

Appendix for KSCR2210001943AT-FCC-NR78

1. Duty Cycle

1.1 30k_MIMO_10MHz_NTNV

1.1.1 Test Result

5G NR n78d SCS=30kHz MIMO 10MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
CP-OFDM QPSK	3555	Edge_1RB_Left	1.002	5.000	20.04	6.98	0.00
		Edge_1RB_Right	1.000	4.998	20.01	6.99	0.02
		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	1.002	5.000	20.04	6.98	0.00
		Inner_1RB_Right	1.000	5.000	20.00	6.99	0.04
	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	1.002	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	0.03
	3694.98	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	1.000	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
CP-OFDM 16 QAM	3555	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	0.03
		Inner_Full	1.002	5.000	20.04	6.98	0.00
		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	0.04
		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	1.000	5.000	20.00	6.99	0.04
		Inner_1RB_Left	1.002	5.000	20.04	6.98	0.00
		Inner_1RB_Right	1.000	5.000	20.00	6.99	0.00
	3694.98	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	0.00
		Inner_Full	1.000	5.000	20.00	6.99	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
CP-OFDM 64 QAM	3555	Edge_1RB_Left	1.002	5.002	20.03	6.98	0.05
		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	0.04
		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

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	3624.99	Inner_1RB_Right	1.002	5.000	20.04	6.98	0.00
		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	0.03
		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
	3694.98	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	1.002	5.002	20.03	6.98	0.01
		Inner_Full	1.000	5.000	20.00	6.99	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
		CP-OFDM 256 QAM	3555	Edge_1RB_Left	1.002	5.000	20.04
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	0.04
Inner_1RB_Right	1.000			4.998	20.01	6.99	0.03
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		1.002	5.000	20.04	6.98	0.00
3694.98	Inner_1RB_Right		1.000	5.000	20.00	6.99	0.00
	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	0.00	
	Inner_Full	1.000	4.998	20.01	6.99	0.02	
	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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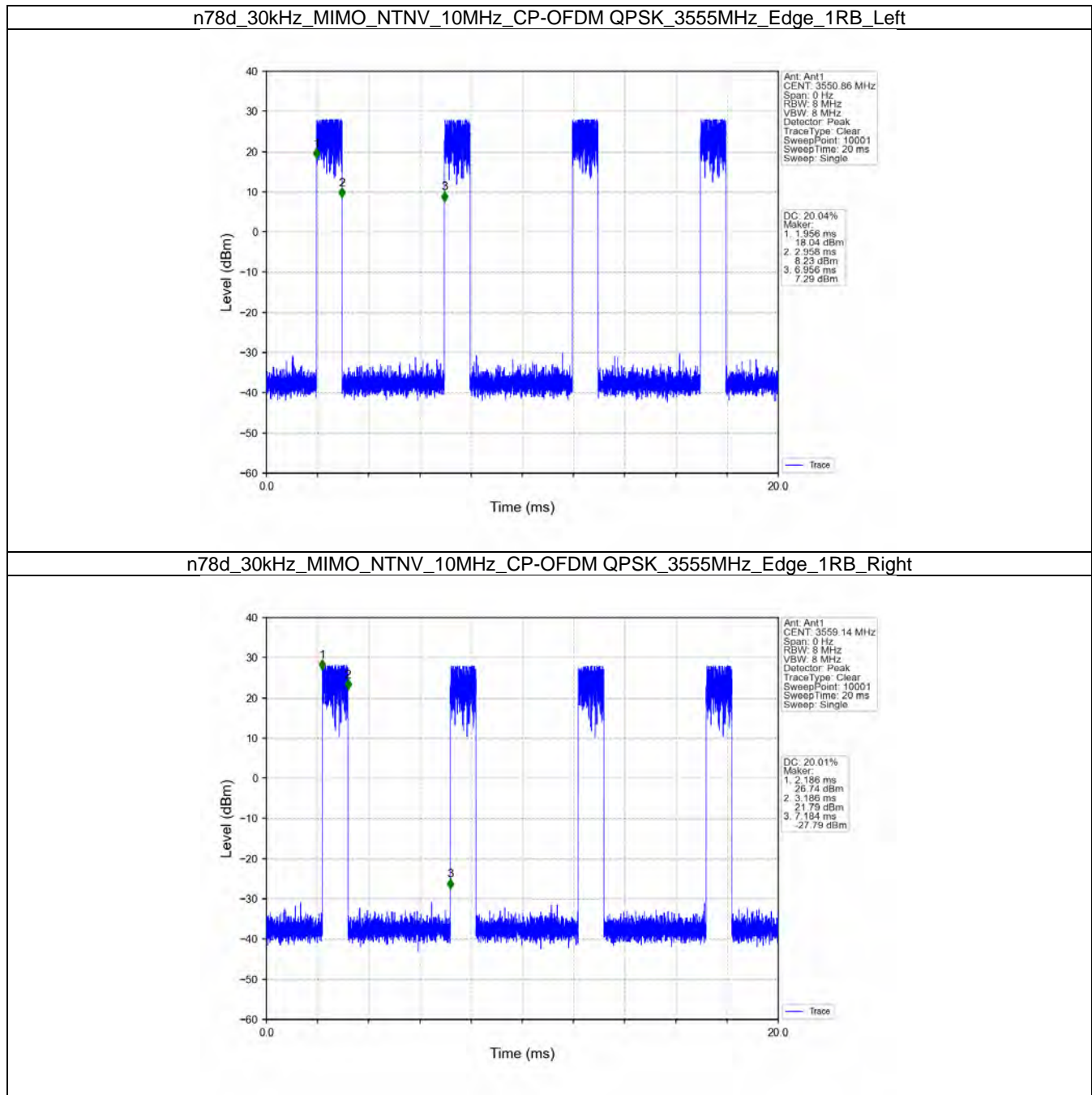
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1.1.2 Test Graph



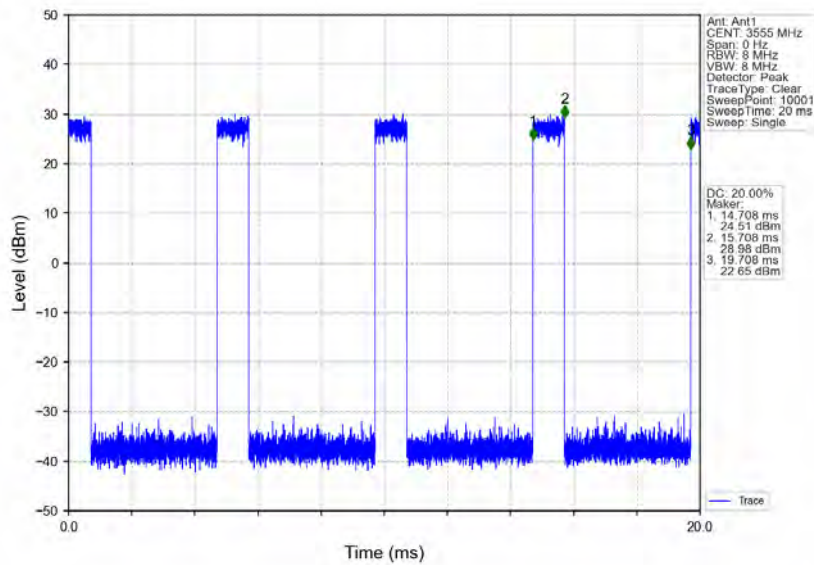
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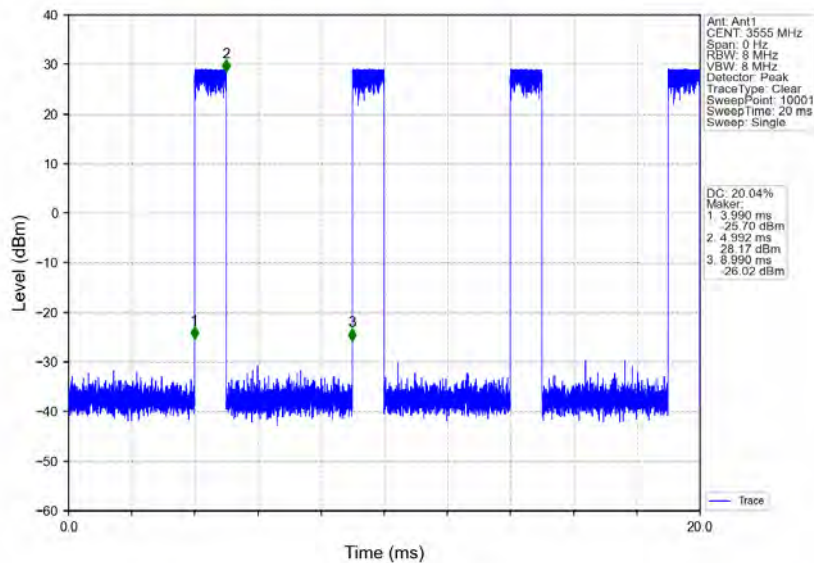
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n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Inner_Full



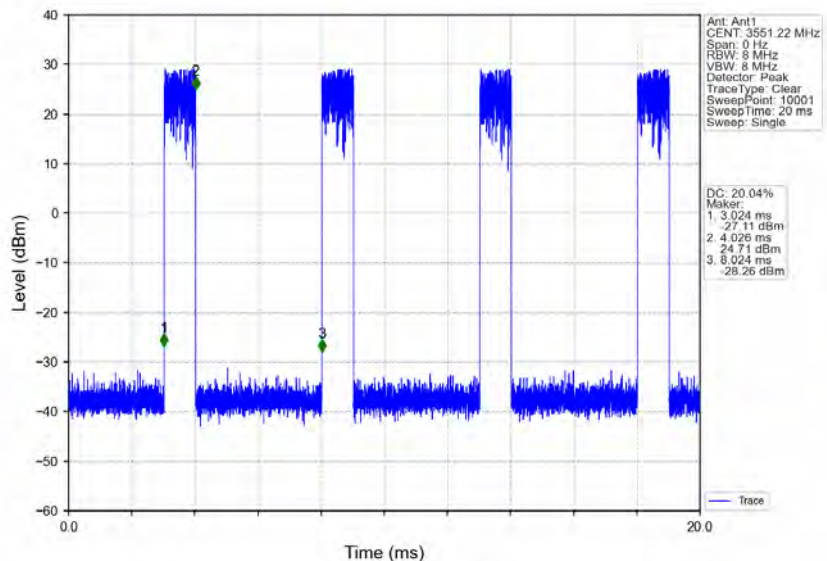
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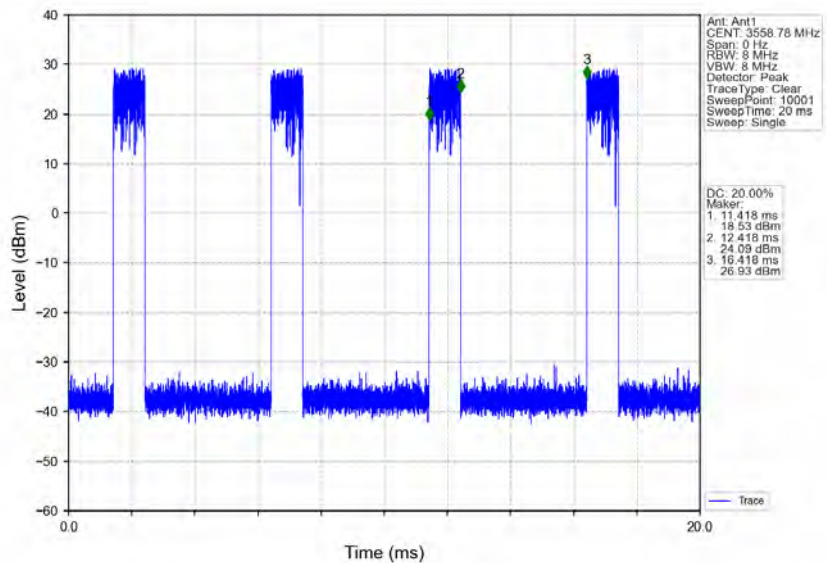
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n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Inner_1RB_Left



n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Inner_1RB_Right



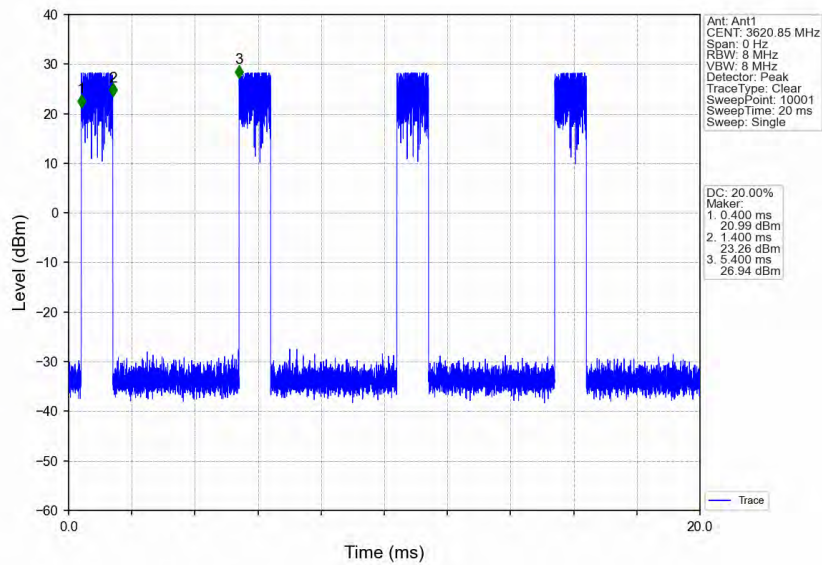
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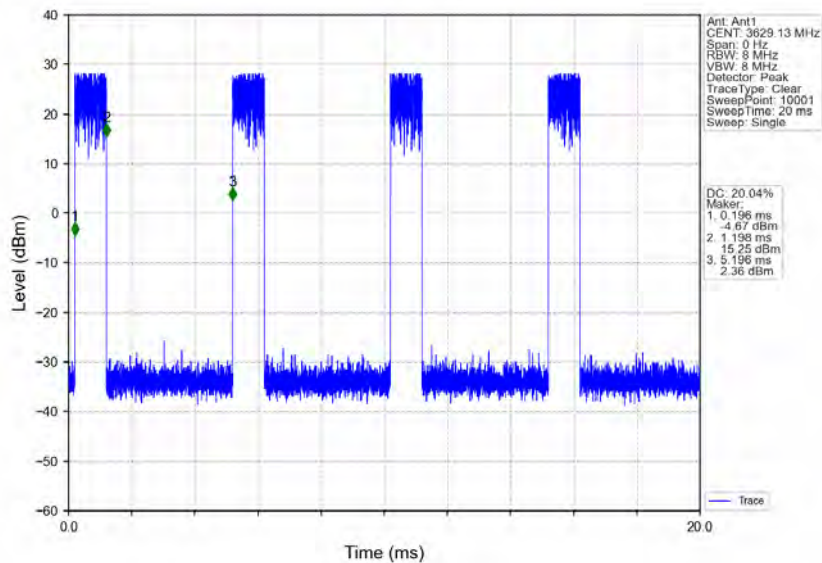
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n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3624.99MHz_Edge_1RB_Left



n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3624.99MHz_Edge_1RB_Right



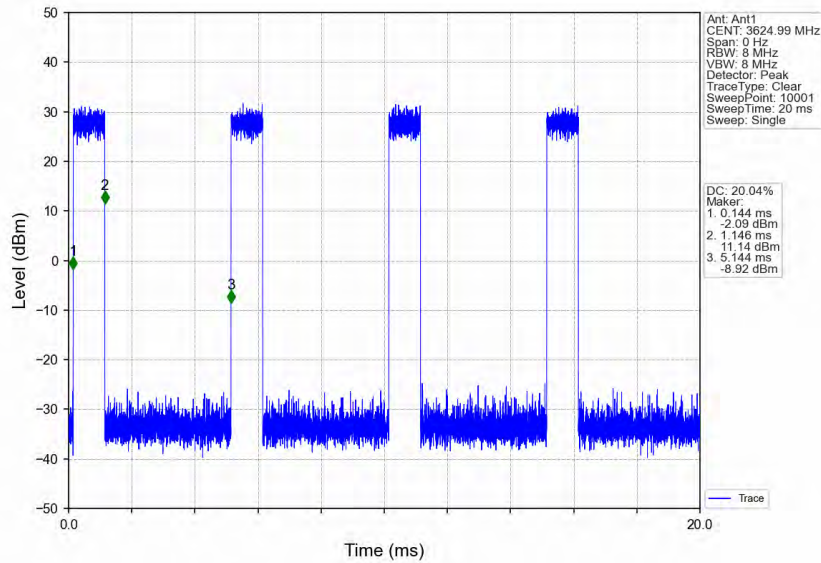
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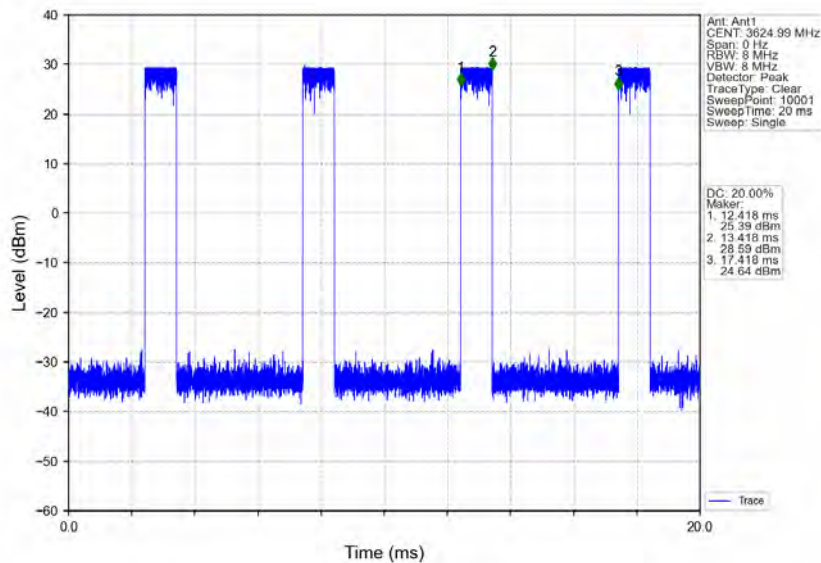
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n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM_QPSK_3624.99MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM_QPSK_3624.99MHz_Inner_Full



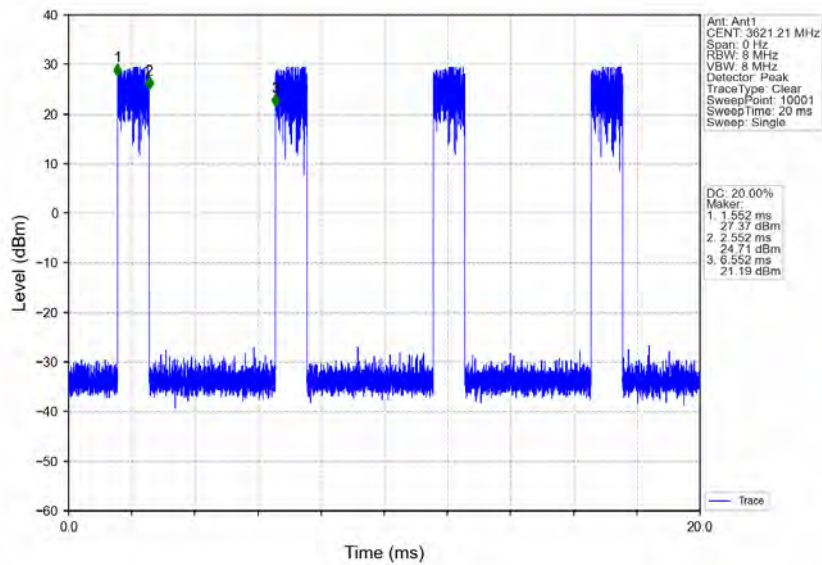
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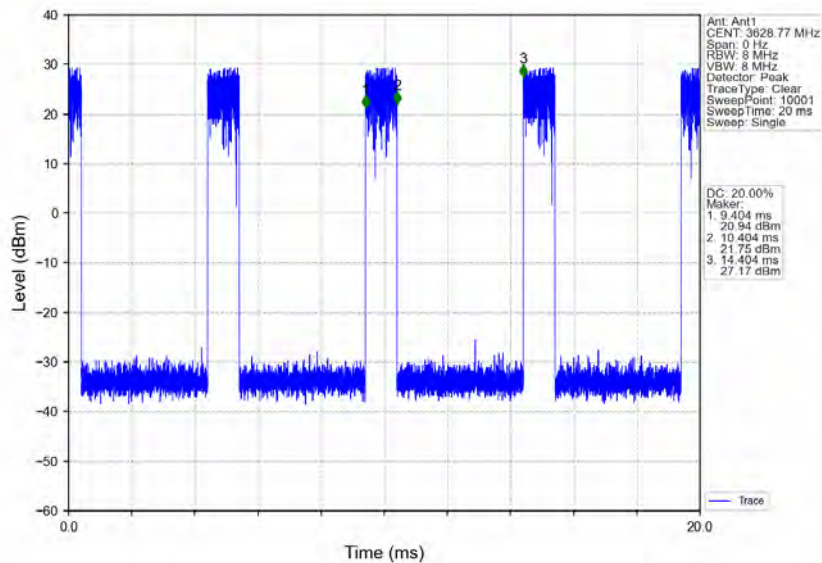
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n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3624.99MHz_Inner_1RB_Right



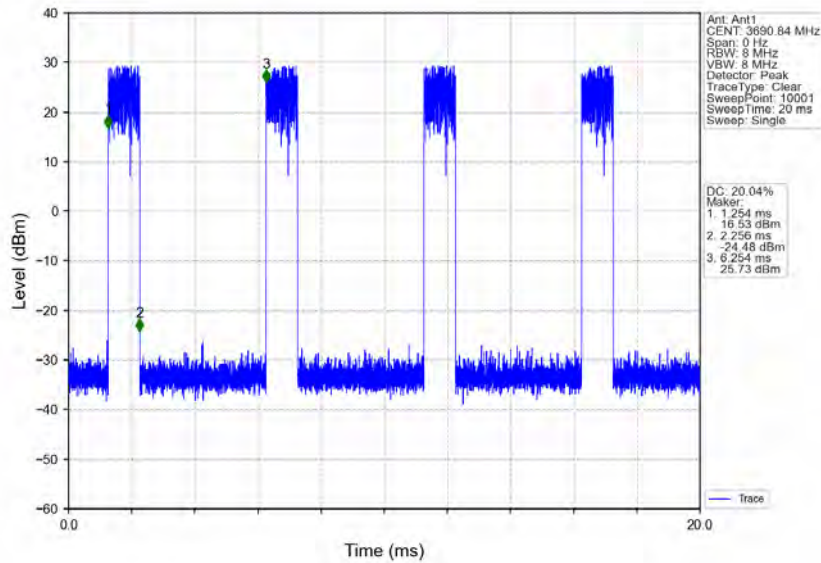
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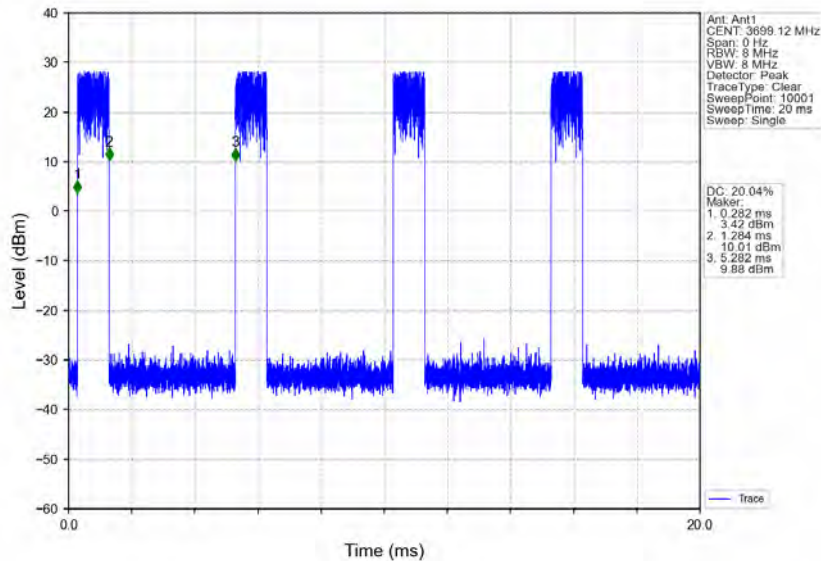
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n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3694.98MHz_Edge_1RB_Right



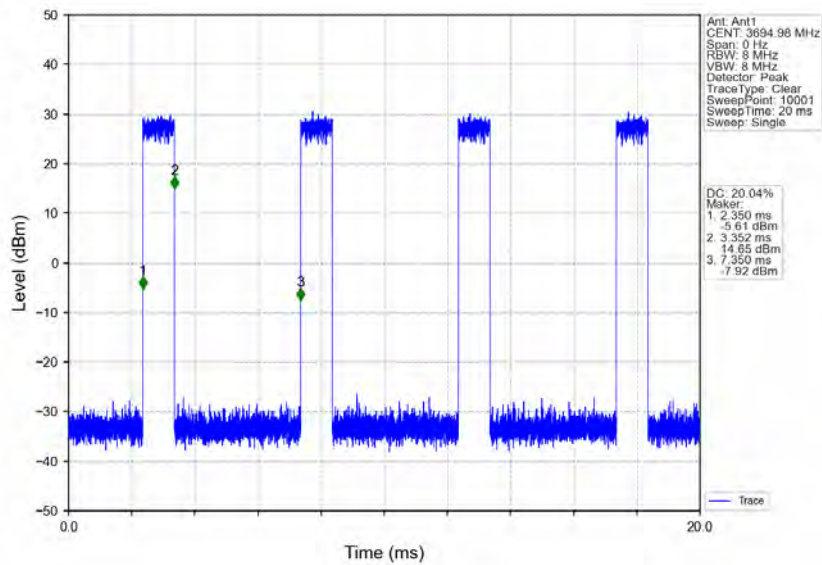
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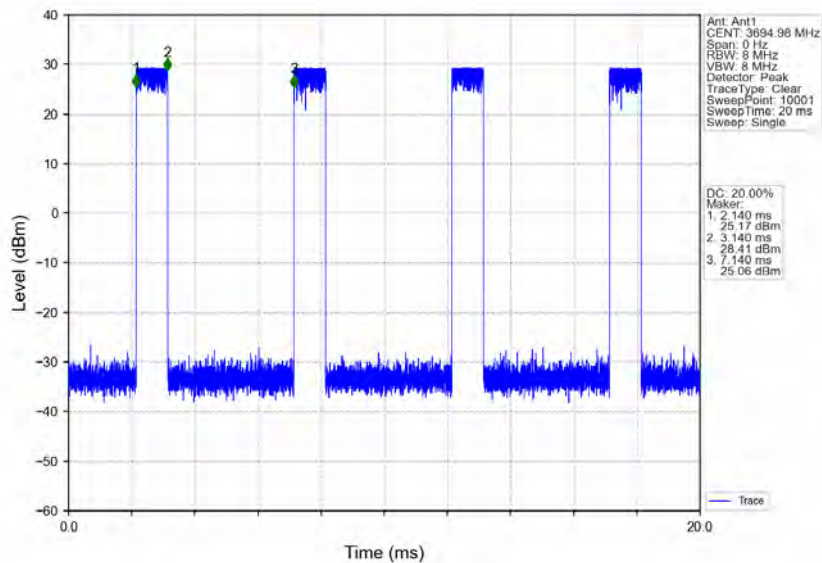
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n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM_QPSK_3694.98MHz_Outer_Full



