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# Appendix B.8

## LTE Band 5



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1. Frequency Stability

1.1 B5\_1.4MHz

1.1.1 Test Result

Band: 5 / 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	824.7	6	0	20	3.8	-21.302	-0.0258	-2.5 to 2.5	Pass	
					4.0	-11.308	-0.0137	-2.5 to 2.5	Pass	
					4.2	-9.020	-0.0109	-2.5 to 2.5	Pass	
				-30	4.0	-2.257	-0.0027	-2.5 to 2.5	Pass	
					-20	4.0	-2.671	-0.0032	-2.5 to 2.5	Pass
						4.0	-1.335	-0.0016	-2.5 to 2.5	Pass
				-10	4.0	-1.092	-0.0013	-2.5 to 2.5	Pass	
					4.0	-1.253	-0.0015	-2.5 to 2.5	Pass	
				0	4.0	3.260	0.0040	-2.5 to 2.5	Pass	
					4.0	1.977	0.0024	-2.5 to 2.5	Pass	
	10	4.0	3.483	0.0042	-2.5 to 2.5	Pass				
		4.0	5.712	0.0068	-2.5 to 2.5	Pass				
	836.5	6	0	20	3.8	5.712	0.0068	-2.5 to 2.5	Pass	
					4.0	11.621	0.0139	-2.5 to 2.5	Pass	
					4.2	15.147	0.0181	-2.5 to 2.5	Pass	
				-30	4.0	7.348	0.0088	-2.5 to 2.5	Pass	
					-20	4.0	3.329	0.0040	-2.5 to 2.5	Pass
						4.0	-1.317	-0.0016	-2.5 to 2.5	Pass
				-10	4.0	3.729	0.0045	-2.5 to 2.5	Pass	
					4.0	0.012	0.0000	-2.5 to 2.5	Pass	
				0	4.0	-2.425	-0.0029	-2.5 to 2.5	Pass	
					4.0	1.513	0.0018	-2.5 to 2.5	Pass	
	10	4.0	-0.133	-0.0002	-2.5 to 2.5	Pass				
		4.0	6.620	0.0078	-2.5 to 2.5	Pass				
	848.3	6	0	20	3.8	6.620	0.0078	-2.5 to 2.5	Pass	
					4.0	4.685	0.0055	-2.5 to 2.5	Pass	
					4.2	-0.964	-0.0011	-2.5 to 2.5	Pass	
				-30	4.0	-1.803	-0.0021	-2.5 to 2.5	Pass	
					-20	4.0	-1.039	-0.0012	-2.5 to 2.5	Pass
						4.0	-1.624	-0.0019	-2.5 to 2.5	Pass
-10				4.0	-2.559	-0.0030	-2.5 to 2.5	Pass		
				4.0	1.838	0.0022	-2.5 to 2.5	Pass		
0				4.0	4.580	0.0054	-2.5 to 2.5	Pass		
				4.0	-0.316	-0.0004	-2.5 to 2.5	Pass		
10	4.0	-2.003	-0.0024	-2.5 to 2.5	Pass					
	4.0	0.932	0.0011	-2.5 to 2.5	Pass					
16QAM	824.7	6	0	20	3.8	0.932	0.0011	-2.5 to 2.5	Pass	
					4.0	-3.857	-0.0047	-2.5 to 2.5	Pass	
					4.2	-4.197	-0.0051	-2.5 to 2.5	Pass	
				-30	4.0	-4.048	-0.0049	-2.5 to 2.5	Pass	
					-20	4.0	-2.997	-0.0036	-2.5 to 2.5	Pass
						4.0	0.900	0.0011	-2.5 to 2.5	Pass
-10	4.0	2.688	0.0033	-2.5 to 2.5	Pass					



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64QAM	836.5	6	0	10	4.0	2.658	0.0032	-2.5 to 2.5	Pass			
				30	4.0	-0.896	-0.0011	-2.5 to 2.5	Pass			
				40	4.0	2.826	0.0034	-2.5 to 2.5	Pass			
				50	4.0	0.341	0.0004	-2.5 to 2.5	Pass			
				20	3.8	4.076	0.0049	-2.5 to 2.5	Pass			
					4.0	1.623	0.0019	-2.5 to 2.5	Pass			
					4.2	-2.939	-0.0035	-2.5 to 2.5	Pass			
				-30	4.0	1.457	0.0017	-2.5 to 2.5	Pass			
				-20	4.0	1.500	0.0018	-2.5 to 2.5	Pass			
				-10	4.0	2.795	0.0033	-2.5 to 2.5	Pass			
				0	4.0	2.466	0.0029	-2.5 to 2.5	Pass			
				10	4.0	0.801	0.0010	-2.5 to 2.5	Pass			
				30	4.0	-2.985	-0.0036	-2.5 to 2.5	Pass			
				40	4.0	-2.620	-0.0031	-2.5 to 2.5	Pass			
	50	4.0	-0.970	-0.0012	-2.5 to 2.5	Pass						
	848.3	6	0	20	3.8	-3.055	-0.0036	-2.5 to 2.5	Pass			
					4.0	2.997	0.0035	-2.5 to 2.5	Pass			
					4.2	2.212	0.0026	-2.5 to 2.5	Pass			
				-30	4.0	2.264	0.0027	-2.5 to 2.5	Pass			
				-20	4.0	2.307	0.0027	-2.5 to 2.5	Pass			
				-10	4.0	2.579	0.0030	-2.5 to 2.5	Pass			
				0	4.0	1.162	0.0014	-2.5 to 2.5	Pass			
				10	4.0	0.413	0.0005	-2.5 to 2.5	Pass			
				30	4.0	-1.616	-0.0019	-2.5 to 2.5	Pass			
				40	4.0	-1.969	-0.0023	-2.5 to 2.5	Pass			
				50	4.0	-1.369	-0.0016	-2.5 to 2.5	Pass			
				824.7	6	0	20	3.8	2.214	0.0027	-2.5 to 2.5	Pass
								4.0	0.531	0.0006	-2.5 to 2.5	Pass
4.2								-2.303	-0.0028	-2.5 to 2.5	Pass	
-30	4.0	1.726	0.0021				-2.5 to 2.5	Pass				
-20	4.0	-2.959	-0.0036				-2.5 to 2.5	Pass				
-10	4.0	-1.897	-0.0023				-2.5 to 2.5	Pass				
0	4.0	-1.954	-0.0024				-2.5 to 2.5	Pass				
10	4.0	-0.023	0.0000				-2.5 to 2.5	Pass				
30	4.0	-1.205	-0.0015				-2.5 to 2.5	Pass				
40	4.0	-2.723	-0.0033				-2.5 to 2.5	Pass				
50	4.0	-1.842	-0.0022				-2.5 to 2.5	Pass				
836.5	6	0	20				3.8	-1.641	-0.0020	-2.5 to 2.5	Pass	
							4.0	-1.871	-0.0022	-2.5 to 2.5	Pass	
							4.2	-2.534	-0.0030	-2.5 to 2.5	Pass	
			-30	4.0	2.645	0.0032	-2.5 to 2.5	Pass				
			-20	4.0	-3.104	-0.0037	-2.5 to 2.5	Pass				
			-10	4.0	-1.069	-0.0013	-2.5 to 2.5	Pass				
			0	4.0	-5.408	-0.0065	-2.5 to 2.5	Pass				
			10	4.0	-1.882	-0.0022	-2.5 to 2.5	Pass				
			30	4.0	0.267	0.0003	-2.5 to 2.5	Pass				
			40	4.0	-1.425	-0.0017	-2.5 to 2.5	Pass				
			50	4.0	-5.290	-0.0063	-2.5 to 2.5	Pass				
			848.3	6	0	20	3.8	1.919	0.0023	-2.5 to 2.5	Pass	
							4.0	0.726	0.0009	-2.5 to 2.5	Pass	



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				4.2	-0.983	-0.0012	-2.5 to 2.5	Pass	
				-30	4.0	1.302	0.0015	-2.5 to 2.5	Pass
				-20	4.0	1.985	0.0023	-2.5 to 2.5	Pass
				-10	4.0	-3.073	-0.0036	-2.5 to 2.5	Pass
				0	4.0	2.042	0.0024	-2.5 to 2.5	Pass
				10	4.0	1.499	0.0018	-2.5 to 2.5	Pass
				30	4.0	1.458	0.0017	-2.5 to 2.5	Pass
				40	4.0	1.450	0.0017	-2.5 to 2.5	Pass
				50	4.0	-0.017	0.0000	-2.5 to 2.5	Pass



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1.2 B5\_3MHz

1.2.1 Test Result

Band: 5 / Bandwidth: 3MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	825.5	15	0	20	3.8	-0.487	-0.0006	-2.5 to 2.5	Pass	
					4.0	-0.738	-0.0009	-2.5 to 2.5	Pass	
					4.2	0.827	0.0010	-2.5 to 2.5	Pass	
				-30	4.0	-0.465	-0.0006	-2.5 to 2.5	Pass	
					-20	4.0	4.720	0.0057	-2.5 to 2.5	Pass
					-10	4.0	3.186	0.0039	-2.5 to 2.5	Pass
				0	4.0	0.221	0.0003	-2.5 to 2.5	Pass	
					10	4.0	0.608	0.0007	-2.5 to 2.5	Pass
					30	4.0	5.940	0.0072	-2.5 to 2.5	Pass
	40	4.0	4.048		0.0049	-2.5 to 2.5	Pass			
	50	4.0	2.747		0.0033	-2.5 to 2.5	Pass			
	836.5	15	0		20	3.8	2.536	0.0030	-2.5 to 2.5	Pass
				4.0		4.099	0.0049	-2.5 to 2.5	Pass	
				4.2		-0.805	-0.0010	-2.5 to 2.5	Pass	
				-30	4.0	-2.256	-0.0027	-2.5 to 2.5	Pass	
					-20	4.0	2.478	0.0030	-2.5 to 2.5	Pass
					-10	4.0	1.776	0.0021	-2.5 to 2.5	Pass
				0	4.0	3.633	0.0043	-2.5 to 2.5	Pass	
					10	4.0	-0.244	-0.0003	-2.5 to 2.5	Pass
					30	4.0	2.035	0.0024	-2.5 to 2.5	Pass
	40	4.0	0.800		0.0010	-2.5 to 2.5	Pass			
	50	4.0	-0.387		-0.0005	-2.5 to 2.5	Pass			
	847.5	15	0		20	3.8	4.942	0.0058	-2.5 to 2.5	Pass
				4.0		-1.395	-0.0016	-2.5 to 2.5	Pass	
				4.2		-0.745	-0.0009	-2.5 to 2.5	Pass	
				-30	4.0	0.767	0.0009	-2.5 to 2.5	Pass	
					-20	4.0	-1.082	-0.0013	-2.5 to 2.5	Pass
-10					4.0	-2.554	-0.0030	-2.5 to 2.5	Pass	
0				4.0	4.813	0.0057	-2.5 to 2.5	Pass		
				10	4.0	0.861	0.0010	-2.5 to 2.5	Pass	
				30	4.0	1.892	0.0022	-2.5 to 2.5	Pass	
	40	4.0	0.119	0.0001	-2.5 to 2.5	Pass				
	50	4.0	2.523	0.0030	-2.5 to 2.5	Pass				
	16QAM	825.5	15	0	20	3.8	-1.539	-0.0019	-2.5 to 2.5	Pass
4.0						3.121	0.0038	-2.5 to 2.5	Pass	
4.2						-2.093	-0.0025	-2.5 to 2.5	Pass	
-30					4.0	4.650	0.0056	-2.5 to 2.5	Pass	
					-20	4.0	2.156	0.0026	-2.5 to 2.5	Pass
					-10	4.0	-3.516	-0.0043	-2.5 to 2.5	Pass
0					4.0	-1.959	-0.0024	-2.5 to 2.5	Pass	
					10	4.0	-0.483	-0.0006	-2.5 to 2.5	Pass
					30	4.0	-2.621	-0.0032	-2.5 to 2.5	Pass



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	836.5	15	0	40	4.0	-2.237	-0.0027	-2.5 to 2.5	Pass
				50	4.0	-2.526	-0.0031	-2.5 to 2.5	Pass
				20	3.8	-0.056	-0.0001	-2.5 to 2.5	Pass
					4.0	0.493	0.0006	-2.5 to 2.5	Pass
					4.2	4.440	0.0053	-2.5 to 2.5	Pass
				-30	4.0	-0.998	-0.0012	-2.5 to 2.5	Pass
				-20	4.0	2.966	0.0035	-2.5 to 2.5	Pass
				-10	4.0	-1.848	-0.0022	-2.5 to 2.5	Pass
				0	4.0	2.209	0.0026	-2.5 to 2.5	Pass
				10	4.0	2.388	0.0029	-2.5 to 2.5	Pass
	30	4.0	-1.570	-0.0019	-2.5 to 2.5	Pass			
	40	4.0	0.395	0.0005	-2.5 to 2.5	Pass			
	50	4.0	0.593	0.0007	-2.5 to 2.5	Pass			
	847.5	15	0	20	3.8	1.569	0.0019	-2.5 to 2.5	Pass
					4.0	3.320	0.0039	-2.5 to 2.5	Pass
					4.2	1.922	0.0023	-2.5 to 2.5	Pass
				-30	4.0	-2.348	-0.0028	-2.5 to 2.5	Pass
				-20	4.0	0.461	0.0005	-2.5 to 2.5	Pass
				-10	4.0	-1.190	-0.0014	-2.5 to 2.5	Pass
				0	4.0	0.302	0.0004	-2.5 to 2.5	Pass
10				4.0	-3.202	-0.0038	-2.5 to 2.5	Pass	
30				4.0	-2.883	-0.0034	-2.5 to 2.5	Pass	
40				4.0	0.980	0.0012	-2.5 to 2.5	Pass	
50	4.0	2.843	0.0034	-2.5 to 2.5	Pass				
64QAM	825.5	15	0	20	3.8	0.778	0.0009	-2.5 to 2.5	Pass
					4.0	0.339	0.0004	-2.5 to 2.5	Pass
					4.2	-0.764	-0.0009	-2.5 to 2.5	Pass
				-30	4.0	-0.380	-0.0005	-2.5 to 2.5	Pass
				-20	4.0	-3.575	-0.0043	-2.5 to 2.5	Pass
				-10	4.0	-3.368	-0.0041	-2.5 to 2.5	Pass
				0	4.0	-3.242	-0.0039	-2.5 to 2.5	Pass
				10	4.0	-1.542	-0.0019	-2.5 to 2.5	Pass
				30	4.0	-0.903	-0.0011	-2.5 to 2.5	Pass
				40	4.0	-1.004	-0.0012	-2.5 to 2.5	Pass
	50	4.0	3.733	0.0045	-2.5 to 2.5	Pass			
	836.5	15	0	20	3.8	0.749	0.0009	-2.5 to 2.5	Pass
					4.0	1.431	0.0017	-2.5 to 2.5	Pass
					4.2	-1.446	-0.0017	-2.5 to 2.5	Pass
				-30	4.0	1.006	0.0012	-2.5 to 2.5	Pass
				-20	4.0	3.883	0.0046	-2.5 to 2.5	Pass
				-10	4.0	-2.784	-0.0033	-2.5 to 2.5	Pass
				0	4.0	1.727	0.0021	-2.5 to 2.5	Pass
				10	4.0	-1.450	-0.0017	-2.5 to 2.5	Pass
				30	4.0	-2.705	-0.0032	-2.5 to 2.5	Pass
40				4.0	0.434	0.0005	-2.5 to 2.5	Pass	
50	4.0	0.297	0.0004	-2.5 to 2.5	Pass				
847.5	15	0	20	3.8	-2.460	-0.0029	-2.5 to 2.5	Pass	
				4.0	0.393	0.0005	-2.5 to 2.5	Pass	
				4.2	-0.368	-0.0004	-2.5 to 2.5	Pass	
			-30	4.0	0.423	0.0005	-2.5 to 2.5	Pass	



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				-20	4.0	3.185	0.0038	-2.5 to 2.5	Pass
				-10	4.0	5.866	0.0069	-2.5 to 2.5	Pass
				0	4.0	3.188	0.0038	-2.5 to 2.5	Pass
				10	4.0	-2.070	-0.0024	-2.5 to 2.5	Pass
				30	4.0	-0.095	-0.0001	-2.5 to 2.5	Pass
				40	4.0	-3.090	-0.0036	-2.5 to 2.5	Pass
				50	4.0	3.827	0.0045	-2.5 to 2.5	Pass



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1.3 B5\_5MHz

1.3.1 Test Result

Band: 5 / Bandwidth: 5MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	826.5	25	0	20	3.8	-0.798	-0.0010	-2.5 to 2.5	Pass	
					4.0	1.046	0.0013	-2.5 to 2.5	Pass	
					4.2	0.973	0.0012	-2.5 to 2.5	Pass	
				-30	4.0	1.562	0.0019	-2.5 to 2.5	Pass	
					-20	4.0	-1.559	-0.0019	-2.5 to 2.5	Pass
						-10	4.0	1.090	0.0013	-2.5 to 2.5
				0	4.0	-0.949	-0.0011	-2.5 to 2.5	Pass	
					10	4.0	1.732	0.0021	-2.5 to 2.5	Pass
				30	4.0	-3.583	-0.0043	-2.5 to 2.5	Pass	
	40	4.0	1.632	0.0020	-2.5 to 2.5	Pass				
	50	4.0	-0.192	-0.0002	-2.5 to 2.5	Pass				
	836.5	25	0	20	3.8	5.465	0.0065	-2.5 to 2.5	Pass	
					4.0	1.261	0.0015	-2.5 to 2.5	Pass	
					4.2	4.307	0.0051	-2.5 to 2.5	Pass	
				-30	4.0	-2.204	-0.0026	-2.5 to 2.5	Pass	
					-20	4.0	4.636	0.0055	-2.5 to 2.5	Pass
						-10	4.0	0.001	0.0000	-2.5 to 2.5
				0	4.0	-2.240	-0.0027	-2.5 to 2.5	Pass	
					10	4.0	-2.021	-0.0024	-2.5 to 2.5	Pass
				30	4.0	0.517	0.0006	-2.5 to 2.5	Pass	
	40	4.0	2.243	0.0027	-2.5 to 2.5	Pass				
	50	4.0	3.932	0.0047	-2.5 to 2.5	Pass				
	846.5	25	0	20	3.8	1.990	0.0024	-2.5 to 2.5	Pass	
					4.0	-3.109	-0.0037	-2.5 to 2.5	Pass	
					4.2	-1.903	-0.0022	-2.5 to 2.5	Pass	
				-30	4.0	-0.499	-0.0006	-2.5 to 2.5	Pass	
					-20	4.0	-0.960	-0.0011	-2.5 to 2.5	Pass
-10						4.0	-1.981	-0.0023	-2.5 to 2.5	Pass
0				4.0	1.001	0.0012	-2.5 to 2.5	Pass		
				10	4.0	-0.911	-0.0011	-2.5 to 2.5	Pass	
30				4.0	-2.842	-0.0034	-2.5 to 2.5	Pass		
40	4.0	2.831	0.0033	-2.5 to 2.5	Pass					
50	4.0	-1.940	-0.0023	-2.5 to 2.5	Pass					
16QAM	826.5	25	0	20	3.8	4.294	0.0052	-2.5 to 2.5	Pass	
					4.0	2.635	0.0032	-2.5 to 2.5	Pass	
					4.2	-1.211	-0.0015	-2.5 to 2.5	Pass	
				-30	4.0	0.484	0.0006	-2.5 to 2.5	Pass	
					-20	4.0	-1.666	-0.0020	-2.5 to 2.5	Pass
						-10	4.0	-1.837	-0.0022	-2.5 to 2.5
				0	4.0	0.090	0.0001	-2.5 to 2.5	Pass	
					10	4.0	2.905	0.0035	-2.5 to 2.5	Pass
				30	4.0	4.577	0.0055	-2.5 to 2.5	Pass	



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64QAM	836.5	25	0	40	4.0	2.616	0.0032	-2.5 to 2.5	Pass			
				50	4.0	2.137	0.0026	-2.5 to 2.5	Pass			
				20	3.8	1.149	0.0014	-2.5 to 2.5	Pass			
					4.0	3.231	0.0039	-2.5 to 2.5	Pass			
					4.2	4.173	0.0050	-2.5 to 2.5	Pass			
				-30	4.0	-2.801	-0.0033	-2.5 to 2.5	Pass			
				-20	4.0	-3.300	-0.0039	-2.5 to 2.5	Pass			
				-10	4.0	2.689	0.0032	-2.5 to 2.5	Pass			
				0	4.0	-2.404	-0.0029	-2.5 to 2.5	Pass			
				10	4.0	-0.846	-0.0010	-2.5 to 2.5	Pass			
				30	4.0	-3.881	-0.0046	-2.5 to 2.5	Pass			
				40	4.0	-2.581	-0.0031	-2.5 to 2.5	Pass			
				50	4.0	0.612	0.0007	-2.5 to 2.5	Pass			
				846.5	25	0	20	3.8	-2.201	-0.0026	-2.5 to 2.5	Pass
	4.0	1.669	0.0020					-2.5 to 2.5	Pass			
	4.2	-3.493	-0.0041					-2.5 to 2.5	Pass			
	-30	4.0	-1.047				-0.0012	-2.5 to 2.5	Pass			
	-20	4.0	-0.052				-0.0001	-2.5 to 2.5	Pass			
	-10	4.0	1.851				0.0022	-2.5 to 2.5	Pass			
	0	4.0	2.487				0.0029	-2.5 to 2.5	Pass			
	10	4.0	2.515				0.0030	-2.5 to 2.5	Pass			
	30	4.0	2.104				0.0025	-2.5 to 2.5	Pass			
	40	4.0	3.601				0.0043	-2.5 to 2.5	Pass			
	50	4.0	-1.621				-0.0019	-2.5 to 2.5	Pass			
	826.5	25	0				20	3.8	4.557	0.0055	-2.5 to 2.5	Pass
								4.0	1.253	0.0015	-2.5 to 2.5	Pass
								4.2	3.878	0.0047	-2.5 to 2.5	Pass
				-30	4.0	-0.067	-0.0001	-2.5 to 2.5	Pass			
-20				4.0	4.557	0.0055	-2.5 to 2.5	Pass				
-10				4.0	-1.831	-0.0022	-2.5 to 2.5	Pass				
0				4.0	2.138	0.0026	-2.5 to 2.5	Pass				
10				4.0	-1.351	-0.0016	-2.5 to 2.5	Pass				
30				4.0	-1.468	-0.0018	-2.5 to 2.5	Pass				
40				4.0	2.482	0.0030	-2.5 to 2.5	Pass				
50				4.0	3.607	0.0044	-2.5 to 2.5	Pass				
836.5				25	0	20	3.8	2.522	0.0030	-2.5 to 2.5	Pass	
							4.0	4.027	0.0048	-2.5 to 2.5	Pass	
							4.2	3.039	0.0036	-2.5 to 2.5	Pass	
	-30	4.0	4.625			0.0055	-2.5 to 2.5	Pass				
	-20	4.0	-1.916			-0.0023	-2.5 to 2.5	Pass				
	-10	4.0	-3.502			-0.0042	-2.5 to 2.5	Pass				
	0	4.0	-0.251			-0.0003	-2.5 to 2.5	Pass				
	10	4.0	-2.437			-0.0029	-2.5 to 2.5	Pass				
	30	4.0	1.263			0.0015	-2.5 to 2.5	Pass				
	40	4.0	-3.474			-0.0042	-2.5 to 2.5	Pass				
	50	4.0	0.673			0.0008	-2.5 to 2.5	Pass				
	846.5	25	0			20	3.8	2.971	0.0035	-2.5 to 2.5	Pass	
							4.0	-4.250	-0.0050	-2.5 to 2.5	Pass	
							4.2	-3.403	-0.0040	-2.5 to 2.5	Pass	
-30				4.0	0.024	0.0000	-2.5 to 2.5	Pass				



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				-20	4.0	2.379	0.0028	-2.5 to 2.5	Pass
				-10	4.0	0.597	0.0007	-2.5 to 2.5	Pass
				0	4.0	2.916	0.0034	-2.5 to 2.5	Pass
				10	4.0	-3.033	-0.0036	-2.5 to 2.5	Pass
				30	4.0	-1.057	-0.0012	-2.5 to 2.5	Pass
				40	4.0	2.556	0.0030	-2.5 to 2.5	Pass
				50	4.0	4.097	0.0048	-2.5 to 2.5	Pass



