



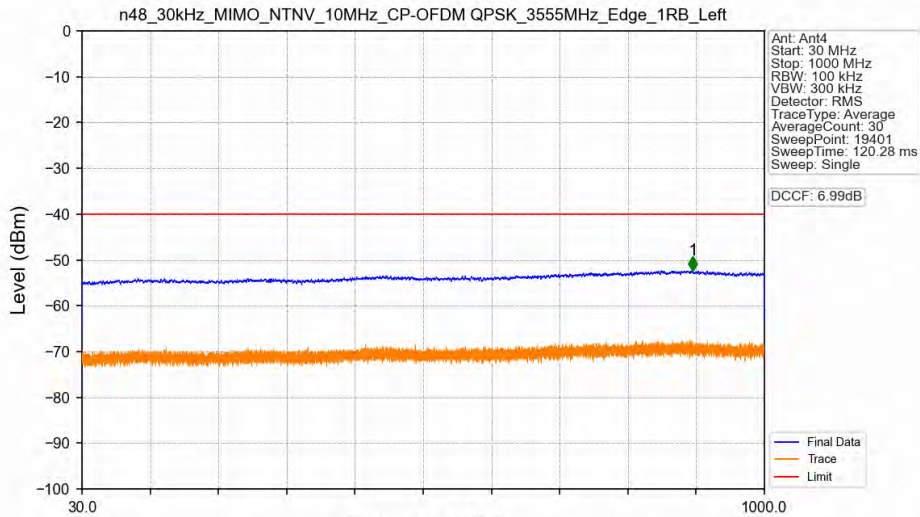
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	898.300	-52.31	-40	Pass

n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Edge_1RB_Left



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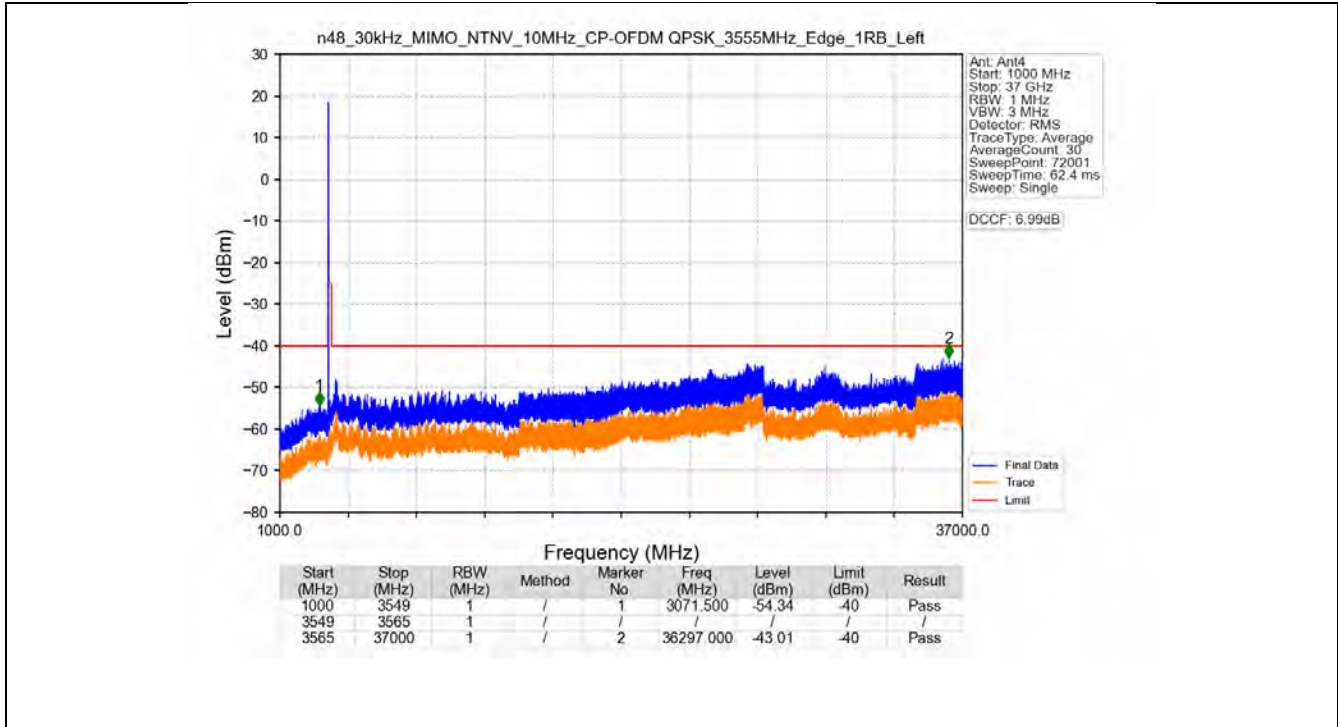


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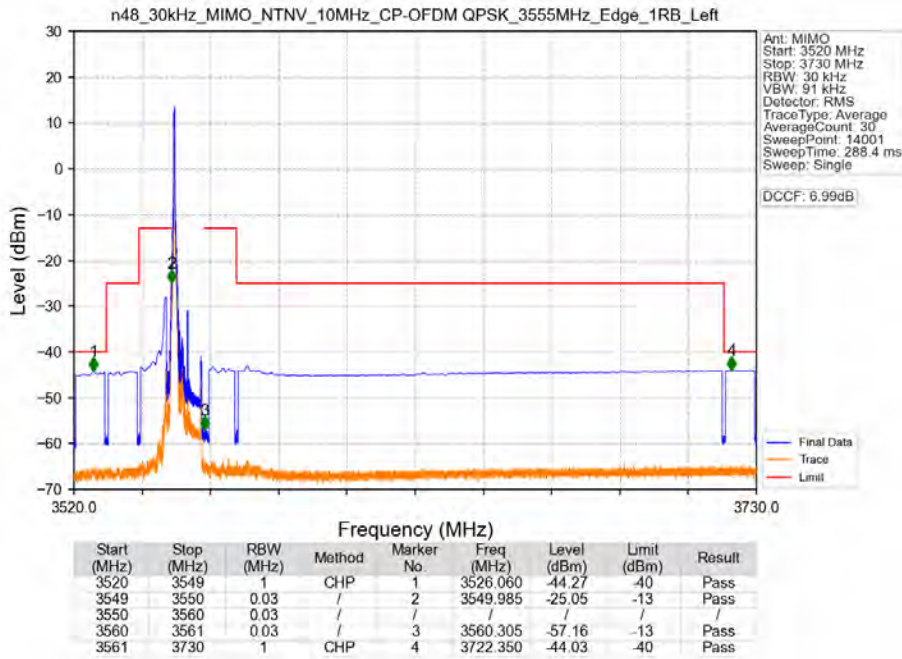
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Edge_1RB_Left



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Edge_1RB_Left



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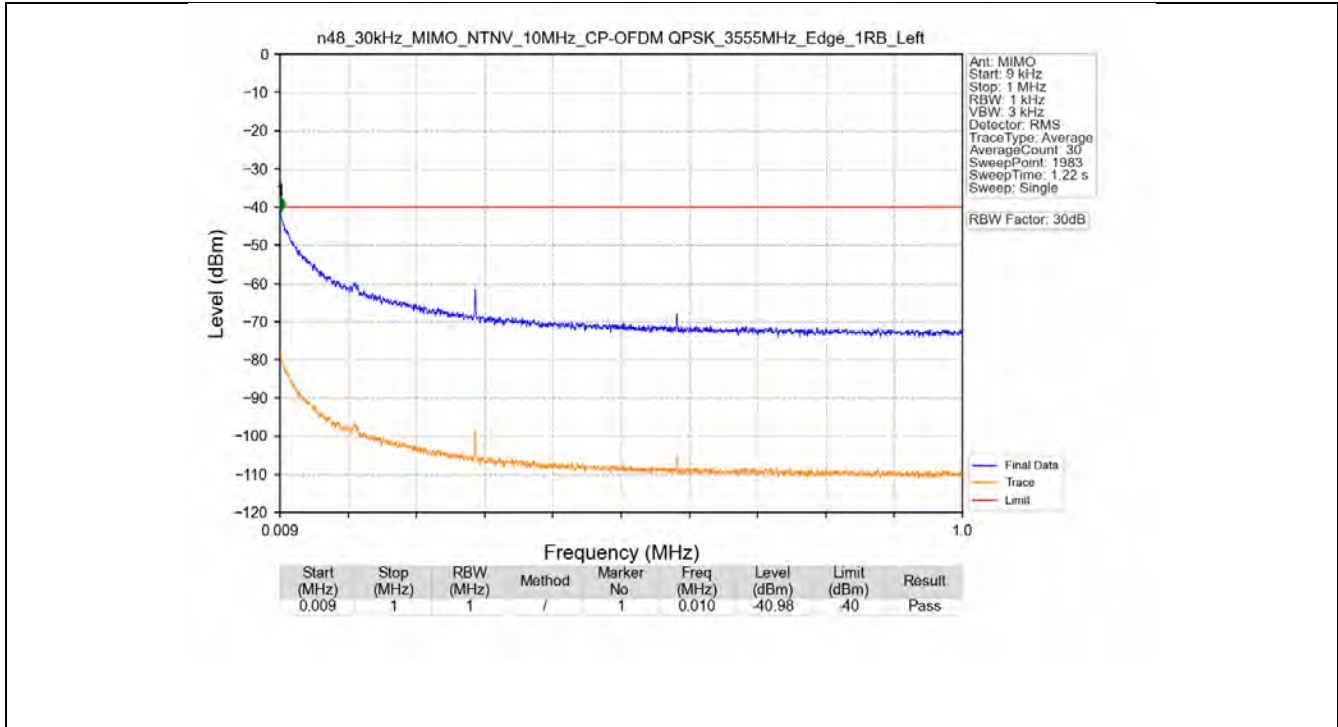


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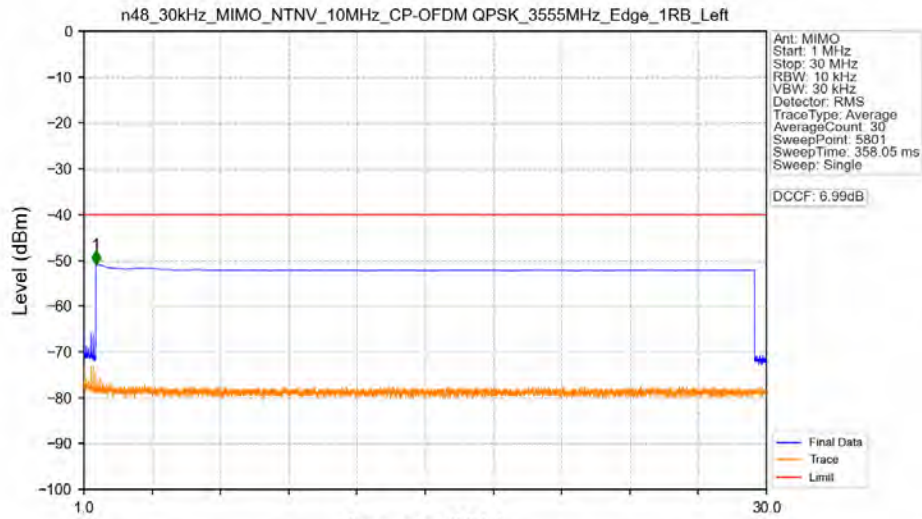
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Edge_1RB_Left



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Edge_1RB_Left



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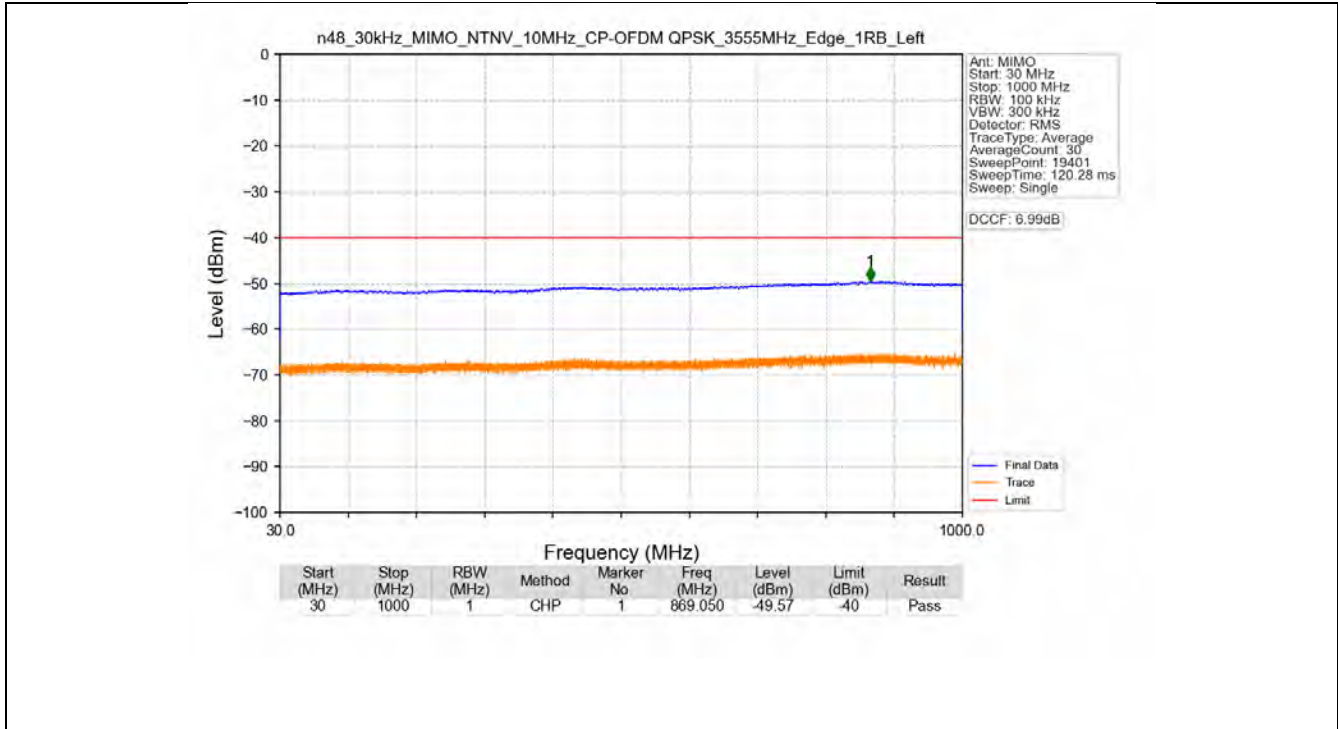


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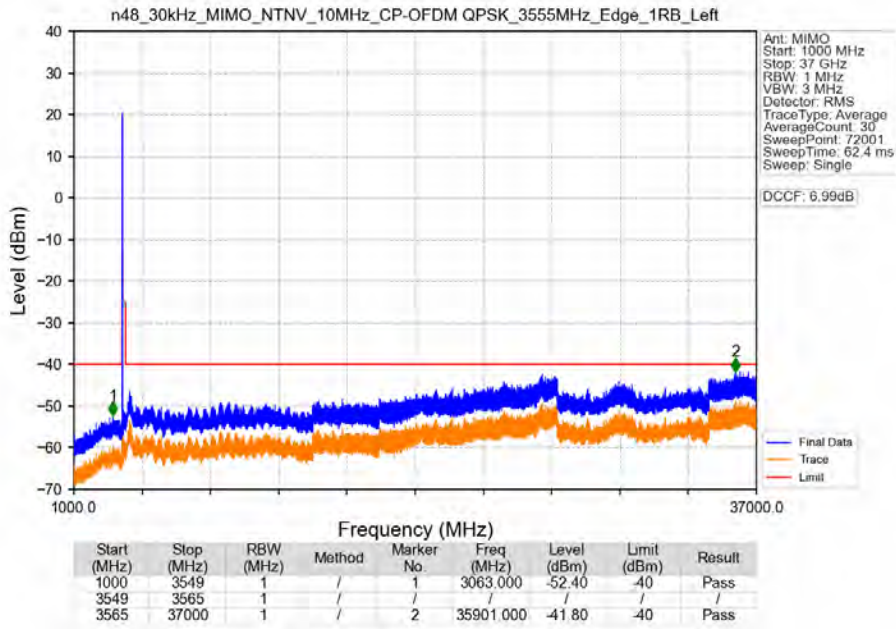
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Edge_1RB_Left



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Outer_Full



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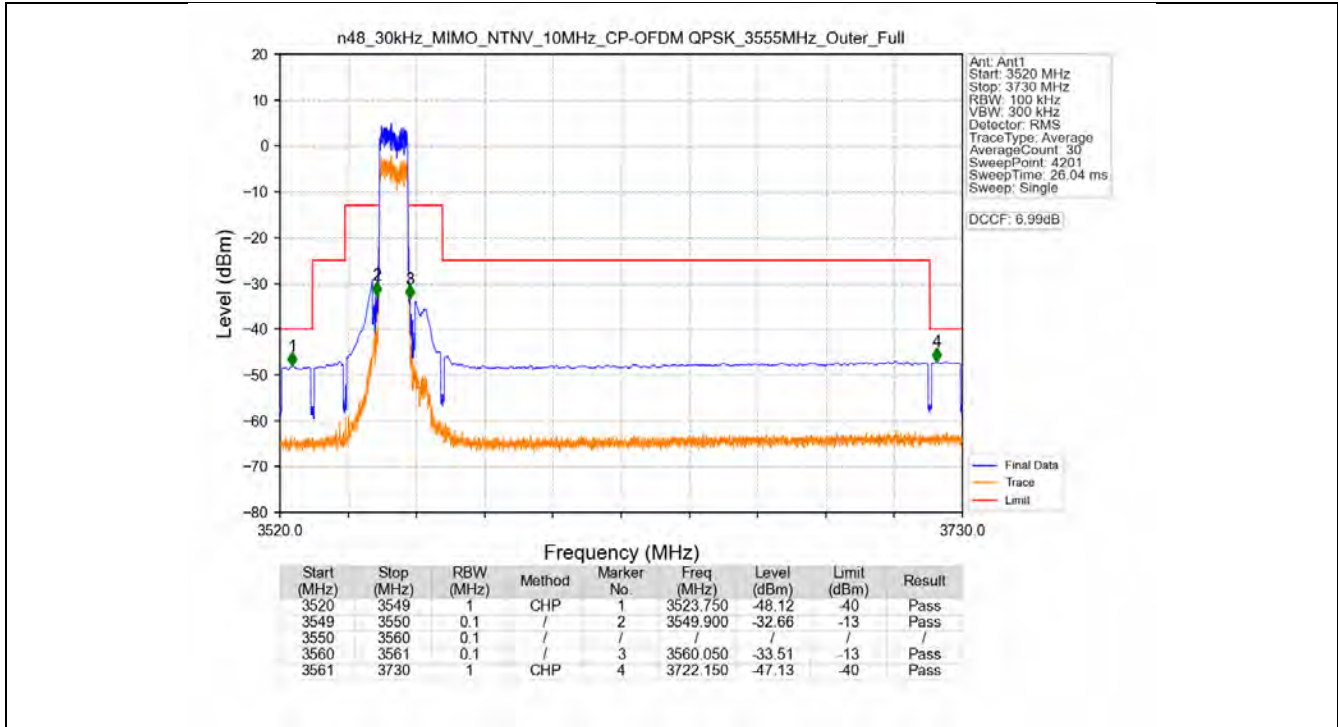


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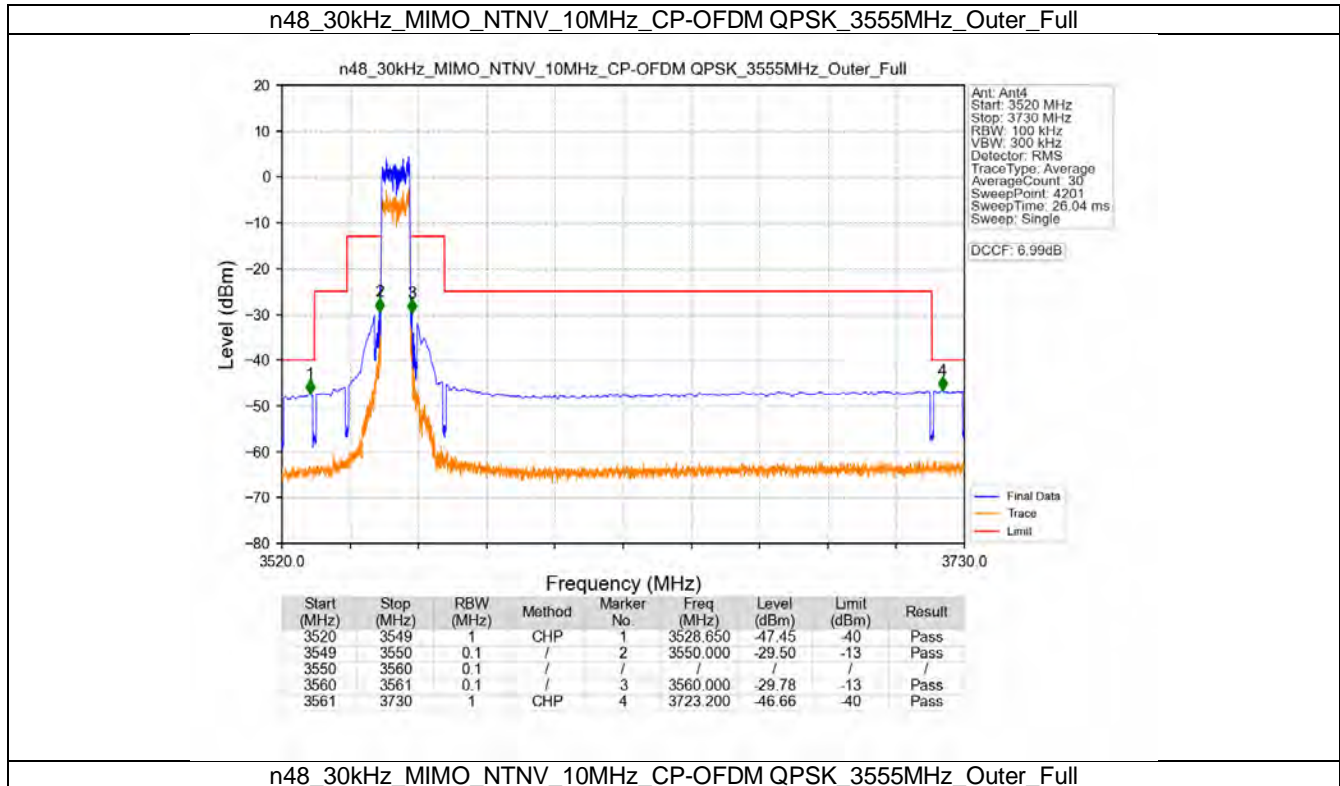


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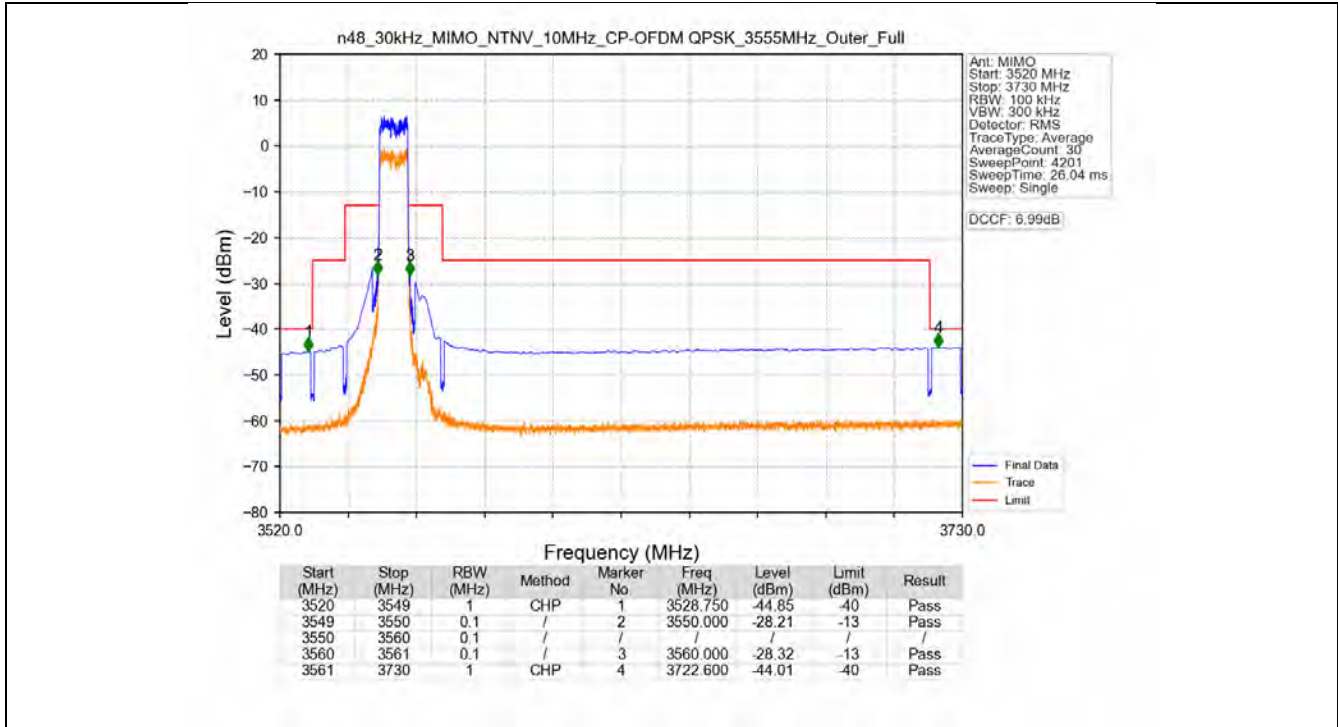


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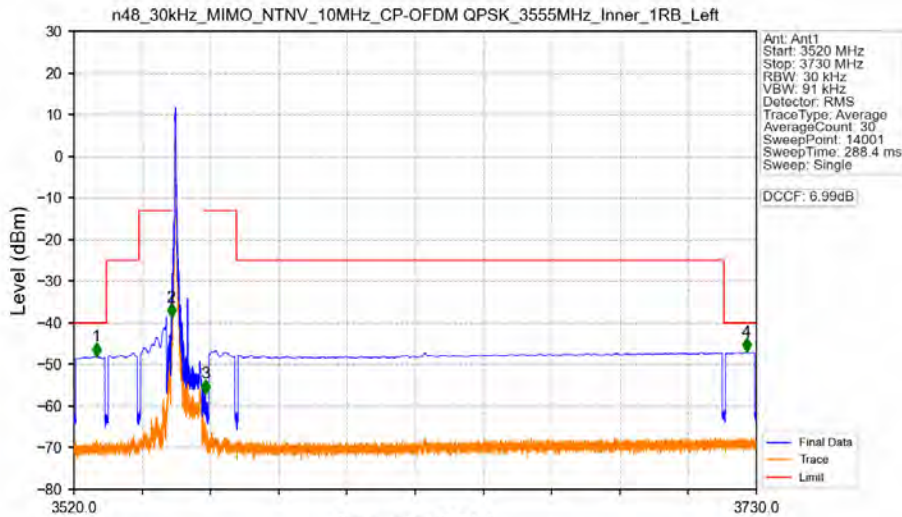
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Inner_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3549	1	CHP	1	3526.945	-48.11	-40	Pass
3549	3550	0.03	/	2	3549.955	-38.64	-13	Pass
3550	3560	0.03	/	/	/	/	/	/
3560	3561	0.03	/	3	3560.425	-57.03	-13	Pass
3561	3730	1	CHP	4	3727.030	-47.02	-40	Pass

n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Inner_1RB_Left



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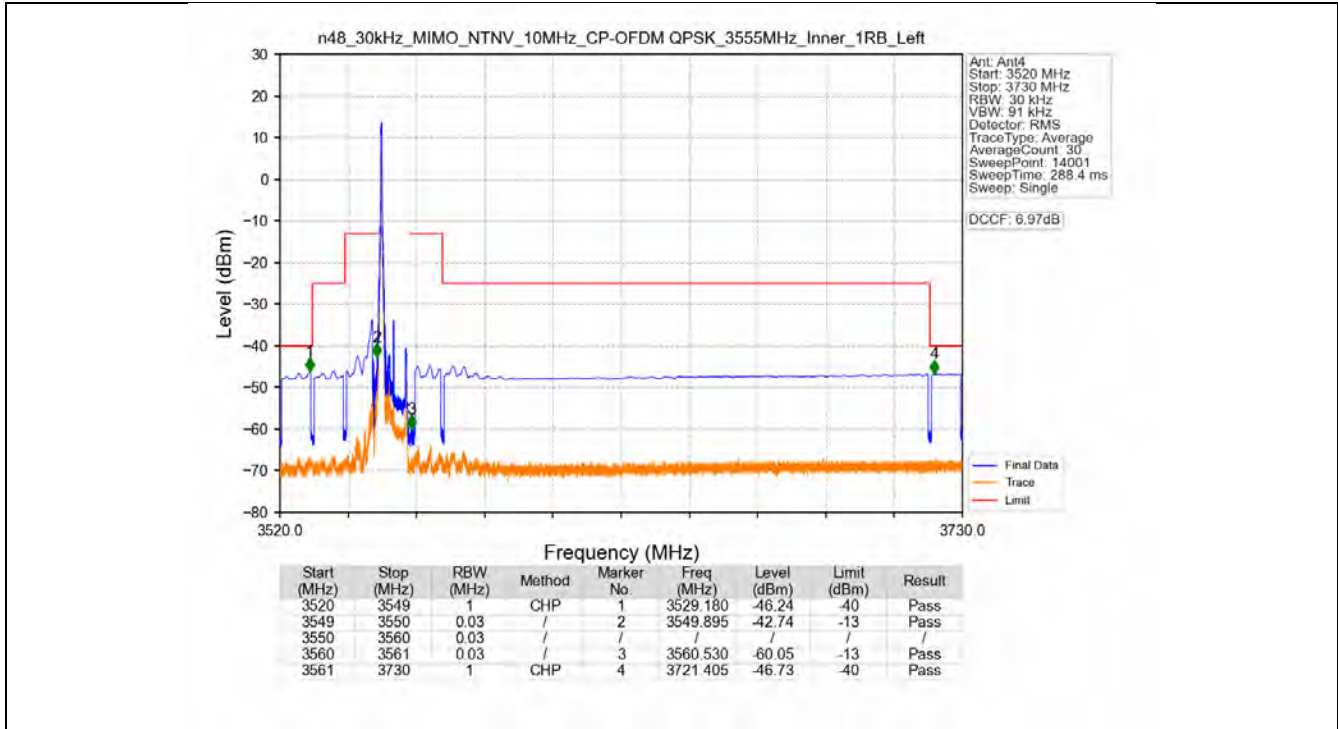


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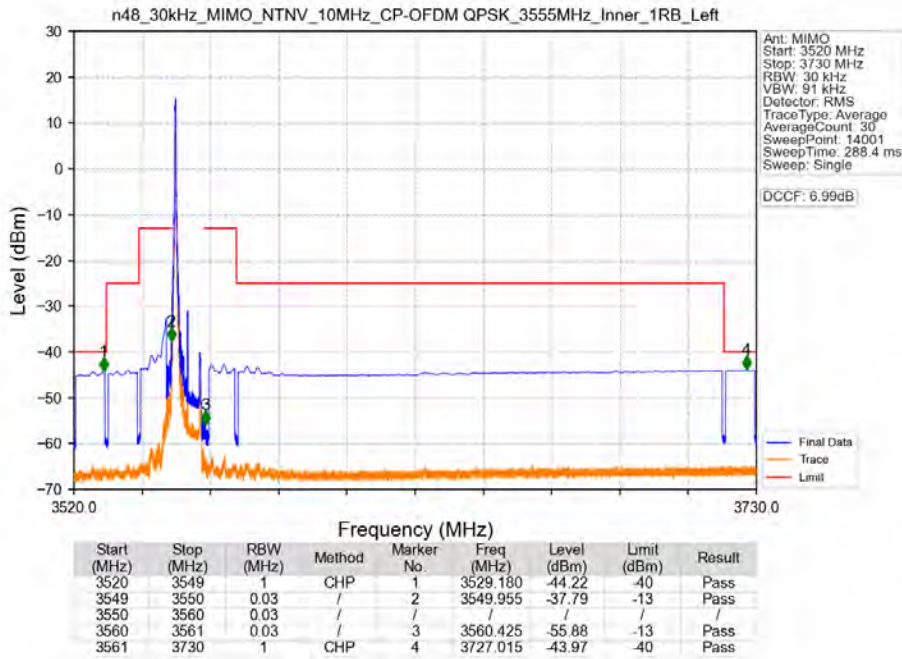
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3694.98MHz_Edge_1RB_Right



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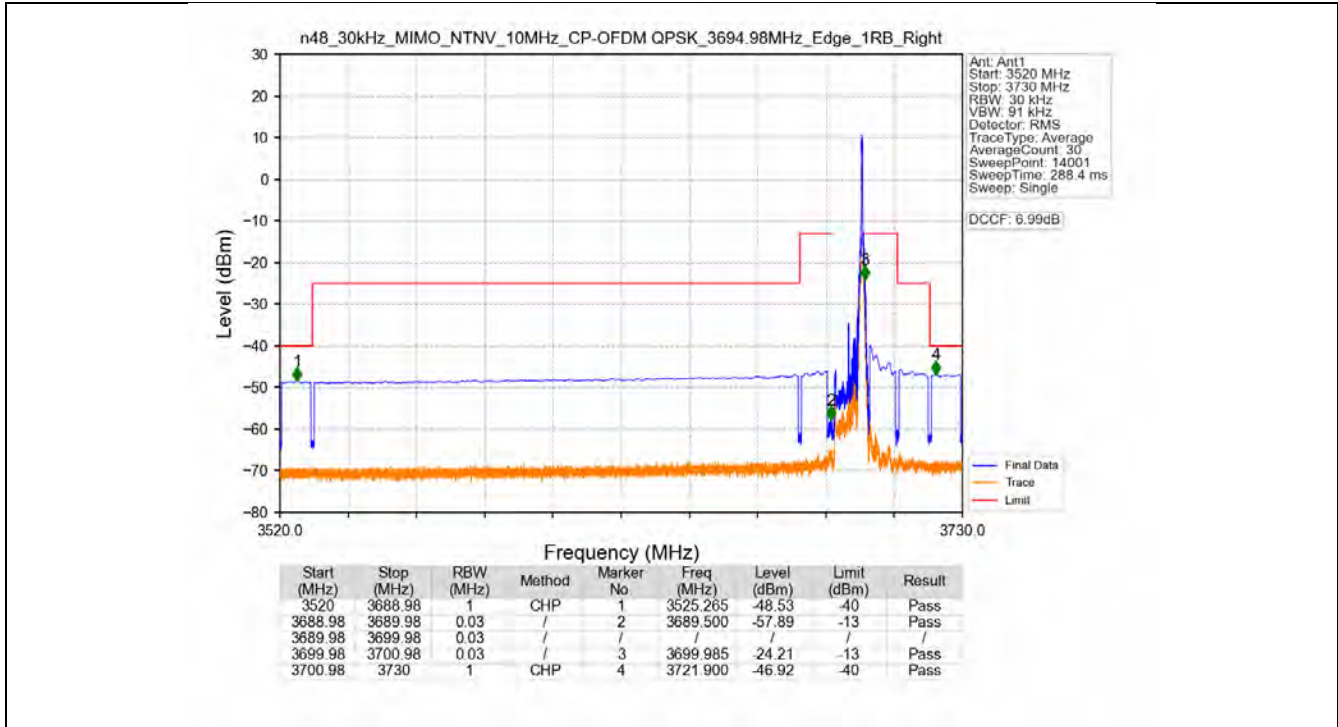


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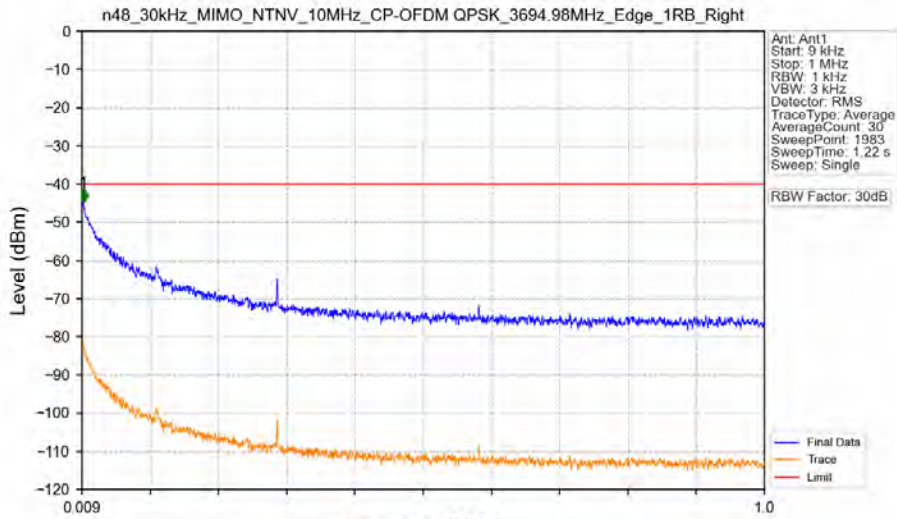
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3694.98MHz_Edge_1RB_Right



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3694.98MHz_Edge_1RB_Right



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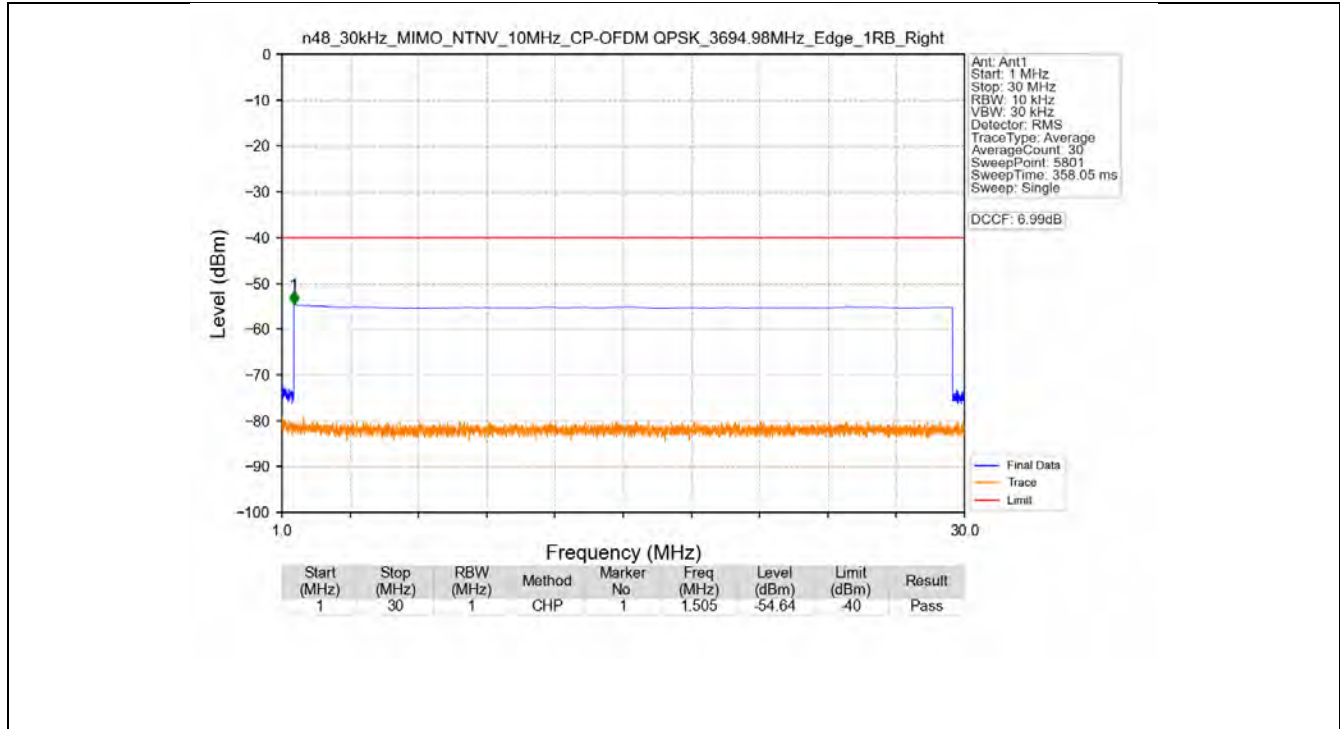


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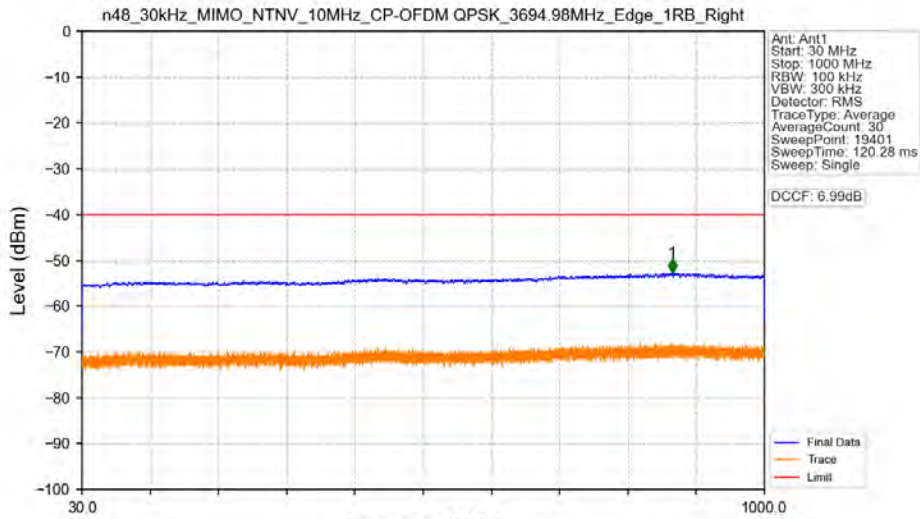
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_QPSK_3694.98MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	868.750	-52.74	-40	Pass

n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_QPSK_3694.98MHz_Edge_1RB_Right



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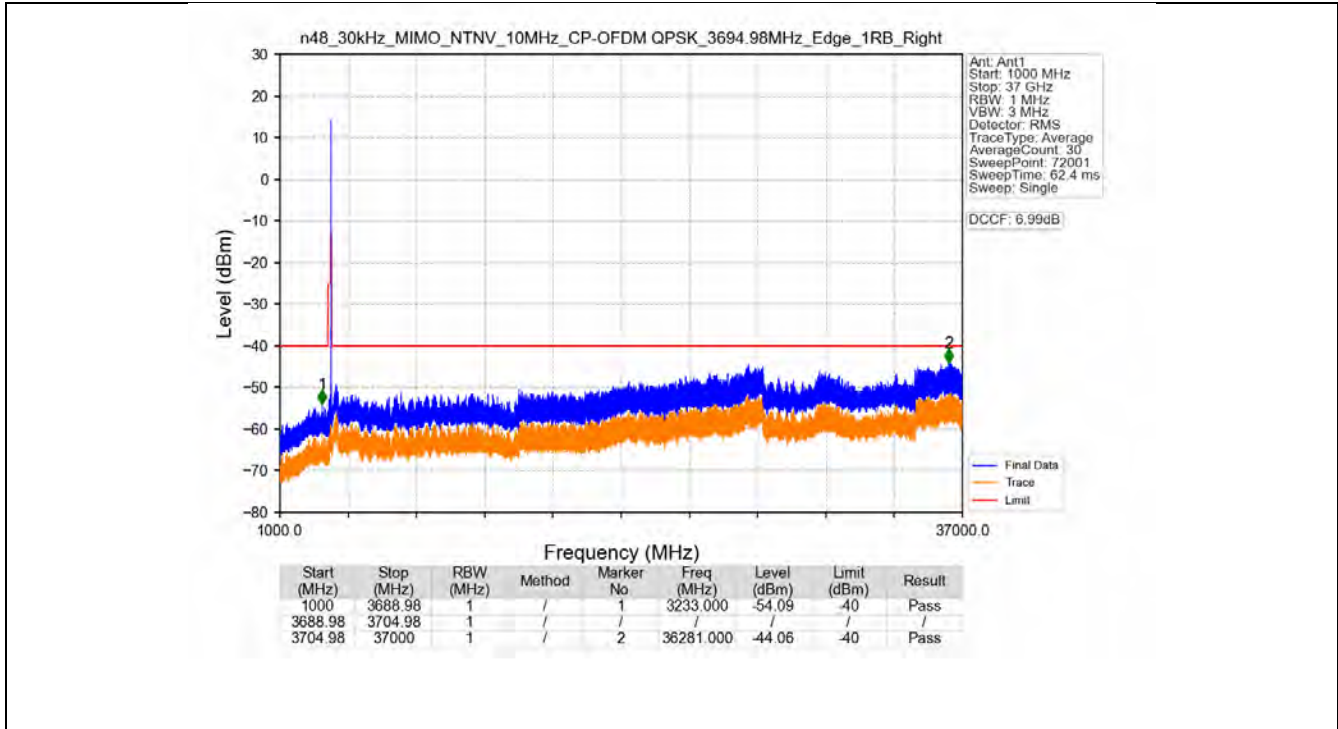


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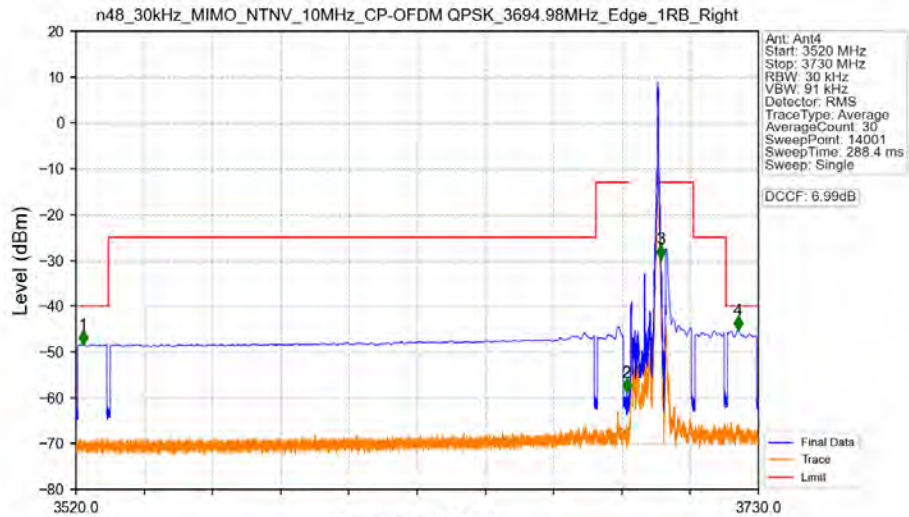
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3688.98	1	CHP	1	3522.205	-48.42	-40	Pass
3688.98	3689.98	0.03	/	2	3689.425	-58.79	-13	Pass
3689.98	3699.98	0.03	/	/	/	/	/	/
3699.98	3700.98	0.03	/	3	3700.015	-29.69	-13	Pass
3700.98	3730	1	CHP	4	3723.700	-45.24	-40	Pass

n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_QPSK_3694.98MHz_Edge_1RB_Right



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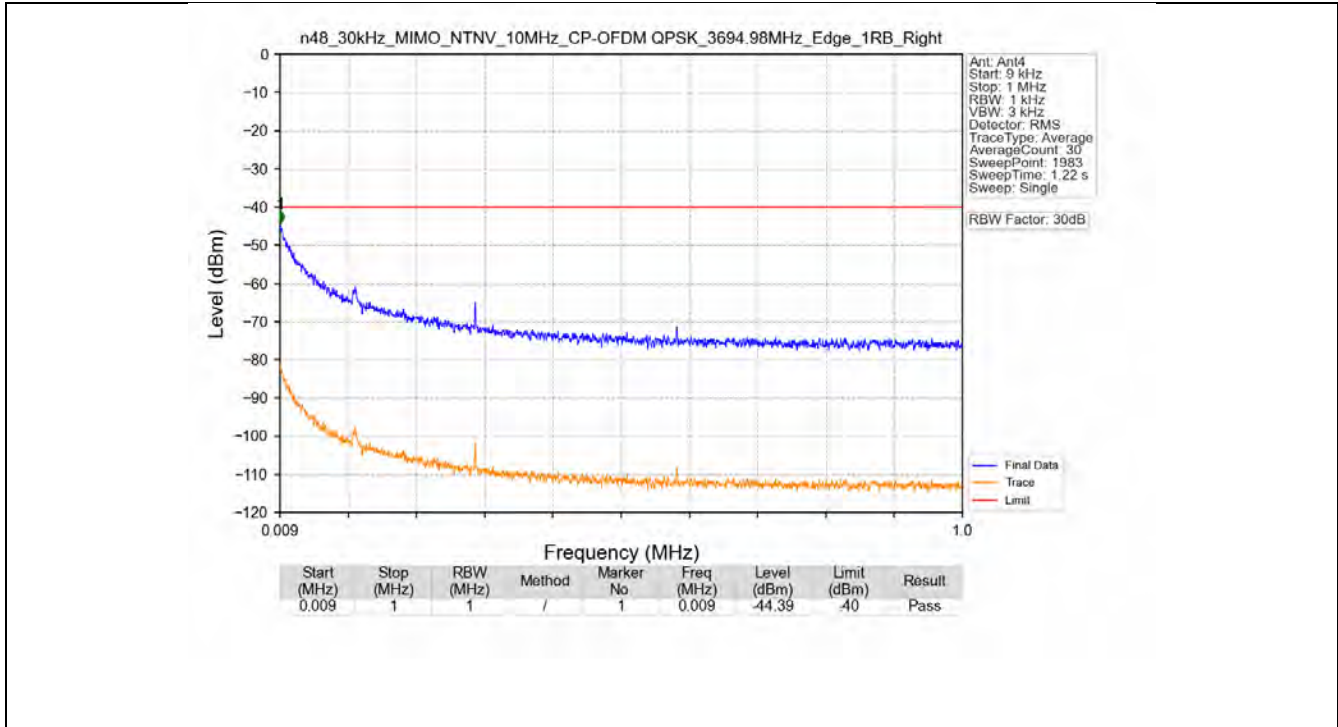


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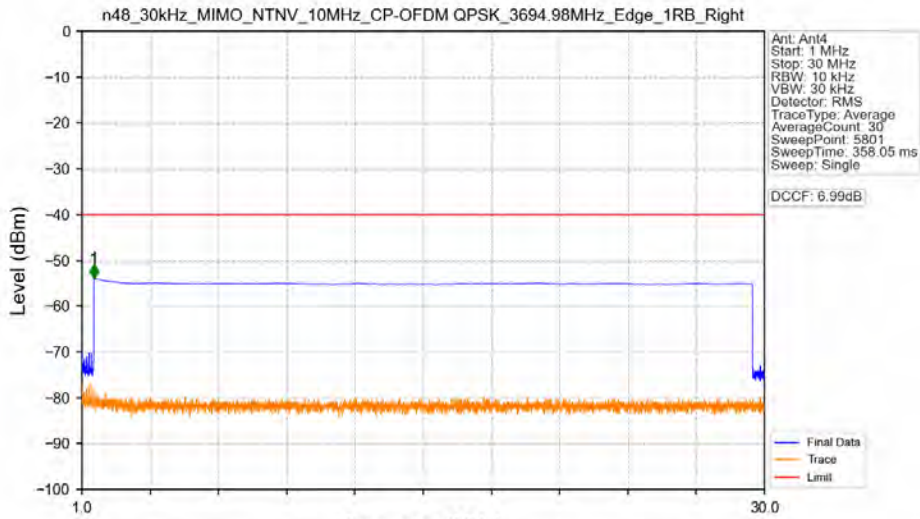
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3694.98MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1	30	1	CHP	1	1.505	-54.03	-40	Pass

n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3694.98MHz_Edge_1RB_Right



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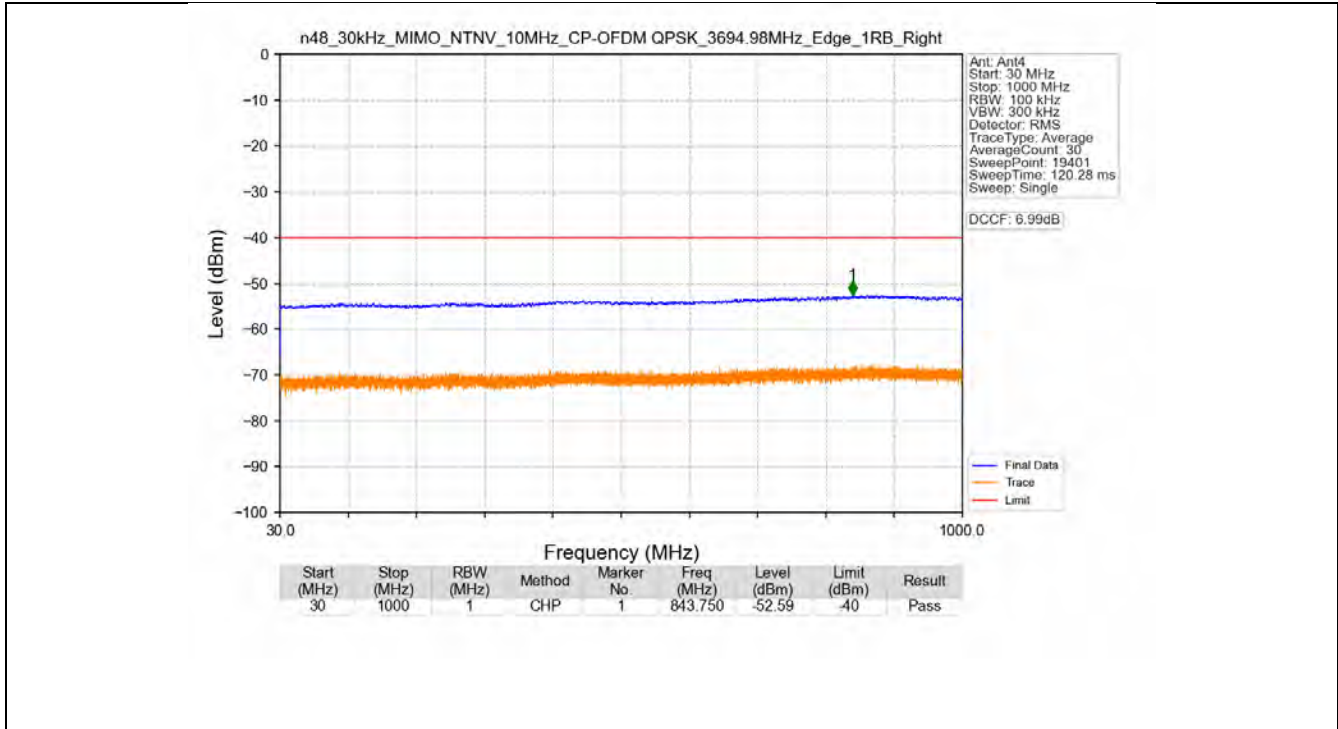


