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Appendix B.10

LTE Band 12



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1. Frequency Stability

1.1 B12_1.4MHz

1.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	699.7	6	0	20	3.8	-23.473	-0.0335	-2.5 to 2.5	Pass	
					4.0	-5.560	-0.0079	-2.5 to 2.5	Pass	
					4.2	0.083	0.0001	-2.5 to 2.5	Pass	
				-30	4.0	2.041	0.0029	-2.5 to 2.5	Pass	
					-20	4.0	3.994	0.0057	-2.5 to 2.5	Pass
						4.0	-1.599	-0.0023	-2.5 to 2.5	Pass
				-10	4.0	0.068	0.0001	-2.5 to 2.5	Pass	
					4.0	-0.529	-0.0008	-2.5 to 2.5	Pass	
				0	4.0	-0.239	-0.0003	-2.5 to 2.5	Pass	
					4.0	-3.336	-0.0048	-2.5 to 2.5	Pass	
	4.0	2.976	0.0043	-2.5 to 2.5	Pass					
	707.5	6	0	20	3.8	-0.372	-0.0005	-2.5 to 2.5	Pass	
					4.0	11.574	0.0164	-2.5 to 2.5	Pass	
					4.2	7.320	0.0103	-2.5 to 2.5	Pass	
				-30	4.0	-2.576	-0.0036	-2.5 to 2.5	Pass	
					-20	4.0	2.162	0.0031	-2.5 to 2.5	Pass
						4.0	3.144	0.0044	-2.5 to 2.5	Pass
				-10	4.0	3.105	0.0044	-2.5 to 2.5	Pass	
					4.0	-1.367	-0.0019	-2.5 to 2.5	Pass	
				0	4.0	-0.401	-0.0006	-2.5 to 2.5	Pass	
					4.0	1.108	0.0016	-2.5 to 2.5	Pass	
	4.0	-0.978	-0.0014	-2.5 to 2.5	Pass					
	715.3	6	0	20	3.8	-16.852	-0.0236	-2.5 to 2.5	Pass	
					4.0	-22.684	-0.0317	-2.5 to 2.5	Pass	
					4.2	-13.050	-0.0182	-2.5 to 2.5	Pass	
				-30	4.0	-5.846	-0.0082	-2.5 to 2.5	Pass	
					-20	4.0	-7.090	-0.0099	-2.5 to 2.5	Pass
						4.0	-2.662	-0.0037	-2.5 to 2.5	Pass
				-10	4.0	1.578	0.0022	-2.5 to 2.5	Pass	
					4.0	2.685	0.0038	-2.5 to 2.5	Pass	
0				4.0	3.456	0.0048	-2.5 to 2.5	Pass		
				4.0	-3.238	-0.0045	-2.5 to 2.5	Pass		
4.0	-2.258	-0.0032	-2.5 to 2.5	Pass						
16QAM	699.7	6	0	20	3.8	1.005	0.0014	-2.5 to 2.5	Pass	
					4.0	-2.897	-0.0041	-2.5 to 2.5	Pass	
					4.2	2.032	0.0029	-2.5 to 2.5	Pass	
				-30	4.0	2.057	0.0029	-2.5 to 2.5	Pass	
					4.0	2.737	0.0039	-2.5 to 2.5	Pass	
				-20	4.0	0.726	0.0010	-2.5 to 2.5	Pass	
					4.0	1.602	0.0023	-2.5 to 2.5	Pass	



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64QAM	707.5	6	0	10	4.0	0.092	0.0001	-2.5 to 2.5	Pass			
				30	4.0	-3.897	-0.0056	-2.5 to 2.5	Pass			
				40	4.0	0.384	0.0005	-2.5 to 2.5	Pass			
				50	4.0	2.202	0.0031	-2.5 to 2.5	Pass			
				20	3.8	1.865	0.0026	-2.5 to 2.5	Pass			
					4.0	3.121	0.0044	-2.5 to 2.5	Pass			
					4.2	-2.446	-0.0035	-2.5 to 2.5	Pass			
				-30	4.0	0.880	0.0012	-2.5 to 2.5	Pass			
				-20	4.0	1.990	0.0028	-2.5 to 2.5	Pass			
				-10	4.0	-2.870	-0.0041	-2.5 to 2.5	Pass			
				0	4.0	1.111	0.0016	-2.5 to 2.5	Pass			
				10	4.0	2.451	0.0035	-2.5 to 2.5	Pass			
				30	4.0	-4.163	-0.0059	-2.5 to 2.5	Pass			
				40	4.0	-4.547	-0.0064	-2.5 to 2.5	Pass			
	50	4.0	-0.812	-0.0011	-2.5 to 2.5	Pass						
	715.3	6	0	20	3.8	-0.679	-0.0009	-2.5 to 2.5	Pass			
					4.0	-0.143	-0.0002	-2.5 to 2.5	Pass			
					4.2	1.158	0.0016	-2.5 to 2.5	Pass			
				-30	4.0	-1.010	-0.0014	-2.5 to 2.5	Pass			
				-20	4.0	0.108	0.0002	-2.5 to 2.5	Pass			
				-10	4.0	-1.991	-0.0028	-2.5 to 2.5	Pass			
				0	4.0	-3.685	-0.0052	-2.5 to 2.5	Pass			
				10	4.0	-4.232	-0.0059	-2.5 to 2.5	Pass			
				30	4.0	2.955	0.0041	-2.5 to 2.5	Pass			
				40	4.0	0.547	0.0008	-2.5 to 2.5	Pass			
				50	4.0	-2.369	-0.0033	-2.5 to 2.5	Pass			
				699.7	6	0	20	3.8	0.196	0.0003	-2.5 to 2.5	Pass
								4.0	-3.476	-0.0050	-2.5 to 2.5	Pass
4.2								-1.066	-0.0015	-2.5 to 2.5	Pass	
-30	4.0	0.405	0.0006				-2.5 to 2.5	Pass				
-20	4.0	-0.181	-0.0003				-2.5 to 2.5	Pass				
-10	4.0	3.445	0.0049				-2.5 to 2.5	Pass				
0	4.0	0.699	0.0010				-2.5 to 2.5	Pass				
10	4.0	-3.959	-0.0057				-2.5 to 2.5	Pass				
30	4.0	-1.293	-0.0018				-2.5 to 2.5	Pass				
40	4.0	1.987	0.0028				-2.5 to 2.5	Pass				
50	4.0	-1.103	-0.0016				-2.5 to 2.5	Pass				
707.5	6	0	20				3.8	2.826	0.0040	-2.5 to 2.5	Pass	
							4.0	-4.155	-0.0059	-2.5 to 2.5	Pass	
							4.2	-0.255	-0.0004	-2.5 to 2.5	Pass	
			-30	4.0	2.861	0.0040	-2.5 to 2.5	Pass				
			-20	4.0	-1.033	-0.0015	-2.5 to 2.5	Pass				
			-10	4.0	-0.438	-0.0006	-2.5 to 2.5	Pass				
			0	4.0	4.017	0.0057	-2.5 to 2.5	Pass				
			10	4.0	-3.689	-0.0052	-2.5 to 2.5	Pass				
			30	4.0	-3.463	-0.0049	-2.5 to 2.5	Pass				
			40	4.0	1.522	0.0022	-2.5 to 2.5	Pass				
			50	4.0	1.835	0.0026	-2.5 to 2.5	Pass				
			715.3	6	0	20	3.8	1.843	0.0026	-2.5 to 2.5	Pass	
							4.0	2.354	0.0033	-2.5 to 2.5	Pass	



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				4.2	1.569	0.0022	-2.5 to 2.5	Pass
				-30	4.0	2.207	0.0031	-2.5 to 2.5
				-20	4.0	-2.919	-0.0041	-2.5 to 2.5
				-10	4.0	-4.533	-0.0063	-2.5 to 2.5
				0	4.0	2.332	0.0033	-2.5 to 2.5
				10	4.0	-3.939	-0.0055	-2.5 to 2.5
				30	4.0	3.679	0.0051	-2.5 to 2.5
				40	4.0	3.115	0.0044	-2.5 to 2.5
				50	4.0	2.635	0.0037	-2.5 to 2.5



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1.2 B12_3MHz

1.2.1 Test Result

Band: 12 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	700.5	15	0	20	3.8	-1.227	-0.0018	-2.5 to 2.5	Pass
					4.0	4.516	0.0064	-2.5 to 2.5	Pass
					4.2	0.225	0.0003	-2.5 to 2.5	Pass
				-30	4.0	-0.382	-0.0005	-2.5 to 2.5	Pass
				-20	4.0	3.727	0.0053	-2.5 to 2.5	Pass
				-10	4.0	3.333	0.0048	-2.5 to 2.5	Pass
				0	4.0	0.024	0.0000	-2.5 to 2.5	Pass
				10	4.0	-1.850	-0.0026	-2.5 to 2.5	Pass
				30	4.0	4.231	0.0060	-2.5 to 2.5	Pass
				40	4.0	0.165	0.0002	-2.5 to 2.5	Pass
	50	4.0	5.248	0.0075	-2.5 to 2.5	Pass			
	707.5	15	0	20	3.8	-1.377	-0.0019	-2.5 to 2.5	Pass
					4.0	3.873	0.0055	-2.5 to 2.5	Pass
					4.2	2.208	0.0031	-2.5 to 2.5	Pass
				-30	4.0	0.273	0.0004	-2.5 to 2.5	Pass
				-20	4.0	-1.794	-0.0025	-2.5 to 2.5	Pass
				-10	4.0	3.335	0.0047	-2.5 to 2.5	Pass
				0	4.0	-0.104	-0.0001	-2.5 to 2.5	Pass
				10	4.0	-2.099	-0.0030	-2.5 to 2.5	Pass
				30	4.0	3.654	0.0052	-2.5 to 2.5	Pass
				40	4.0	0.897	0.0013	-2.5 to 2.5	Pass
	50	4.0	0.150	0.0002	-2.5 to 2.5	Pass			
	714.5	15	0	20	3.8	1.861	0.0026	-2.5 to 2.5	Pass
					4.0	1.616	0.0023	-2.5 to 2.5	Pass
					4.2	-0.431	-0.0006	-2.5 to 2.5	Pass
				-30	4.0	4.577	0.0064	-2.5 to 2.5	Pass
				-20	4.0	4.193	0.0059	-2.5 to 2.5	Pass
				-10	4.0	2.464	0.0034	-2.5 to 2.5	Pass
				0	4.0	-0.095	-0.0001	-2.5 to 2.5	Pass
				10	4.0	2.271	0.0032	-2.5 to 2.5	Pass
30				4.0	1.549	0.0022	-2.5 to 2.5	Pass	
40				4.0	-0.371	-0.0005	-2.5 to 2.5	Pass	
50	4.0	-3.669	-0.0051	-2.5 to 2.5	Pass				
16QAM	700.5	15	0	20	3.8	4.080	0.0058	-2.5 to 2.5	Pass
					4.0	1.415	0.0020	-2.5 to 2.5	Pass
					4.2	0.122	0.0002	-2.5 to 2.5	Pass
				-30	4.0	-0.408	-0.0006	-2.5 to 2.5	Pass
				-20	4.0	-1.266	-0.0018	-2.5 to 2.5	Pass
				-10	4.0	-2.088	-0.0030	-2.5 to 2.5	Pass
				0	4.0	-1.243	-0.0018	-2.5 to 2.5	Pass
				10	4.0	0.533	0.0008	-2.5 to 2.5	Pass
				30	4.0	0.848	0.0012	-2.5 to 2.5	Pass



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64QAM	707.5	15	0	40	4.0	0.552	0.0008	-2.5 to 2.5	Pass			
				50	4.0	-2.314	-0.0033	-2.5 to 2.5	Pass			
				20	3.8	-0.203	-0.0003	-2.5 to 2.5	Pass			
					4.0	-3.781	-0.0053	-2.5 to 2.5	Pass			
					4.2	2.028	0.0029	-2.5 to 2.5	Pass			
				-30	4.0	2.167	0.0031	-2.5 to 2.5	Pass			
				-20	4.0	0.032	0.0000	-2.5 to 2.5	Pass			
				-10	4.0	0.312	0.0004	-2.5 to 2.5	Pass			
				0	4.0	0.721	0.0010	-2.5 to 2.5	Pass			
				10	4.0	1.389	0.0020	-2.5 to 2.5	Pass			
				30	4.0	1.647	0.0023	-2.5 to 2.5	Pass			
				40	4.0	2.005	0.0028	-2.5 to 2.5	Pass			
				50	4.0	0.276	0.0004	-2.5 to 2.5	Pass			
				714.5	15	0	20	3.8	3.698	0.0052	-2.5 to 2.5	Pass
	4.0	2.547	0.0036					-2.5 to 2.5	Pass			
	4.2	-0.851	-0.0012					-2.5 to 2.5	Pass			
	-30	4.0	3.762				0.0053	-2.5 to 2.5	Pass			
	-20	4.0	-1.627				-0.0023	-2.5 to 2.5	Pass			
	-10	4.0	2.134				0.0030	-2.5 to 2.5	Pass			
	0	4.0	-1.314				-0.0018	-2.5 to 2.5	Pass			
	10	4.0	-0.500				-0.0007	-2.5 to 2.5	Pass			
	30	4.0	-0.018				0.0000	-2.5 to 2.5	Pass			
	40	4.0	-1.473				-0.0021	-2.5 to 2.5	Pass			
	50	4.0	-2.382				-0.0033	-2.5 to 2.5	Pass			
	700.5	15	0				20	3.8	-2.433	-0.0035	-2.5 to 2.5	Pass
								4.0	-2.706	-0.0039	-2.5 to 2.5	Pass
								4.2	-2.428	-0.0035	-2.5 to 2.5	Pass
				-30	4.0	-0.354	-0.0005	-2.5 to 2.5	Pass			
-20				4.0	2.795	0.0040	-2.5 to 2.5	Pass				
-10				4.0	3.943	0.0056	-2.5 to 2.5	Pass				
0				4.0	0.982	0.0014	-2.5 to 2.5	Pass				
10				4.0	3.923	0.0056	-2.5 to 2.5	Pass				
30				4.0	-3.447	-0.0049	-2.5 to 2.5	Pass				
40				4.0	-1.712	-0.0024	-2.5 to 2.5	Pass				
50				4.0	-1.225	-0.0017	-2.5 to 2.5	Pass				
707.5				15	0	20	3.8	-2.164	-0.0031	-2.5 to 2.5	Pass	
							4.0	5.225	0.0074	-2.5 to 2.5	Pass	
							4.2	5.021	0.0071	-2.5 to 2.5	Pass	
	-30	4.0	-1.096			-0.0015	-2.5 to 2.5	Pass				
	-20	4.0	-2.747			-0.0039	-2.5 to 2.5	Pass				
	-10	4.0	-3.142			-0.0044	-2.5 to 2.5	Pass				
	0	4.0	-2.611			-0.0037	-2.5 to 2.5	Pass				
	10	4.0	1.106			0.0016	-2.5 to 2.5	Pass				
	30	4.0	1.896			0.0027	-2.5 to 2.5	Pass				
	40	4.0	-4.179			-0.0059	-2.5 to 2.5	Pass				
	50	4.0	-2.616			-0.0037	-2.5 to 2.5	Pass				
	714.5	15	0			20	3.8	-2.136	-0.0030	-2.5 to 2.5	Pass	
							4.0	1.268	0.0018	-2.5 to 2.5	Pass	
							4.2	-3.035	-0.0042	-2.5 to 2.5	Pass	
-30				4.0	-1.620	-0.0023	-2.5 to 2.5	Pass				



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				-20	4.0	0.747	0.0010	-2.5 to 2.5	Pass
				-10	4.0	1.567	0.0022	-2.5 to 2.5	Pass
				0	4.0	3.528	0.0049	-2.5 to 2.5	Pass
				10	4.0	-2.591	-0.0036	-2.5 to 2.5	Pass
				30	4.0	0.679	0.0010	-2.5 to 2.5	Pass
				40	4.0	2.129	0.0030	-2.5 to 2.5	Pass
				50	4.0	2.634	0.0037	-2.5 to 2.5	Pass



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1.3 B12_5MHz

1.3.1 Test Result

Band: 12 / Bandwidth: 5MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	701.5	25	0	20	3.8	4.020	0.0057	-2.5 to 2.5	Pass	
					4.0	2.687	0.0038	-2.5 to 2.5	Pass	
					4.2	-2.109	-0.0030	-2.5 to 2.5	Pass	
				-30	4.0	5.316	0.0076	-2.5 to 2.5	Pass	
					-20	4.0	4.586	0.0065	-2.5 to 2.5	Pass
						4.0	1.892	0.0027	-2.5 to 2.5	Pass
				0	4.0	-2.194	-0.0031	-2.5 to 2.5	Pass	
					10	4.0	-3.495	-0.0050	-2.5 to 2.5	Pass
				30	4.0	3.790	0.0054	-2.5 to 2.5	Pass	
				40	4.0	2.266	0.0032	-2.5 to 2.5	Pass	
	50	4.0	2.427	0.0035	-2.5 to 2.5	Pass				
	707.5	25	0	20	3.8	-0.716	-0.0010	-2.5 to 2.5	Pass	
					4.0	0.158	0.0002	-2.5 to 2.5	Pass	
					4.2	2.512	0.0036	-2.5 to 2.5	Pass	
				-30	4.0	-2.166	-0.0031	-2.5 to 2.5	Pass	
					-20	4.0	0.651	0.0009	-2.5 to 2.5	Pass
						4.0	-1.807	-0.0026	-2.5 to 2.5	Pass
				0	4.0	-1.326	-0.0019	-2.5 to 2.5	Pass	
					10	4.0	-0.909	-0.0013	-2.5 to 2.5	Pass
				30	4.0	-1.538	-0.0022	-2.5 to 2.5	Pass	
				40	4.0	-1.508	-0.0021	-2.5 to 2.5	Pass	
	50	4.0	-0.710	-0.0010	-2.5 to 2.5	Pass				
	713.5	25	0	20	3.8	0.269	0.0004	-2.5 to 2.5	Pass	
					4.0	1.054	0.0015	-2.5 to 2.5	Pass	
					4.2	4.373	0.0061	-2.5 to 2.5	Pass	
				-30	4.0	4.464	0.0063	-2.5 to 2.5	Pass	
					-20	4.0	-2.243	-0.0031	-2.5 to 2.5	Pass
						4.0	-1.655	-0.0023	-2.5 to 2.5	Pass
				0	4.0	-1.168	-0.0016	-2.5 to 2.5	Pass	
					10	4.0	3.545	0.0050	-2.5 to 2.5	Pass
30				4.0	-2.612	-0.0037	-2.5 to 2.5	Pass		
40				4.0	4.687	0.0066	-2.5 to 2.5	Pass		
50	4.0	-1.836	-0.0026	-2.5 to 2.5	Pass					
16QAM	701.5	25	0	20	3.8	-1.233	-0.0018	-2.5 to 2.5	Pass	
					4.0	-4.368	-0.0062	-2.5 to 2.5	Pass	
					4.2	-2.303	-0.0033	-2.5 to 2.5	Pass	
				-30	4.0	1.472	0.0021	-2.5 to 2.5	Pass	
					-20	4.0	-2.248	-0.0032	-2.5 to 2.5	Pass
						4.0	-0.881	-0.0013	-2.5 to 2.5	Pass
				0	4.0	-0.517	-0.0007	-2.5 to 2.5	Pass	
					10	4.0	-2.281	-0.0033	-2.5 to 2.5	Pass
				30	4.0	-3.559	-0.0051	-2.5 to 2.5	Pass	



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64QAM	707.5	25	0	40	4.0	-1.635	-0.0023	-2.5 to 2.5	Pass		
				50	4.0	1.309	0.0019	-2.5 to 2.5	Pass		
				20	3.8	-1.527	-0.0022	-2.5 to 2.5	Pass		
					4.0	2.760	0.0039	-2.5 to 2.5	Pass		
					4.2	-4.752	-0.0067	-2.5 to 2.5	Pass		
				-30	4.0	-3.410	-0.0048	-2.5 to 2.5	Pass		
				-20	4.0	-1.350	-0.0019	-2.5 to 2.5	Pass		
				-10	4.0	-1.719	-0.0024	-2.5 to 2.5	Pass		
				0	4.0	1.492	0.0021	-2.5 to 2.5	Pass		
				10	4.0	-3.463	-0.0049	-2.5 to 2.5	Pass		
				30	4.0	-3.763	-0.0053	-2.5 to 2.5	Pass		
				40	4.0	0.309	0.0004	-2.5 to 2.5	Pass		
				50	4.0	1.005	0.0014	-2.5 to 2.5	Pass		
				713.5	25	0	20	3.8	5.376	0.0075	-2.5 to 2.5
	4.0	4.930	0.0069					-2.5 to 2.5	Pass		
	4.2	2.263	0.0032					-2.5 to 2.5	Pass		
	-30	4.0	1.026				0.0014	-2.5 to 2.5	Pass		
	-20	4.0	2.011				0.0028	-2.5 to 2.5	Pass		
	-10	4.0	3.988				0.0056	-2.5 to 2.5	Pass		
	0	4.0	0.076				0.0001	-2.5 to 2.5	Pass		
	10	4.0	0.306				0.0004	-2.5 to 2.5	Pass		
	30	4.0	4.106				0.0058	-2.5 to 2.5	Pass		
	40	4.0	-1.379				-0.0019	-2.5 to 2.5	Pass		
	50	4.0	-2.042				-0.0029	-2.5 to 2.5	Pass		
	701.5	25	0				20	3.8	1.545	0.0022	-2.5 to 2.5
				4.0	-3.923	-0.0056		-2.5 to 2.5	Pass		
4.2				-1.206	-0.0017	-2.5 to 2.5		Pass			
-30				4.0	1.629	0.0023	-2.5 to 2.5	Pass			
-20				4.0	3.212	0.0046	-2.5 to 2.5	Pass			
-10				4.0	2.793	0.0040	-2.5 to 2.5	Pass			
0				4.0	-1.341	-0.0019	-2.5 to 2.5	Pass			
10				4.0	2.846	0.0041	-2.5 to 2.5	Pass			
30				4.0	-2.297	-0.0033	-2.5 to 2.5	Pass			
40				4.0	-1.334	-0.0019	-2.5 to 2.5	Pass			
50				4.0	-2.953	-0.0042	-2.5 to 2.5	Pass			
707.5				25	0	20	3.8	2.459	0.0035	-2.5 to 2.5	Pass
							4.0	-0.422	-0.0006	-2.5 to 2.5	Pass
							4.2	3.700	0.0052	-2.5 to 2.5	Pass
						-30	4.0	3.120	0.0044	-2.5 to 2.5	Pass
						-20	4.0	-2.536	-0.0036	-2.5 to 2.5	Pass
						-10	4.0	-0.696	-0.0010	-2.5 to 2.5	Pass
						0	4.0	-0.115	-0.0002	-2.5 to 2.5	Pass
	10	4.0	1.393			0.0020	-2.5 to 2.5	Pass			
	30	4.0	-3.565			-0.0050	-2.5 to 2.5	Pass			
713.5	25	0	20	3.8	1.946	0.0027	-2.5 to 2.5	Pass			
				4.0	1.050	0.0015	-2.5 to 2.5	Pass			
				4.2	3.944	0.0055	-2.5 to 2.5	Pass			
			-30	4.0	-1.805	-0.0025	-2.5 to 2.5	Pass			



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				-20	4.0	3.270	0.0046	-2.5 to 2.5	Pass
				-10	4.0	3.818	0.0054	-2.5 to 2.5	Pass
				0	4.0	-1.191	-0.0017	-2.5 to 2.5	Pass
				10	4.0	0.833	0.0012	-2.5 to 2.5	Pass
				30	4.0	0.728	0.0010	-2.5 to 2.5	Pass
				40	4.0	2.653	0.0037	-2.5 to 2.5	Pass
				50	4.0	1.207	0.0017	-2.5 to 2.5	Pass



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1.4 B12_10MHz

1.4.1 Test Result

Band: 12 / Bandwidth: 10MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	704	50	0	20	3.8	-2.503	-0.0036	-2.5 to 2.5	Pass	
					4.0	4.499	0.0064	-2.5 to 2.5	Pass	
					4.2	2.360	0.0034	-2.5 to 2.5	Pass	
				-30	4.0	0.311	0.0004	-2.5 to 2.5	Pass	
					-20	4.0	2.435	0.0035	-2.5 to 2.5	Pass
						4.0	1.925	0.0027	-2.5 to 2.5	Pass
				0	4.0	0.436	0.0006	-2.5 to 2.5	Pass	
					10	4.0	-2.965	-0.0042	-2.5 to 2.5	Pass
				30	4.0	4.832	0.0069	-2.5 to 2.5	Pass	
	40	4.0	2.088	0.0030	-2.5 to 2.5	Pass				
	50	4.0	-2.254	-0.0032	-2.5 to 2.5	Pass				
	707.5	50	0	20	3.8	2.649	0.0037	-2.5 to 2.5	Pass	
					4.0	-3.647	-0.0052	-2.5 to 2.5	Pass	
					4.2	-3.411	-0.0048	-2.5 to 2.5	Pass	
				-30	4.0	-1.766	-0.0025	-2.5 to 2.5	Pass	
					-20	4.0	2.009	0.0028	-2.5 to 2.5	Pass
						4.0	0.369	0.0005	-2.5 to 2.5	Pass
				0	4.0	-4.667	-0.0066	-2.5 to 2.5	Pass	
					10	4.0	-3.365	-0.0048	-2.5 to 2.5	Pass
				30	4.0	-2.585	-0.0037	-2.5 to 2.5	Pass	
	40	4.0	-1.720	-0.0024	-2.5 to 2.5	Pass				
	50	4.0	-1.497	-0.0021	-2.5 to 2.5	Pass				
	711	50	0	20	3.8	2.826	0.0040	-2.5 to 2.5	Pass	
					4.0	-3.468	-0.0049	-2.5 to 2.5	Pass	
					4.2	-2.366	-0.0033	-2.5 to 2.5	Pass	
				-30	4.0	3.508	0.0049	-2.5 to 2.5	Pass	
					-20	4.0	-0.314	-0.0004	-2.5 to 2.5	Pass
4.0						-1.176	-0.0017	-2.5 to 2.5	Pass	
0				4.0	-1.407	-0.0020	-2.5 to 2.5	Pass		
				10	4.0	-0.816	-0.0011	-2.5 to 2.5	Pass	
30				4.0	-0.864	-0.0012	-2.5 to 2.5	Pass		
40	4.0	-0.129	-0.0002	-2.5 to 2.5	Pass					
50	4.0	0.651	0.0009	-2.5 to 2.5	Pass					
16QAM	704	50	0	20	3.8	-5.350	-0.0076	-2.5 to 2.5	Pass	
					4.0	-2.306	-0.0033	-2.5 to 2.5	Pass	
					4.2	-1.518	-0.0022	-2.5 to 2.5	Pass	
				-30	4.0	-0.877	-0.0012	-2.5 to 2.5	Pass	
					-20	4.0	-0.131	-0.0002	-2.5 to 2.5	Pass
						4.0	1.092	0.0016	-2.5 to 2.5	Pass
				0	4.0	2.388	0.0034	-2.5 to 2.5	Pass	
					10	4.0	1.785	0.0025	-2.5 to 2.5	Pass
				30	4.0	-1.363	-0.0019	-2.5 to 2.5	Pass	