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1.4 B5\_10MHz

1.4.1 Test Result

Band: 5 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	829	50	0	20	3.8	0.012	0.0000	-2.5 to 2.5	Pass
					4.0	-0.301	-0.0004	-2.5 to 2.5	Pass
					4.2	2.436	0.0029	-2.5 to 2.5	Pass
				-30	4.0	3.148	0.0038	-2.5 to 2.5	Pass
				-20	4.0	2.683	0.0032	-2.5 to 2.5	Pass
				-10	4.0	1.487	0.0018	-2.5 to 2.5	Pass
				0	4.0	0.493	0.0006	-2.5 to 2.5	Pass
				10	4.0	-2.178	-0.0026	-2.5 to 2.5	Pass
				30	4.0	0.901	0.0011	-2.5 to 2.5	Pass
				40	4.0	-1.095	-0.0013	-2.5 to 2.5	Pass
	50	4.0	-0.550	-0.0007	-2.5 to 2.5	Pass			
	836.5	50	0	20	3.8	-1.076	-0.0013	-2.5 to 2.5	Pass
					4.0	1.600	0.0019	-2.5 to 2.5	Pass
					4.2	2.685	0.0032	-2.5 to 2.5	Pass
				-30	4.0	1.828	0.0022	-2.5 to 2.5	Pass
				-20	4.0	1.261	0.0015	-2.5 to 2.5	Pass
				-10	4.0	3.337	0.0040	-2.5 to 2.5	Pass
				0	4.0	2.839	0.0034	-2.5 to 2.5	Pass
				10	4.0	0.249	0.0003	-2.5 to 2.5	Pass
				30	4.0	2.617	0.0031	-2.5 to 2.5	Pass
				40	4.0	-2.634	-0.0031	-2.5 to 2.5	Pass
	50	4.0	3.146	0.0038	-2.5 to 2.5	Pass			
	844	50	0	20	3.8	-1.958	-0.0023	-2.5 to 2.5	Pass
					4.0	-1.208	-0.0014	-2.5 to 2.5	Pass
					4.2	-2.028	-0.0024	-2.5 to 2.5	Pass
				-30	4.0	-0.179	-0.0002	-2.5 to 2.5	Pass
				-20	4.0	1.512	0.0018	-2.5 to 2.5	Pass
				-10	4.0	0.806	0.0010	-2.5 to 2.5	Pass
				0	4.0	-0.275	-0.0003	-2.5 to 2.5	Pass
				10	4.0	-1.427	-0.0017	-2.5 to 2.5	Pass
30				4.0	-2.764	-0.0033	-2.5 to 2.5	Pass	
40				4.0	-3.205	-0.0038	-2.5 to 2.5	Pass	
50	4.0	2.725	0.0032	-2.5 to 2.5	Pass				
16QAM	829	50	0	20	3.8	-0.750	-0.0009	-2.5 to 2.5	Pass
					4.0	0.994	0.0012	-2.5 to 2.5	Pass
					4.2	0.869	0.0010	-2.5 to 2.5	Pass
				-30	4.0	-2.846	-0.0034	-2.5 to 2.5	Pass
				-20	4.0	4.932	0.0059	-2.5 to 2.5	Pass
				-10	4.0	-2.876	-0.0035	-2.5 to 2.5	Pass
				0	4.0	-2.327	-0.0028	-2.5 to 2.5	Pass
				10	4.0	5.437	0.0066	-2.5 to 2.5	Pass
				30	4.0	4.222	0.0051	-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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64QAM	836.5	50	0	40	4.0	4.175	0.0050	-2.5 to 2.5	Pass			
				50	4.0	4.319	0.0052	-2.5 to 2.5	Pass			
				20	3.8	1.557	0.0019	-2.5 to 2.5	Pass			
					4.0	-2.864	-0.0034	-2.5 to 2.5	Pass			
					4.2	-2.176	-0.0026	-2.5 to 2.5	Pass			
				-30	4.0	-1.431	-0.0017	-2.5 to 2.5	Pass			
				-20	4.0	-1.311	-0.0016	-2.5 to 2.5	Pass			
				-10	4.0	0.984	0.0012	-2.5 to 2.5	Pass			
				0	4.0	2.752	0.0033	-2.5 to 2.5	Pass			
				10	4.0	-2.774	-0.0033	-2.5 to 2.5	Pass			
				30	4.0	0.501	0.0006	-2.5 to 2.5	Pass			
				40	4.0	2.652	0.0032	-2.5 to 2.5	Pass			
				50	4.0	-3.522	-0.0042	-2.5 to 2.5	Pass			
				844	50	0	20	3.8	-0.252	-0.0003	-2.5 to 2.5	Pass
	4.0	-3.238	-0.0038					-2.5 to 2.5	Pass			
	4.2	3.190	0.0038					-2.5 to 2.5	Pass			
	-30	4.0	2.285				0.0027	-2.5 to 2.5	Pass			
	-20	4.0	1.272				0.0015	-2.5 to 2.5	Pass			
	-10	4.0	0.775				0.0009	-2.5 to 2.5	Pass			
	0	4.0	-2.208				-0.0026	-2.5 to 2.5	Pass			
	10	4.0	-0.847				-0.0010	-2.5 to 2.5	Pass			
	30	4.0	0.663				0.0008	-2.5 to 2.5	Pass			
	40	4.0	-1.619				-0.0019	-2.5 to 2.5	Pass			
	50	4.0	-2.592				-0.0031	-2.5 to 2.5	Pass			
	64QAM	829	50				0	20	3.8	-3.467	-0.0042	-2.5 to 2.5
				4.0	4.444	0.0054			-2.5 to 2.5	Pass		
4.2				3.033	0.0037	-2.5 to 2.5			Pass			
-30				4.0	4.926	0.0059		-2.5 to 2.5	Pass			
-20				4.0	-1.268	-0.0015		-2.5 to 2.5	Pass			
-10				4.0	-2.412	-0.0029		-2.5 to 2.5	Pass			
0				4.0	-1.501	-0.0018		-2.5 to 2.5	Pass			
10				4.0	0.595	0.0007		-2.5 to 2.5	Pass			
30				4.0	-5.238	-0.0063		-2.5 to 2.5	Pass			
40				4.0	-3.635	-0.0044		-2.5 to 2.5	Pass			
50				4.0	-1.887	-0.0023		-2.5 to 2.5	Pass			
836.5				50	0	20		3.8	3.444	0.0041	-2.5 to 2.5	Pass
								4.0	2.525	0.0030	-2.5 to 2.5	Pass
								4.2	-0.923	-0.0011	-2.5 to 2.5	Pass
		-30	4.0			1.027	0.0012	-2.5 to 2.5	Pass			
		-20	4.0			-3.749	-0.0045	-2.5 to 2.5	Pass			
		-10	4.0			2.571	0.0031	-2.5 to 2.5	Pass			
		0	4.0			1.298	0.0016	-2.5 to 2.5	Pass			
		10	4.0			1.933	0.0023	-2.5 to 2.5	Pass			
		30	4.0			-3.835	-0.0046	-2.5 to 2.5	Pass			
		40	4.0			0.602	0.0007	-2.5 to 2.5	Pass			
		50	4.0			-2.284	-0.0027	-2.5 to 2.5	Pass			
		844	50			0	20	3.8	-0.732	-0.0009	-2.5 to 2.5	Pass
4.0				-3.038	-0.0036			-2.5 to 2.5	Pass			
4.2				-2.495	-0.0030			-2.5 to 2.5	Pass			
-30				4.0	-3.781		-0.0045	-2.5 to 2.5	Pass			



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				-20	4.0	-1.137	-0.0013	-2.5 to 2.5	Pass
				-10	4.0	-0.574	-0.0007	-2.5 to 2.5	Pass
				0	4.0	2.255	0.0027	-2.5 to 2.5	Pass
				10	4.0	1.664	0.0020	-2.5 to 2.5	Pass
				30	4.0	1.546	0.0018	-2.5 to 2.5	Pass
				40	4.0	-3.675	-0.0044	-2.5 to 2.5	Pass
				50	4.0	-0.656	-0.0008	-2.5 to 2.5	Pass



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2. 99% & 26dB Bandwidth

2.1 Band5\_OBW

2.1.1 Test Result

Band: 5 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.101	/	Pass
		836.5	6	0	1.107	/	Pass
		848.3	6	0	1.097	/	Pass
	16QAM	824.7	6	0	1.100	/	Pass
		836.5	6	0	1.108	/	Pass
		848.3	6	0	1.112	/	Pass
	64QAM	824.7	6	0	1.109	/	Pass
		836.5	6	0	1.103	/	Pass
		848.3	6	0	1.101	/	Pass
3	QPSK	825.5	15	0	2.735	/	Pass
		836.5	15	0	2.729	/	Pass
		847.5	15	0	2.742	/	Pass
	16QAM	825.5	15	0	2.755	/	Pass
		836.5	15	0	2.733	/	Pass
		847.5	15	0	2.743	/	Pass
	64QAM	825.5	15	0	2.738	/	Pass
		836.5	15	0	2.726	/	Pass
		847.5	15	0	2.732	/	Pass
5	QPSK	826.5	25	0	4.568	/	Pass
		836.5	25	0	4.538	/	Pass
		846.5	25	0	4.542	/	Pass
	16QAM	826.5	25	0	4.540	/	Pass
		836.5	25	0	4.567	/	Pass
		846.5	25	0	4.561	/	Pass
	64QAM	826.5	25	0	4.548	/	Pass
		836.5	25	0	4.560	/	Pass
		846.5	25	0	4.541	/	Pass
10	QPSK	829	50	0	9.034	/	Pass
		836.5	50	0	9.031	/	Pass
		844	50	0	9.017	/	Pass
	16QAM	829	50	0	9.022	/	Pass
		836.5	50	0	9.035	/	Pass
		844	50	0	8.998	/	Pass
	64QAM	829	50	0	9.044	/	Pass
		836.5	50	0	9.027	/	Pass
		844	50	0	9.059	/	Pass

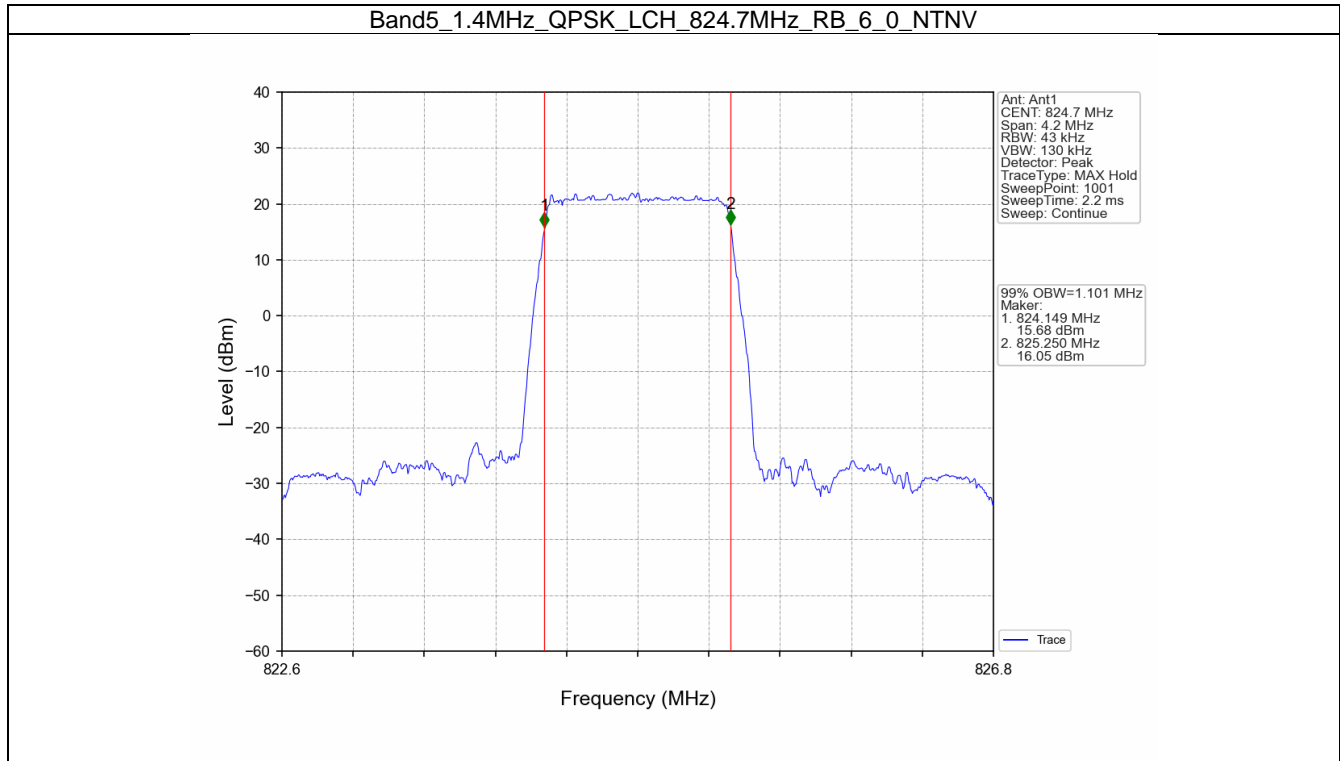


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2.1.2 Test Graph



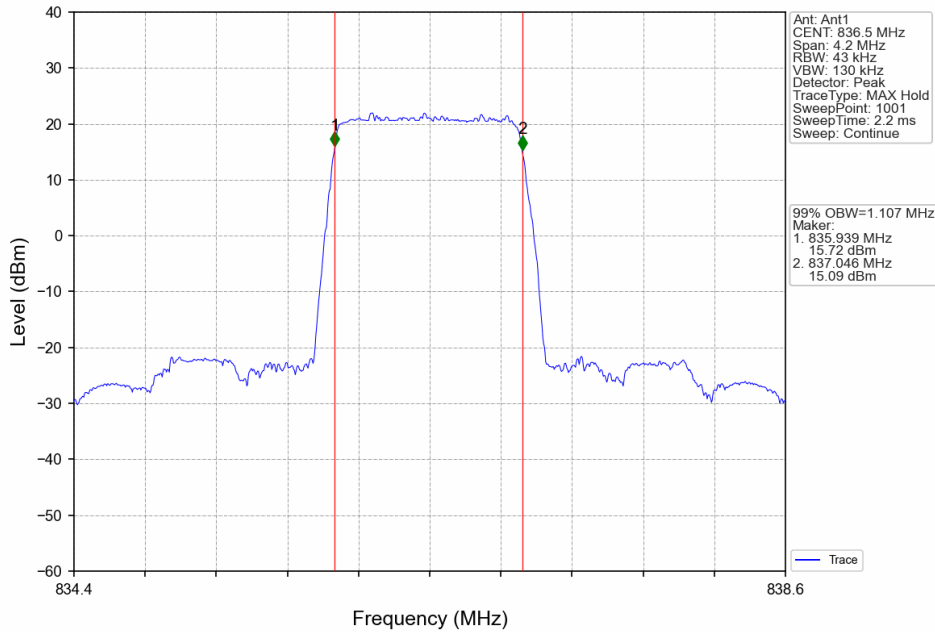
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Band5\_1.4MHz\_QPSK\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



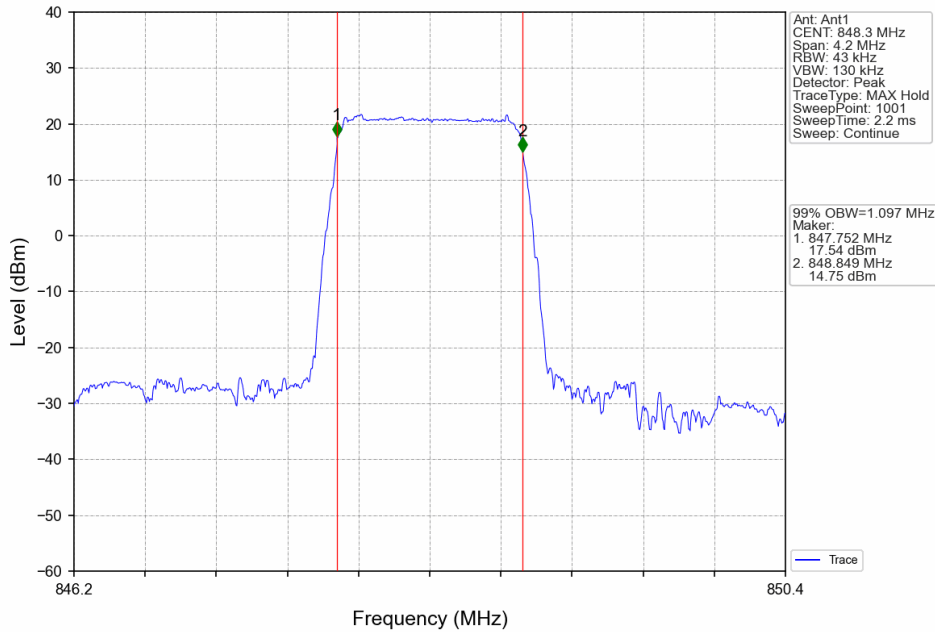
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Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV

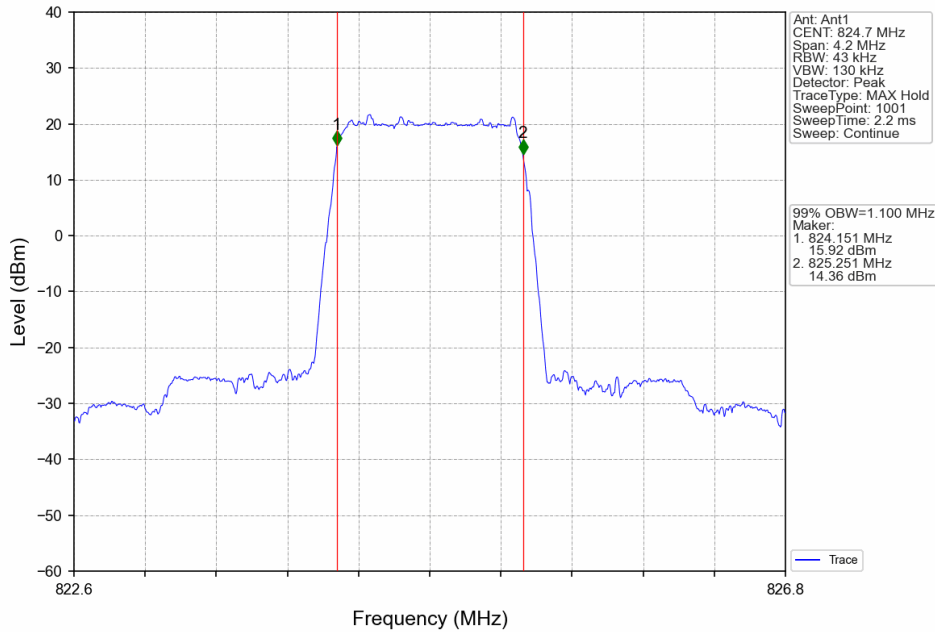


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Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV

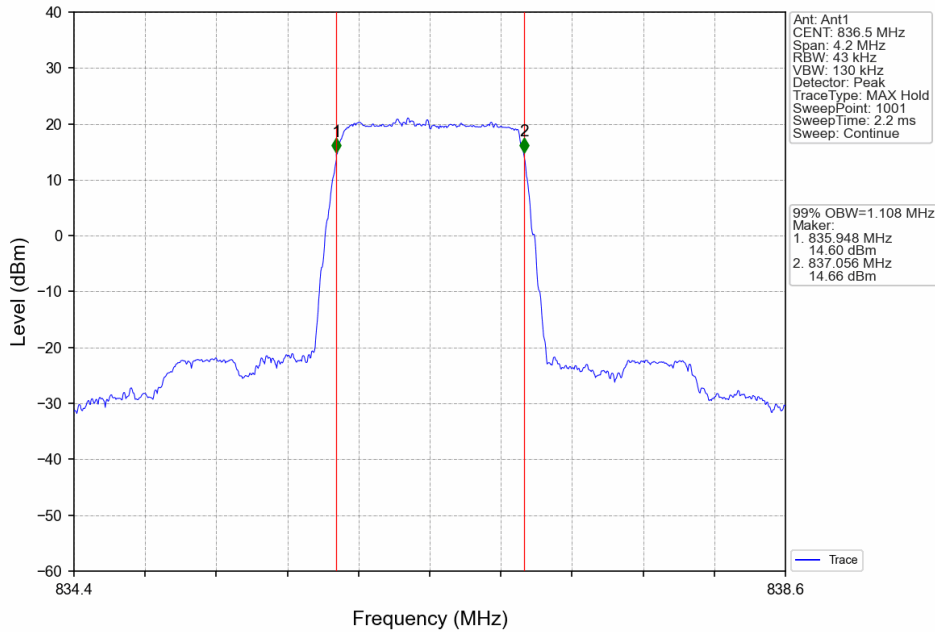


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Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



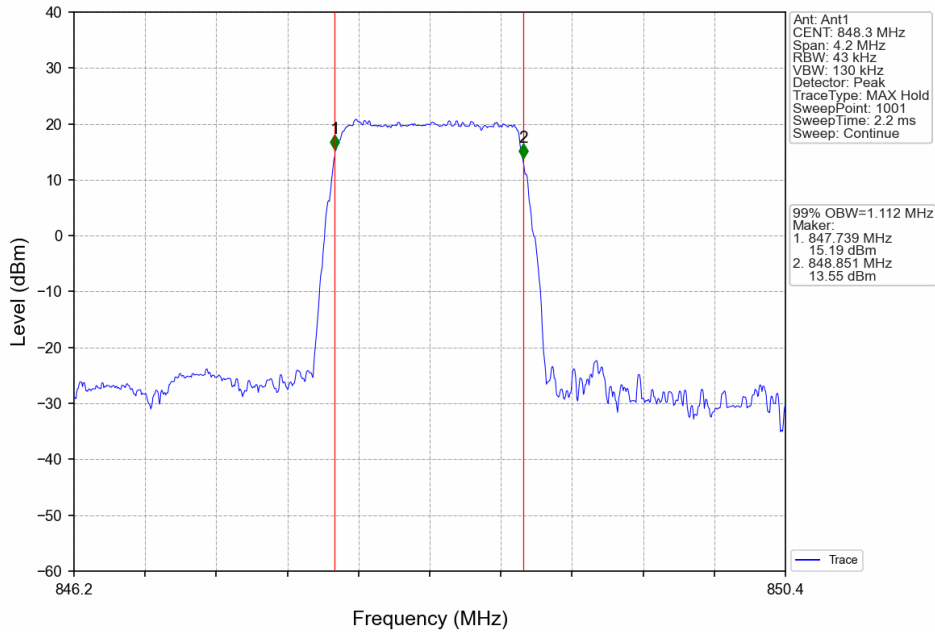
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Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV

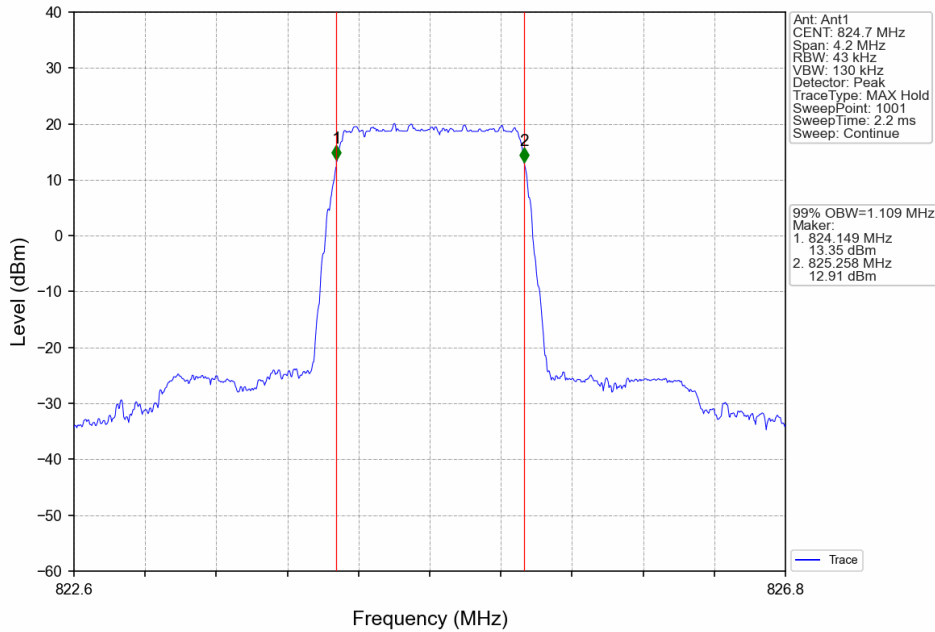


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Band5\_1.4MHz\_64QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV

