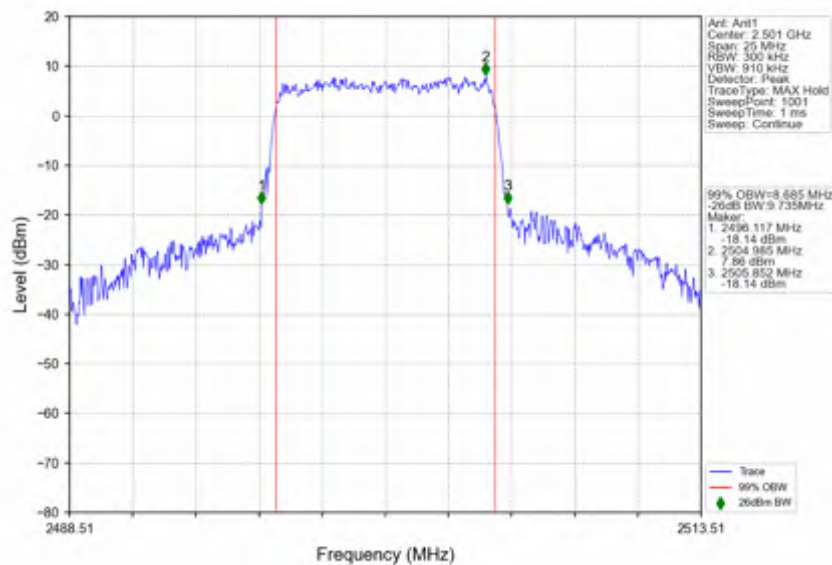
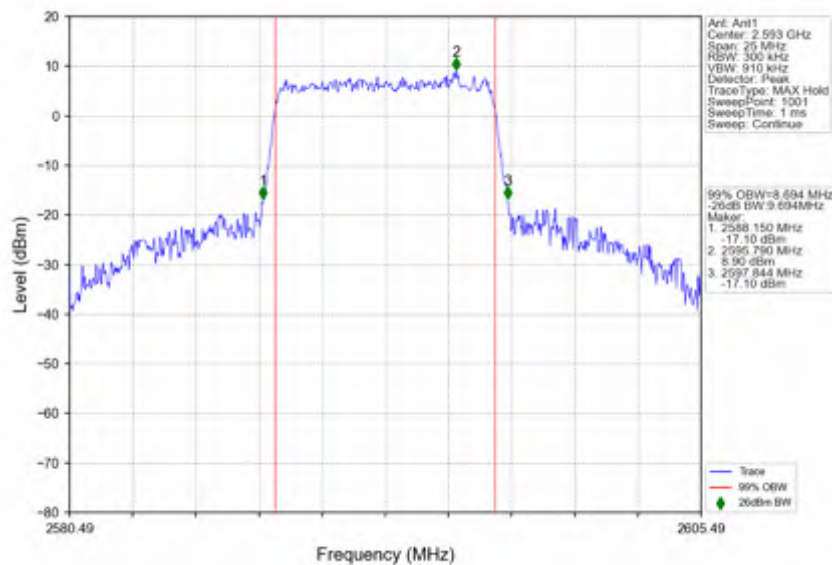


n41_30kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_2501.01MHz_Outer_Full



n41_30kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_2592.99MHz_Outer_Full



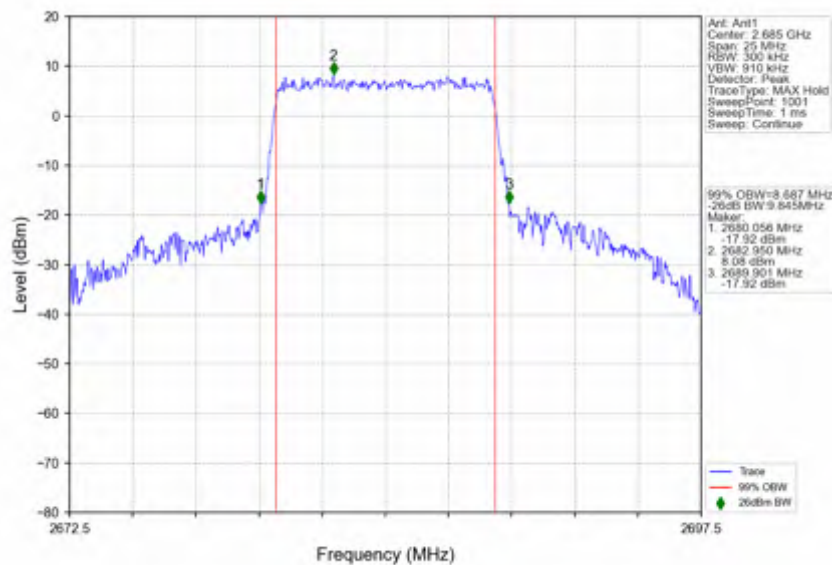
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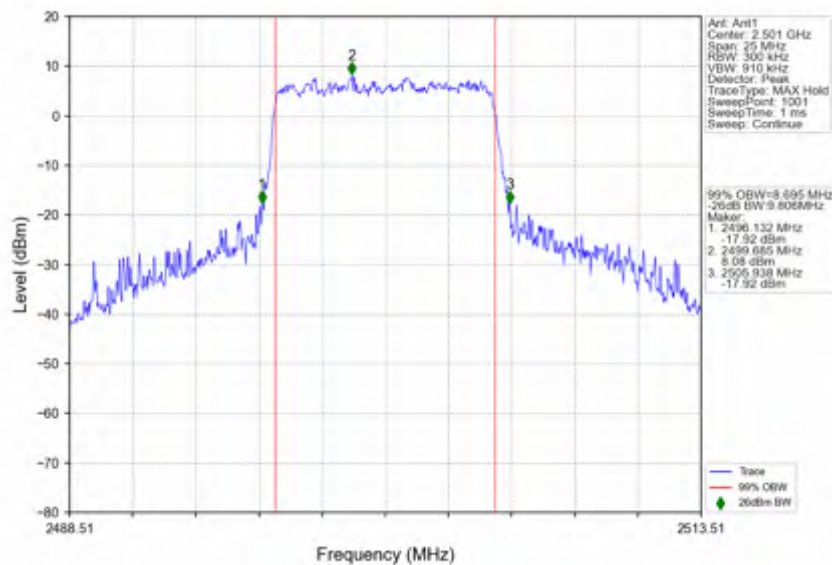
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n41_30kHz_SISO_NTNV_10MHz_CP-OFDM_16 QAM_2685MHz_Outer_Full



n41_30kHz_SISO_NTNV_10MHz_CP-OFDM_64 QAM_2501.01MHz_Outer_Full



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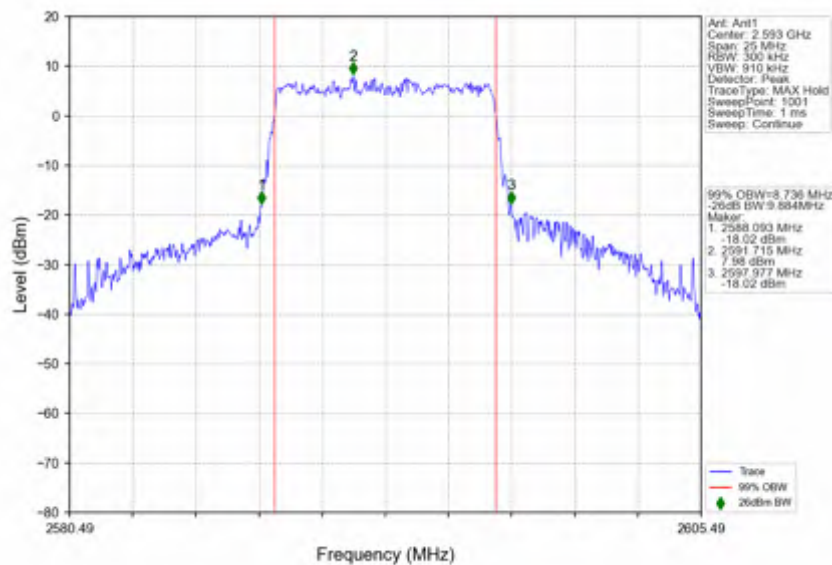
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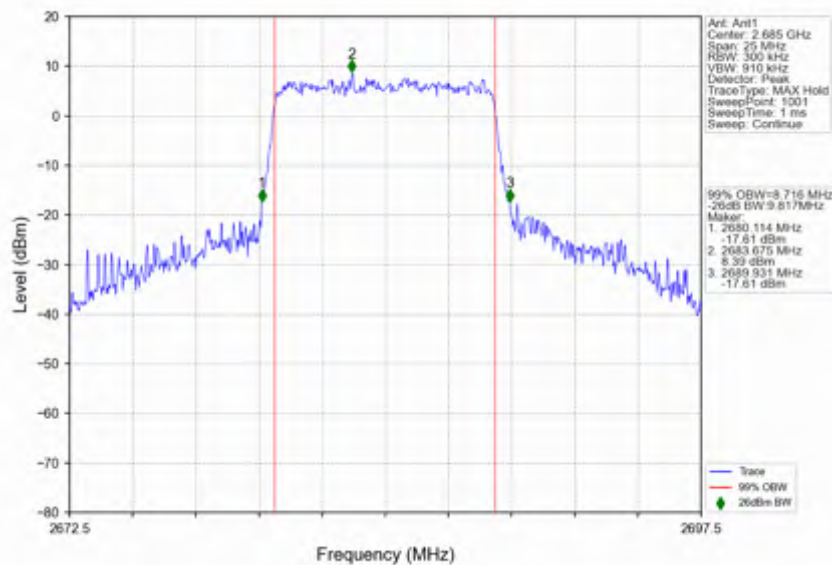
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n41_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_2685MHz_Outer_Full



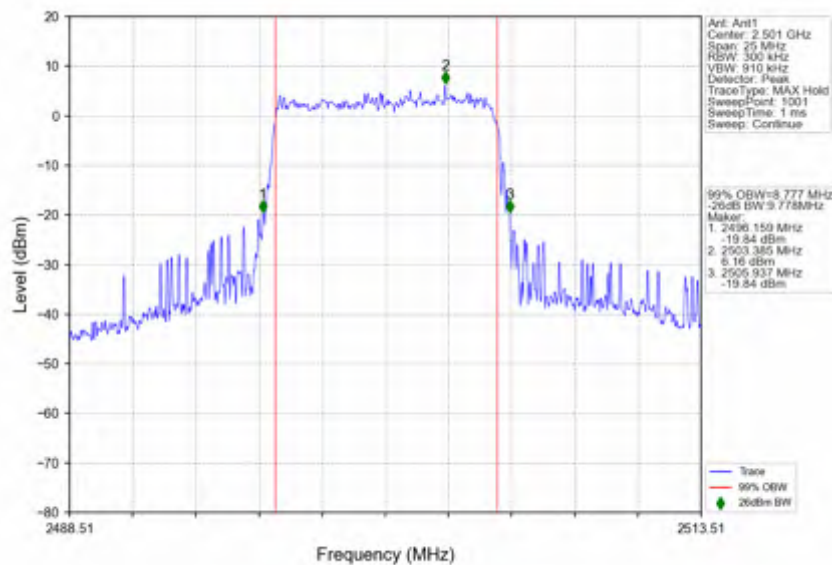
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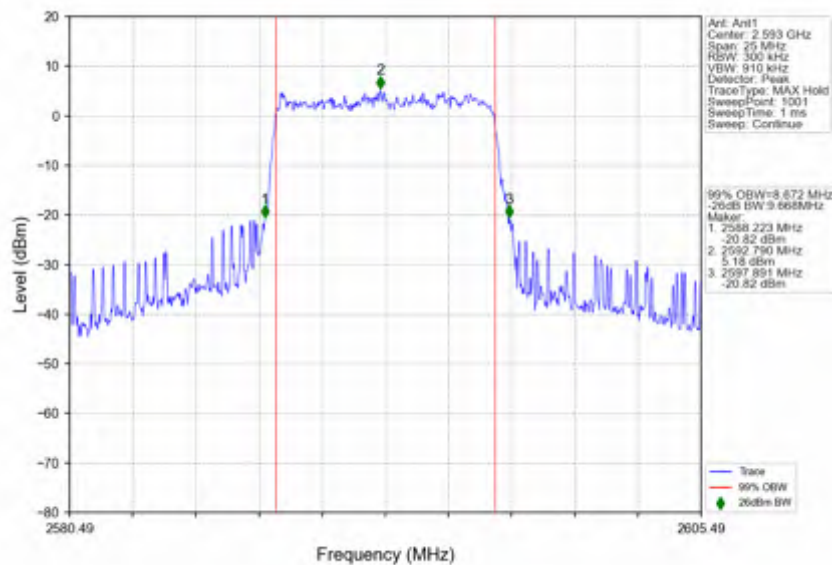
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n41_30kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_2501.01MHz_Outer_Full



n41_30kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_2592.99MHz_Outer_Full



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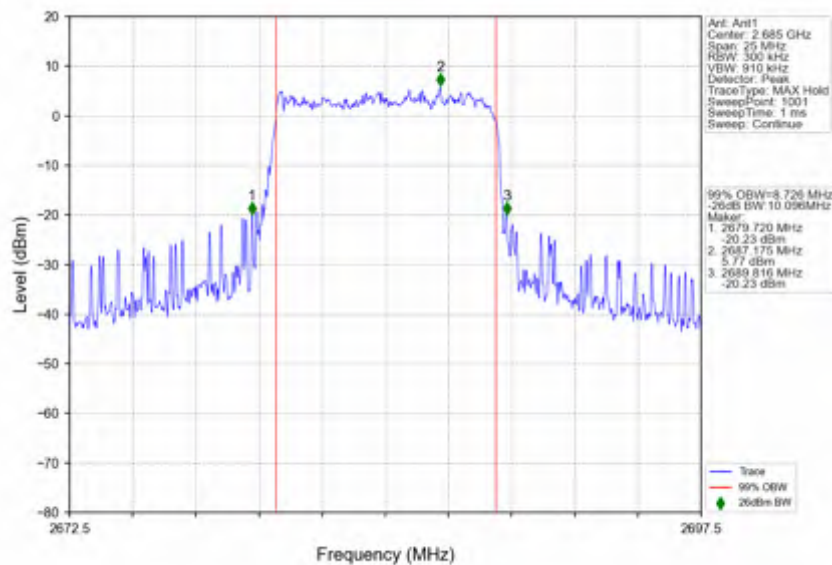
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n41_30kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_2685MHz_Outer_Full



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6.8 30k_SISO_15MHz_NTNV

6.8.1 Test Result

5G NR n41 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	2503.5	Outer_Full	13.06	14.58	/	Pass
	2592.99	Outer_Full	13.09	14.48	/	Pass
	2682.48	Outer_Full	13.11	14.67	/	Pass
DFT-s-OFDM QPSK	2503.5	Outer_Full	13.06	14.95	/	Pass
	2592.99	Outer_Full	13.09	15.19	/	Pass
	2682.48	Outer_Full	13.07	14.75	/	Pass
DFT-s-OFDM 16 QAM	2503.5	Outer_Full	13.03	14.47	/	Pass
	2592.99	Outer_Full	13.04	14.47	/	Pass
	2682.48	Outer_Full	13.07	14.53	/	Pass
DFT-s-OFDM 64 QAM	2503.5	Outer_Full	13.05	14.43	/	Pass
	2592.99	Outer_Full	13.06	14.67	/	Pass
	2682.48	Outer_Full	13.08	14.46	/	Pass
DFT-s-OFDM 256 QAM	2503.5	Outer_Full	13.07	14.53	/	Pass
	2592.99	Outer_Full	13.10	14.53	/	Pass
	2682.48	Outer_Full	13.06	14.59	/	Pass
CP-OFDM QPSK	2503.5	Outer_Full	13.74	15.07	/	Pass
	2592.99	Outer_Full	13.75	16.49	/	Pass
	2682.48	Outer_Full	13.75	17.42	/	Pass
CP-OFDM 16 QAM	2503.5	Outer_Full	13.71	14.95	/	Pass
	2592.99	Outer_Full	13.79	15.02	/	Pass
	2682.48	Outer_Full	13.75	15.15	/	Pass
CP-OFDM 64 QAM	2503.5	Outer_Full	13.73	14.92	/	Pass
	2592.99	Outer_Full	13.79	14.99	/	Pass
	2682.48	Outer_Full	13.76	14.90	/	Pass
CP-OFDM 256 QAM	2503.5	Outer_Full	13.75	15.51	/	Pass
	2592.99	Outer_Full	13.78	15.03	/	Pass
	2682.48	Outer_Full	13.70	15.03	/	Pass



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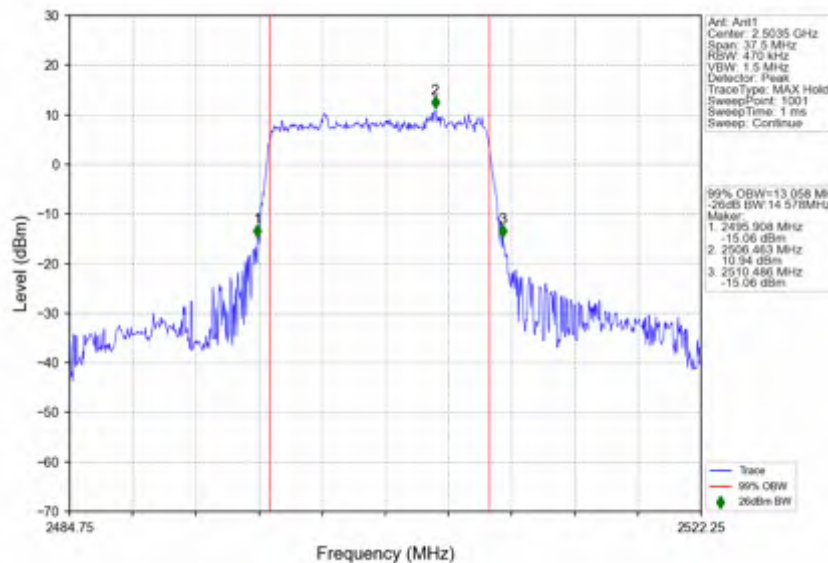
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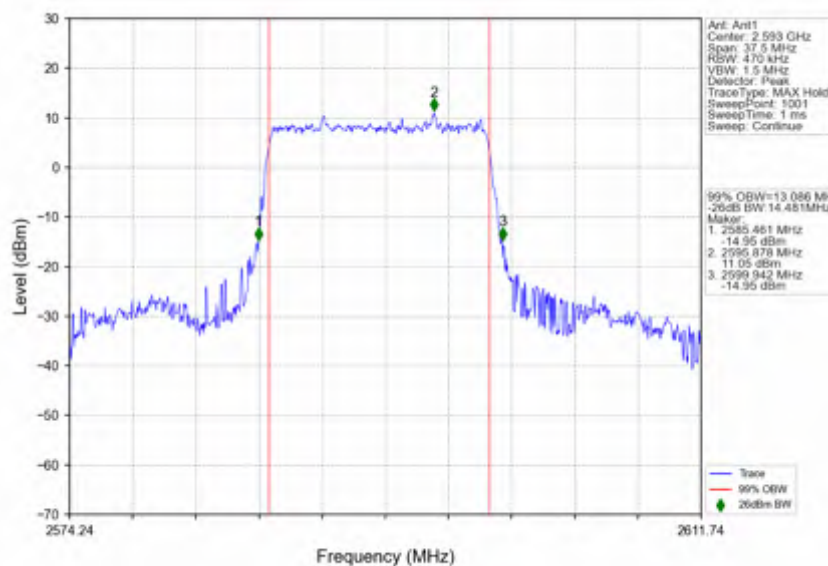
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6.8.2 Test Graph

n41_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_2503.5MHz_Outer_Full



n41_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_2592.99MHz_Outer_Full



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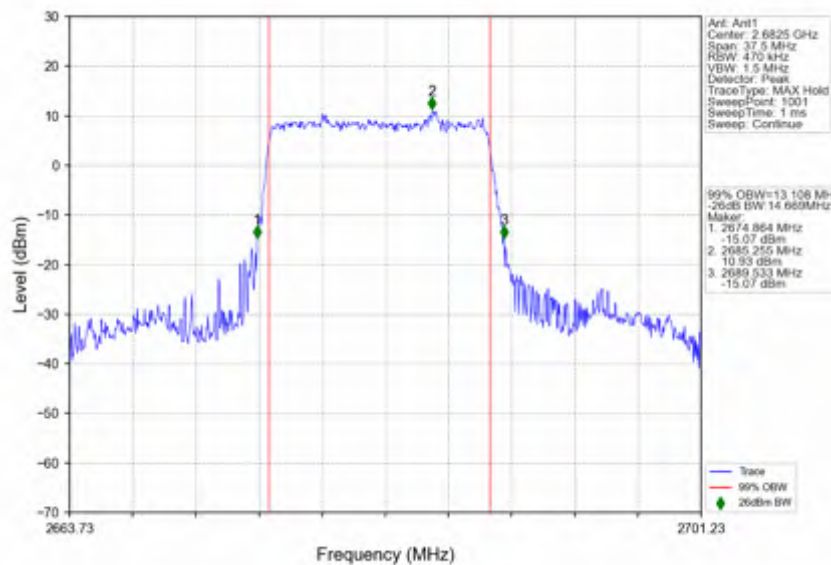
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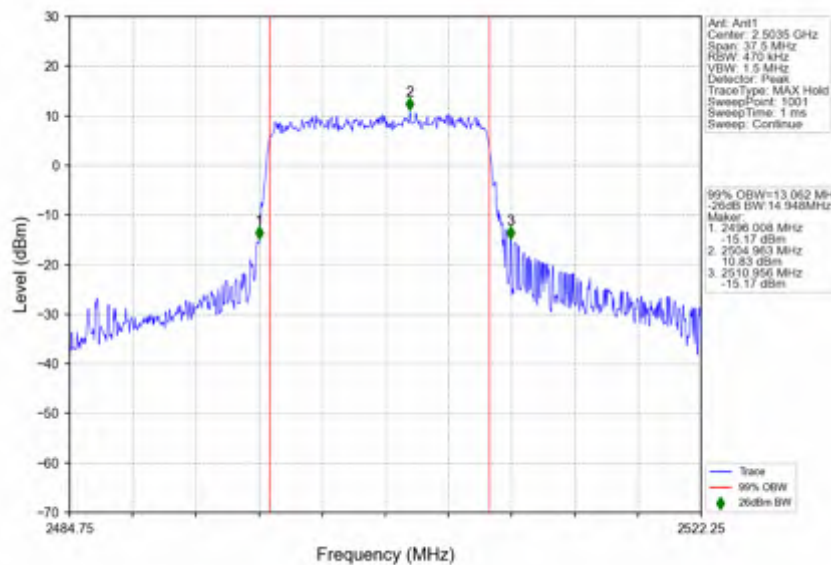
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n41_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_QPSK_2503.5MHz_Outer_Full

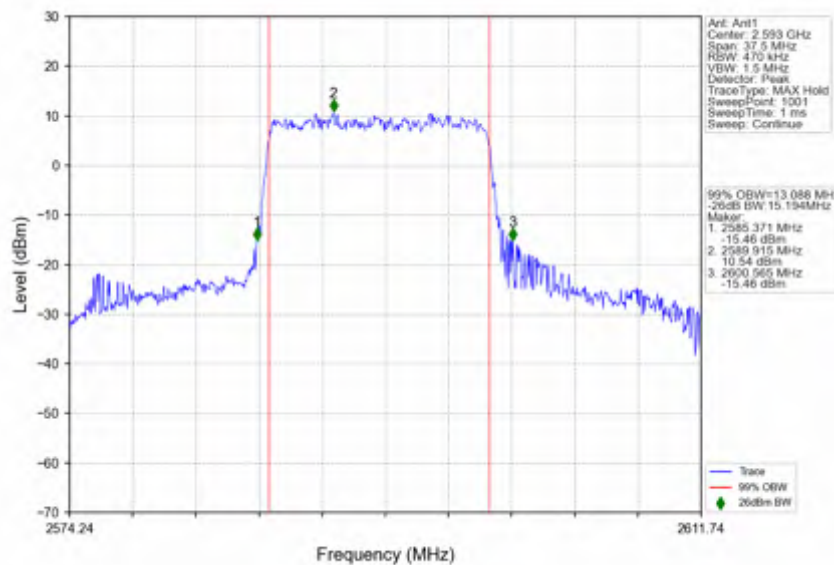


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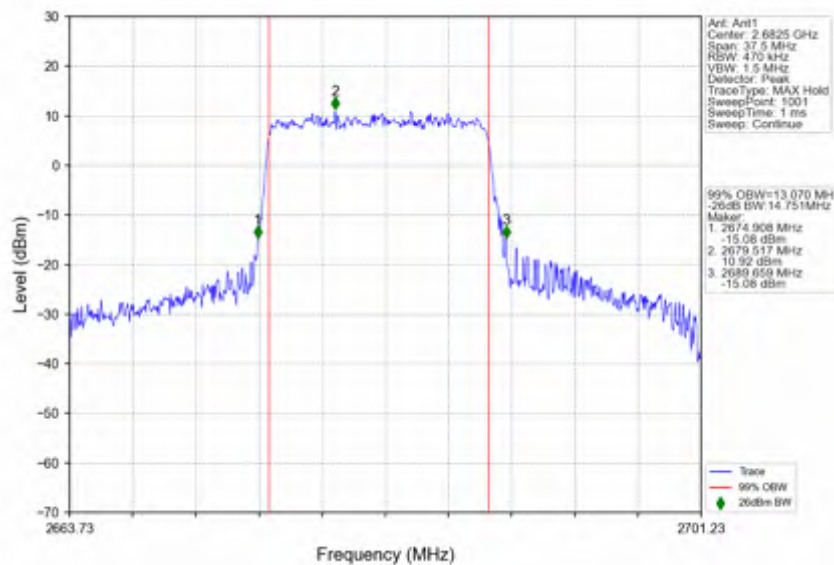
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n41_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_2682.48MHz_Outer_Full



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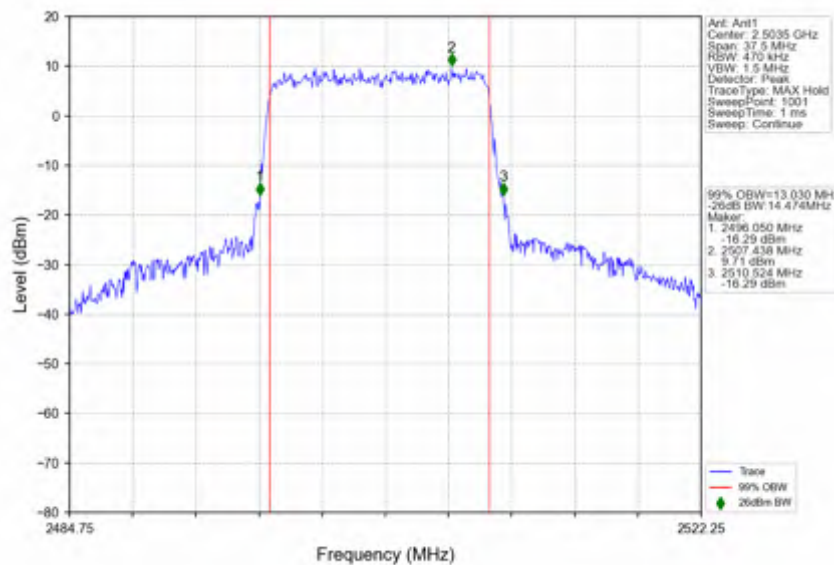
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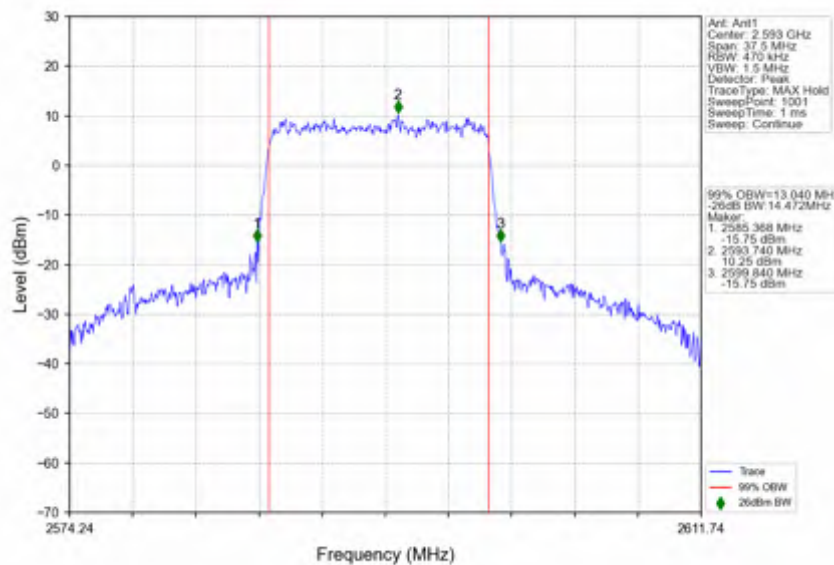
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n41_30kHz_SISO_NTV_15MHz_DFT-s-OFDM_16_QAM_2592.99MHz_Outer_Full



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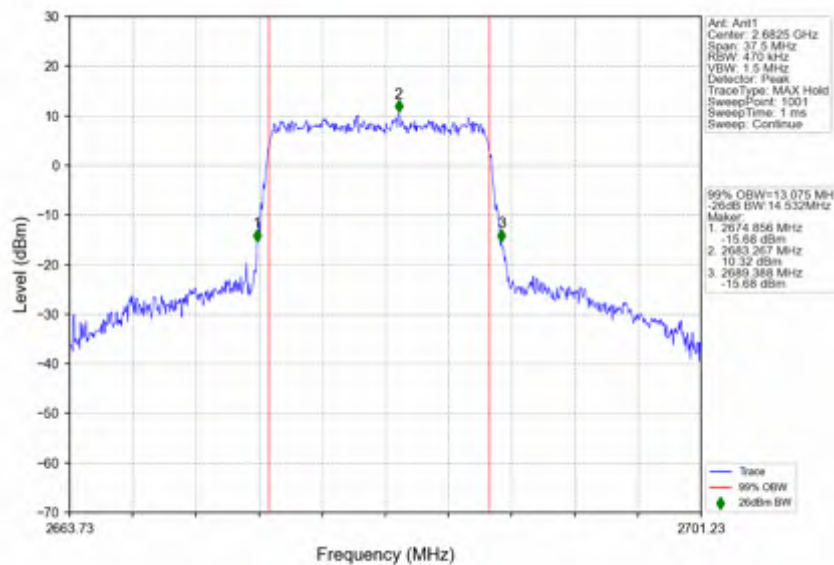
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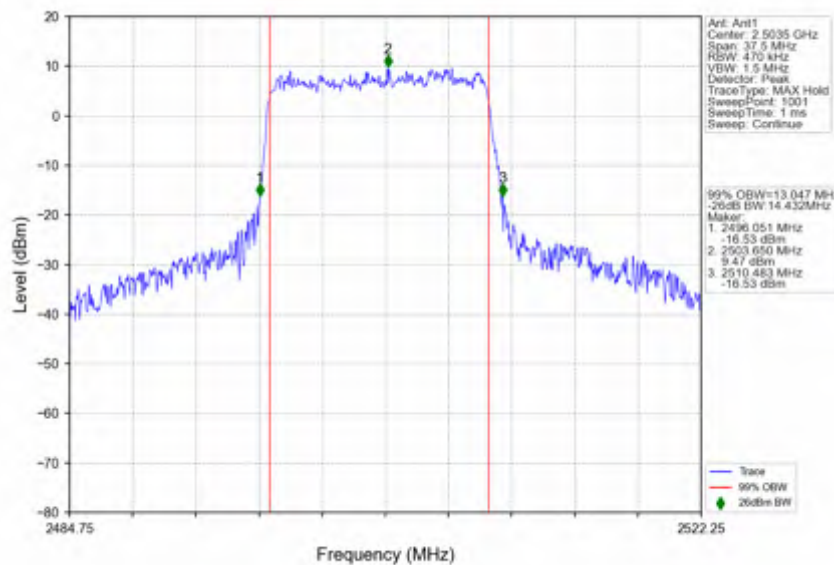
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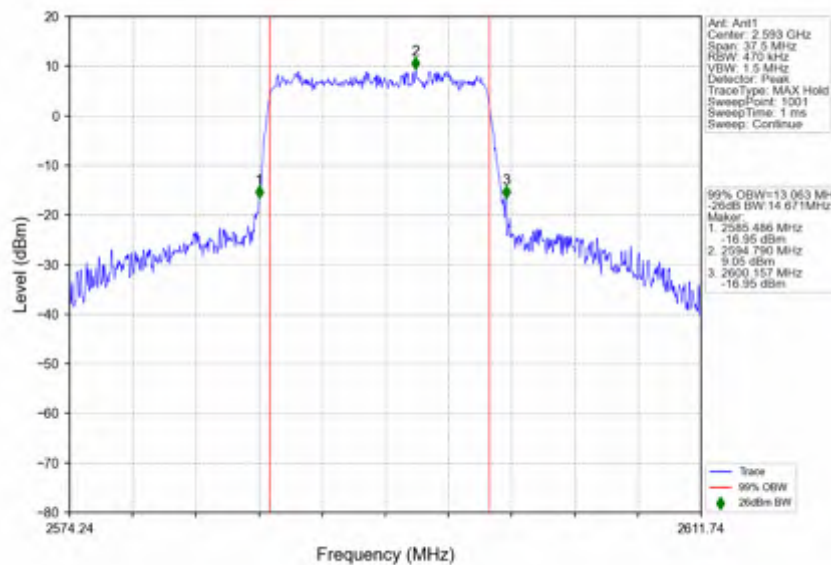
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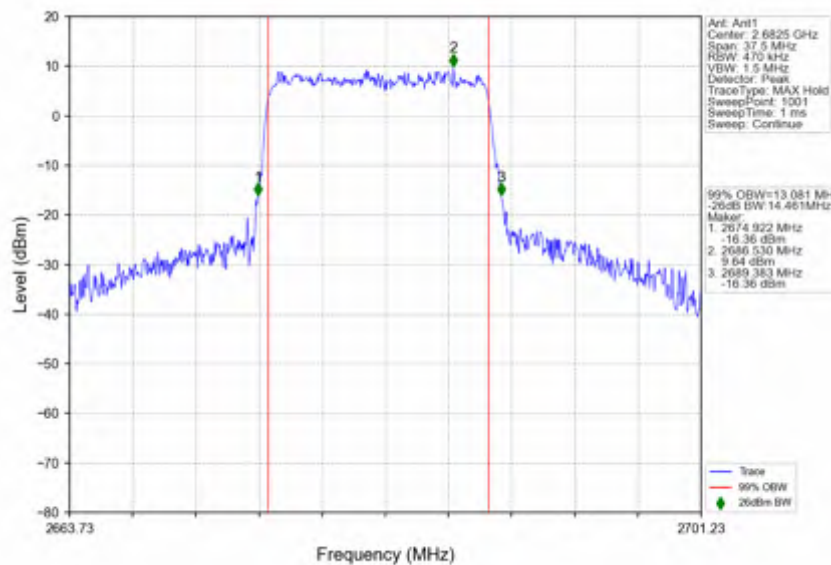
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n41	30kHz	SISO	NTNV	15MHz	DFT-s-OFDM	64 QAM	2592.99MHz	Outer	Full
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n41_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_64_QAM_2682.48MHz_Outer_Full

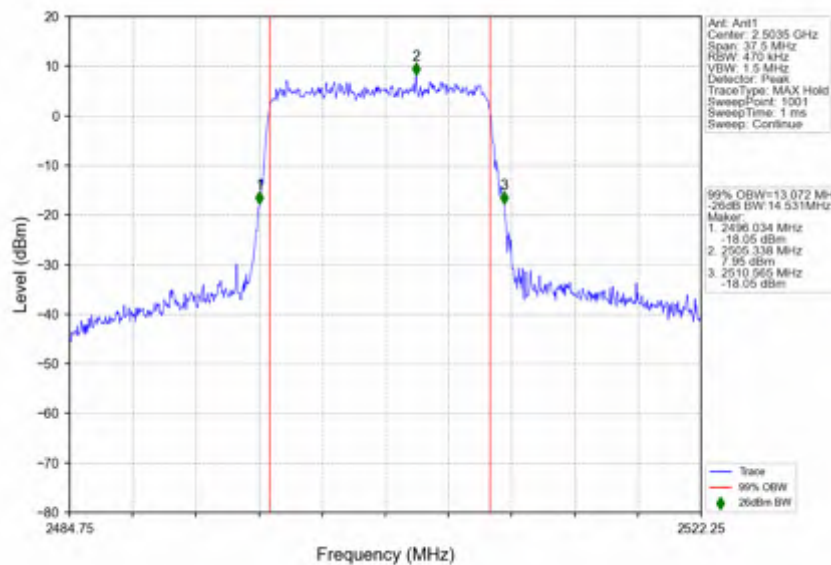


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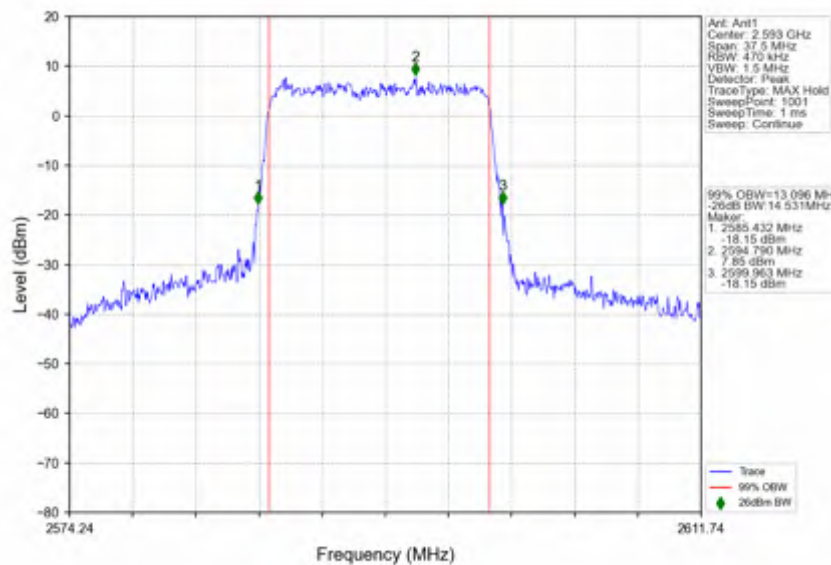
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n41_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_2503.5MHz_Outer_Full



n41_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_2592.99MHz_Outer_Full



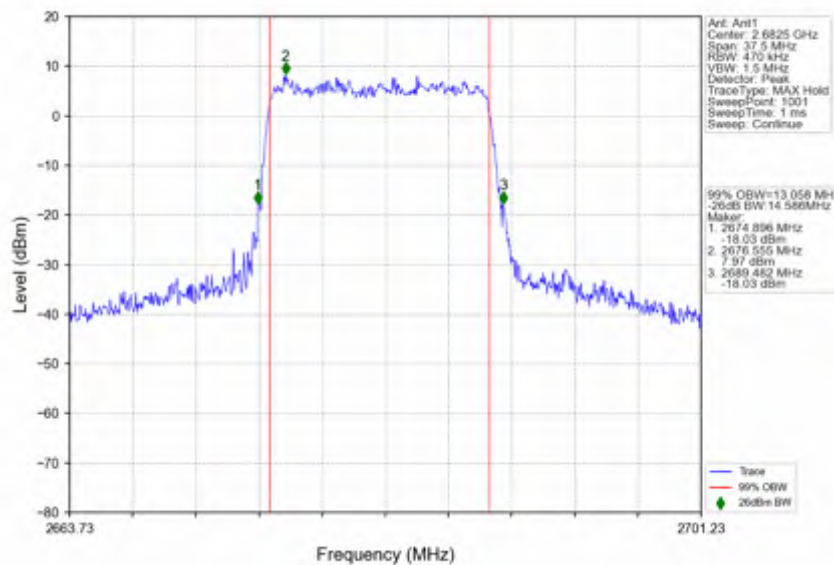
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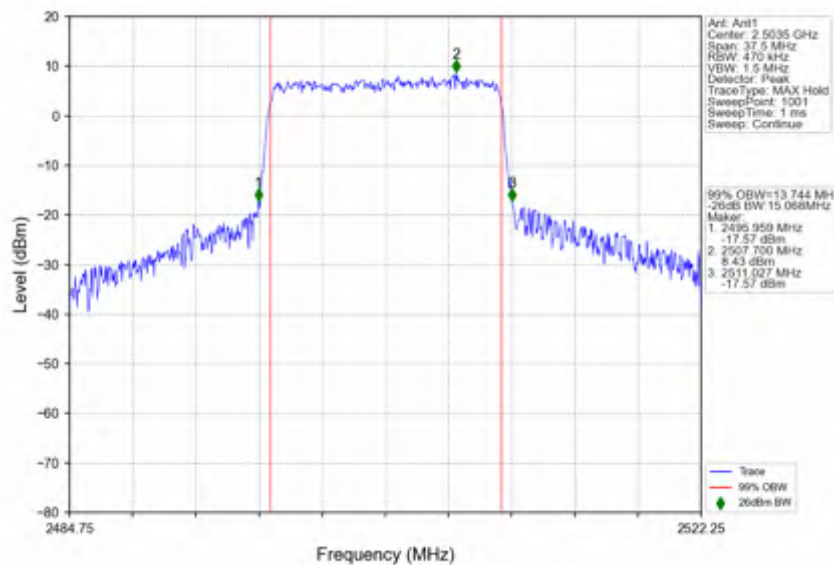
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n41_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM 256 QAM_2682.48MHz_Outer_Full



n41_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_2503.5MHz_Outer_Full



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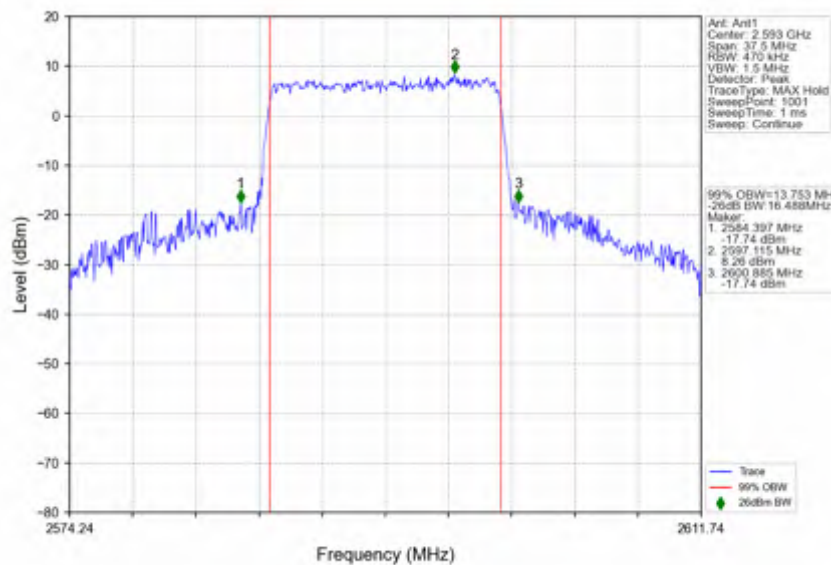
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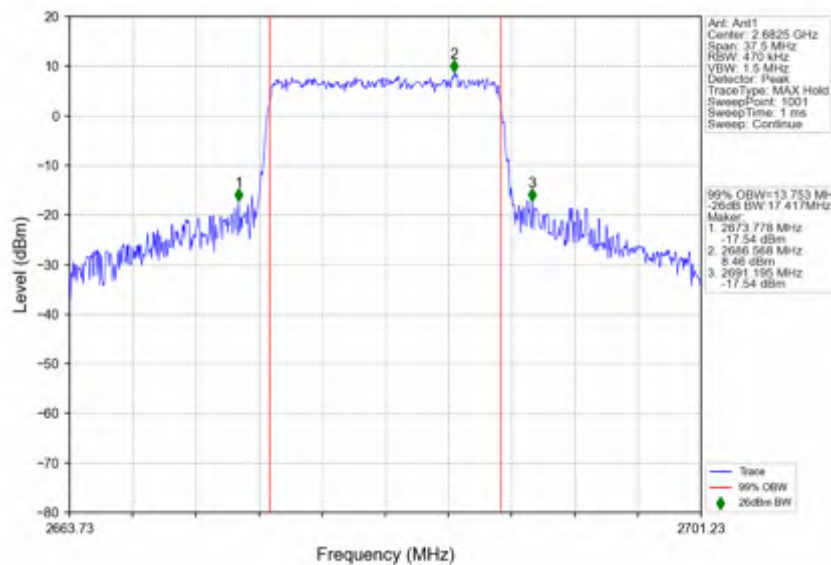
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n41_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_15MHz_CP-OFDM QPSK_2682.48MHz_Outer_Full



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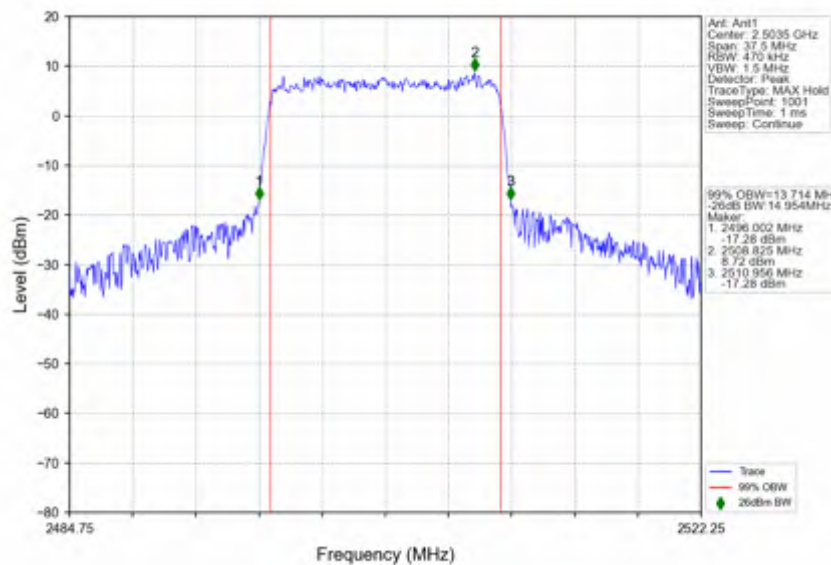
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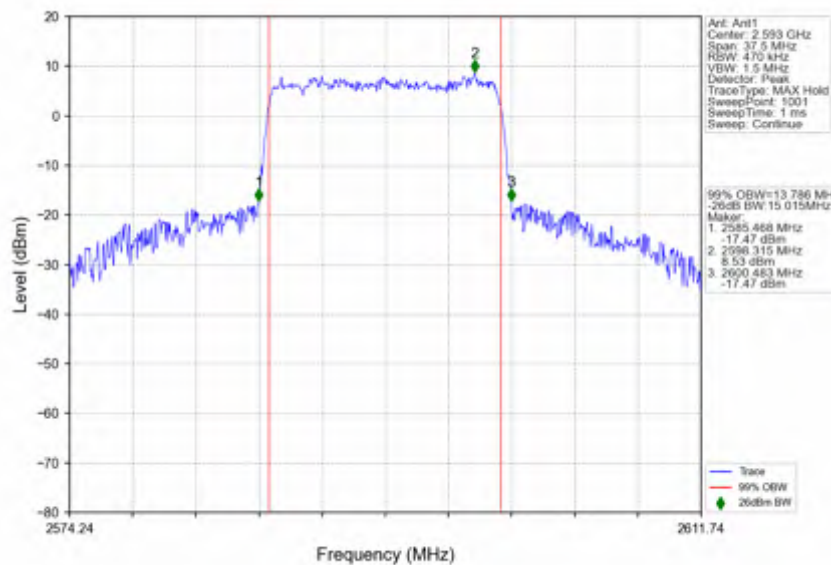
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n41_30kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_2503.5MHz_Outer_Full



n41_30kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_2592.99MHz_Outer_Full



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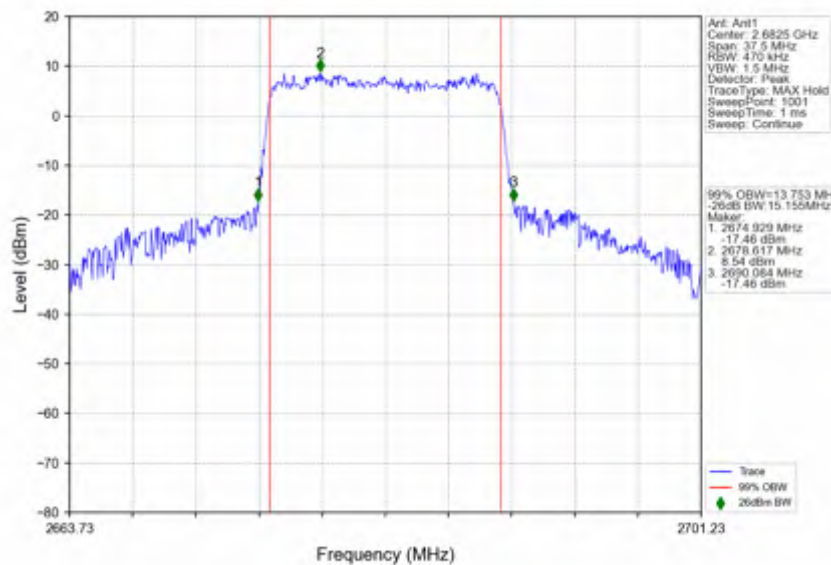
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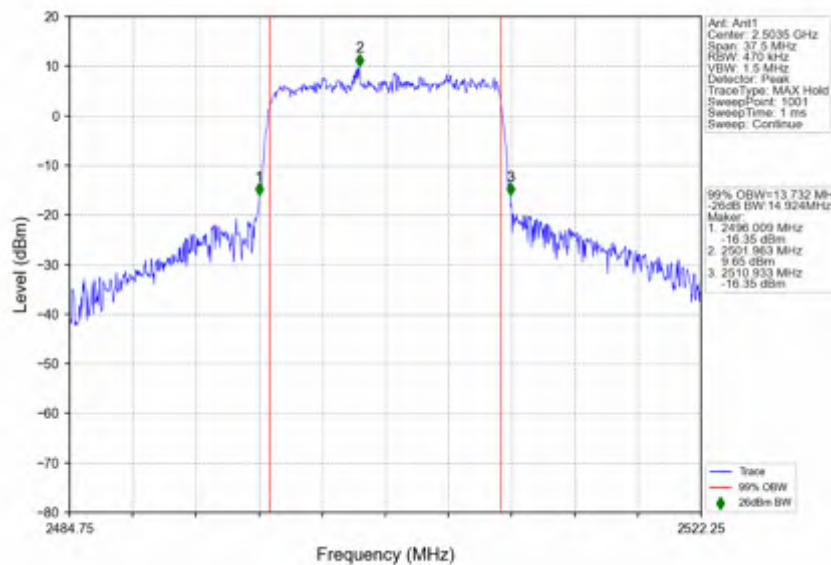
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n41	30kHz	SISO	NTNV	15MHz	CP-OFDM	16 QAM	2682.48MHz	Outer	Full
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n41_30kHz_SISO_NTNV_15MHz_CP-OFDM_64_QAM_2503.5MHz_Outer_Full



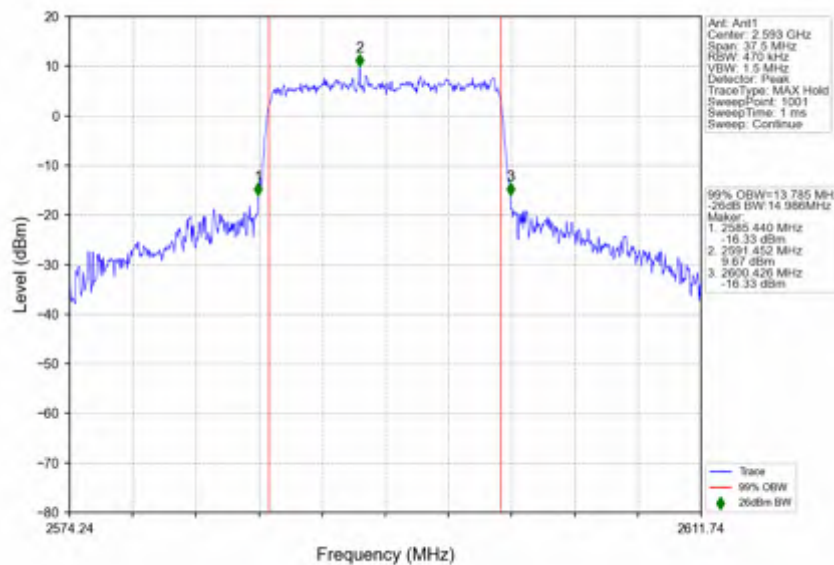
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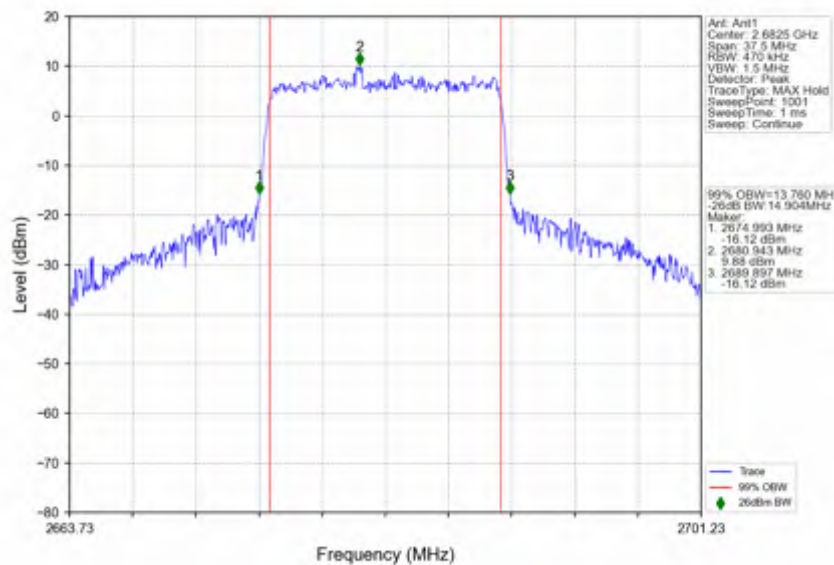
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n41_30kHz_SISO_NTNV_15MHz_CP-OFDM_64_QAM_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_15MHz_CP-OFDM_64_QAM_2682.48MHz_Outer_Full



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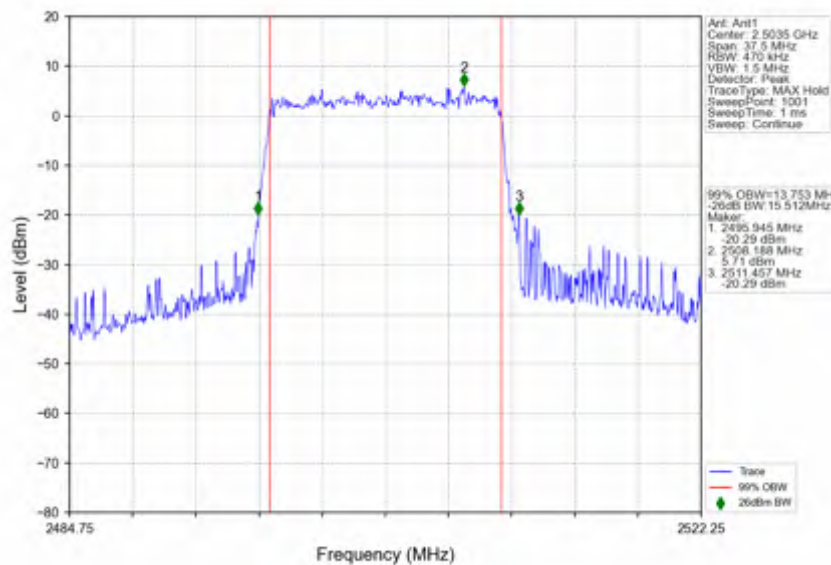
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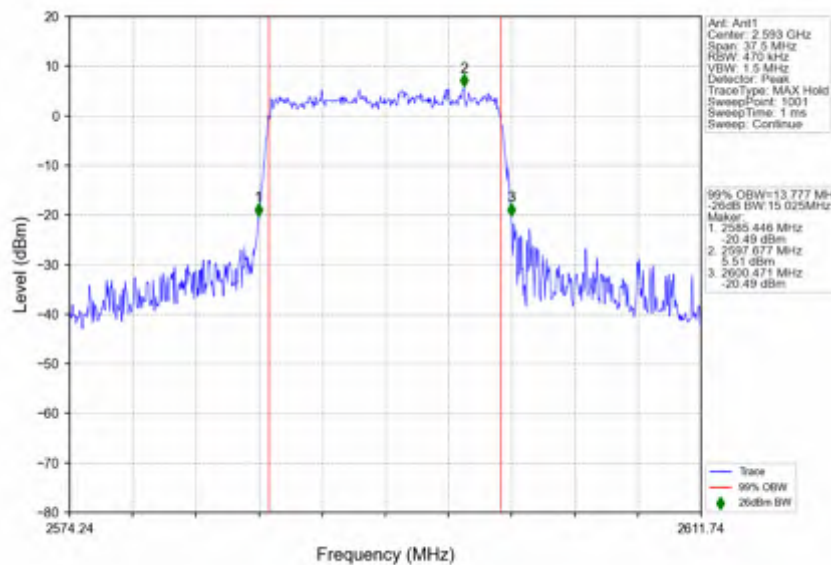
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n41_30kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_2503.5MHz_Outer_Full



n41_30kHz_SISO_NTNV_15MHz_CP-OFDM_256_QAM_2592.99MHz_Outer_Full



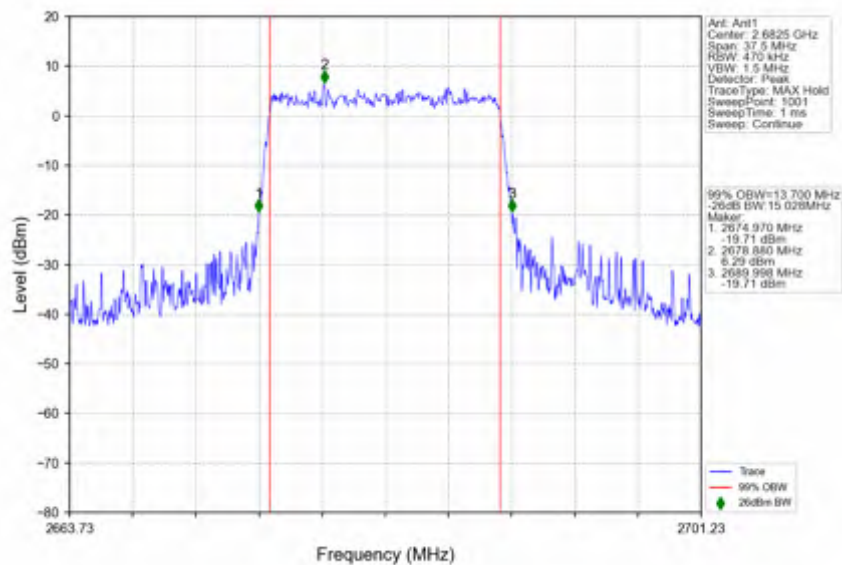
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n41_30kHz_SISO_NTNV_15MHz_CP-OFDM 256 QAM_2682.48MHz_Outer_Full



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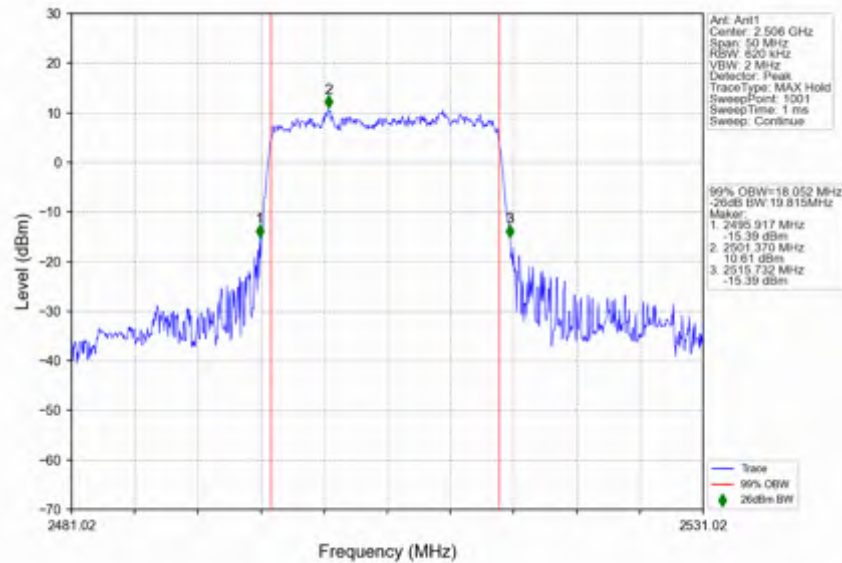
6.9 30k_SISO_20MHz_NTNV

6.9.1 Test Result

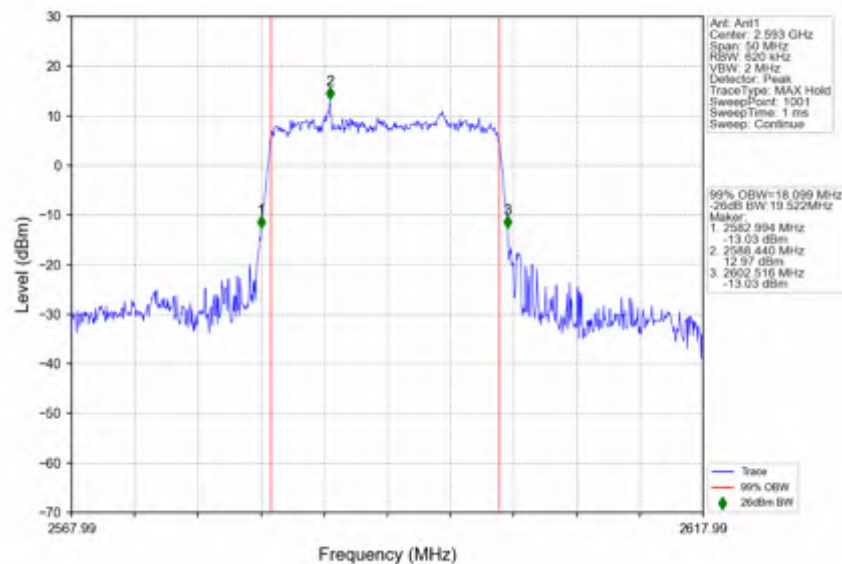
5G NR n41 SCS=30kHz SISO 20MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2506.02	Outer_Full	18.05	19.82	/	Pass
	2592.99	Outer_Full	18.10	19.52	/	Pass
	2679.99	Outer_Full	18.05	19.56	/	Pass
DFT-s-OFDM QPSK	2506.02	Outer_Full	18.06	19.95	/	Pass
	2592.99	Outer_Full	18.09	19.87	/	Pass
	2679.99	Outer_Full	18.07	19.85	/	Pass
DFT-s-OFDM 16 QAM	2506.02	Outer_Full	18.11	19.79	/	Pass
	2592.99	Outer_Full	18.13	19.85	/	Pass
	2679.99	Outer_Full	18.15	19.79	/	Pass
DFT-s-OFDM 64 QAM	2506.02	Outer_Full	18.10	19.63	/	Pass
	2592.99	Outer_Full	18.11	19.68	/	Pass
	2679.99	Outer_Full	18.10	19.74	/	Pass
DFT-s-OFDM 256 QAM	2506.02	Outer_Full	18.07	19.76	/	Pass
	2592.99	Outer_Full	18.14	19.62	/	Pass
	2679.99	Outer_Full	18.10	19.63	/	Pass
CP-OFDM QPSK	2506.02	Outer_Full	18.40	22.55	/	Pass
	2592.99	Outer_Full	18.48	23.12	/	Pass
	2679.99	Outer_Full	18.44	22.27	/	Pass
CP-OFDM 16 QAM	2506.02	Outer_Full	18.45	20.22	/	Pass
	2592.99	Outer_Full	18.52	25.07	/	Pass
	2679.99	Outer_Full	18.51	24.96	/	Pass
CP-OFDM 64 QAM	2506.02	Outer_Full	18.40	20.28	/	Pass
	2592.99	Outer_Full	18.50	20.47	/	Pass
	2679.99	Outer_Full	18.43	20.24	/	Pass
CP-OFDM 256 QAM	2506.02	Outer_Full	18.38	20.03	/	Pass
	2592.99	Outer_Full	18.41	20.16	/	Pass
	2679.99	Outer_Full	18.39	20.05	/	Pass

6.9.2 Test Graph

n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_PI/2_BPSK_2506.02MHz_Outer_Full



n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_PI/2_BPSK_2592.99MHz_Outer_Full



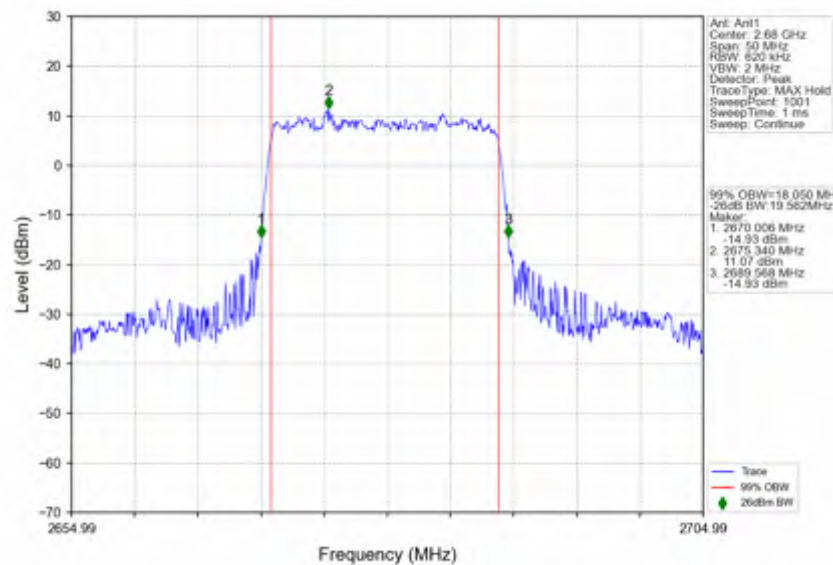
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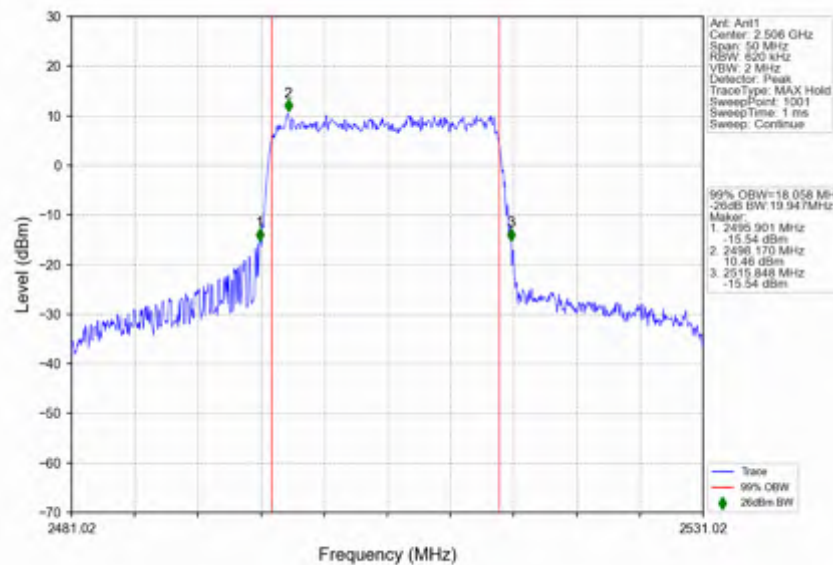
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n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_2506.02MHz_Outer_Full