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64QAM	707.5	50	0	40	4.0	2.384	0.0034	-2.5 to 2.5	Pass			
				50	4.0	-3.553	-0.0050	-2.5 to 2.5	Pass			
				20	3.8	-1.550	-0.0022	-2.5 to 2.5	Pass			
					4.0	0.855	0.0012	-2.5 to 2.5	Pass			
					4.2	3.391	0.0048	-2.5 to 2.5	Pass			
				-30	4.0	-3.596	-0.0051	-2.5 to 2.5	Pass			
				-20	4.0	-3.760	-0.0053	-2.5 to 2.5	Pass			
				-10	4.0	0.828	0.0012	-2.5 to 2.5	Pass			
				0	4.0	-1.072	-0.0015	-2.5 to 2.5	Pass			
				10	4.0	0.043	0.0001	-2.5 to 2.5	Pass			
				30	4.0	0.666	0.0009	-2.5 to 2.5	Pass			
				40	4.0	4.051	0.0057	-2.5 to 2.5	Pass			
				50	4.0	2.520	0.0036	-2.5 to 2.5	Pass			
				711	50	0	20	3.8	0.688	0.0010	-2.5 to 2.5	Pass
	4.0	-1.809	-0.0025					-2.5 to 2.5	Pass			
	4.2	-4.013	-0.0056					-2.5 to 2.5	Pass			
	-30	4.0	-2.205				-0.0031	-2.5 to 2.5	Pass			
	-20	4.0	-0.213				-0.0003	-2.5 to 2.5	Pass			
	-10	4.0	3.729				0.0052	-2.5 to 2.5	Pass			
	0	4.0	-1.297				-0.0018	-2.5 to 2.5	Pass			
	10	4.0	1.054				0.0015	-2.5 to 2.5	Pass			
	30	4.0	-5.638				-0.0079	-2.5 to 2.5	Pass			
	40	4.0	-5.480				-0.0077	-2.5 to 2.5	Pass			
	50	4.0	-3.680				-0.0052	-2.5 to 2.5	Pass			
	704	50	0				20	3.8	-3.513	-0.0050	-2.5 to 2.5	Pass
								4.0	-1.938	-0.0028	-2.5 to 2.5	Pass
								4.2	2.473	0.0035	-2.5 to 2.5	Pass
				-30	4.0	2.263	0.0032	-2.5 to 2.5	Pass			
-20				4.0	3.020	0.0043	-2.5 to 2.5	Pass				
-10				4.0	3.312	0.0047	-2.5 to 2.5	Pass				
0				4.0	-0.759	-0.0011	-2.5 to 2.5	Pass				
10				4.0	1.502	0.0021	-2.5 to 2.5	Pass				
30				4.0	-2.448	-0.0035	-2.5 to 2.5	Pass				
40				4.0	-0.640	-0.0009	-2.5 to 2.5	Pass				
50				4.0	-0.655	-0.0009	-2.5 to 2.5	Pass				
707.5				50	0	20	3.8	3.339	0.0047	-2.5 to 2.5	Pass	
							4.0	1.610	0.0023	-2.5 to 2.5	Pass	
							4.2	2.502	0.0035	-2.5 to 2.5	Pass	
	-30	4.0	-4.175			-0.0059	-2.5 to 2.5	Pass				
	-20	4.0	-4.020			-0.0057	-2.5 to 2.5	Pass				
	-10	4.0	-0.537			-0.0008	-2.5 to 2.5	Pass				
	0	4.0	0.224			0.0003	-2.5 to 2.5	Pass				
	10	4.0	2.832			0.0040	-2.5 to 2.5	Pass				
	30	4.0	-2.119			-0.0030	-2.5 to 2.5	Pass				
	40	4.0	-1.338			-0.0019	-2.5 to 2.5	Pass				
	50	4.0	2.205			0.0031	-2.5 to 2.5	Pass				
	711	50	0			20	3.8	1.028	0.0014	-2.5 to 2.5	Pass	
							4.0	0.595	0.0008	-2.5 to 2.5	Pass	
							4.2	1.232	0.0017	-2.5 to 2.5	Pass	
-30				4.0	-6.429	-0.0090	-2.5 to 2.5	Pass				



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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

Report No.: SEWA2310000127RG01

Rev.: 01

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				-20	4.0	-4.117	-0.0058	-2.5 to 2.5	Pass
				-10	4.0	-2.256	-0.0032	-2.5 to 2.5	Pass
				0	4.0	-3.058	-0.0043	-2.5 to 2.5	Pass
				10	4.0	-0.682	-0.0010	-2.5 to 2.5	Pass
				30	4.0	2.420	0.0034	-2.5 to 2.5	Pass
				40	4.0	-1.020	-0.0014	-2.5 to 2.5	Pass
				50	4.0	-4.112	-0.0058	-2.5 to 2.5	Pass



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2. 99% & 26dB Bandwidth

2.1 Band12_OBW

2.1.1 Test Result

Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.099	/	Pass
		707.5	6	0	1.103	/	Pass
		715.3	6	0	1.105	/	Pass
	16QAM	699.7	6	0	1.104	/	Pass
		707.5	6	0	1.100	/	Pass
		715.3	6	0	1.101	/	Pass
	64QAM	699.7	6	0	1.105	/	Pass
		707.5	6	0	1.109	/	Pass
		715.3	6	0	1.101	/	Pass
3	QPSK	700.5	15	0	2.739	/	Pass
		707.5	15	0	2.743	/	Pass
		714.5	15	0	2.753	/	Pass
	16QAM	700.5	15	0	2.749	/	Pass
		707.5	15	0	2.733	/	Pass
		714.5	15	0	2.736	/	Pass
	64QAM	700.5	15	0	2.746	/	Pass
		707.5	15	0	2.726	/	Pass
		714.5	15	0	2.737	/	Pass
5	QPSK	701.5	25	0	4.558	/	Pass
		707.5	25	0	4.538	/	Pass
		713.5	25	0	4.540	/	Pass
	16QAM	701.5	25	0	4.524	/	Pass
		707.5	25	0	4.544	/	Pass
		713.5	25	0	4.538	/	Pass
	64QAM	701.5	25	0	4.541	/	Pass
		707.5	25	0	4.559	/	Pass
		713.5	25	0	4.541	/	Pass
10	QPSK	704	50	0	9.053	/	Pass
		707.5	50	0	9.009	/	Pass
		711	50	0	9.022	/	Pass
	16QAM	704	50	0	9.021	/	Pass
		707.5	50	0	9.040	/	Pass
		711	50	0	9.032	/	Pass
	64QAM	704	50	0	9.013	/	Pass
		707.5	50	0	9.032	/	Pass
		711	50	0	9.059	/	Pass

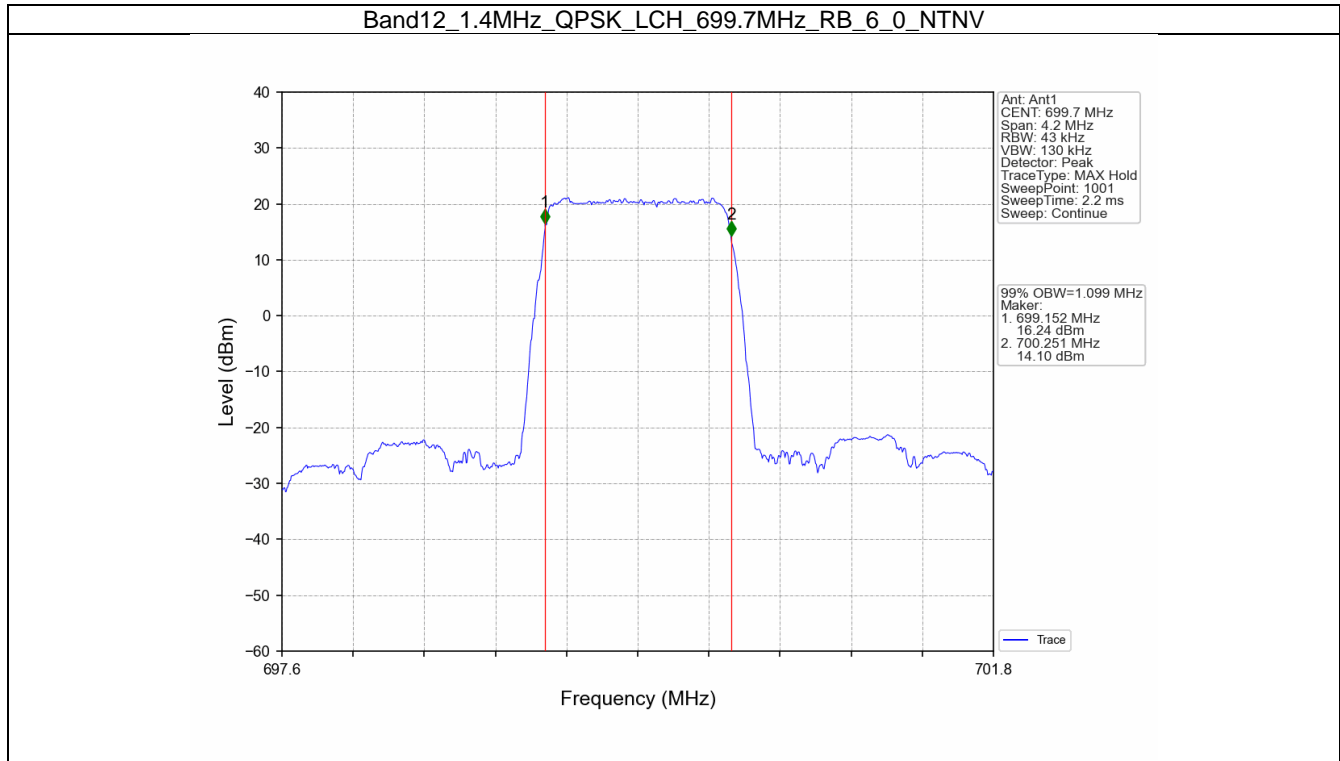


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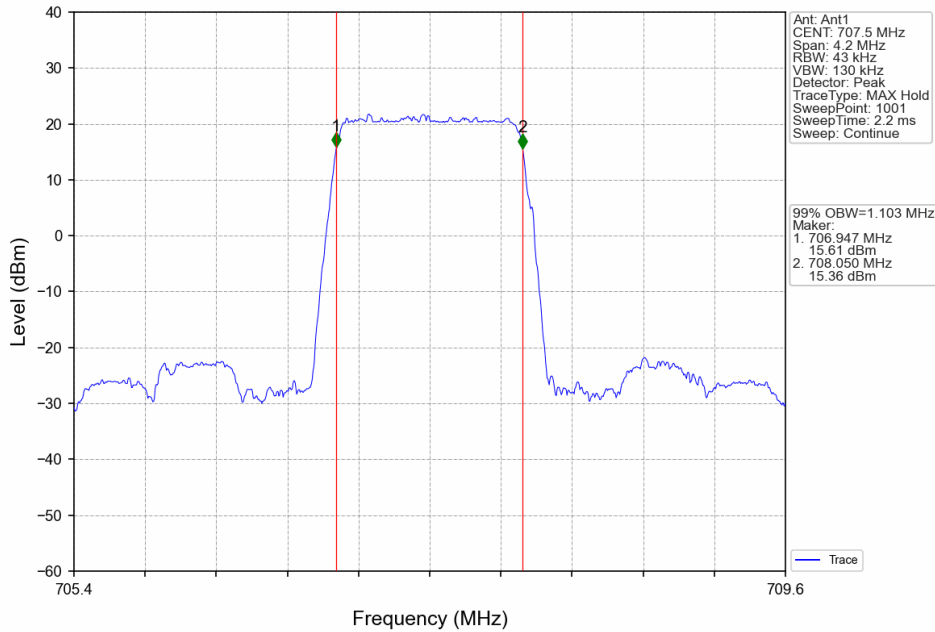
2.1.2 Test Graph



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Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV

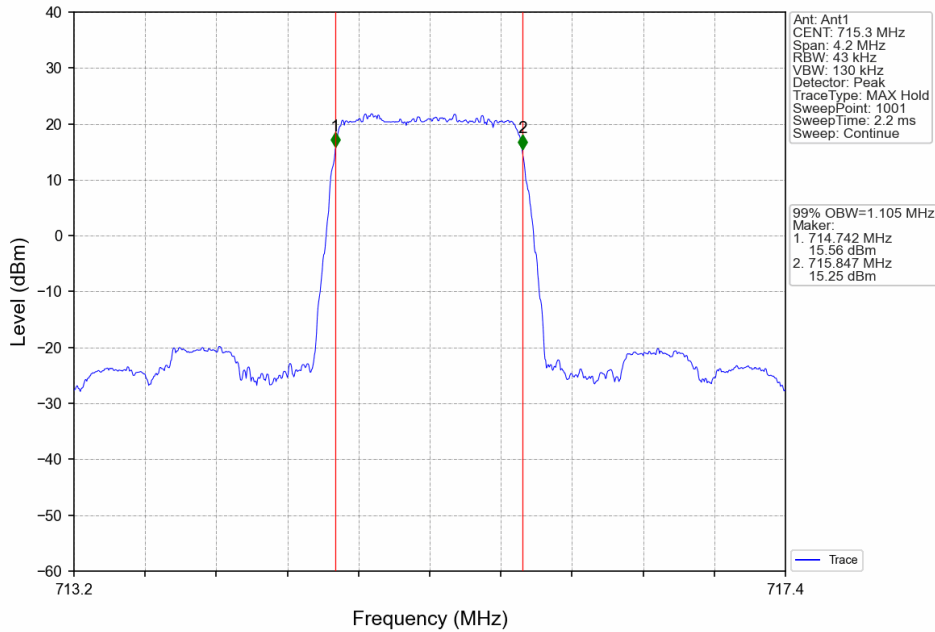


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Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV

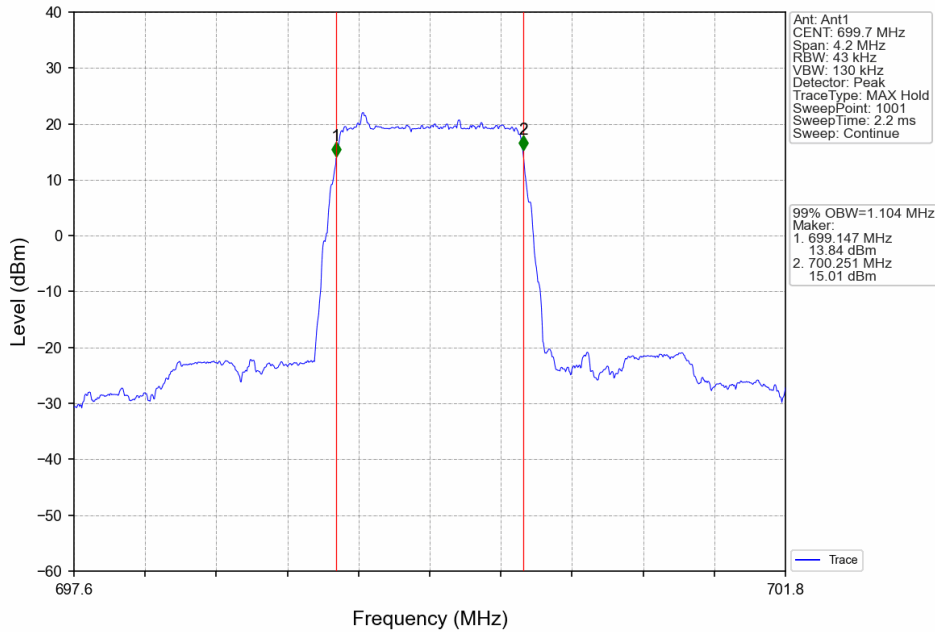


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Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV

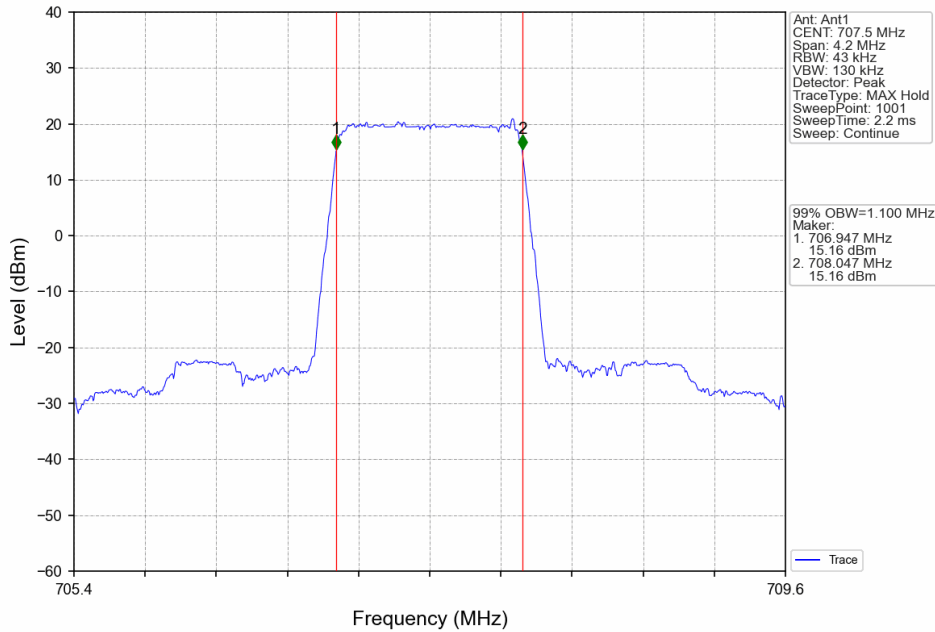


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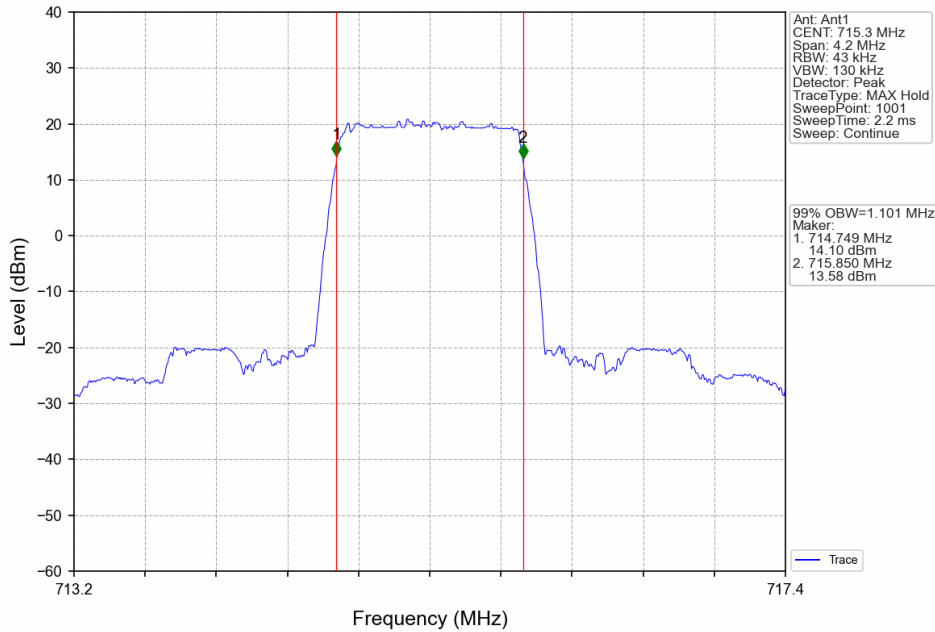


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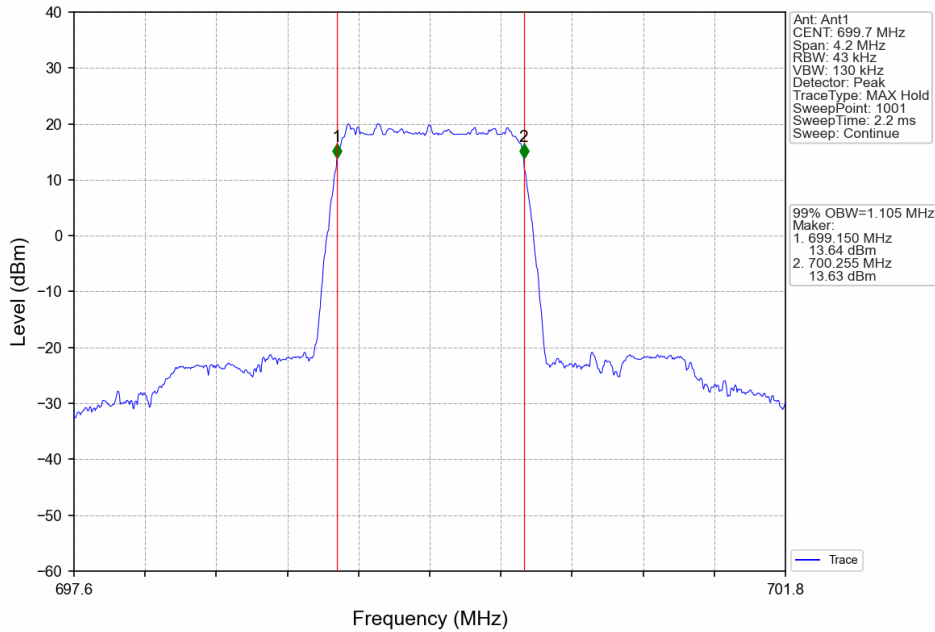


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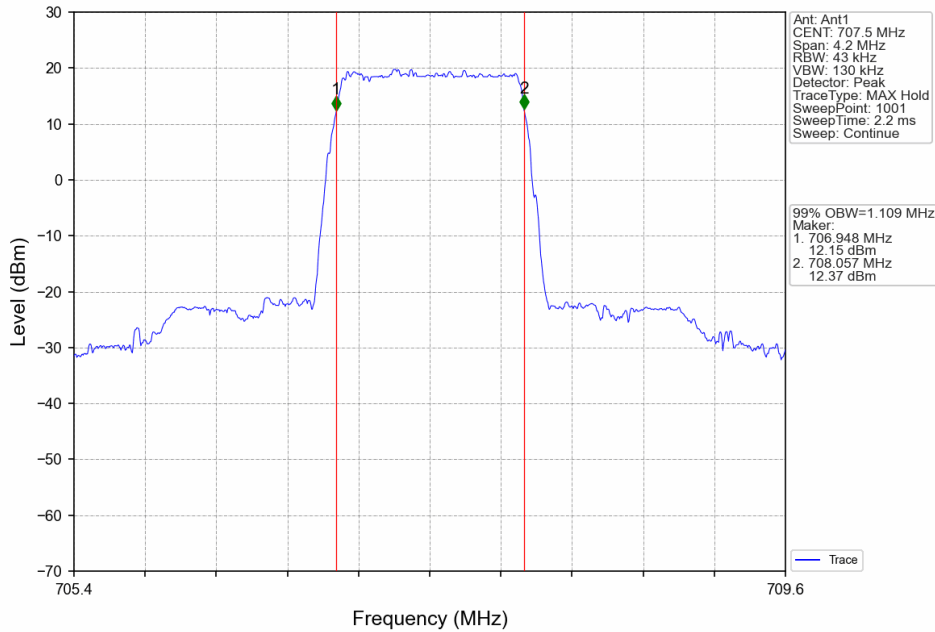


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Band12_1.4MHz_64QAM_MCH_707.5MHz_RB_6_0_NTNV

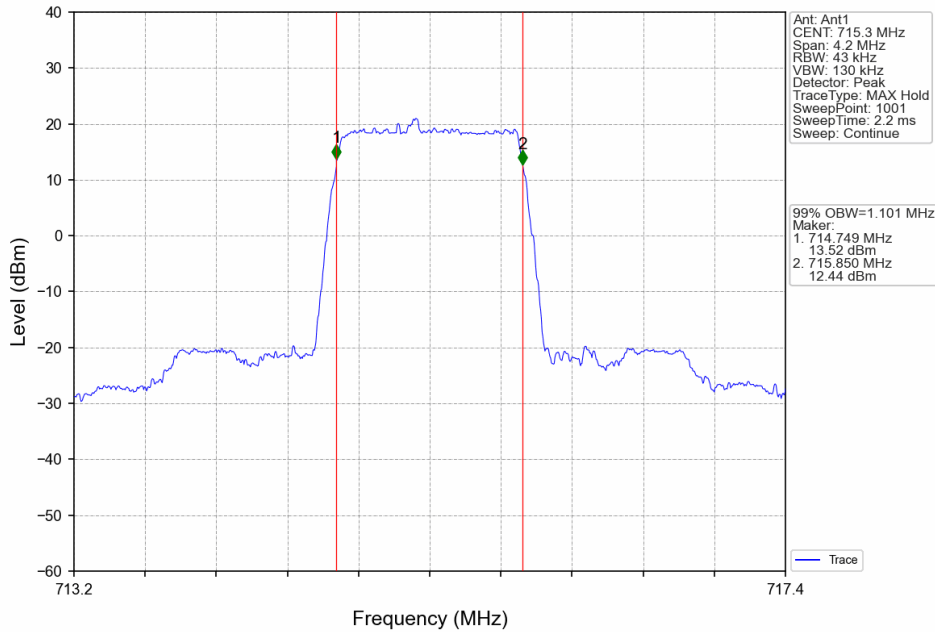


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Band12_1.4MHz_64QAM_HCH_715.3MHz_RB_6_0_NTNV



