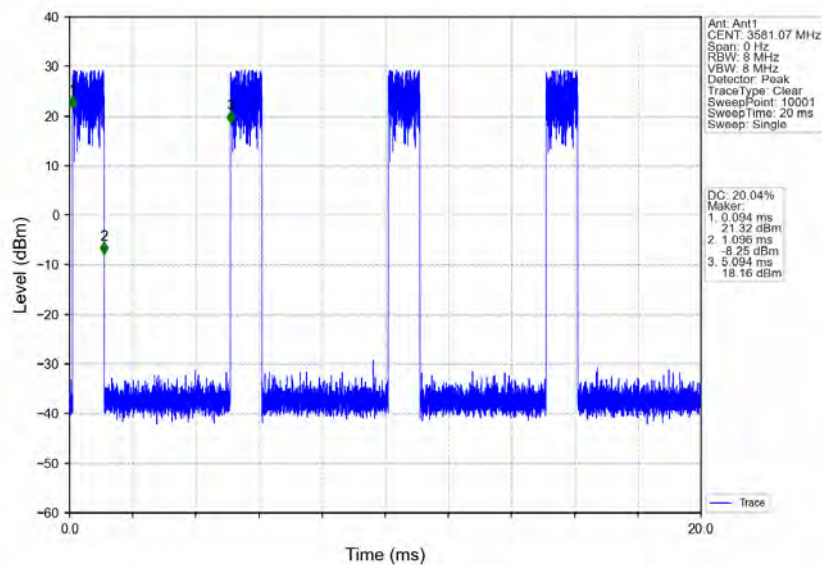
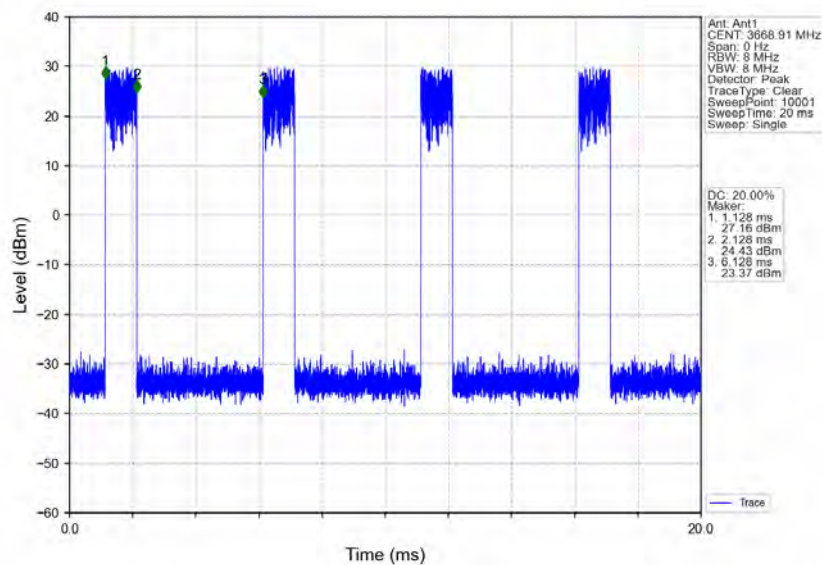


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n78d_30kHz_MIMO_NTNV_90MHz_CP-OFDM_16_QAM_3624.99MHz_Edge_1RB_Right



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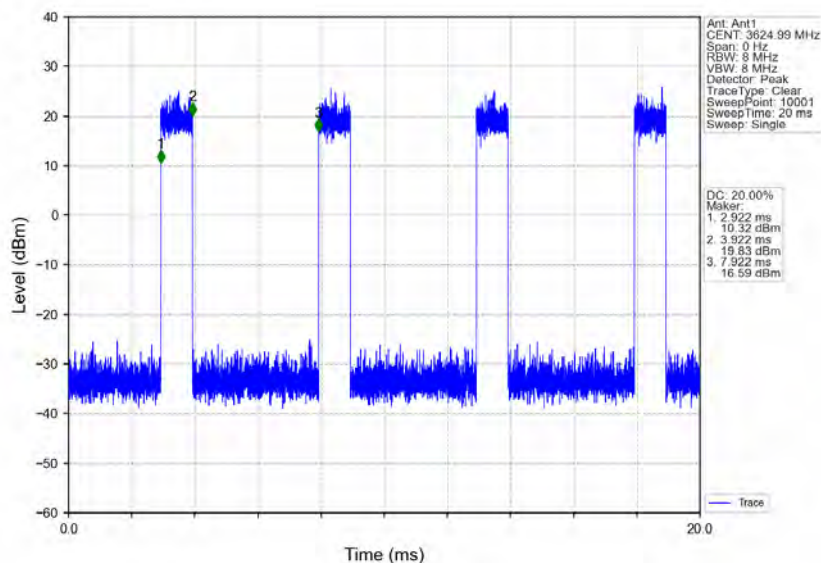
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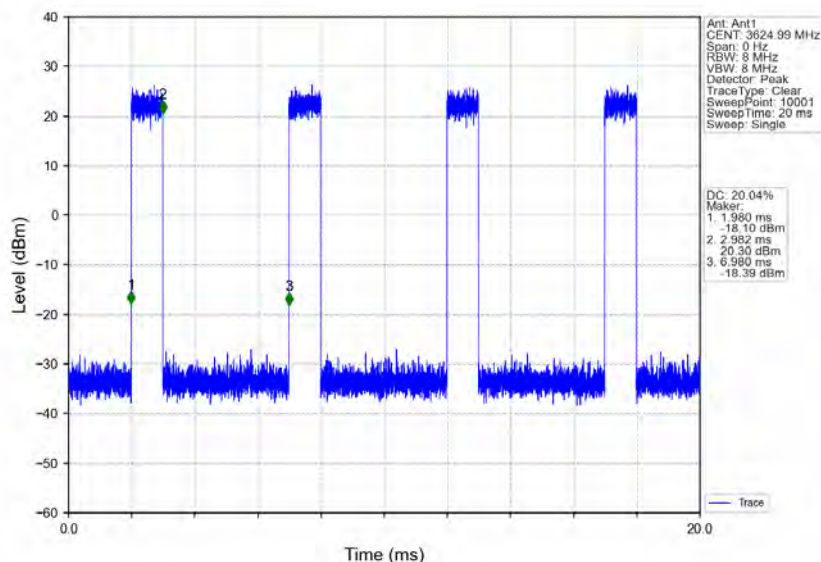
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n78d_30kHz_MIMO_NTNV_90MHz_CP-OFDM_16_QAM_3624.99MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_90MHz_CP-OFDM_16_QAM_3624.99MHz_Inner_Full



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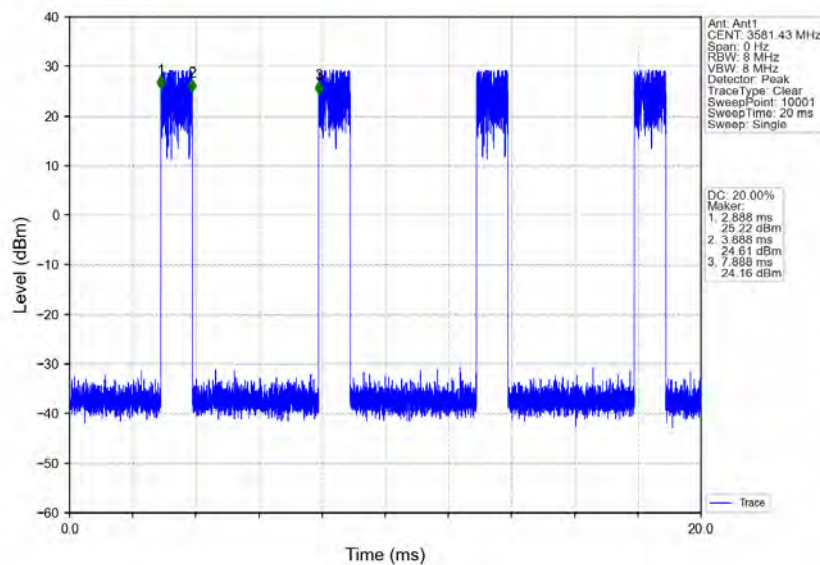
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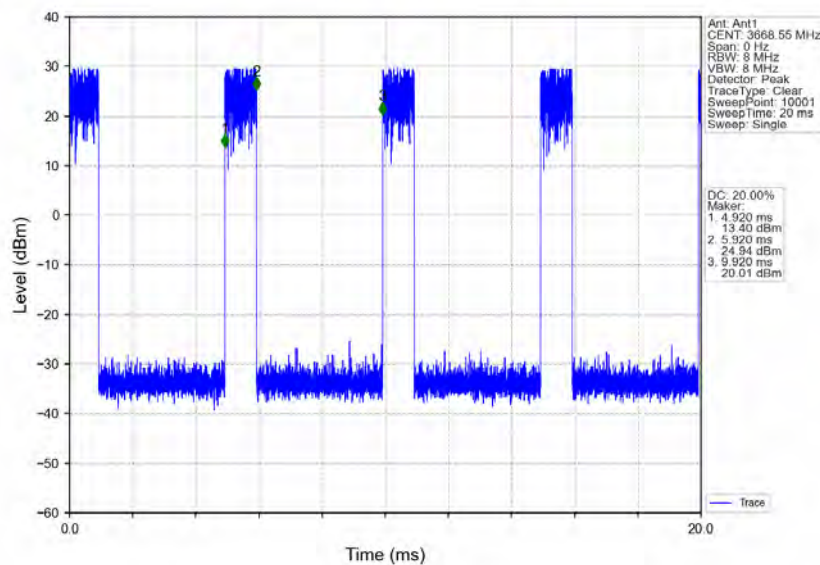
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n78d_30kHz_MIMO_NTNV_90MHz_CP-OFDM_16_QAM_3624.99MHz_Inner_1RB_Left



n78d_30kHz_MIMO_NTNV_90MHz_CP-OFDM_16_QAM_3624.99MHz_Inner_1RB_Right



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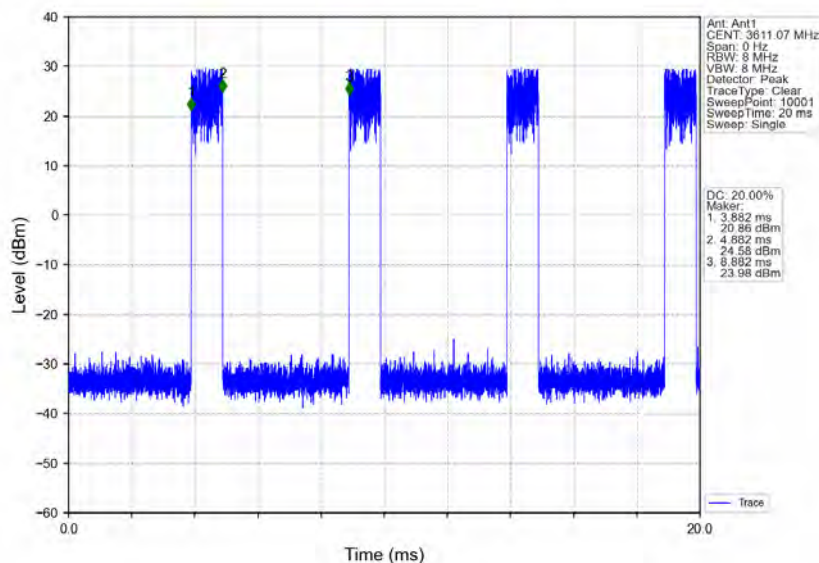
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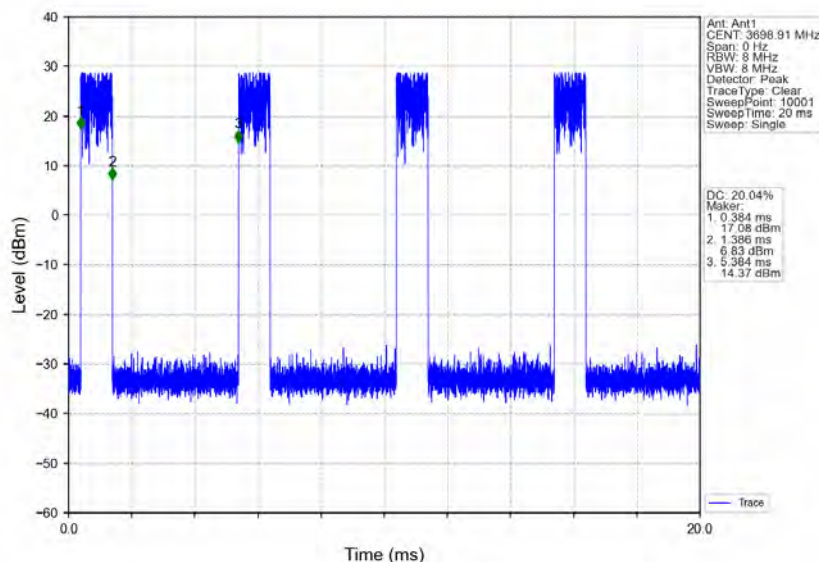
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n78d_30kHz_MIMO_NTNV_90MHz_CP-OFDM 16 QAM_3654.99MHz_Edge_1RB_Left



n78d_30kHz_MIMO_NTNV_90MHz_CP-OFDM 16 QAM_3654.99MHz_Edge_1RB_Right



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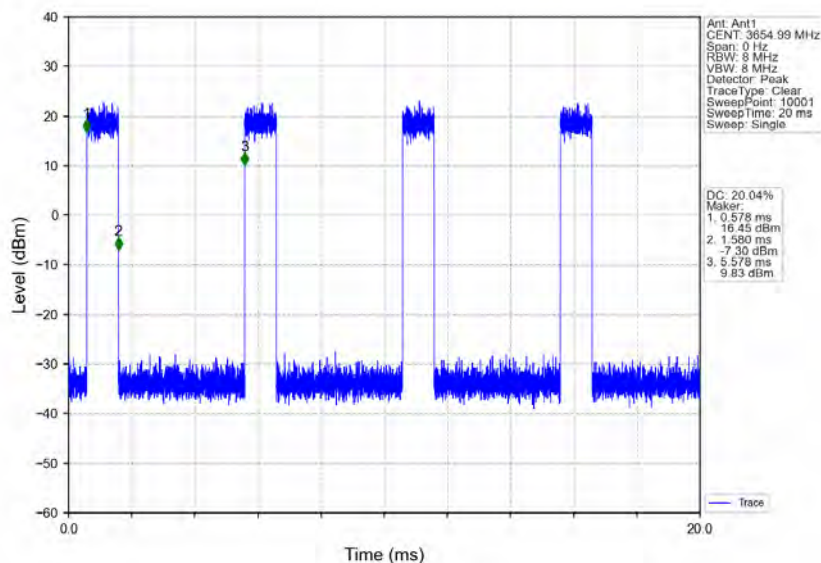
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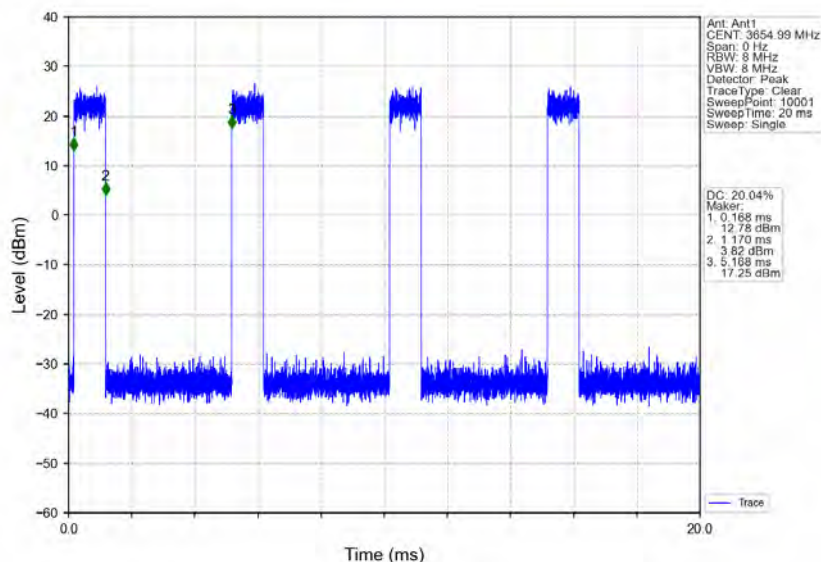
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n78d_30kHz_MIMO_NTNV_90MHz_CP-OFDM_16_QAM_3654.99MHz_Outer_Full



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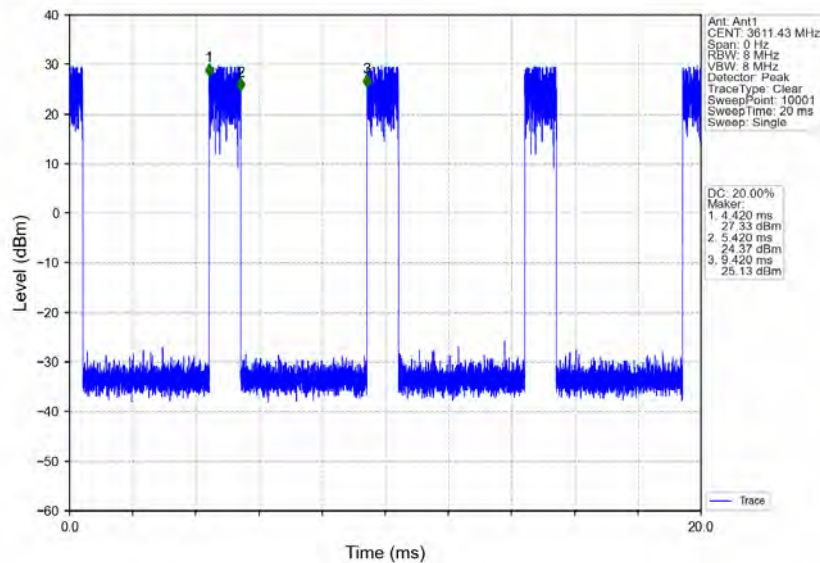
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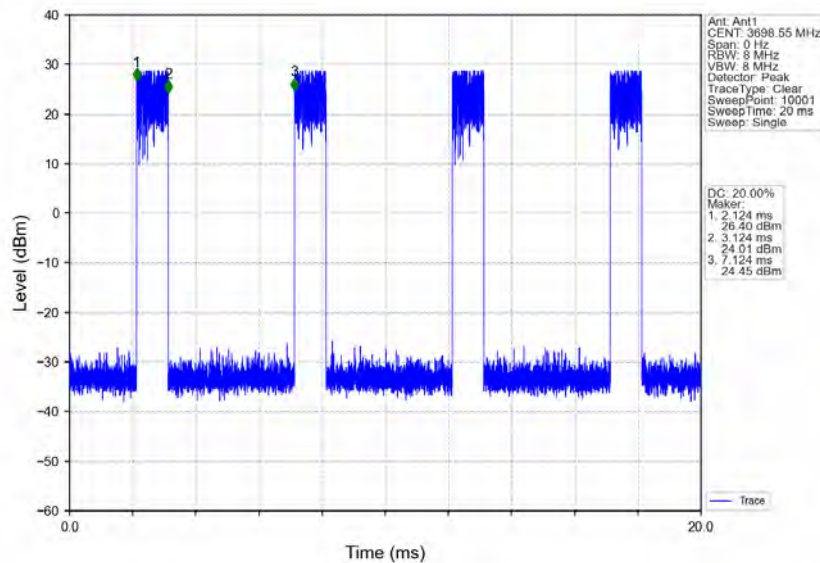
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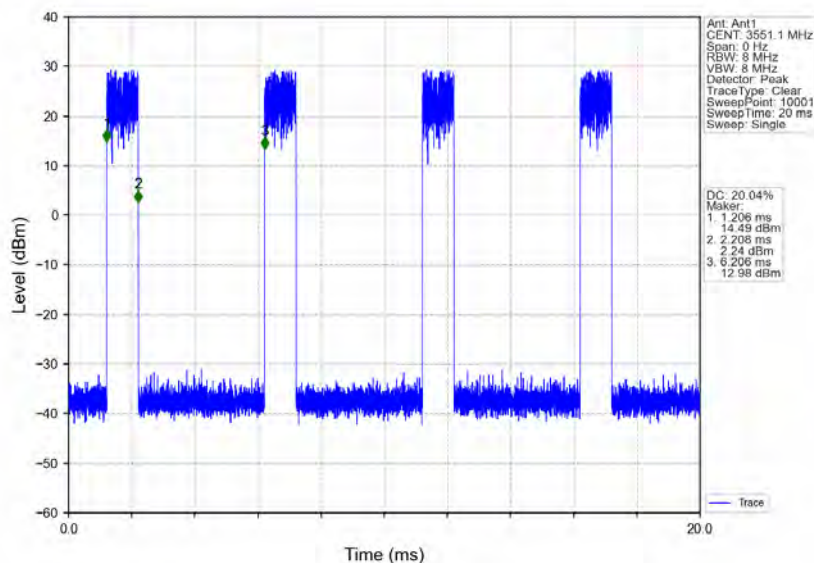
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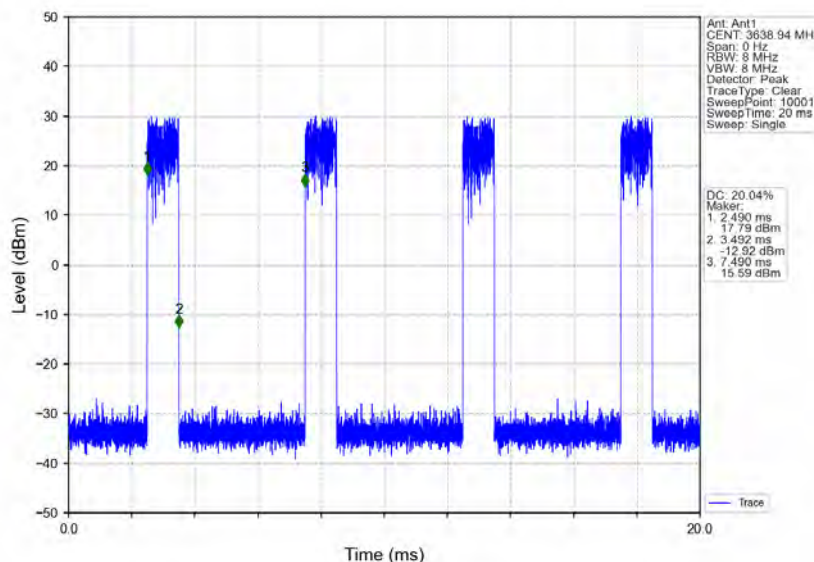
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n78d_30kHz_MIMO_NTNV_90MHz_CP-OFDM 64 QAM_3595.02MHz_Edge_1RB_Left



n78d_30kHz_MIMO_NTNV_90MHz_CP-OFDM 64 QAM_3595.02MHz_Edge_1RB_Right



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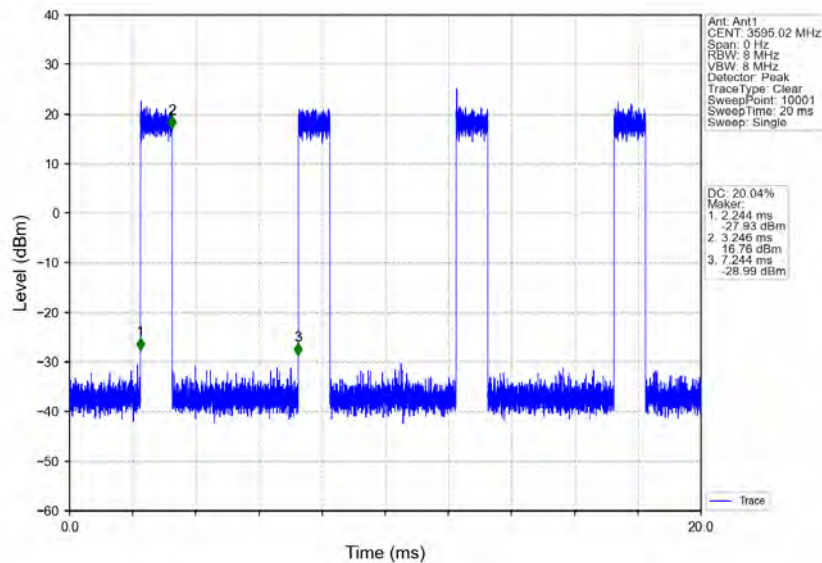
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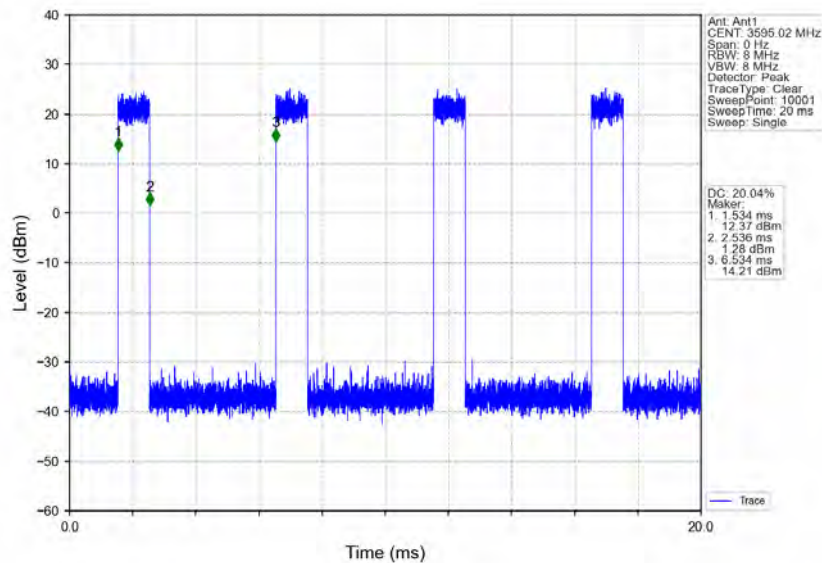
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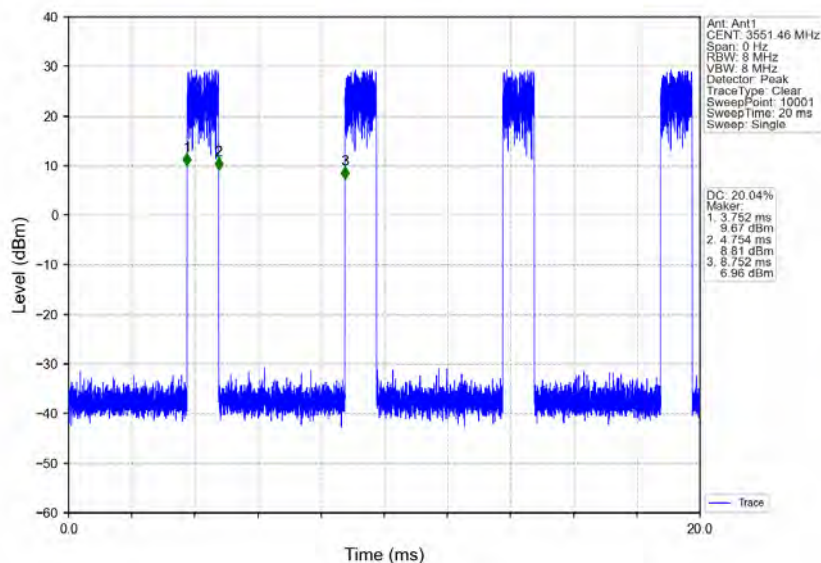
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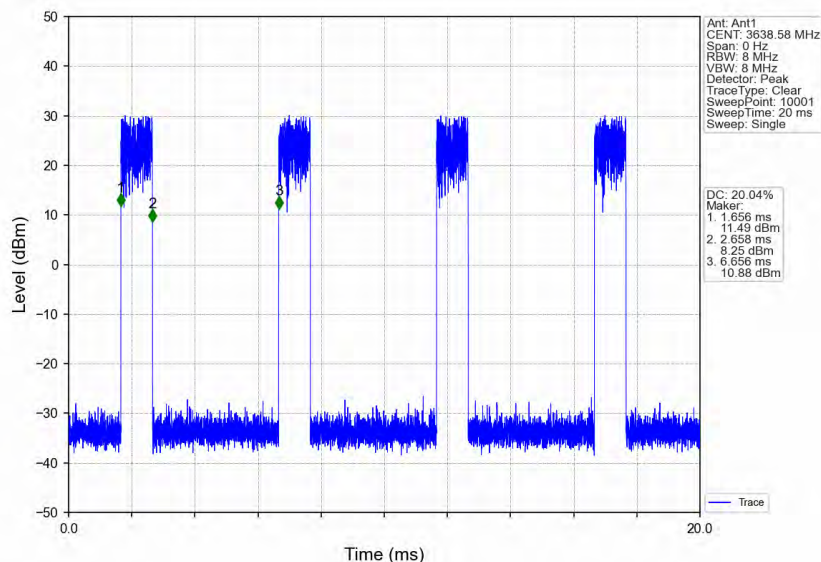
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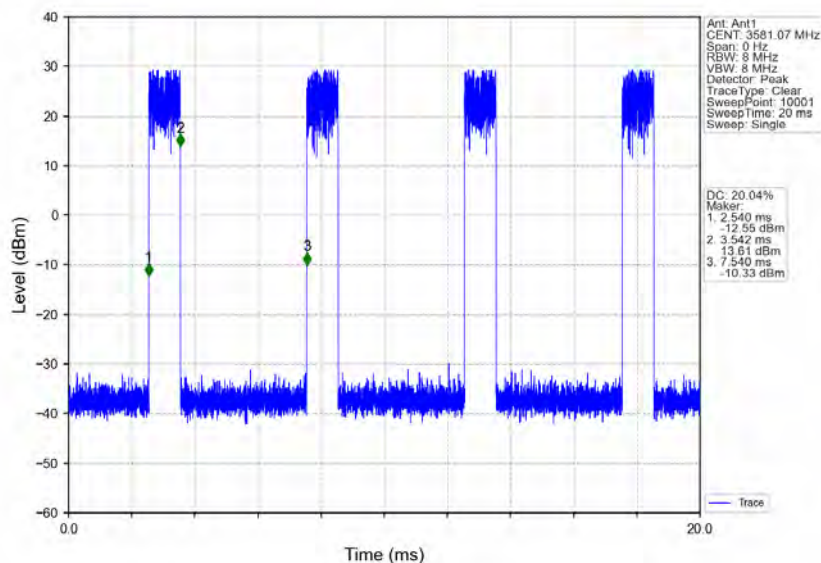
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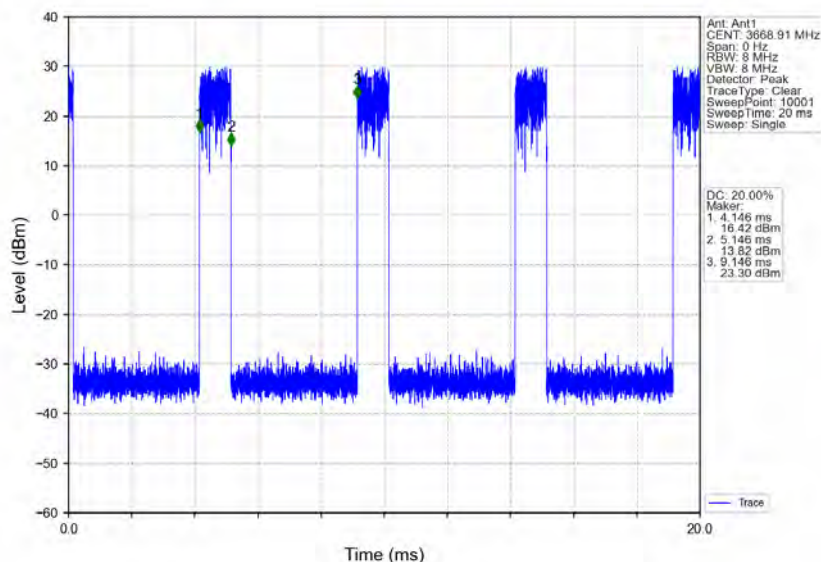
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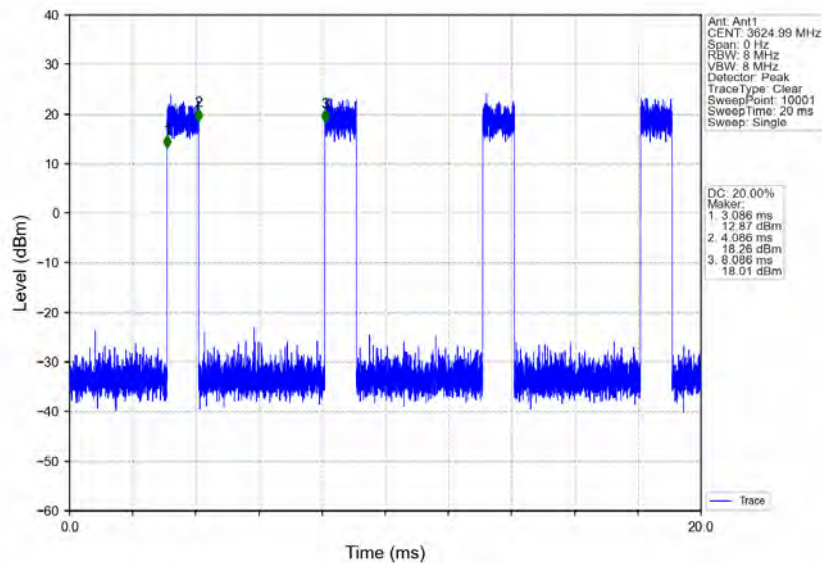
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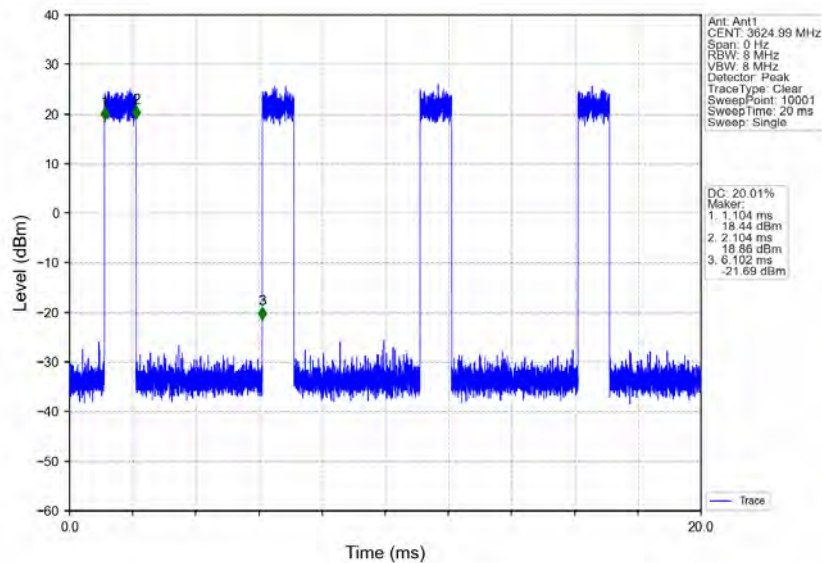
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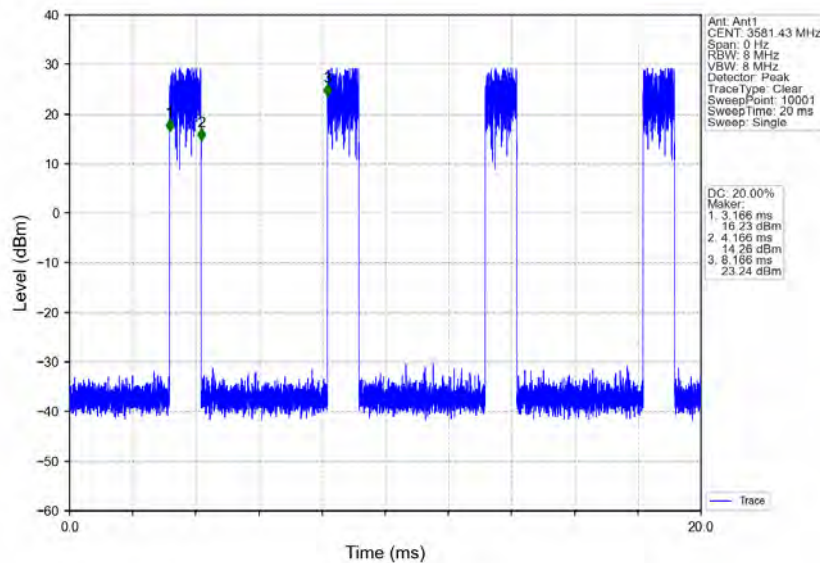
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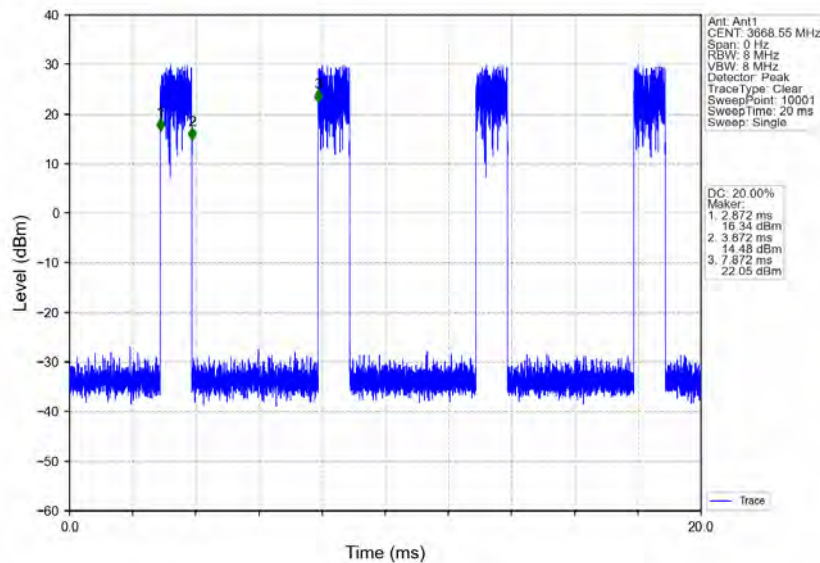
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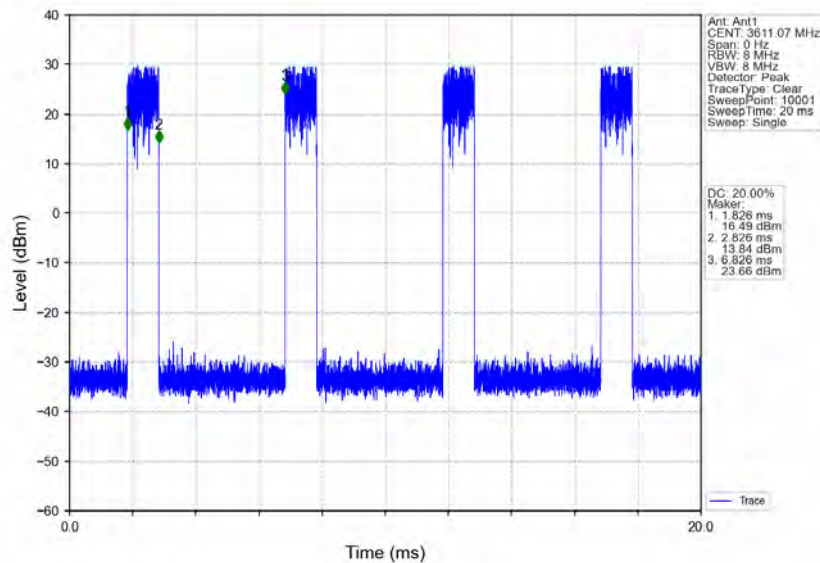
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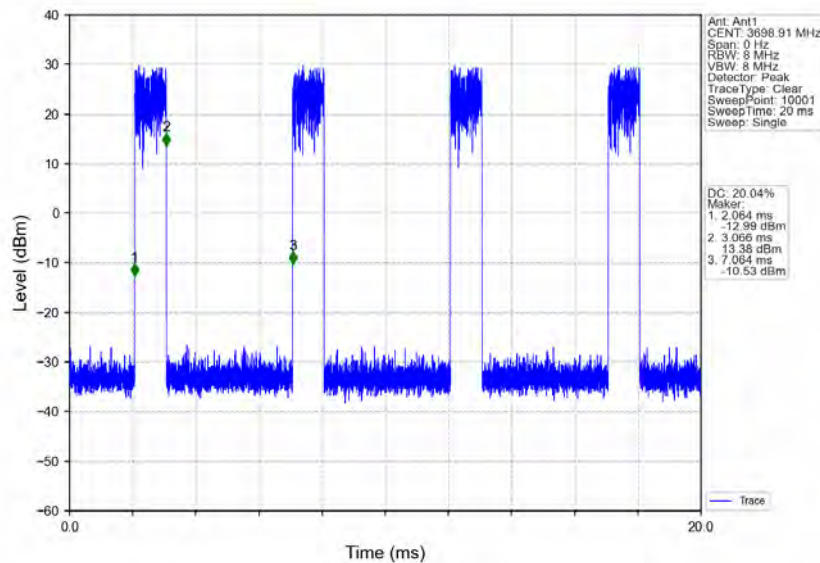
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n78d_30kHz_MIMO_NTNV_90MHz_CP-OFDM 64 QAM_3654.99MHz_Edge_1RB_Left



