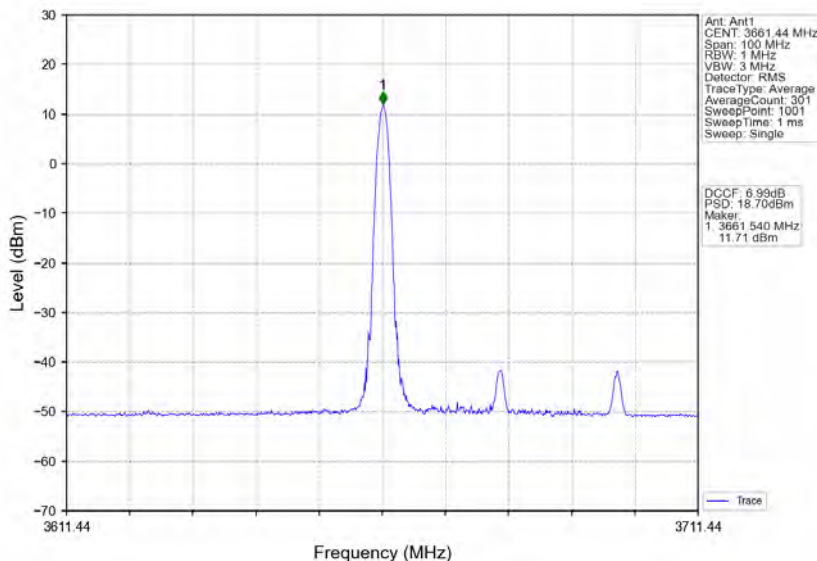
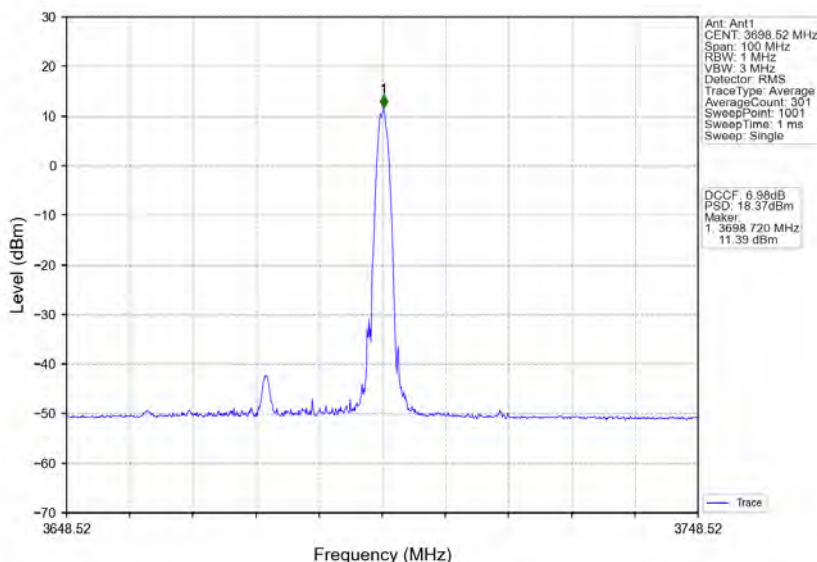


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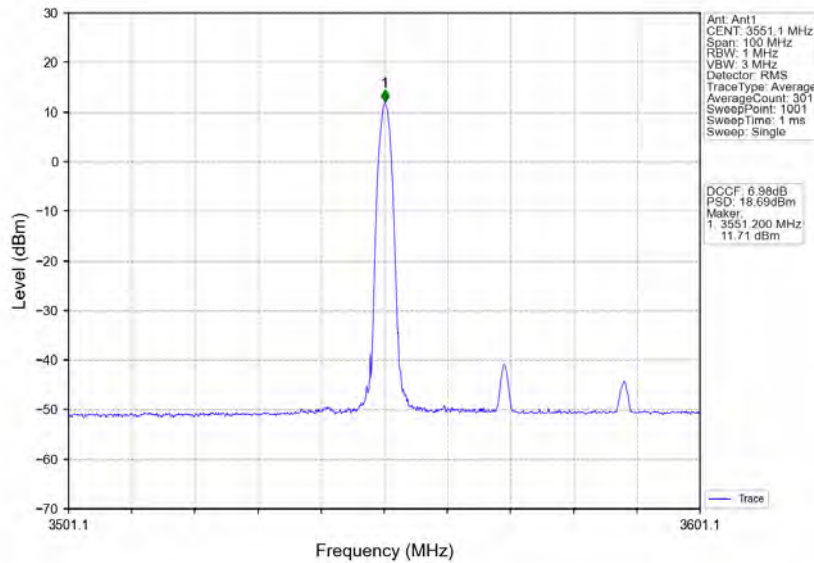
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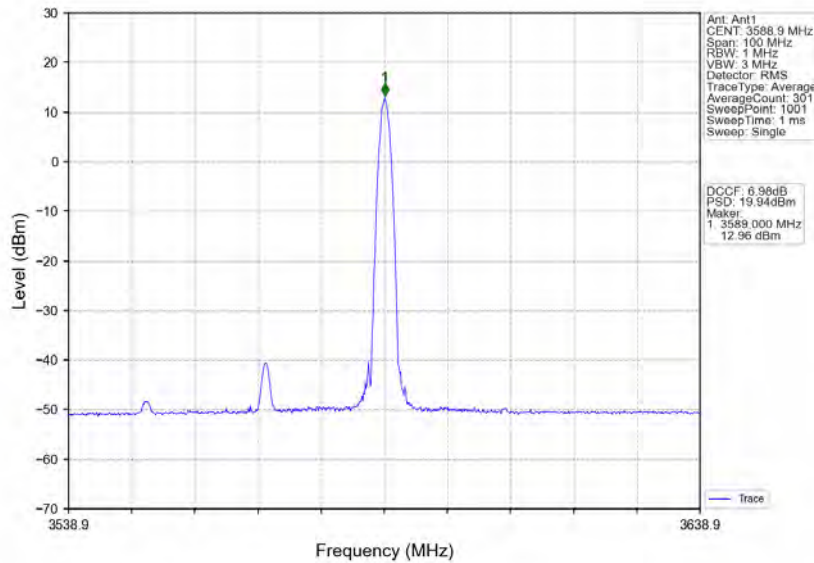
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n78d_30kHz_MIMO_NTNV_40MHz_CP-OFDM_16 QAM_3570MHz_Edge_1RB_Left



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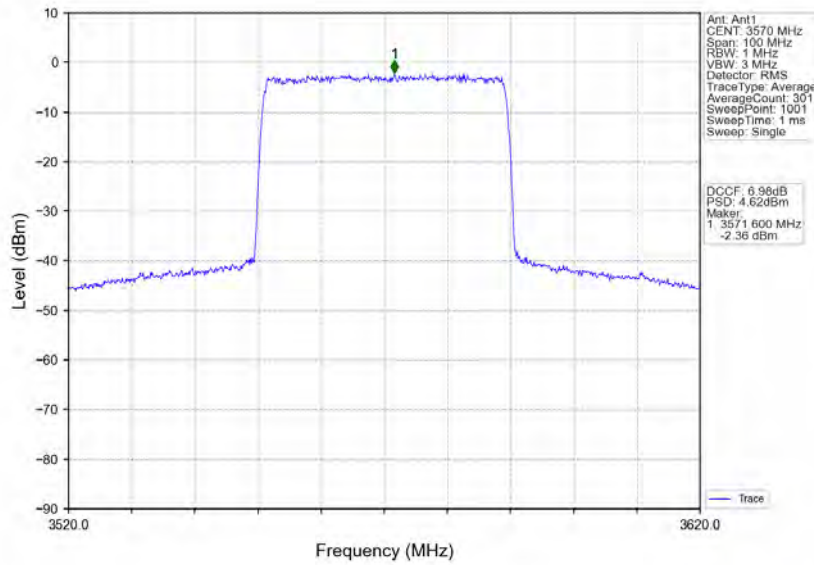
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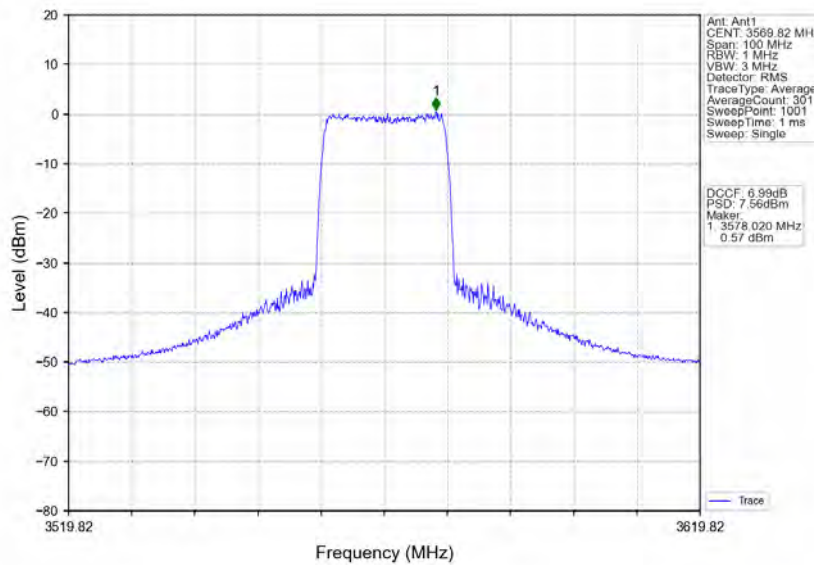
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n78d_30kHz_MIMO_NTNV_40MHz_CP-OFDM 16 QAM_3570MHz_Outer_Full



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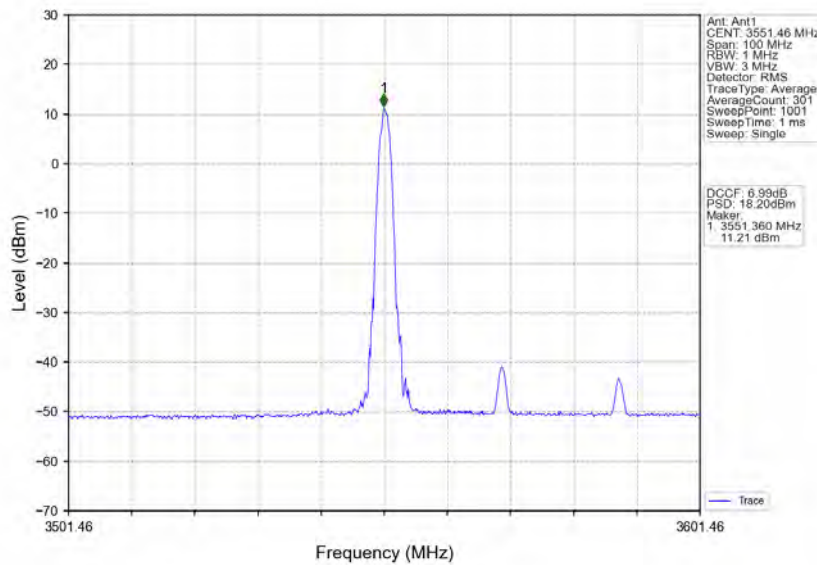
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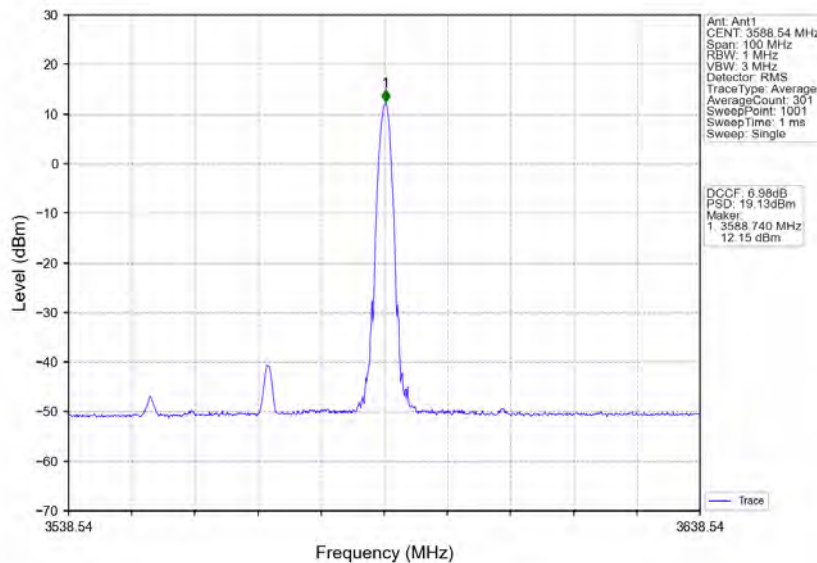
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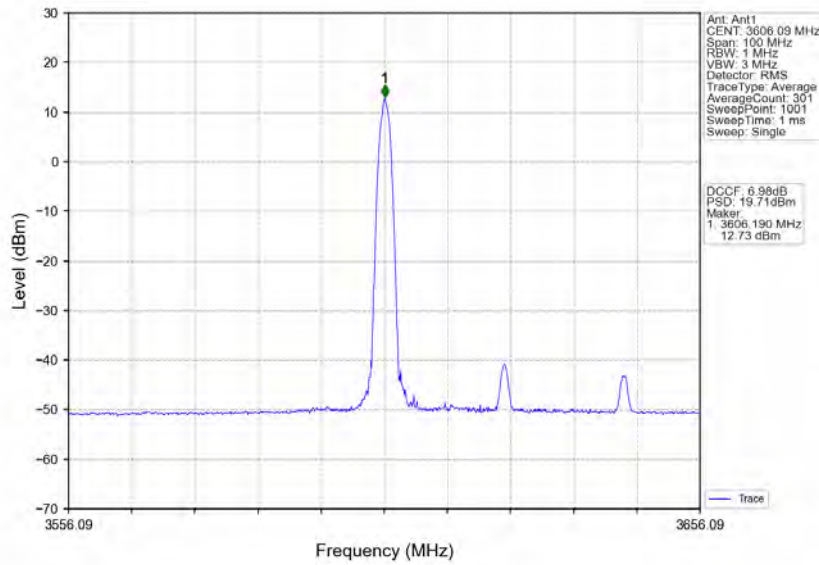
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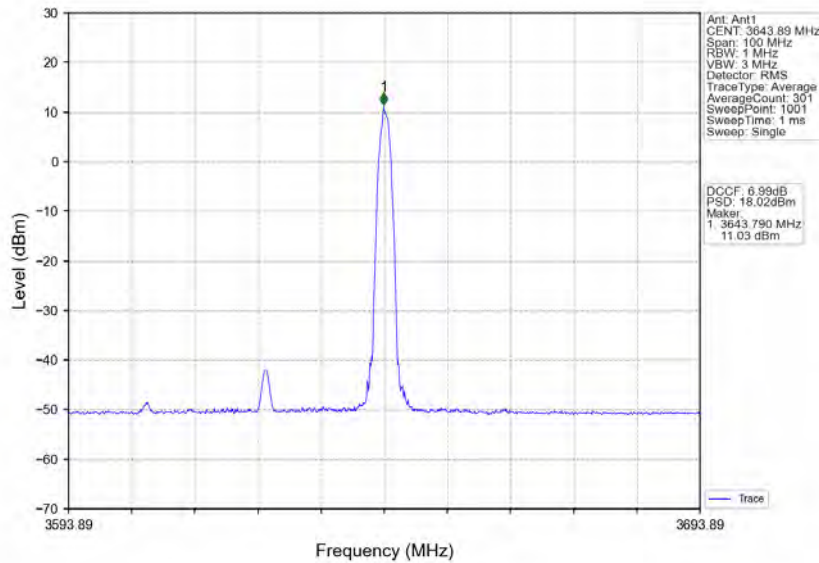
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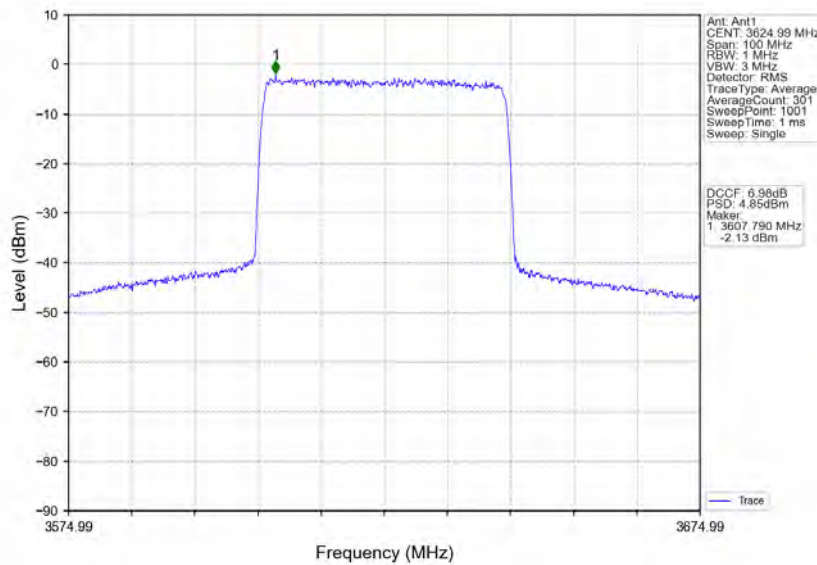
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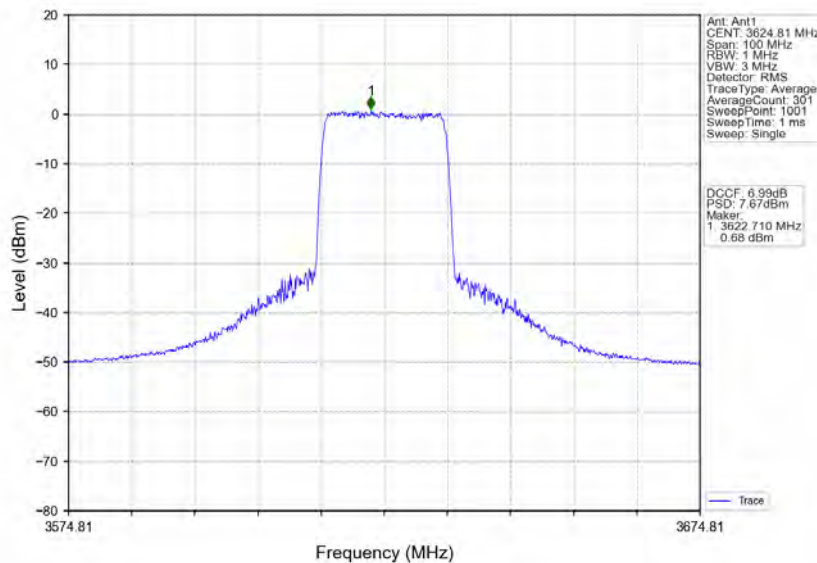
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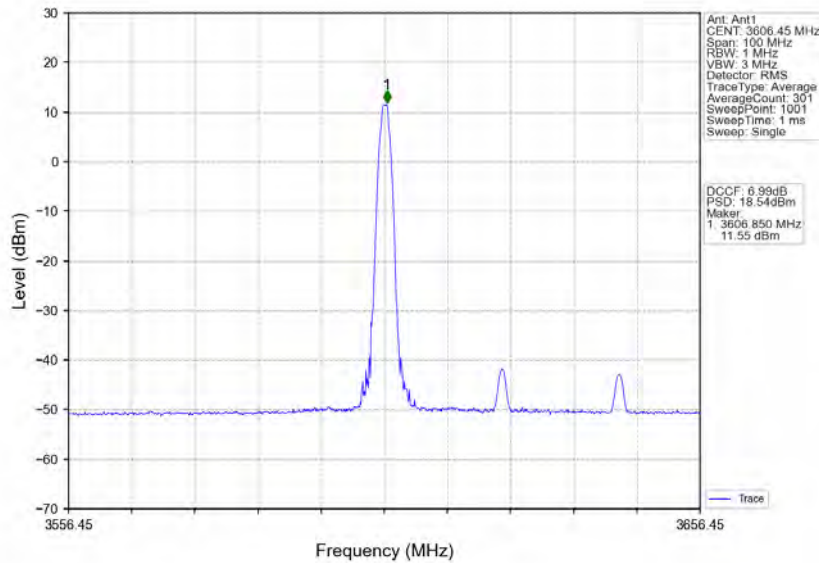
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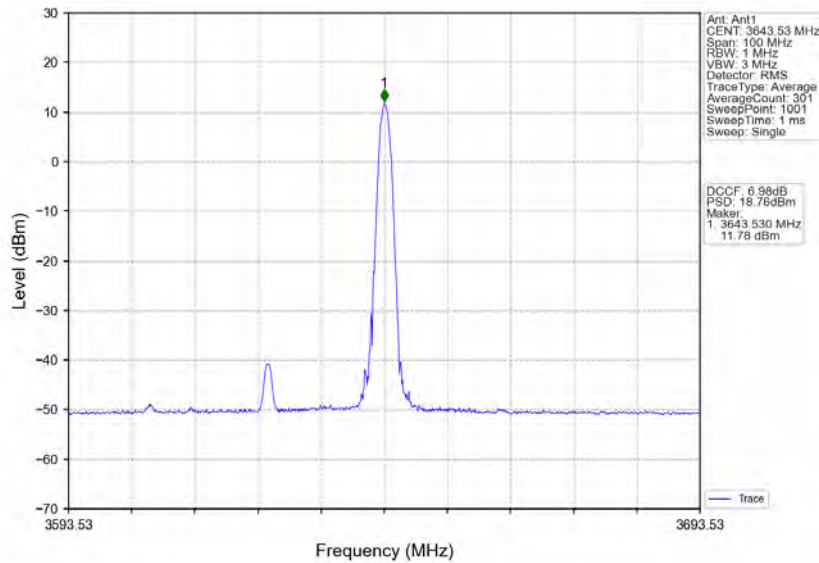
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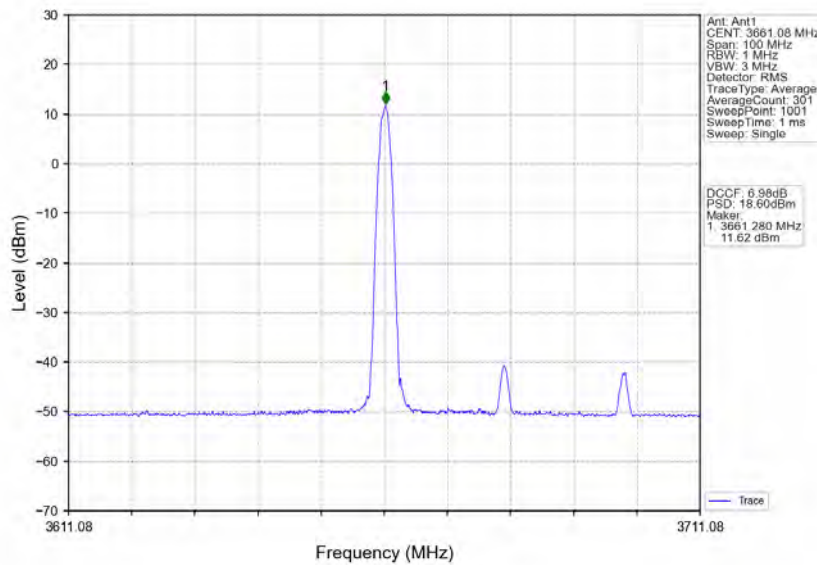
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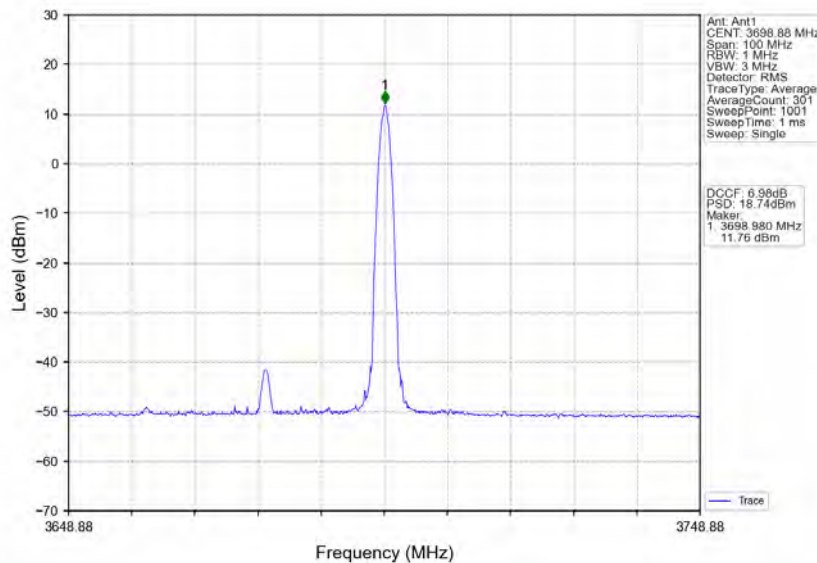
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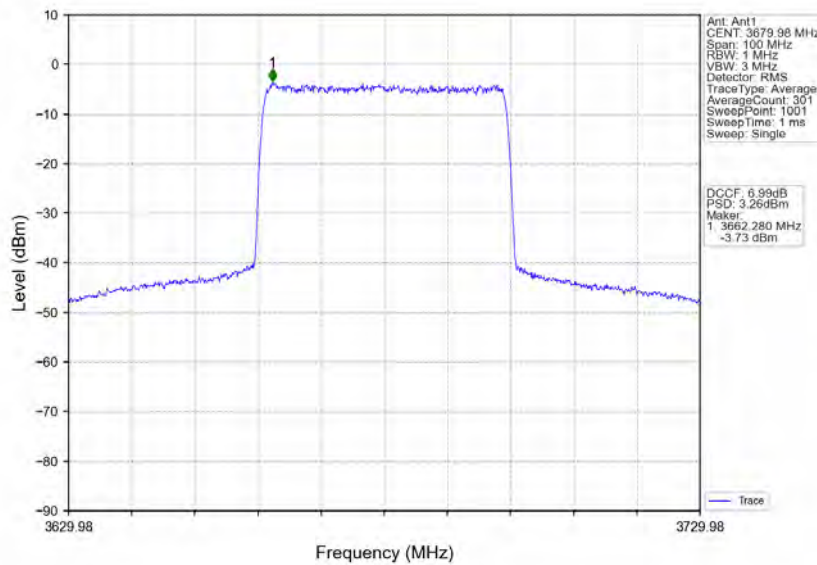
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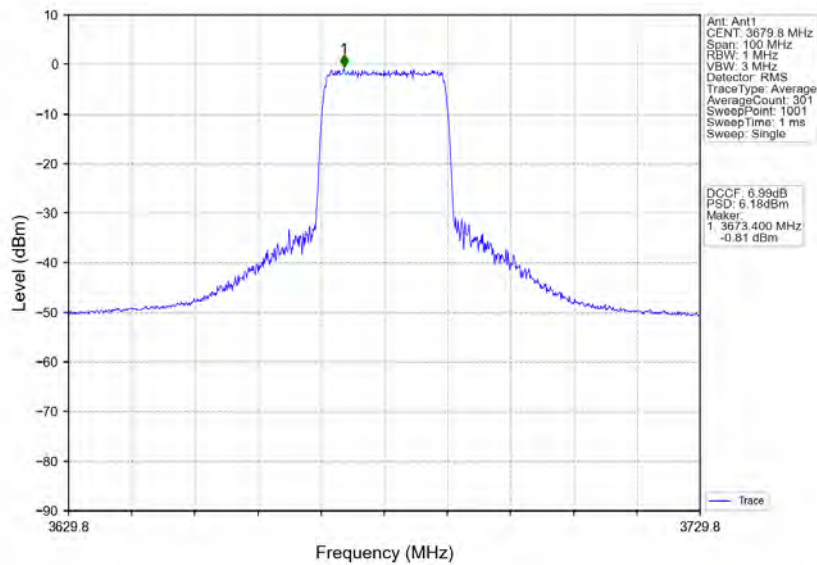
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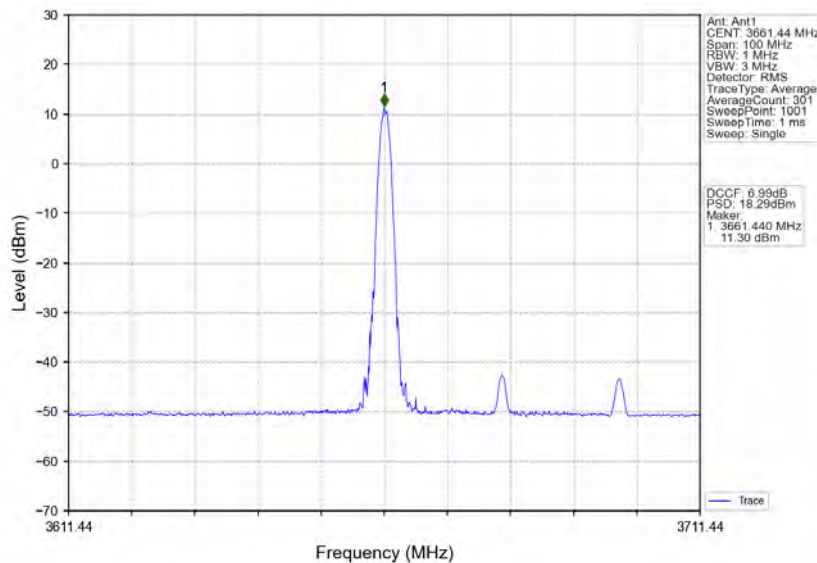
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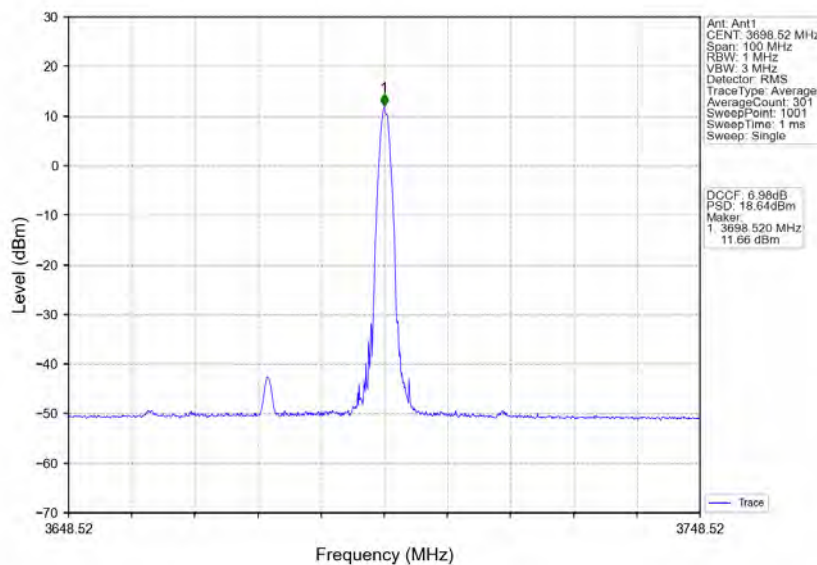
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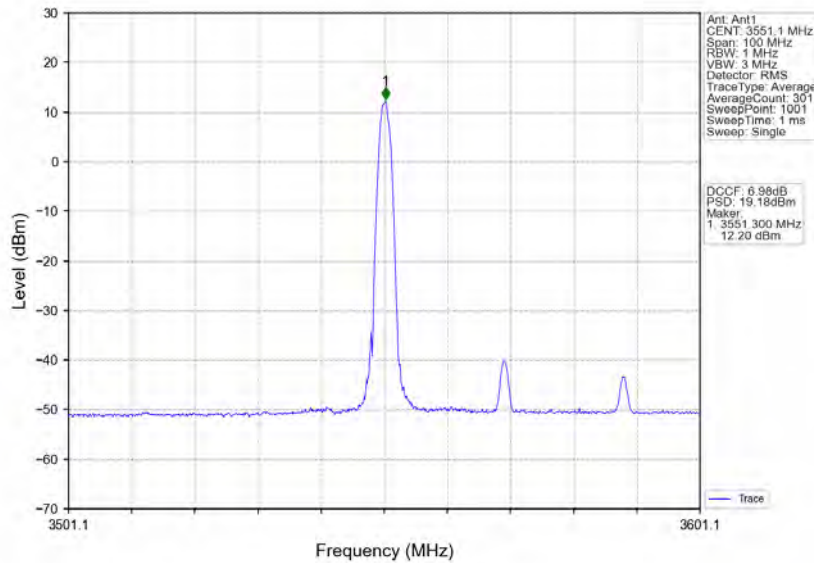


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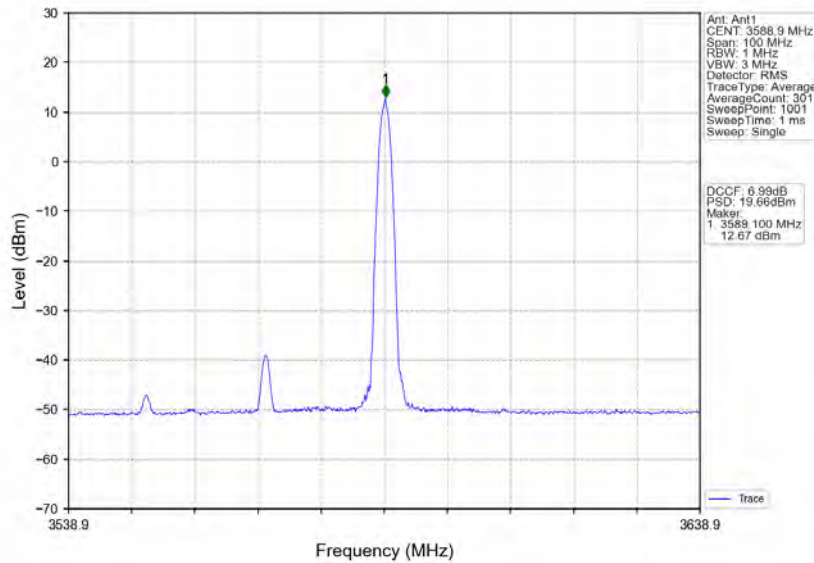
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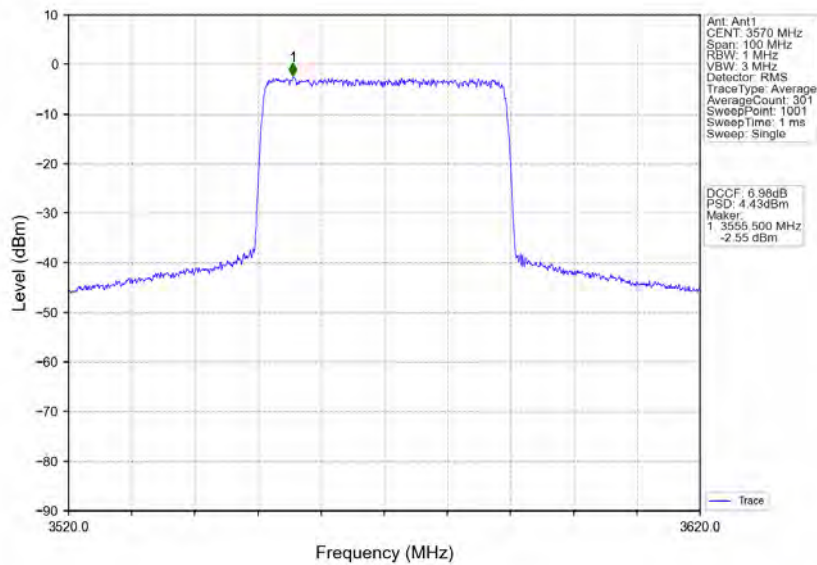
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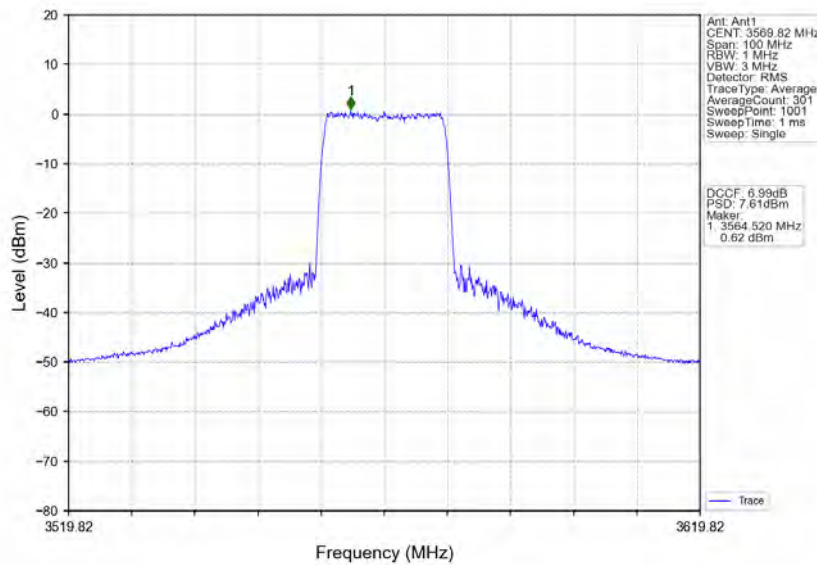
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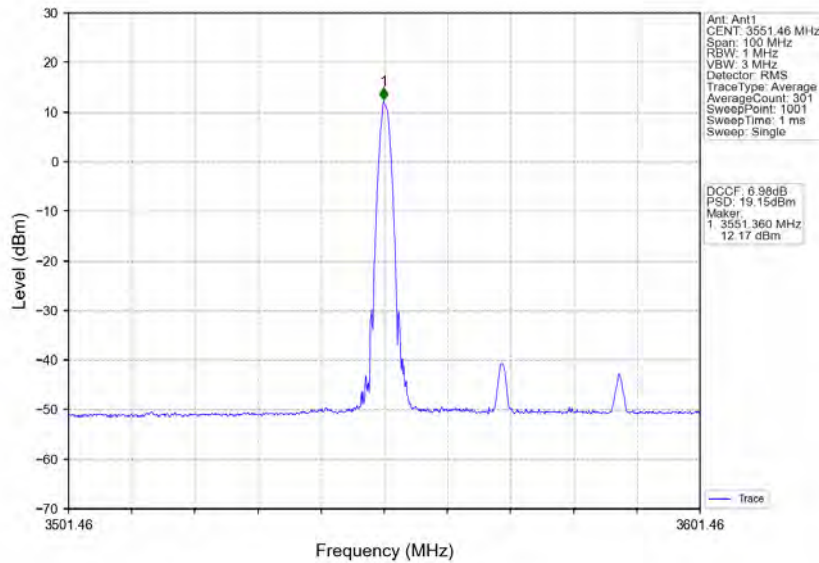
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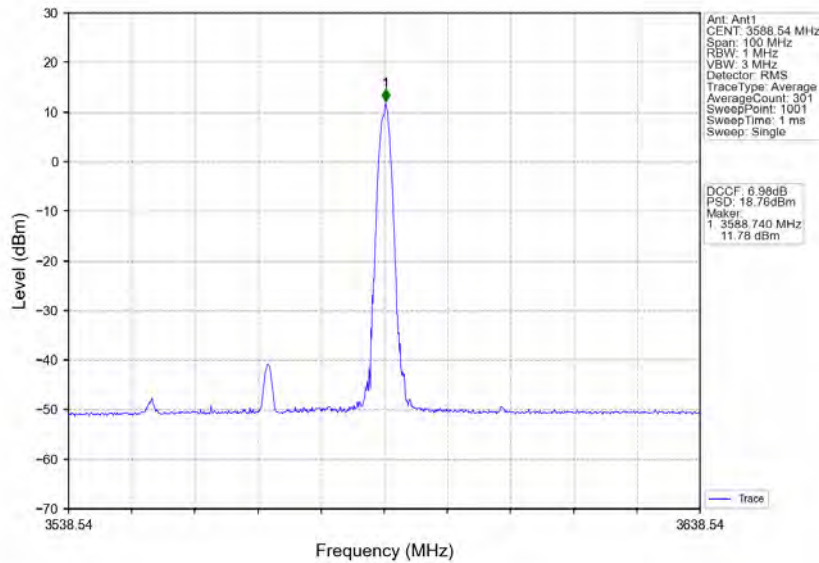
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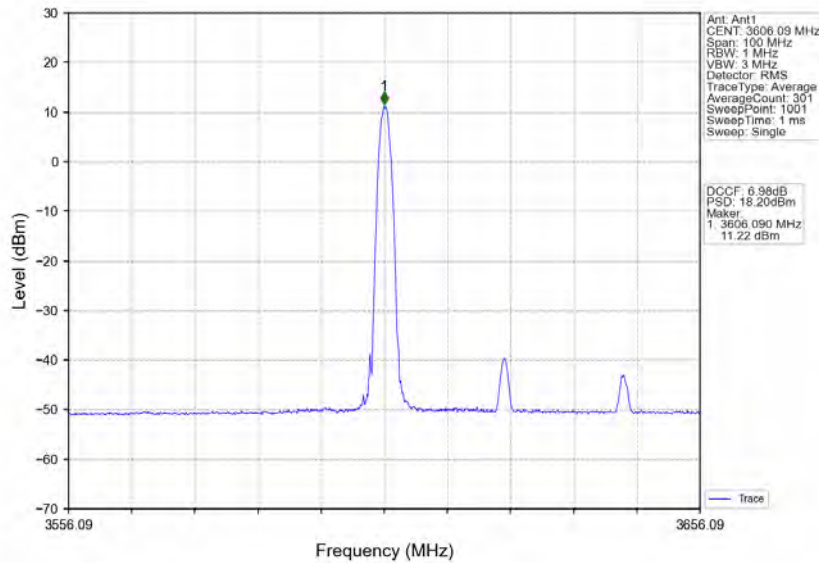
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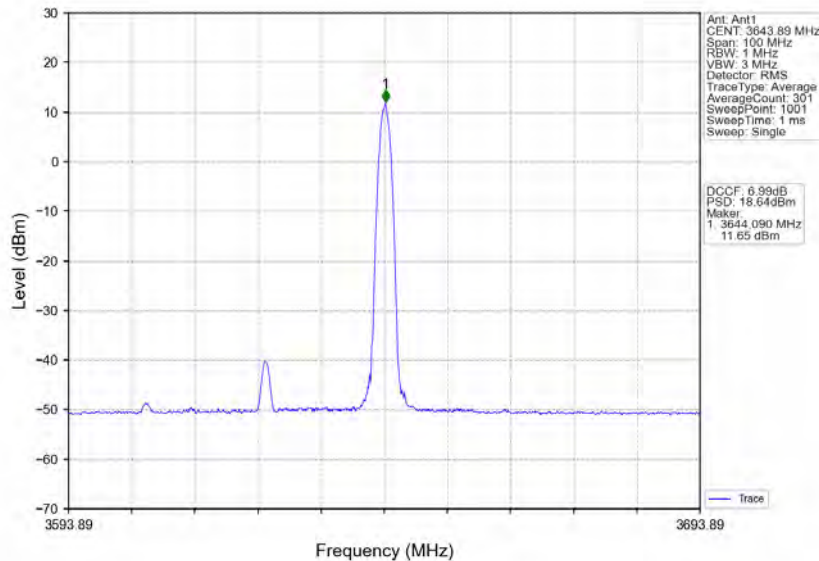
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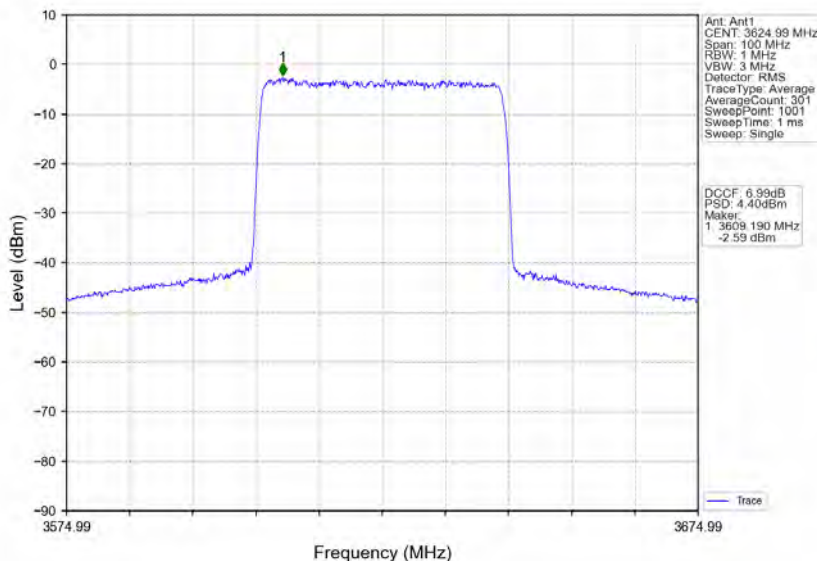
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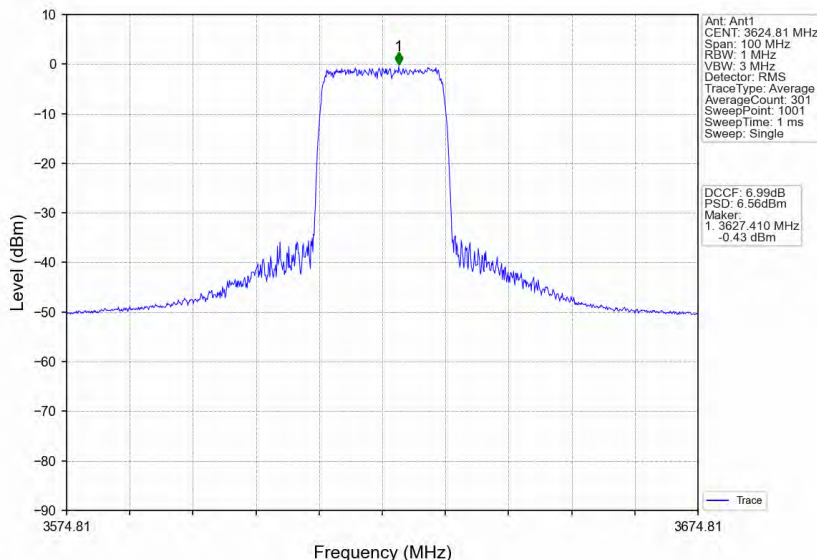
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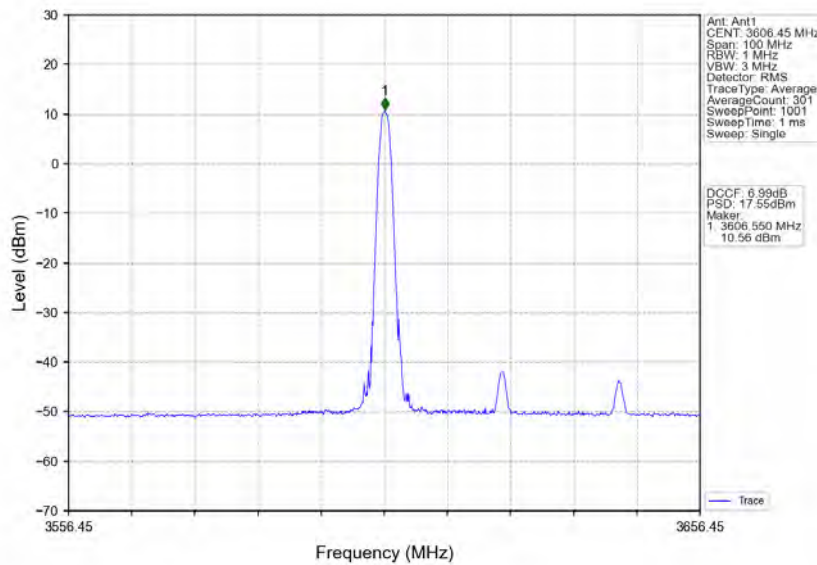


