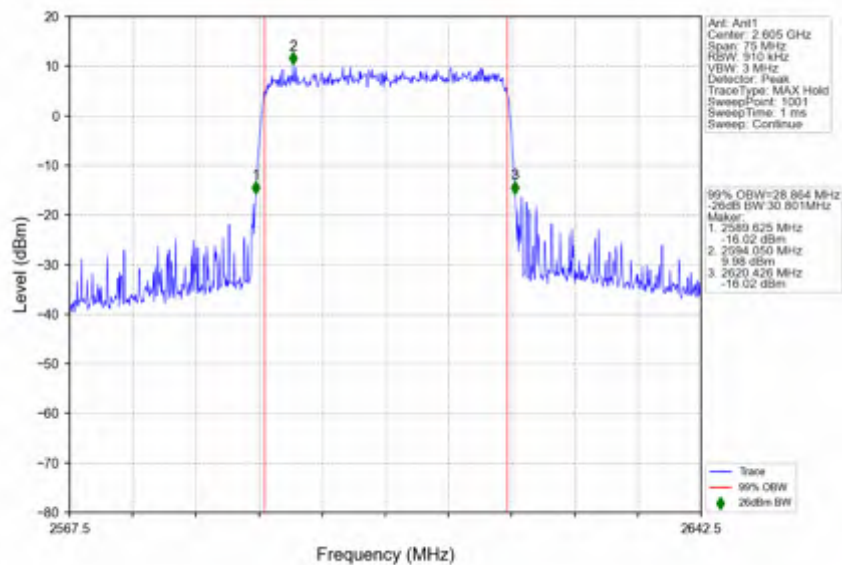


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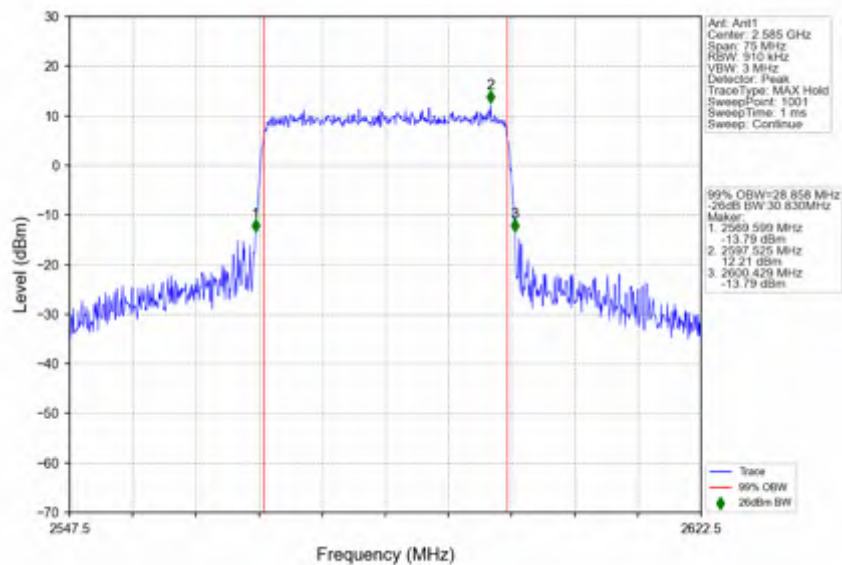
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n38_15kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_2605MHz_Outer_Full



n38_15kHz_SISO_NTV_30MHz_CP-OFDM_QPSK_2585MHz_Outer_Full

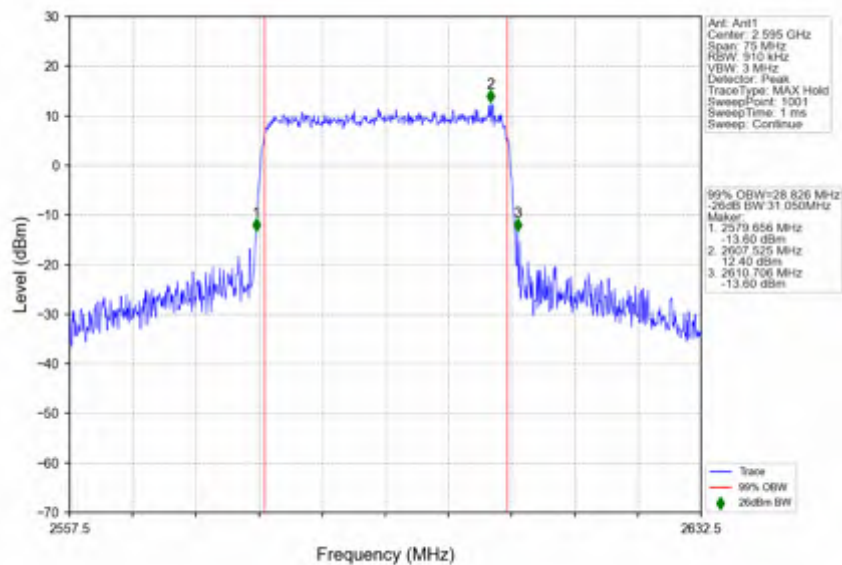


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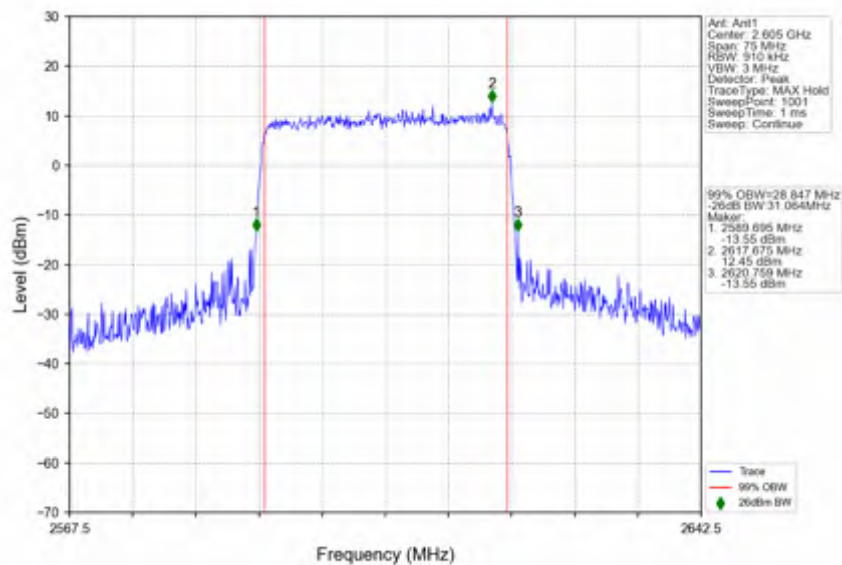
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n38_15kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_2595MHz_Outer_Full



n38_15kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_2605MHz_Outer_Full



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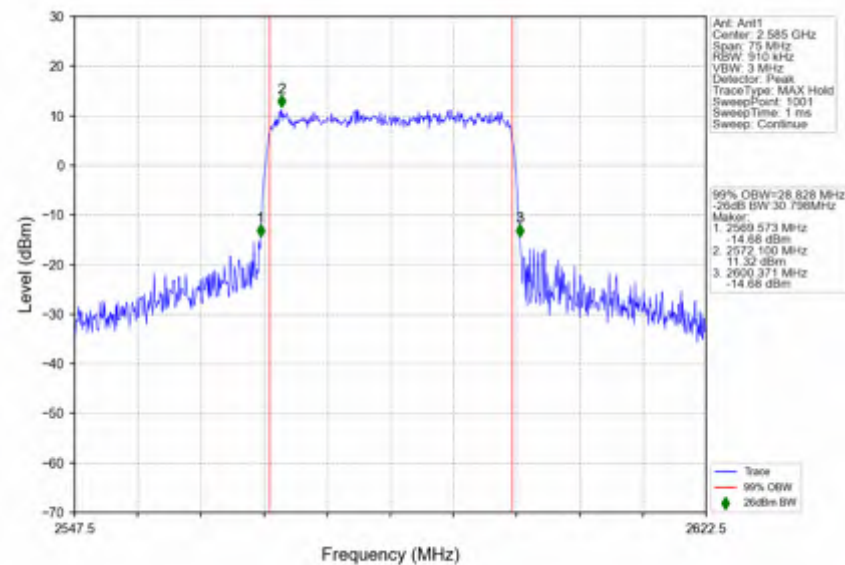
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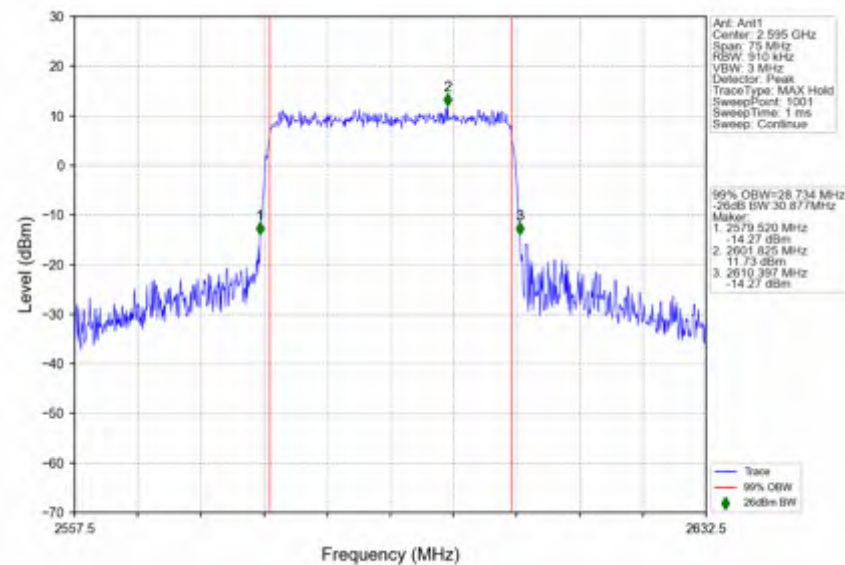
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n38_15kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_2585MHz_Outer_Full