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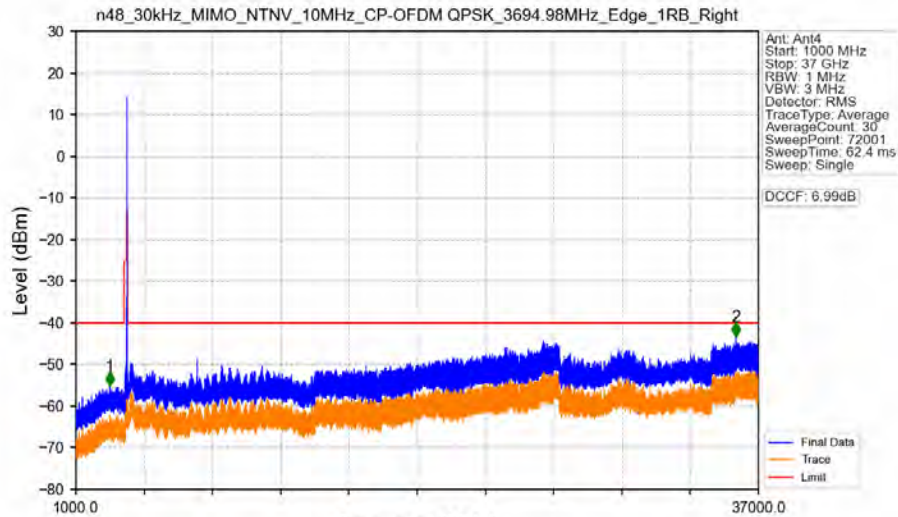
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	3688.98	1	/	1	2783.500	-55.21	-40	Pass
3688.98	3704.98	1	/	/	/	/	/	/
3704.98	37000	1	/	2	35819.500	-43.40	-40	Pass

n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3694.98MHz_Edge_1RB_Right



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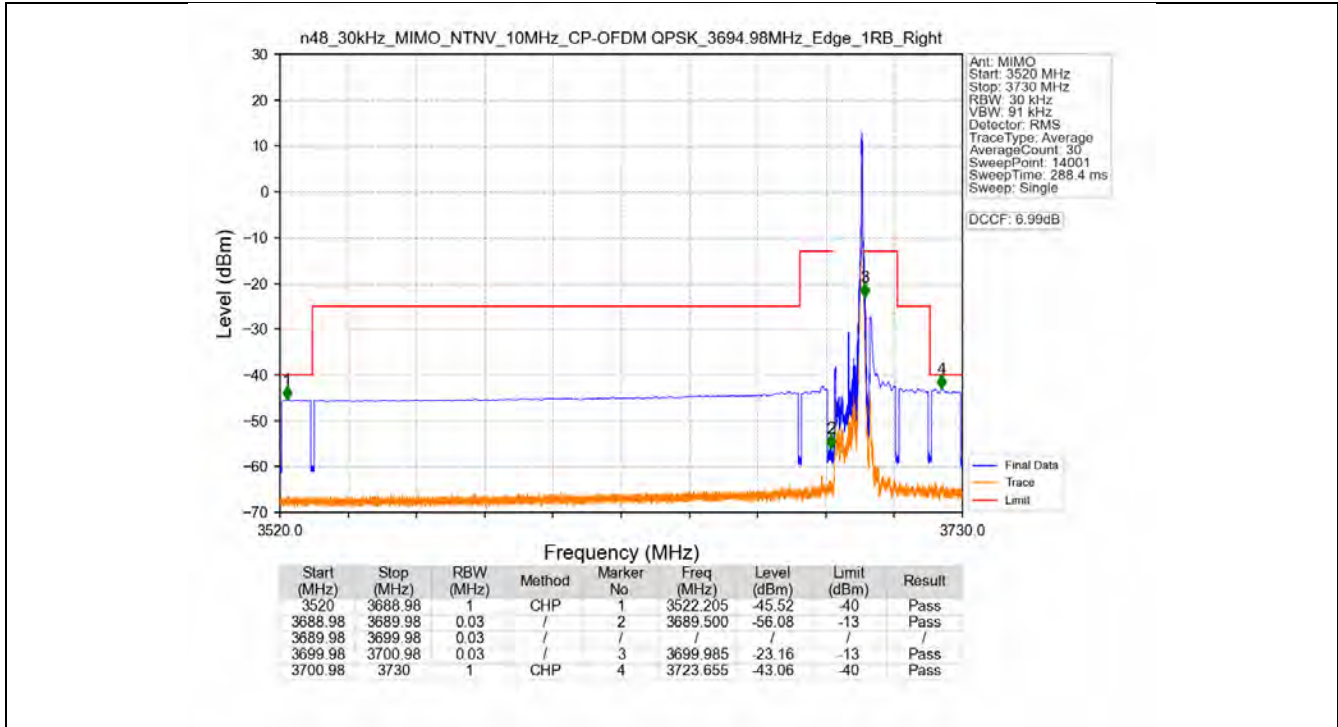


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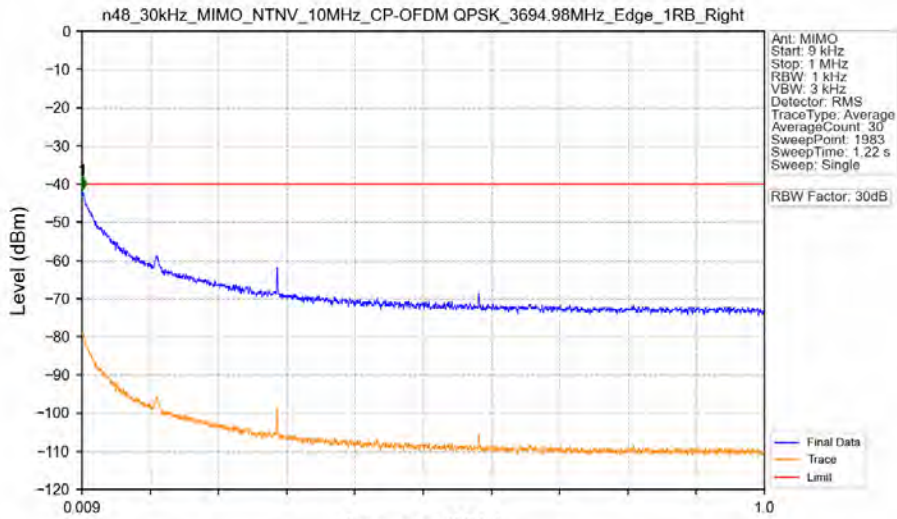
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3694.98MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	1	1	/	1	0.009	-41.76	-40	Pass

n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3694.98MHz_Edge_1RB_Right



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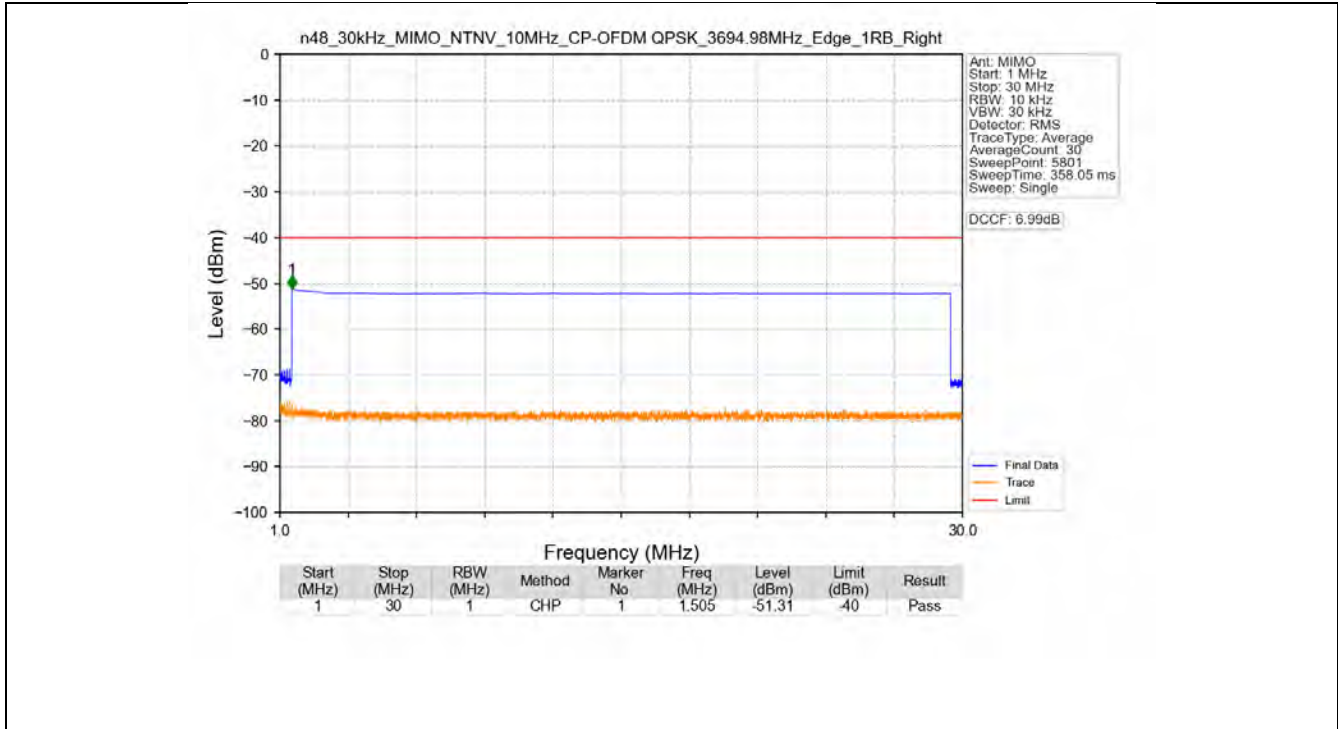


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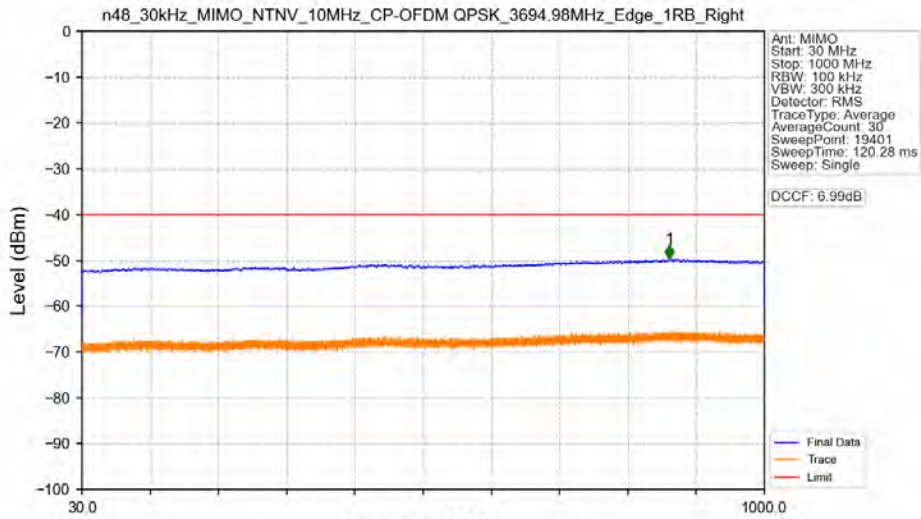
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	865.050	-49.74	-40	Pass

n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_QPSK_3694.98MHz_Edge_1RB_Right



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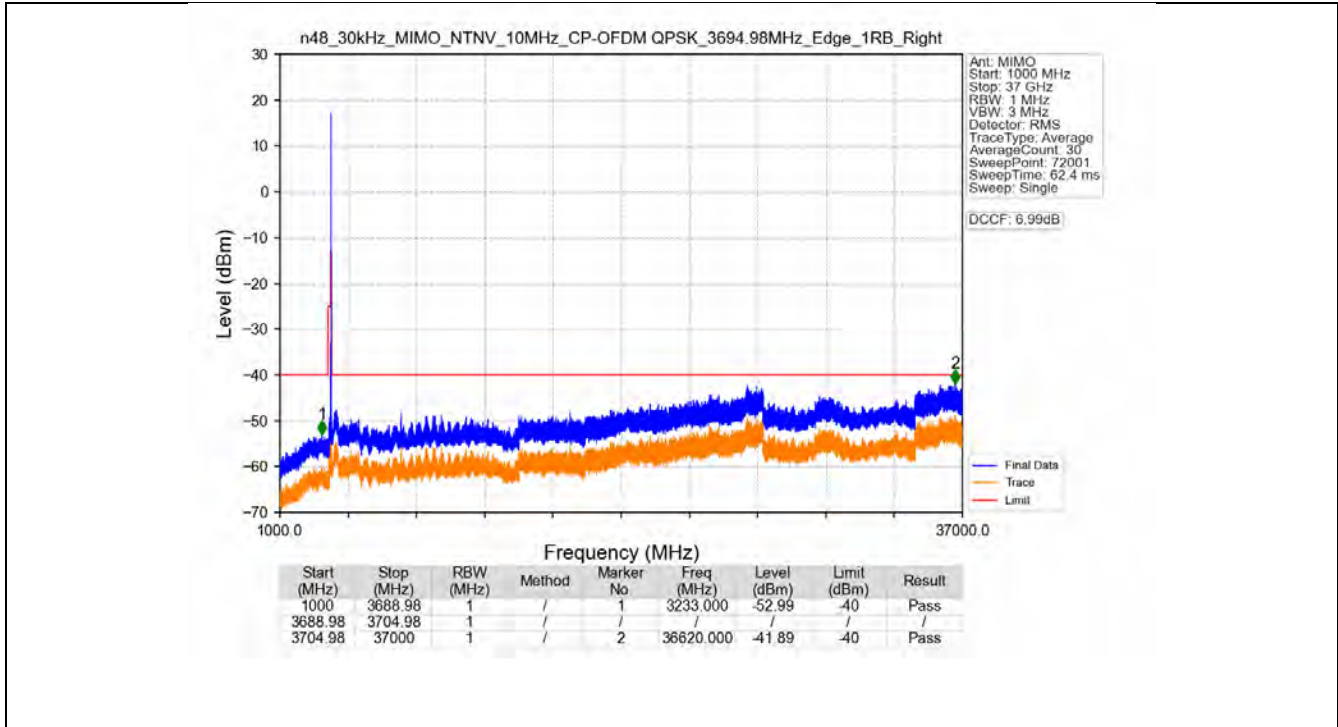


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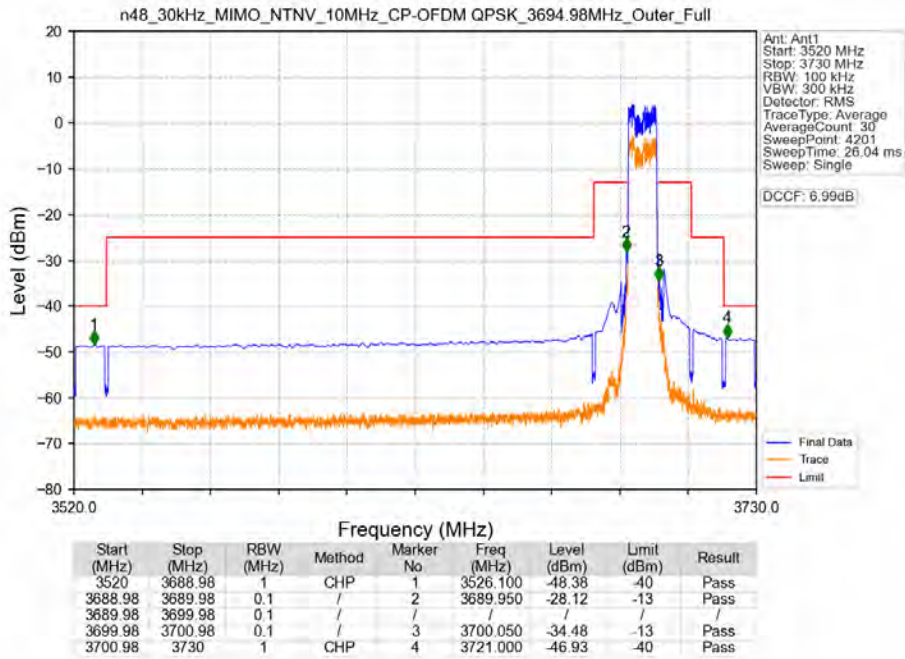
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3694.98MHz_Outer_Full



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM QPSK_3694.98MHz_Outer_Full



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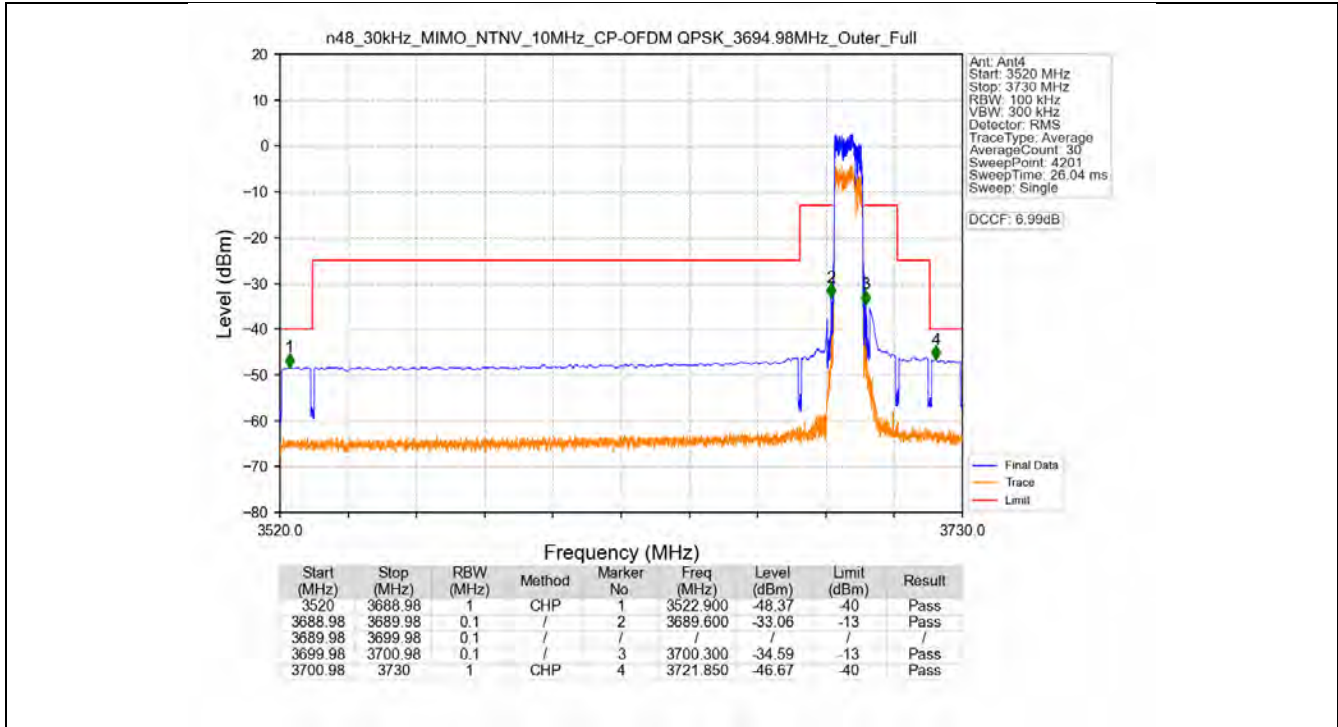


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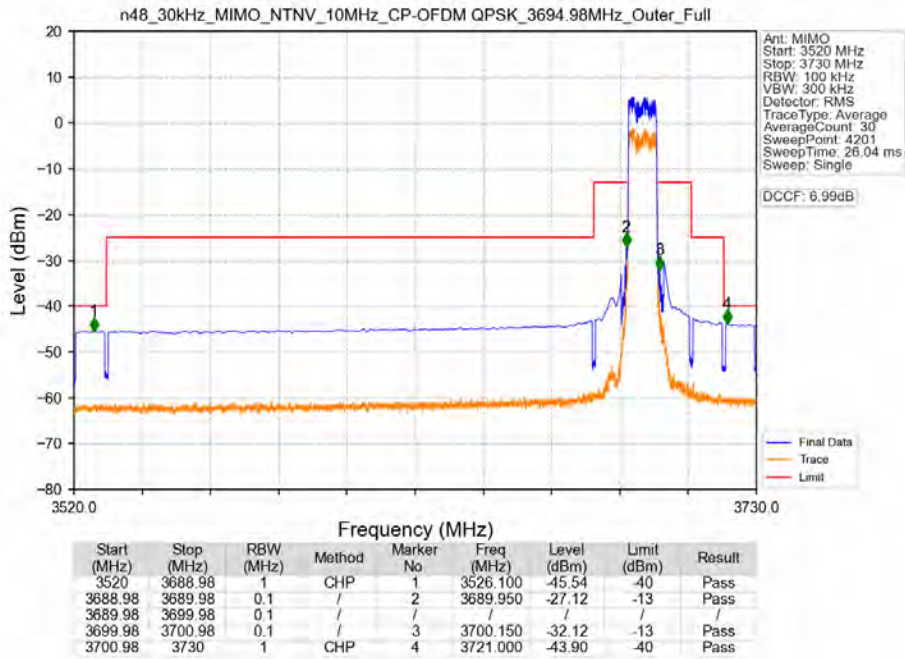
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_QPSK_3694.98MHz_Outer_Full



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_QPSK_3694.98MHz_Inner_1RB_Right



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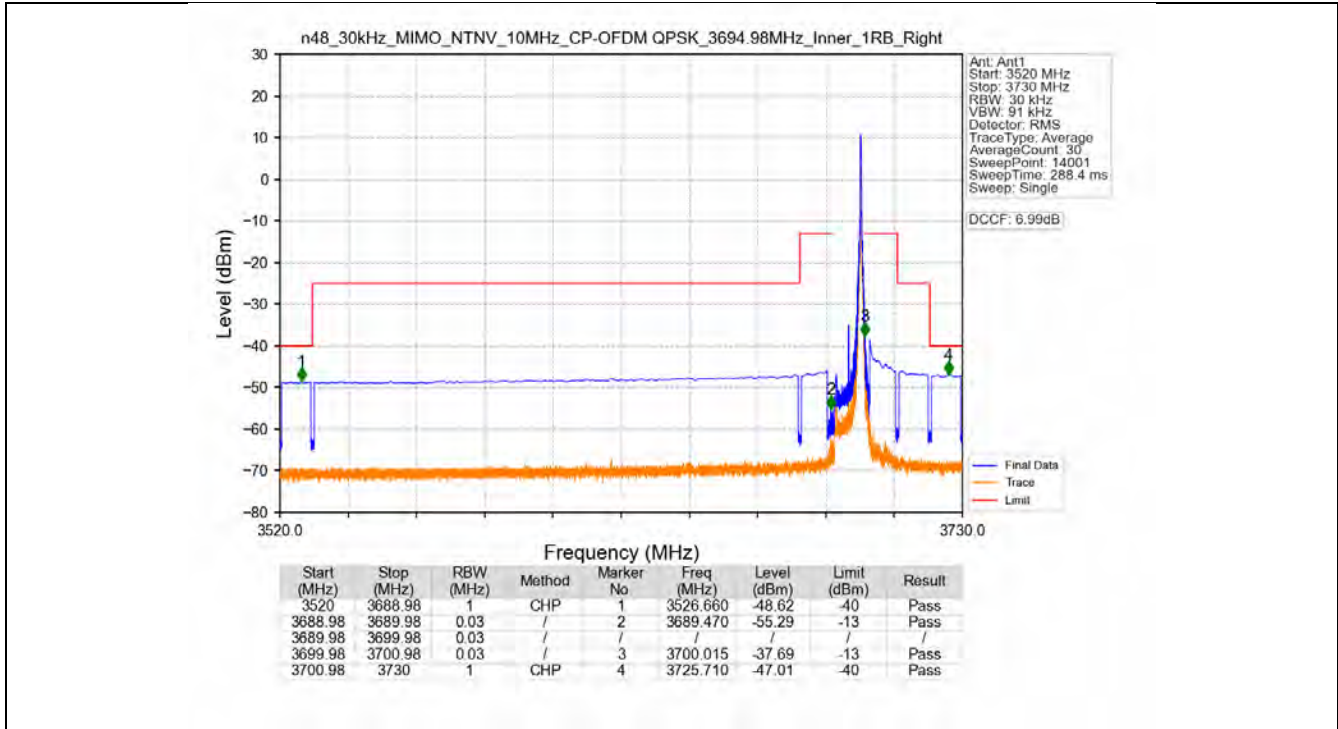


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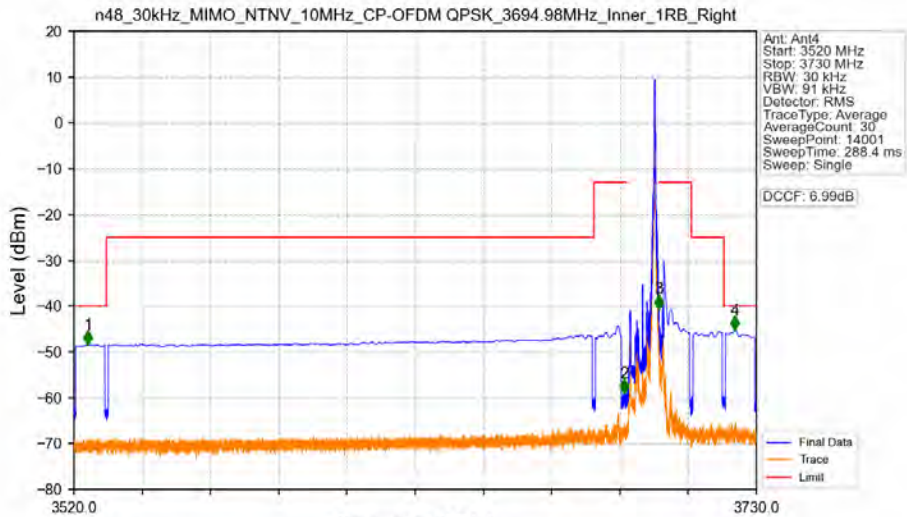
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n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_QPSK_3694.98MHz_Inner_1RB_Right



n48_30kHz_MIMO_NTNV_10MHz_CP-OFDM_QPSK_3694.98MHz_Inner_1RB_Right



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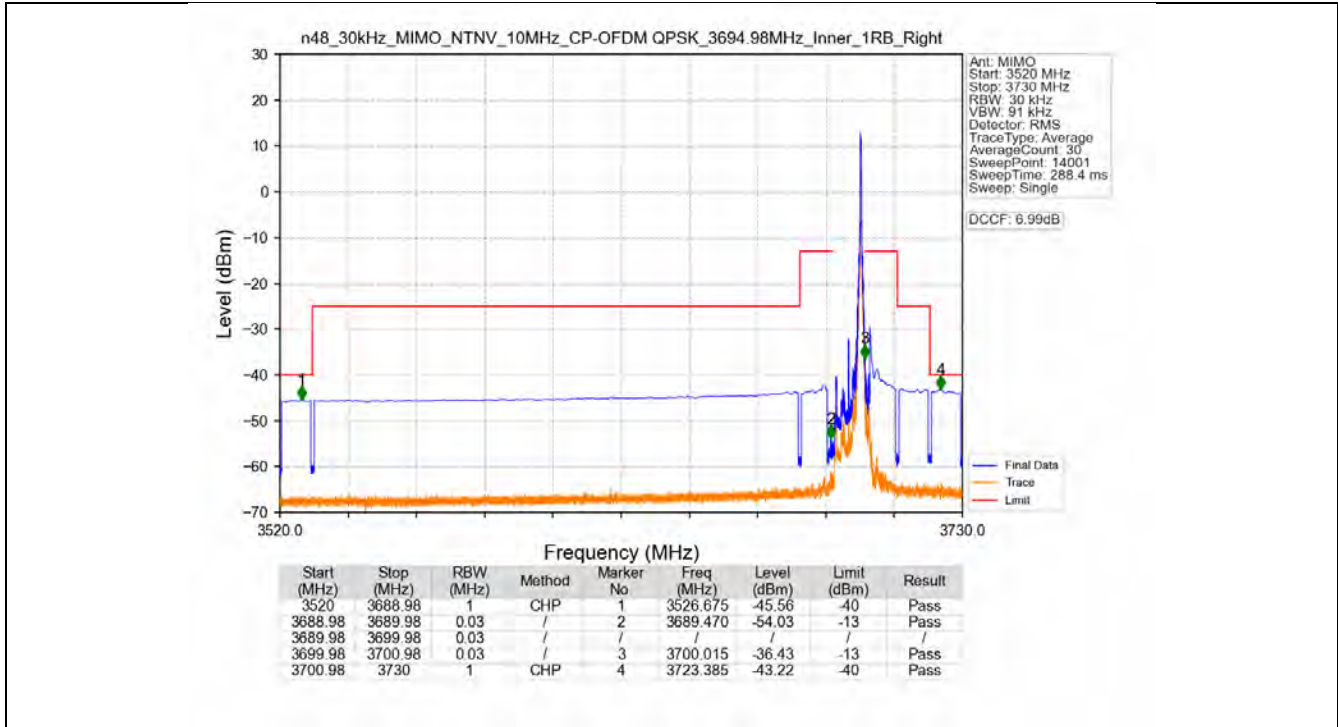


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5.5 30k_MIMO_20MHz_NTNV

5.5.1 Test Result

5G NR n48 SCS=30kHz MIMO 20MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant1	Ant4	Sum	Limit	
CP-OFDM QPSK	3560.01	Edge_1RB_Left	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
	3690	Inner_1RB_Left	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
	Outer_Full	Refer To Test Graph				Pass	
		Refer To Test Graph				Pass	
		Refer To Test Graph				Pass	
	Inner_1RB_Right	Refer To Test Graph				Pass	
Refer To Test Graph				Pass			



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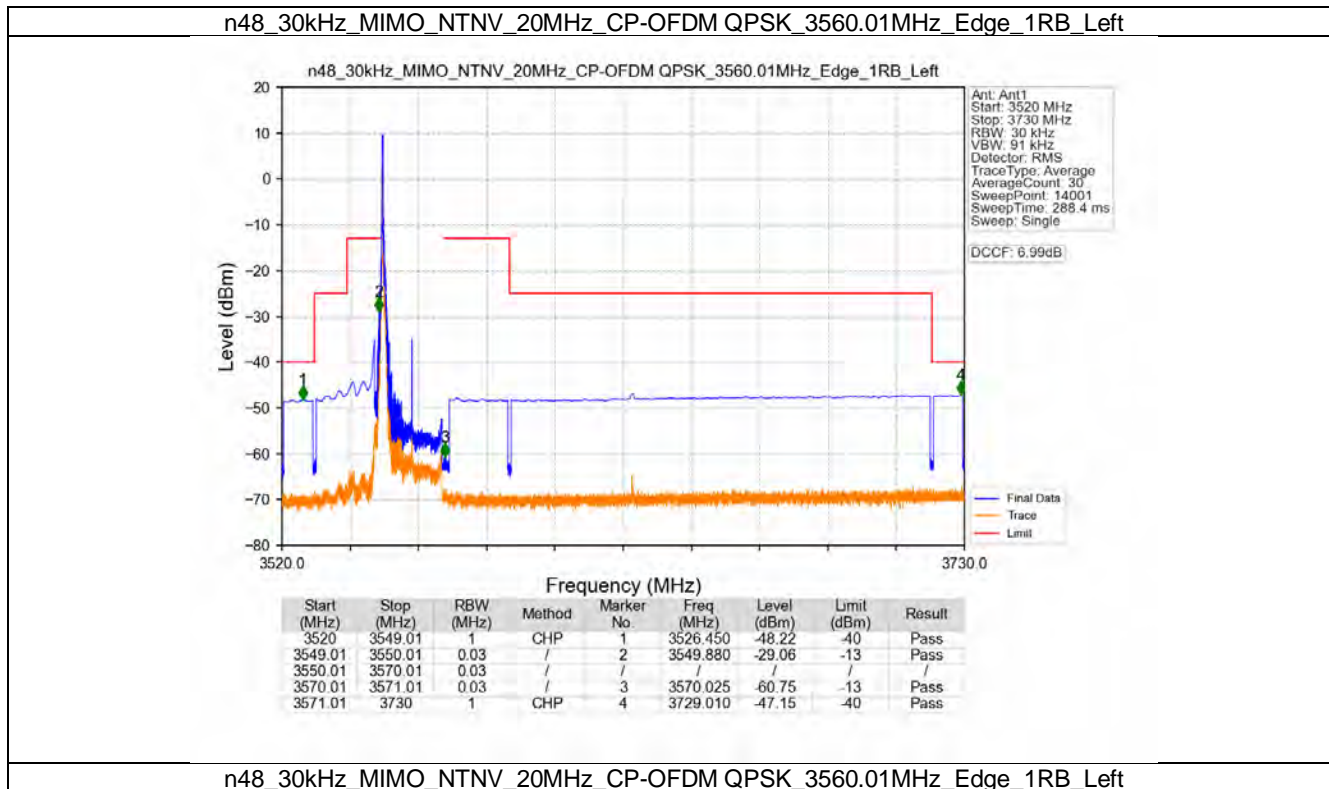
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5.5.2 Test Graph



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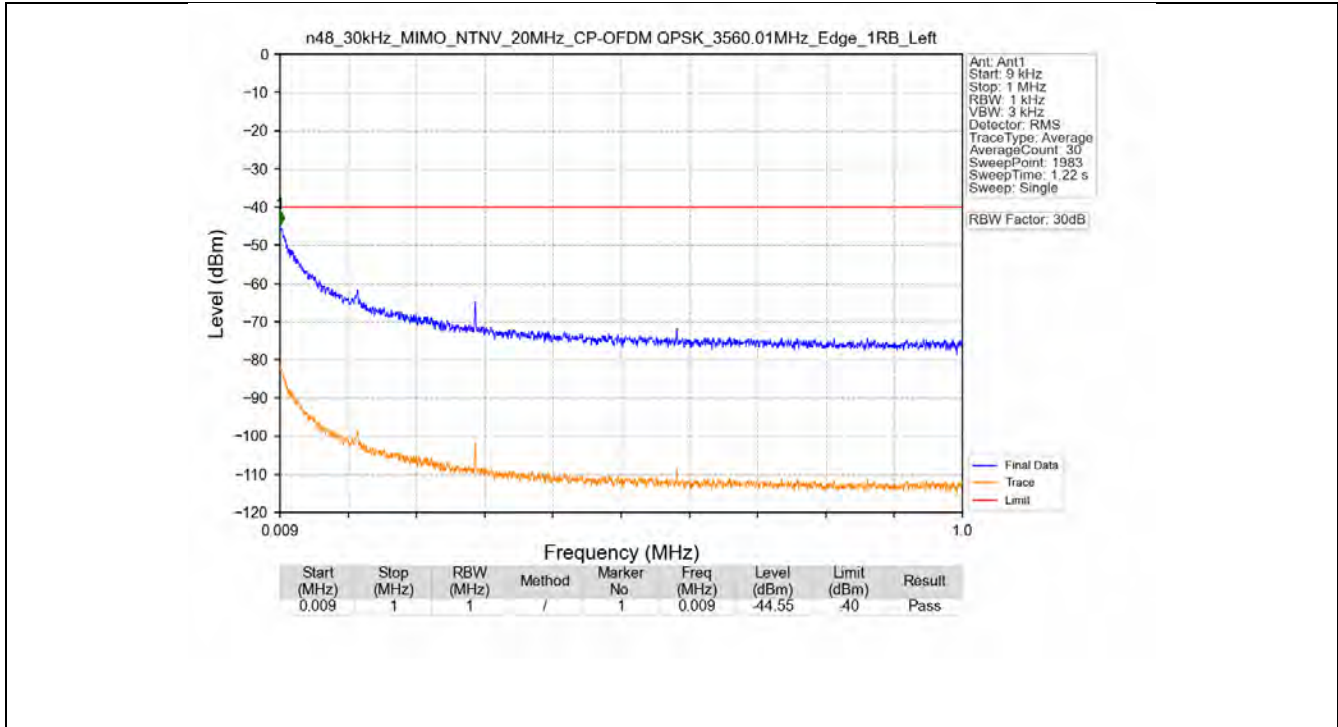


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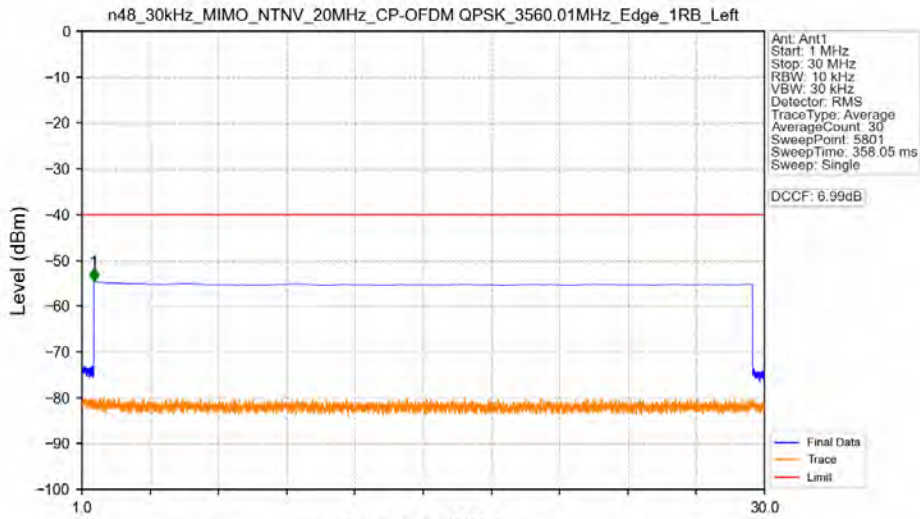
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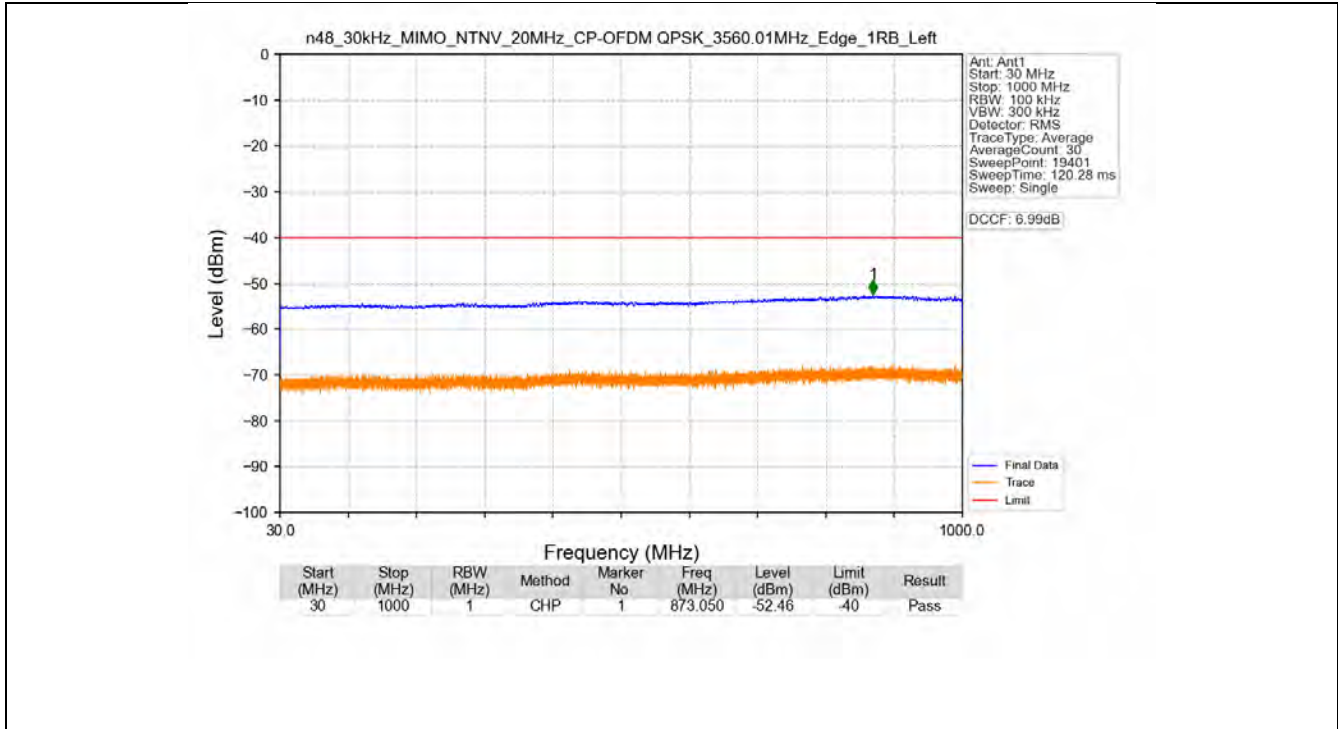


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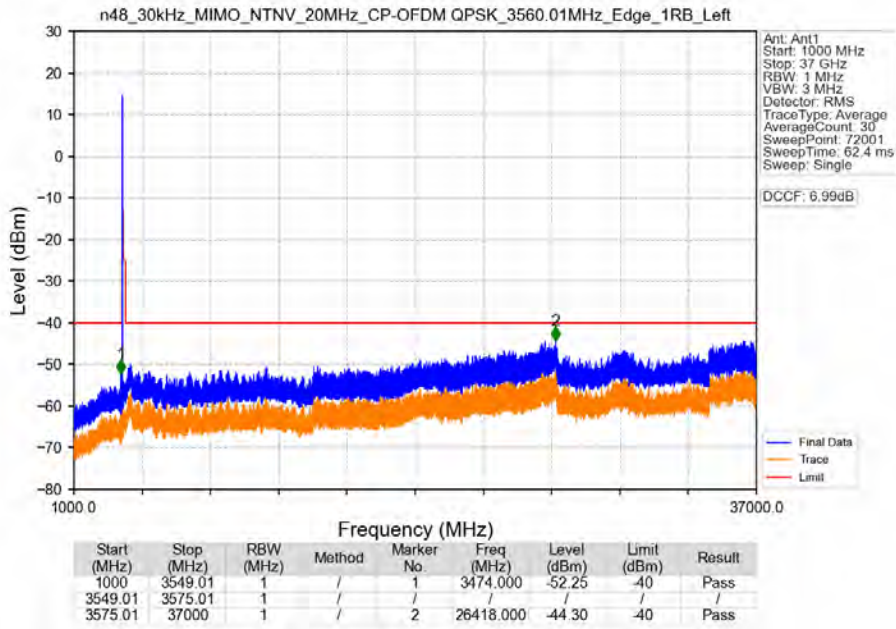
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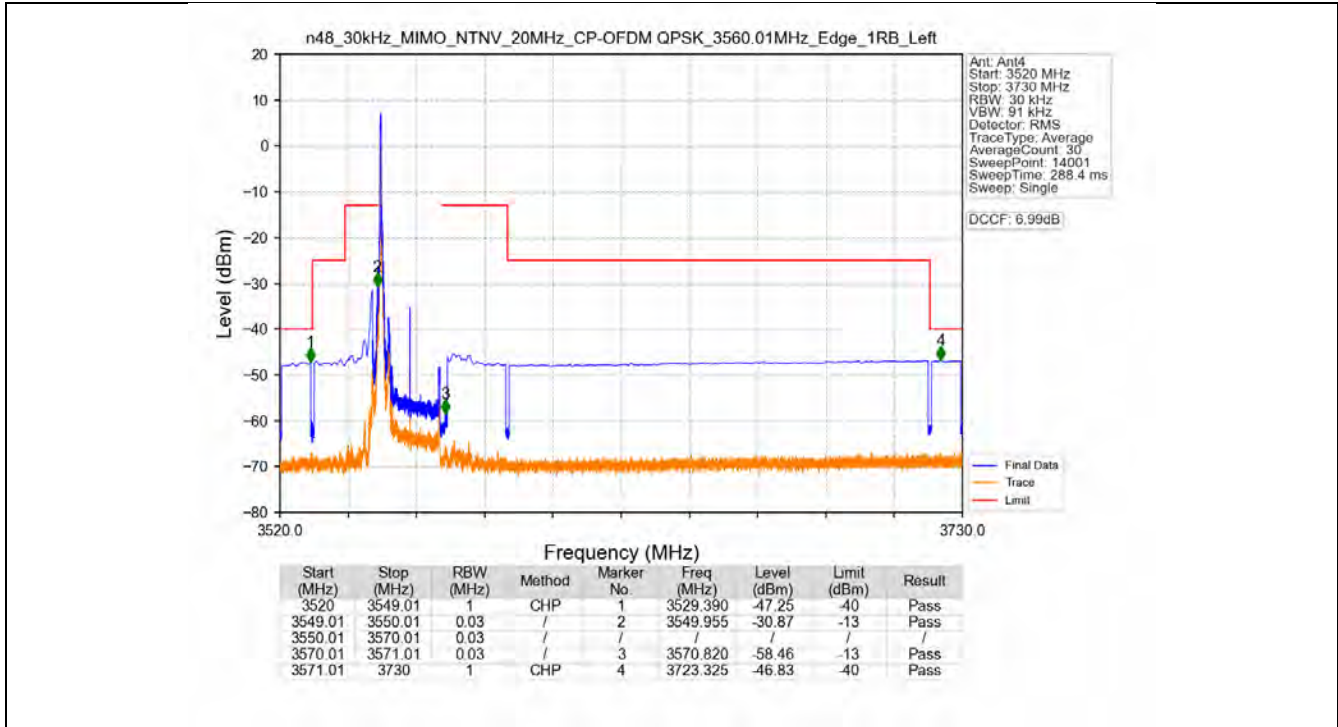


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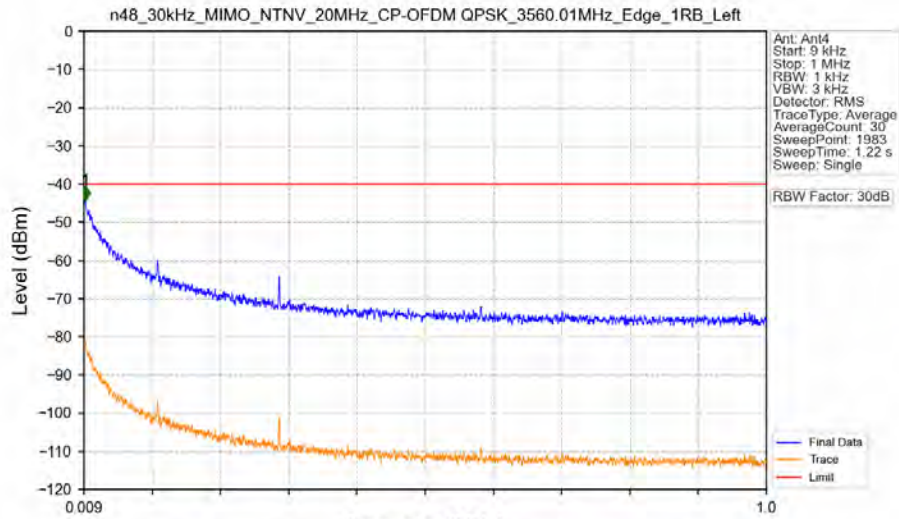
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM_QPSK_3560.01MHz_Edge_1RB_Left



n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM_QPSK_3560.01MHz_Edge_1RB_Left



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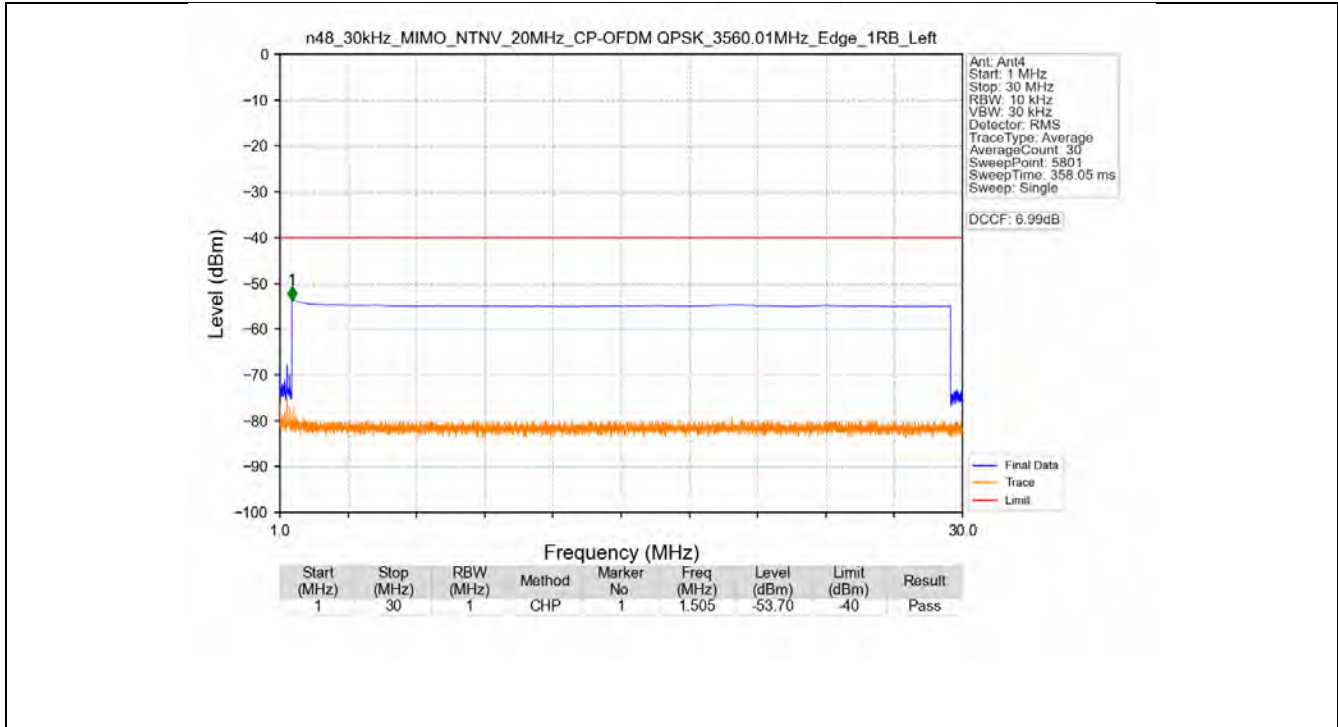


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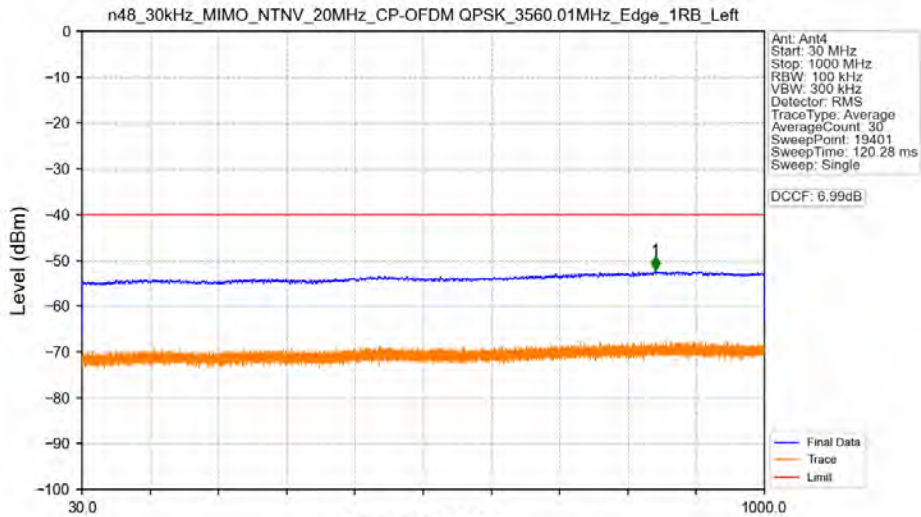
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM_QPSK_3560.01MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	844.650	-52.25	-40	Pass

n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM_QPSK_3560.01MHz_Edge_1RB_Left



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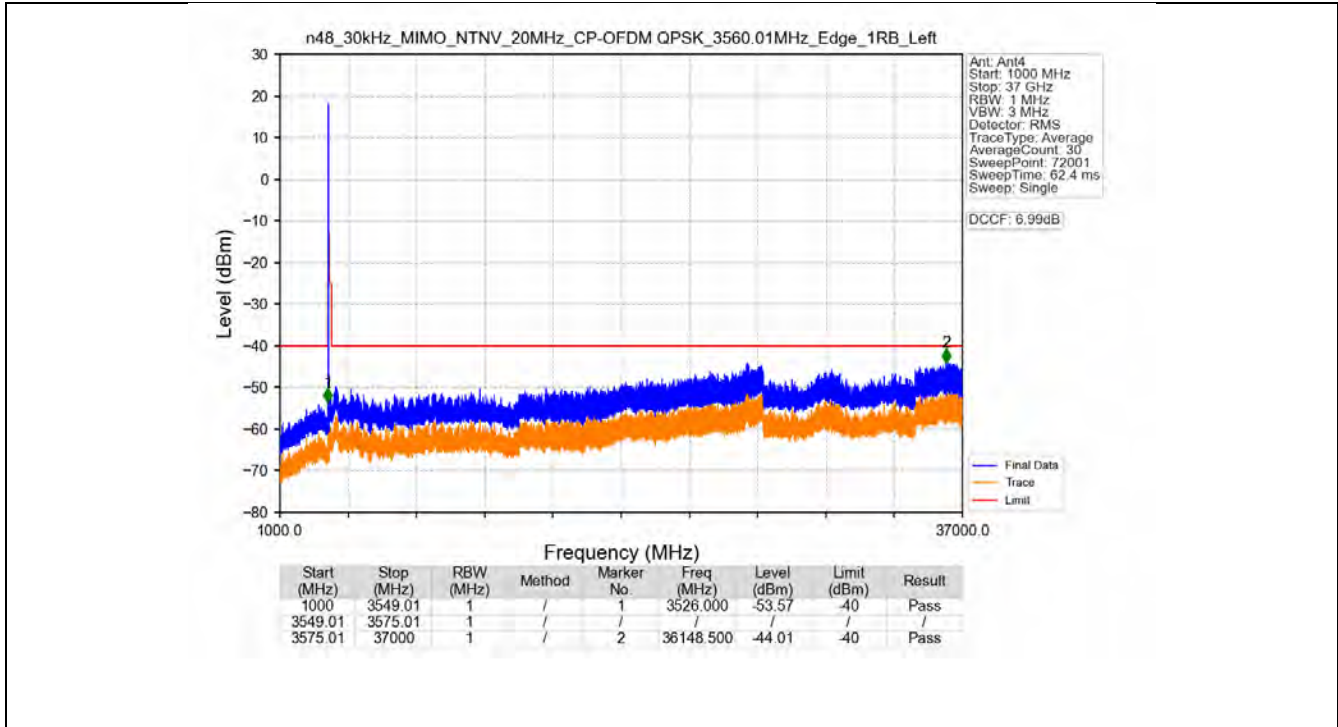