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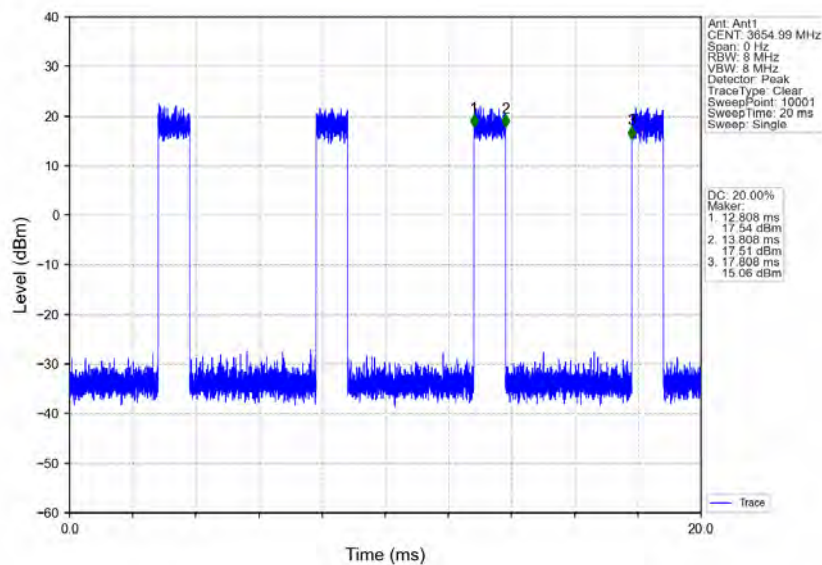
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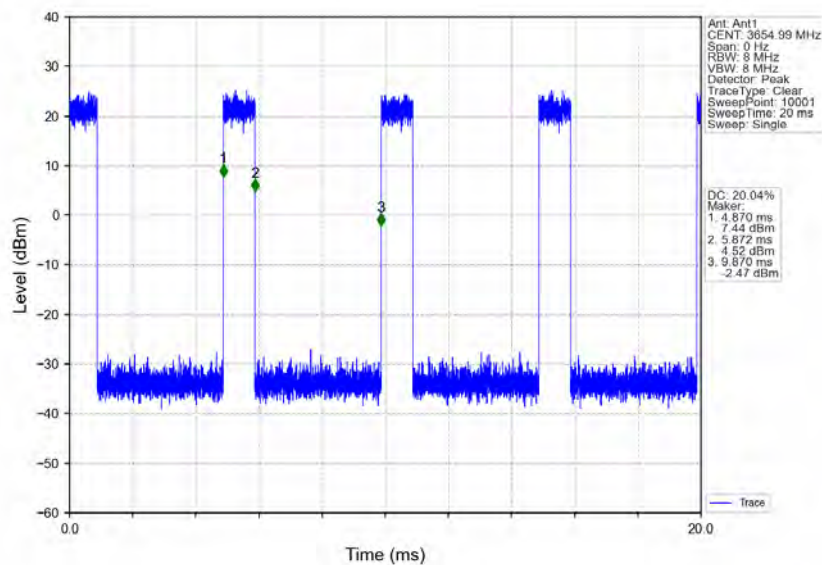
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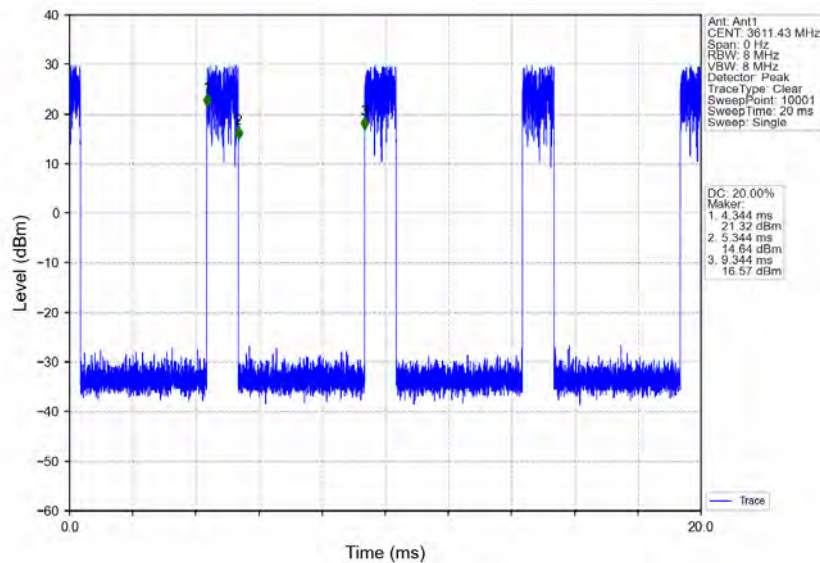
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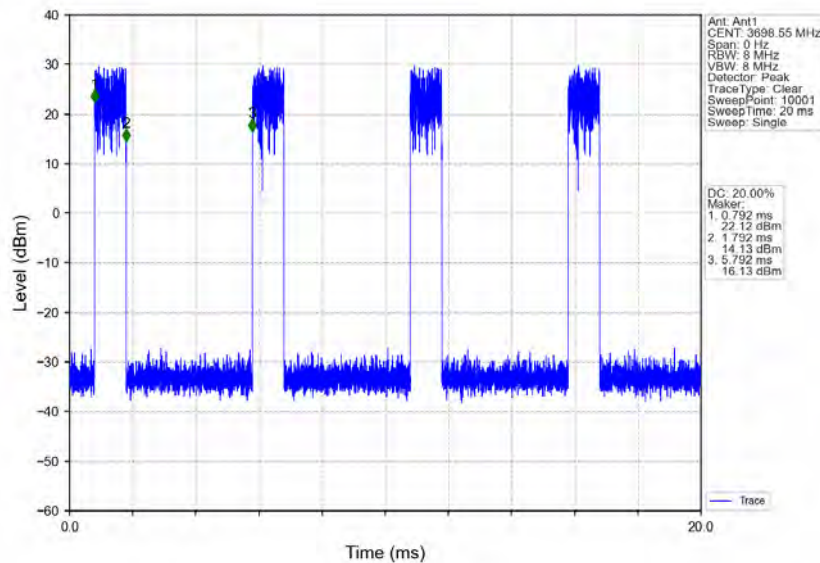
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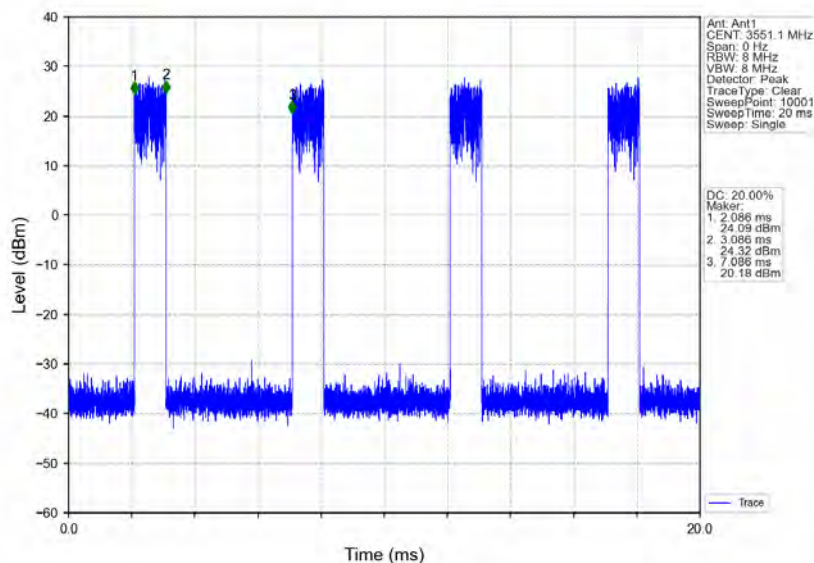
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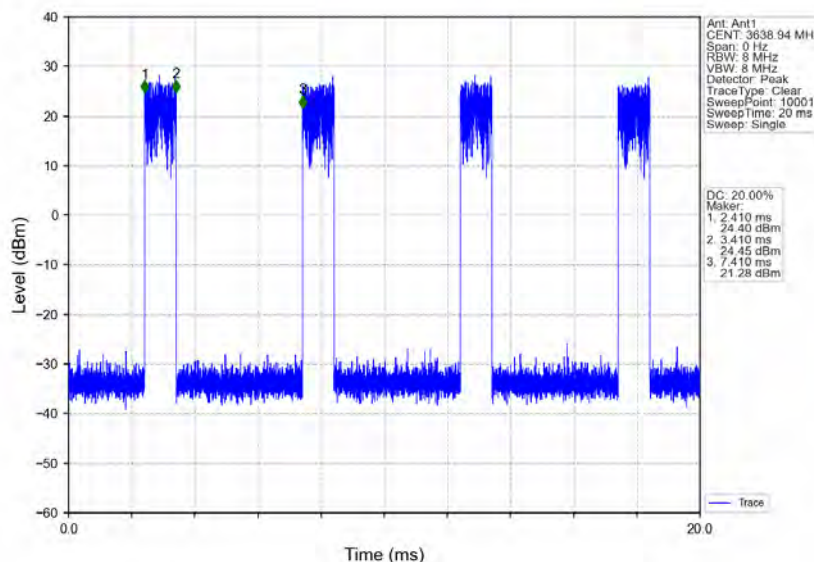
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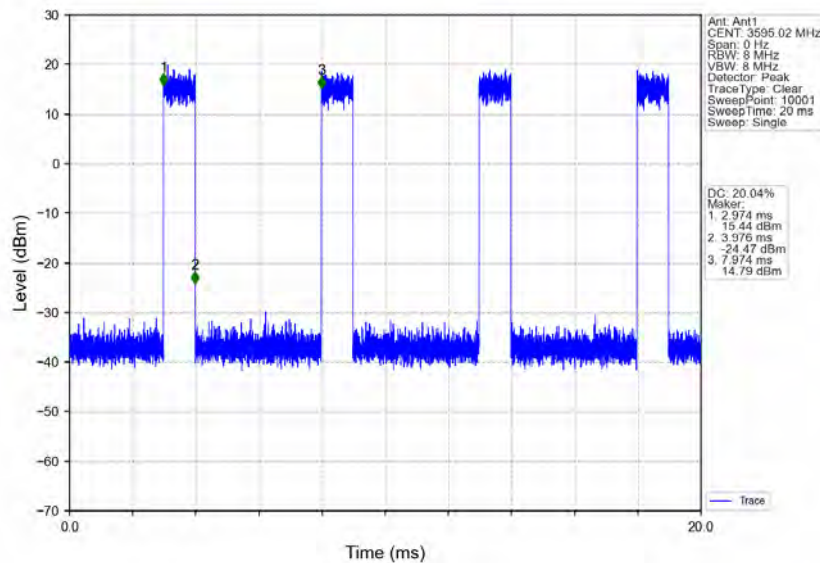
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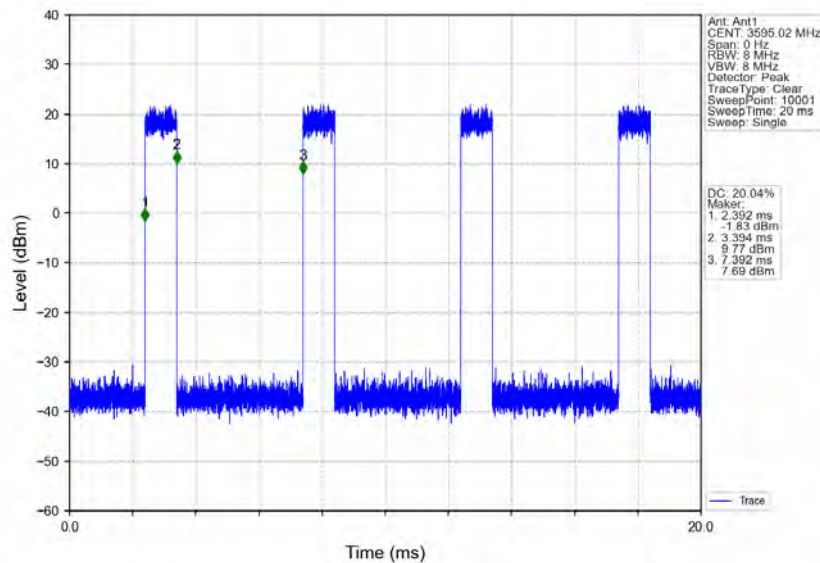
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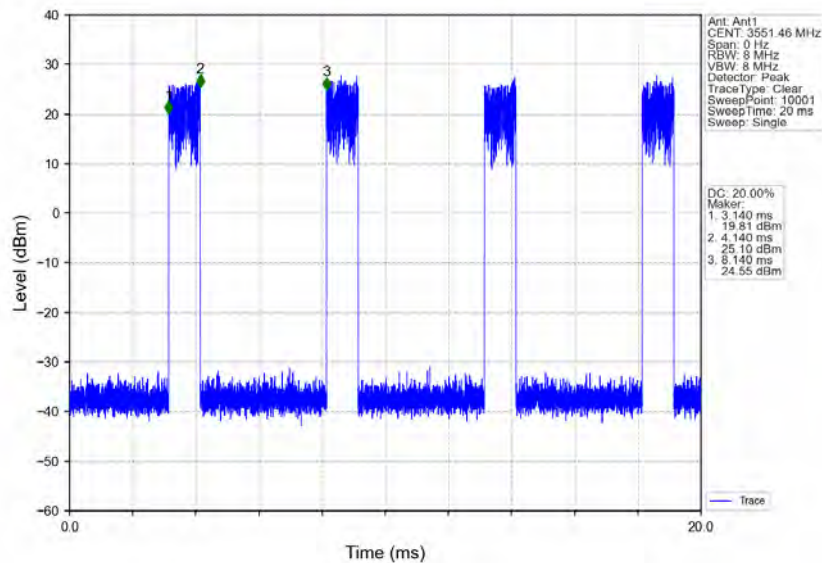
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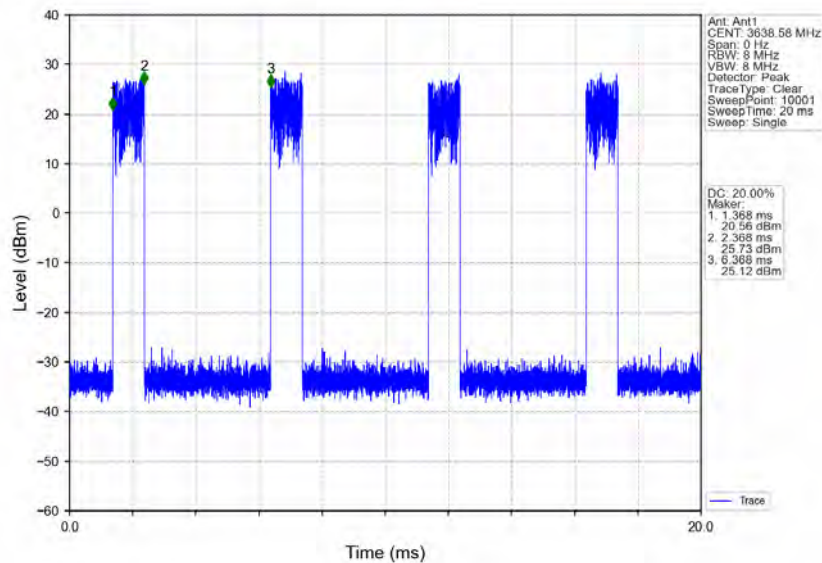
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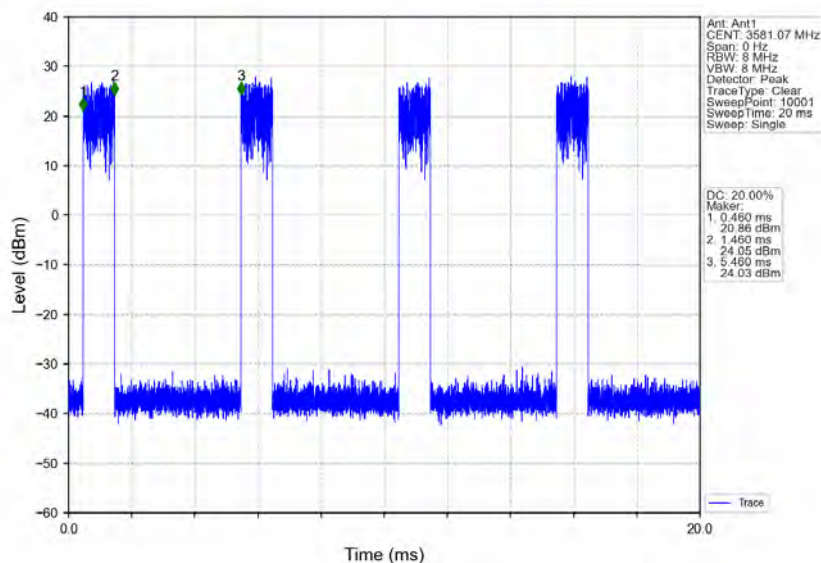
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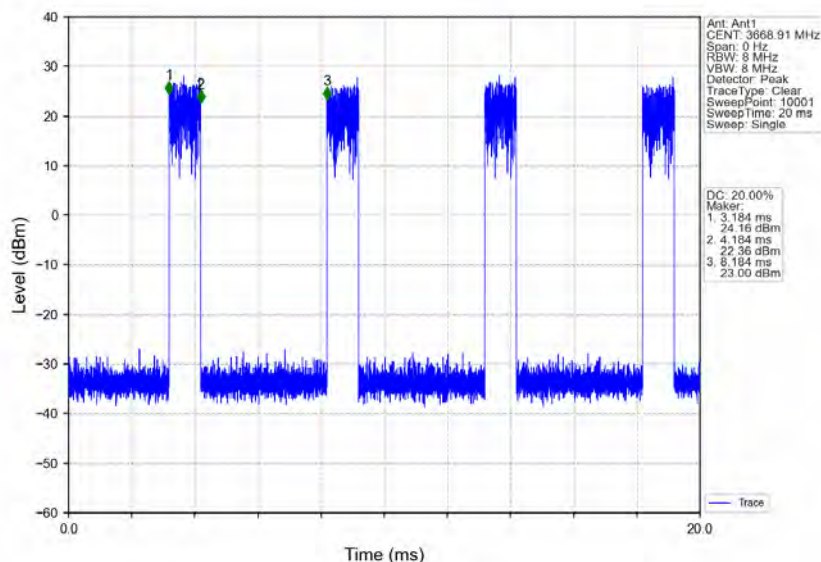
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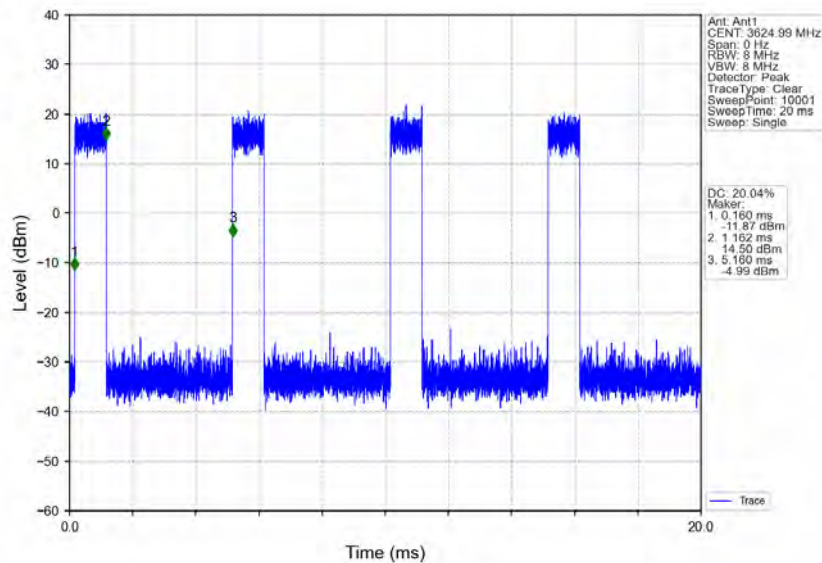
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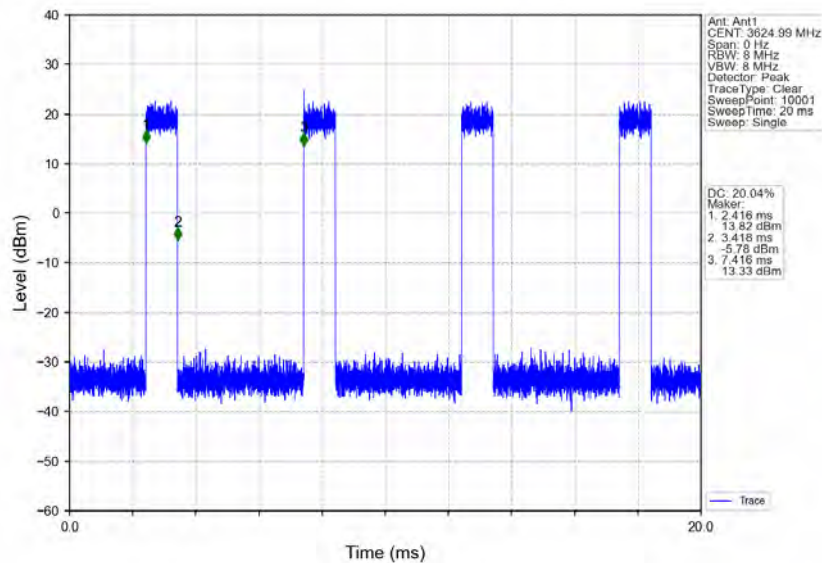
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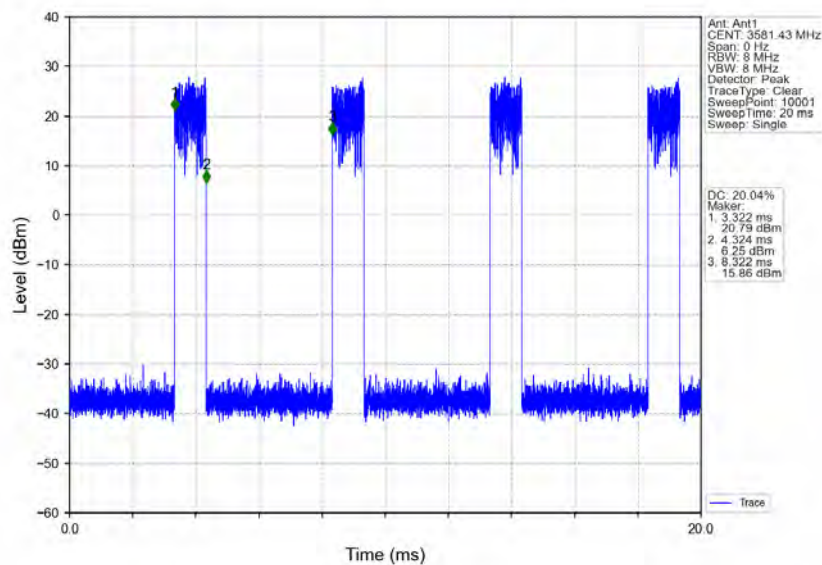
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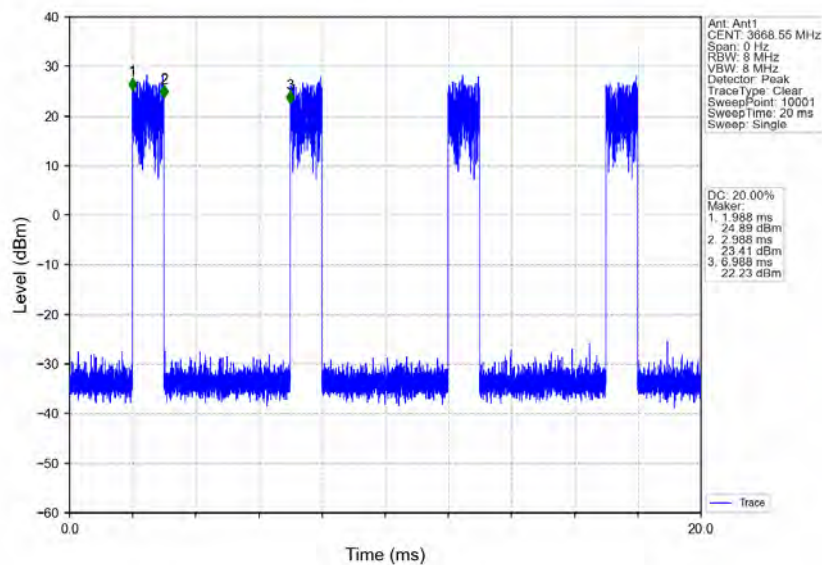
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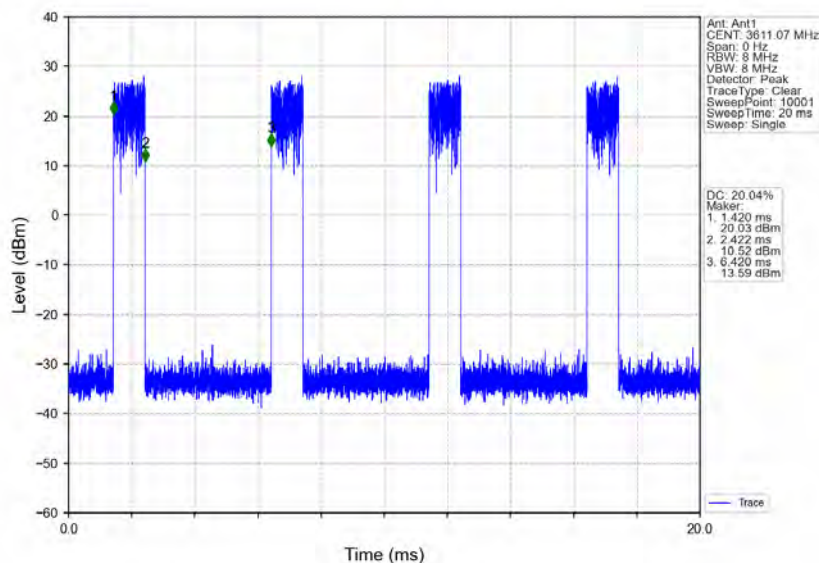
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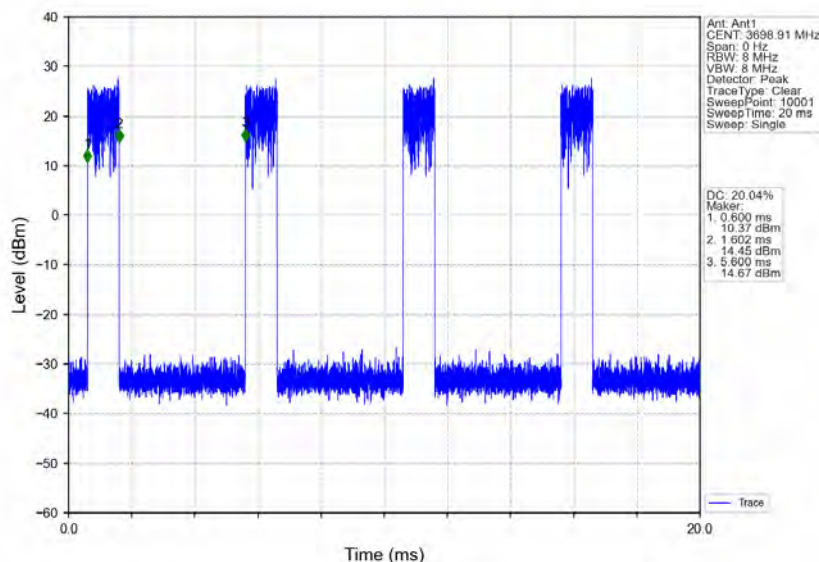
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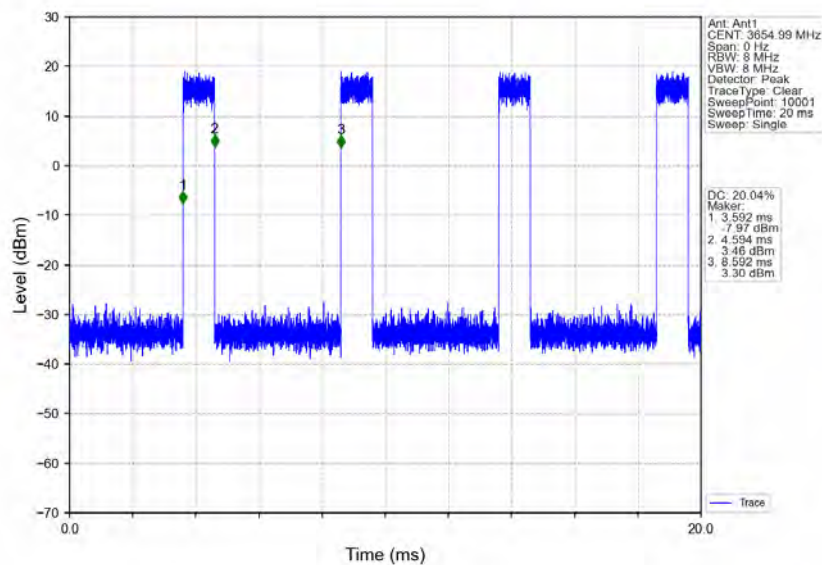
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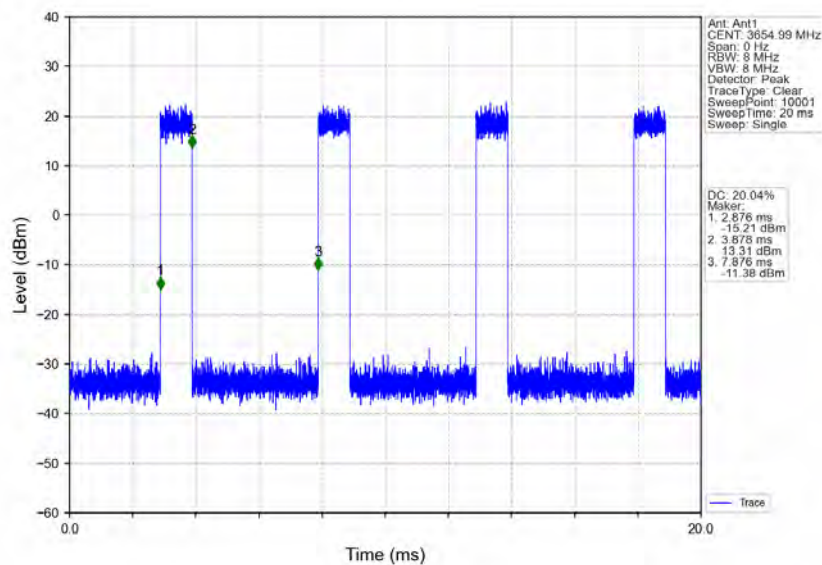
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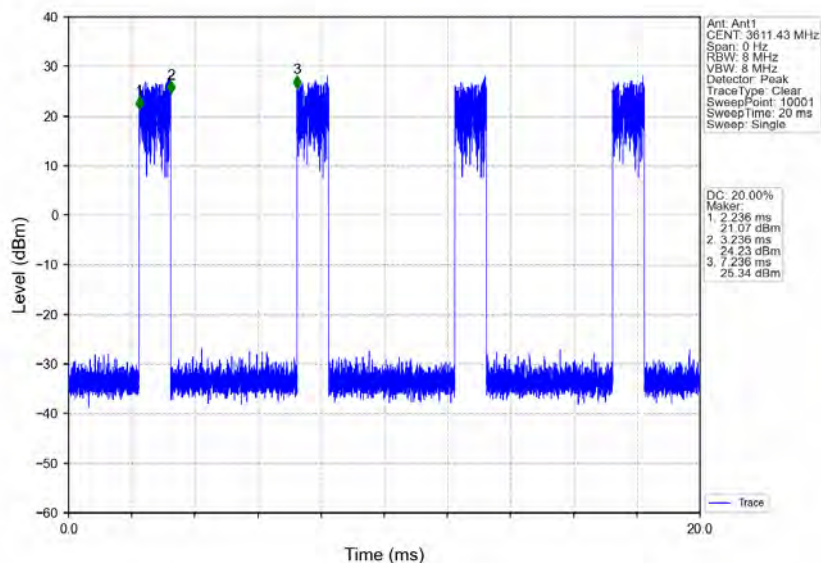
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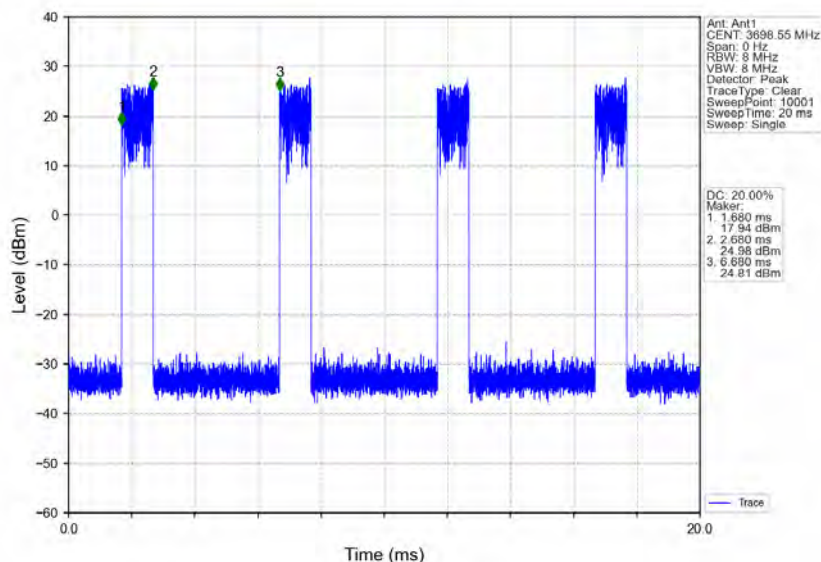
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n78d_30kHz_MIMO_NTNV_90MHz_CP-OFDM_256_QAM_3654.99MHz_Inner_1RB_Left



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1.11 30k_MIMO_100MHz_NTNV

1.11.1 Test Result

5G NR n78d SCS=30kHz MIMO 100MHz NTNV							
Modulation	Frequency (MHz)	RB Allocation	T _{on} (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
CP-OFDM QPSK	3600	Edge 1RB Left	1.002	5.000	20.04	6.98	0.00
		Edge 1RB Right	1.000	5.000	20.00	6.99	0.00
		Outer Full	1.002	5.000	20.04	6.98	0.00
		Inner Full	1.000	5.000	20.00	6.99	0.04
		Inner 1RB Left	1.000	5.000	20.00	6.99	0.00
		Inner 1RB Right	1.000	5.000	20.00	6.99	0.00
	3624.99	Edge 1RB Left	1.002	5.000	20.04	6.98	0.00
		Edge 1RB Right	1.002	5.000	20.04	6.98	0.00
		Outer Full	1.000	4.998	20.01	6.99	0.02
		Inner Full	1.000	5.000	20.00	6.99	0.04
		Inner 1RB Left	1.002	5.000	20.04	6.98	0.00
		Inner 1RB Right	1.002	5.000	20.04	6.98	0.00
	3649.98	Edge 1RB Left	1.000	5.000	20.00	6.99	0.00
		Edge 1RB Right	1.000	5.000	20.00	6.99	0.00
		Outer Full	1.000	5.000	20.00	6.99	0.03
		Inner Full	1.002	5.002	20.03	6.98	0.01
		Inner 1RB Left	1.002	5.000	20.04	6.98	0.00
		Inner 1RB Right	1.000	5.000	20.00	6.99	0.04
CP-OFDM 16 QAM	3600	Edge 1RB Left	1.000	5.000	20.00	6.99	0.00
		Edge 1RB Right	1.002	5.000	20.04	6.98	0.00
		Outer Full	1.002	5.000	20.04	6.98	0.04
		Inner Full	1.004	5.000	20.08	6.97	0.00
		Inner 1RB Left	1.000	5.000	20.00	6.99	0.00
		Inner 1RB Right	1.000	5.000	20.00	6.99	0.00
	3624.99	Edge 1RB Left	1.000	5.000	20.00	6.99	0.00
		Edge 1RB Right	1.002	5.000	20.04	6.98	0.00
		Outer Full	1.000	4.998	20.01	6.99	0.03
		Inner Full	1.002	5.000	20.04	6.98	0.00
		Inner 1RB Left	1.000	5.000	20.00	6.99	0.00
		Inner 1RB Right	1.000	5.000	20.00	6.99	0.00
	3649.98	Edge 1RB Left	1.002	5.000	20.04	6.98	0.00
		Edge 1RB Right	1.002	5.000	20.04	6.98	0.00
		Outer Full	1.002	5.000	20.04	6.98	0.00
		Inner Full	1.002	5.000	20.04	6.98	0.00
		Inner 1RB Left	1.000	5.000	20.00	6.99	0.00
		Inner 1RB Right	1.002	5.000	20.04	6.98	0.00
CP-OFDM 64 QAM	3600	Edge 1RB Left	1.002	5.000	20.04	6.98	0.00
		Edge 1RB Right	1.000	5.000	20.00	6.99	0.00
		Outer Full	1.002	5.000	20.04	6.98	0.00
		Inner Full	1.002	4.998	20.05	6.98	0.03
		Inner 1RB Left	1.002	5.000	20.04	6.98	0.00
		Inner 1RB Right	1.000	5.000	20.00	6.99	0.00
	3624.99	Edge 1RB Left	1.000	5.000	20.00	6.99	0.00
		Edge 1RB Right	1.000	5.000	20.00	6.99	0.00

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CP-OFDM 256 QAM		Outer_Full	1.000	5.000	20.00	6.99	0.03
		Inner_Full	1.000	5.000	20.00	6.99	0.01
		Inner_1RB_Left	1.000	5.000	20.00	6.99	0.00
		Inner_1RB_Right	1.000	5.000	20.00	6.99	0.00
	3649.98	Edge_1RB_Left	1.000	5.000	20.00	6.99	0.00
		Edge_1RB_Right	1.000	5.000	20.00	6.99	0.00
		Outer_Full	1.000	4.998	20.01	6.99	0.02
		Inner_Full	1.000	5.000	20.00	6.99	0.03
		Inner_1RB_Left	1.000	5.000	20.00	6.99	0.00
		Inner_1RB_Right	1.000	5.000	20.00	6.99	0.00
		Edge_1RB_Left	1.002	5.000	20.04	6.98	0.00
		Edge_1RB_Right	1.000	5.000	20.00	6.99	0.00
	3600	Outer_Full	1.002	5.000	20.04	6.98	0.00
		Inner_Full	1.002	5.000	20.04	6.98	0.00
		Inner_1RB_Left	1.000	5.000	20.00	6.99	0.00
		Inner_1RB_Right	1.000	5.000	20.00	6.99	0.00
	3624.99	Edge_1RB_Left	1.000	5.000	20.00	6.99	0.00
		Edge_1RB_Right	1.000	5.000	20.00	6.99	0.00
		Outer_Full	1.002	5.000	20.04	6.98	0.00
		Inner_Full	1.002	5.000	20.04	6.98	0.00
		Inner_1RB_Left	1.000	5.000	20.00	6.99	0.00
		Inner_1RB_Right	1.000	5.000	20.00	6.99	0.00
	3649.98	Edge_1RB_Left	1.002	5.000	20.04	6.98	0.00
		Edge_1RB_Right	1.002	5.000	20.04	6.98	0.00
		Outer_Full	1.000	5.000	20.00	6.99	0.03
		Inner_Full	1.002	5.000	20.04	6.98	0.00
		Inner_1RB_Left	1.000	5.000	20.00	6.99	0.00
		Inner_1RB_Right	1.000	5.000	20.00	6.99	0.00



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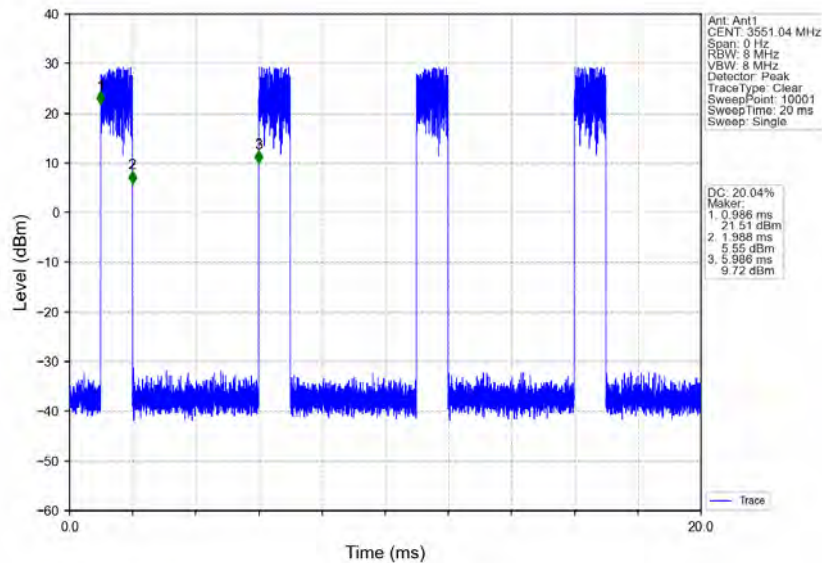
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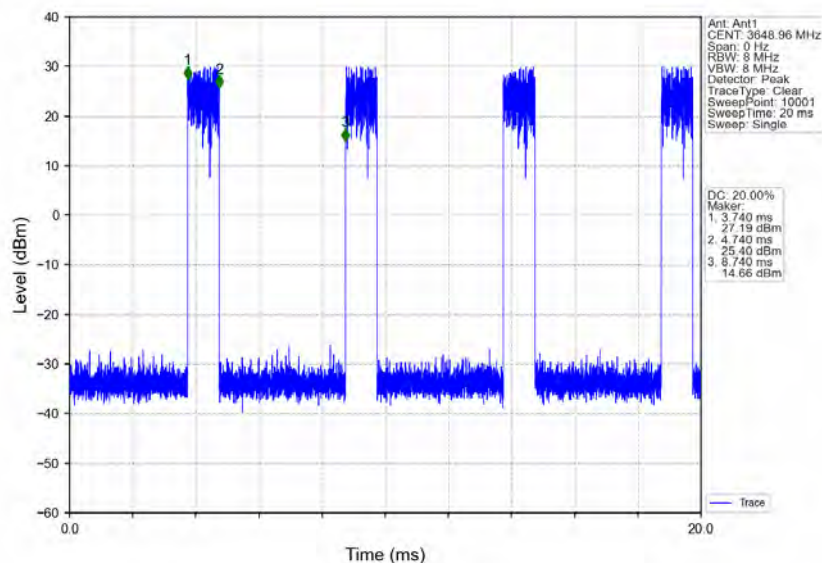
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1.11.2 Test Graph

n78d 30kHz MIMO NTN 100MHz CP-OFDM QPSK 3600MHz Edge 1RB Left



n78d 30kHz MIMO NTN 100MHz CP-OFDM QPSK 3600MHz Edge 1RB Right



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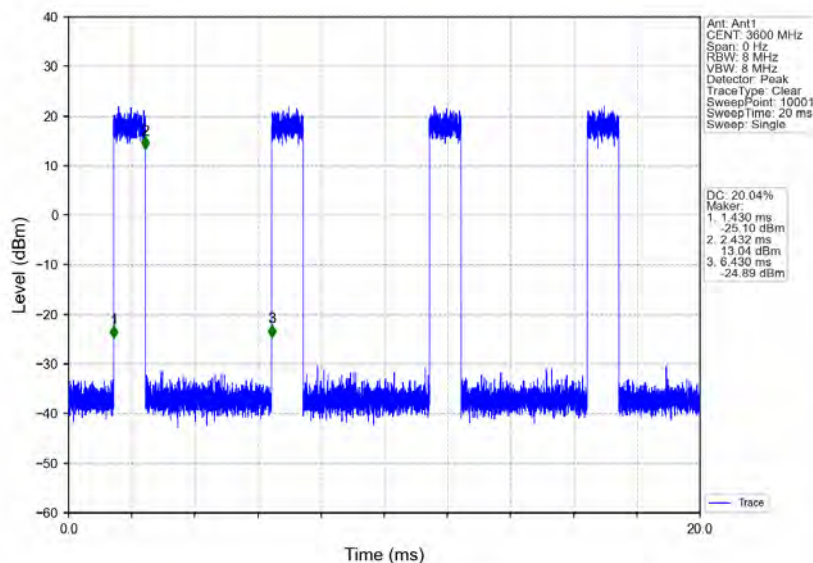
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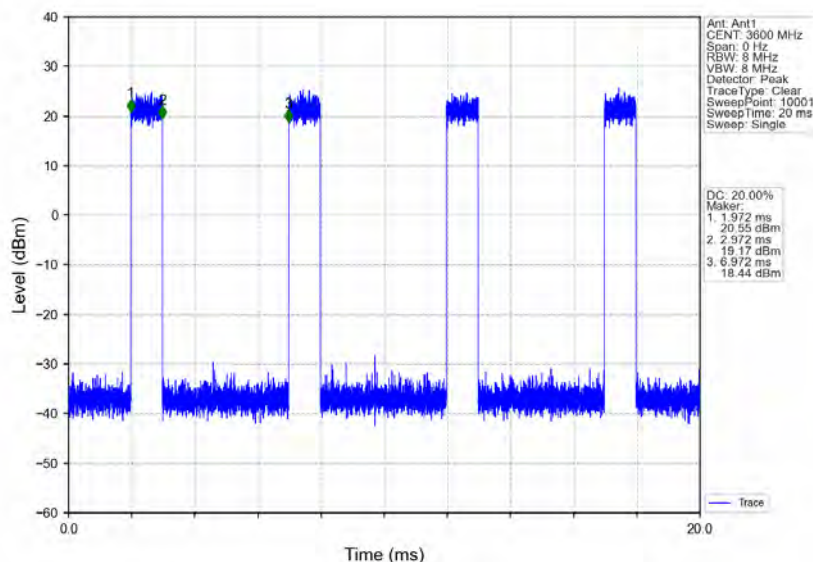
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n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM_QPSK_3600MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM_QPSK_3600MHz_Inner_Full



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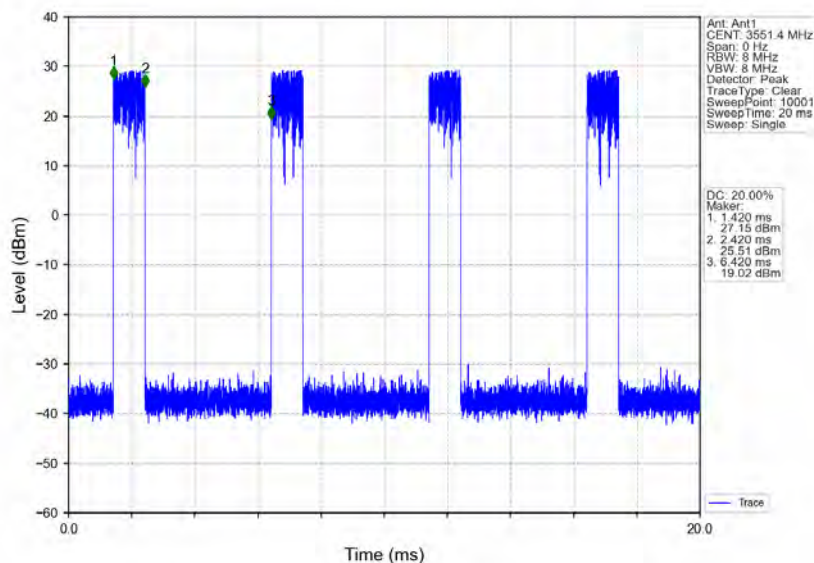
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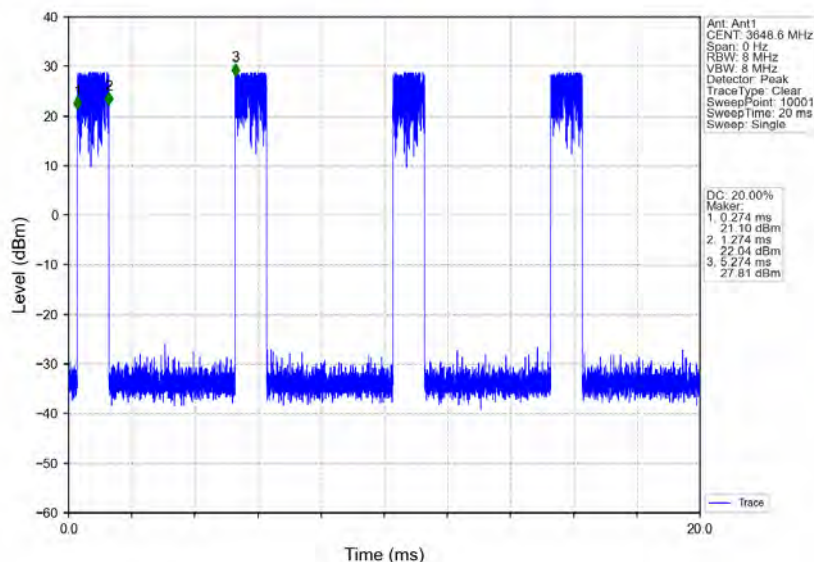
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n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM_QPSK_3600MHz_Inner_1RB_Right



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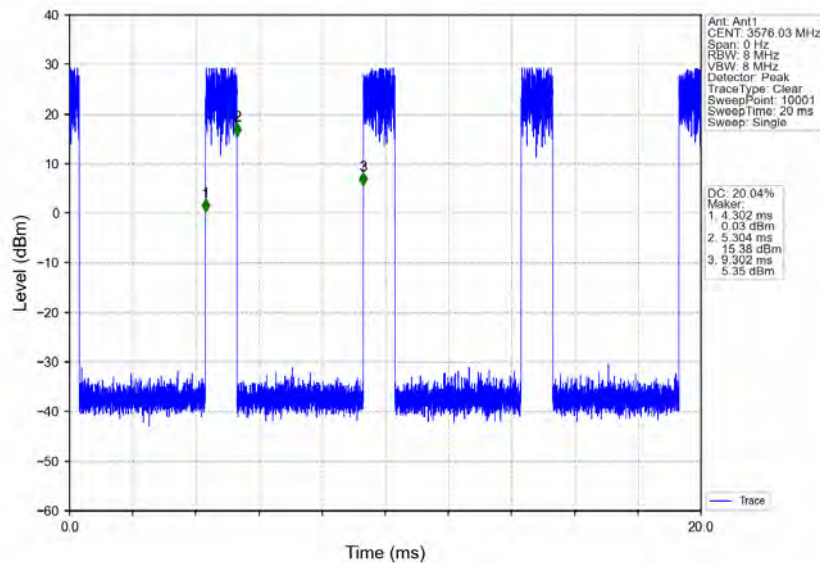
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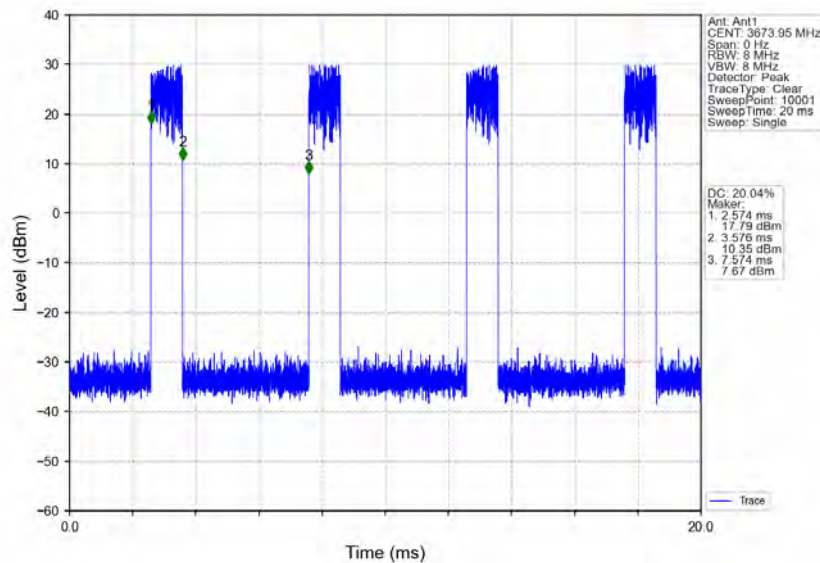
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n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM_QPSK_3624.99MHz_Edge_1RB_Left



n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM_QPSK_3624.99MHz_Edge_1RB_Right