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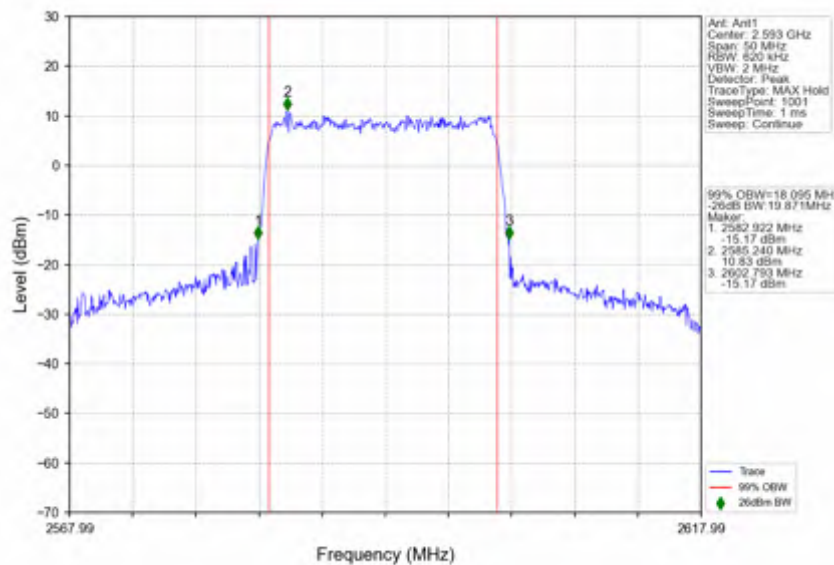
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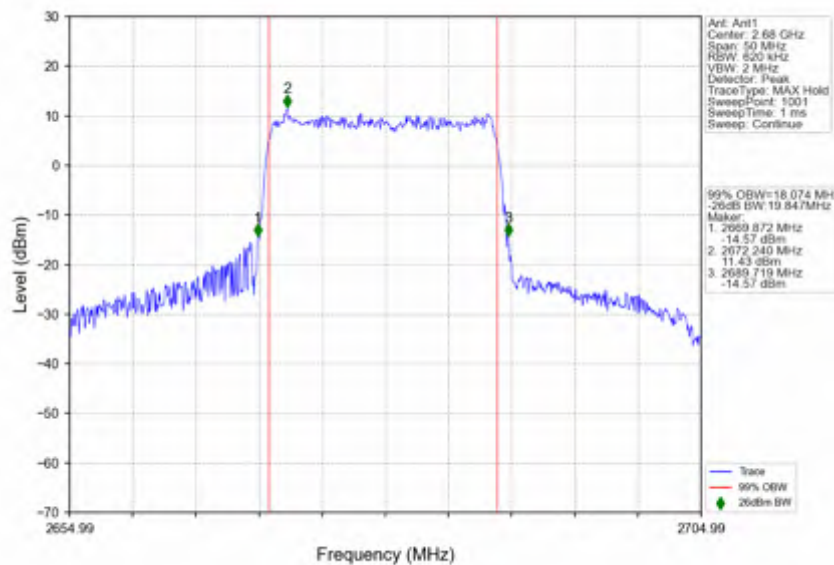
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n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_2679.99MHz_Outer_Full

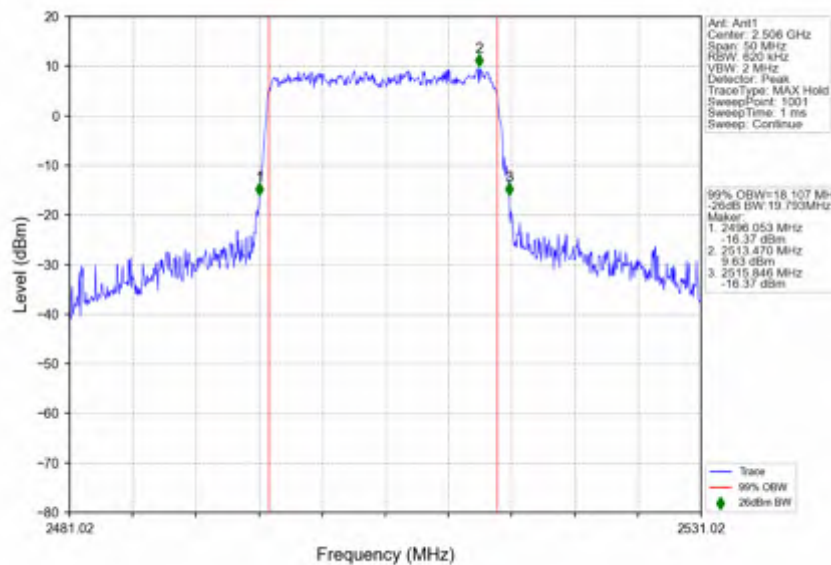


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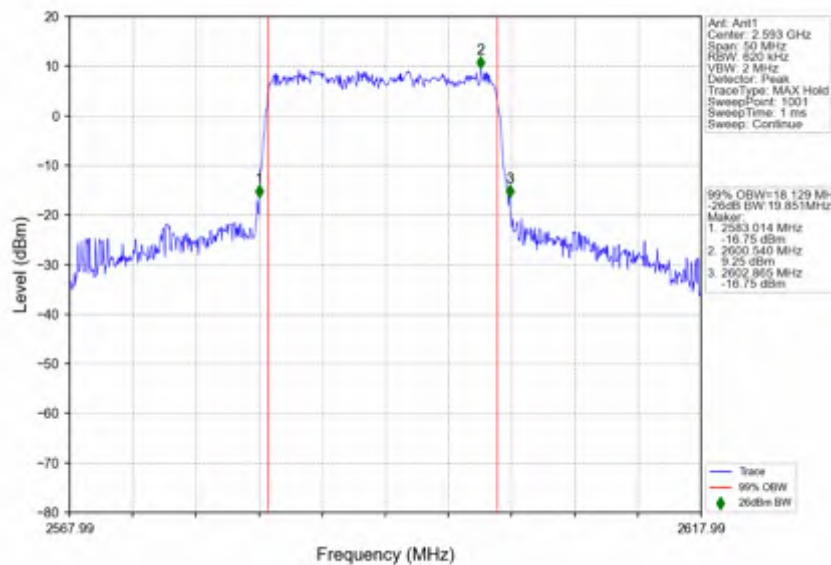
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n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_2506.02MHz_Outer_Full



n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_2592.99MHz_Outer_Full

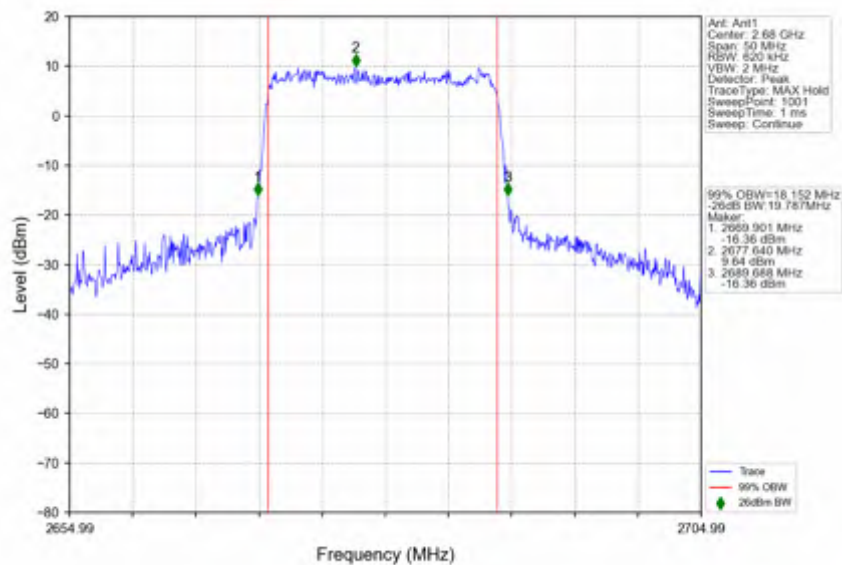


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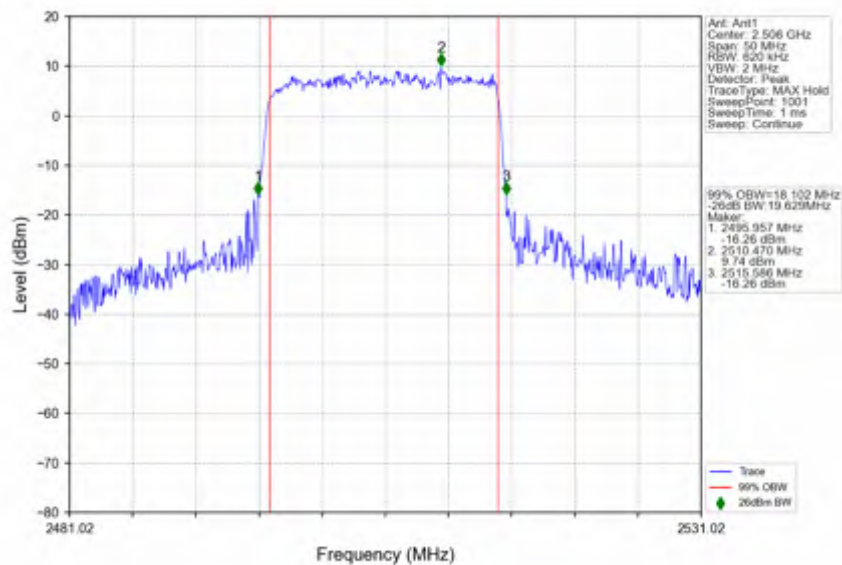
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n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_16_QAM_2679.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_64_QAM_2506.02MHz_Outer_Full

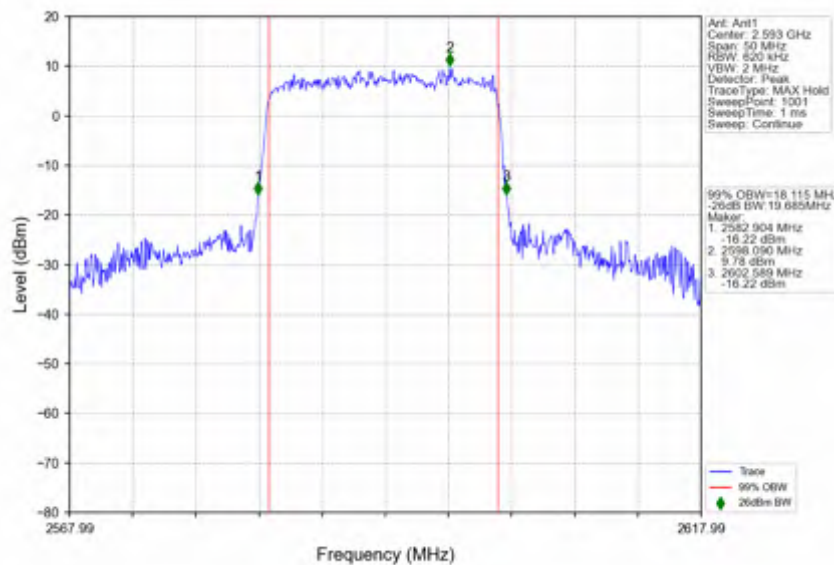


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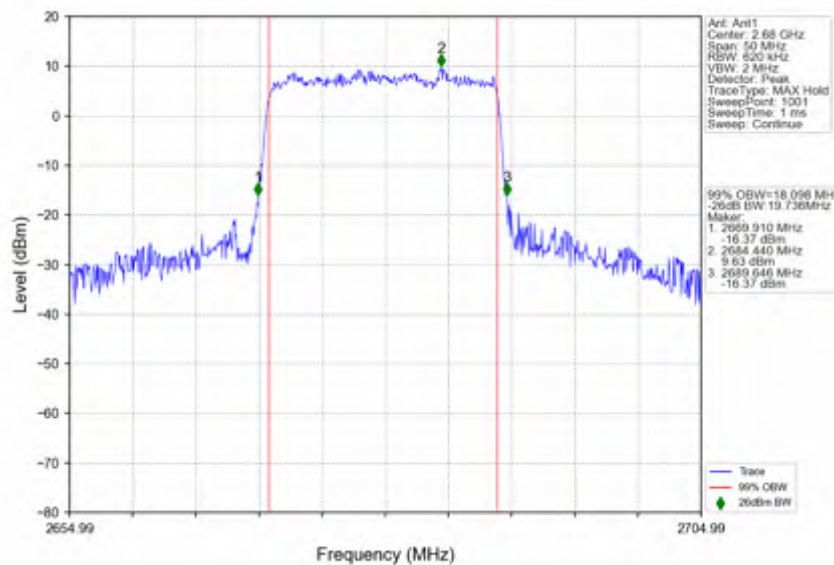
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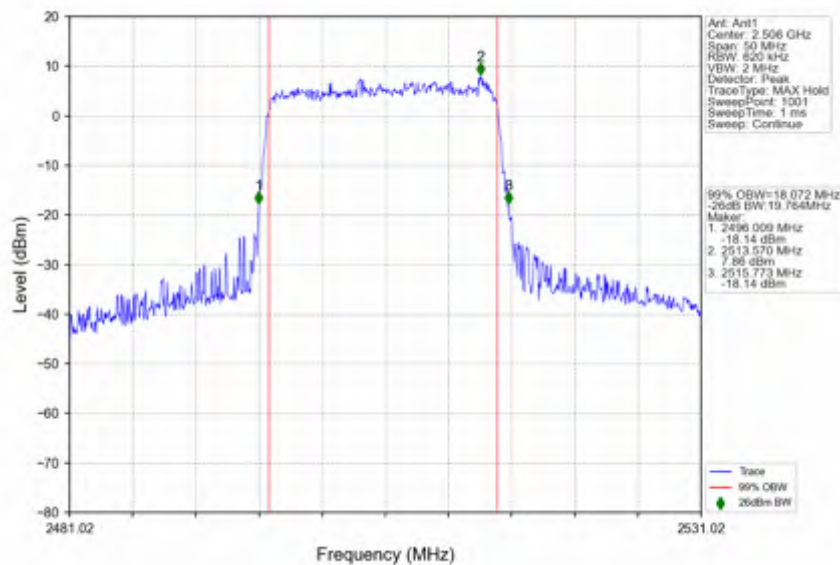


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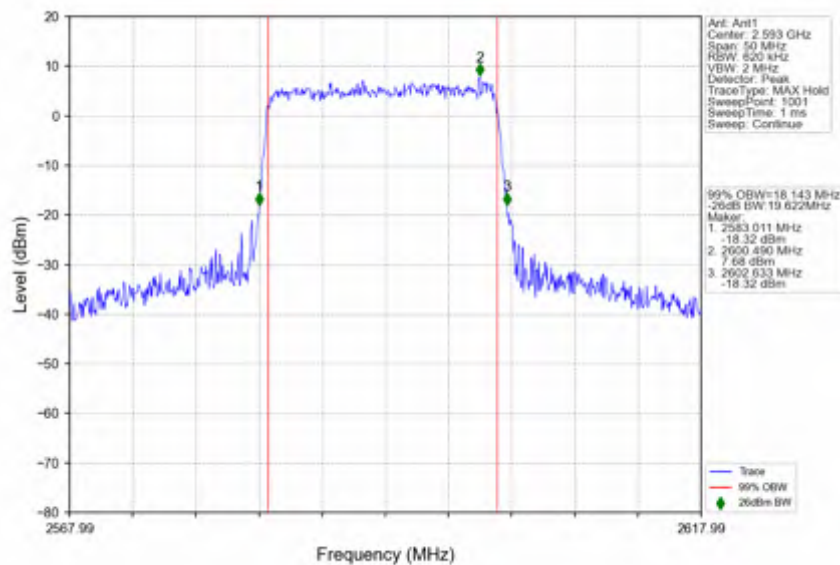
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n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_2506.02MHz_Outer_Full



n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 256 QAM_2592.99MHz_Outer_Full



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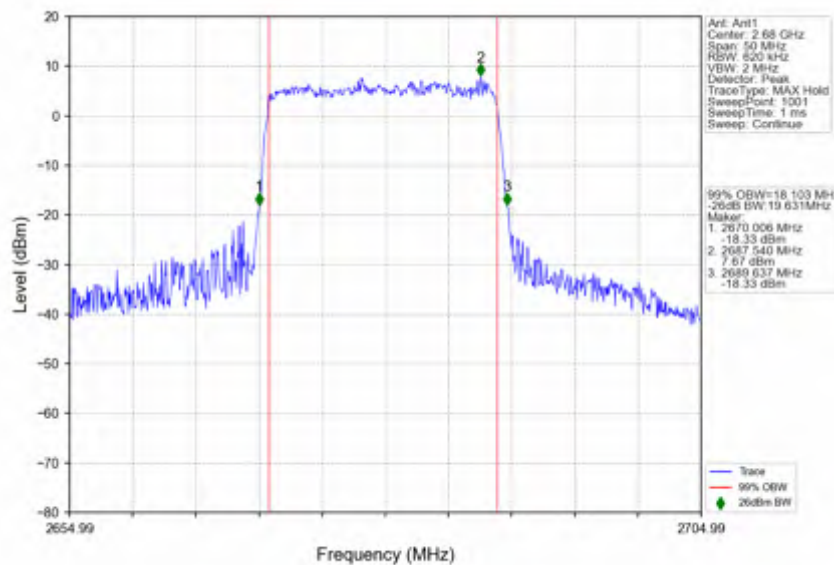
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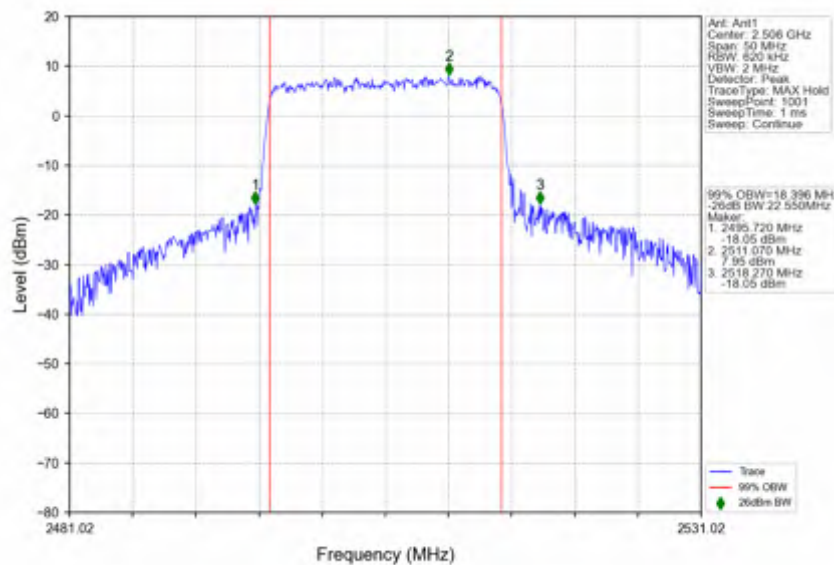
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n41_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_2679.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_20MHz_CP-OFDM_QPSK_2506.02MHz_Outer_Full

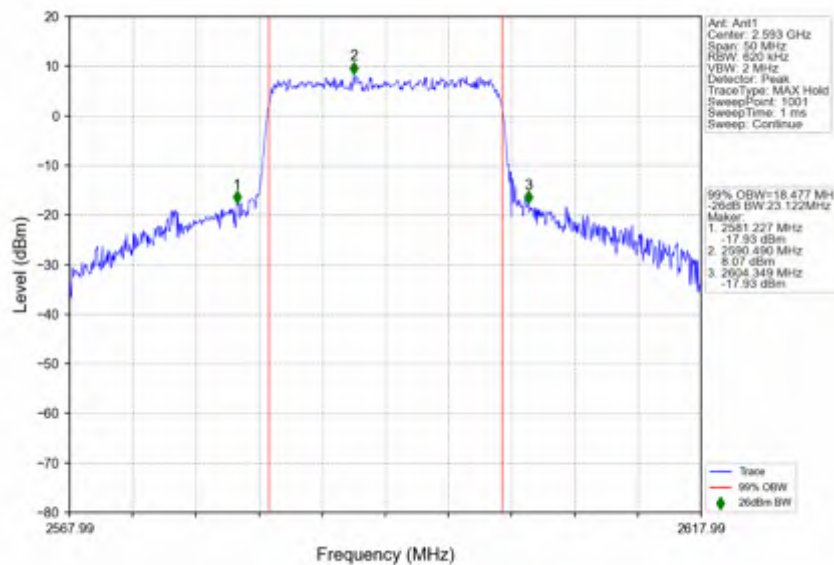


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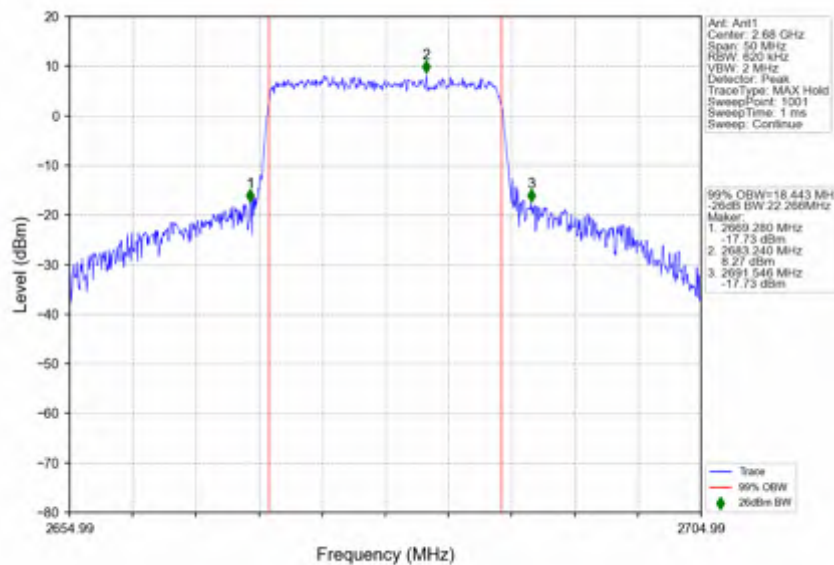
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n41_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_2679.99MHz_Outer_Full



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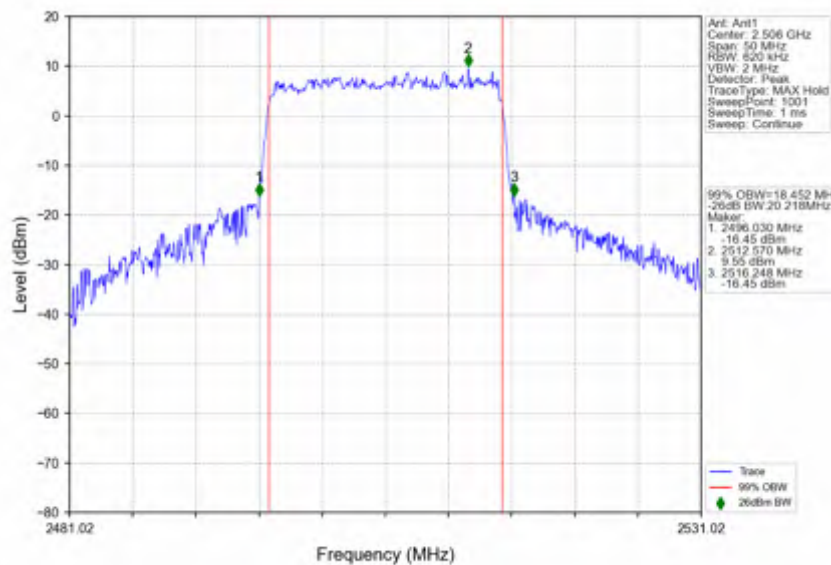
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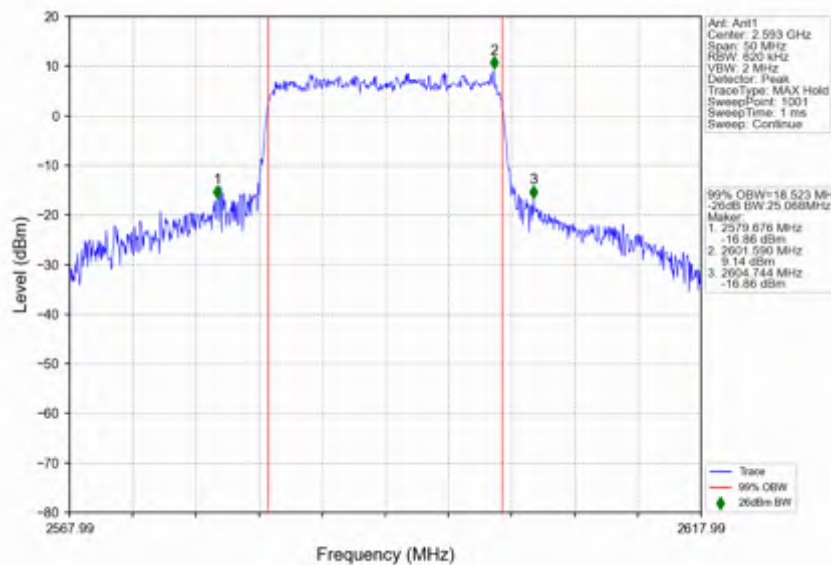
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n41	30kHz	SISO	NTNV	20MHz	CP-OFDM	16 QAM	2506.02MHz	Outer	Full
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n41_30kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_2592.99MHz_Outer_Full

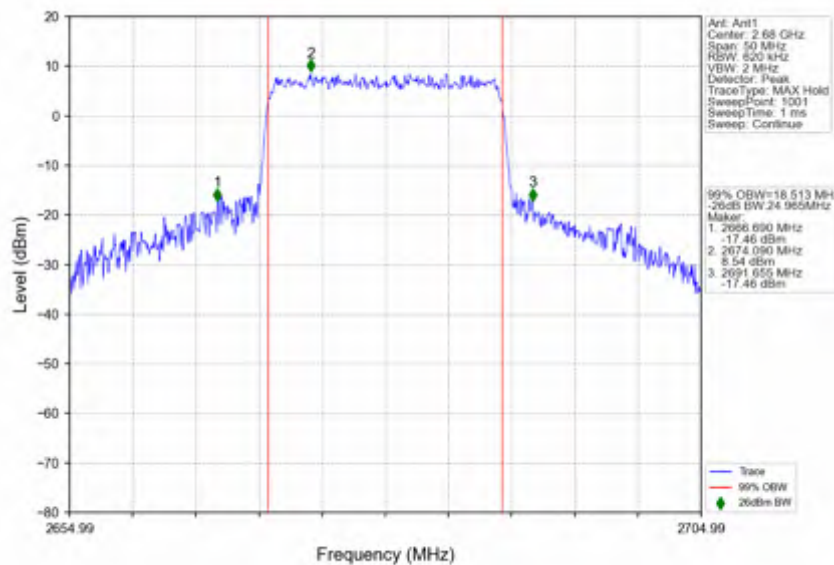


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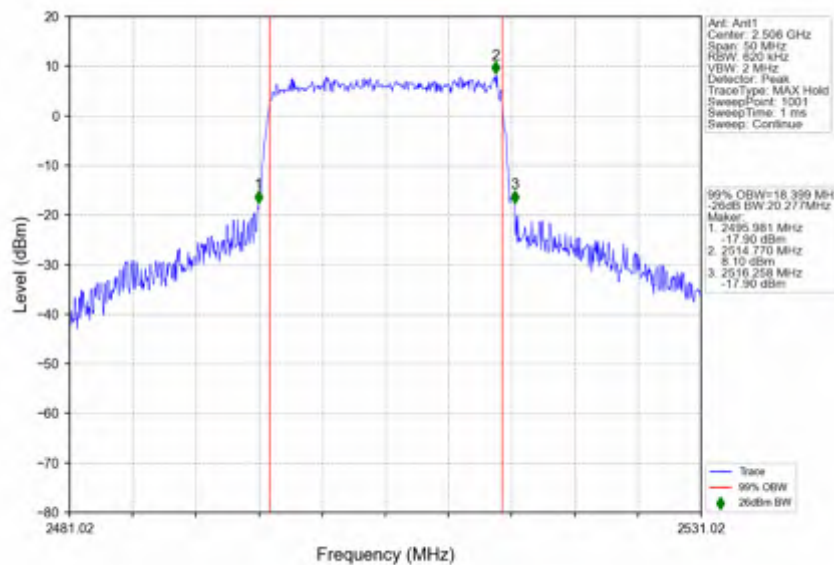
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n41_30kHz_SISO_NTNV_20MHz_CP-OFDM_16_QAM_2679.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_20MHz_CP-OFDM_64_QAM_2506.02MHz_Outer_Full



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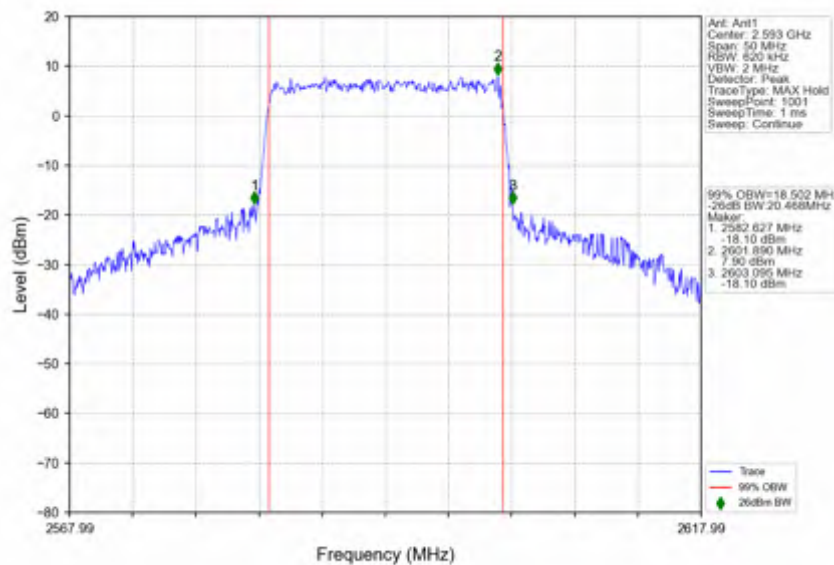
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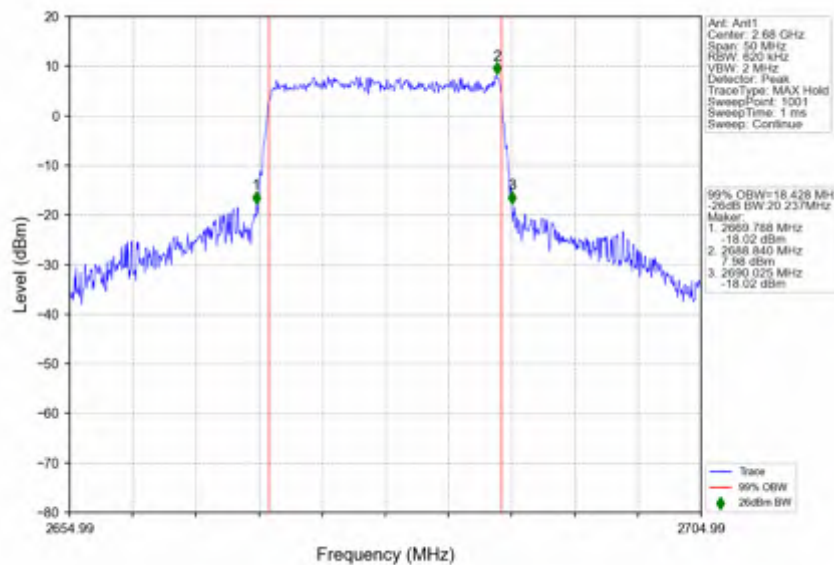
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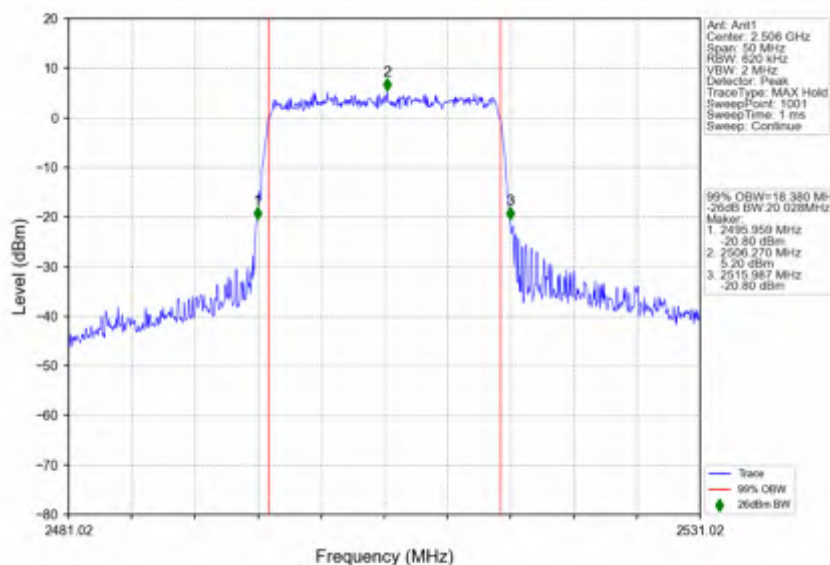
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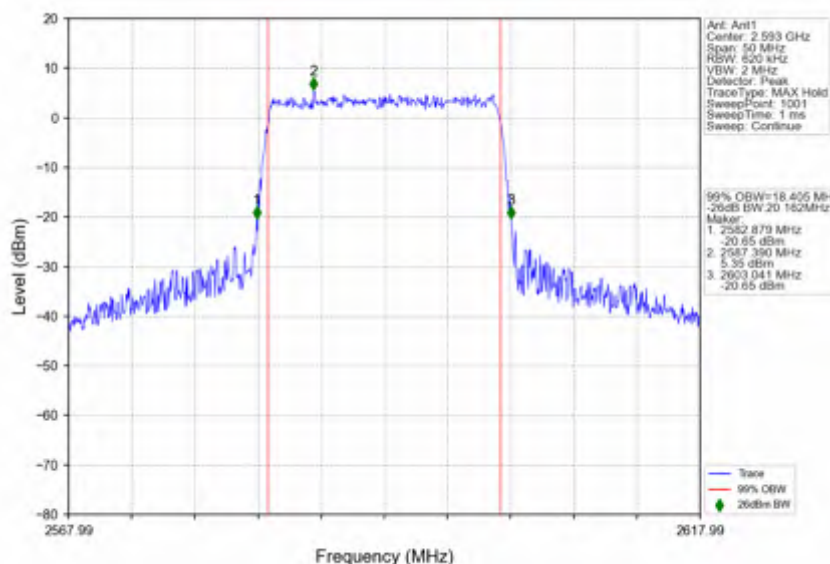
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n41	30kHz	SISO	NTNV	20MHz	CP-OFDM	256 QAM	2506.02MHz	Outer	Full
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n41	30kHz	SISO	NTNV	20MHz	CP-OFDM	256 QAM	2592.99MHz	Outer	Full
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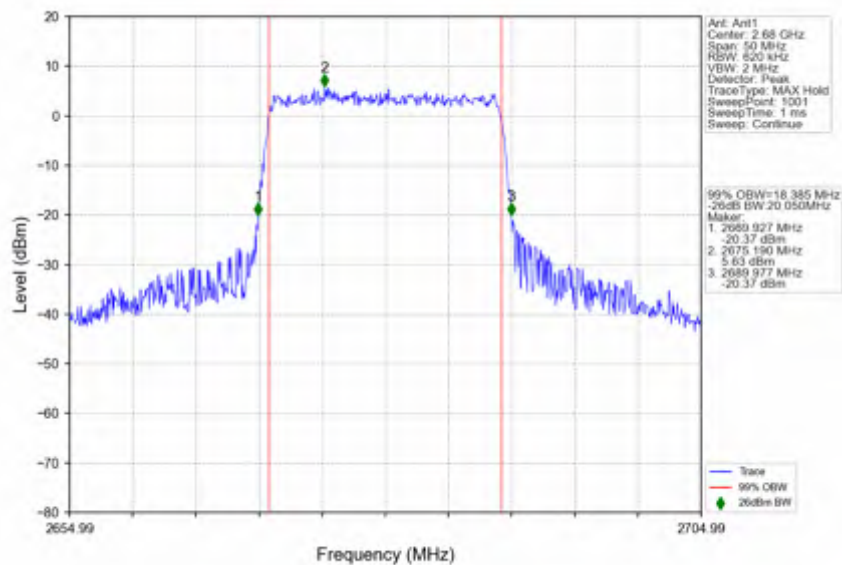


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**6.10 30k_SISO_30MHz_NTNV****6.10.1 Test Result**

5G NR n41 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	2511	Outer_Full	27.07	29.34	/	Pass
	2592.99	Outer_Full	27.11	29.29	/	Pass
	2674.98	Outer_Full	27.11	29.62	/	Pass
DFT-s-OFDM QPSK	2511	Outer_Full	27.11	29.58	/	Pass
	2592.99	Outer_Full	27.21	30.14	/	Pass
	2674.98	Outer_Full	27.19	30.08	/	Pass
DFT-s-OFDM 16 QAM	2511	Outer_Full	27.01	29.46	/	Pass
	2592.99	Outer_Full	27.09	29.54	/	Pass
	2674.98	Outer_Full	27.03	29.87	/	Pass
DFT-s-OFDM 64 QAM	2511	Outer_Full	27.10	29.52	/	Pass
	2592.99	Outer_Full	27.21	29.47	/	Pass
	2674.98	Outer_Full	27.17	29.67	/	Pass
DFT-s-OFDM 256 QAM	2511	Outer_Full	26.98	29.44	/	Pass
	2592.99	Outer_Full	27.14	29.72	/	Pass
	2674.98	Outer_Full	27.14	29.97	/	Pass
CP-OFDM QPSK	2511	Outer_Full	28.14	30.59	/	Pass
	2592.99	Outer_Full	28.18	30.97	/	Pass
	2674.98	Outer_Full	28.10	32.28	/	Pass
CP-OFDM 16 QAM	2511	Outer_Full	28.02	30.10	/	Pass
	2592.99	Outer_Full	28.15	30.43	/	Pass
	2674.98	Outer_Full	28.08	31.98	/	Pass
CP-OFDM 64 QAM	2511	Outer_Full	28.05	31.70	/	Pass
	2592.99	Outer_Full	28.12	30.86	/	Pass
	2674.98	Outer_Full	28.10	31.84	/	Pass
CP-OFDM 256 QAM	2511	Outer_Full	28.09	30.51	/	Pass
	2592.99	Outer_Full	28.17	30.29	/	Pass
	2674.98	Outer_Full	28.19	30.58	/	Pass



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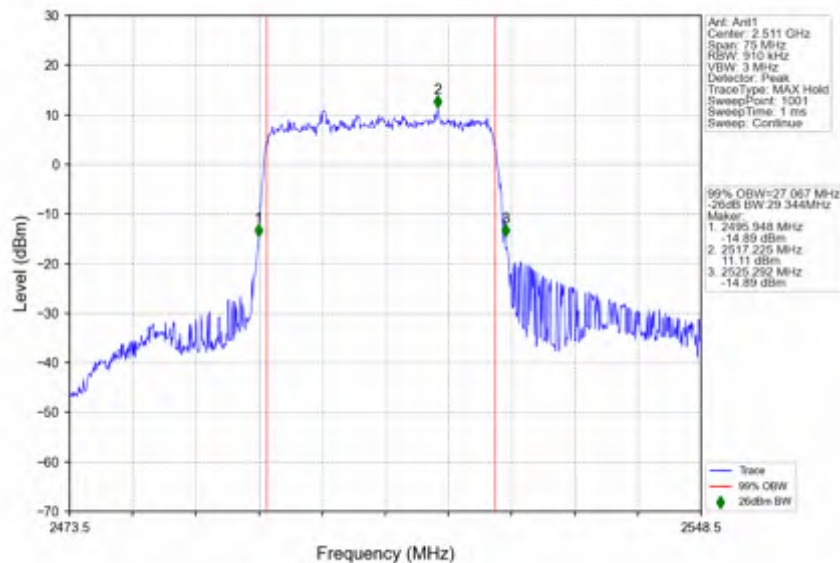
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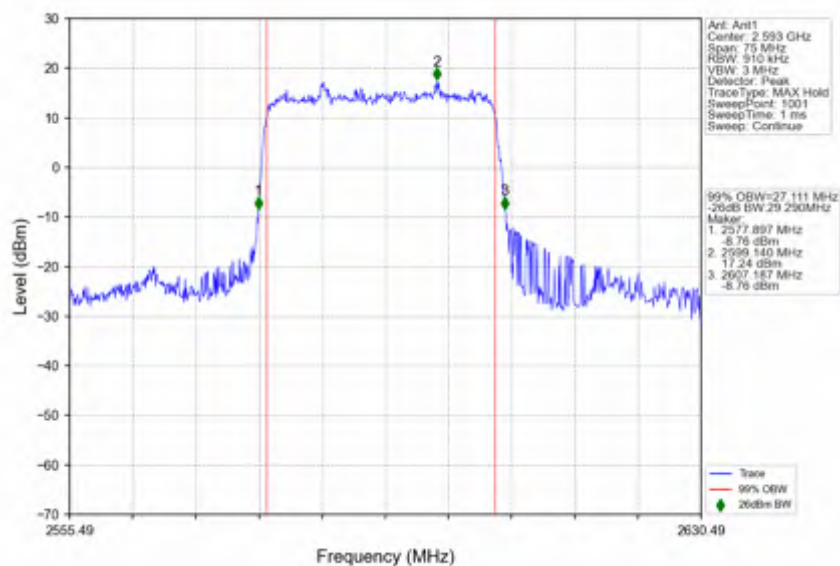
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6.10.2 Test Graph

n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_PI/2_BPSK_2511MHz_Outer_Full



n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_PI/2_BPSK_2592.99MHz_Outer_Full



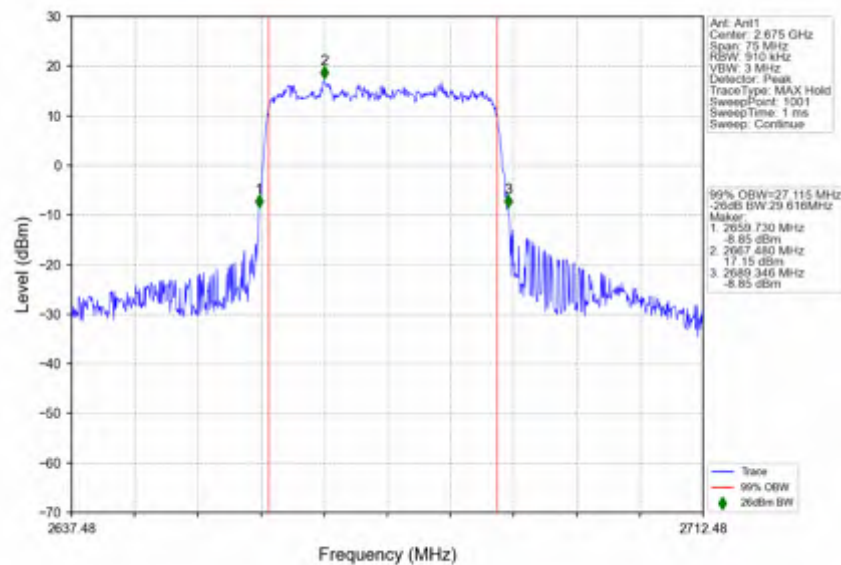
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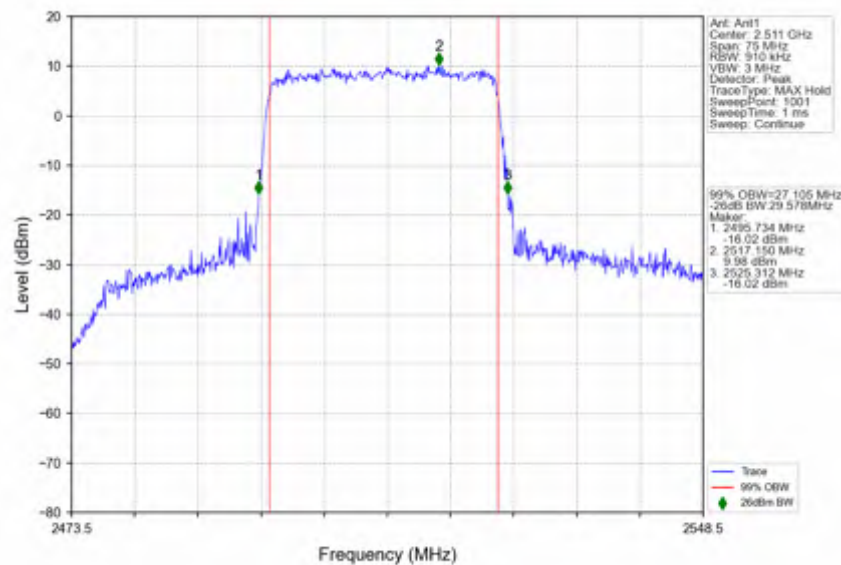
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n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM PI/2 BPSK_2674.98MHz_Outer_Full



n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM QPSK_2511MHz_Outer_Full



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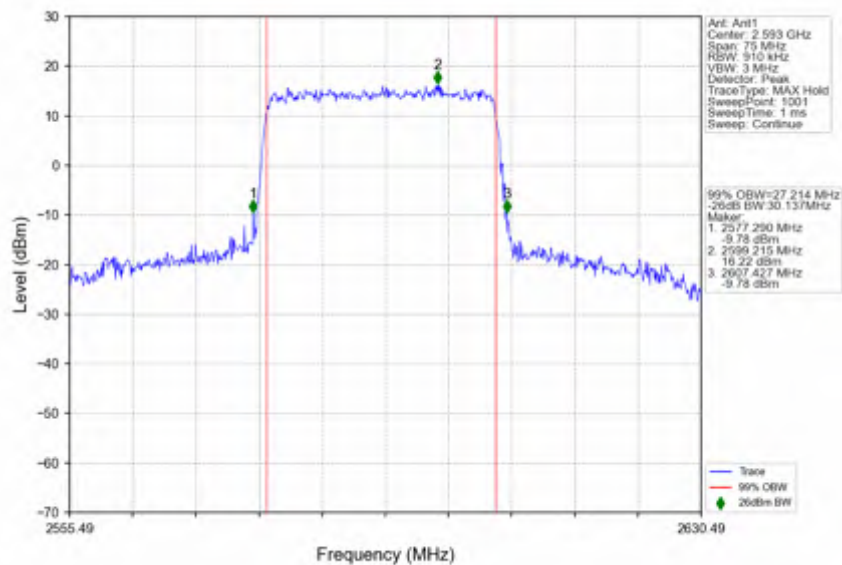
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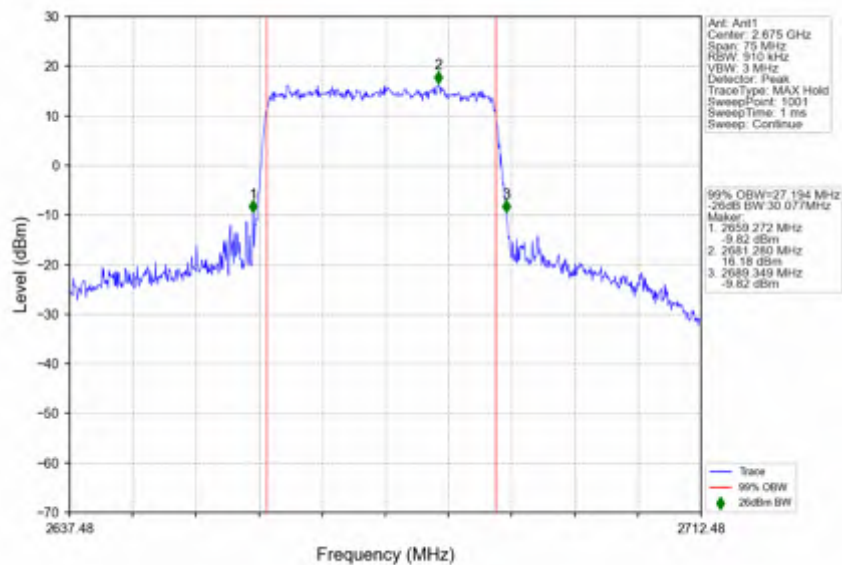
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n41	30kHz	SISO	NTNV	30MHz	DFT-s-OFDM	QPSK	2592.99MHz	Outer	Full
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n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_QPSK_2674.98MHz_Outer_Full

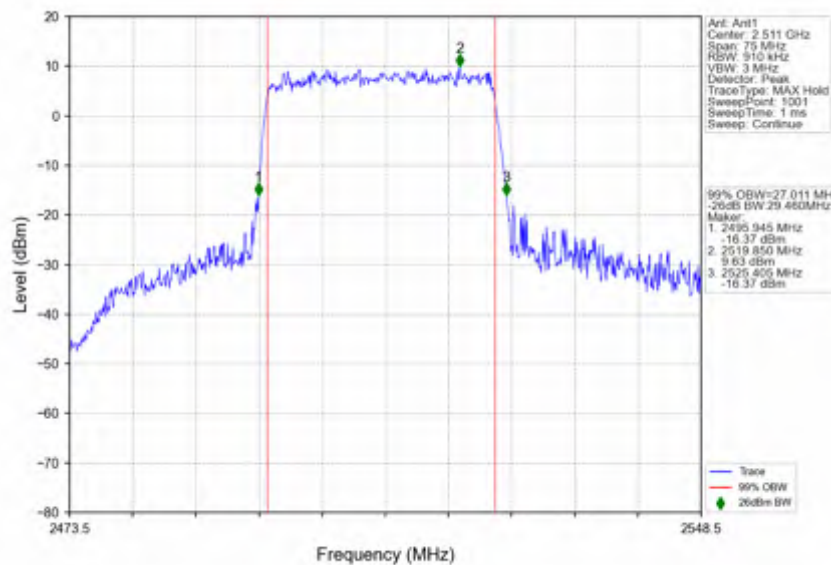


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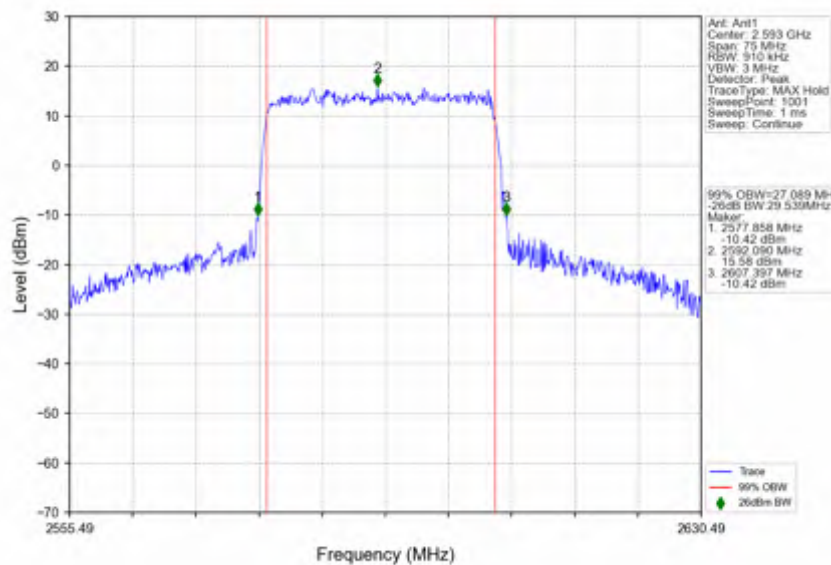
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n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_2511MHz_Outer_Full



n41	30kHz	SISO	NTNV	30MHz	DFT-s-OFDM	16 QAM	2592.99MHz	Outer	Full
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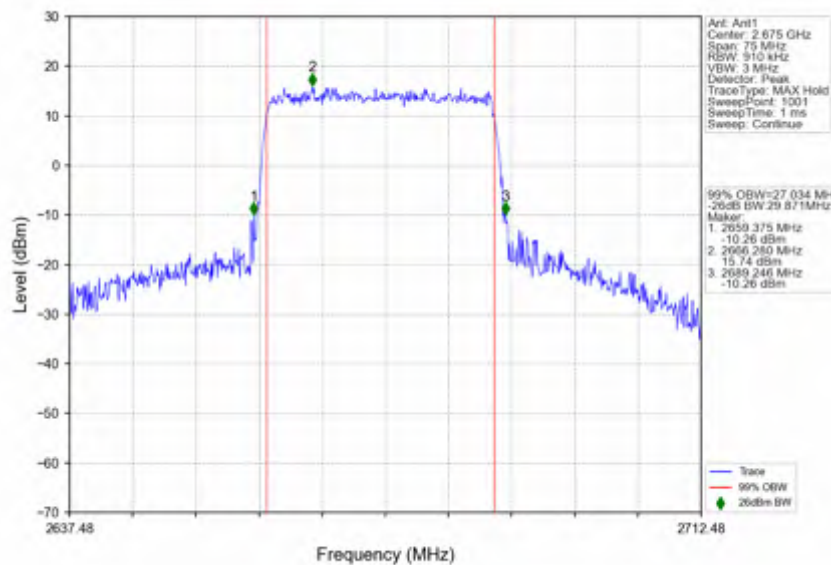


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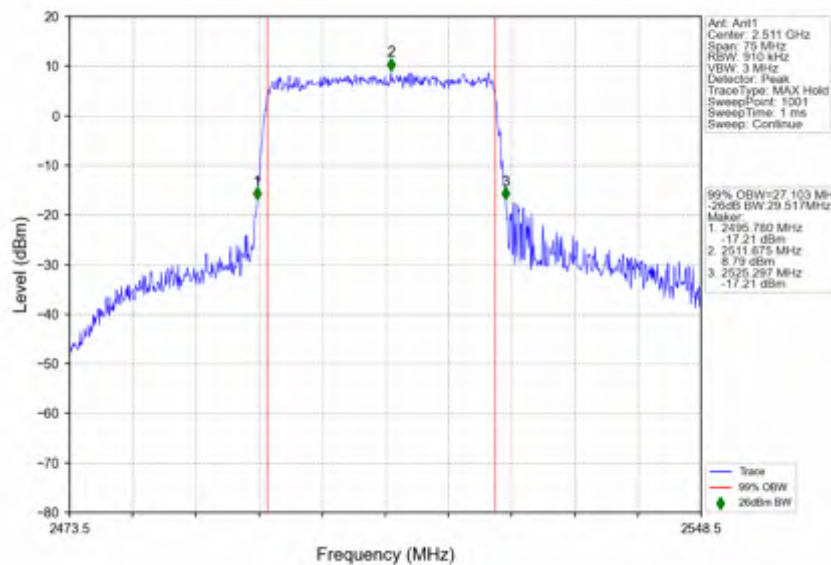
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n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_16_QAM_2674.98MHz_Outer_Full



n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_2511MHz_Outer_Full

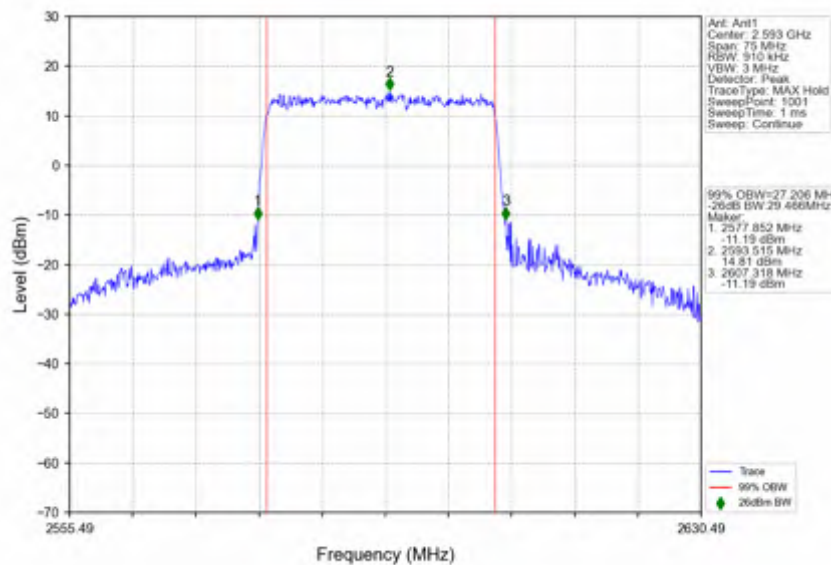


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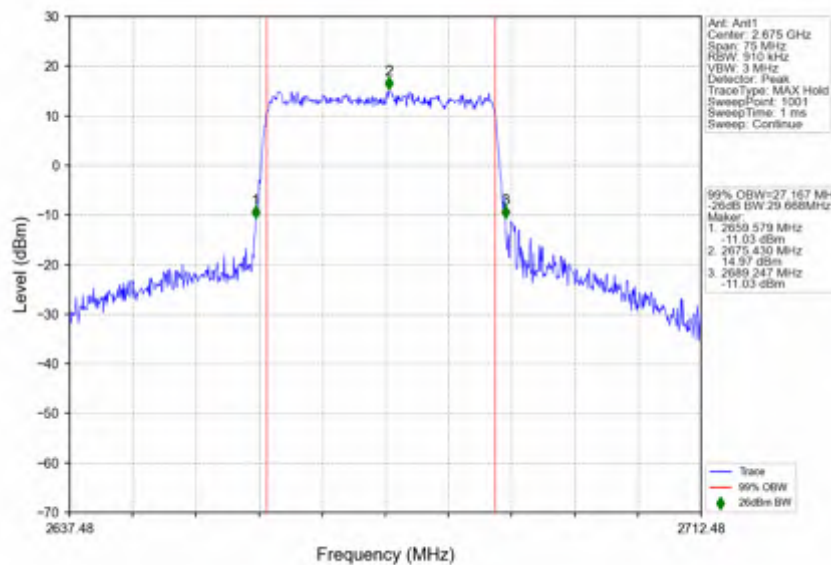
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n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_64_QAM_2674.98MHz_Outer_Full

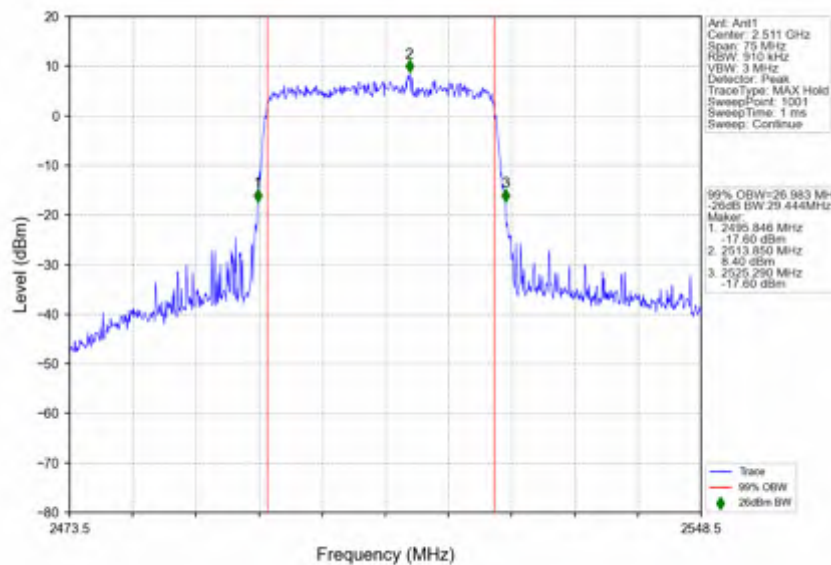


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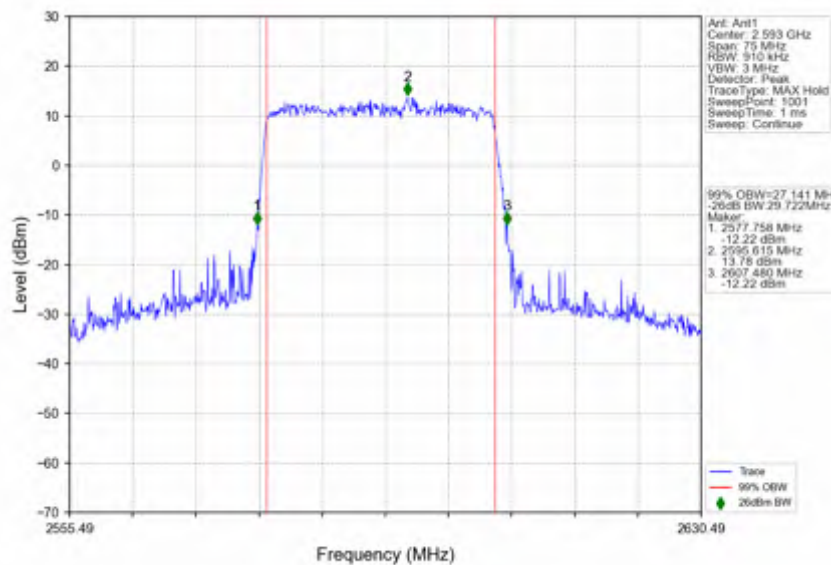
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n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_2592.99MHz_Outer_Full

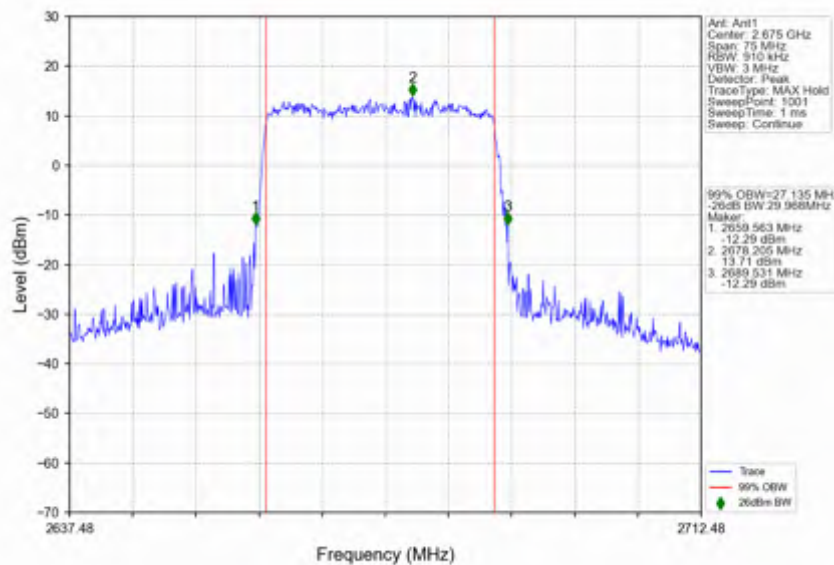


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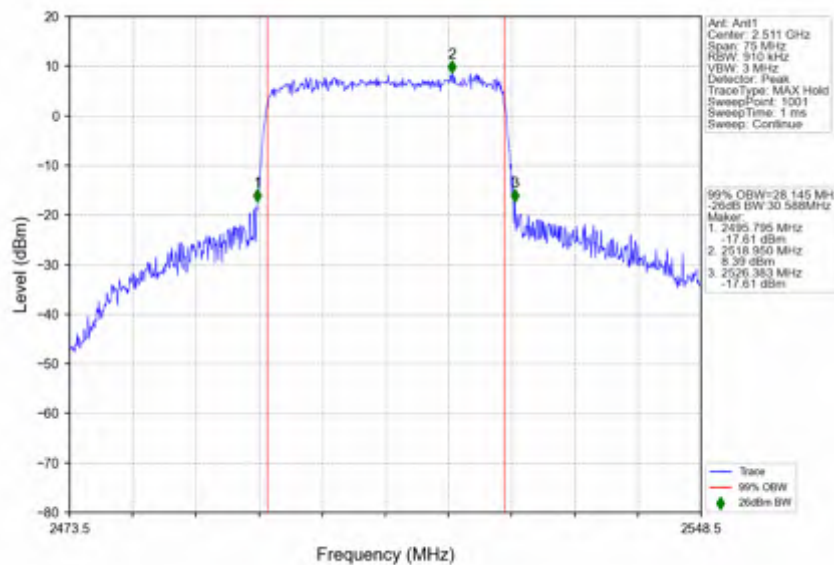
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n41_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM 256 QAM_2674.98MHz_Outer_Full



n41_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_2511MHz_Outer_Full



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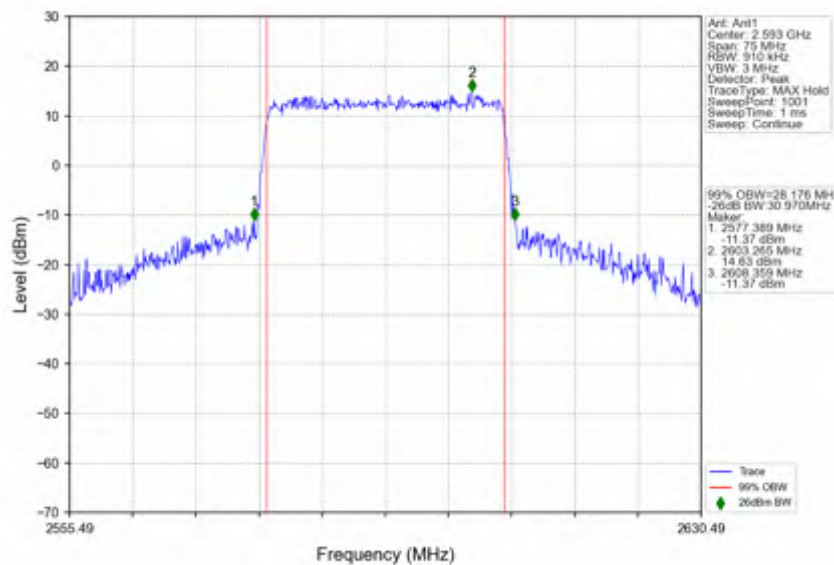
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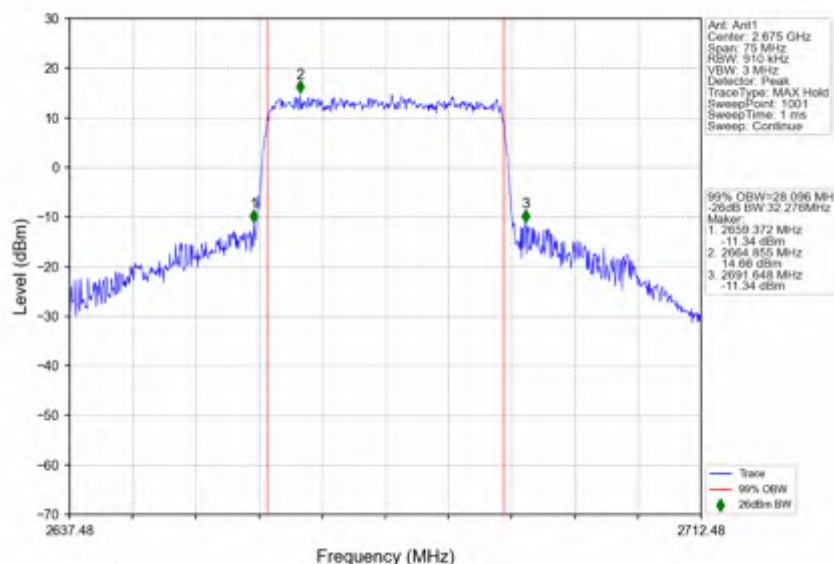
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n41_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_2674.98MHz_Outer_Full



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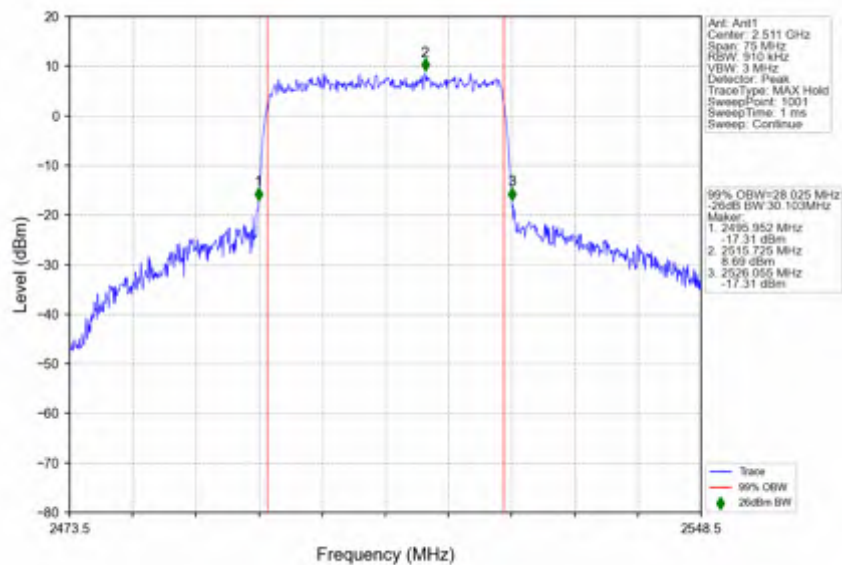
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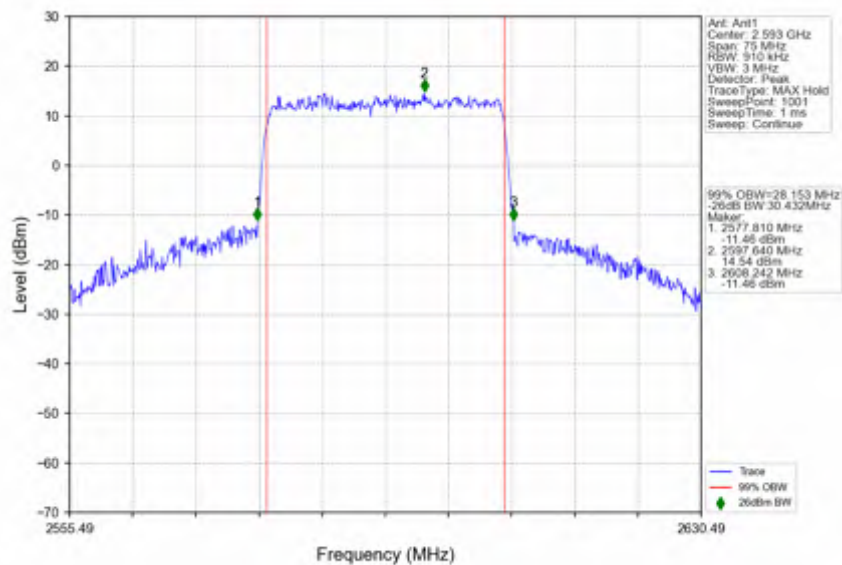
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n41_30kHz_SISO_NTNV_30MHz_CP-OFDM_16_QAM_2511MHz_Outer_Full



n41	30kHz	SISO	NTNV	30MHz	CP-OFDM	16 QAM	2592.99MHz	Outer	Full
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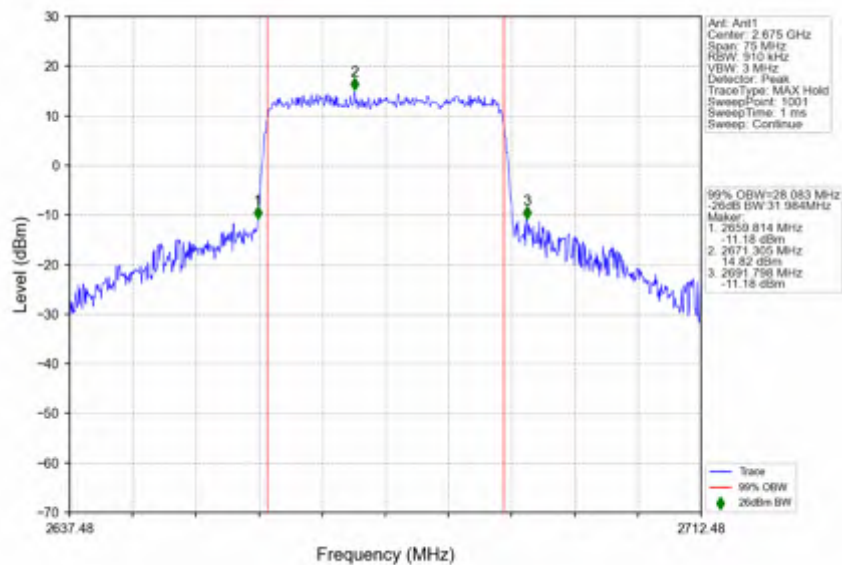