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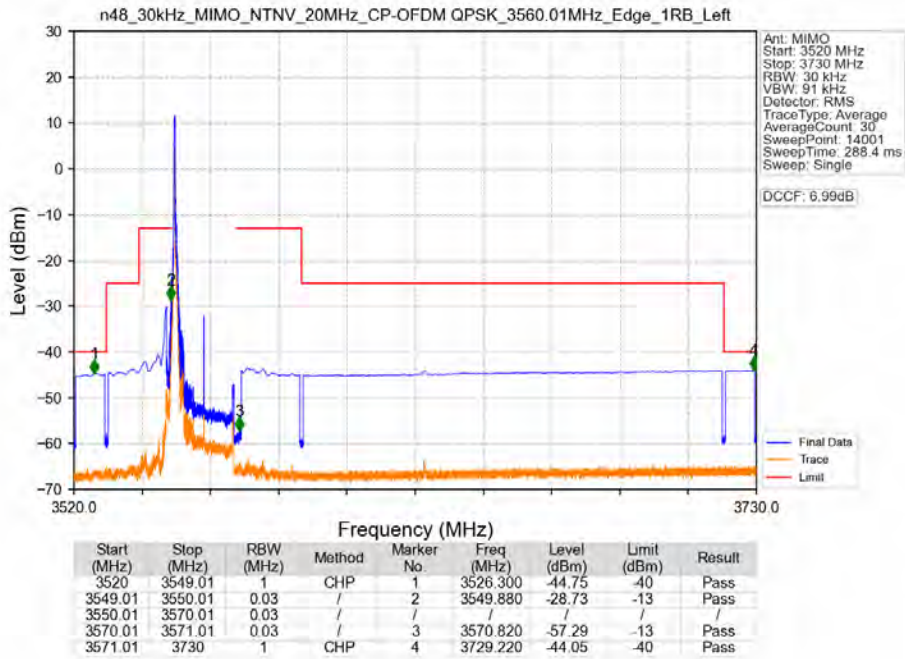
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM_QPSK_3560.01MHz_Edge_1RB_Left



n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM_QPSK_3560.01MHz_Edge_1RB_Left



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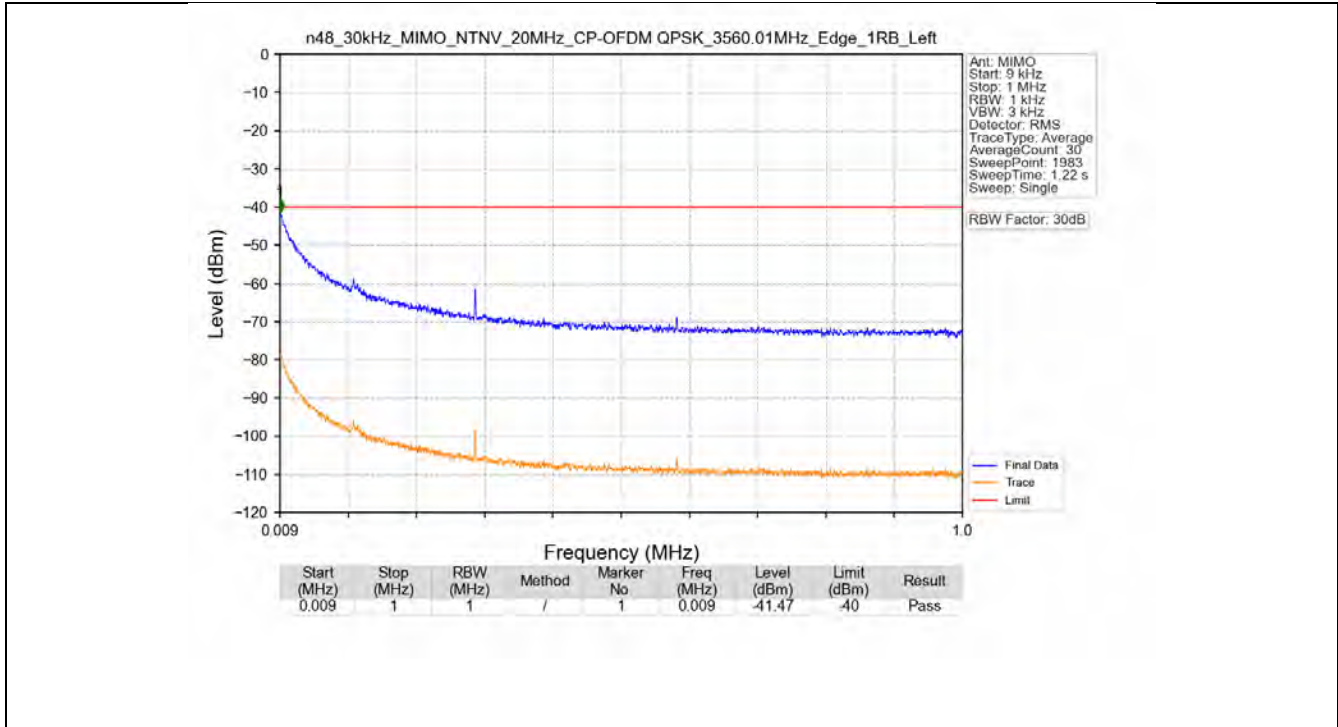


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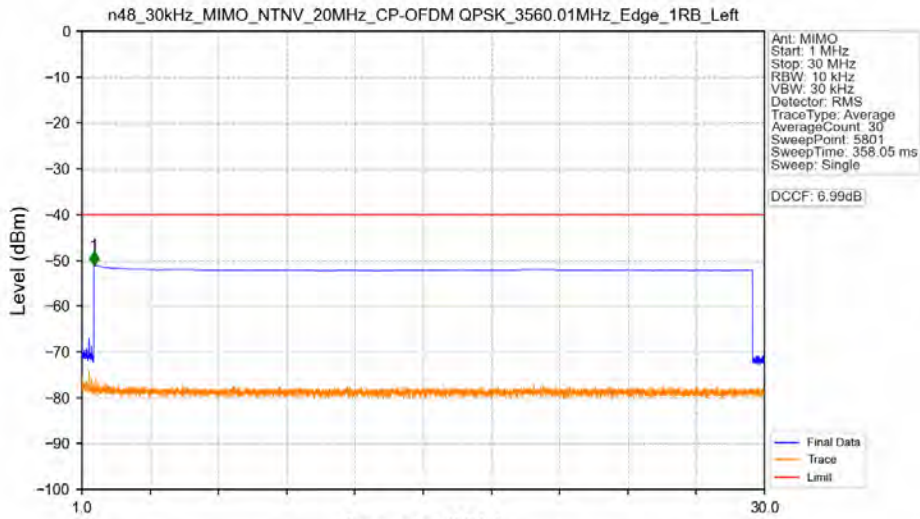
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM_QPSK_3560.01MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1	30	1	CHP	1	1.505	-51.15	-40	Pass

n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM_QPSK_3560.01MHz_Edge_1RB_Left



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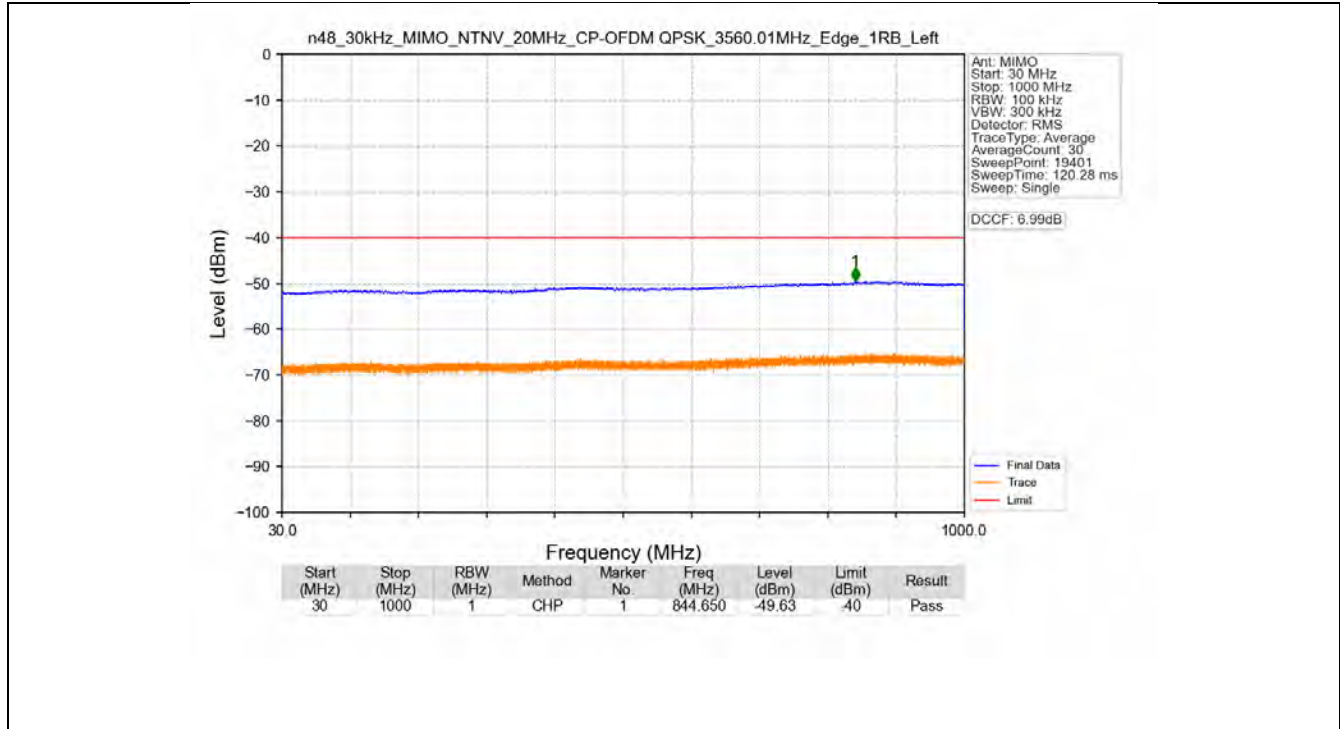


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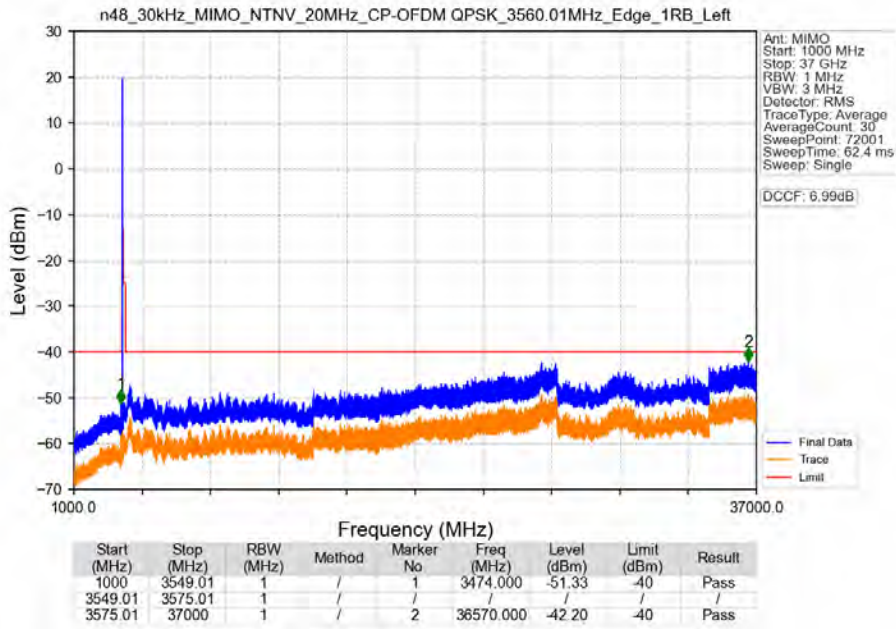
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3560.01MHz_Edge_1RB_Left



n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3560.01MHz_Outer_Full



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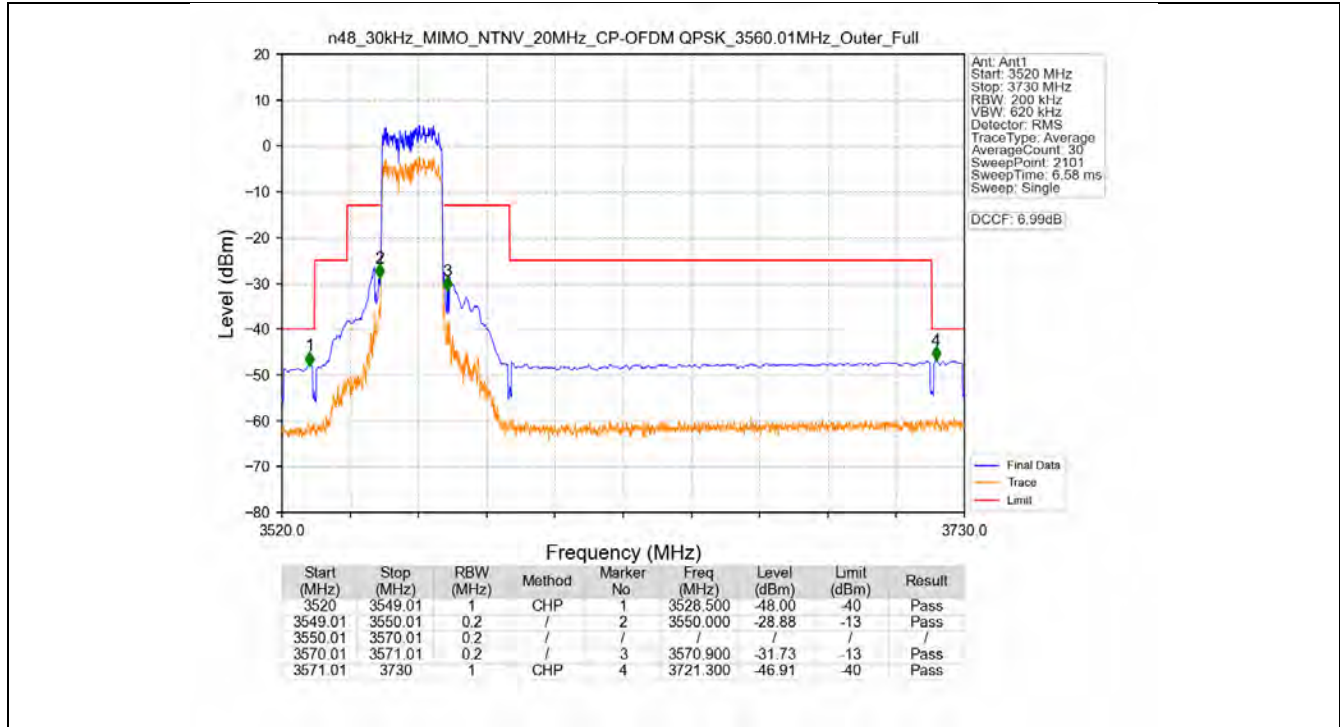


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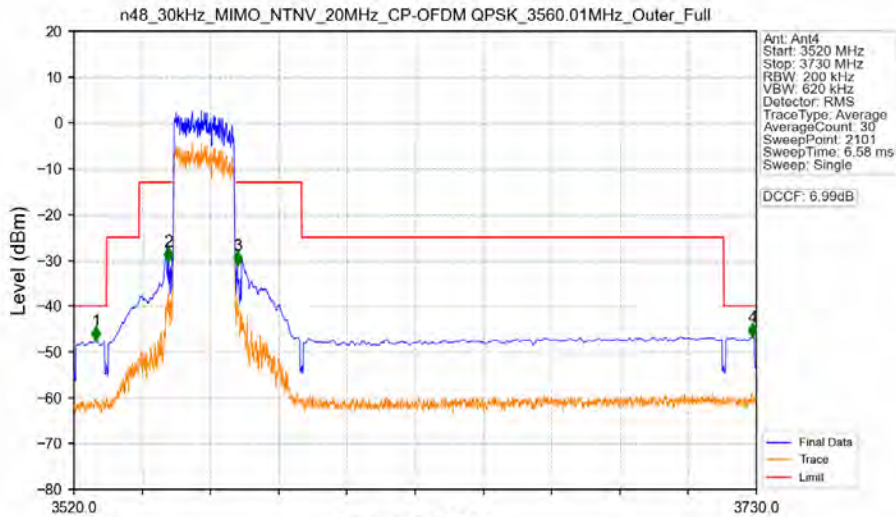
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3560.01MHz_Outer_Full



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3549.01	1	CHP	1	3526.800	-47.59	-40	Pass
3549.01	3550.01	0.2	/	2	3549.100	-30.33	-13	Pass
3550.01	3570.01	0.2	/	/	/	/	/	/
3570.01	3571.01	0.2	/	3	3570.300	-31.12	-13	Pass
3571.01	3730	1	CHP	4	3728.800	-46.83	-40	Pass

n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3560.01MHz_Outer_Full



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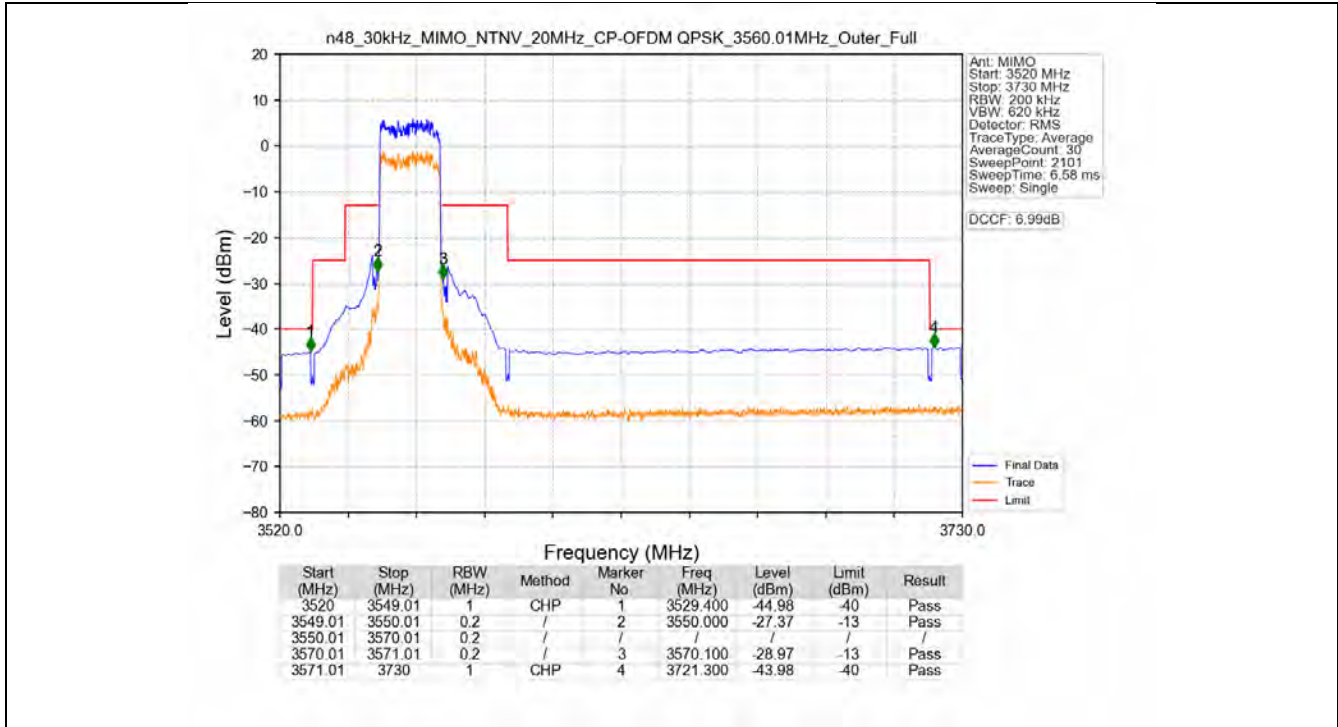


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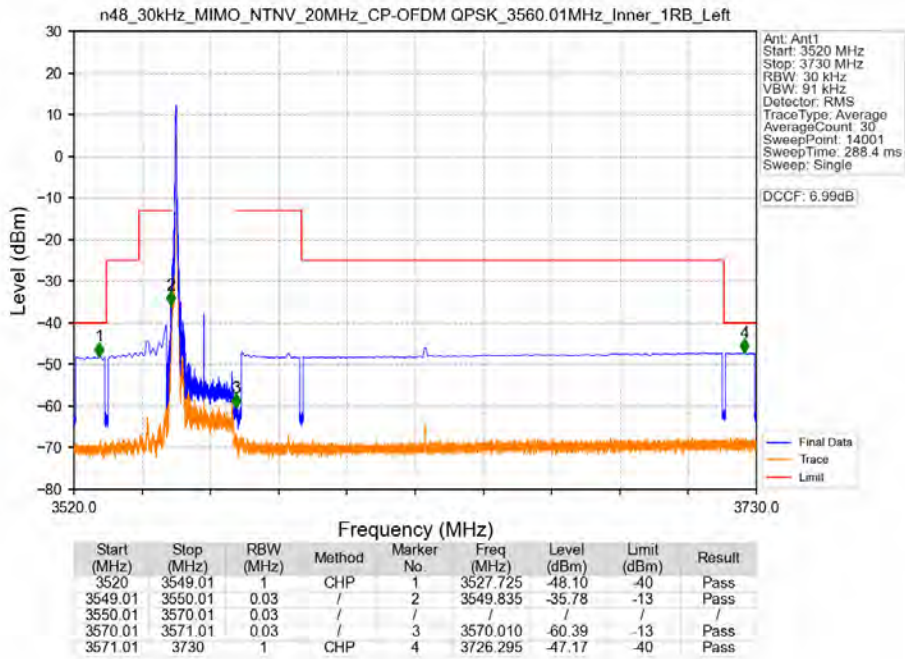
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3560.01MHz_Inner_1RB_Left



n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3560.01MHz_Inner_1RB_Left



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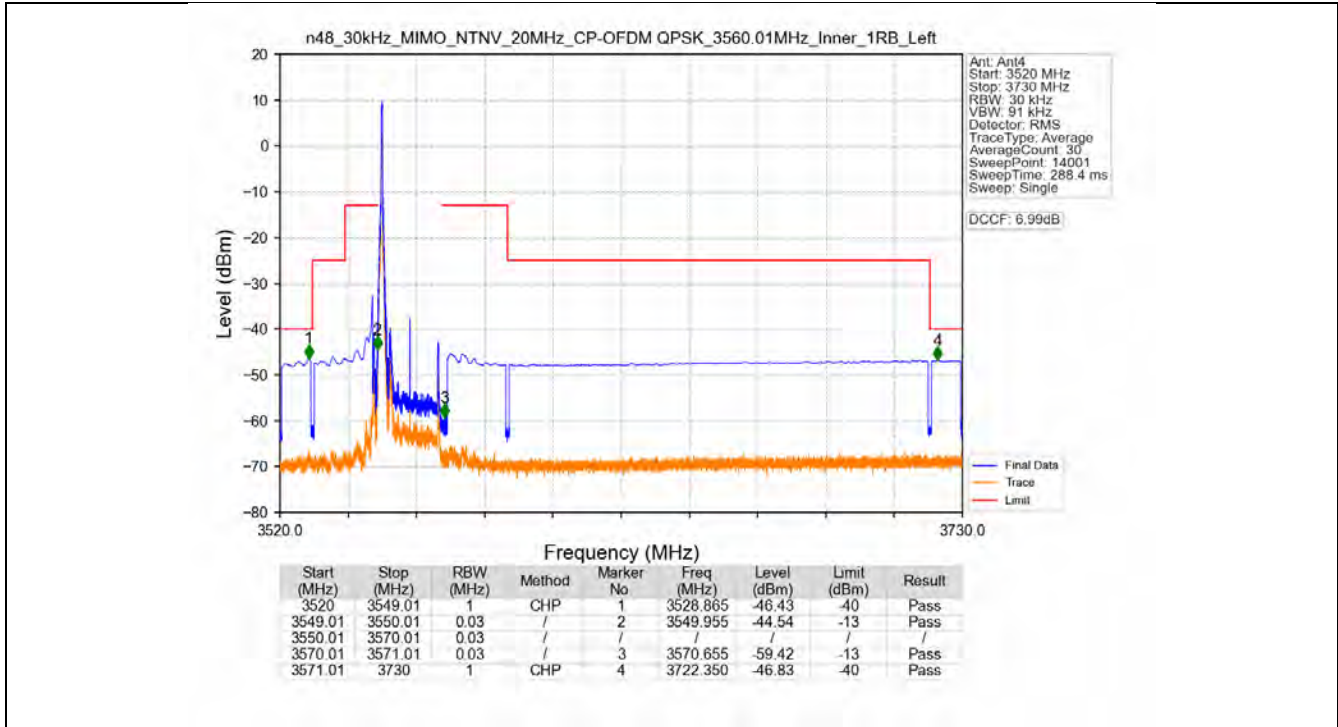


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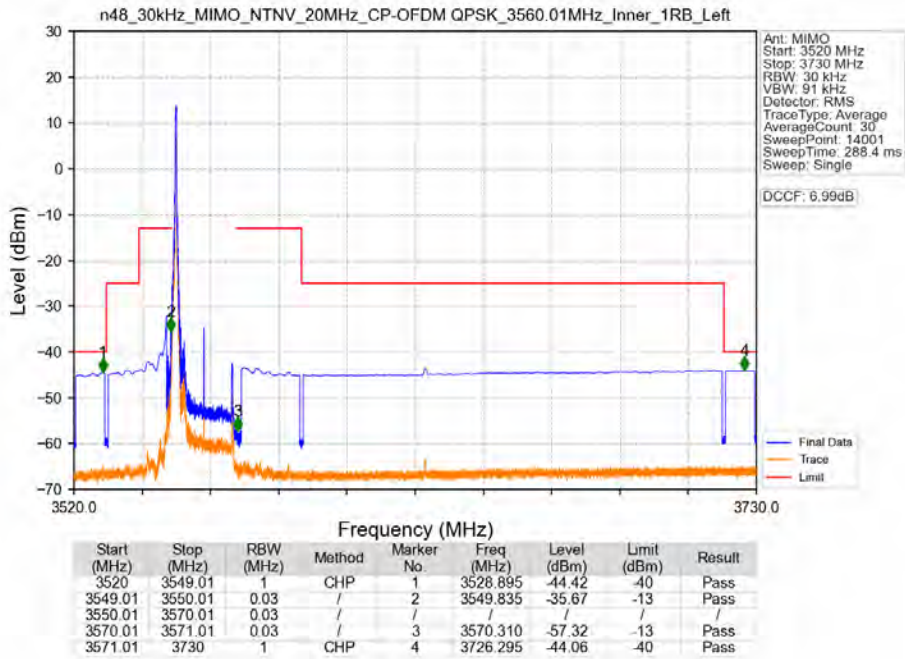
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3560.01MHz_Inner_1RB_Left



n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3690MHz_Edge_1RB_Right



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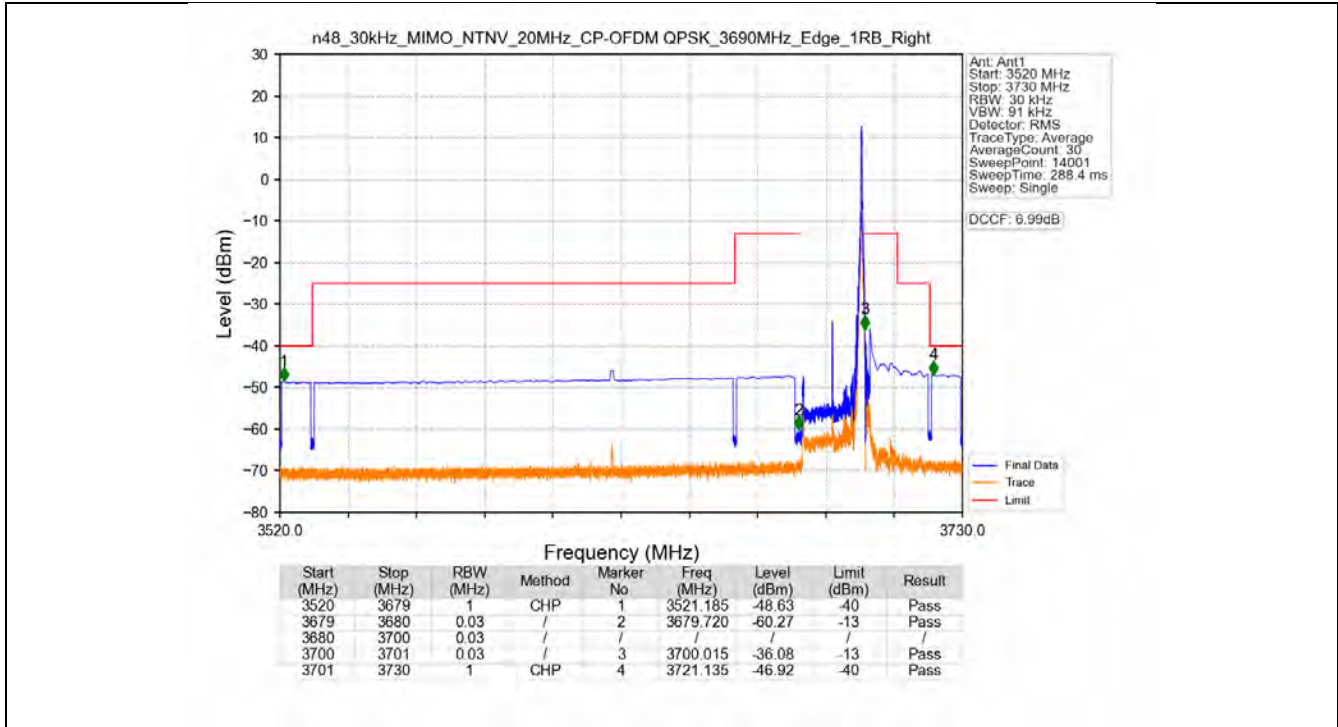


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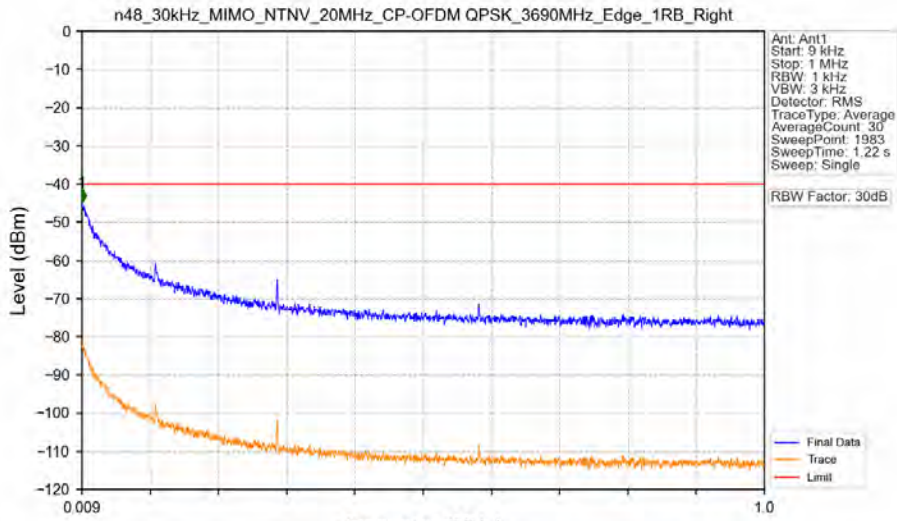
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3690MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	1	1	/	1	0.009	-44.87	40	Pass

n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3690MHz_Edge_1RB_Right



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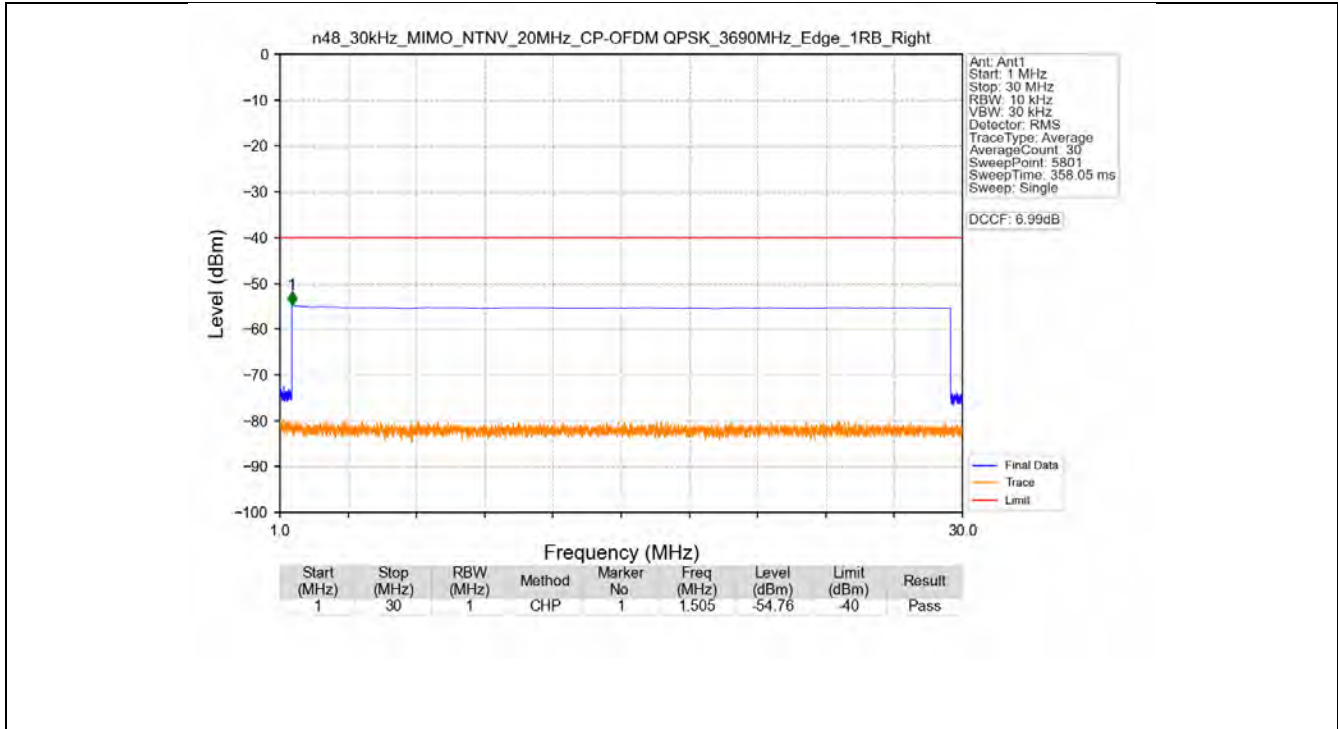


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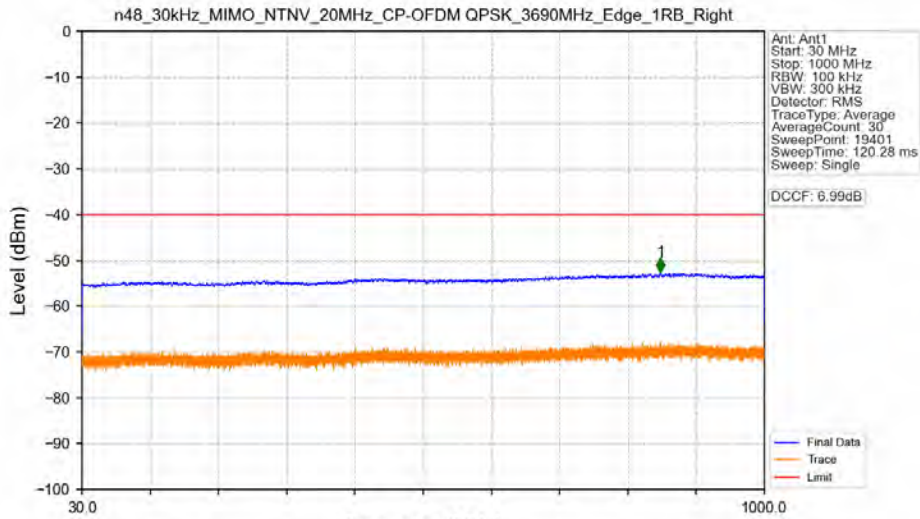
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3690MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	852.350	-52.63	-40	Pass

n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3690MHz_Edge_1RB_Right



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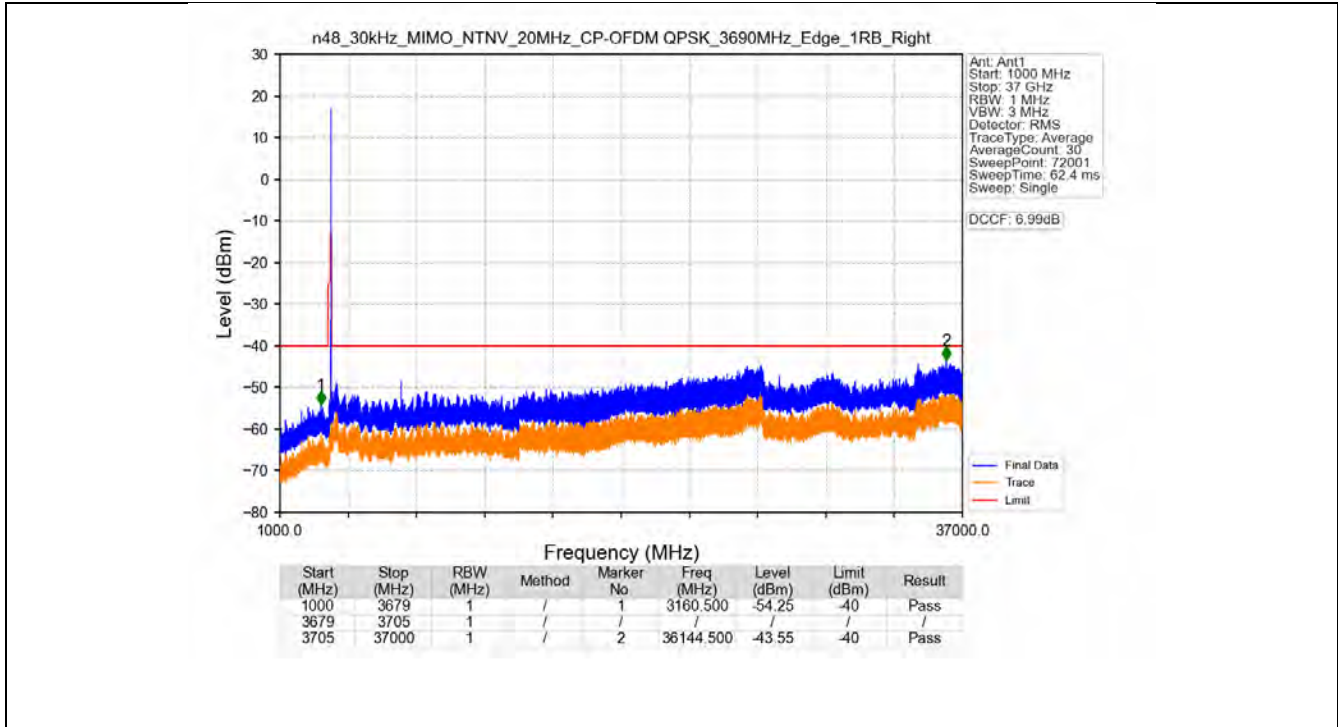


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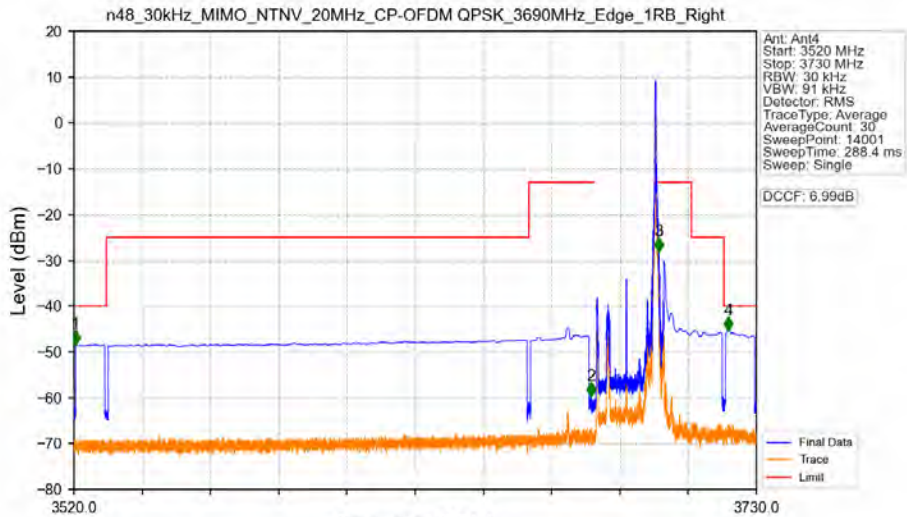
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3690MHz_Edge_1RB_Right



n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3690MHz_Edge_1RB_Right



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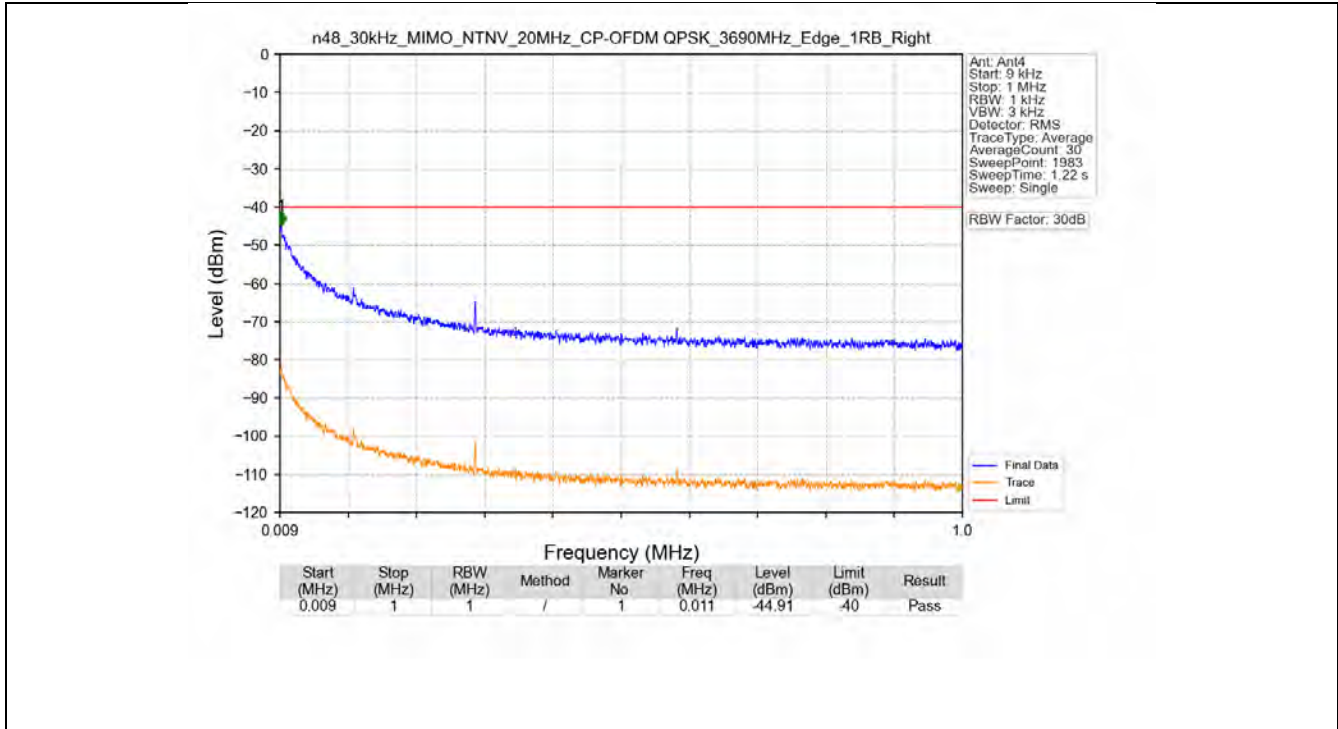


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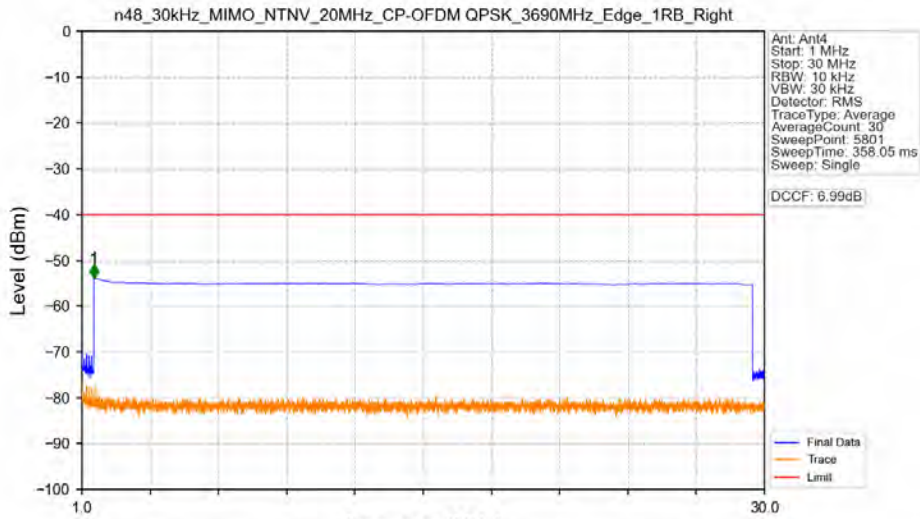
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3690MHz_Edge_1RB_Right



n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3690MHz_Edge_1RB_Right



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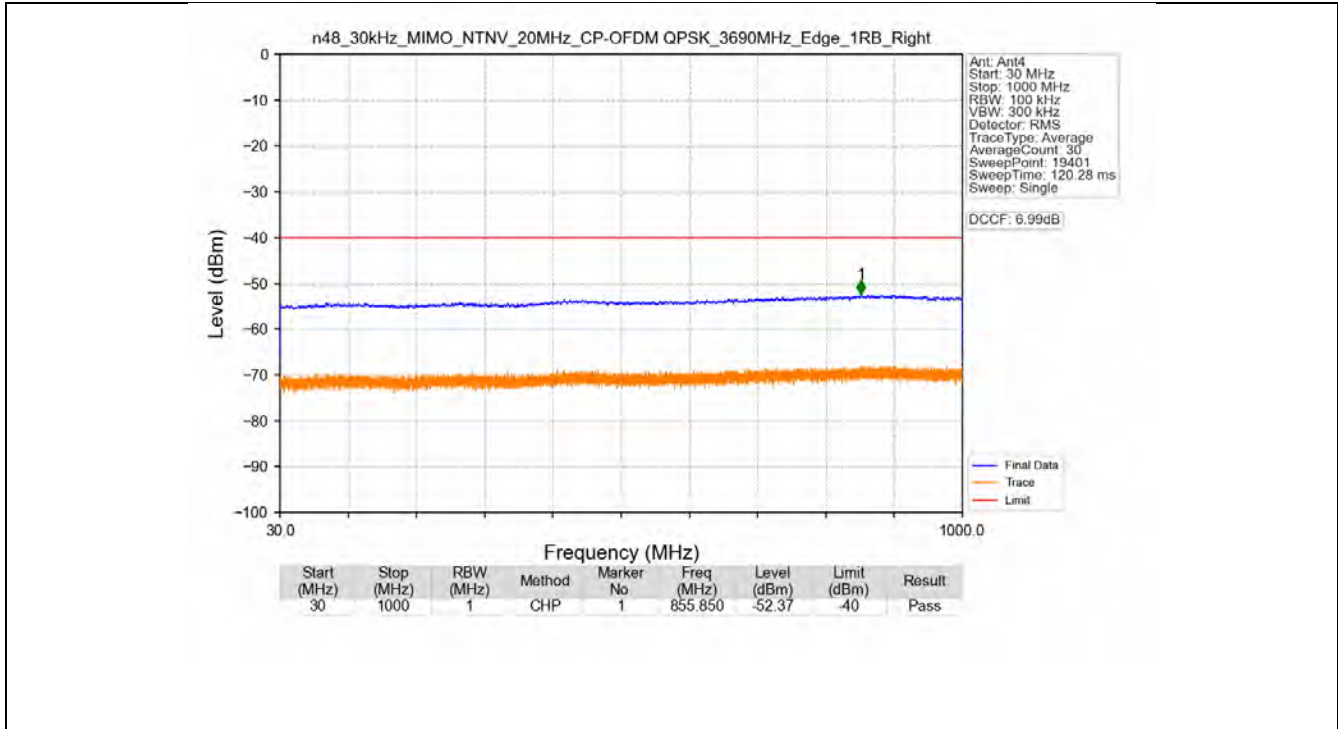


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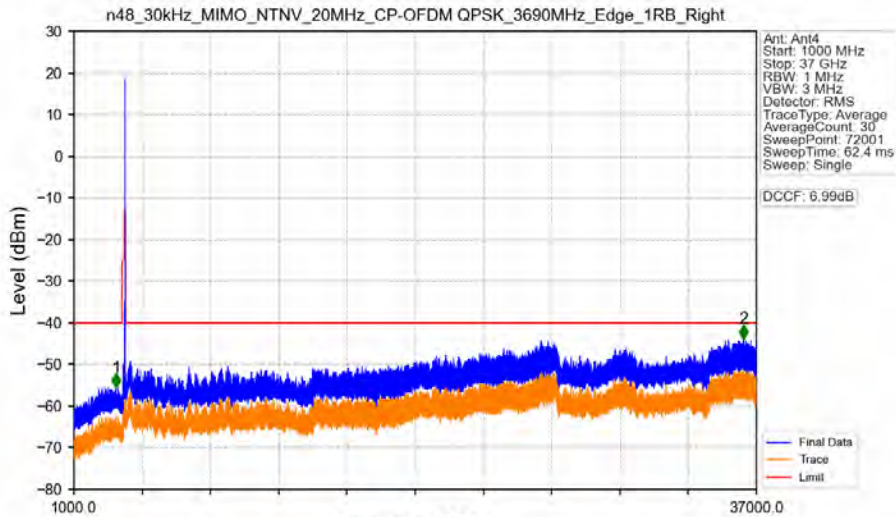
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3690MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	3679	1	/	1	3229.500	-55.51	-40	Pass
3679	3705	1	/	/	/	/	/	/
3705	37000	1	/	2	36321.500	-43.85	-40	Pass

n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3690MHz_Edge_1RB_Right



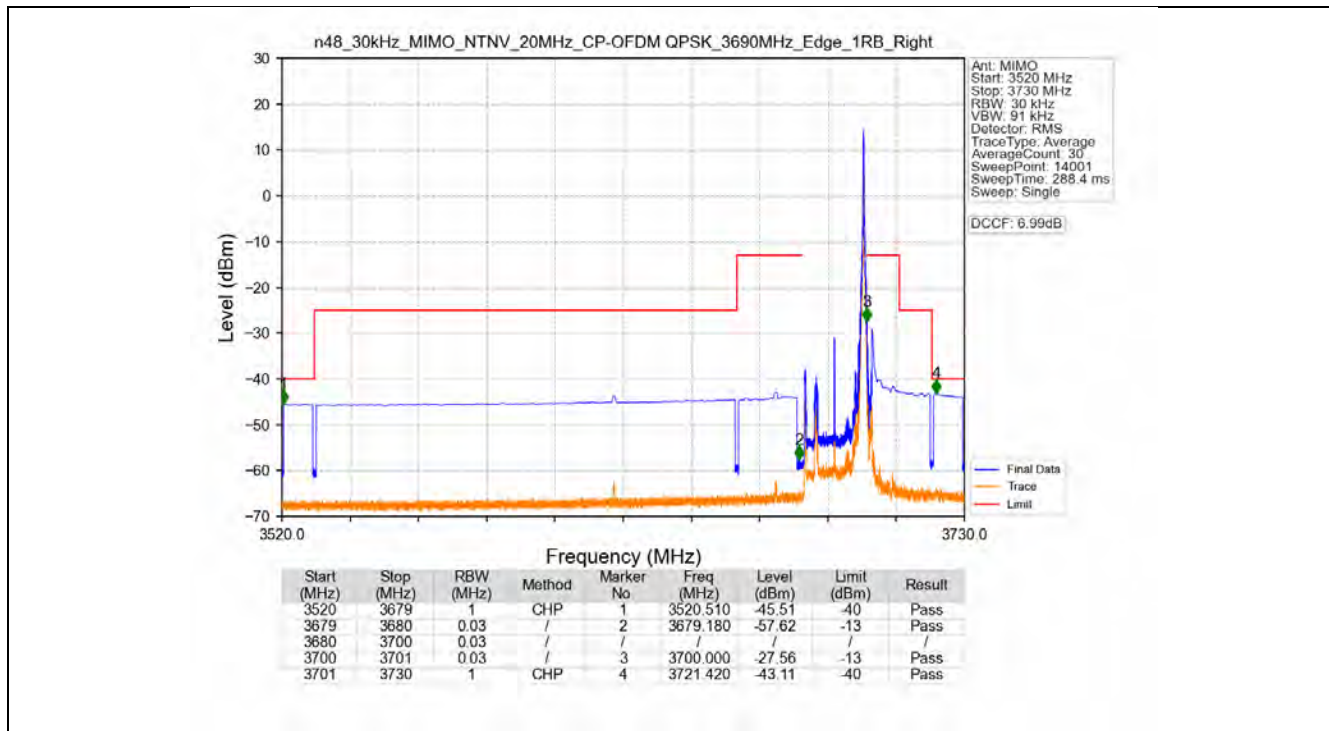
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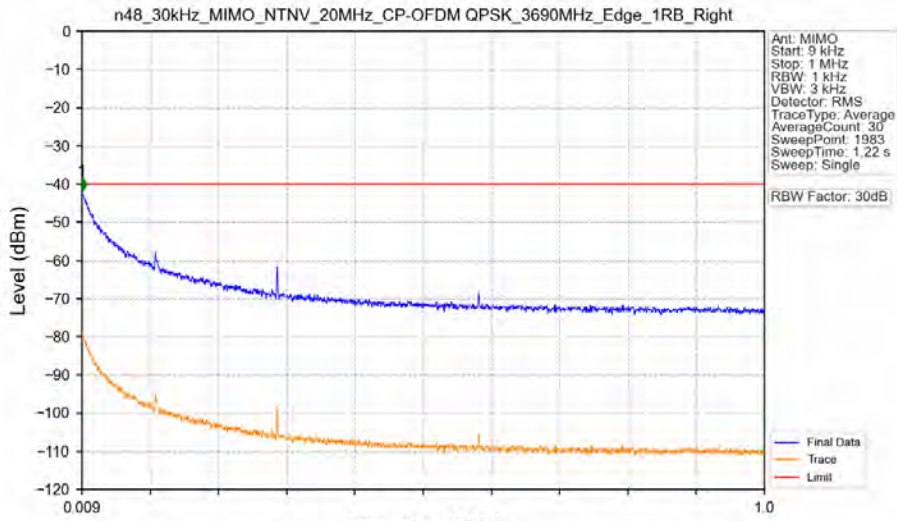
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3690MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	1	1	/	1	0.009	-41.94	-40	Pass

n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3690MHz_Edge_1RB_Right



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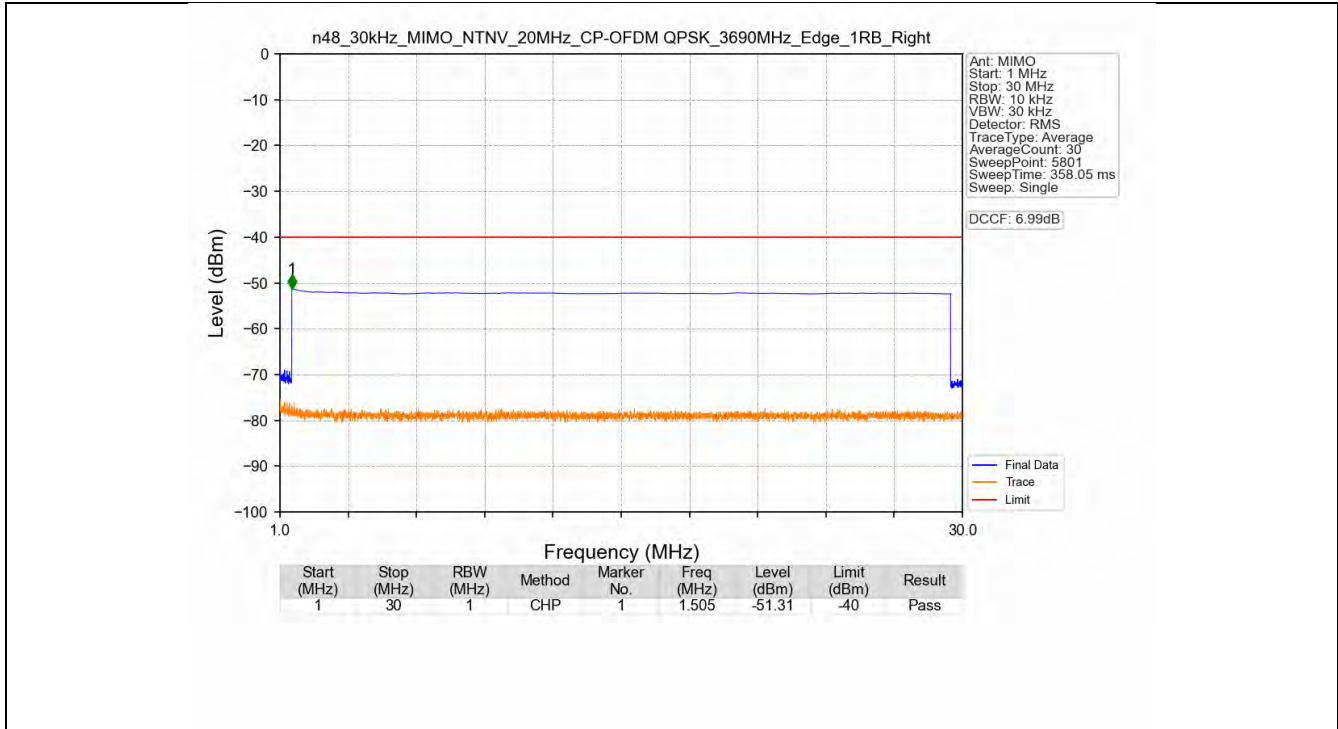


