



Report No.: SEWA2310000127RG01

Rev.: 01

Page: 1 of 224

Appendix B.19

LTE Band 71



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1. Frequency Stability

1.1 B71_5MHz

1.1.1 Test Result

Band: 71 / Bandwidth: 5MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	665.5	25	0	20	3.8	1.726	0.0026	-2.5 to 2.5	Pass	
					4.0	1.164	0.0017	-2.5 to 2.5	Pass	
					4.2	1.420	0.0021	-2.5 to 2.5	Pass	
				-30	4.0	1.135	0.0017	-2.5 to 2.5	Pass	
					-20	4.0	2.697	0.0041	-2.5 to 2.5	Pass
					-10	4.0	4.139	0.0062	-2.5 to 2.5	Pass
				0	4.0	1.186	0.0018	-2.5 to 2.5	Pass	
					10	4.0	0.172	0.0003	-2.5 to 2.5	Pass
					30	4.0	1.029	0.0015	-2.5 to 2.5	Pass
					40	4.0	-0.006	0.0000	-2.5 to 2.5	Pass
	50	4.0	0.457		0.0007	-2.5 to 2.5	Pass			
	680.5	25	0		20	3.8	1.121	0.0016	-2.5 to 2.5	Pass
						4.0	2.194	0.0032	-2.5 to 2.5	Pass
				4.2		0.491	0.0007	-2.5 to 2.5	Pass	
				-30	4.0	1.650	0.0024	-2.5 to 2.5	Pass	
					-20	4.0	0.306	0.0004	-2.5 to 2.5	Pass
					-10	4.0	1.075	0.0016	-2.5 to 2.5	Pass
				0	4.0	2.396	0.0035	-2.5 to 2.5	Pass	
					10	4.0	0.912	0.0013	-2.5 to 2.5	Pass
					30	4.0	0.574	0.0008	-2.5 to 2.5	Pass
					40	4.0	0.470	0.0007	-2.5 to 2.5	Pass
	50	4.0	0.966		0.0014	-2.5 to 2.5	Pass			
	695.5	25	0		20	3.8	2.212	0.0032	-2.5 to 2.5	Pass
						4.0	-0.819	-0.0012	-2.5 to 2.5	Pass
				4.2		0.132	0.0002	-2.5 to 2.5	Pass	
				-30	4.0	-0.493	-0.0007	-2.5 to 2.5	Pass	
					-20	4.0	1.138	0.0016	-2.5 to 2.5	Pass
					-10	4.0	0.949	0.0014	-2.5 to 2.5	Pass
				0	4.0	0.736	0.0011	-2.5 to 2.5	Pass	
					10	4.0	2.523	0.0036	-2.5 to 2.5	Pass
30					4.0	0.738	0.0011	-2.5 to 2.5	Pass	
40					4.0	0.551	0.0008	-2.5 to 2.5	Pass	
50	4.0	2.130	0.0031		-2.5 to 2.5	Pass				
16QAM	665.5	25	0		20	3.8	1.082	0.0016	-2.5 to 2.5	Pass
						4.0	1.121	0.0017	-2.5 to 2.5	Pass
				4.2		2.288	0.0034	-2.5 to 2.5	Pass	
				-30	4.0	0.692	0.0010	-2.5 to 2.5	Pass	
					-20	4.0	1.866	0.0028	-2.5 to 2.5	Pass
					-10	4.0	2.551	0.0038	-2.5 to 2.5	Pass
				0	4.0	-0.071	-0.0001	-2.5 to 2.5	Pass	



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Report No.: SEWA2310000127RG01

Rev.: 01

Page: 3 of 224

64QAM	680.5	25	0	10	4.0	-0.558	-0.0008	-2.5 to 2.5	Pass		
				30	4.0	0.586	0.0009	-2.5 to 2.5	Pass		
				40	4.0	0.514	0.0008	-2.5 to 2.5	Pass		
				50	4.0	1.117	0.0017	-2.5 to 2.5	Pass		
				20	3.8	-0.160	-0.0002	-2.5 to 2.5	Pass		
					4.0	0.127	0.0002	-2.5 to 2.5	Pass		
					4.2	1.696	0.0025	-2.5 to 2.5	Pass		
				-30	4.0	0.718	0.0011	-2.5 to 2.5	Pass		
				-20	4.0	-1.312	-0.0019	-2.5 to 2.5	Pass		
				-10	4.0	0.428	0.0006	-2.5 to 2.5	Pass		
				0	4.0	-0.346	-0.0005	-2.5 to 2.5	Pass		
				10	4.0	0.435	0.0006	-2.5 to 2.5	Pass		
	30	4.0	0.488	0.0007	-2.5 to 2.5	Pass					
	40	4.0	1.412	0.0021	-2.5 to 2.5	Pass					
	50	4.0	0.890	0.0013	-2.5 to 2.5	Pass					
	695.5	25	0	20	3.8	2.254	0.0032	-2.5 to 2.5	Pass		
					4.0	2.181	0.0031	-2.5 to 2.5	Pass		
					4.2	0.769	0.0011	-2.5 to 2.5	Pass		
				-30	4.0	1.758	0.0025	-2.5 to 2.5	Pass		
				-20	4.0	3.802	0.0055	-2.5 to 2.5	Pass		
				-10	4.0	2.924	0.0042	-2.5 to 2.5	Pass		
				0	4.0	3.329	0.0048	-2.5 to 2.5	Pass		
				10	4.0	3.415	0.0049	-2.5 to 2.5	Pass		
				30	4.0	4.117	0.0059	-2.5 to 2.5	Pass		
				40	4.0	2.035	0.0029	-2.5 to 2.5	Pass		
				50	4.0	0.861	0.0012	-2.5 to 2.5	Pass		
				665.5	25	0	20	3.8	0.064	0.0001	-2.5 to 2.5
	4.0	-0.149	-0.0002					-2.5 to 2.5	Pass		
4.2	-0.345	-0.0005	-2.5 to 2.5					Pass			
-30	4.0	0.057	0.0001				-2.5 to 2.5	Pass			
-20	4.0	0.433	0.0007				-2.5 to 2.5	Pass			
-10	4.0	2.292	0.0034				-2.5 to 2.5	Pass			
0	4.0	1.165	0.0018				-2.5 to 2.5	Pass			
10	4.0	-0.735	-0.0011				-2.5 to 2.5	Pass			
30	4.0	-0.673	-0.0010				-2.5 to 2.5	Pass			
40	4.0	0.945	0.0014				-2.5 to 2.5	Pass			
50	4.0	-1.911	-0.0029				-2.5 to 2.5	Pass			
680.5	25	0	20				3.8	0.585	0.0009	-2.5 to 2.5	Pass
							4.0	1.832	0.0027	-2.5 to 2.5	Pass
							4.2	0.847	0.0012	-2.5 to 2.5	Pass
			-30				4.0	0.855	0.0013	-2.5 to 2.5	Pass
			-20				4.0	1.151	0.0017	-2.5 to 2.5	Pass
			-10				4.0	-1.108	-0.0016	-2.5 to 2.5	Pass
			0				4.0	0.114	0.0002	-2.5 to 2.5	Pass
			10				4.0	1.117	0.0016	-2.5 to 2.5	Pass
			30				4.0	3.484	0.0051	-2.5 to 2.5	Pass
			40	4.0	2.066	0.0030	-2.5 to 2.5	Pass			
			50	4.0	0.741	0.0011	-2.5 to 2.5	Pass			
			695.5	25	0	20	3.8	3.011	0.0043	-2.5 to 2.5	Pass
4.0	1.680	0.0024					-2.5 to 2.5	Pass			



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Report No.: SEWA2310000127RG01

Rev.: 01

Page: 4 of 224

				4.2	1.741	0.0025	-2.5 to 2.5	Pass
				-30	4.0	0.257	-2.5 to 2.5	Pass
				-20	4.0	1.752	-2.5 to 2.5	Pass
				-10	4.0	2.253	-2.5 to 2.5	Pass
				0	4.0	0.266	-2.5 to 2.5	Pass
				10	4.0	0.393	-2.5 to 2.5	Pass
				30	4.0	0.996	-2.5 to 2.5	Pass
				40	4.0	1.609	-2.5 to 2.5	Pass
				50	4.0	0.761	-2.5 to 2.5	Pass



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1.2 B71_10MHz

1.2.1 Test Result

Band: 71 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	668	50	0	20	3.8	3.516	0.0053	-2.5 to 2.5	Pass
					4.0	2.027	0.0030	-2.5 to 2.5	Pass
					4.2	3.106	0.0046	-2.5 to 2.5	Pass
				-30	4.0	2.875	0.0043	-2.5 to 2.5	Pass
				-20	4.0	0.978	0.0015	-2.5 to 2.5	Pass
				-10	4.0	1.428	0.0021	-2.5 to 2.5	Pass
				0	4.0	1.043	0.0016	-2.5 to 2.5	Pass
				10	4.0	1.636	0.0024	-2.5 to 2.5	Pass
				30	4.0	3.498	0.0052	-2.5 to 2.5	Pass
				40	4.0	1.488	0.0022	-2.5 to 2.5	Pass
	50	4.0	-0.789	-0.0012	-2.5 to 2.5	Pass			
	680.5	50	0	20	3.8	0.027	0.0000	-2.5 to 2.5	Pass
					4.0	0.304	0.0004	-2.5 to 2.5	Pass
					4.2	0.296	0.0004	-2.5 to 2.5	Pass
				-30	4.0	0.919	0.0014	-2.5 to 2.5	Pass
				-20	4.0	0.156	0.0002	-2.5 to 2.5	Pass
				-10	4.0	-0.474	-0.0007	-2.5 to 2.5	Pass
				0	4.0	0.731	0.0011	-2.5 to 2.5	Pass
				10	4.0	2.492	0.0037	-2.5 to 2.5	Pass
				30	4.0	2.659	0.0039	-2.5 to 2.5	Pass
				40	4.0	0.628	0.0009	-2.5 to 2.5	Pass
	50	4.0	1.679	0.0025	-2.5 to 2.5	Pass			
	693	50	0	20	3.8	0.957	0.0014	-2.5 to 2.5	Pass
					4.0	0.571	0.0008	-2.5 to 2.5	Pass
					4.2	0.932	0.0013	-2.5 to 2.5	Pass
				-30	4.0	2.590	0.0037	-2.5 to 2.5	Pass
				-20	4.0	1.472	0.0021	-2.5 to 2.5	Pass
				-10	4.0	-0.417	-0.0006	-2.5 to 2.5	Pass
				0	4.0	1.042	0.0015	-2.5 to 2.5	Pass
				10	4.0	1.877	0.0027	-2.5 to 2.5	Pass
30				4.0	2.564	0.0037	-2.5 to 2.5	Pass	
40				4.0	1.142	0.0016	-2.5 to 2.5	Pass	
50	4.0	1.353	0.0020	-2.5 to 2.5	Pass				
16QAM	668	50	0	20	3.8	1.155	0.0017	-2.5 to 2.5	Pass
					4.0	-1.159	-0.0017	-2.5 to 2.5	Pass
					4.2	1.913	0.0029	-2.5 to 2.5	Pass
				-30	4.0	0.633	0.0009	-2.5 to 2.5	Pass
				-20	4.0	-0.107	-0.0002	-2.5 to 2.5	Pass
				-10	4.0	1.341	0.0020	-2.5 to 2.5	Pass
				0	4.0	0.445	0.0007	-2.5 to 2.5	Pass
				10	4.0	1.171	0.0018	-2.5 to 2.5	Pass
				30	4.0	1.307	0.0020	-2.5 to 2.5	Pass



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Rev.: 01

Page: 6 of 224

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				50	4.0	-1.092	-0.0016	-2.5 to 2.5	Pass			
				20	3.8	2.309	0.0034	-2.5 to 2.5	Pass			
					4.0	1.742	0.0026	-2.5 to 2.5	Pass			
					4.2	1.791	0.0026	-2.5 to 2.5	Pass			
				-30	4.0	1.668	0.0025	-2.5 to 2.5	Pass			
				-20	4.0	1.869	0.0027	-2.5 to 2.5	Pass			
				-10	4.0	2.632	0.0039	-2.5 to 2.5	Pass			
				0	4.0	0.164	0.0002	-2.5 to 2.5	Pass			
				10	4.0	0.649	0.0010	-2.5 to 2.5	Pass			
				30	4.0	-0.049	-0.0001	-2.5 to 2.5	Pass			
				40	4.0	1.653	0.0024	-2.5 to 2.5	Pass			
				50	4.0	1.941	0.0029	-2.5 to 2.5	Pass			
				693	50	0	20	3.8	0.433	0.0006	-2.5 to 2.5	Pass
	4.0	-0.611	-0.0009					-2.5 to 2.5	Pass			
	4.2	0.240	0.0003					-2.5 to 2.5	Pass			
	-30	4.0	1.246				0.0018	-2.5 to 2.5	Pass			
	-20	4.0	2.284				0.0033	-2.5 to 2.5	Pass			
	-10	4.0	1.382				0.0020	-2.5 to 2.5	Pass			
	0	4.0	3.340				0.0048	-2.5 to 2.5	Pass			
	10	4.0	2.657				0.0038	-2.5 to 2.5	Pass			
	30	4.0	1.493				0.0022	-2.5 to 2.5	Pass			
	40	4.0	0.502				0.0007	-2.5 to 2.5	Pass			
	50	4.0	-0.235				-0.0003	-2.5 to 2.5	Pass			
	668	50	0				20	3.8	-0.969	-0.0015	-2.5 to 2.5	Pass
								4.0	0.865	0.0013	-2.5 to 2.5	Pass
								4.2	0.518	0.0008	-2.5 to 2.5	Pass
				-30	4.0	-1.474	-0.0022	-2.5 to 2.5	Pass			
-20				4.0	-0.502	-0.0008	-2.5 to 2.5	Pass				
-10				4.0	-0.013	0.0000	-2.5 to 2.5	Pass				
0				4.0	-0.389	-0.0006	-2.5 to 2.5	Pass				
10				4.0	-0.157	-0.0002	-2.5 to 2.5	Pass				
30				4.0	1.636	0.0024	-2.5 to 2.5	Pass				
40				4.0	1.646	0.0025	-2.5 to 2.5	Pass				
50				4.0	1.436	0.0021	-2.5 to 2.5	Pass				
680.5				50	0	20	3.8	2.227	0.0033	-2.5 to 2.5	Pass	
							4.0	2.115	0.0031	-2.5 to 2.5	Pass	
							4.2	-0.744	-0.0011	-2.5 to 2.5	Pass	
	-30	4.0	0.699			0.0010	-2.5 to 2.5	Pass				
	-20	4.0	1.095			0.0016	-2.5 to 2.5	Pass				
	-10	4.0	1.693			0.0025	-2.5 to 2.5	Pass				
	0	4.0	1.442			0.0021	-2.5 to 2.5	Pass				
	10	4.0	1.332			0.0020	-2.5 to 2.5	Pass				
	30	4.0	2.217			0.0033	-2.5 to 2.5	Pass				
	40	4.0	3.060			0.0045	-2.5 to 2.5	Pass				
	50	4.0	2.249			0.0033	-2.5 to 2.5	Pass				
	693	50	0			20	3.8	0.328	0.0005	-2.5 to 2.5	Pass	
							4.0	0.781	0.0011	-2.5 to 2.5	Pass	
							4.2	1.034	0.0015	-2.5 to 2.5	Pass	
-30				4.0	1.011	0.0015	-2.5 to 2.5	Pass				



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Report No.: SEWA2310000127RG01

Rev.: 01

Page: 7 of 224

				-20	4.0	1.849	0.0027	-2.5 to 2.5	Pass
				-10	4.0	0.535	0.0008	-2.5 to 2.5	Pass
				0	4.0	0.598	0.0009	-2.5 to 2.5	Pass
				10	4.0	-0.147	-0.0002	-2.5 to 2.5	Pass
				30	4.0	-0.168	-0.0002	-2.5 to 2.5	Pass
				40	4.0	0.964	0.0014	-2.5 to 2.5	Pass
				50	4.0	1.532	0.0022	-2.5 to 2.5	Pass



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1.3 B71_15MHz

1.3.1 Test Result

Band: 71 / Bandwidth: 15MHz												
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict			
		Size	Offset				Result	Limit				
QPSK	670.5	75	0	20	3.8	2.955	0.0044	-2.5 to 2.5	Pass			
					4.0	-0.197	-0.0003	-2.5 to 2.5	Pass			
					4.2	3.146	0.0047	-2.5 to 2.5	Pass			
				-30	4.0	0.592	0.0009	-2.5 to 2.5	Pass			
					-20	4.0	0.374	0.0006	-2.5 to 2.5	Pass		
						4.0	1.223	0.0018	-2.5 to 2.5	Pass		
				0	4.0	2.146	0.0032	-2.5 to 2.5	Pass			
					4.0	0.323	0.0005	-2.5 to 2.5	Pass			
				30	4.0	0.670	0.0010	-2.5 to 2.5	Pass			
					4.0	0.648	0.0010	-2.5 to 2.5	Pass			
				50	4.0	1.427	0.0021	-2.5 to 2.5	Pass			
					4.0	2.331	0.0034	-2.5 to 2.5	Pass			
				680.5	75	0	20	4.0	1.290	0.0019	-2.5 to 2.5	Pass
								4.2	-1.080	-0.0016	-2.5 to 2.5	Pass
								4.0	1.238	0.0018	-2.5 to 2.5	Pass
	-30	4.0	0.715				0.0011	-2.5 to 2.5	Pass			
		4.0	-0.186				-0.0003	-2.5 to 2.5	Pass			
	-20	4.0	-0.826				-0.0012	-2.5 to 2.5	Pass			
		4.0	1.307				0.0019	-2.5 to 2.5	Pass			
	-10	4.0	0.064				0.0001	-2.5 to 2.5	Pass			
		4.0	0.292				0.0004	-2.5 to 2.5	Pass			
	0	4.0	-1.100				-0.0016	-2.5 to 2.5	Pass			
		4.0	0.396				0.0006	-2.5 to 2.5	Pass			
	690.5	75	0				20	4.0	1.021	0.0015	-2.5 to 2.5	Pass
								4.2	-0.325	-0.0005	-2.5 to 2.5	Pass
								4.0	1.818	0.0026	-2.5 to 2.5	Pass
							-30	4.0	0.356	0.0005	-2.5 to 2.5	Pass
				4.0	1.686	0.0024		-2.5 to 2.5	Pass			
				-20	4.0	-0.237	-0.0003	-2.5 to 2.5	Pass			
					4.0	1.194	0.0017	-2.5 to 2.5	Pass			
-10				4.0	0.361	0.0005	-2.5 to 2.5	Pass				
				4.0	1.606	0.0023	-2.5 to 2.5	Pass				
0				4.0	1.121	0.0016	-2.5 to 2.5	Pass				
				4.0	2.197	0.0033	-2.5 to 2.5	Pass				
16QAM				670.5	75	0	20	4.0	2.590	0.0039	-2.5 to 2.5	Pass
								4.2	-0.274	-0.0004	-2.5 to 2.5	Pass
								4.0	0.831	0.0012	-2.5 to 2.5	Pass
							-30	4.0	2.162	0.0032	-2.5 to 2.5	Pass
	4.0	1.123	0.0017					-2.5 to 2.5	Pass			
	-20	4.0	0.746				0.0011	-2.5 to 2.5	Pass			
		4.0	1.864				0.0028	-2.5 to 2.5	Pass			
	-10	4.0	-1.065				-0.0016	-2.5 to 2.5	Pass			
		4.0	-1.065				-0.0016	-2.5 to 2.5	Pass			



