

Appendix V for KSCR2205000668AT-FCC-LTE-Band30

1. Effective (Isotropic) Radiated Power Output Data

1.1 B30_5MHz_EIRP

1.1.1 Test Result

Band: 30 / Bandwidth: 5MHz / NTNv								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	EIRP (dBm/5M)		Verdict
		Size	Offset			Result	Limit	
QPSK	2307.5	1	0	22.53	0.69	23.22	<=23.98	Pass
			13	22.65	0.69	23.34	<=23.98	Pass
			24	22.54	0.69	23.23	<=23.98	Pass
		12	0	21.60	0.69	22.29	<=23.98	Pass
			6	21.68	0.69	22.37	<=23.98	Pass
			13	21.64	0.69	22.33	<=23.98	Pass
		25	0	21.59	0.69	22.28	<=23.98	Pass
			0	22.54	0.69	23.23	<=23.98	Pass
			13	22.68	0.69	23.37	<=23.98	Pass
	2310	1	24	22.56	0.69	23.25	<=23.98	Pass
			0	21.62	0.69	22.31	<=23.98	Pass
			6	21.69	0.69	22.38	<=23.98	Pass
		12	13	21.65	0.69	22.34	<=23.98	Pass
			0	21.58	0.69	22.27	<=23.98	Pass
			0	22.56	0.69	23.25	<=23.98	Pass
		25	13	22.71	0.69	23.40	<=23.98	Pass
			24	22.58	0.69	23.27	<=23.98	Pass
			0	21.62	0.69	22.31	<=23.98	Pass
	2312.5	1	6	21.72	0.69	22.41	<=23.98	Pass
			13	21.69	0.69	22.38	<=23.98	Pass
			0	21.64	0.69	22.33	<=23.98	Pass
		12	0	21.79	0.69	22.48	<=23.98	Pass
			13	21.92	0.69	22.61	<=23.98	Pass
			24	21.77	0.69	22.46	<=23.98	Pass
25		0	20.62	0.69	21.31	<=23.98	Pass	
		6	20.72	0.69	21.41	<=23.98	Pass	
		13	20.67	0.69	21.36	<=23.98	Pass	
16QAM	2307.5	1	0	20.65	0.69	21.34	<=23.98	Pass
			0	21.61	0.69	22.30	<=23.98	Pass
			13	21.73	0.69	22.42	<=23.98	Pass
		12	24	21.63	0.69	22.32	<=23.98	Pass
			0	20.61	0.69	21.30	<=23.98	Pass
			6	20.67	0.69	21.36	<=23.98	Pass
		25	13	20.63	0.69	21.32	<=23.98	Pass
			0	20.67	0.69	21.36	<=23.98	Pass
			0	21.39	0.69	22.08	<=23.98	Pass
	2310	1	13	21.52	0.69	22.21	<=23.98	Pass
			24	21.39	0.69	22.08	<=23.98	Pass
			0	20.63	0.69	21.32	<=23.98	Pass
		12	6	20.71	0.69	21.40	<=23.98	Pass
			13	20.66	0.69	21.35	<=23.98	Pass

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64QAM	2307.5	25	0	20.70	0.69	21.39	<=23.98	Pass	
			1	0	20.85	0.69	21.54	<=23.98	Pass
				13	20.99	0.69	21.68	<=23.98	Pass
		12	24	20.68	0.69	21.37	<=23.98	Pass	
			0	19.64	0.69	20.33	<=23.98	Pass	
			6	19.72	0.69	20.41	<=23.98	Pass	
	2310	25	13	19.64	0.69	20.33	<=23.98	Pass	
			0	19.68	0.69	20.37	<=23.98	Pass	
			1	0	20.71	0.69	21.40	<=23.98	Pass
		12	13	20.85	0.69	21.54	<=23.98	Pass	
			24	20.73	0.69	21.42	<=23.98	Pass	
			0	19.77	0.69	20.46	<=23.98	Pass	
	2312.5	25	6	19.85	0.69	20.54	<=23.98	Pass	
			13	19.80	0.69	20.49	<=23.98	Pass	
			0	19.69	0.69	20.38	<=23.98	Pass	
		1	0	20.50	0.69	21.19	<=23.98	Pass	
			13	20.67	0.69	21.36	<=23.98	Pass	
			24	20.56	0.69	21.25	<=23.98	Pass	
	12	0	19.64	0.69	20.33	<=23.98	Pass		
		6	19.73	0.69	20.42	<=23.98	Pass		
		13	19.65	0.69	20.34	<=23.98	Pass		
	25	0	19.74	0.69	20.43	<=23.98	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

1.2 B30_10MHz_EIRP

1.2.1 Test Result

Band: 30 / Bandwidth: 10MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	EIRP (dBm/5M)		Verdict	
		Size	Offset			Result	Limit		
QPSK	2310	1	0	22.65	0.69	23.34	<=23.98	Pass	
			25	22.85	0.69	23.54	<=23.98	Pass	
			49	22.66	0.69	23.35	<=23.98	Pass	
		25	0	21.69	0.69	22.38	<=23.98	Pass	
			13	21.69	0.69	22.38	<=23.98	Pass	
			25	21.69	0.69	22.38	<=23.98	Pass	
	2310	50	0	21.71	0.69	22.40	<=23.98	Pass	
			1	0	22.63	0.69	23.32	<=23.98	Pass
			25	22.84	0.69	23.53	<=23.98	Pass	
		1	49	22.63	0.69	23.32	<=23.98	Pass	
			0	21.66	0.69	22.35	<=23.98	Pass	
			25	13	21.73	0.69	22.42	<=23.98	Pass
	2310	25	25	21.70	0.69	22.39	<=23.98	Pass	
			0	21.67	0.69	22.36	<=23.98	Pass	
			1	0	22.65	0.69	23.34	<=23.98	Pass
		1	25	22.86	0.69	23.55	<=23.98	Pass	
			49	22.71	0.69	23.40	<=23.98	Pass	
			0	21.66	0.69	22.35	<=23.98	Pass	
	25	13	21.72	0.69	22.41	<=23.98	Pass		
		25	21.69	0.69	22.38	<=23.98	Pass		
		0	21.67	0.69	22.36	<=23.98	Pass		

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16QAM	2310	1	0	22.14	0.69	22.83	<=23.98	Pass
			25	22.34	0.69	23.03	<=23.98	Pass
			49	22.16	0.69	22.85	<=23.98	Pass
		25	0	20.77	0.69	21.46	<=23.98	Pass
			13	20.79	0.69	21.48	<=23.98	Pass
			25	20.78	0.69	21.47	<=23.98	Pass
	50	0	20.74	0.69	21.43	<=23.98	Pass	
	2310	1	0	22.11	0.69	22.80	<=23.98	Pass
			25	22.32	0.69	23.01	<=23.98	Pass
			49	22.18	0.69	22.87	<=23.98	Pass
		25	0	20.77	0.69	21.46	<=23.98	Pass
			13	20.80	0.69	21.49	<=23.98	Pass
			25	20.77	0.69	21.46	<=23.98	Pass
	50	0	20.71	0.69	21.40	<=23.98	Pass	
	2310	1	0	22.20	0.69	22.89	<=23.98	Pass
			25	22.32	0.69	23.01	<=23.98	Pass
			49	22.20	0.69	22.89	<=23.98	Pass
		25	0	20.75	0.69	21.44	<=23.98	Pass
13			20.79	0.69	21.48	<=23.98	Pass	
25			20.76	0.69	21.45	<=23.98	Pass	
50	0	20.71	0.69	21.40	<=23.98	Pass		
64QAM	2310	1	0	20.81	0.69	21.50	<=23.98	Pass
			25	21.04	0.69	21.73	<=23.98	Pass
			49	20.87	0.69	21.56	<=23.98	Pass
		25	0	19.81	0.69	20.50	<=23.98	Pass
			13	19.82	0.69	20.51	<=23.98	Pass
			25	19.81	0.69	20.50	<=23.98	Pass
	50	0	19.79	0.69	20.48	<=23.98	Pass	
	2310	1	0	20.85	0.69	21.54	<=23.98	Pass
			25	21.03	0.69	21.72	<=23.98	Pass
			49	20.86	0.69	21.55	<=23.98	Pass
		25	0	19.79	0.69	20.48	<=23.98	Pass
			13	19.82	0.69	20.51	<=23.98	Pass
			25	19.81	0.69	20.50	<=23.98	Pass
	50	0	19.83	0.69	20.52	<=23.98	Pass	
	2310	1	0	20.84	0.69	21.53	<=23.98	Pass
			25	21.04	0.69	21.73	<=23.98	Pass
			49	20.87	0.69	21.56	<=23.98	Pass
		25	0	19.78	0.69	20.47	<=23.98	Pass
13			19.84	0.69	20.53	<=23.98	Pass	
25			19.81	0.69	20.50	<=23.98	Pass	
50	0	19.77	0.69	20.46	<=23.98	Pass		

Note1: EIRP=Conducted Power+Antenna Gain

2. Frequency Stability

2.1 B30_5MHz

2.1.1 Test Result

Band: 30 / Bandwidth: 5MHz



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Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict		
		Size	Offset				Result	Limit			
QPSK	2307.5	25	0	20	3.46	-9.112	-0.0039	-2.5 to 2.5	Pass		
					3.8	-2.275	-0.0010	-2.5 to 2.5	Pass		
					4.35	-3.591	-0.0016	-2.5 to 2.5	Pass		
				-30	3.8	-6.967	-0.0030	-2.5 to 2.5	Pass		
					-20	3.8	-5.293	-0.0023	-2.5 to 2.5	Pass	
					-10	3.8	-5.622	-0.0024	-2.5 to 2.5	Pass	
				0	3.8	-7.510	-0.0033	-2.5 to 2.5	Pass		
					10	3.8	-6.652	-0.0029	-2.5 to 2.5	Pass	
					30	3.8	-7.582	-0.0033	-2.5 to 2.5	Pass	
	2310	25	0	20	3.46	-8.125	-0.0035	-2.5 to 2.5	Pass		
					3.8	-5.064	-0.0022	-2.5 to 2.5	Pass		
					4.35	-10.443	-0.0045	-2.5 to 2.5	Pass		
				-30	3.8	-12.803	-0.0055	-2.5 to 2.5	Pass		
					-20	3.8	-11.287	-0.0049	-2.5 to 2.5	Pass	
					-10	3.8	-10.772	-0.0047	-2.5 to 2.5	Pass	
				0	3.8	-6.781	-0.0029	-2.5 to 2.5	Pass		
					10	3.8	-10.057	-0.0044	-2.5 to 2.5	Pass	
					30	3.8	-8.698	-0.0038	-2.5 to 2.5	Pass	
	2312.5	25	0	20	3.46	0.157	0.0001	-2.5 to 2.5	Pass		
					3.8	1.459	0.0006	-2.5 to 2.5	Pass		
					4.35	6.638	0.0029	-2.5 to 2.5	Pass		
				-30	3.8	1.688	0.0007	-2.5 to 2.5	Pass		
					-20	3.8	-0.572	-0.0002	-2.5 to 2.5	Pass	
					-10	3.8	-1.101	-0.0005	-2.5 to 2.5	Pass	
				0	3.8	4.535	0.0020	-2.5 to 2.5	Pass		
					10	3.8	-0.901	-0.0004	-2.5 to 2.5	Pass	
					30	3.8	-6.423	-0.0028	-2.5 to 2.5	Pass	
	16QAM	2307.5	25	0	20	3.46	-12.302	-0.0053	-2.5 to 2.5	Pass	
						3.8	-9.441	-0.0041	-2.5 to 2.5	Pass	
						4.35	-10.600	-0.0046	-2.5 to 2.5	Pass	
					-30	3.8	-7.710	-0.0033	-2.5 to 2.5	Pass	
						-20	3.8	-13.762	-0.0060	-2.5 to 2.5	Pass
						-10	3.8	-14.305	-0.0062	-2.5 to 2.5	Pass
					0	3.8	-3.290	-0.0014	-2.5 to 2.5	Pass	
						10	3.8	-2.246	-0.0010	-2.5 to 2.5	Pass
						30	3.8	-16.651	-0.0072	-2.5 to 2.5	Pass
2310	25	0	20	3.46	-13.804	-0.0060	-2.5 to 2.5	Pass			
				3.8	-13.075	-0.0057	-2.5 to 2.5	Pass			
				4.35	-10.958	-0.0047	-2.5 to 2.5	Pass			
			-30	3.8	-13.018	-0.0056	-2.5 to 2.5	Pass			
				-20	3.8	-3.448	-0.0015	-2.5 to 2.5	Pass		
				-10	3.8	-4.277	-0.0019	-2.5 to 2.5	Pass		
			0	3.8	-16.565	-0.0072	-2.5 to 2.5	Pass			
				10	3.8	-4.320	-0.0019	-2.5 to 2.5	Pass		

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	2312.5	25	0	30	3.8	-10.014	-0.0043	-2.5 to 2.5	Pass			
				40	3.8	-7.911	-0.0034	-2.5 to 2.5	Pass			
				50	3.8	-10.815	-0.0047	-2.5 to 2.5	Pass			
				20	3.46	4.492	0.0019	-2.5 to 2.5	Pass			
					3.8	1.001	0.0004	-2.5 to 2.5	Pass			
					4.35	-5.822	-0.0025	-2.5 to 2.5	Pass			
				-30	3.8	-1.359	-0.0006	-2.5 to 2.5	Pass			
				-20	3.8	-4.249	-0.0018	-2.5 to 2.5	Pass			
				-10	3.8	-10.514	-0.0045	-2.5 to 2.5	Pass			
				0	3.8	0.100	0.0000	-2.5 to 2.5	Pass			
				10	3.8	2.232	0.0010	-2.5 to 2.5	Pass			
				30	3.8	-9.971	-0.0043	-2.5 to 2.5	Pass			
				40	3.8	6.452	0.0028	-2.5 to 2.5	Pass			
50	3.8	-3.963	-0.0017	-2.5 to 2.5	Pass							
64QAM	2307.5	25	0	20	3.46	-1.345	-0.0006	-2.5 to 2.5	Pass			
					3.8	-16.179	-0.0070	-2.5 to 2.5	Pass			
					4.35	-8.125	-0.0035	-2.5 to 2.5	Pass			
				-30	3.8	-14.992	-0.0065	-2.5 to 2.5	Pass			
				-20	3.8	-11.544	-0.0050	-2.5 to 2.5	Pass			
				-10	3.8	-6.194	-0.0027	-2.5 to 2.5	Pass			
				0	3.8	-7.010	-0.0030	-2.5 to 2.5	Pass			
				10	3.8	-5.479	-0.0024	-2.5 to 2.5	Pass			
				30	3.8	-11.001	-0.0048	-2.5 to 2.5	Pass			
				40	3.8	-13.533	-0.0059	-2.5 to 2.5	Pass			
				50	3.8	-12.846	-0.0056	-2.5 to 2.5	Pass			
				2310	25	0	20	3.46	-6.766	-0.0029	-2.5 to 2.5	Pass
								3.8	-14.806	-0.0064	-2.5 to 2.5	Pass
4.35	-13.146	-0.0057	-2.5 to 2.5					Pass				
-30	3.8	-10.099	-0.0044				-2.5 to 2.5	Pass				
-20	3.8	-8.168	-0.0035				-2.5 to 2.5	Pass				
-10	3.8	-8.440	-0.0037				-2.5 to 2.5	Pass				
0	3.8	-12.503	-0.0054				-2.5 to 2.5	Pass				
10	3.8	-3.805	-0.0016				-2.5 to 2.5	Pass				
30	3.8	-5.121	-0.0022				-2.5 to 2.5	Pass				
40	3.8	-2.604	-0.0011				-2.5 to 2.5	Pass				
50	3.8	-9.856	-0.0043				-2.5 to 2.5	Pass				
2312.5	25	0	20				3.46	-1.144	-0.0005	-2.5 to 2.5	Pass	
							3.8	-7.567	-0.0033	-2.5 to 2.5	Pass	
				4.35	-1.087	-0.0005	-2.5 to 2.5	Pass				
			-30	3.8	5.894	0.0025	-2.5 to 2.5	Pass				
			-20	3.8	1.245	0.0005	-2.5 to 2.5	Pass				
			-10	3.8	3.719	0.0016	-2.5 to 2.5	Pass				
			0	3.8	6.266	0.0027	-2.5 to 2.5	Pass				
			10	3.8	0.687	0.0003	-2.5 to 2.5	Pass				
			30	3.8	4.950	0.0021	-2.5 to 2.5	Pass				
			40	3.8	2.818	0.0012	-2.5 to 2.5	Pass				
			50	3.8	-5.364	-0.0023	-2.5 to 2.5	Pass				

2.2 B30_10MHZ

2.2.1 Test Result



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Band: 30 / Bandwidth: 10MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	2310	50	0	20	3.46	-6.037	-0.0026	-2.5 to 2.5	Pass	
					3.8	-4.549	-0.0020	-2.5 to 2.5	Pass	
					4.35	-7.324	-0.0032	-2.5 to 2.5	Pass	
				-30	3.8	-2.561	-0.0011	-2.5 to 2.5	Pass	
					-20	3.8	-8.311	-0.0036	-2.5 to 2.5	Pass
						3.8	-7.439	-0.0032	-2.5 to 2.5	Pass
				0	3.8	-8.454	-0.0037	-2.5 to 2.5	Pass	
					10	3.8	-9.313	-0.0040	-2.5 to 2.5	Pass
				30	3.8	-12.717	-0.0055	-2.5 to 2.5	Pass	
	40	3.8	-6.738		-0.0029	-2.5 to 2.5	Pass			
	50	3.8	-7.482	-0.0032	-2.5 to 2.5	Pass				
	2310	50	0	20	3.46	-1.116	-0.0005	-2.5 to 2.5	Pass	
					3.8	-6.323	-0.0027	-2.5 to 2.5	Pass	
					4.35	-15.278	-0.0066	-2.5 to 2.5	Pass	
				-30	3.8	-7.138	-0.0031	-2.5 to 2.5	Pass	
					-20	3.8	-5.350	-0.0023	-2.5 to 2.5	Pass
						3.8	-8.512	-0.0037	-2.5 to 2.5	Pass
				0	3.8	-5.178	-0.0022	-2.5 to 2.5	Pass	
					10	3.8	-9.012	-0.0039	-2.5 to 2.5	Pass
				30	3.8	-13.390	-0.0058	-2.5 to 2.5	Pass	
	40	3.8	-3.705	-0.0016	-2.5 to 2.5	Pass				
	50	3.8	-12.188	-0.0053	-2.5 to 2.5	Pass				
	2310	50	0	20	3.46	-3.390	-0.0015	-2.5 to 2.5	Pass	
					3.8	-8.683	-0.0038	-2.5 to 2.5	Pass	
4.35					-13.447	-0.0058	-2.5 to 2.5	Pass		
-30				3.8	-13.747	-0.0060	-2.5 to 2.5	Pass		
				-20	3.8	-5.965	-0.0026	-2.5 to 2.5	Pass	
					3.8	-12.131	-0.0053	-2.5 to 2.5	Pass	
0				3.8	-15.121	-0.0065	-2.5 to 2.5	Pass		
				10	3.8	-9.098	-0.0039	-2.5 to 2.5	Pass	
30				3.8	-8.025	-0.0035	-2.5 to 2.5	Pass		
40	3.8	-6.824	-0.0030	-2.5 to 2.5	Pass					
50	3.8	-11.473	-0.0050	-2.5 to 2.5	Pass					
16QAM	2310	50	0	20	3.46	-6.595	-0.0029	-2.5 to 2.5	Pass	
					3.8	-4.148	-0.0018	-2.5 to 2.5	Pass	
					4.35	-3.877	-0.0017	-2.5 to 2.5	Pass	
				-30	3.8	-3.076	-0.0013	-2.5 to 2.5	Pass	
					-20	3.8	-15.264	-0.0066	-2.5 to 2.5	Pass
						3.8	-3.762	-0.0016	-2.5 to 2.5	Pass
				0	3.8	-4.907	-0.0021	-2.5 to 2.5	Pass	
					10	3.8	-2.818	-0.0012	-2.5 to 2.5	Pass
				30	3.8	-7.052	-0.0031	-2.5 to 2.5	Pass	
	40	3.8	-12.803	-0.0055	-2.5 to 2.5	Pass				
	50	3.8	-11.516	-0.0050	-2.5 to 2.5	Pass				
	2310	50	0	20	3.46	-9.842	-0.0043	-2.5 to 2.5	Pass	
					3.8	-14.877	-0.0064	-2.5 to 2.5	Pass	
					4.35	-11.959	-0.0052	-2.5 to 2.5	Pass	
				-30	3.8	-11.888	-0.0051	-2.5 to 2.5	Pass	
					-20	3.8	-7.424	-0.0032	-2.5 to 2.5	Pass
						3.8	-13.962	-0.0060	-2.5 to 2.5	Pass
				0	3.8	-7.997	-0.0035	-2.5 to 2.5	Pass	

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				10	3.8	-10.757	-0.0047	-2.5 to 2.5	Pass				
				30	3.8	-12.546	-0.0054	-2.5 to 2.5	Pass				
				40	3.8	-9.871	-0.0043	-2.5 to 2.5	Pass				
				50	3.8	-13.676	-0.0059	-2.5 to 2.5	Pass				
	2310	50	0	20	3.46	-14.377	-0.0062	-2.5 to 2.5	Pass				
					3.8	-6.723	-0.0029	-2.5 to 2.5	Pass				
					4.35	-12.159	-0.0053	-2.5 to 2.5	Pass				
				-30	3.8	-16.007	-0.0069	-2.5 to 2.5	Pass				
				-20	3.8	-10.700	-0.0046	-2.5 to 2.5	Pass				
				-10	3.8	-12.374	-0.0054	-2.5 to 2.5	Pass				
				0	3.8	-16.723	-0.0072	-2.5 to 2.5	Pass				
				10	3.8	-10.943	-0.0047	-2.5 to 2.5	Pass				
				30	3.8	-11.158	-0.0048	-2.5 to 2.5	Pass				
				40	3.8	-11.144	-0.0048	-2.5 to 2.5	Pass				
				50	3.8	-10.414	-0.0045	-2.5 to 2.5	Pass				
				64QAM	2310	50	0	20	3.46	-0.801	-0.0003	-2.5 to 2.5	Pass
									3.8	-7.510	-0.0033	-2.5 to 2.5	Pass
									4.35	-9.255	-0.0040	-2.5 to 2.5	Pass
								-30	3.8	-12.259	-0.0053	-2.5 to 2.5	Pass
-20	3.8	-2.117	-0.0009					-2.5 to 2.5	Pass				
-10	3.8	-4.206	-0.0018					-2.5 to 2.5	Pass				
0	3.8	-13.533	-0.0059					-2.5 to 2.5	Pass				
10	3.8	-11.959	-0.0052					-2.5 to 2.5	Pass				
30	3.8	-4.578	-0.0020					-2.5 to 2.5	Pass				
40	3.8	-5.035	-0.0022					-2.5 to 2.5	Pass				
50	3.8	-7.453	-0.0032		-2.5 to 2.5	Pass							
2310	50	0	20		3.46	-12.860	-0.0056	-2.5 to 2.5	Pass				
					3.8	-9.513	-0.0041	-2.5 to 2.5	Pass				
					4.35	-6.280	-0.0027	-2.5 to 2.5	Pass				
			-30		3.8	-14.248	-0.0062	-2.5 to 2.5	Pass				
			-20		3.8	-10.242	-0.0044	-2.5 to 2.5	Pass				
			-10		3.8	-8.597	-0.0037	-2.5 to 2.5	Pass				
			0		3.8	-5.279	-0.0023	-2.5 to 2.5	Pass				
			10		3.8	-7.710	-0.0033	-2.5 to 2.5	Pass				
			30	3.8	-14.706	-0.0064	-2.5 to 2.5	Pass					
40	3.8	-7.052	-0.0031	-2.5 to 2.5	Pass								
50	3.8	-15.764	-0.0068	-2.5 to 2.5	Pass								
2310	50	0	20	3.46	-9.613	-0.0042	-2.5 to 2.5	Pass					
				3.8	-10.128	-0.0044	-2.5 to 2.5	Pass					
				4.35	-0.358	-0.0002	-2.5 to 2.5	Pass					
			-30	3.8	-10.042	-0.0043	-2.5 to 2.5	Pass					
			-20	3.8	-17.152	-0.0074	-2.5 to 2.5	Pass					
			-10	3.8	-1.345	-0.0006	-2.5 to 2.5	Pass					
			0	3.8	-9.041	-0.0039	-2.5 to 2.5	Pass					
			10	3.8	-4.020	-0.0017	-2.5 to 2.5	Pass					
			30	3.8	-14.863	-0.0064	-2.5 to 2.5	Pass					
40	3.8	-3.719	-0.0016	-2.5 to 2.5	Pass								
50	3.8	-10.328	-0.0045	-2.5 to 2.5	Pass								

3. Modulation Characteristics

3.1 B30_5MHz



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3.1.1 Test Result

Band: 30 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	25	0	Refer To Test Graph		Pass
16QAM	2310	25	0	Refer To Test Graph		Pass
64QAM	2310	25	0	Refer To Test Graph		Pass



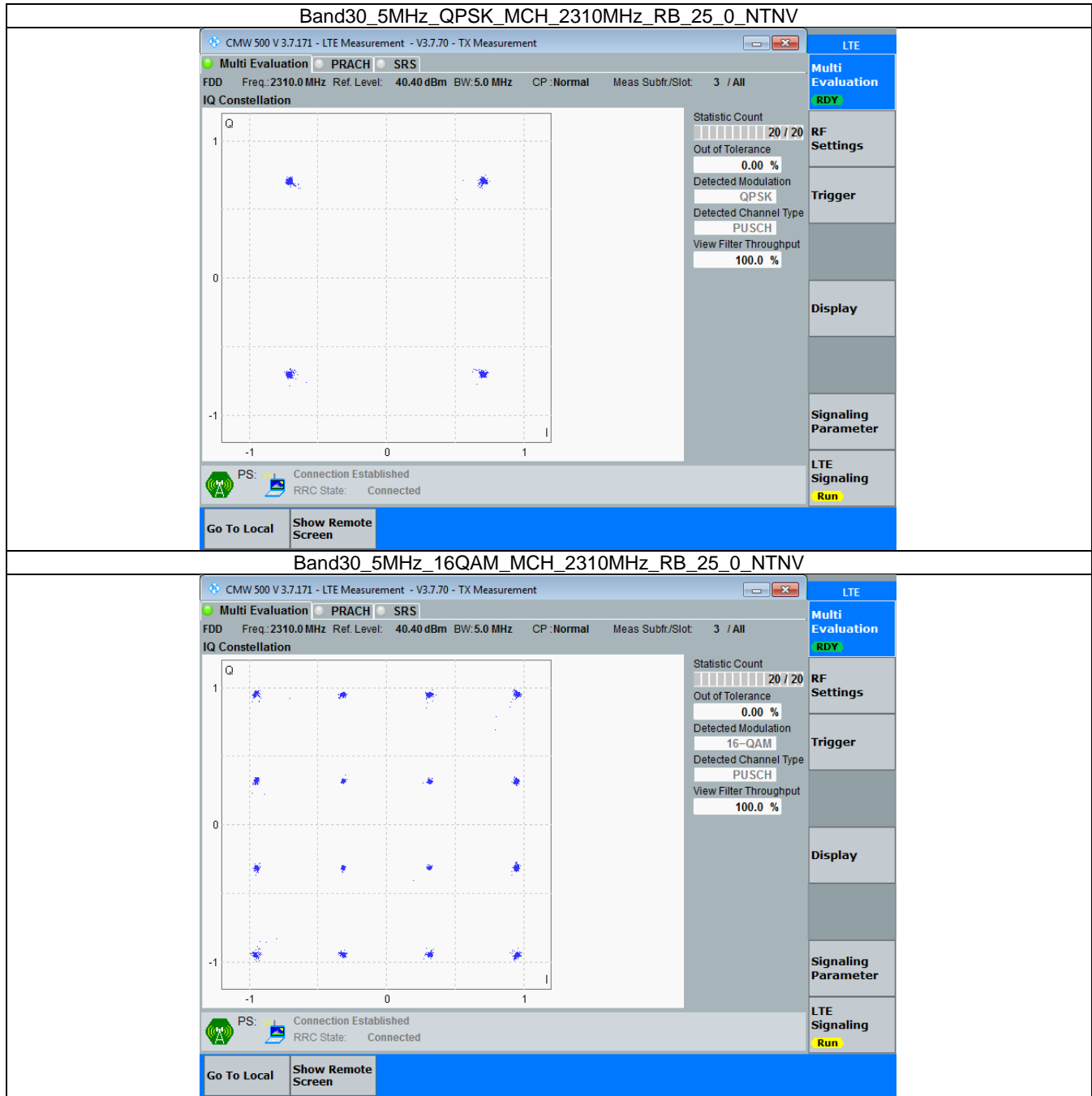
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3.1.2 Test Graph



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Band30_5MHz_64QAM_MCH_2310MHz_RB_25_0_NTNV

CMW 500 V 3.7.171 - LTE Measurement - V3.7.70 - TX Measurement		LTE
Multi Evaluation <input type="checkbox"/> PRACH <input type="checkbox"/> SRS		Multi Evaluation RDY
FDD Freq.: 2310.0 MHz Ref. Level: 40.40 dBm BW: 5.0 MHz CP: Normal Meas Subfr/Slot 3 / All		RF Settings
IQ Constellation		Trigger
	Statistic Count 20 / 20 Out of Tolerance 0.00 % Detected Modulation 64-QAM Detected Channel Type PUSCH View Filter Throughput 100.0 %	Display
PS: Connection Established RRC State: Connected		Signaling Parameter LTE Signaling Run
Go To Local	Show Remote Screen	



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3.2 B30_10MHz

3.2.1 Test Result

Band: 30 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	50	0	Refer To Test Graph		Pass
16QAM	2310	50	0	Refer To Test Graph		Pass
64QAM	2310	50	0	Refer To Test Graph		Pass