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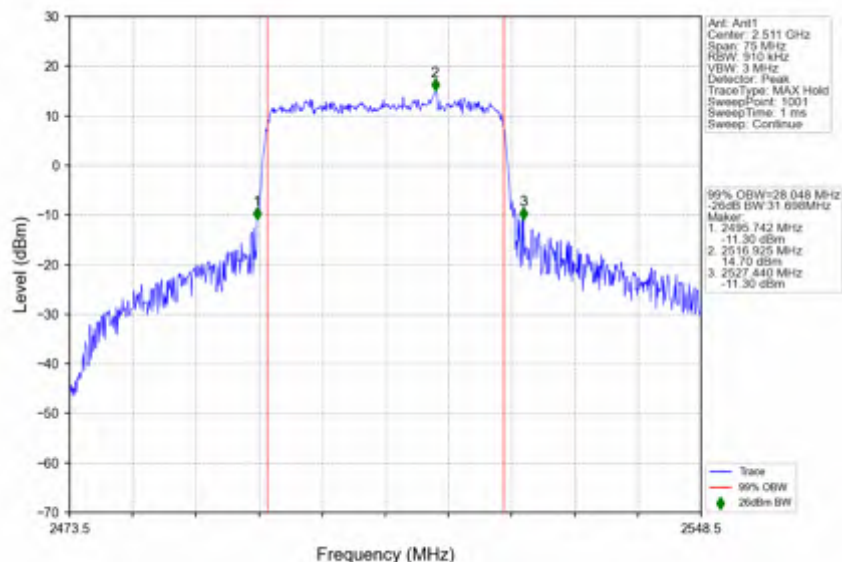
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n41	30kHz	SISO	NTNV	30MHz	CP-OFDM	16 QAM	2674.98MHz	Outer	Full
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n41	30kHz	SISO	NTNV	30MHz	CP-OFDM	64 QAM	2511MHz	Outer	Full
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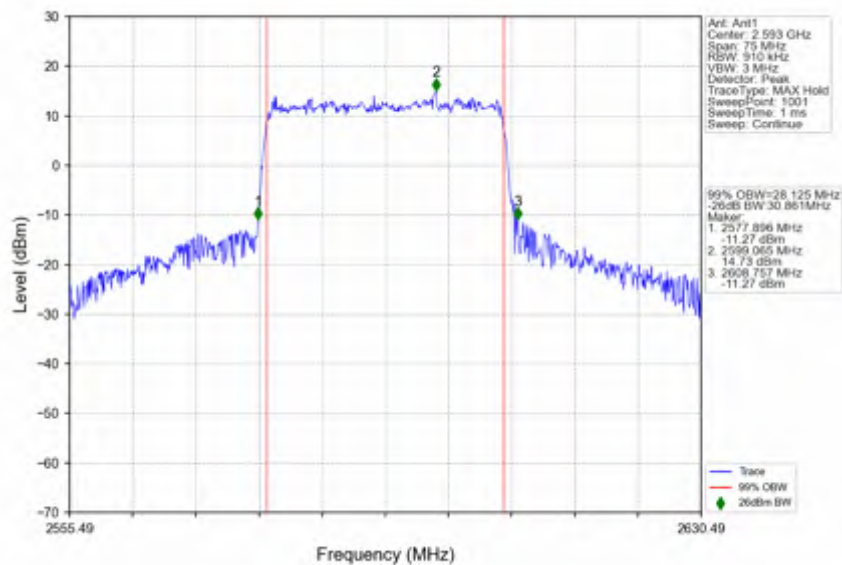


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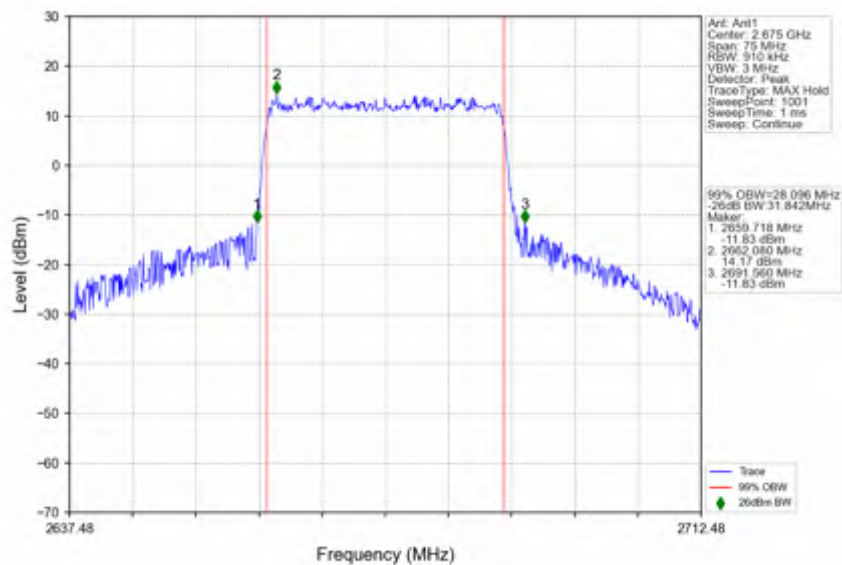
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n41_30kHz_SISO_NTNV_30MHz_CP-OFDM_64_QAM_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_30MHz_CP-OFDM_64_QAM_2674.98MHz_Outer_Full



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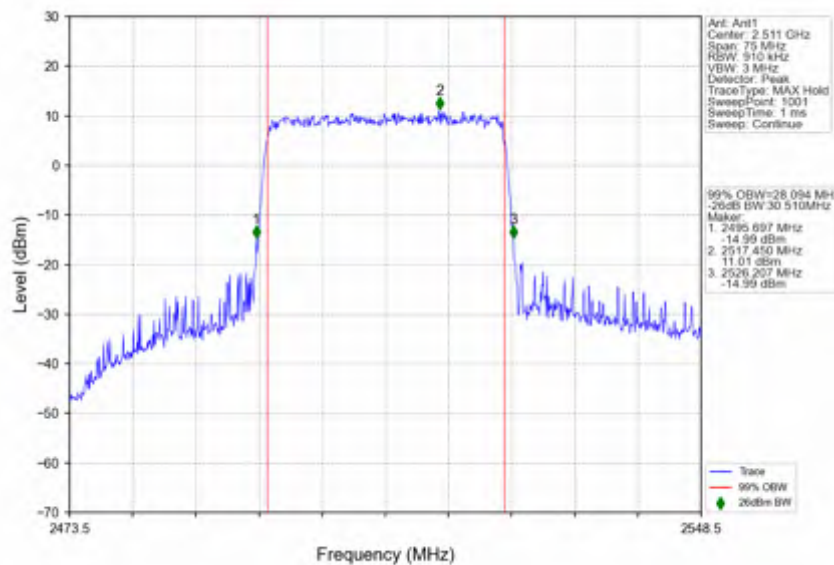
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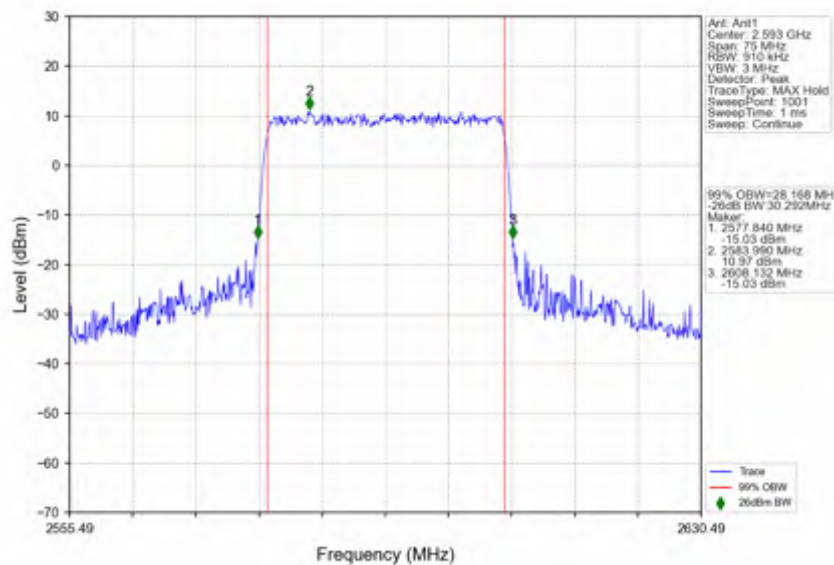
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n41	30kHz	SISO	NTNV	30MHz	CP-OFDM	256 QAM	2511MHz	Outer	Full
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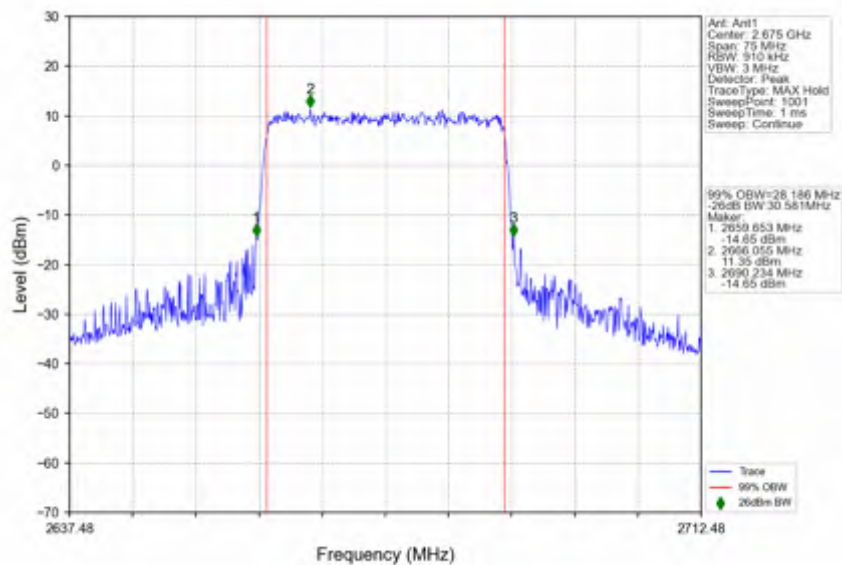


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6.11 30k_SISO_40MHz_NTNV

6.11.1 Test Result

5G NR n41 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	2516.01	Outer_Full	35.98	38.84	/	Pass
	2592.99	Outer_Full	36.04	38.93	/	Pass
	2670	Outer_Full	36.10	38.80	/	Pass
DFT-s-OFDM QPSK	2516.01	Outer_Full	36.08	39.33	/	Pass
	2592.99	Outer_Full	36.13	39.58	/	Pass
	2670	Outer_Full	36.04	39.35	/	Pass
DFT-s-OFDM 16 QAM	2516.01	Outer_Full	35.99	38.89	/	Pass
	2592.99	Outer_Full	36.09	39.34	/	Pass
	2670	Outer_Full	36.18	39.15	/	Pass
DFT-s-OFDM 64 QAM	2516.01	Outer_Full	36.07	39.19	/	Pass
	2592.99	Outer_Full	36.12	38.90	/	Pass
	2670	Outer_Full	36.10	39.24	/	Pass
DFT-s-OFDM 256 QAM	2516.01	Outer_Full	36.08	39.13	/	Pass
	2592.99	Outer_Full	36.25	39.36	/	Pass
	2670	Outer_Full	36.09	39.20	/	Pass
CP-OFDM QPSK	2516.01	Outer_Full	38.12	41.23	/	Pass
	2592.99	Outer_Full	38.28	42.04	/	Pass
	2670	Outer_Full	38.15	41.41	/	Pass
CP-OFDM 16 QAM	2516.01	Outer_Full	38.04	41.17	/	Pass
	2592.99	Outer_Full	38.22	41.31	/	Pass
	2670	Outer_Full	38.10	41.17	/	Pass
CP-OFDM 64 QAM	2516.01	Outer_Full	38.14	40.80	/	Pass
	2592.99	Outer_Full	38.20	40.86	/	Pass
	2670	Outer_Full	38.18	40.73	/	Pass
CP-OFDM 256 QAM	2516.01	Outer_Full	38.10	42.19	/	Pass
	2592.99	Outer_Full	38.05	43.54	/	Pass
	2670	Outer_Full	38.10	40.89	/	Pass



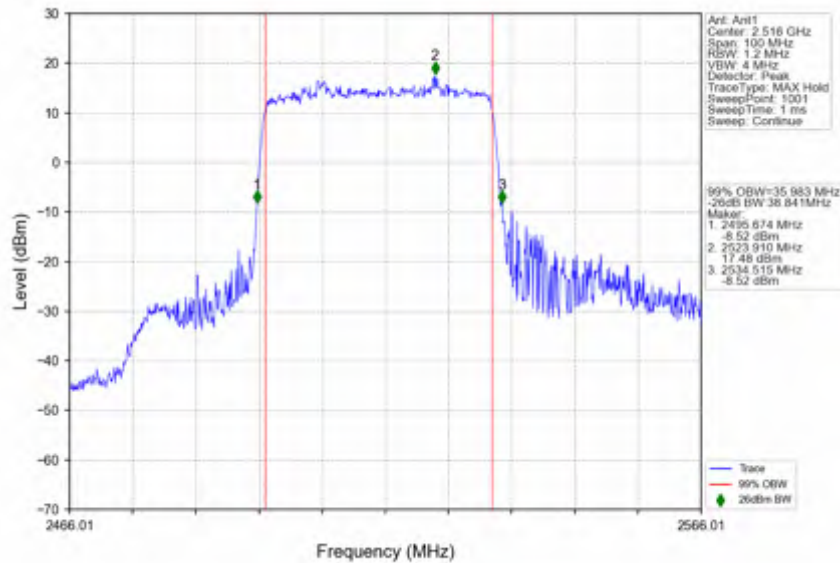
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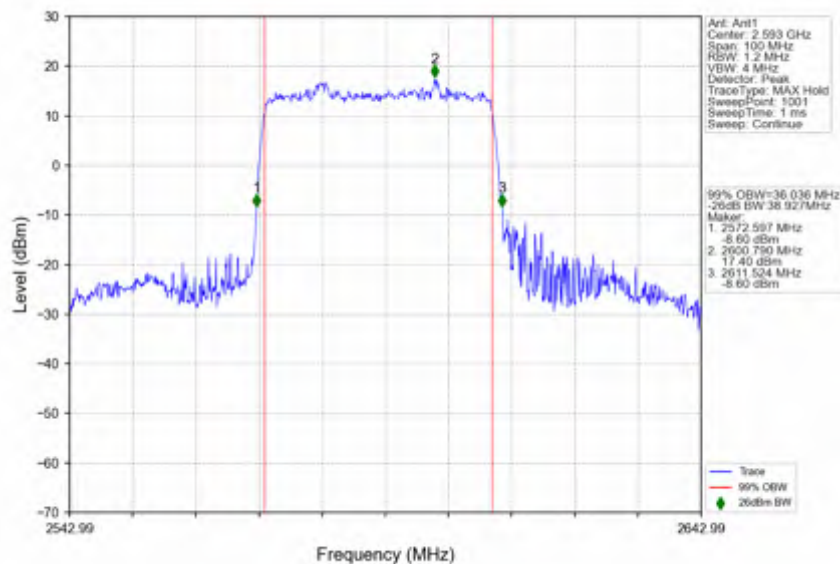
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6.11.2 Test Graph

n41_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_PI/2_BPSK_2516.01MHz_Outer_Full



n41_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_PI/2_BPSK_2592.99MHz_Outer_Full



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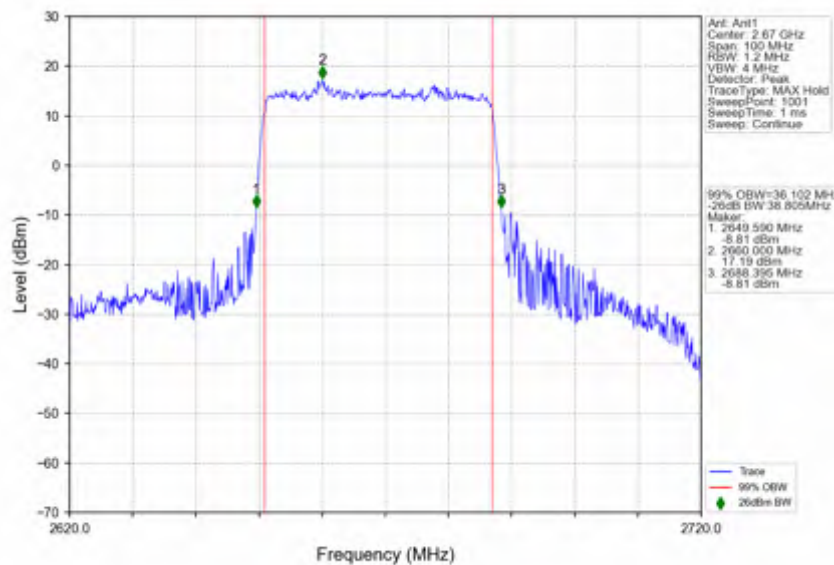
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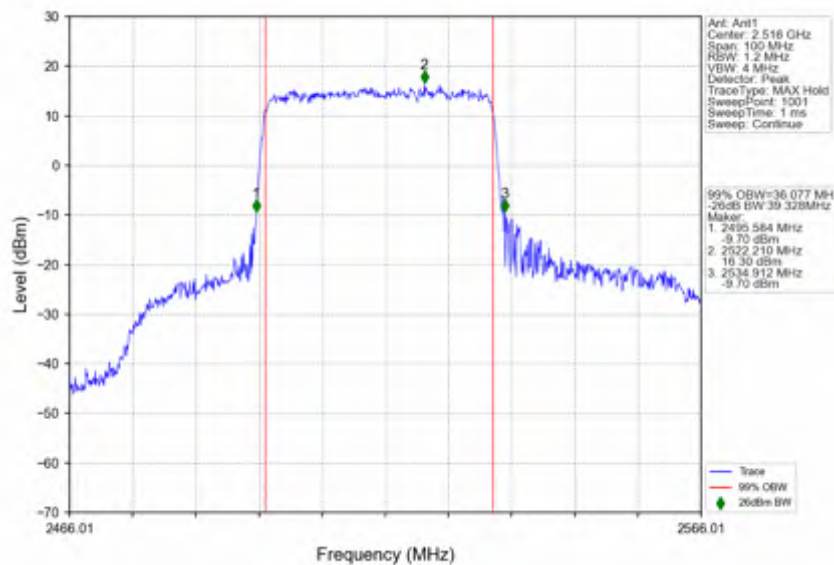
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n41_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM PI/2 BPSK_2670MHz_Outer_Full



n41_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_2516.01MHz_Outer_Full



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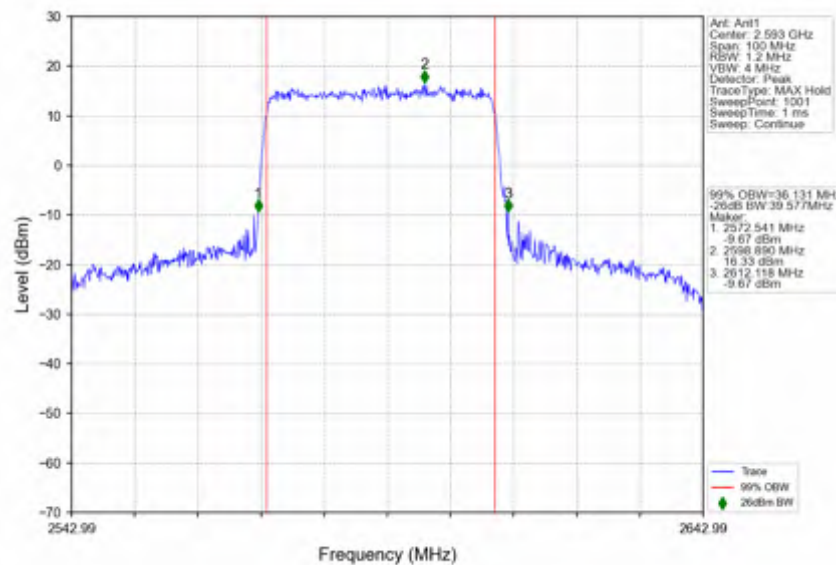
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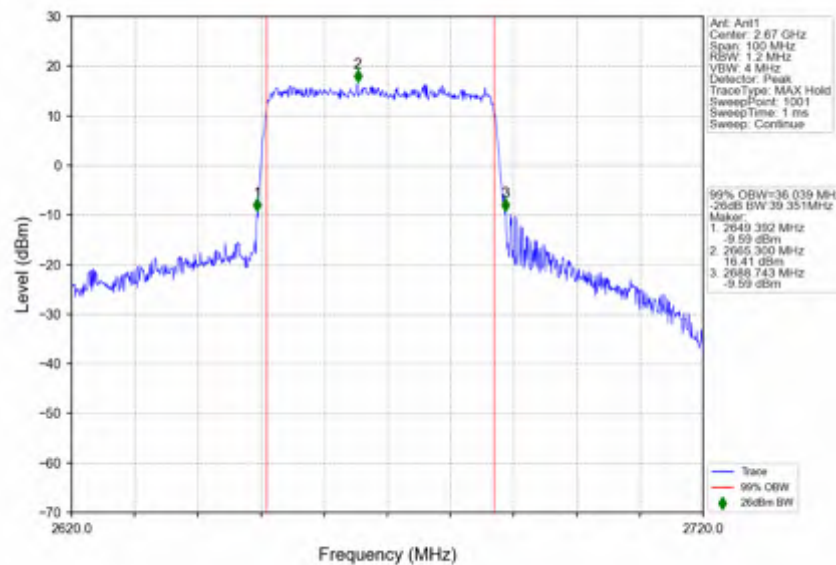
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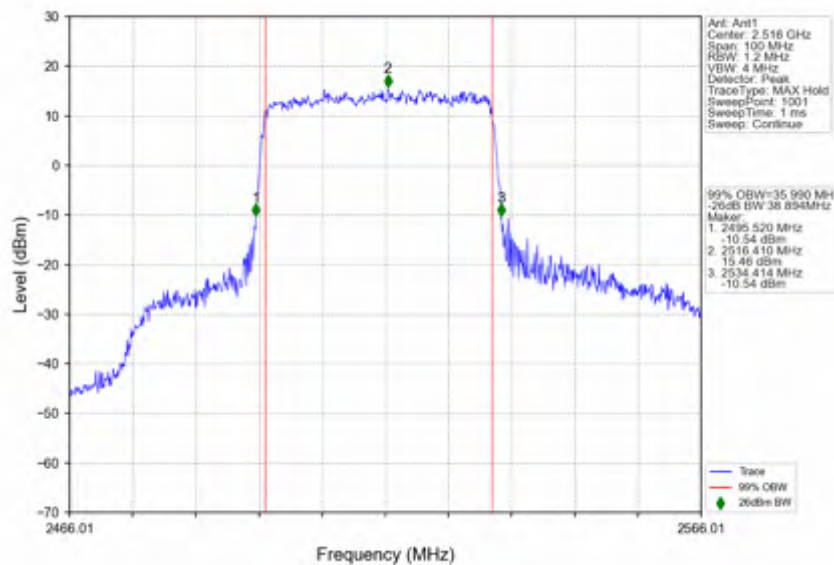
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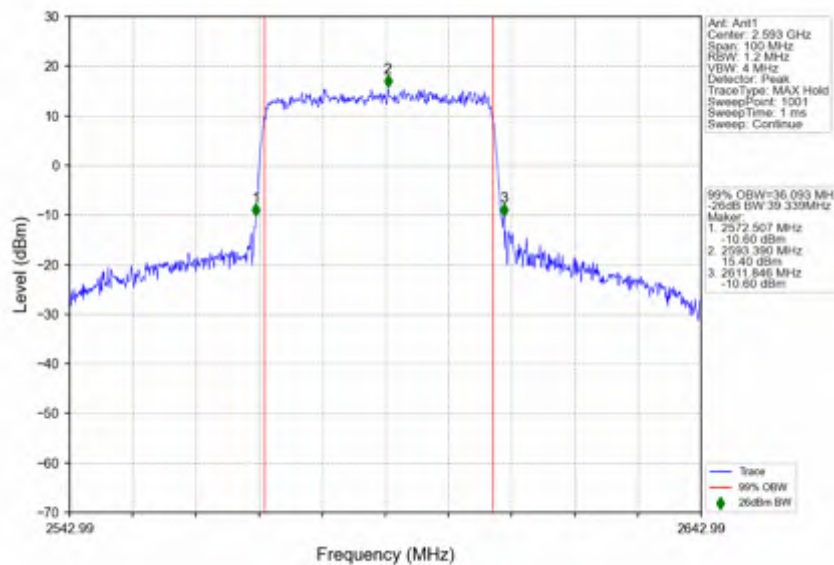
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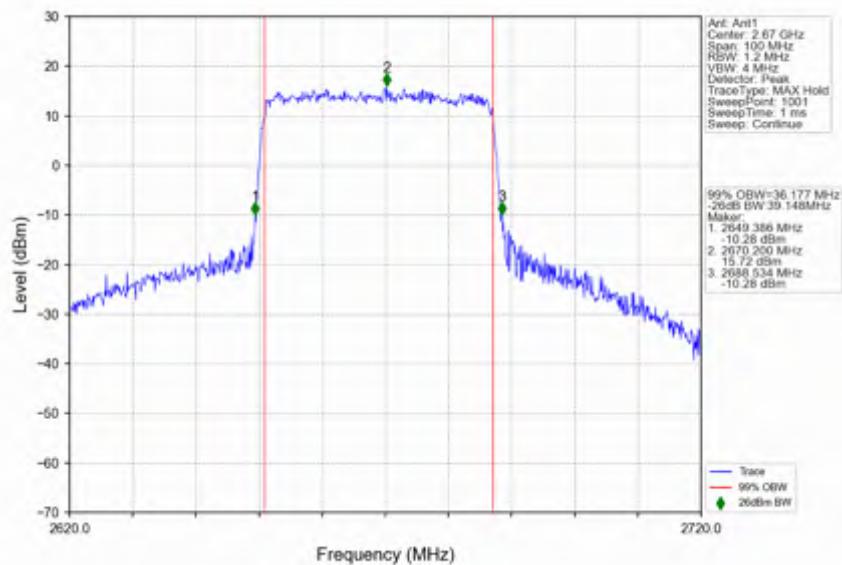
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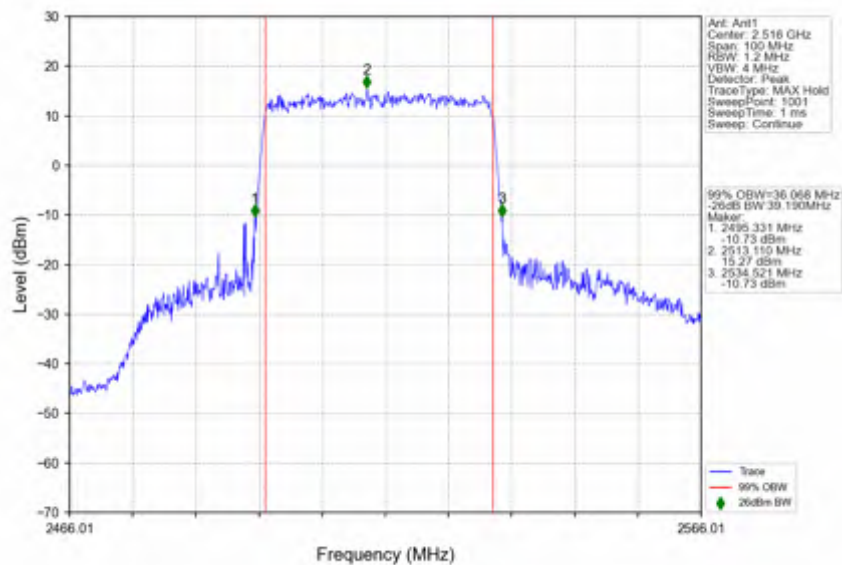
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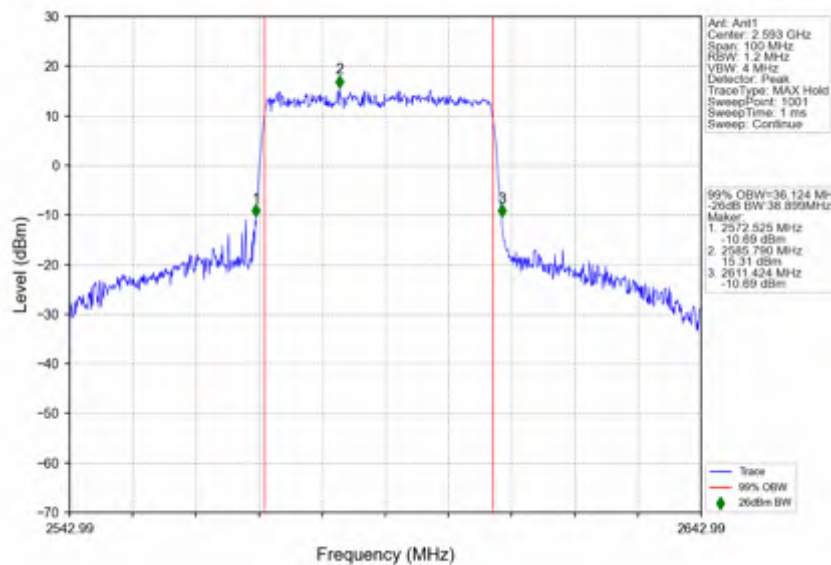
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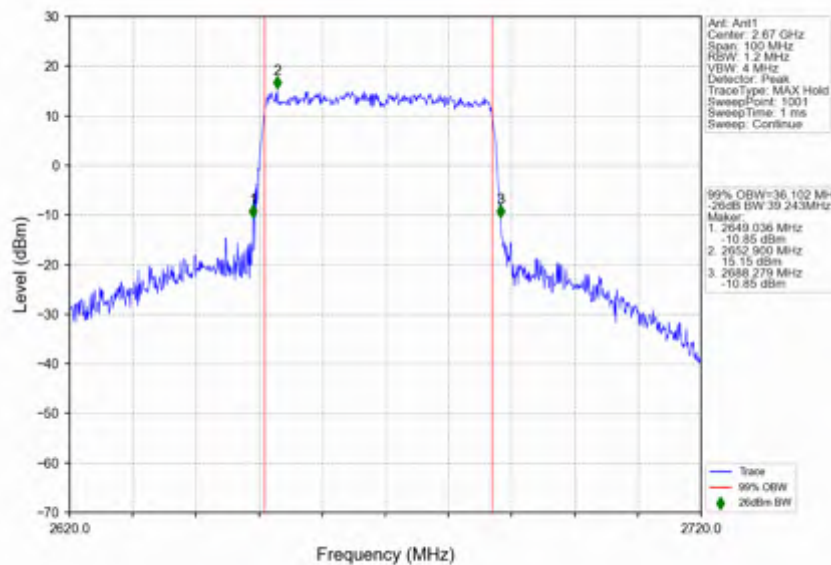
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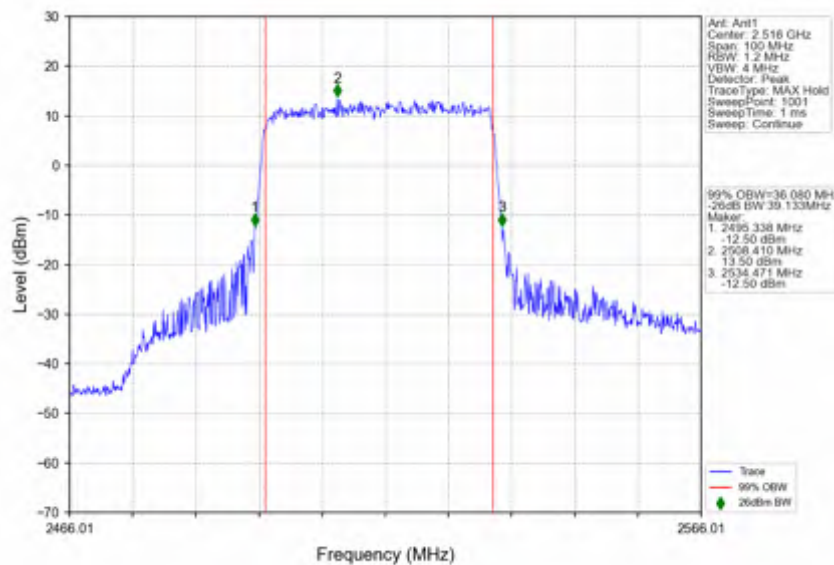
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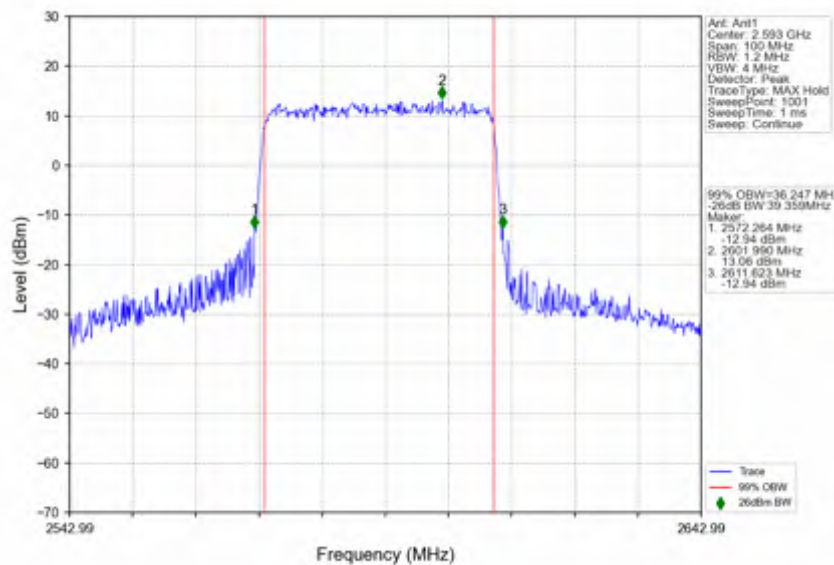
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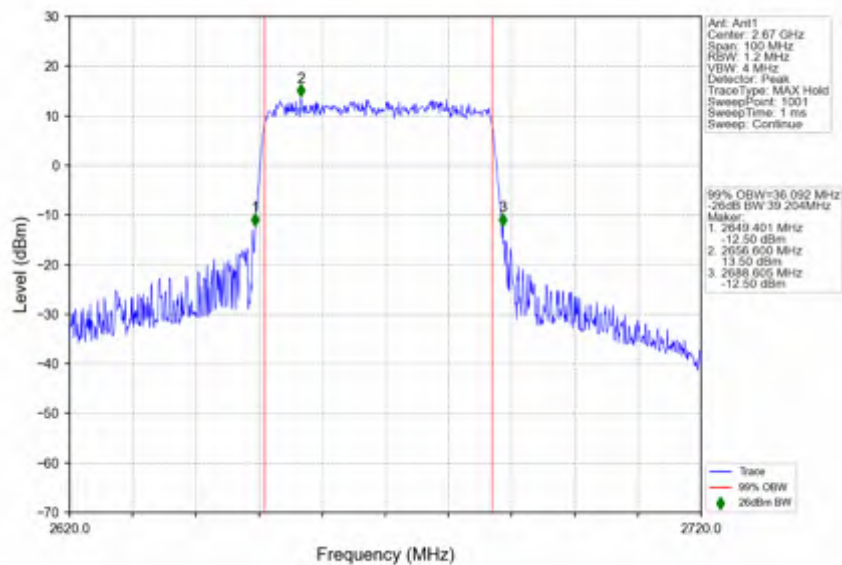
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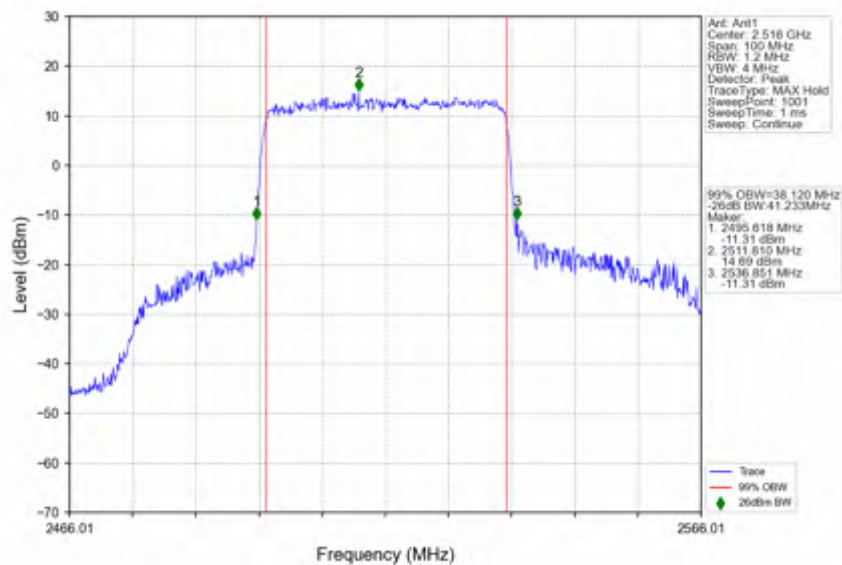
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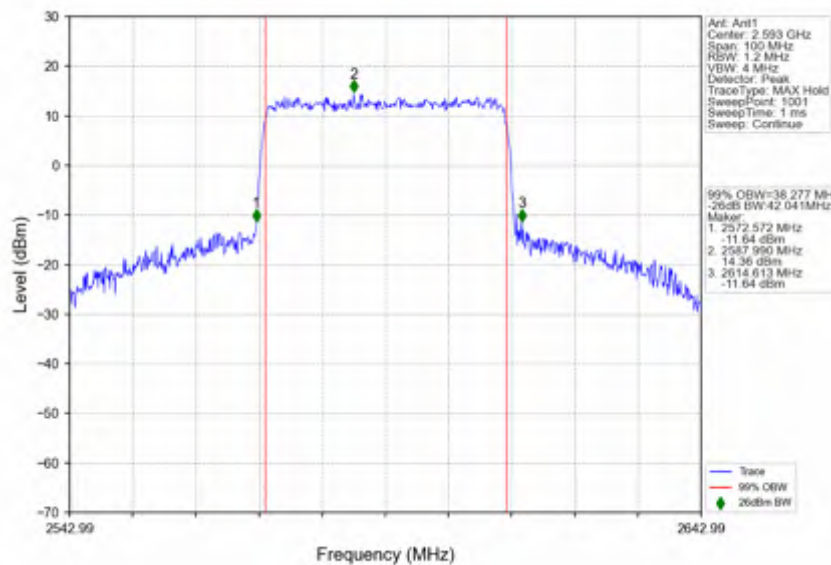


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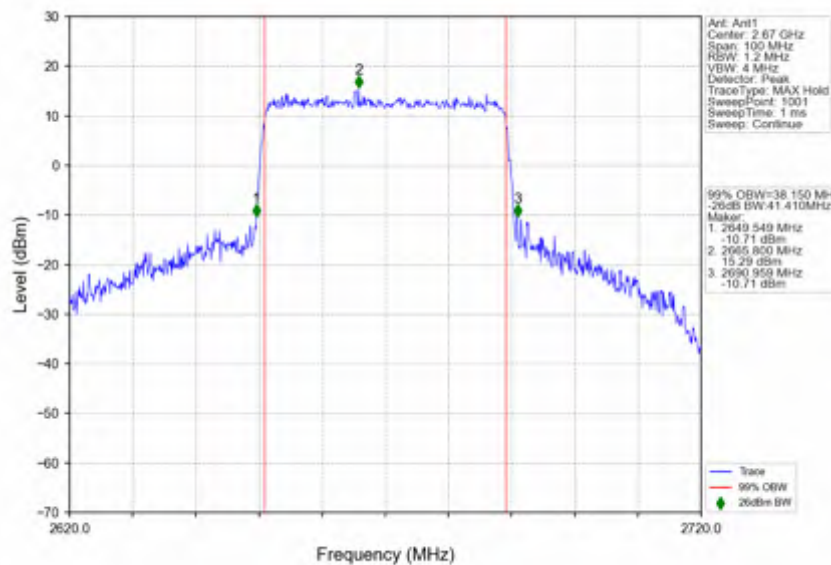
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n41_30kHz_SISO_NTNV_40MHz_CP-OFDM_QPSK_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTV_40MHz_CP-OFDM_QPSK_2670MHz_Outer_Full

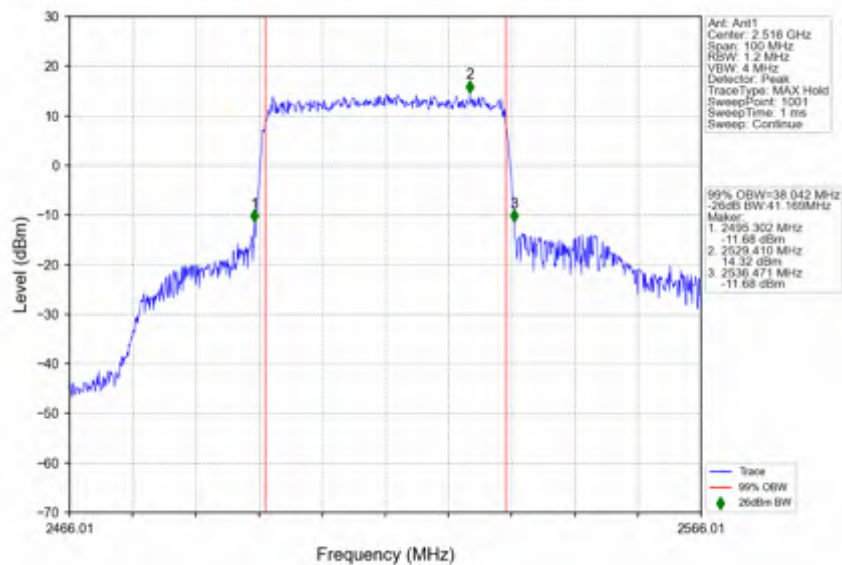


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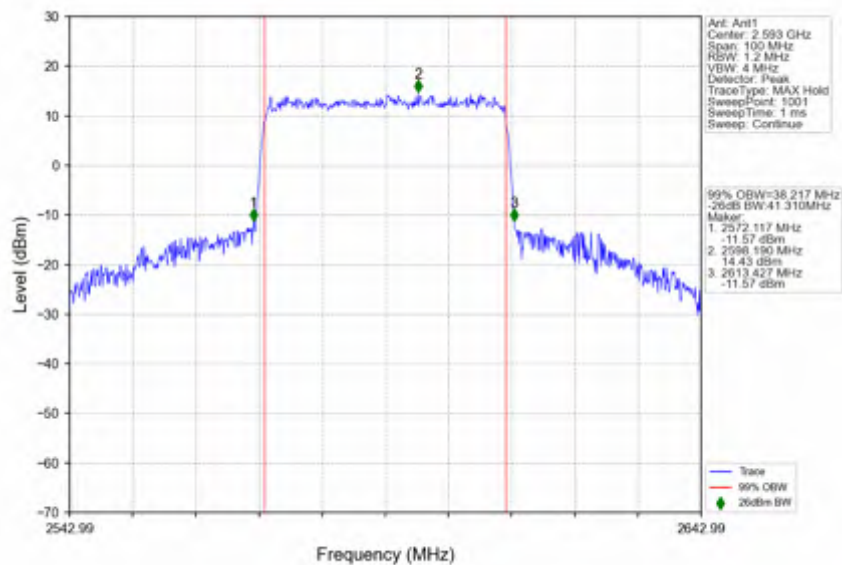
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n41_30kHz_SISO_NTNV_40MHz_CP-OFDM_16_QAM_2516.01MHz_Outer_Full



n41_30kHz_SISO_NTNV_40MHz_CP-OFDM_16_QAM_2592.99MHz_Outer_Full



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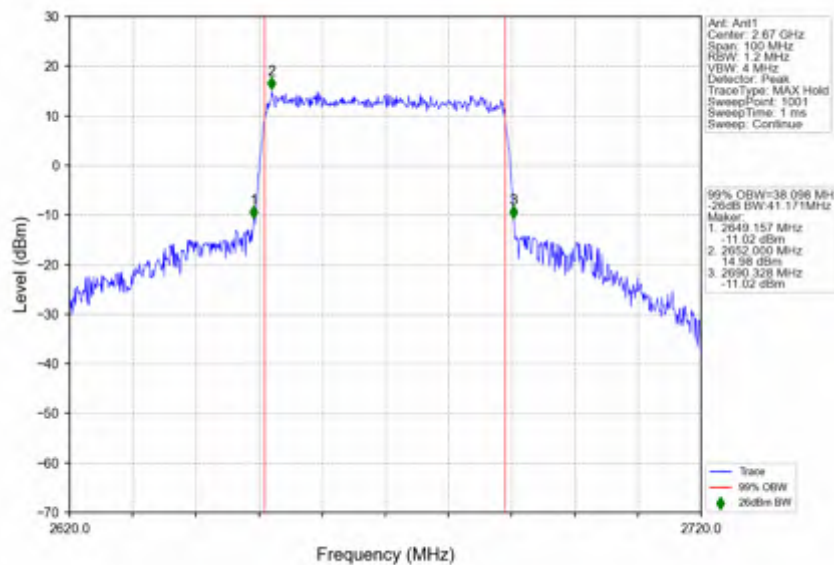
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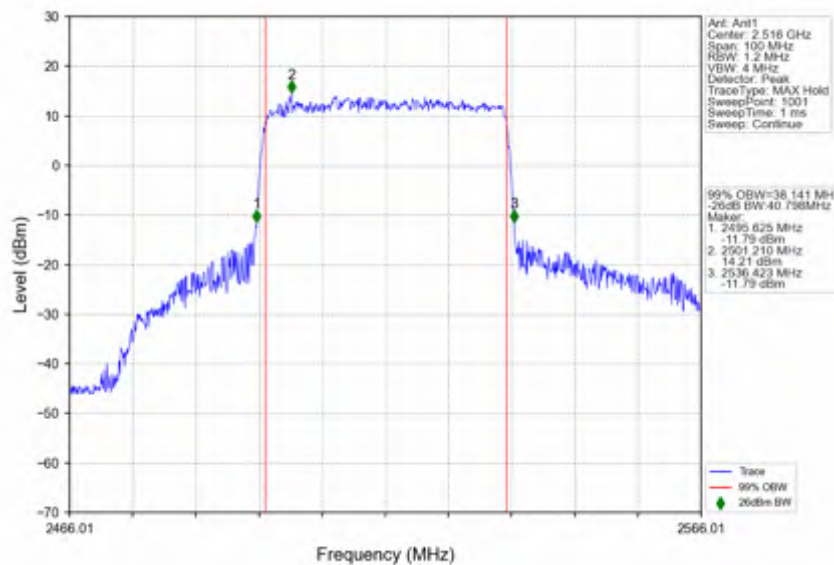
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n41_30kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_2670MHz_Outer_Full



n41_30kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_2516.01MHz_Outer_Full



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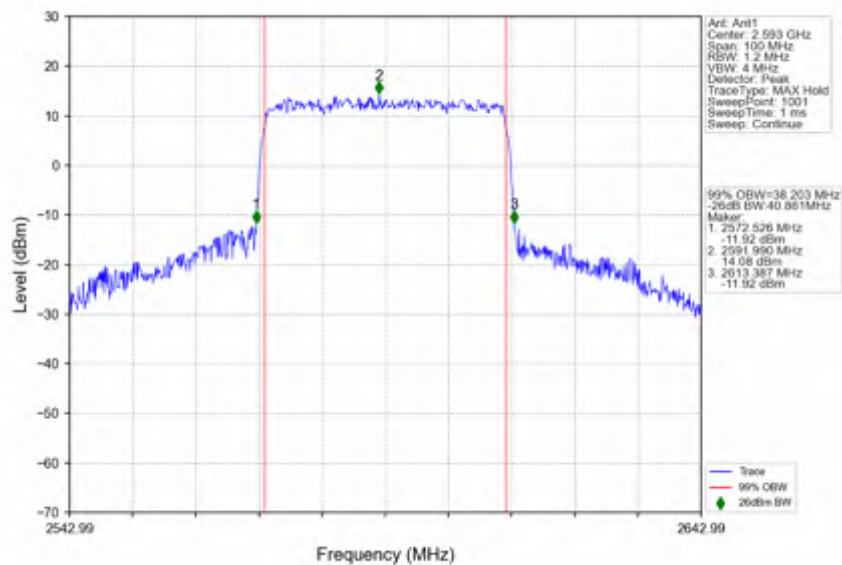
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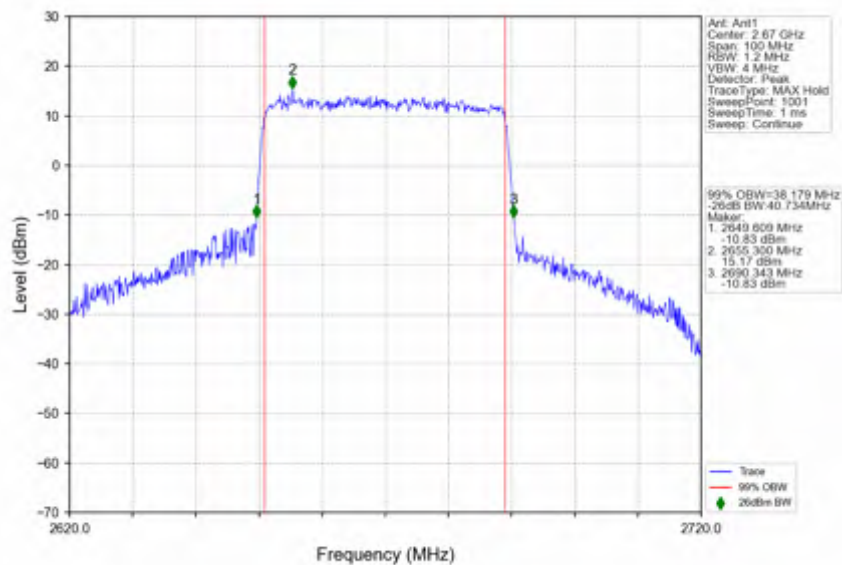
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n41	30kHz	SISO	NTNV	40MHz	CP-OFDM	64 QAM	2592.99MHz	Outer	Full
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n41_30kHz_SISO_NTNV_40MHz_CP-OFDM_64_QAM_2670MHz_Outer_Full

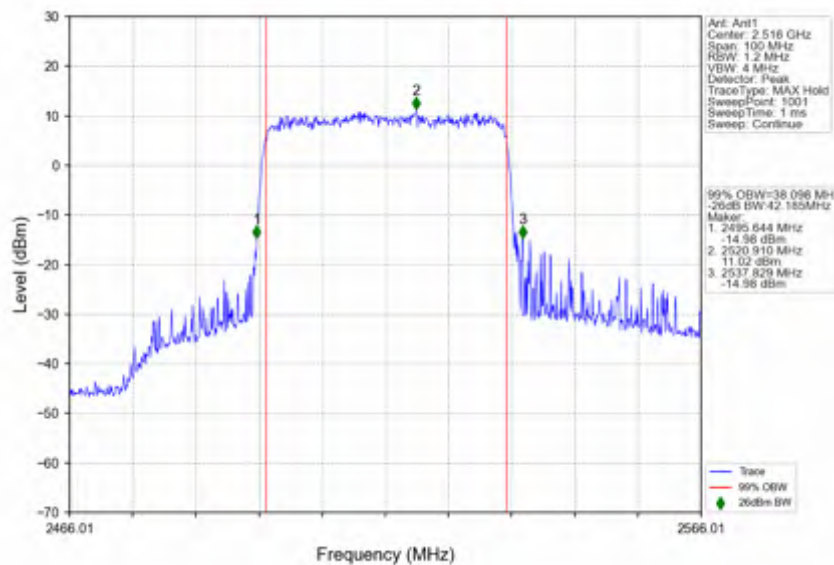


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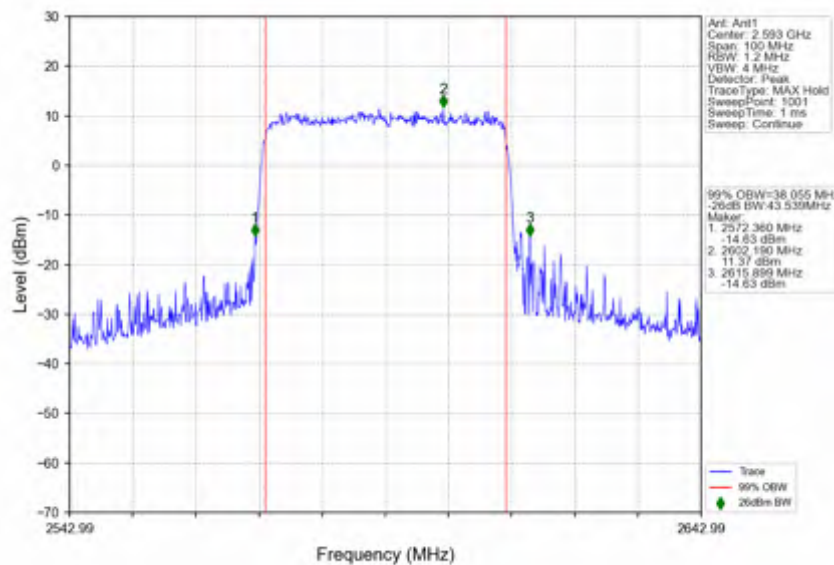
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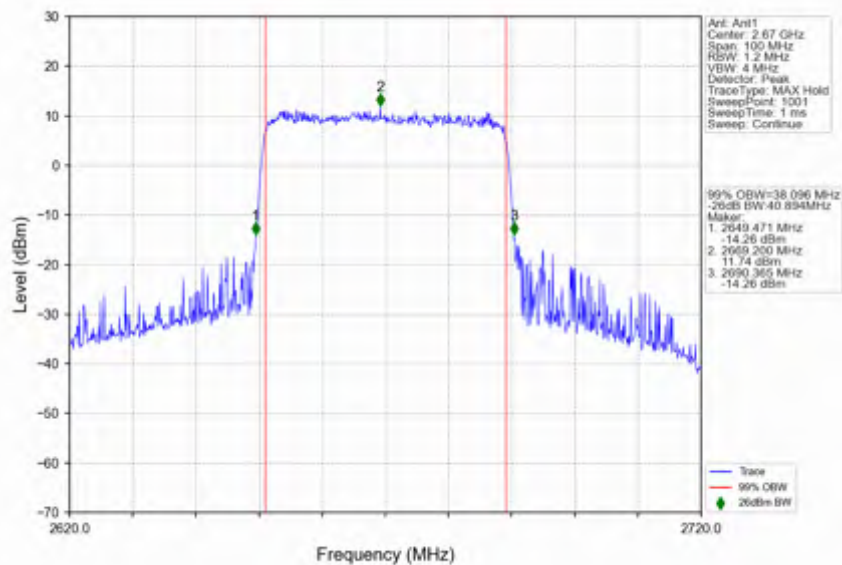


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n41_30kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_2670MHz_Outer_Full



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6.12 30k_SISO_50MHz_NTNV

6.12.1 Test Result

5G NR n41 SCS=30kHz SISO 50MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2521.02	Outer_Full	46.13	50.45	/	Pass
	2592.99	Outer_Full	46.30	50.77	/	Pass
	2664.99	Outer_Full	46.15	50.07	/	Pass
DFT-s-OFDM QPSK	2521.02	Outer_Full	46.12	50.39	/	Pass
	2592.99	Outer_Full	46.26	51.13	/	Pass
	2664.99	Outer_Full	46.19	50.61	/	Pass
DFT-s-OFDM 16 QAM	2521.02	Outer_Full	45.99	49.57	/	Pass
	2592.99	Outer_Full	46.27	50.23	/	Pass
	2664.99	Outer_Full	46.16	49.85	/	Pass
DFT-s-OFDM 64 QAM	2521.02	Outer_Full	46.02	49.70	/	Pass
	2592.99	Outer_Full	46.14	49.49	/	Pass
	2664.99	Outer_Full	46.17	49.71	/	Pass
DFT-s-OFDM 256 QAM	2521.02	Outer_Full	46.08	49.37	/	Pass
	2592.99	Outer_Full	46.36	49.90	/	Pass
	2664.99	Outer_Full	46.33	49.56	/	Pass
CP-OFDM QPSK	2521.02	Outer_Full	47.86	51.21	/	Pass
	2592.99	Outer_Full	48.04	51.41	/	Pass
	2664.99	Outer_Full	47.85	51.32	/	Pass
CP-OFDM 16 QAM	2521.02	Outer_Full	47.78	51.18	/	Pass
	2592.99	Outer_Full	48.06	53.33	/	Pass
	2664.99	Outer_Full	47.88	51.23	/	Pass
CP-OFDM 64 QAM	2521.02	Outer_Full	47.80	51.58	/	Pass
	2592.99	Outer_Full	47.99	51.42	/	Pass
	2664.99	Outer_Full	47.94	51.59	/	Pass
CP-OFDM 256 QAM	2521.02	Outer_Full	47.75	51.14	/	Pass
	2592.99	Outer_Full	47.93	51.31	/	Pass
	2664.99	Outer_Full	47.86	51.26	/	Pass



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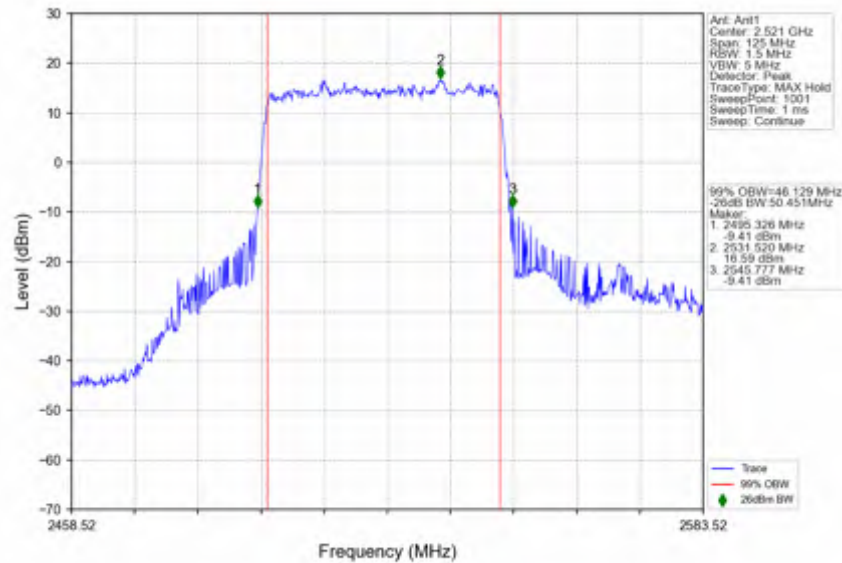
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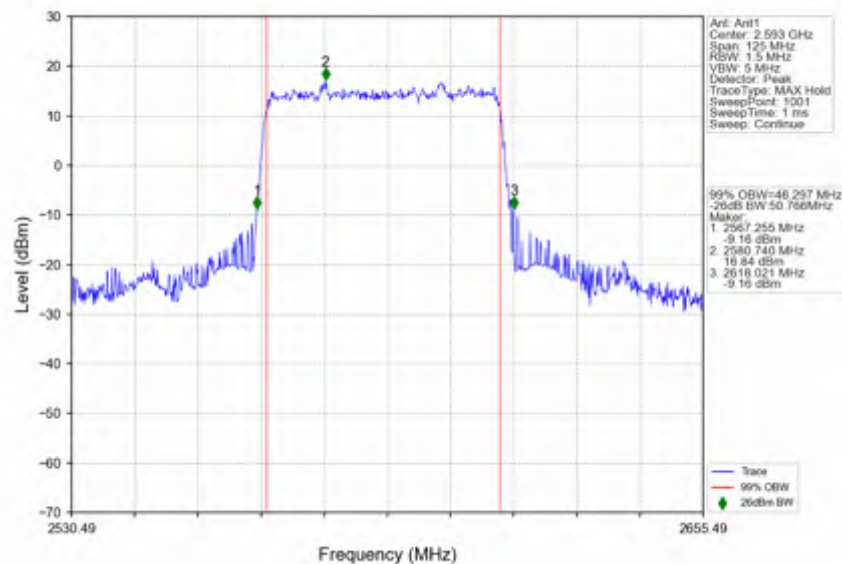
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6.12.2 Test Graph

n41_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_PI/2_BPSK_2521.02MHz_Outer_Full



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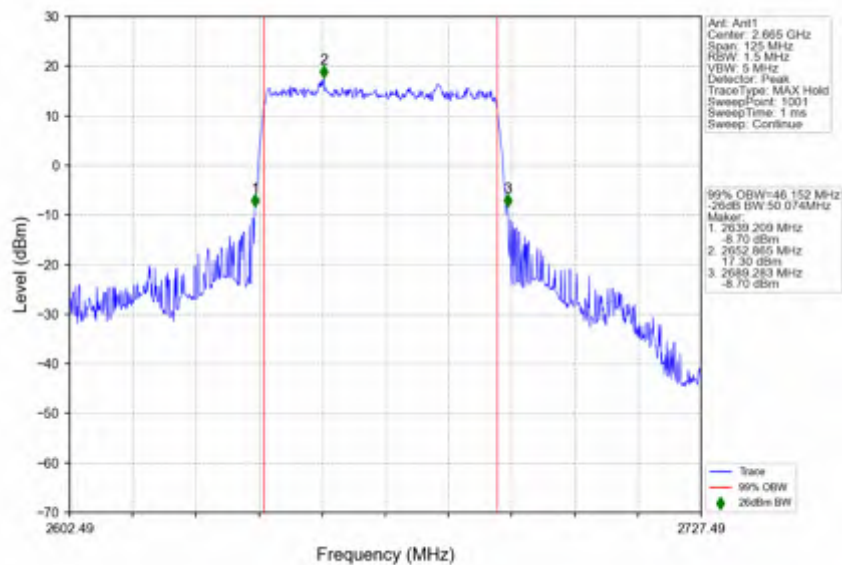


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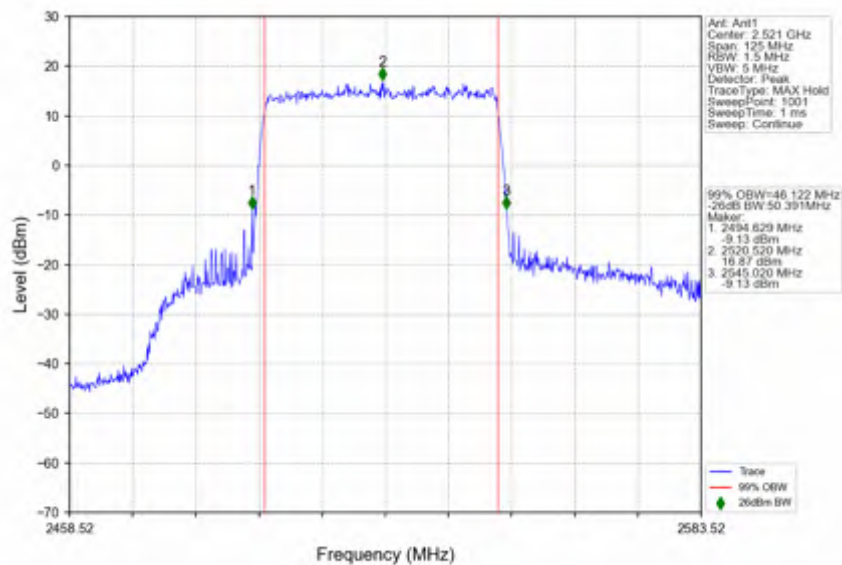
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n41_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_QPSK_2521.02MHz_Outer_Full

