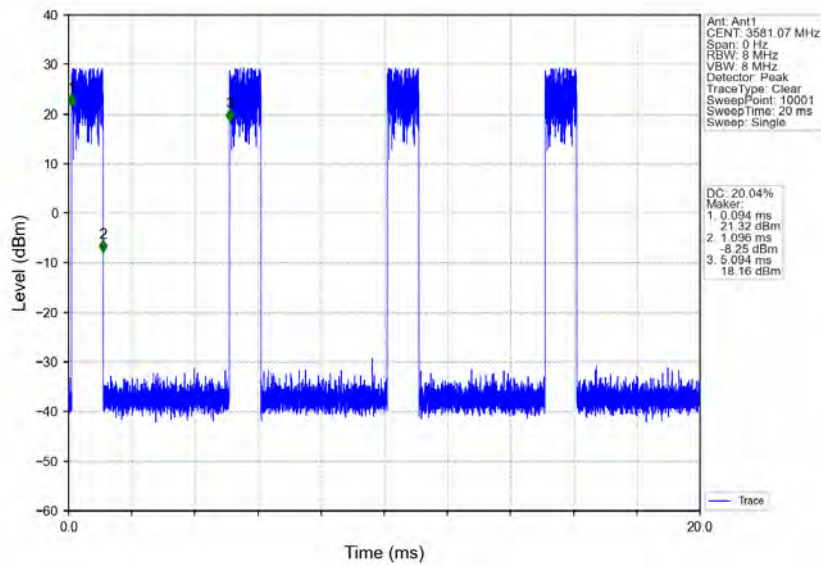
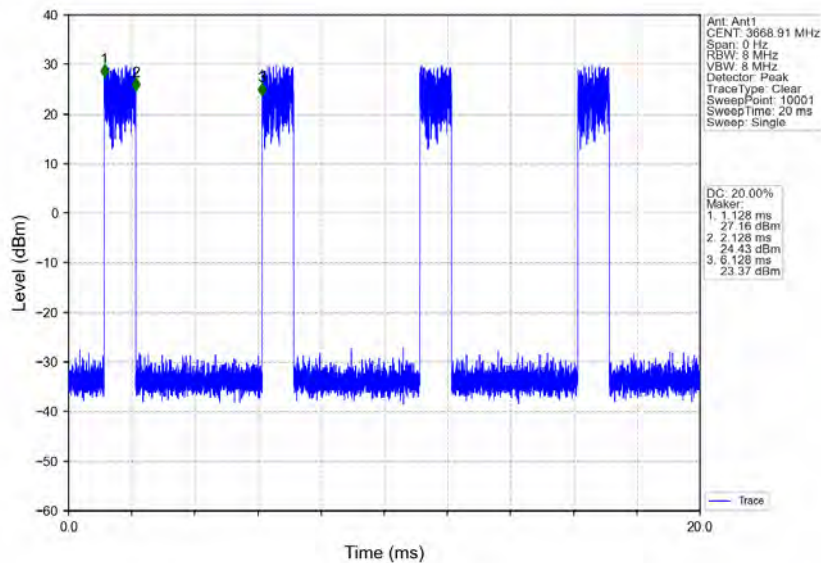


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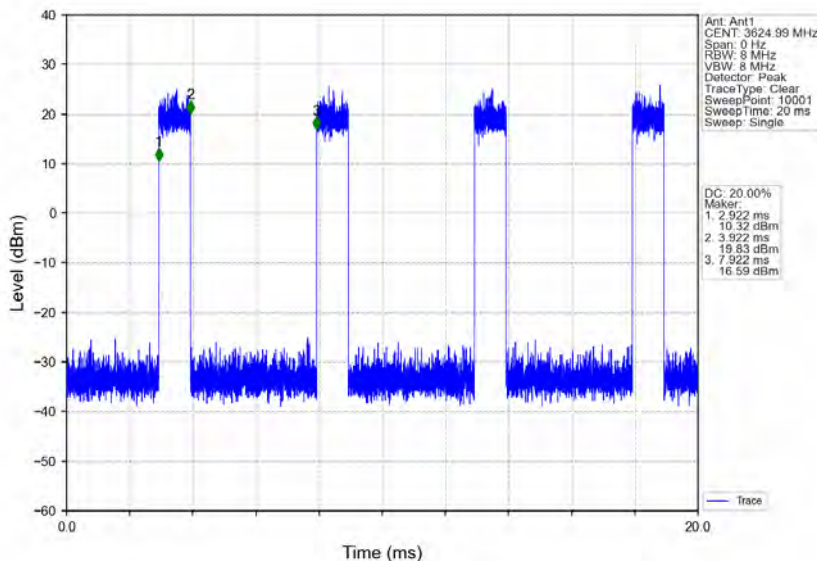
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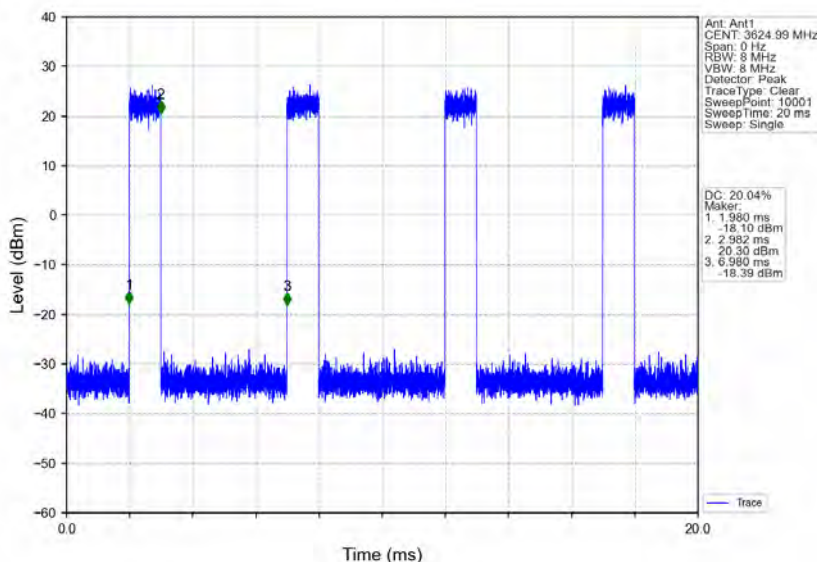
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n78d\_30kHz\_MIMO\_NTNV\_90MHz\_CP-OFDM\_16\_QAM\_3624.99MHz\_Outer\_Full



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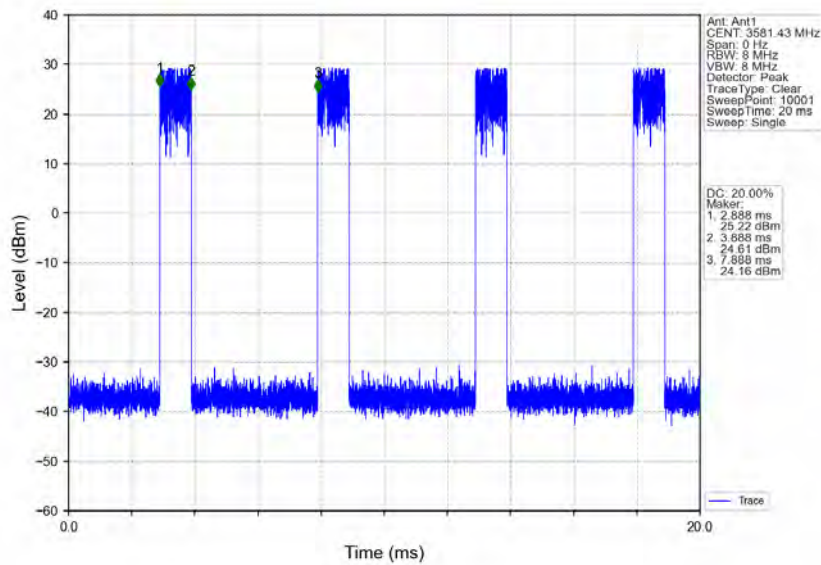
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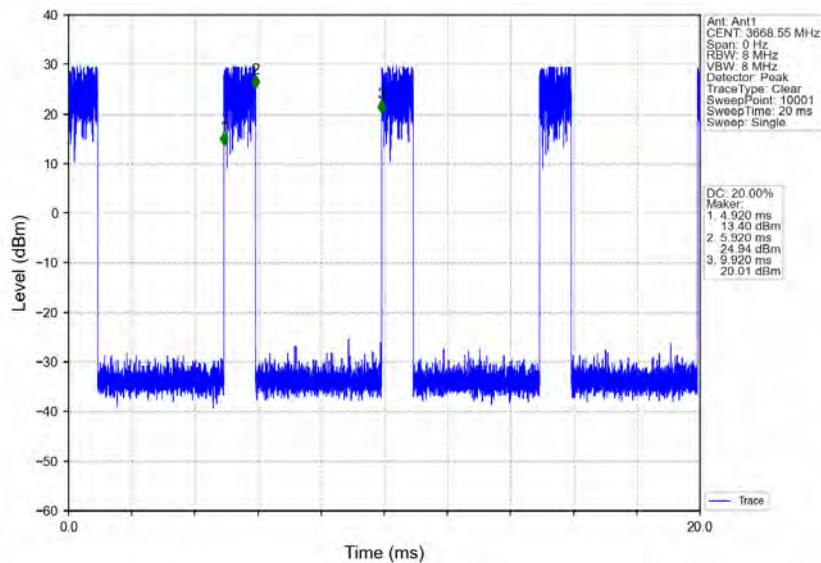
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n78d\_30kHz\_MIMO\_NTNV\_90MHz\_CP-OFDM 16 QAM\_3624.99MHz\_Inner\_1RB\_Left



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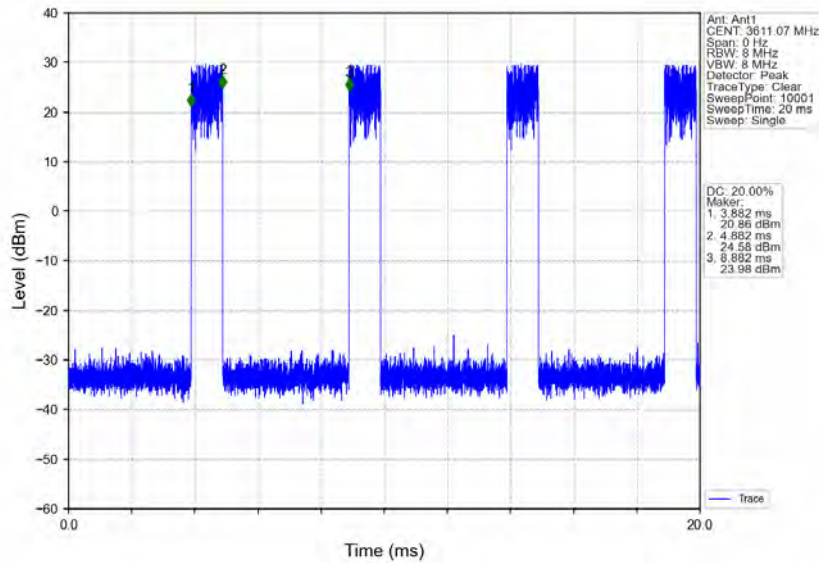
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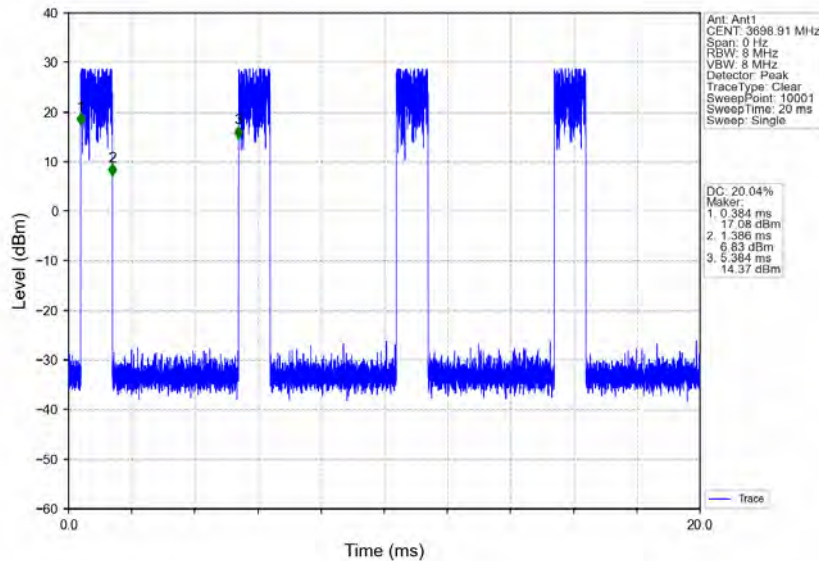
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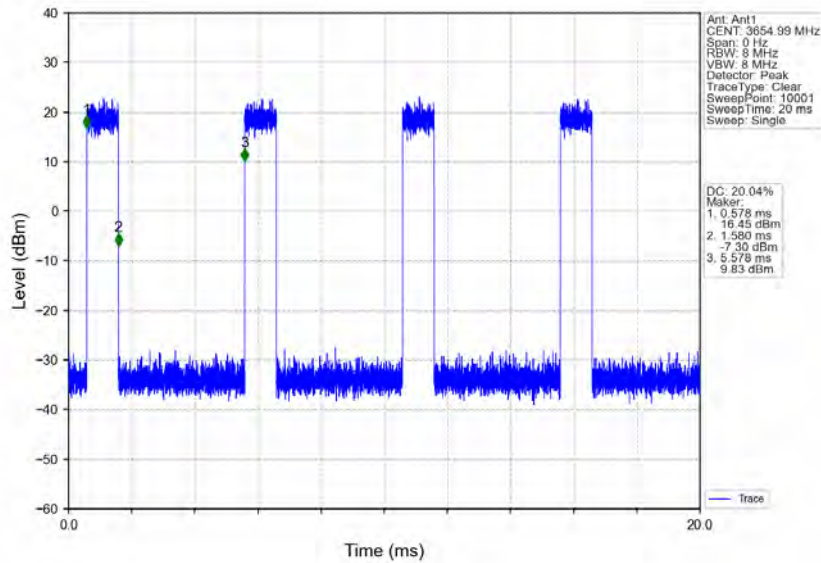
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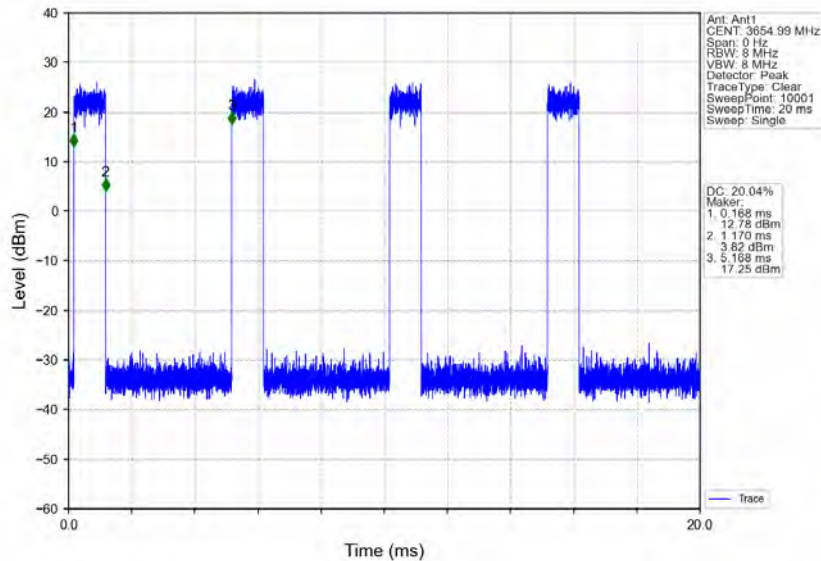
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n78d\_30kHz\_MIMO\_NTNV\_90MHz\_CP-OFDM\_16\_QAM\_3654.99MHz\_Outer\_Full



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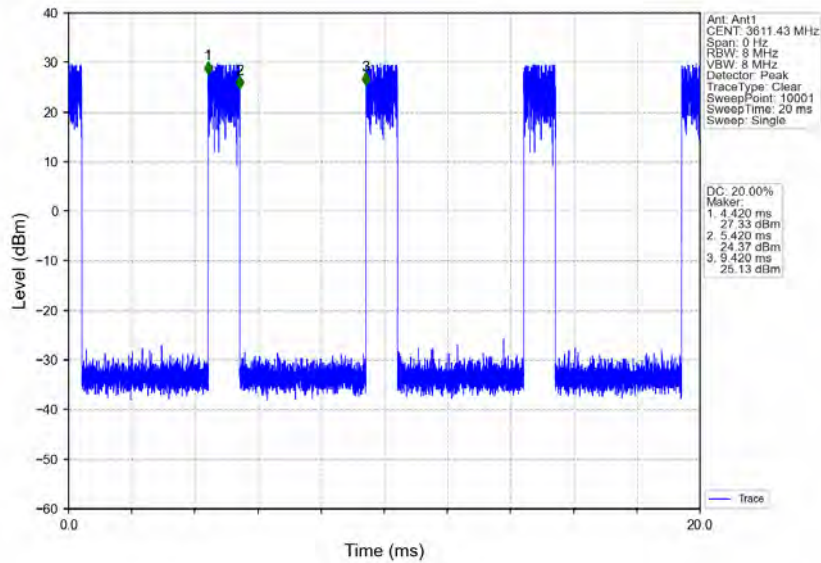
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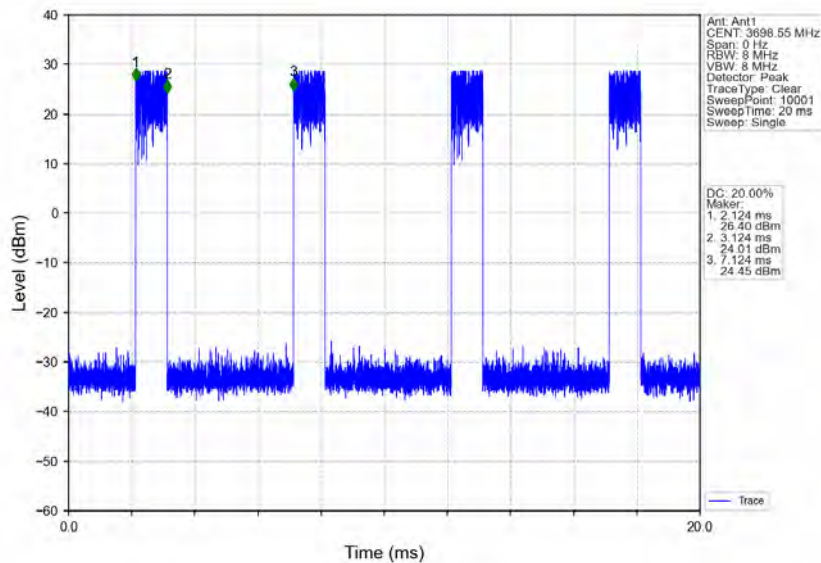
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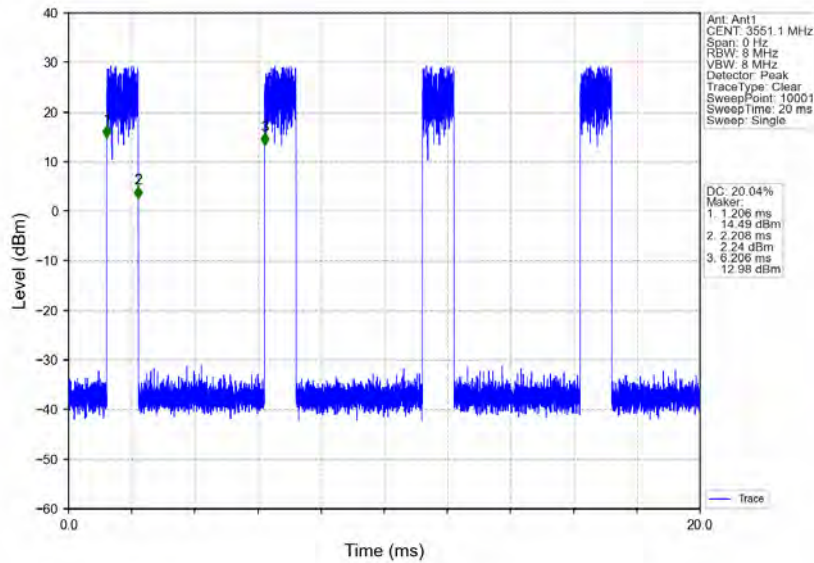
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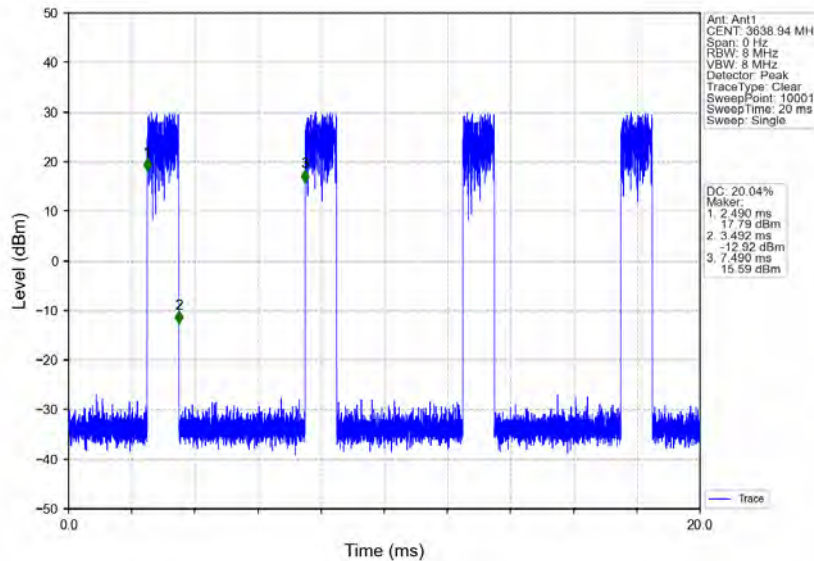
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n78d\_30kHz\_MIMO\_NTNV\_90MHz\_CP-OFDM 64 QAM\_3595.02MHz\_Edge\_1RB\_Left



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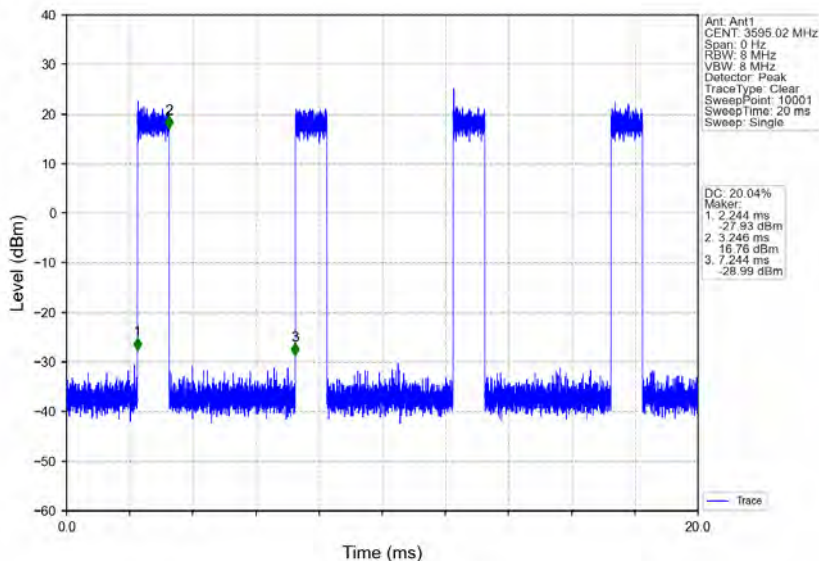
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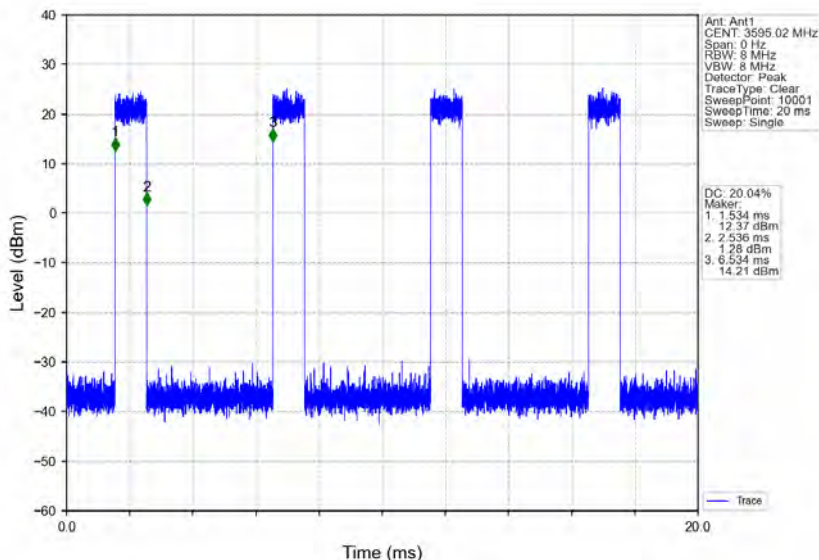
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n78d\_30kHz\_MIMO\_NTNV\_90MHz\_CP-OFDM 64 QAM\_3595.02MHz\_Outer\_Full



n78d\_30kHz\_MIMO\_NTNV\_90MHz\_CP-OFDM 64 QAM\_3595.02MHz\_Inner\_Full



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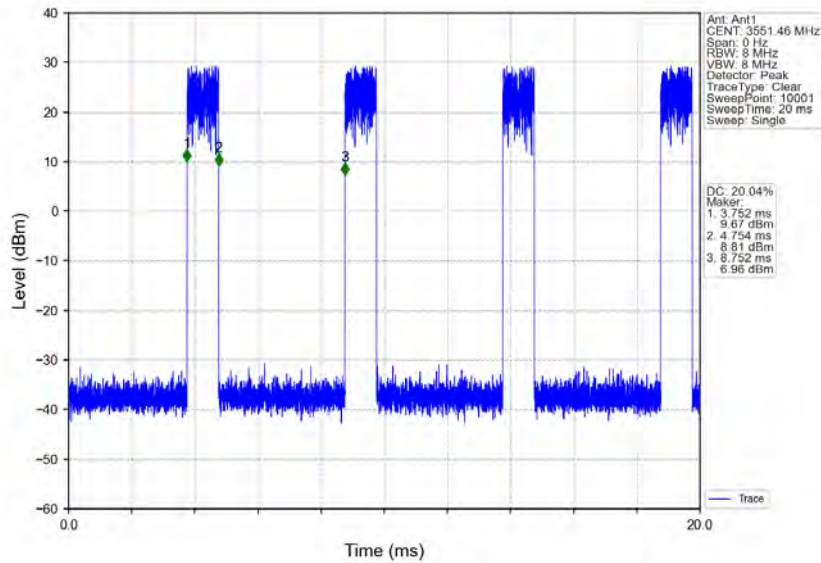
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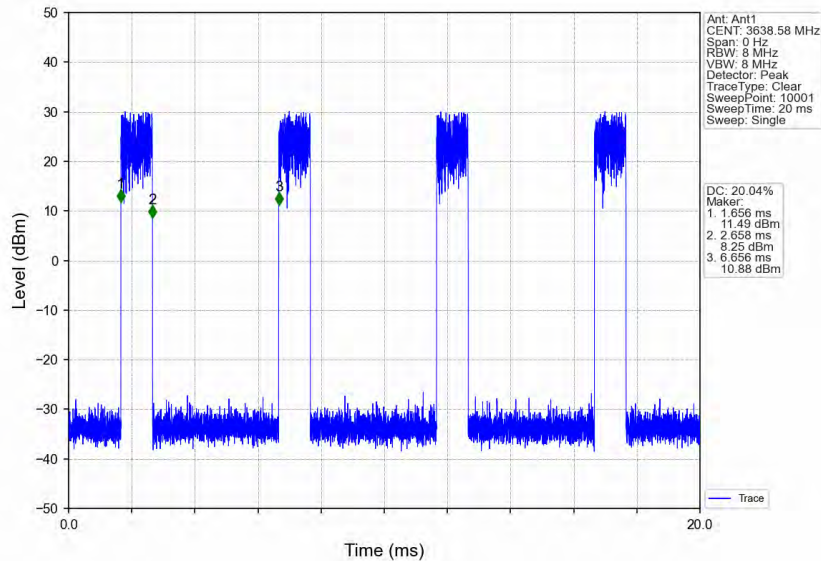
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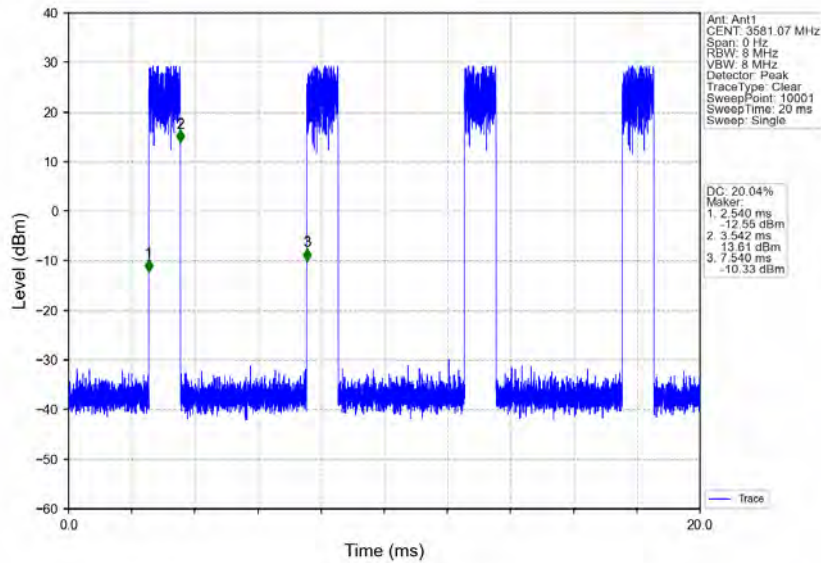
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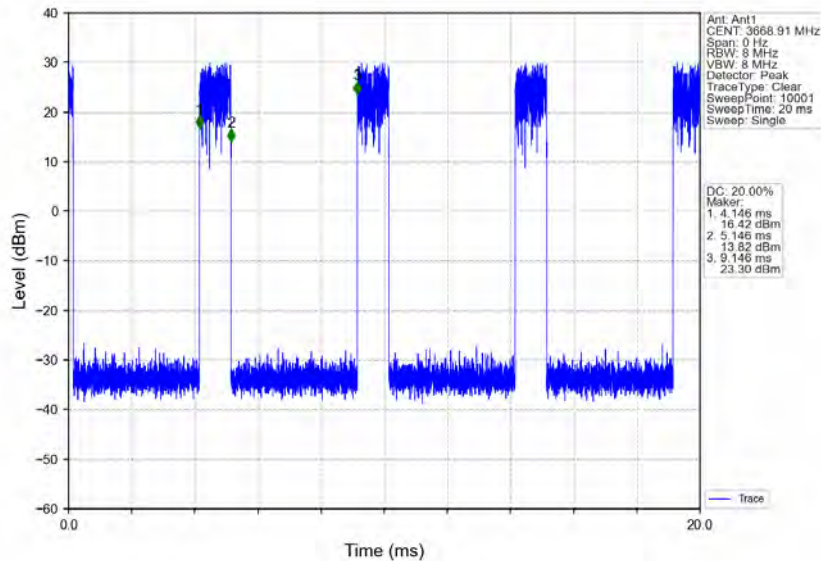
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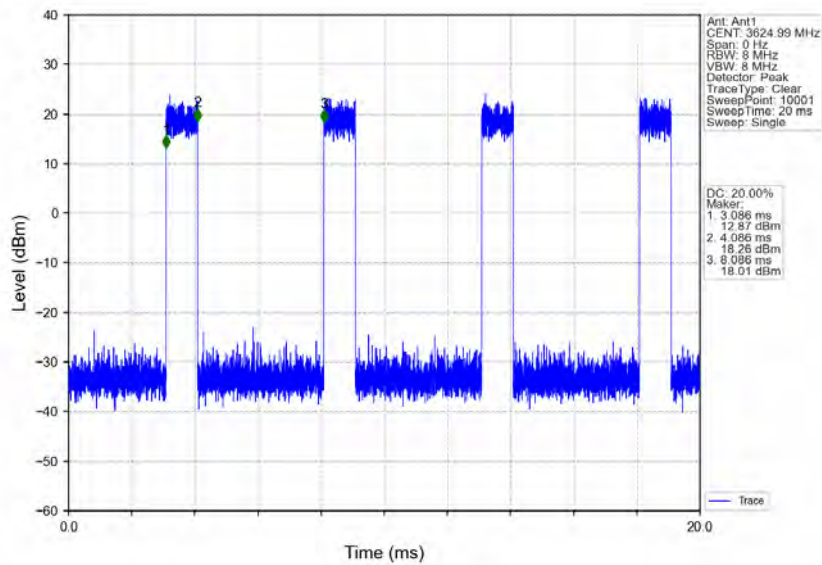
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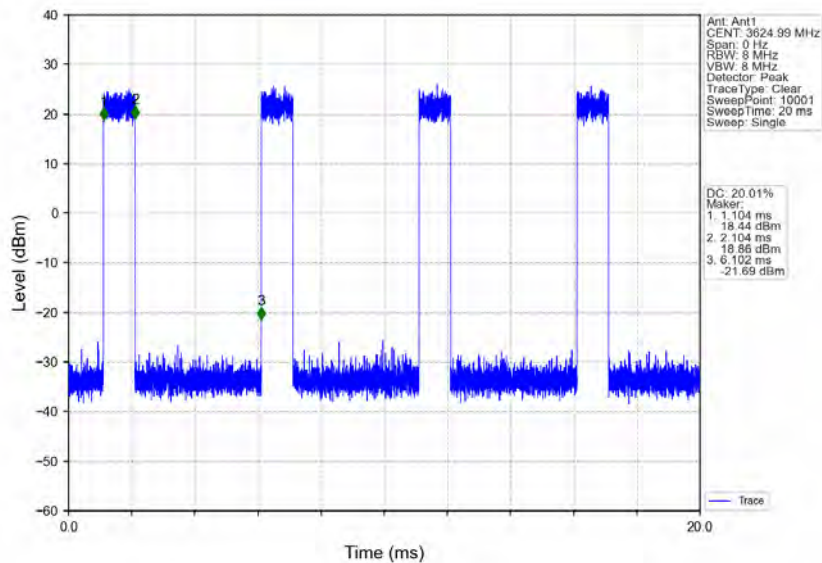
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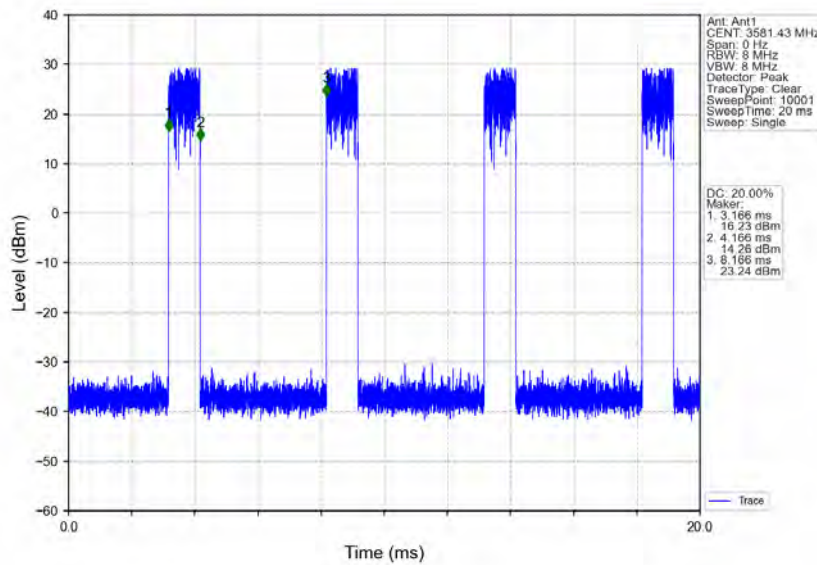
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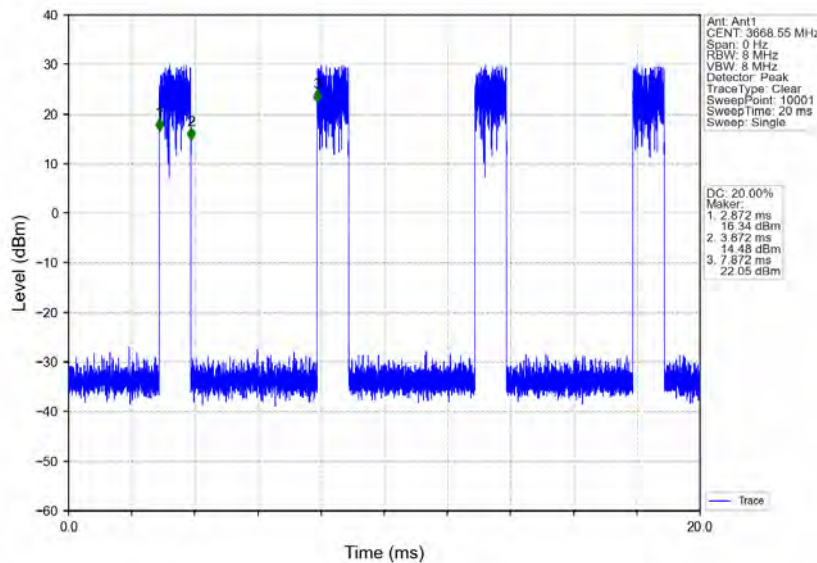
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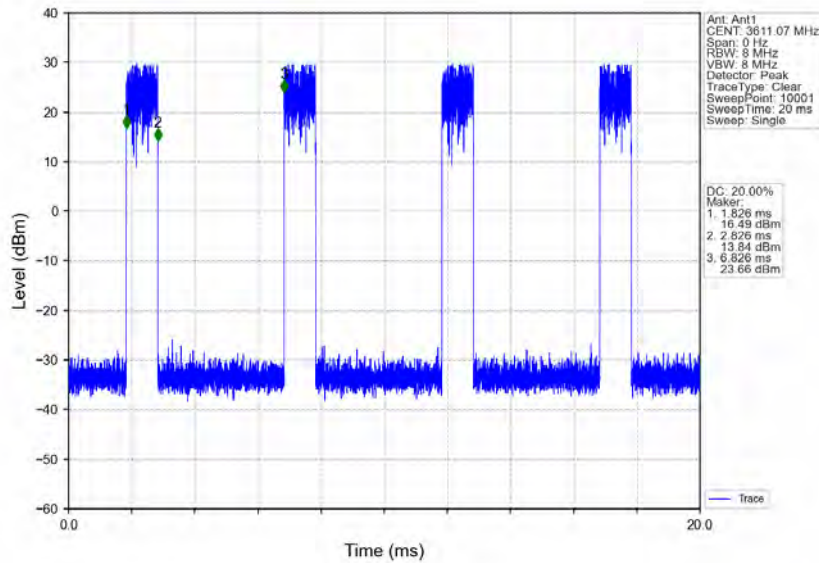
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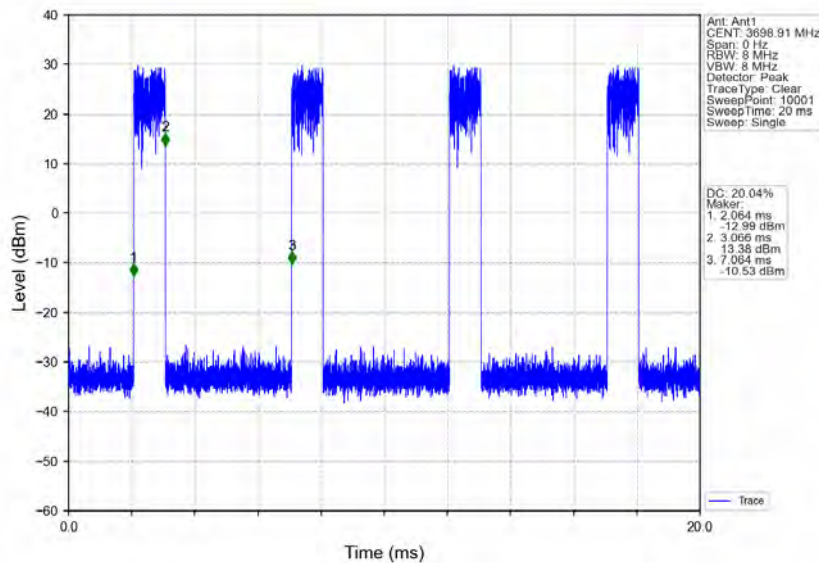
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n78d\_30kHz\_MIMO\_NTNV\_90MHz\_CP-OFDM 64 QAM\_3654.99MHz\_Edge\_1RB\_Left



n78d\_30kHz\_MIMO\_NTNV\_90MHz\_CP-OFDM 64 QAM\_3654.99MHz\_Edge\_1RB\_Right



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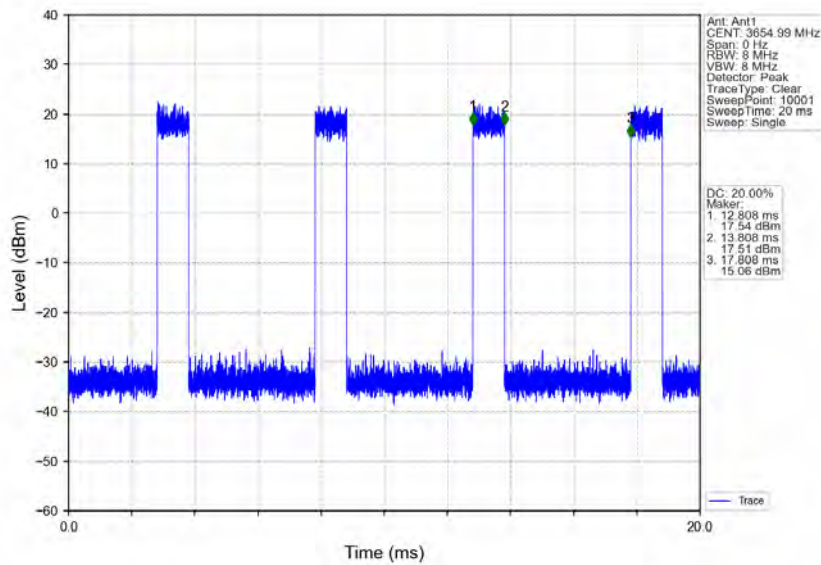
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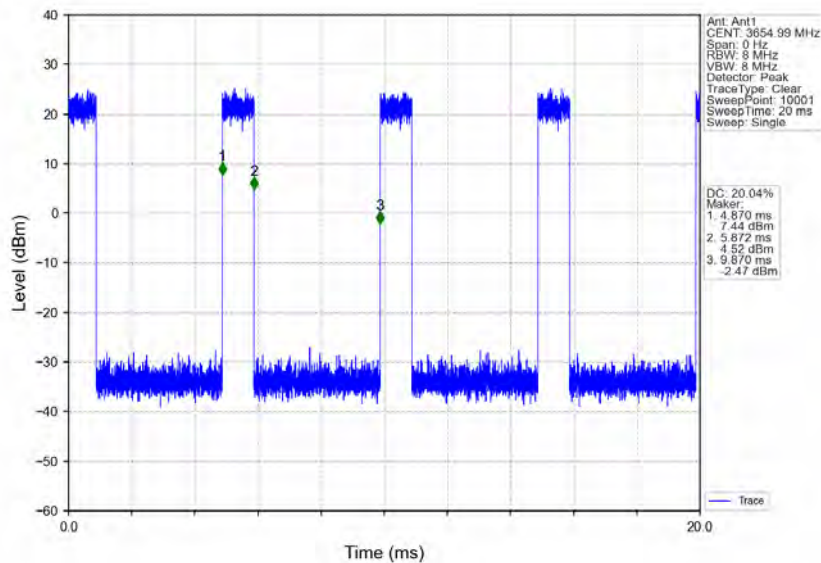
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n78d\_30kHz\_MIMO\_NTNV\_90MHz\_CP-OFDM 64 QAM\_3654.99MHz\_Outer\_Full



