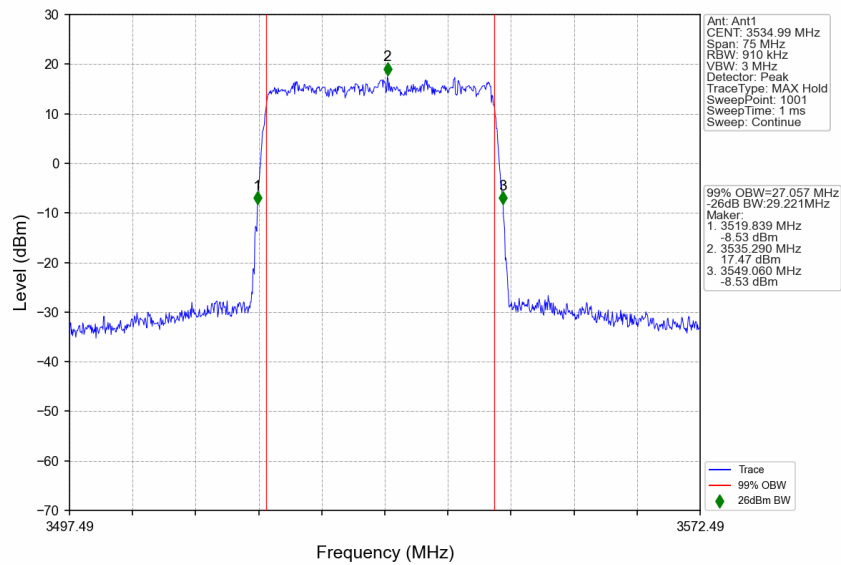


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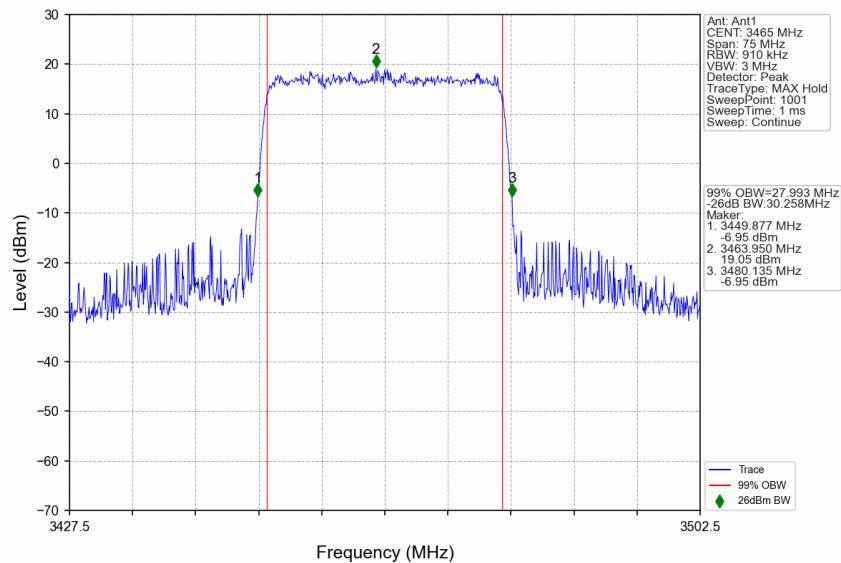
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n77d_30kHz_SISO_NTNV_30MHz_DFT-s-OFDM_256_QAM_3534.99MHz_Outer_Full



n77d_30kHz_SISO_NTNV_30MHz_CP-OFDM_QPSK_3465MHz_Outer_Full



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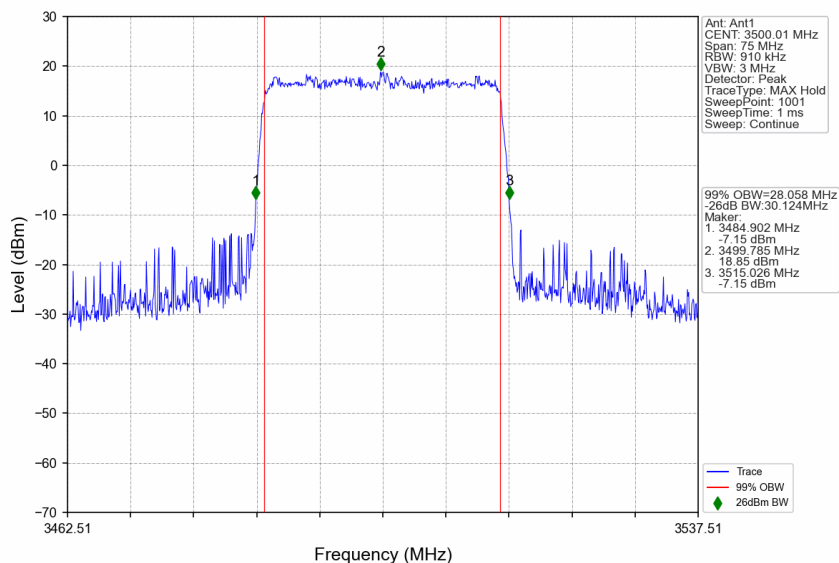
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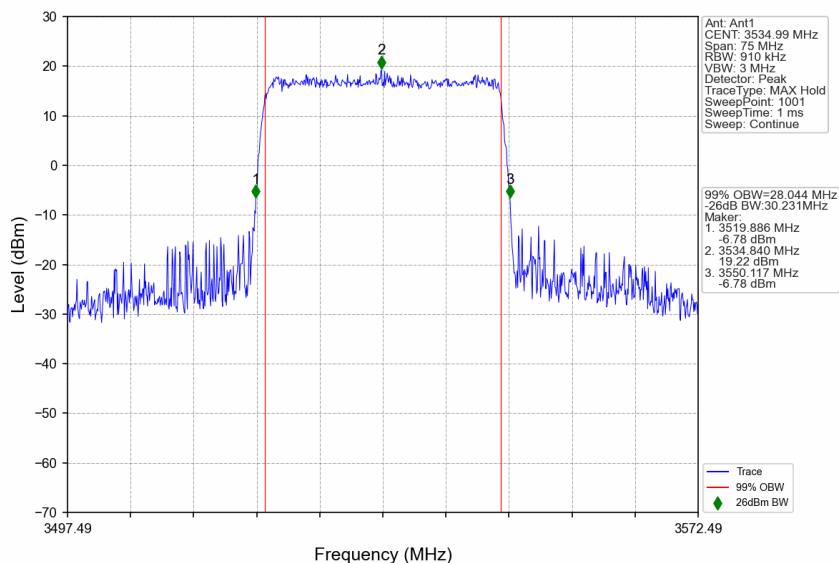
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n77d_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_30MHz_CP-OFDM QPSK_3534.99MHz_Outer_Full



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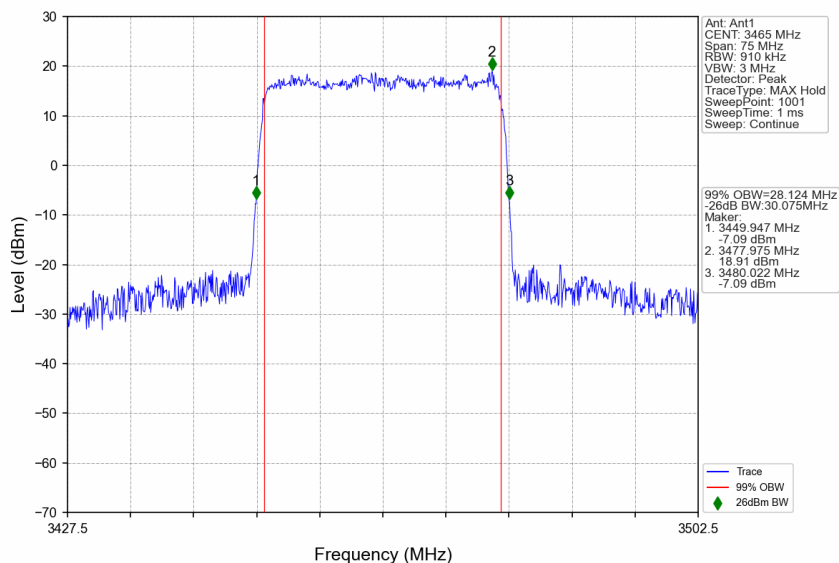
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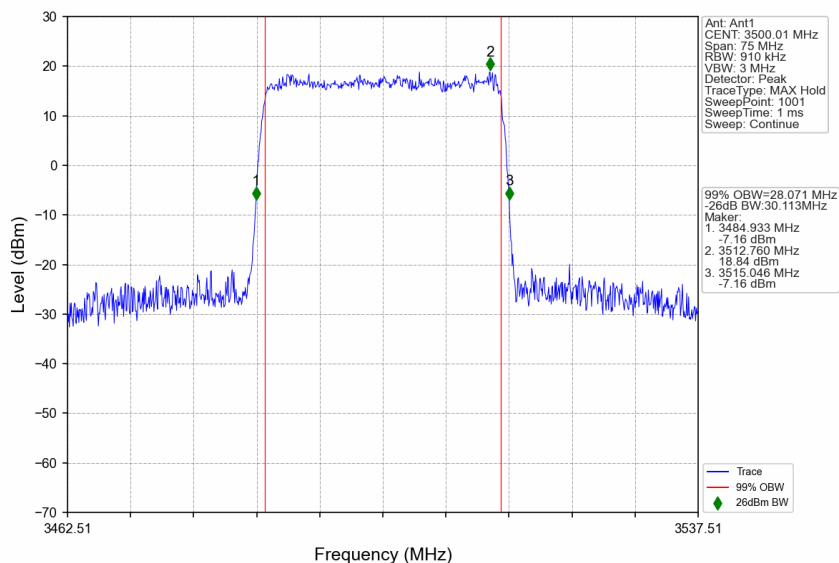
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n77d_30kHz_SISO_NTNV_30MHz_CP-OFDM_16 QAM_3465MHz_Outer_Full



n77d_30kHz_SISO_NTNV_30MHz_CP-OFDM_16 QAM_3500.01MHz_Outer_Full



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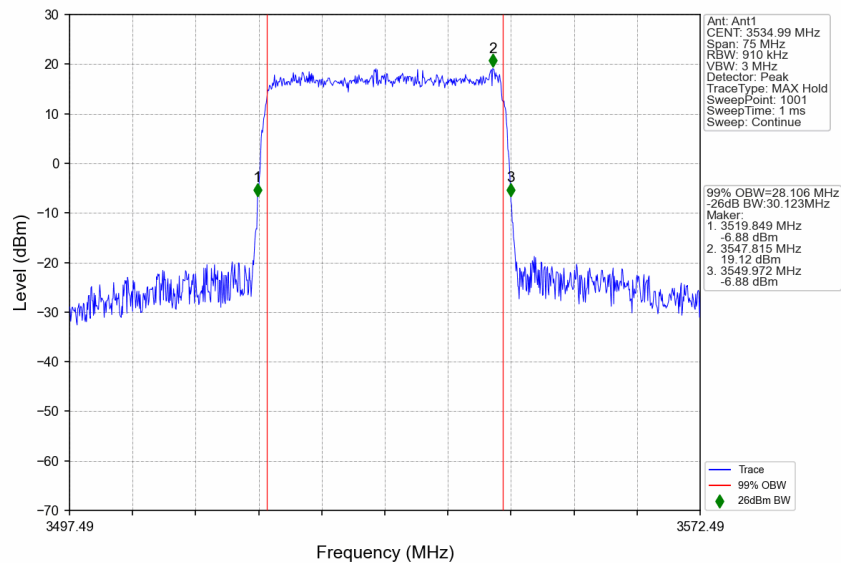
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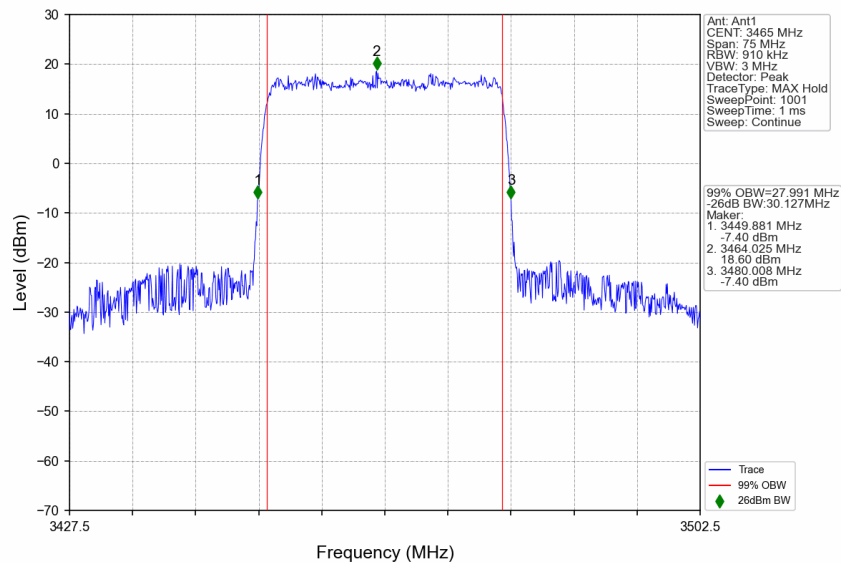
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n77d_30kHz_SISO_NTNV_30MHz_CP-OFDM 16 QAM_3534.99MHz_Outer_Full



n77d_30kHz_SISO_NTNV_30MHz_CP-OFDM 64 QAM_3465MHz_Outer_Full



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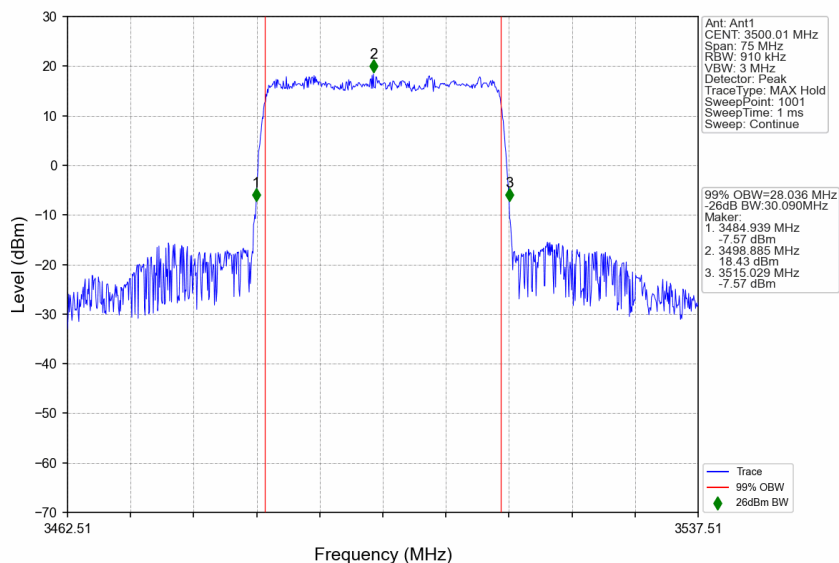
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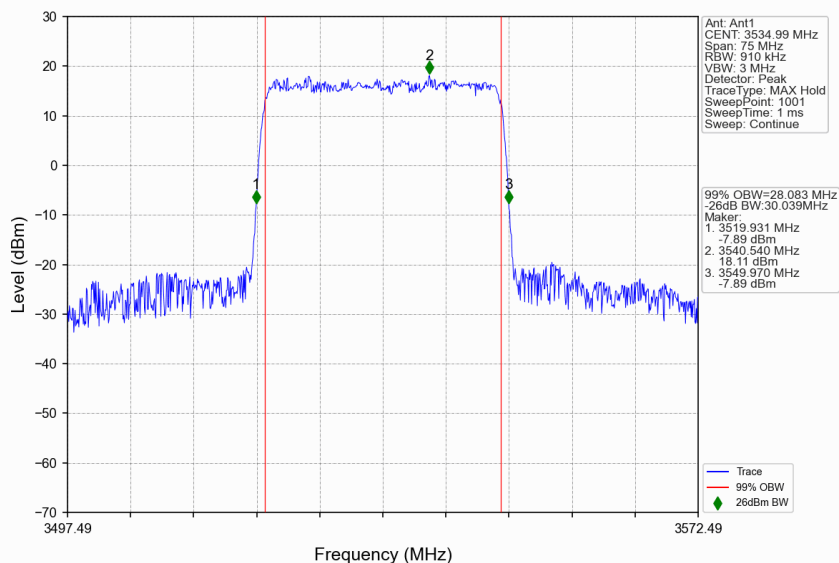
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n77d_30kHz_SISO_NTNV_30MHz_CP-OFDM_64_QAM_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_30MHz_CP-OFDM_64_QAM_3534.99MHz_Outer_Full