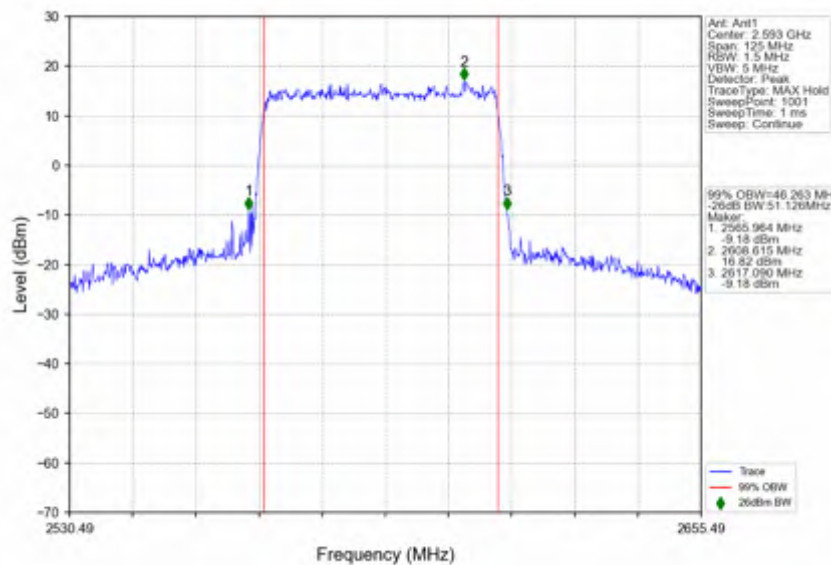


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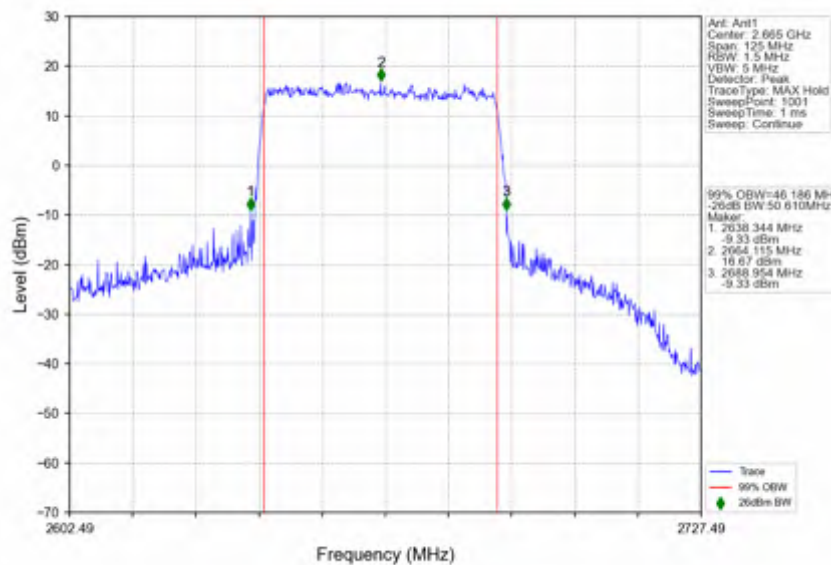
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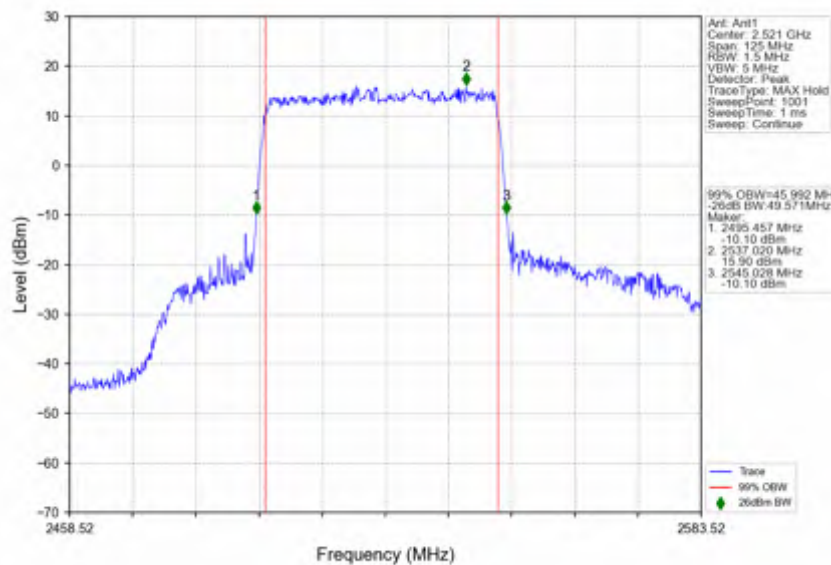
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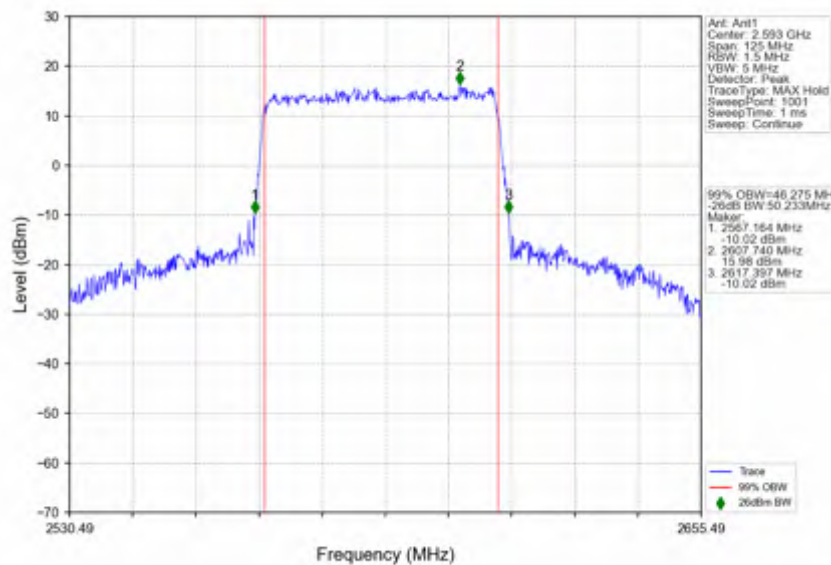
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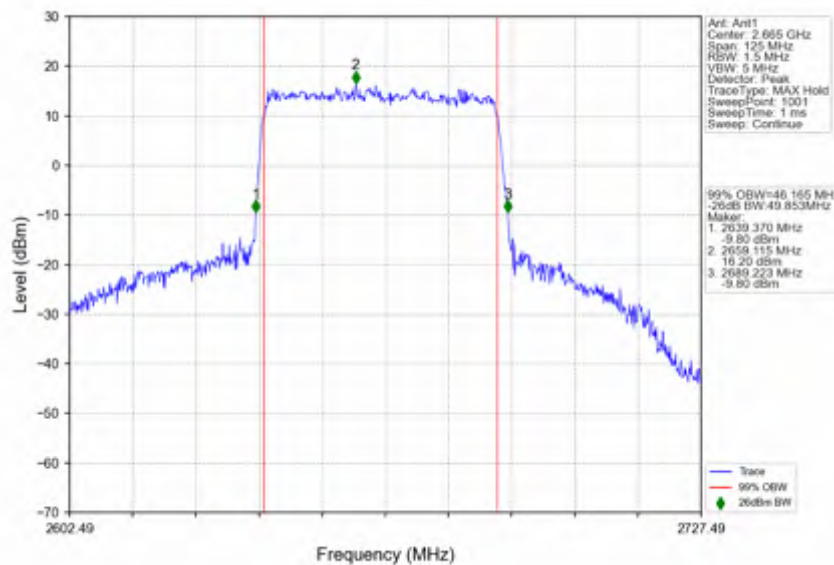


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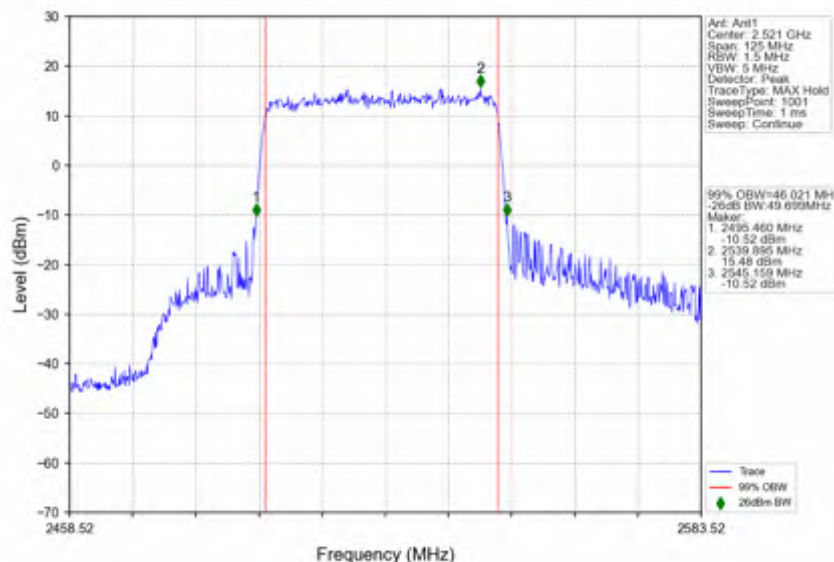
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n41_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_16_QAM_2664.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_64_QAM_2521.02MHz_Outer_Full



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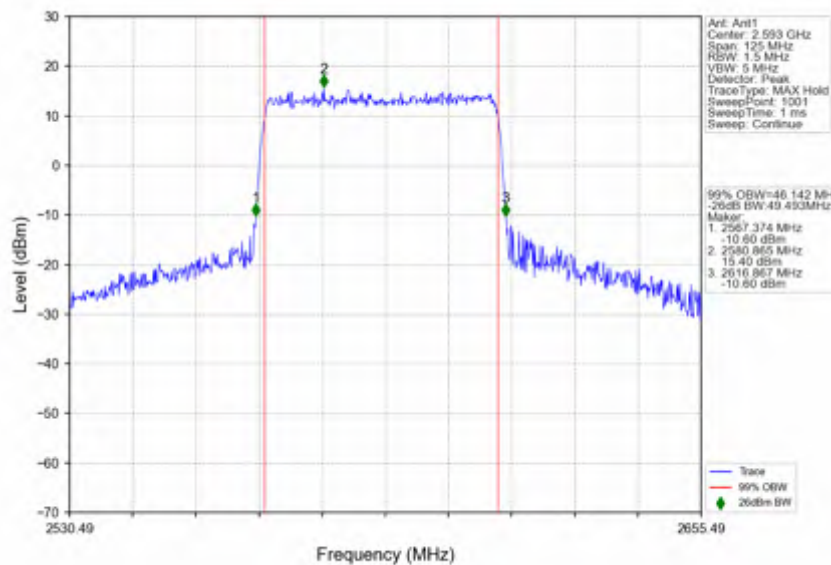
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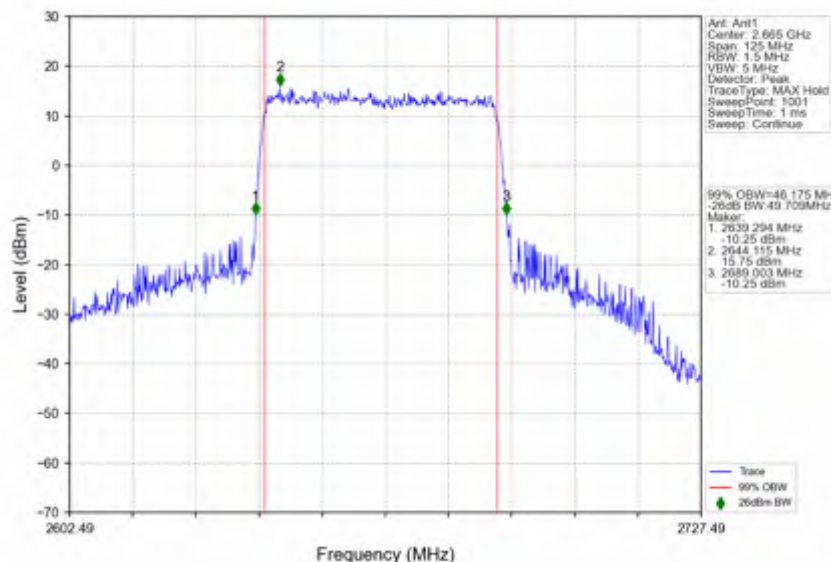
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n41_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_64_QAM_2592.99MHz_Outer_Full



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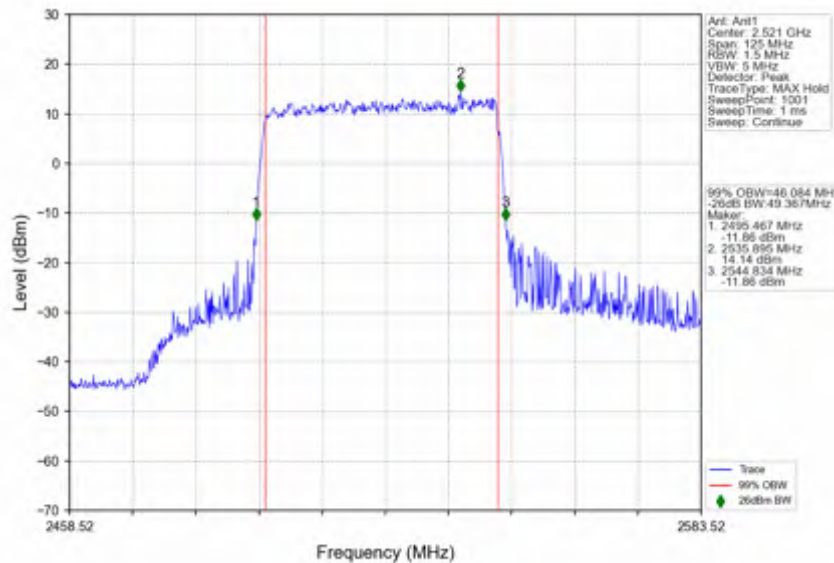
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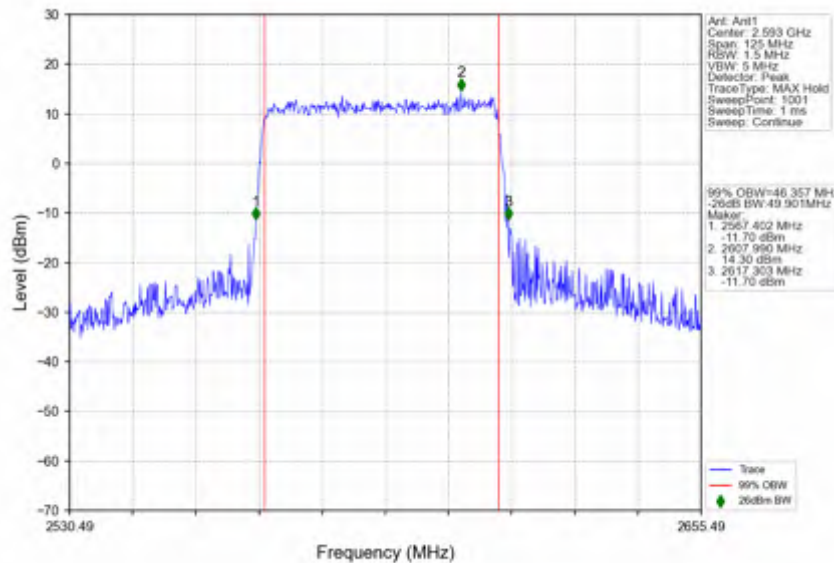
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n41_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_256_QAM_2521.02MHz_Outer_Full



n41_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_256_QAM_2592.99MHz_Outer_Full



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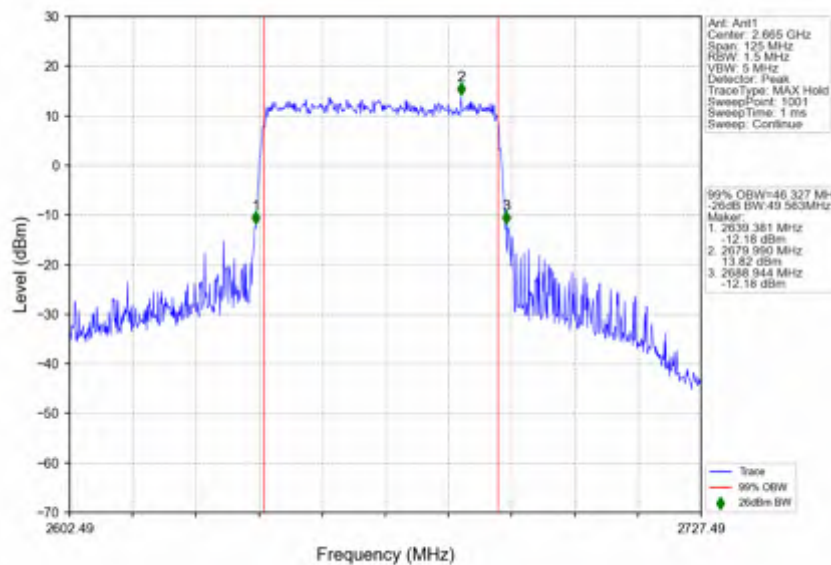
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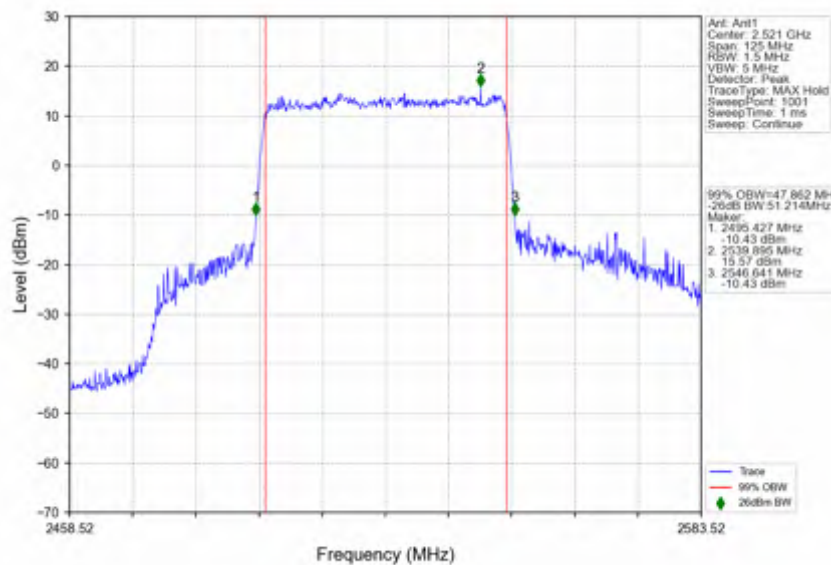
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n41_30kHz_SISO_NTNV_50MHz_CP-OFDM QPSK_2521.02MHz_Outer_Full

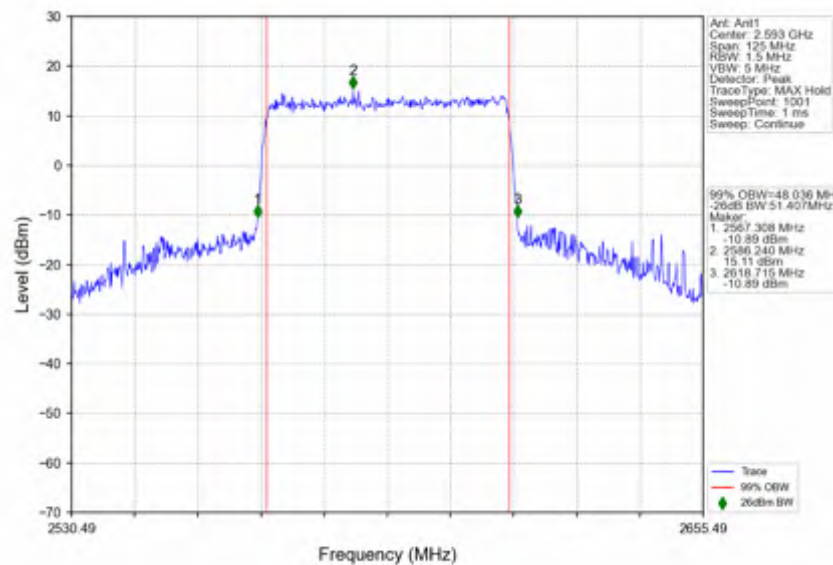


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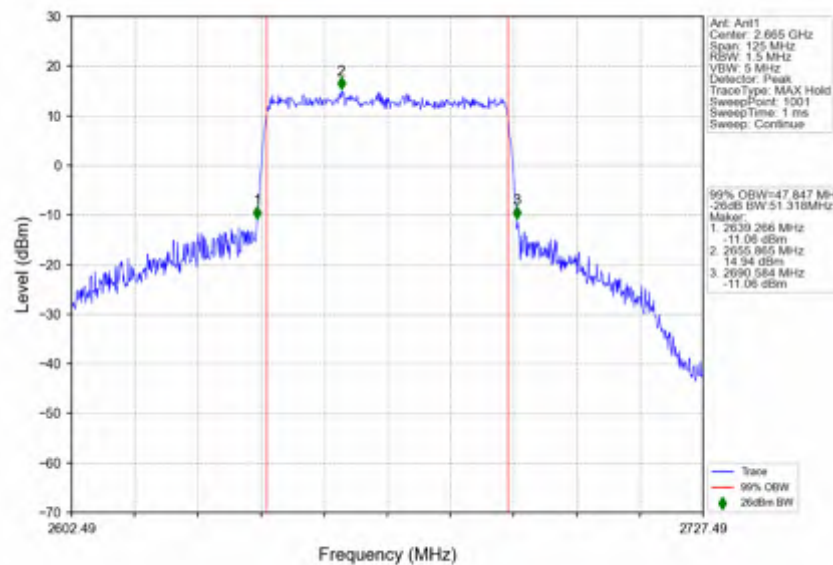
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n41_30kHz_SISO_NTNV_50MHz_CP-OFDM QPSK_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_50MHz_CP-OFDM QPSK_2664.99MHz_Outer_Full



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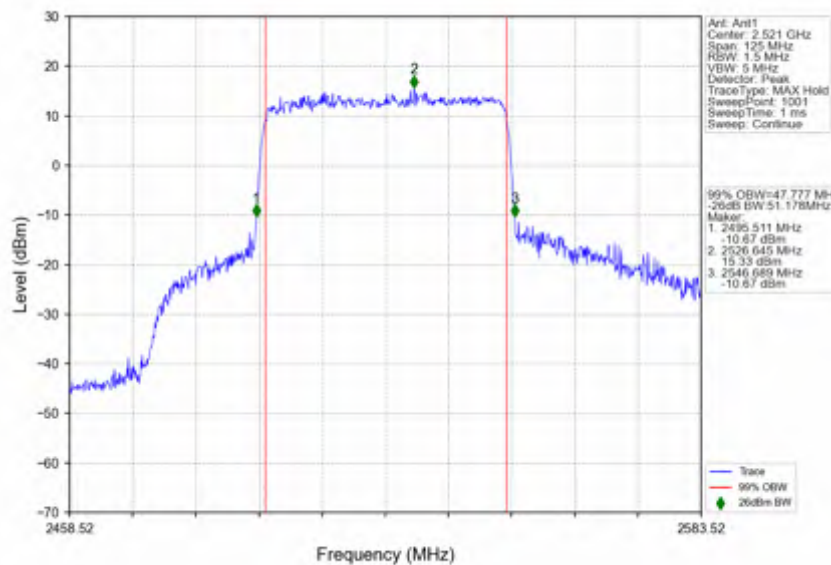
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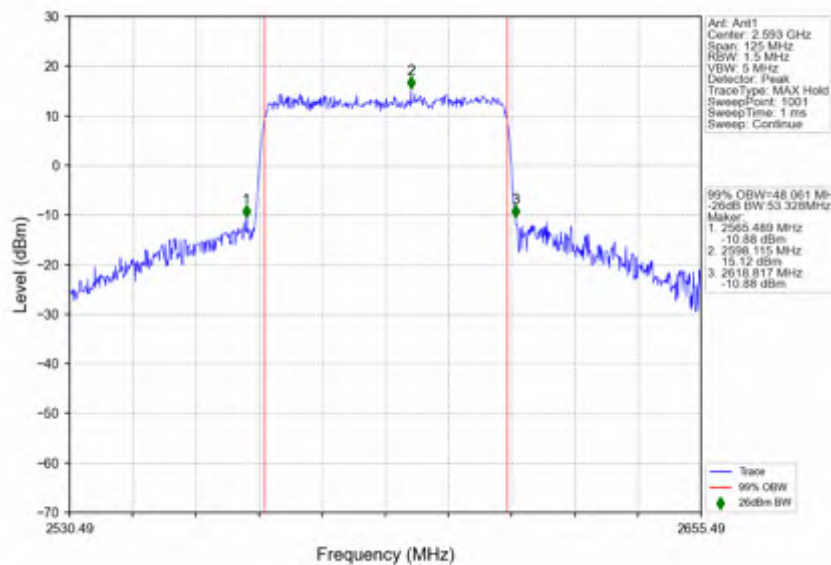
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n41	30kHz	SISO	NTNV	50MHz	CP-OFDM	16 QAM	2521.02MHz	Outer	Full
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n41	30kHz	SISO	NTNV	50MHz	CP-OFDM	16 QAM	2592.99MHz	Outer	Full
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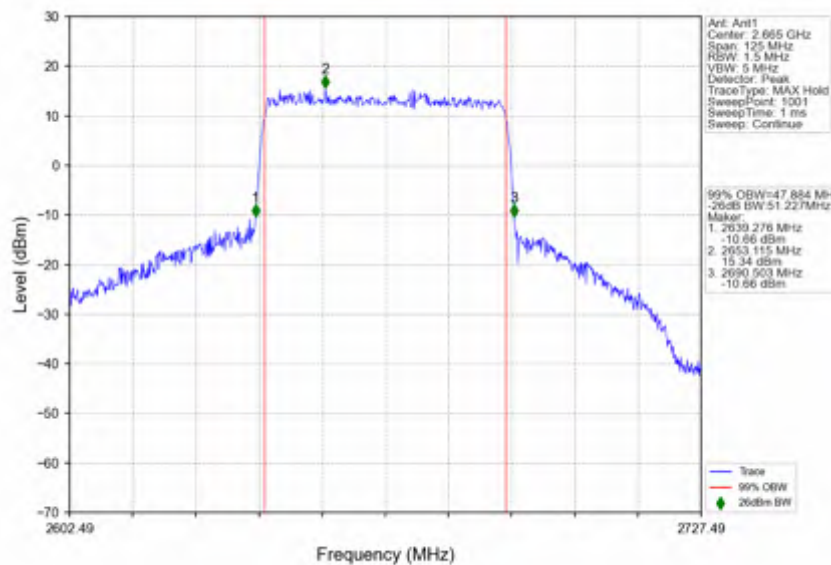


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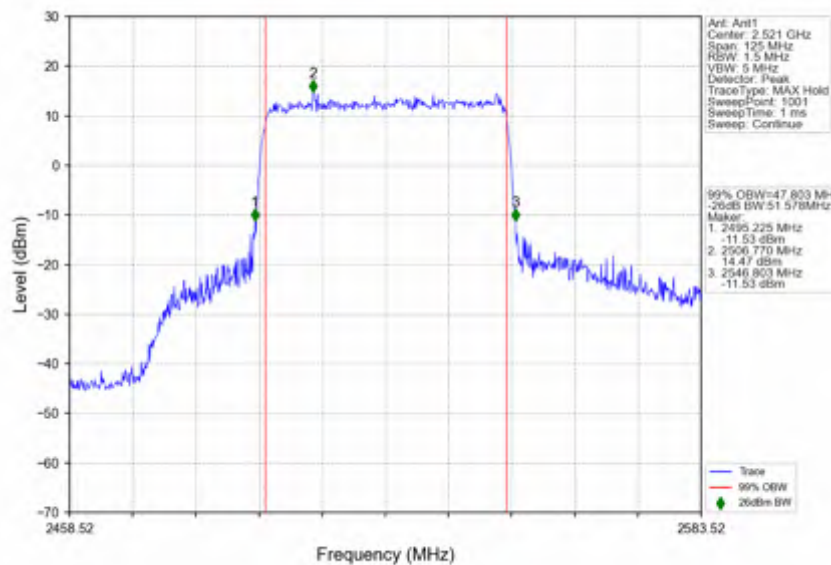
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n41	30kHz	SISO	NTNV	50MHz	CP-OFDM	16 QAM	2664.99MHz	Outer	Full
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n41	30kHz	SISO	NTNV	50MHz	CP-OFDM	64 QAM	2521.02MHz	Outer	Full
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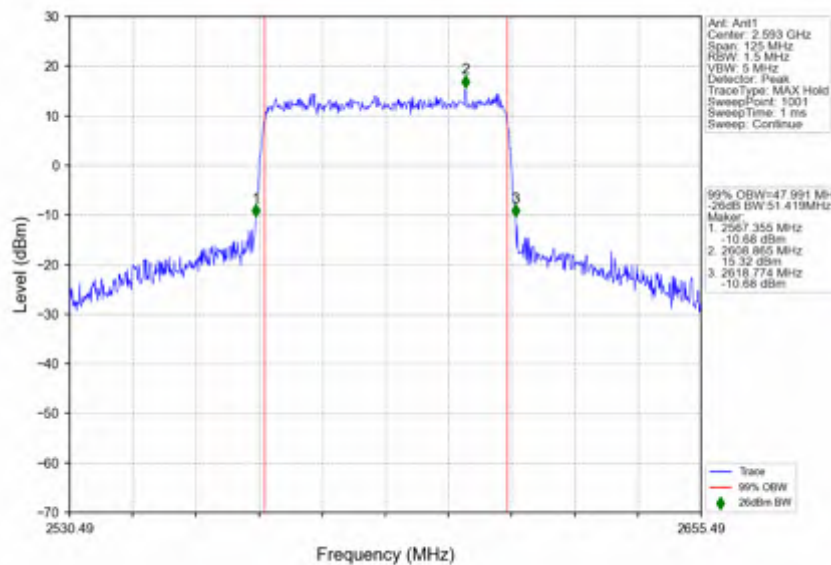


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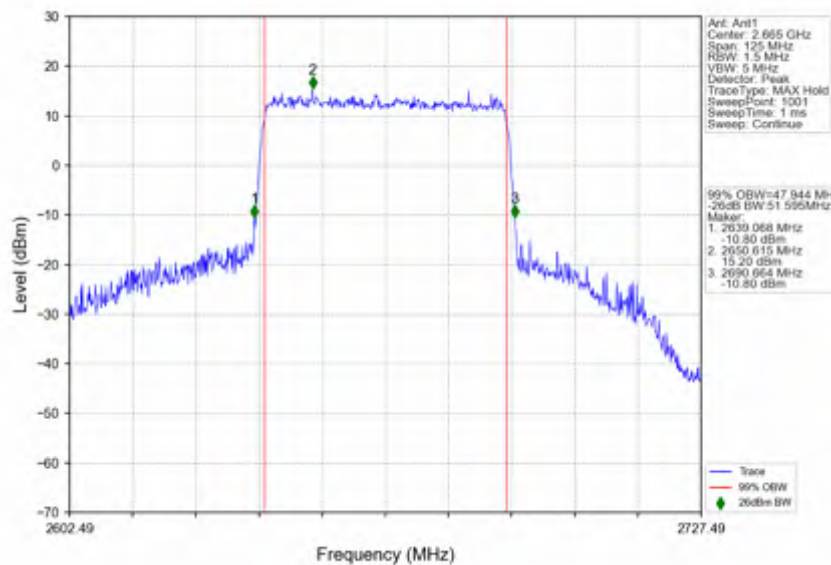
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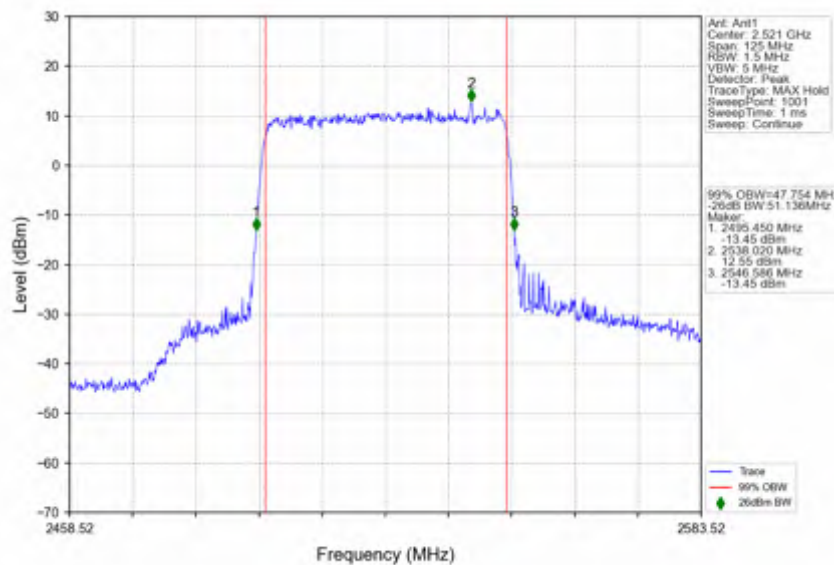
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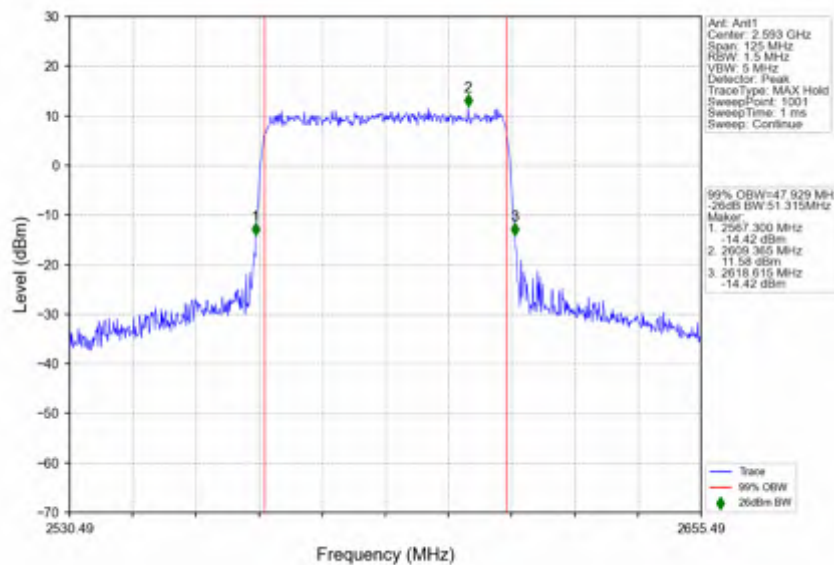
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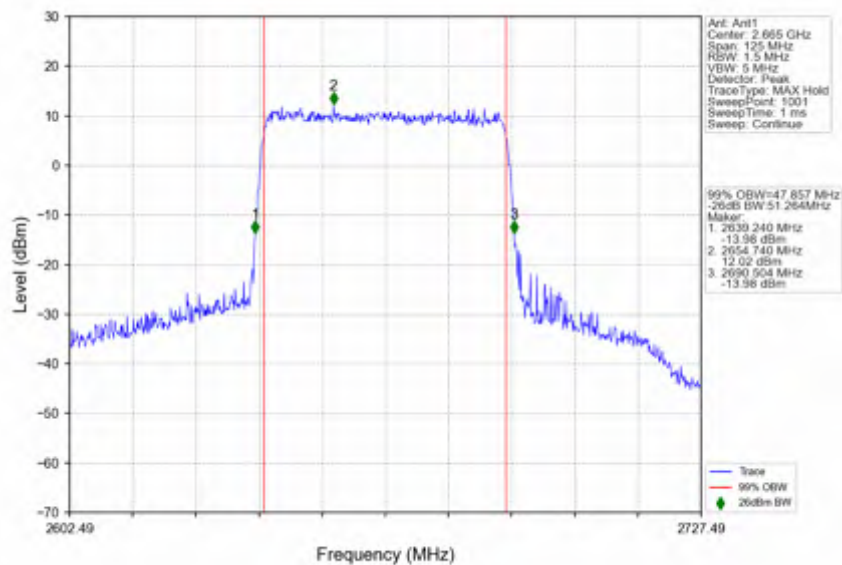
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6.13 30k_SISO_60MHz_NTNV

6.13.1 Test Result

5G NR n41 SCS=30kHz SISO 60MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2526	Outer_Full	58.26	63.58	/	Pass
	2592.99	Outer_Full	58.38	64.57	/	Pass
	2659.98	Outer_Full	58.16	62.95	/	Pass
DFT-s-OFDM QPSK	2526	Outer_Full	58.34	62.38	/	Pass
	2592.99	Outer_Full	58.38	62.36	/	Pass
	2659.98	Outer_Full	58.44	63.77	/	Pass
DFT-s-OFDM 16 QAM	2526	Outer_Full	58.46	62.22	/	Pass
	2592.99	Outer_Full	58.71	62.52	/	Pass
	2659.98	Outer_Full	58.62	62.35	/	Pass
DFT-s-OFDM 64 QAM	2526	Outer_Full	58.31	62.24	/	Pass
	2592.99	Outer_Full	58.38	62.37	/	Pass
	2659.98	Outer_Full	58.32	62.25	/	Pass
DFT-s-OFDM 256 QAM	2526	Outer_Full	57.91	62.24	/	Pass
	2592.99	Outer_Full	58.17	62.23	/	Pass
	2659.98	Outer_Full	58.07	62.25	/	Pass
CP-OFDM QPSK	2526	Outer_Full	58.22	62.23	/	Pass
	2592.99	Outer_Full	58.44	64.82	/	Pass
	2659.98	Outer_Full	58.41	62.45	/	Pass
CP-OFDM 16 QAM	2526	Outer_Full	58.35	64.32	/	Pass
	2592.99	Outer_Full	58.41	62.72	/	Pass
	2659.98	Outer_Full	58.34	62.69	/	Pass
CP-OFDM 64 QAM	2526	Outer_Full	58.10	62.35	/	Pass
	2592.99	Outer_Full	58.41	62.18	/	Pass
	2659.98	Outer_Full	58.32	62.11	/	Pass
CP-OFDM 256 QAM	2526	Outer_Full	58.21	63.27	/	Pass
	2592.99	Outer_Full	58.47	62.23	/	Pass
	2659.98	Outer_Full	58.15	64.41	/	Pass



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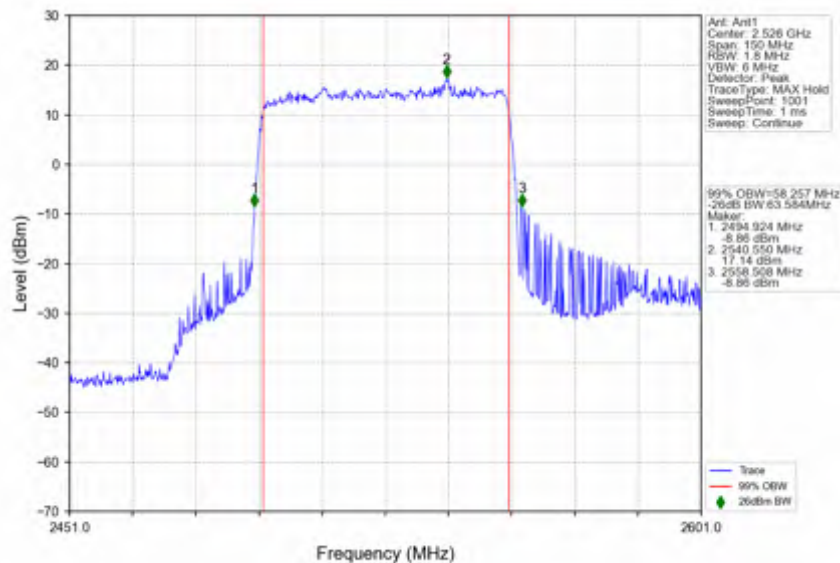
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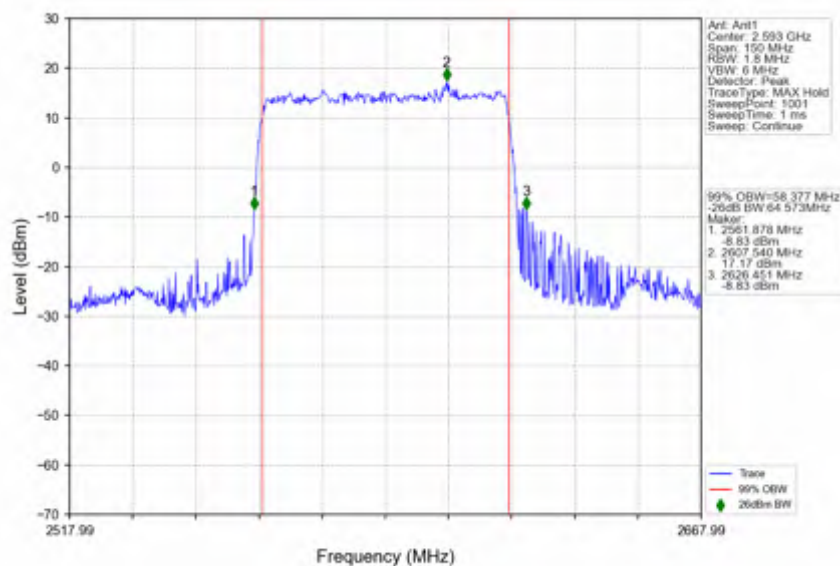
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6.13.2 Test Graph

n41_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM_PI/2_BPSK_2526MHz_Outer_Full



n41_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM_PI/2_BPSK_2592.99MHz_Outer_Full



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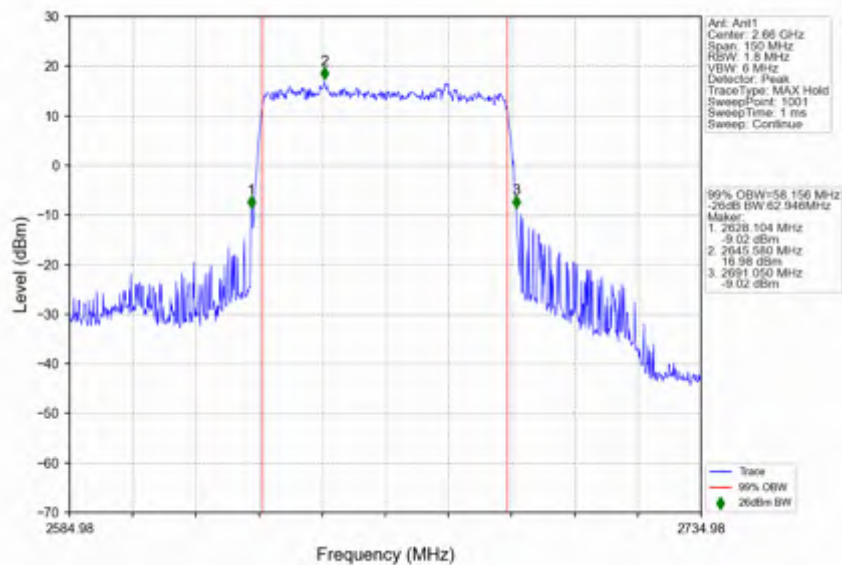
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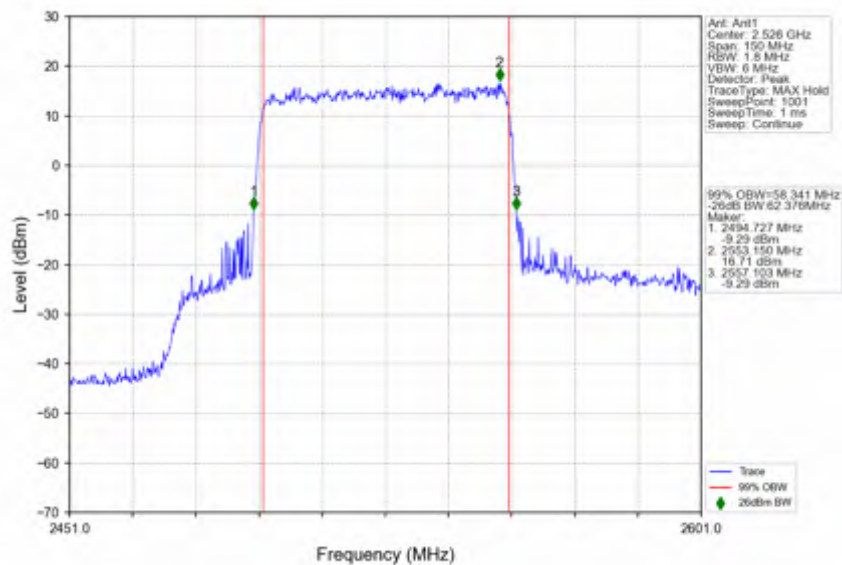
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n41_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM_QPSK_2526MHz_Outer_Full

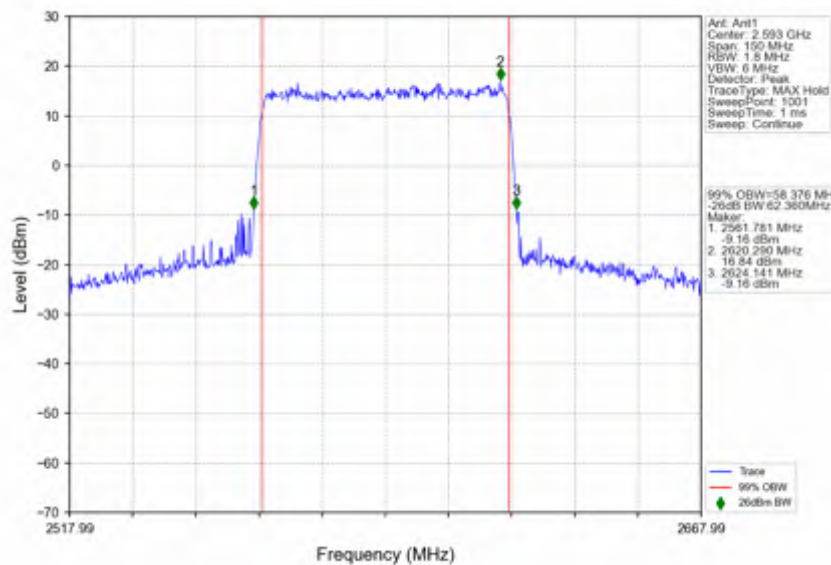


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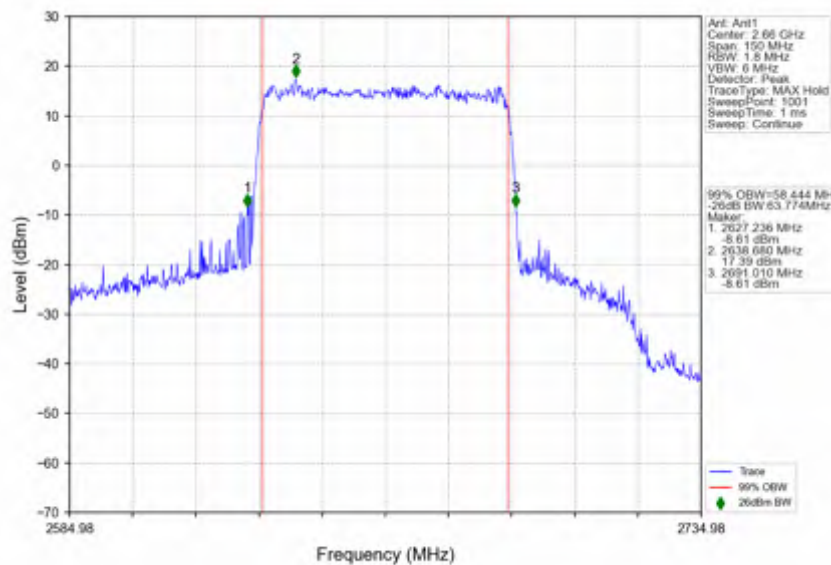
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n41_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM QPSK_2592.99MHz_Outer_Full



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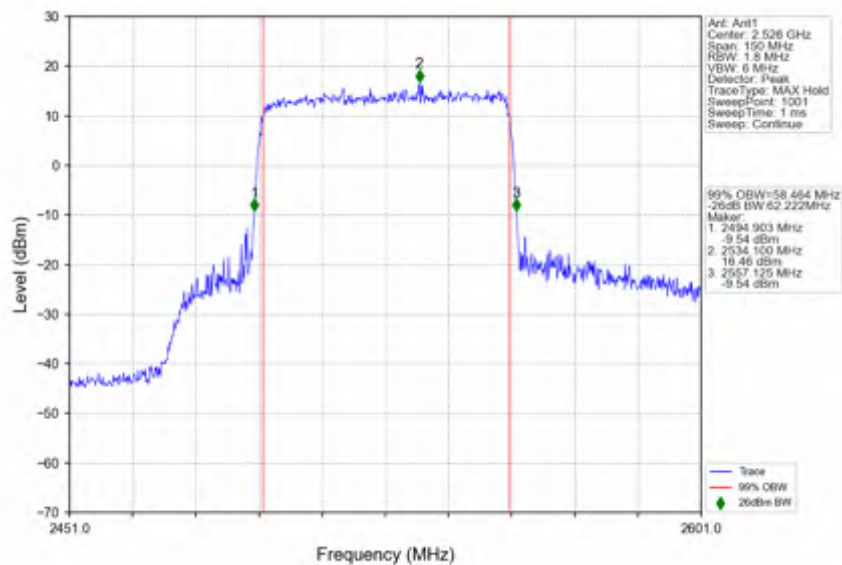
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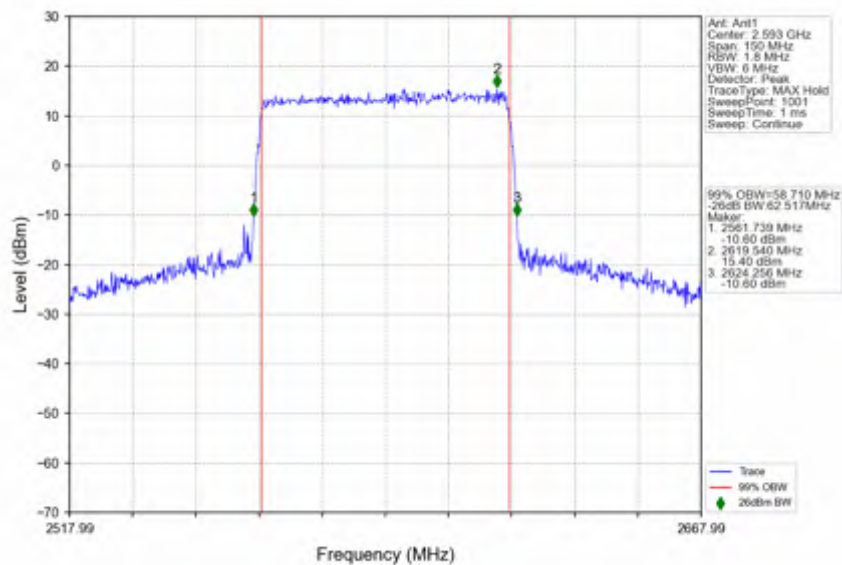
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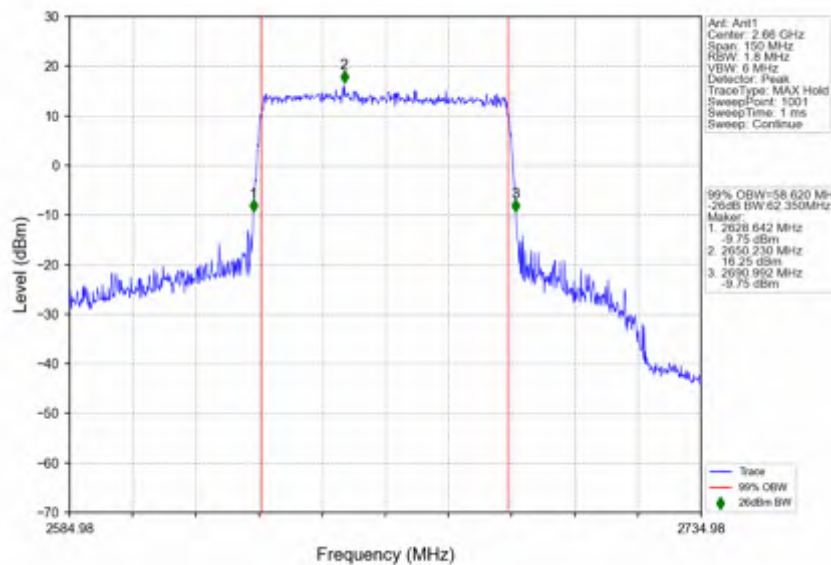


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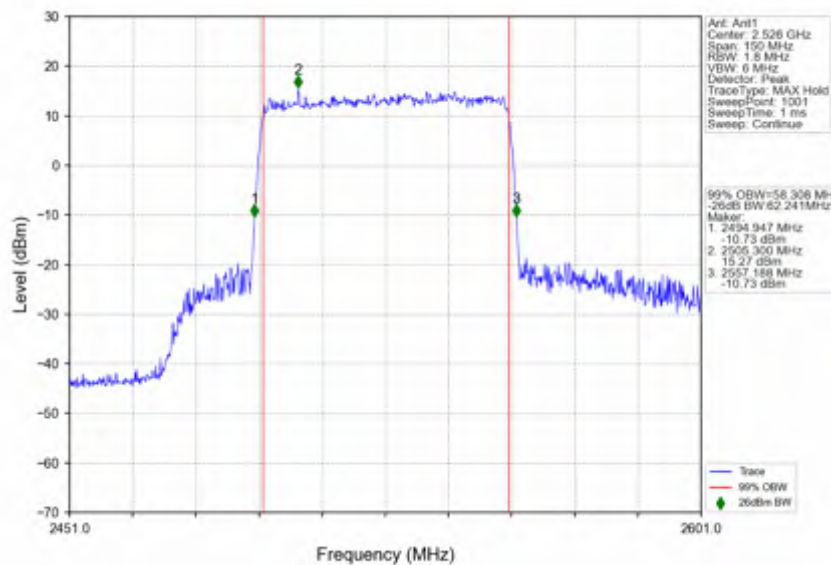
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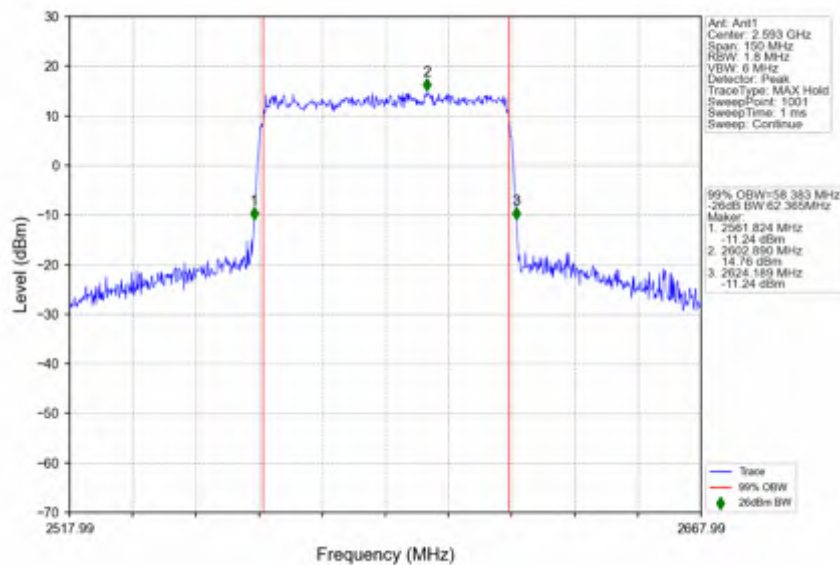


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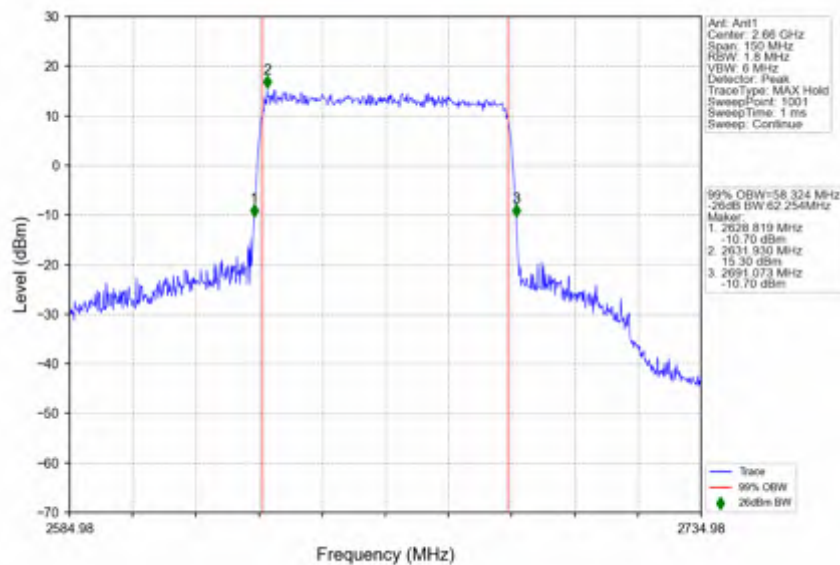
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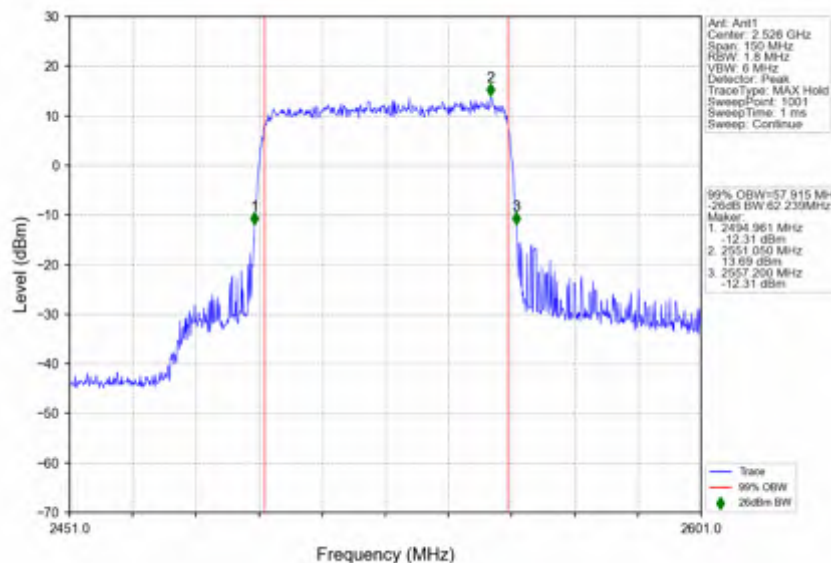
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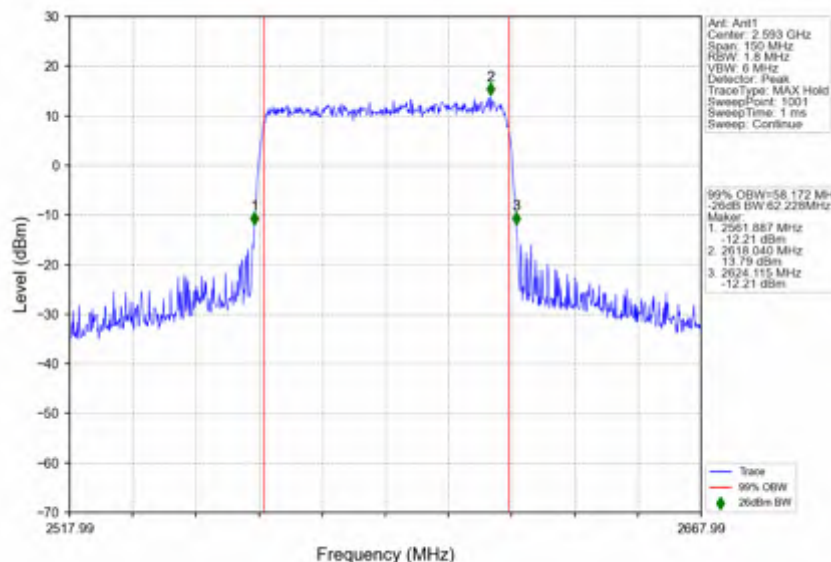
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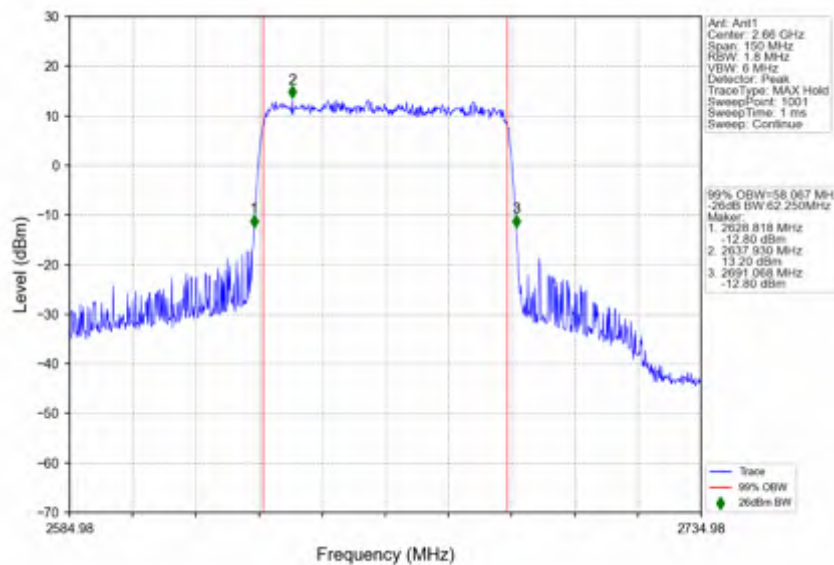
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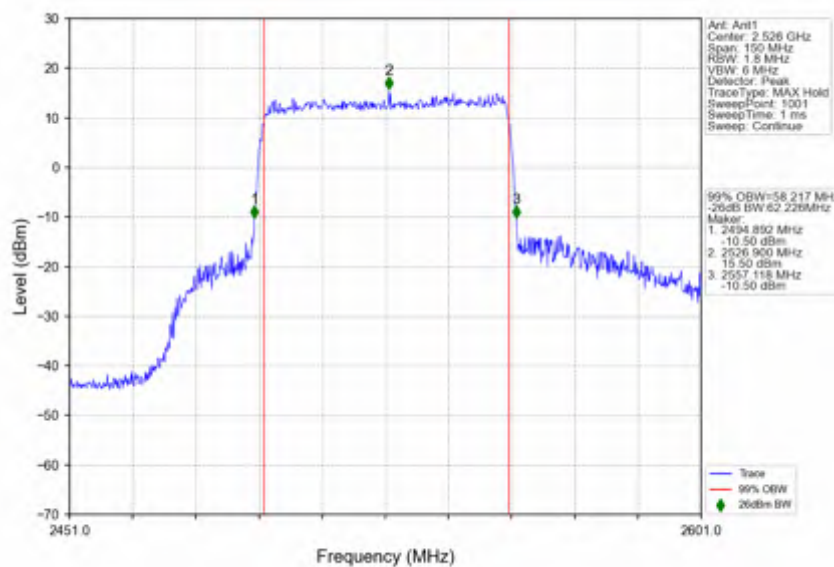
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n41	30kHz	SISO	NTNV	60MHz	CP-OFDM	QPSK	2526MHz	Outer	Full
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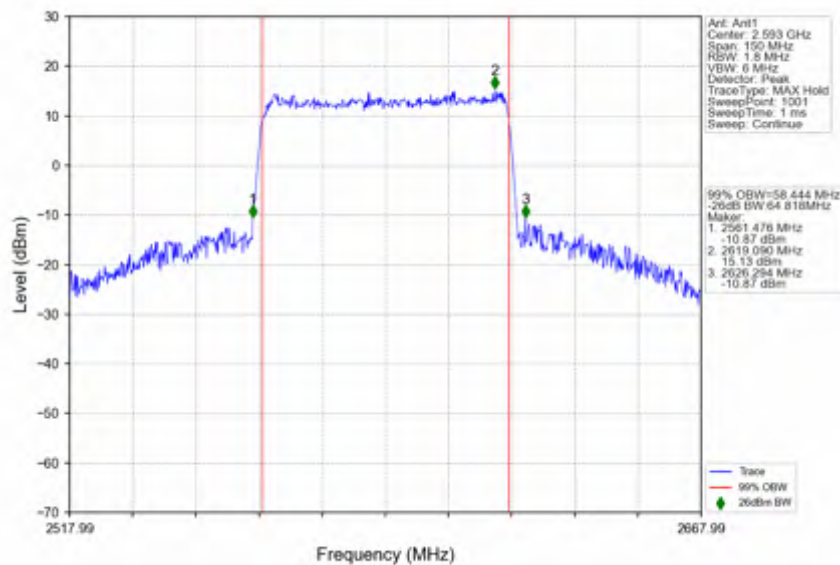


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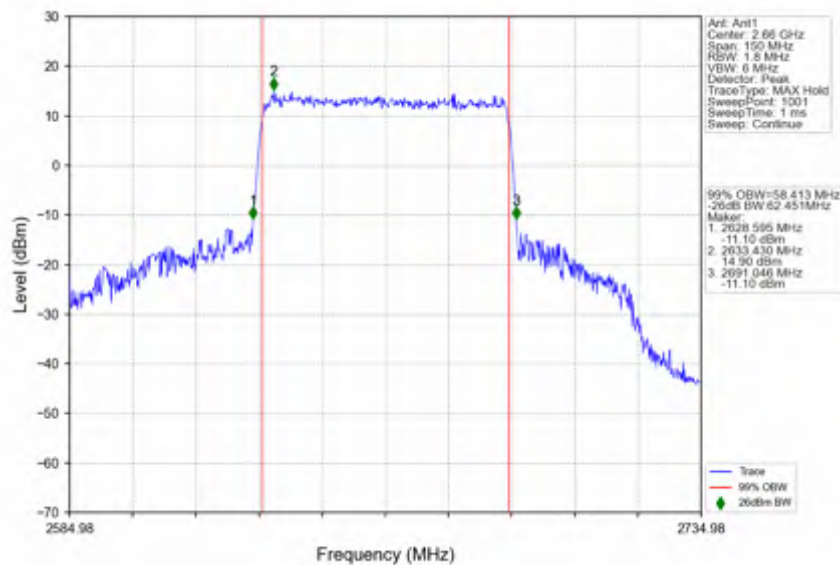
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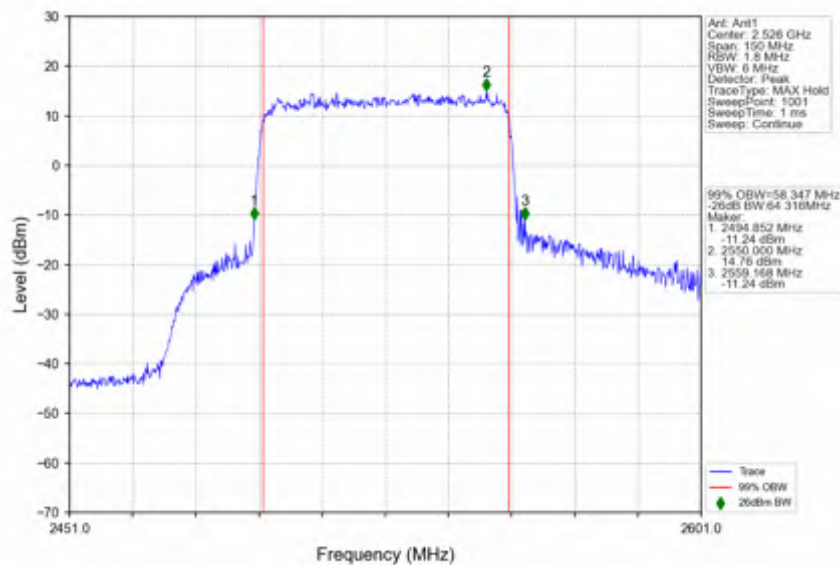