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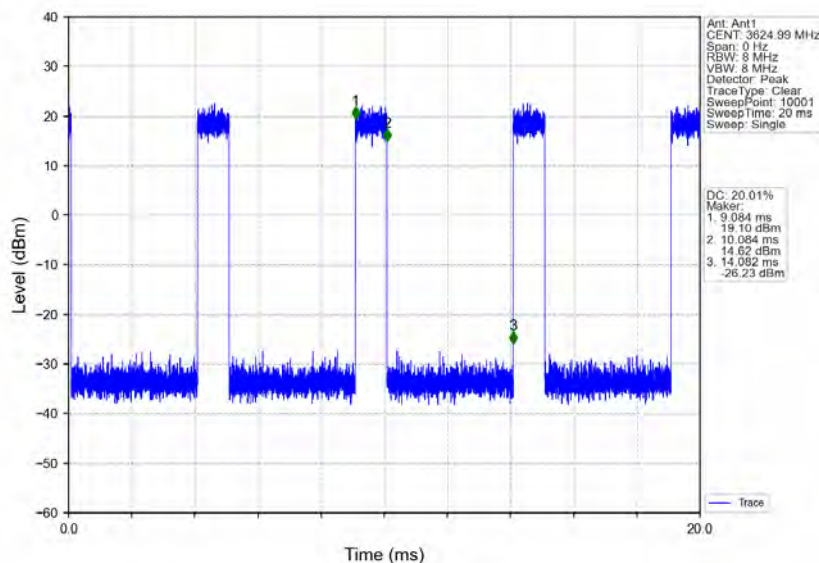
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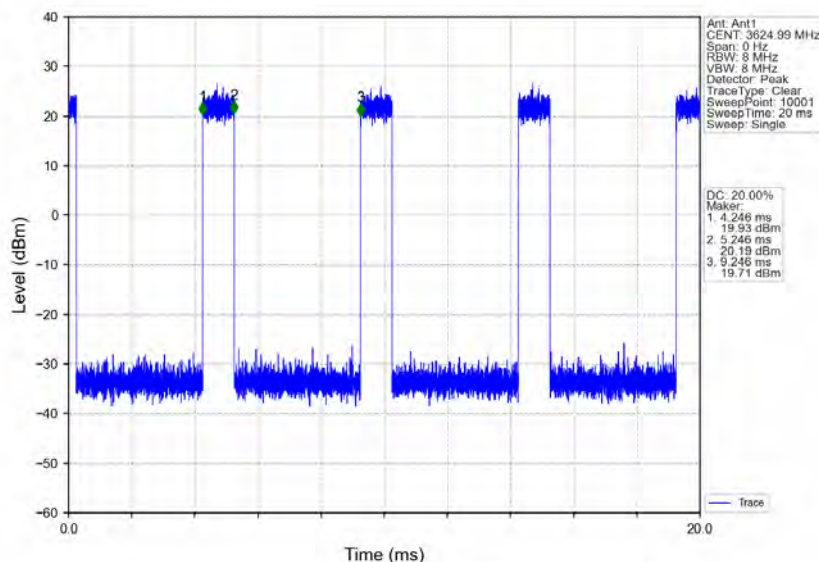
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n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM_QPSK_3624.99MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM_QPSK_3624.99MHz_Inner_Full



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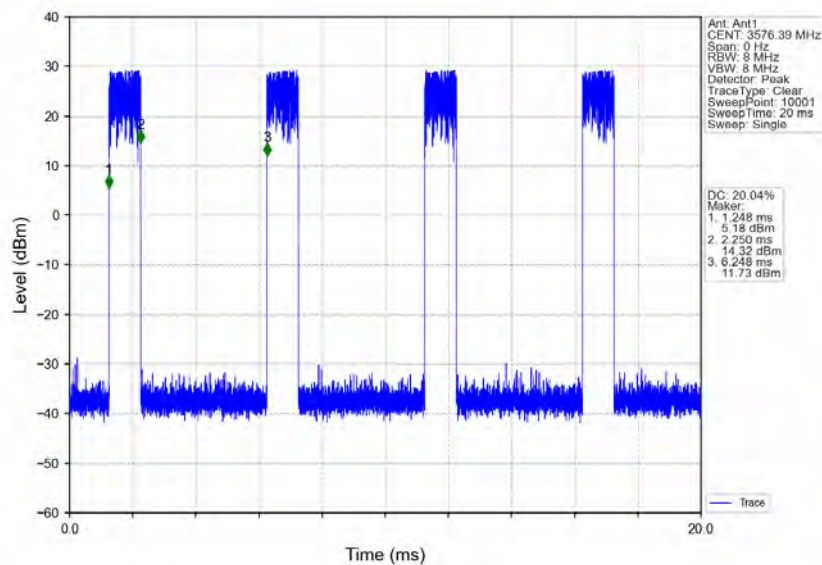
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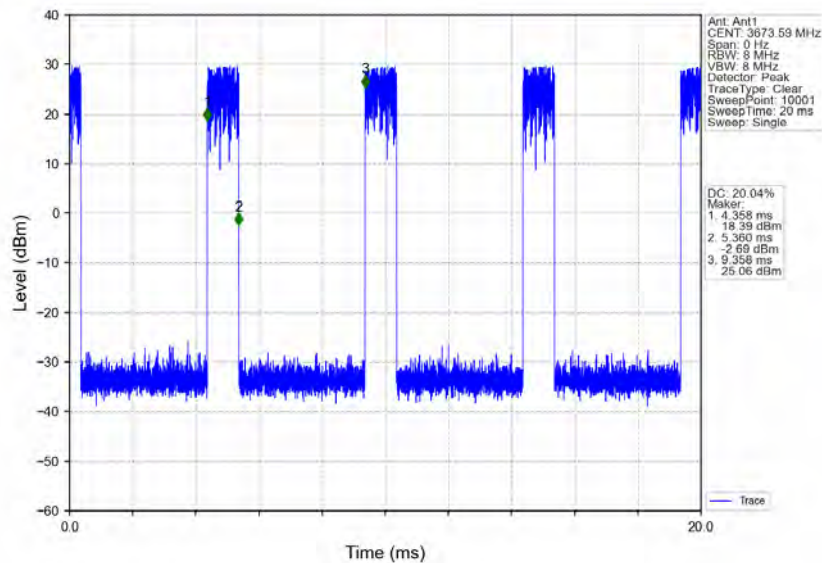
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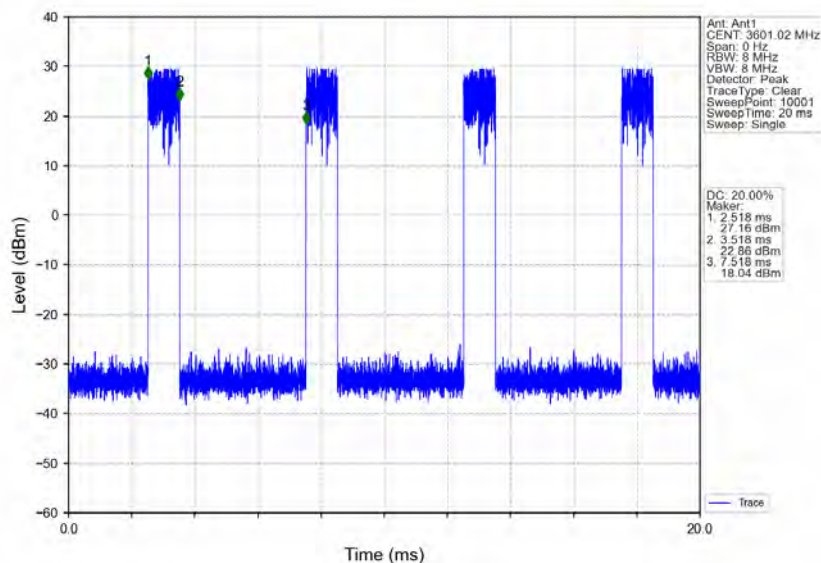
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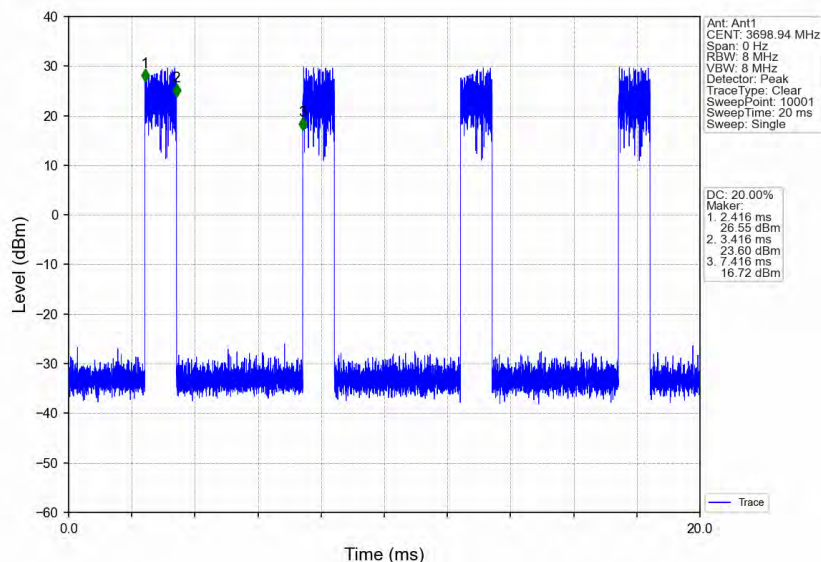
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n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM_QPSK_3649.98MHz_Edge_1RB_Right



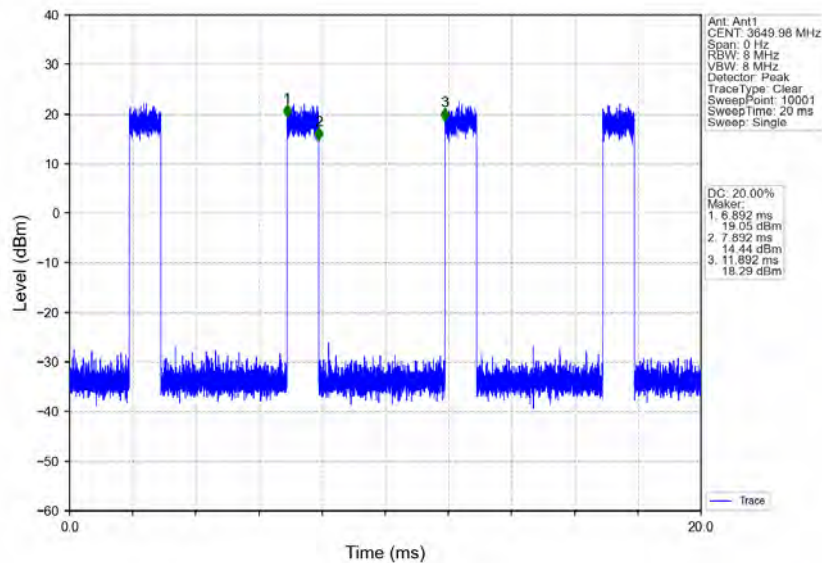
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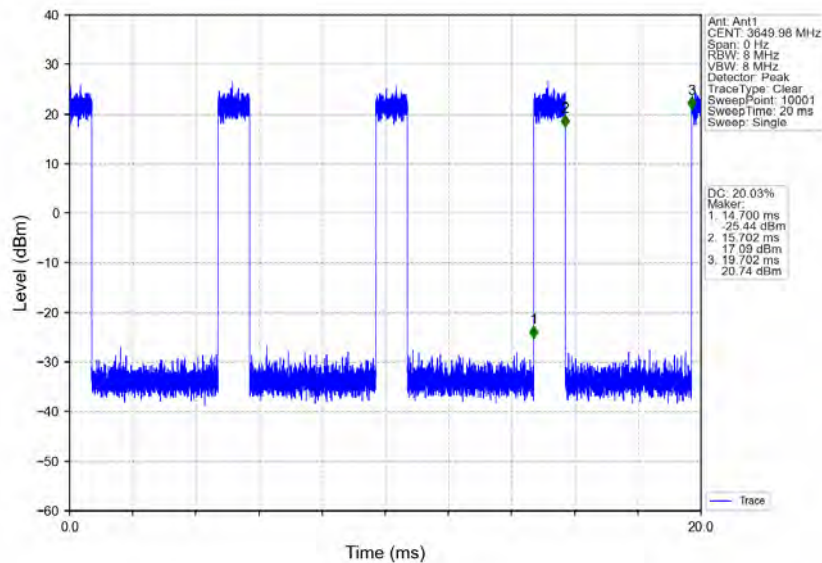
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n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM QPSK_3649.98MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM QPSK_3649.98MHz_Inner_Full



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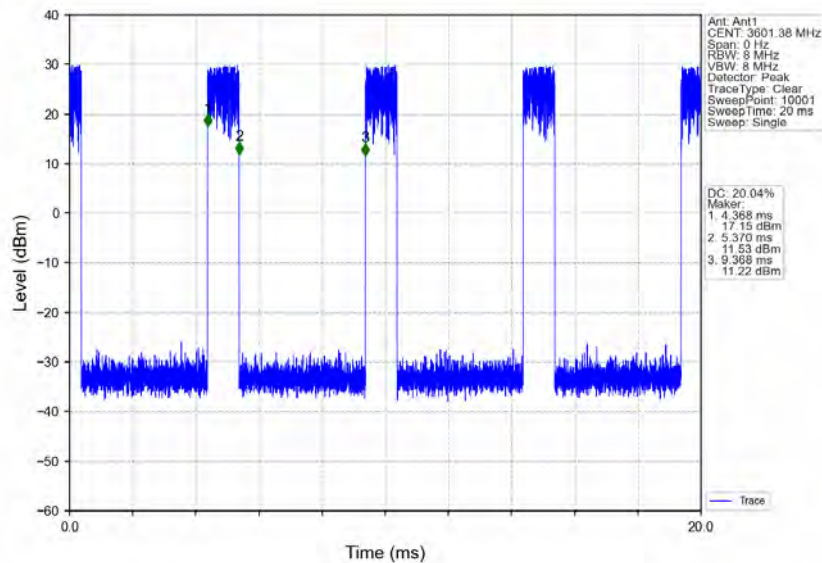
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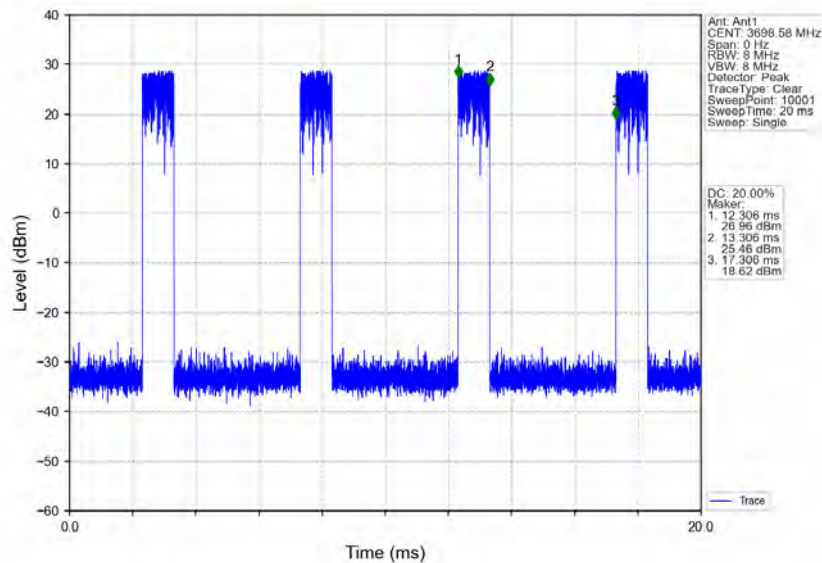
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n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM_QPSK_3649.98MHz_Inner_1RB_Left



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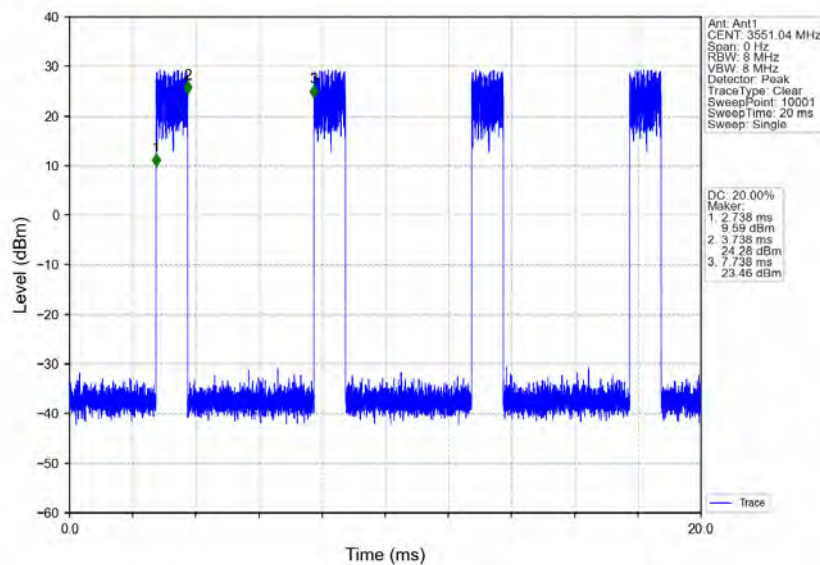
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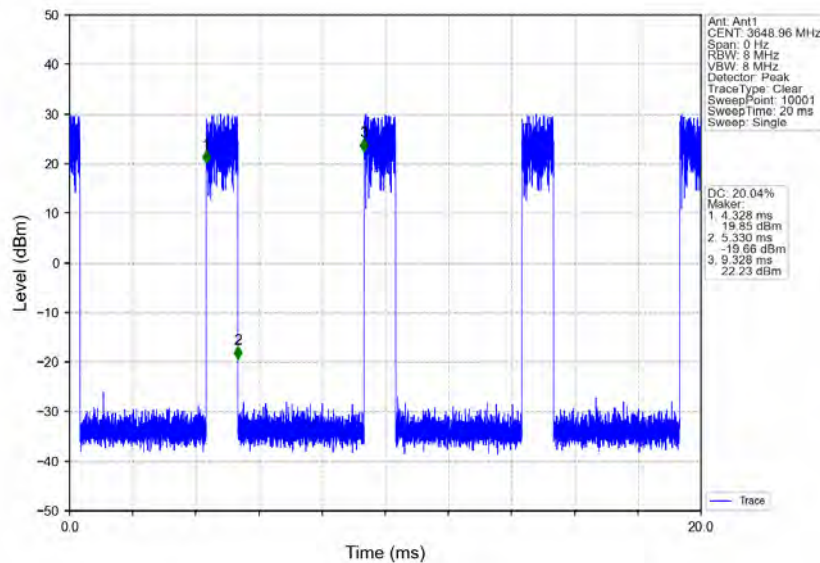
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n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM_16_QAM_3600MHz_Edge_1RB_Left



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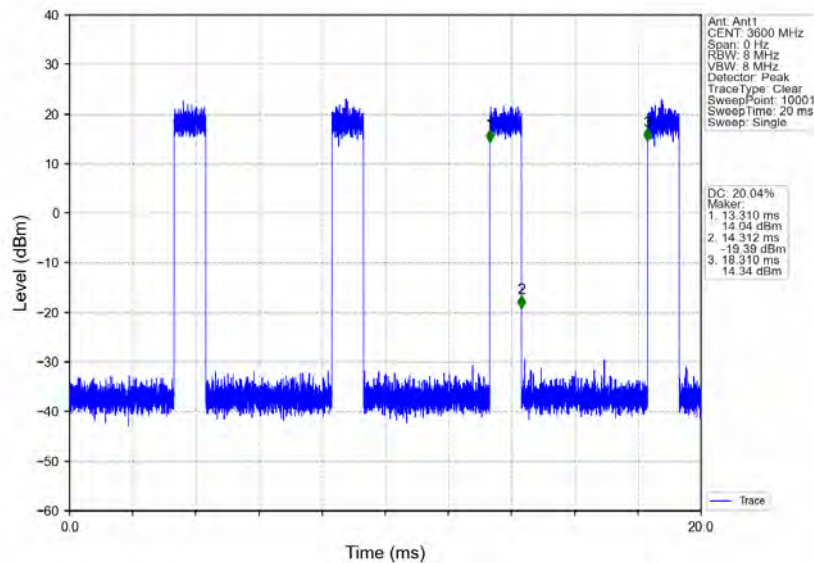
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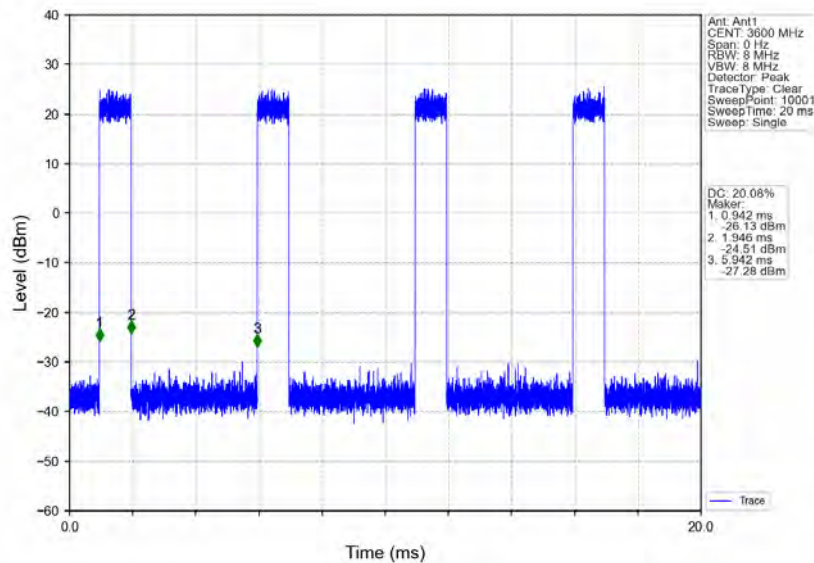
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n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM_16_QAM_3600MHz_Outer_Full



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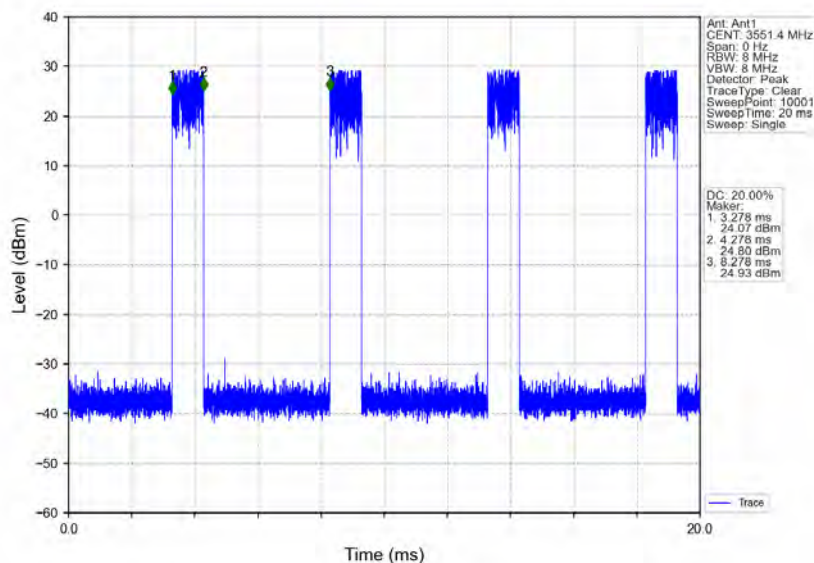
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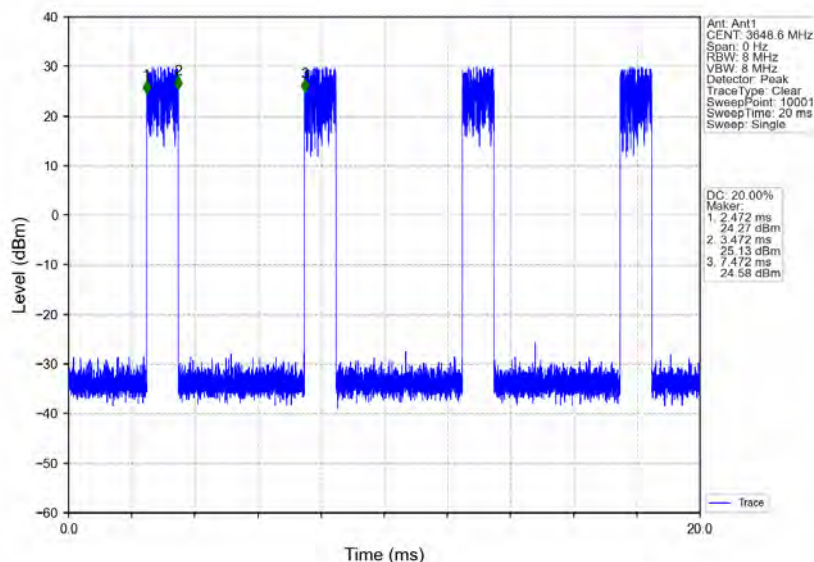
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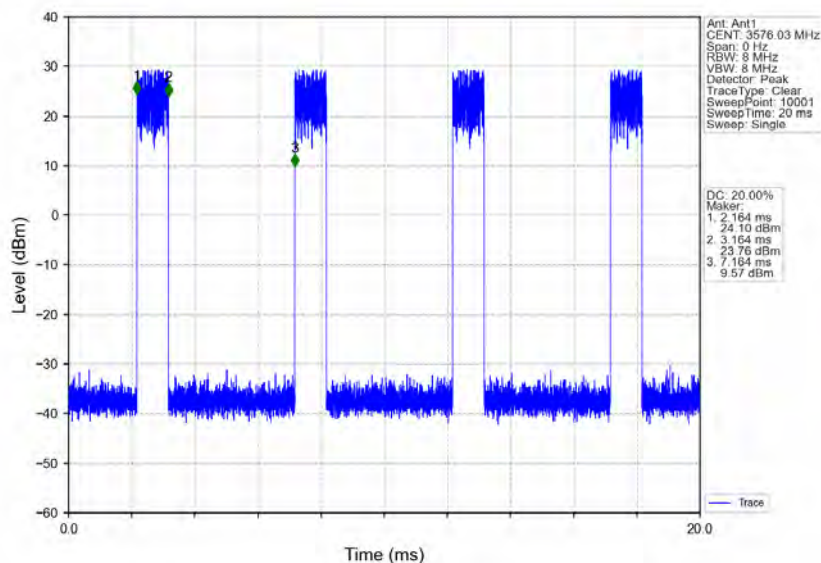
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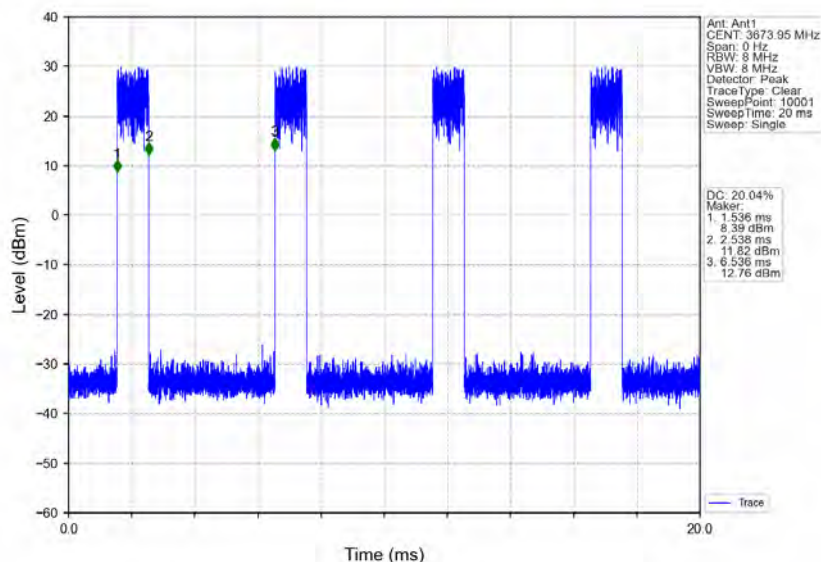
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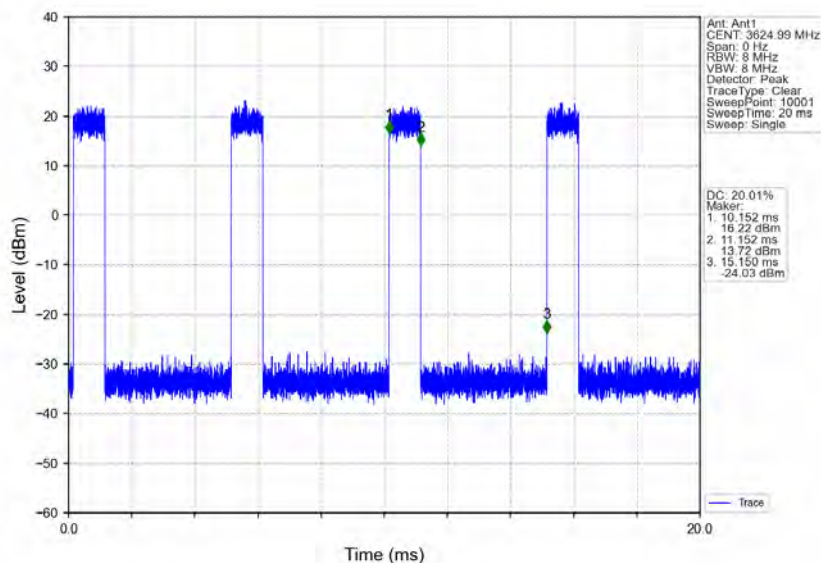
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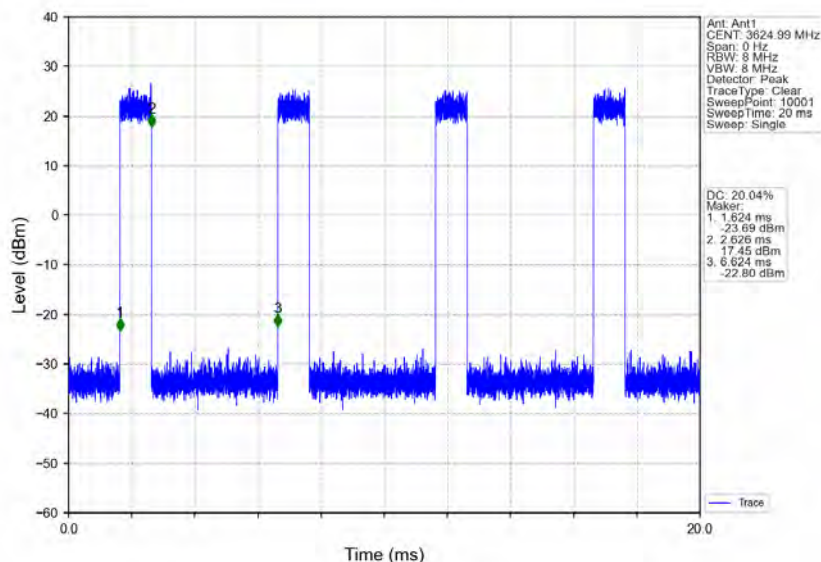
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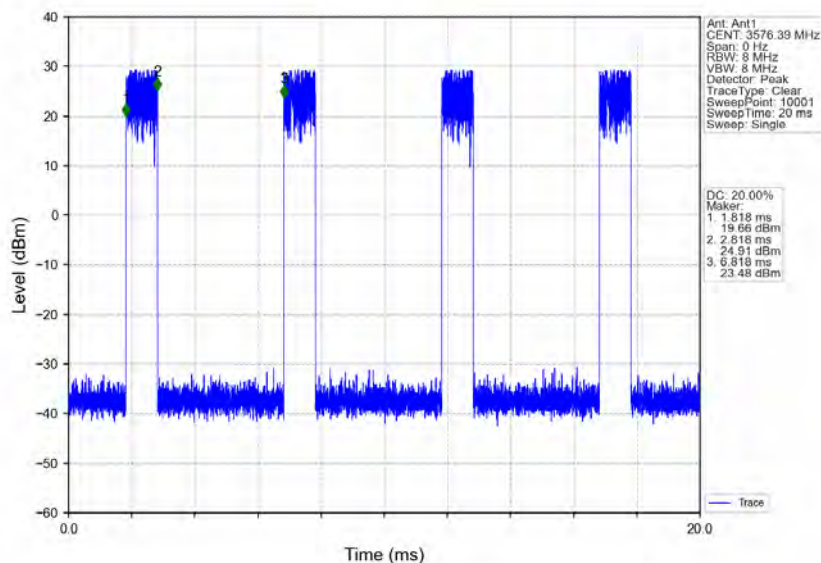
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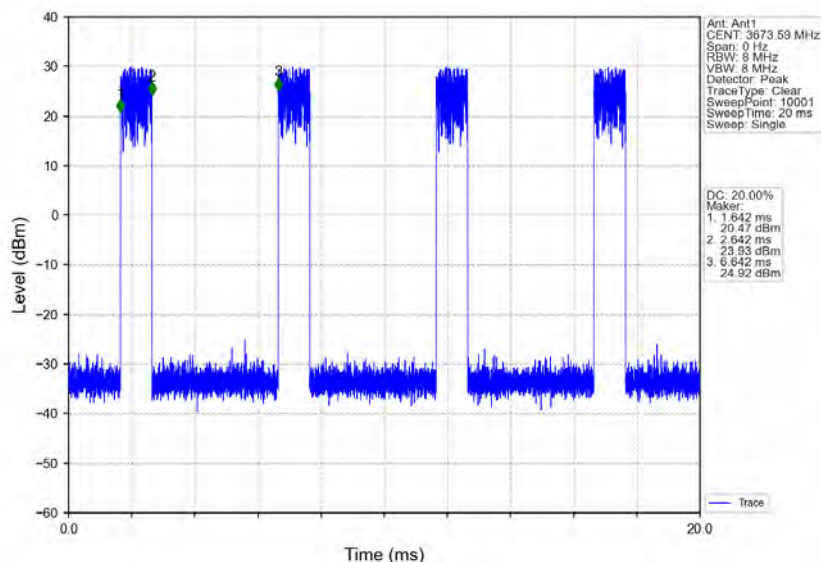
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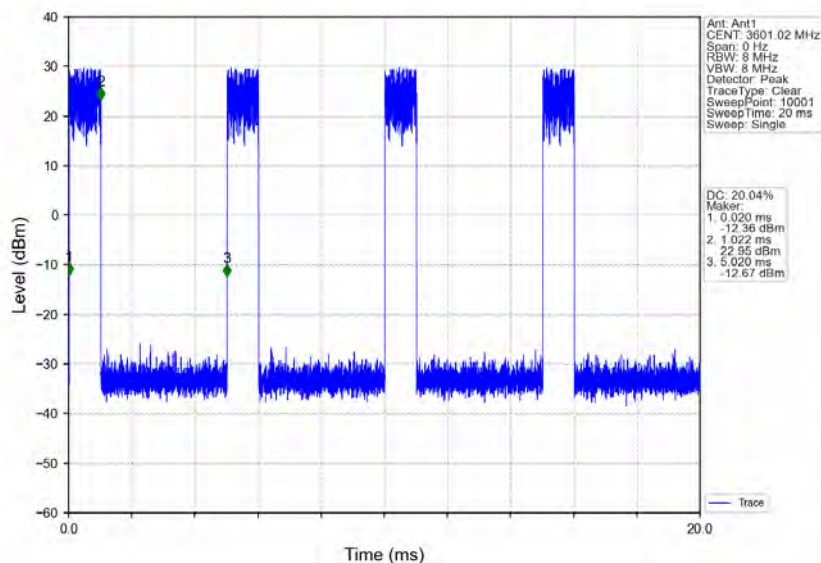
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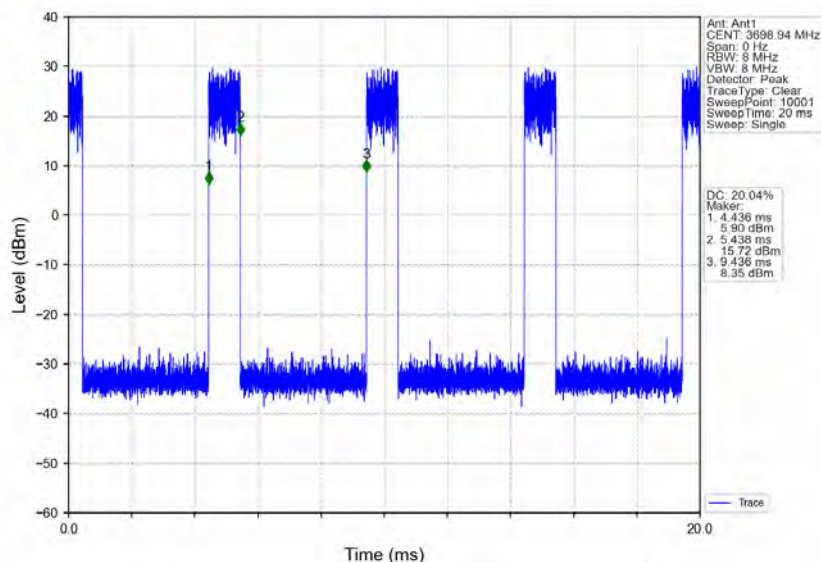
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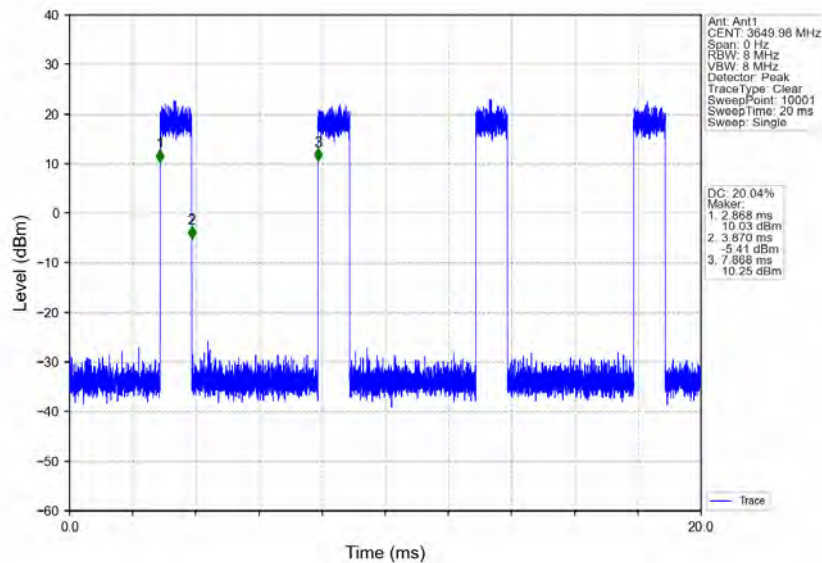
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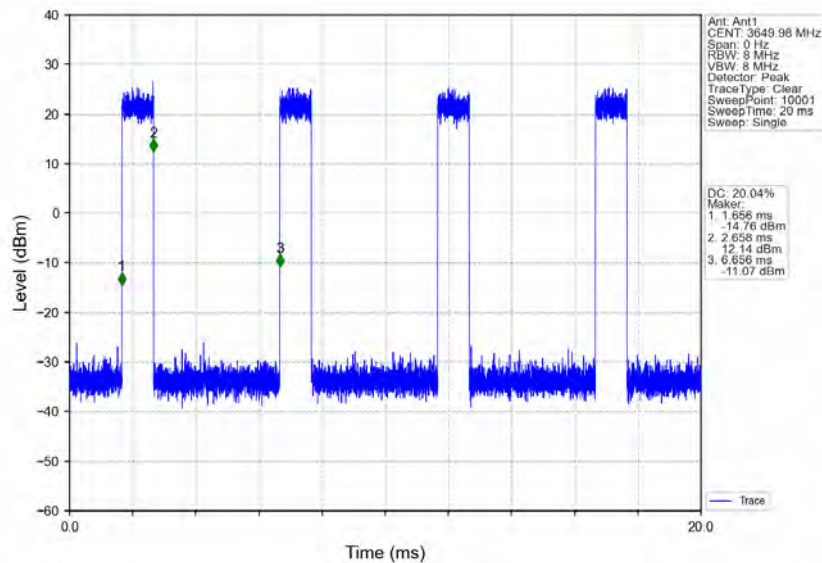
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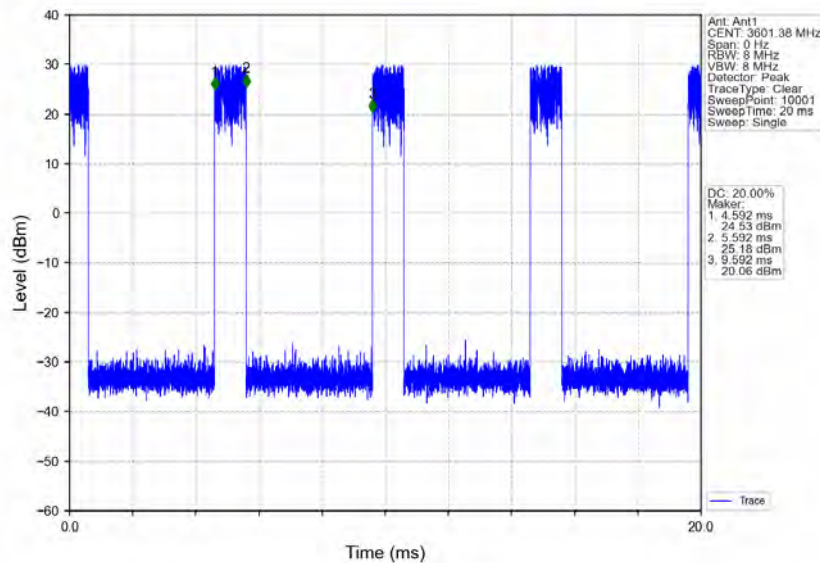
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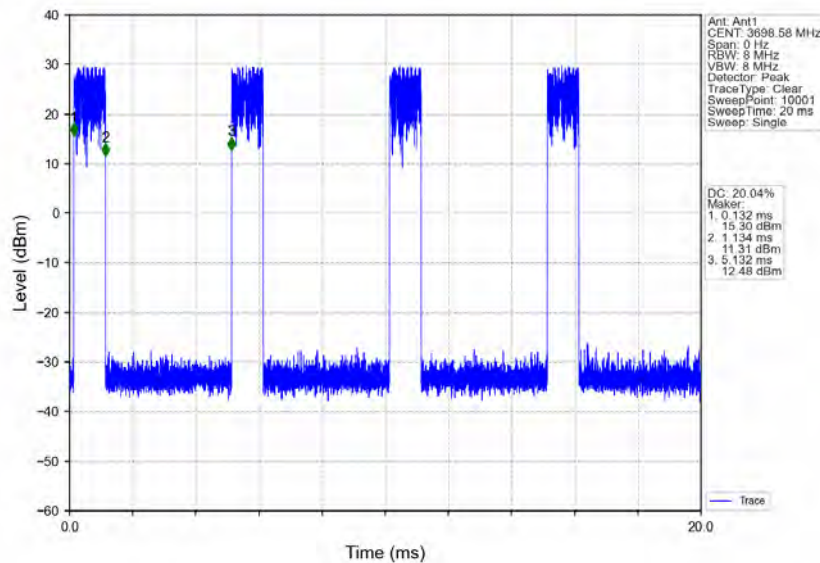
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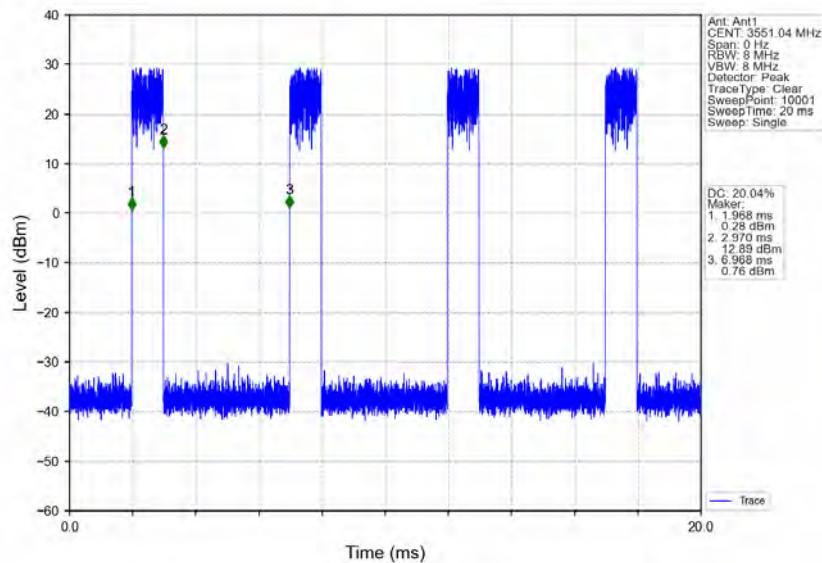
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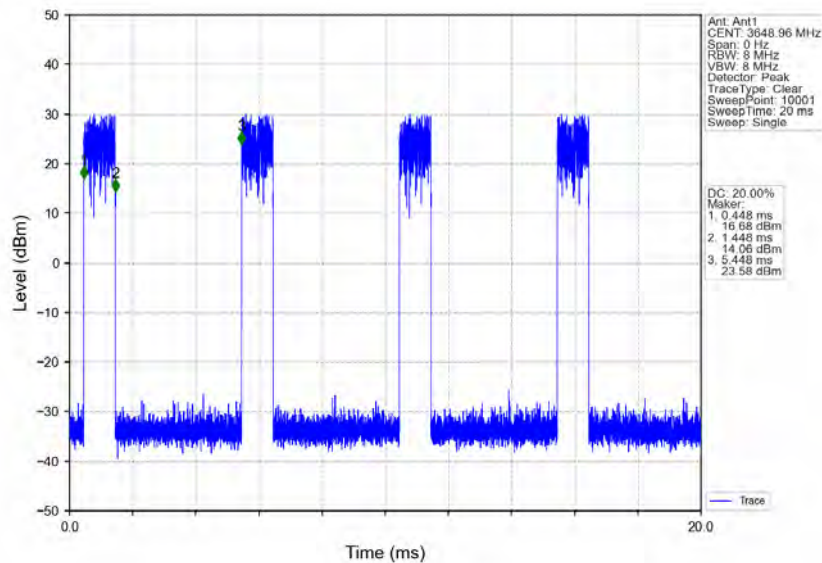
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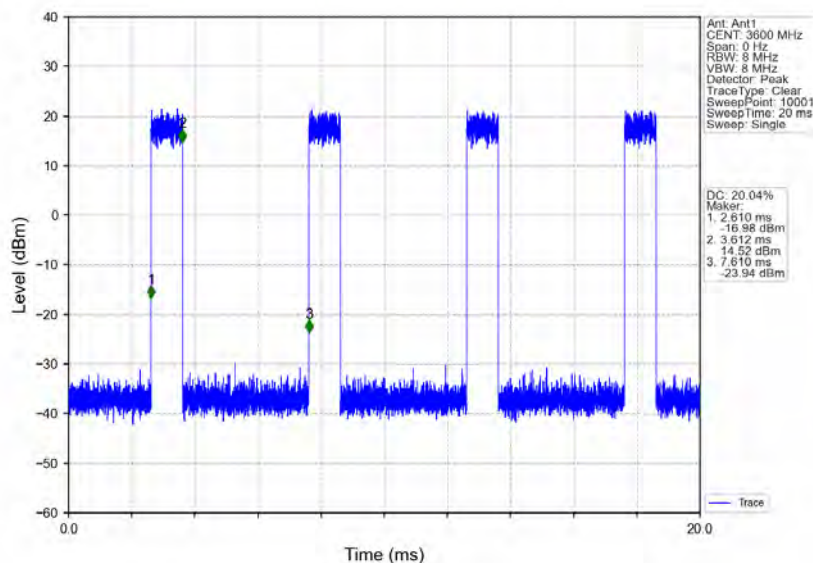
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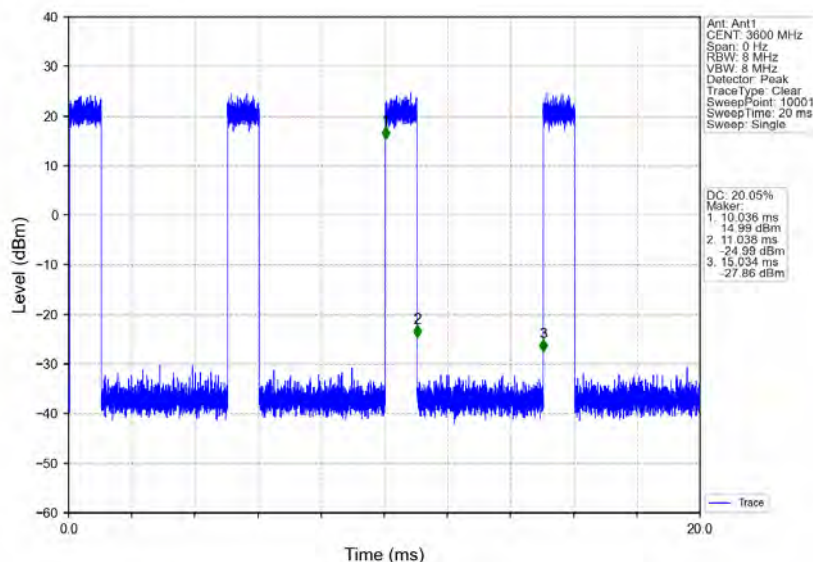
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n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM_64_QAM_3600MHz_Outer_Full