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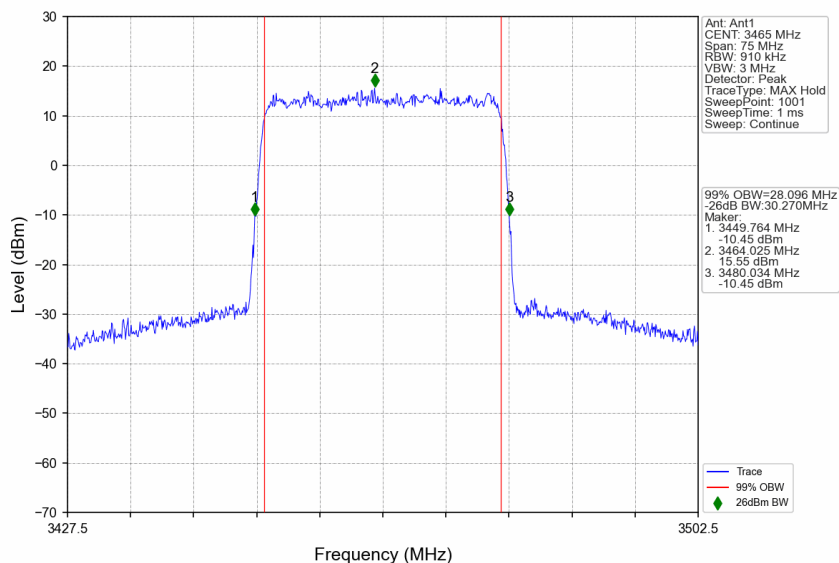
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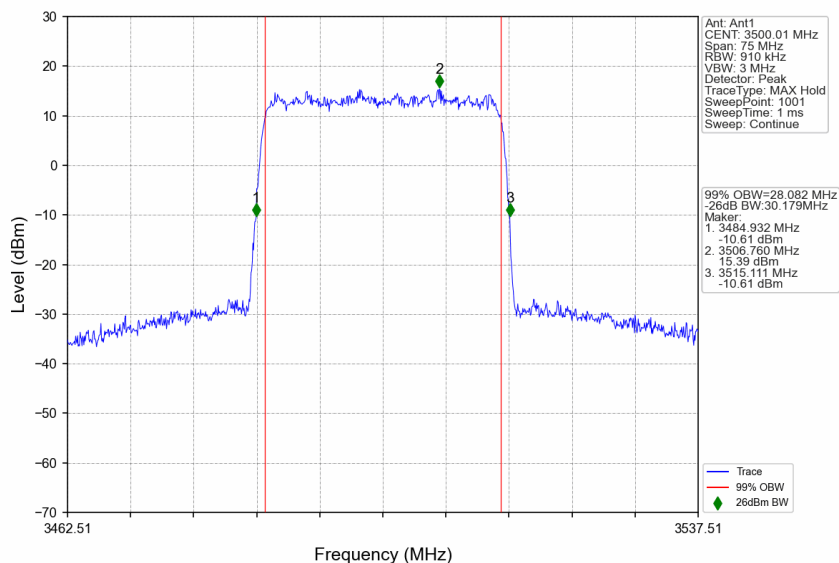
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n77d_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_3465MHz_Outer_Full



n77d_30kHz_SISO_NTNV_30MHz_CP-OFDM 256 QAM_3500.01MHz_Outer_Full



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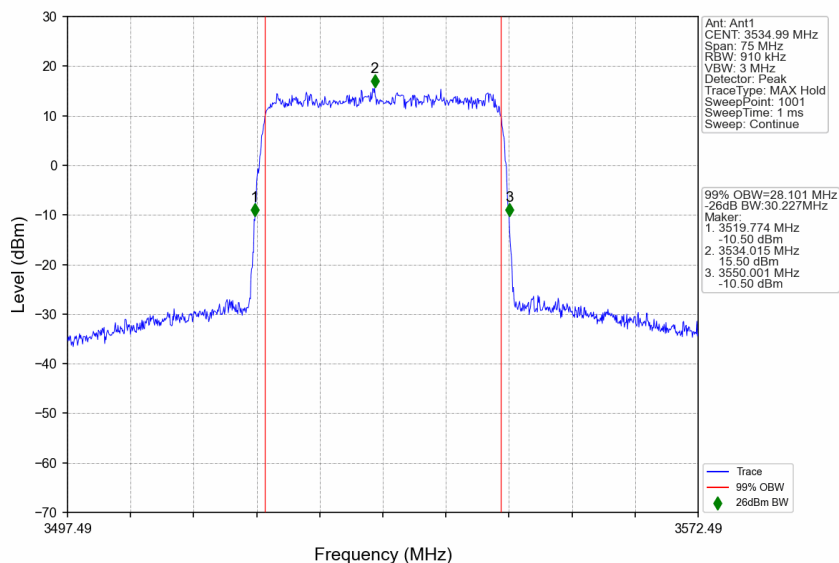
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4.13 30k_SISO_40MHz_NTNV

4.13.1 Test Result

5G NR n77d SCS=30kHz SISO 40MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	3470.01	Outer Full	36.05	38.66	/	Pass
	3500.01	Outer Full	36.17	38.70	/	Pass
	3529.98	Outer Full	36.17	38.71	/	Pass
DFT-s-OFDM QPSK	3470.01	Outer Full	36.11	38.76	/	Pass
	3500.01	Outer Full	36.20	38.68	/	Pass
	3529.98	Outer Full	36.12	38.64	/	Pass
DFT-s-OFDM 16 QAM	3470.01	Outer Full	36.04	38.63	/	Pass
	3500.01	Outer Full	36.03	38.67	/	Pass
	3529.98	Outer Full	36.05	38.79	/	Pass
DFT-s-OFDM 64 QAM	3470.01	Outer Full	36.04	38.72	/	Pass
	3500.01	Outer Full	36.14	38.91	/	Pass
	3529.98	Outer Full	36.07	38.72	/	Pass
DFT-s-OFDM 256 QAM	3470.01	Outer Full	35.99	38.61	/	Pass
	3500.01	Outer Full	35.96	38.69	/	Pass
	3529.98	Outer Full	36.05	38.71	/	Pass
CP-OFDM QPSK	3470.01	Outer Full	38.05	40.75	/	Pass
	3500.01	Outer Full	38.09	40.83	/	Pass
	3529.98	Outer Full	38.07	40.81	/	Pass
CP-OFDM 16 QAM	3470.01	Outer Full	38.09	40.76	/	Pass
	3500.01	Outer Full	38.18	40.79	/	Pass
	3529.98	Outer Full	38.15	40.87	/	Pass
CP-OFDM 64 QAM	3470.01	Outer Full	38.11	40.80	/	Pass
	3500.01	Outer Full	38.13	40.81	/	Pass
	3529.98	Outer Full	38.12	40.85	/	Pass
CP-OFDM 256 QAM	3470.01	Outer Full	38.05	40.76	/	Pass
	3500.01	Outer Full	38.10	40.78	/	Pass
	3529.98	Outer Full	38.08	40.84	/	Pass



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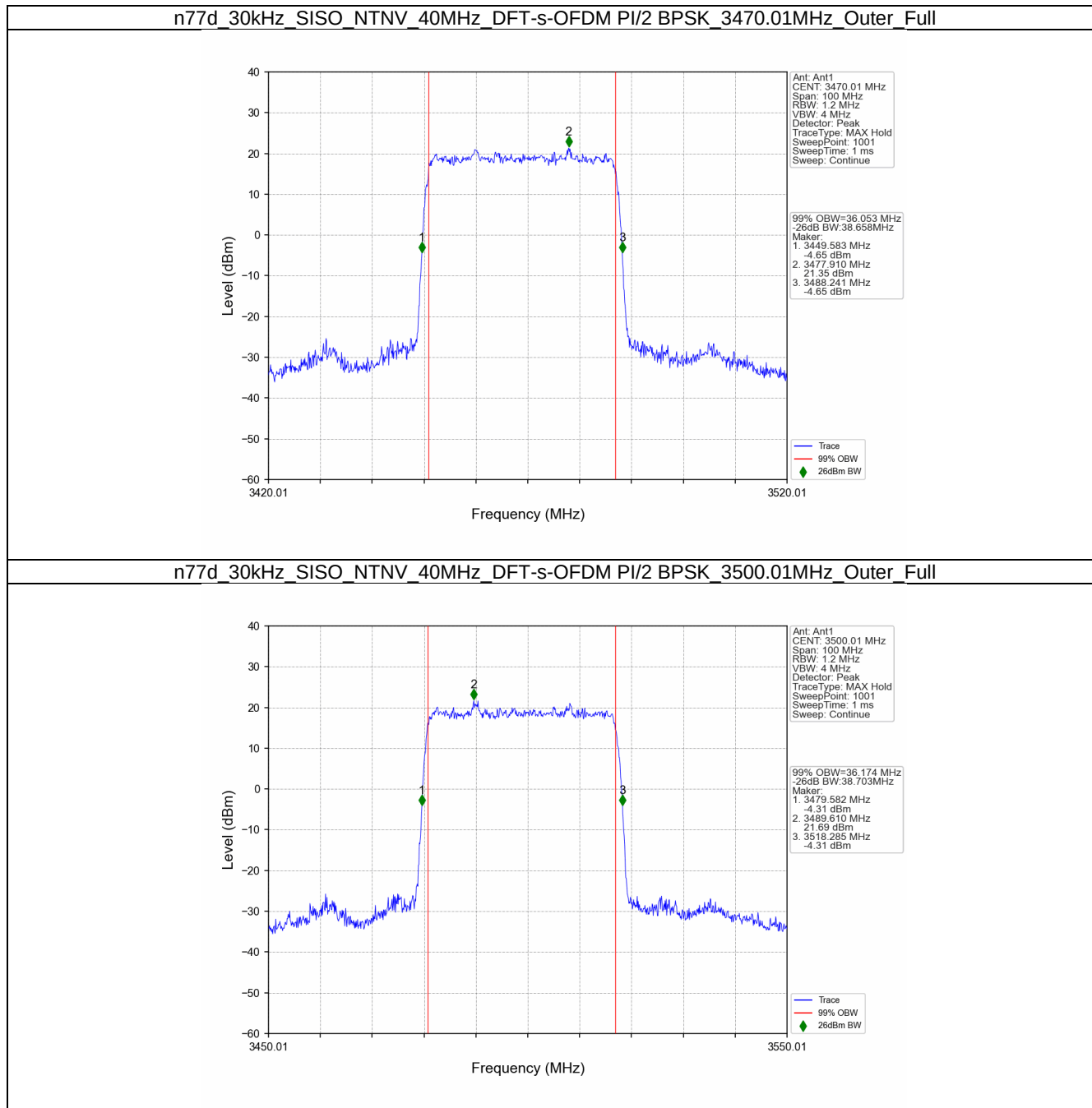
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4.13.2 Test Graph



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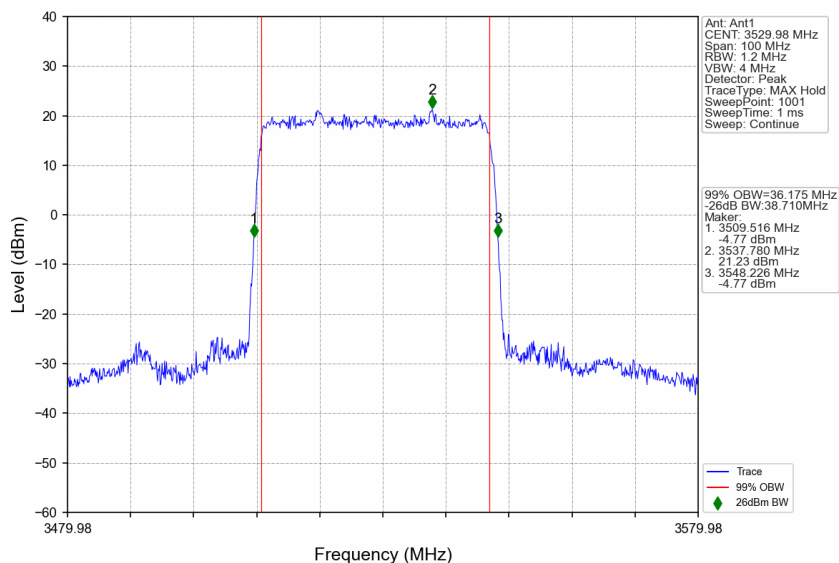
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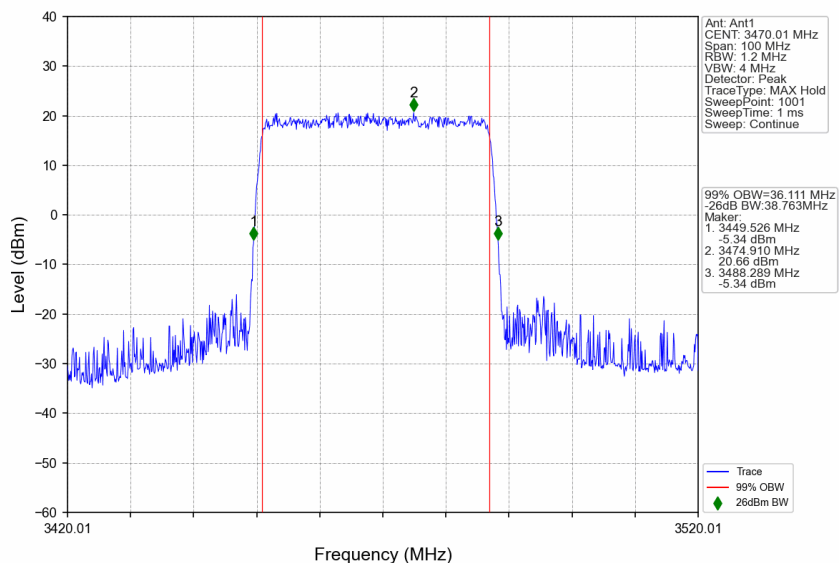
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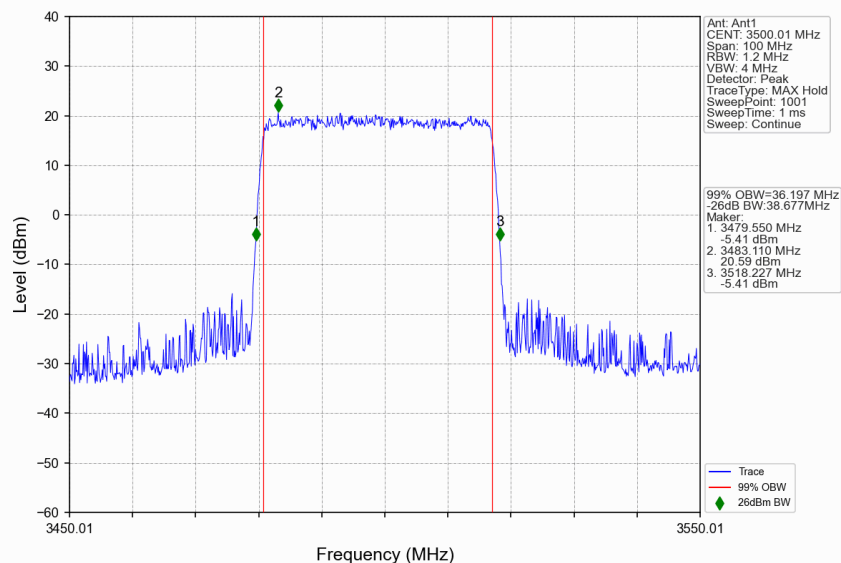
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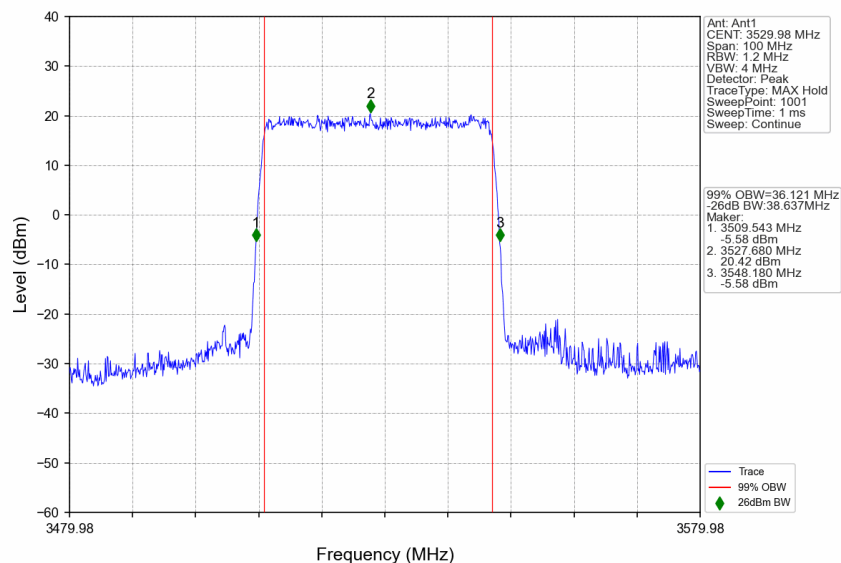
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n77d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM QPSK_3529.98MHz_Outer_Full