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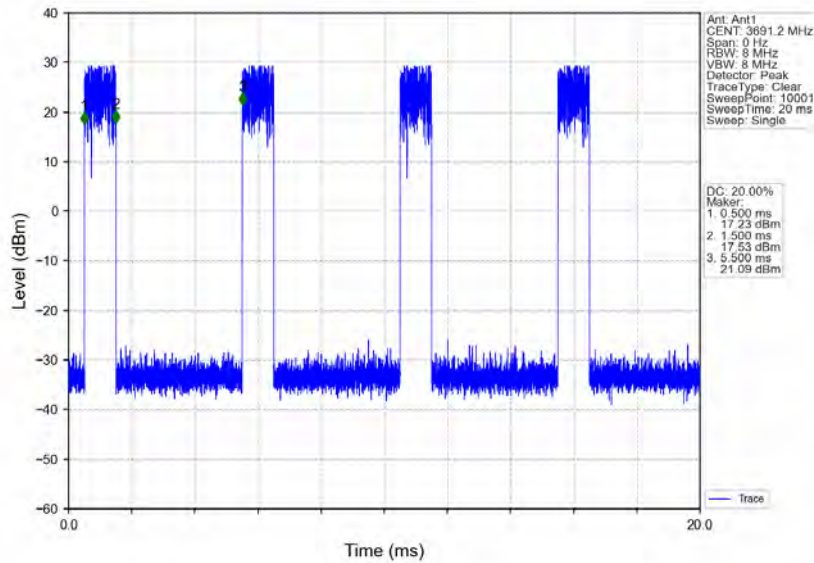
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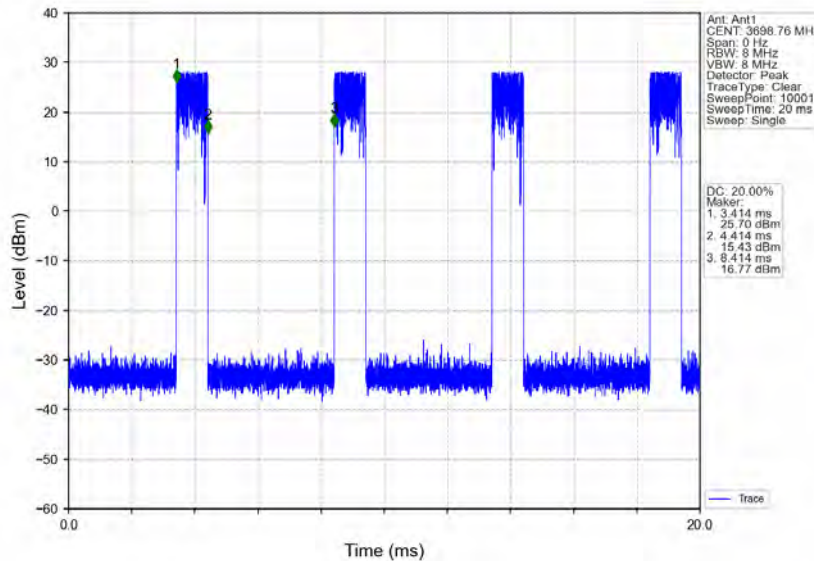
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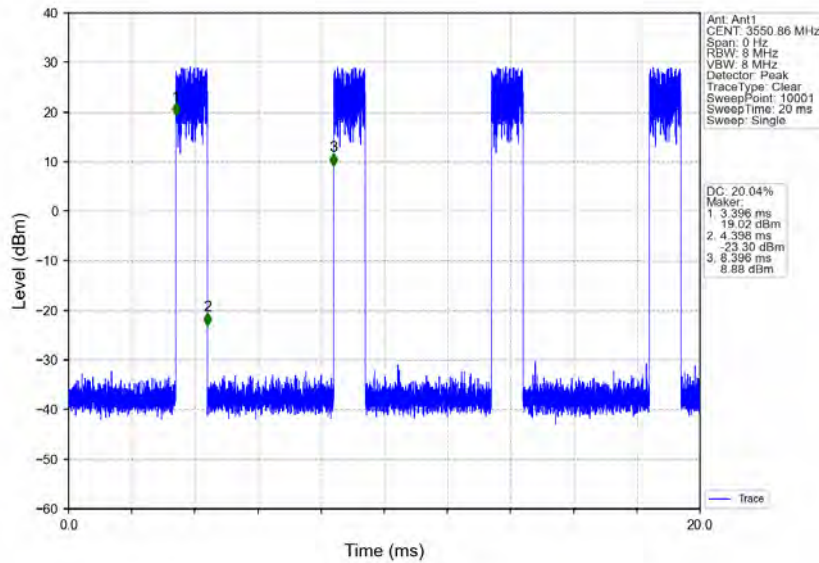
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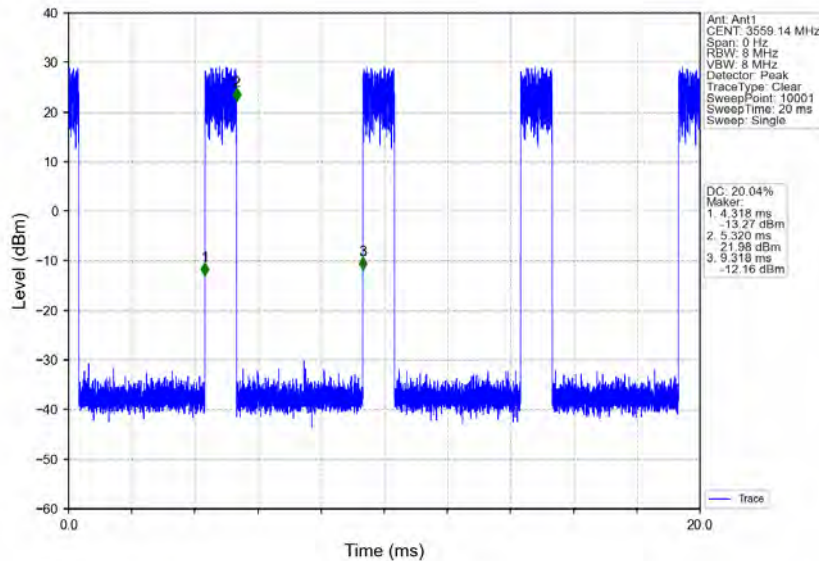
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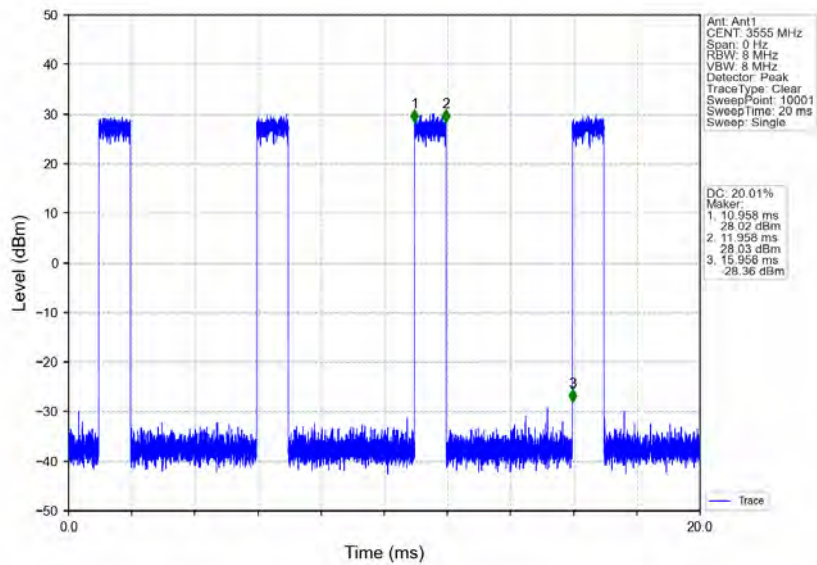
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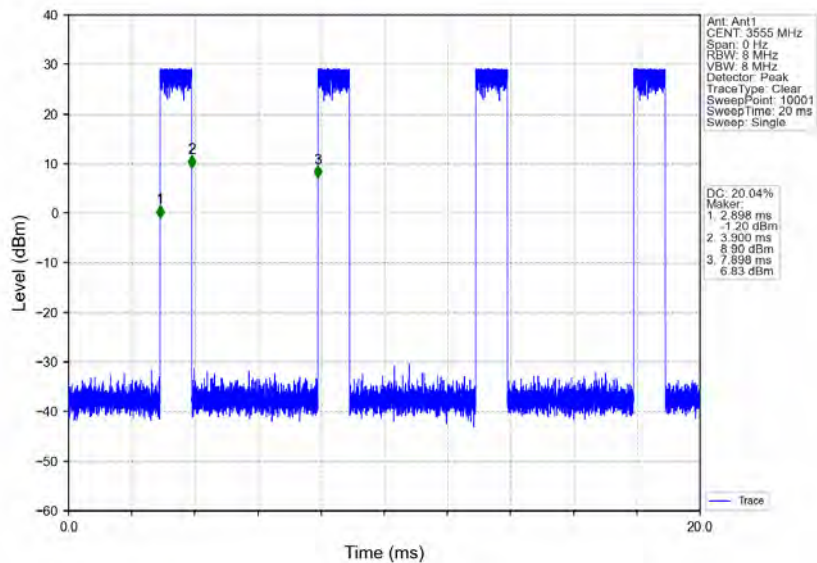
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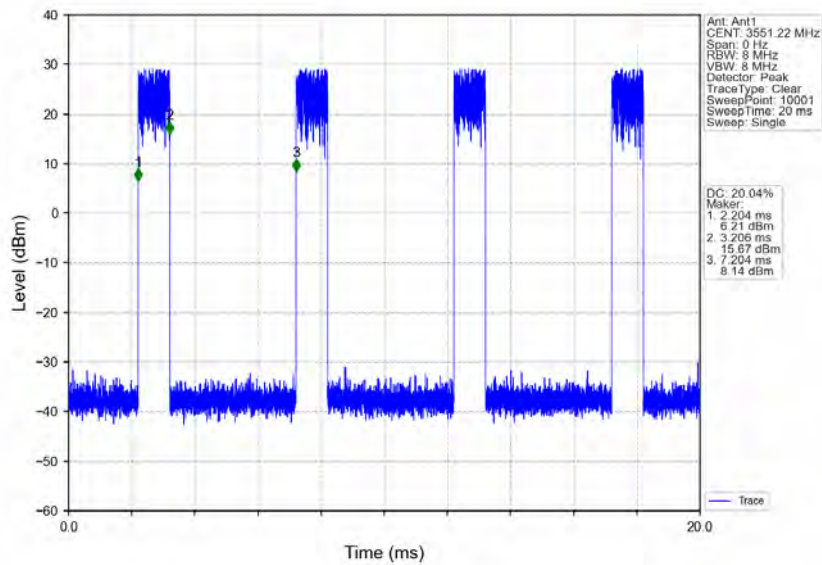
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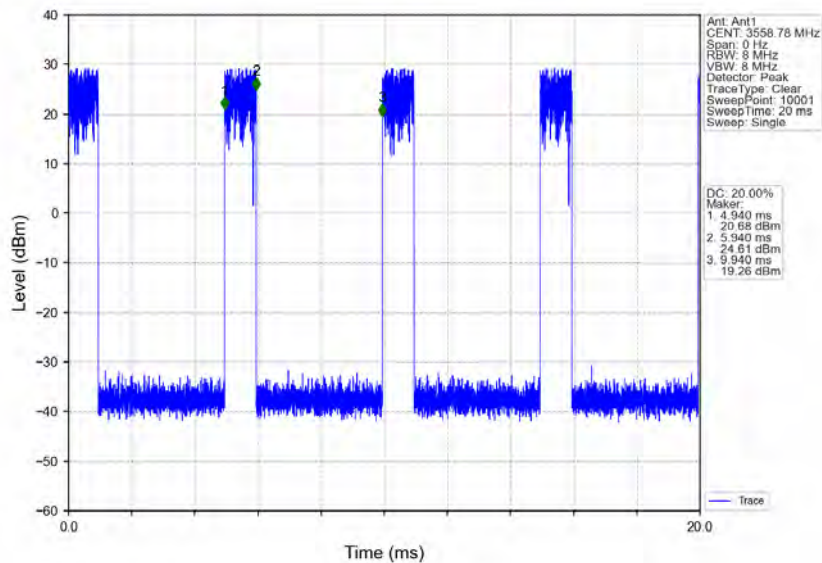
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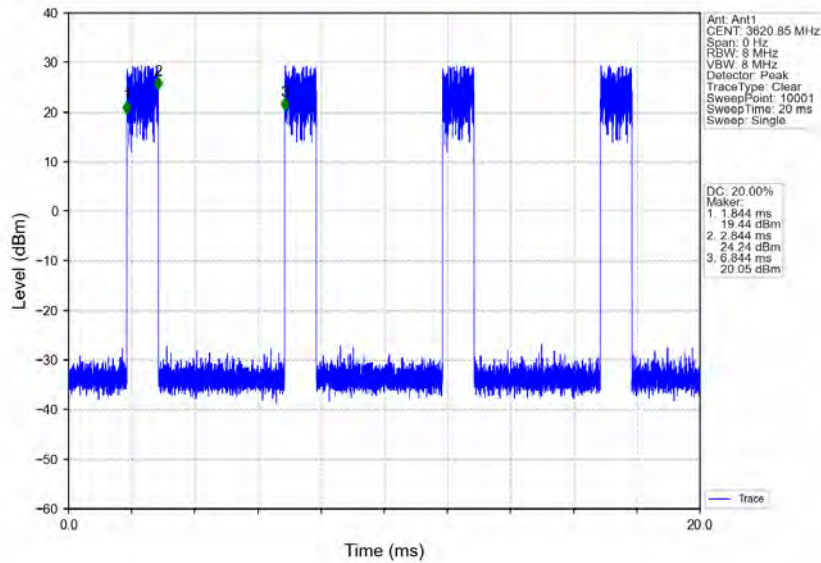
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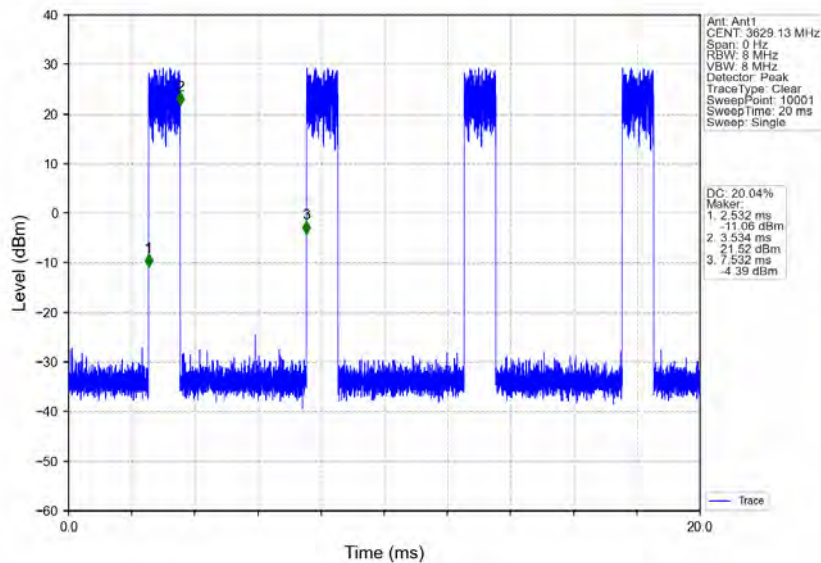
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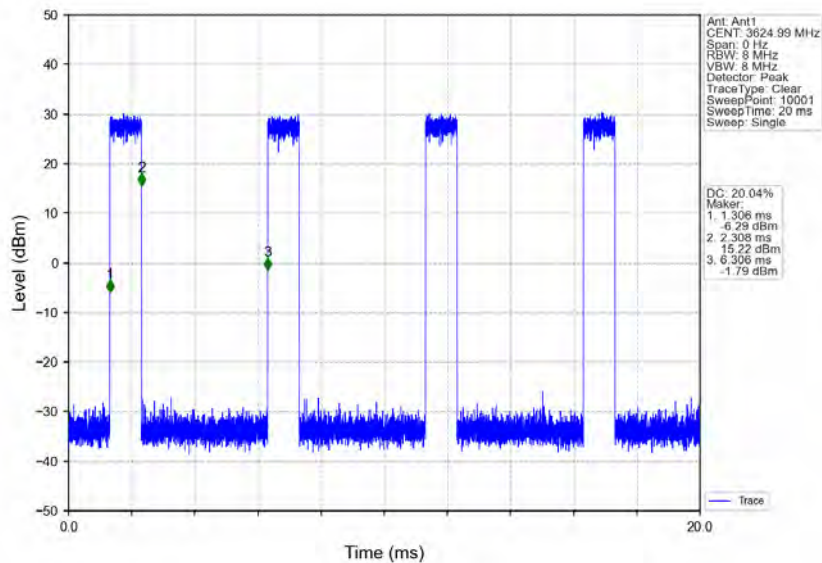
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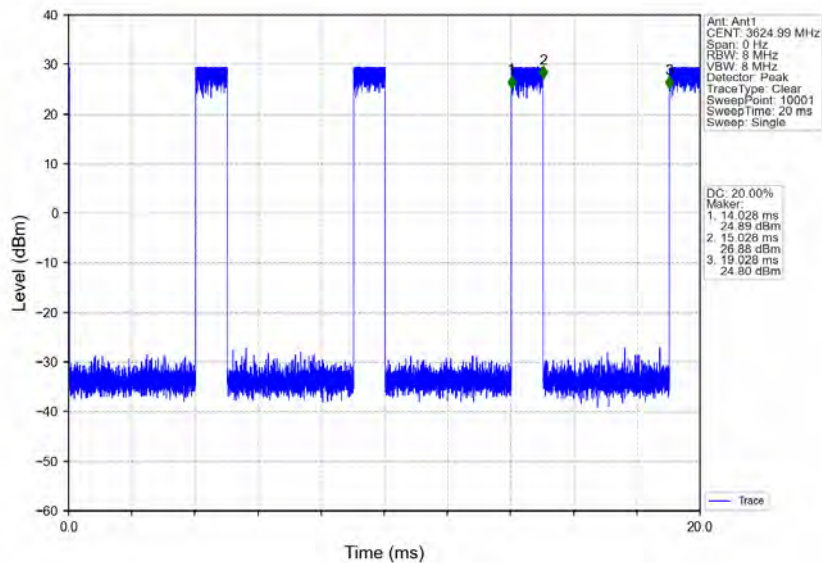
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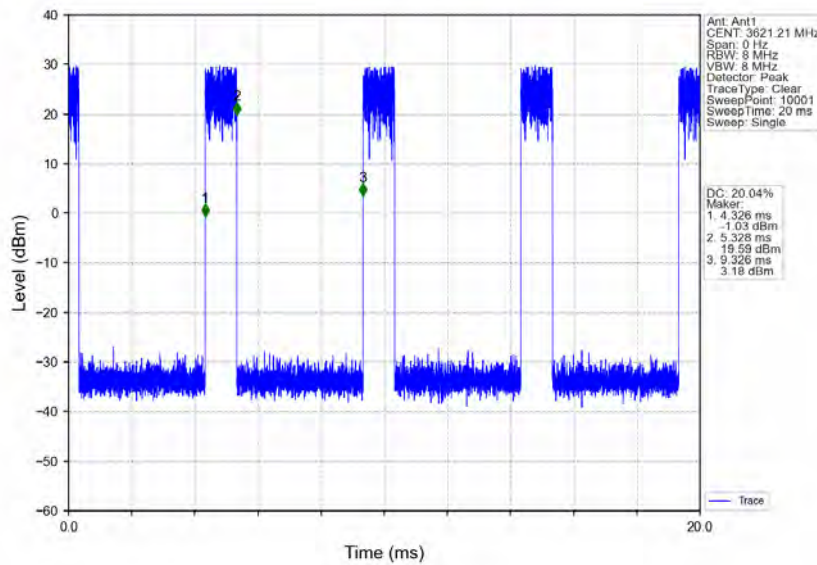
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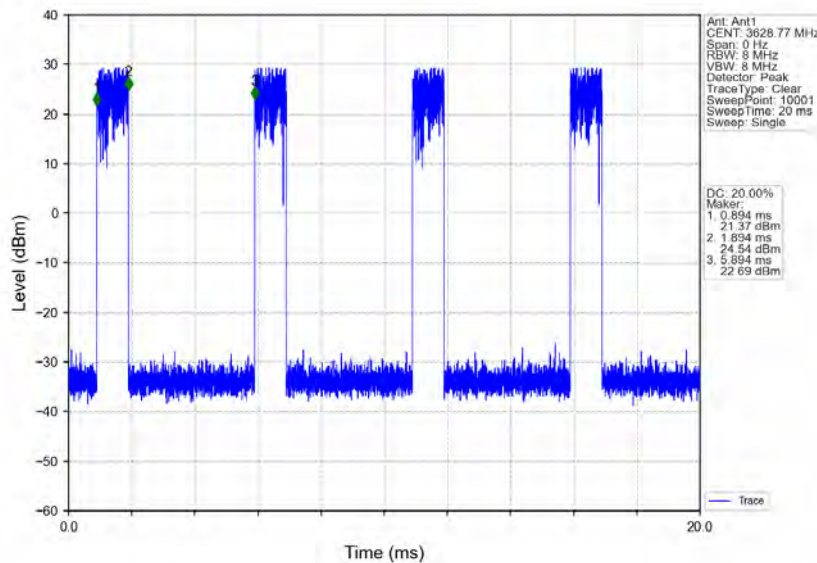
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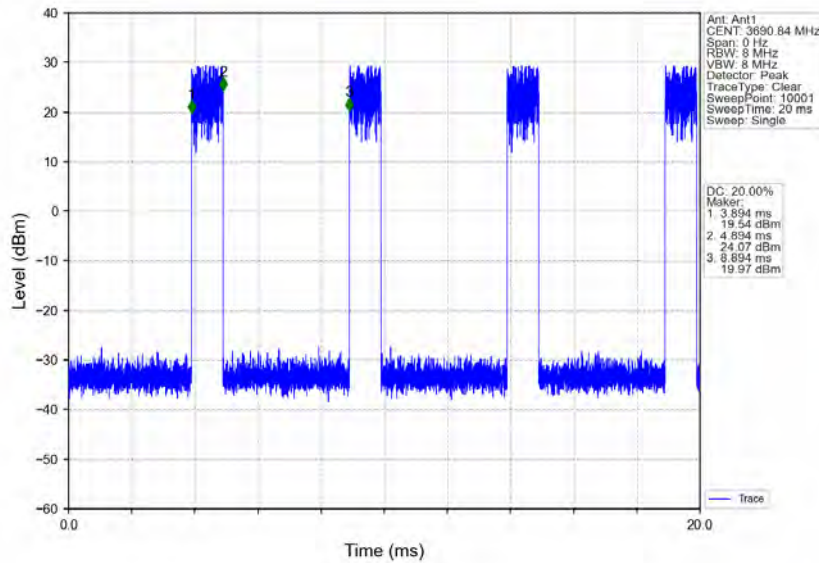
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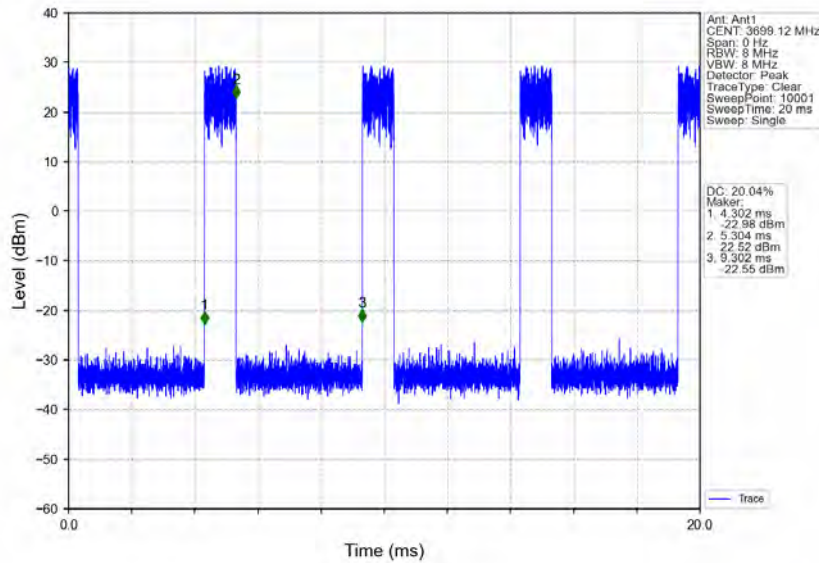
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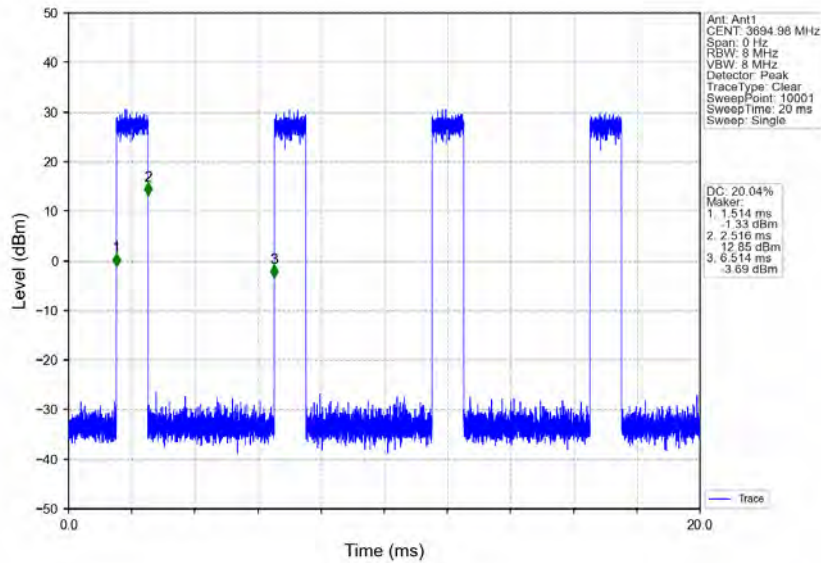
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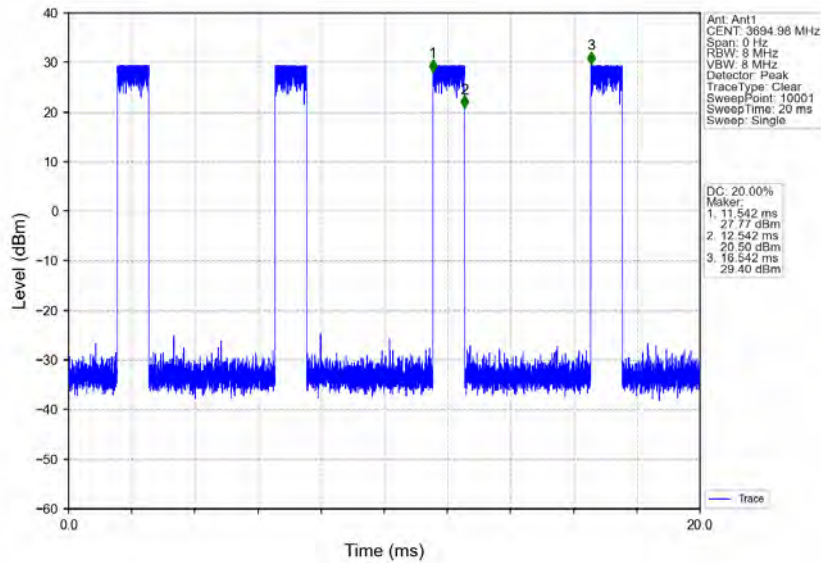
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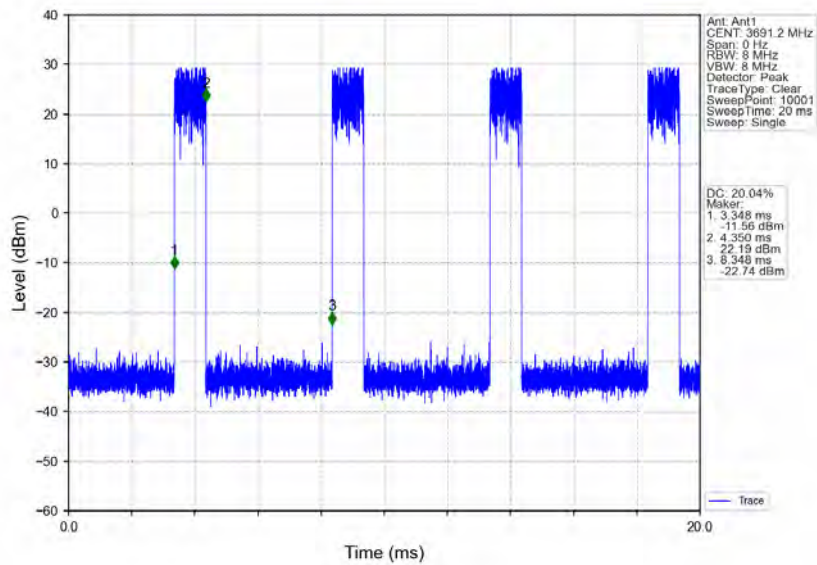
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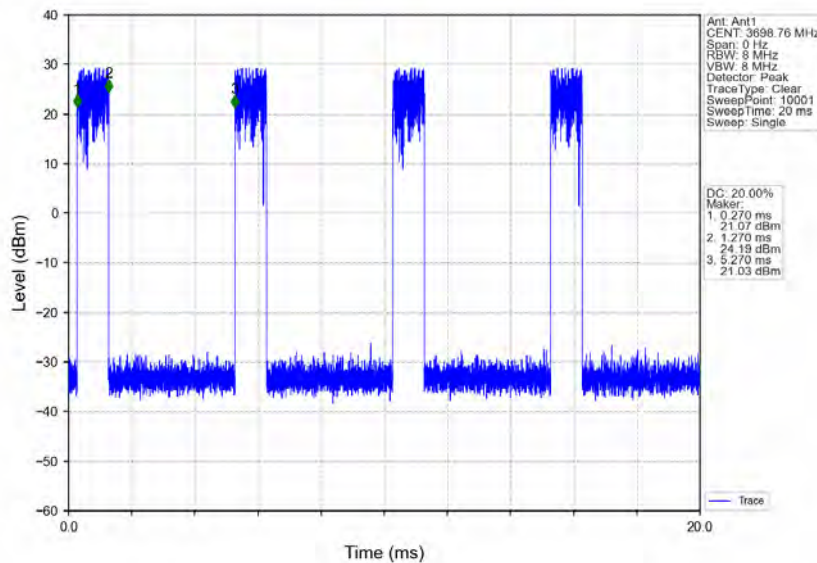
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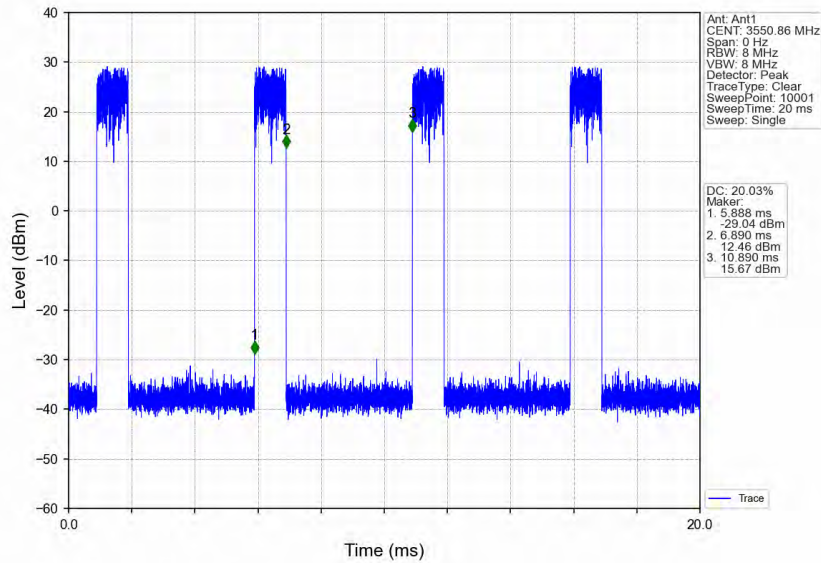
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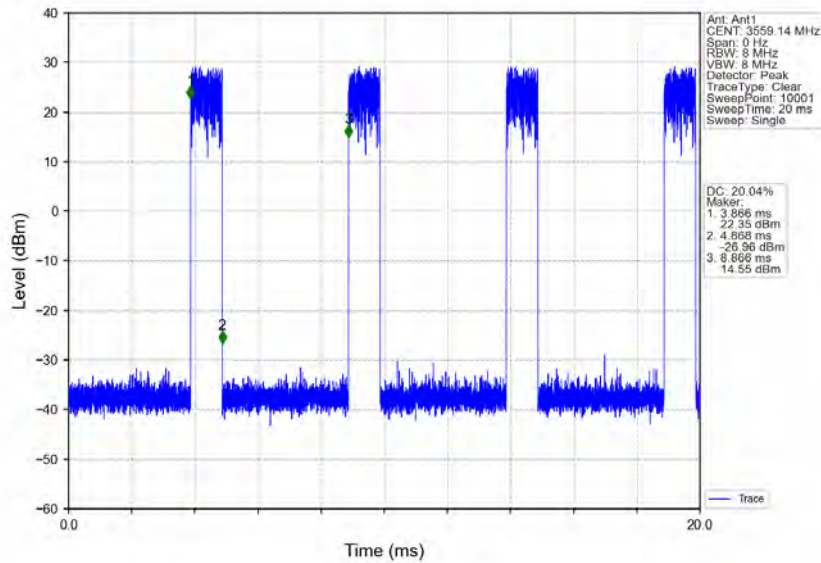
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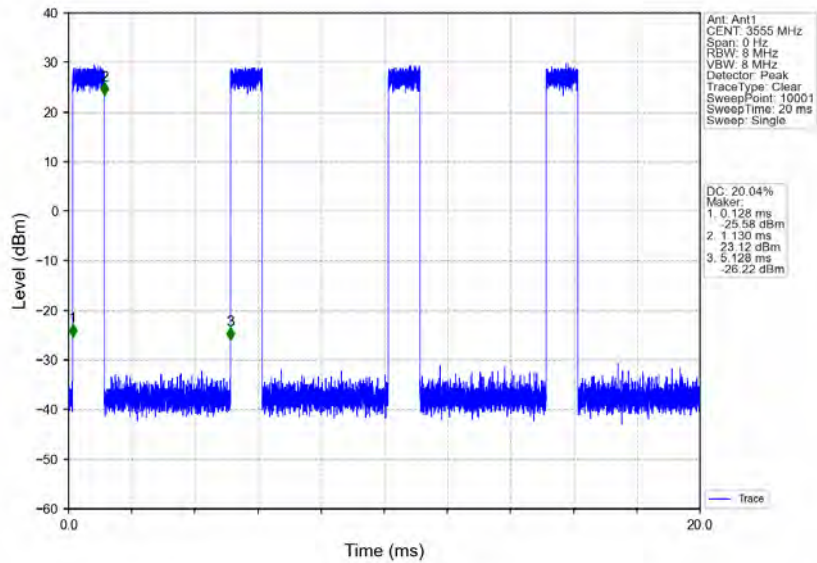
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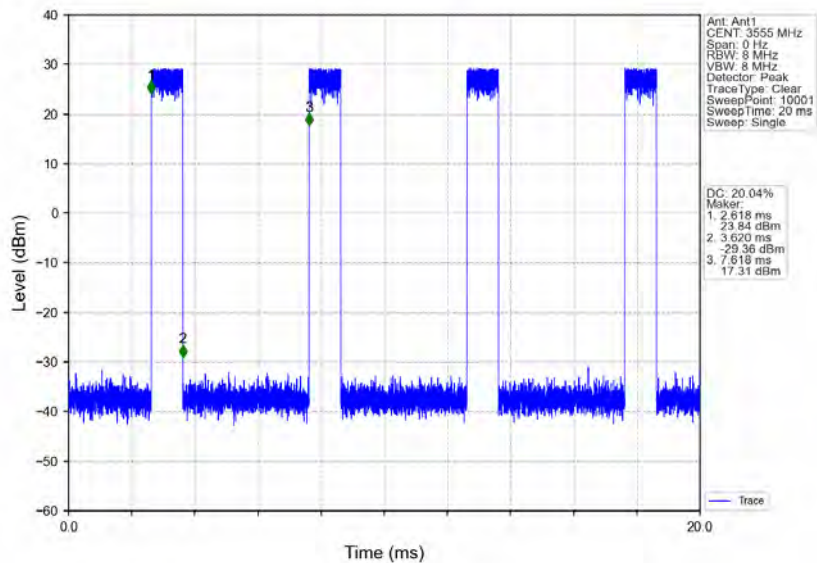
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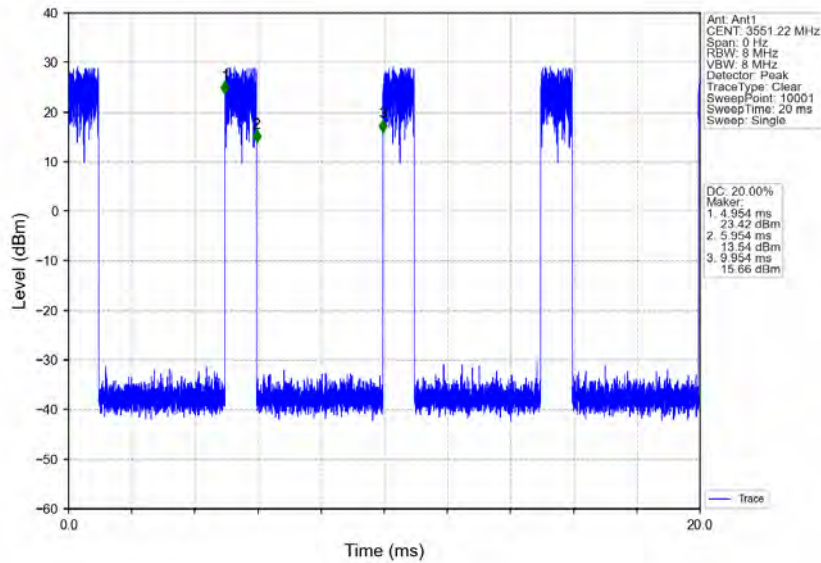
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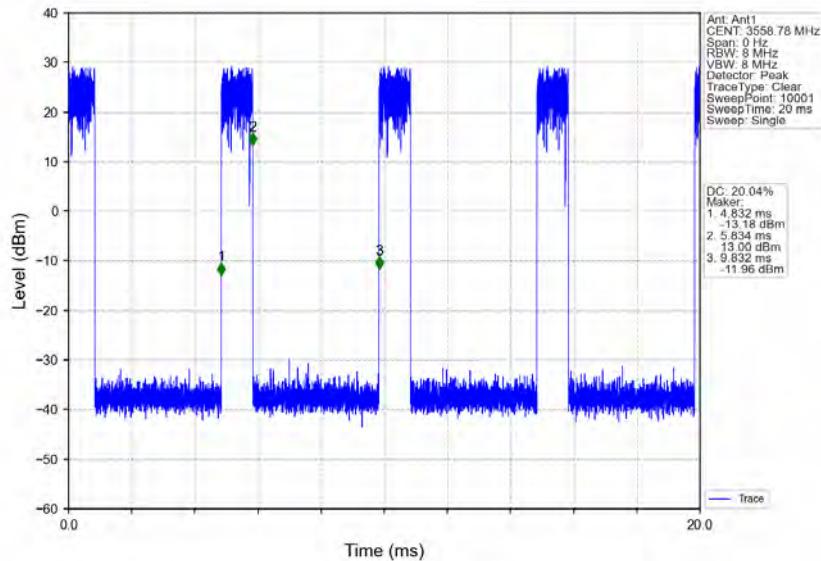
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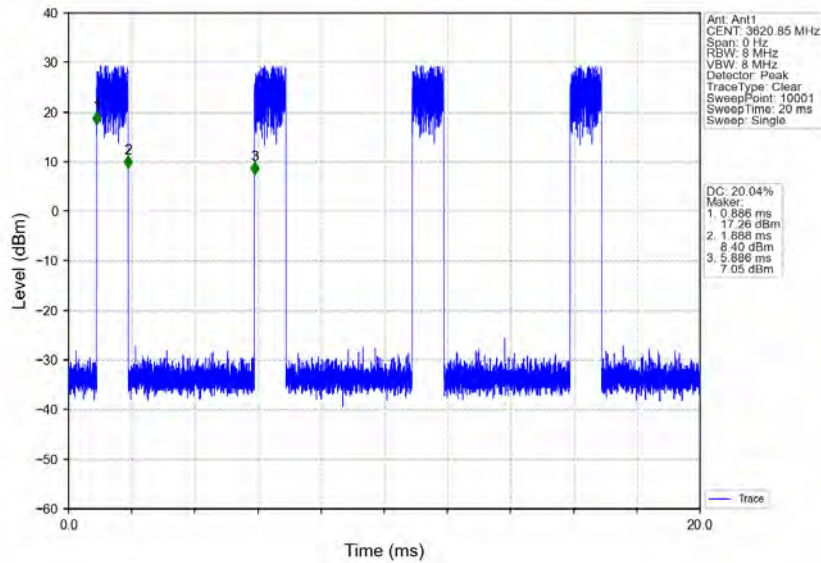
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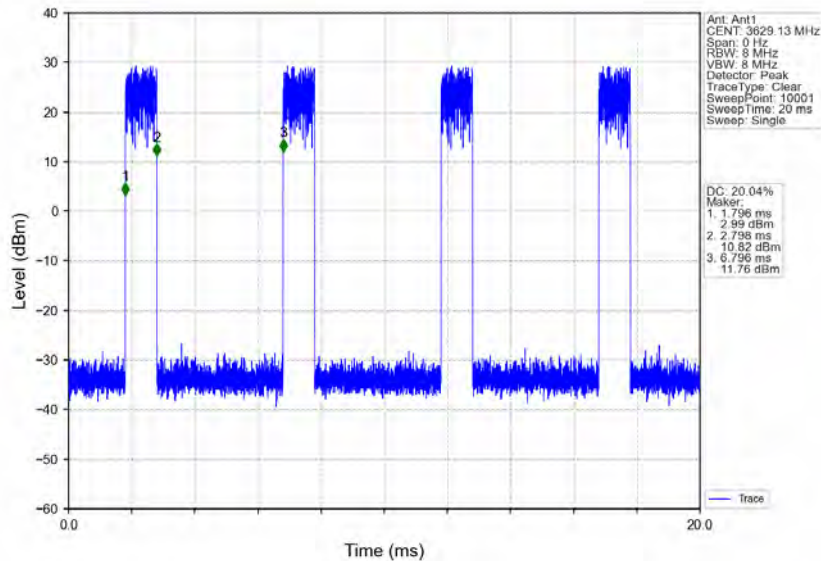
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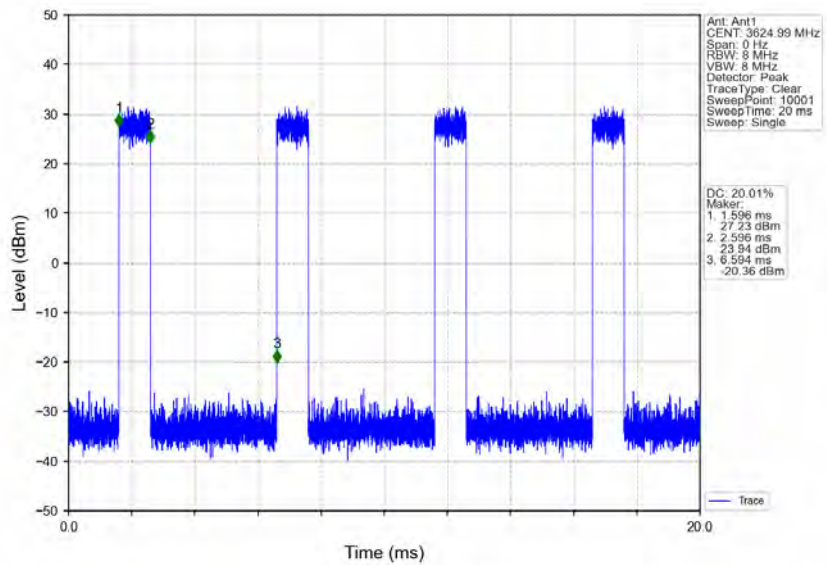
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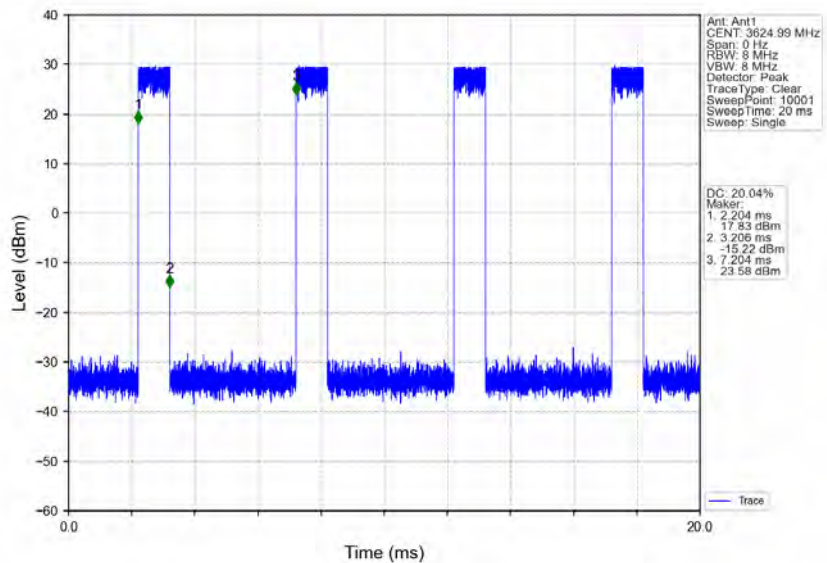
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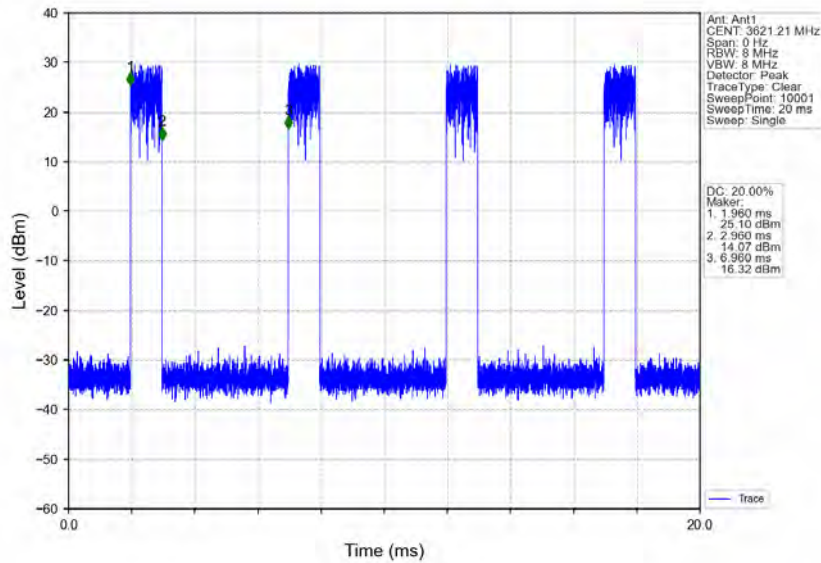
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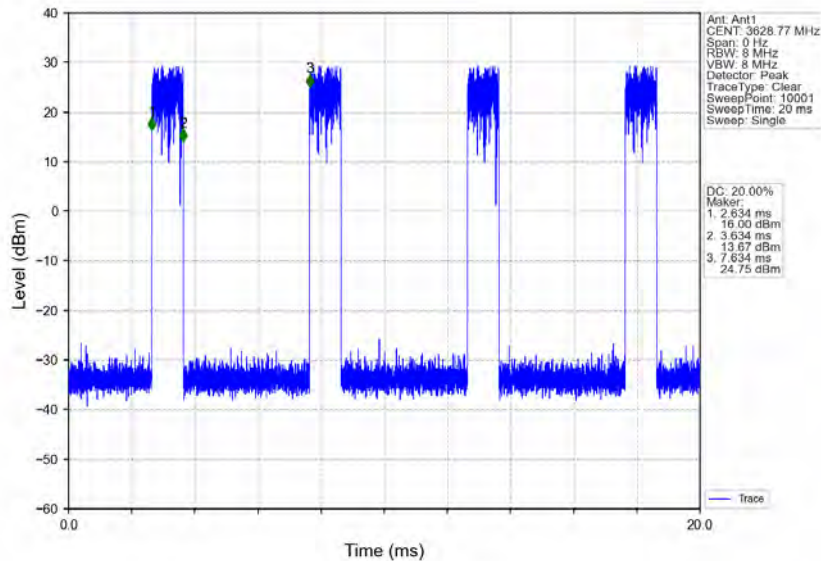
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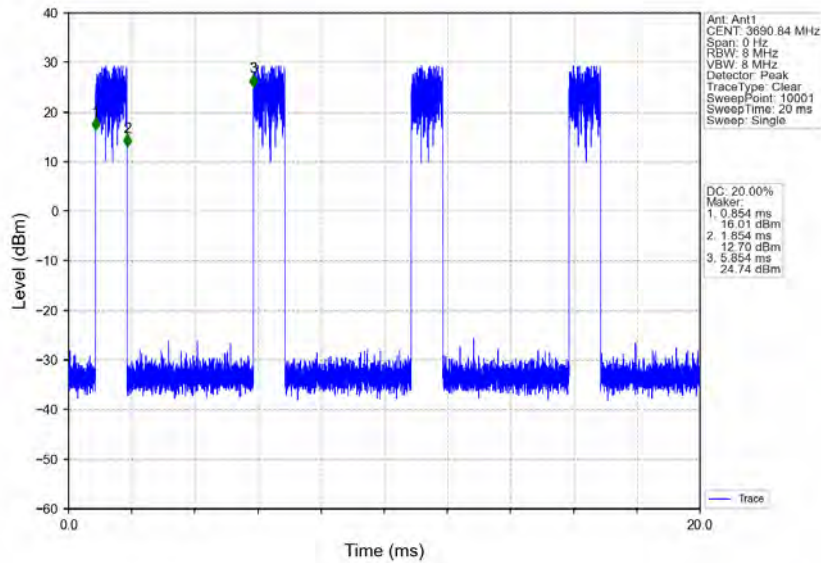
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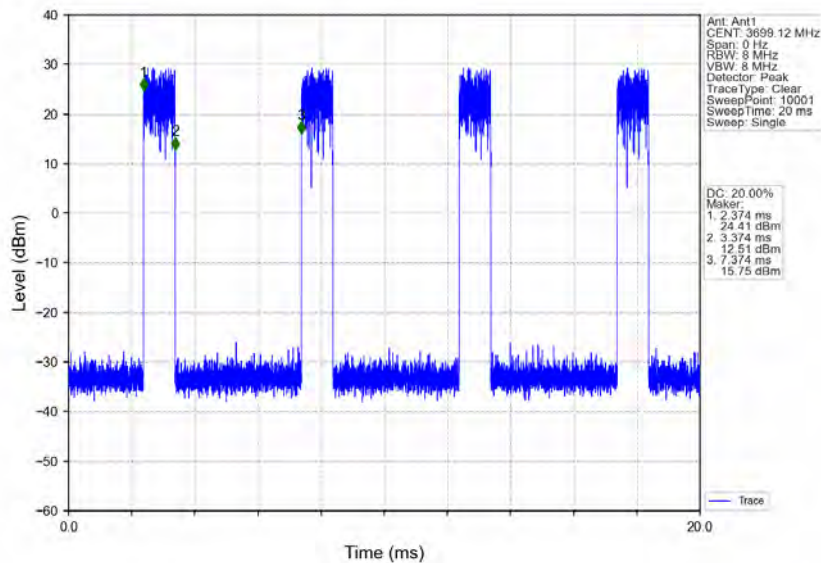
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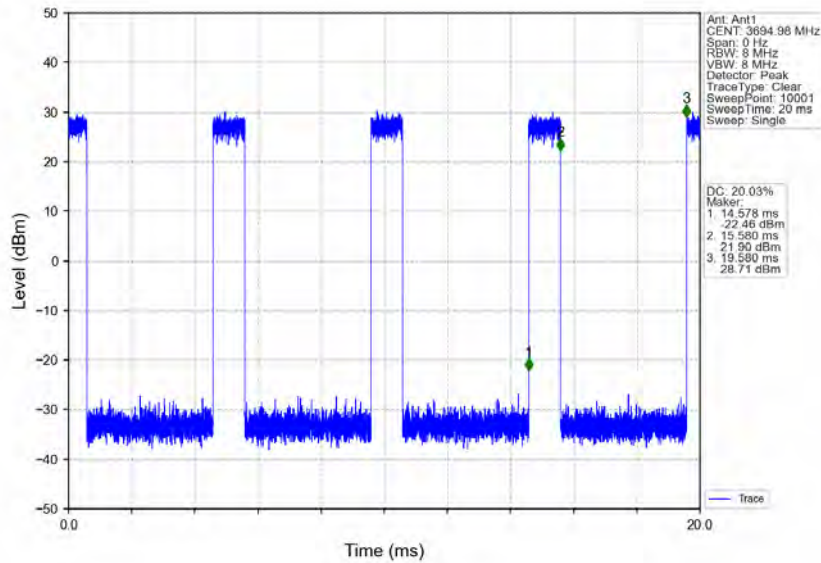
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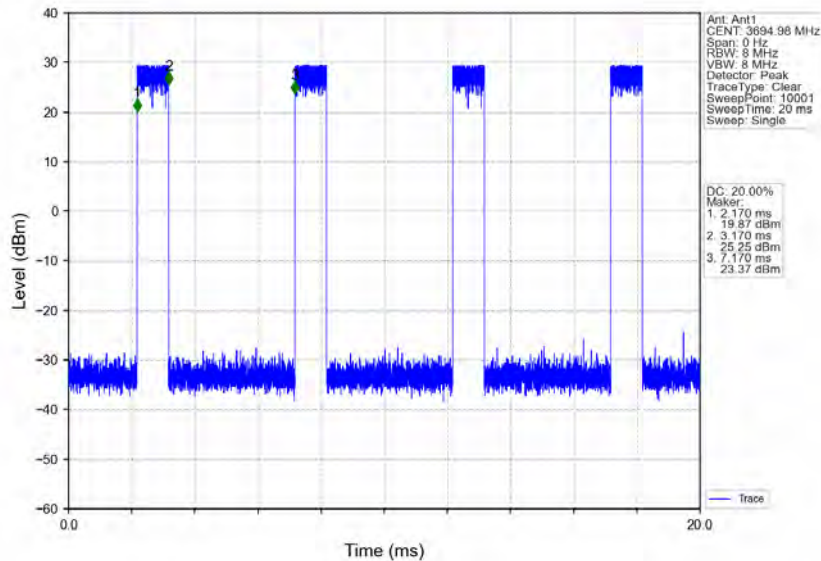
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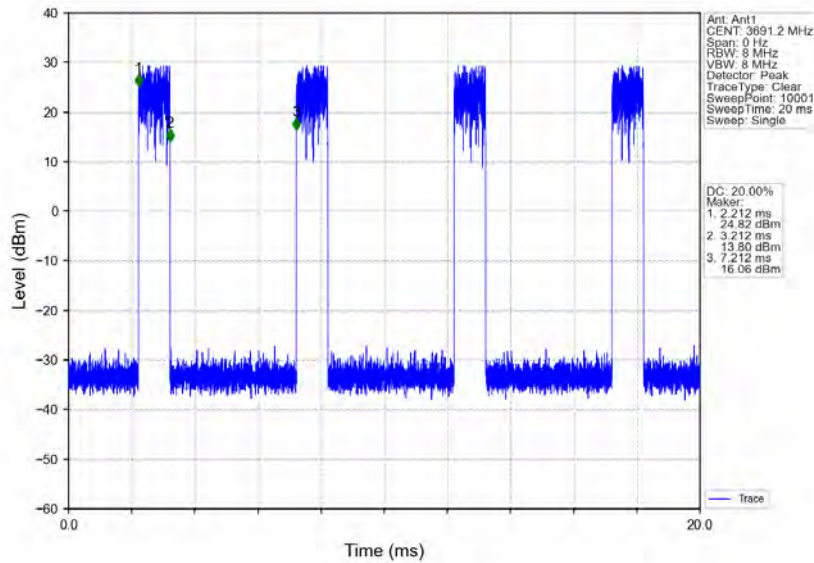
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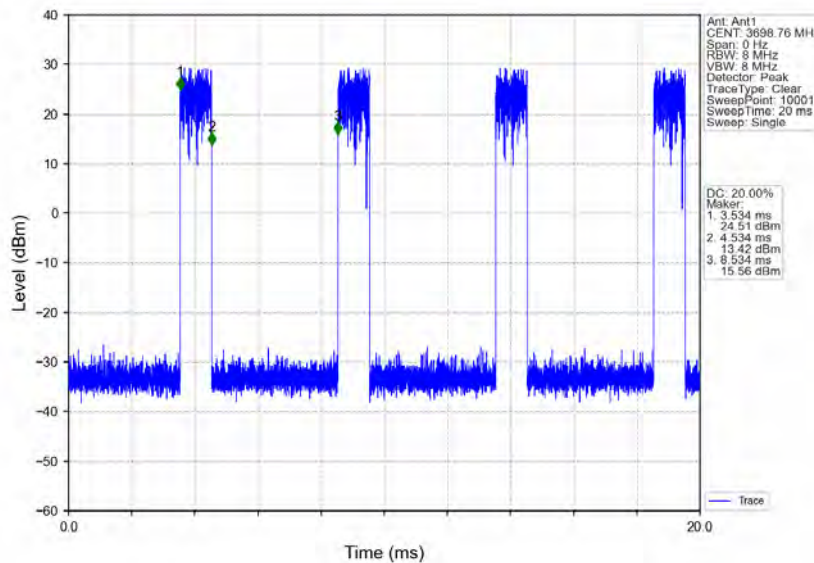
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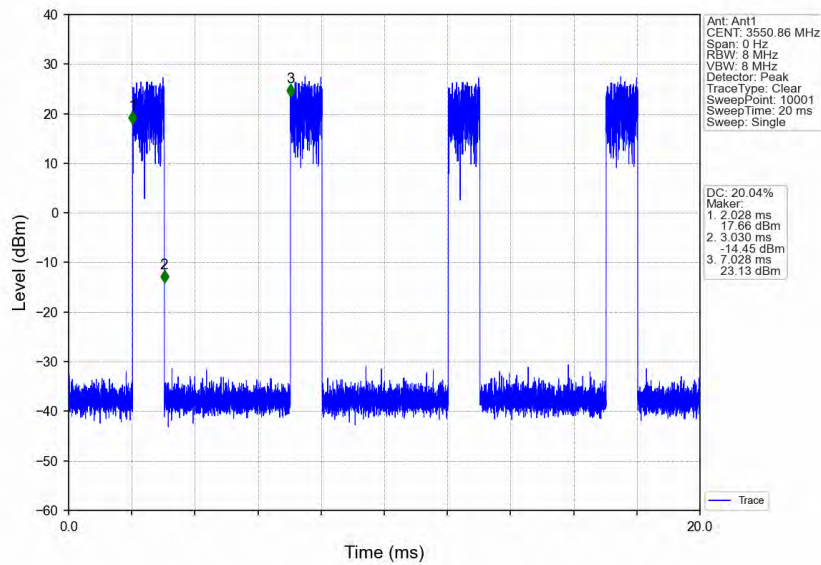
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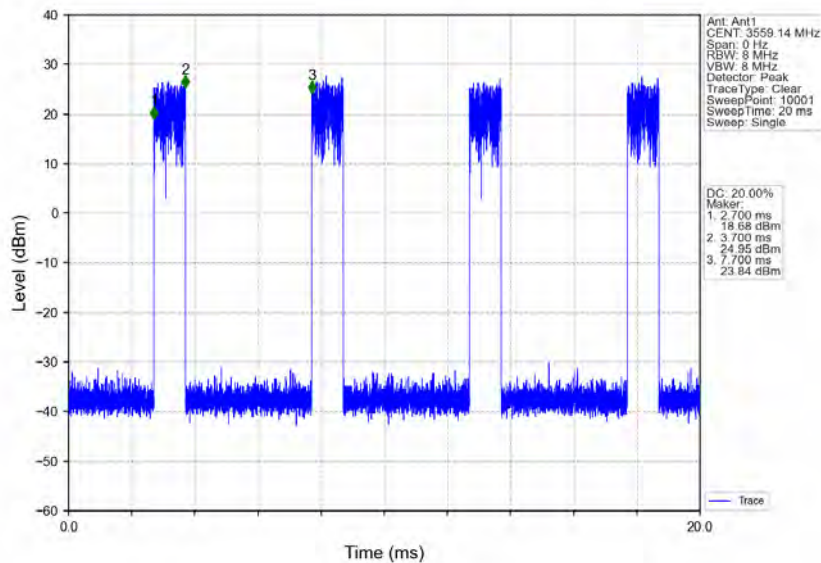
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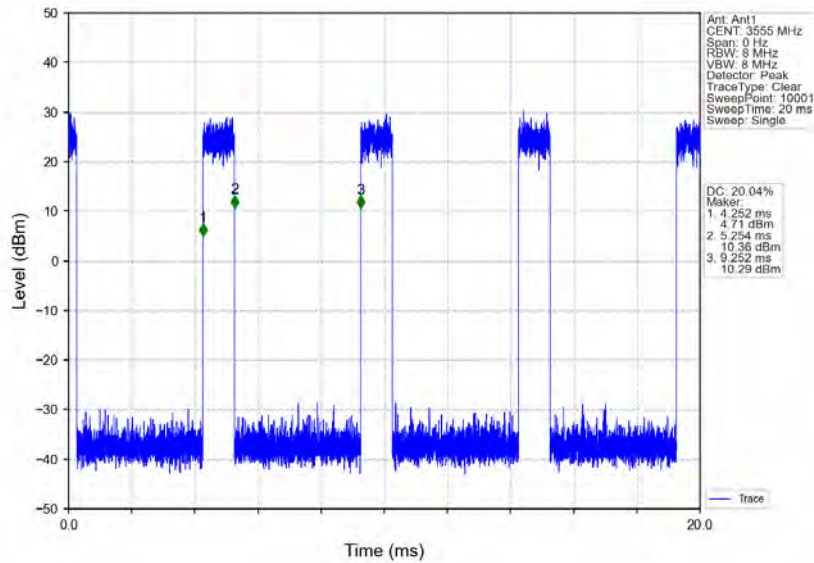
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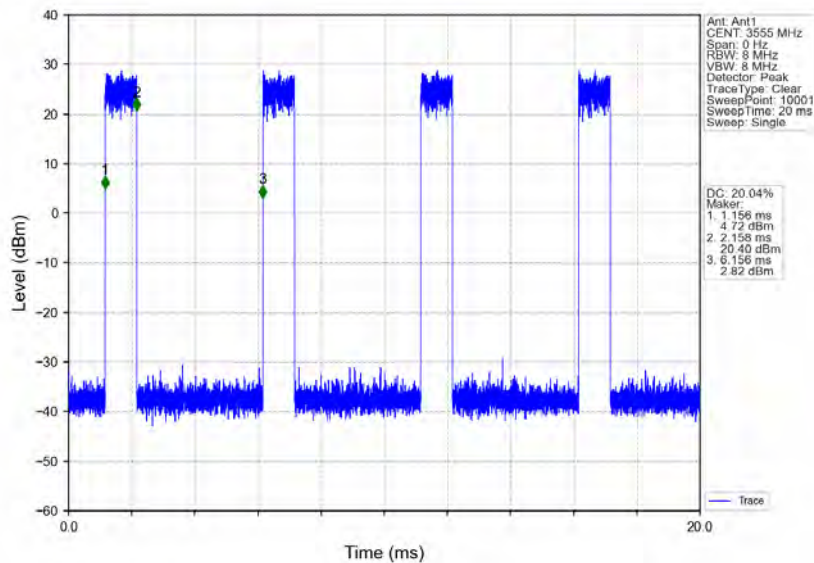
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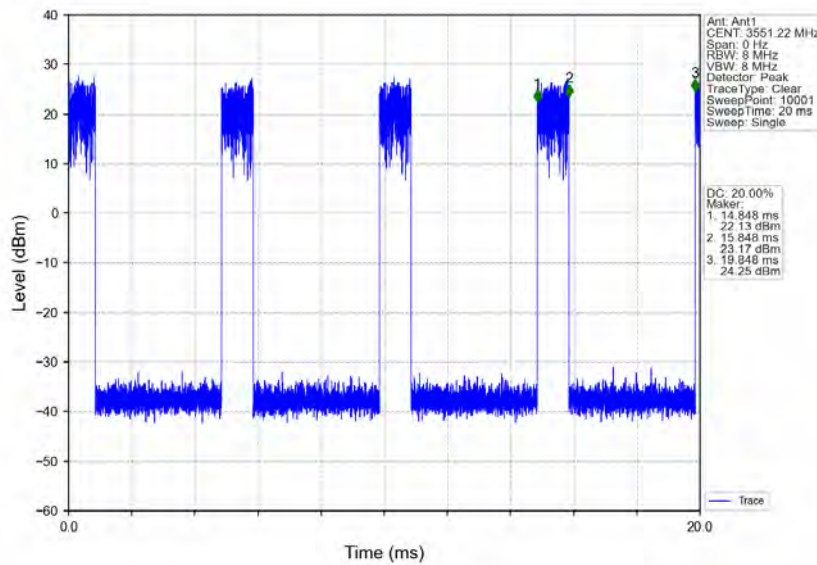
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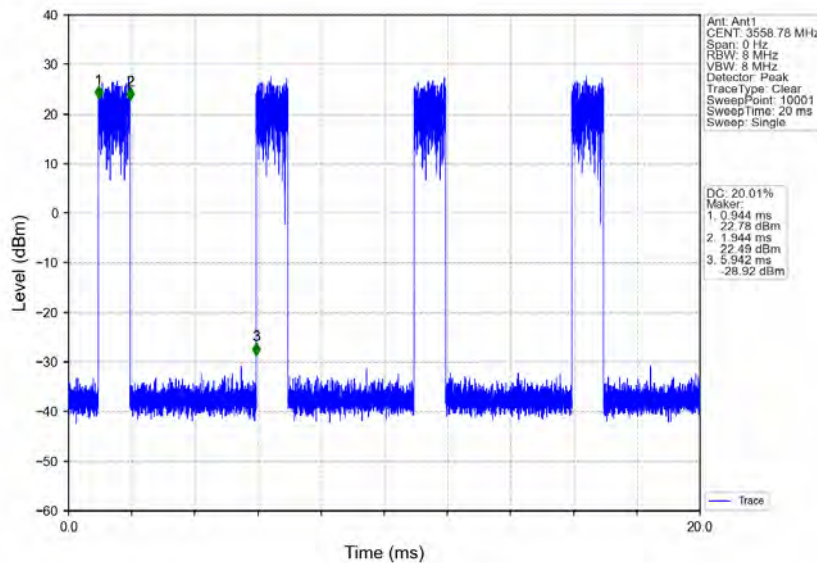
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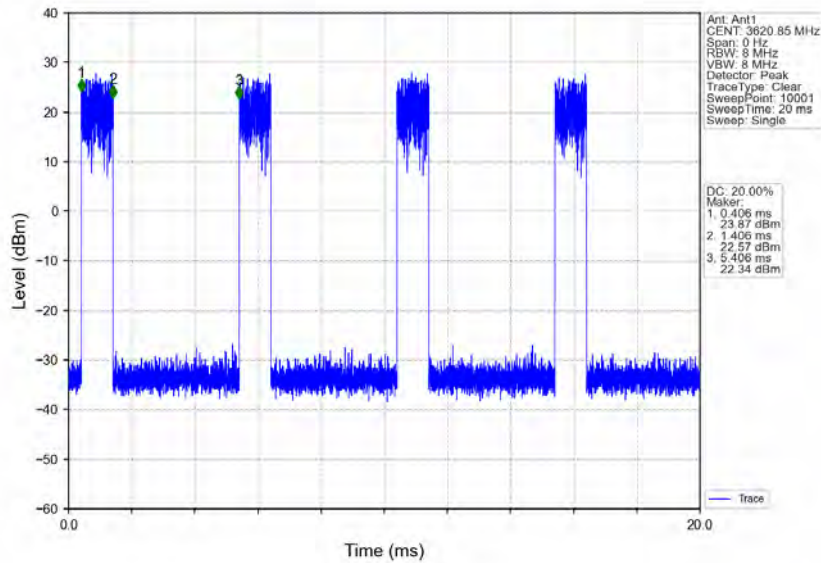
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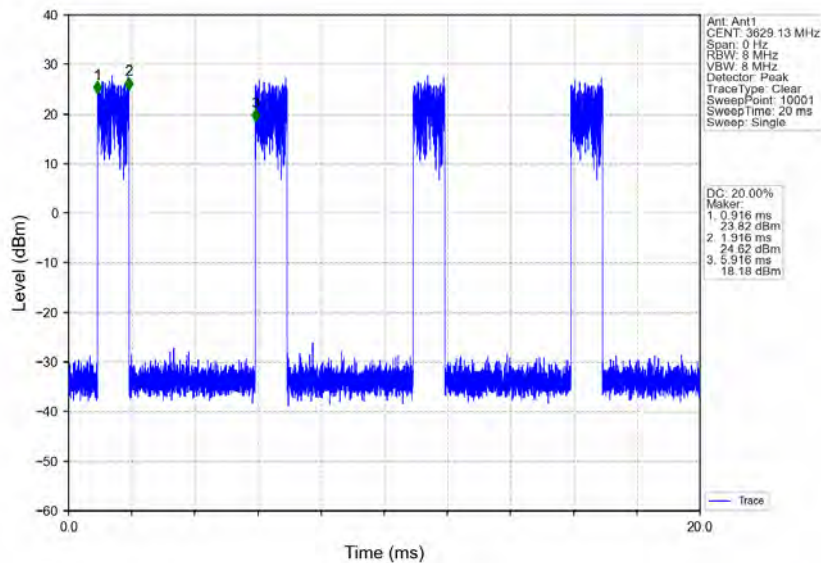
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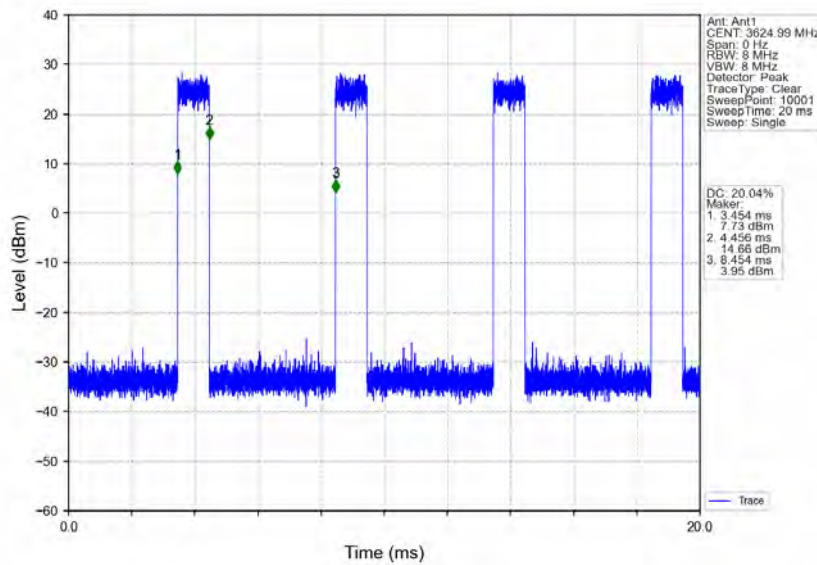
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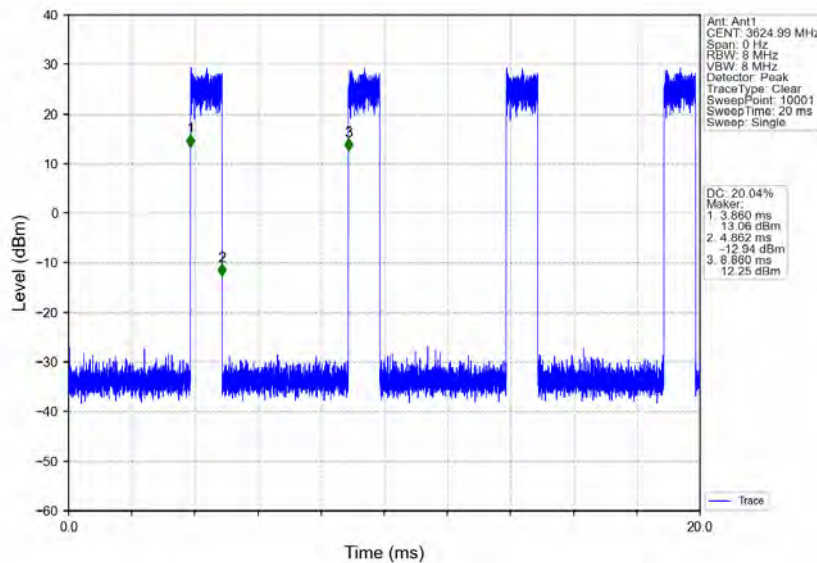
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n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM 256 QAM_3624.99MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM 256 QAM_3624.99MHz_Inner_Full