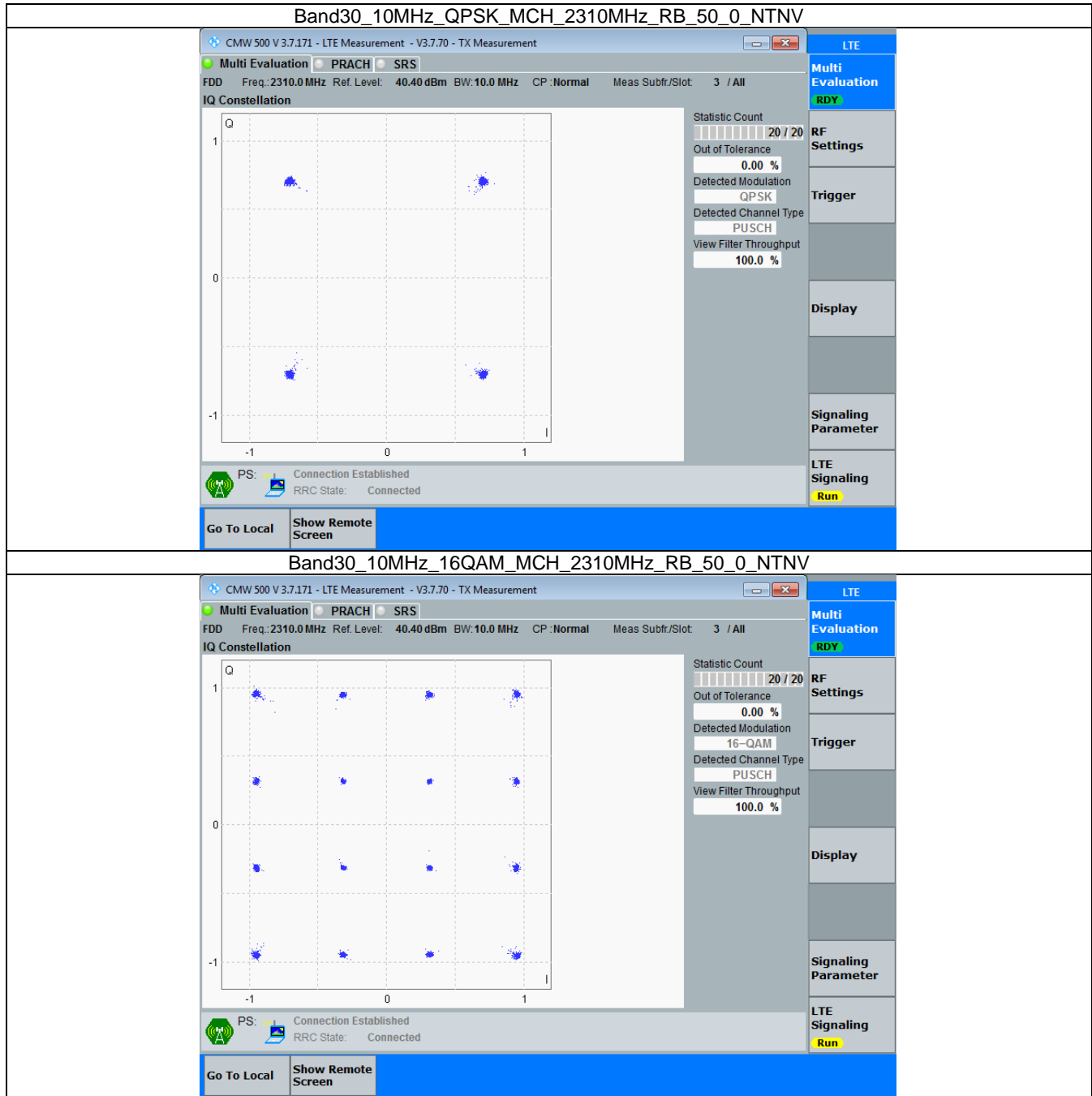
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3.2.2 Test Graph

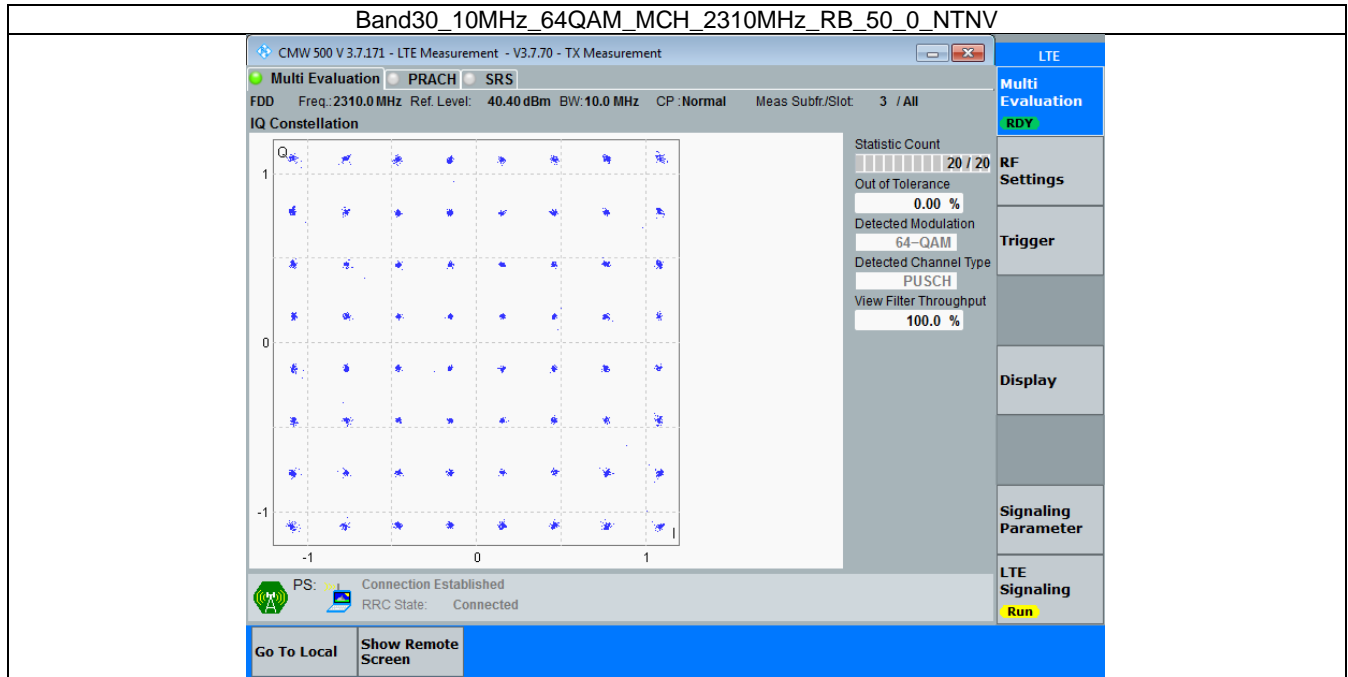


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4. 99% & 26dB Bandwidth

4.1 Band30_OBW

4.1.1 Test Result

Band: 30 / NTV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	2307.5	25	0	4.538	Pass
		2310	25	0	4.541	Pass
		2312.5	25	0	4.531	Pass
	16QAM	2307.5	25	0	4.521	Pass
		2310	25	0	4.540	Pass
		2312.5	25	0	4.545	Pass
	64QAM	2307.5	25	0	4.525	Pass
		2310	25	0	4.539	Pass
		2312.5	25	0	4.524	Pass
10	QPSK	2310	50	0	9.056	Pass
		2310	50	0	9.030	Pass
		2310	50	0	9.059	Pass
	16QAM	2310	50	0	9.014	Pass
		2310	50	0	9.032	Pass
		2310	50	0	9.049	Pass
	64QAM	2310	50	0	9.060	Pass
		2310	50	0	9.046	Pass
		2310	50	0	9.056	Pass

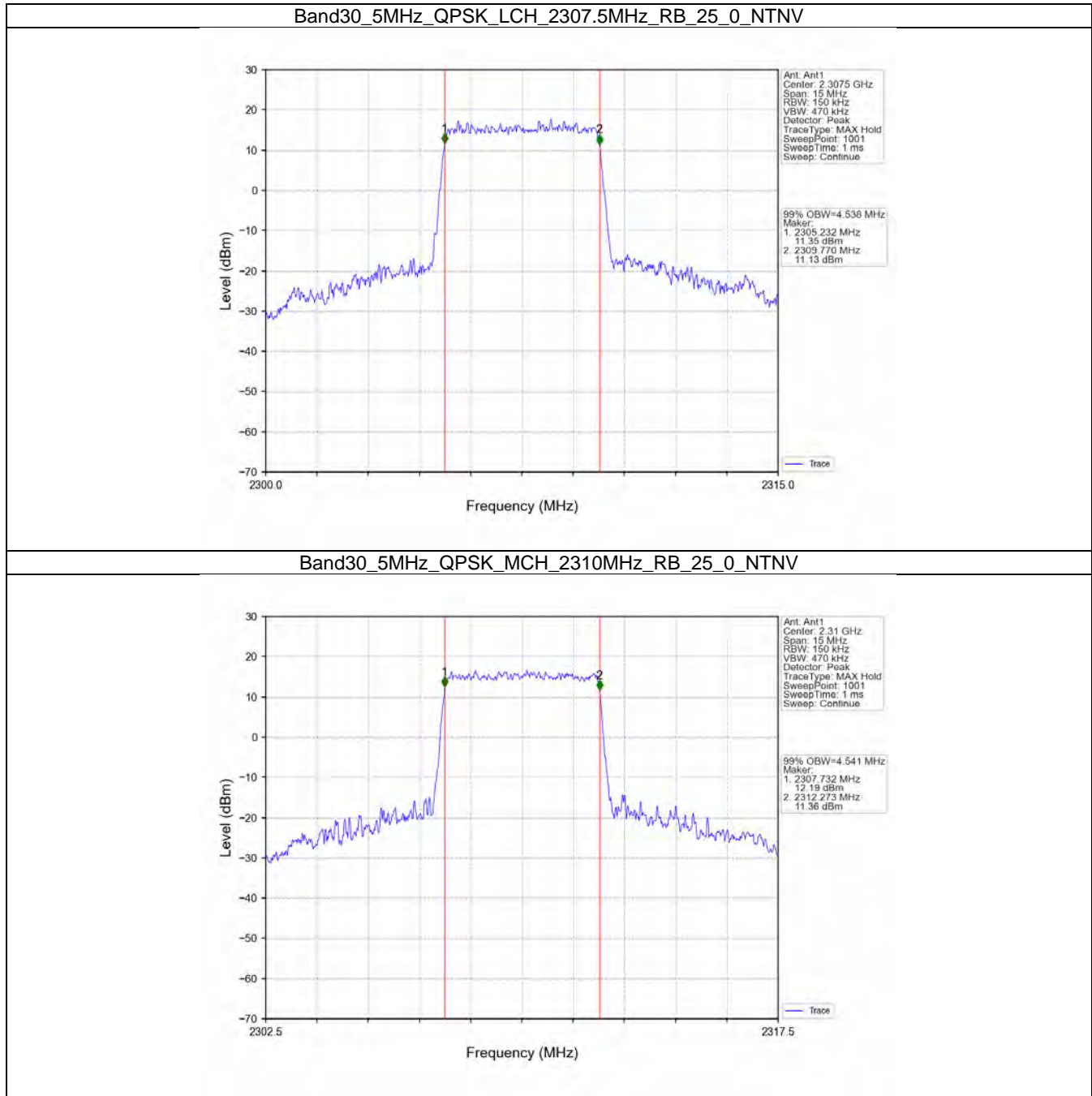


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4.1.2 Test Graph



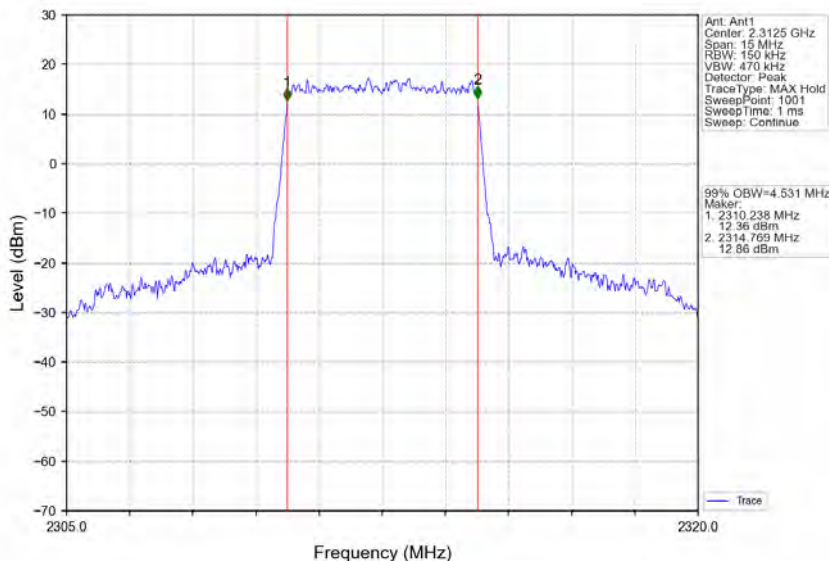
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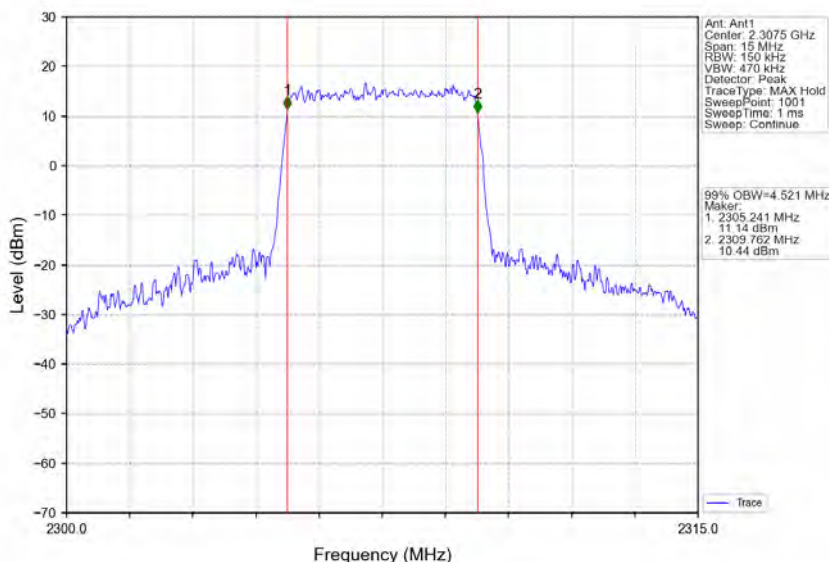
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Band30_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



Band30_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV

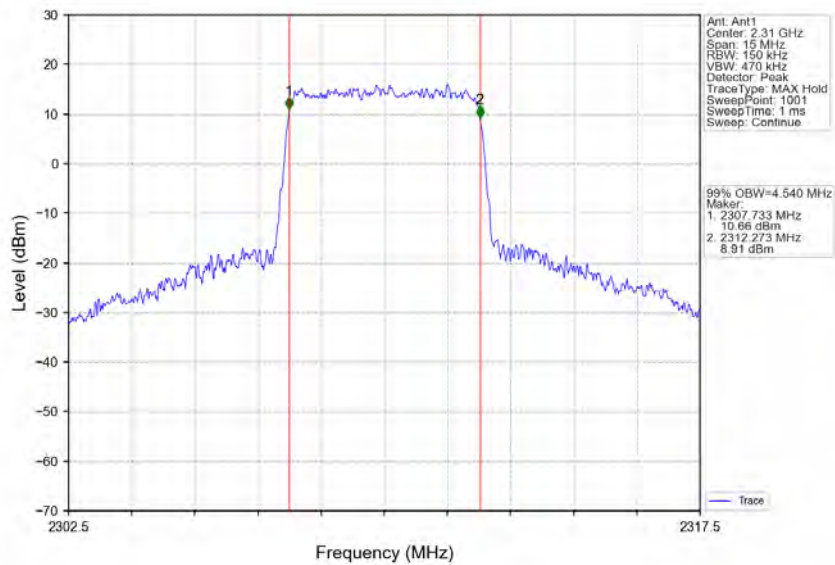


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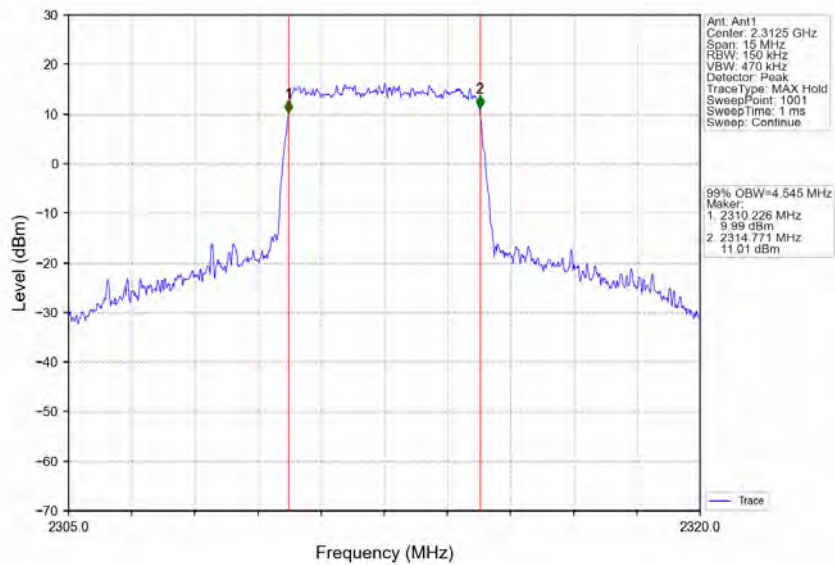
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Band30_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



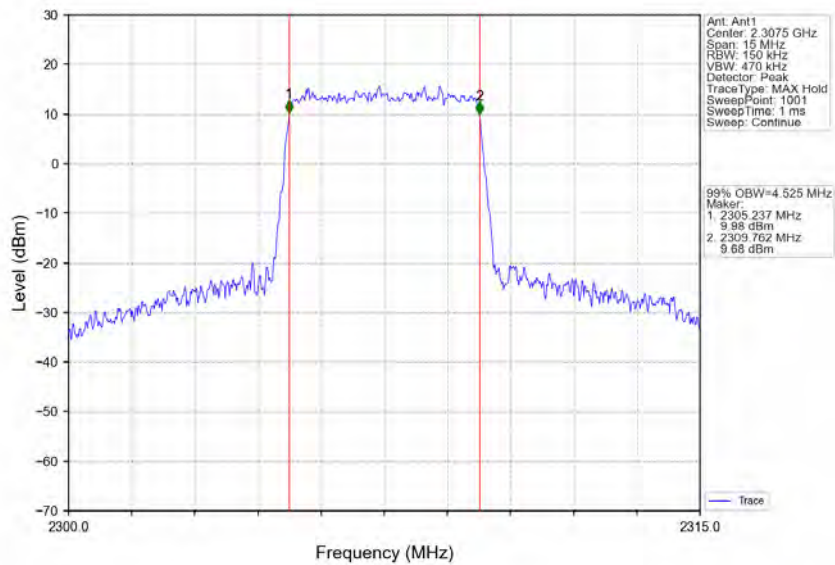
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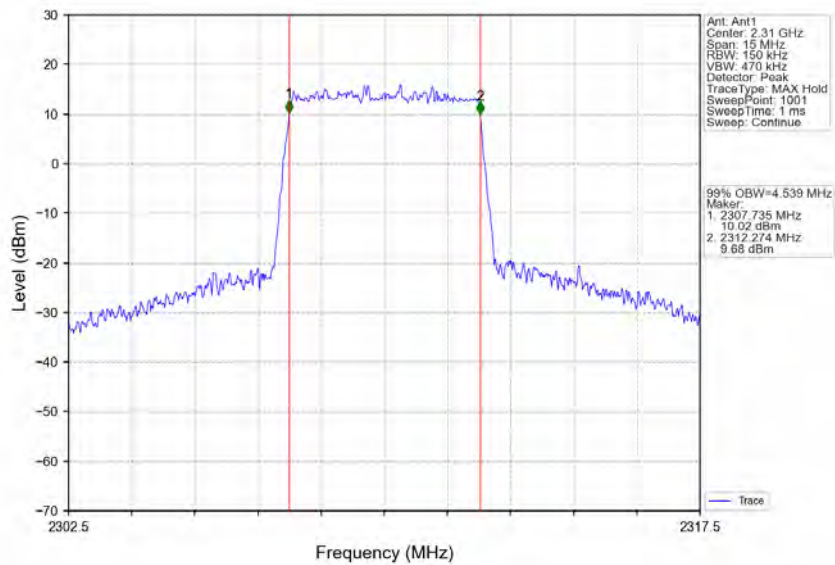
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Band30_5MHz_64QAM_MCH_2310MHz_RB_25_0_NTNV



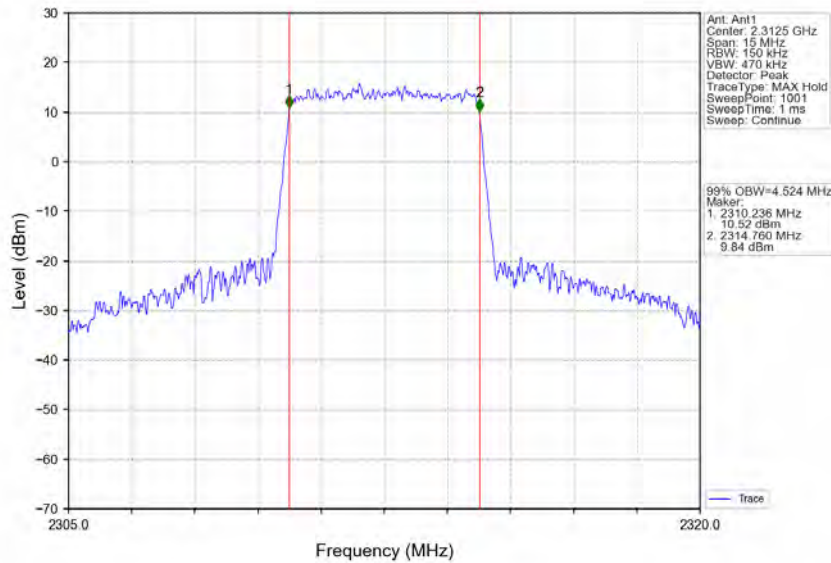
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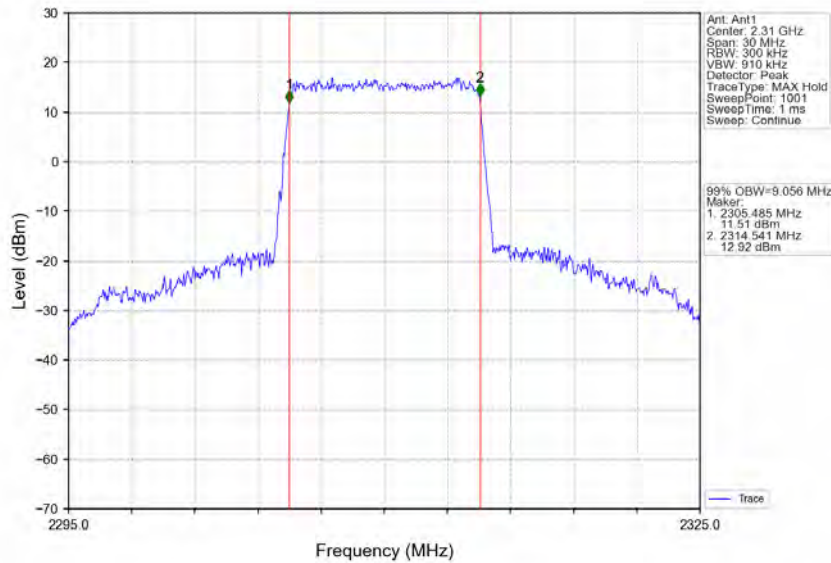
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Band30_10MHz_QPSK_LCH_2310MHz_RB_50_0_NTNV



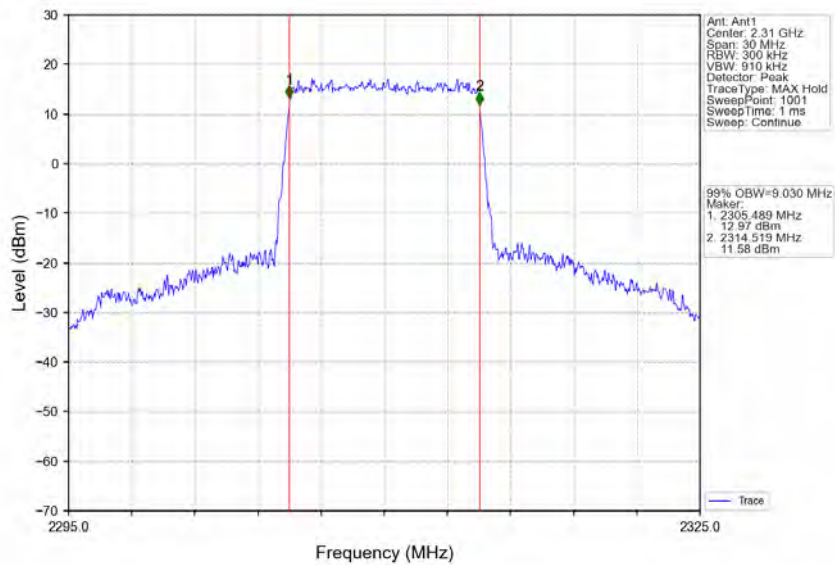
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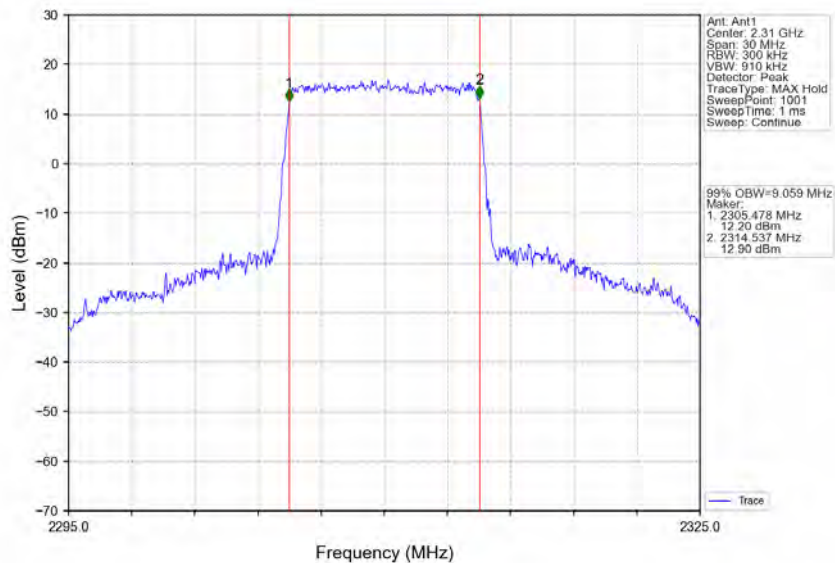
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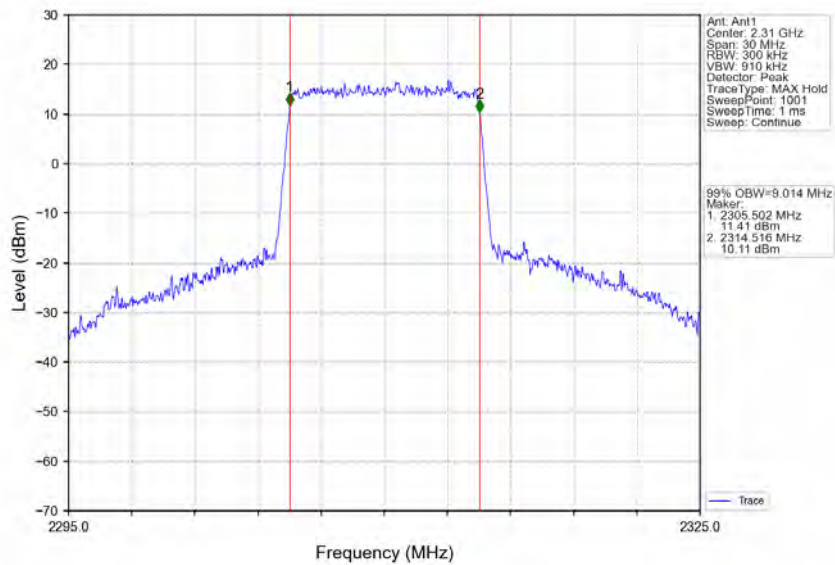
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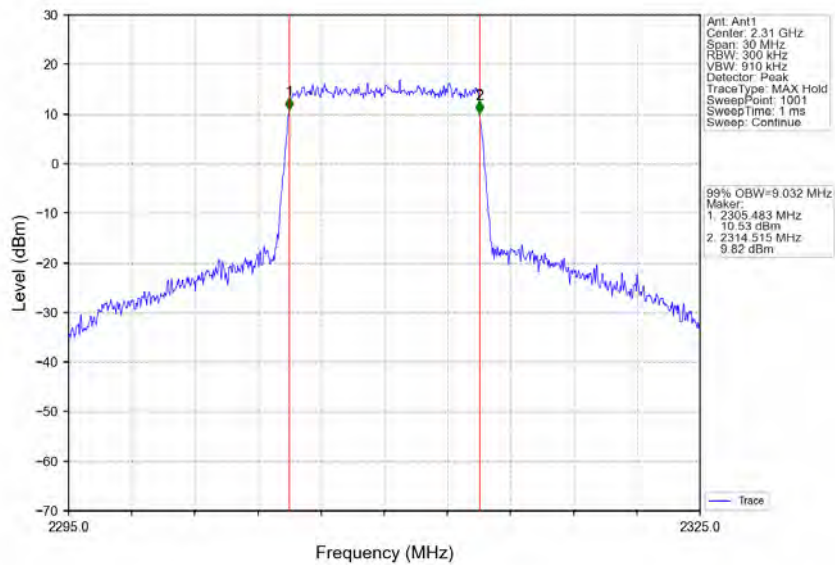
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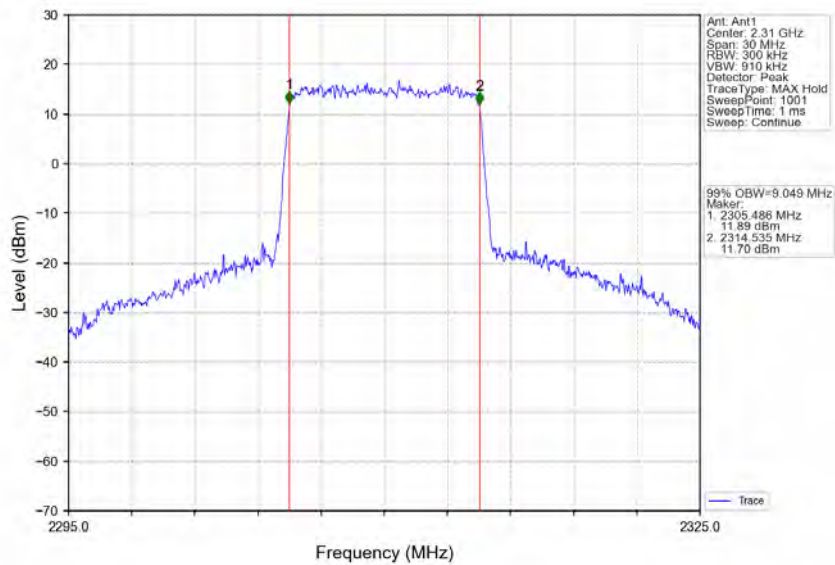
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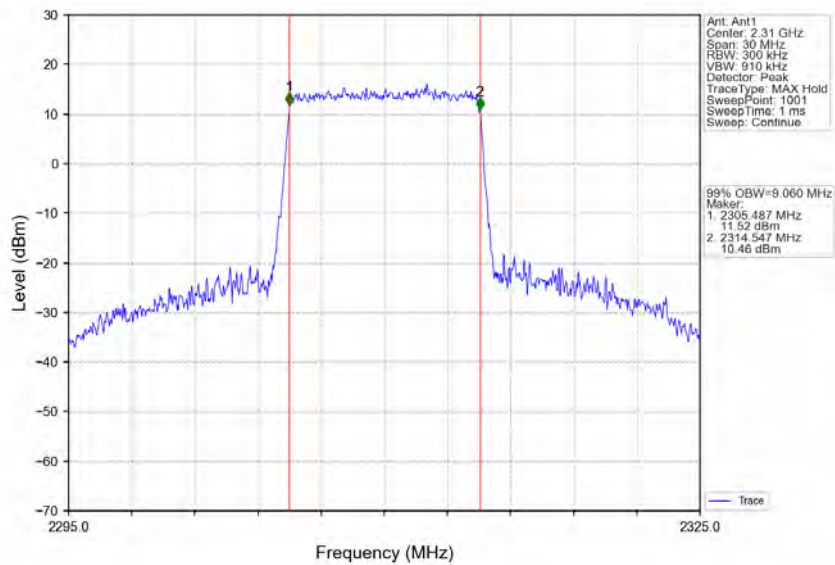
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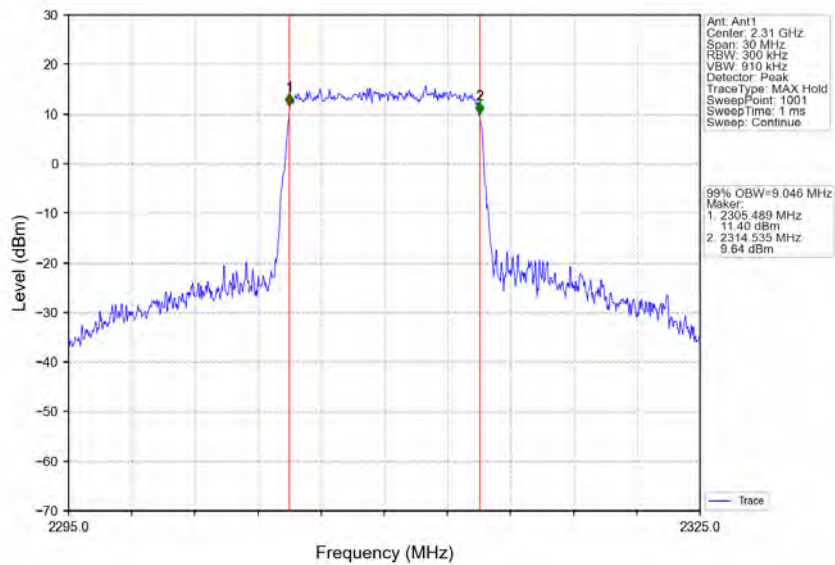
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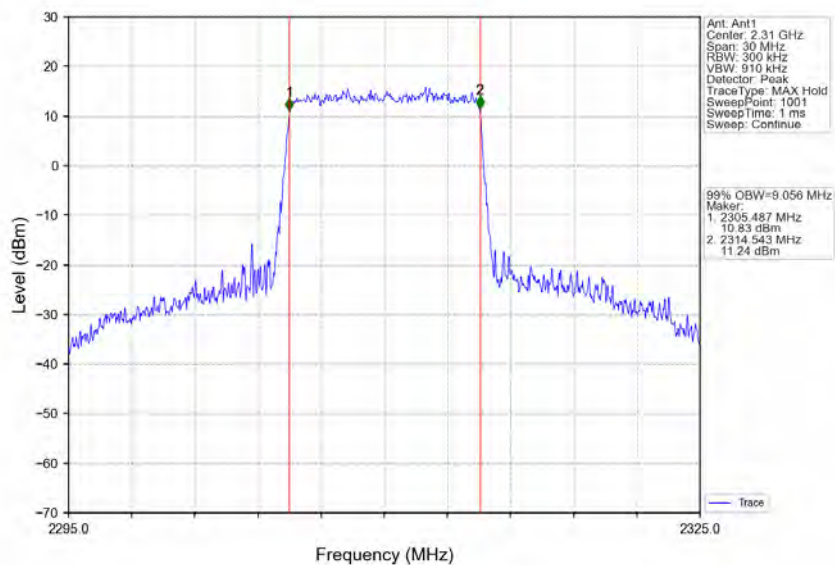
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4.2 Band30_XDB