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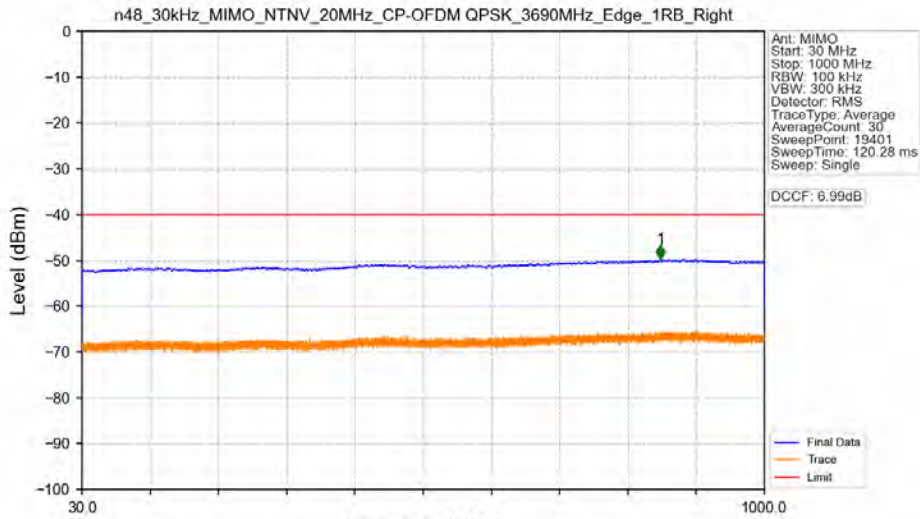
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3690MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	852.350	-49.73	-40	Pass

n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM QPSK_3690MHz_Edge_1RB_Right



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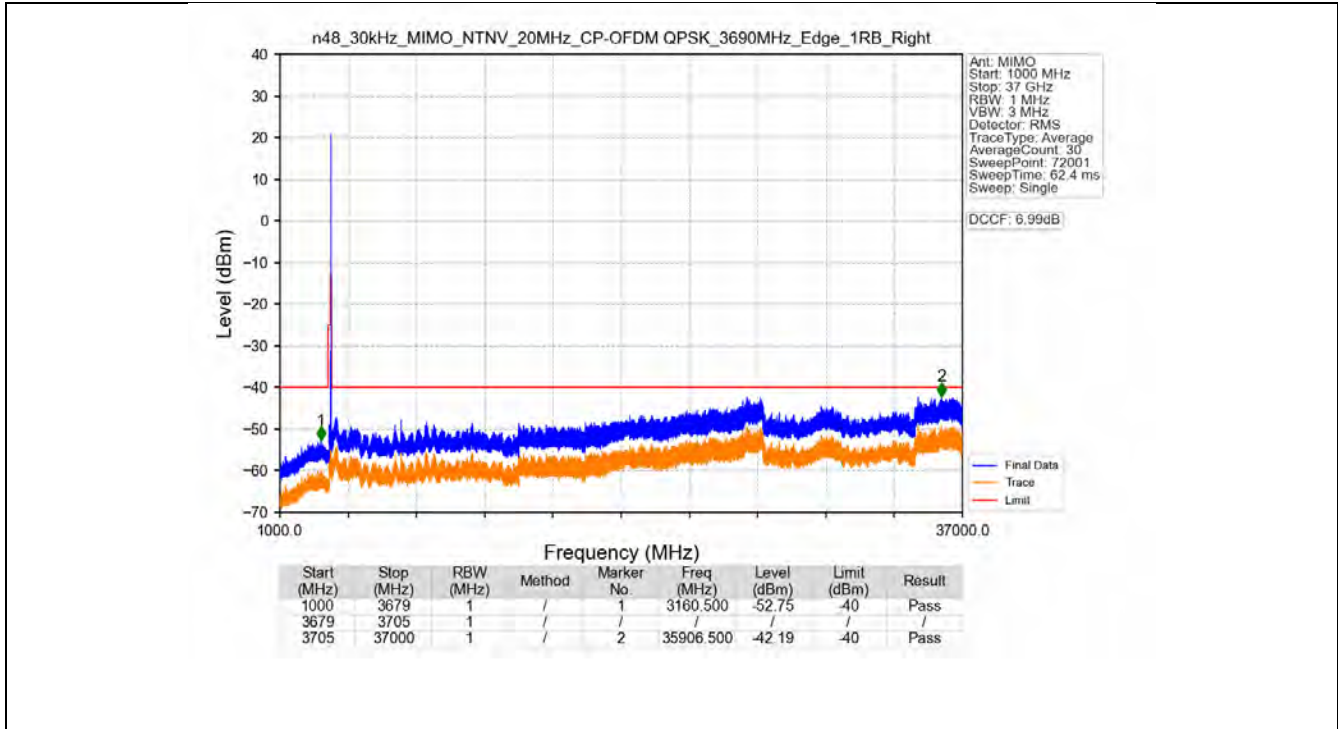


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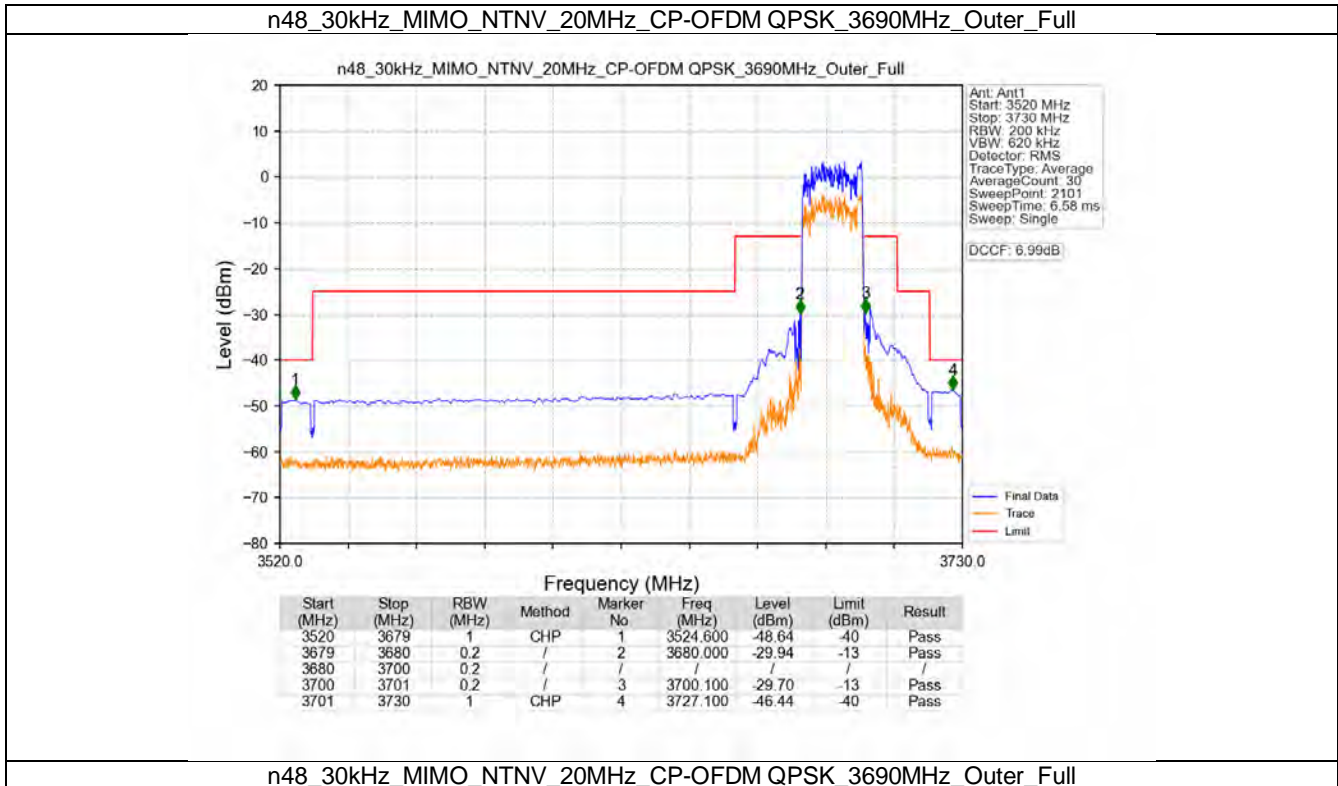


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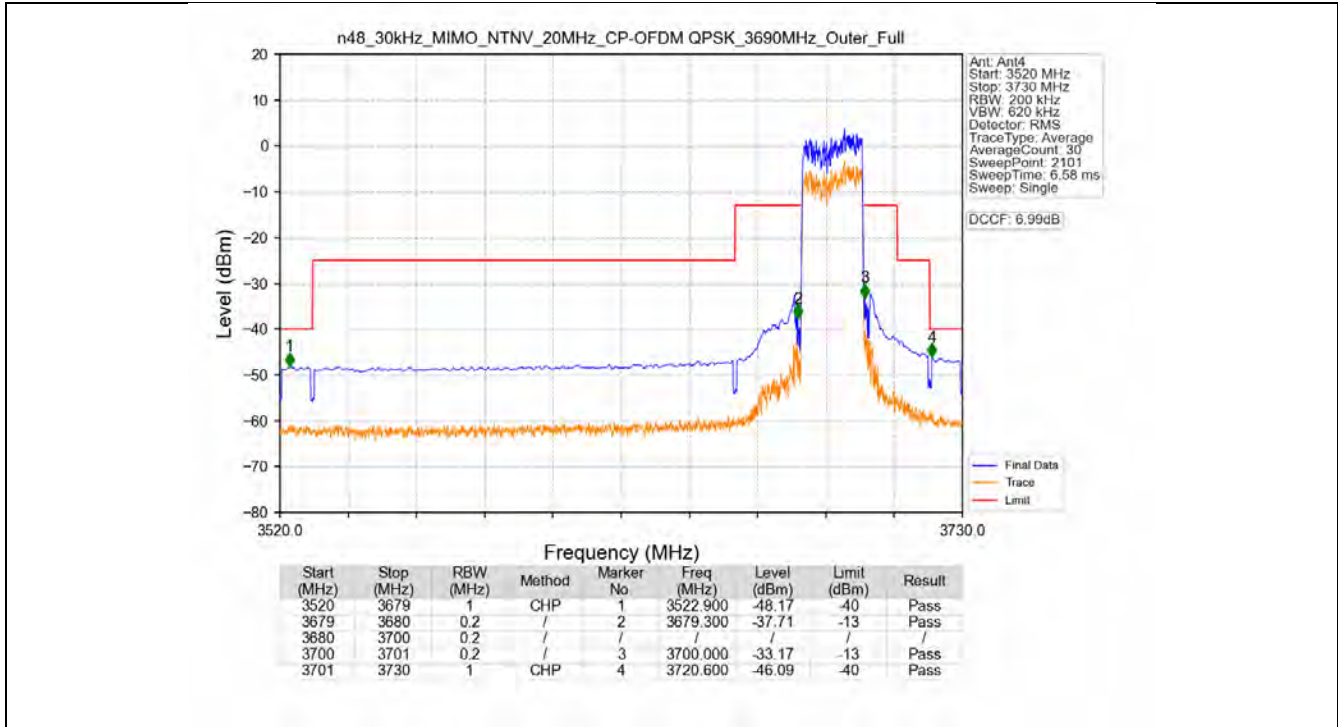


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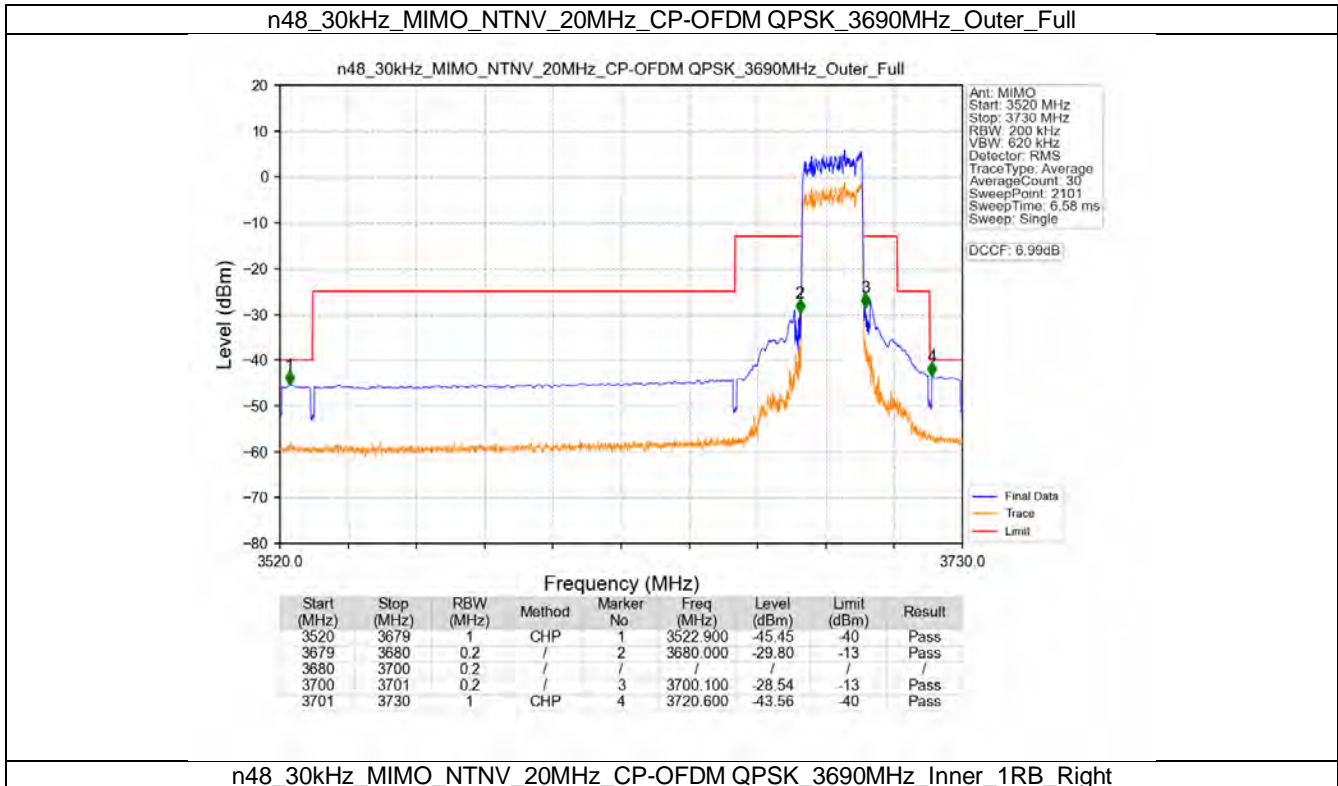


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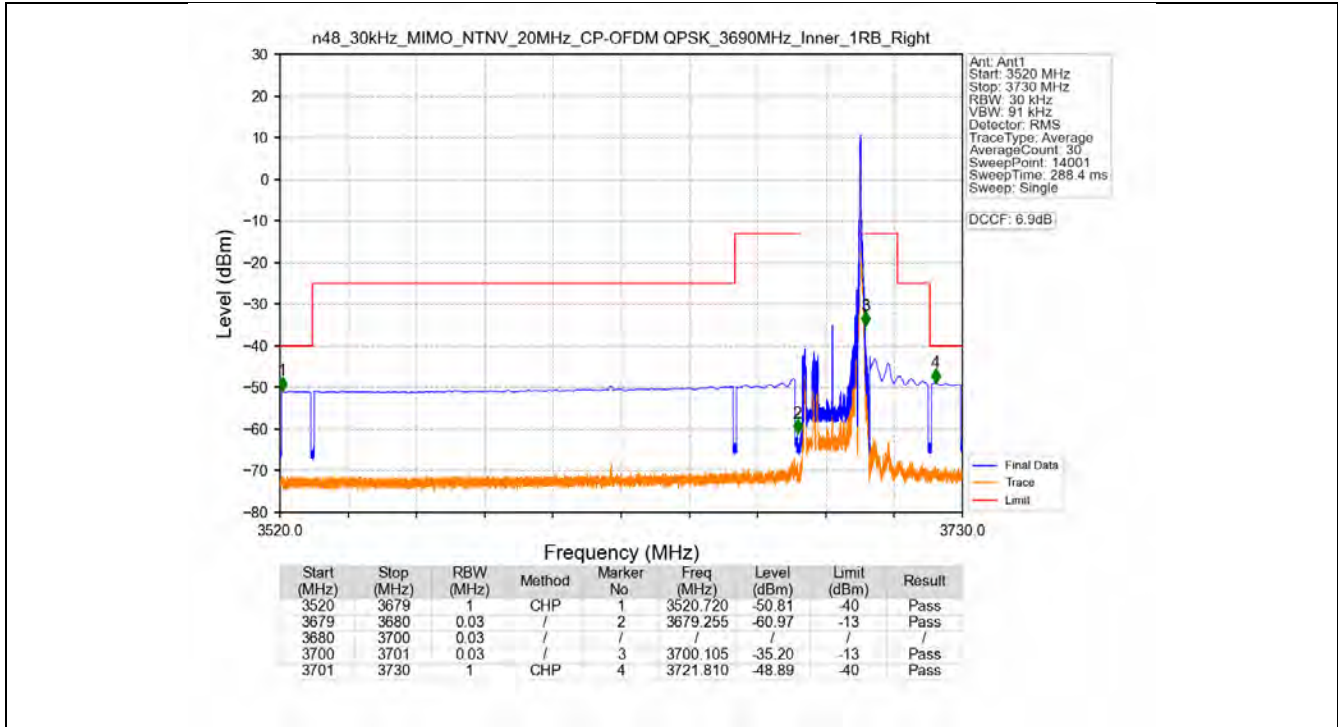


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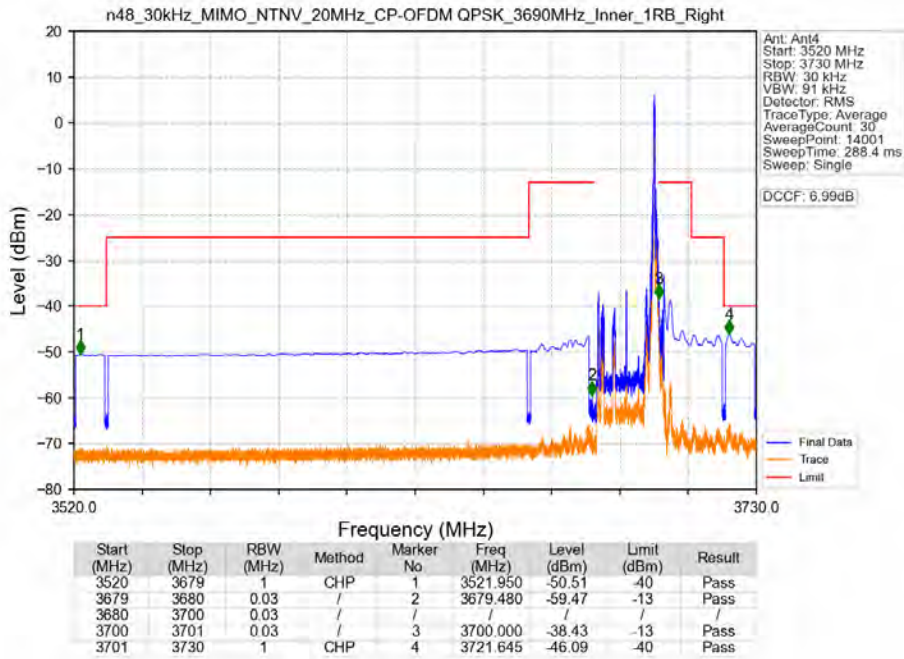
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n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM_QPSK_3690MHz_Inner_1RB_Right



n48_30kHz_MIMO_NTNV_20MHz_CP-OFDM_QPSK_3690MHz_Inner_1RB_Right



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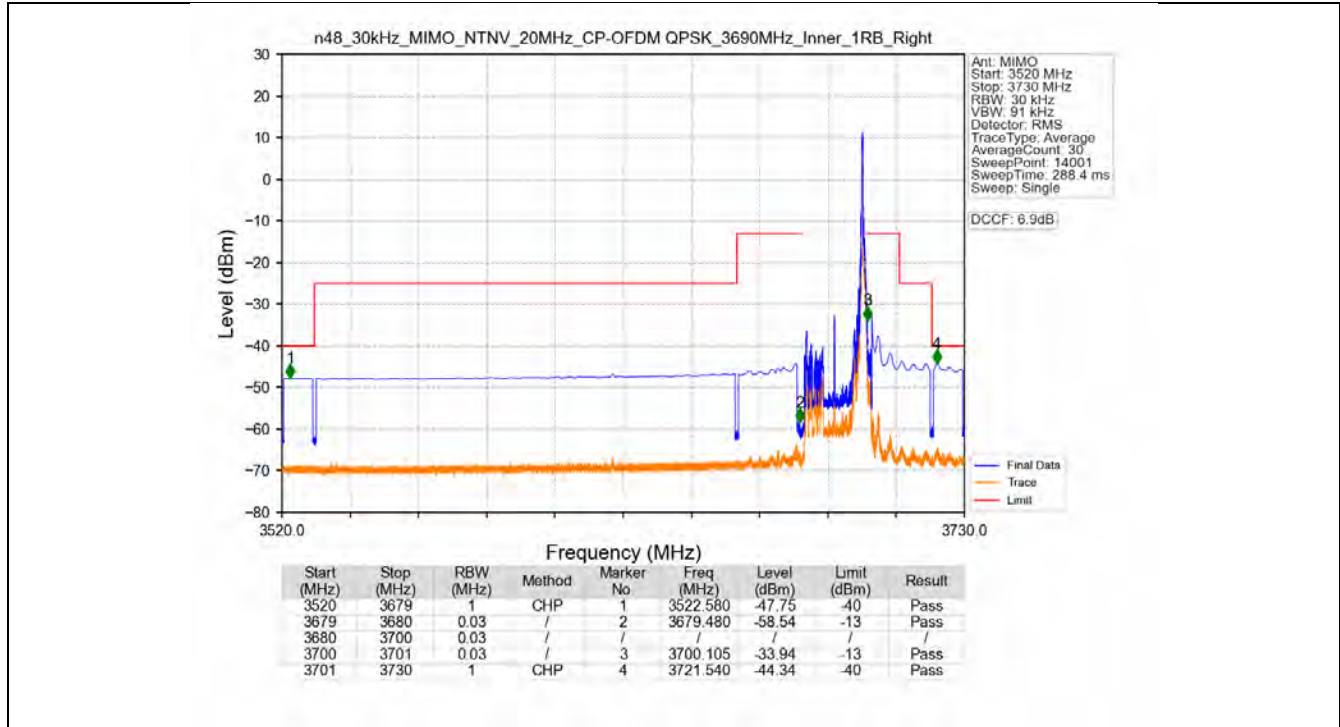


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5.6 30k_MIMO_40MHz_NTNV

5.6.1 Test Result

5G NR n48 SCS=30kHz MIMO 40MHz NTN							
Modulation	Frequency (MHz)	RB Allocation	Spurious Emission				Verdict
			Ant1	Ant4	Sum	Limit	
CP-OFDM QPSK	3570	Edge_1RB_Left	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Outer_Full	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
	3679.98	Inner_1RB_Left	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
		Edge_1RB_Right	Refer To Test Graph				Pass
			Refer To Test Graph				Pass
			Refer To Test Graph				Pass
	Outer_Full	Refer To Test Graph				Pass	
		Refer To Test Graph				Pass	
Refer To Test Graph				Pass			
Inner_1RB_Right	Refer To Test Graph				Pass		
	Refer To Test Graph				Pass		



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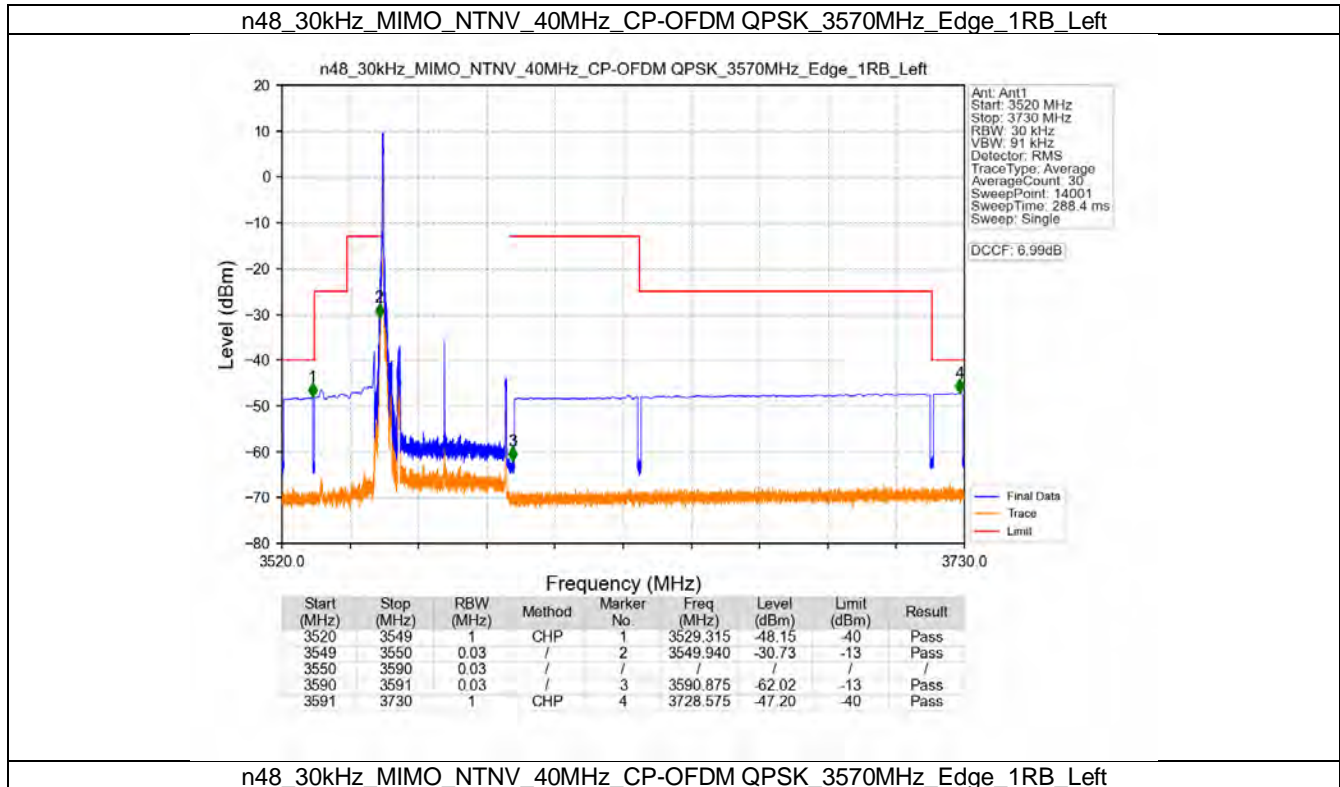
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5.6.2 Test Graph



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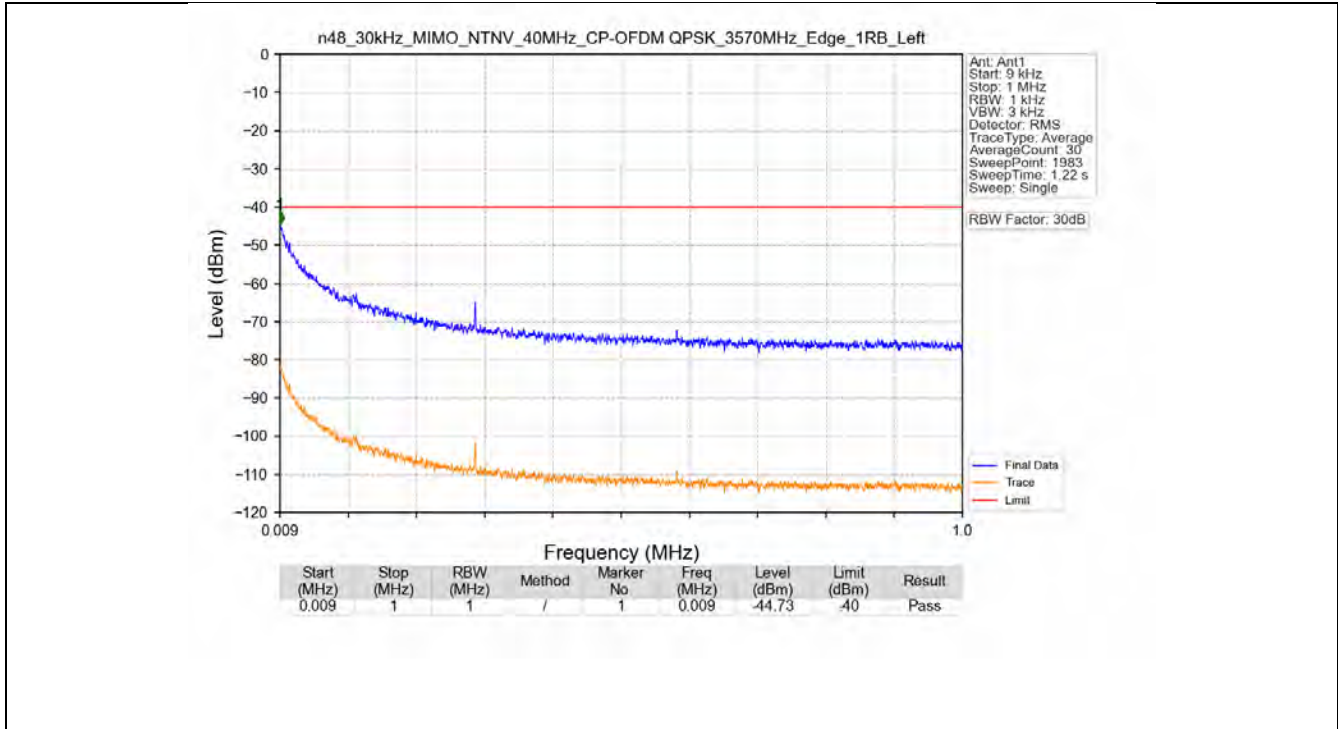


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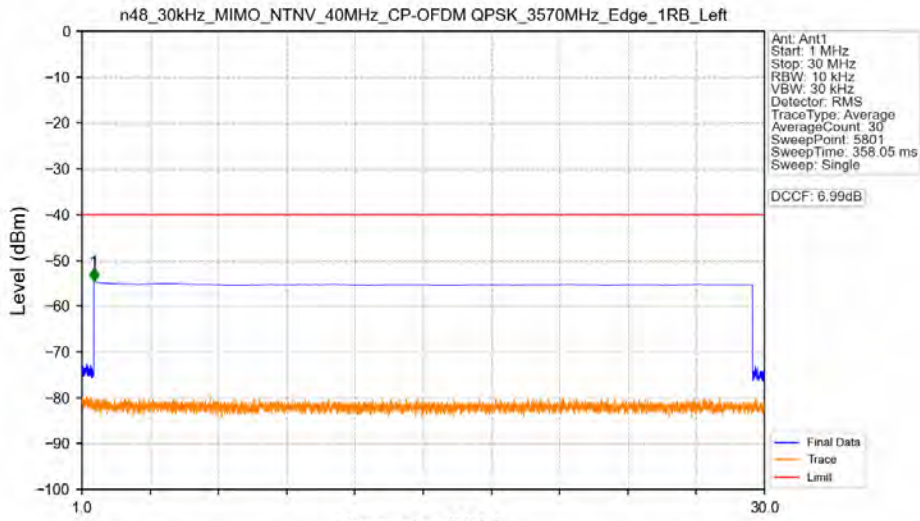
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1	30	1	CHP	1	1.505	-54.70	-40	Pass

n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Edge_1RB_Left



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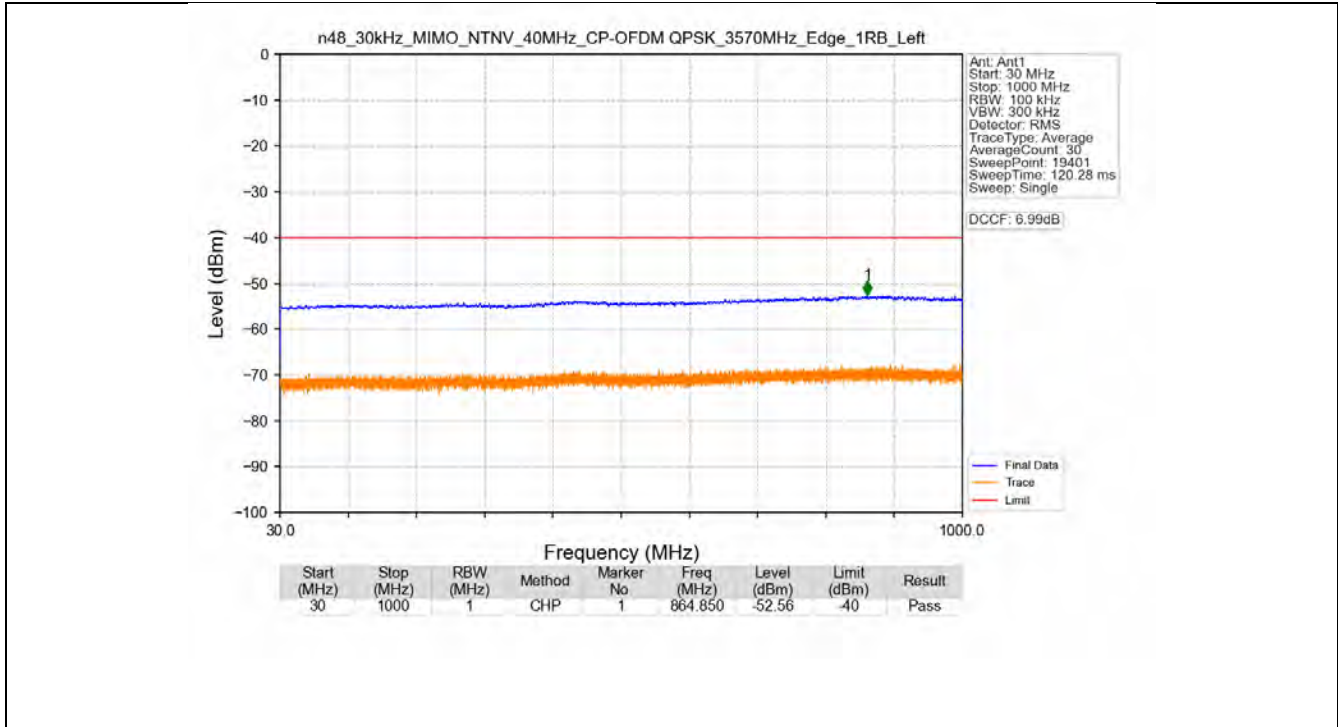


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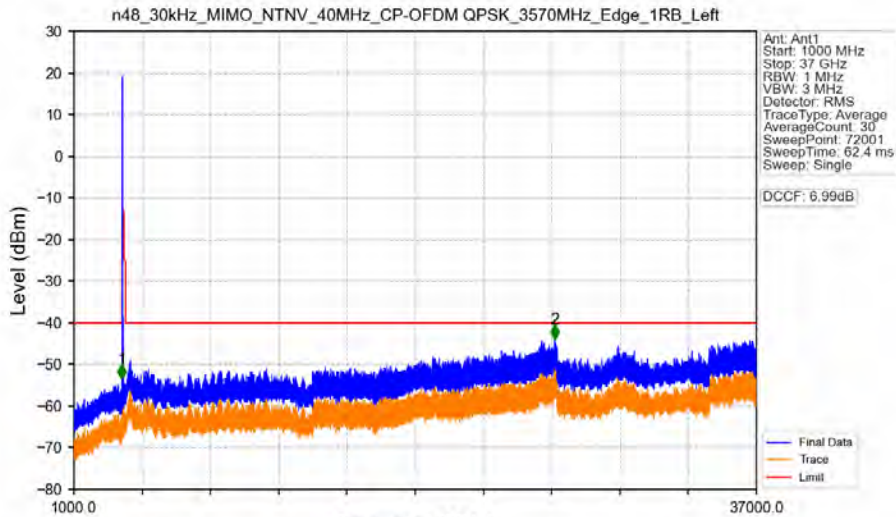
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1000	3549	1	/	1	3527.000	-53.39	-40	Pass
3549	3595	1	/	/	/	/	/	/
3595	37000	1	/	2	26355.000	-43.94	-40	Pass

n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Edge_1RB_Left



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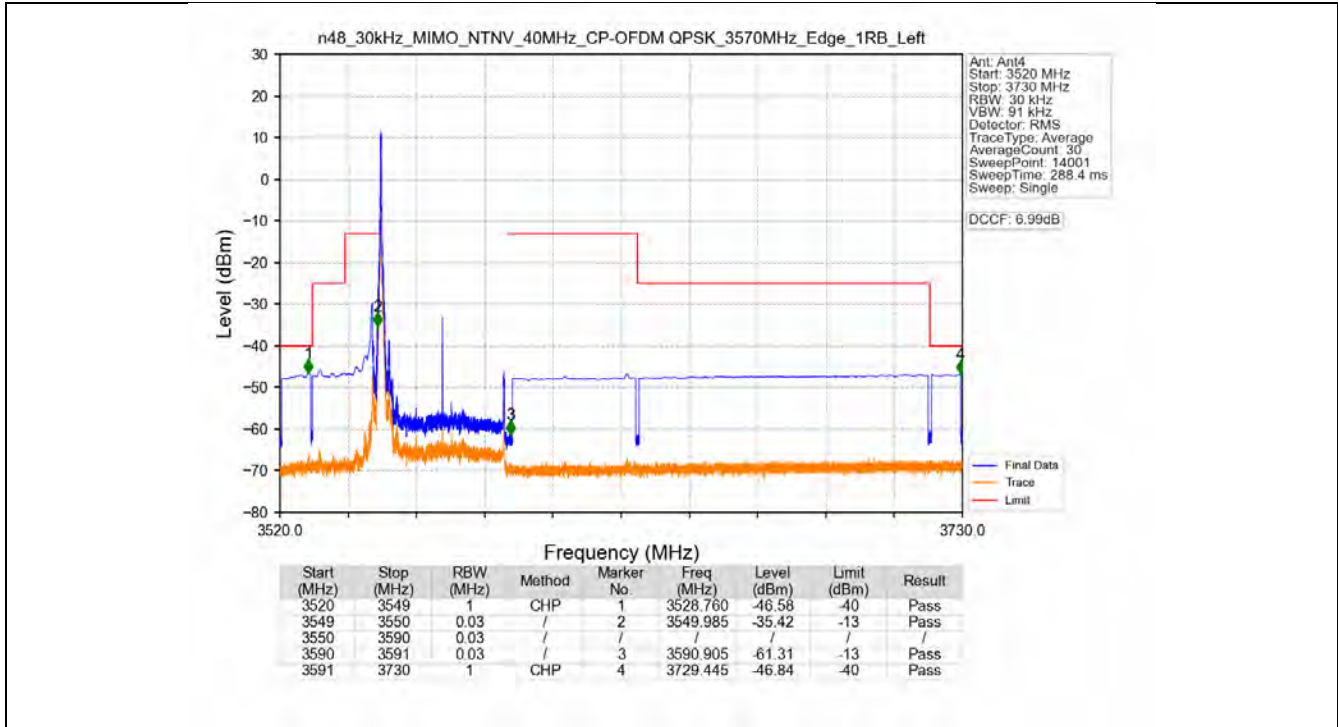


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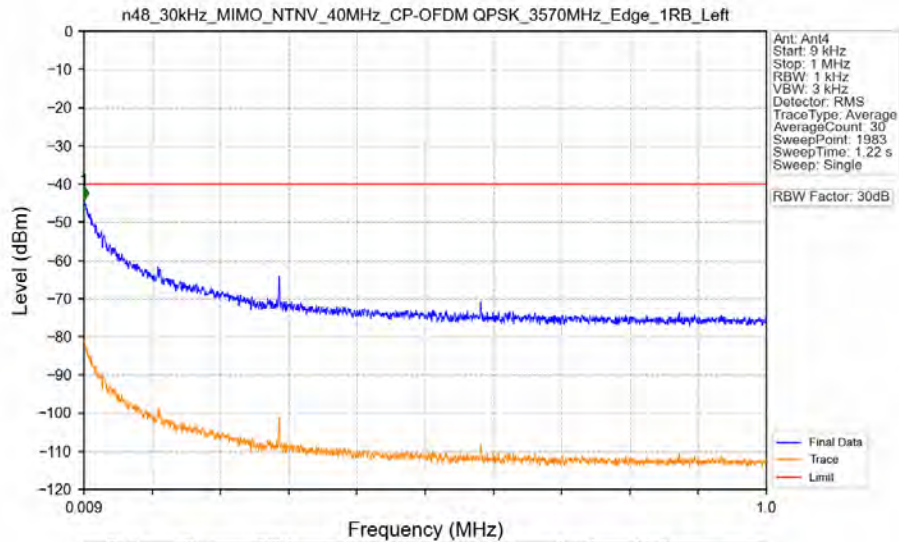
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Edge_1RB_Left



n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Edge_1RB_Left



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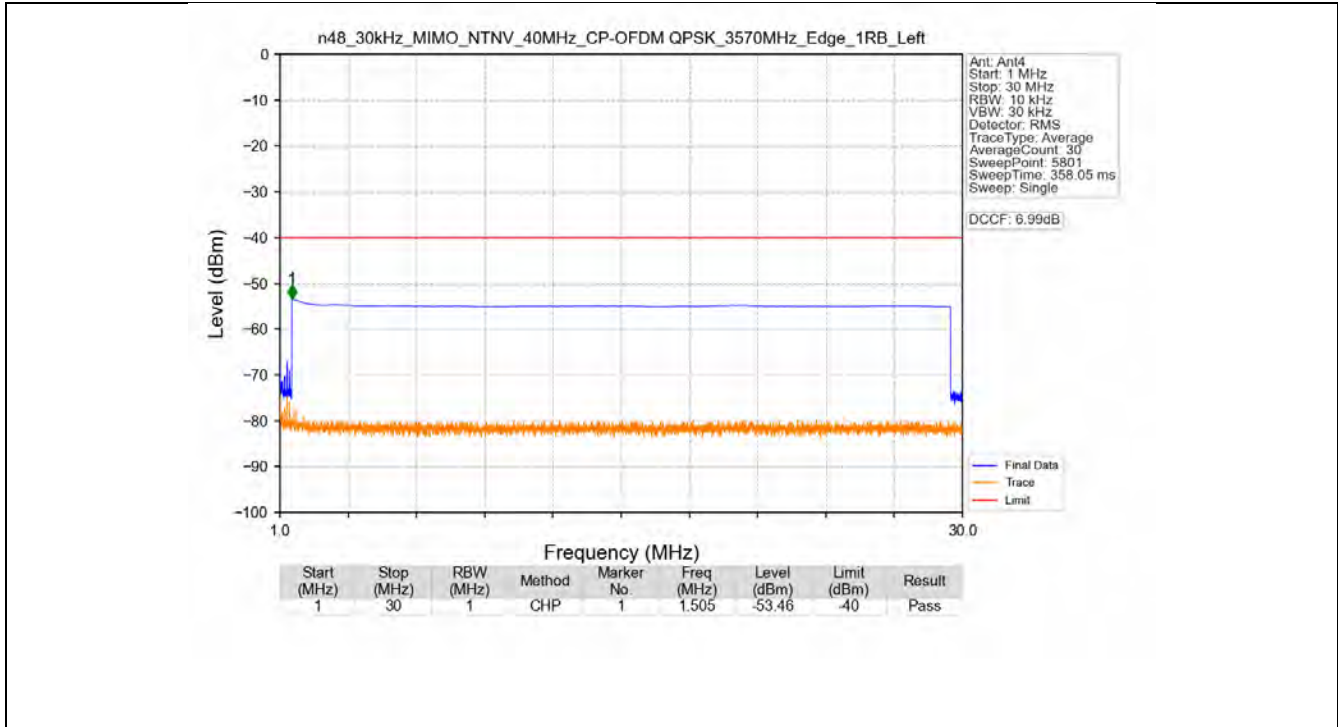


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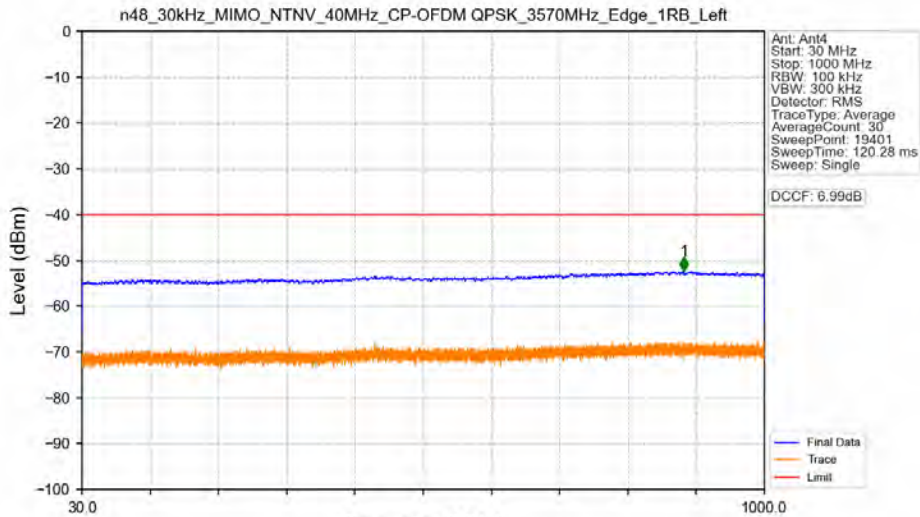
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	885.550	-52.33	-40	Pass

n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Edge_1RB_Left



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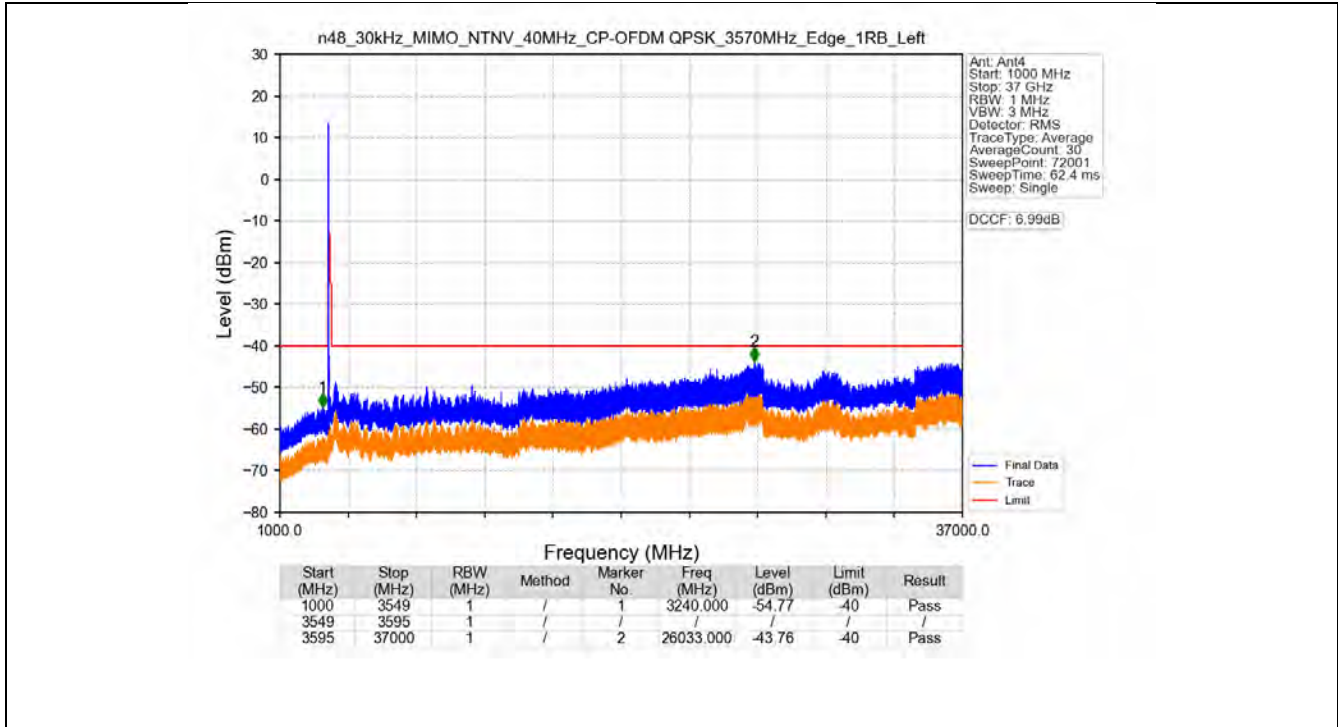