n38_15kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_2595MHz_Outer_Full



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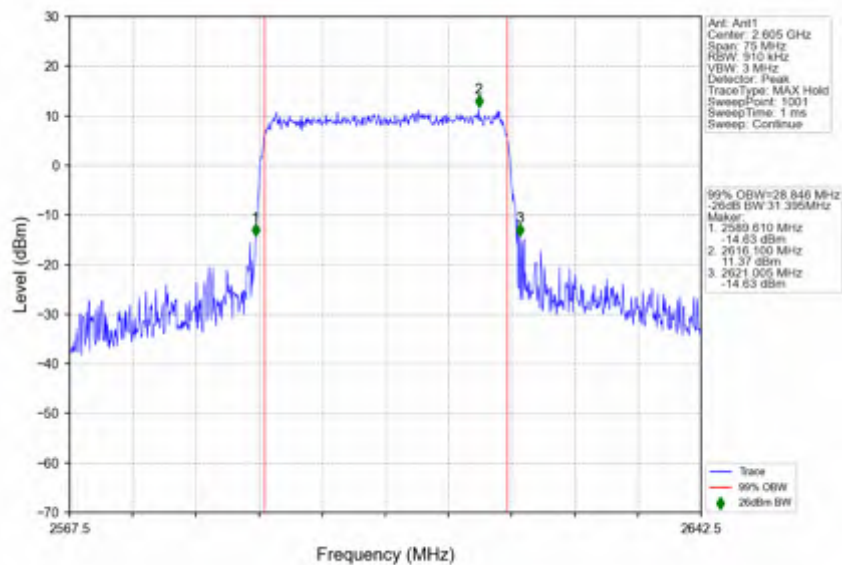
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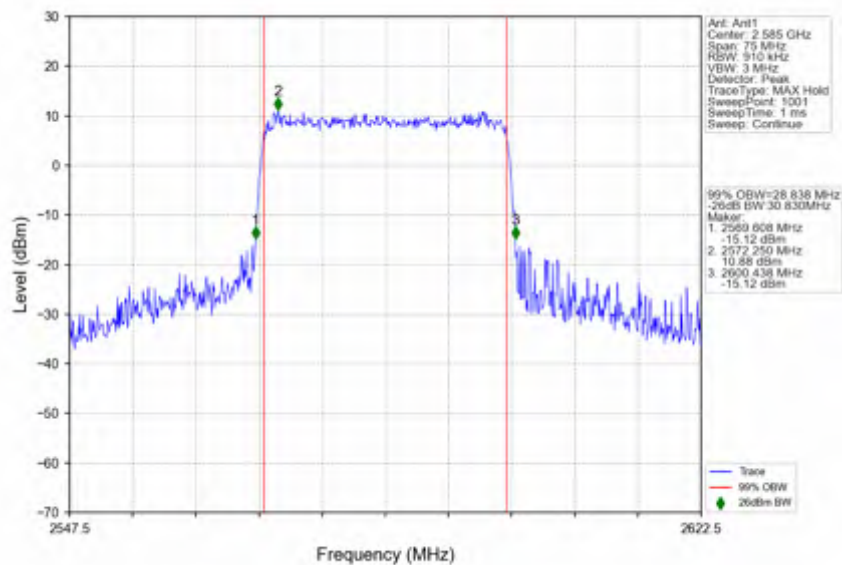
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n38 15kHz SISO NTN 30MHz CP-OFDM 16 QAM 2605MHz Outer Full



n38_15kHz_SISO_NTNV_30MHz_CP-OFDM_64_QAM_2585MHz_Outer_Full

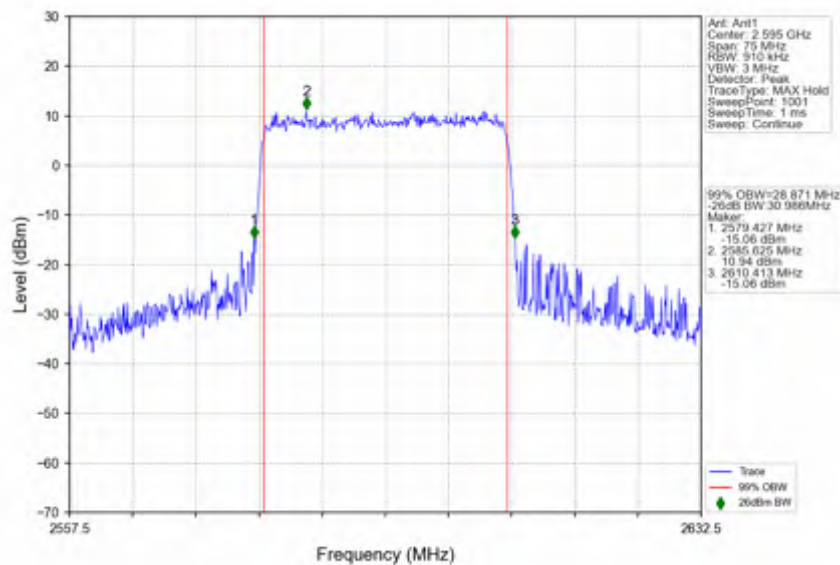


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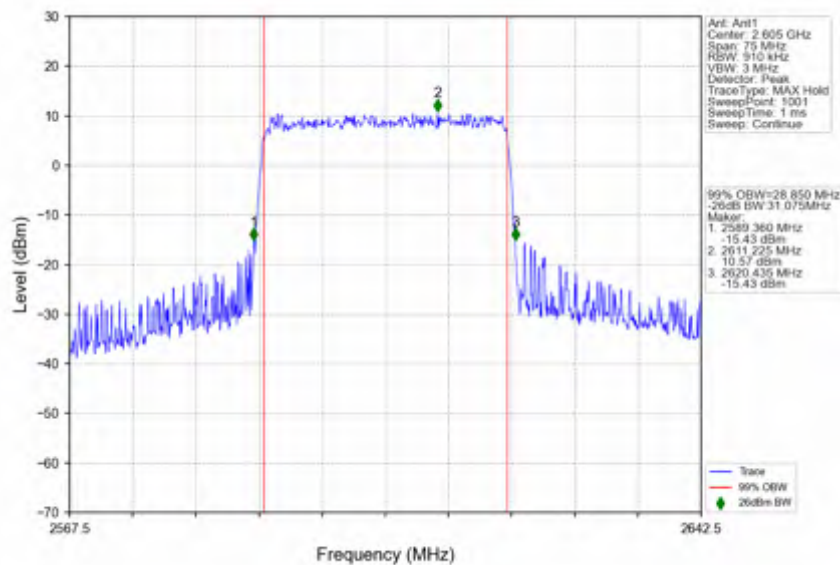
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n38_15kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_2595MHz_Outer_Full



n38_15kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_2605MHz_Outer_Full



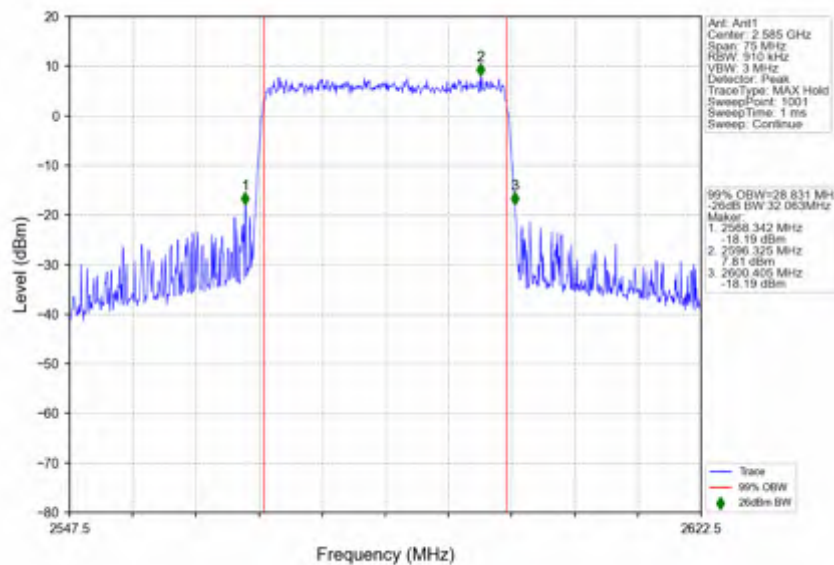
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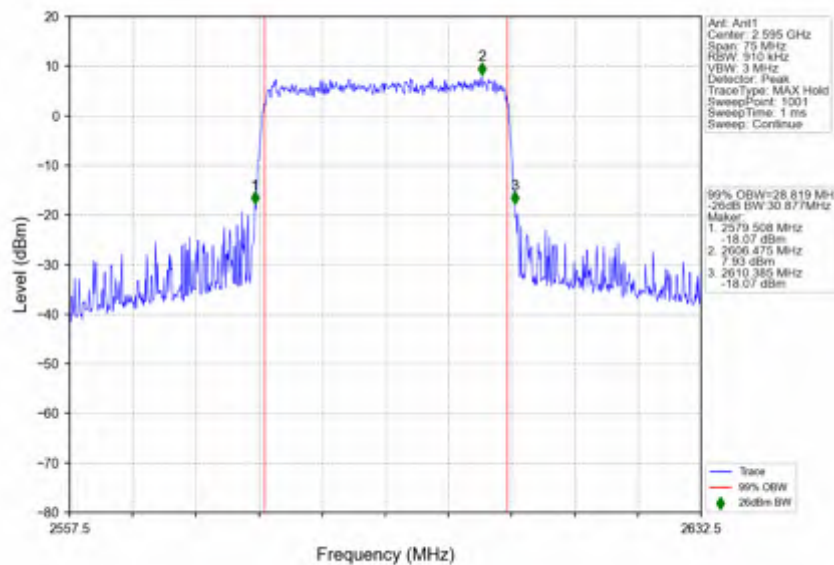
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n38 15kHz SISO NTNv 30MHz CP-OFDM 256 QAM 2585MHz Outer Full



n38	15kHz	SISO	NTNV	30MHz	CP-OFDM	256 QAM	2595MHz	Outer	Full
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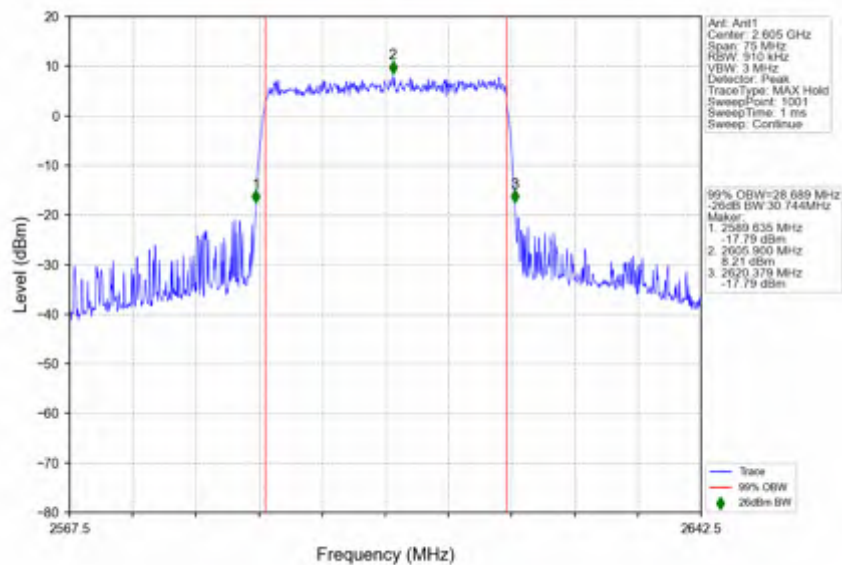