4.2.1 Test Result

Band: 30 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	2307.5	25	0	4.985	Pass
		2310	25	0	4.996	Pass
		2312.5	25	0	4.994	Pass
	16QAM	2307.5	25	0	4.977	Pass
		2310	25	0	5.009	Pass
		2312.5	25	0	4.999	Pass
	64QAM	2307.5	25	0	5.001	Pass
		2310	25	0	5.026	Pass
		2312.5	25	0	4.999	Pass
10	QPSK	2310	50	0	10.035	Pass
		2310	50	0	10.020	Pass
		2310	50	0	9.938	Pass
	16QAM	2310	50	0	9.887	Pass
		2310	50	0	9.889	Pass
		2310	50	0	9.872	Pass
	64QAM	2310	50	0	9.833	Pass
		2310	50	0	9.906	Pass
		2310	50	0	9.903	Pass

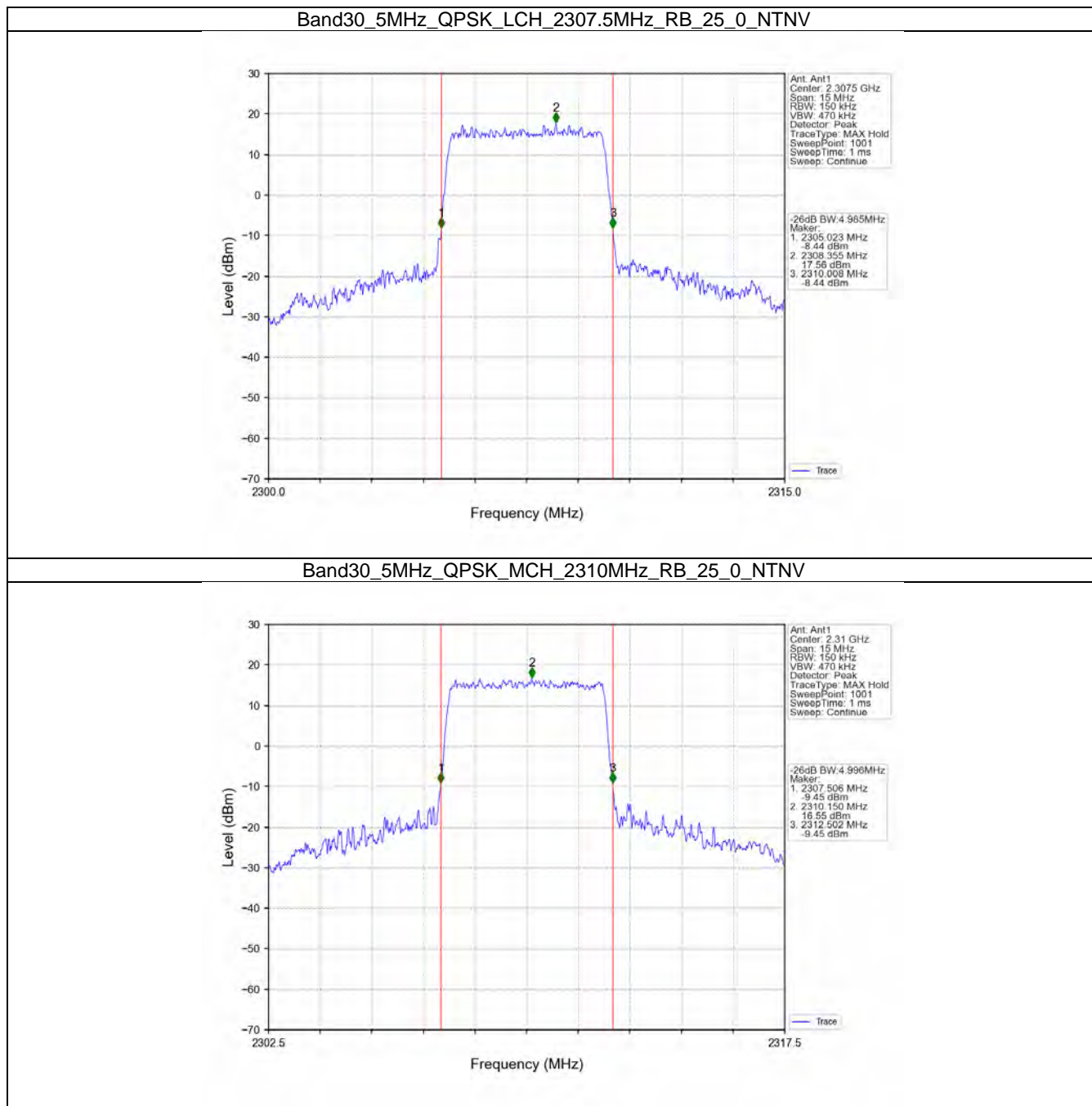


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4.2.2 Test Graph



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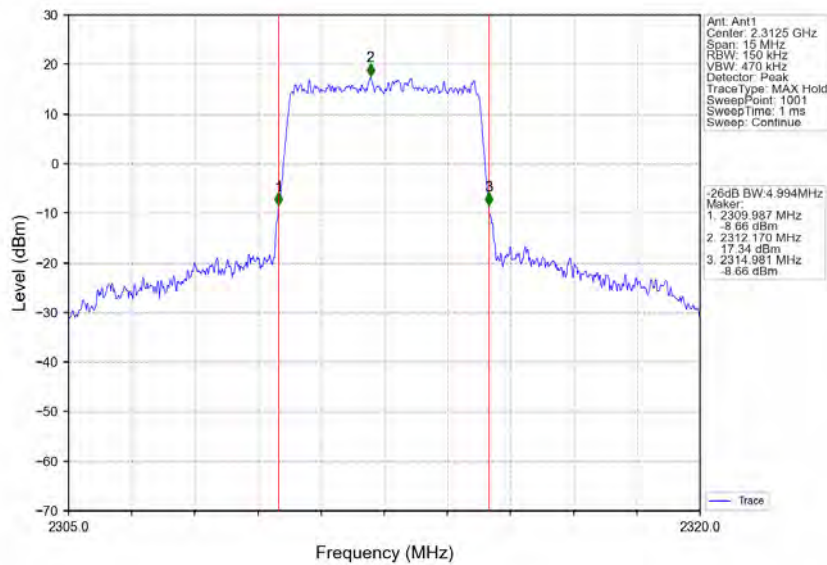
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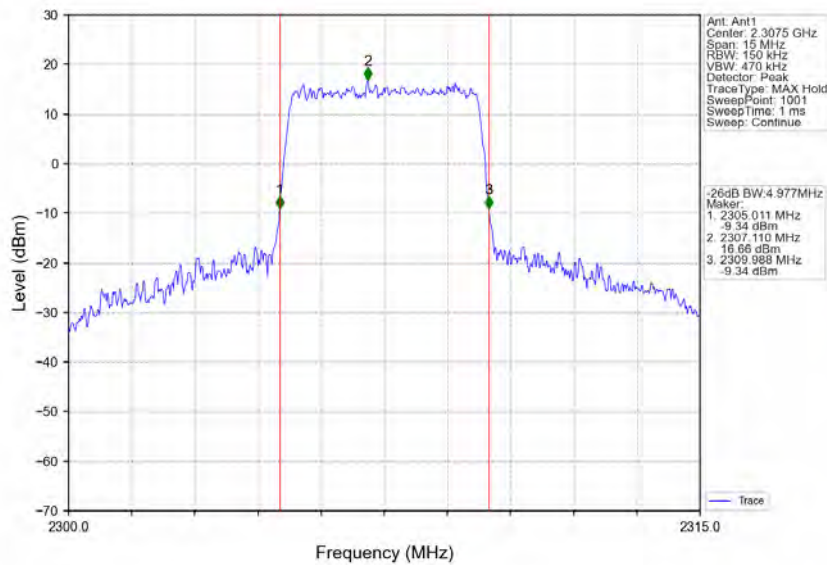
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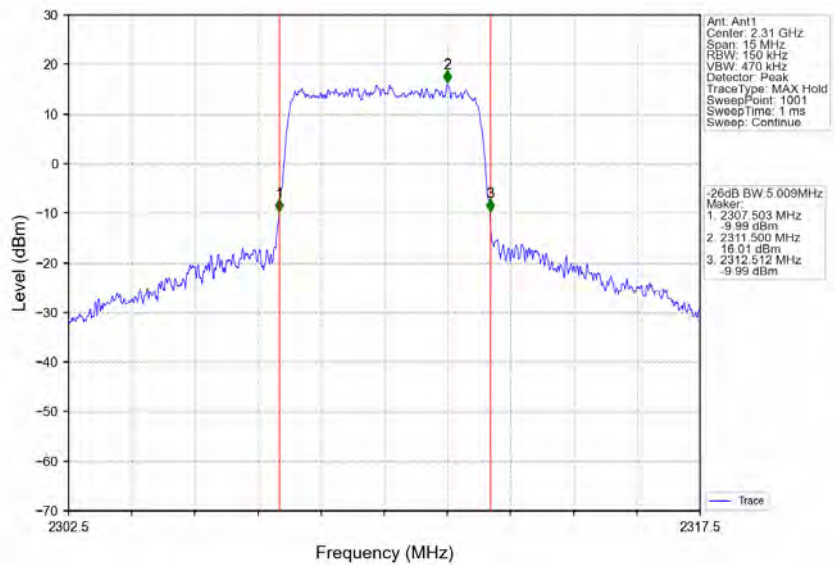
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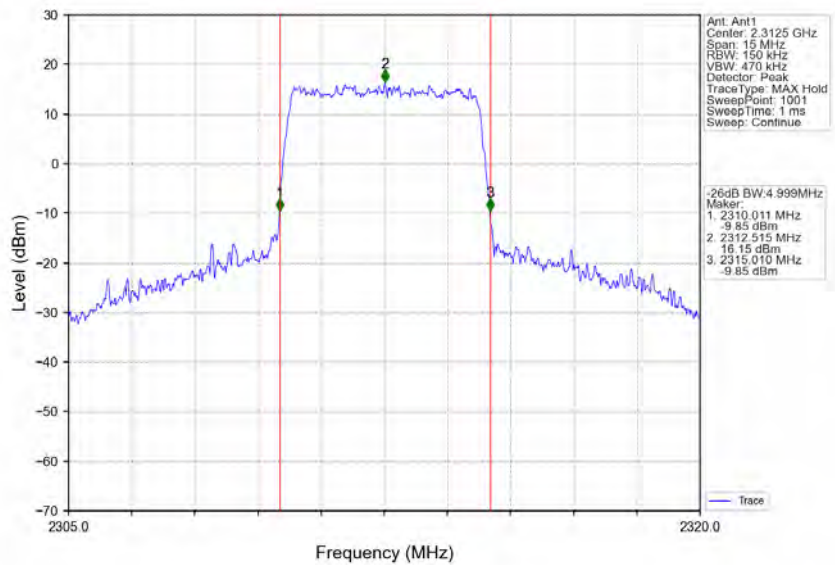
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Band30_5MHz_16QAM_HCH_2312.5MHz_RB_25_0_NTNV



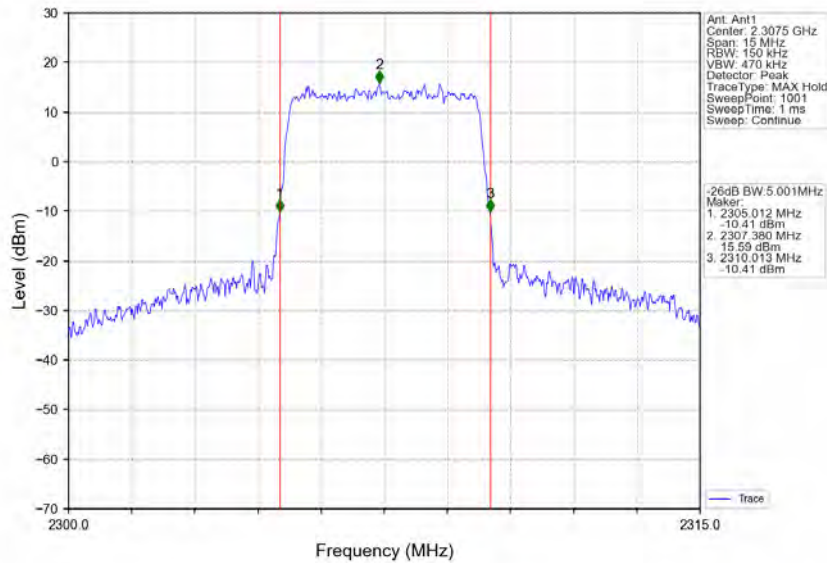
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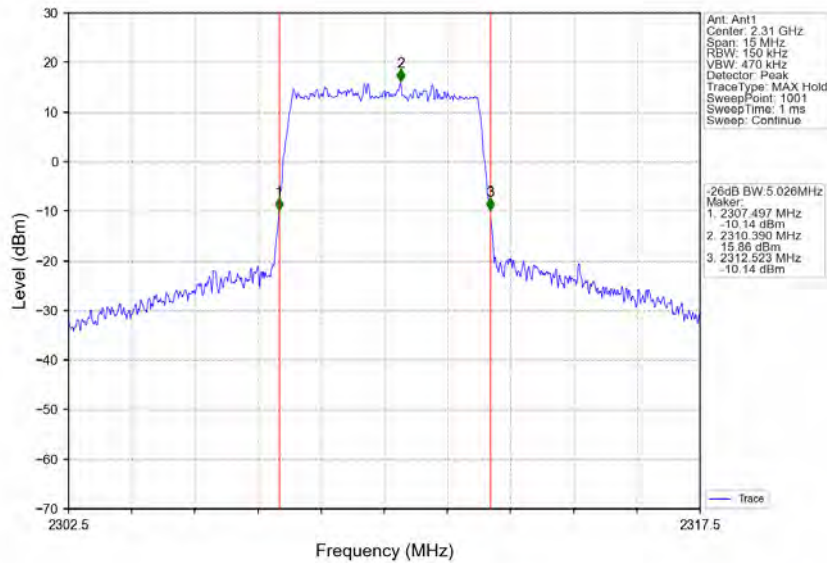
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Band30_5MHz_64QAM_MCH_2310MHz_RB_25_0_NTNV



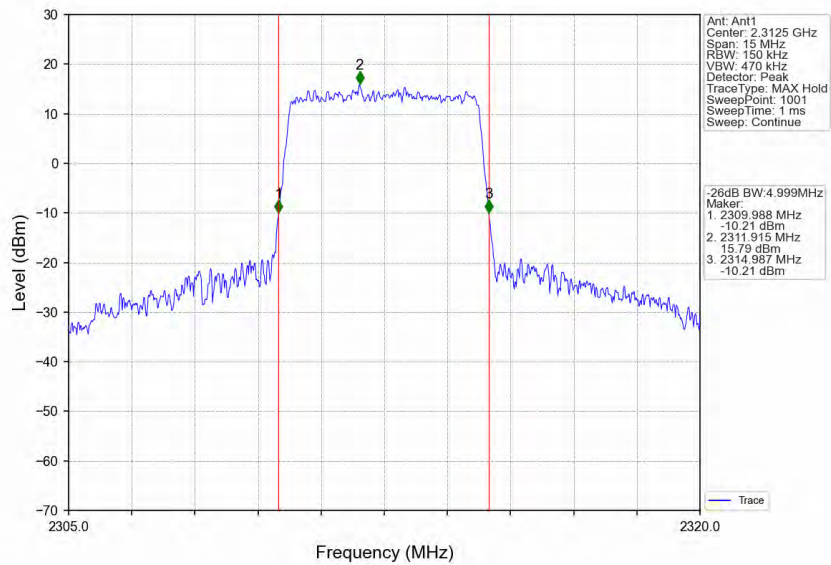
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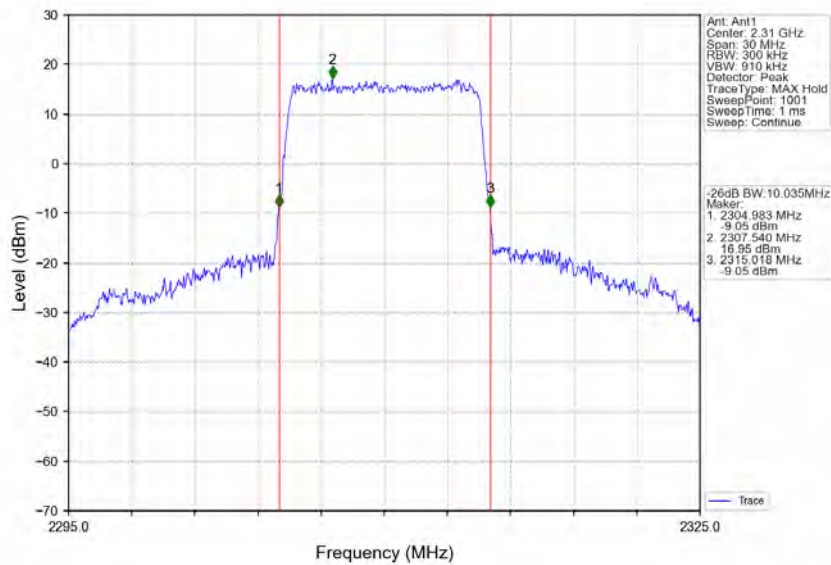
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Band30_10MHz_QPSK_LCH_2310MHz_RB_50_0_NTNV



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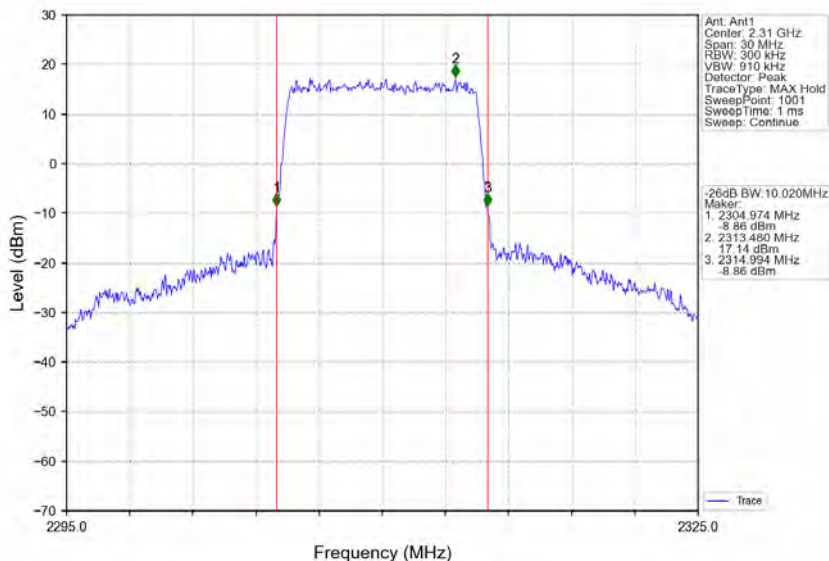
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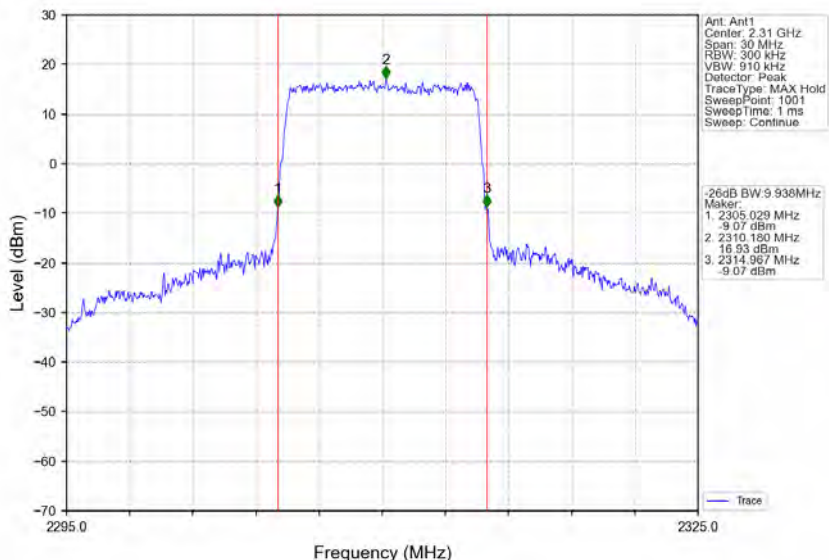
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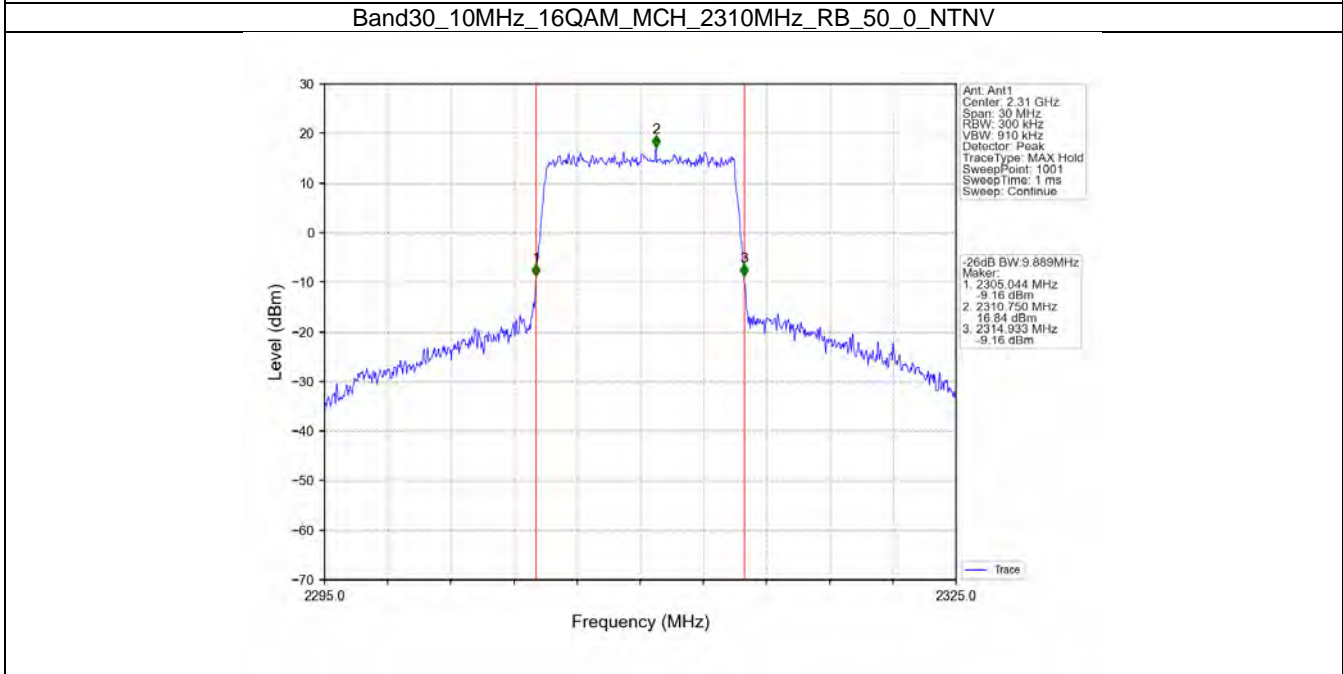
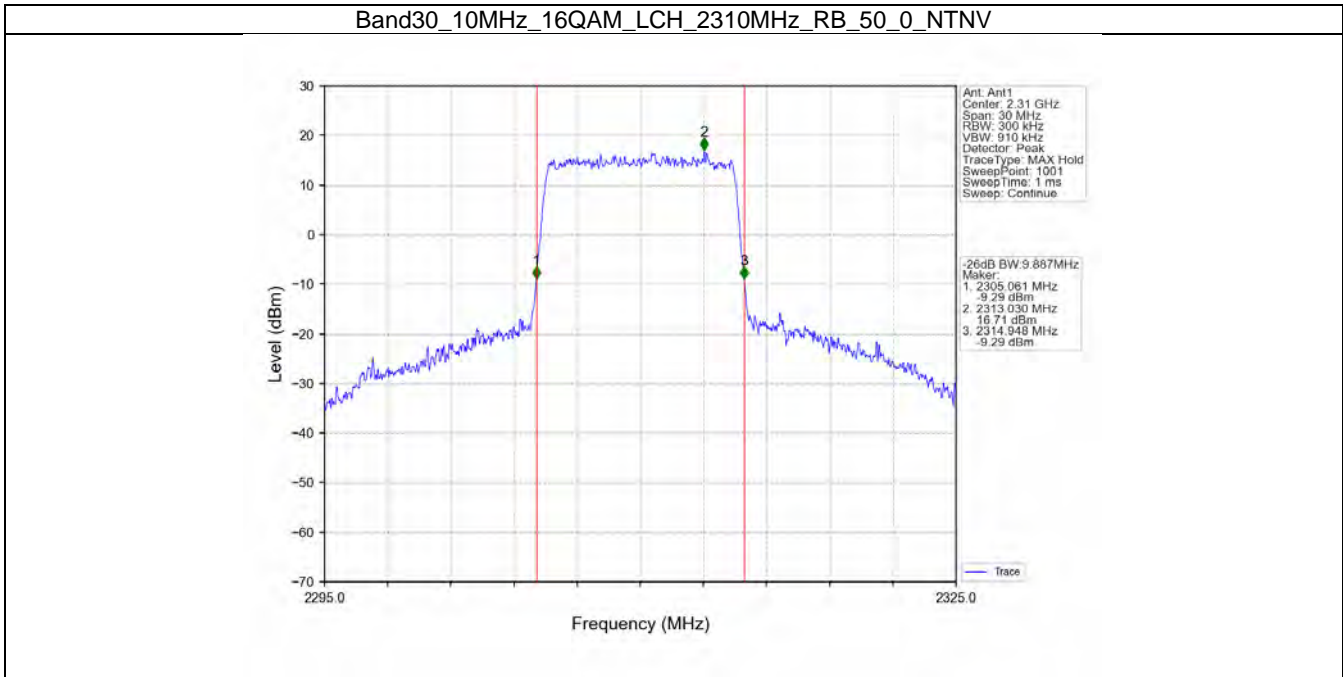