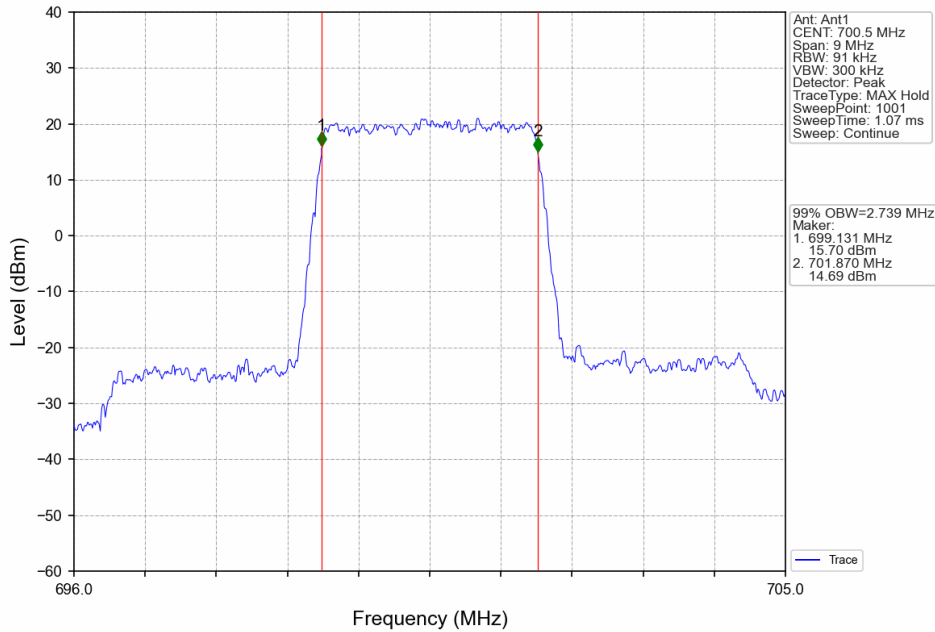
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Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



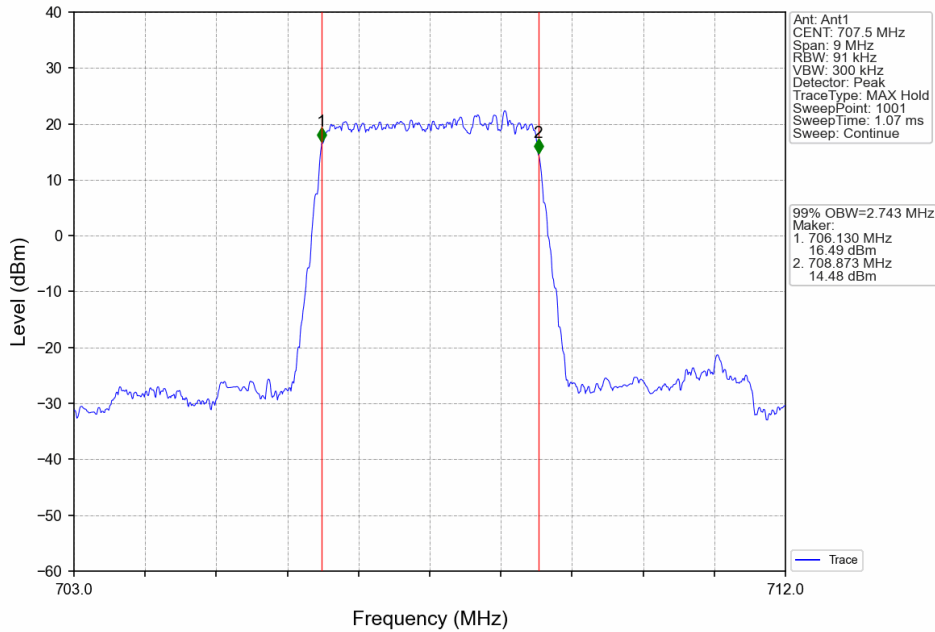
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Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



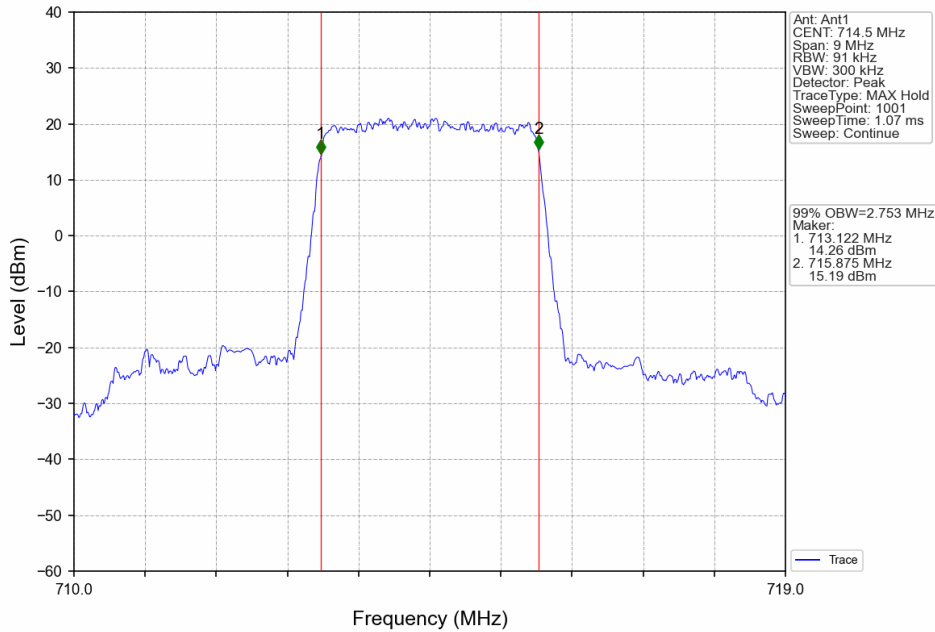
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Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV

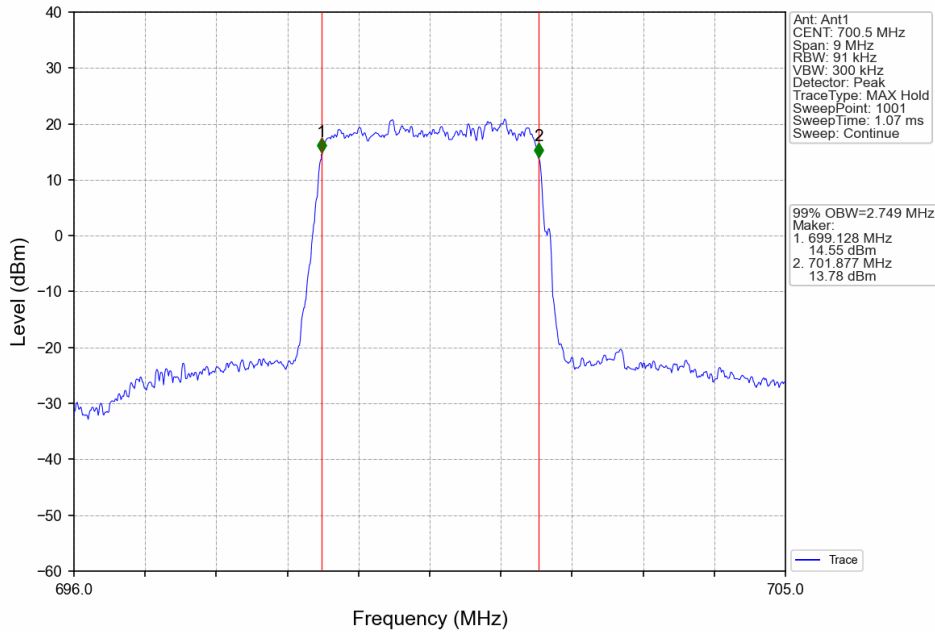


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Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



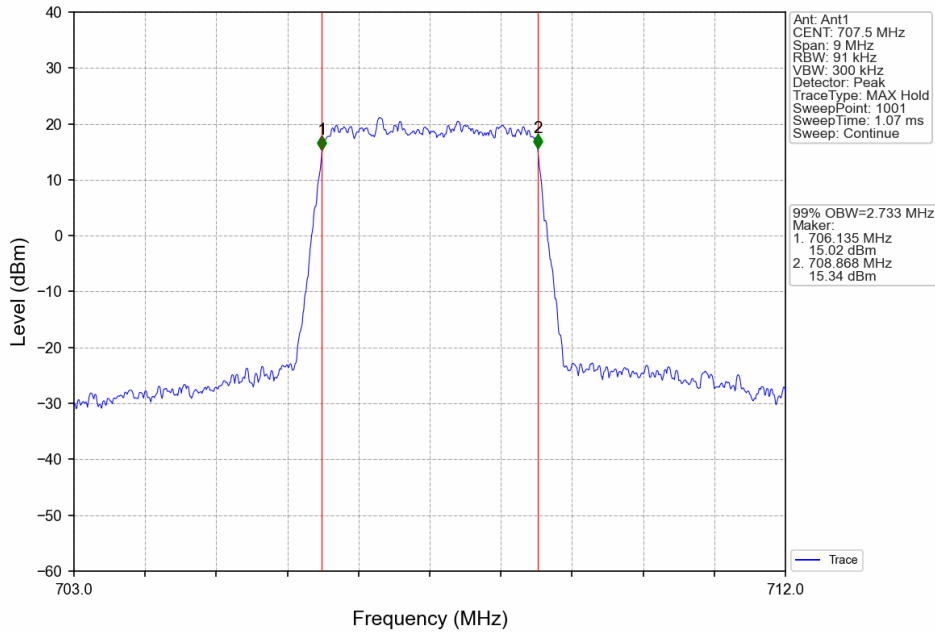
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Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



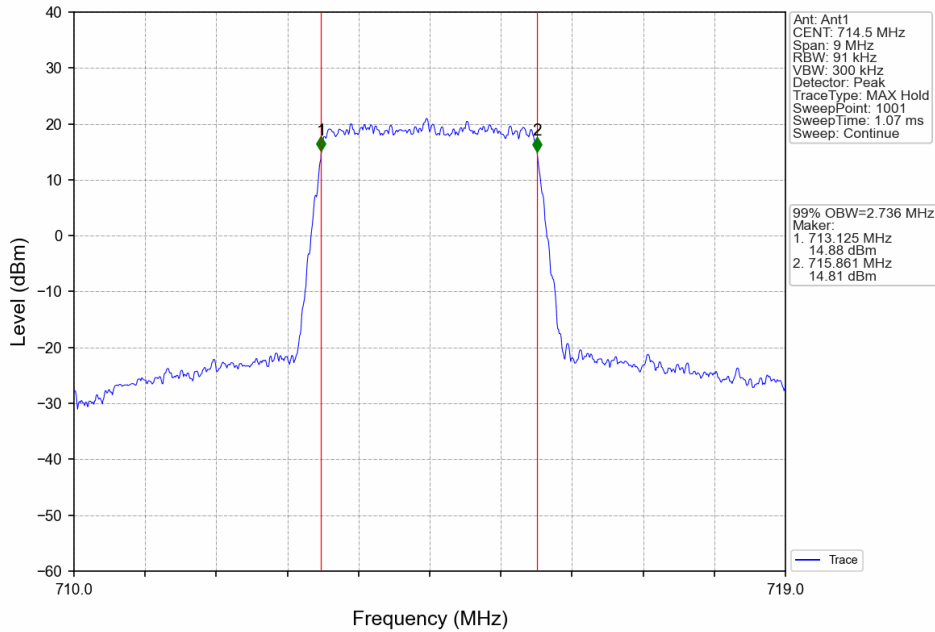
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Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



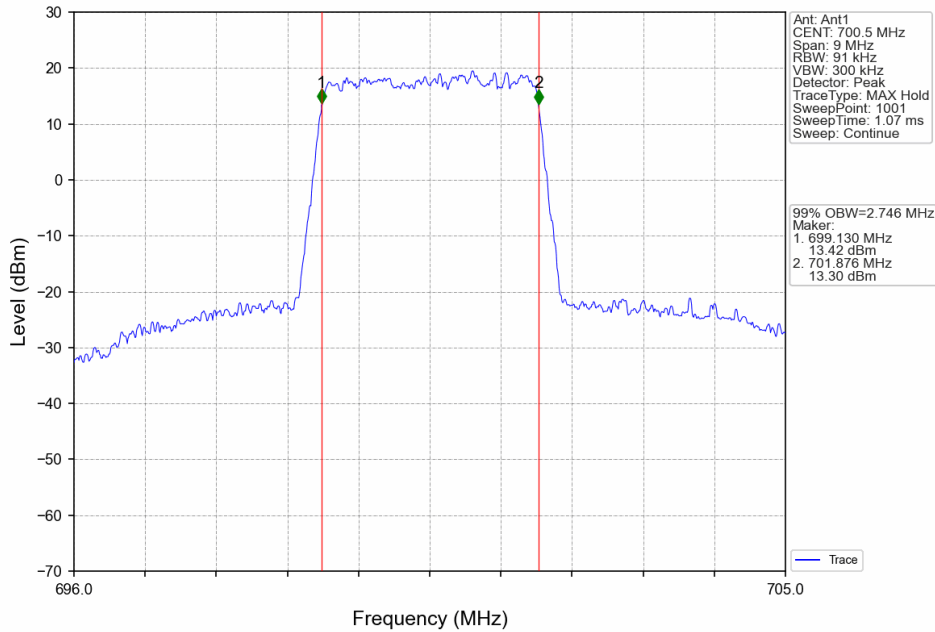
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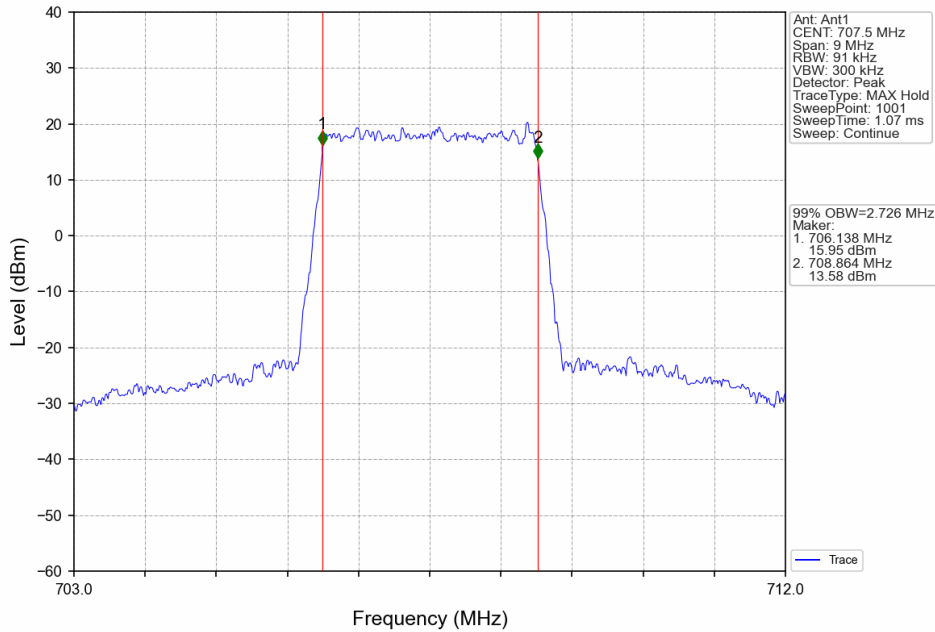
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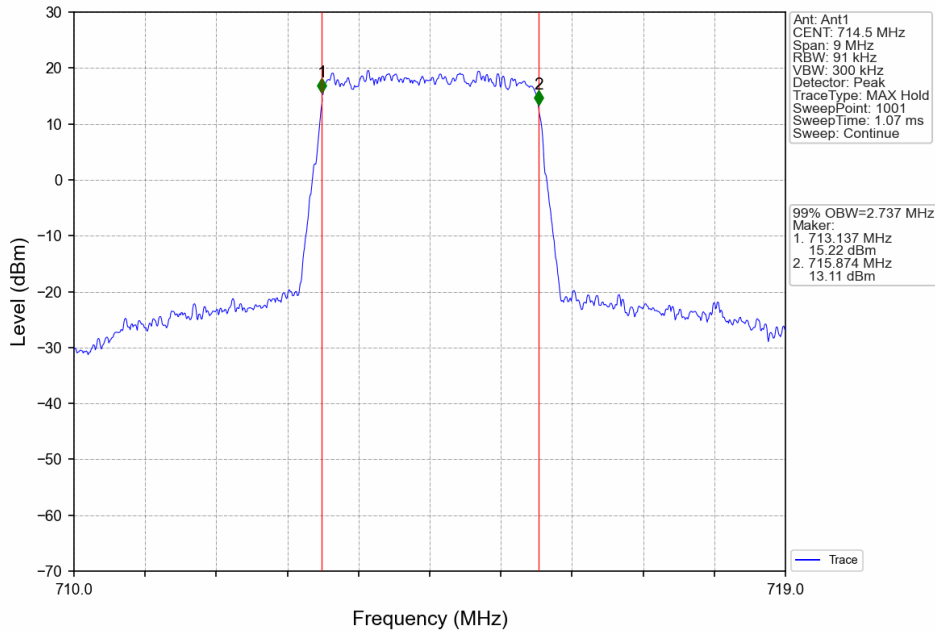


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Band12_3MHz_64QAM_HCH_714.5MHz_RB_15_0_NTNV

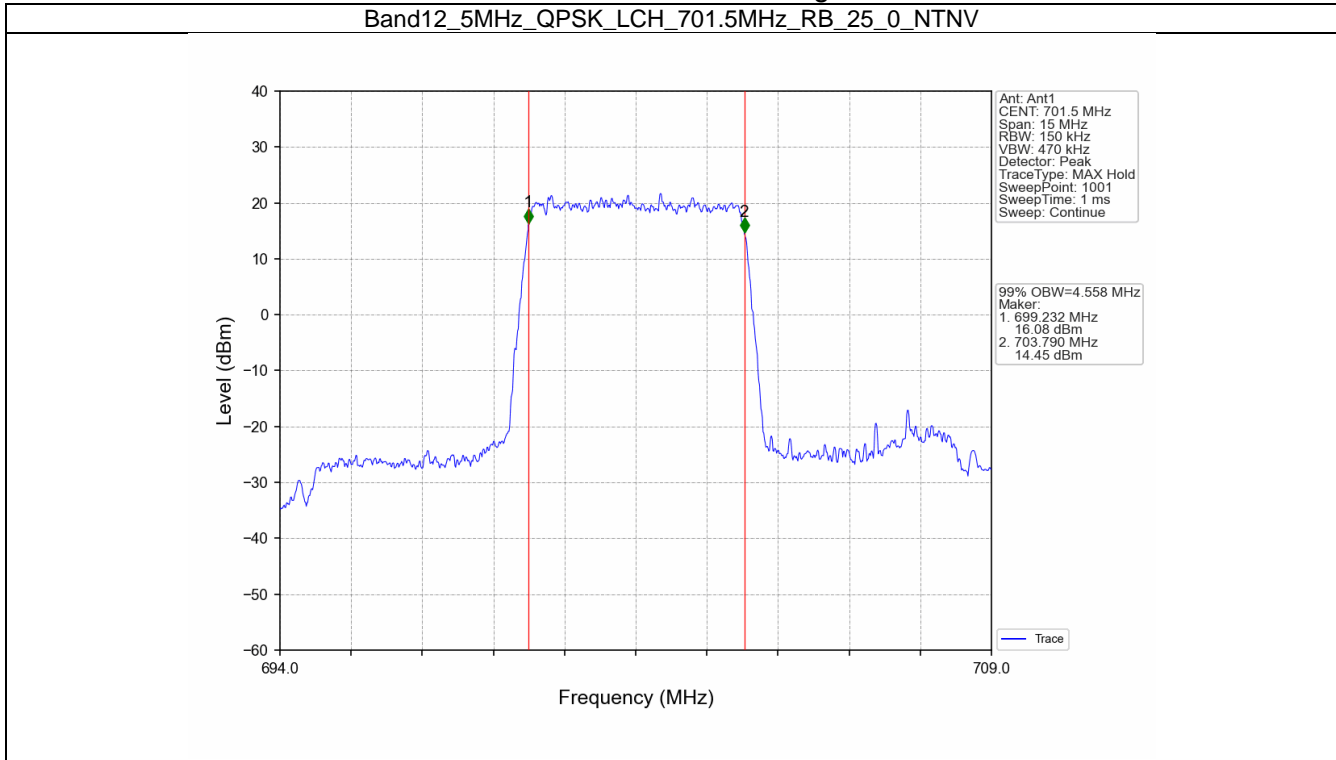


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Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV

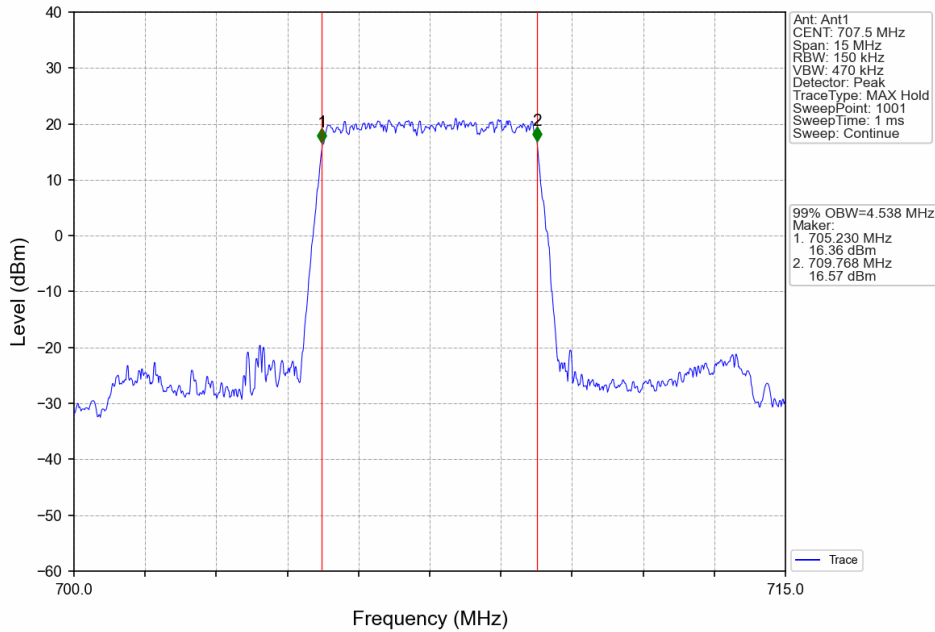


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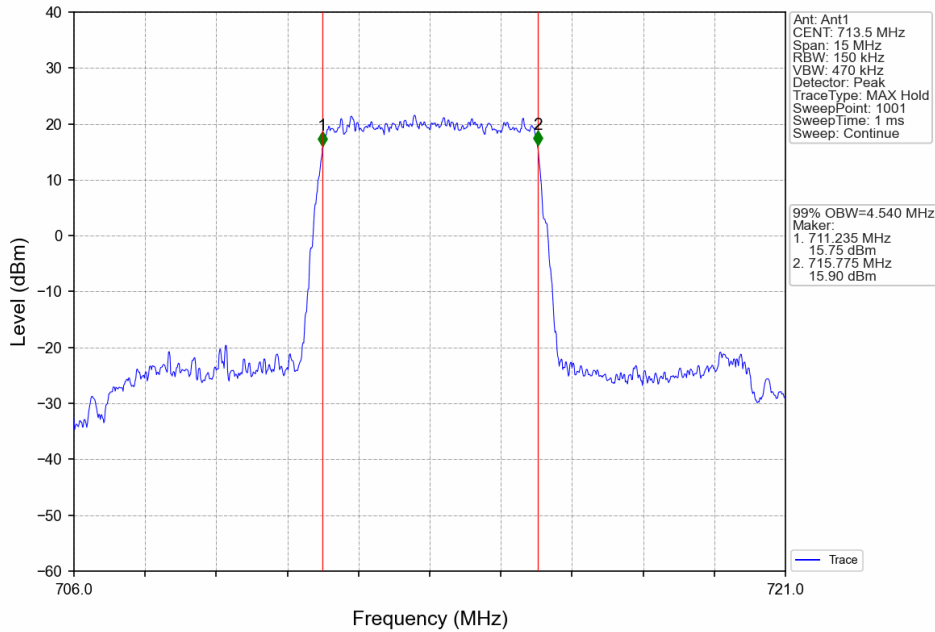


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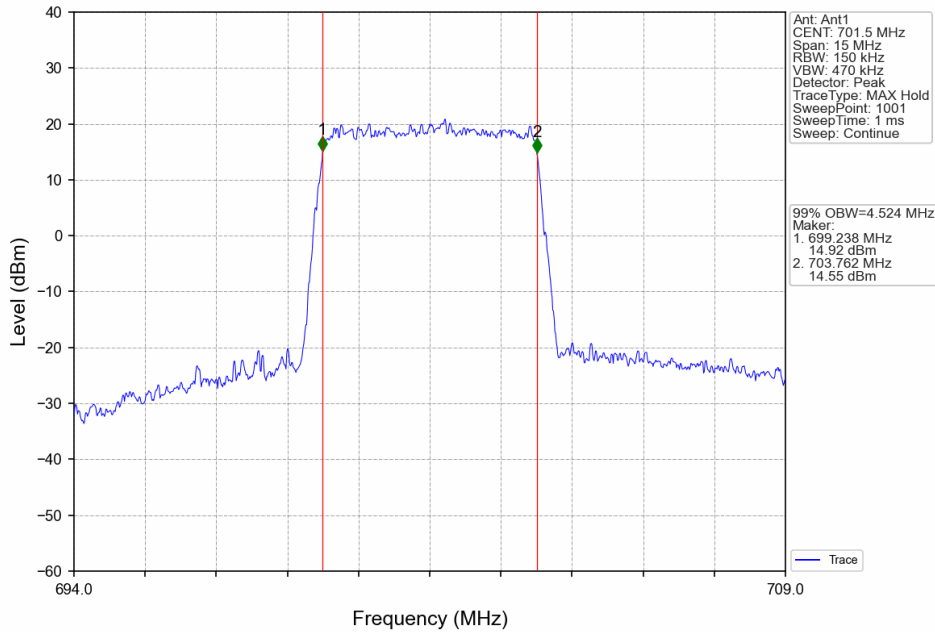
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Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



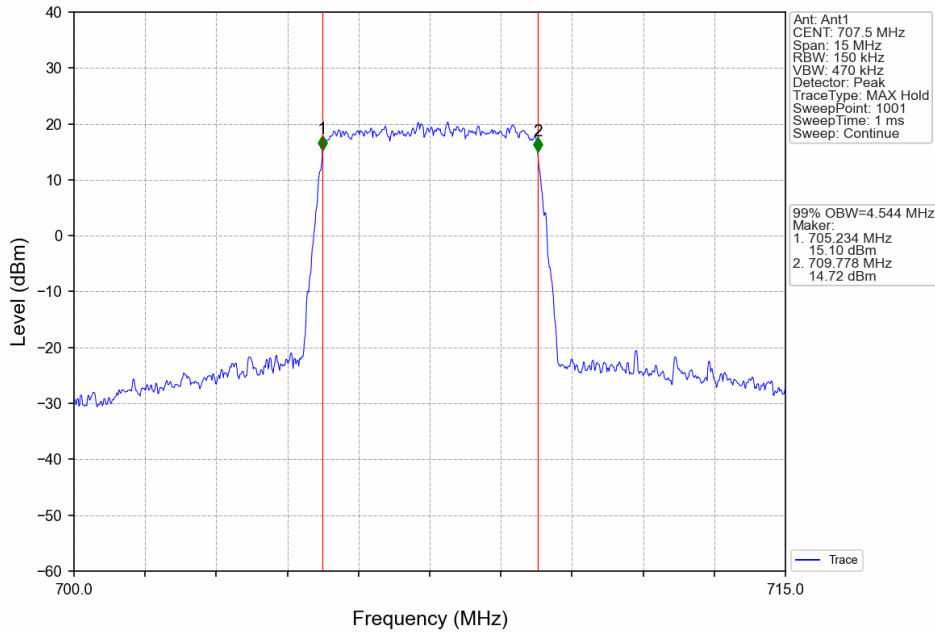
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Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV