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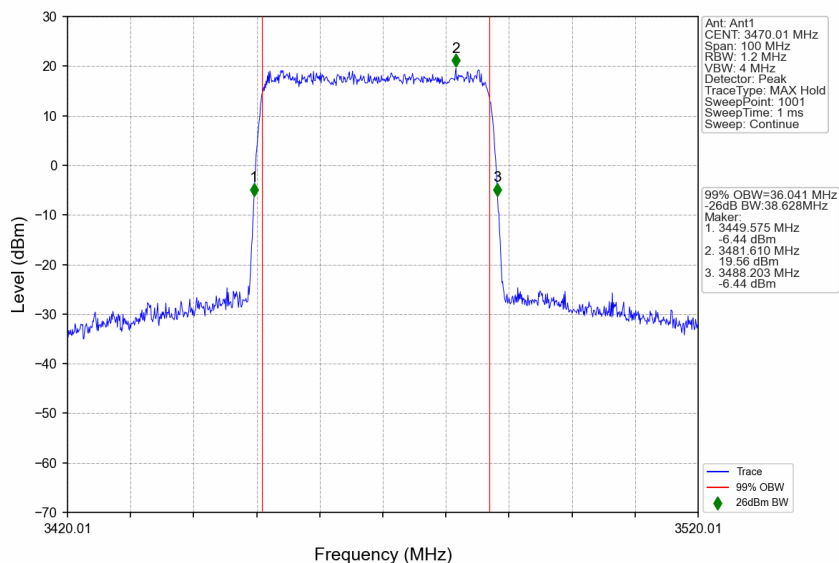
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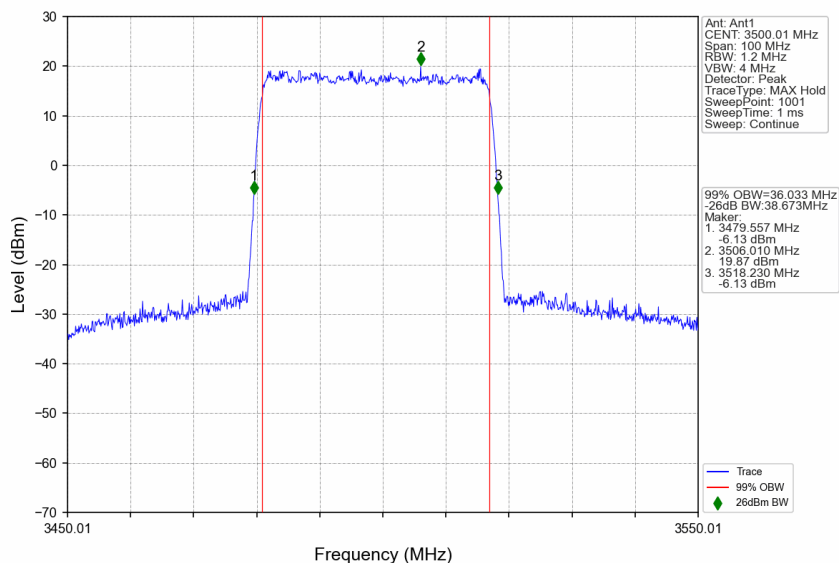
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n77d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_3470.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_16_QAM_3500.01MHz_Outer_Full



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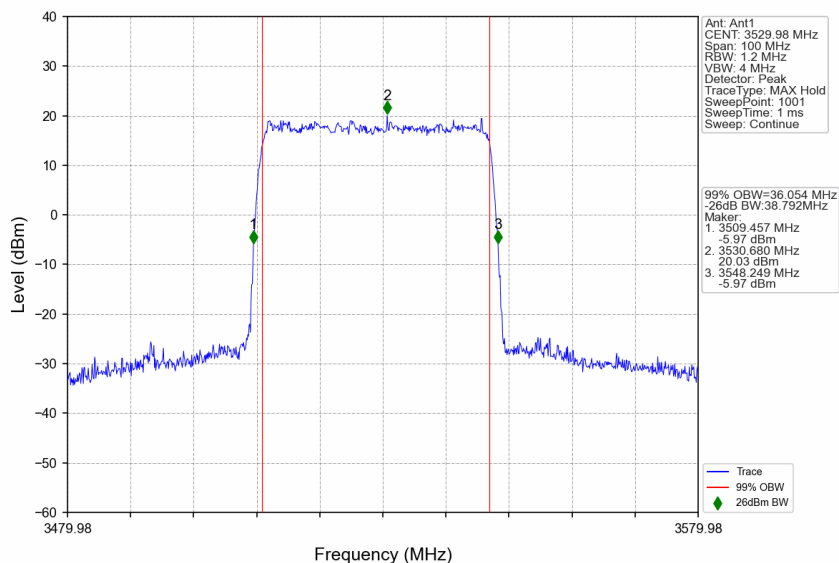
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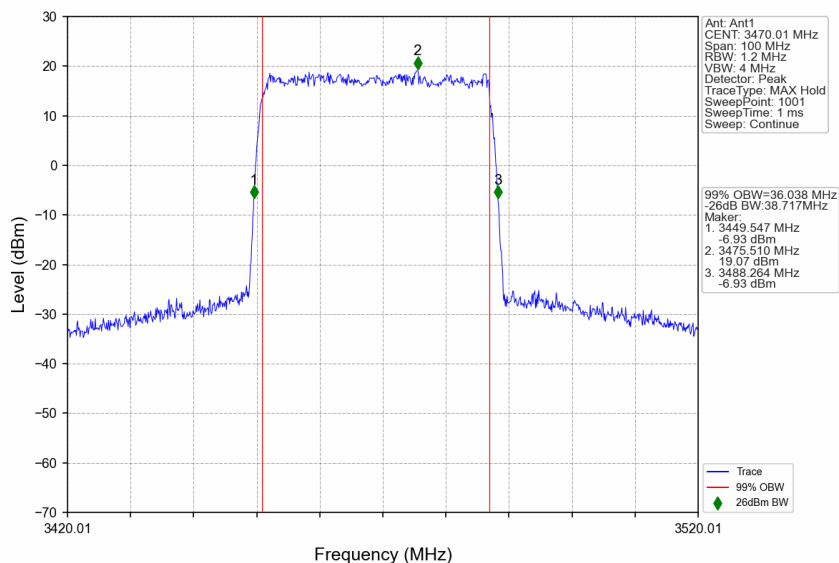
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n77d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 16 QAM_3529.98MHz_Outer_Full



n77d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM_3470.01MHz_Outer_Full



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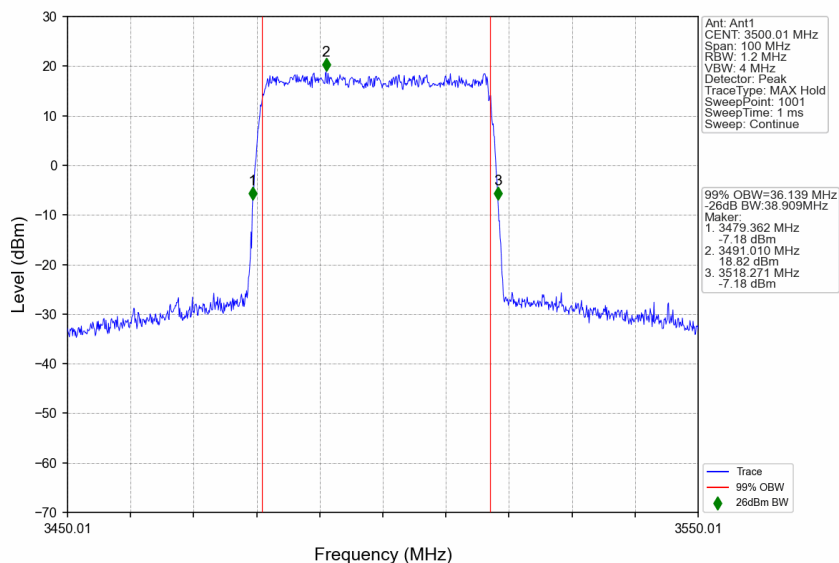
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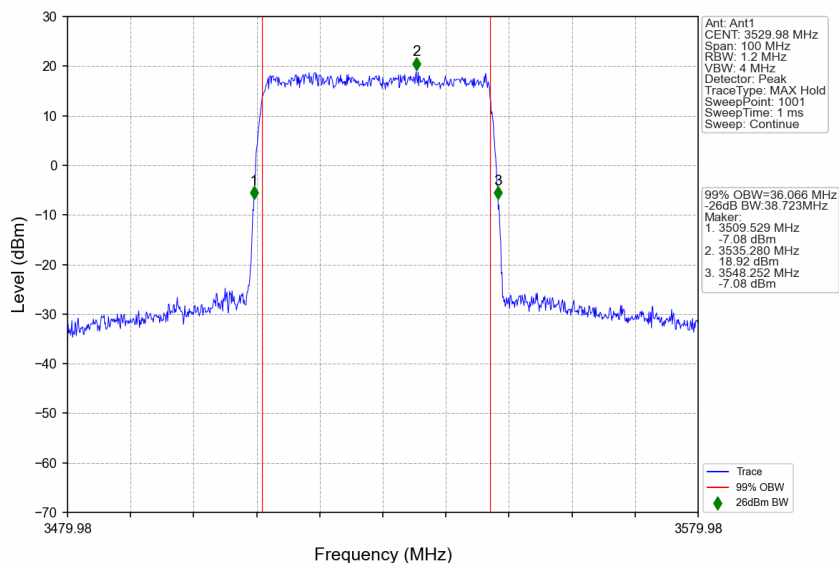
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n77d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_64_QAM_3529.98MHz_Outer_Full



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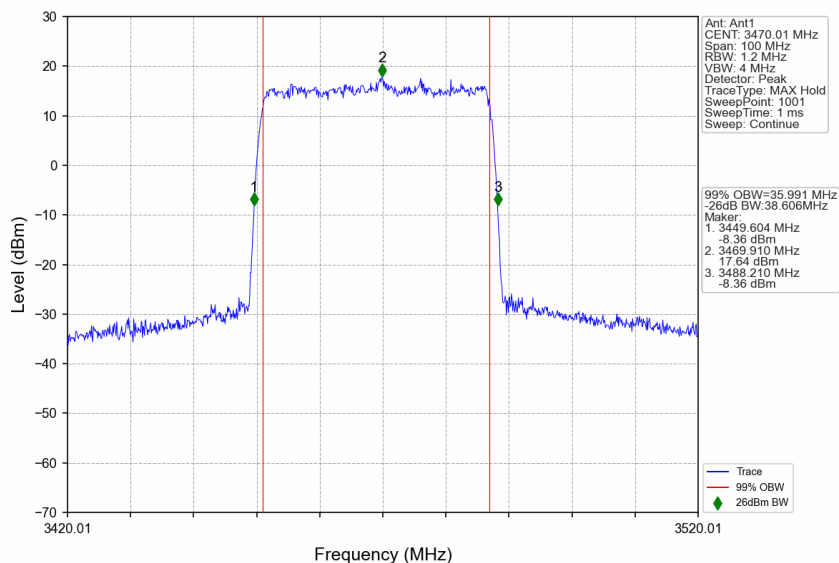
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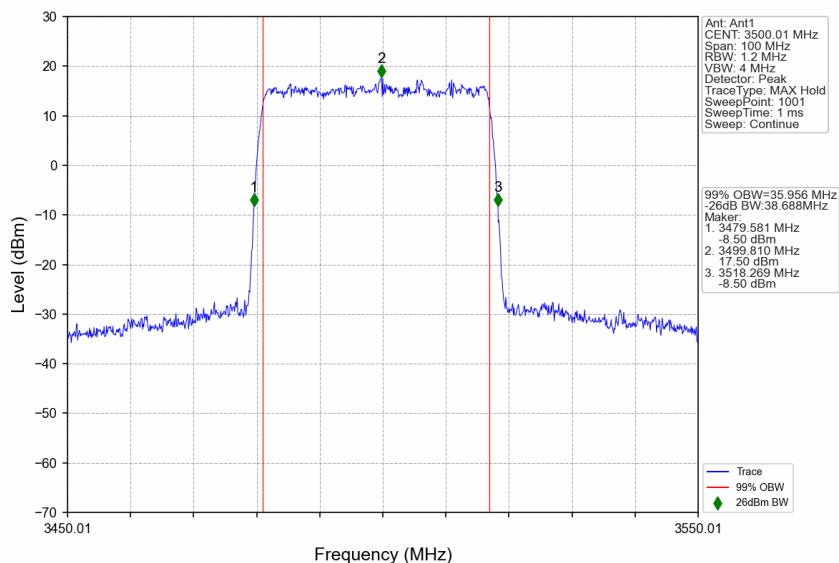
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n77d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_3470.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_3500.01MHz_Outer_Full



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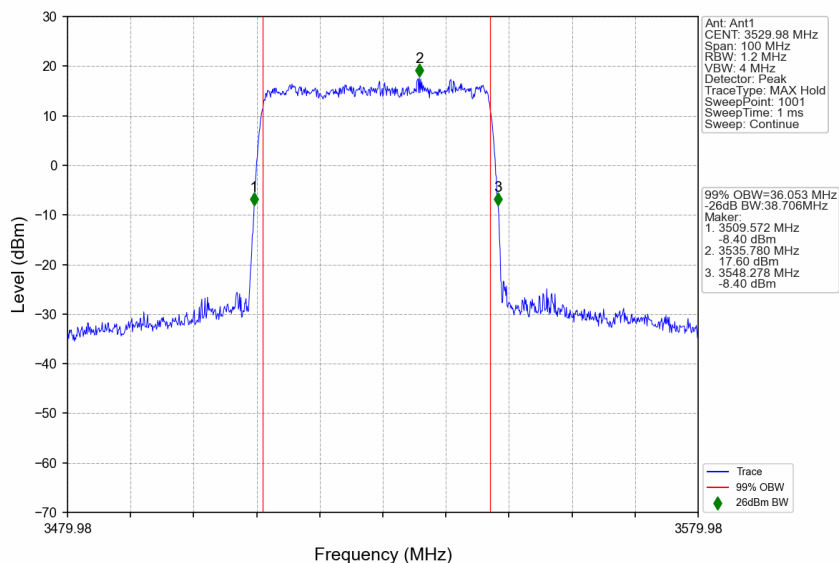
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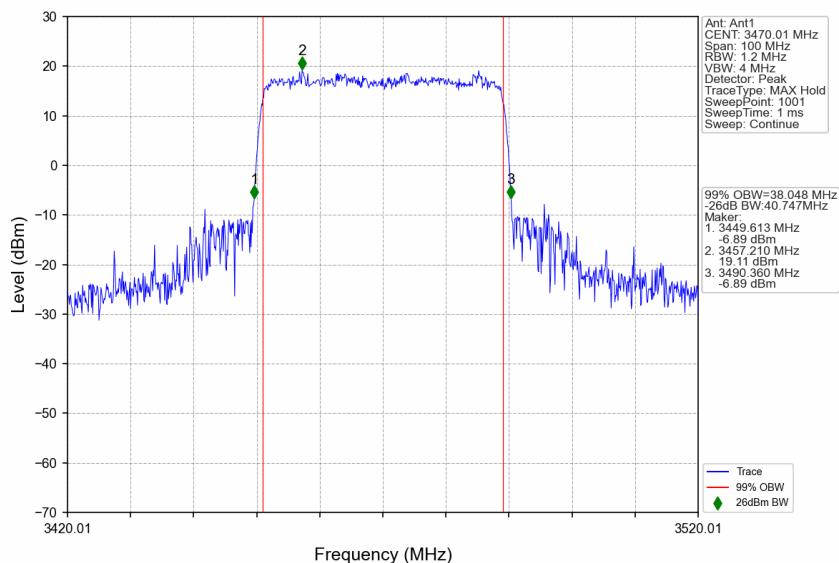
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n77d_30kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256_QAM_3529.98MHz_Outer_Full



n77d_30kHz_SISO_NTNV_40MHz_CP-OFDM_QPSK_3470.01MHz_Outer_Full



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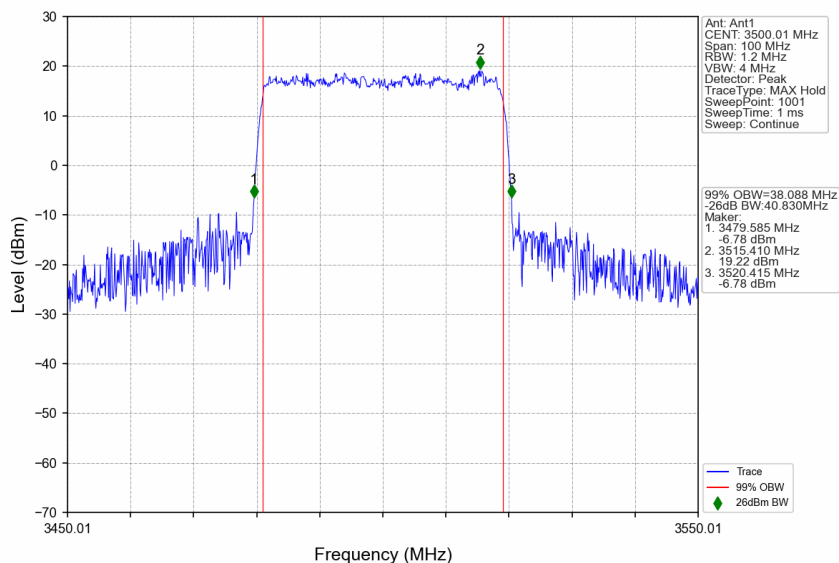
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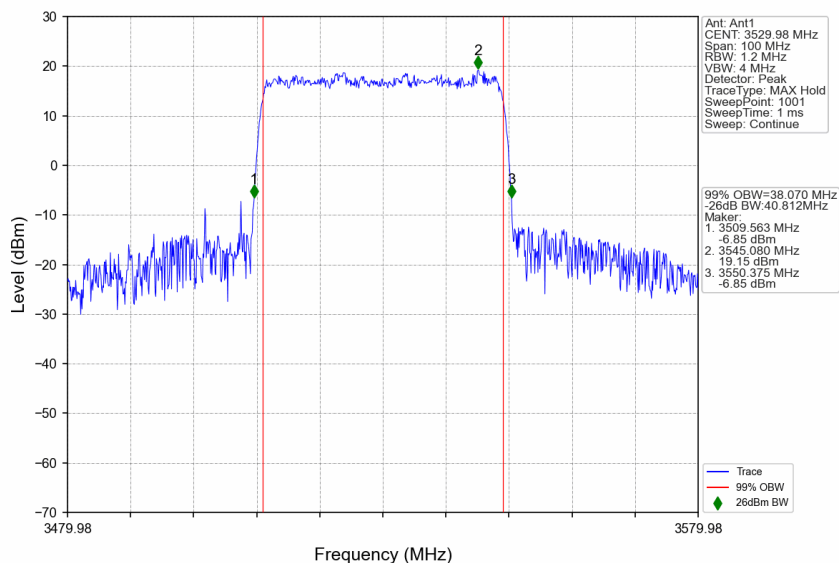
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n77d_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_3529.98MHz_Outer_Full