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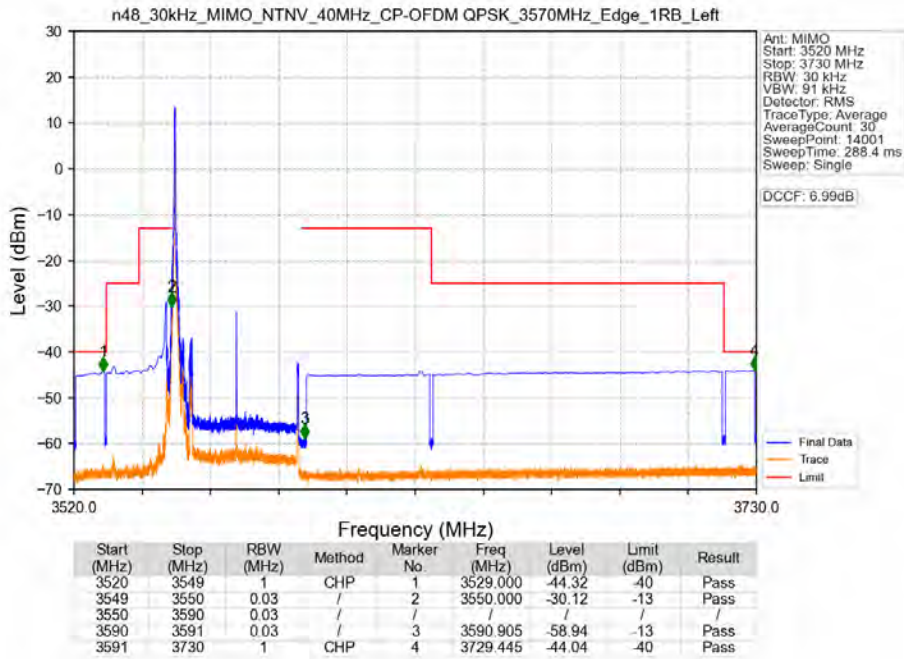
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Edge_1RB_Left



n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Edge_1RB_Left



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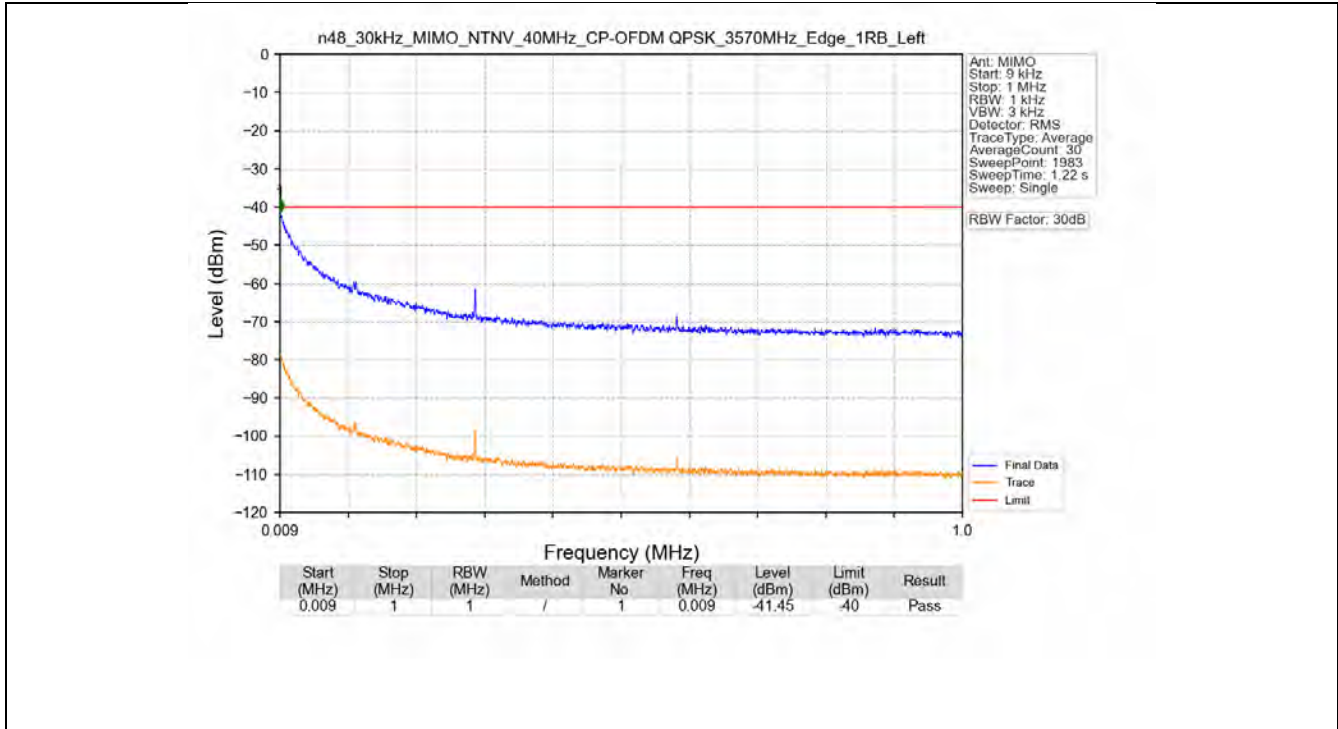


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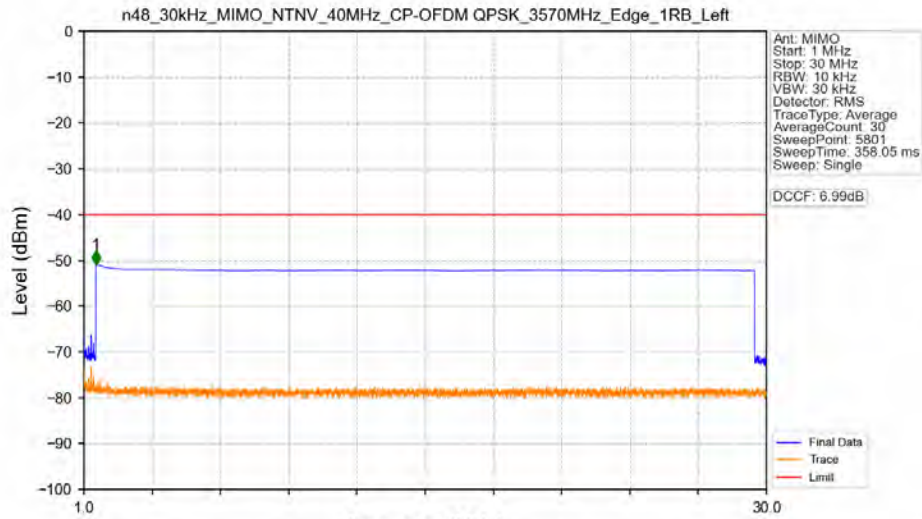
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Edge_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1	30	1	CHP	1	1.505	-51.03	-40	Pass

n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Edge_1RB_Left



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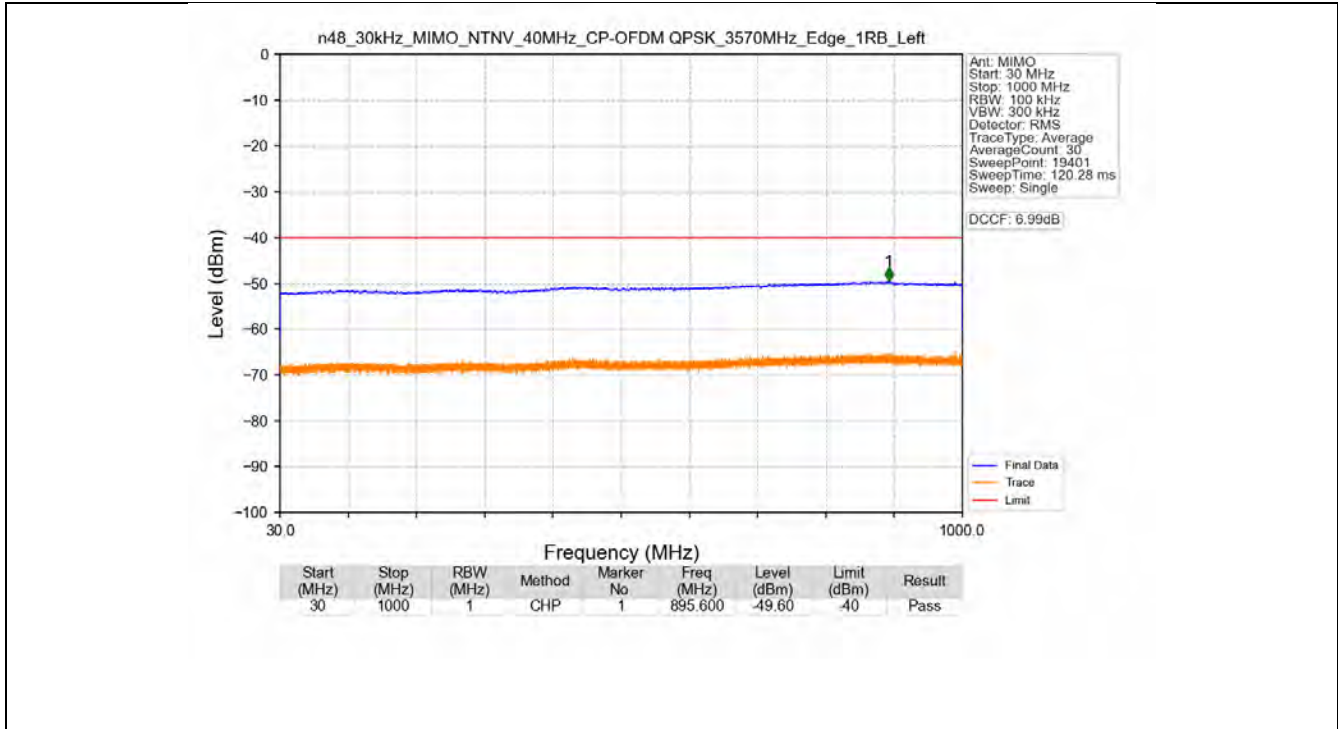


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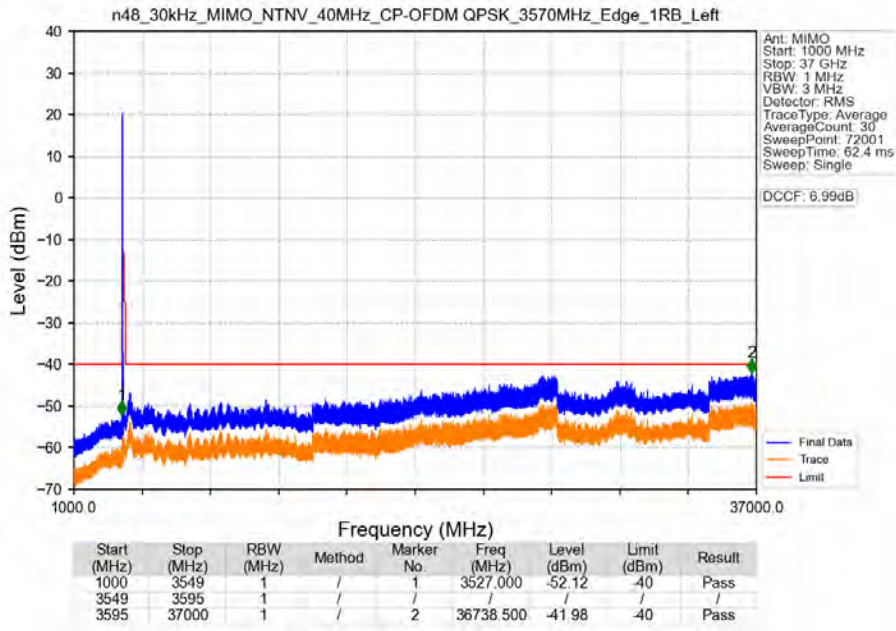
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Edge_1RB_Left



n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Outer_Full



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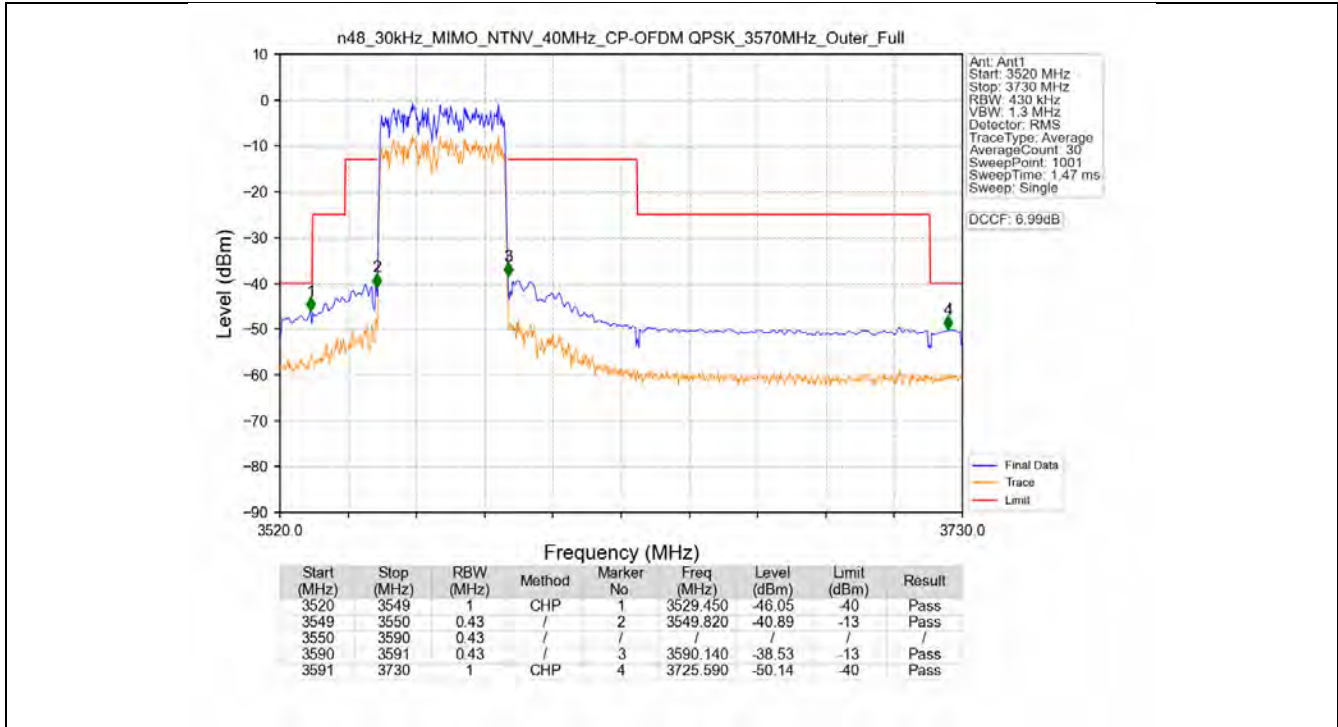


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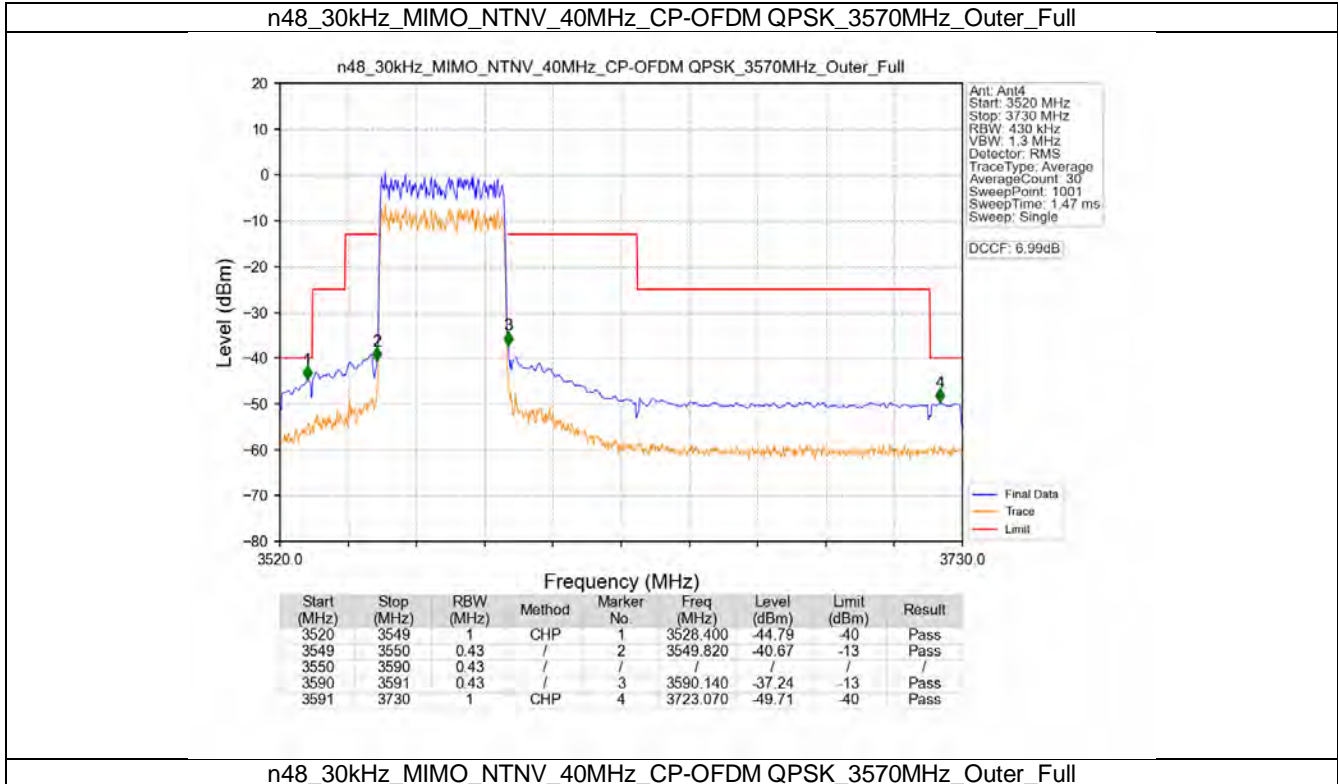


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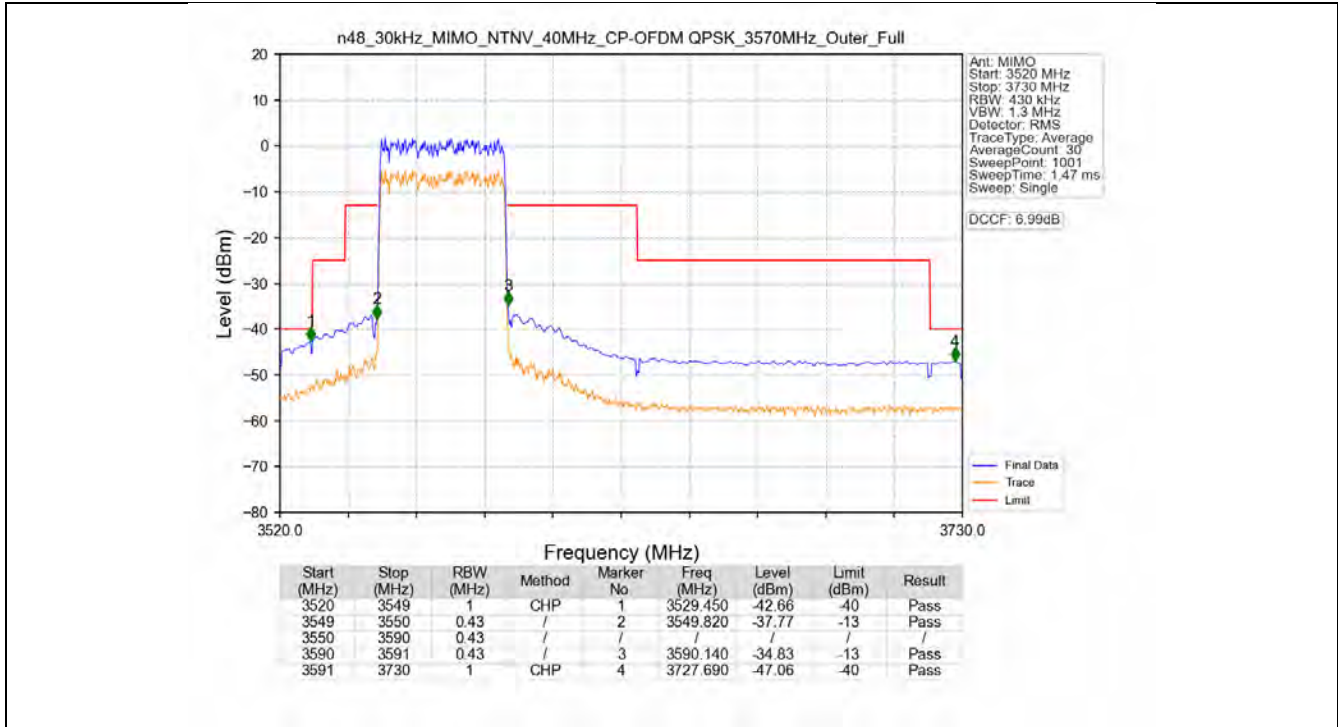


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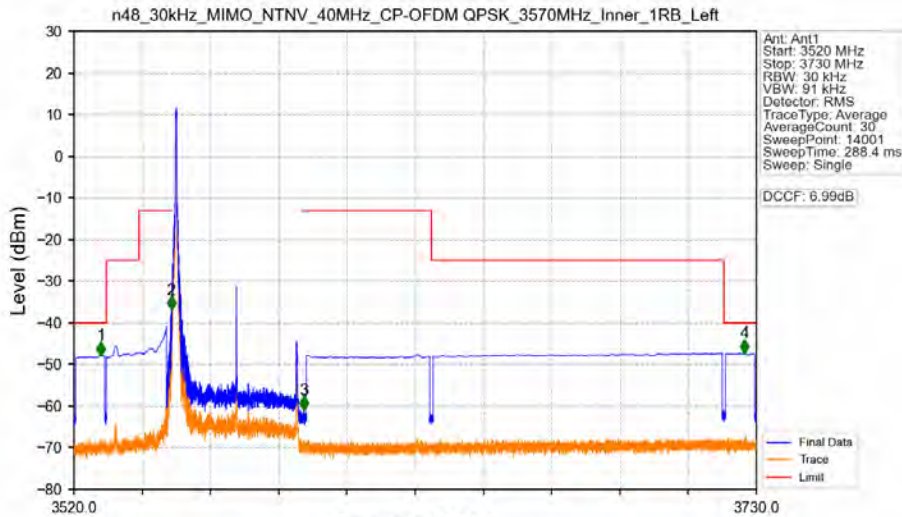
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Inner_1RB_Left



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3549	1	CHP	1	3528.295	-47.91	-40	Pass
3549	3550	0.03	/	2	3549.925	-36.98	-13	Pass
3550	3590	0.03	/	/	/	/	/	/
3590	3591	0.03	/	3	3590.785	-61.03	-13	Pass
3591	3730	1	CHP	4	3726.325	-47.33	-40	Pass

n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Inner_1RB_Left



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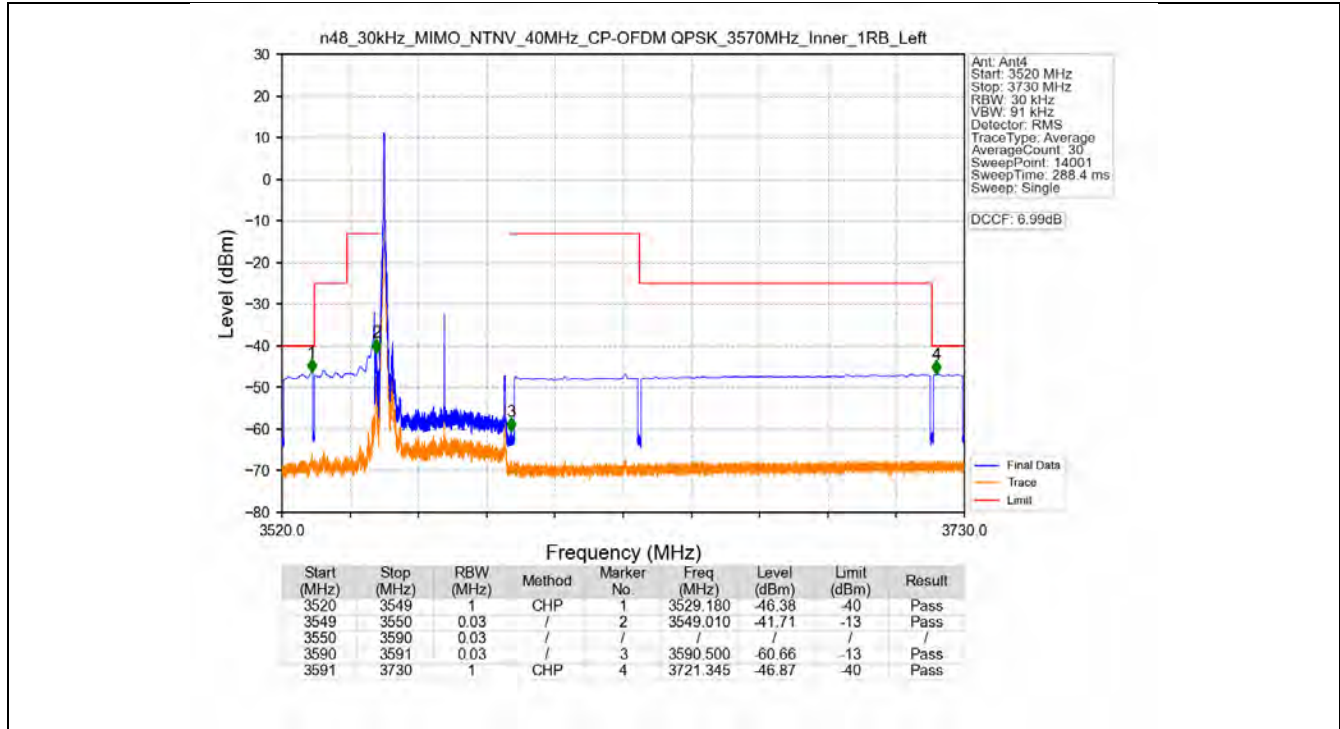


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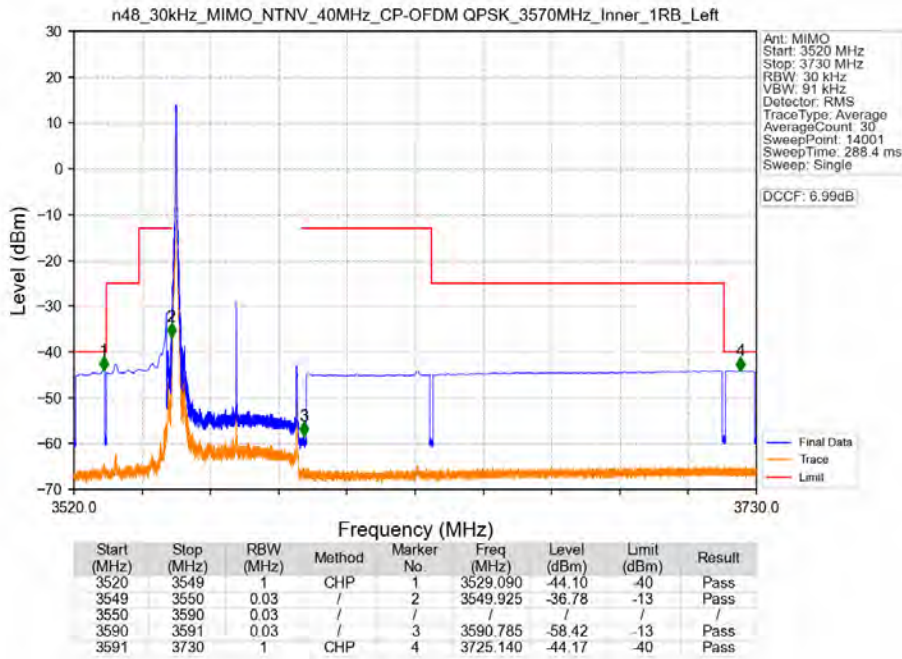
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3570MHz_Inner_1RB_Left



n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3679.98MHz_Edge_1RB_Right



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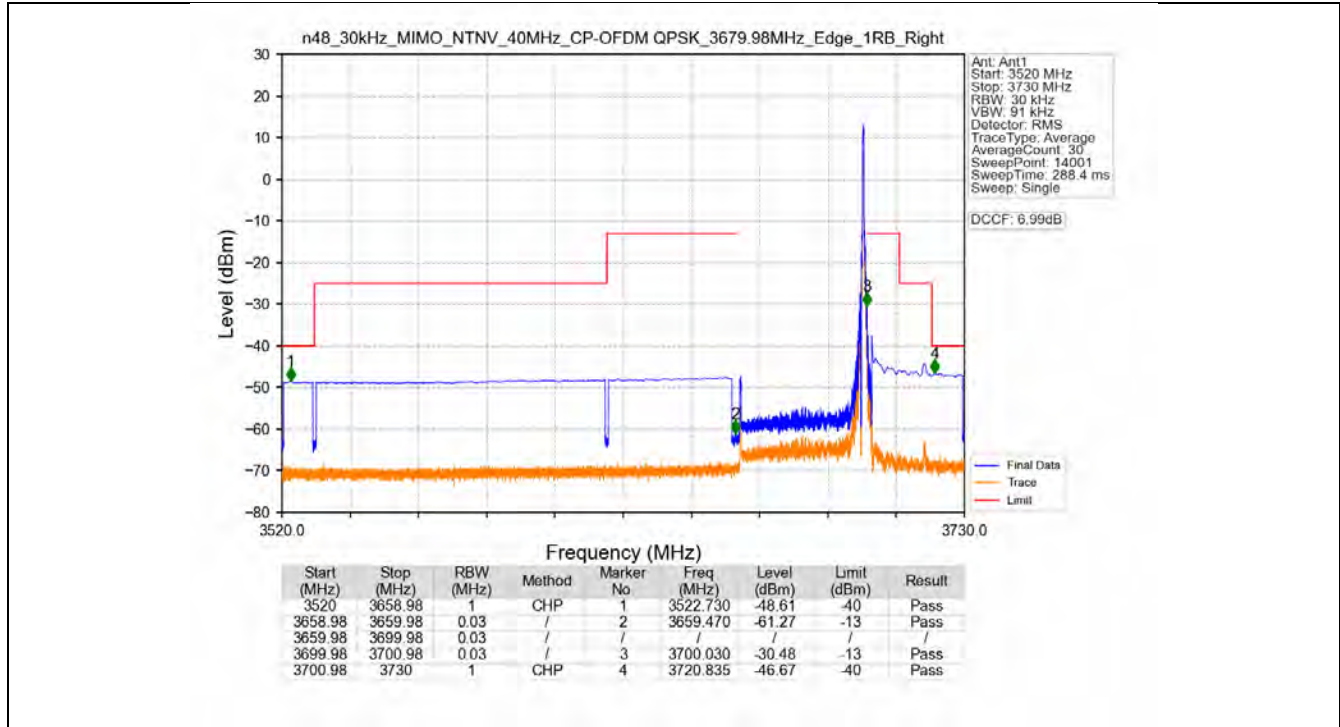


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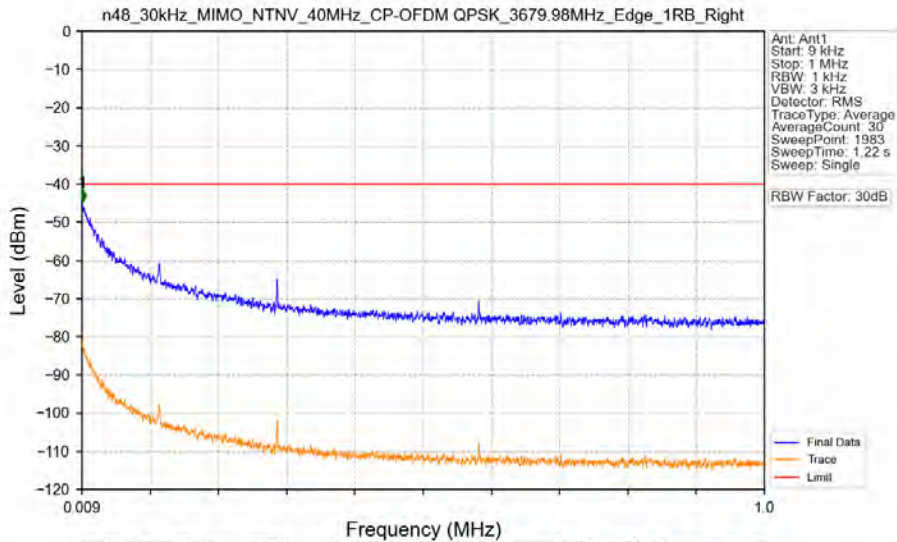
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3679.98MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	1	1	/	1	0.009	-44.90	40	Pass

n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3679.98MHz_Edge_1RB_Right



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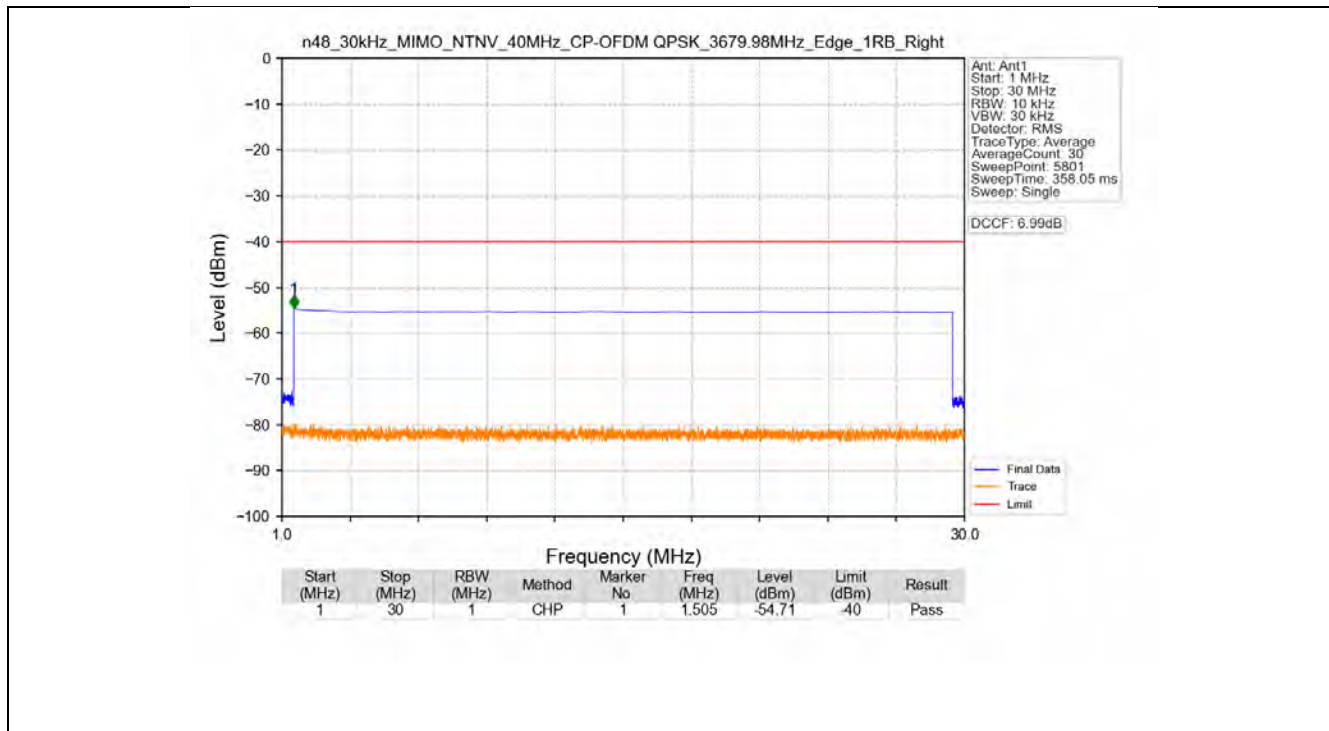
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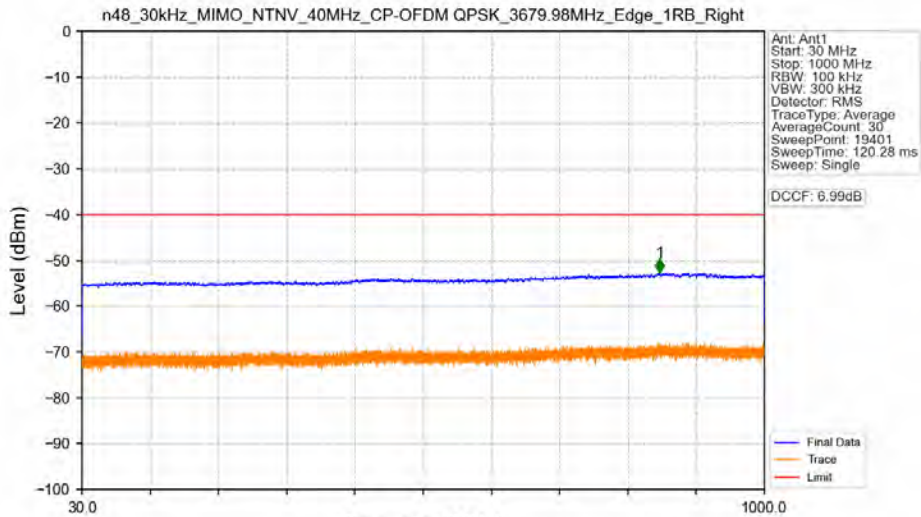
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3679.98MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	851.150	-52.76	-40	Pass

n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3679.98MHz_Edge_1RB_Right



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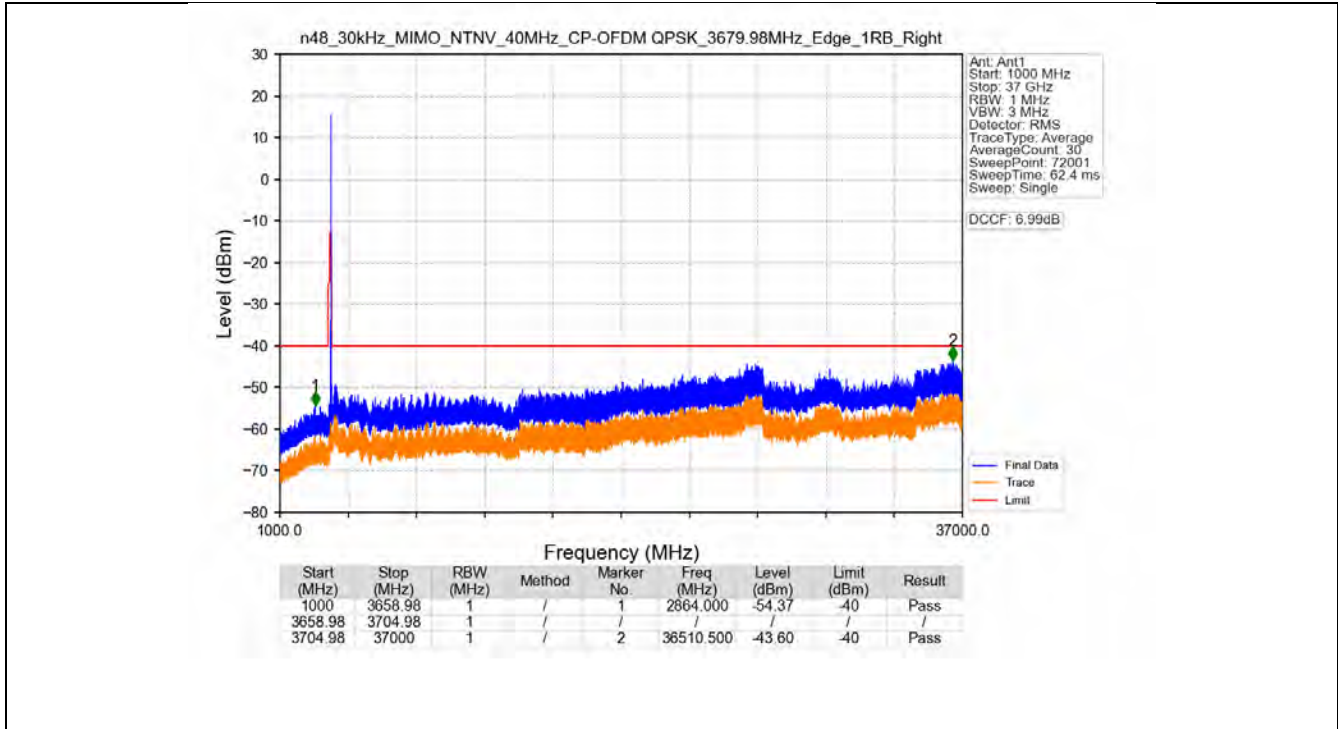


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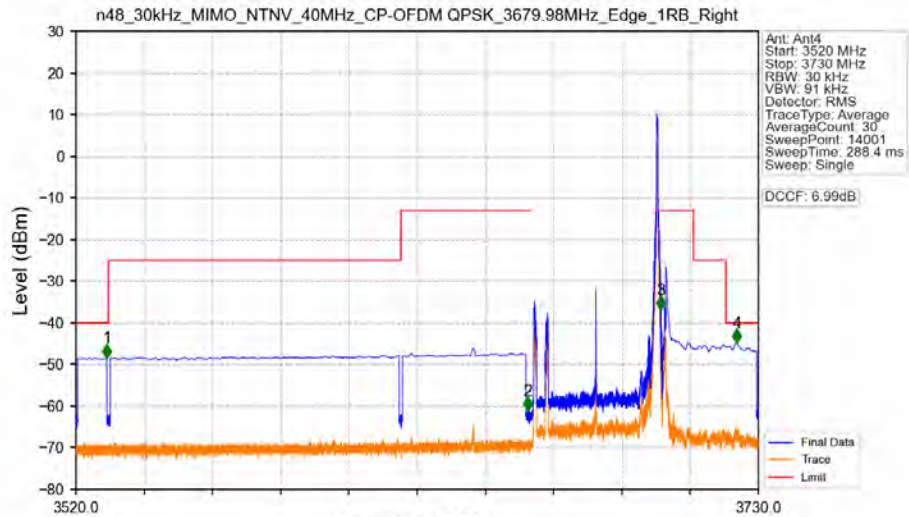
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3679.98MHz_Edge_1RB_Right



n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3679.98MHz_Edge_1RB_Right



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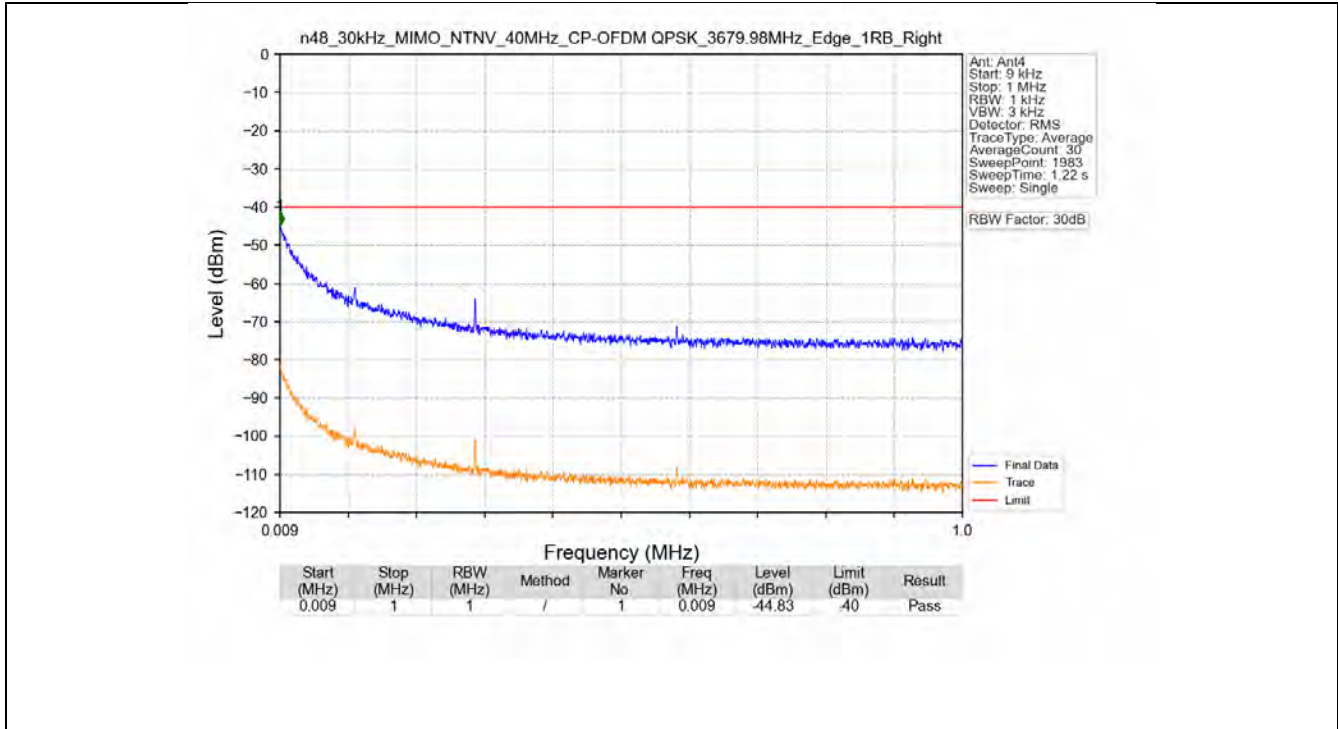


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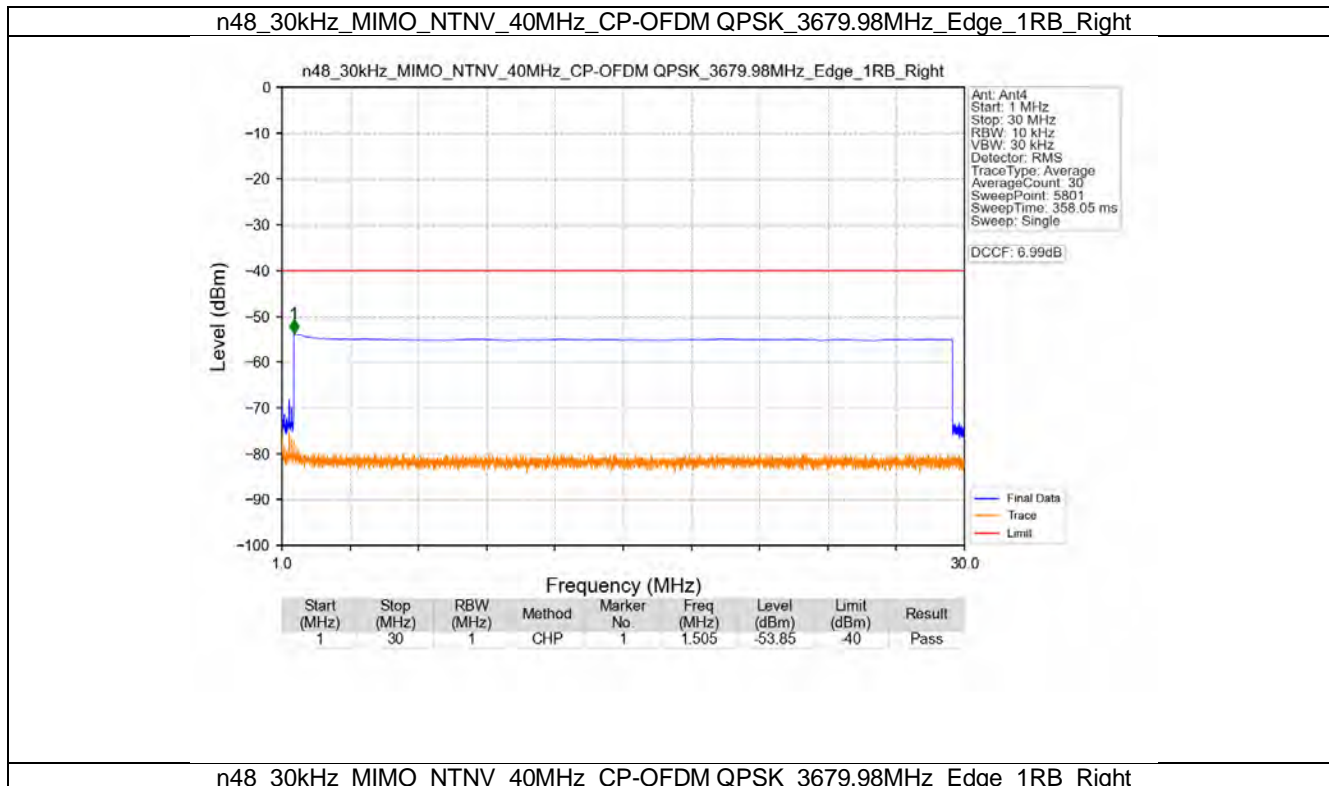
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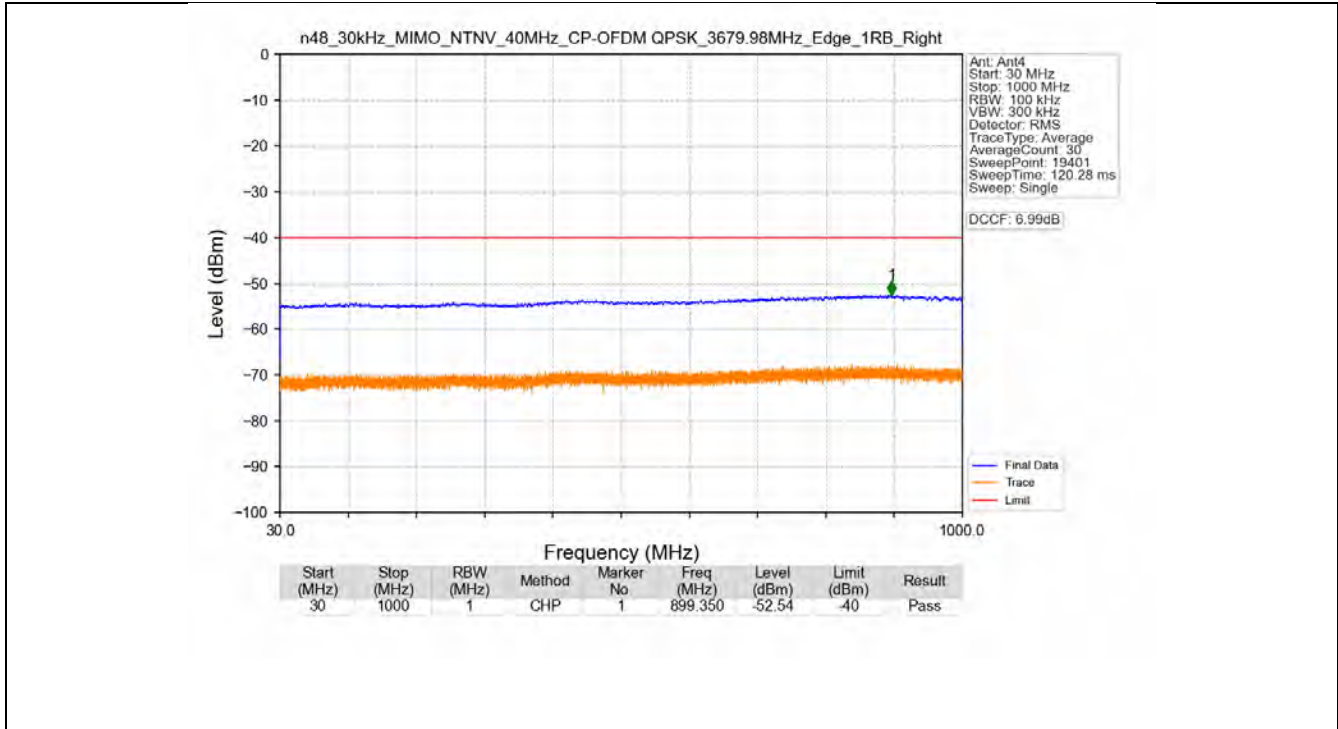


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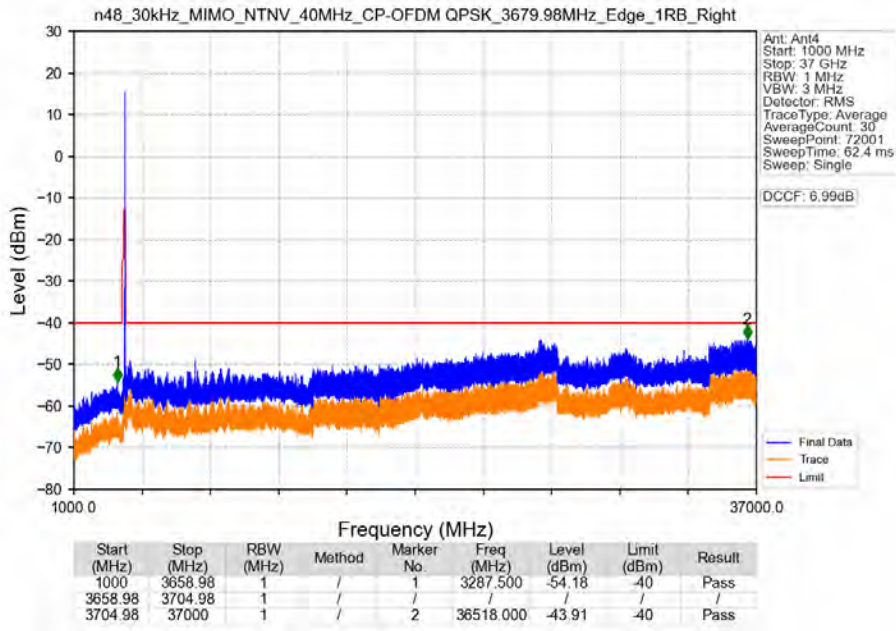
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM_QPSK_3679.98MHz_Edge_1RB_Right



n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM_QPSK_3679.98MHz_Edge_1RB_Right



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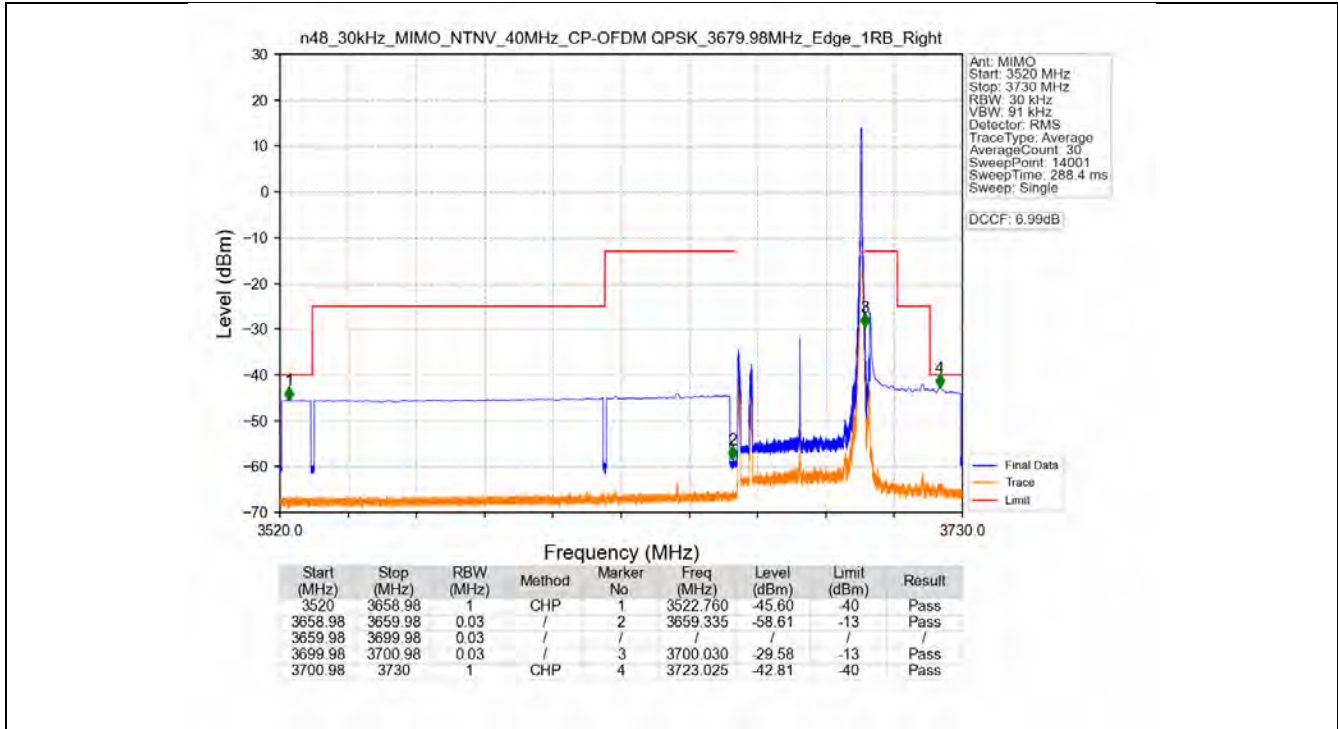