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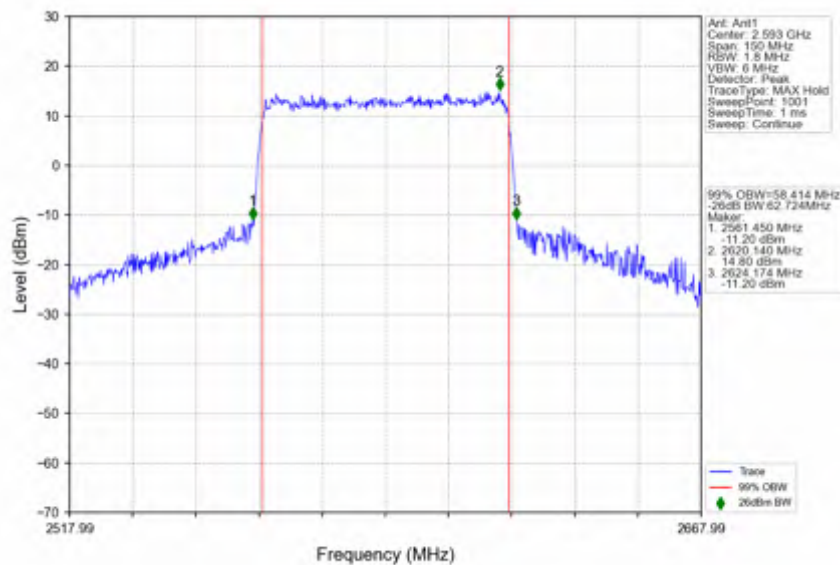
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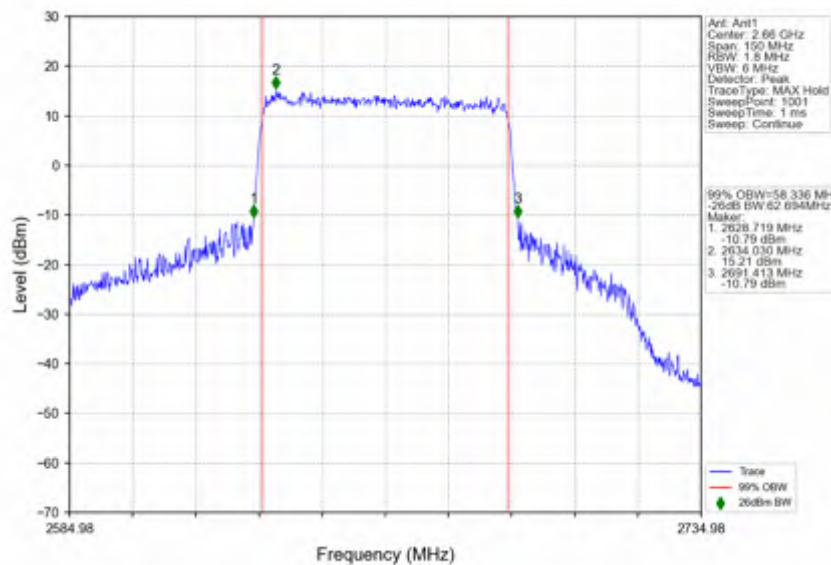
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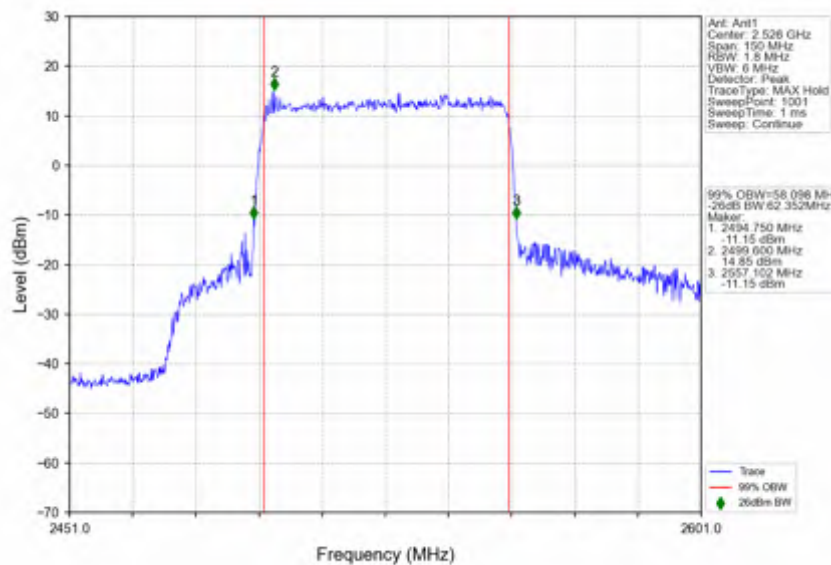
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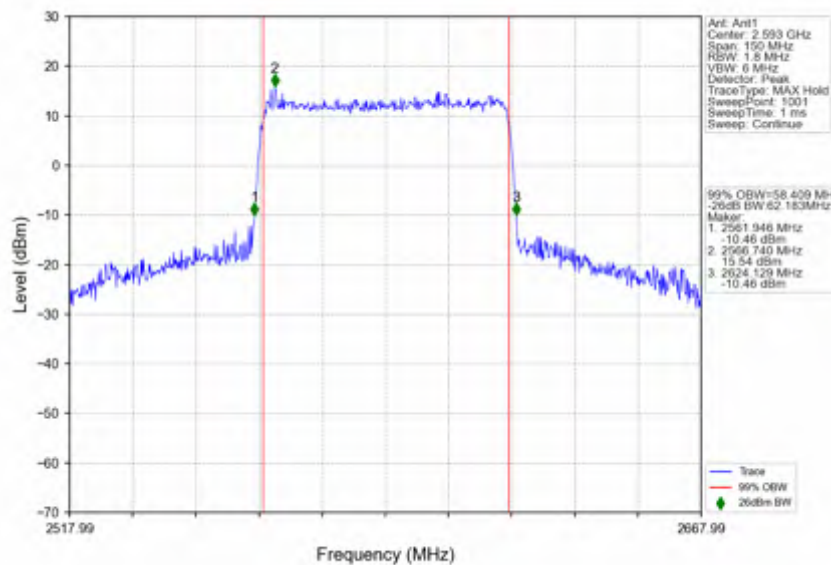
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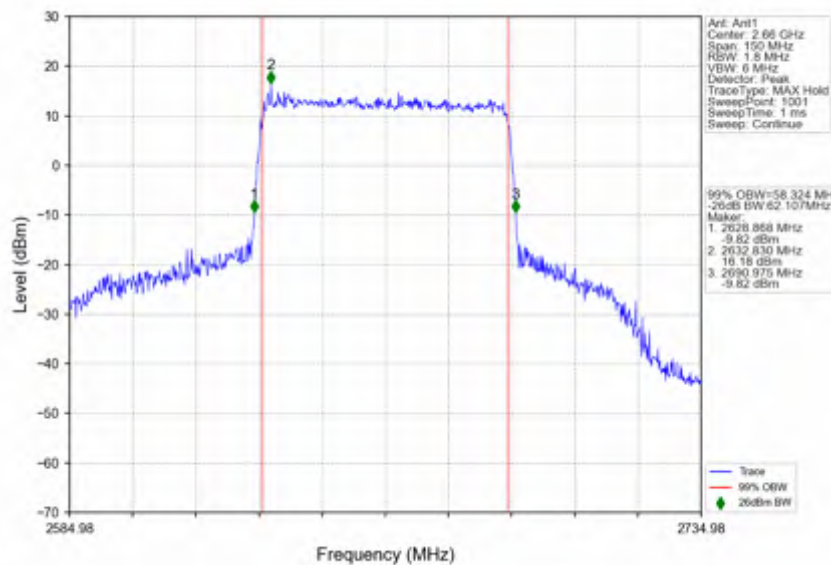
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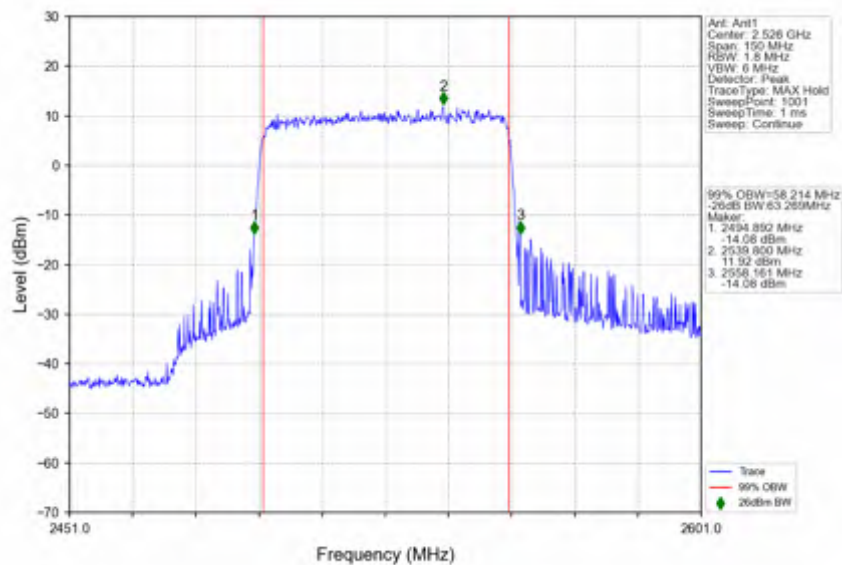
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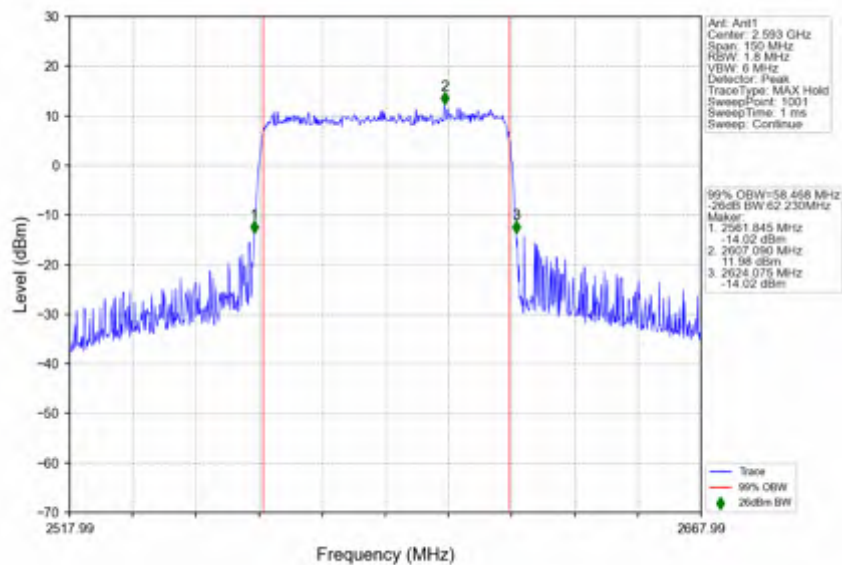
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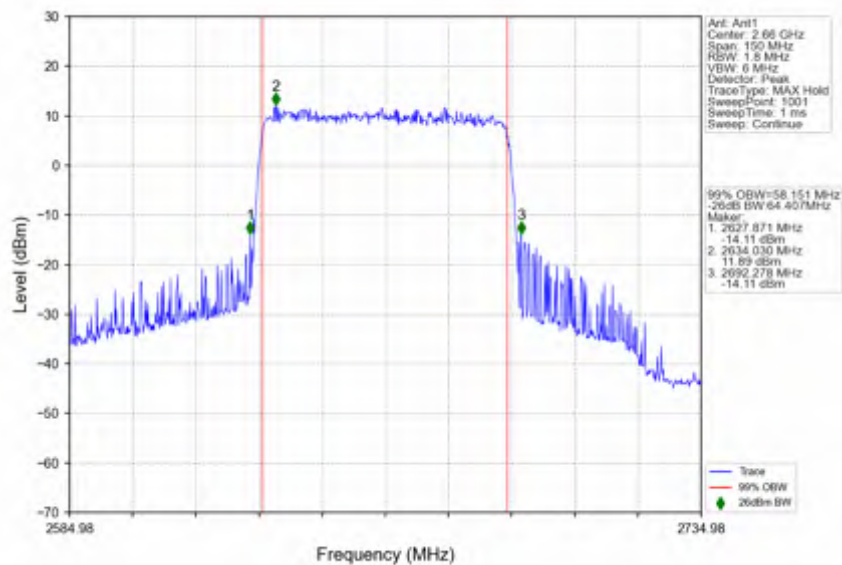
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n41_30kHz_SISO_NTNV_60MHz_CP-OFDM_256_QAM_2659.98MHz_Outer_Full



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6.14 30k_SISO_80MHz_NTNV

6.14.1 Test Result

5G NR n41 SCS=30kHz SISO 80MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2536.02	Outer_Full	77.33	85.59	/	Pass
	2592.99	Outer_Full	77.94	84.23	/	Pass
	2649.99	Outer_Full	77.59	82.96	/	Pass
DFT-s-OFDM QPSK	2536.02	Outer_Full	77.63	82.94	/	Pass
	2592.99	Outer_Full	77.91	83.02	/	Pass
	2649.99	Outer_Full	77.70	83.06	/	Pass
DFT-s-OFDM 16 QAM	2536.02	Outer_Full	77.52	83.88	/	Pass
	2592.99	Outer_Full	77.79	84.66	/	Pass
	2649.99	Outer_Full	77.66	84.59	/	Pass
DFT-s-OFDM 64 QAM	2536.02	Outer_Full	77.33	83.06	/	Pass
	2592.99	Outer_Full	77.84	82.90	/	Pass
	2649.99	Outer_Full	77.56	83.03	/	Pass
DFT-s-OFDM 256 QAM	2536.02	Outer_Full	77.49	82.78	/	Pass
	2592.99	Outer_Full	77.91	83.01	/	Pass
	2649.99	Outer_Full	77.68	82.87	/	Pass
CP-OFDM QPSK	2536.02	Outer_Full	77.93	83.26	/	Pass
	2592.99	Outer_Full	78.34	83.65	/	Pass
	2649.99	Outer_Full	77.95	83.08	/	Pass
CP-OFDM 16 QAM	2536.02	Outer_Full	78.21	88.21	/	Pass
	2592.99	Outer_Full	78.27	91.63	/	Pass
	2649.99	Outer_Full	78.31	85.14	/	Pass
CP-OFDM 64 QAM	2536.02	Outer_Full	77.81	83.92	/	Pass
	2592.99	Outer_Full	78.23	83.81	/	Pass
	2649.99	Outer_Full	78.06	84.69	/	Pass
CP-OFDM 256 QAM	2536.02	Outer_Full	77.65	83.05	/	Pass
	2592.99	Outer_Full	77.98	84.25	/	Pass
	2649.99	Outer_Full	77.85	83.26	/	Pass



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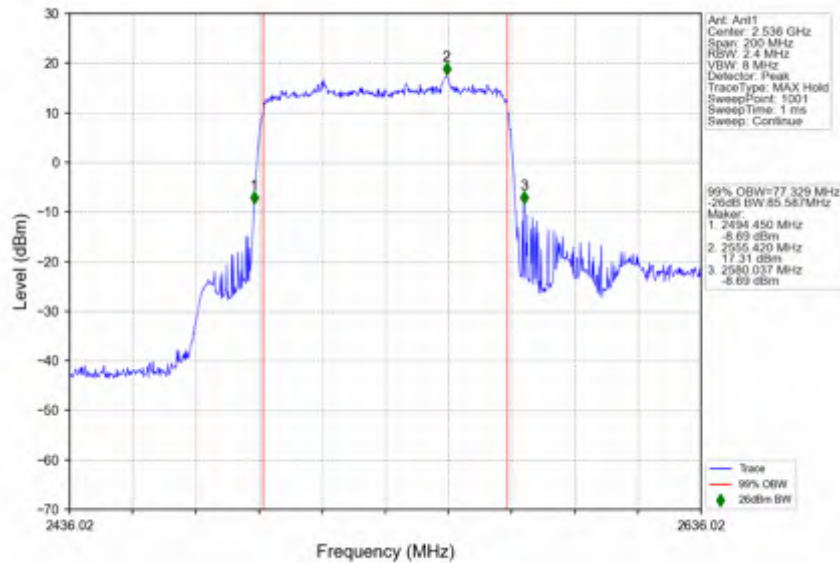
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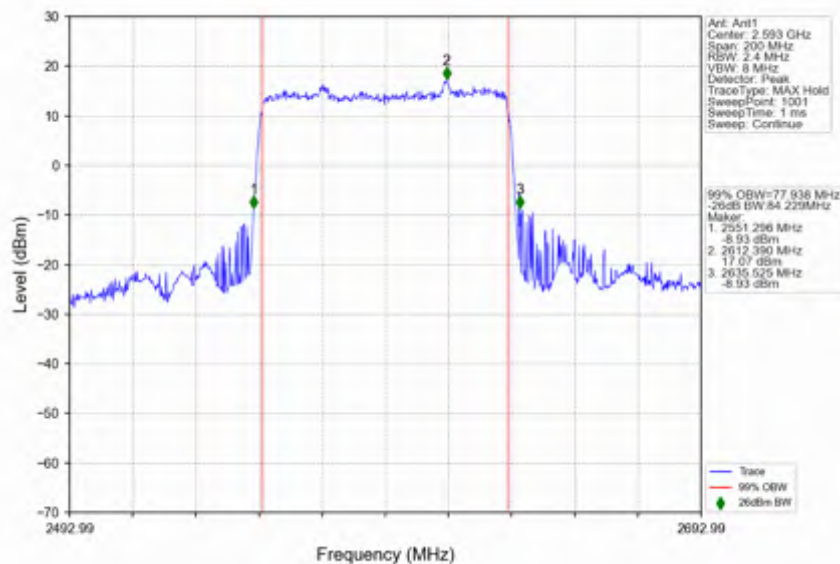
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6.14.2 Test Graph

n41_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_PI/2_BPSK_2536.02MHz_Outer_Full



n41_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM_PI/2_BPSK_2592.99MHz_Outer_Full



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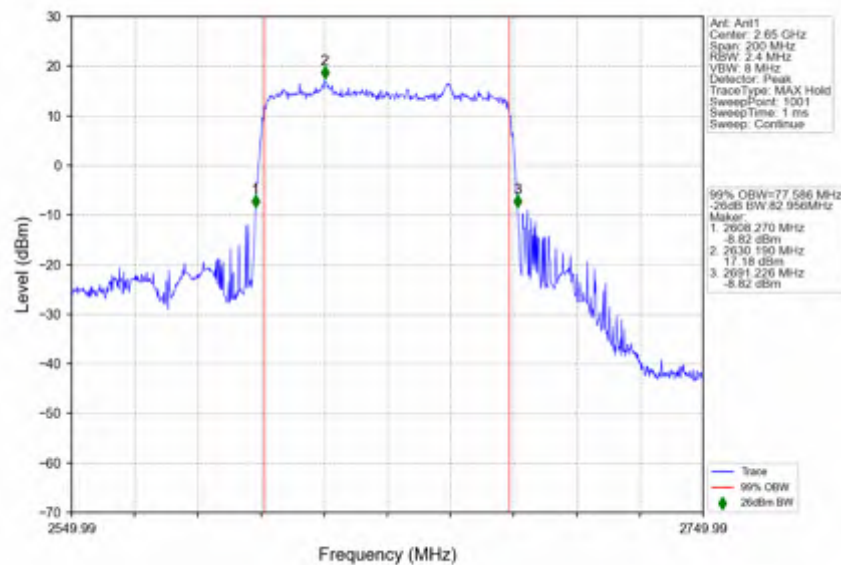
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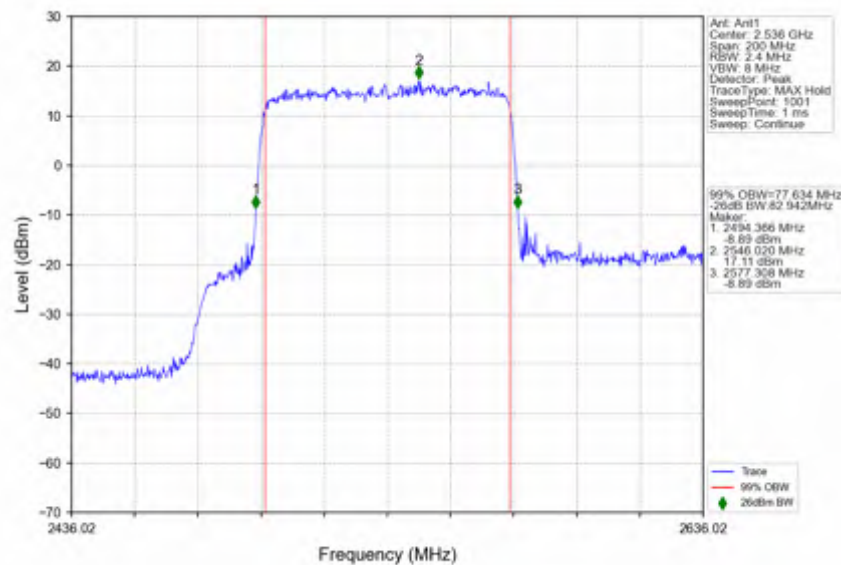
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n41_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM QPSK_2536.02MHz_Outer_Full



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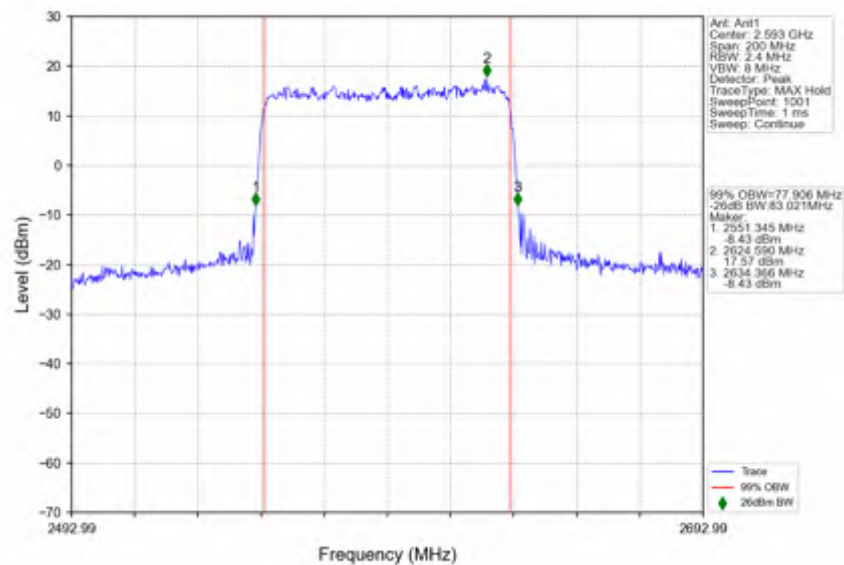
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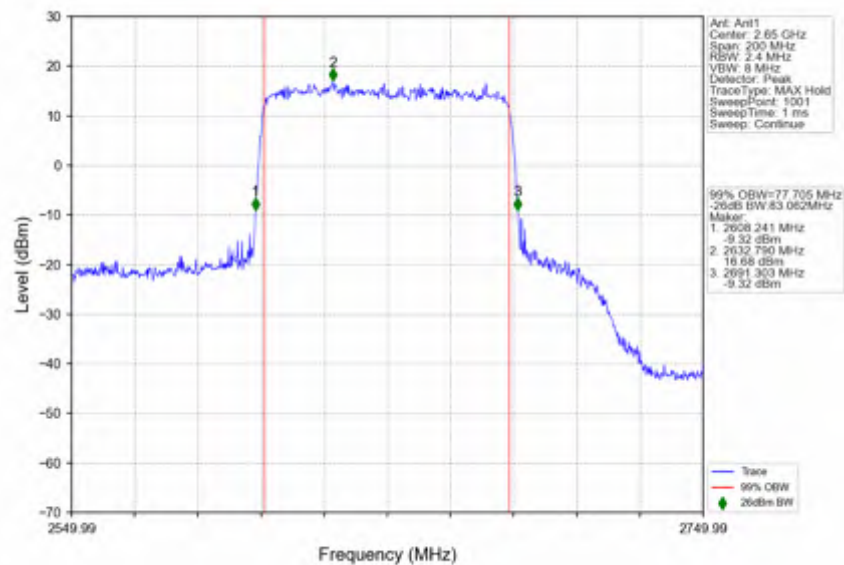
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n41_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM QPSK_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM QPSK_2649.99MHz_Outer_Full



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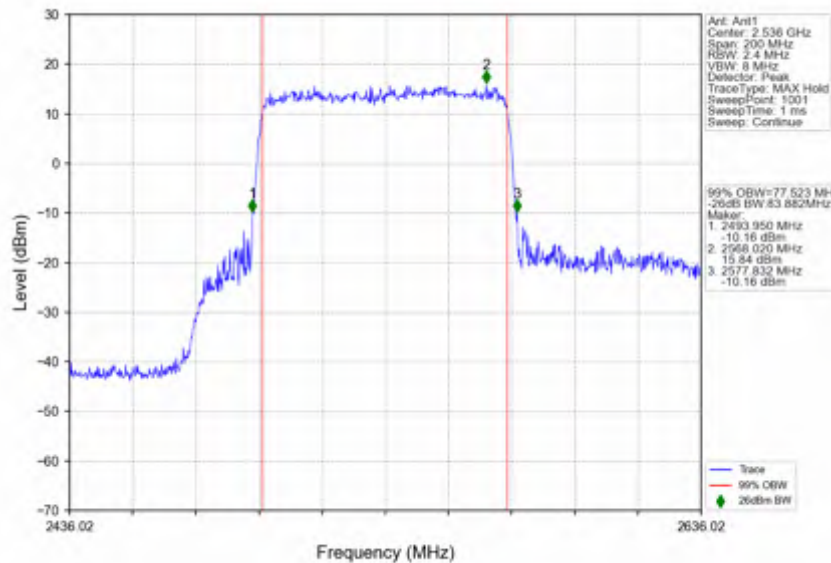
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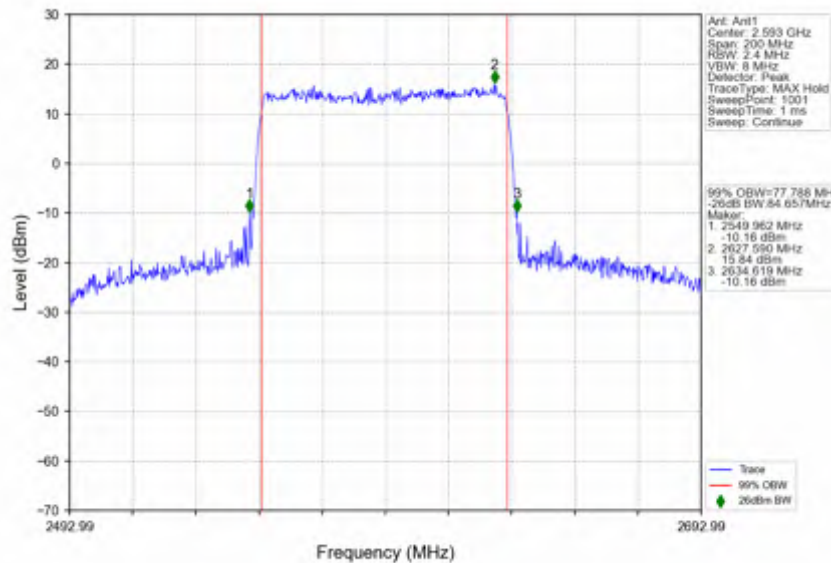
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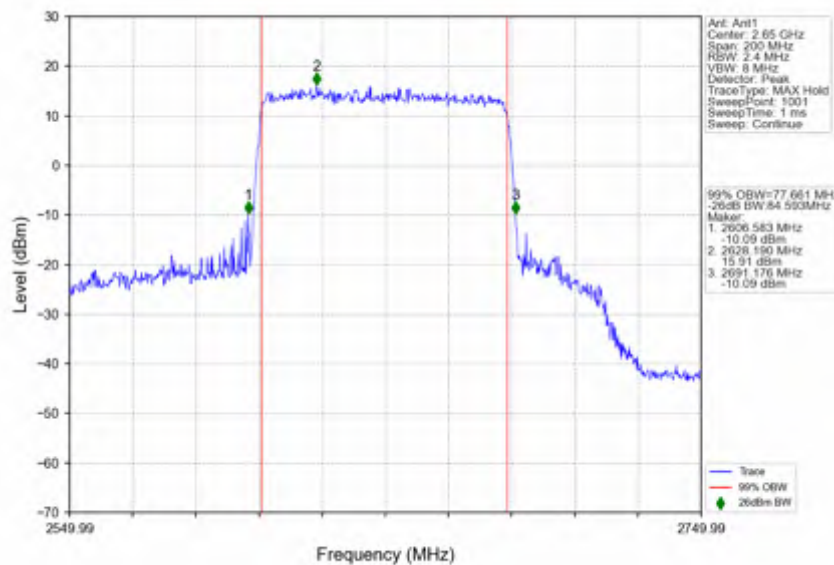
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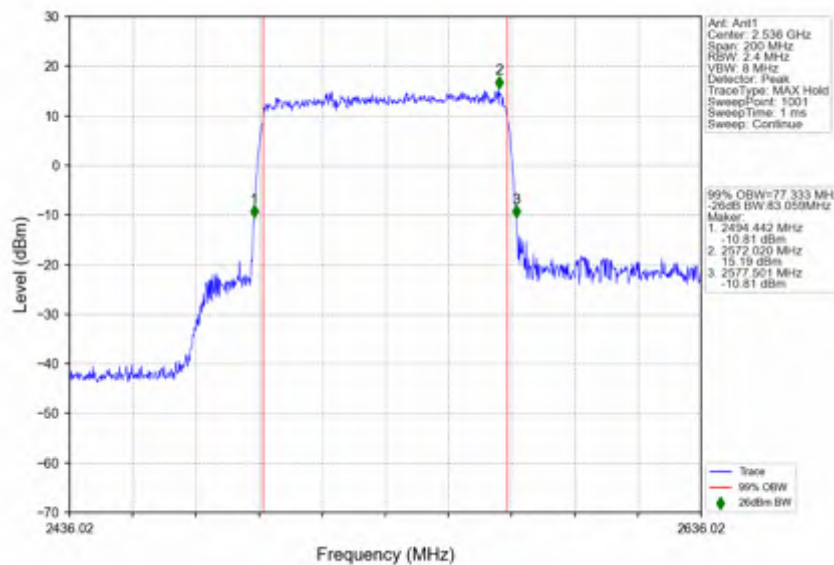
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n41_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM 16 QAM_2649.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_80MHz_DFT-s-OFDM 64 QAM_2536.02MHz_Outer_Full



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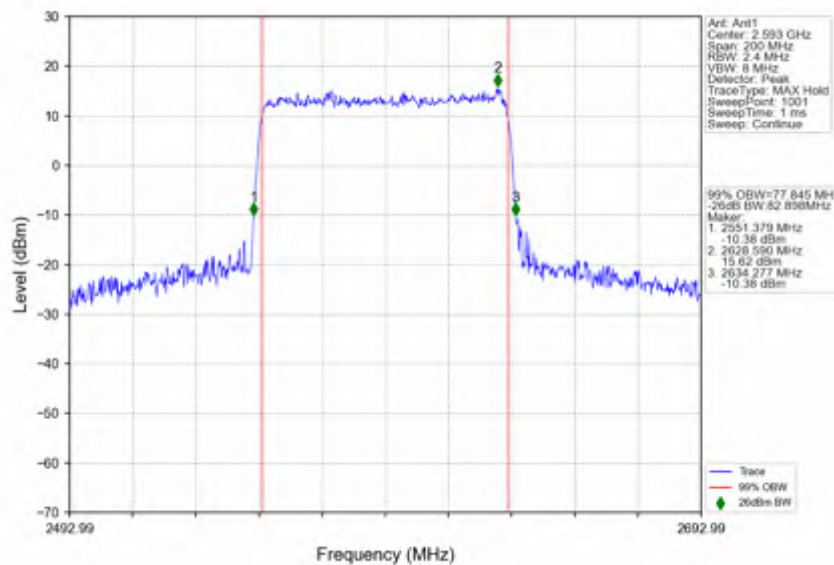
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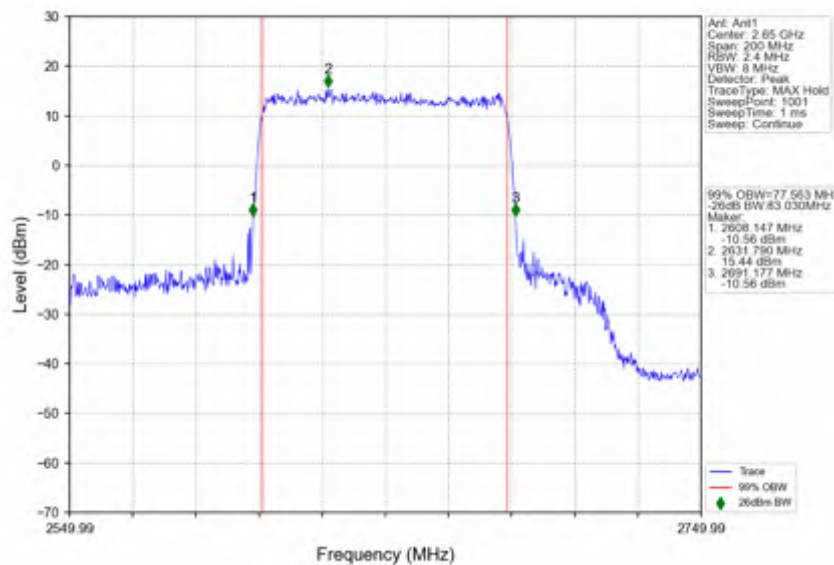
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n41	30kHz	SISO	NTNV	80MHz	DFT-s-OFDM	64 QAM	2592.99MHz	Outer	Full
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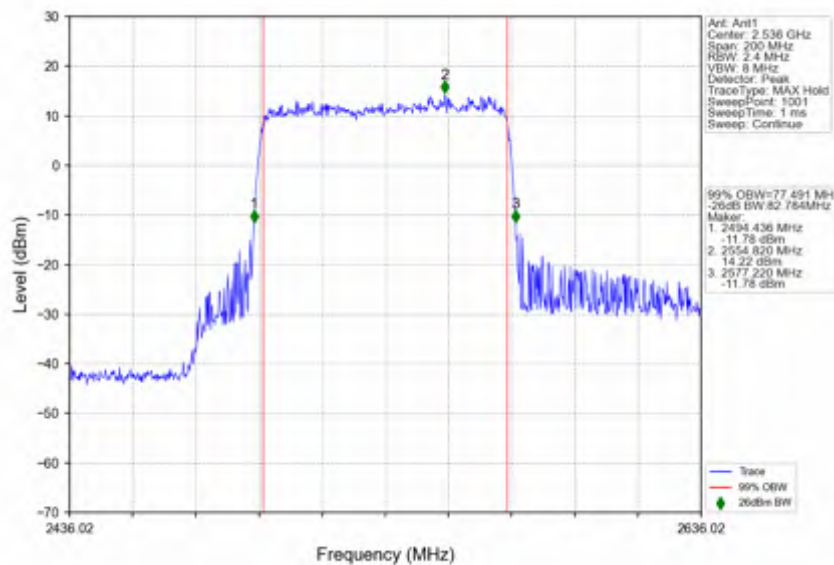


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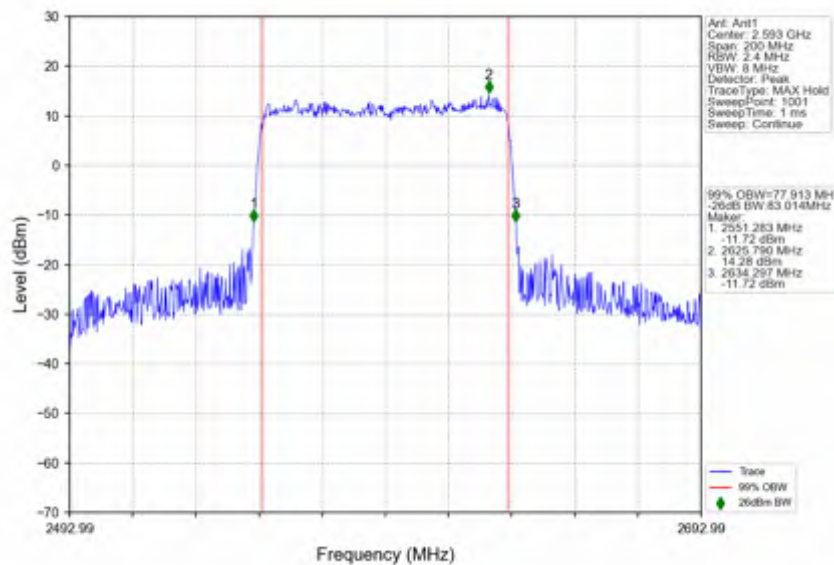
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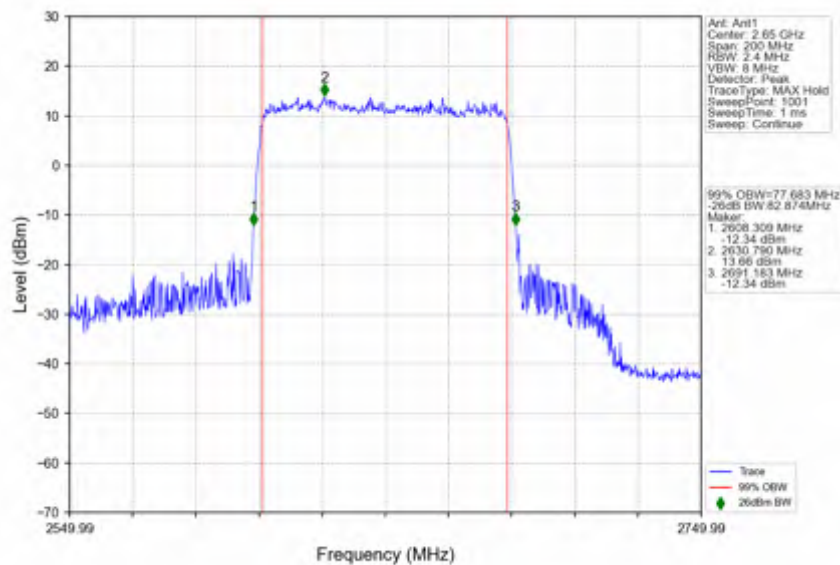
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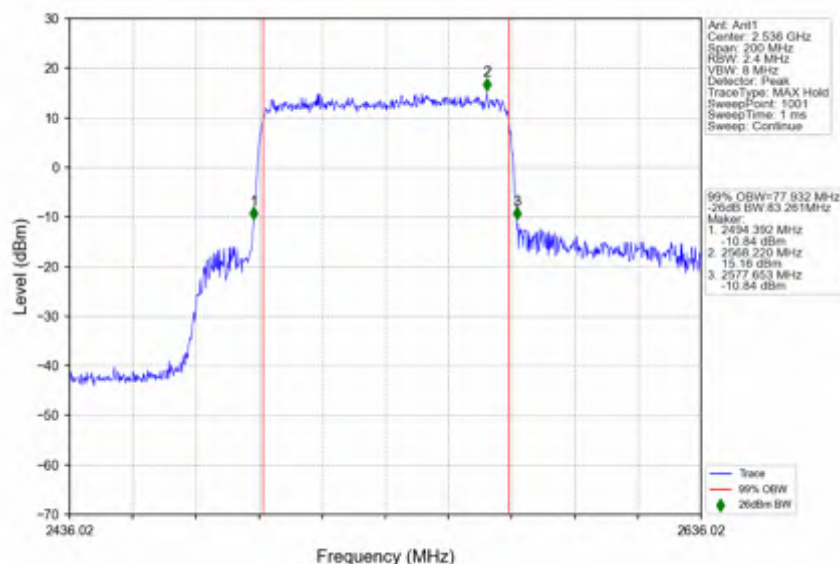
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n41	30kHz	SISO	NTNV	80MHz	CP-OFDM	QPSK	2536.02MHz	Outer	Full
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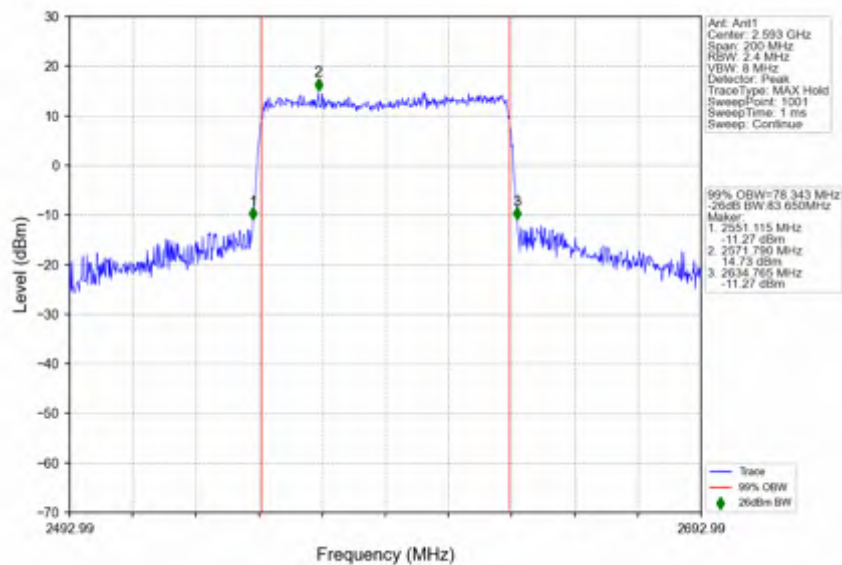


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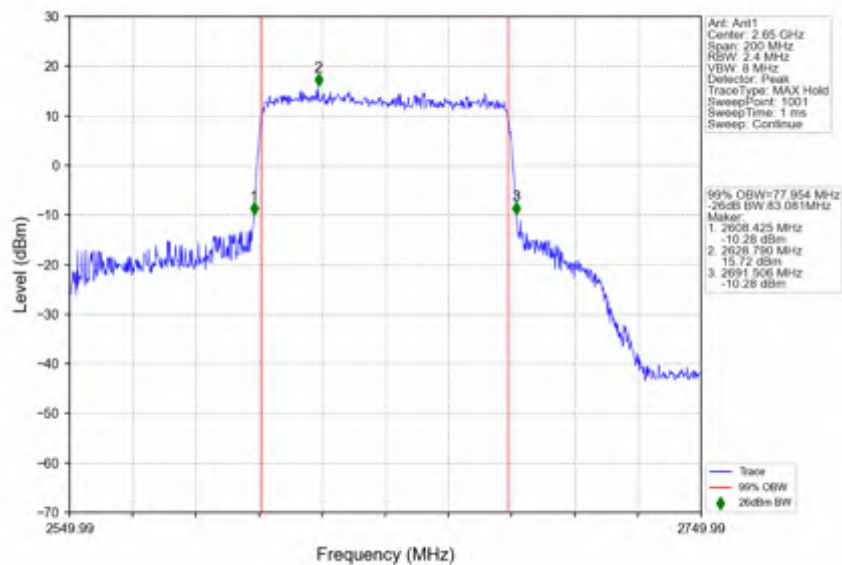
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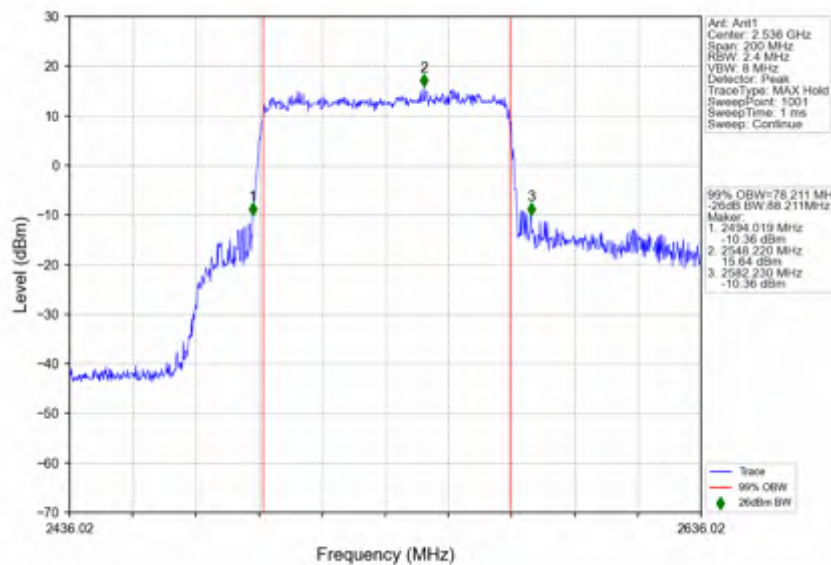


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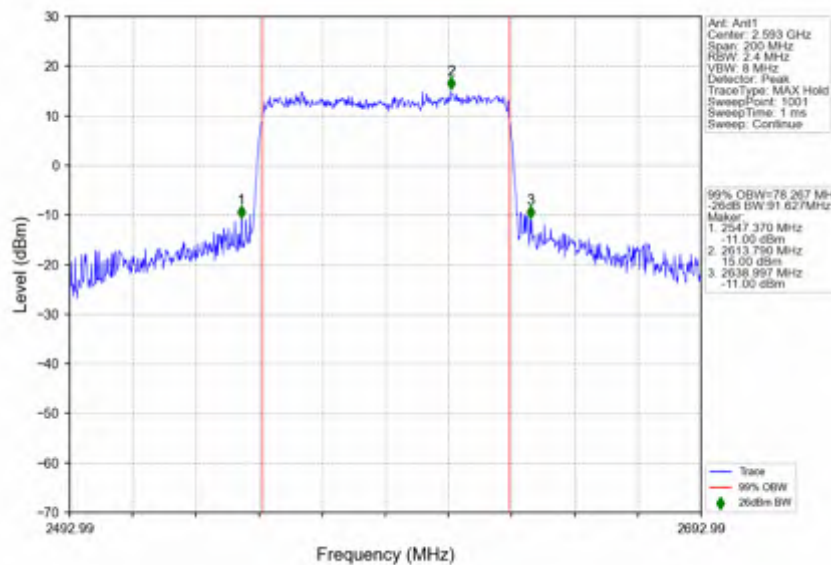
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n41_30kHz_SISO_NTNV_80MHz_CP-OFDM_16_QAM_2536.02MHz_Outer_Full



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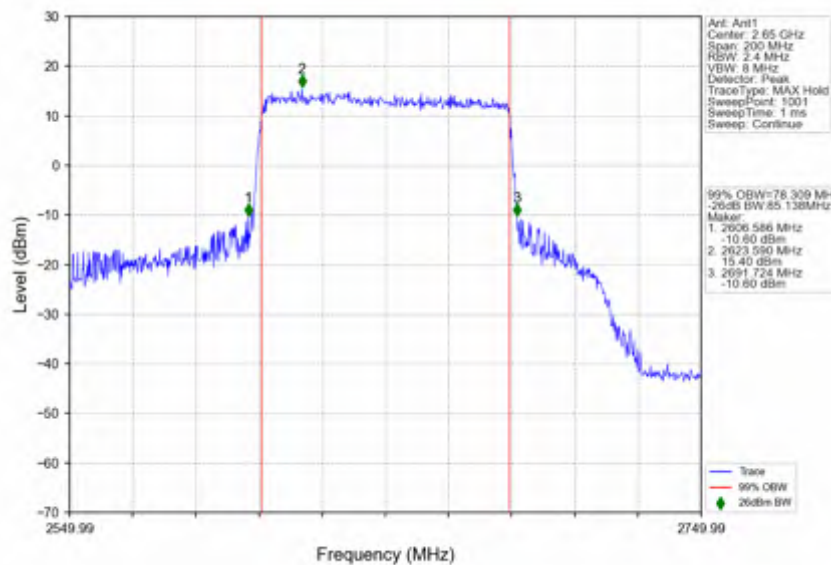
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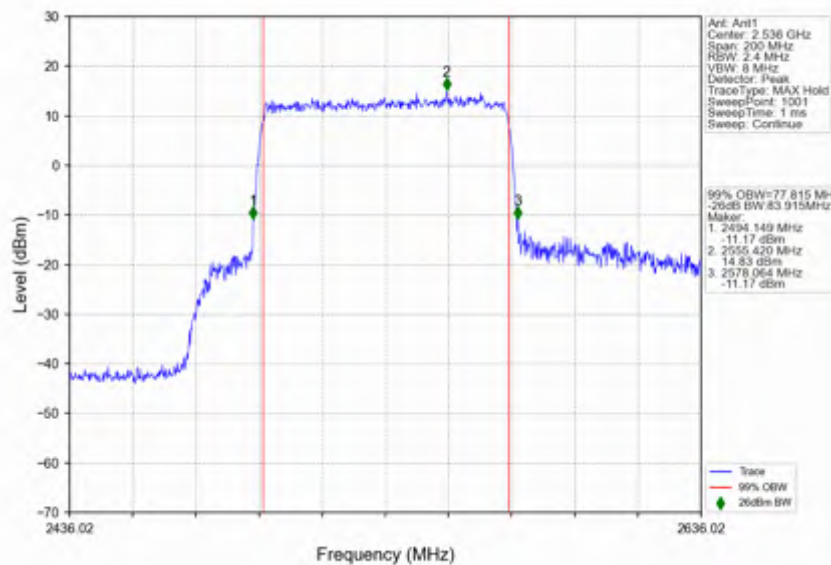
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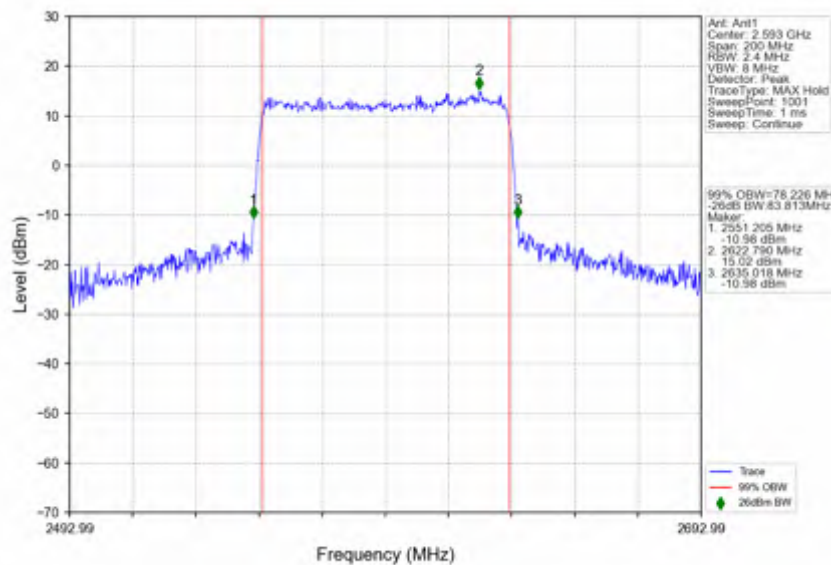
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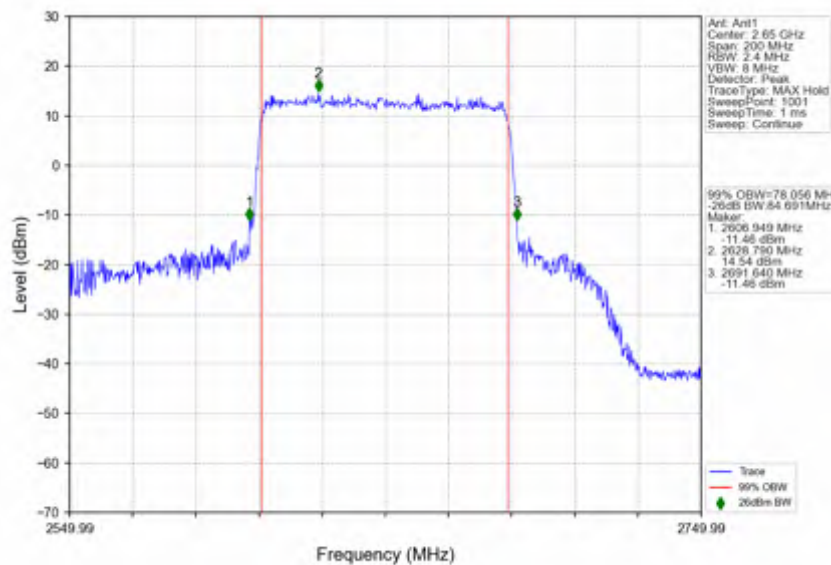
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n41_30kHz_SISO_NTNV_80MHz_CP-OFDM_64_QAM_2592.99MHz_Outer_Full



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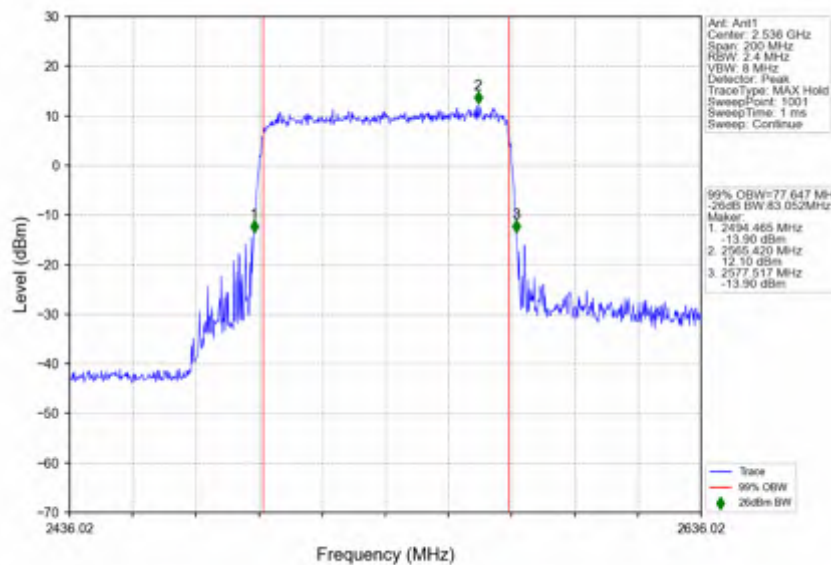
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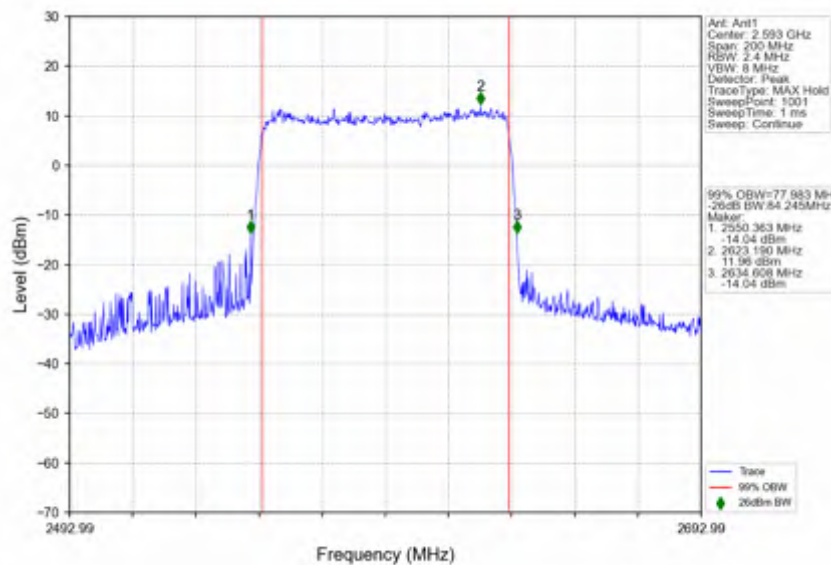
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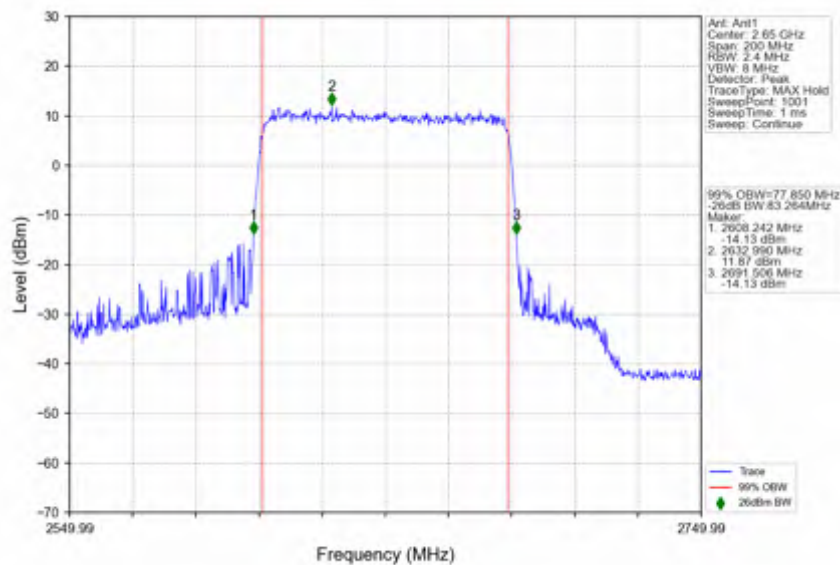
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6.15 30k_SISO_90MHz_NTNV

6.15.1 Test Result

5G NR n41 SCS=30kHz SISO 90MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2541	Outer_Full	87.21	92.99	/	Pass
	2592.99	Outer_Full	87.45	93.21	/	Pass
	2644.98	Outer_Full	87.17	93.27	/	Pass
DFT-s-OFDM QPSK	2541	Outer_Full	87.10	93.25	/	Pass
	2592.99	Outer_Full	87.62	93.25	/	Pass
	2644.98	Outer_Full	87.13	93.28	/	Pass
DFT-s-OFDM 16 QAM	2541	Outer_Full	87.32	93.29	/	Pass
	2592.99	Outer_Full	87.67	93.55	/	Pass
	2644.98	Outer_Full	87.39	93.44	/	Pass
DFT-s-OFDM 64 QAM	2541	Outer_Full	87.38	93.38	/	Pass
	2592.99	Outer_Full	87.75	93.34	/	Pass
	2644.98	Outer_Full	87.29	93.27	/	Pass
DFT-s-OFDM 256 QAM	2541	Outer_Full	87.08	93.91	/	Pass
	2592.99	Outer_Full	87.53	94.51	/	Pass
	2644.98	Outer_Full	87.20	93.22	/	Pass
CP-OFDM QPSK	2541	Outer_Full	87.89	93.94	/	Pass
	2592.99	Outer_Full	88.39	93.81	/	Pass
	2644.98	Outer_Full	87.89	94.59	/	Pass
CP-OFDM 16 QAM	2541	Outer_Full	87.90	93.92	/	Pass
	2592.99	Outer_Full	88.25	93.98	/	Pass
	2644.98	Outer_Full	87.88	94.14	/	Pass
CP-OFDM 64 QAM	2541	Outer_Full	87.91	94.07	/	Pass
	2592.99	Outer_Full	88.22	94.07	/	Pass
	2644.98	Outer_Full	87.81	93.96	/	Pass
CP-OFDM 256 QAM	2541	Outer_Full	87.84	94.37	/	Pass
	2592.99	Outer_Full	88.02	94.30	/	Pass
	2644.98	Outer_Full	87.89	93.86	/	Pass



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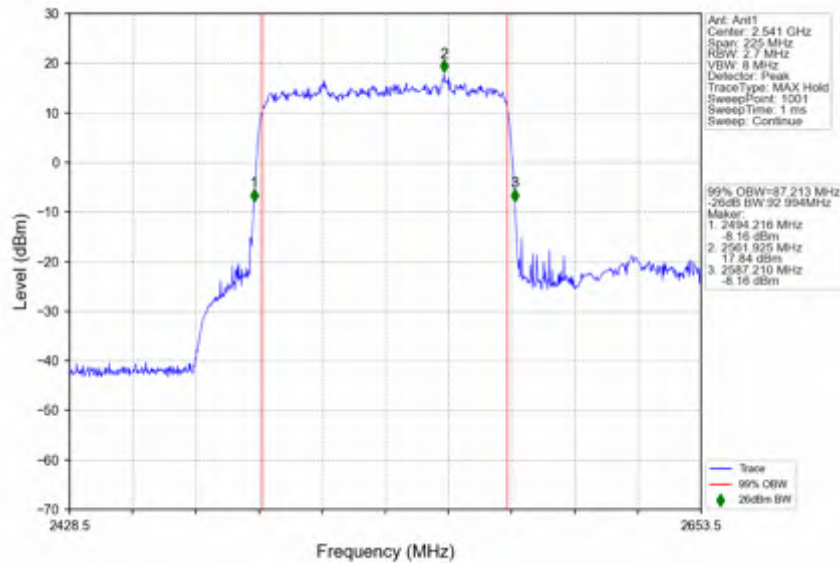
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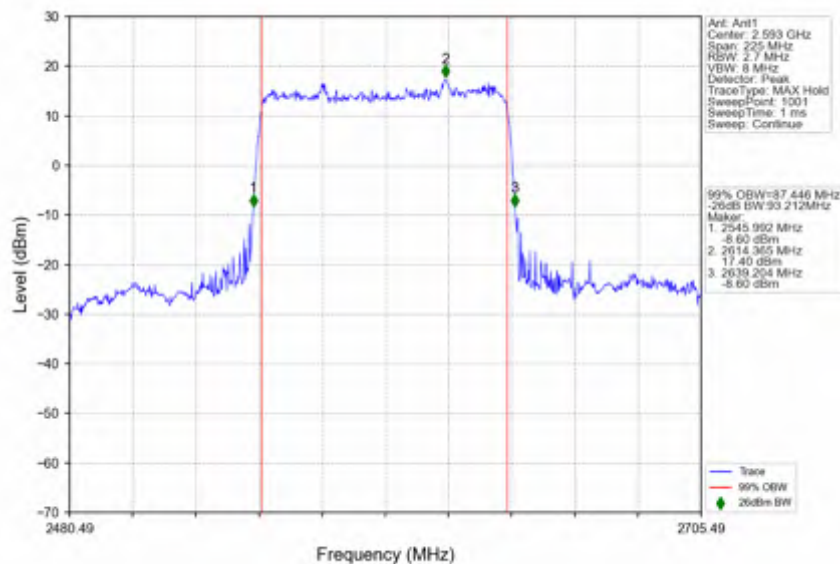
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6.15.2 Test Graph

n41_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_PI/2_BPSK_2541MHz_Outer_Full



n41_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_PI/2_BPSK_2592.99MHz_Outer_Full



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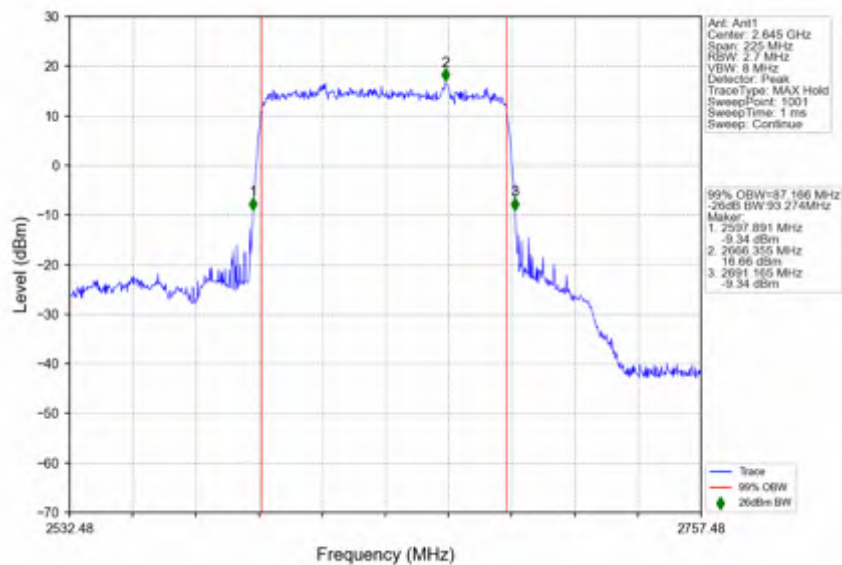
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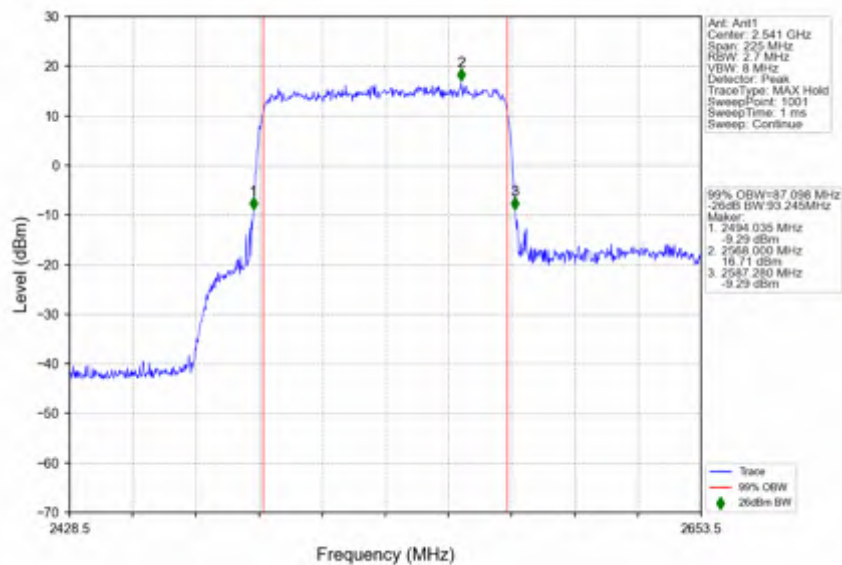
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n41_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_QPSK_2541MHz_Outer_Full



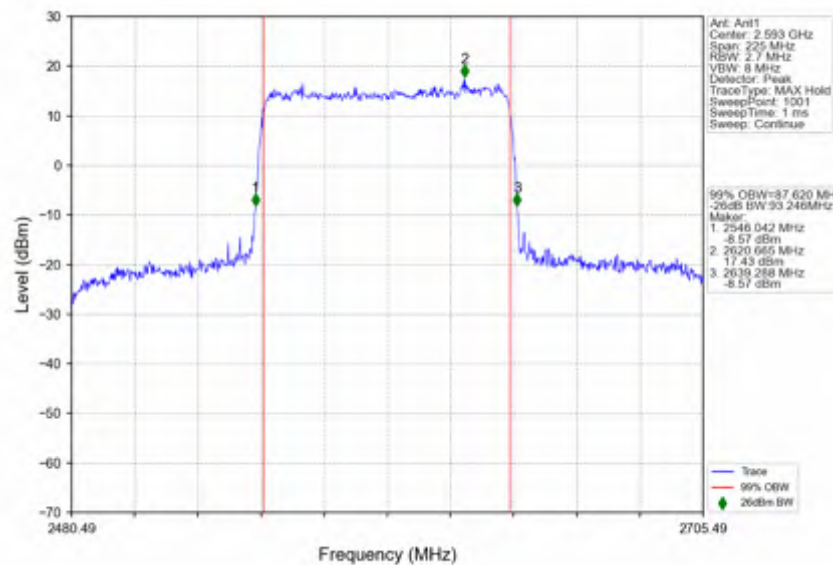
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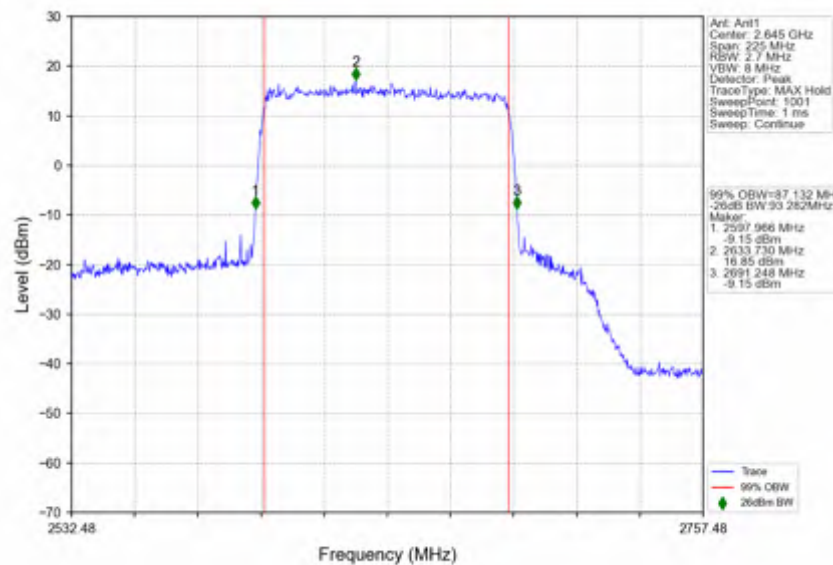
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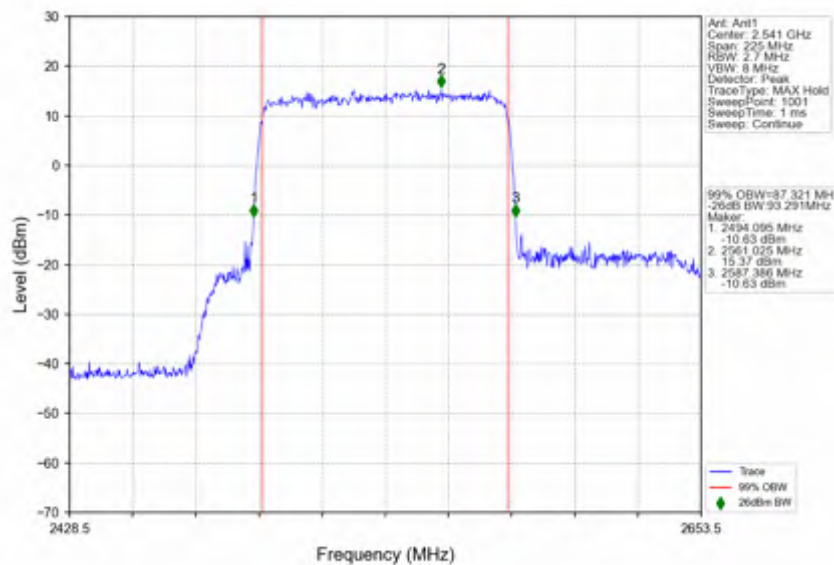