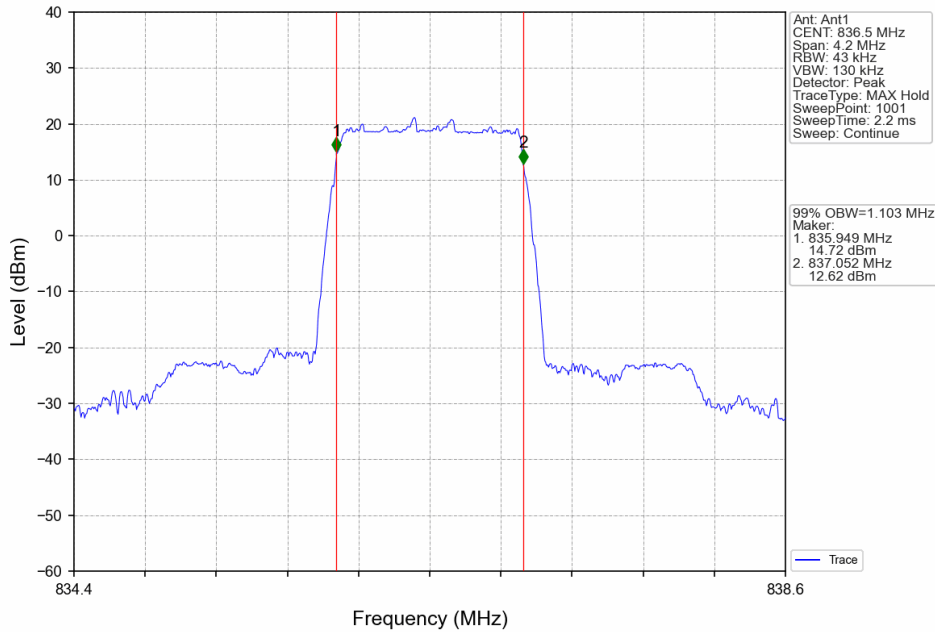


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Band5\_1.4MHz\_64QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV

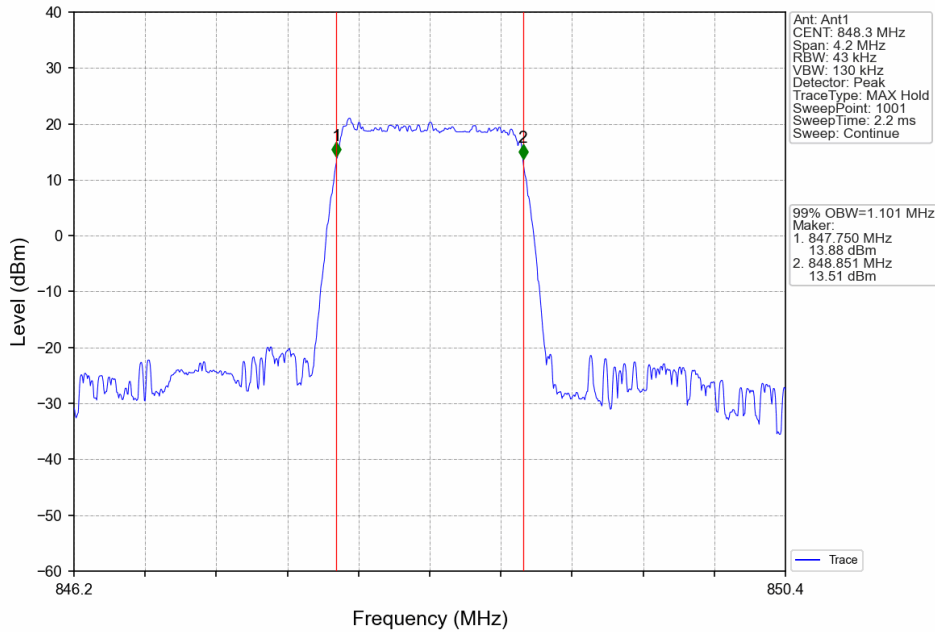


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Band5\_1.4MHz\_64QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



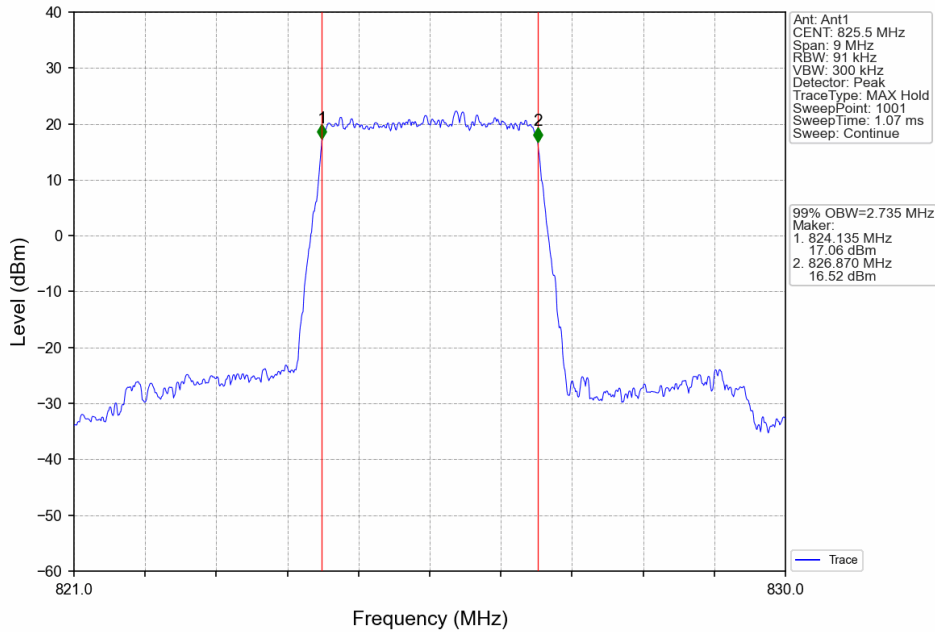
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Band5\_3MHz\_QPSK\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



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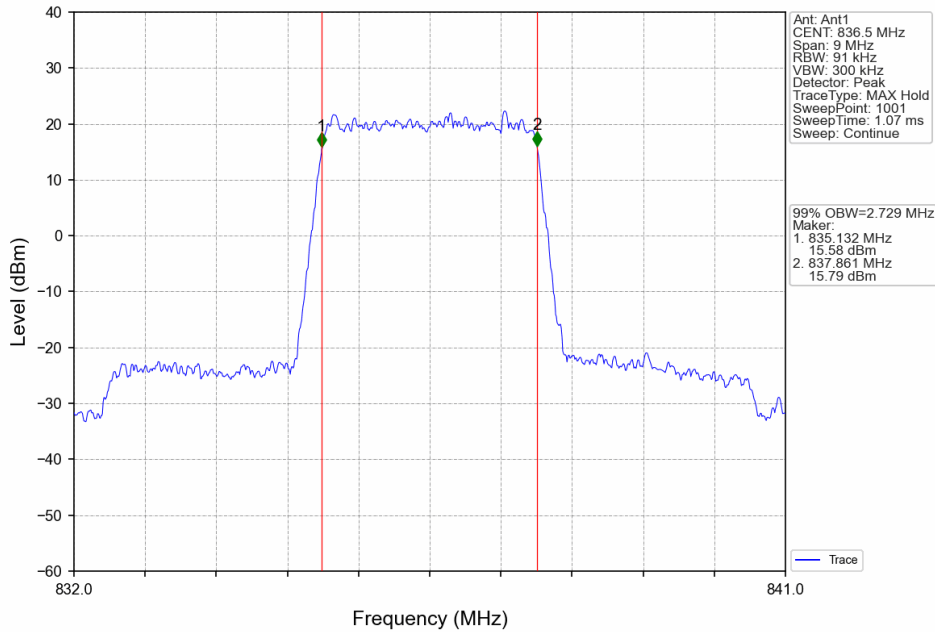
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Band5\_3MHz\_QPSK\_MCH\_836.5MHz\_RB\_15\_0\_NTNV

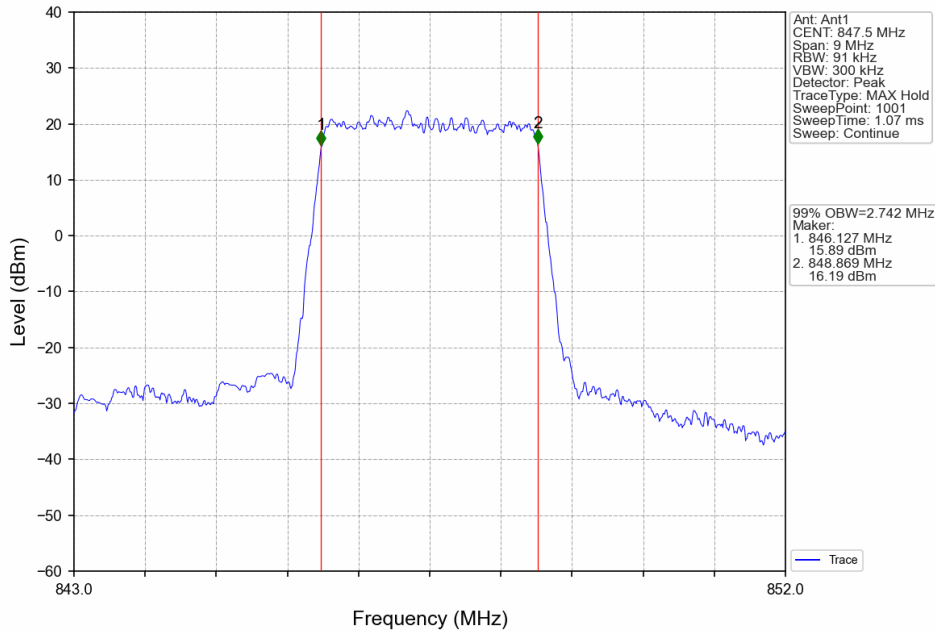


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Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



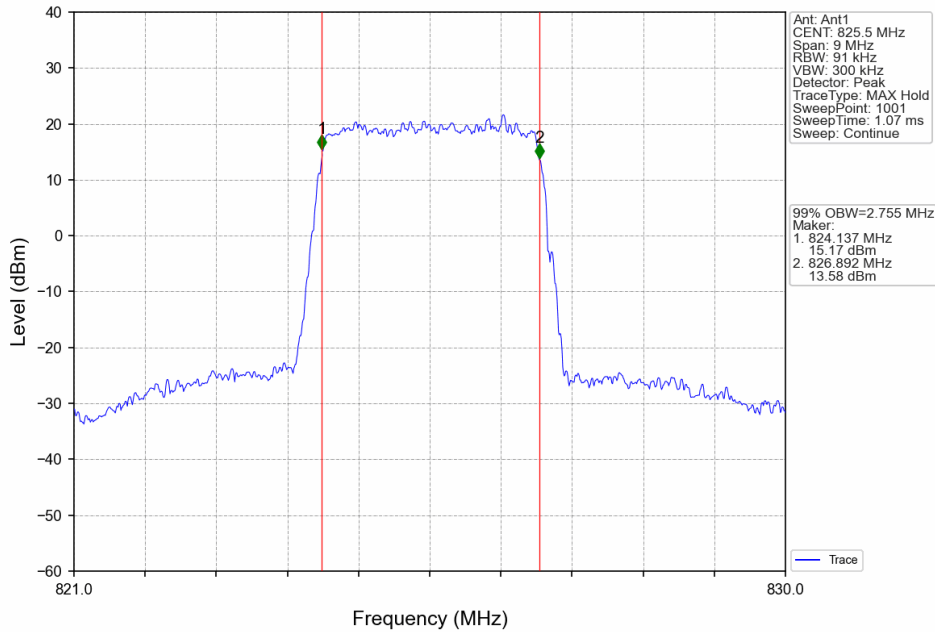
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Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



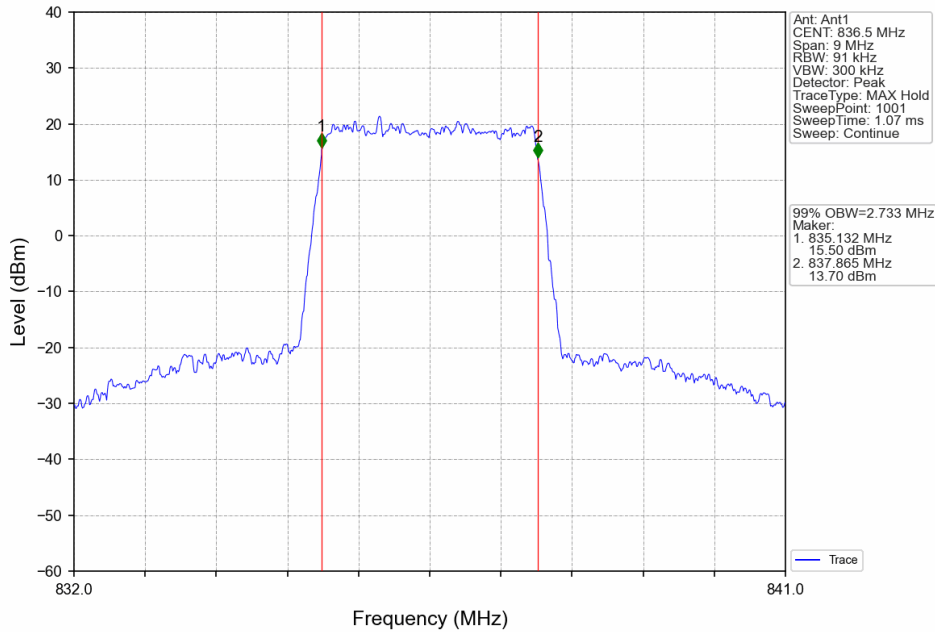
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Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



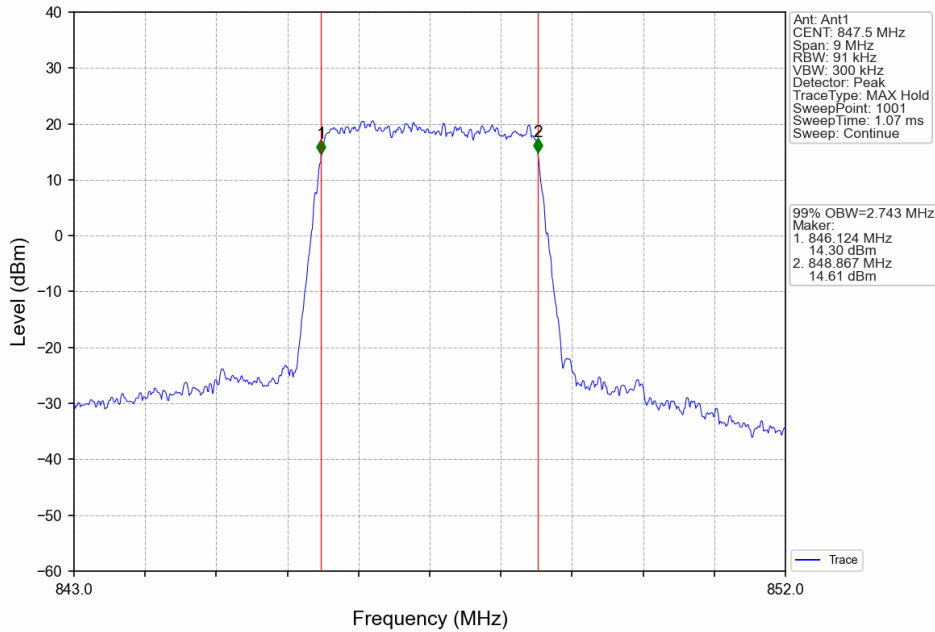
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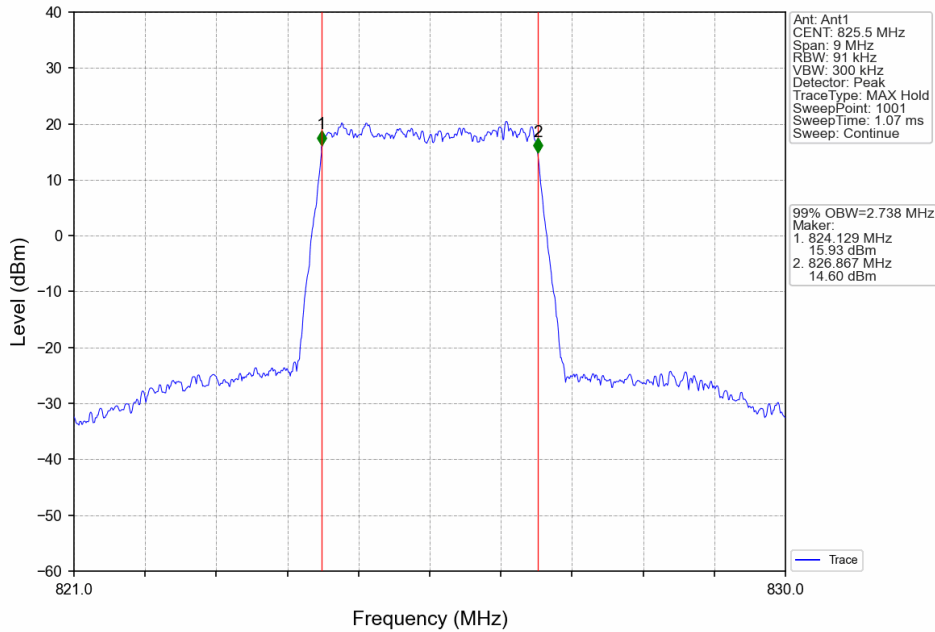
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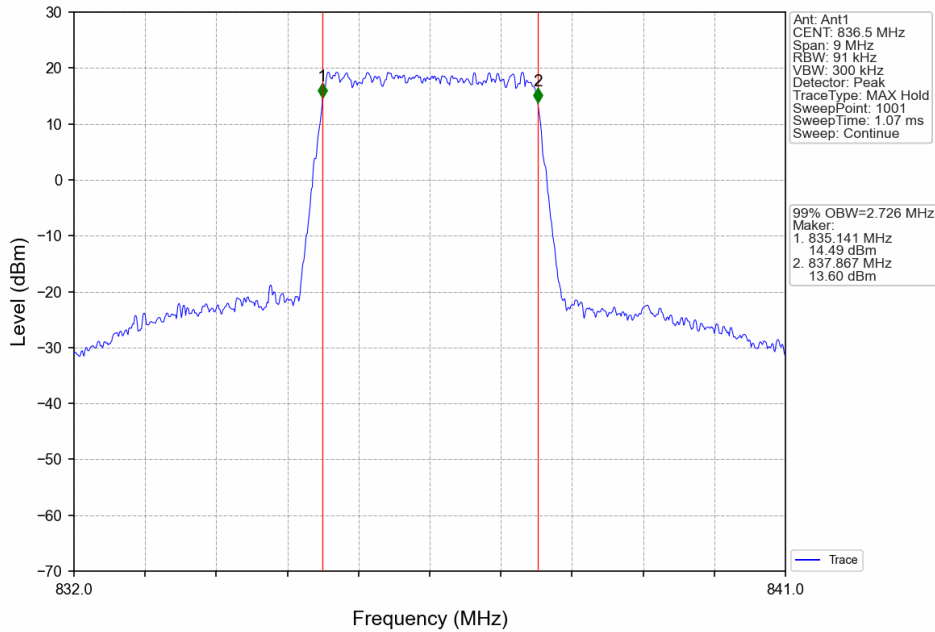


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Band5\_3MHz\_64QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



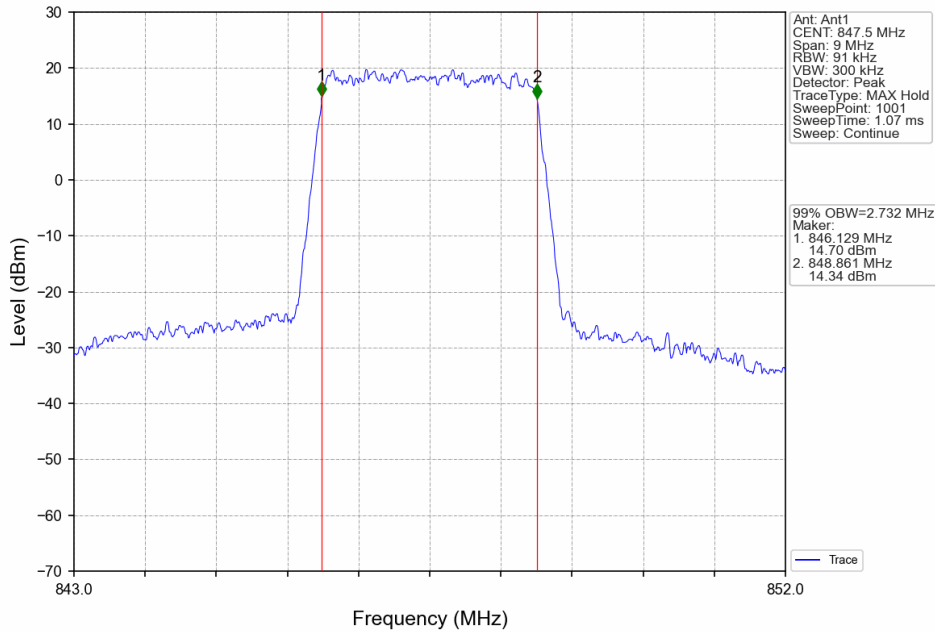
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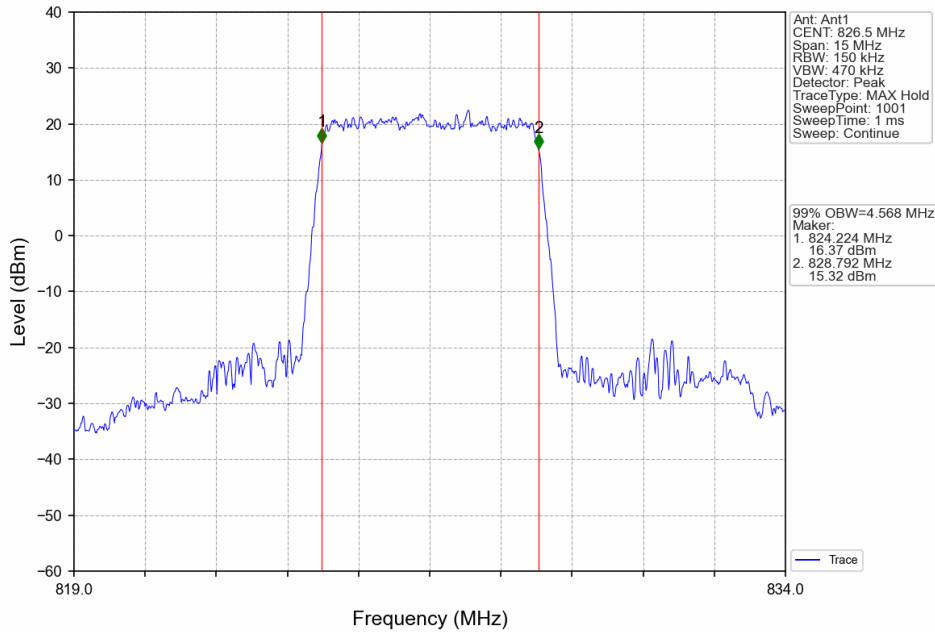
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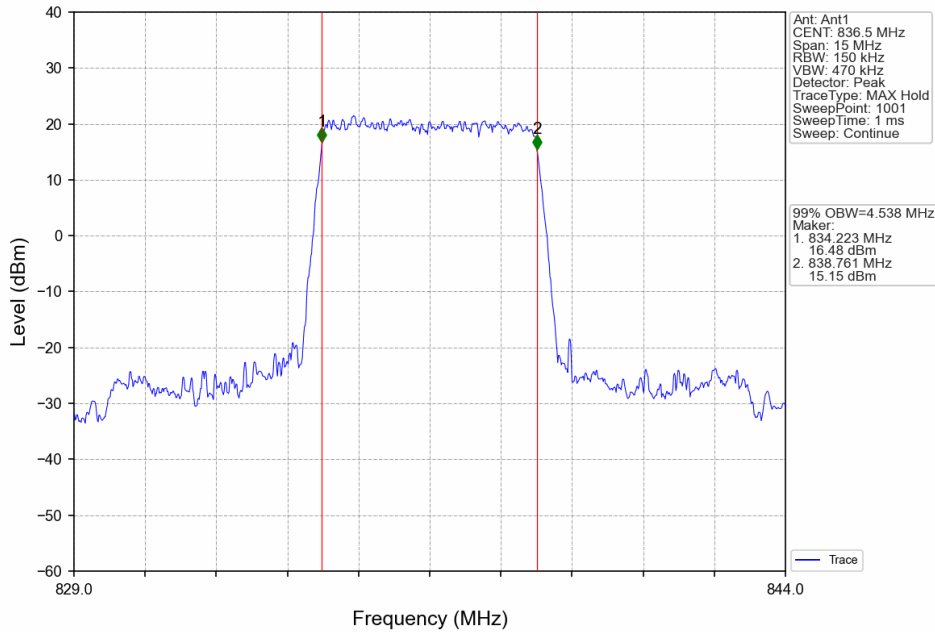
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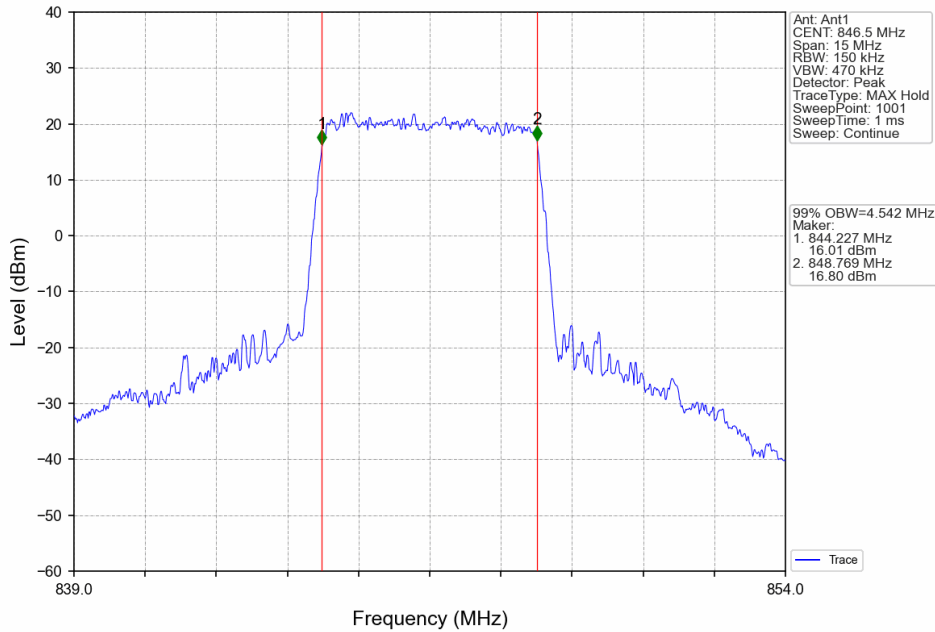