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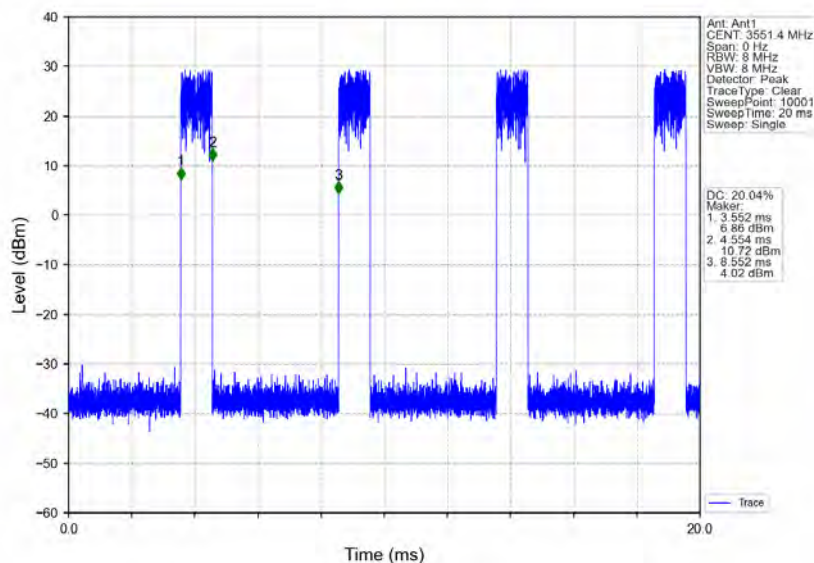
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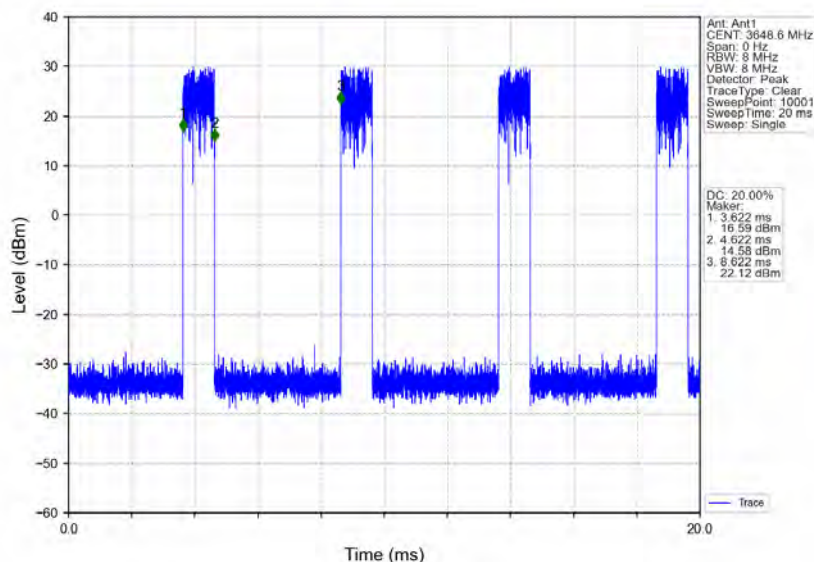
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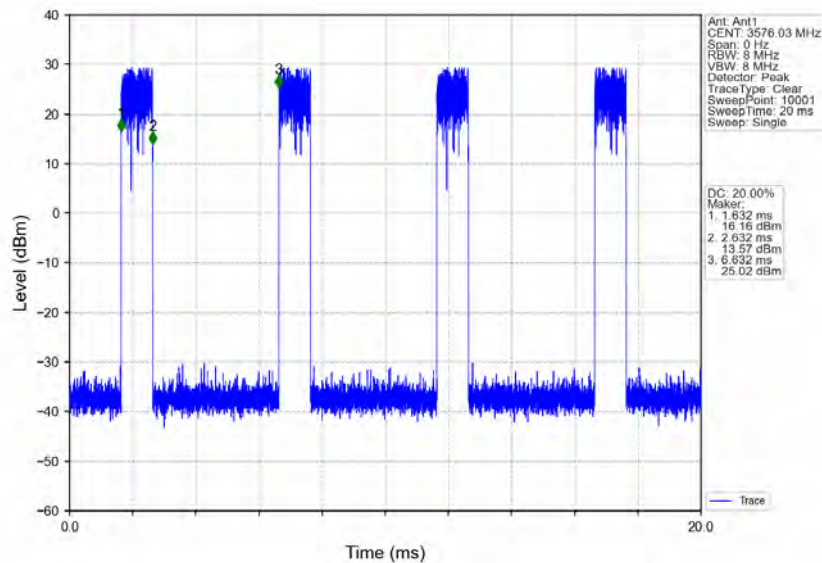
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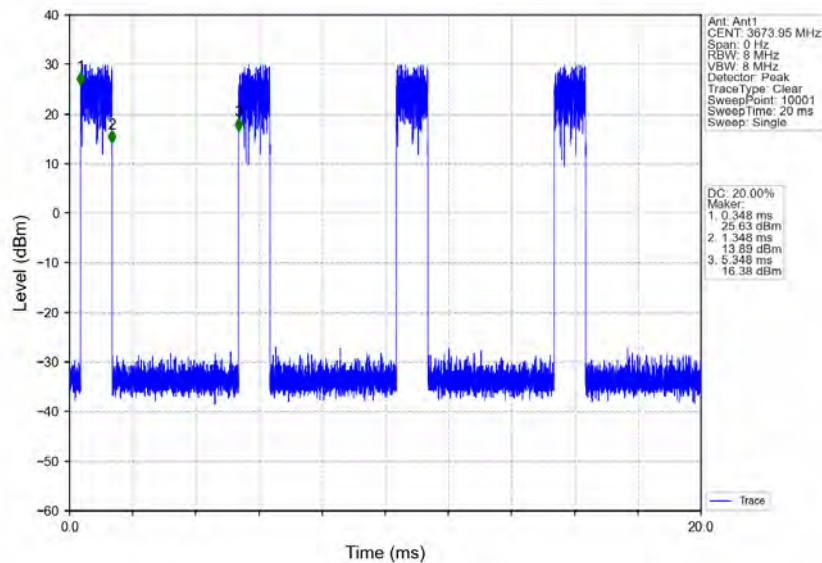
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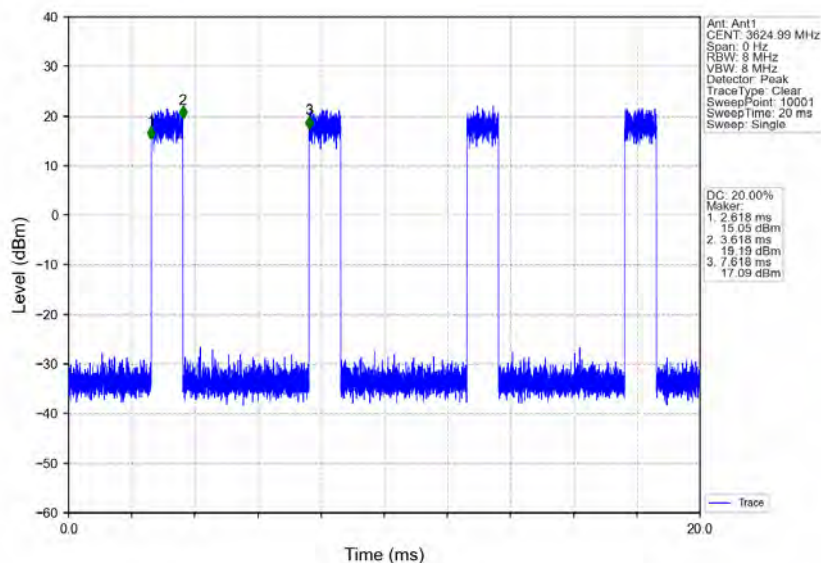
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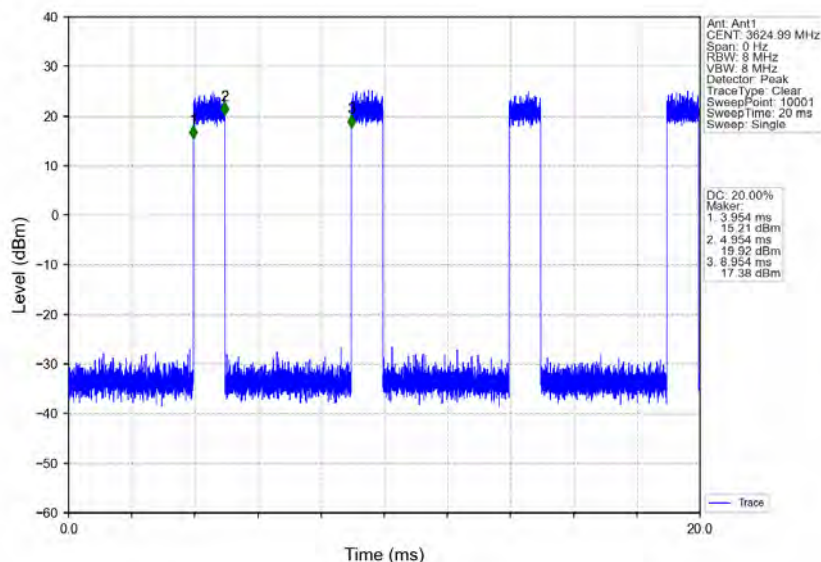
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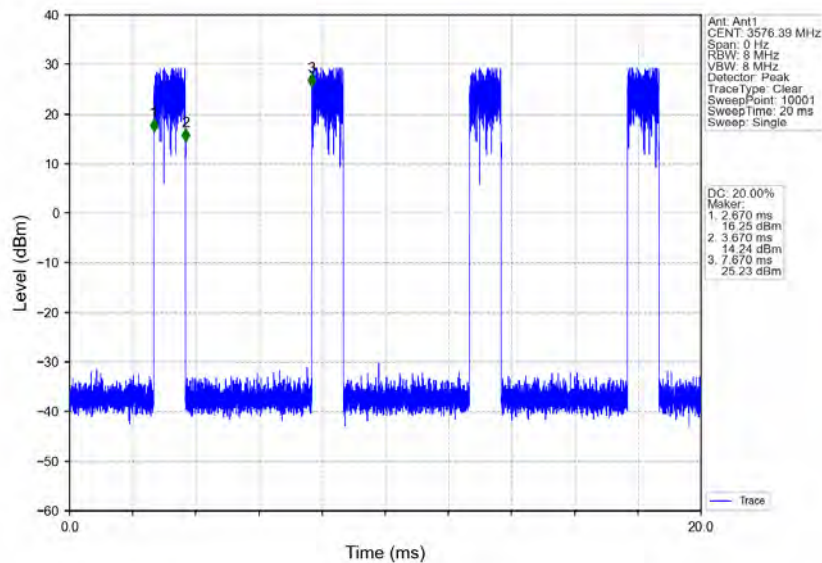
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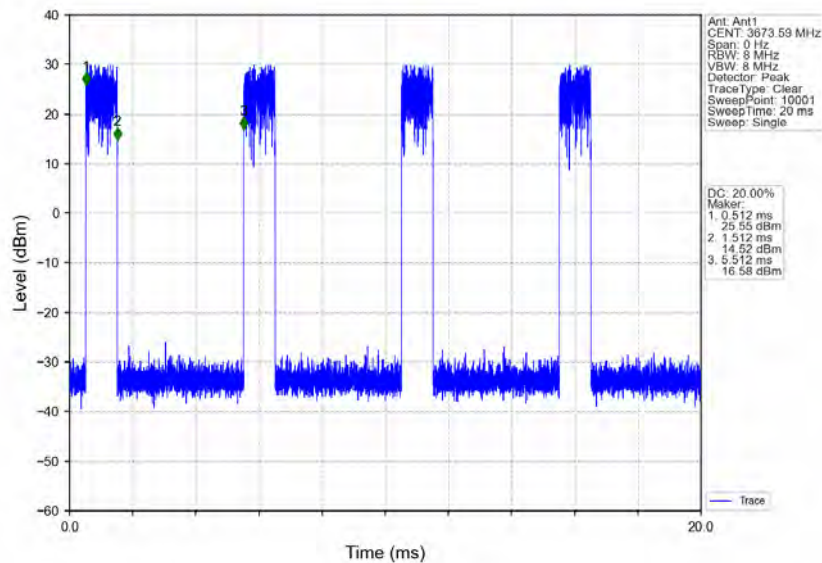
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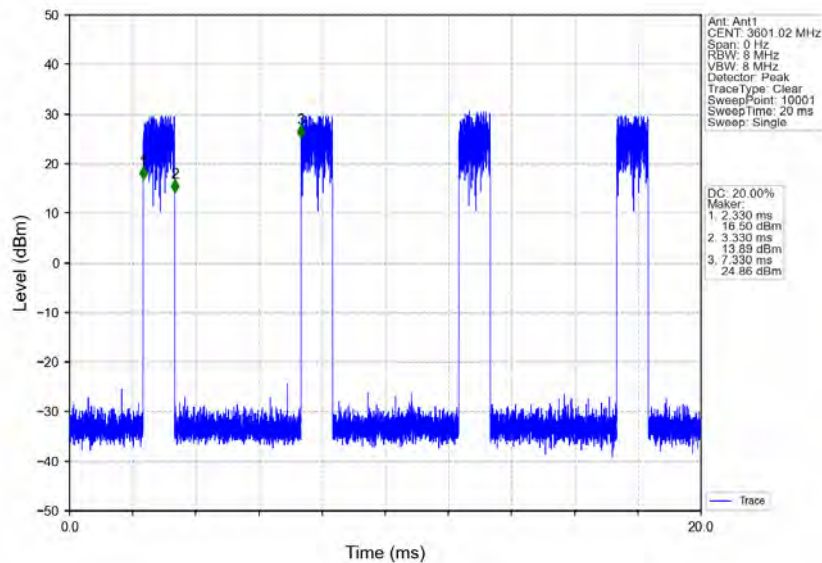
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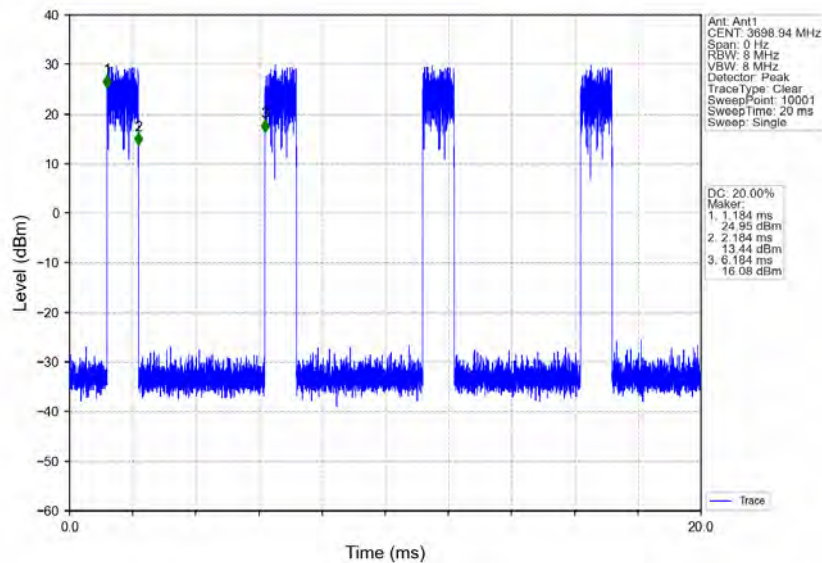
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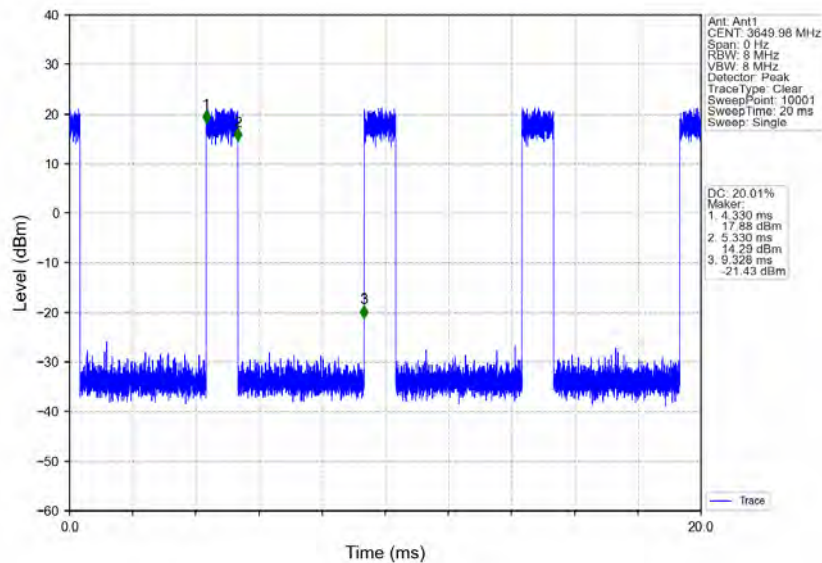
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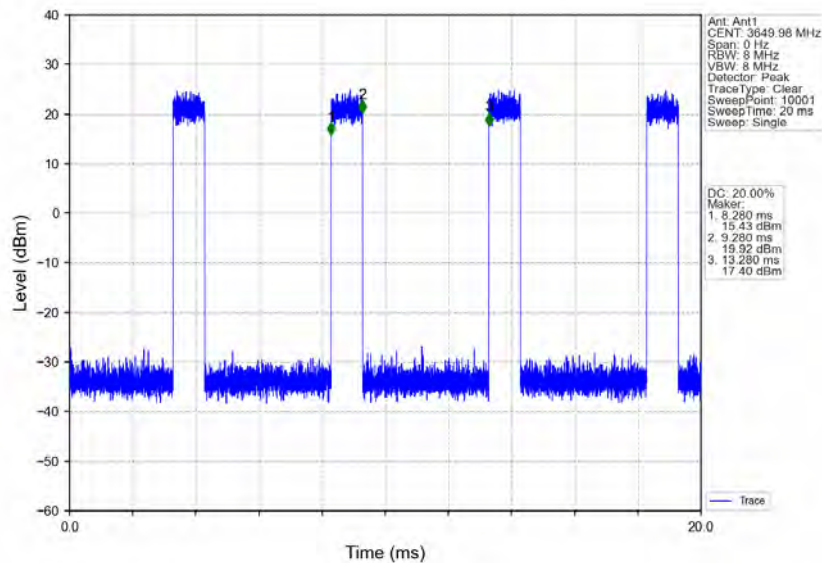
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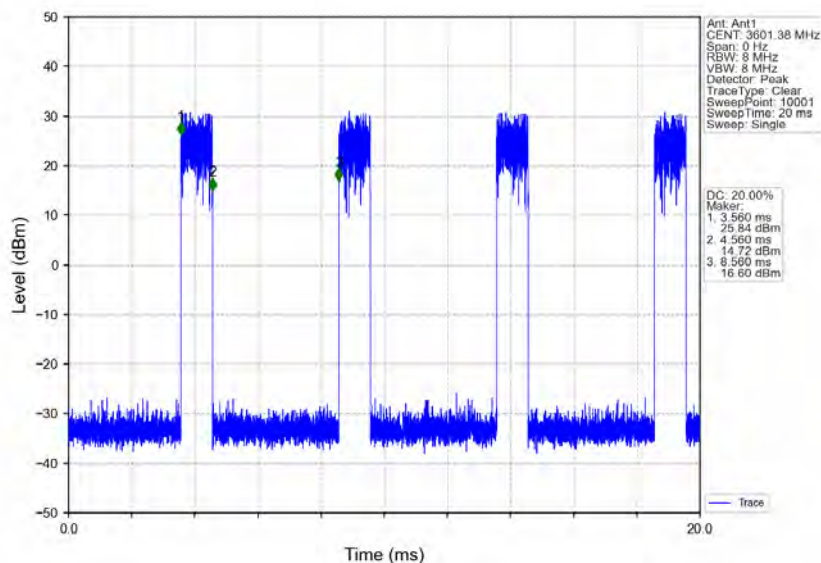
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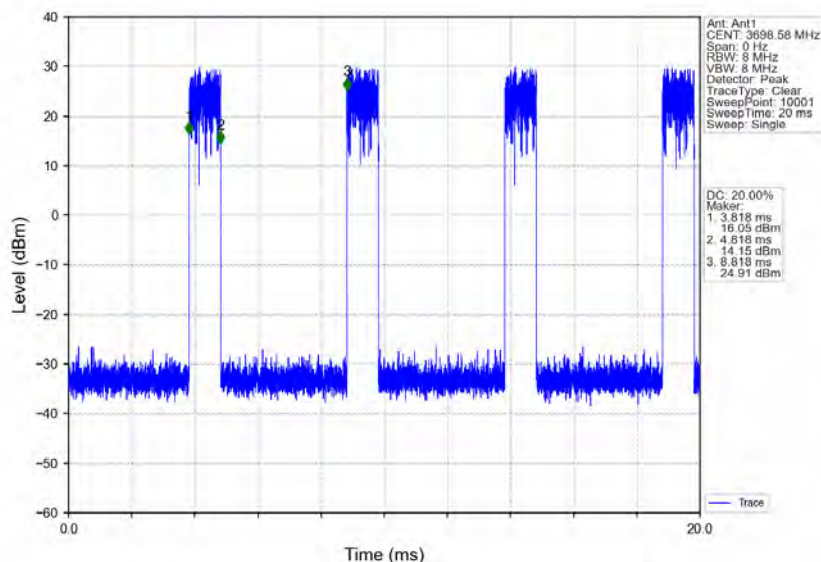
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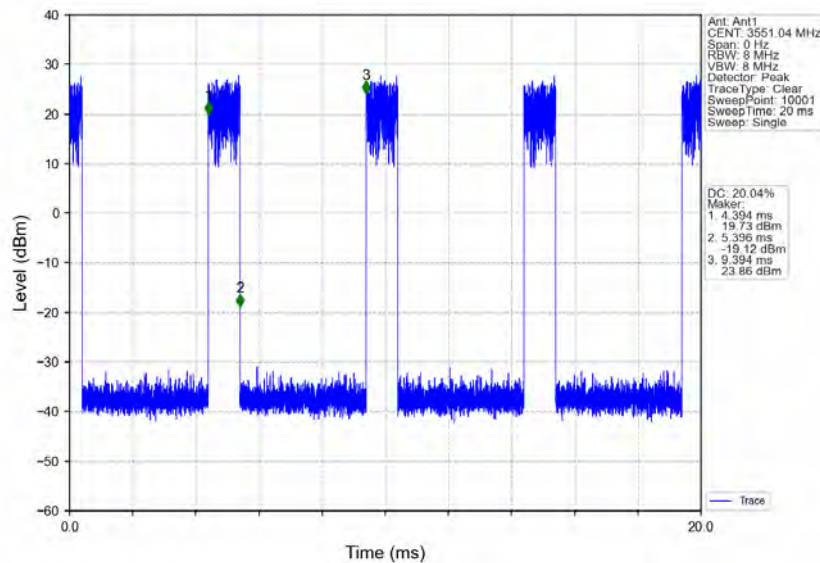
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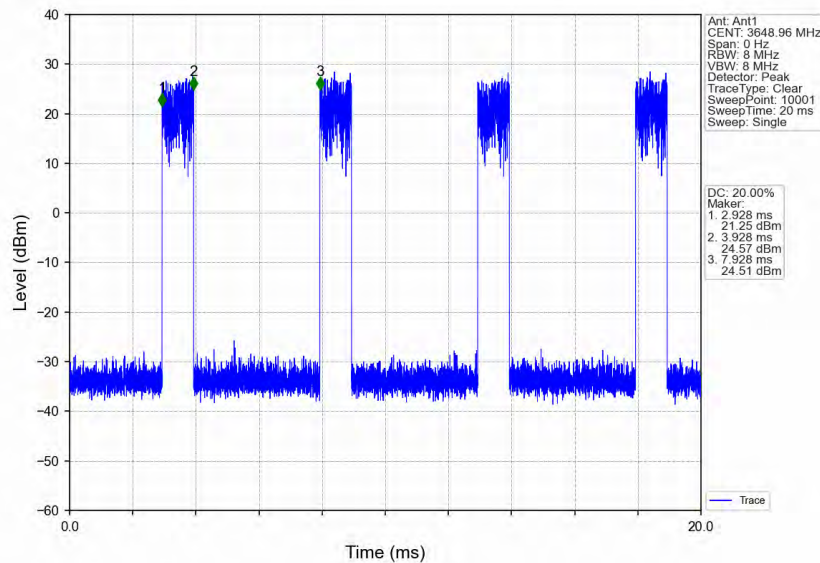
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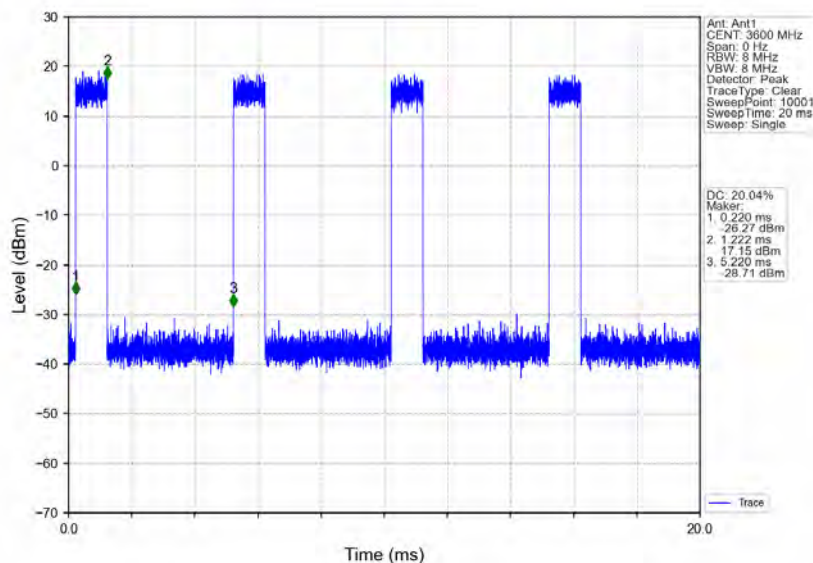
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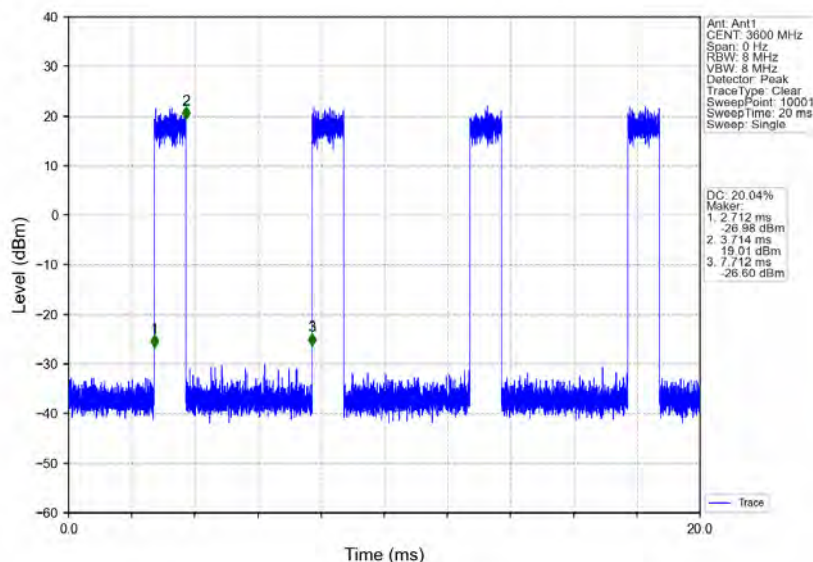
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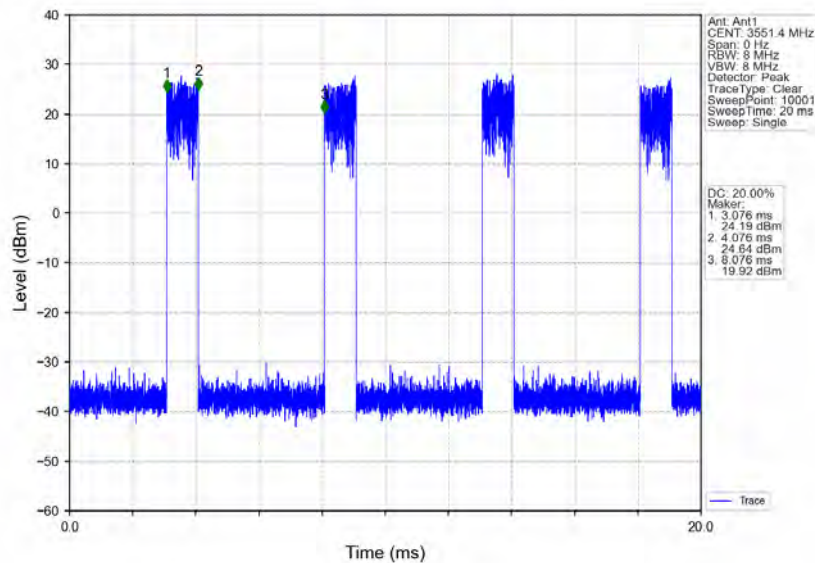
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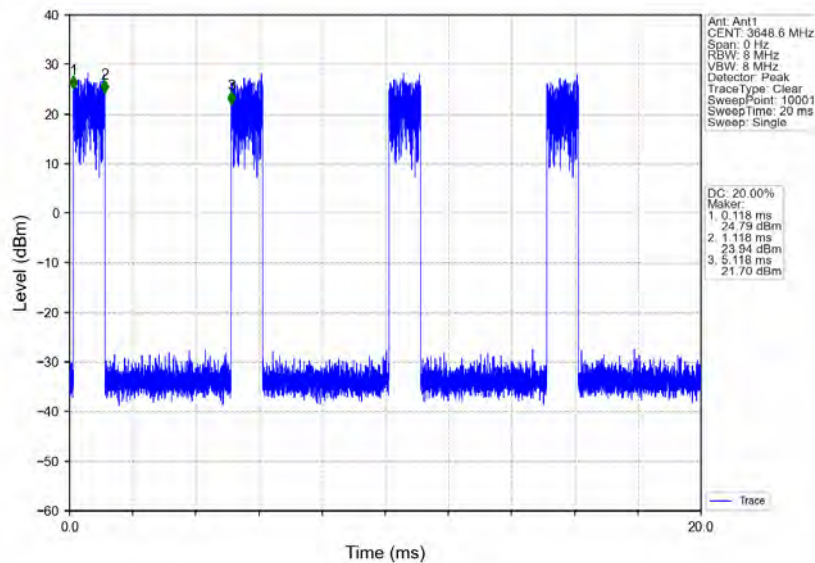
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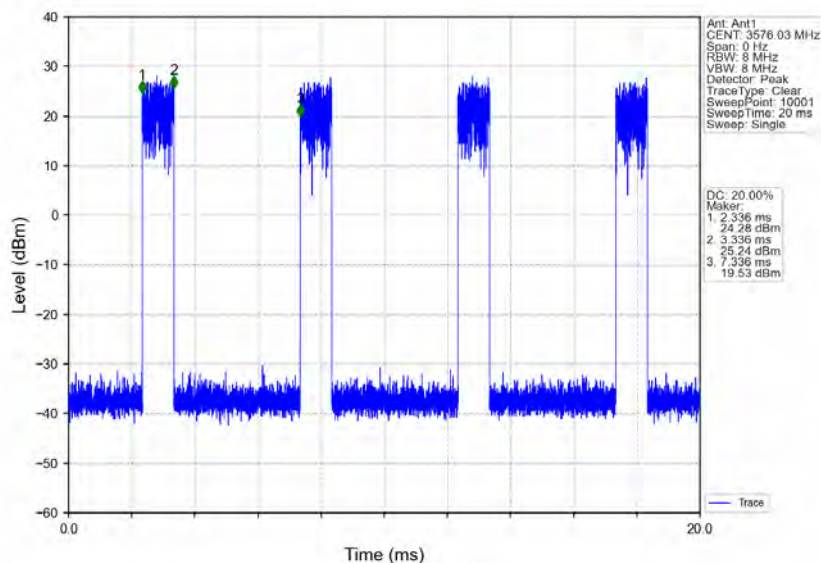
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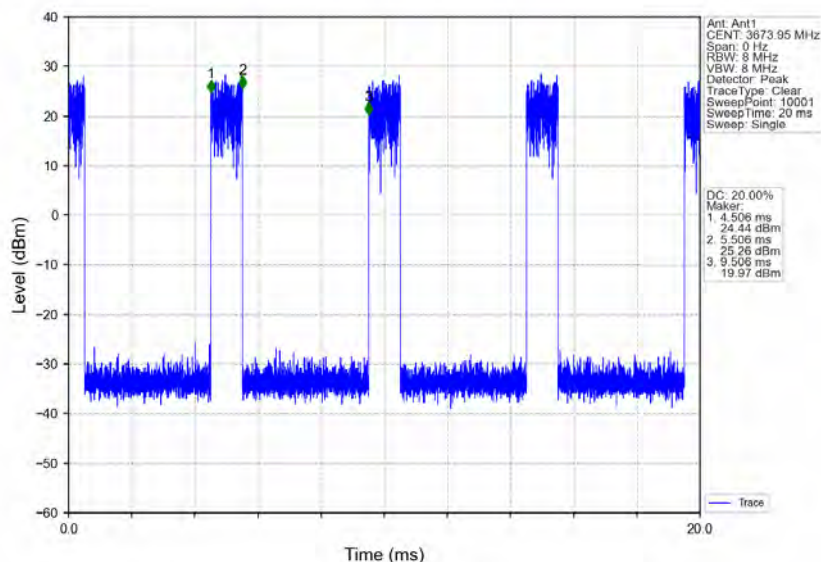
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n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM 256 QAM 3624.99MHz_Edge_1RB_Left



n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM 256 QAM 3624.99MHz_Edge_1RB_Right



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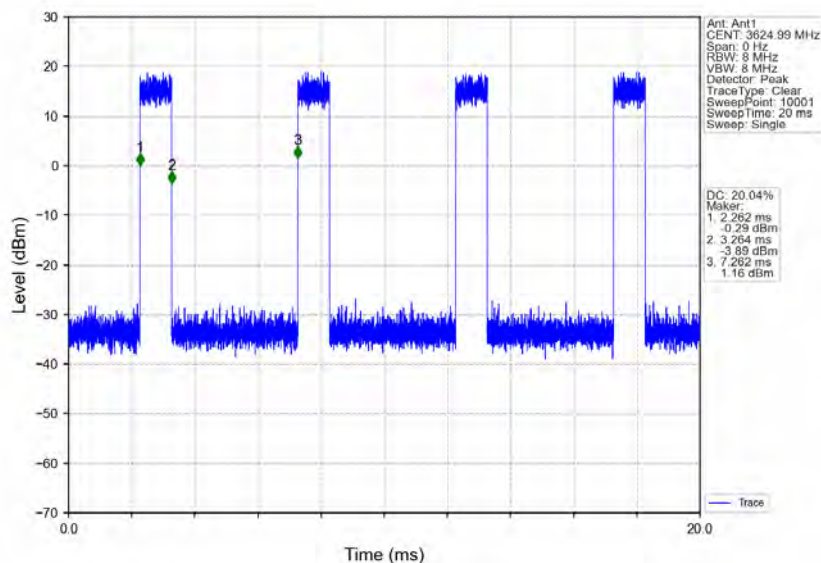
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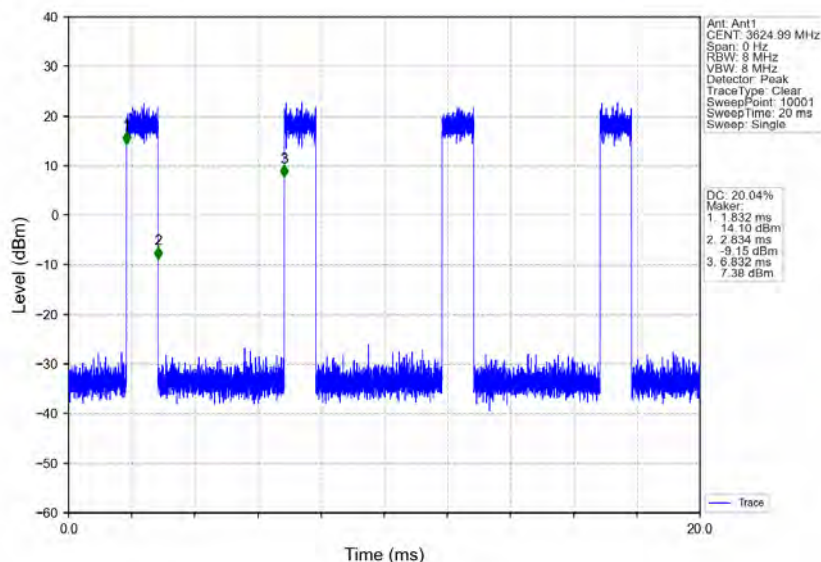
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n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM 256 QAM 3624.99MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM 256 QAM 3624.99MHz_Inner_Full



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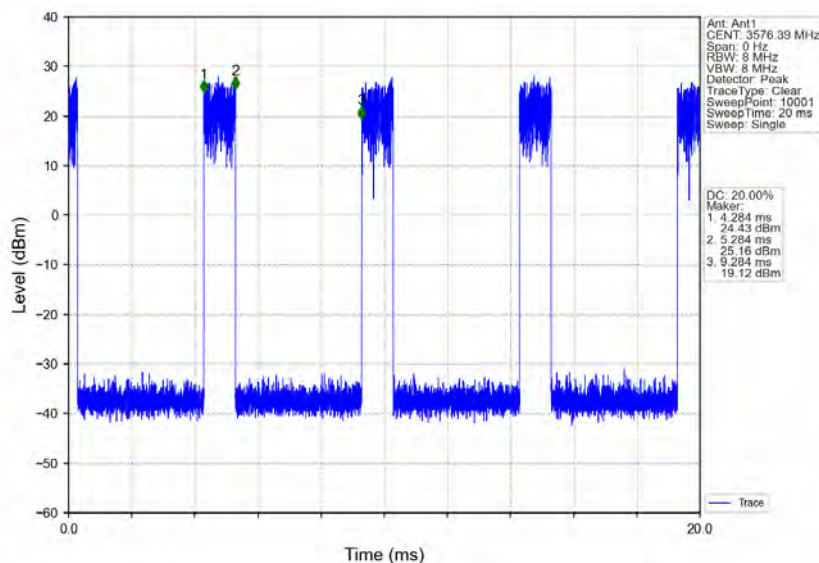
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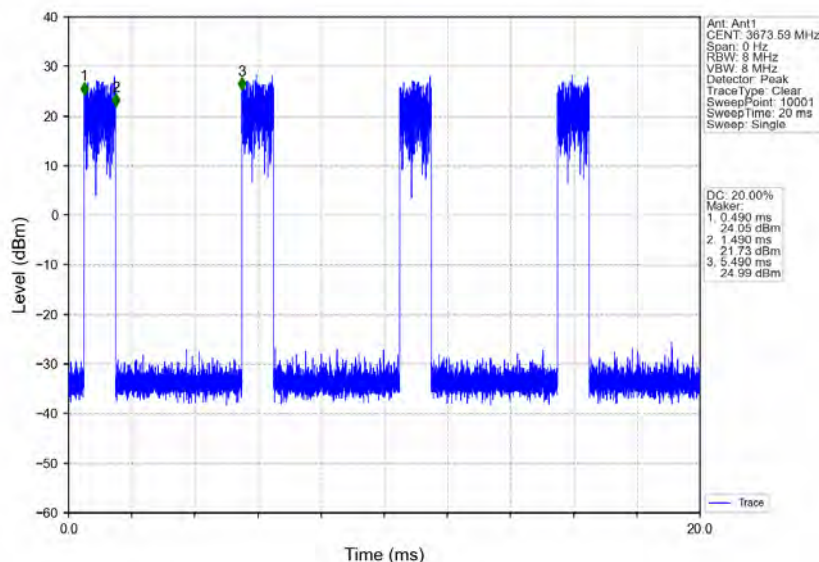
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n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM_256_QAM_3624.99MHz_Inner_1RB_Left



n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM_256_QAM_3624.99MHz_Inner_1RB_Right



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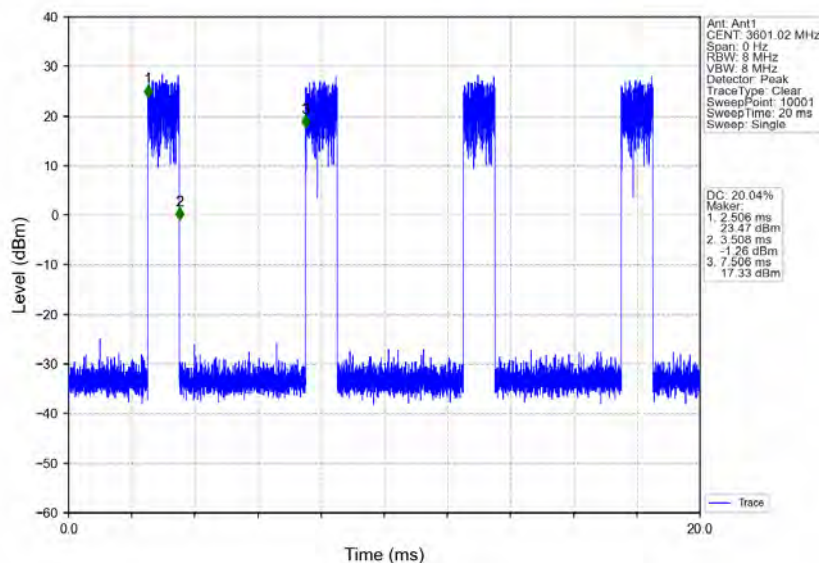
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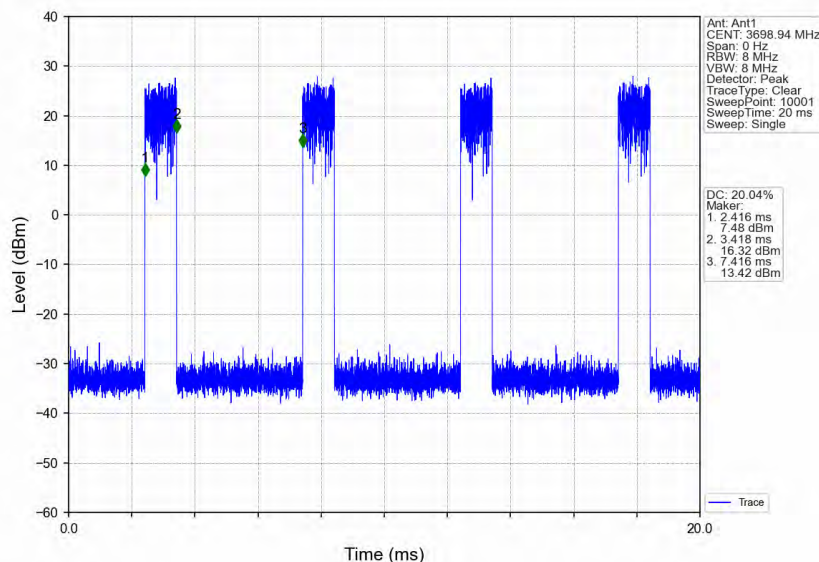
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n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM 256 QAM 3649.98MHz_Edge_1RB_Left



n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM 256 QAM 3649.98MHz_Edge_1RB_Right