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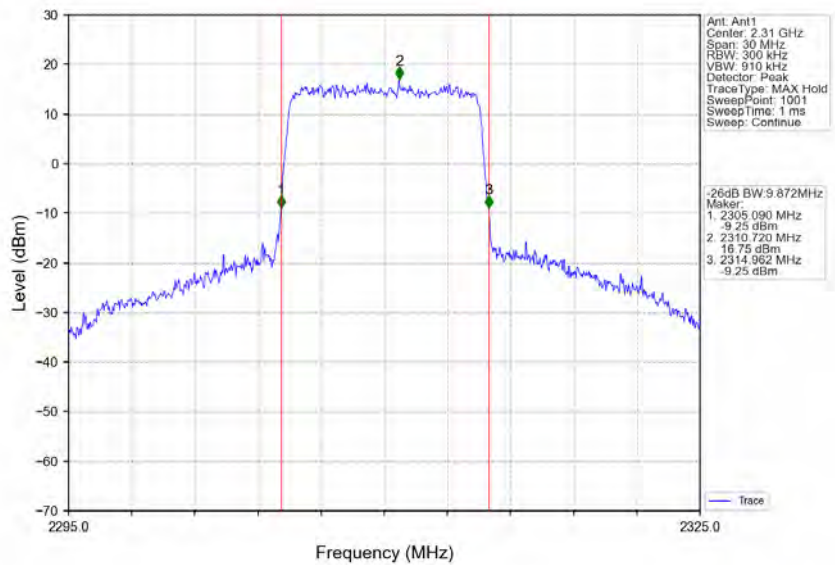
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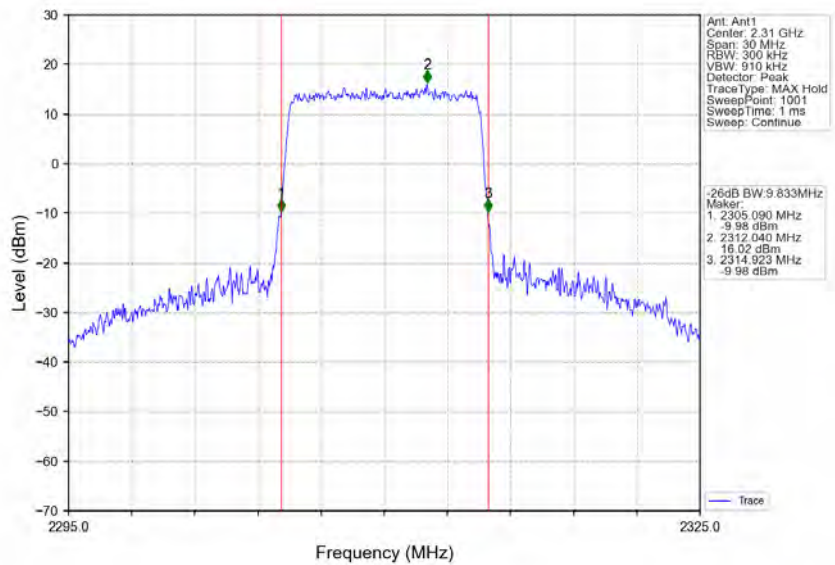
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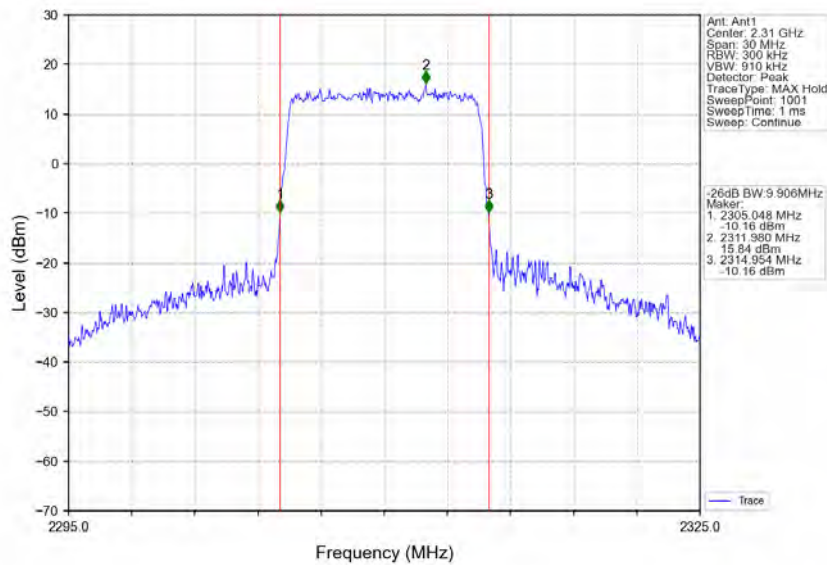
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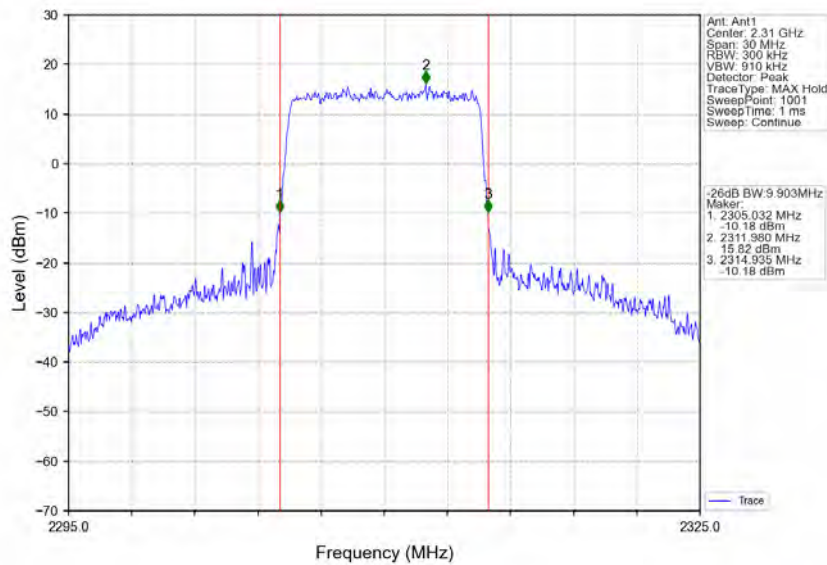
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5. Peak-Average Ratio

5.1 B30_5MHz

5.1.1 Test Result

Band: 30 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2307.5	25	0	5.19	<=13	Pass
	2310	25	0	5.17	<=13	Pass
	2312.5	25	0	5.13	<=13	Pass
16QAM	2307.5	25	0	5.92	<=13	Pass
	2310	25	0	5.90	<=13	Pass
	2312.5	25	0	5.87	<=13	Pass
64QAM	2307.5	25	0	6.36	<=13	Pass
	2310	25	0	6.35	<=13	Pass
	2312.5	25	0	6.34	<=13	Pass



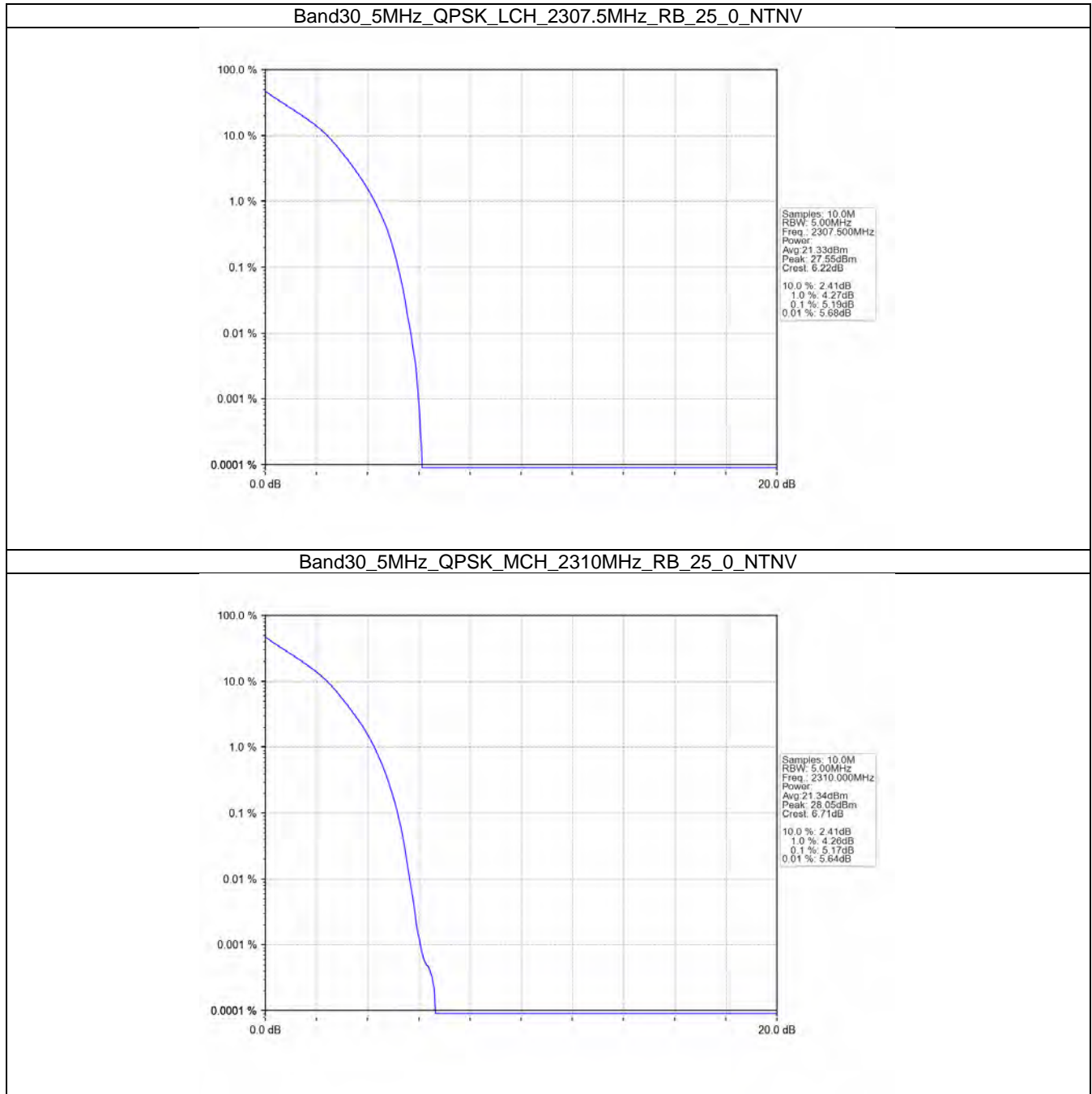
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5.1.2 Test Graph



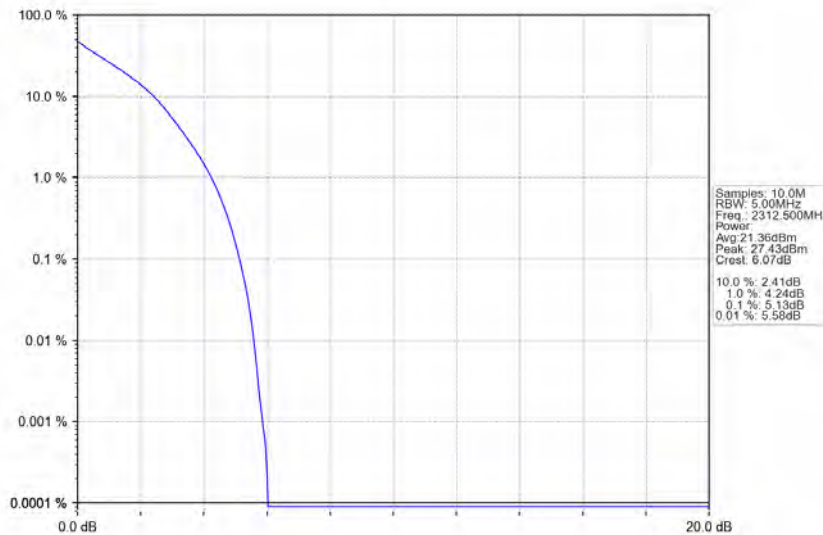
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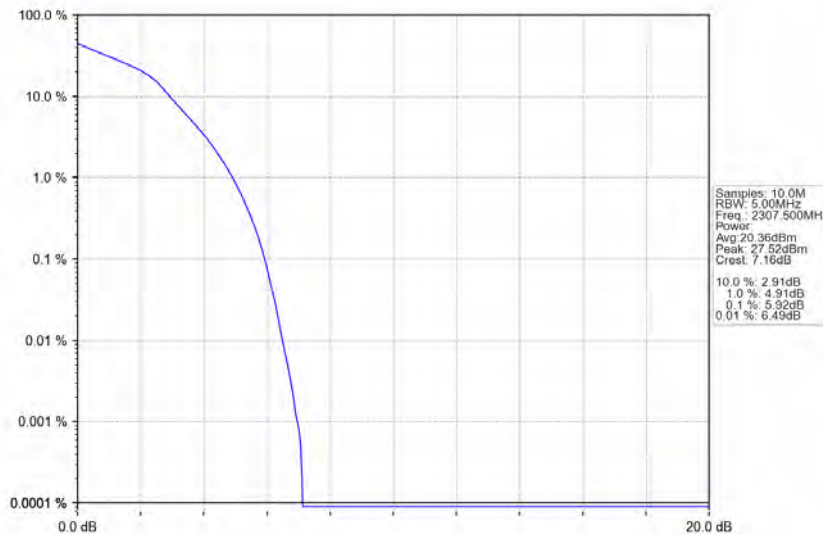
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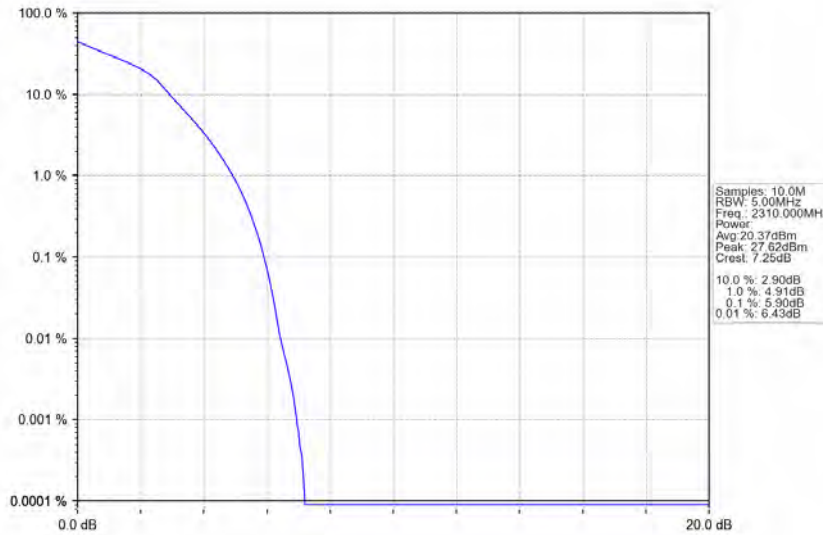
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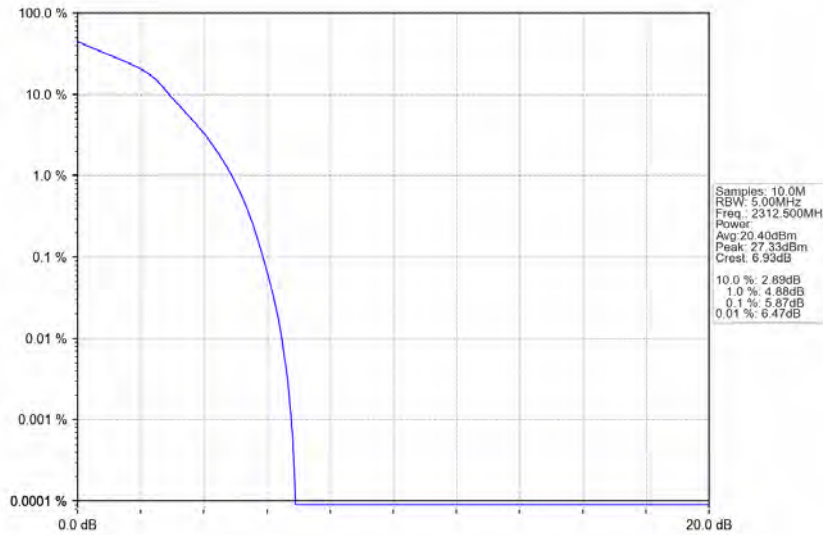
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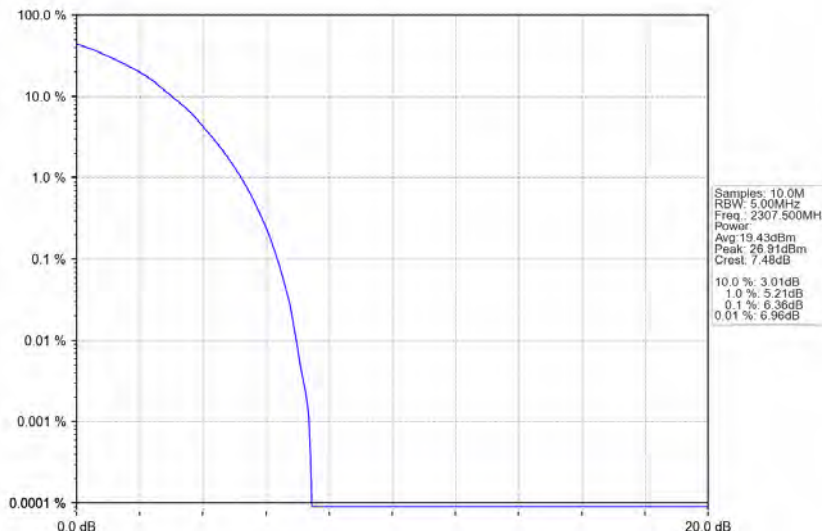
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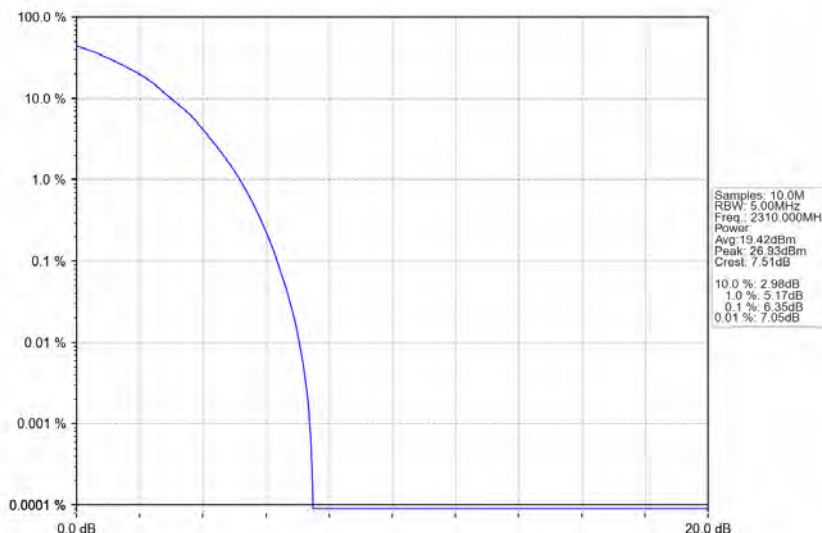
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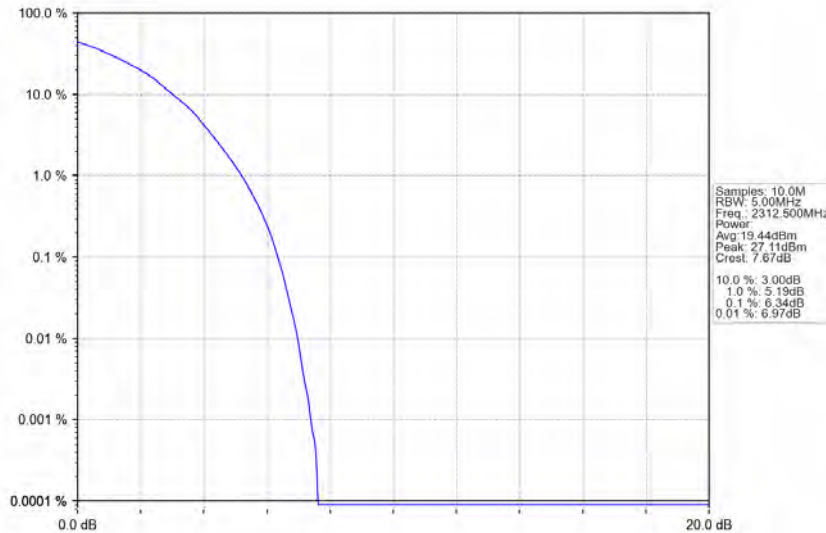
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Band30_5MHz_64QAM_HCH_2312.5MHz_RB_25_0_NTNV



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5.2 B30_10MHz

5.2.1 Test Result

Band: 30 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	50	0	5.41	<=13	Pass
	2310	50	0	5.39	<=13	Pass
	2310	50	0	5.40	<=13	Pass
16QAM	2310	50	0	6.51	<=13	Pass
	2310	50	0	6.51	<=13	Pass
	2310	50	0	6.51	<=13	Pass
64QAM	2310	50	0	6.74	<=13	Pass
	2310	50	0	6.75	<=13	Pass
	2310	50	0	6.75	<=13	Pass



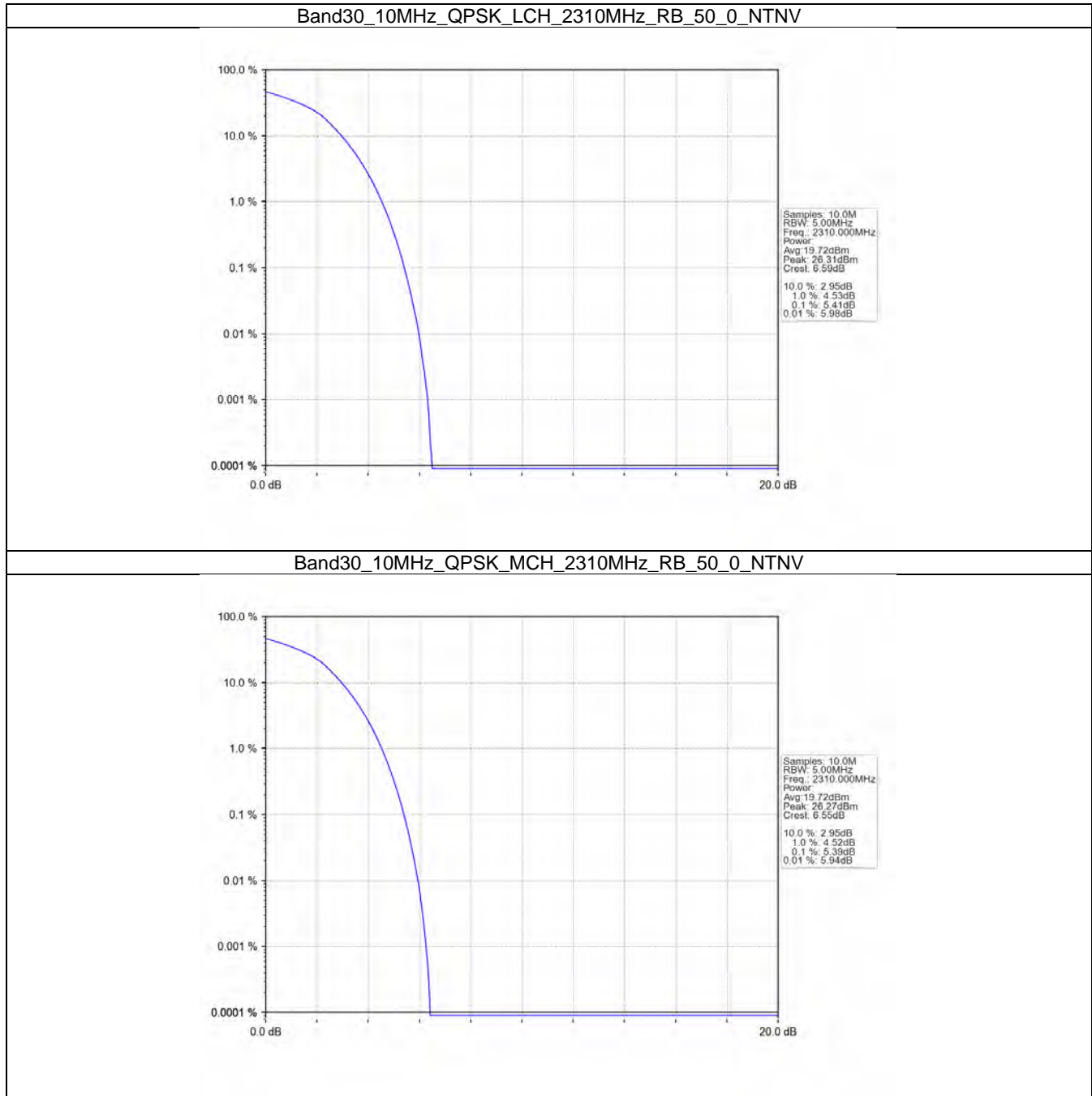
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5.2.2 Test Graph



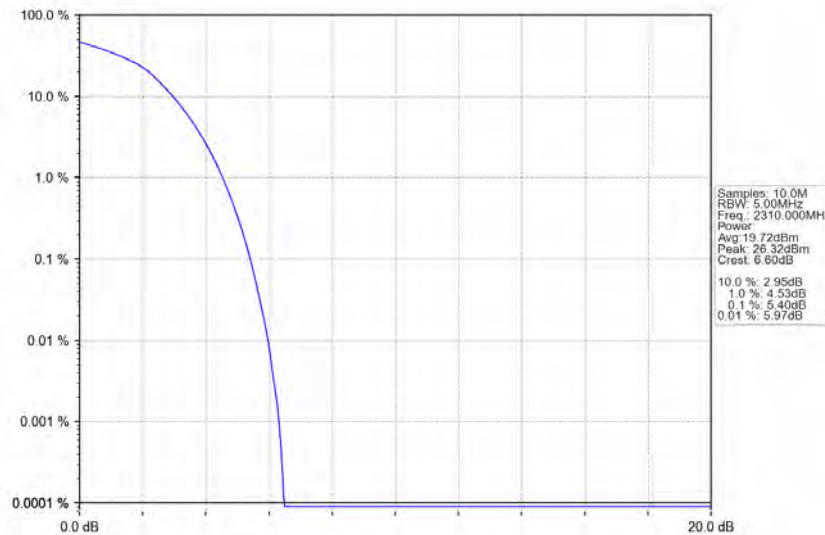
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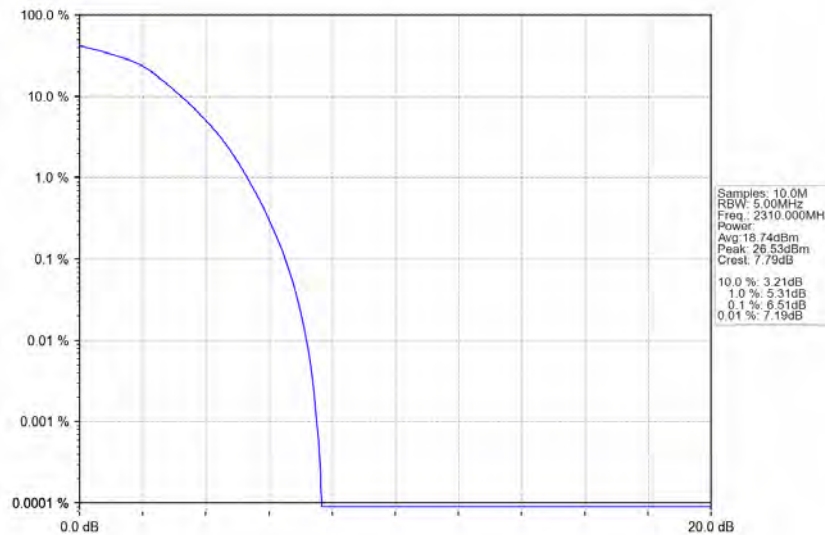
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Band30_10MHz_16QAM_LCH_2310MHz_RB_50_0_NTNV



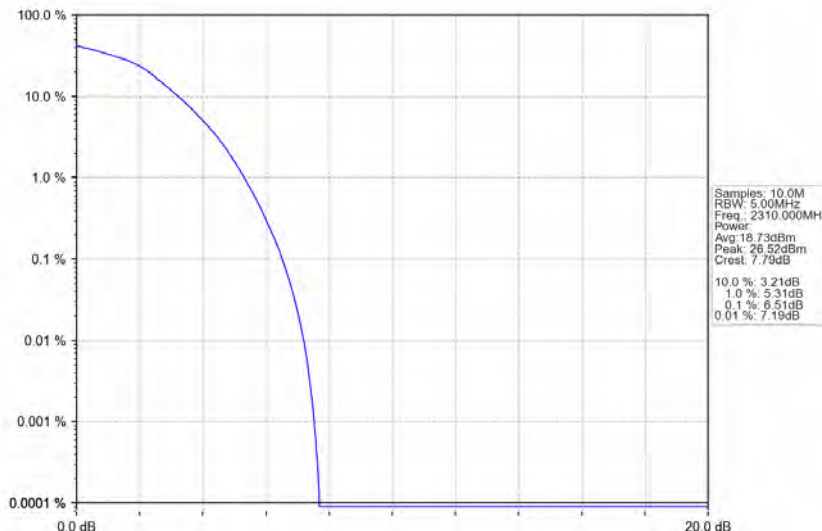
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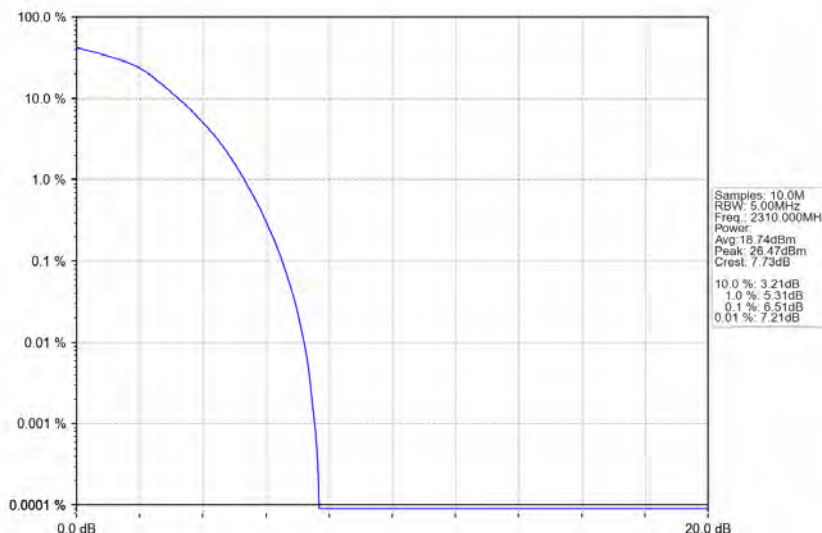
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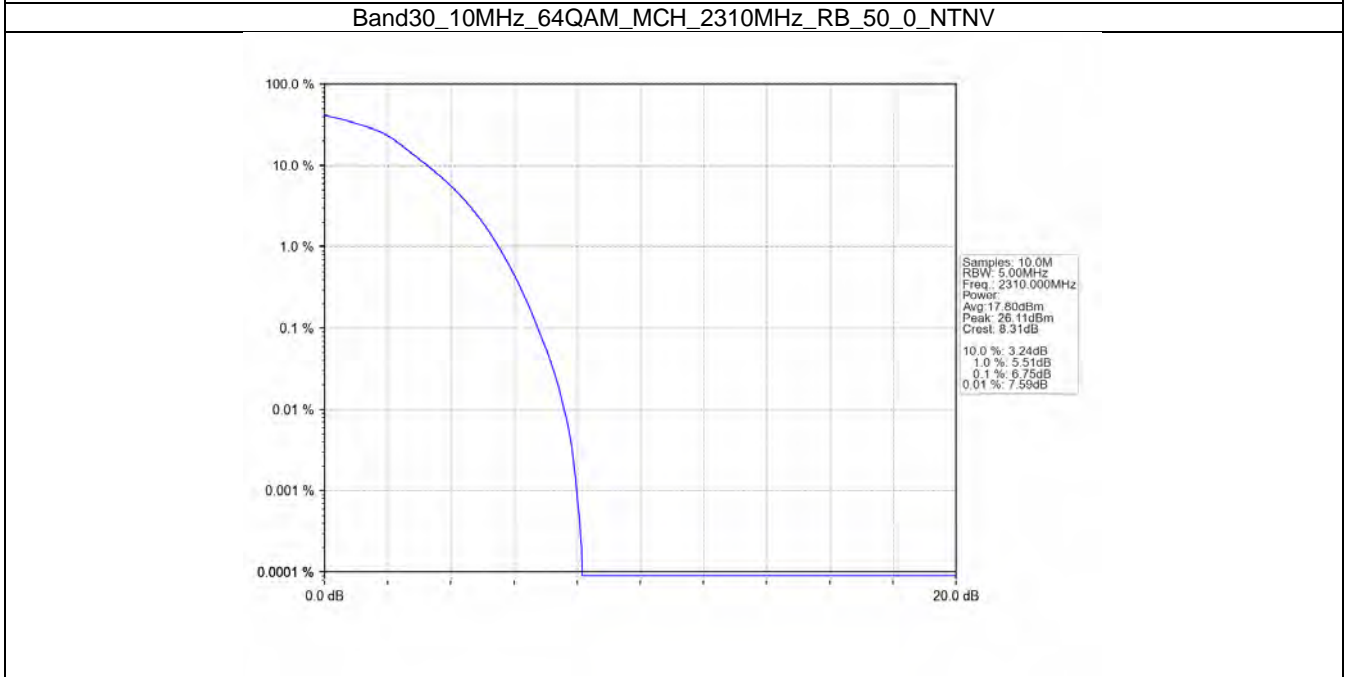
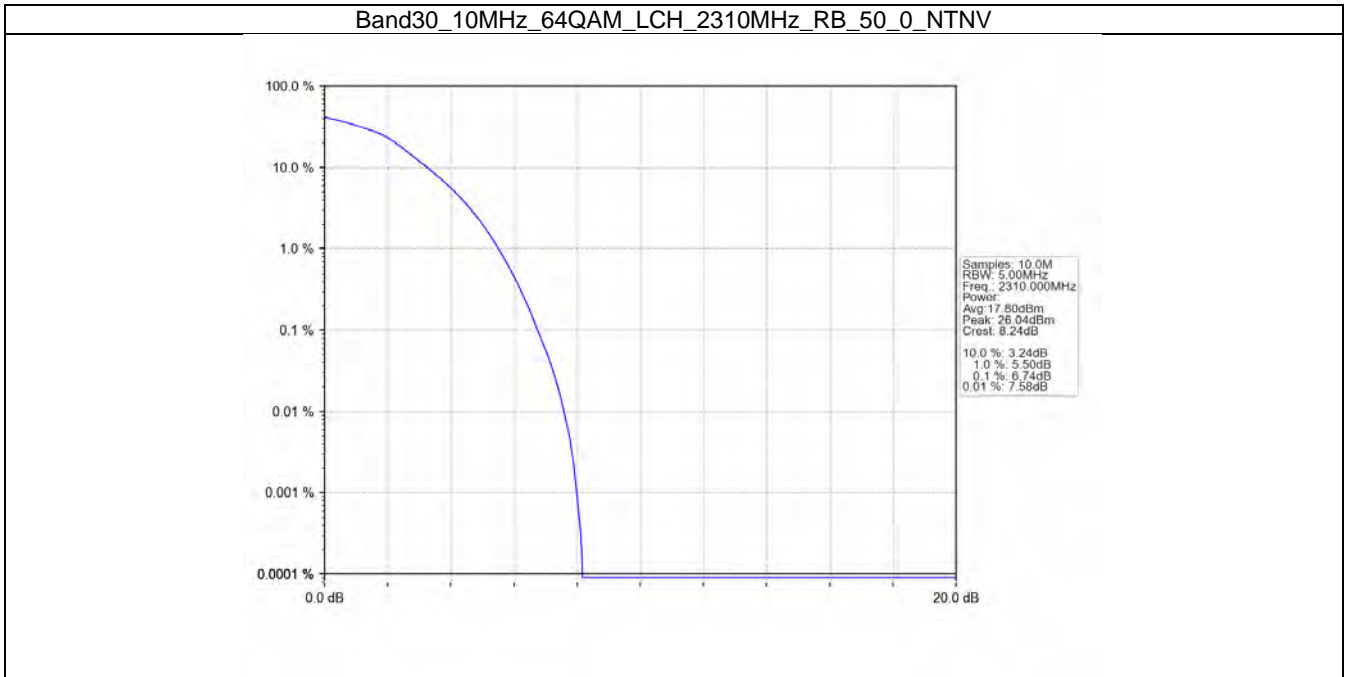