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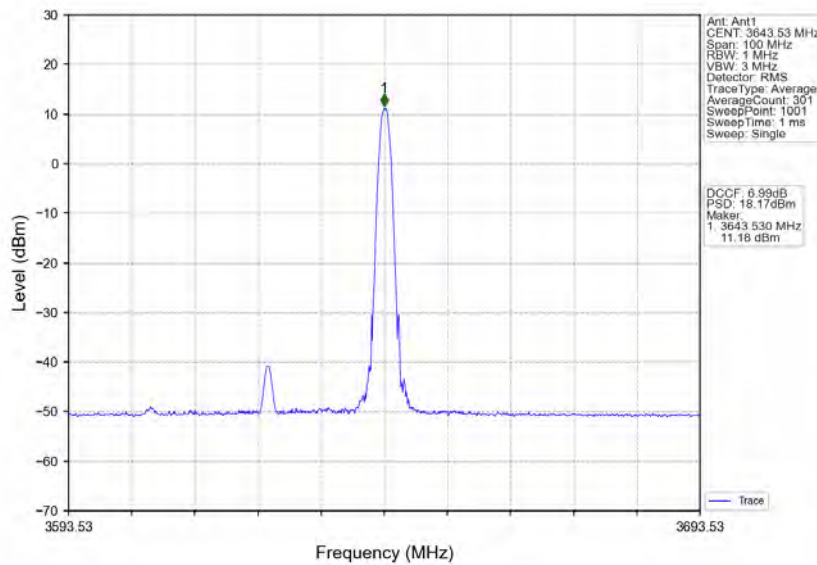
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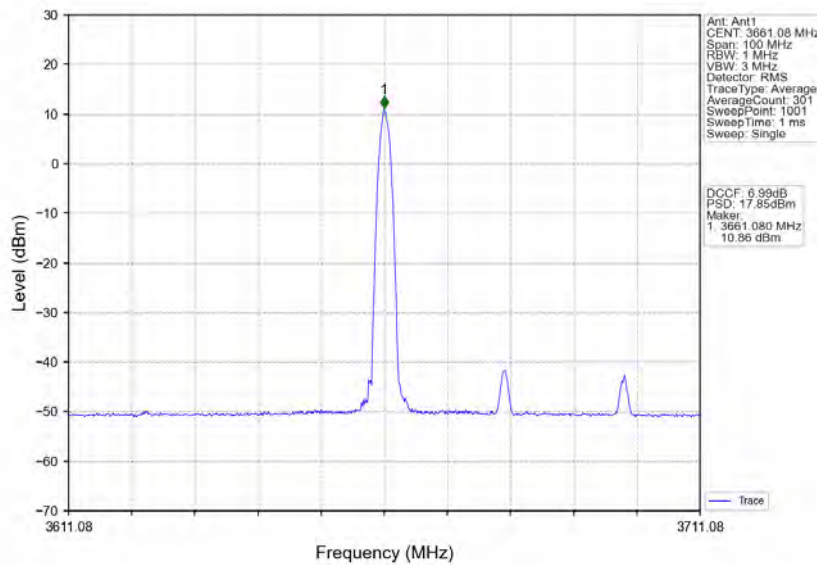
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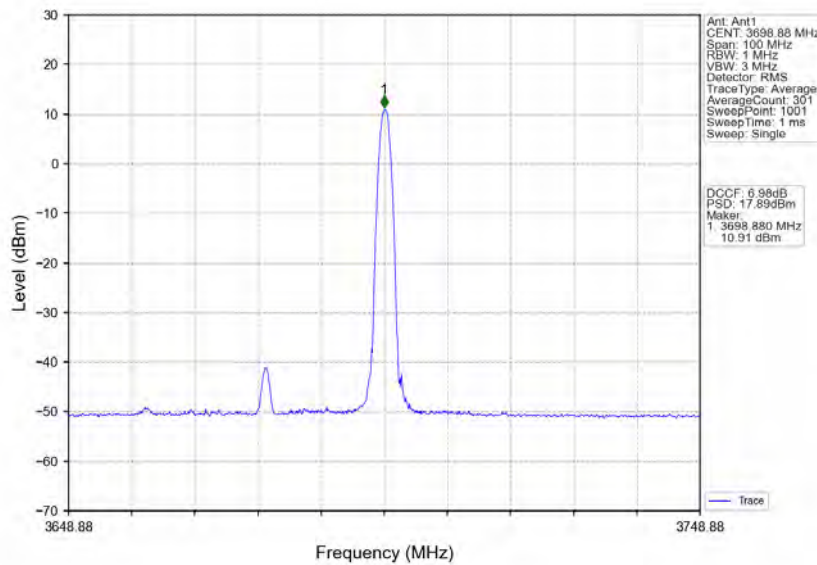
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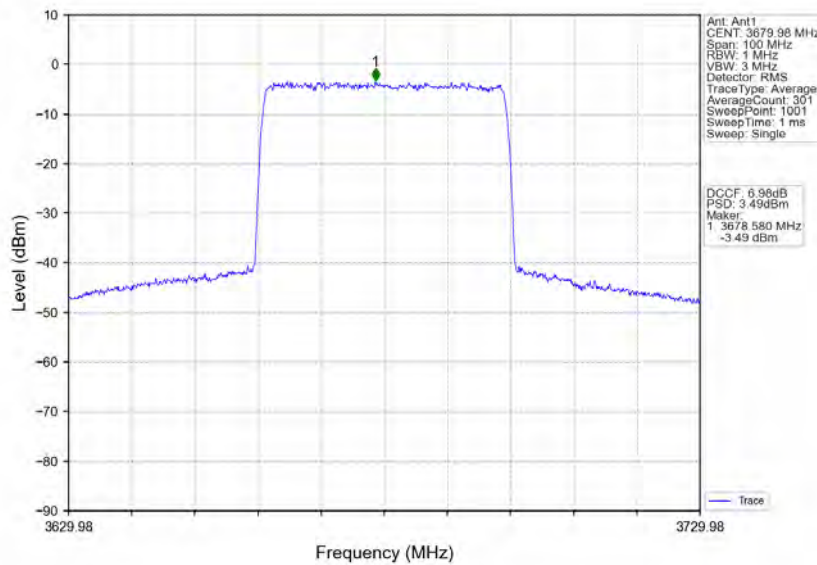
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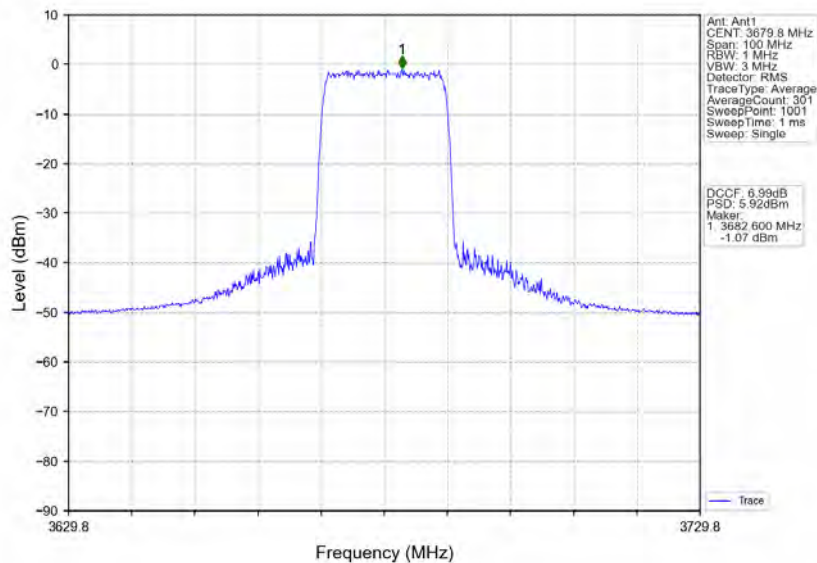
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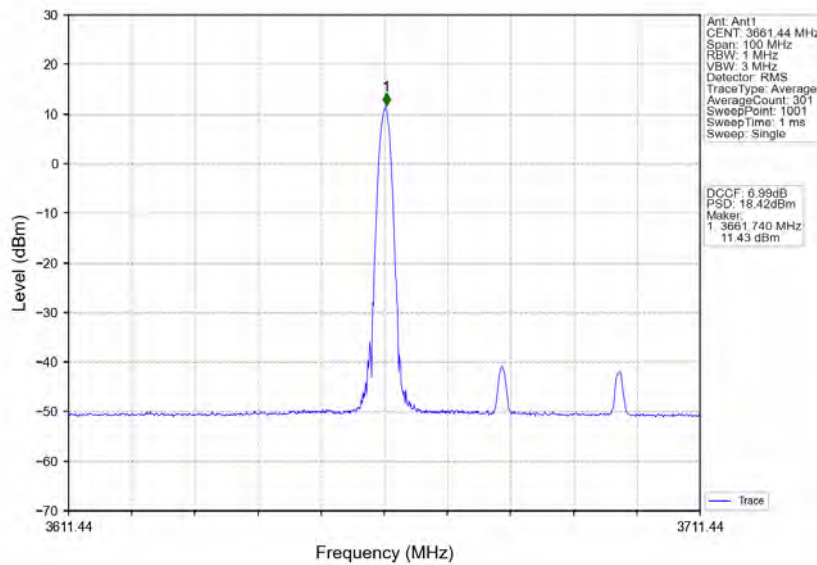
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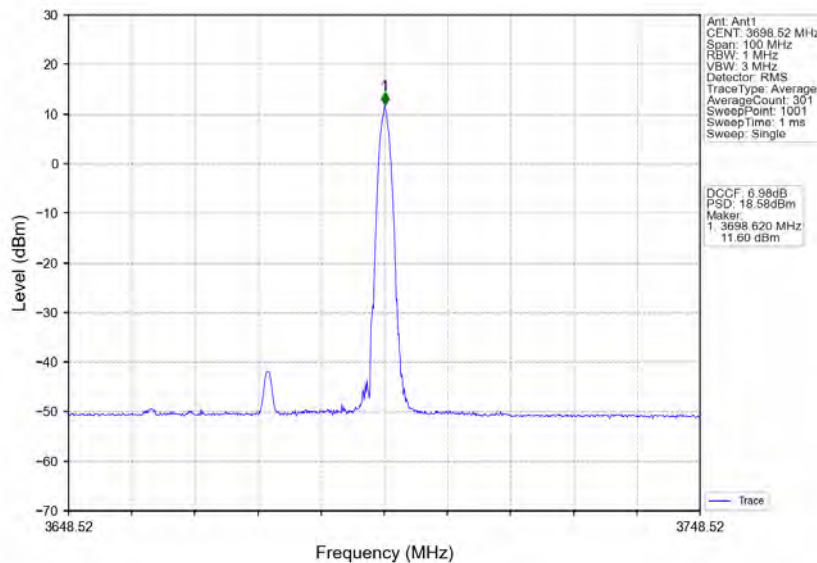
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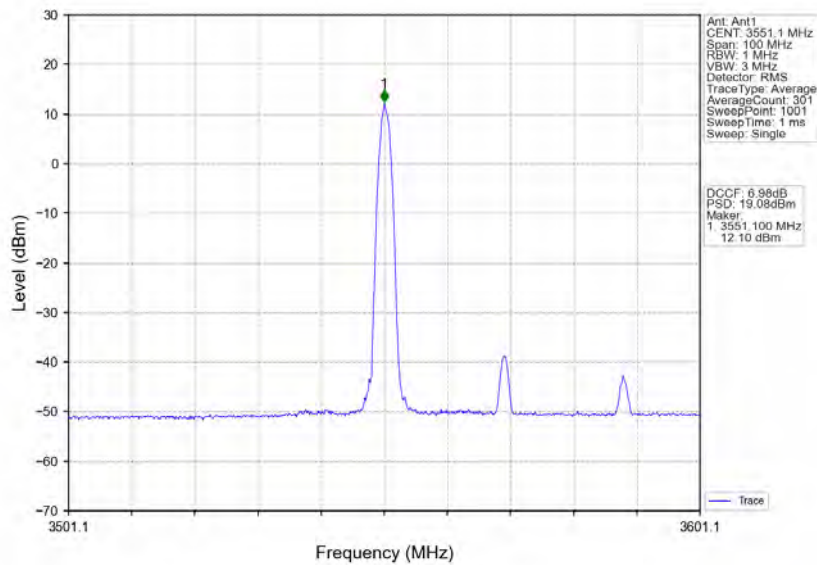
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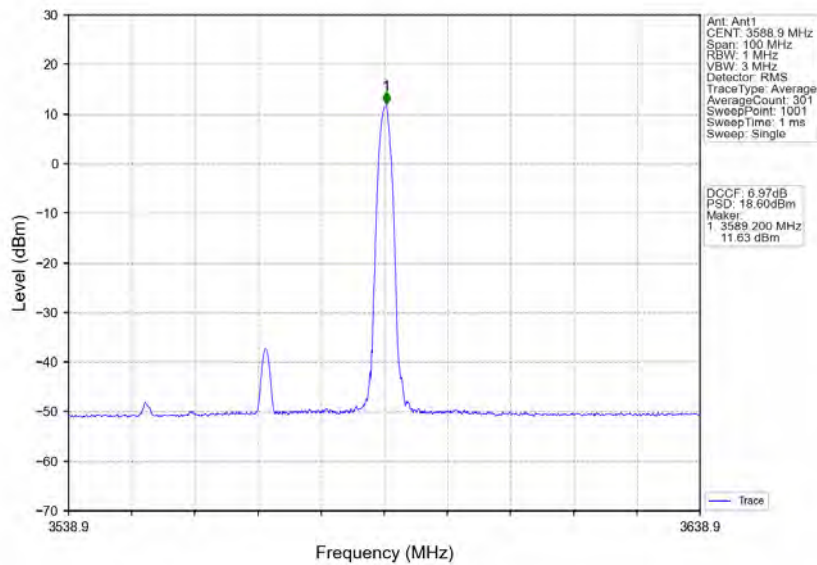
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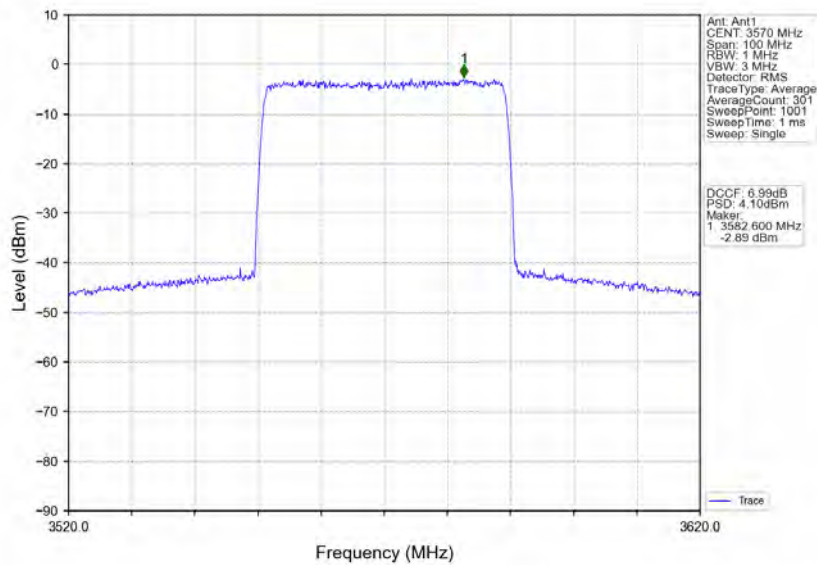
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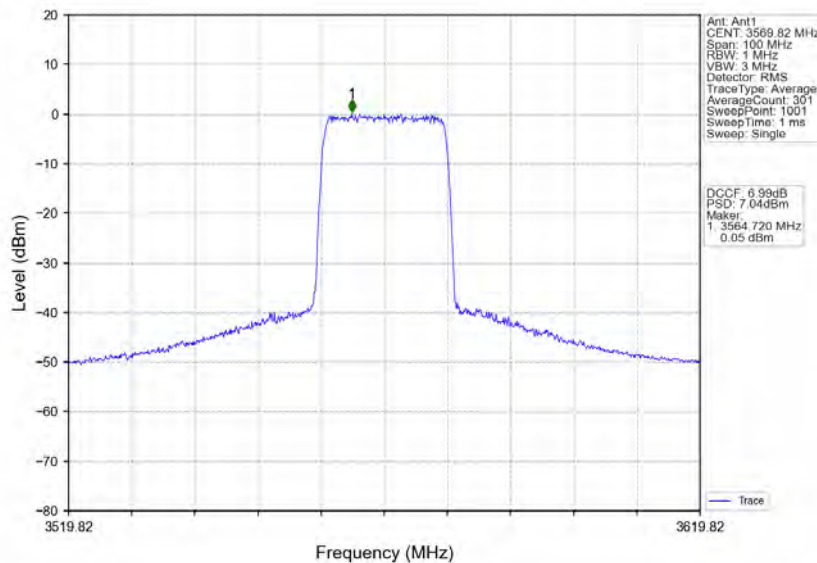
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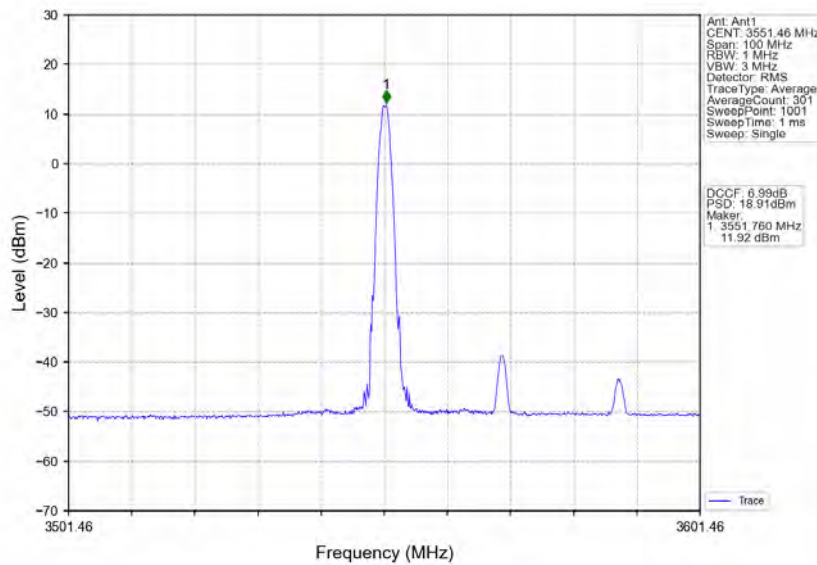
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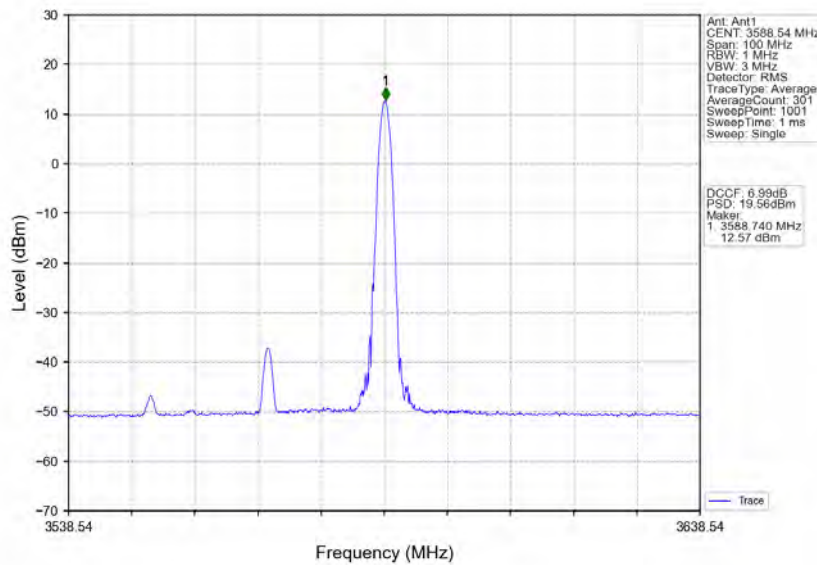
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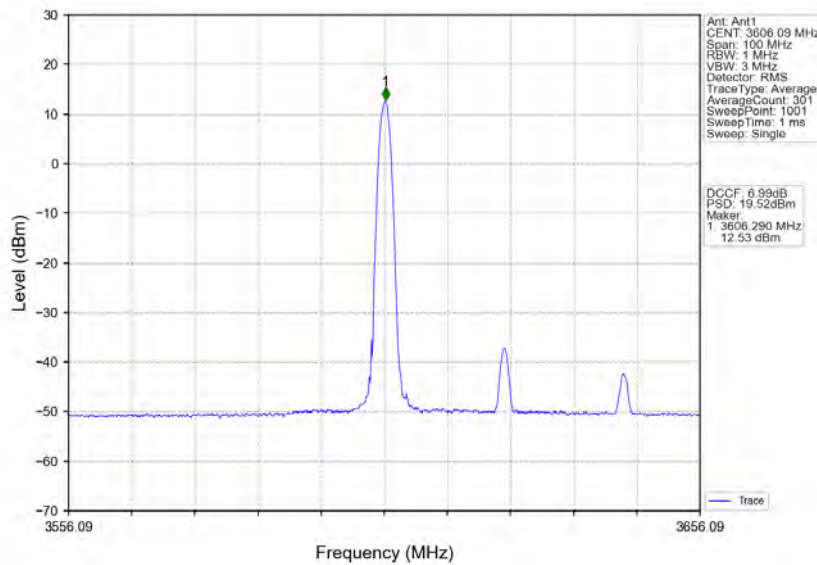
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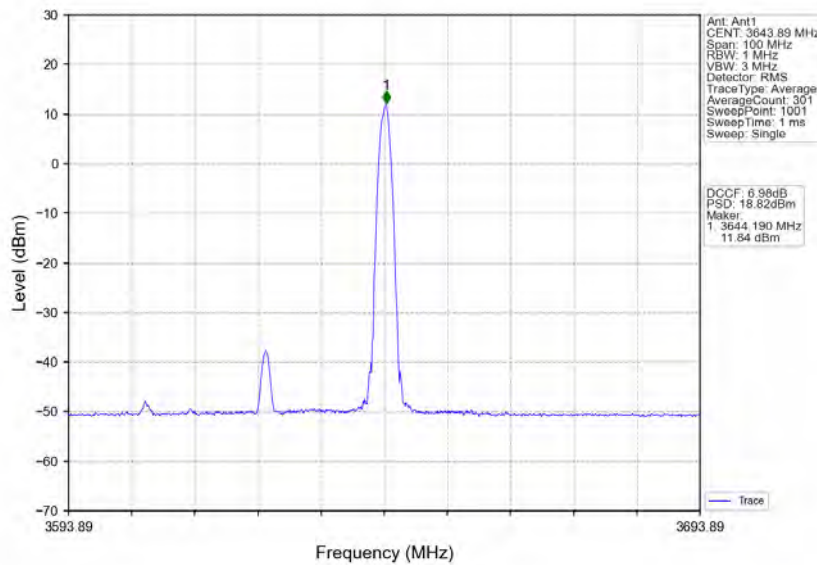
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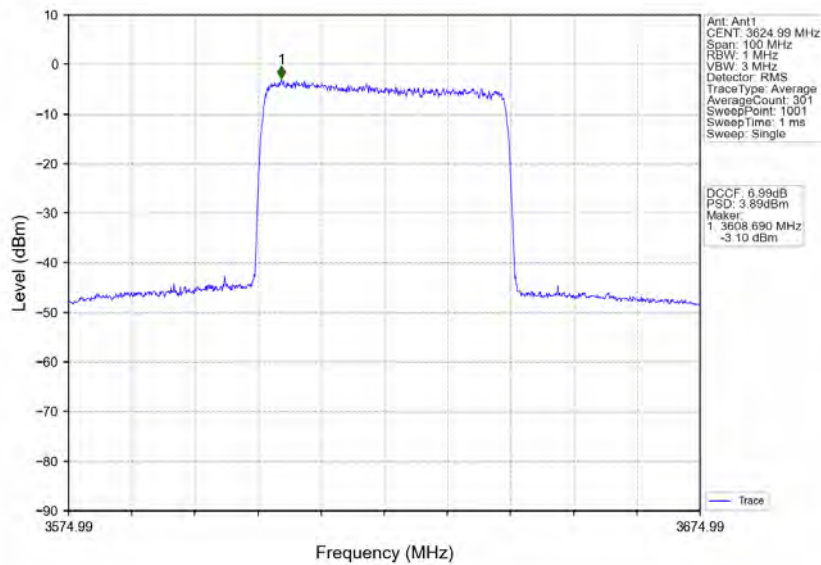
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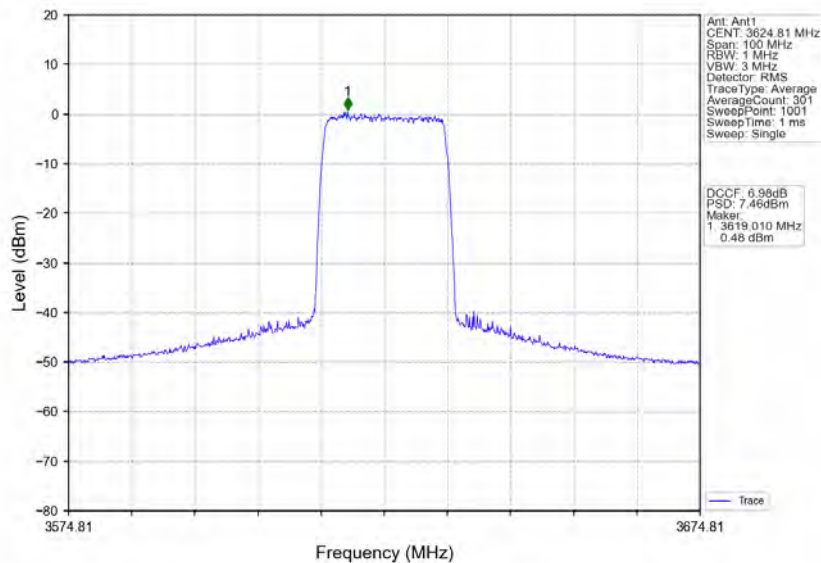
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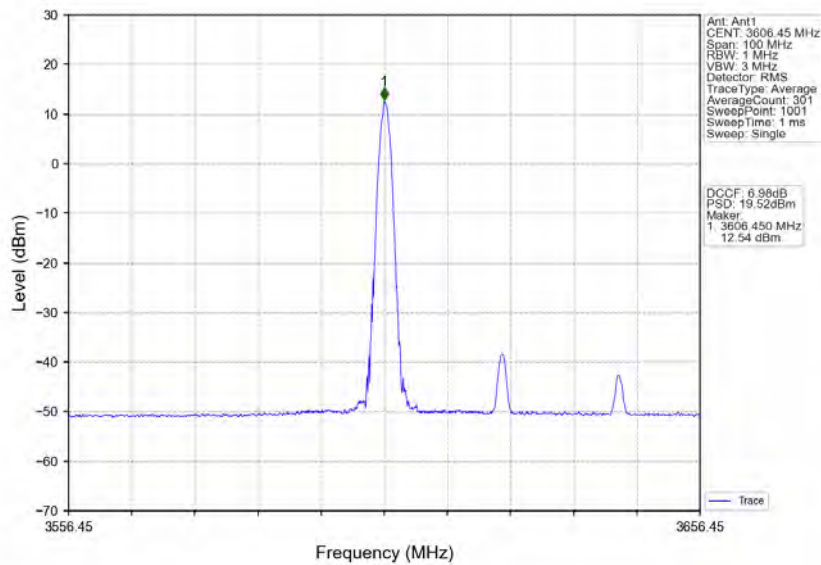
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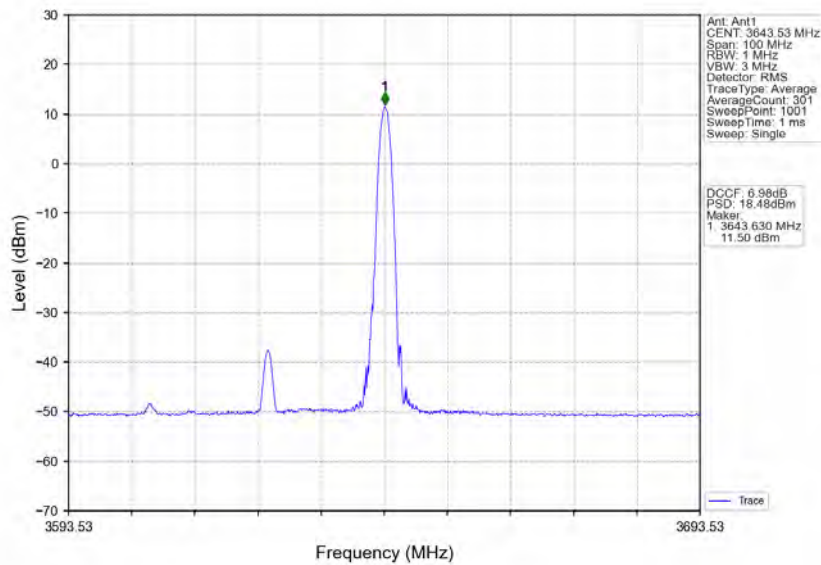
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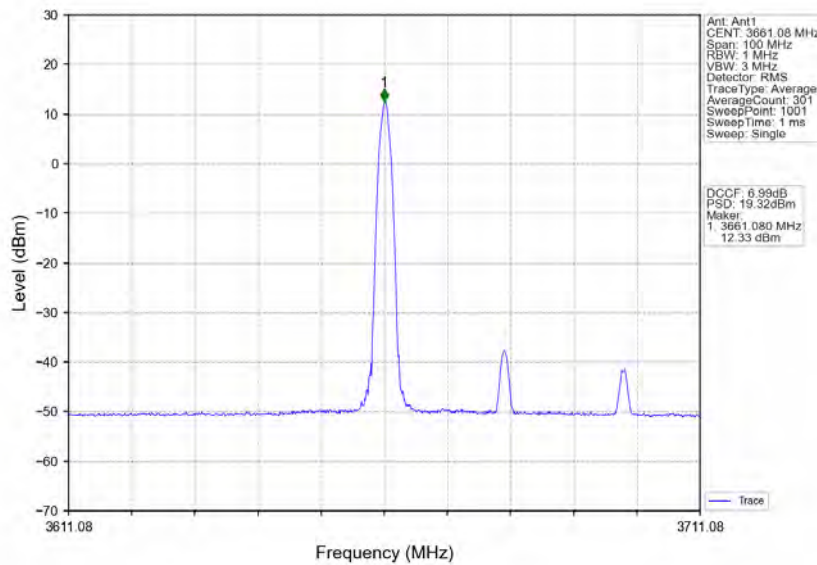
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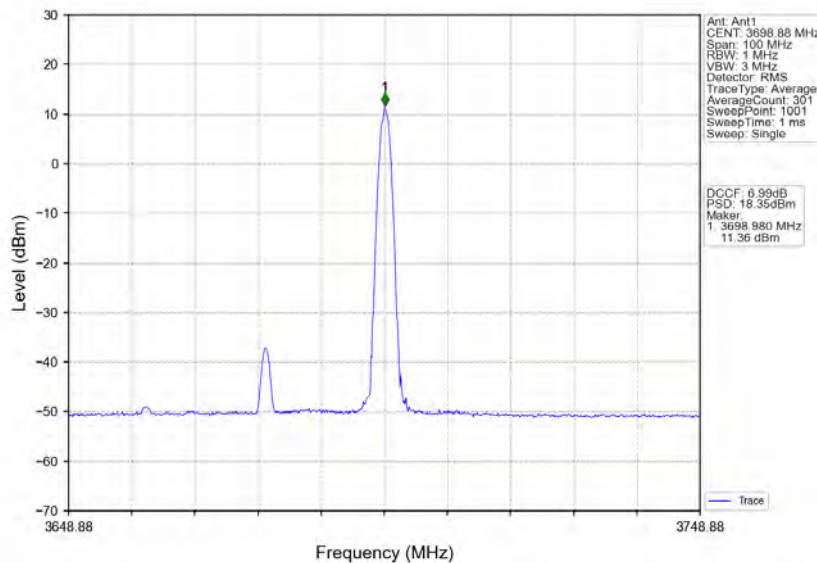
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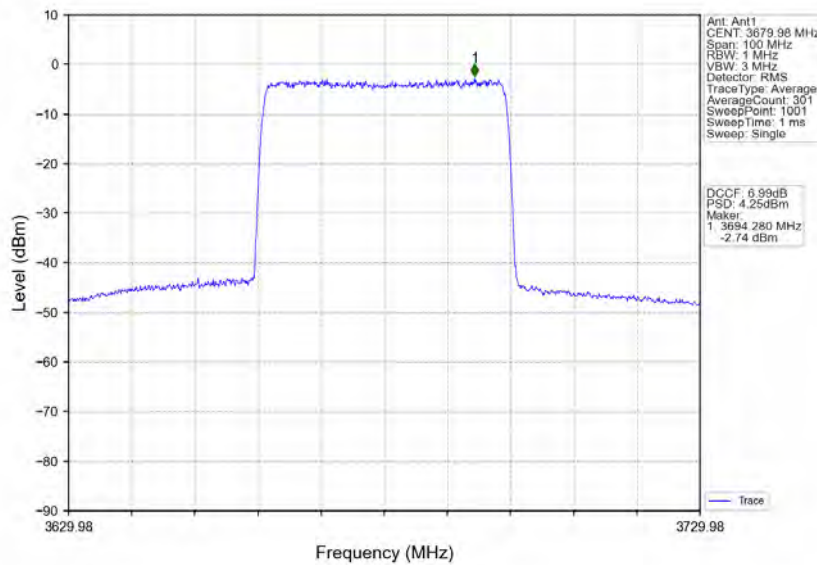
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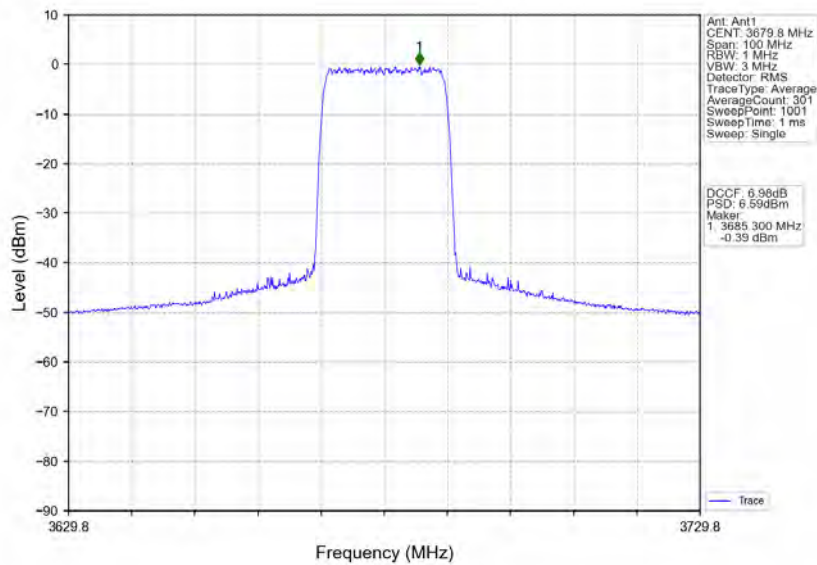
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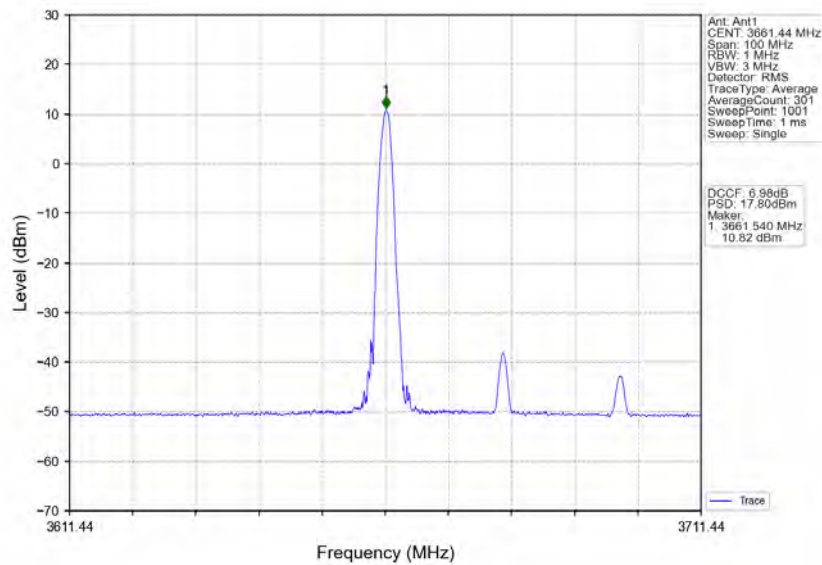
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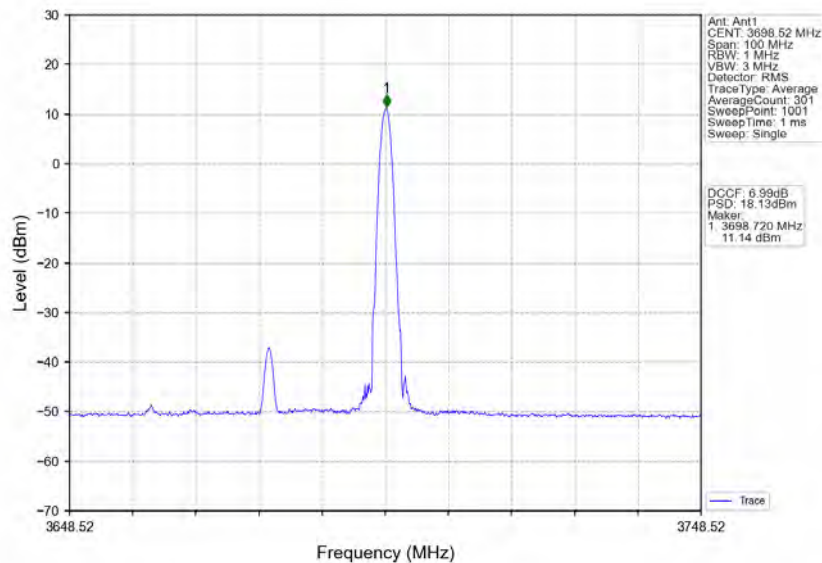
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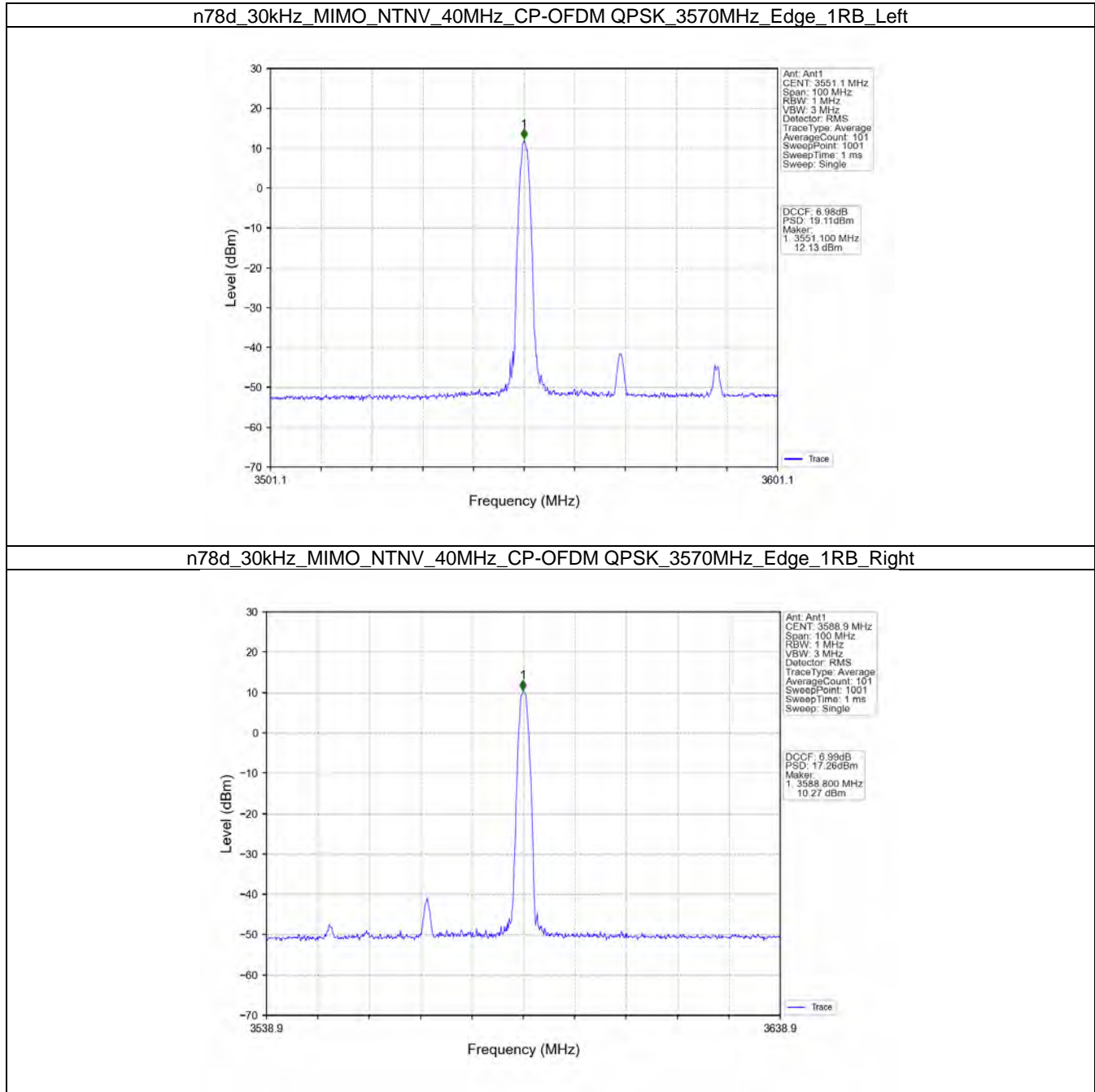
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2.15.3 Test Graph for ANT2