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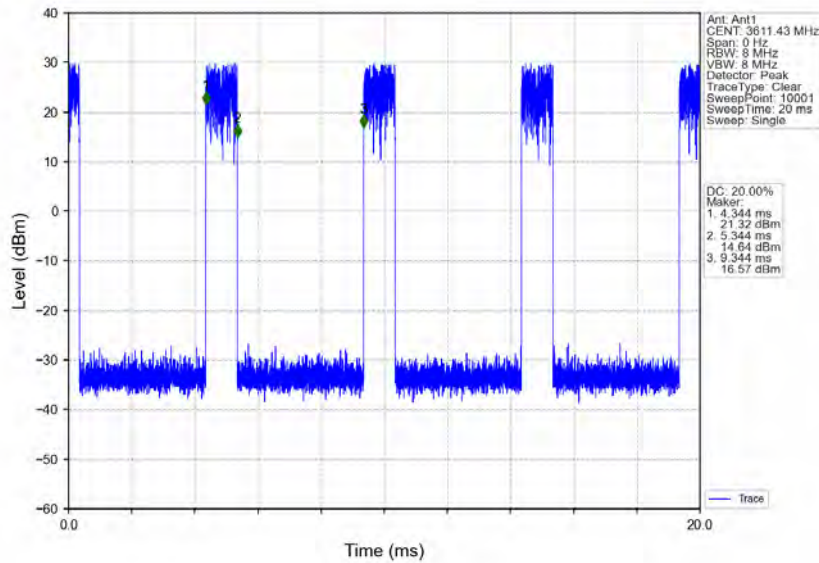
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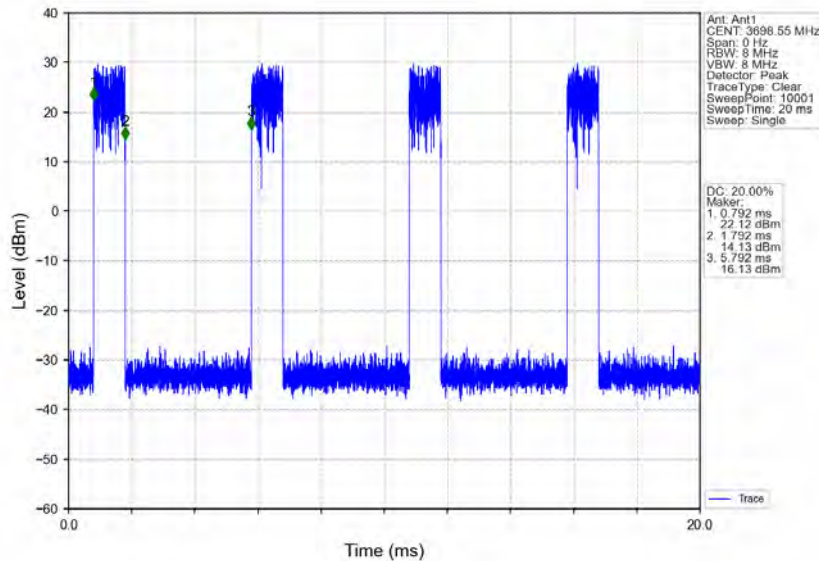
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n78d\_30kHz\_MIMO\_NTNV\_90MHz\_CP-OFDM 64 QAM\_3654.99MHz\_Inner\_1RB\_Left



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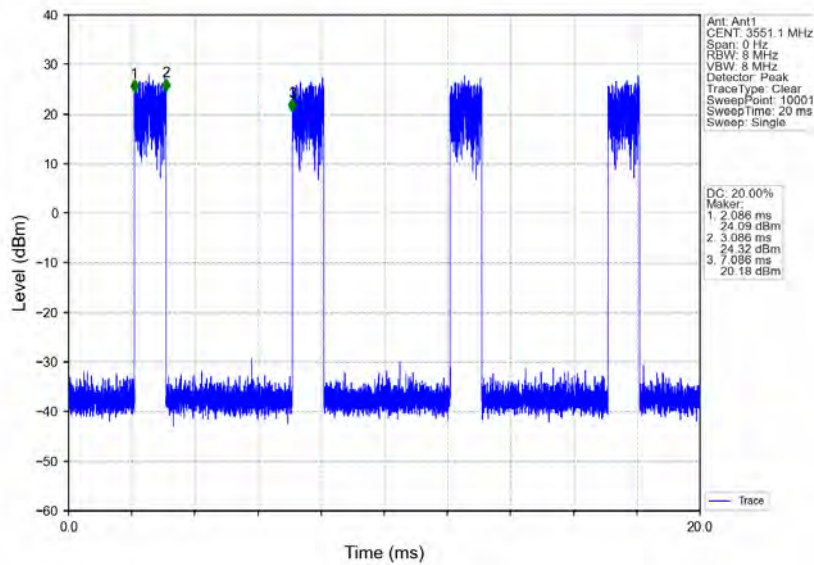
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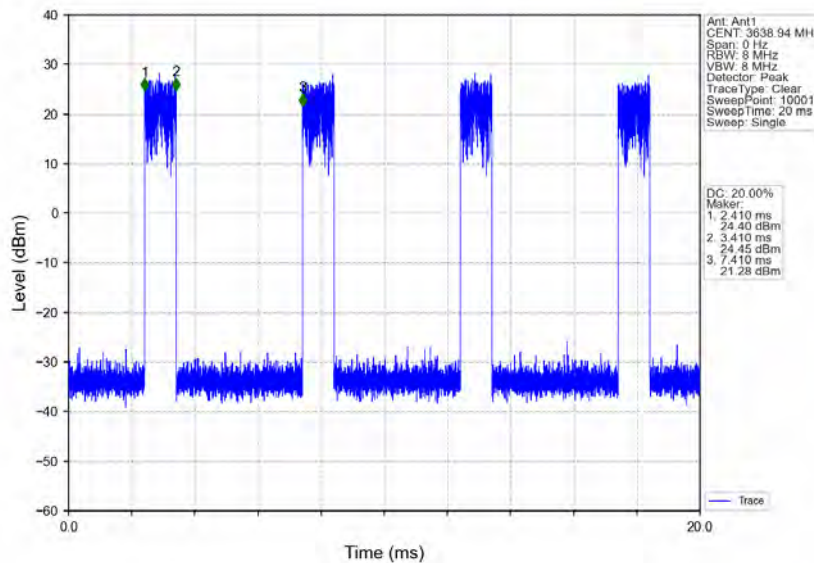
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n78d\_30kHz\_MIMO\_NTNV\_90MHz\_CP-OFDM 256 QAM\_3595.02MHz\_Edge\_1RB\_Left



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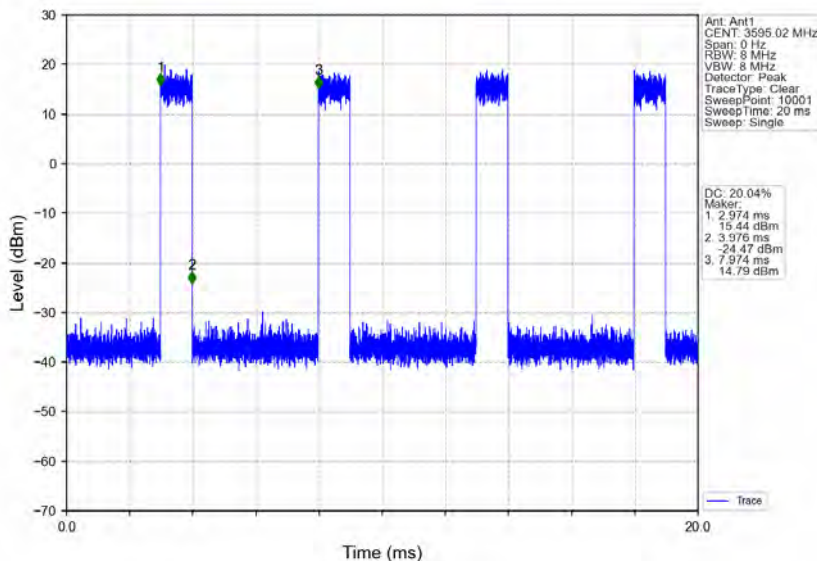
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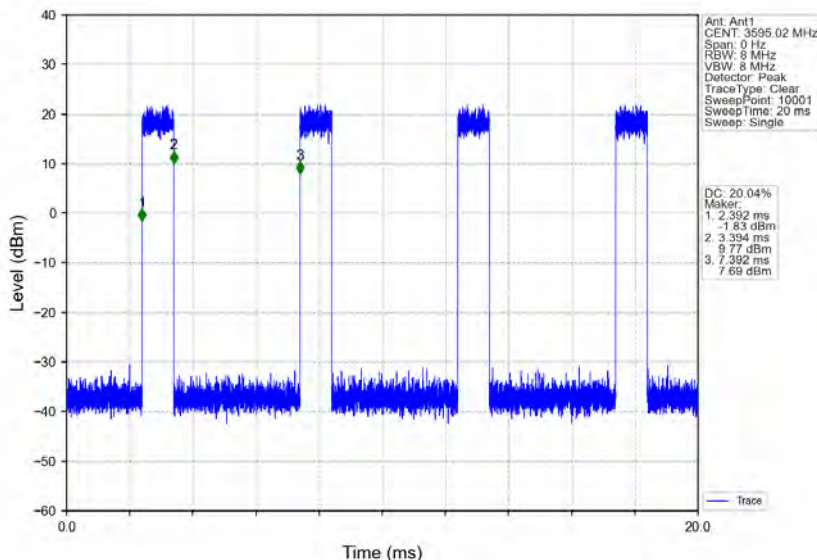
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n78d\_30kHz\_MIMO\_NTNV\_90MHz\_CP-OFDM 256 QAM\_3595.02MHz\_Outer\_Full



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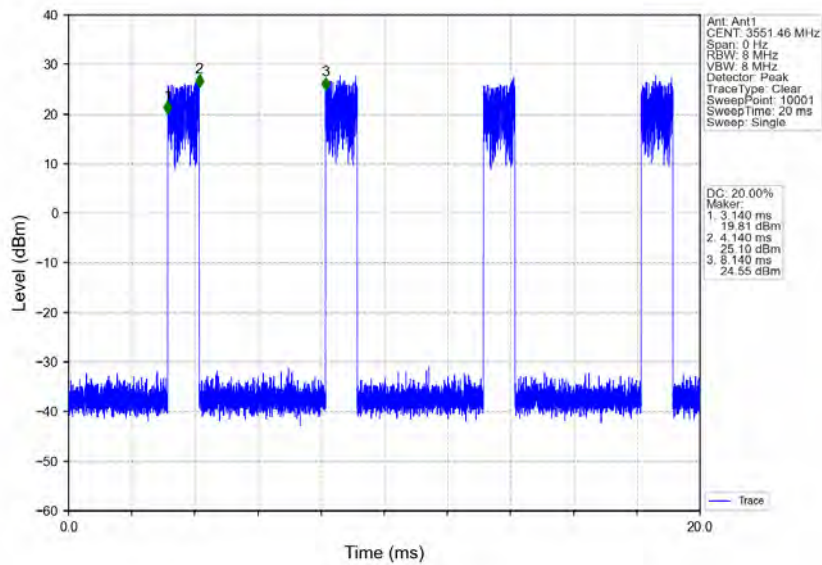
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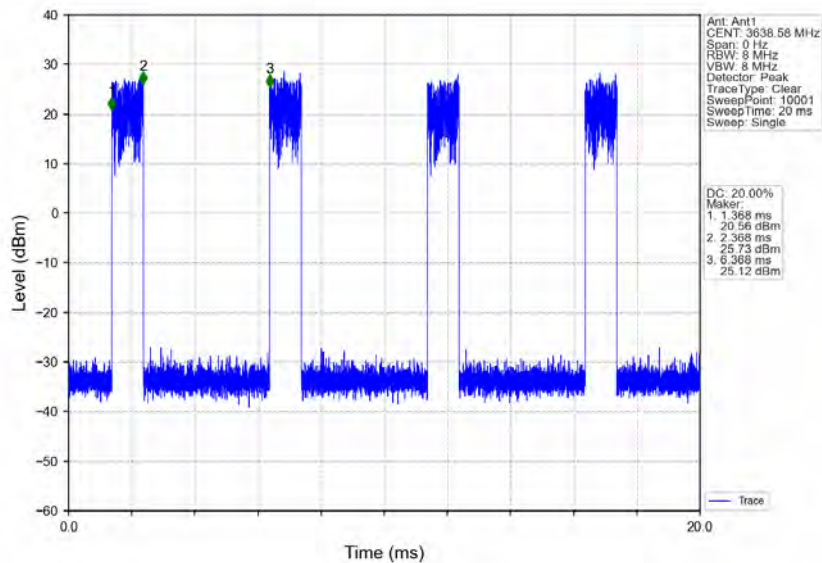
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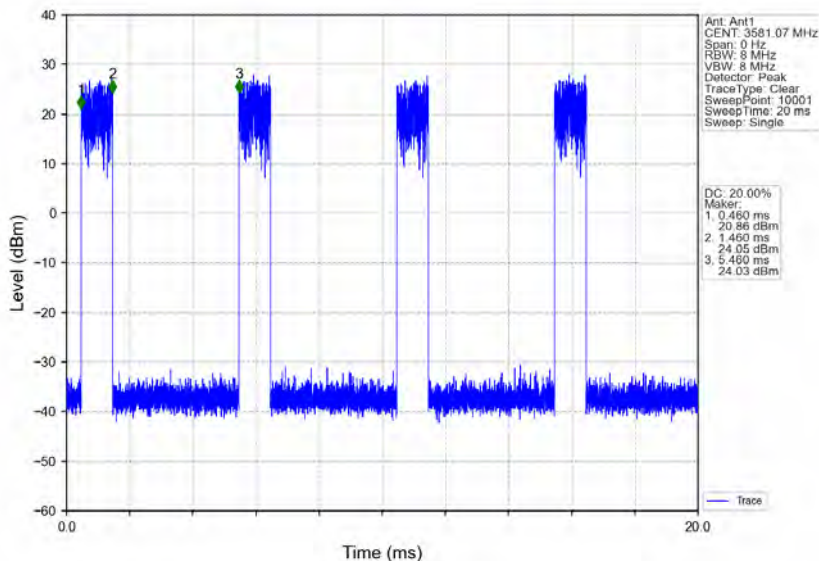
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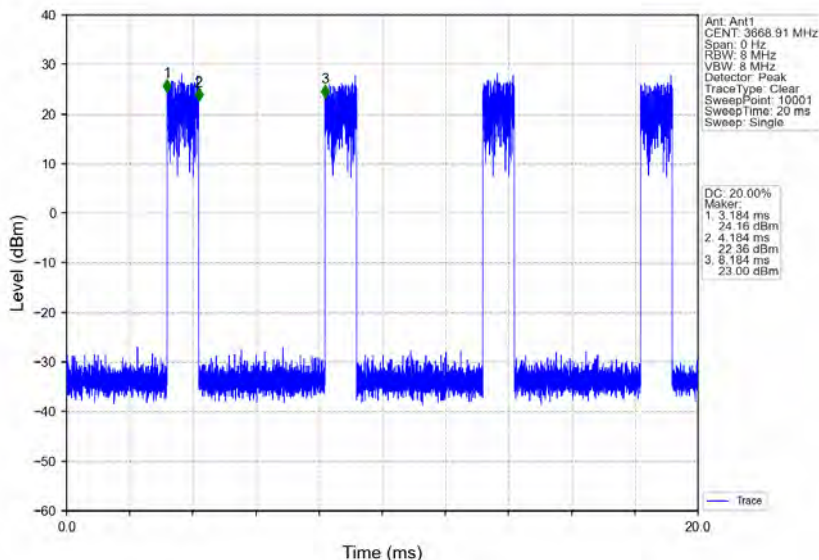
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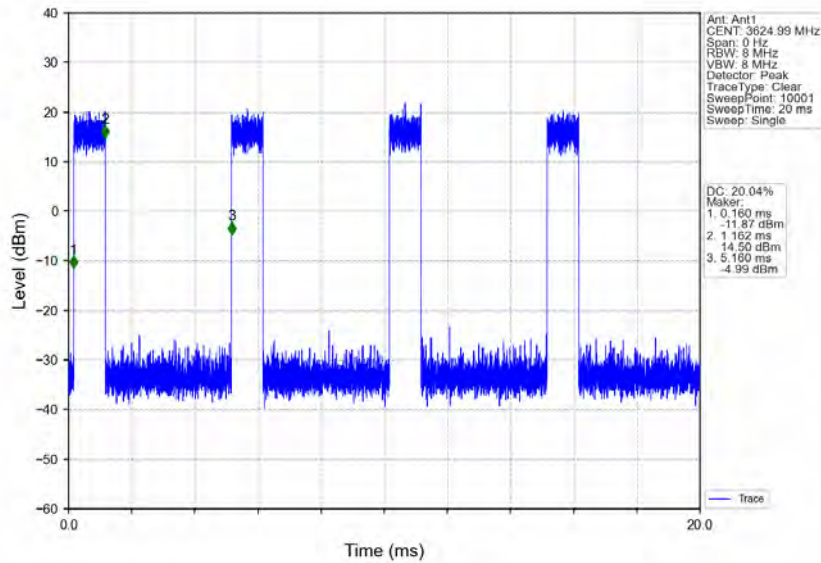
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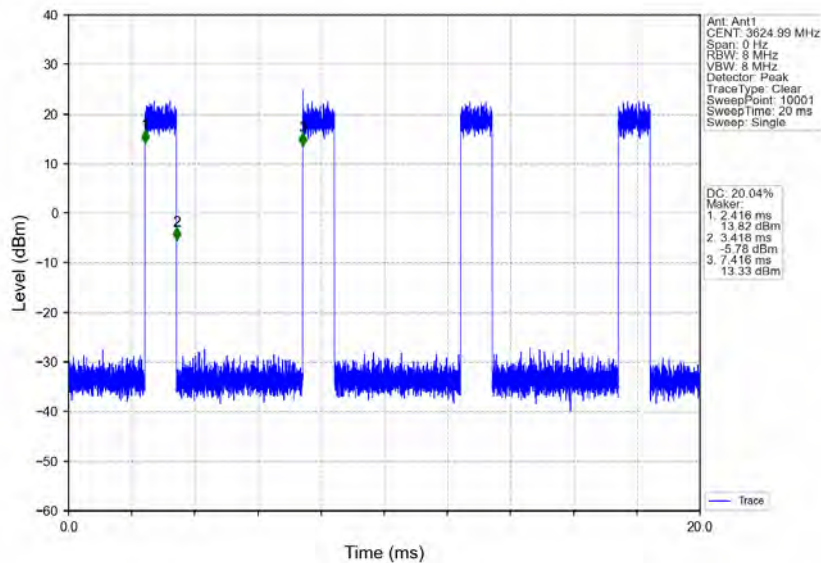
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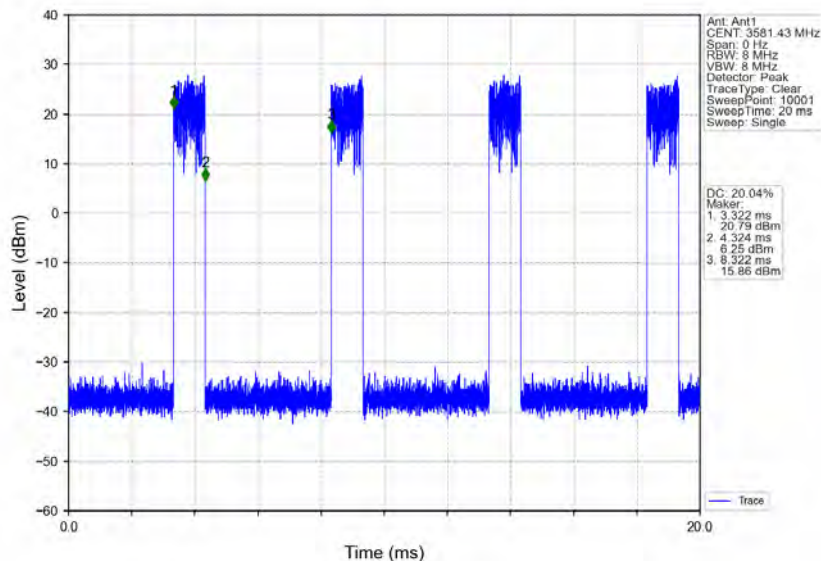
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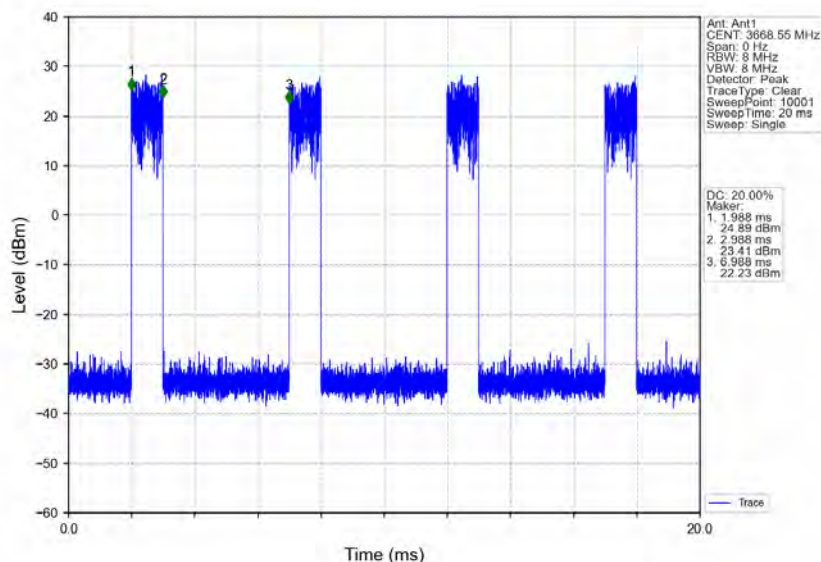
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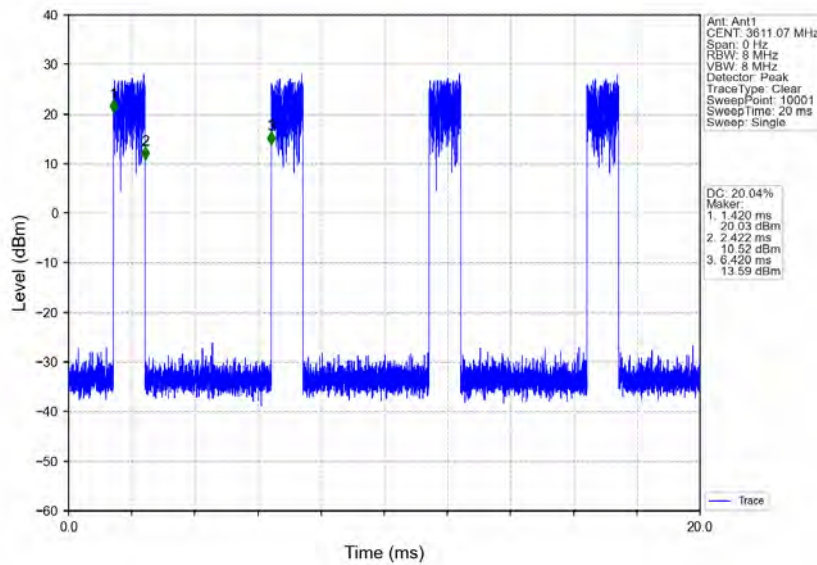


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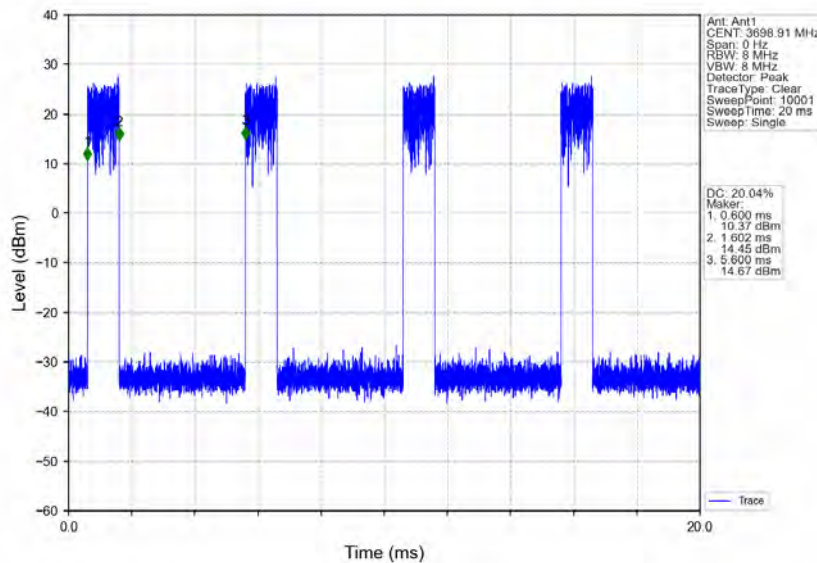
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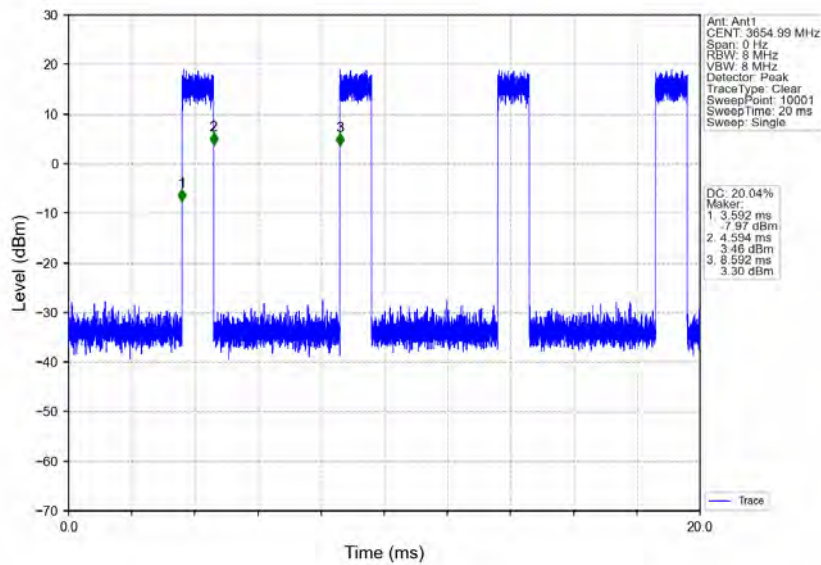
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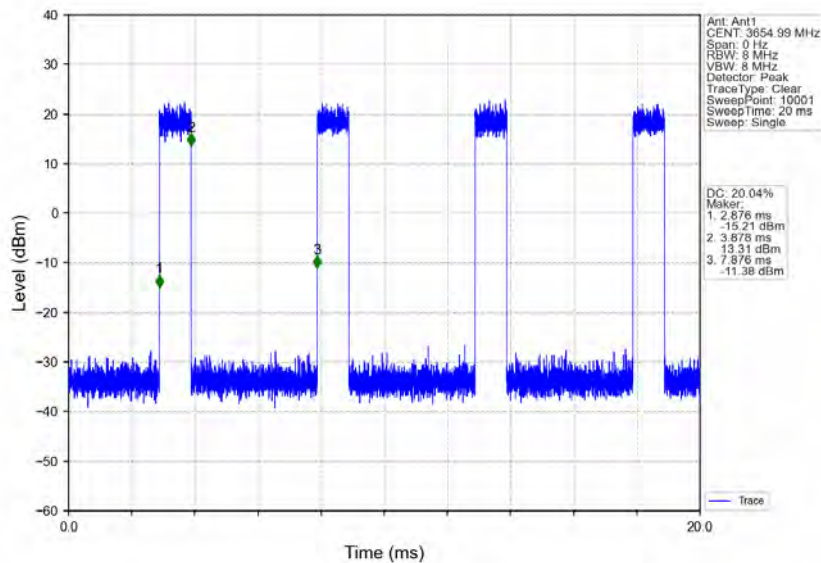
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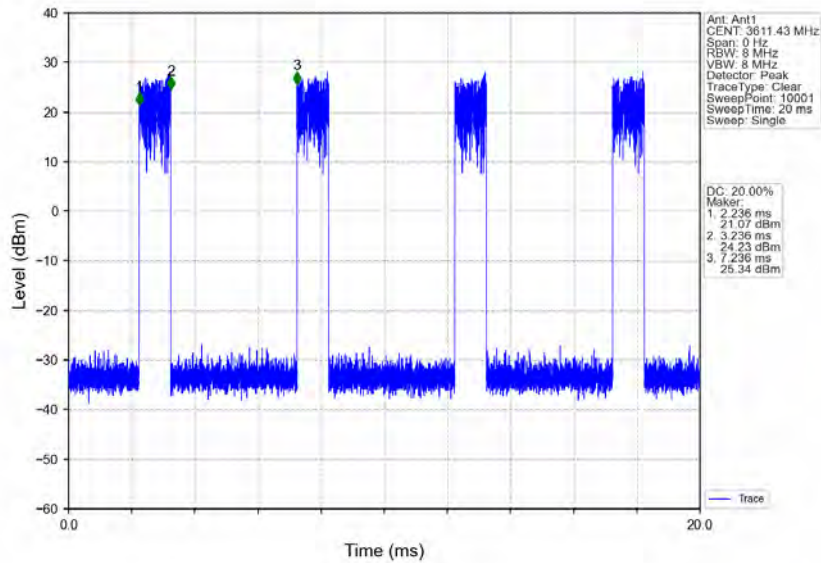
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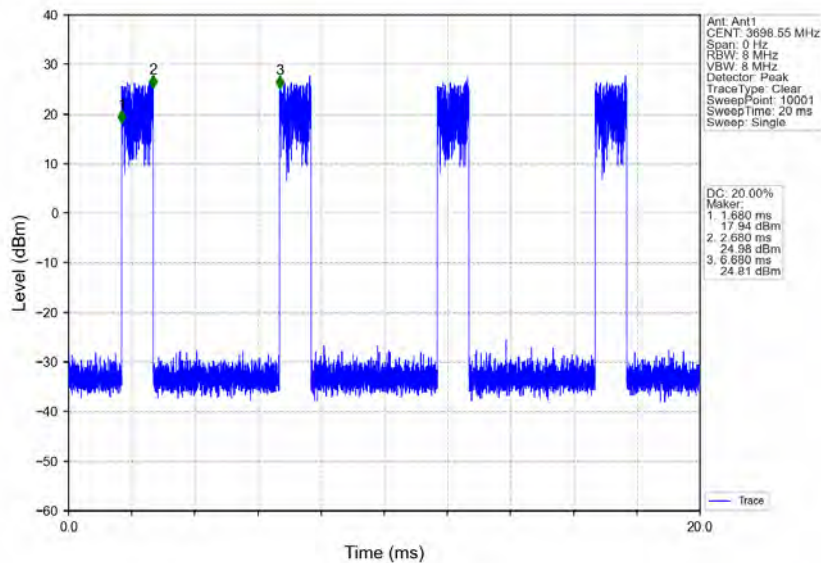
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n78d\_30kHz\_MIMO\_NTNV\_90MHz\_CP-OFDM 256 QAM\_3654.99MHz\_Inner\_1RB\_Left



n78d\_30kHz\_MIMO\_NTNV\_90MHz\_CP-OFDM 256 QAM\_3654.99MHz\_Inner\_1RB\_Right



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1.11 30k\_MIMO\_100MHz\_NTNV

1.11.1 Test Result

5G NR n78d SCS=30kHz MIMO 100MHz NTV							
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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		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		
			1.000	5.000	20.00	6.99	0.00		
		Outer_Full	1.000	4.998	20.01	6.99	0.02		
			1.000	5.000	20.00	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	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		
	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		
3649.98	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	0.03			
		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			

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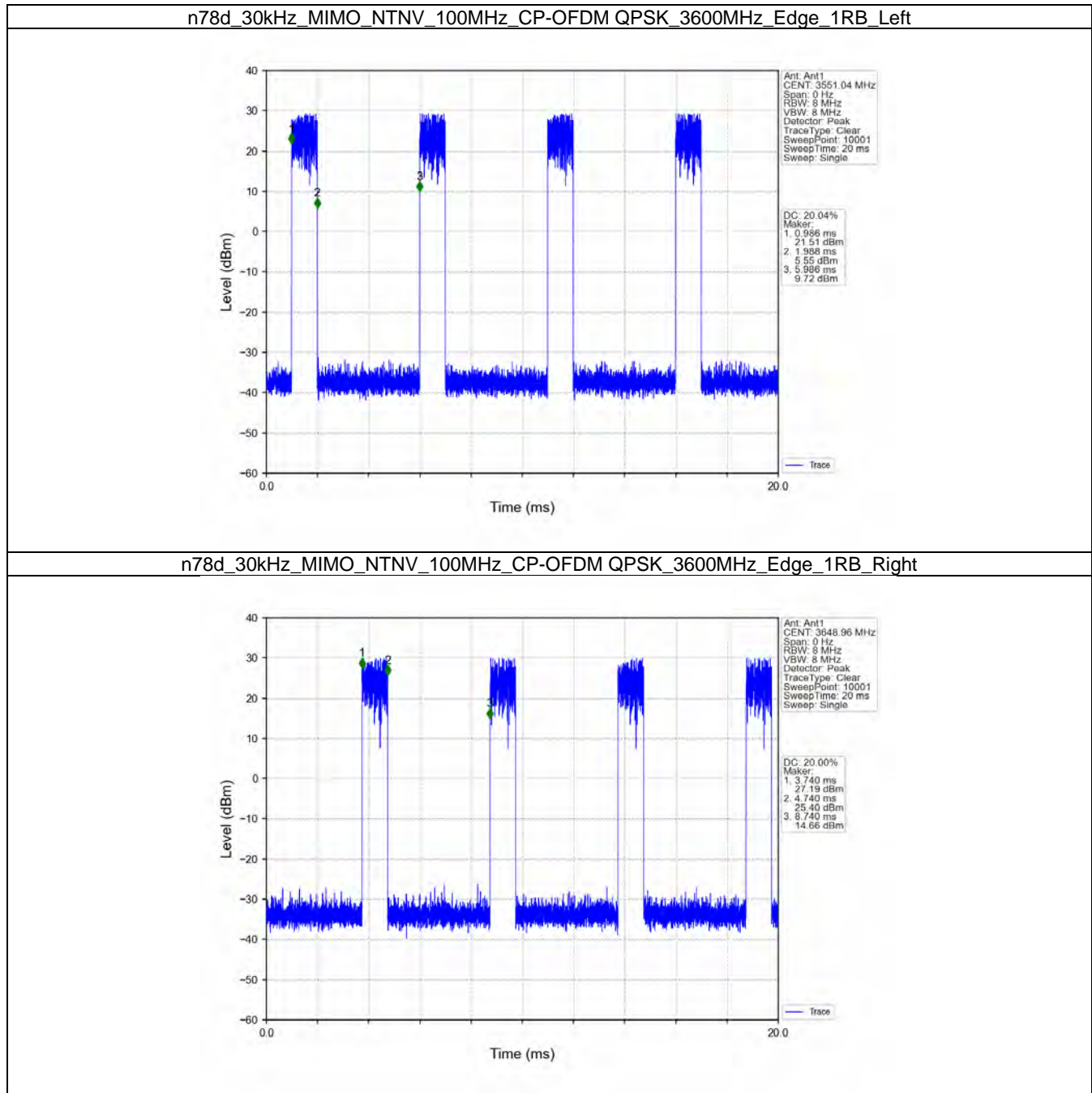
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## 1.11.2 Test Graph



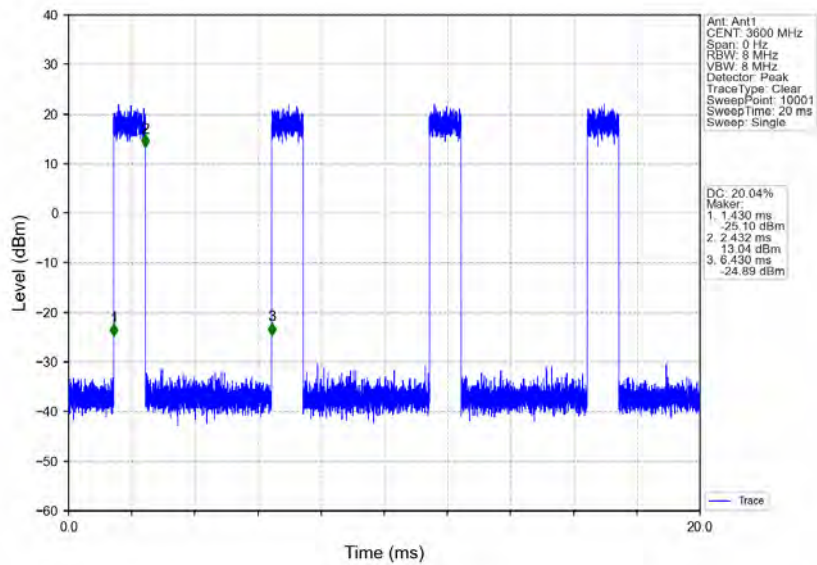
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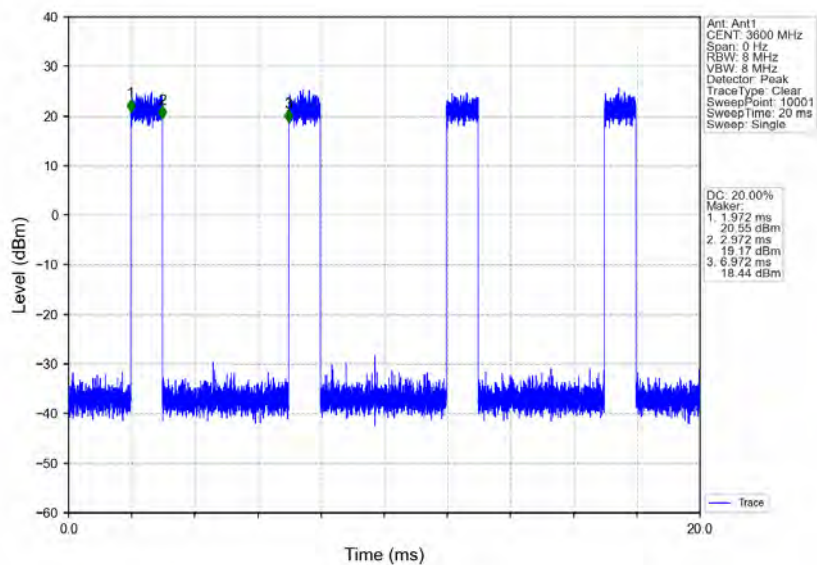
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n78d\_30kHz\_MIMO\_NTNV\_100MHz\_CP-OFDM QPSK\_3600MHz\_Outer\_Full



n78d\_30kHz\_MIMO\_NTNV\_100MHz\_CP-OFDM QPSK\_3600MHz\_Inner\_Full



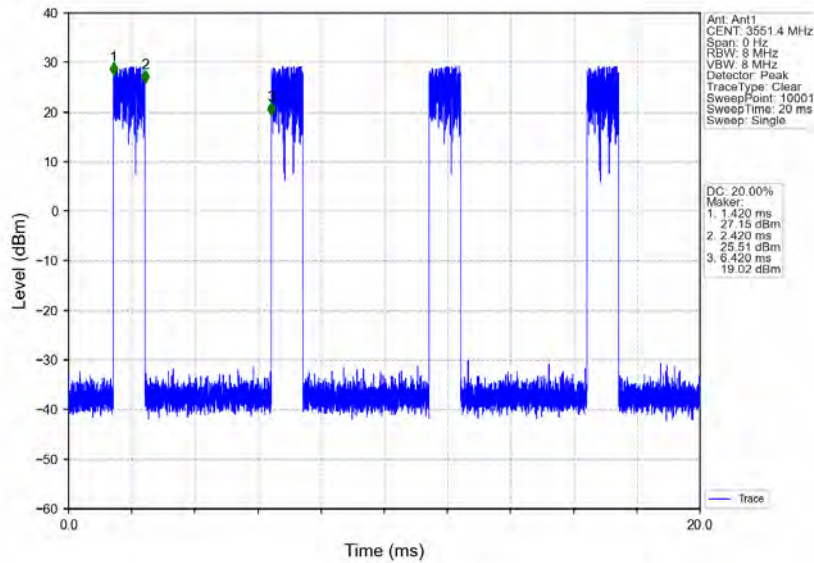
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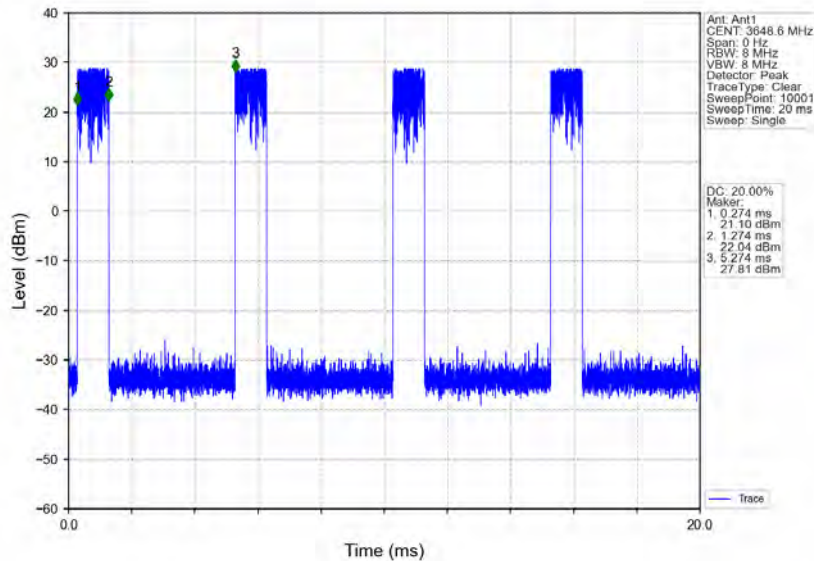
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n78d\_30kHz\_MIMO\_NTNV\_100MHz\_CP-OFDM QPSK\_3600MHz\_Inner\_1RB\_Right