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Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



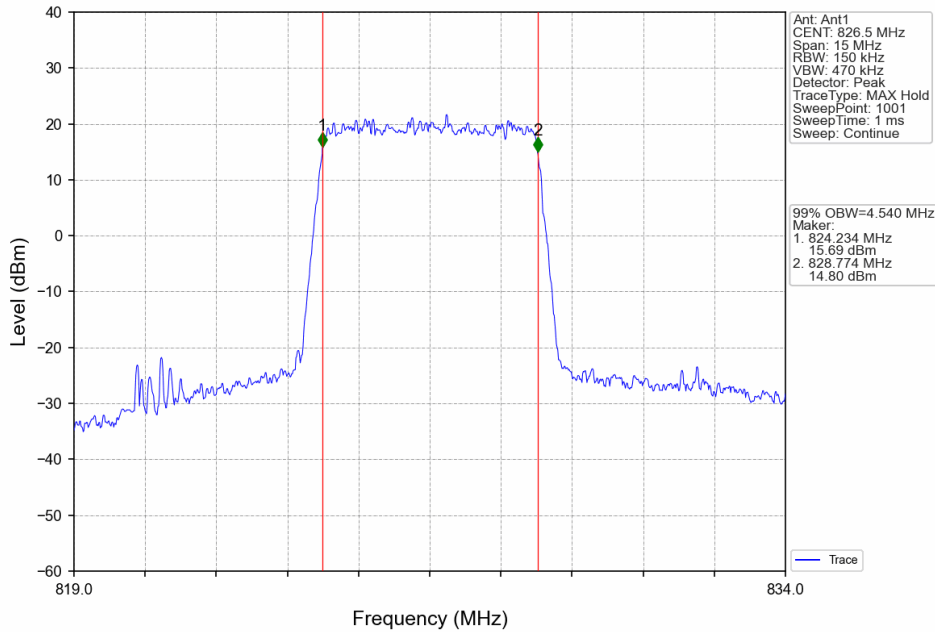
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Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



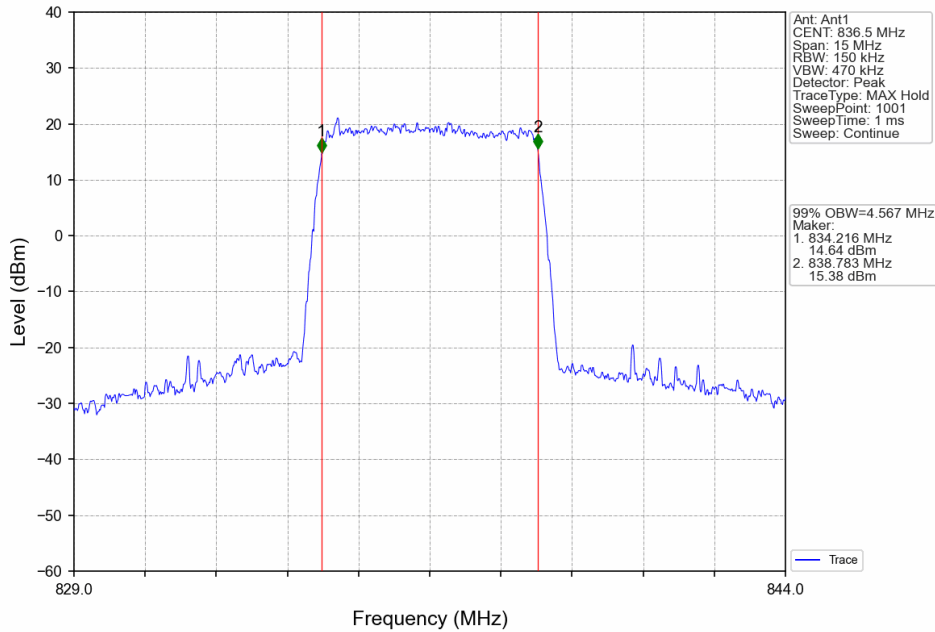
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Band5\_5MHz\_16QAM\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



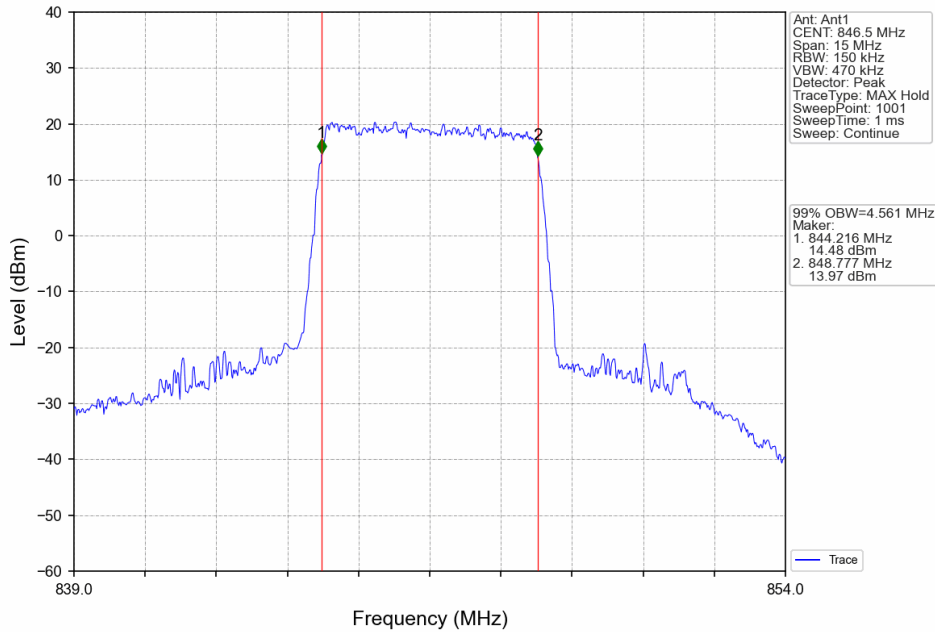
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Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



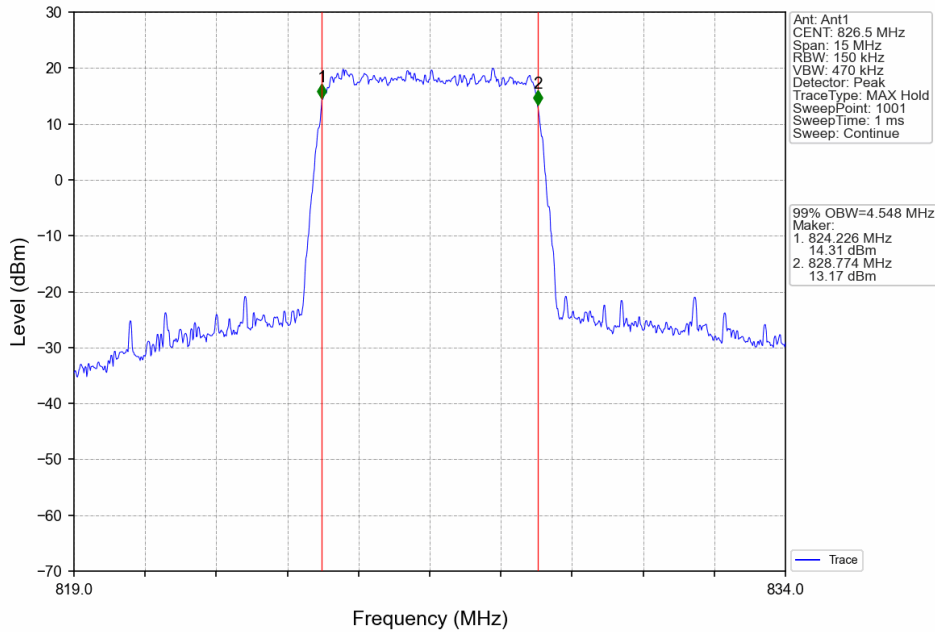
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Band5\_5MHz\_64QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV

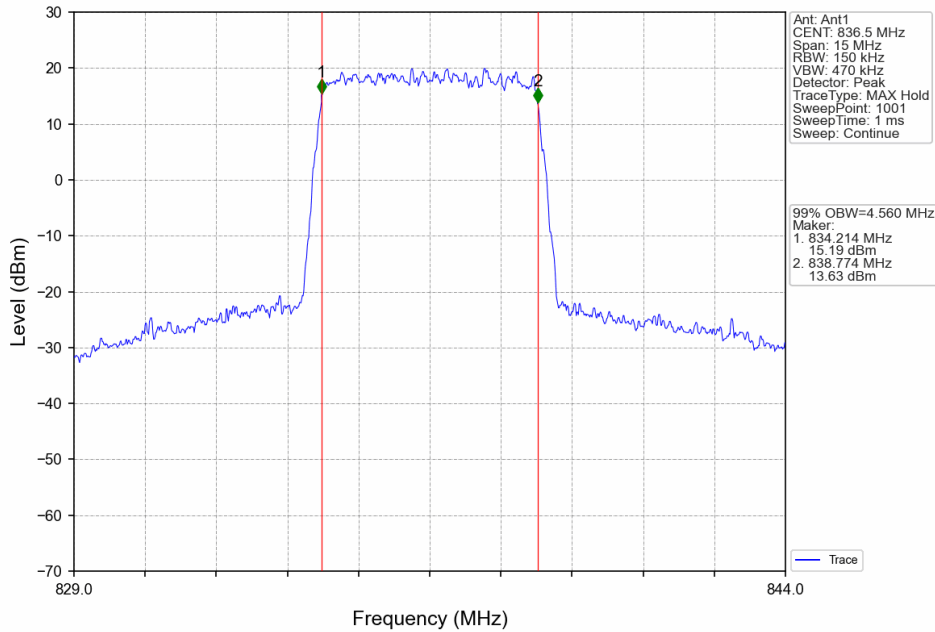


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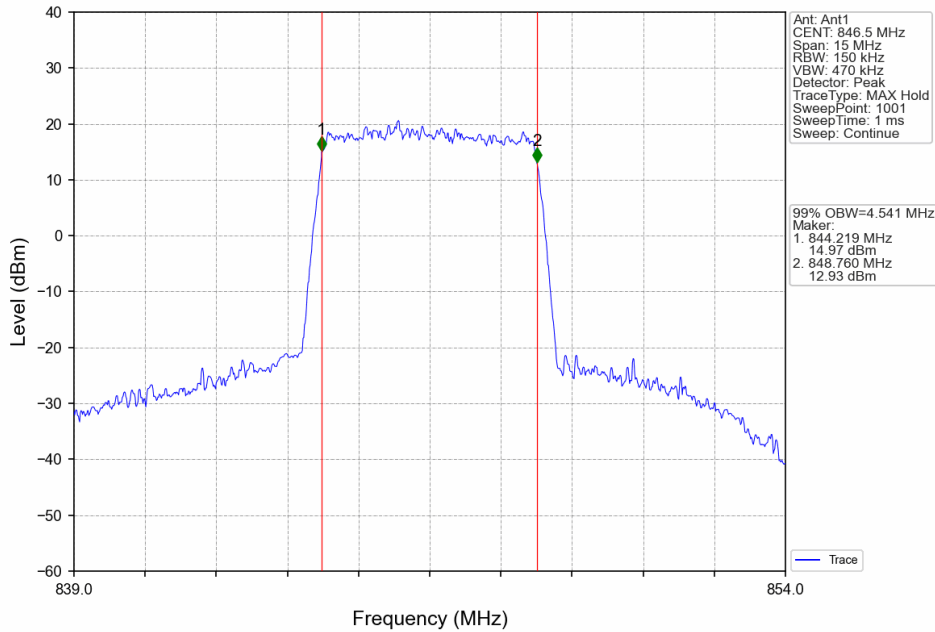
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Band5\_5MHz\_64QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV

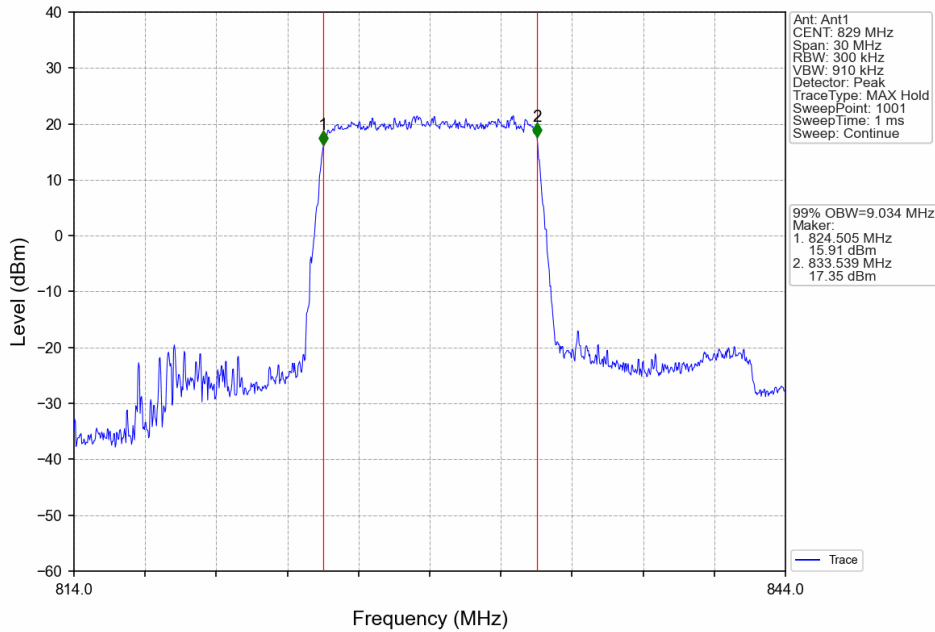


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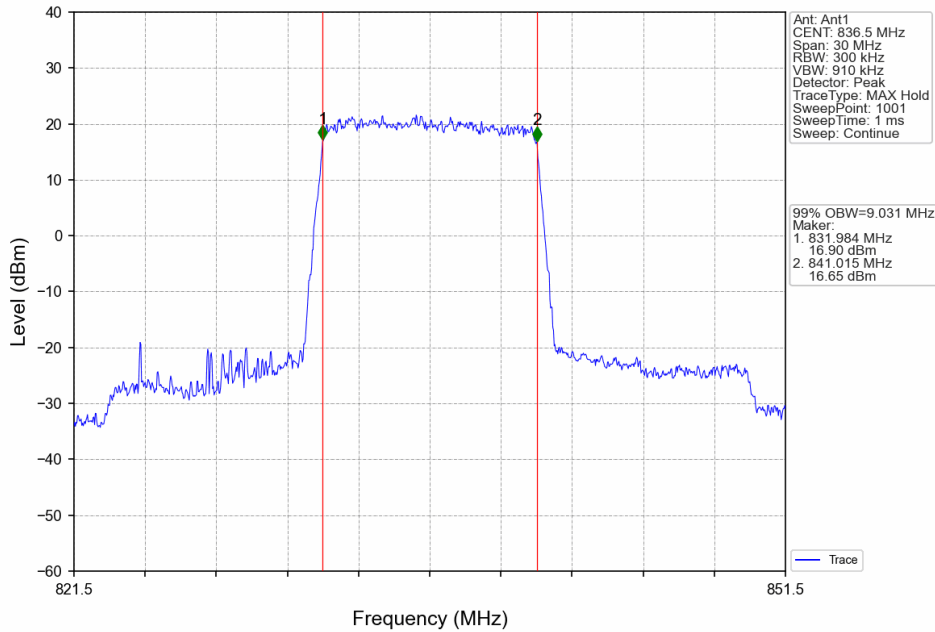
Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_50\_0\_NTNV



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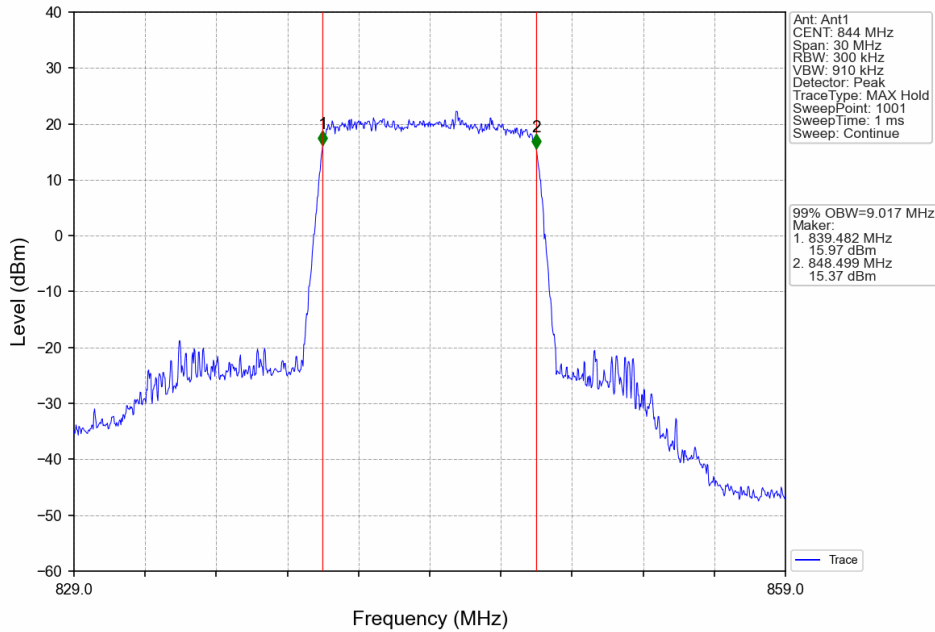


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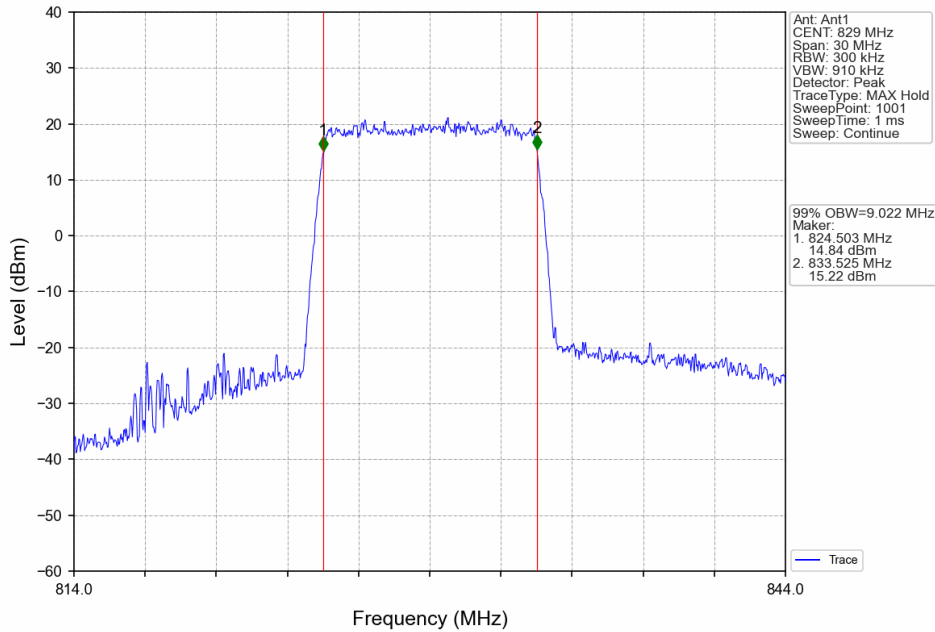


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Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



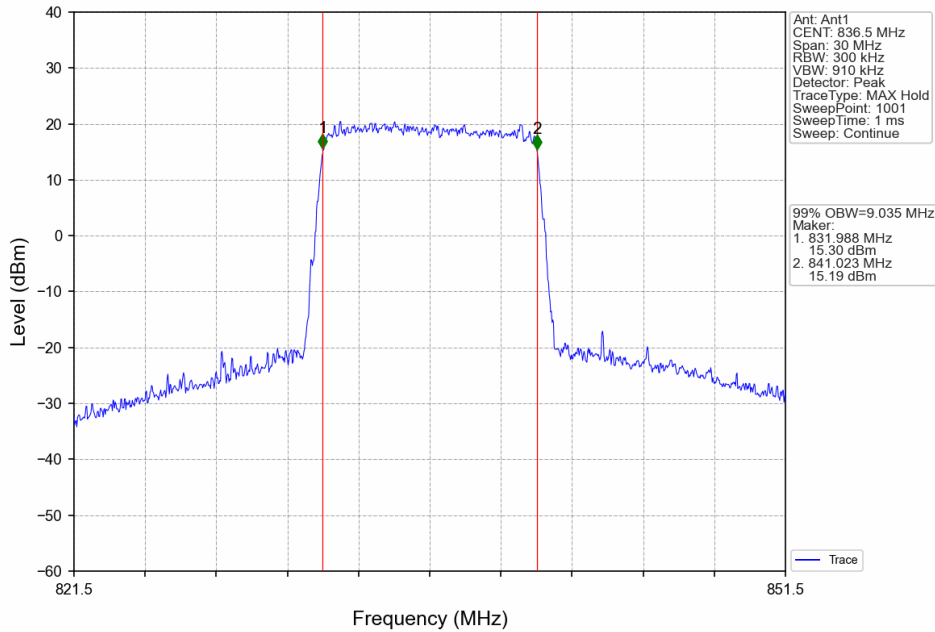
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Band5\_10MHz\_16QAM\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