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n38_15kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_2605MHz_Outer_Full



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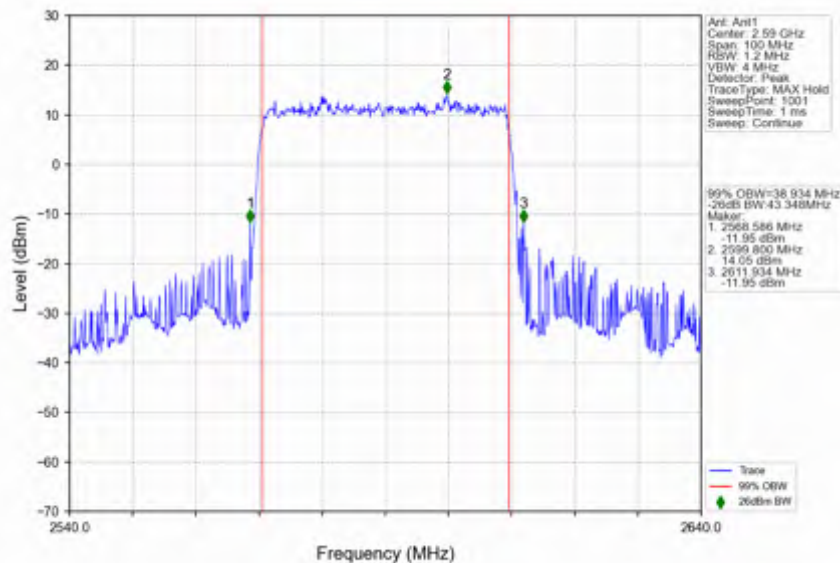
5.7 15k_SISO_40MHz_NTNV

5.7.1 Test Result

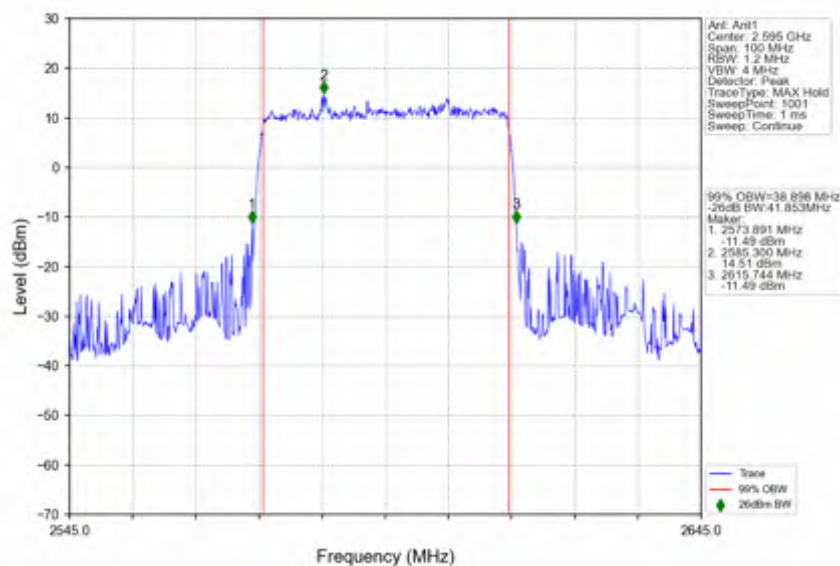
5G NR n38 SCS=15kHz SISO 40MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2590	Outer_Full	38.93	43.35	/	Pass
	2595	Outer_Full	38.90	41.85	/	Pass
	2600	Outer_Full	39.45	41.43	/	Pass
DFT-s-OFDM QPSK	2590	Outer_Full	38.85	43.15	/	Pass
	2595	Outer_Full	38.94	43.58	/	Pass
	2600	Outer_Full	38.82	41.64	/	Pass
DFT-s-OFDM 16 QAM	2590	Outer_Full	39.11	42.98	/	Pass
	2595	Outer_Full	38.91	42.20	/	Pass
	2600	Outer_Full	38.97	42.24	/	Pass
DFT-s-OFDM 64 QAM	2590	Outer_Full	38.97	42.04	/	Pass
	2595	Outer_Full	38.86	41.52	/	Pass
	2600	Outer_Full	38.97	42.00	/	Pass
DFT-s-OFDM 256 QAM	2590	Outer_Full	38.94	42.33	/	Pass
	2595	Outer_Full	38.91	41.56	/	Pass
	2600	Outer_Full	38.91	41.61	/	Pass
CP-OFDM QPSK	2590	Outer_Full	38.85	43.95	/	Pass
	2595	Outer_Full	38.89	41.49	/	Pass
	2600	Outer_Full	38.84	41.77	/	Pass
CP-OFDM 16 QAM	2590	Outer_Full	38.97	41.99	/	Pass
	2595	Outer_Full	38.92	43.79	/	Pass
	2600	Outer_Full	38.89	43.16	/	Pass
CP-OFDM 64 QAM	2590	Outer_Full	38.80	41.87	/	Pass
	2595	Outer_Full	38.85	41.81	/	Pass
	2600	Outer_Full	38.86	41.96	/	Pass
CP-OFDM 256 QAM	2590	Outer_Full	38.86	41.43	/	Pass
	2595	Outer_Full	38.79	42.05	/	Pass
	2600	Outer_Full	38.79	41.40	/	Pass

5.7.2 Test Graph

n38_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_PI/2_BPSK_2590MHz_Outer_Full



n38_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_PI/2_BPSK_2595MHz_Outer_Full



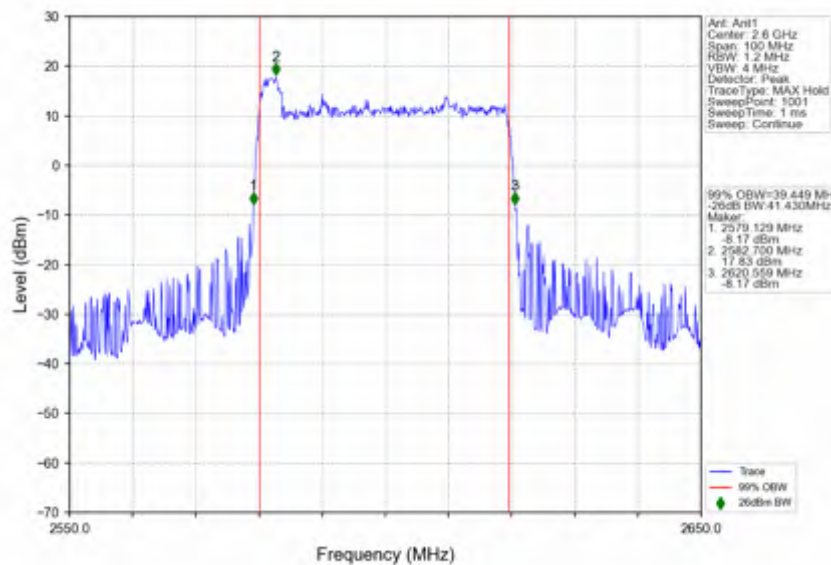
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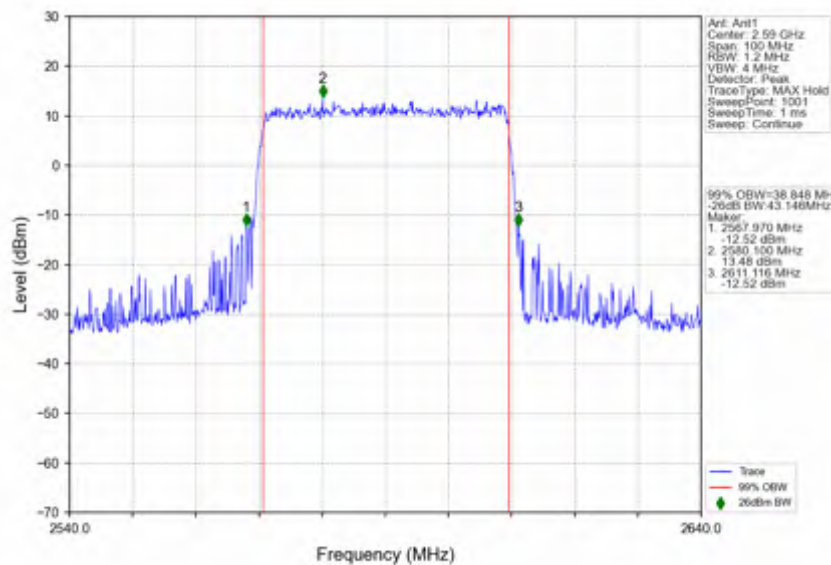
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n38_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_2590MHz_Outer_Full