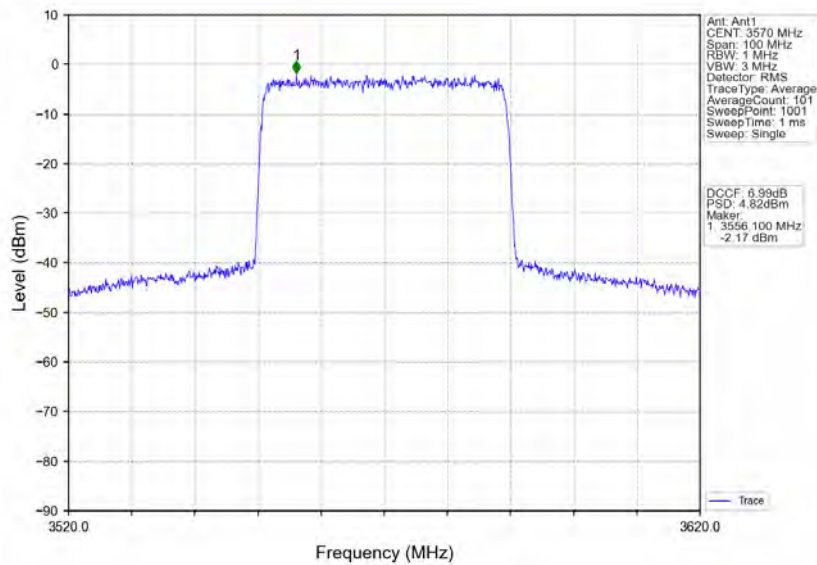
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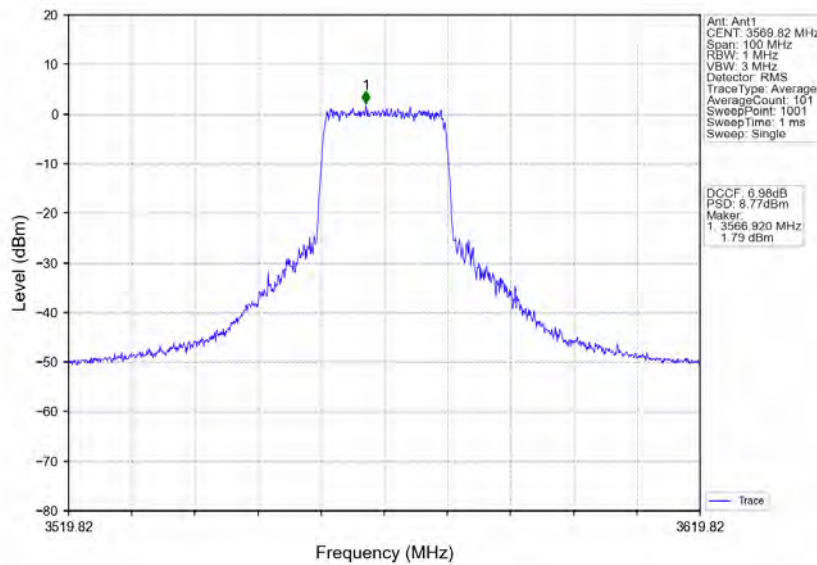
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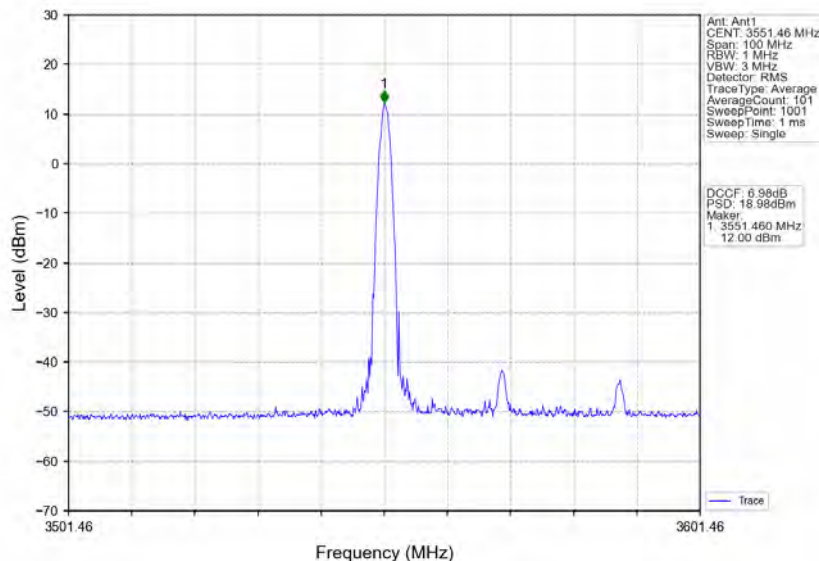
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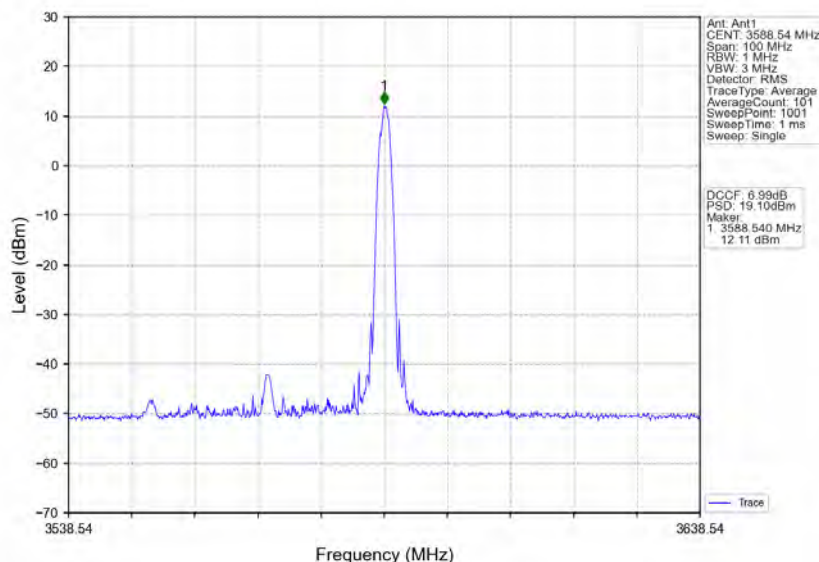
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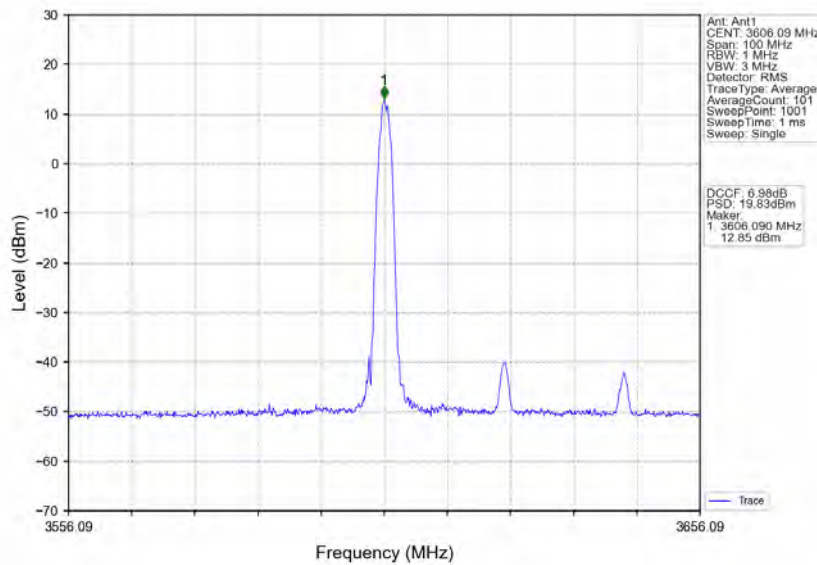
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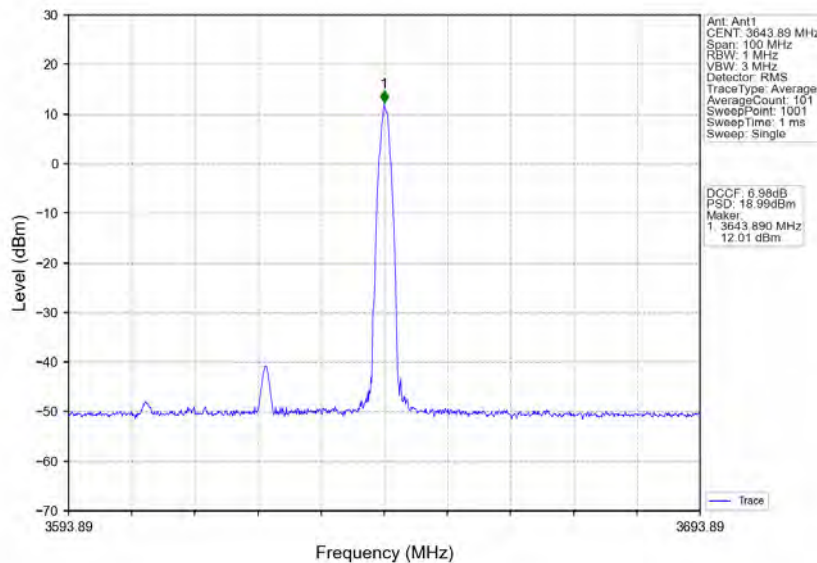
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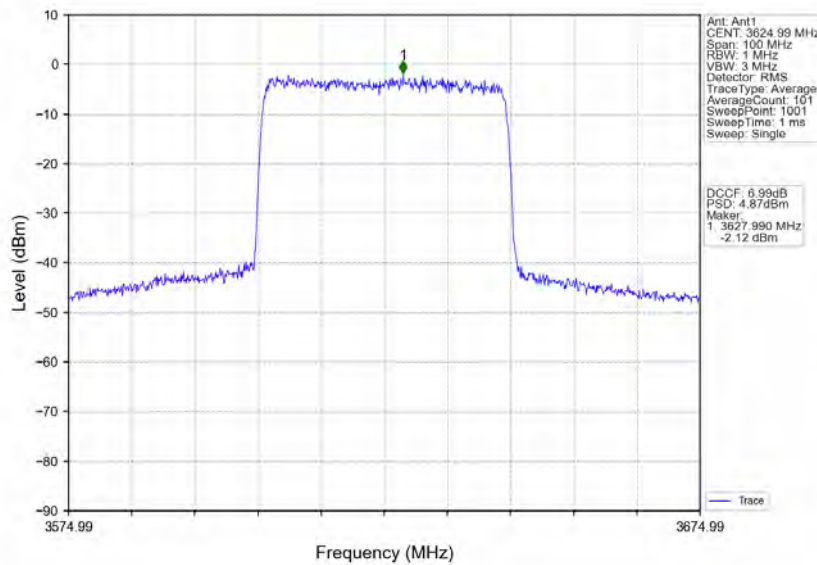
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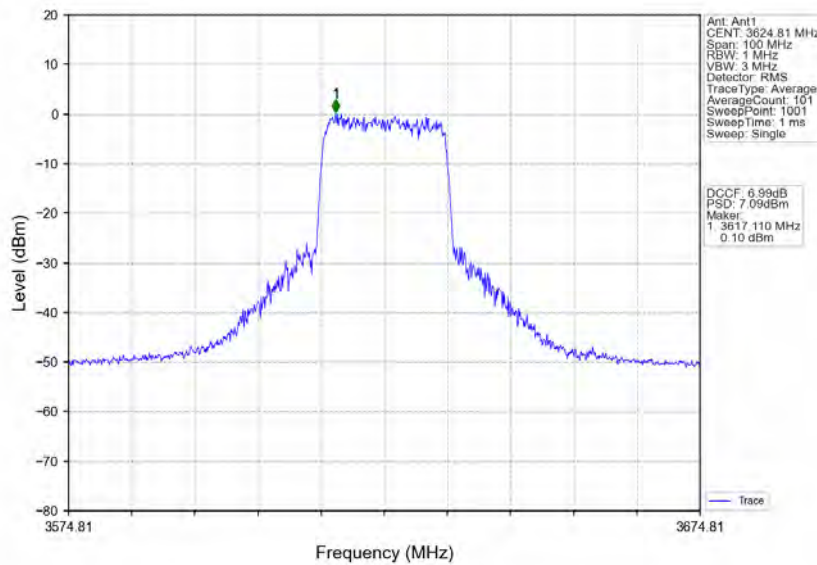
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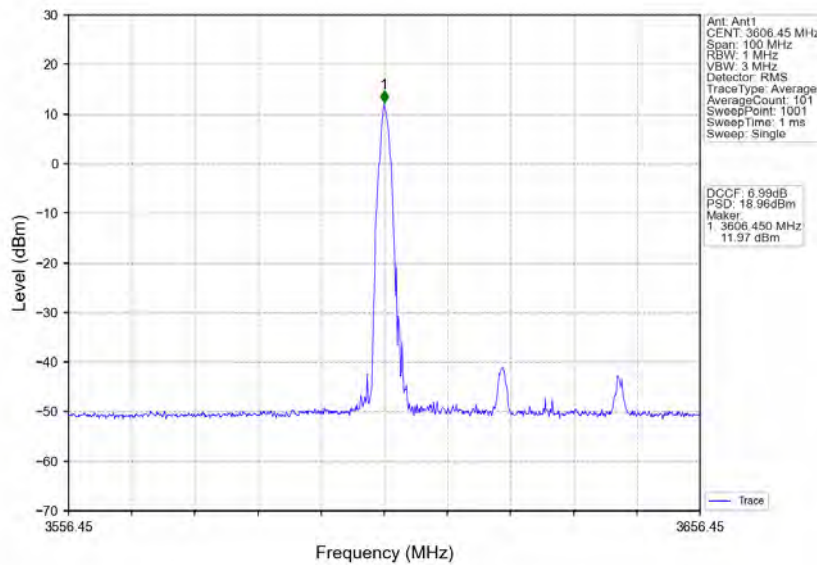
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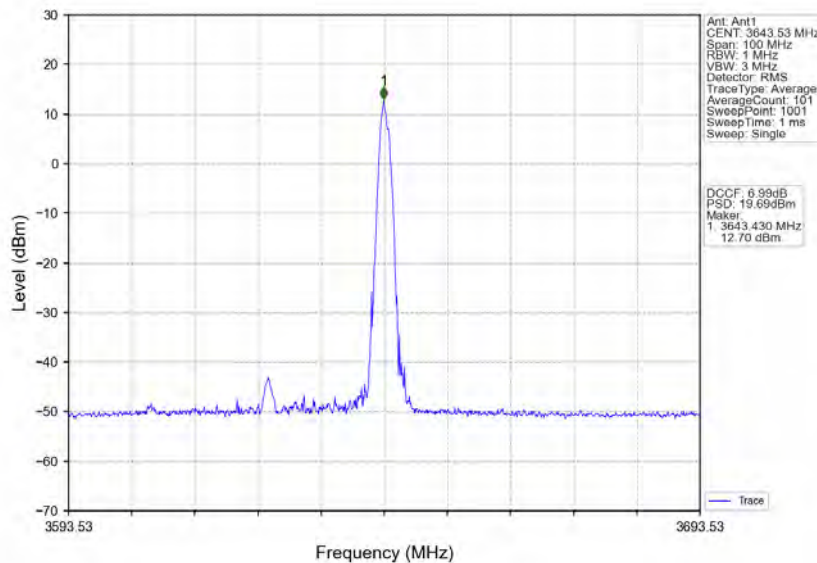
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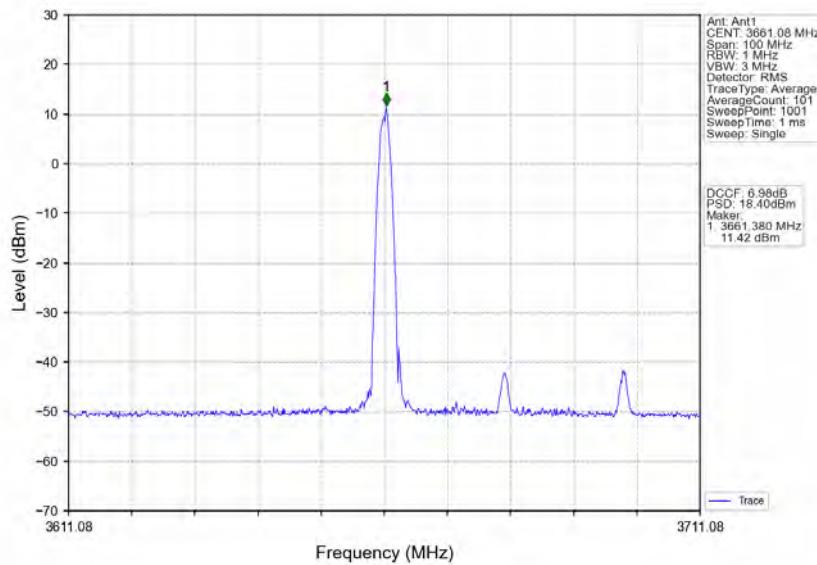
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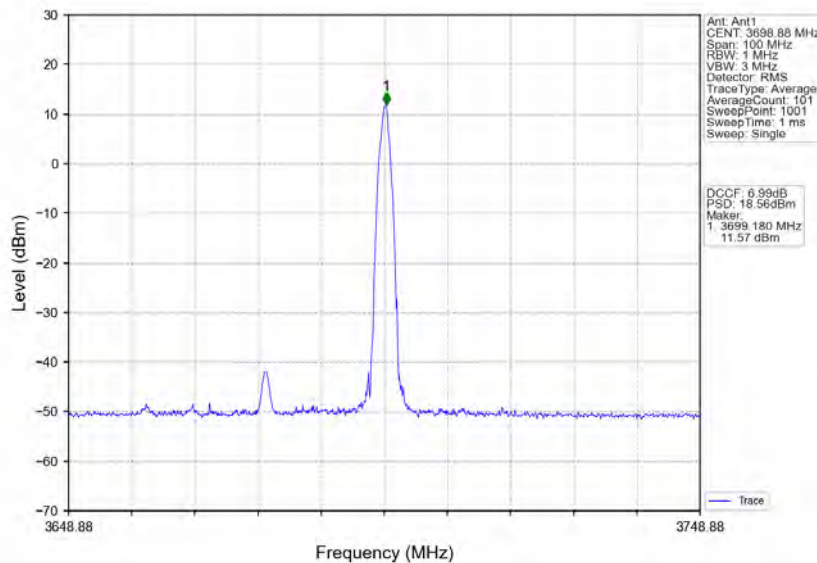
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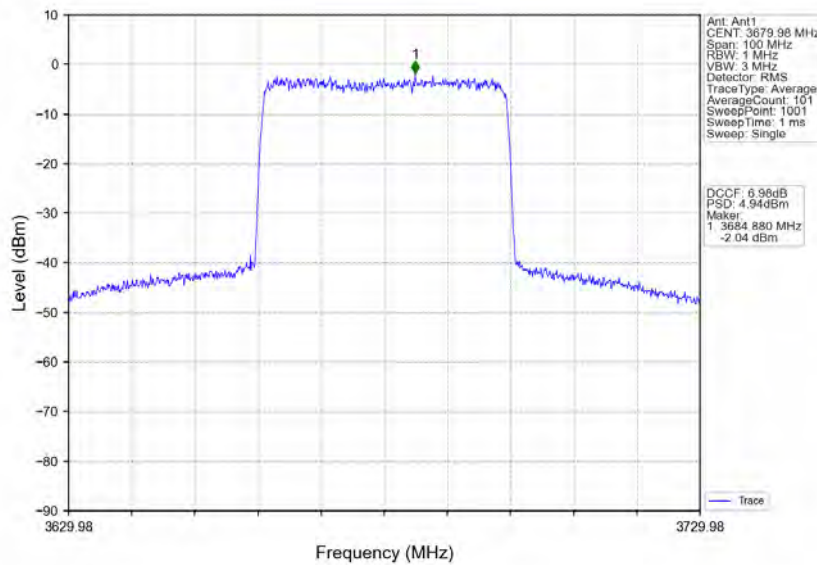
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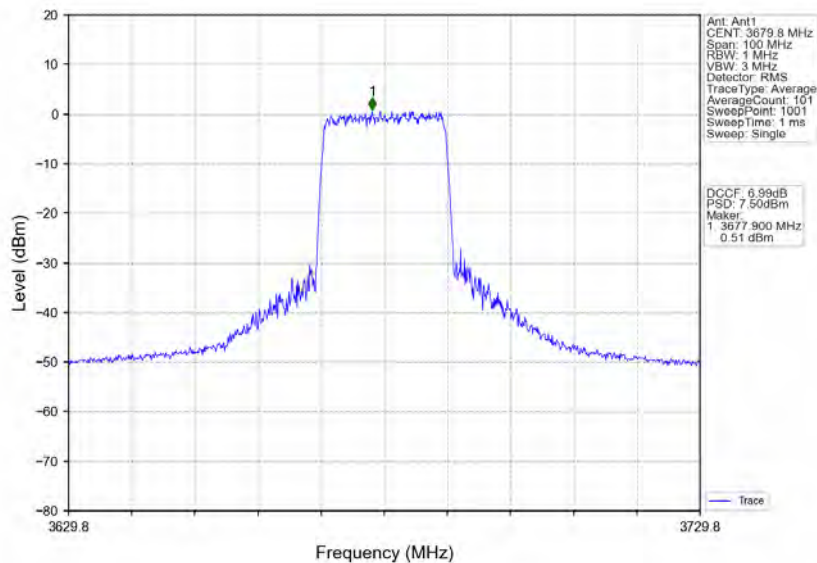
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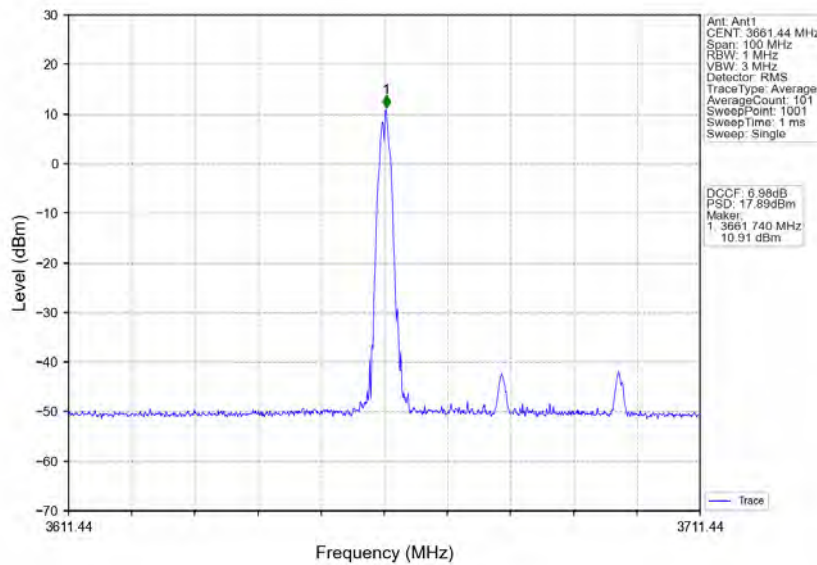
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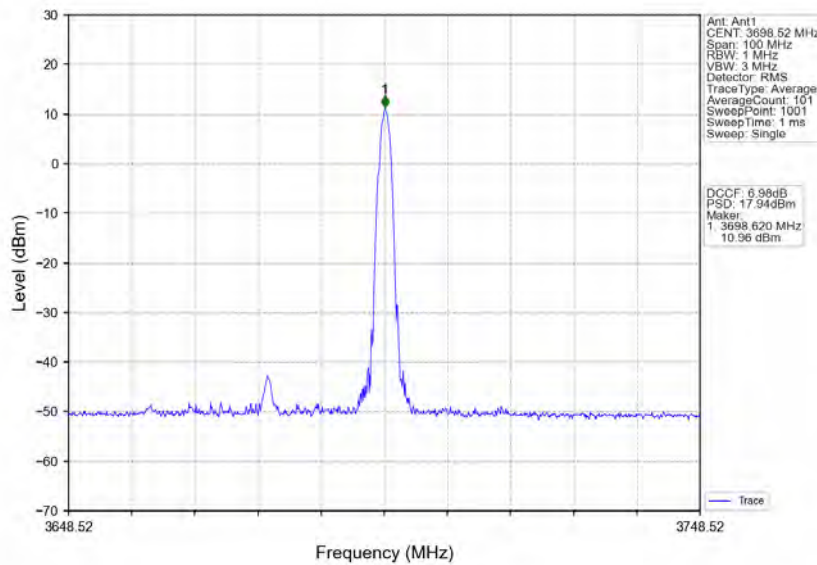
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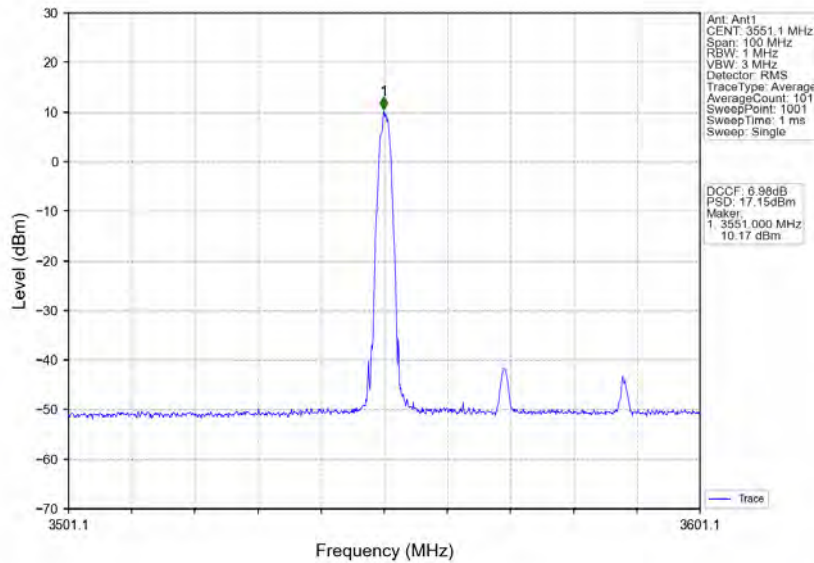
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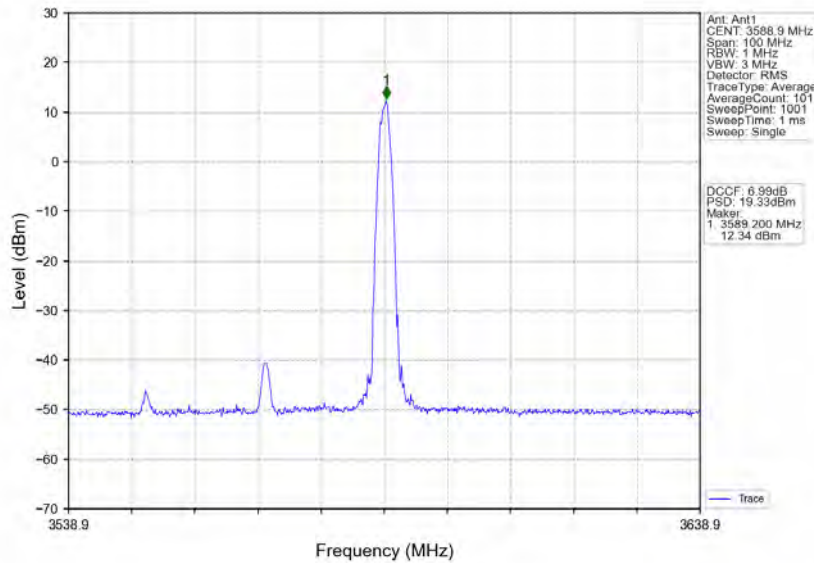
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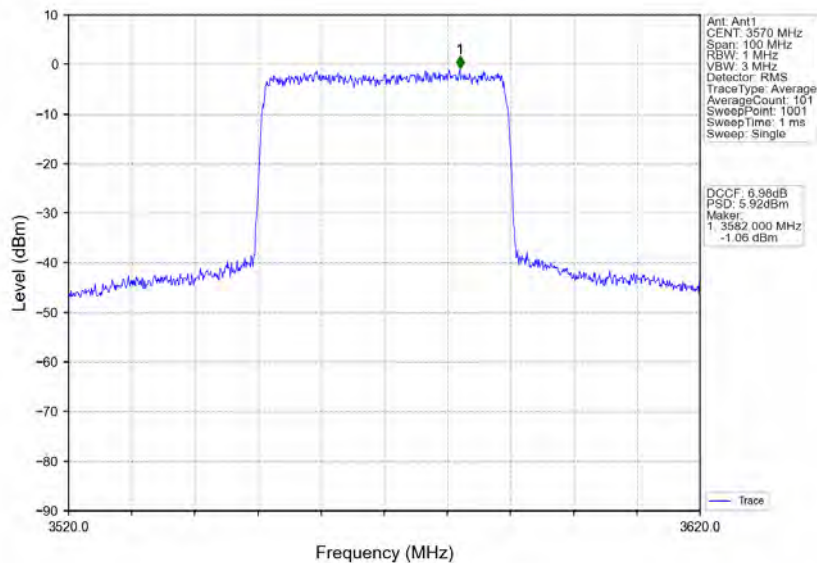
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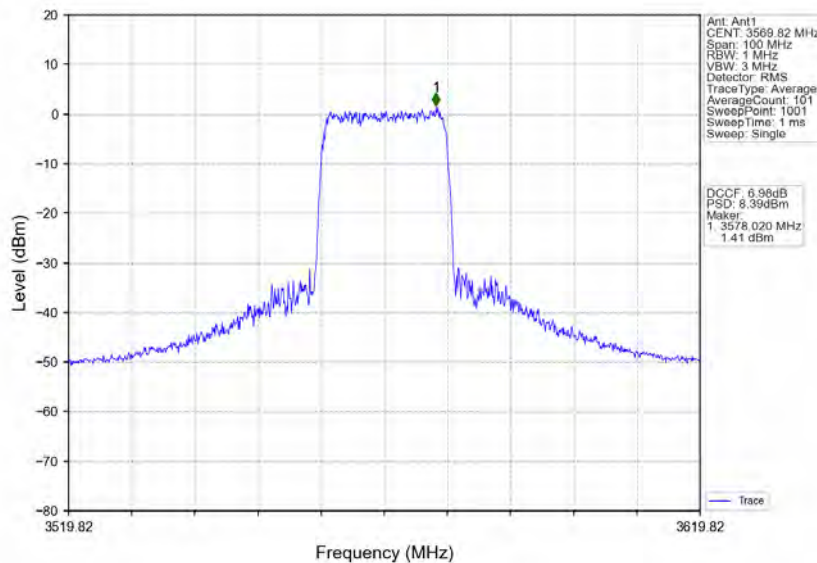
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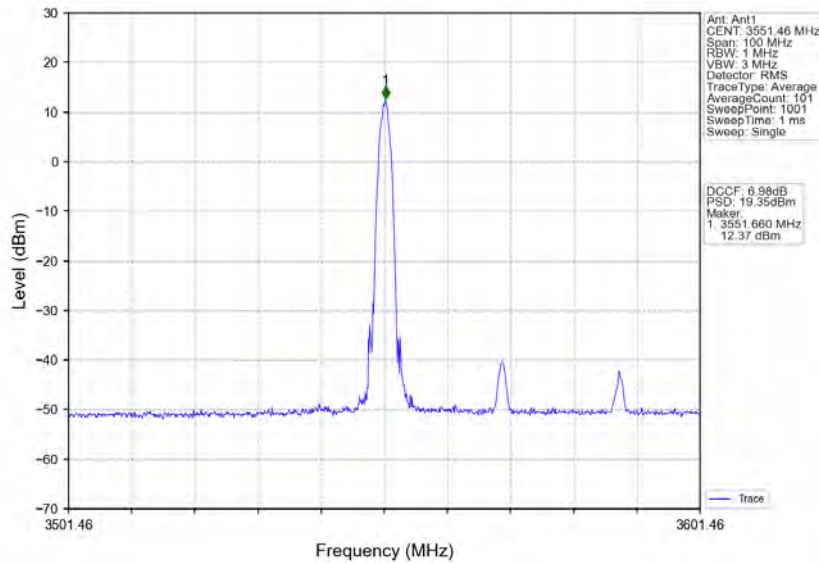
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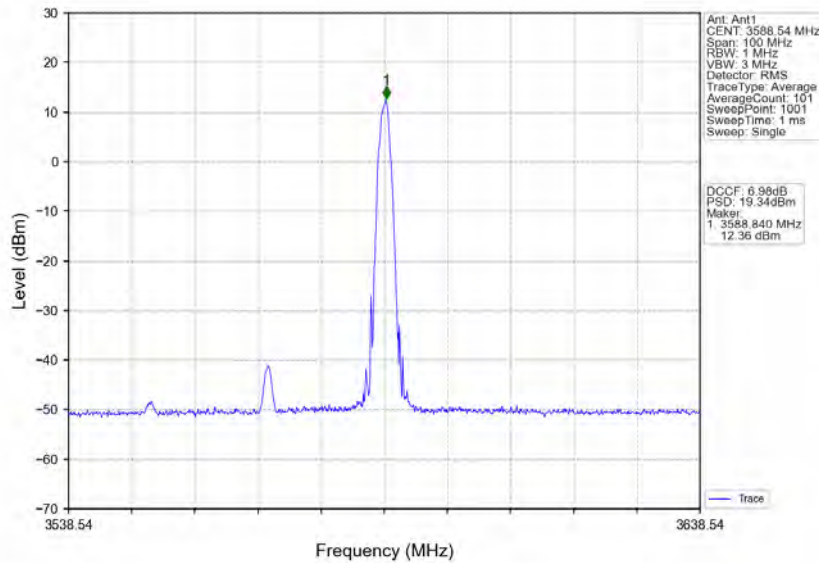
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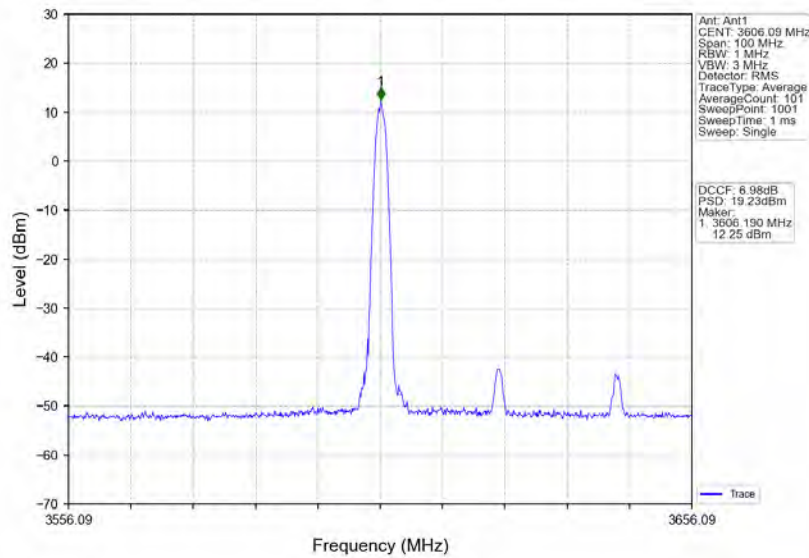
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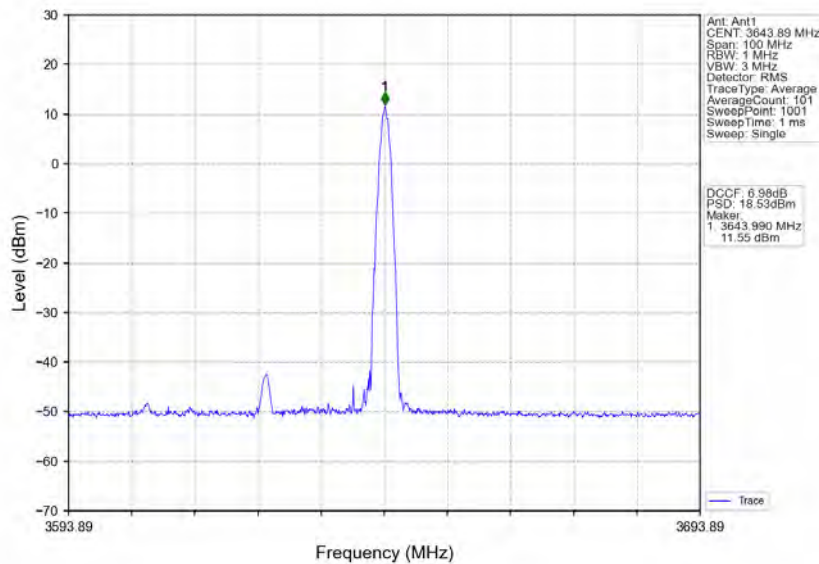
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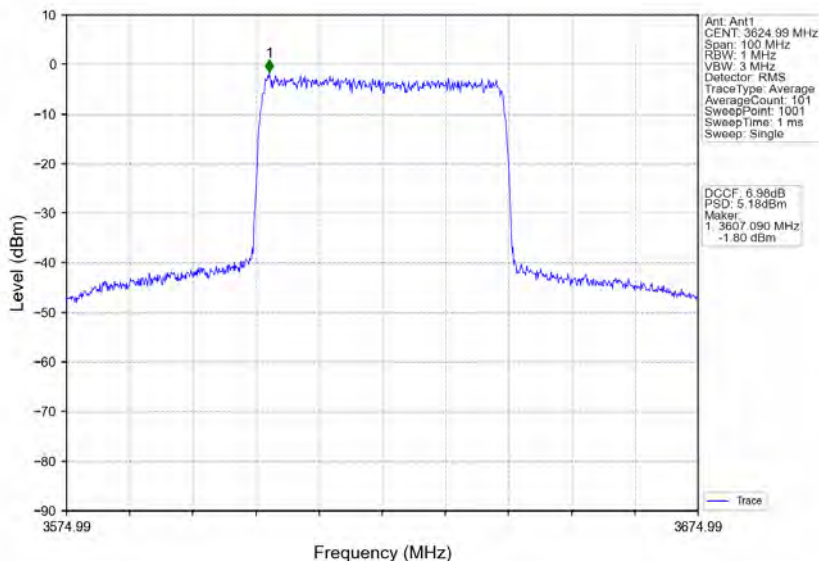
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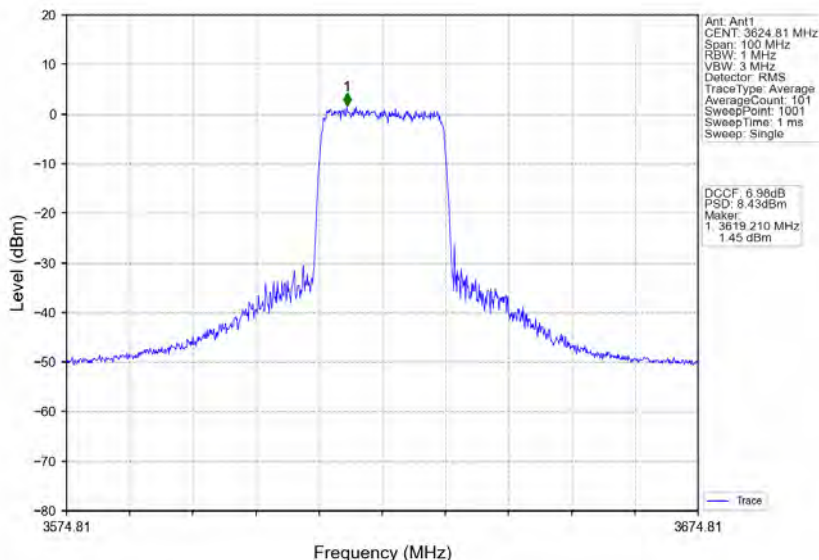
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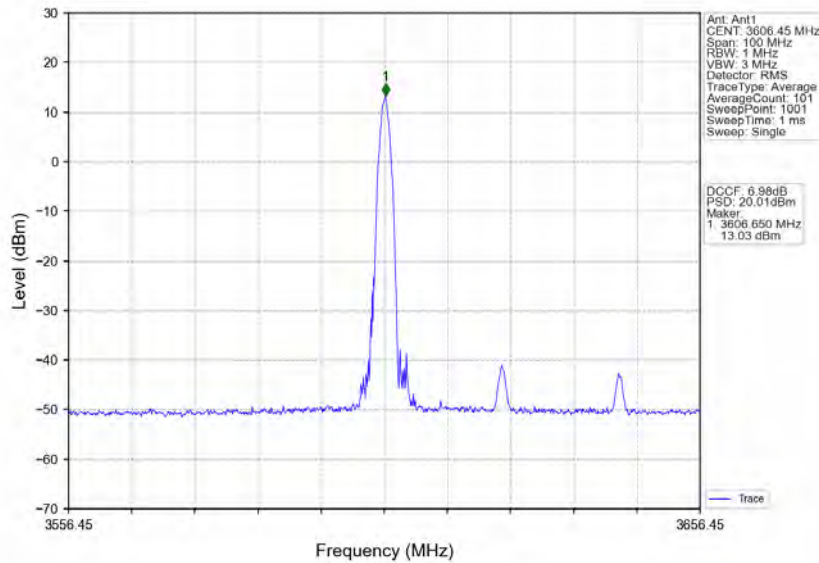
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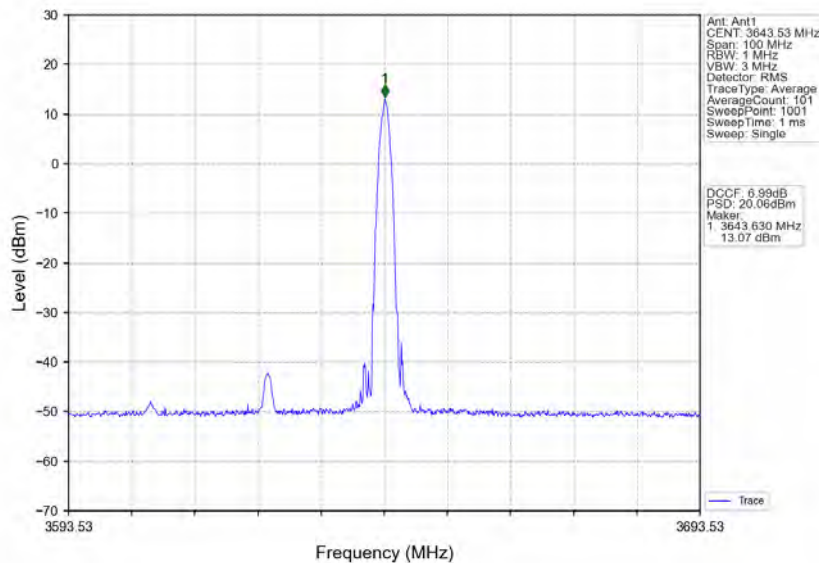
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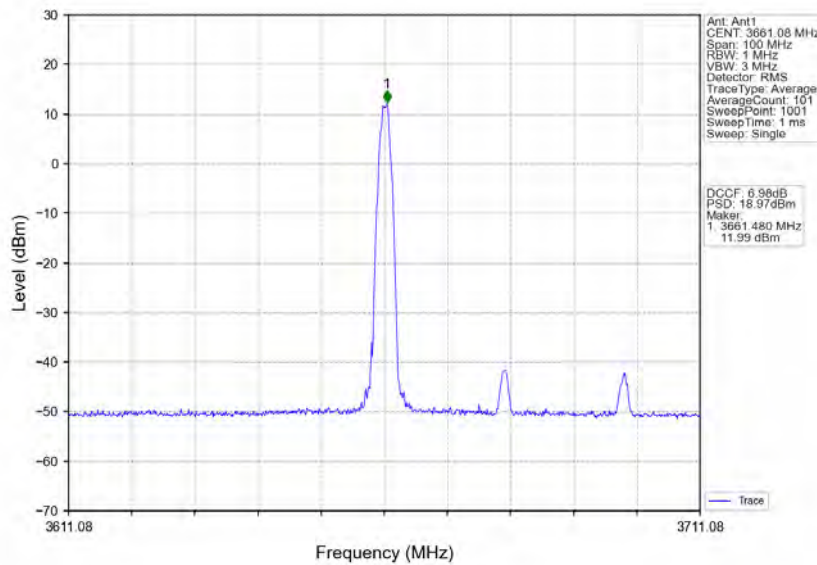
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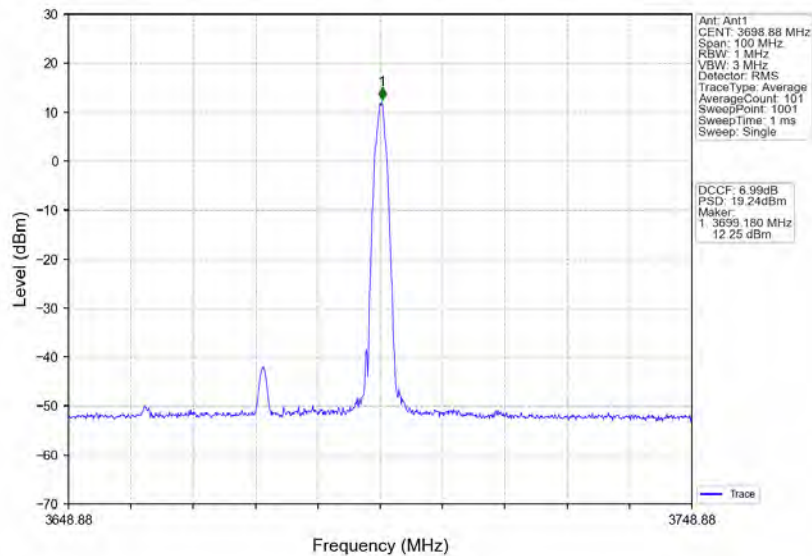
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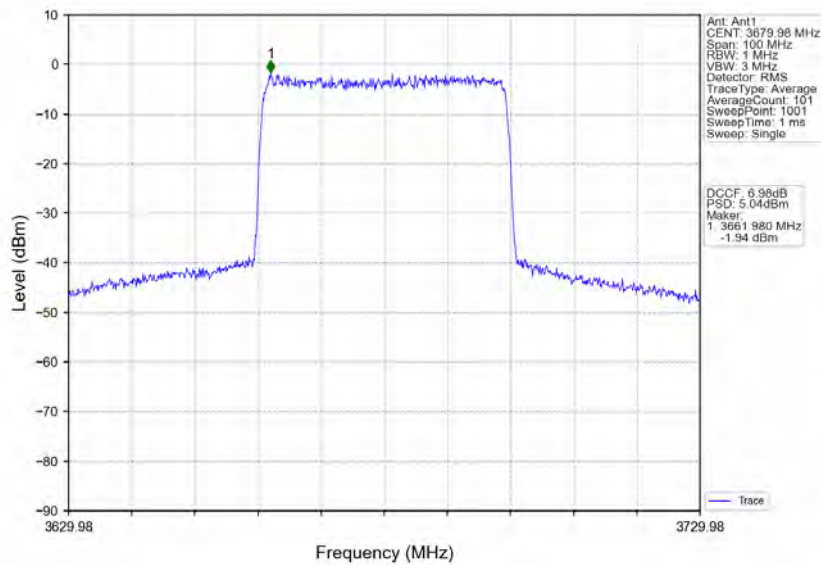
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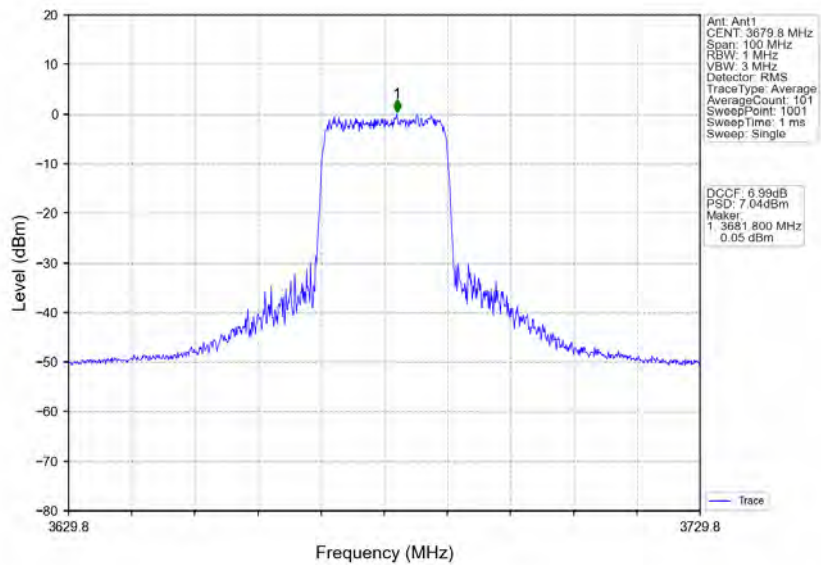
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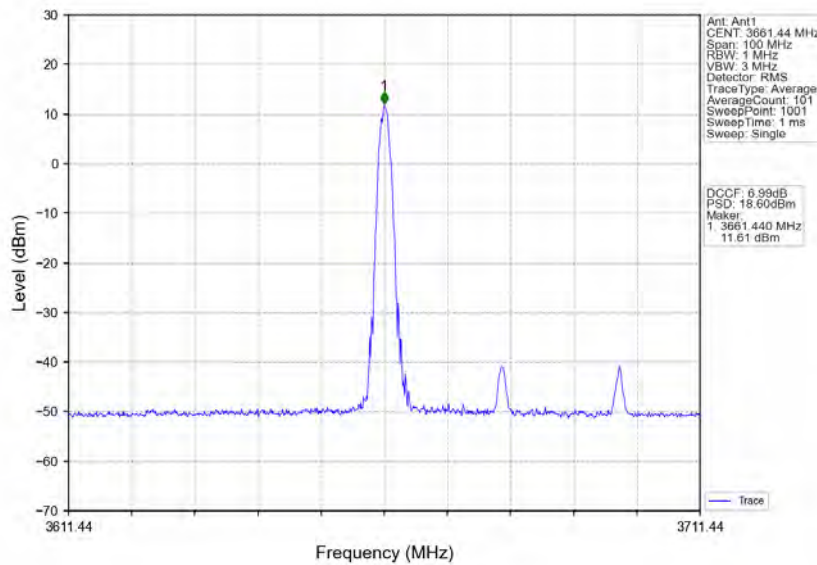
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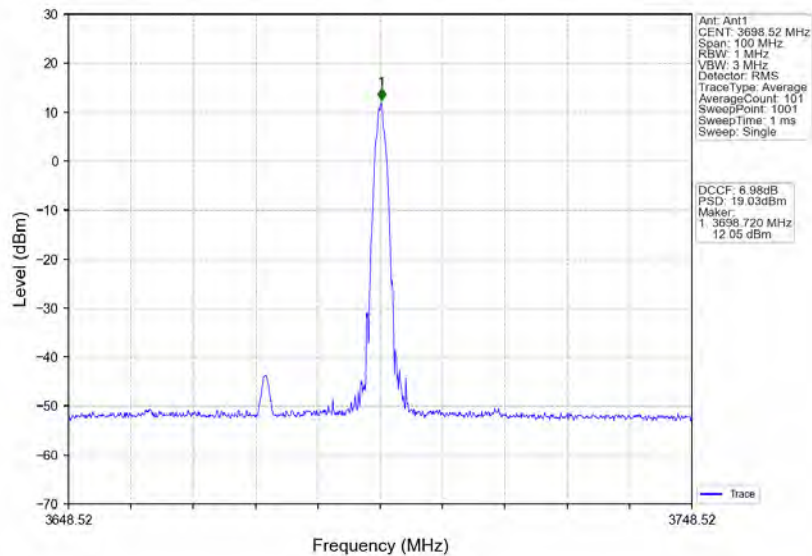
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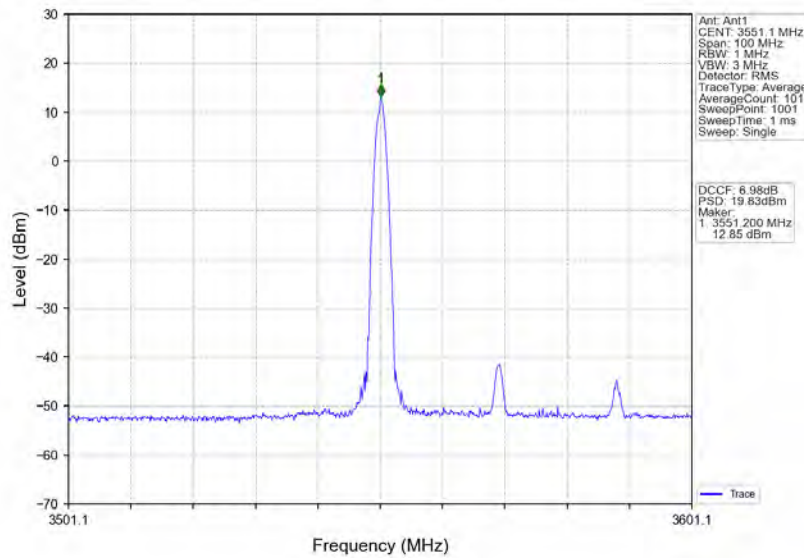
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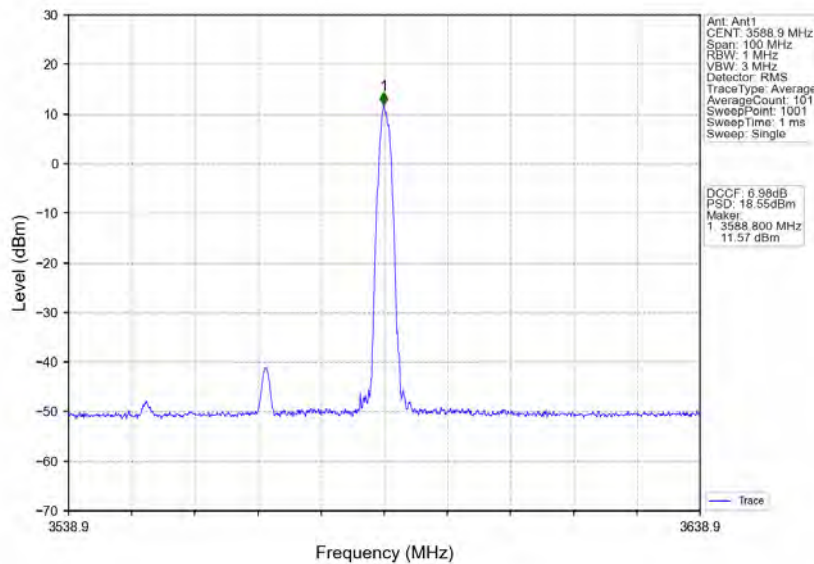
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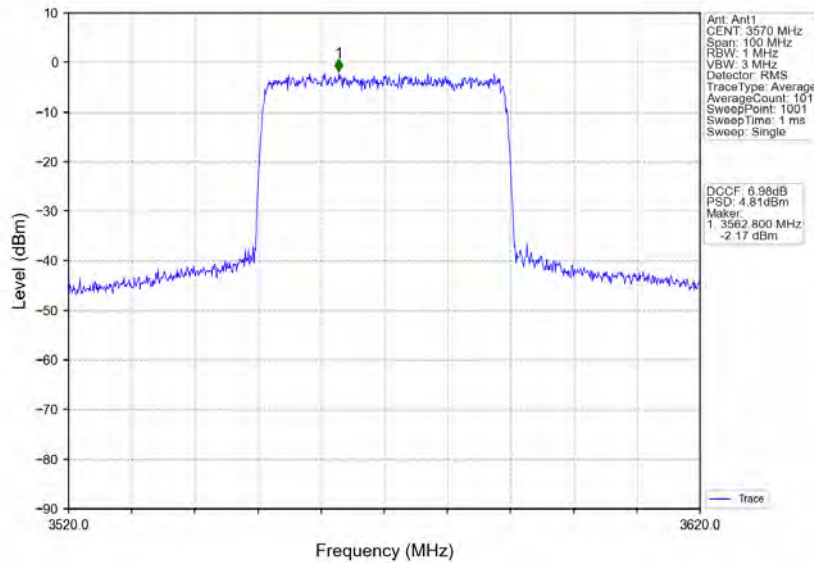
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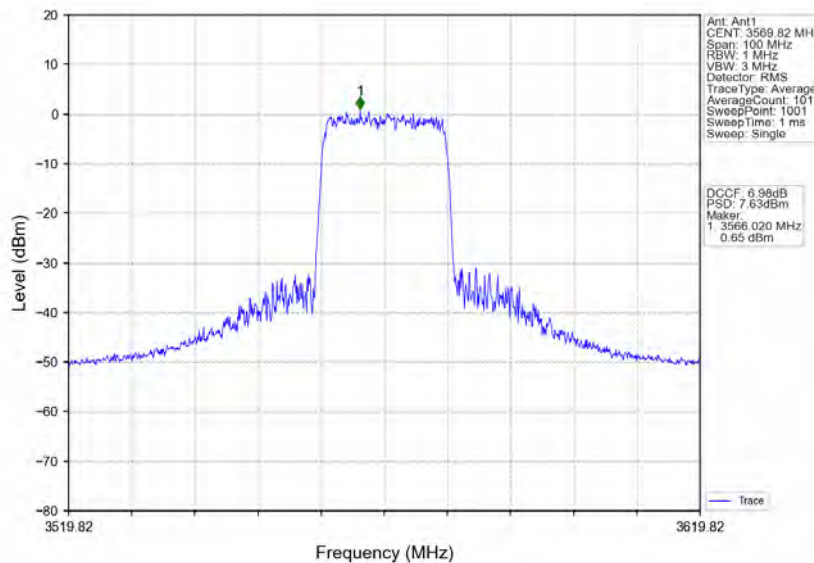
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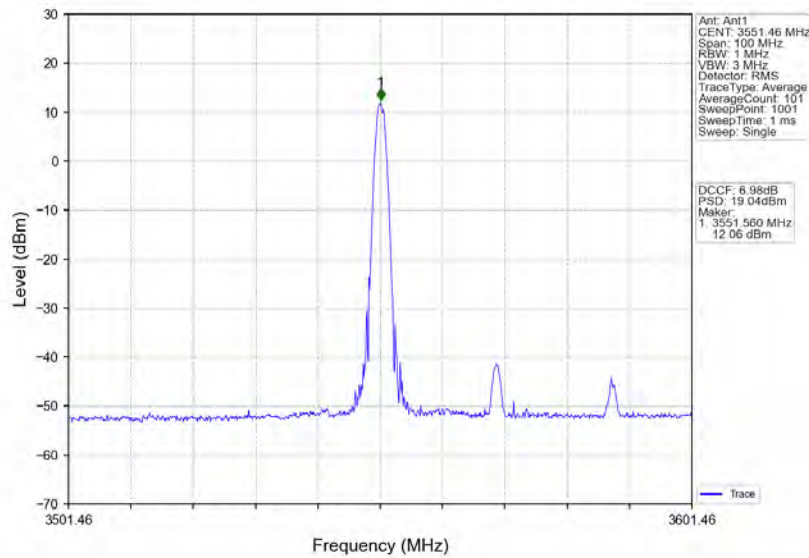
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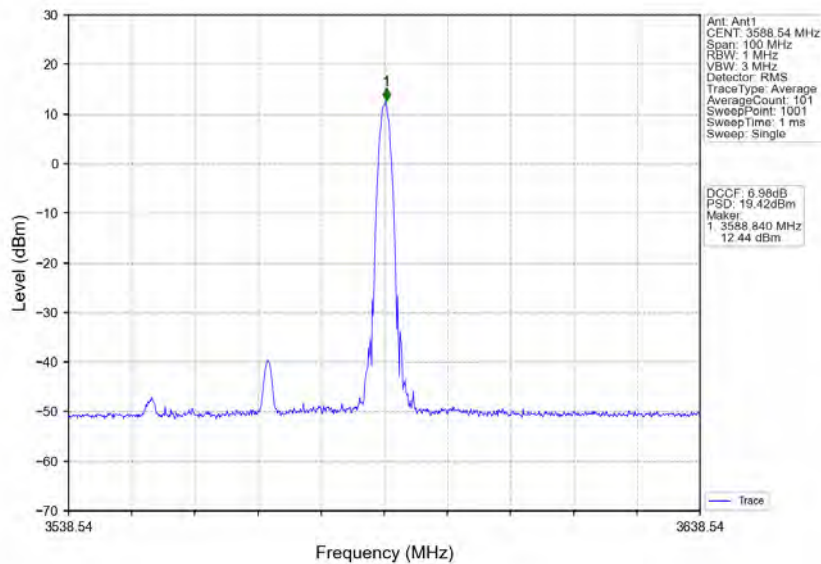
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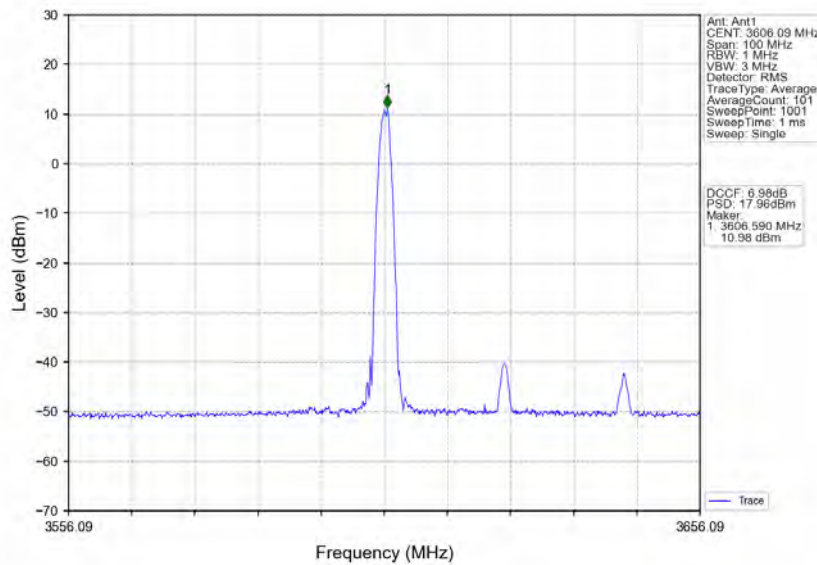
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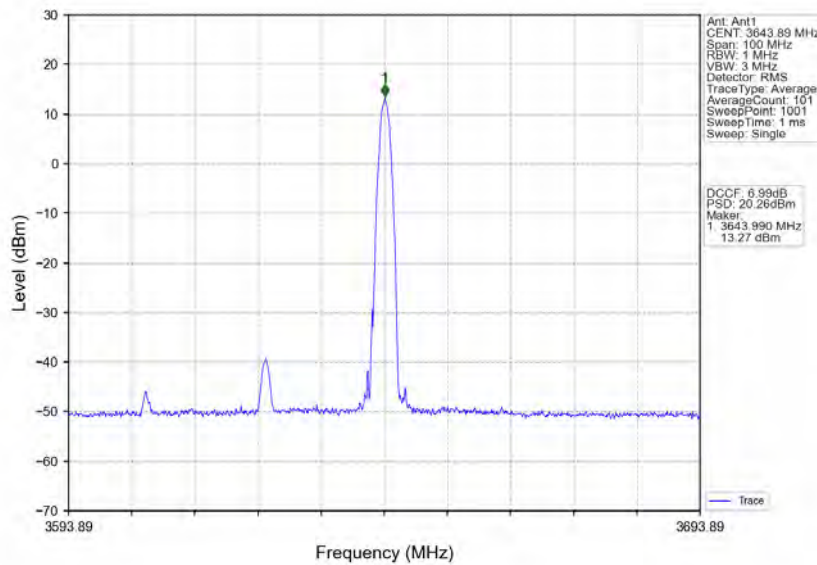
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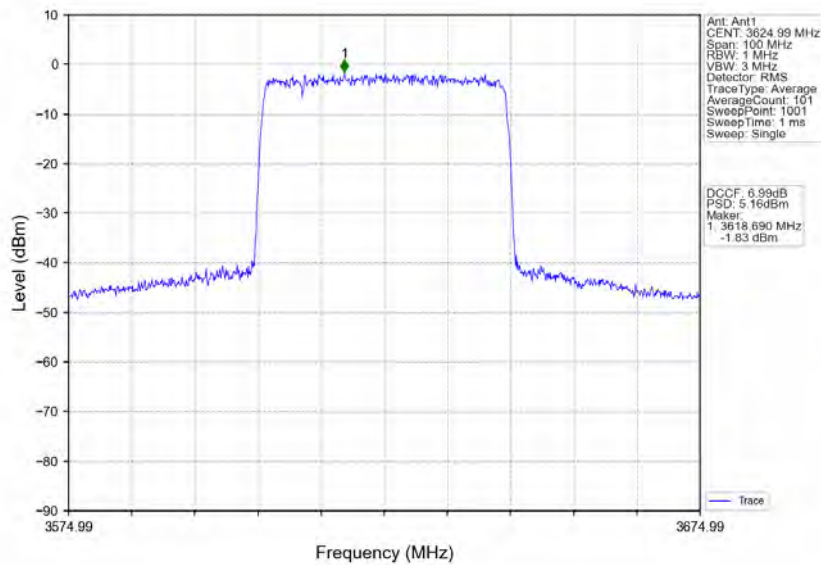
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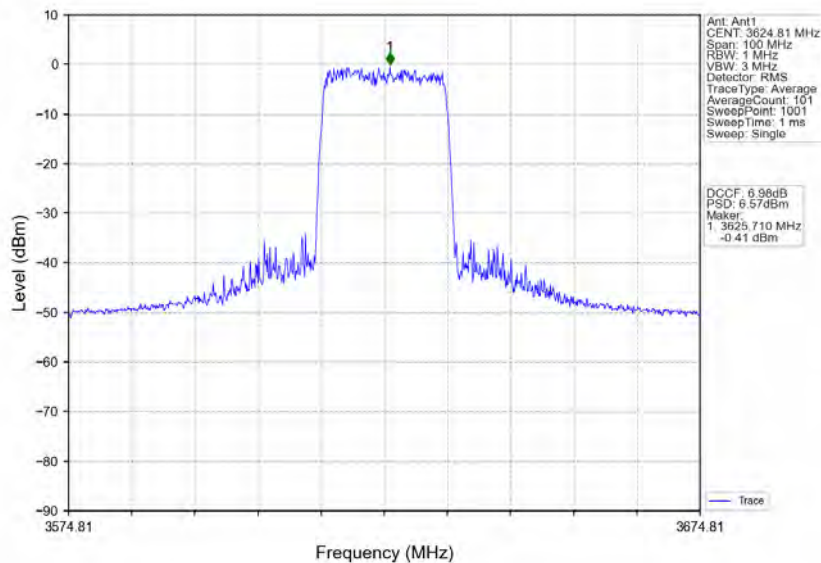
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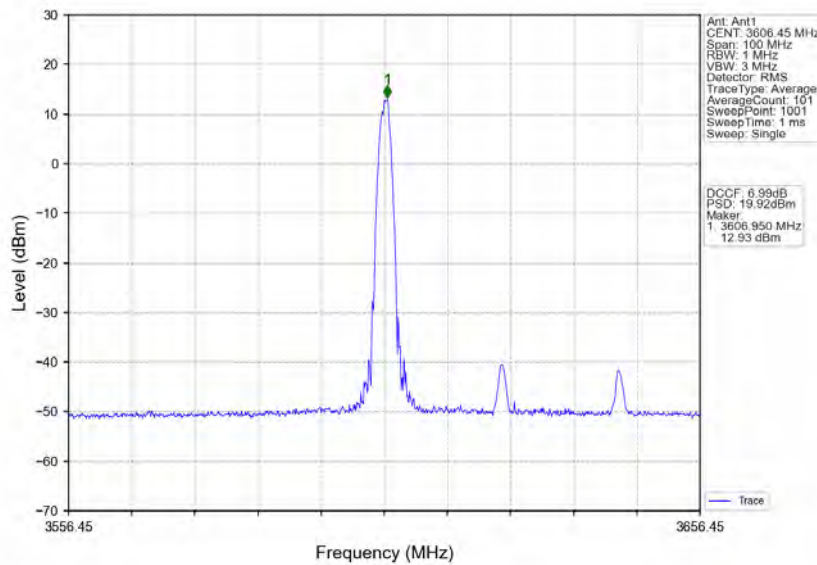
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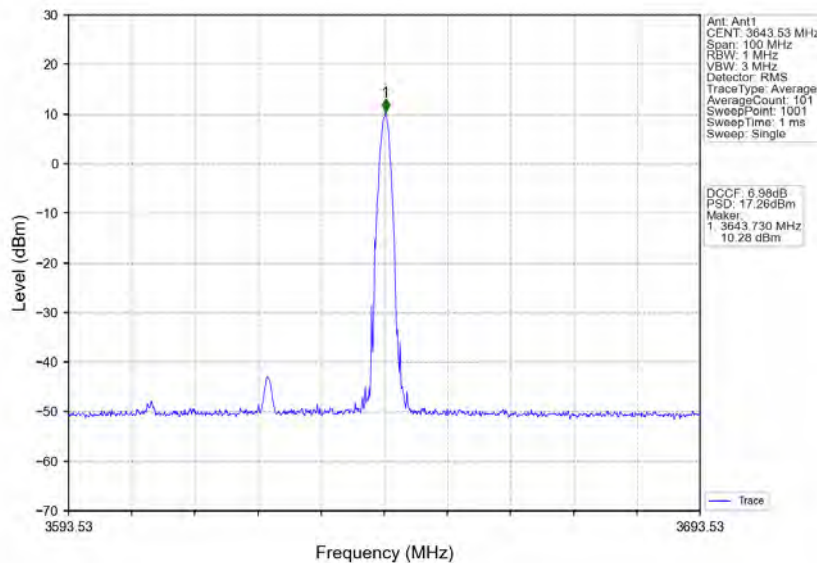
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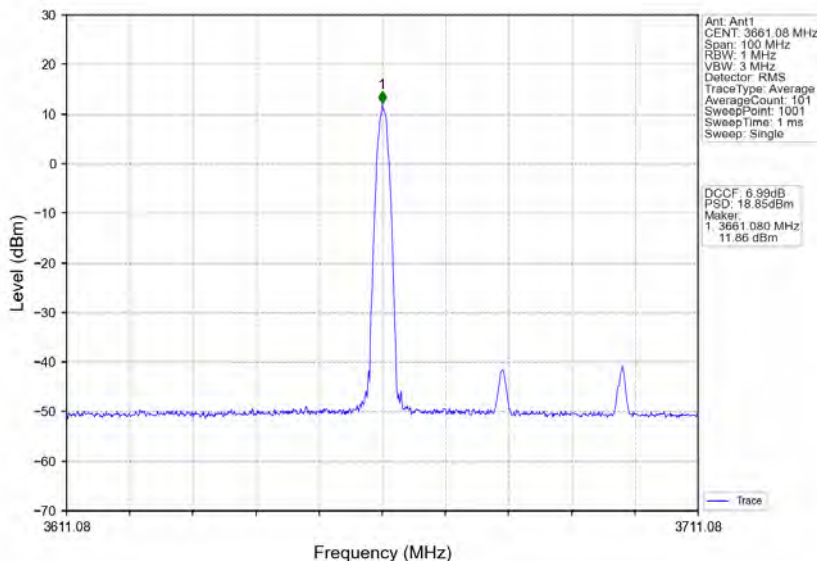
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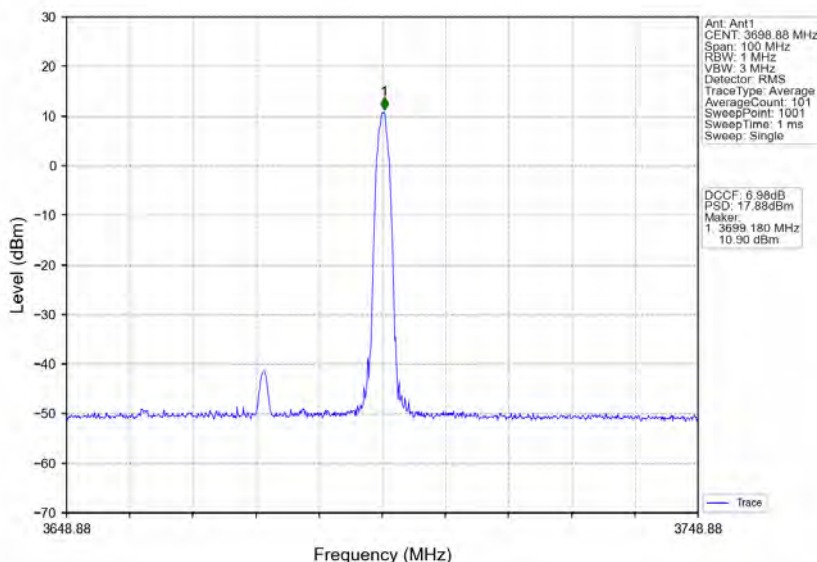
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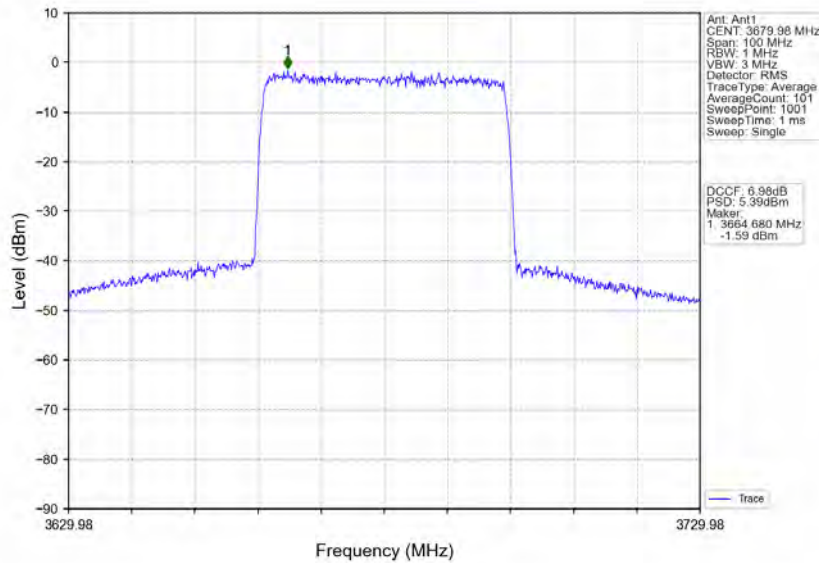
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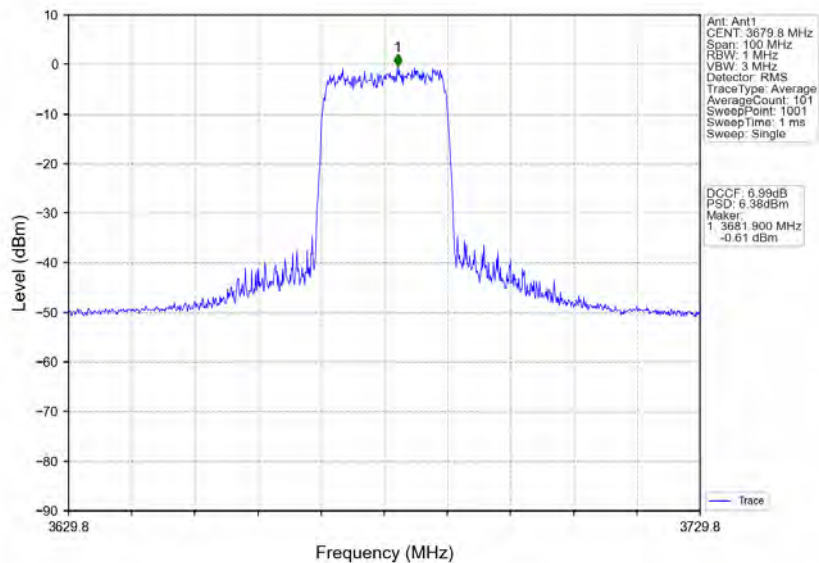
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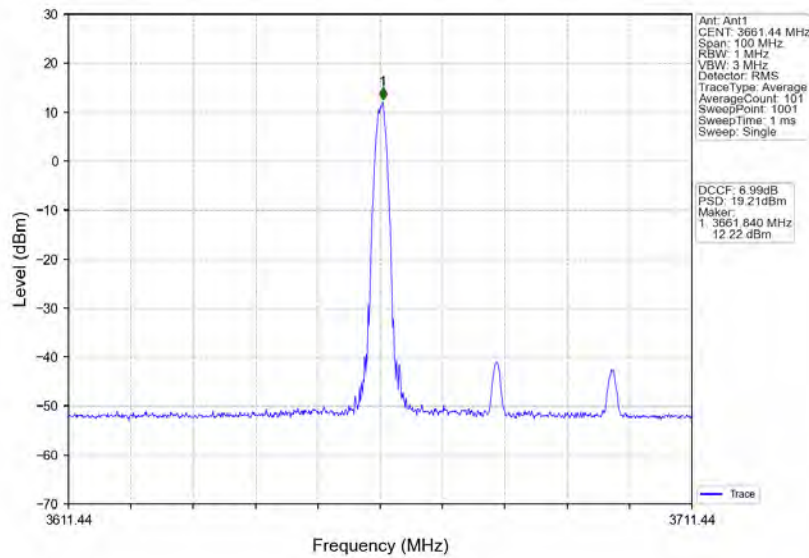
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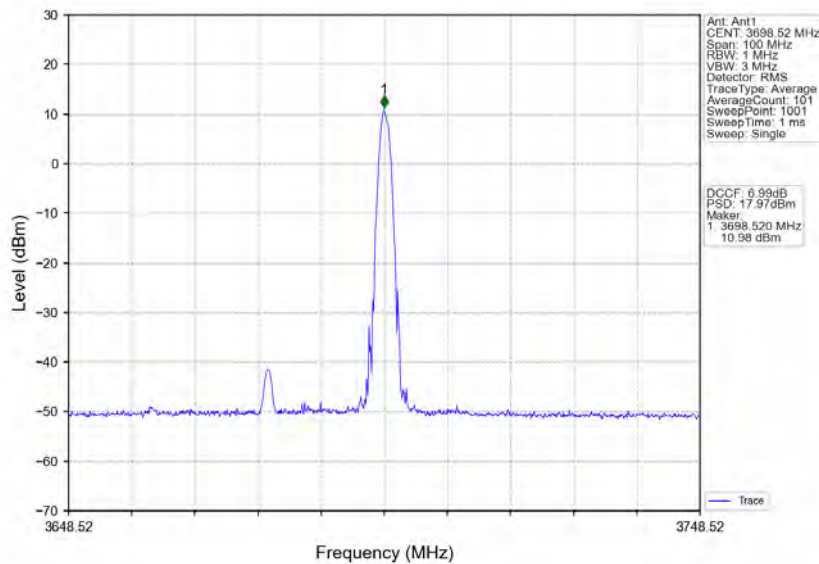
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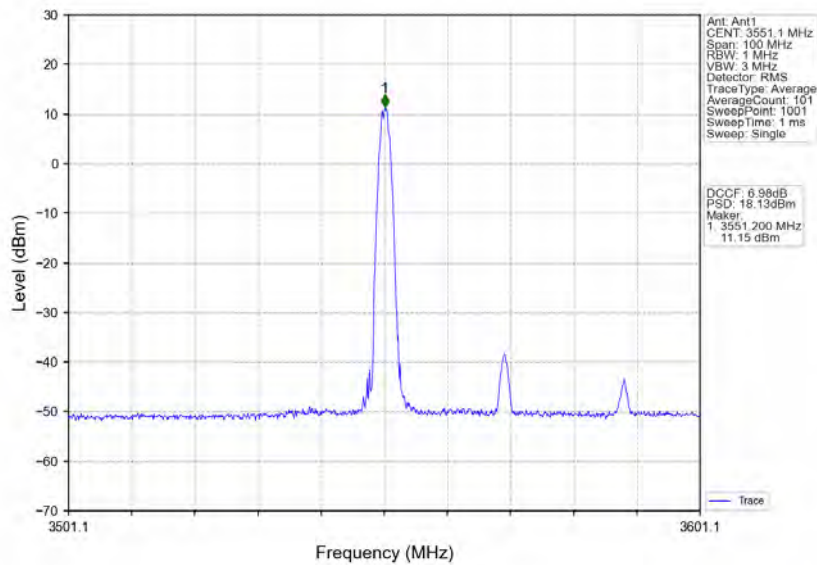
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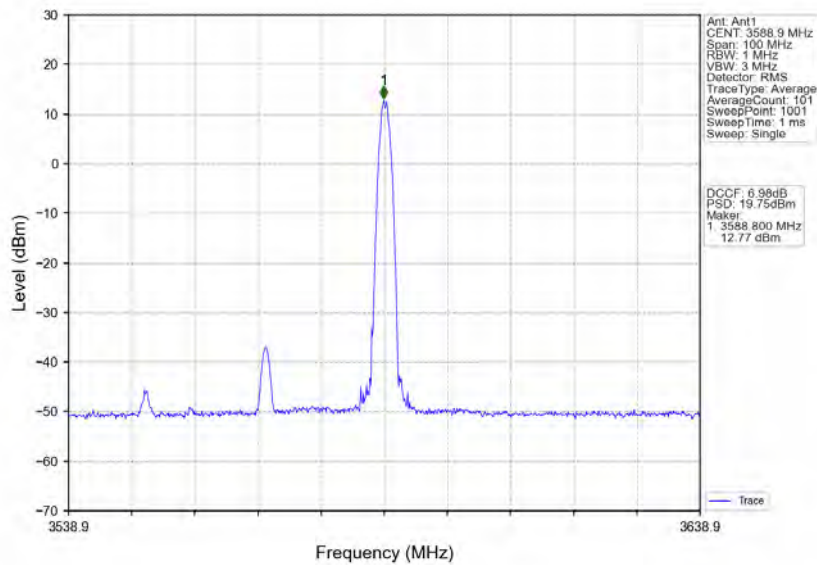
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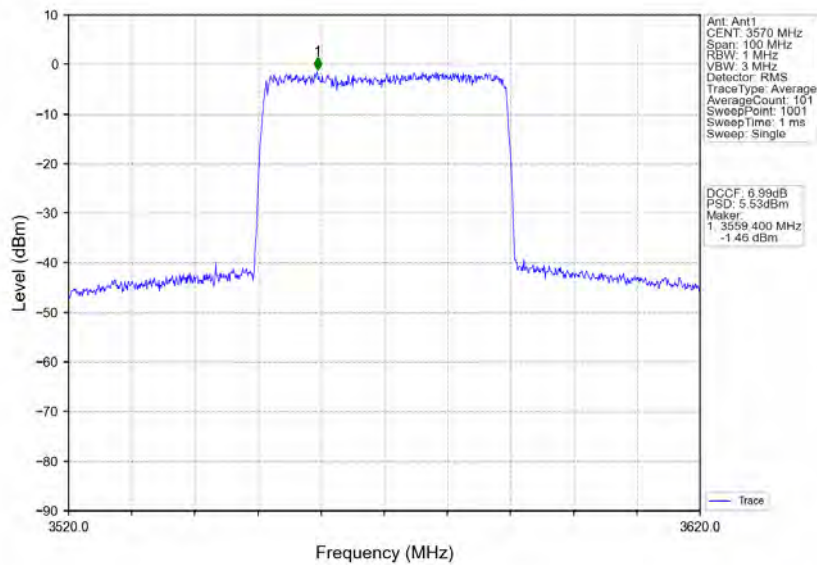
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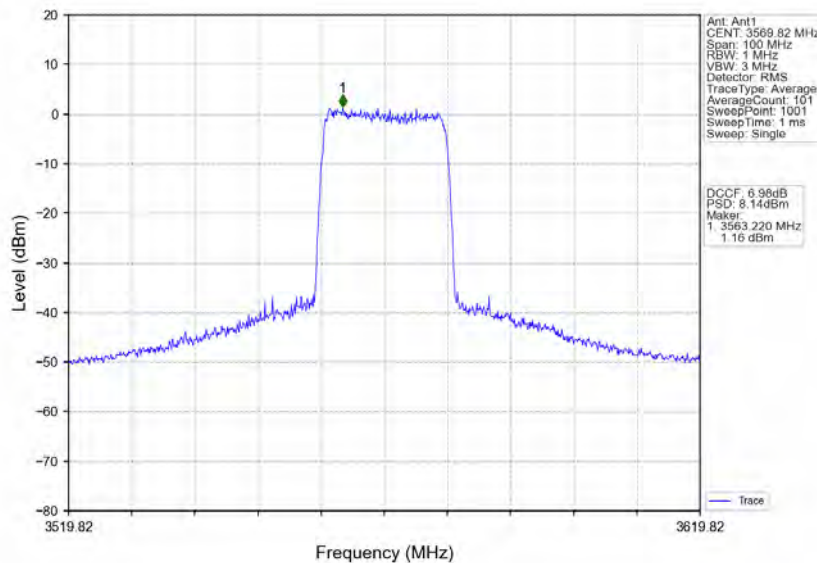
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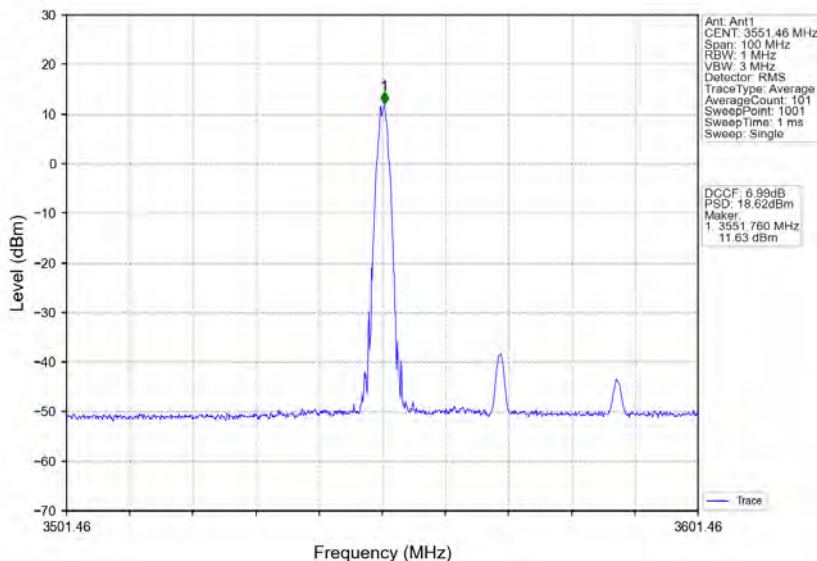
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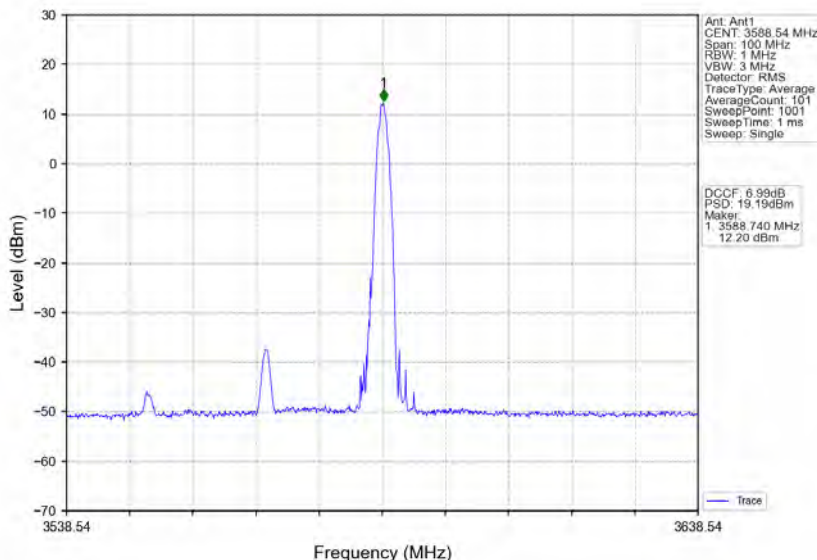
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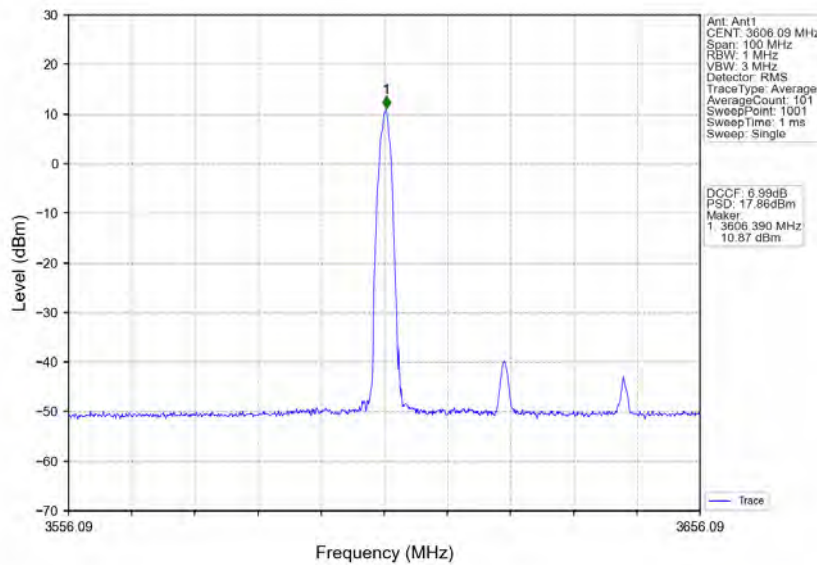
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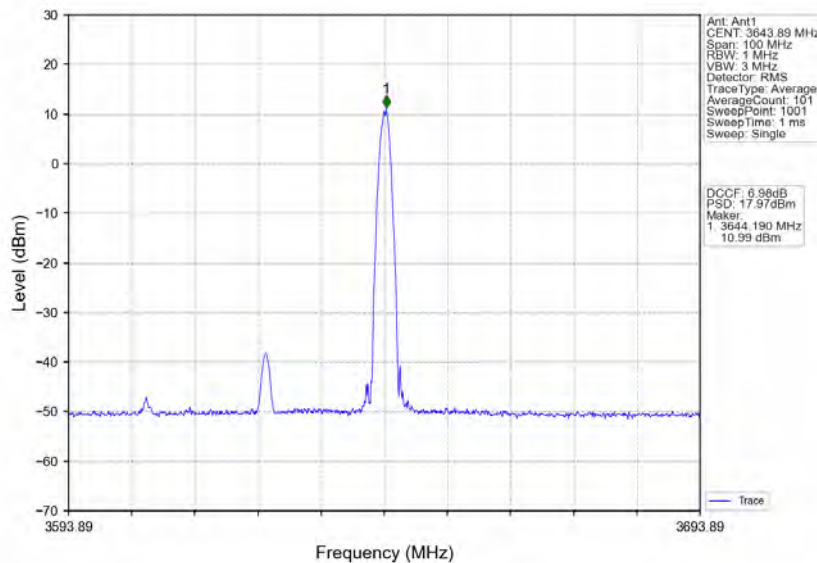
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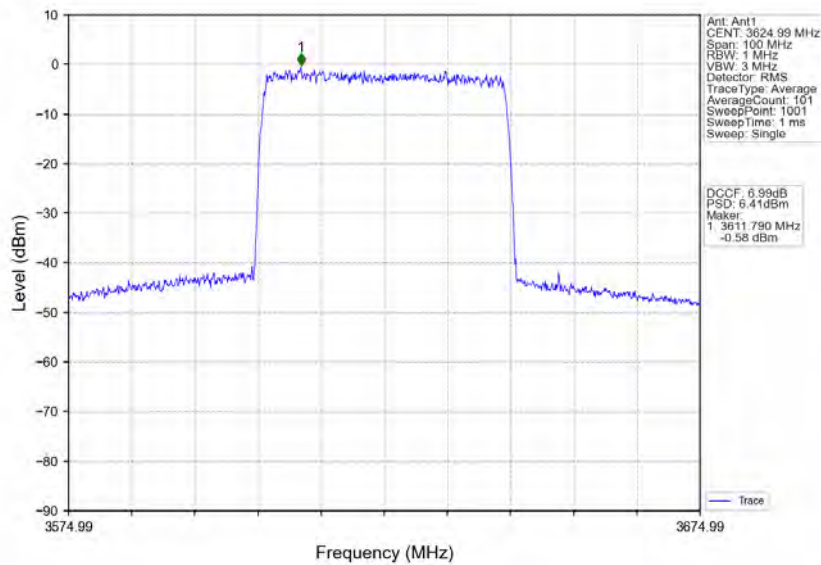
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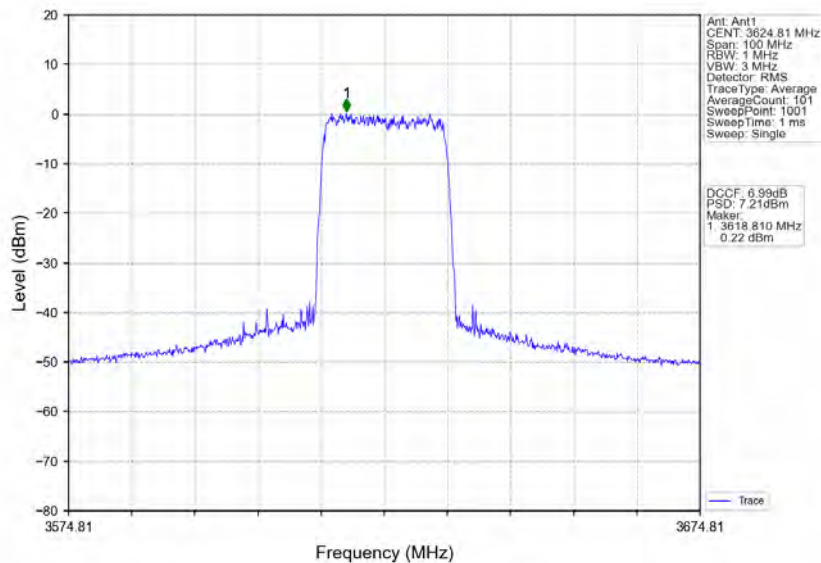
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n78d_30kHz_MIMO_NTNV_40MHz_CP-OFDM 256 QAM_3624.99MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_40MHz_CP-OFDM 256 QAM_3624.99MHz_Inner_Full