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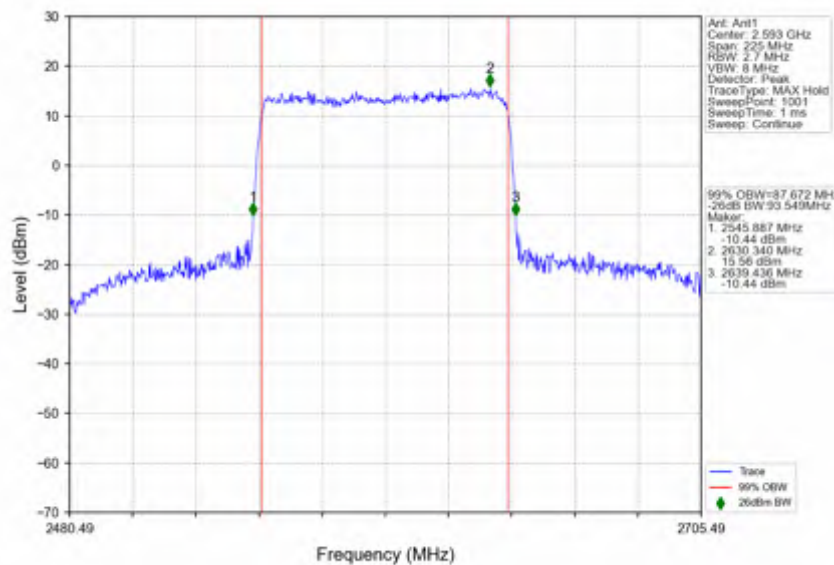
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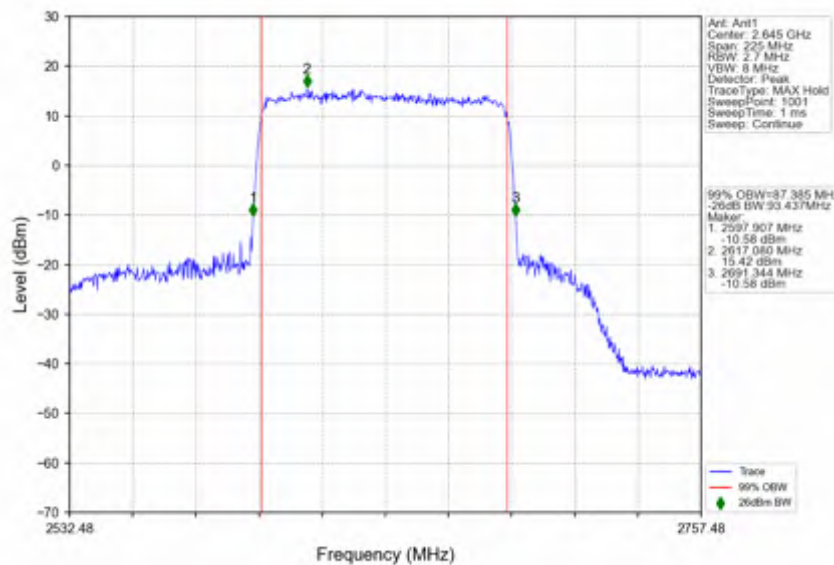
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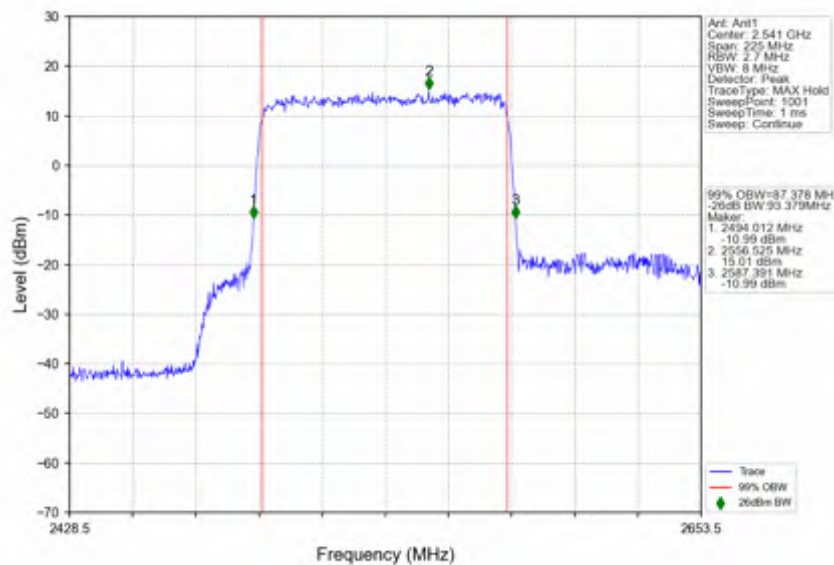
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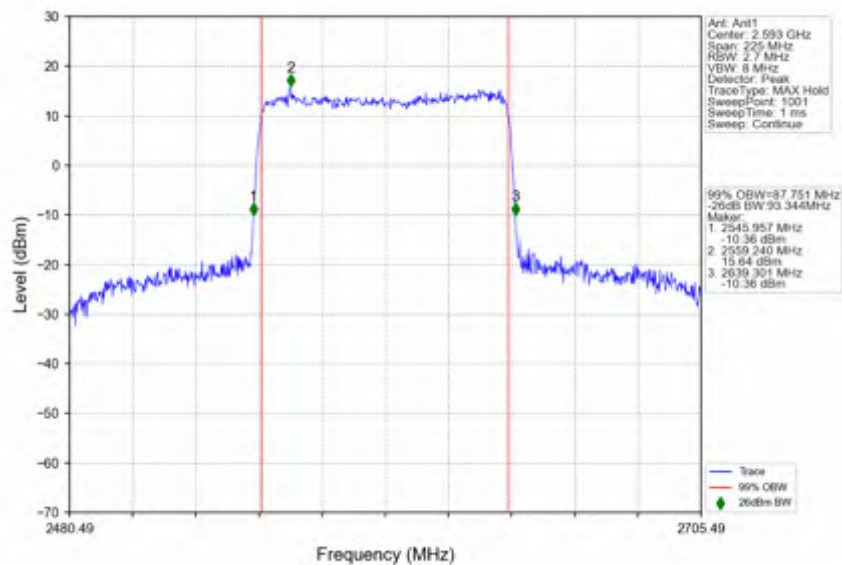
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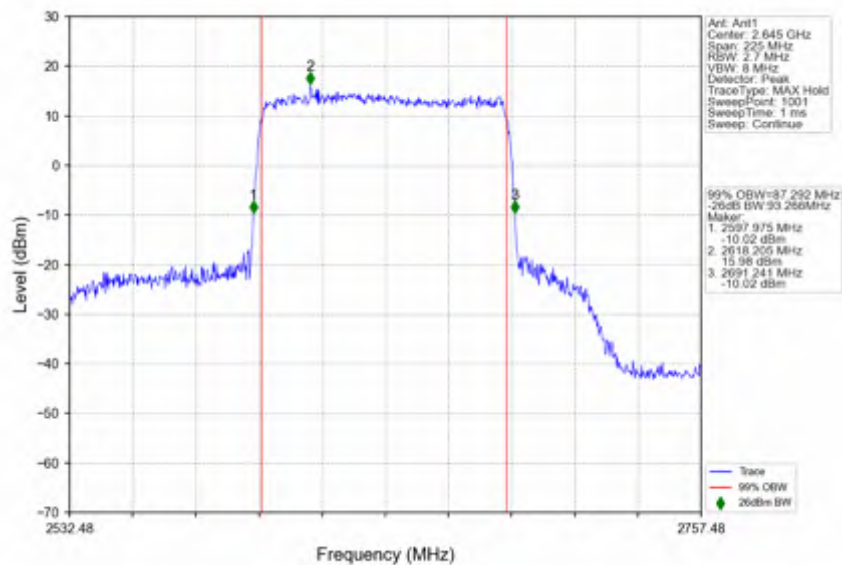
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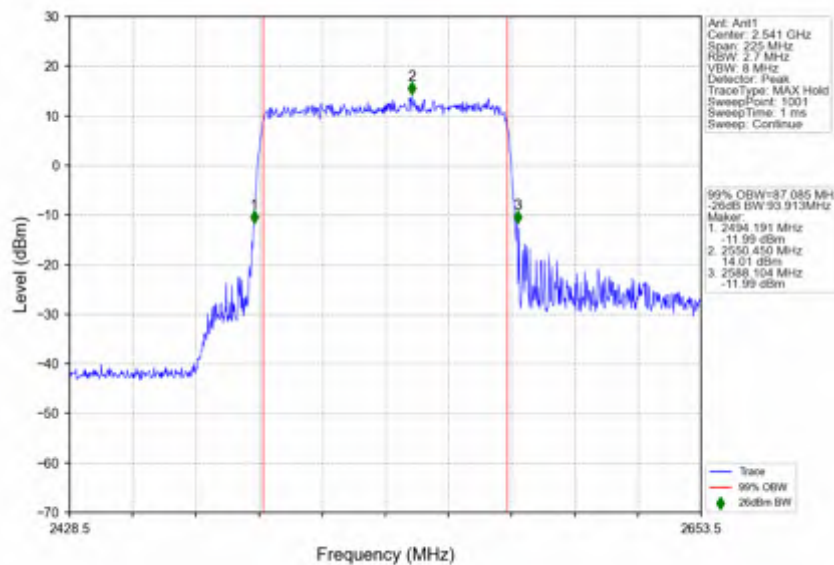
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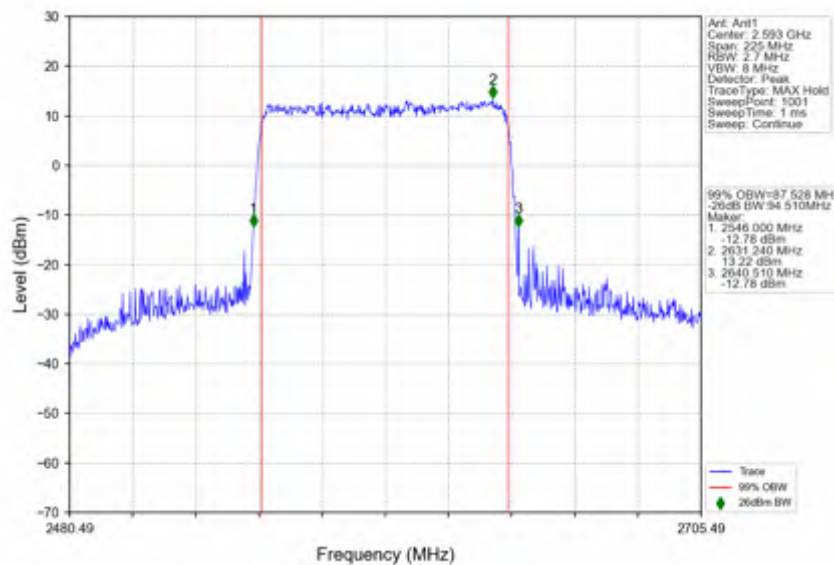
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n41_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_256_QAM_2541MHz_Outer_Full



n41_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_256_QAM_2592.99MHz_Outer_Full

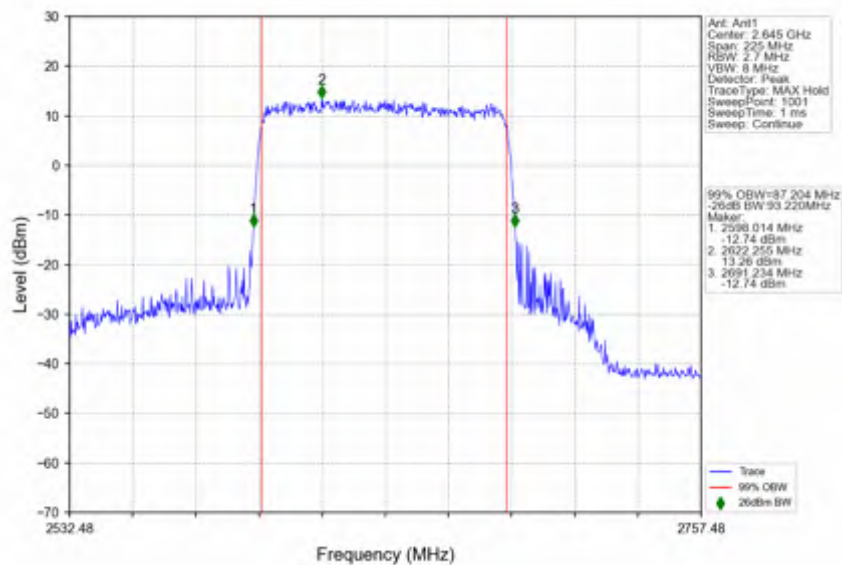


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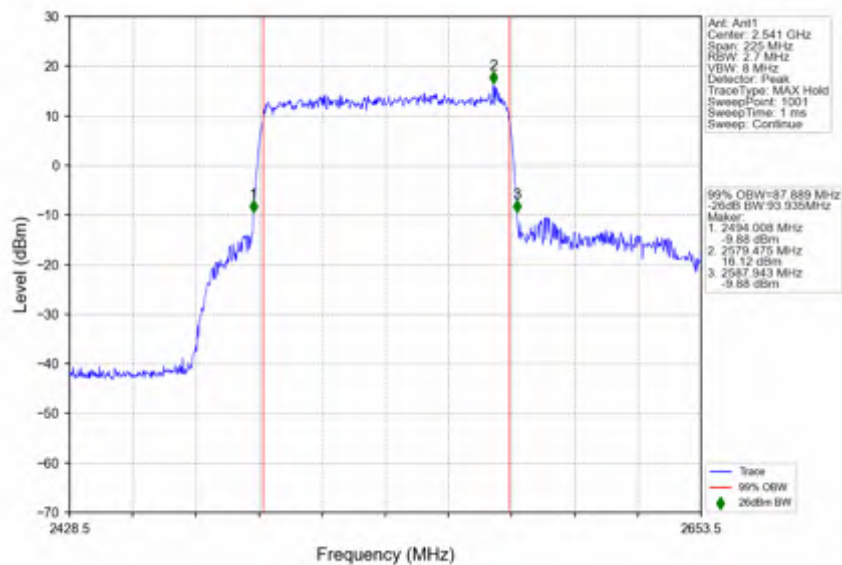
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n41_30kHz_SISO_NTNV_90MHz_DFT-s-OFDM_256_QAM_2644.98MHz_Outer_Full



n41_30kHz_SISO_NTNV_90MHz_CP-OFDM_QPSK_2541MHz_Outer_Full

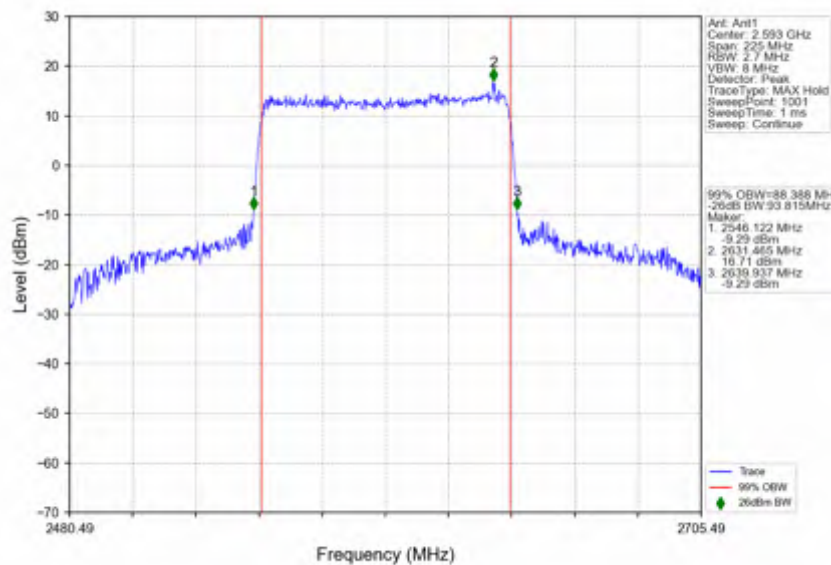


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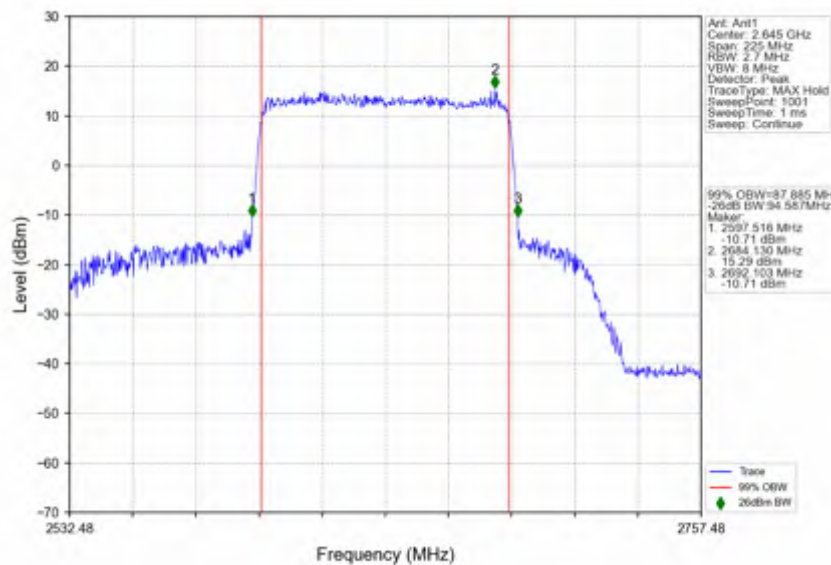
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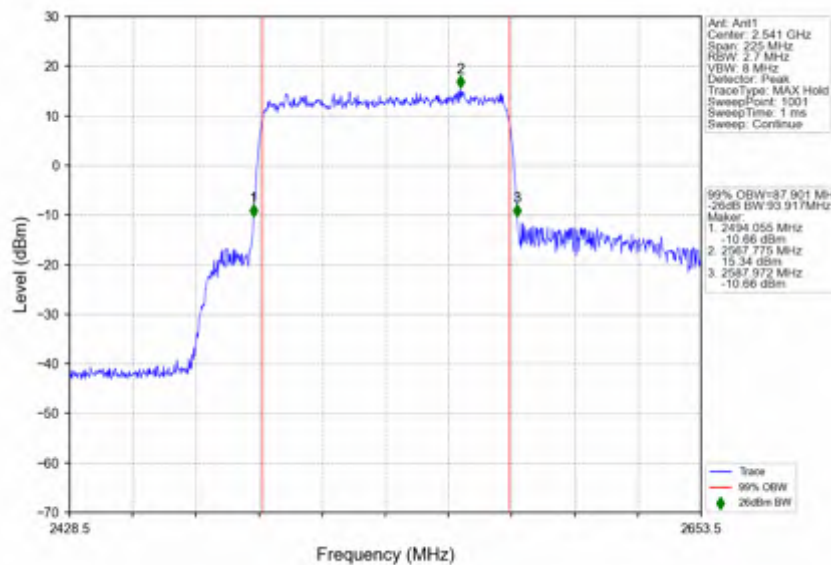
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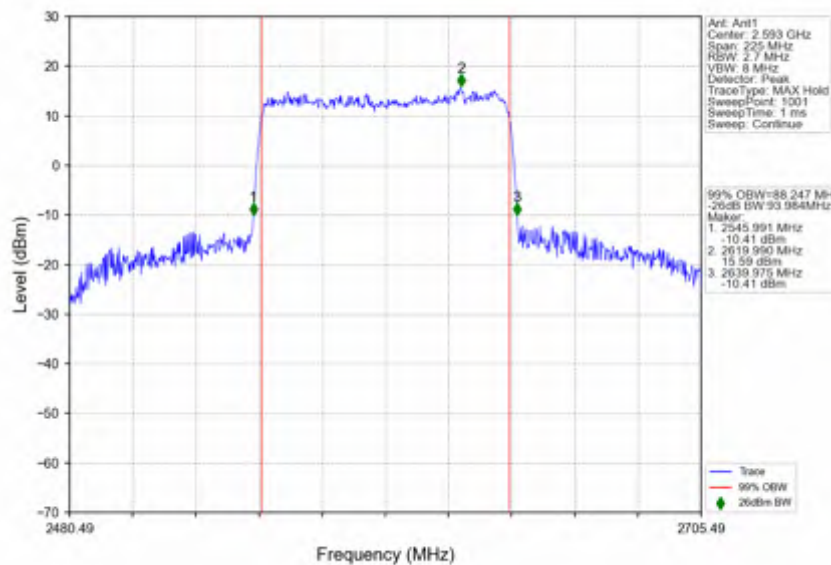
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n41_30kHz_SISO_NTNV_90MHz_CP-OFDM_16_QAM_2541MHz_Outer_Full



n41_30kHz_SISO_NTNV_90MHz_CP-OFDM_16_QAM_2592.99MHz_Outer_Full



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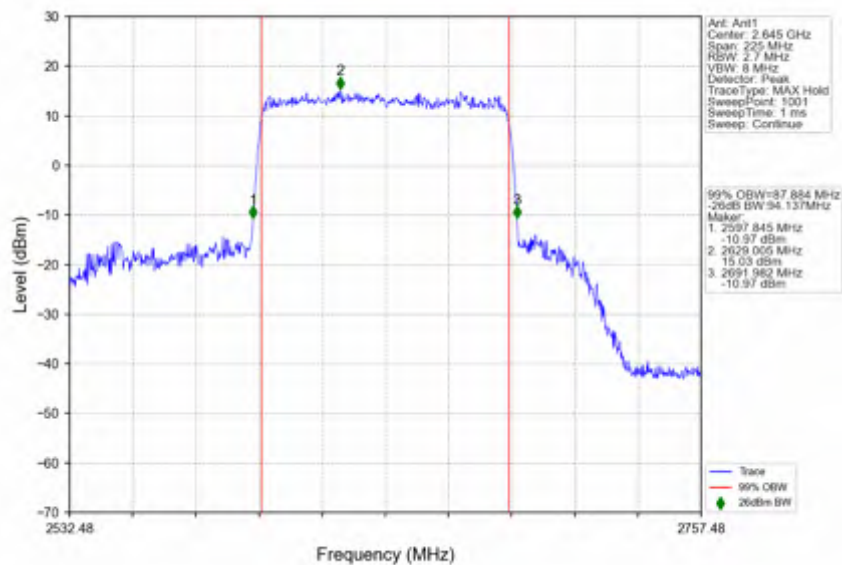
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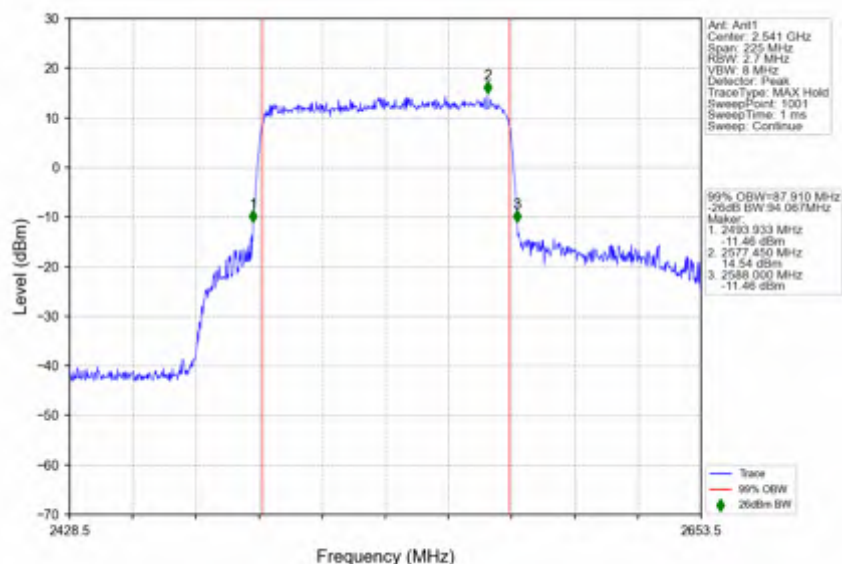
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n41	30kHz	SISO	NTNV	90MHz	CP-OFDM	16 QAM	2644.98MHz	Outer	Full
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n41 30kHz SISO NTN 90MHz CP-OFDM 64 QAM 2541MHz Outer Full

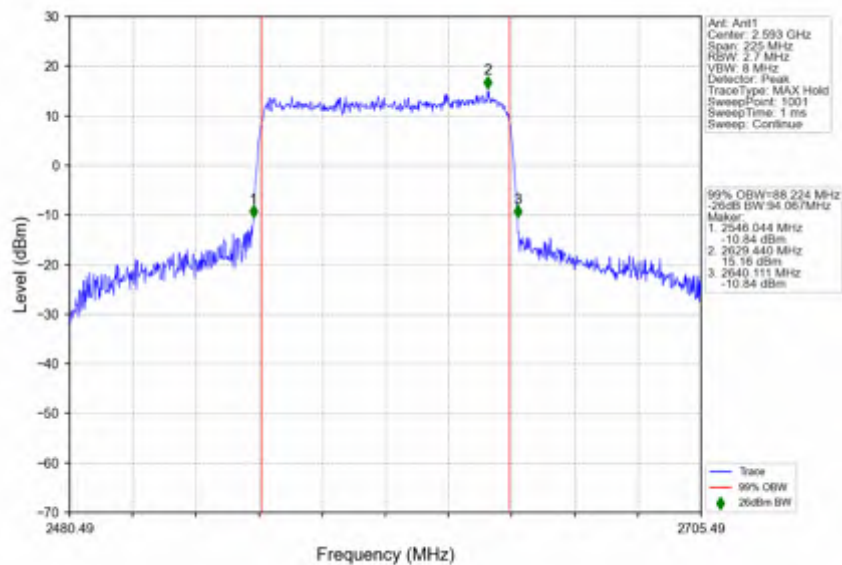


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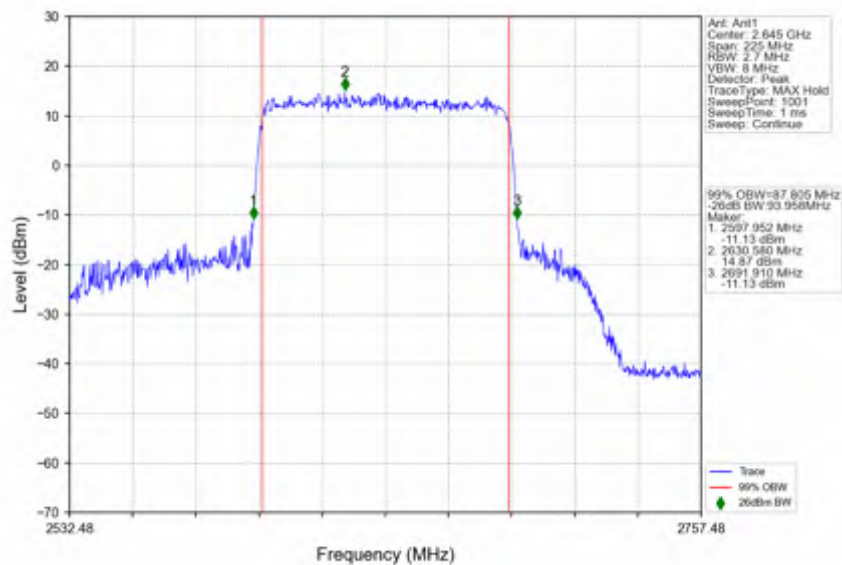
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n41_30kHz_SISO_NTNV_90MHz_CP-OFDM_64_QAM_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_90MHz_CP-OFDM_64_QAM_2644.98MHz_Outer_Full



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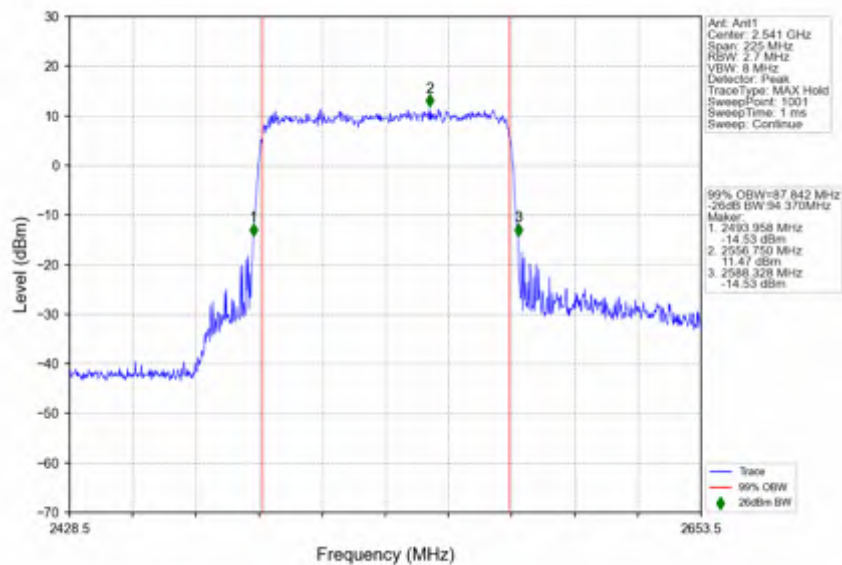
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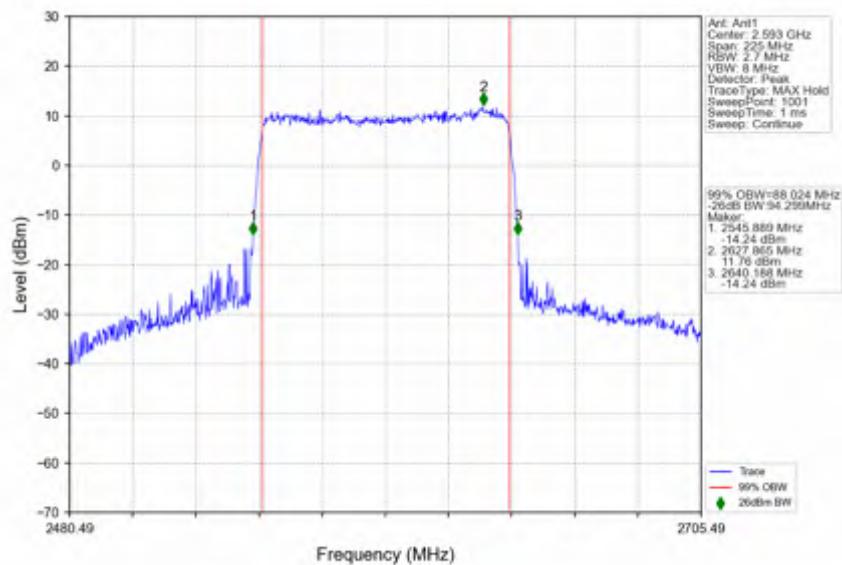
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n41	30kHz	SISO	NTNV	90MHz	CP-OFDM	256 QAM	2541MHz	Outer	Full
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n41_30kHz_SISO_NTNV_90MHz_CP-OFDM_256_QAM_2592.99MHz_Outer_Full

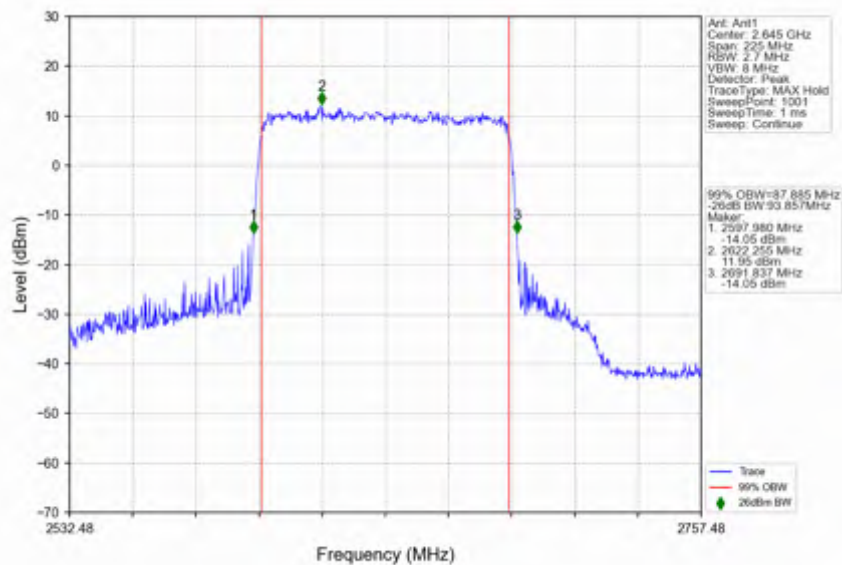


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n41_30kHz_SISO_NTNV_90MHz_CP-OFDM 256 QAM_2644.98MHz_Outer_Full



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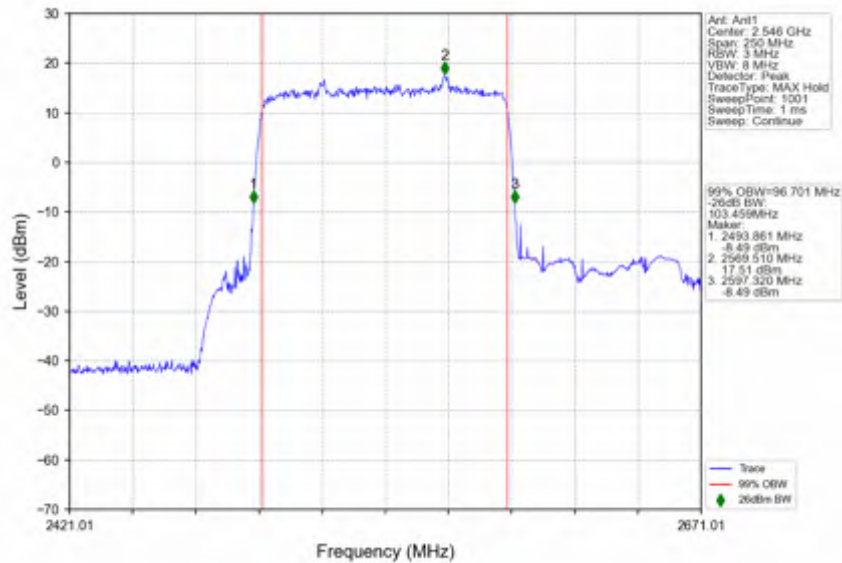
6.16 30k_SISO_100MHz_NTNV

6.16.1 Test Result

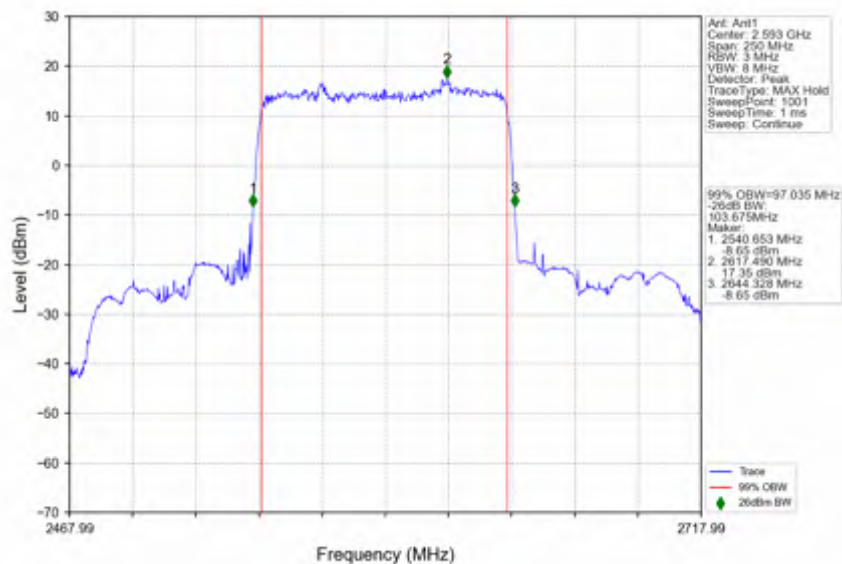
5G NR n41 SCS=30kHz SISO 100MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2546.01	Outer_Full	96.70	103.46	/	Pass
	2592.99	Outer_Full	97.03	103.67	/	Pass
	2640	Outer_Full	96.84	103.33	/	Pass
DFT-s-OFDM QPSK	2546.01	Outer_Full	96.74	103.67	/	Pass
	2592.99	Outer_Full	97.14	104.10	/	Pass
	2640	Outer_Full	96.56	103.46	/	Pass
DFT-s-OFDM 16 QAM	2546.01	Outer_Full	96.80	104.05	/	Pass
	2592.99	Outer_Full	97.13	103.61	/	Pass
	2640	Outer_Full	96.80	103.68	/	Pass
DFT-s-OFDM 64 QAM	2546.01	Outer_Full	96.54	103.56	/	Pass
	2592.99	Outer_Full	96.78	103.56	/	Pass
	2640	Outer_Full	96.42	103.25	/	Pass
DFT-s-OFDM 256 QAM	2546.01	Outer_Full	96.70	103.46	/	Pass
	2592.99	Outer_Full	97.00	103.39	/	Pass
	2640	Outer_Full	96.59	103.44	/	Pass
CP-OFDM QPSK	2546.01	Outer_Full	97.88	105.14	/	Pass
	2592.99	Outer_Full	98.23	105.40	/	Pass
	2640	Outer_Full	97.81	104.70	/	Pass
CP-OFDM 16 QAM	2546.01	Outer_Full	97.64	110.23	/	Pass
	2592.99	Outer_Full	98.12	105.33	/	Pass
	2640	Outer_Full	97.73	104.76	/	Pass
CP-OFDM 64 QAM	2546.01	Outer_Full	97.97	112.21	/	Pass
	2592.99	Outer_Full	98.17	105.95	/	Pass
	2640	Outer_Full	98.00	104.99	/	Pass
CP-OFDM 256 QAM	2546.01	Outer_Full	97.57	104.38	/	Pass
	2592.99	Outer_Full	98.04	104.53	/	Pass
	2640	Outer_Full	97.62	104.57	/	Pass

6.16.2 Test Graph

n41_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM_PI/2_BPSK_2546.01MHz_Outer_Full



n41_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM_PI/2_BPSK_2592.99MHz_Outer_Full



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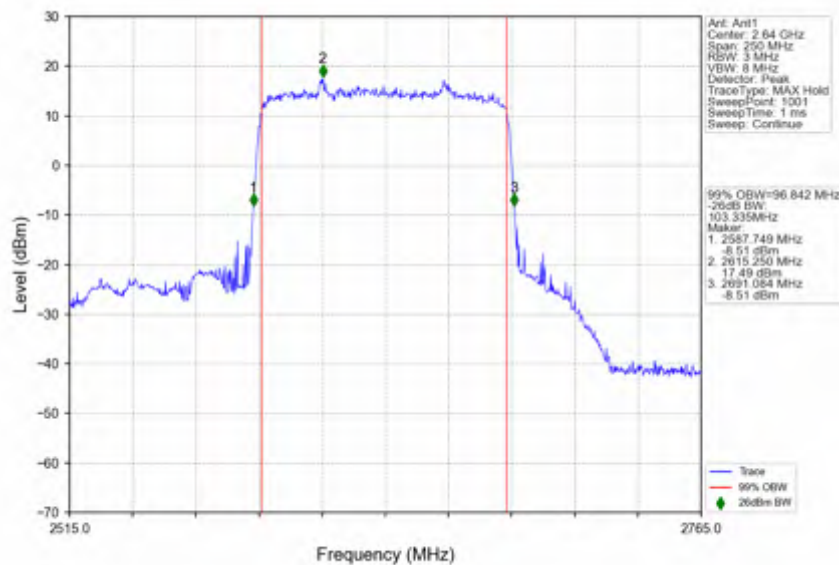
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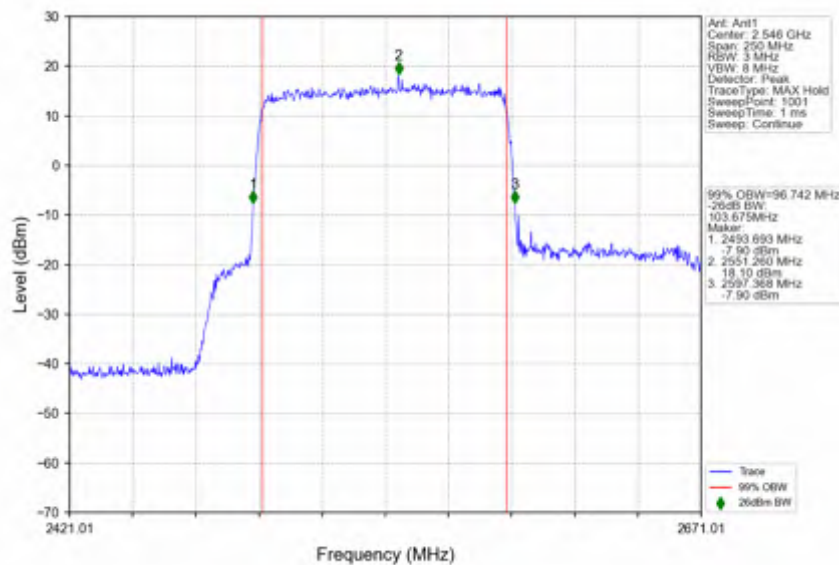
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n41_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM_QPSK_2546.01MHz_Outer_Full

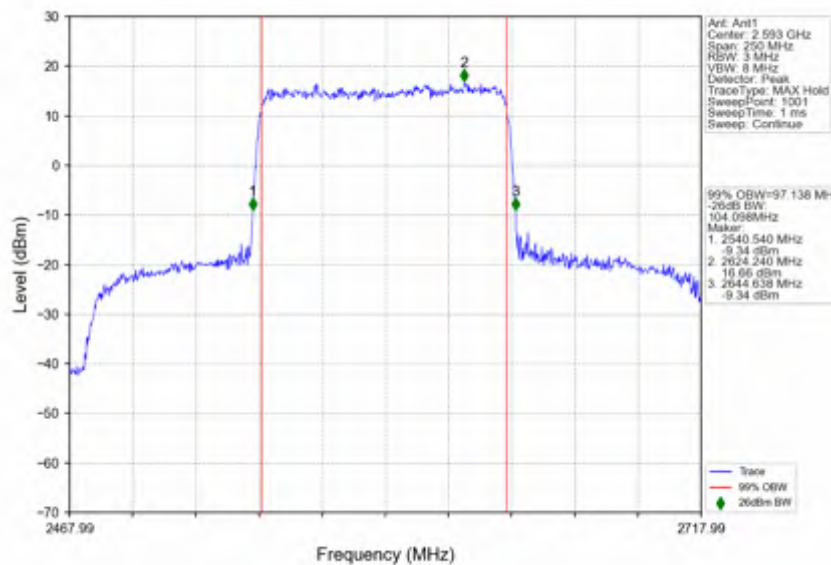


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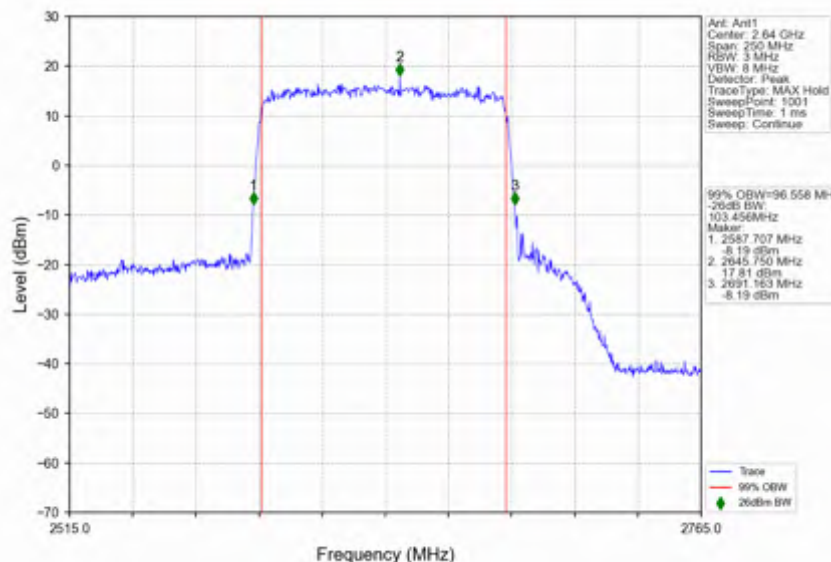
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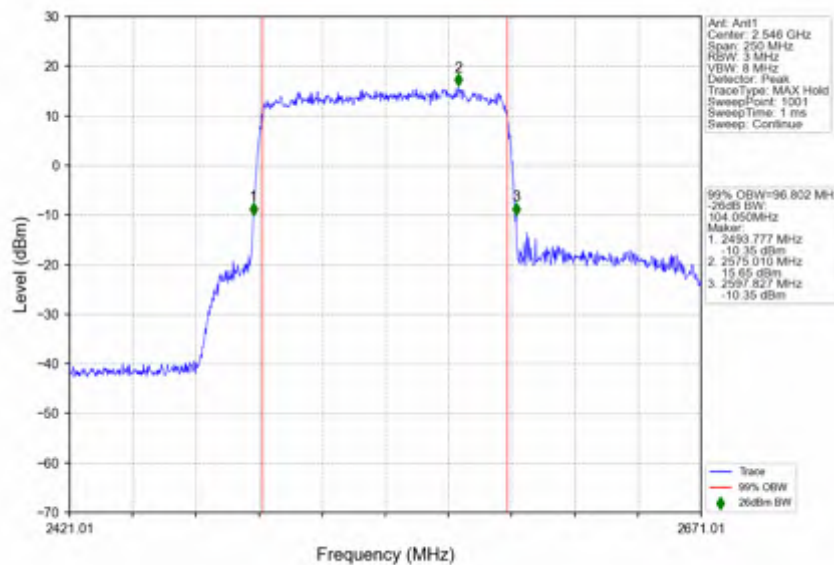
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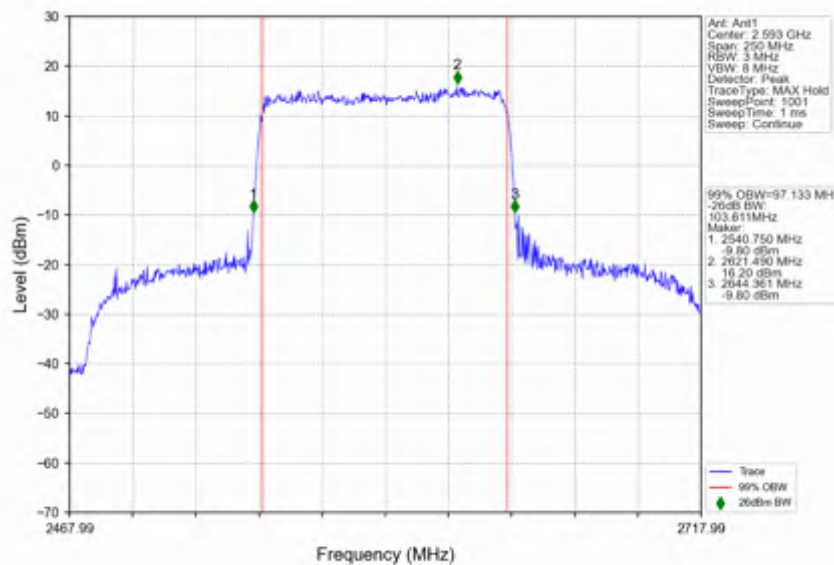
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n41_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM_16_QAM_2546.01MHz_Outer_Full



n41_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM_16_QAM_2592.99MHz_Outer_Full



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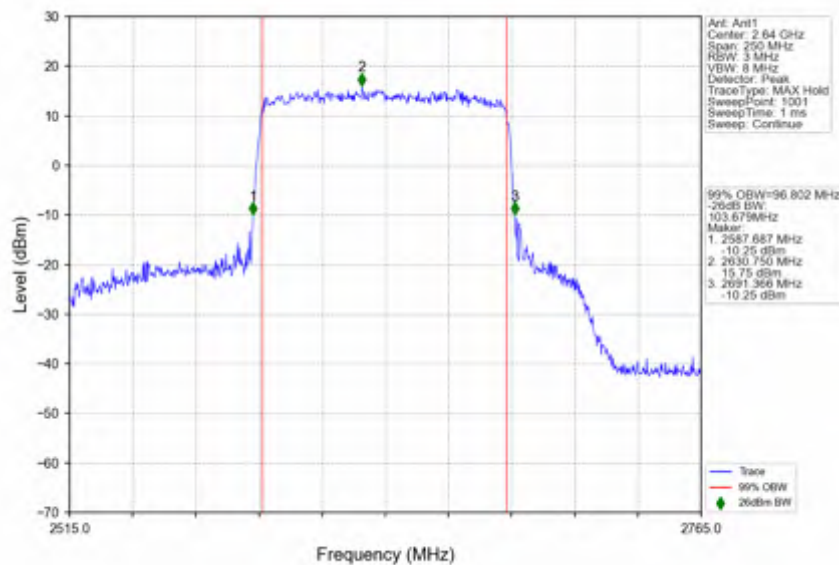
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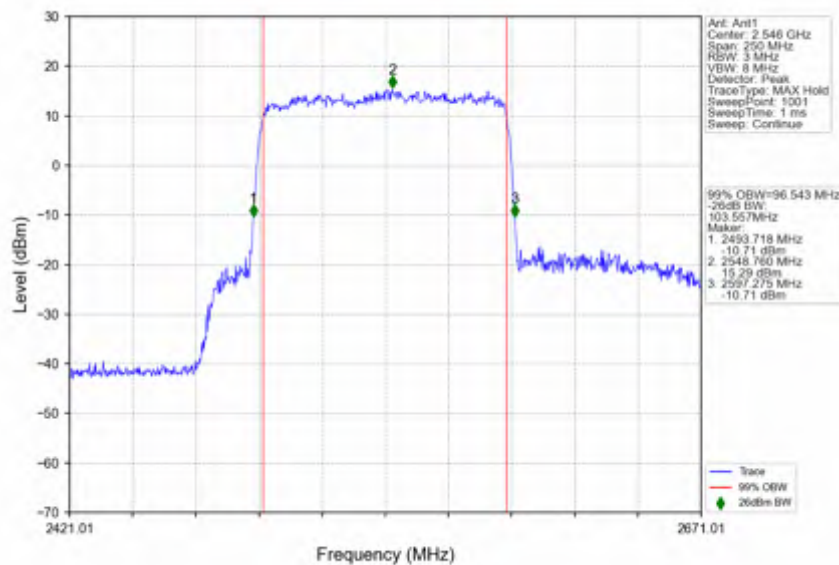
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n41_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 16 QAM 2640MHz_Outer_Full



n41_30kHz_SISO_NTNV_100MHz_DFT-s-OFDM 64 QAM 2546.01MHz_Outer_Full



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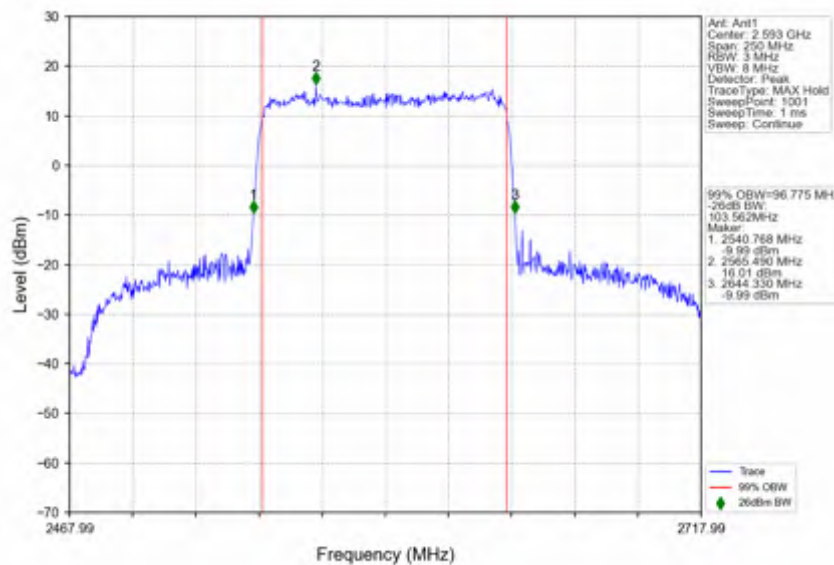
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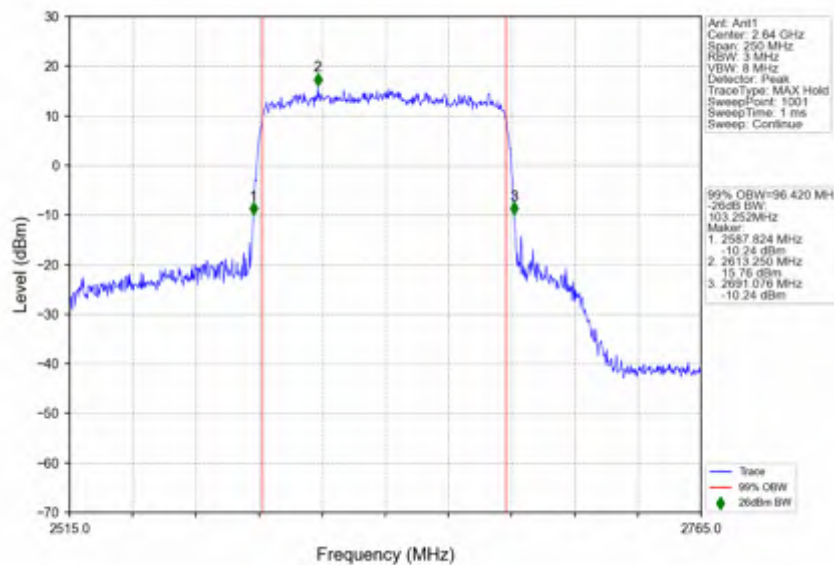
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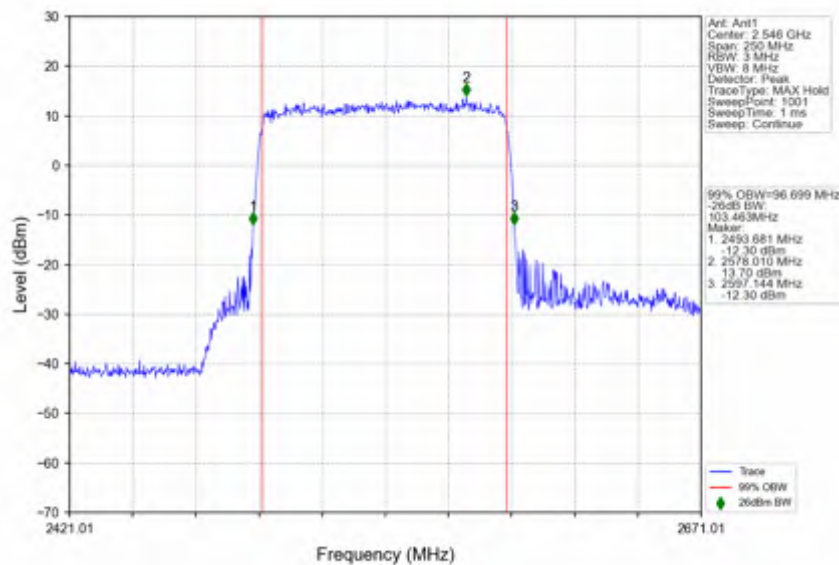
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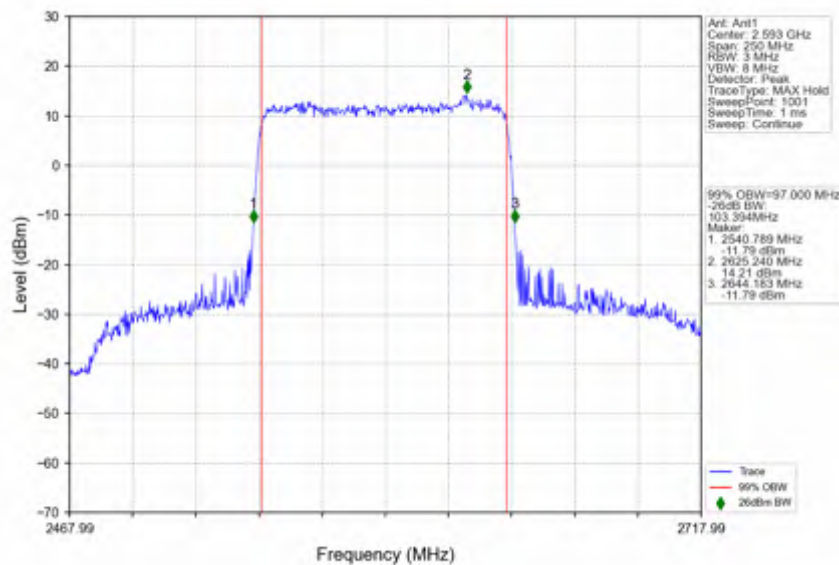
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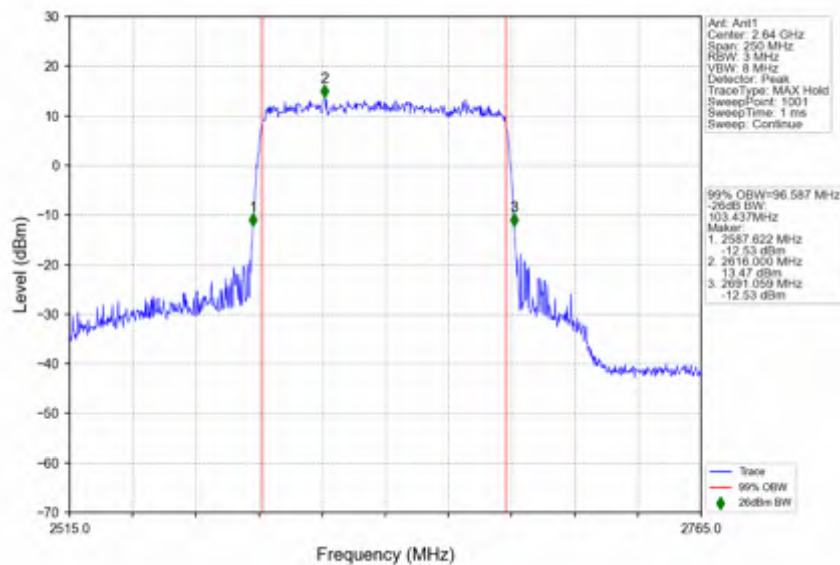
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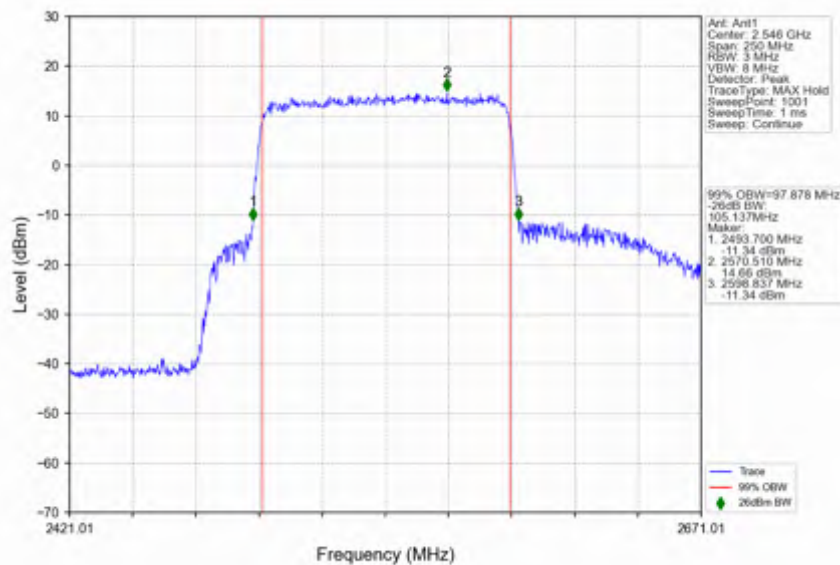
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n41_30kHz_SISO_NTNV_100MHz_CP-OFDM_QPSK_2546.01MHz_Outer_Full

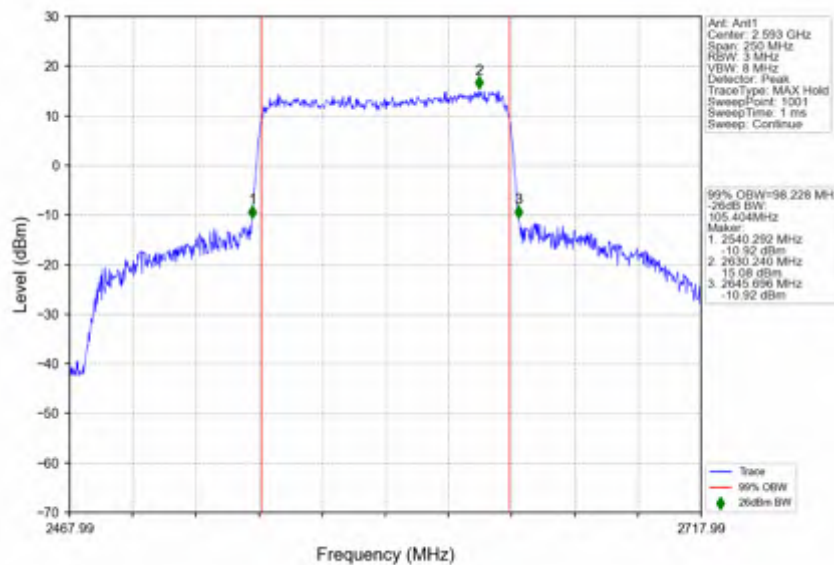


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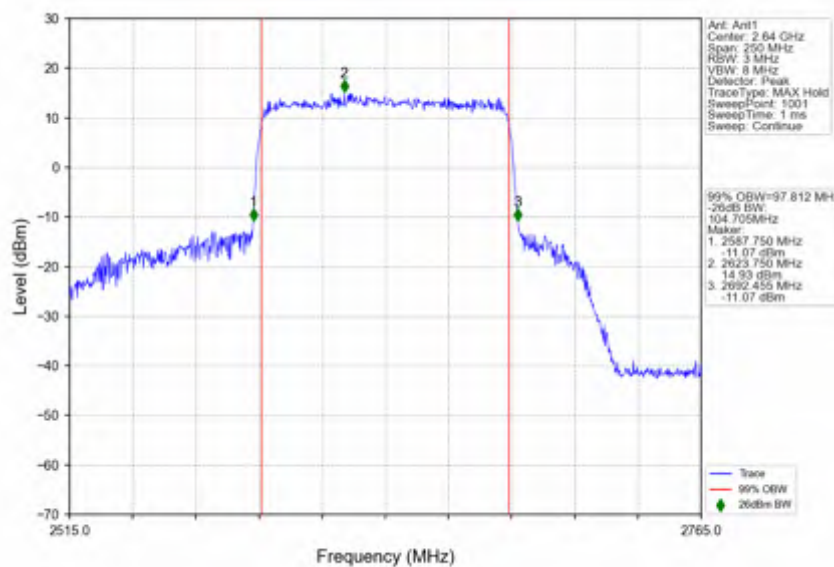
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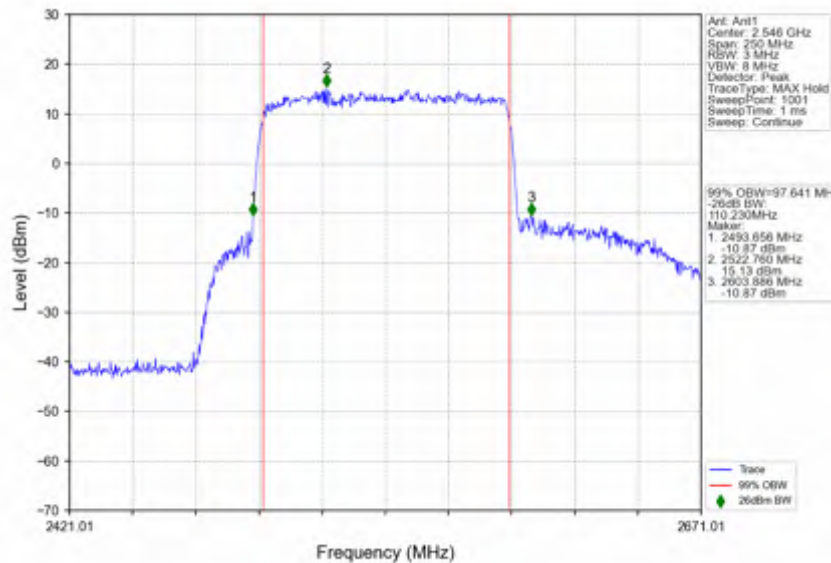
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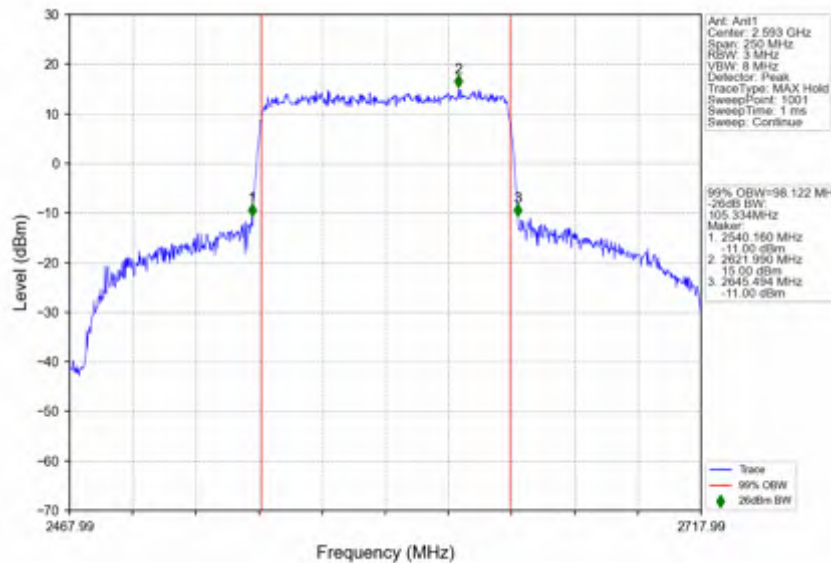
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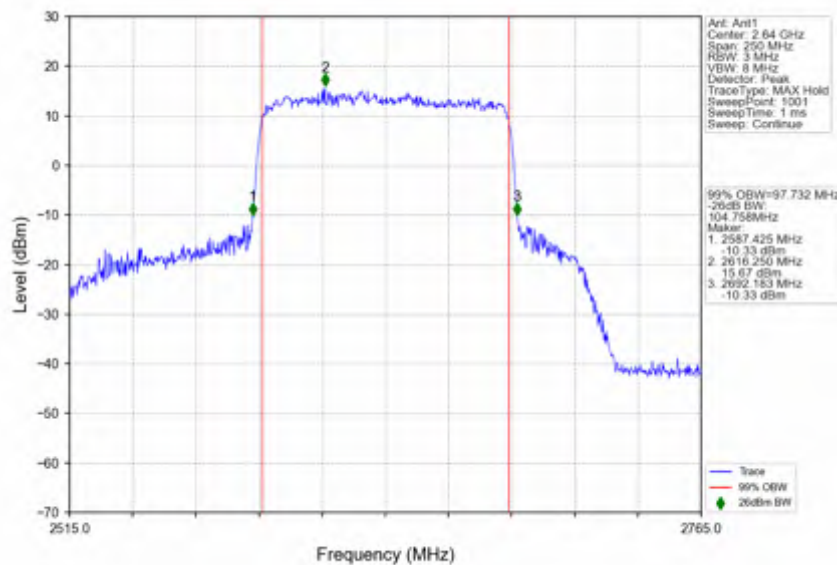
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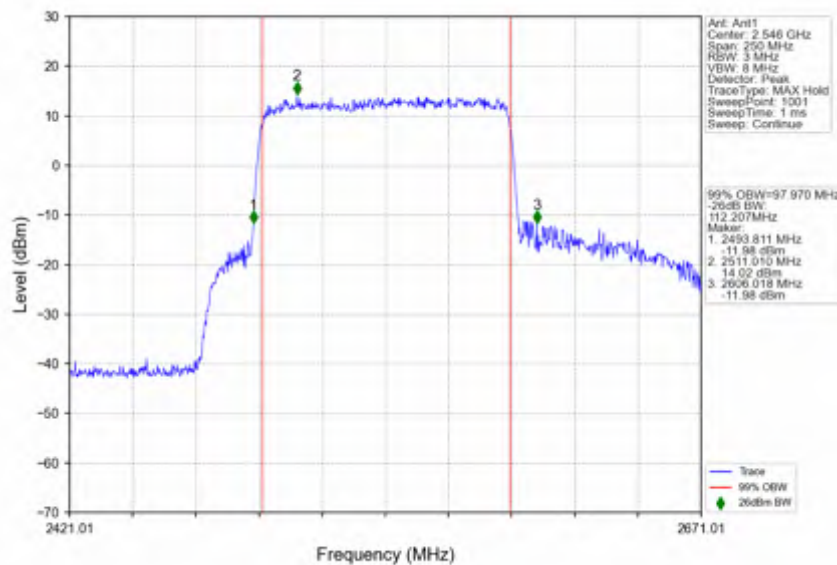
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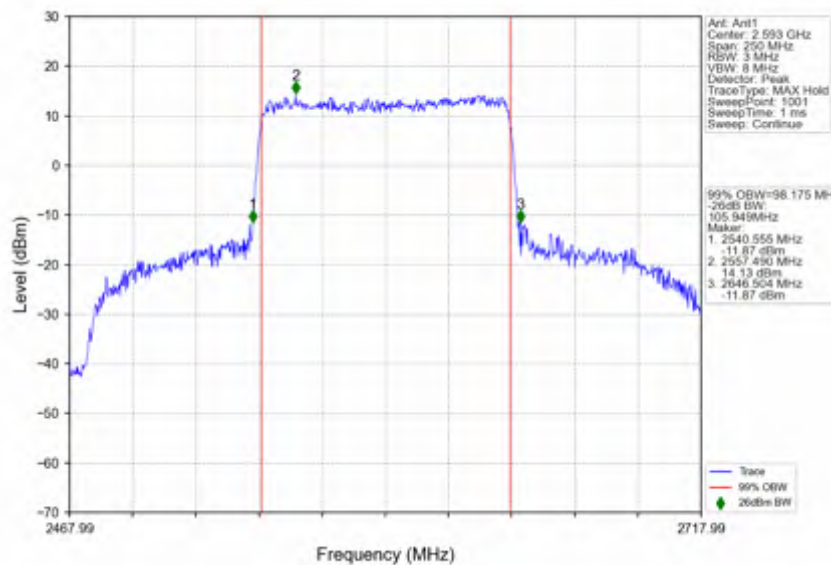
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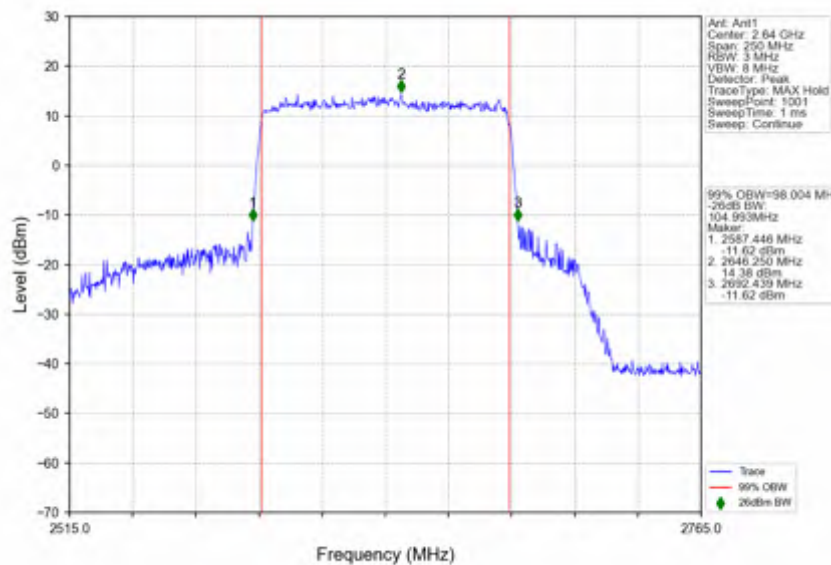
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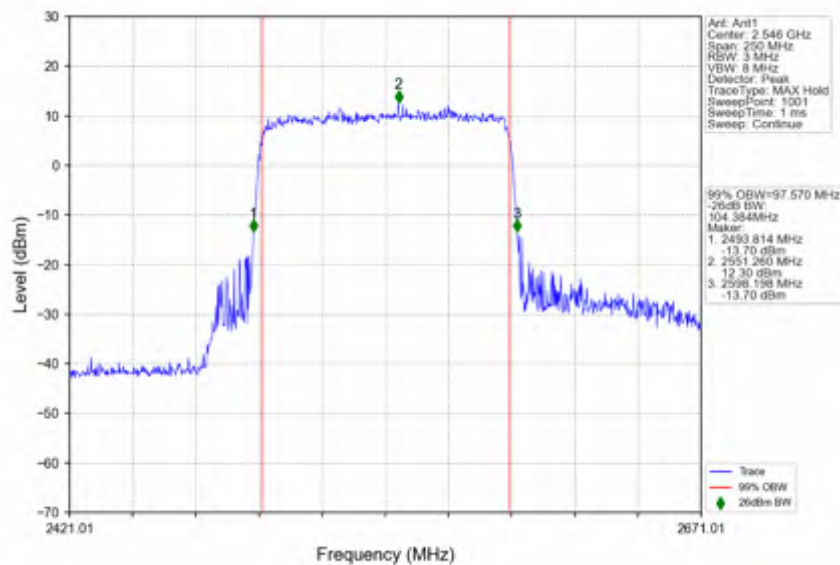
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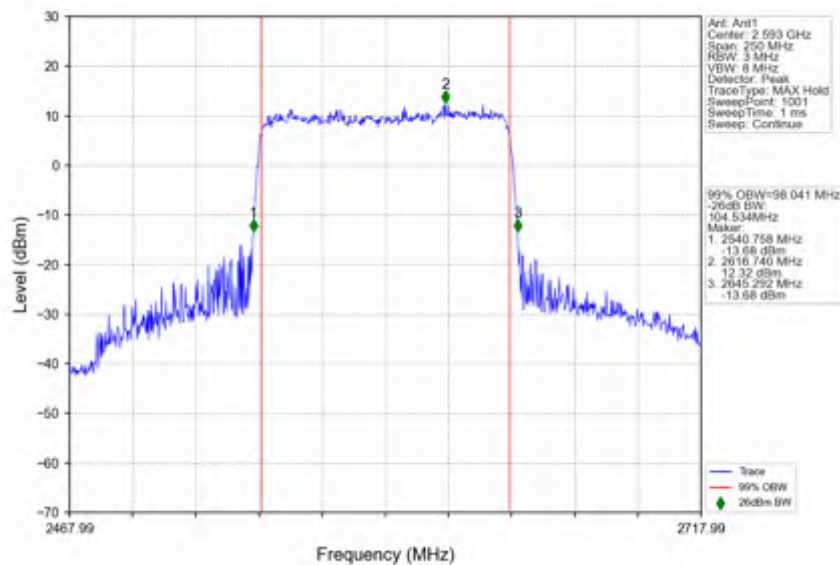
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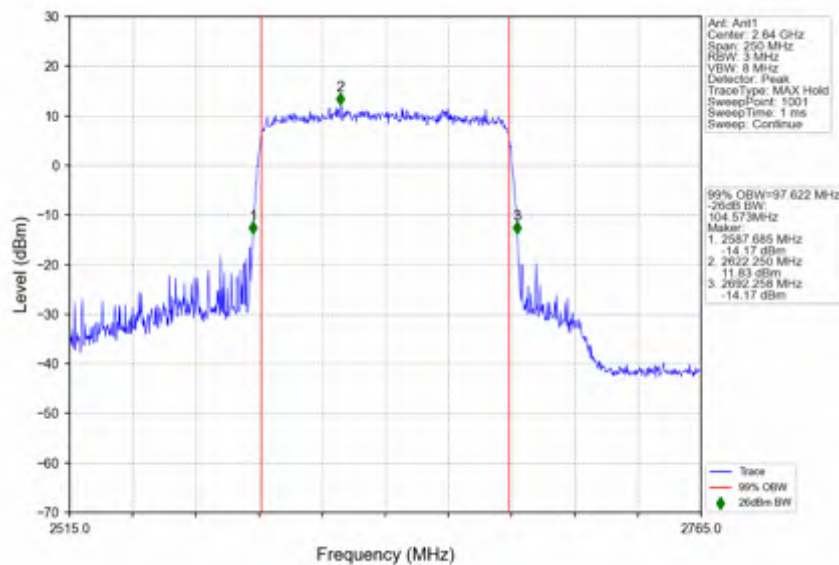
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7. 99% & 26dB Bandwidth