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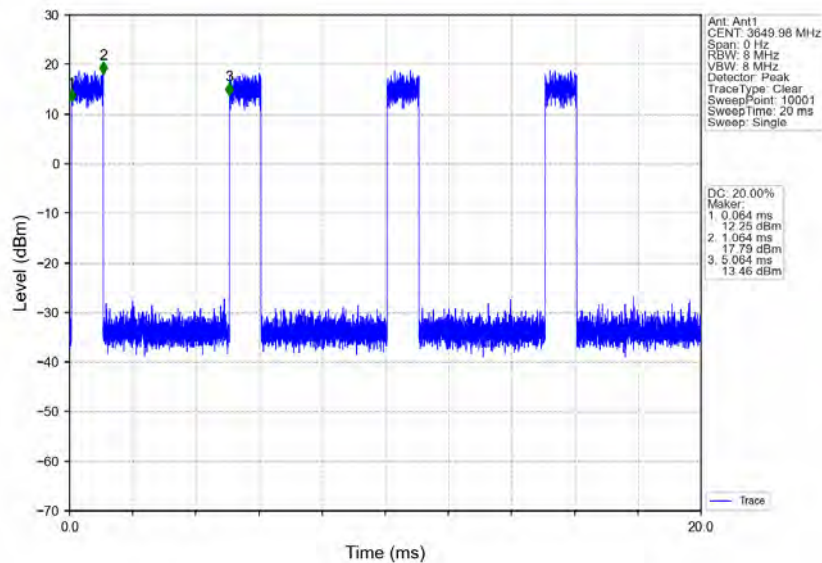
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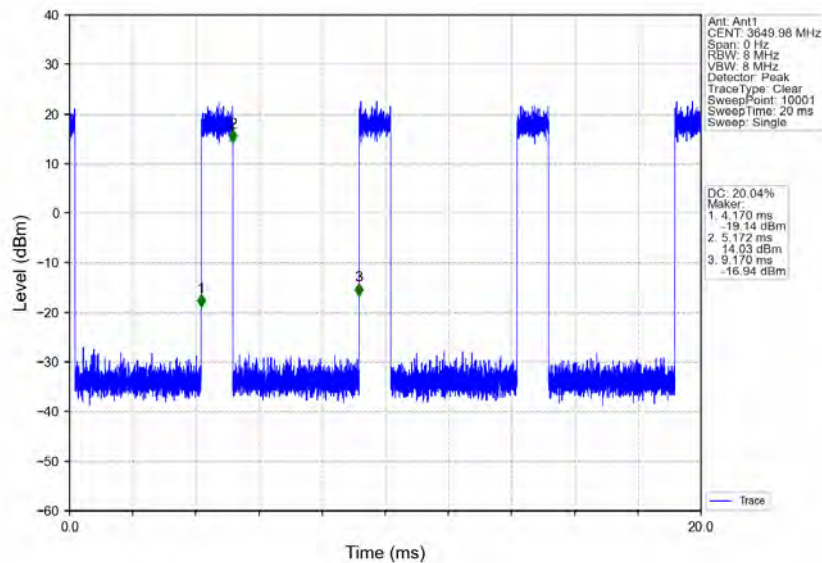
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n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM_256_QAM_3649.98MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM_256_QAM_3649.98MHz_Inner_Full



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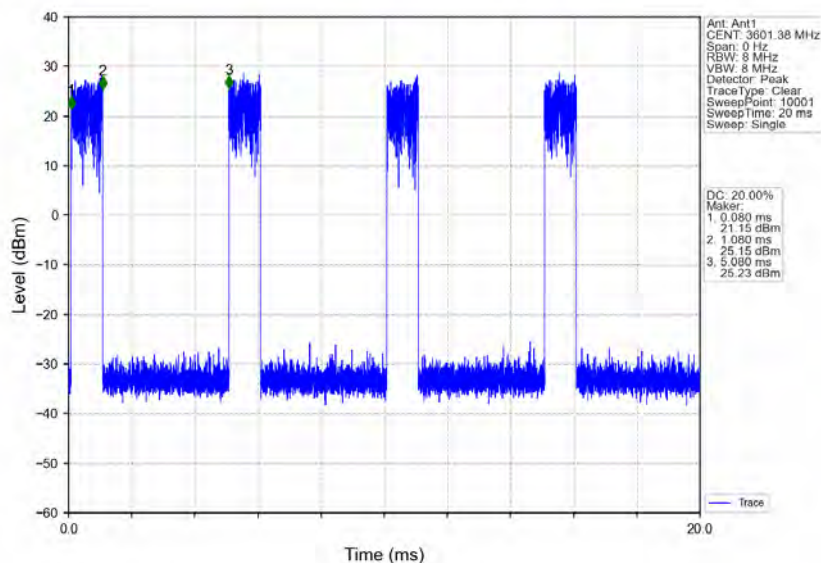
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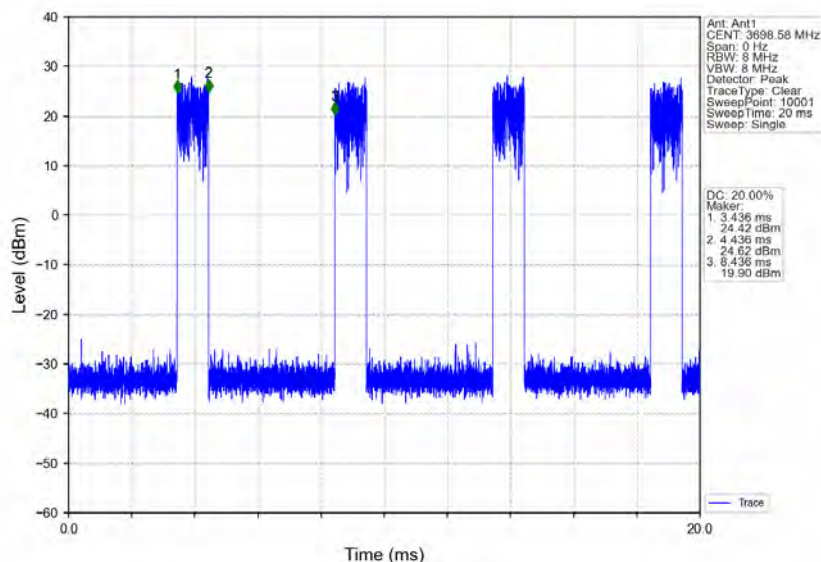
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n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM_256_QAM_3649.98MHz_Inner_1RB_Left



n78d_30kHz_MIMO_NTNV_100MHz_CP-OFDM_256_QAM_3649.98MHz_Inner_1RB_Right



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2. Effective (Isotropic) Radiated Power Output Data

2.1 30k_MIMO_10MHz_NTNV_EIRP

2.1.1 Test Result

5G NR n78d SCS=30kHz MIMO 10MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3555	Edge 1RB Left	18.66	19.10	21.90	32.98	33.45	36.23	-	Pass
		Edge 1RB Right	18.84	18.70	21.78	33.16	33.05	36.12	-	Pass
		Outer Full	18.60	19.02	21.83	32.92	33.37	36.16	-	Pass
		Inner Full	17.39	17.41	20.41	31.71	31.76	34.75	-	Pass
		Inner 1RB Left	18.32	18.16	21.25	32.64	32.51	35.59	-	Pass
		Inner 1RB Right	18.57	19.47	22.05	32.89	33.82	36.39	-	Pass
	3624.99	Edge 1RB Left	18.33	18.24	21.30	32.65	32.59	35.63	-	Pass
		Edge 1RB Right	17.68	18.94	21.37	32.00	33.29	35.70	-	Pass
		Outer Full	17.39	18.40	20.93	31.71	32.75	35.27	-	Pass
		Inner Full	18.44	17.79	21.14	32.76	32.14	35.47	-	Pass
		Inner 1RB Left	18.41	18.12	21.28	32.73	32.47	35.61	-	Pass
		Inner 1RB Right	18.10	18.37	21.25	32.42	32.72	35.58	-	Pass
	3694.98	Edge 1RB Left	18.13	18.04	21.10	32.45	32.39	35.43	-	Pass
		Edge 1RB Right	17.36	18.07	20.74	31.68	32.42	35.08	-	Pass
		Outer Full	17.40	18.39	20.93	31.72	32.74	35.27	-	Pass
		Inner Full	17.85	17.84	20.86	32.17	32.19	35.19	-	Pass
		Inner 1RB Left	17.15	16.61	19.90	31.47	30.96	34.23	-	Pass
		Inner 1RB Right	17.98	18.83	21.44	32.30	33.18	35.77	-	Pass
CP-OFDM 16 QAM	3555	Edge 1RB Left	19.05	18.16	21.64	33.37	32.51	35.97	-	Pass
		Edge 1RB Right	18.52	18.61	21.58	32.84	32.96	35.91	-	Pass
		Outer Full	18.54	18.40	21.48	32.86	32.75	35.82	-	Pass
		Inner Full	18.37	18.66	21.53	32.69	33.01	35.86	-	Pass
		Inner 1RB Left	18.98	17.55	21.33	33.30	31.90	35.67	-	Pass
		Inner 1RB Right	17.84	18.50	21.19	32.16	32.85	35.53	-	Pass
	3624.99	Edge 1RB Left	18.47	19.21	21.87	32.79	33.56	36.20	-	Pass
		Edge 1RB Right	17.96	17.90	20.94	32.28	32.25	35.28	-	Pass
		Outer Full	17.81	18.72	21.30	32.13	33.07	35.64	-	Pass
		Inner Full	18.67	17.64	21.20	32.99	31.99	35.53	-	Pass
		Inner 1RB Left	18.50	18.82	21.67	32.82	33.17	36.01	-	Pass
		Inner 1RB Right	17.91	18.16	21.05	32.23	32.51	35.38	-	Pass
	3694.98	Edge 1RB Left	18.14	17.70	20.94	32.46	32.05	35.27	-	Pass
		Edge 1RB Right	17.76	18.24	21.02	32.08	32.59	35.35	-	Pass
		Outer Full	18.01	16.93	20.51	32.33	31.28	34.85	-	Pass
		Inner Full	17.95	17.40	20.69	32.27	31.75	35.03	-	Pass
		Inner 1RB Left	18.30	17.62	20.98	32.62	31.97	35.32	-	Pass
		Inner 1RB Right	17.86	19.26	21.63	32.18	33.61	35.96	-	Pass
CP-OFDM 64 QAM	3555	Edge 1RB Left	18.30	17.78	21.06	32.62	32.13	35.39	-	Pass
		Edge 1RB Right	18.42	18.85	21.65	32.74	33.20	35.99	-	Pass
		Outer Full	18.33	18.73	21.54	32.65	33.08	35.88	-	Pass
		Inner Full	18.28	18.22	21.26	32.60	32.57	35.60	-	Pass
		Inner 1RB Left	18.25	18.87	21.58	32.57	33.22	35.92	-	Pass
		Inner 1RB Right	18.03	18.42	21.24	32.35	32.77	35.58	-	Pass

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	3624.99	Edge_1RB_Left	18.37	19.14	21.78	32.69	33.49	36.12	-	Pass
		Edge_1RB_Right	18.53	18.89	21.72	32.85	33.24	36.06	-	Pass
		Outer_Full	18.14	18.08	21.12	32.46	32.43	35.46	-	Pass
		Inner_Full	17.54	18.15	20.87	31.86	32.50	35.20	-	Pass
		Inner_1RB_Left	18.12	18.18	21.16	32.44	32.53	35.50	-	Pass
		Inner_1RB_Right	17.72	17.11	20.44	32.04	31.46	34.77	-	Pass
	3694.98	Edge_1RB_Left	18.31	17.97	21.15	32.63	32.32	35.49	-	Pass
		Edge_1RB_Right	17.50	17.14	20.33	31.82	31.49	34.67	-	Pass
		Outer_Full	17.66	18.28	20.99	31.98	32.63	35.33	-	Pass
		Inner_Full	17.75	17.91	20.84	32.07	32.26	35.18	-	Pass
		Inner_1RB_Left	17.03	17.29	20.17	31.35	31.64	34.51	-	Pass
		Inner_1RB_Right	16.89	17.35	20.14	31.21	31.70	34.47	-	Pass
CP-OFDM 256 QAM	3555	Edge_1RB_Left	17.71	17.32	20.53	32.03	31.67	34.86	-	Pass
		Edge_1RB_Right	19.03	18.35	21.71	33.35	32.70	36.05	-	Pass
		Outer_Full	18.57	18.58	21.59	32.89	32.93	35.92	-	Pass
		Inner_Full	18.27	18.20	21.25	32.59	32.55	35.58	-	Pass
		Inner_1RB_Left	17.84	18.08	20.97	32.16	32.43	35.31	-	Pass
		Inner_1RB_Right	18.13	18.70	21.43	32.45	33.05	35.77	-	Pass
	3624.99	Edge_1RB_Left	17.92	17.05	20.52	32.24	31.40	34.85	-	Pass
		Edge_1RB_Right	17.43	17.70	20.58	31.75	32.05	34.91	-	Pass
		Outer_Full	18.06	18.10	21.09	32.38	32.45	35.43	-	Pass
		Inner_Full	17.92	17.96	20.95	32.24	32.31	35.29	-	Pass
		Inner_1RB_Left	17.97	19.70	21.93	32.29	34.05	36.27	-	Pass
		Inner_1RB_Right	17.98	17.24	20.64	32.30	31.59	34.97	-	Pass
	3694.98	Edge_1RB_Left	17.92	17.69	20.82	32.24	32.04	35.15	-	Pass
		Edge_1RB_Right	17.77	17.12	20.47	32.09	31.47	34.80	-	Pass
		Outer_Full	18.20	16.87	20.60	32.52	31.22	34.93	-	Pass
		Inner_Full	17.81	17.37	20.61	32.13	31.72	34.94	-	Pass
		Inner_1RB_Left	18.41	17.53	21.00	32.73	31.88	35.34	-	Pass
		Inner_1RB_Right	17.61	17.58	20.61	31.93	31.93	34.94	-	Pass
Note1: Antenna Gain: Ant1: 14.32dBi; Ant2: 14.35dBi; Note2: EIRP Ant 1=Conducted Power 1+Ant Gain / EIRP Ant 2=Conducted Power 2+Ant Gain / Sum=EIRP Ant 1+EIRP Ant 2										

2.2 30k_MIMO_10MHz_NTNV_EIRP/10MHz

2.2.1 Test Result

5G NR n78d SCS=30kHz MIMO 10MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm/10MHz)			EIRP(dBm/10MHz)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3555	Edge 1RB Left	18.66	19.10	21.90	32.98	33.45	36.23	<=47	Pass
		Edge 1RB Right	18.84	18.70	21.78	33.16	33.05	36.12	<=47	Pass
		Outer Full	18.60	19.02	21.83	32.92	33.37	36.16	<=47	Pass
		Inner Full	17.39	17.41	20.41	31.71	31.76	34.75	<=47	Pass
		Inner 1RB Left	18.32	18.16	21.25	32.64	32.51	35.59	<=47	Pass
		Inner 1RB Right	18.57	19.47	22.05	32.89	33.82	36.39	<=47	Pass
	3624.99	Edge 1RB Left	18.33	18.24	21.30	32.65	32.59	35.63	<=47	Pass
		Edge 1RB Right	17.68	18.94	21.37	32.00	33.29	35.70	<=47	Pass
		Outer Full	17.39	18.40	20.93	31.71	32.75	35.27	<=47	Pass
		Inner Full	18.44	17.79	21.14	32.76	32.14	35.47	<=47	Pass



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	3694.98	Inner_1RB_Left	18.41	18.12	21.28	32.73	32.47	35.61	<=47	Pass
		Inner_1RB_Right	18.10	18.37	21.25	32.42	32.72	35.58	<=47	Pass
		Edge_1RB_Left	18.13	18.04	21.10	32.45	32.39	35.43	<=47	Pass
		Edge_1RB_Right	17.36	18.07	20.74	31.68	32.42	35.08	<=47	Pass
		Outer_Full	17.40	18.39	20.93	31.72	32.74	35.27	<=47	Pass
		Inner_Full	17.85	17.84	20.86	32.17	32.19	35.19	<=47	Pass
		Inner_1RB_Left	17.15	16.61	19.90	31.47	30.96	34.23	<=47	Pass
		Inner_1RB_Right	17.98	18.83	21.44	32.30	33.18	35.77	<=47	Pass
CP-OFDM 16 QAM	3555	Edge_1RB_Left	19.05	18.16	21.64	33.37	32.51	35.97	<=47	Pass
		Edge_1RB_Right	18.52	18.61	21.58	32.84	32.96	35.91	<=47	Pass
		Outer_Full	18.54	18.40	21.48	32.86	32.75	35.82	<=47	Pass
		Inner_Full	18.37	18.66	21.53	32.69	33.01	35.86	<=47	Pass
		Inner_1RB_Left	18.98	17.55	21.33	33.30	31.90	35.67	<=47	Pass
		Inner_1RB_Right	17.84	18.50	21.19	32.16	32.85	35.53	<=47	Pass
	3624.99	Edge_1RB_Left	18.47	19.21	21.87	32.79	33.56	36.20	<=47	Pass
		Edge_1RB_Right	17.96	17.90	20.94	32.28	32.25	35.28	<=47	Pass
		Outer_Full	17.81	18.72	21.30	32.13	33.07	35.64	<=47	Pass
		Inner_Full	18.67	17.64	21.20	32.99	31.99	35.53	<=47	Pass
		Inner_1RB_Left	18.50	18.82	21.67	32.82	33.17	36.01	<=47	Pass
		Inner_1RB_Right	17.91	18.16	21.05	32.23	32.51	35.38	<=47	Pass
	3694.98	Edge_1RB_Left	18.14	17.70	20.94	32.46	32.05	35.27	<=47	Pass
		Edge_1RB_Right	17.76	18.24	21.02	32.08	32.59	35.35	<=47	Pass
		Outer_Full	18.01	16.93	20.51	32.33	31.28	34.85	<=47	Pass
		Inner_Full	17.95	17.40	20.69	32.27	31.75	35.03	<=47	Pass
		Inner_1RB_Left	18.30	17.62	20.98	32.62	31.97	35.32	<=47	Pass
		Inner_1RB_Right	17.86	19.26	21.63	32.18	33.61	35.96	<=47	Pass
CP-OFDM 64 QAM	3555	Edge_1RB_Left	18.30	17.78	21.06	32.62	32.13	35.39	<=47	Pass
		Edge_1RB_Right	18.42	18.85	21.65	32.74	33.20	35.99	<=47	Pass
		Outer_Full	18.33	18.73	21.54	32.65	33.08	35.88	<=47	Pass
		Inner_Full	18.28	18.22	21.26	32.60	32.57	35.60	<=47	Pass
		Inner_1RB_Left	18.25	18.87	21.58	32.57	33.22	35.92	<=47	Pass
		Inner_1RB_Right	18.03	18.42	21.24	32.35	32.77	35.58	<=47	Pass
	3624.99	Edge_1RB_Left	18.37	19.14	21.78	32.69	33.49	36.12	<=47	Pass
		Edge_1RB_Right	18.53	18.89	21.72	32.85	33.24	36.06	<=47	Pass
		Outer_Full	18.14	18.08	21.12	32.46	32.43	35.46	<=47	Pass
		Inner_Full	17.54	18.15	20.87	31.86	32.50	35.20	<=47	Pass
		Inner_1RB_Left	18.12	18.18	21.16	32.44	32.53	35.50	<=47	Pass
		Inner_1RB_Right	17.72	17.11	20.44	32.04	31.46	34.77	<=47	Pass
	3694.98	Edge_1RB_Left	18.31	17.97	21.15	32.63	32.32	35.49	<=47	Pass
		Edge_1RB_Right	17.50	17.14	20.33	31.82	31.49	34.67	<=47	Pass
		Outer_Full	17.66	18.28	20.99	31.98	32.63	35.33	<=47	Pass
		Inner_Full	17.75	17.91	20.84	32.07	32.26	35.18	<=47	Pass
		Inner_1RB_Left	17.03	17.29	20.17	31.35	31.64	34.51	<=47	Pass
		Inner_1RB_Right	16.89	17.35	20.14	31.21	31.70	34.47	<=47	Pass
CP-OFDM 256 QAM	3555	Edge_1RB_Left	17.71	17.32	20.53	32.03	31.67	34.86	<=47	Pass
		Edge_1RB_Right	19.03	18.35	21.71	33.35	32.70	36.05	<=47	Pass
		Outer_Full	18.57	18.58	21.59	32.89	32.93	35.92	<=47	Pass
		Inner_Full	18.27	18.20	21.25	32.59	32.55	35.58	<=47	Pass
		Inner_1RB_Left	17.84	18.08	20.97	32.16	32.43	35.31	<=47	Pass
		Inner_1RB_Right	18.13	18.70	21.43	32.45	33.05	35.77	<=47	Pass
	3624.99	Edge_1RB_Left	17.92	17.05	20.52	32.24	31.40	34.85	<=47	Pass
		Edge_1RB_Right	17.43	17.70	20.58	31.75	32.05	34.91	<=47	Pass
		Outer_Full	18.06	18.10	21.09	32.38	32.45	35.43	<=47	Pass
		Inner_Full	17.92	17.96	20.95	32.24	32.31	35.29	<=47	Pass

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	3694.98	Inner 1RB Left	17.97	19.70	21.93	32.29	34.05	36.27	<=47	Pass
		Inner 1RB Right	17.98	17.24	20.64	32.30	31.59	34.97	<=47	Pass
		Edge 1RB Left	17.92	17.69	20.82	32.24	32.04	35.15	<=47	Pass
		Edge 1RB Right	17.77	17.12	20.47	32.09	31.47	34.80	<=47	Pass
		Outer Full	18.20	16.87	20.60	32.52	31.22	34.93	<=47	Pass
		Inner Full	17.81	17.37	20.61	32.13	31.72	34.94	<=47	Pass
		Inner 1RB Left	18.41	17.53	21.00	32.73	31.88	35.34	<=47	Pass
		Inner 1RB Right	17.61	17.58	20.61	31.93	31.93	34.94	<=47	Pass

Note1: Antenna Gain: Ant1: 14.32dBi; Ant2: 14.35dBi;
Note2: EIRP Ant 1=Conducted Power 1+Ant Gain / EIRP Ant 2=Conducted Power 2+Ant Gain / Sum=EIRP Ant 1+EIRP Ant 2

2.3 30k_MIMO_10MHz_NTNV_PSD

2.3.1 Test Result

5G NR n78d SCS=30kHz MIMO 10MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted PSD(dBm/MHz)			E.I.R.PSD(dBm/MHz)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3555	Edge 1RB Left	19.18	18.69	21.95	33.50	33.04	36.29	<=37	Pass
		Edge 1RB Right	18.99	20.06	22.57	33.31	34.41	36.91	<=37	Pass
		Outer Full	10.53	10.63	13.59	24.85	24.98	27.93	<=37	Pass
		Inner Full	13.31	14.14	16.76	27.63	28.49	31.09	<=37	Pass
		Inner 1RB Left	18.65	19.30	22.00	32.97	33.65	36.33	<=37	Pass
		Inner 1RB Right	19.03	19.49	22.28	33.35	33.84	36.61	<=37	Pass
	3624.99	Edge 1RB Left	17.45	20.78	22.44	31.77	35.13	36.78	<=37	Pass
		Edge 1RB Right	18.49	18.62	21.57	32.81	32.97	35.90	<=37	Pass
		Outer Full	10.26	11.52	13.95	24.58	25.87	28.28	<=37	Pass
		Inner Full	13.45	13.28	16.38	27.77	27.63	30.71	<=37	Pass
		Inner 1RB Left	18.84	18.40	21.64	33.16	32.75	35.97	<=37	Pass
		Inner 1RB Right	18.25	19.32	21.83	32.57	33.67	36.17	<=37	Pass
	3694.98	Edge 1RB Left	18.77	19.38	22.10	33.09	33.73	36.43	<=37	Pass
		Edge 1RB Right	18.07	19.62	21.92	32.39	33.97	36.26	<=37	Pass
		Outer Full	10.01	10.87	13.47	24.33	25.22	27.81	<=37	Pass
		Inner Full	13.17	13.15	16.17	27.49	27.50	30.51	<=37	Pass
		Inner 1RB Left	19.04	17.79	21.47	33.36	32.14	35.80	<=37	Pass
		Inner 1RB Right	18.29	19.00	21.67	32.61	33.35	36.01	<=37	Pass
CP-OFDM 16 QAM	3555	Edge 1RB Left	18.37	19.04	21.73	32.69	33.39	36.06	<=37	Pass
		Edge 1RB Right	18.72	19.39	22.08	33.04	33.74	36.41	<=37	Pass
		Outer Full	10.75	12.10	14.49	25.07	26.45	28.82	<=37	Pass
		Inner Full	13.52	14.49	17.04	27.84	28.84	31.38	<=37	Pass
		Inner 1RB Left	18.88	19.40	22.16	33.20	33.75	36.49	<=37	Pass
		Inner 1RB Right	19.25	19.62	22.45	33.57	33.97	36.78	<=37	Pass
	3624.99	Edge 1RB Left	18.11	18.45	21.29	32.43	32.80	35.63	<=37	Pass
		Edge 1RB Right	18.75	18.65	21.71	33.07	33.00	36.05	<=37	Pass
		Outer Full	11.11	10.75	13.94	25.43	25.10	28.28	<=37	Pass
		Inner Full	12.67	13.63	16.19	26.99	27.98	30.52	<=37	Pass
		Inner 1RB Left	18.69	19.33	22.03	33.01	33.68	36.37	<=37	Pass
		Inner 1RB Right	19.53	19.24	22.40	33.85	33.59	36.73	<=37	Pass
	3694.98	Edge 1RB Left	18.83	18.62	21.74	33.15	32.97	36.07	<=37	Pass
		Edge 1RB Right	18.36	19.38	21.91	32.68	33.73	36.25	<=37	Pass
	3694.98	Outer Full	9.82	10.96	13.44	24.14	25.31	27.77	<=37	Pass



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CP-OFDM 64 QAM		Inner Full	12.76	13.96	16.41	27.08	28.31	30.75	<=37	Pass
		Inner 1RB Left	18.47	19.15	21.83	32.79	33.50	36.17	<=37	Pass
		Inner 1RB Right	17.58	19.36	21.57	31.90	33.71	35.91	<=37	Pass
	3555	Edge 1RB Left	19.13	19.39	22.27	33.45	33.74	36.61	<=37	Pass
		Edge 1RB Right	18.60	19.76	22.23	32.92	34.11	36.57	<=37	Pass
		Outer Full	10.28	11.87	14.16	24.60	26.22	28.50	<=37	Pass
		Inner Full	13.24	14.27	16.80	27.56	28.62	31.13	<=37	Pass
		Inner 1RB Left	18.78	19.22	22.02	33.10	33.57	36.35	<=37	Pass
		Inner 1RB Right	18.81	19.84	22.37	33.13	34.19	36.70	<=37	Pass
	3624.99	Edge 1RB Left	18.70	19.54	22.15	33.02	33.89	36.49	<=37	Pass
		Edge 1RB Right	18.54	19.02	21.80	32.86	33.37	36.13	<=37	Pass
		Outer Full	9.94	10.41	13.19	24.26	24.76	27.53	<=37	Pass
		Inner Full	13.17	13.58	16.39	27.49	27.93	30.73	<=37	Pass
		Inner 1RB Left	18.72	19.85	22.33	33.04	34.20	36.67	<=37	Pass
		Inner 1RB Right	18.89	19.46	22.19	33.21	33.81	36.53	<=37	Pass
	3694.98	Edge 1RB Left	17.78	19.87	21.96	32.10	34.22	36.30	<=37	Pass
		Edge 1RB Right	18.73	17.92	21.35	33.05	32.27	35.69	<=37	Pass
		Outer Full	9.48	10.97	13.30	23.80	25.32	27.64	<=37	Pass
		Inner Full	12.56	13.55	16.09	26.88	27.90	30.43	<=37	Pass
		Inner 1RB Left	18.51	19.18	21.87	32.83	33.53	36.20	<=37	Pass
		Inner 1RB Right	18.94	18.97	21.97	33.26	33.32	36.30	<=37	Pass
CP-OFDM 256 QAM	3555	Edge 1RB Left	18.15	19.34	21.80	32.47	33.69	36.13	<=37	Pass
		Edge 1RB Right	19.13	19.81	22.49	33.45	34.16	36.83	<=37	Pass
		Outer Full	10.44	11.71	14.13	24.76	26.06	28.47	<=37	Pass
		Inner Full	13.94	14.80	17.40	28.26	29.15	31.74	<=37	Pass
		Inner 1RB Left	18.22	19.21	21.75	32.54	33.56	36.09	<=37	Pass
		Inner 1RB Right	18.93	19.36	22.16	33.25	33.71	36.50	<=37	Pass
	3624.99	Edge 1RB Left	18.63	18.72	21.69	32.95	33.07	36.02	<=37	Pass
		Edge 1RB Right	19.06	18.09	21.61	33.38	32.44	35.95	<=37	Pass
		Outer Full	9.56	11.75	13.80	23.88	26.10	28.14	<=37	Pass
		Inner Full	13.50	12.94	16.24	27.82	27.29	30.57	<=37	Pass
		Inner 1RB Left	19.27	19.23	22.26	33.59	33.58	36.60	<=37	Pass
		Inner 1RB Right	18.74	18.51	21.64	33.06	32.86	35.97	<=37	Pass
	3694.98	Edge 1RB Left	17.50	18.08	20.81	31.82	32.43	35.15	<=37	Pass
		Edge 1RB Right	17.92	19.50	21.79	32.24	33.85	36.13	<=37	Pass
		Outer Full	9.49	11.15	13.41	23.81	25.50	27.75	<=37	Pass
		Inner Full	12.53	13.97	16.32	26.85	28.32	30.66	<=37	Pass
		Inner 1RB Left	18.31	18.33	21.33	32.63	32.68	35.67	<=37	Pass
		Inner 1RB Right	18.56	18.67	21.63	32.88	33.02	35.96	<=37	Pass

Note1: Antenna Gain: Ant1: 14.32dBi; Ant2: 14.35dBi;
Note2: EIRP Ant 1=Conducted Power 1+Ant Gain / EIRP Ant 2=Conducted Power 2+Ant Gain / Sum=EIRP Ant 1+EIRP Ant 2



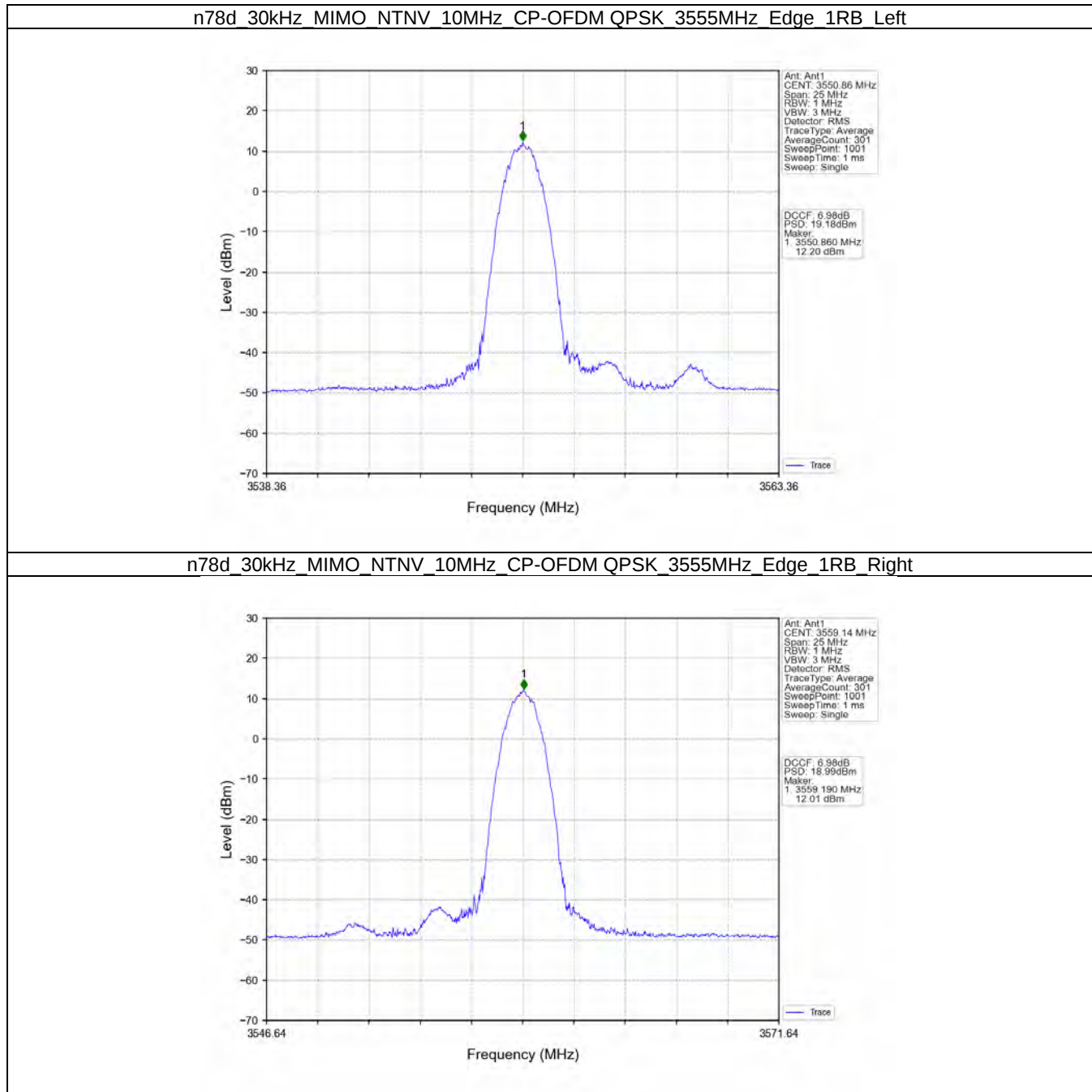
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2.3.2 Test Graph for ANT1



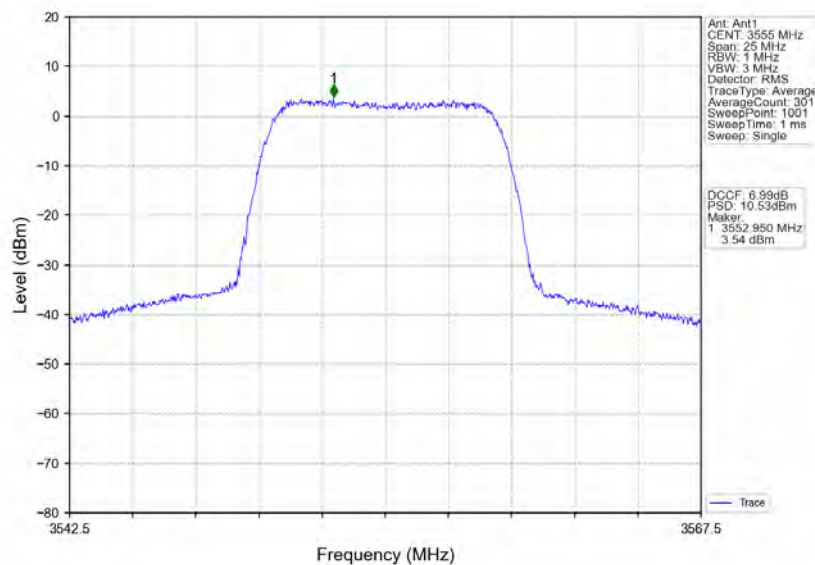
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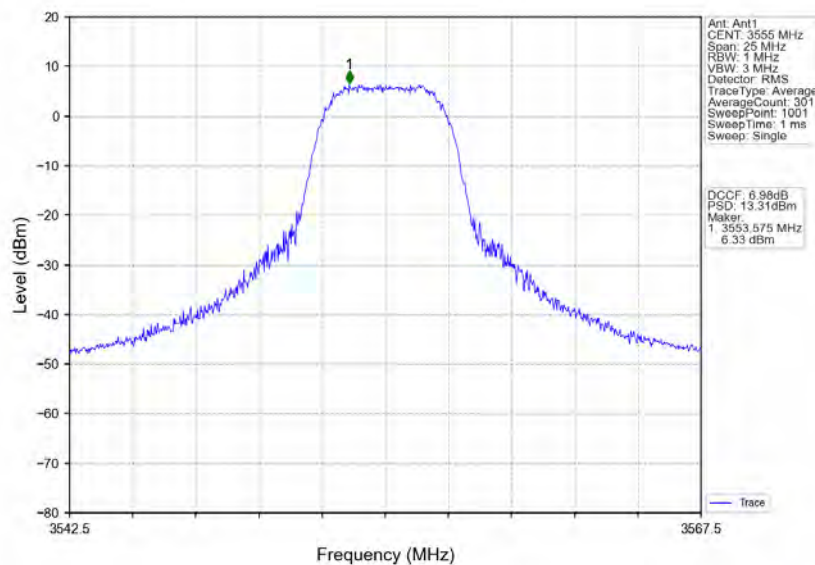
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n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Inner_Full



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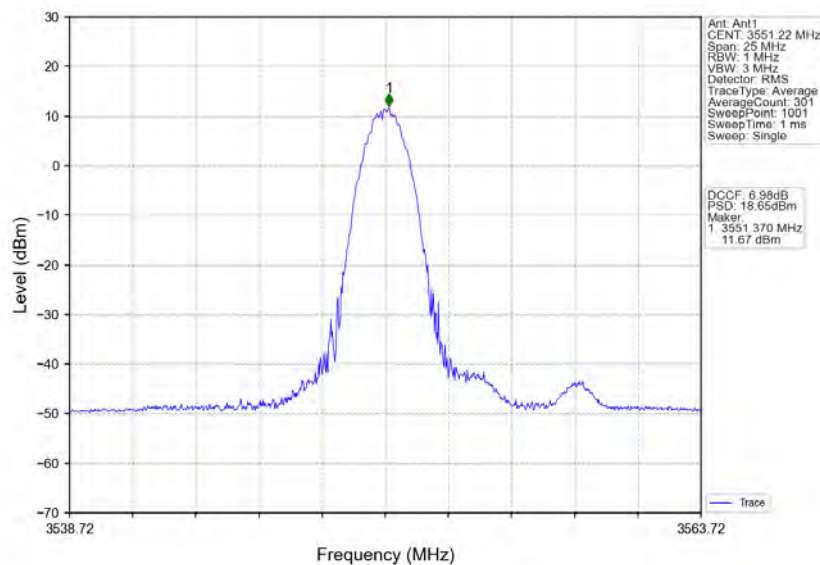
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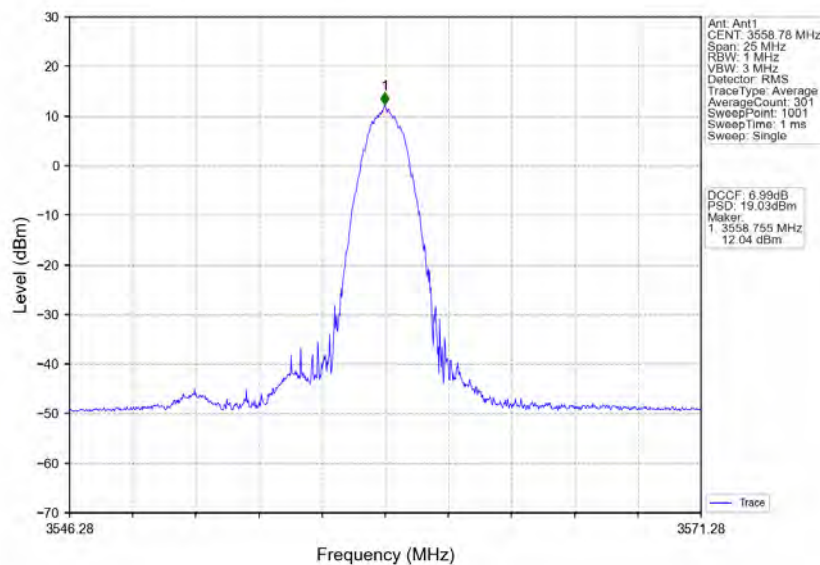
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n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Inner_1RB_Left



n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Inner_1RB_Right



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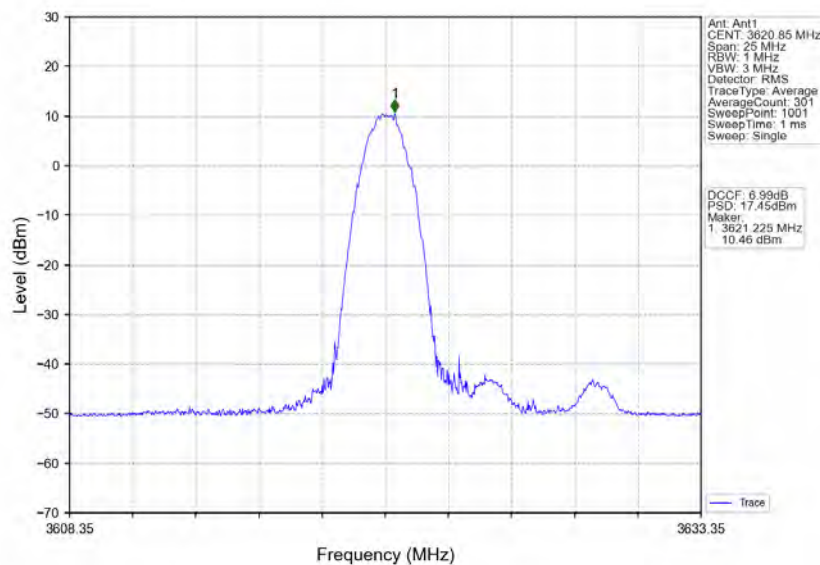
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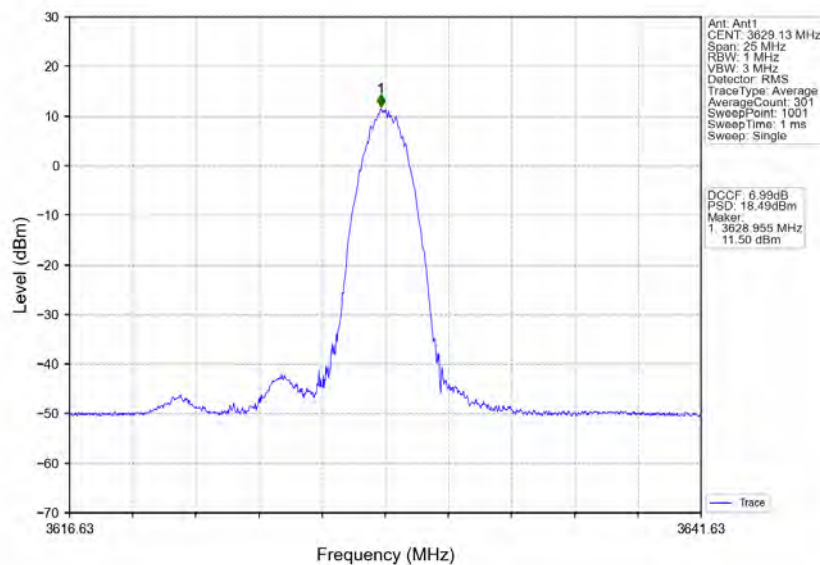
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n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM_QPSK_3624.99MHz_Edge_1RB_Left



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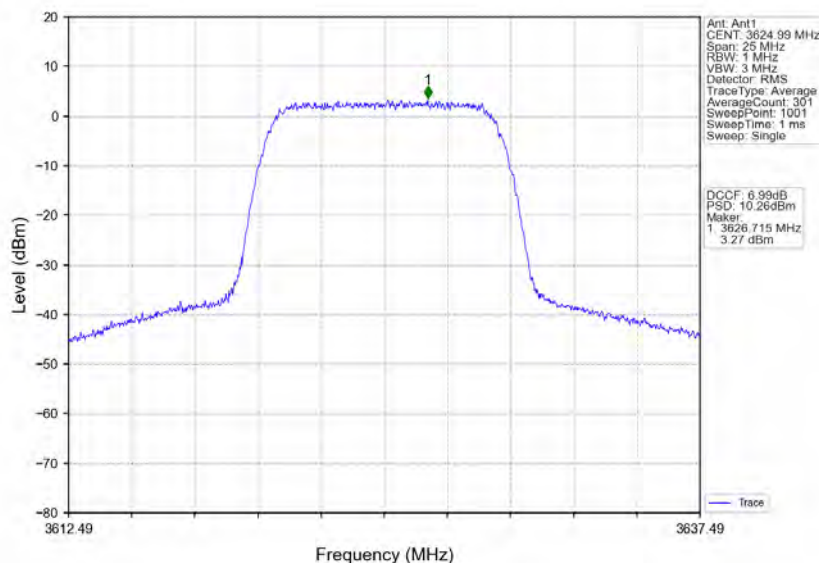
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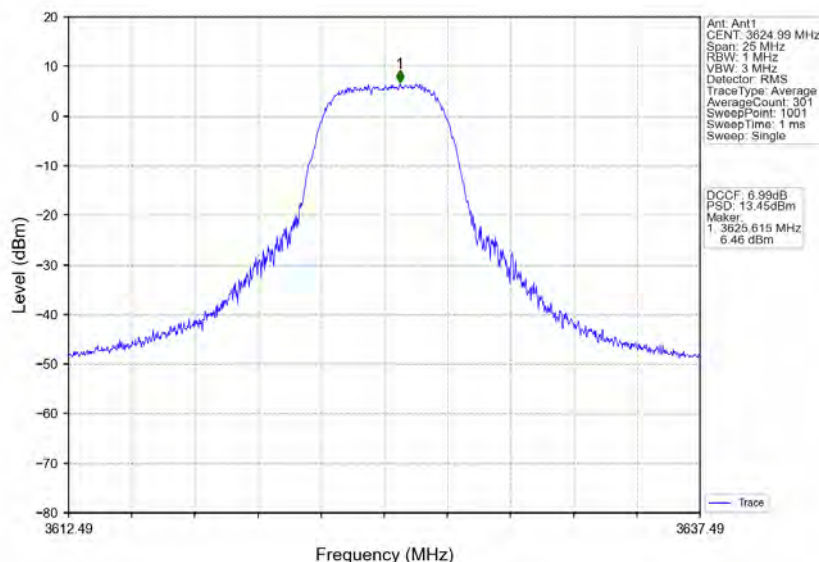
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n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM_QPSK_3624.99MHz_Outer_Full