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Report No.: SEWA2310000127RG01

Rev.: 01

Page: 9 of 224

64QAM	680.5	75	0	40	4.0	2.014	0.0030	-2.5 to 2.5	Pass
				50	4.0	0.990	0.0015	-2.5 to 2.5	Pass
				20	3.8	2.498	0.0037	-2.5 to 2.5	Pass
					4.0	0.201	0.0003	-2.5 to 2.5	Pass
					4.2	-1.124	-0.0017	-2.5 to 2.5	Pass
				-30	4.0	0.810	0.0012	-2.5 to 2.5	Pass
				-20	4.0	-1.154	-0.0017	-2.5 to 2.5	Pass
				-10	4.0	0.366	0.0005	-2.5 to 2.5	Pass
				0	4.0	-0.382	-0.0006	-2.5 to 2.5	Pass
				10	4.0	0.723	0.0011	-2.5 to 2.5	Pass
				30	4.0	-1.257	-0.0018	-2.5 to 2.5	Pass
				40	4.0	0.191	0.0003	-2.5 to 2.5	Pass
	50	4.0	0.469	0.0007	-2.5 to 2.5	Pass			
	690.5	75	0	20	3.8	2.095	0.0030	-2.5 to 2.5	Pass
					4.0	2.648	0.0038	-2.5 to 2.5	Pass
					4.2	2.563	0.0037	-2.5 to 2.5	Pass
				-30	4.0	-0.736	-0.0011	-2.5 to 2.5	Pass
				-20	4.0	1.478	0.0021	-2.5 to 2.5	Pass
				-10	4.0	1.114	0.0016	-2.5 to 2.5	Pass
				0	4.0	0.162	0.0002	-2.5 to 2.5	Pass
				10	4.0	0.791	0.0011	-2.5 to 2.5	Pass
				30	4.0	0.814	0.0012	-2.5 to 2.5	Pass
				40	4.0	0.757	0.0011	-2.5 to 2.5	Pass
				50	4.0	-1.435	-0.0021	-2.5 to 2.5	Pass
64QAM				670.5	75	0	20	3.8	0.680
	4.0	1.921	0.0029					-2.5 to 2.5	Pass
	4.2	1.423	0.0021					-2.5 to 2.5	Pass
	-30	4.0	2.456				0.0037	-2.5 to 2.5	Pass
	-20	4.0	1.493				0.0022	-2.5 to 2.5	Pass
	-10	4.0	0.877				0.0013	-2.5 to 2.5	Pass
	0	4.0	0.763				0.0011	-2.5 to 2.5	Pass
	10	4.0	0.212				0.0003	-2.5 to 2.5	Pass
	30	4.0	0.661				0.0010	-2.5 to 2.5	Pass
	40	4.0	2.780				0.0041	-2.5 to 2.5	Pass
	50	4.0	1.477				0.0022	-2.5 to 2.5	Pass
	680.5	75	0				20	3.8	-0.769
				4.0	-0.082	-0.0001		-2.5 to 2.5	Pass
				4.2	-1.624	-0.0024		-2.5 to 2.5	Pass
				-30	4.0	-0.130	-0.0002	-2.5 to 2.5	Pass
				-20	4.0	-1.249	-0.0018	-2.5 to 2.5	Pass
				-10	4.0	-0.756	-0.0011	-2.5 to 2.5	Pass
				0	4.0	0.416	0.0006	-2.5 to 2.5	Pass
				10	4.0	-0.193	-0.0003	-2.5 to 2.5	Pass
				30	4.0	0.475	0.0007	-2.5 to 2.5	Pass
				40	4.0	1.458	0.0021	-2.5 to 2.5	Pass
				50	4.0	1.839	0.0027	-2.5 to 2.5	Pass
				690.5	75	0	20	3.8	-0.515
	4.0	-0.177	-0.0003					-2.5 to 2.5	Pass
4.2	0.182	0.0003	-2.5 to 2.5					Pass	
-30	4.0	0.343	0.0005				-2.5 to 2.5	Pass	



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Report No.: SEWA2310000127RG01

Rev.: 01

Page: 10 of 224

				-20	4.0	-0.798	-0.0012	-2.5 to 2.5	Pass
				-10	4.0	0.359	0.0005	-2.5 to 2.5	Pass
				0	4.0	0.870	0.0013	-2.5 to 2.5	Pass
				10	4.0	0.169	0.0002	-2.5 to 2.5	Pass
				30	4.0	1.086	0.0016	-2.5 to 2.5	Pass
				40	4.0	0.558	0.0008	-2.5 to 2.5	Pass
				50	4.0	0.912	0.0013	-2.5 to 2.5	Pass



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1.4 B71_20MHz

1.4.1 Test Result

Band: 71 / Bandwidth: 20MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	673	100	0	20	3.8	1.102	0.0016	-2.5 to 2.5	Pass
					4.0	1.726	0.0026	-2.5 to 2.5	Pass
					4.2	-0.897	-0.0013	-2.5 to 2.5	Pass
				-30	4.0	3.086	0.0046	-2.5 to 2.5	Pass
				-20	4.0	0.351	0.0005	-2.5 to 2.5	Pass
				-10	4.0	2.106	0.0031	-2.5 to 2.5	Pass
				0	4.0	-0.602	-0.0009	-2.5 to 2.5	Pass
				10	4.0	0.730	0.0011	-2.5 to 2.5	Pass
				30	4.0	2.798	0.0042	-2.5 to 2.5	Pass
				40	4.0	2.059	0.0031	-2.5 to 2.5	Pass
	50	4.0	-0.087	-0.0001	-2.5 to 2.5	Pass			
	683	100	0	20	3.8	-0.525	-0.0008	-2.5 to 2.5	Pass
					4.0	-0.784	-0.0011	-2.5 to 2.5	Pass
					4.2	-0.548	-0.0008	-2.5 to 2.5	Pass
				-30	4.0	0.316	0.0005	-2.5 to 2.5	Pass
				-20	4.0	-1.703	-0.0025	-2.5 to 2.5	Pass
				-10	4.0	-0.737	-0.0011	-2.5 to 2.5	Pass
				0	4.0	-0.502	-0.0007	-2.5 to 2.5	Pass
				10	4.0	0.510	0.0007	-2.5 to 2.5	Pass
				30	4.0	-0.648	-0.0009	-2.5 to 2.5	Pass
				40	4.0	0.263	0.0004	-2.5 to 2.5	Pass
	50	4.0	0.094	0.0001	-2.5 to 2.5	Pass			
	688	100	0	20	3.8	2.149	0.0031	-2.5 to 2.5	Pass
					4.0	0.514	0.0007	-2.5 to 2.5	Pass
					4.2	0.759	0.0011	-2.5 to 2.5	Pass
				-30	4.0	1.346	0.0020	-2.5 to 2.5	Pass
				-20	4.0	1.226	0.0018	-2.5 to 2.5	Pass
				-10	4.0	0.135	0.0002	-2.5 to 2.5	Pass
				0	4.0	-0.966	-0.0014	-2.5 to 2.5	Pass
				10	4.0	-0.113	-0.0002	-2.5 to 2.5	Pass
30				4.0	-0.513	-0.0007	-2.5 to 2.5	Pass	
40				4.0	0.256	0.0004	-2.5 to 2.5	Pass	
50	4.0	0.747	0.0011	-2.5 to 2.5	Pass				
16QAM	673	100	0	20	3.8	2.367	0.0035	-2.5 to 2.5	Pass
					4.0	0.213	0.0003	-2.5 to 2.5	Pass
					4.2	1.902	0.0028	-2.5 to 2.5	Pass
				-30	4.0	1.213	0.0018	-2.5 to 2.5	Pass
				-20	4.0	1.230	0.0018	-2.5 to 2.5	Pass
				-10	4.0	-0.410	-0.0006	-2.5 to 2.5	Pass
				0	4.0	0.659	0.0010	-2.5 to 2.5	Pass
				10	4.0	0.882	0.0013	-2.5 to 2.5	Pass
				30	4.0	-0.245	-0.0004	-2.5 to 2.5	Pass



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

Report No.: SEWA2310000127RG01

Rev.: 01

Page: 12 of 224

64QAM	683	100	0	40	4.0	1.796	0.0027	-2.5 to 2.5	Pass
				50	4.0	0.678	0.0010	-2.5 to 2.5	Pass
				20	3.8	0.458	0.0007	-2.5 to 2.5	Pass
					4.0	1.836	0.0027	-2.5 to 2.5	Pass
					4.2	-0.097	-0.0001	-2.5 to 2.5	Pass
				-30	4.0	0.584	0.0009	-2.5 to 2.5	Pass
				-20	4.0	0.331	0.0005	-2.5 to 2.5	Pass
				-10	4.0	-0.567	-0.0008	-2.5 to 2.5	Pass
				0	4.0	-0.013	0.0000	-2.5 to 2.5	Pass
				10	4.0	0.037	0.0001	-2.5 to 2.5	Pass
				30	4.0	-0.139	-0.0002	-2.5 to 2.5	Pass
				40	4.0	1.147	0.0017	-2.5 to 2.5	Pass
	50	4.0	0.416	0.0006	-2.5 to 2.5	Pass			
	688	100	0	20	3.8	0.270	0.0004	-2.5 to 2.5	Pass
					4.0	-0.469	-0.0007	-2.5 to 2.5	Pass
					4.2	1.288	0.0019	-2.5 to 2.5	Pass
				-30	4.0	0.031	0.0000	-2.5 to 2.5	Pass
				-20	4.0	0.502	0.0007	-2.5 to 2.5	Pass
				-10	4.0	0.284	0.0004	-2.5 to 2.5	Pass
				0	4.0	0.753	0.0011	-2.5 to 2.5	Pass
				10	4.0	0.361	0.0005	-2.5 to 2.5	Pass
				30	4.0	0.120	0.0002	-2.5 to 2.5	Pass
				40	4.0	1.359	0.0020	-2.5 to 2.5	Pass
				50	4.0	-0.392	-0.0006	-2.5 to 2.5	Pass
673				100	0	20	3.8	0.832	0.0012
	4.0	1.020	0.0015				-2.5 to 2.5	Pass	
	4.2	0.227	0.0003				-2.5 to 2.5	Pass	
	-30	4.0	0.034			0.0001	-2.5 to 2.5	Pass	
	-20	4.0	0.974			0.0014	-2.5 to 2.5	Pass	
	-10	4.0	1.162			0.0017	-2.5 to 2.5	Pass	
	0	4.0	1.280			0.0019	-2.5 to 2.5	Pass	
	10	4.0	0.775			0.0012	-2.5 to 2.5	Pass	
	30	4.0	0.335			0.0005	-2.5 to 2.5	Pass	
	40	4.0	0.373			0.0006	-2.5 to 2.5	Pass	
	50	4.0	-0.129			-0.0002	-2.5 to 2.5	Pass	
	683	100	0			20	3.8	0.324	0.0005
4.0				0.775	0.0011		-2.5 to 2.5	Pass	
4.2				0.761	0.0011		-2.5 to 2.5	Pass	
-30				4.0	1.387	0.0020	-2.5 to 2.5	Pass	
-20				4.0	-1.188	-0.0017	-2.5 to 2.5	Pass	
-10				4.0	0.658	0.0010	-2.5 to 2.5	Pass	
0				4.0	-0.455	-0.0007	-2.5 to 2.5	Pass	
10				4.0	1.892	0.0028	-2.5 to 2.5	Pass	
30				4.0	-0.259	-0.0004	-2.5 to 2.5	Pass	
40				4.0	-0.336	-0.0005	-2.5 to 2.5	Pass	
50				4.0	1.016	0.0015	-2.5 to 2.5	Pass	
688				100	0	20	3.8	1.278	0.0019
	4.0	0.962	0.0014				-2.5 to 2.5	Pass	
	4.2	0.413	0.0006				-2.5 to 2.5	Pass	
	-30	4.0	-1.583			-0.0023	-2.5 to 2.5	Pass	



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Report No.: SEWA2310000127RG01

Rev.: 01

Page: 13 of 224

				-20	4.0	0.310	0.0005	-2.5 to 2.5	Pass
				-10	4.0	-1.023	-0.0015	-2.5 to 2.5	Pass
				0	4.0	-1.463	-0.0021	-2.5 to 2.5	Pass
				10	4.0	0.600	0.0009	-2.5 to 2.5	Pass
				30	4.0	0.138	0.0002	-2.5 to 2.5	Pass
				40	4.0	0.246	0.0004	-2.5 to 2.5	Pass
				50	4.0	-1.078	-0.0016	-2.5 to 2.5	Pass



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2. 99% & 26dB Bandwidth

2.1 Band71_OBW

2.1.1 Test Result

Band: 71 / NTV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	665.5	25	0	4.540	/	Pass
		680.5	25	0	4.540	/	Pass
		695.5	25	0	4.568	/	Pass
	16QAM	665.5	25	0	4.565	/	Pass
		680.5	25	0	4.544	/	Pass
		695.5	25	0	4.547	/	Pass
	64QAM	665.5	25	0	4.554	/	Pass
		680.5	25	0	4.535	/	Pass
		695.5	25	0	4.547	/	Pass
10	QPSK	668	50	0	9.054	/	Pass
		680.5	50	0	9.038	/	Pass
		693	50	0	9.052	/	Pass
	16QAM	668	50	0	9.055	/	Pass
		680.5	50	0	9.029	/	Pass
		693	50	0	9.049	/	Pass
	64QAM	668	50	0	9.037	/	Pass
		680.5	50	0	9.006	/	Pass
		693	50	0	9.066	/	Pass
15	QPSK	670.5	75	0	13.586	/	Pass
		680.5	75	0	13.542	/	Pass
		690.5	75	0	13.585	/	Pass
	16QAM	670.5	75	0	13.589	/	Pass
		680.5	75	0	13.505	/	Pass
		690.5	75	0	13.603	/	Pass
	64QAM	670.5	75	0	13.552	/	Pass
		680.5	75	0	13.558	/	Pass
		690.5	75	0	13.612	/	Pass
20	QPSK	673	100	0	18.061	/	Pass
		683	100	0	18.065	/	Pass
		688	100	0	18.087	/	Pass
	16QAM	673	100	0	17.990	/	Pass
		683	100	0	18.063	/	Pass
		688	100	0	18.095	/	Pass
	64QAM	673	100	0	17.993	/	Pass
		683	100	0	18.064	/	Pass
		688	100	0	18.094	/	Pass

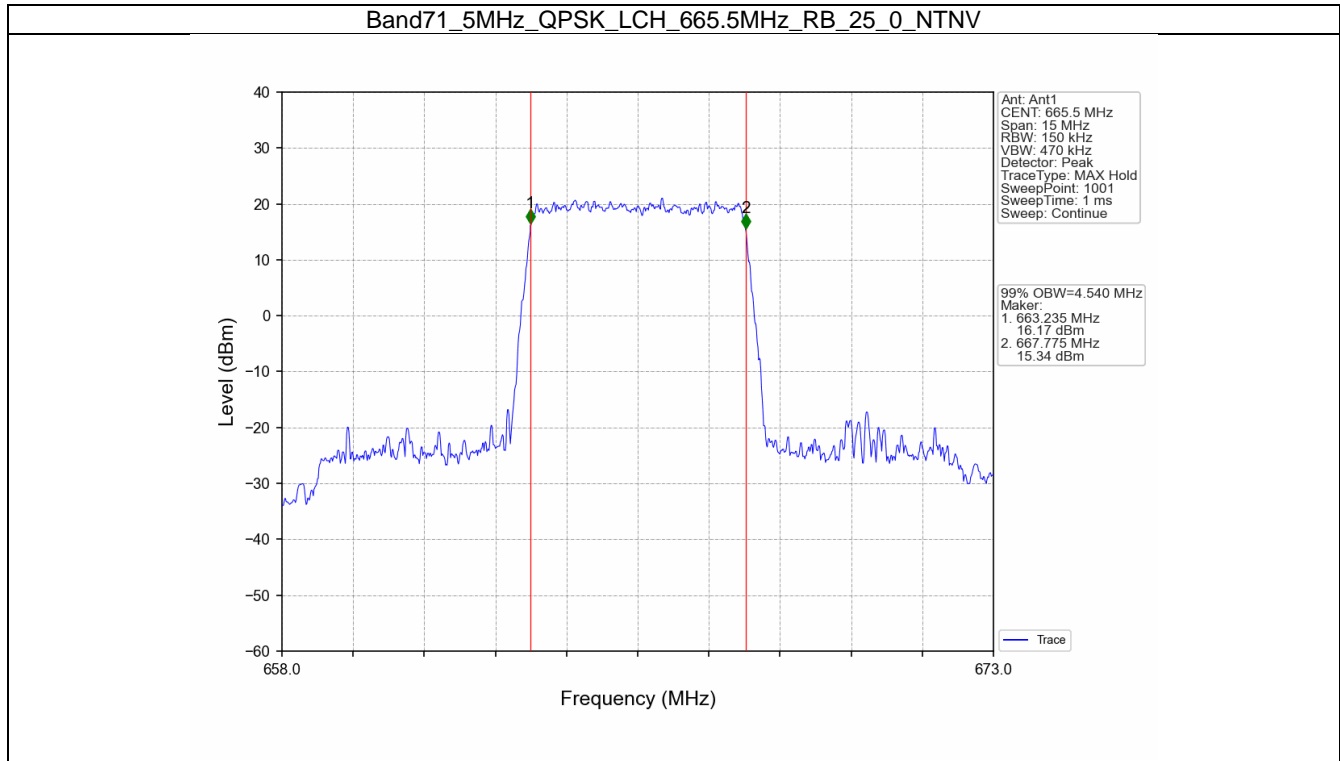


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2.1.2 Test Graph



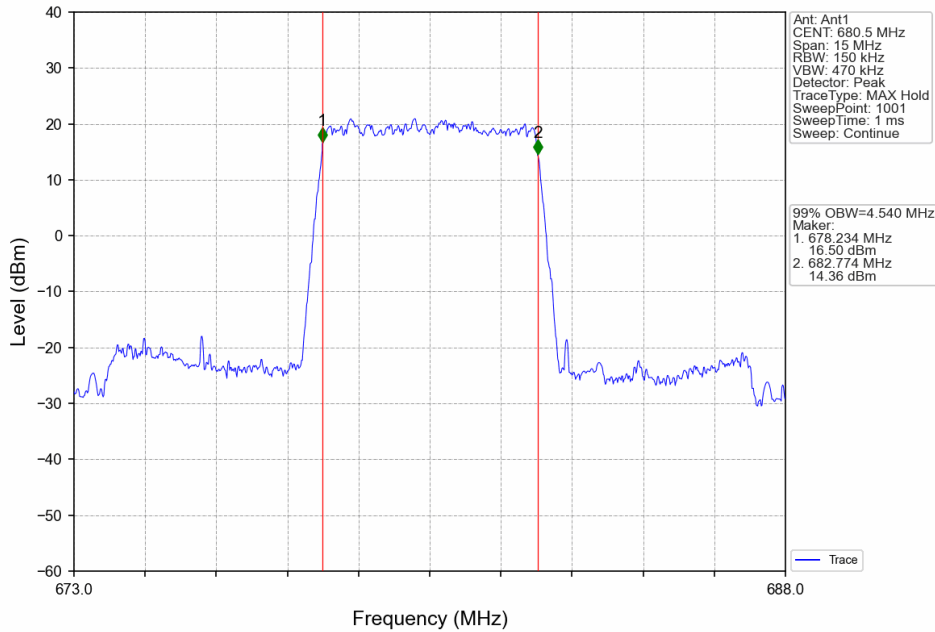
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Band71_5MHz_QPSK_MCH_680.5MHz_RB_25_0_NTNV