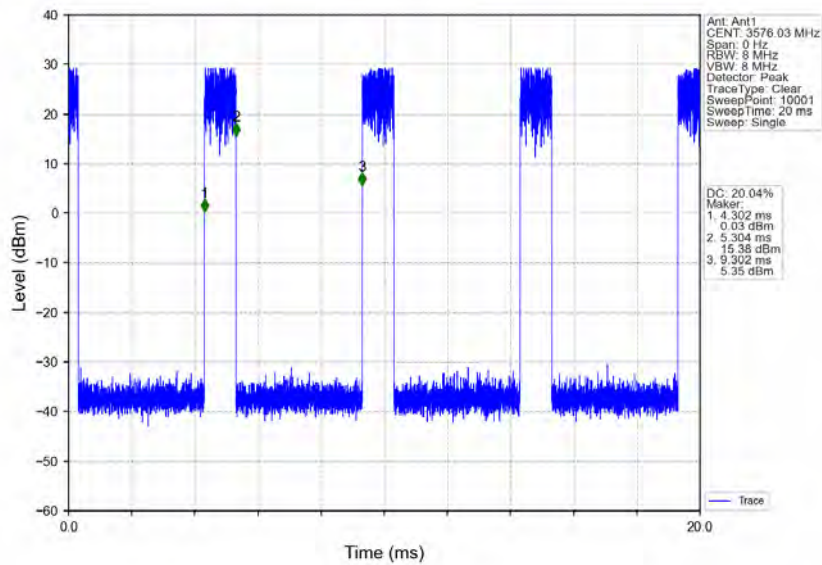
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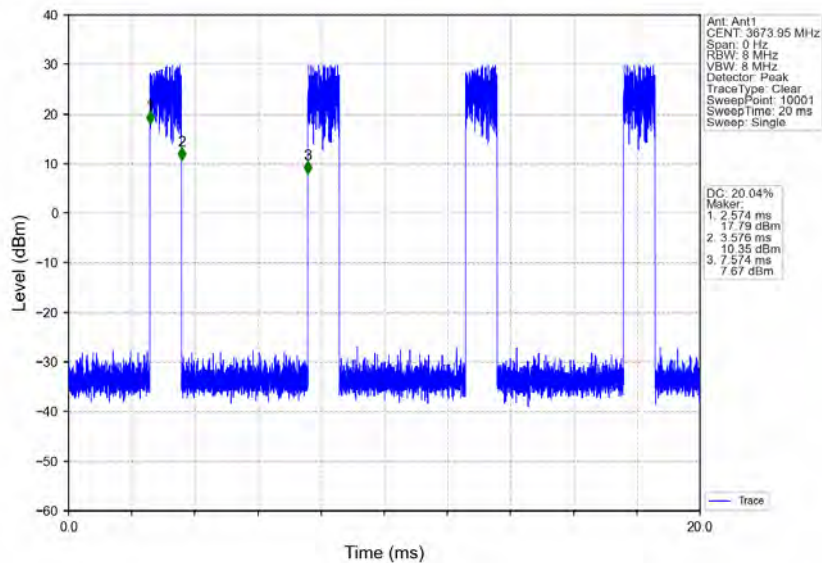
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n78d\_30kHz\_MIMO\_NTNV\_100MHz\_CP-OFDM QPSK\_3624.99MHz\_Edge\_1RB\_Right



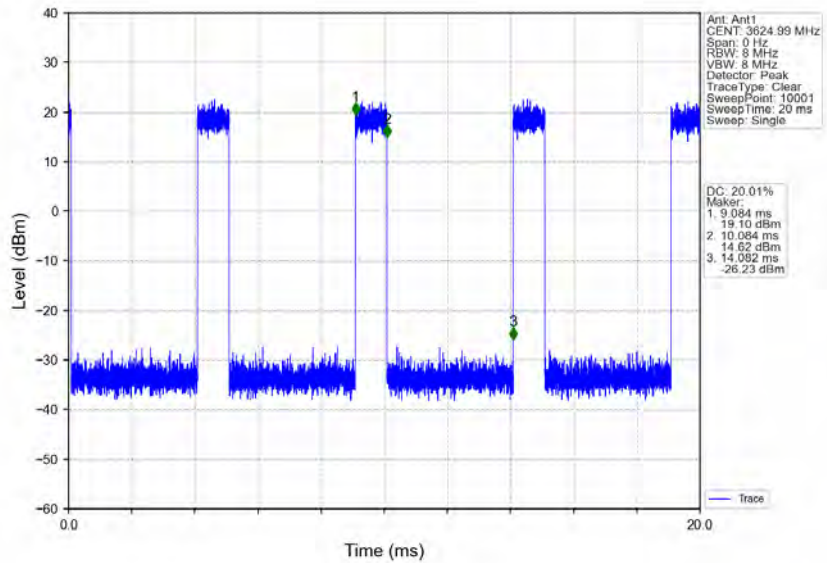
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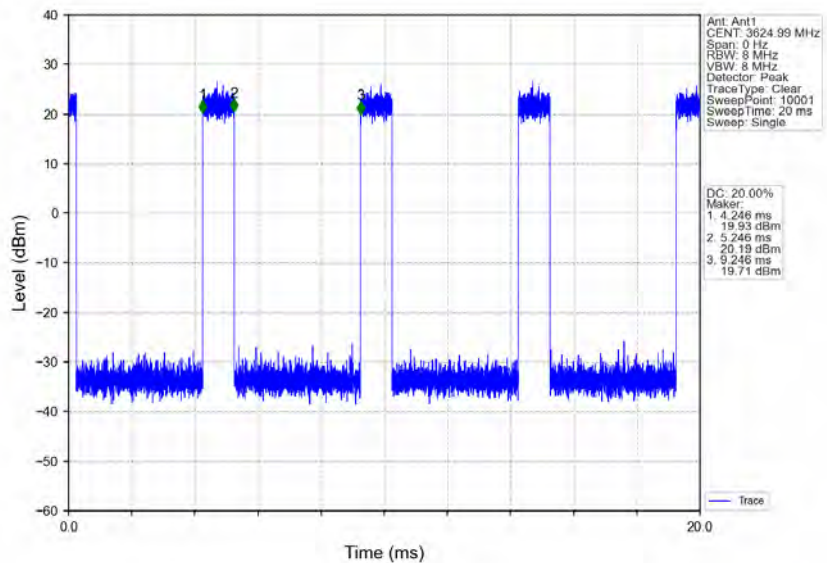
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n78d\_30kHz\_MIMO\_NTNV\_100MHz\_CP-OFDM\_QPSK\_3624.99MHz\_Outer\_Full



n78d\_30kHz\_MIMO\_NTNV\_100MHz\_CP-OFDM\_QPSK\_3624.99MHz\_Inner\_Full



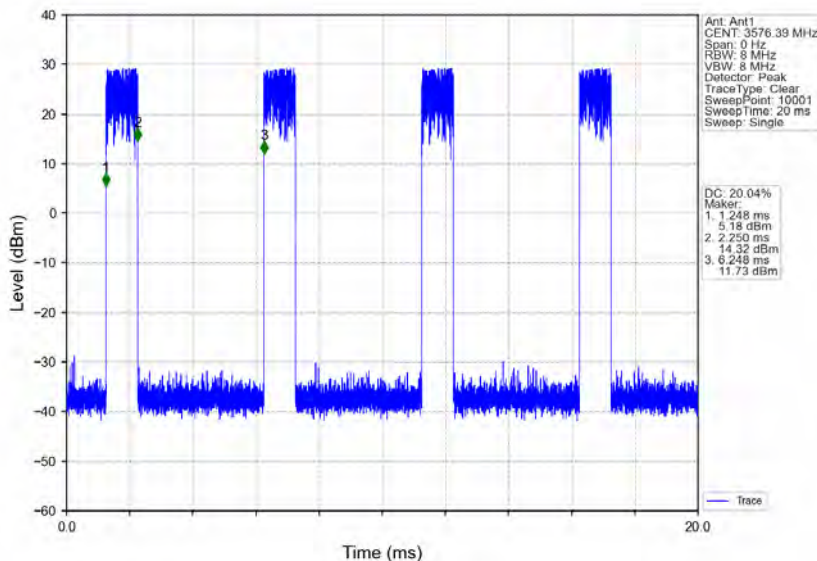
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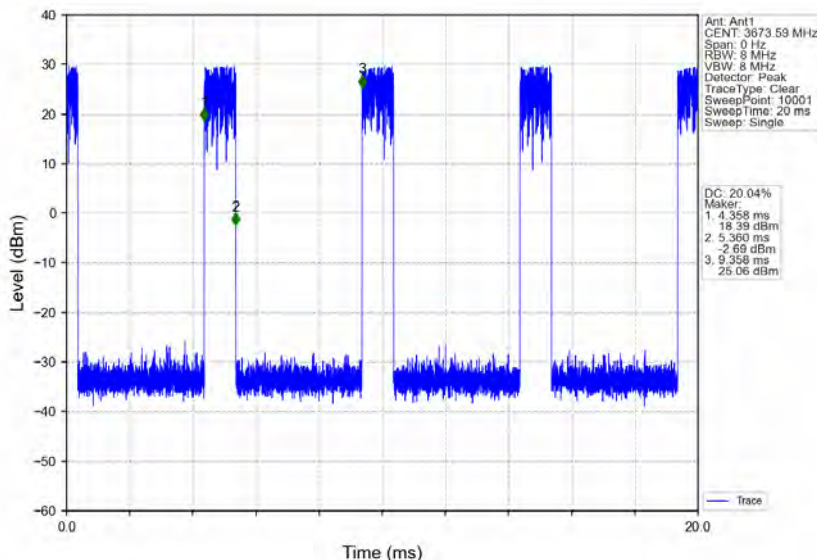
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n78d\_30kHz\_MIMO\_NTNV\_100MHz\_CP-OFDM QPSK\_3624.99MHz\_Inner\_1RB\_Right



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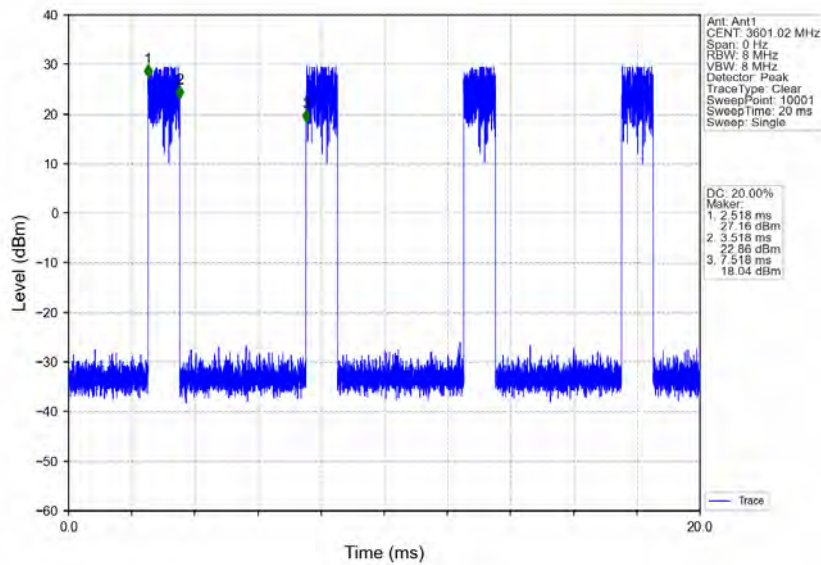
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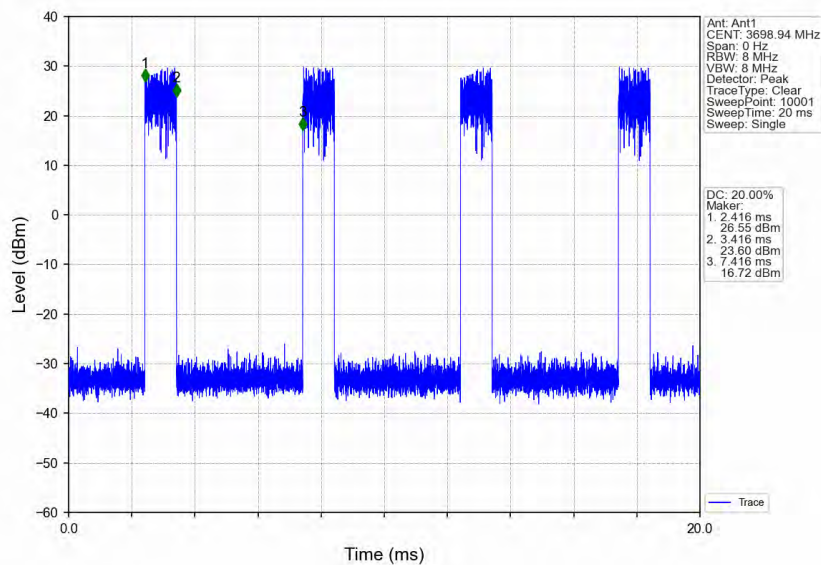
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n78d\_30kHz\_MIMO\_NTNV\_100MHz\_CP-OFDM QPSK\_3649.98MHz\_Edge\_1RB\_Right



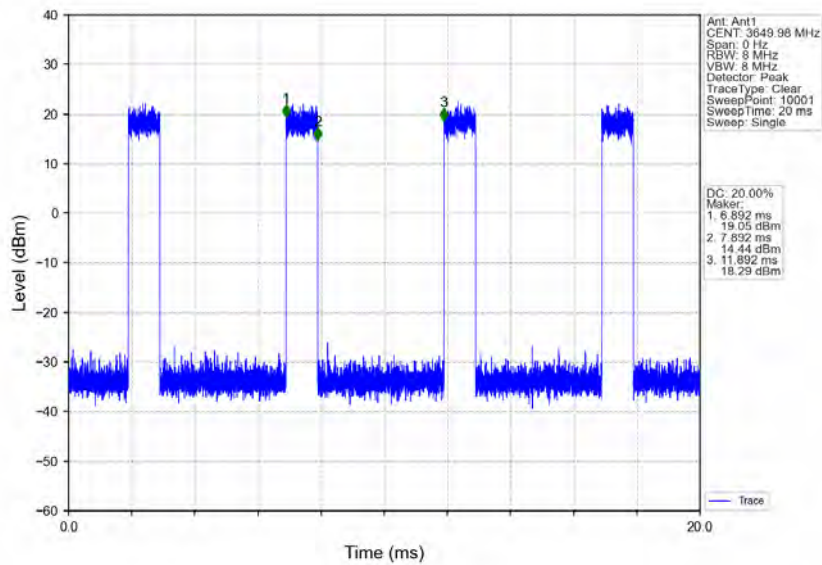
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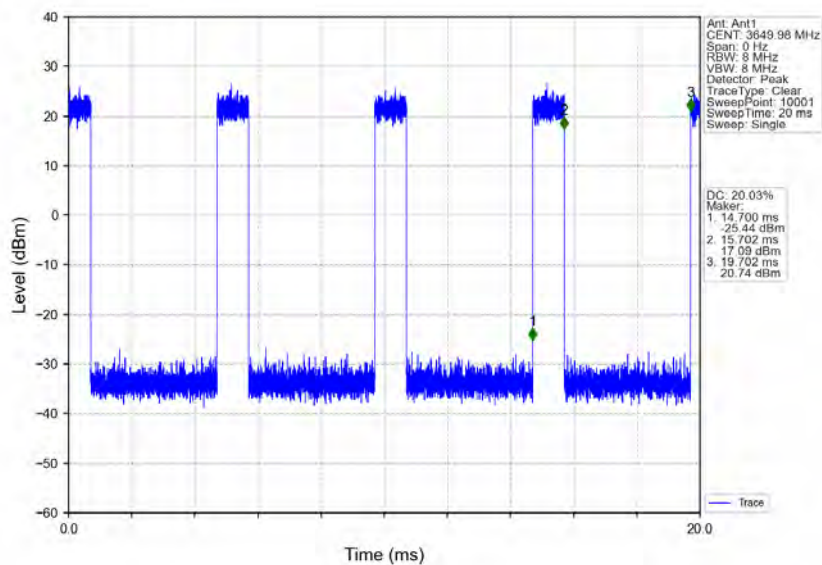
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n78d\_30kHz\_MIMO\_NTNV\_100MHz\_CP-OFDM QPSK\_3649.98MHz\_Outer\_Full



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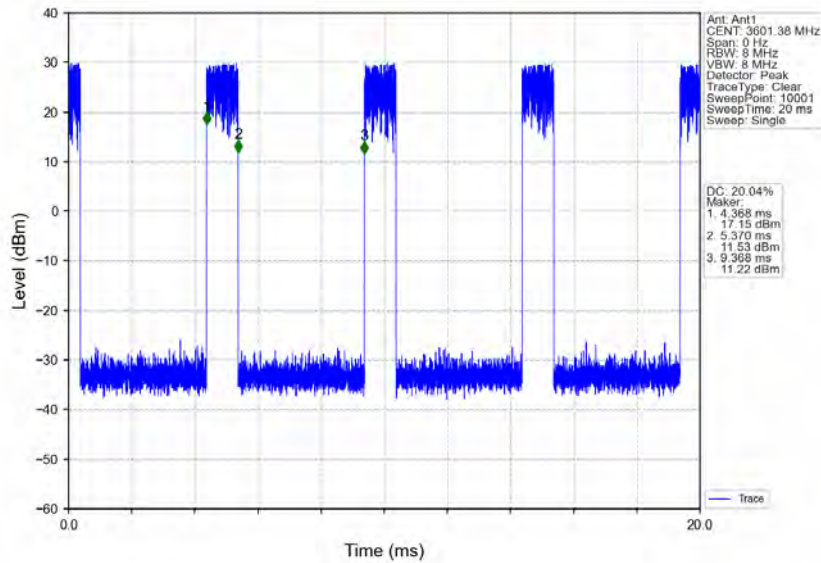
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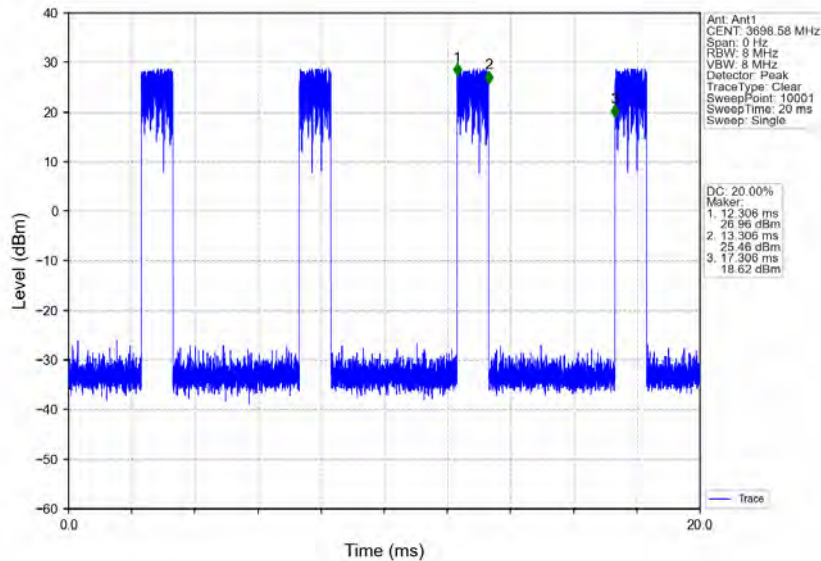
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n78d\_30kHz\_MIMO\_NTNV\_100MHz\_CP-OFDM QPSK\_3649.98MHz\_Inner\_1RB\_Left



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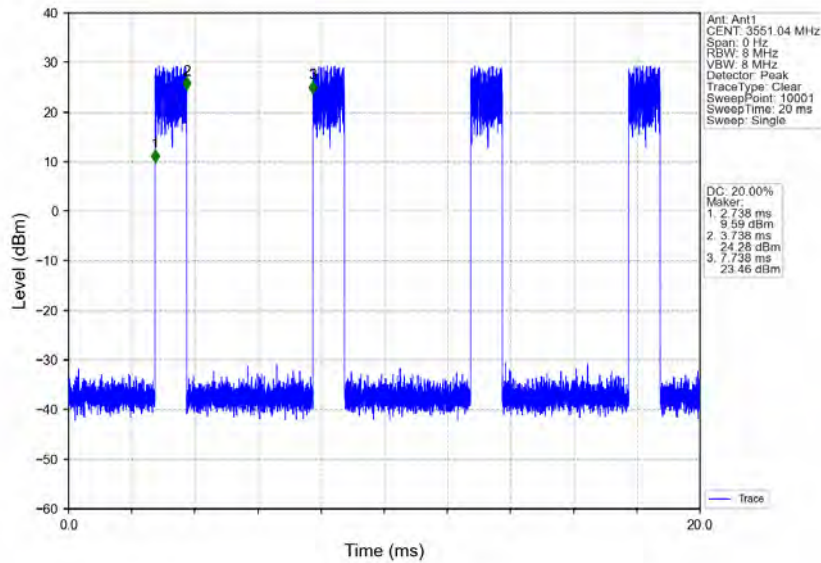
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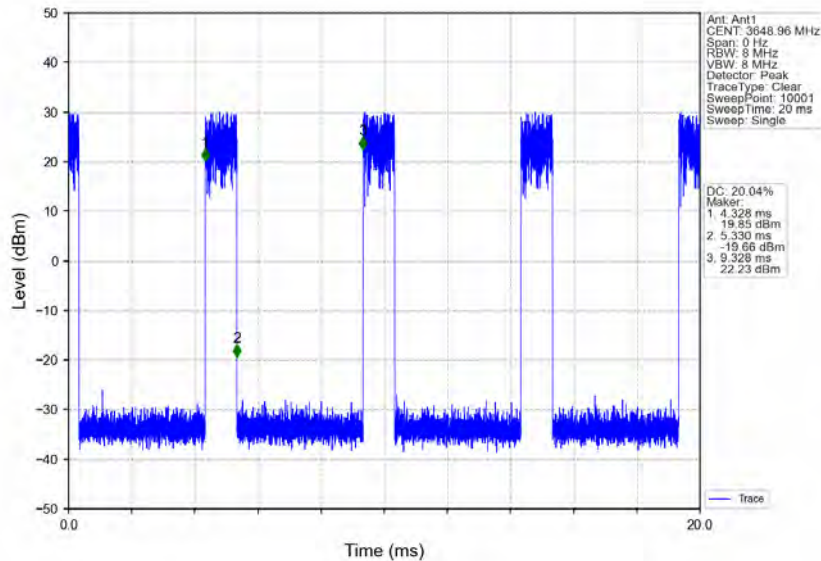
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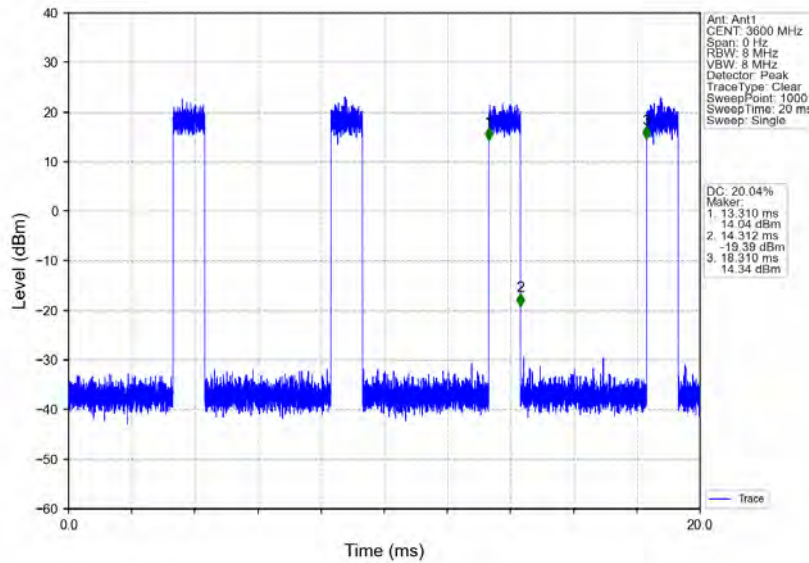
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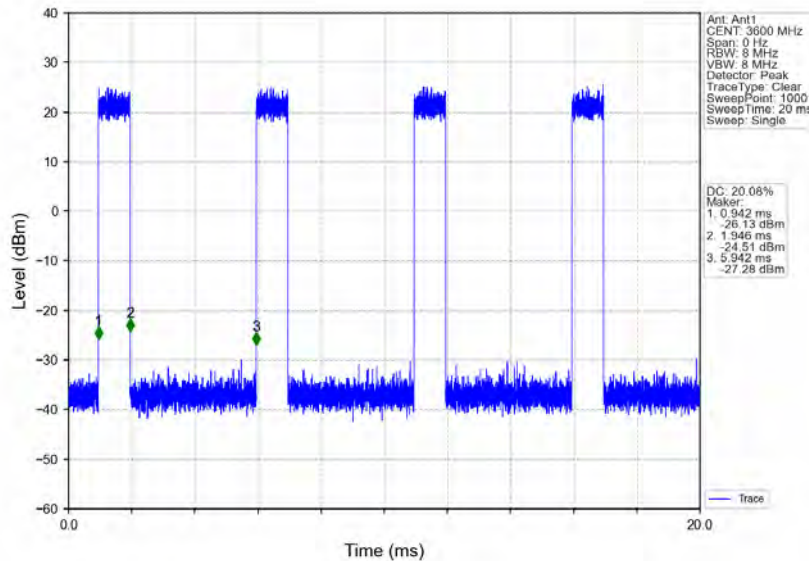
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n78d\_30kHz\_MIMO\_NTNV\_100MHz\_CP-OFDM 16 QAM\_3600MHz\_Outer\_Full



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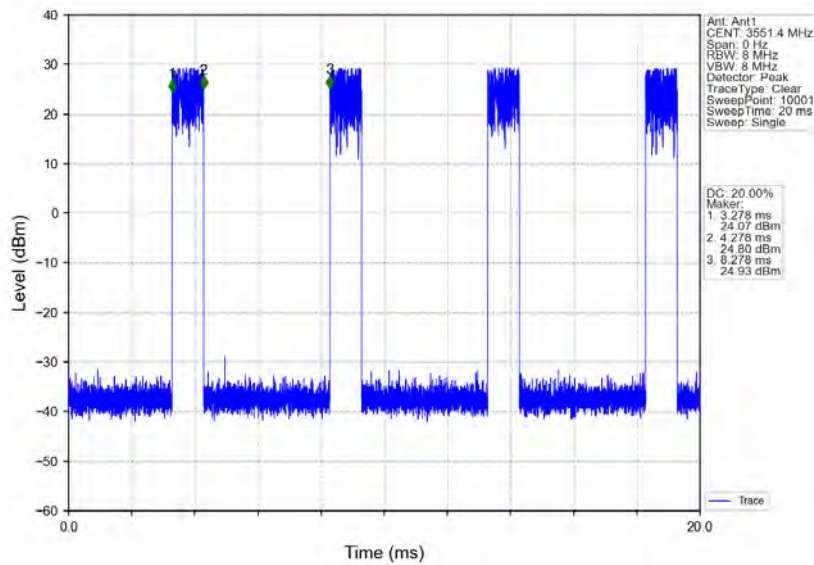
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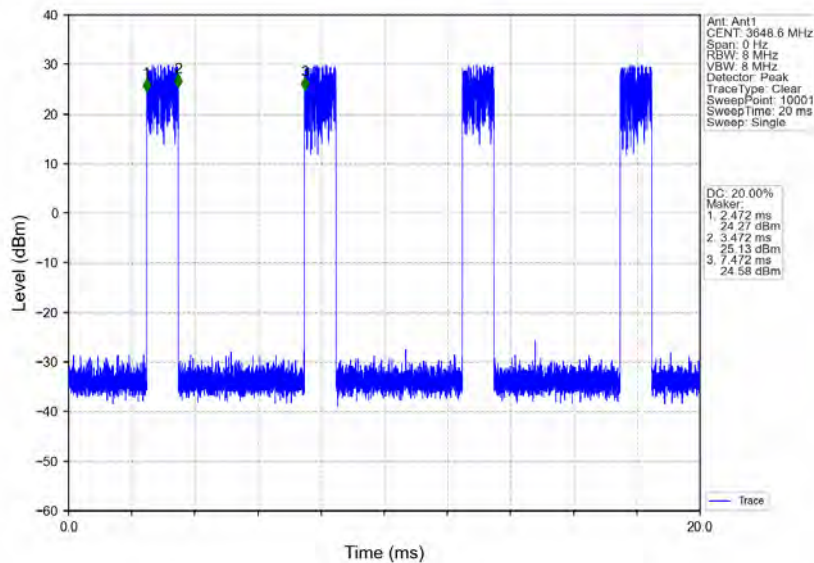
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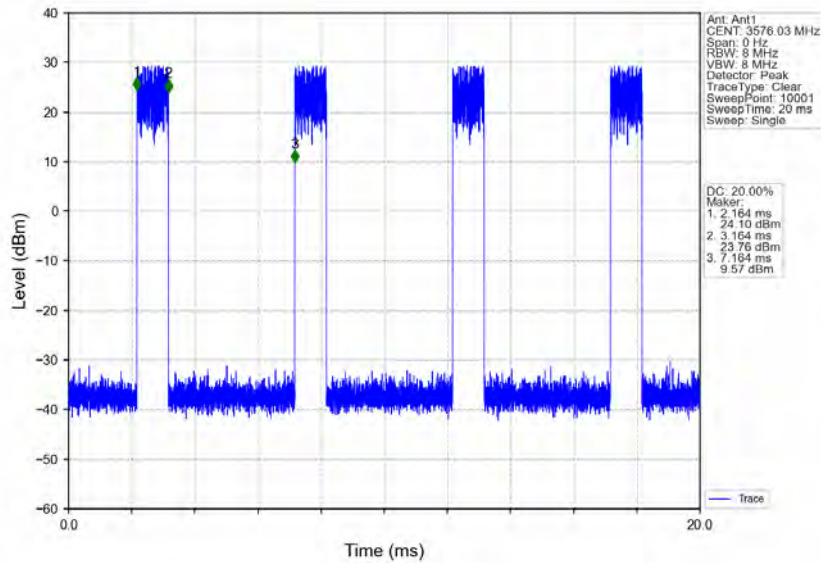
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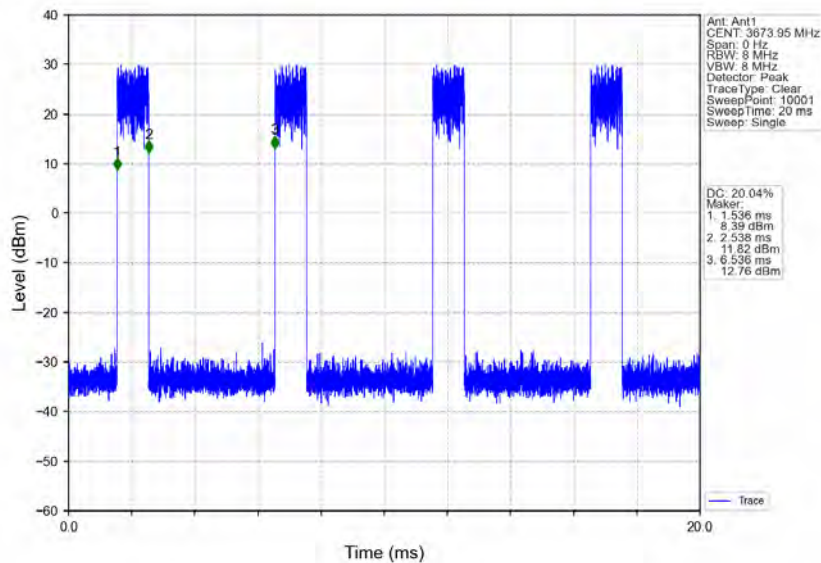
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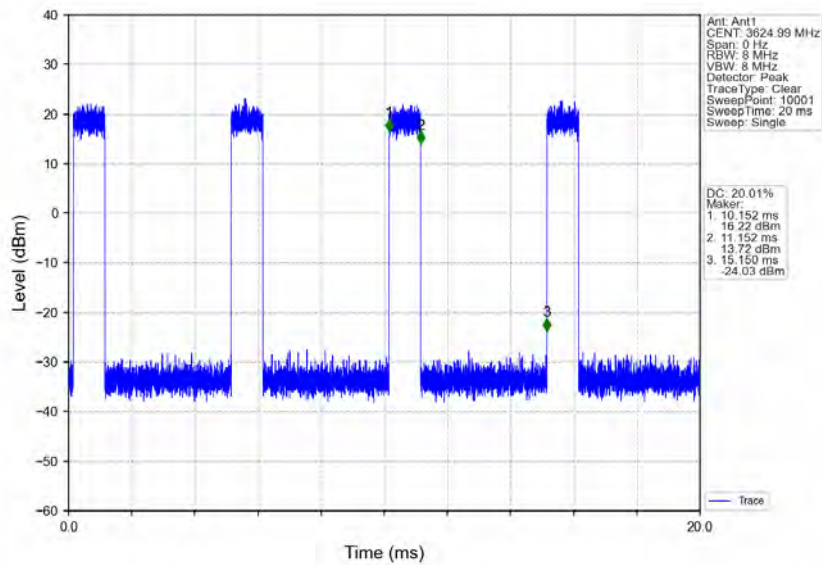
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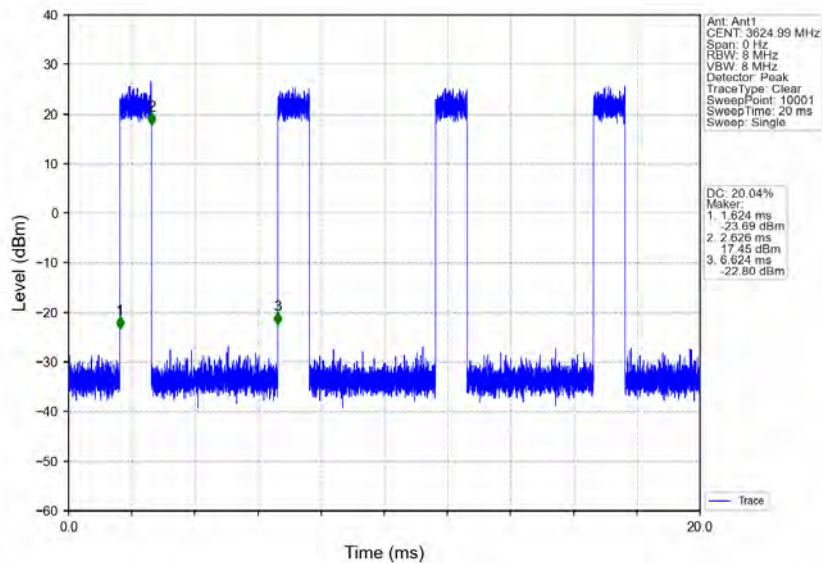
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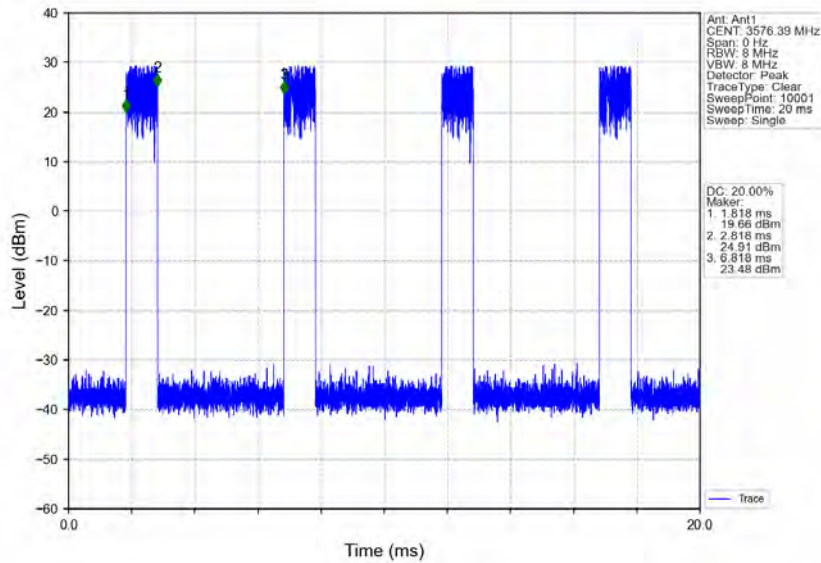
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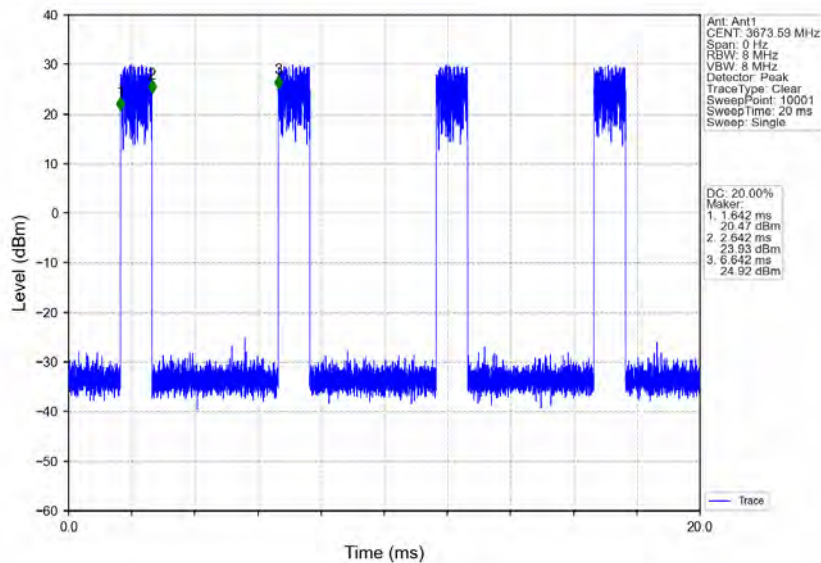
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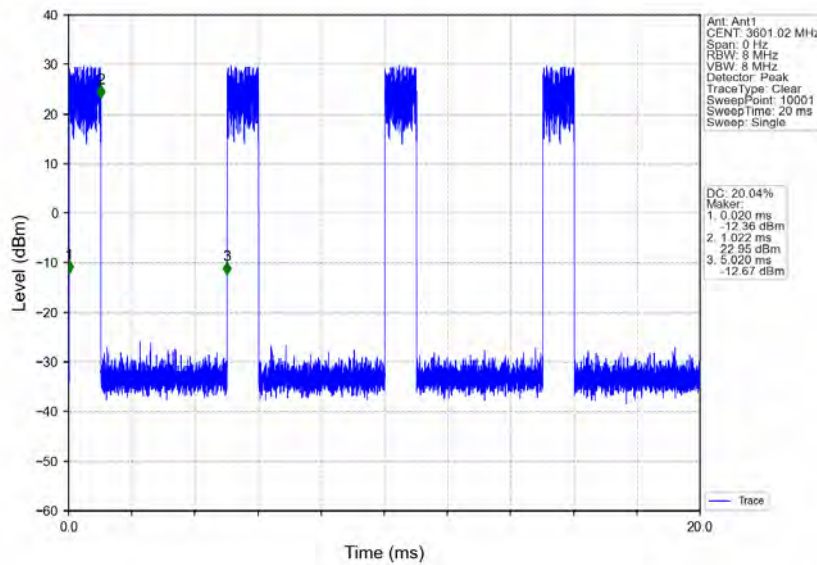
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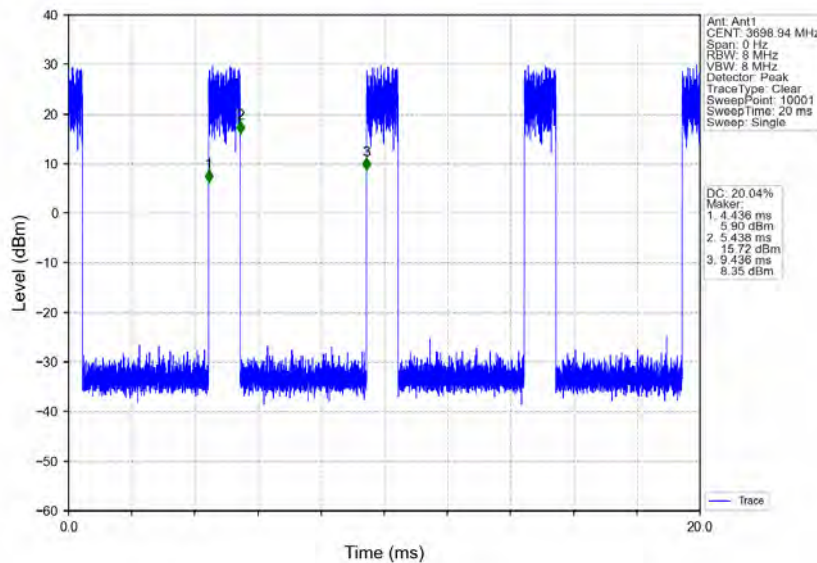
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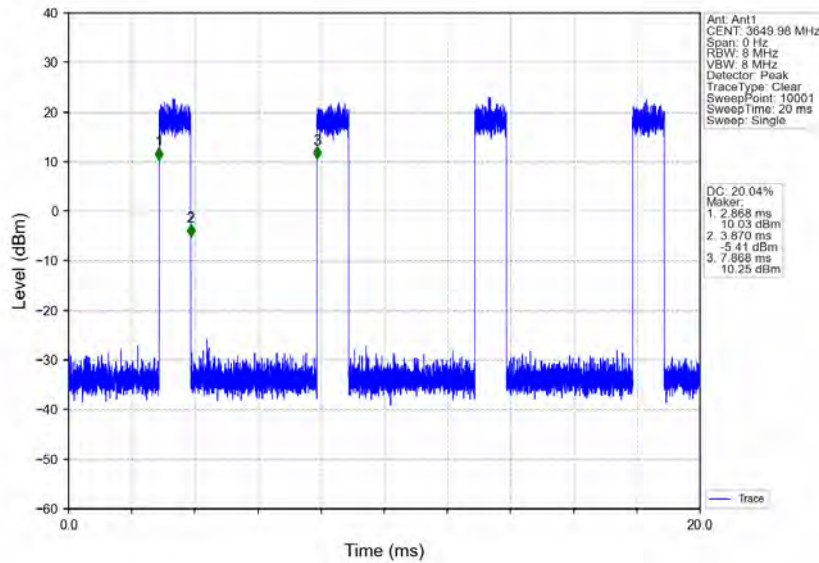
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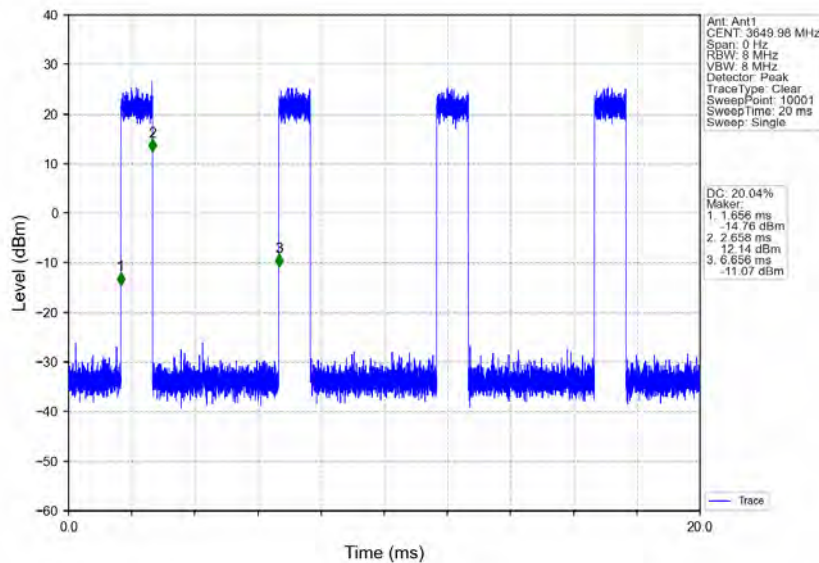
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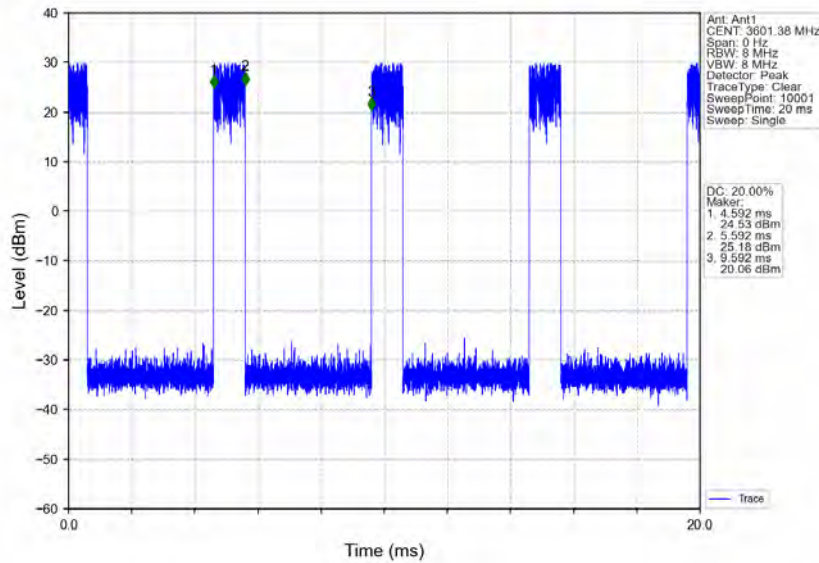
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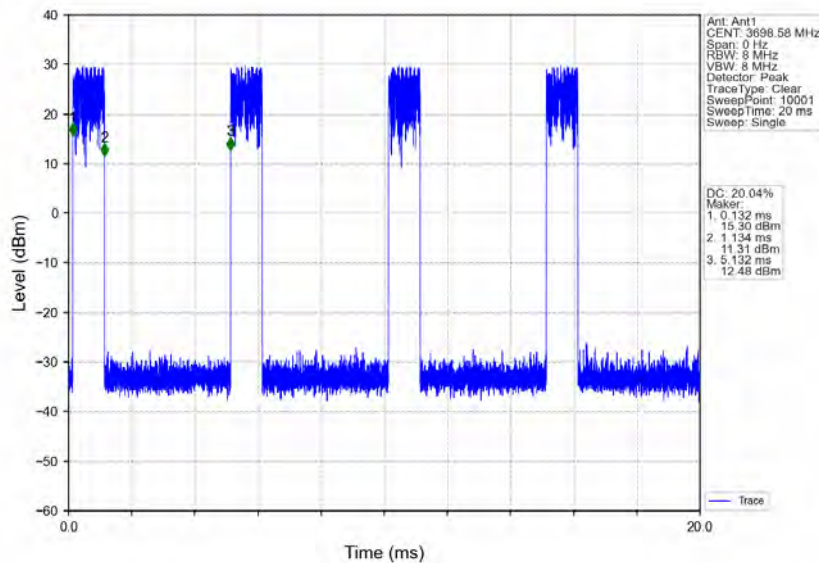
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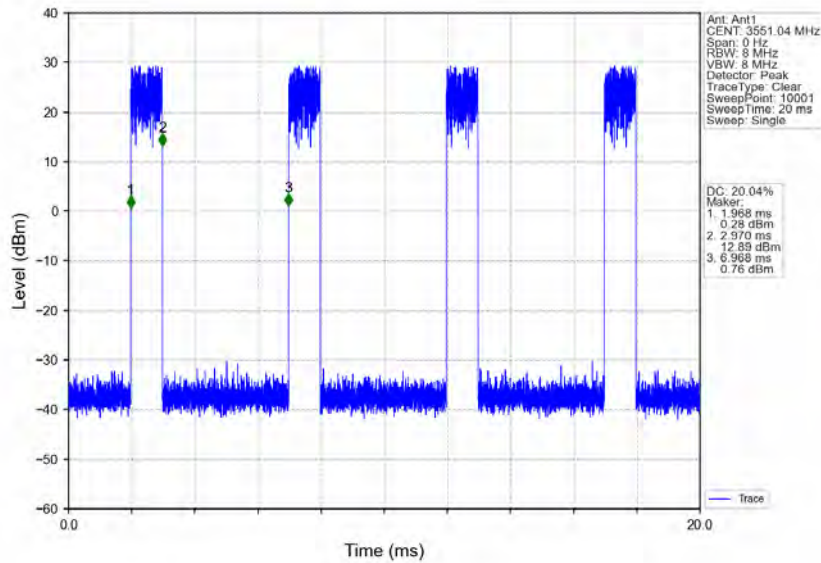
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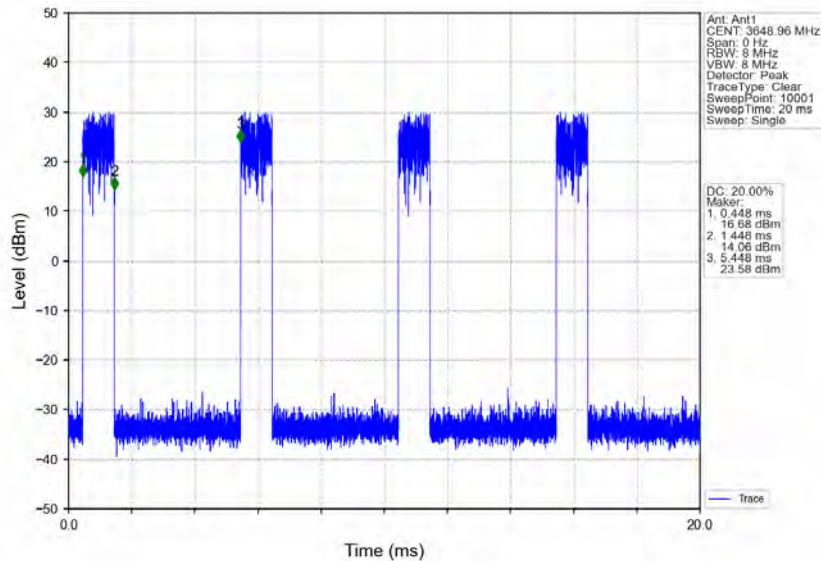
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n78d\_30kHz\_MIMO\_NTNV\_100MHz\_CP-OFDM 64 QAM\_3600MHz\_Edge\_1RB\_Left