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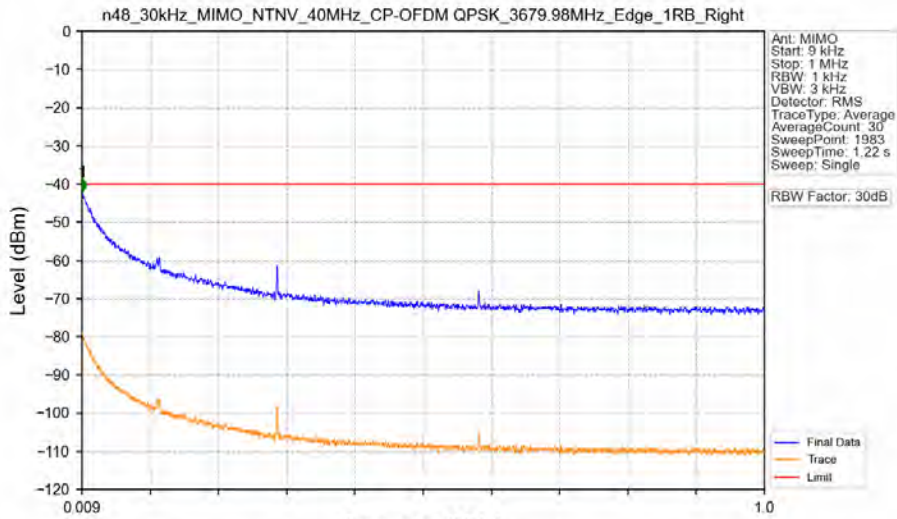
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3679.98MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
0.009	1	1	/	1	0.009	-42.06	-40	Pass

n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3679.98MHz_Edge_1RB_Right



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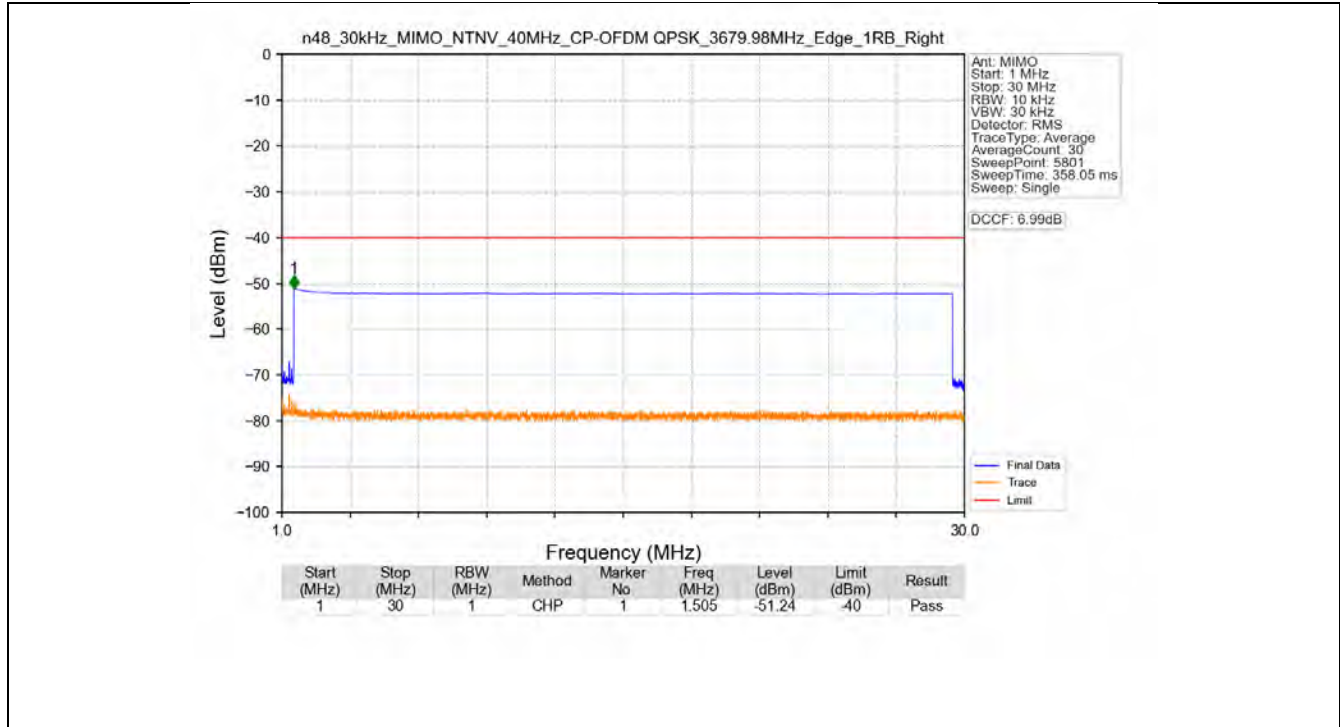


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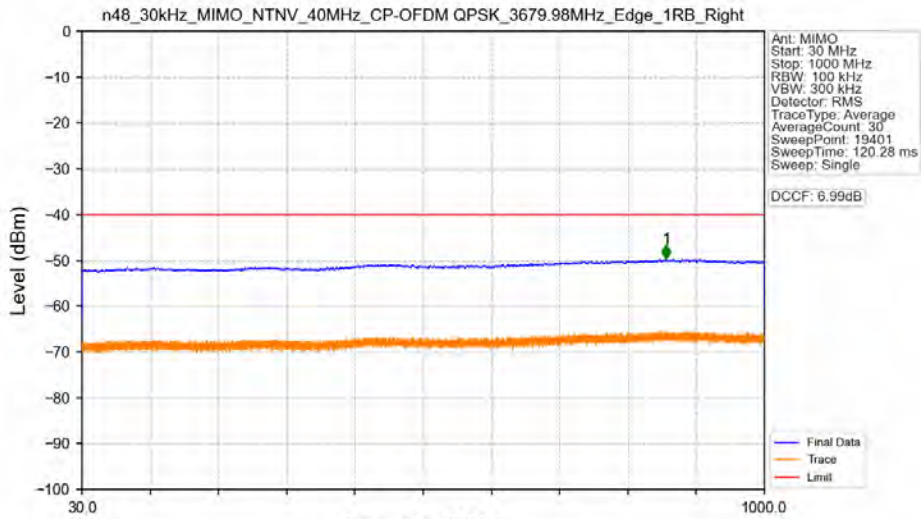
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3679.98MHz_Edge_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
30	1000	1	CHP	1	860.450	-49.75	-40	Pass

n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3679.98MHz_Edge_1RB_Right



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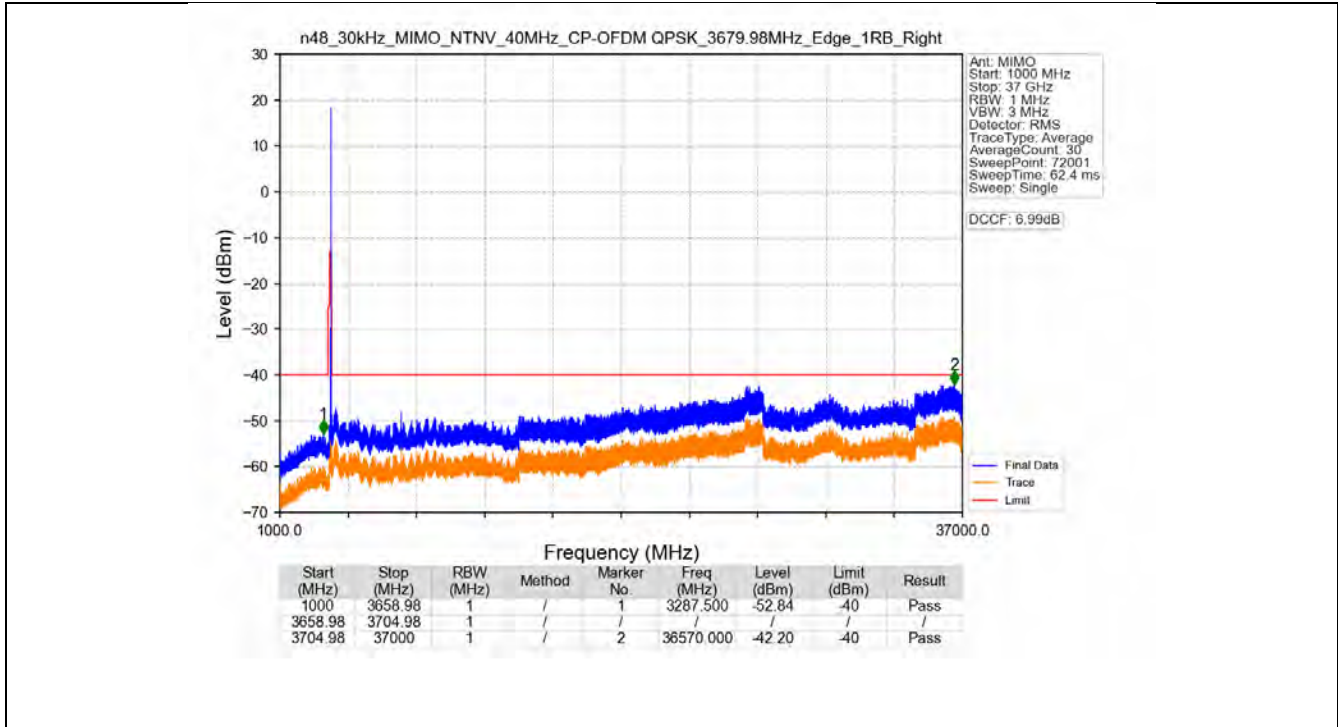


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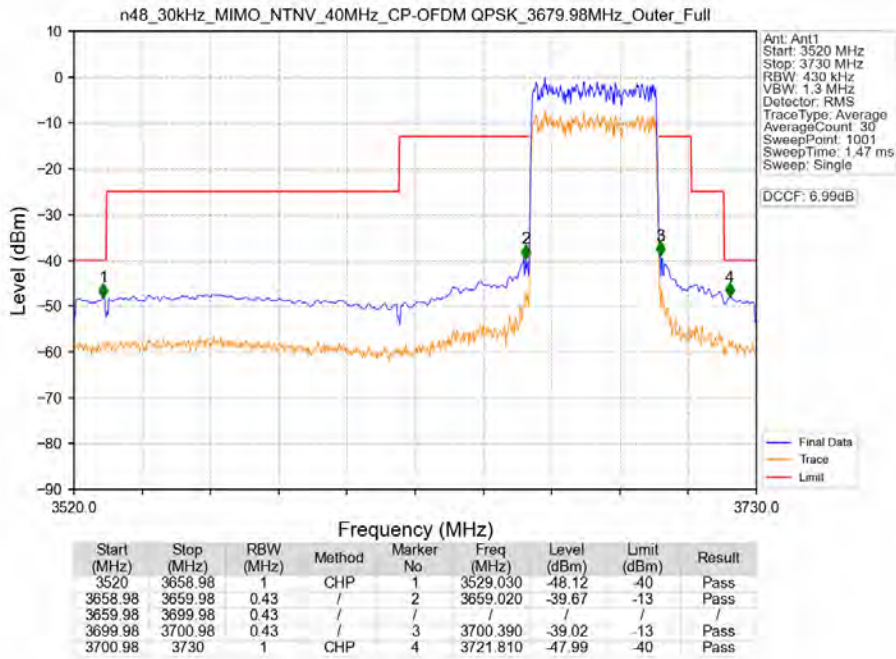
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3679.98MHz_Outer_Full



n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM QPSK_3679.98MHz_Outer_Full



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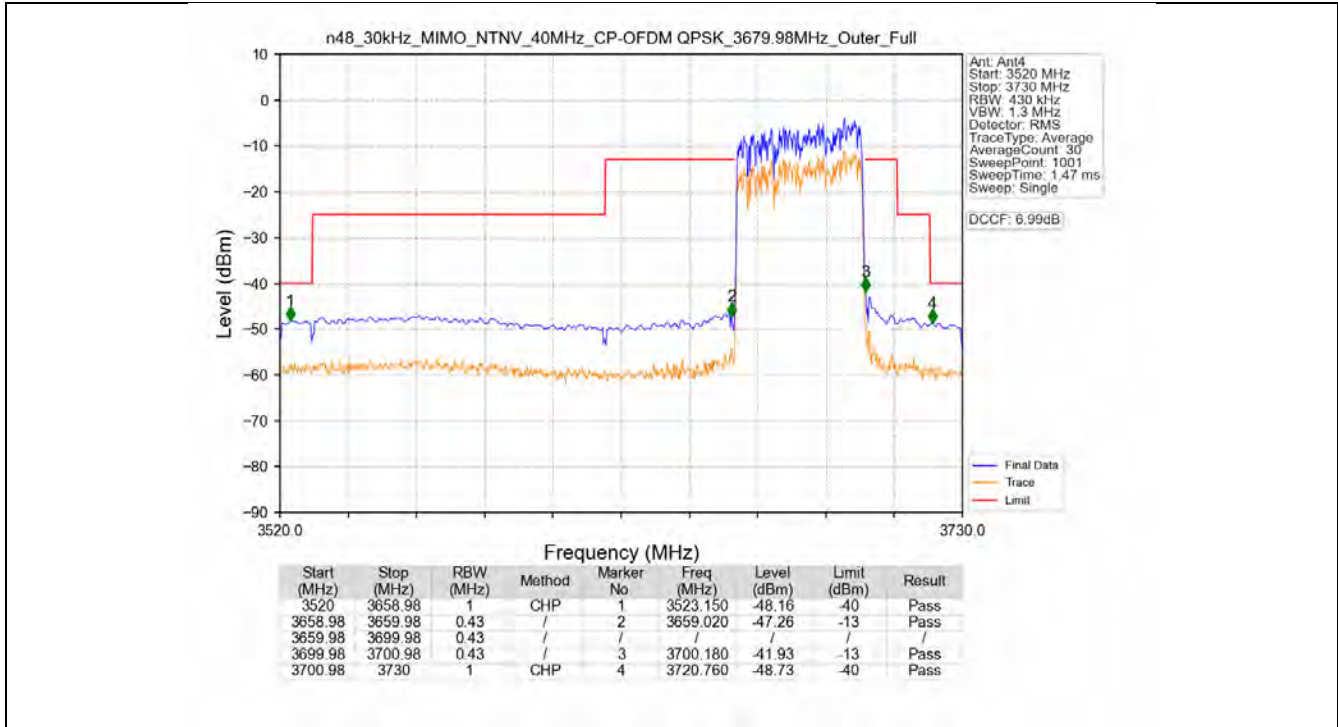


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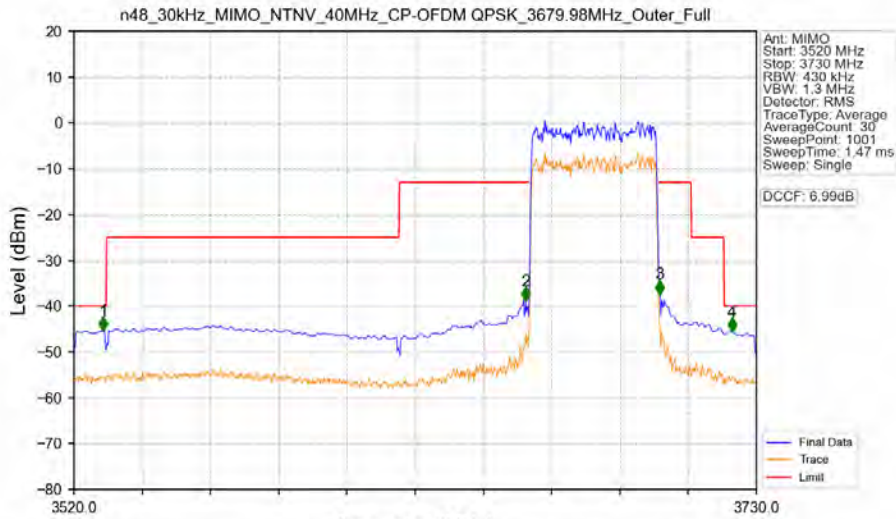
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3658.98	1	CHP	1	3529.030	-45.42	-40	Pass
3658.98	3659.98	0.43	/	2	3659.020	-38.97	-13	Pass
3659.98	3699.98	0.43	/	3	3700.180	-37.43	-13	Pass
3699.98	3700.98	0.43	CHP	4	3722.440	-45.58	-40	Pass

n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM_QPSK_3679.98MHz_Inner_1RB_Right



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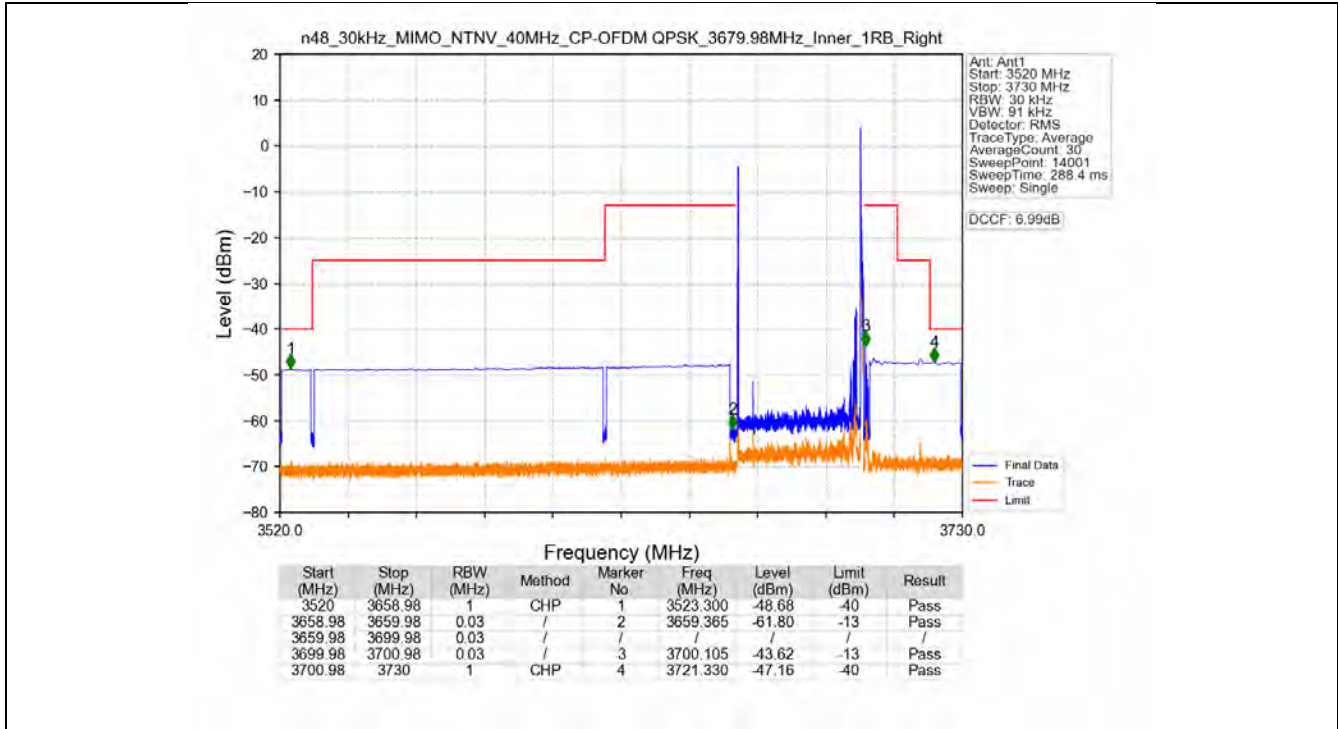


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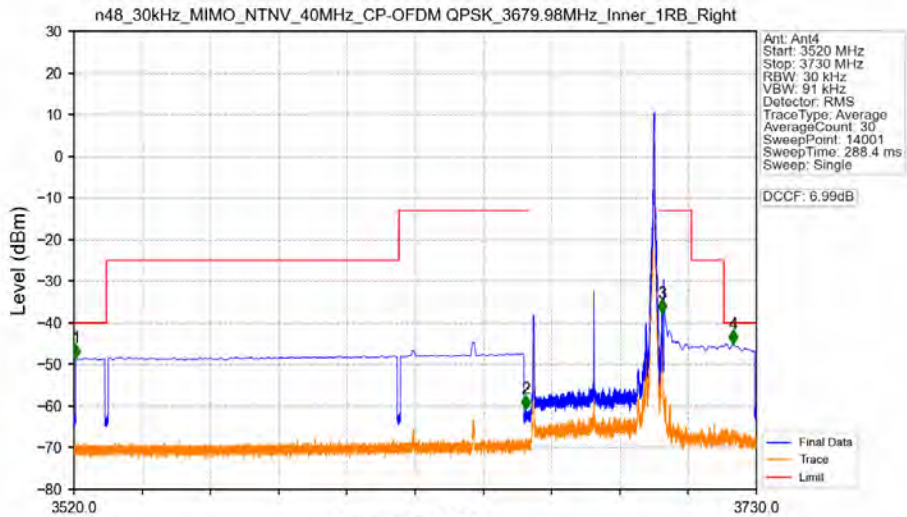
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n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM_QPSK_3679.98MHz_Inner_1RB_Right



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
3520	3658.98	1	CHP	1	3520.555	-48.50	-40	Pass
3658.98	3659.98	0.03	/	2	3658.990	-60.70	-13	Pass
3659.98	3699.98	0.03	/	/	/	/	/	/
3699.98	3700.98	0.03	/	3	3700.870	-37.67	-13	Pass
3700.98	3730	1	CHP	4	3722.920	-45.02	-40	Pass

n48_30kHz_MIMO_NTNV_40MHz_CP-OFDM_QPSK_3679.98MHz_Inner_1RB_Right



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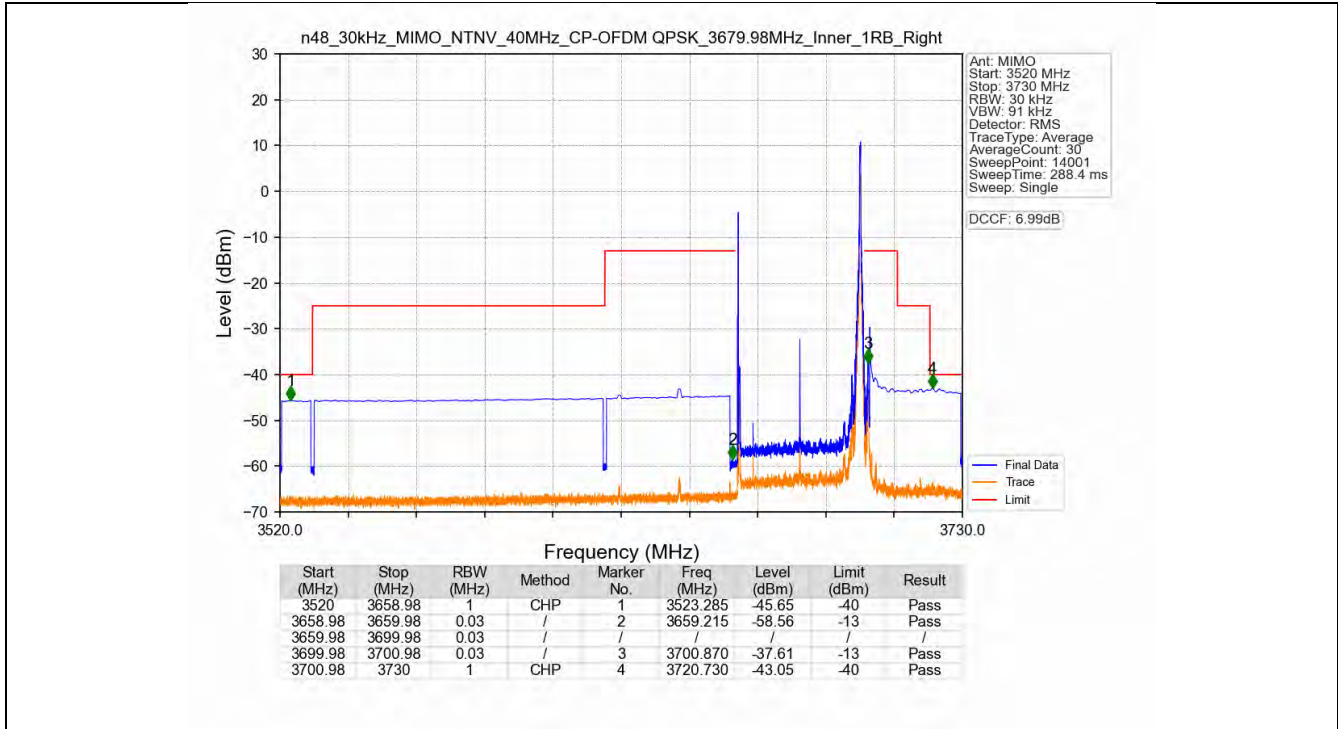


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6. Adjacent Channel Leakage Ratio

6.1 30k_SISO_10MHz_NTNV

6.1.1 Test Result

5G NR n48 SCS=30kHz SISO 10MHz NTNv					
Modulation	Frequency (MHz)	RB Allocation	Adjacent Channel Leakage Ratio		Verdict
			Result	Limit	
DFT-s-OFDM PI/2 BPSK	3555	Outer_Full	Refer To Test Graph		Pass
	3624.99	Outer_Full	Refer To Test Graph		Pass
	3694.98	Outer_Full	Refer To Test Graph		Pass
DFT-s-OFDM QPSK	3555	Outer_Full	Refer To Test Graph		Pass
	3624.99	Outer_Full	Refer To Test Graph		Pass
	3694.98	Outer_Full	Refer To Test Graph		Pass
DFT-s-OFDM 16 QAM	3555	Outer_Full	Refer To Test Graph		Pass
	3624.99	Outer_Full	Refer To Test Graph		Pass
	3694.98	Outer_Full	Refer To Test Graph		Pass
DFT-s-OFDM 64 QAM	3555	Outer_Full	Refer To Test Graph		Pass
	3624.99	Outer_Full	Refer To Test Graph		Pass
	3694.98	Outer_Full	Refer To Test Graph		Pass
DFT-s-OFDM 256 QAM	3555	Outer_Full	Refer To Test Graph		Pass
	3624.99	Outer_Full	Refer To Test Graph		Pass
	3694.98	Outer_Full	Refer To Test Graph		Pass
CP-OFDM QPSK	3555	Outer_Full	Refer To Test Graph		Pass
	3624.99	Outer_Full	Refer To Test Graph		Pass
	3694.98	Outer_Full	Refer To Test Graph		Pass
CP-OFDM 16 QAM	3555	Outer_Full	Refer To Test Graph		Pass
	3624.99	Outer_Full	Refer To Test Graph		Pass
	3694.98	Outer_Full	Refer To Test Graph		Pass
CP-OFDM 64 QAM	3555	Outer_Full	Refer To Test Graph		Pass
	3624.99	Outer_Full	Refer To Test Graph		Pass
	3694.98	Outer_Full	Refer To Test Graph		Pass
CP-OFDM 256 QAM	3555	Outer_Full	Refer To Test Graph		Pass
	3624.99	Outer_Full	Refer To Test Graph		Pass
	3694.98	Outer_Full	Refer To Test Graph		Pass



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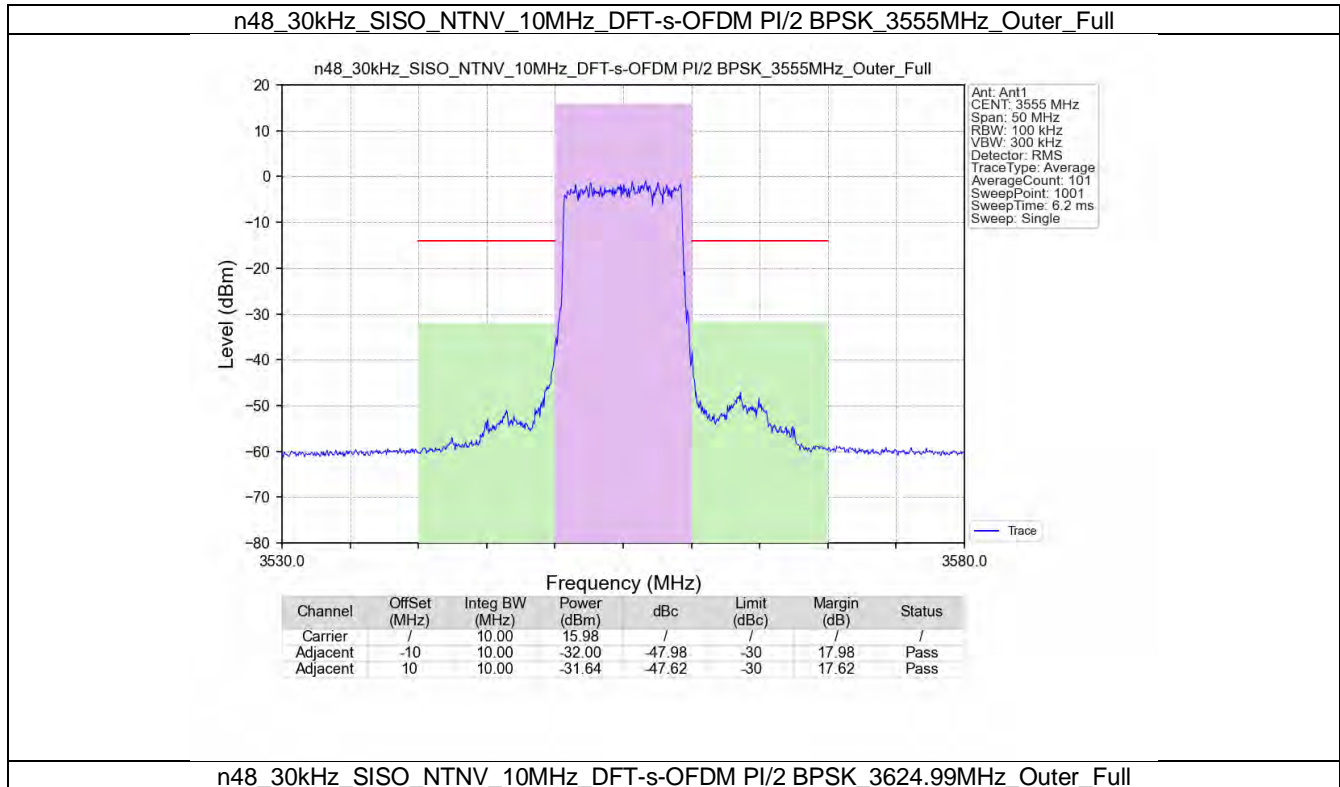
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6.1.2 Test Graph



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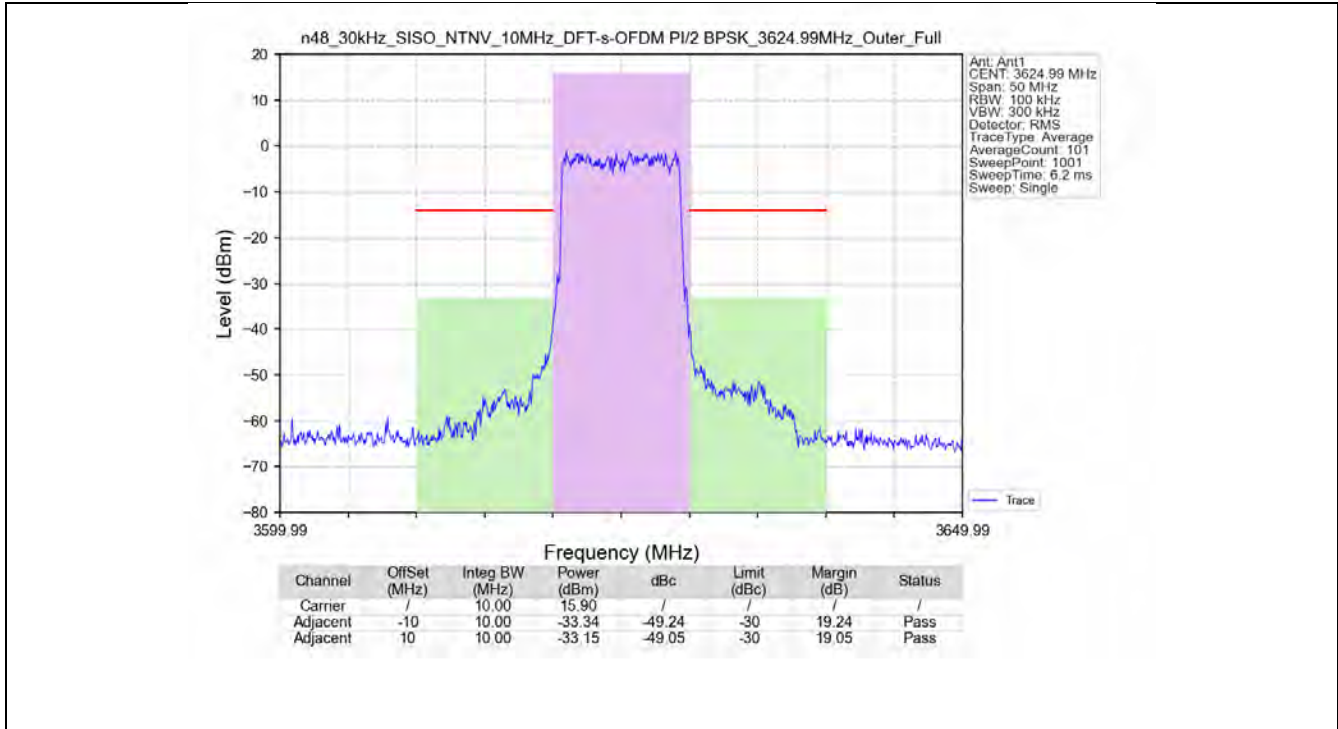


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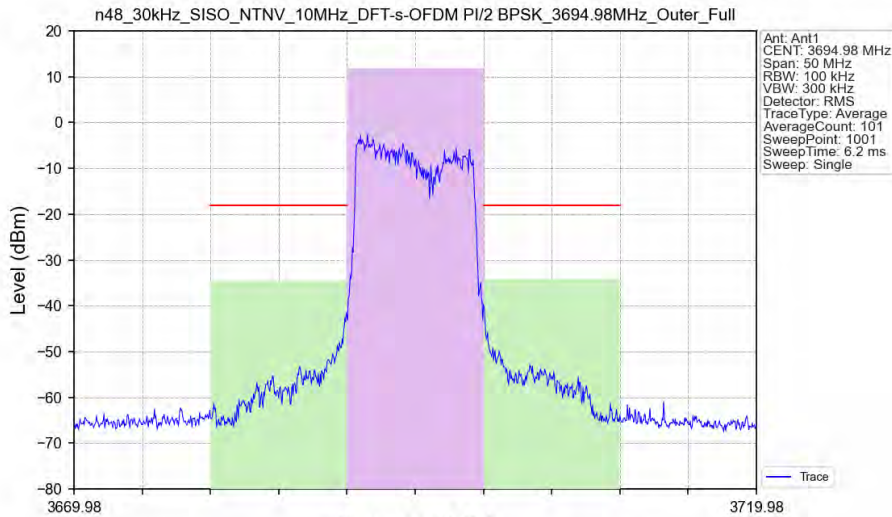
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_3694.98MHz_Outer_Full



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	10.00	11.88	/	/	/	/
Adjacent	-10	10.00	-34.44	-46.32	-30	16.32	Pass
Adjacent	10	10.00	-34.16	-46.04	-30	16.04	Pass

n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3555MHz_Outer_Full



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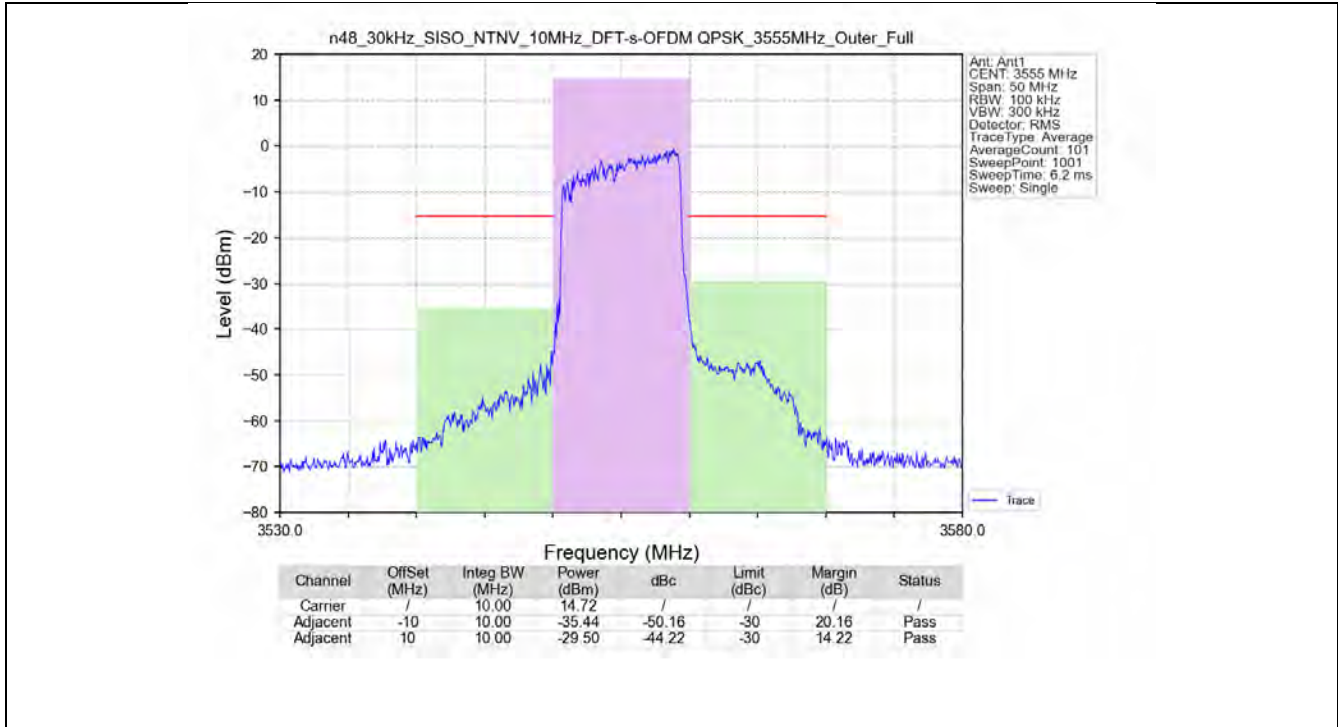


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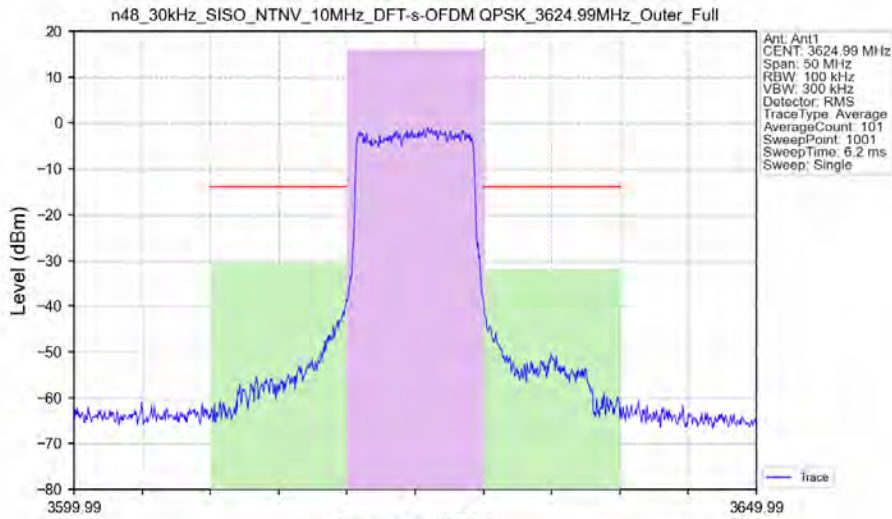
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_3694.98MHz_Outer_Full



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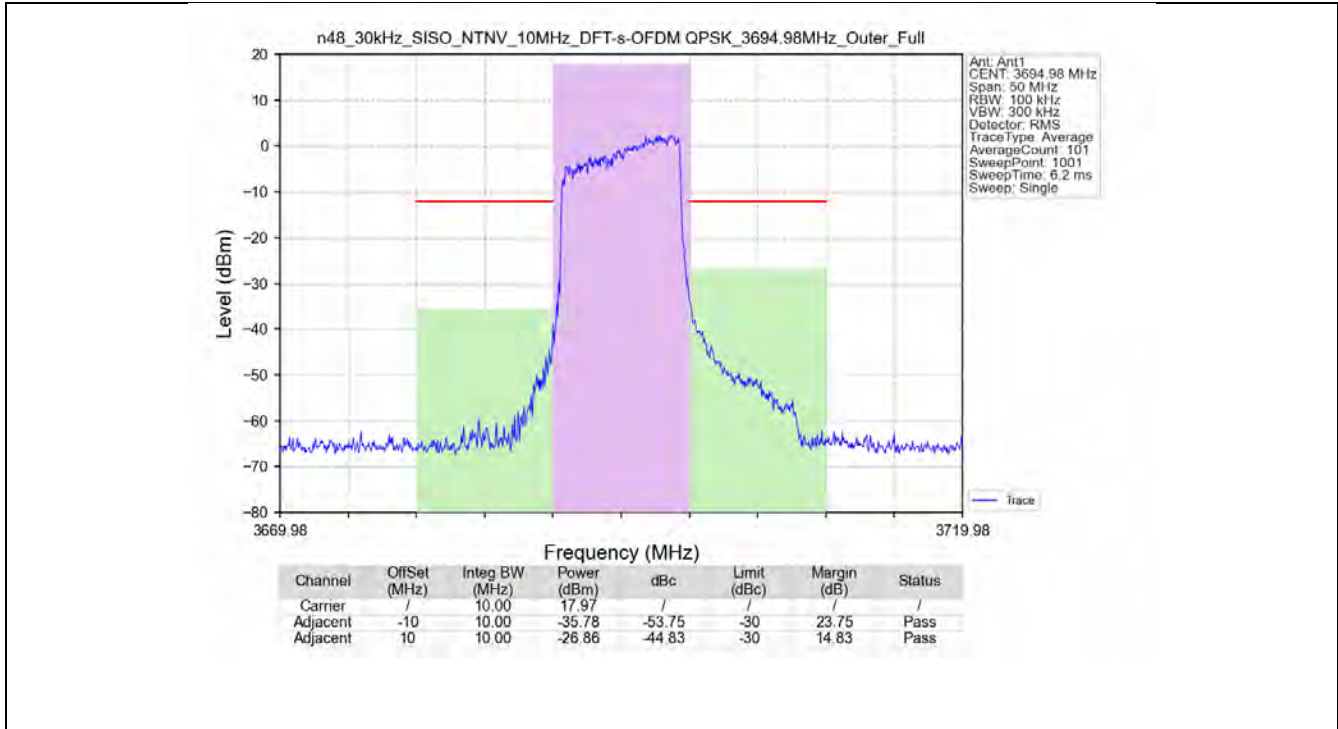


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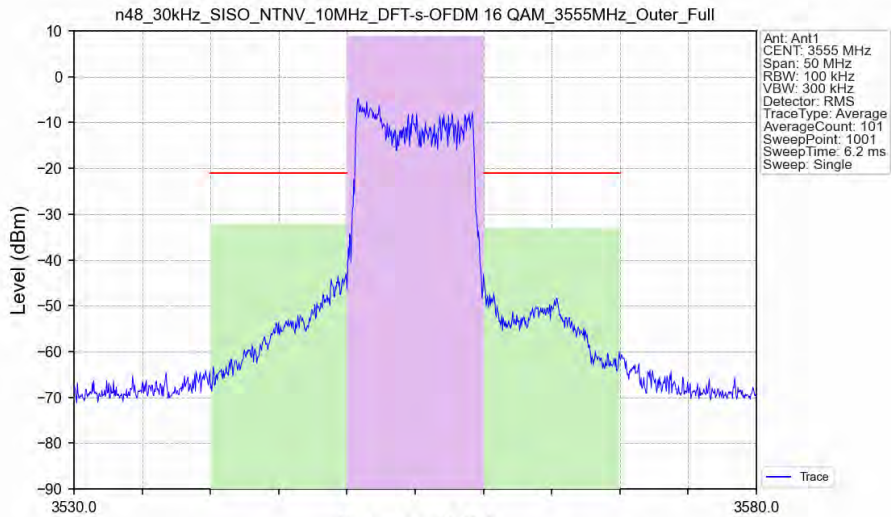
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_3555MHz_Outer_Full



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	10.00	8.88	/	/	/	/
Adjacent	-10	10.00	-32.07	-40.95	-30	10.95	Pass
Adjacent	10	10.00	-33.01	-41.89	-30	11.89	Pass

n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_3624.99MHz_Outer_Full



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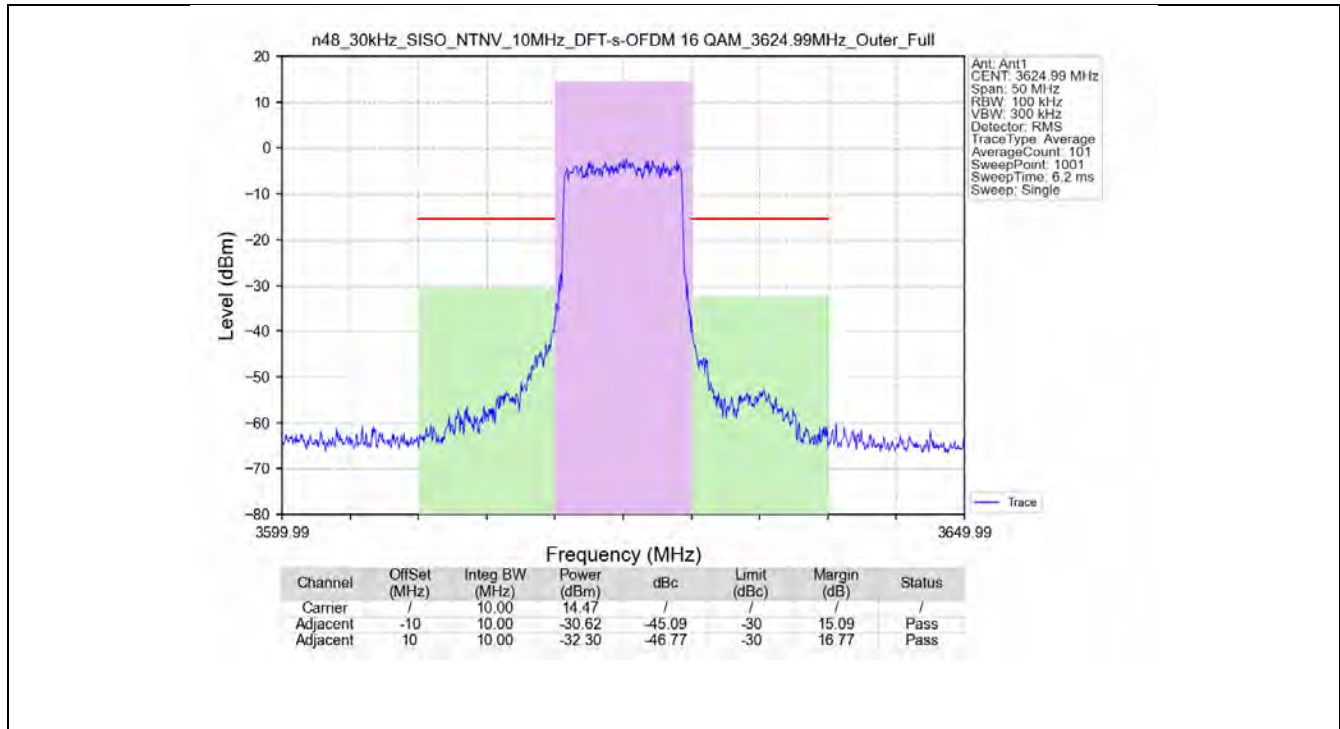


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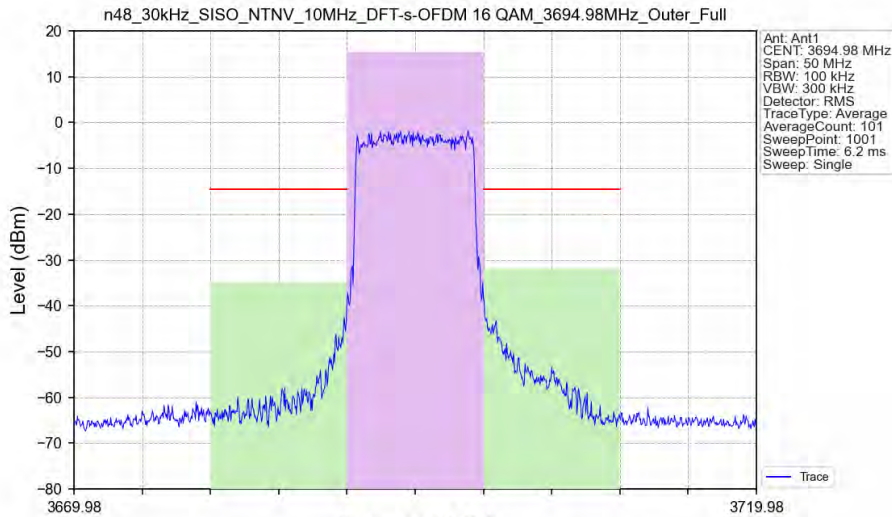
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 16 QAM_3694.98MHz_Outer_Full



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	10.00	15.35	/	/	/	/
Adjacent	-10	10.00	-34.84	-50.19	-30	20.19	Pass
Adjacent	10	10.00	-31.77	-47.12	-30	17.12	Pass

n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_3555MHz_Outer_Full



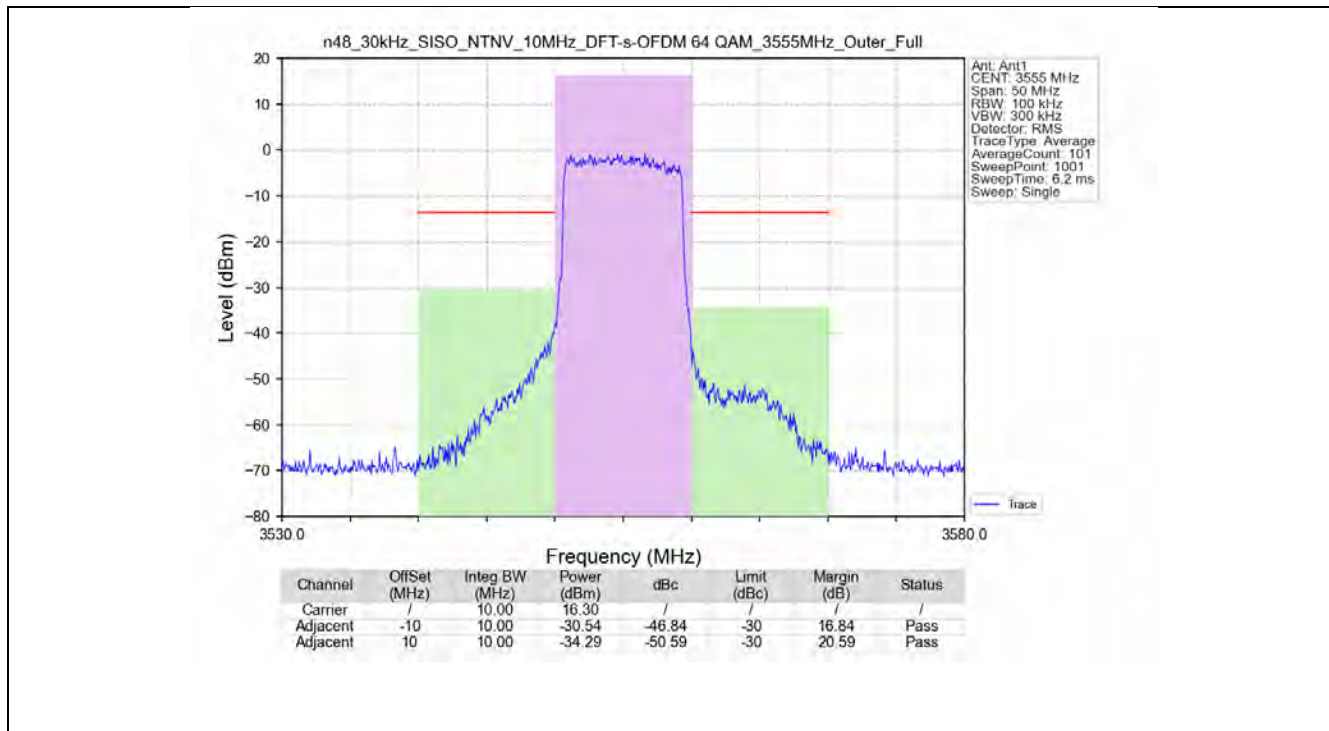
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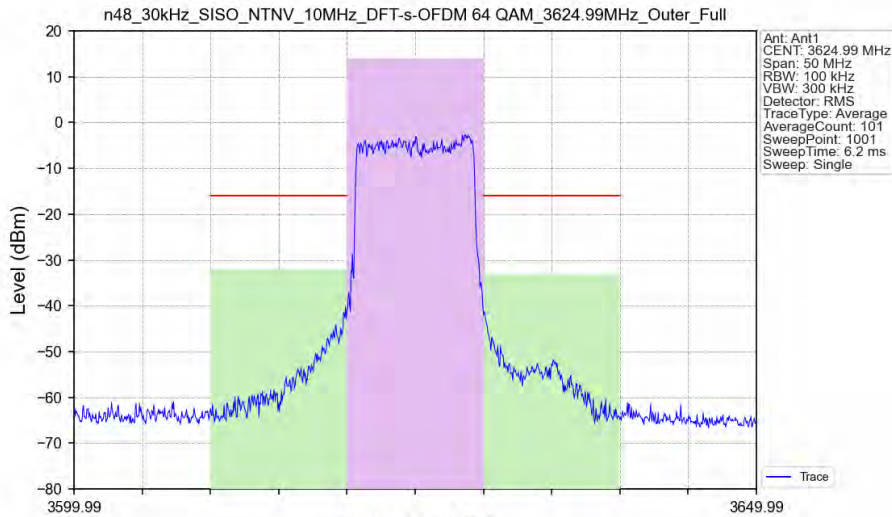
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n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_3624.99MHz_Outer_Full



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	10.00	14.06	/	/	/	/
Adjacent	-10	10.00	-32.05	-46.11	-30	16.11	Pass
Adjacent	10	10.00	-33.14	-47.20	-30	17.20	Pass

n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 64 QAM_3694.98MHz_Outer_Full