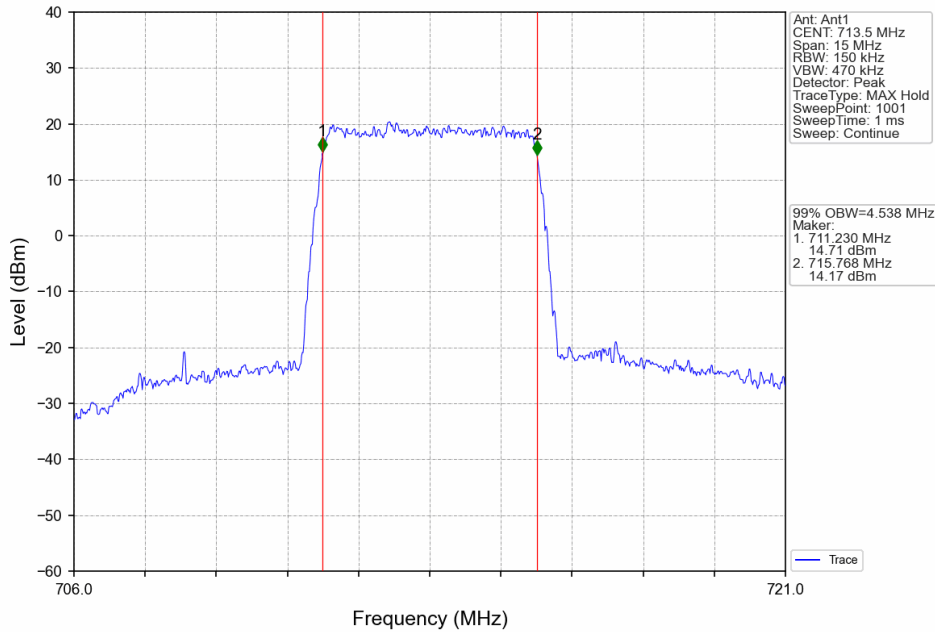


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Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



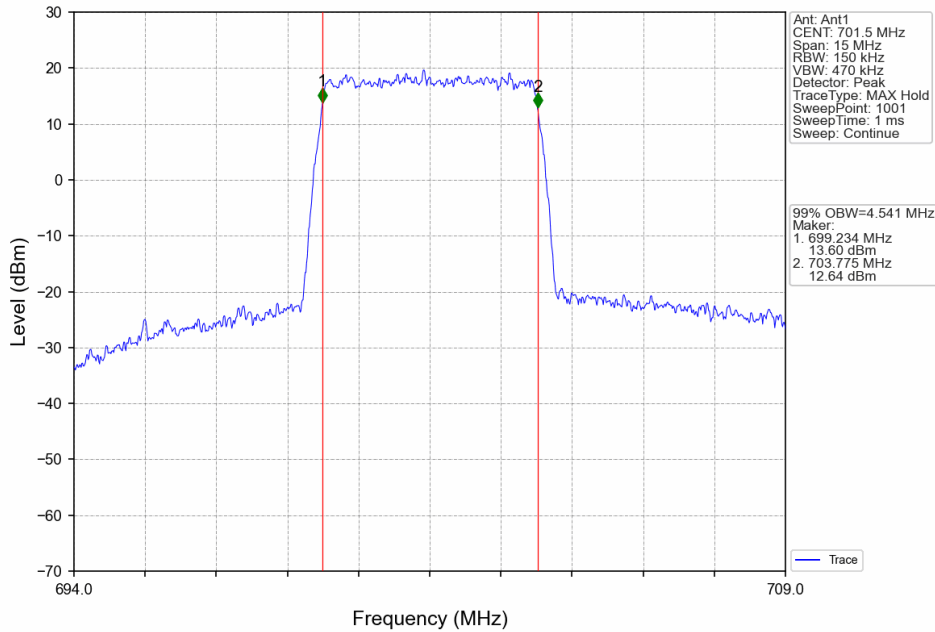
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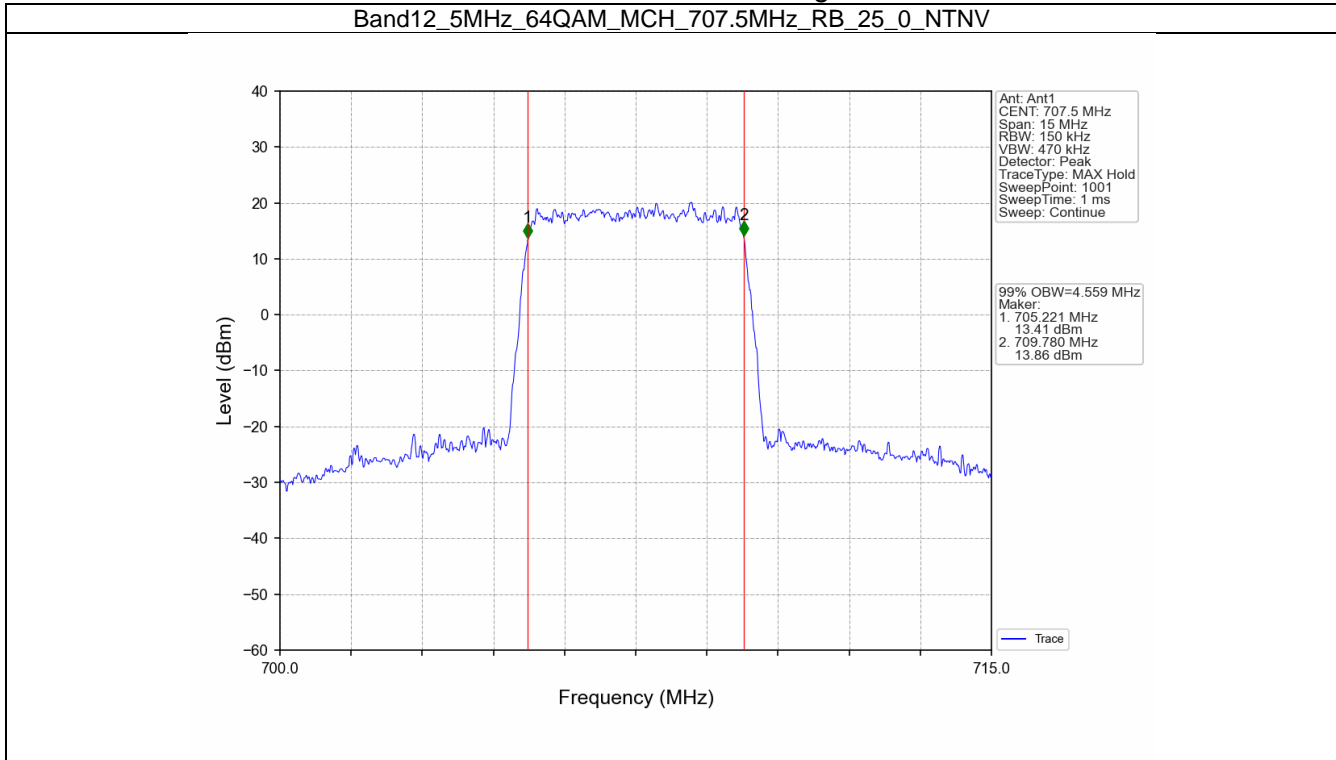
Band12_5MHz_64QAM_LCH_701.5MHz_RB_25_0_NTNV



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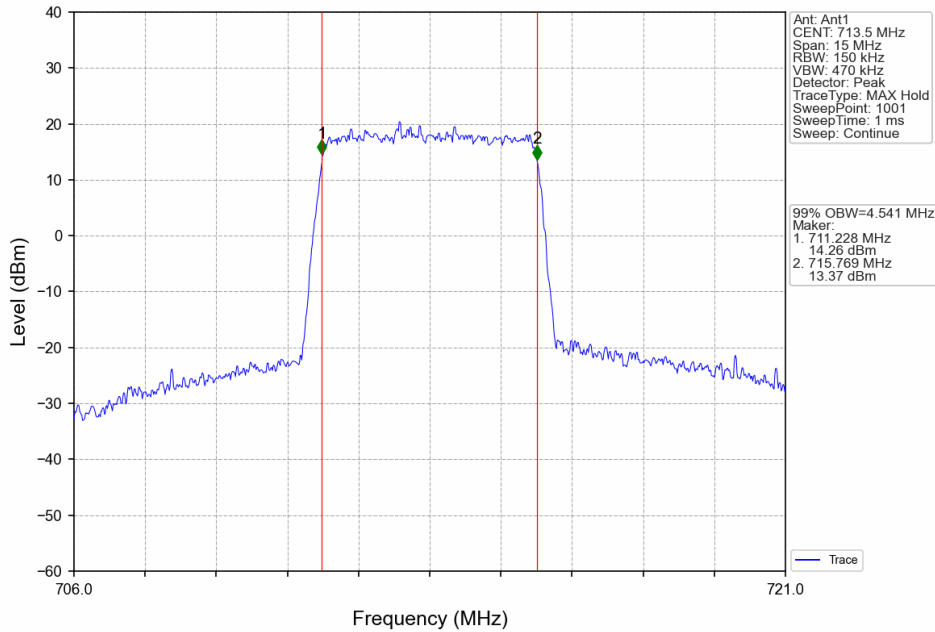
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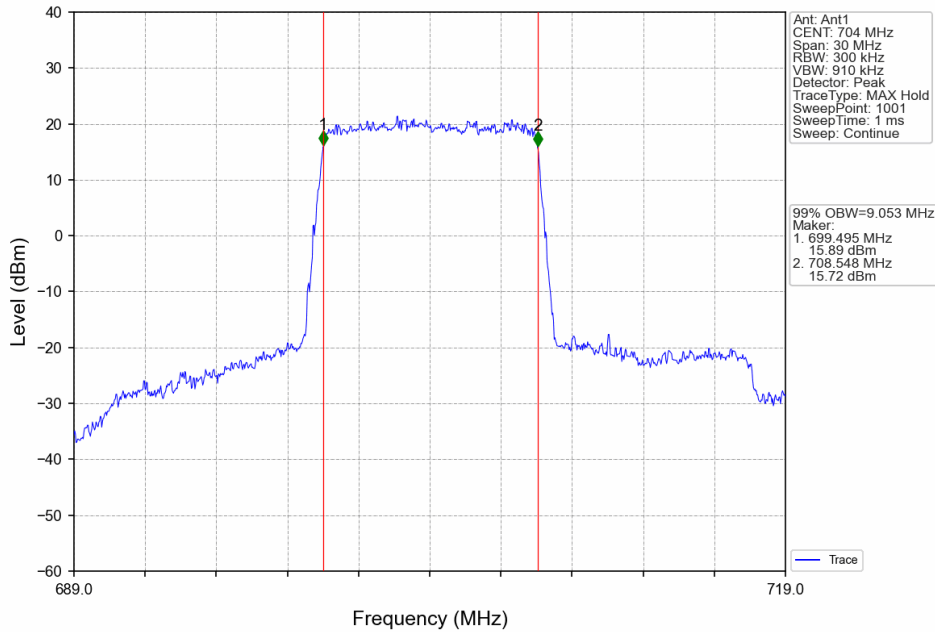


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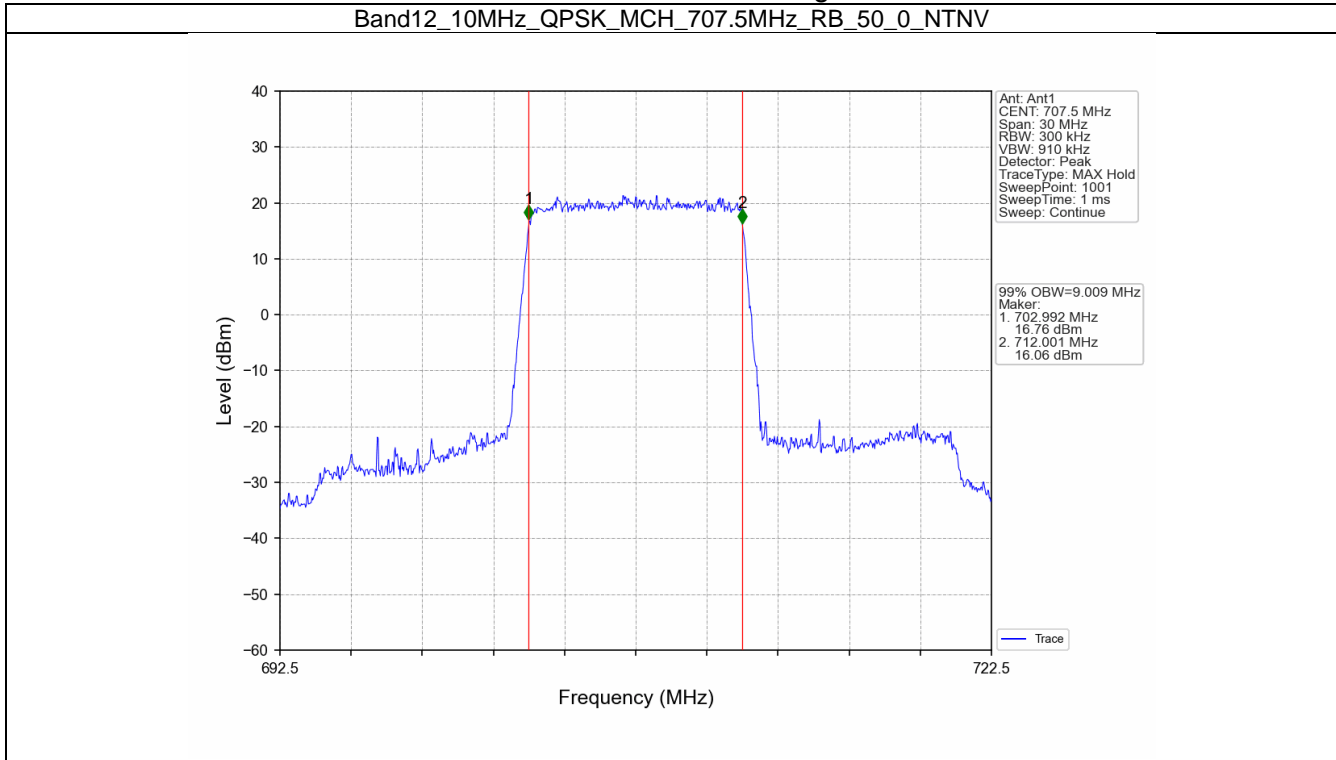
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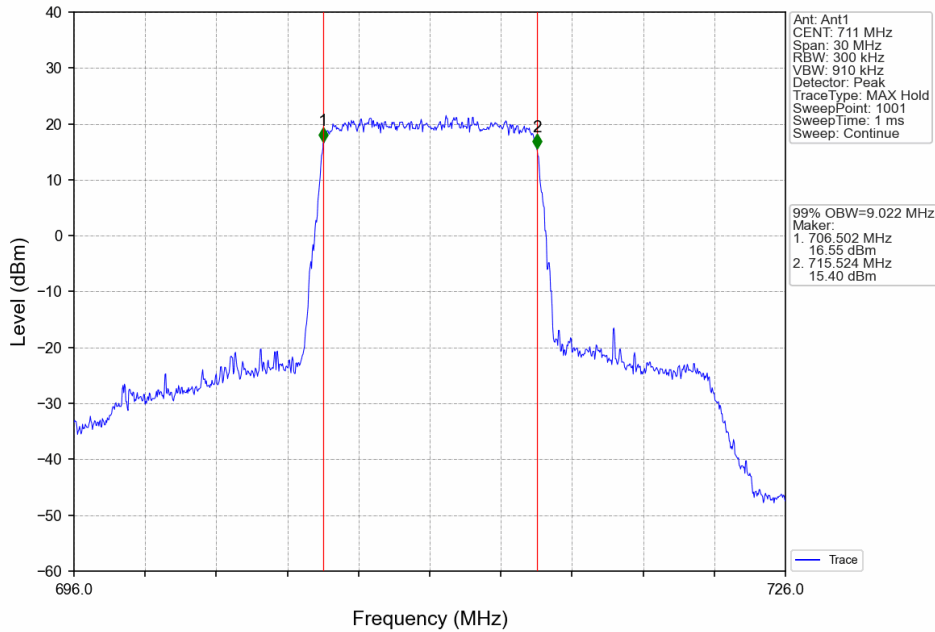
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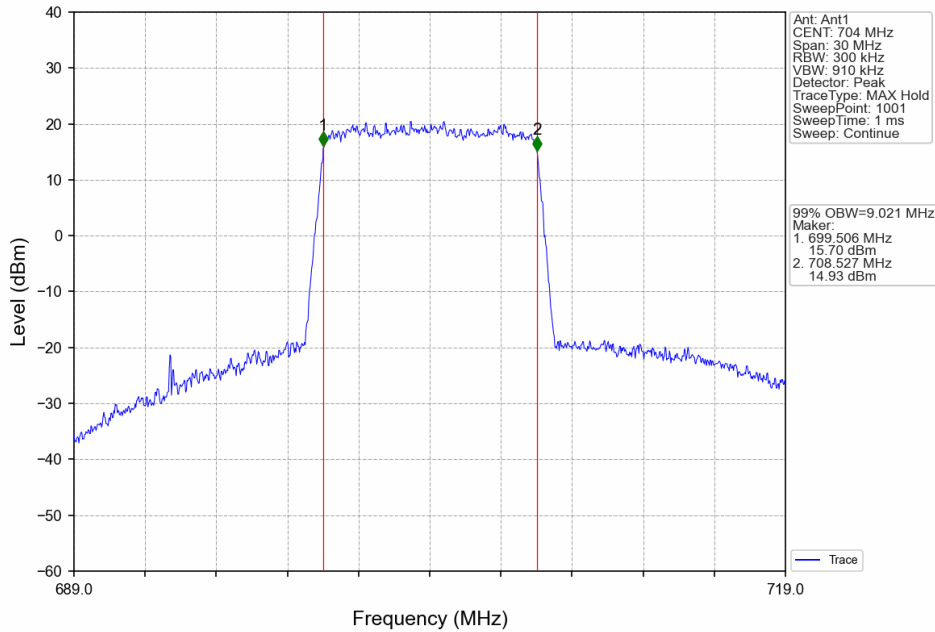


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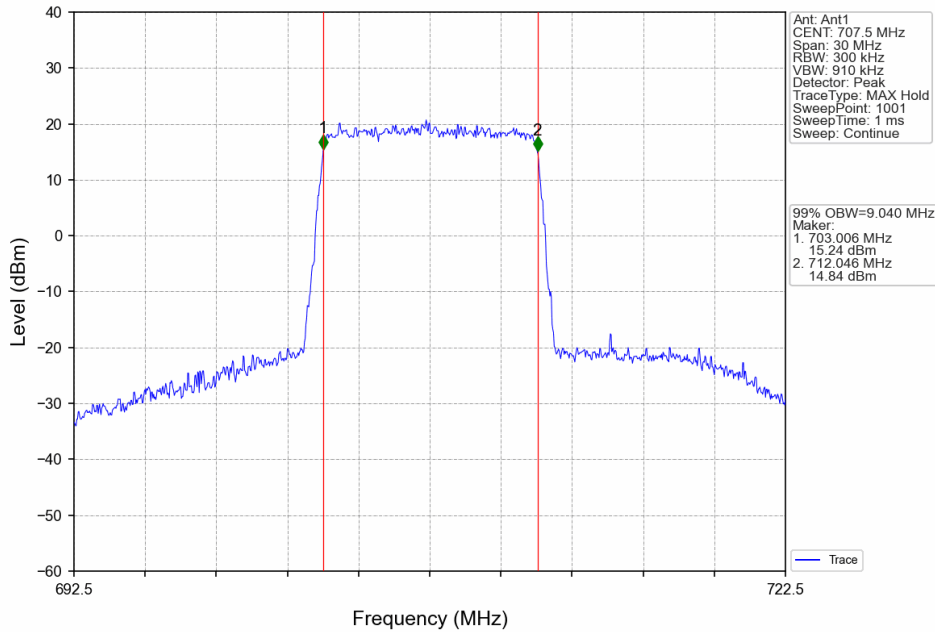


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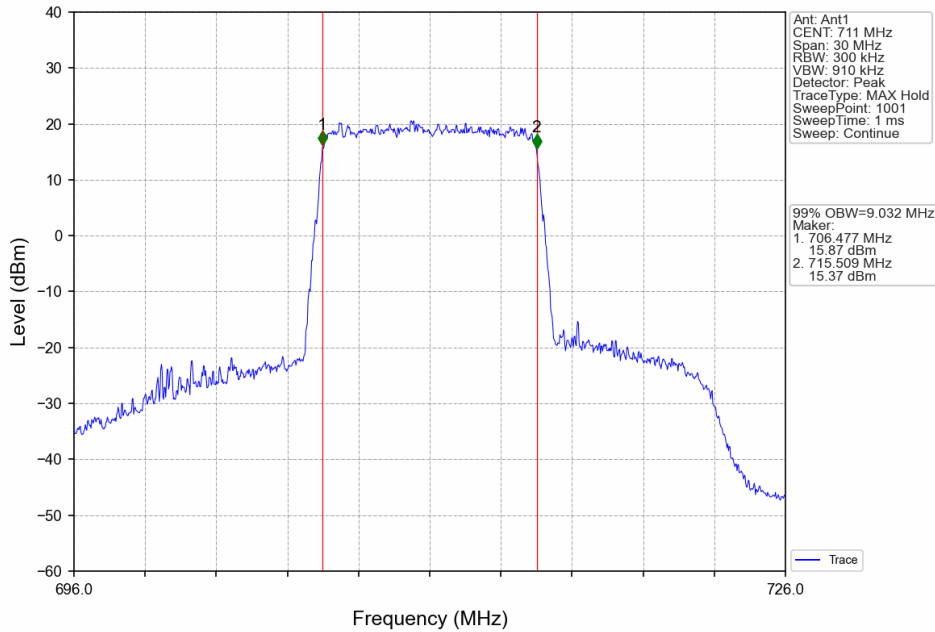


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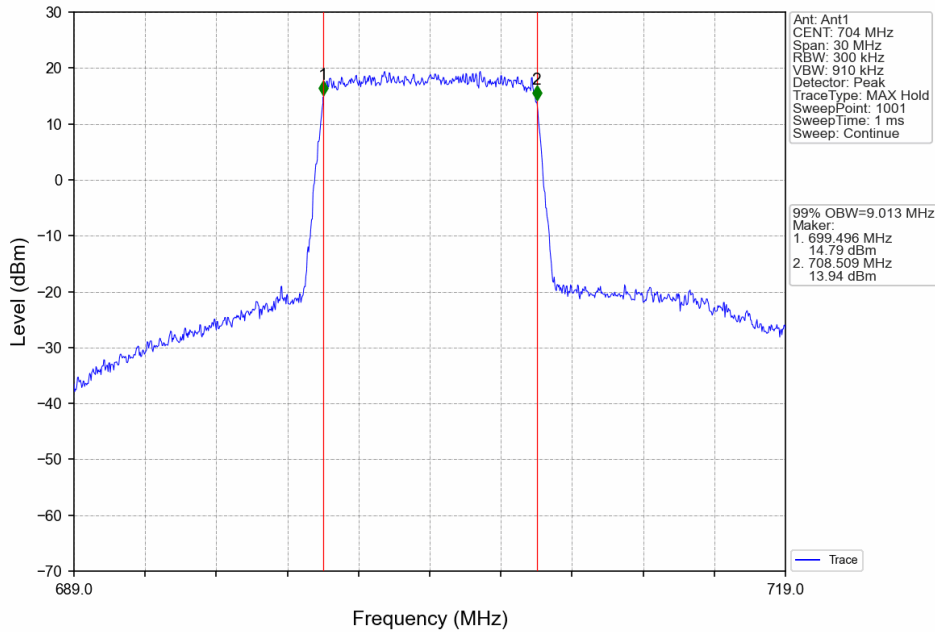
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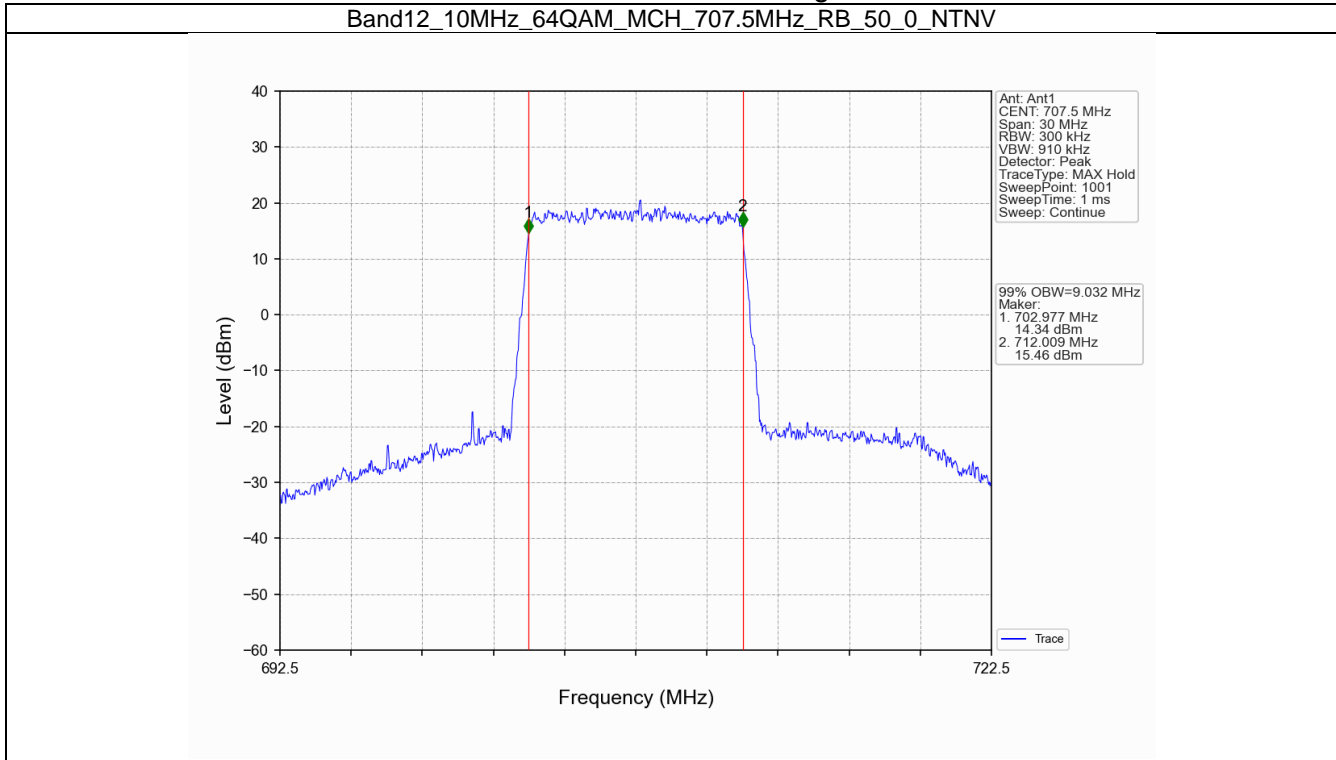