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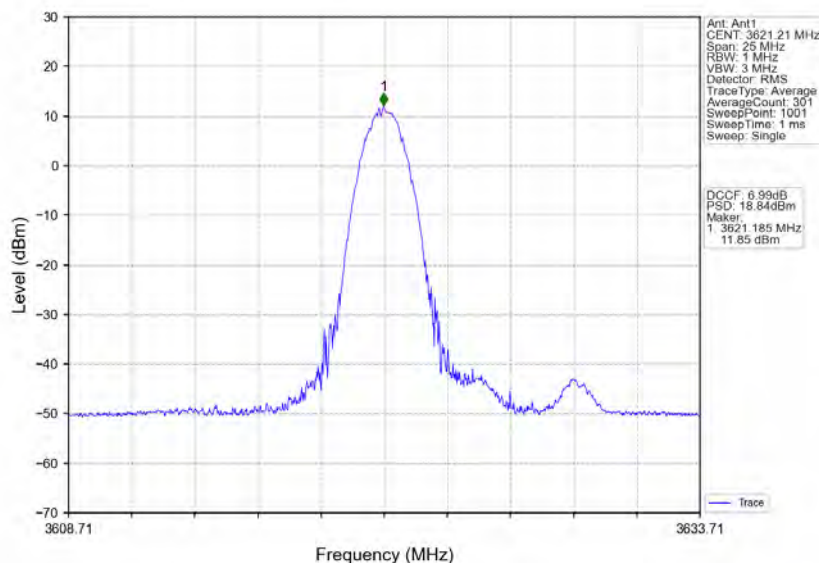
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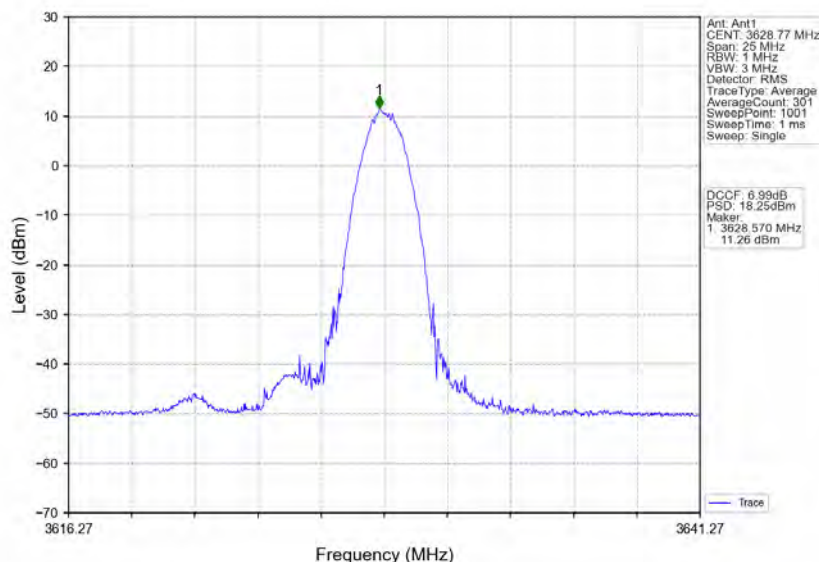
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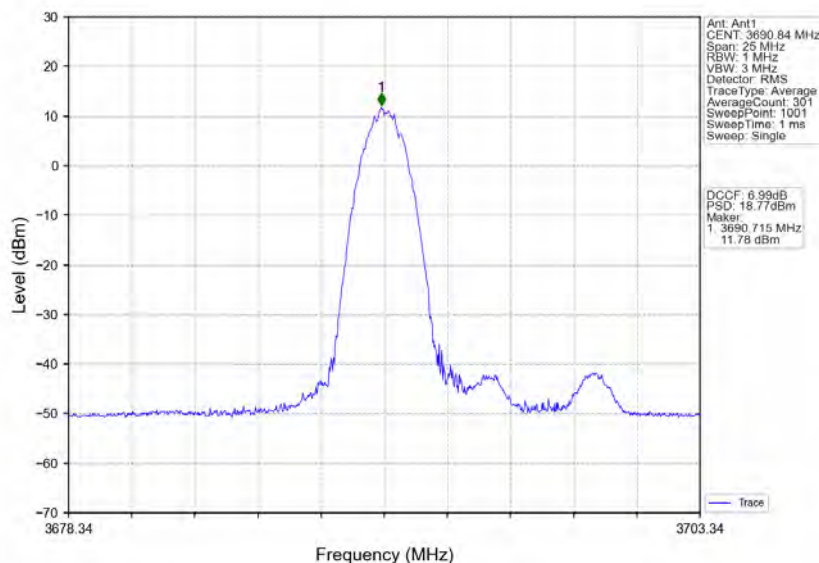
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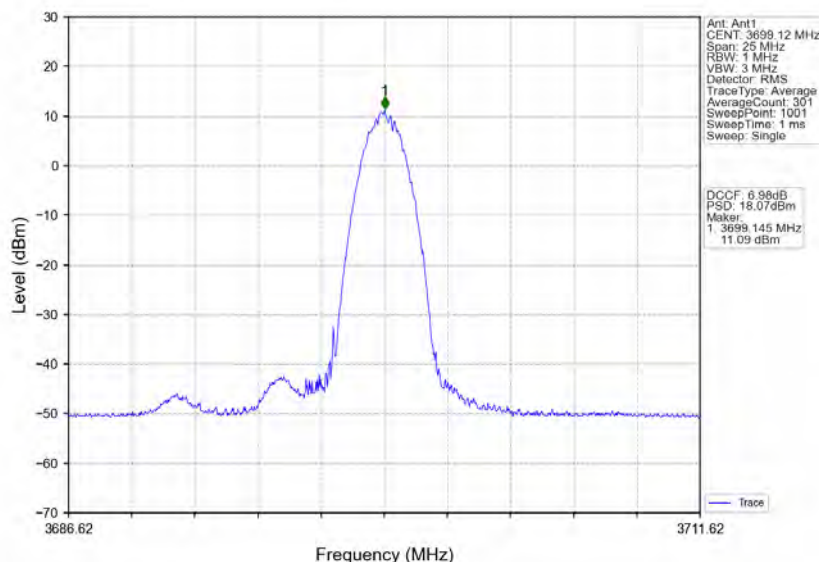
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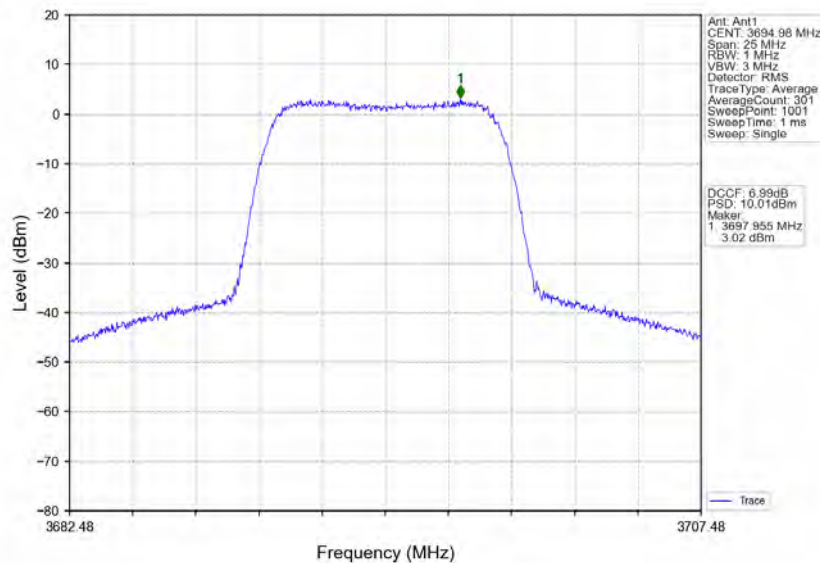
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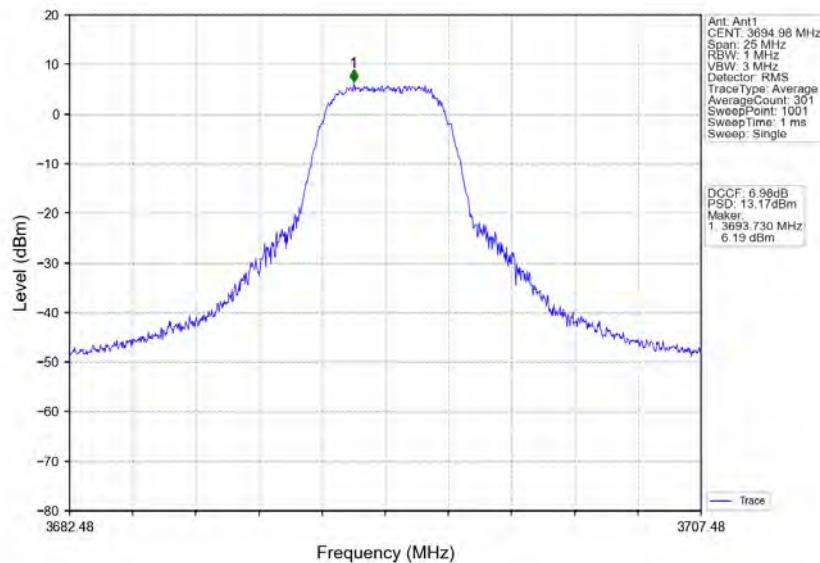
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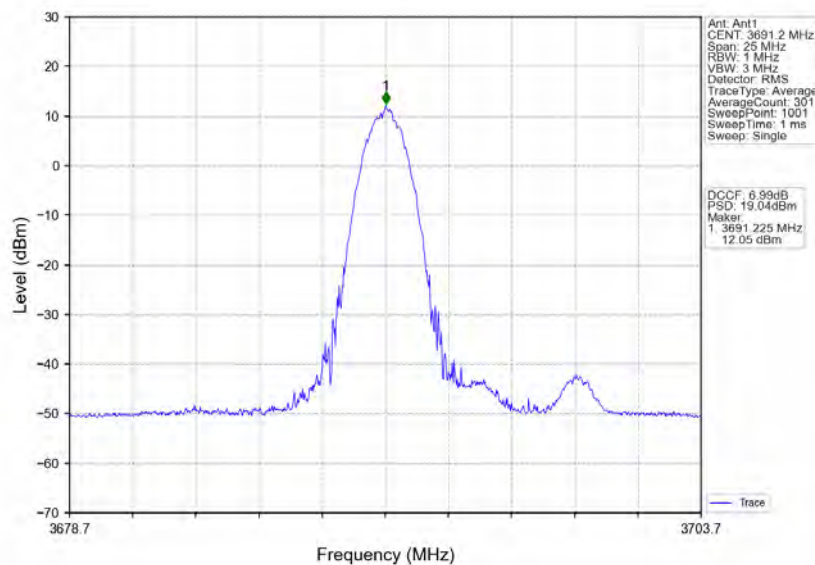
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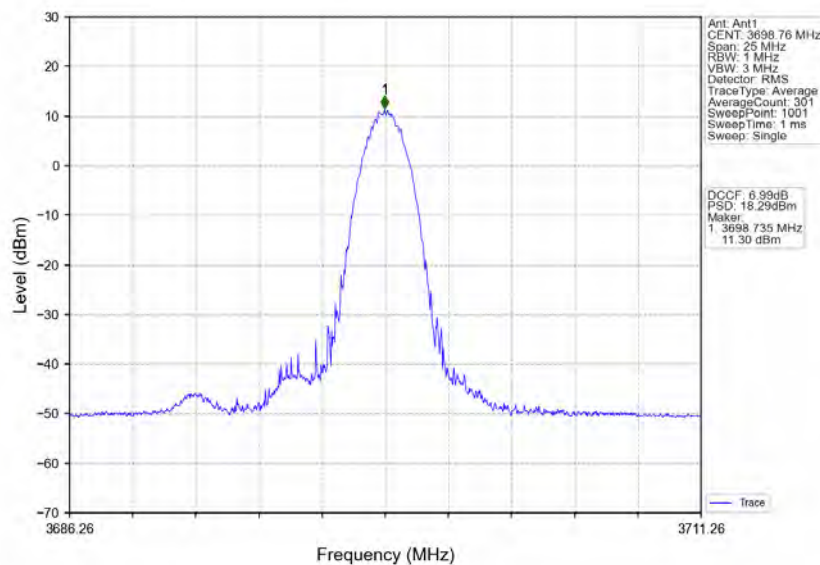
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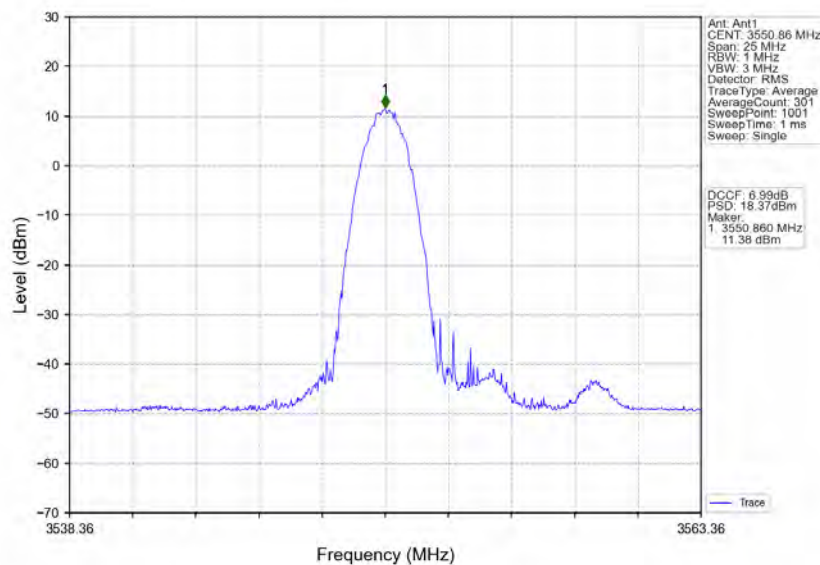
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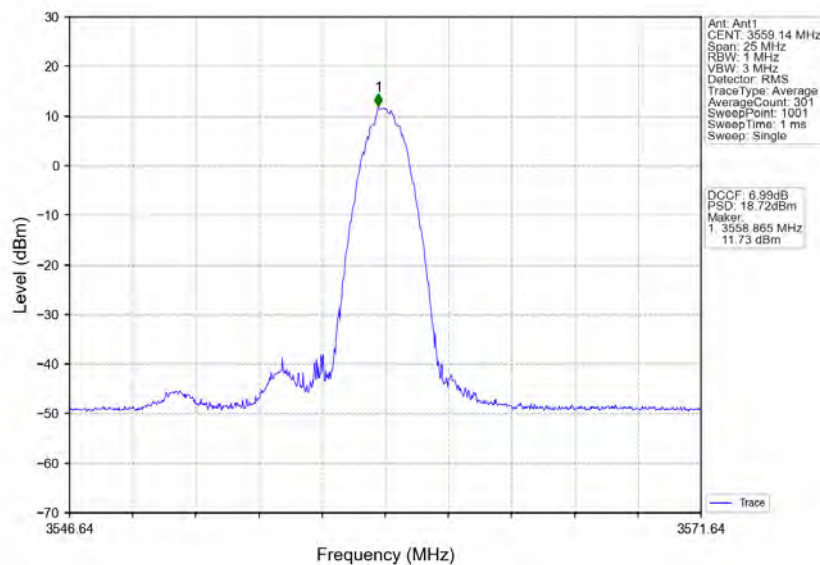
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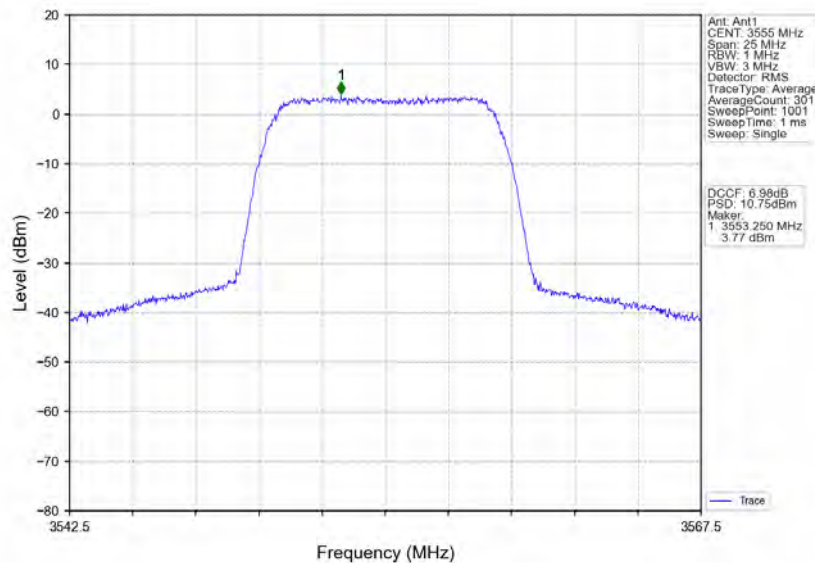
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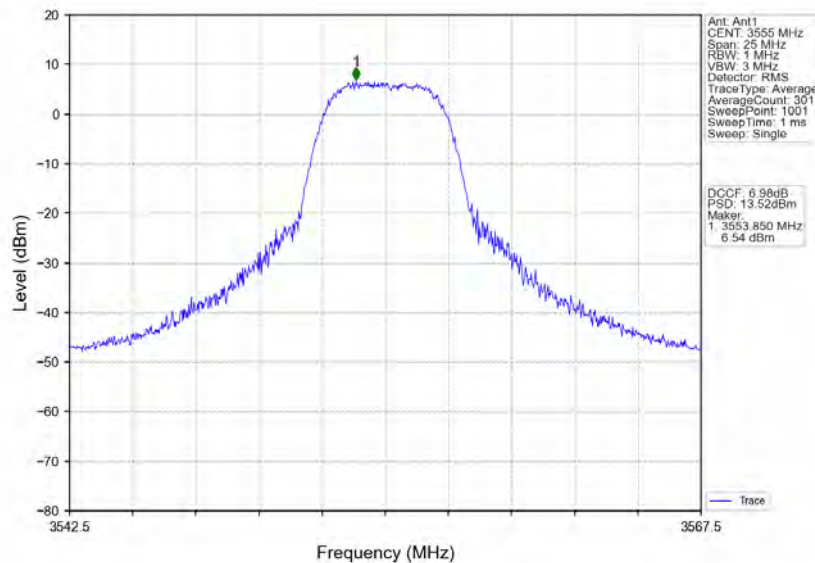
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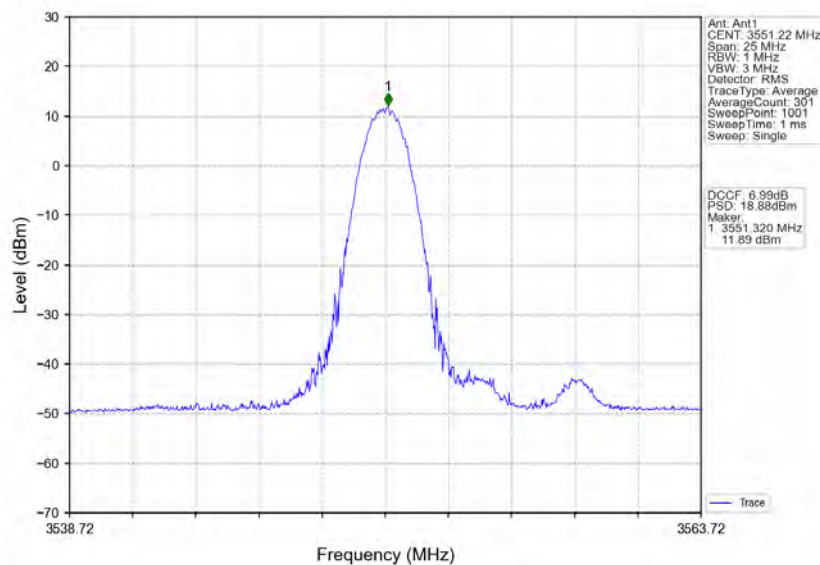
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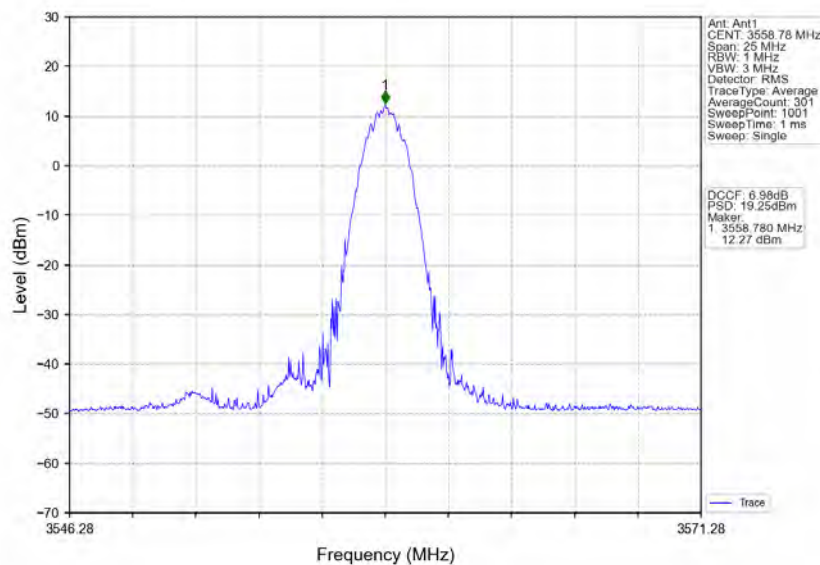
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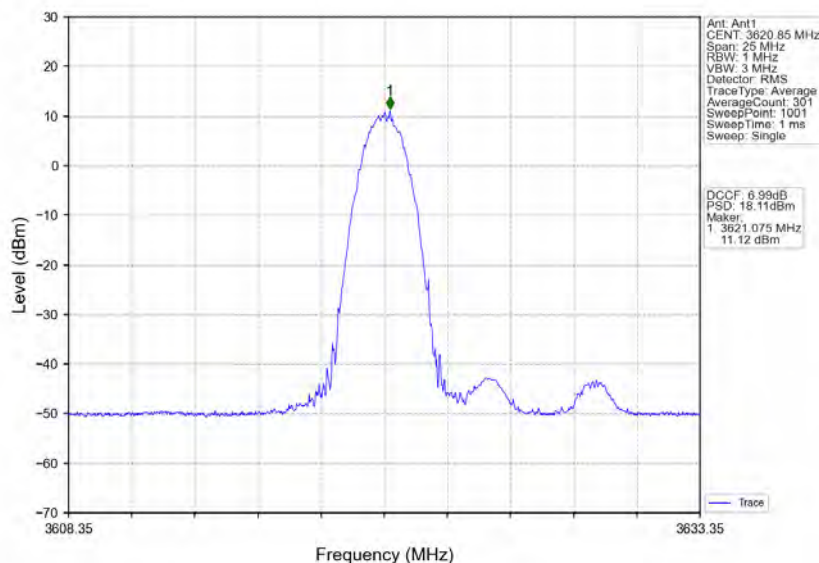
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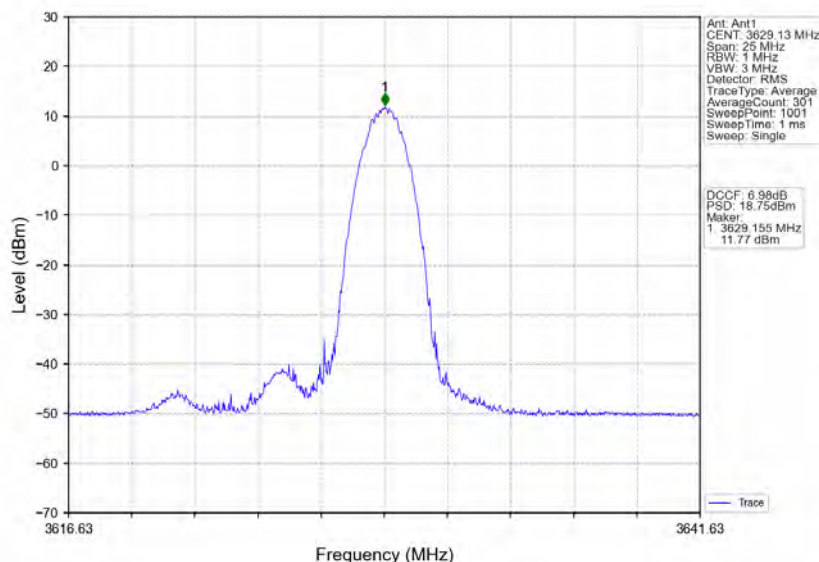
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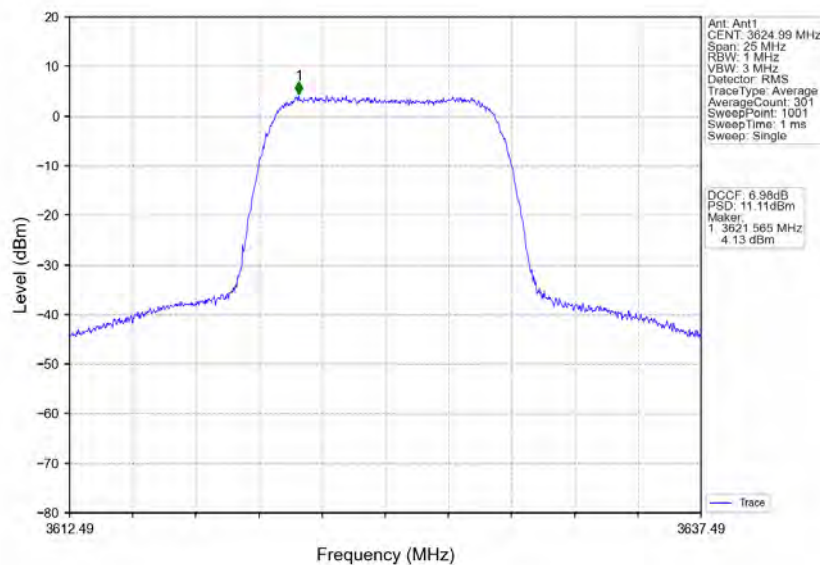
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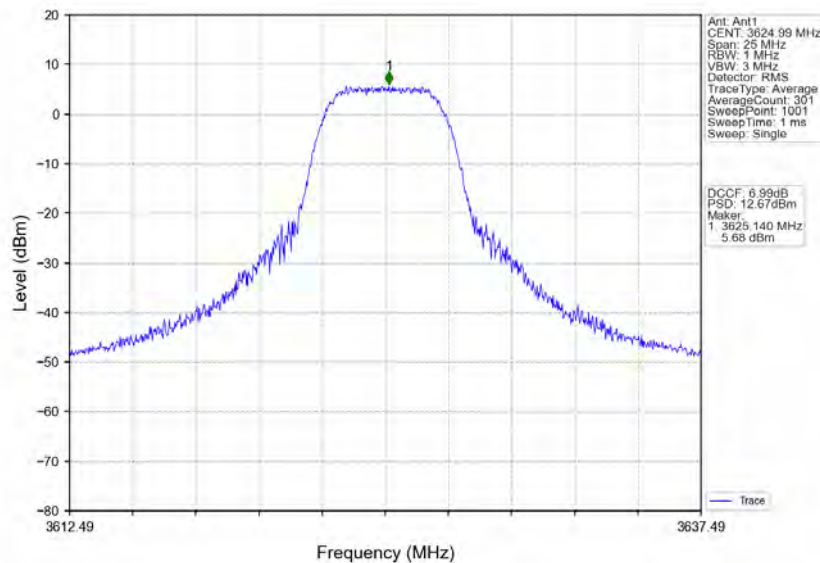
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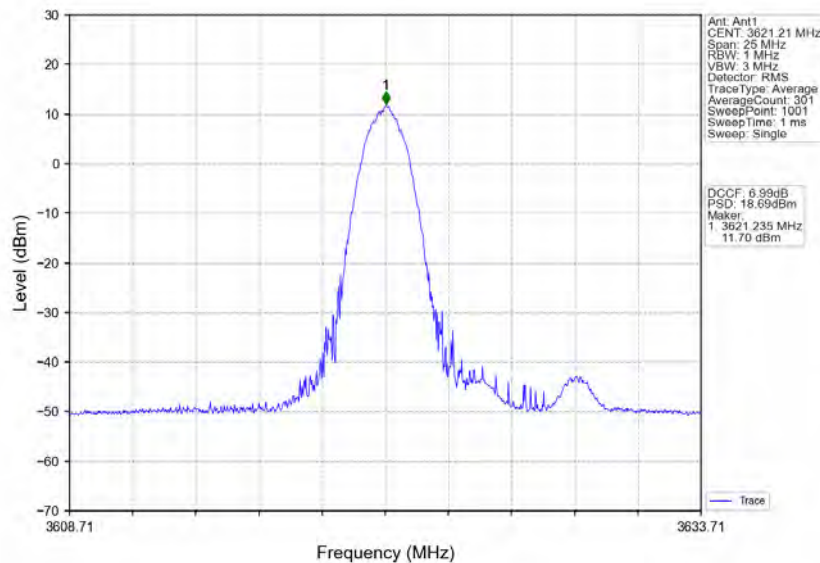
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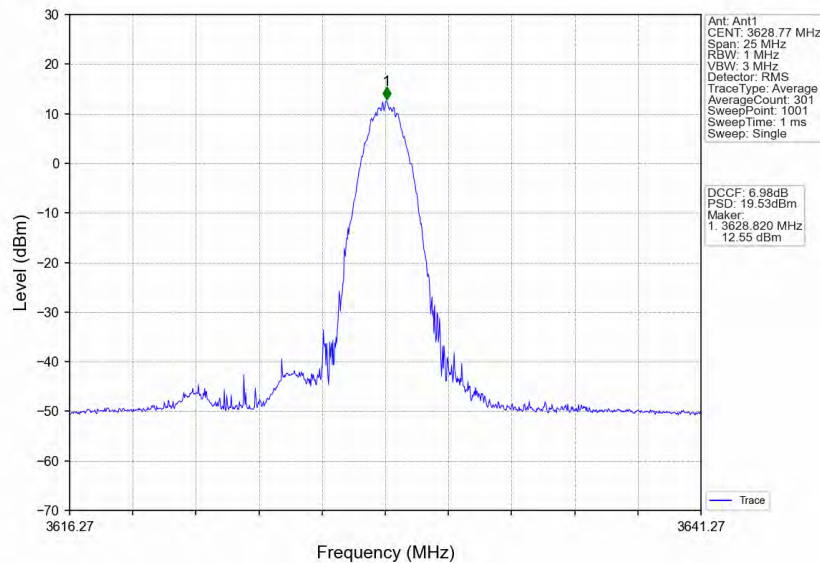
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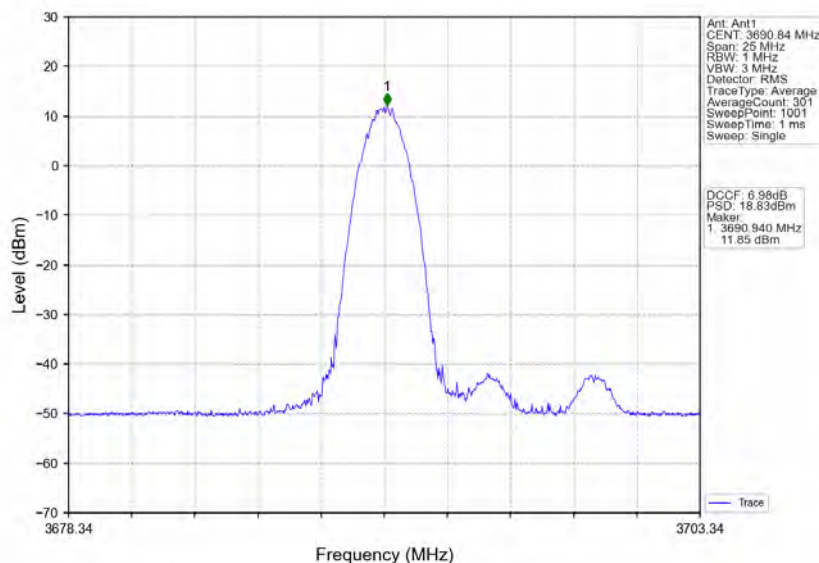
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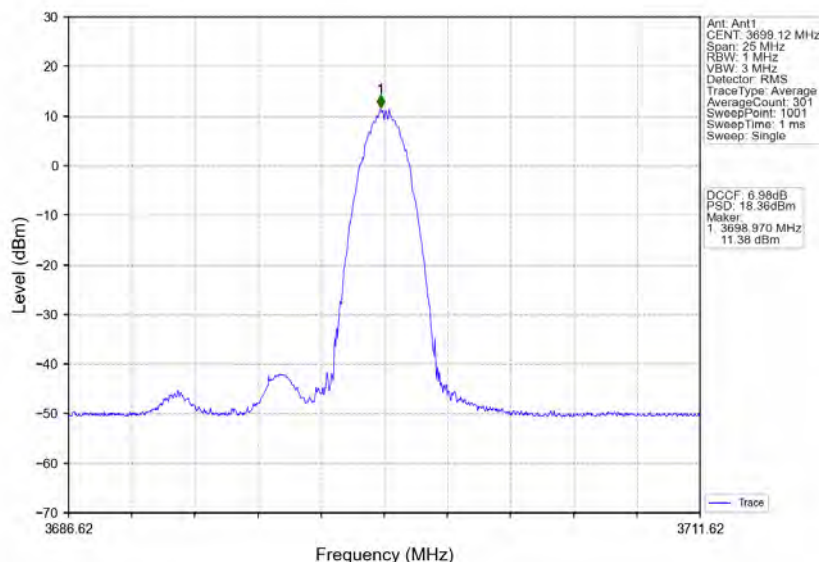
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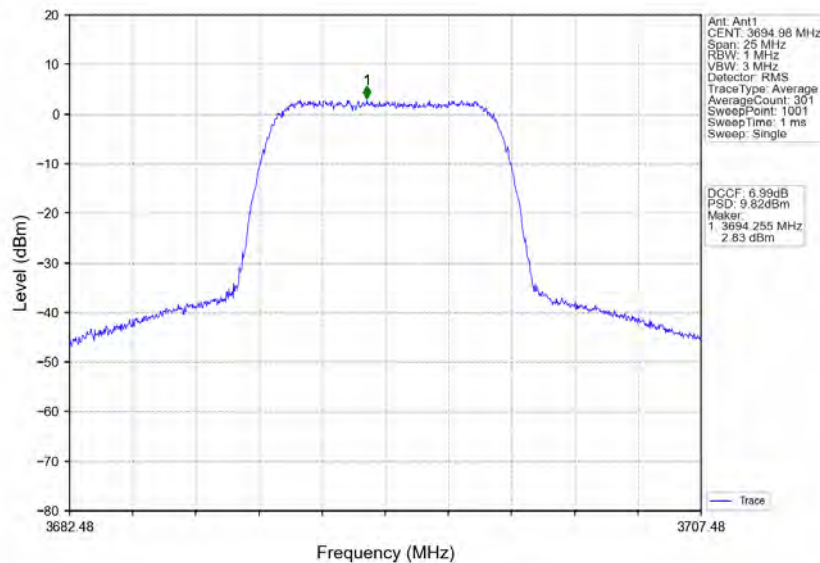
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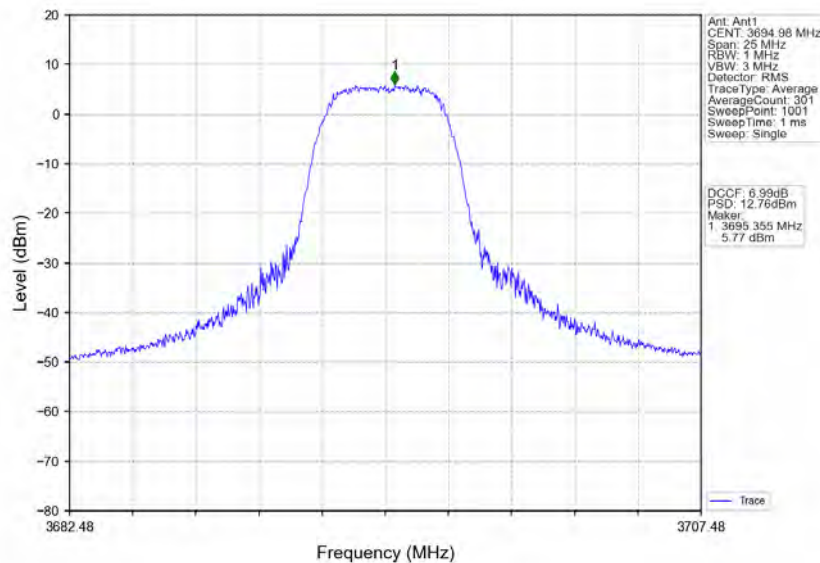
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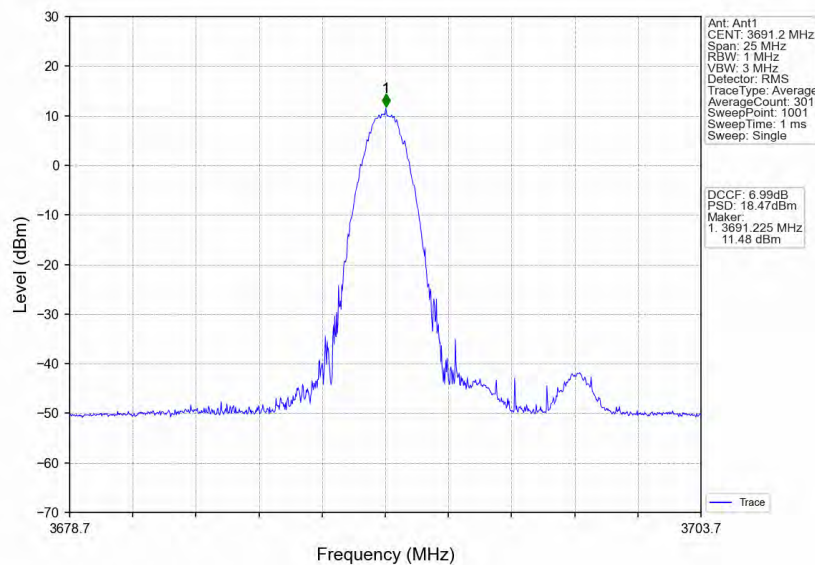
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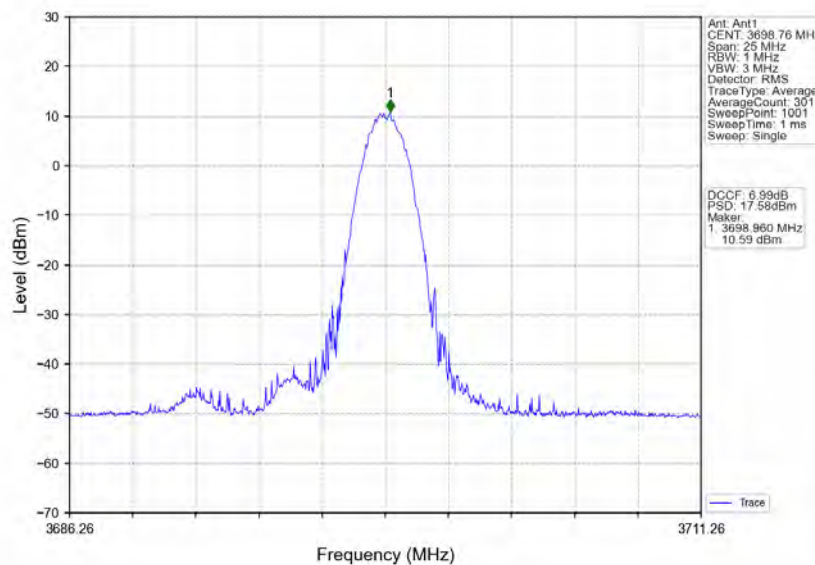
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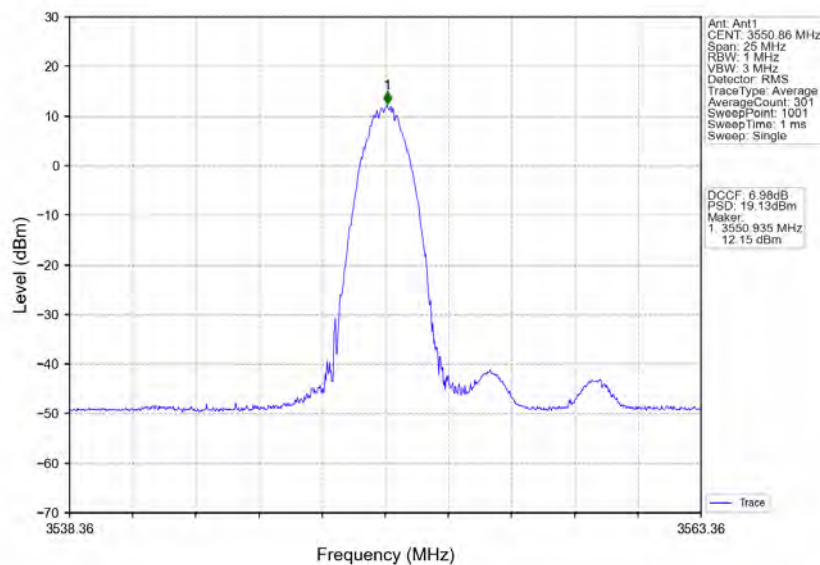
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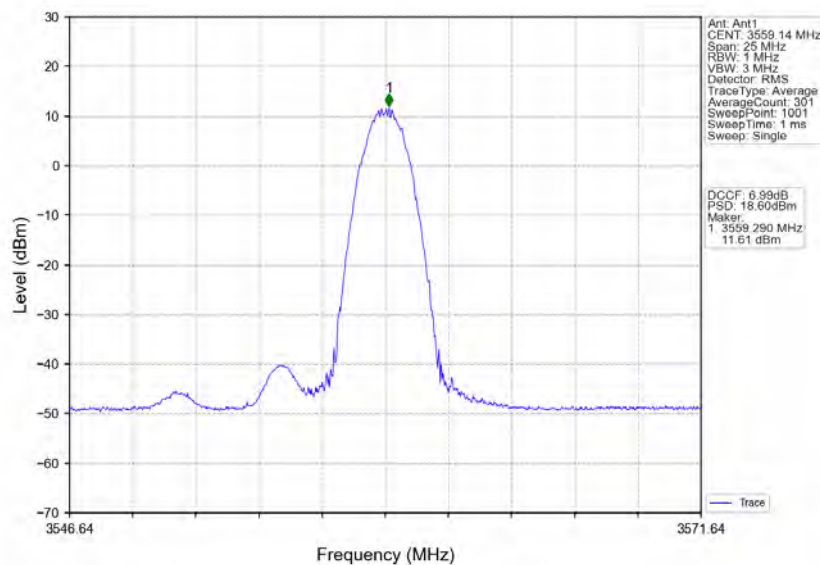
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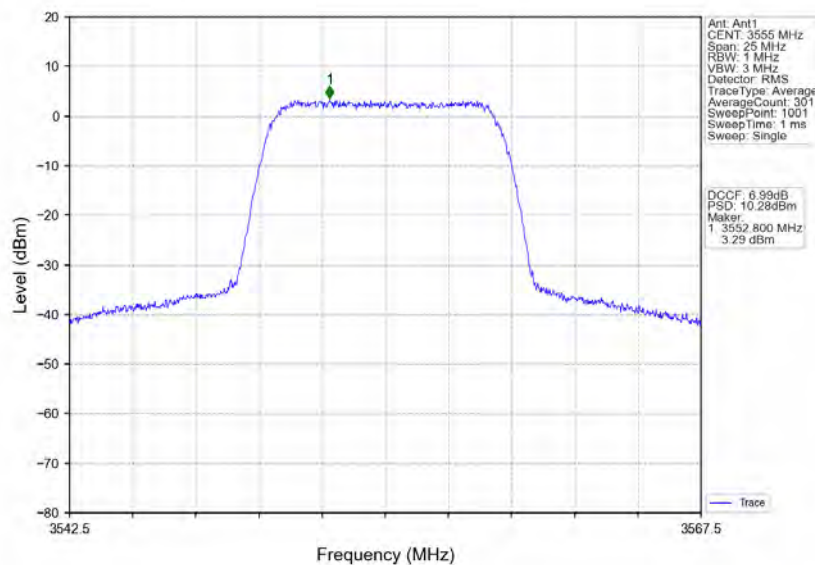
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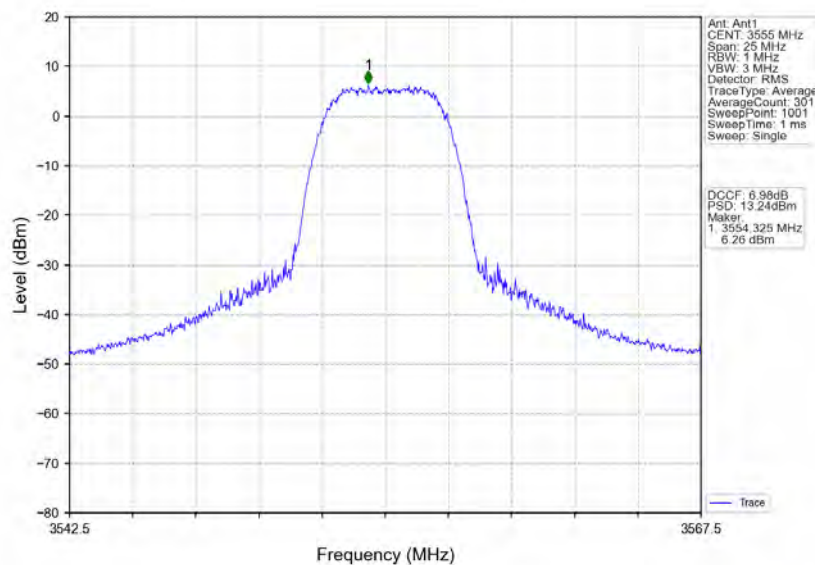
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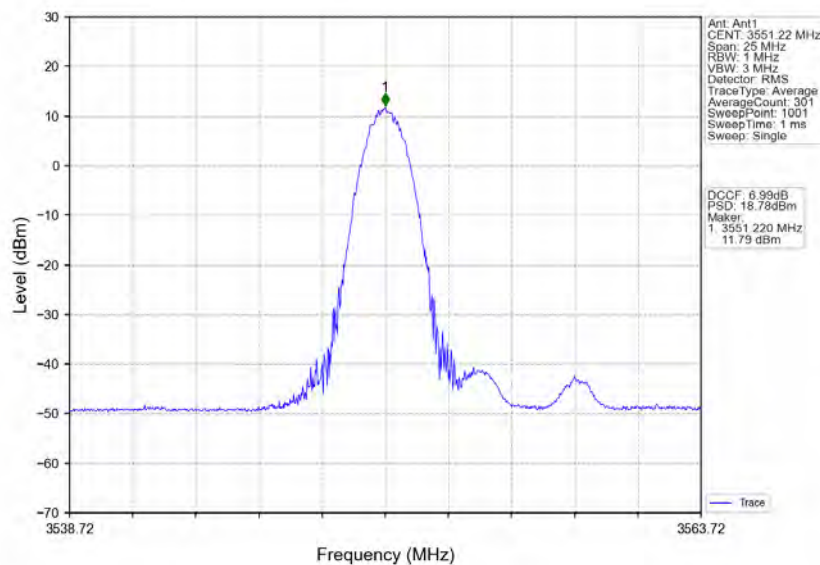
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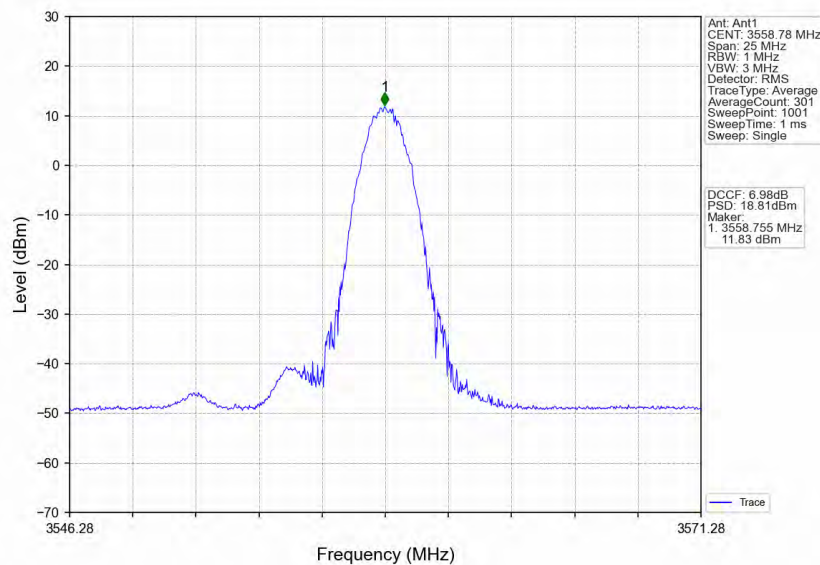
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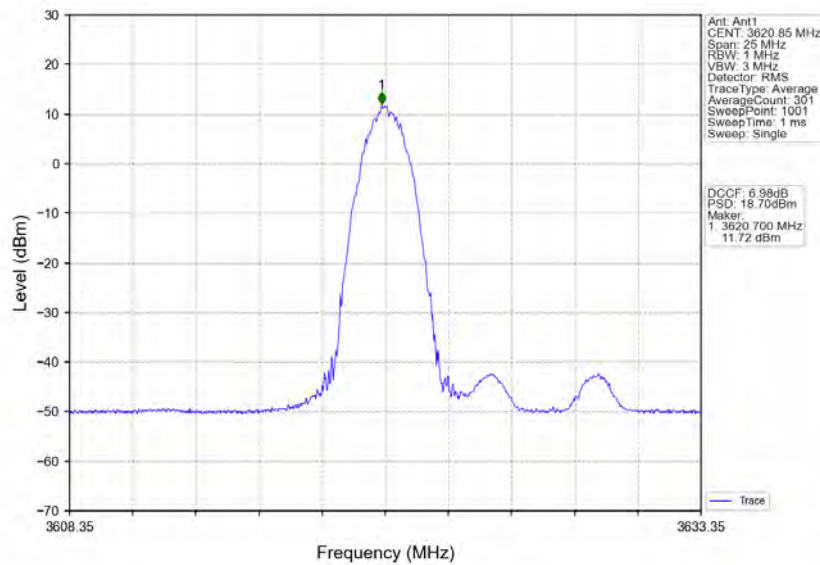
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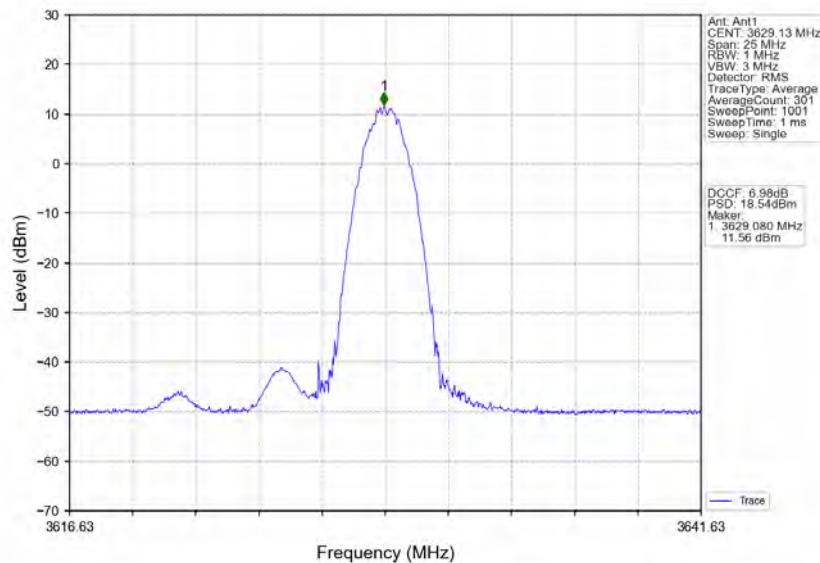
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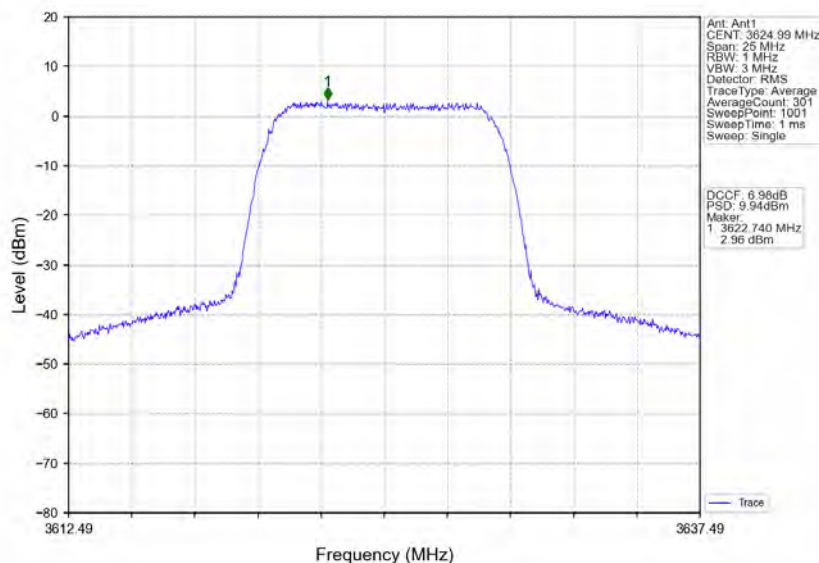
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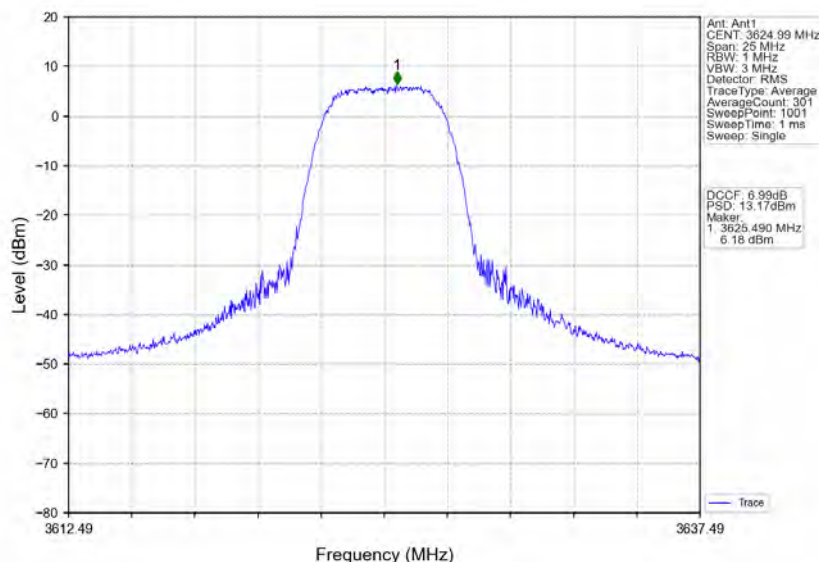
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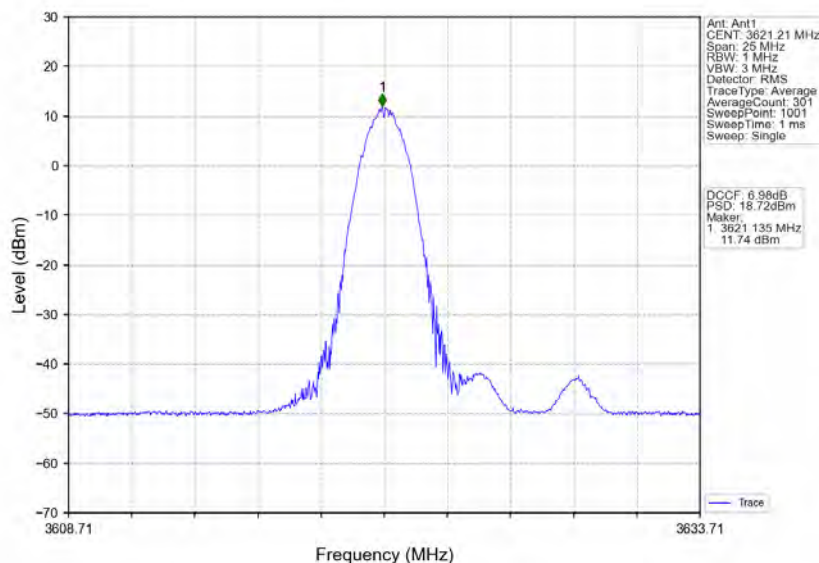
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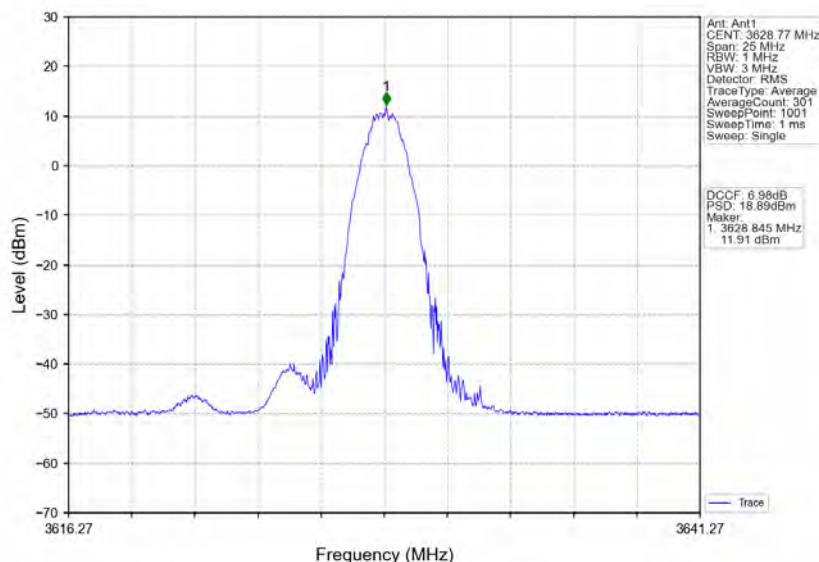
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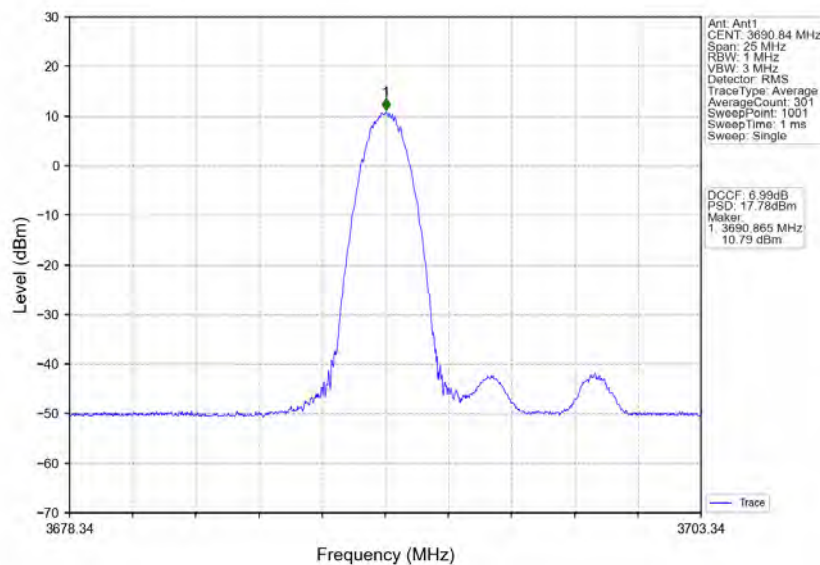
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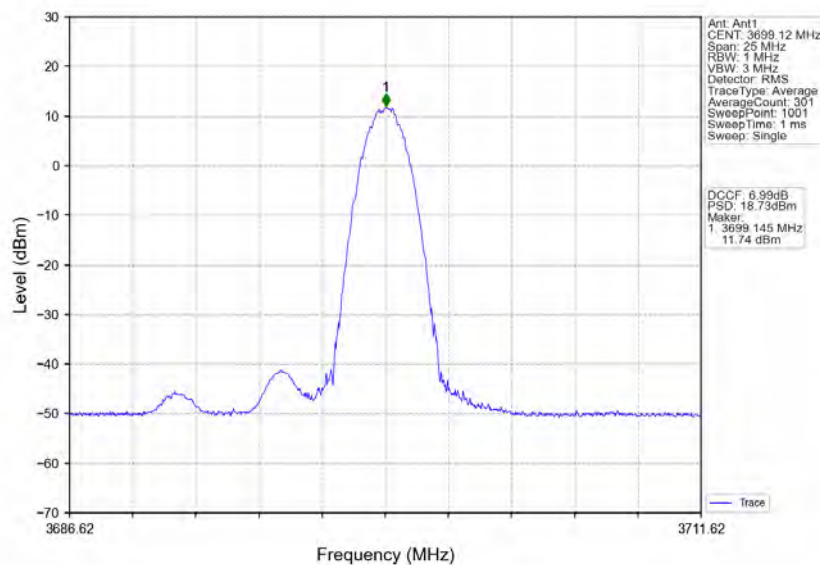
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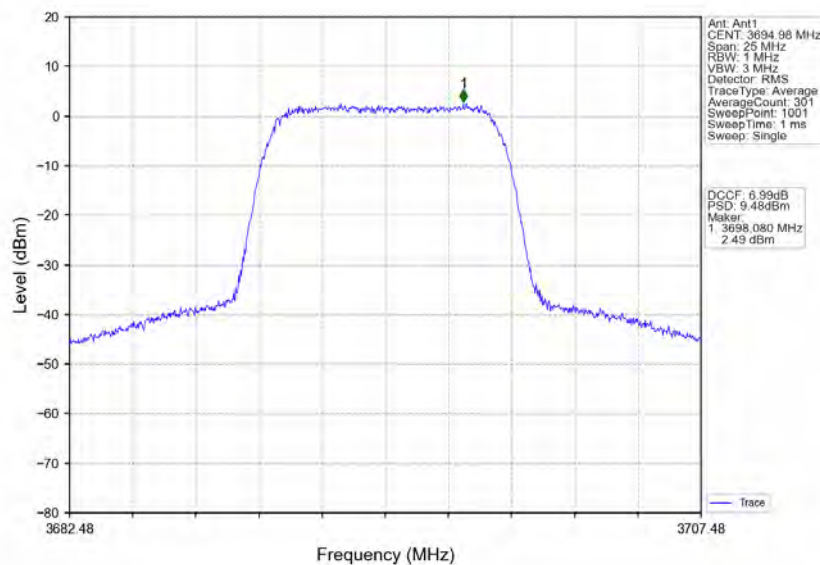
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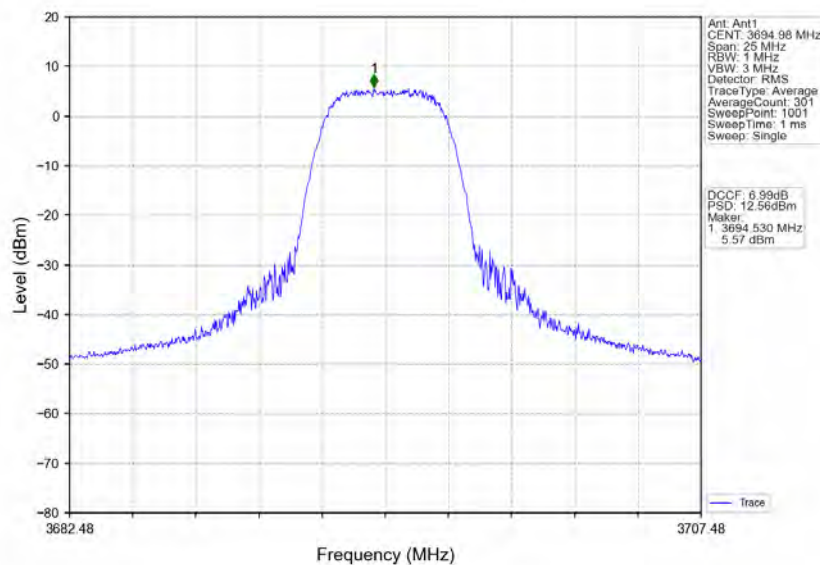
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n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM 64 QAM_3694.98MHz_Outer_Full