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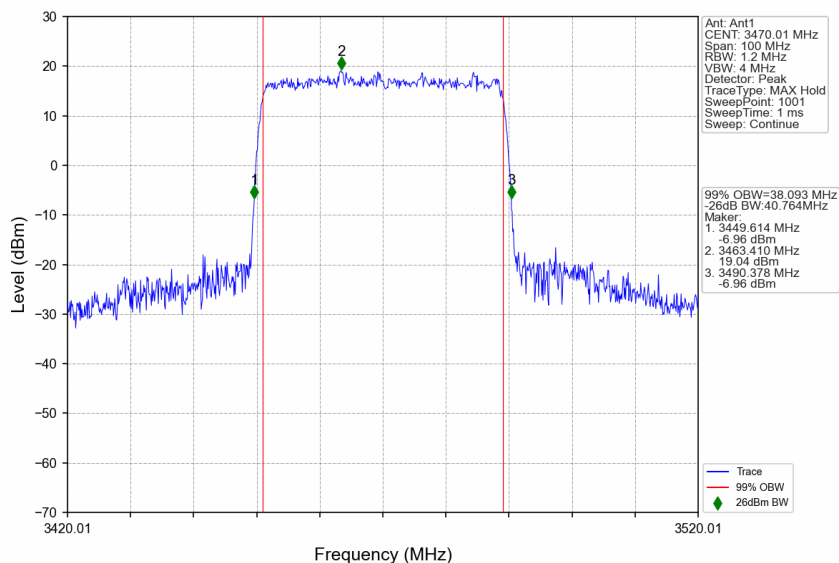
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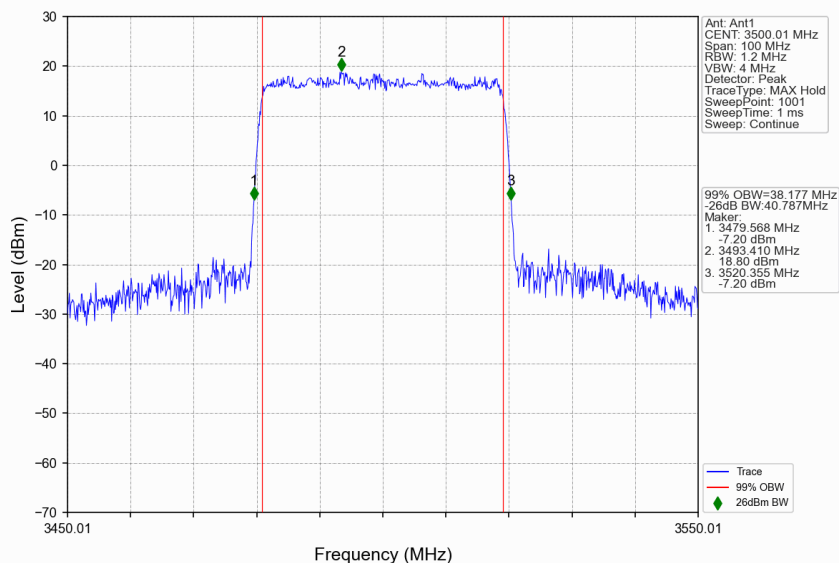
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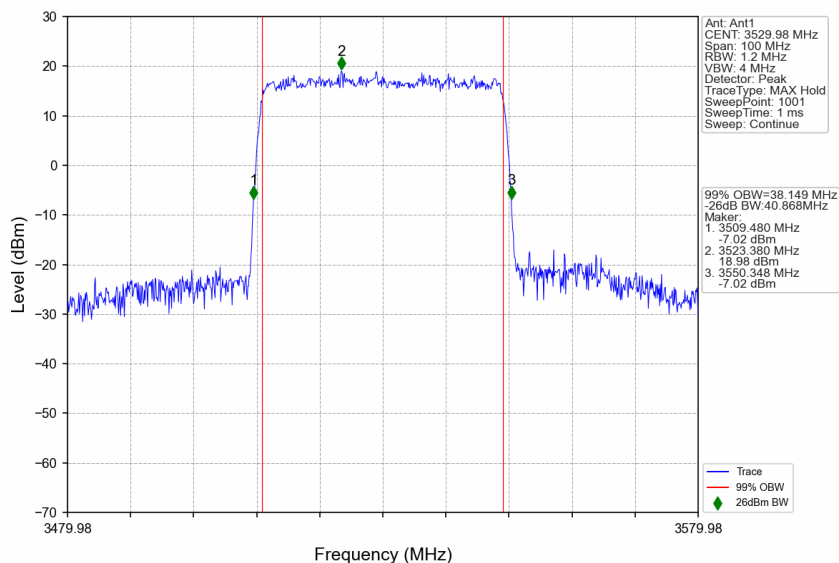
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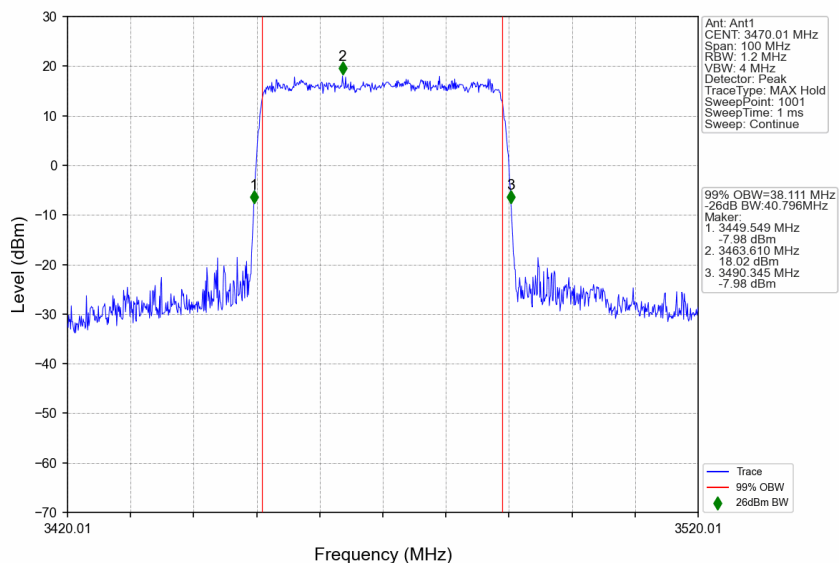
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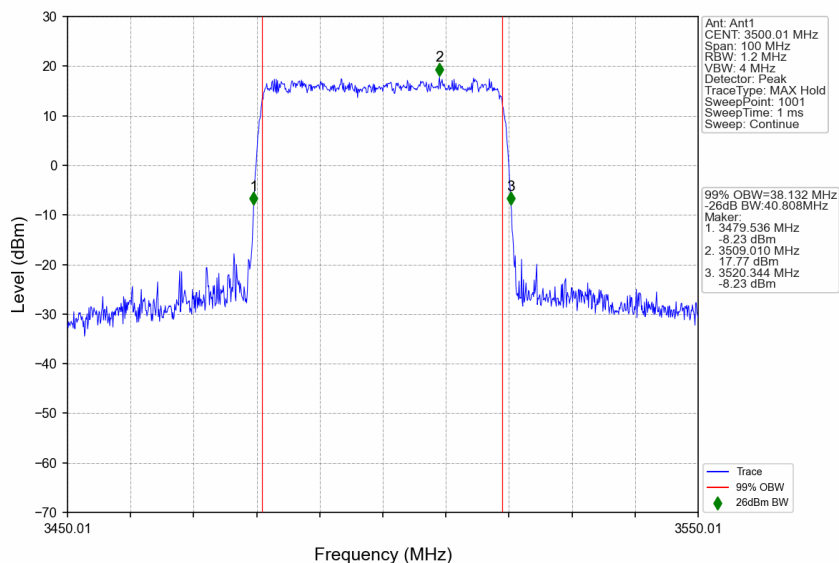
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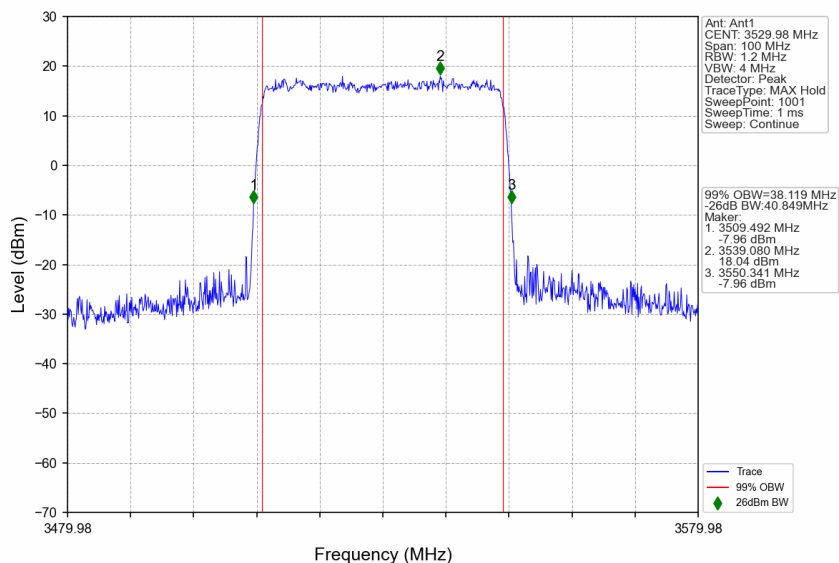
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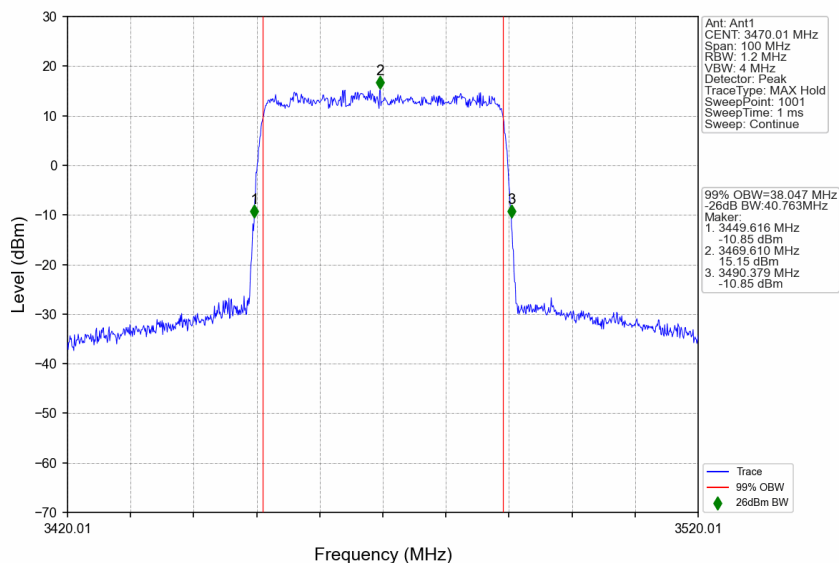
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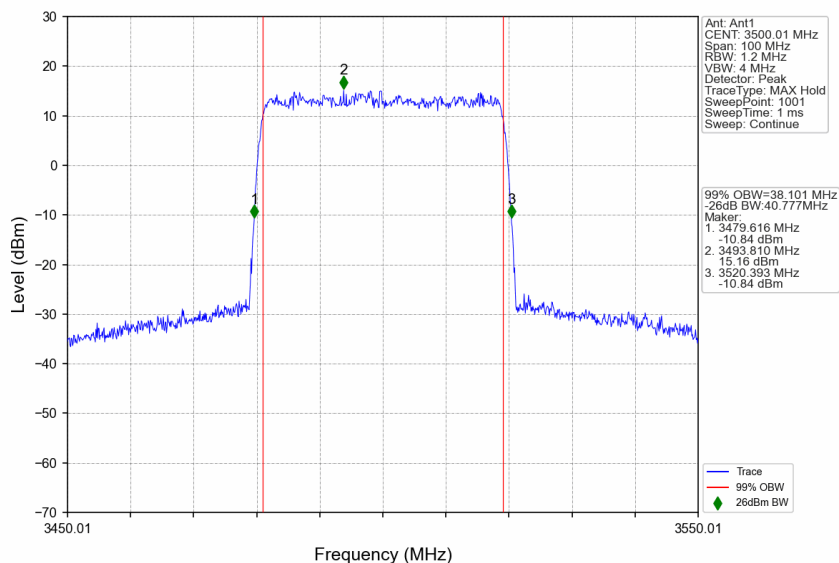
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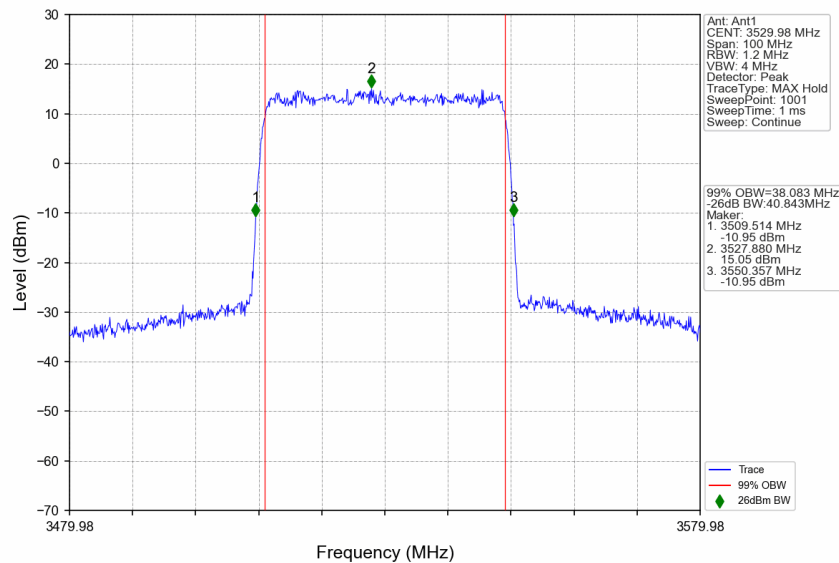
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n77d_30kHz_SISO_NTNV_40MHz_CP-OFDM_256_QAM_3529.98MHz_Outer_Full