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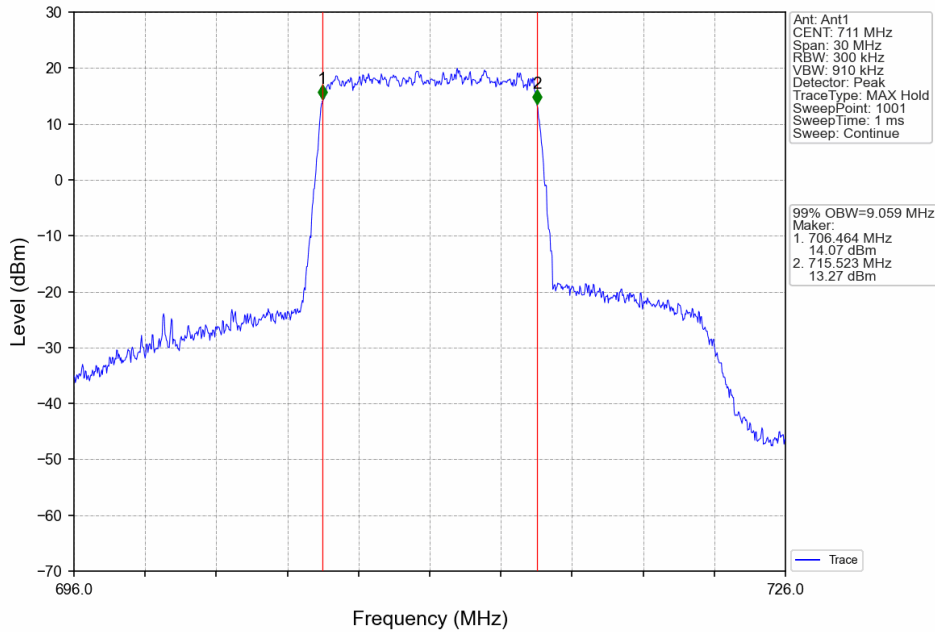
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Band12_10MHz_64QAM_HCH_711MHz_RB_50_0_NTNV



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2.2 Band12_XDB

2.2.1 Test Result

Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.265	/	Pass
		707.5	6	0	1.254	/	Pass
		715.3	6	0	1.261	/	Pass
	16QAM	699.7	6	0	1.257	/	Pass
		707.5	6	0	1.254	/	Pass
		715.3	6	0	1.267	/	Pass
	64QAM	699.7	6	0	1.264	/	Pass
		707.5	6	0	1.274	/	Pass
		715.3	6	0	1.250	/	Pass
3	QPSK	700.5	15	0	3.059	/	Pass
		707.5	15	0	3.046	/	Pass
		714.5	15	0	3.092	/	Pass
	16QAM	700.5	15	0	3.063	/	Pass
		707.5	15	0	3.063	/	Pass
		714.5	15	0	3.074	/	Pass
	64QAM	700.5	15	0	3.066	/	Pass
		707.5	15	0	3.028	/	Pass
		714.5	15	0	3.071	/	Pass
5	QPSK	701.5	25	0	5.027	/	Pass
		707.5	25	0	5.054	/	Pass
		713.5	25	0	5.055	/	Pass
	16QAM	701.5	25	0	5.023	/	Pass
		707.5	25	0	5.037	/	Pass
		713.5	25	0	5.047	/	Pass
	64QAM	701.5	25	0	5.053	/	Pass
		707.5	25	0	5.038	/	Pass
		713.5	25	0	5.003	/	Pass
10	QPSK	704	50	0	9.917	/	Pass
		707.5	50	0	9.911	/	Pass
		711	50	0	9.914	/	Pass
	16QAM	704	50	0	9.943	/	Pass
		707.5	50	0	9.841	/	Pass
		711	50	0	9.964	/	Pass
	64QAM	704	50	0	9.898	/	Pass
		707.5	50	0	9.947	/	Pass
		711	50	0	9.919	/	Pass

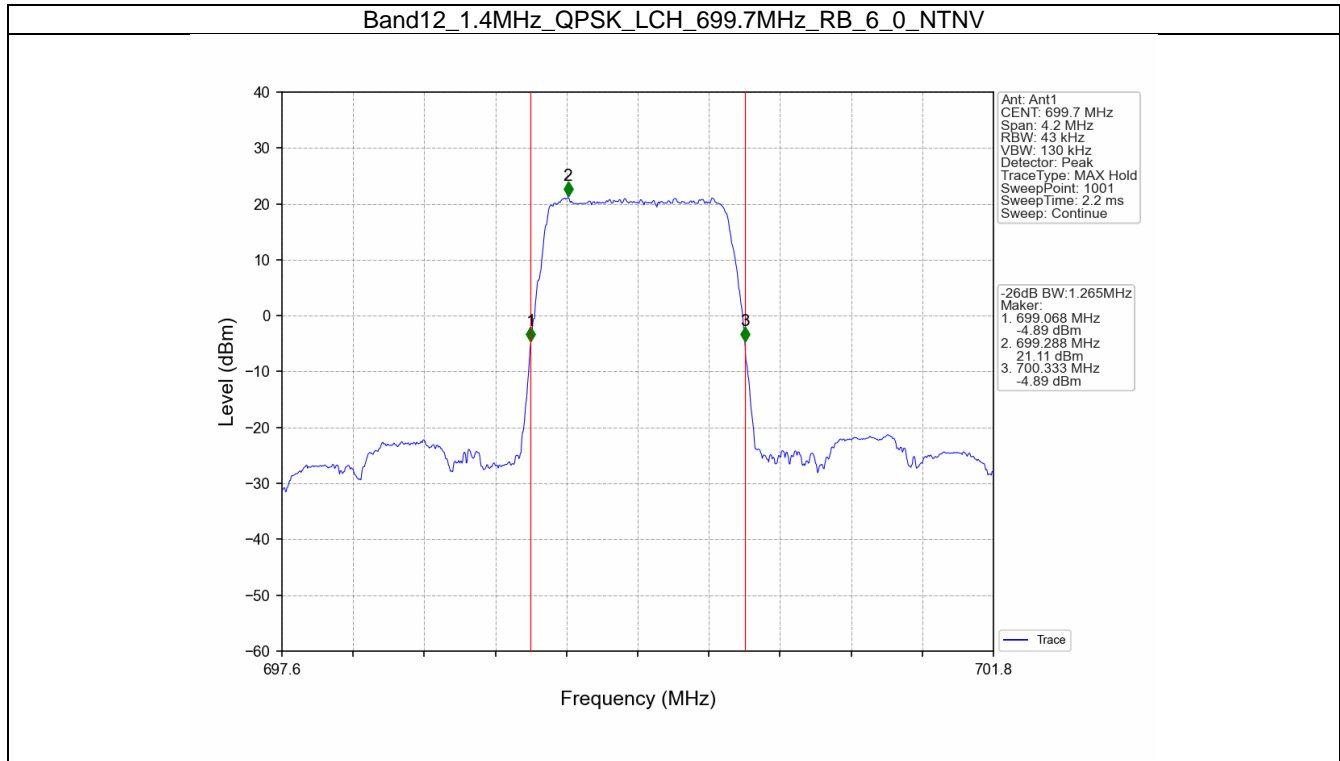


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2.2.2 Test Graph

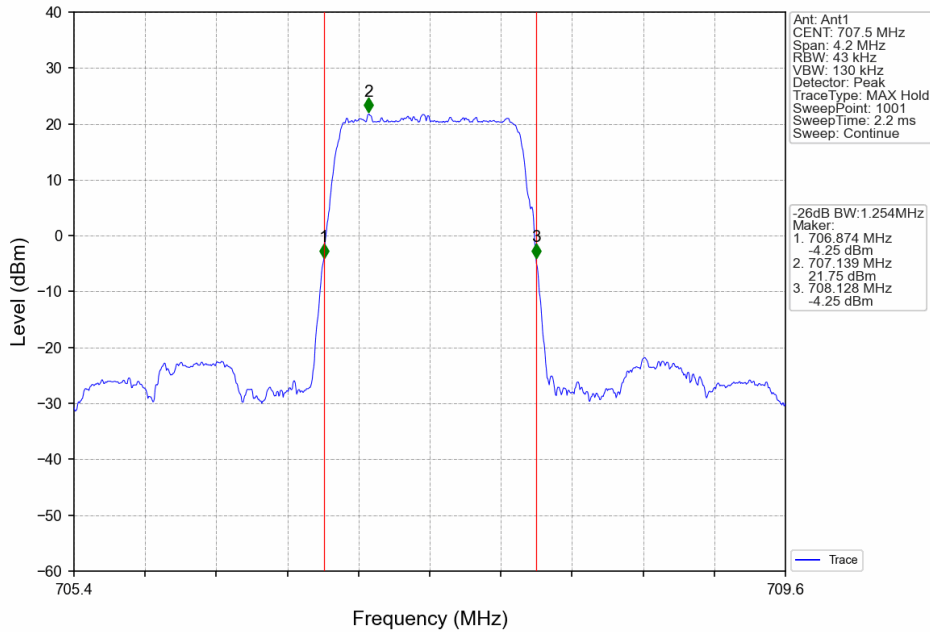


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Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



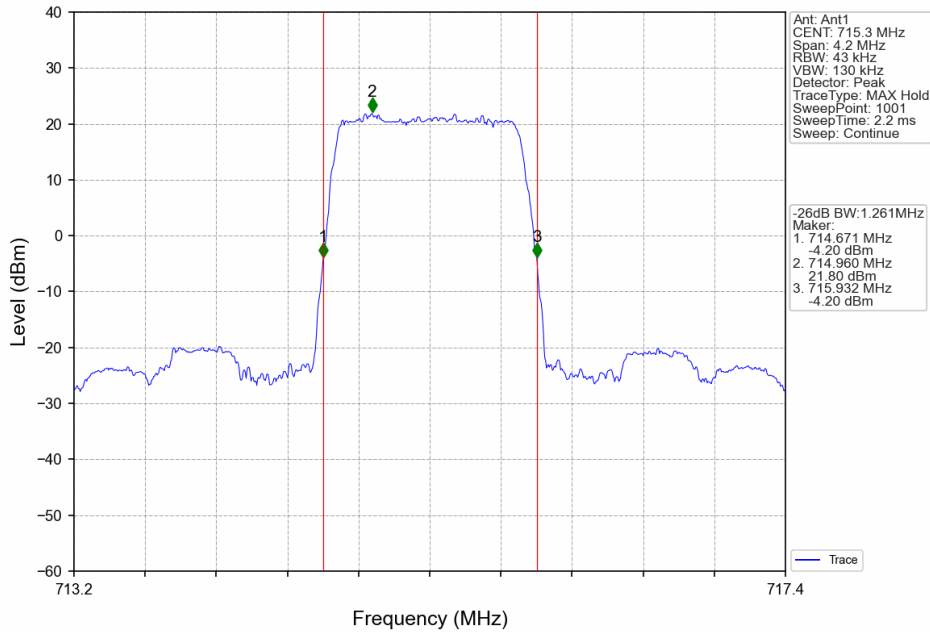
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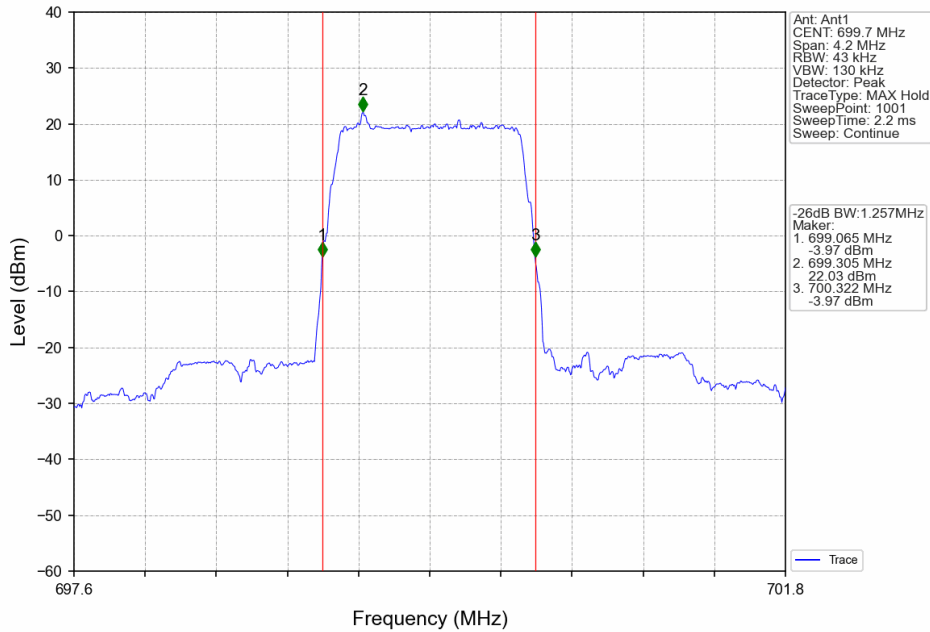


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Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV

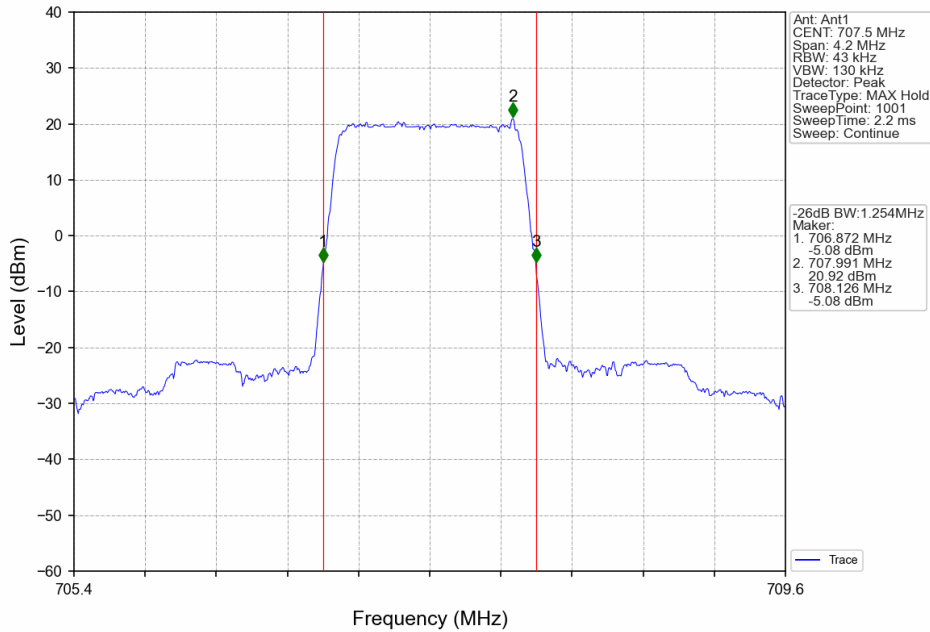


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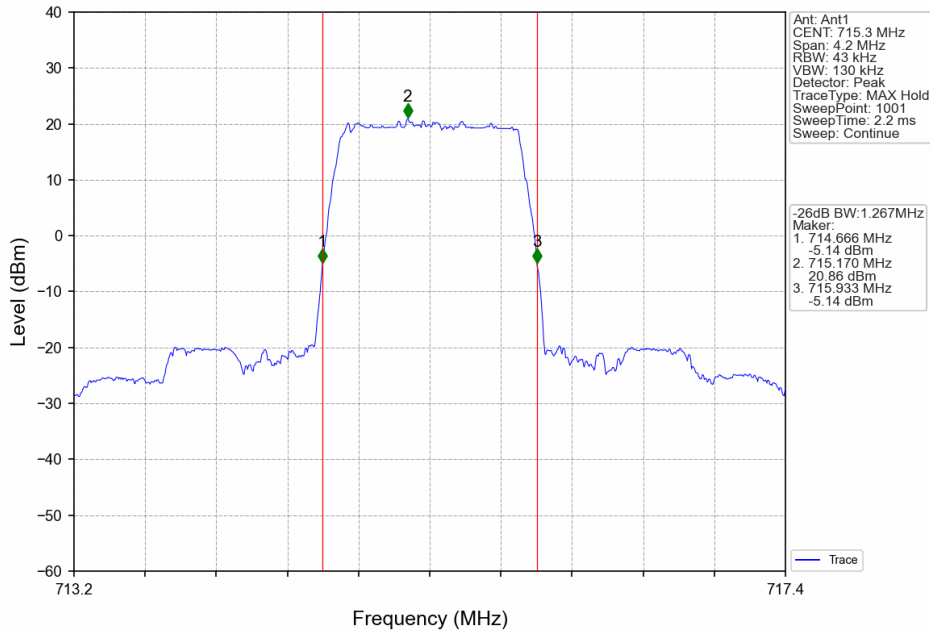


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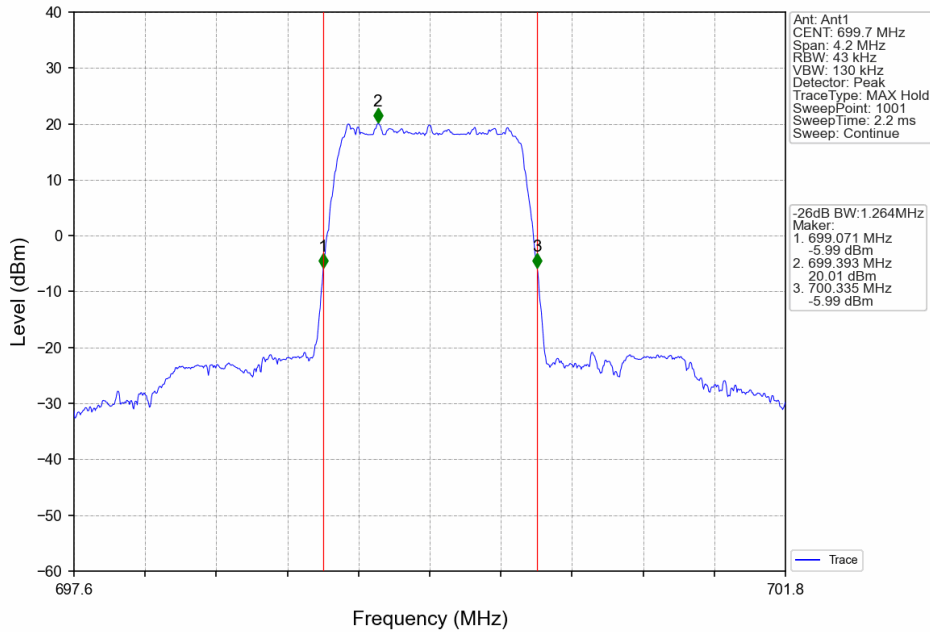


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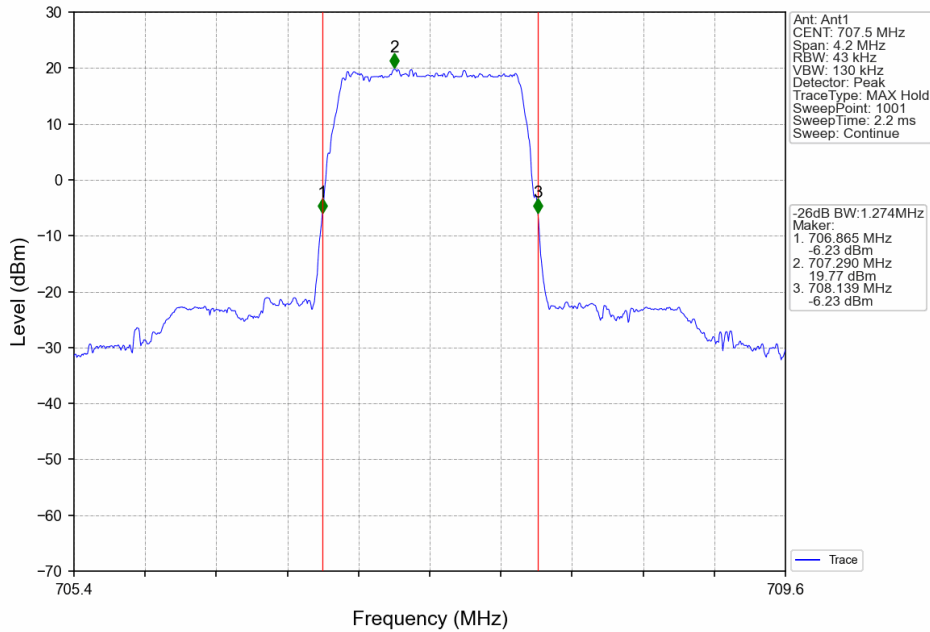


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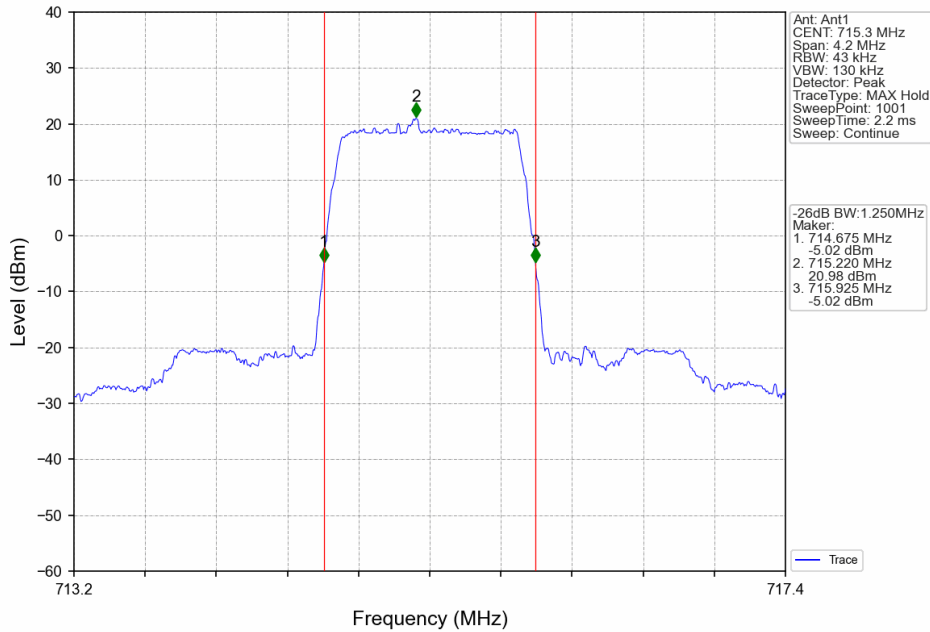


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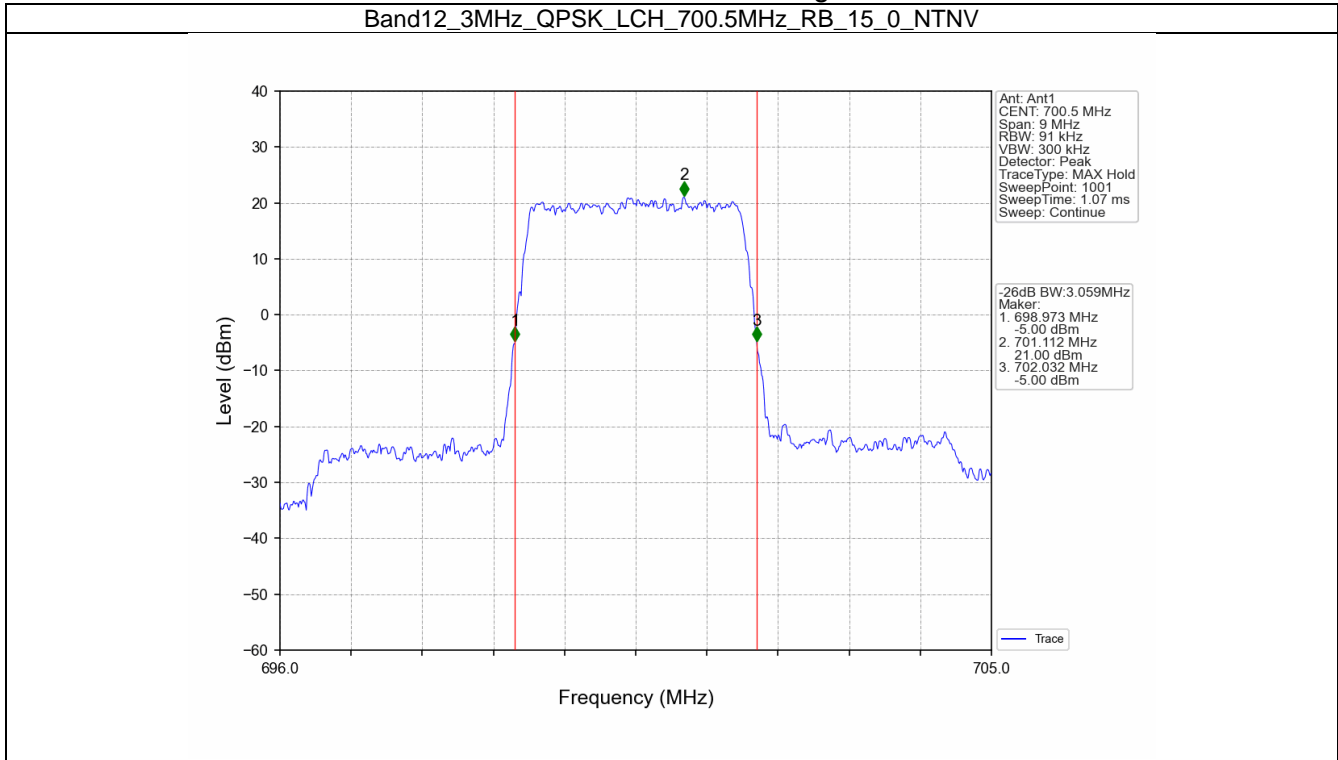