n78d\_30kHz\_MIMO\_NTNV\_100MHz\_CP-OFDM 64 QAM\_3600MHz\_Edge\_1RB\_Right



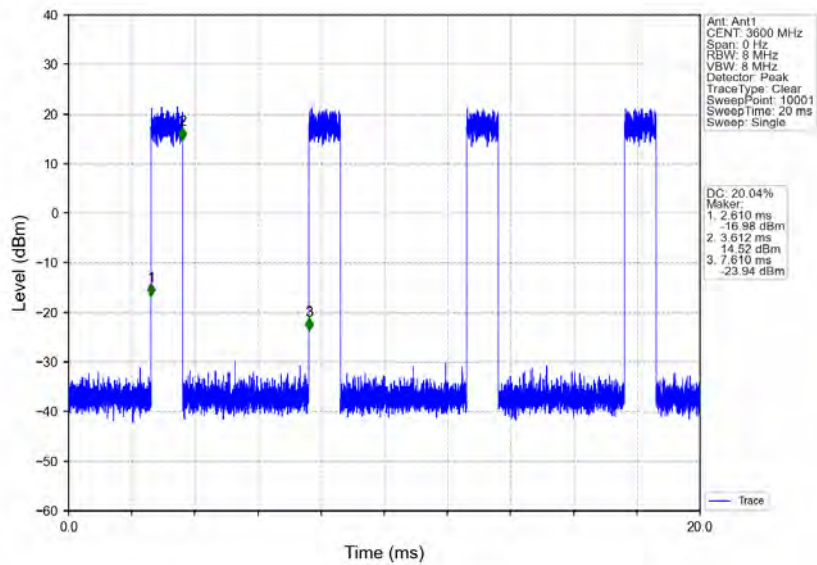
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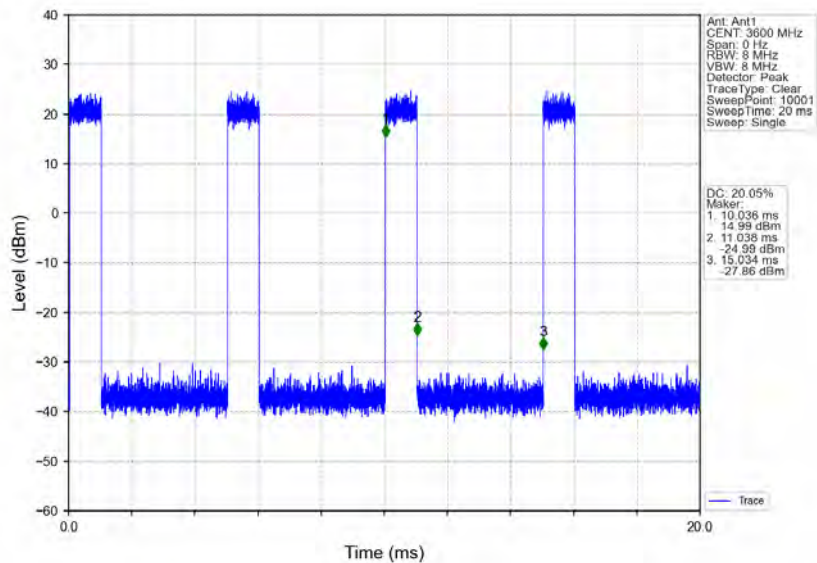
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n78d\_30kHz\_MIMO\_NTNV\_100MHz\_CP-OFDM 64 QAM\_3600MHz\_Outer\_Full



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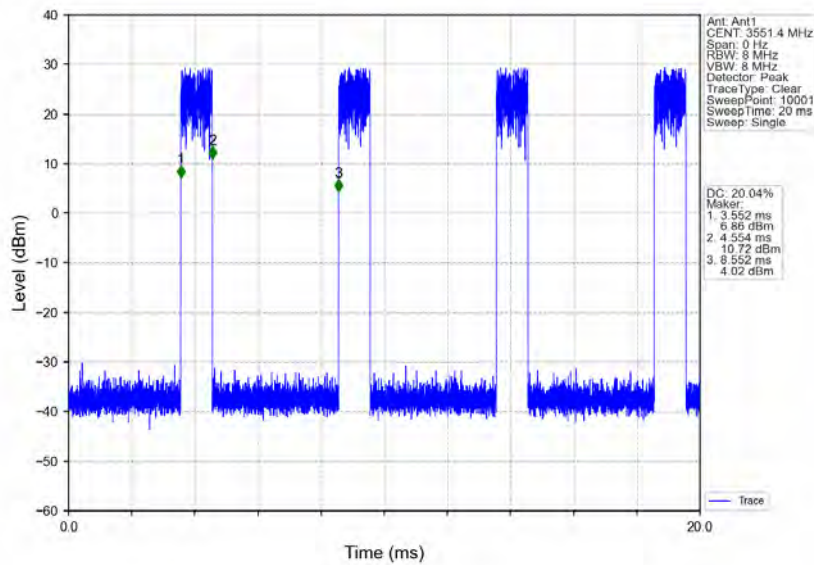
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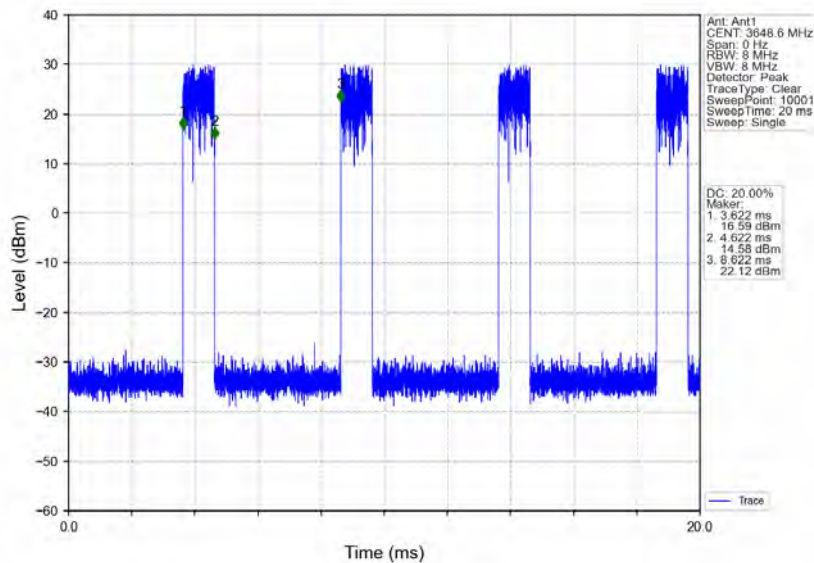
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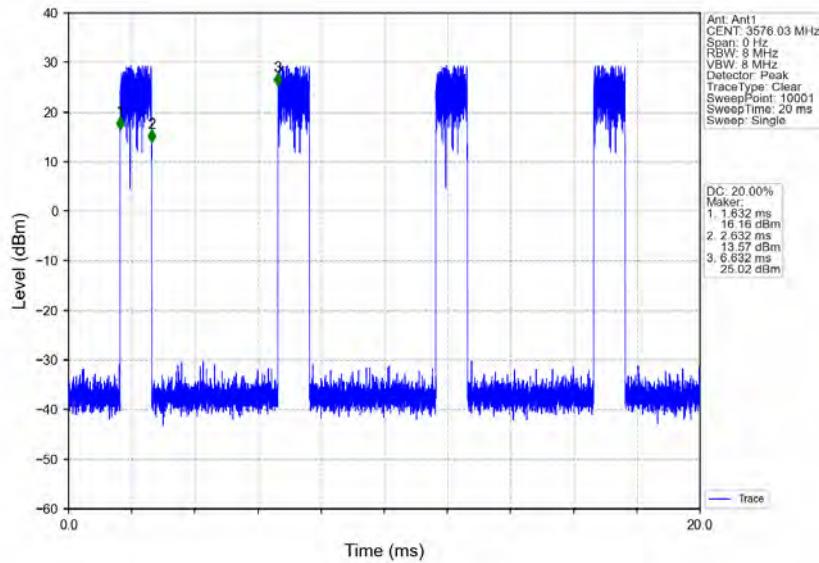
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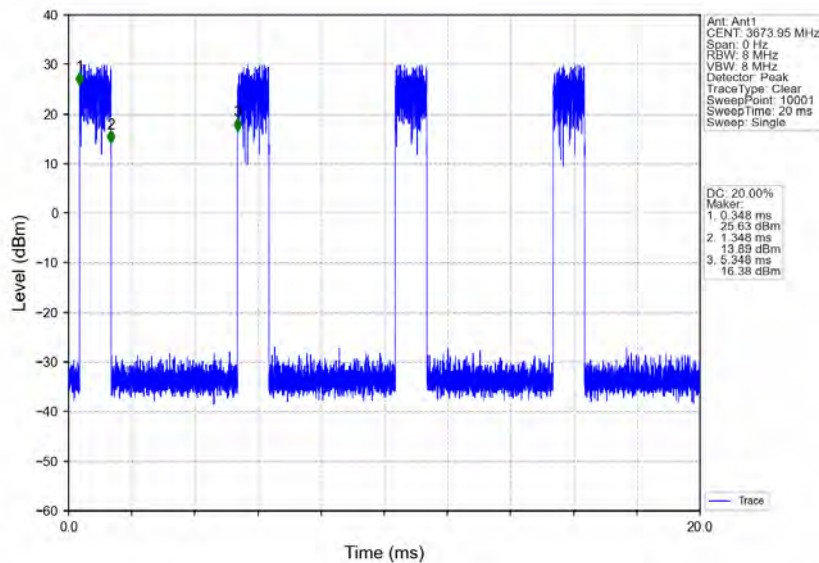
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n78d\_30kHz\_MIMO\_NTNV\_100MHz\_CP-OFDM 64 QAM\_3624.99MHz\_Edge\_1RB\_Left



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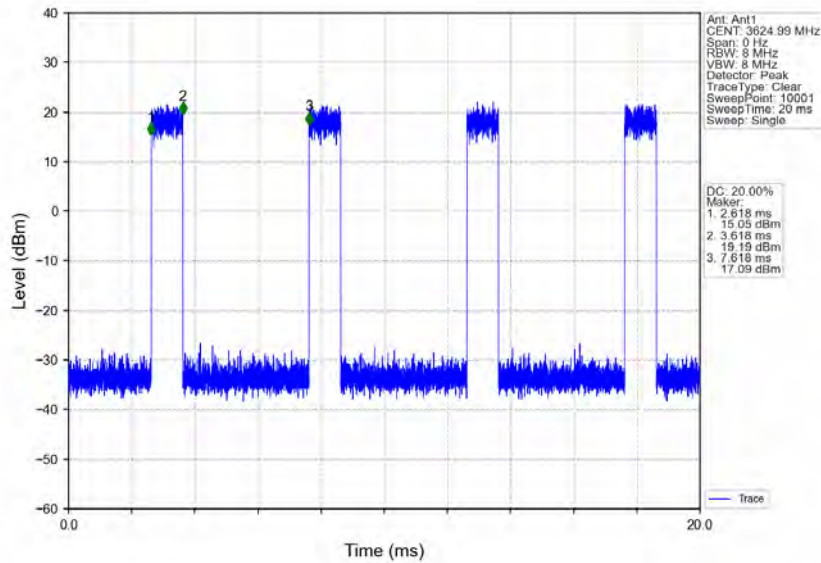
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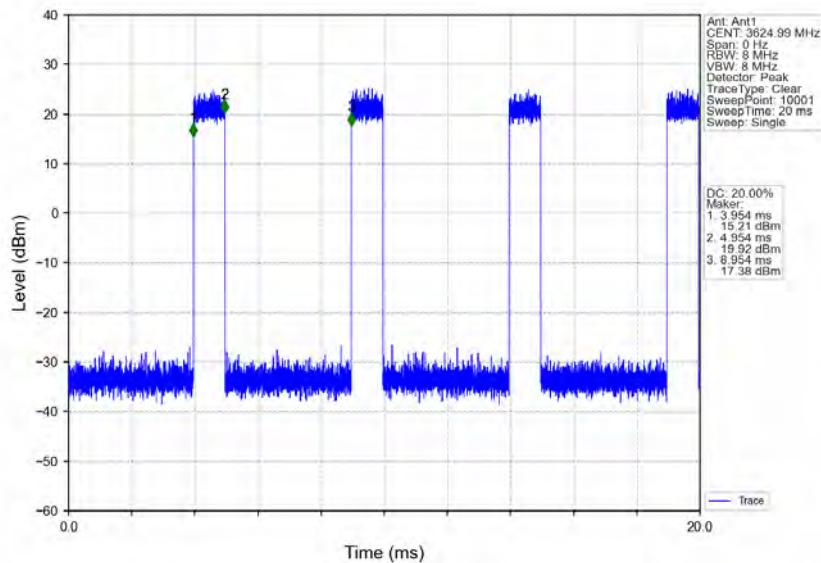
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n78d\_30kHz\_MIMO\_NTNV\_100MHz\_CP-OFDM 64 QAM\_3624.99MHz\_Outer\_Full



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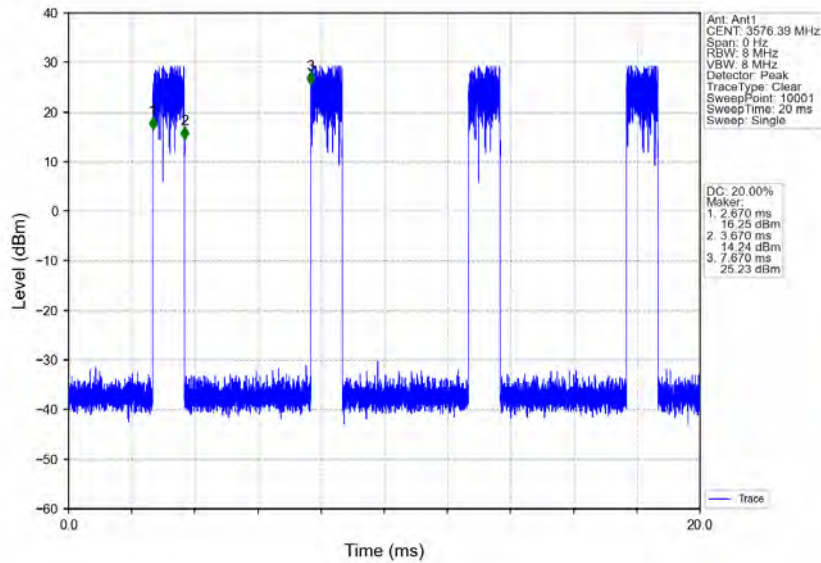
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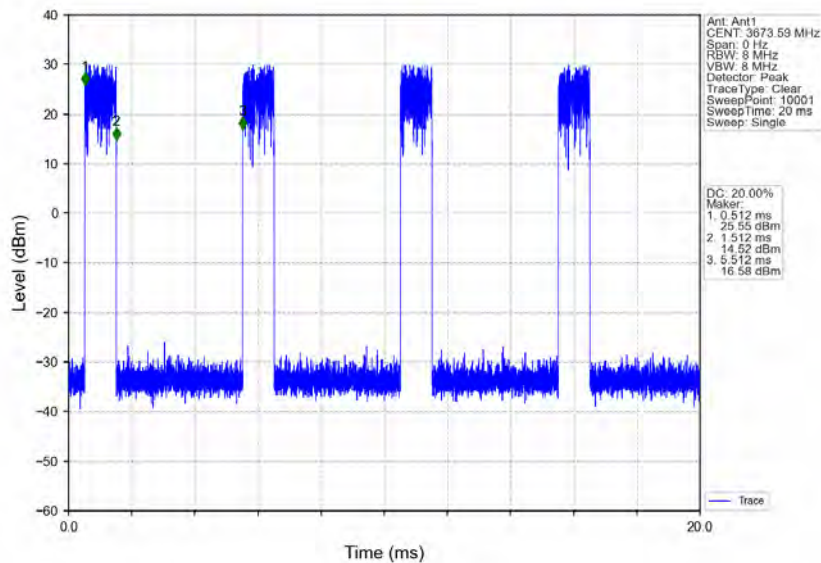
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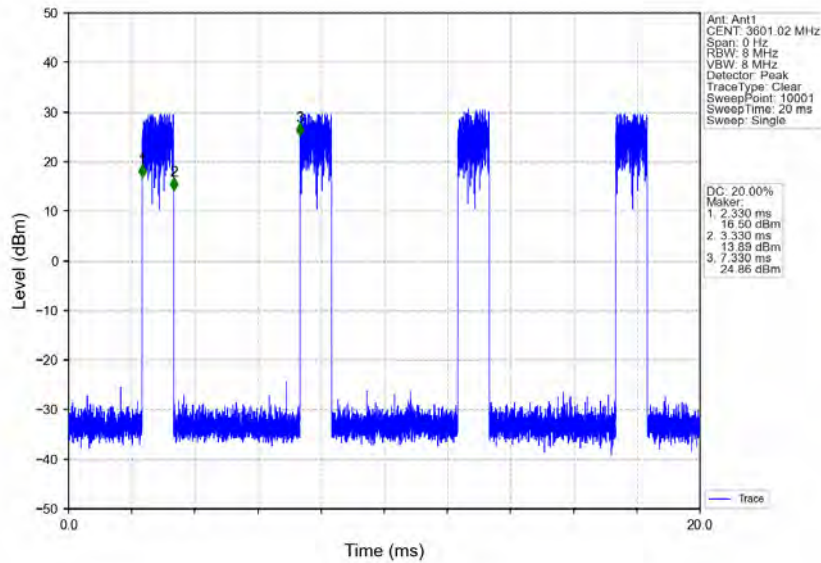
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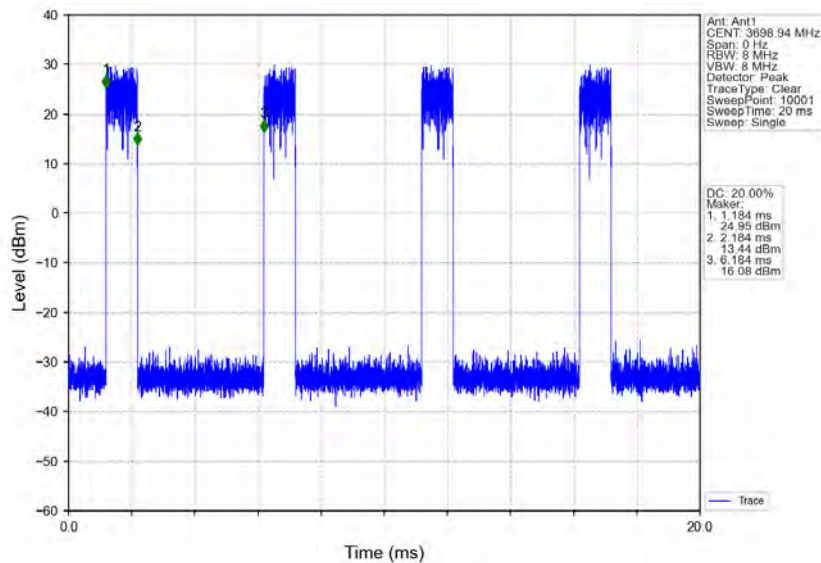
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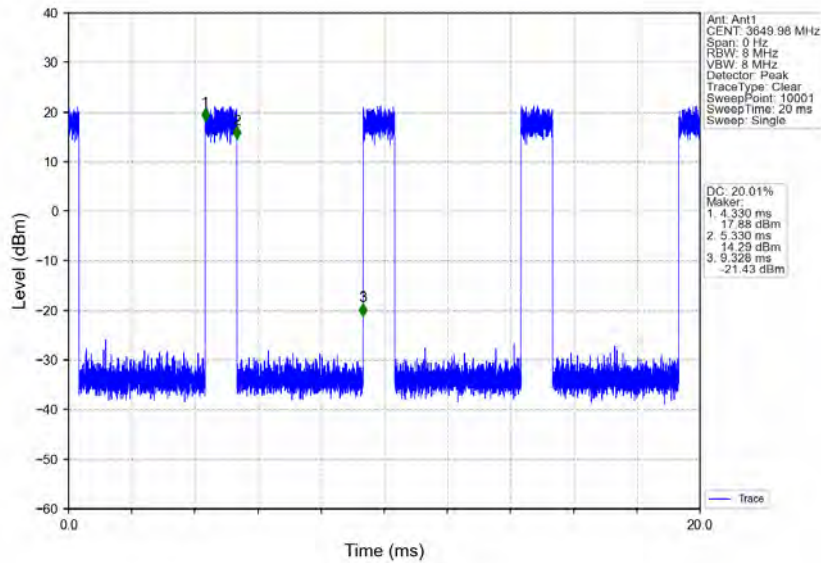
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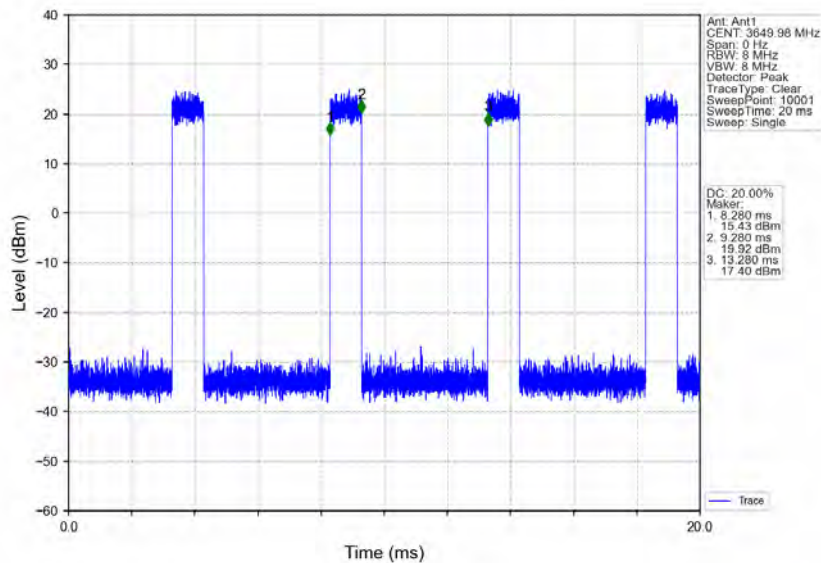
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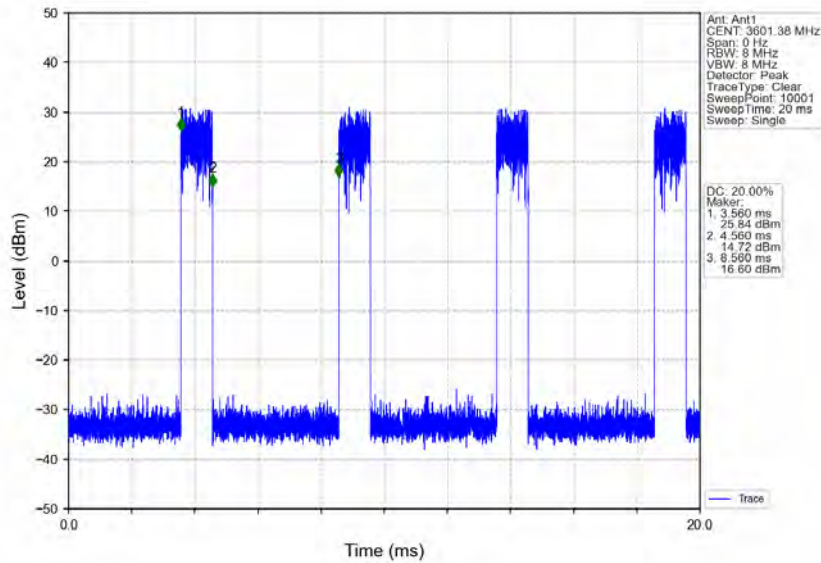
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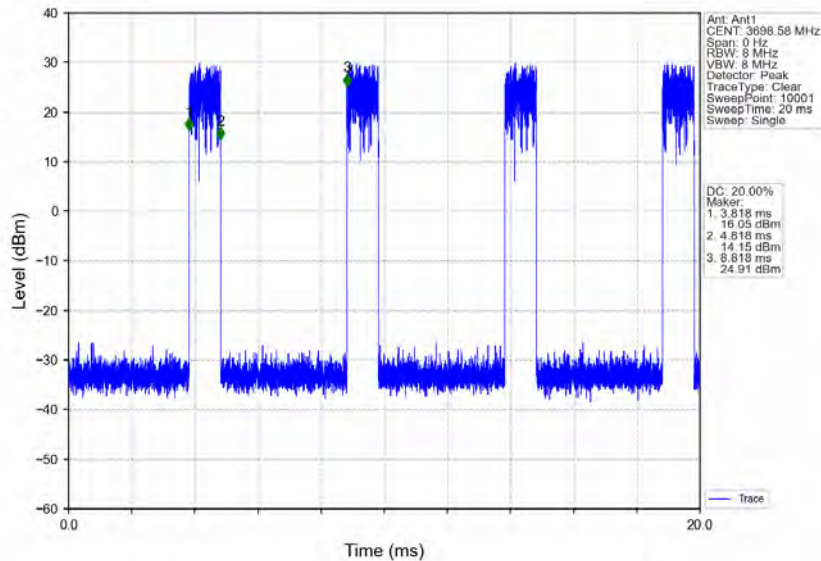
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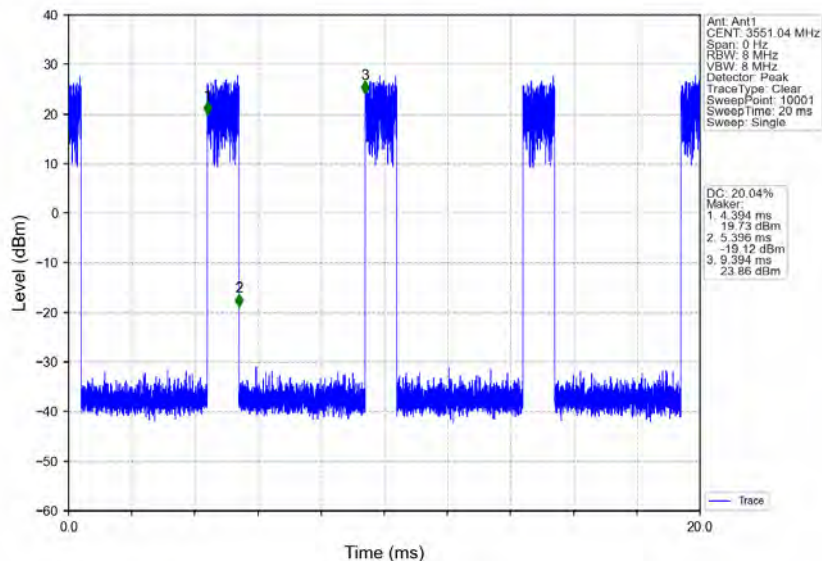
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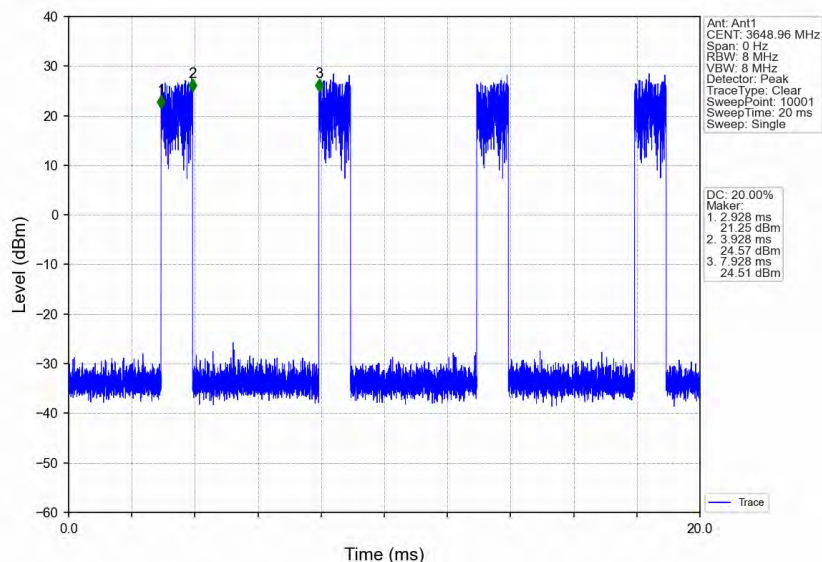
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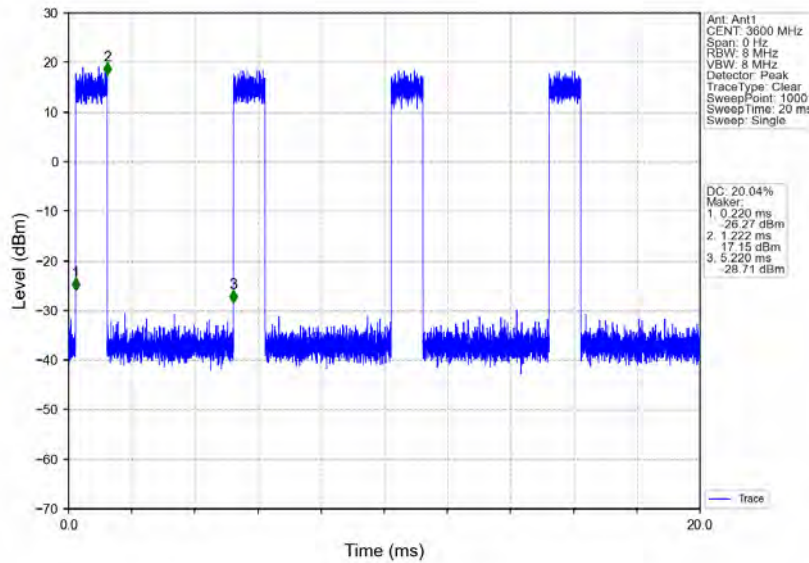
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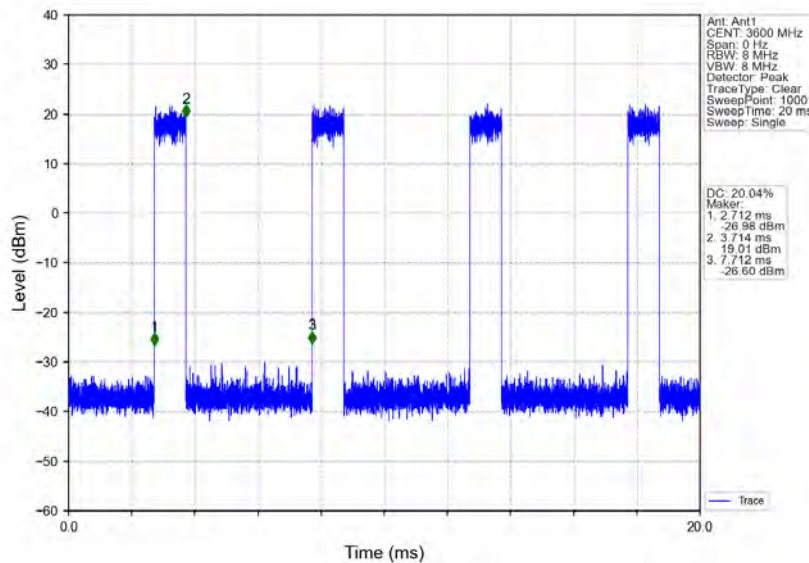
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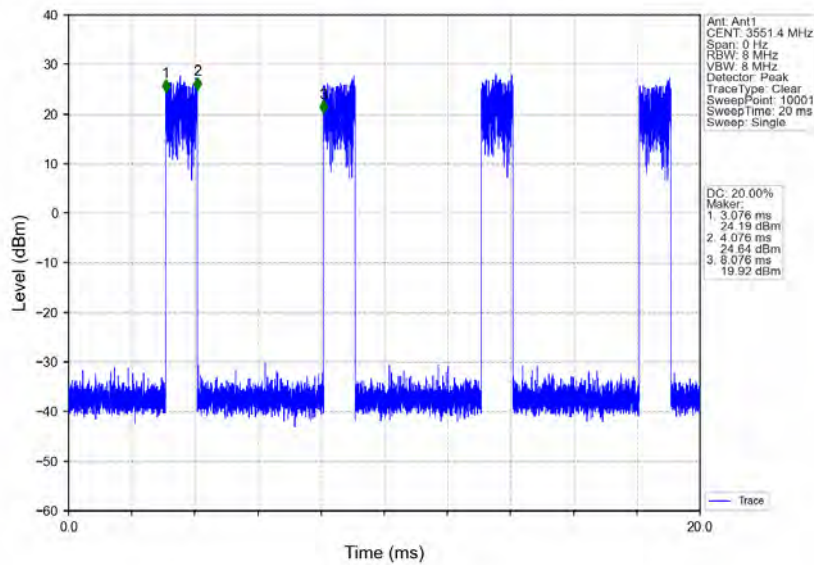
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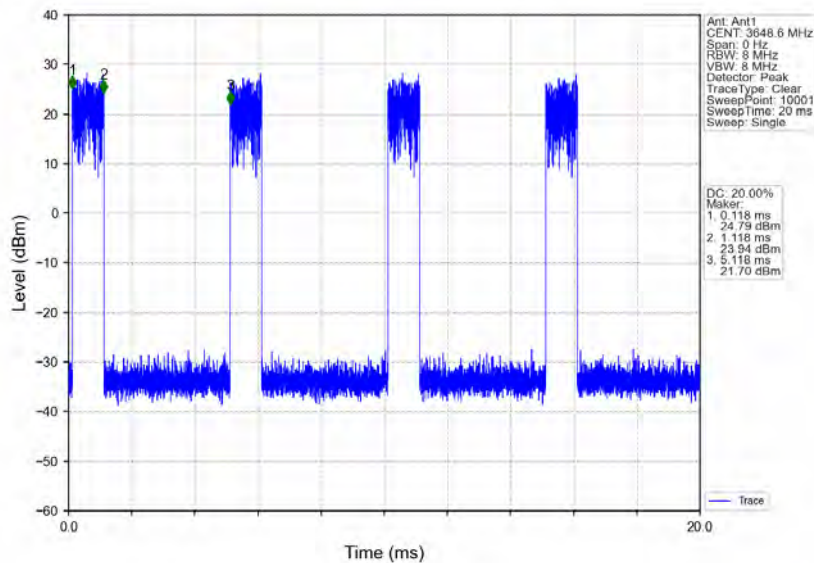
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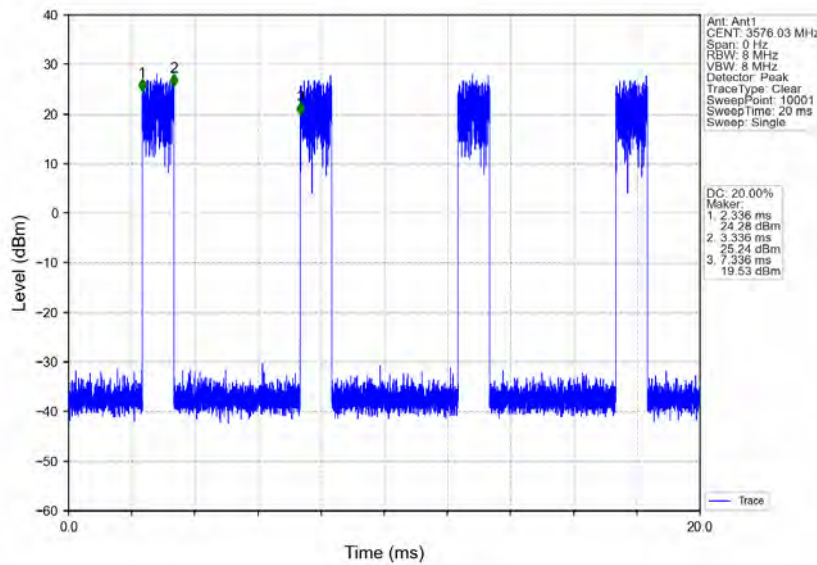
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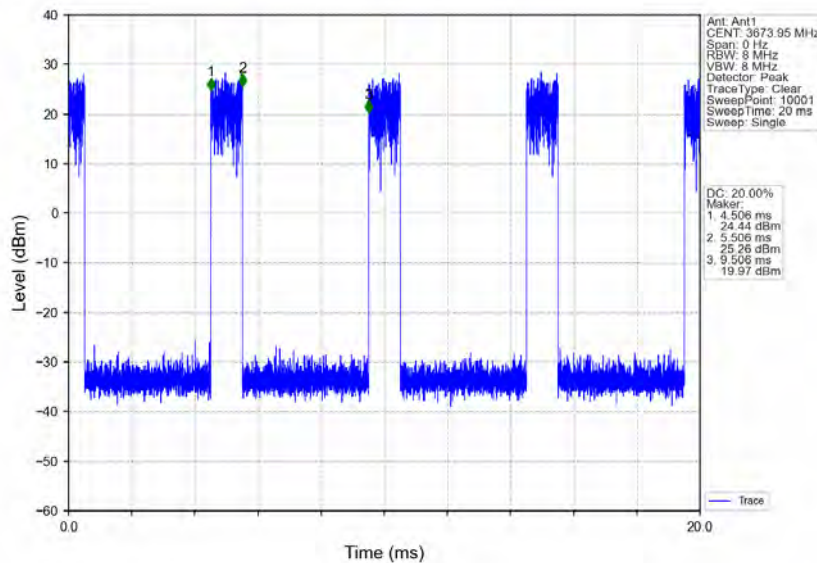
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n78d\_30kHz\_MIMO\_NTNV\_100MHz\_CP-OFDM 256 QAM\_3624.99MHz\_Edge\_1RB\_Left