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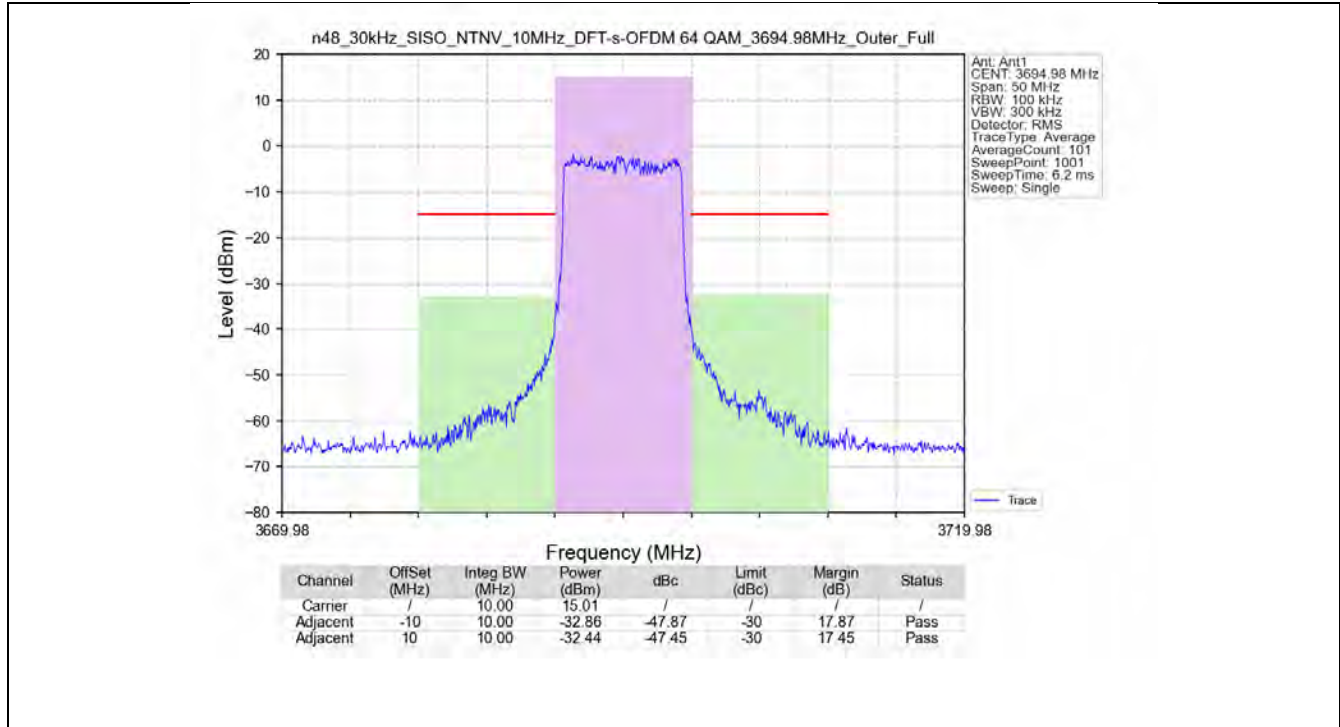


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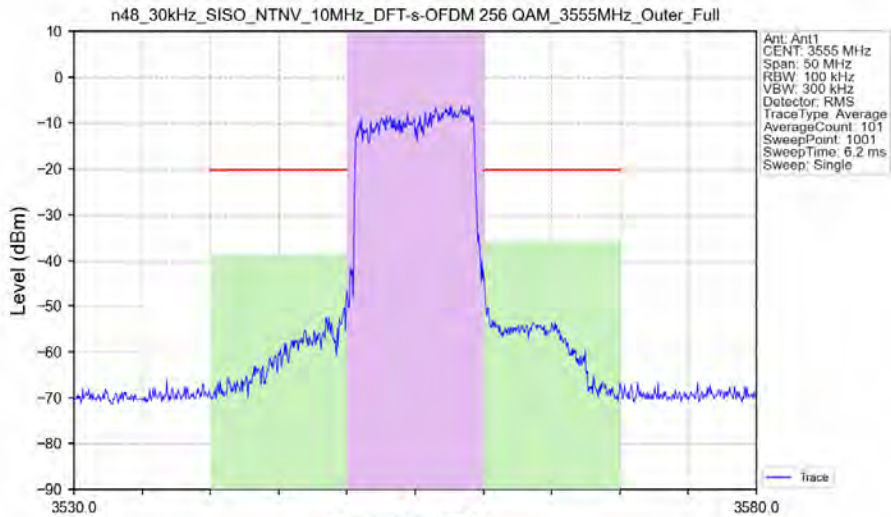
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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	10.00	9.66	/	/	/	/
Adjacent	-10	10.00	-38.59	-48.25	-30	18.25	Pass
Adjacent	10	10.00	-36.06	-45.72	-30	15.72	Pass

n48_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM_3624.99MHz_Outer_Full



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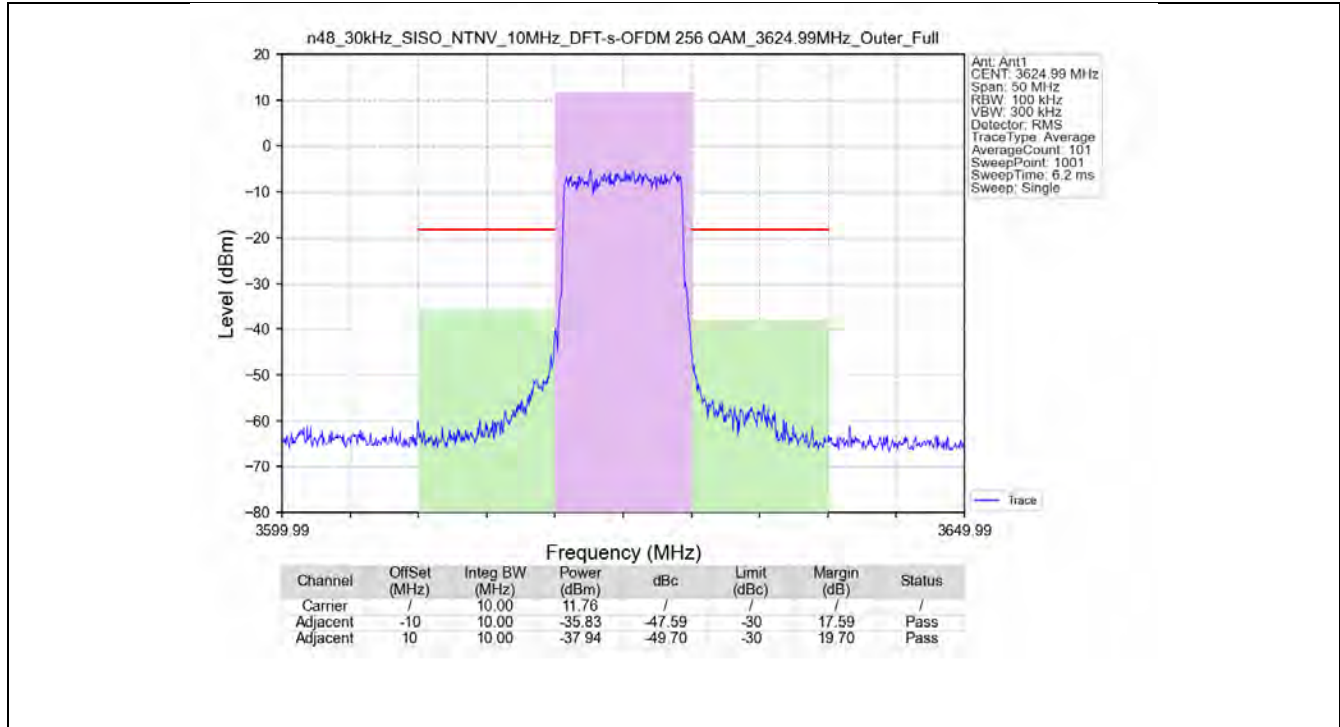


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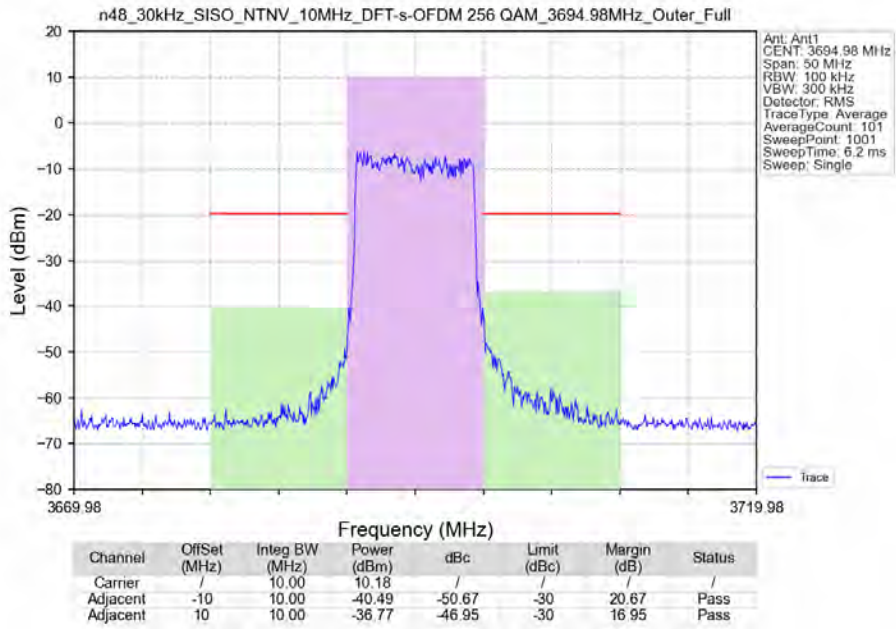
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3555MHz_Outer_Full



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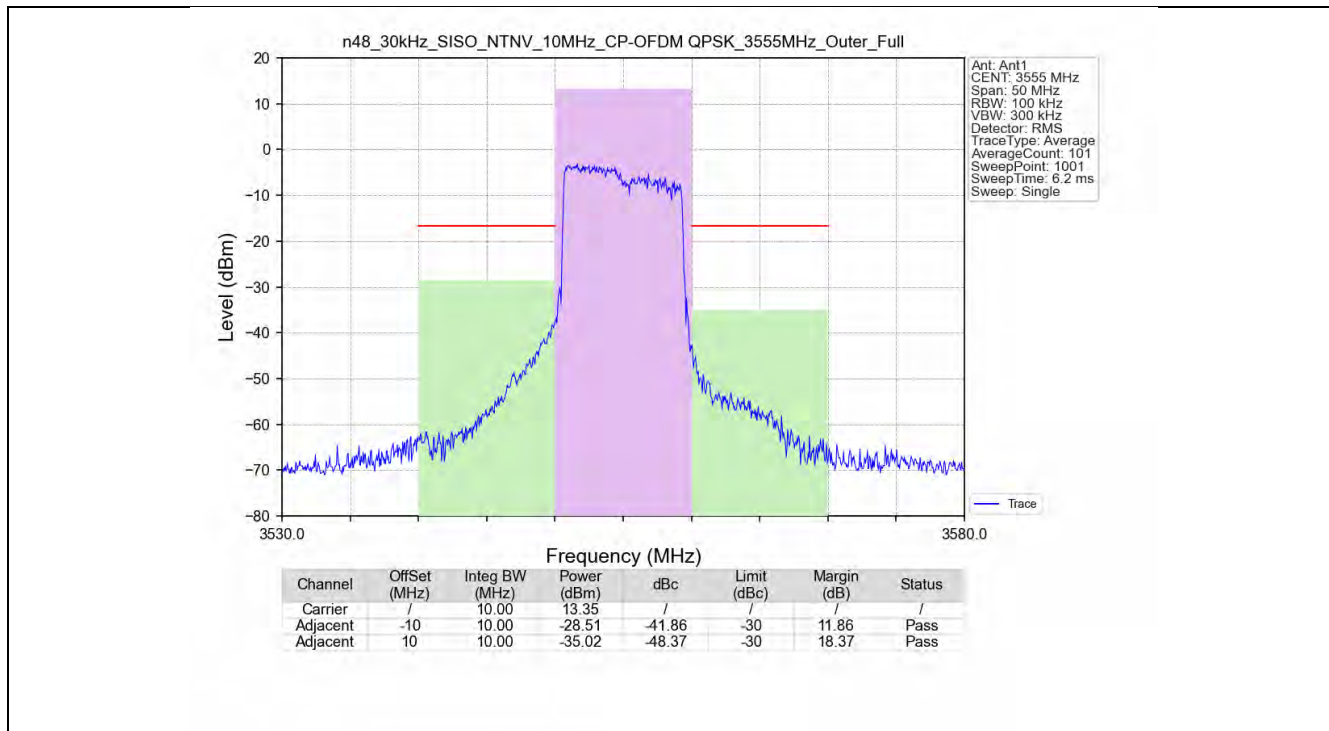
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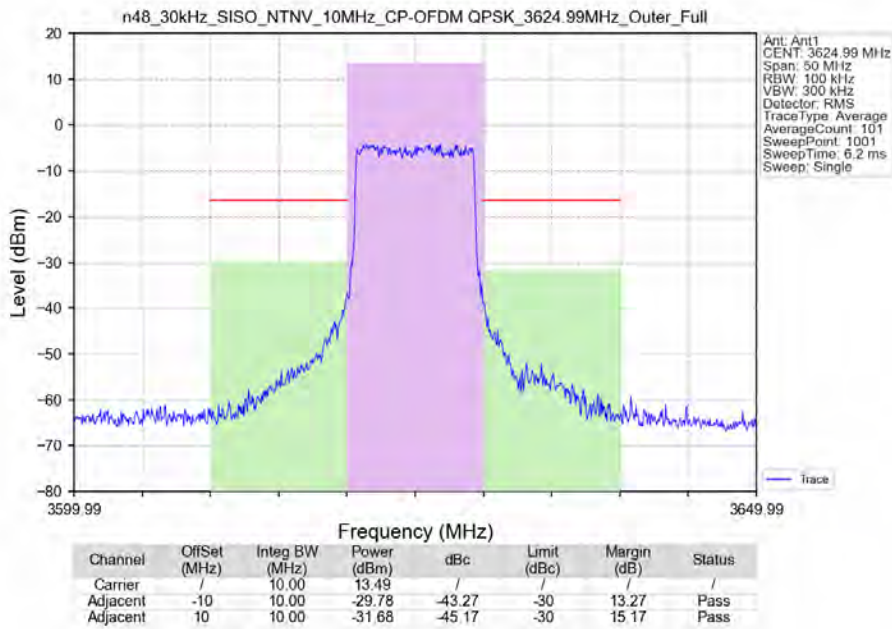
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_3694.98MHz_Outer_Full



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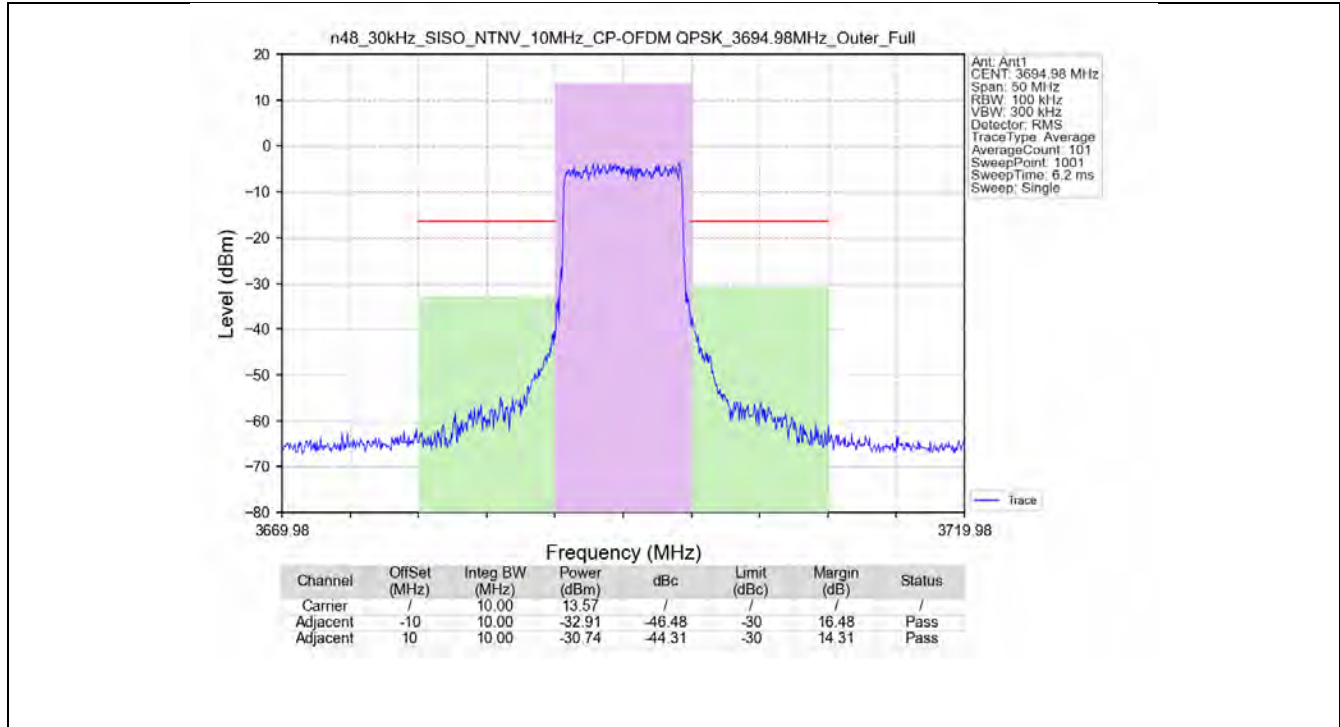


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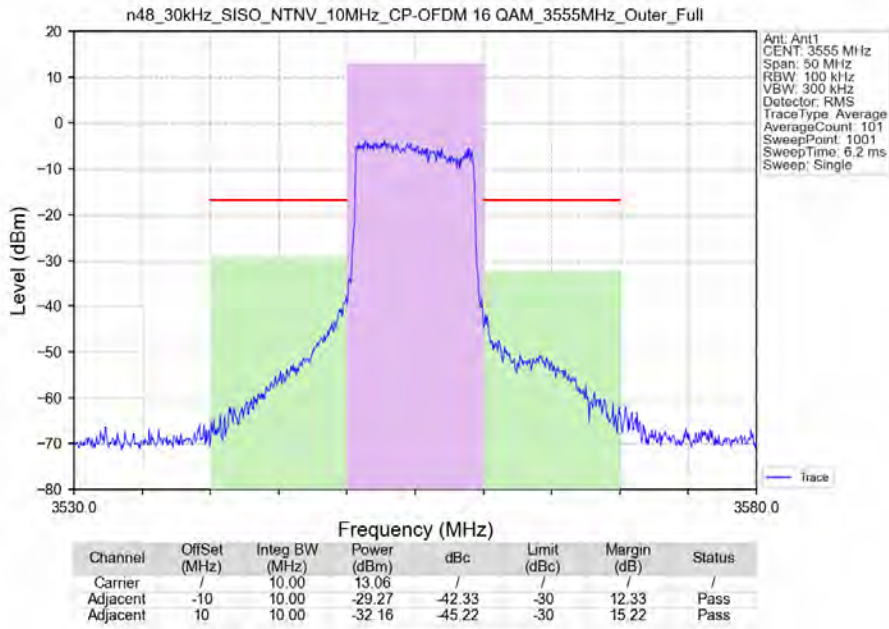
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_3555MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_3624.99MHz_Outer_Full



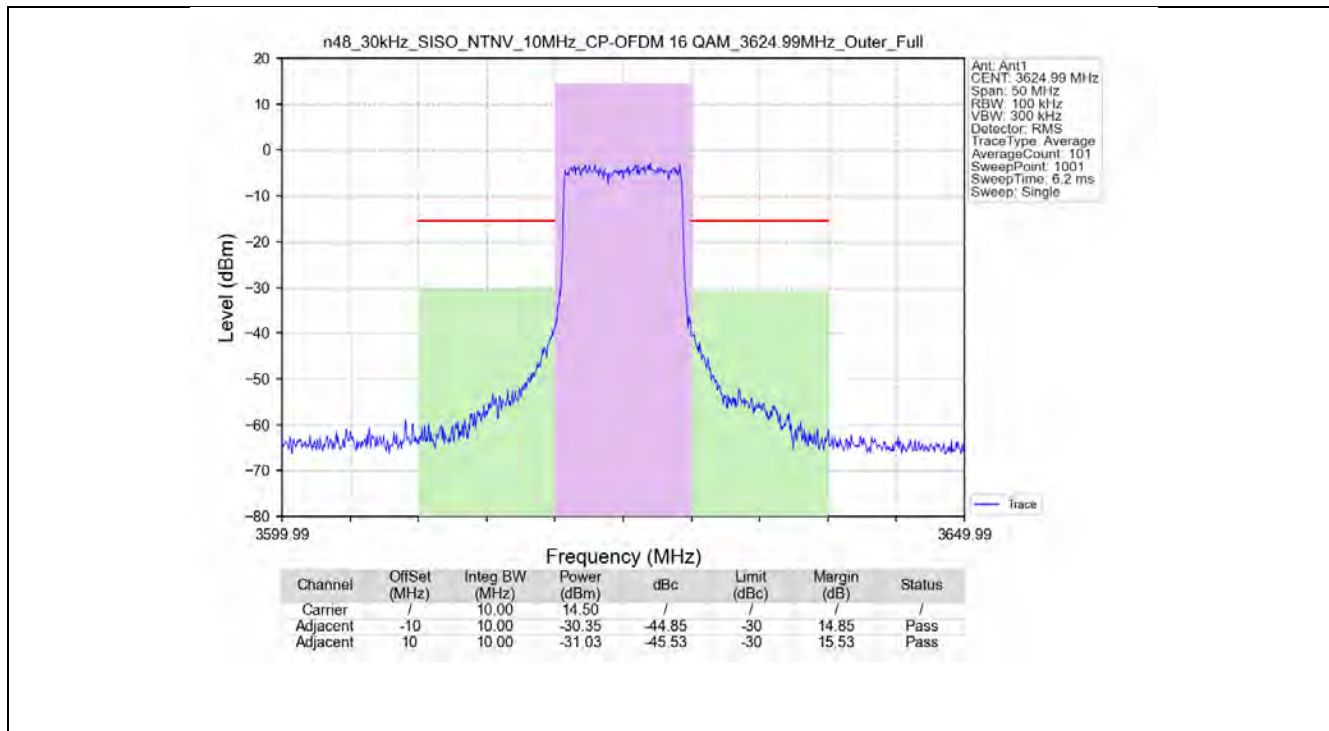
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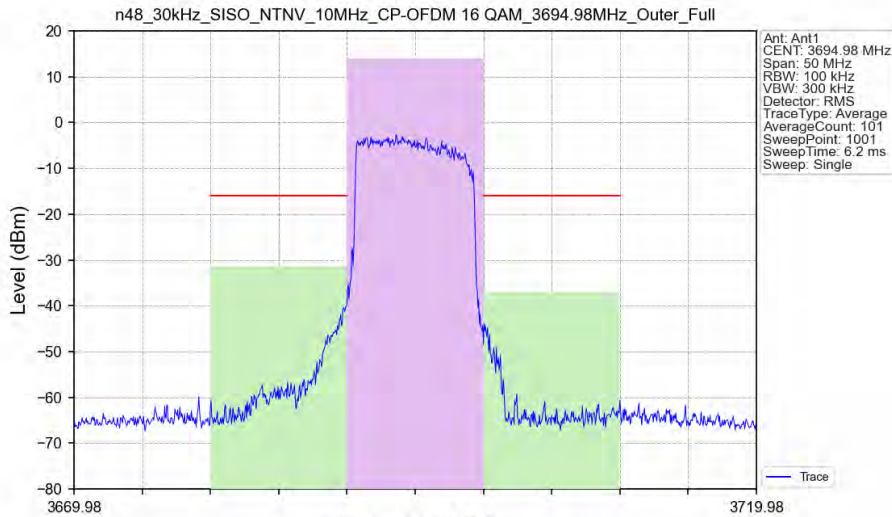
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_3694.98MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_3555MHz_Outer_Full



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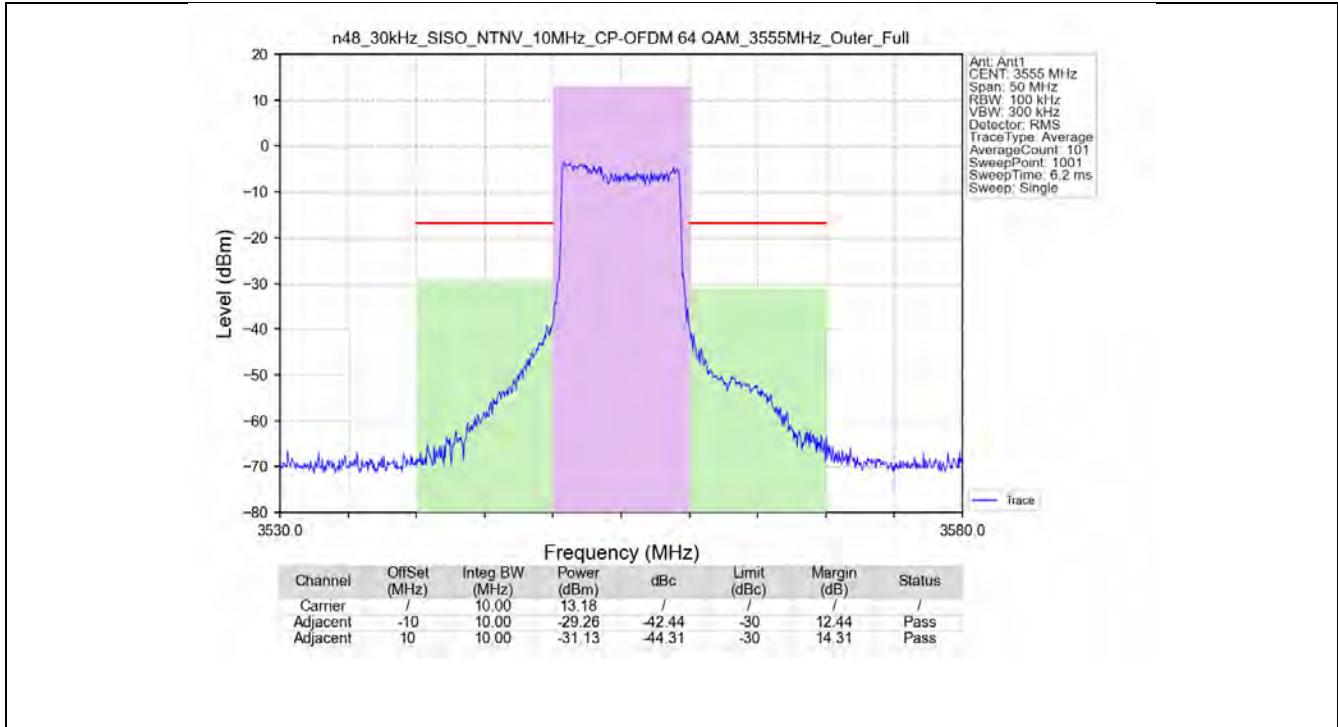


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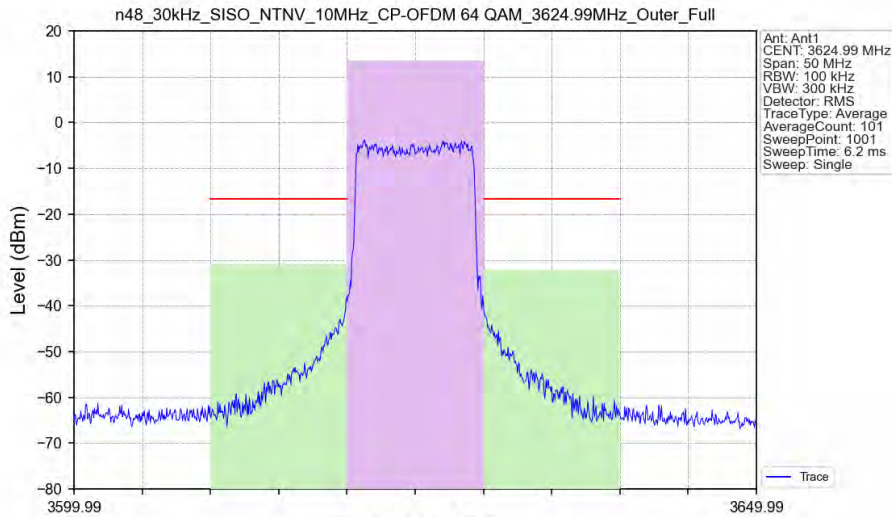
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_3694.98MHz_Outer_Full



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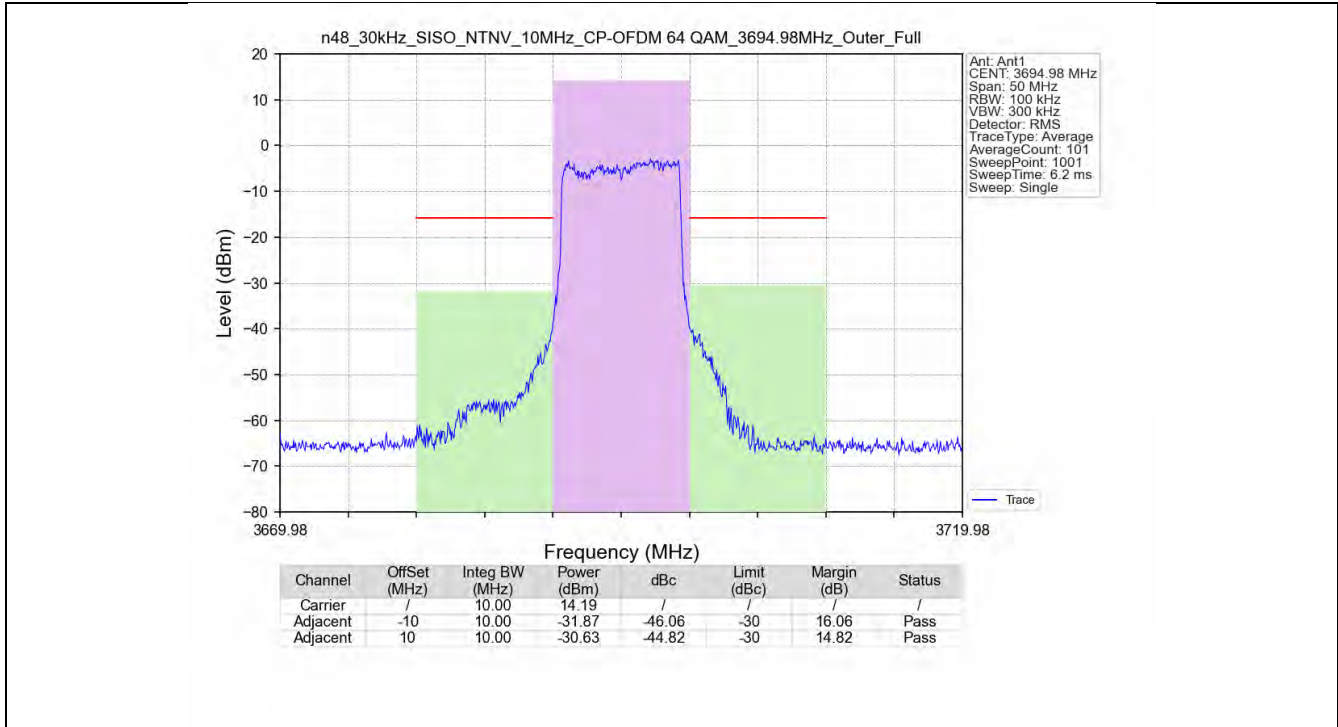


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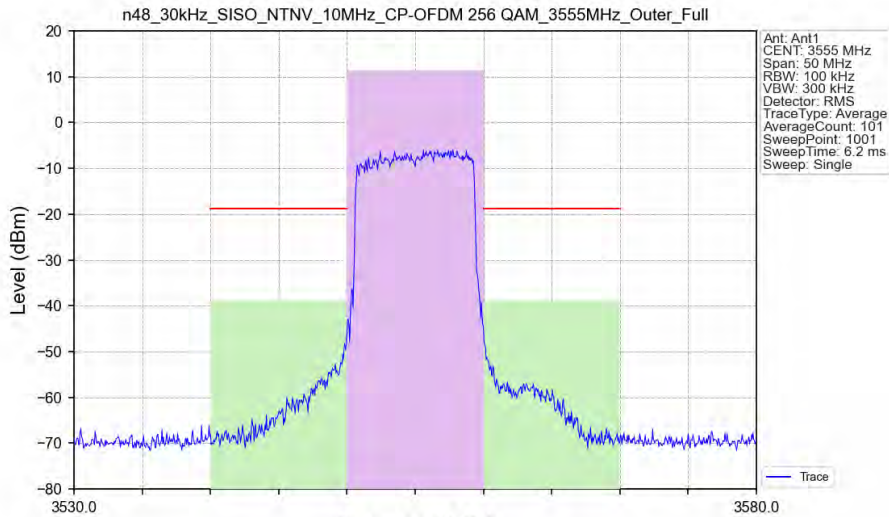
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n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_3555MHz_Outer_Full



n48_30kHz_SISO_NTNV_10MHz_CP-OFDM 256 QAM_3624.99MHz_Outer_Full



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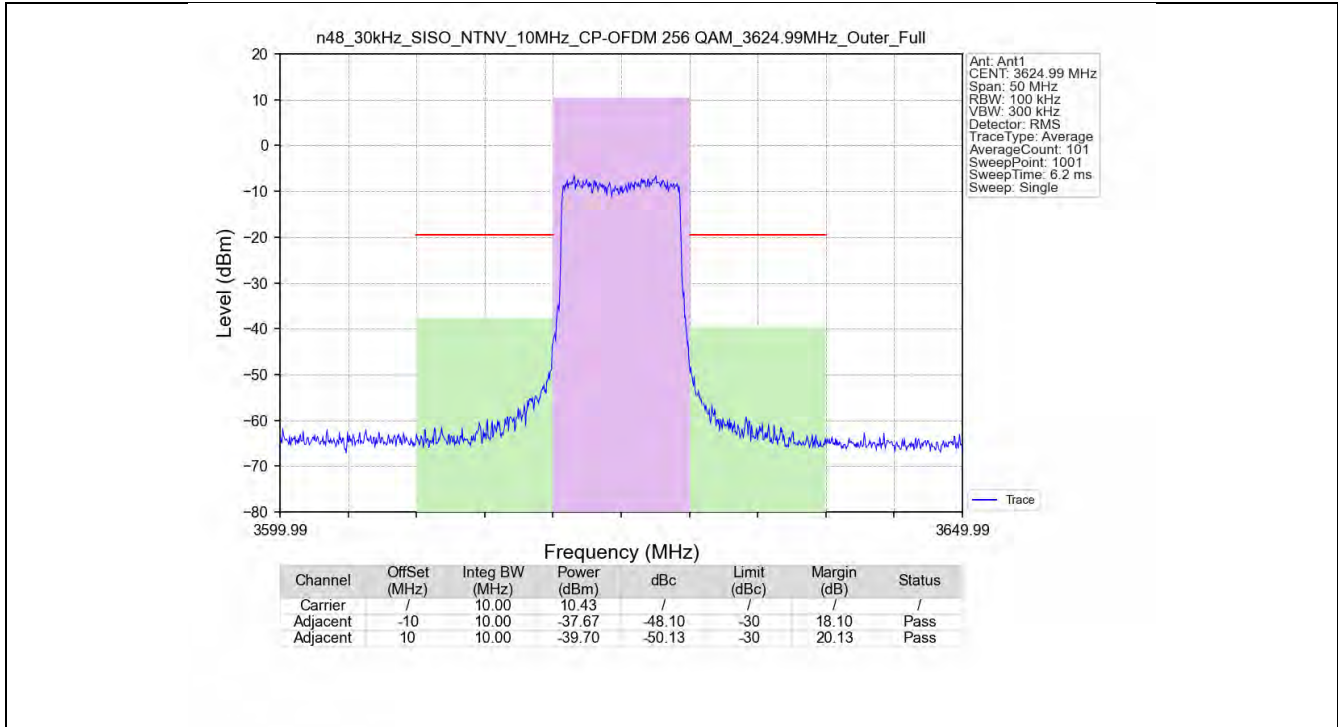


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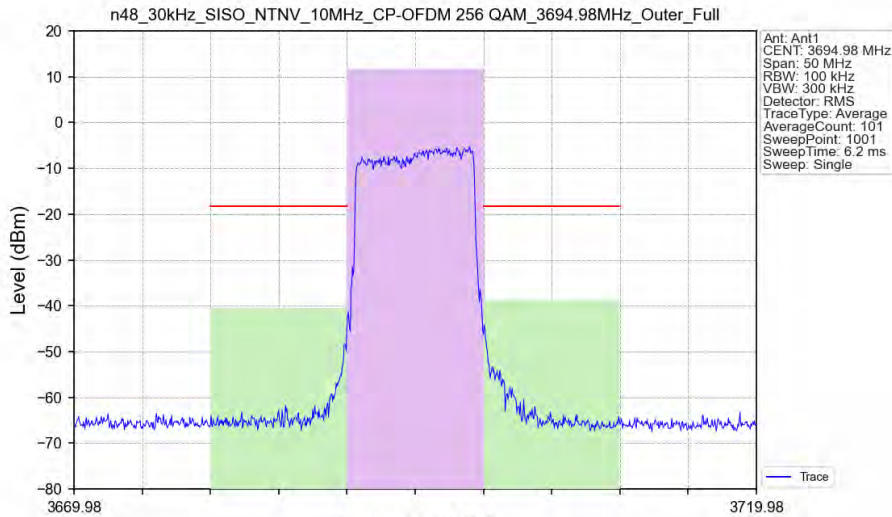
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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	10.00	11.71	/	/	/	/
Adjacent	-10	10.00	-40.42	-52.13	-30	22.13	Pass
Adjacent	10	10.00	-38.74	-50.45	-30	20.45	Pass



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6.2 30k_SISO_20MHz_NTNV

6.2.1 Test Result

5G NR n48 SCS=30kHz SISO 20MHz NNTV					
Modulation	Frequency (MHz)	RB Allocation	Adjacent Channel Leakage Ratio		Verdict
			Result	Limit	
DFT-s-OFDM PI/2 BPSK	3560.01	Outer_Full	Refer To Test Graph		Pass
	3624.99	Outer_Full	Refer To Test Graph		Pass
	3690	Outer_Full	Refer To Test Graph		Pass
DFT-s-OFDM QPSK	3560.01	Outer_Full	Refer To Test Graph		Pass
	3624.99	Outer_Full	Refer To Test Graph		Pass
	3690	Outer_Full	Refer To Test Graph		Pass
DFT-s-OFDM 16 QAM	3560.01	Outer_Full	Refer To Test Graph		Pass
	3624.99	Outer_Full	Refer To Test Graph		Pass
	3690	Outer_Full	Refer To Test Graph		Pass
DFT-s-OFDM 64 QAM	3560.01	Outer_Full	Refer To Test Graph		Pass
	3624.99	Outer_Full	Refer To Test Graph		Pass
	3690	Outer_Full	Refer To Test Graph		Pass
DFT-s-OFDM 256 QAM	3560.01	Outer_Full	Refer To Test Graph		Pass
	3624.99	Outer_Full	Refer To Test Graph		Pass
	3690	Outer_Full	Refer To Test Graph		Pass
CP-OFDM QPSK	3560.01	Outer_Full	Refer To Test Graph		Pass
	3624.99	Outer_Full	Refer To Test Graph		Pass
	3690	Outer_Full	Refer To Test Graph		Pass
CP-OFDM 16 QAM	3560.01	Outer_Full	Refer To Test Graph		Pass
	3624.99	Outer_Full	Refer To Test Graph		Pass
	3690	Outer_Full	Refer To Test Graph		Pass
CP-OFDM 64 QAM	3560.01	Outer_Full	Refer To Test Graph		Pass
	3624.99	Outer_Full	Refer To Test Graph		Pass
	3690	Outer_Full	Refer To Test Graph		Pass
CP-OFDM 256 QAM	3560.01	Outer_Full	Refer To Test Graph		Pass
	3624.99	Outer_Full	Refer To Test Graph		Pass
	3690	Outer_Full	Refer To Test Graph		Pass



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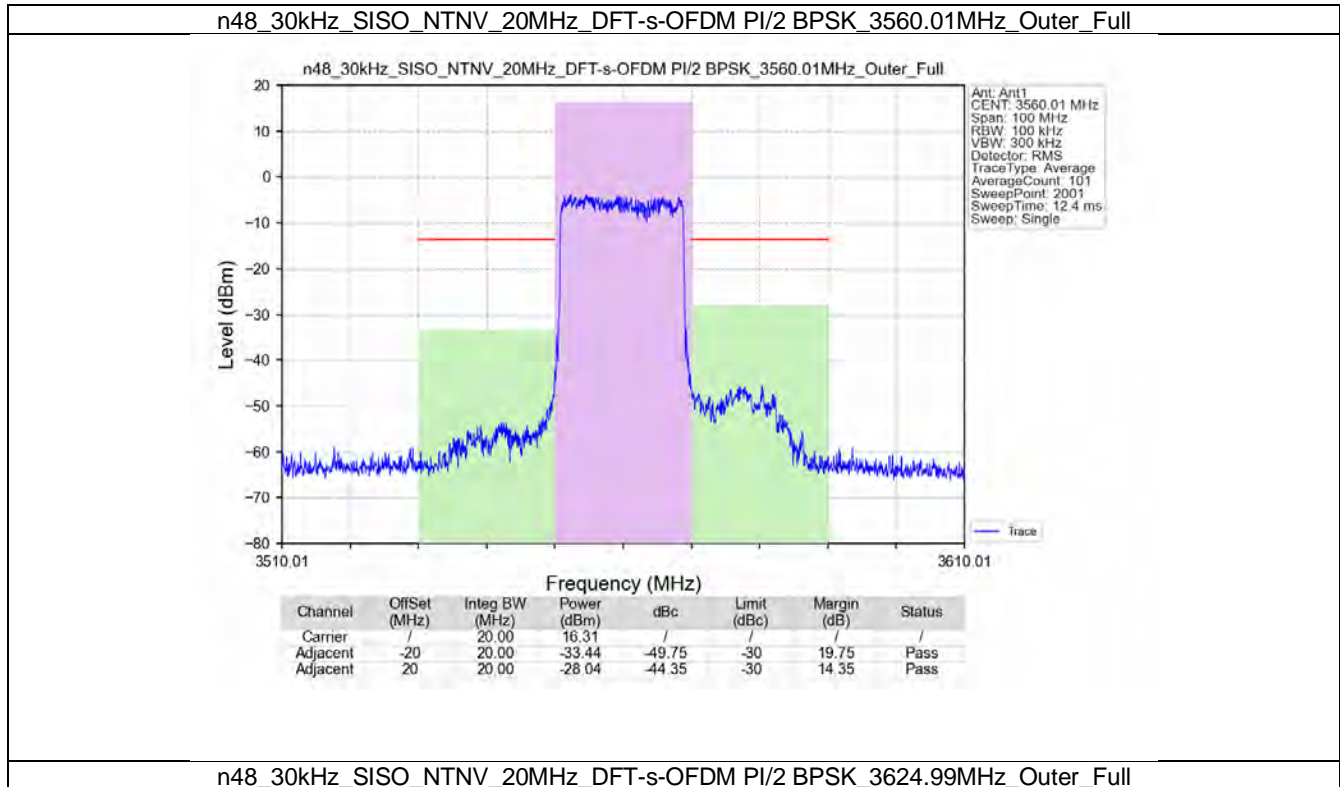
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6.2.2 Test Graph



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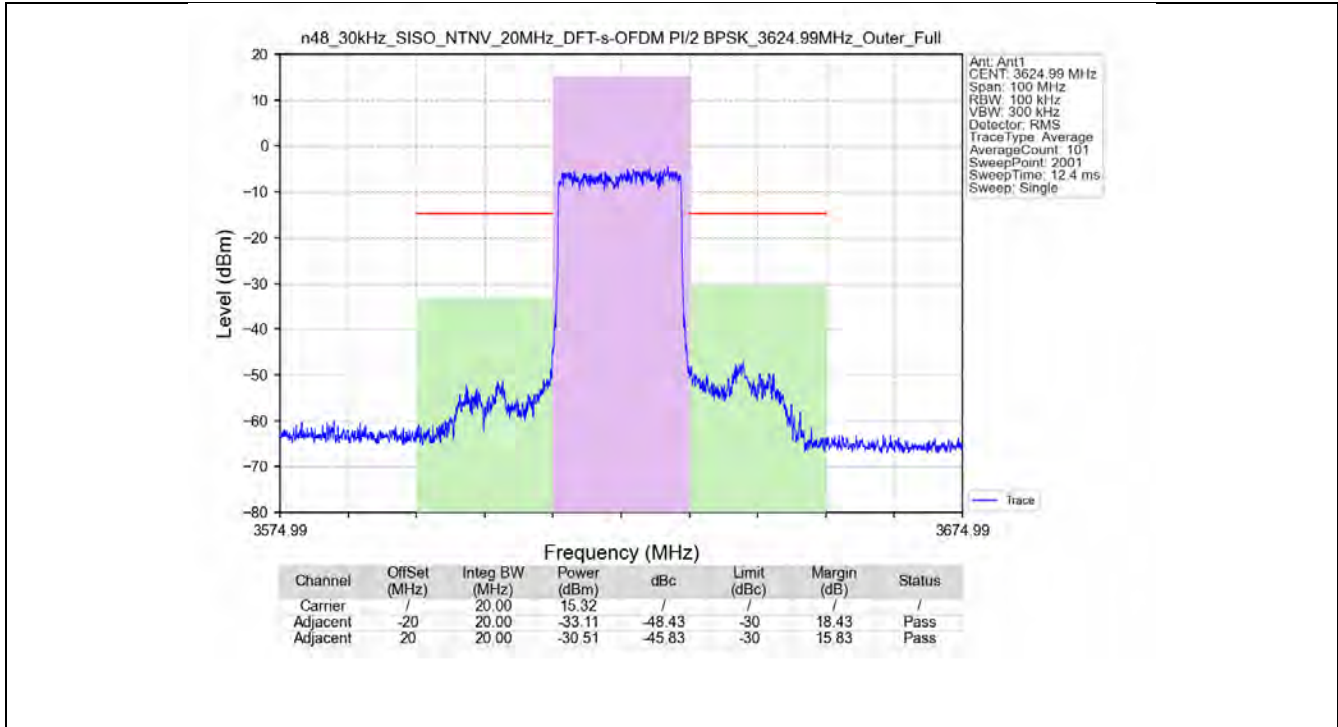


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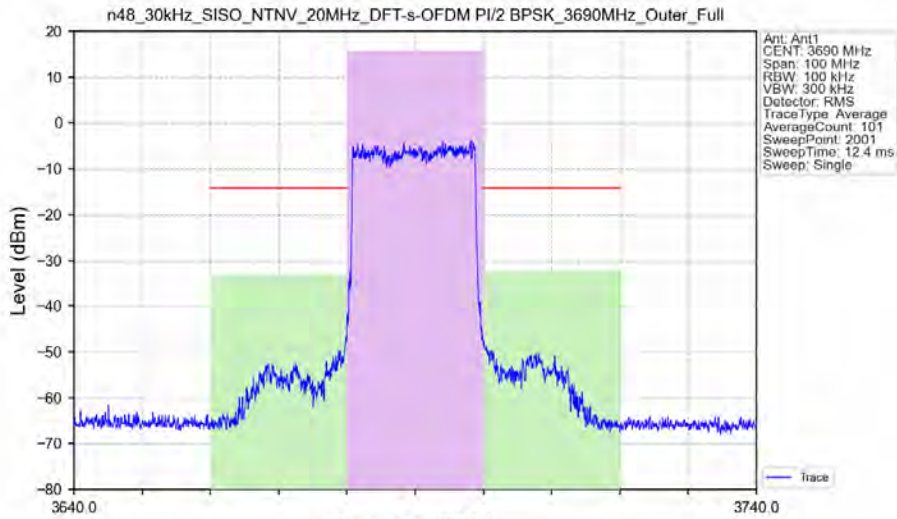
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM PI/2 BPSK_3690MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM QPSK_3560.01MHz_Outer_Full



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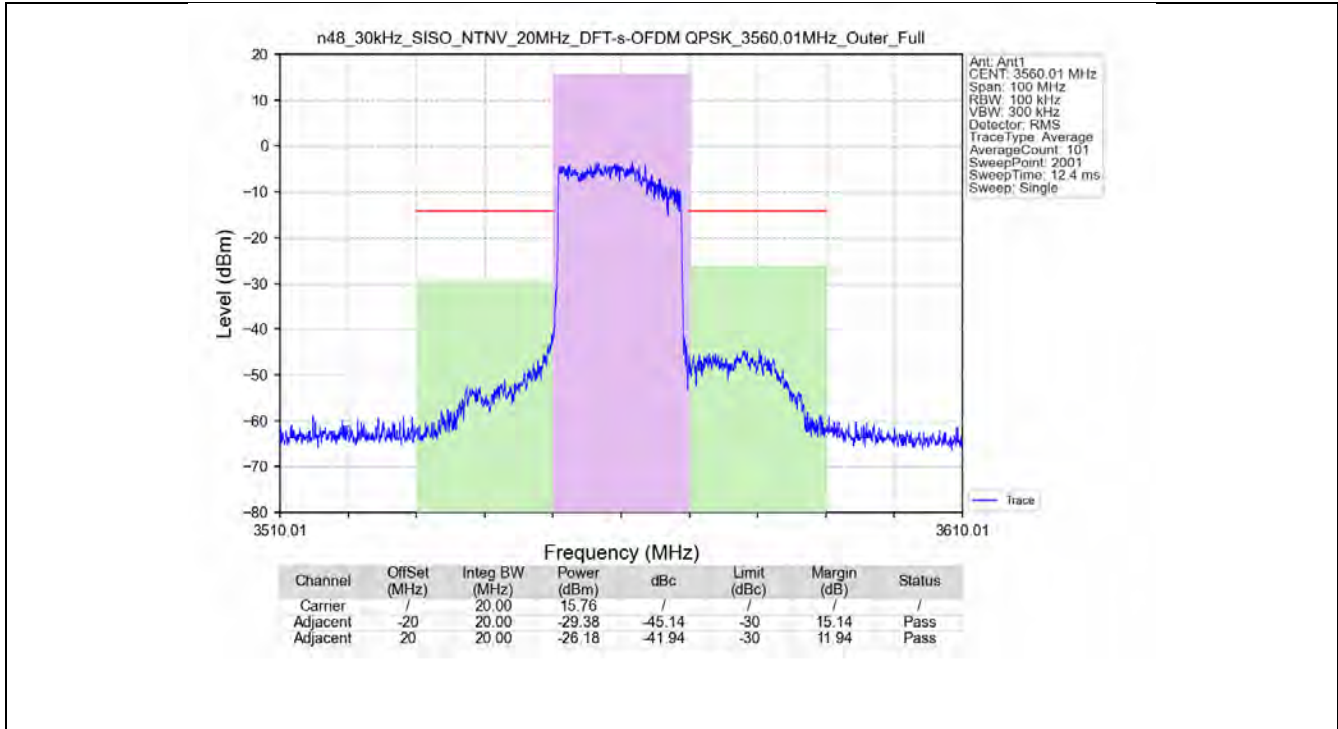


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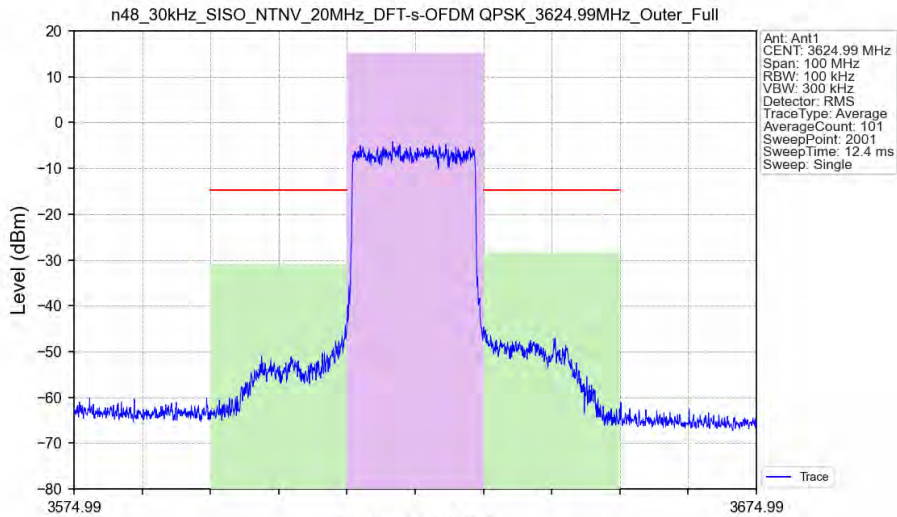
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_QPSK_3690MHz_Outer_Full



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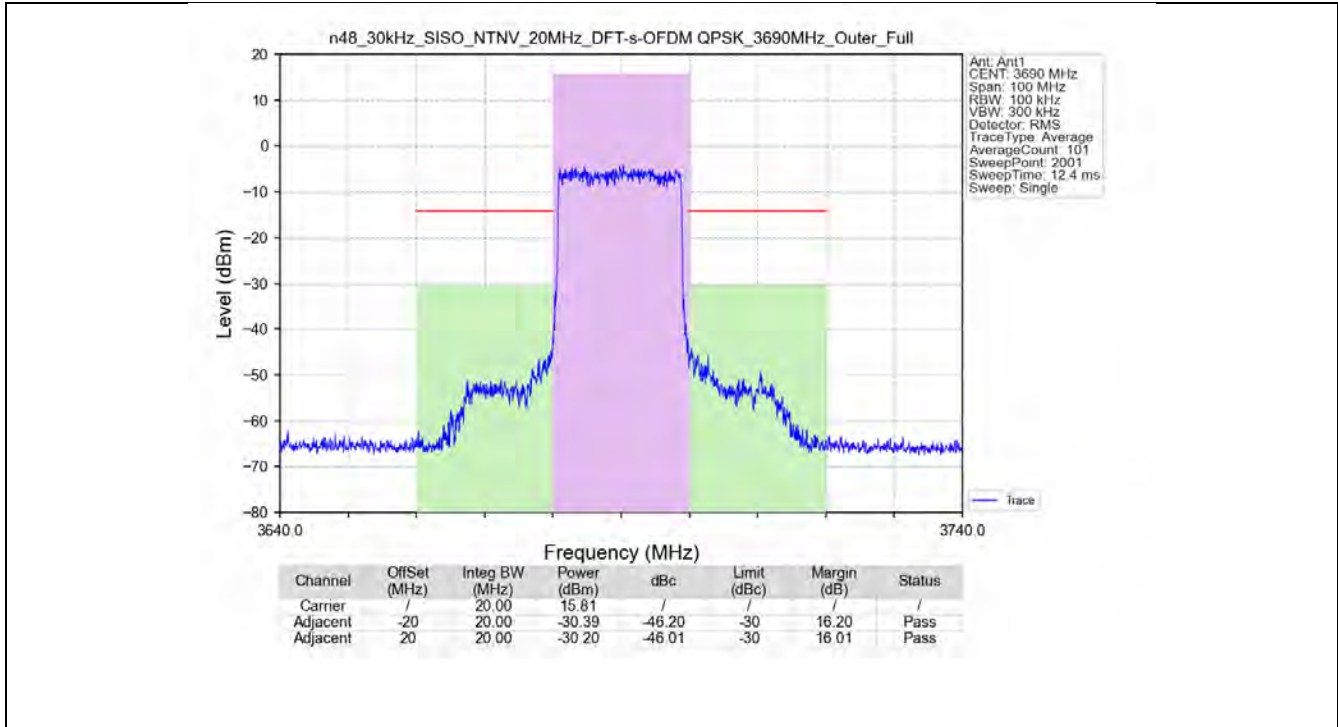