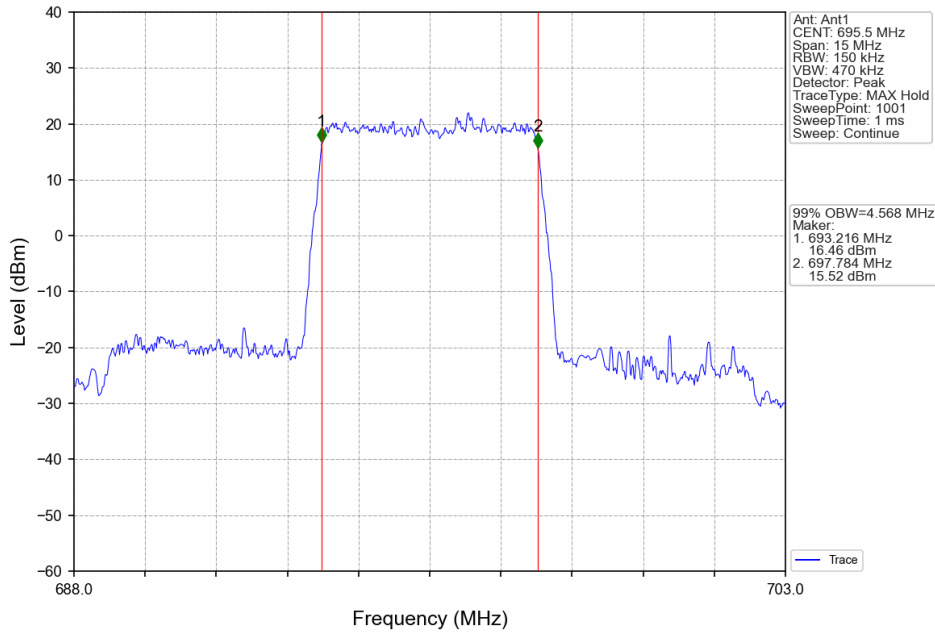
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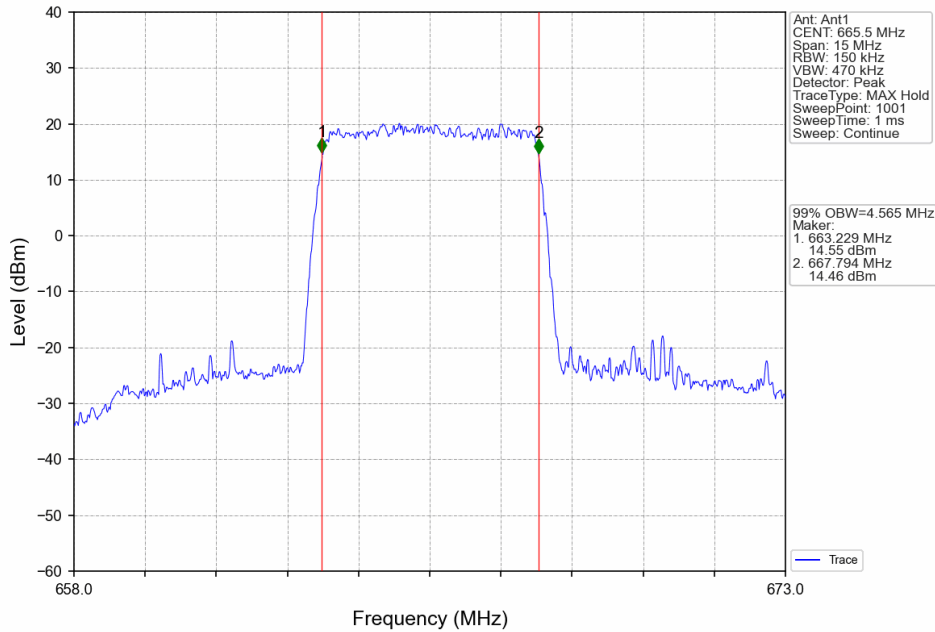
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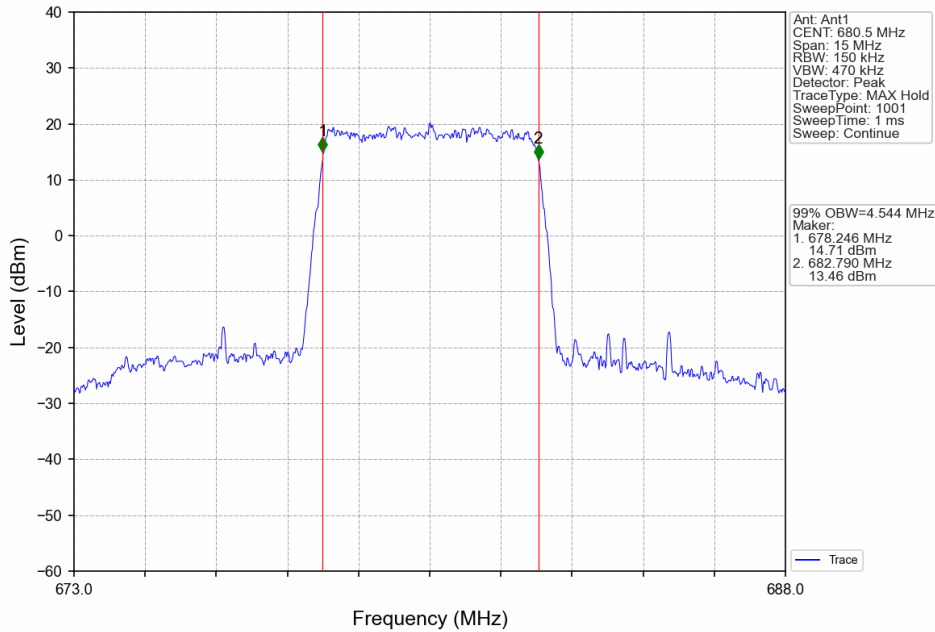


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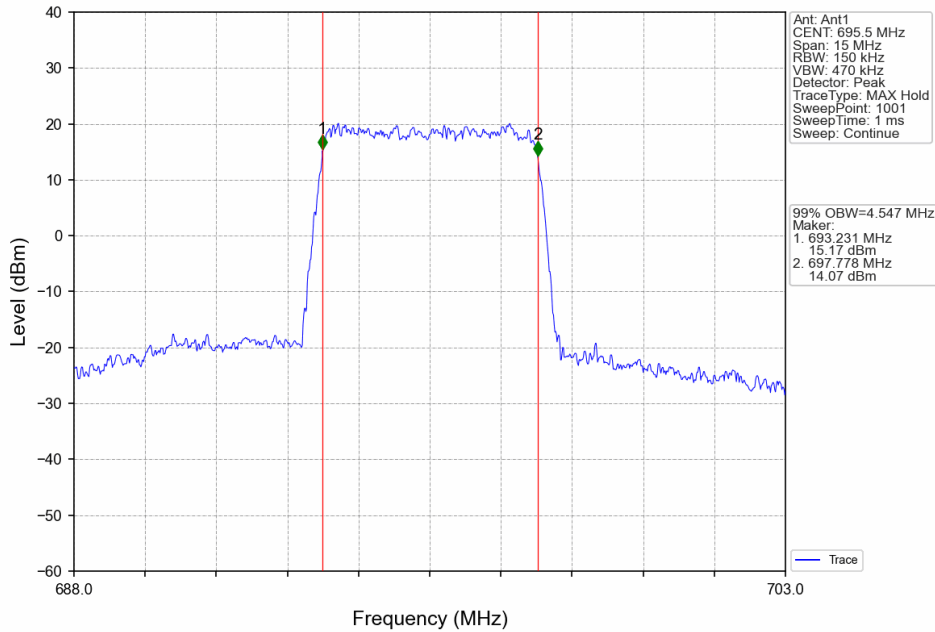
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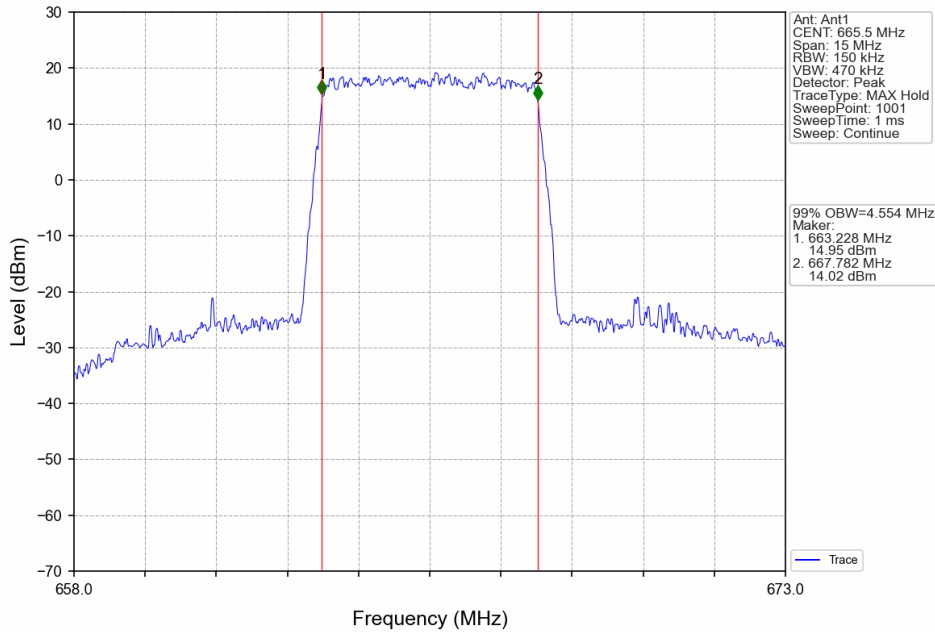
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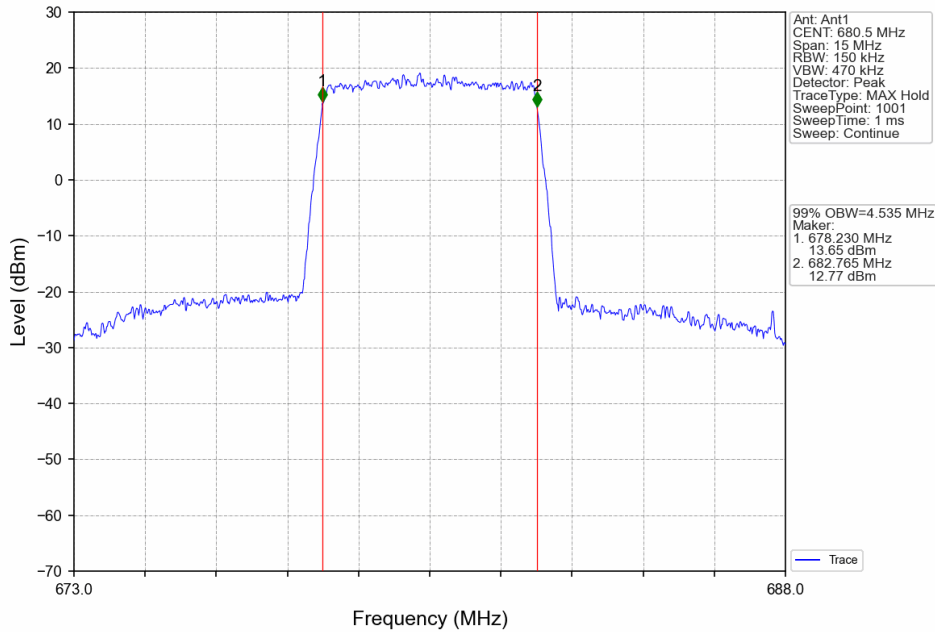


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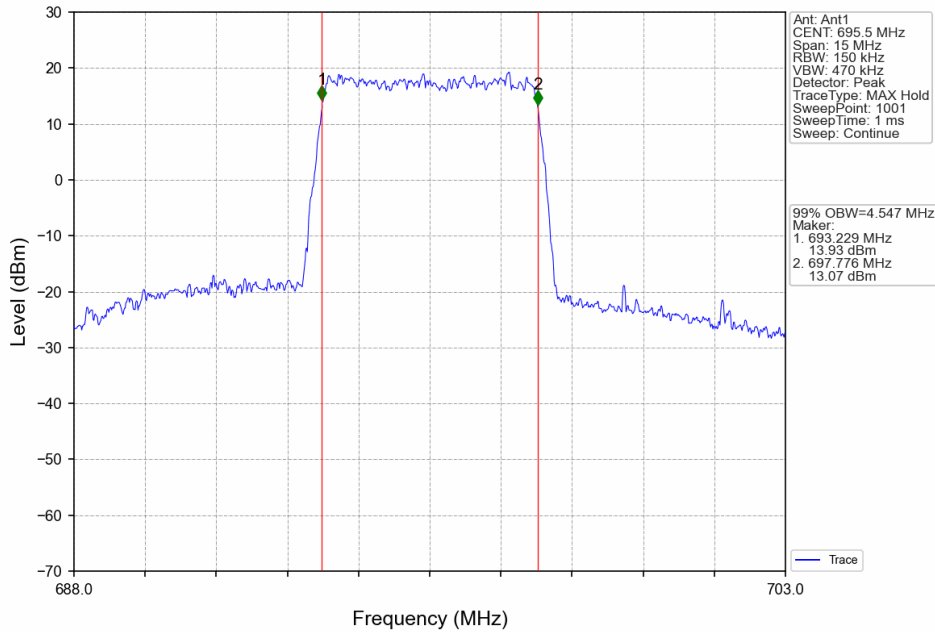
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Band71_5MHz_64QAM_HCH_695.5MHz_RB_25_0_NTNV



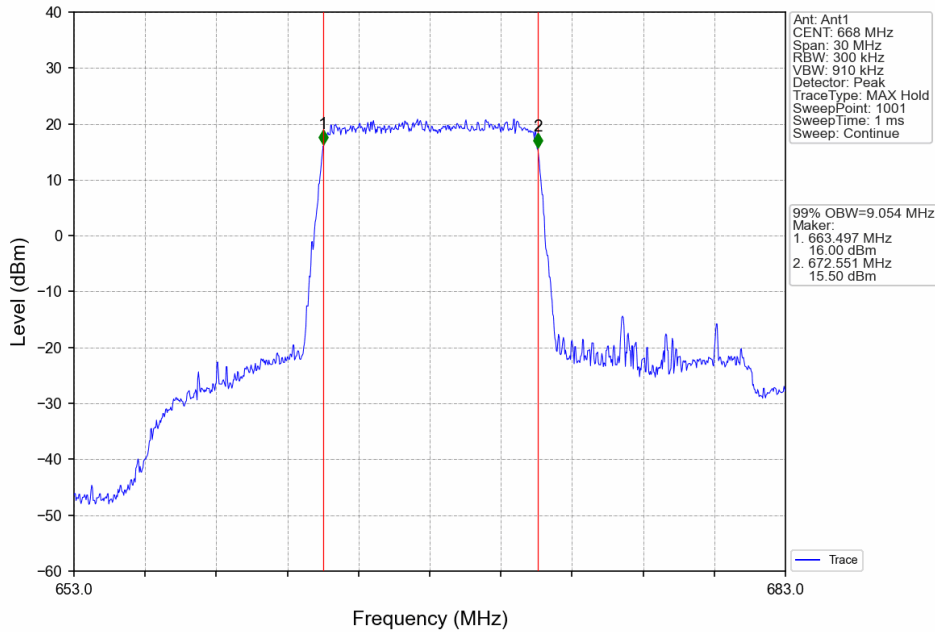
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Band71_10MHz_QPSK_LCH_668MHz_RB_50_0_NTNV

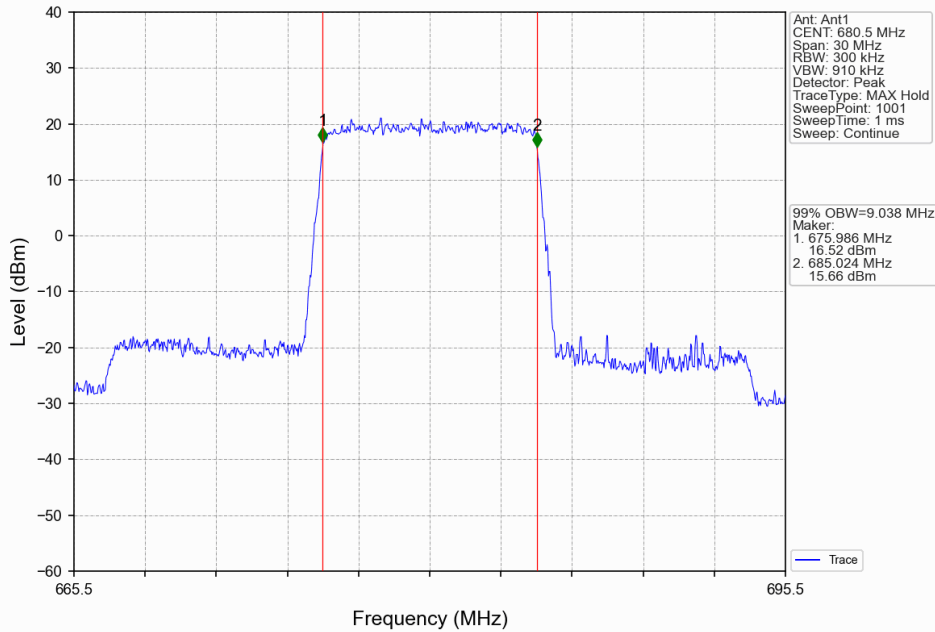


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Band71_10MHz_QPSK_MCH_680.5MHz_RB_50_0_NTNV