n78d\_30kHz\_MIMO\_NTNV\_100MHz\_CP-OFDM 256 QAM\_3624.99MHz\_Edge\_1RB\_Right



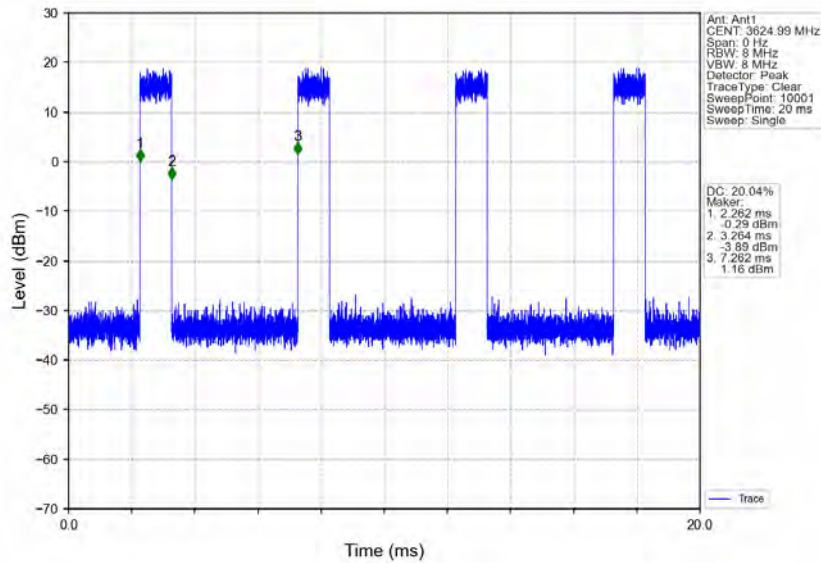
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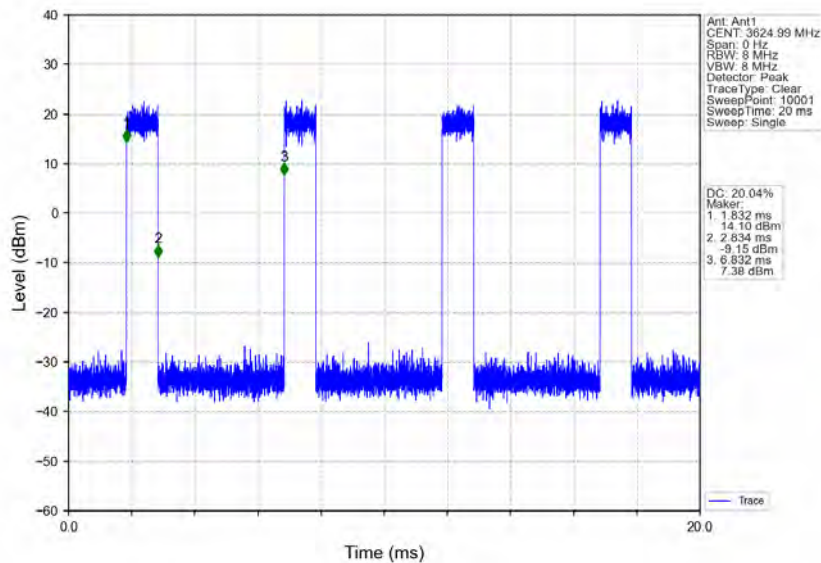
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n78d\_30kHz\_MIMO\_NTNV\_100MHz\_CP-OFDM 256 QAM\_3624.99MHz\_Outer\_Full



n78d\_30kHz\_MIMO\_NTNV\_100MHz\_CP-OFDM 256 QAM\_3624.99MHz\_Inner\_Full



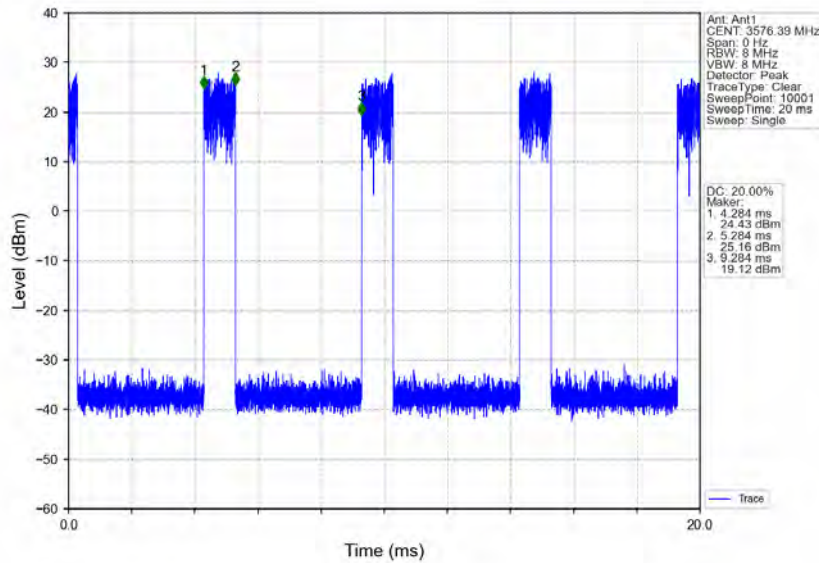
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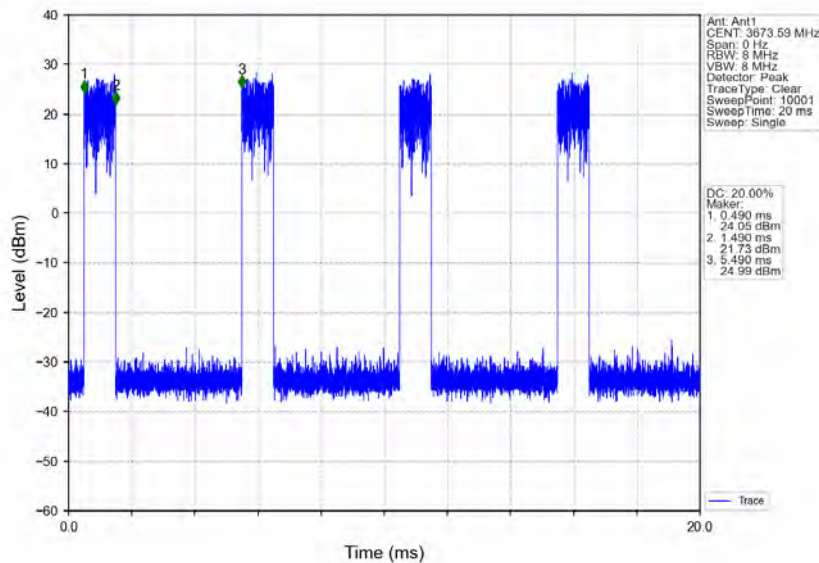
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n78d\_30kHz\_MIMO\_NTNV\_100MHz\_CP-OFDM 256 QAM\_3624.99MHz\_Inner\_1RB\_Left



n78d\_30kHz\_MIMO\_NTNV\_100MHz\_CP-OFDM 256 QAM\_3624.99MHz\_Inner\_1RB\_Right



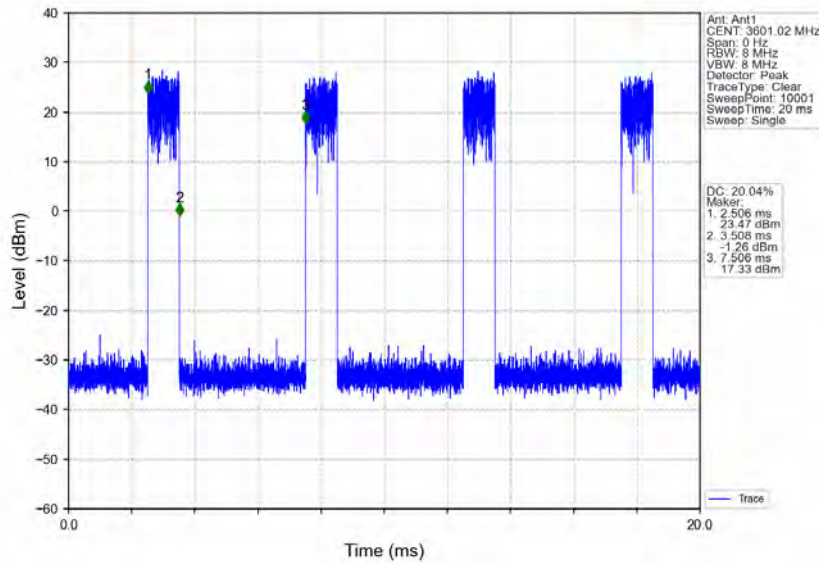
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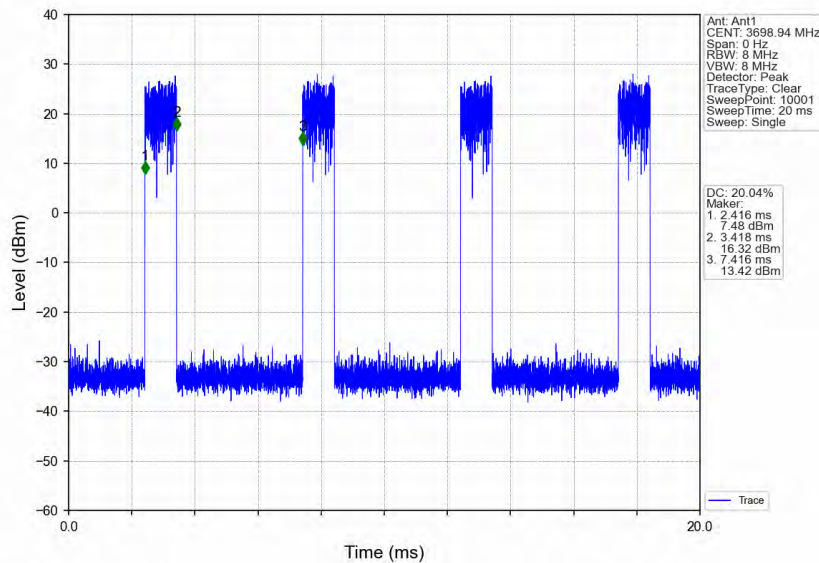
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n78d\_30kHz\_MIMO\_NTNV\_100MHz\_CP-OFDM 256 QAM\_3649.98MHz\_Edge\_1RB\_Left



n78d\_30kHz\_MIMO\_NTNV\_100MHz\_CP-OFDM 256 QAM\_3649.98MHz\_Edge\_1RB\_Right



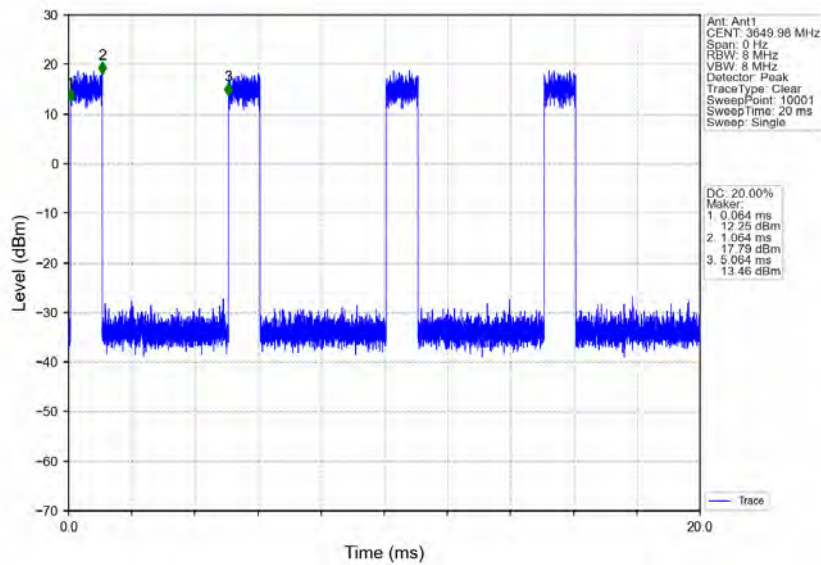
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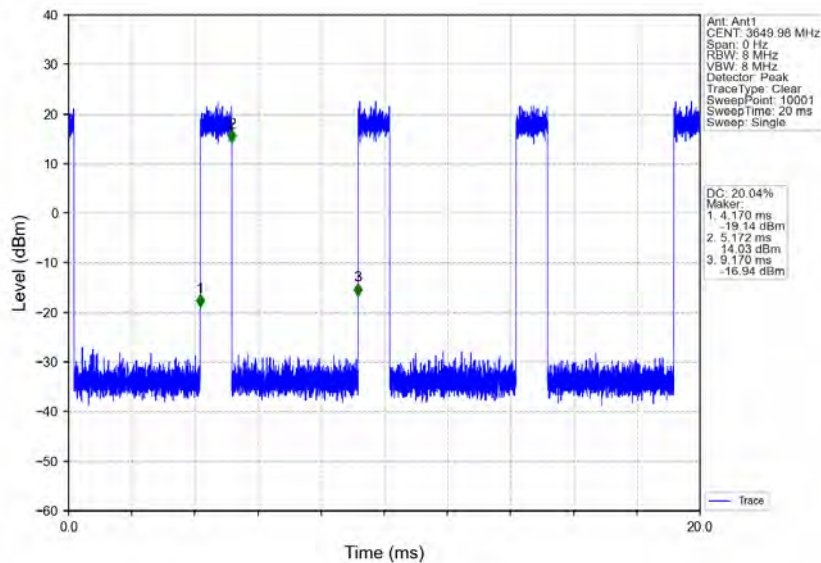
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n78d\_30kHz\_MIMO\_NTNV\_100MHz\_CP-OFDM 256 QAM\_3649.98MHz\_Outer\_Full



n78d\_30kHz\_MIMO\_NTNV\_100MHz\_CP-OFDM 256 QAM\_3649.98MHz\_Inner\_Full



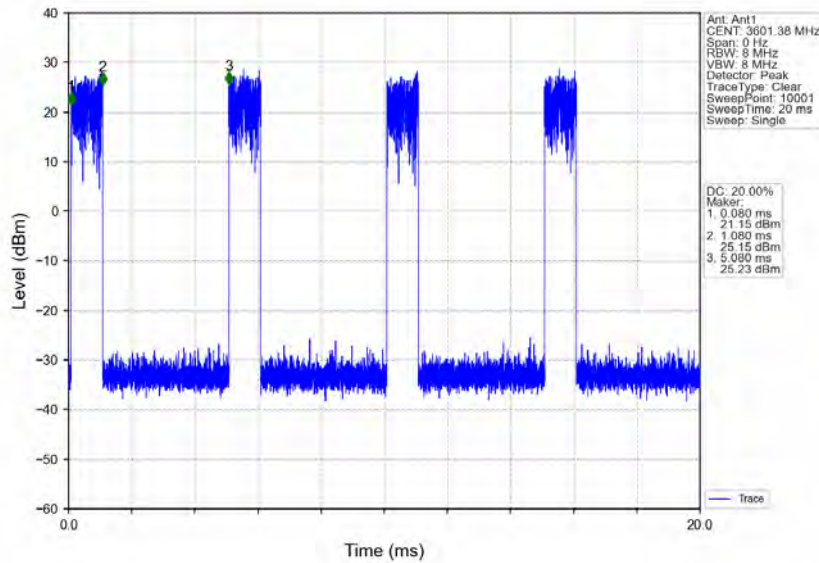
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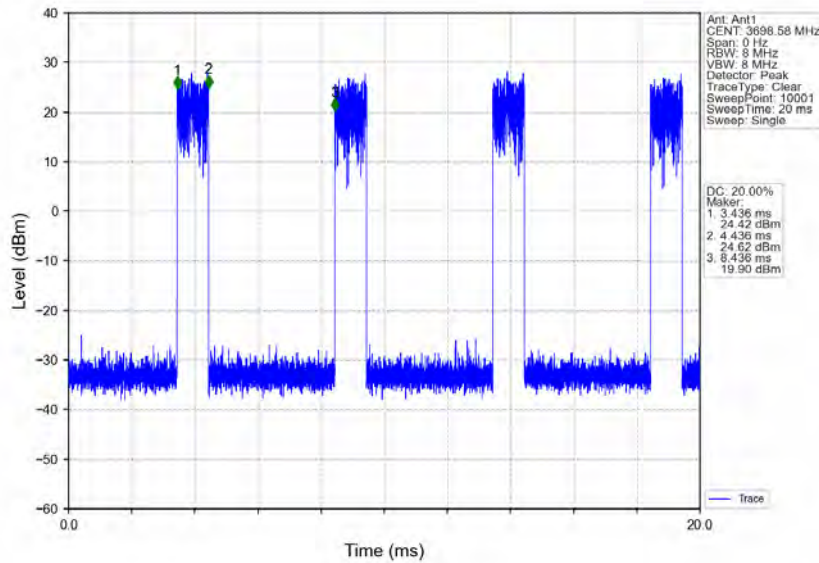
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n78d\_30kHz\_MIMO\_NTNV\_100MHz\_CP-OFDM 256 QAM\_3649.98MHz\_Inner\_1RB\_Left



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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CP-OFDM 256 QAM	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	
<p>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</p>											

## 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	
		Outer_Full	9.82	10.96	13.44	24.14	25.31	27.77	<=37	Pass	

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CP-OFDM 64 QAM	3555	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		
	3624.99	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	
		3694.98	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
			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
3694.98	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		
	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		
	3694.98	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	
3694.98		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	
		3624.99	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
	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	
3694.98	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		
	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		
3694.98	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

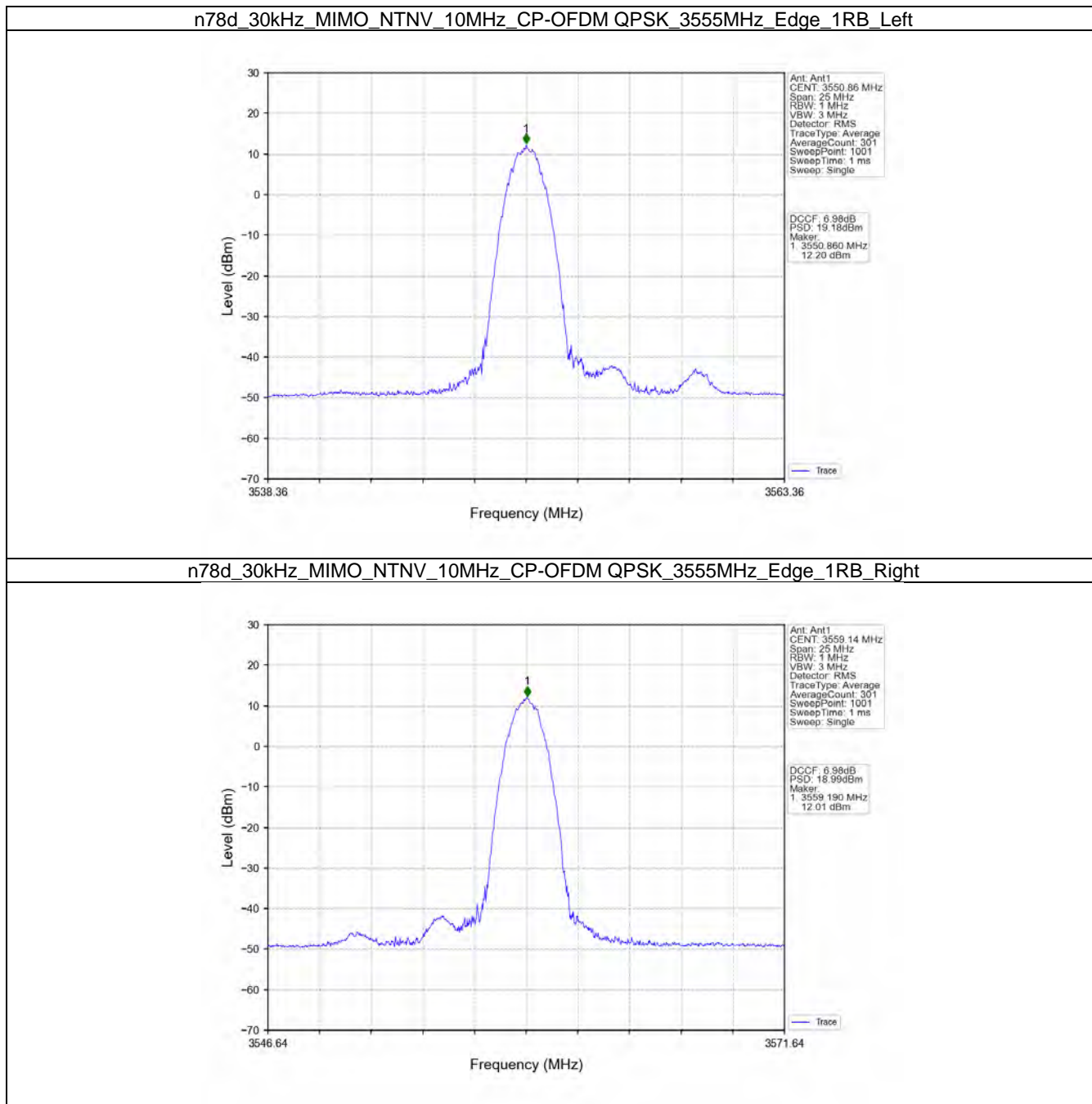


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2.3.2 Test Graph for ANT1



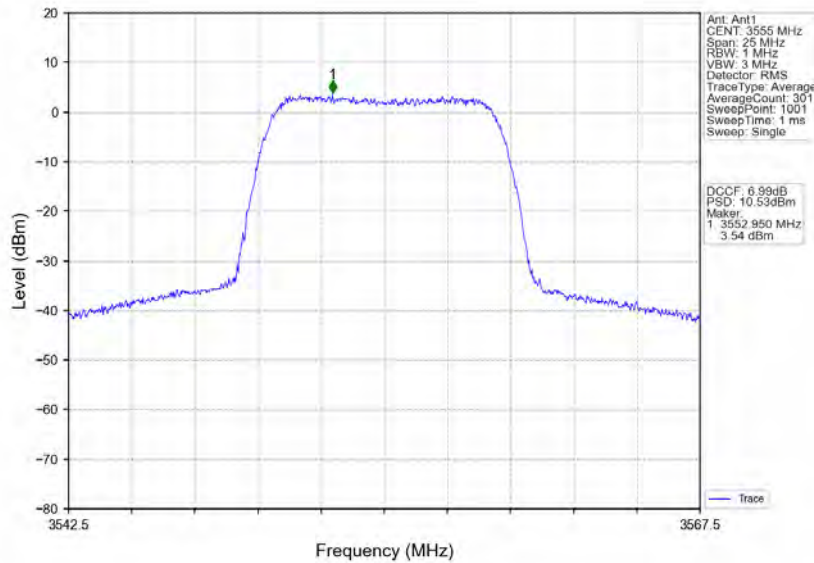
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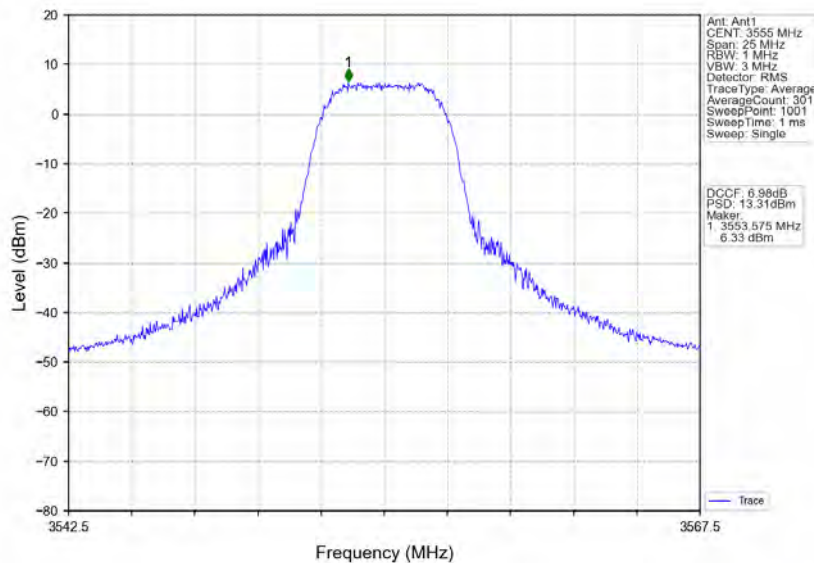
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n78d\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM QPSK\_3555MHz\_Outer\_Full



n78d\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM QPSK\_3555MHz\_Inner\_Full



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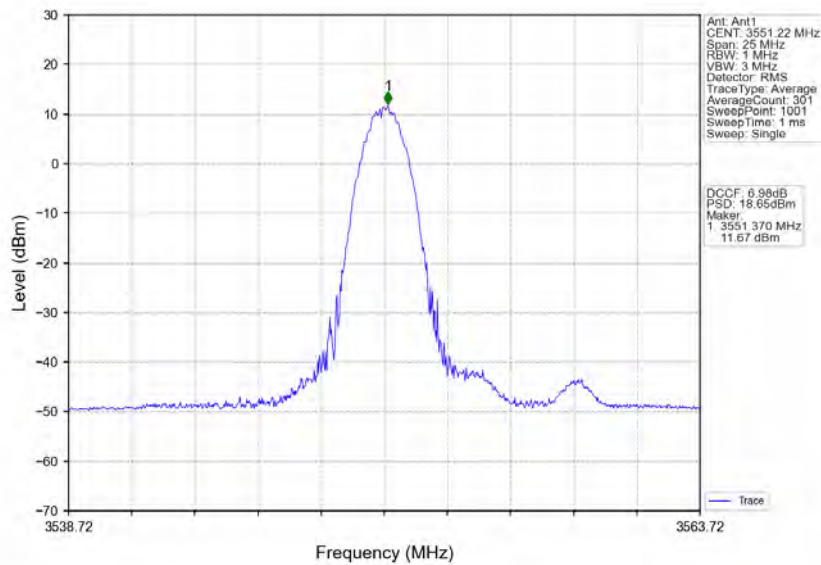
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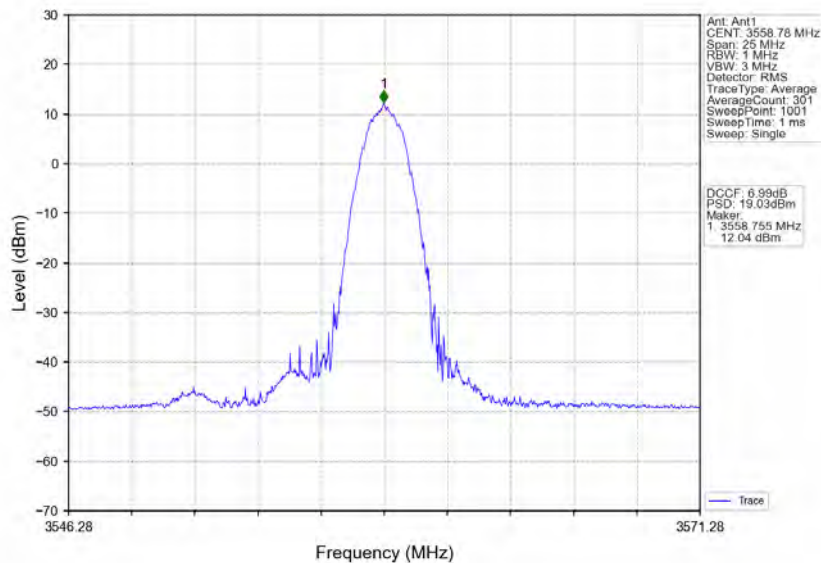
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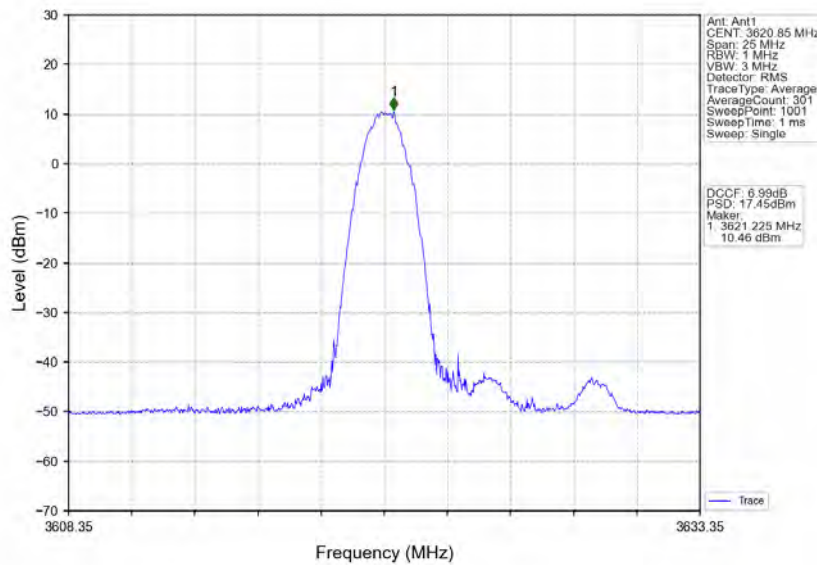
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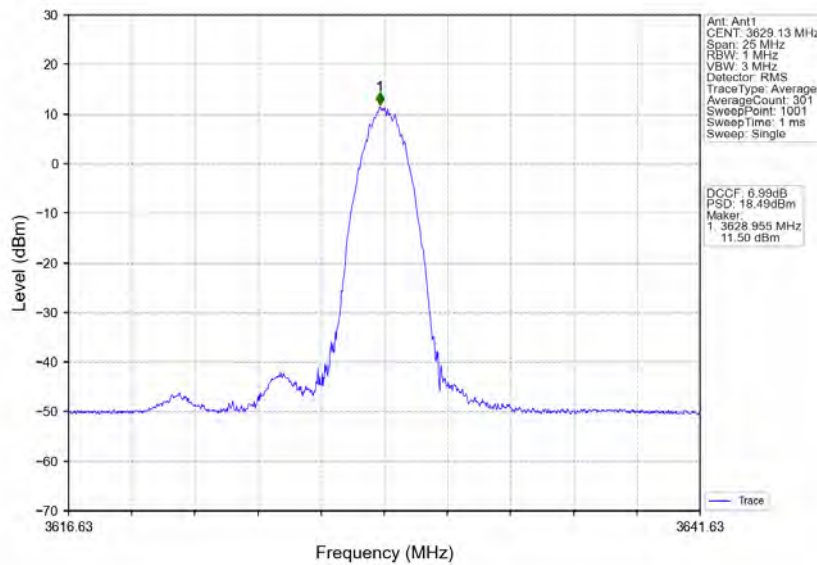
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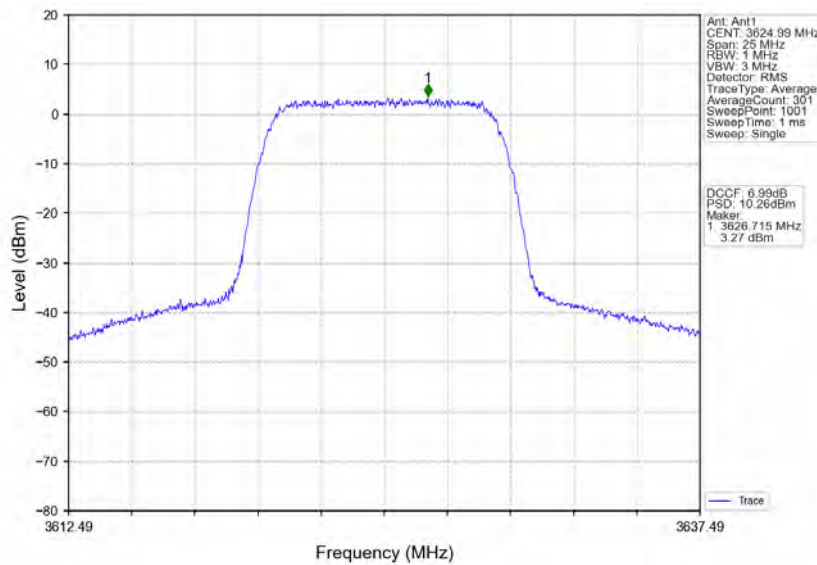
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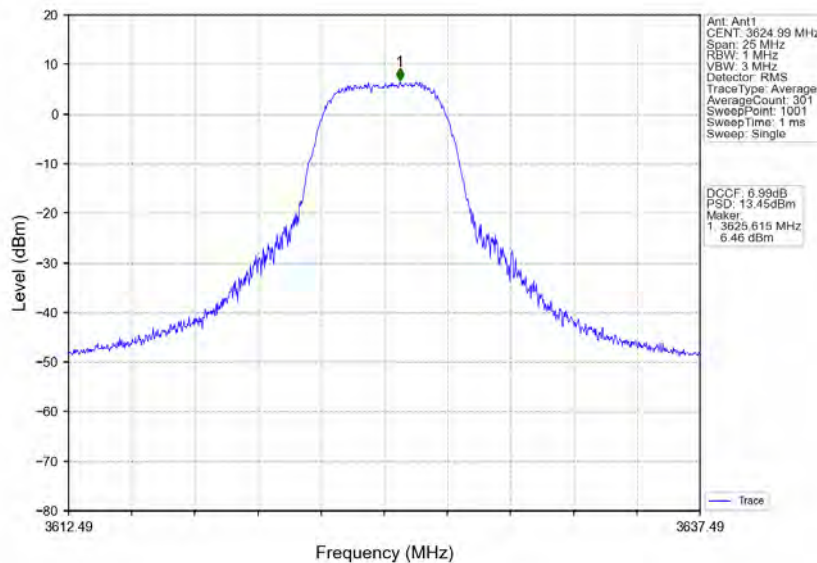
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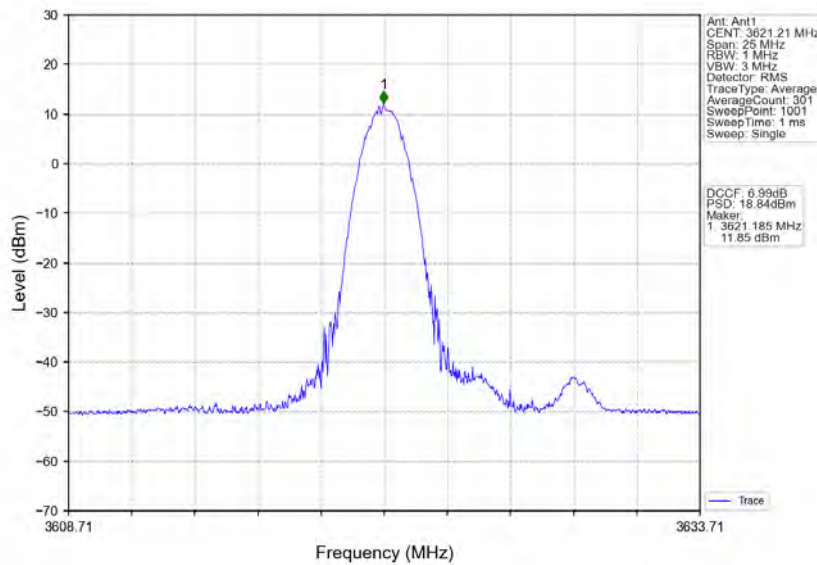
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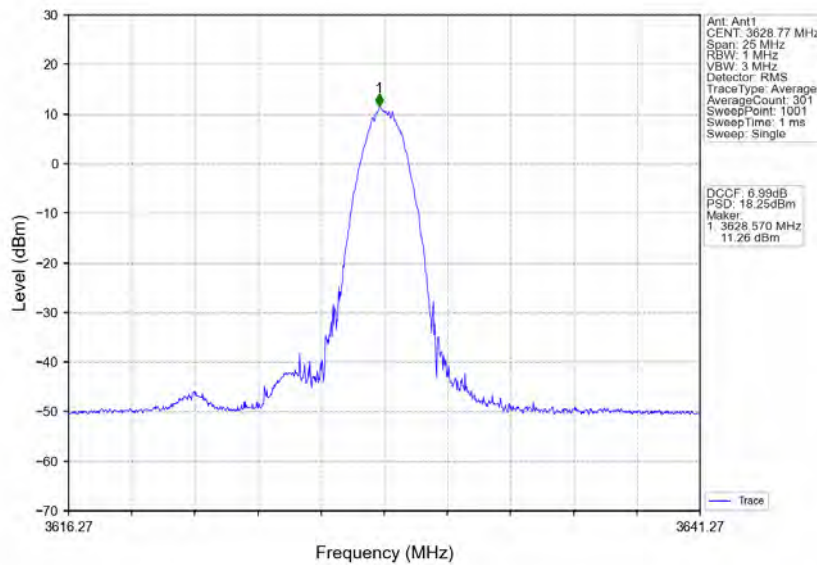
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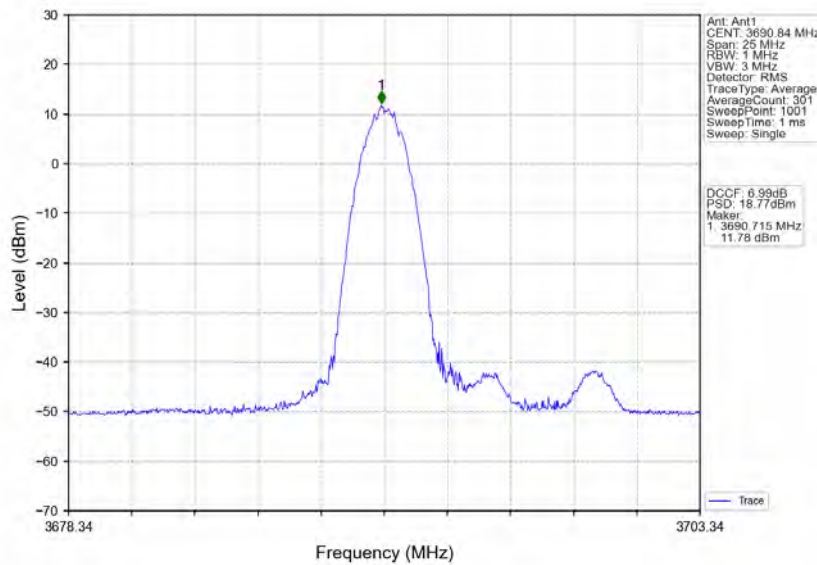
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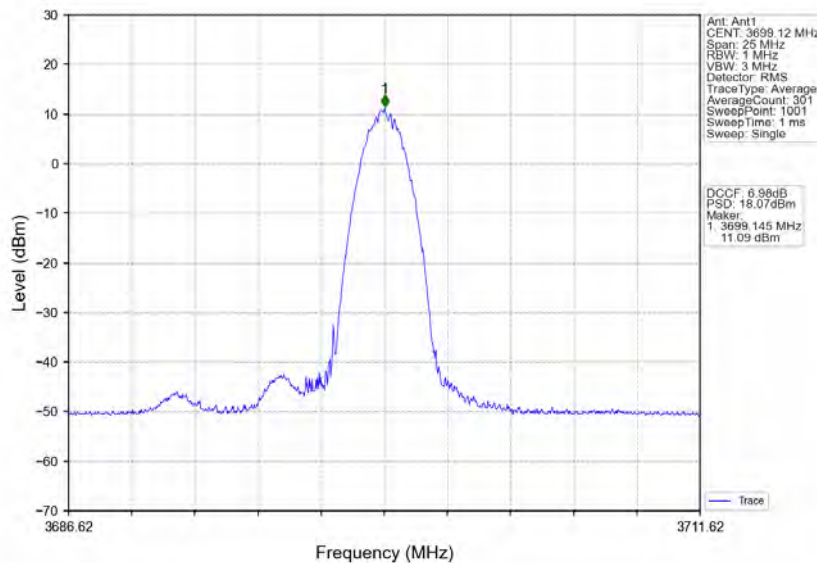
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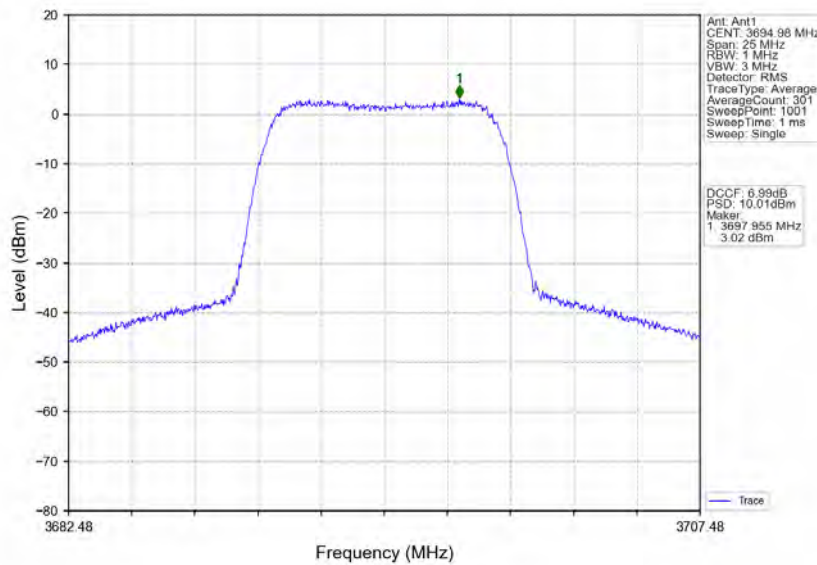
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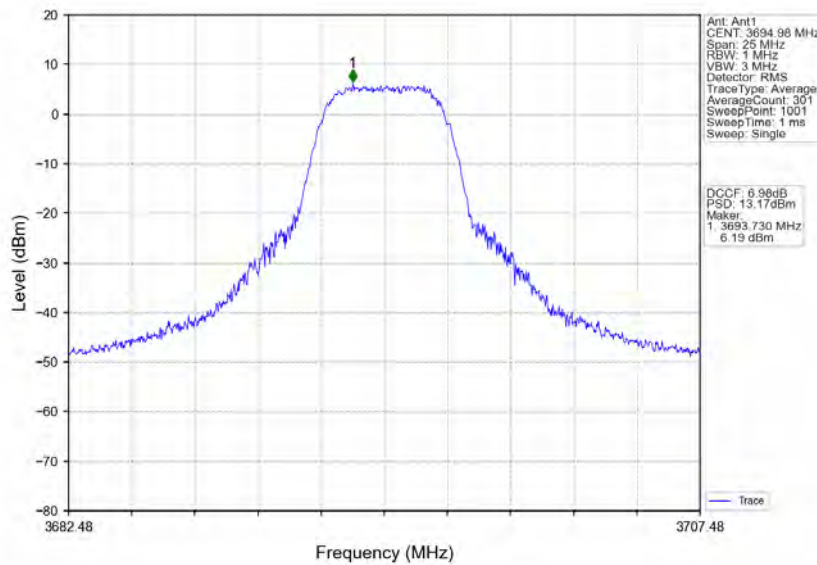
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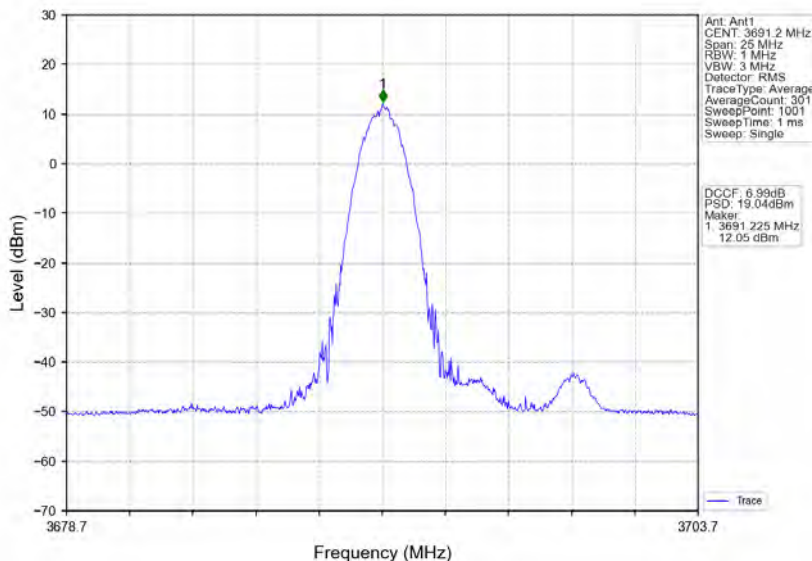
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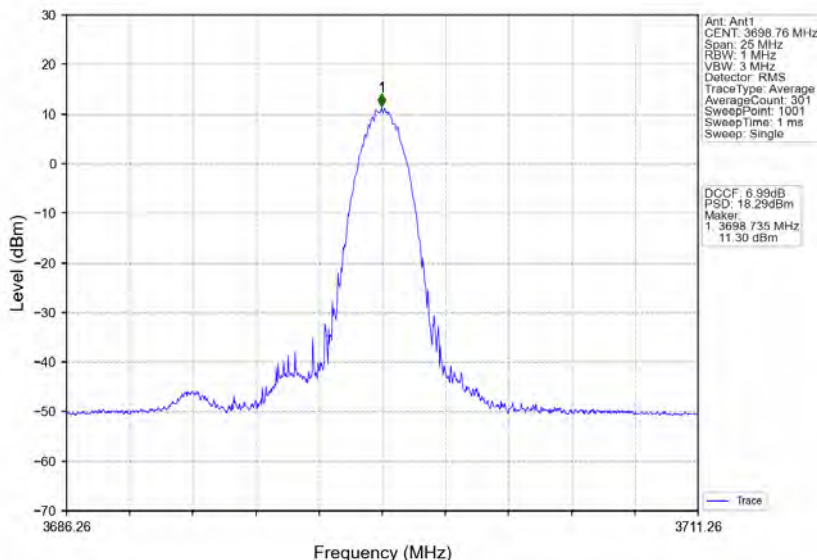
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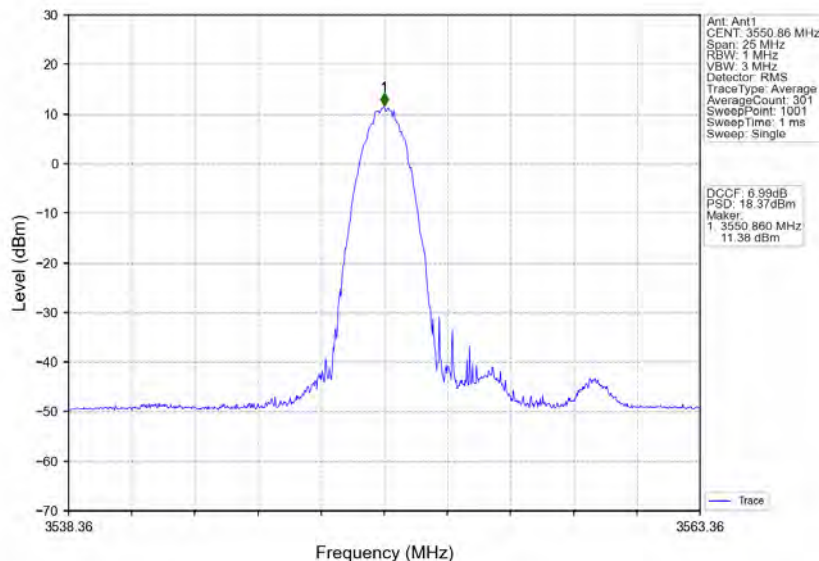
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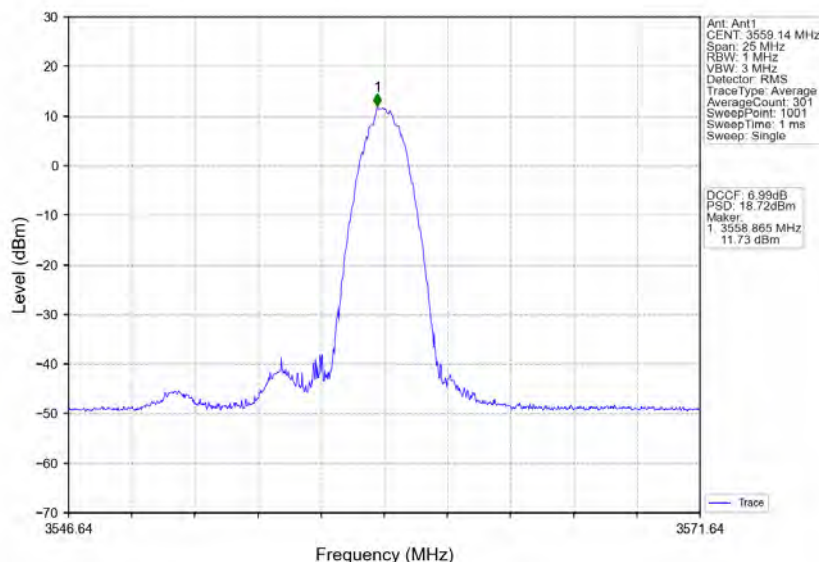
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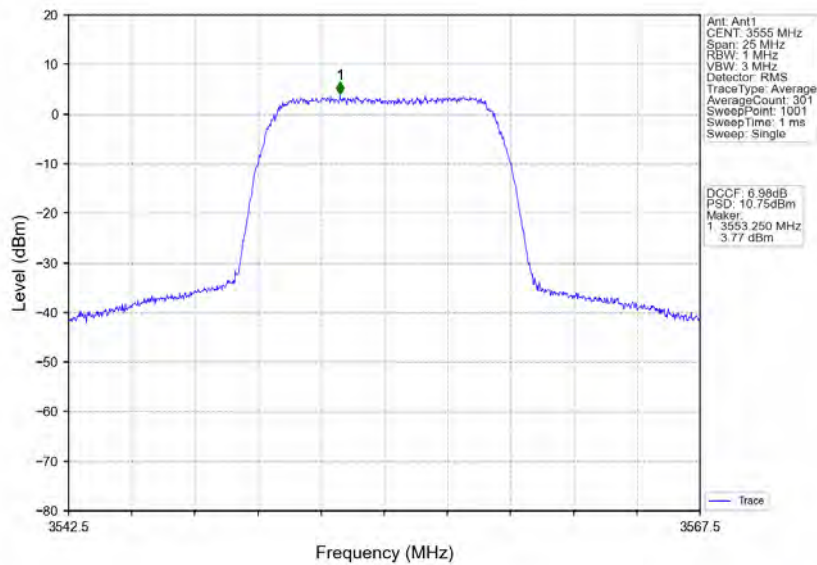
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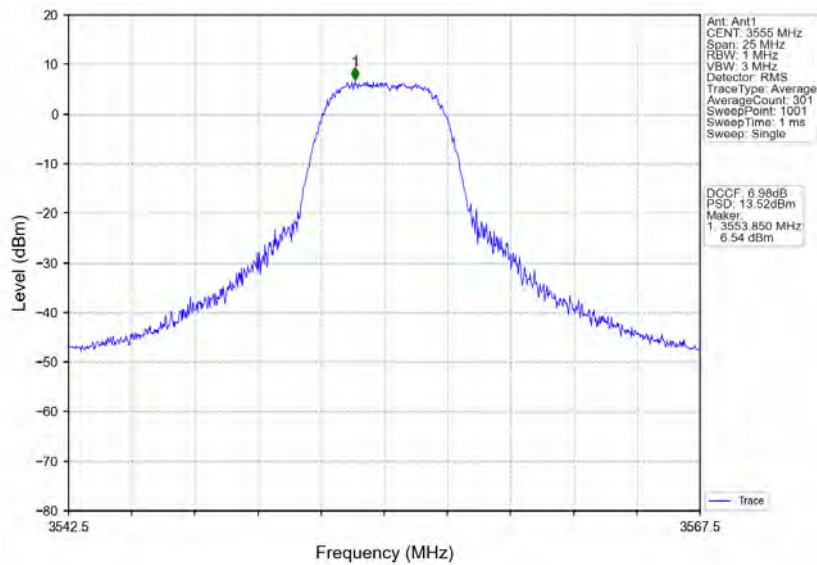
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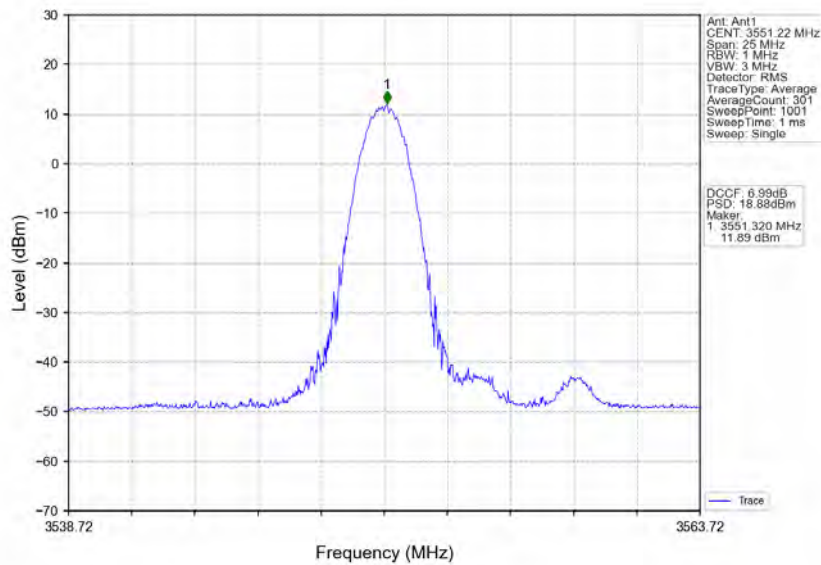
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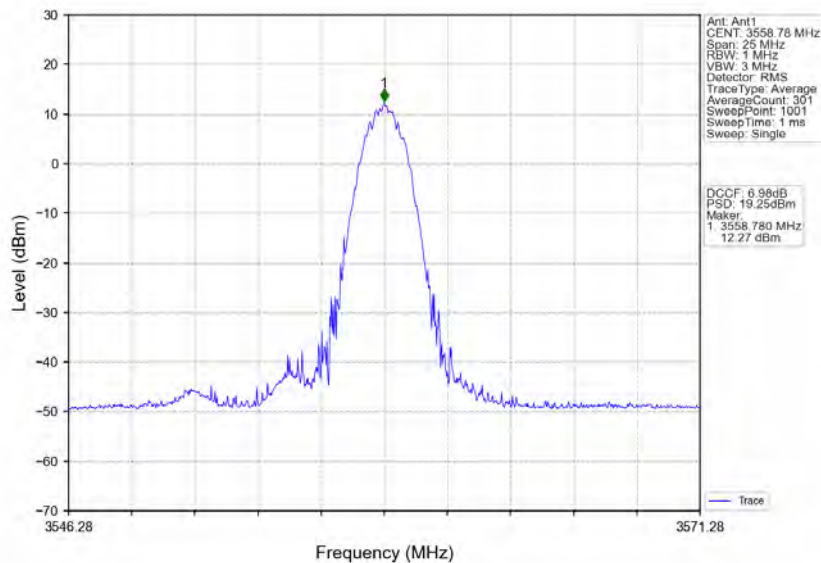
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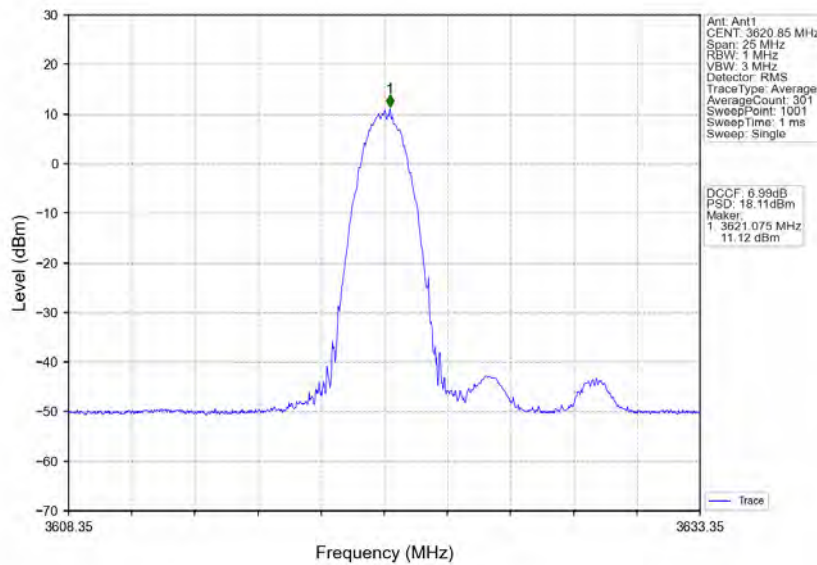
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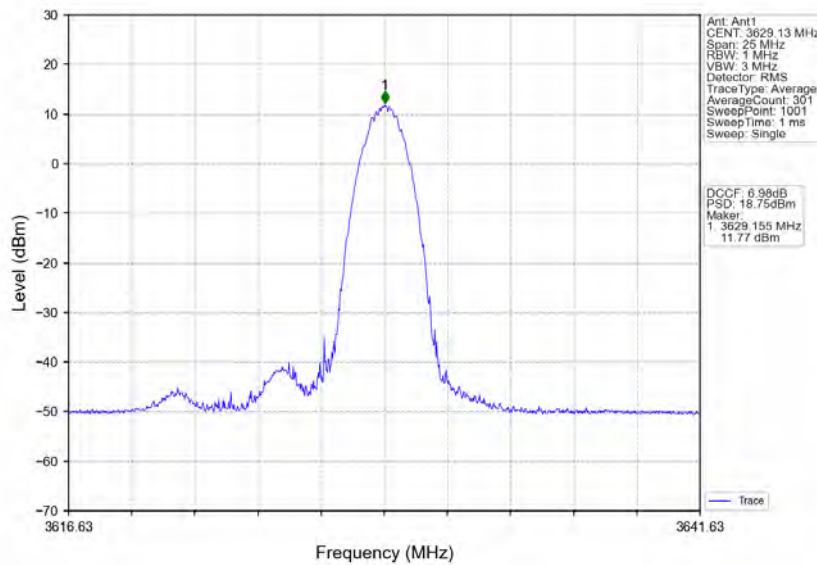
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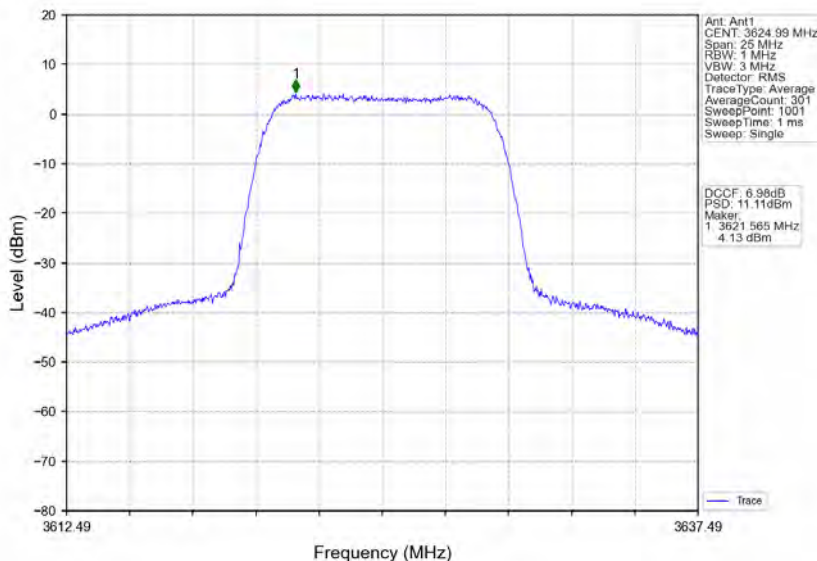
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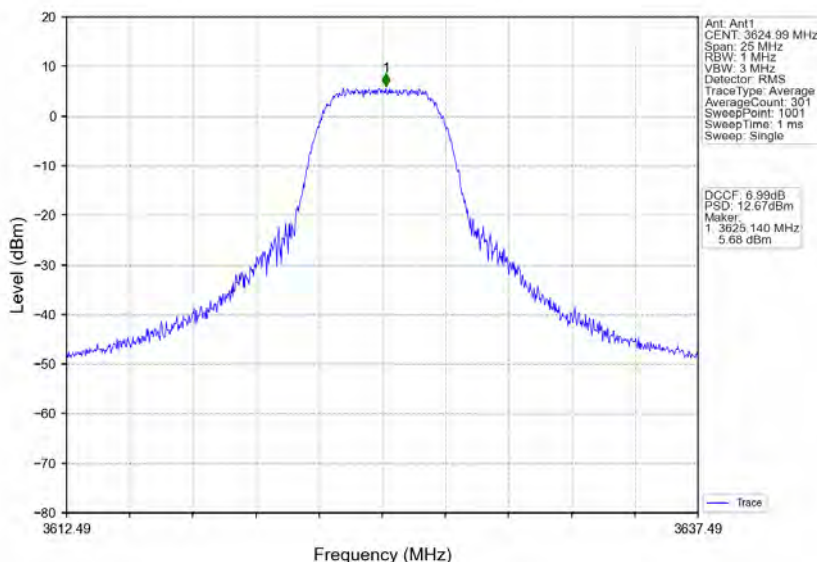
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n78d\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM 16 QAM\_3624.99MHz\_Outer\_Full