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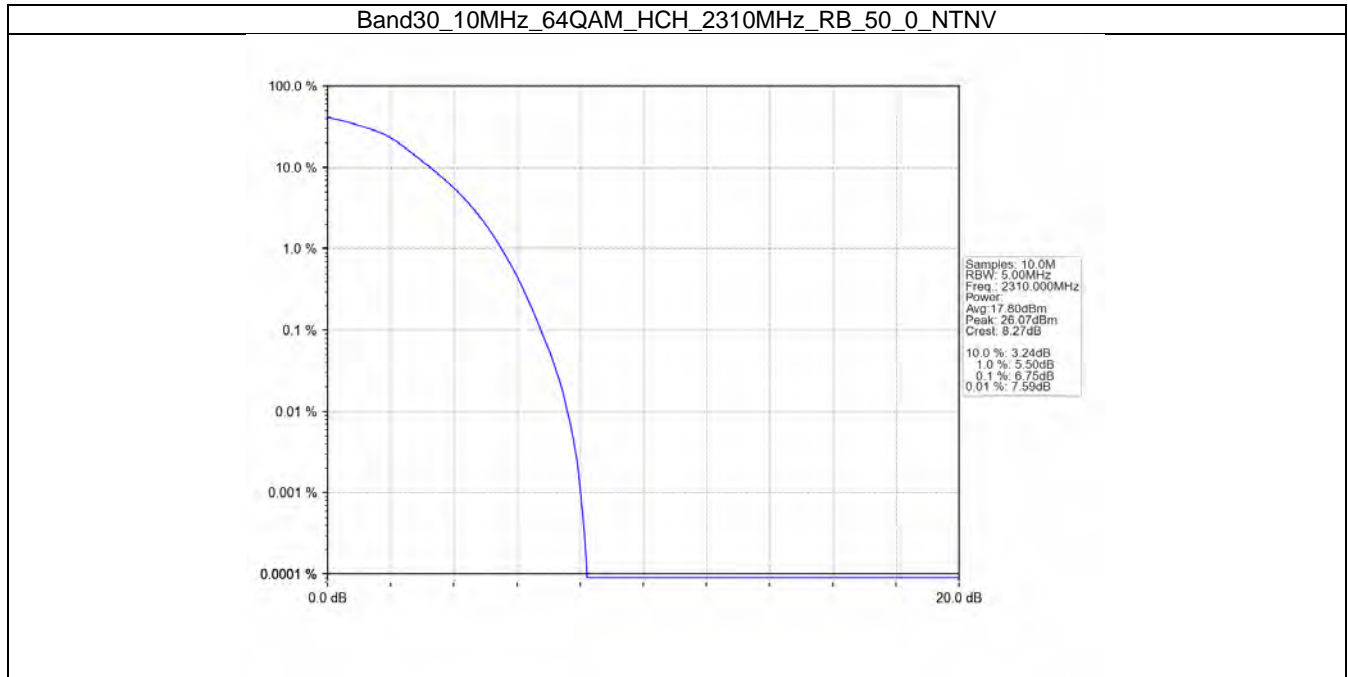
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6. Spurious Emission

6.1 B30_5MHz

6.1.1 Test Result

Band: 30 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2307.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2312.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	2307.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2312.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
64QAM	2307.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	2312.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

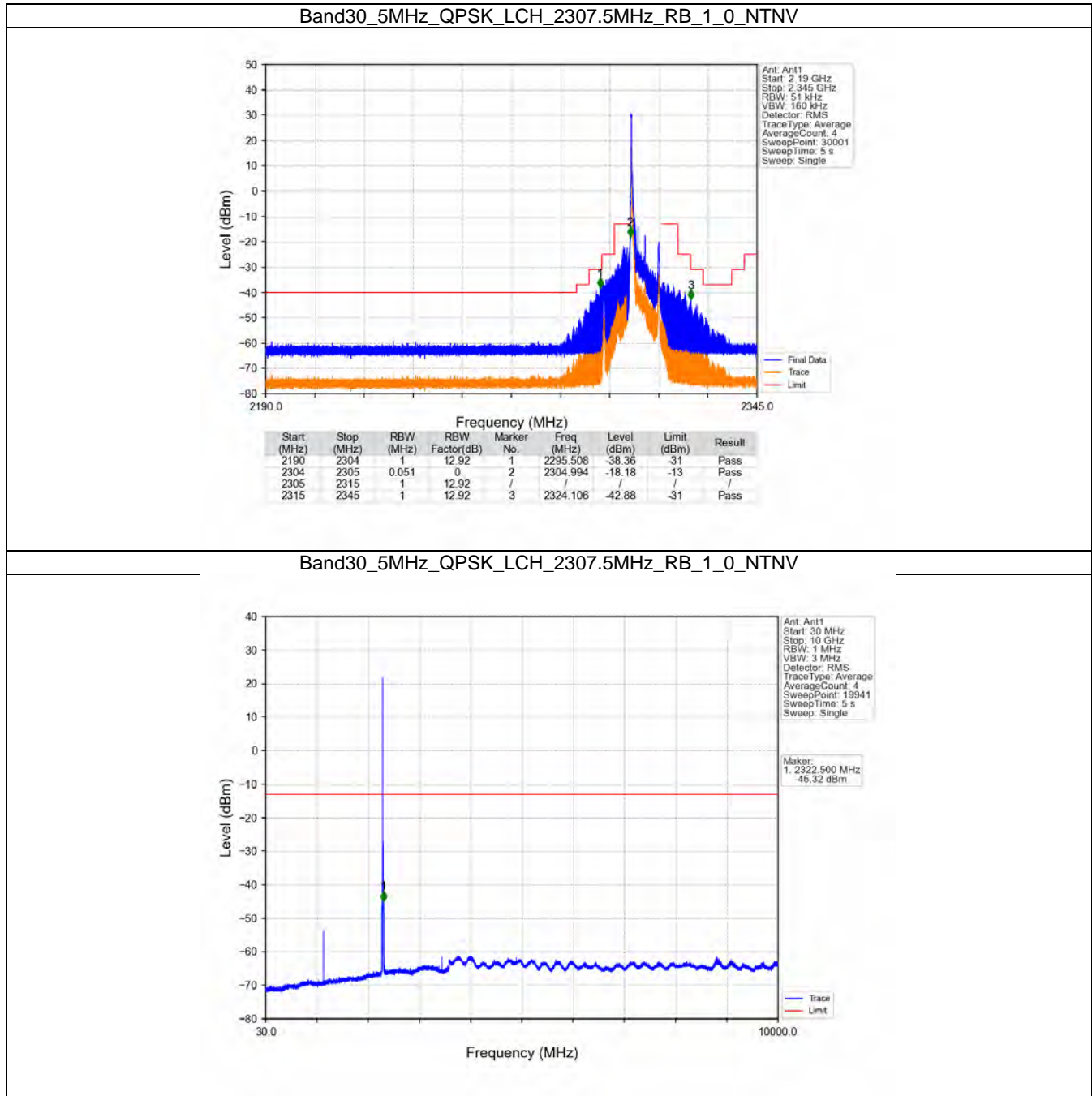


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6.1.2 Test Graph



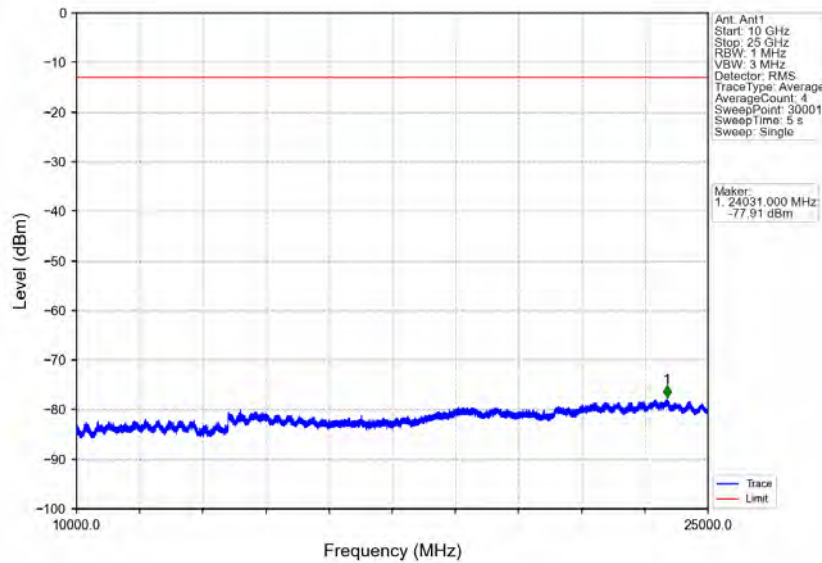
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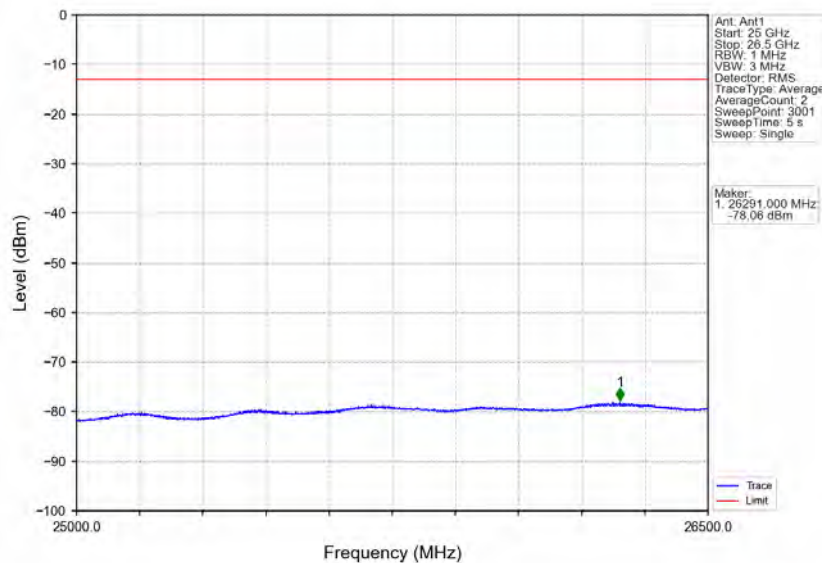
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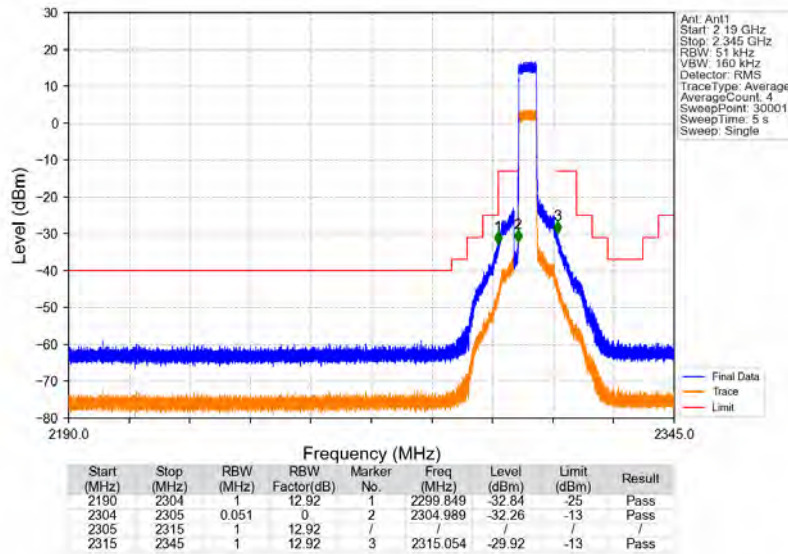
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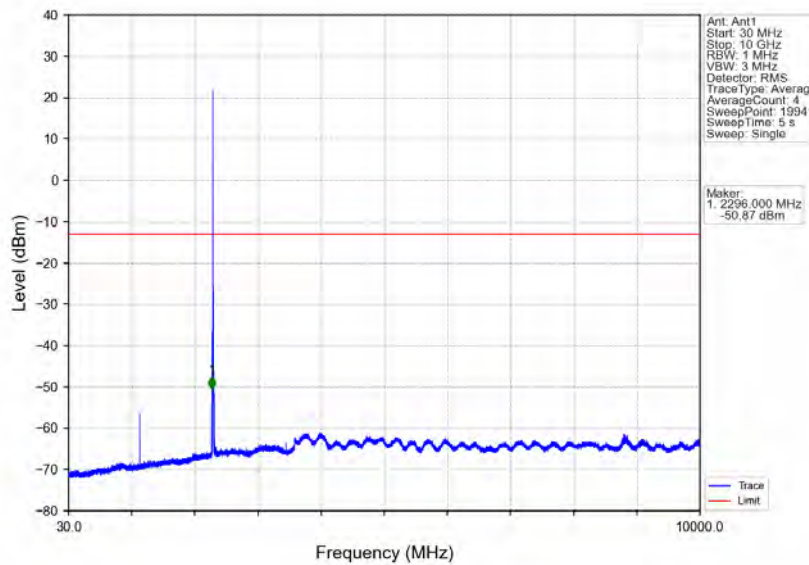
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Band30_5MHz_QPSK_MCH_2310MHz_RB_1_0_NTNV



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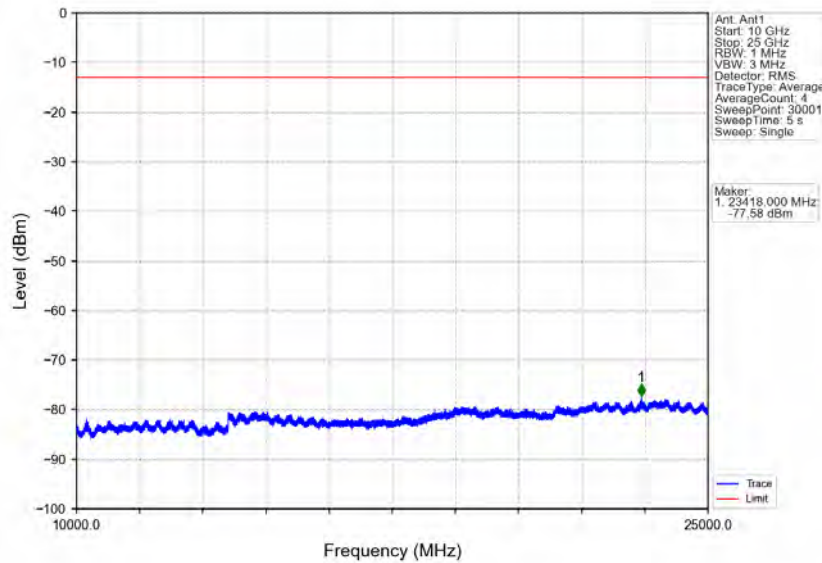
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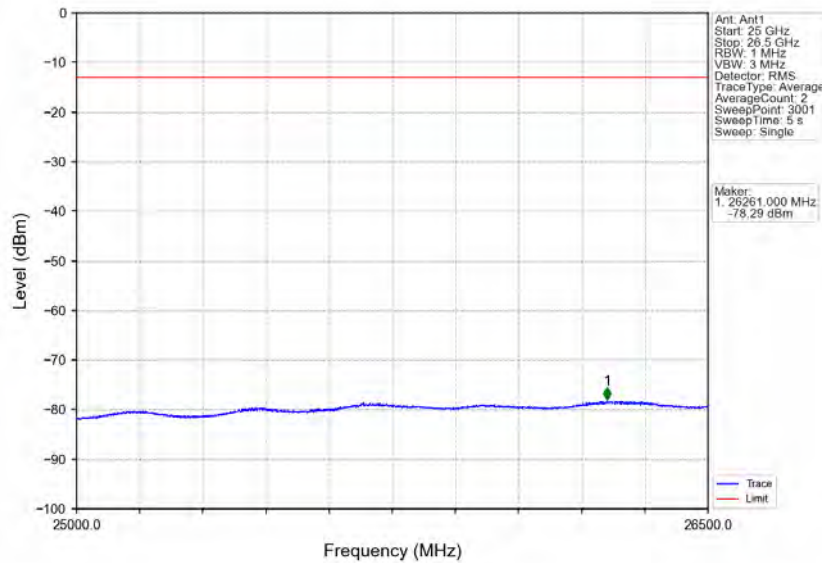
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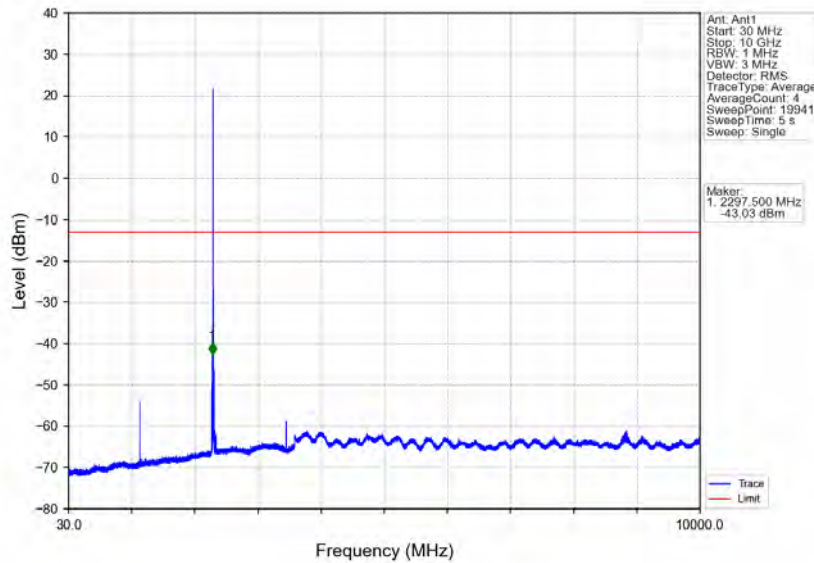
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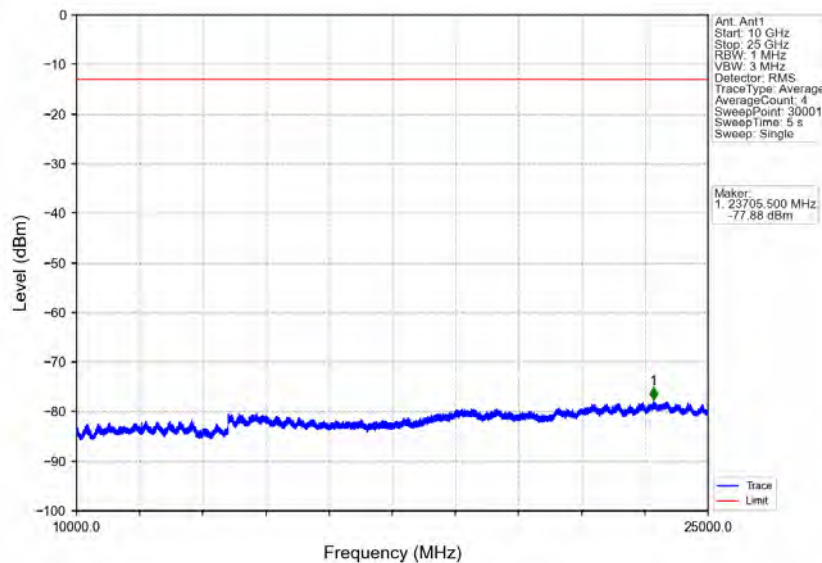
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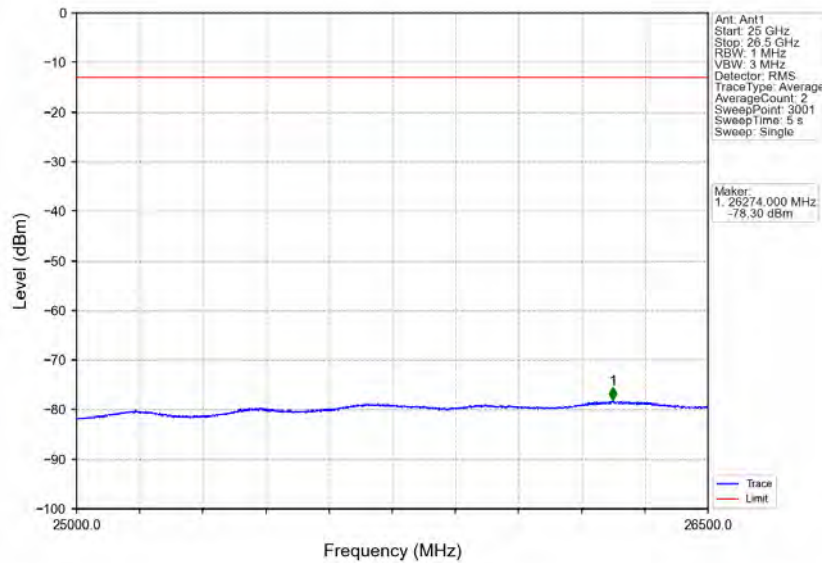
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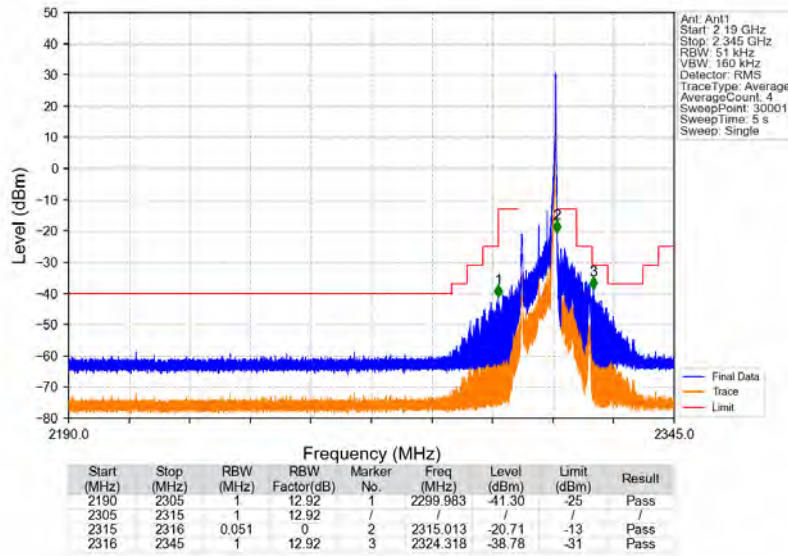
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Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_0_NTNV



Band30_5MHz_QPSK_HCH_2312.5MHz_RB_1_24_NTNV



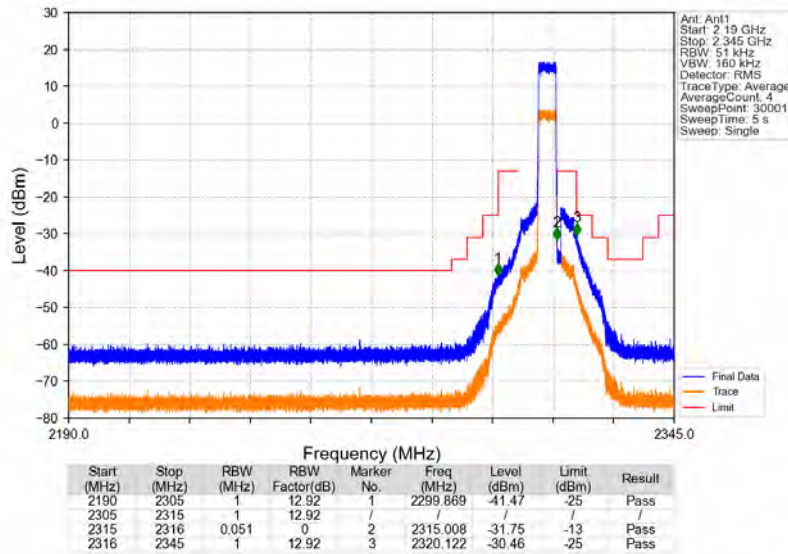
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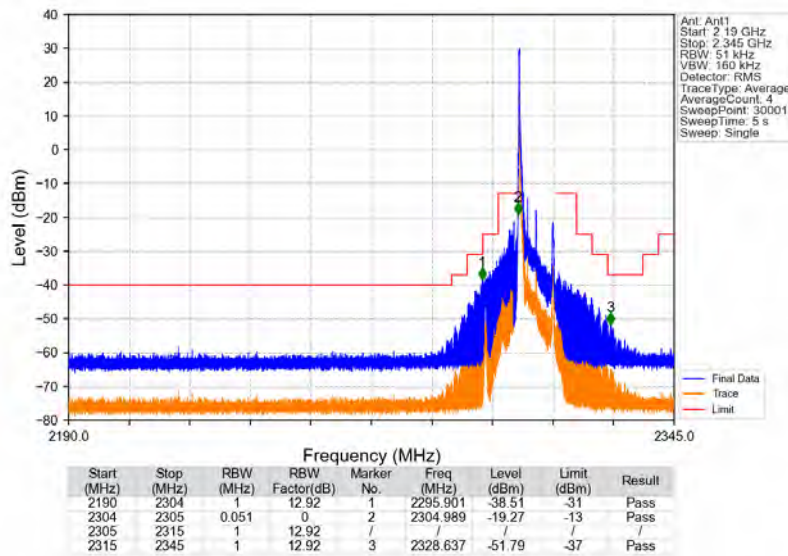
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Band30_5MHz_QPSK_HCH_2312.5MHz_RB_25_0_NTNV



Band30_5MHz_16QAM_LCH_2307.5MHz_RB_1_0_NTNV



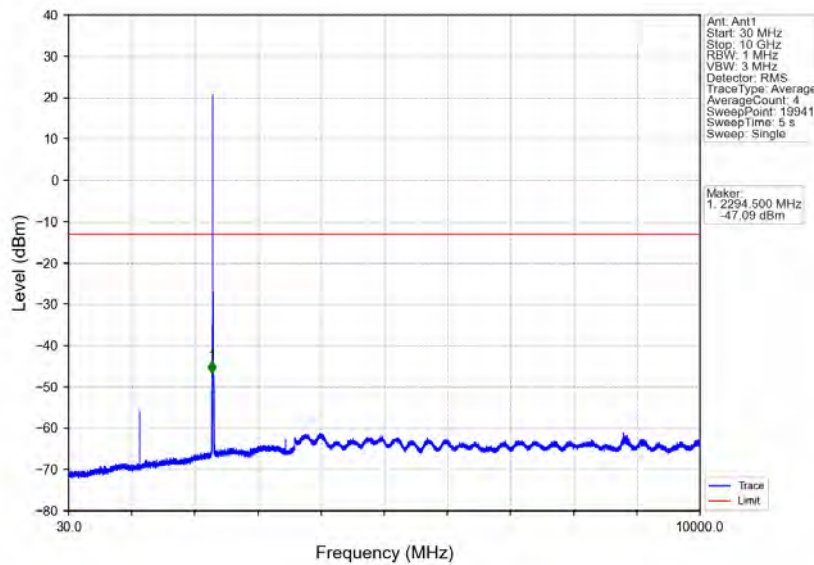
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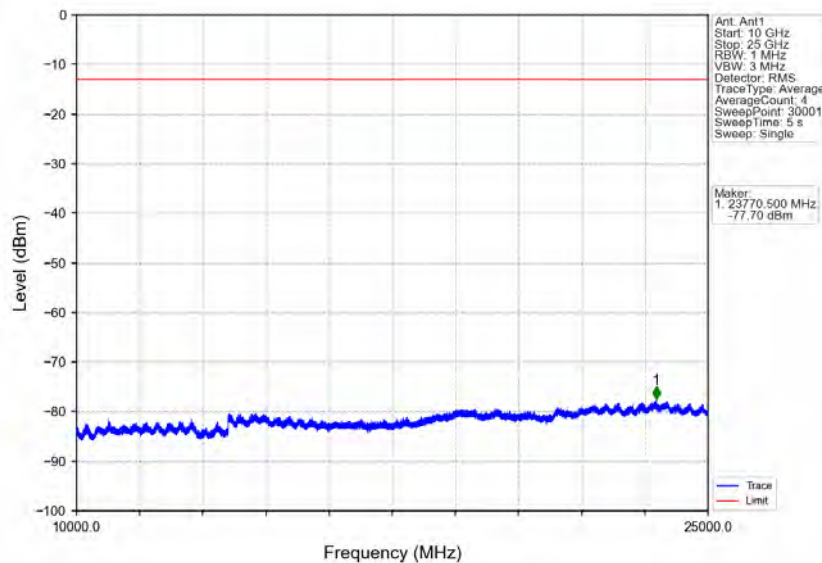
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Band30_5MHz_16QAM_LCH_2307.5MHz_RB_1_0_NTNV