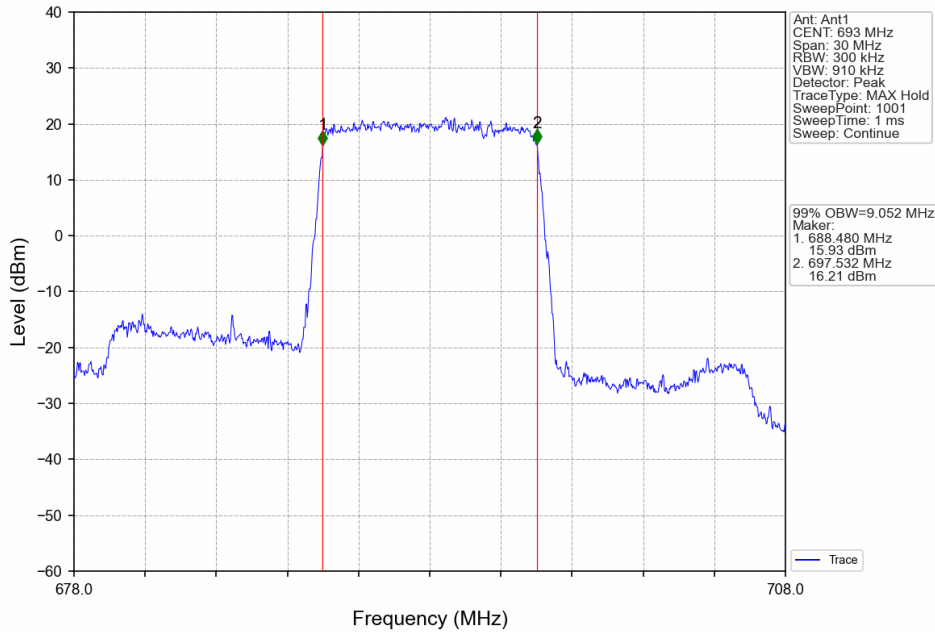
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Band71_10MHz_QPSK_HCH_693MHz_RB_50_0_NTNV



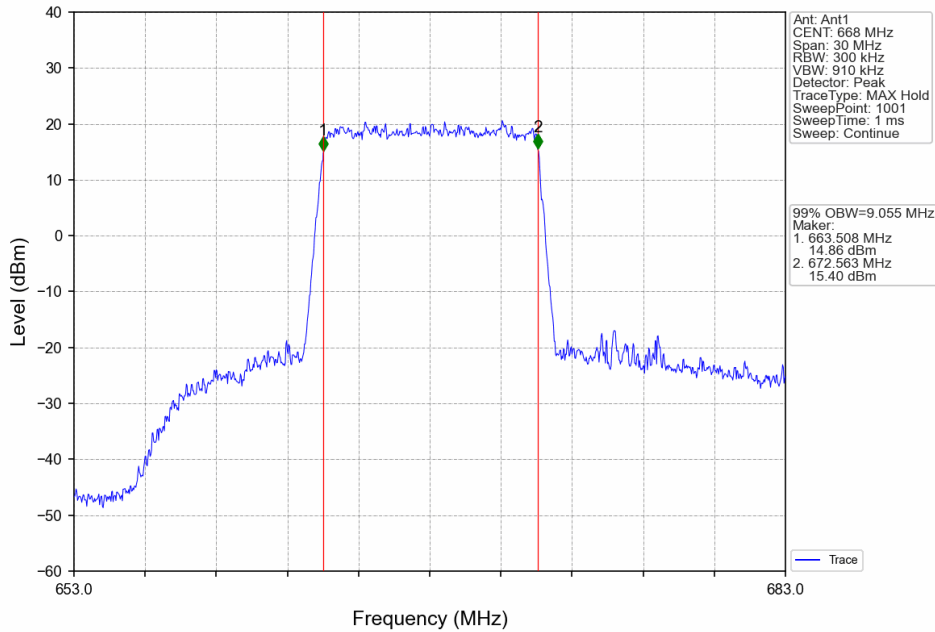
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Band71_10MHz_16QAM_LCH_668MHz_RB_50_0_NTNV

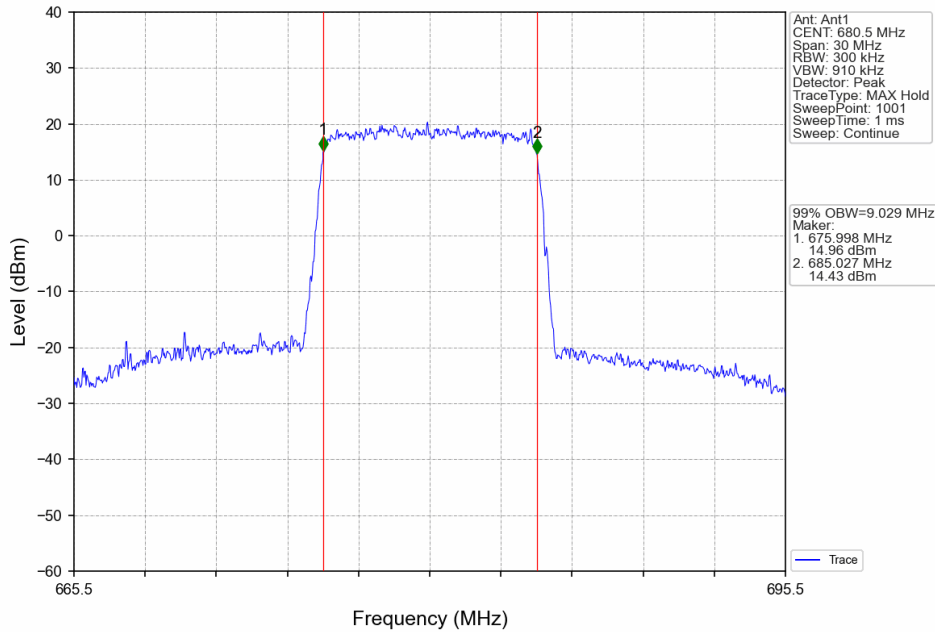


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Band71_10MHz_16QAM_MCH_680.5MHz_RB_50_0_NTNV

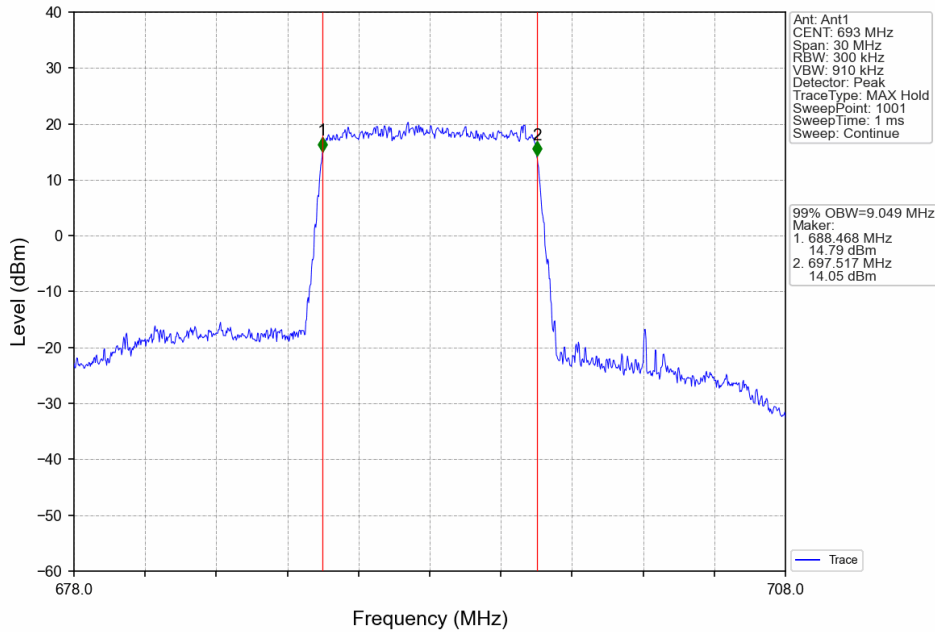


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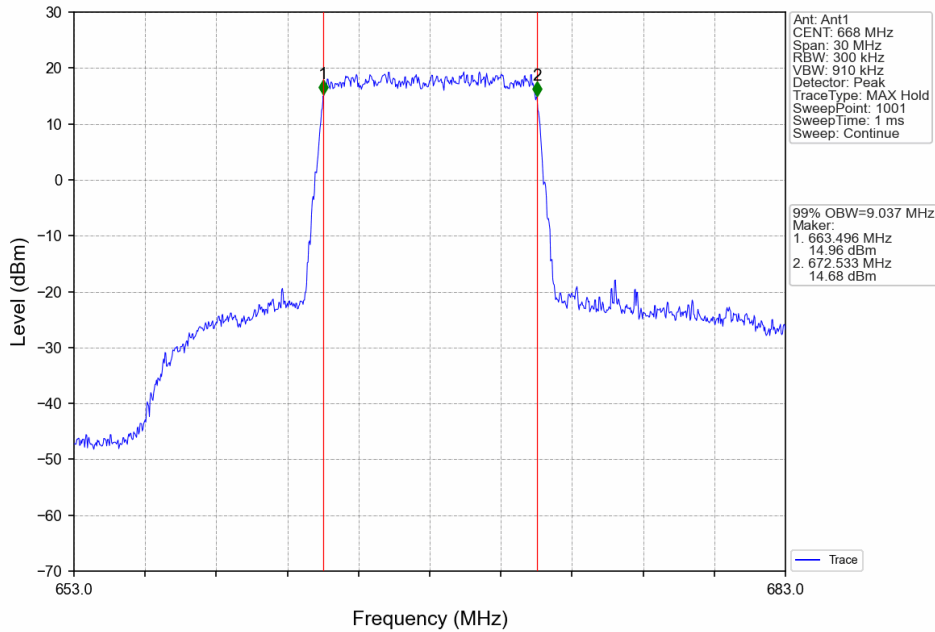


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Band71_10MHz_64QAM_LCH_668MHz_RB_50_0_NTNV



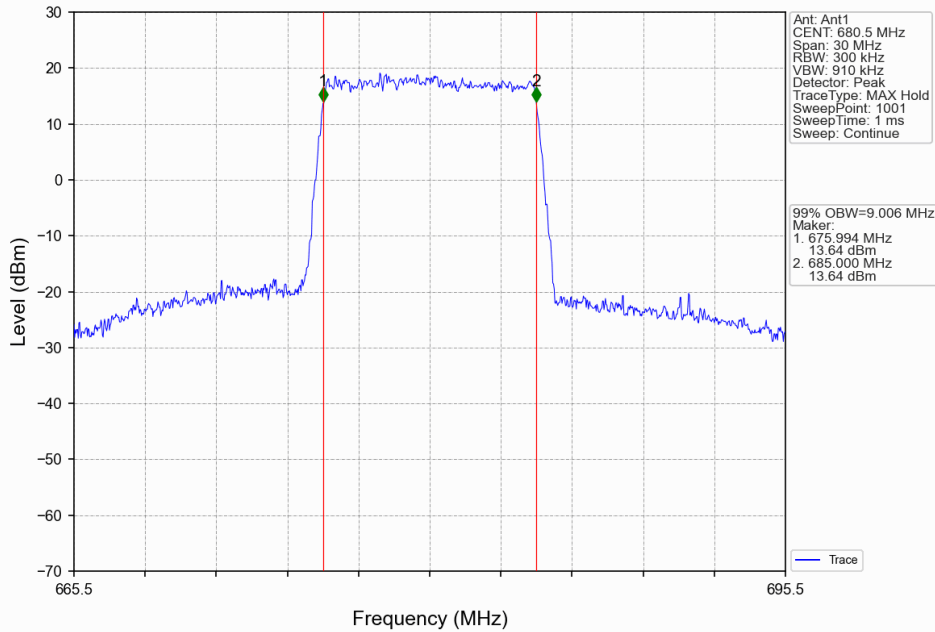
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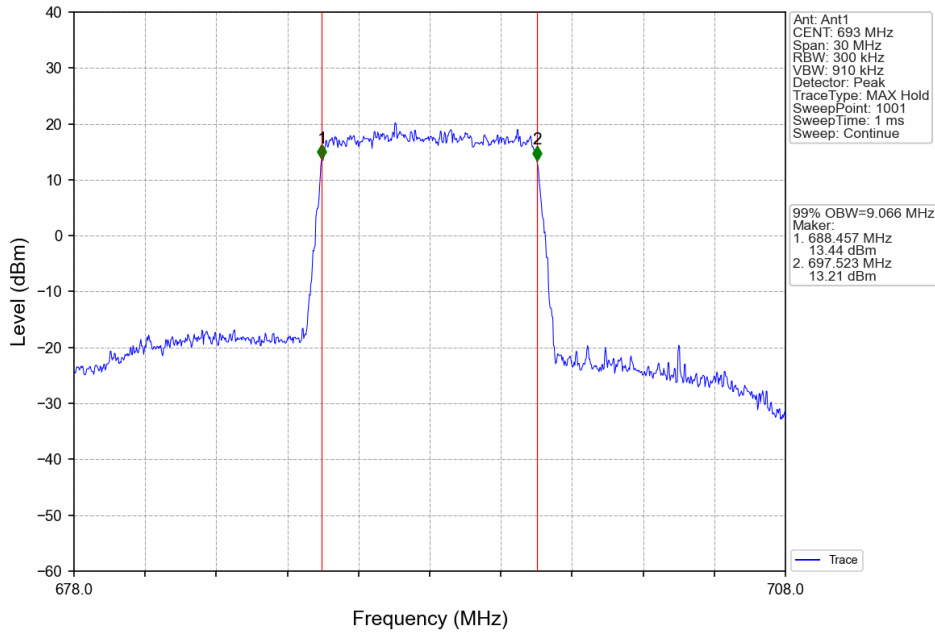
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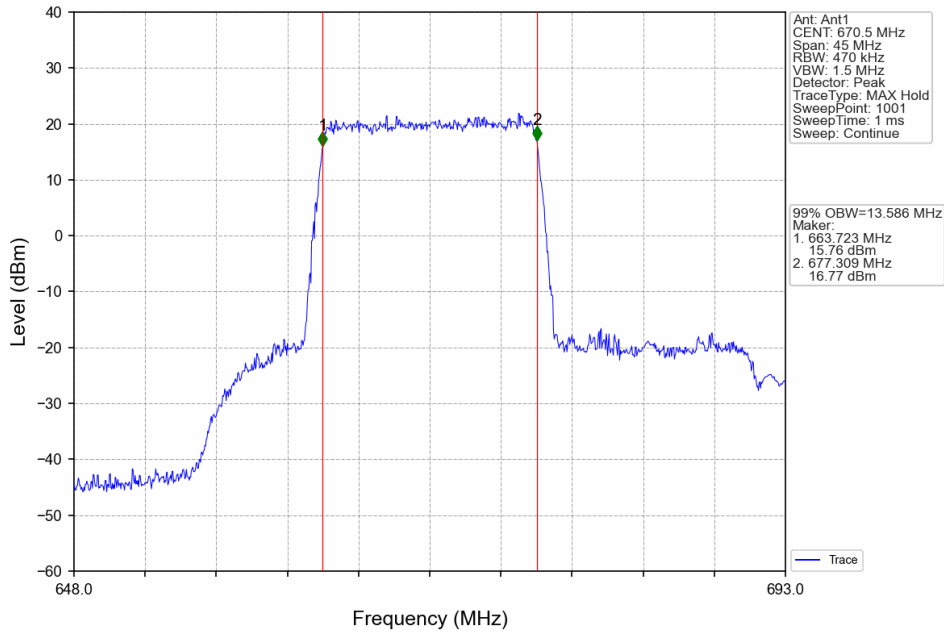


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Band71_15MHz_QPSK_LCH_670.5MHz_RB_75_0_NTNV



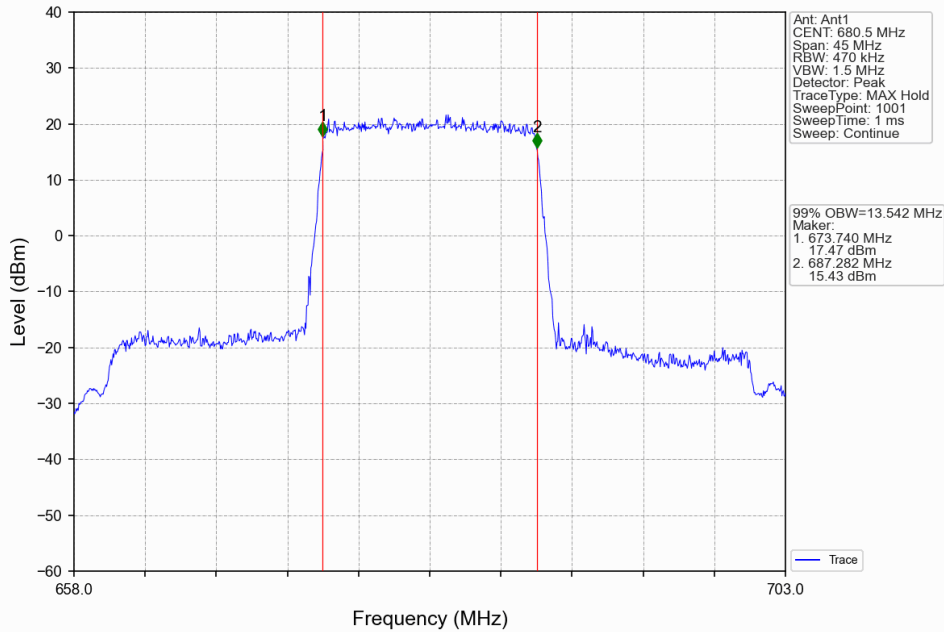
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Band71_15MHz_QPSK_MCH_680.5MHz_RB_75_0_NTNV

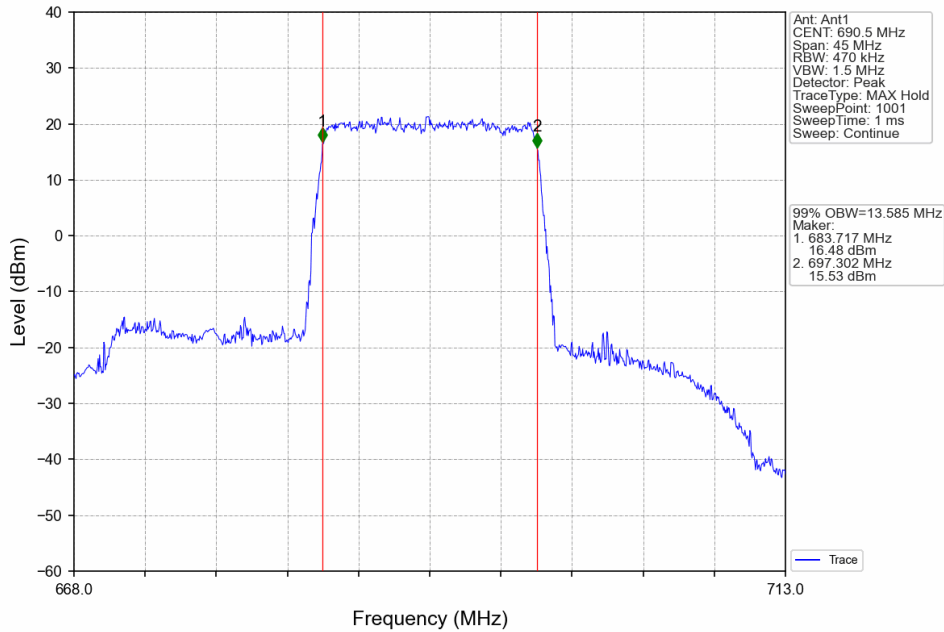


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Band71_15MHz_QPSK_HCH_690.5MHz_RB_75_0_NTNV