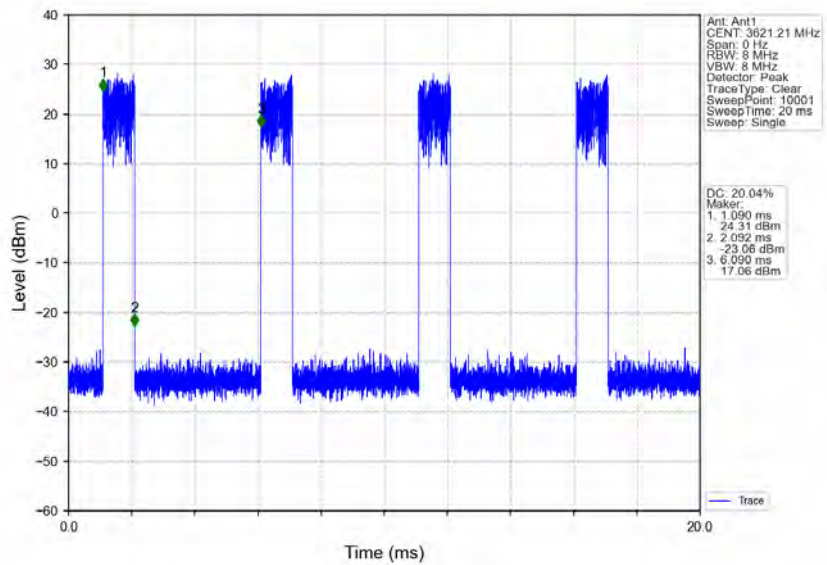
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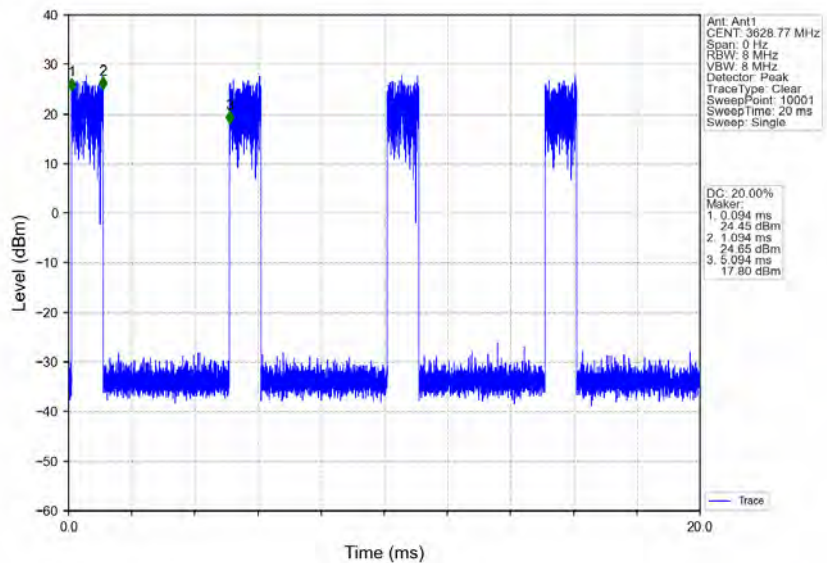
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n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM 256 QAM_3624.99MHz_Inner_1RB_Left



n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM 256 QAM_3624.99MHz_Inner_1RB_Right



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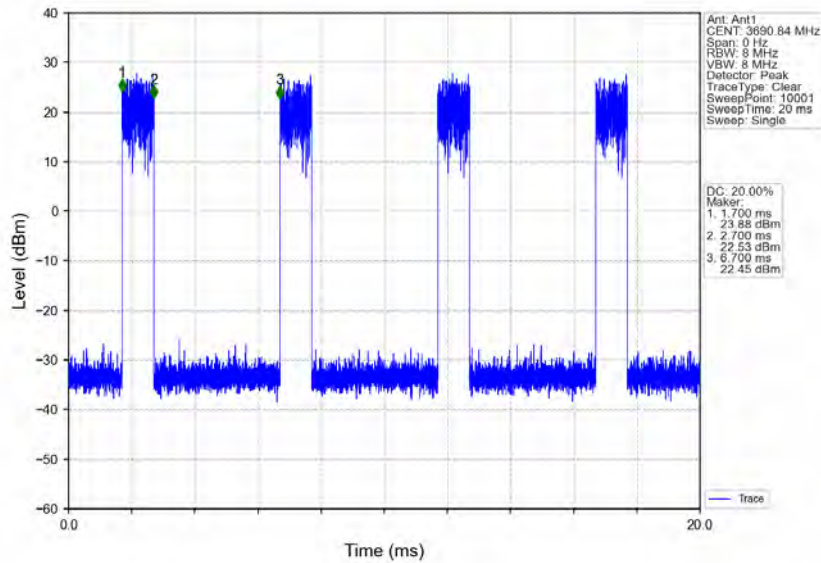
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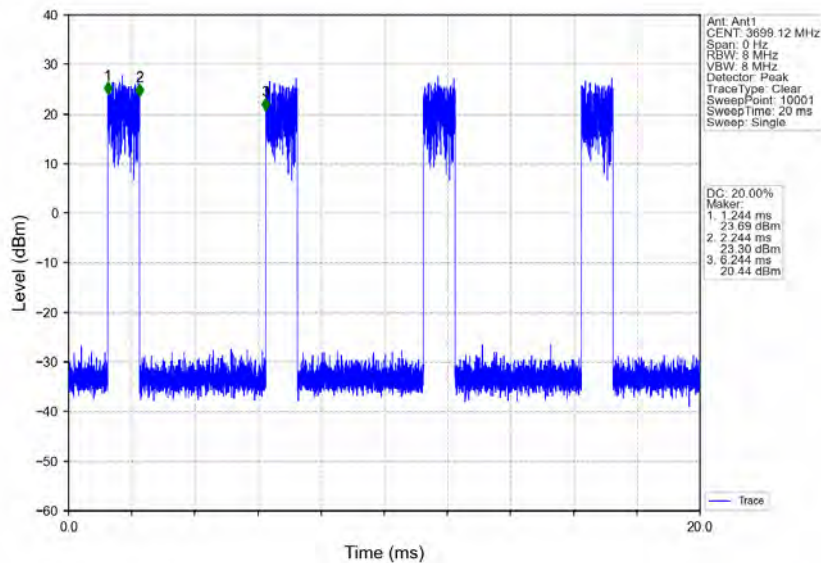
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n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM 256 QAM_3694.98MHz_Edge_1RB_Left



n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM 256 QAM_3694.98MHz_Edge_1RB_Right



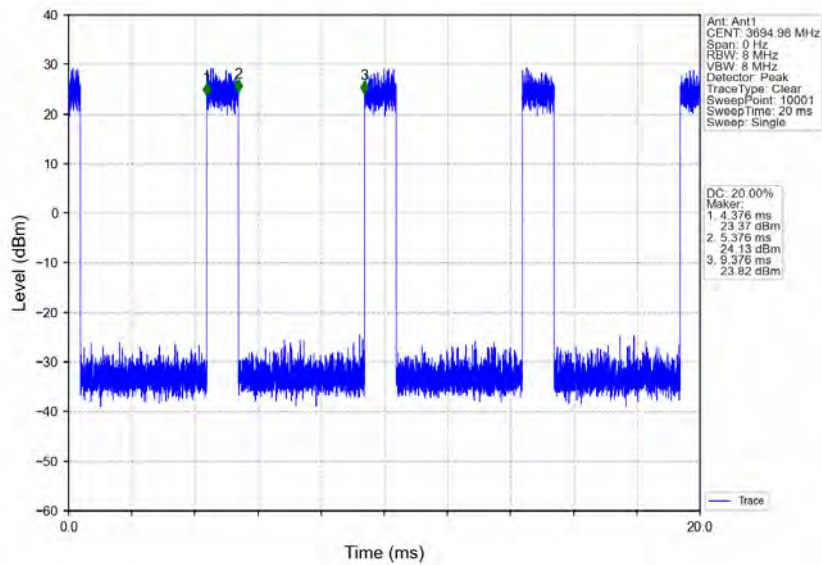
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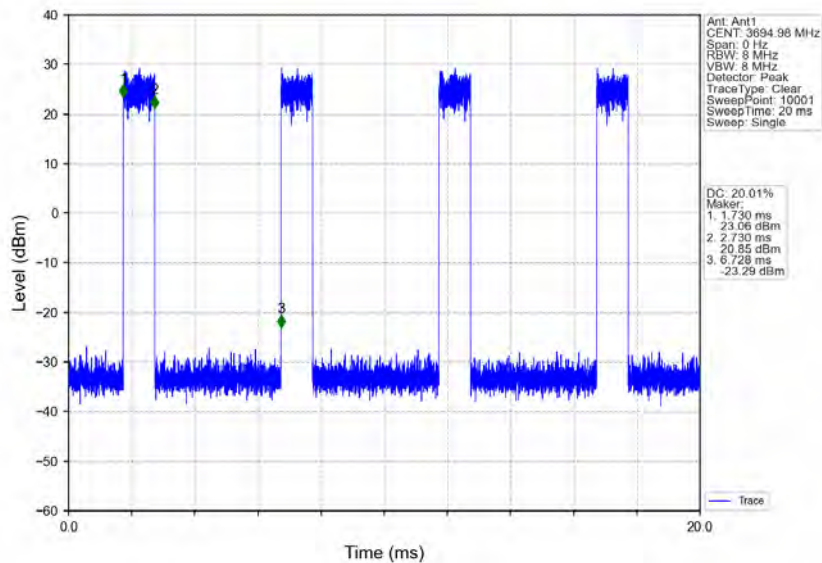
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n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM 256 QAM_3694.98MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM 256 QAM_3694.98MHz_Inner_Full



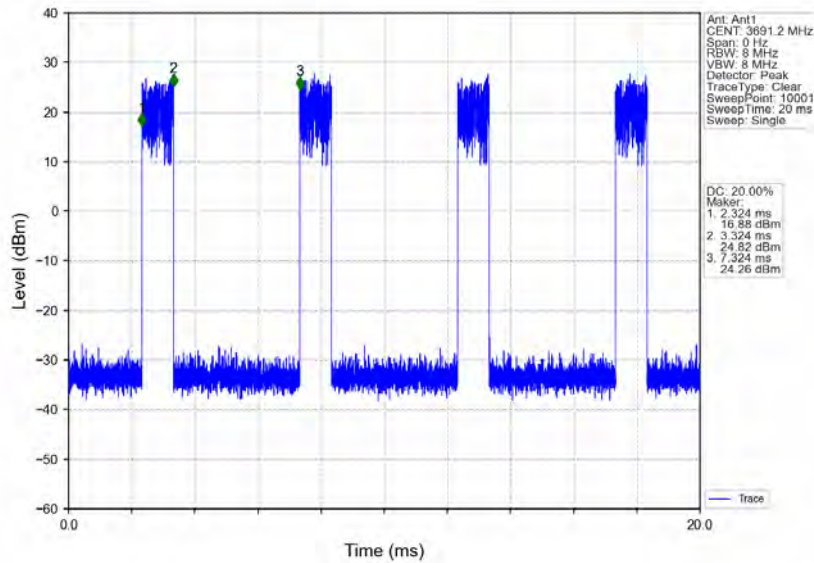
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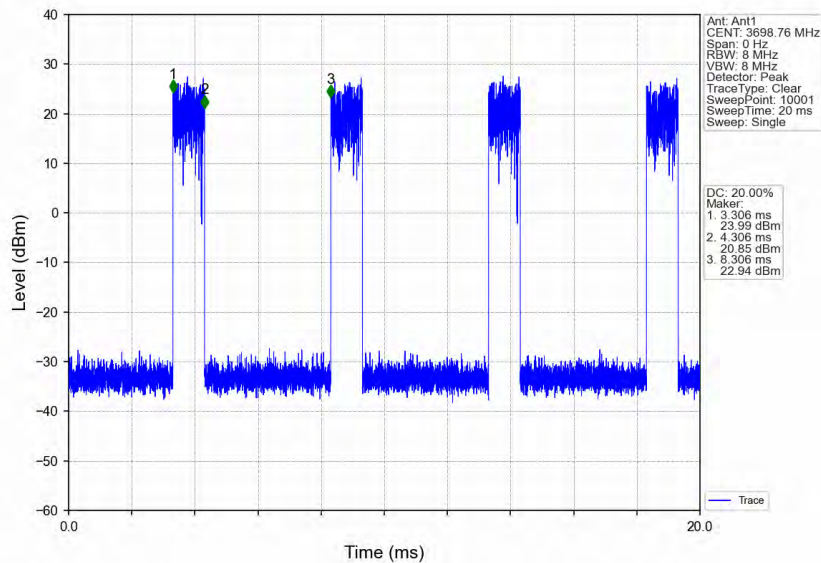
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n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM 256 QAM_3694.98MHz_Inner_1RB_Left



n78d_30kHz_MIMO_NTNV_10MHz_CP-OFDM 256 QAM_3694.98MHz_Inner_1RB_Right



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1.2 30k_MIMO_15MHz_NTNV

1.2.1 Test Result

5G NR n78d SCS=30kHz MIMO 15MHz NTV							
Modulation	Frequency (MHz)	RB Allocation	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
CP-OFDM QPSK	3557.52	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	1.002	5.000	20.04	6.98	0.00
		Inner_1RB_Left	1.000	5.000	20.00	6.99	0.03
		Inner_1RB_Right	1.000	5.000	20.00	6.99	0.03
	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	1.000	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
	3692.49	Edge_1RB_Left	1.000	5.000	20.00	6.99	0.04
		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	5.002	20.03	6.98	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
CP-OFDM 16 QAM	3557.52	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	1.002	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
		Outer_Full	1.000	5.000	20.00	6.99	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
	3692.49	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	1.000	5.000	20.00	6.99	0.03
		Inner_Full	1.000	4.998	20.01	6.99	0.02
		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
CP-OFDM 64 QAM	3557.52	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	5.000	20.04	6.98	0.00
		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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		Outer_Full	1.002	5.002	20.03	6.98	0.01	
		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	1.002	5.000	20.04	6.98	0.00	
	3692.49		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	1.000	4.998	20.01	6.99	0.03
	CP-OFDM 256 QAM	3557.52	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
			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
3624.99			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	1.002	5.000	20.04	6.98	0.00
			Inner_1RB_Right	1.002	5.000	20.04	6.98	0.00
3692.49			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	0.00
			Inner_Full	1.002	5.002	20.03	6.98	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	

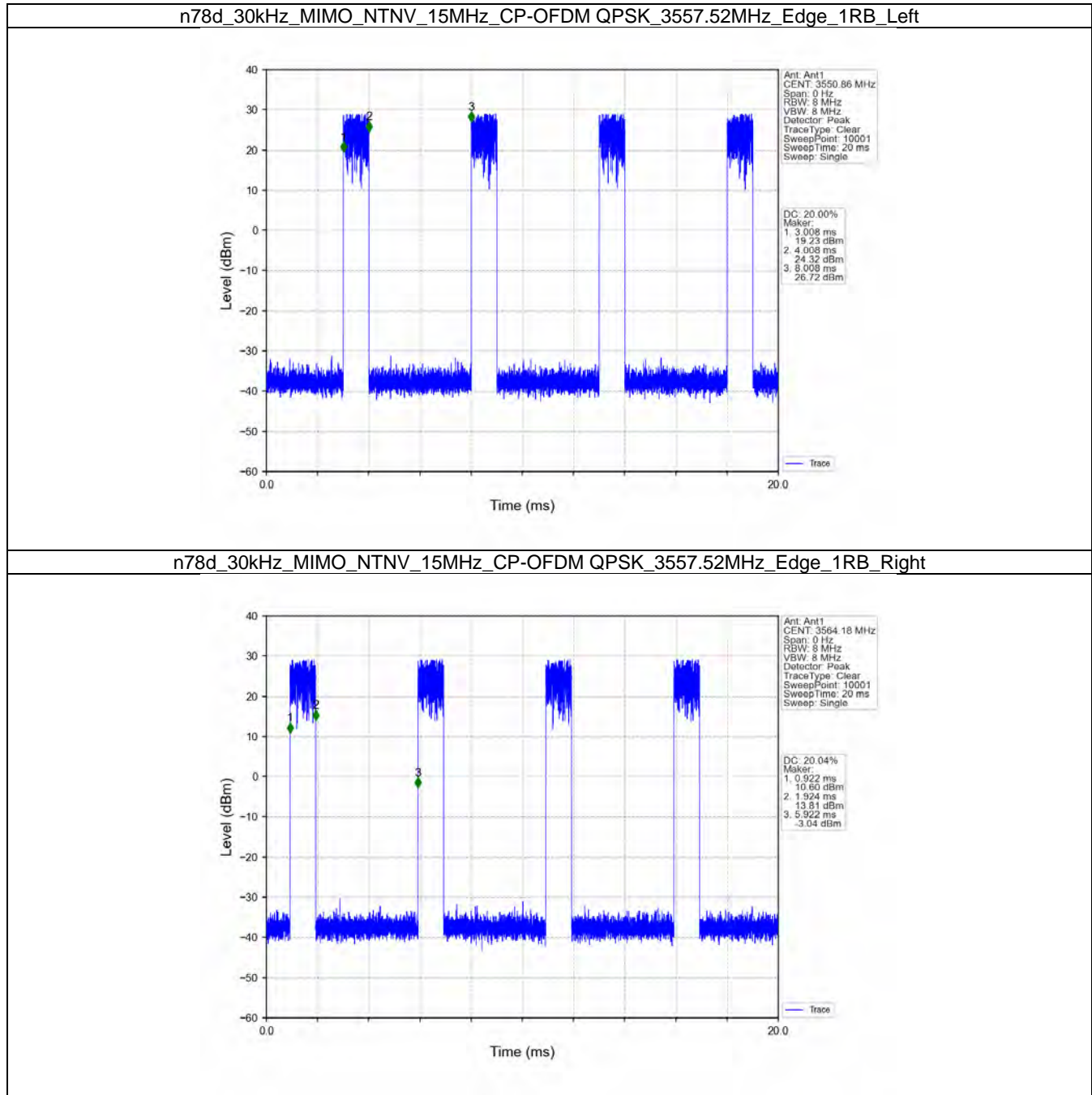


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1.2.2 Test Graph

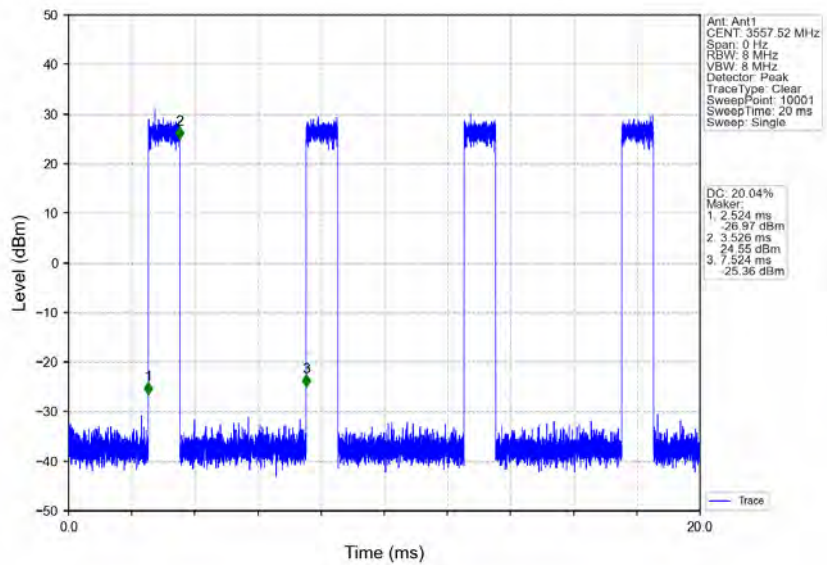


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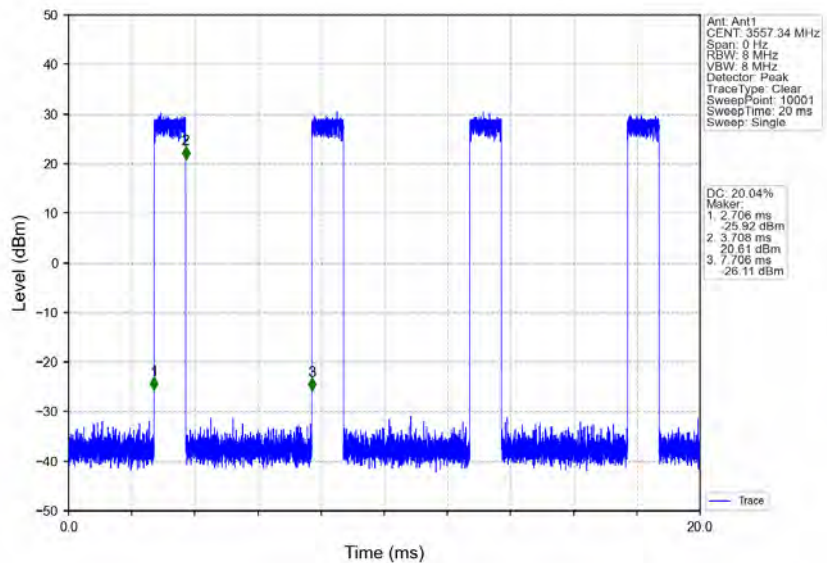
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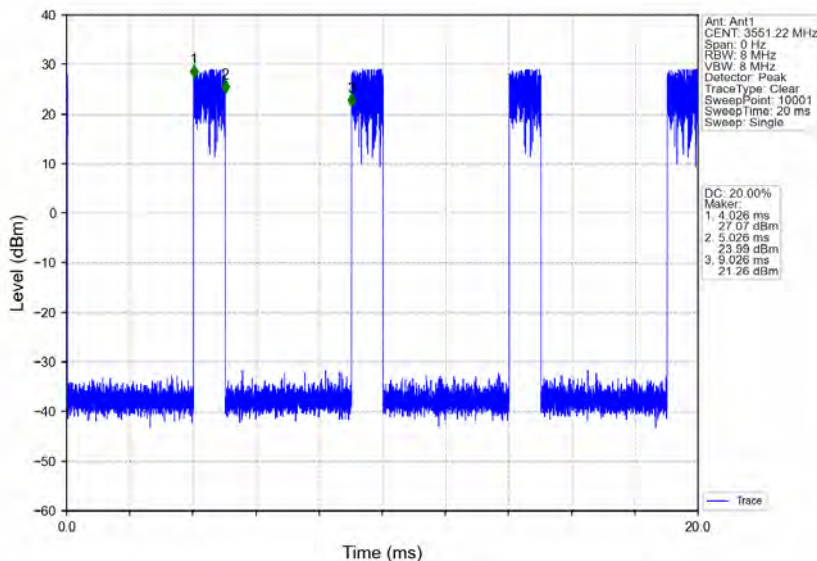
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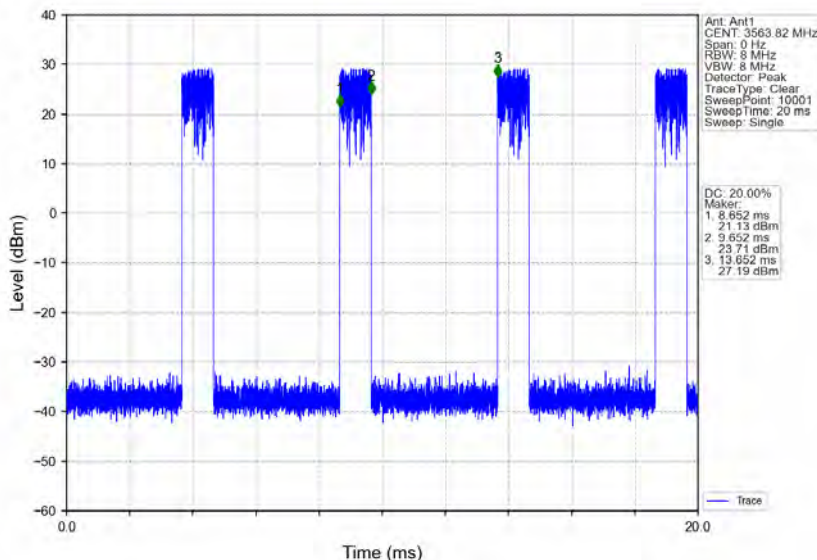
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n78d_30kHz_MIMO_NTNV_15MHz_CP-OFDM QPSK_3557.52MHz_Inner_1RB_Right