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4.14 30k_SISO_50MHz_NTNV

4.14.1 Test Result

5G NR n77d 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	3475.02	Outer Full	46.14	49.40	/	Pass
	3500.01	Outer Full	46.13	49.24	/	Pass
	3525	Outer Full	46.19	49.34	/	Pass
DFT-s-OFDM QPSK	3475.02	Outer Full	46.10	49.44	/	Pass
	3500.01	Outer Full	46.09	49.49	/	Pass
	3525	Outer Full	46.13	49.41	/	Pass
DFT-s-OFDM 16 QAM	3475.02	Outer Full	46.04	49.41	/	Pass
	3500.01	Outer Full	46.04	49.31	/	Pass
	3525	Outer Full	46.02	49.46	/	Pass
DFT-s-OFDM 64 QAM	3475.02	Outer Full	46.10	49.41	/	Pass
	3500.01	Outer Full	46.12	49.38	/	Pass
	3525	Outer Full	46.14	49.43	/	Pass
DFT-s-OFDM 256 QAM	3475.02	Outer Full	46.04	49.30	/	Pass
	3500.01	Outer Full	46.05	49.32	/	Pass
	3525	Outer Full	45.99	49.31	/	Pass
CP-OFDM QPSK	3475.02	Outer Full	47.81	51.20	/	Pass
	3500.01	Outer Full	47.77	51.22	/	Pass
	3525	Outer Full	47.76	51.18	/	Pass
CP-OFDM 16 QAM	3475.02	Outer Full	47.73	51.16	/	Pass
	3500.01	Outer Full	47.75	51.15	/	Pass
	3525	Outer Full	47.73	51.12	/	Pass
CP-OFDM 64 QAM	3475.02	Outer Full	47.89	51.16	/	Pass
	3500.01	Outer Full	47.98	51.24	/	Pass
	3525	Outer Full	47.90	51.20	/	Pass
CP-OFDM 256 QAM	3475.02	Outer Full	47.73	51.23	/	Pass
	3500.01	Outer Full	47.75	51.19	/	Pass
	3525	Outer Full	47.73	51.13	/	Pass



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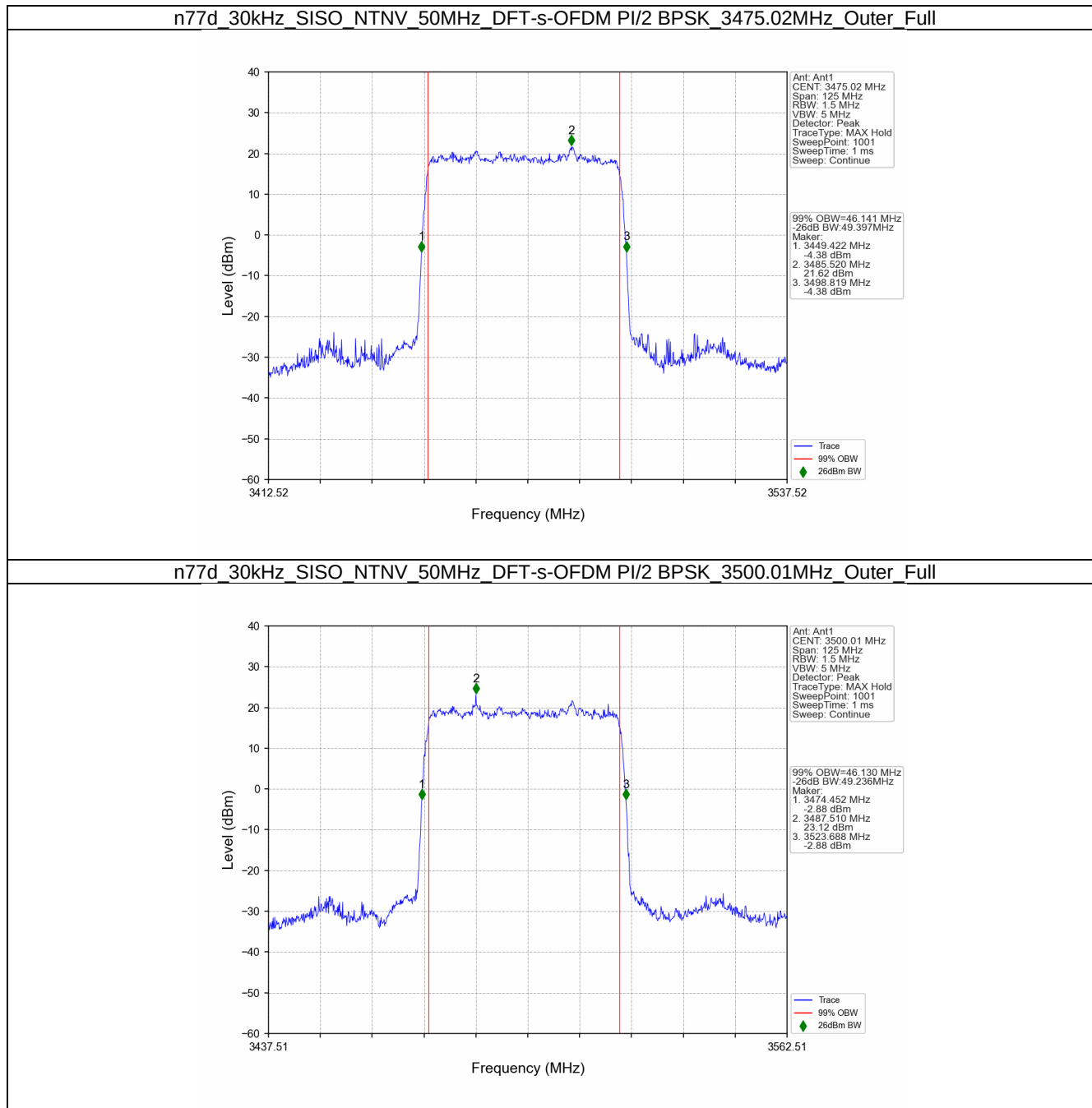
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4.14.2 Test Graph



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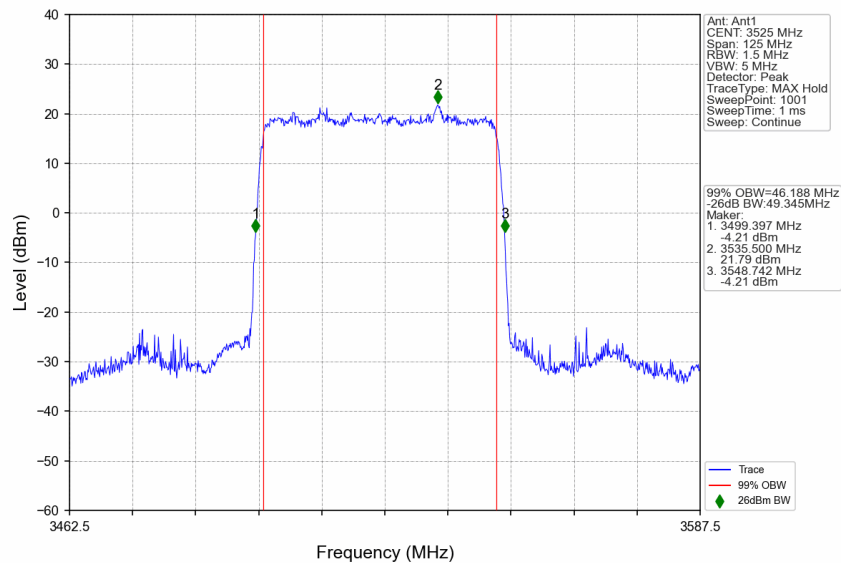
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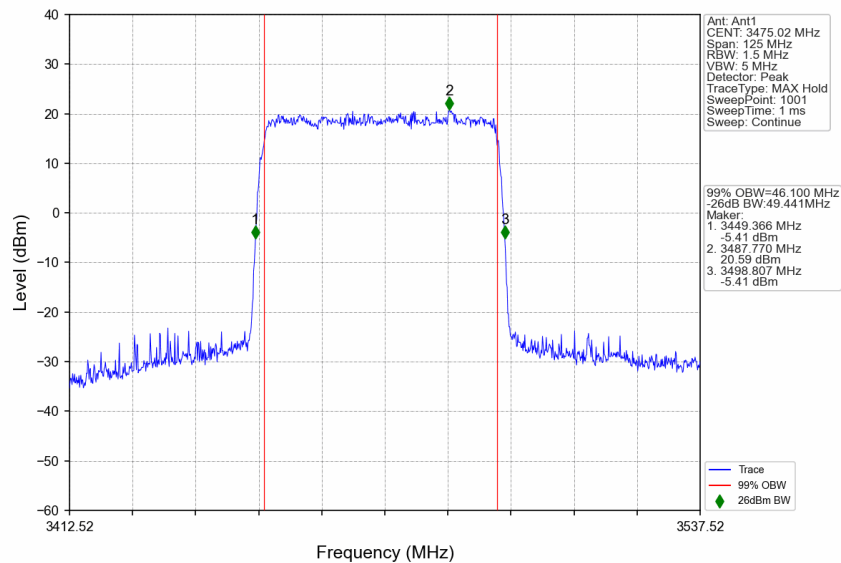
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n77d_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM PI/2 BPSK_3525MHz_Outer_Full



n77d_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM QPSK_3475.02MHz_Outer_Full



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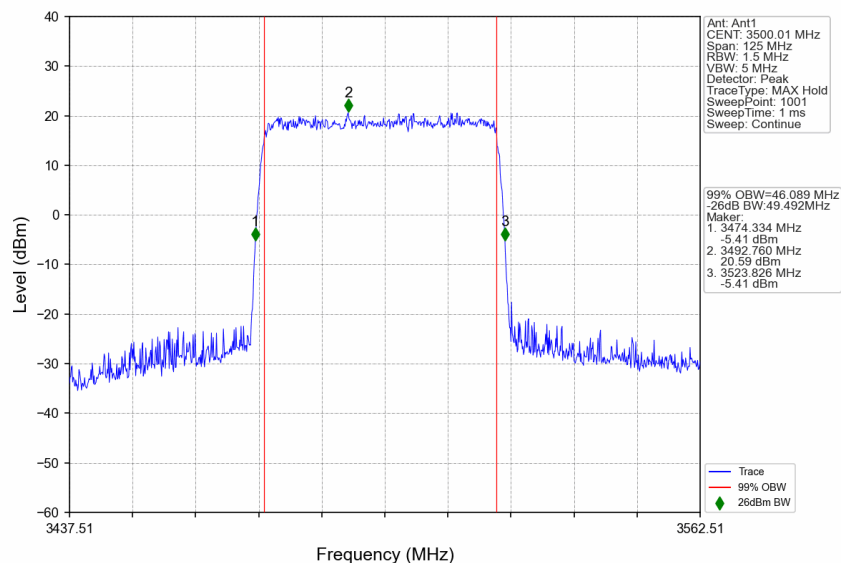
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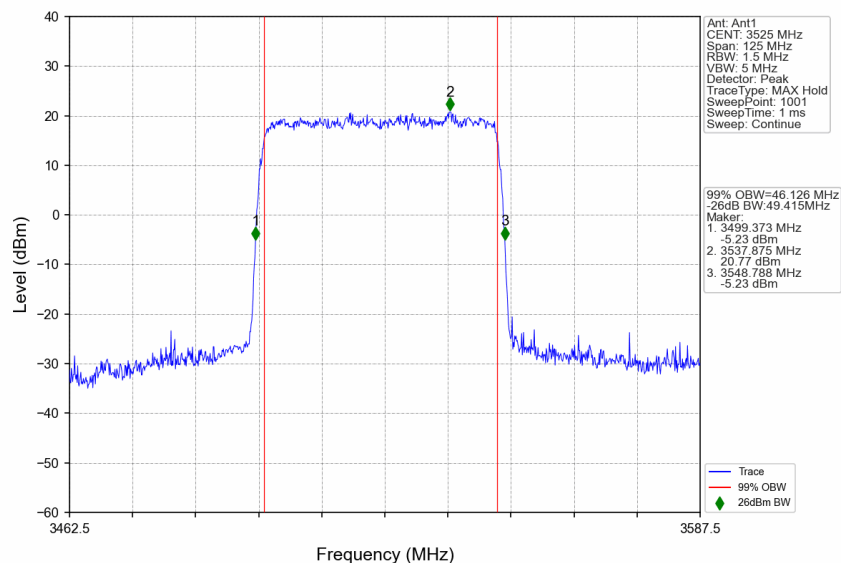
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n77d_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM QPSK_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM QPSK_3525MHz_Outer_Full



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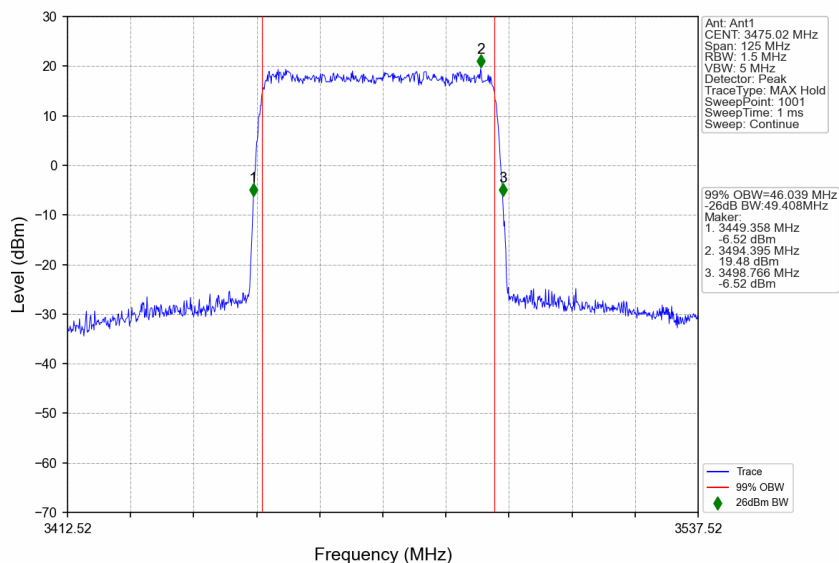
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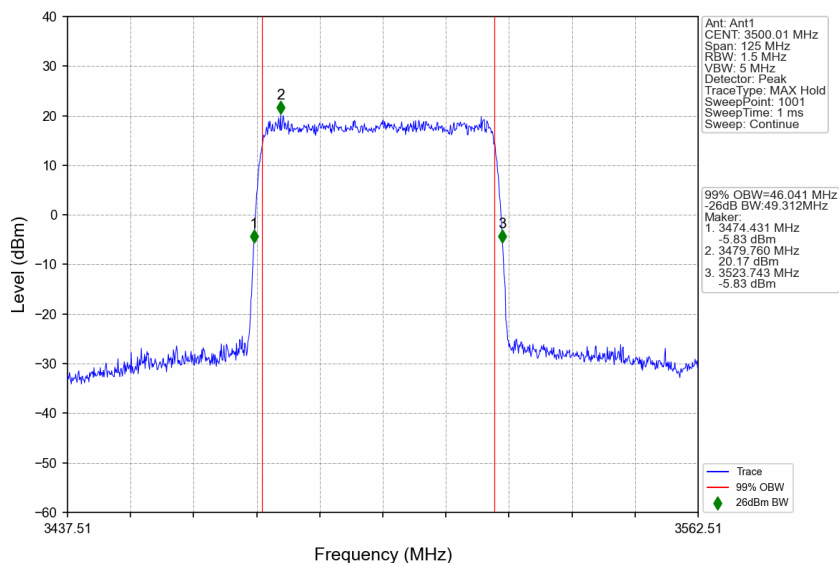
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n77d_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_16_QAM_3475.02MHz_Outer_Full



n77d_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_16_QAM_3500.01MHz_Outer_Full



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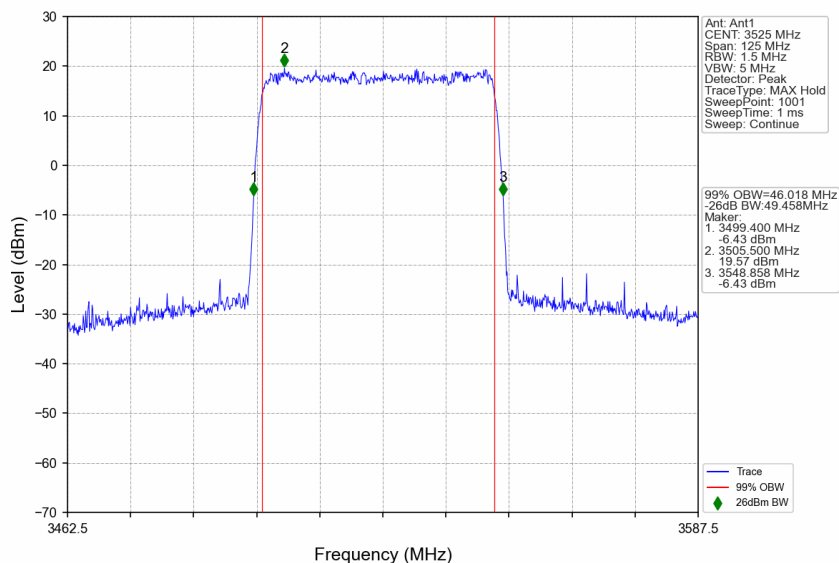
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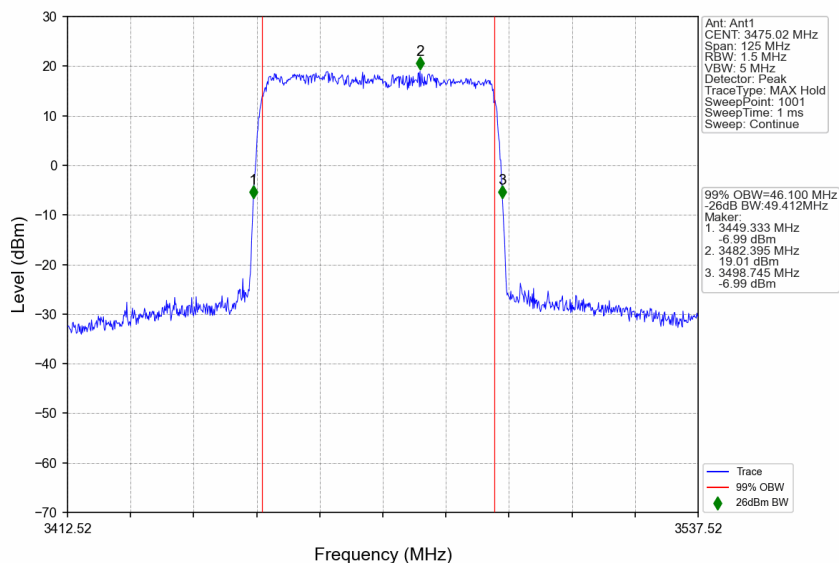
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n77d_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 16 QAM_3525MHz_Outer_Full



n77d_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM 64 QAM_3475.02MHz_Outer_Full