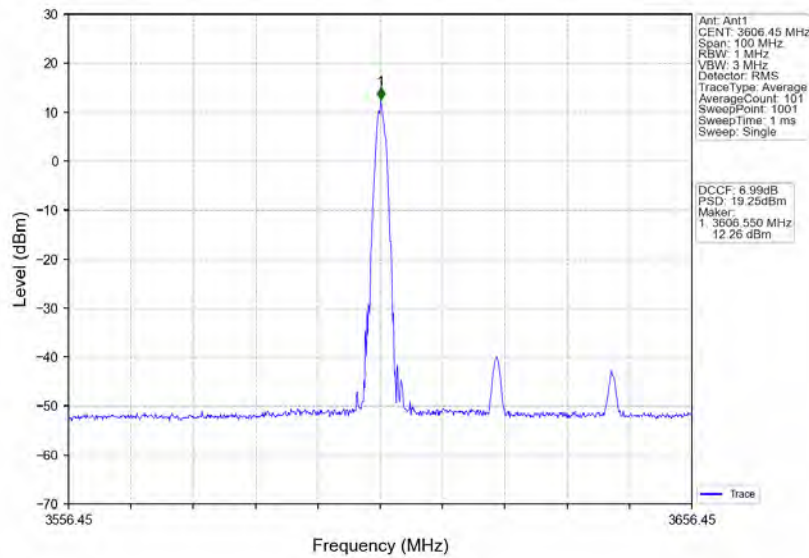
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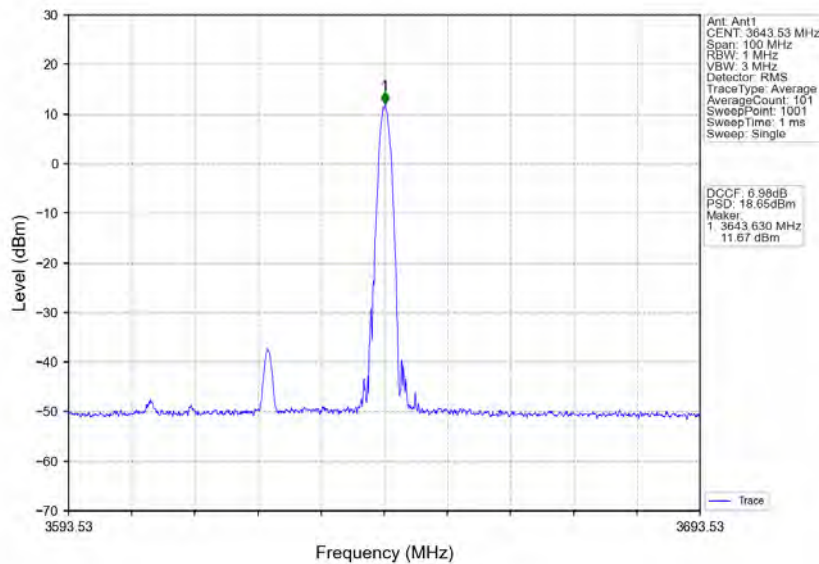
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n78d_30kHz_MIMO_NTNV_40MHz_CP-OFDM 256 QAM_3624.99MHz_Inner_1RB_Left



n78d_30kHz_MIMO_NTNV_40MHz_CP-OFDM 256 QAM_3624.99MHz_Inner_1RB_Right



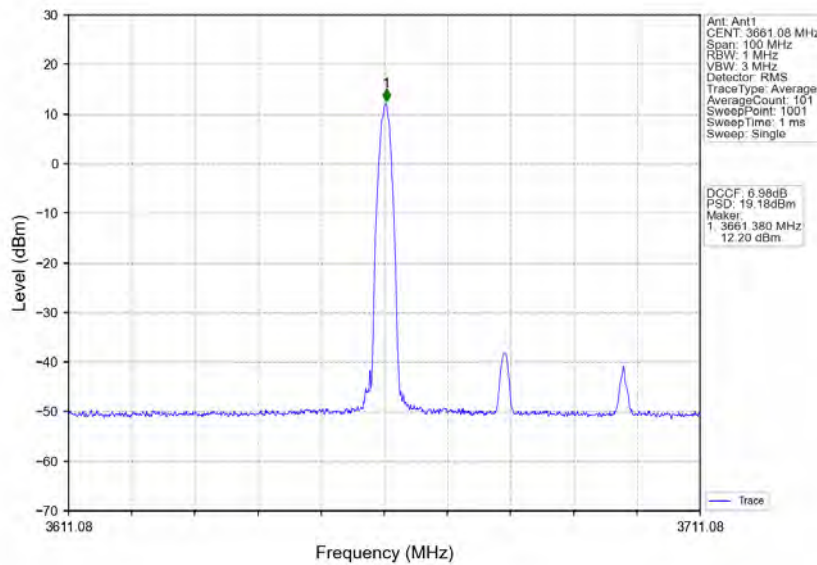
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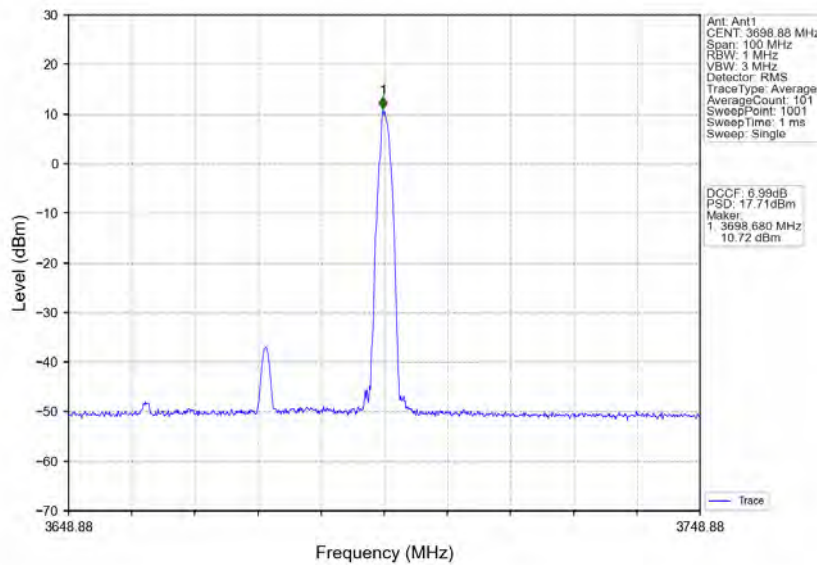
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n78d_30kHz_MIMO_NTNV_40MHz_CP-OFDM 256 QAM_3679.98MHz_Edge_1RB_Left



n78d_30kHz_MIMO_NTNV_40MHz_CP-OFDM 256 QAM_3679.98MHz_Edge_1RB_Right



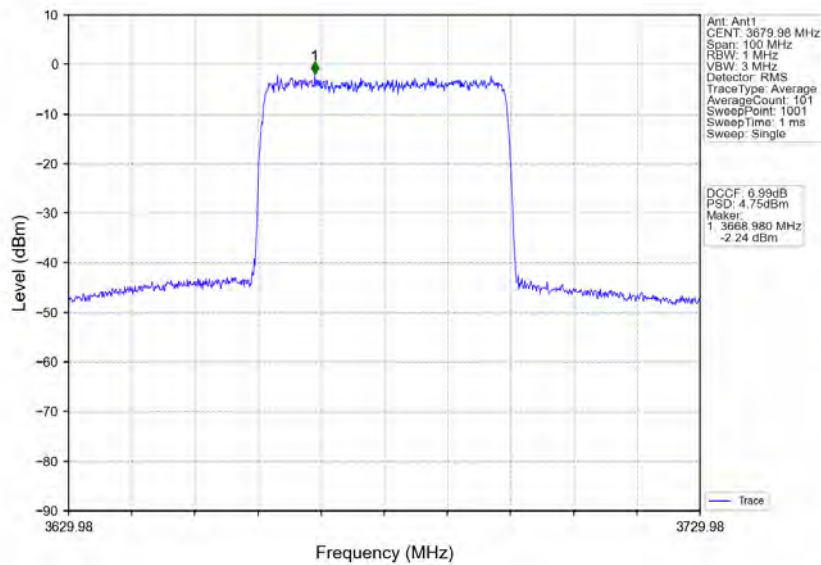
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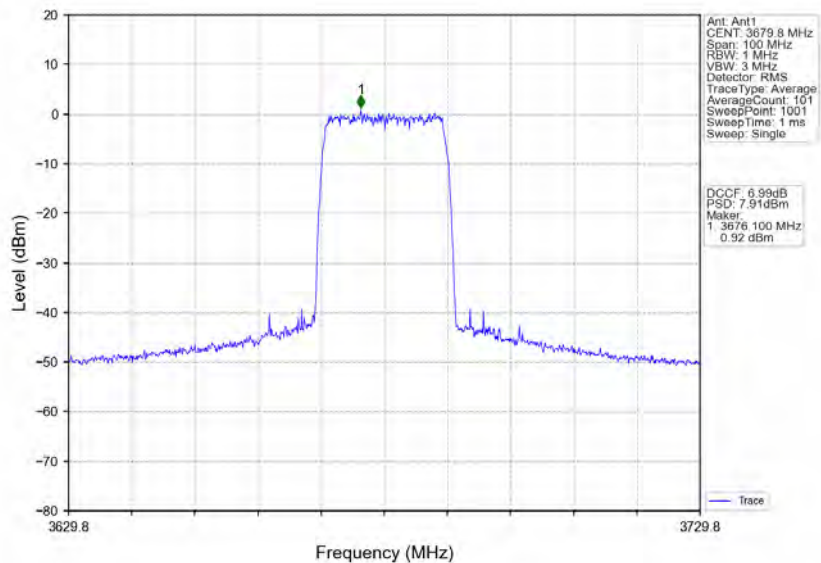
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n78d_30kHz_MIMO_NTNV_40MHz_CP-OFDM 256 QAM_3679.98MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_40MHz_CP-OFDM 256 QAM_3679.98MHz_Inner_Full



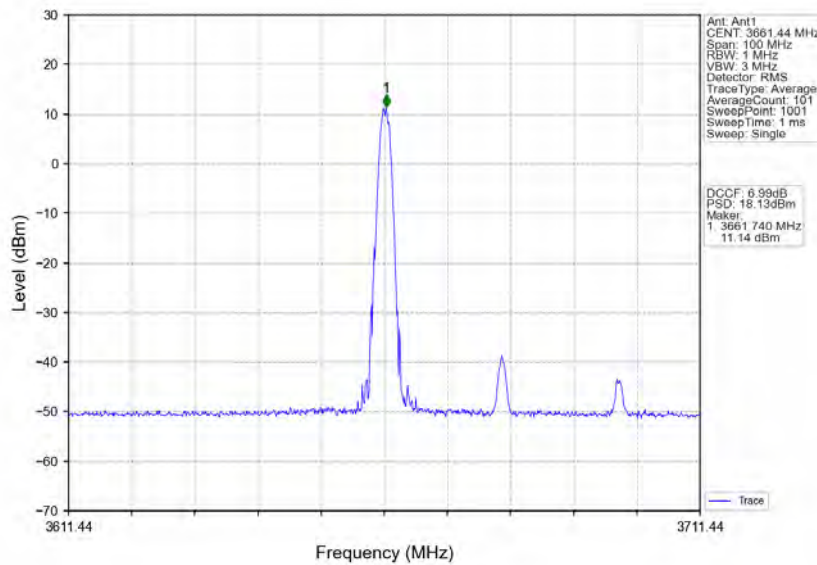
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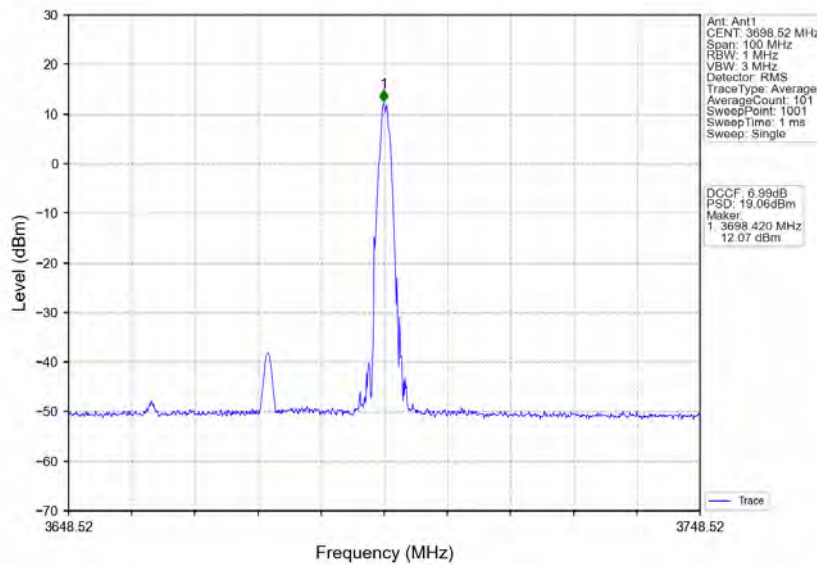
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n78d_30kHz_MIMO_NTNV_40MHz_CP-OFDM 256 QAM_3679.98MHz_Inner_1RB_Left



n78d_30kHz_MIMO_NTNV_40MHz_CP-OFDM 256 QAM_3679.98MHz_Inner_1RB_Right



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2.16 30k_MIMO_50MHz_NTNV_EIRP

2.16.1 Test Result

5G NR n78d SCS=30kHz MIMO 50MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3575.01	Edge_1RB_Left	19.06	18.96	22.02	33.38	33.31	36.36	-	Pass
		Edge_1RB_Right	18.92	18.99	21.97	33.24	33.34	36.30	-	Pass
		Outer_Full	19.00	19.00	22.01	33.32	33.35	36.35	-	Pass
		Inner_Full	19.05	18.98	22.03	33.37	33.33	36.36	-	Pass
		Inner_1RB_Left	18.93	18.95	21.95	33.25	33.30	36.29	-	Pass
		Inner_1RB_Right	19.07	19.00	22.05	33.39	33.35	36.38	-	Pass
	3624.99	Edge_1RB_Left	19.17	19.16	22.18	33.49	33.51	36.51	-	Pass
		Edge_1RB_Right	18.96	18.95	21.97	33.28	33.30	36.30	-	Pass
		Outer_Full	19.19	19.30	22.26	33.51	33.65	36.59	-	Pass
		Inner_Full	19.18	19.18	22.19	33.50	33.53	36.53	-	Pass
		Inner_1RB_Left	19.23	19.12	22.19	33.55	33.47	36.52	-	Pass
		Inner_1RB_Right	18.92	18.88	21.91	33.24	33.23	36.25	-	Pass
	3675	Edge_1RB_Left	18.87	18.81	21.85	33.19	33.16	36.19	-	Pass
		Edge_1RB_Right	18.59	18.48	21.55	32.91	32.83	35.88	-	Pass
		Outer_Full	18.65	18.69	21.68	32.97	33.04	36.02	-	Pass
		Inner_Full	18.65	18.60	21.64	32.97	32.95	35.97	-	Pass
		Inner_1RB_Left	18.94	18.78	21.87	33.26	33.13	36.21	-	Pass
		Inner_1RB_Right	18.57	18.44	21.52	32.89	32.79	35.85	-	Pass
CP-OFDM 16 QAM	3575.01	Edge_1RB_Left	19.16	19.23	22.21	33.48	33.58	36.54	-	Pass
		Edge_1RB_Right	19.10	19.21	22.17	33.42	33.56	36.50	-	Pass
		Outer_Full	19.04	19.00	22.03	33.36	33.35	36.37	-	Pass
		Inner_Full	19.06	19.09	22.09	33.38	33.44	36.42	-	Pass
		Inner_1RB_Left	19.05	19.19	22.13	33.37	33.54	36.47	-	Pass
		Inner_1RB_Right	19.11	19.12	22.13	33.43	33.47	36.46	-	Pass
	3624.99	Edge_1RB_Left	19.32	19.25	22.30	33.64	33.60	36.63	-	Pass
		Edge_1RB_Right	19.09	19.15	22.13	33.41	33.50	36.47	-	Pass
		Outer_Full	19.19	19.19	22.20	33.51	33.54	36.54	-	Pass
		Inner_Full	19.21	19.17	22.20	33.53	33.52	36.54	-	Pass
		Inner_1RB_Left	19.35	19.34	22.36	33.67	33.69	36.69	-	Pass
		Inner_1RB_Right	19.07	19.05	22.07	33.39	33.40	36.41	-	Pass
	3675	Edge_1RB_Left	18.94	18.89	21.93	33.26	33.24	36.26	-	Pass
		Edge_1RB_Right	18.71	18.63	21.68	33.03	32.98	36.02	-	Pass
		Outer_Full	18.70	18.63	21.68	33.02	32.98	36.01	-	Pass
		Inner_Full	18.62	18.62	21.63	32.94	32.97	35.97	-	Pass
		Inner_1RB_Left	18.98	18.98	21.99	33.30	33.33	36.33	-	Pass
		Inner_1RB_Right	18.69	18.62	21.67	33.01	32.97	36.00	-	Pass
CP-OFDM 64 QAM	3575.01	Edge_1RB_Left	19.12	19.09	22.12	33.44	33.44	36.45	-	Pass
		Edge_1RB_Right	19.00	19.15	22.09	33.32	33.50	36.42	-	Pass
		Outer_Full	19.06	19.05	22.07	33.38	33.40	36.40	-	Pass
		Inner_Full	19.02	18.96	22.00	33.34	33.31	36.34	-	Pass
		Inner_1RB_Left	19.15	19.12	22.15	33.47	33.47	36.48	-	Pass
		Inner_1RB_Right	19.02	19.02	22.03	33.34	33.37	36.37	-	Pass
	3624.99	Edge_1RB_Left	19.30	19.20	22.26	33.62	33.55	36.60	-	Pass
		Edge_1RB_Right	19.01	19.09	22.06	33.33	33.44	36.40	-	Pass

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CP-OFDM 256 QAM	3675	Outer_Full	19.13	19.13	22.14	33.45	33.48	36.48	-	Pass	
		Inner_Full	19.20	19.34	22.28	33.52	33.69	36.62	-	Pass	
		Inner_1RB_Left	19.32	19.35	22.35	33.64	33.70	36.68	-	Pass	
		Inner_1RB_Right	19.01	19.03	22.03	33.33	33.38	36.37	-	Pass	
	3675	Edge_1RB_Left	18.97	19.02	22.01	33.29	33.37	36.34	-	Pass	
		Edge_1RB_Right	18.68	18.85	21.78	33.00	33.20	36.11	-	Pass	
		Outer_Full	18.75	18.67	21.72	33.07	33.02	36.06	-	Pass	
		Inner_Full	18.64	18.58	21.62	32.96	32.93	35.96	-	Pass	
	3675.01	3675.01	Inner_1RB_Left	18.99	18.94	21.98	33.31	33.29	36.31	-	Pass
			Inner_1RB_Right	18.79	18.70	21.76	33.11	33.05	36.09	-	Pass
			Edge_1RB_Left	18.97	18.91	21.95	33.29	33.26	36.29	-	Pass
			Edge_1RB_Right	18.87	19.05	21.97	33.19	33.40	36.31	-	Pass
		3624.99	Outer_Full	19.05	19.03	22.05	33.37	33.38	36.39	-	Pass
			Inner_Full	19.10	19.10	22.11	33.42	33.45	36.45	-	Pass
			Inner_1RB_Left	18.97	19.06	22.03	33.29	33.41	36.36	-	Pass
			Inner_1RB_Right	18.90	18.89	21.91	33.22	33.24	36.24	-	Pass
3675		Edge_1RB_Left	19.17	19.14	22.17	33.49	33.49	36.50	-	Pass	
		Edge_1RB_Right	18.93	18.97	21.96	33.25	33.32	36.30	-	Pass	
		Outer_Full	19.19	19.11	22.16	33.51	33.46	36.50	-	Pass	
		Inner_Full	19.32	19.28	22.31	33.64	33.63	36.65	-	Pass	
		Inner_1RB_Left	19.20	19.20	22.21	33.52	33.55	36.55	-	Pass	
		Inner_1RB_Right	18.93	18.89	21.92	33.25	33.24	36.26	-	Pass	
		Edge_1RB_Left	18.72	18.77	21.76	33.04	33.12	36.09	-	Pass	
		Edge_1RB_Right	18.60	18.61	21.62	32.92	32.96	35.95	-	Pass	
3675	Outer_Full	18.73	18.73	21.74	33.05	33.08	36.08	-	Pass		
	Inner_Full	18.72	18.72	21.73	33.04	33.07	36.07	-	Pass		
	Inner_1RB_Left	18.83	18.84	21.85	33.15	33.19	36.18	-	Pass		
	Inner_1RB_Right	18.55	18.62	21.60	32.87	32.97	35.93	-	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

2.17 30k_MIMO_50MHz_NTNV_EIRP/10MHz

2.17.1 Test Result

5G NR n78d SCS=30kHz MIMO 50MHz NTNv										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm/10MHz)			EIRP(dBm/10MHz)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3575.01	Edge_1RB_Left	18.61	17.73	21.20	32.93	32.08	35.54	<=47	Pass
		Edge_1RB_Right	18.00	16.18	20.19	32.32	30.53	34.53	<=47	Pass
		Outer_Full	11.93	12.19	15.07	26.25	26.54	29.41	<=47	Pass
		Inner_Full	14.85	14.29	17.59	29.17	28.64	31.92	<=47	Pass
		Inner_1RB_Left	18.47	17.63	21.08	32.79	31.98	35.41	<=47	Pass
		Inner_1RB_Right	17.79	17.77	20.79	32.11	32.12	35.13	<=47	Pass
	3624.99	Edge_1RB_Left	18.47	19.13	21.82	32.79	33.48	36.16	<=47	Pass
		Edge_1RB_Right	17.29	16.89	20.10	31.61	31.24	34.44	<=47	Pass
		Outer_Full	11.23	12.01	14.65	25.55	26.36	28.98	<=47	Pass
		Inner_Full	15.08	15.51	18.31	29.40	29.86	32.65	<=47	Pass
		Inner_1RB_Left	18.04	19.04	21.58	32.36	33.39	35.92	<=47	Pass
		Inner_1RB_Right	17.58	18.07	20.84	31.90	32.42	35.18	<=47	Pass
	3675	Edge_1RB_Left	18.65	17.78	21.25	32.97	32.13	35.58	<=47	Pass



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		Edge_1RB_Right	18.21	15.69	20.14	32.53	30.04	34.47	<=47	Pass
		Outer_Full	10.39	11.40	13.93	24.71	25.75	28.27	<=47	Pass
		Inner_Full	13.17	13.83	16.52	27.49	28.18	30.86	<=47	Pass
		Inner_1RB_Left	16.24	17.14	19.72	30.56	31.49	34.06	<=47	Pass
		Inner_1RB_Right	17.59	17.82	20.72	31.91	32.17	35.05	<=47	Pass
CP-OFDM 16 QAM	3575.01	Edge_1RB_Left	18.70	17.92	21.34	33.02	32.27	35.67	<=47	Pass
		Edge_1RB_Right	17.86	17.45	20.67	32.18	31.80	35.00	<=47	Pass
		Outer_Full	12.01	11.65	14.84	26.33	26.00	29.18	<=47	Pass
		Inner_Full	14.77	14.69	17.74	29.09	29.04	32.08	<=47	Pass
		Inner_1RB_Left	18.59	19.13	21.88	32.91	33.48	36.21	<=47	Pass
	3624.99	Inner_1RB_Right	19.23	18.30	21.80	33.55	32.65	36.13	<=47	Pass
		Edge_1RB_Left	19.23	18.31	21.80	33.55	32.66	36.14	<=47	Pass
		Edge_1RB_Right	18.08	14.93	19.79	32.40	29.28	34.12	<=47	Pass
		Outer_Full	10.51	11.34	13.96	24.83	25.69	28.29	<=47	Pass
		Inner_Full	14.74	14.58	17.67	29.06	28.93	32.01	<=47	Pass
	3675	Inner_1RB_Left	17.62	15.99	19.89	31.94	30.34	34.22	<=47	Pass
		Inner_1RB_Right	18.37	19.45	21.95	32.69	33.80	36.29	<=47	Pass
		Edge_1RB_Left	16.57	17.55	20.10	30.89	31.90	34.43	<=47	Pass
		Edge_1RB_Right	17.62	19.44	21.63	31.94	33.79	35.97	<=47	Pass
		Outer_Full	10.08	9.92	13.01	24.40	24.27	27.35	<=47	Pass
CP-OFDM 64 QAM	3575.01	Inner_Full	12.91	15.21	17.22	27.23	29.56	31.56	<=47	Pass
		Inner_1RB_Left	17.23	18.52	20.93	31.55	32.87	35.27	<=47	Pass
		Inner_1RB_Right	18.08	18.39	21.25	32.40	32.74	35.58	<=47	Pass
		Edge_1RB_Left	18.26	19.24	21.79	32.58	33.59	36.12	<=47	Pass
		Edge_1RB_Right	17.82	19.08	21.51	32.14	33.43	35.84	<=47	Pass
	3624.99	Outer_Full	10.67	10.11	13.41	24.99	24.46	27.74	<=47	Pass
		Inner_Full	14.54	15.69	18.16	28.86	30.04	32.50	<=47	Pass
		Inner_1RB_Left	18.68	19.38	22.05	33.00	33.73	36.39	<=47	Pass
		Inner_1RB_Right	18.80	19.65	22.26	33.12	34.00	36.59	<=47	Pass
		Edge_1RB_Left	18.44	17.94	21.21	32.76	32.29	35.54	<=47	Pass
	3675	Edge_1RB_Right	18.07	18.16	21.13	32.39	32.51	35.46	<=47	Pass
		Outer_Full	12.03	11.09	14.60	26.35	25.44	28.93	<=47	Pass
		Inner_Full	14.19	15.77	18.06	28.51	30.12	32.40	<=47	Pass
		Inner_1RB_Left	18.46	17.71	21.11	32.78	32.06	35.45	<=47	Pass
		Inner_1RB_Right	18.03	16.94	20.53	32.35	31.29	34.86	<=47	Pass
CP-OFDM 256 QAM	3575.01	Edge_1RB_Left	18.44	16.17	20.46	32.76	30.52	34.79	<=47	Pass
		Edge_1RB_Right	17.68	17.98	20.84	32.00	32.33	35.18	<=47	Pass
		Outer_Full	10.25	9.75	13.02	24.57	24.10	27.35	<=47	Pass
		Inner_Full	13.86	12.14	16.09	28.18	26.49	30.43	<=47	Pass
		Inner_1RB_Left	16.26	18.11	20.29	30.58	32.46	34.63	<=47	Pass
	3624.99	Inner_1RB_Right	17.94	18.74	21.37	32.26	33.09	35.71	<=47	Pass
		Edge_1RB_Left	17.99	18.58	21.31	32.31	32.93	35.64	<=47	Pass
		Edge_1RB_Right	18.78	19.47	22.15	33.10	33.82	36.49	<=47	Pass
		Outer_Full	11.78	9.75	13.89	26.10	24.10	28.22	<=47	Pass
		Inner_Full	14.53	14.20	17.38	28.85	28.55	31.71	<=47	Pass
	3675	Inner_1RB_Left	18.52	18.03	21.29	32.84	32.38	35.63	<=47	Pass
		Inner_1RB_Right	19.12	17.86	21.55	33.44	32.21	35.88	<=47	Pass
		Edge_1RB_Left	18.73	18.95	21.85	33.05	33.30	36.19	<=47	Pass
		Edge_1RB_Right	17.41	17.37	20.40	31.73	31.72	34.74	<=47	Pass
		Outer_Full	10.67	10.93	13.81	24.99	25.28	28.15	<=47	Pass
		Inner_Full	14.31	14.38	17.36	28.63	28.73	31.69	<=47	Pass
		Inner_1RB_Left	19.33	19.61	22.48	33.65	33.96	36.82	<=47	Pass
		Inner_1RB_Right	17.04	19.42	21.40	31.36	33.77	35.74	<=47	Pass
		Edge_1RB_Left	17.52	17.52	20.53	31.84	31.87	34.87	<=47	Pass
		Edge_1RB_Right	17.52	17.52	20.53	31.84	31.87	34.87	<=47	Pass

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	Edge_1RB_Right	17.62	15.87	19.84	31.94	30.22	34.17	<=47	Pass
	Outer_Full	11.41	10.68	14.07	25.73	25.03	28.40	<=47	Pass
	Inner_Full	13.65	14.42	17.06	27.97	28.77	31.40	<=47	Pass
	Inner_1RB_Left	17.05	18.10	20.62	31.37	32.45	34.95	<=47	Pass
	Inner_1RB_Right	17.61	19.59	21.72	31.93	33.94	36.06	<=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

2.18 30k_MIMO_50MHz_NTNV_PSD

2.18.1 Test Result

5G NR n78d SCS=30kHz MIMO 50MHz 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	3575.01	Edge_1RB_Left	18.46	16.86	20.74	32.78	31.21	35.08	<=37	Pass
		Edge_1RB_Right	18.46	18.31	21.40	32.78	32.66	35.73	<=37	Pass
		Outer_Full	3.97	4.87	7.45	18.29	19.22	21.79	<=37	Pass
		Inner_Full	5.92	5.95	8.95	20.24	20.30	23.28	<=37	Pass
		Inner_1RB_Left	17.82	18.14	20.99	32.14	32.49	35.33	<=37	Pass
	3624.99	Inner_1RB_Right	18.80	19.06	21.94	33.12	33.41	36.28	<=37	Pass
		Edge_1RB_Left	19.43	18.84	22.16	33.75	33.19	36.49	<=37	Pass
		Edge_1RB_Right	18.10	18.80	21.47	32.42	33.15	35.81	<=37	Pass
		Outer_Full	4.13	4.49	7.32	18.45	18.84	21.66	<=37	Pass
		Inner_Full	6.04	6.16	9.11	20.36	20.51	23.45	<=37	Pass
	3675	Inner_1RB_Left	18.13	19.07	21.64	32.45	33.42	35.97	<=37	Pass
		Inner_1RB_Right	18.95	19.03	22.00	33.27	33.38	36.34	<=37	Pass
		Edge_1RB_Left	17.93	17.78	20.87	32.25	32.13	35.20	<=37	Pass
		Edge_1RB_Right	18.22	16.89	20.62	32.54	31.24	34.95	<=37	Pass
		Outer_Full	2.89	3.99	6.49	17.21	18.34	20.82	<=37	Pass
CP-OFDM 16 QAM	3575.01	Inner_Full	6.04	6.27	9.17	20.36	20.62	23.50	<=37	Pass
		Inner_1RB_Left	18.15	18.65	21.42	32.47	33.00	35.75	<=37	Pass
		Inner_1RB_Right	18.50	19.08	21.81	32.82	33.43	36.15	<=37	Pass
		Edge_1RB_Left	18.98	19.72	22.38	33.30	34.07	36.71	<=37	Pass
		Edge_1RB_Right	19.16	18.98	22.08	33.48	33.33	36.42	<=37	Pass
	3624.99	Outer_Full	3.28	4.69	7.05	17.60	19.04	21.39	<=37	Pass
		Inner_Full	7.01	8.33	10.73	21.33	22.68	25.07	<=37	Pass
		Inner_1RB_Left	18.87	18.14	21.53	33.19	32.49	35.86	<=37	Pass
		Inner_1RB_Right	19.23	18.53	21.90	33.55	32.88	36.24	<=37	Pass
		Edge_1RB_Left	19.69	18.64	22.21	34.01	32.99	36.54	<=37	Pass
	3675	Edge_1RB_Right	18.25	18.81	21.55	32.57	33.16	35.89	<=37	Pass
		Outer_Full	3.76	3.29	6.54	18.08	17.64	20.88	<=37	Pass
		Inner_Full	5.92	7.72	9.92	20.24	22.07	24.26	<=37	Pass
		Inner_1RB_Left	17.86	19.32	21.66	32.18	33.67	36.00	<=37	Pass
		Inner_1RB_Right	18.93	15.97	20.71	33.25	30.32	35.04	<=37	Pass
3675	Edge_1RB_Left	19.10	18.67	21.90	33.42	33.02	36.23	<=37	Pass	
	Edge_1RB_Right	18.86	18.93	21.91	33.18	33.28	36.24	<=37	Pass	
	Outer_Full	2.30	2.71	5.52	16.62	17.06	19.86	<=37	Pass	
	Inner_Full	5.57	6.54	9.09	19.89	20.89	23.43	<=37	Pass	
	Inner_1RB_Left	17.85	16.42	20.20	32.17	30.77	34.54	<=37	Pass	
	Inner_1RB_Right	18.17	17.59	20.90	32.49	31.94	35.23	<=37	Pass	



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CP-OFDM 64 QAM	3575.01	Edge_1RB_Left	18.87	18.37	21.64	33.19	32.72	35.97	<=37	Pass
		Edge_1RB_Right	18.78	19.41	22.12	33.10	33.76	36.45	<=37	Pass
		Outer_Full	3.89	4.13	7.02	18.21	18.48	21.36	<=37	Pass
		Inner_Full	6.14	7.18	9.70	20.46	21.53	24.04	<=37	Pass
		Inner_1RB_Left	17.17	17.97	20.60	31.49	32.32	34.94	<=37	Pass
	3624.99	Inner_1RB_Right	18.57	18.47	21.53	32.89	32.82	35.87	<=37	Pass
		Edge_1RB_Left	17.89	18.58	21.26	32.21	32.93	35.60	<=37	Pass
		Edge_1RB_Right	18.40	17.85	21.14	32.72	32.20	35.48	<=37	Pass
		Outer_Full	3.29	4.75	7.09	17.61	19.10	21.43	<=37	Pass
		Inner_Full	5.26	5.39	8.34	19.58	19.74	22.67	<=37	Pass
	3675	Inner_1RB_Left	18.67	19.16	21.93	32.99	33.51	36.27	<=37	Pass
		Inner_1RB_Right	18.20	18.61	21.42	32.52	32.96	35.76	<=37	Pass
		Edge_1RB_Left	17.73	20.36	22.25	32.05	34.71	36.59	<=37	Pass
		Edge_1RB_Right	16.21	14.32	18.38	30.53	28.67	32.71	<=37	Pass
		Outer_Full	2.03	3.30	5.72	16.35	17.65	20.06	<=37	Pass
CP-OFDM 256 QAM	3575.01	Inner_Full	5.72	6.26	9.01	20.04	20.61	23.34	<=37	Pass
		Inner_1RB_Left	17.59	16.53	20.10	31.91	30.88	34.44	<=37	Pass
		Inner_1RB_Right	17.81	19.00	21.46	32.13	33.35	35.79	<=37	Pass
		Edge_1RB_Left	18.68	16.86	20.87	33.00	31.21	35.21	<=37	Pass
		Edge_1RB_Right	18.52	17.74	21.16	32.84	32.09	35.49	<=37	Pass
	3624.99	Outer_Full	3.34	4.54	6.99	17.66	18.89	21.33	<=37	Pass
		Inner_Full	6.02	7.16	9.64	20.34	21.51	23.97	<=37	Pass
		Inner_1RB_Left	18.83	18.43	21.64	33.15	32.78	35.98	<=37	Pass
		Inner_1RB_Right	18.74	18.68	21.72	33.06	33.03	36.06	<=37	Pass
		Edge_1RB_Left	18.14	18.97	21.59	32.46	33.32	35.92	<=37	Pass
	3675	Edge_1RB_Right	18.08	17.39	20.76	32.40	31.74	35.09	<=37	Pass
		Outer_Full	3.44	4.58	7.06	17.76	18.93	21.39	<=37	Pass
		Inner_Full	5.52	6.05	8.80	19.84	20.40	23.14	<=37	Pass
		Inner_1RB_Left	17.67	19.09	21.45	31.99	33.44	35.79	<=37	Pass
		Inner_1RB_Right	17.56	18.05	20.82	31.88	32.40	35.16	<=37	Pass
3675	Edge_1RB_Left	18.28	17.41	20.88	32.60	31.76	35.21	<=37	Pass	
	Edge_1RB_Right	17.92	18.04	20.99	32.24	32.39	35.33	<=37	Pass	
	Outer_Full	1.99	3.44	5.79	16.31	17.79	20.12	<=37	Pass	
	Inner_Full	5.53	6.87	9.26	19.85	21.22	23.60	<=37	Pass	
	Inner_1RB_Left	16.80	18.38	20.67	31.12	32.73	35.01	<=37	Pass	
		Inner_1RB_Right	17.60	18.27	20.96	31.92	32.62	35.29	<=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



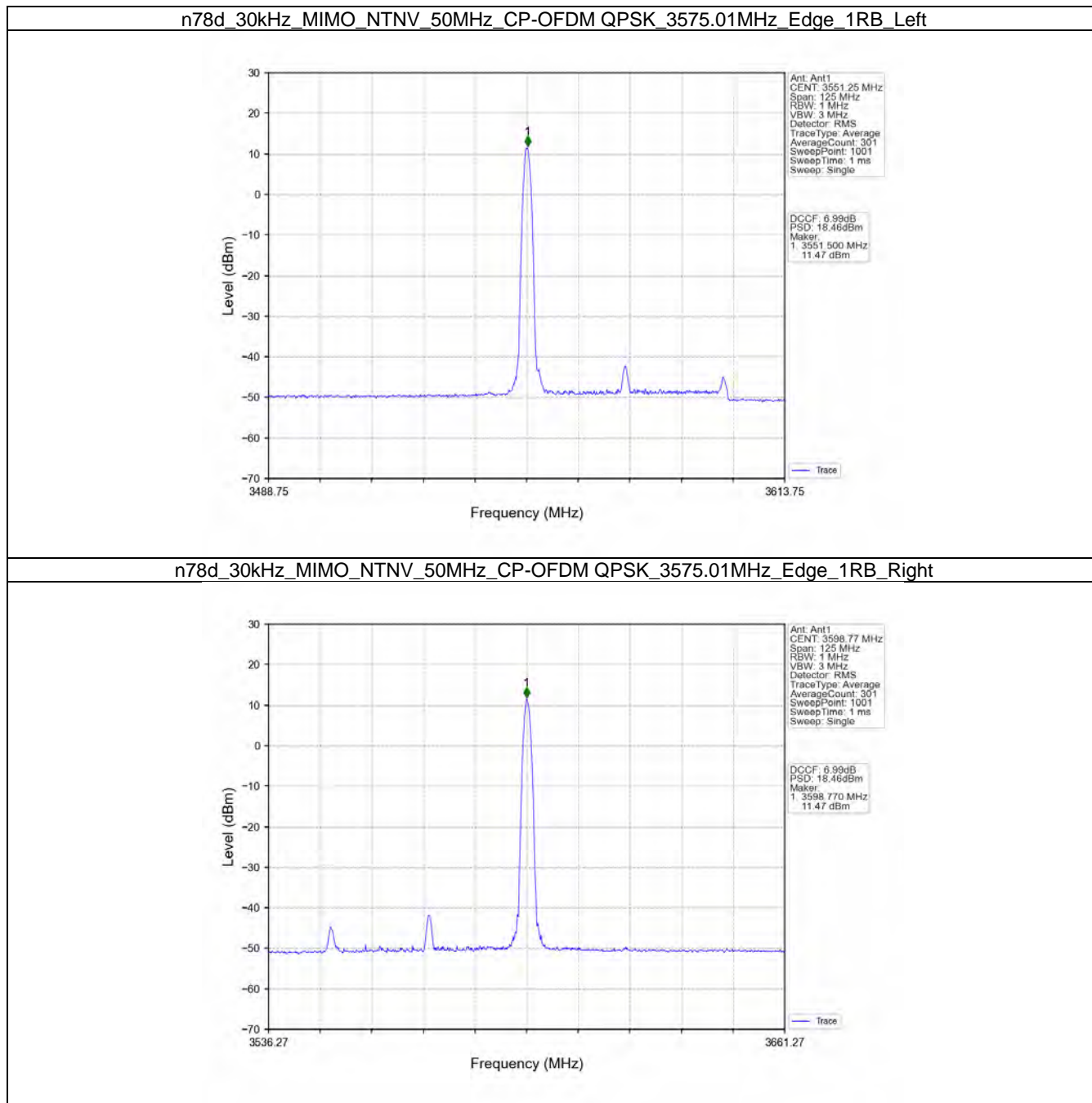
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2.18.2 Test Graph for ANT1



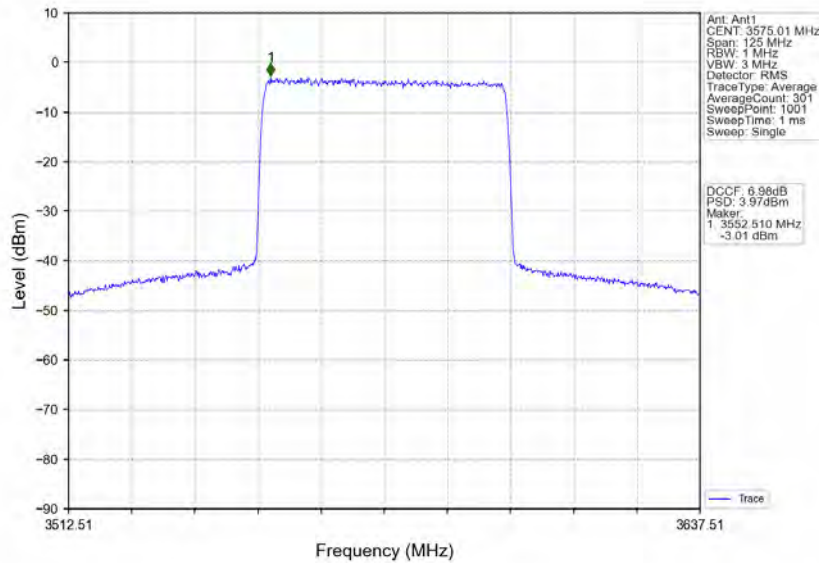
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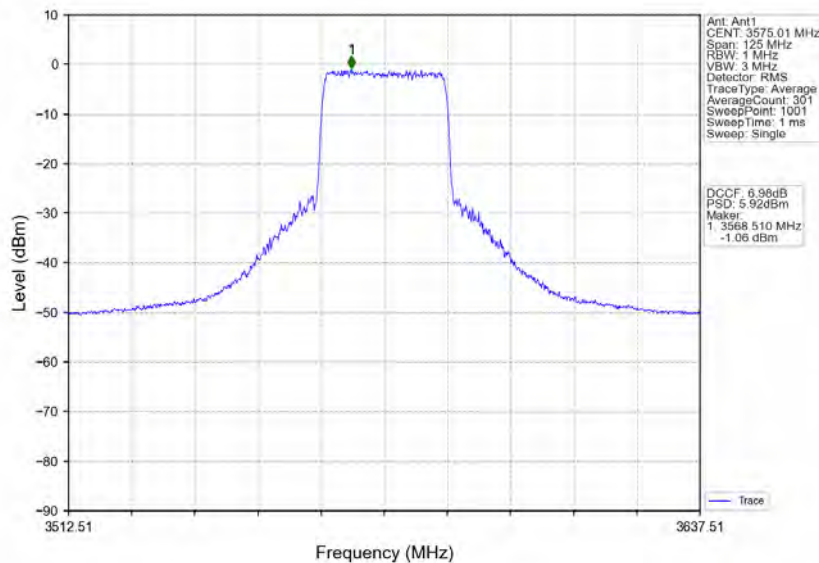
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n78d_30kHz_MIMO_NTNV_50MHz_CP-OFDM QPSK_3575.01MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_50MHz_CP-OFDM QPSK_3575.01MHz_Inner_Full