Band30_5MHz_16QAM_LCH_2307.5MHz_RB_1_0_NTNV



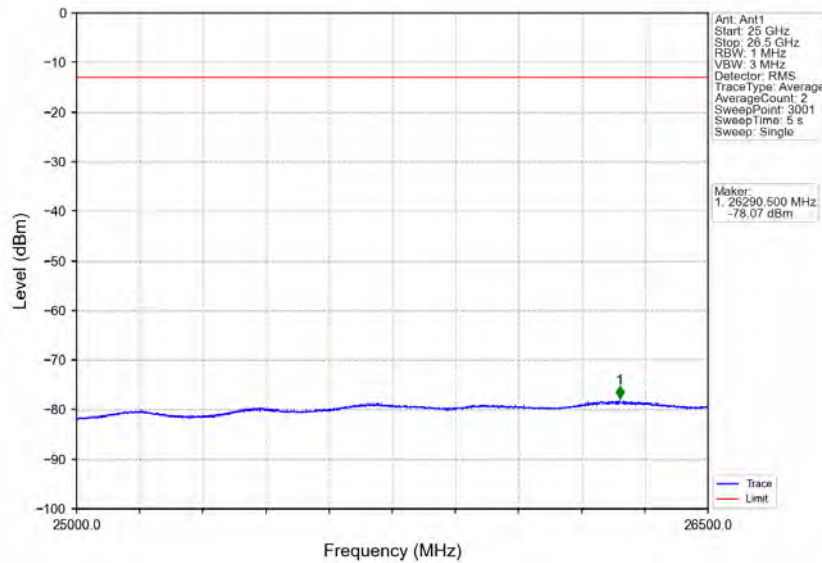
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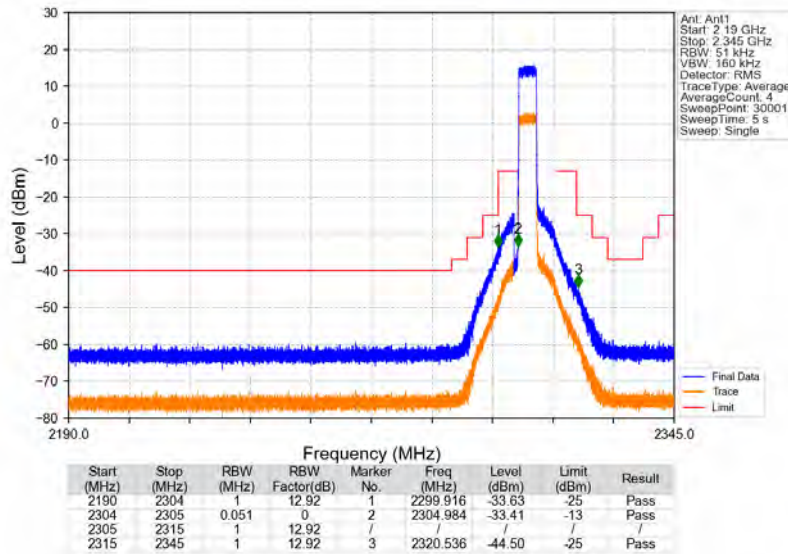
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Band30_5MHz_16QAM_LCH_2307.5MHz_RB_25_0_NTNV



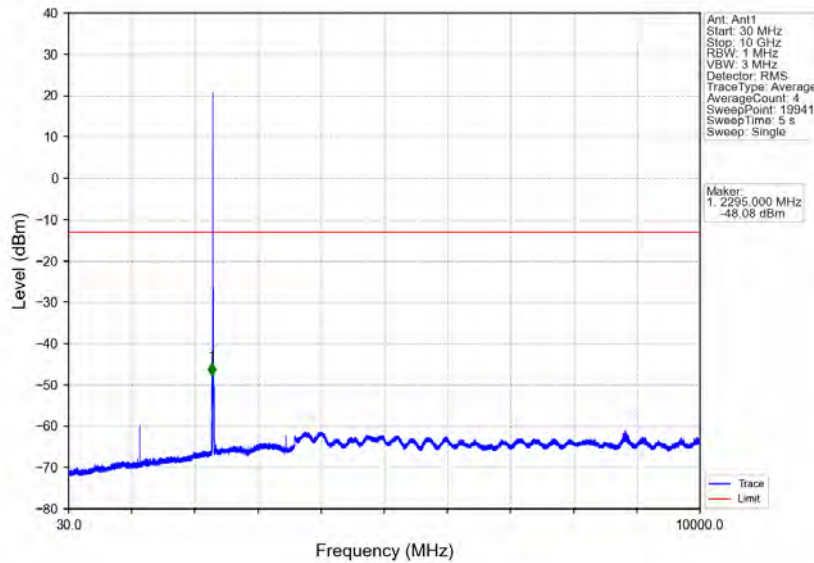
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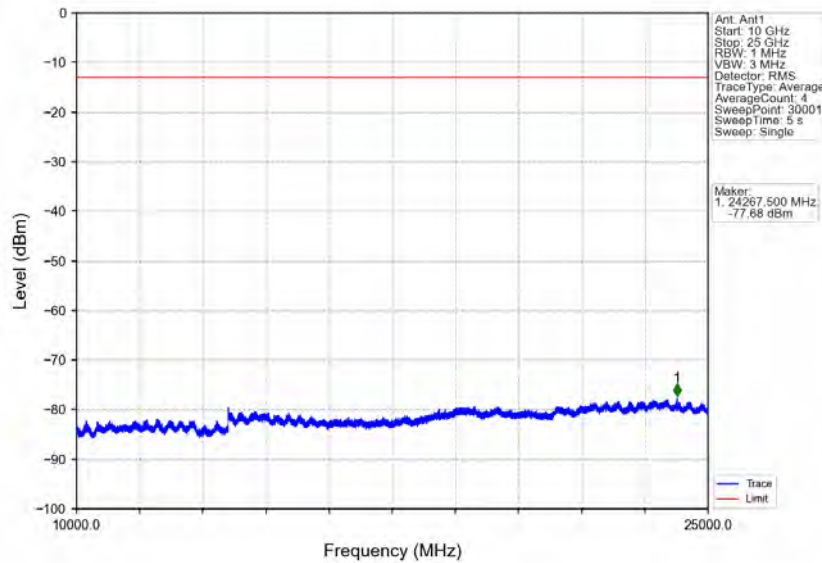
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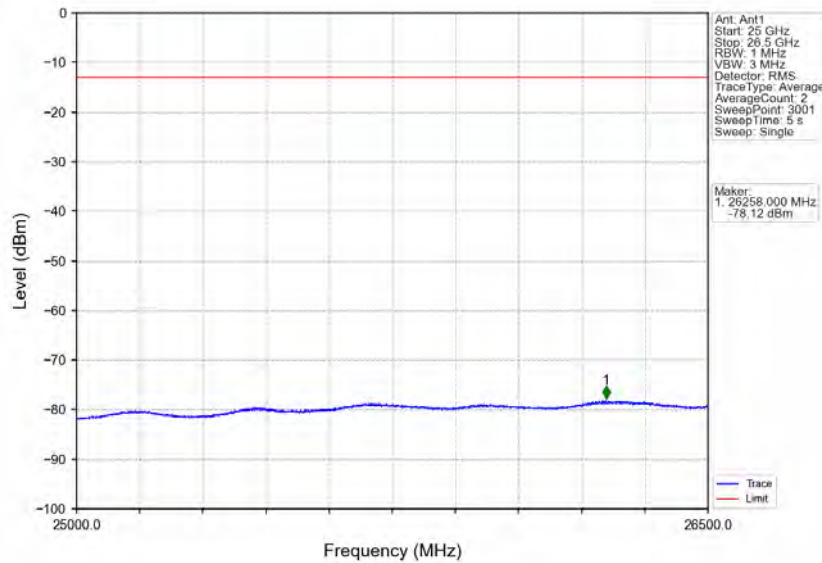
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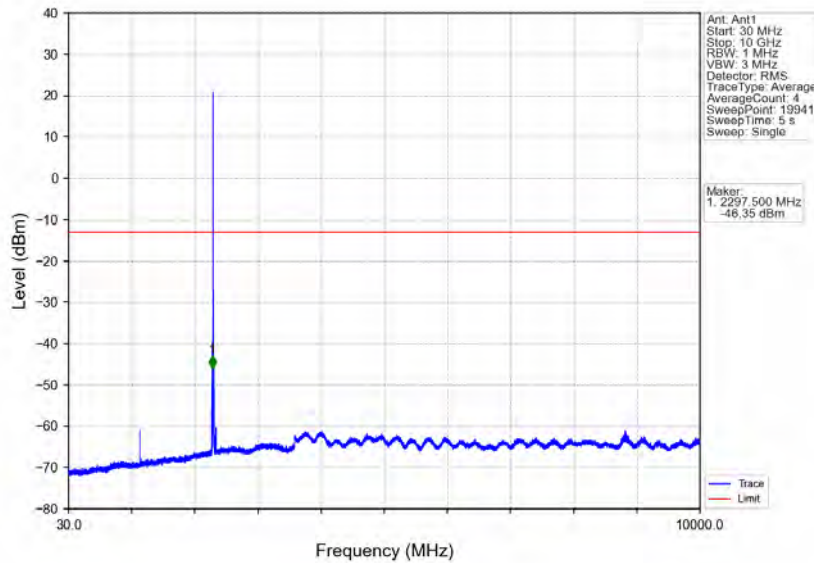
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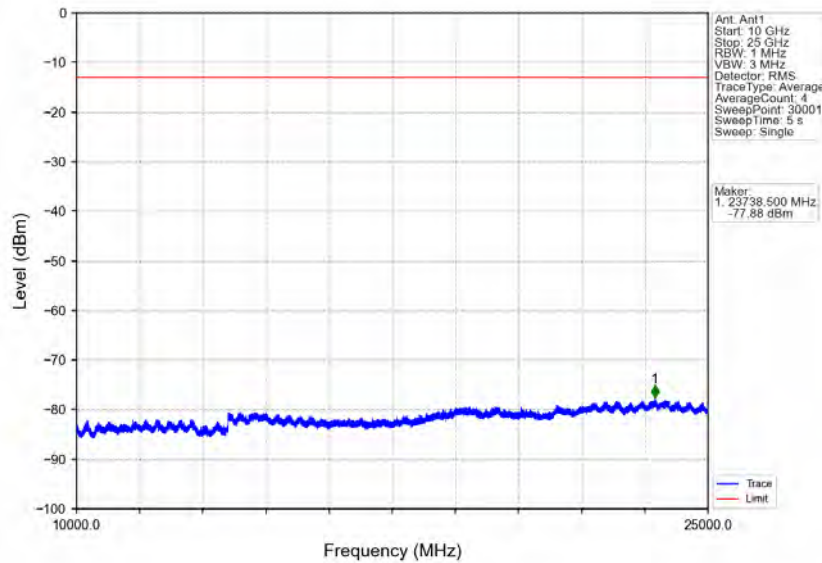
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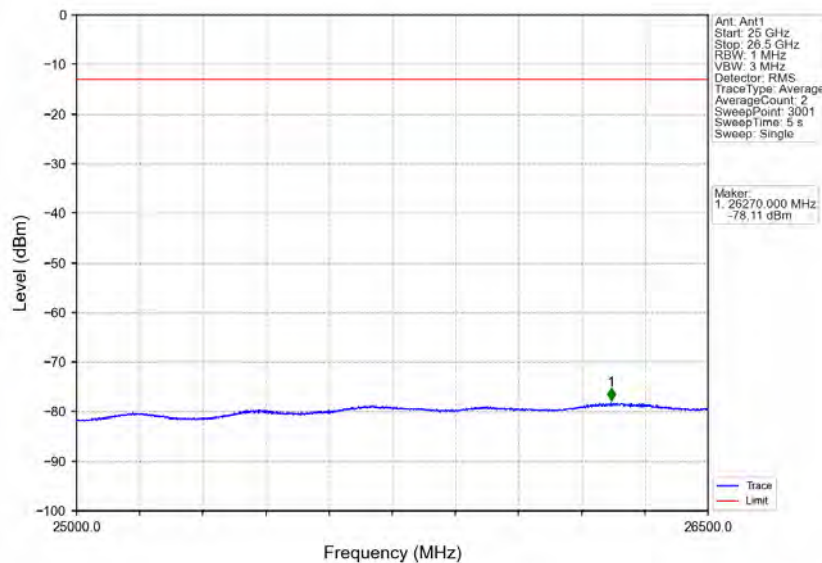
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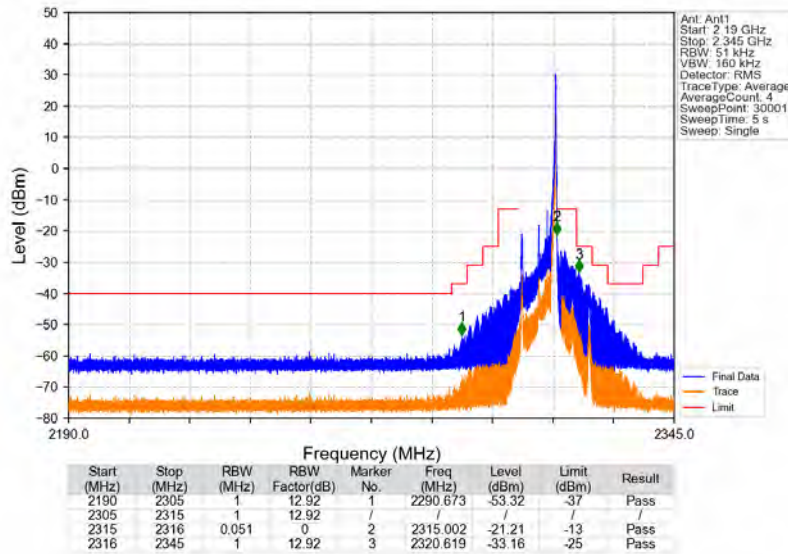
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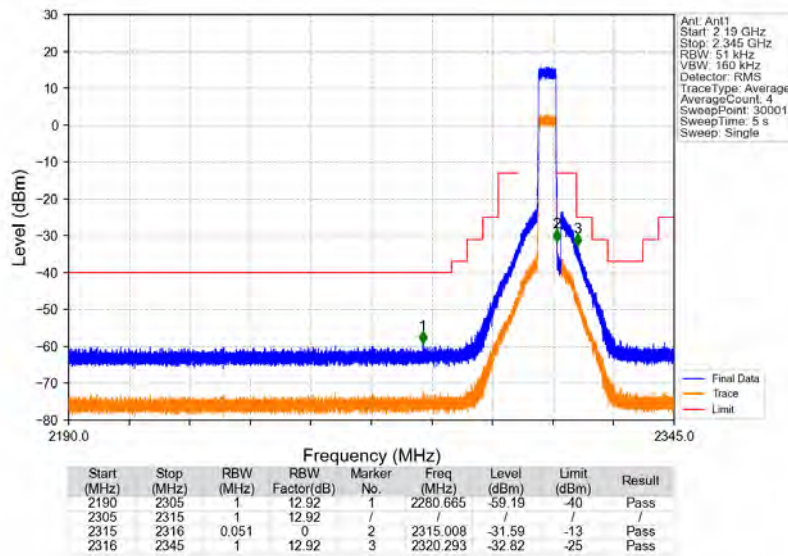
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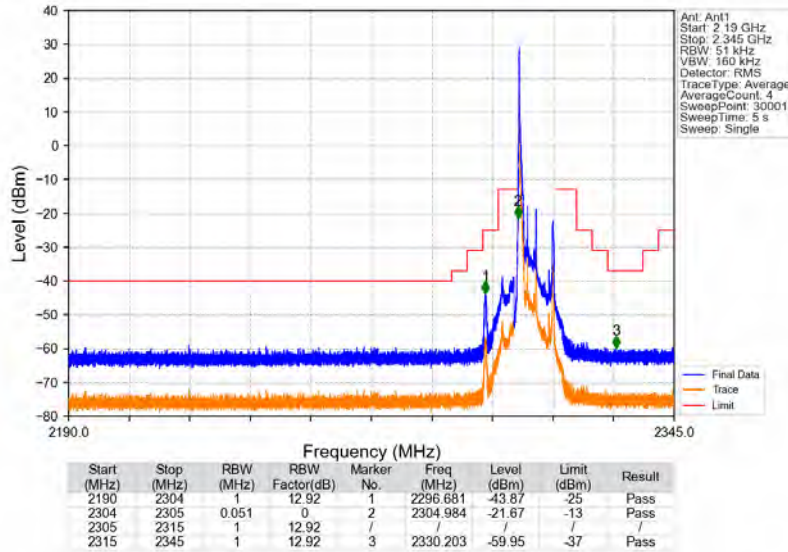
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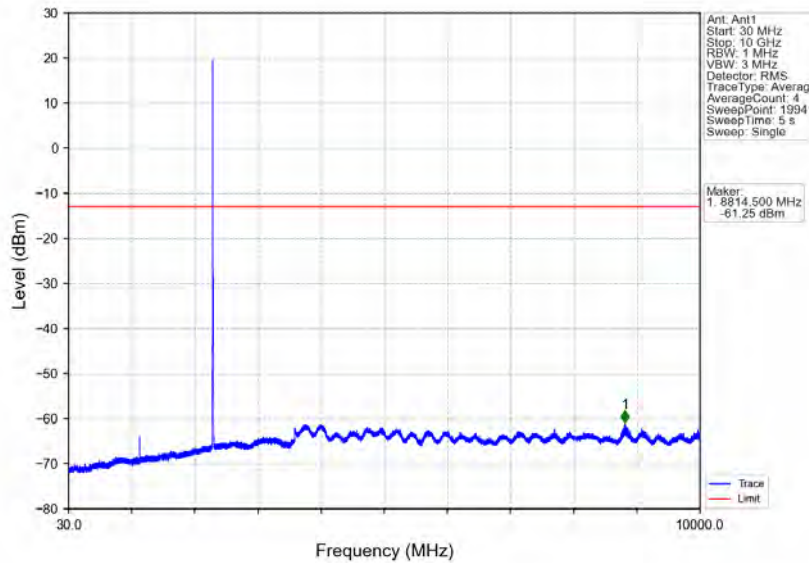
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Band30_5MHz_64QAM_LCH_2307.5MHz_RB_1_0_NTNV



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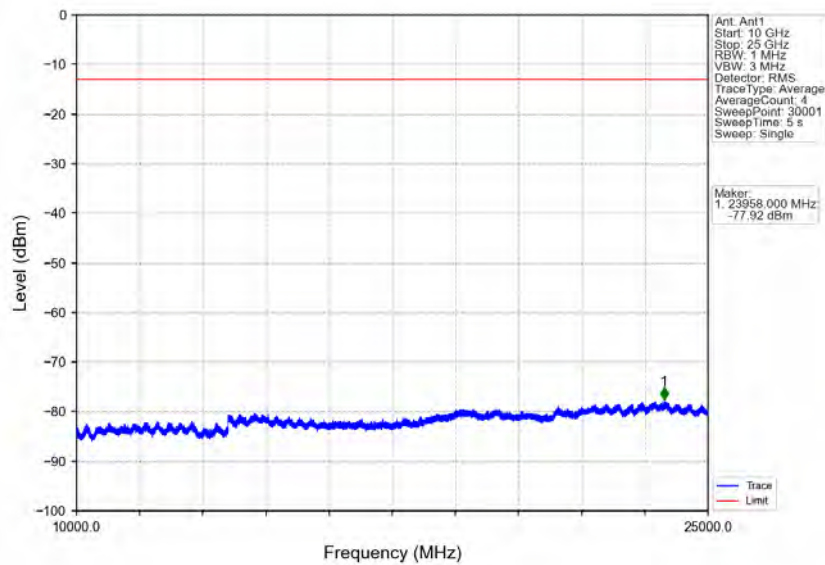
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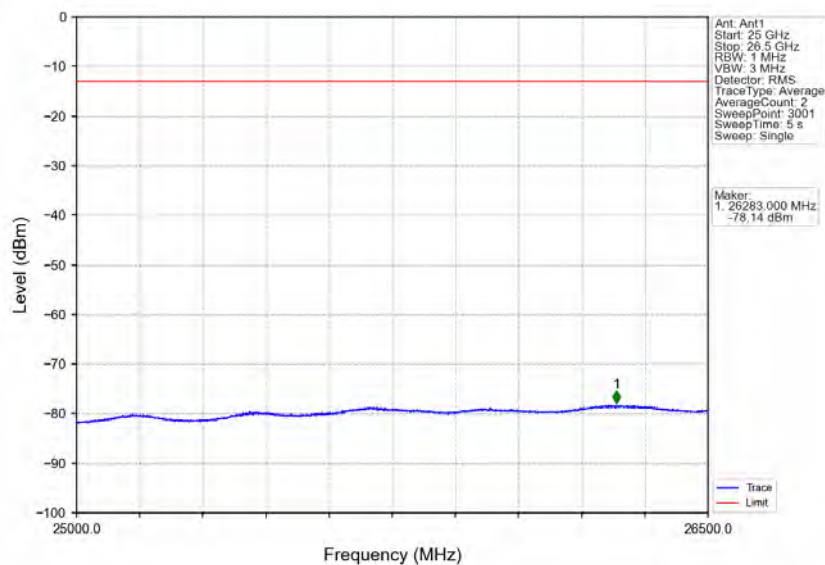


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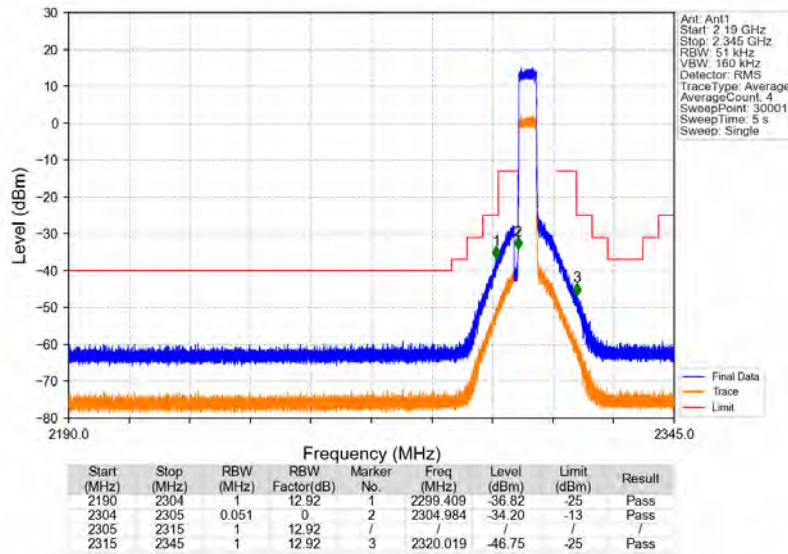
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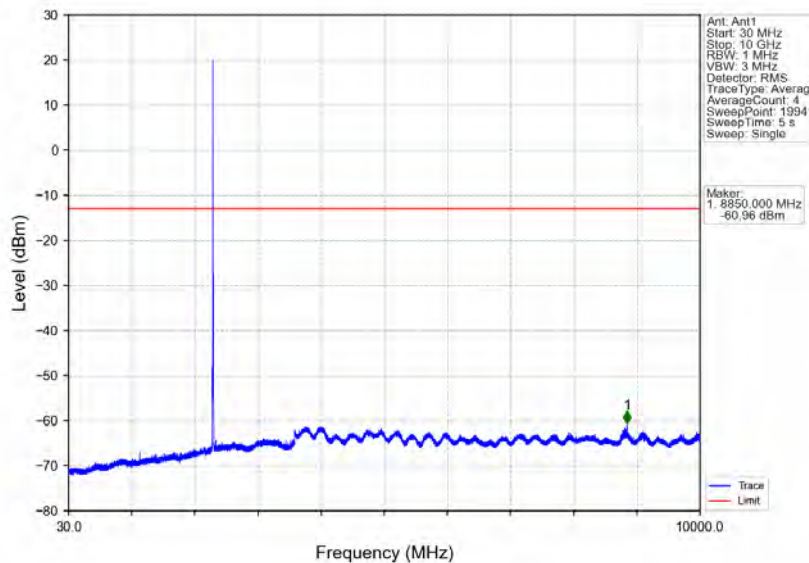
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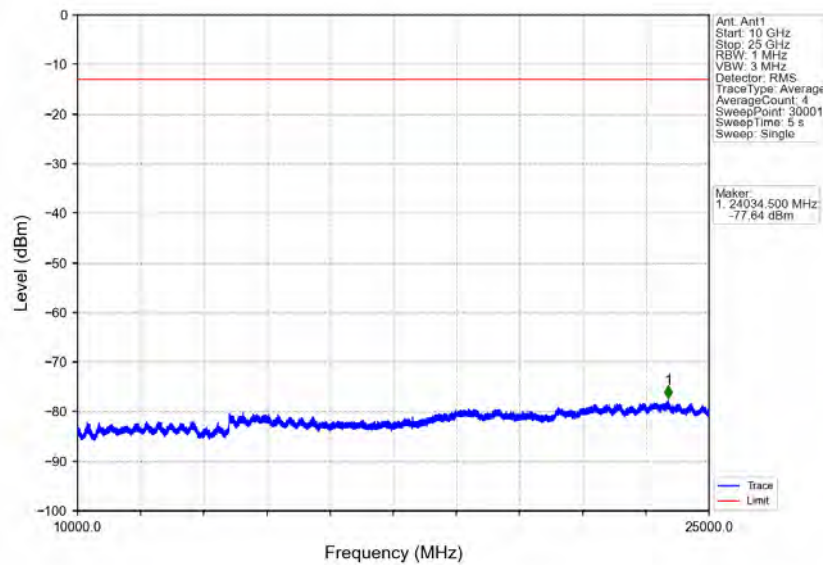
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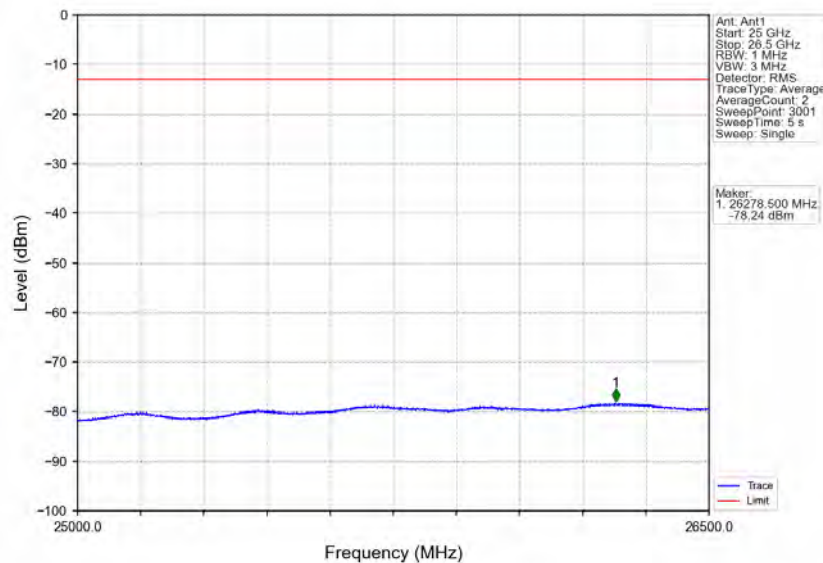
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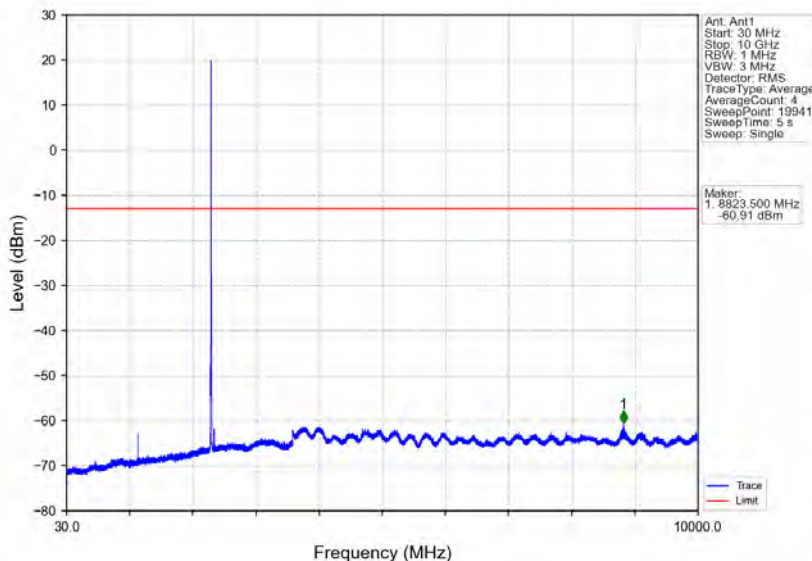
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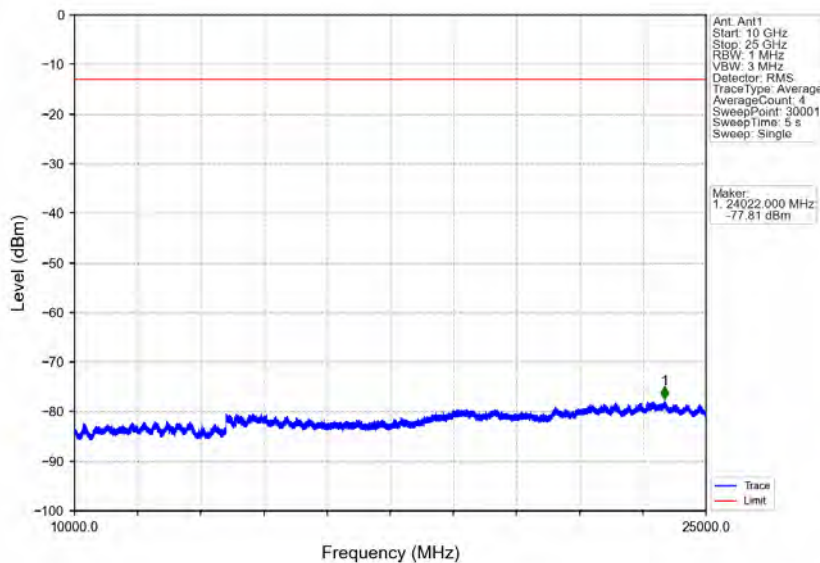
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Band30_5MHz_64QAM_HCH_2312.5MHz_RB_1_0_NTNV



Band30_5MHz_64QAM_HCH_2312.5MHz_RB_1_0_NTNV



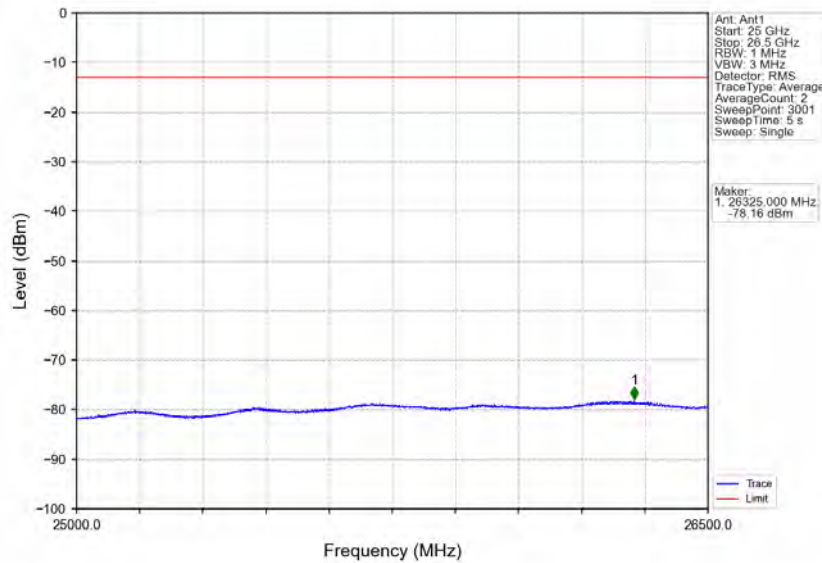
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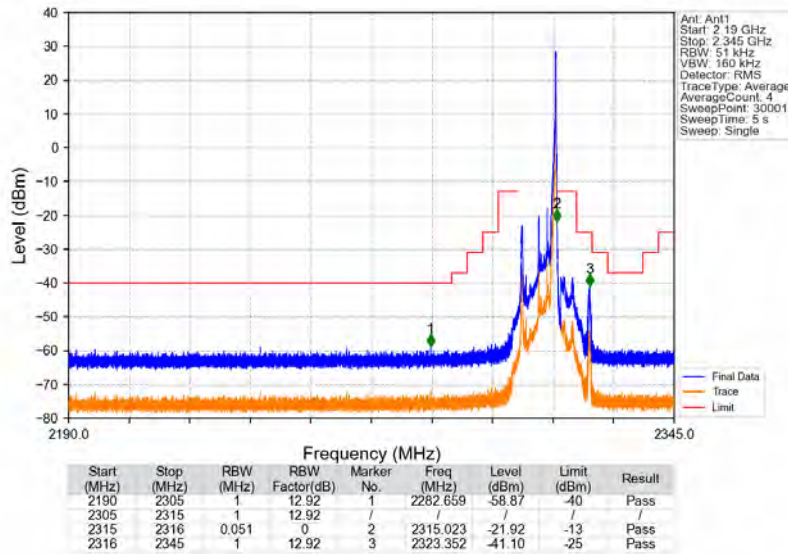
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Band30_5MHz_64QAM_HCH_2312.5MHz_RB_1_0_NTNV