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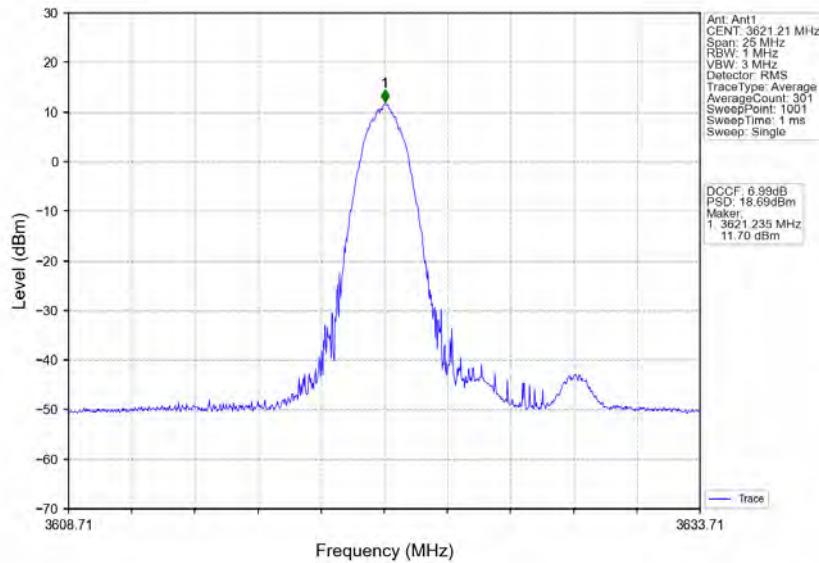
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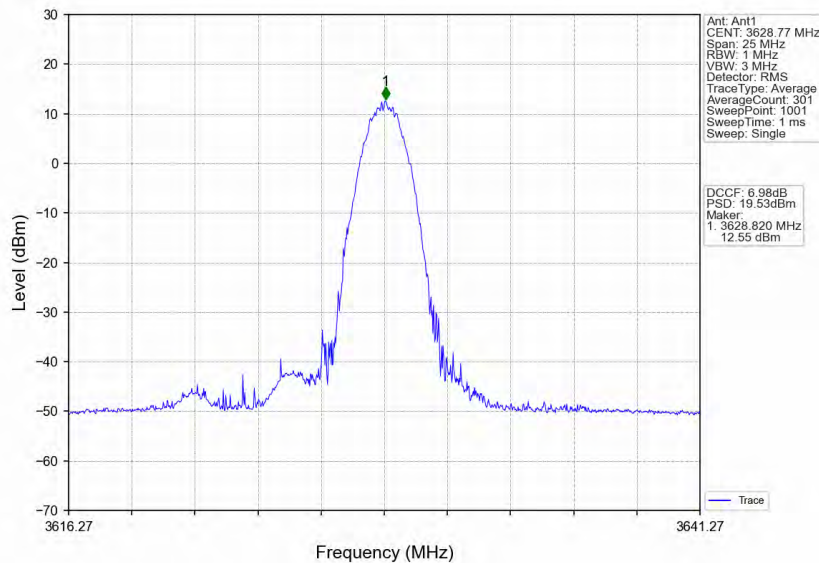
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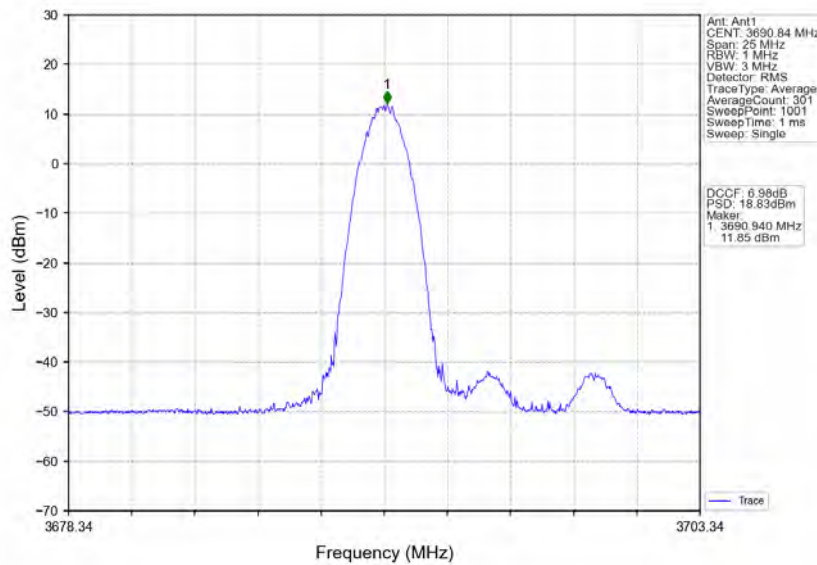
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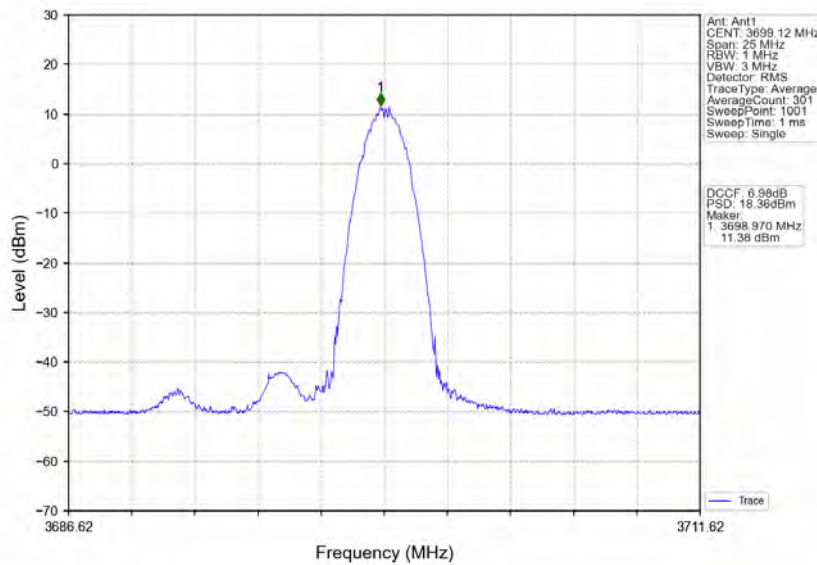
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n78d\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM 16 QAM\_3694.98MHz\_Edge\_1RB\_Left



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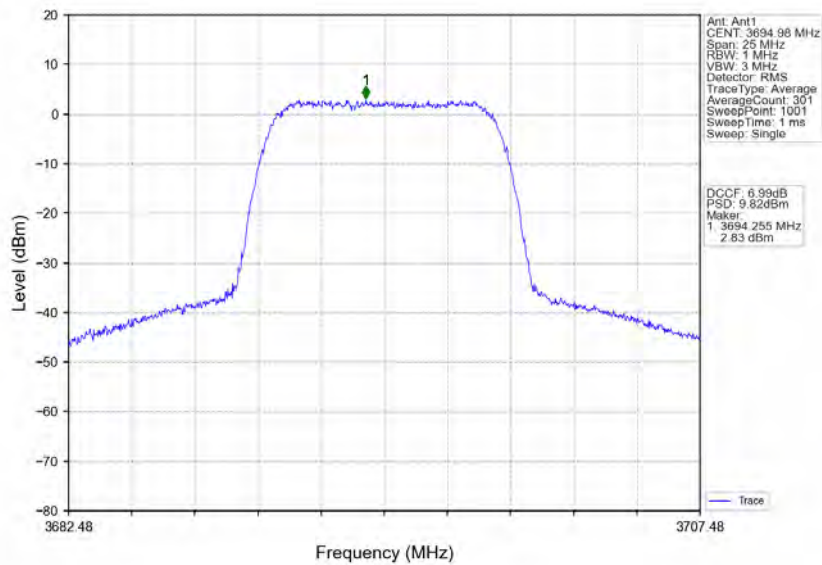
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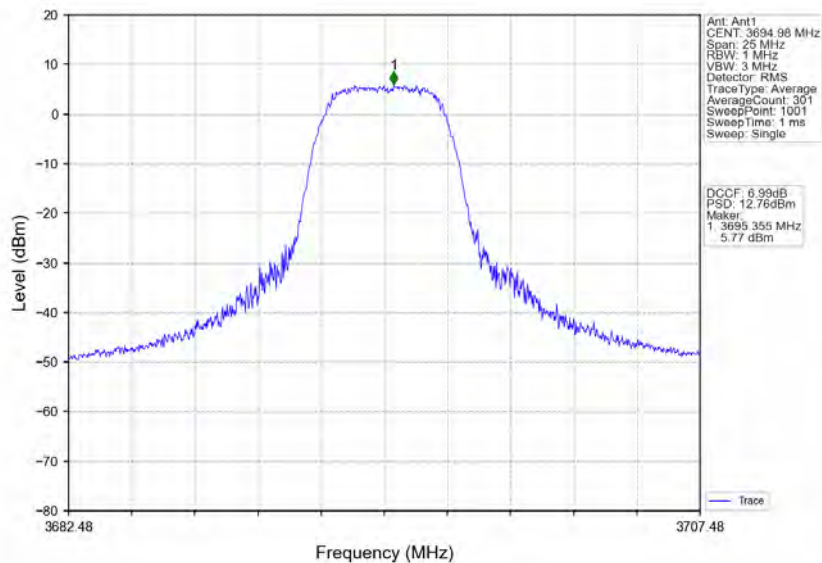
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n78d\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM 16 QAM\_3694.98MHz\_Outer\_Full



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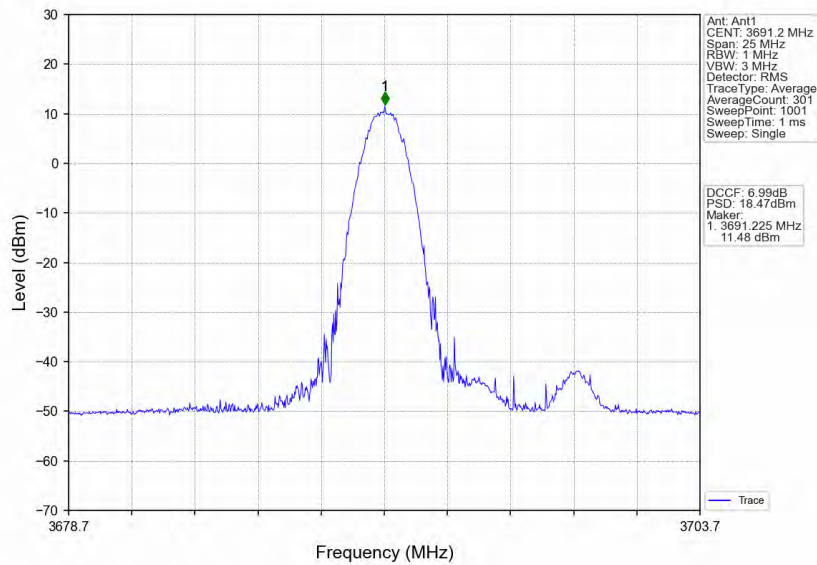
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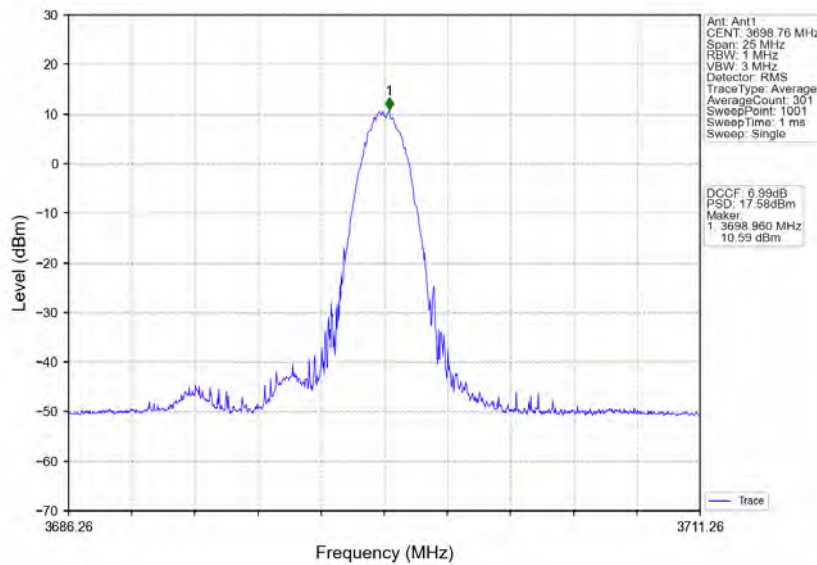
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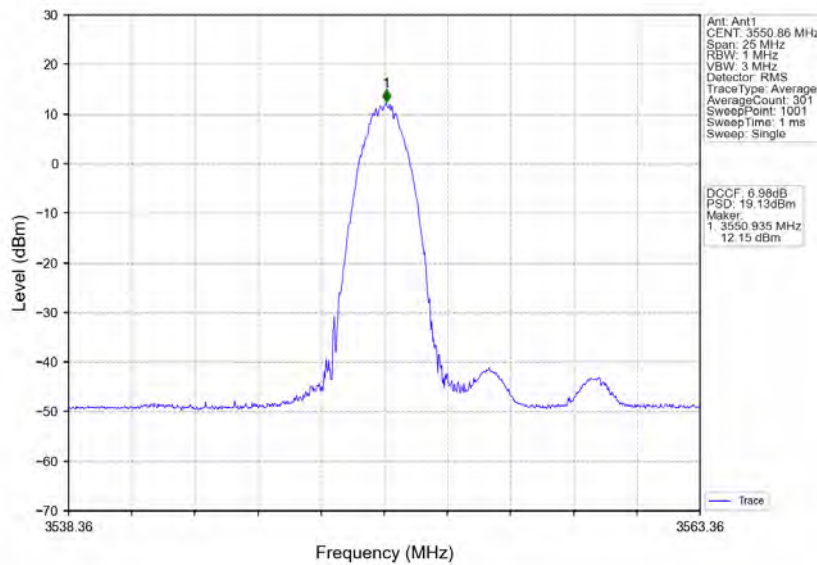
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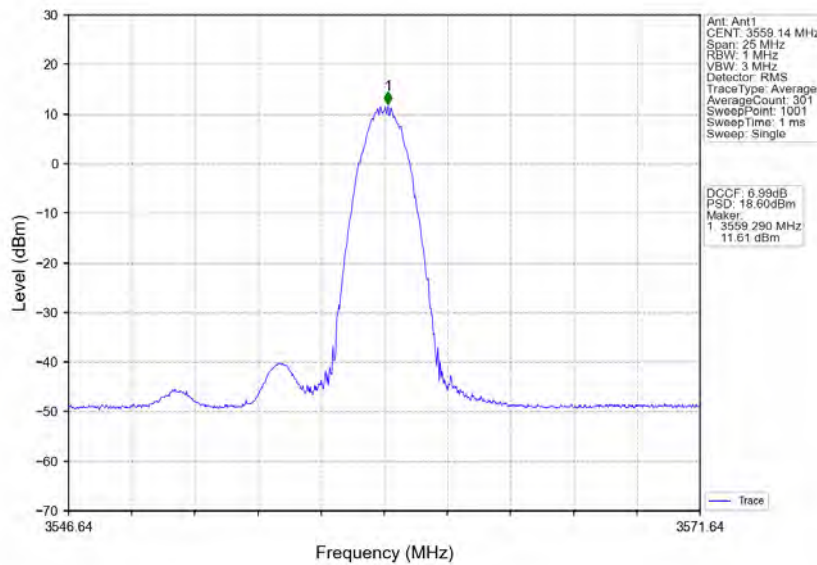
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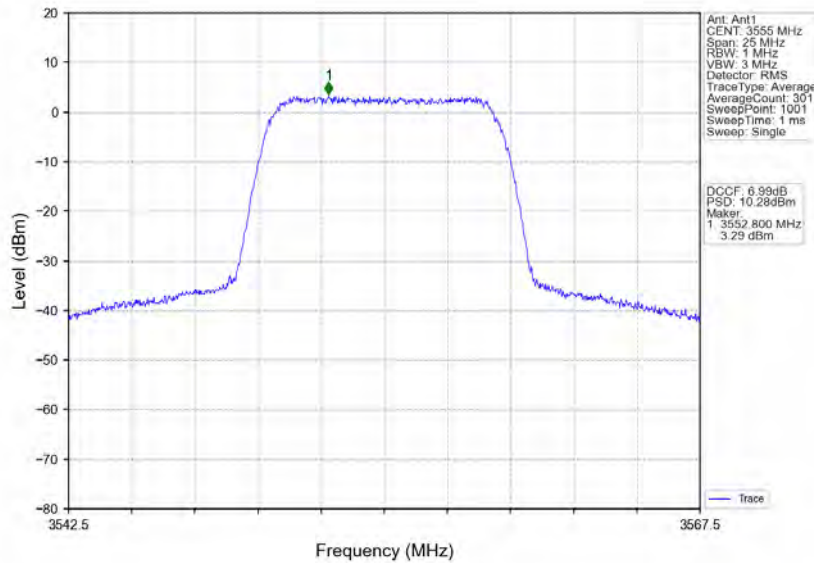
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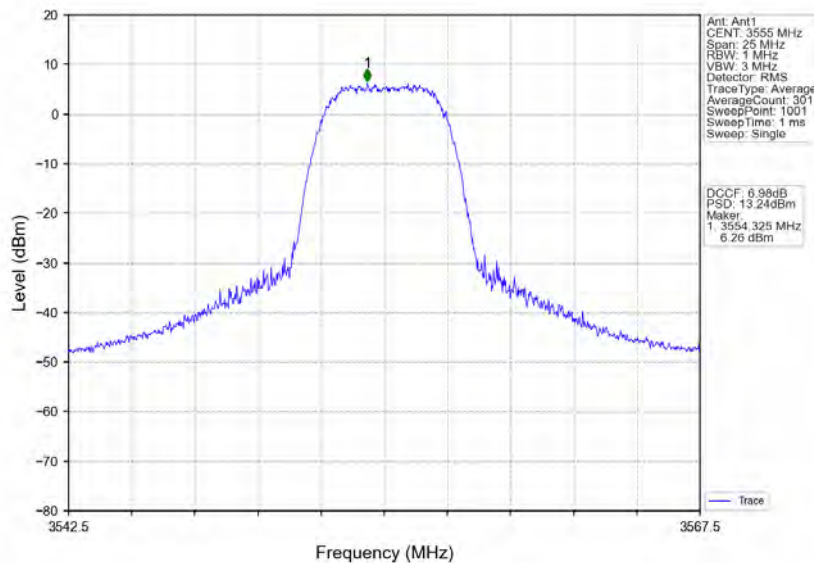
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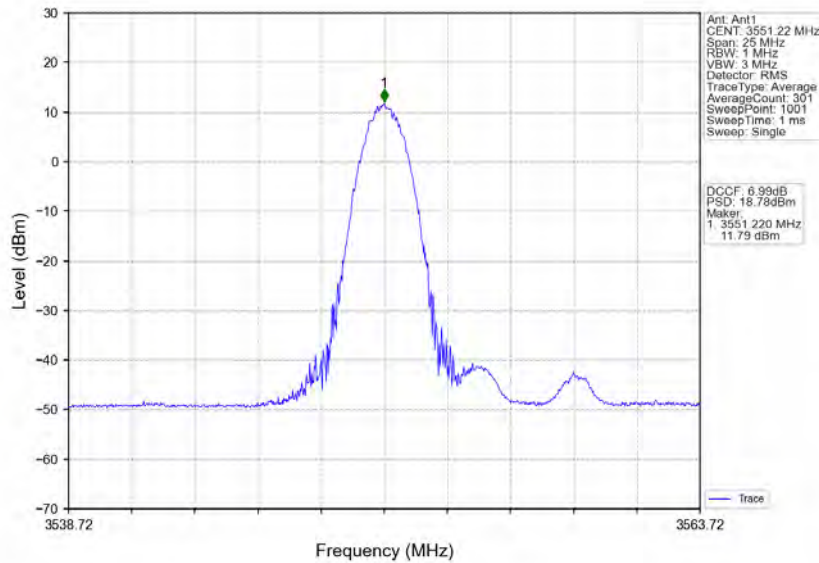
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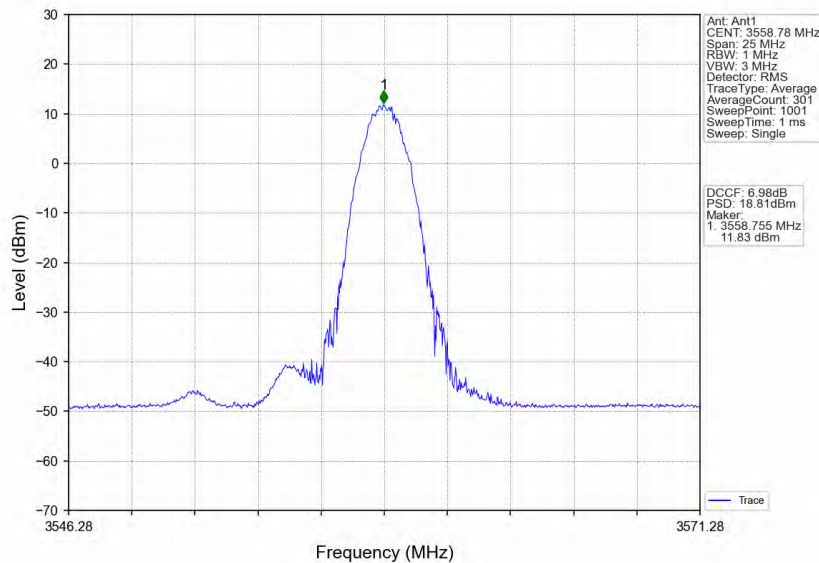
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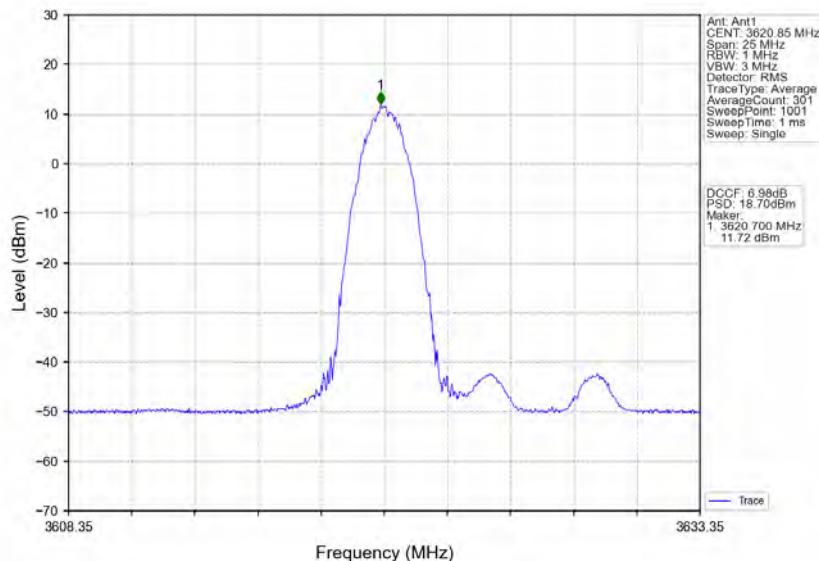
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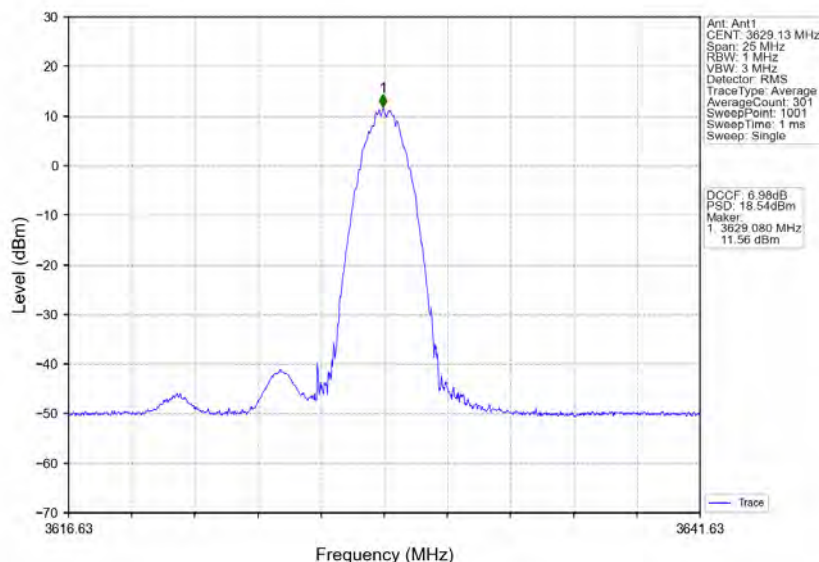
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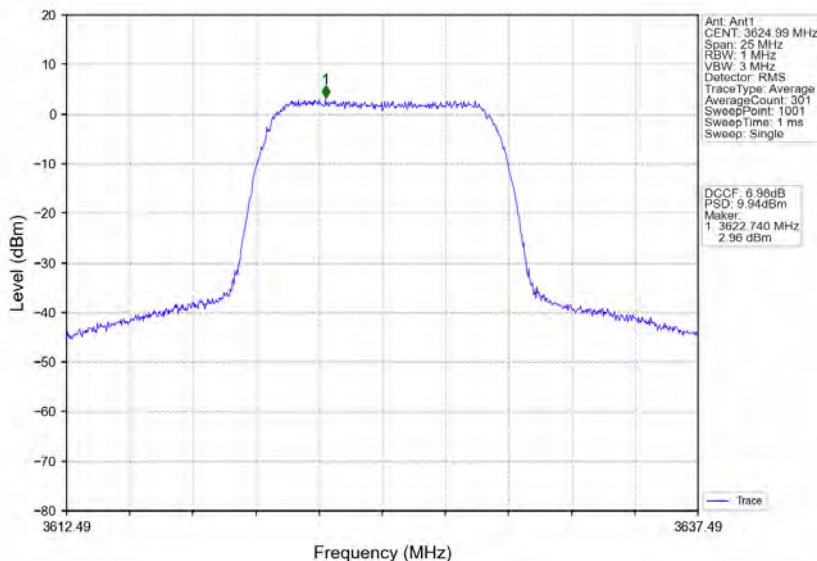
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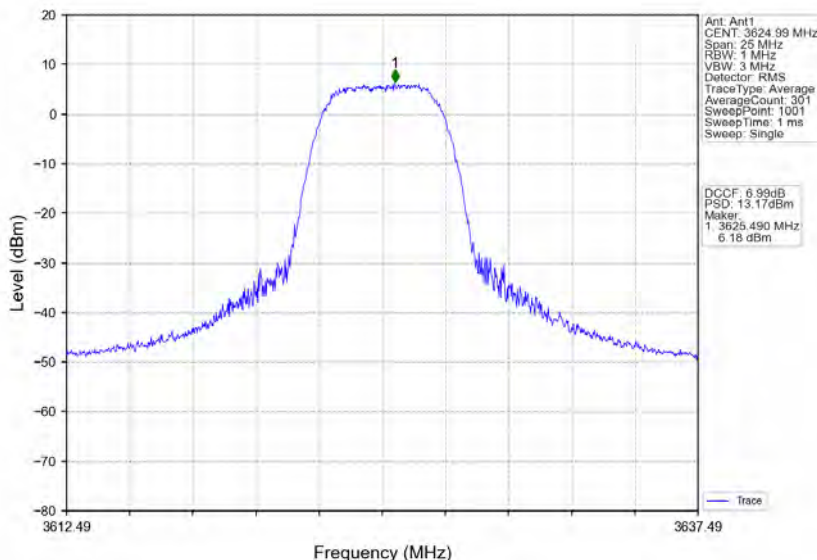
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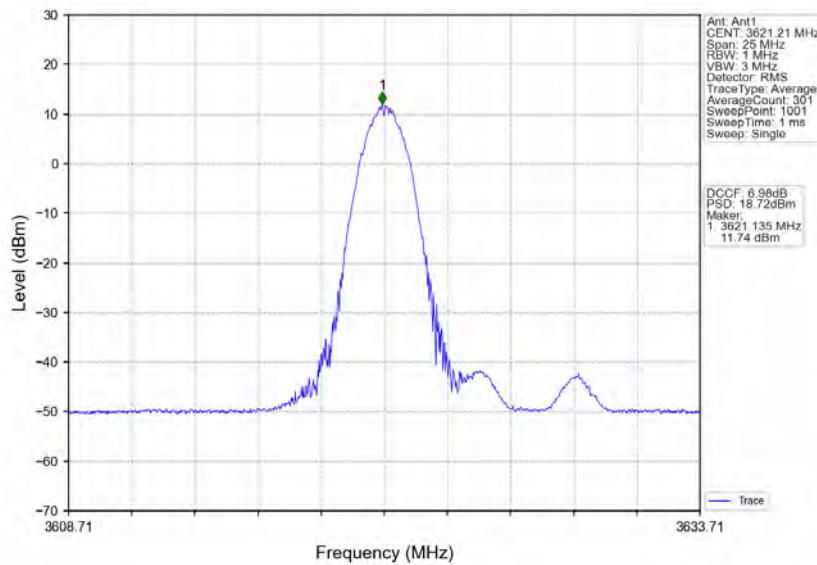
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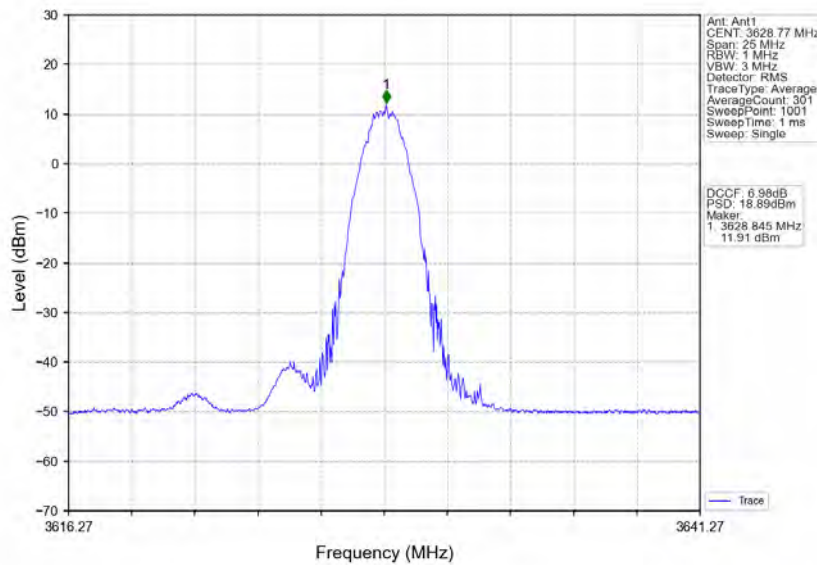
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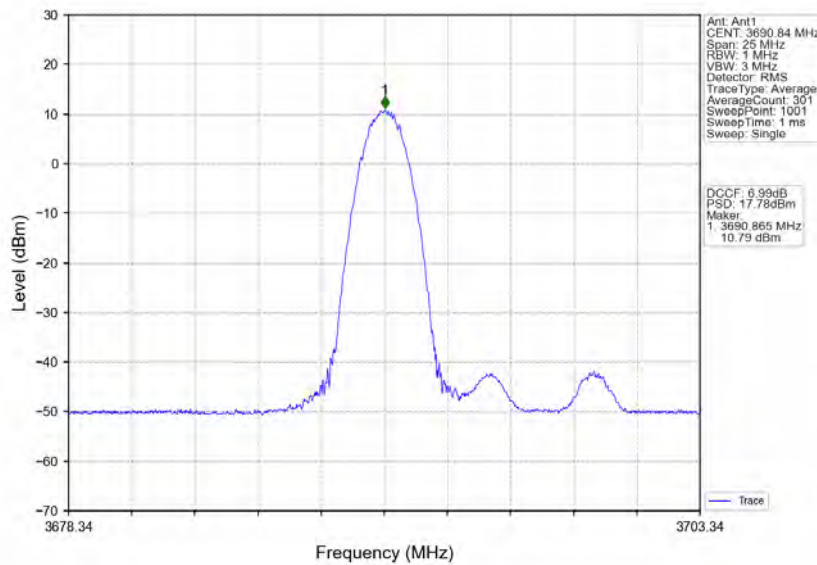
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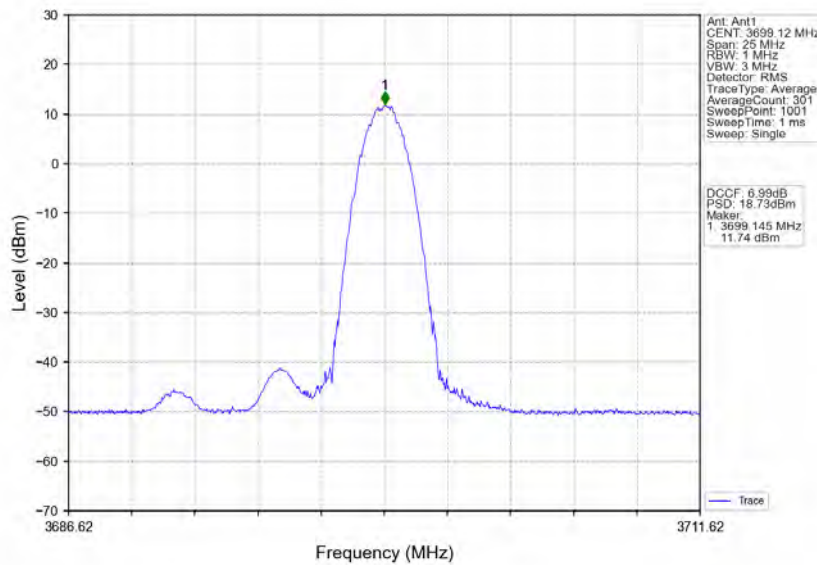
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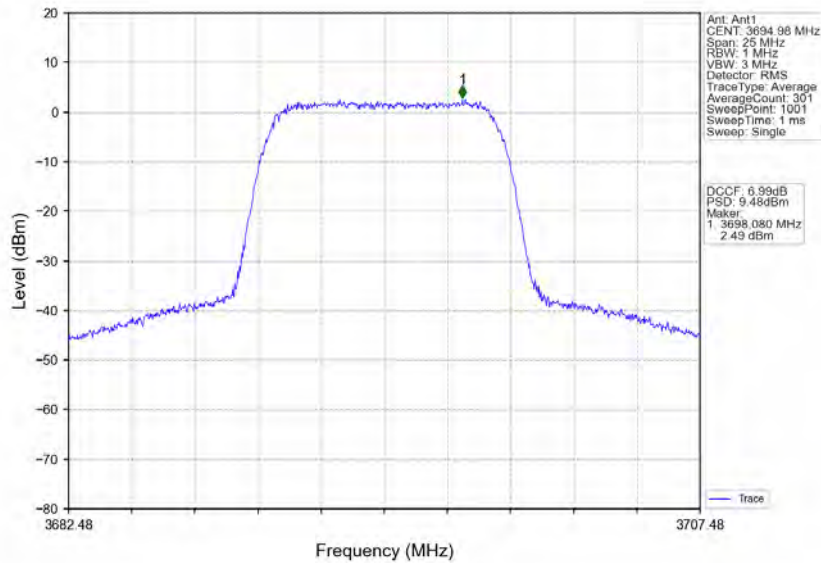
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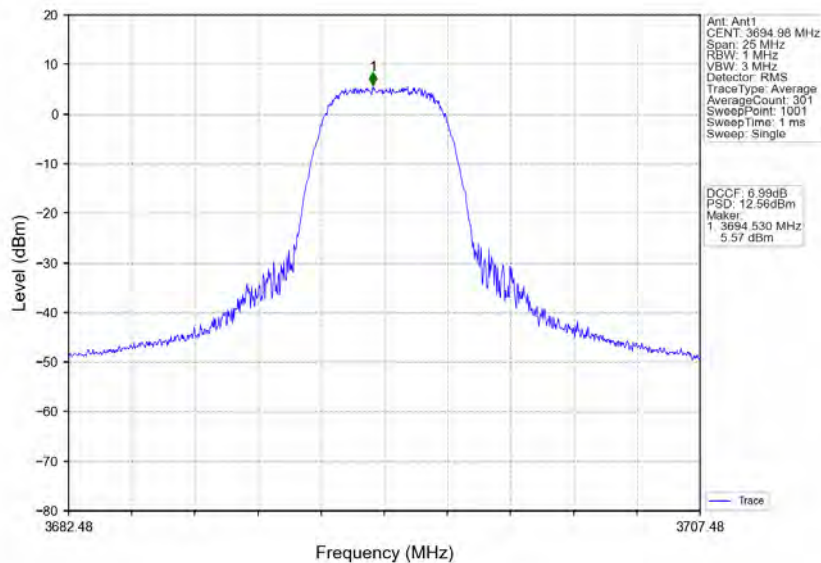
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n78d\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM 64 QAM\_3694.98MHz\_Outer\_Full