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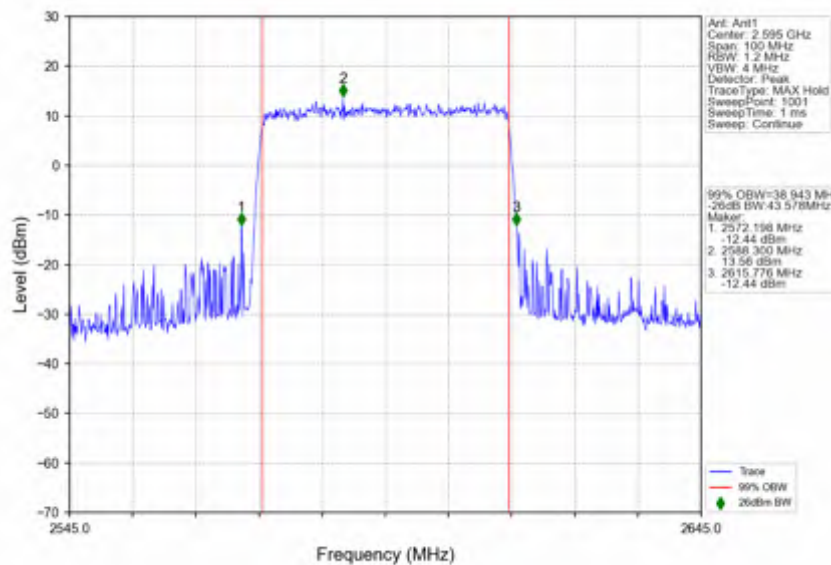
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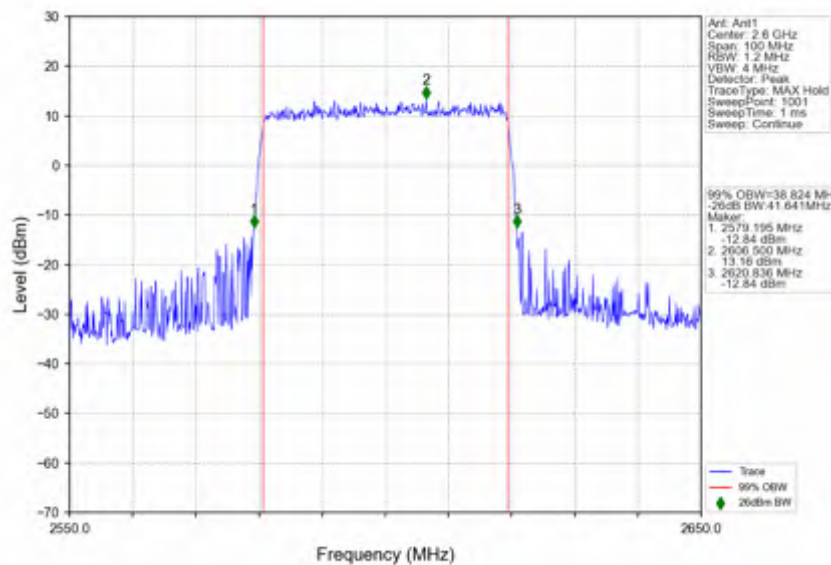
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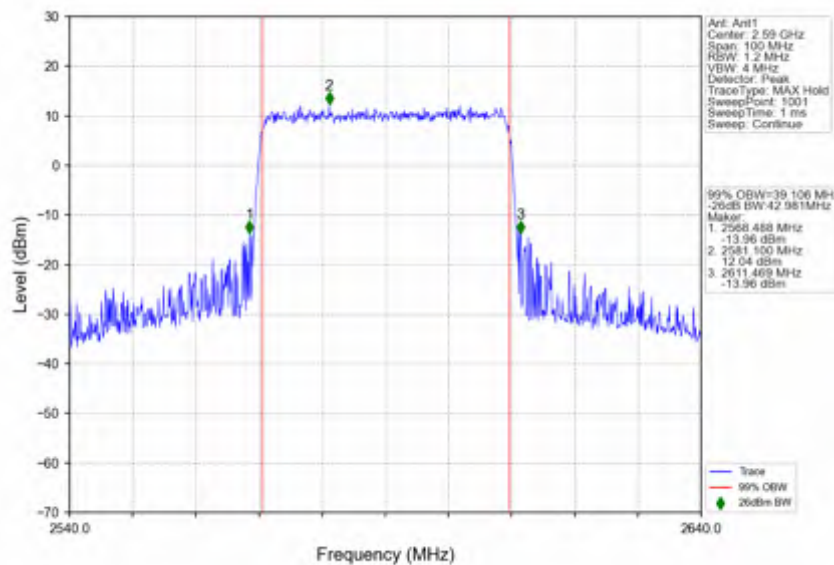
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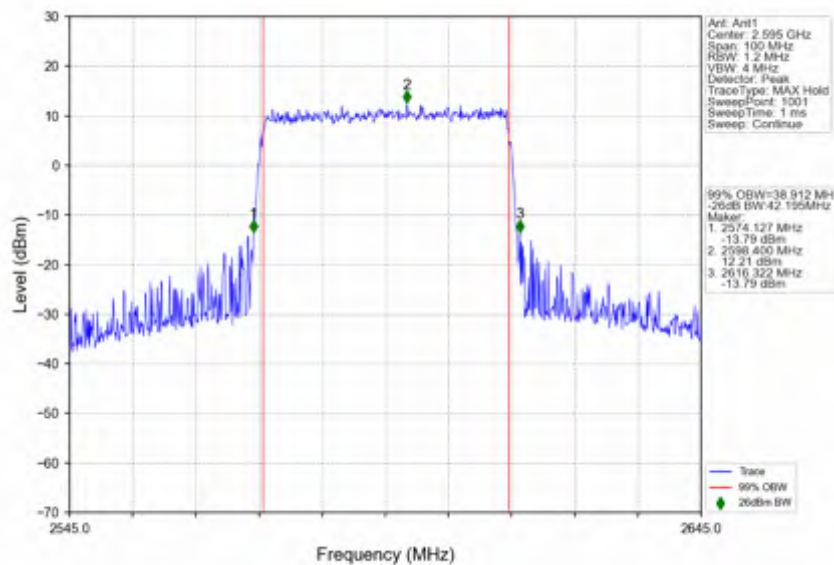
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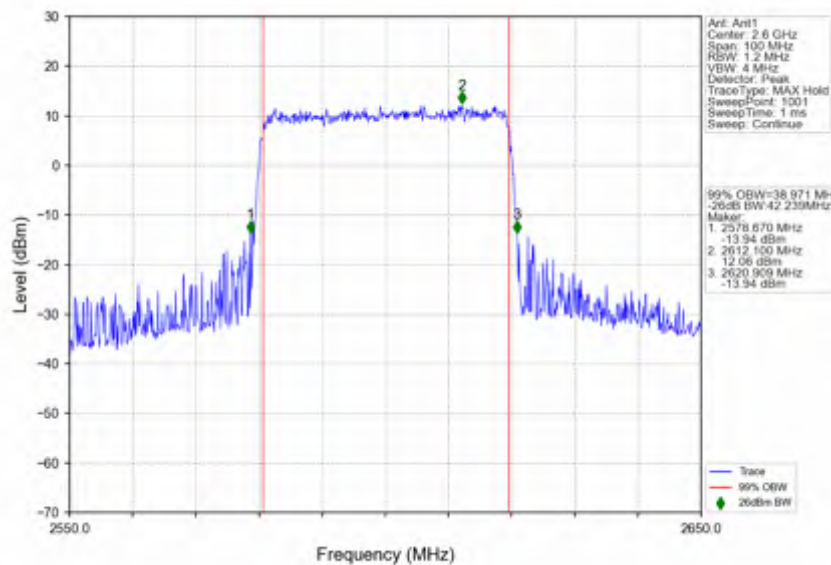


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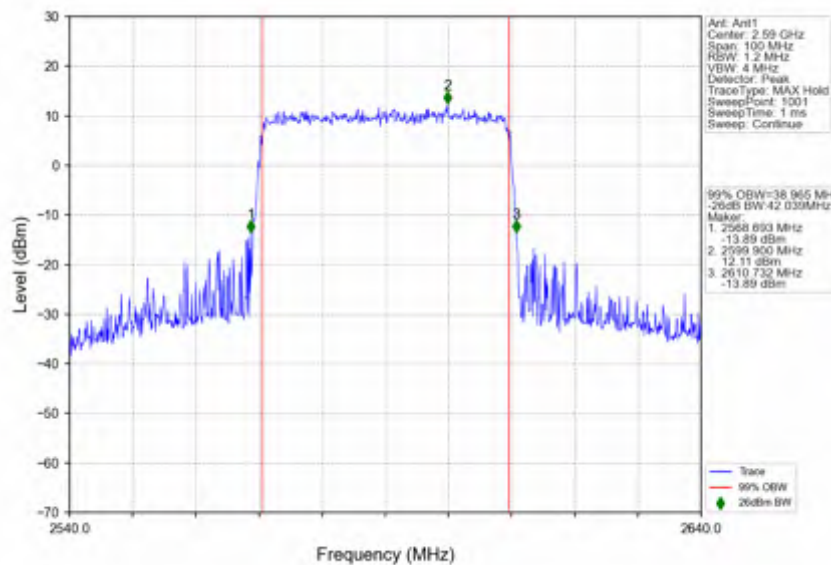
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n38 15kHz SISO NTV 40MHz DFT-s-OFDM 16 QAM 2600MHz Outer Full