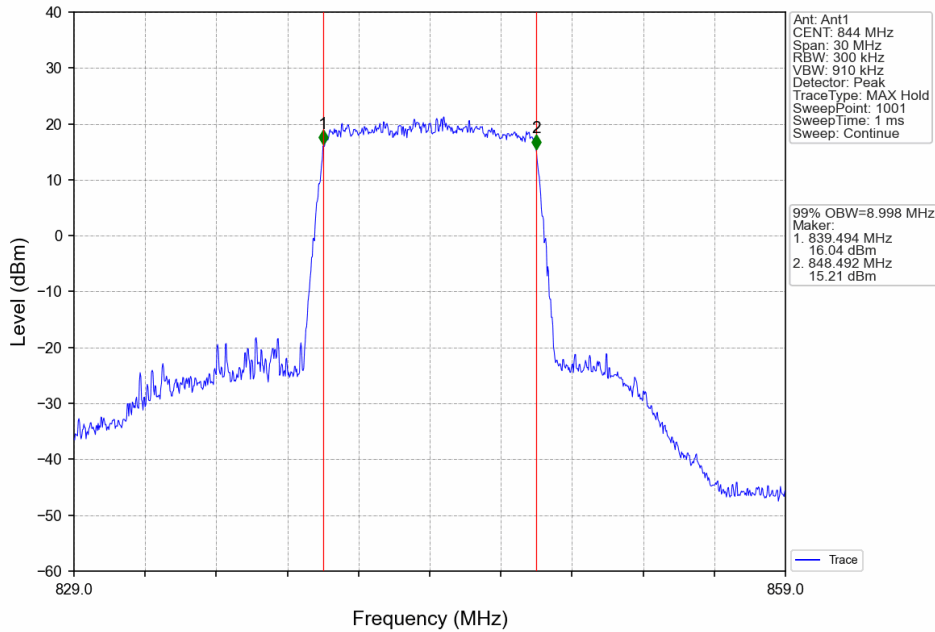
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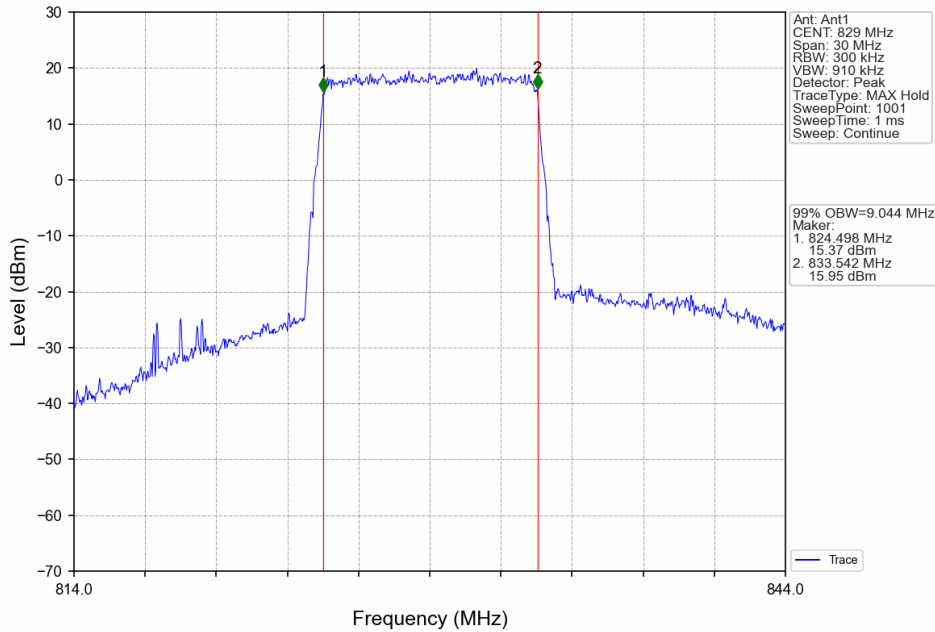
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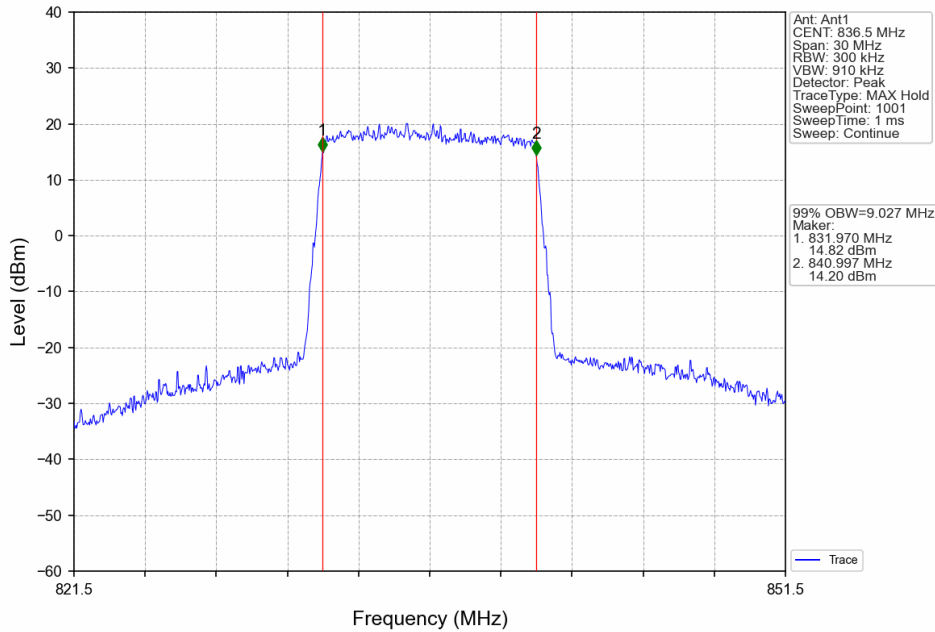
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Band5\_10MHz\_64QAM\_MCH\_836.5MHz\_RB\_50\_0\_NTNV

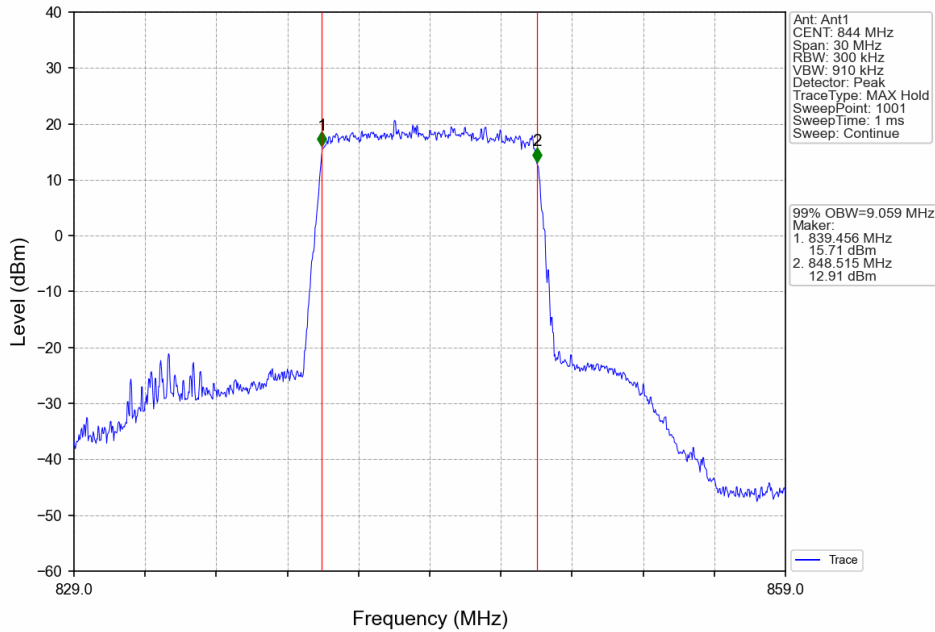


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Band5\_10MHz\_64QAM\_HCH\_844MHz\_RB\_50\_0\_NTNV



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2.2 Band5\_XDB

2.2.1 Test Result

Band: 5 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.264	/	Pass
		836.5	6	0	1.262	/	Pass
		848.3	6	0	1.269	/	Pass
	16QAM	824.7	6	0	1.251	/	Pass
		836.5	6	0	1.260	/	Pass
		848.3	6	0	1.273	/	Pass
	64QAM	824.7	6	0	1.269	/	Pass
		836.5	6	0	1.257	/	Pass
		848.3	6	0	1.257	/	Pass
3	QPSK	825.5	15	0	3.070	/	Pass
		836.5	15	0	3.049	/	Pass
		847.5	15	0	3.064	/	Pass
	16QAM	825.5	15	0	3.088	/	Pass
		836.5	15	0	3.063	/	Pass
		847.5	15	0	3.085	/	Pass
	64QAM	825.5	15	0	3.053	/	Pass
		836.5	15	0	3.057	/	Pass
		847.5	15	0	3.062	/	Pass
5	QPSK	826.5	25	0	5.042	/	Pass
		836.5	25	0	5.025	/	Pass
		846.5	25	0	5.023	/	Pass
	16QAM	826.5	25	0	5.026	/	Pass
		836.5	25	0	5.060	/	Pass
		846.5	25	0	5.065	/	Pass
	64QAM	826.5	25	0	5.062	/	Pass
		836.5	25	0	5.025	/	Pass
		846.5	25	0	5.029	/	Pass
10	QPSK	829	50	0	10.037	/	Pass
		836.5	50	0	9.908	/	Pass
		844	50	0	9.901	/	Pass
	16QAM	829	50	0	9.964	/	Pass
		836.5	50	0	9.983	/	Pass
		844	50	0	9.932	/	Pass
	64QAM	829	50	0	9.959	/	Pass
		836.5	50	0	9.916	/	Pass
		844	50	0	9.901	/	Pass

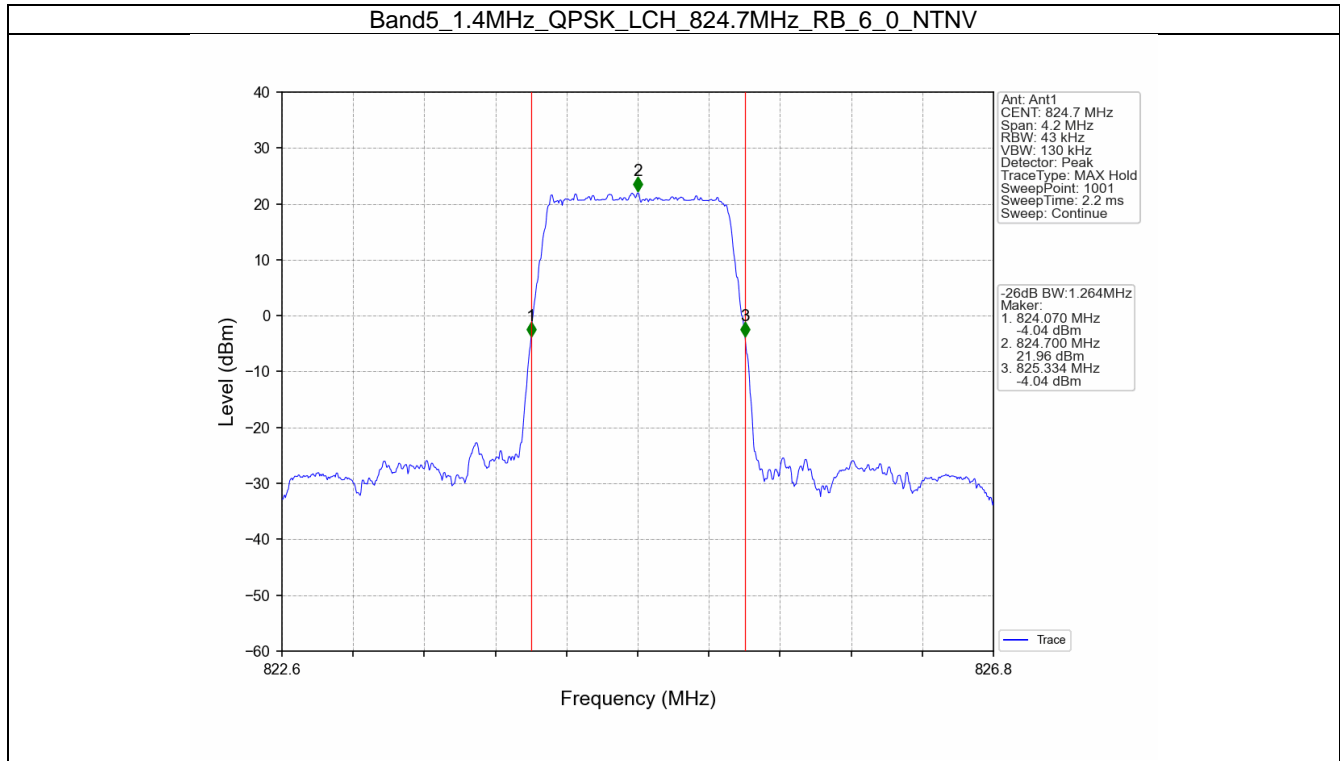


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2.2.2 Test Graph

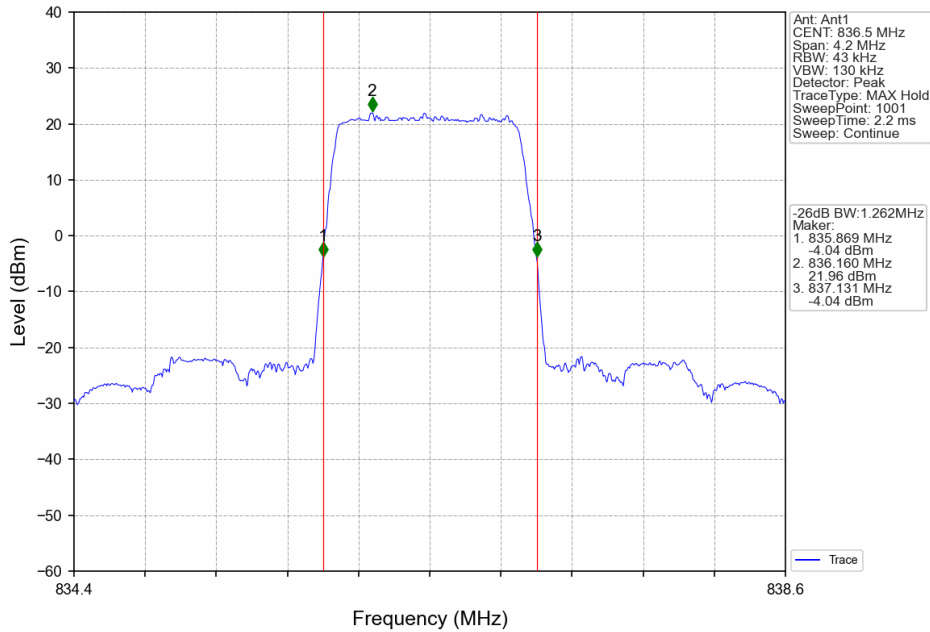


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Band5\_1.4MHz\_QPSK\_MCH\_836.5MHz\_RB\_6\_0\_NTNV

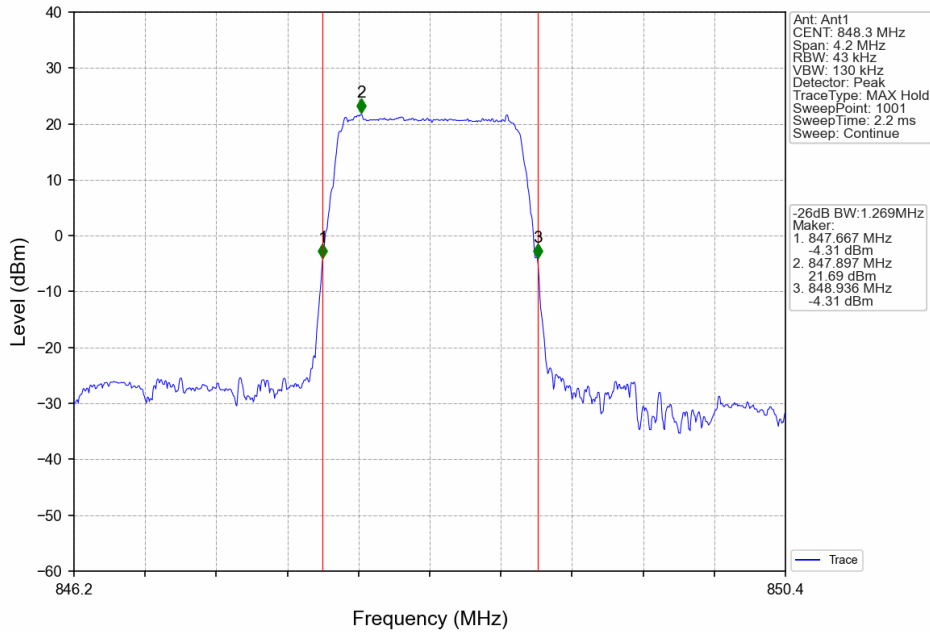


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Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV

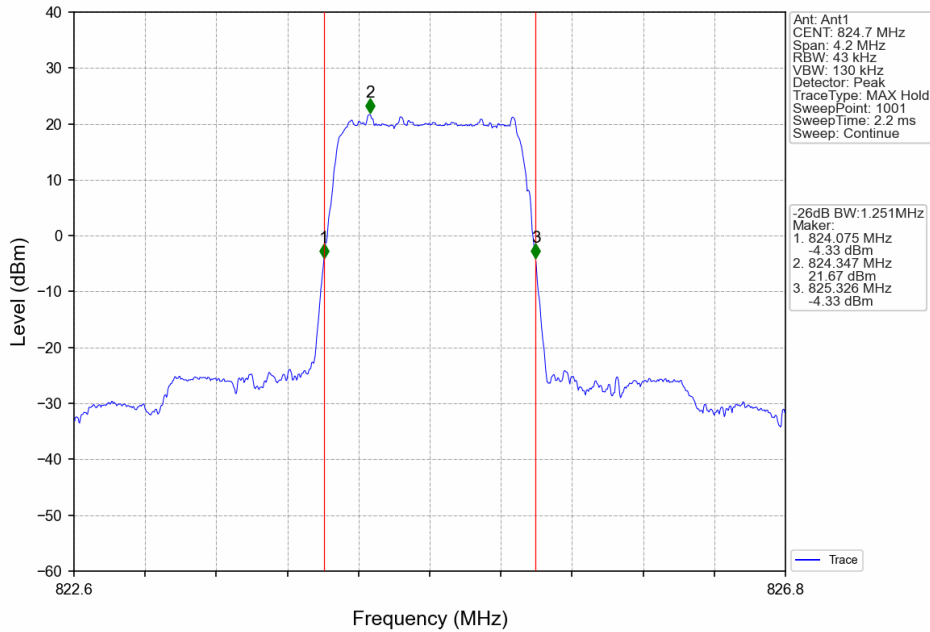


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Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV

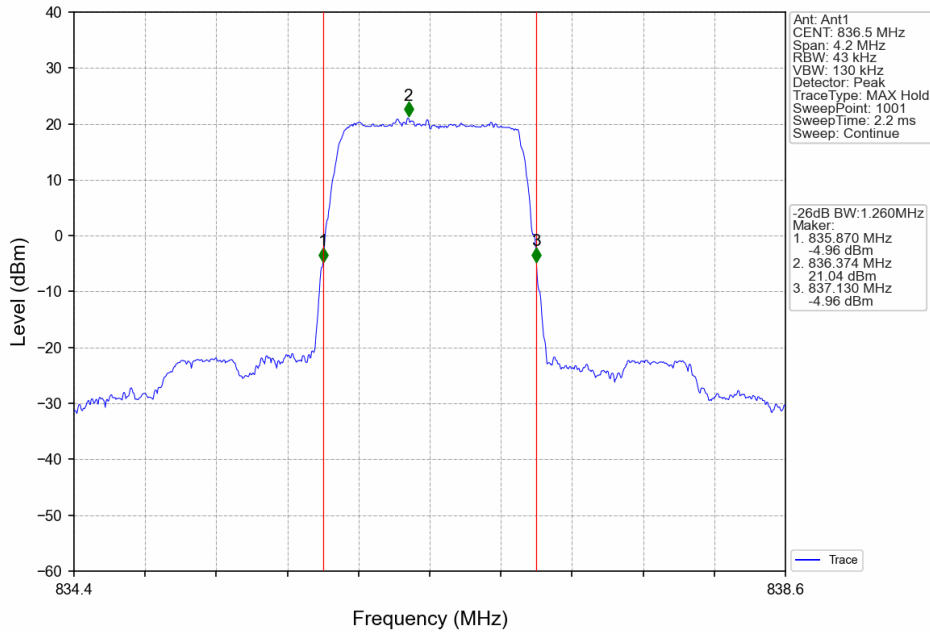


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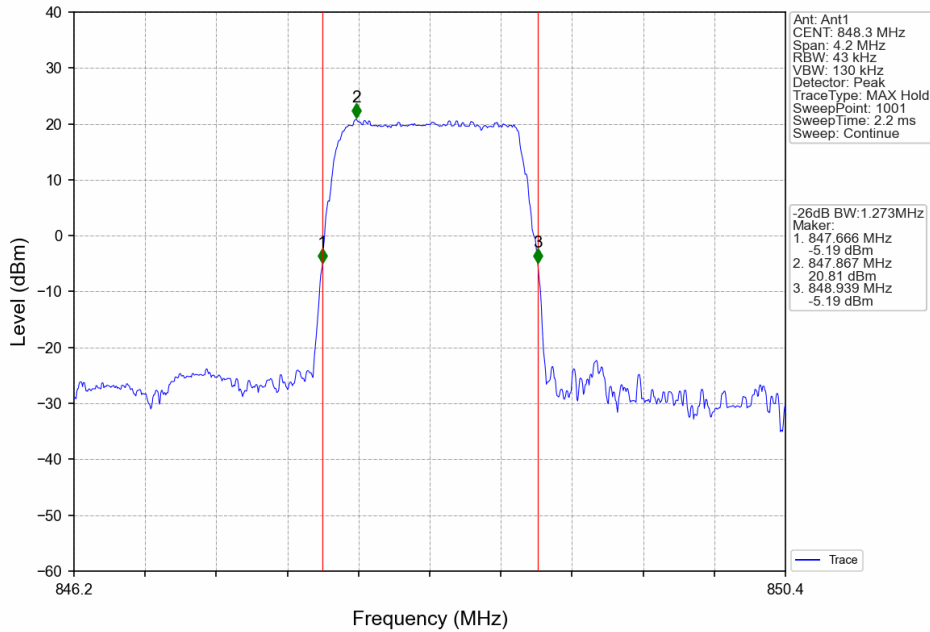
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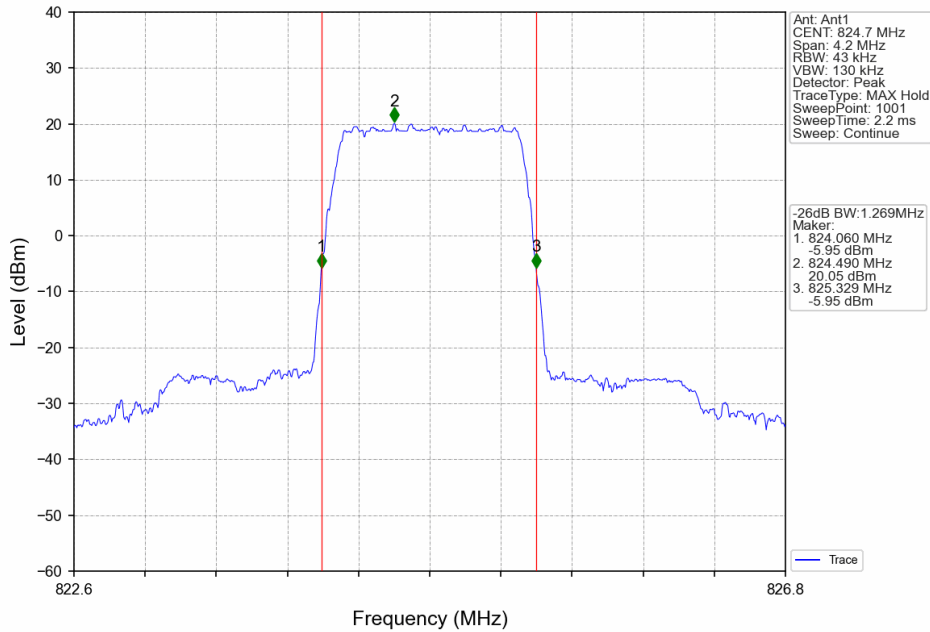


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Band5\_1.4MHz\_64QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV