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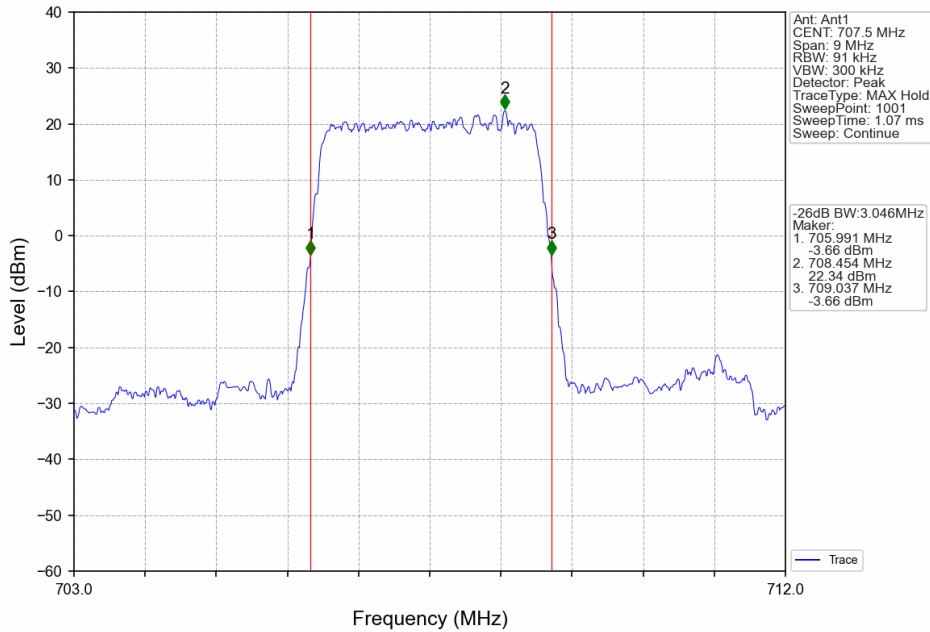
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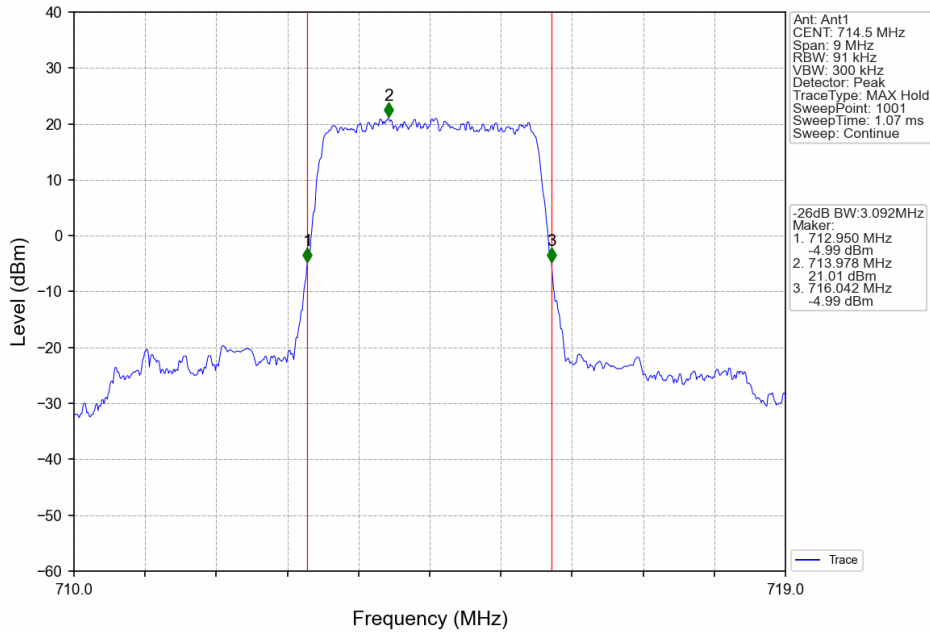
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Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



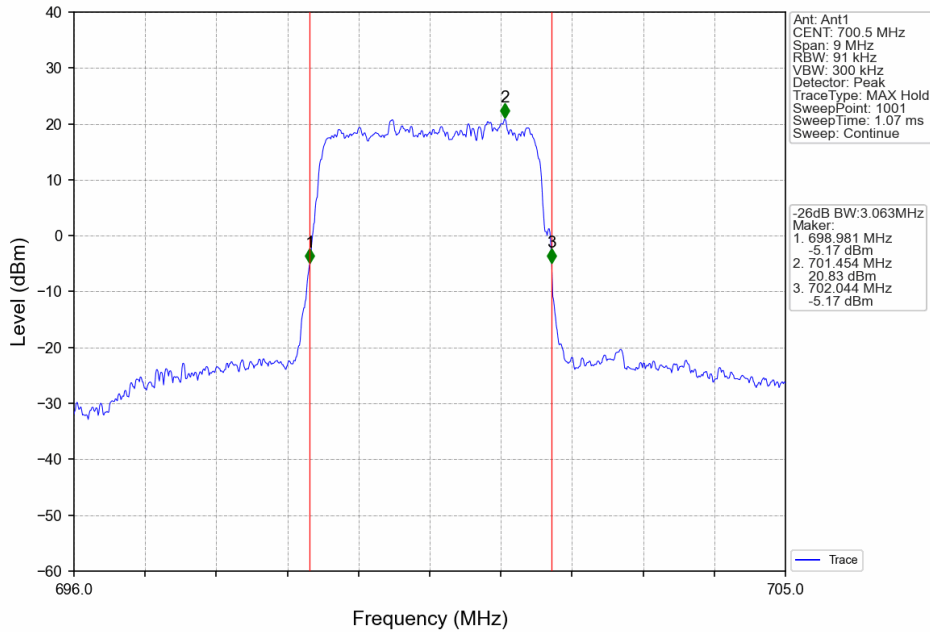
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Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV

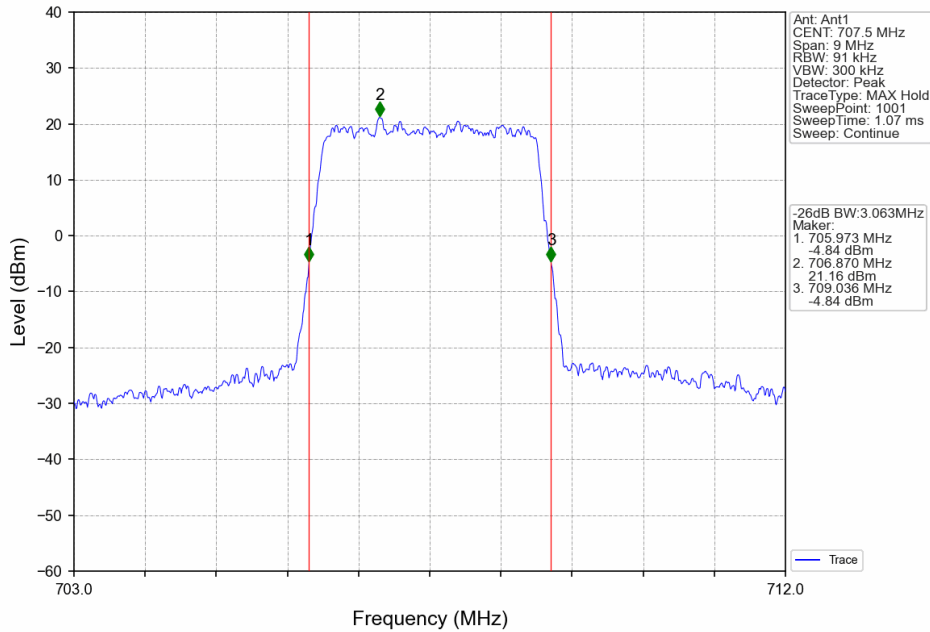


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Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV

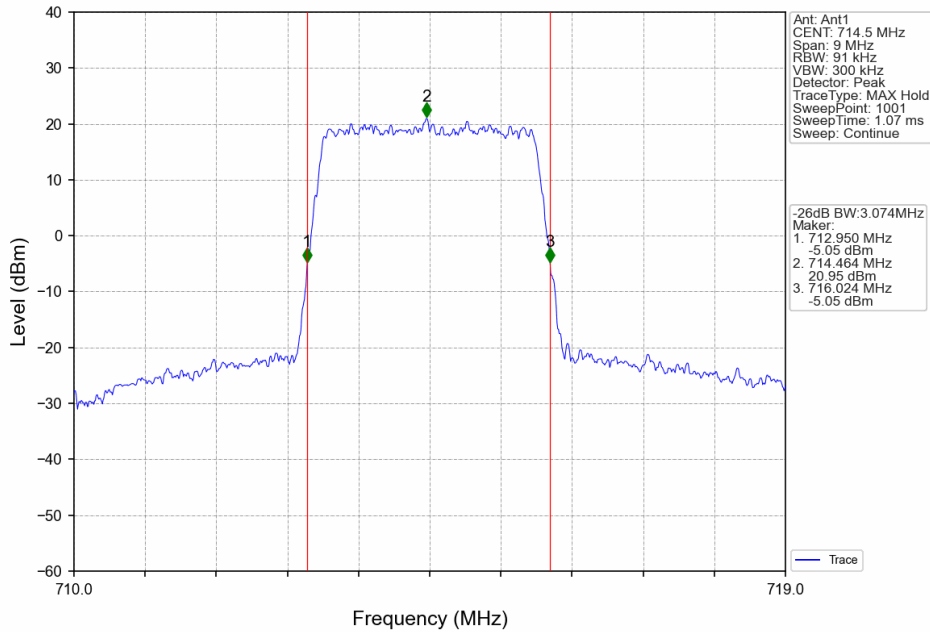


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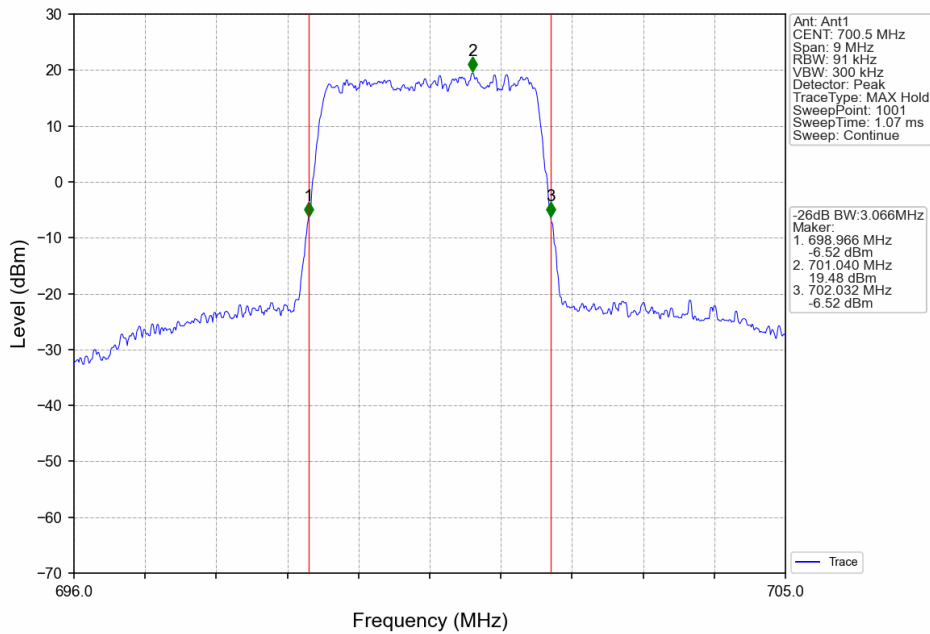


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Band12_3MHz_64QAM_LCH_700.5MHz_RB_15_0_NTNV



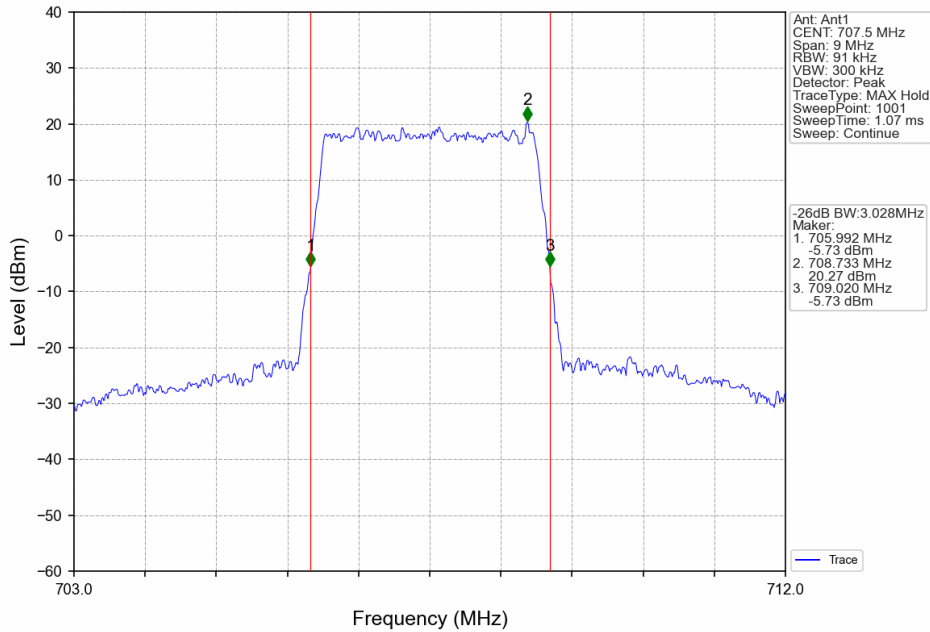
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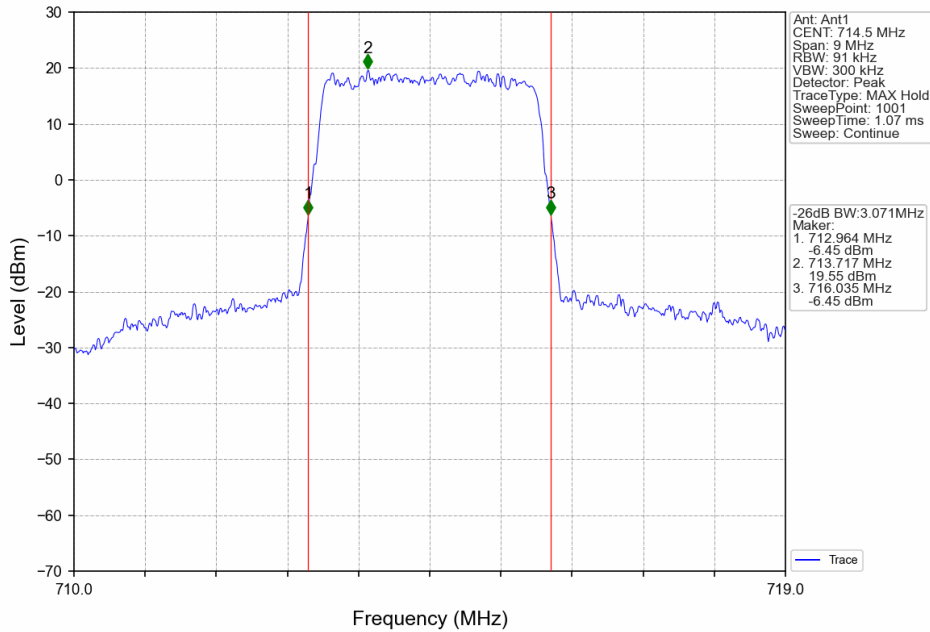


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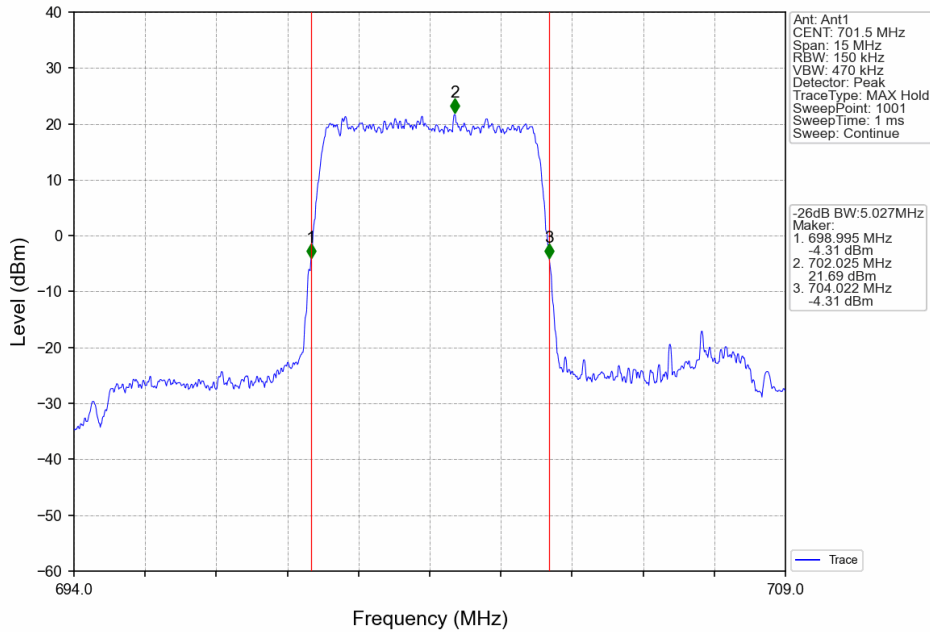


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Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV

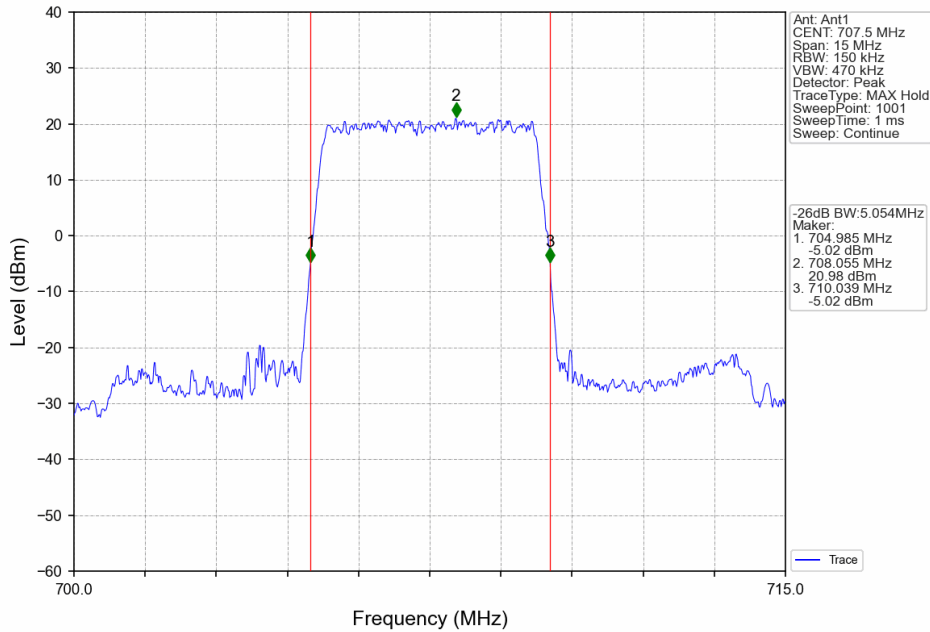


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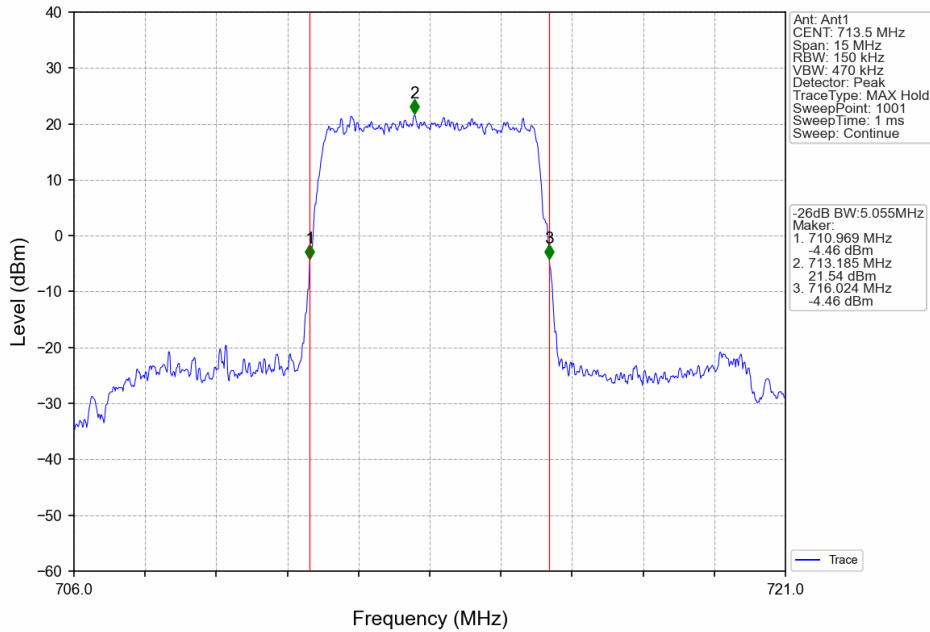


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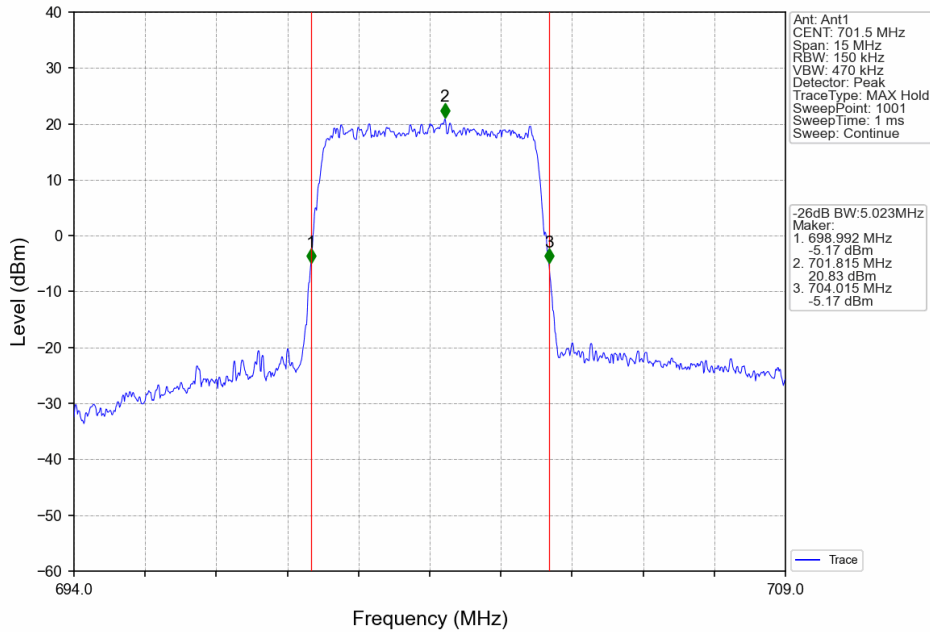