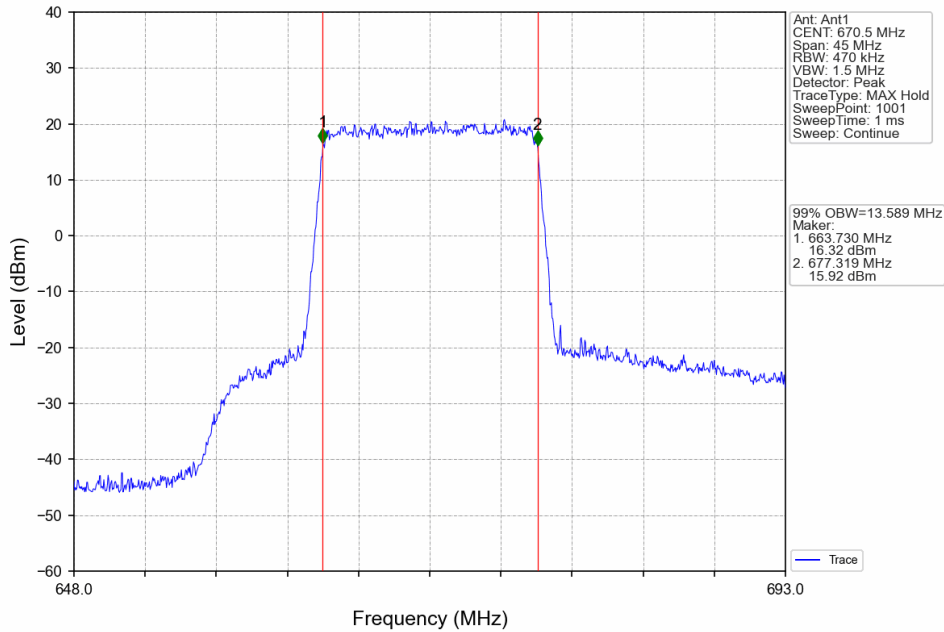


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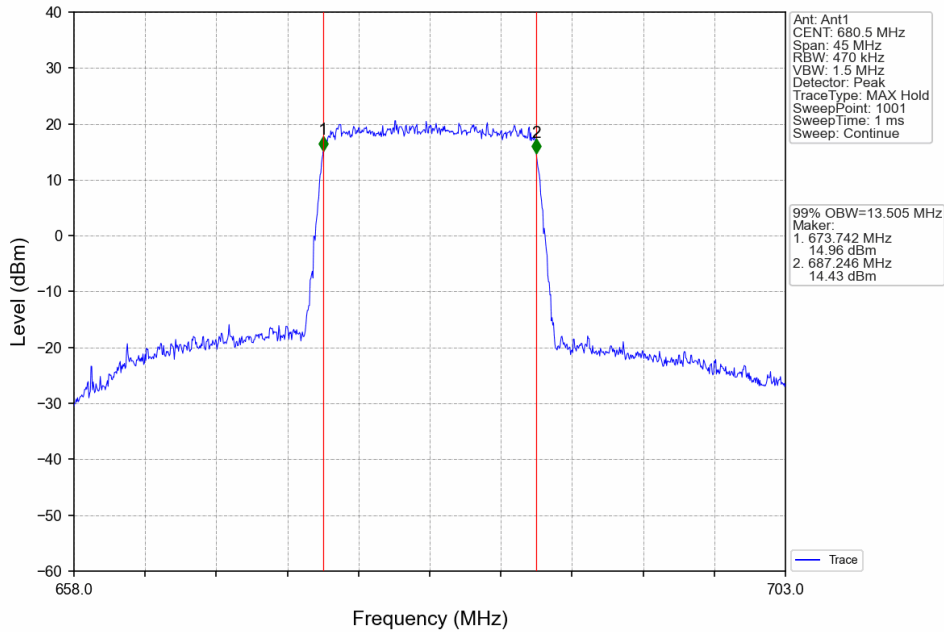


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Band71_15MHz_16QAM_MCH_680.5MHz_RB_75_0_NTNV



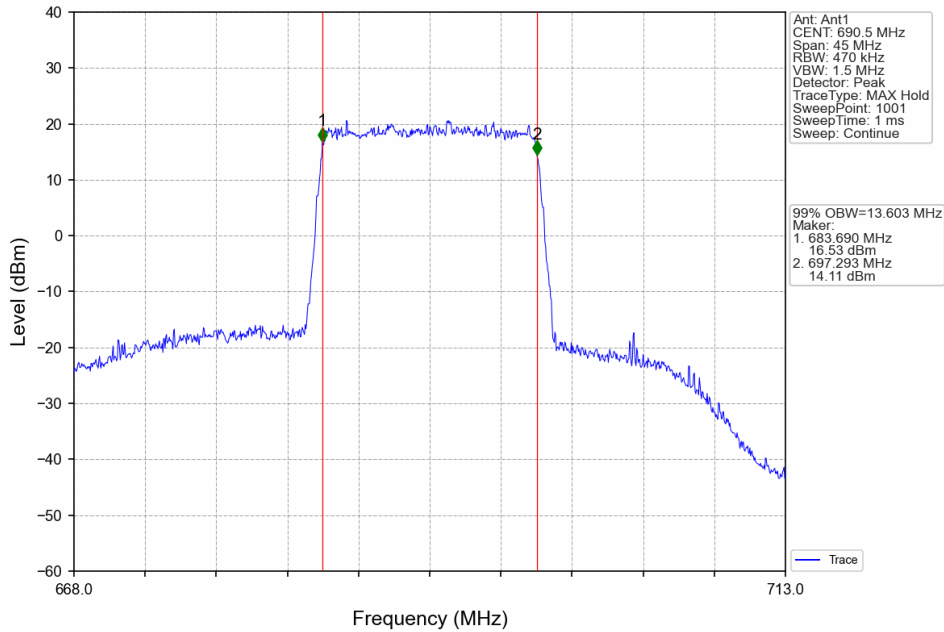
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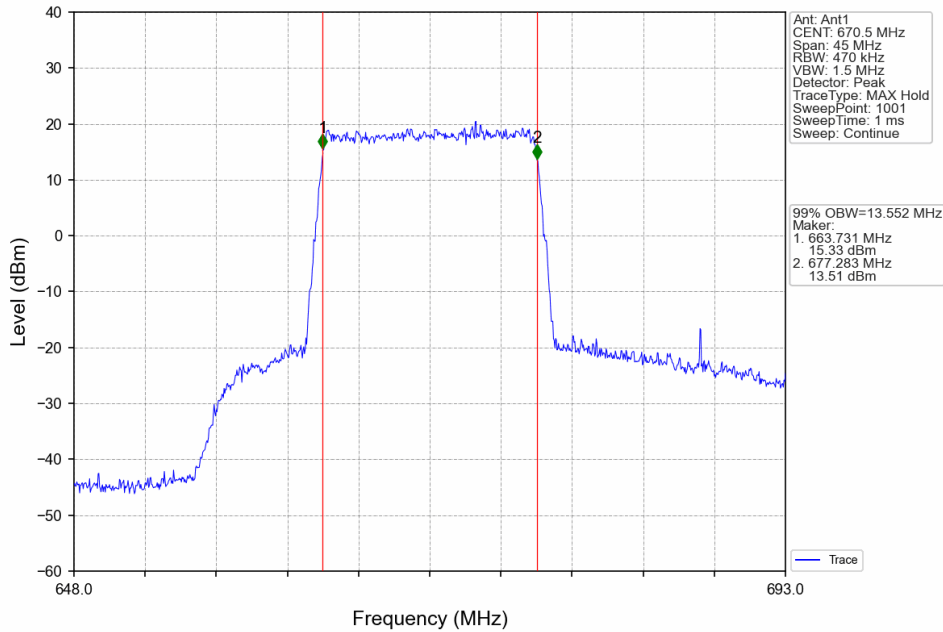


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Band71_15MHz_64QAM_LCH_670.5MHz_RB_75_0_NTNV



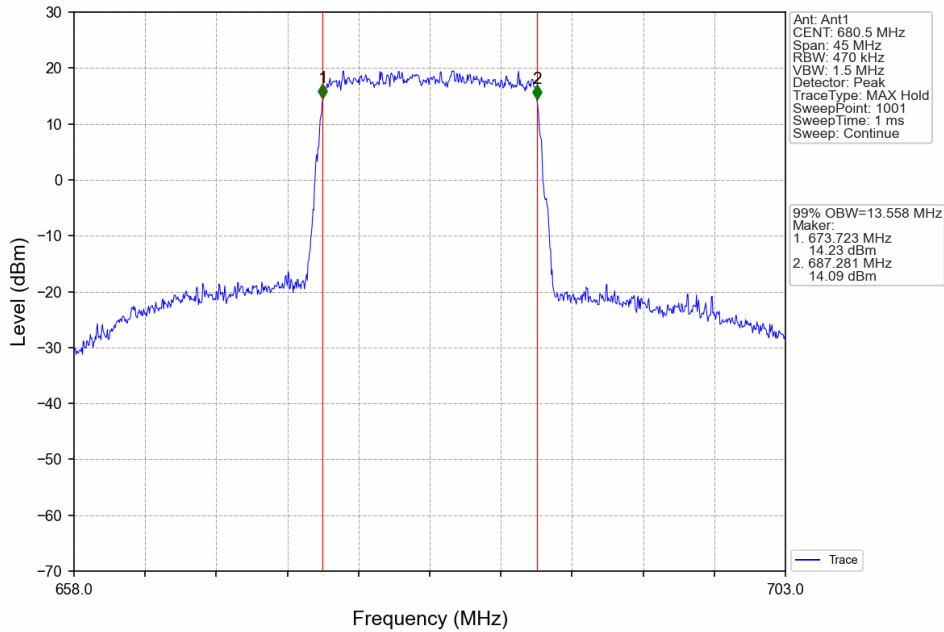
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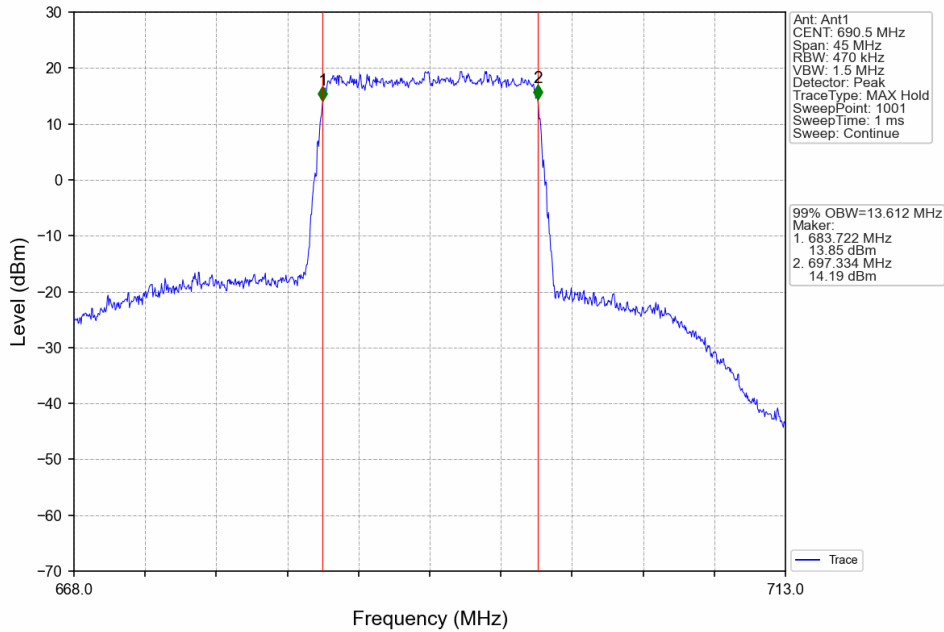
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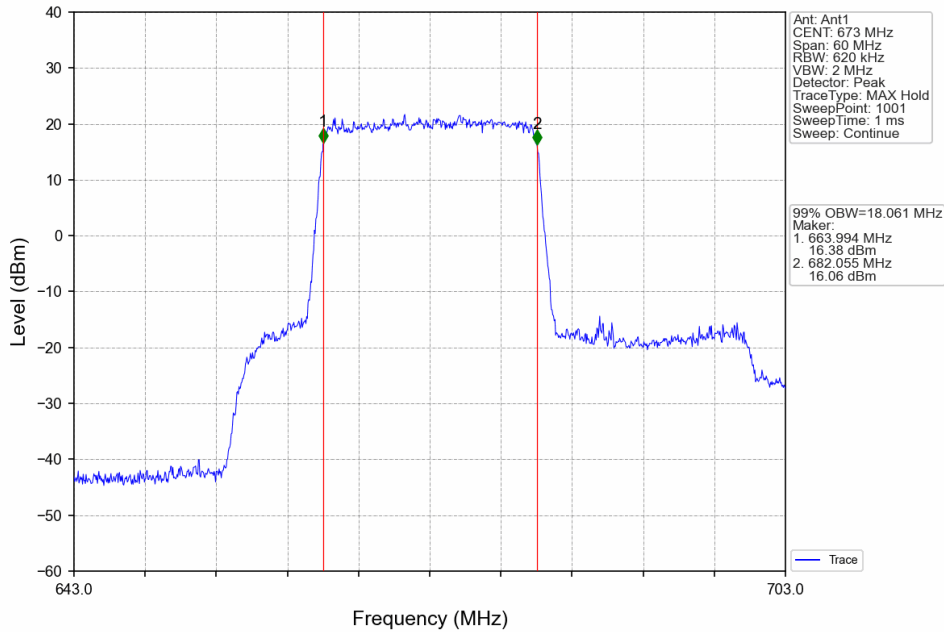
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Band71_20MHz_QPSK_LCH_673MHz_RB_100_0_NTNV

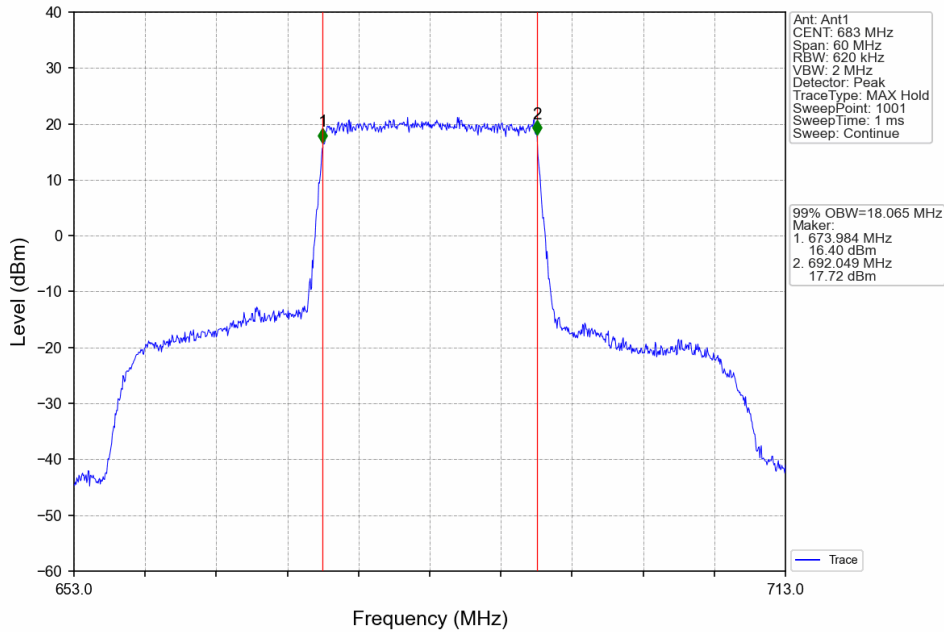


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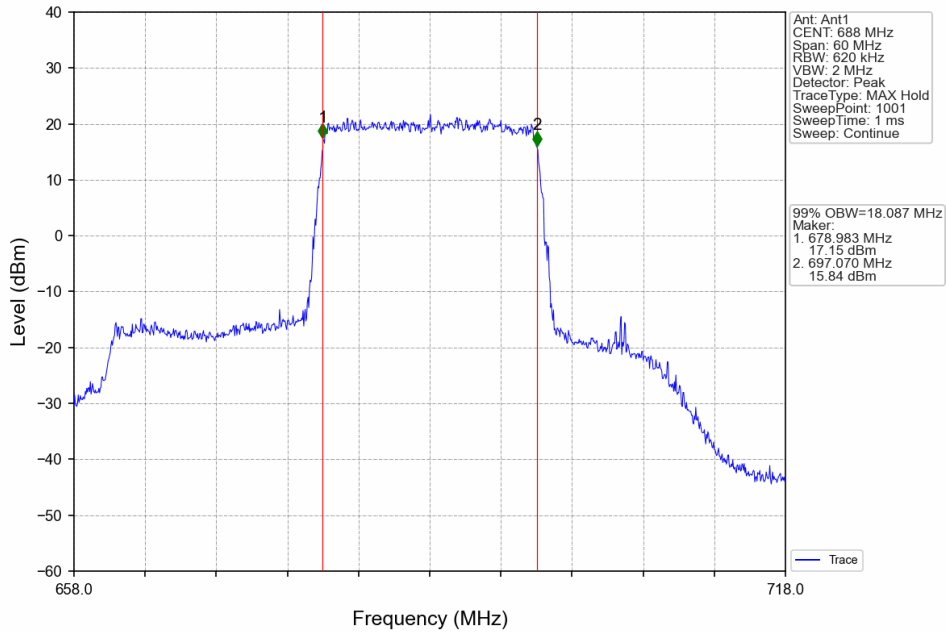
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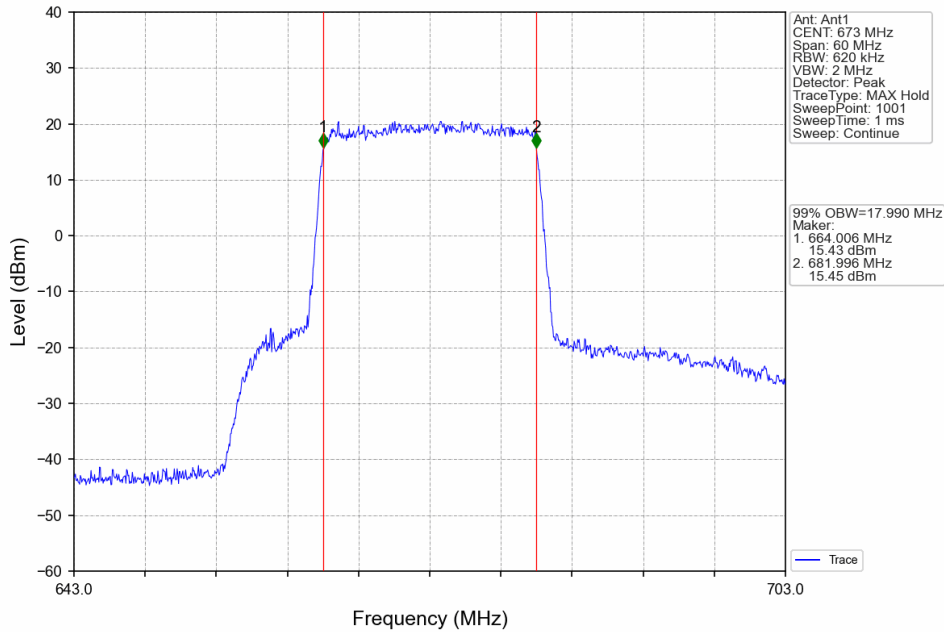
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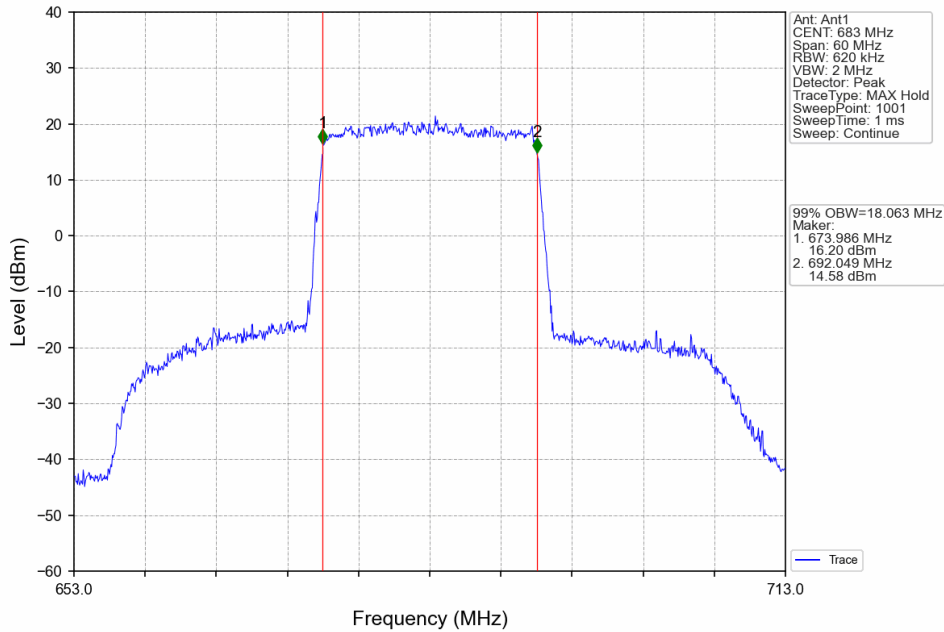