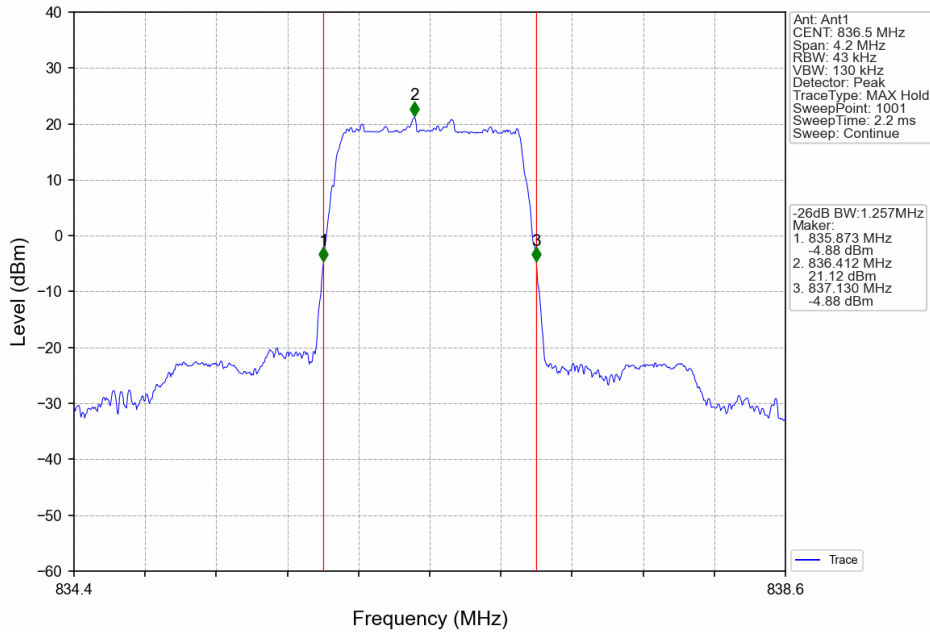


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Band5\_1.4MHz\_64QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV

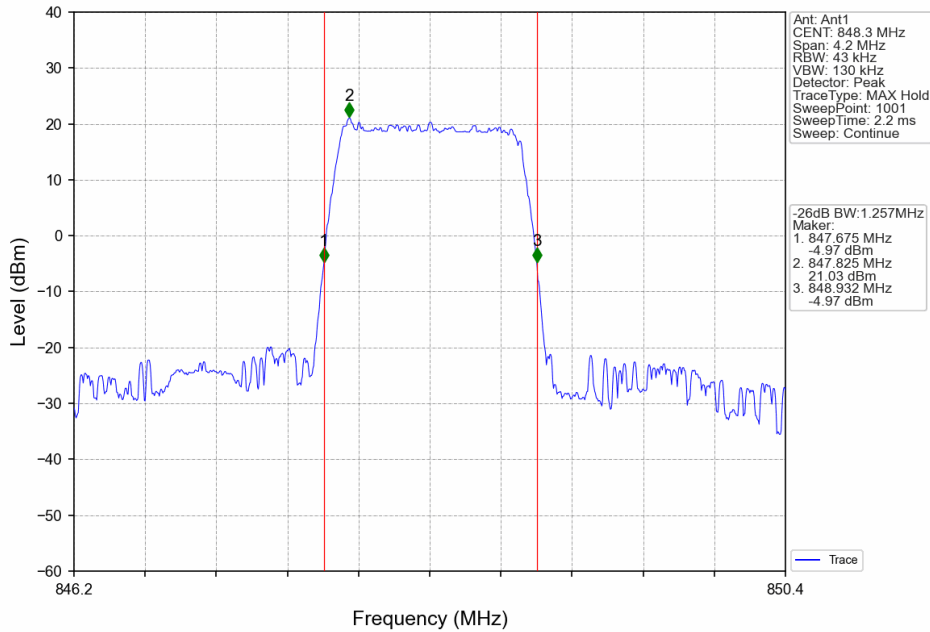


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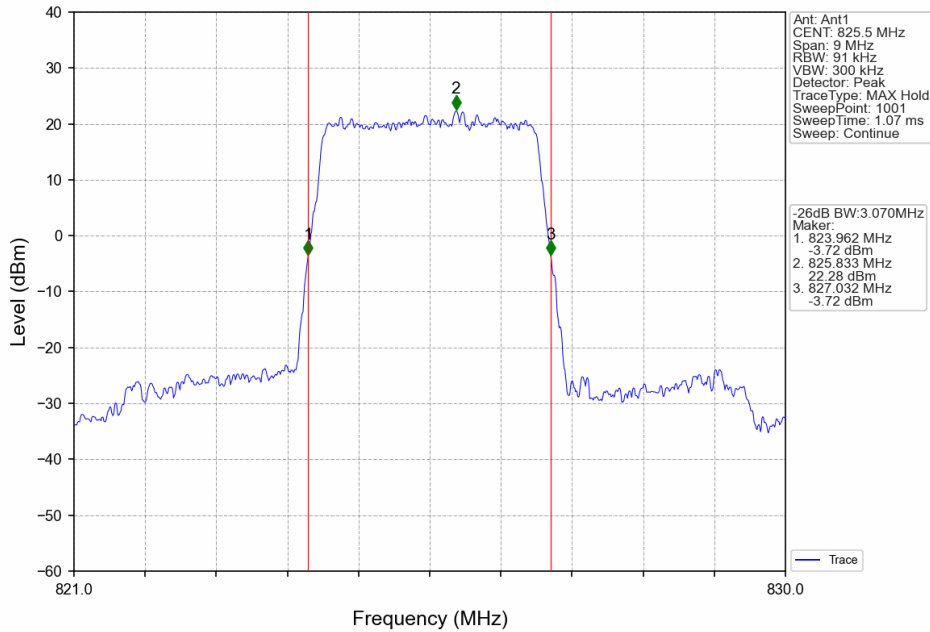


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Band5\_3MHz\_QPSK\_LCH\_825.5MHz\_RB\_15\_0\_NTNV

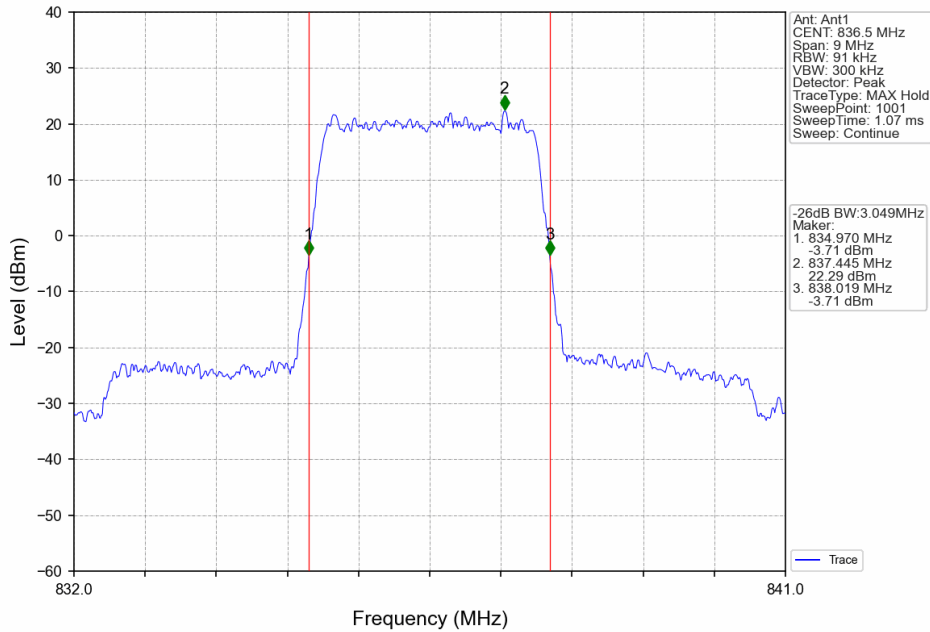


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Band5\_3MHz\_QPSK\_MCH\_836.5MHz\_RB\_15\_0\_NTNV

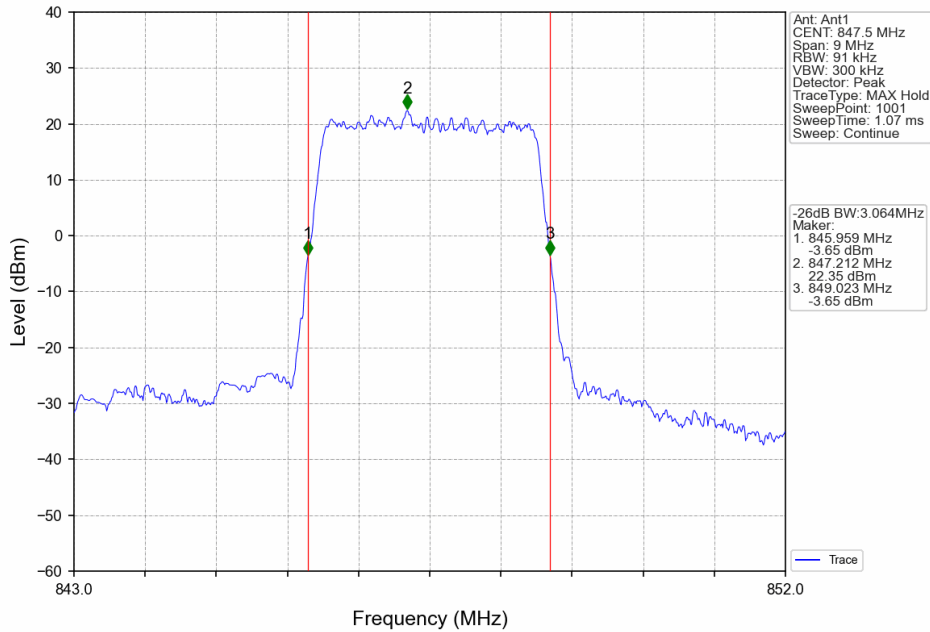


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Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV

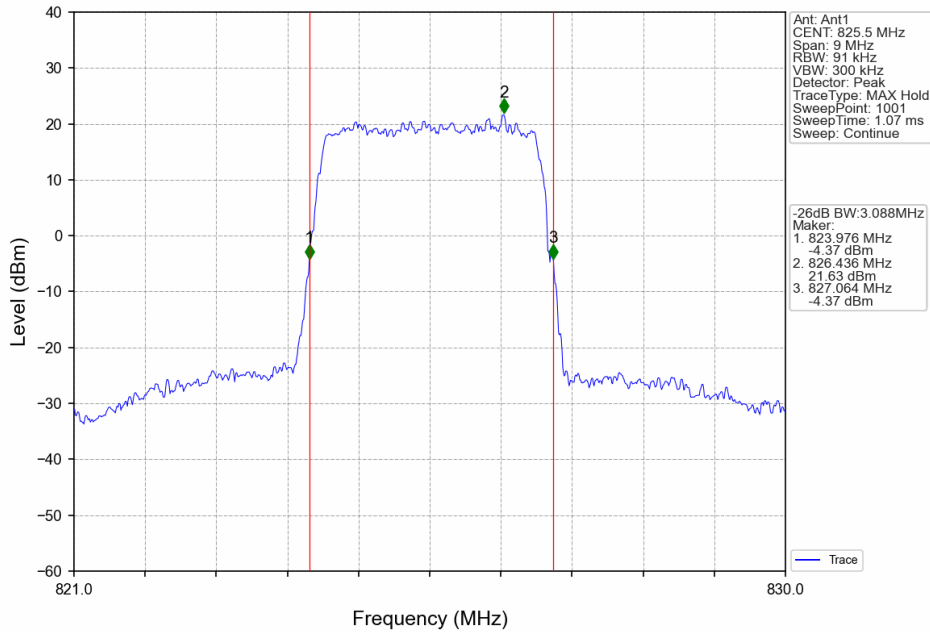


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Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



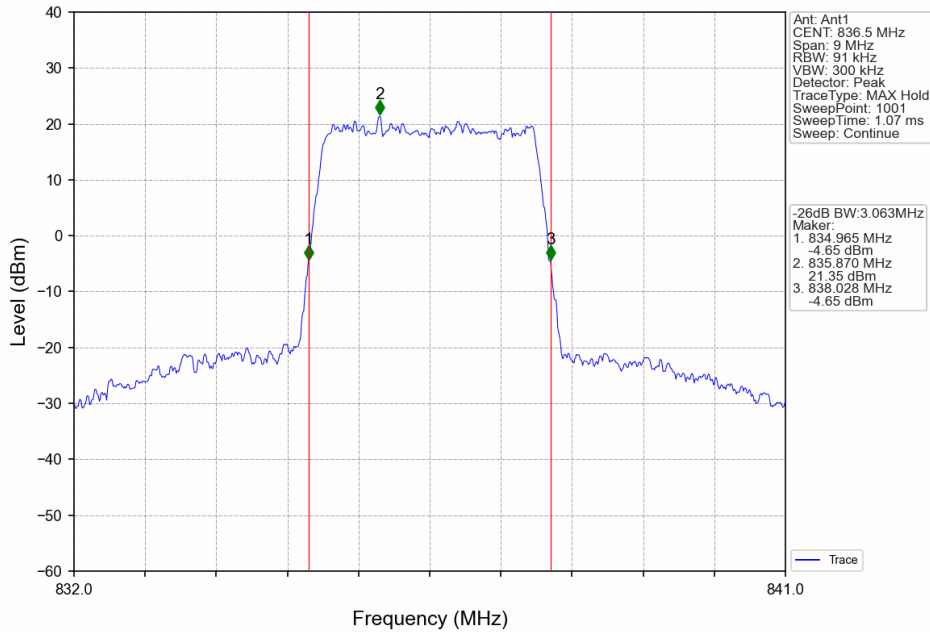
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Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV

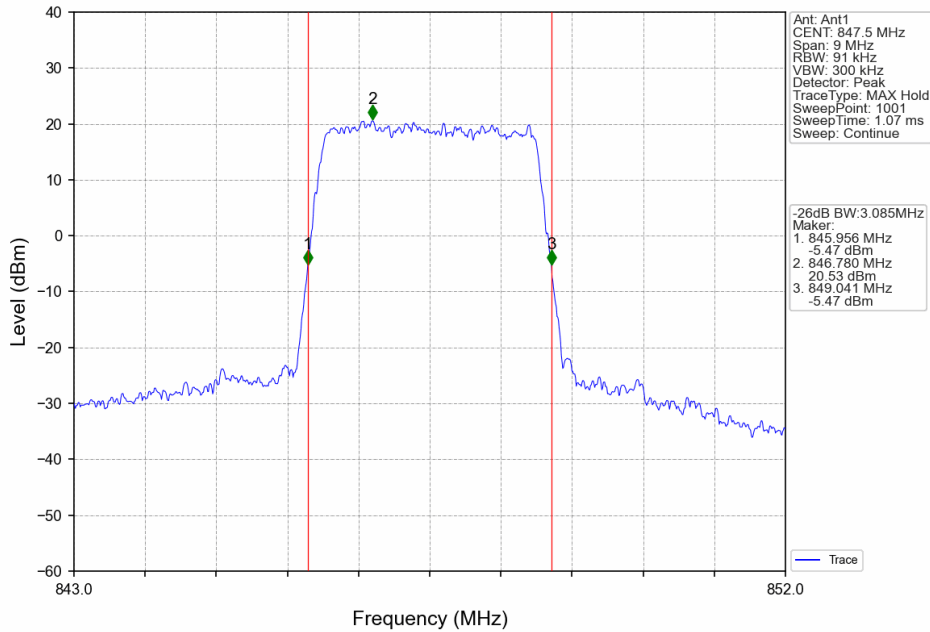


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Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



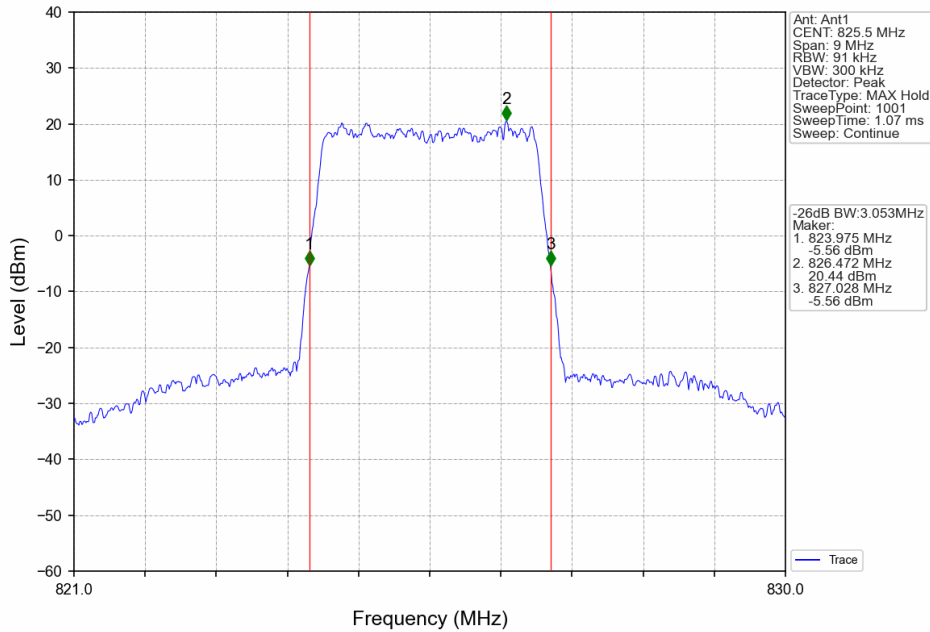
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Band5\_3MHz\_64QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV

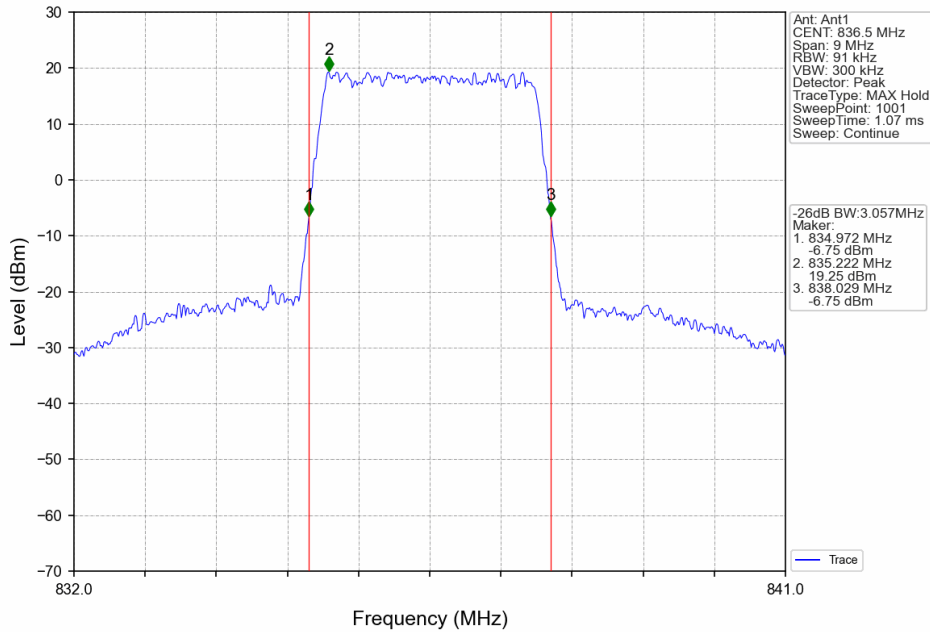


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Band5\_3MHz\_64QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV

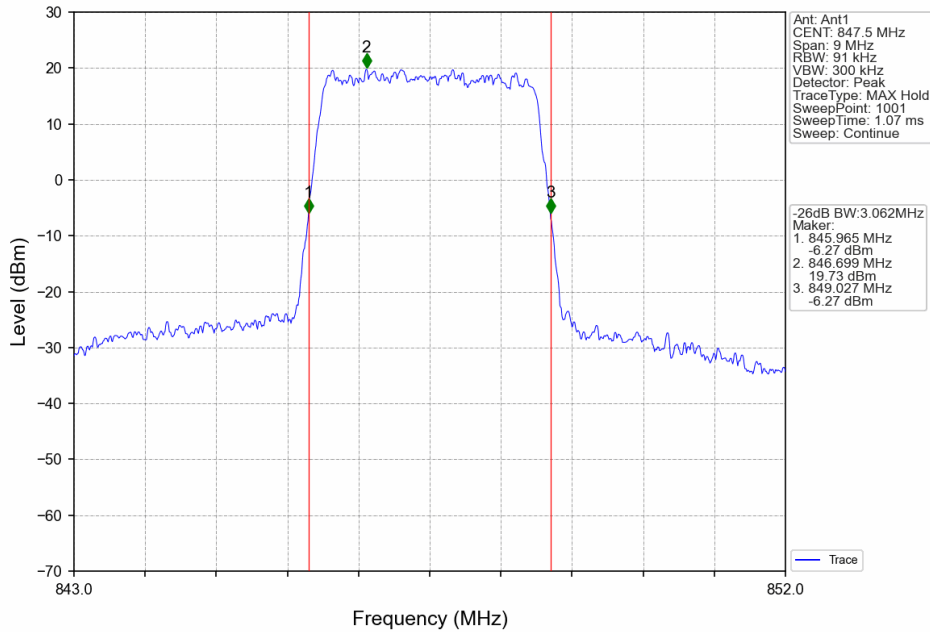


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Band5\_3MHz\_64QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV

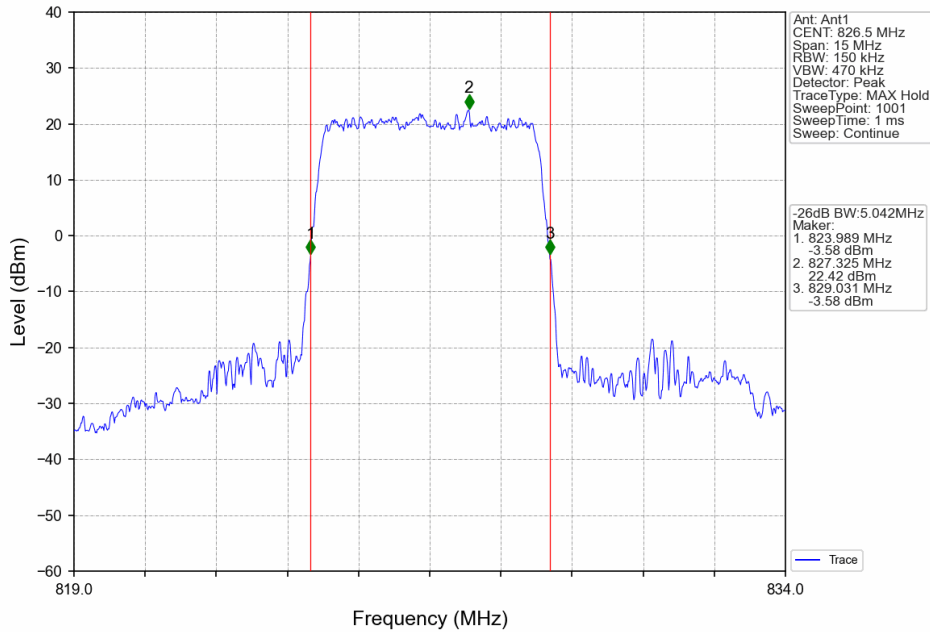


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Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_25\_0\_NTNV

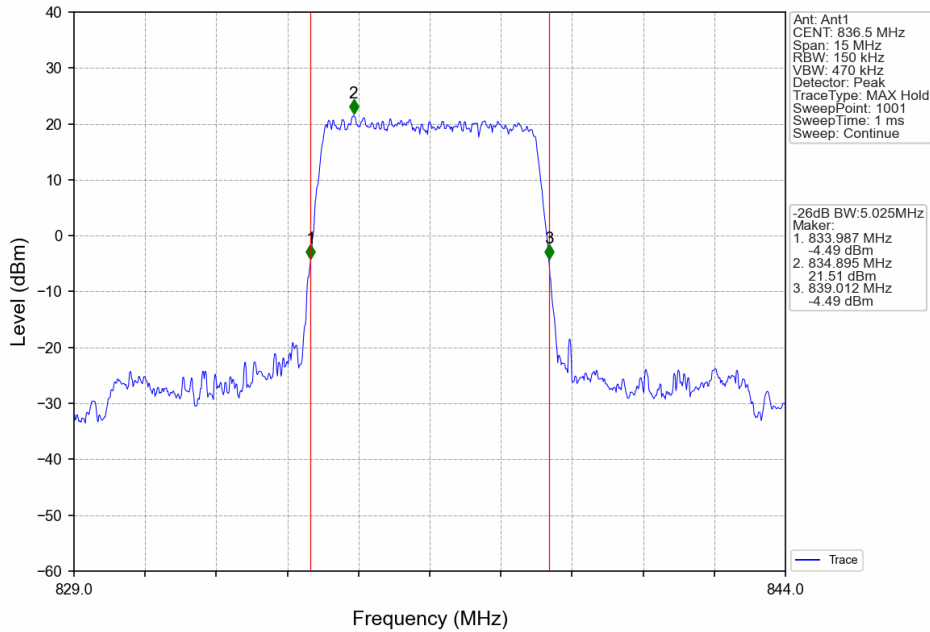


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Band5\_5MHz\_QPSK\_MCH\_836.5MHz\_RB\_25\_0\_NTNV