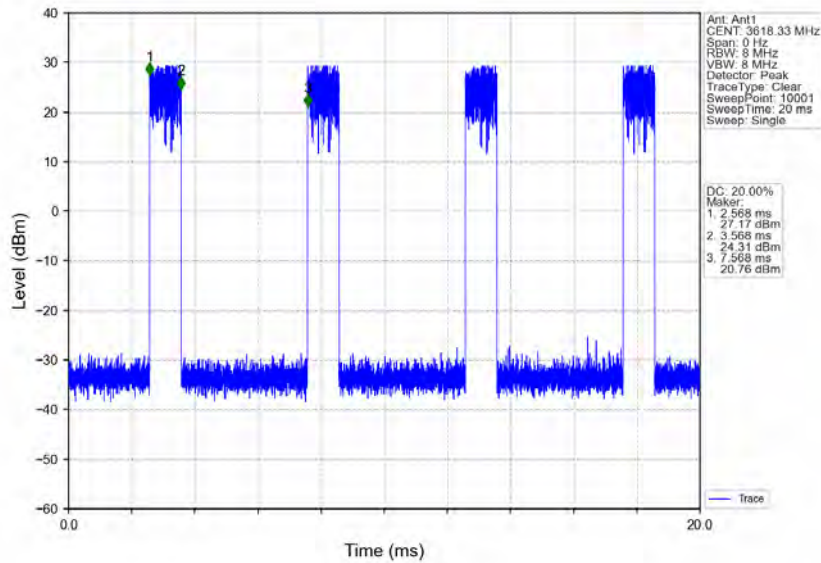
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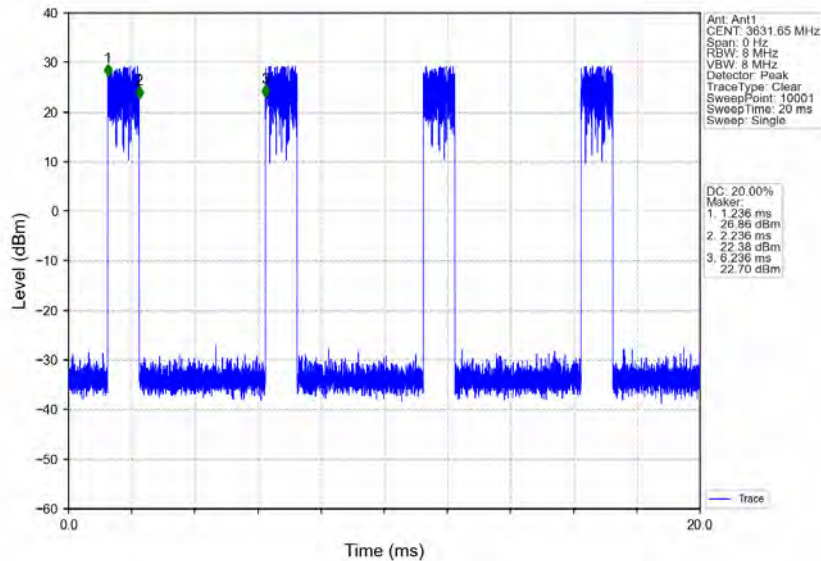
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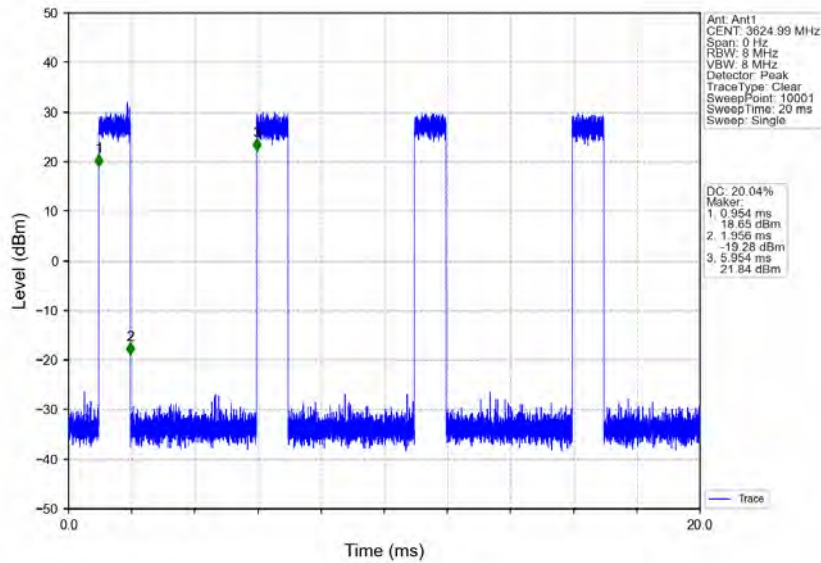
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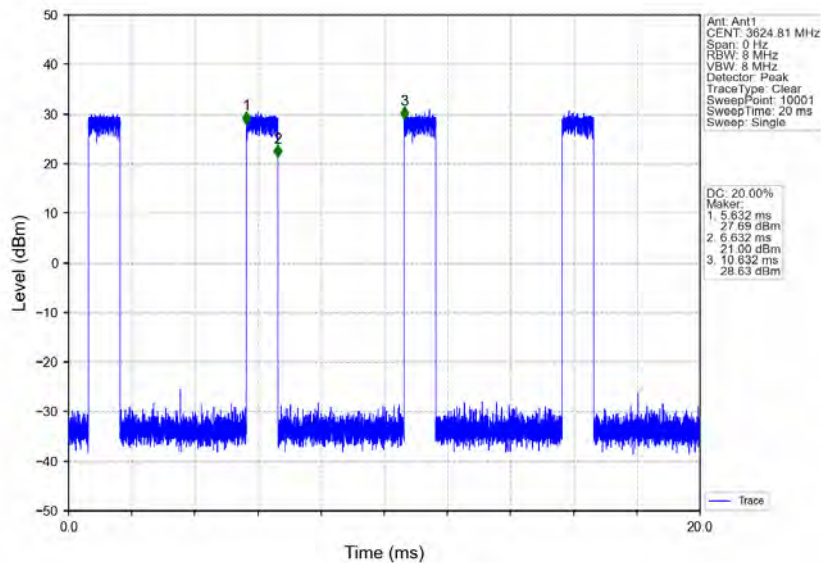
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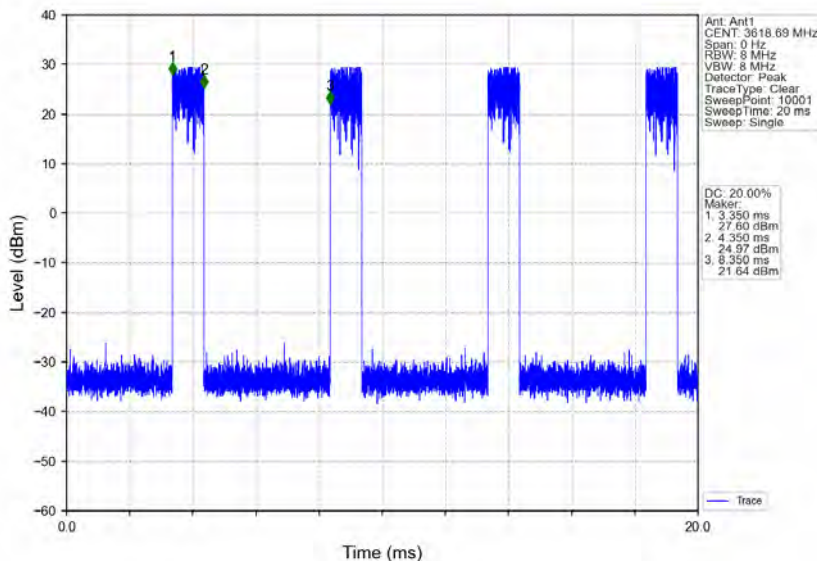
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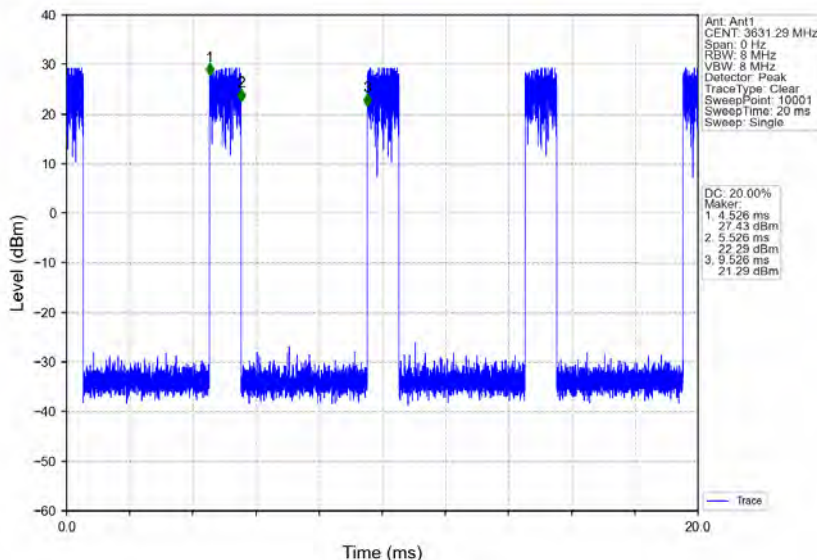
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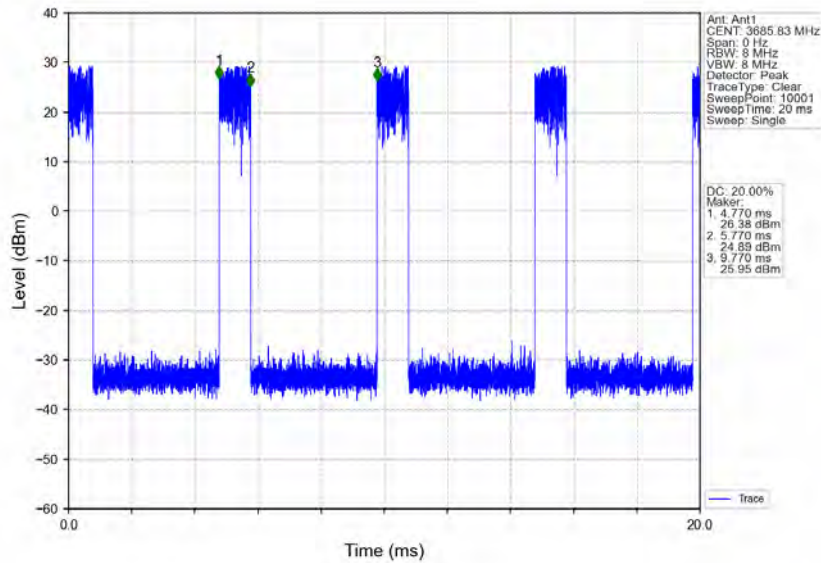
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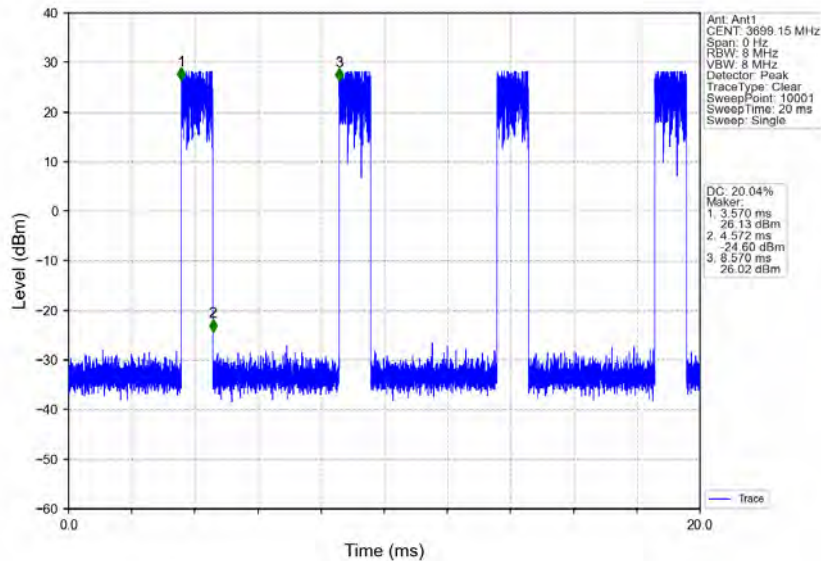
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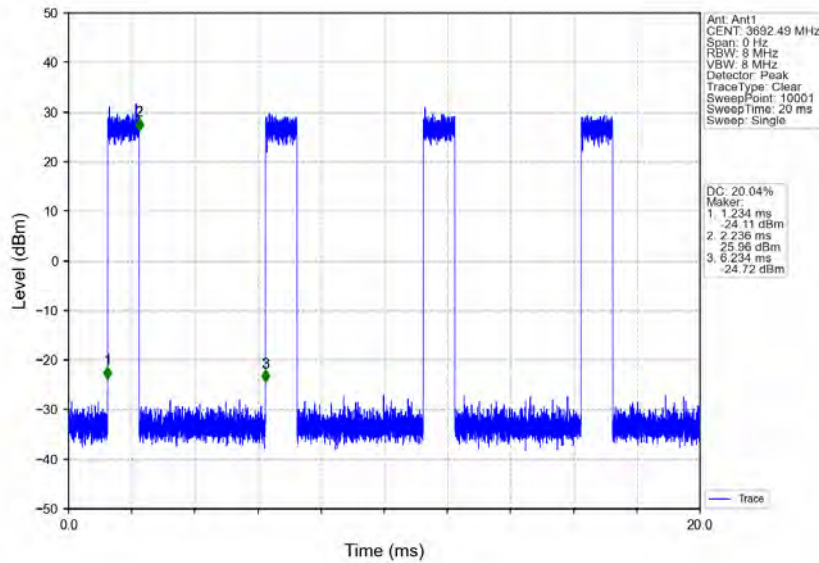
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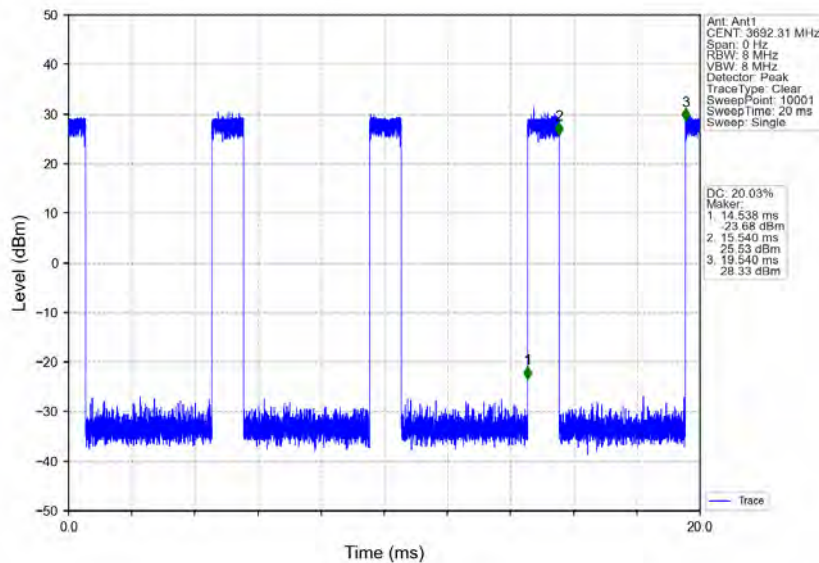
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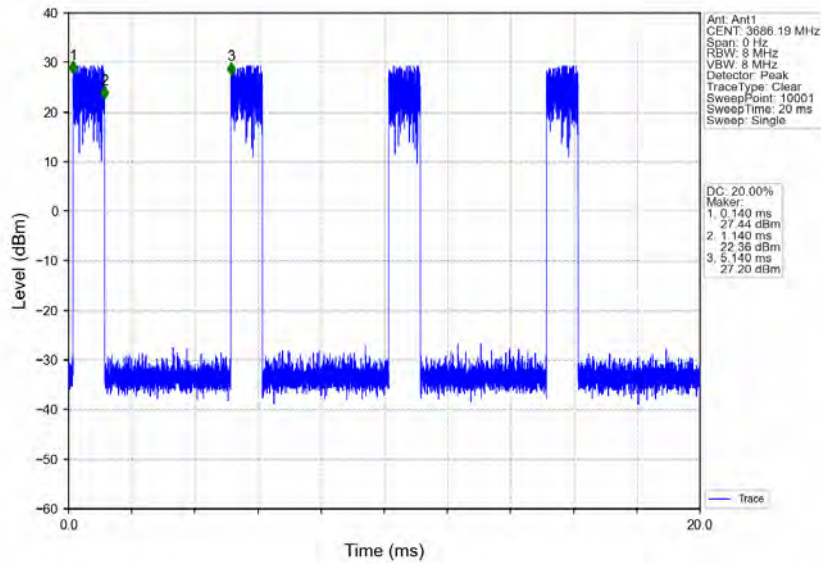
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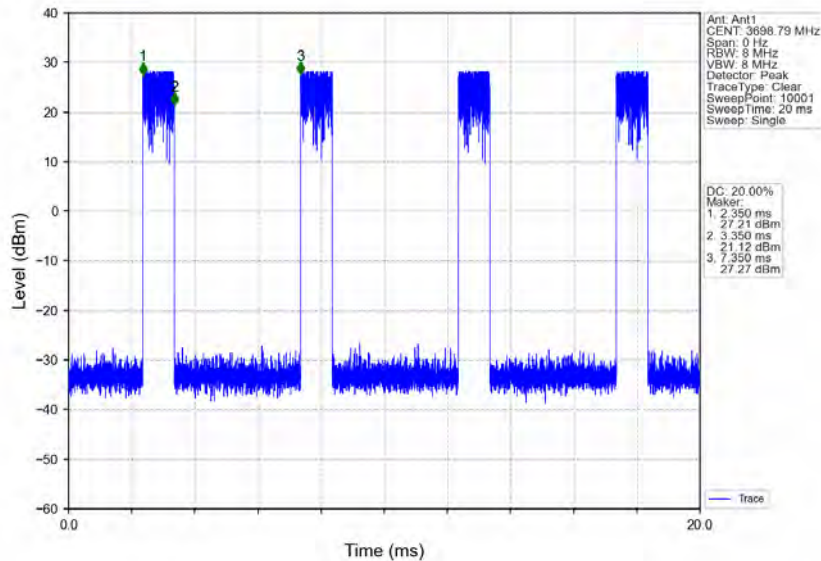
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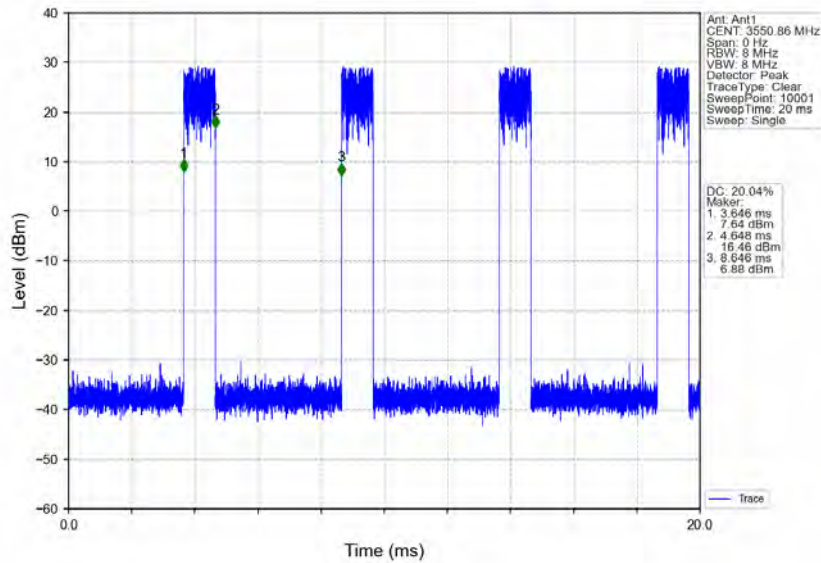
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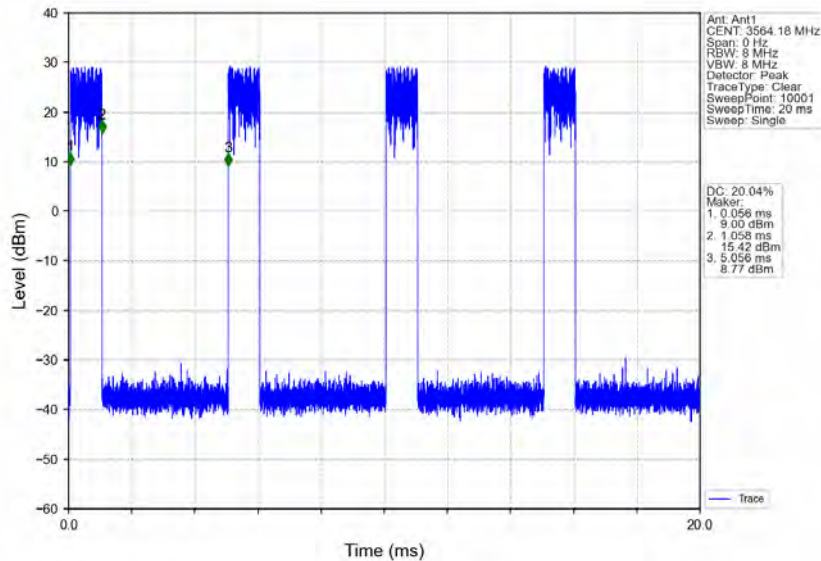
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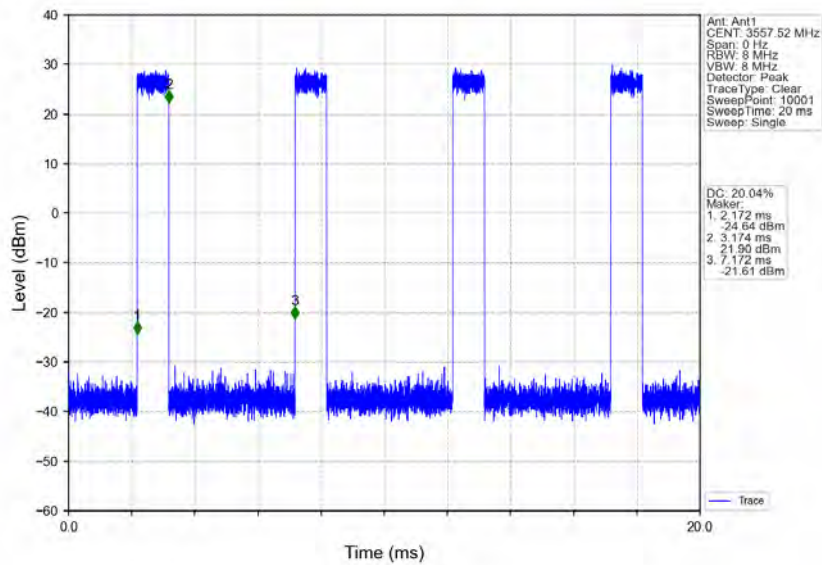
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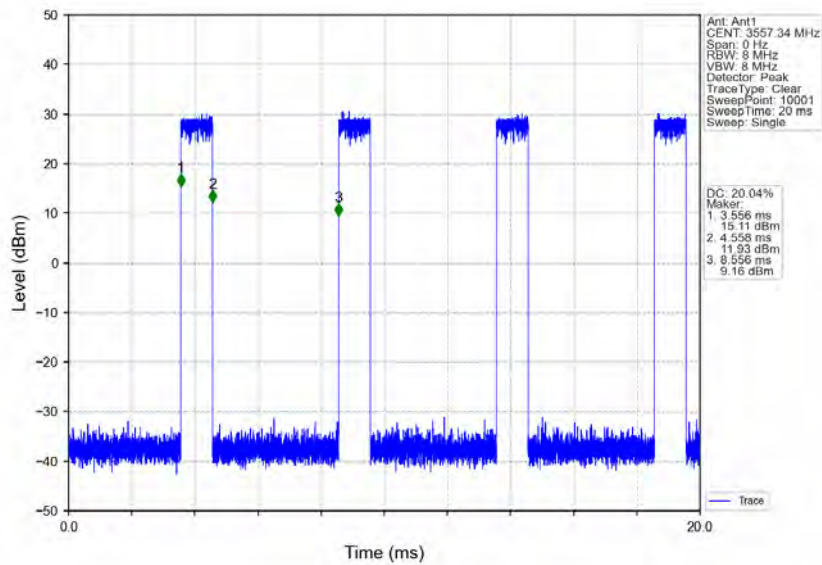
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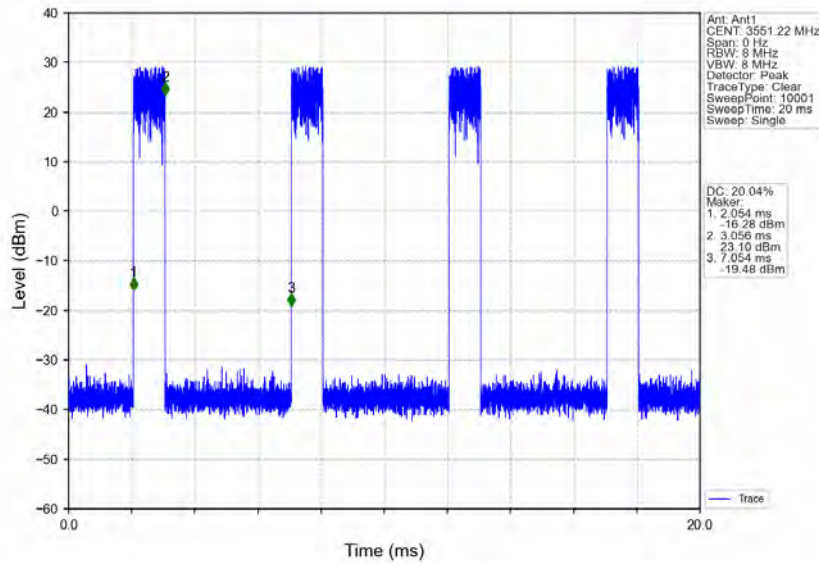
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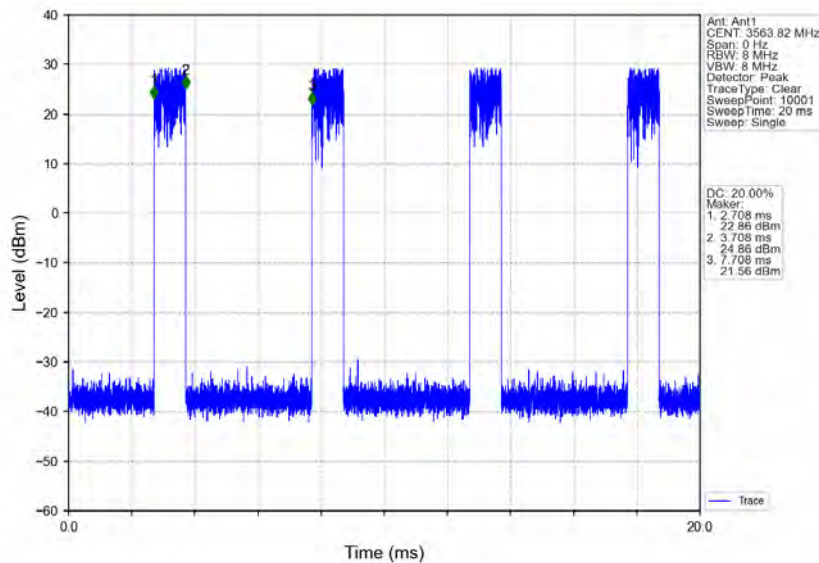
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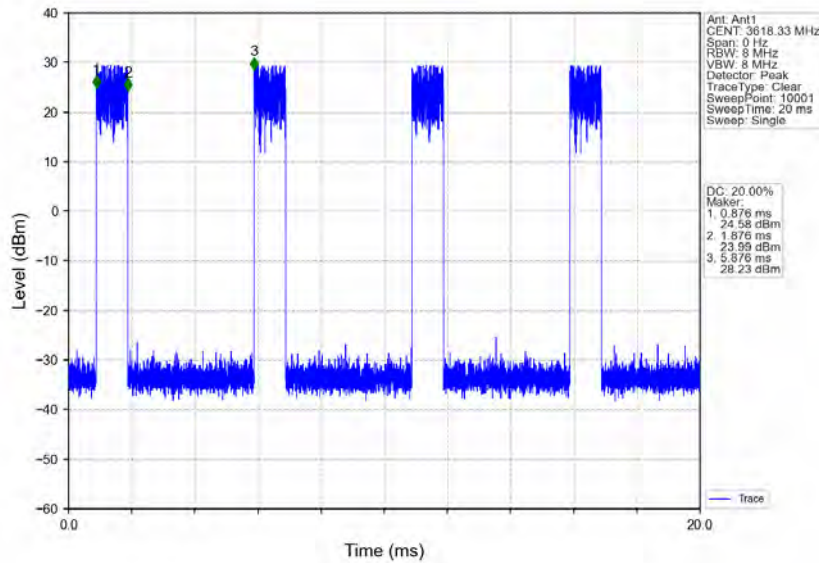
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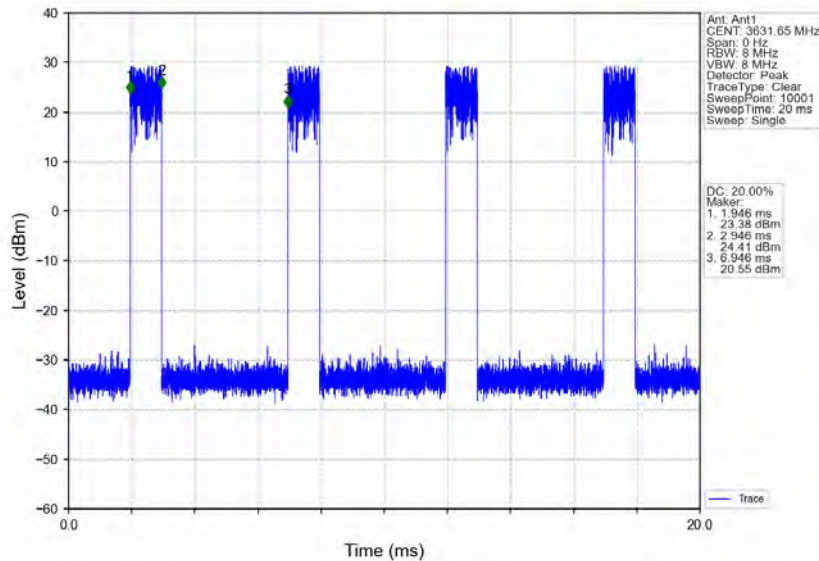
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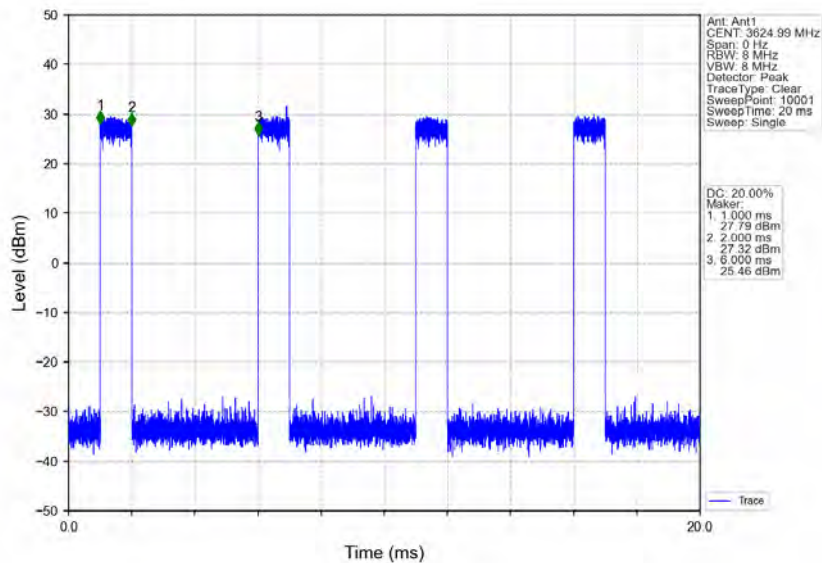
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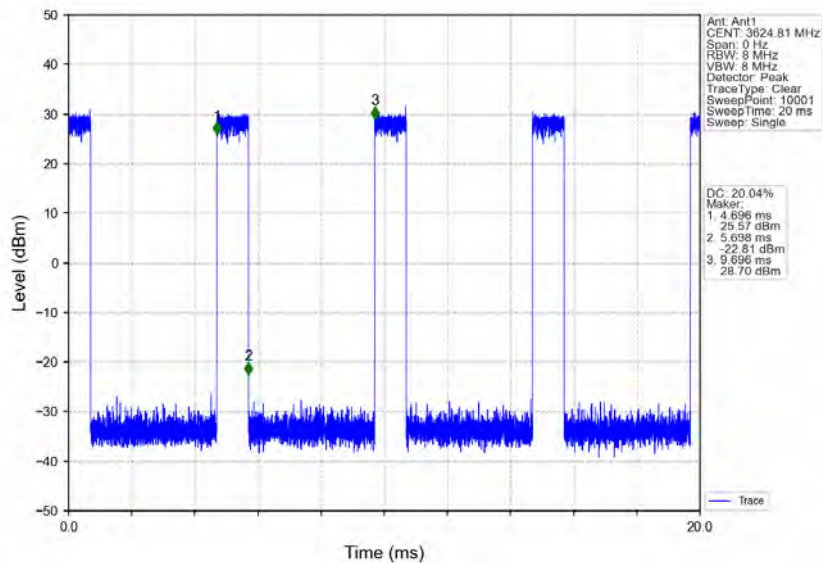
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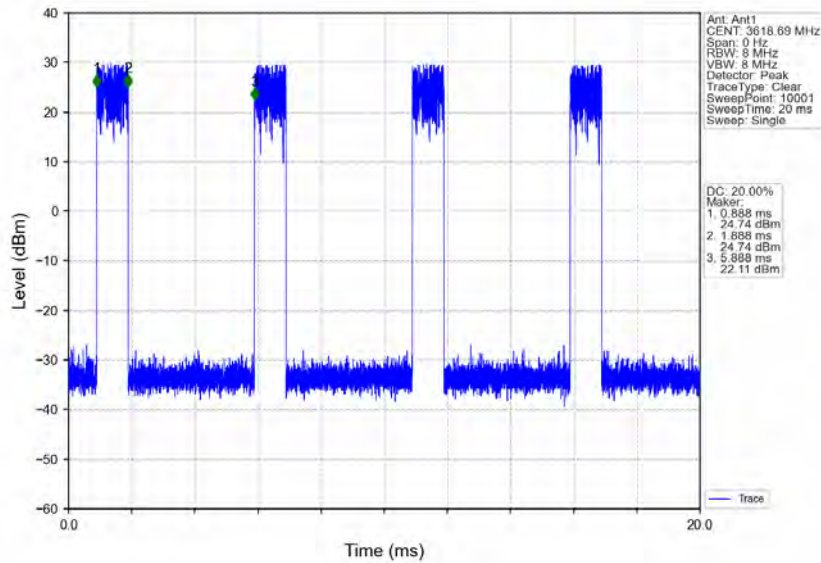
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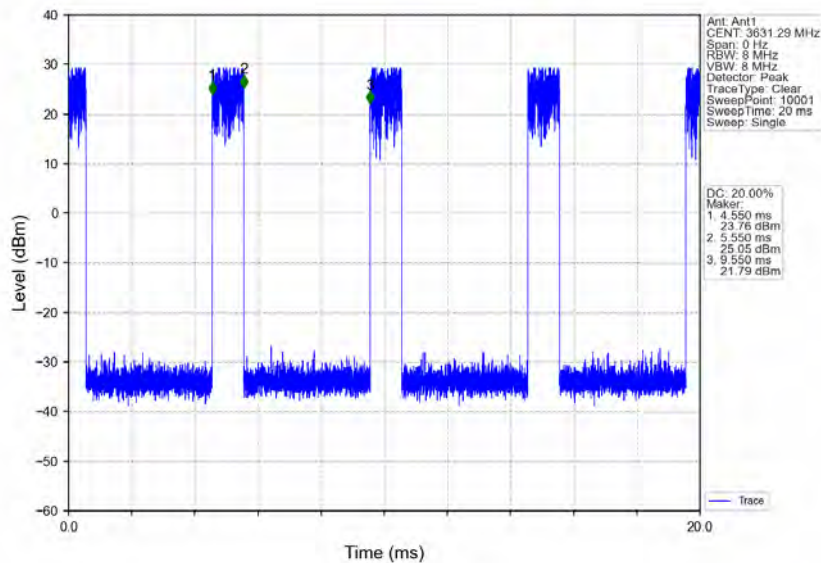
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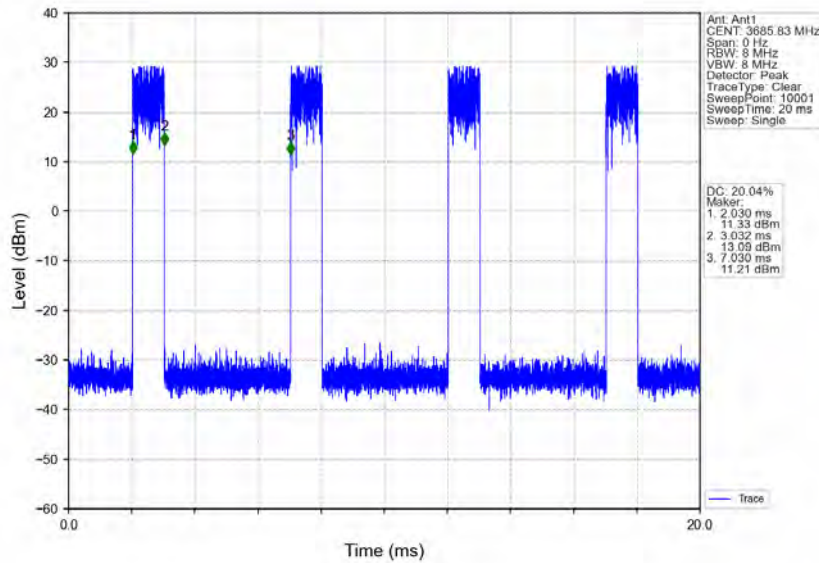
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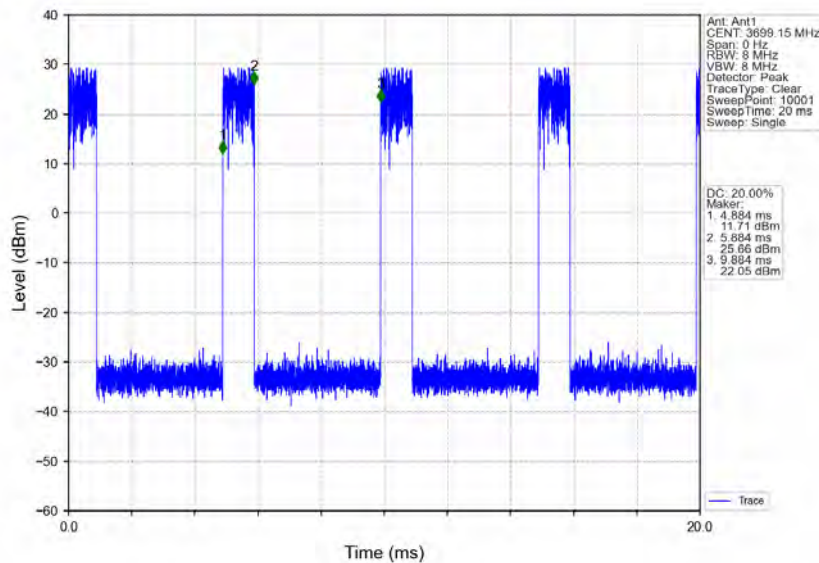
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n78d_30kHz_MIMO_NTNV_15MHz_CP-OFDM 16 QAM_3692.49MHz_Edge_1RB_Left



n78d_30kHz_MIMO_NTNV_15MHz_CP-OFDM 16 QAM_3692.49MHz_Edge_1RB_Right



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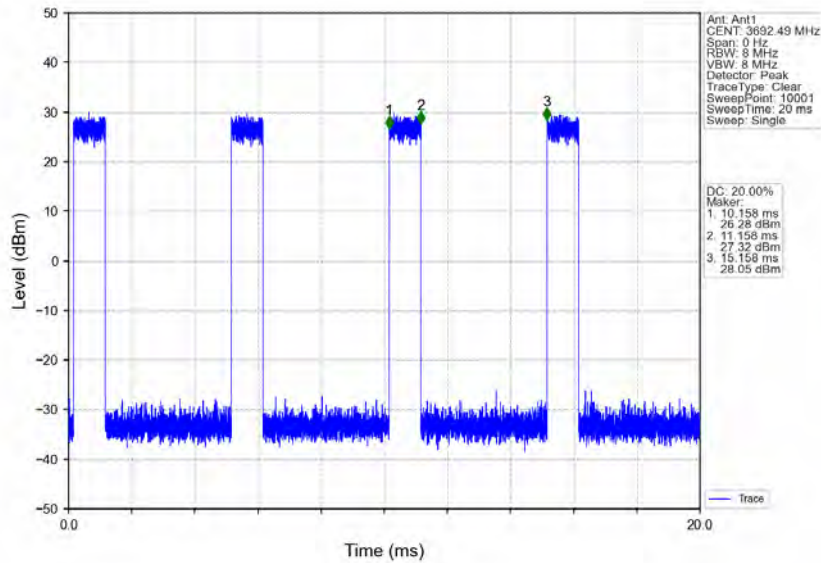
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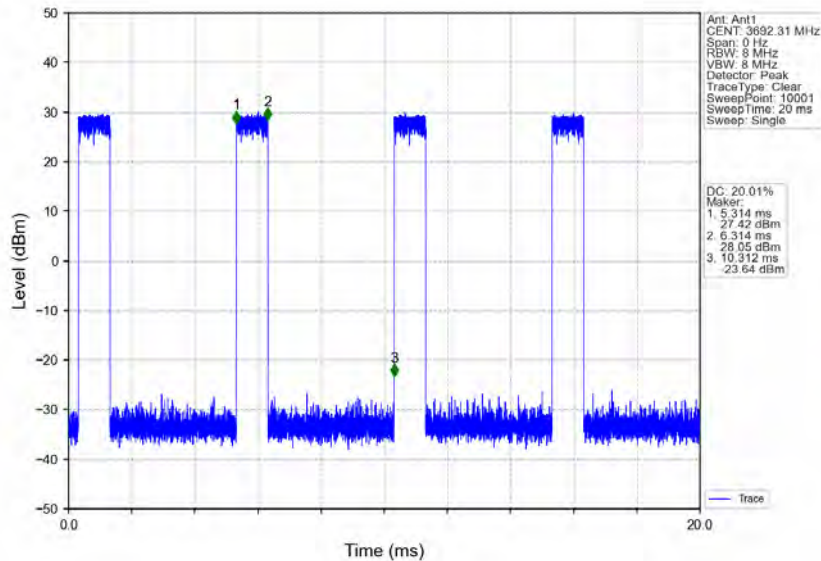
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n78d_30kHz_MIMO_NTNV_15MHz_CP-OFDM 16 QAM_3692.49MHz_Outer_Full



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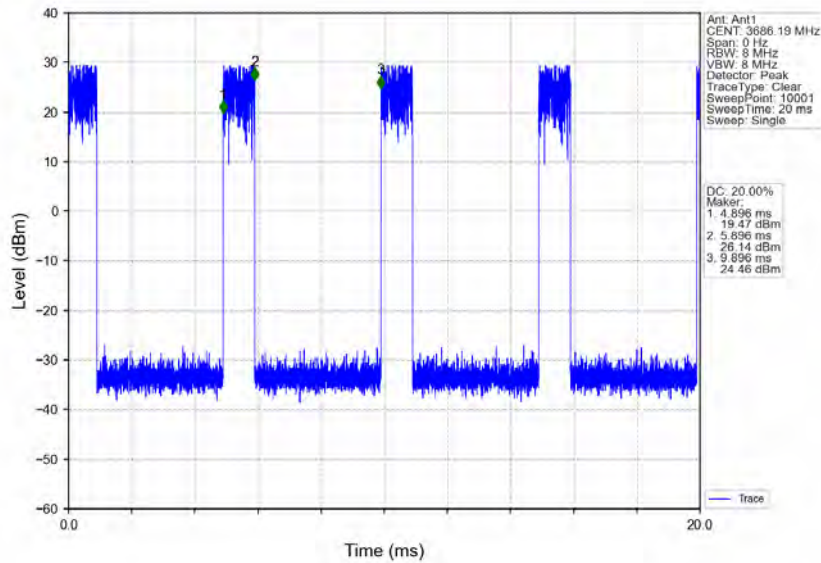
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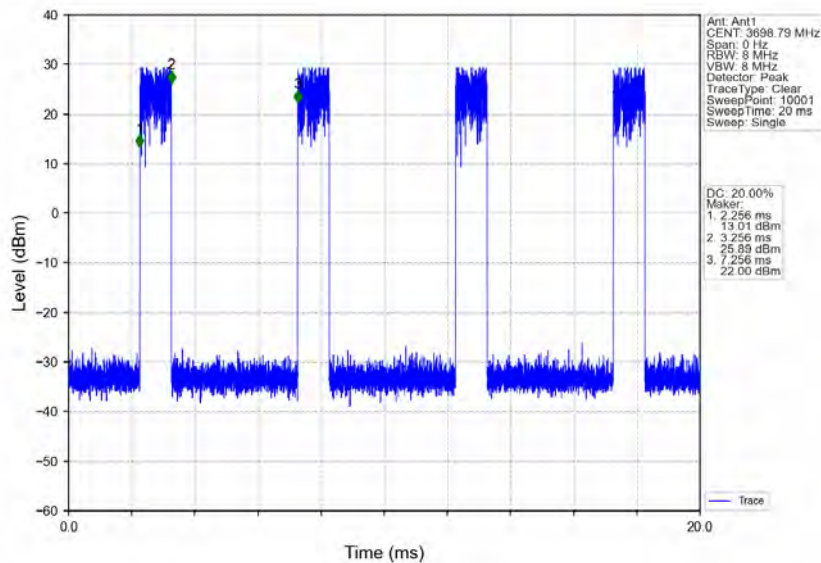
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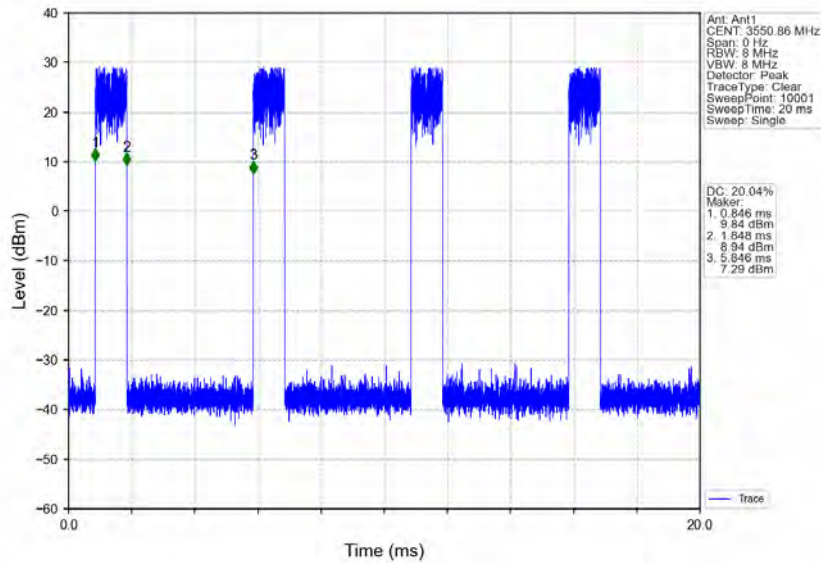
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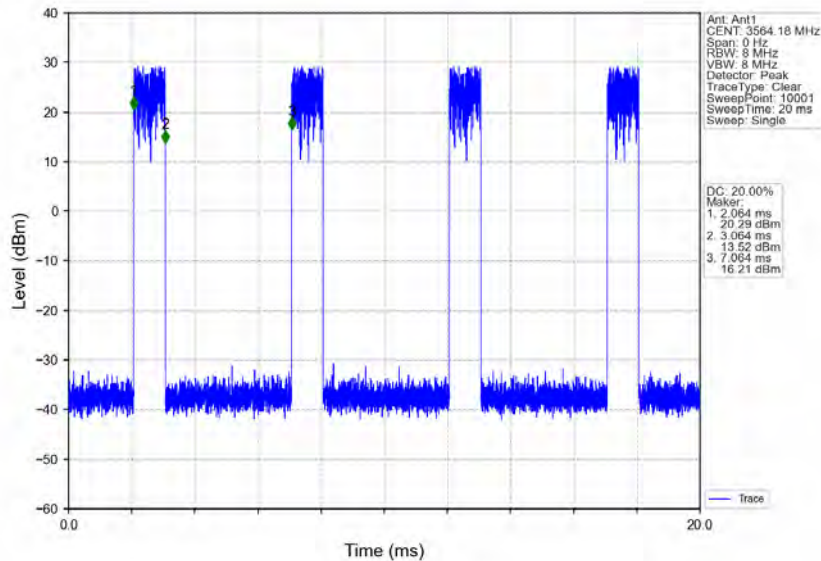
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n78d_30kHz_MIMO_NTNV_15MHz_CP-OFDM 64 QAM_3557.52MHz_Edge_1RB_Left