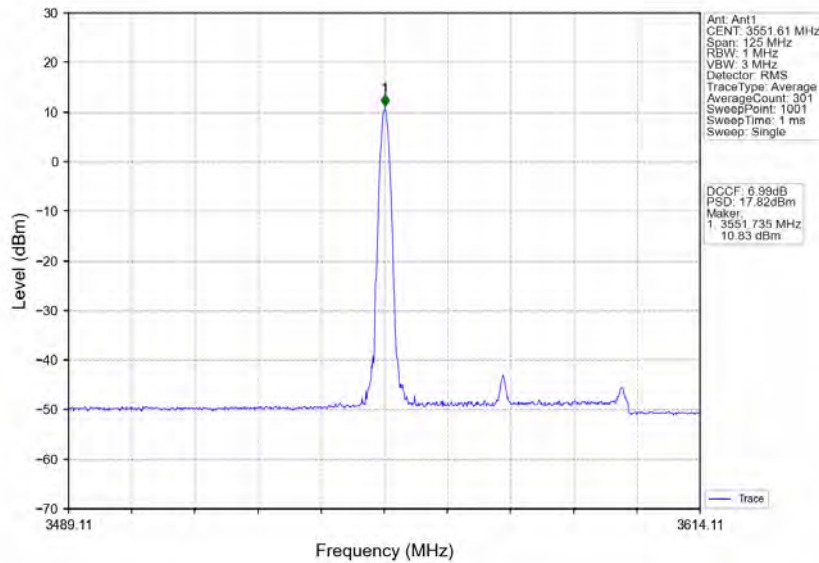
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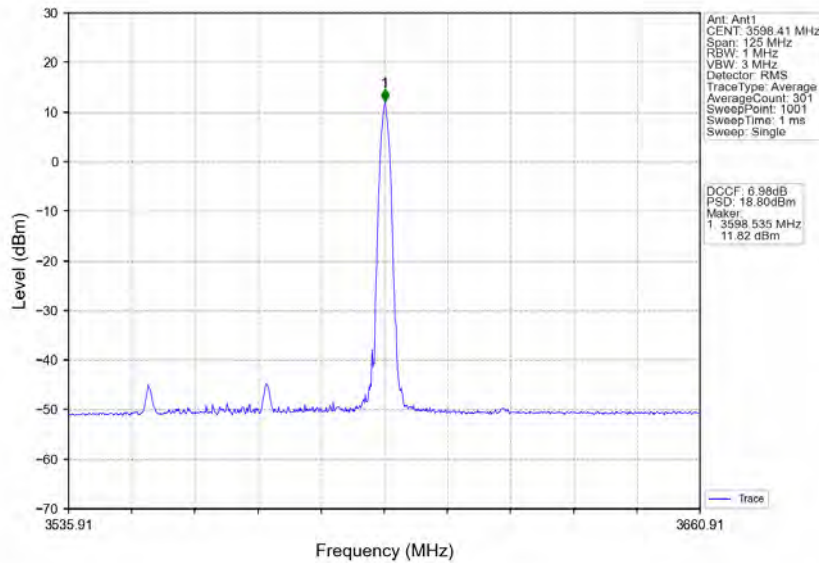
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n78d_30kHz_MIMO_NTNV_50MHz_CP-OFDM QPSK_3575.01MHz_Inner_1RB_Left



n78d_30kHz_MIMO_NTNV_50MHz_CP-OFDM QPSK_3575.01MHz_Inner_1RB_Right



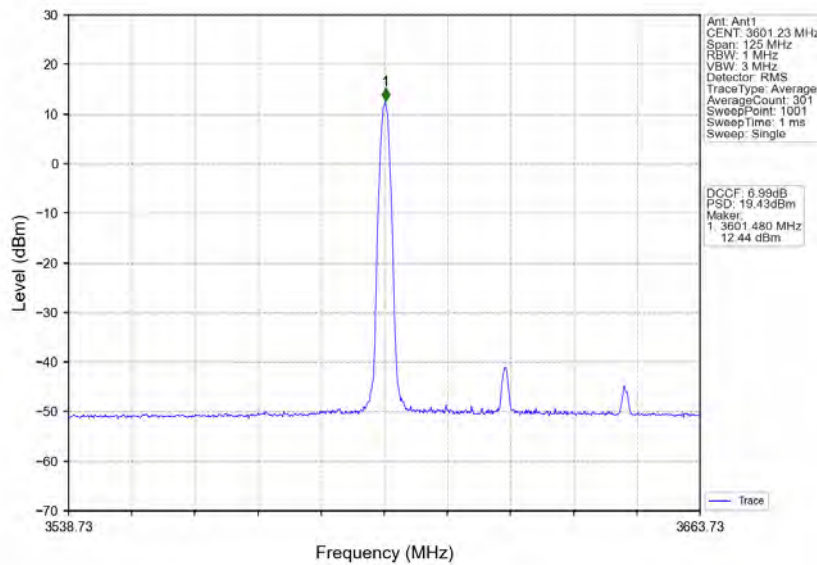
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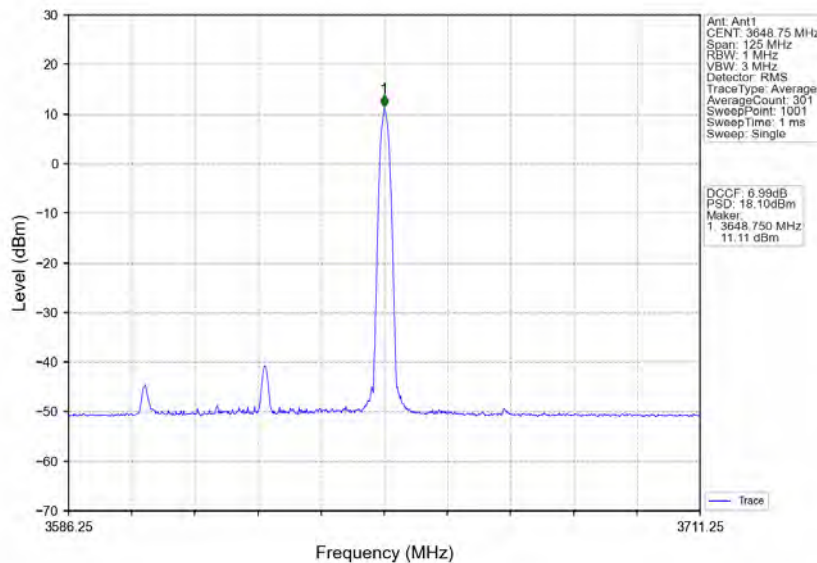
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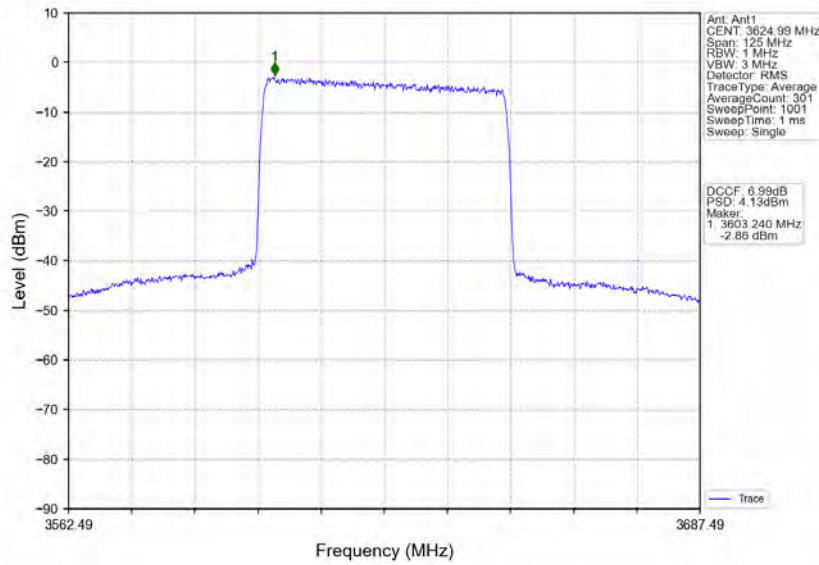
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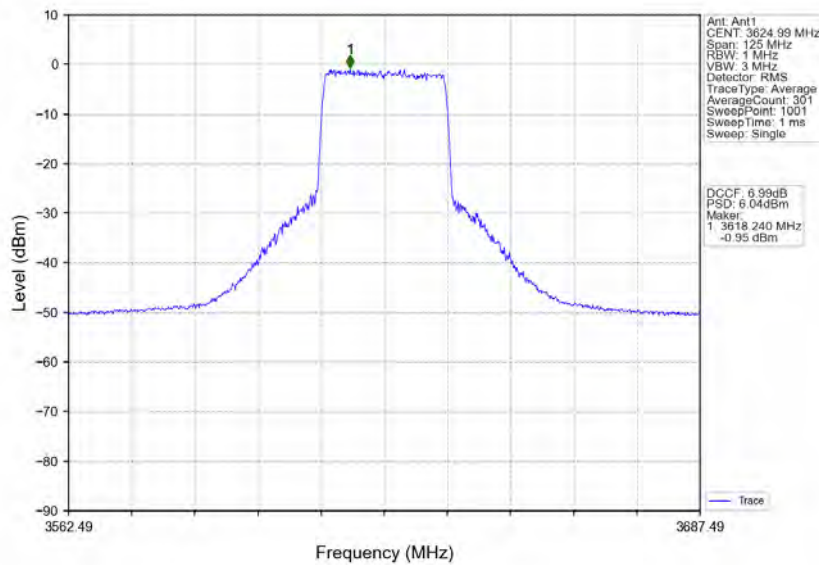
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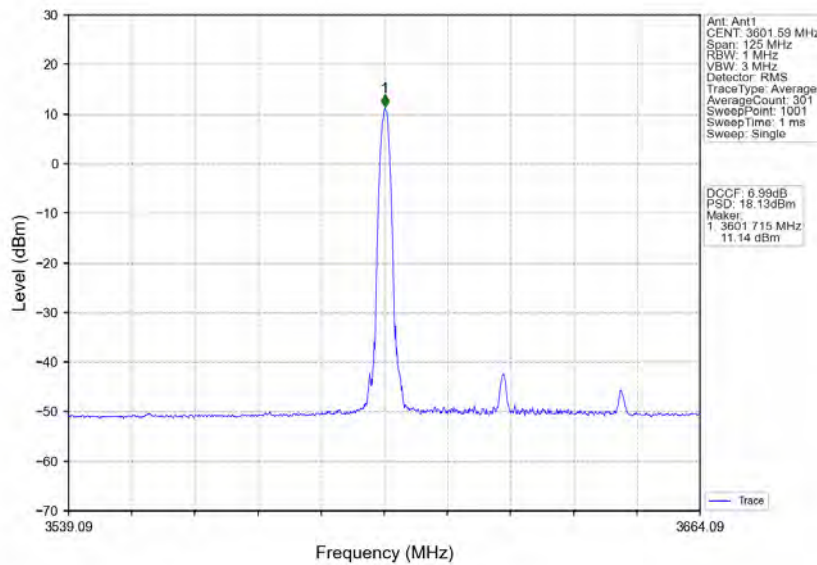
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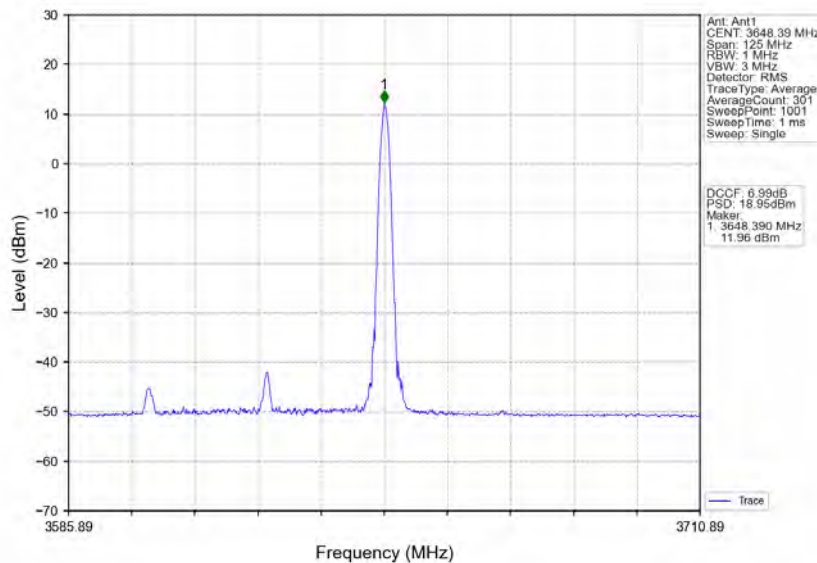
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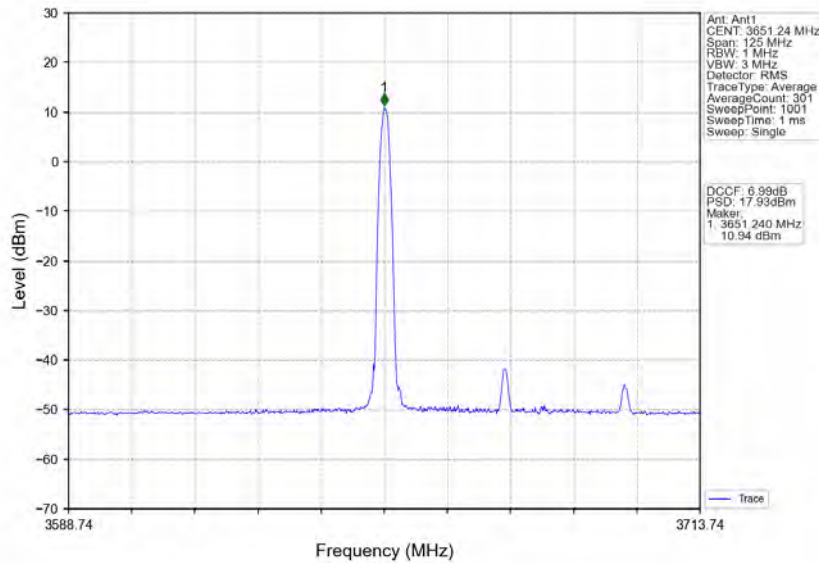
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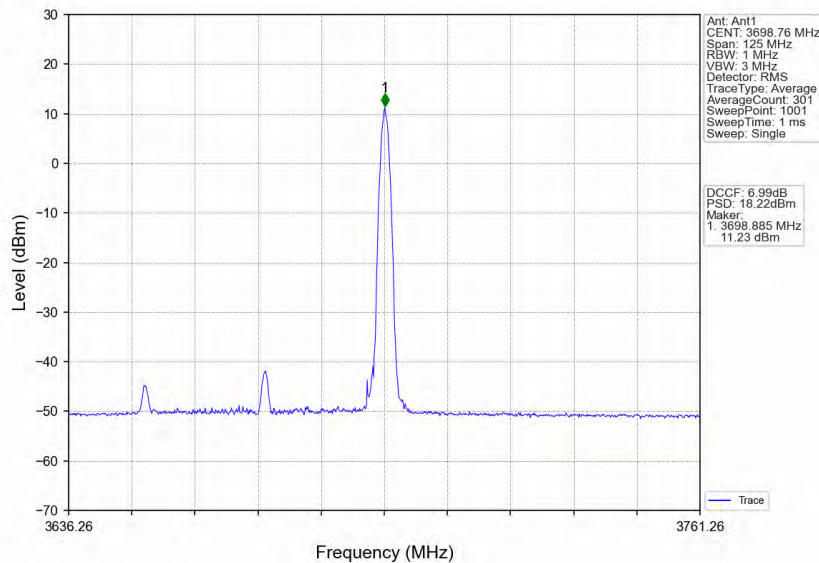
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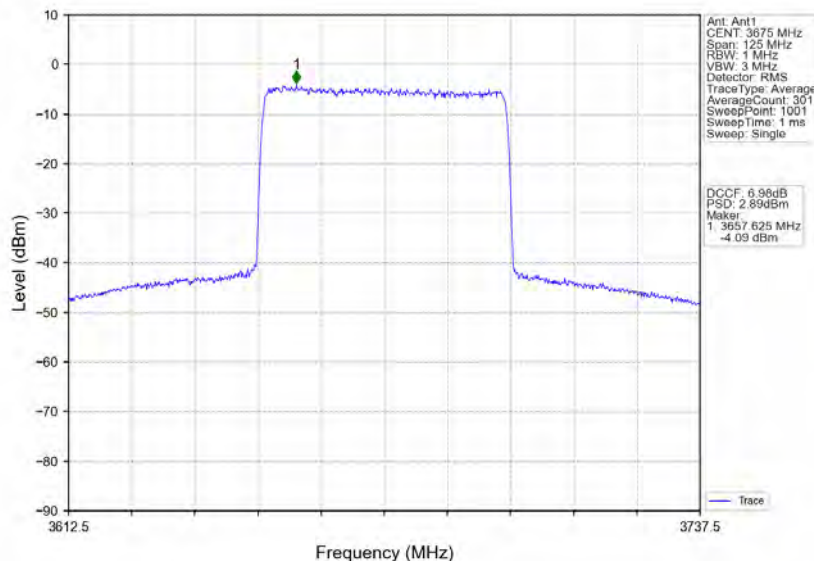
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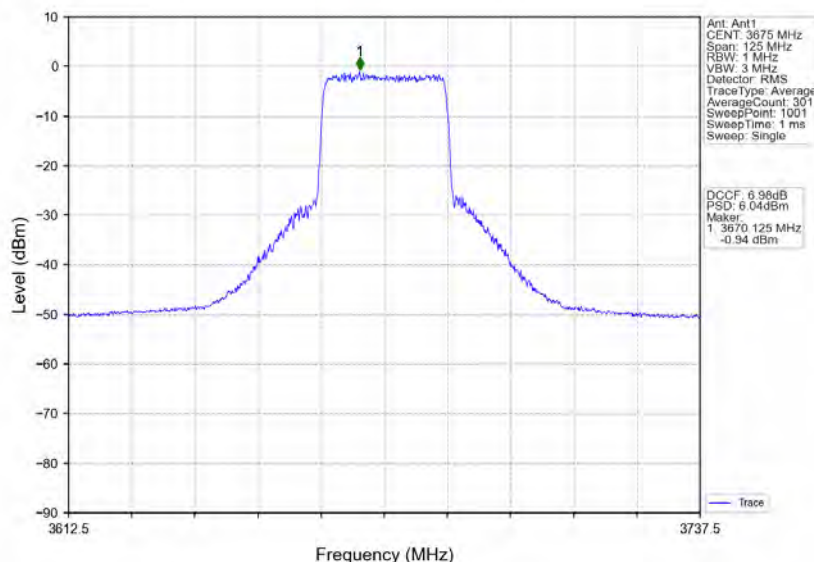
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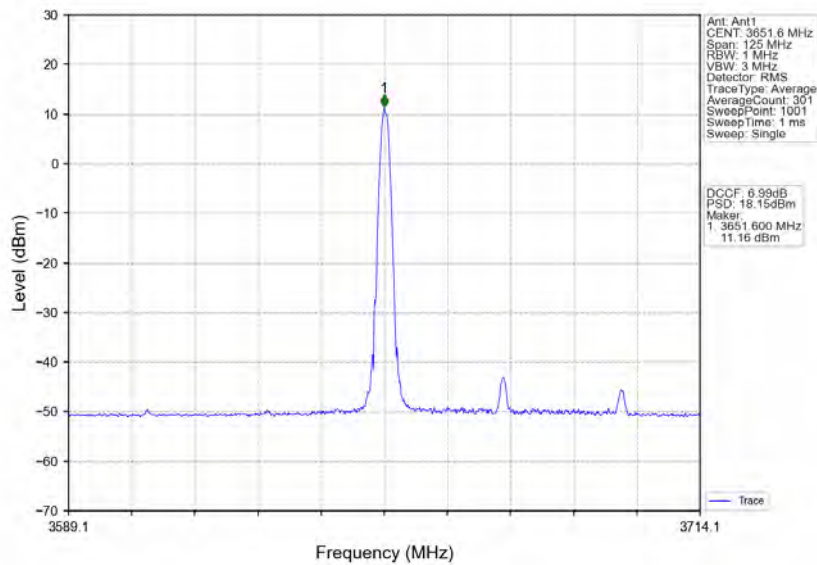
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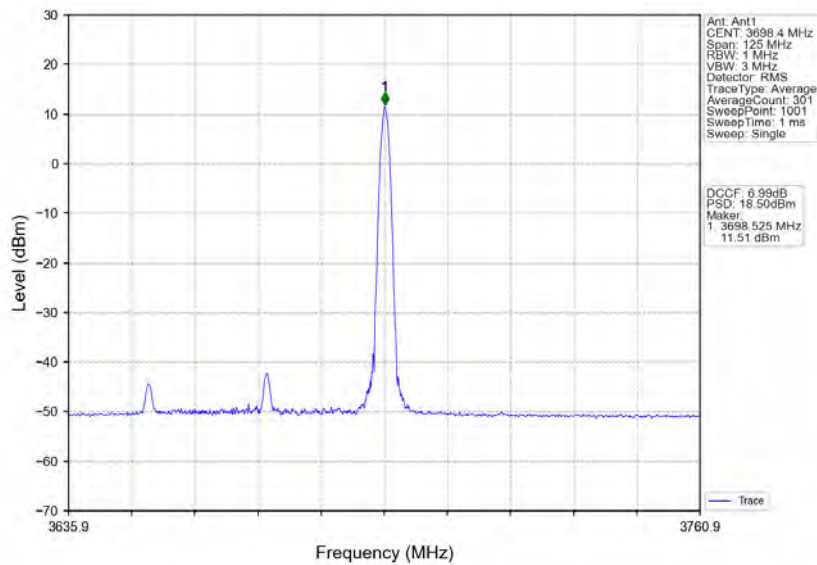
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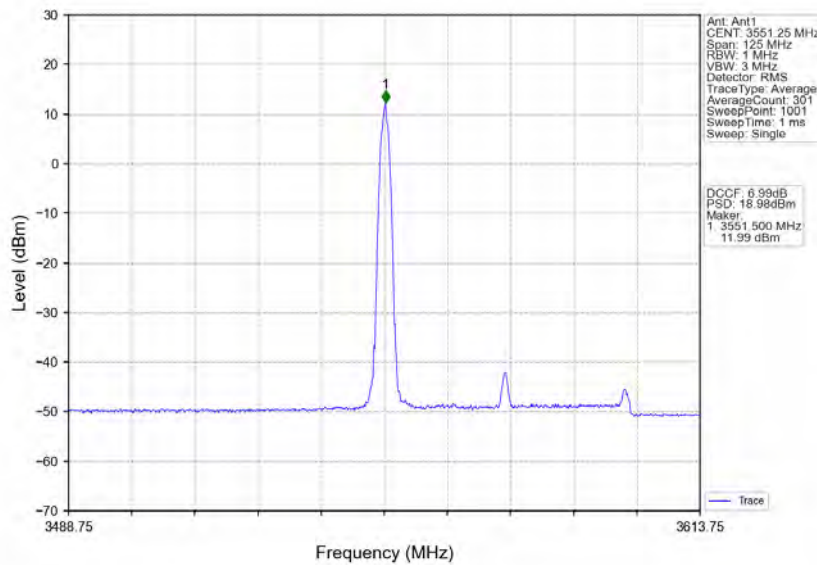
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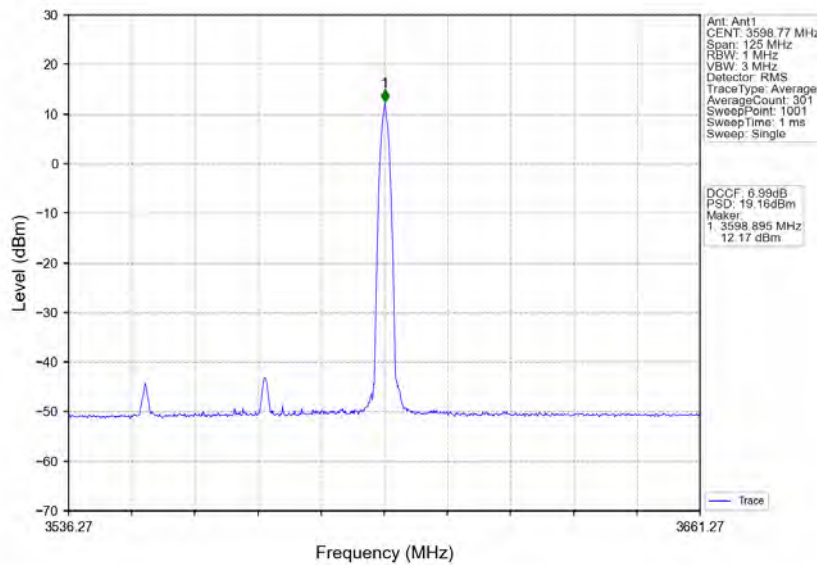
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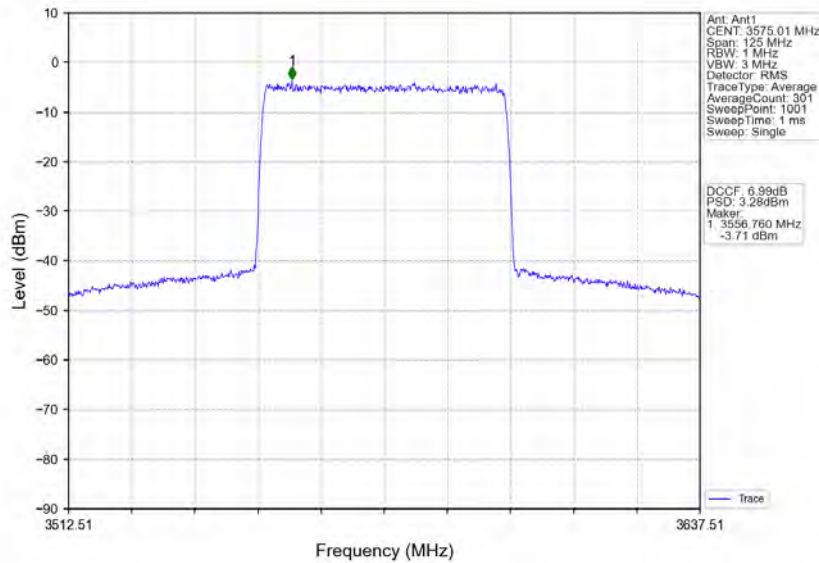
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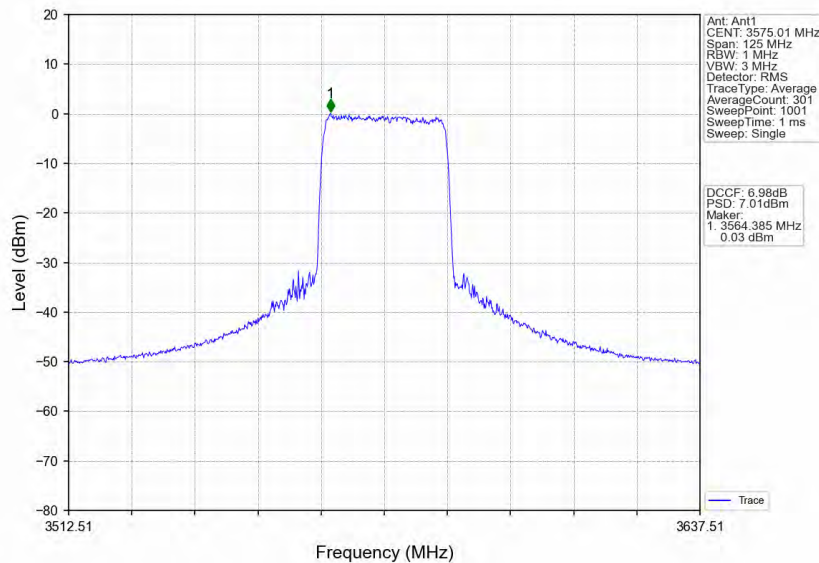
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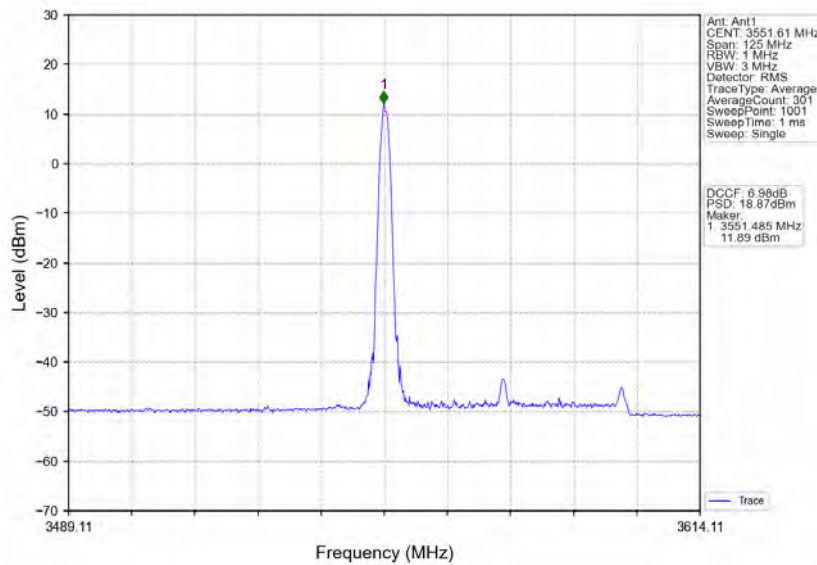
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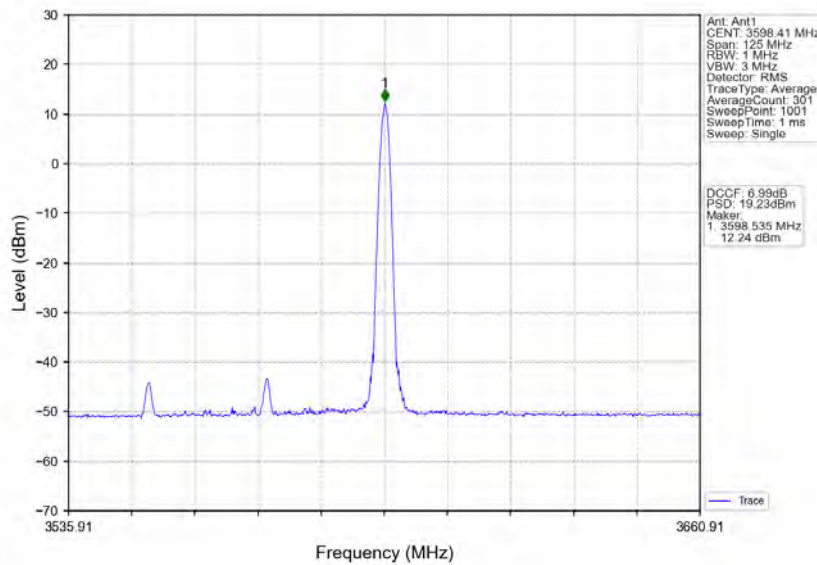
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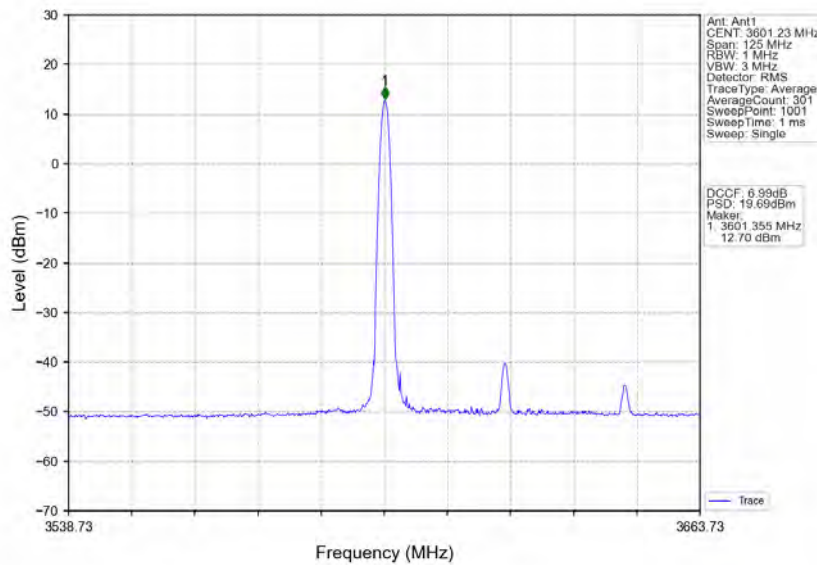
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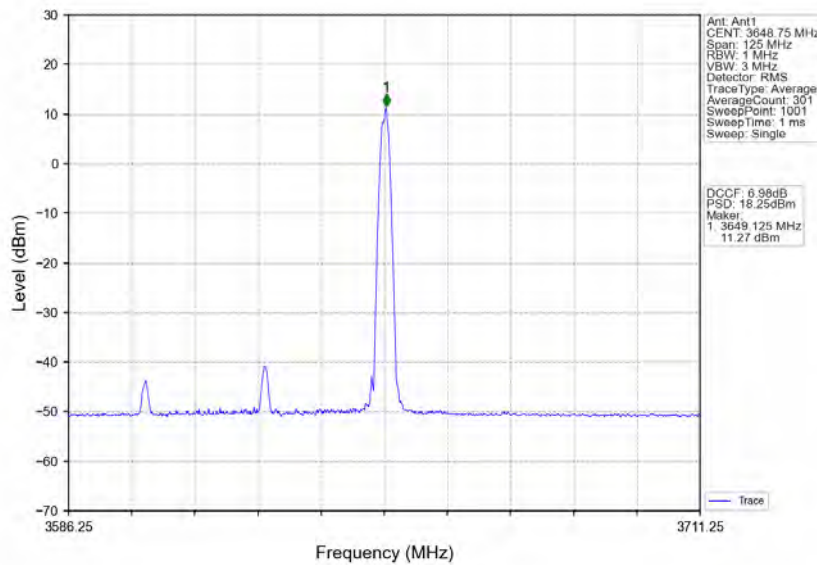
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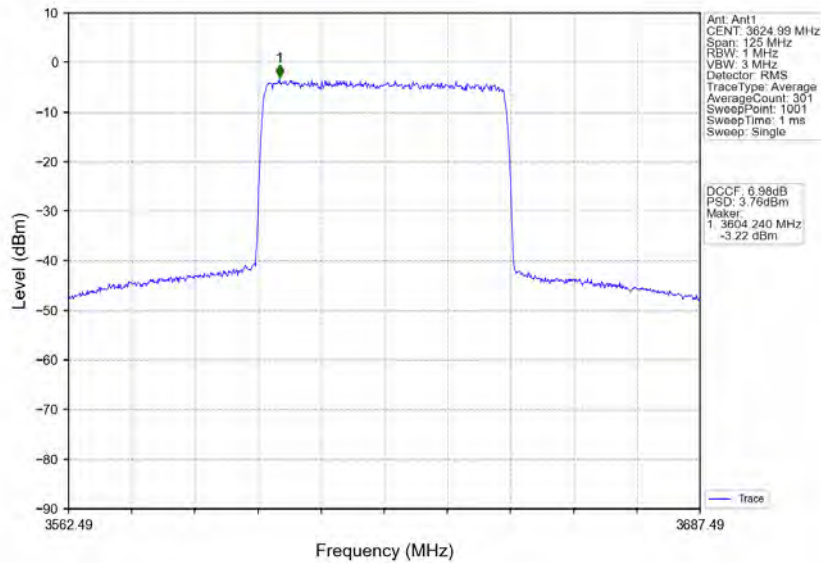
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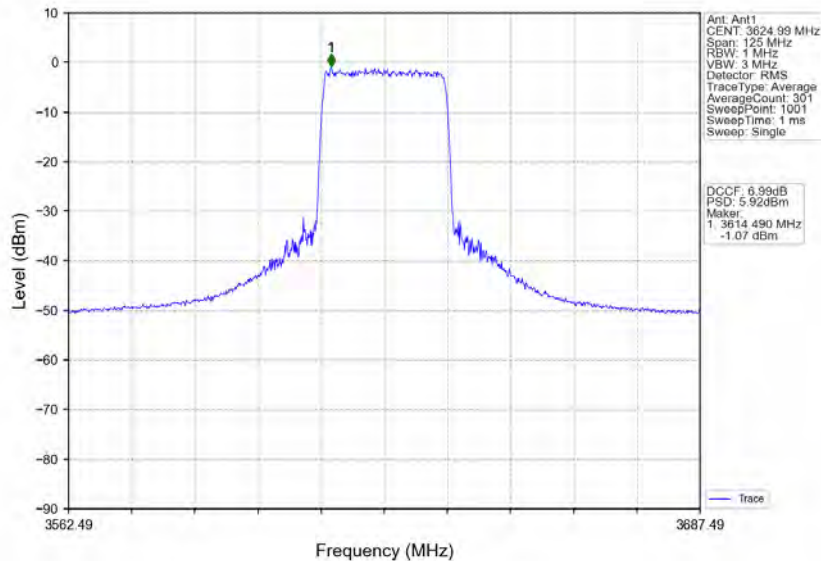
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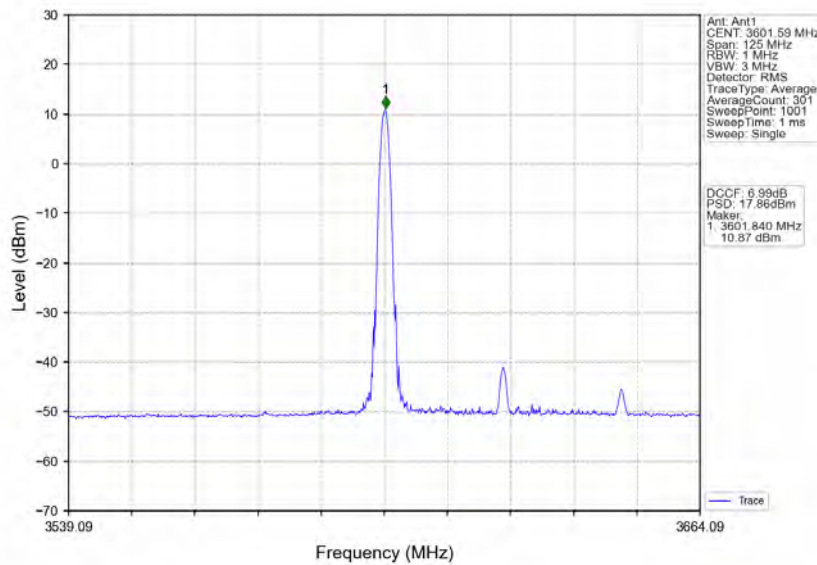
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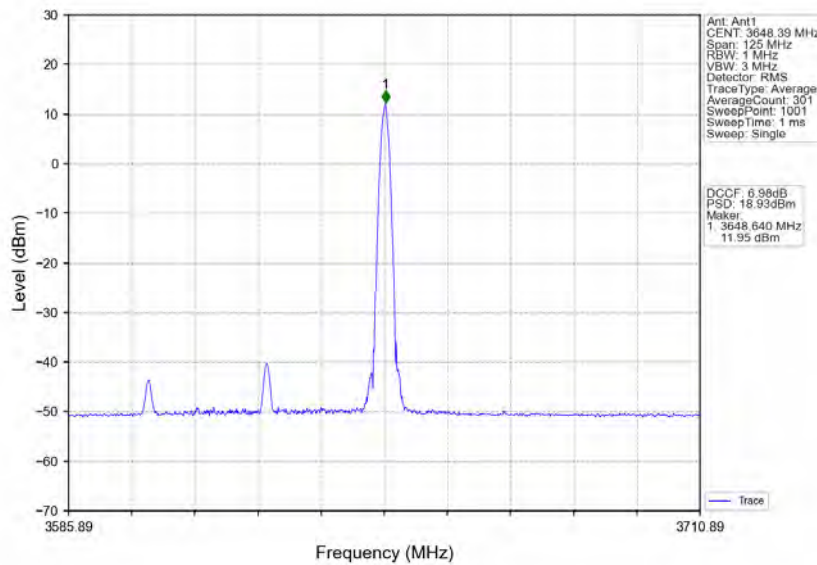
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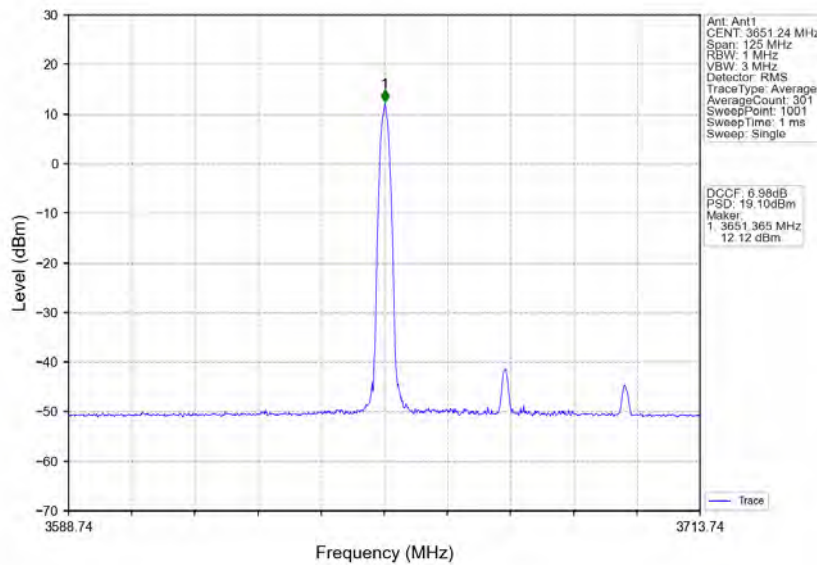
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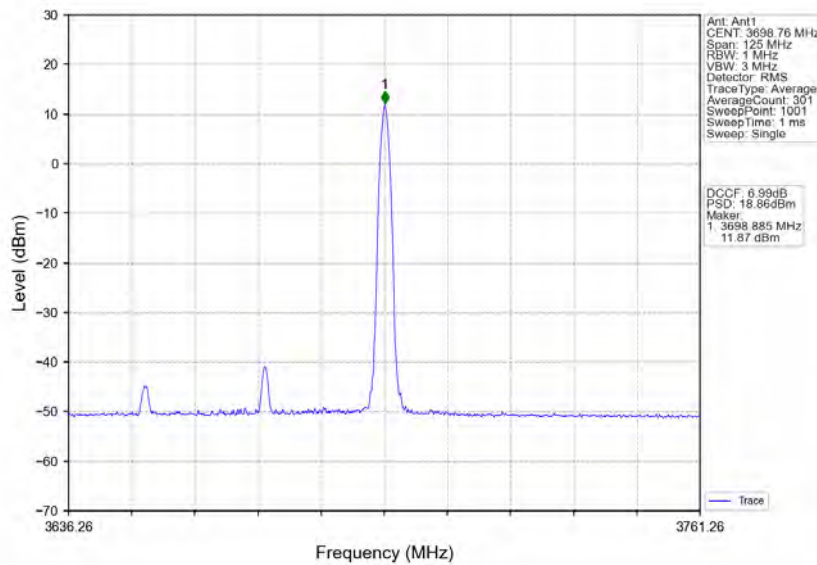
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n78d_30kHz_MIMO_NTNV_50MHz_CP-OFDM 16 QAM_3675MHz_Edge_1RB_Left



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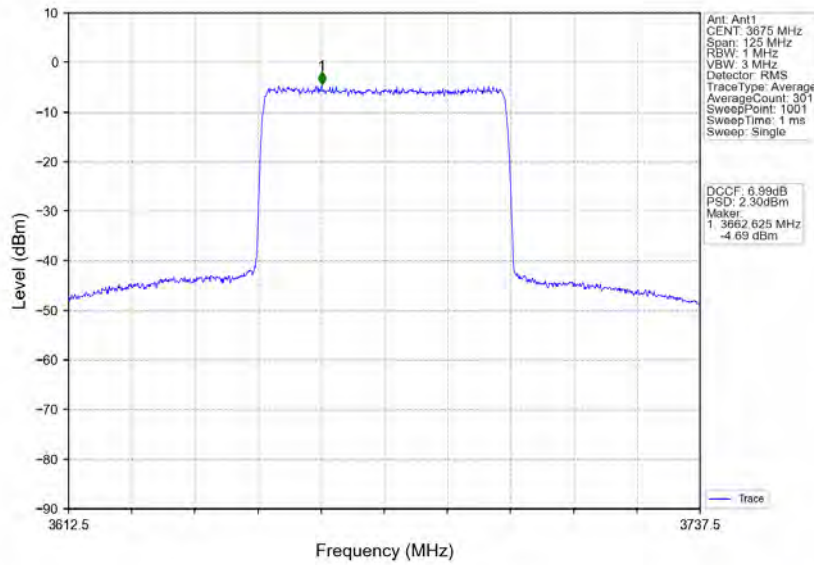
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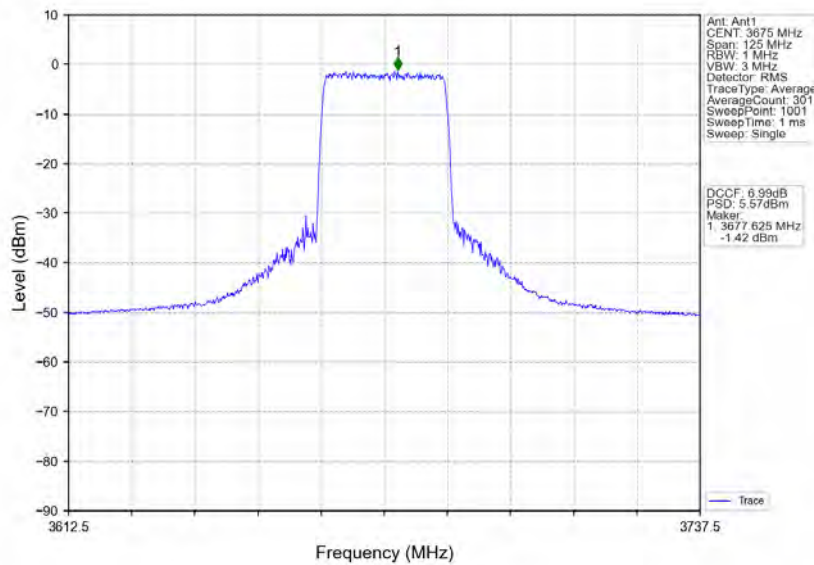
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n78d_30kHz_MIMO_NTNV_50MHz_CP-OFDM 16 QAM_3675MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_50MHz_CP-OFDM 16 QAM_3675MHz_Inner_Full