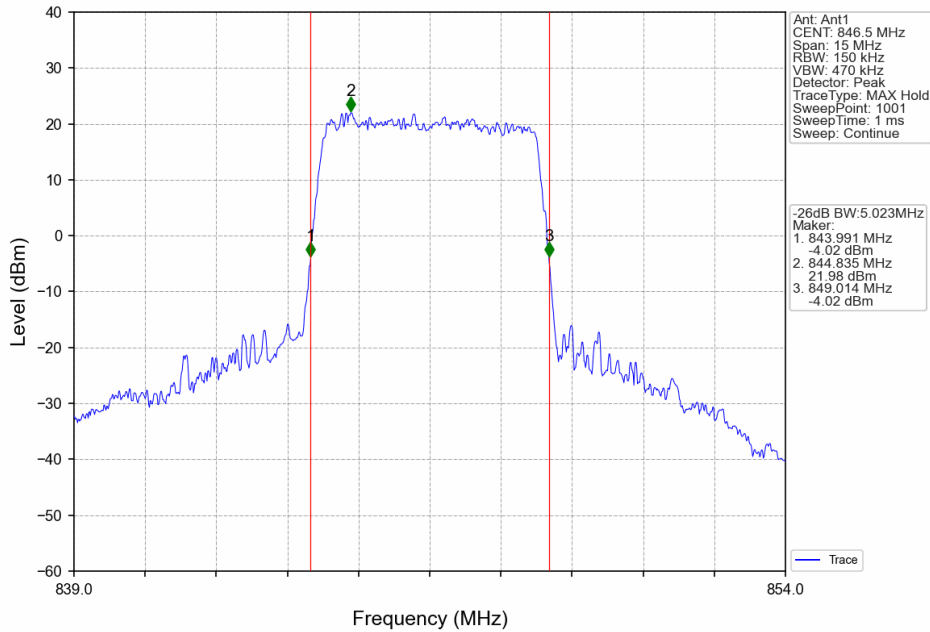


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Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



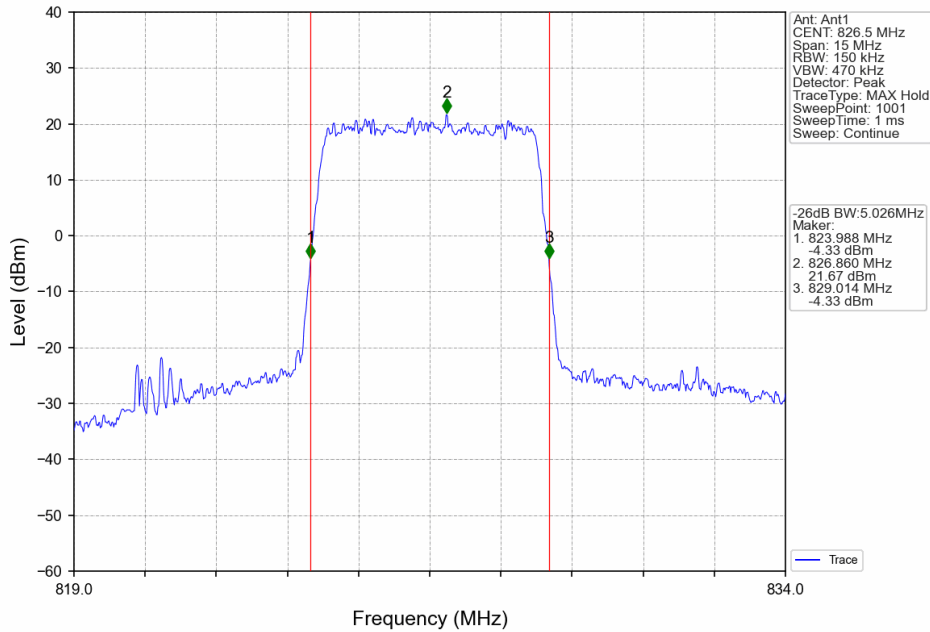
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Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV

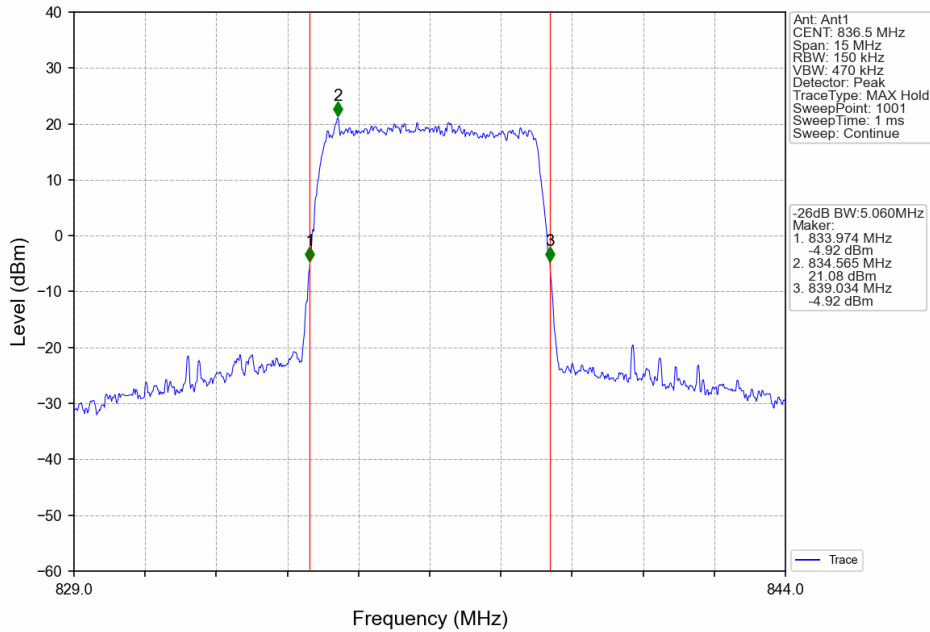


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Band5\_5MHz\_16QAM\_MCH\_836.5MHz\_RB\_25\_0\_NTNV

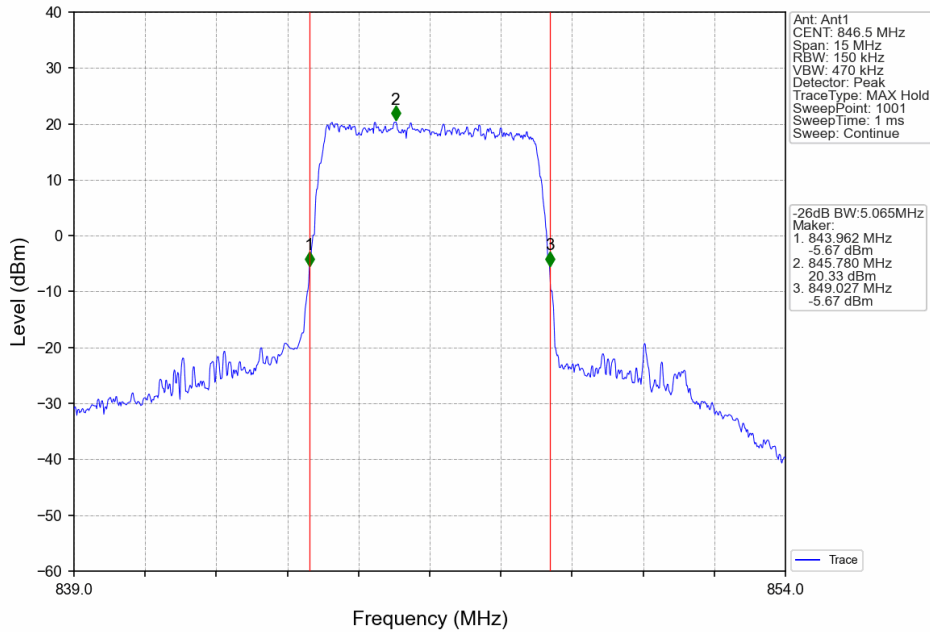


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Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV

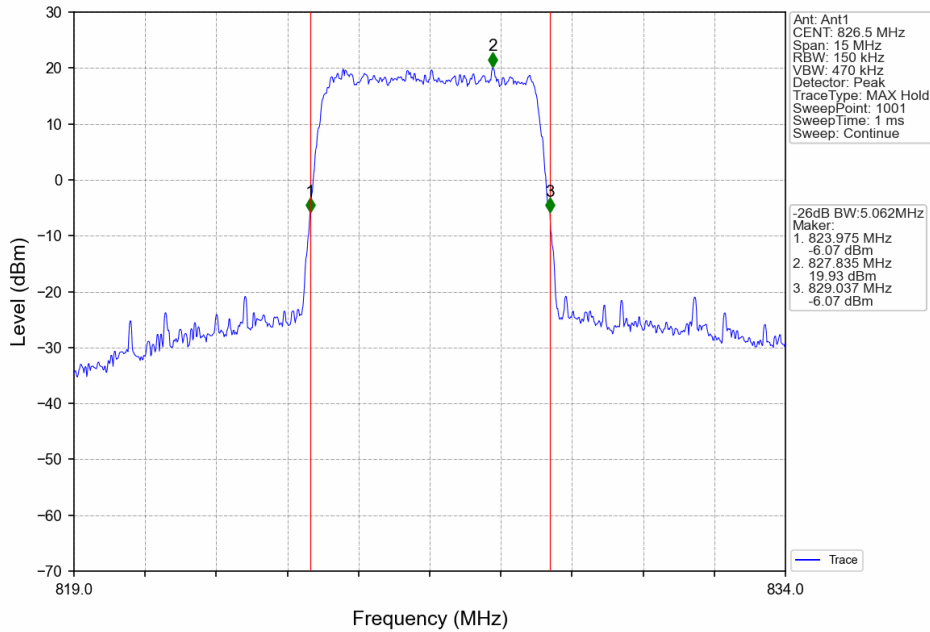


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Band5\_5MHz\_64QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV

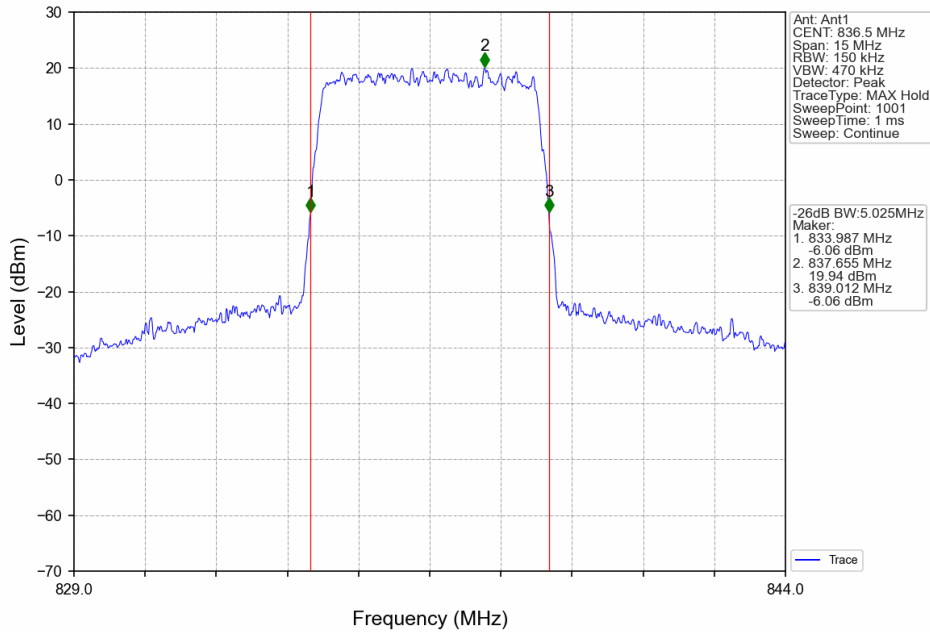


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Band5\_5MHz\_64QAM\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



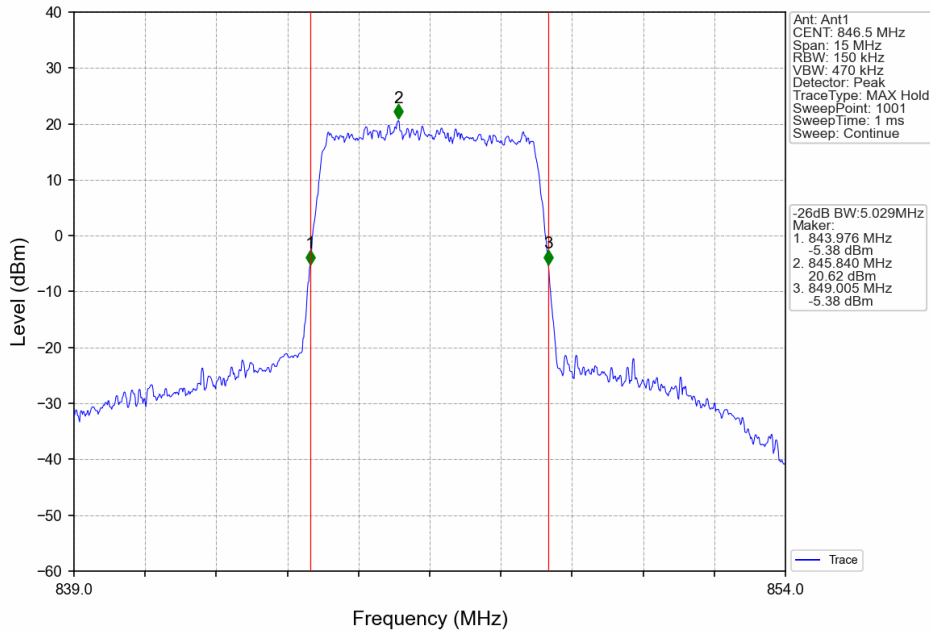
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Band5\_5MHz\_64QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV

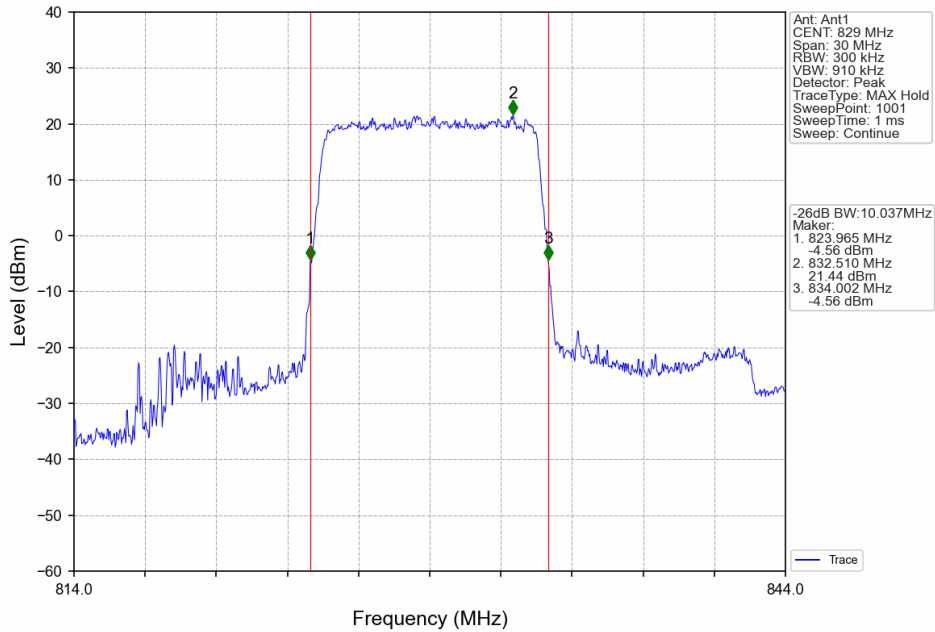


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Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_50\_0\_NTNV

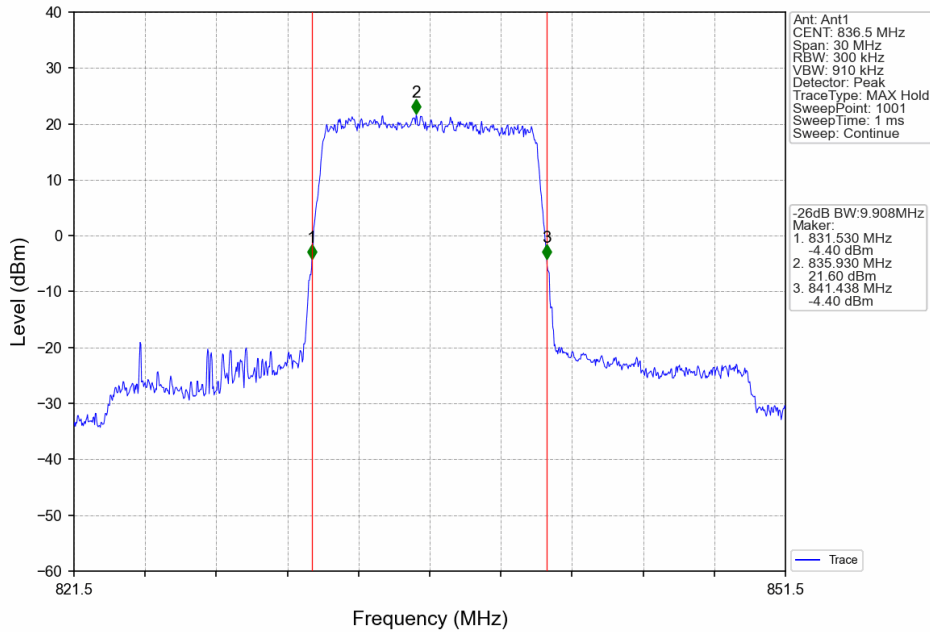


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Band5\_10MHz\_QPSK\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



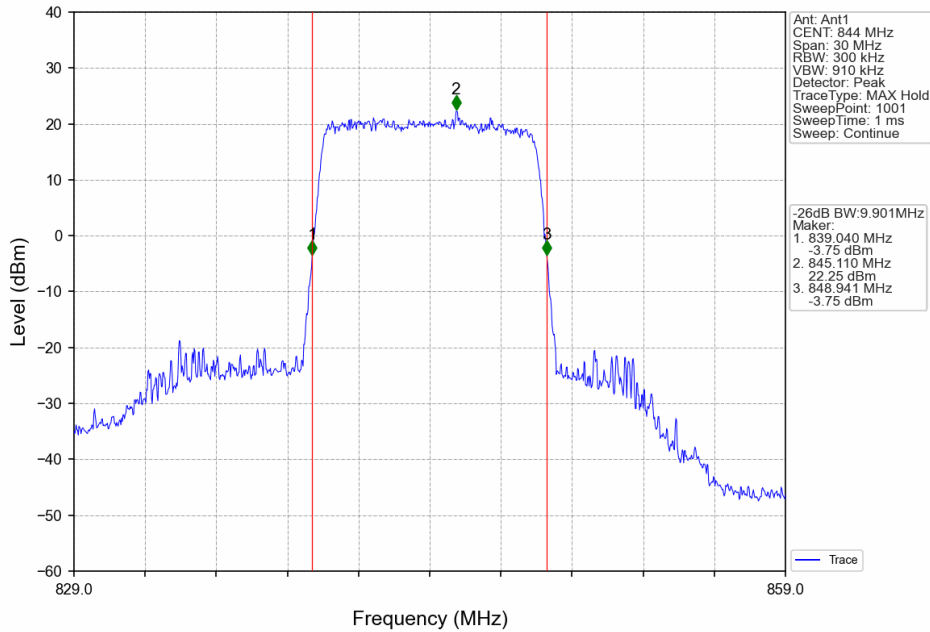
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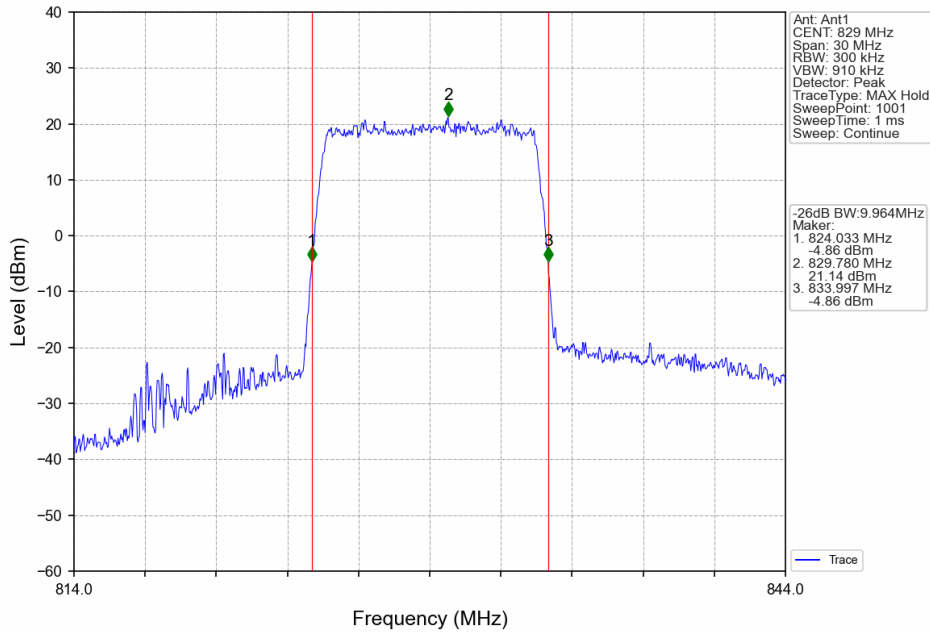


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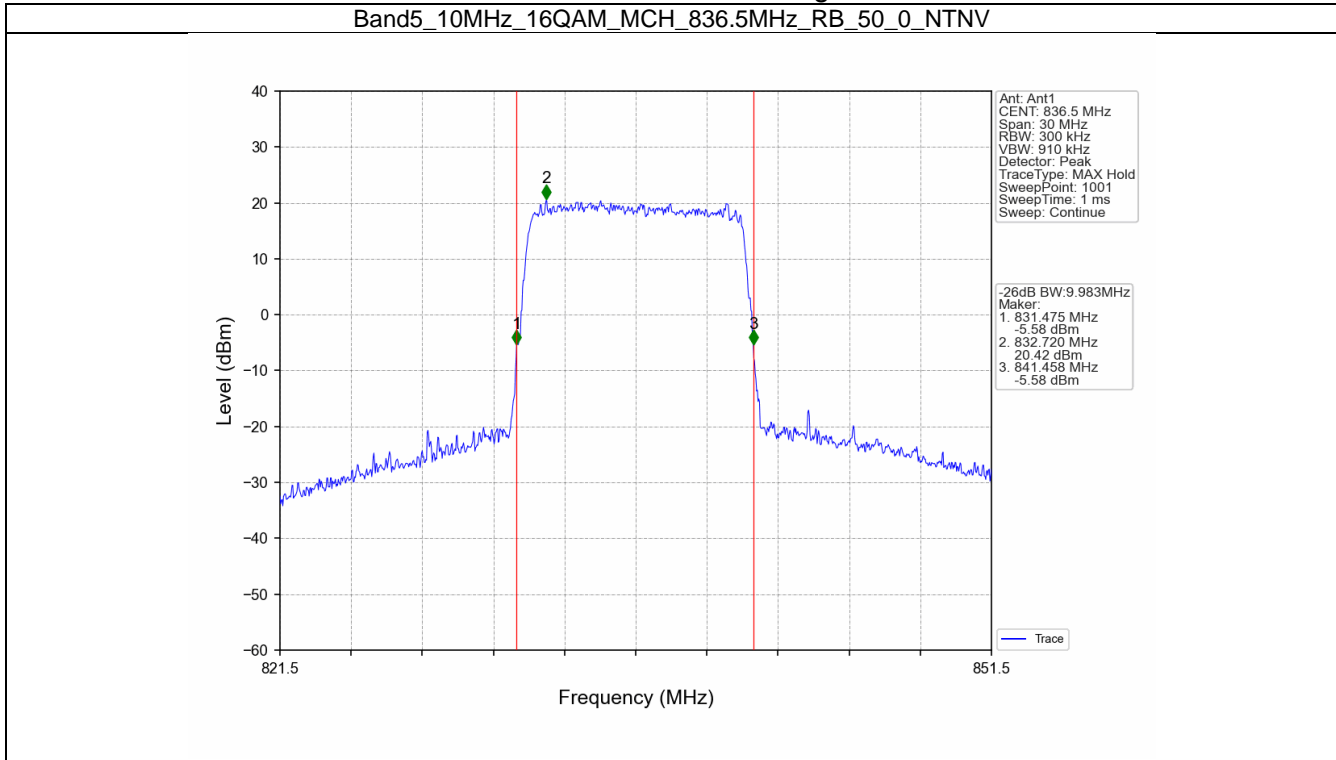
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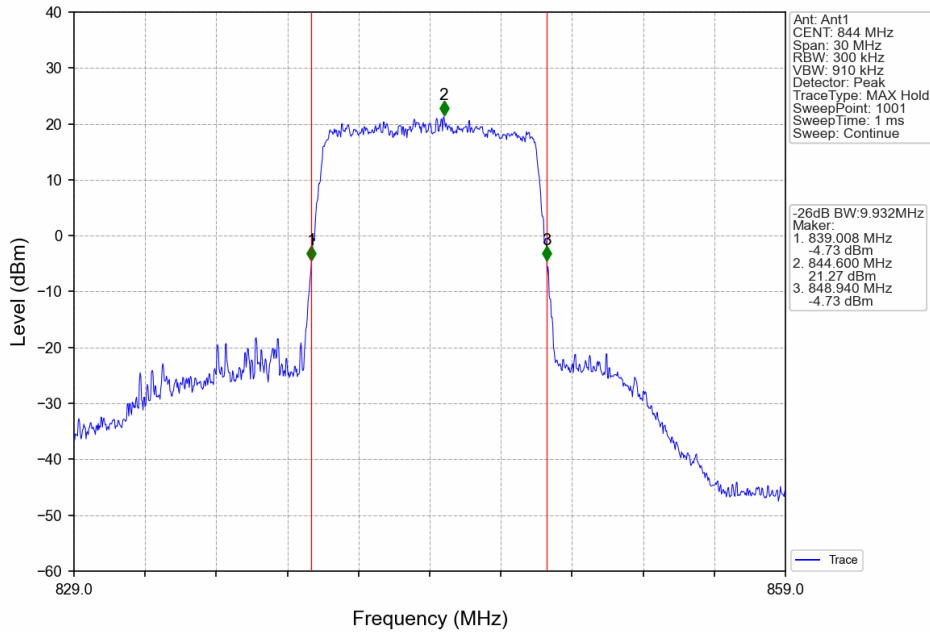