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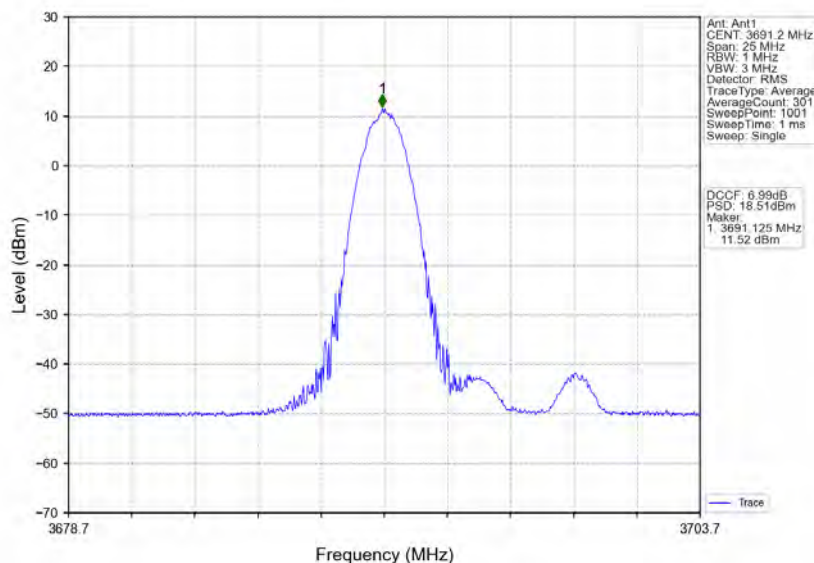
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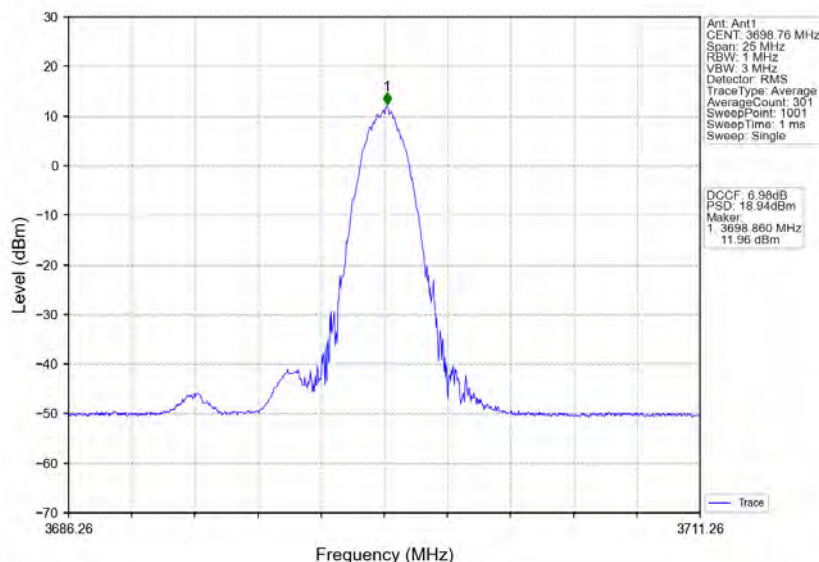
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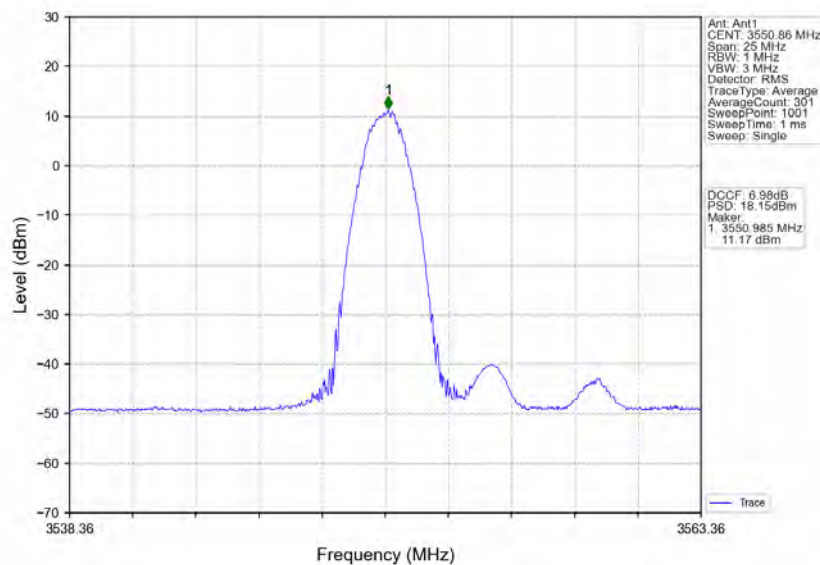
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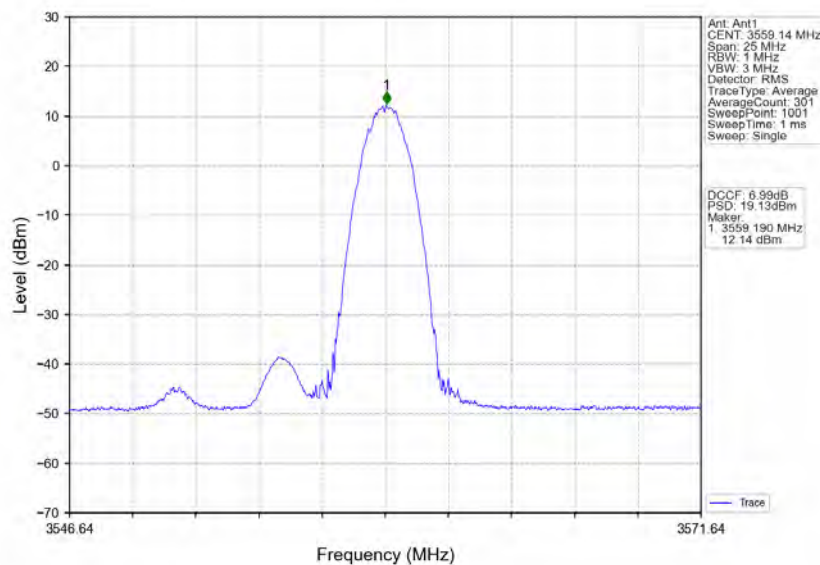
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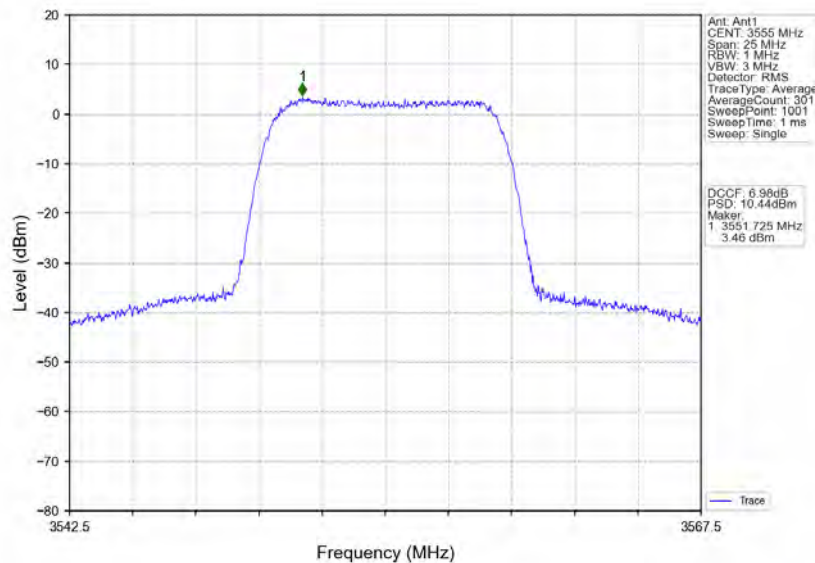
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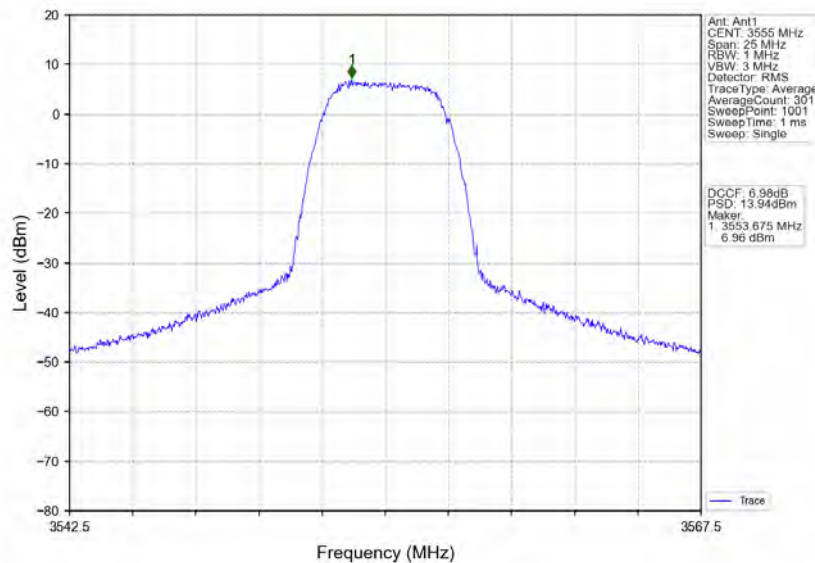
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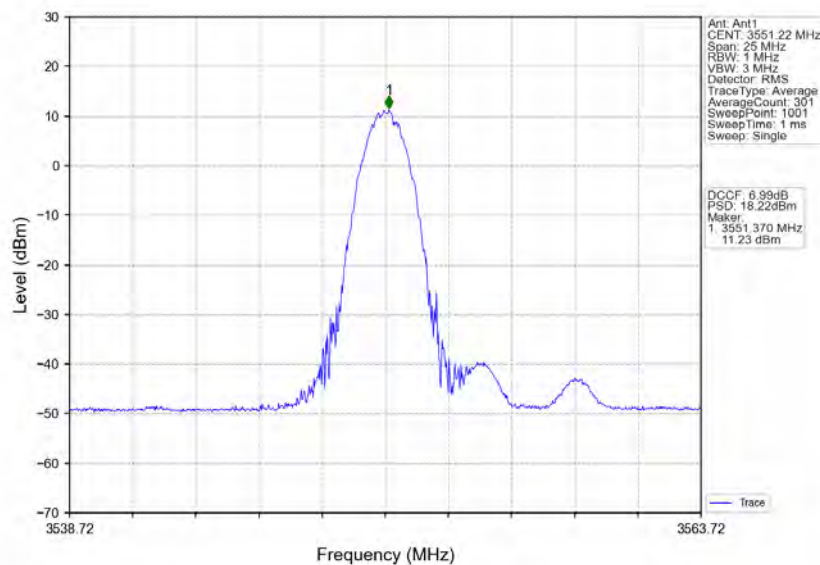
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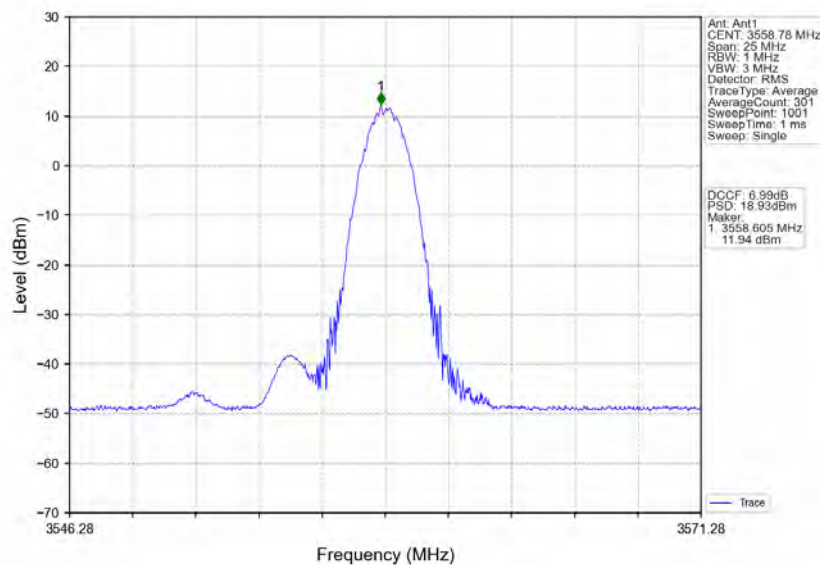
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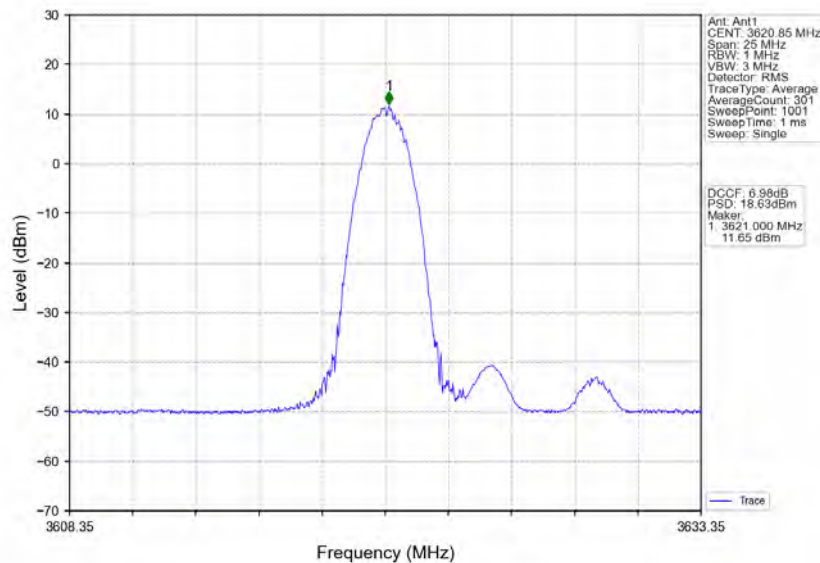
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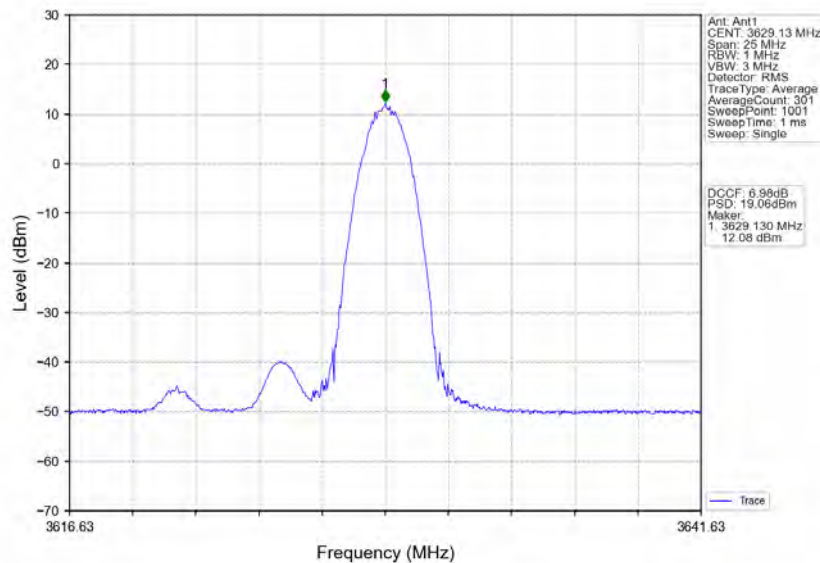
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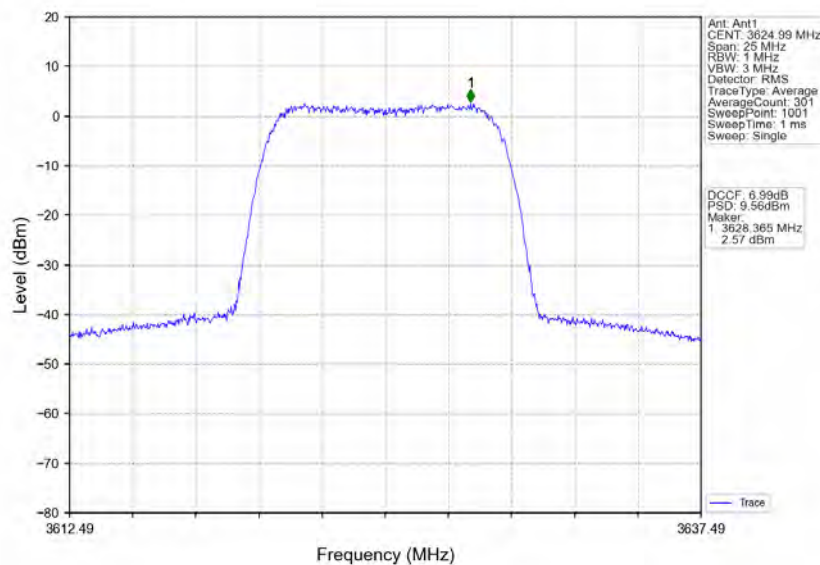
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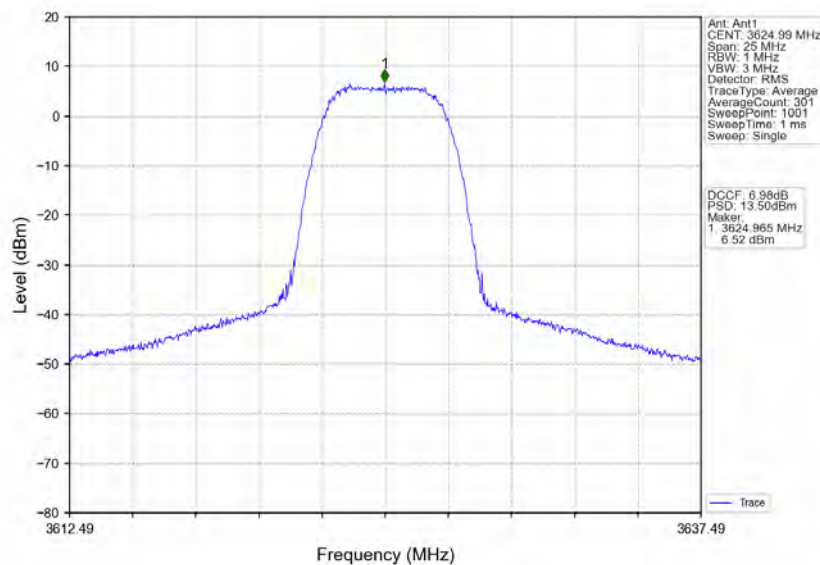
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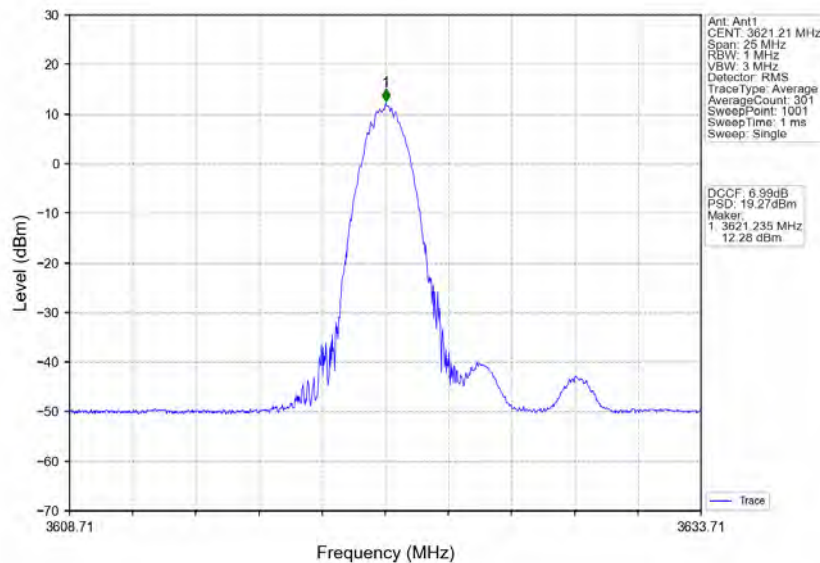
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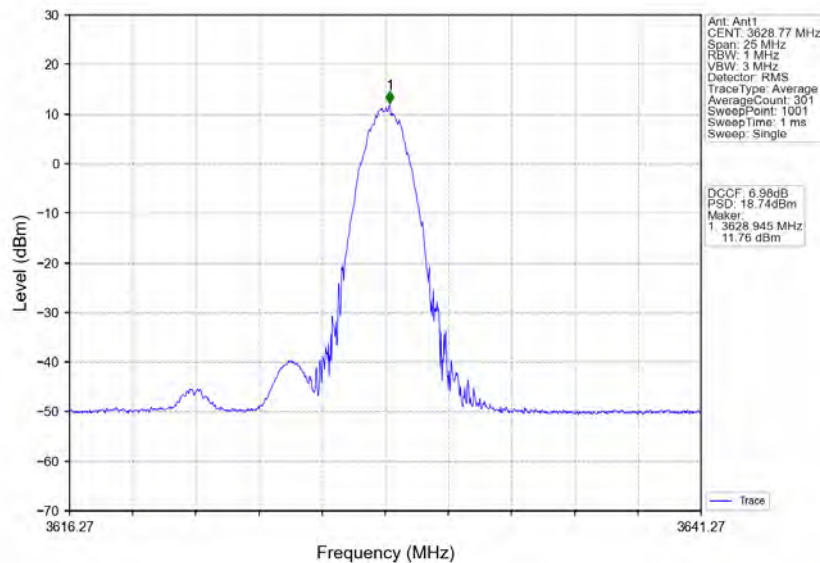
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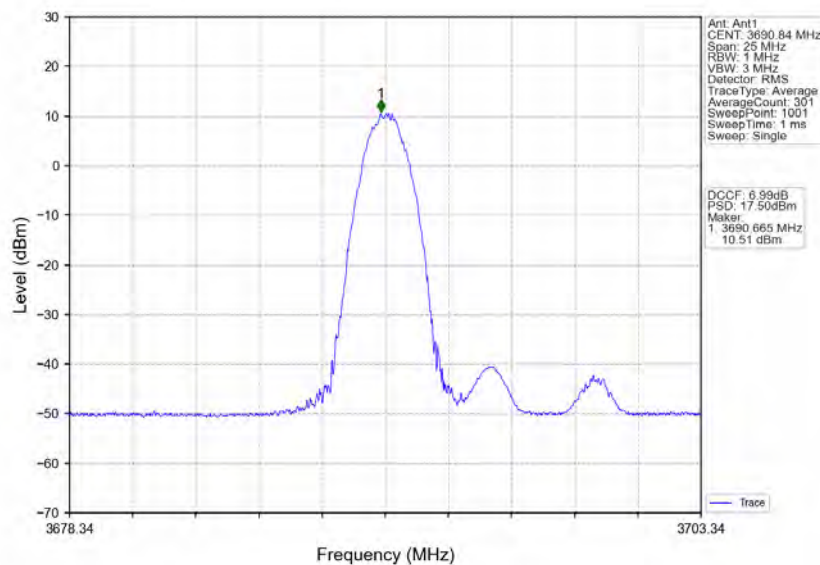
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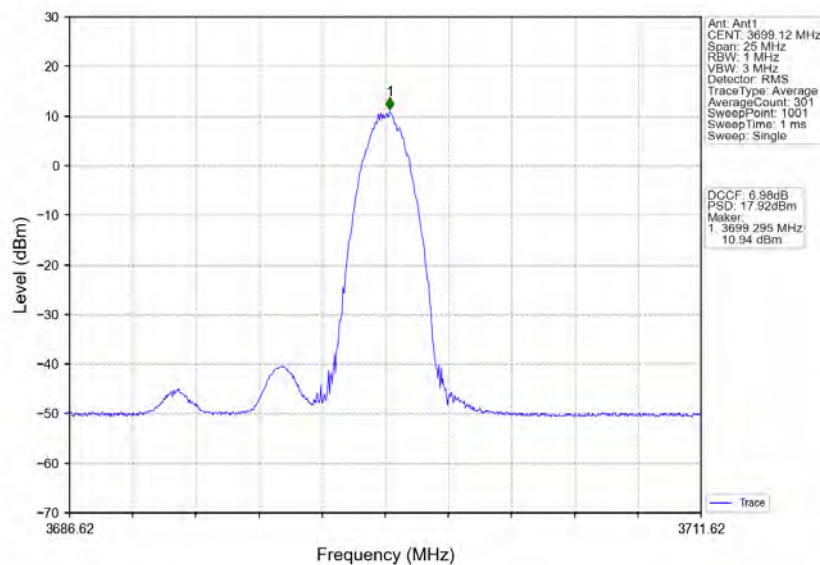
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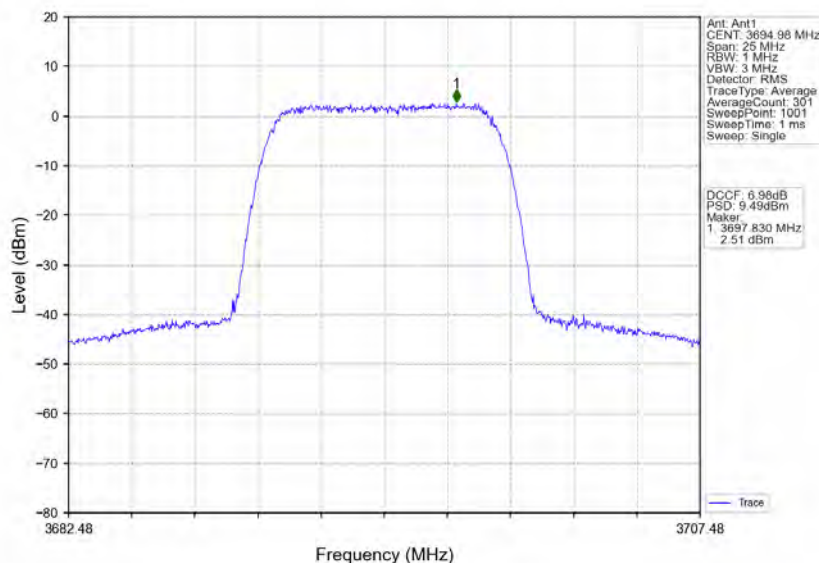
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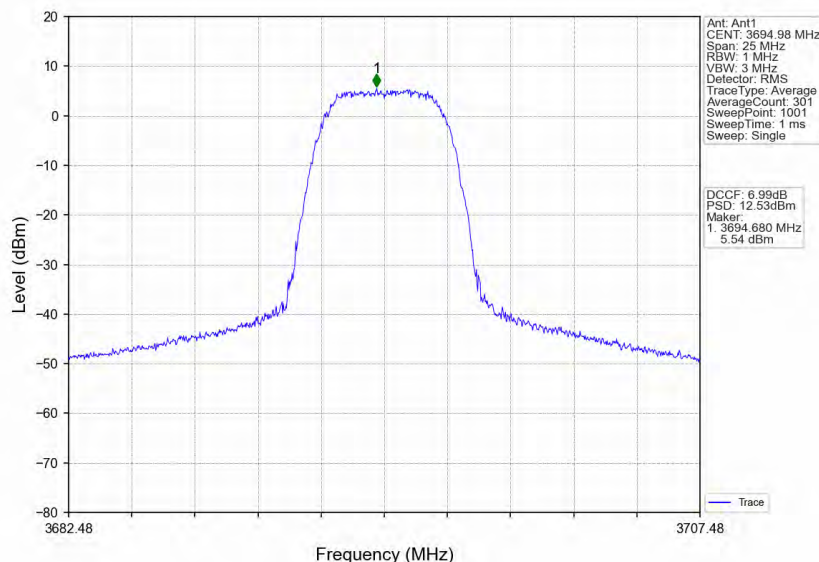
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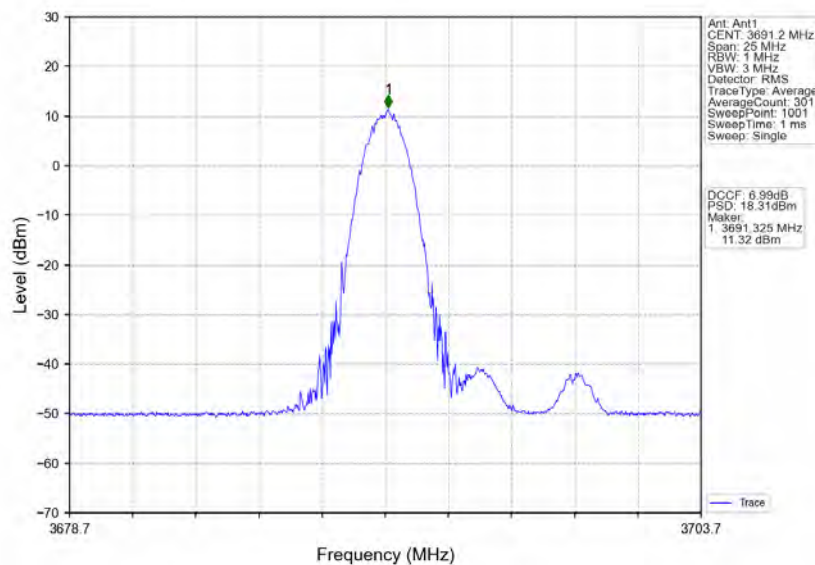
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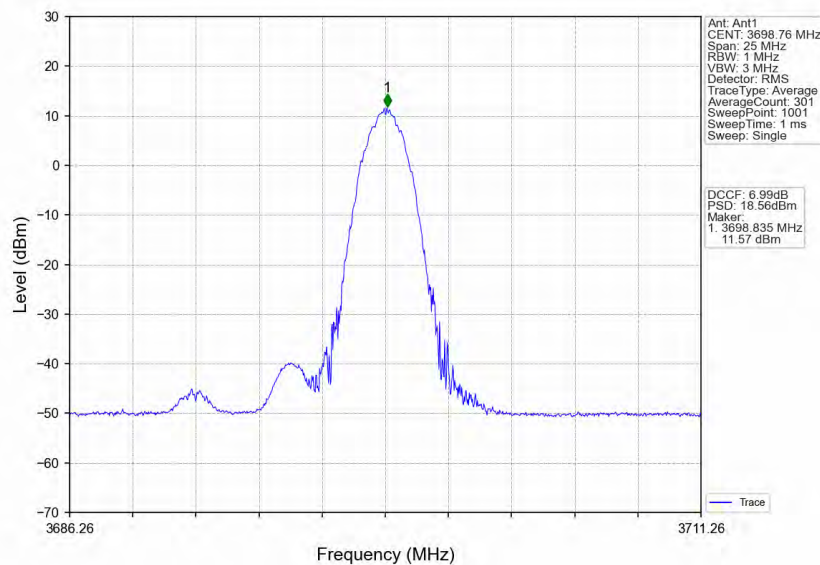
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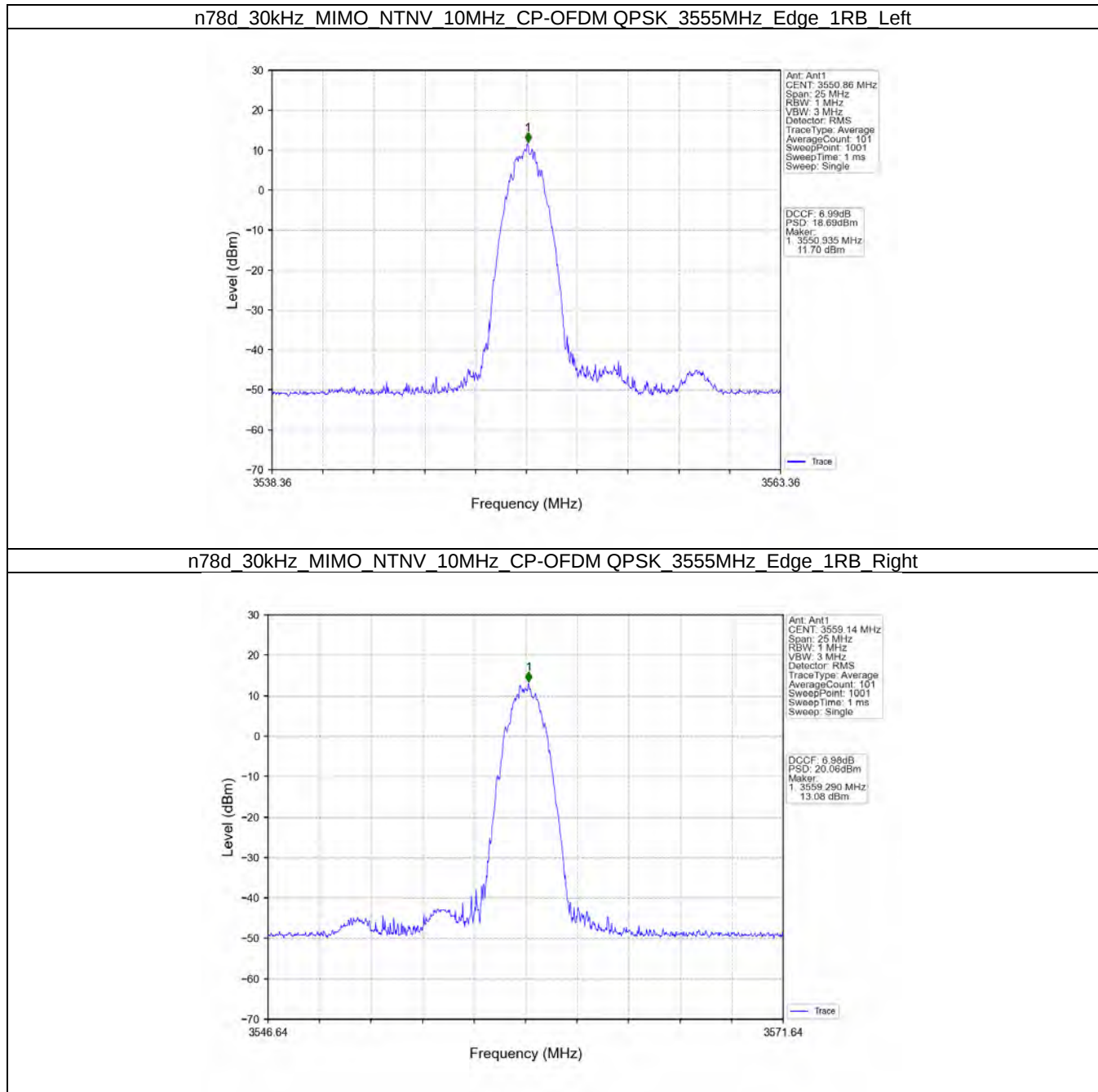
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2.3.3 Test Graph for ANT2