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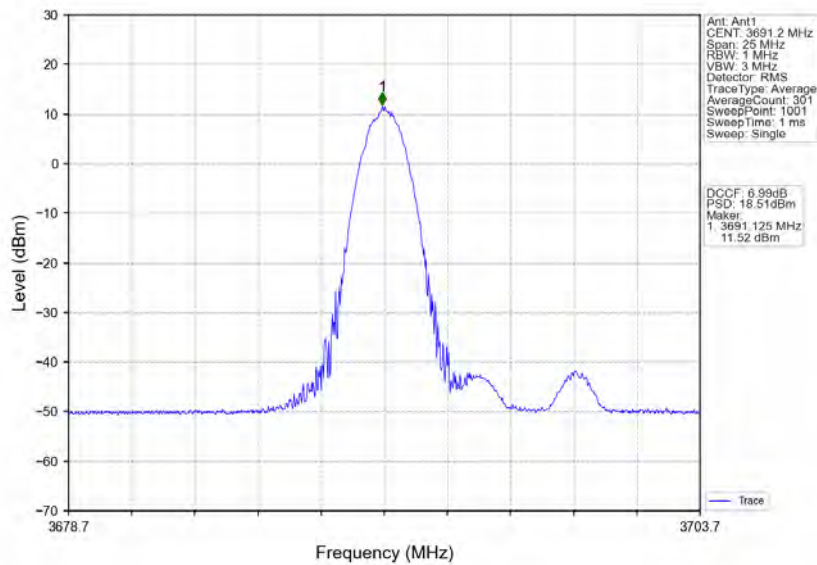
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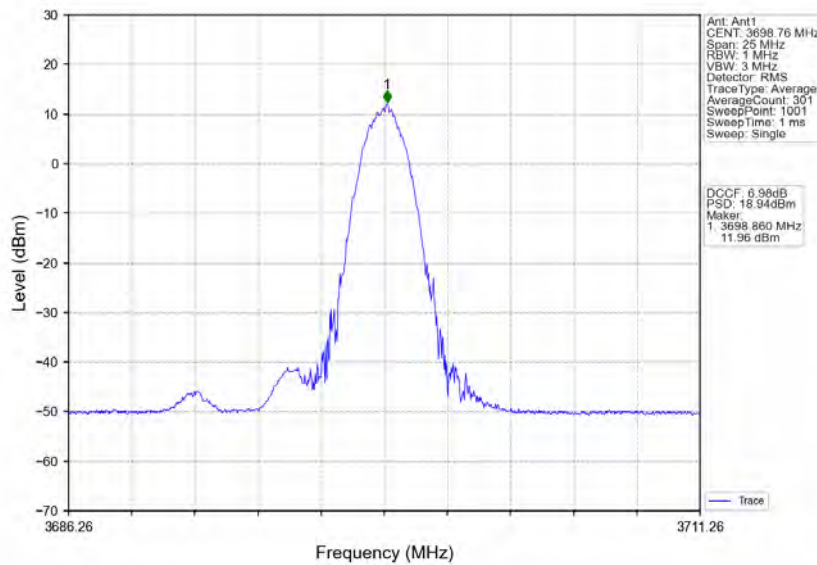
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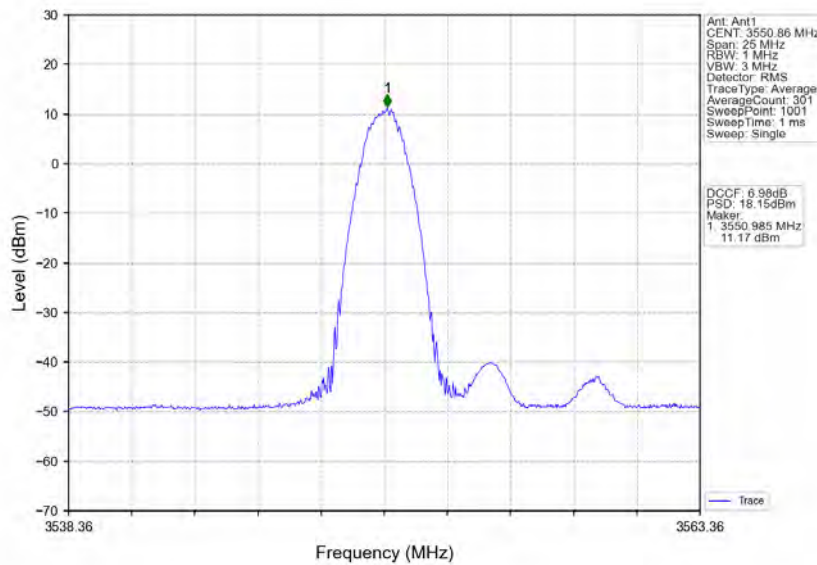
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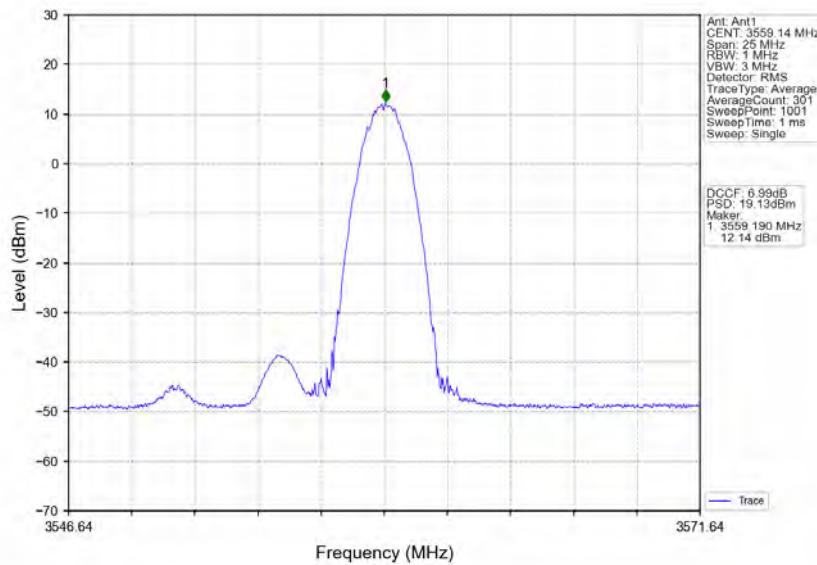
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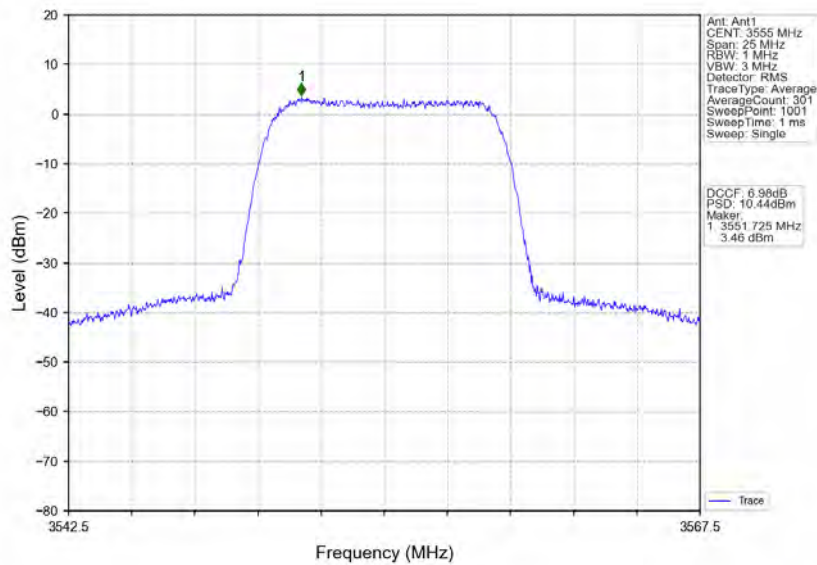
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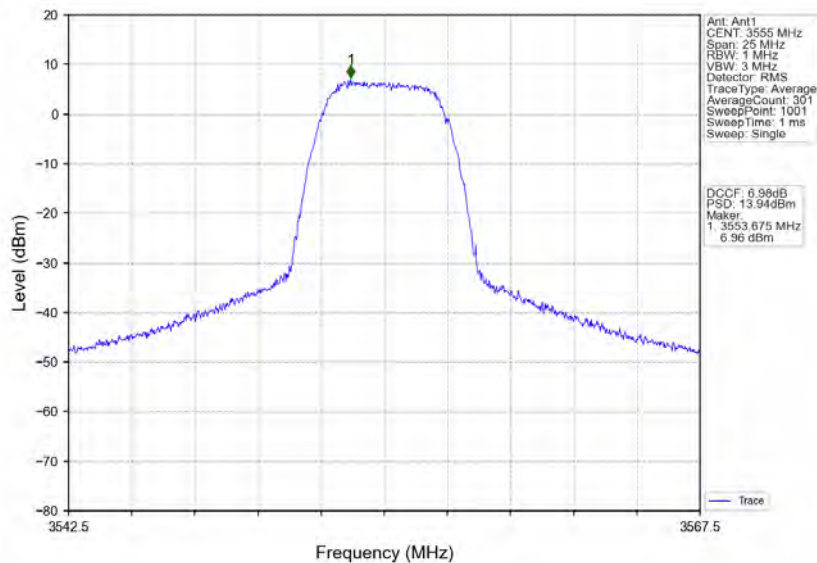
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n78d\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM\_256\_QAM\_3555MHz\_Outer\_Full



n78d\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM\_256\_QAM\_3555MHz\_Inner\_Full



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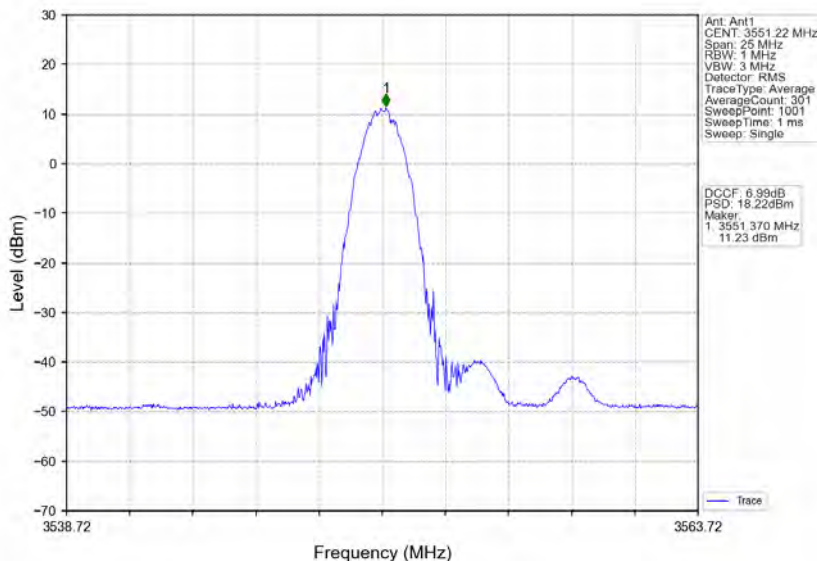
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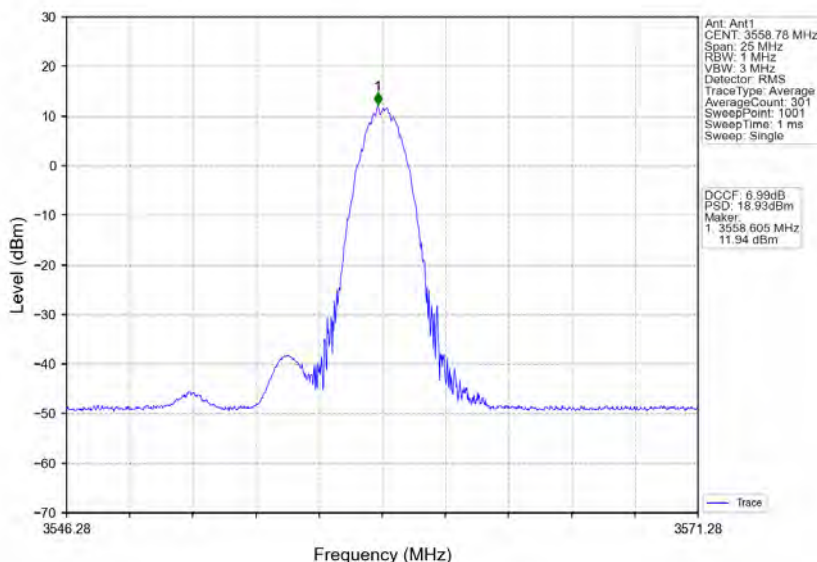
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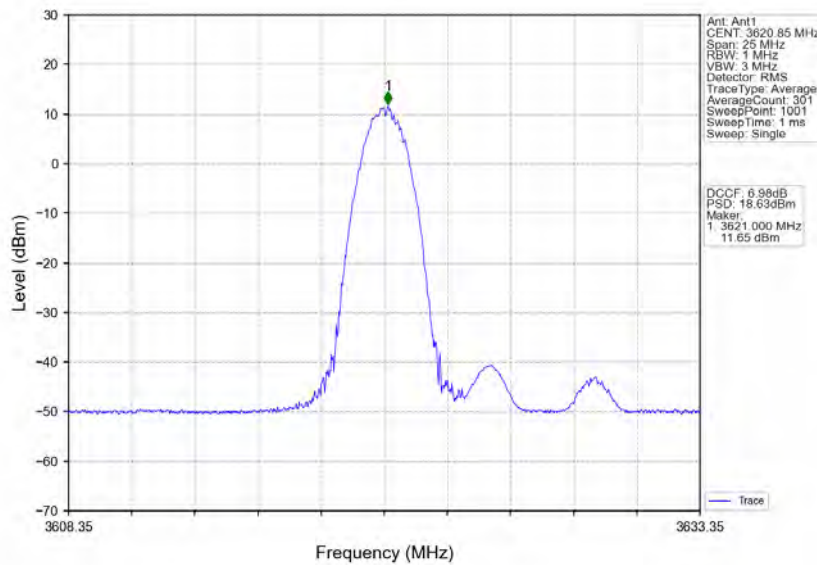
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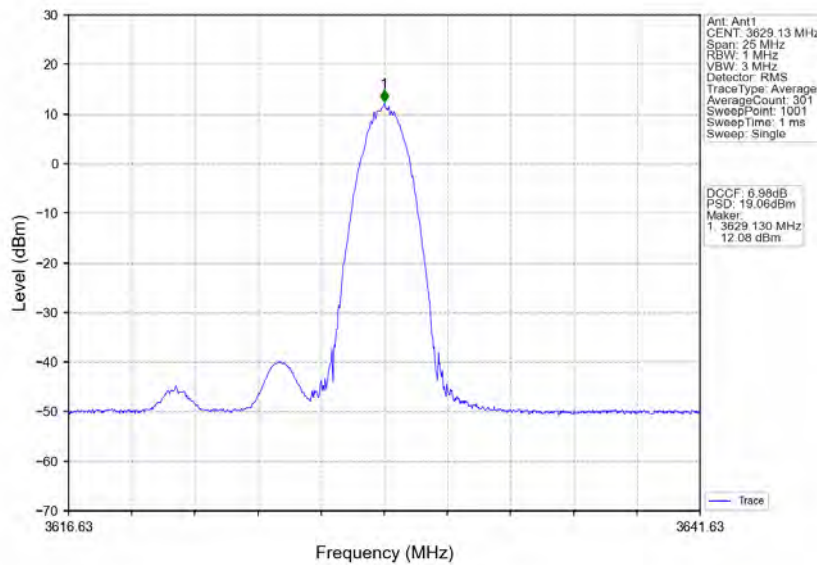
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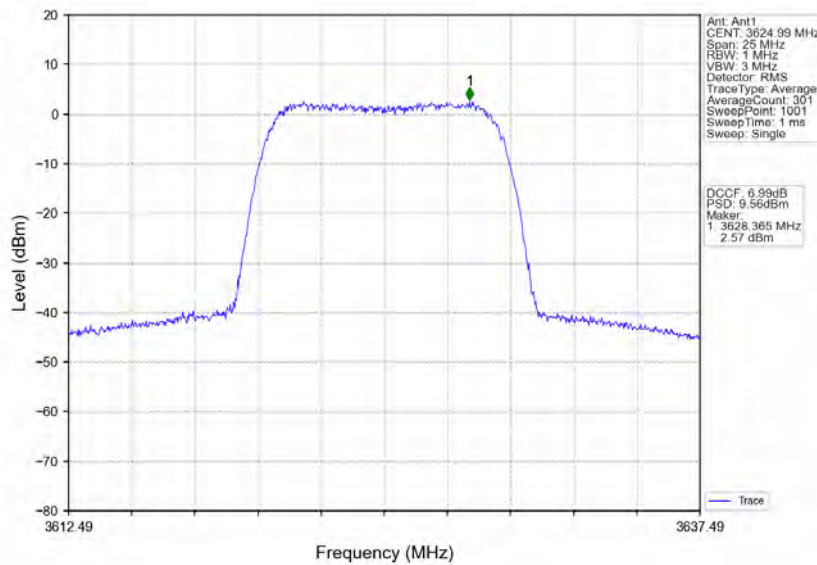
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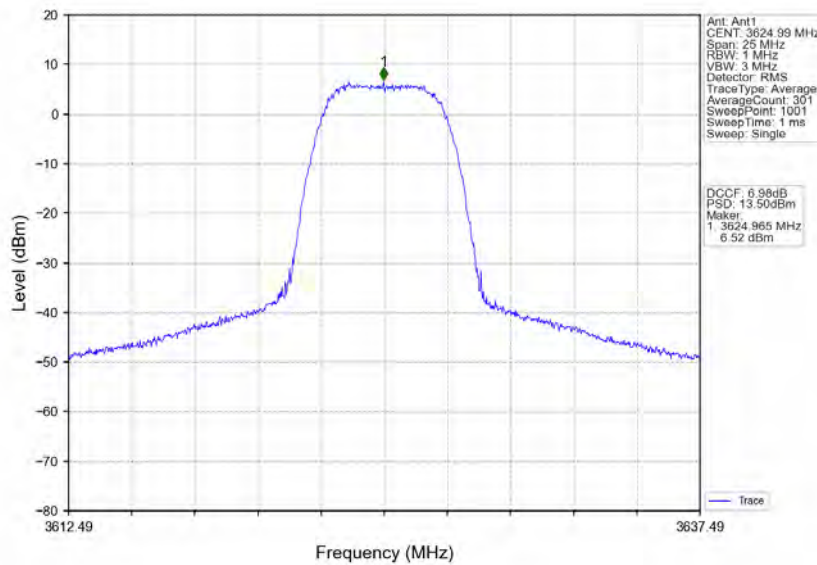
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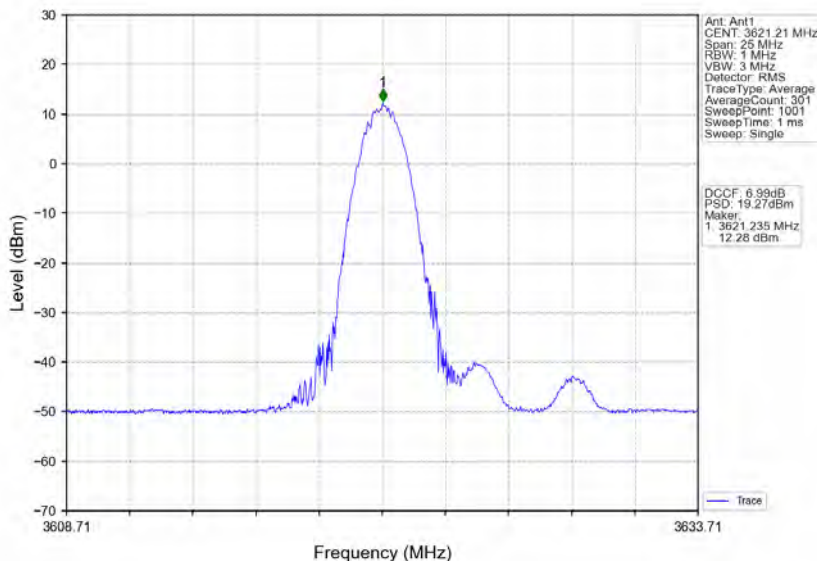
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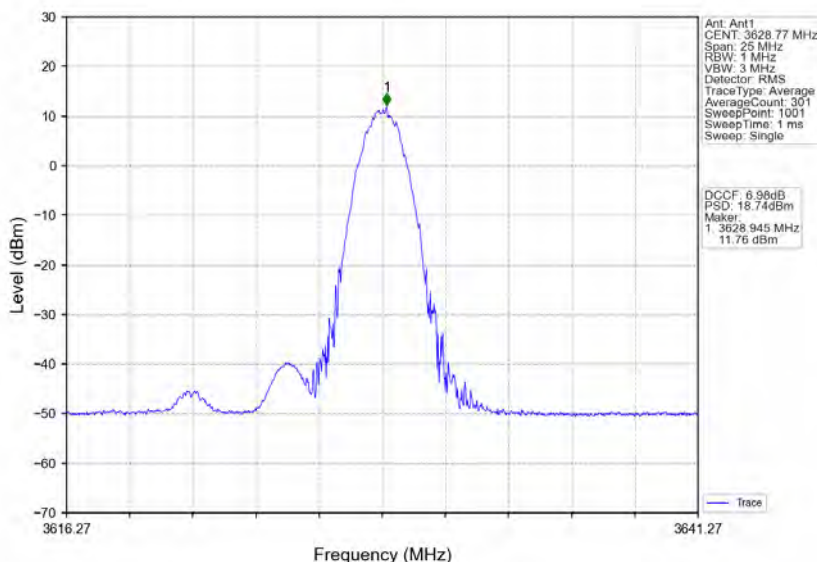
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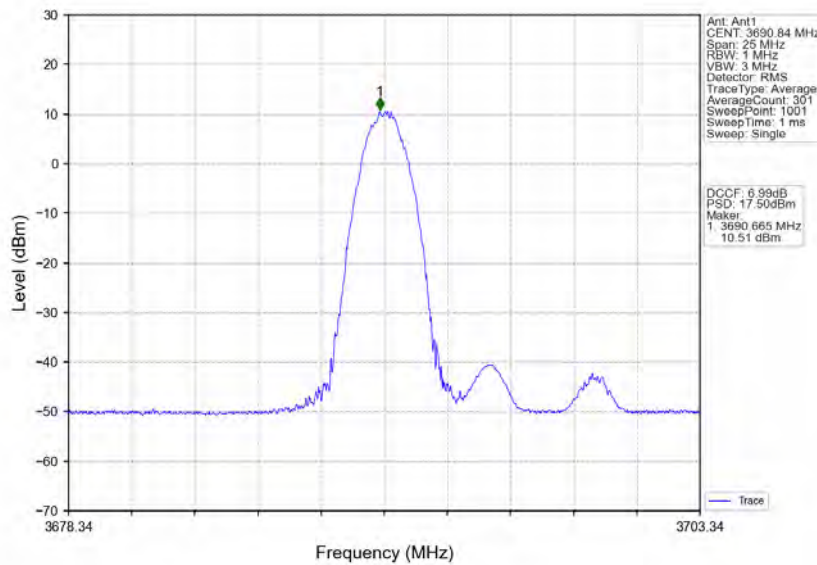
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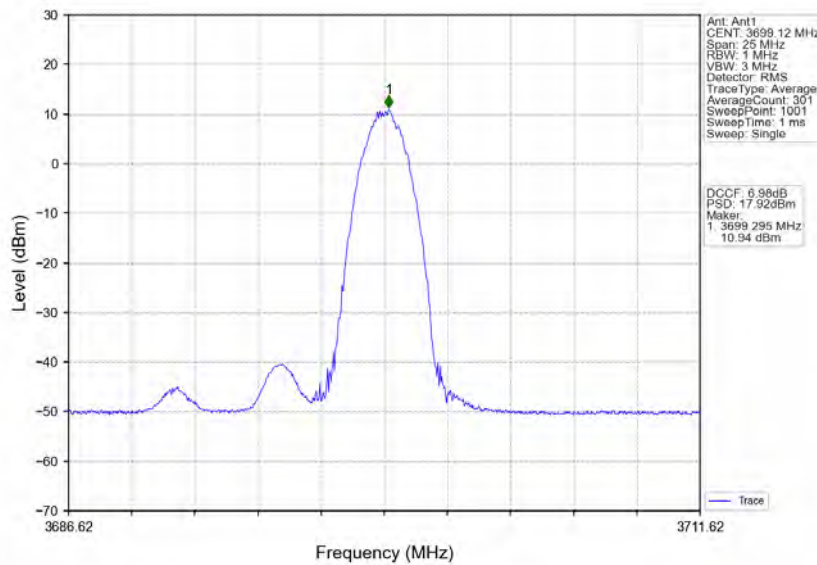
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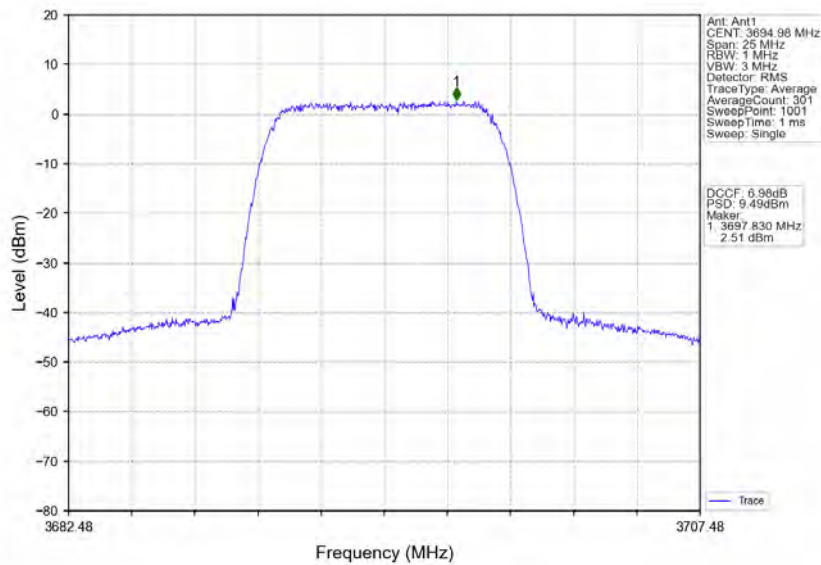
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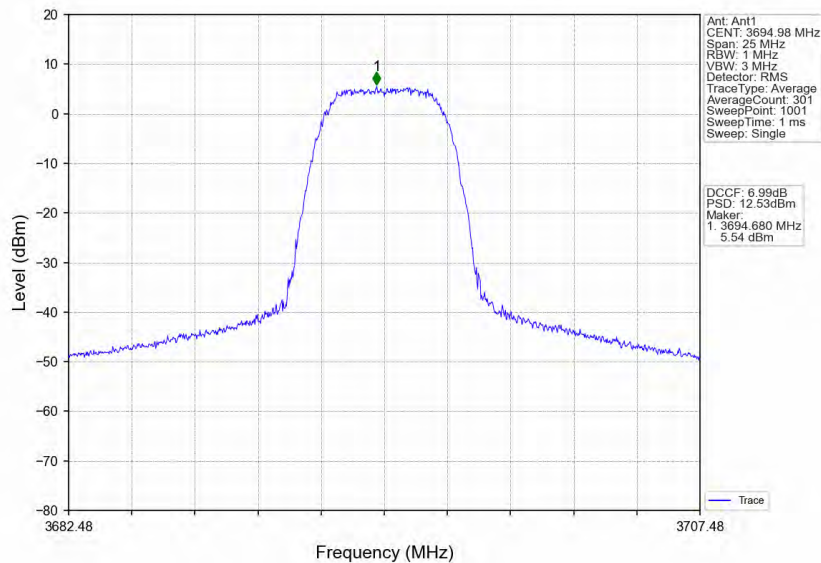
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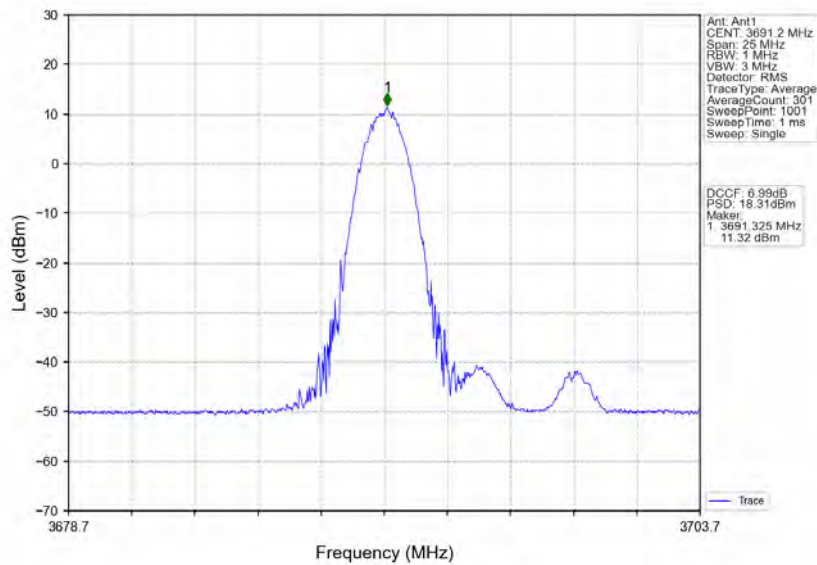
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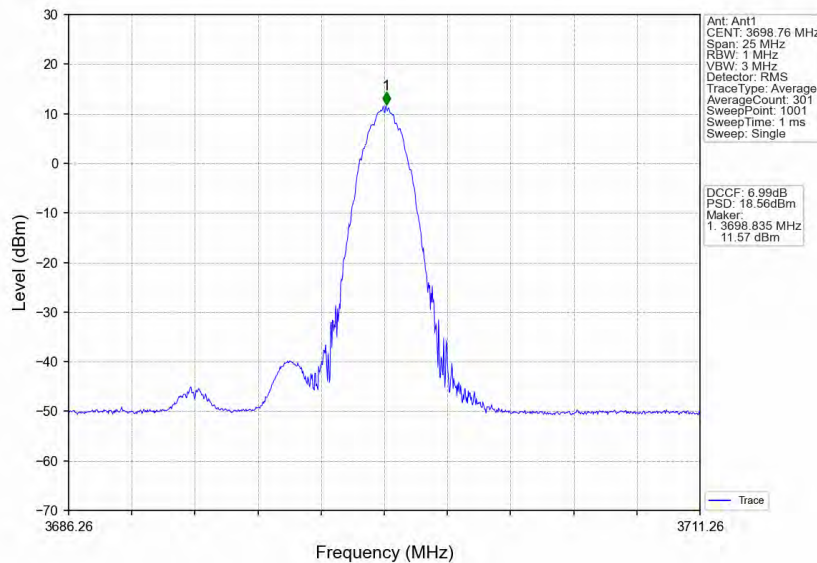
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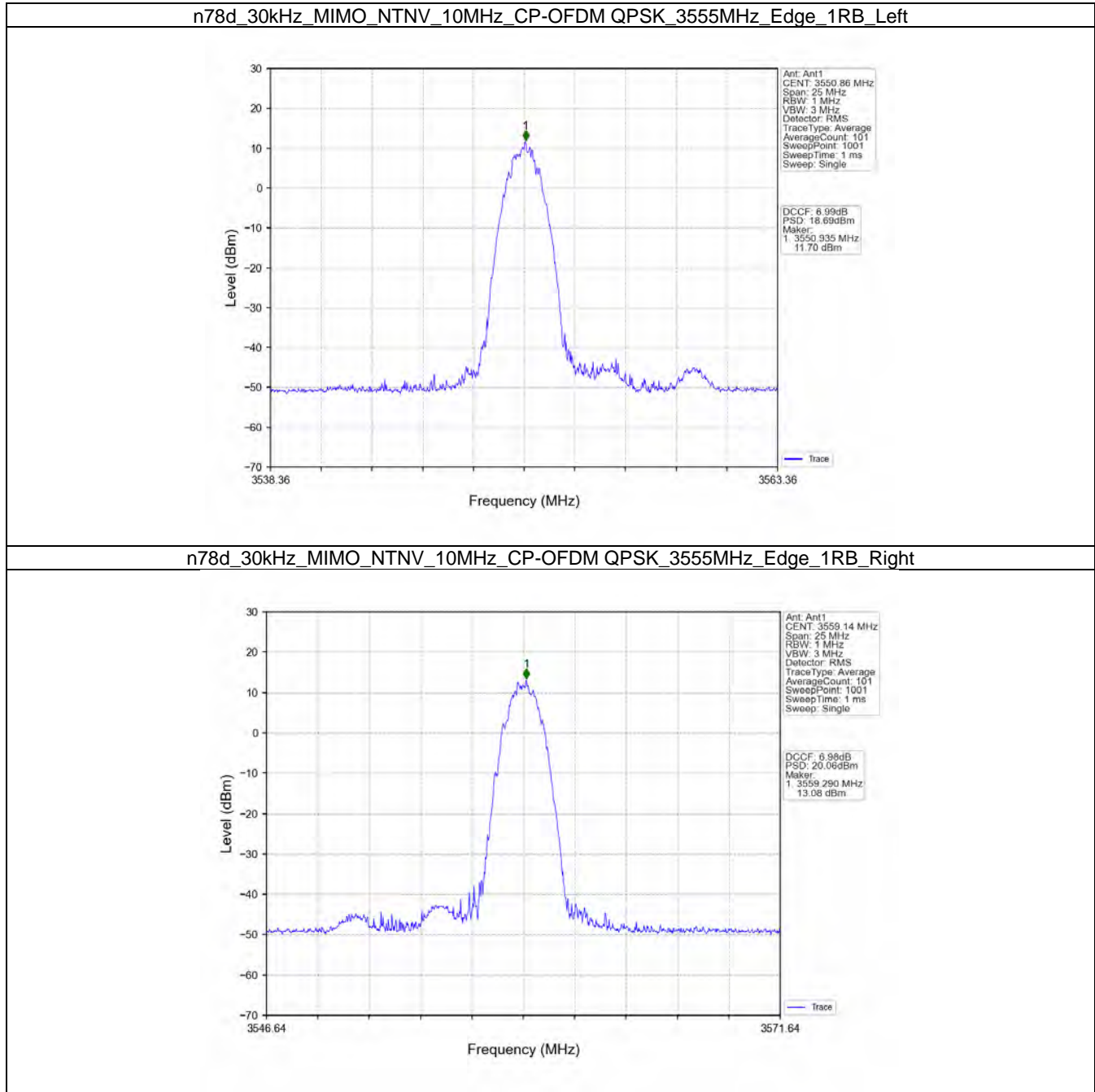
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2.3.3 Test Graph for ANT2