Band30_5MHz_64QAM_HCH_2312.5MHz_RB_1_24_NTNV



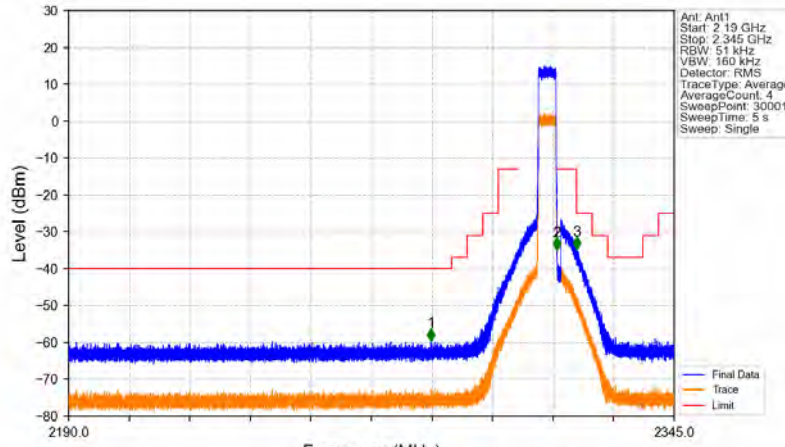
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Band30_5MHz_64QAM_HCH_2312.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2305	1	12.92	1	2262.726	-59.56	-40	Pass
2305	2315	1	12.92	/	/	/	/	/
2315	2316	0.051	0	2	2315.008	-35.02	-13	Pass
2316	2345	1	12.92	3	2320.076	-34.88	-25	Pass



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6.2 B30_10MHz

6.2.1 Test Result

Band: 30 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	2310	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
		1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	2310	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
		1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
64QAM	2310	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	2310	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
		1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

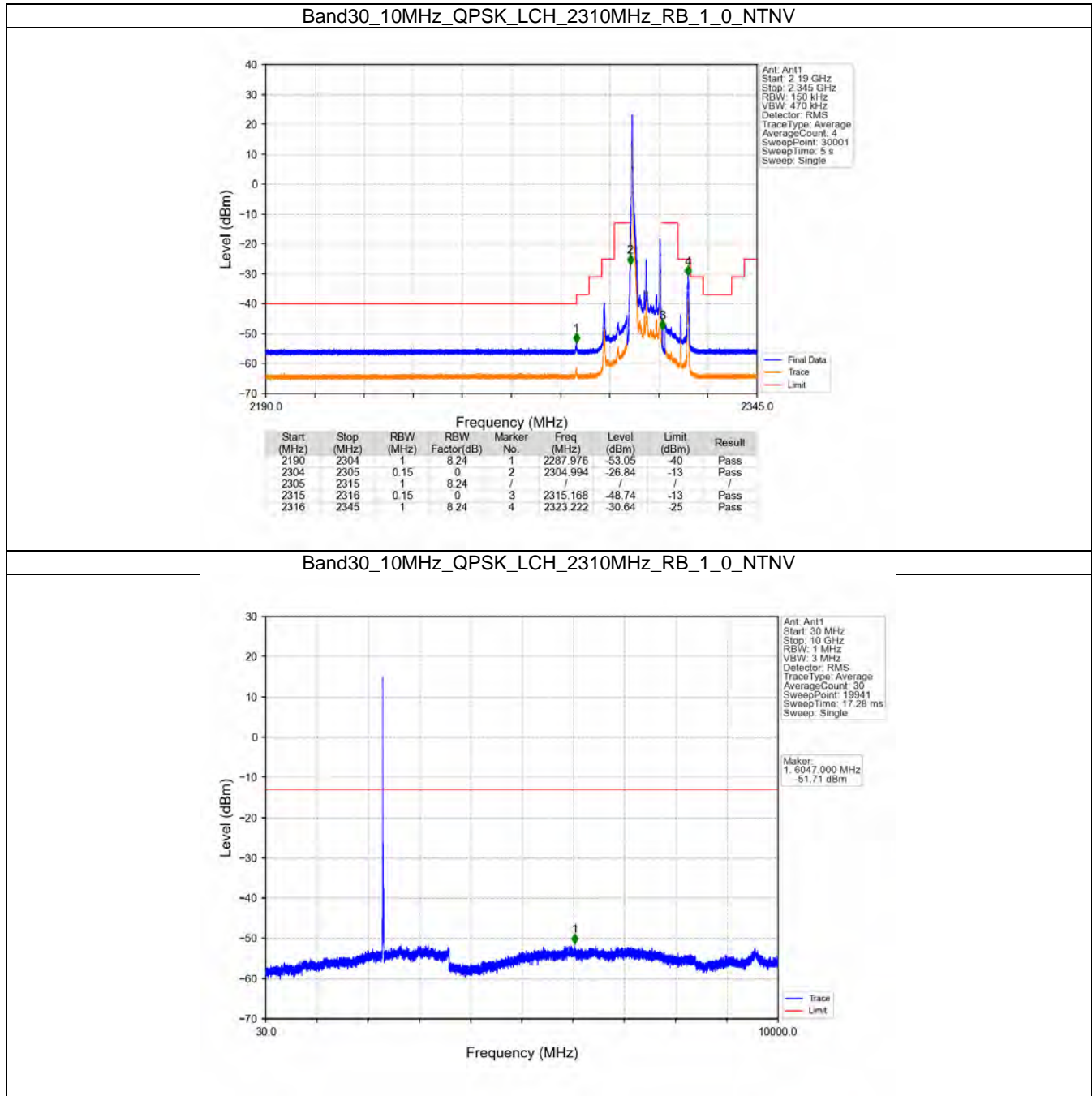


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6.2.2 Test Graph

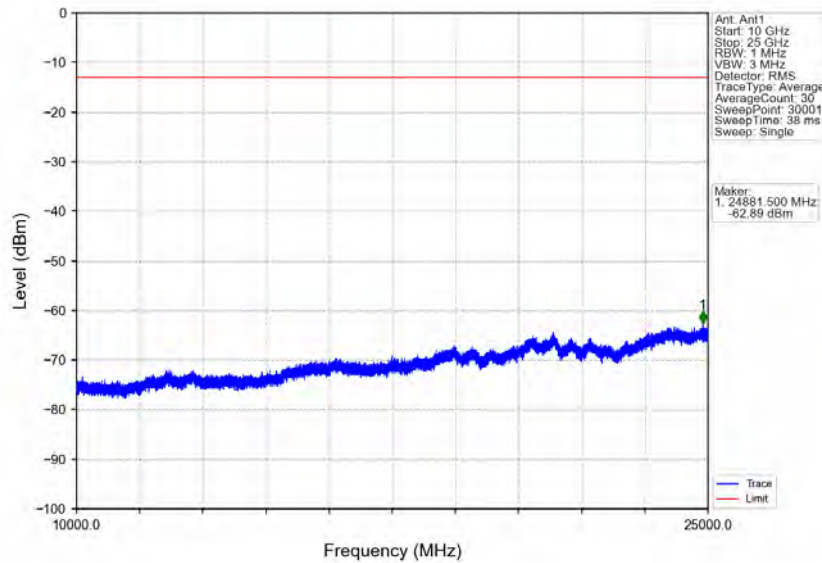


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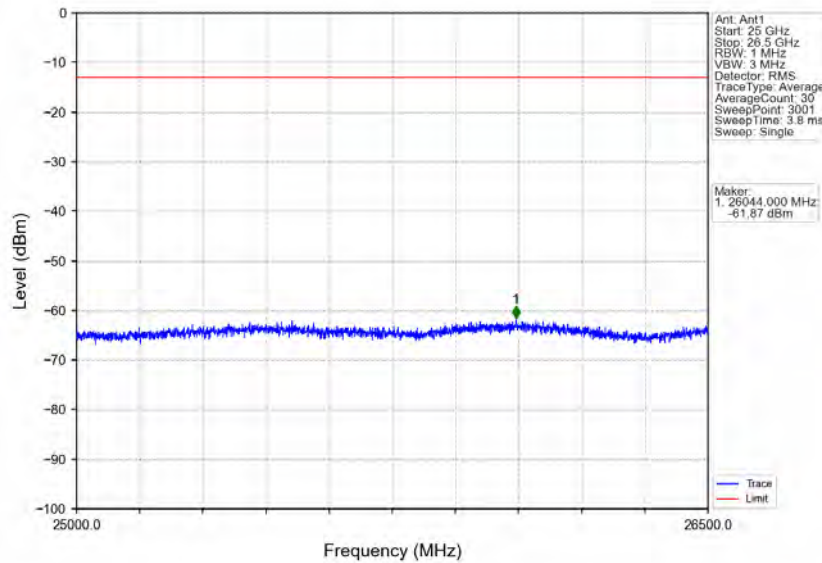
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Band30_10MHz_QPSK_LCH_2310MHz_RB_1_0_NTNV



Band30_10MHz_QPSK_LCH_2310MHz_RB_1_0_NTNV

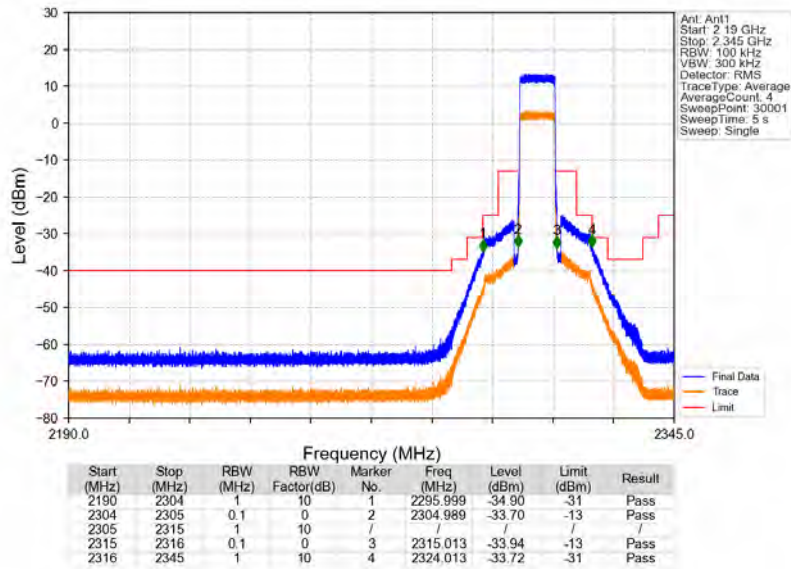


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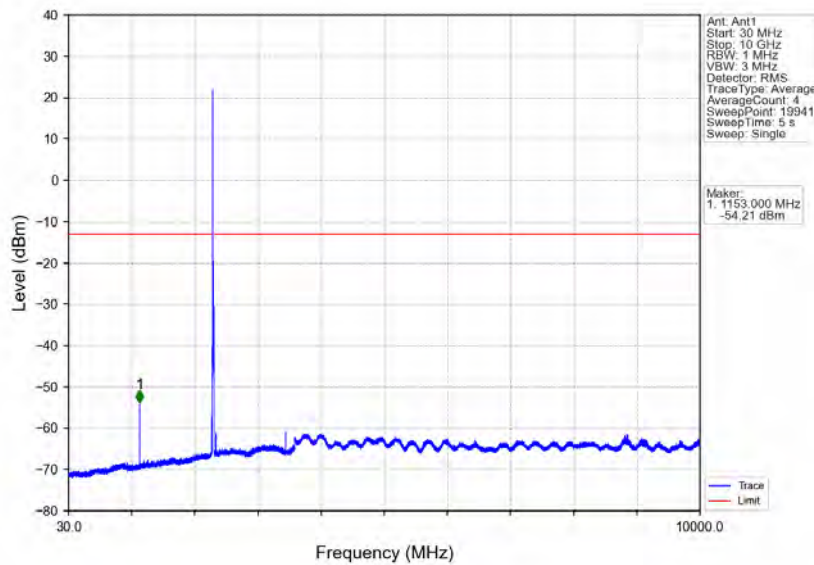
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Band30_10MHz_QPSK_LCH_2310MHz_RB_50_0_NTNV



Band30_10MHz_QPSK_MCH_2310MHz_RB_1_0_NTNV



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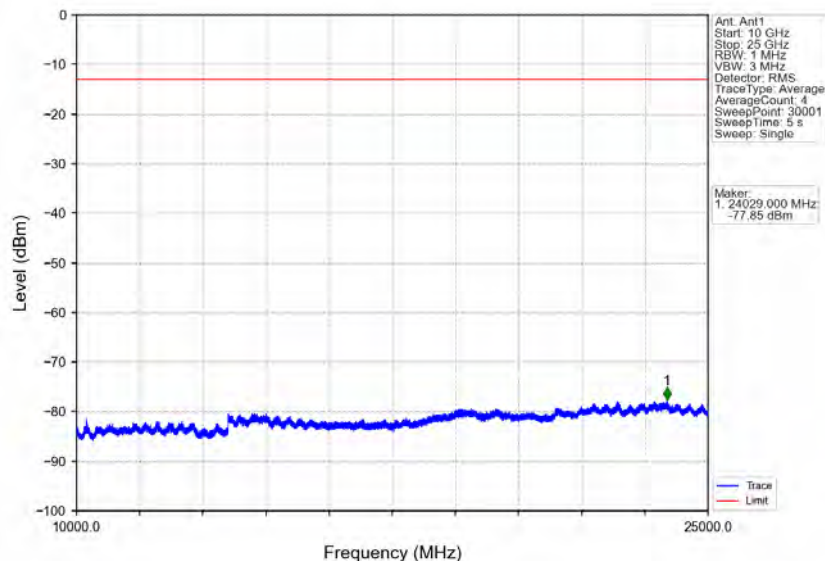
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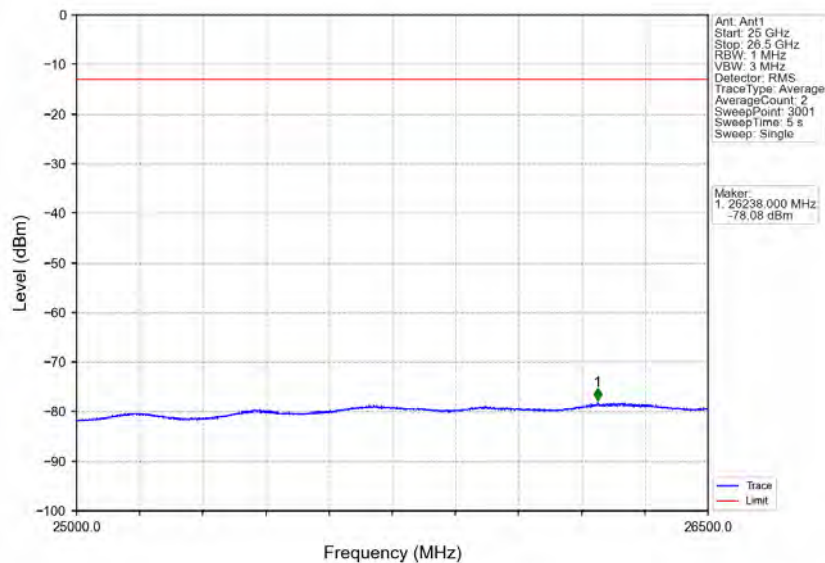
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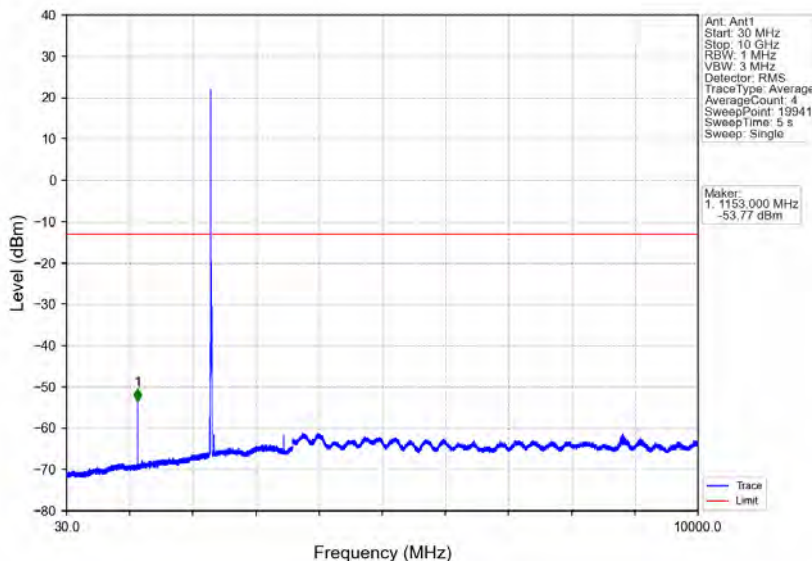
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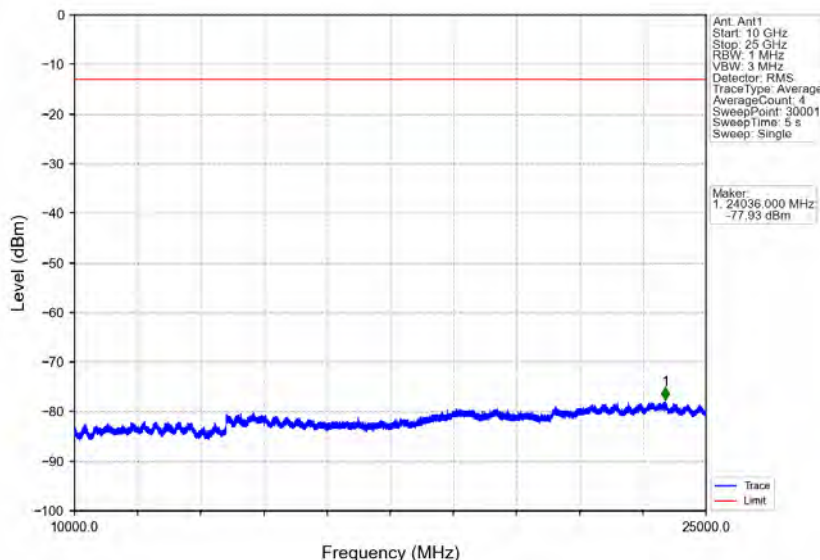
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Band30_10MHz_QPSK_HCH_2310MHz_RB_1_0_NTNV



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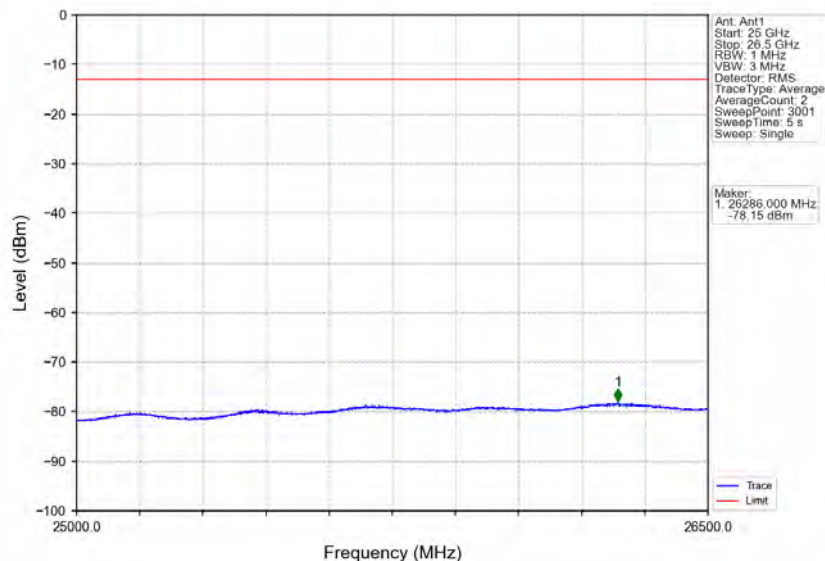
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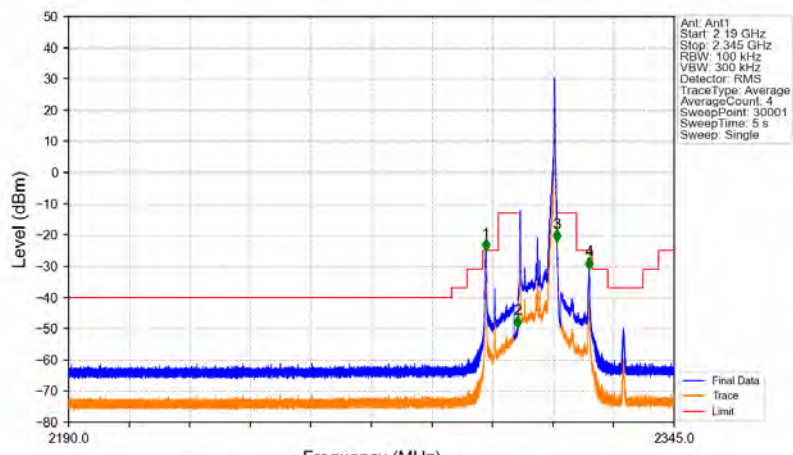
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Band30_10MHz_QPSK_HCH_2310MHz_RB_1_0_NTNV



Band30_10MHz_QPSK_HCH_2310MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	10	1	2296.759	-25.19	-25	Pass
2304	2305	0.1	0	2	2304.958	-49.85	-13	Pass
2305	2315	1	10	/	/	/	/	/
2315	2316	0.1	0	3	2315.002	-22.26	-13	Pass
2316	2345	1	10	4	2323.243	-31.08	-25	Pass



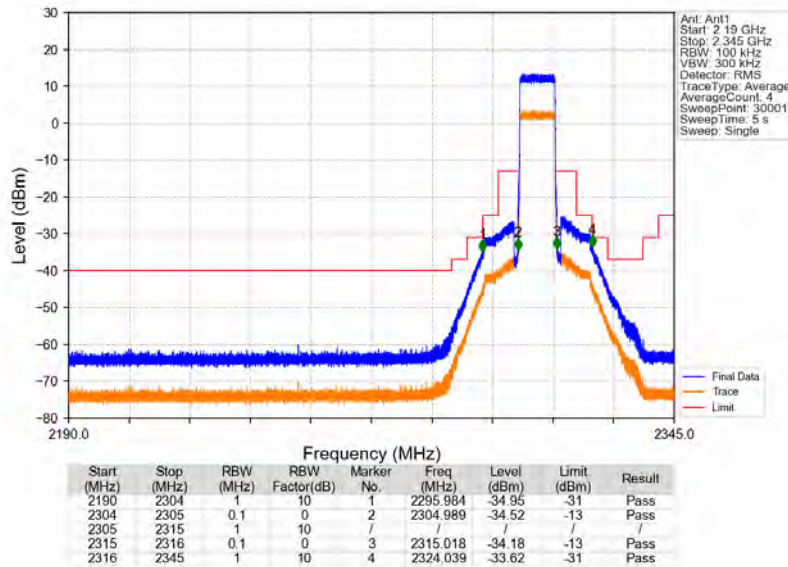
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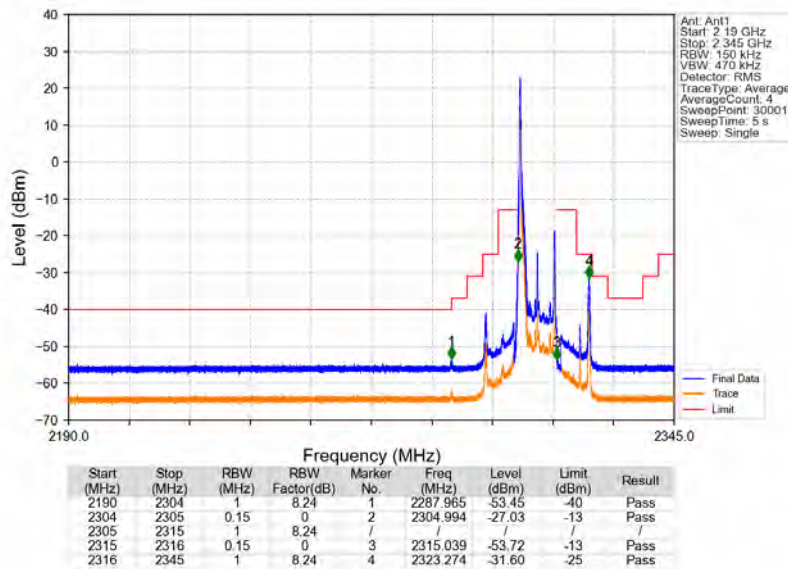
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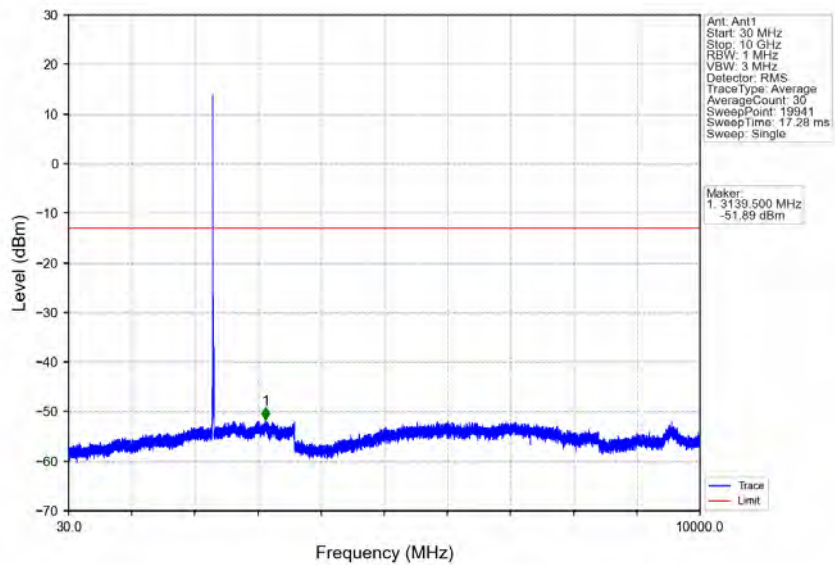
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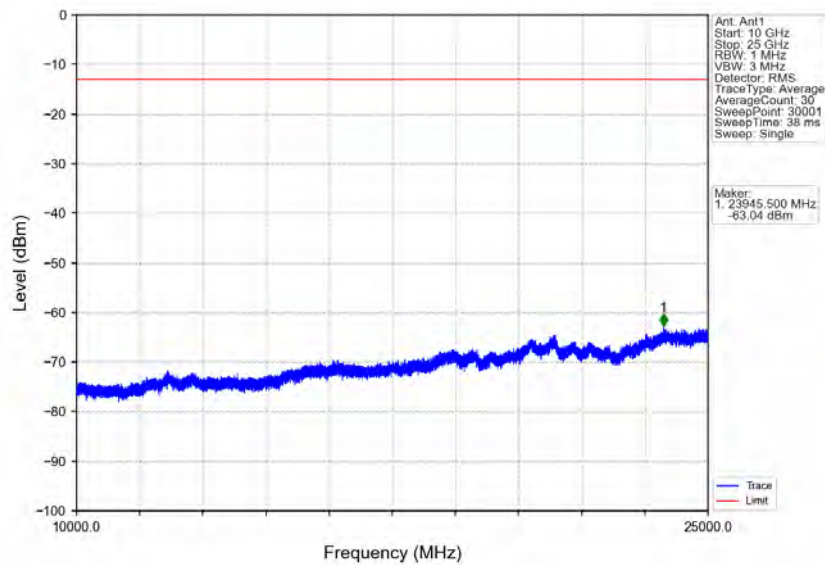
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Band30_10MHz_16QAM_LCH_2310MHz_RB_1_0_NTNV



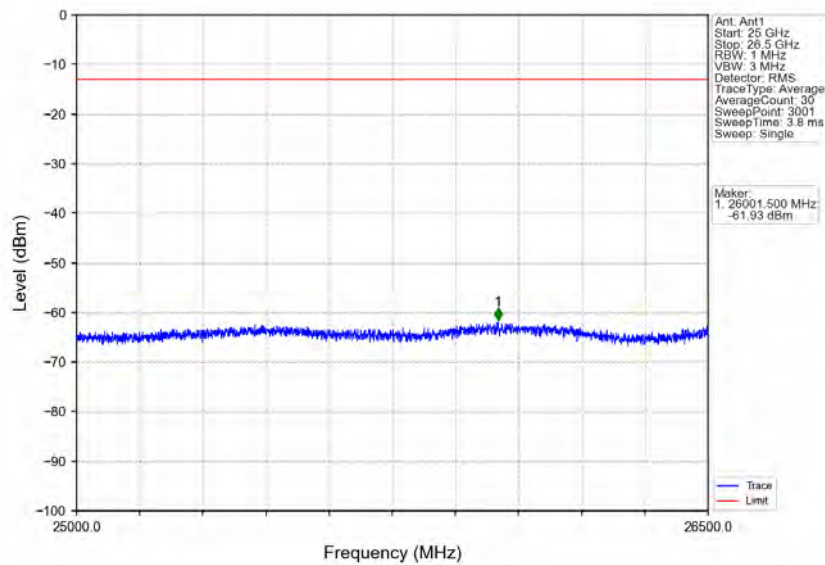
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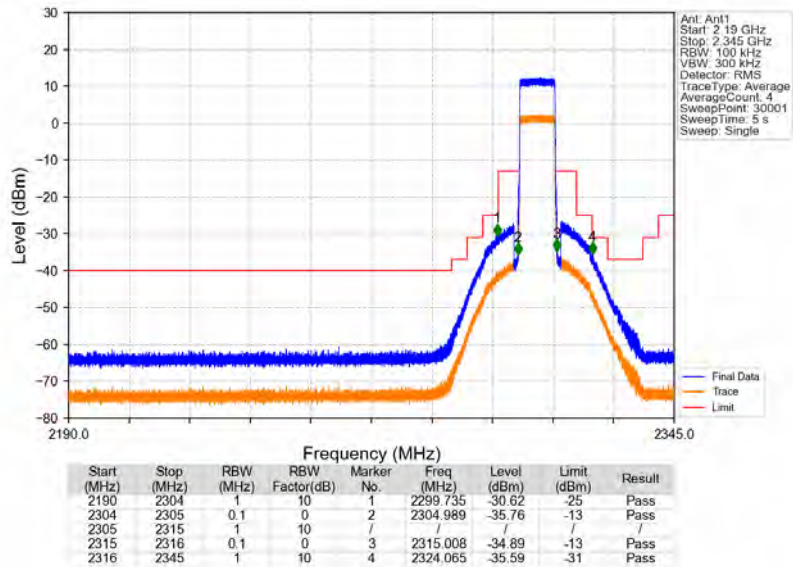
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Band30_10MHz_16QAM_LCH_2310MHz_RB_50_0_NTNV