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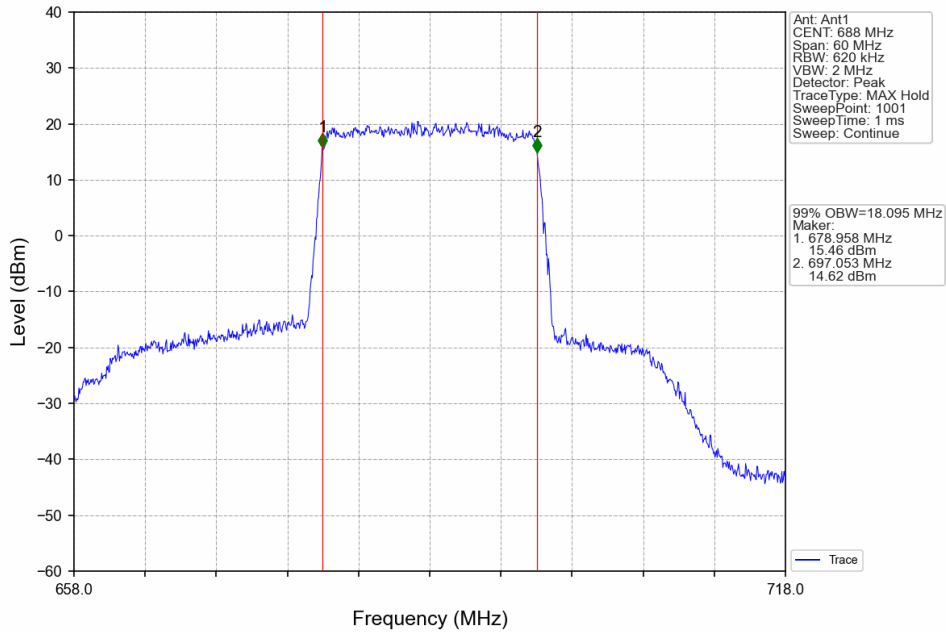
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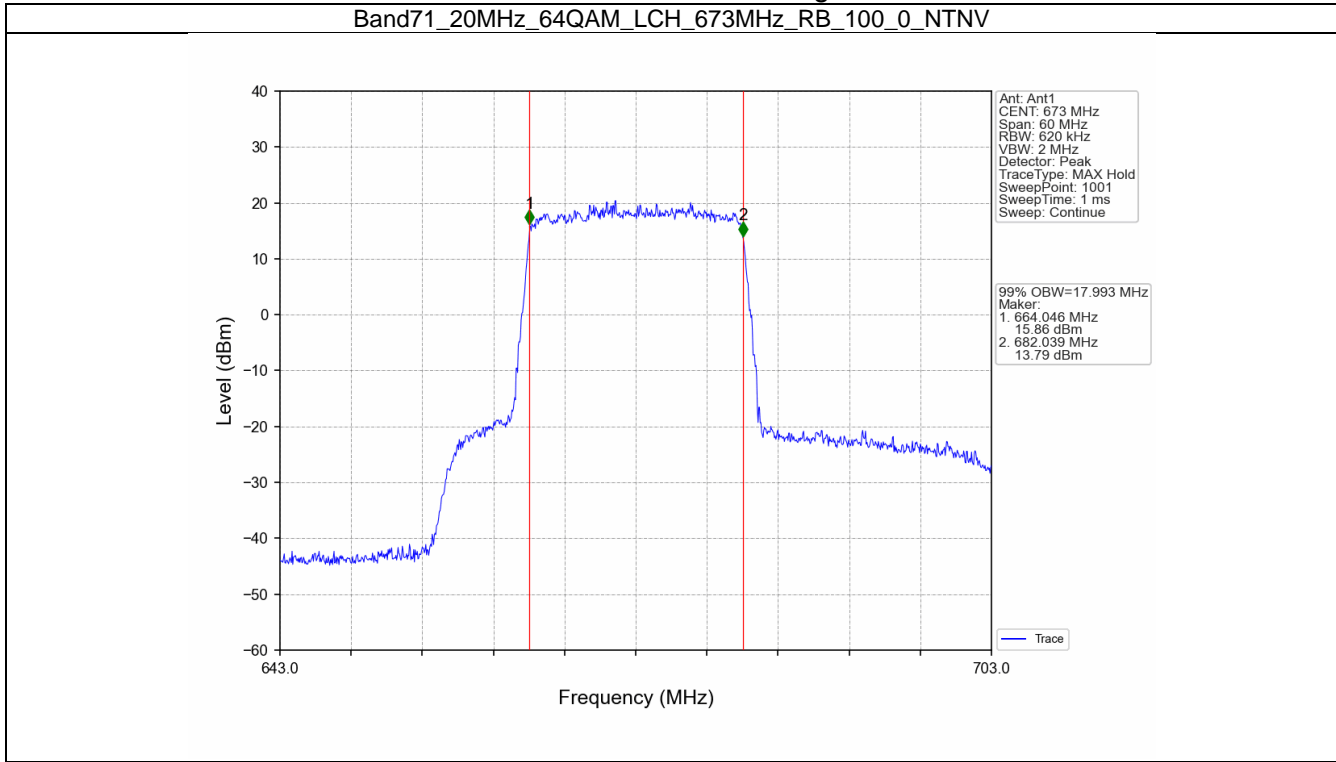
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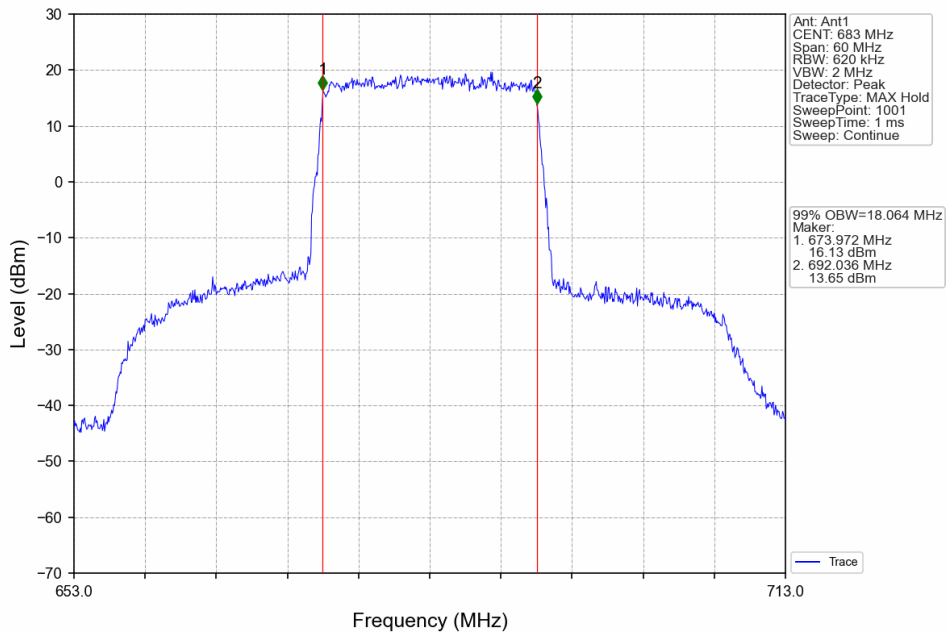


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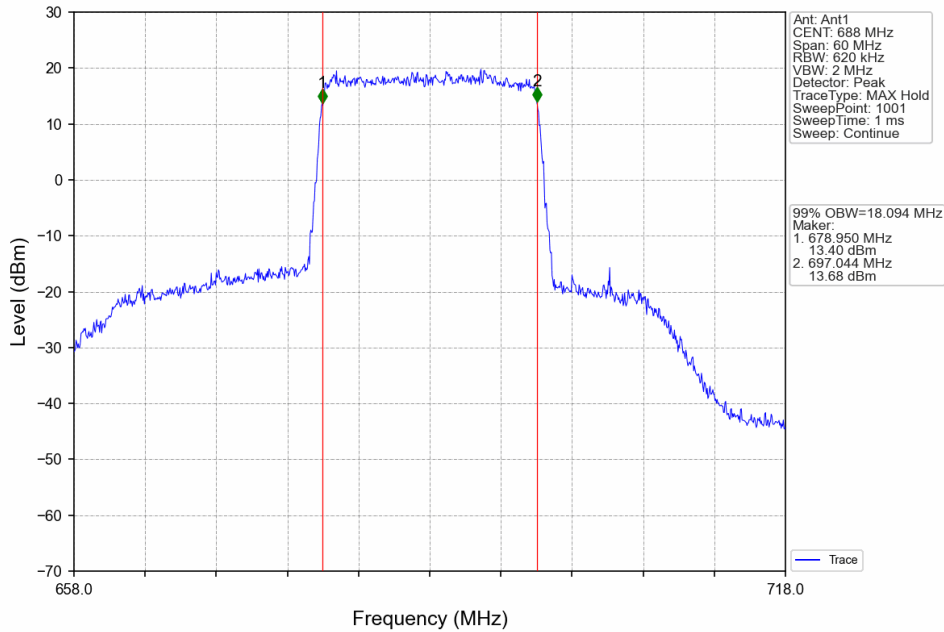


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2.2 Band71_XDB

2.2.1 Test Result

Band: 71 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	665.5	25	0	5.045	/	Pass
		680.5	25	0	5.029	/	Pass
		695.5	25	0	5.053	/	Pass
	16QAM	665.5	25	0	5.059	/	Pass
		680.5	25	0	5.047	/	Pass
		695.5	25	0	5.056	/	Pass
	64QAM	665.5	25	0	5.068	/	Pass
		680.5	25	0	5.047	/	Pass
		695.5	25	0	5.070	/	Pass
10	QPSK	668	50	0	10.026	/	Pass
		680.5	50	0	9.968	/	Pass
		693	50	0	10.004	/	Pass
	16QAM	668	50	0	9.943	/	Pass
		680.5	50	0	9.937	/	Pass
		693	50	0	10.002	/	Pass
	64QAM	668	50	0	9.941	/	Pass
		680.5	50	0	9.949	/	Pass
		693	50	0	9.950	/	Pass
15	QPSK	670.5	75	0	15.000	/	Pass
		680.5	75	0	14.925	/	Pass
		690.5	75	0	15.033	/	Pass
	16QAM	670.5	75	0	14.923	/	Pass
		680.5	75	0	14.828	/	Pass
		690.5	75	0	14.873	/	Pass
	64QAM	670.5	75	0	14.888	/	Pass
		680.5	75	0	14.909	/	Pass
		690.5	75	0	15.051	/	Pass
20	QPSK	673	100	0	19.793	/	Pass
		683	100	0	19.864	/	Pass
		688	100	0	19.953	/	Pass
	16QAM	673	100	0	19.661	/	Pass
		683	100	0	19.710	/	Pass
		688	100	0	19.935	/	Pass
	64QAM	673	100	0	19.788	/	Pass
		683	100	0	19.904	/	Pass
		688	100	0	19.714	/	Pass

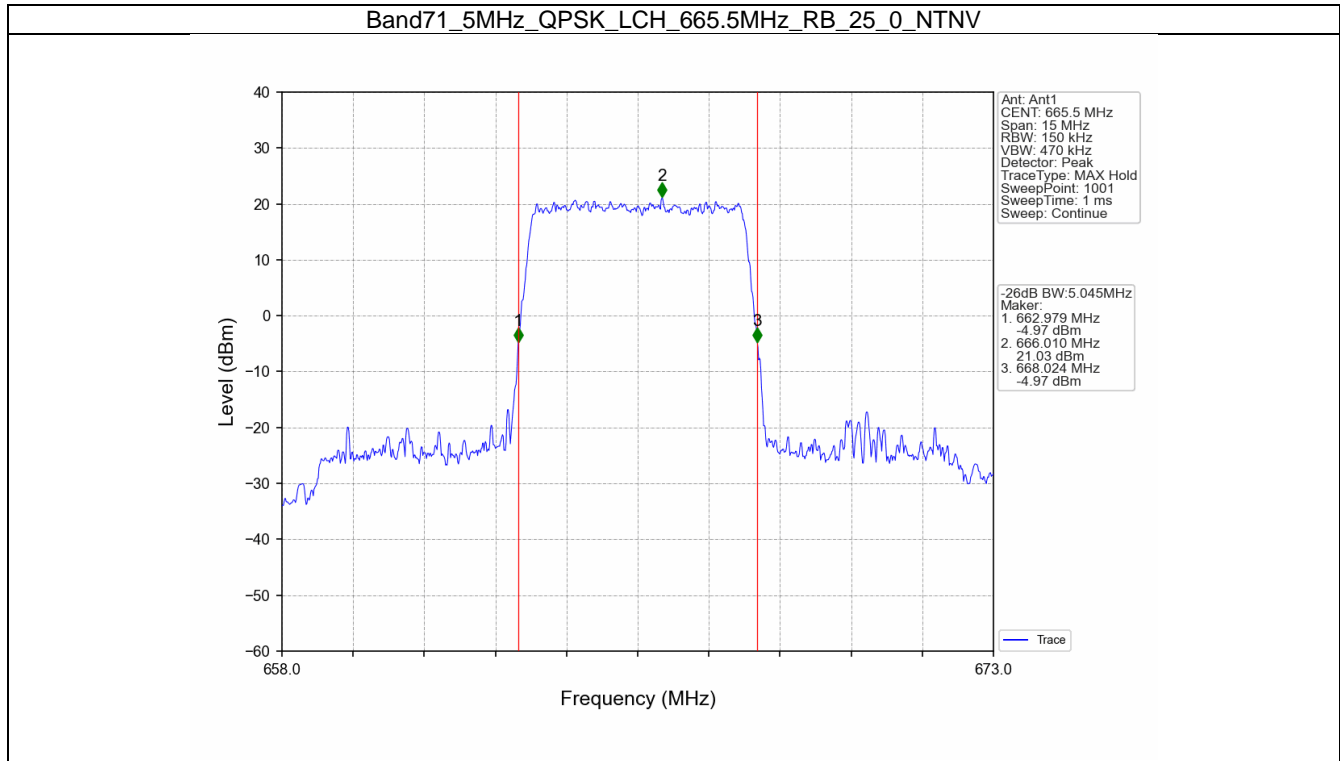


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2.2.2 Test Graph

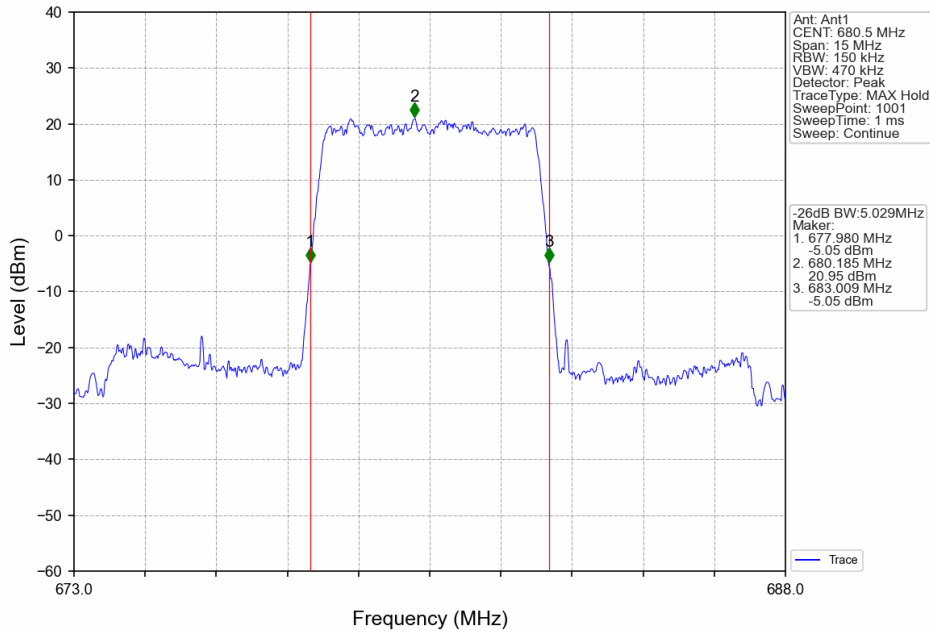


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Band71_5MHz_QPSK_MCH_680.5MHz_RB_25_0_NTNV

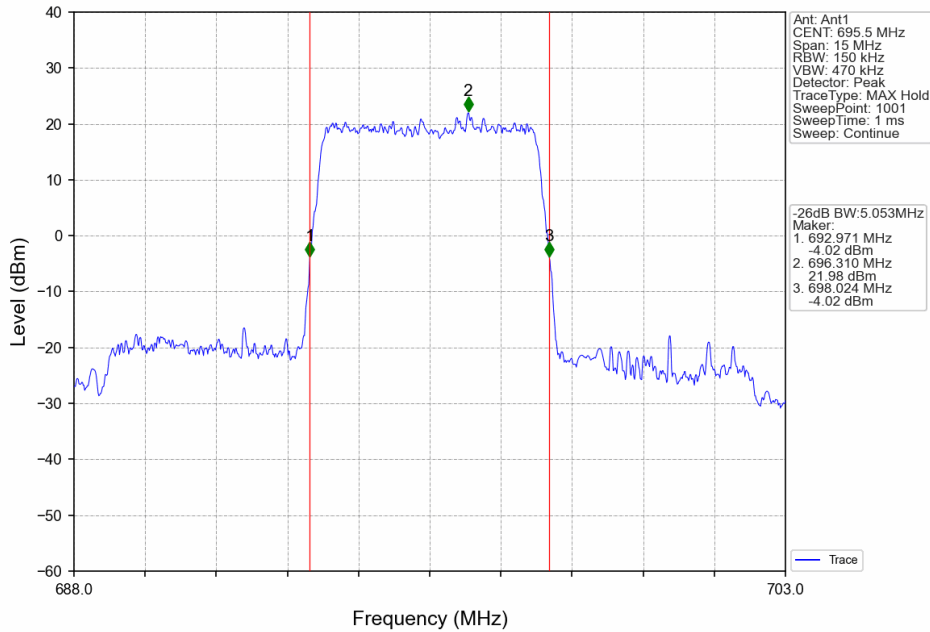


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Band71_5MHz_QPSK_HCH_695.5MHz_RB_25_0_NTNV