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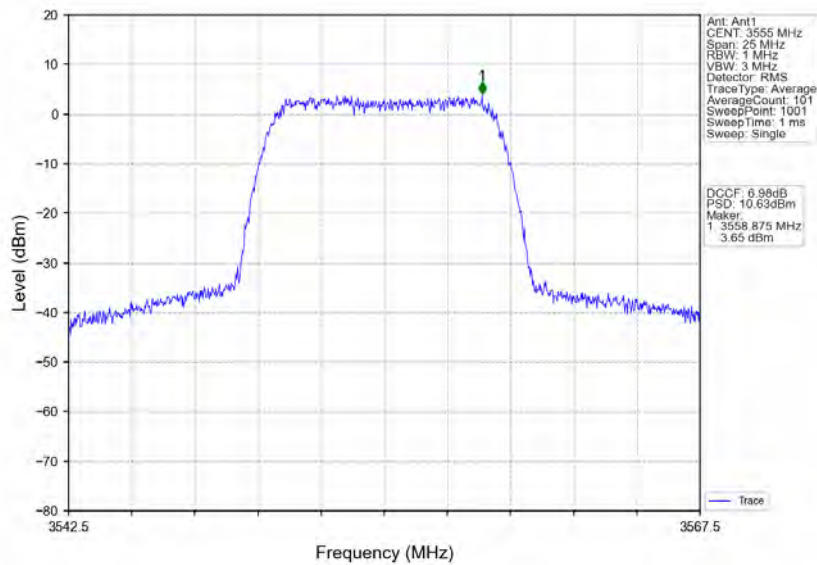
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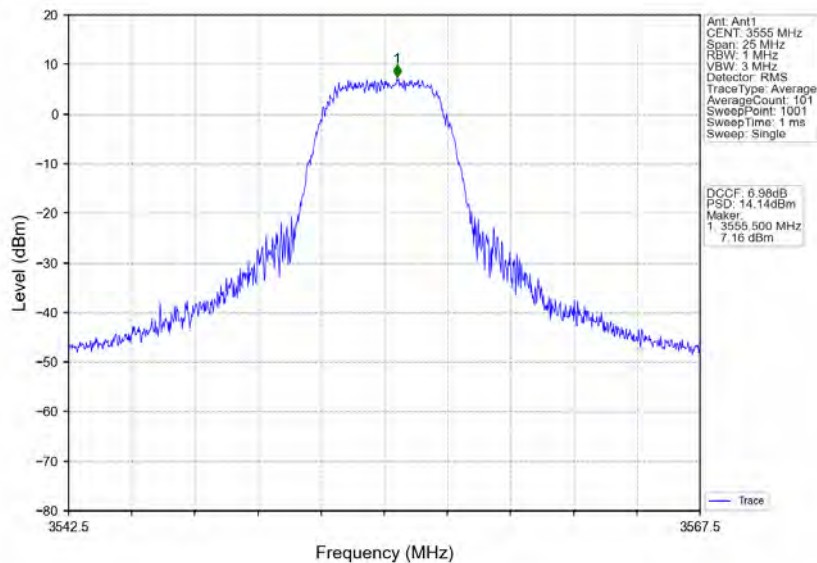
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n78d\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM QPSK\_3555MHz\_Outer\_Full



n78d\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM QPSK\_3555MHz\_Inner\_Full



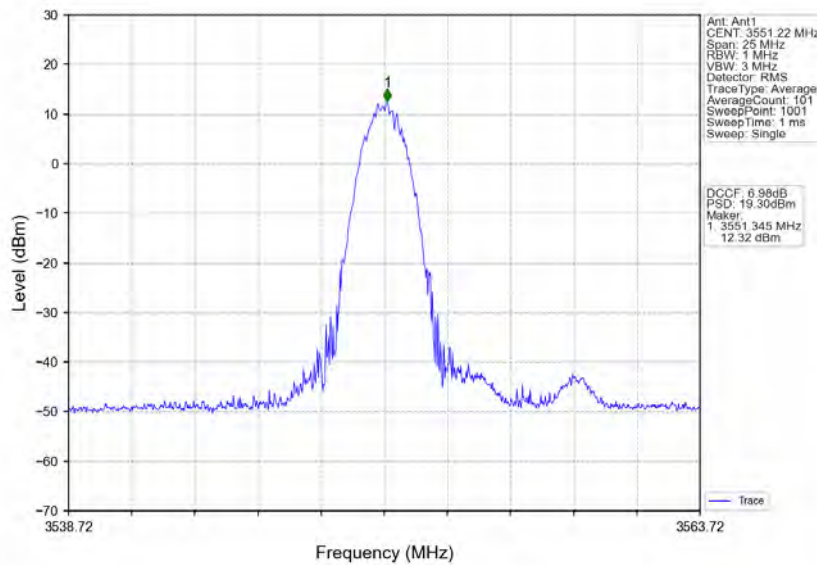
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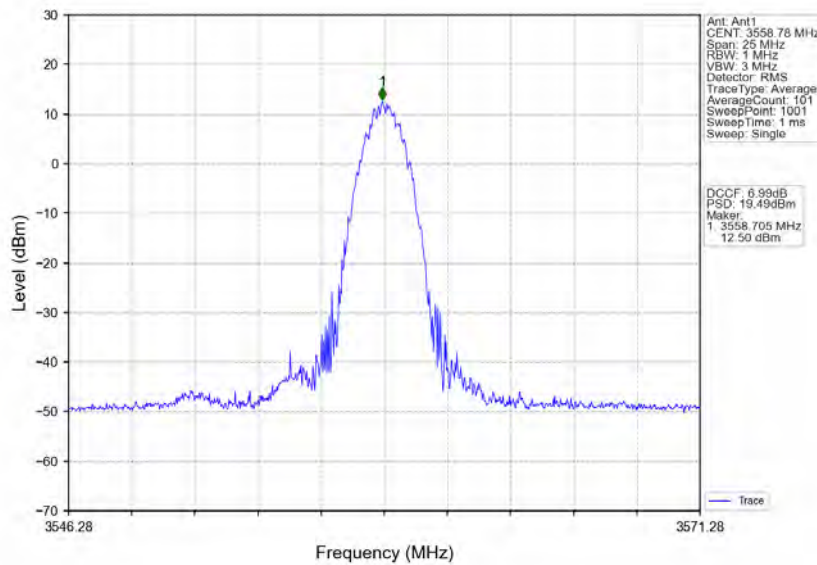
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n78d\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM QPSK\_3558MHz\_Inner\_1RB\_Right



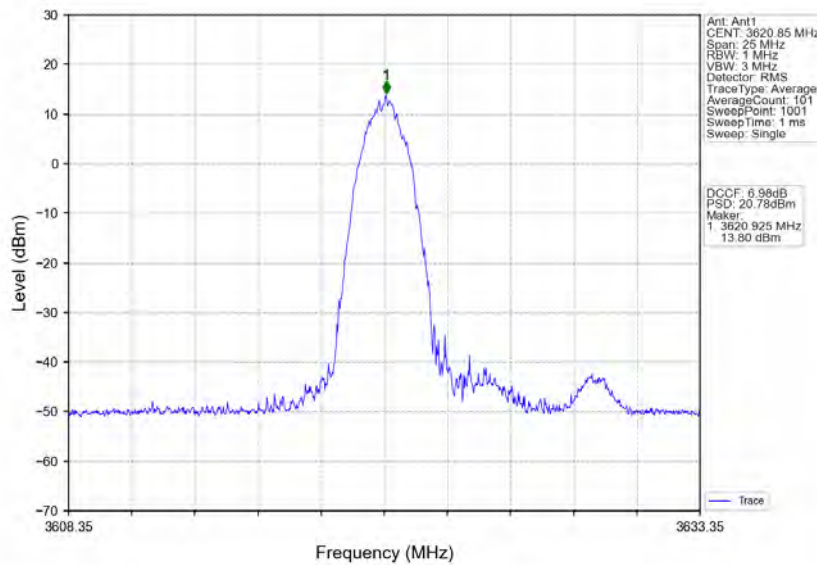
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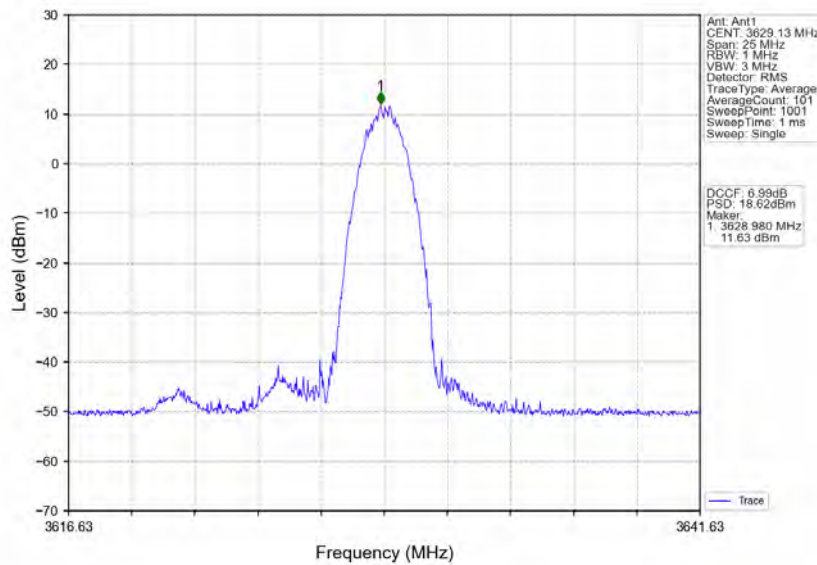
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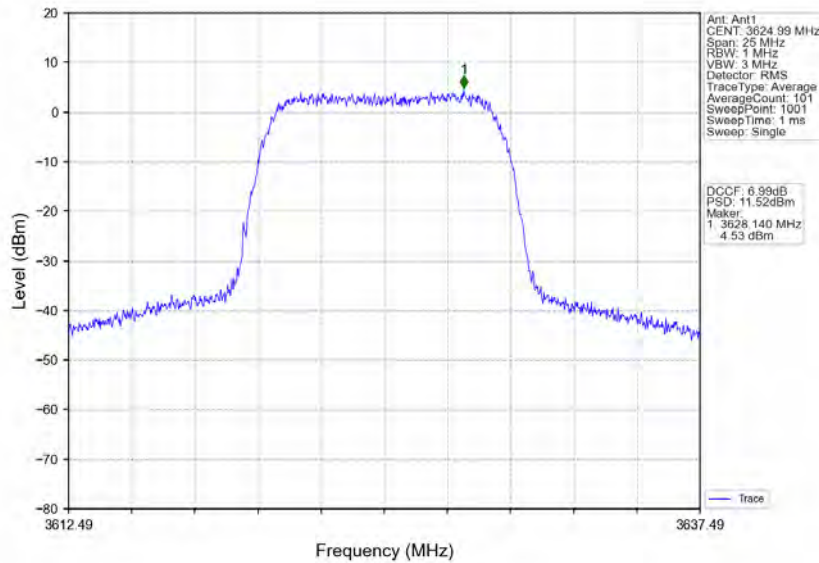
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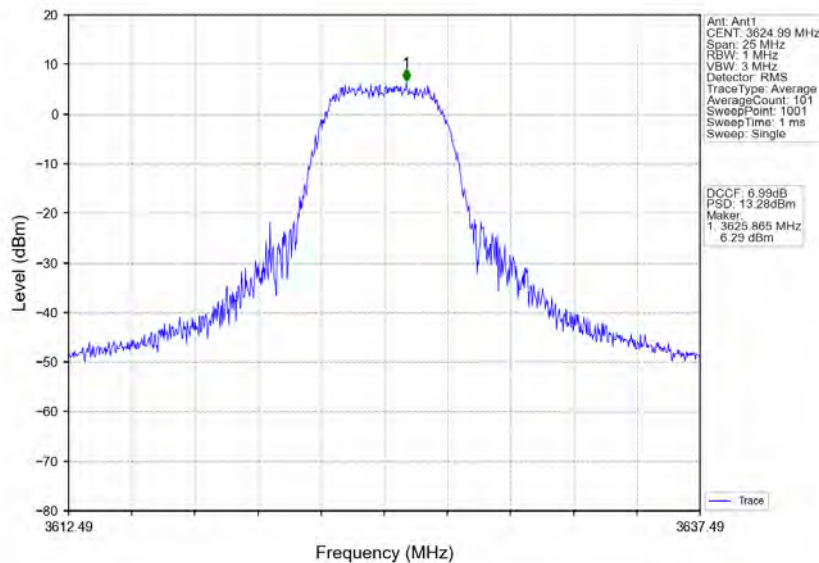
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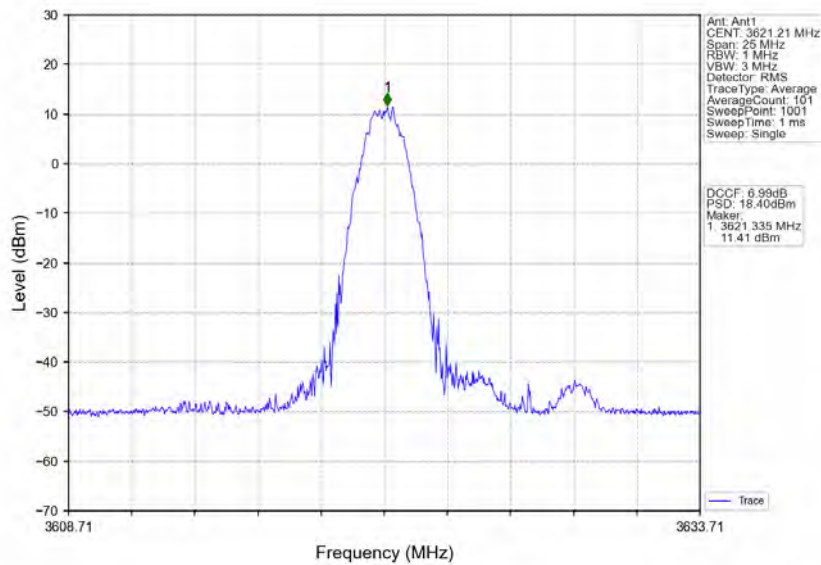
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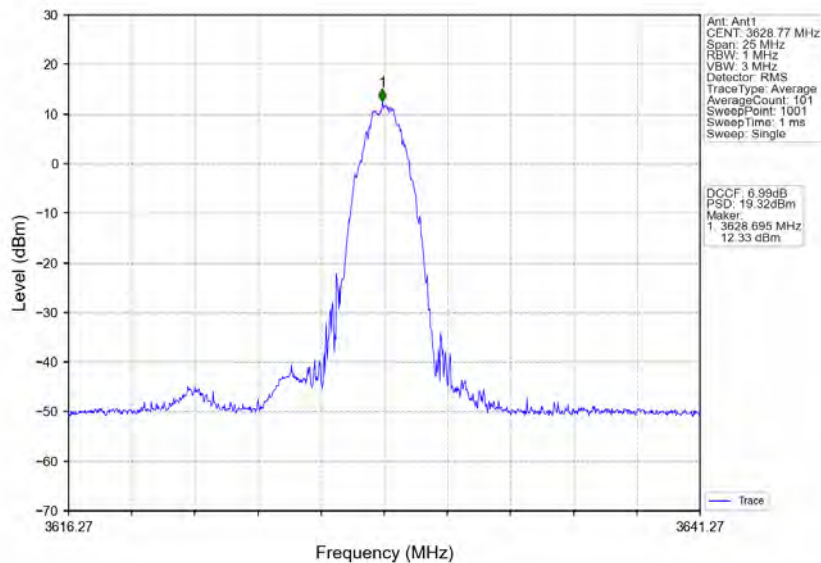
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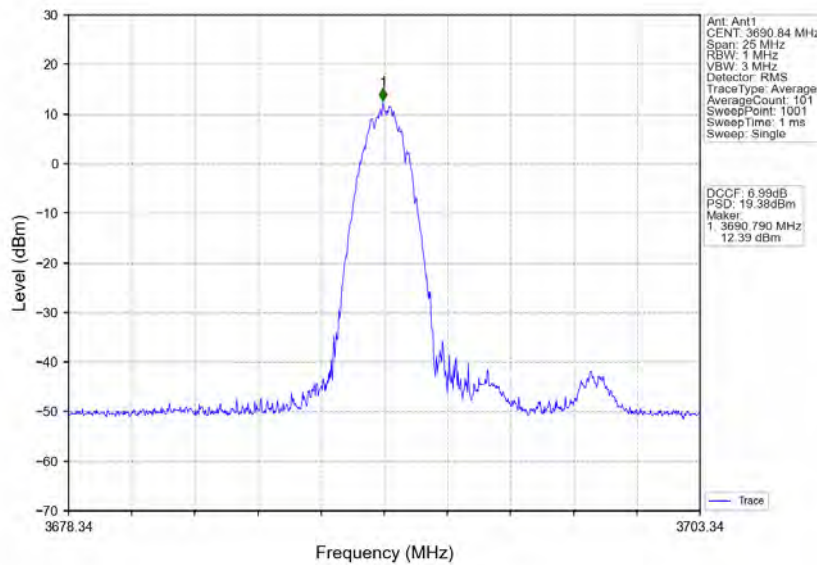
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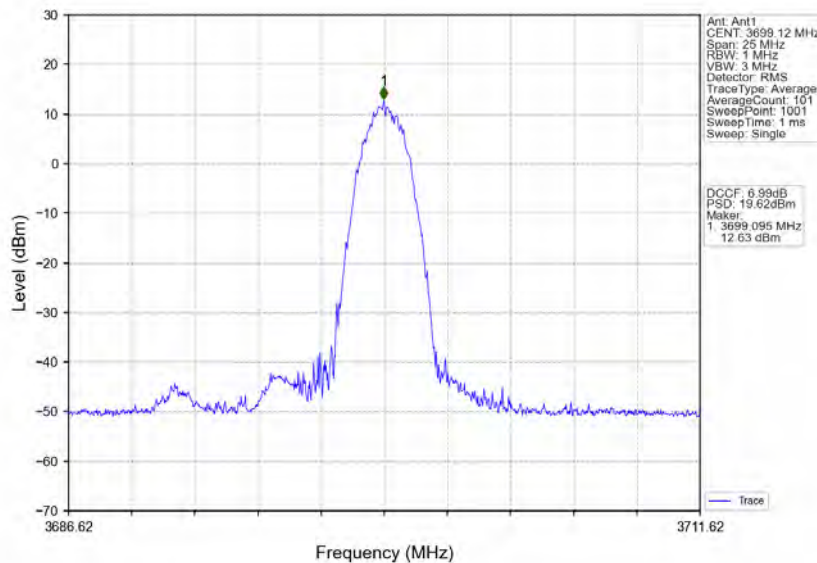
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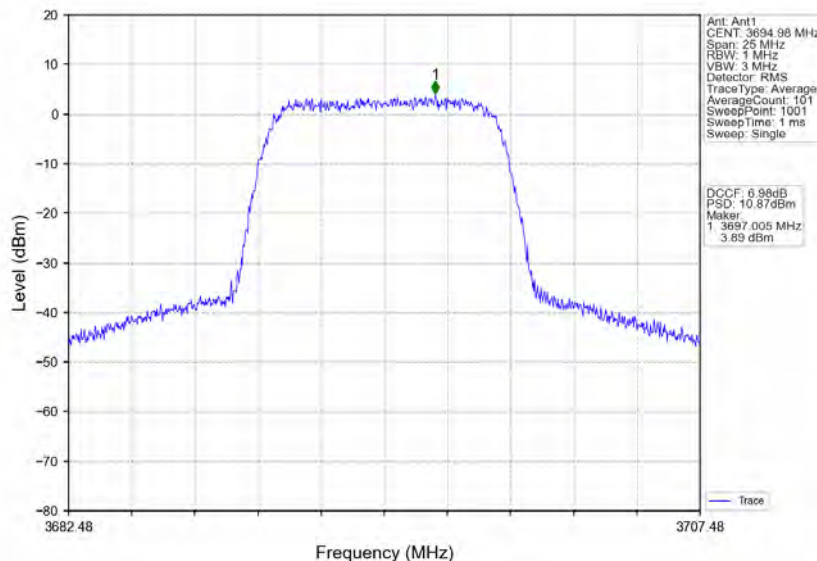
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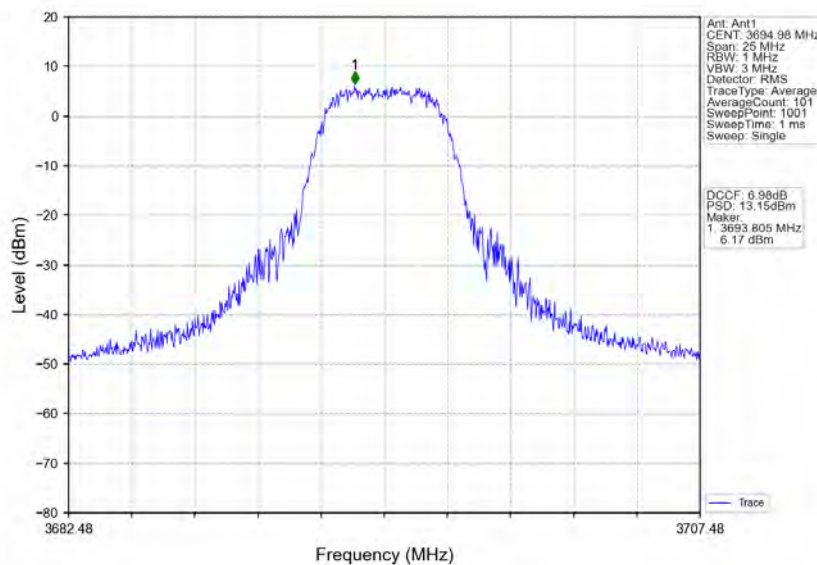
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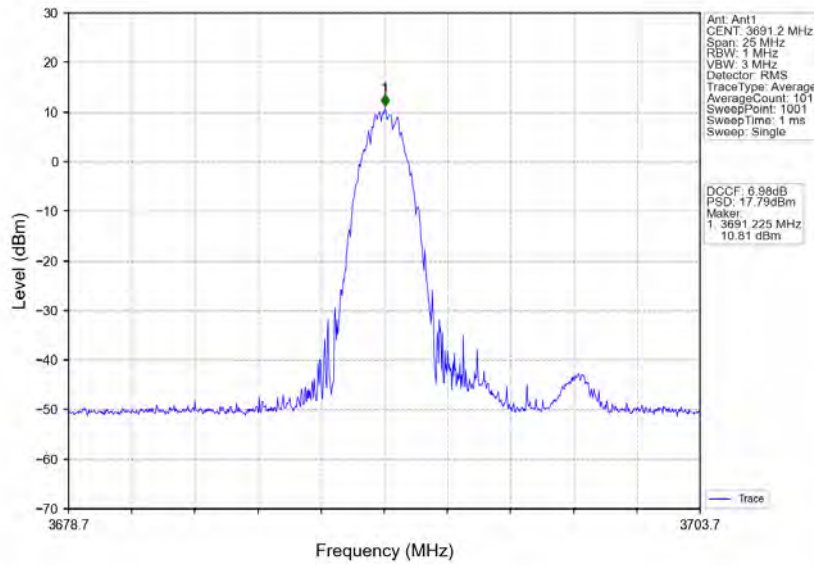
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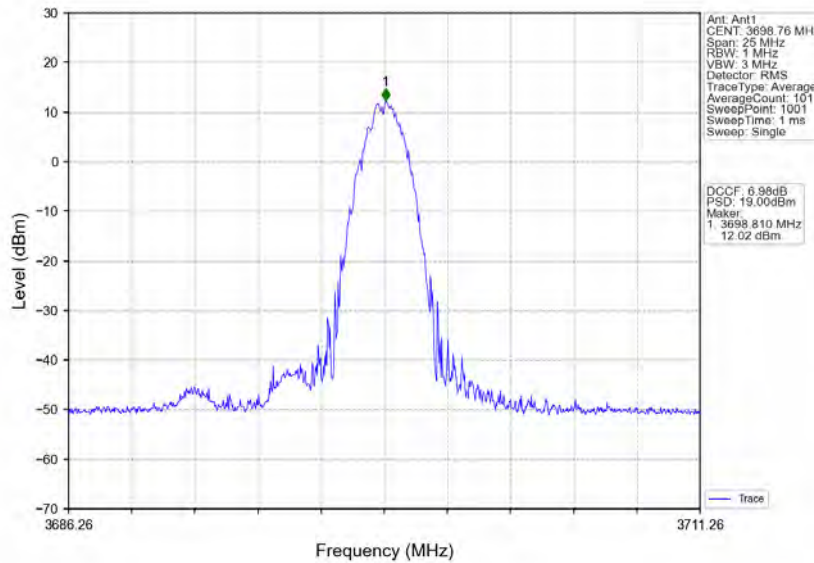
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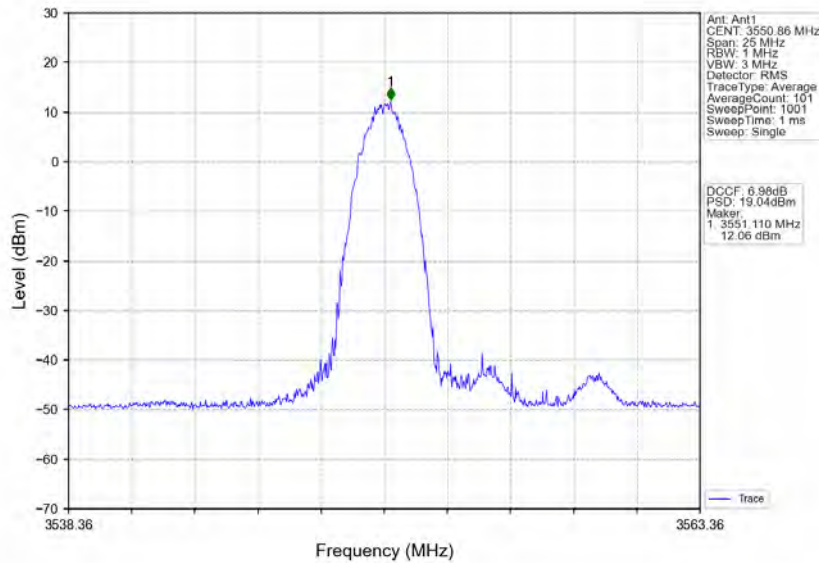
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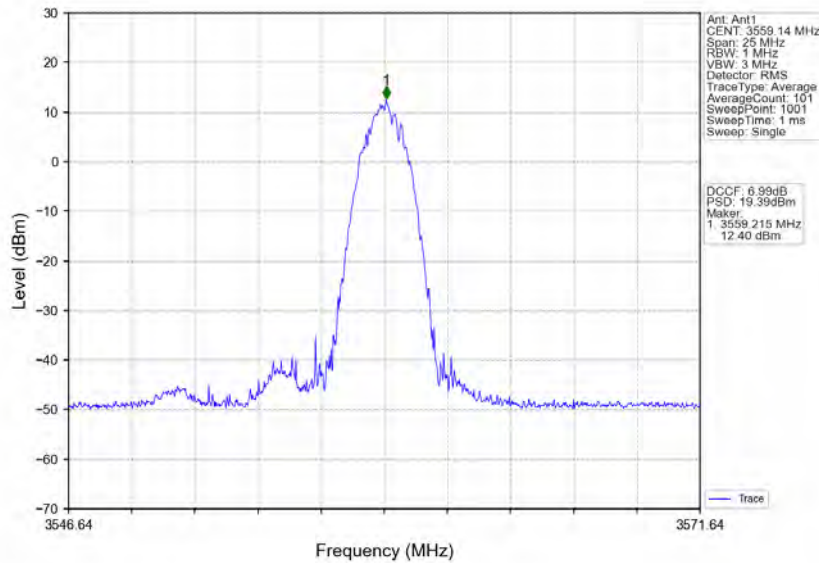
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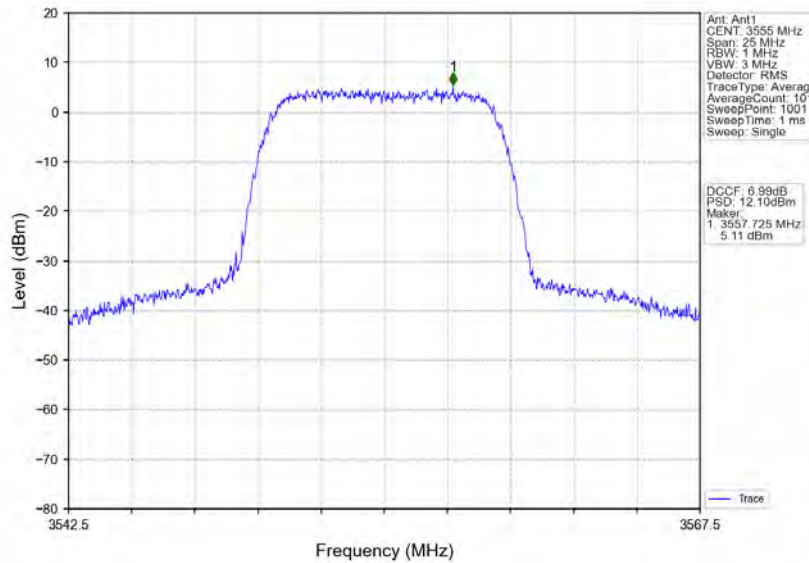
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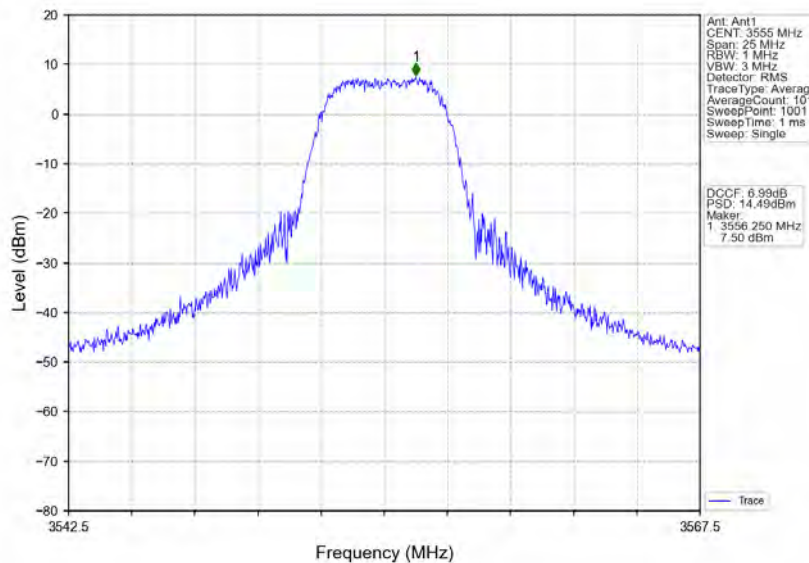
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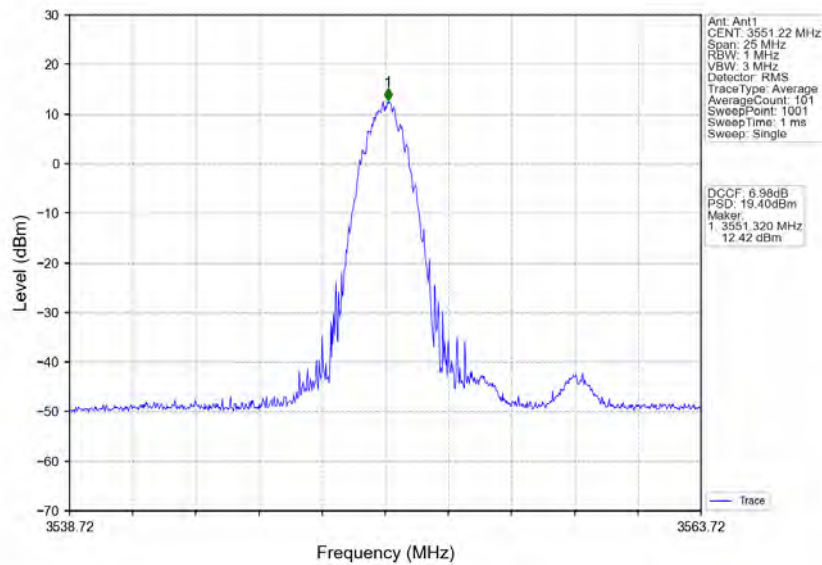
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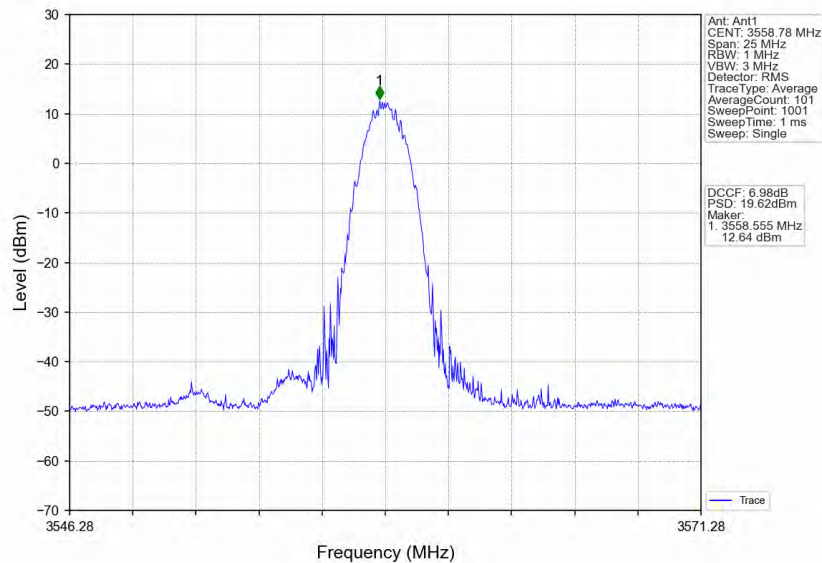
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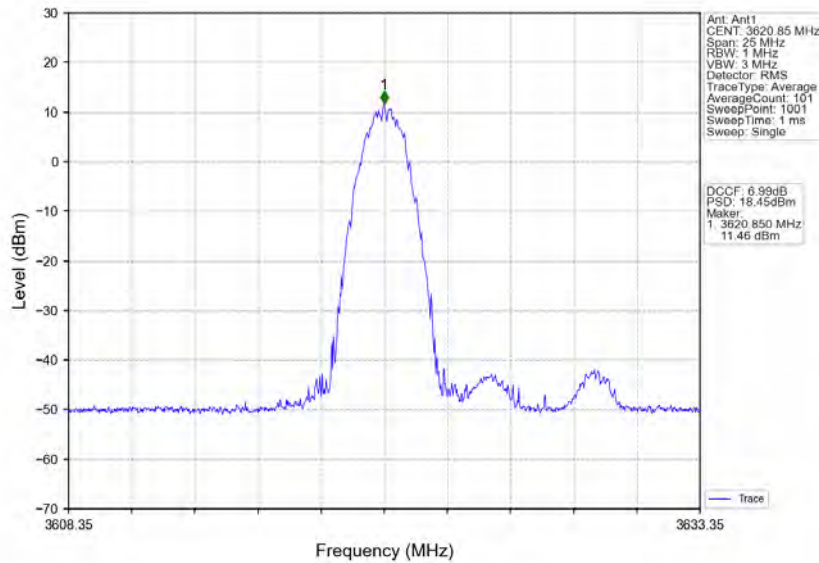
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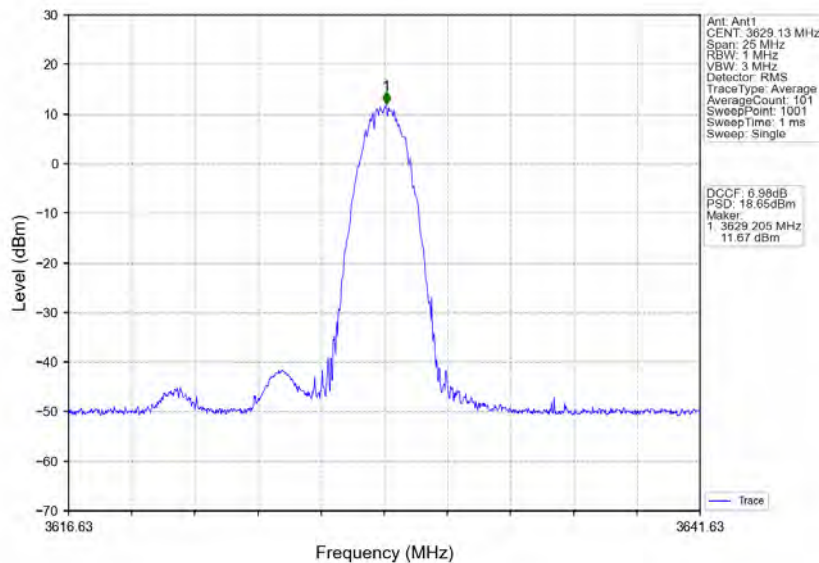
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n78d\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM 16 QAM\_3624.99MHz\_Edge\_1RB\_Left



n78d\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM 16 QAM\_3624.99MHz\_Edge\_1RB\_Right



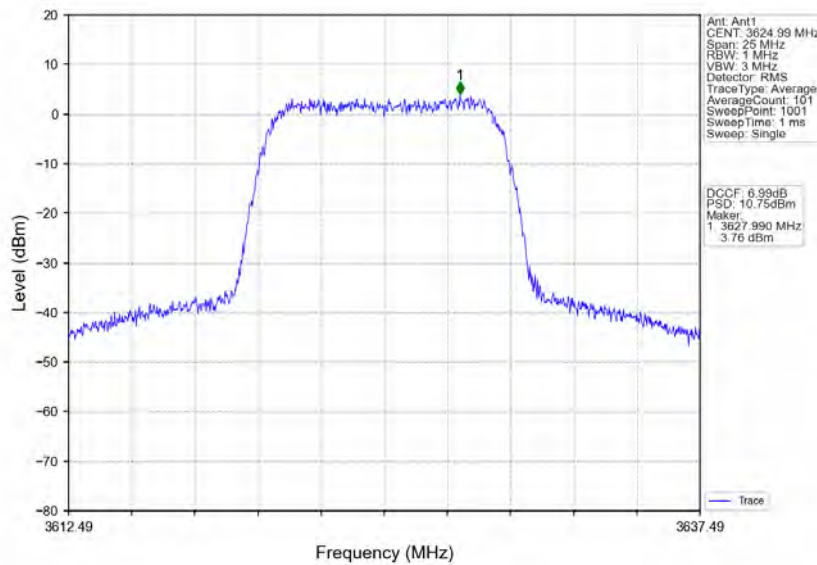
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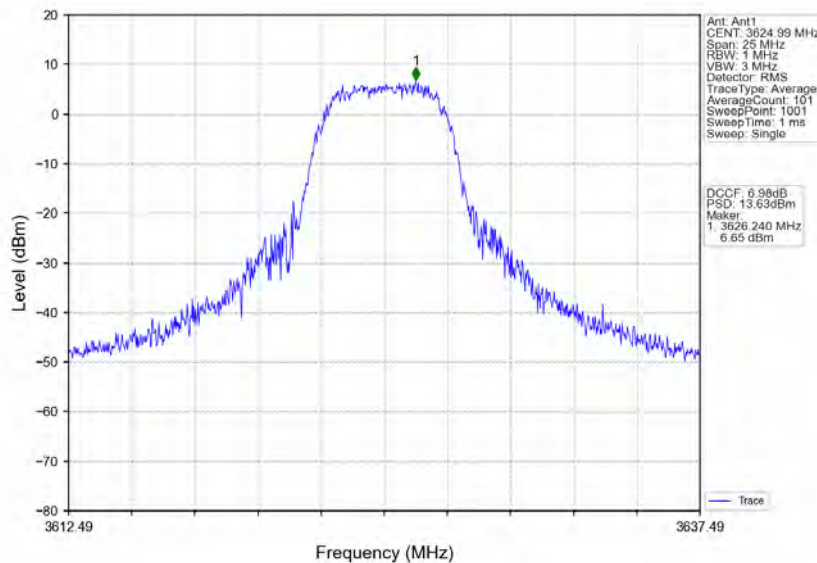
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n78d\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM 16 QAM\_3624.99MHz\_Outer\_Full



n78d\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM 16 QAM\_3624.99MHz\_Inner\_Full



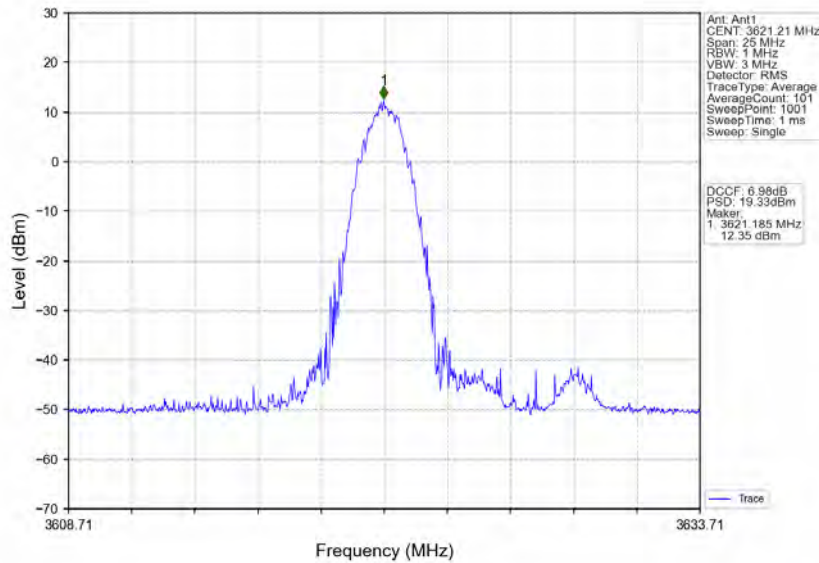
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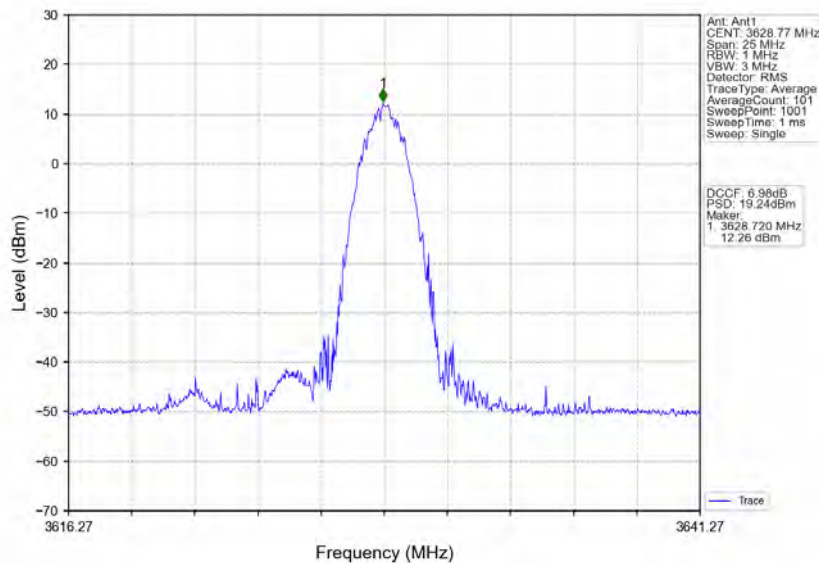
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n78d\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM 16 QAM\_3624.99MHz\_Inner\_1RB\_Left



n78d\_30kHz\_MIMO\_NTNV\_10MHz\_CP-OFDM 16 QAM\_3624.99MHz\_Inner\_1RB\_Right



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