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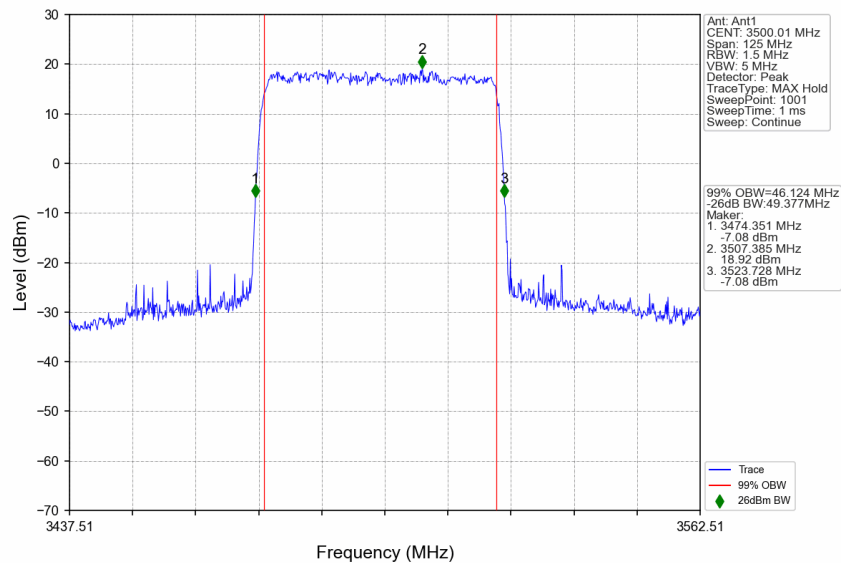
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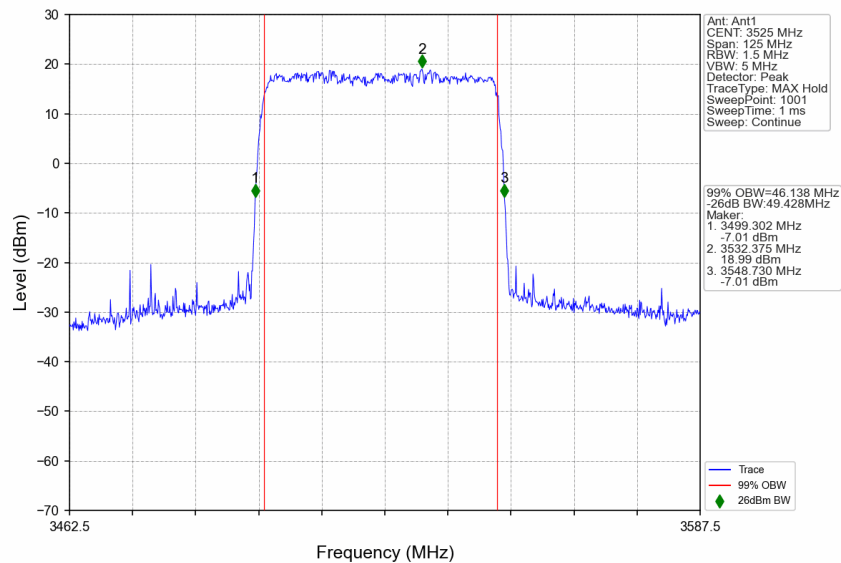
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n77d_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_64_QAM_3525MHz_Outer_Full



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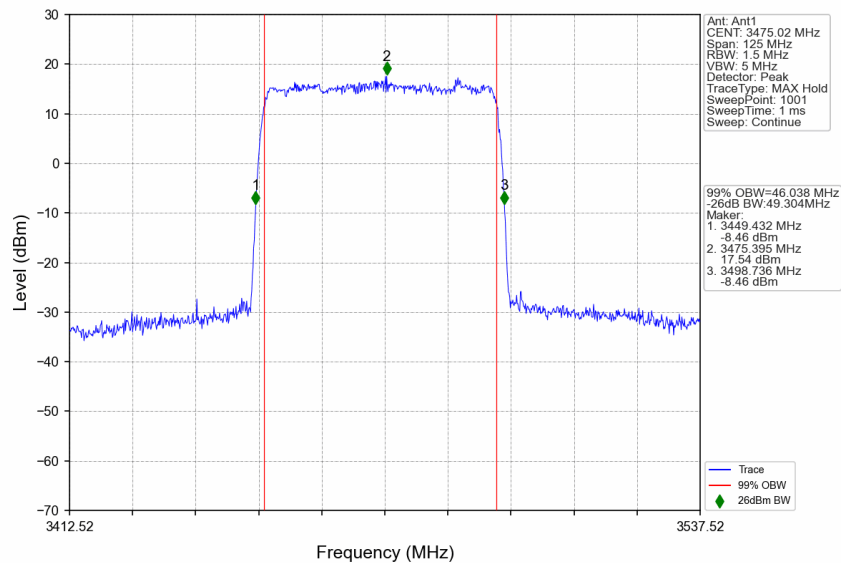
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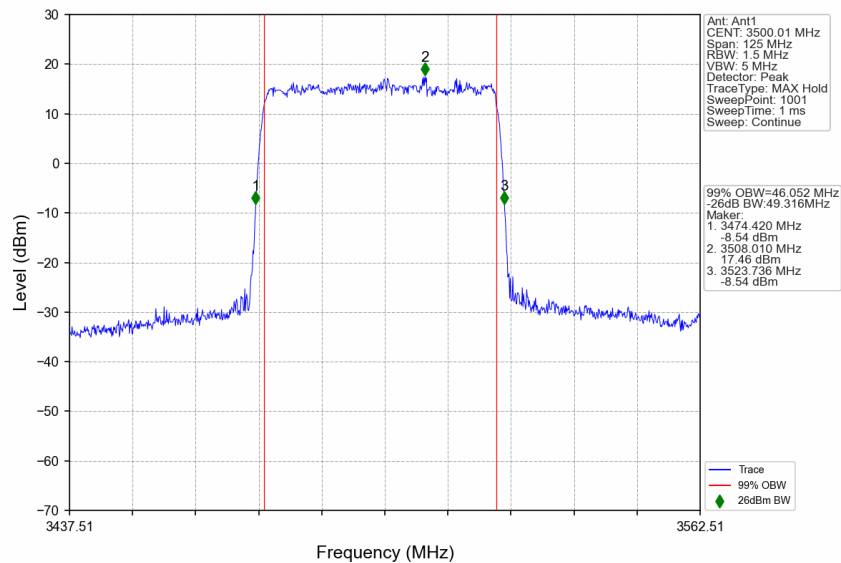
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n77d_30kHz_SISO_NTNV_50MHz_DFT-s-OFDM_256_QAM_3475.02MHz_Outer_Full



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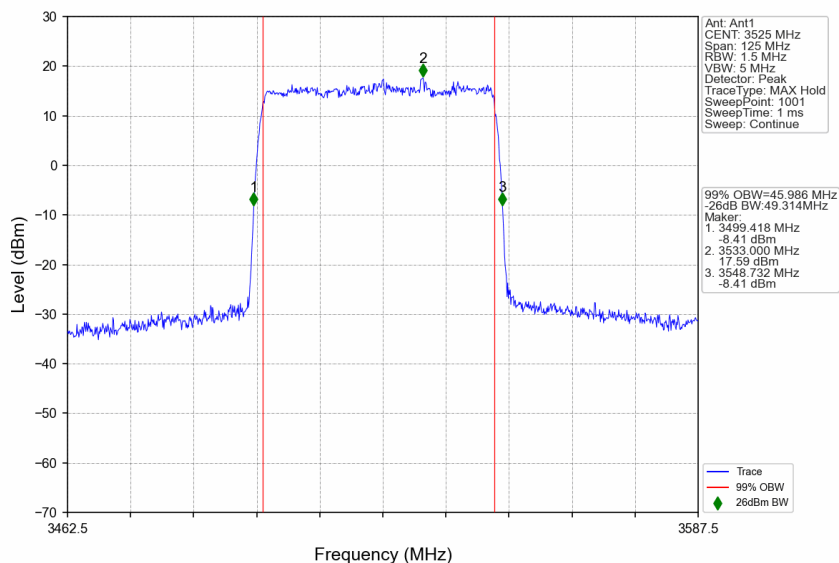
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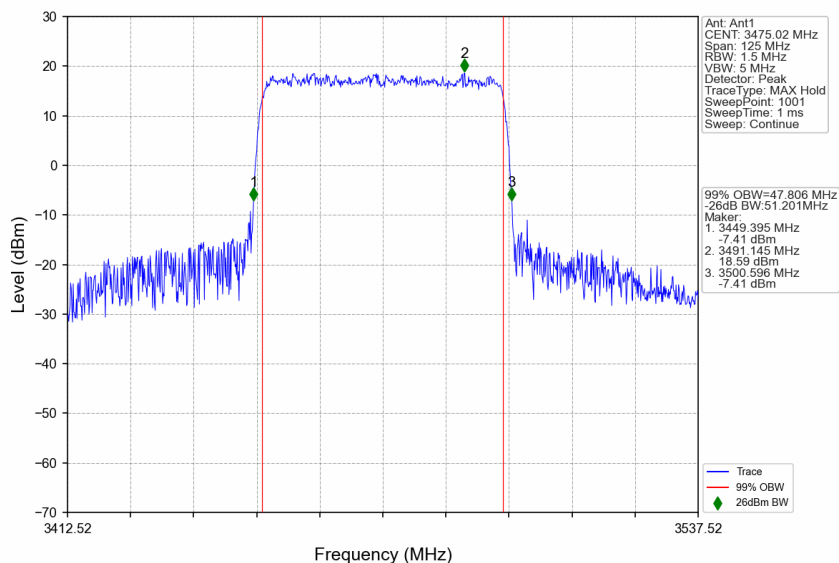
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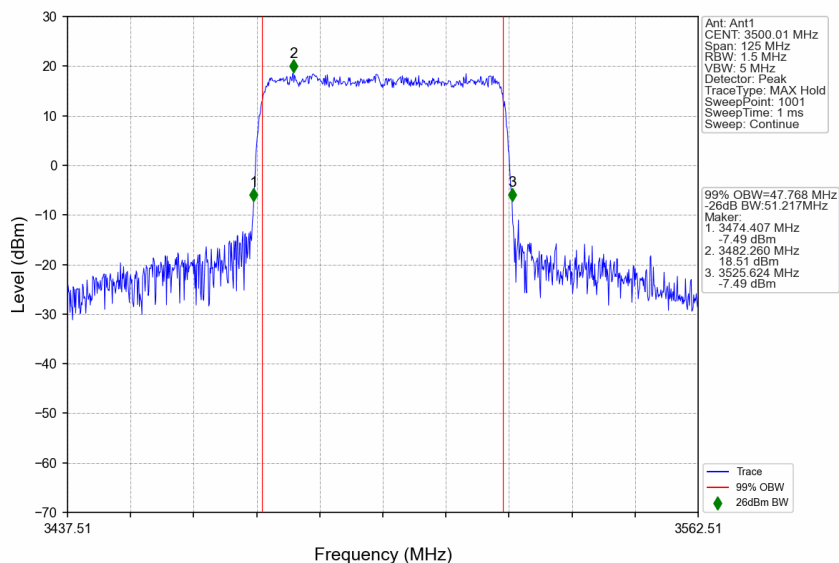
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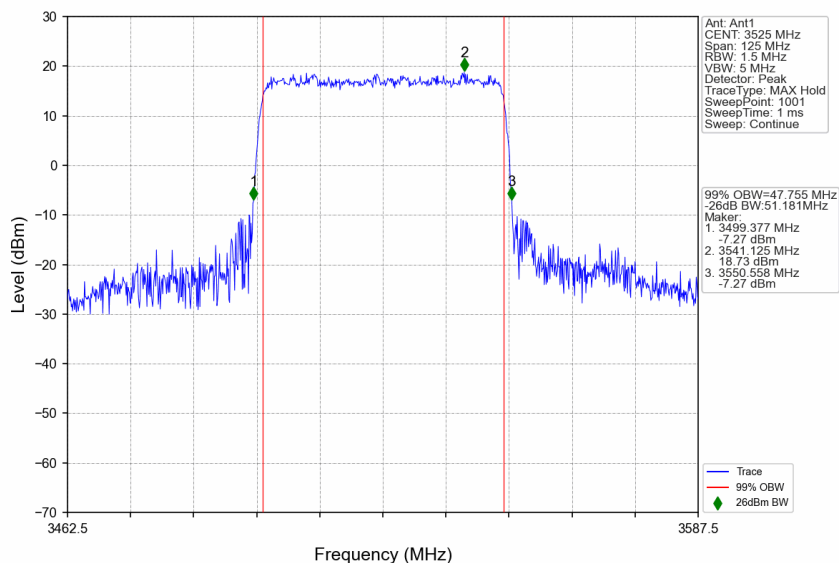
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n77d_30kHz_SISO_NTNV_50MHz_CP-OFDM QPSK_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_50MHz_CP-OFDM QPSK_3525MHz_Outer_Full



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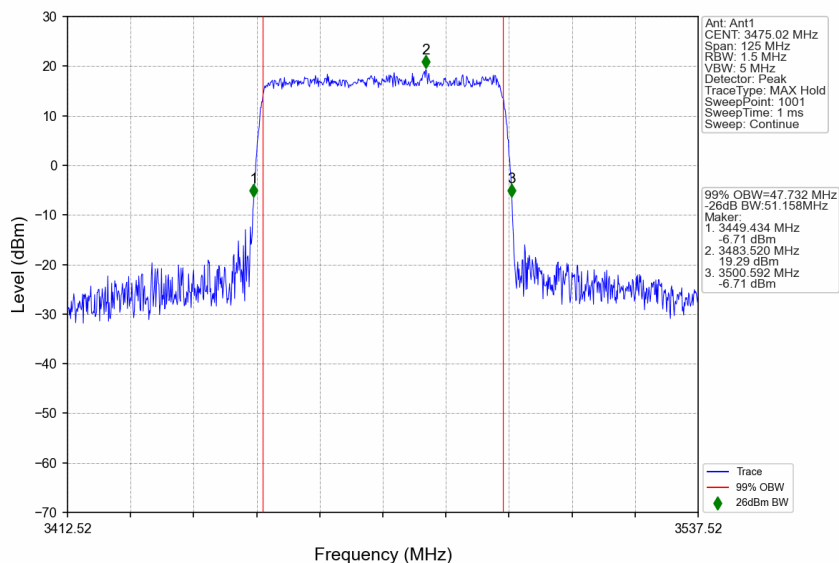
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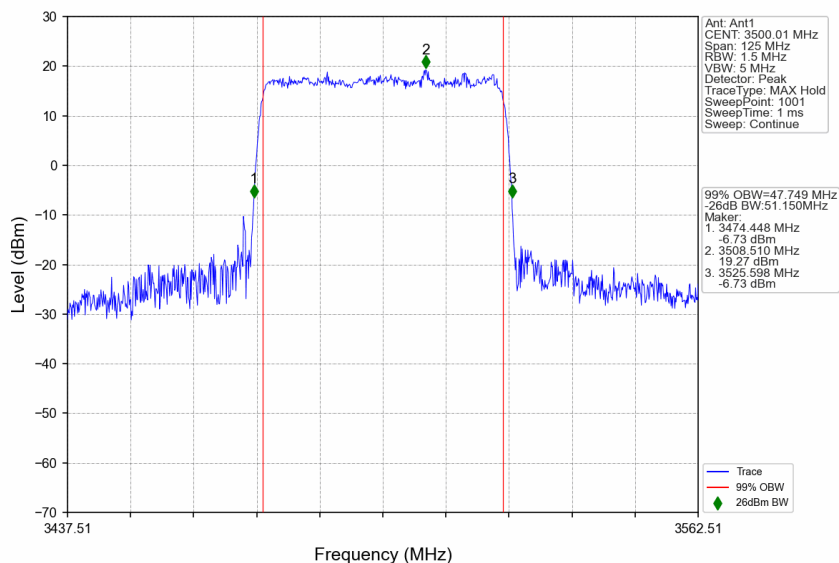
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n77d_30kHz_SISO_NTNV_50MHz_CP-OFDM_16_QAM_3475.02MHz_Outer_Full