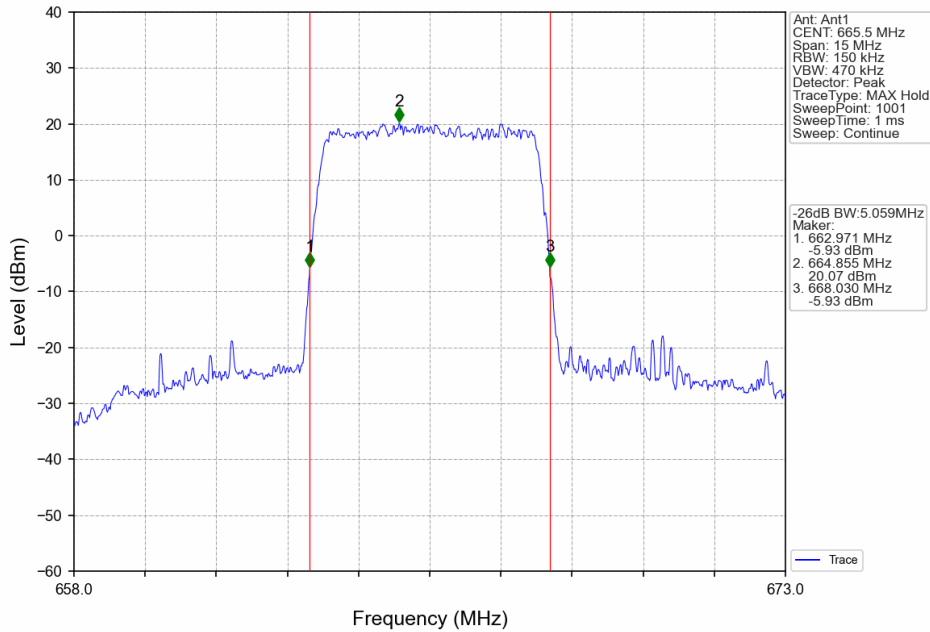


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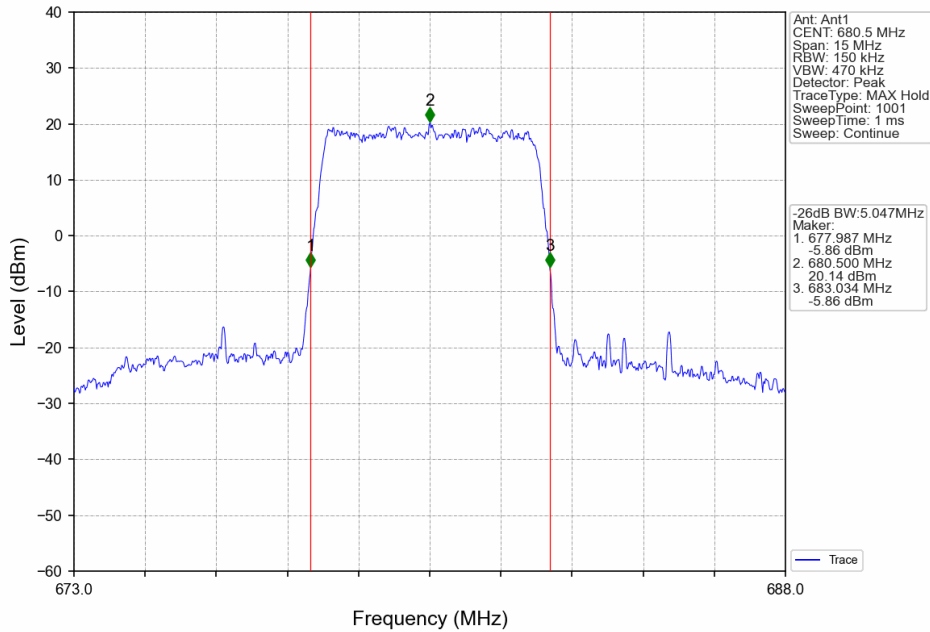


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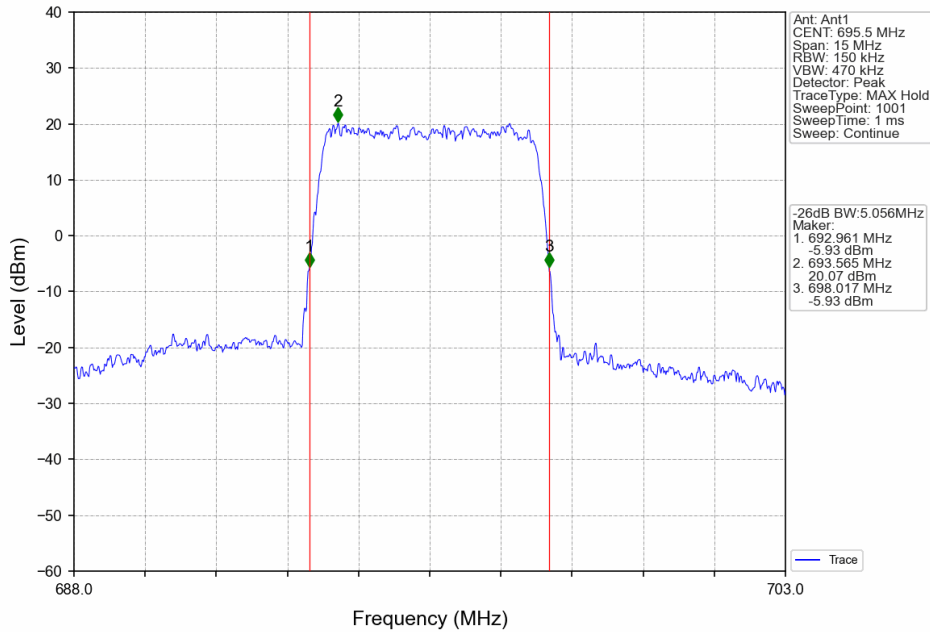


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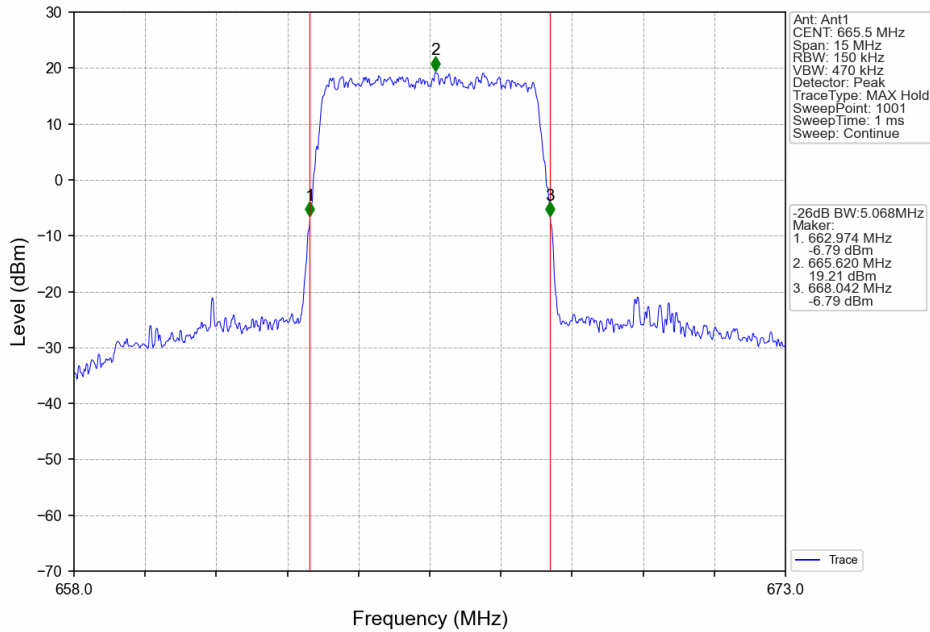


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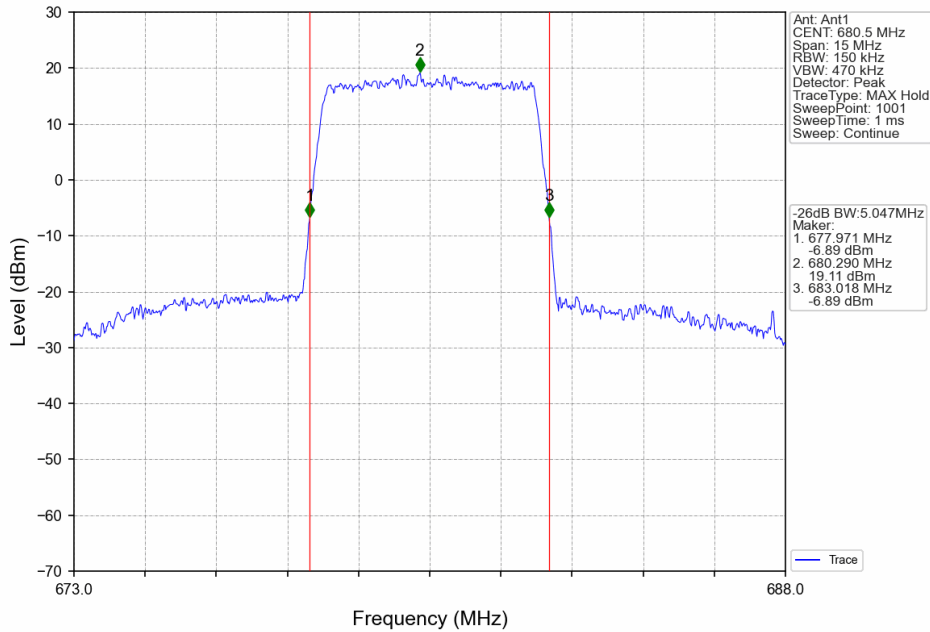


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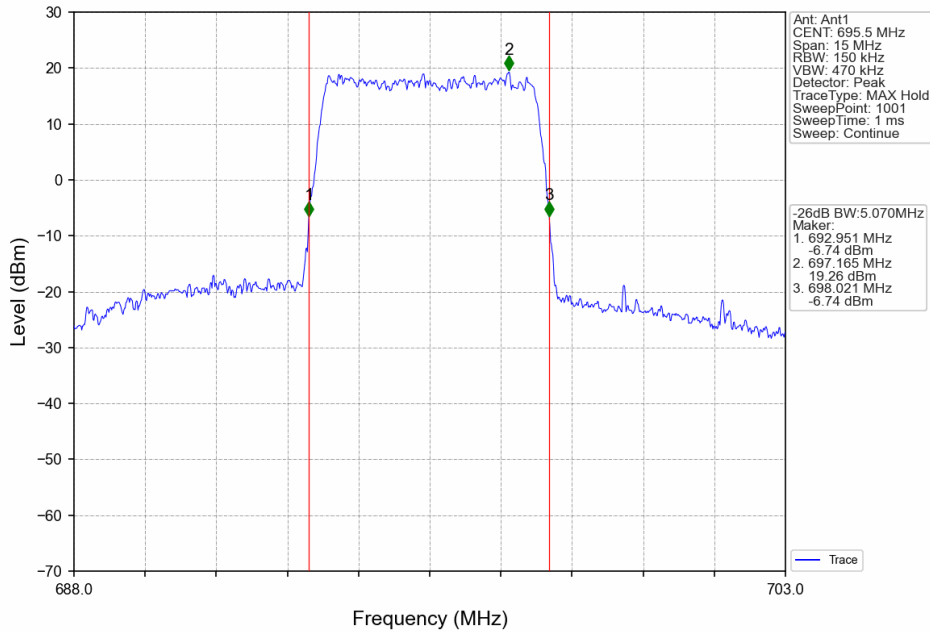


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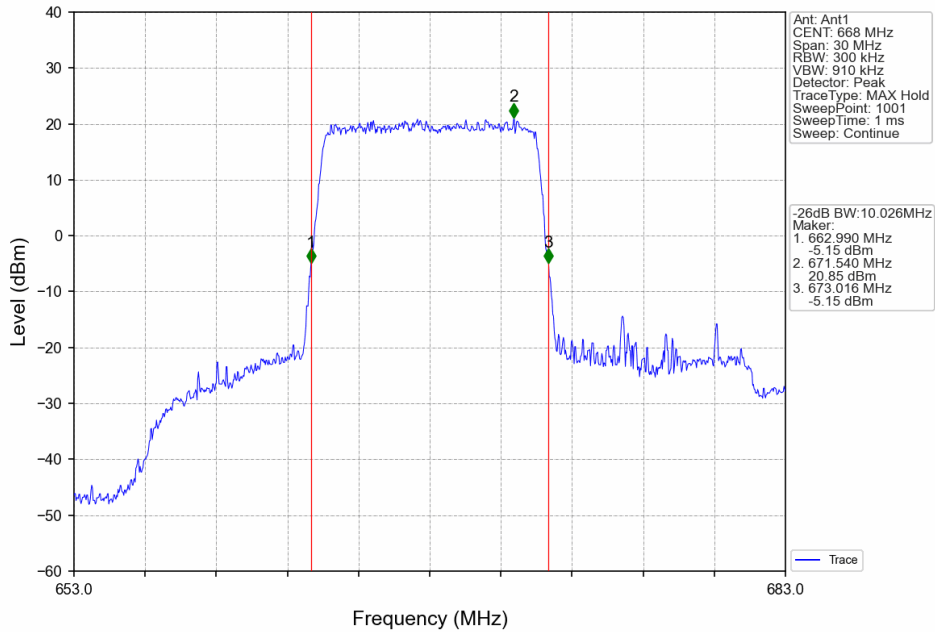


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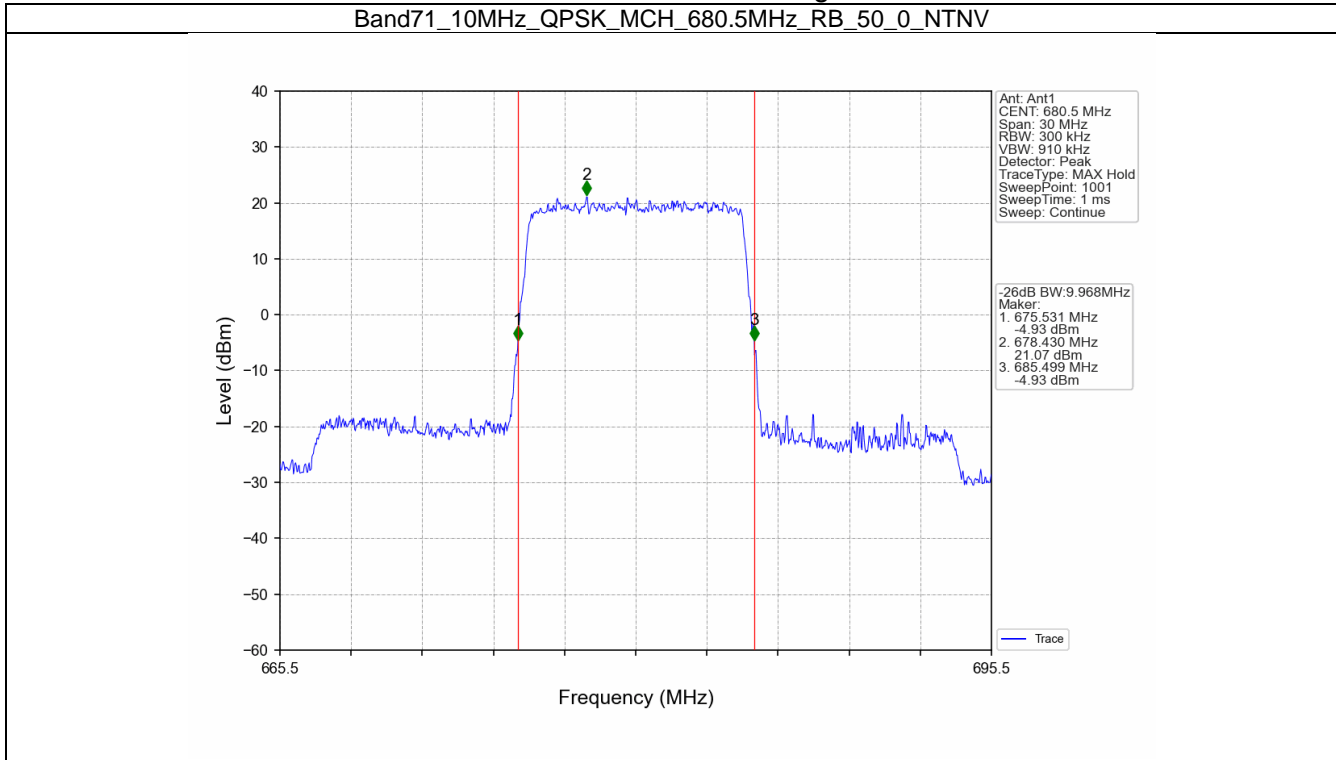
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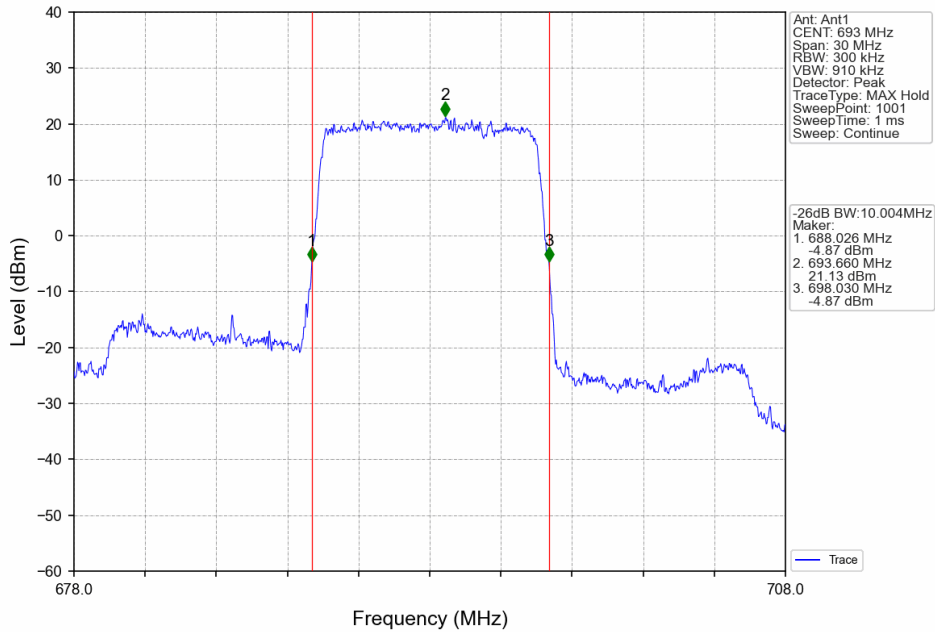