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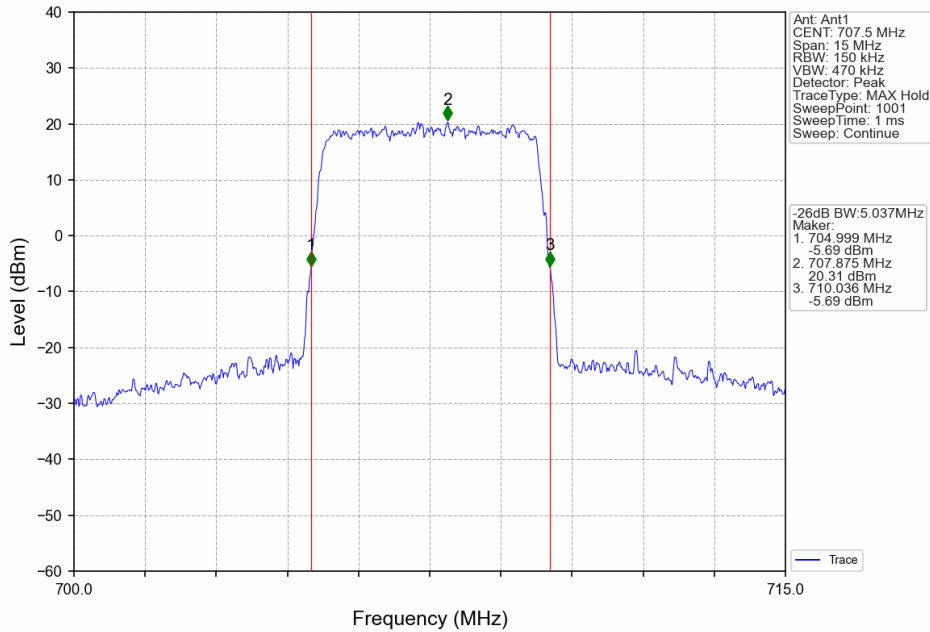
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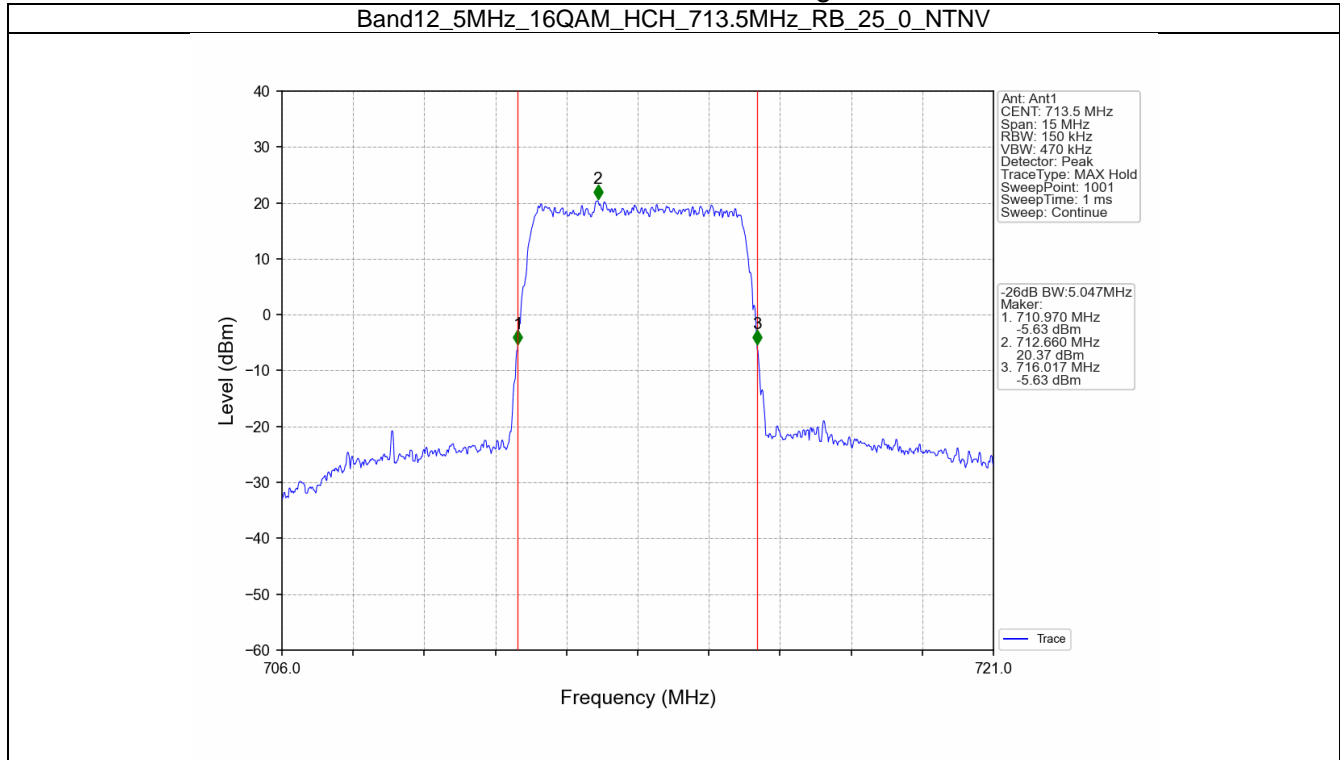
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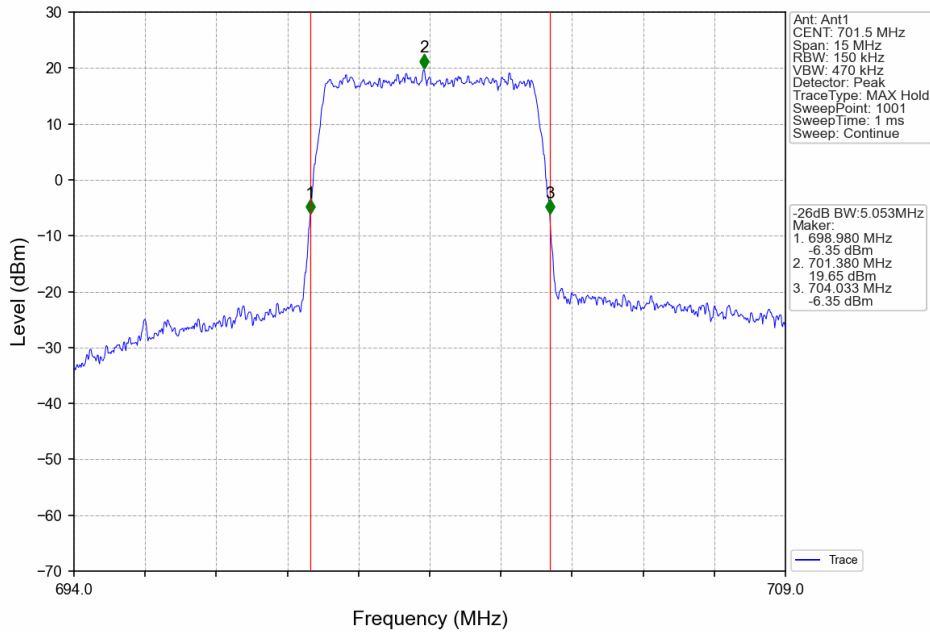


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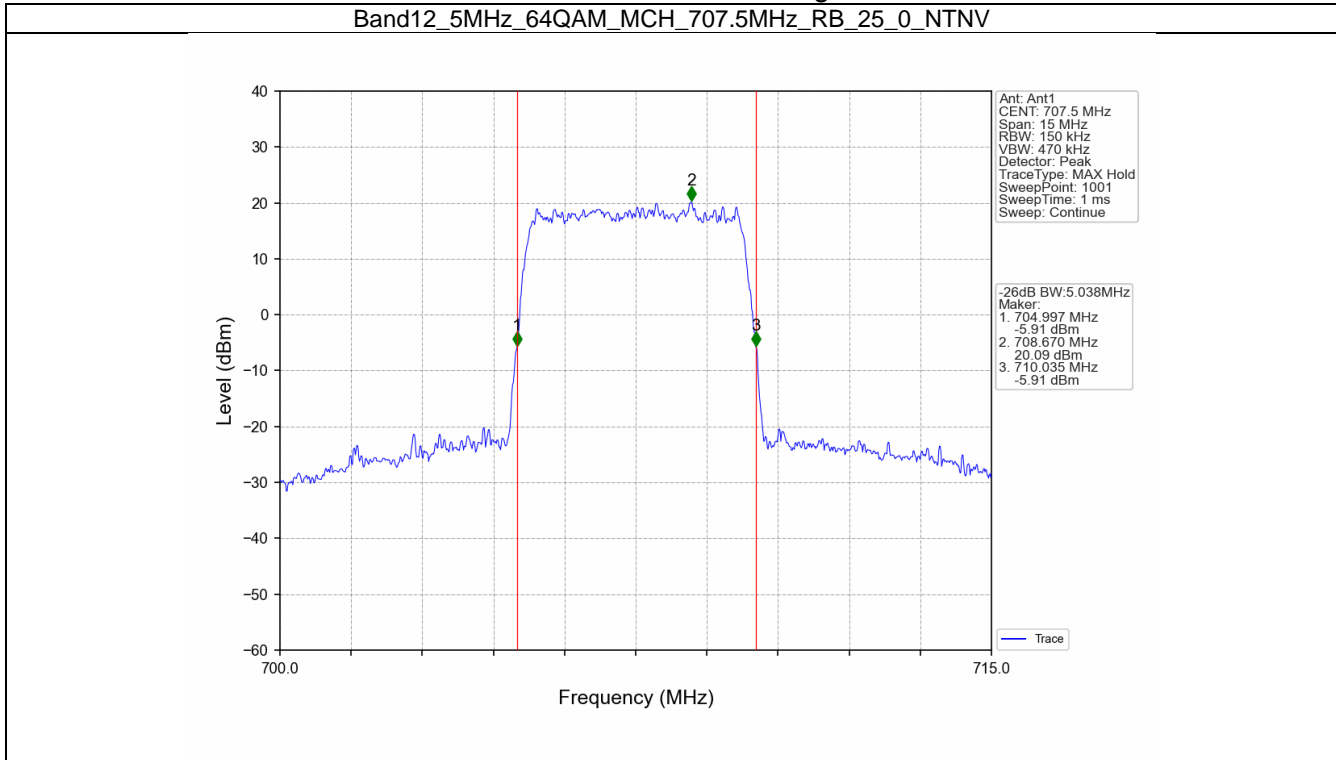
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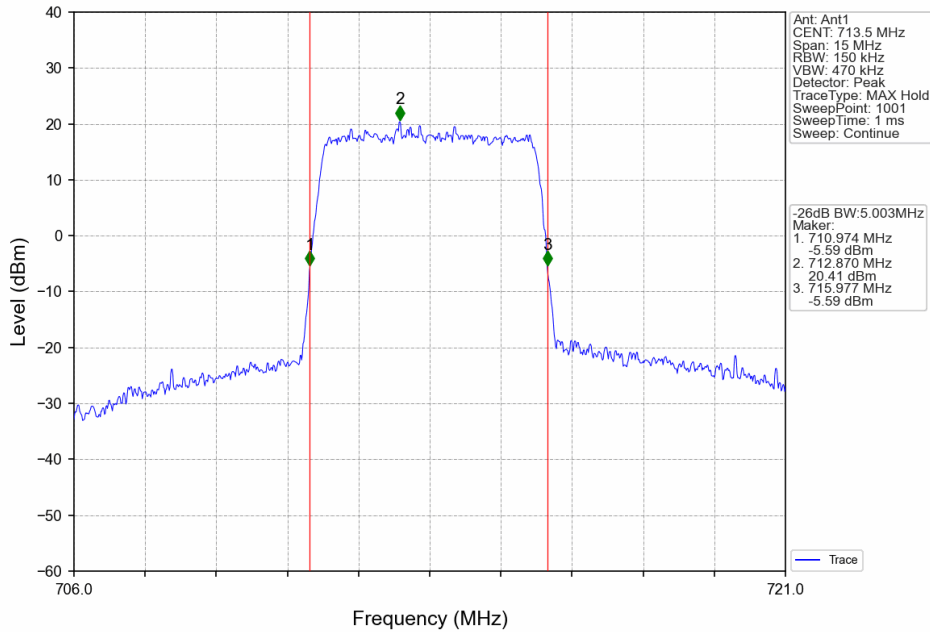


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Band12_5MHz_64QAM_HCH_713.5MHz_RB_25_0_NTNV

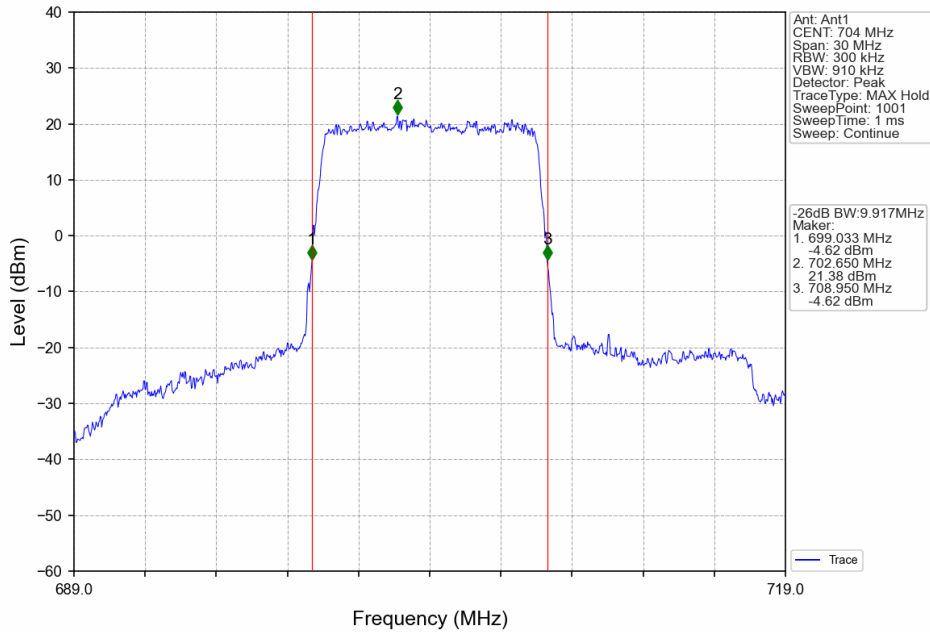


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Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV

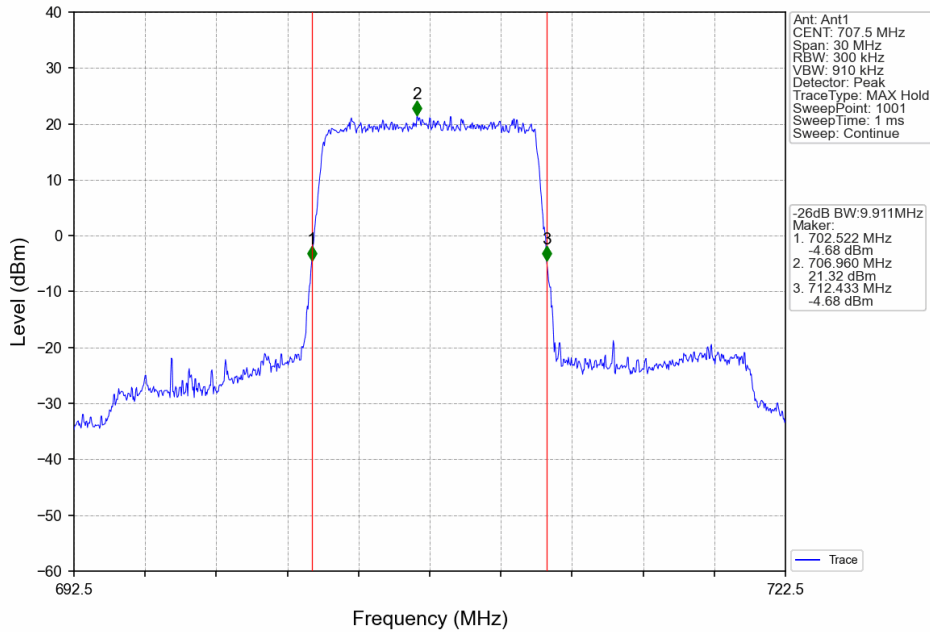


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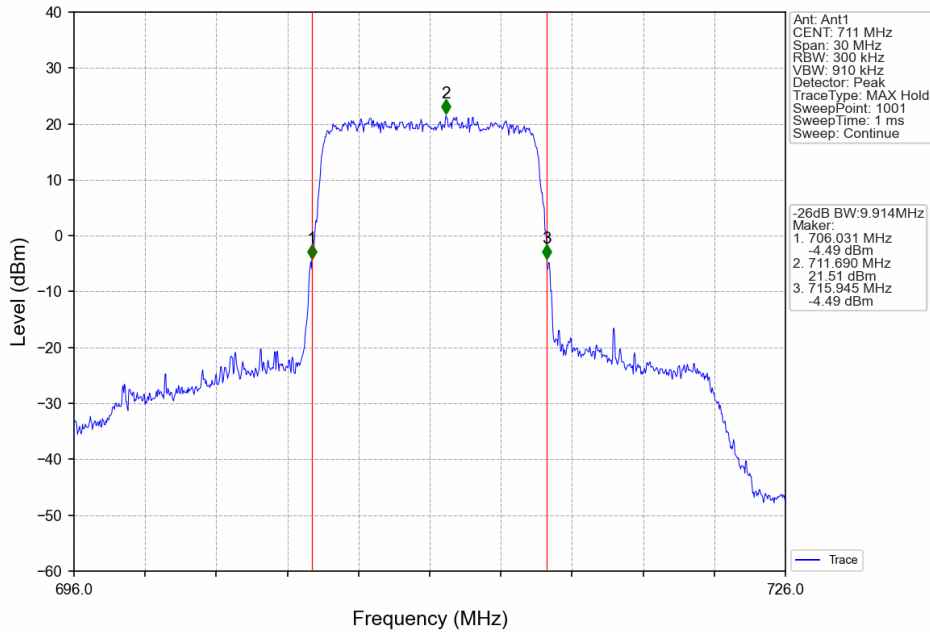
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Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV

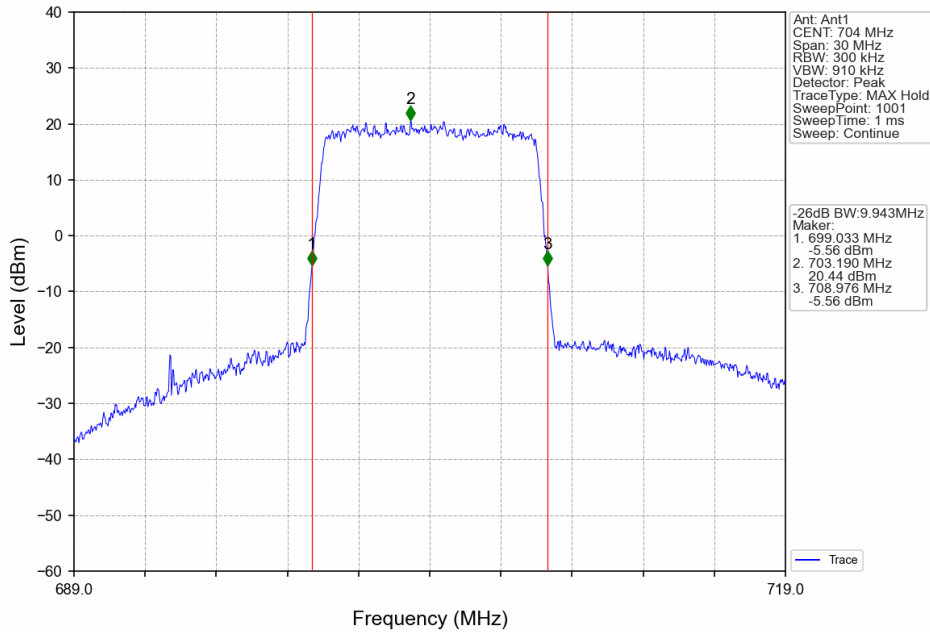


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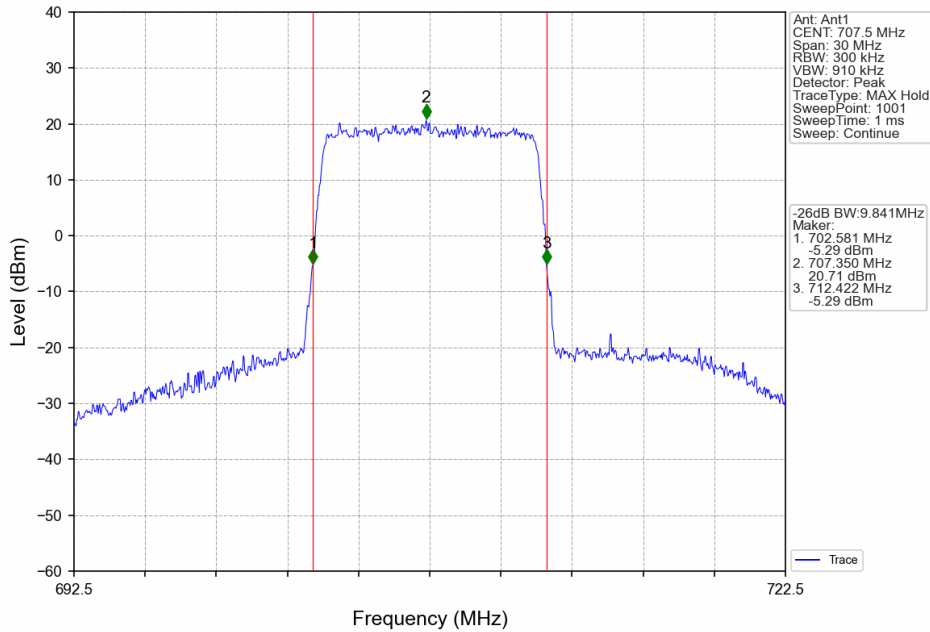


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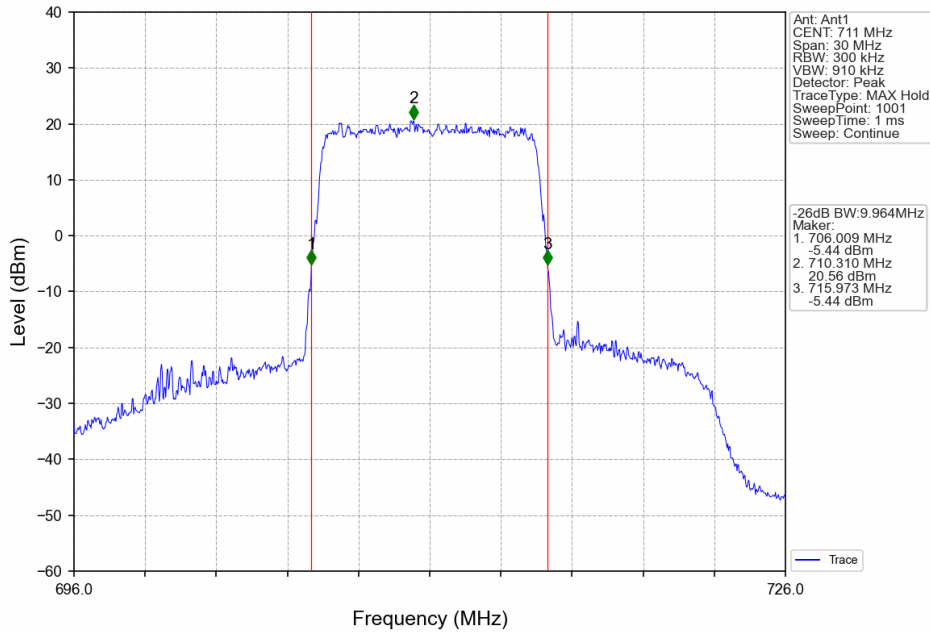


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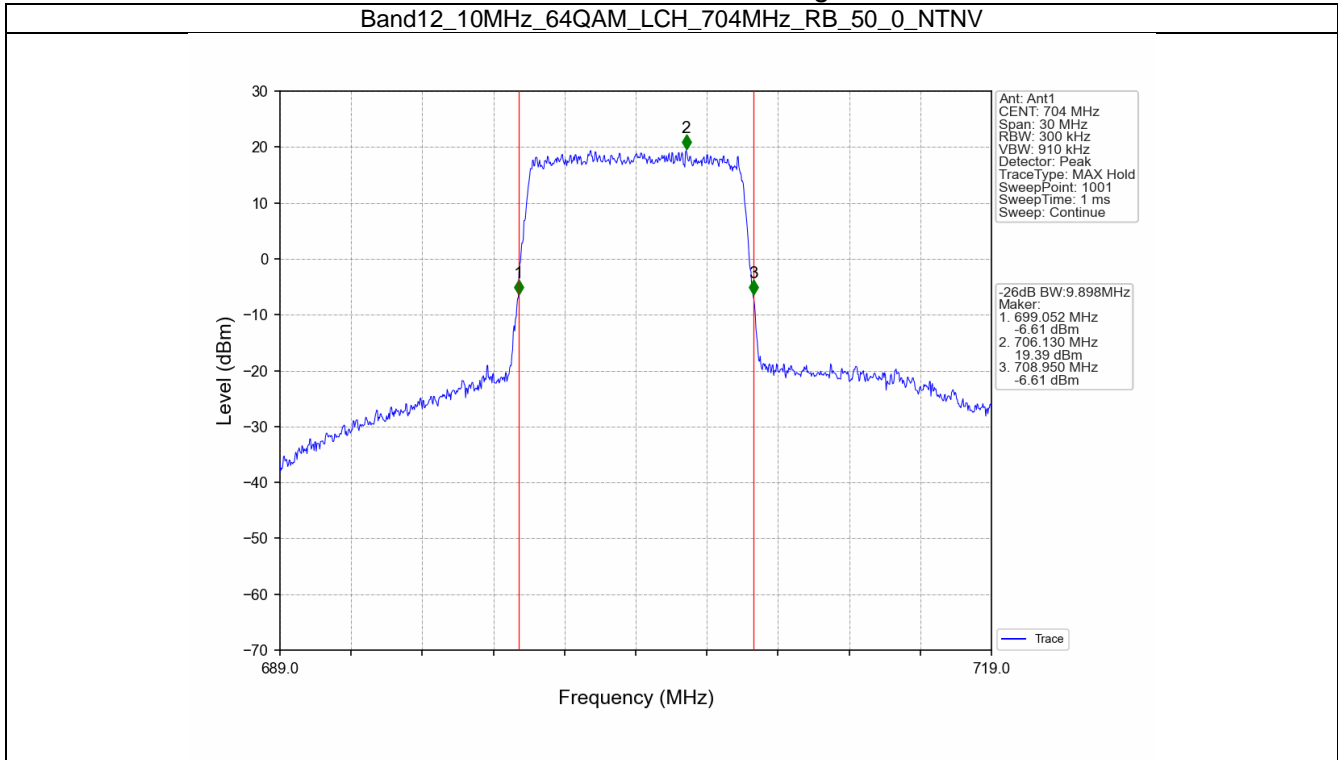


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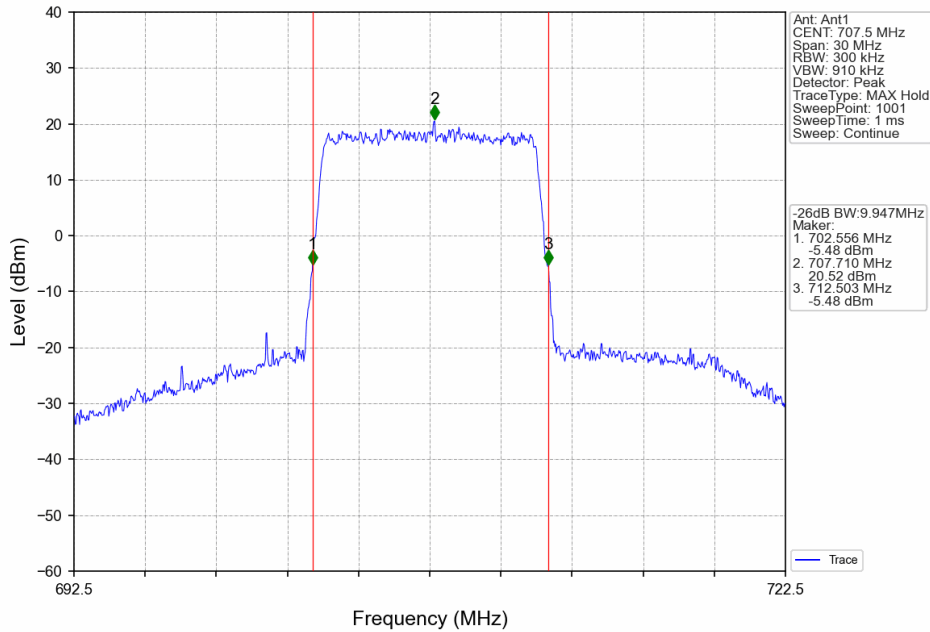


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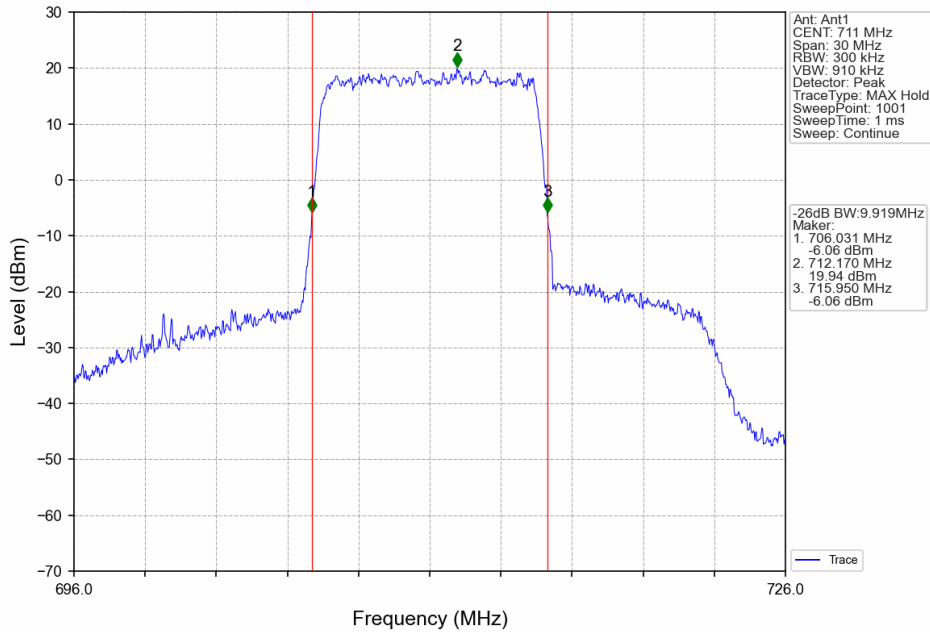