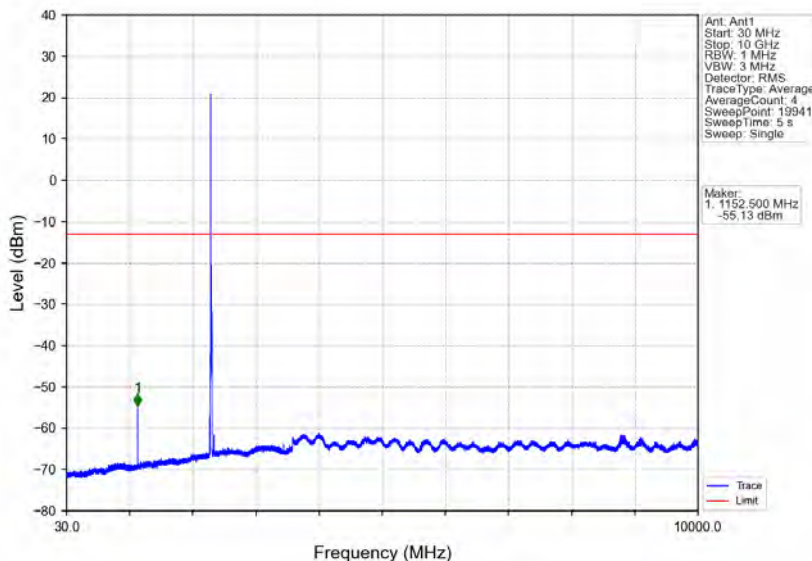
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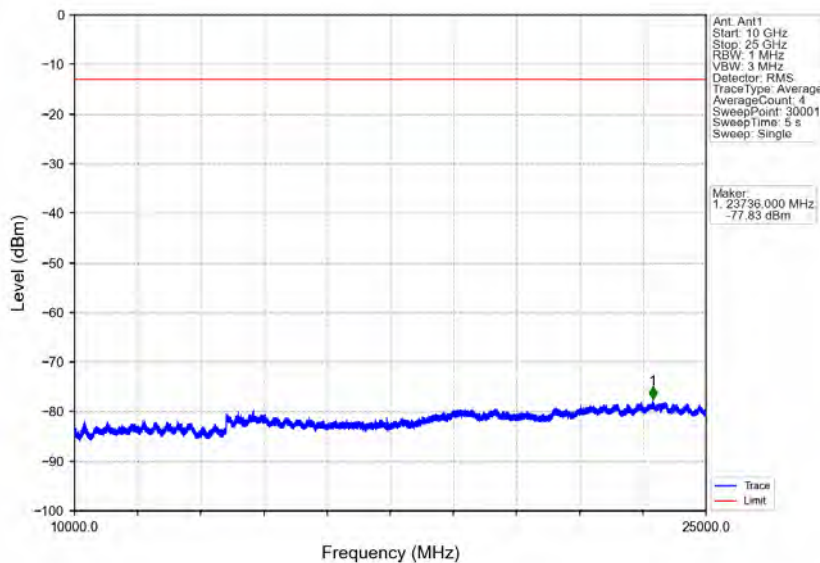
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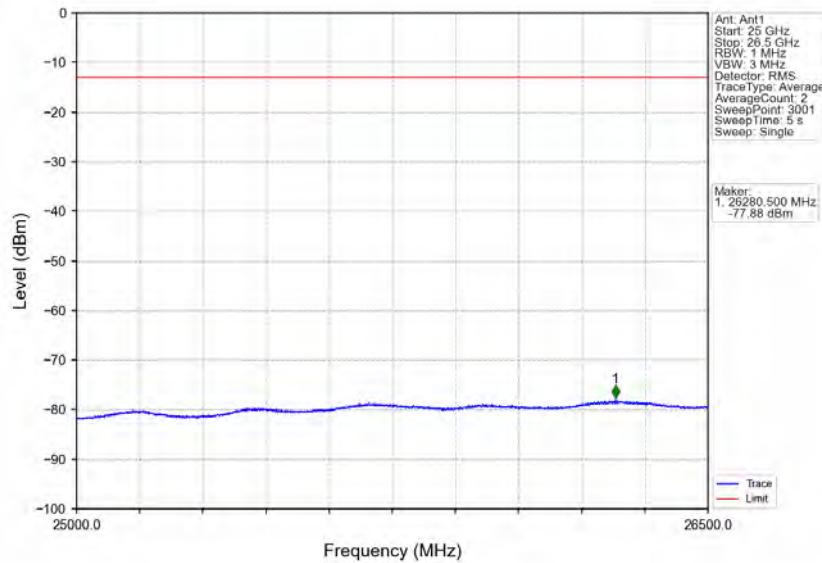
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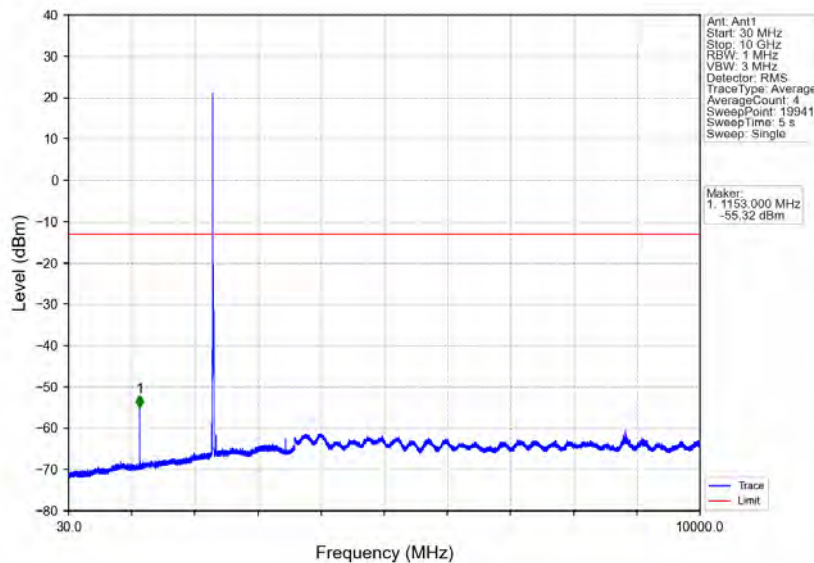
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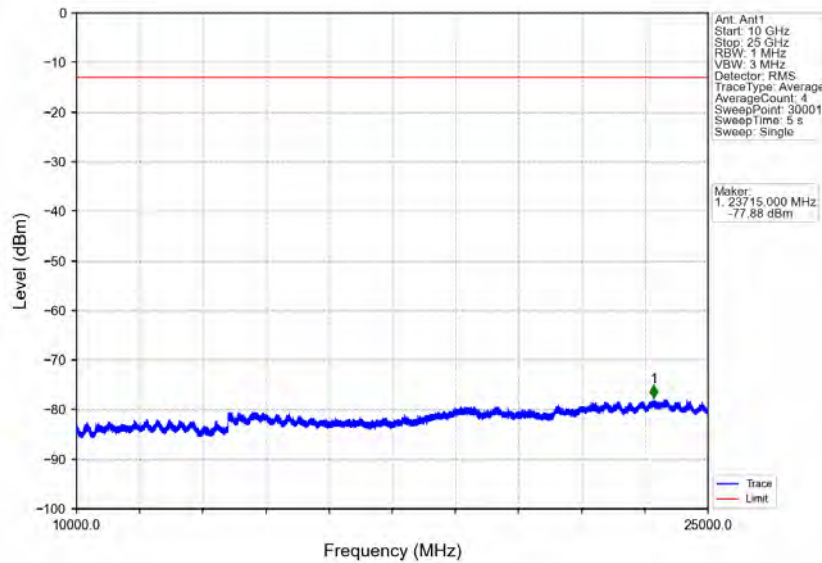
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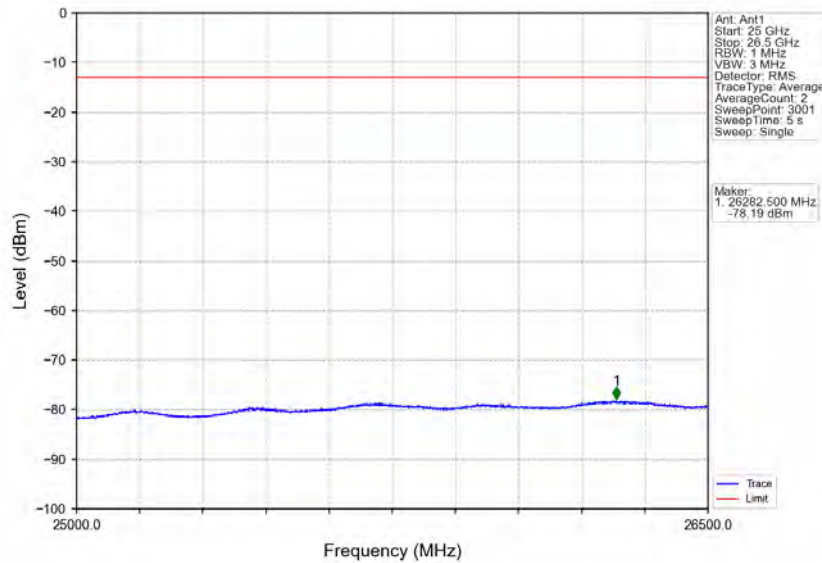
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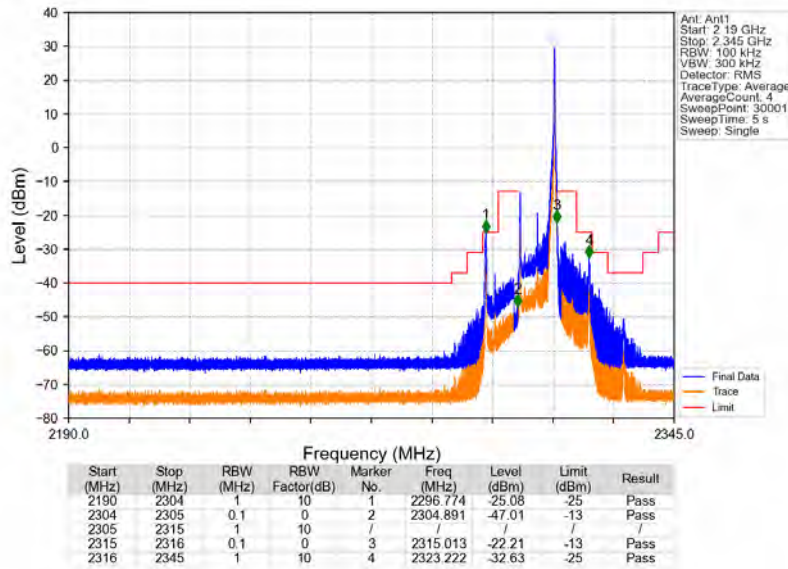
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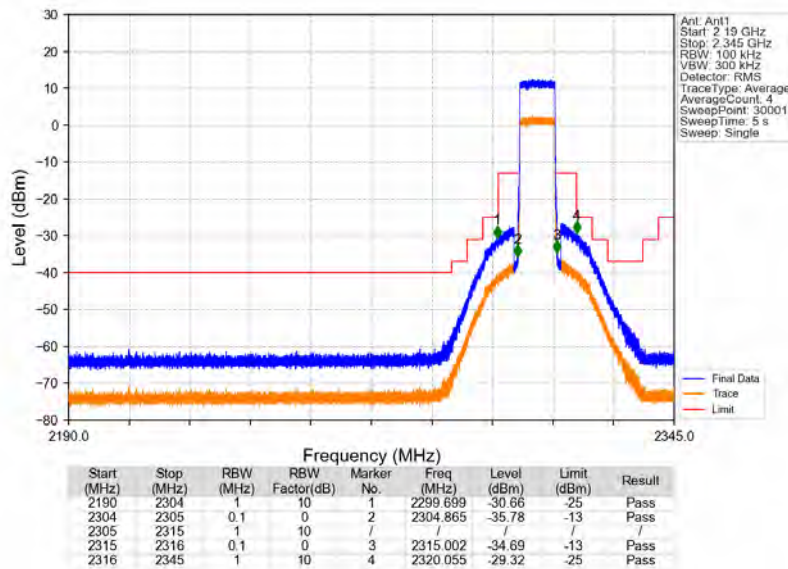
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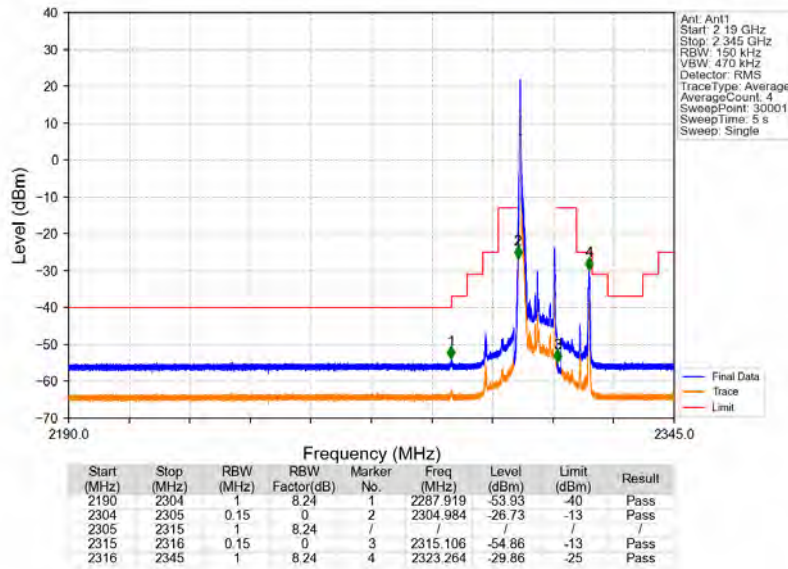


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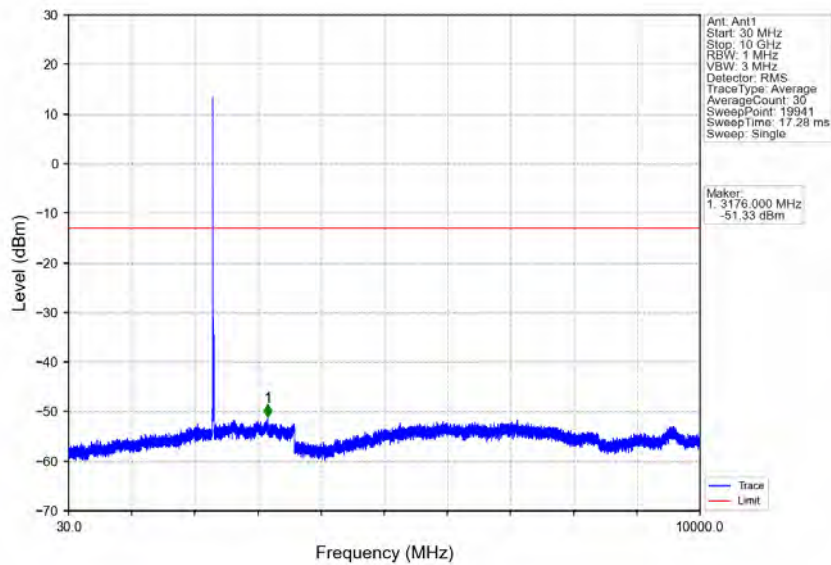
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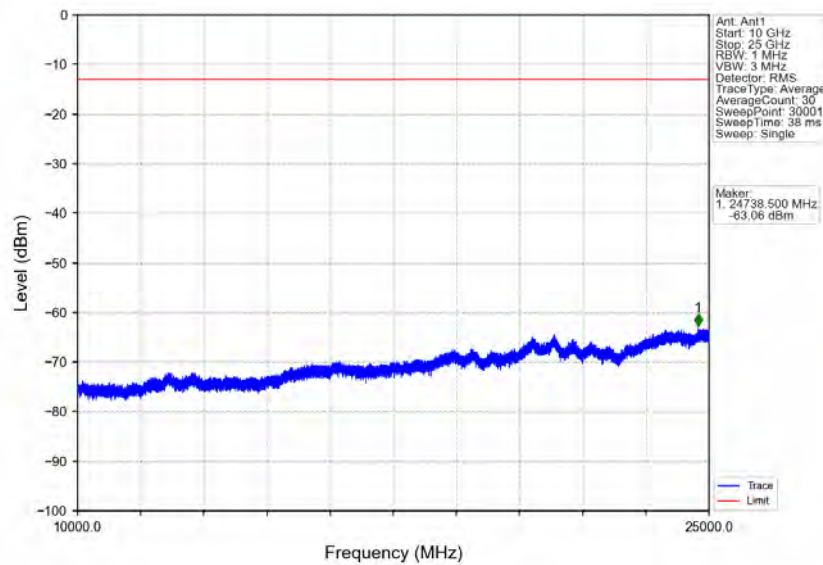
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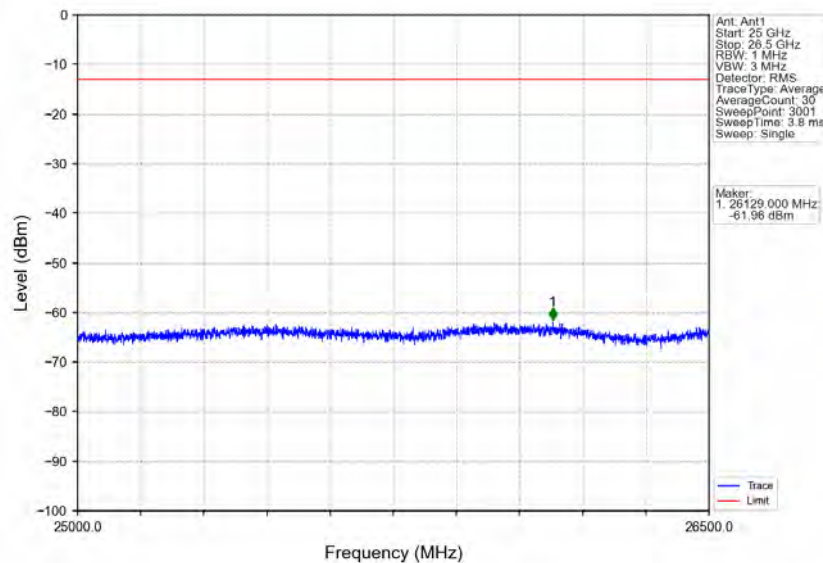
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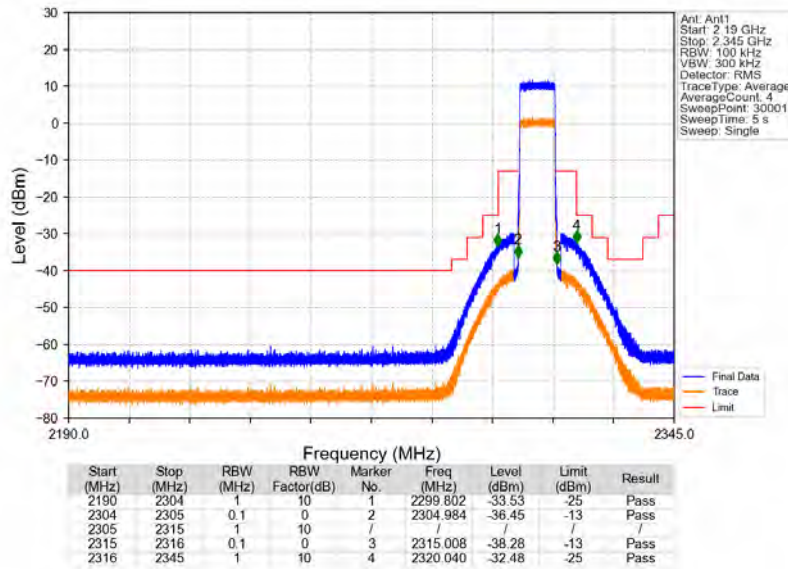
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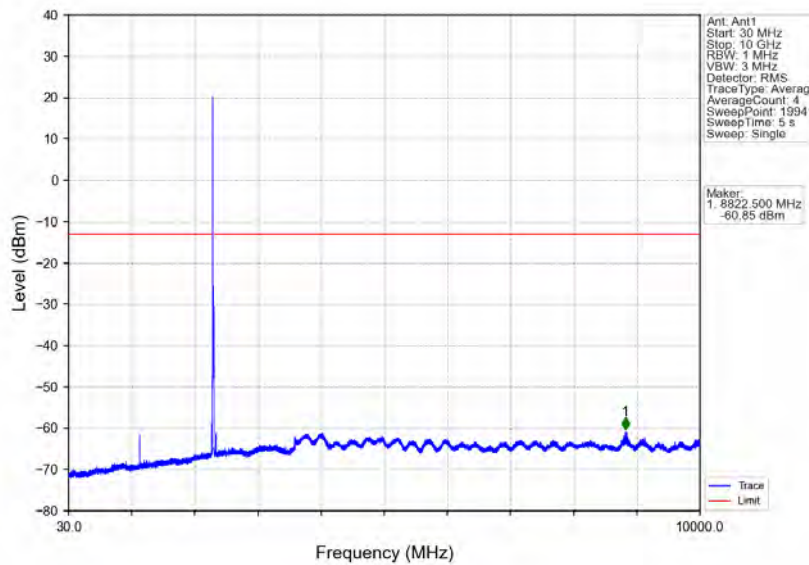
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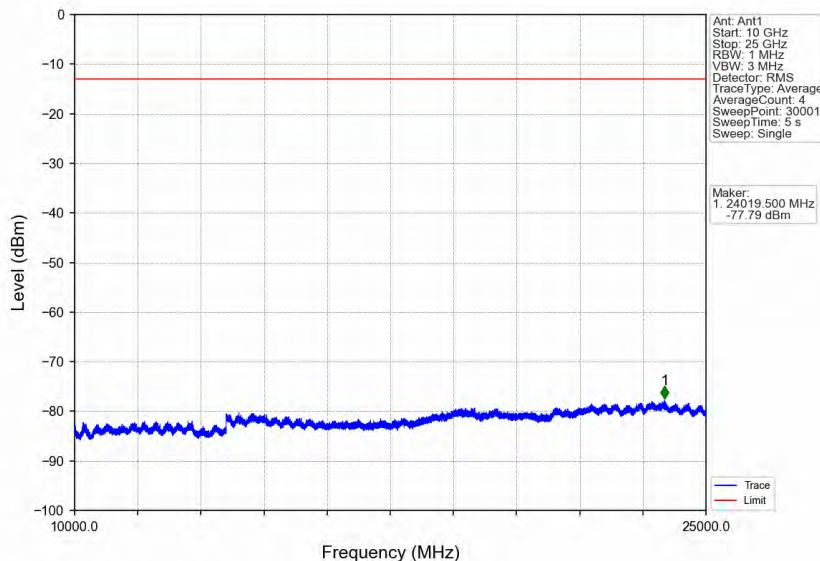
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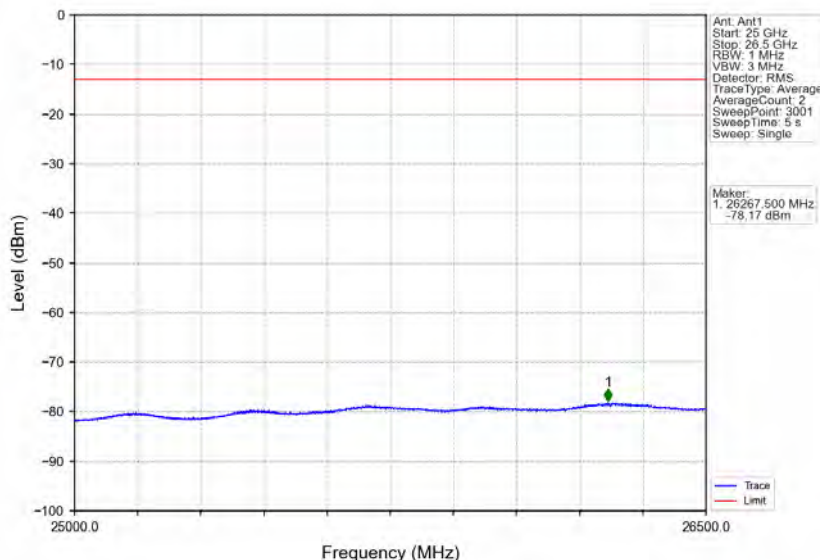


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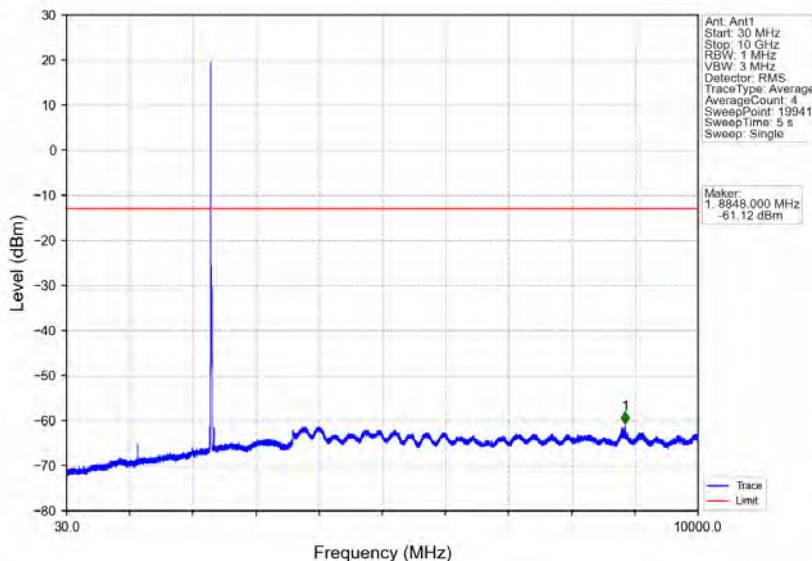
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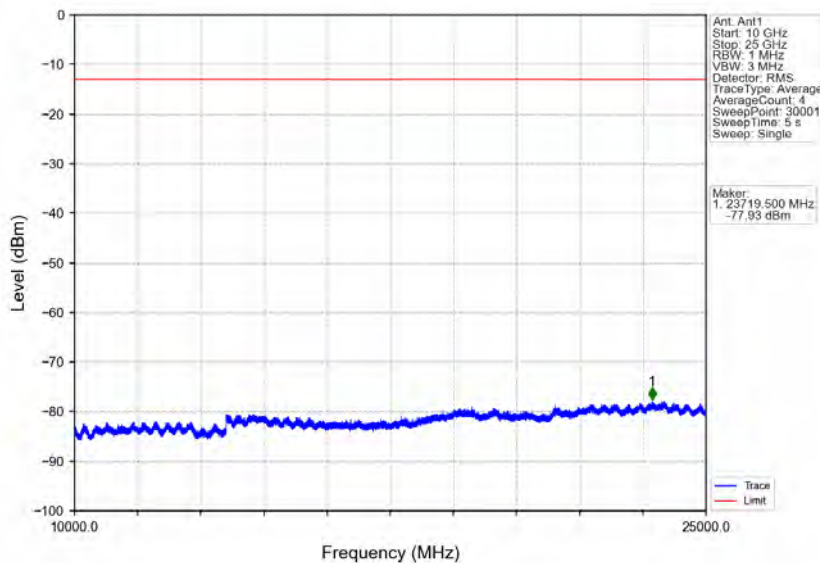
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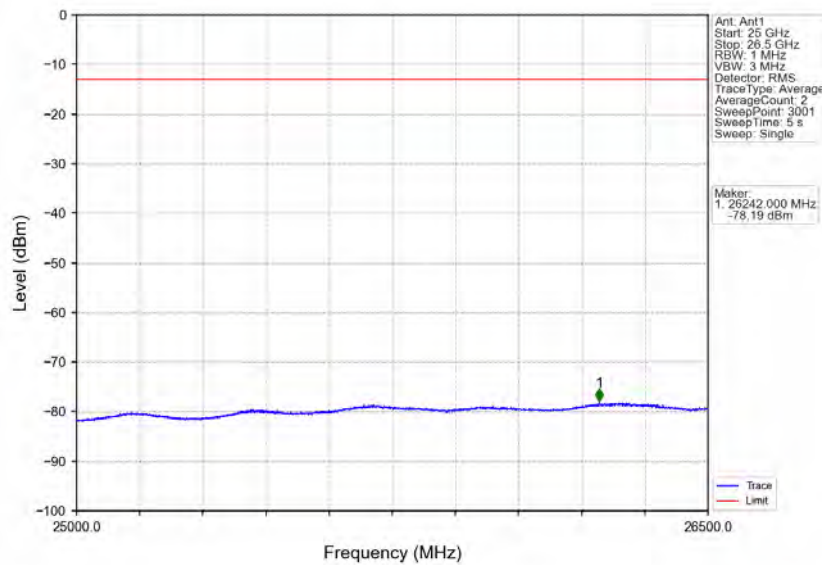
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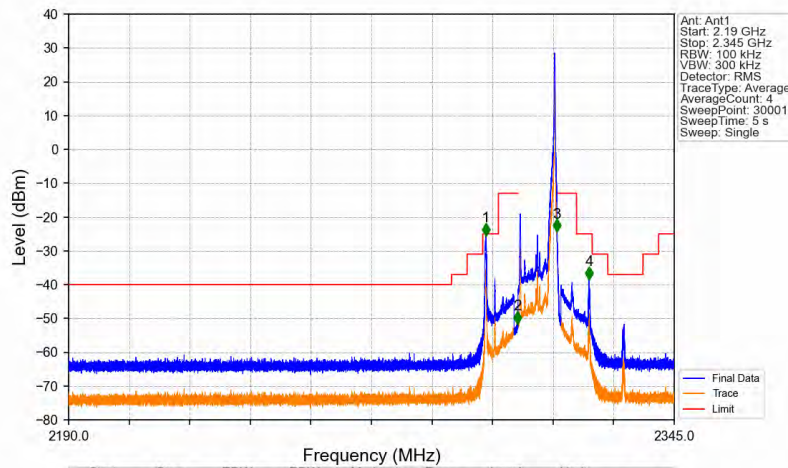
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Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
2190	2304	1	10	1	2296.738	-25.51	-25	Pass
2304	2305	0.1	0	2	2304.907	-51.56	-13	Pass
2305	2315	1	10	/	/	/	/	/
2315	2316	0.1	0	3	2315.008	-24.41	-13	Pass
2316	2345	1	10	4	2323.228	-38.43	-25	Pass



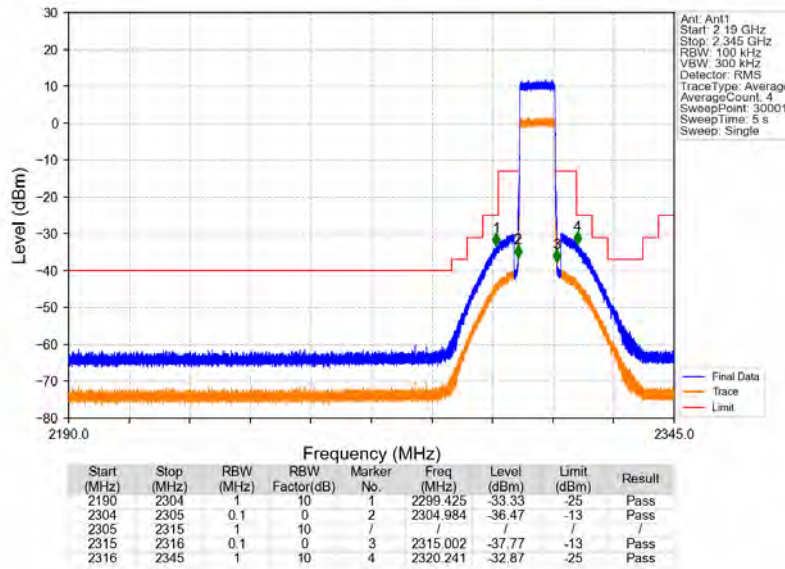
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