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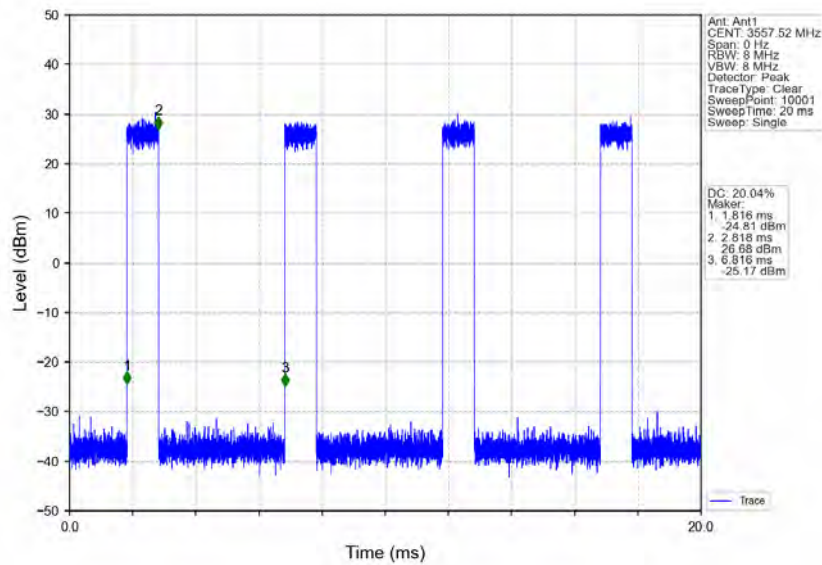
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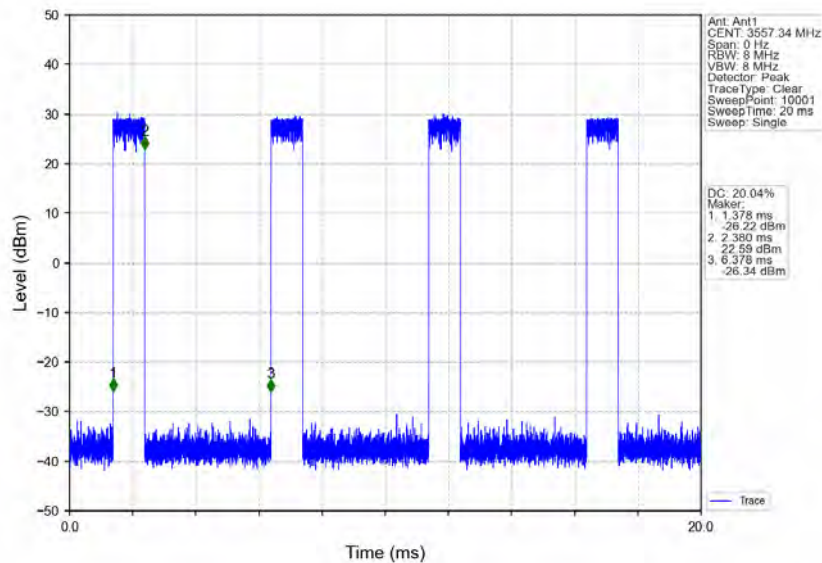
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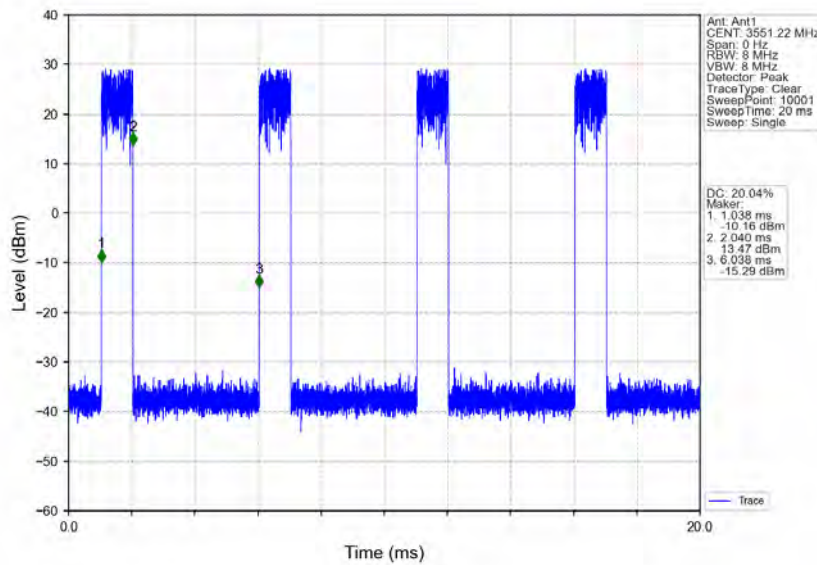
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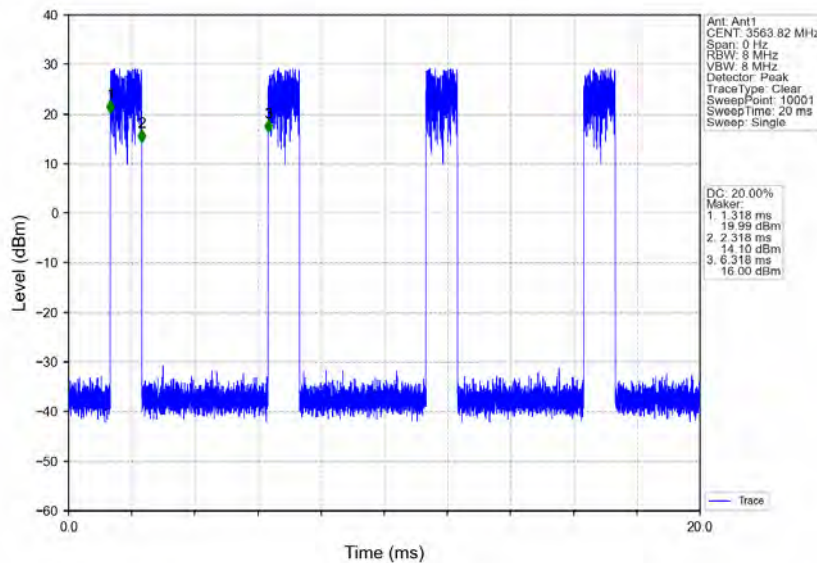
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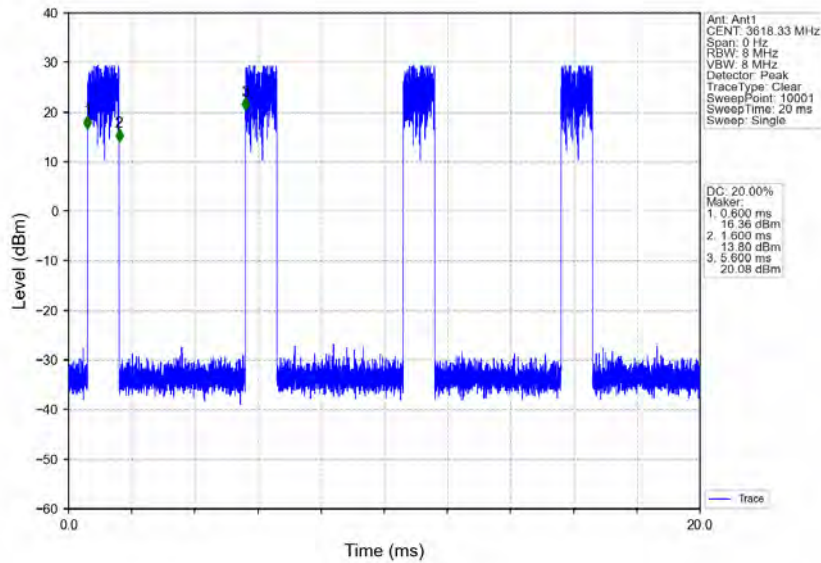
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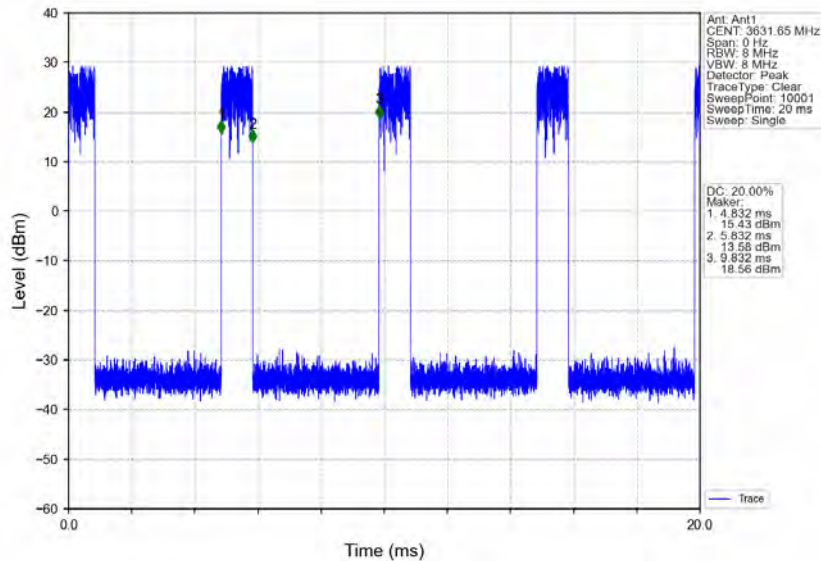
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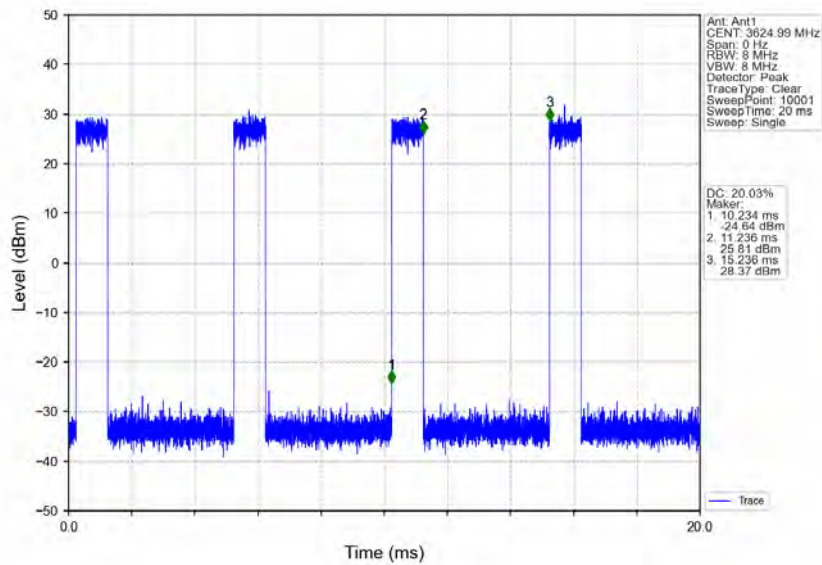
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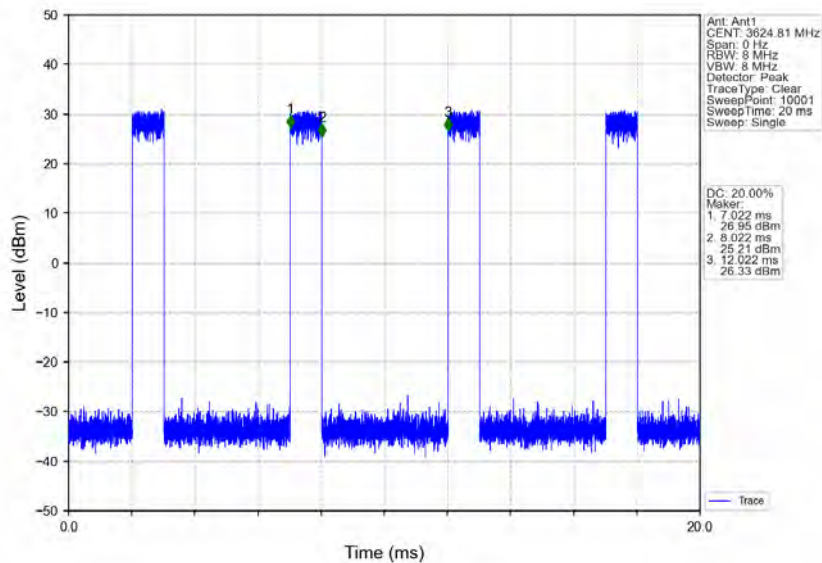
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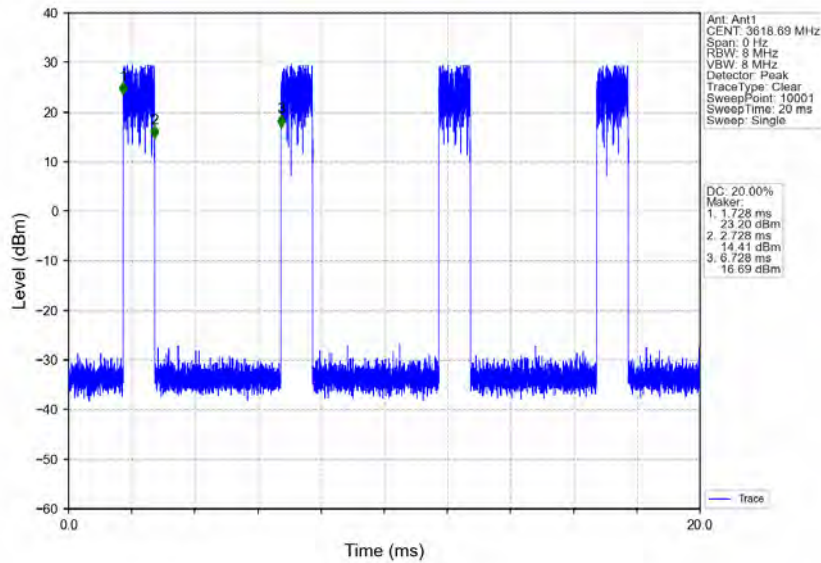
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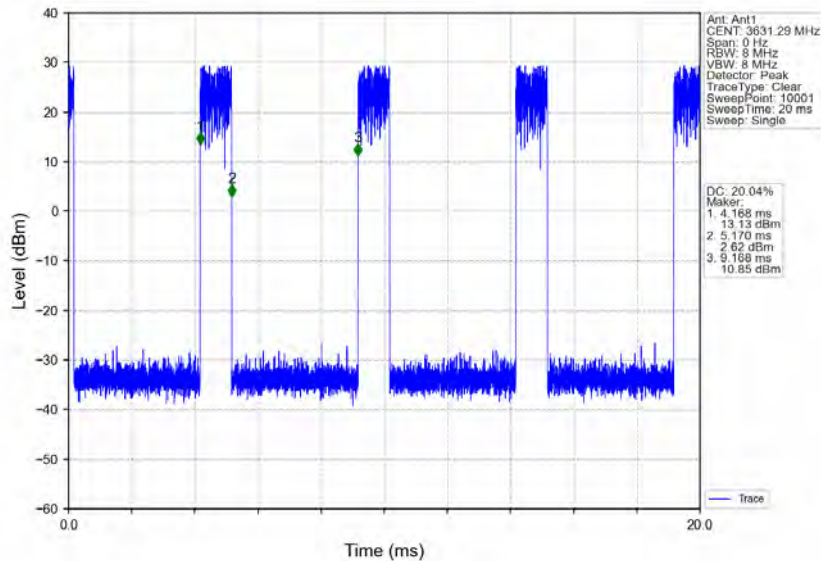
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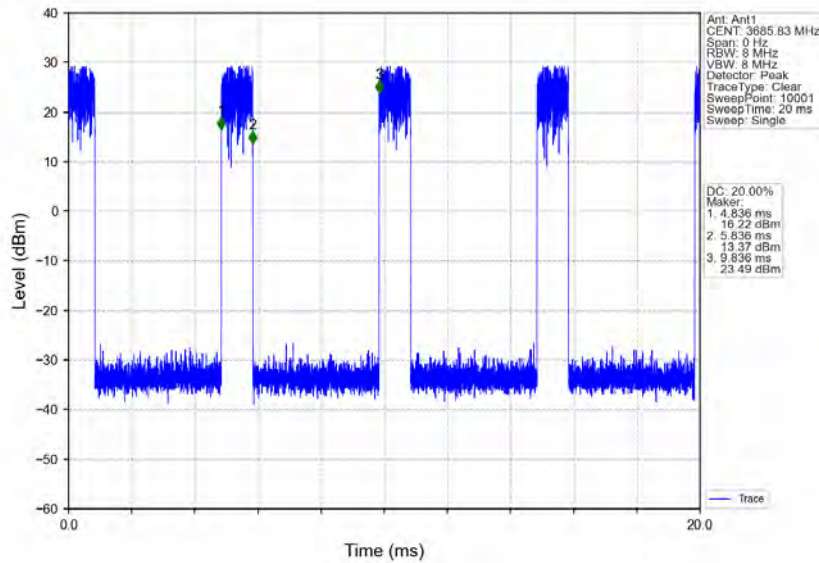
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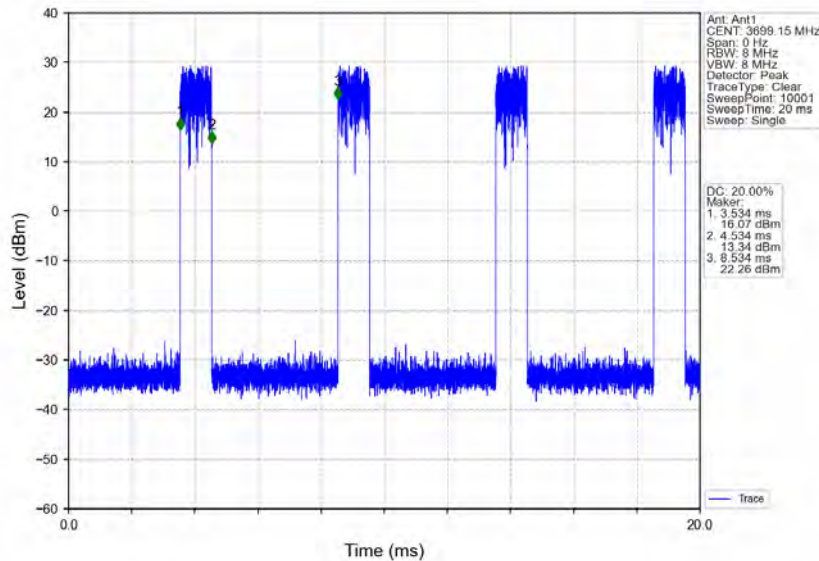
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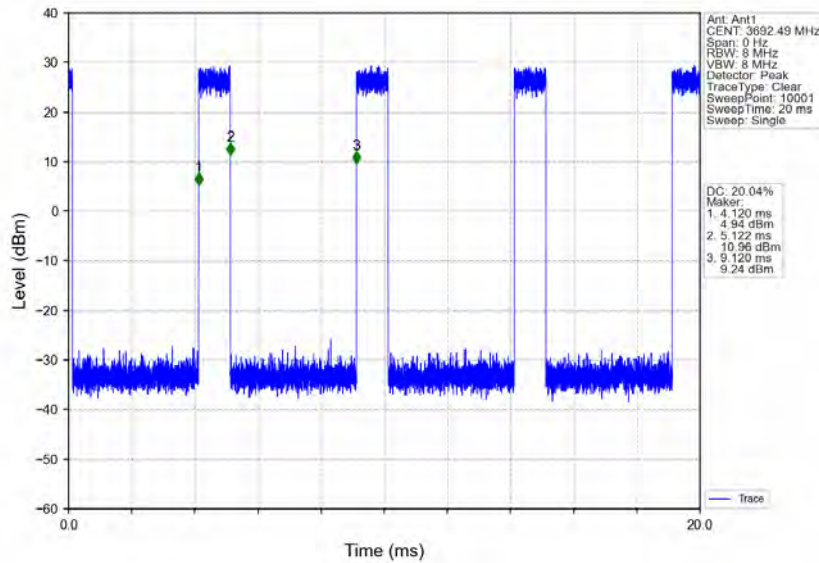
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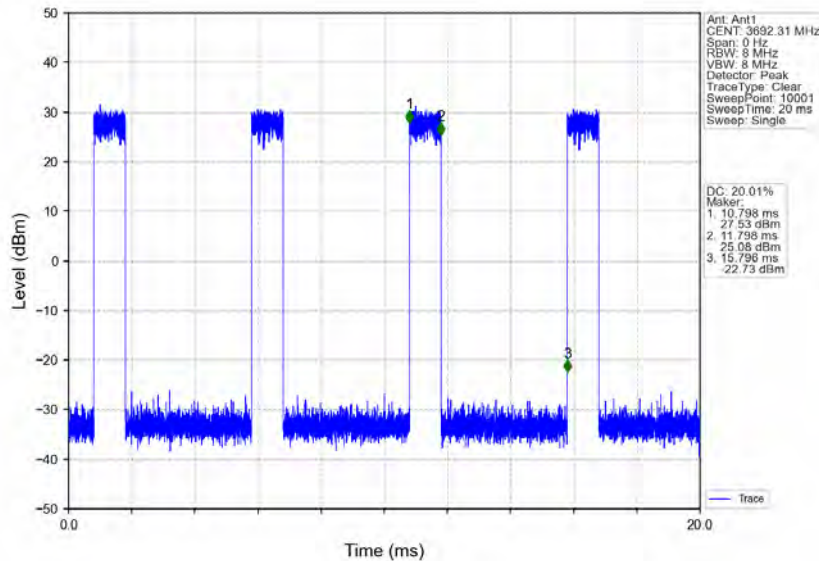
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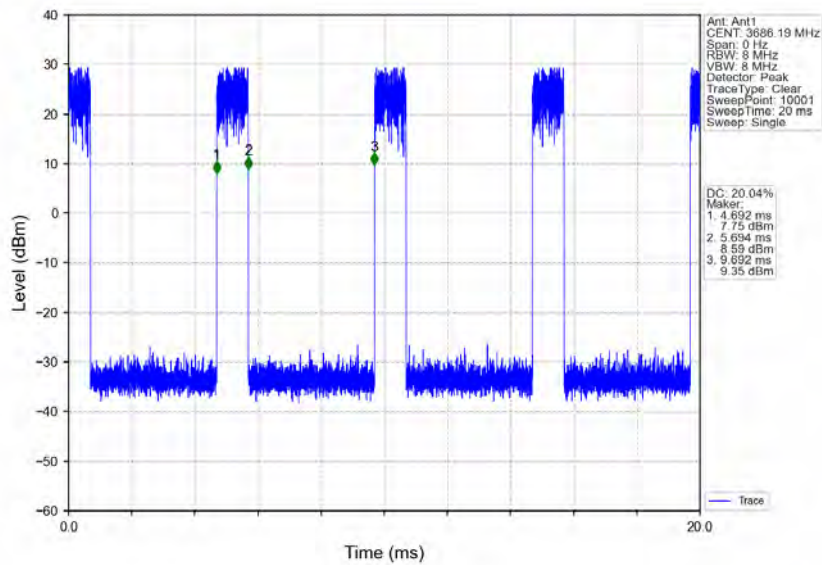
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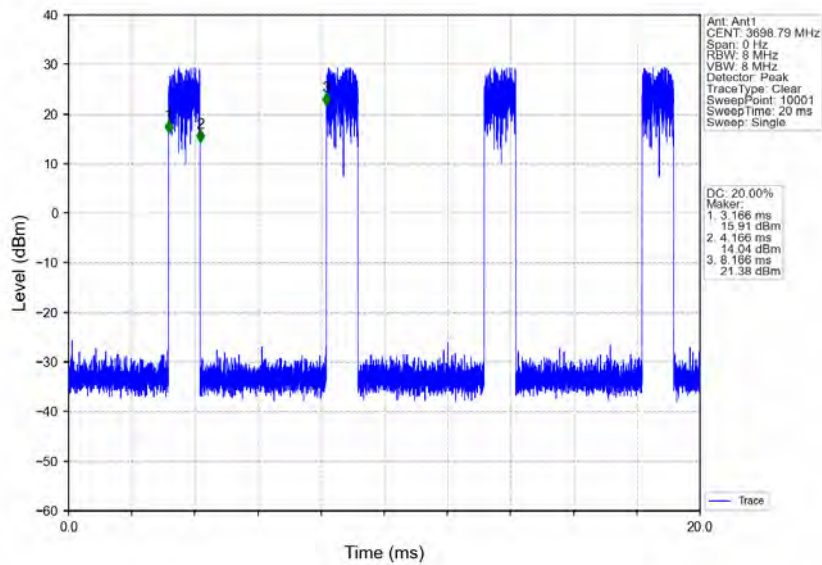
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n78d_30kHz_MIMO_NTNV_15MHz_CP-OFDM 64 QAM_3692.49MHz_Inner_1RB_Left



n78d_30kHz_MIMO_NTNV_15MHz_CP-OFDM 64 QAM_3692.49MHz_Inner_1RB_Right



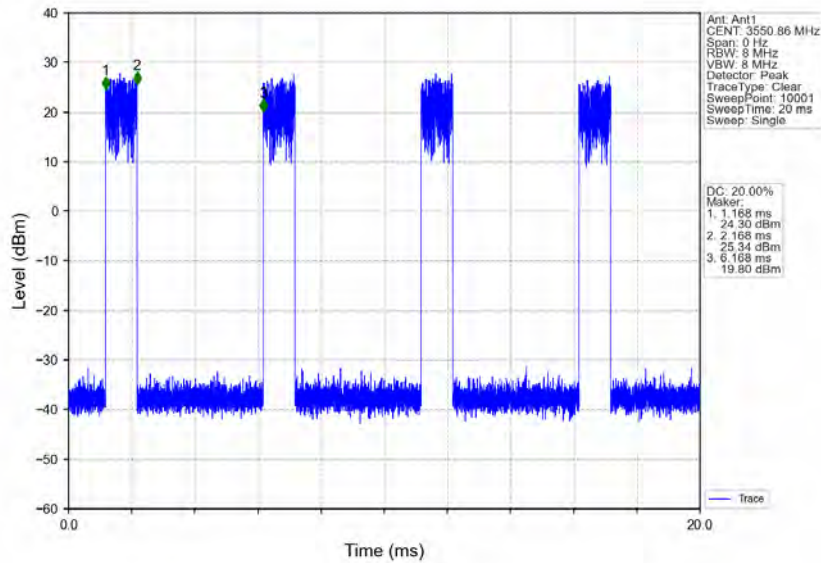
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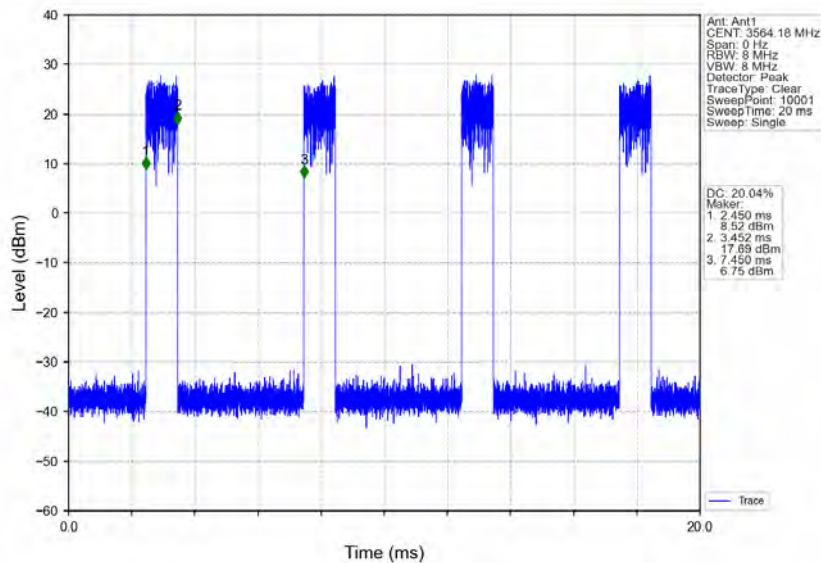
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n78d_30kHz_MIMO_NTNV_15MHz_CP-OFDM 256 QAM_3557.52MHz_Edge_1RB_Left



n78d_30kHz_MIMO_NTNV_15MHz_CP-OFDM 256 QAM_3557.52MHz_Edge_1RB_Right



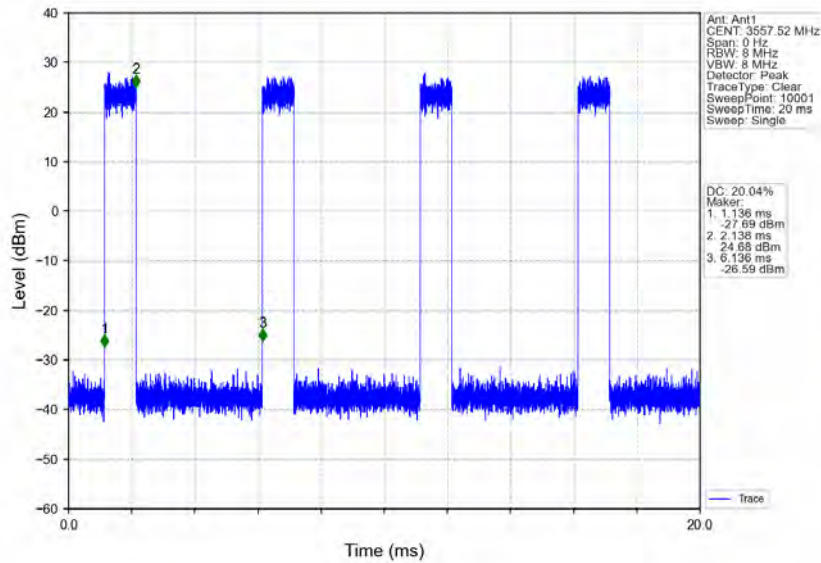
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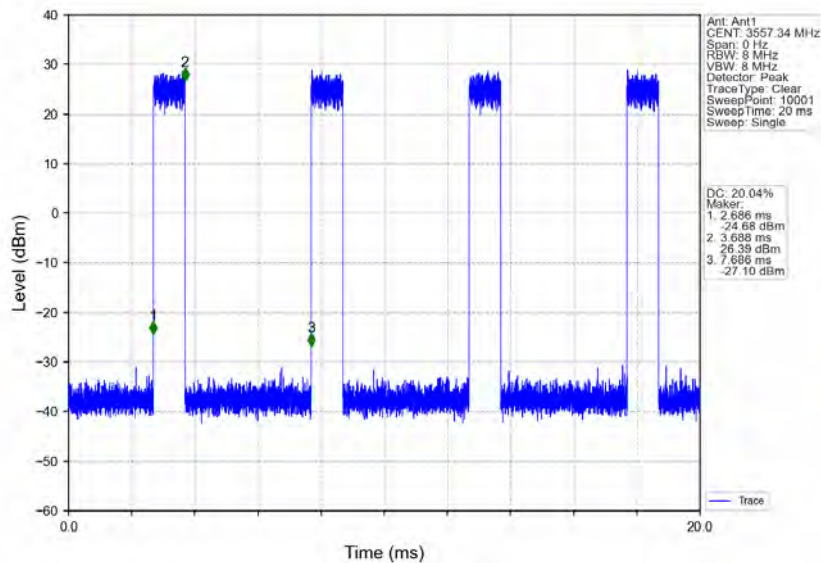
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n78d_30kHz_MIMO_NTNV_15MHz_CP-OFDM 256 QAM_3557.52MHz_Outer_Full



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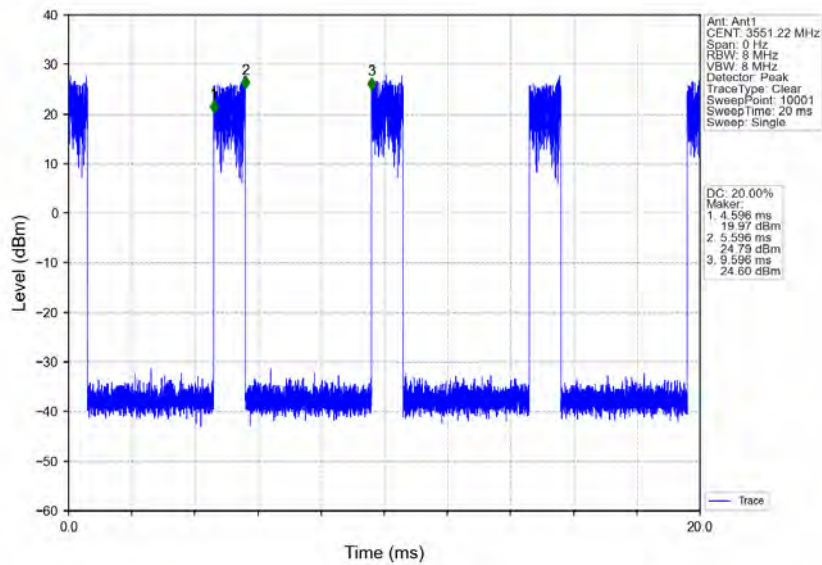
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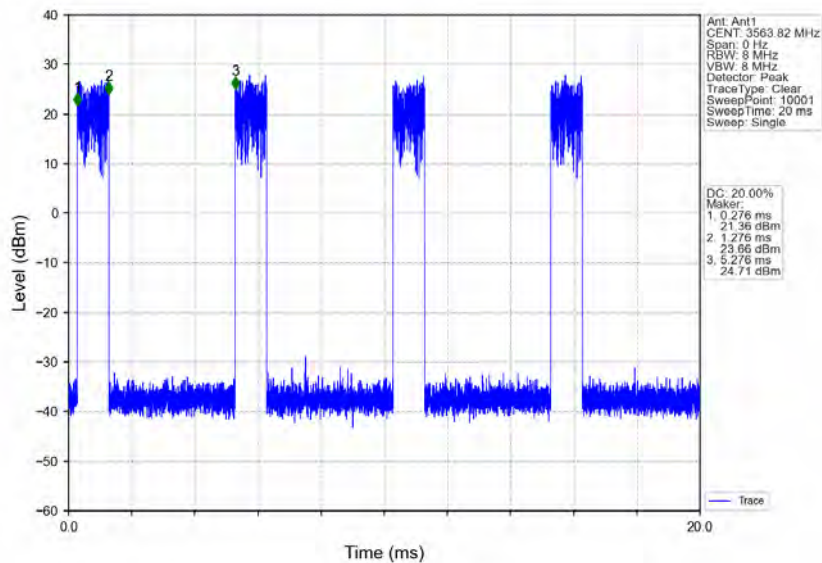
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n78d_30kHz_MIMO_NTNV_15MHz_CP-OFDM 256 QAM_3557.52MHz_Inner_1RB_Left



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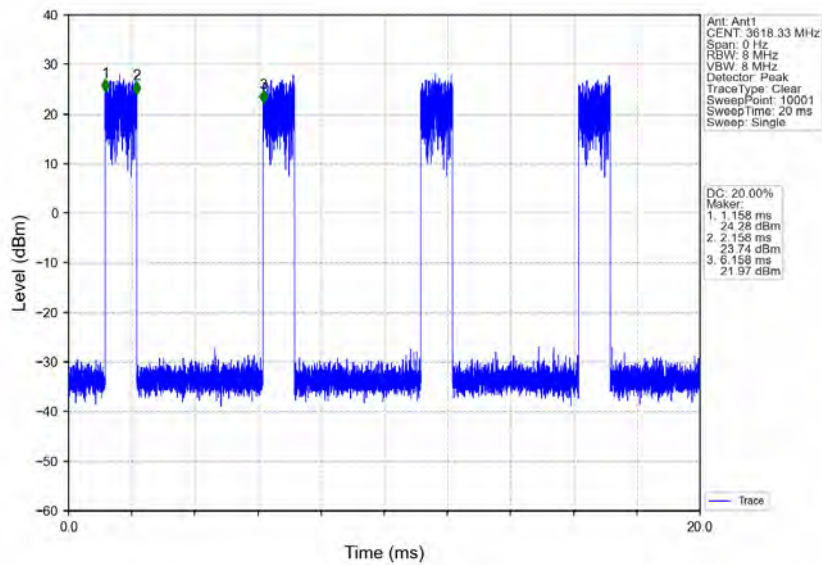
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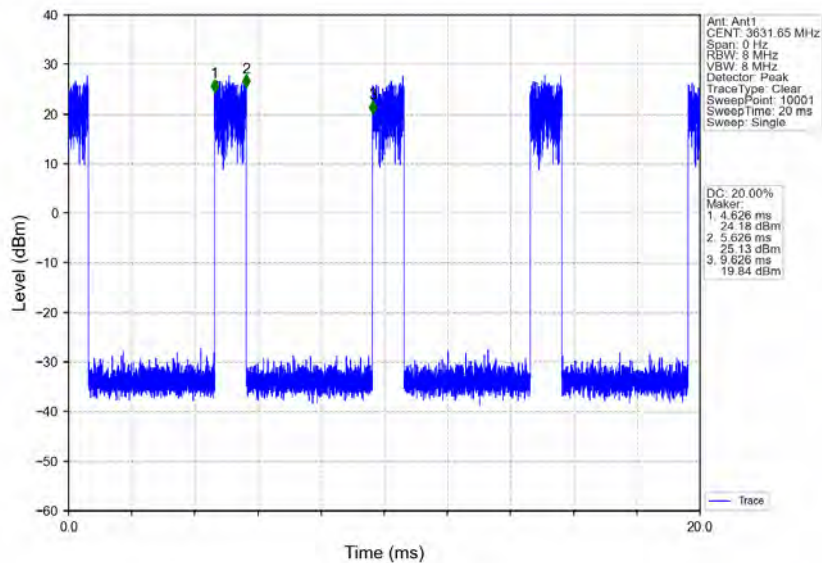
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n78d_30kHz_MIMO_NTNV_15MHz_CP-OFDM 256 QAM_3624.99MHz_Edge_1RB_Left



n78d_30kHz_MIMO_NTNV_15MHz_CP-OFDM 256 QAM_3624.99MHz_Edge_1RB_Right



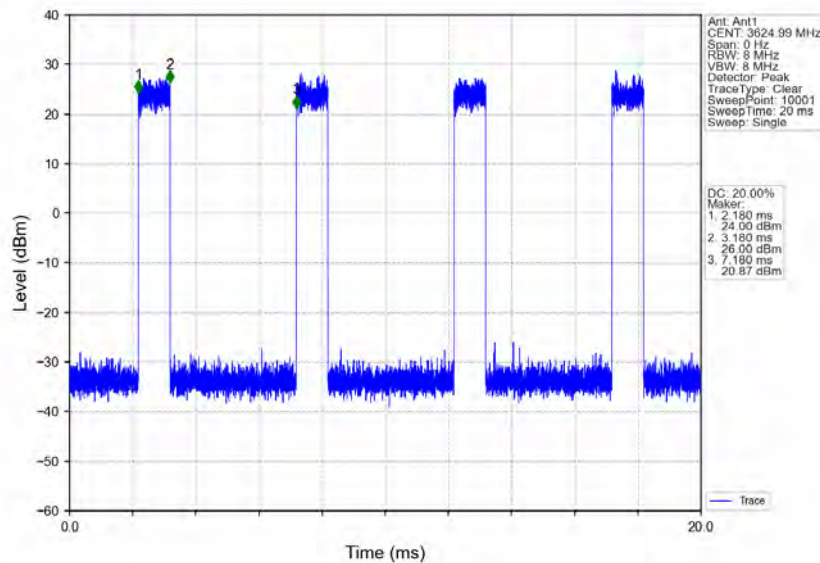
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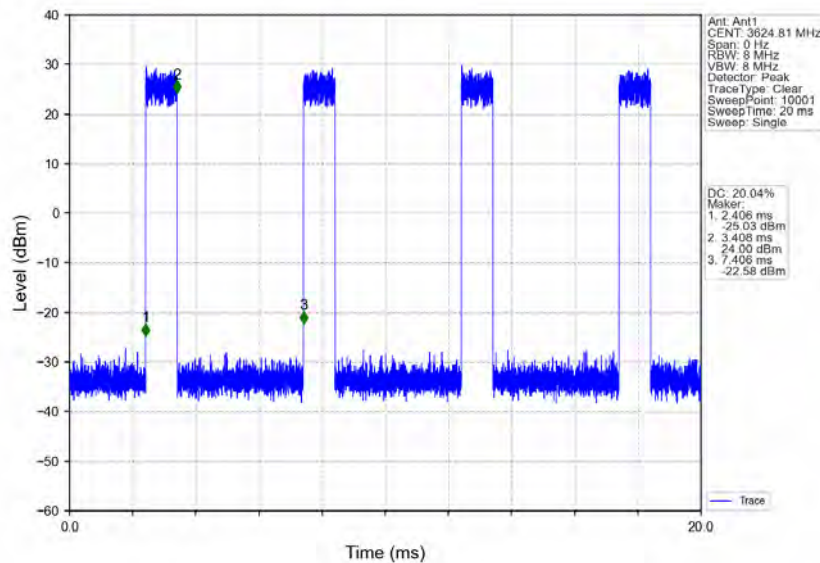
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n78d_30kHz_MIMO_NTNV_15MHz_CP-OFDM_256_QAM_3624.99MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_15MHz_CP-OFDM_256_QAM_3624.99MHz_Inner_Full