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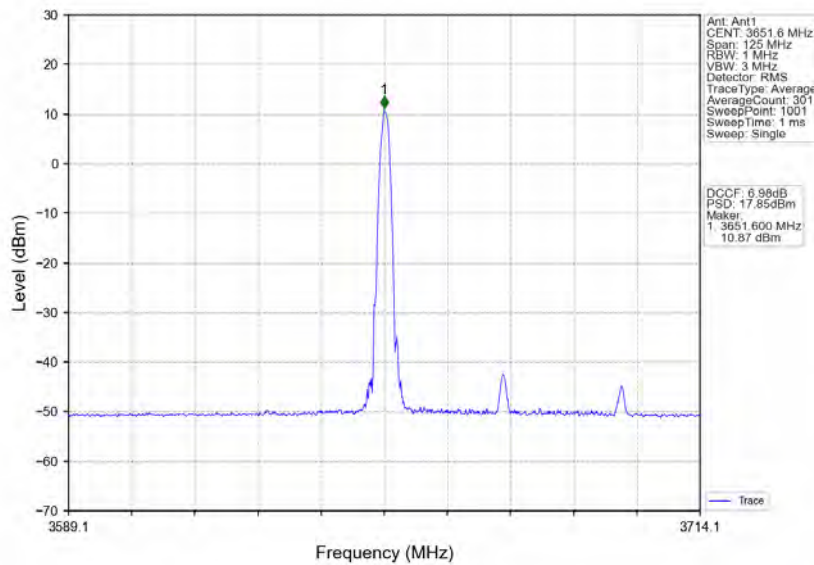
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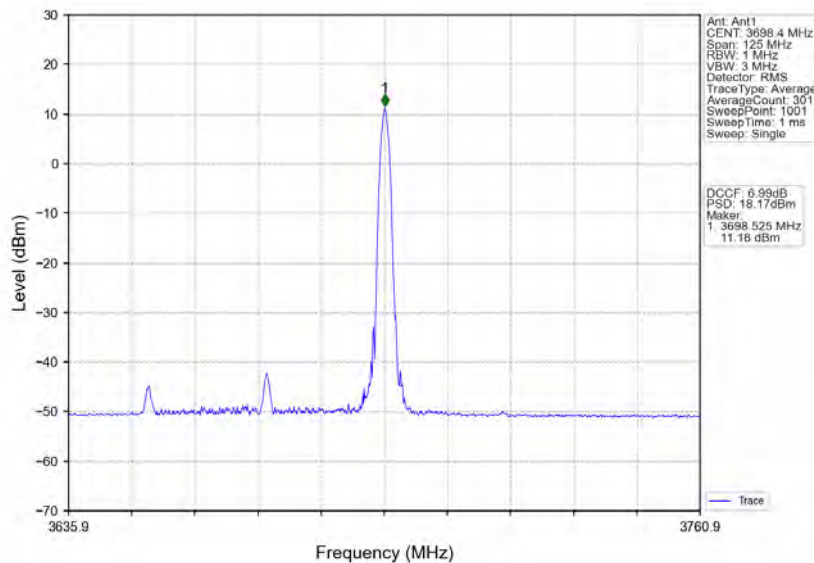
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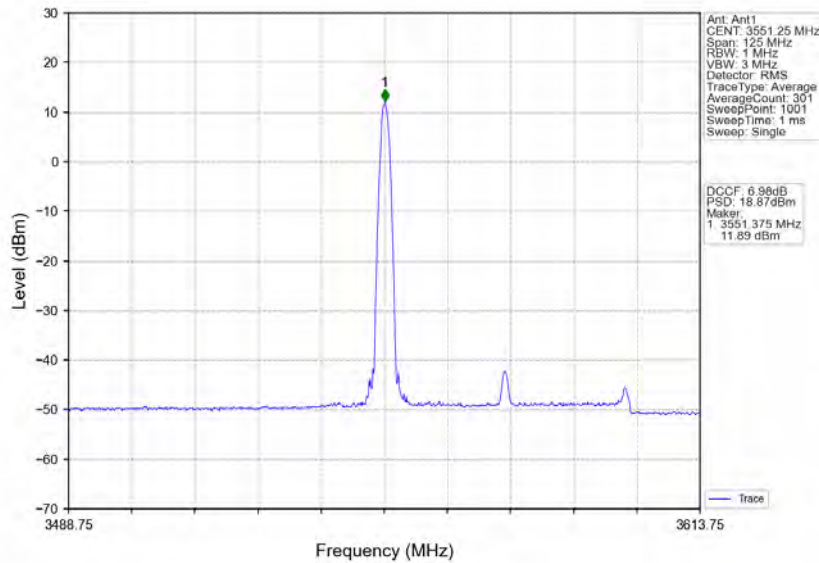
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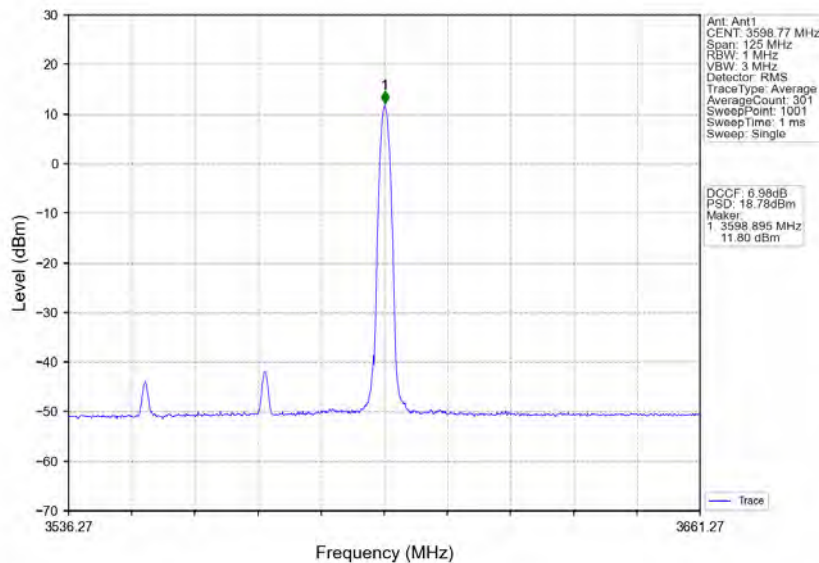
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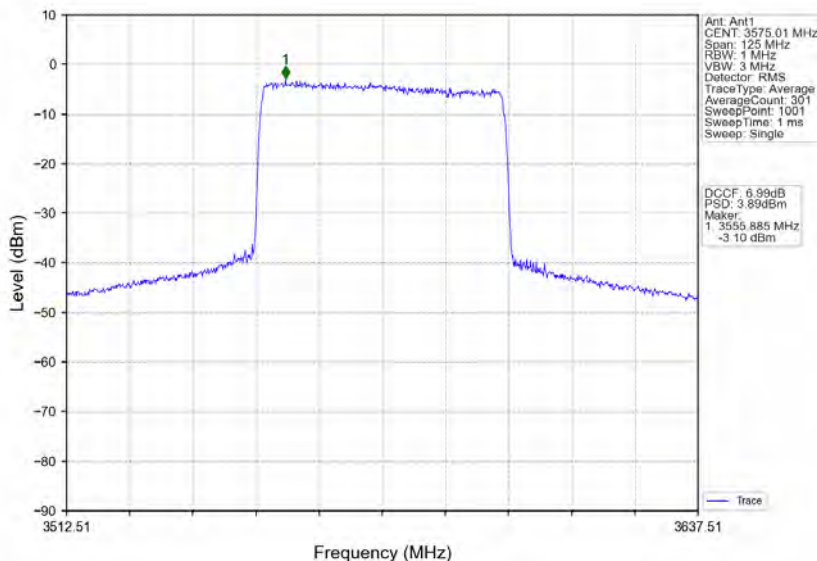
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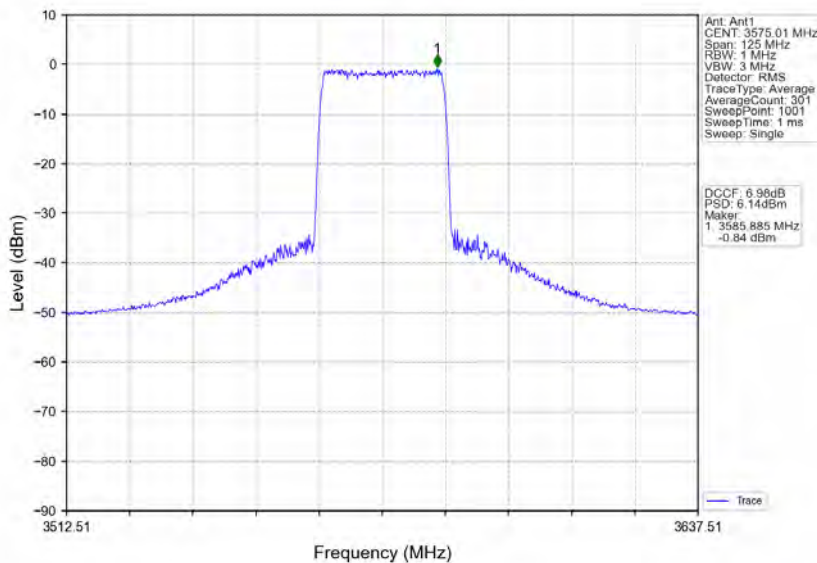
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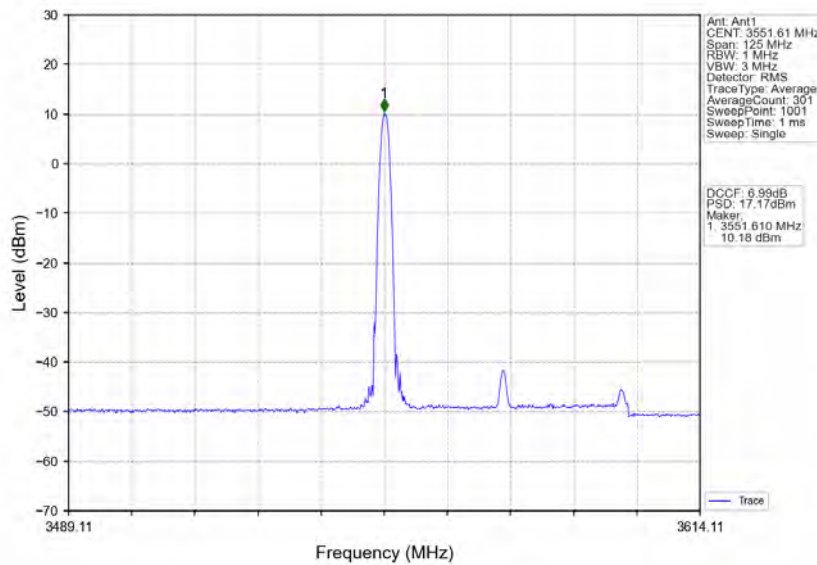
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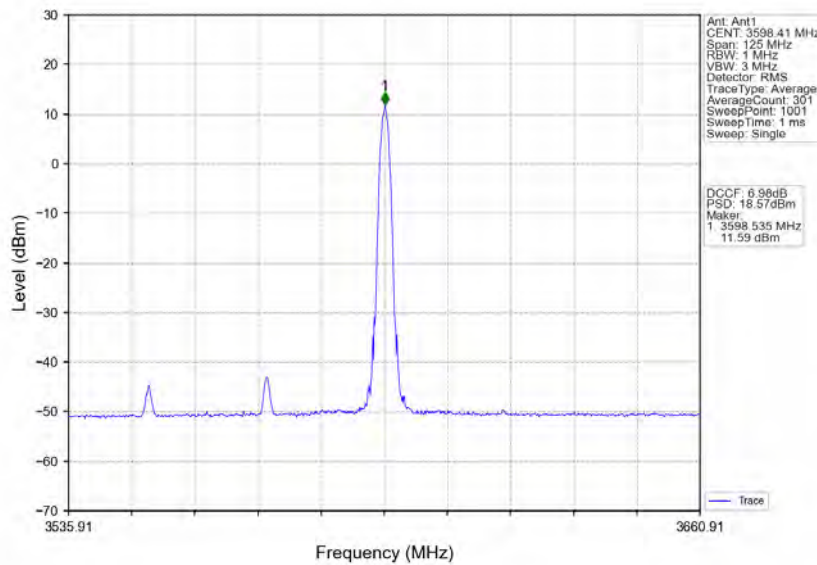
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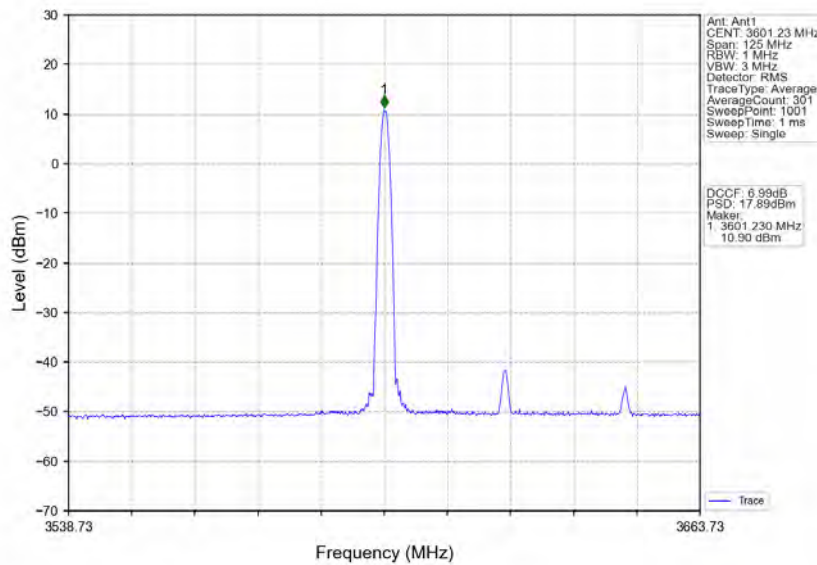
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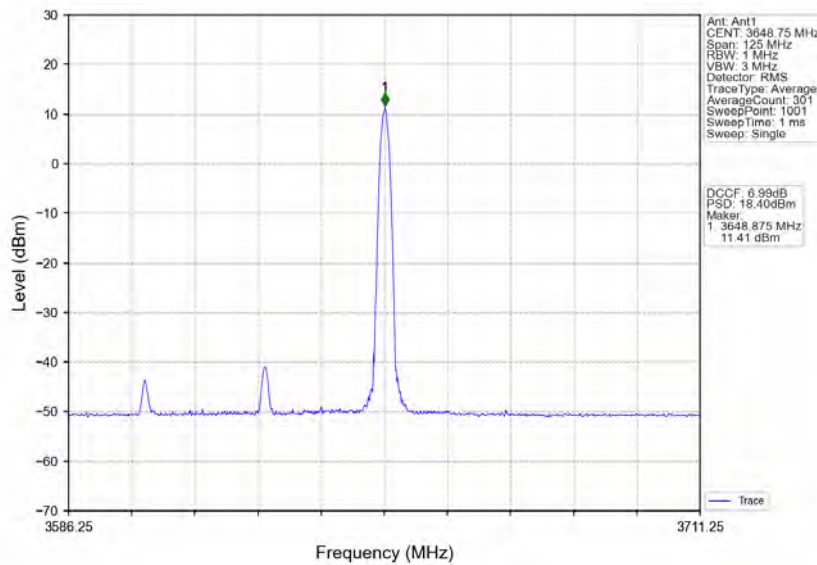
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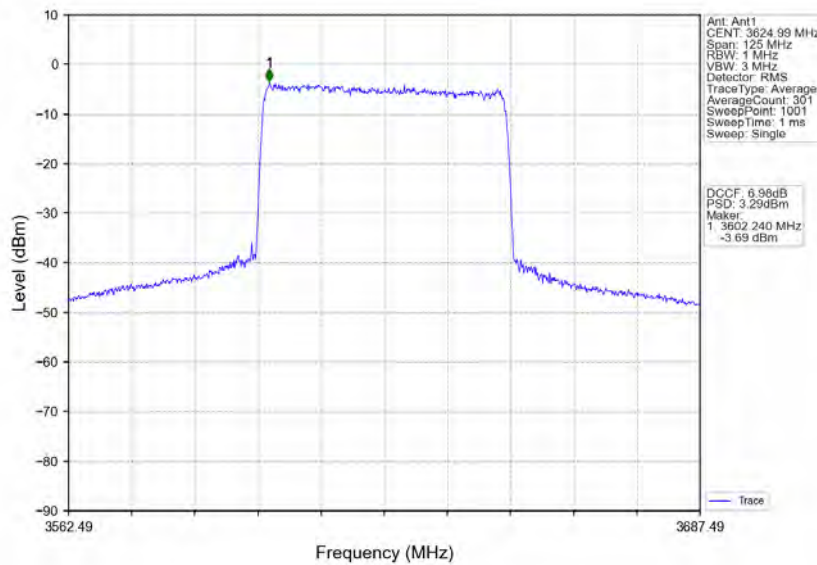
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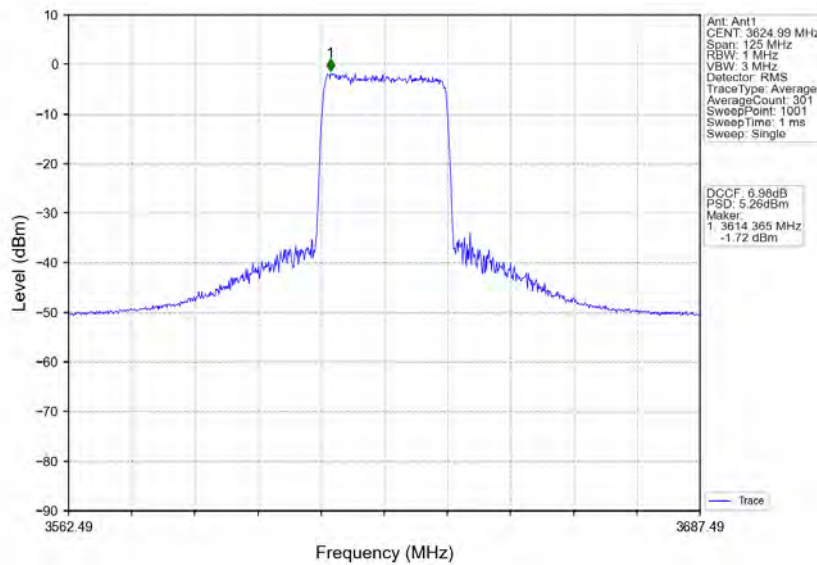
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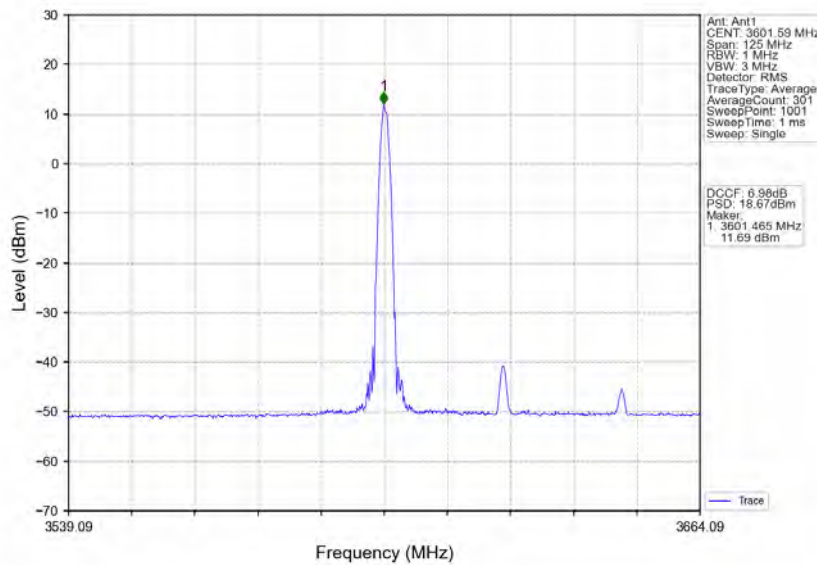
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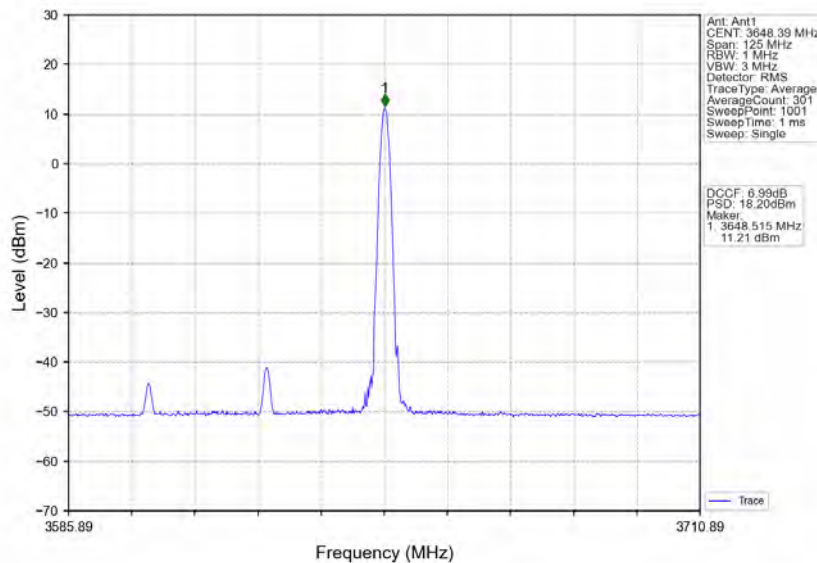
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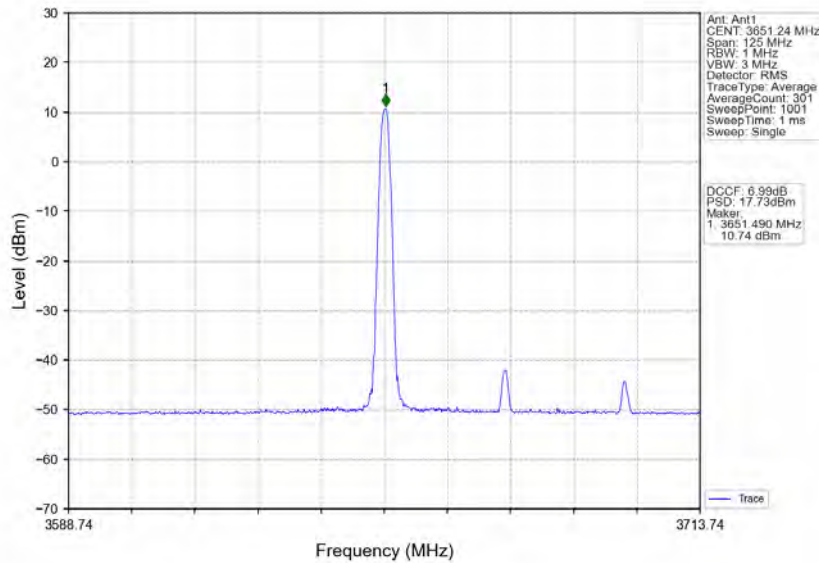
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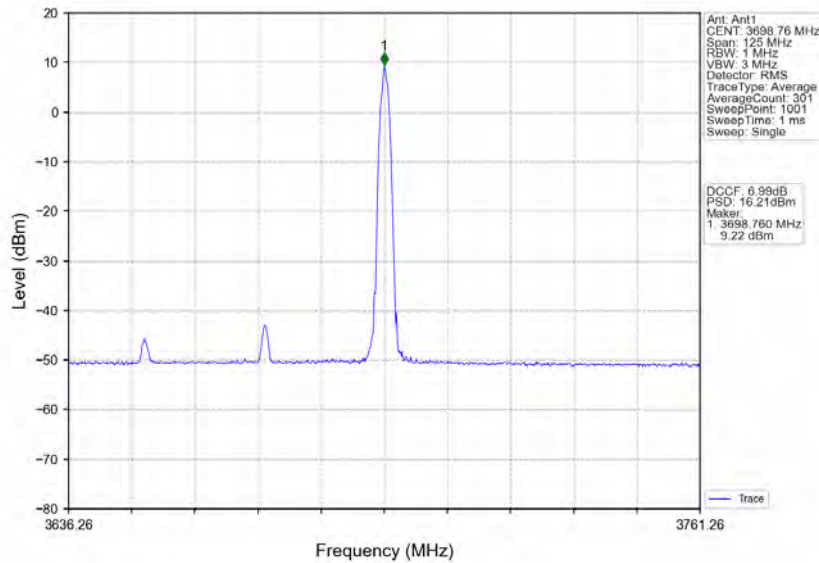
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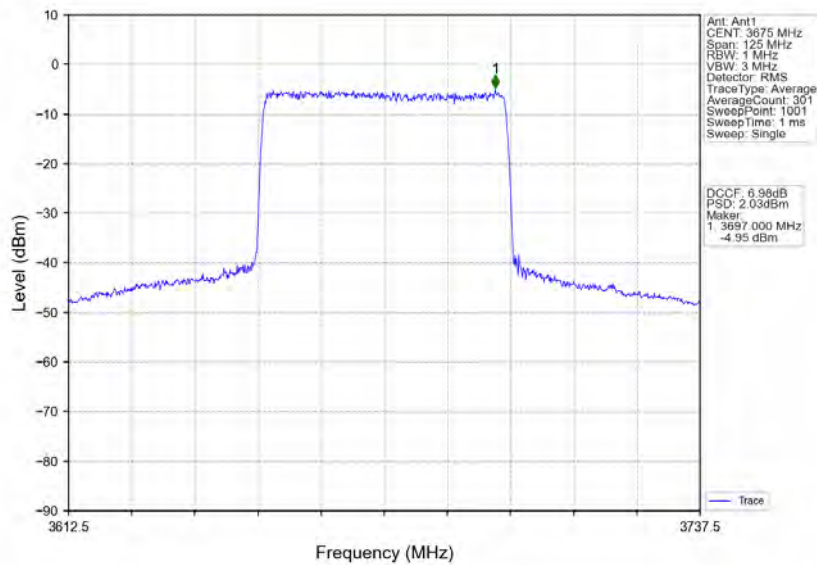
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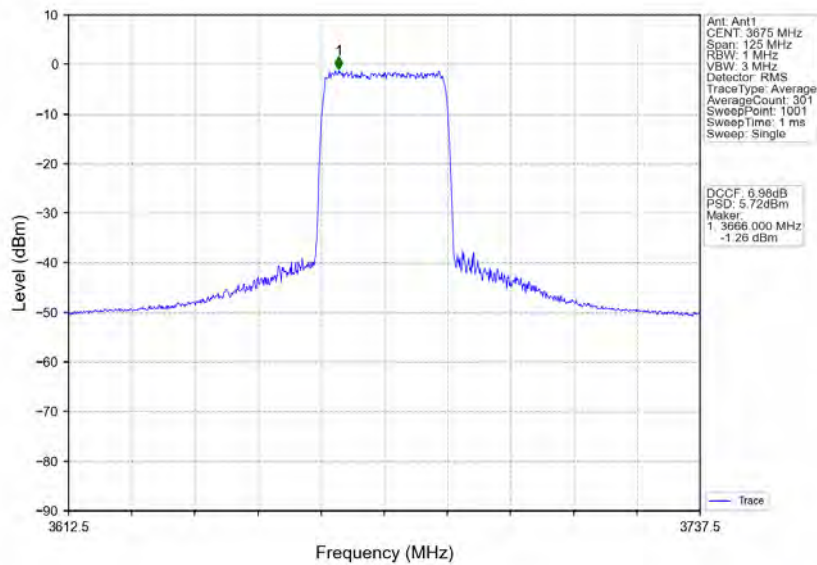
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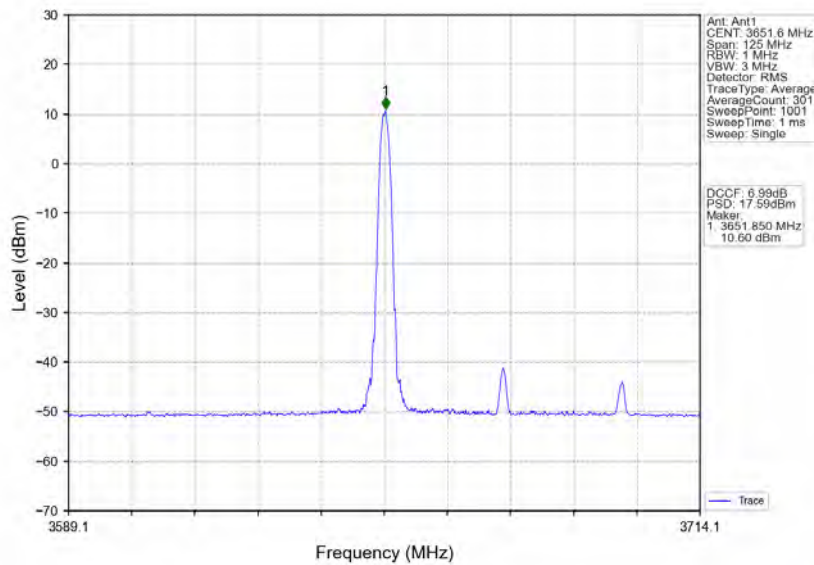
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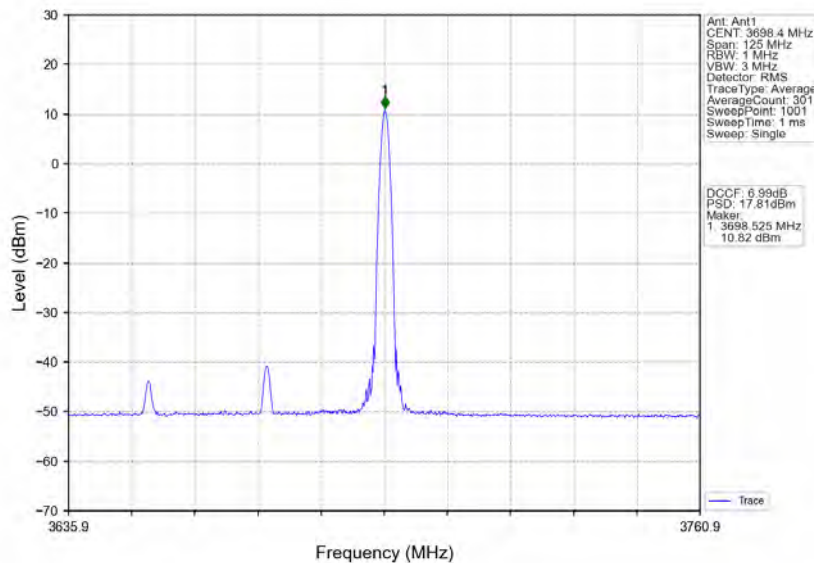
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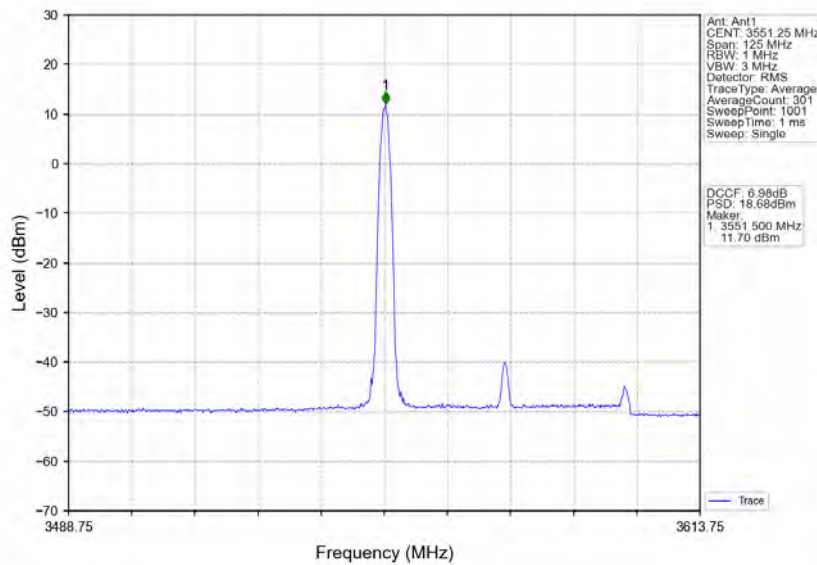
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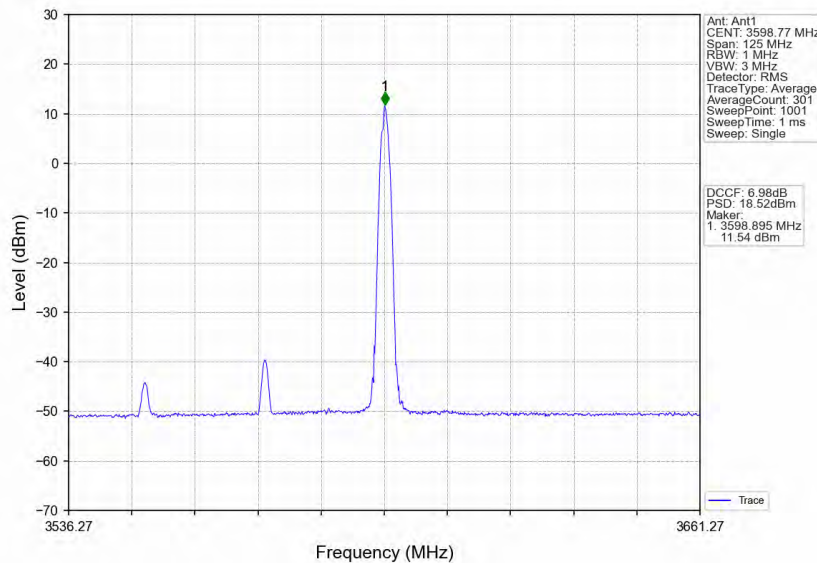
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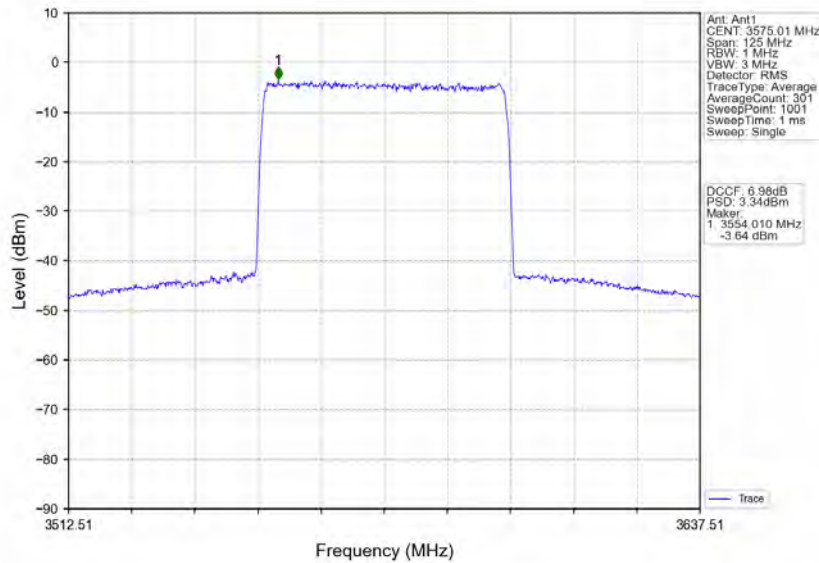
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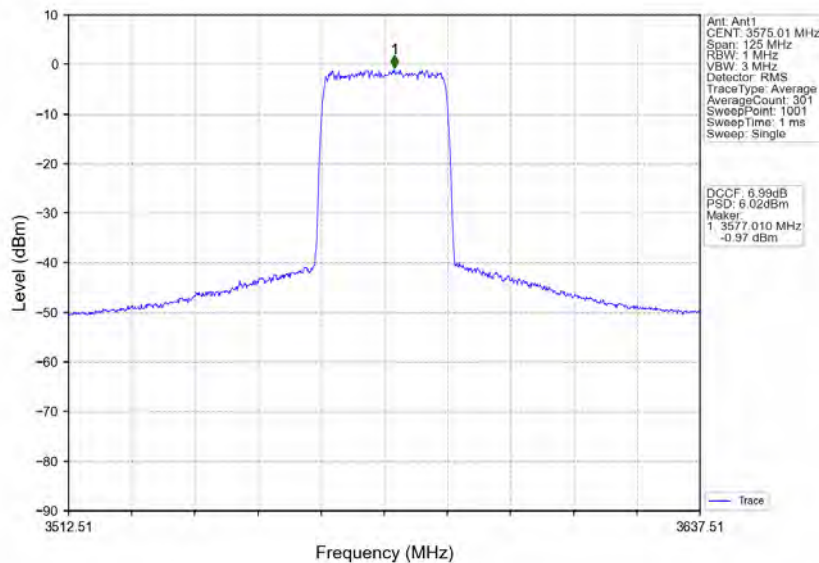
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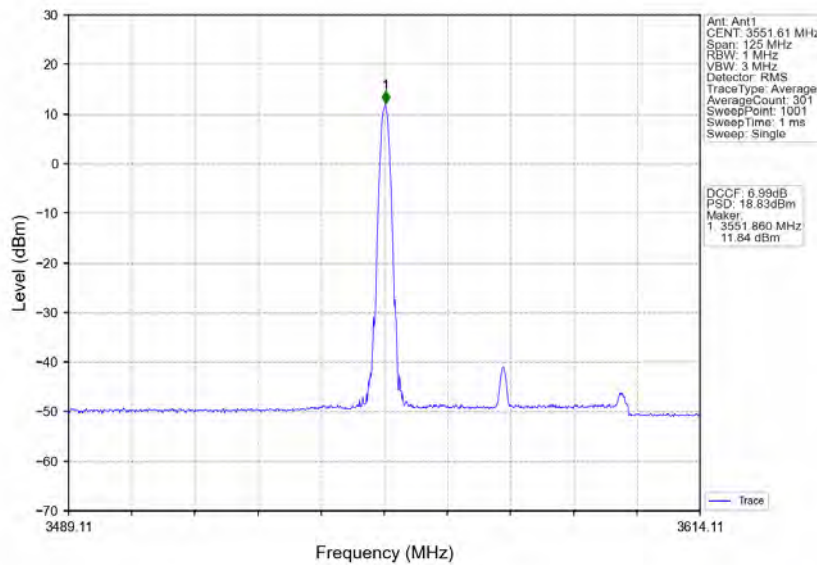
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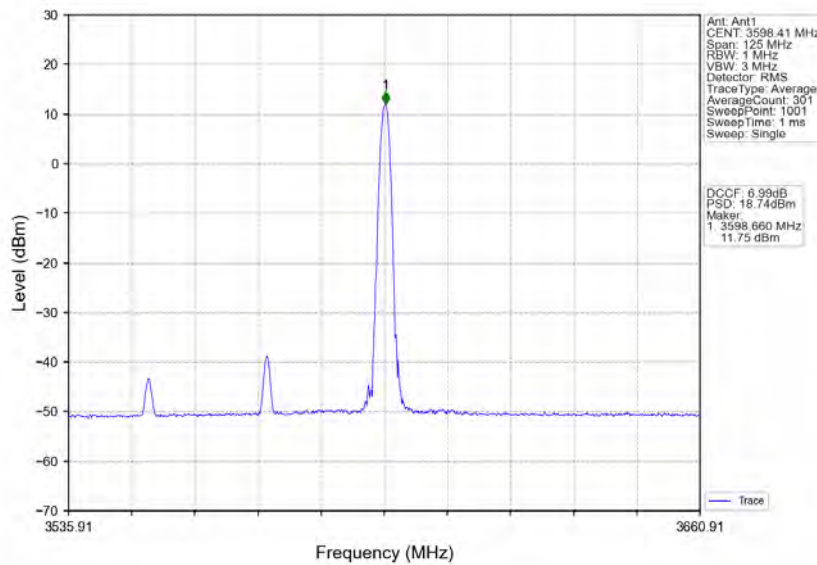
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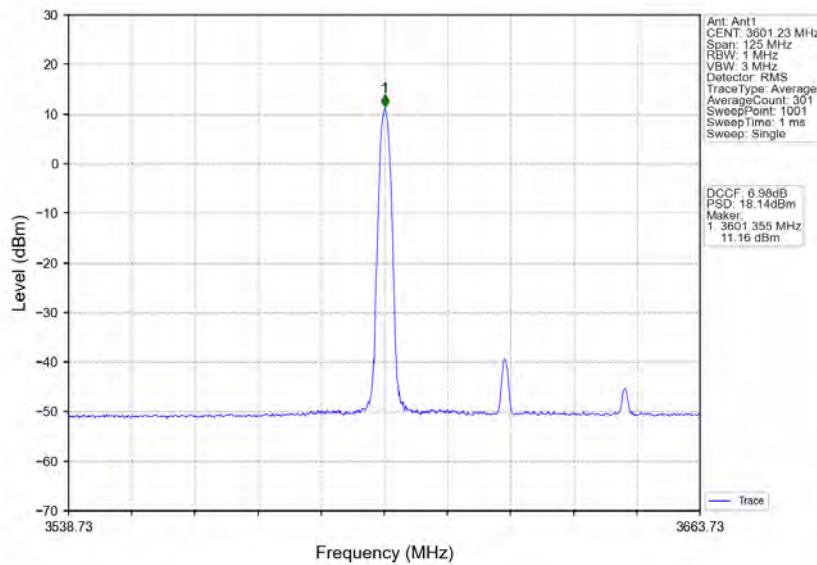
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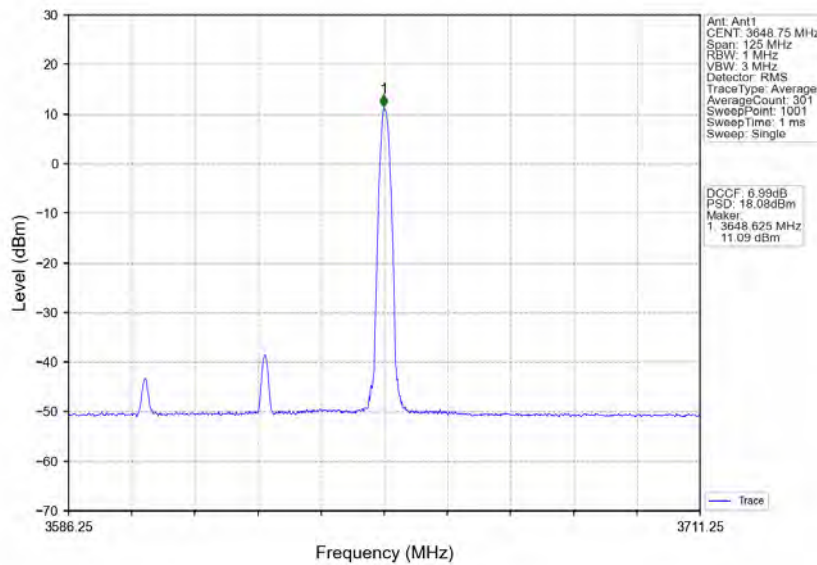
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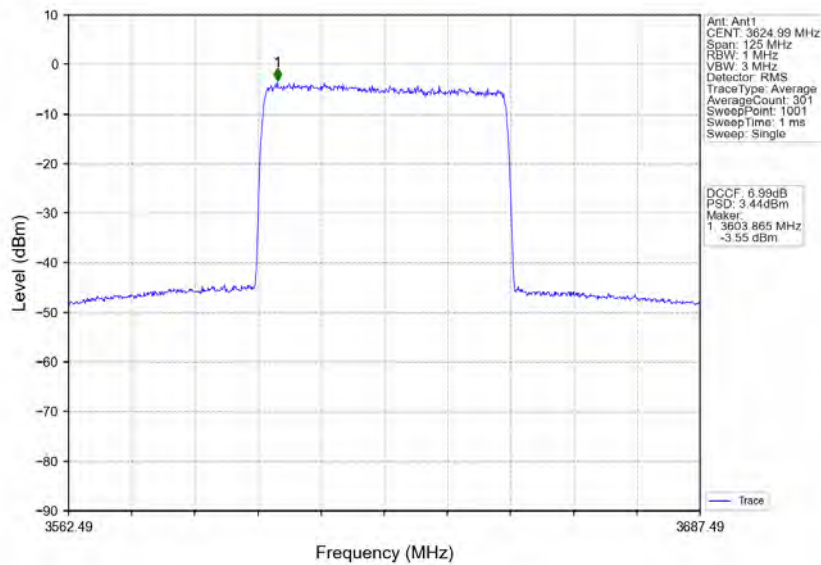
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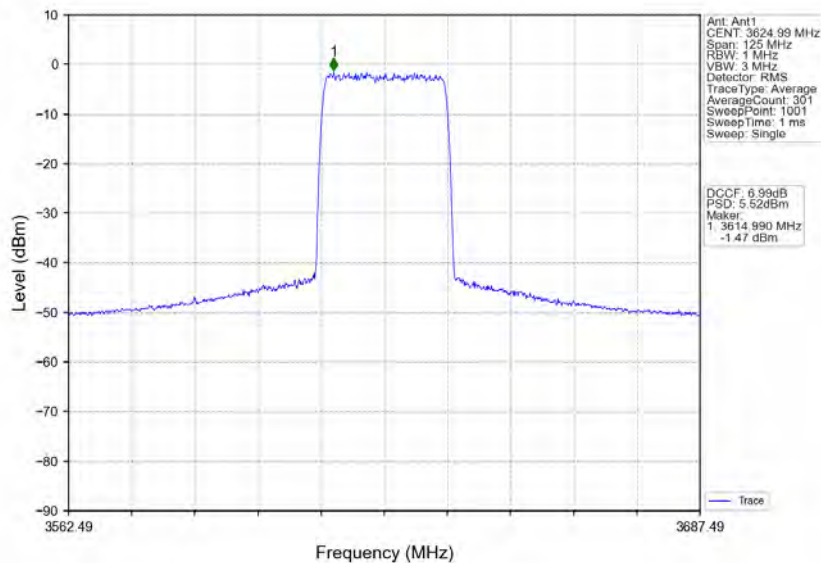
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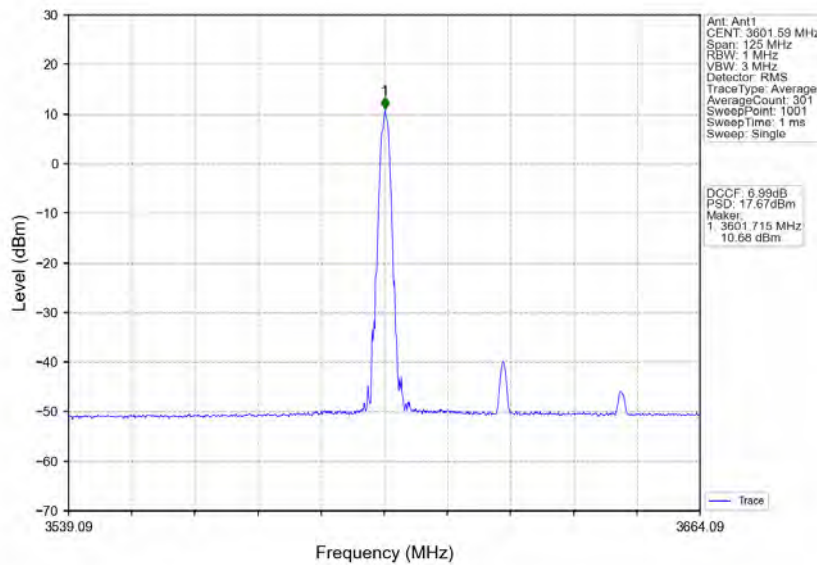
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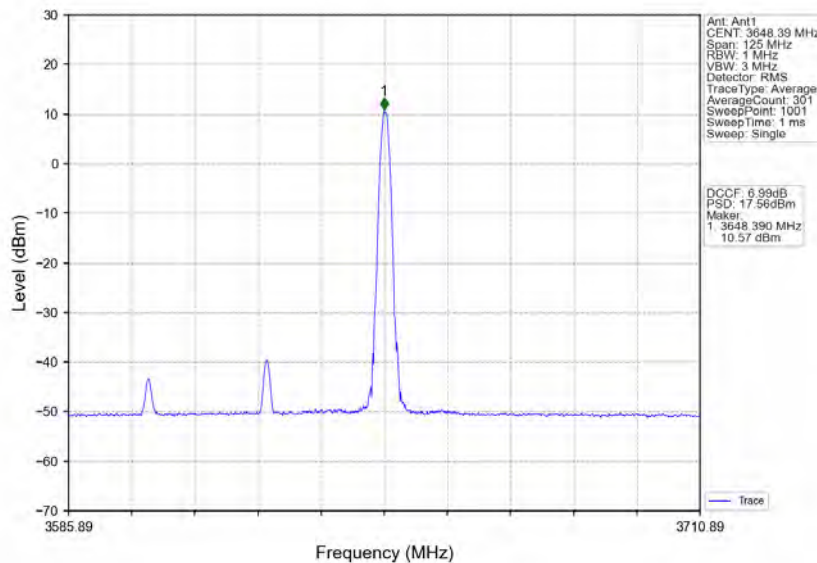
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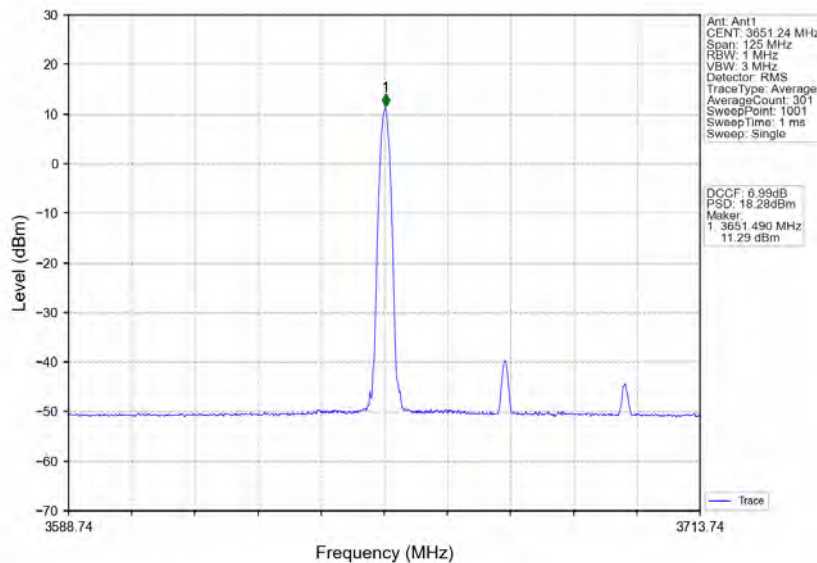
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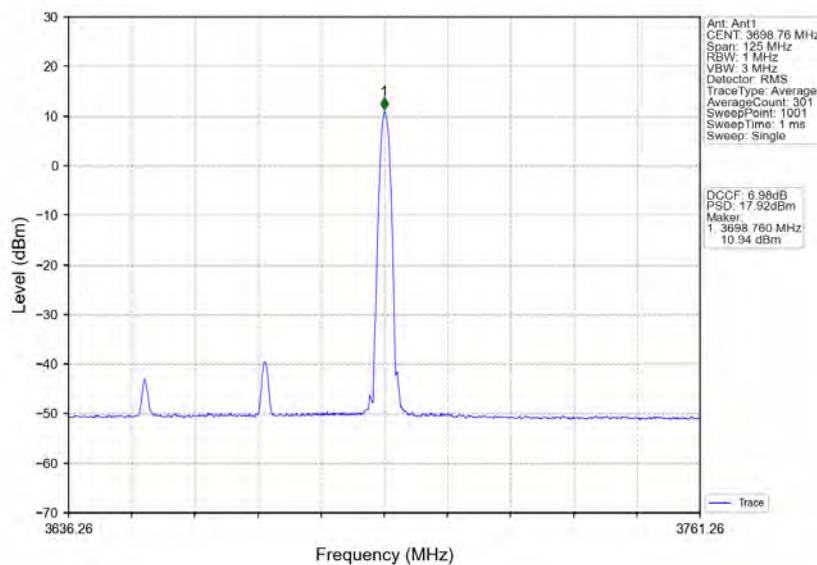
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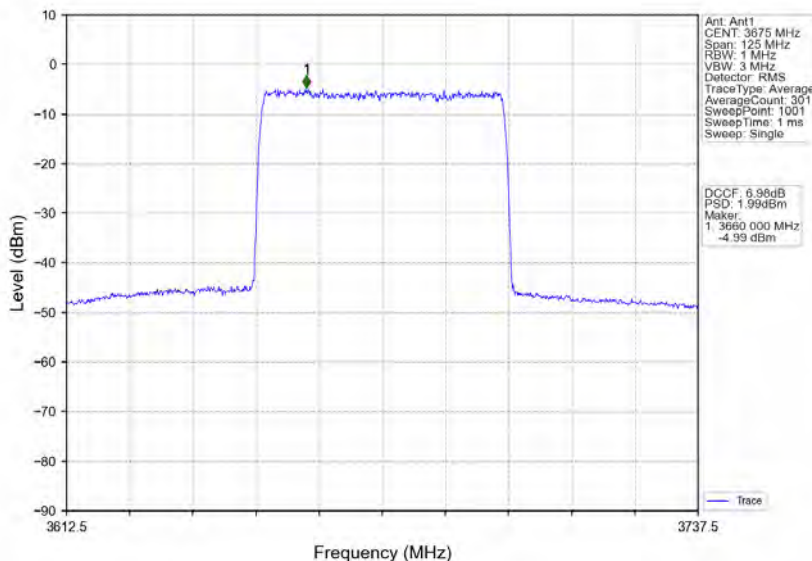
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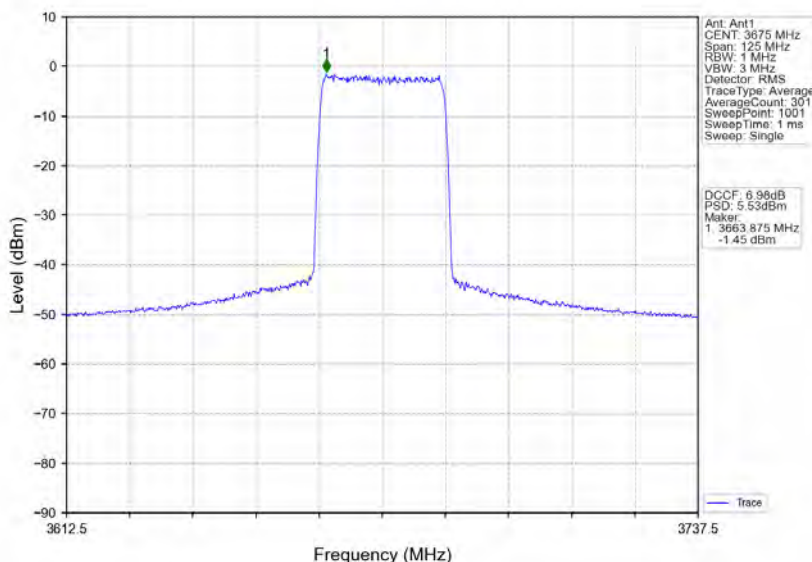
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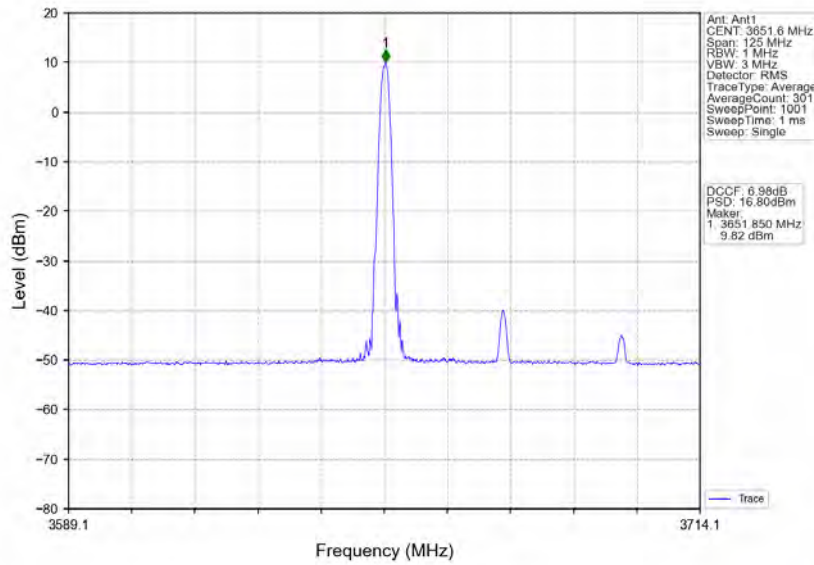
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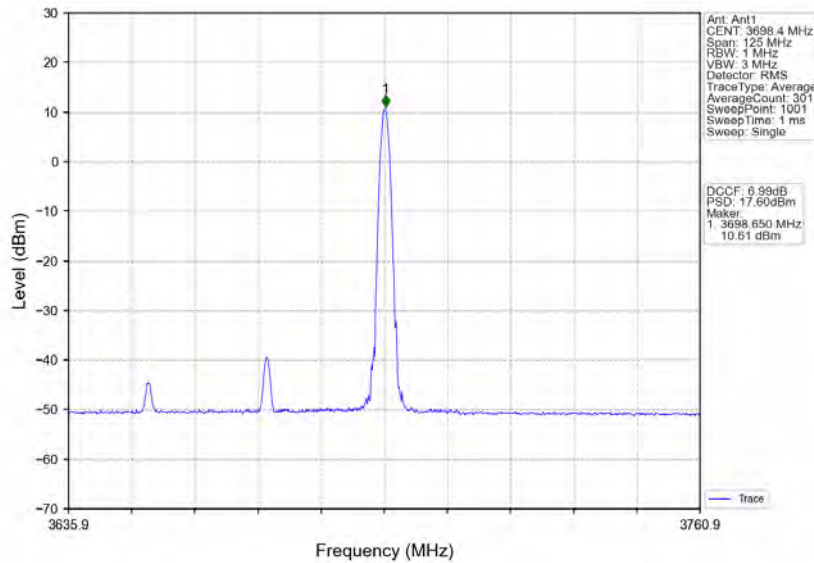
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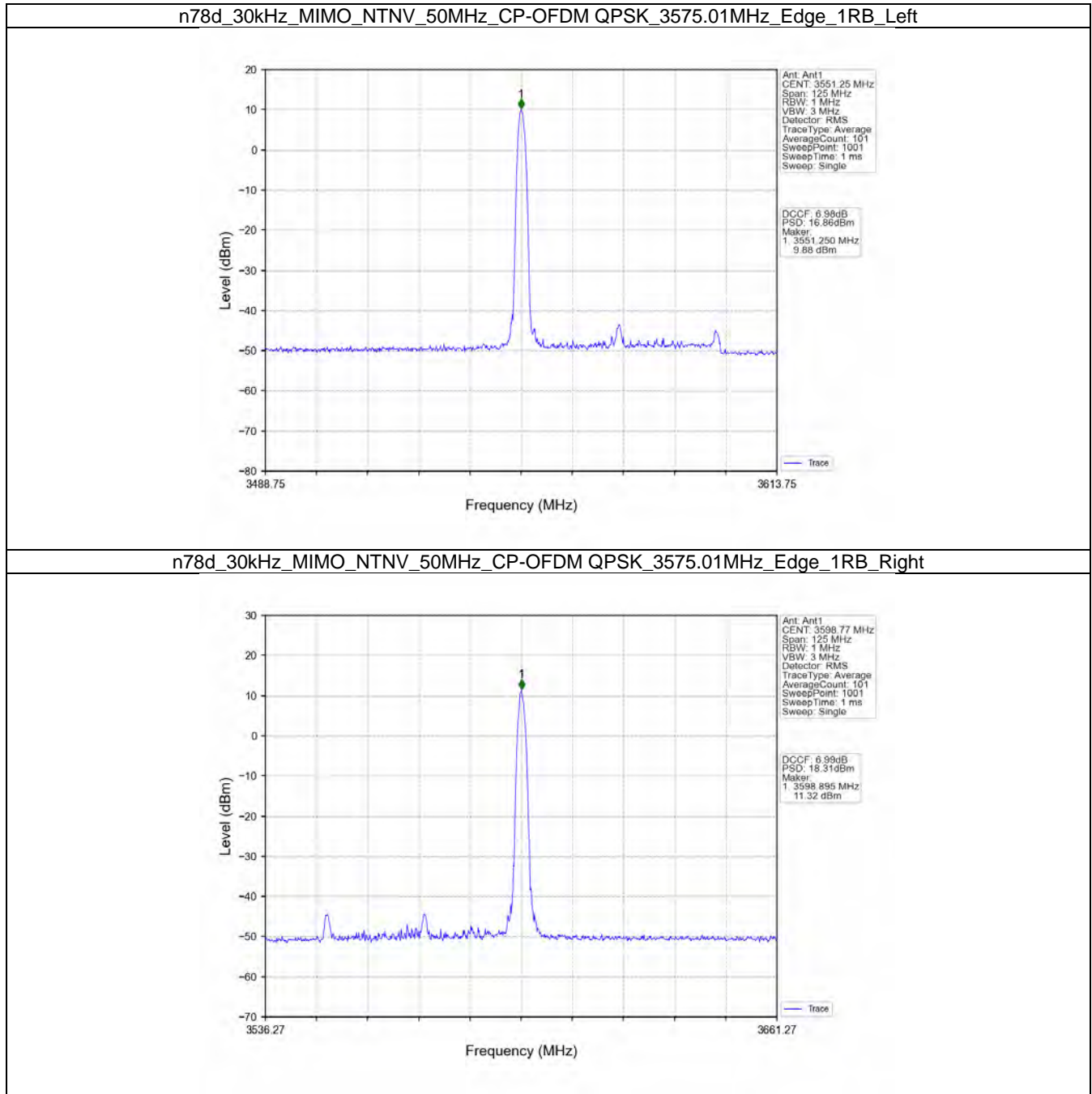
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2.18.3 Test Graph for ANT2