7.1 n66 15k_SISO_5MHz_NTNV

7.1.1 Test Result

5G NR n66 SCS=15kHz SISO 5MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1712.5	Outer_Full	4.51	4.97	/	Pass
	1745	Outer_Full	4.52	4.97	/	Pass
	1777.5	Outer_Full	4.52	4.94	/	Pass
DFT-s-OFDM QPSK	1712.5	Outer_Full	4.55	5.06	/	Pass
	1745	Outer_Full	4.57	5.06	/	Pass
	1777.5	Outer_Full	4.53	5.02	/	Pass
DFT-s-OFDM 16 QAM	1712.5	Outer_Full	4.52	5.05	/	Pass
	1745	Outer_Full	4.51	5.01	/	Pass
	1777.5	Outer_Full	4.51	5.01	/	Pass
DFT-s-OFDM 64 QAM	1712.5	Outer_Full	4.54	5.00	/	Pass
	1745	Outer_Full	4.53	5.00	/	Pass
	1777.5	Outer_Full	4.52	5.00	/	Pass
DFT-s-OFDM 256 QAM	1712.5	Outer_Full	4.53	5.02	/	Pass
	1745	Outer_Full	4.52	5.02	/	Pass
	1777.5	Outer_Full	4.52	5.01	/	Pass
CP-OFDM QPSK	1712.5	Outer_Full	4.54	5.03	/	Pass
	1745	Outer_Full	4.53	5.05	/	Pass
	1777.5	Outer_Full	4.53	5.05	/	Pass
CP-OFDM 16 QAM	1712.5	Outer_Full	4.53	5.03	/	Pass
	1745	Outer_Full	4.52	5.02	/	Pass
	1777.5	Outer_Full	4.52	5.00	/	Pass
CP-OFDM 64 QAM	1712.5	Outer_Full	4.52	5.04	/	Pass
	1745	Outer_Full	4.52	5.03	/	Pass
	1777.5	Outer_Full	4.52	5.05	/	Pass
CP-OFDM 256 QAM	1712.5	Outer_Full	4.52	5.06	/	Pass
	1745	Outer_Full	4.51	4.98	/	Pass
	1777.5	Outer_Full	4.51	5.05	/	Pass



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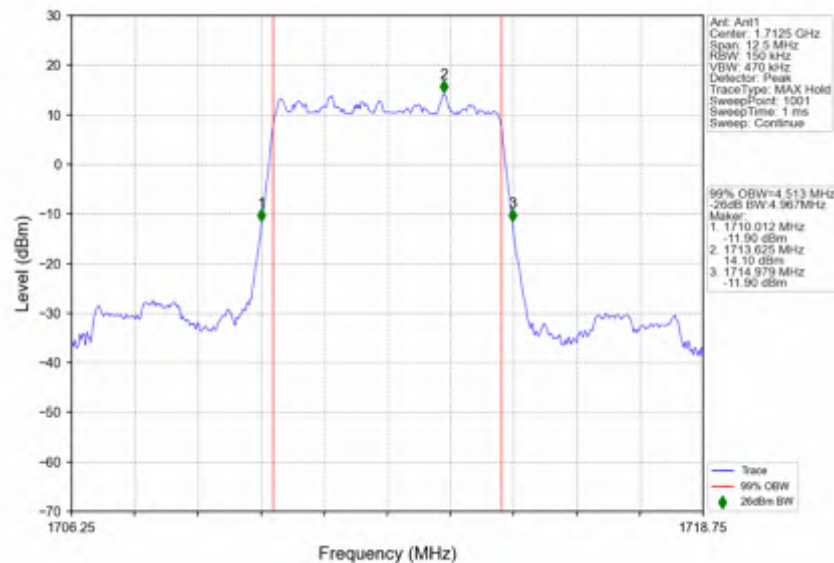
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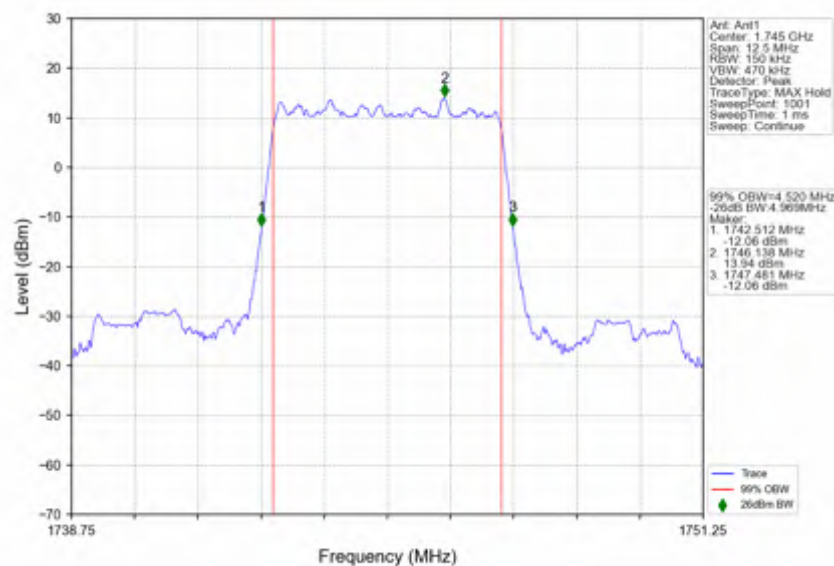
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7.1.2 Test Graph

n66_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_1712.5MHz_Outer_Full



n66_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_1745MHz_Outer_Full



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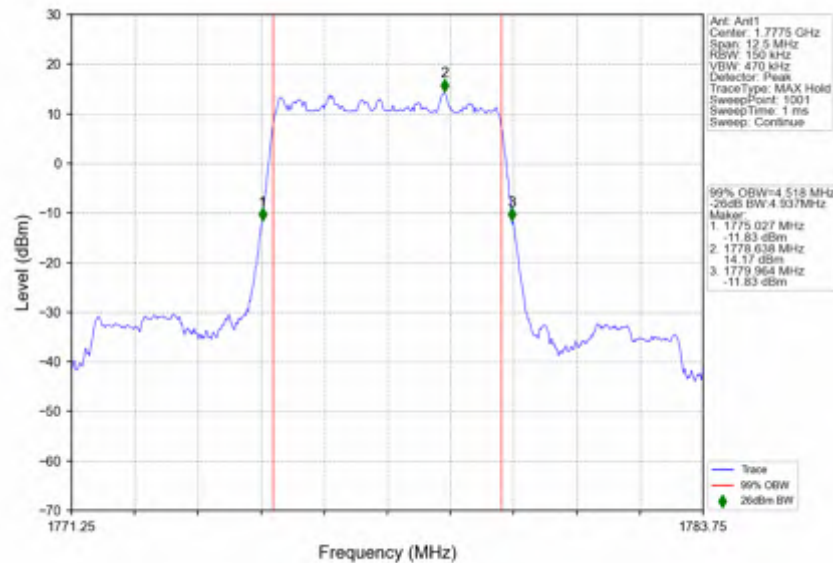
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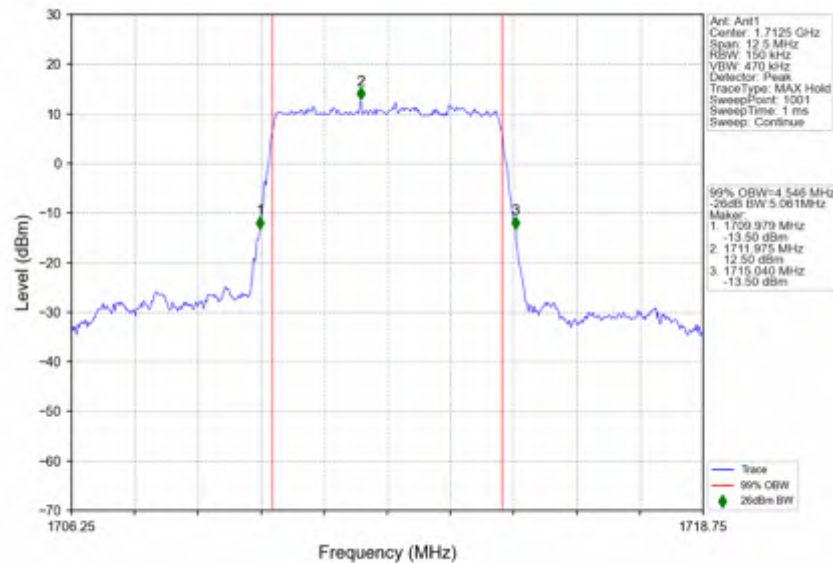
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n66_15kHz_SISO_NTNV_5MHz_DFT-s-OFDM PI/2 BPSK_1777.5MHz_Outer_Full



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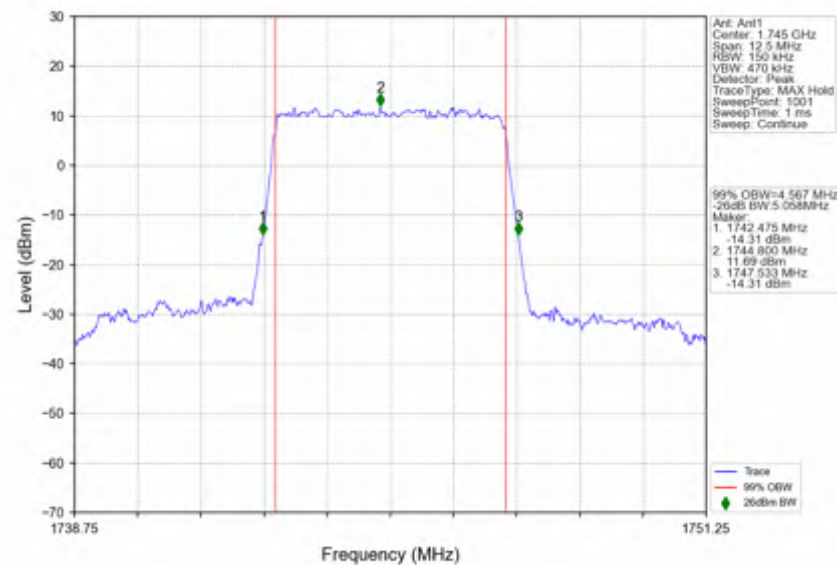
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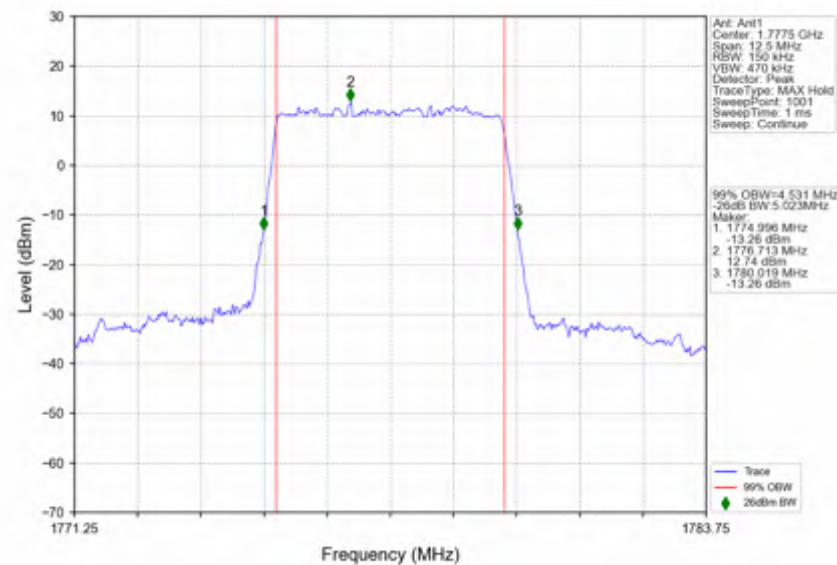
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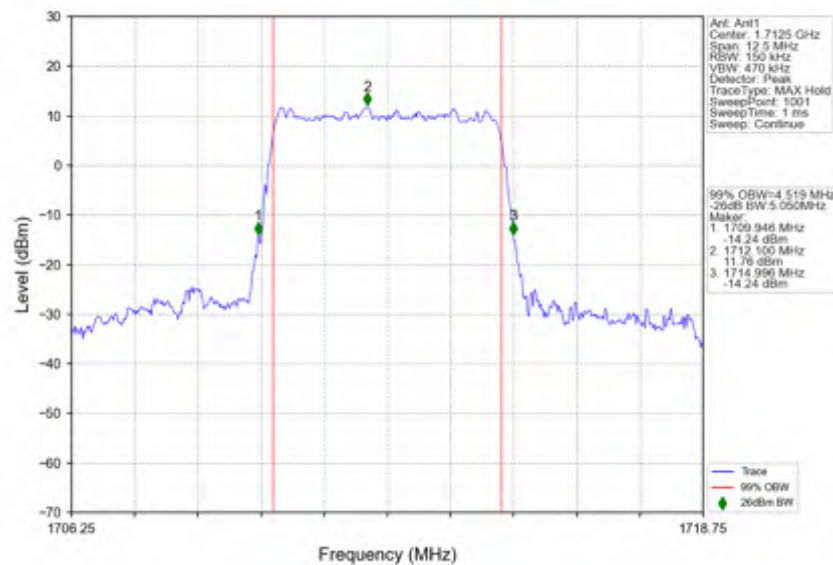
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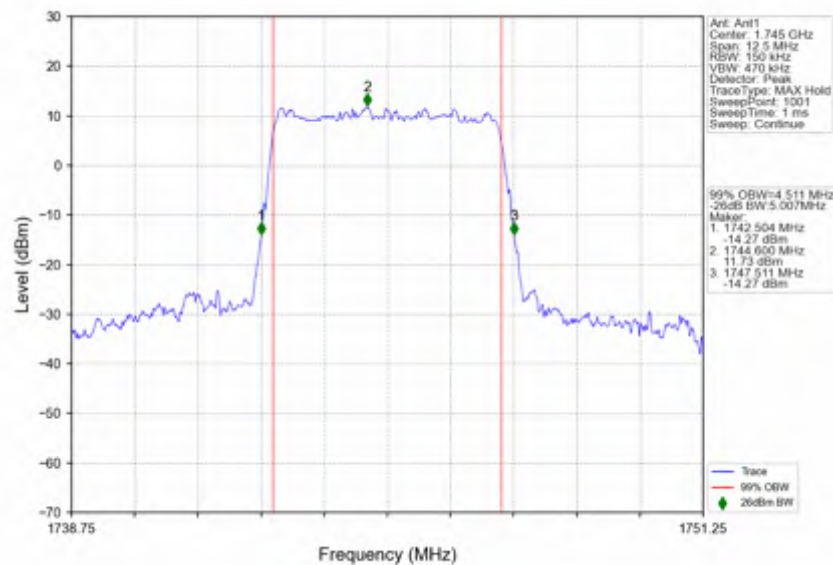
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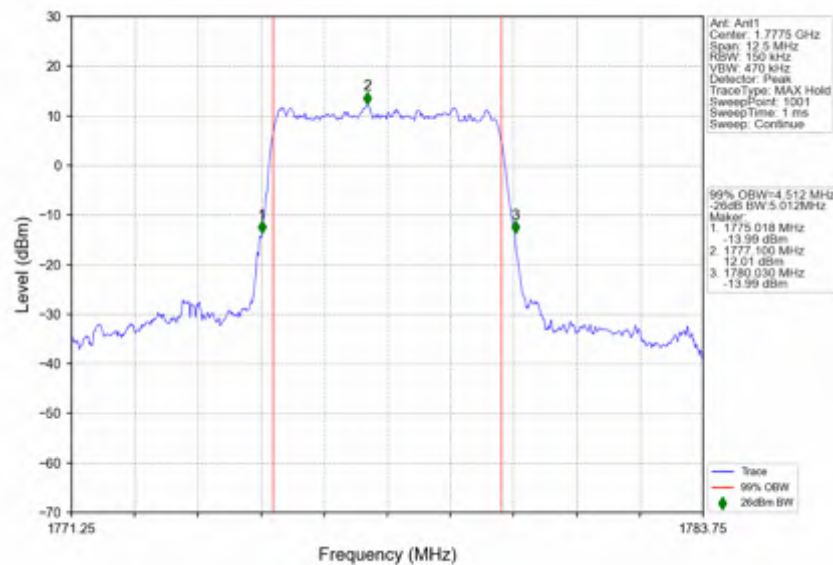
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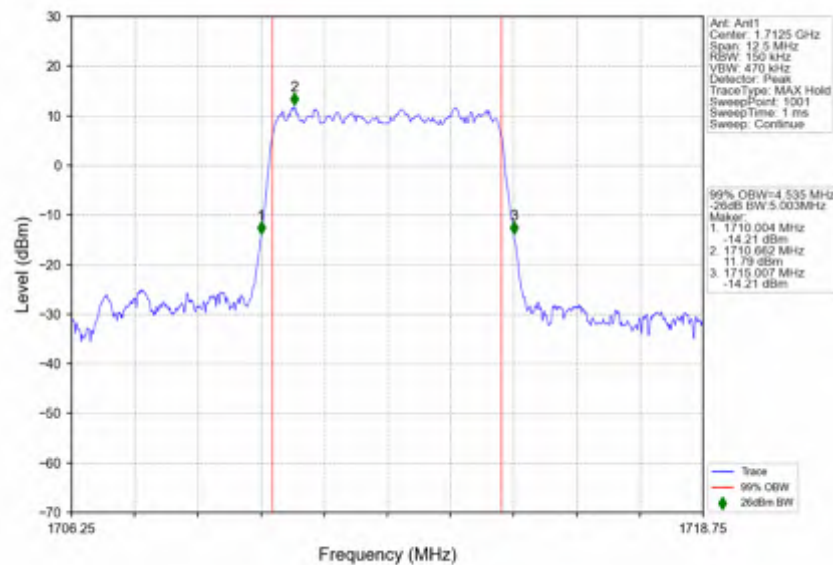
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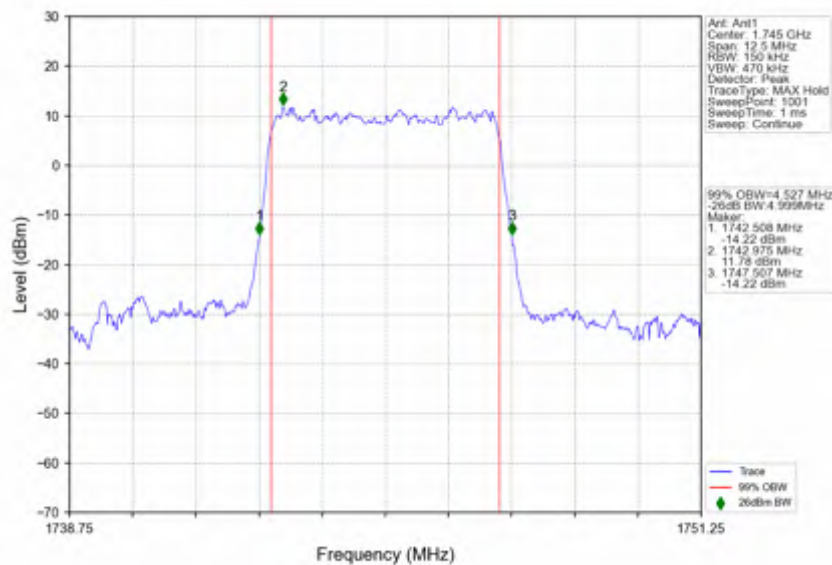
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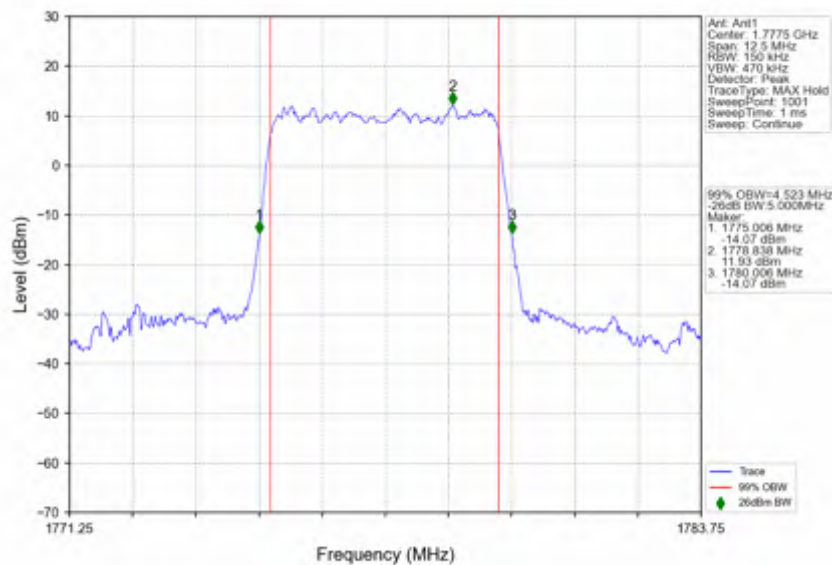
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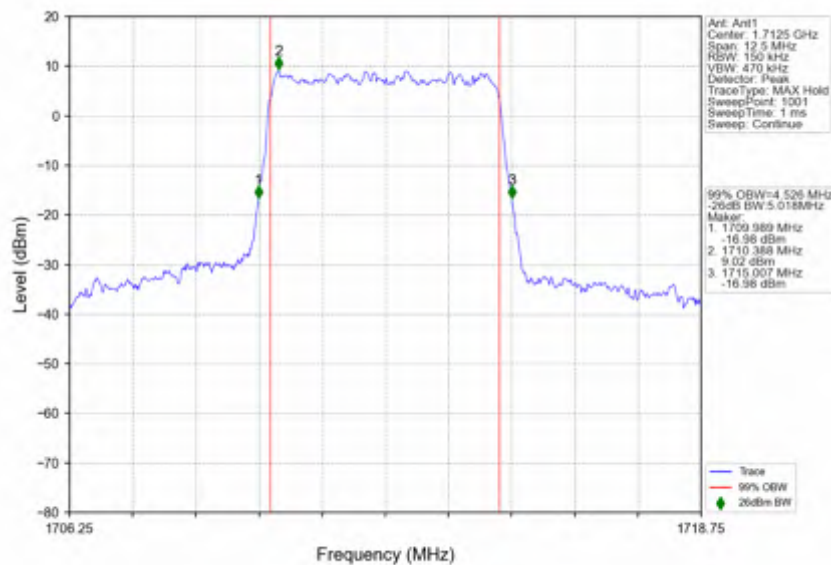
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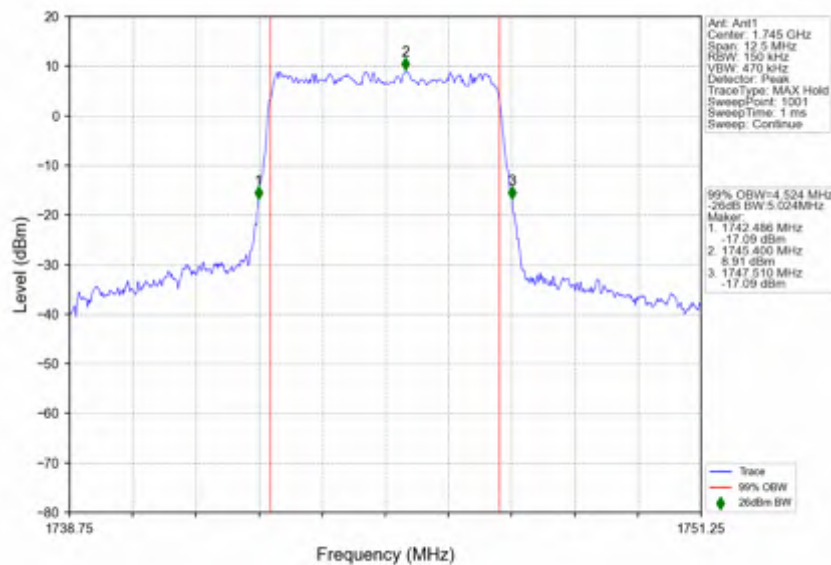
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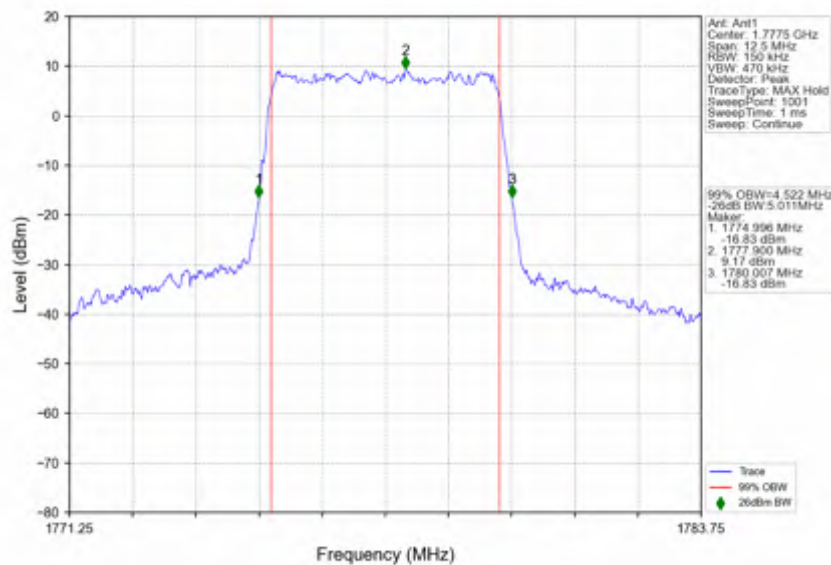
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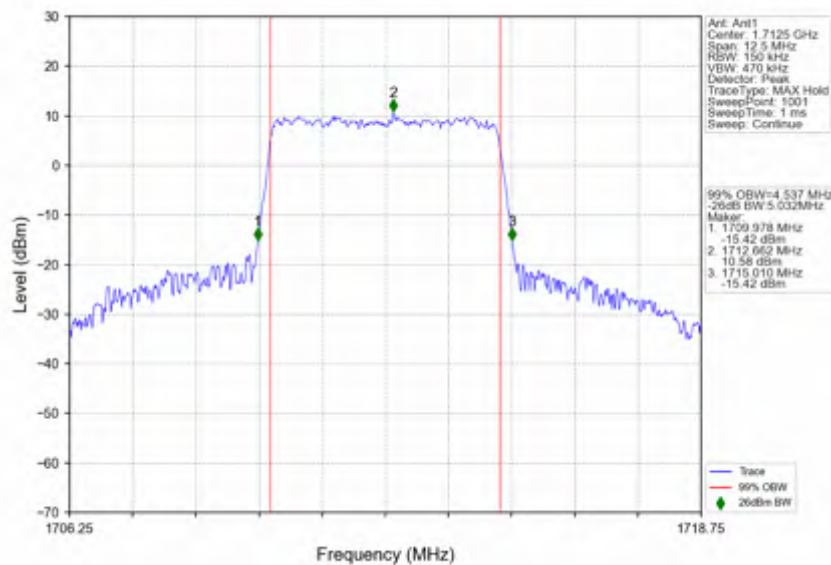
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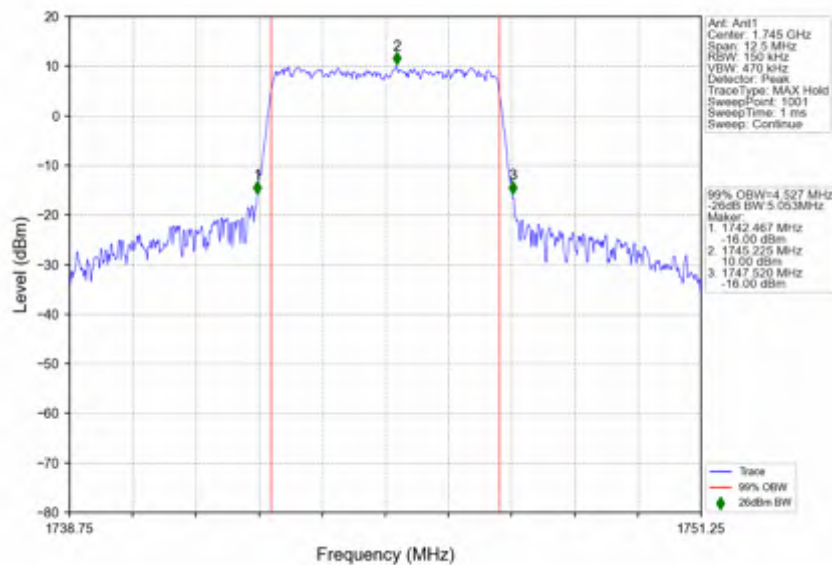
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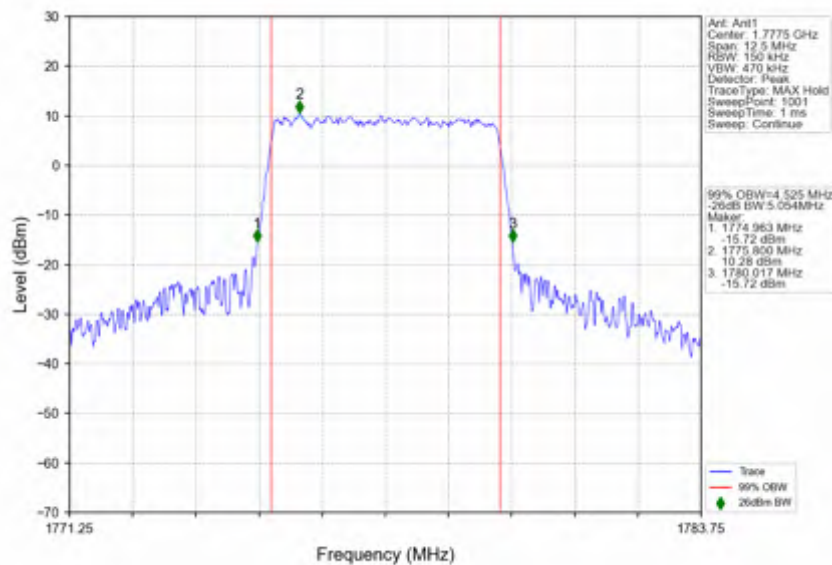
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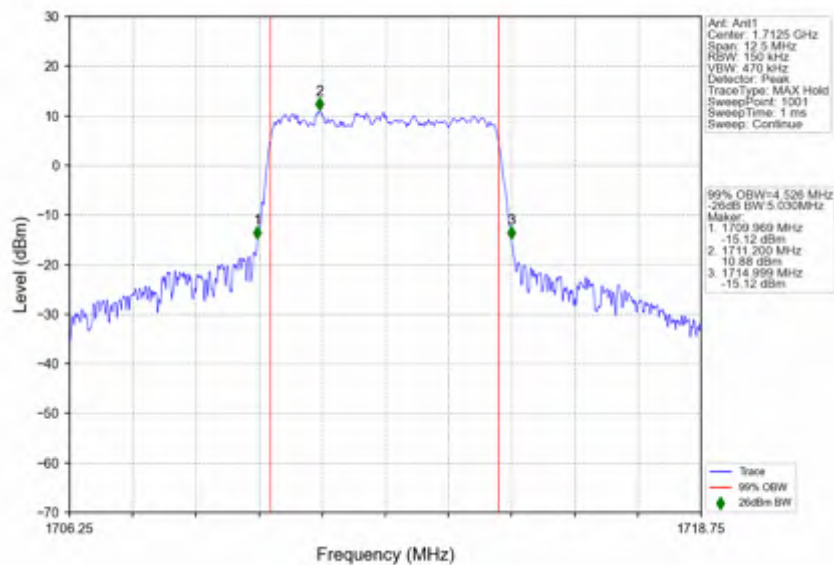
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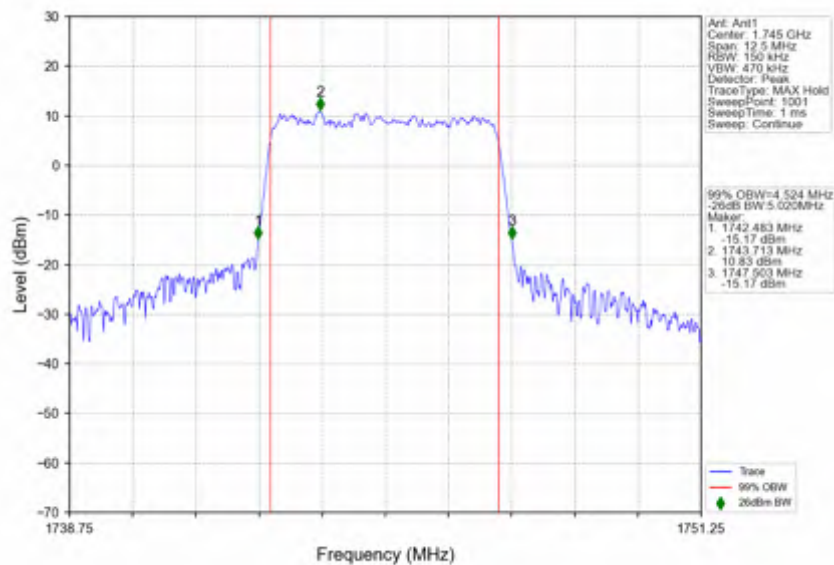
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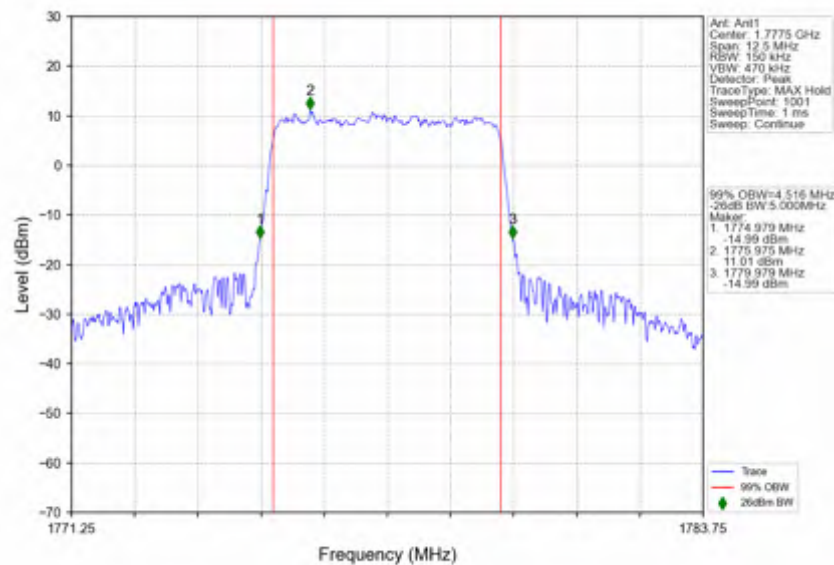
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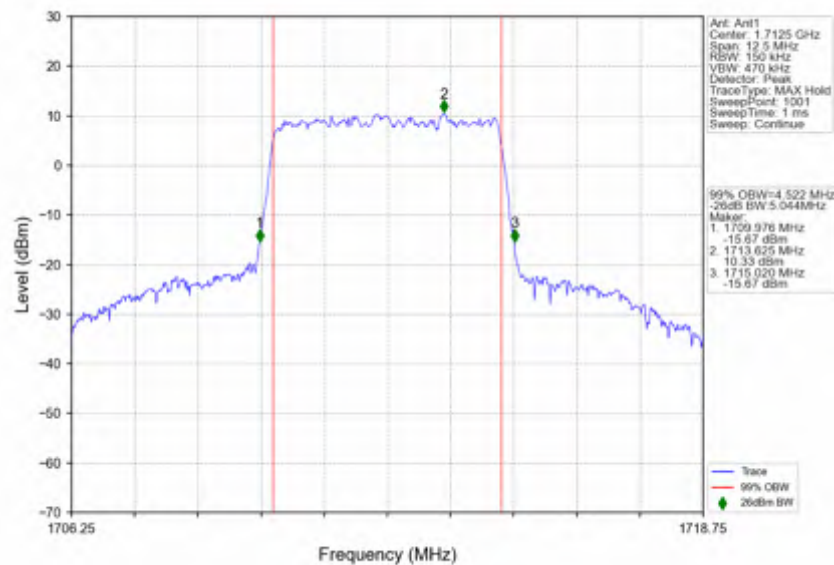
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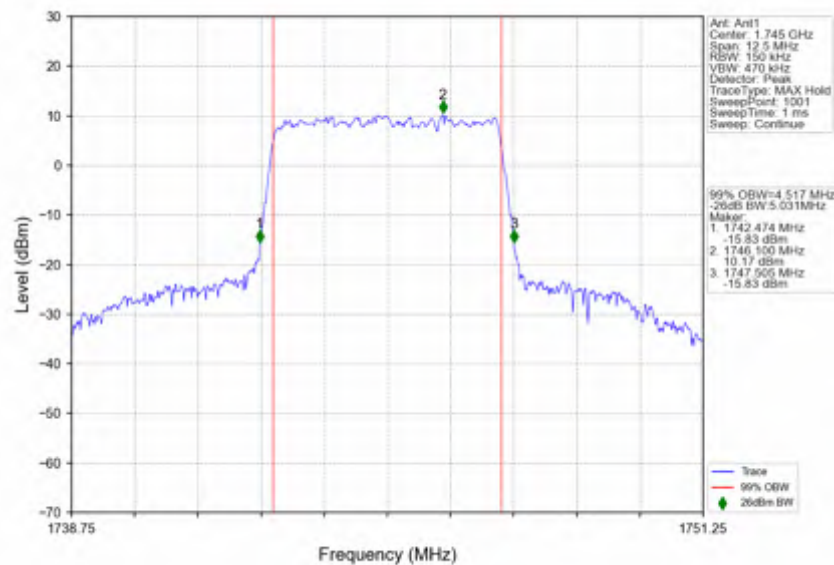
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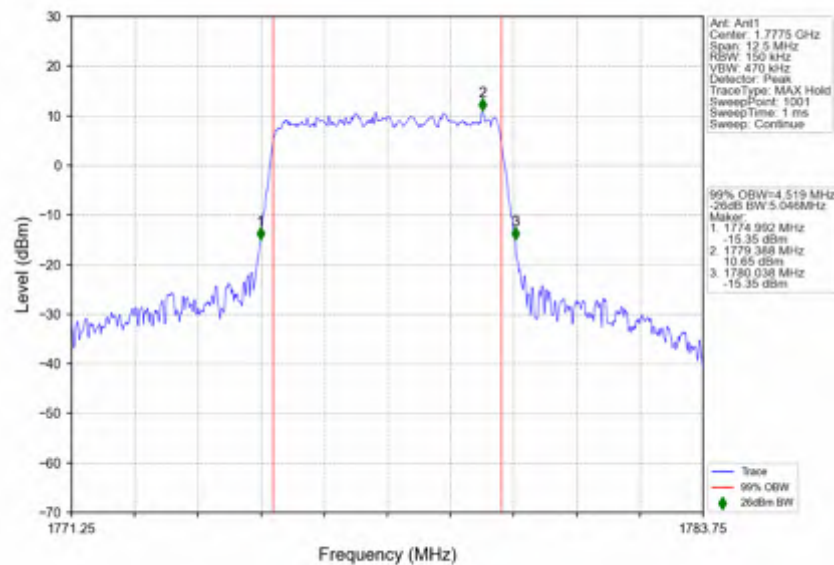
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n66_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM_1745MHz_Outer_Full



n66_15kHz_SISO_NTNV_5MHz_CP-OFDM 64 QAM_1777.5MHz_Outer_Full



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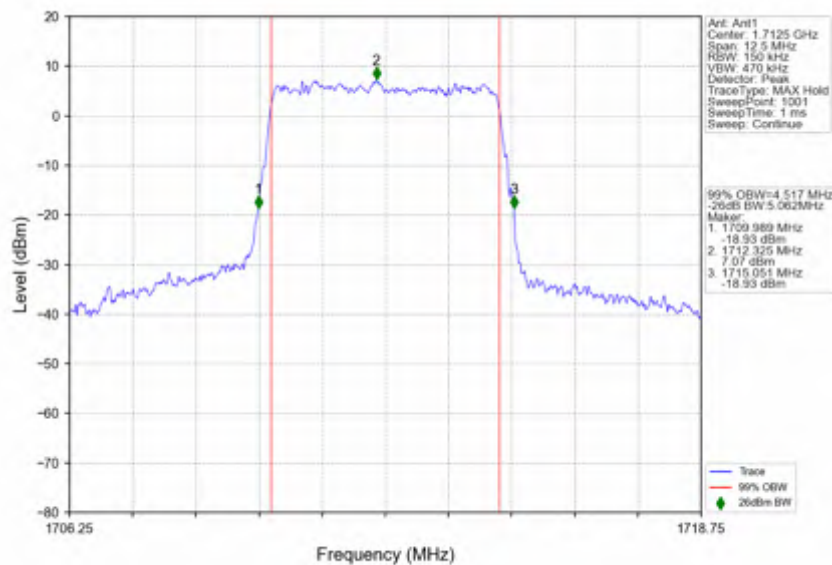
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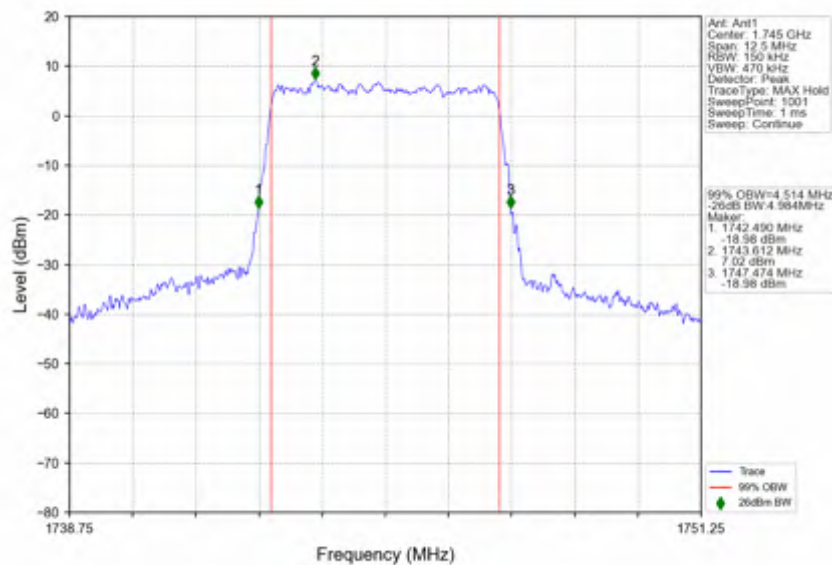
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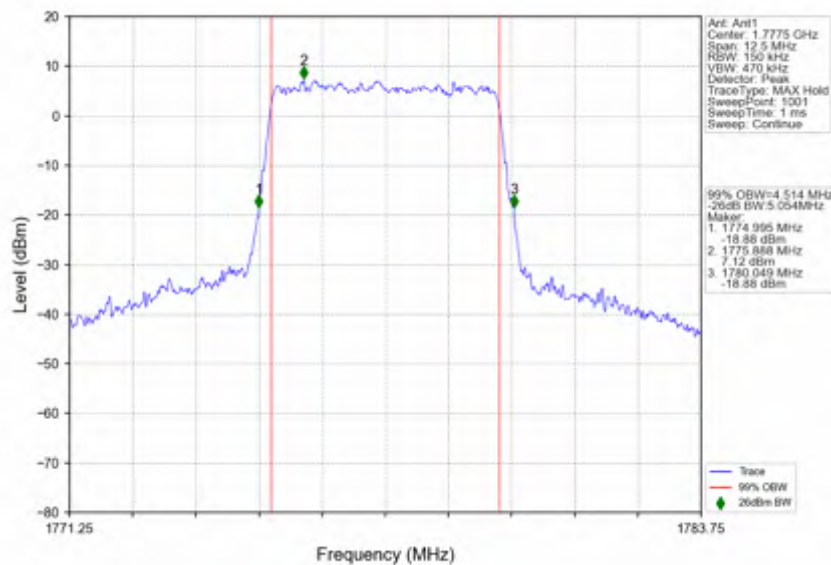
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7.2 15k_SISO_10MHz_NTNV

7.2.1 Test Result

5G NR n66 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	1715	Outer_Full	9.05	9.94	/	Pass
	1745	Outer_Full	9.04	9.87	/	Pass
	1775	Outer_Full	9.03	9.87	/	Pass
DFT-s-OFDM QPSK	1715	Outer_Full	9.05	9.81	/	Pass
	1745	Outer_Full	9.04	9.89	/	Pass
	1775	Outer_Full	9.04	9.94	/	Pass
DFT-s-OFDM 16 QAM	1715	Outer_Full	9.03	9.87	/	Pass
	1745	Outer_Full	9.03	9.85	/	Pass
	1775	Outer_Full	9.04	9.88	/	Pass
DFT-s-OFDM 64 QAM	1715	Outer_Full	9.06	9.87	/	Pass
	1745	Outer_Full	9.07	9.93	/	Pass
	1775	Outer_Full	9.03	9.92	/	Pass
DFT-s-OFDM 256 QAM	1715	Outer_Full	9.03	9.89	/	Pass
	1745	Outer_Full	9.04	9.94	/	Pass
	1775	Outer_Full	9.01	9.93	/	Pass
CP-OFDM QPSK	1715	Outer_Full	9.39	10.23	/	Pass
	1745	Outer_Full	9.38	10.31	/	Pass
	1775	Outer_Full	9.36	10.21	/	Pass
CP-OFDM 16 QAM	1715	Outer_Full	9.41	10.20	/	Pass
	1745	Outer_Full	9.41	10.17	/	Pass
	1775	Outer_Full	9.39	10.14	/	Pass
CP-OFDM 64 QAM	1715	Outer_Full	9.39	10.28	/	Pass
	1745	Outer_Full	9.42	10.31	/	Pass
	1775	Outer_Full	9.39	10.21	/	Pass
CP-OFDM 256 QAM	1715	Outer_Full	9.39	10.22	/	Pass
	1745	Outer_Full	9.39	10.21	/	Pass
	1775	Outer_Full	9.38	10.27	/	Pass



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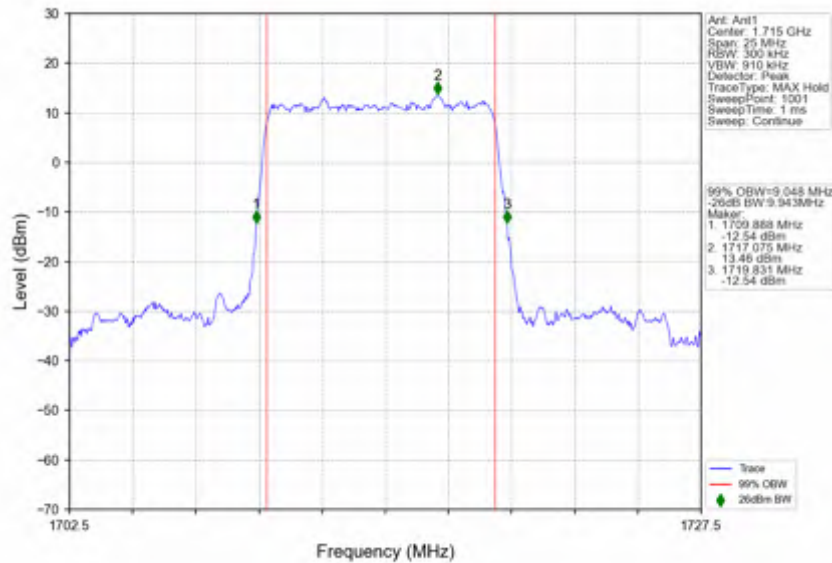
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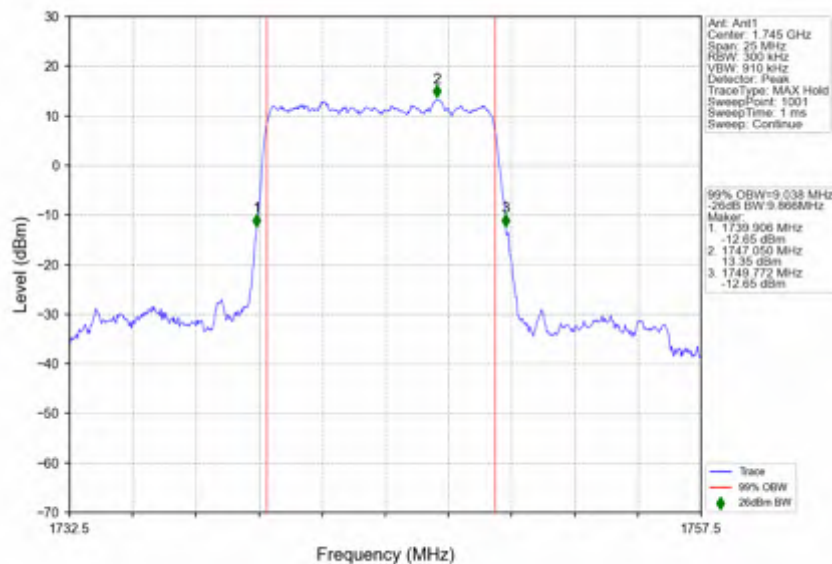
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1.2.2 Test Graph

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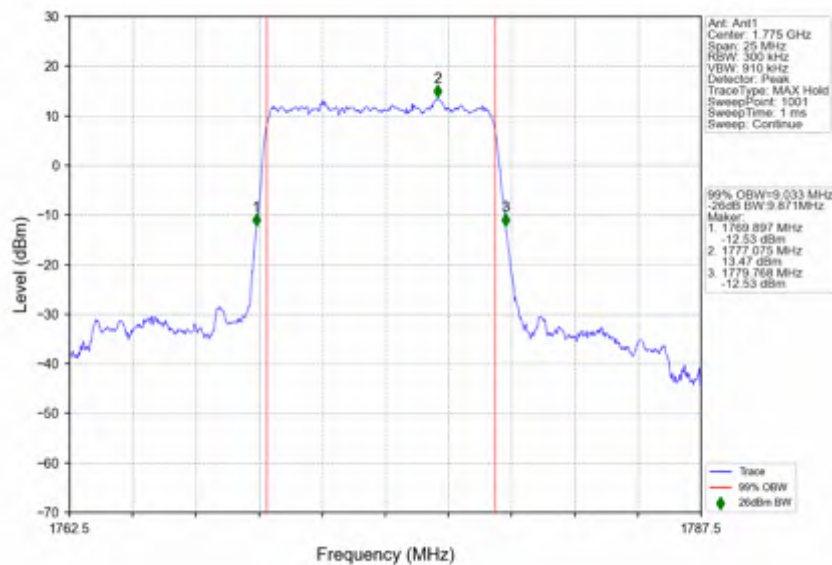
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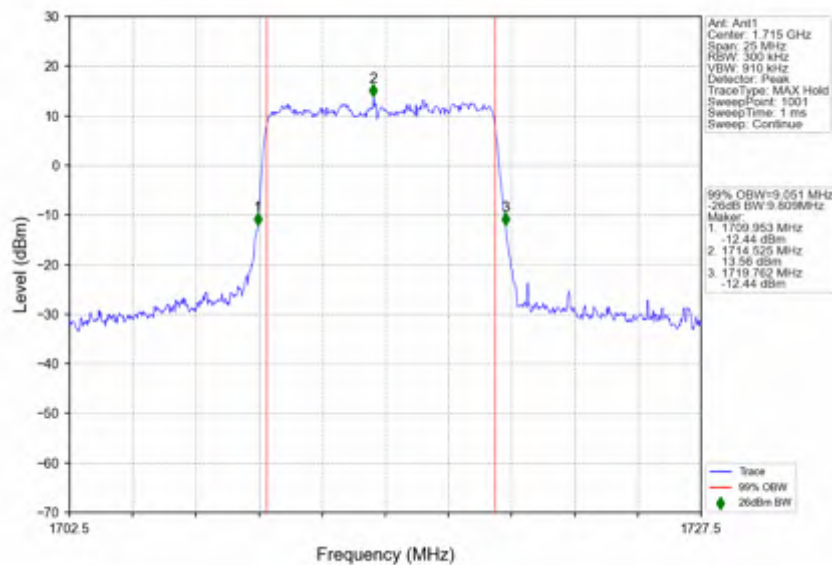
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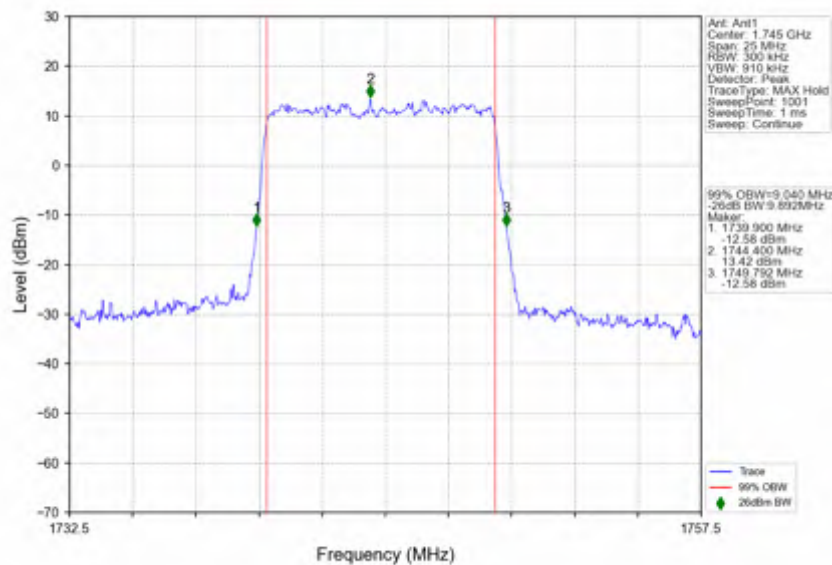


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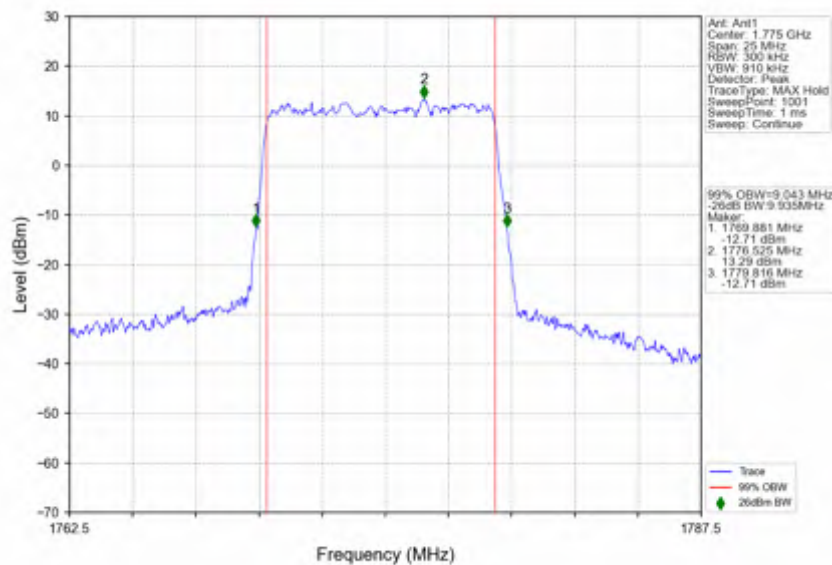
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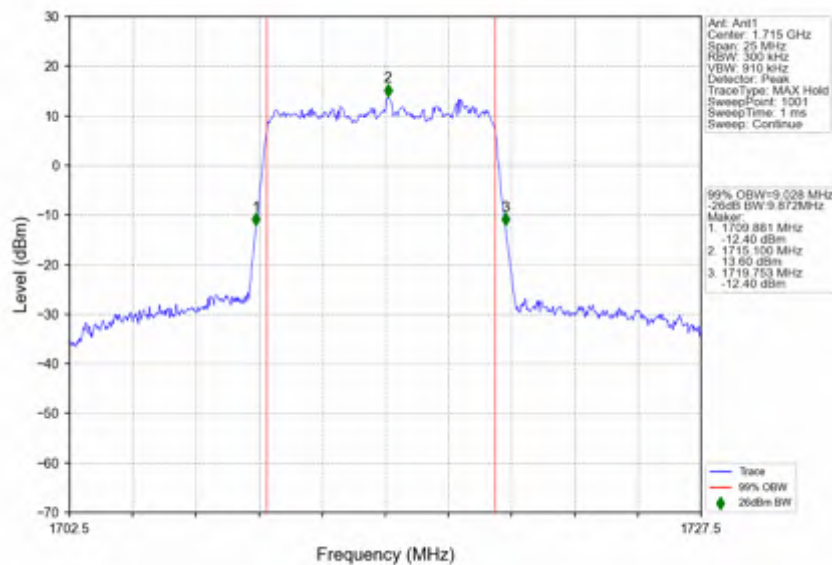
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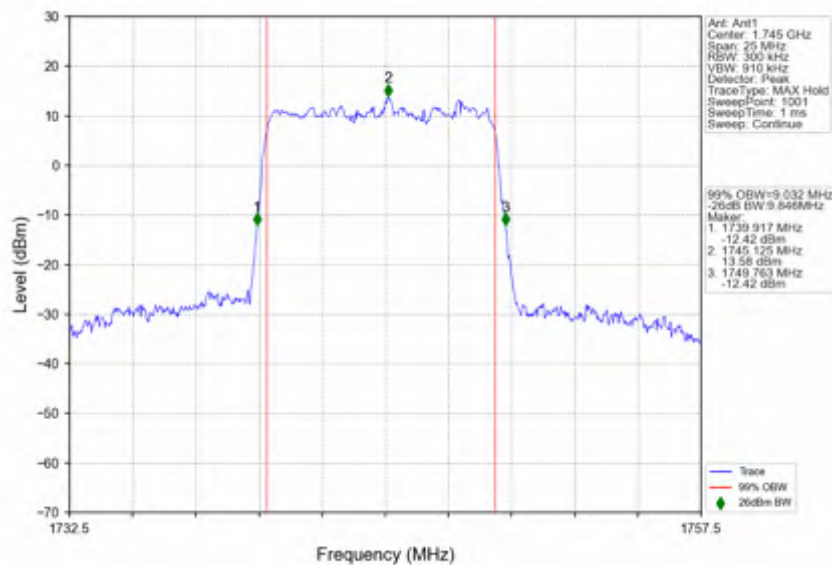
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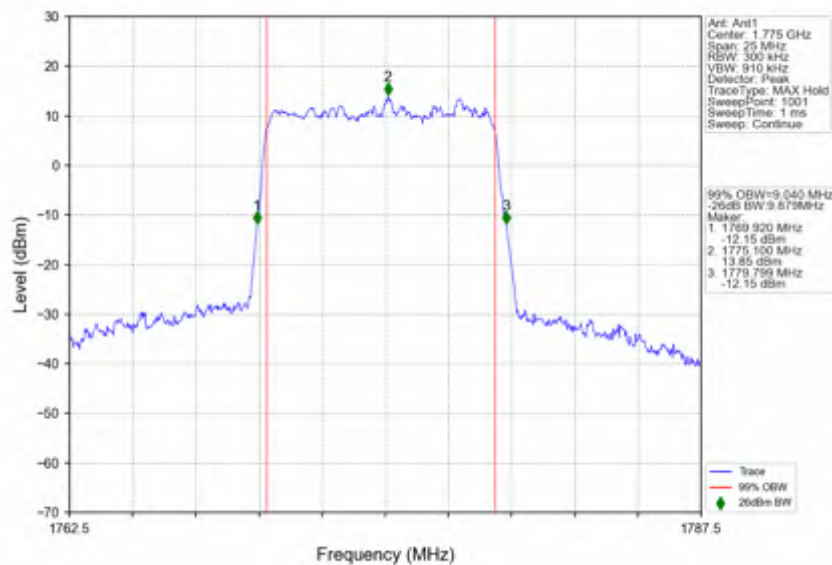
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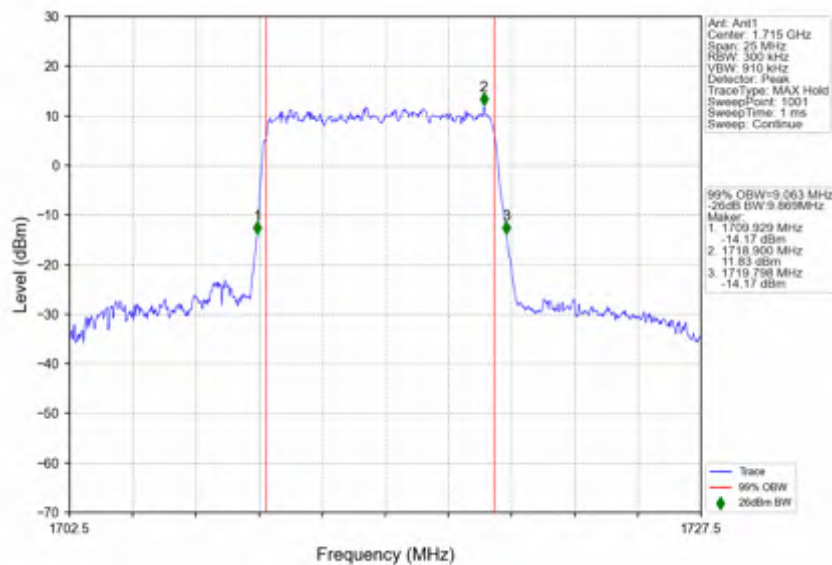
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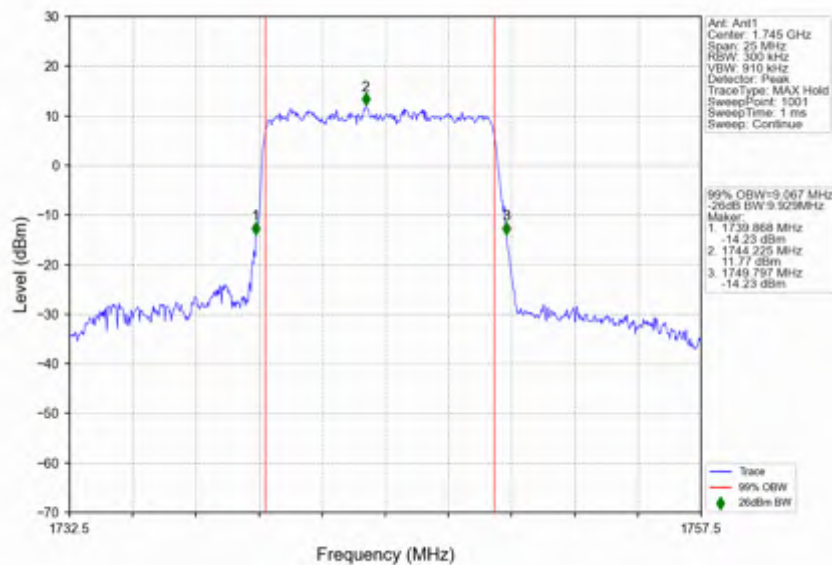
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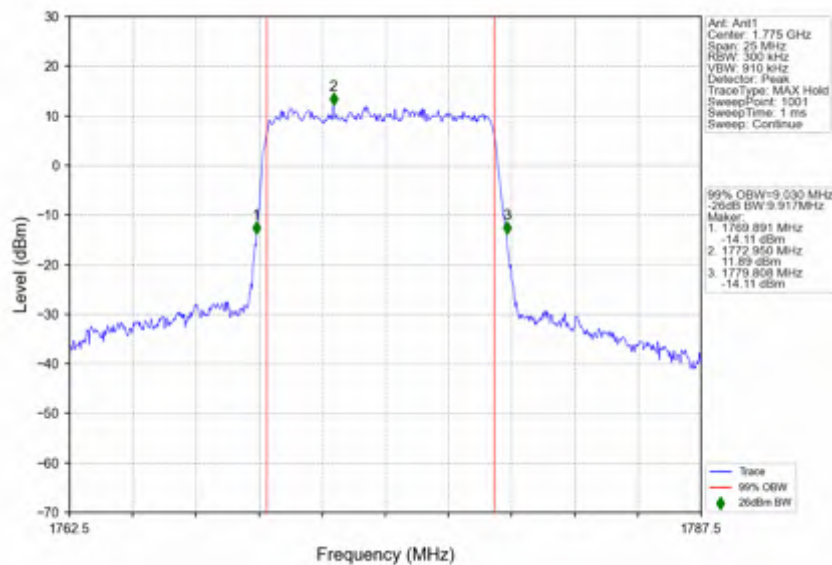
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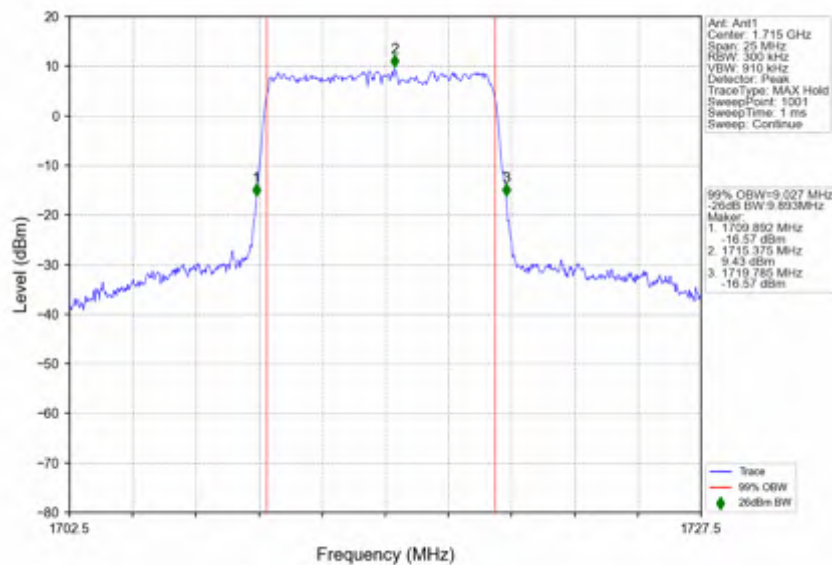
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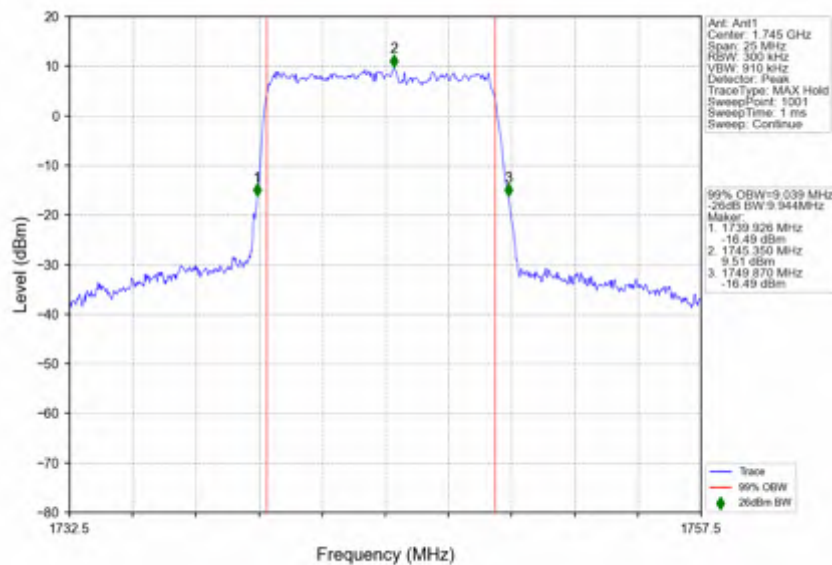
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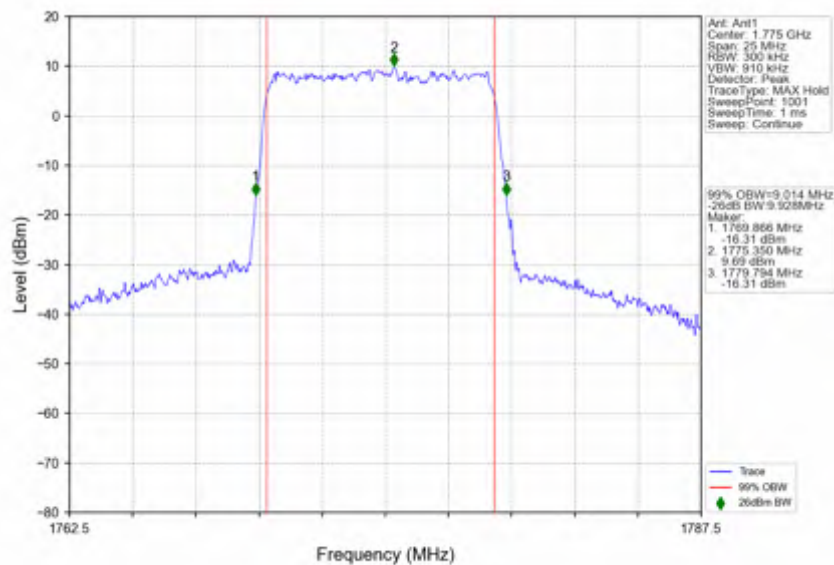
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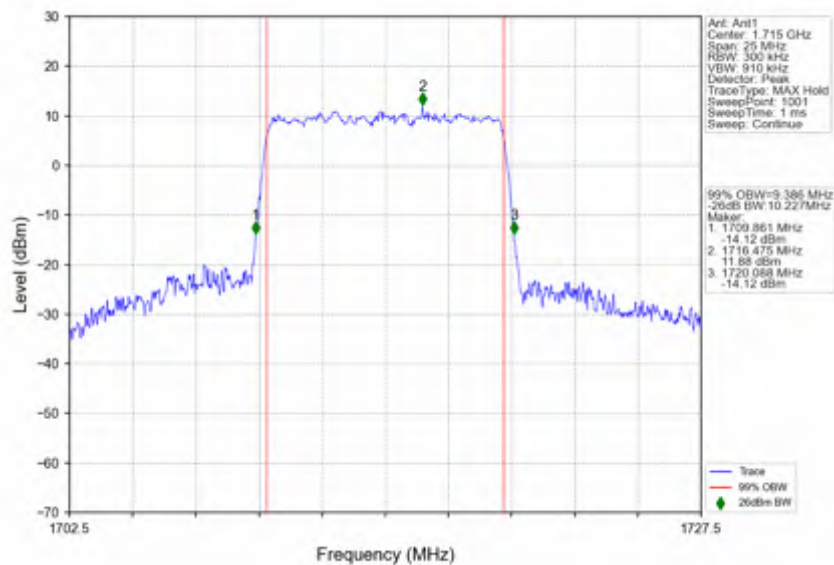
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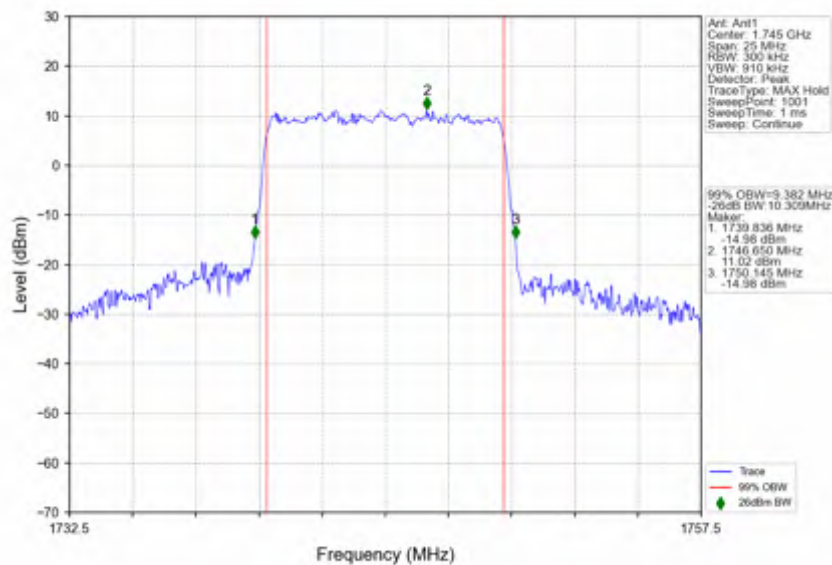