n38 15kHz SISO NTNv 40MHz DFT-s-OFDM 64 QAM 2590MHz Outer Full

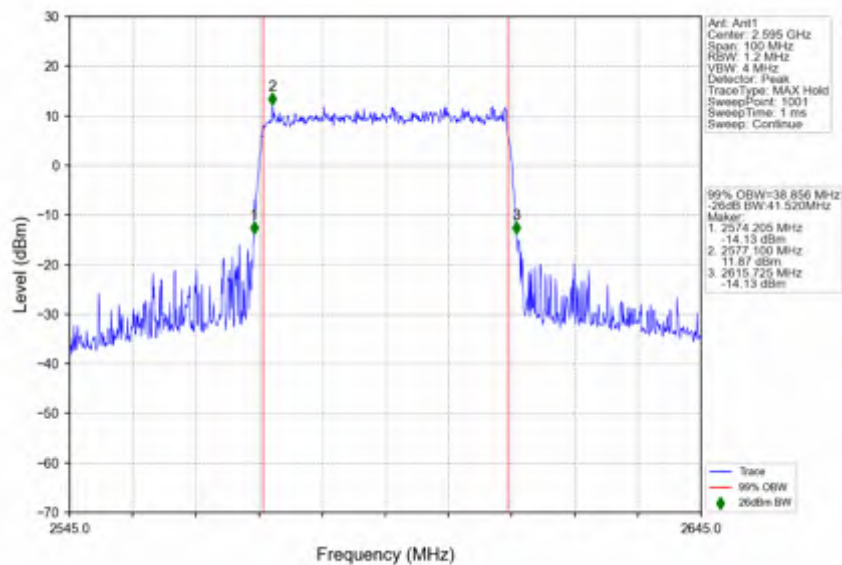


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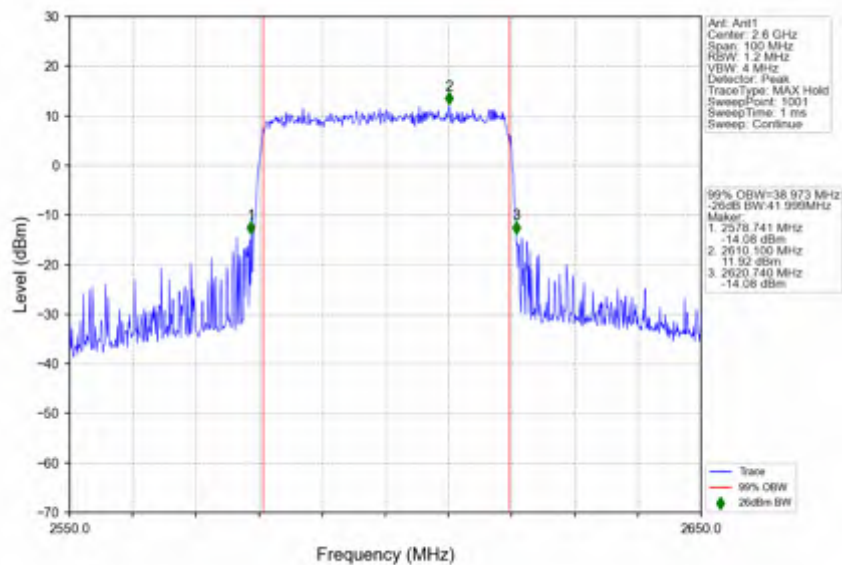
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n38_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_64_QAM_2595MHz_Outer_Full



n38_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_64_QAM_2600MHz_Outer_Full



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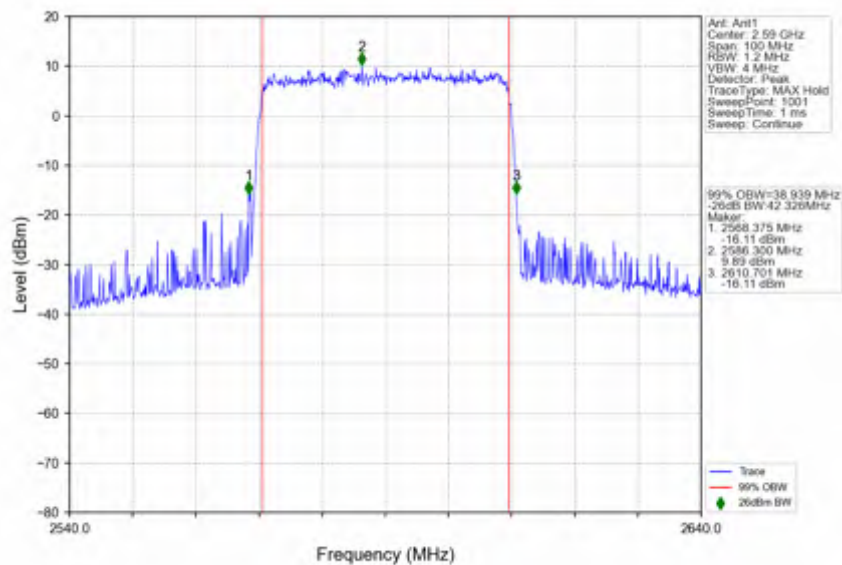
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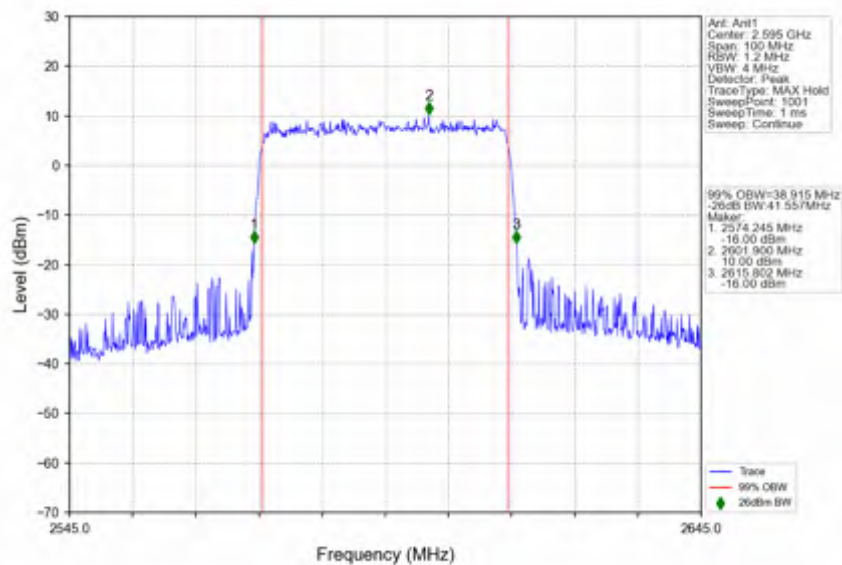
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0512-51257350883 0512-51257370910 sgs.china@sgs.com

n38	15kHz	SISO	NTNV	40MHz	DFT-s-OFDM	256 QAM	2590MHz	Outer	Full
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n38	15kHz	SISO	NTNV	40MHz	DFT-s-OFDM	256 QAM	2595MHz	Outer	Full
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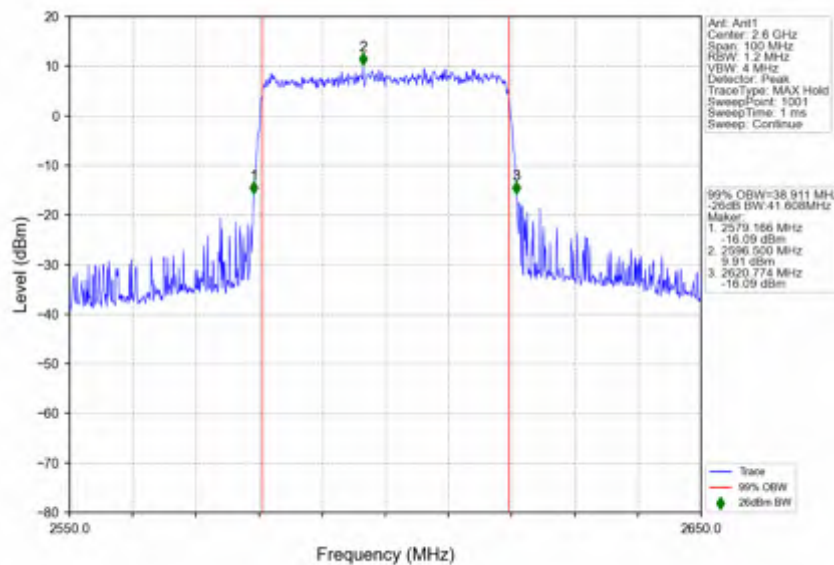


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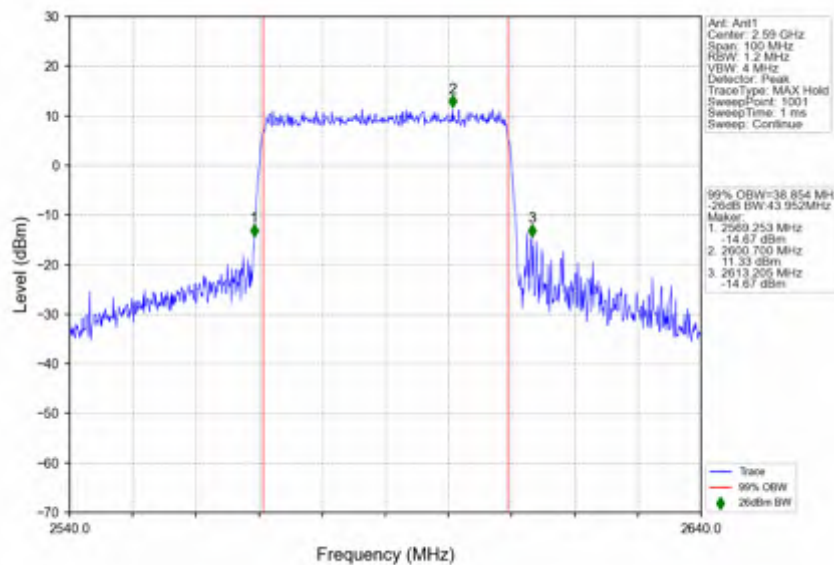
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n38_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM_2600MHz_Outer_Full