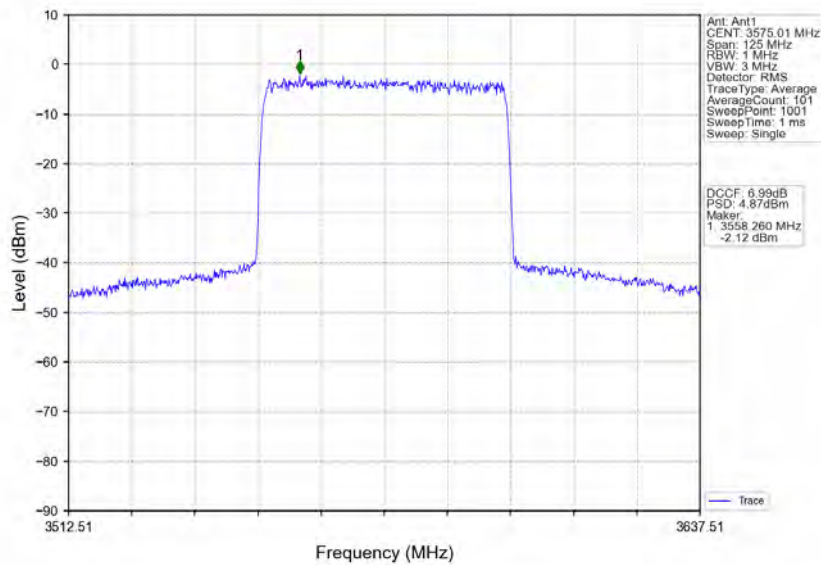
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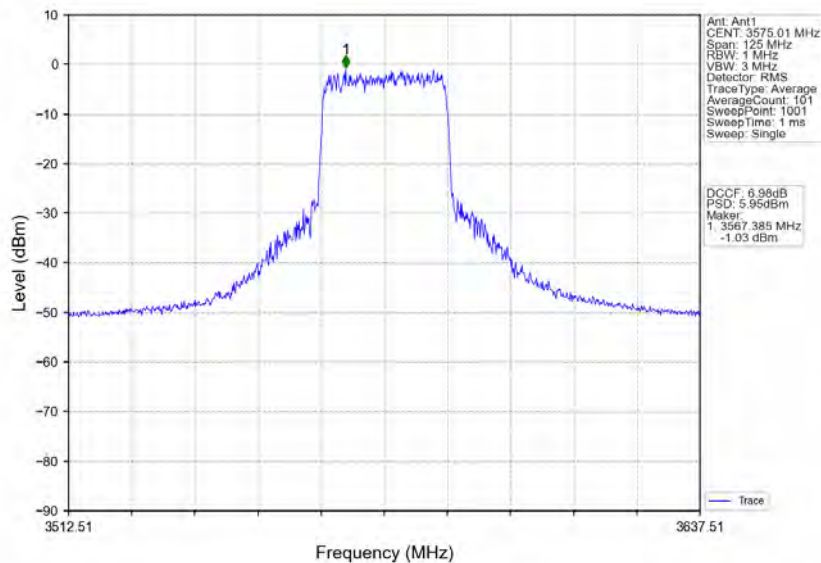
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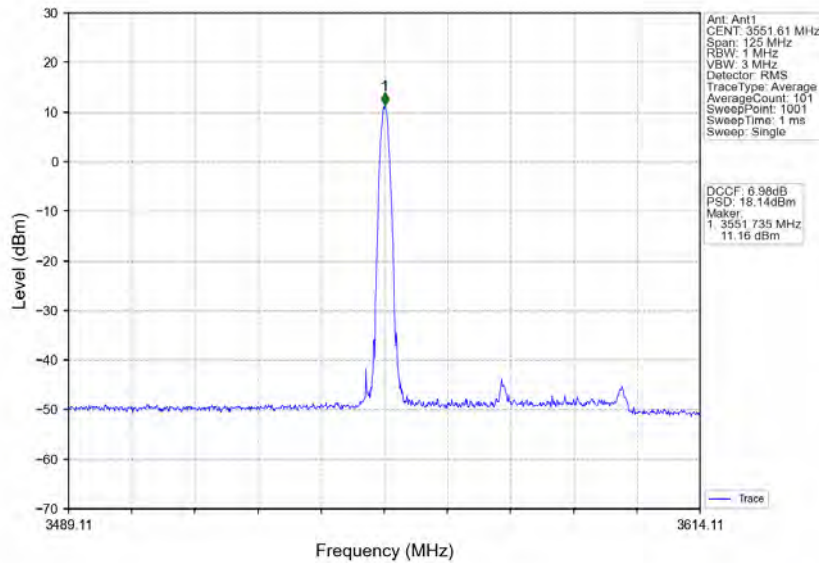
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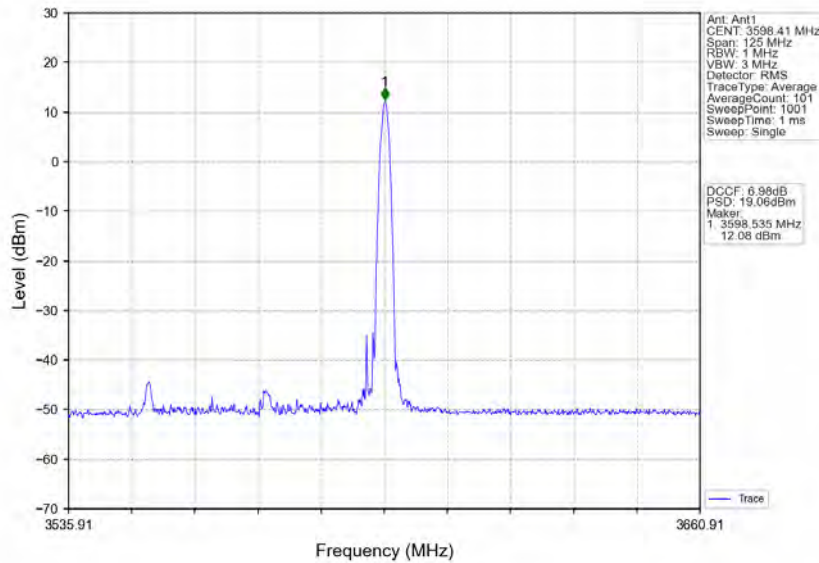
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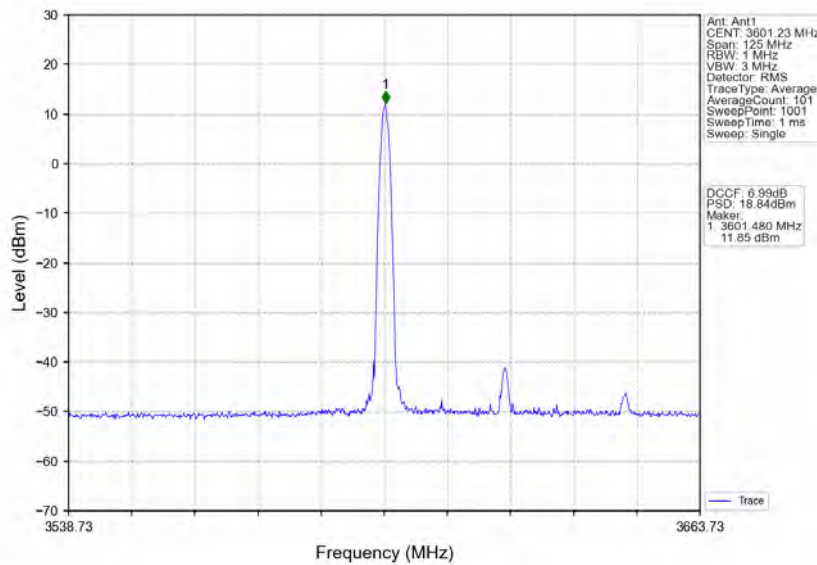
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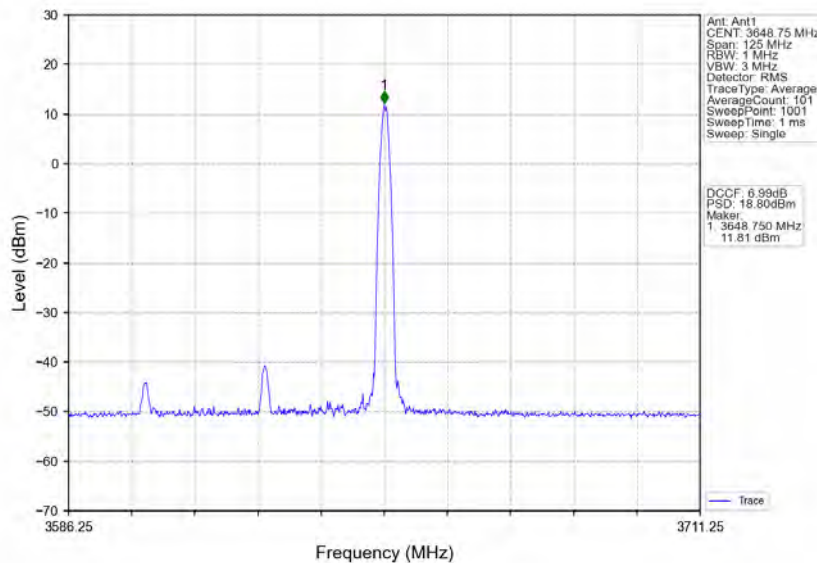
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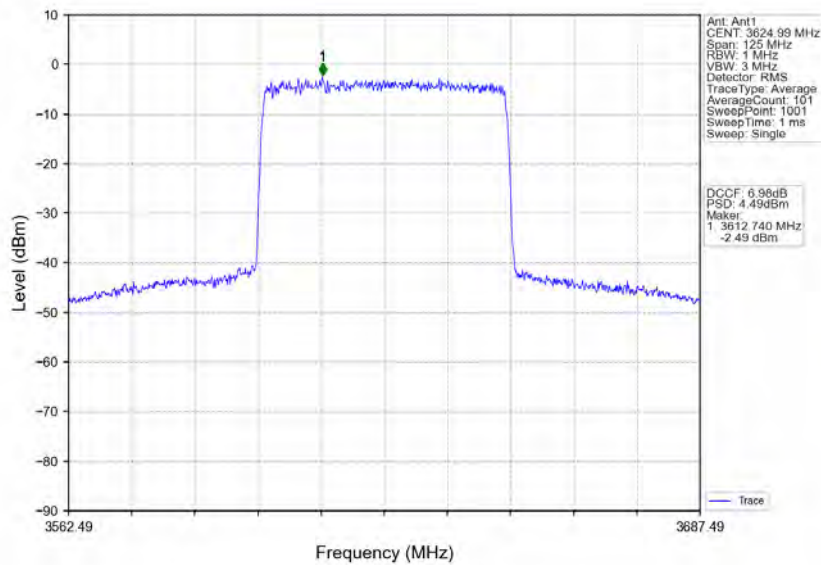
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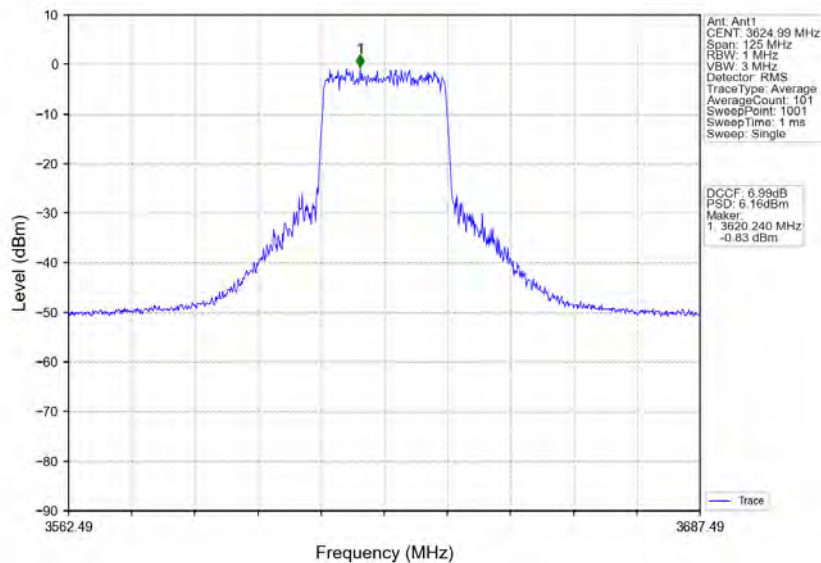
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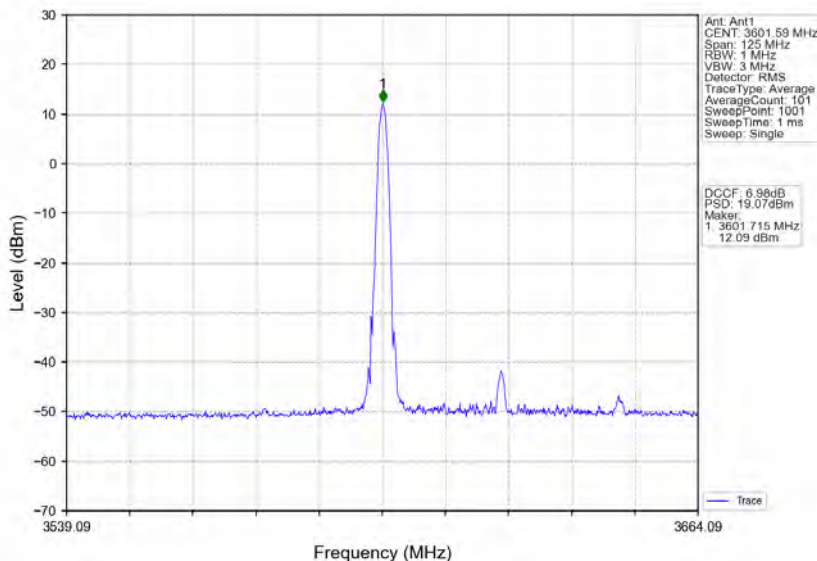
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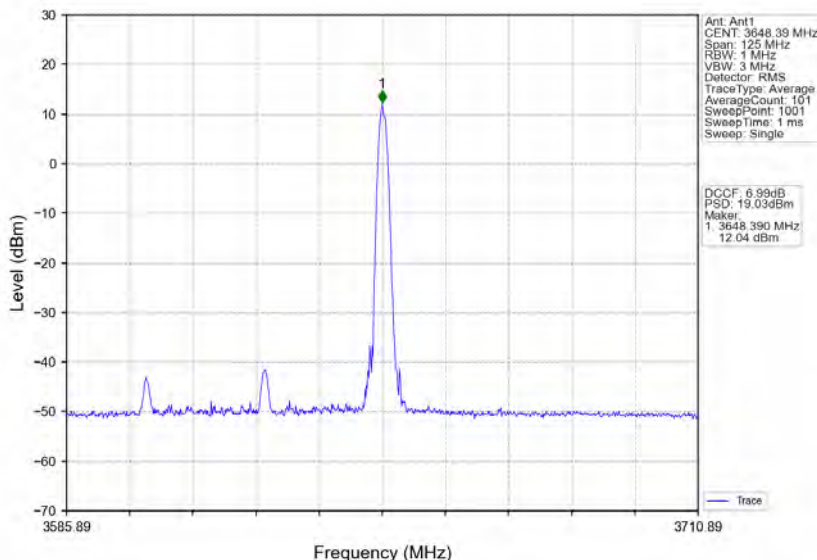
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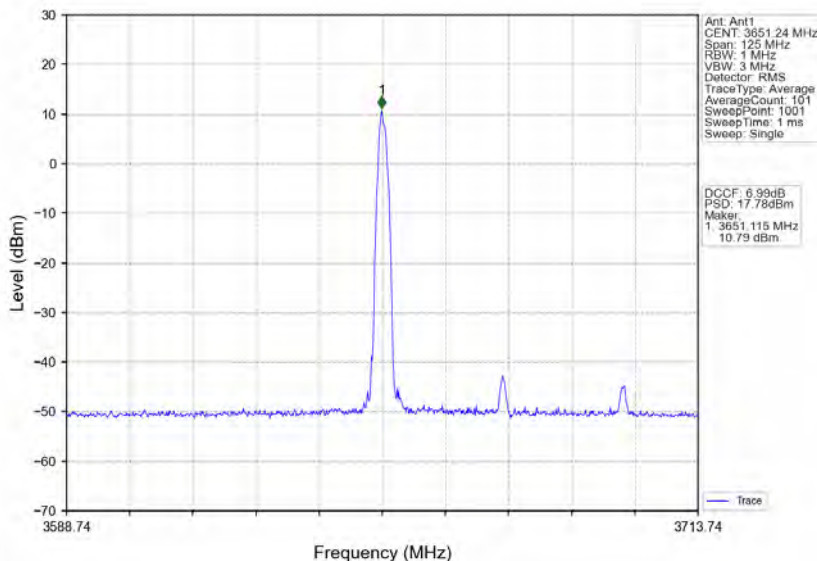
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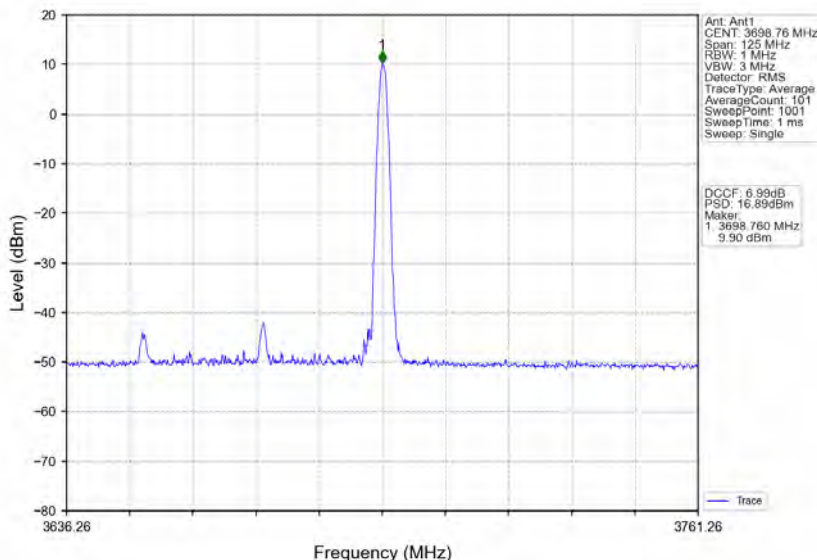
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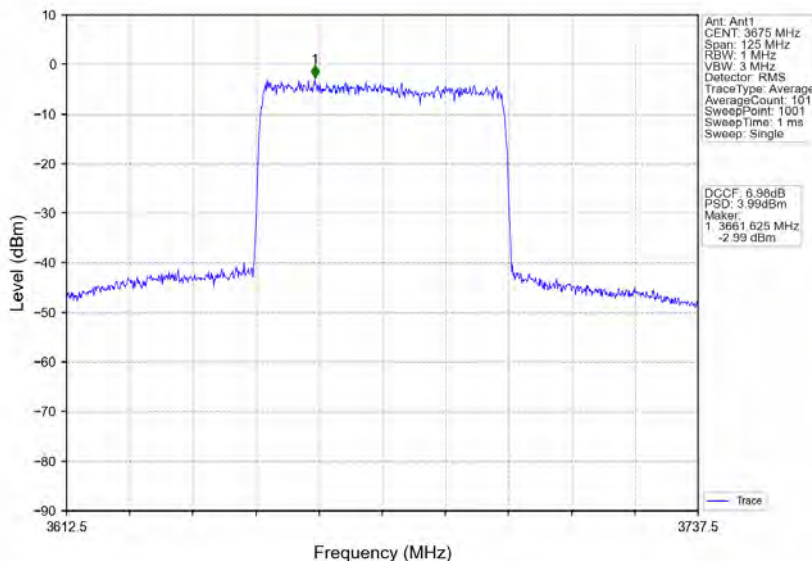
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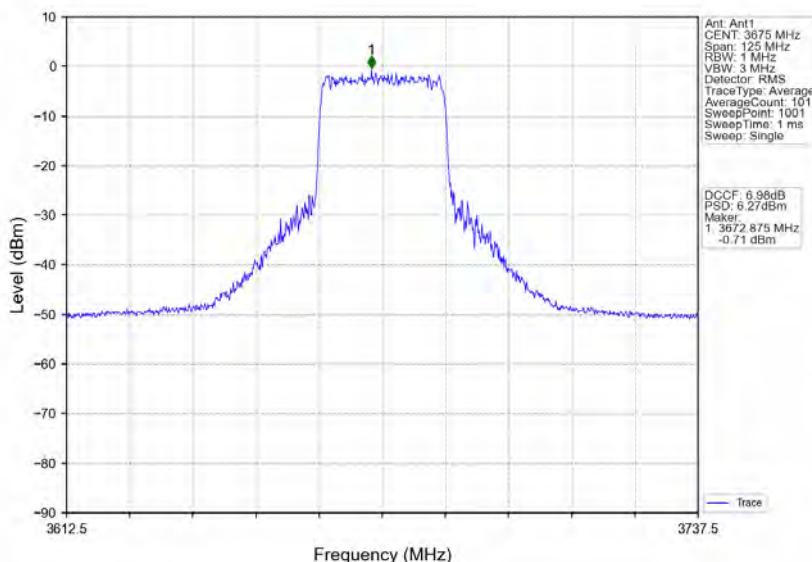
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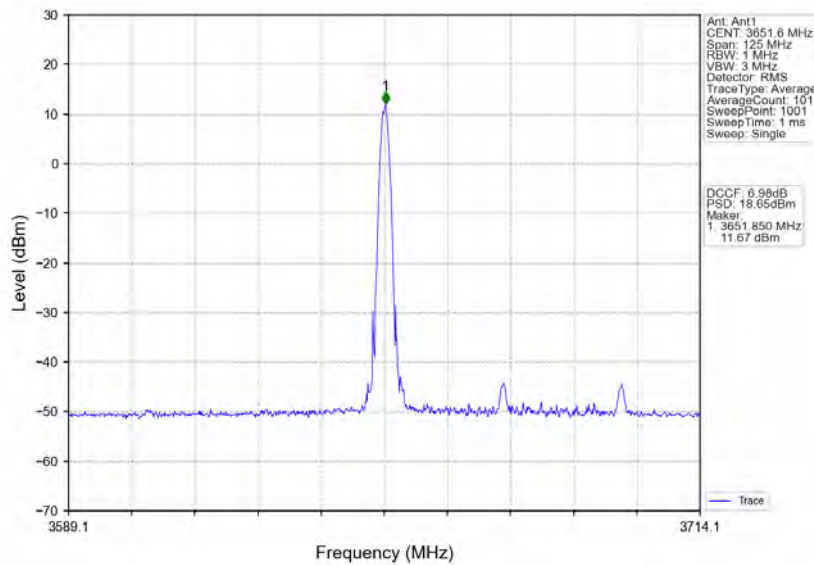
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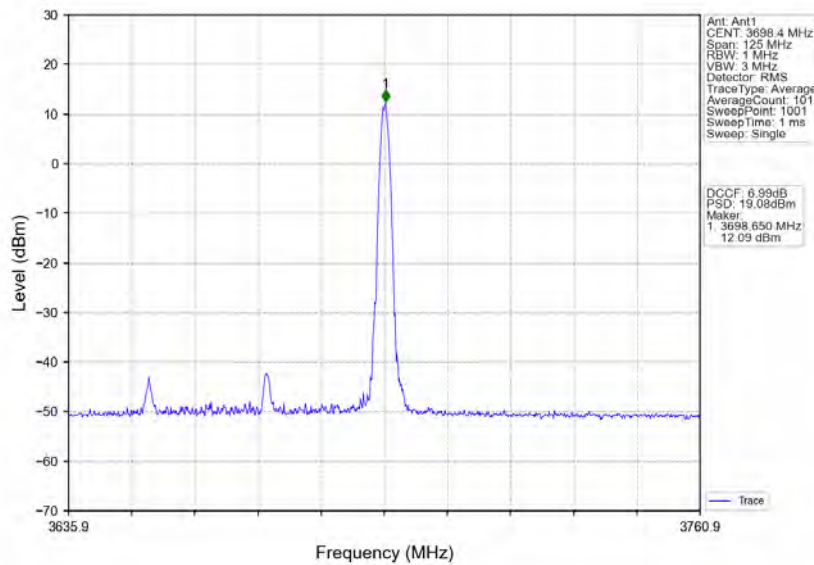
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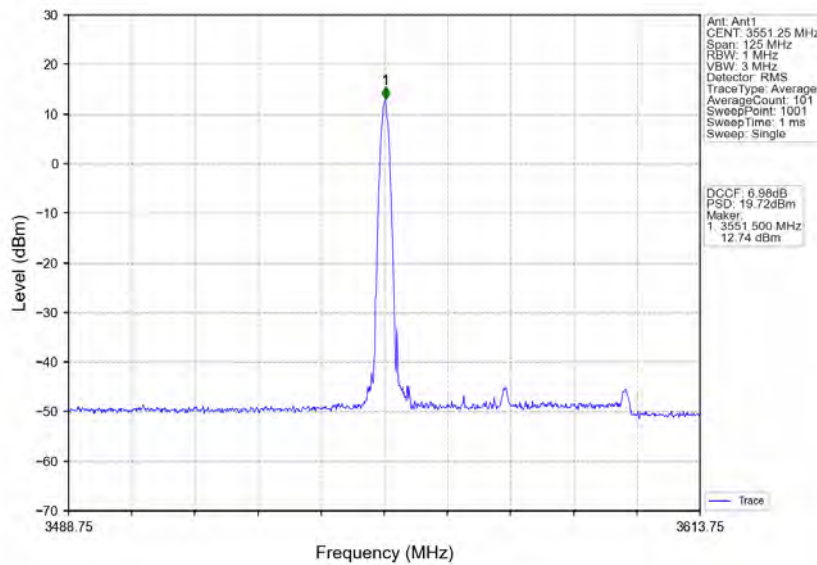
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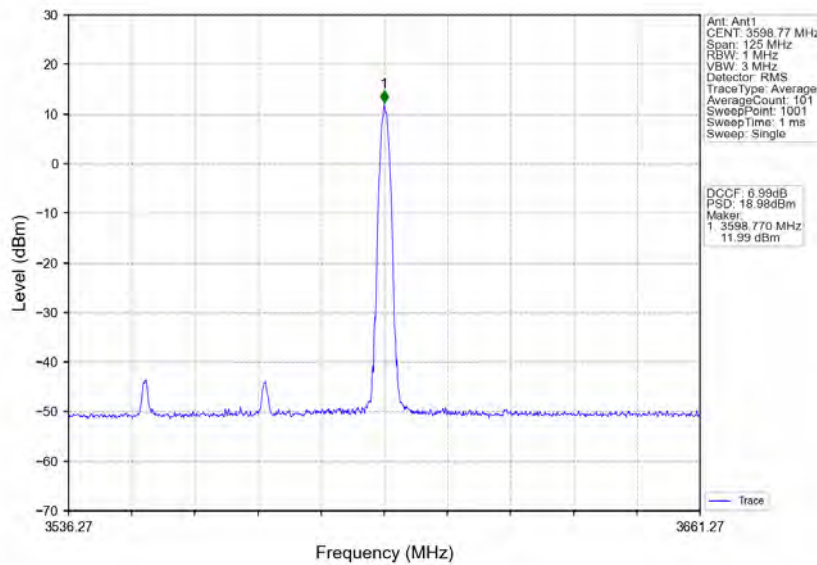
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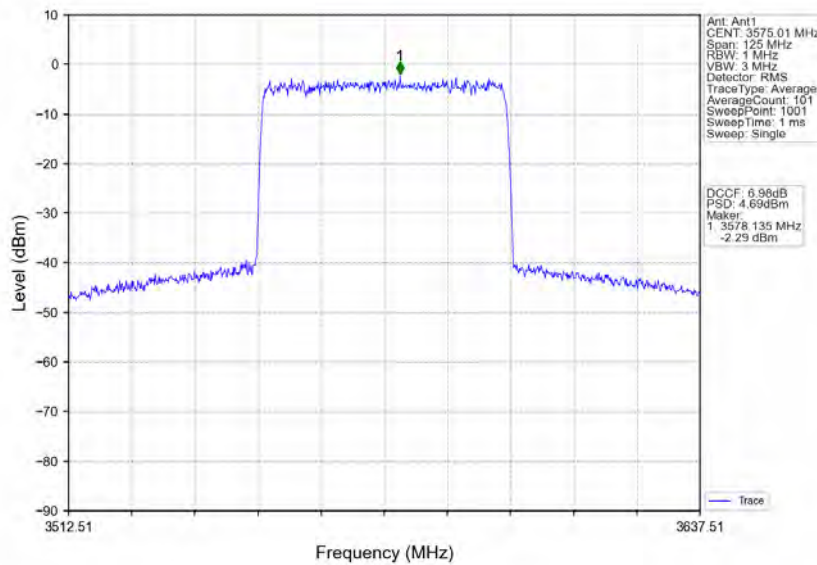
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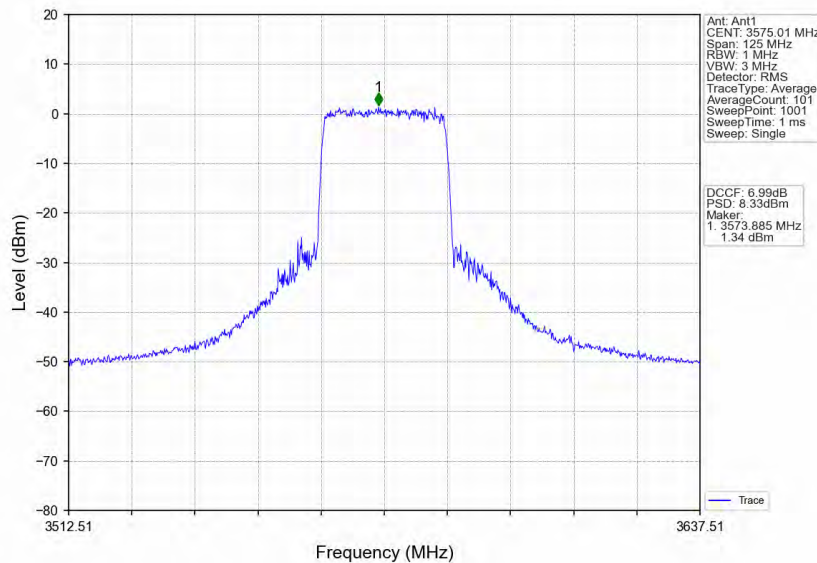
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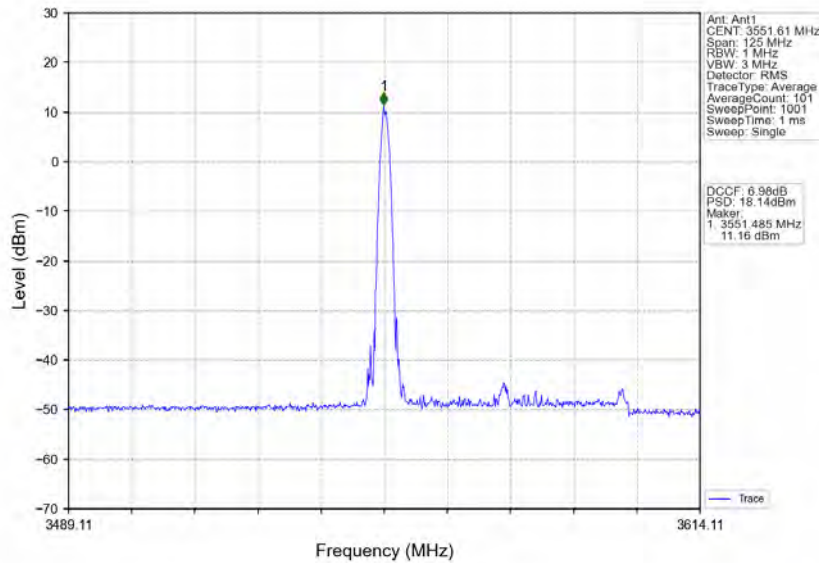
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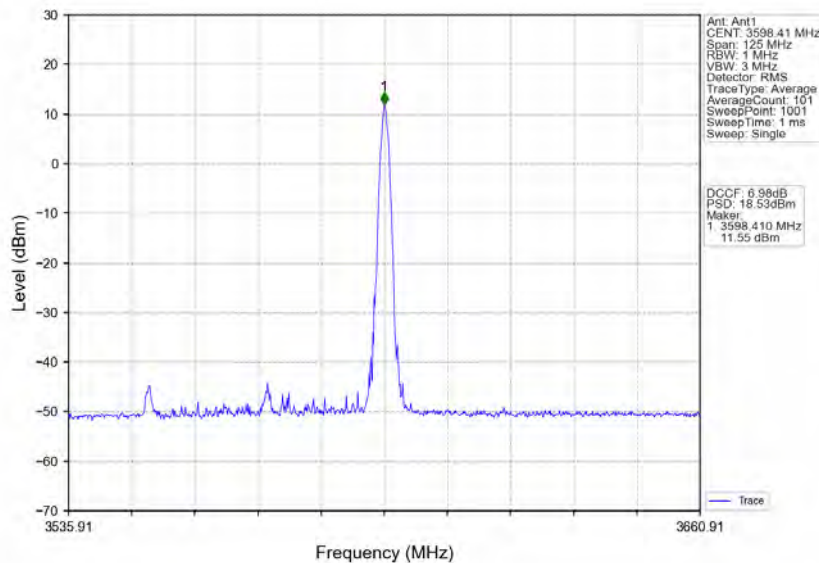
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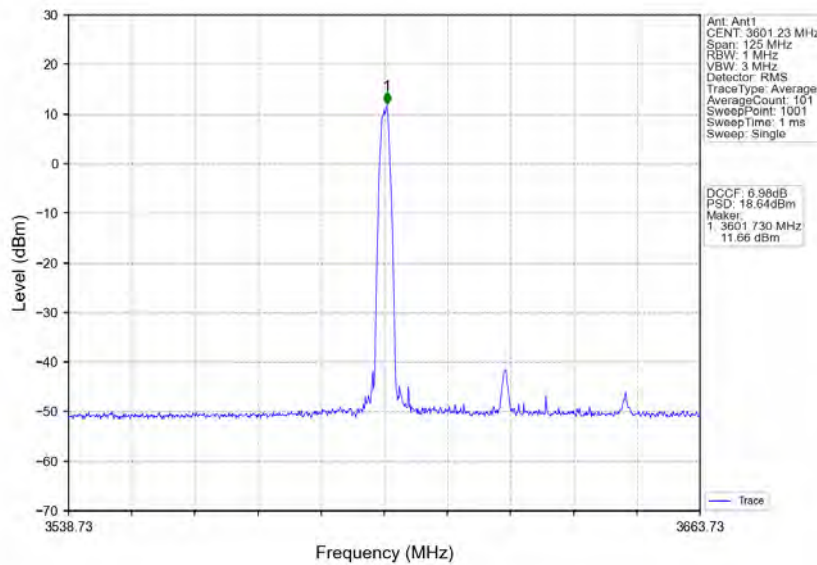
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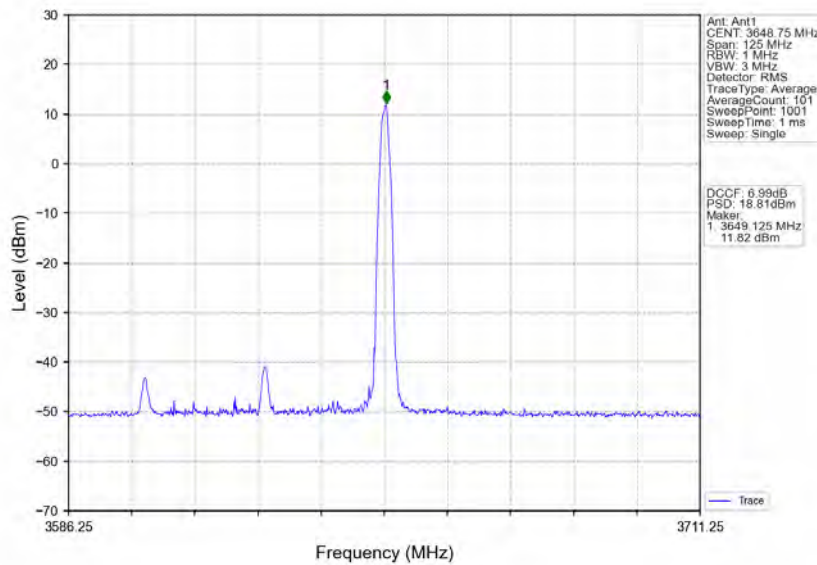
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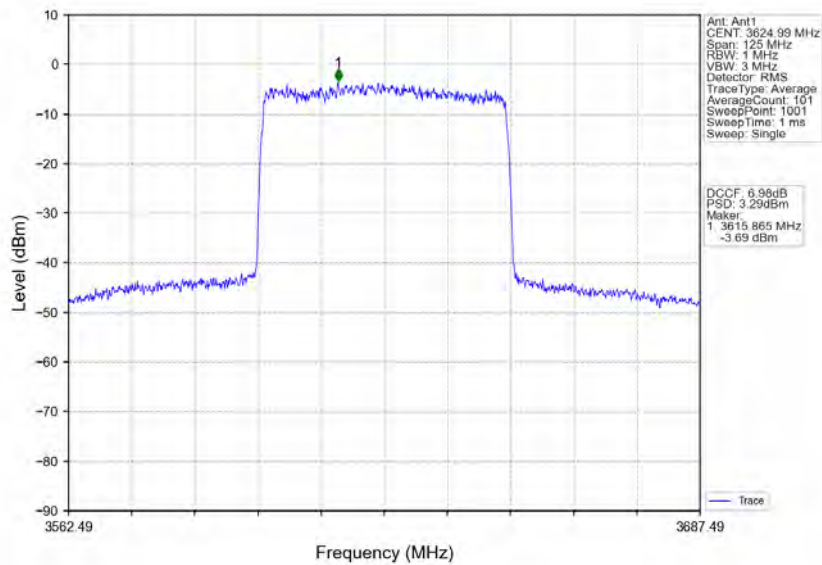
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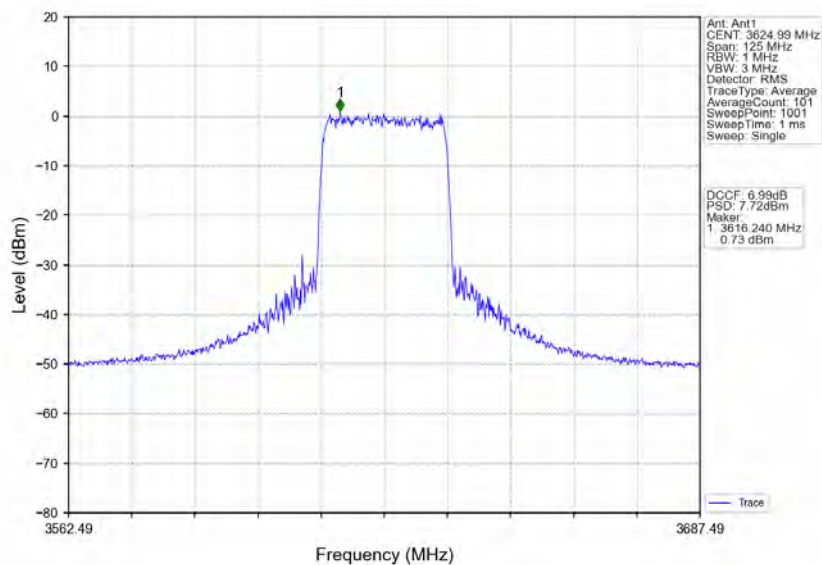
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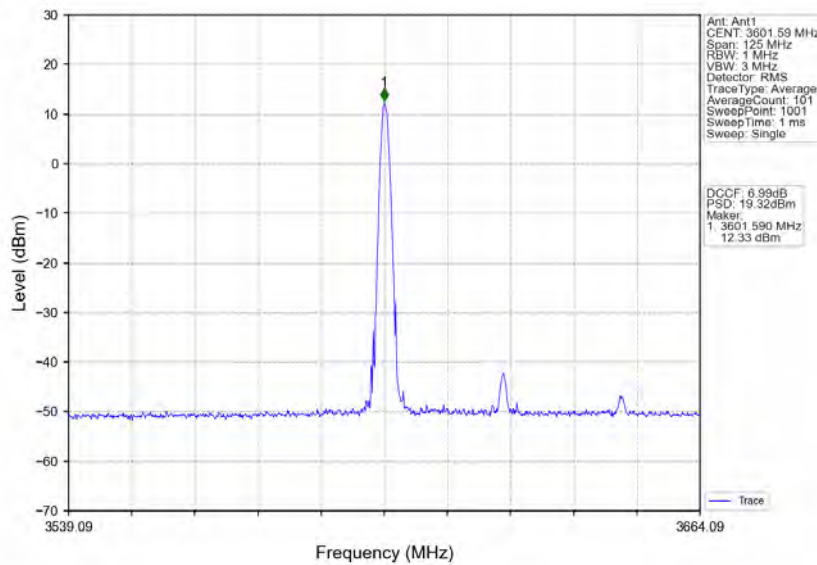
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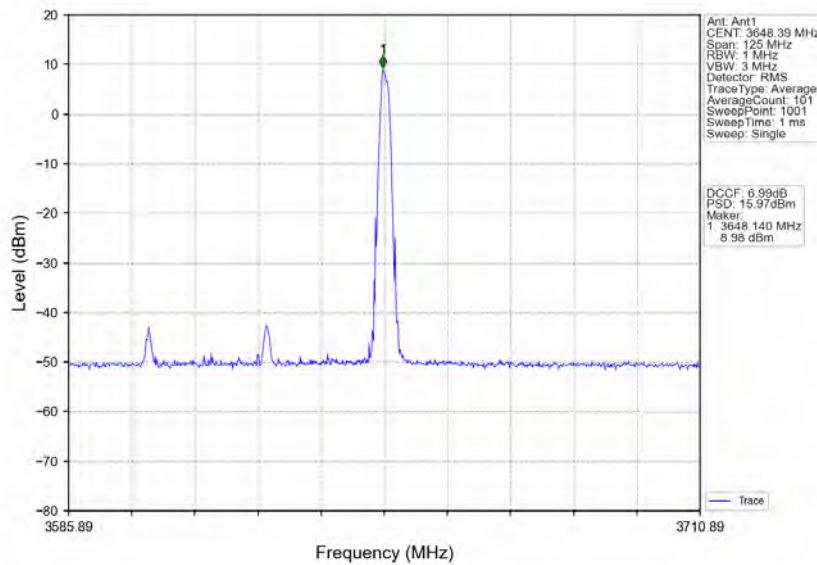
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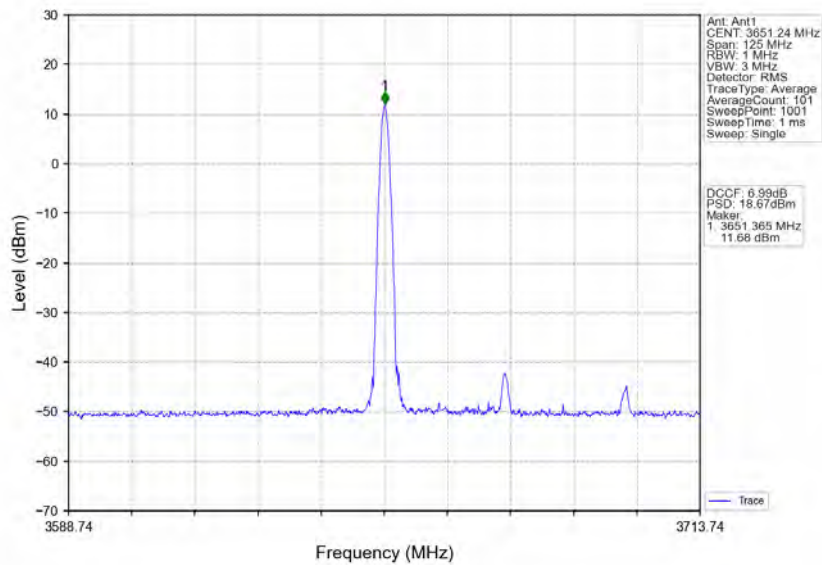
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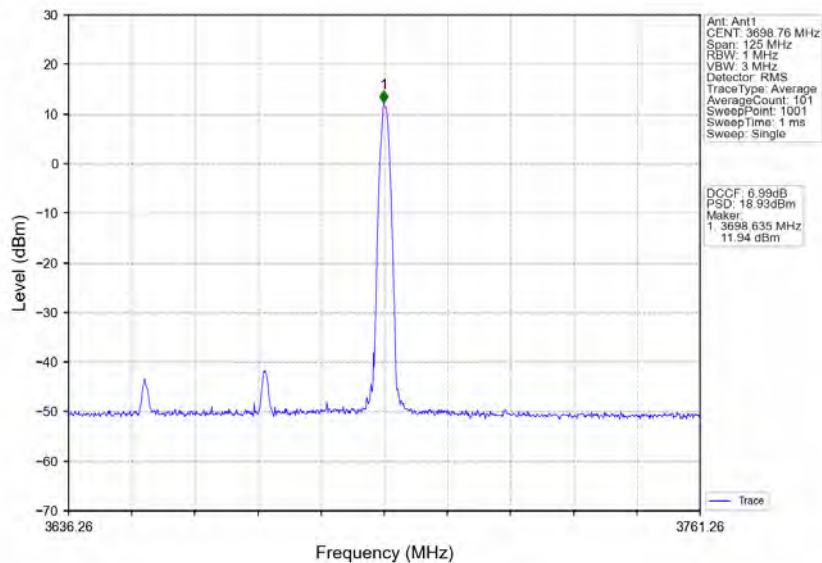
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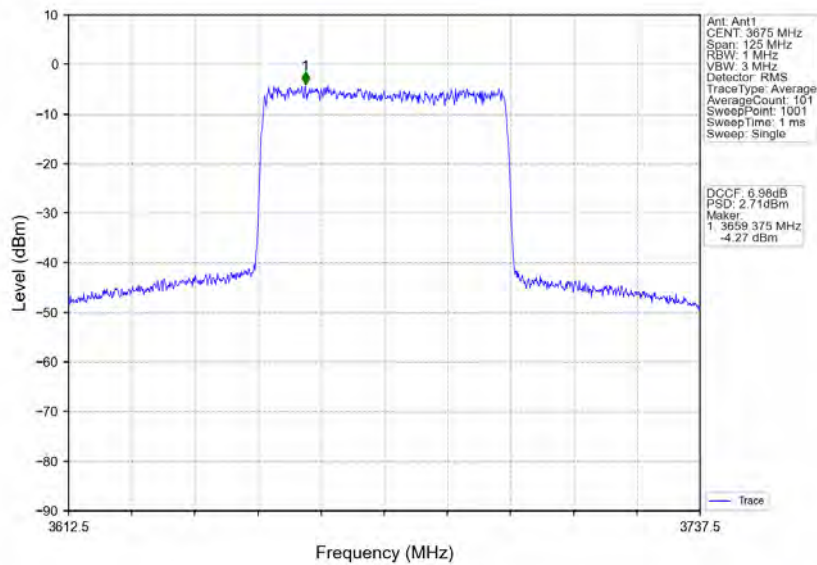
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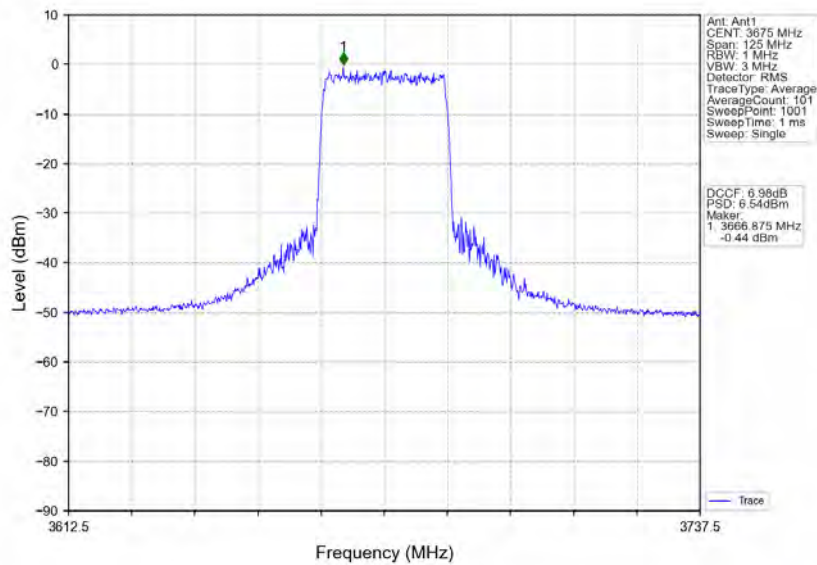
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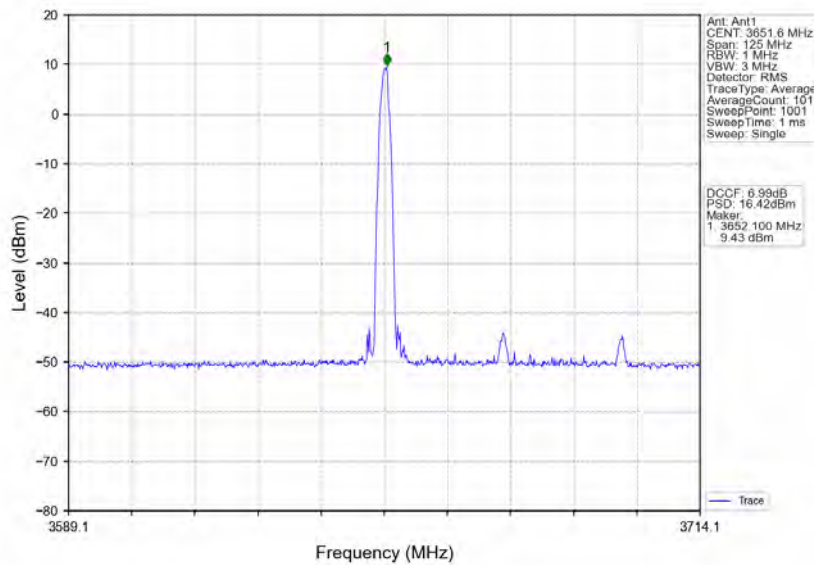
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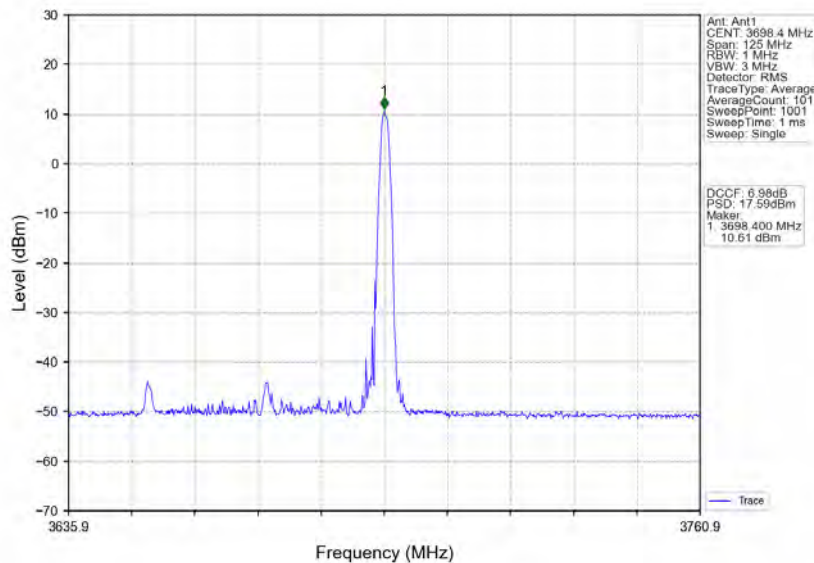
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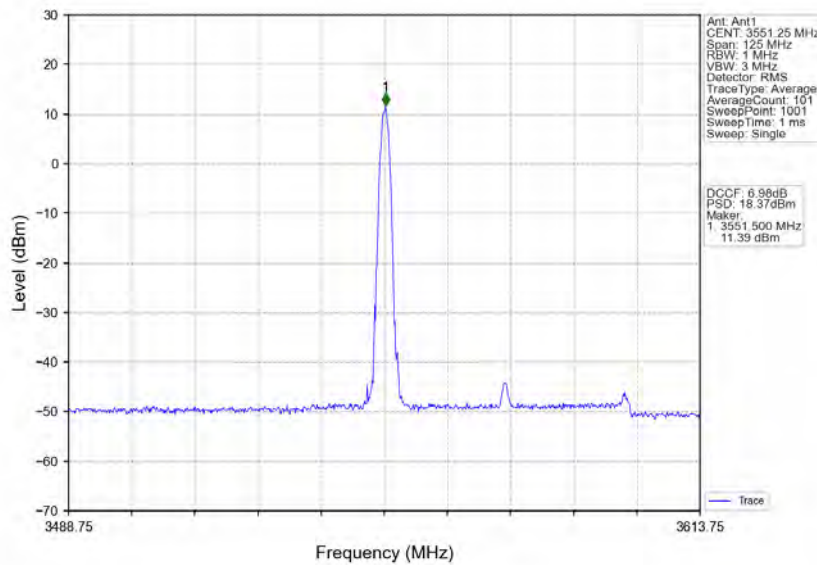
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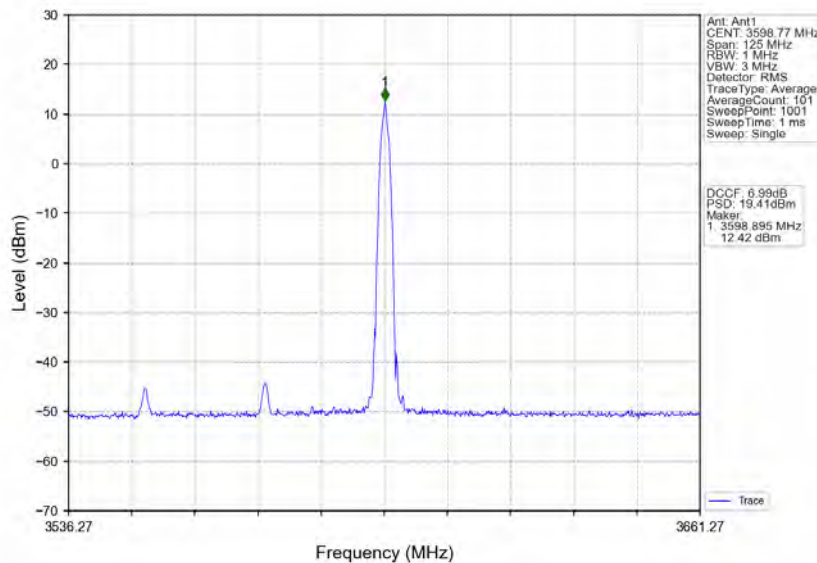
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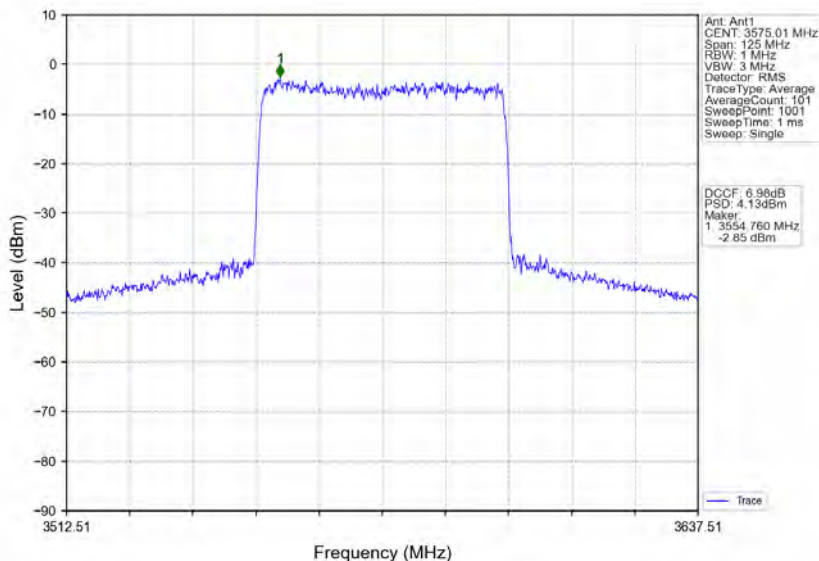
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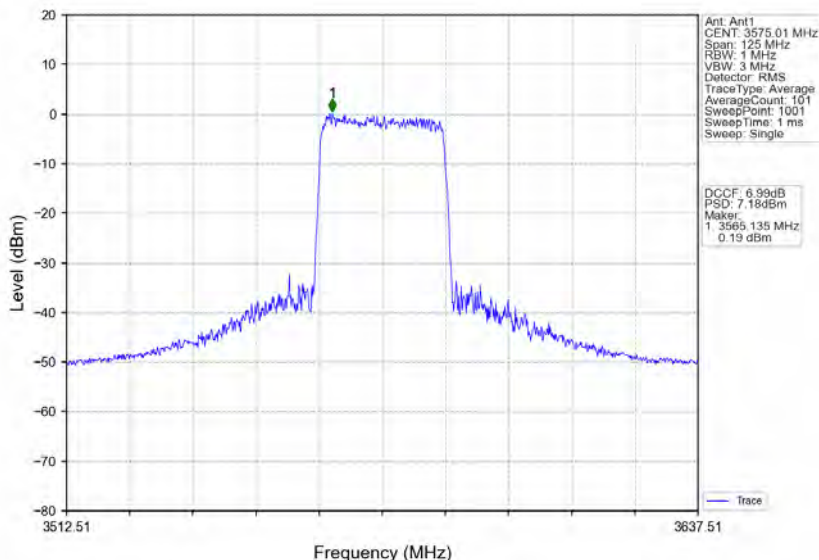
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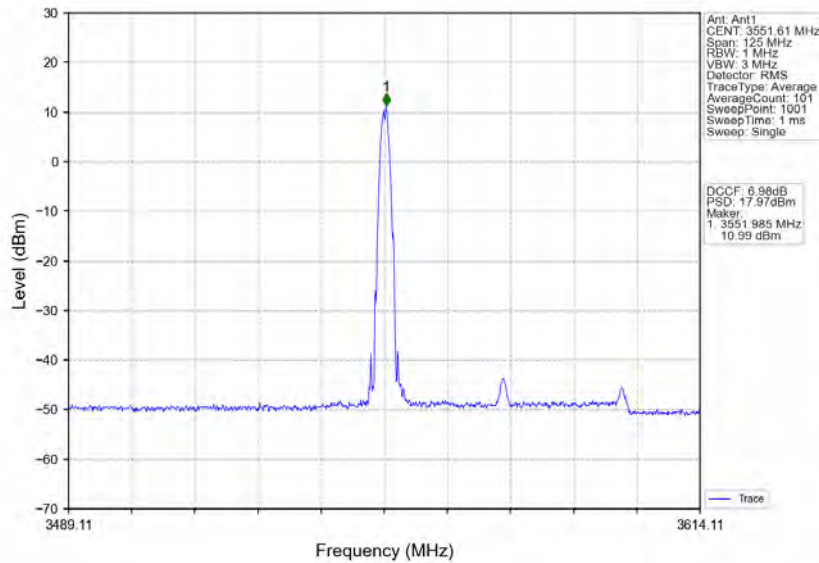
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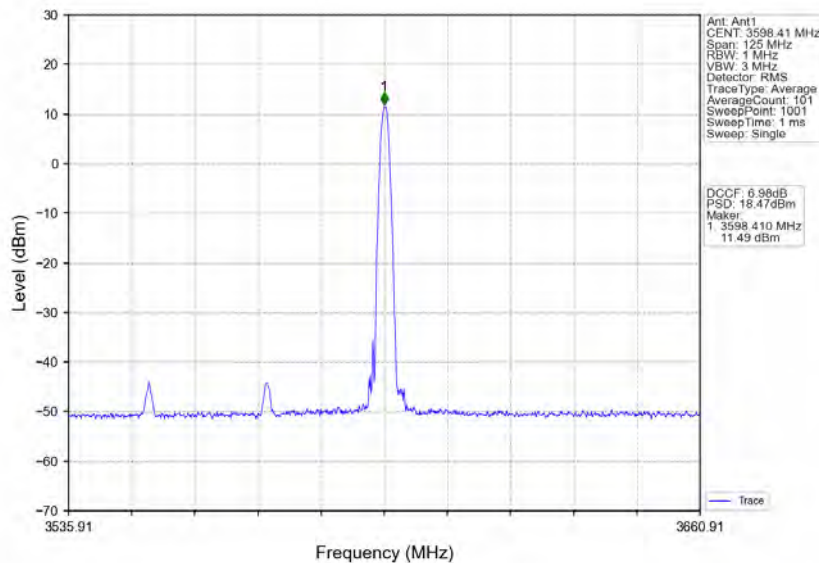
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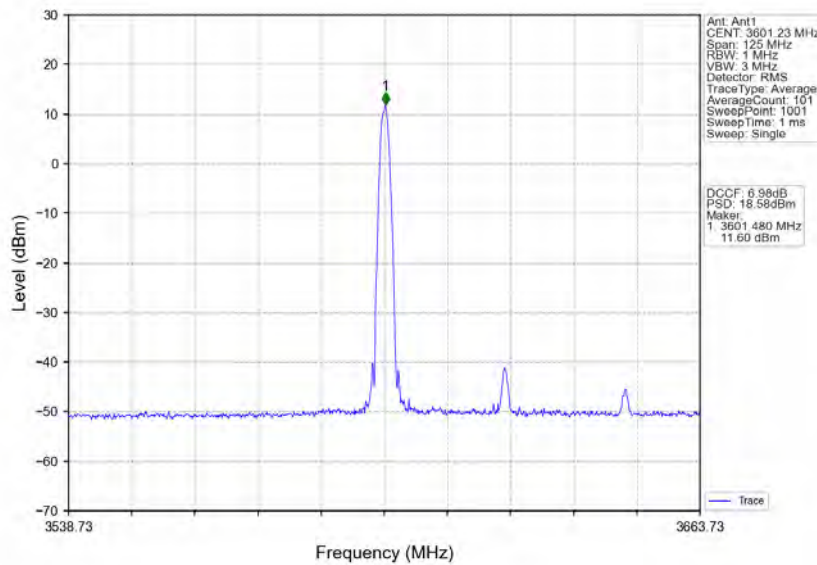
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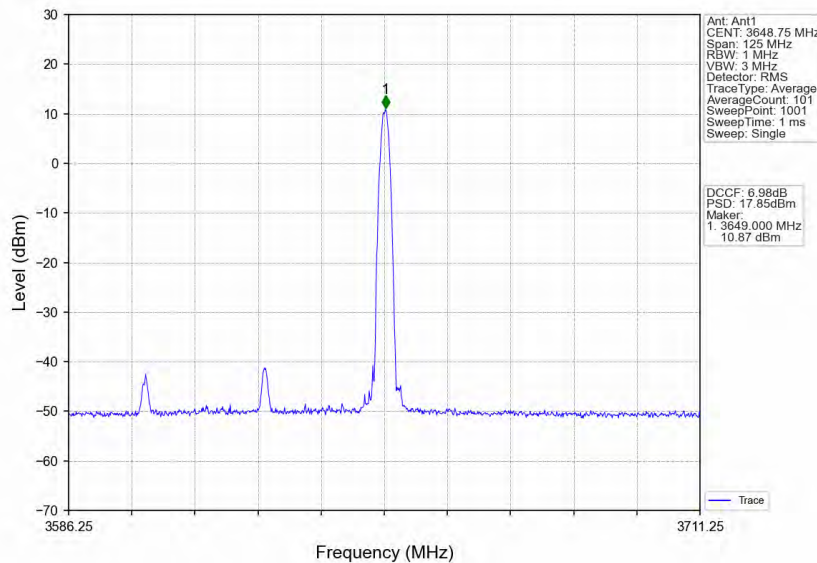
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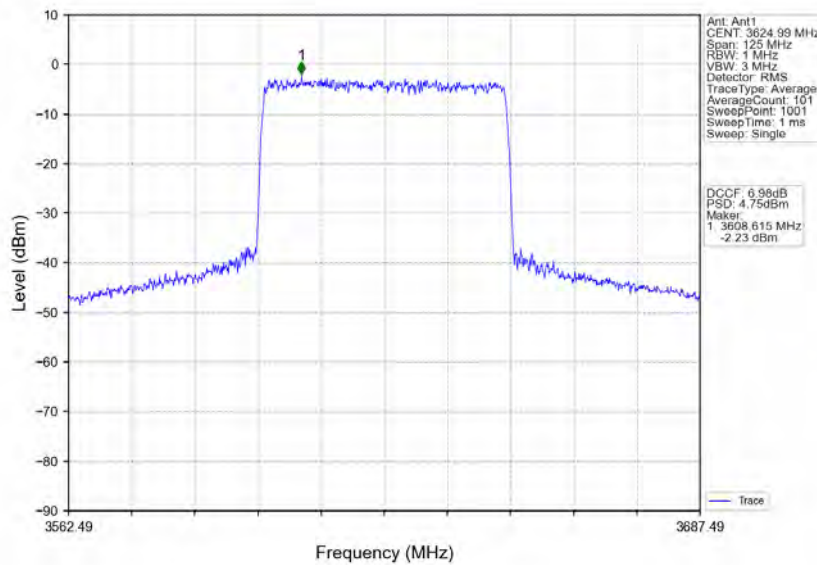
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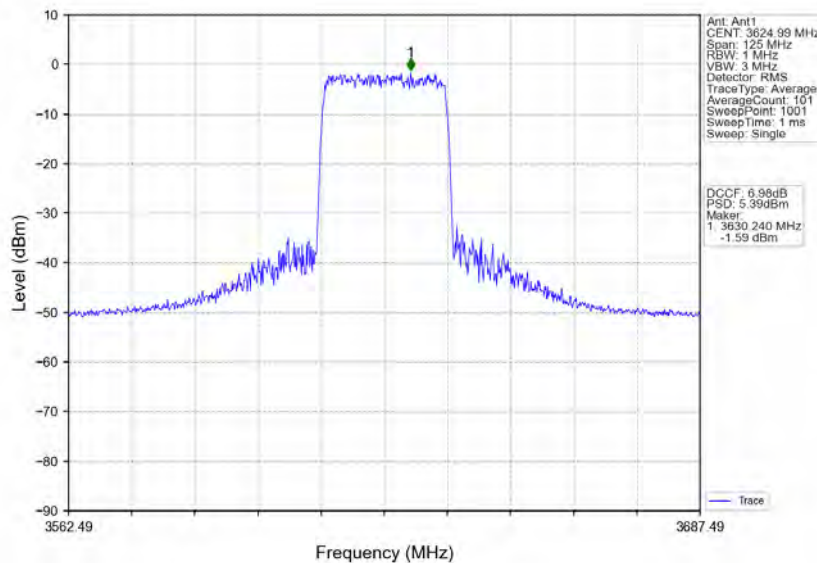
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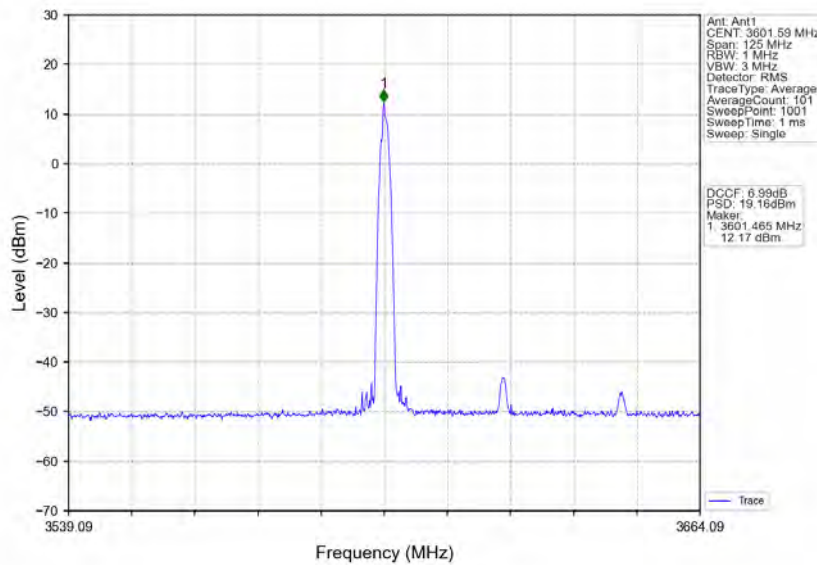
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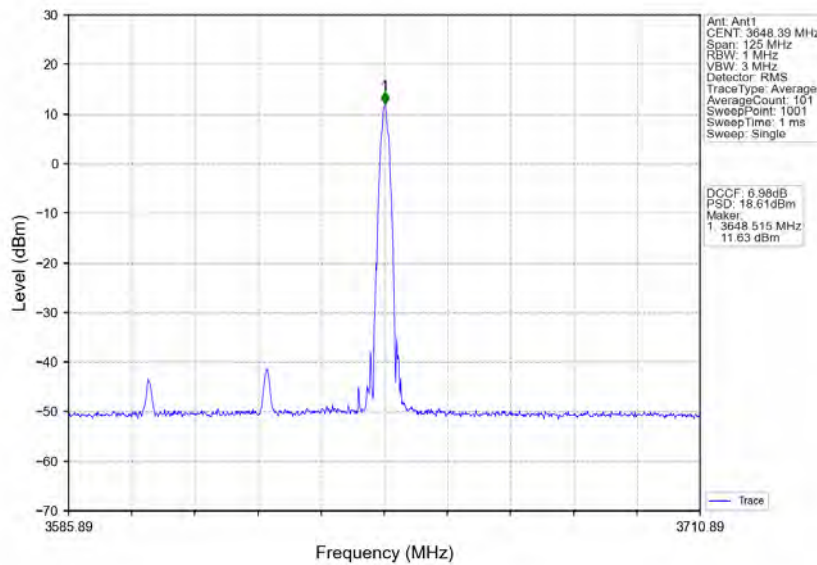
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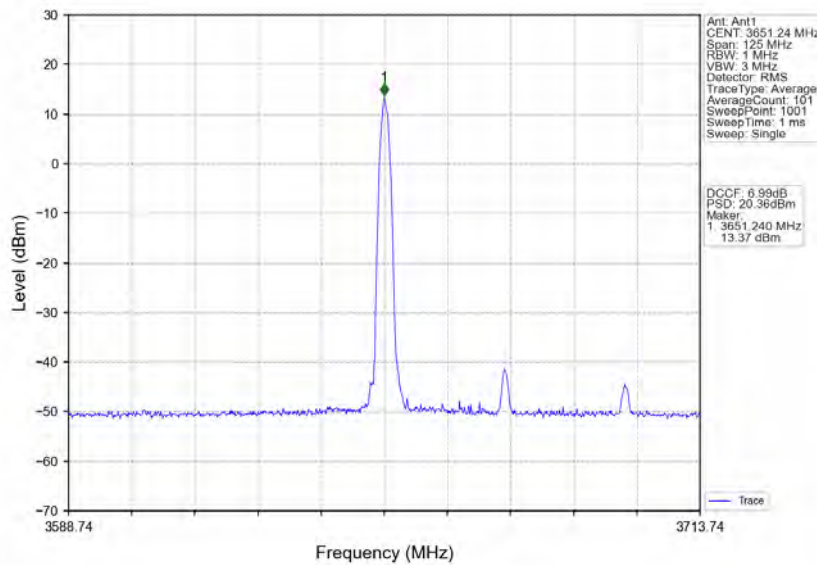
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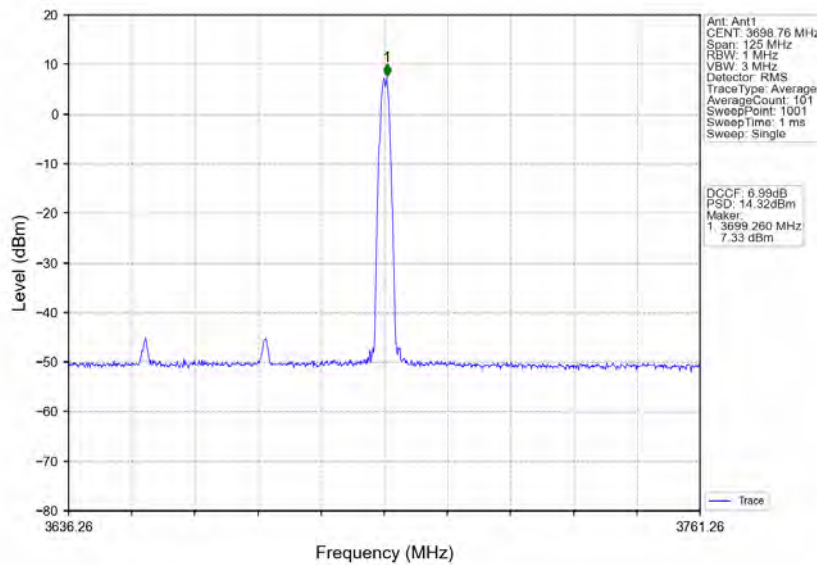
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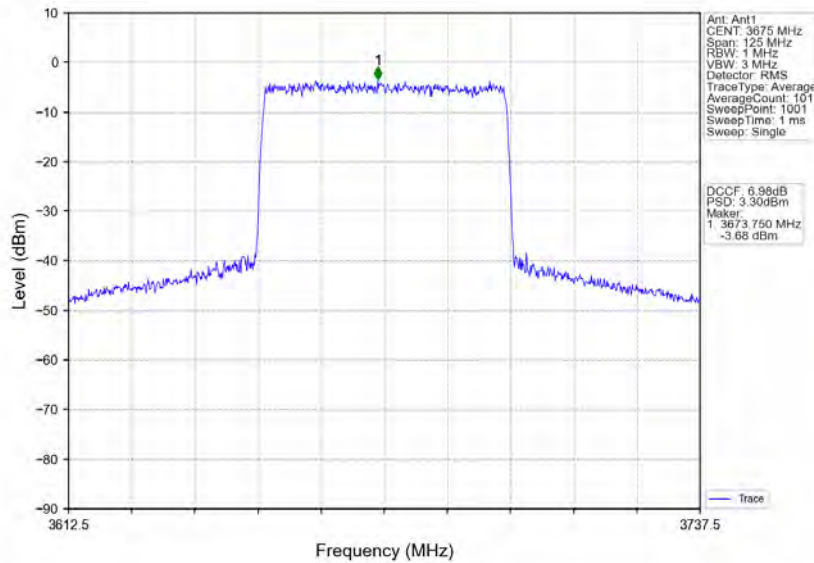
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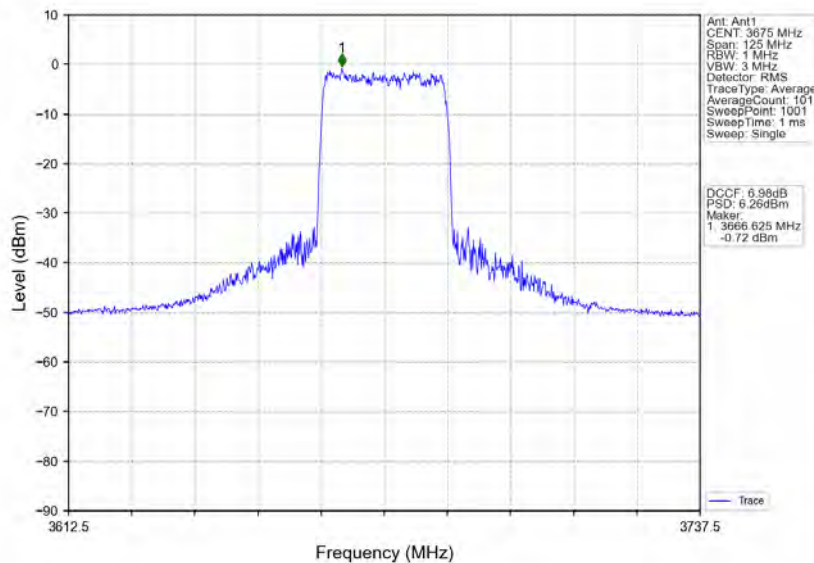
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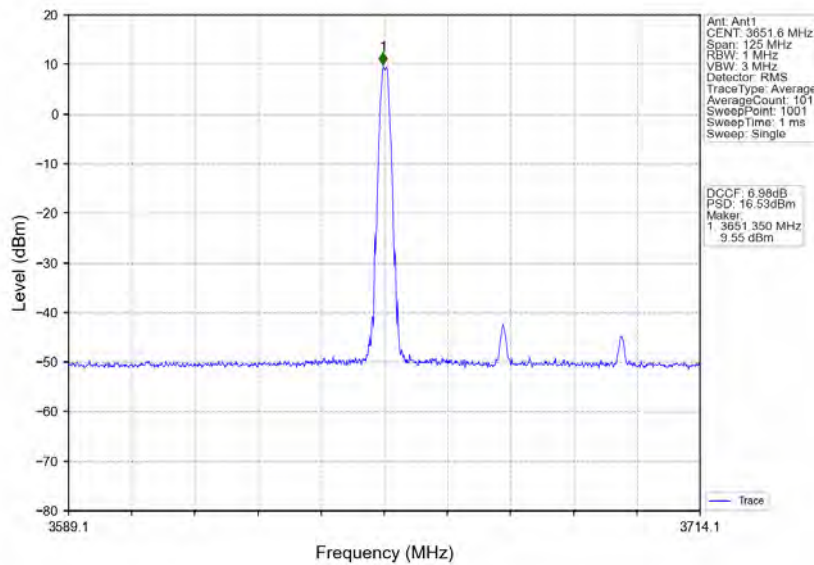
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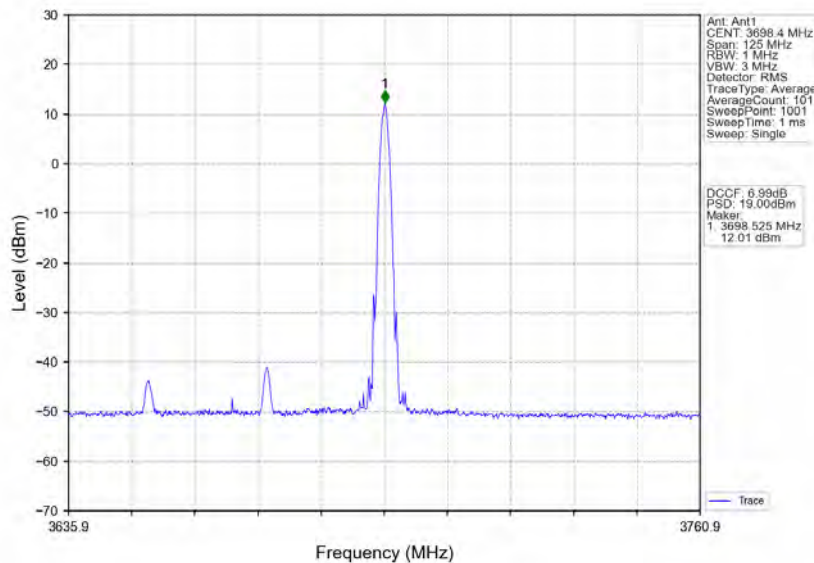
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n78d_30kHz_MIMO_NTNV_50MHz_CP-OFDM 64 QAM_3675MHz_Inner_1RB_Left