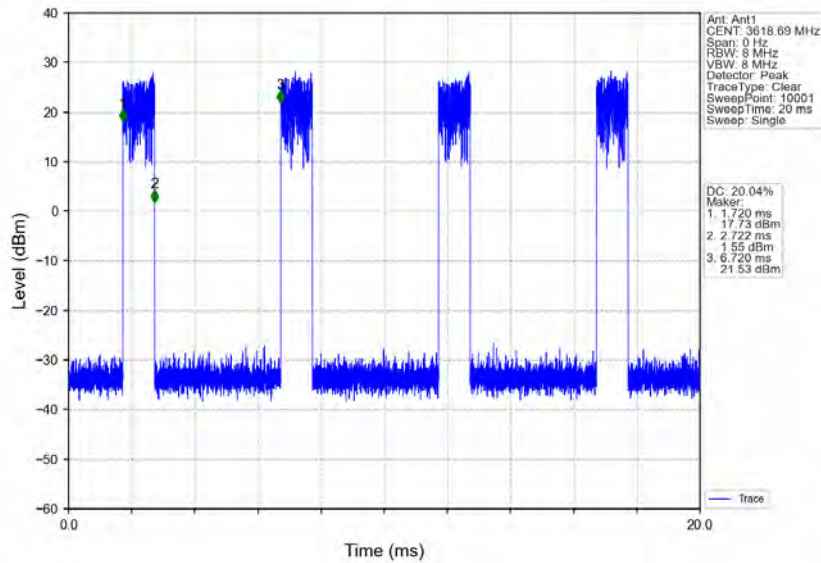
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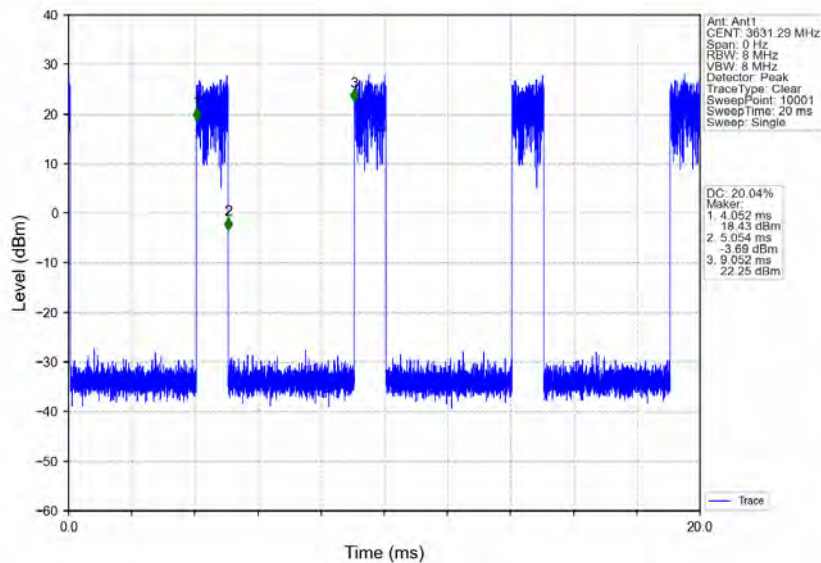
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n78d_30kHz_MIMO_NTNV_15MHz_CP-OFDM 256 QAM_3624.99MHz_Inner_1RB_Left



n78d_30kHz_MIMO_NTNV_15MHz_CP-OFDM 256 QAM_3624.99MHz_Inner_1RB_Right



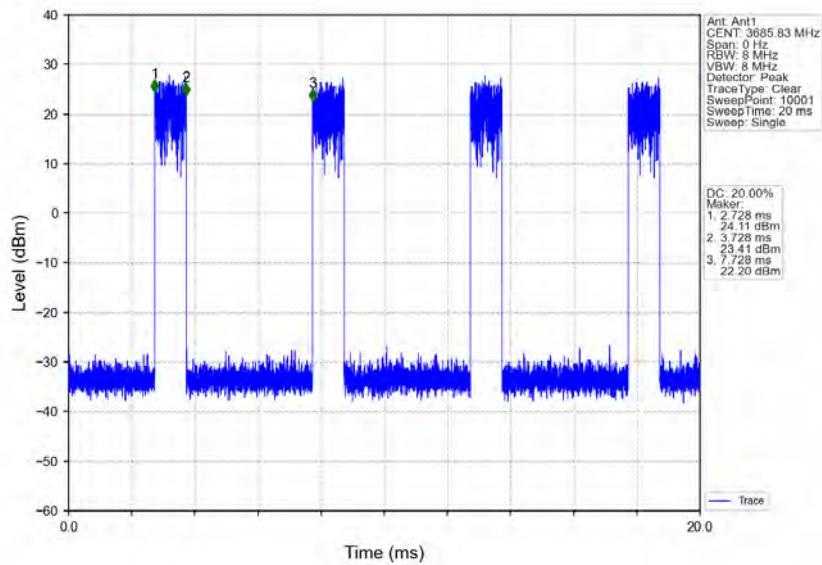
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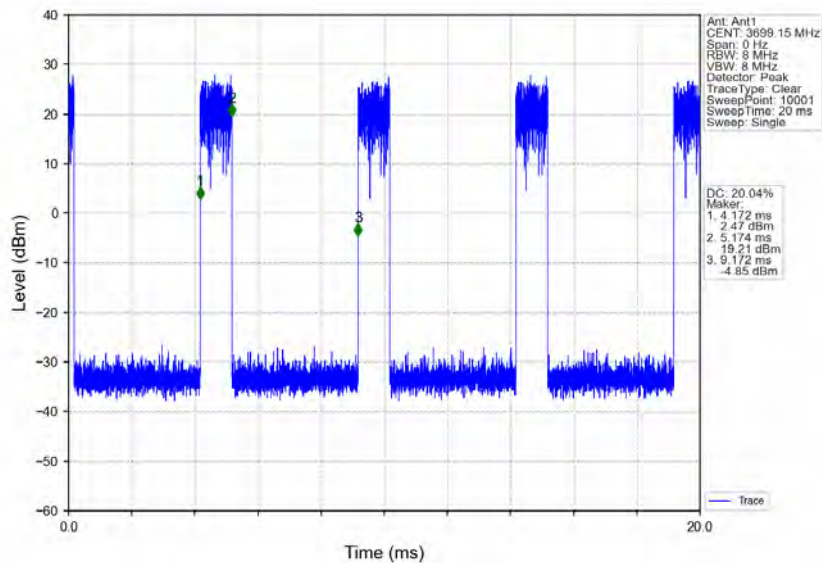
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n78d_30kHz_MIMO_NTNV_15MHz_CP-OFDM 256 QAM_3692.49MHz_Edge_1RB_Left



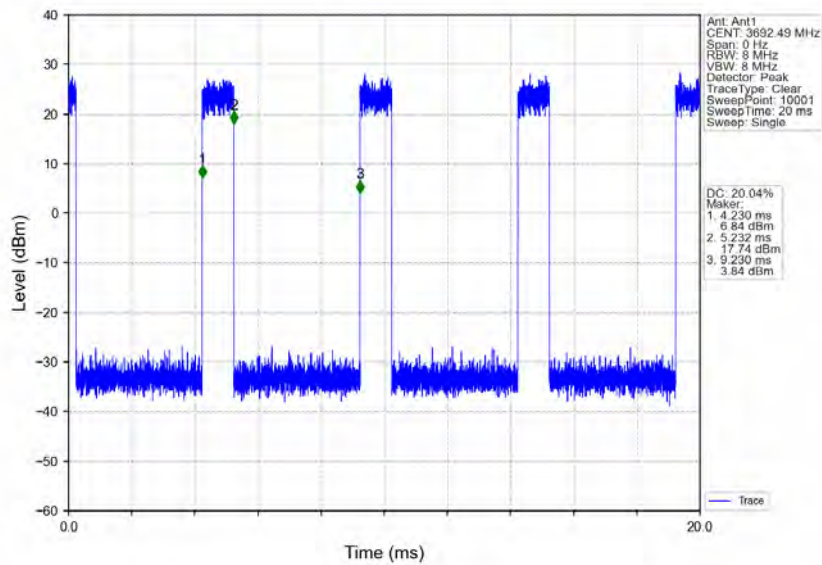
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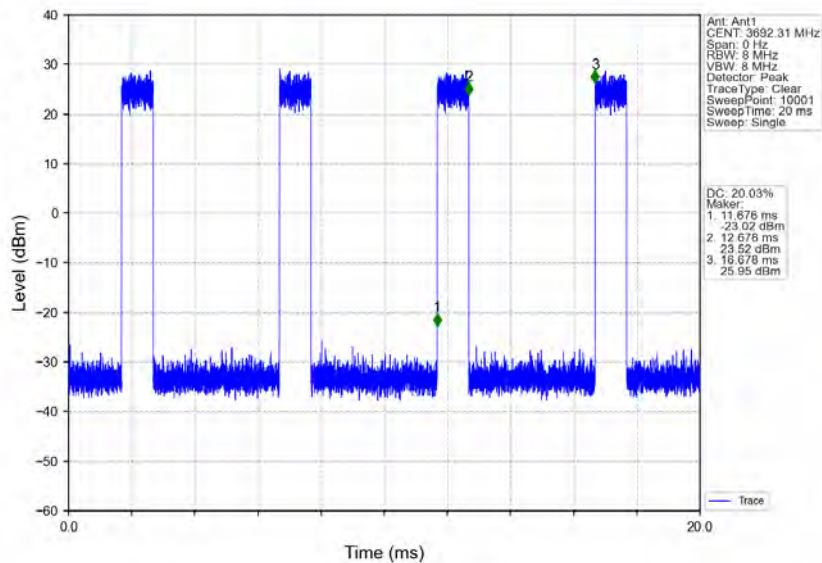
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n78d_30kHz_MIMO_NTNV_15MHz_CP-OFDM_256_QAM_3692.49MHz_Outer_Full



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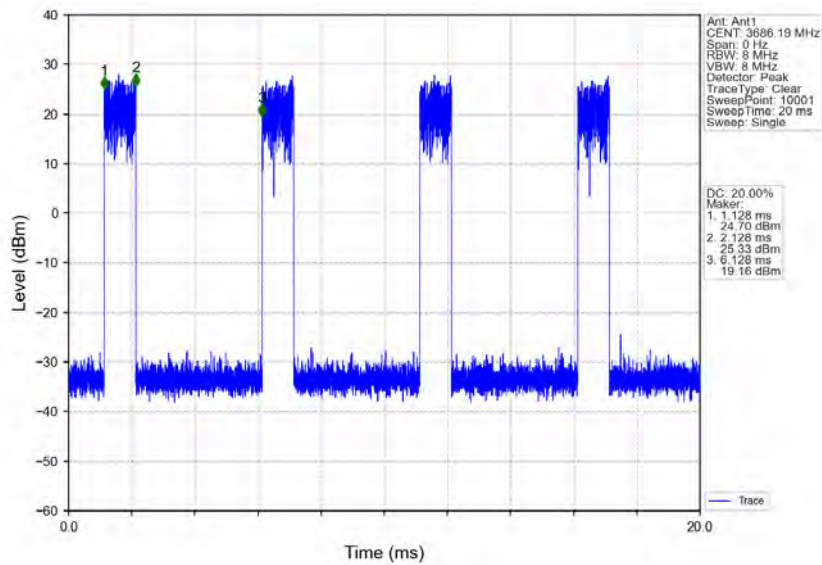
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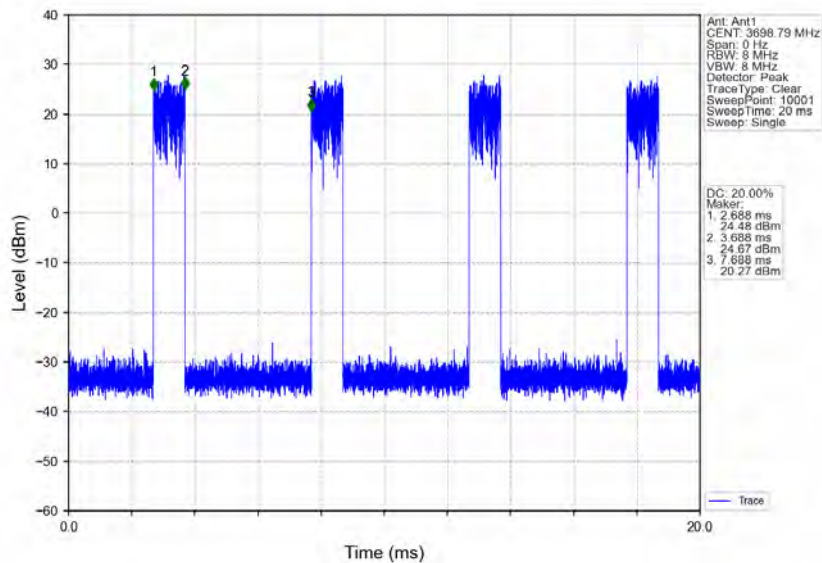
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n78d_30kHz_MIMO_NTNV_15MHz_CP-OFDM 256 QAM_3692.49MHz_Inner_1RB_Left



n78d_30kHz_MIMO_NTNV_15MHz_CP-OFDM 256 QAM_3692.49MHz_Inner_1RB_Right



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1.3 30k_MIMO_20MHz_NTNV

1.3.1 Test Result

5G NR n78d SCS=30kHz MIMO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
CP-OFDM QPSK	3560.01	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	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
	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	5.002	20.03	6.98	0.01
		Inner_Full	1.002	5.000	20.04	6.98	0.00
		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
	3690	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	0.00
		Inner_Full	1.000	4.998	20.01	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
CP-OFDM 16 QAM	3560.01	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	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	1.002	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	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
	3690	Edge_1RB_Left	1.000	5.000	20.00	6.99	0.00
		Edge_1RB_Right	1.000	5.000	20.00	6.99	0.04
		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
CP-OFDM 64 QAM	3560.01	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
	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

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		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		
	3690	Edge_1RB_Left	1.000	5.000	20.00	6.99	0.00		
			1.002	5.000	20.04	6.98	0.00		
		Outer_Full	1.000	4.998	20.01	6.99	0.03		
			1.000	4.998	20.01	6.99	0.03		
		Inner_1RB_Left	1.000	5.000	20.00	6.99	0.00		
			1.000	5.000	20.00	6.99	0.00		
		CP-OFDM 256 QAM	3560.01	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		
	1.002			5.000	20.04	6.98	0.00		
Inner_1RB_Left	1.000			5.000	20.00	6.99	0.00		
	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		
			1.000	5.000	20.00	6.99	0.00		
	Outer_Full		1.002	5.000	20.04	6.98	0.00		
			1.002	5.000	20.04	6.98	0.00		
	Inner_1RB_Left		1.000	5.000	20.00	6.99	0.00		
			1.000	5.000	20.00	6.99	0.00		
3690	Edge_1RB_Left	1.002	5.000	20.04	6.98	0.00			
		1.002	5.000	20.04	6.98	0.00			
	Outer_Full	1.000	5.000	20.00	6.99	0.04			
		1.002	5.002	20.03	6.98	0.01			
	Inner_1RB_Left	1.002	5.000	20.04	6.98	0.00			
		1.000	5.000	20.00	6.99	0.00			



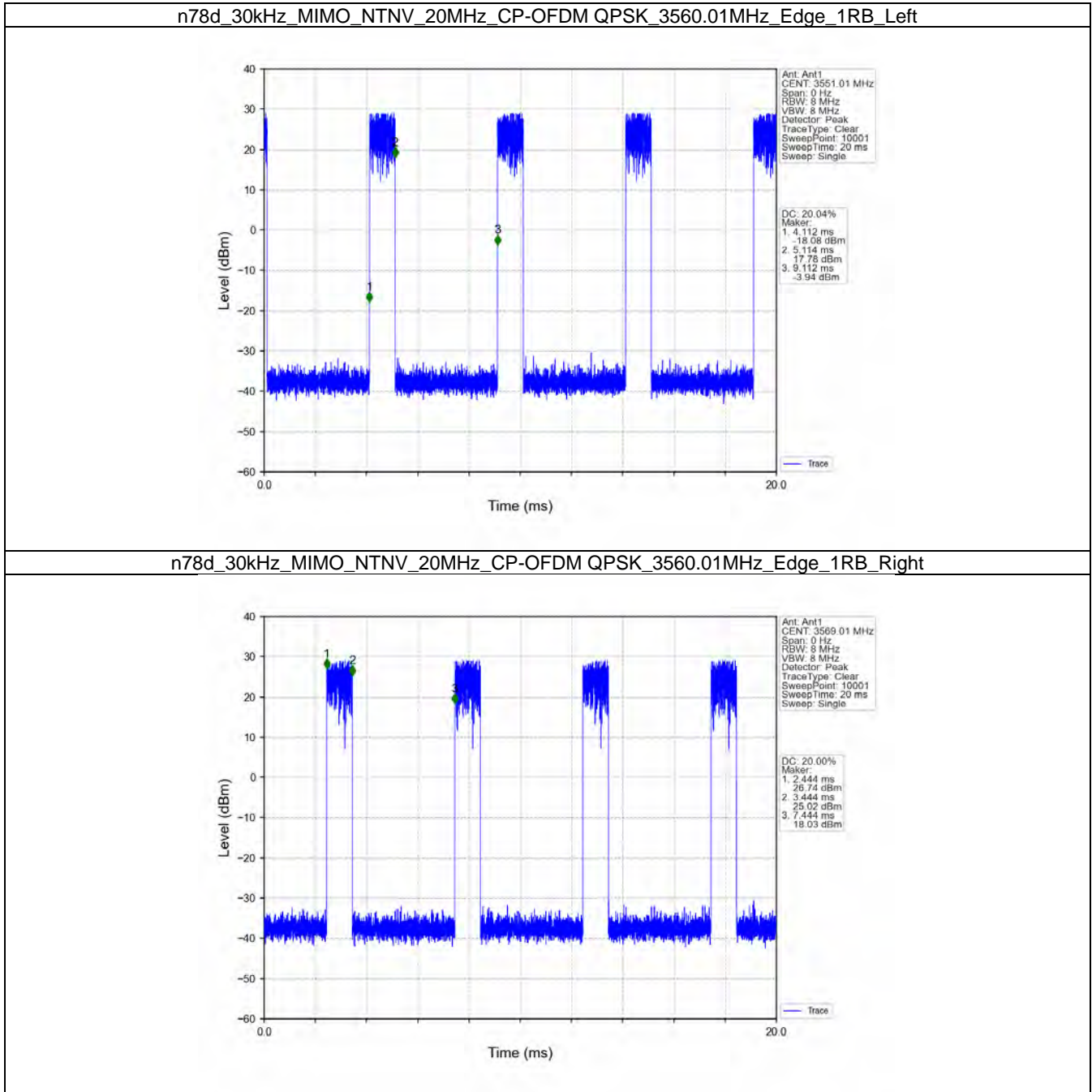
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1.3.2 Test Graph



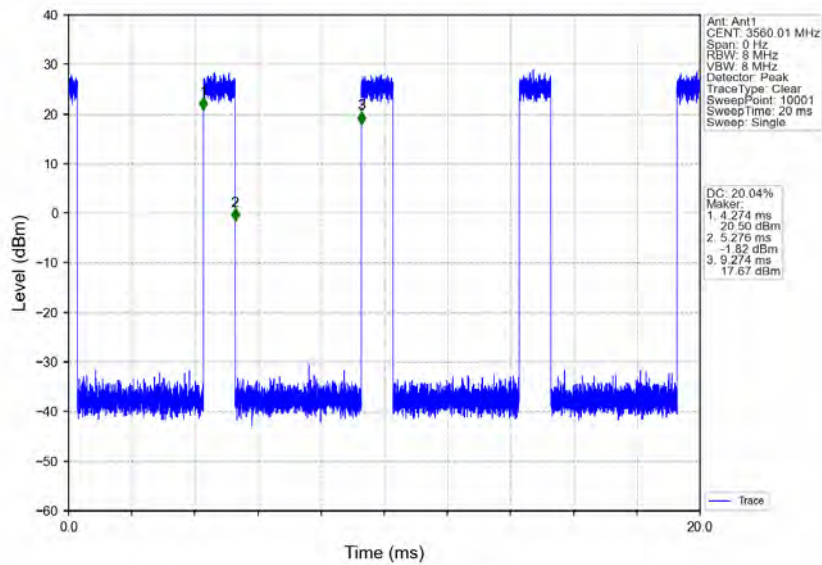
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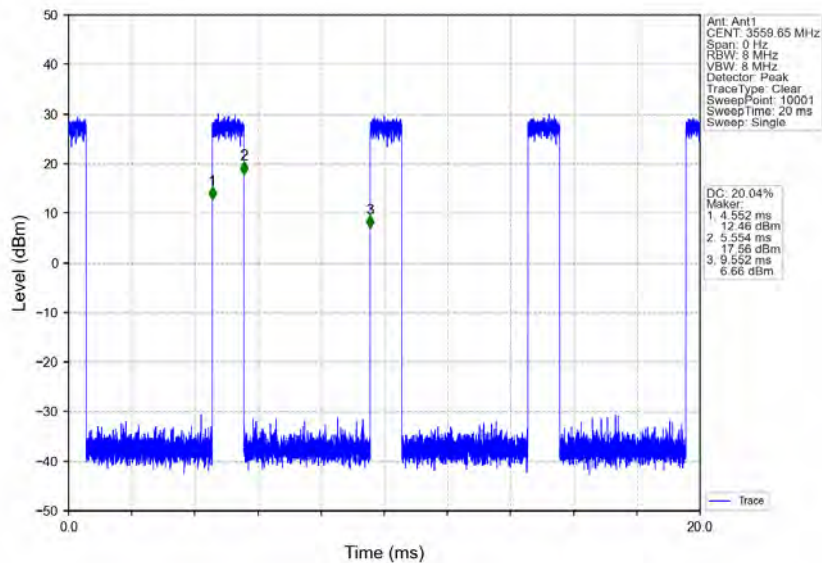
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n78d_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3560.01MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3560.01MHz_Inner_Full



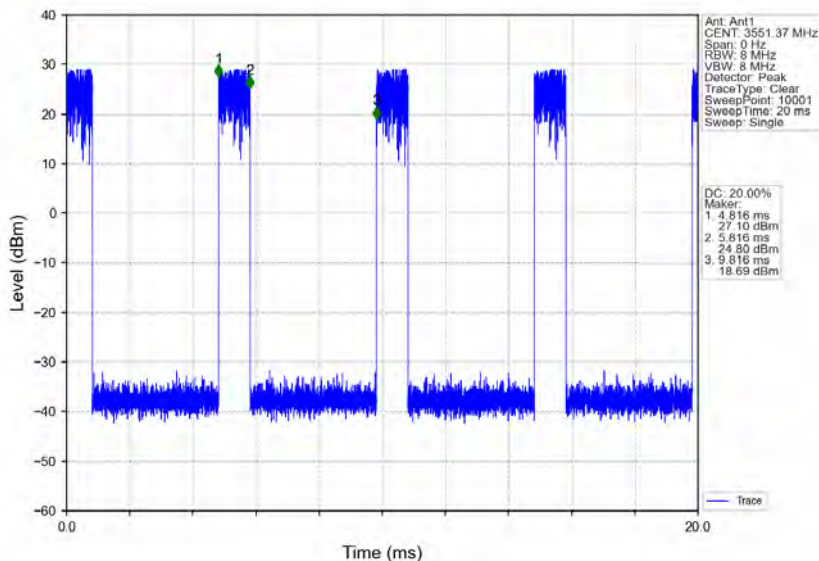
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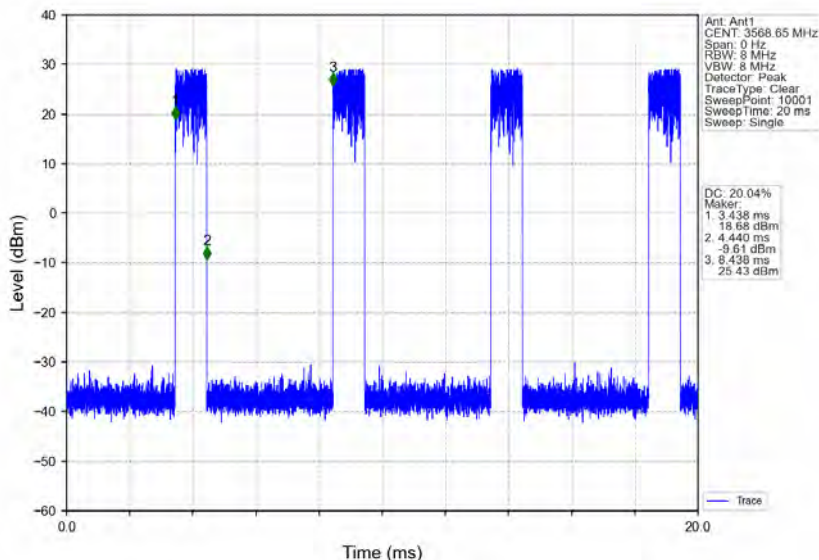
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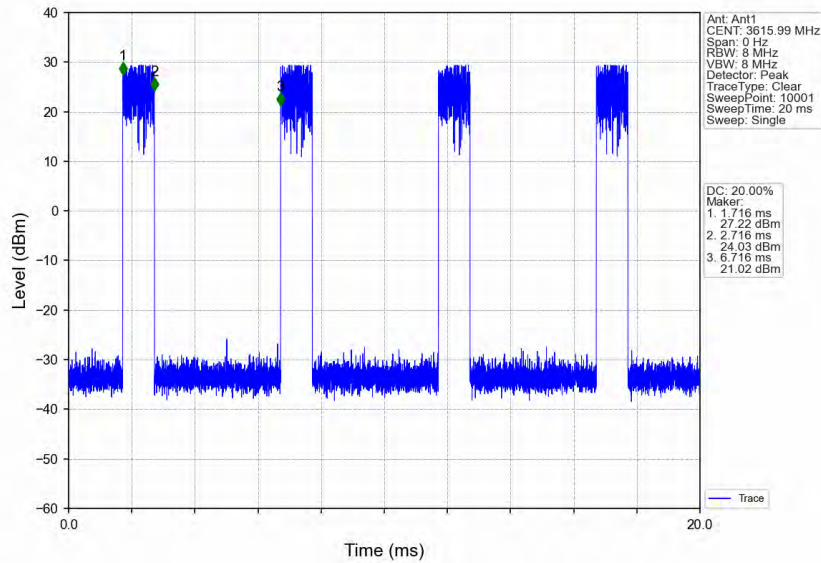
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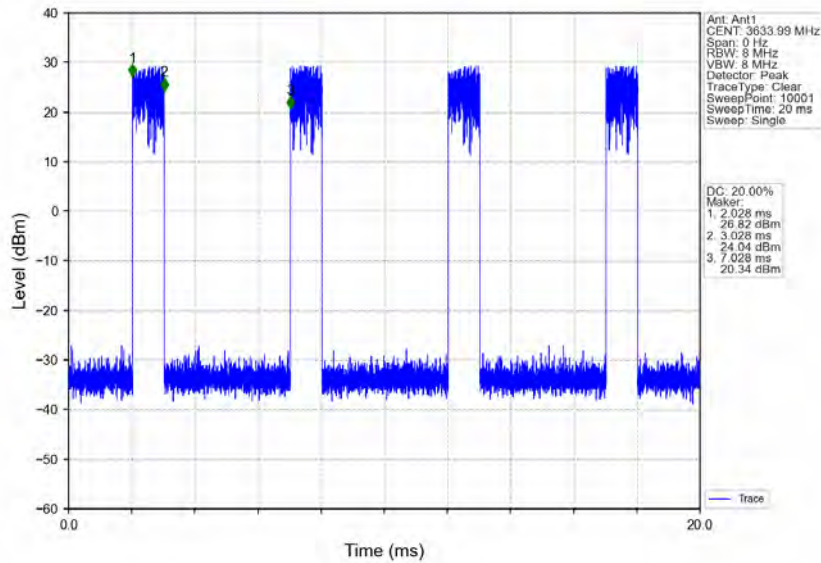
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n78d_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3624.99MHz_Edge_1RB_Right



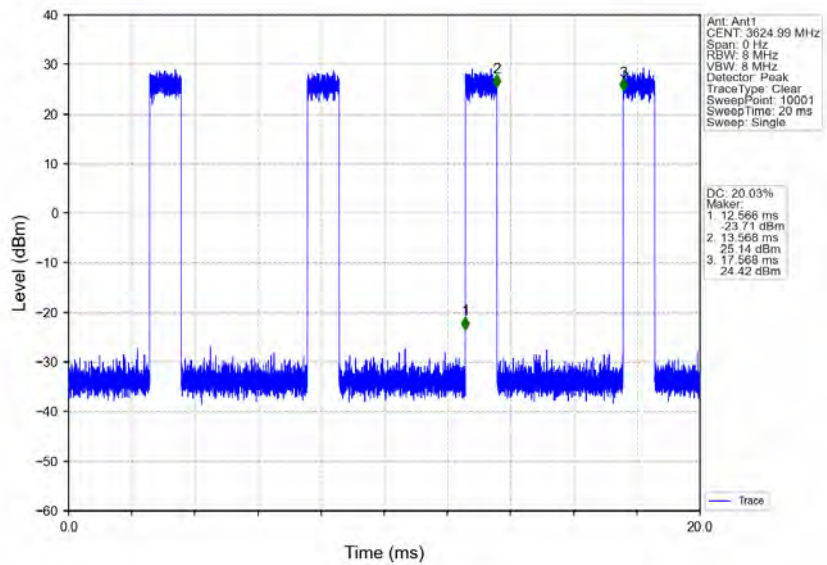
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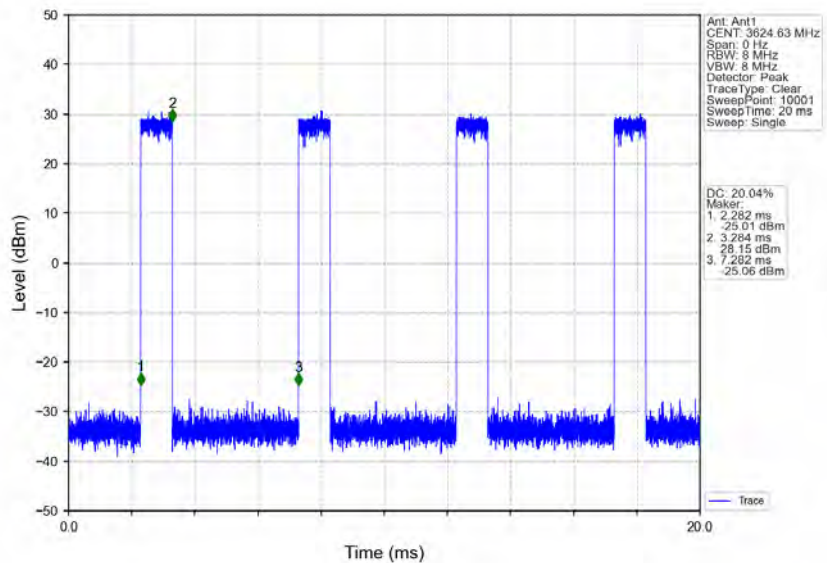
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n78d_30kHz_MIMO_NTNV_20MHz_CP-OFDM_QPSK_3624.99MHz_Outer_Full



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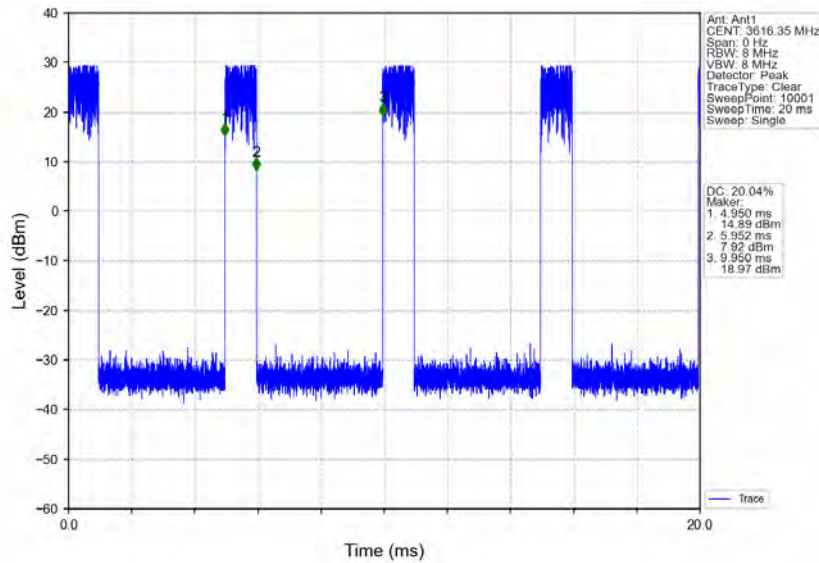
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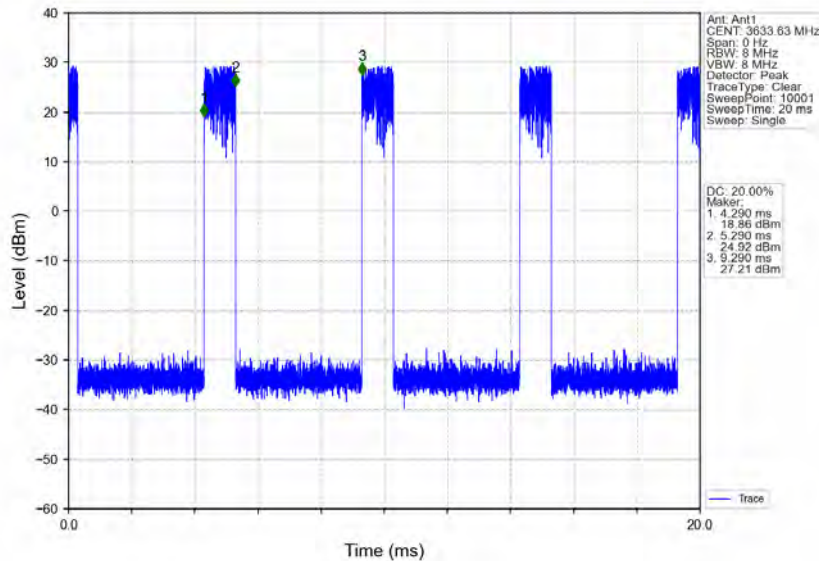
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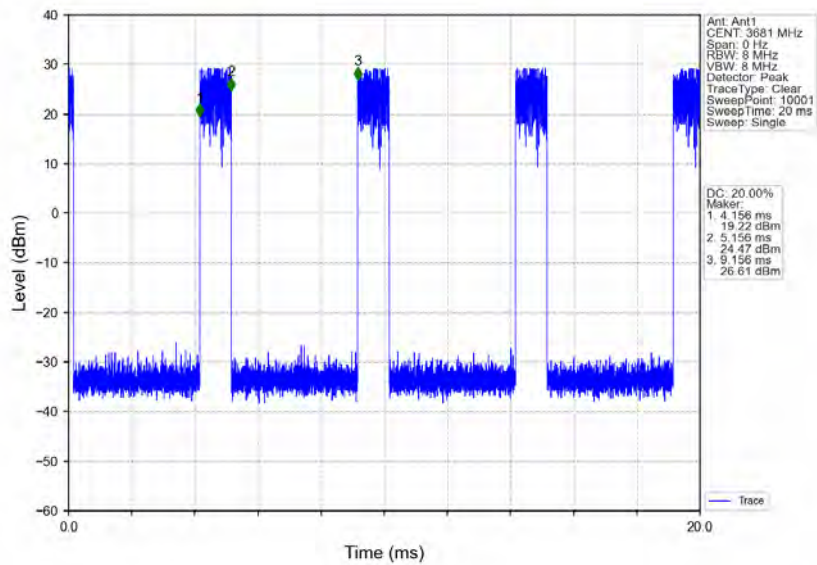
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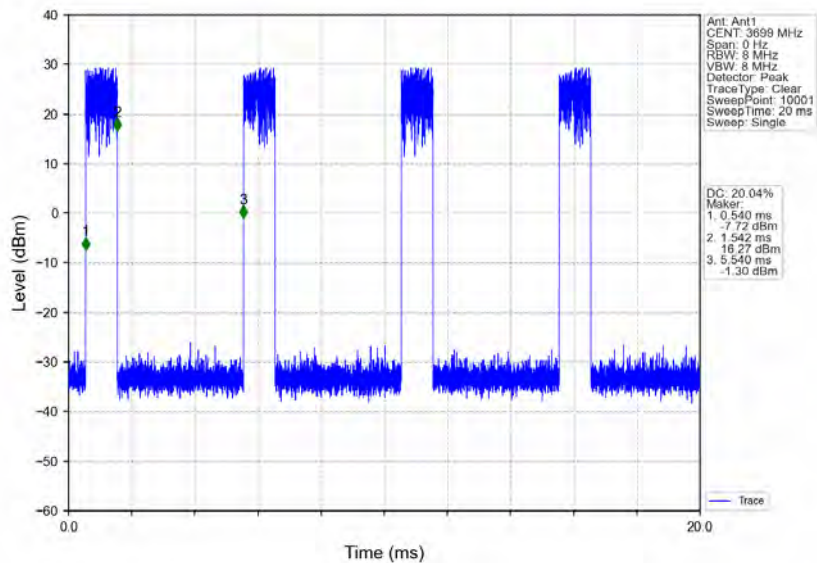
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n78d_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3690MHz_Edge_1RB_Right