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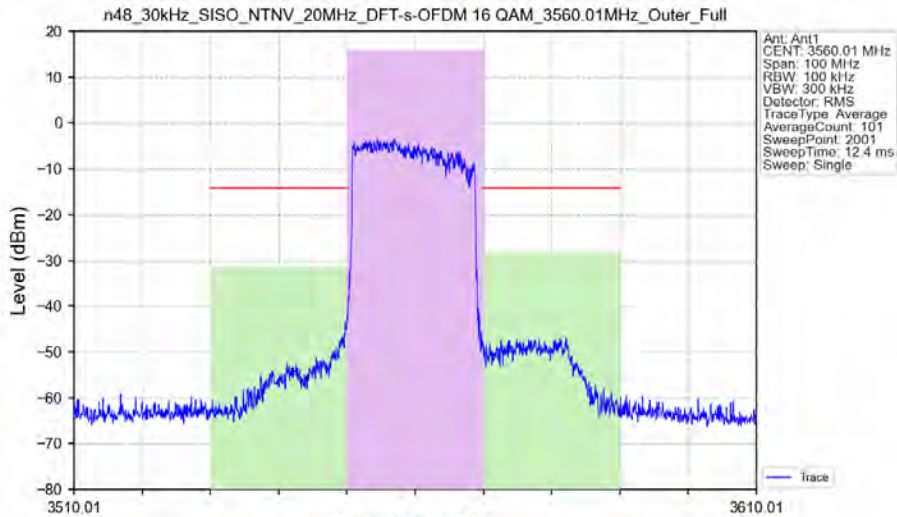
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_3560.01MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_3624.99MHz_Outer_Full



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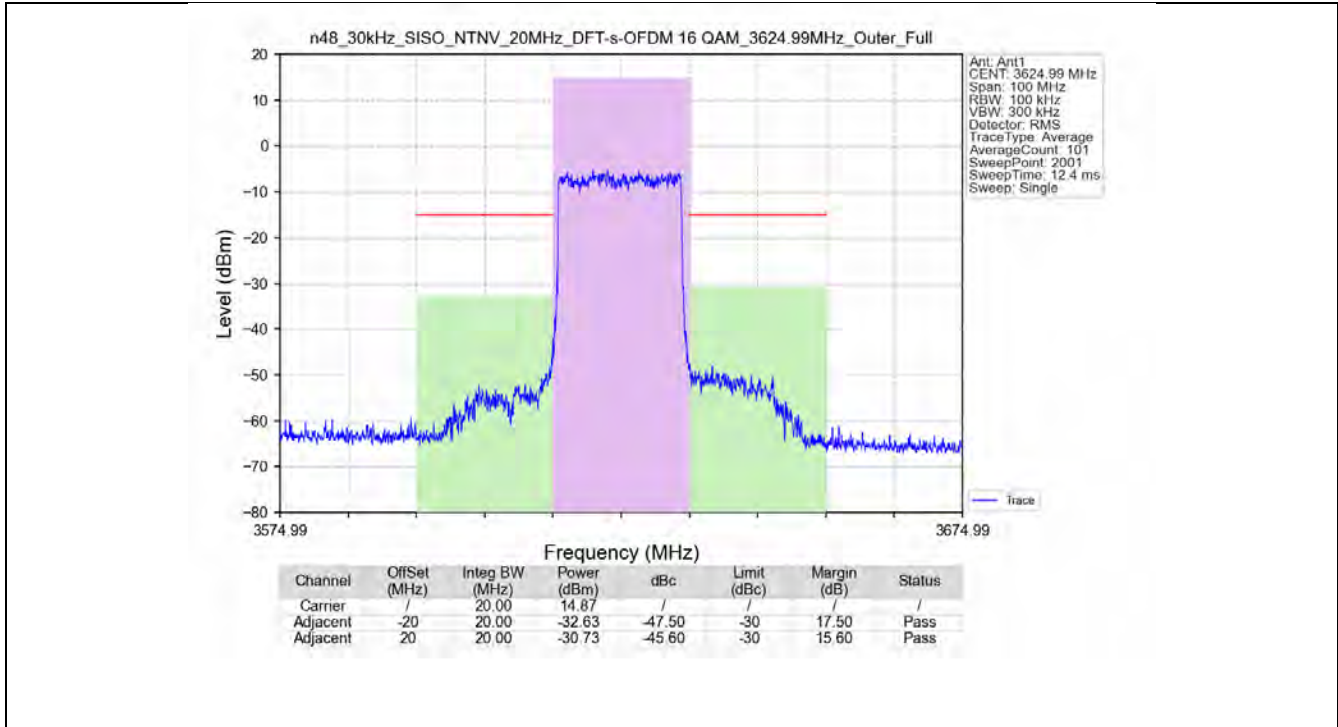


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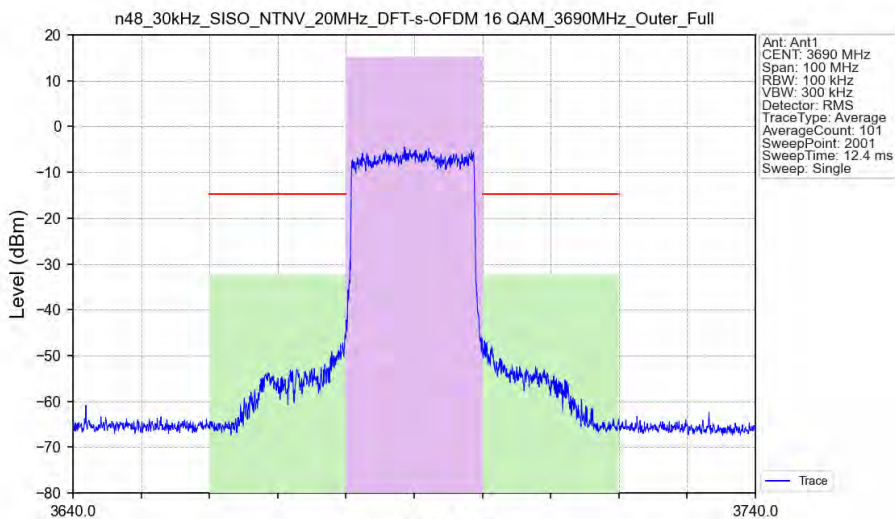
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 16 QAM_3690MHz_Outer_Full



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	15.19	/	/	/	/
Adjacent	-20	20.00	-32.34	-47.53	-30	17.53	Pass
Adjacent	20	20.00	-32.44	-47.63	-30	17.63	Pass

n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_3560.01MHz_Outer_Full



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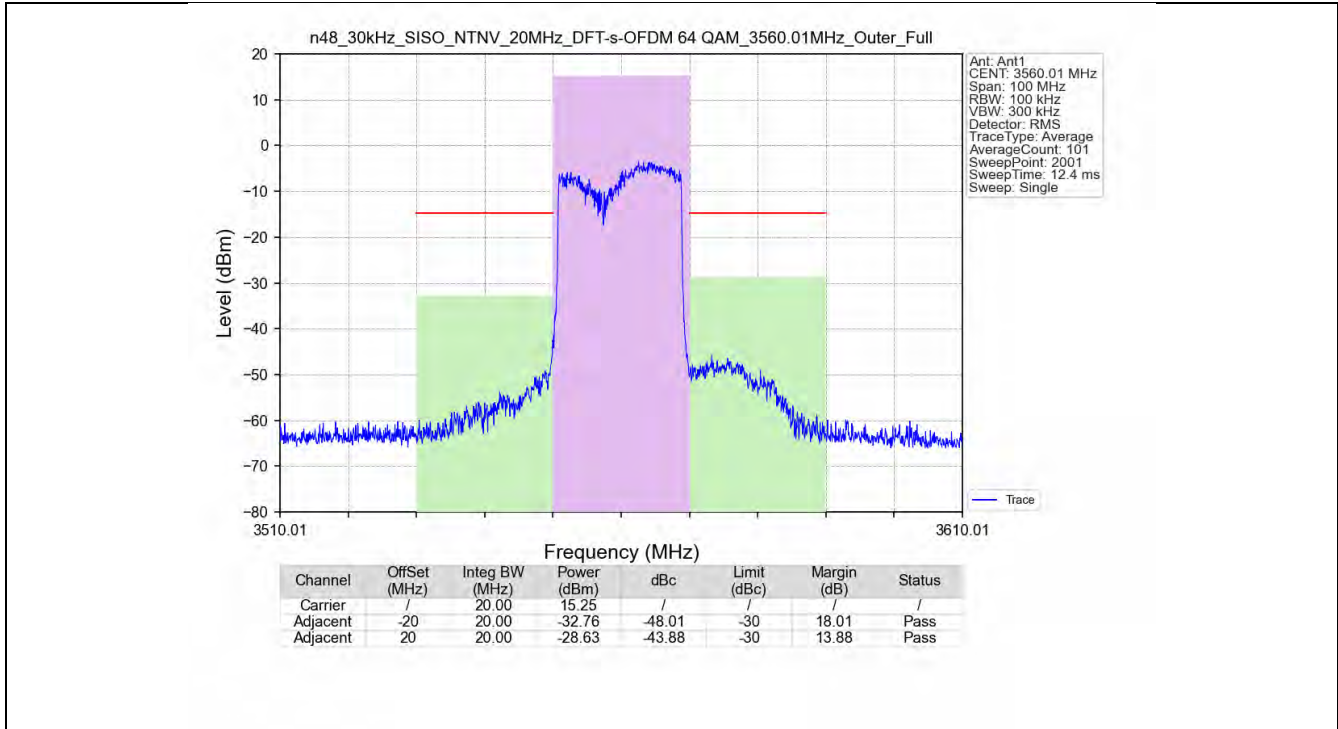


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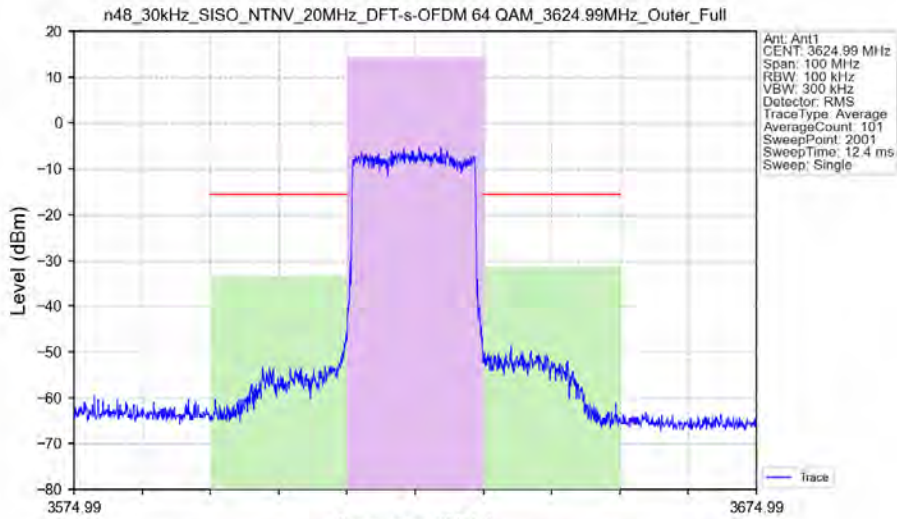
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_3624.99MHz_Outer_Full



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	14.33	/	/	/	/
Adjacent	-20	20.00	-33.44	-47.77	-30	17.77	Pass
Adjacent	20	20.00	-31.45	-45.78	-30	15.78	Pass

n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM 64 QAM_3690MHz_Outer_Full



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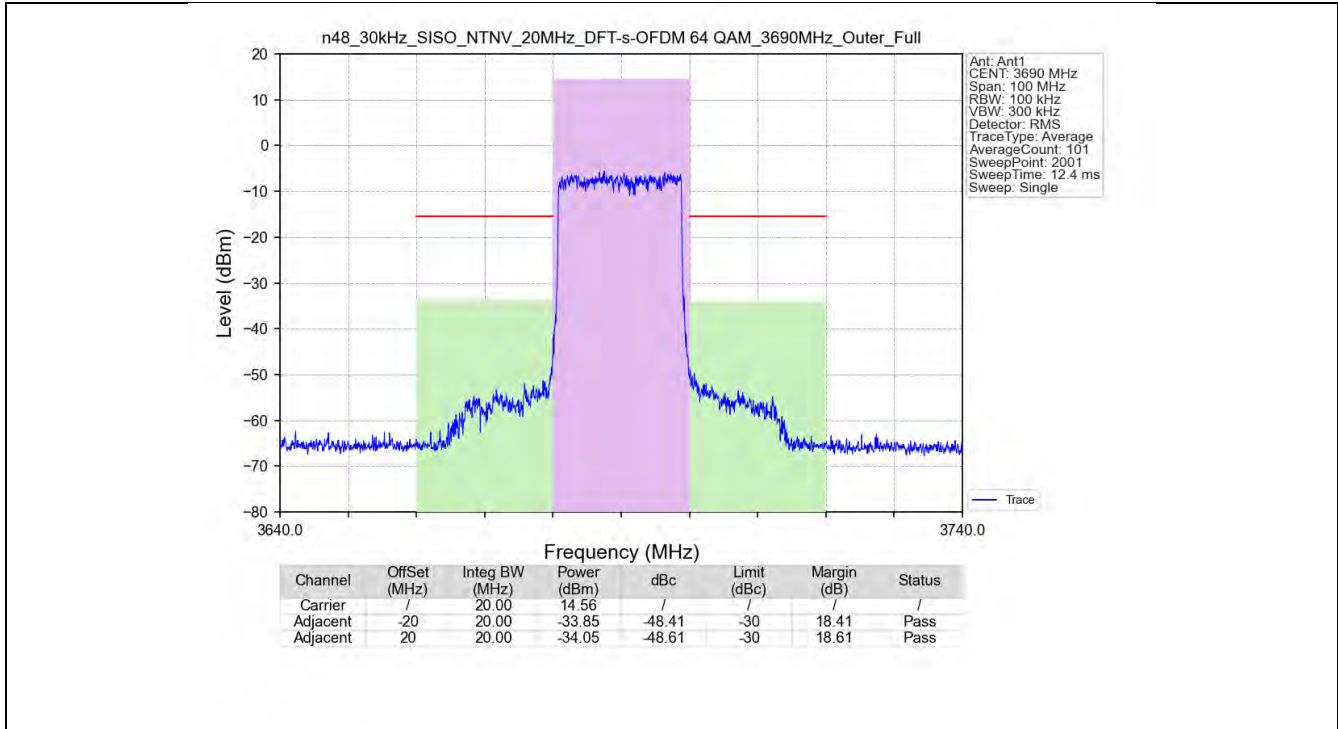


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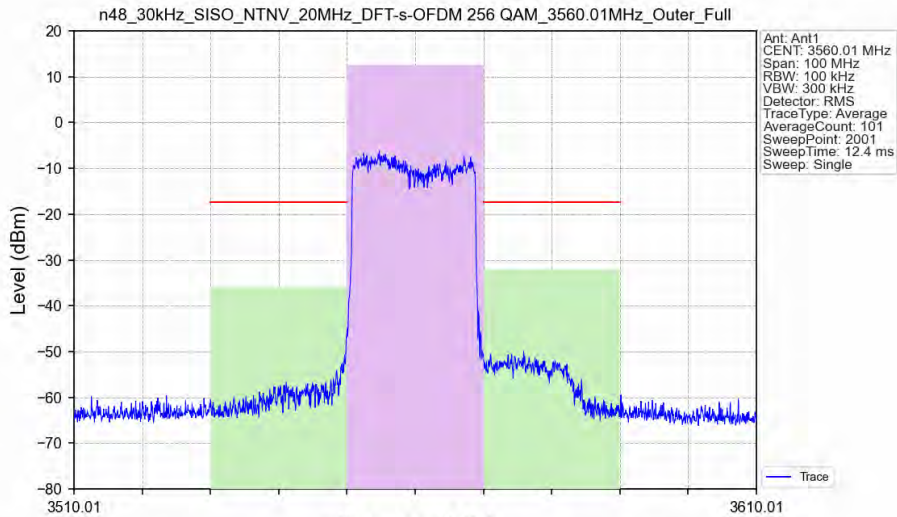
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n48_30kHz_SISO_NTNV_20MHz_DFT-s-OFDM_256_QAM_3624.99MHz_Outer_Full



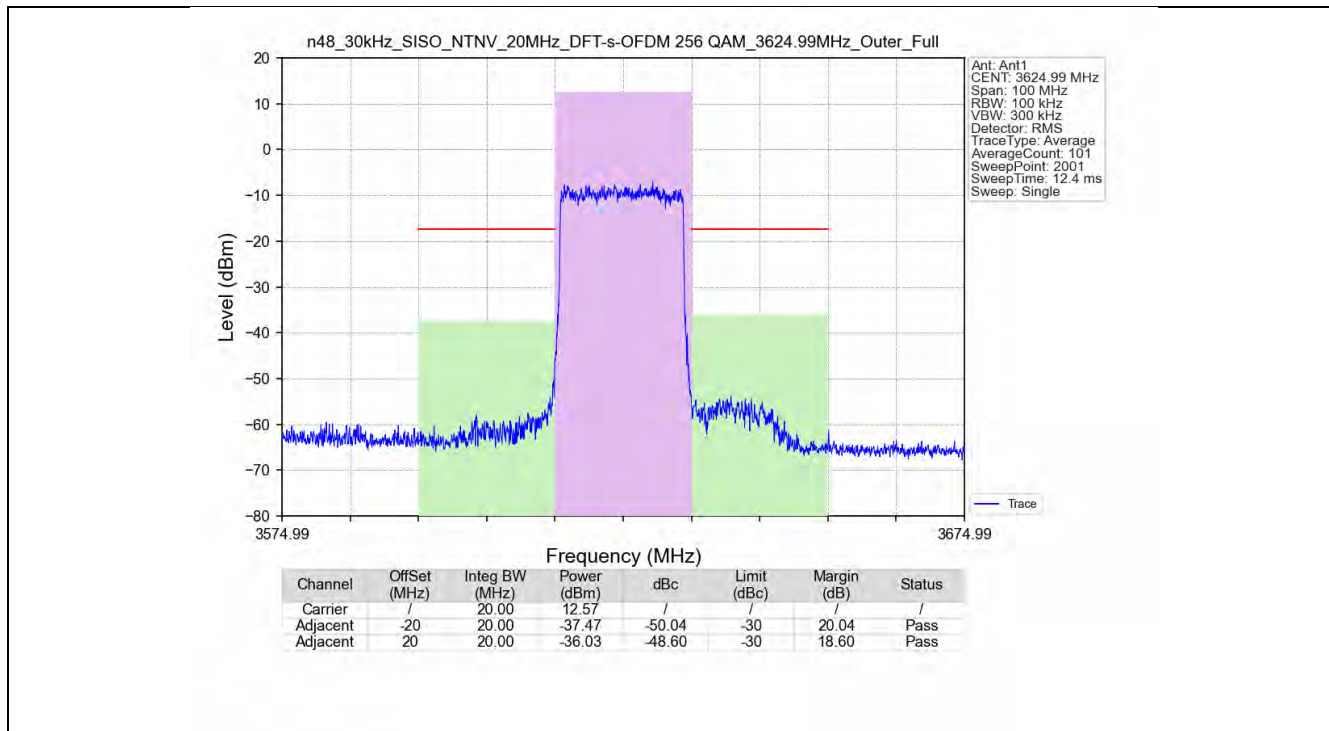
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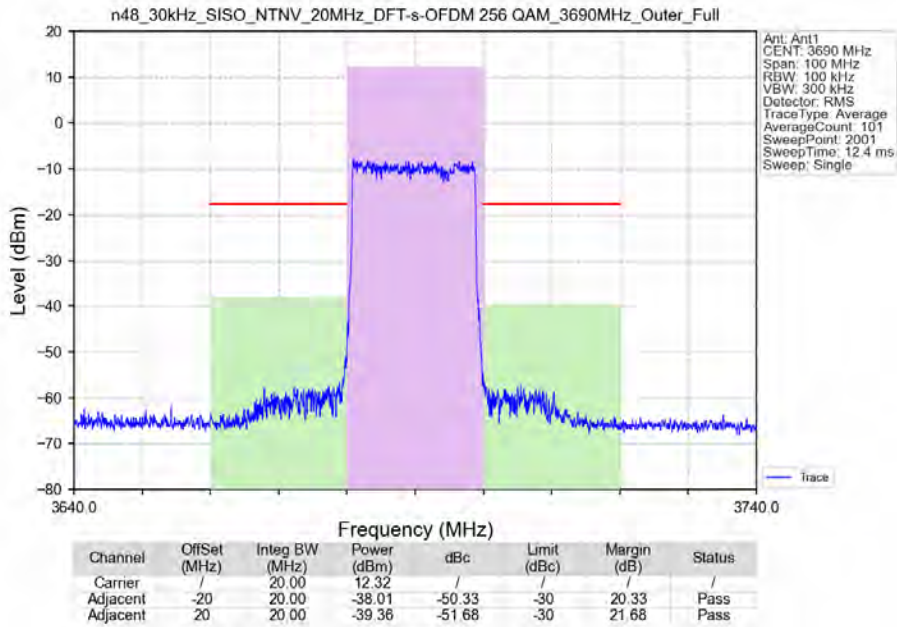
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n48_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3560.01MHz_Outer_Full



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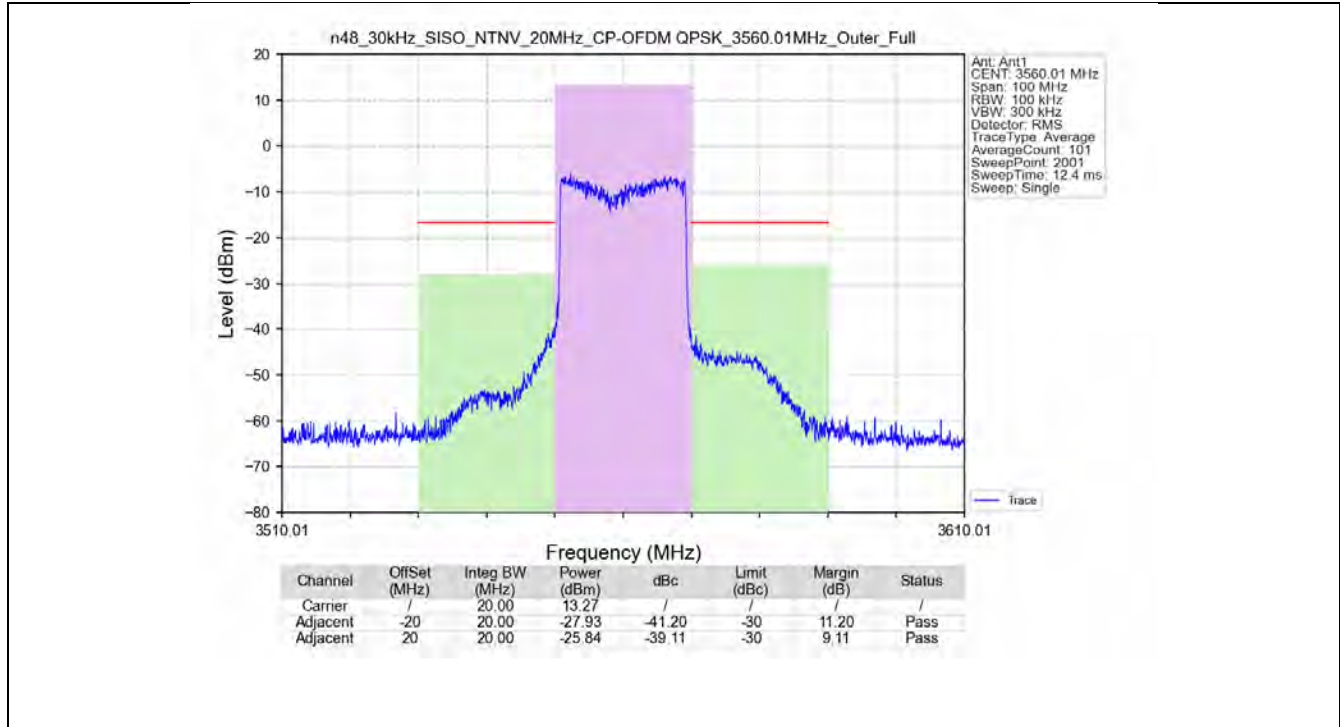


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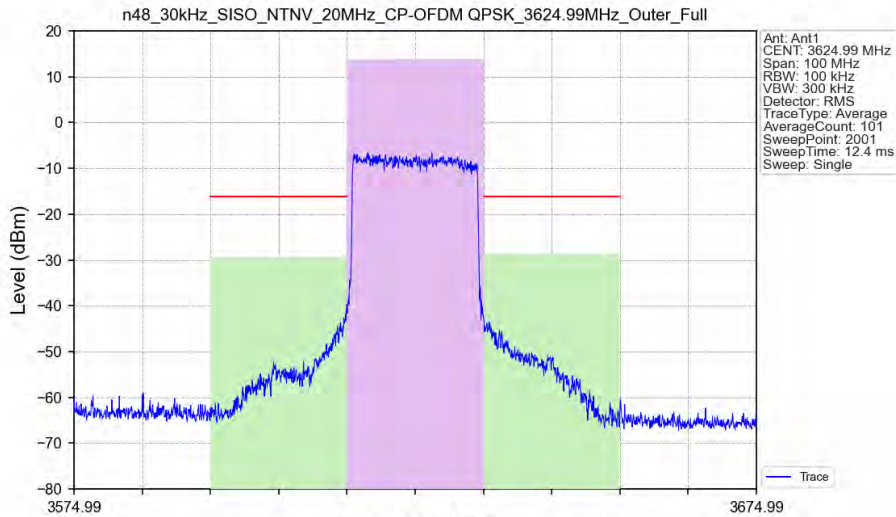
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n48_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_CP-OFDM QPSK_3690MHz_Outer_Full



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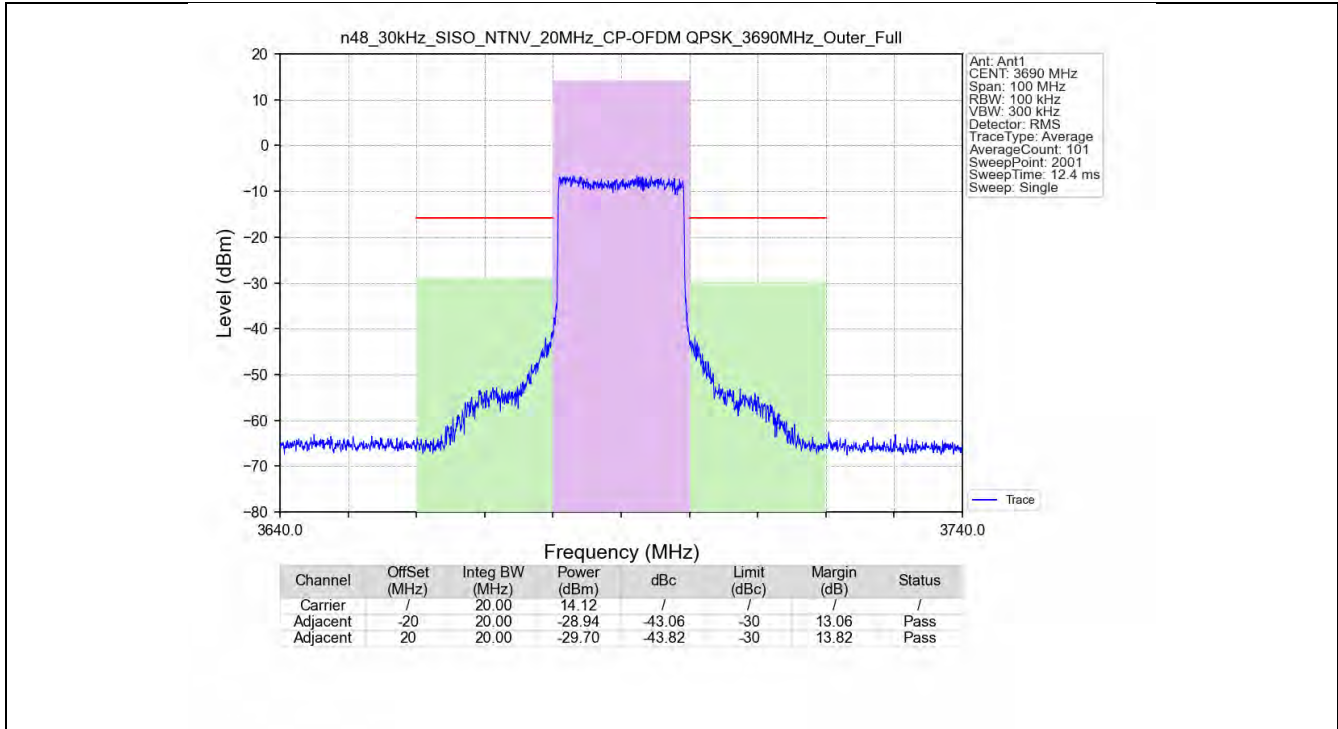


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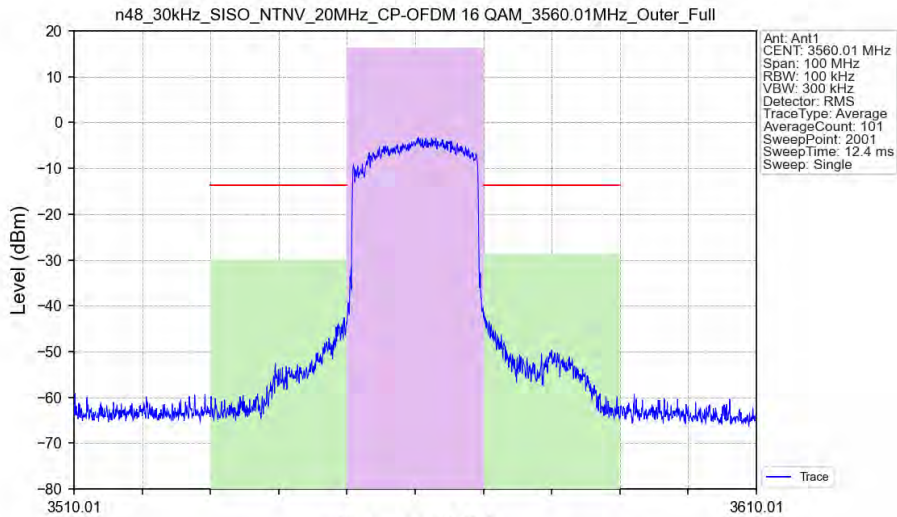
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n48_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_3560.01MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_CP-OFDM 16 QAM_3624.99MHz_Outer_Full



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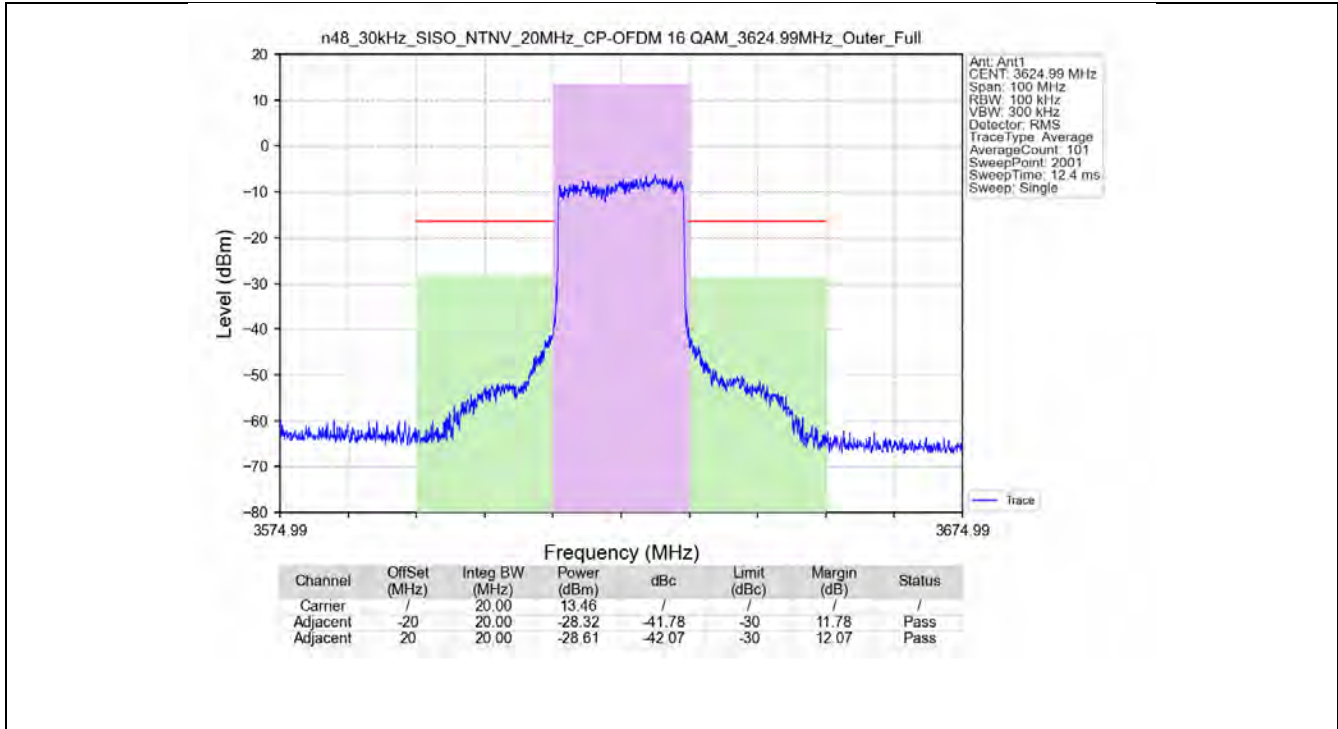


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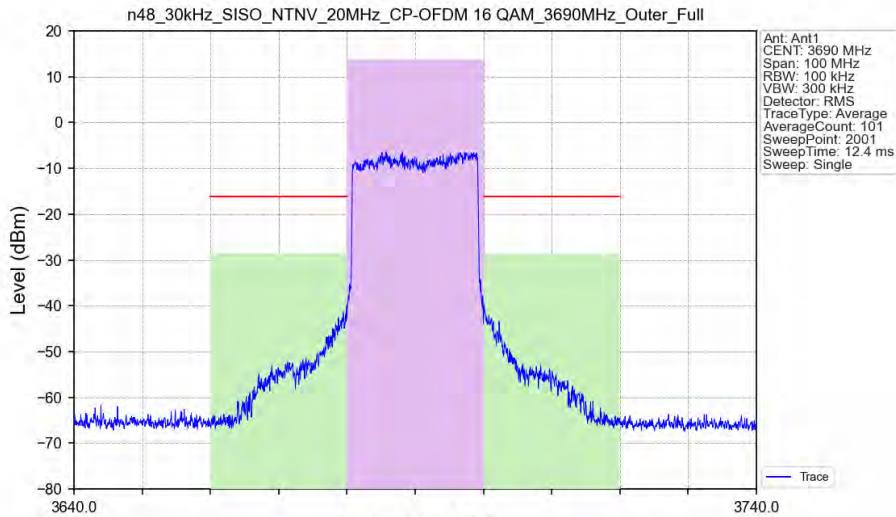
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Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	13.87	/	/	/	/
Adjacent	-20	20.00	-28.54	-42.41	-30	12.41	Pass
Adjacent	20	20.00	-28.66	-42.53	-30	12.53	Pass

n48_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_3560.01MHz_Outer_Full



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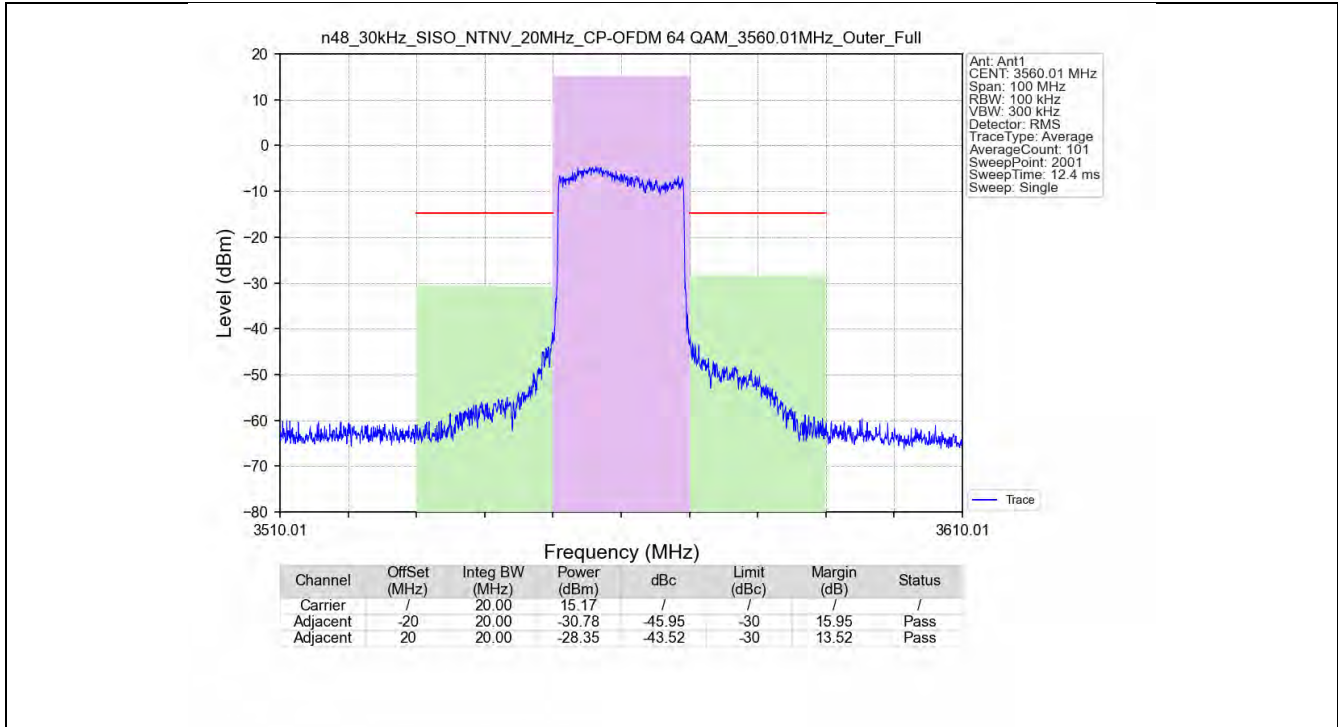


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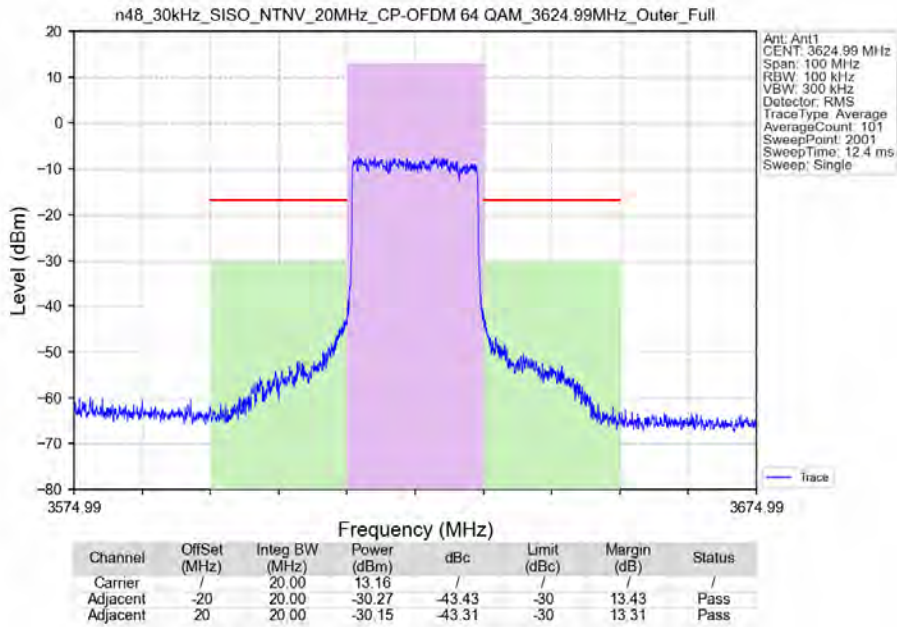
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n48_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_3624.99MHz_Outer_Full



n48_30kHz_SISO_NTNV_20MHz_CP-OFDM 64 QAM_3690MHz_Outer_Full



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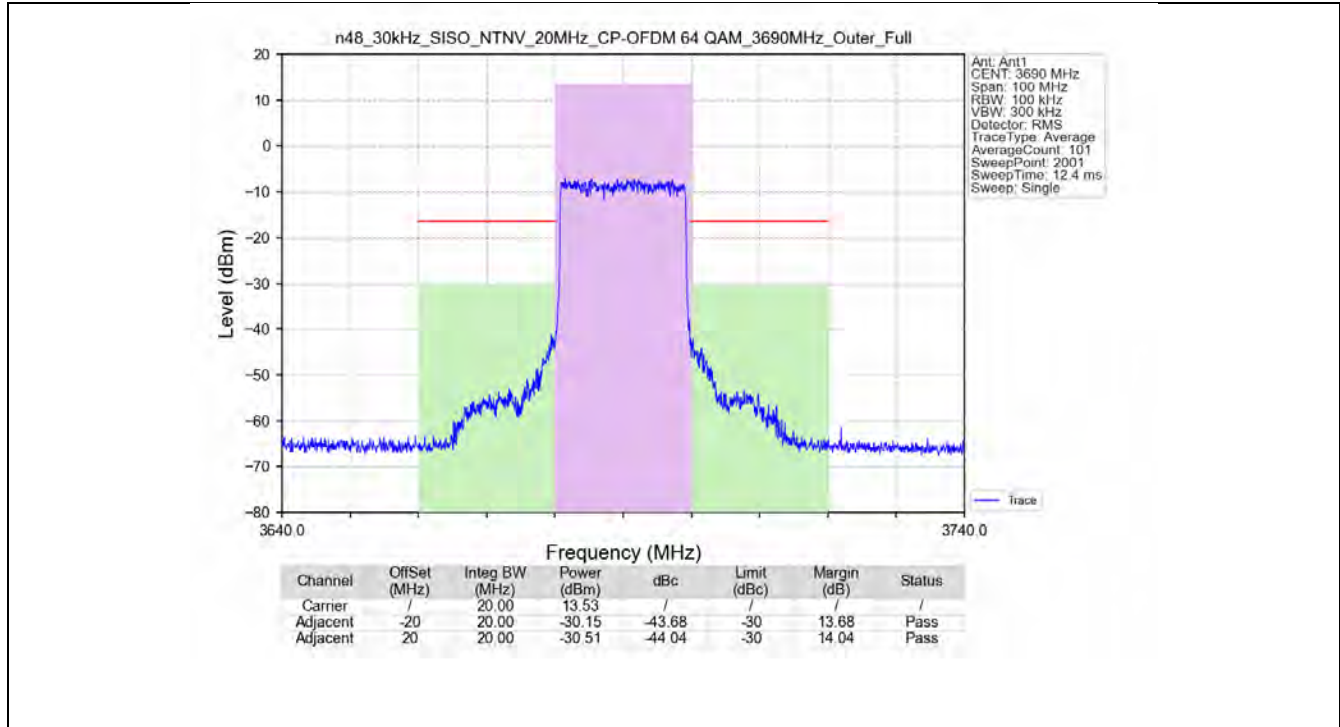


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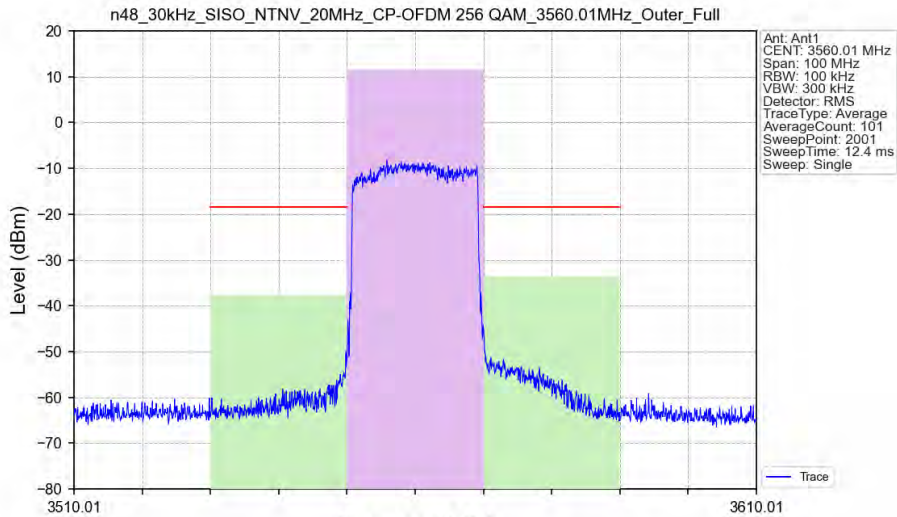
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n48_30kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_3560.01MHz_Outer_Full



Channel	OffSet (MHz)	Integ BW (MHz)	Power (dBm)	dBc	Limit (dBc)	Margin (dB)	Status
Carrier	/	20.00	11.61	/	/	/	/
Adjacent	-20	20.00	-37.69	-49.30	-30	19.30	Pass
Adjacent	20	20.00	-33.57	-45.18	-30	15.18	Pass

n48_30kHz_SISO_NTNV_20MHz_CP-OFDM 256 QAM_3624.99MHz_Outer_Full



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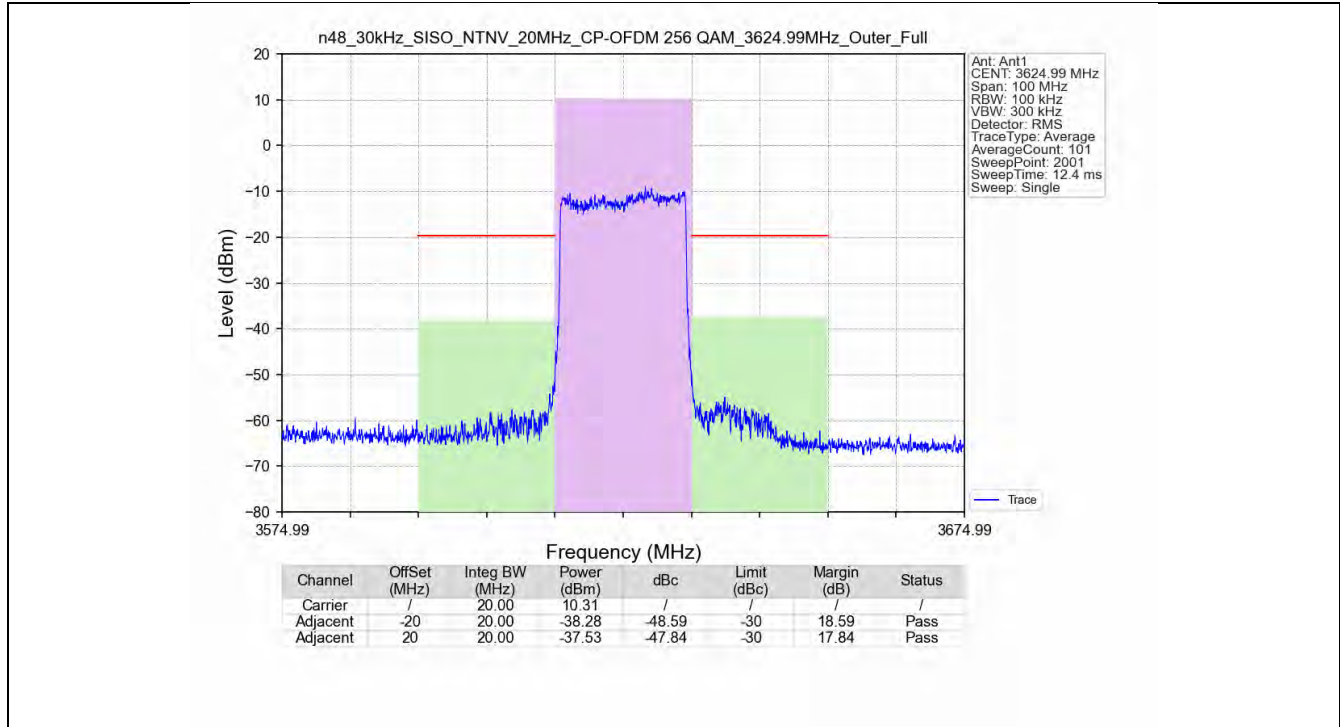


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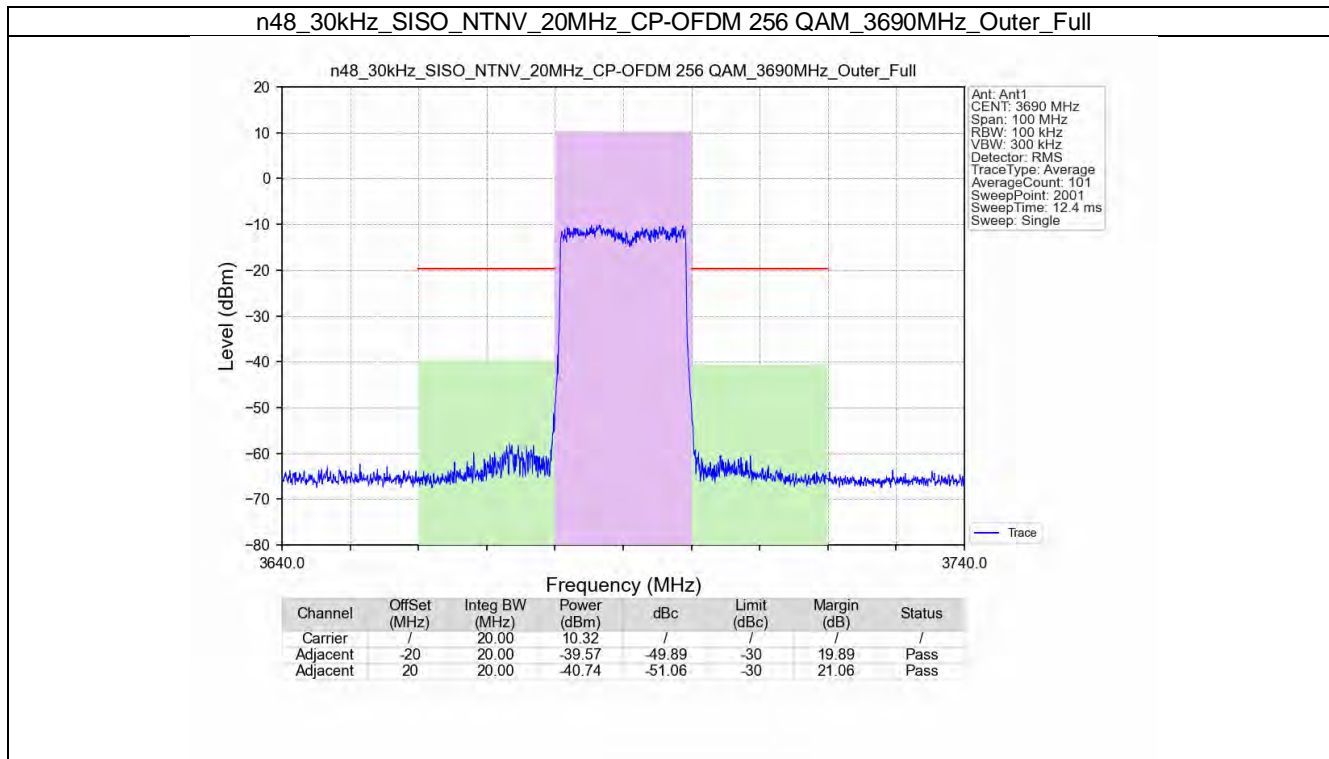
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6.3 30k_SISO_40MHz_NTNV

6.3.1 Test Result

5G NR n48 SCS=30kHz SISO 40MHz NNTV					
Modulation	Frequency (MHz)	RB Allocation	Adjacent Channel Leakage Ratio		Verdict
			Result	Limit	
DFT-s-OFDM PI/2 BPSK	3570	Outer_Full	Refer To Test Graph		Pass
	3624.99	Outer_Full	Refer To Test Graph		Pass
	3679.98	Outer_Full	Refer To Test Graph		Pass
DFT-s-OFDM QPSK	3570	Outer_Full	Refer To Test Graph		Pass
	3624.99	Outer_Full	Refer To Test Graph		Pass
	3679.98	Outer_Full	Refer To Test Graph		Pass
DFT-s-OFDM 16 QAM	3570	Outer_Full	Refer To Test Graph		Pass
	3624.99	Outer_Full	Refer To Test Graph		Pass
	3679.98	Outer_Full	Refer To Test Graph		Pass
DFT-s-OFDM 64 QAM	3570	Outer_Full	Refer To Test Graph		Pass
	3624.99	Outer_Full	Refer To Test Graph		Pass
	3679.98	Outer_Full	Refer To Test Graph		Pass
DFT-s-OFDM 256 QAM	3570	Outer_Full	Refer To Test Graph		Pass
	3624.99	Outer_Full	Refer To Test Graph		Pass
	3679.98	Outer_Full	Refer To Test Graph		Pass
CP-OFDM QPSK	3570	Outer_Full	Refer To Test Graph		Pass
	3624.99	Outer_Full	Refer To Test Graph		Pass
	3679.98	Outer_Full	Refer To Test Graph		Pass
CP-OFDM 16 QAM	3570	Outer_Full	Refer To Test Graph		Pass
	3624.99	Outer_Full	Refer To Test Graph		Pass
	3679.98	Outer_Full	Refer To Test Graph		Pass
CP-OFDM 64 QAM	3570	Outer_Full	Refer To Test Graph		Pass
	3624.99	Outer_Full	Refer To Test Graph		Pass
	3679.98	Outer_Full	Refer To Test Graph		Pass
CP-OFDM 256 QAM	3570	Outer_Full	Refer To Test Graph		Pass
	3624.99	Outer_Full	Refer To Test Graph		Pass
	3679.98	Outer_Full	Refer To Test Graph		Pass



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