n38_15kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_2590MHz_Outer_Full



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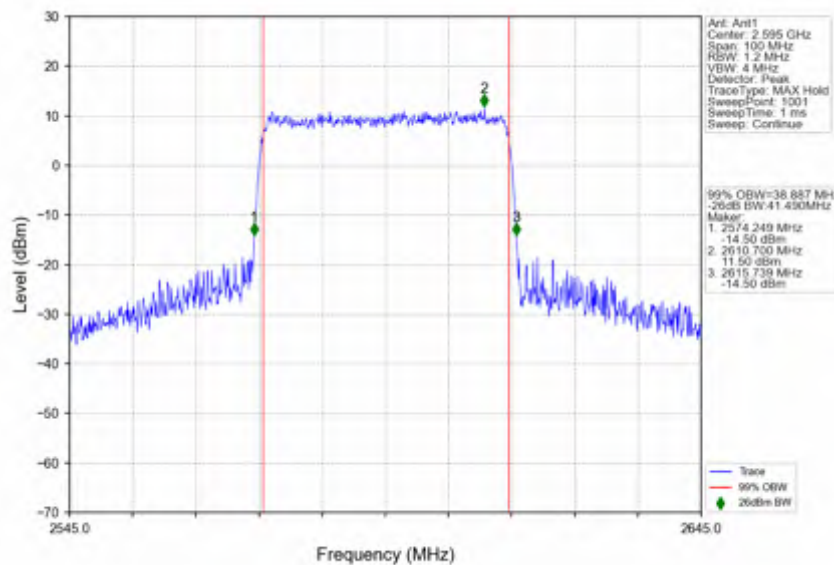
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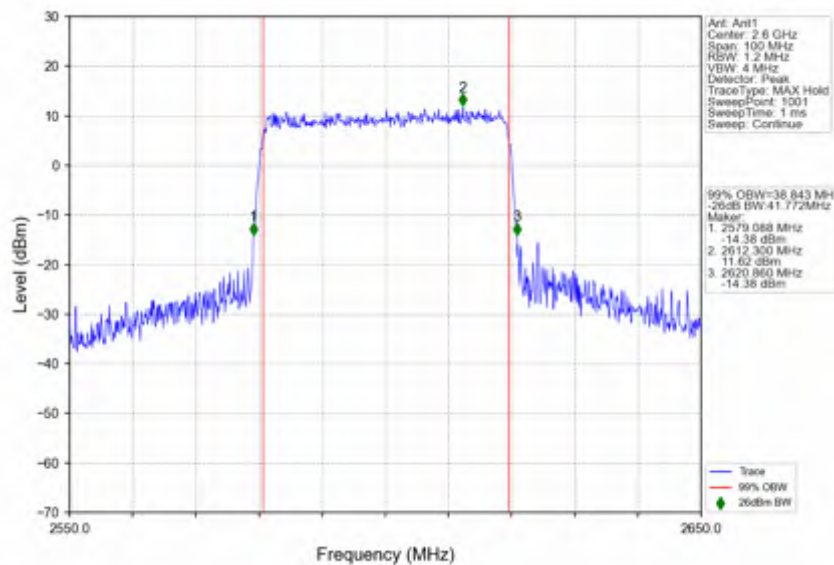
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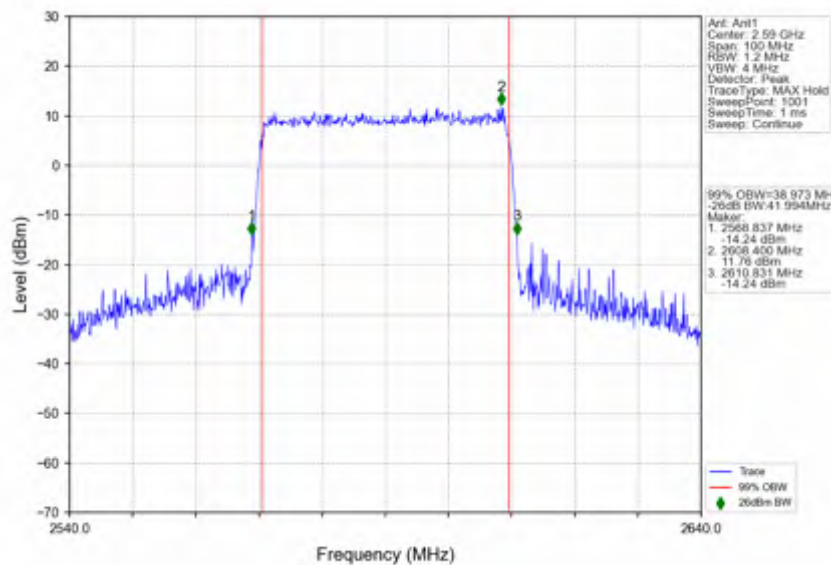


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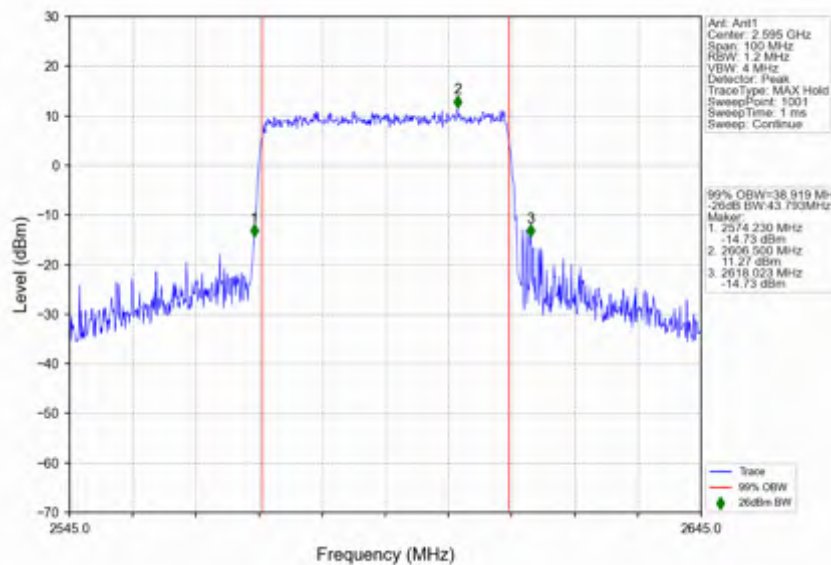
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n38_15kHz_SISO_NTNV_40MHz_CP-OFDM_16_QAM_2590MHz_Outer_Full



n38_15kHz_SISO_NTNV_40MHz_CP-OFDM_16_QAM_2595MHz_Outer_Full



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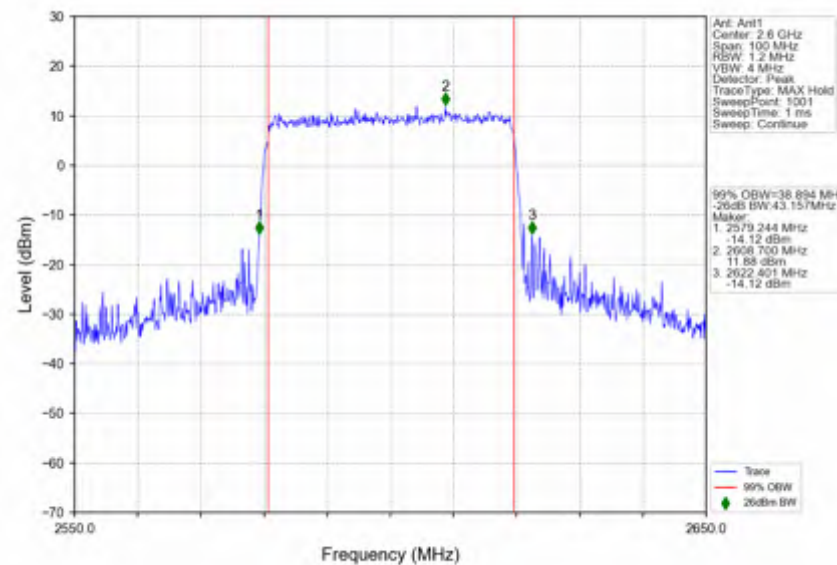
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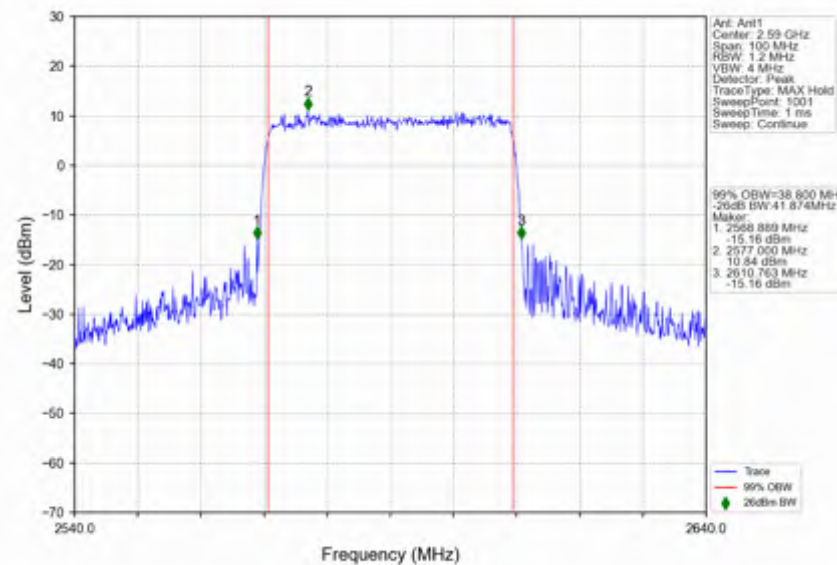
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n38_15kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_2600MHz_Outer_Full



n38_15kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_2590MHz_Outer_Full



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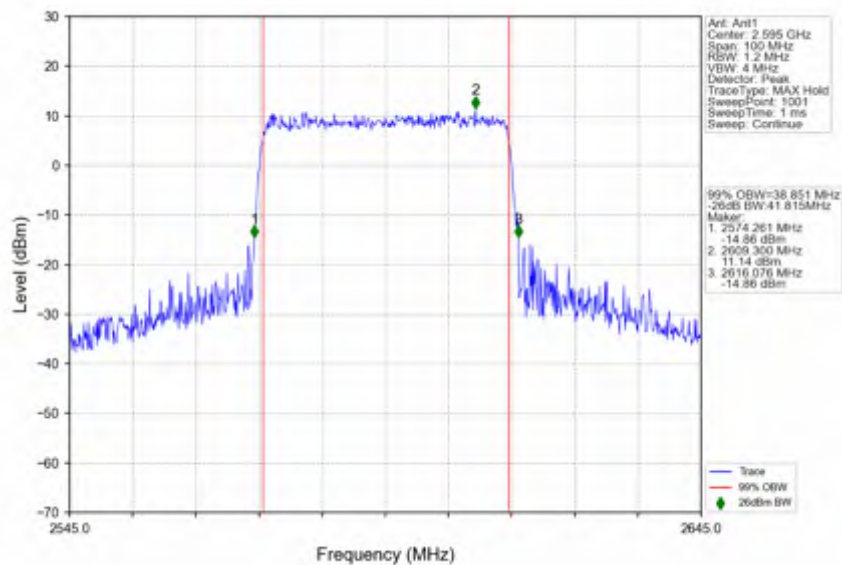
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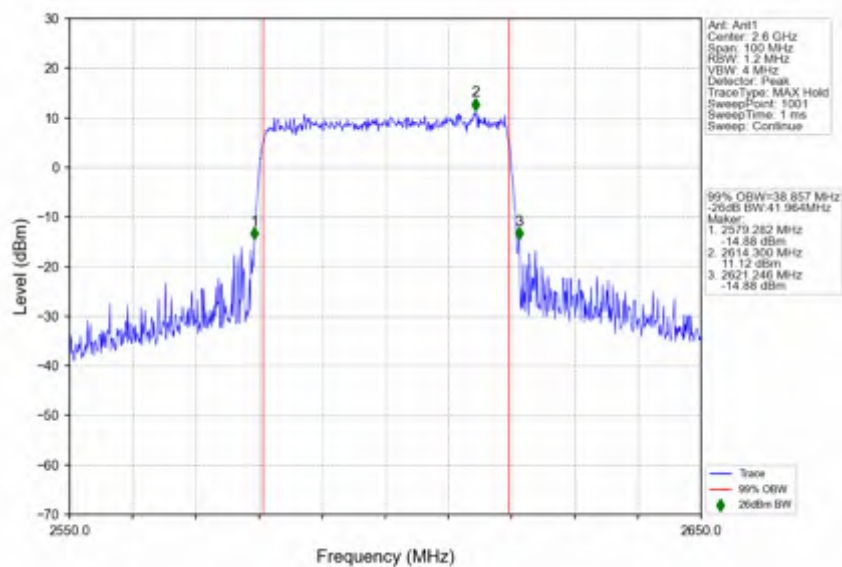
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n38 15kHz SISO NTN 40MHz CP-OFDM 64 QAM 2600MHz Outer Full