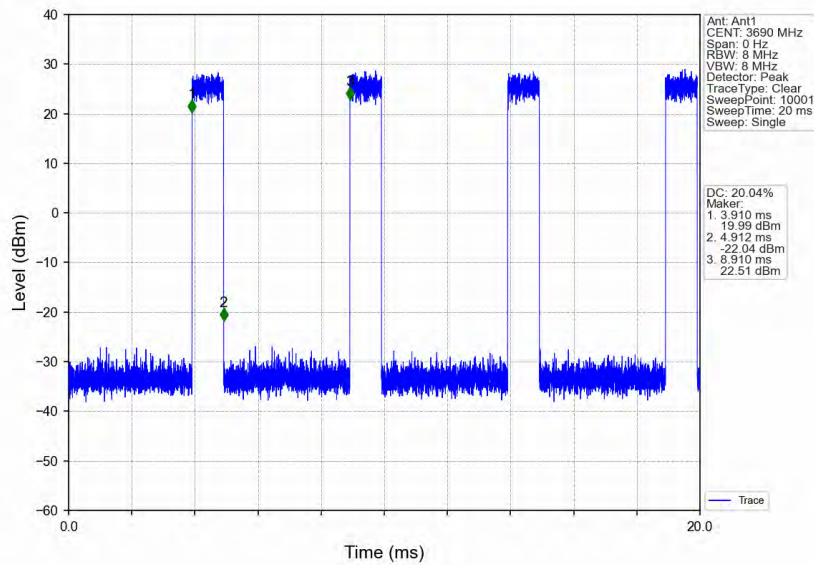
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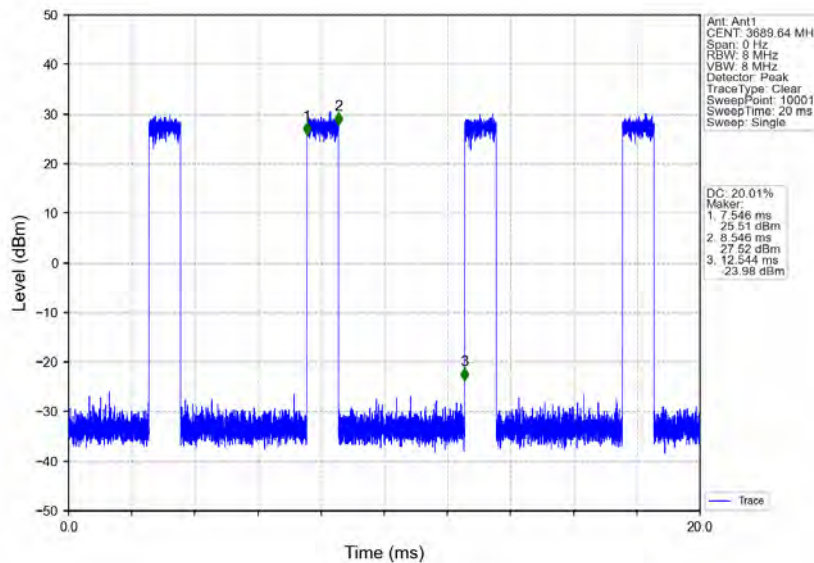
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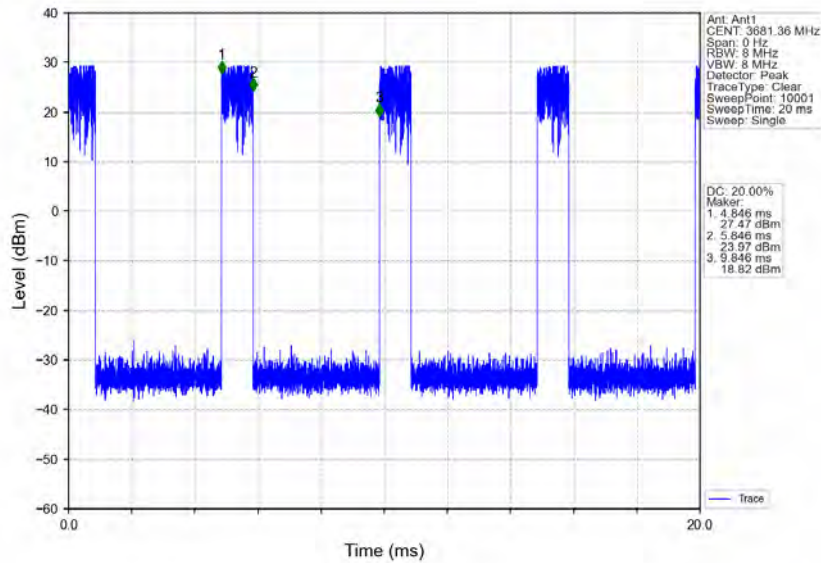
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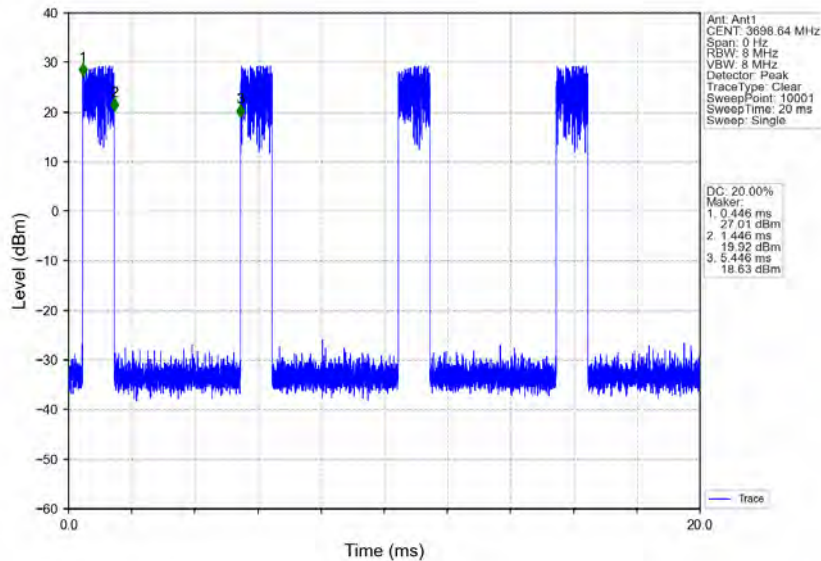
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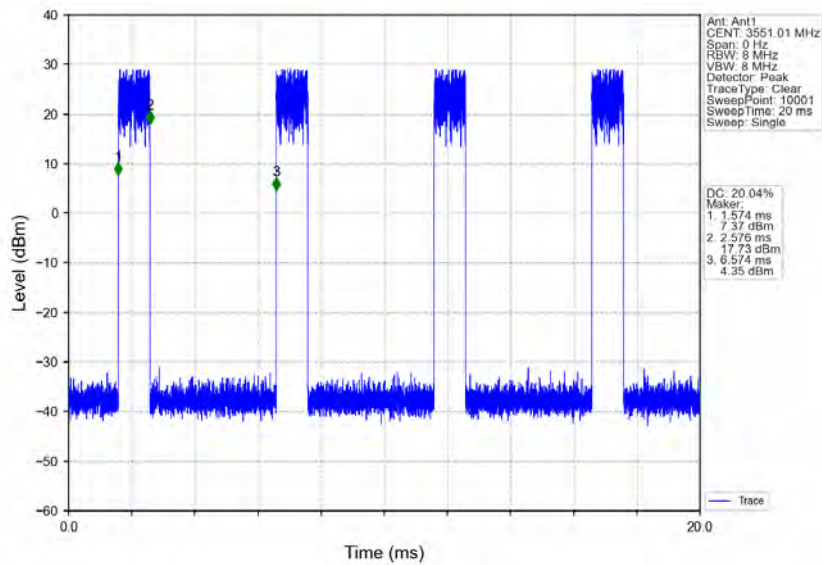
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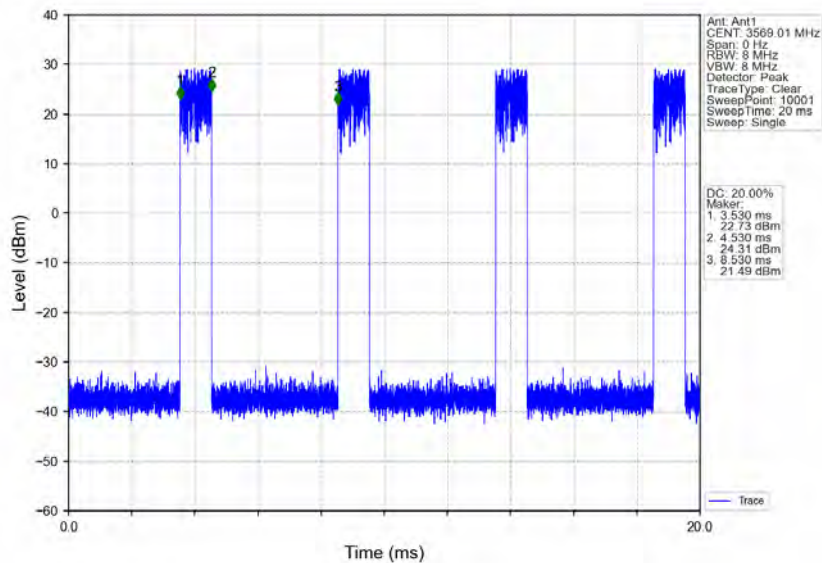
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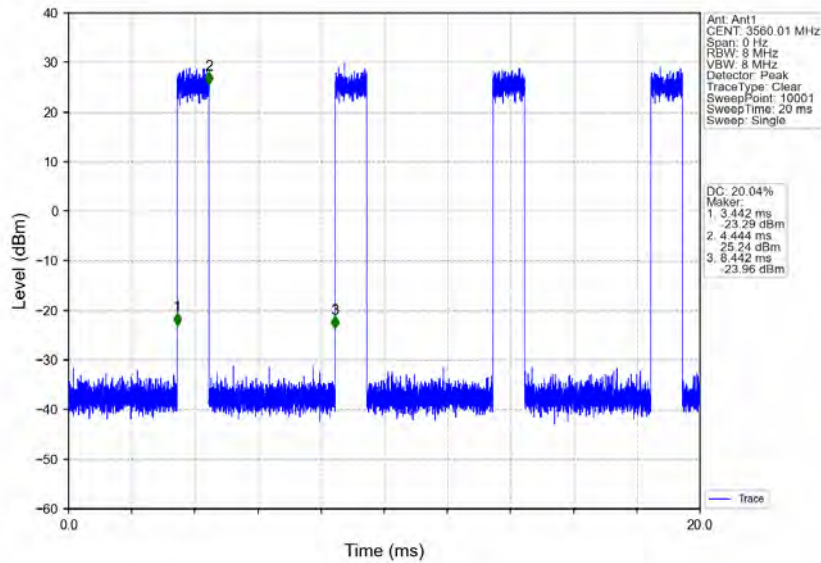
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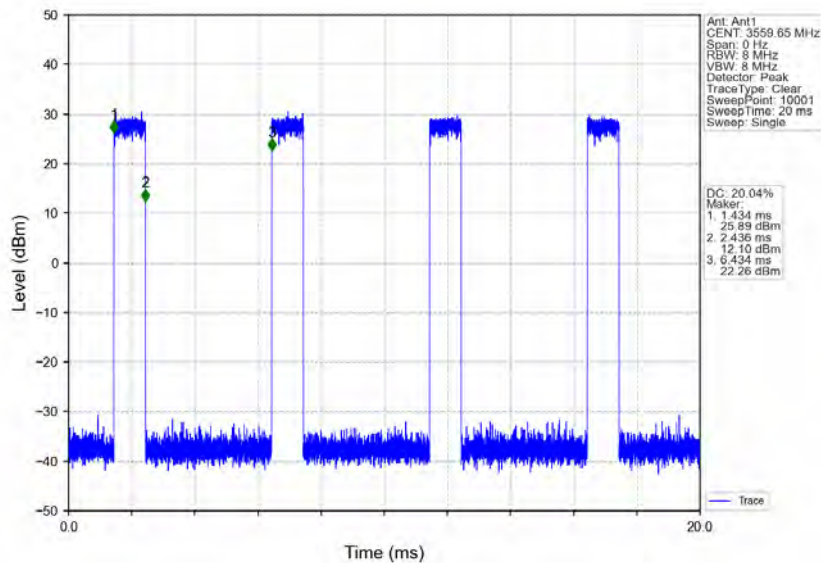
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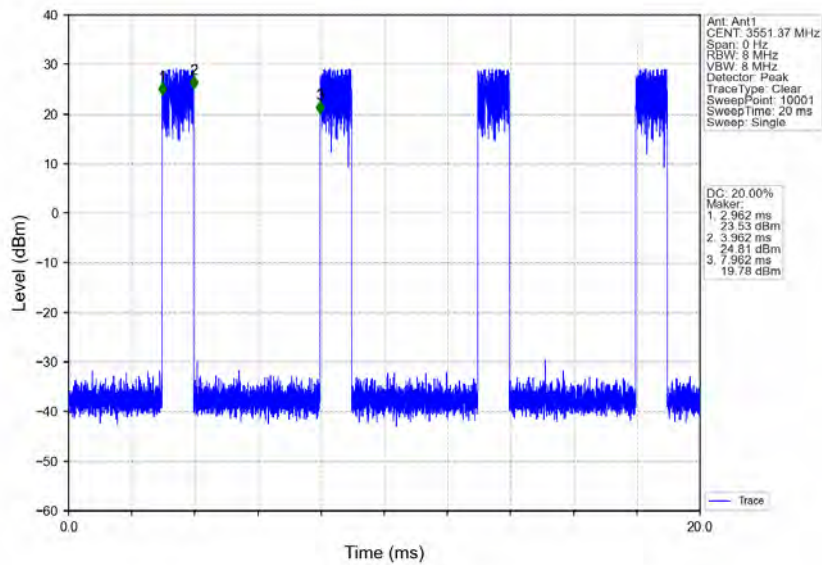
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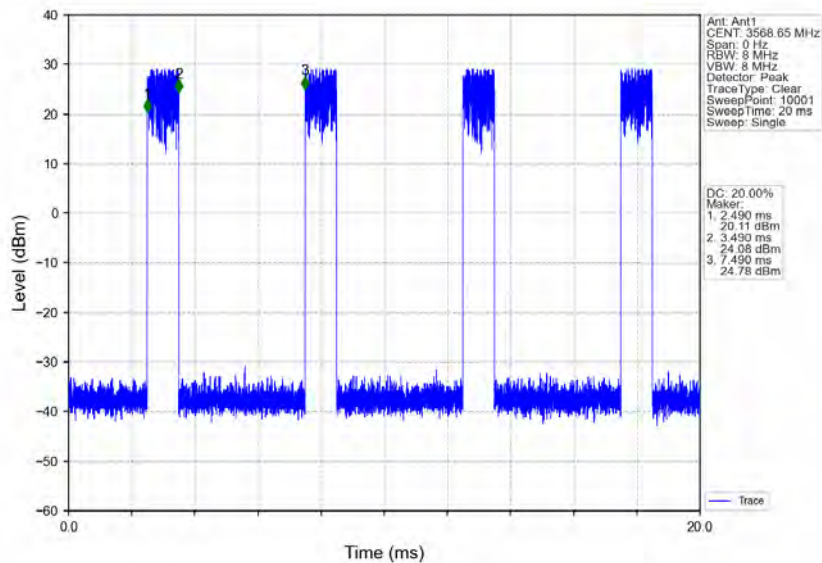
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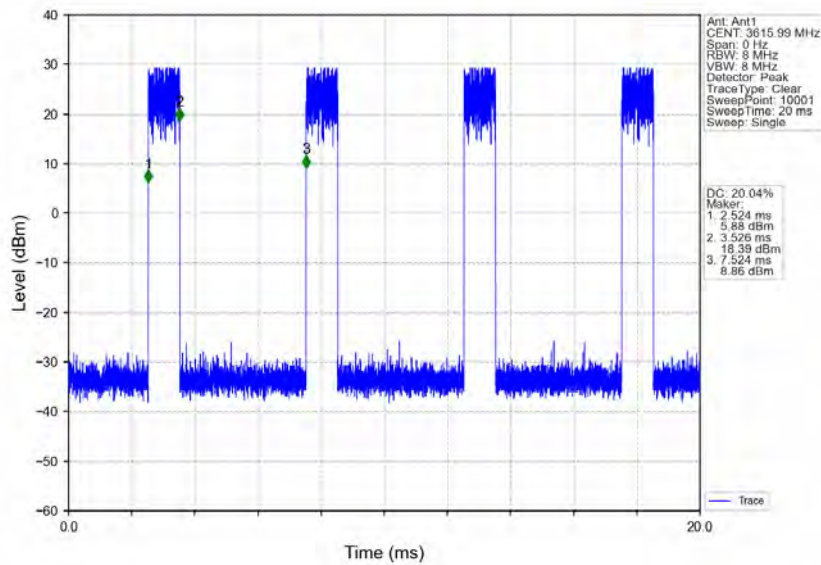
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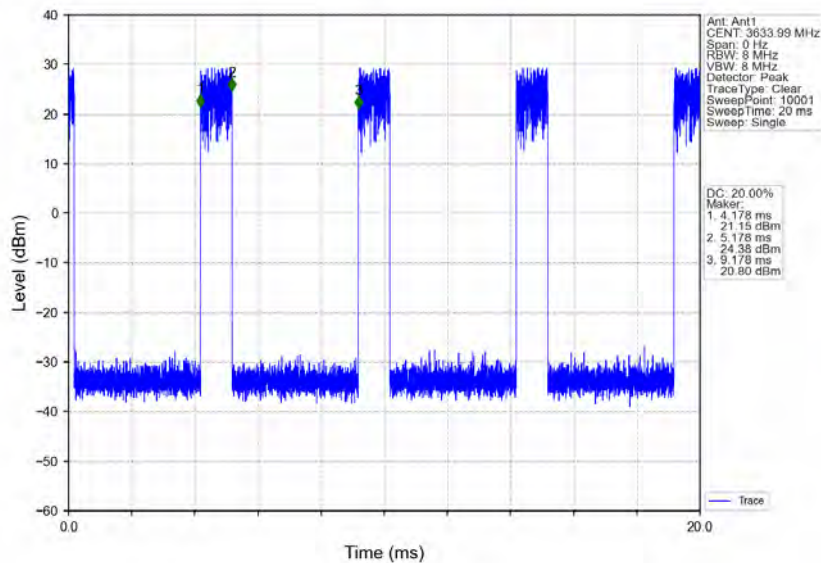
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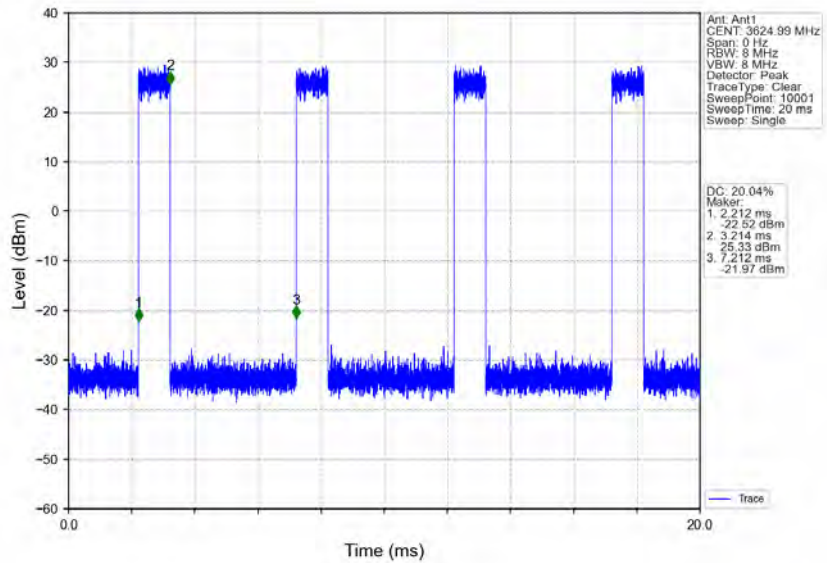
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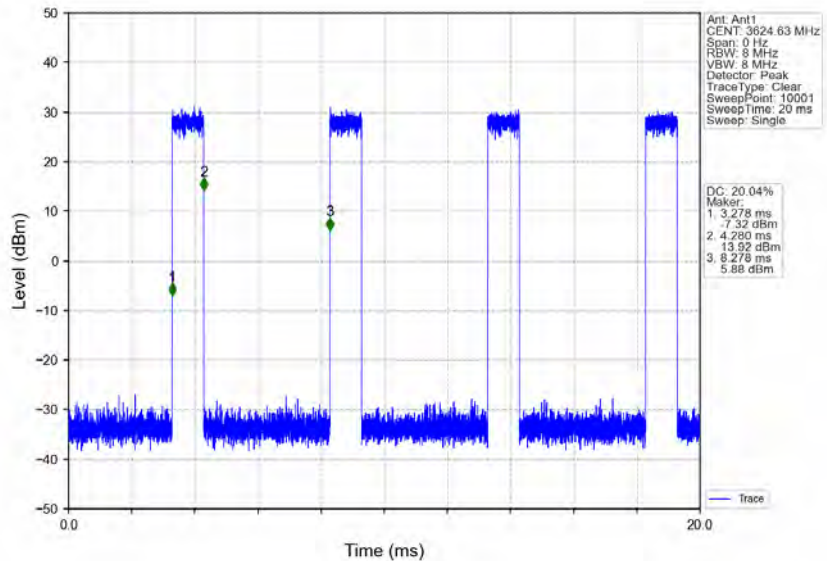
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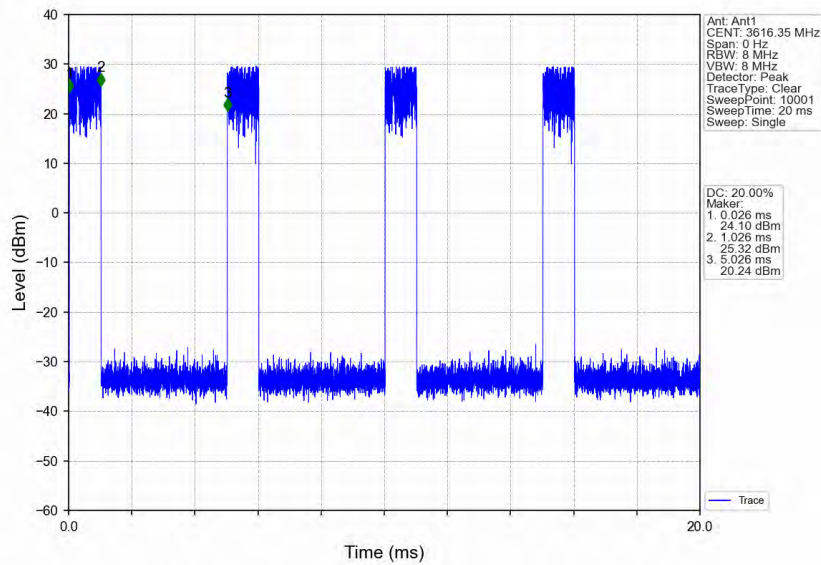
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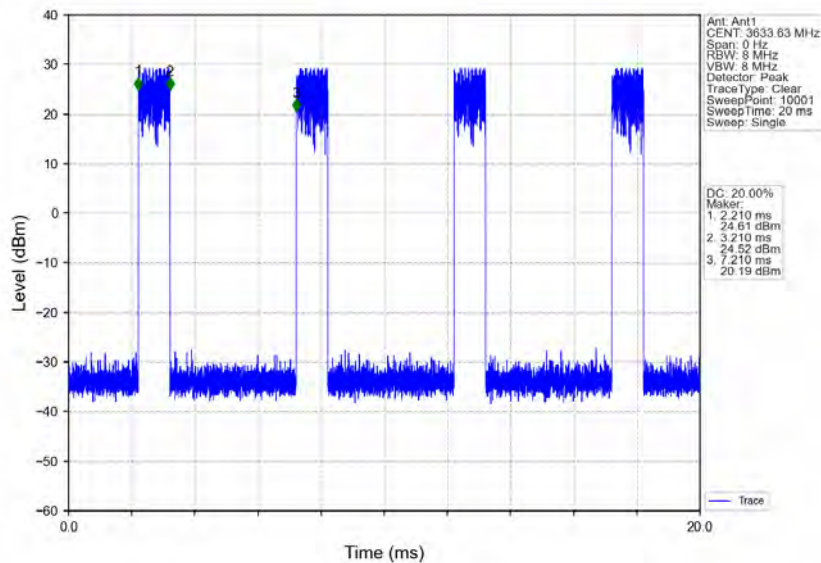
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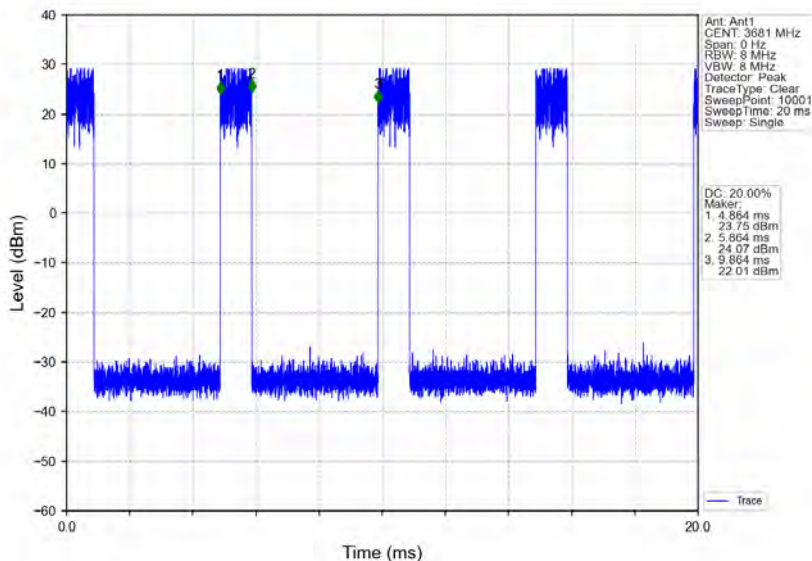
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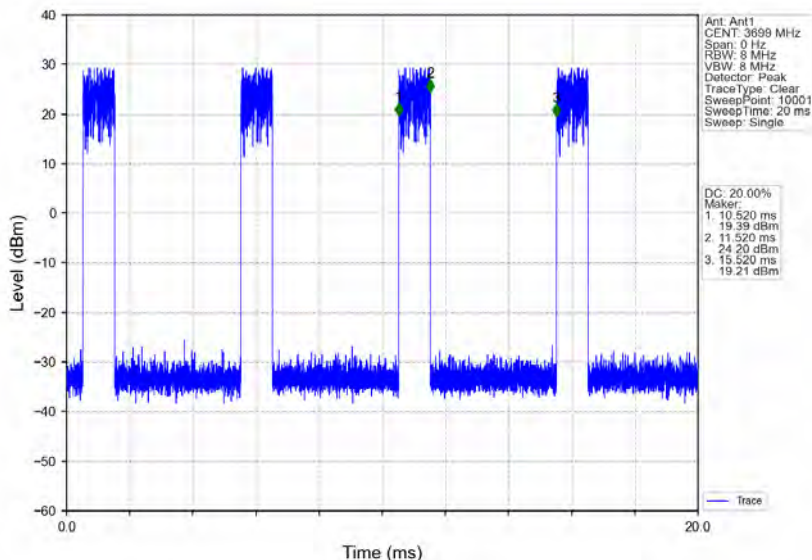
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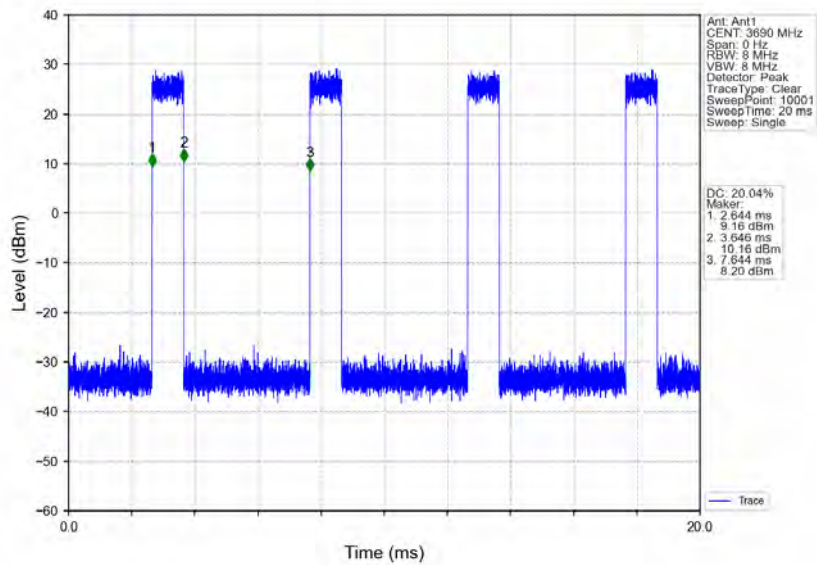
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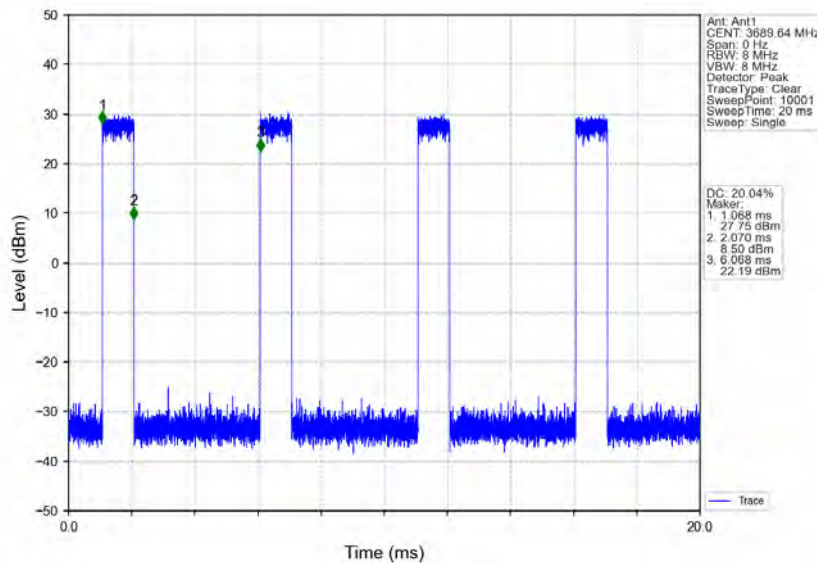
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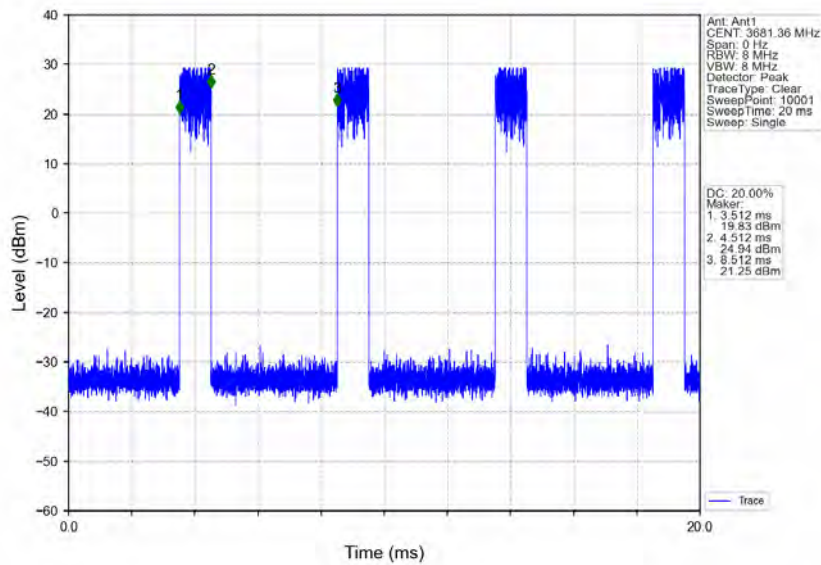
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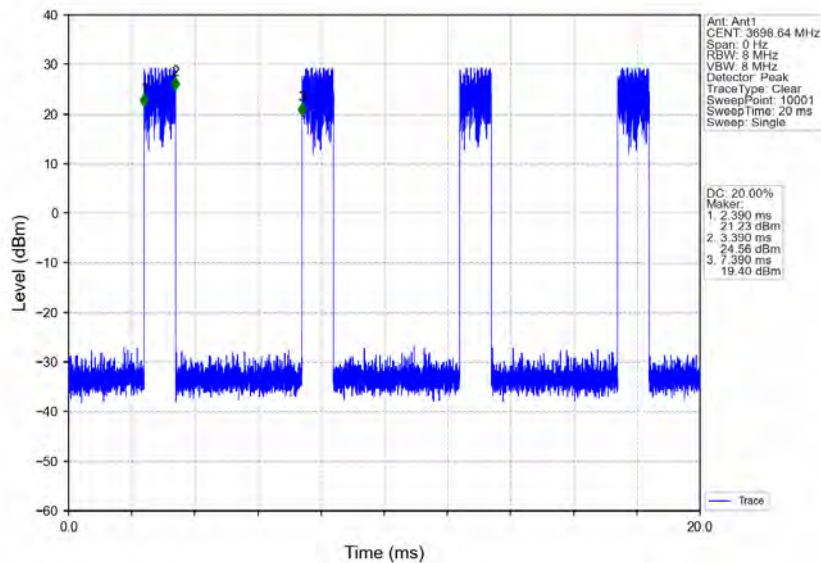
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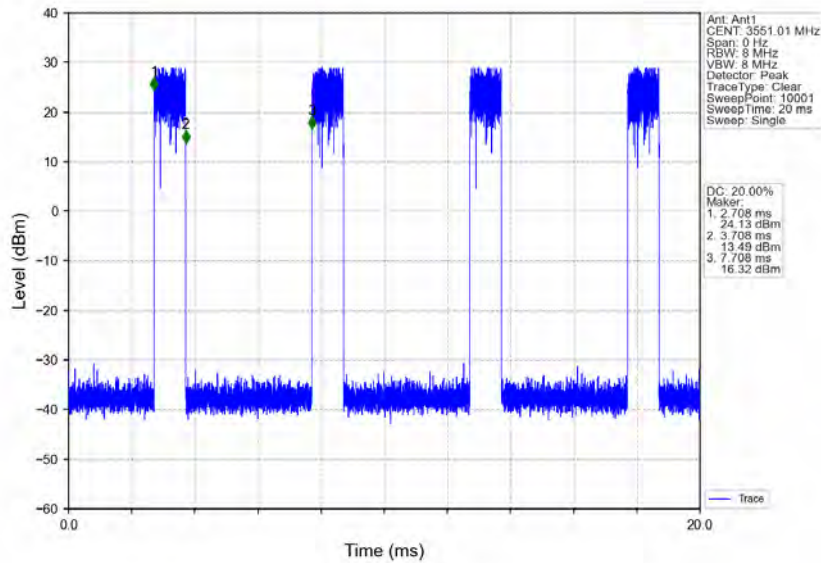
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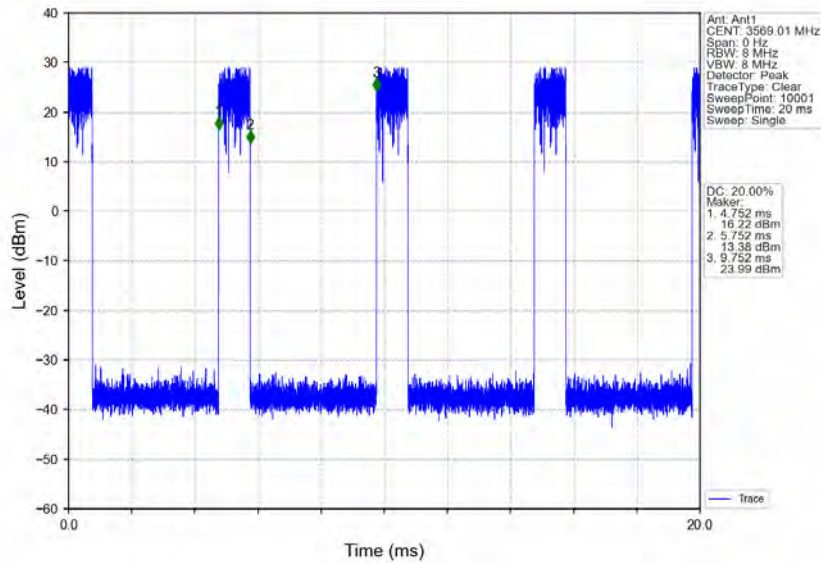
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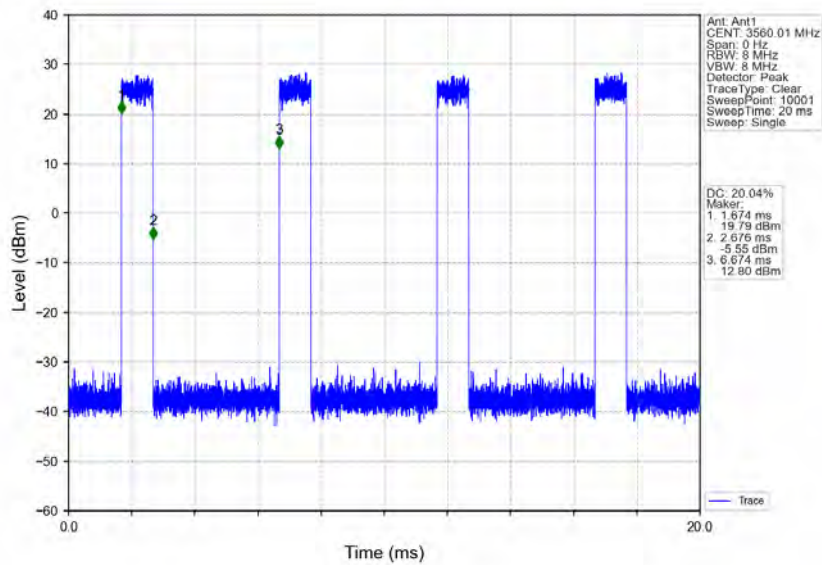
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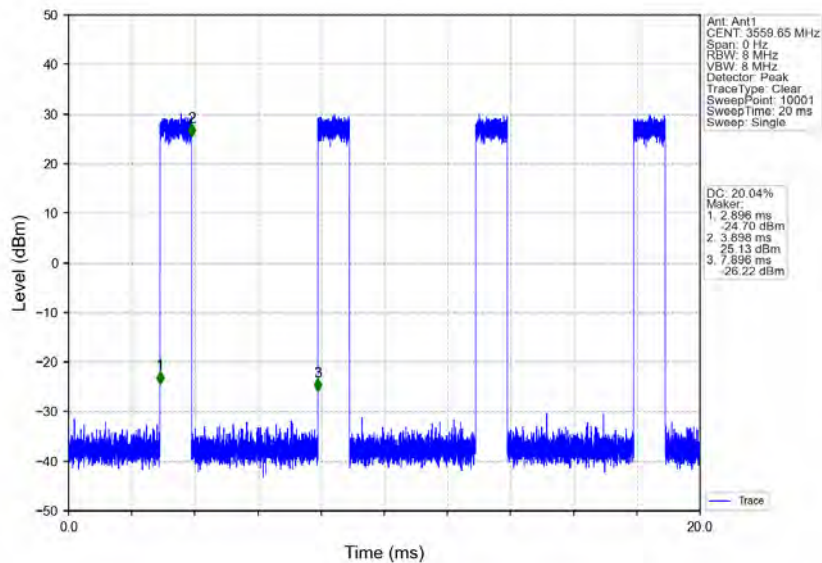
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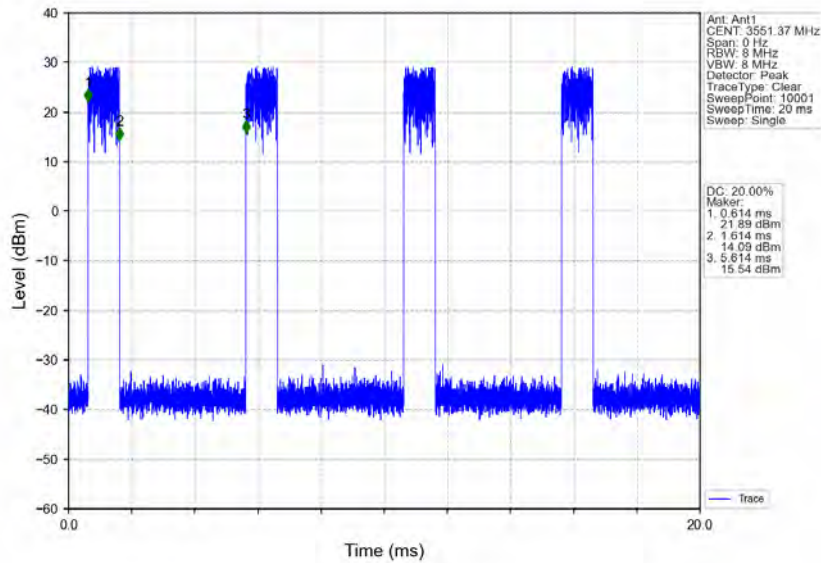
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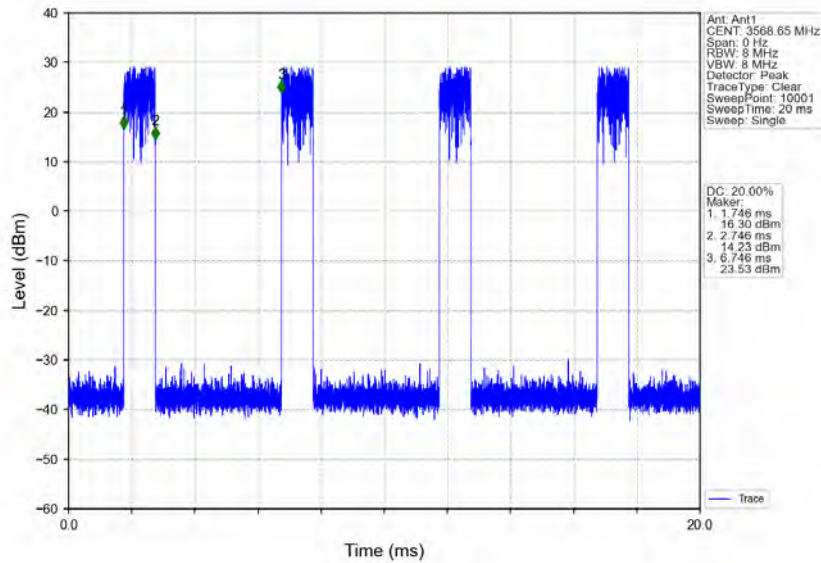
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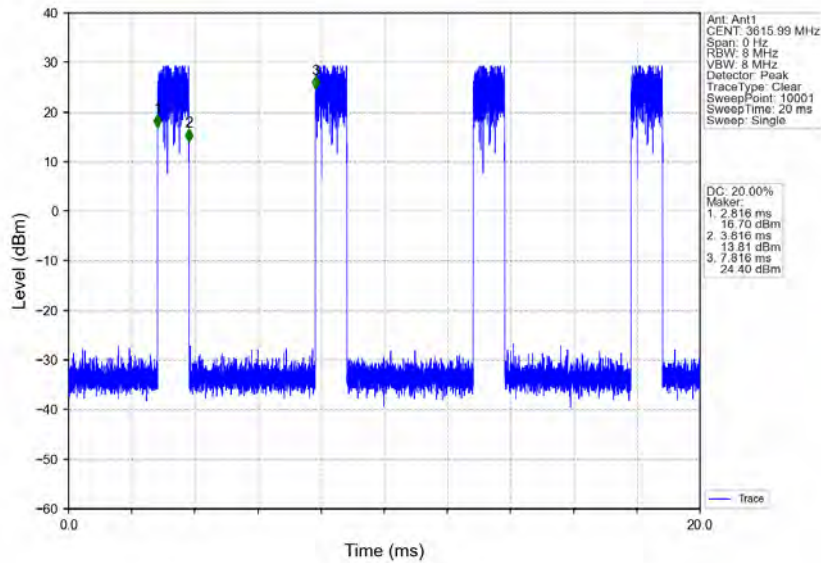
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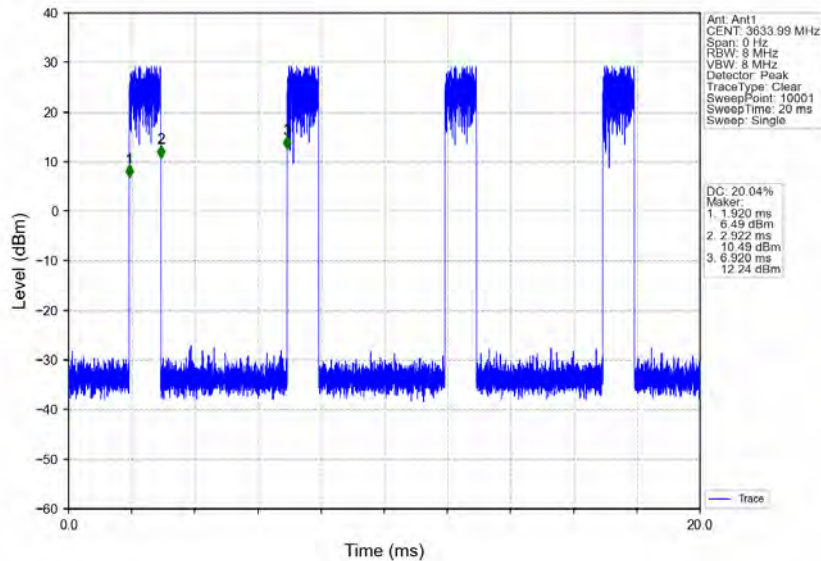
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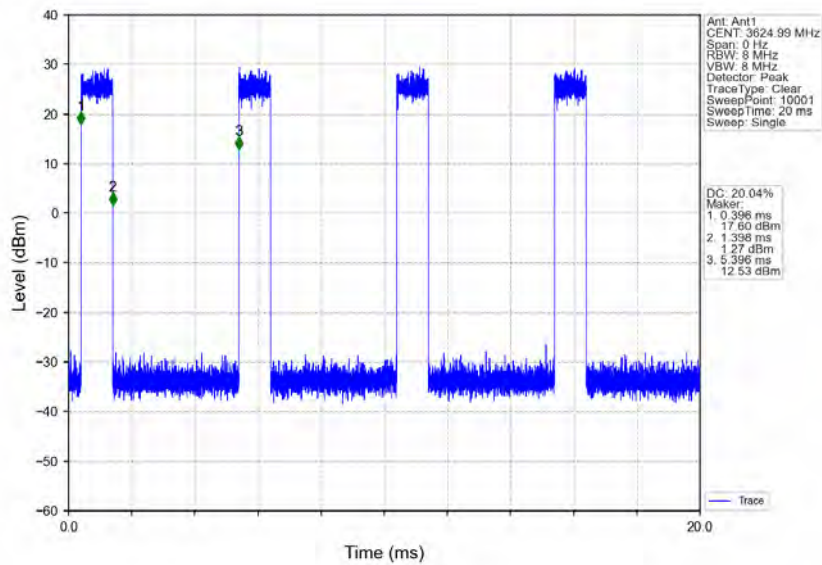
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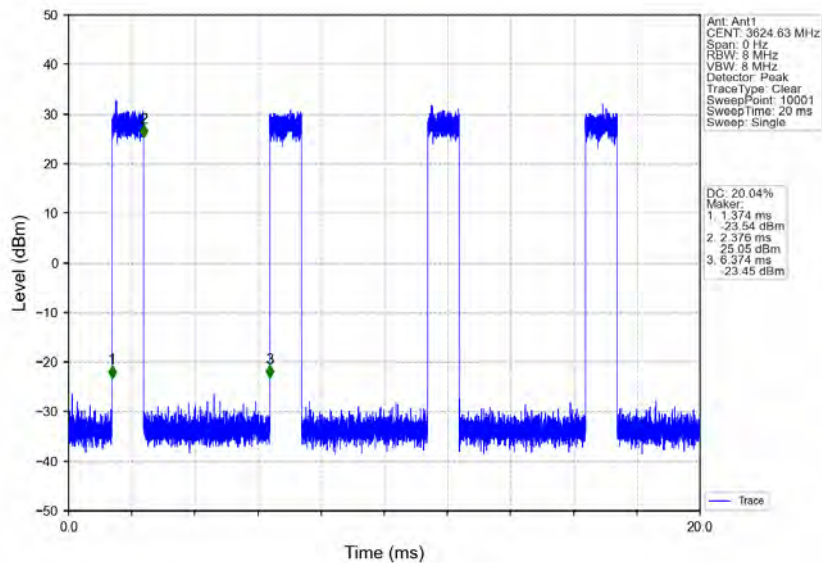
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n78d_30kHz_MIMO_NTNV_20MHz_CP-OFDM 64 QAM_3624.99MHz_Outer_Full