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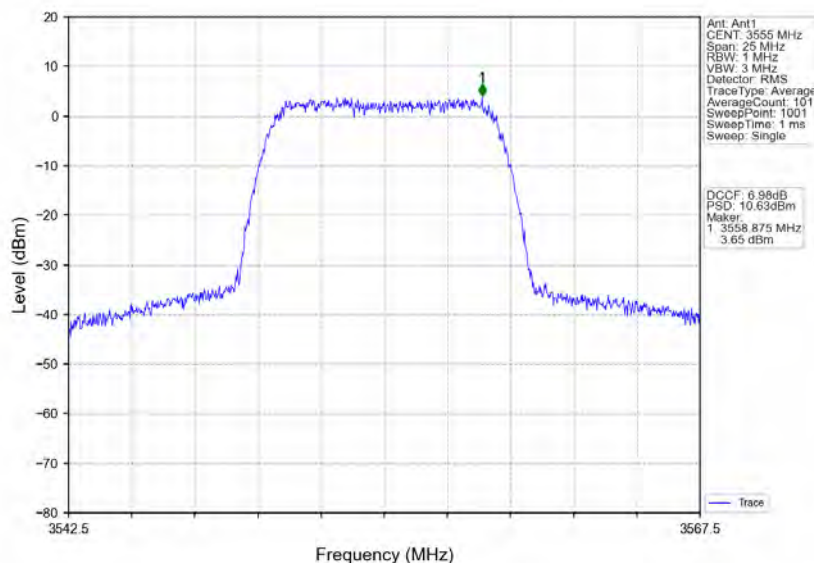
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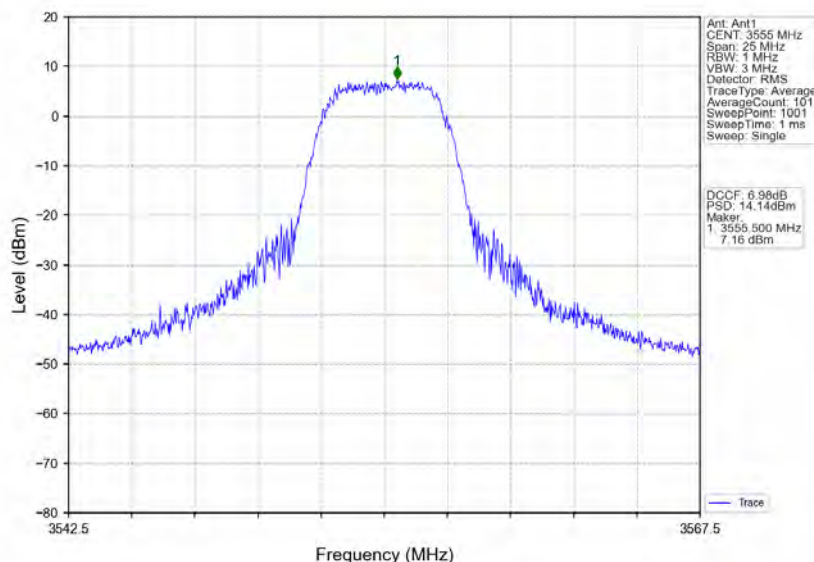
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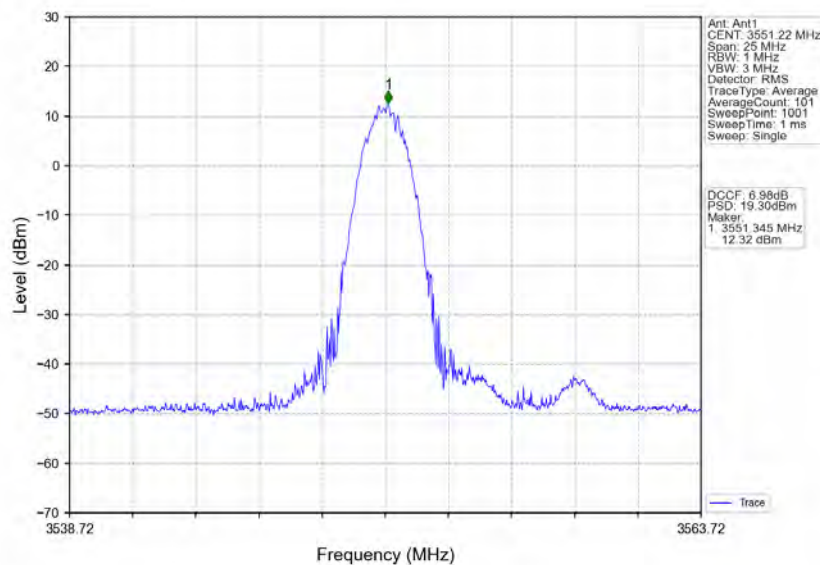
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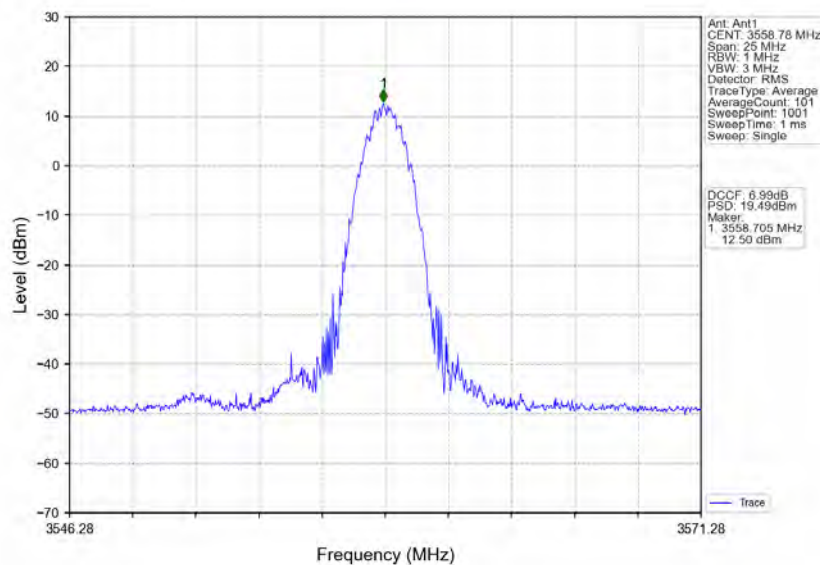
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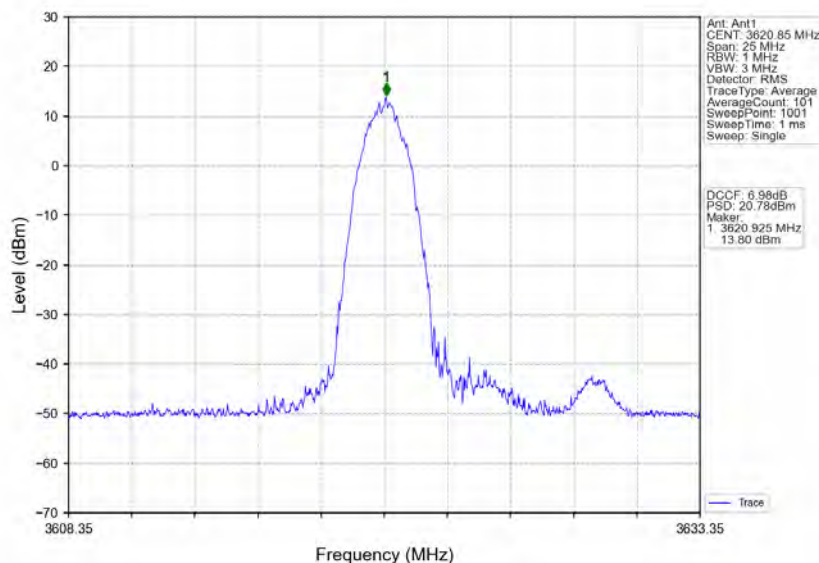
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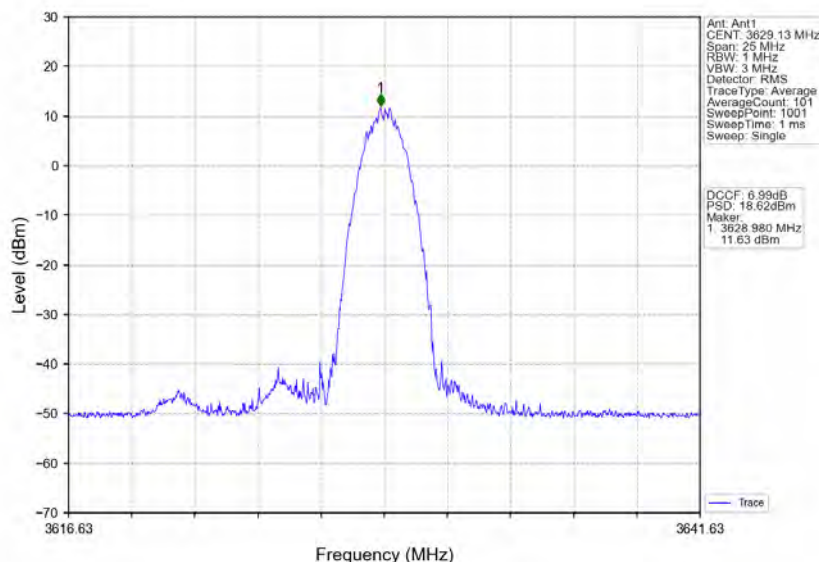
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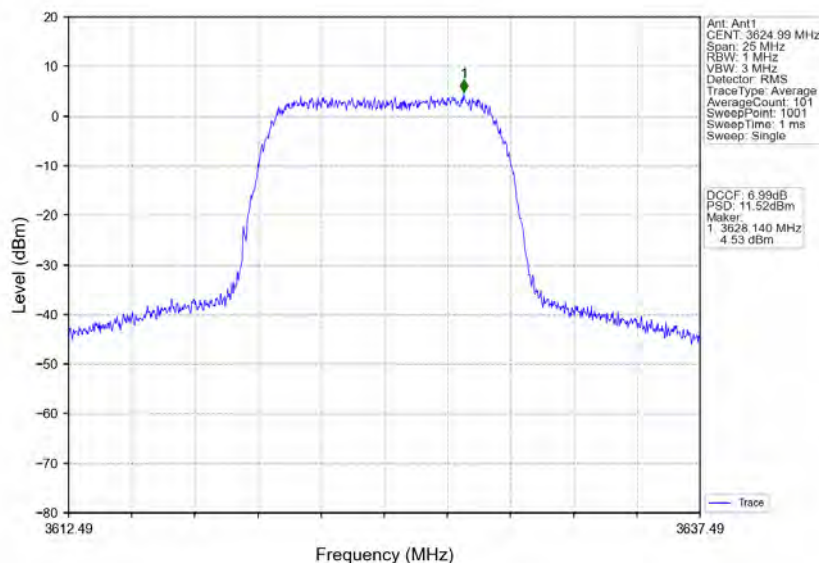
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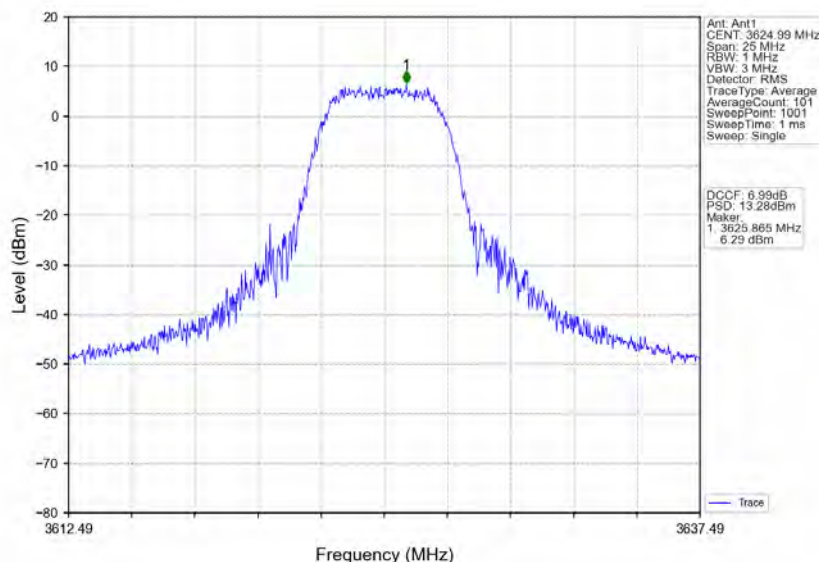
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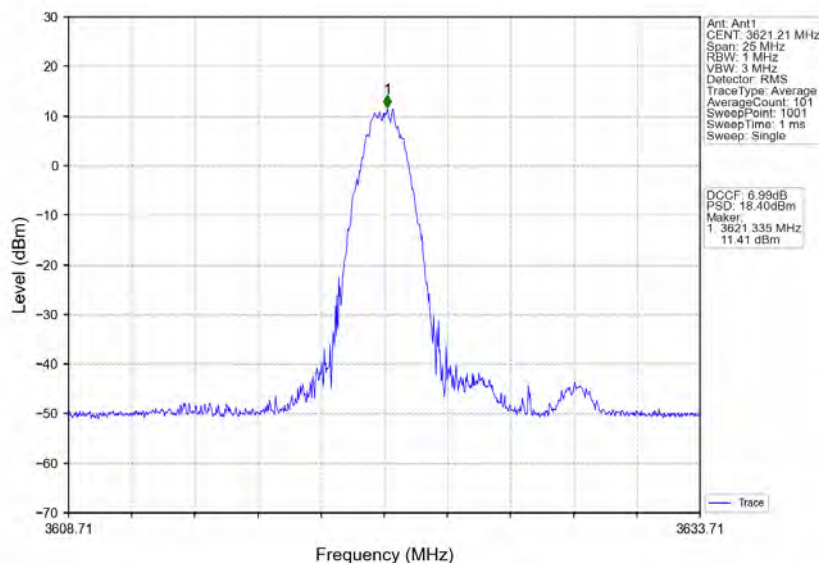
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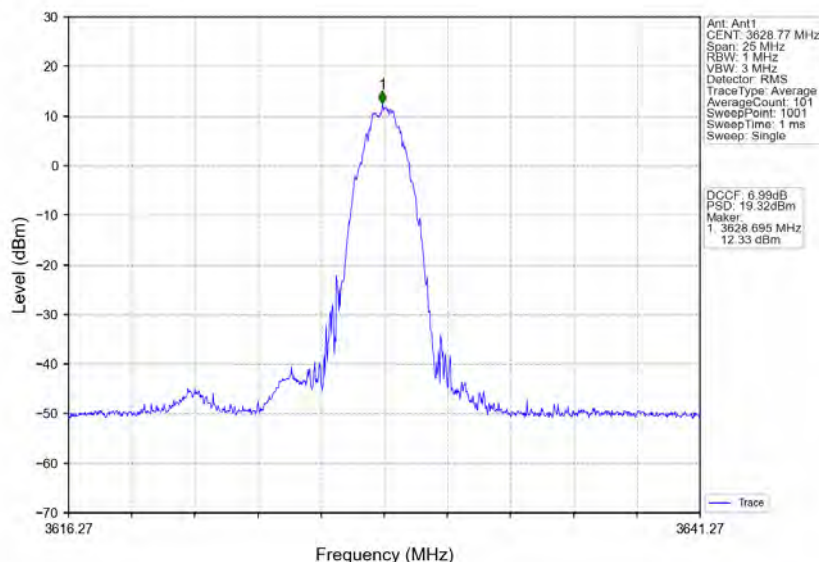
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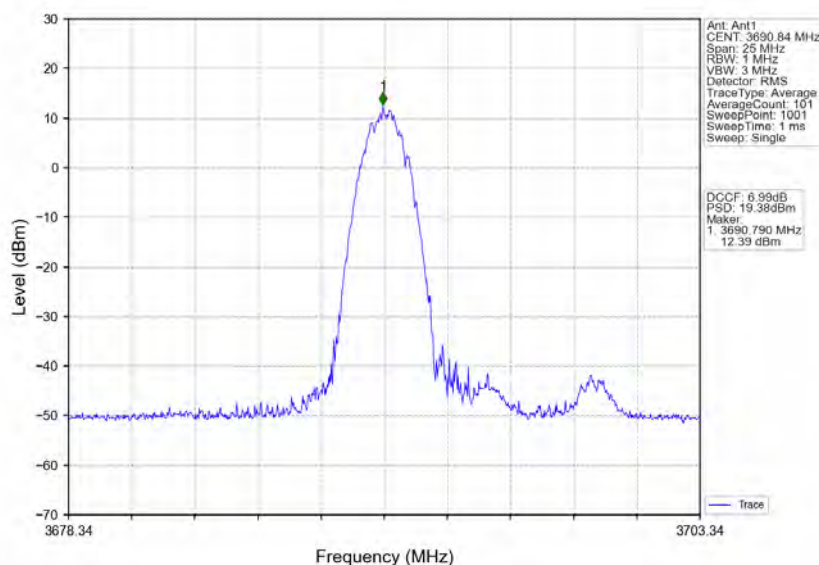
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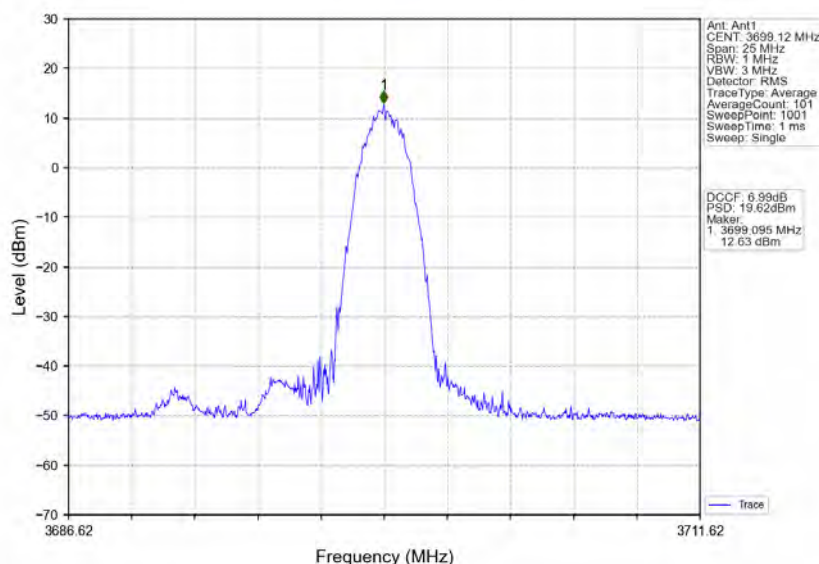
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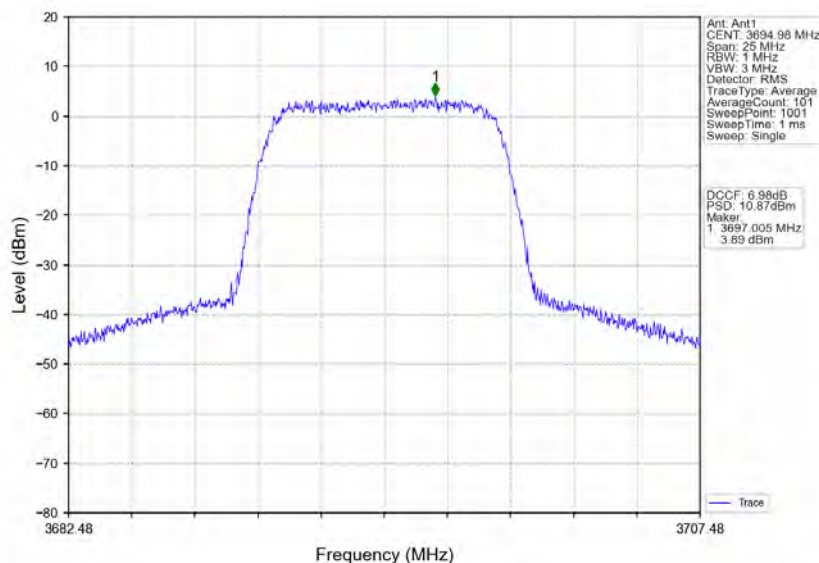
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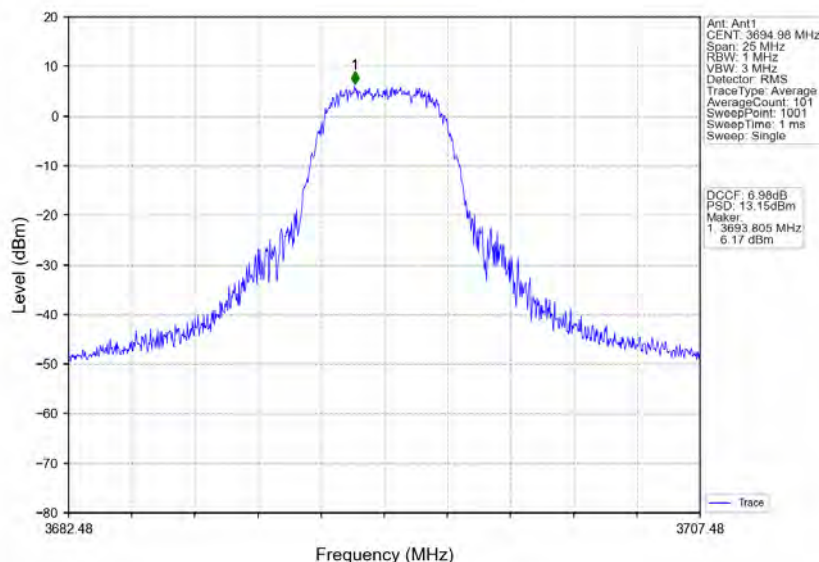
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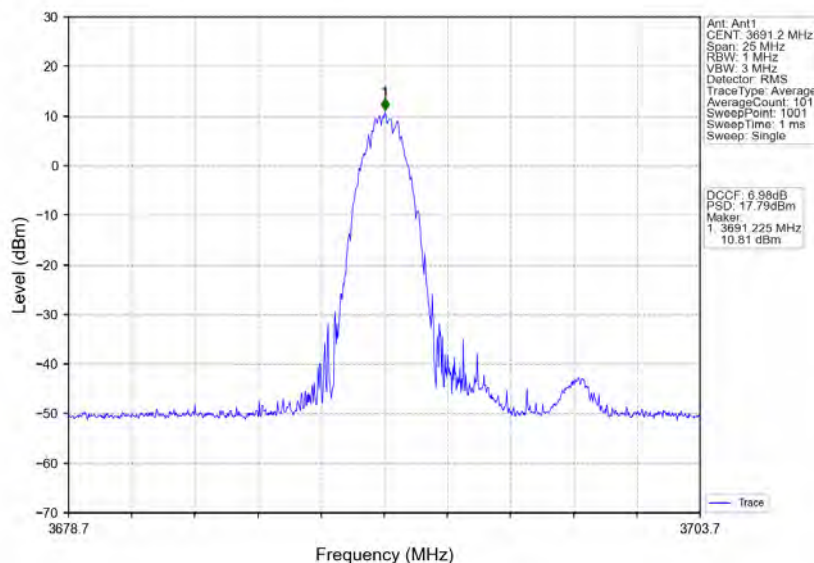
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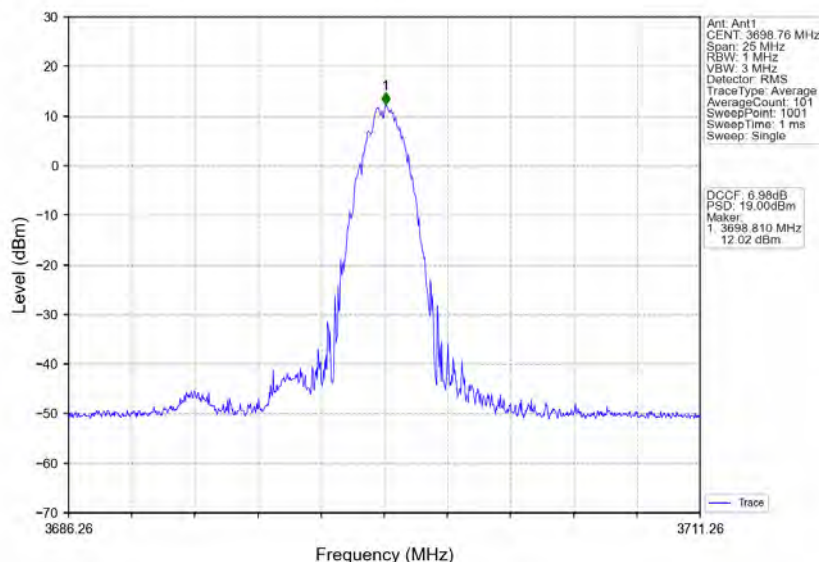
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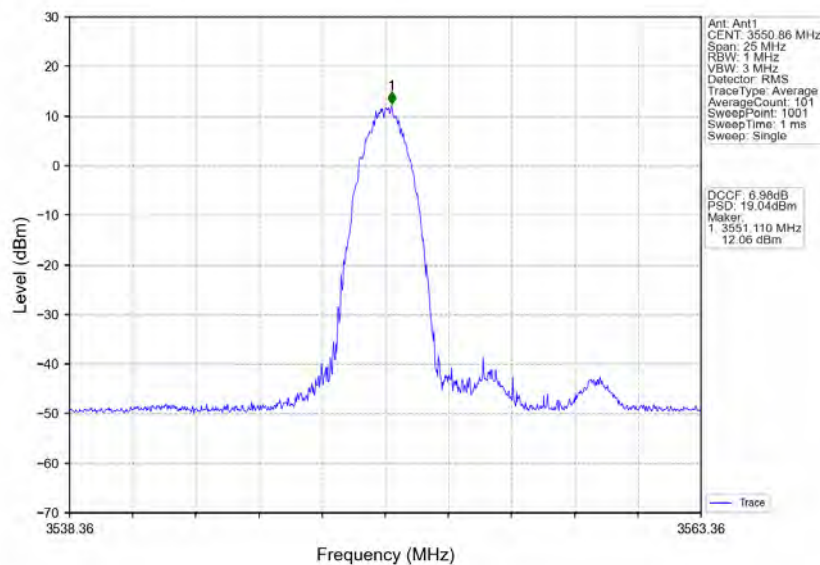
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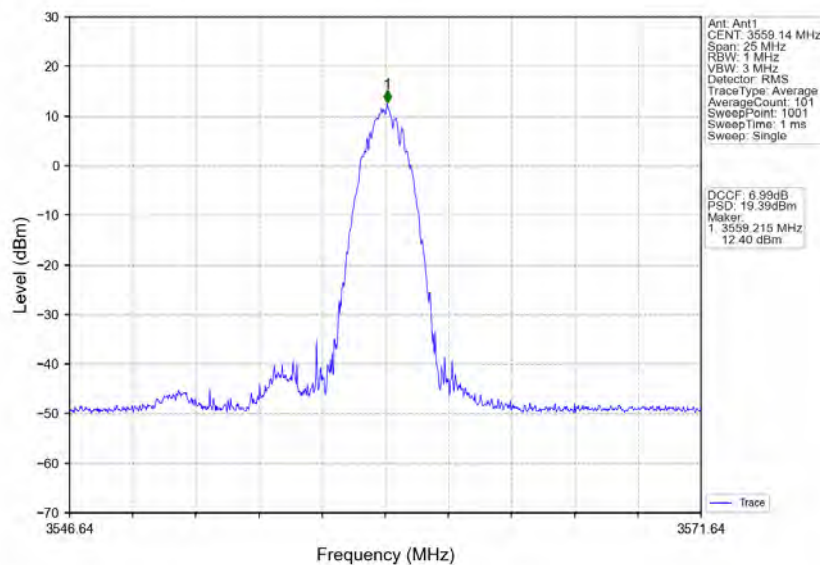
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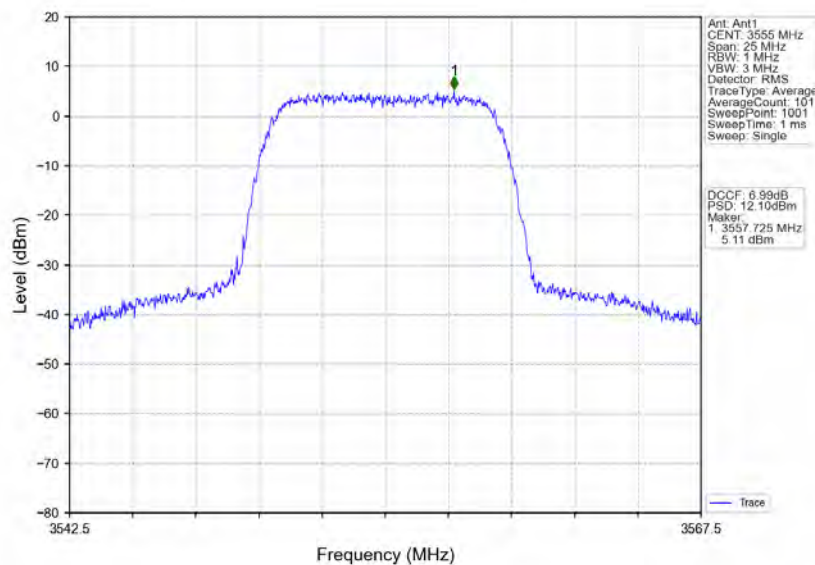
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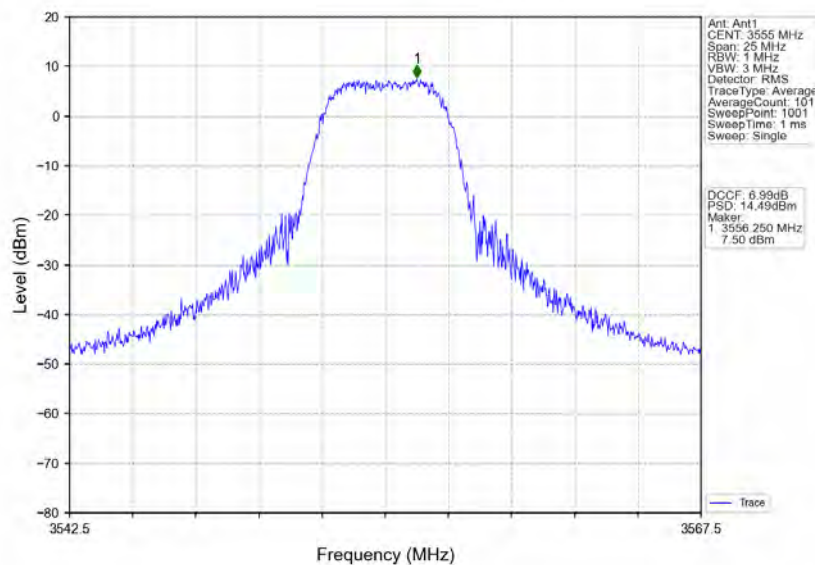
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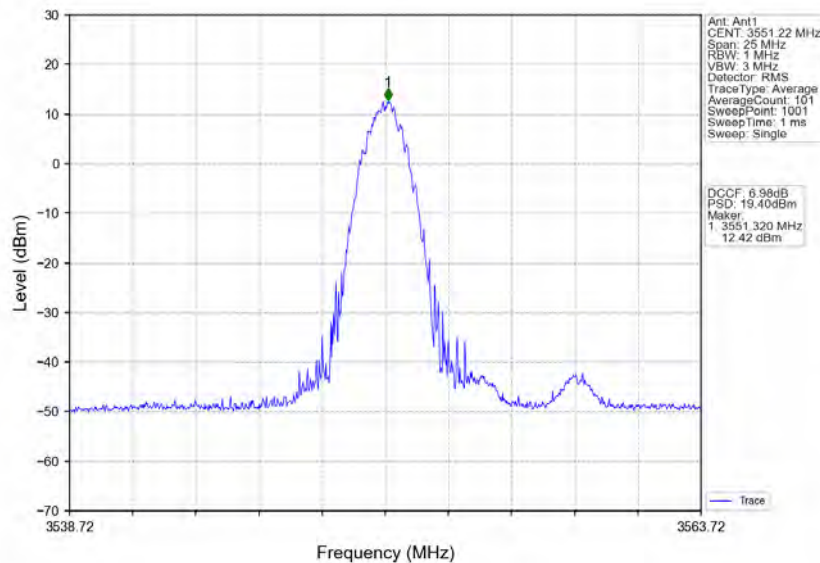
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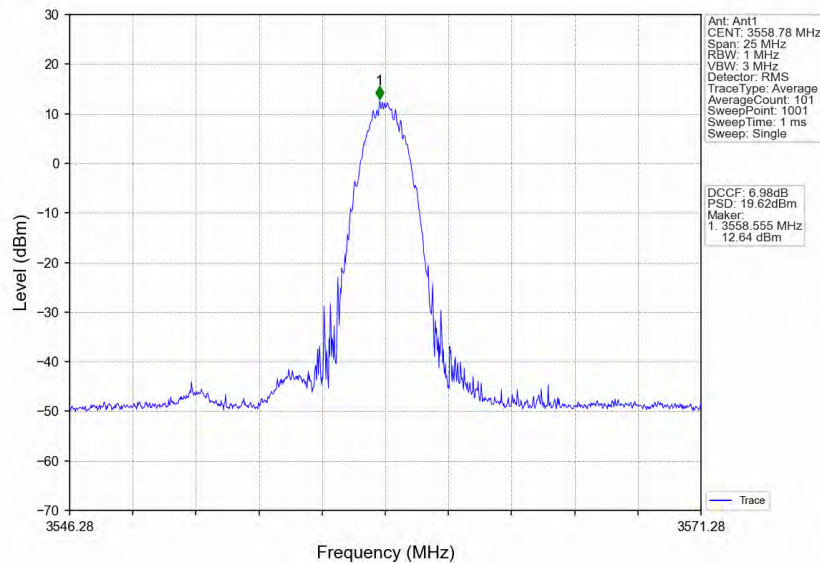
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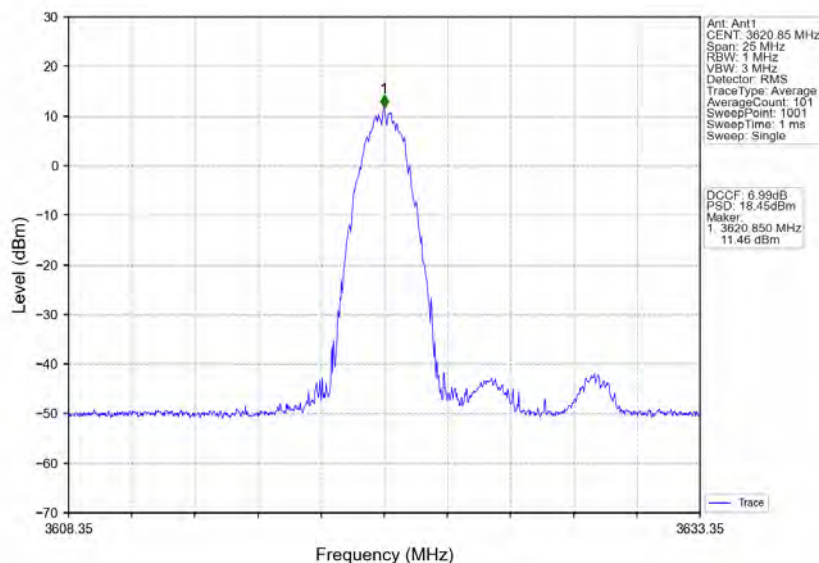
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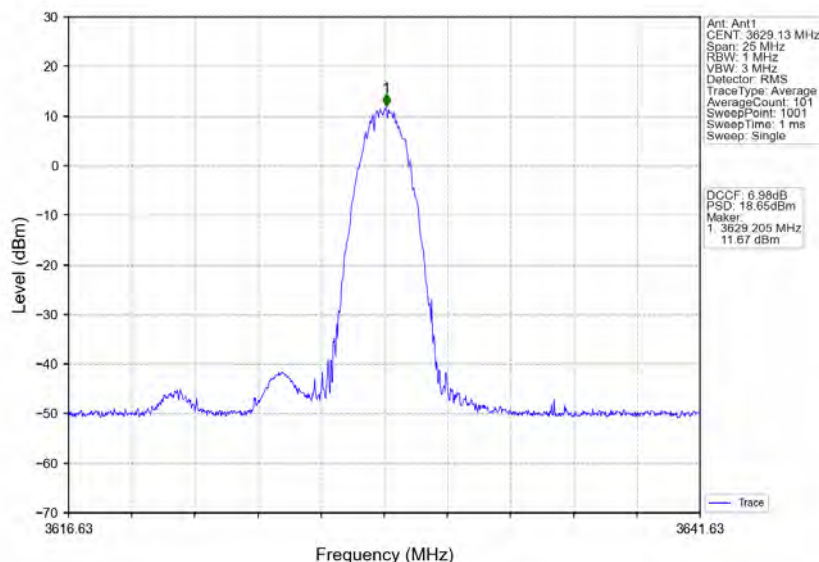
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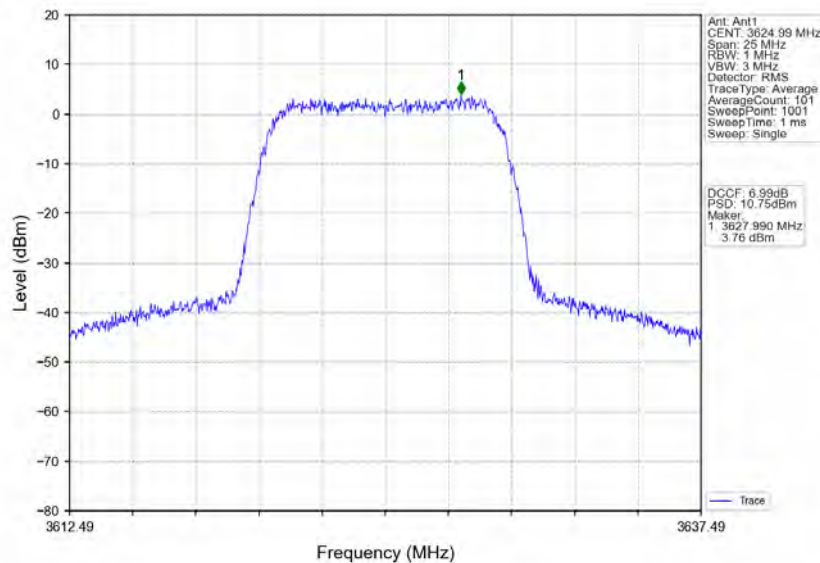
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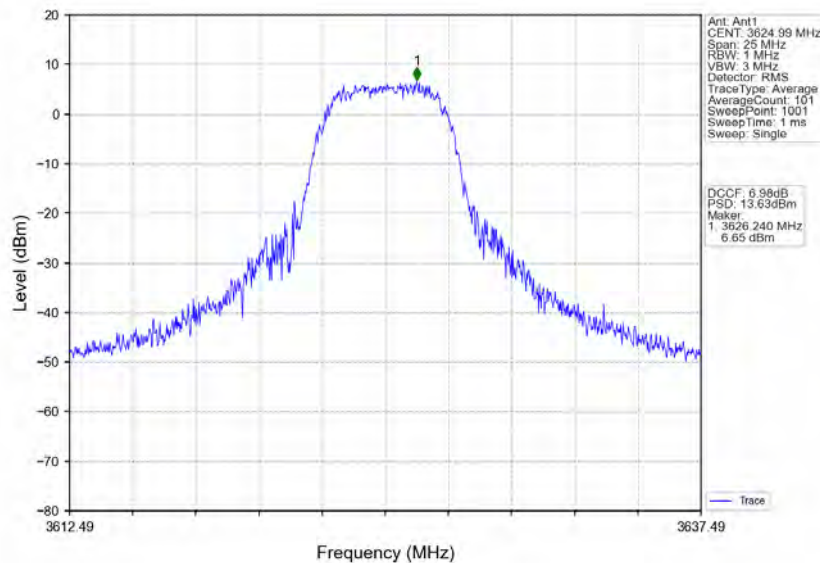
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n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM_16_QAM_3624.99MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM_16_QAM_3624.99MHz_Inner_Full



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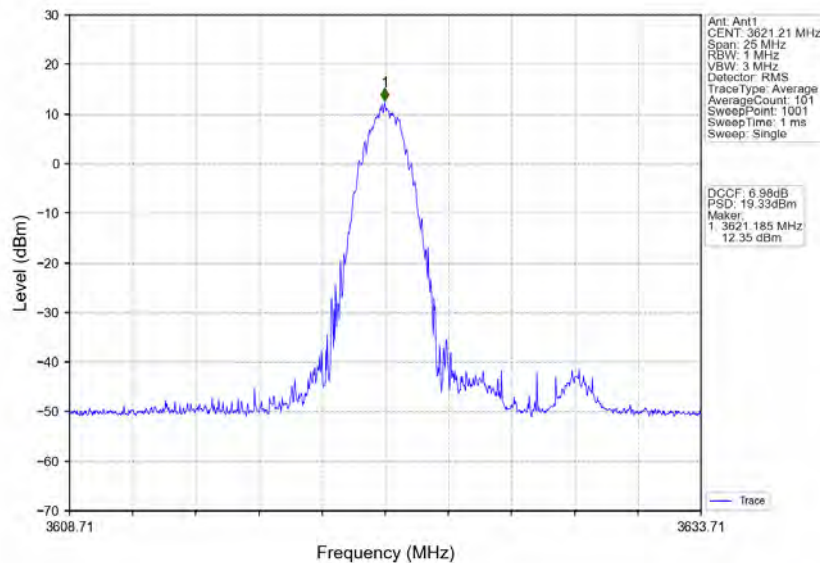
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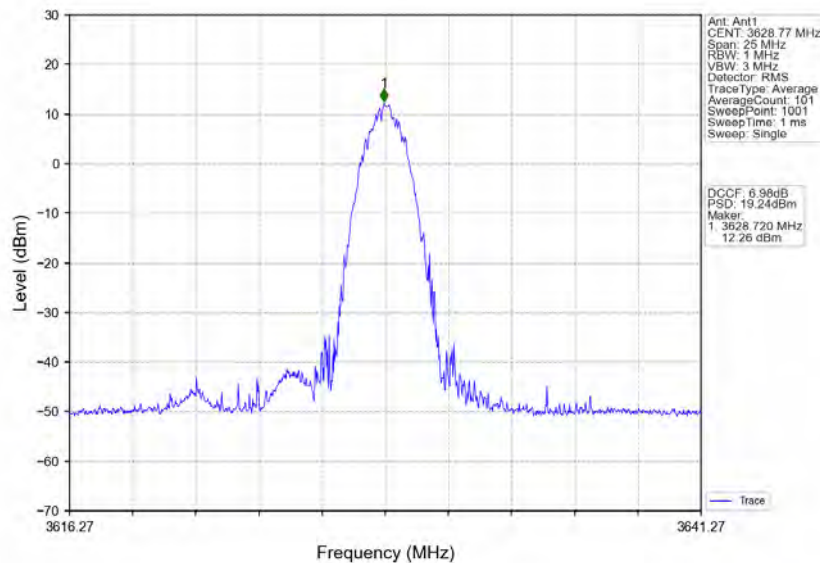
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n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM 16 QAM_3624.99MHz_Inner_1RB_Left



n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM 16 QAM_3624.99MHz_Inner_1RB_Right



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