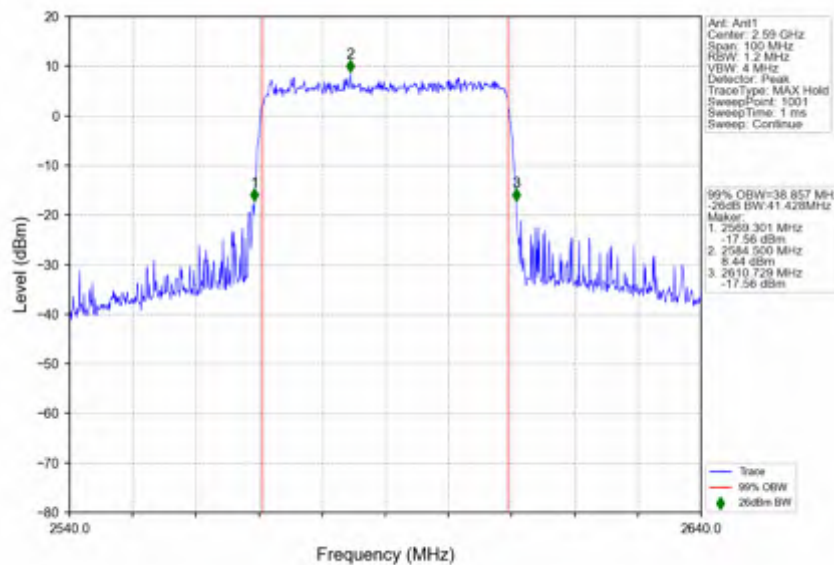


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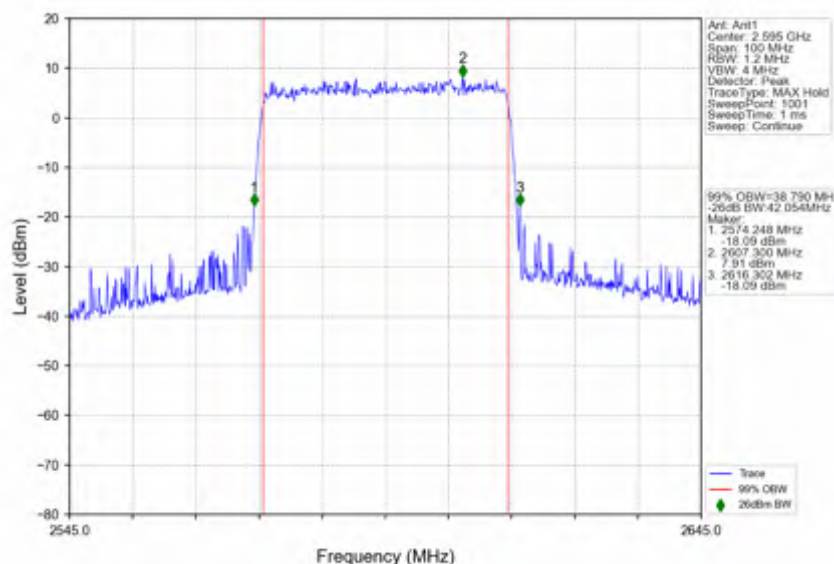
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n38_15kHz_SISO_NTNV_40MHz_CP-OFDM_256_QAM_2590MHz_Outer_Full



n38	15kHz	SISO	NTNV	40MHz	CP-OFDM	256 QAM	2595MHz	Outer	Full
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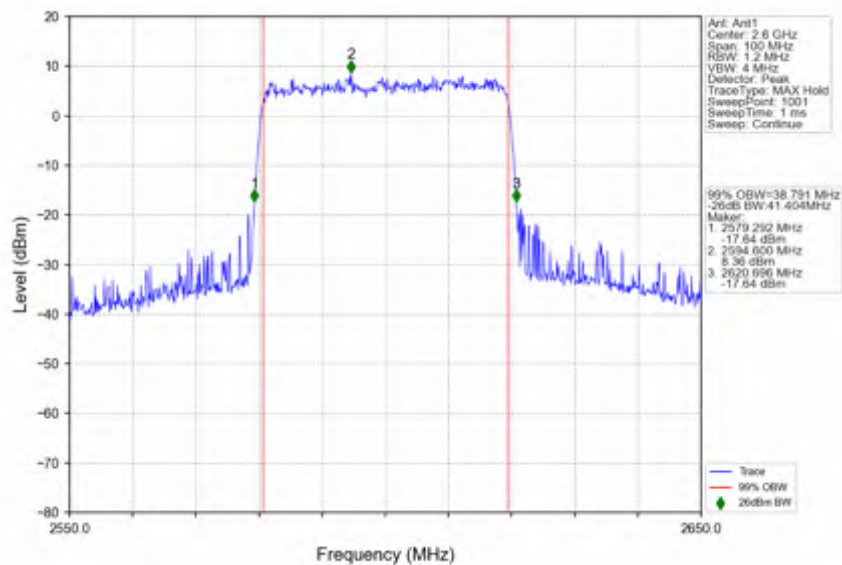


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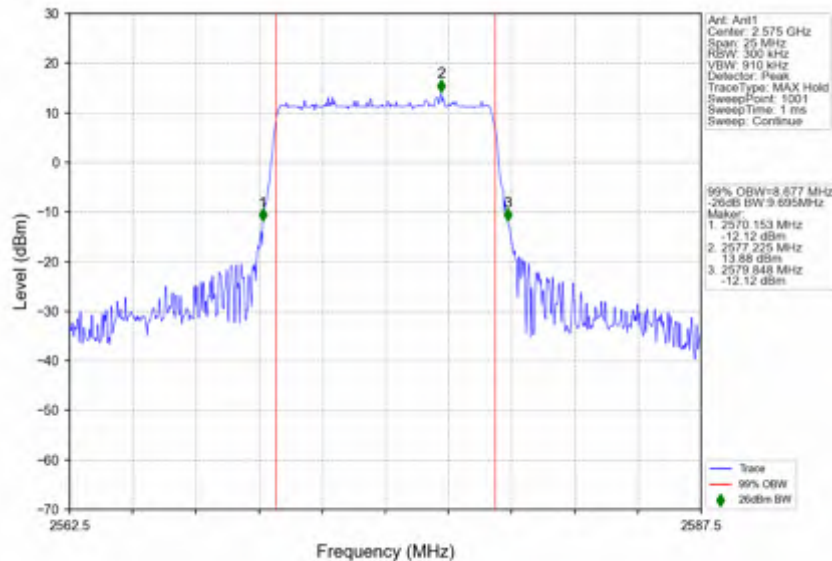
5.8 30k_SISO_10MHz_NTNV

5.8.1 Test Result

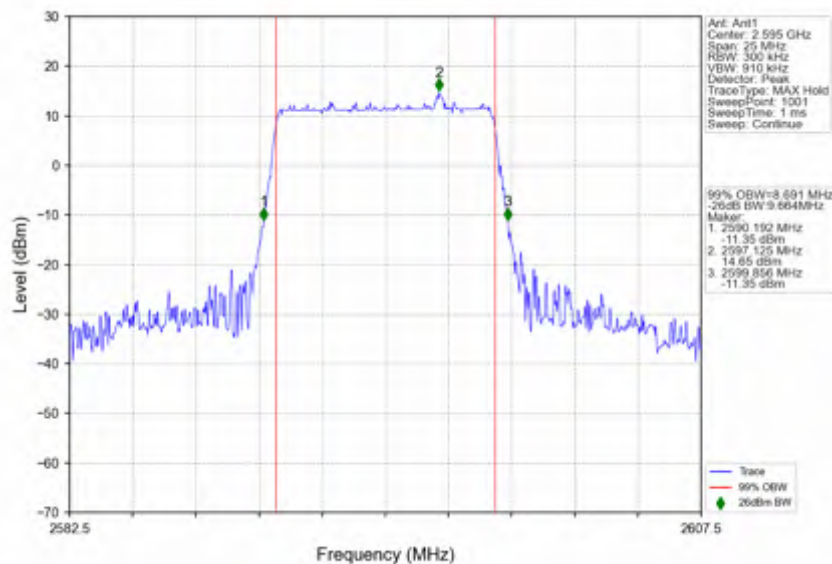
5G NR n38 SCS=30kHz SISO 10MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2575	Outer_Full	8.68	9.70	/	Pass
	2595	Outer_Full	8.69	9.66	/	Pass
	2615	Outer_Full	8.70	9.82	/	Pass
DFT-s-OFDM QPSK	2575	Outer_Full	8.74	9.69	/	Pass
	2595	Outer_Full	8.75	9.79	/	Pass
	2615	Outer_Full	8.70	9.76	/	Pass
DFT-s-OFDM 16 QAM	2575	Outer_Full	8.66	9.73	/	Pass
	2595	Outer_Full	8.68	9.68	/	Pass
	2615	Outer_Full	8.68	9.77	/	Pass
DFT-s-OFDM 64 QAM	2575	Outer_Full	8.70	10.09	/	Pass
	2595	Outer_Full	8.73	9.98	/	Pass
	2615	Outer_Full	8.71	9.88	/	Pass
DFT-s-OFDM 256 QAM	2575	Outer_Full	8.74	10.51	/	Pass
	2595	Outer_Full	8.72	10.31	/	Pass
	2615	Outer_Full	8.73	9.79	/	Pass
CP-OFDM QPSK	2575	Outer_Full	8.69	9.63	/	Pass
	2595	Outer_Full	8.69	9.60	/	Pass
	2615	Outer_Full	8.67	9.72	/	Pass
CP-OFDM 16 QAM	2575	Outer_Full	8.70	9.61	/	Pass
	2595	Outer_Full	8.68	9.66	/	Pass
	2615	Outer_Full	8.74	9.75	/	Pass
CP-OFDM 64 QAM	2575	Outer_Full	8.71	9.68	/	Pass
	2595	Outer_Full	8.70	9.74	/	Pass
	2615	Outer_Full	8.70	10.06	/	Pass
CP-OFDM 256 QAM	2575	Outer_Full	8.71	9.71	/	Pass
	2595	Outer_Full	8.72	9.89	/	Pass
	2615	Outer_Full	8.66	9.65	/	Pass