n78d_30kHz_MIMO_NTNV_50MHz_CP-OFDM 64 QAM_3675MHz_Inner_1RB_Right



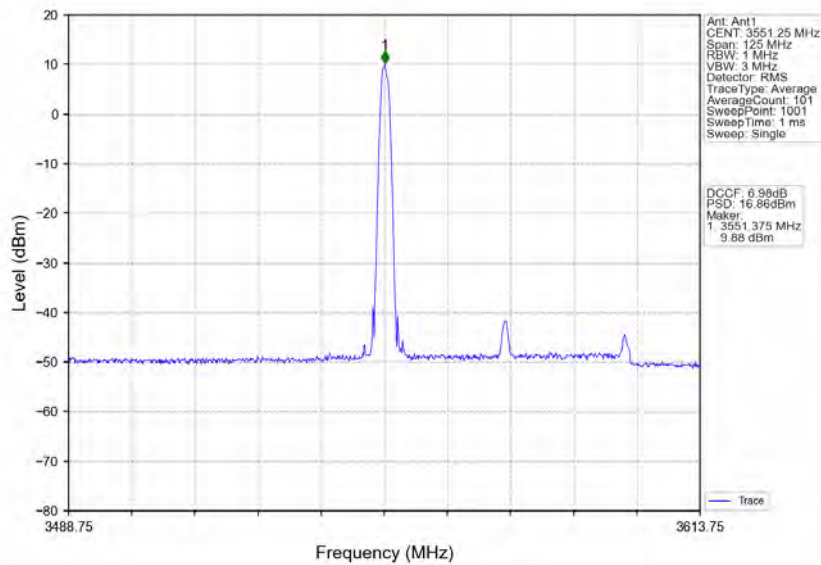
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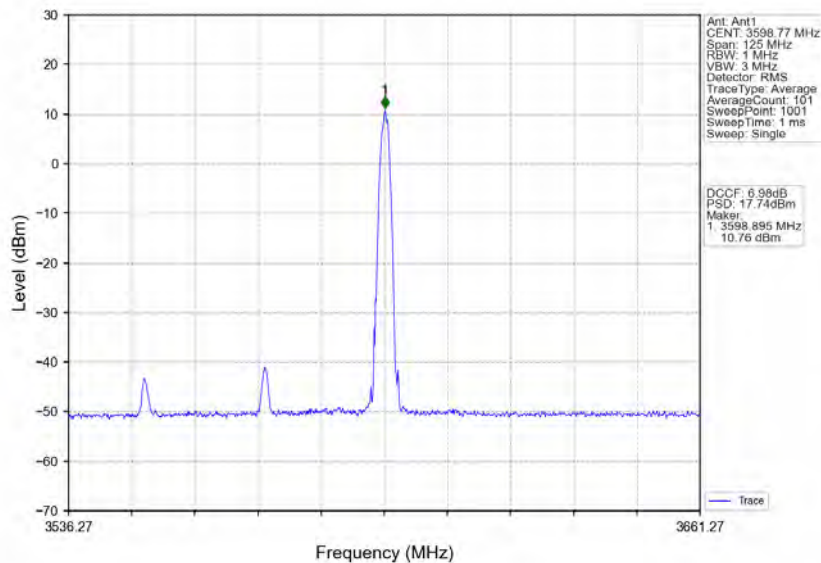
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n78d_30kHz_MIMO_NTNV_50MHz_CP-OFDM 256 QAM_3575.01MHz_Edge_1RB_Left



n78d_30kHz_MIMO_NTNV_50MHz_CP-OFDM 256 QAM_3575.01MHz_Edge_1RB_Right



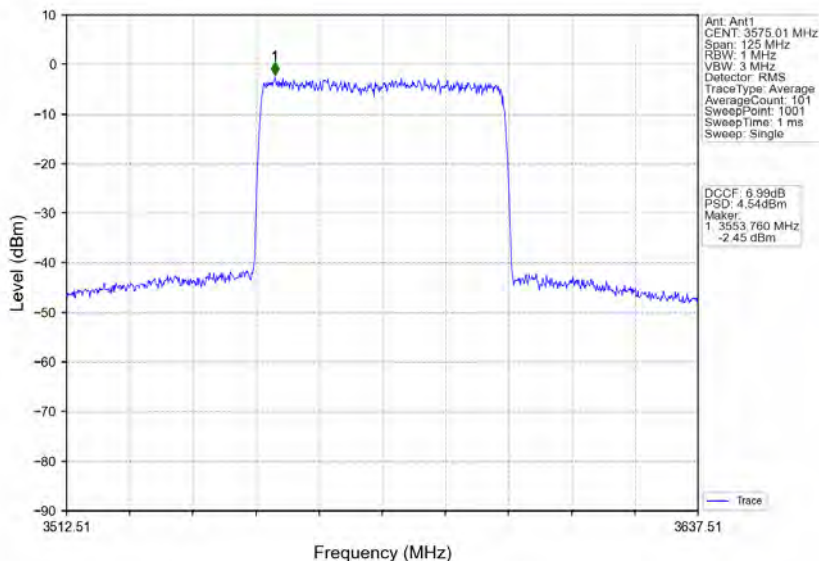
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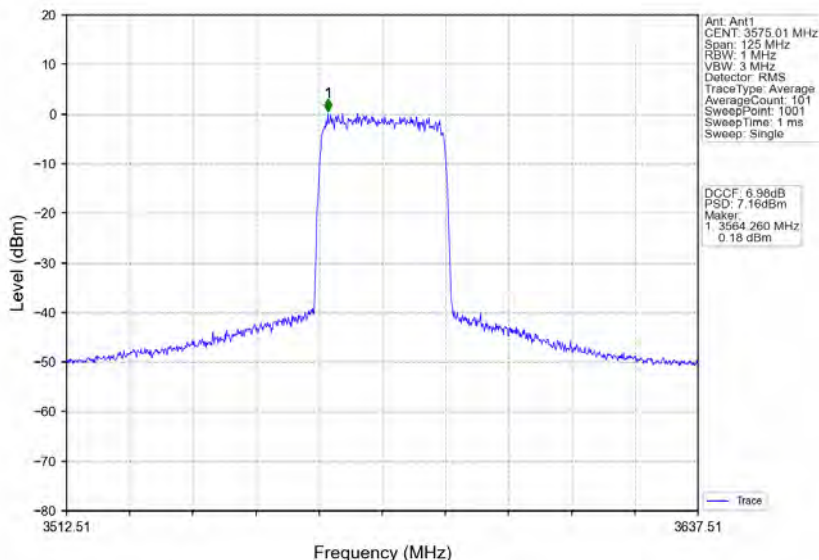
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n78d_30kHz_MIMO_NTNV_50MHz_CP-OFDM 256 QAM_3575.01MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_50MHz_CP-OFDM 256 QAM_3575.01MHz_Inner_Full



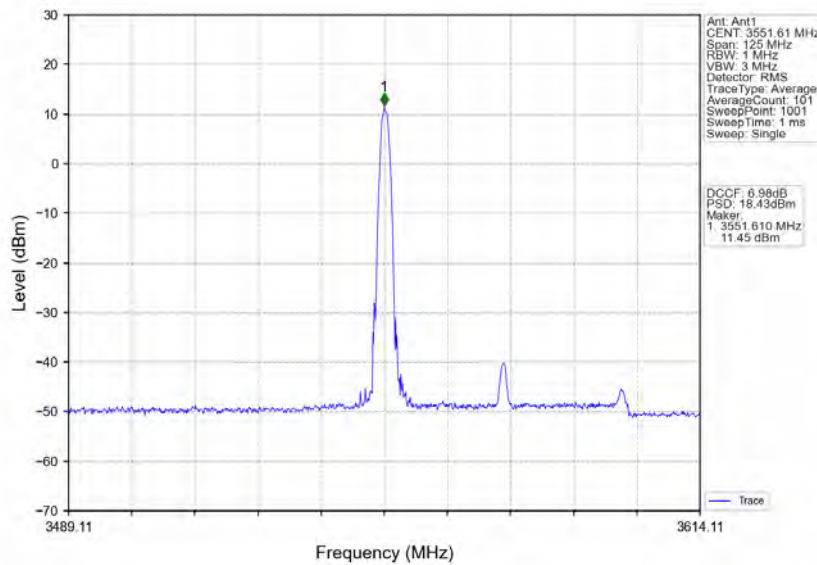
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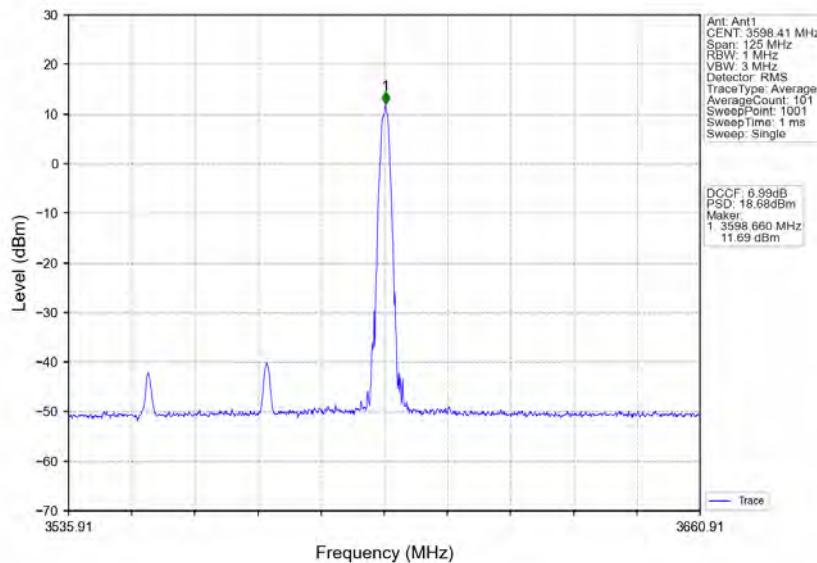
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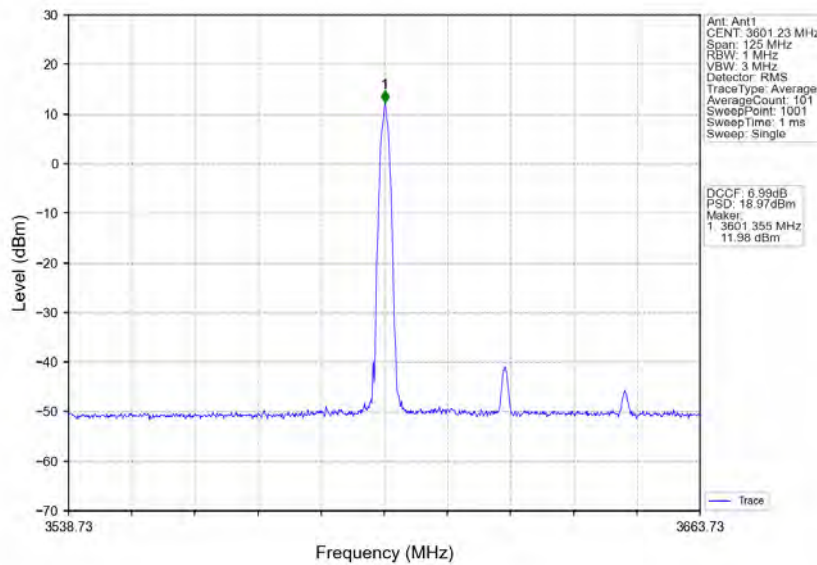
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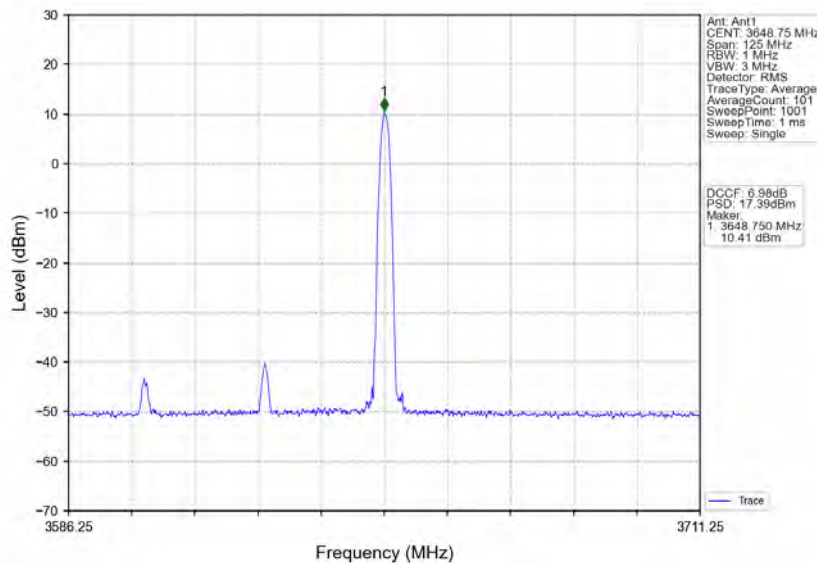
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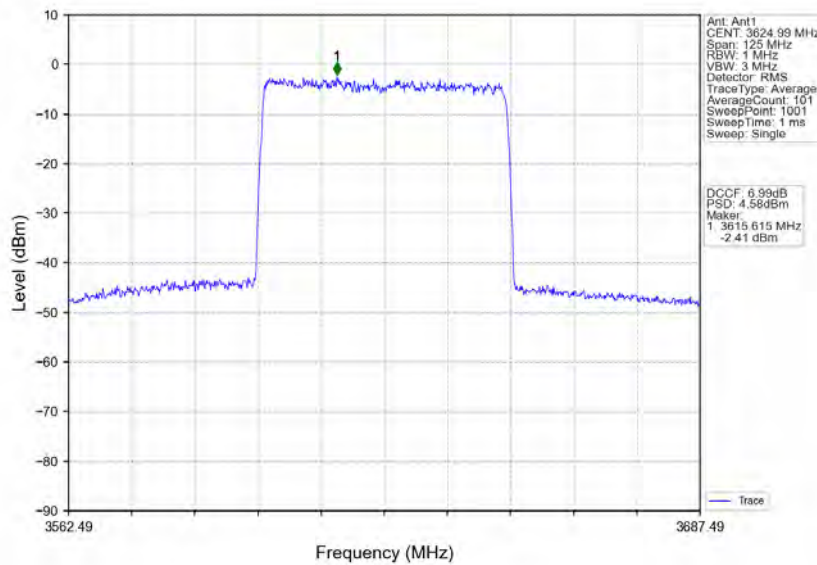
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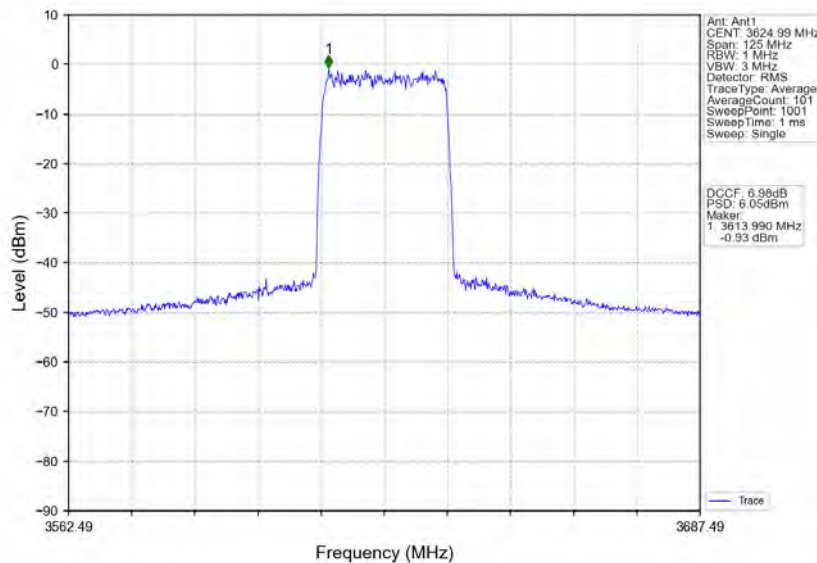
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n78d_30kHz_MIMO_NTNV_50MHz_CP-OFDM 256 QAM_3624.99MHz_Outer_Full



n78d_30kHz_MIMO_NTNV_50MHz_CP-OFDM 256 QAM_3624.99MHz_Inner_Full



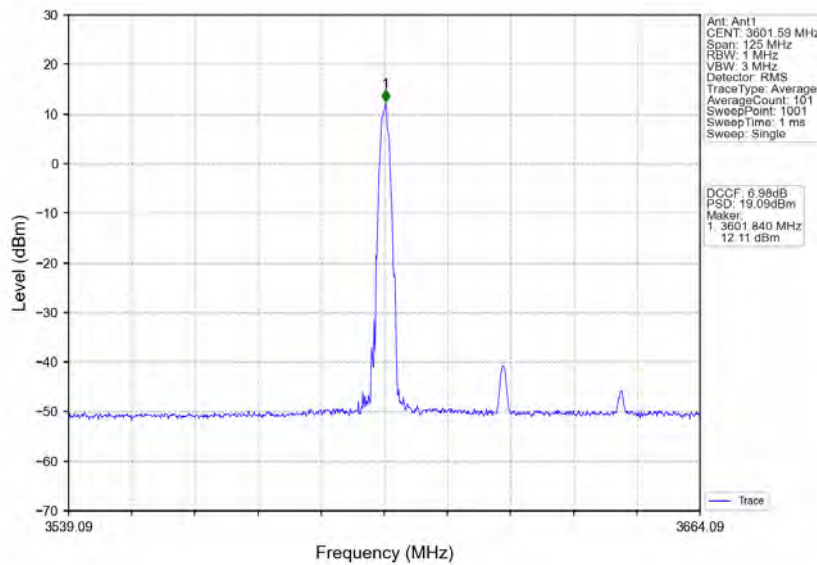
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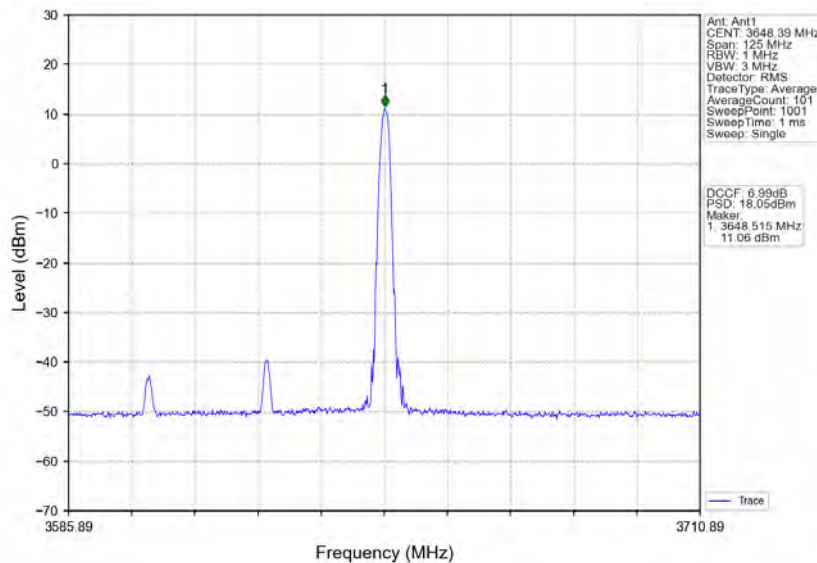
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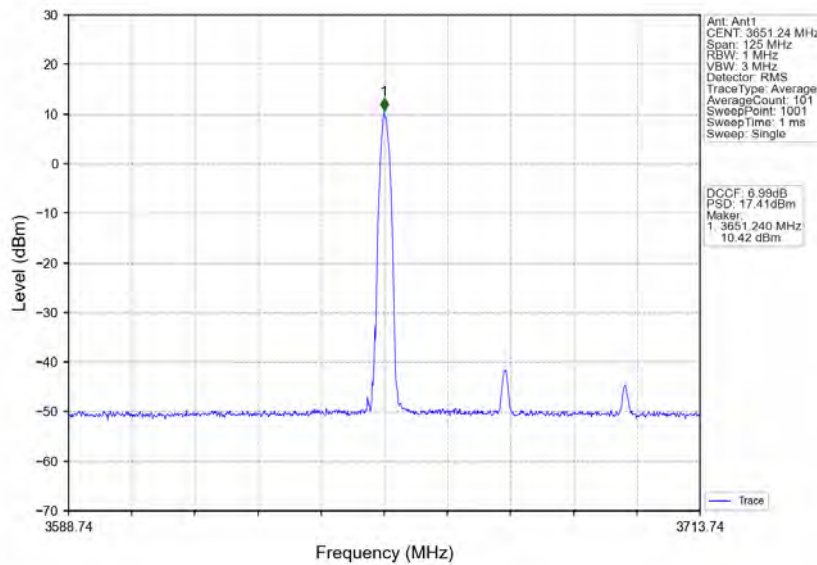
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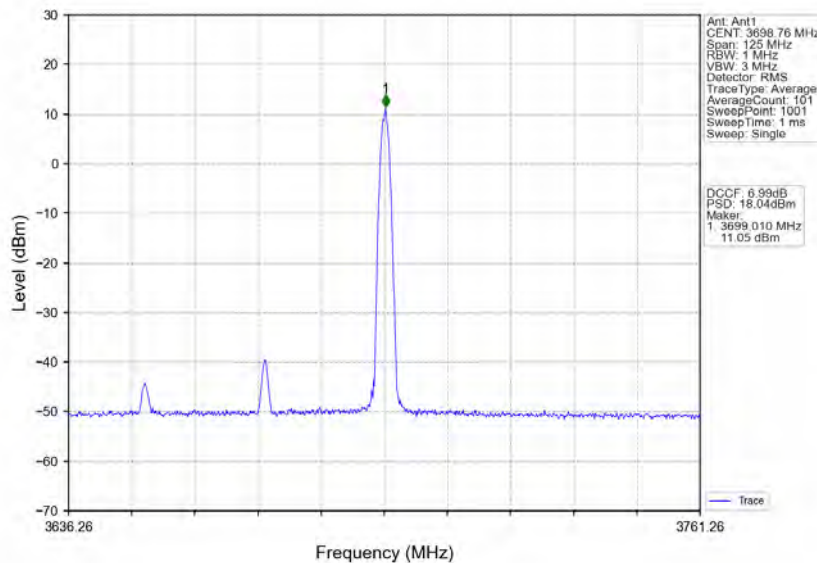
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n78d_30kHz_MIMO_NTNV_50MHz_CP-OFDM 256 QAM_3675MHz_Edge_1RB_Right



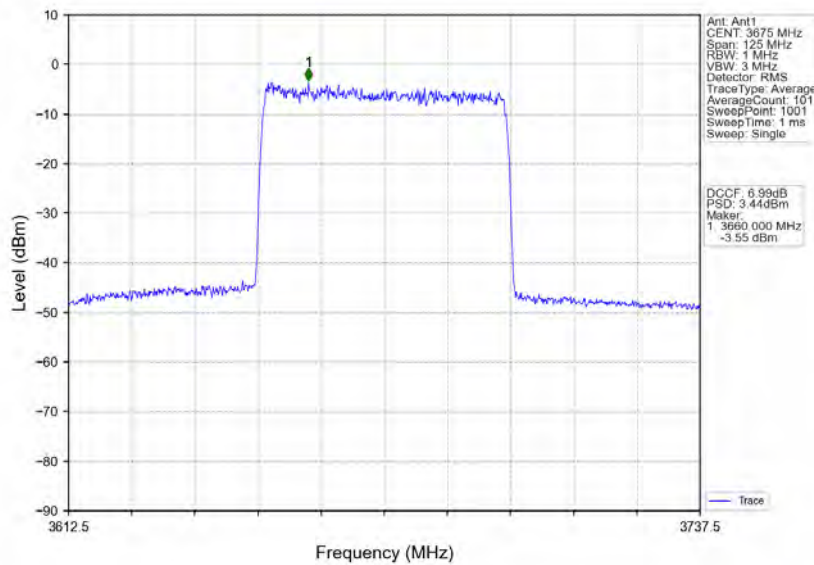
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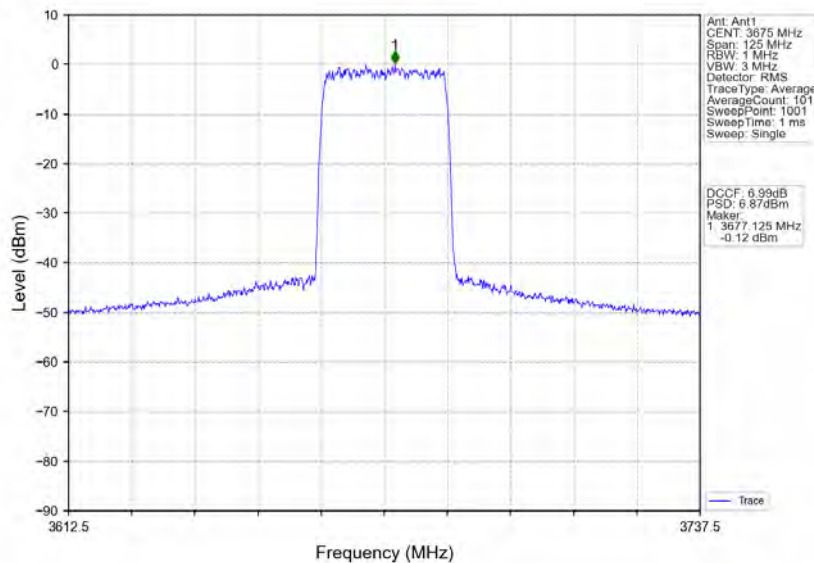
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n78d_30kHz_MIMO_NTNV_50MHz_CP-OFDM_256_QAM_3675MHz_Inner_Full



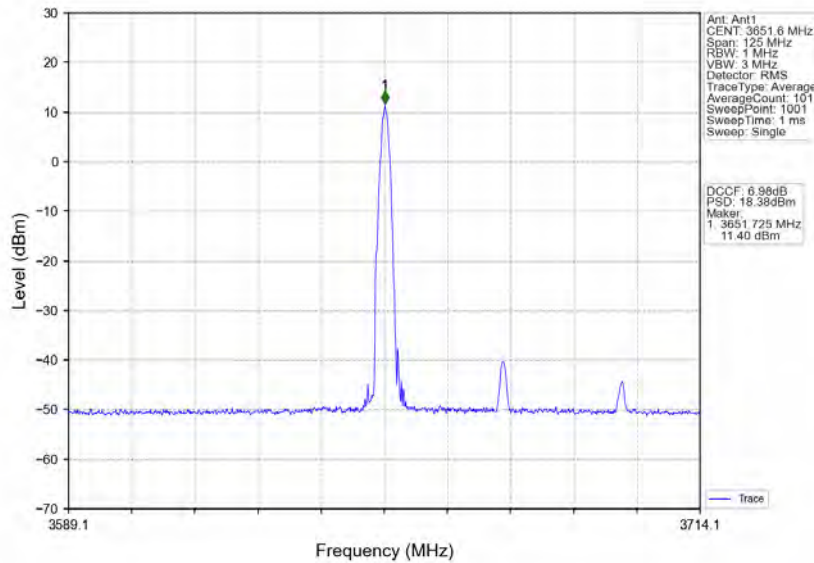
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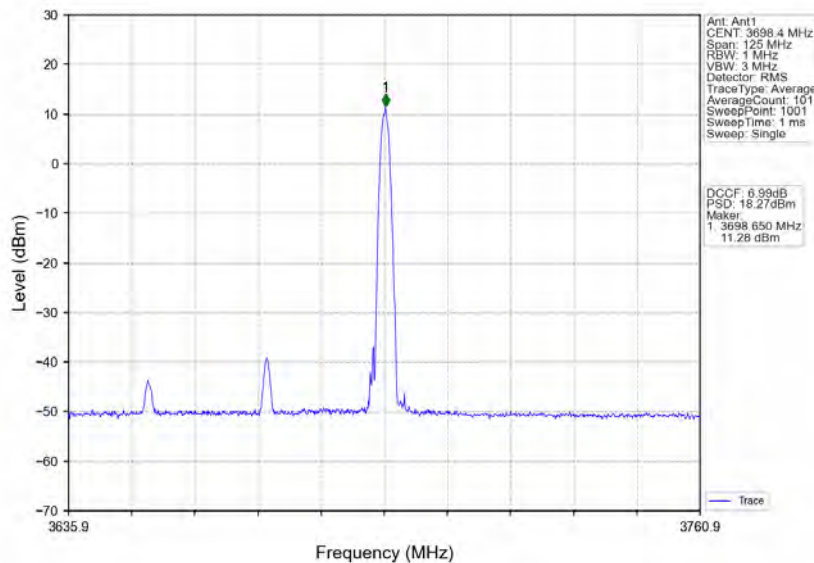
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n78d_30kHz_MIMO_NTNV_50MHz_CP-OFDM 256 QAM_3675MHz_Inner_1RB_Left



n78d_30kHz_MIMO_NTNV_50MHz_CP-OFDM 256 QAM_3675MHz_Inner_1RB_Right



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2.19 30k_MIMO_60MHz_NTNV_EIRP

2.19.1 Test Result

5G NR n78d SCS=30kHz MIMO 60MHz NTNv										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm)			EIRP(dBm)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3580.02	Edge_1RB_Left	18.91	18.92	21.93	33.23	33.27	36.26	-	Pass
		Edge_1RB_Right	19.06	19.13	22.11	33.38	33.48	36.44	-	Pass
		Outer_Full	19.12	19.14	22.14	33.44	33.49	36.48	-	Pass
		Inner_Full	19.17	19.07	22.13	33.49	33.42	36.47	-	Pass
		Inner_1RB_Left	18.98	18.98	21.99	33.30	33.33	36.33	-	Pass
		Inner_1RB_Right	19.02	19.23	22.14	33.34	33.58	36.47	-	Pass
	3624.99	Edge_1RB_Left	19.00	19.00	22.01	33.32	33.35	36.35	-	Pass
		Edge_1RB_Right	18.97	18.96	21.98	33.29	33.31	36.31	-	Pass
		Outer_Full	19.17	19.18	22.19	33.49	33.53	36.52	-	Pass
		Inner_Full	19.23	19.20	22.23	33.55	33.55	36.56	-	Pass
		Inner_1RB_Left	19.13	19.17	22.16	33.45	33.52	36.50	-	Pass
		Inner_1RB_Right	18.88	18.98	21.94	33.20	33.33	36.28	-	Pass
	3669.99	Edge_1RB_Left	18.97	18.99	21.99	33.29	33.34	36.33	-	Pass
		Edge_1RB_Right	18.67	18.62	21.66	32.99	32.97	35.99	-	Pass
		Outer_Full	18.83	18.86	21.86	33.15	33.21	36.19	-	Pass
		Inner_Full	18.84	18.78	21.82	33.16	33.13	36.16	-	Pass
		Inner_1RB_Left	18.82	18.81	21.83	33.14	33.16	36.16	-	Pass
		Inner_1RB_Right	18.67	18.67	21.68	32.99	33.02	36.02	-	Pass
CP-OFDM 16 QAM	3580.02	Edge_1RB_Left	19.03	19.06	22.06	33.35	33.41	36.39	-	Pass
		Edge_1RB_Right	19.26	19.25	22.27	33.58	33.60	36.60	-	Pass
		Outer_Full	19.22	19.16	22.20	33.54	33.51	36.54	-	Pass
		Inner_Full	19.16	19.13	22.16	33.48	33.48	36.49	-	Pass
		Inner_1RB_Left	19.19	19.14	22.18	33.51	33.49	36.51	-	Pass
		Inner_1RB_Right	19.33	19.20	22.28	33.65	33.55	36.61	-	Pass
	3624.99	Edge_1RB_Left	19.10	19.24	22.18	33.42	33.59	36.52	-	Pass
		Edge_1RB_Right	19.02	19.07	22.06	33.34	33.42	36.39	-	Pass
		Outer_Full	19.16	19.22	22.20	33.48	33.57	36.54	-	Pass
		Inner_Full	19.24	19.21	22.24	33.56	33.56	36.57	-	Pass
		Inner_1RB_Left	19.22	19.12	22.18	33.54	33.47	36.52	-	Pass
		Inner_1RB_Right	19.13	19.10	22.13	33.45	33.45	36.46	-	Pass
	3669.99	Edge_1RB_Left	19.10	19.08	22.10	33.42	33.43	36.44	-	Pass
		Edge_1RB_Right	18.83	18.88	21.87	33.15	33.23	36.20	-	Pass
		Outer_Full	18.87	18.83	21.86	33.19	33.18	36.20	-	Pass
		Inner_Full	18.73	18.68	21.72	33.05	33.03	36.05	-	Pass
		Inner_1RB_Left	19.05	19.05	22.06	33.37	33.40	36.40	-	Pass
		Inner_1RB_Right	18.74	18.92	21.84	33.06	33.27	36.18	-	Pass
CP-OFDM 64 QAM	3580.02	Edge_1RB_Left	19.16	19.08	22.13	33.48	33.43	36.47	-	Pass
		Edge_1RB_Right	19.15	19.17	22.17	33.47	33.52	36.51	-	Pass
		Outer_Full	19.15	19.10	22.14	33.47	33.45	36.47	-	Pass
		Inner_Full	19.15	19.10	22.14	33.47	33.45	36.47	-	Pass
		Inner_1RB_Left	19.11	19.07	22.10	33.43	33.42	36.44	-	Pass
		Inner_1RB_Right	19.25	19.34	22.31	33.57	33.69	36.64	-	Pass
	3624.99	Edge_1RB_Left	19.22	19.21	22.23	33.54	33.56	36.56	-	Pass
		Edge_1RB_Right	19.09	19.08	22.10	33.41	33.43	36.43	-	Pass

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CP-OFDM 256 QAM	3669.99	Outer_Full	19.20	19.21	22.22	33.52	33.56	36.55	-	Pass	
		Inner_Full	19.21	19.24	22.24	33.53	33.59	36.57	-	Pass	
		Inner_1RB_Left	19.20	19.14	22.18	33.52	33.49	36.52	-	Pass	
		Inner_1RB_Right	19.17	19.10	22.15	33.49	33.45	36.48	-	Pass	
	3669.99	Edge_1RB_Left	18.94	19.05	22.01	33.26	33.40	36.34	-	Pass	
		Edge_1RB_Right	18.95	18.78	21.88	33.27	33.13	36.21	-	Pass	
		Outer_Full	18.90	18.83	21.88	33.22	33.18	36.21	-	Pass	
		Inner_Full	18.82	18.76	21.80	33.14	33.11	36.14	-	Pass	
	CP-OFDM 256 QAM	3580.02	Inner_1RB_Left	19.29	19.15	22.23	33.61	33.50	36.57	-	Pass
			Inner_1RB_Right	18.81	18.90	21.87	33.13	33.25	36.20	-	Pass
			Edge_1RB_Left	19.04	18.93	22.00	33.36	33.28	36.33	-	Pass
			Edge_1RB_Right	19.13	19.14	22.15	33.45	33.49	36.48	-	Pass
		3624.99	Outer_Full	19.14	19.14	22.15	33.46	33.49	36.49	-	Pass
			Inner_Full	19.19	19.17	22.19	33.51	33.52	36.53	-	Pass
			Inner_1RB_Left	18.90	19.04	21.98	33.22	33.39	36.32	-	Pass
			Inner_1RB_Right	19.14	19.19	22.18	33.46	33.54	36.51	-	Pass
Edge_1RB_Left			19.04	19.06	22.06	33.36	33.41	36.40	-	Pass	
Edge_1RB_Right			18.91	18.86	21.90	33.23	33.21	36.23	-	Pass	
Outer_Full			19.14	19.18	22.17	33.46	33.53	36.51	-	Pass	
Inner_Full			19.24	19.26	22.26	33.56	33.61	36.60	-	Pass	
3669.99		Inner_1RB_Left	19.04	18.96	22.01	33.36	33.31	36.35	-	Pass	
		Inner_1RB_Right	18.92	18.90	21.92	33.24	33.25	36.26	-	Pass	
		Edge_1RB_Left	18.86	18.98	21.93	33.18	33.33	36.27	-	Pass	
		Edge_1RB_Right	18.59	18.67	21.64	32.91	33.02	35.98	-	Pass	
	Outer_Full	18.90	18.88	21.90	33.22	33.23	36.24	-	Pass		
	Inner_Full	18.92	18.80	21.87	33.24	33.15	36.21	-	Pass		
	Inner_1RB_Left	18.79	18.97	21.89	33.11	33.32	36.23	-	Pass		
	Inner_1RB_Right	18.68	18.79	21.75	33.00	33.14	36.08	-	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>											

2.20 30k_MIMO_60MHz_NTNV_EIRP/10MHz

2.20.1 Test Result

5G NR n78d SCS=30kHz MIMO 60MHz NTN										
Modulation	Frequency (MHz)	RB Allocation	Conducted Power(dBm/10MHz)			EIRP(dBm/10MHz)				Verdict
			Ant1	Ant2	Sum	Ant1	Ant2	Sum	Limit	
CP-OFDM QPSK	3580.02	Edge_1RB_Left	18.07	17.82	20.96	32.39	32.17	35.29	<=47	Pass
		Edge_1RB_Right	18.41	18.35	21.39	32.73	32.70	35.73	<=47	Pass
		Outer_Full	11.20	11.51	14.37	25.52	25.86	28.70	<=47	Pass
		Inner_Full	13.56	14.14	16.87	27.88	28.49	31.21	<=47	Pass
		Inner_1RB_Left	18.54	18.34	21.45	32.86	32.69	35.79	<=47	Pass
		Inner_1RB_Right	18.66	16.23	20.62	32.98	30.58	34.95	<=47	Pass
	3624.99	Edge_1RB_Left	17.44	18.62	21.08	31.76	32.97	35.42	<=47	Pass
		Edge_1RB_Right	16.95	18.46	20.78	31.27	32.81	35.12	<=47	Pass
		Outer_Full	10.99	9.95	13.51	25.31	24.30	27.84	<=47	Pass
		Inner_Full	13.76	13.10	16.45	28.08	27.45	30.79	<=47	Pass
	3669.99	Inner_1RB_Left	19.05	18.66	21.87	33.37	33.01	36.20	<=47	Pass
		Inner_1RB_Right	17.80	18.93	21.41	32.12	33.28	35.75	<=47	Pass
		Edge_1RB_Left	17.71	17.20	20.47	32.03	31.55	34.81	<=47	Pass
		Edge_1RB_Right	17.71	17.20	20.47	32.03	31.55	34.81	<=47	Pass

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