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Band5\_10MHz\_16QAM\_HCH\_844MHz\_RB\_50\_0\_NTNV

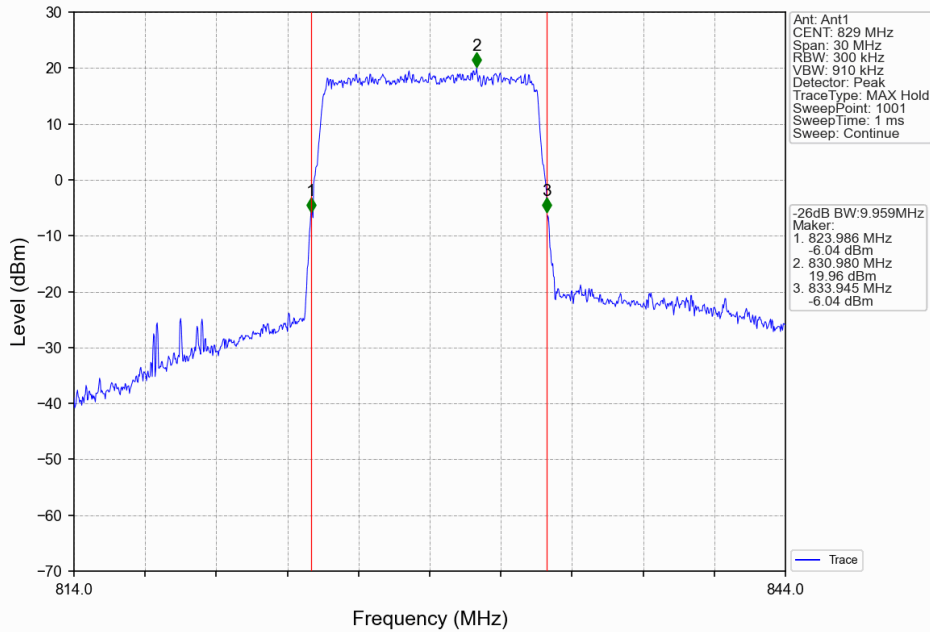


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Band5\_10MHz\_64QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV

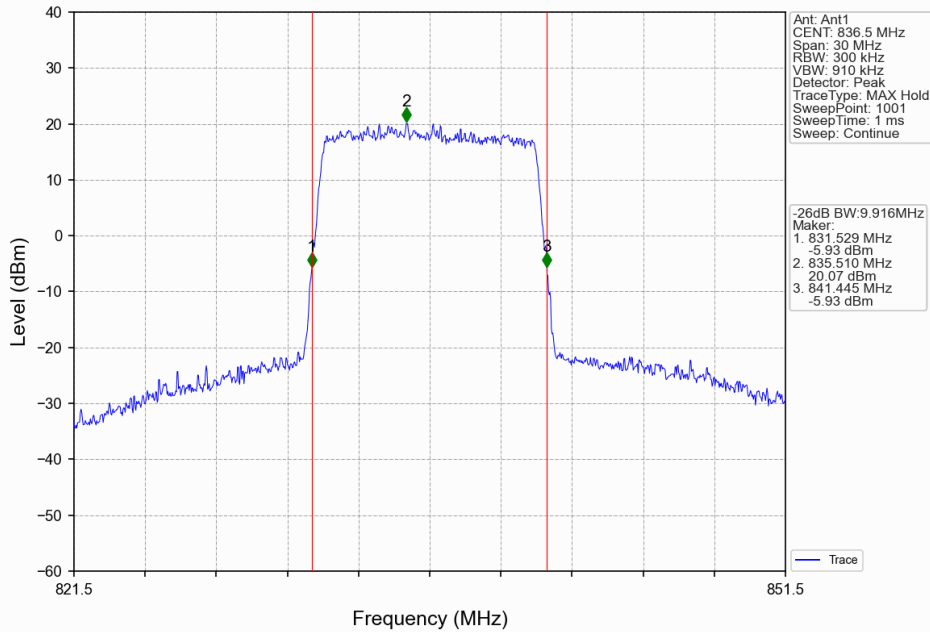


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Band5\_10MHz\_64QAM\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



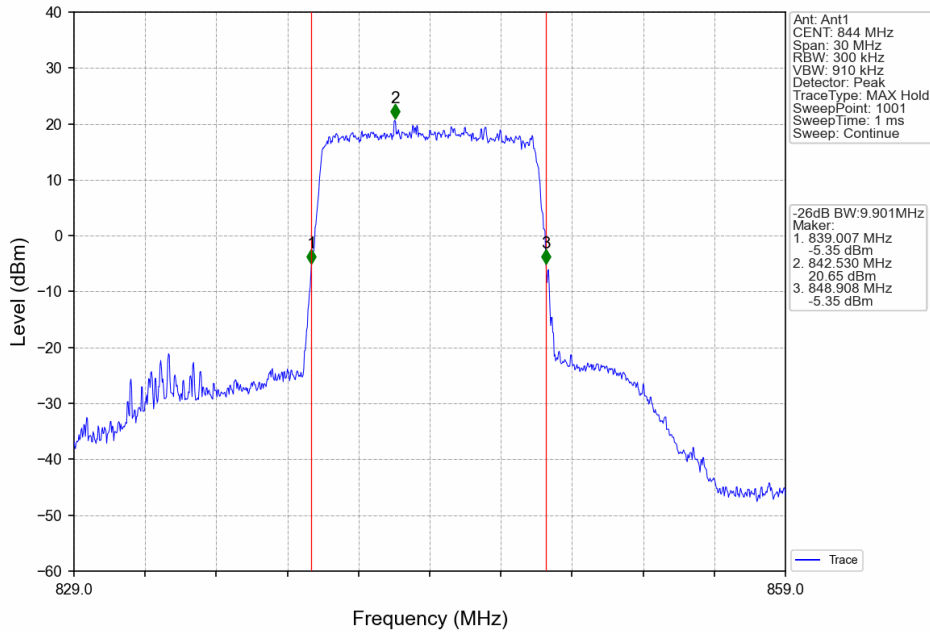
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Band5\_10MHz\_64QAM\_HCH\_844MHz\_RB\_50\_0\_NTNV



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3. Peak-Average Ratio

3.1 B5\_1.4MHz

3.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	824.7	6	0	5.42	<=13	Pass
	836.5	6	0	5.33	<=13	Pass
	848.3	6	0	5.33	<=13	Pass
16QAM	824.7	6	0	6.18	<=13	Pass
	836.5	6	0	6.18	<=13	Pass
	848.3	6	0	6.19	<=13	Pass
64QAM	824.7	6	0	6.79	<=13	Pass
	836.5	6	0	6.44	<=13	Pass
	848.3	6	0	6.43	<=13	Pass



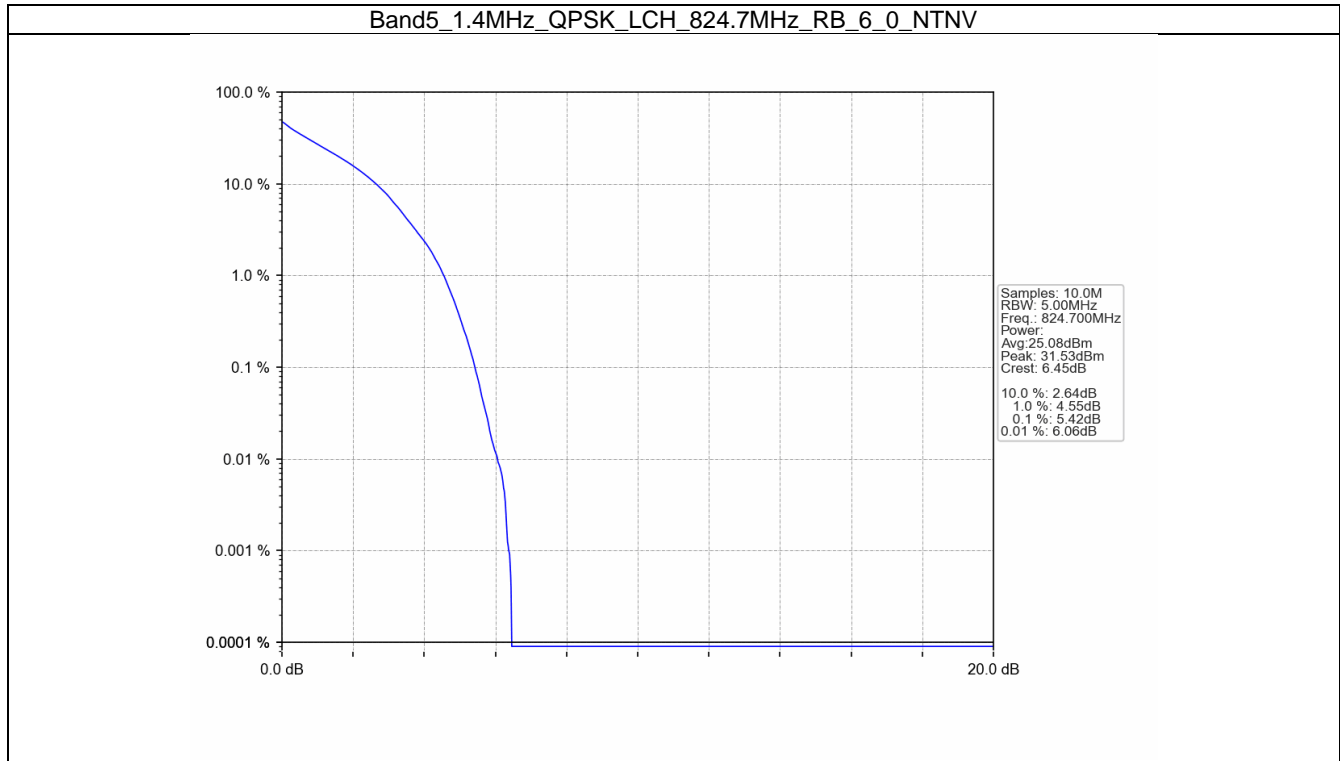
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3.1.2 Test Graph



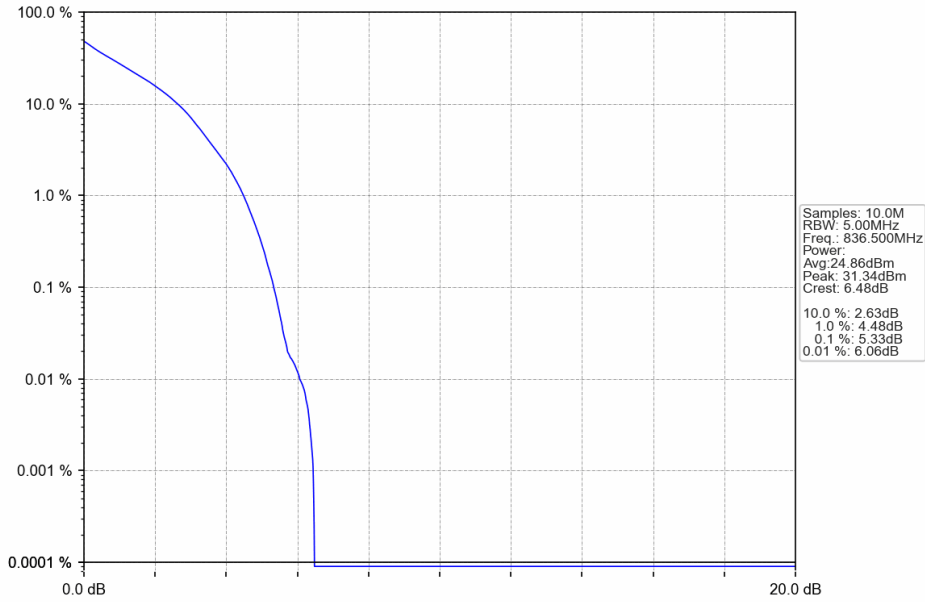
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Band5\_1.4MHz\_QPSK\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



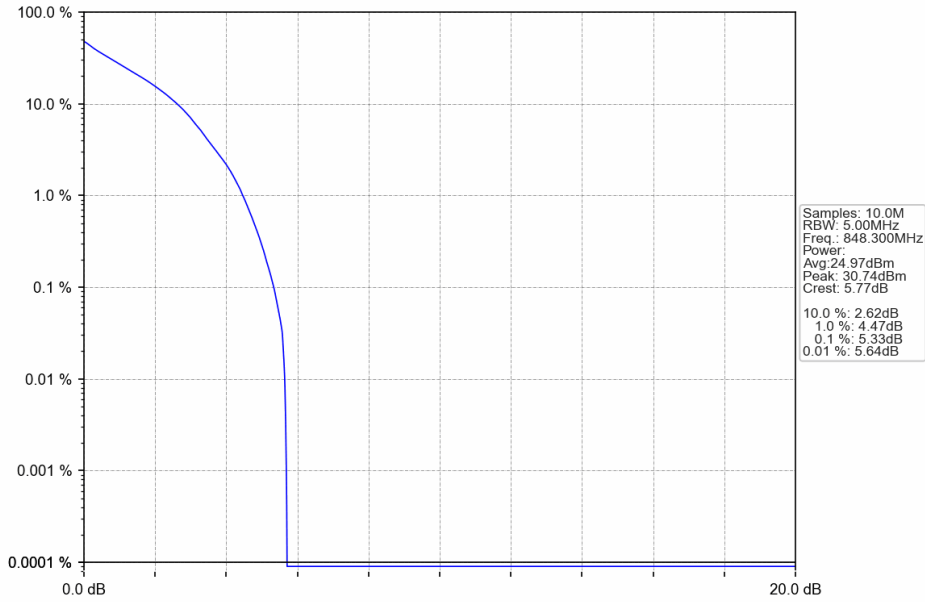
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Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



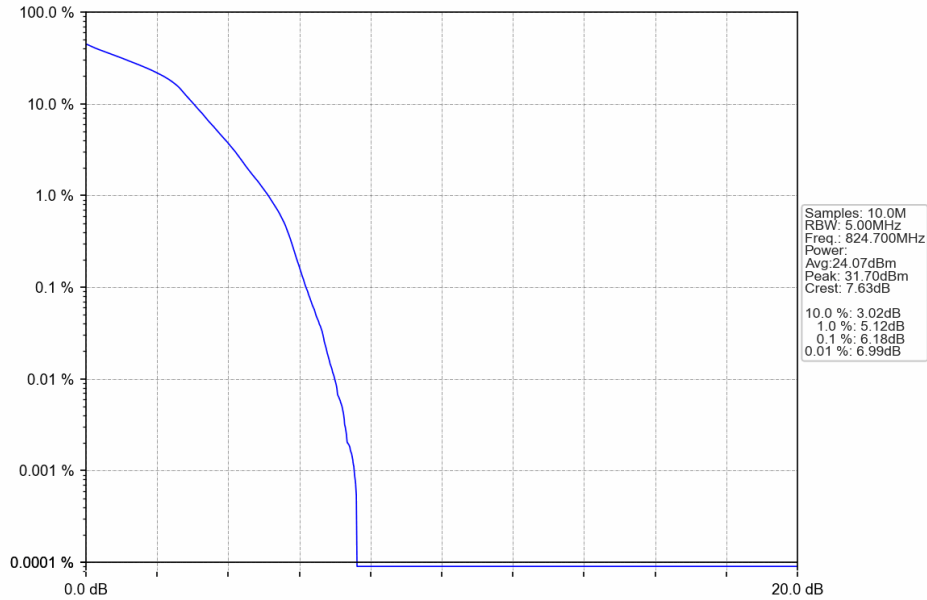
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Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



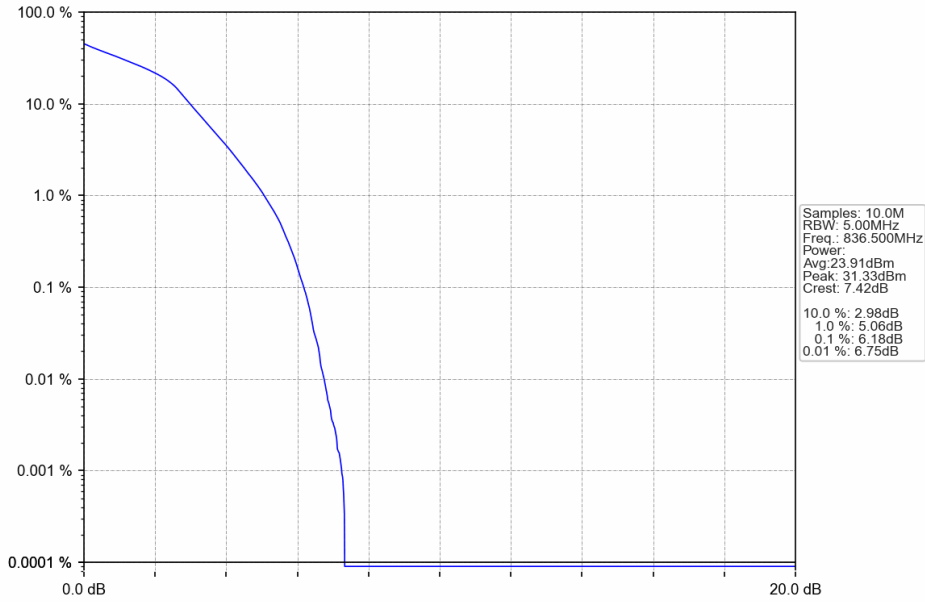
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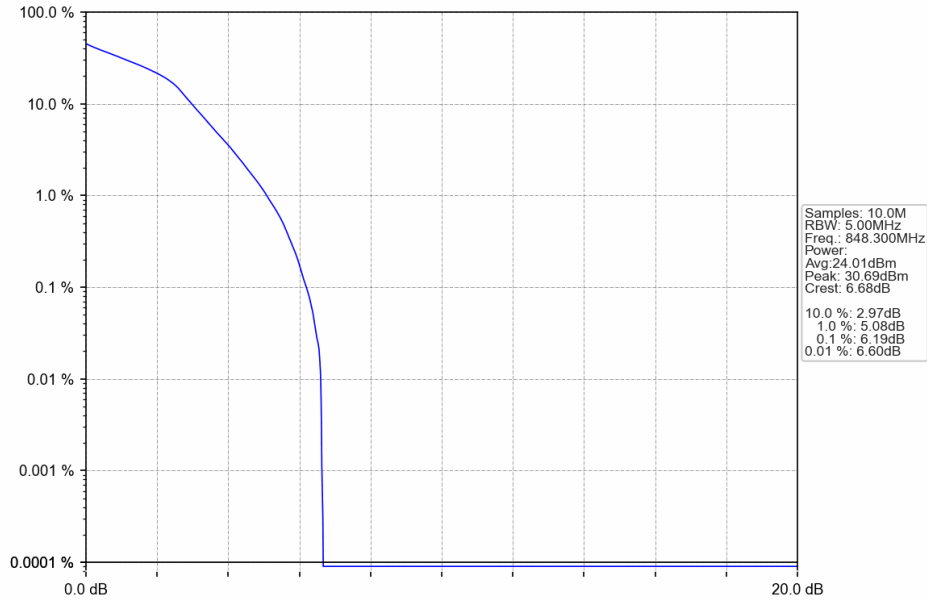
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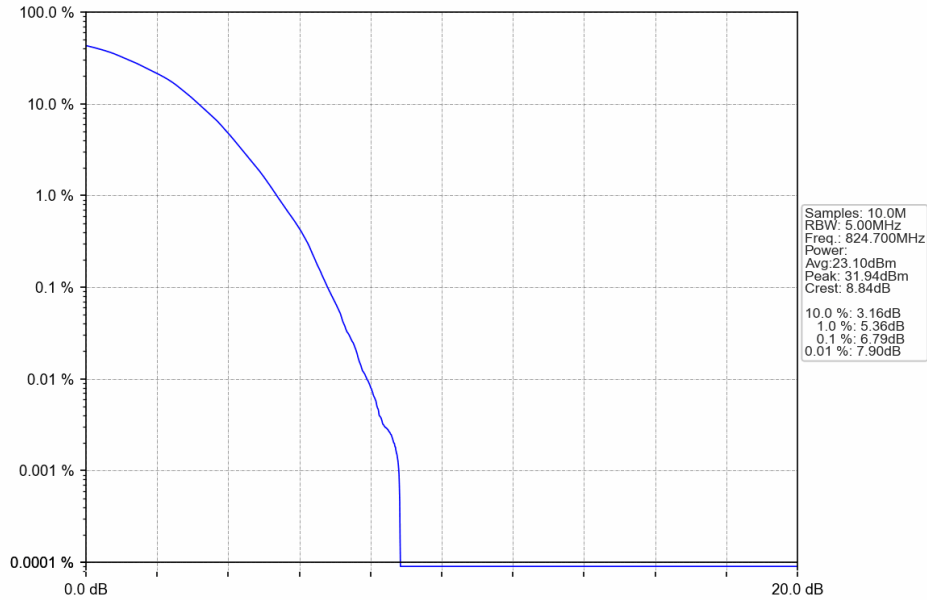


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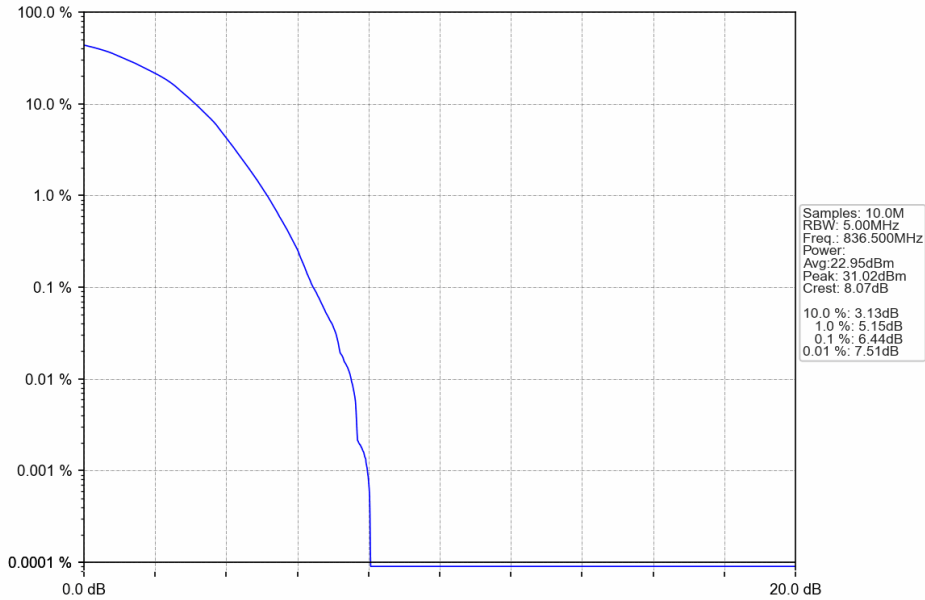
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