n77d_30kHz_SISO_NTNV_50MHz_CP-OFDM_16_QAM_3500.01MHz_Outer_Full



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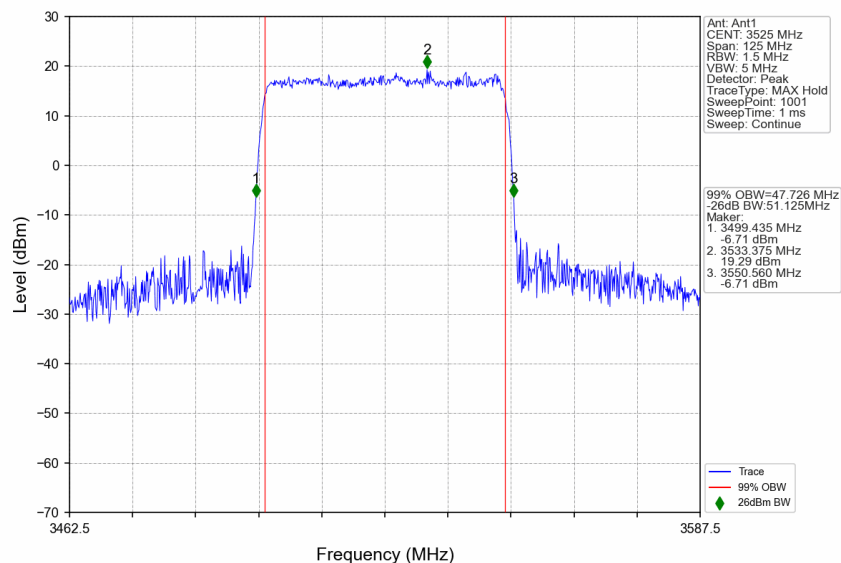
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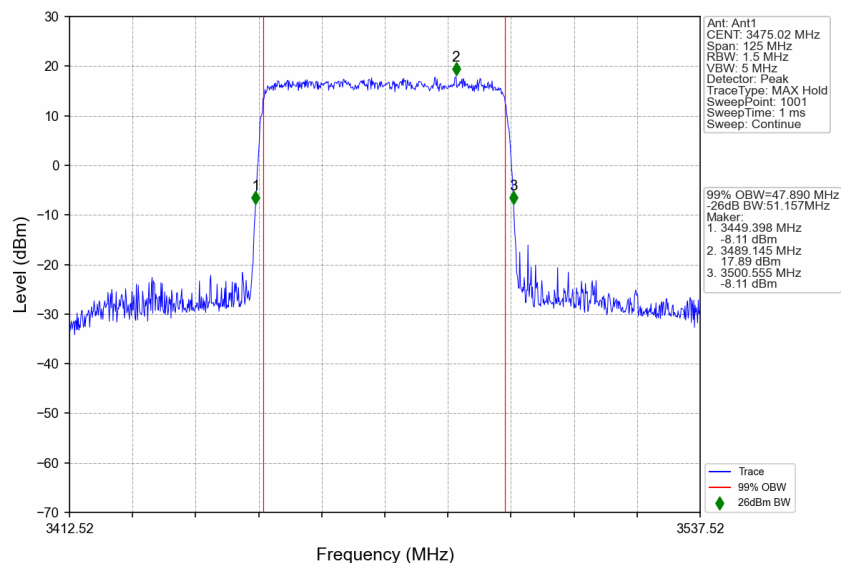
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n77d_30kHz_SISO_NTNV_50MHz_CP-OFDM_16 QAM_3525MHz_Outer_Full



n77d_30kHz_SISO_NTNV_50MHz_CP-OFDM_64 QAM_3475.02MHz_Outer_Full



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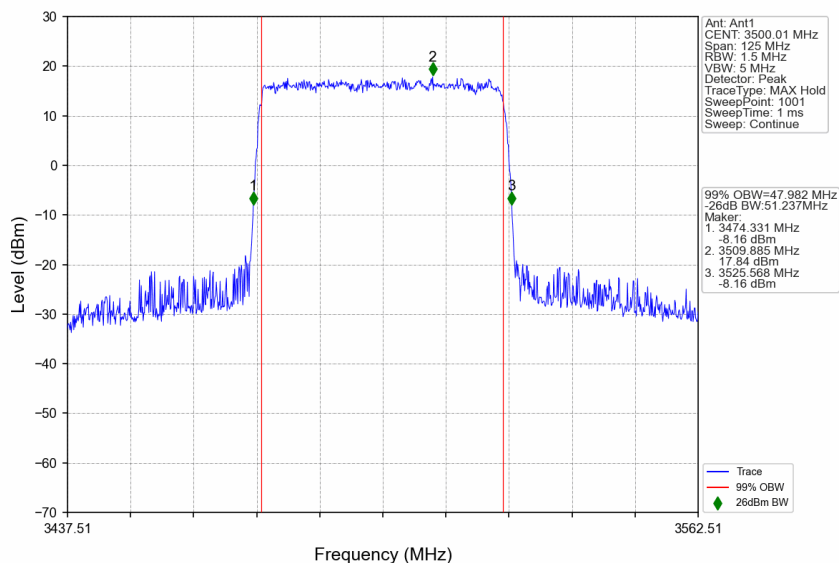
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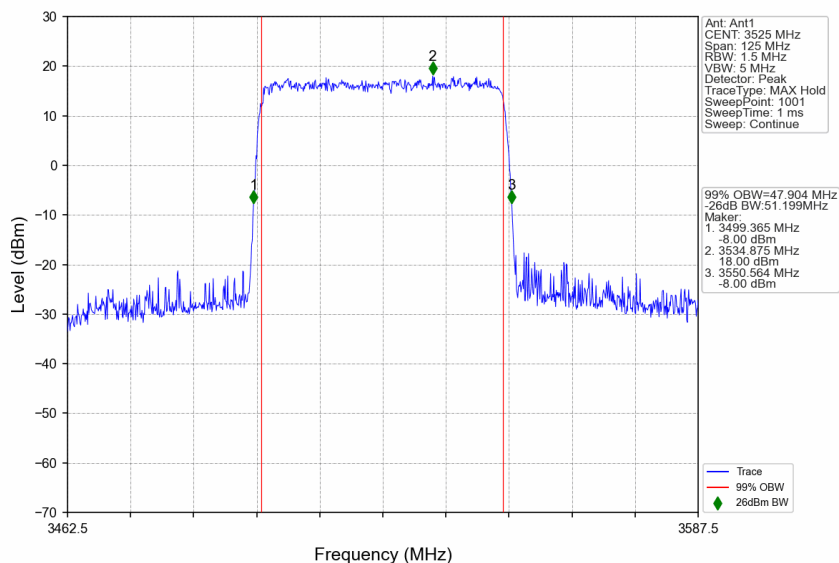
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n77d_30kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM_3525MHz_Outer_Full



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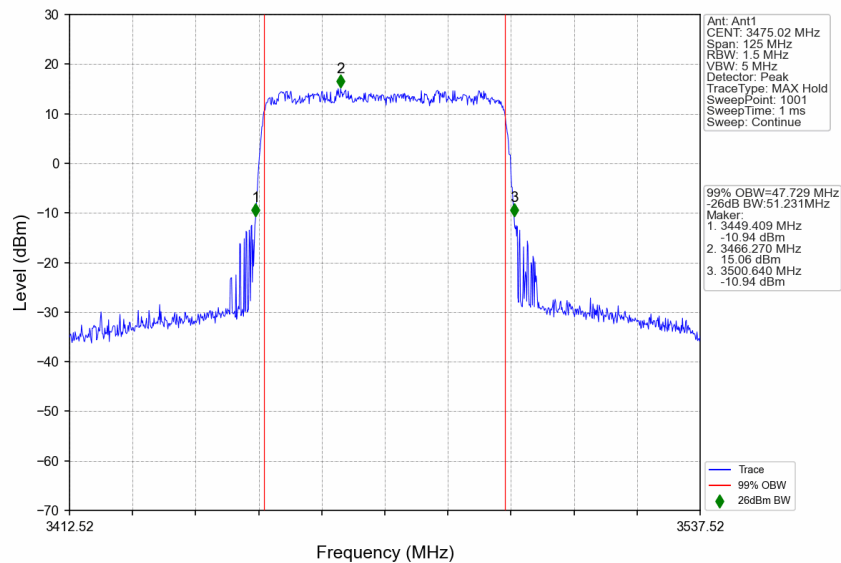
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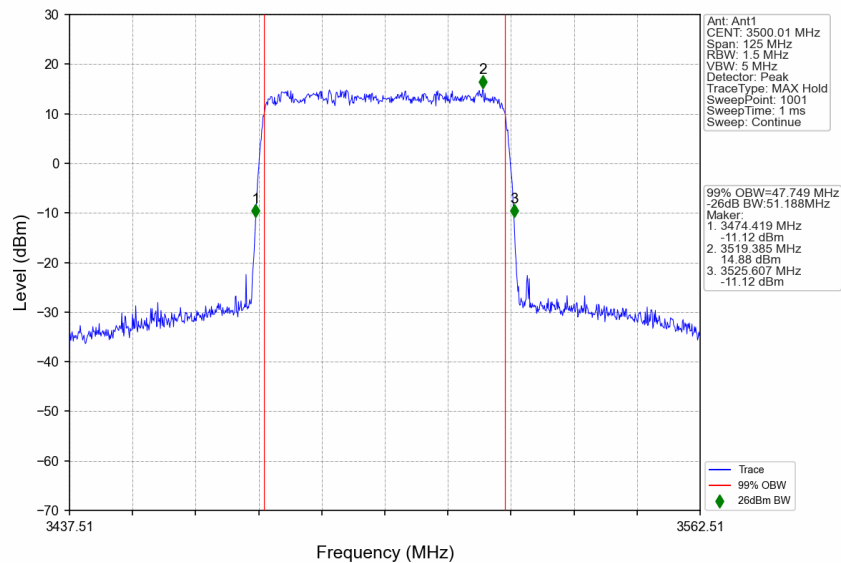
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n77d_30kHz_SISO_NTNV_50MHz_CP-OFDM_256_QAM_3475.02MHz_Outer_Full



n77d_30kHz_SISO_NTNV_50MHz_CP-OFDM_256_QAM_3500.01MHz_Outer_Full



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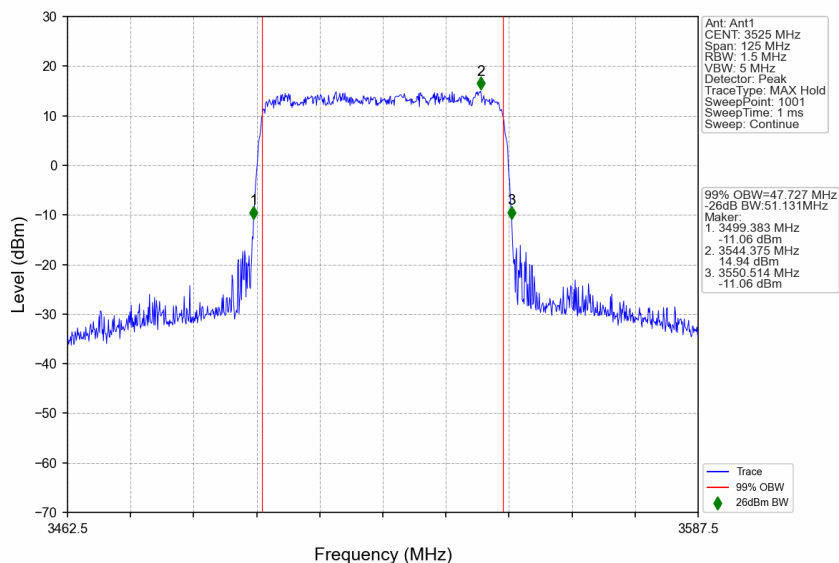
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n77d_30kHz_SISO_NTNV_50MHz_CP-OFDM 256 QAM_3525MHz_Outer_Full



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4.15 30k_SISO_60MHz_NTNV

4.15.1 Test Result

5G NR n77d 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	3480	Outer Full	58.40	62.23	/	Pass
	3500.01	Outer Full	58.41	62.19	/	Pass
	3519.99	Outer Full	58.41	62.09	/	Pass
DFT-s-OFDM QPSK	3480	Outer Full	58.32	62.35	/	Pass
	3500.01	Outer Full	58.29	62.32	/	Pass
	3519.99	Outer Full	58.34	62.28	/	Pass
DFT-s-OFDM 16 QAM	3480	Outer Full	58.17	62.22	/	Pass
	3500.01	Outer Full	58.31	62.20	/	Pass
	3519.99	Outer Full	58.31	62.23	/	Pass
DFT-s-OFDM 64 QAM	3480	Outer Full	58.34	62.29	/	Pass
	3500.01	Outer Full	58.42	62.28	/	Pass
	3519.99	Outer Full	58.28	62.25	/	Pass
DFT-s-OFDM 256 QAM	3480	Outer Full	58.30	62.15	/	Pass
	3500.01	Outer Full	58.23	62.18	/	Pass
	3519.99	Outer Full	58.31	62.13	/	Pass
CP-OFDM QPSK	3480	Outer Full	58.08	62.28	/	Pass
	3500.01	Outer Full	58.10	62.35	/	Pass
	3519.99	Outer Full	58.12	62.22	/	Pass
CP-OFDM 16 QAM	3480	Outer Full	58.21	62.09	/	Pass
	3500.01	Outer Full	58.23	62.22	/	Pass
	3519.99	Outer Full	58.26	62.18	/	Pass
CP-OFDM 64 QAM	3480	Outer Full	58.29	62.33	/	Pass
	3500.01	Outer Full	58.33	62.27	/	Pass
	3519.99	Outer Full	58.33	62.33	/	Pass
CP-OFDM 256 QAM	3480	Outer Full	58.15	62.23	/	Pass
	3500.01	Outer Full	58.27	62.26	/	Pass
	3519.99	Outer Full	58.28	62.26	/	Pass



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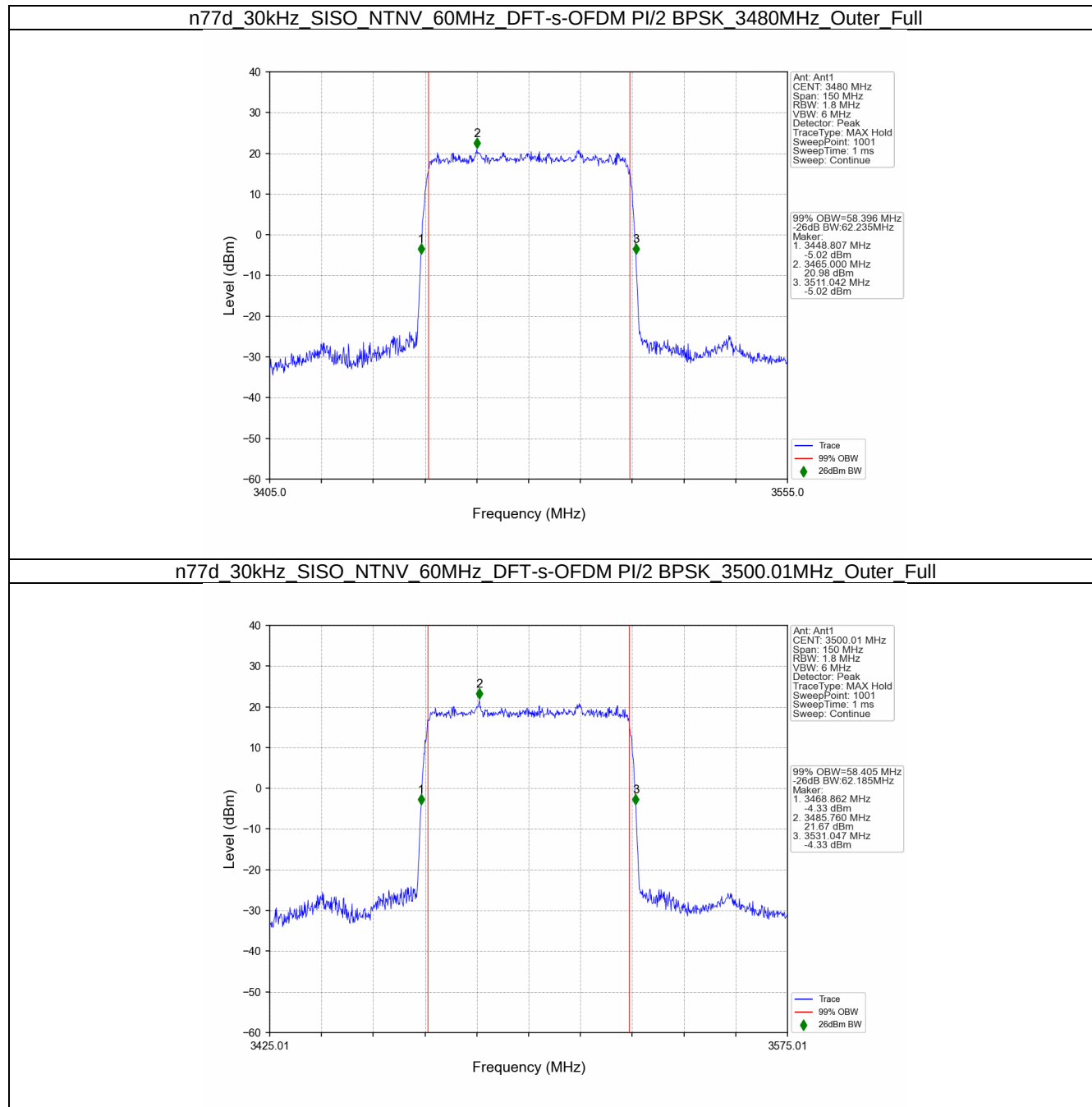
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4.15.2 Test Graph