5.8.2 Test Graph

n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_2575MHz_Outer_Full



n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_PI/2_BPSK_2595MHz_Outer_Full



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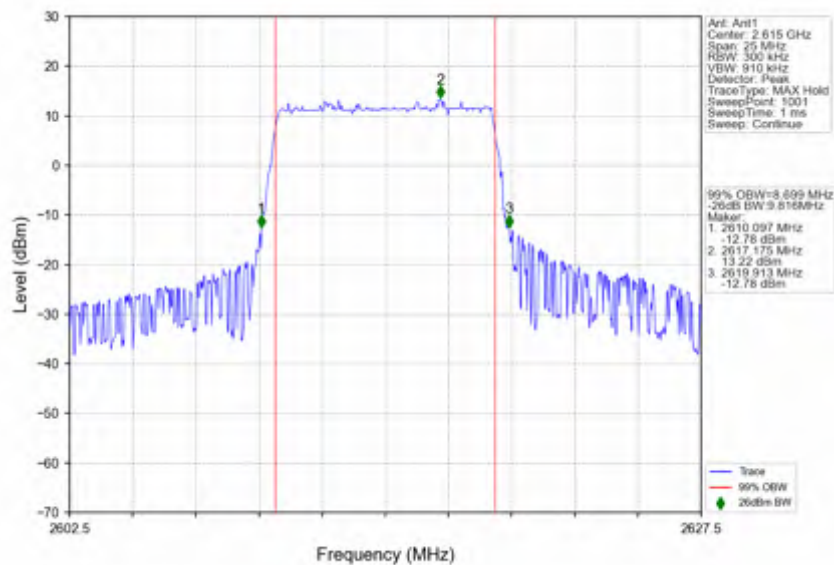
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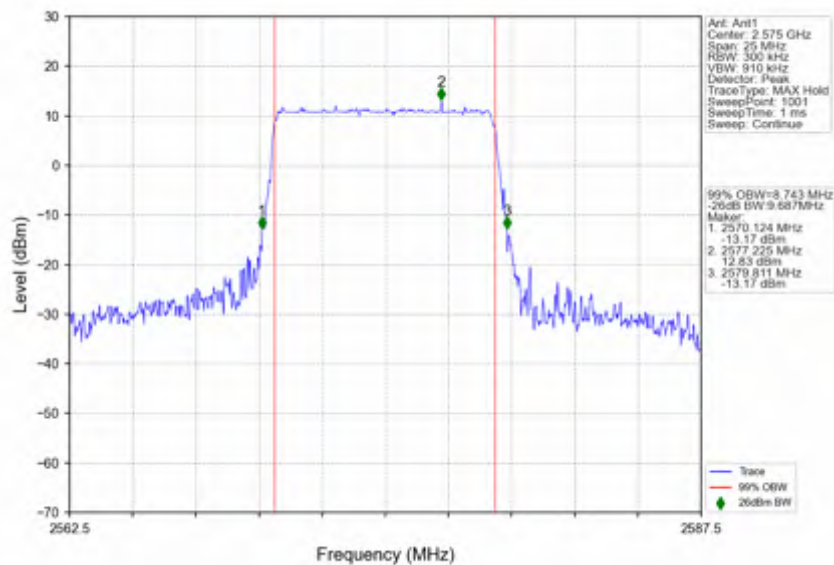
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n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2615MHz_Outer_Full



n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2575MHz_Outer_Full



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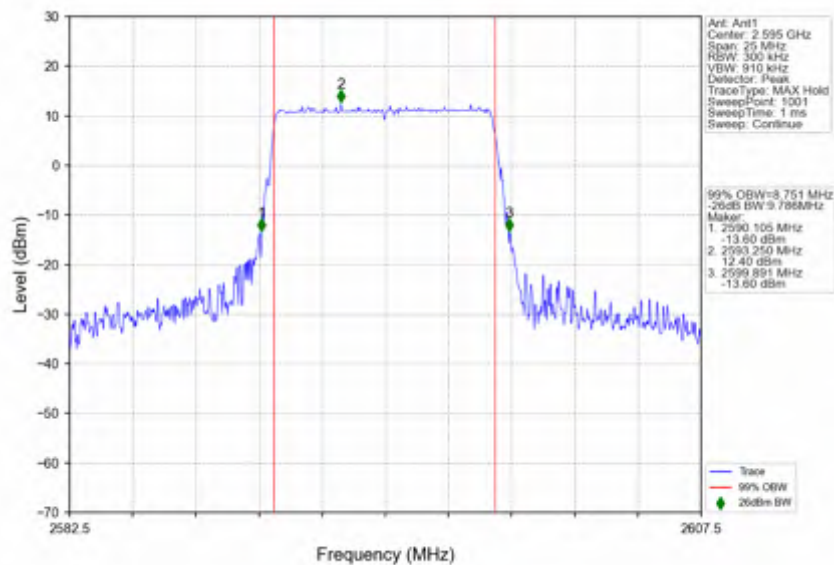
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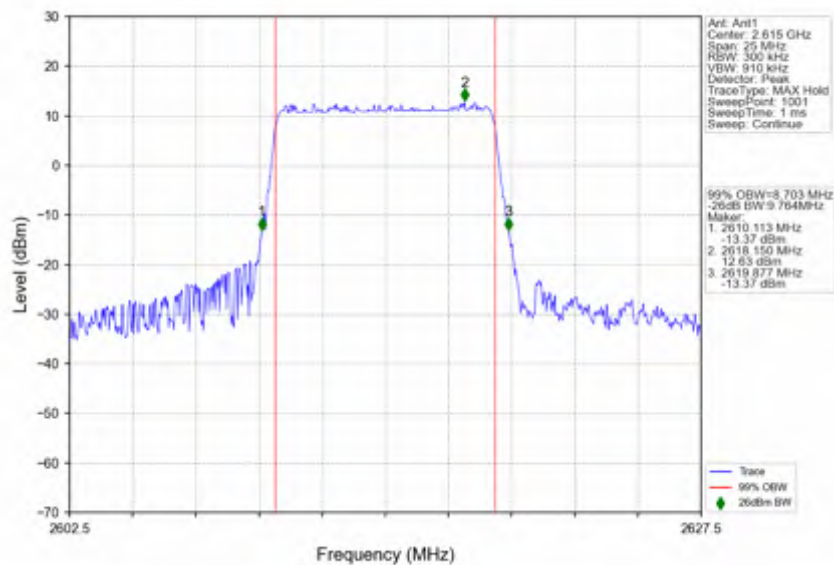
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n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2595MHz_Outer_Full



n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2615MHz_Outer_Full



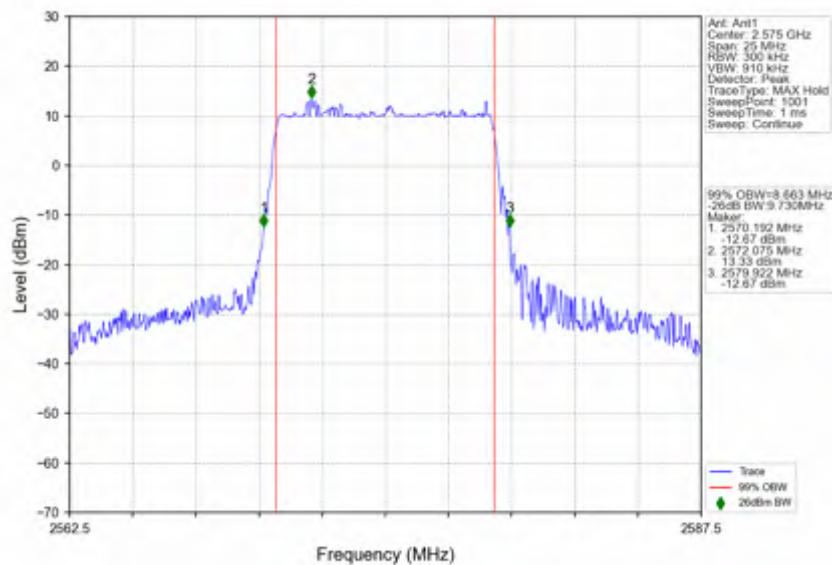
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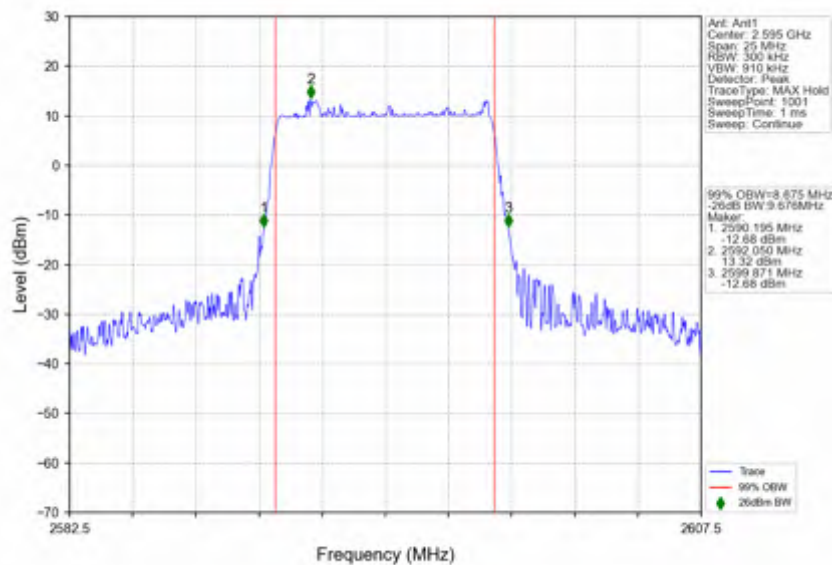
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n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_2575MHz_Outer_Full



n38_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_2595MHz_Outer_Full



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