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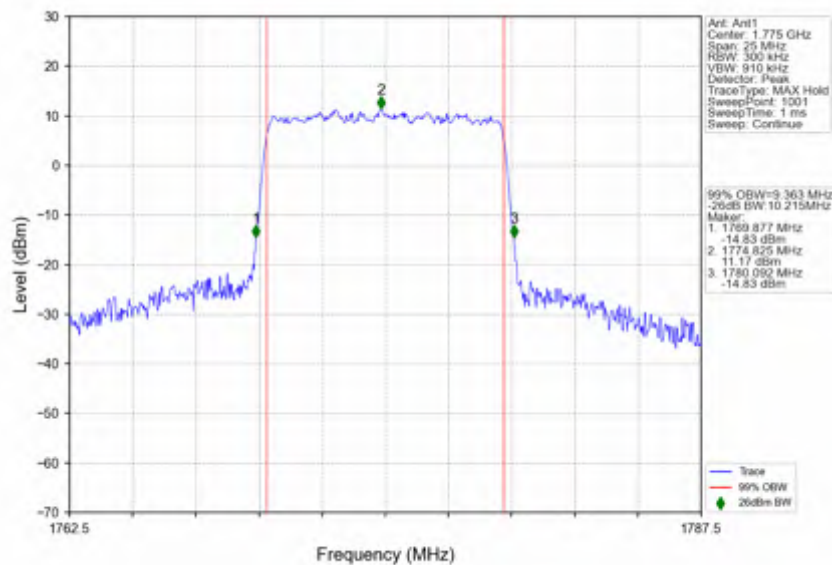
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n66_15kHz_SISO_NTV_10MHz_CP-OFDM_QPSK_1745MHz_Outer_Full



n66_15kHz_SISO_NTNV_10MHz_CP-OFDM_QPSK_1775MHz_Outer_Full



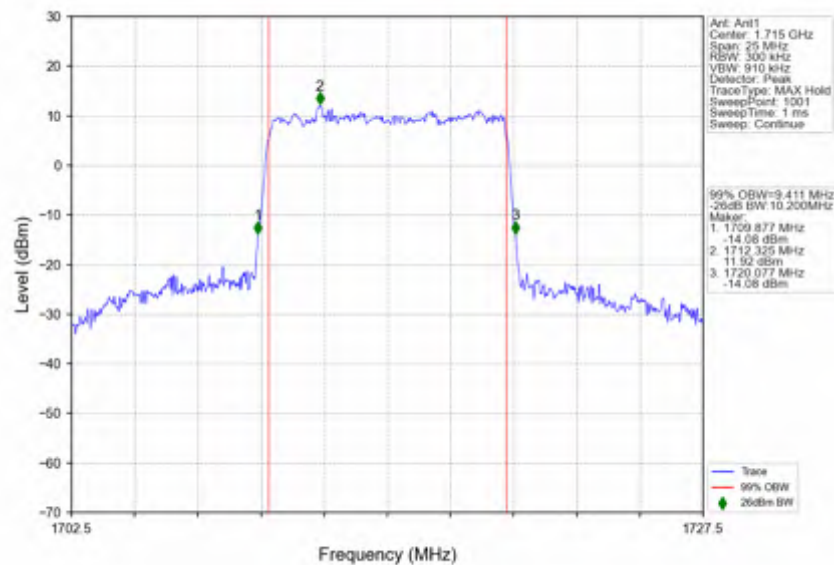
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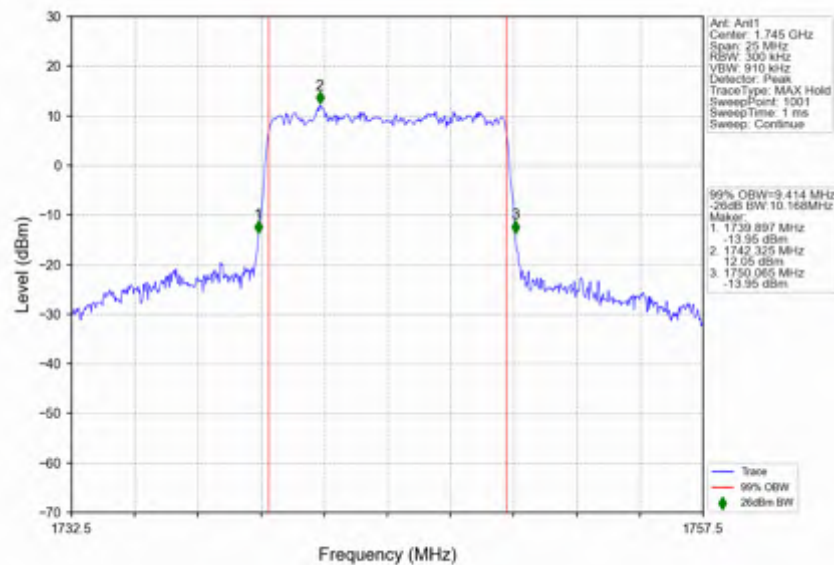
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n66_15kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_1745MHz_Outer_Full



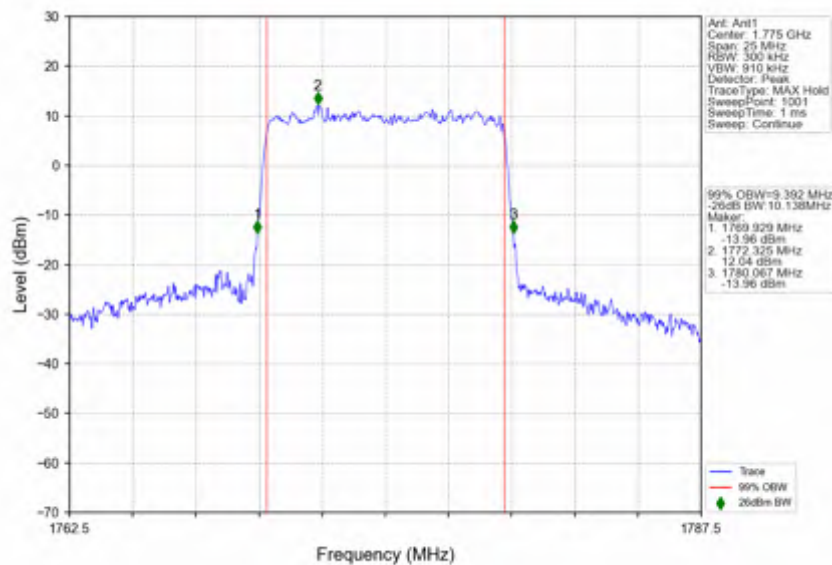
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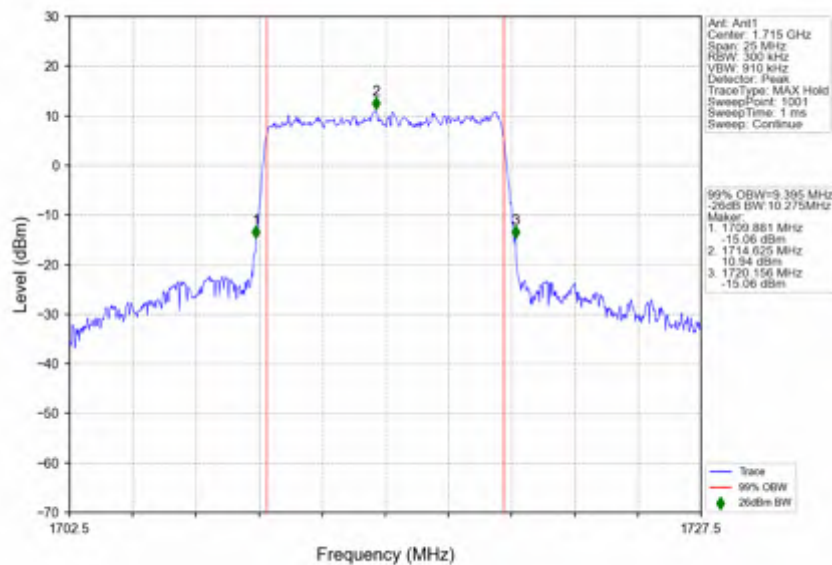
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n66_15kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_1775MHz_Outer_Full



n66_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_1715MHz_Outer_Full

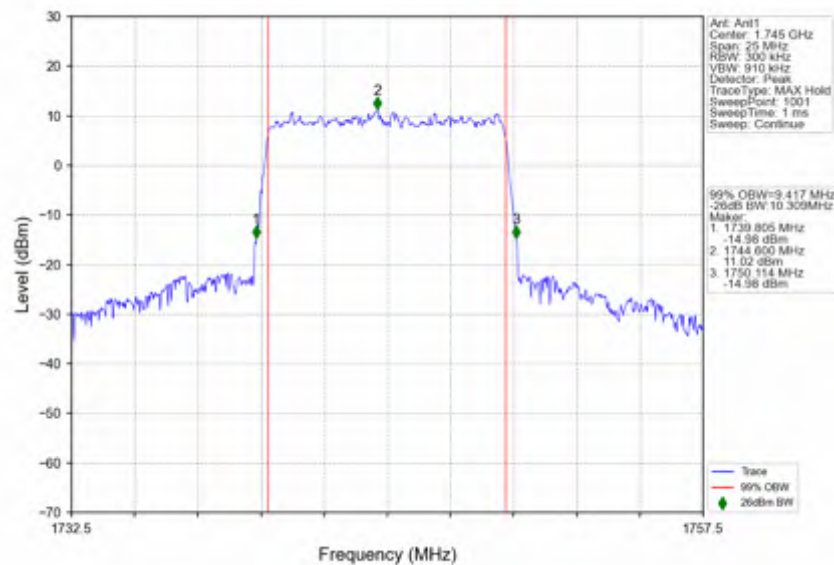


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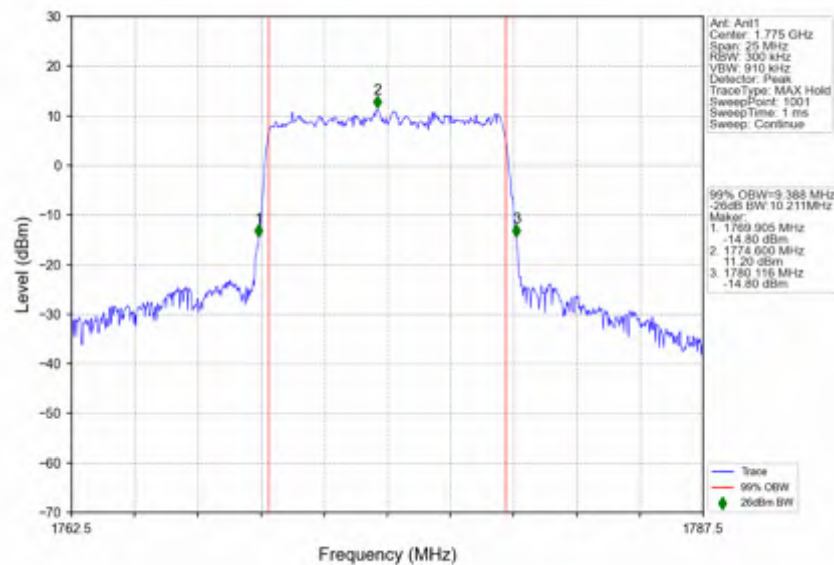
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n66_15kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_1775MHz_Outer_Full



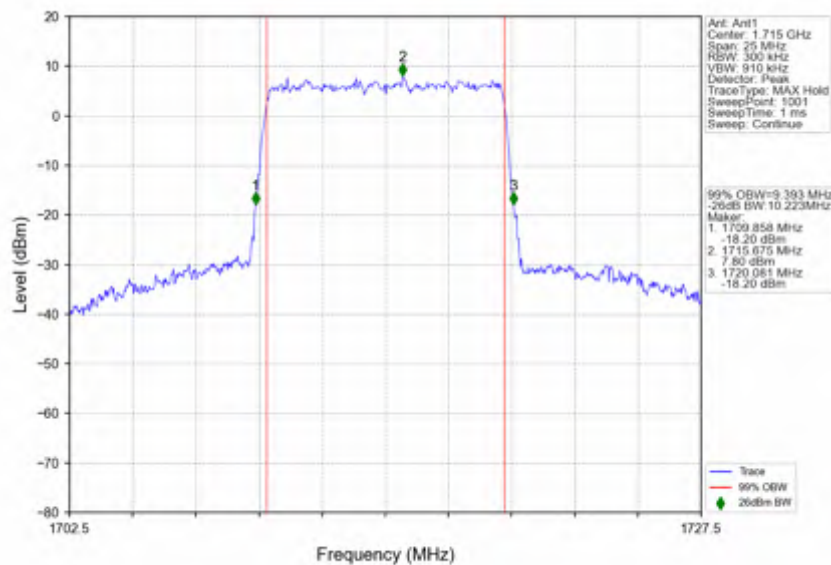
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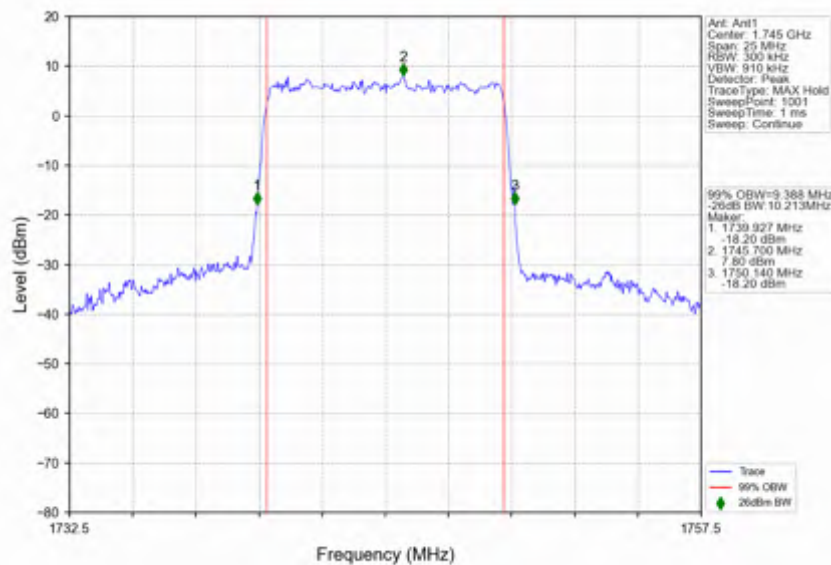
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n66_15kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_1745MHz_Outer_Full



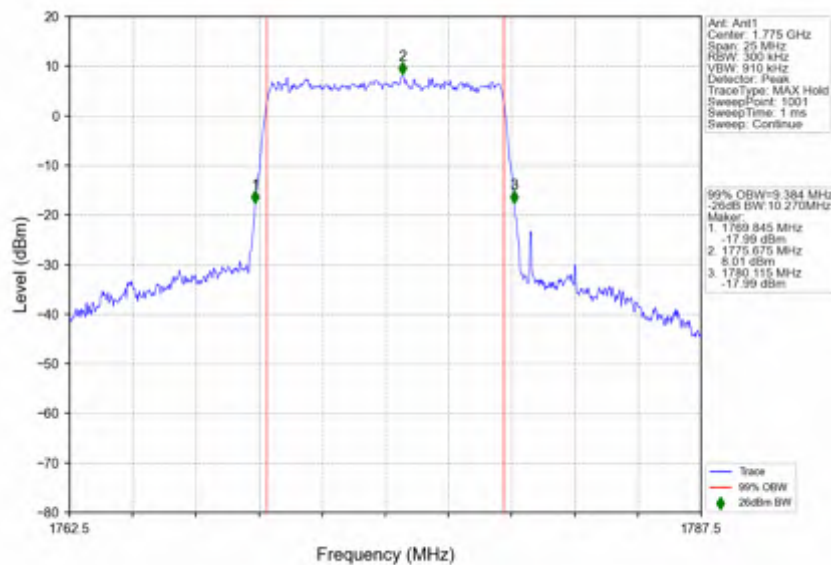
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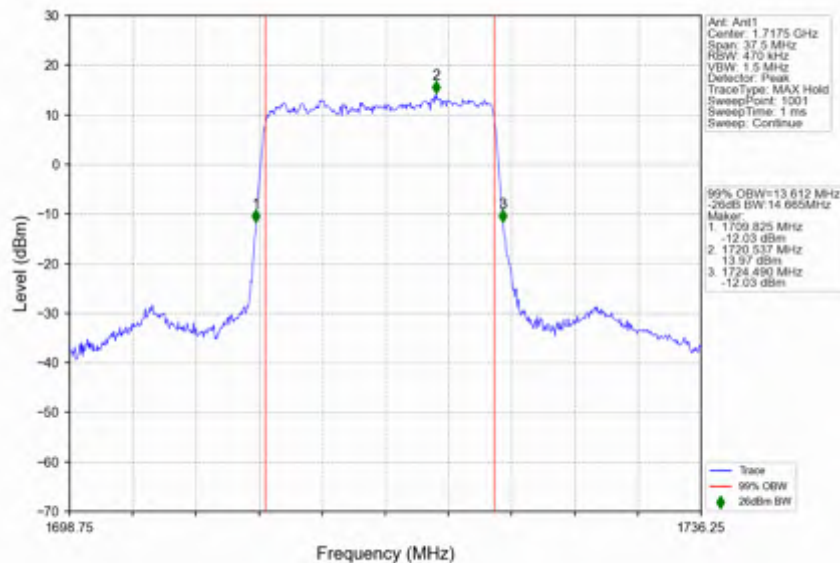
7.3 15k_SISO_15MHz_NTNV

7.3.1 Test Result

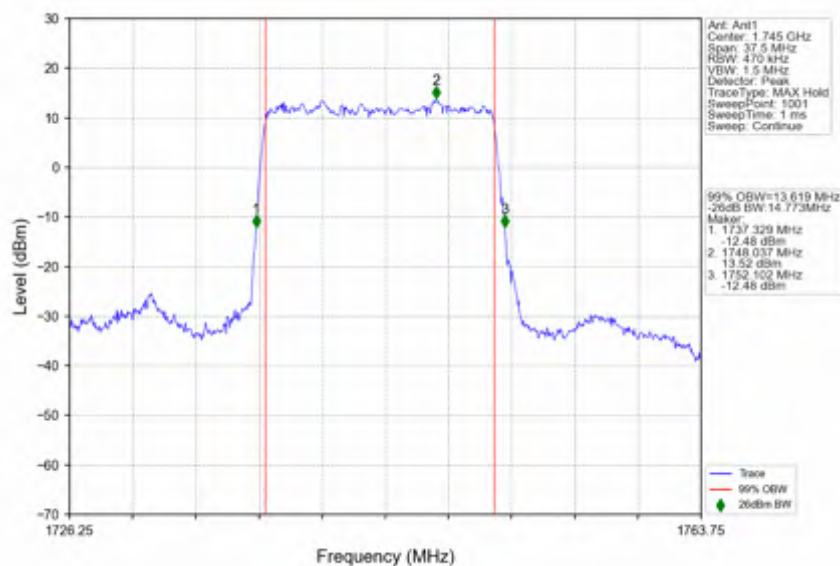
5G NR n66 SCS=15kHz SISO 15MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	1717.5	Outer_Full	13.61	14.66	/	Pass
	1745	Outer_Full	13.62	14.77	/	Pass
	1772.5	Outer_Full	13.61	14.71	/	Pass
DFT-s-OFDM QPSK	1717.5	Outer_Full	13.55	14.69	/	Pass
	1745	Outer_Full	13.58	14.67	/	Pass
	1772.5	Outer_Full	13.56	14.72	/	Pass
DFT-s-OFDM 16 QAM	1717.5	Outer_Full	13.60	14.68	/	Pass
	1745	Outer_Full	13.57	14.60	/	Pass
	1772.5	Outer_Full	13.57	14.65	/	Pass
DFT-s-OFDM 64 QAM	1717.5	Outer_Full	13.58	14.78	/	Pass
	1745	Outer_Full	13.56	14.77	/	Pass
	1772.5	Outer_Full	13.55	14.69	/	Pass
DFT-s-OFDM 256 QAM	1717.5	Outer_Full	13.56	14.65	/	Pass
	1745	Outer_Full	13.57	14.64	/	Pass
	1772.5	Outer_Full	13.58	14.67	/	Pass
CP-OFDM QPSK	1717.5	Outer_Full	14.26	15.32	/	Pass
	1745	Outer_Full	14.25	15.36	/	Pass
	1772.5	Outer_Full	14.24	15.30	/	Pass
CP-OFDM 16 QAM	1717.5	Outer_Full	14.28	15.25	/	Pass
	1745	Outer_Full	14.26	15.35	/	Pass
	1772.5	Outer_Full	14.26	15.39	/	Pass
CP-OFDM 64 QAM	1717.5	Outer_Full	14.22	15.29	/	Pass
	1745	Outer_Full	14.25	15.31	/	Pass
	1772.5	Outer_Full	14.22	15.32	/	Pass
CP-OFDM 256 QAM	1717.5	Outer_Full	14.21	15.33	/	Pass
	1745	Outer_Full	14.23	15.40	/	Pass
	1772.5	Outer_Full	14.23	15.36	/	Pass

7.3.2 Test Graph

n66_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1717.5MHz_Outer_Full



n66_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM PI/2 BPSK_1745MHz_Outer_Full

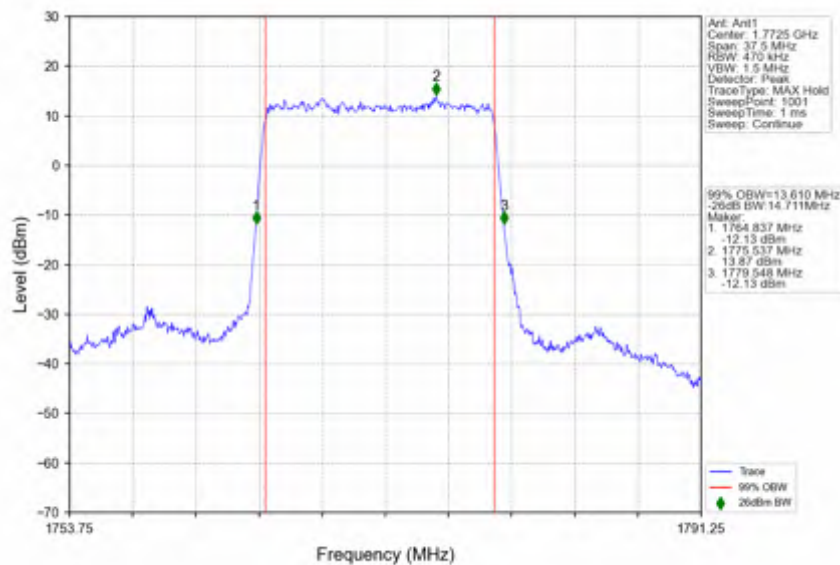


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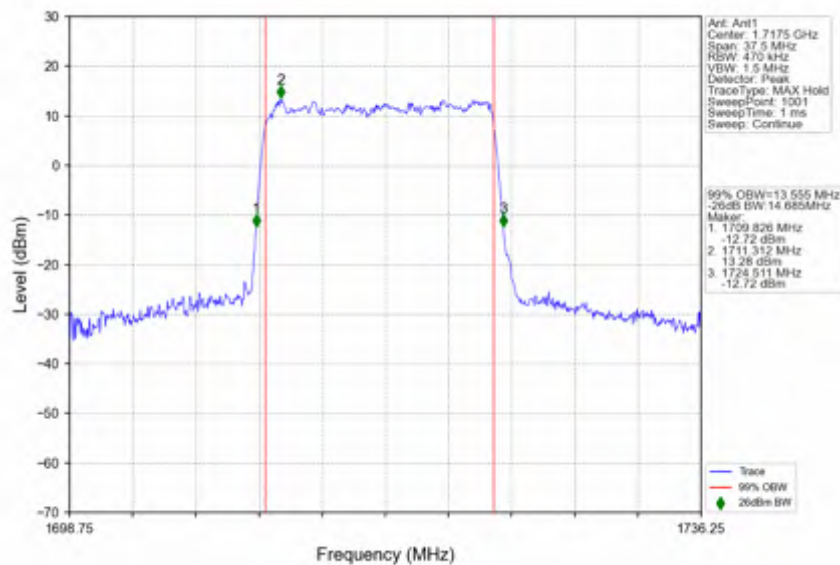
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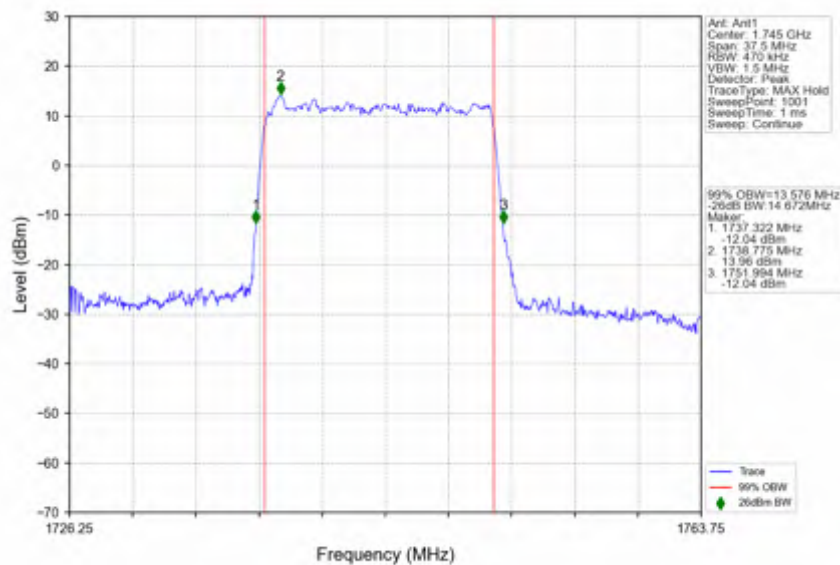


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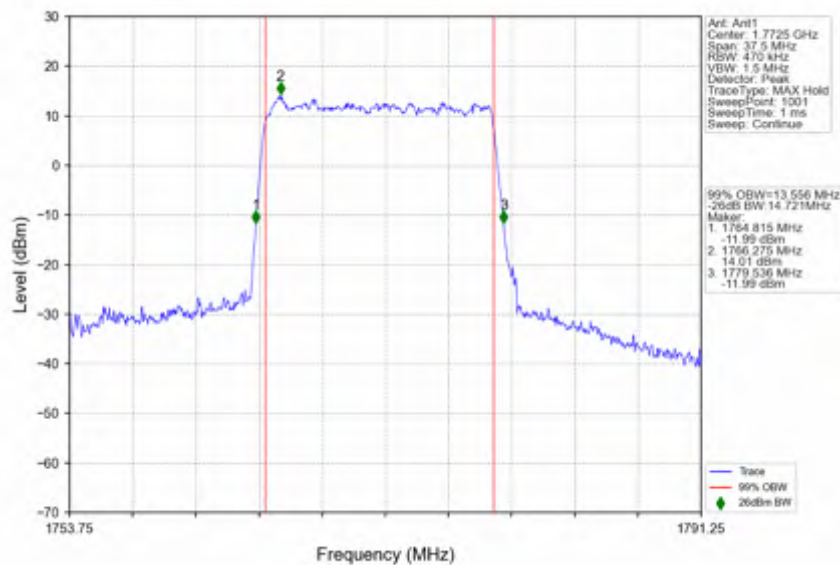
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n66	15kHz	SISO	NTNV	15MHz	DFT-s-OFDM	QPSK	1772.5MHz	Outer	Full
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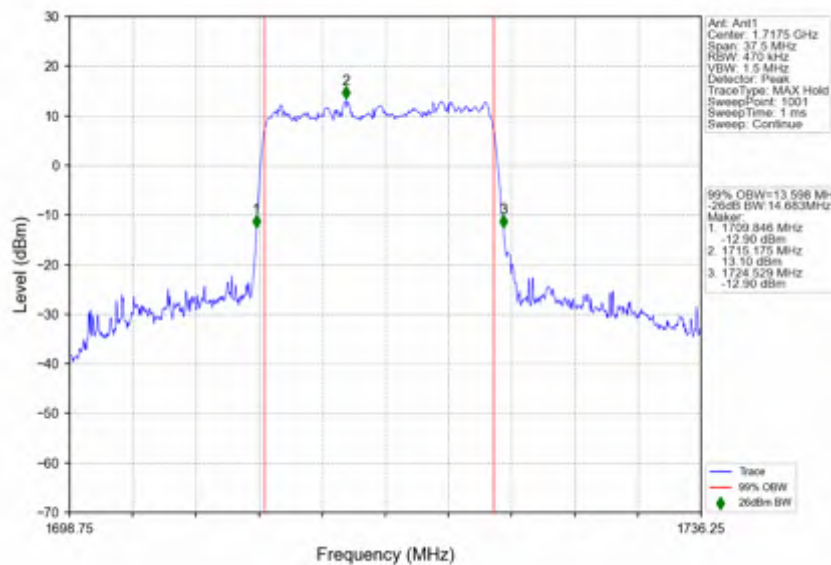


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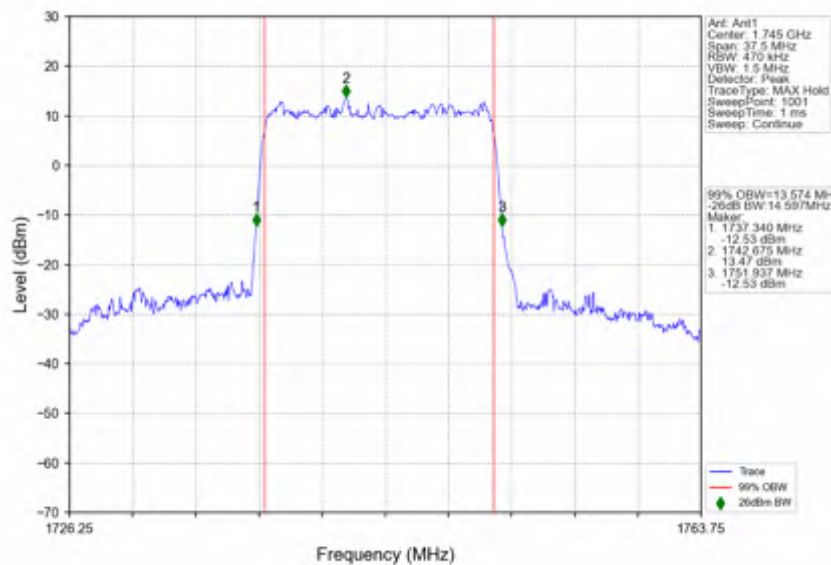
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n66	15kHz	SISO	NTNV	15MHz	DFT-s-OFDM	16 QAM	1717.5MHz	Outer	Full
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n66 15kHz SISO NTV 15MHz DFT-s-OFDM 16 QAM 1745MHz Outer Full

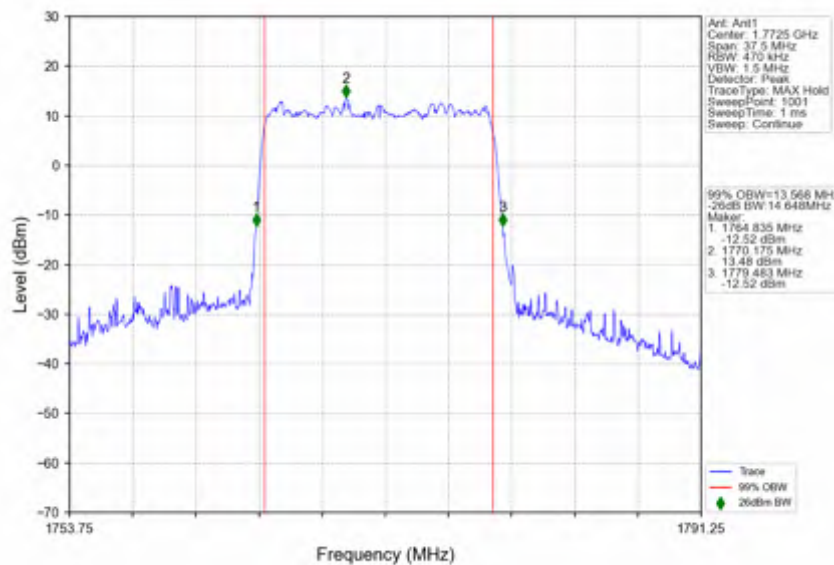


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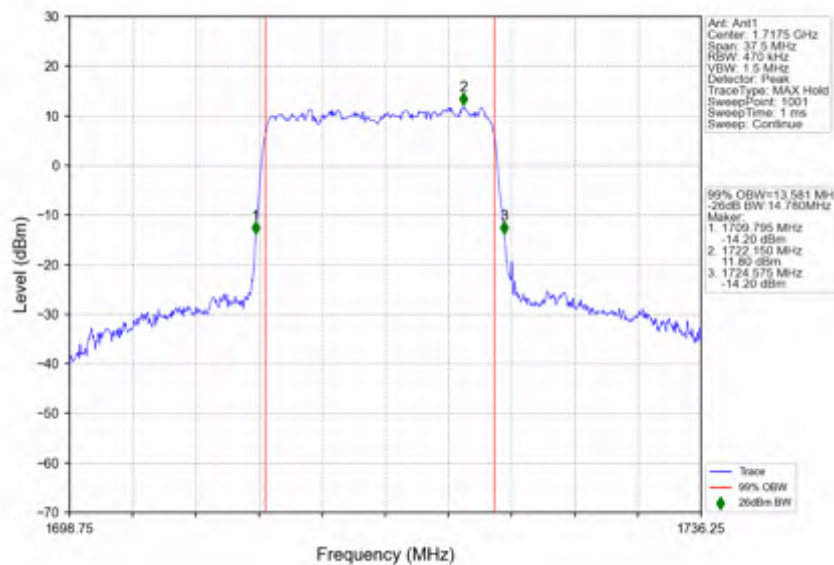
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n66_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16_QAM_1772.5MHz_Outer_Full
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n66_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_64_QAM_1717.5MHz_Outer_Full

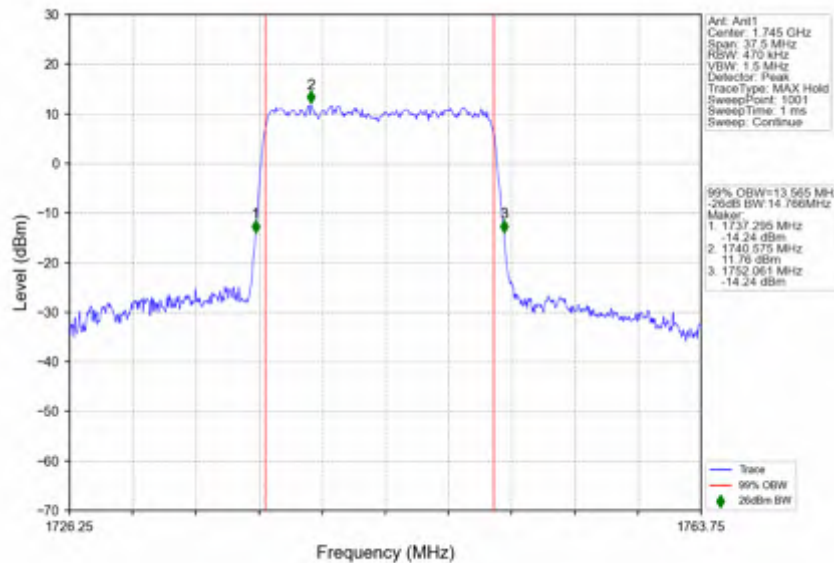


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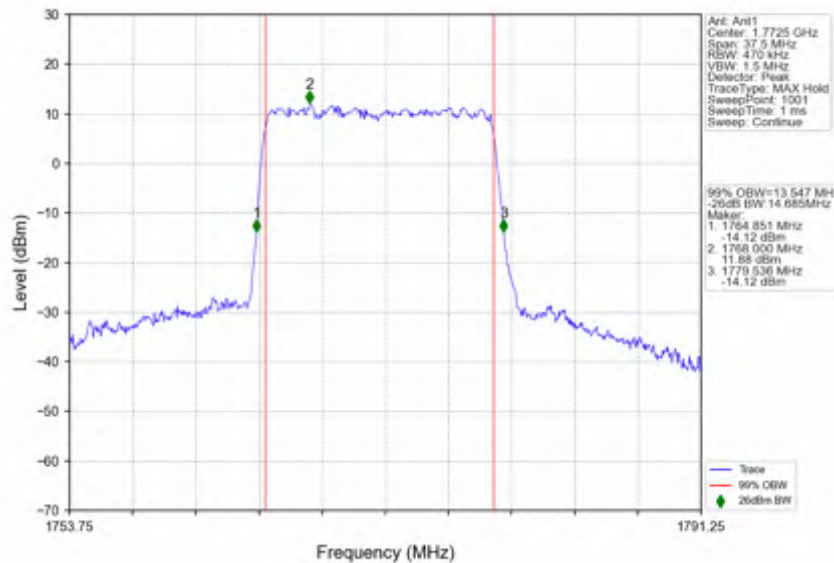
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n66_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_64_QAM_1745MHz_Outer_Full



n66_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_64_QAM_1772.5MHz_Outer_Full



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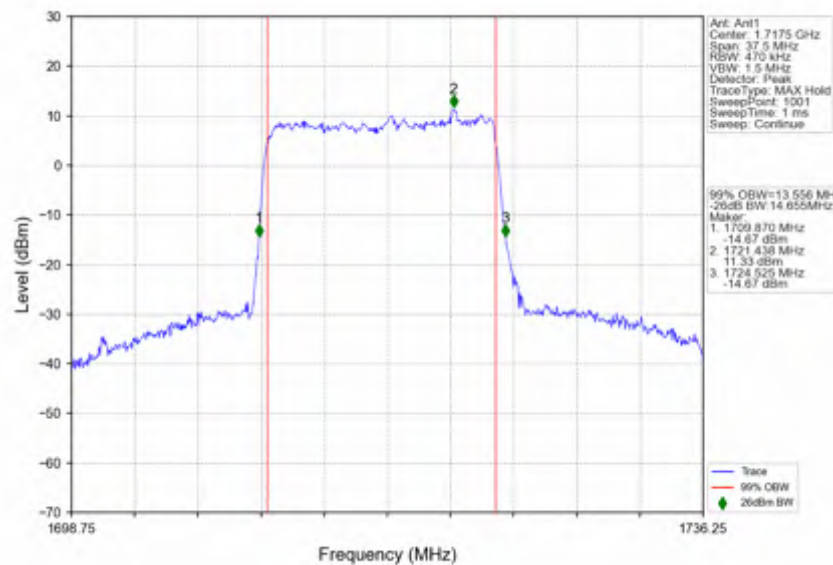
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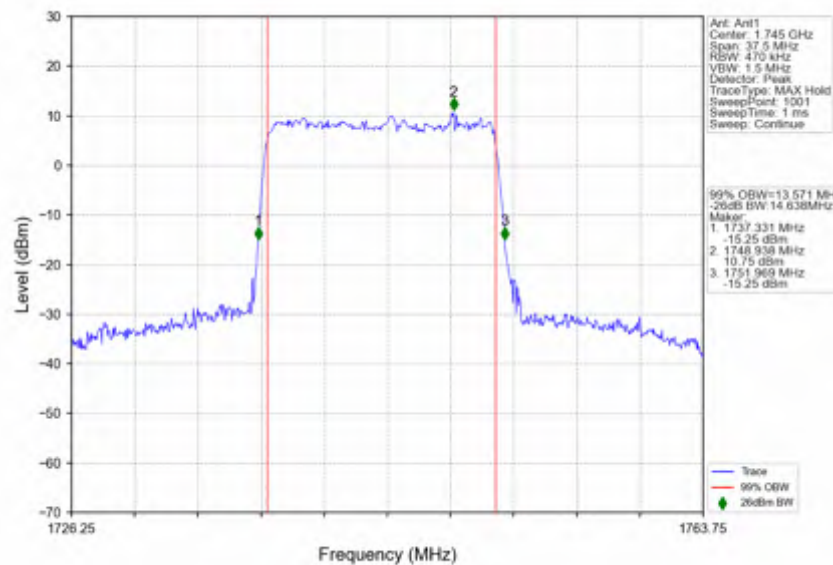
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n66_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_1717.5MHz_Outer_Full



n66_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_1745MHz_Outer_Full



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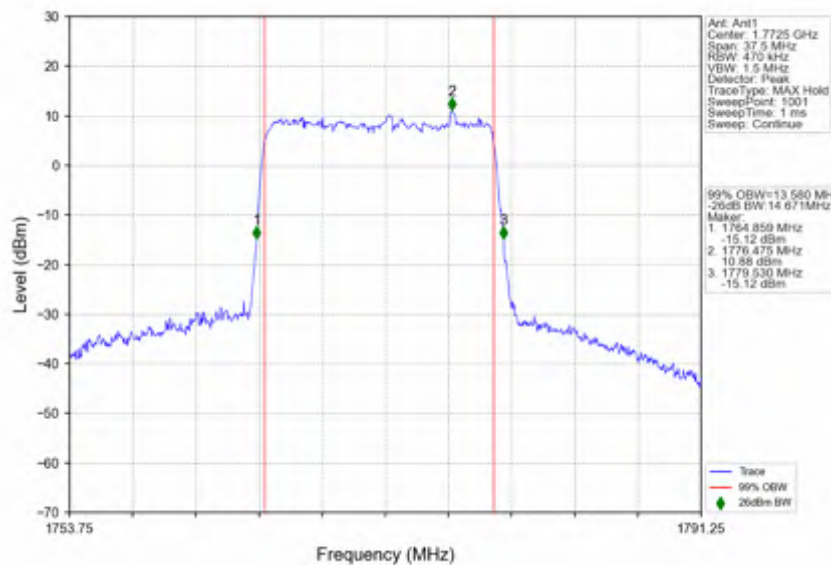
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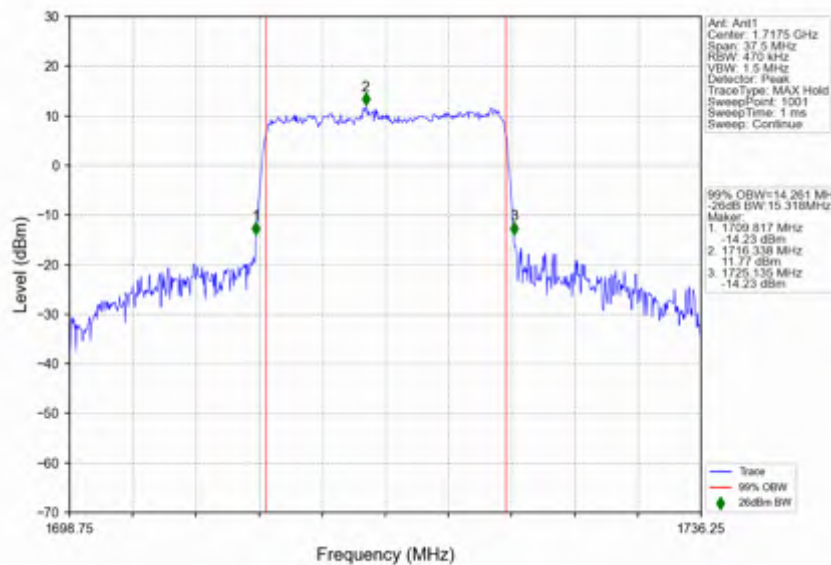
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n66_15kHz_SISO_NTNV_15MHz_DFT-s-OFDM_256_QAM_1772.5MHz_Outer_Full



n66_15kHz_SISO_NTNV_15MHz_CP-OFDM_QPSK_1717.5MHz_Outer_Full



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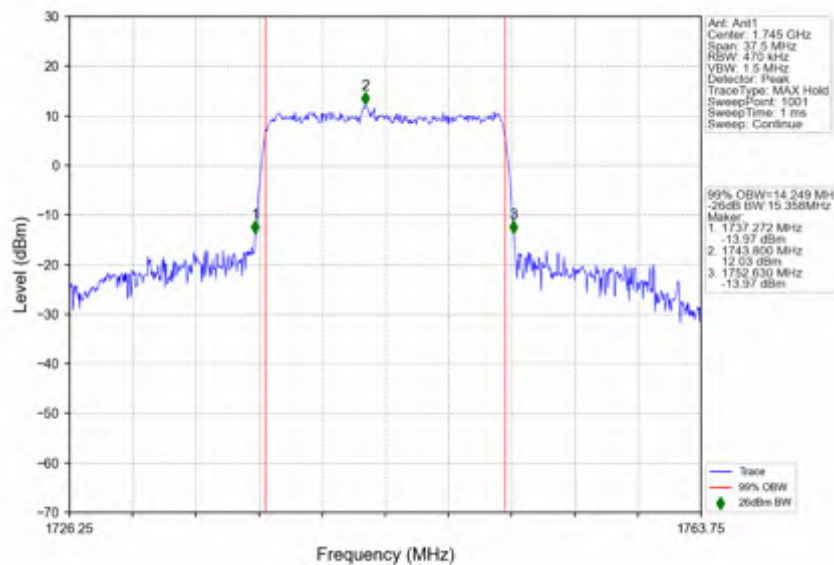
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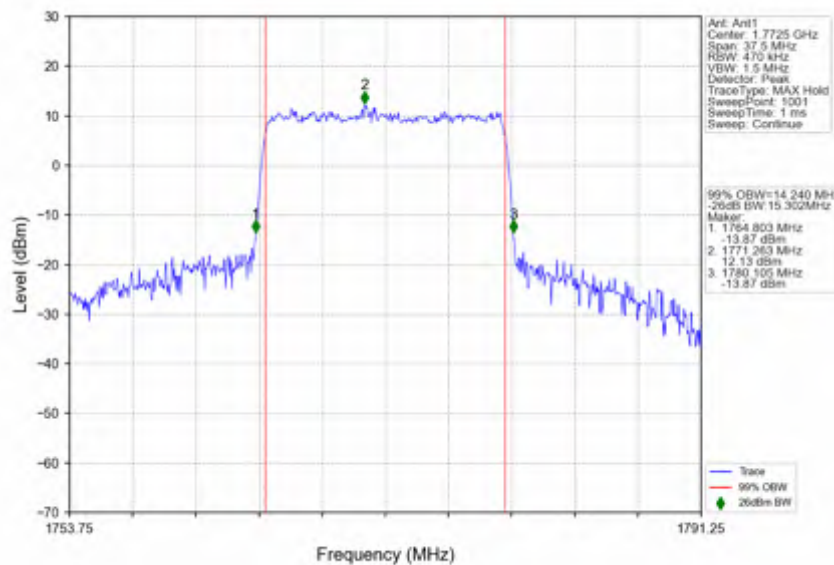
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n66_15kHz_SISO_NTV_15MHz_CP-OFDM_QPSK_1745MHz_Outer_Full



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

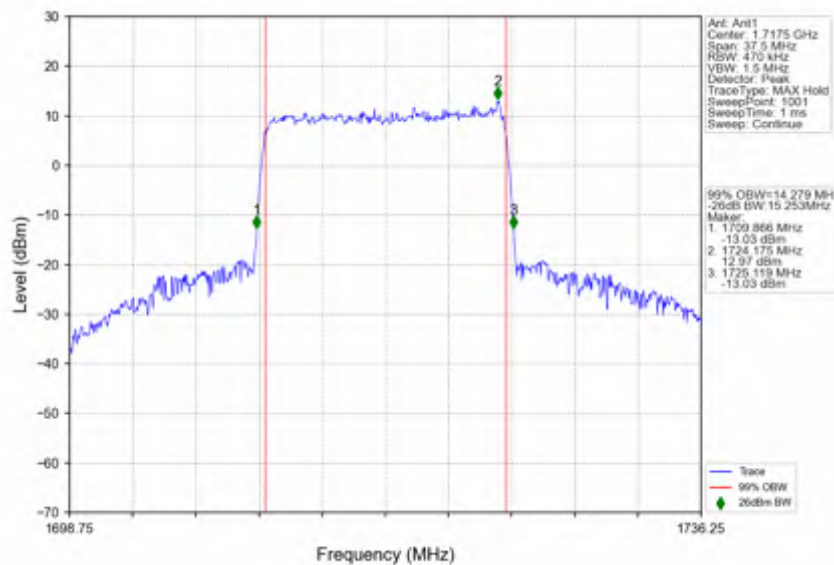


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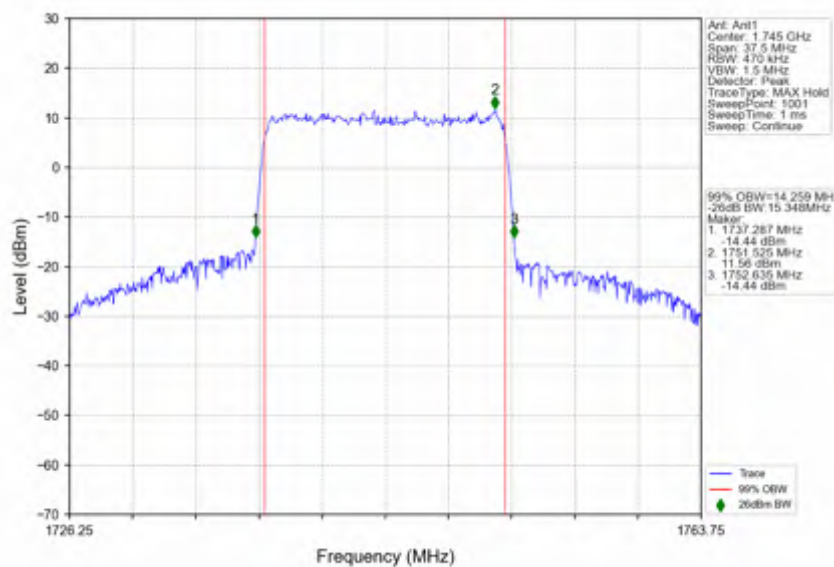
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n66_15kHz_SISO_NTNV_15MHz_CP-OFDM_16 QAM_1717.5MHz_Outer_Full



n66_15kHz_SISO_NTNV_15MHz_CP-OFDM_16 QAM_1745MHz_Outer_Full



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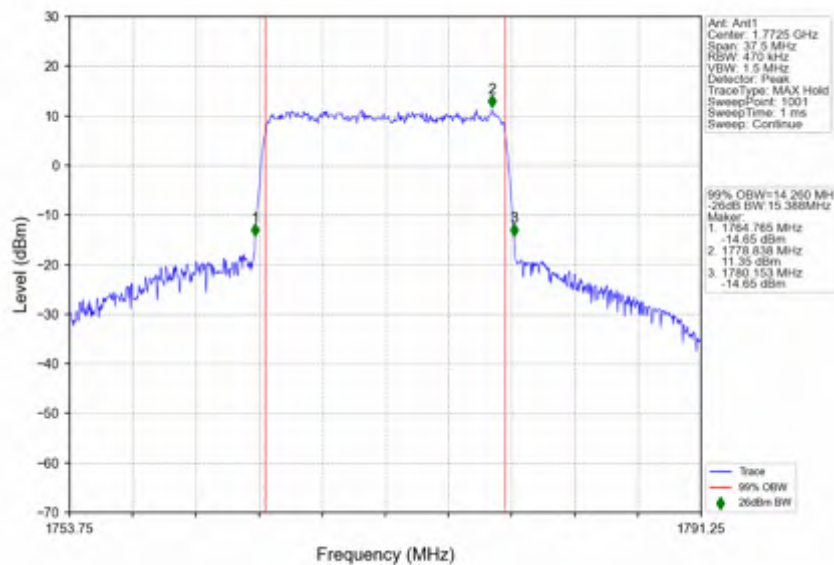
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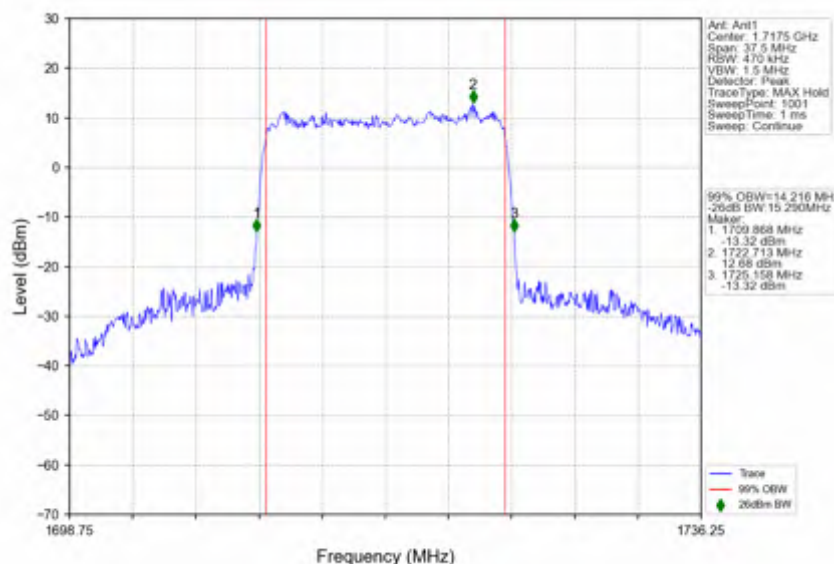
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n66_15kHz_SISO_NTNV_15MHz_CP-OFDM_16_QAM_1772.5MHz_Outer_Full



n66	15kHz	SISO	NTNV	15MHz	CP-OFDM	64 QAM	1717.5MHz	Outer	Full
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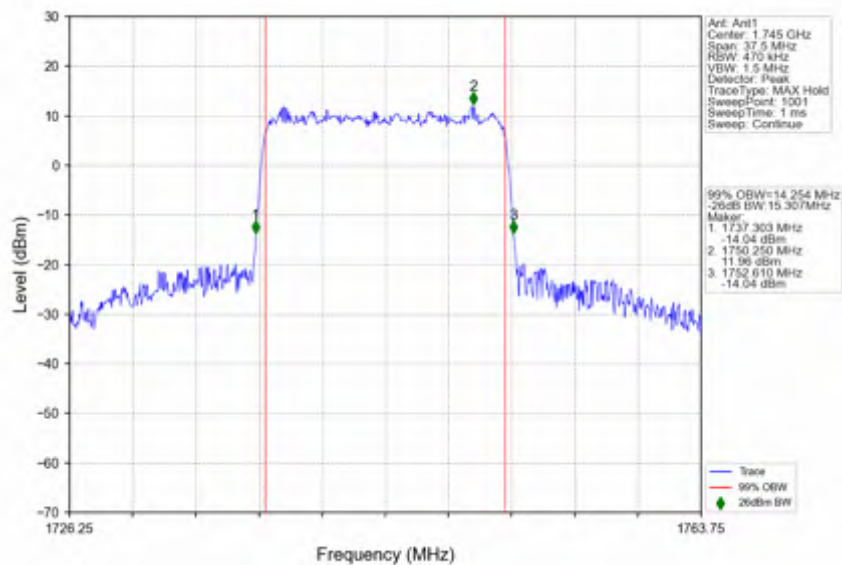


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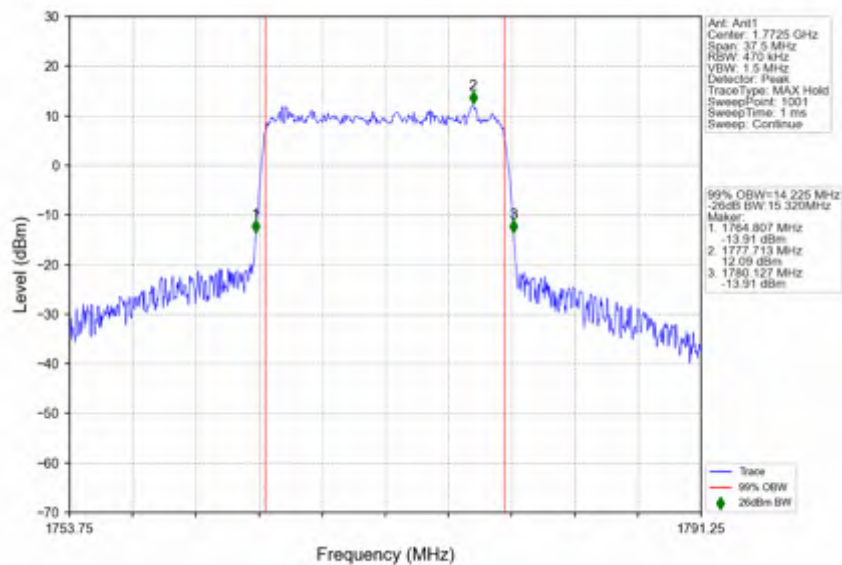
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n66_15kHz_SISO_NTNV_15MHz_CP-OFDM_64_QAM_1772.5MHz_Outer_Full

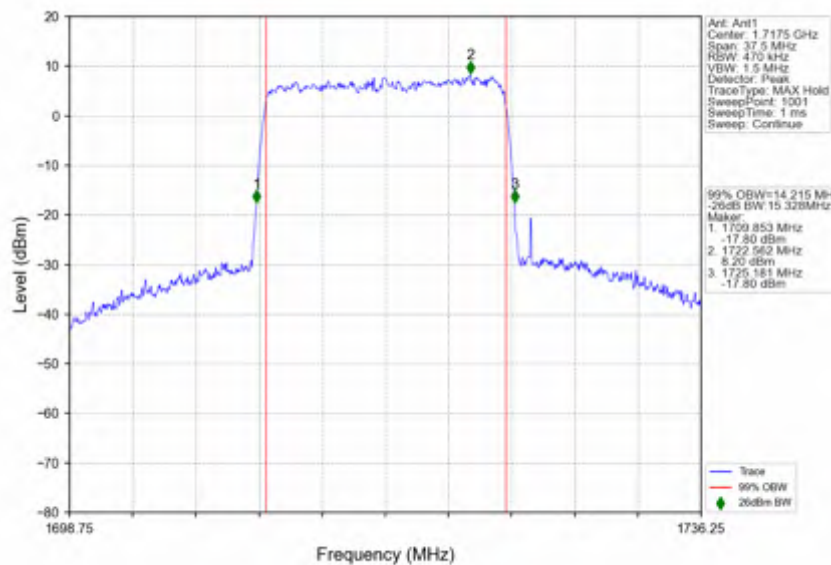


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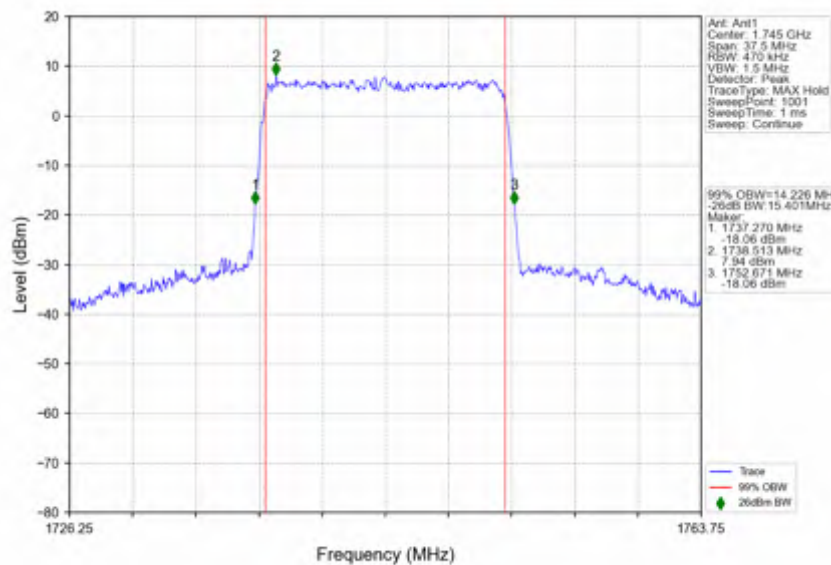
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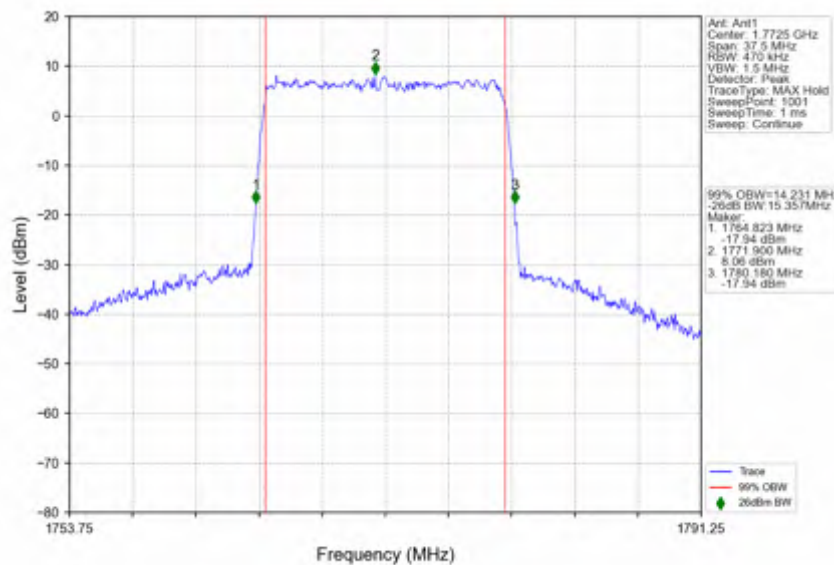
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