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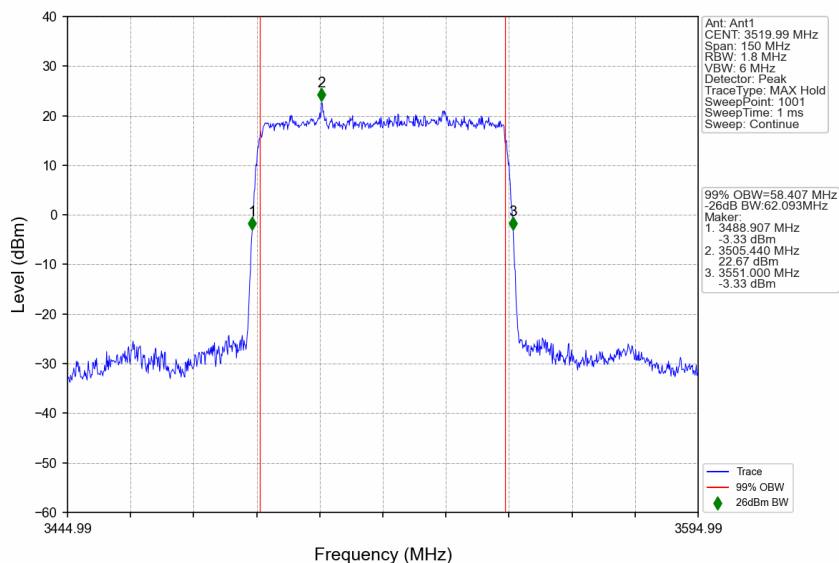
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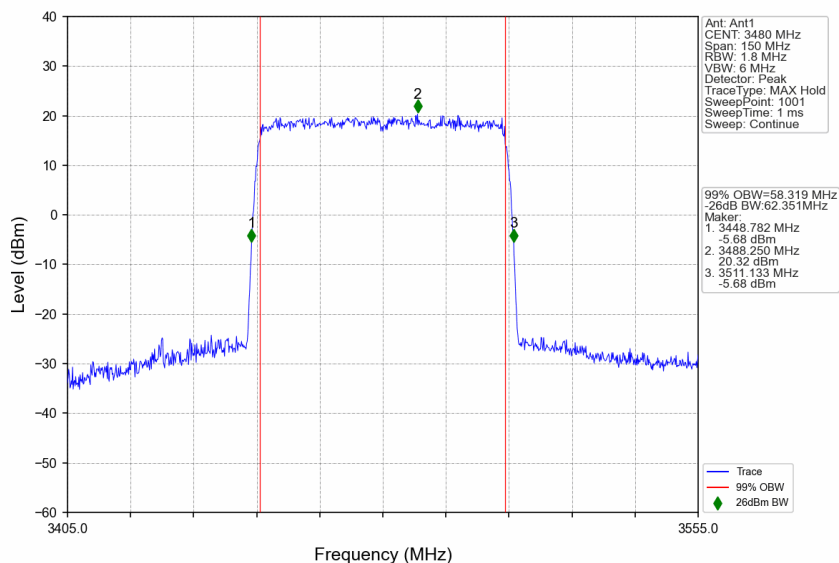
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n77d_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM PI/2 BPSK_3519.99MHz_Outer_Full



n77d_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM QPSK_3480MHz_Outer_Full



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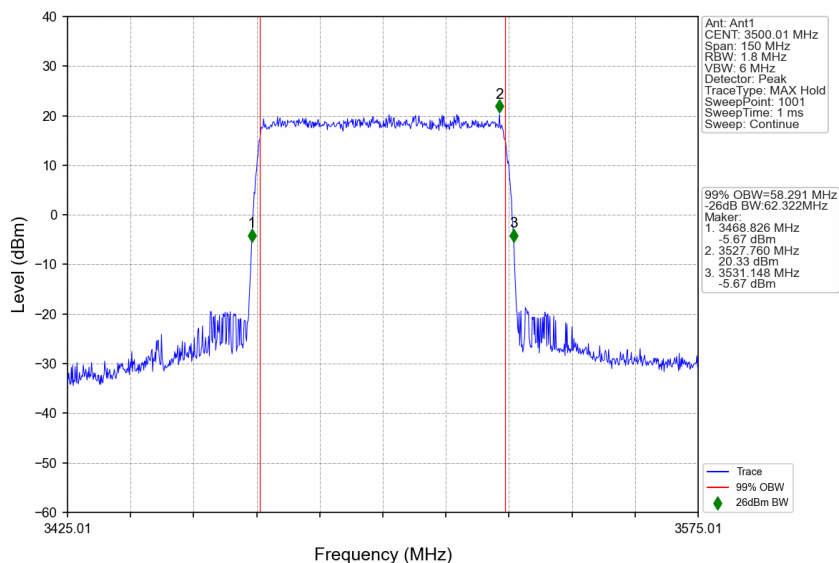
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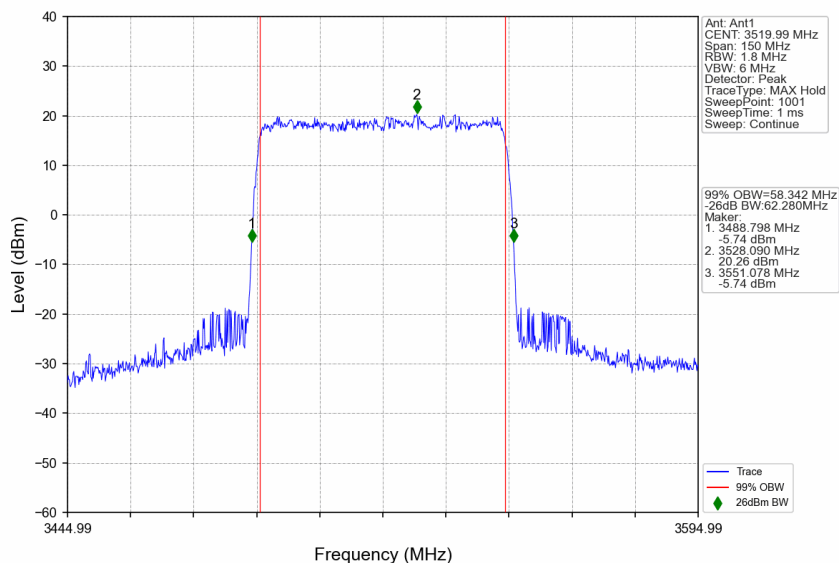
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n77d_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM QPSK_3519.99MHz_Outer_Full



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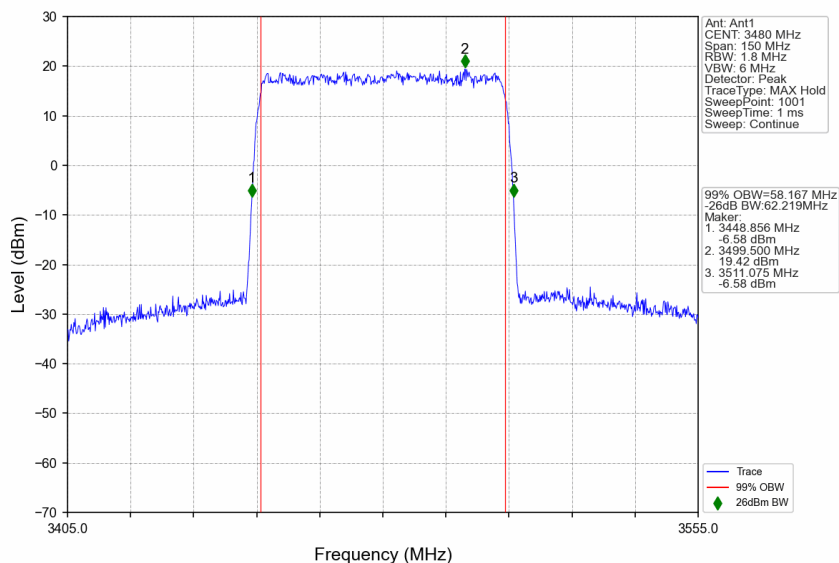
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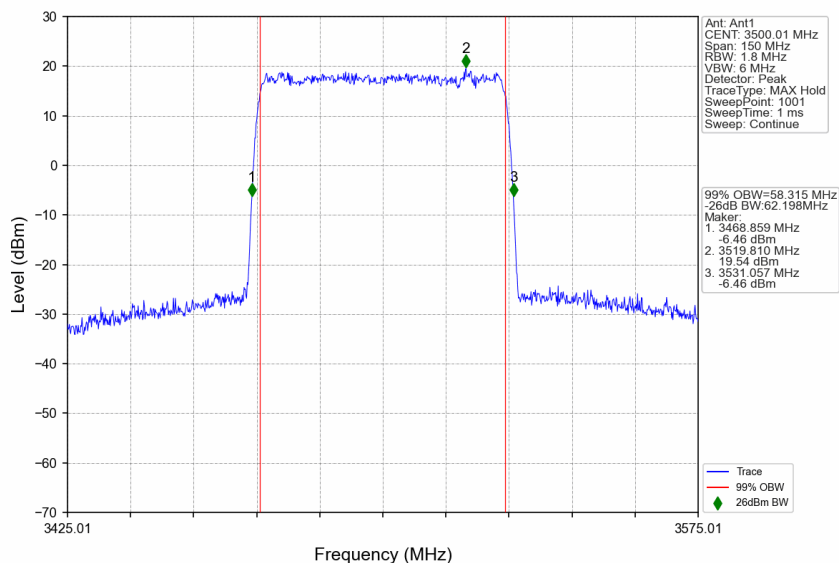
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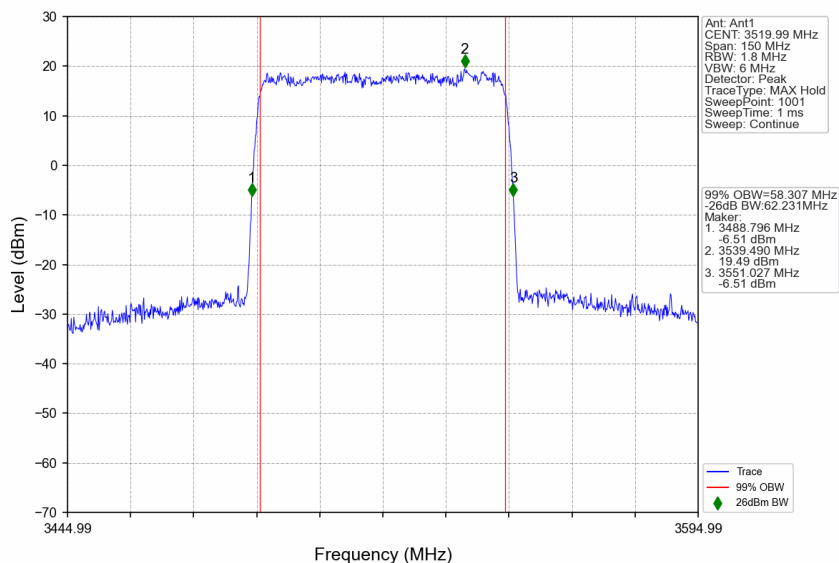
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Report No.: SEWM2311000456RG02

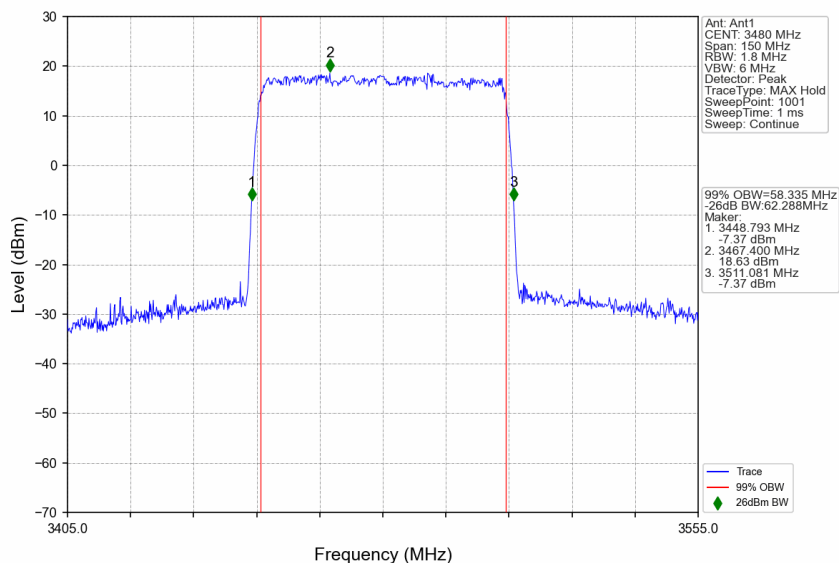
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n77d_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM 16 QAM_3519.99MHz_Outer_Full



n77d_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM 64 QAM_3480MHz_Outer_Full



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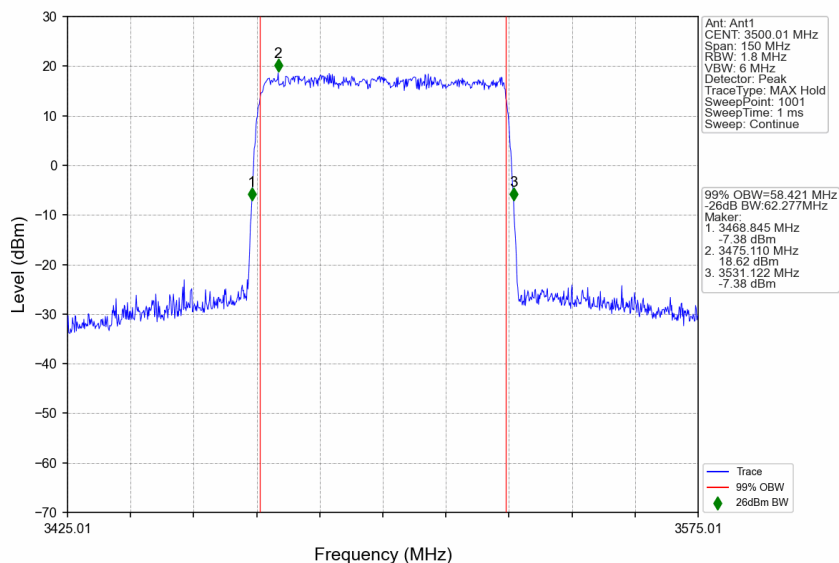
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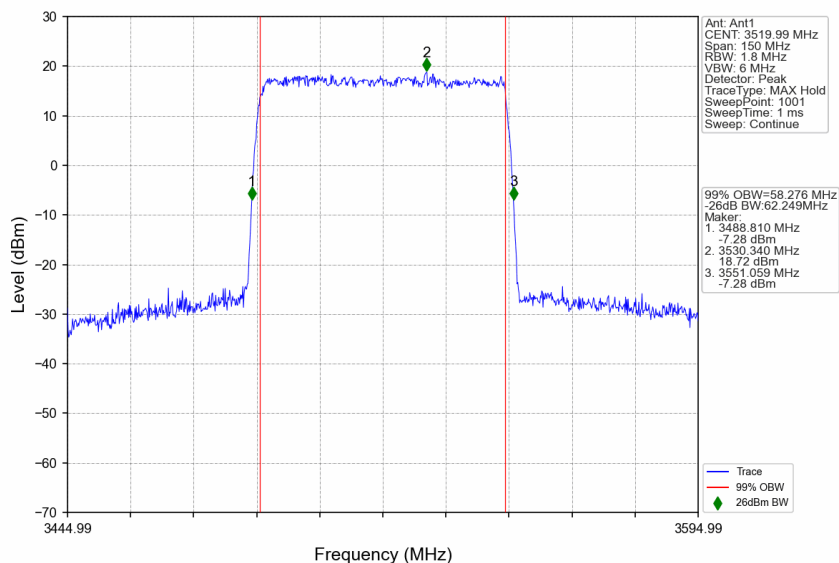
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n77d_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM_64_QAM_3500.01MHz_Outer_Full



n77d_30kHz_SISO_NTNV_60MHz_DFT-s-OFDM_64_QAM_3519.99MHz_Outer_Full



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