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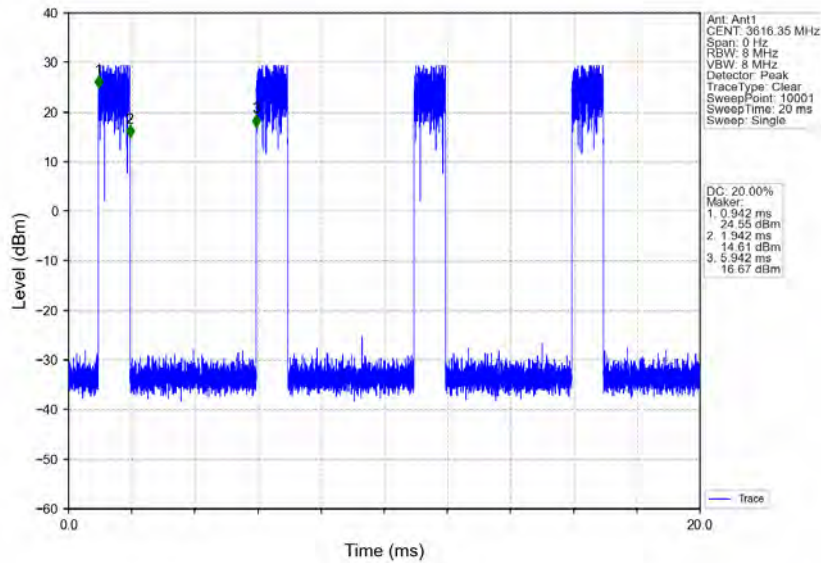
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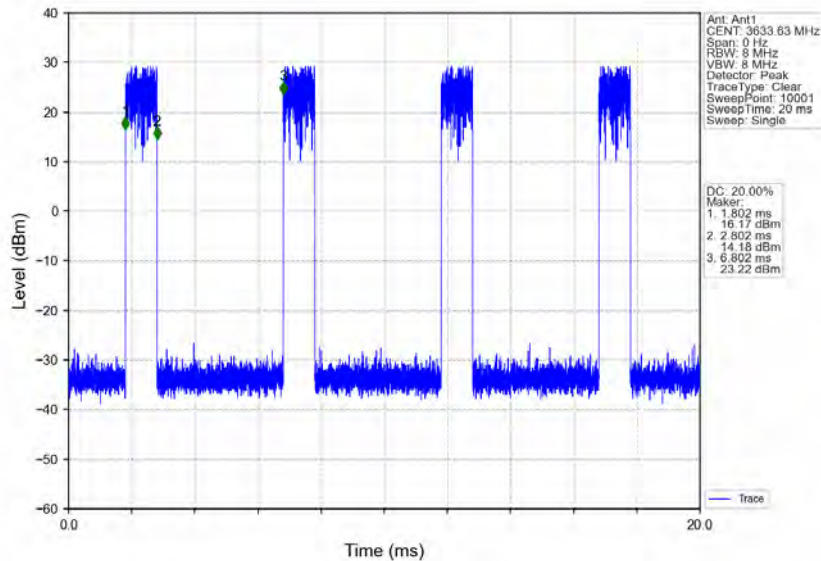
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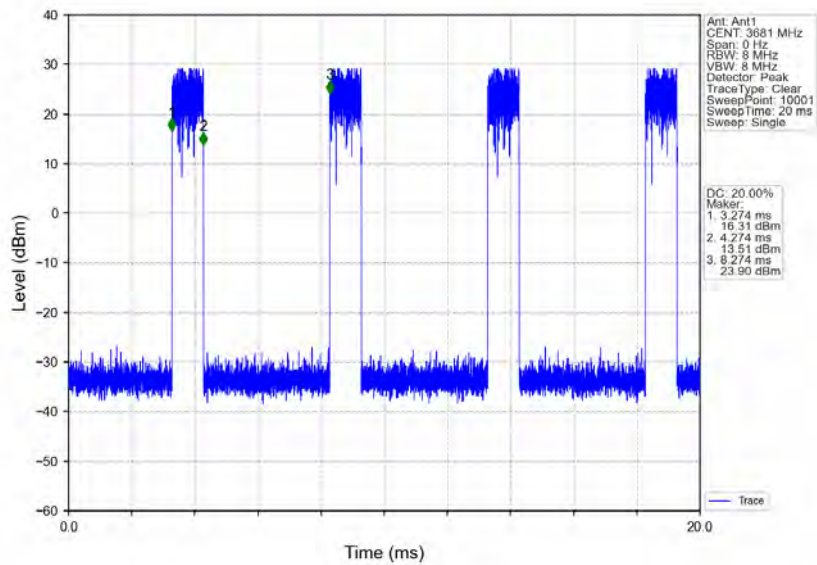
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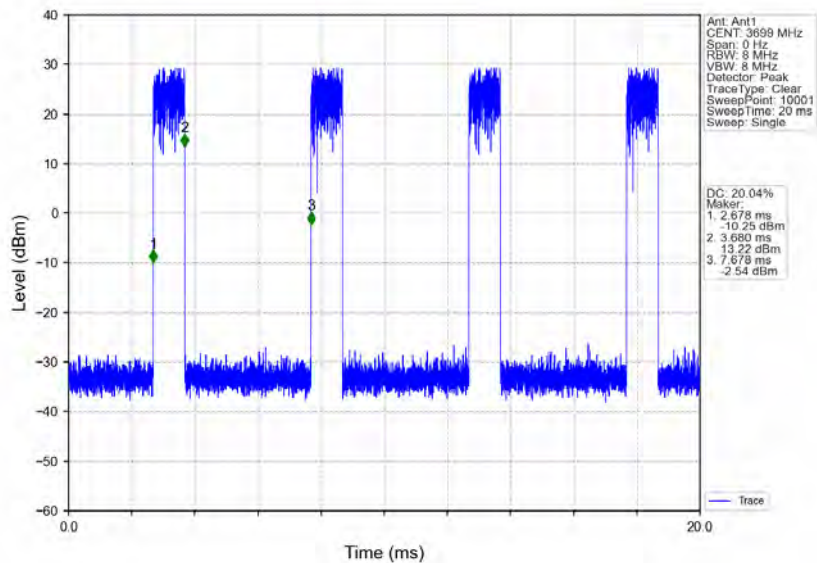
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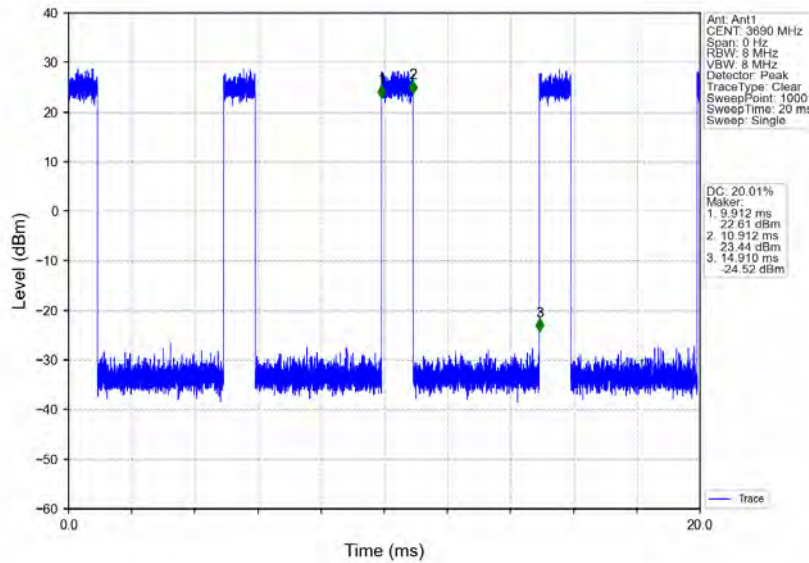
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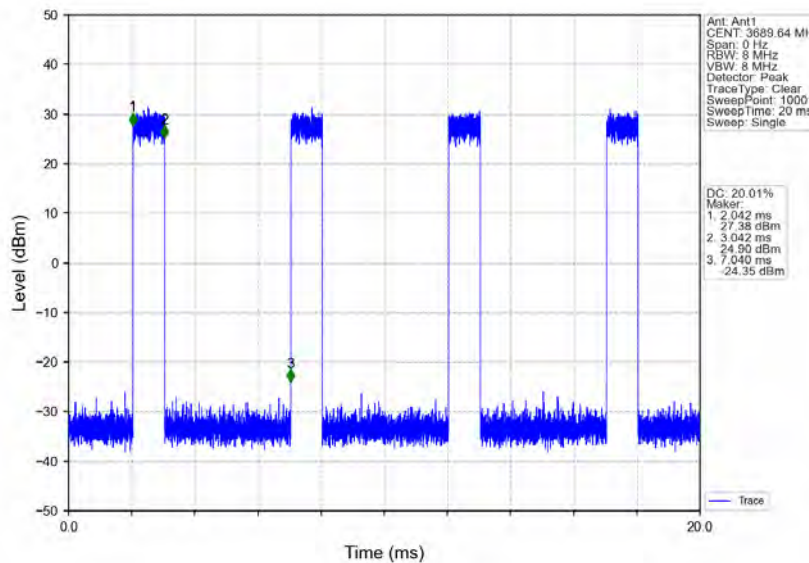
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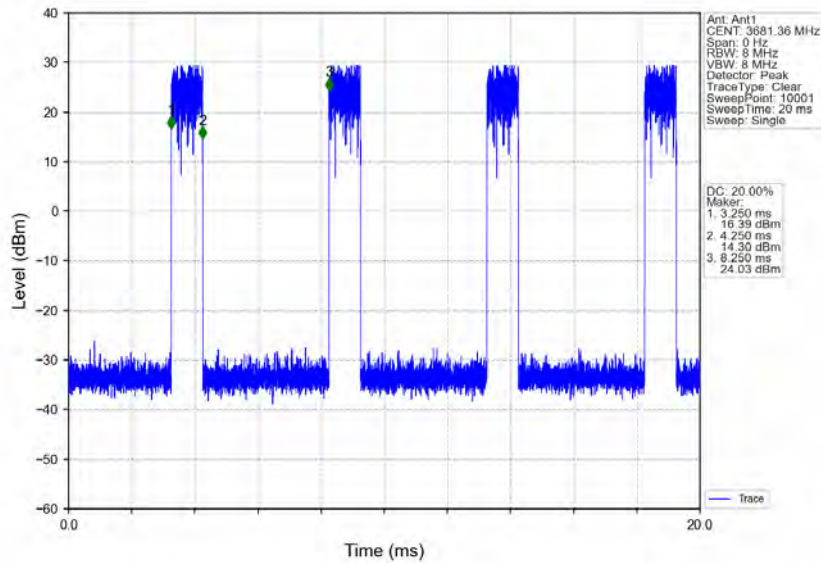
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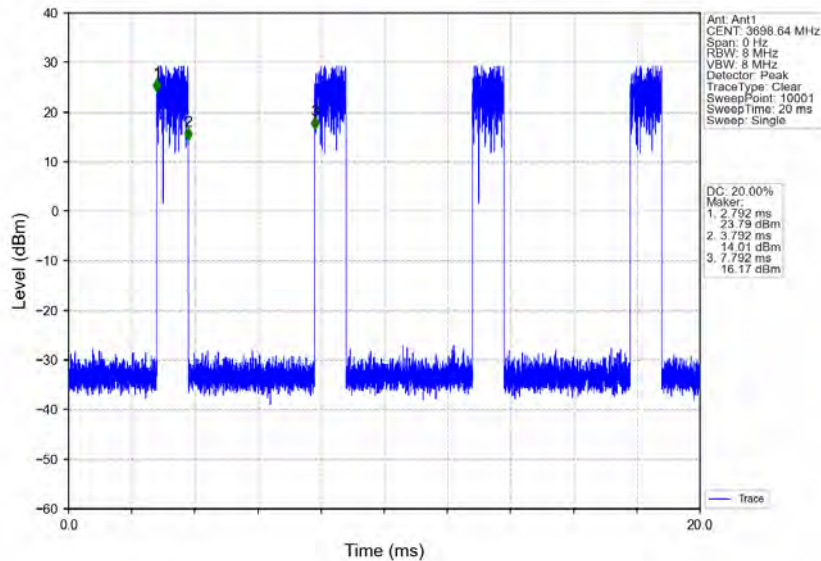
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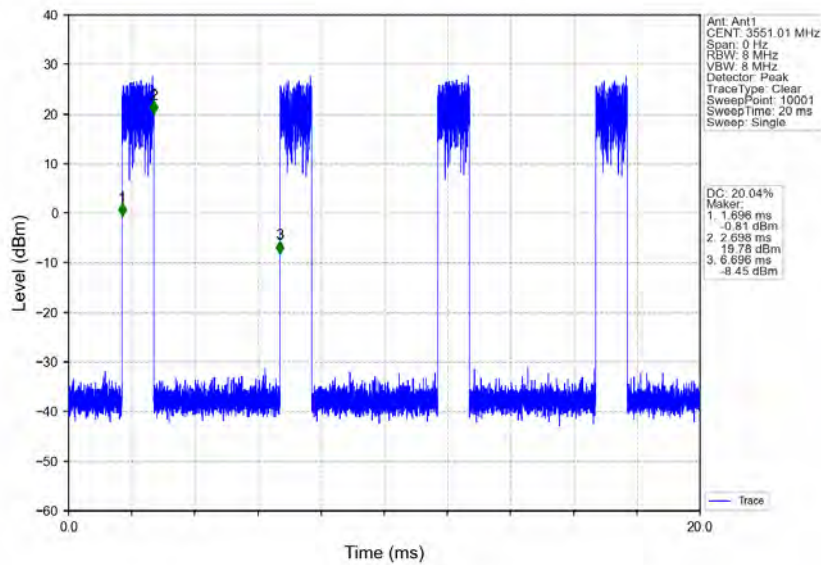
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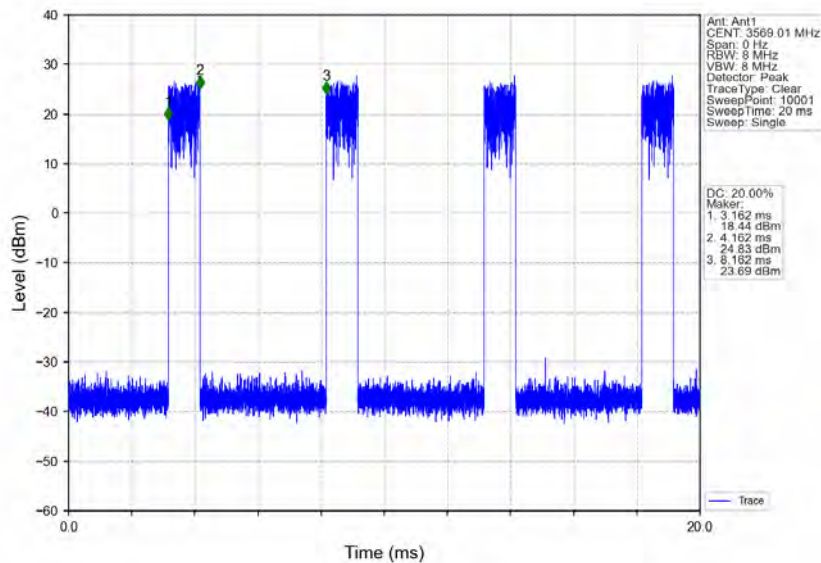
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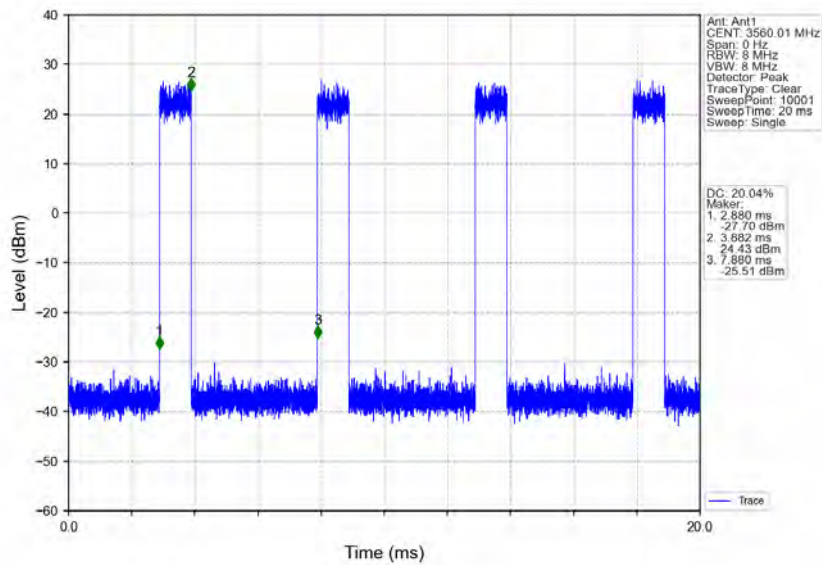
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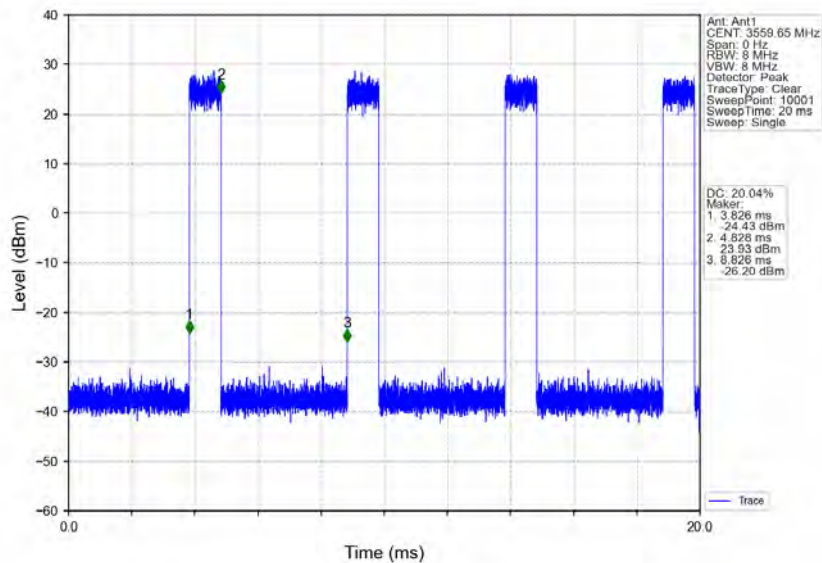
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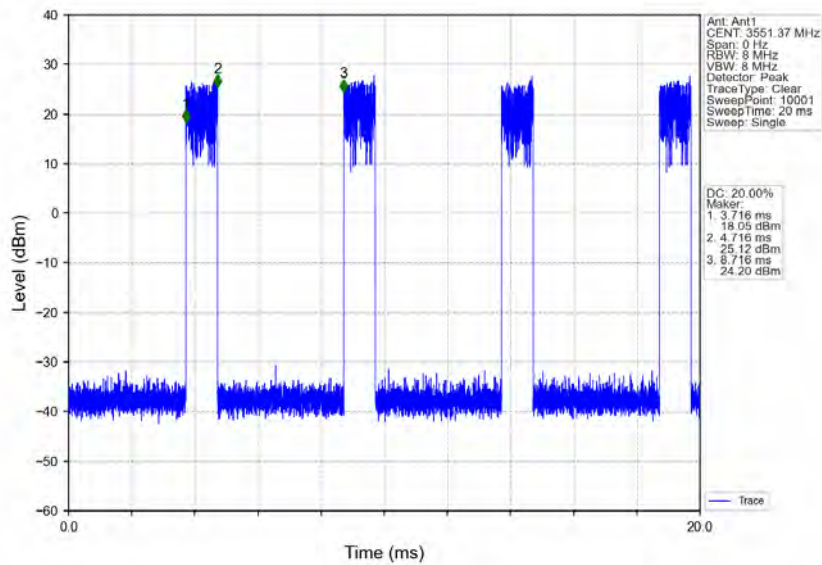
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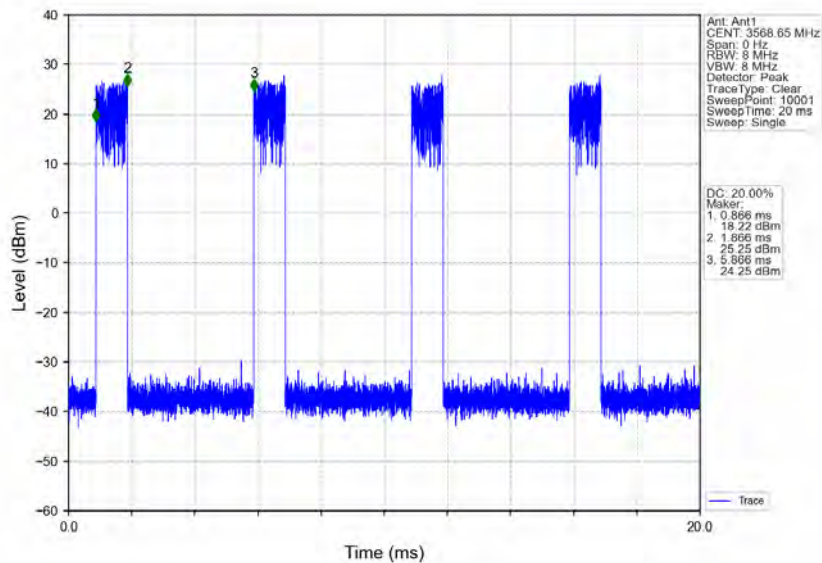
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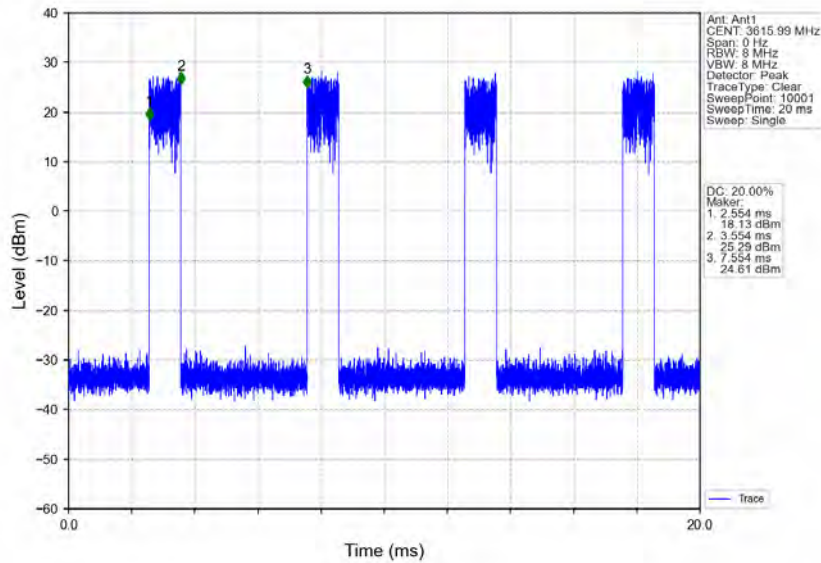
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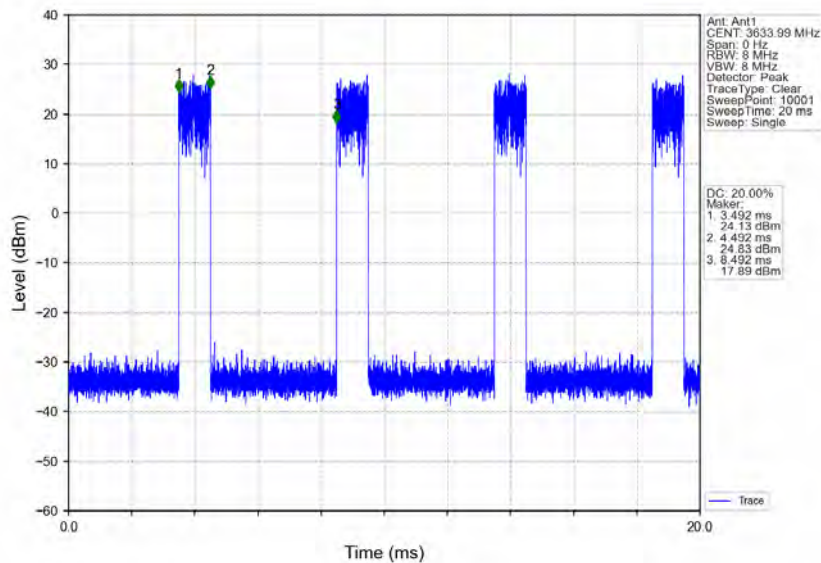
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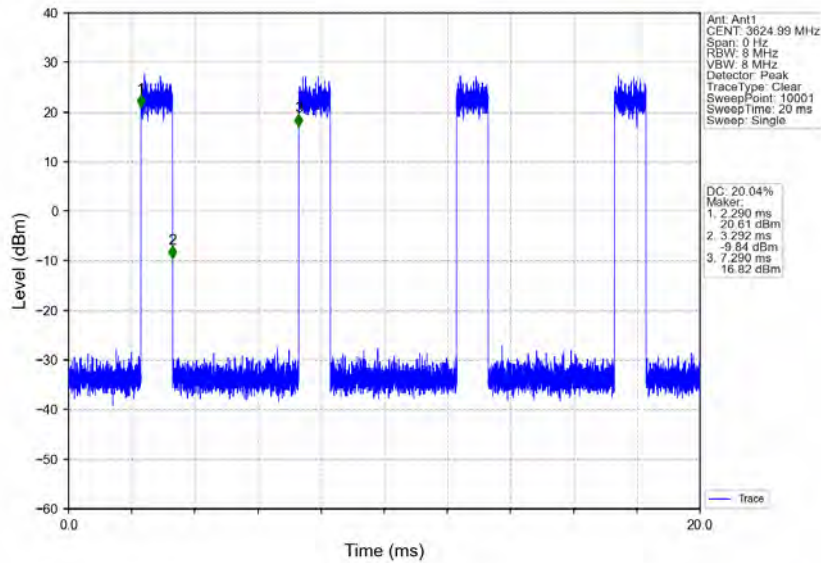
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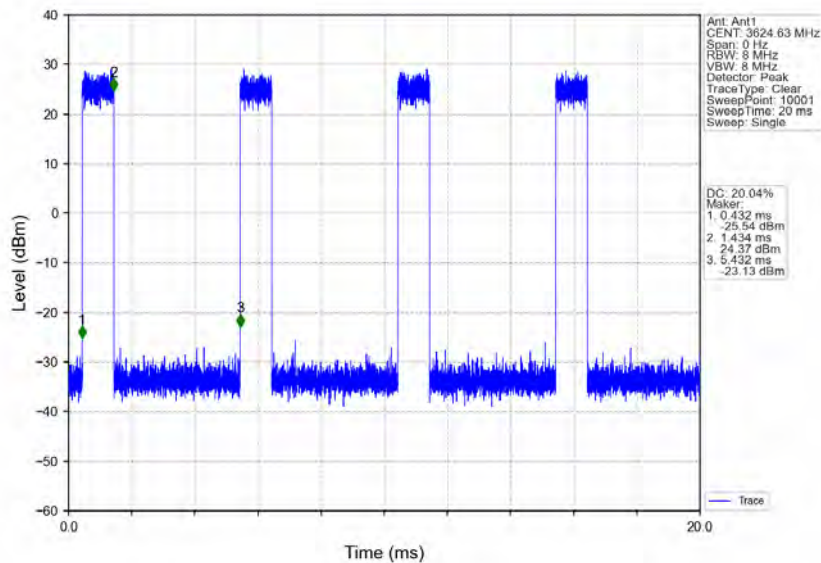
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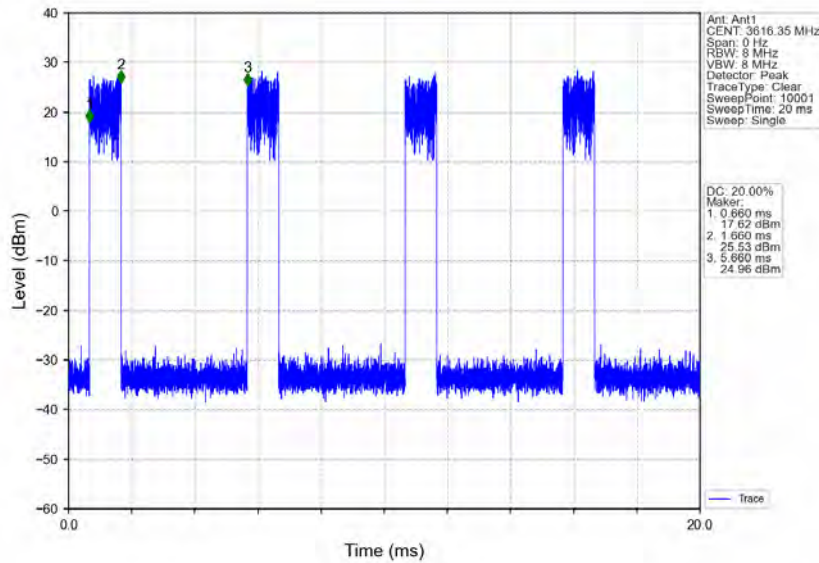
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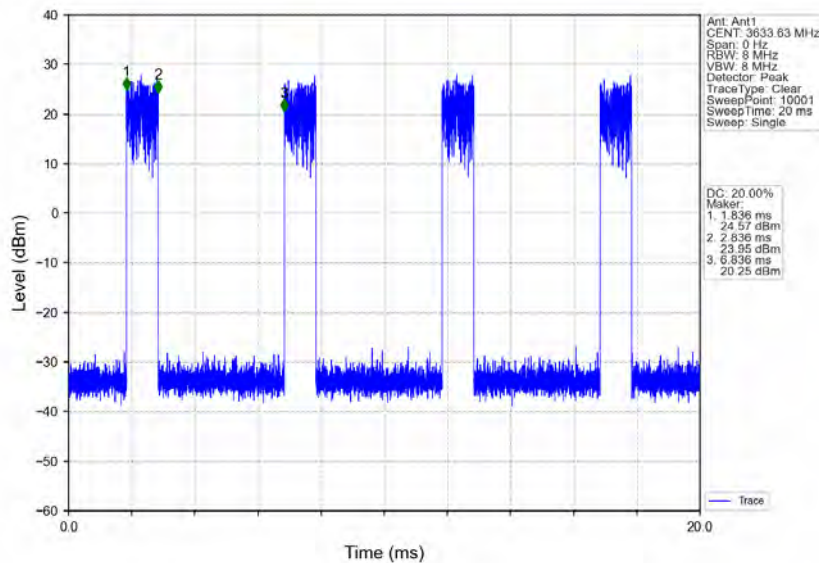
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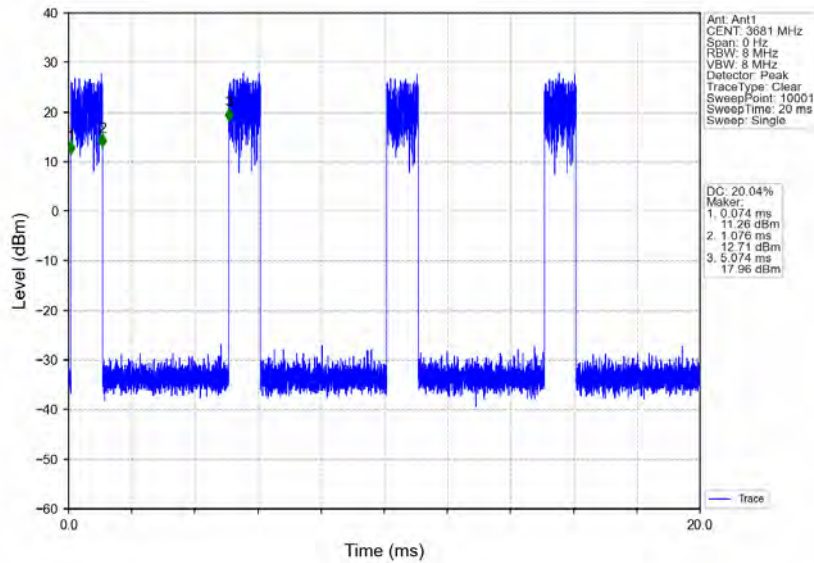
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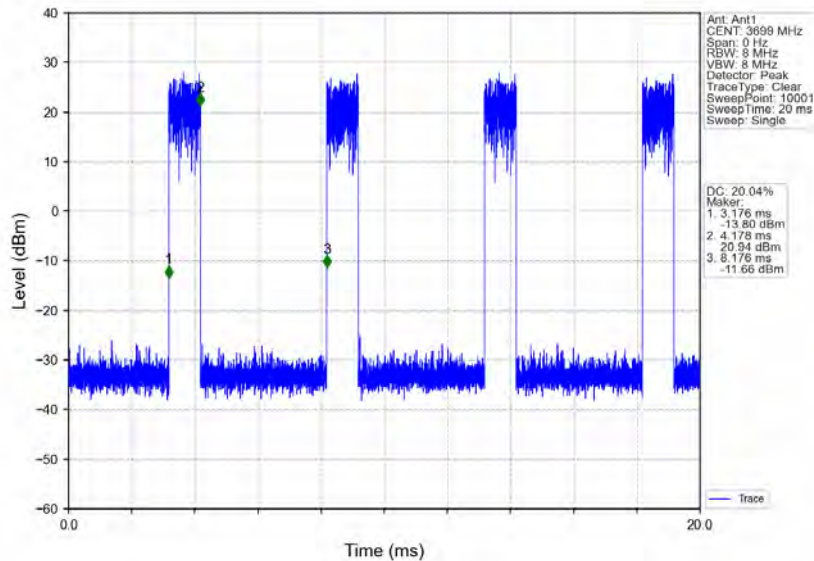
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n78d_30kHz_MIMO_NTNV_20MHz_CP-OFDM 256 QAM_3690MHz_Edge_1RB_Left



n78d_30kHz_MIMO_NTNV_20MHz_CP-OFDM 256 QAM_3690MHz_Edge_1RB_Right



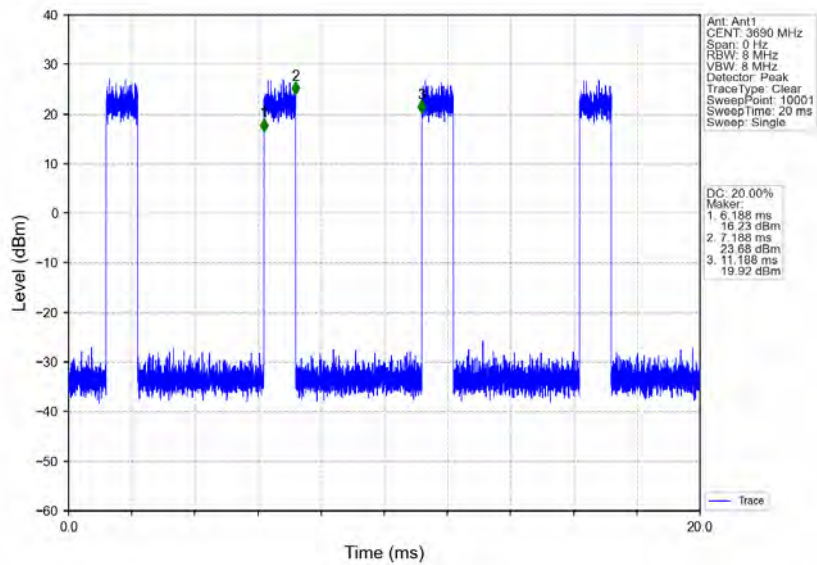
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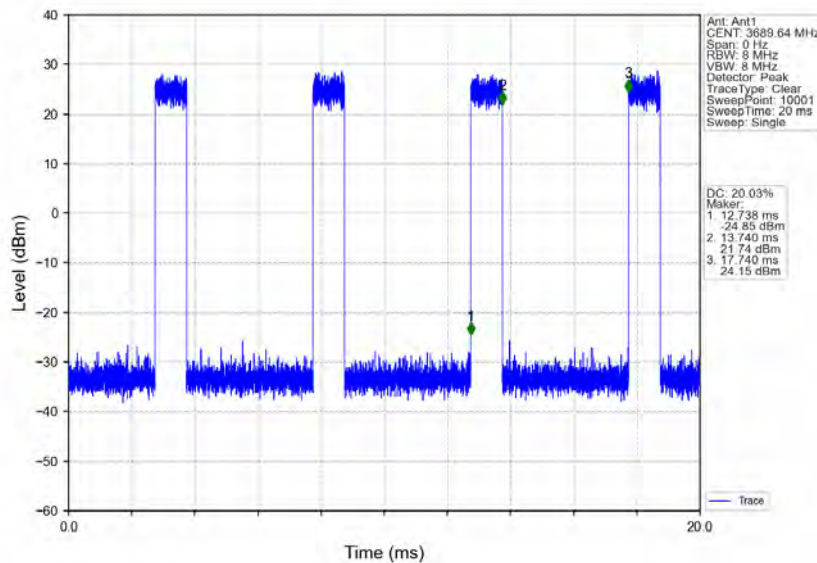
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n78d_30kHz_MIMO_NTNV_20MHz_CP-OFDM_256_QAM_3690MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_20MHz_CP-OFDM_256_QAM_3690MHz_Inner_Full



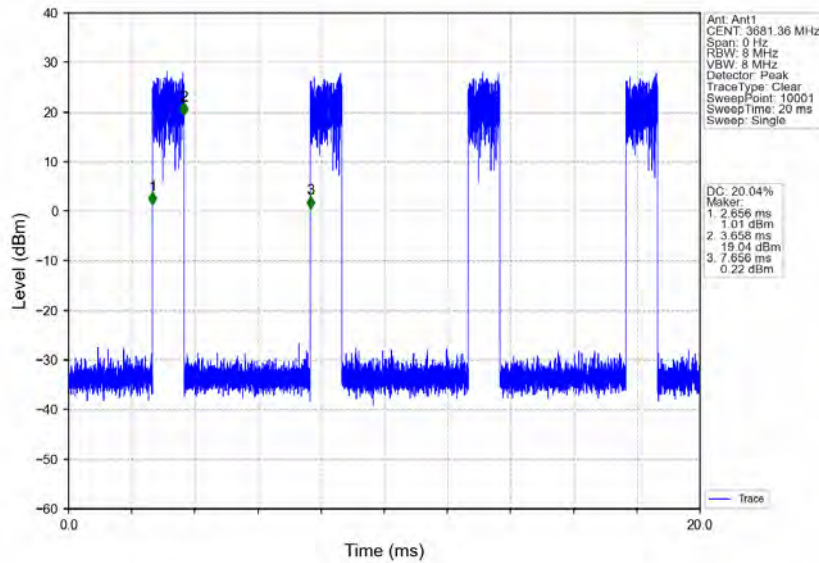
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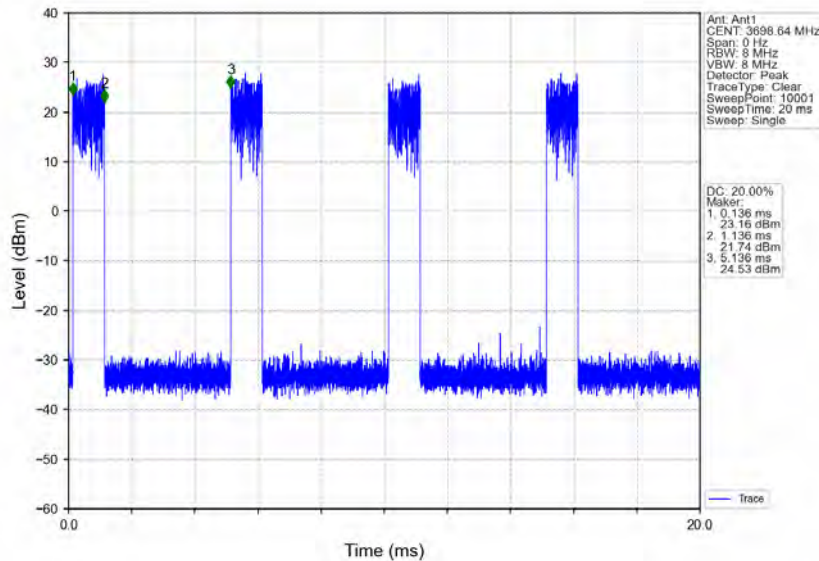
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n78d_30kHz_MIMO_NTNV_20MHz_CP-OFDM 256 QAM_3690MHz_Inner_1RB_Left



n78d_30kHz_MIMO_NTNV_20MHz_CP-OFDM 256 QAM_3690MHz_Inner_1RB_Right



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1.4 30k_MIMO_30MHz_NTNV

1.4.1 Test Result

5G NR n78d SCS=30kHz MIMO 30MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
CP-OFDM QPSK	3565.02	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	5.000	20.04	6.98	0.00
		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	1.002	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	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
	3684.99	Edge_1RB_Left	1.000	5.000	20.00	6.99	0.00
		Edge_1RB_Right	1.000	5.000	20.00	6.99	0.04
		Outer_Full	1.000	5.000	20.00	6.99	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	4.998	20.01	6.99	0.02	
CP-OFDM 16 QAM	3565.02	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	1.004	5.000	20.08	6.97	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	1.002	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	1.000	5.000	20.00	6.99	0.00
	3684.99	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	1.000	5.000	20.00	6.99	0.04
Inner_Full		1.002	5.000	20.04	6.98	0.00	
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	
CP-OFDM 64 QAM	3565.02	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	0.00
		Inner_Full	1.002	5.000	20.04	6.98	0.00
		Inner_1RB_Left	1.000	4.998	20.01	6.99	0.03
		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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		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		
	3684.99		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	1.000	4.998	20.01	6.99	0.03	
			Inner_Full	1.002	5.000	20.04	6.98	0.00	
	CP-OFDM 256 QAM	3565.02		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
				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
3624.99			Outer_Full	1.002	5.000	20.04	6.98	0.01	
			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	
3684.99			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	1.000	4.998	20.01	6.99	0.03	
			Inner_Full	1.000	4.998	20.01	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		
	Outer_Full	1.000	5.000	20.00	6.99	0.03			
	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	1.002	5.000	20.04	6.98	0.00			

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