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3. Peak-Average Ratio

3.1 B12_1.4MHz

3.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	6	0	5.34	<=13	Pass
	707.5	6	0	5.38	<=13	Pass
	715.3	6	0	5.20	<=13	Pass
16QAM	699.7	6	0	6.16	<=13	Pass
	707.5	6	0	6.12	<=13	Pass
	715.3	6	0	5.98	<=13	Pass
64QAM	699.7	6	0	6.40	<=13	Pass
	707.5	6	0	6.79	<=13	Pass
	715.3	6	0	6.55	<=13	Pass

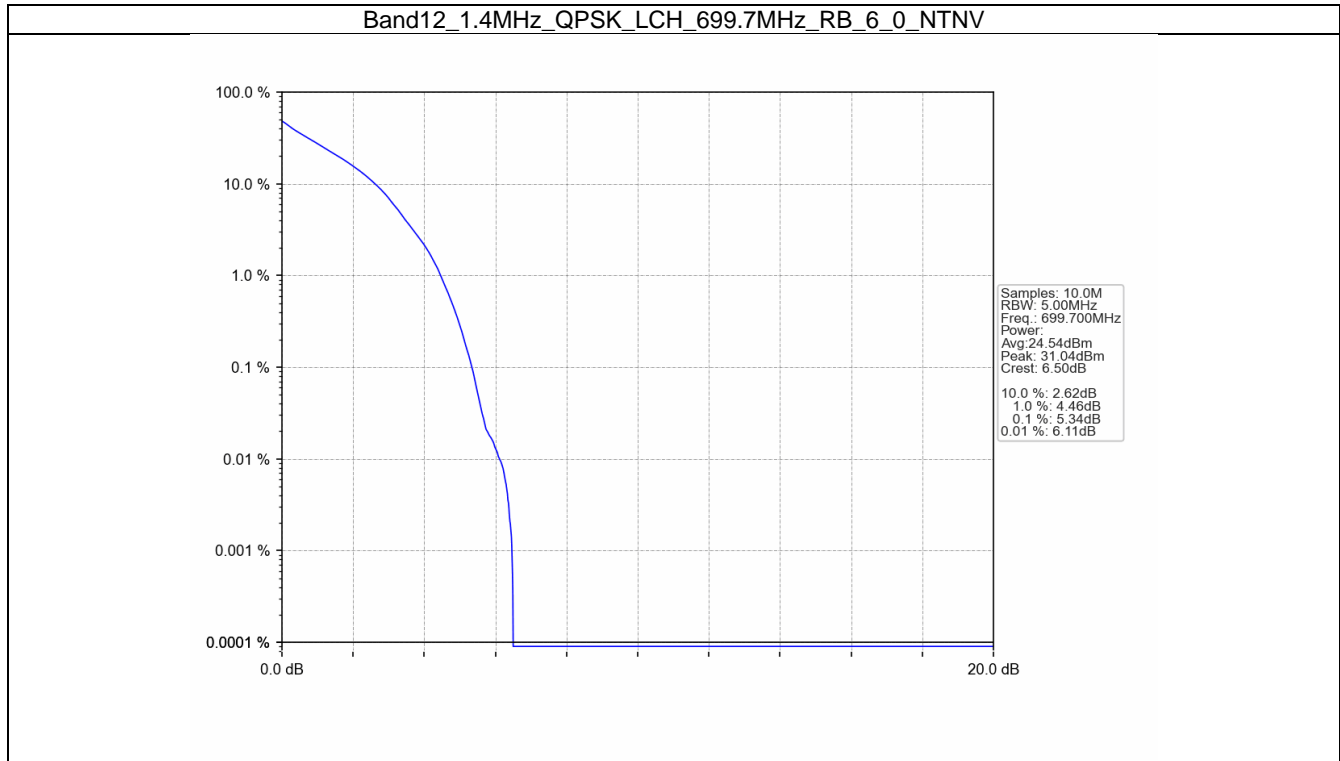


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3.1.2 Test Graph



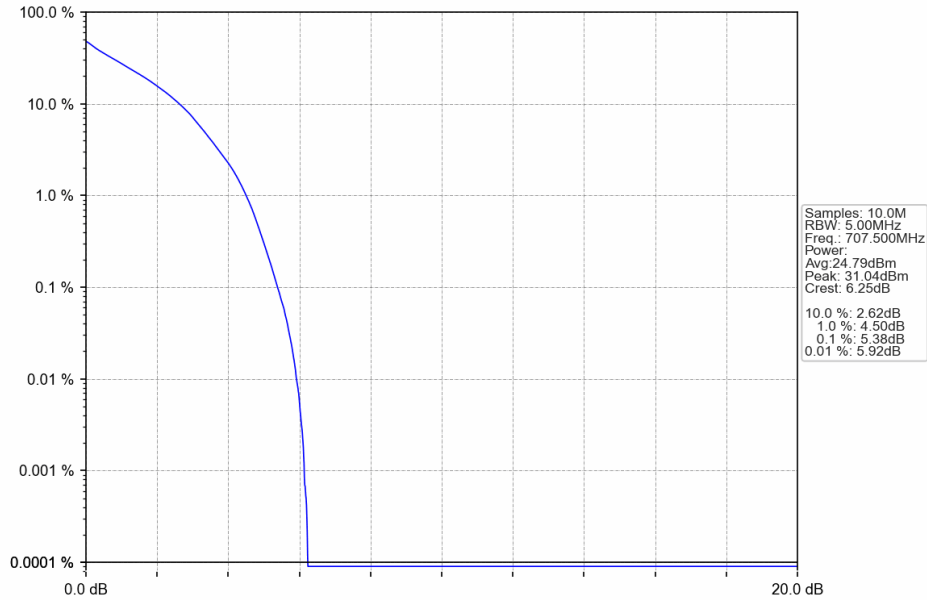
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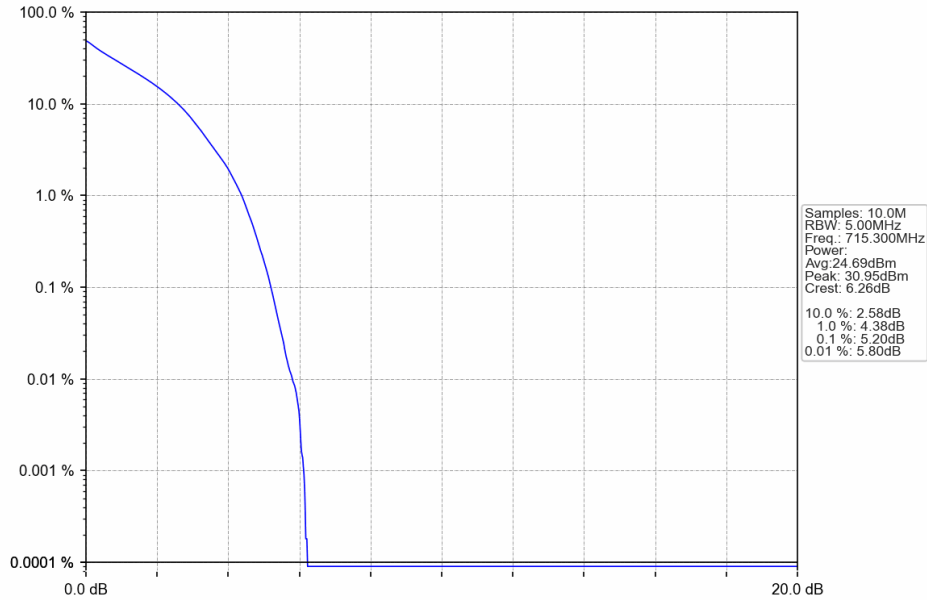
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Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV

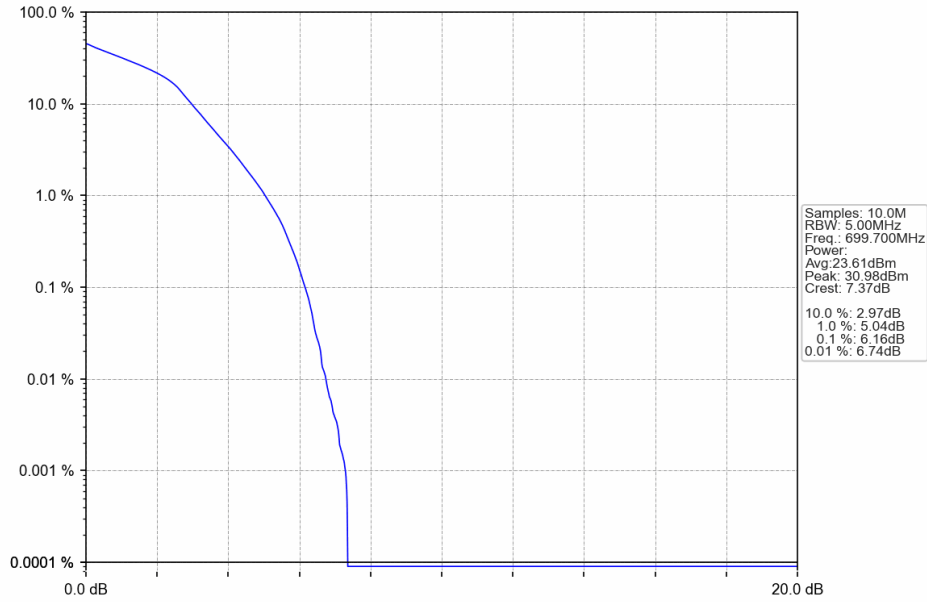


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Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



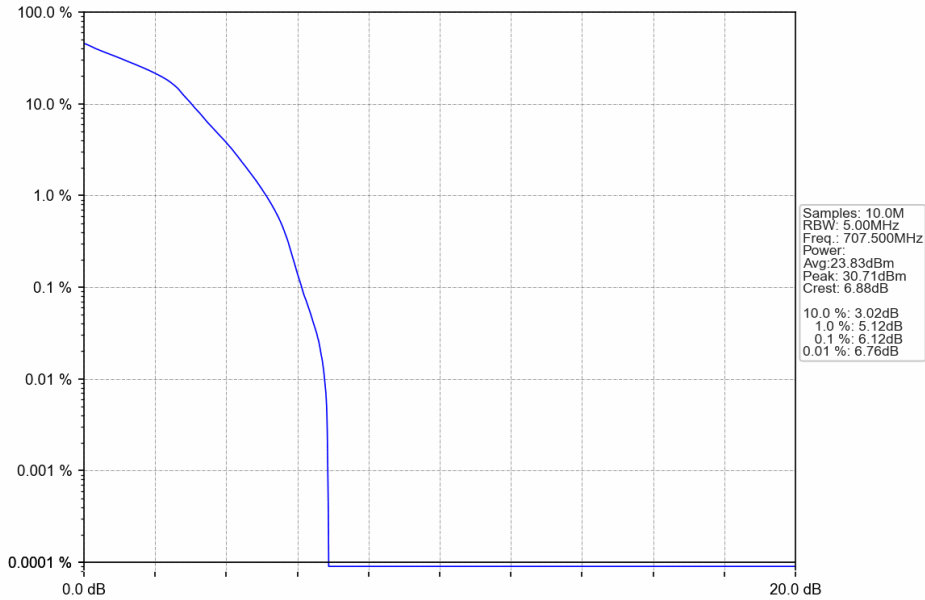
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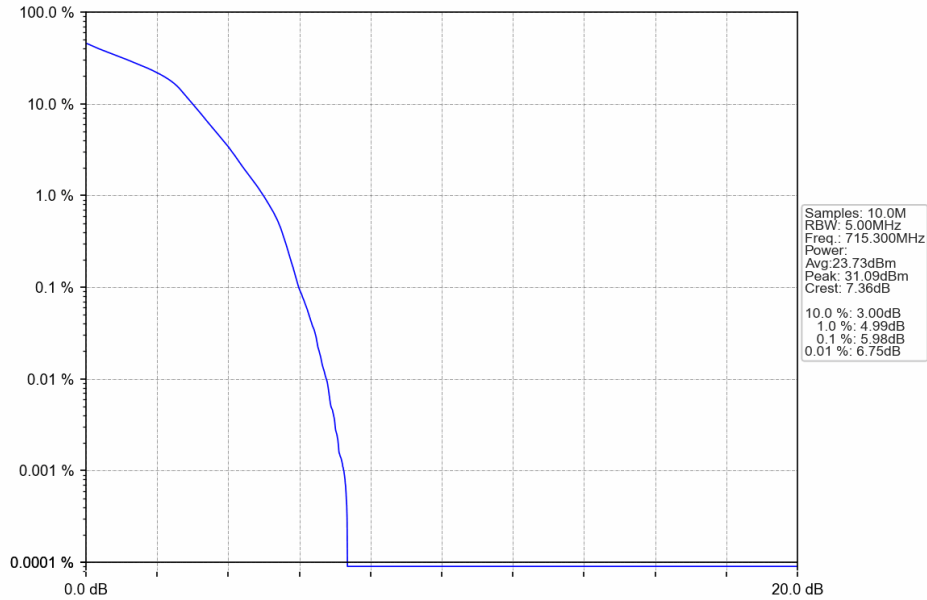
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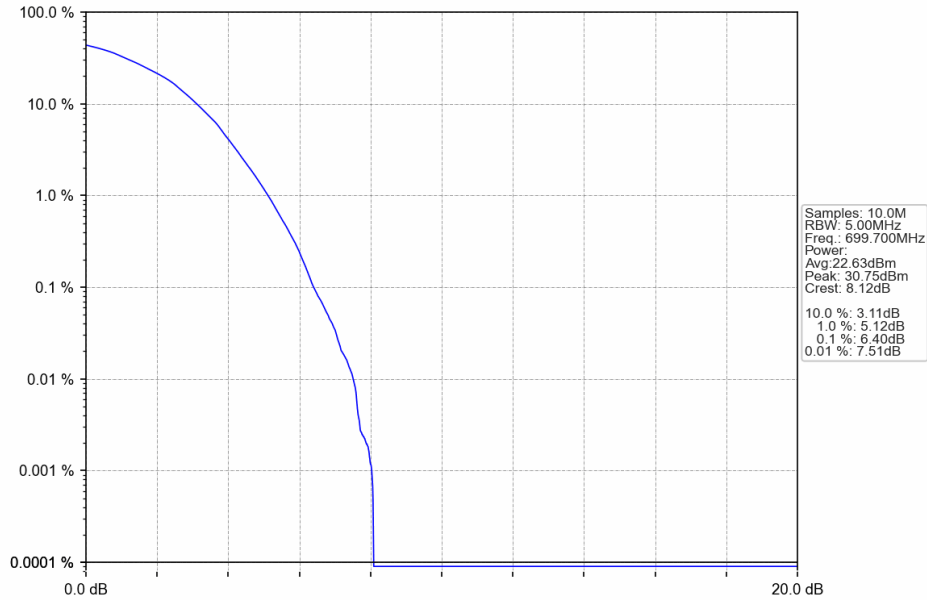
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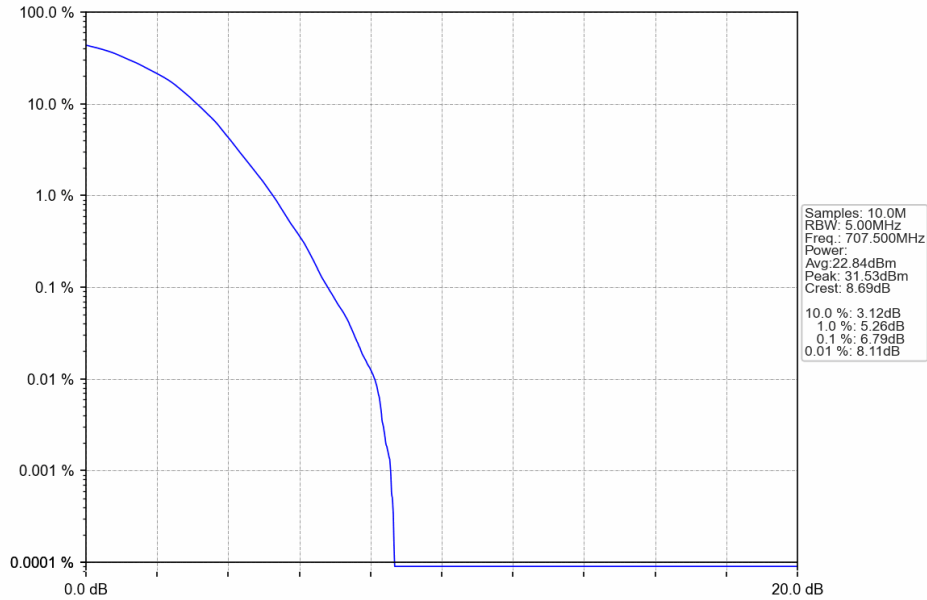
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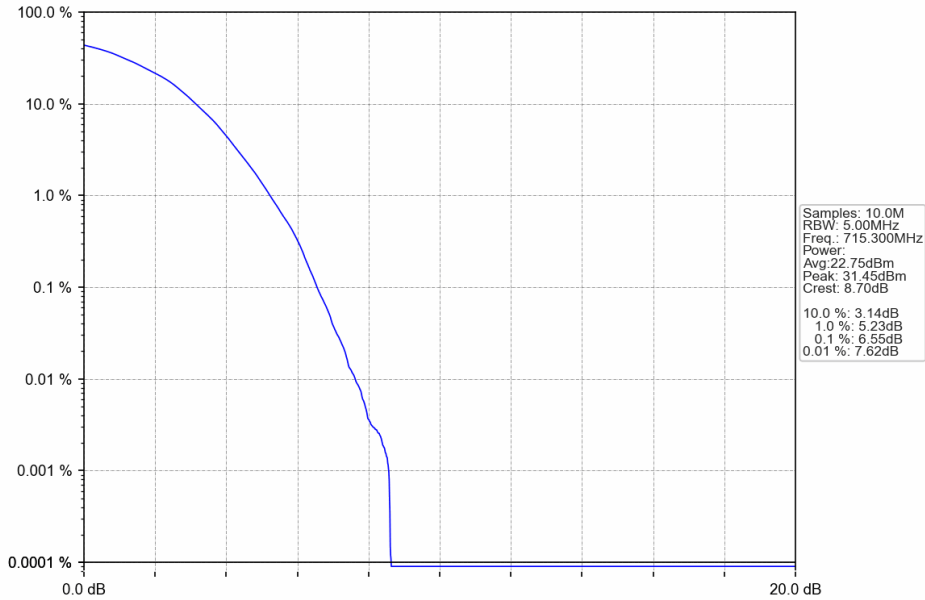
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3.2 B12_3MHz

3.2.1 Test Result

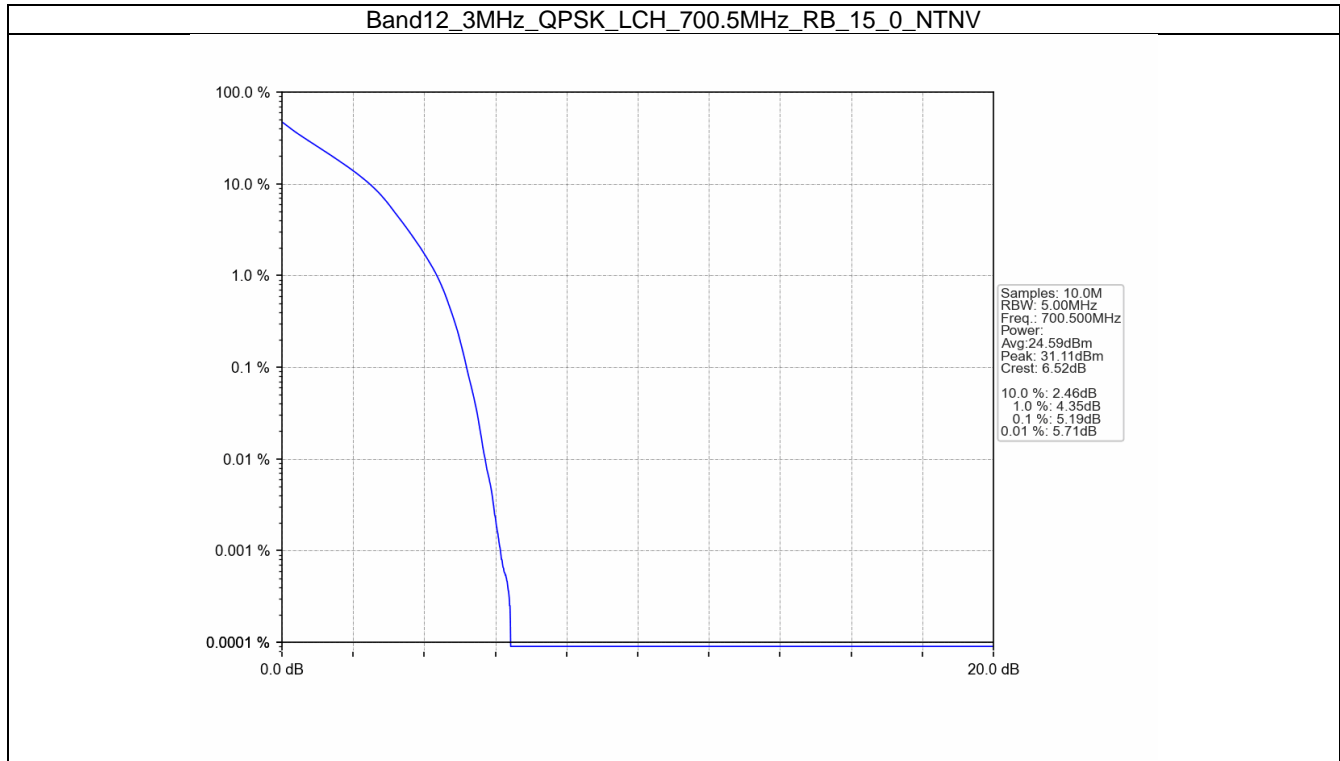
Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	5.19	<=13	Pass
	707.5	15	0	5.17	<=13	Pass
	714.5	15	0	5.13	<=13	Pass
16QAM	700.5	15	0	6.03	<=13	Pass
	707.5	15	0	6.02	<=13	Pass
	714.5	15	0	5.89	<=13	Pass
64QAM	700.5	15	0	6.66	<=13	Pass
	707.5	15	0	6.62	<=13	Pass
	714.5	15	0	6.60	<=13	Pass



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3.2.2 Test Graph



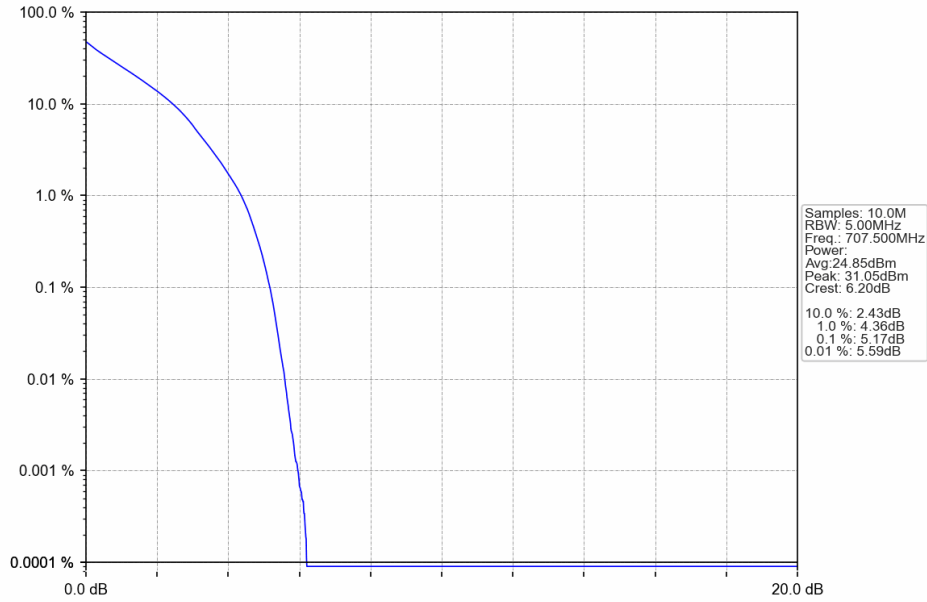
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Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



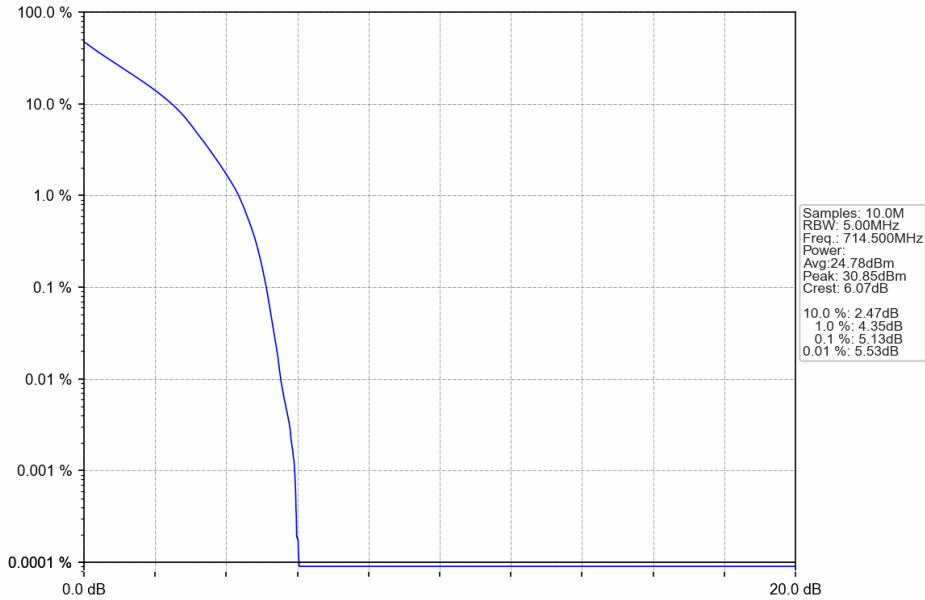
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