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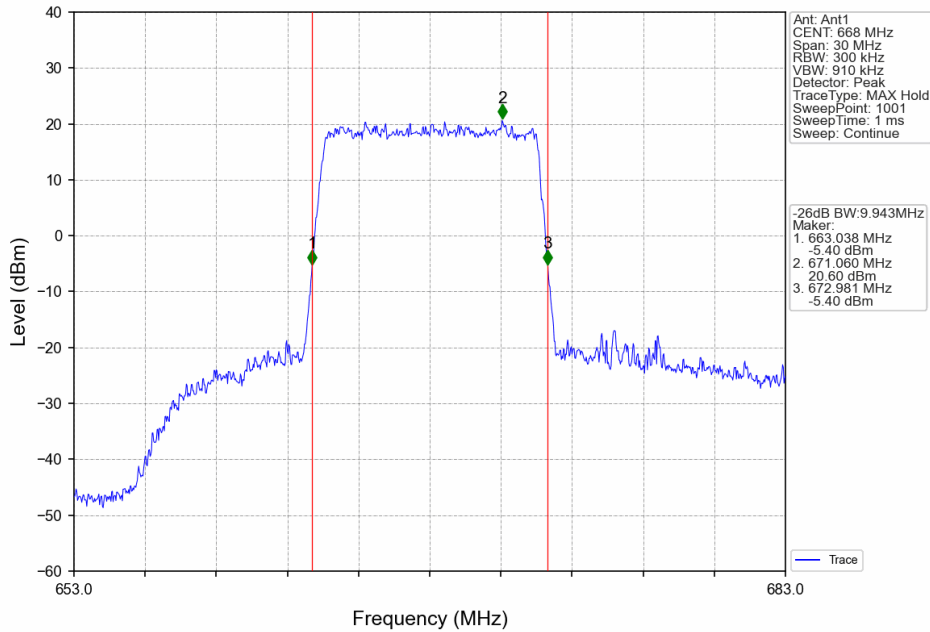


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Band71_10MHz_16QAM_LCH_668MHz_RB_50_0_NTNV

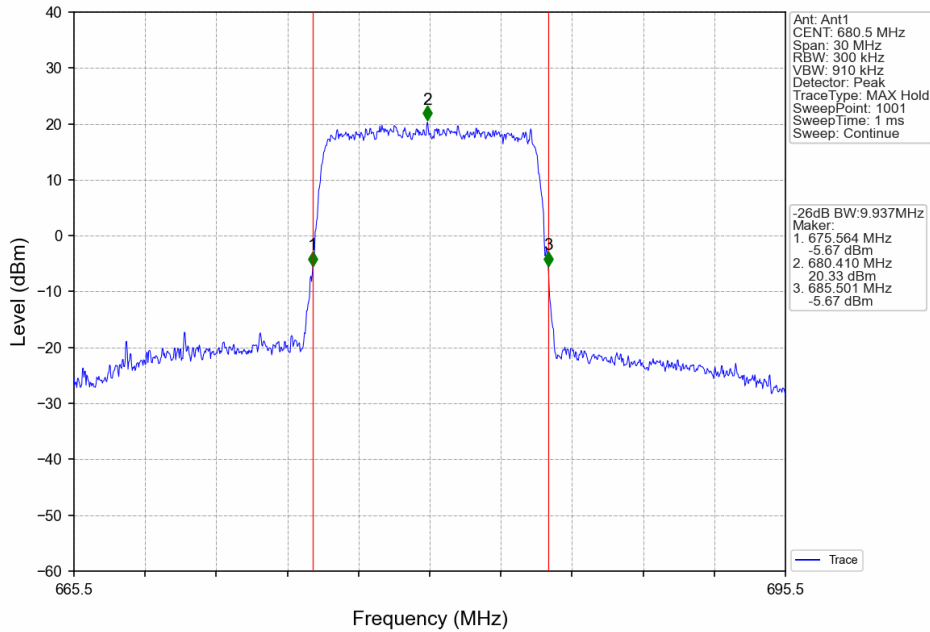


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Band71_10MHz_16QAM_MCH_680.5MHz_RB_50_0_NTNV

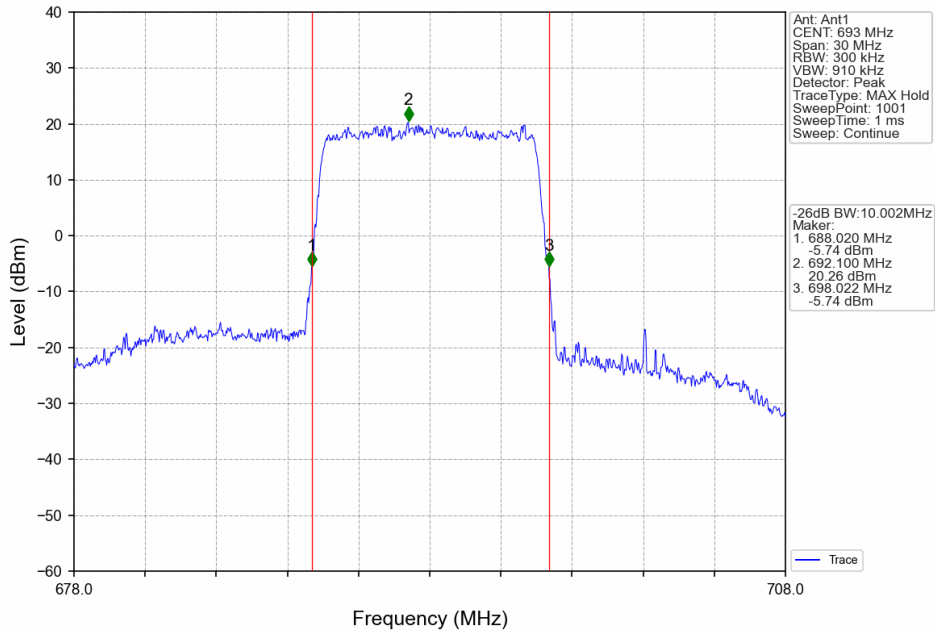


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Band71_10MHz_16QAM_HCH_693MHz_RB_50_0_NTNV

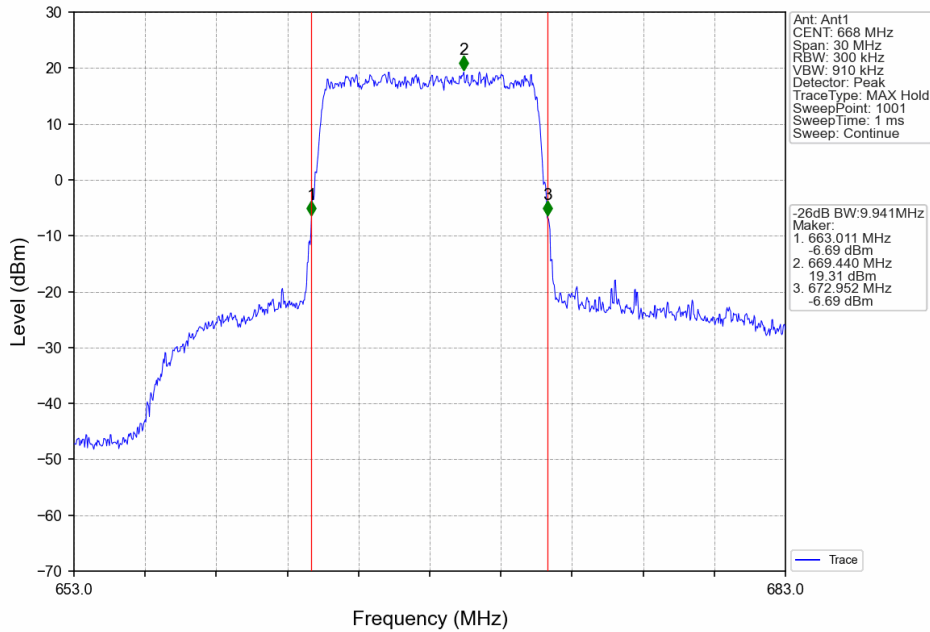


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Band71_10MHz_64QAM_LCH_668MHz_RB_50_0_NTNV

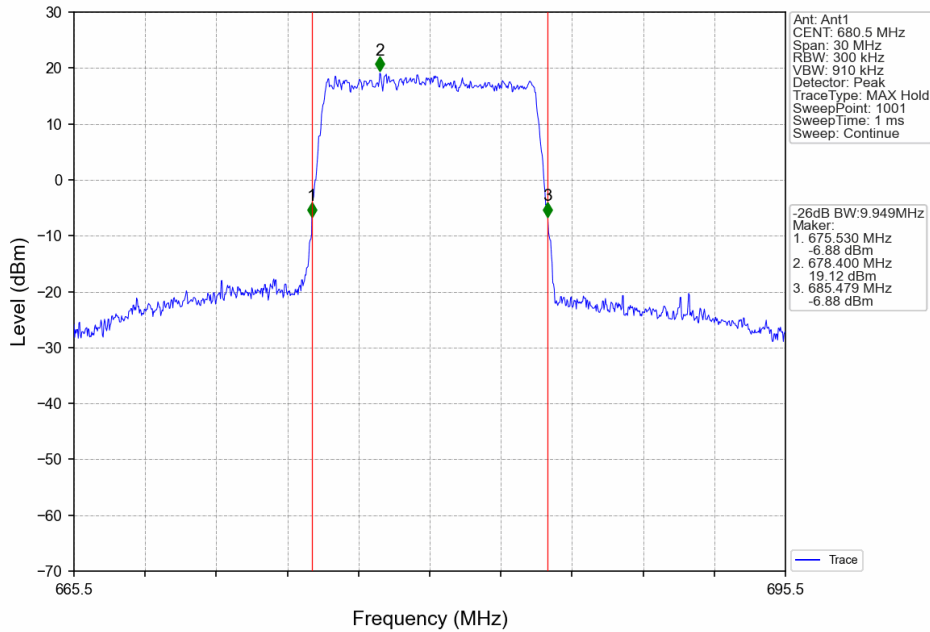


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Band71_10MHz_64QAM_MCH_680.5MHz_RB_50_0_NTNV

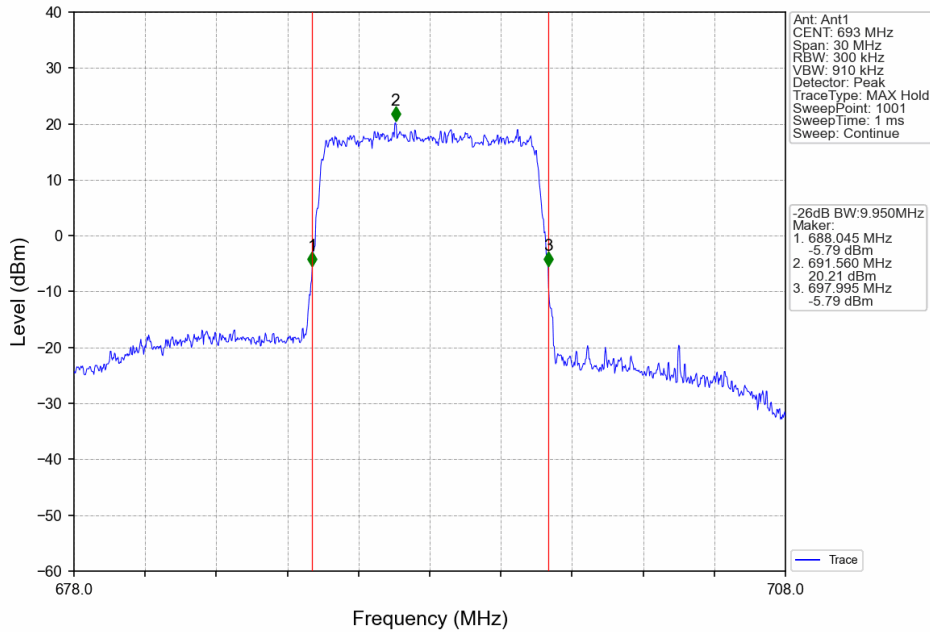


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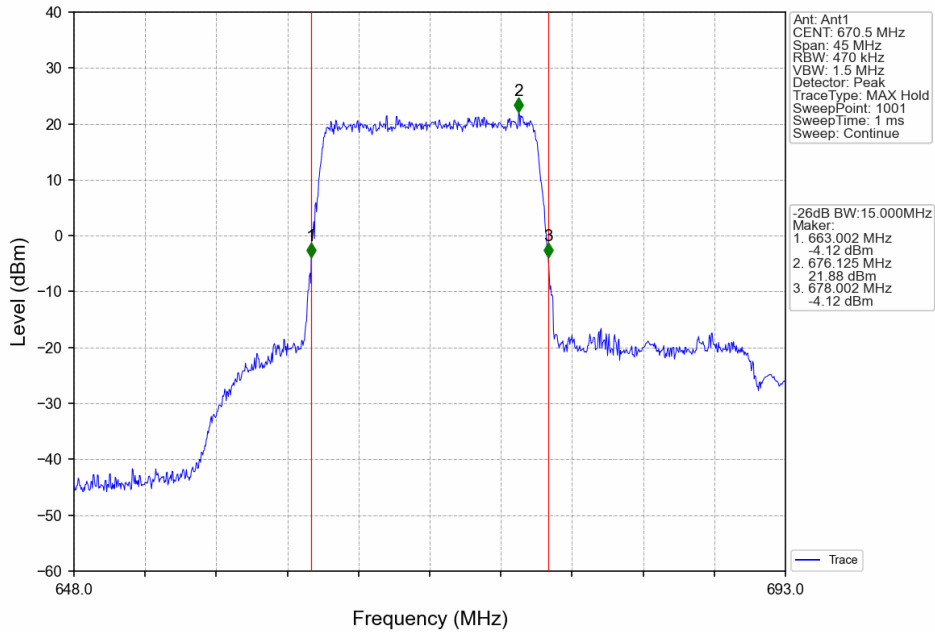


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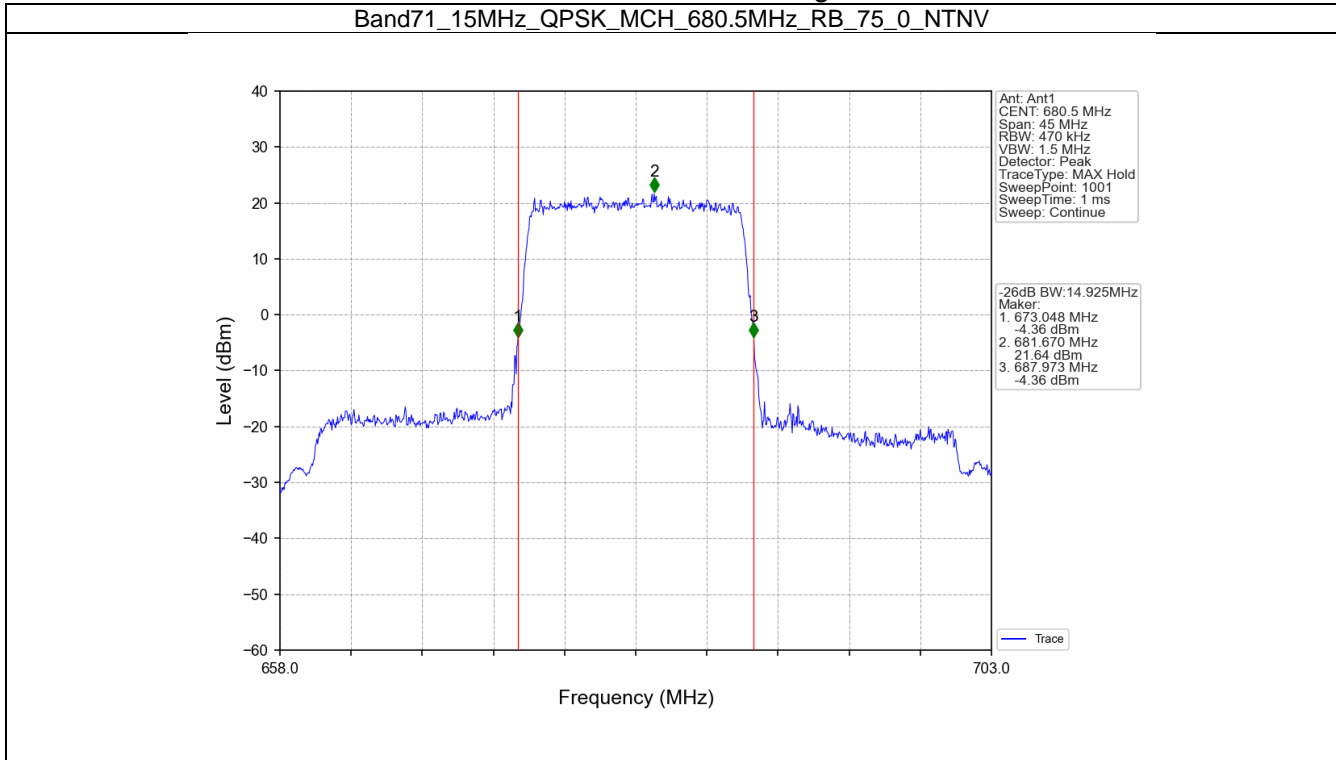
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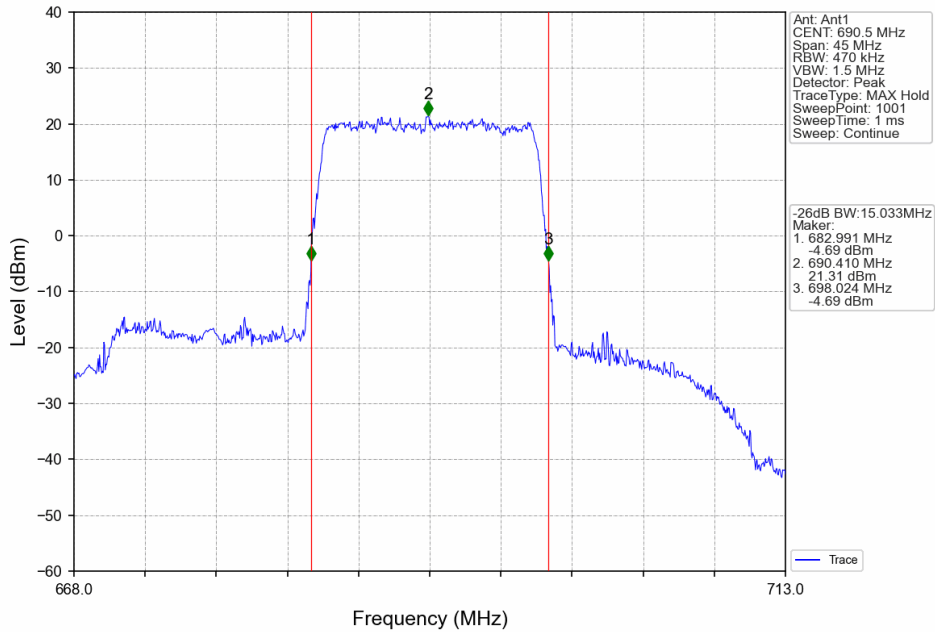


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Band71_15MHz_QPSK_HCH_690.5MHz_RB_75_0_NTNV

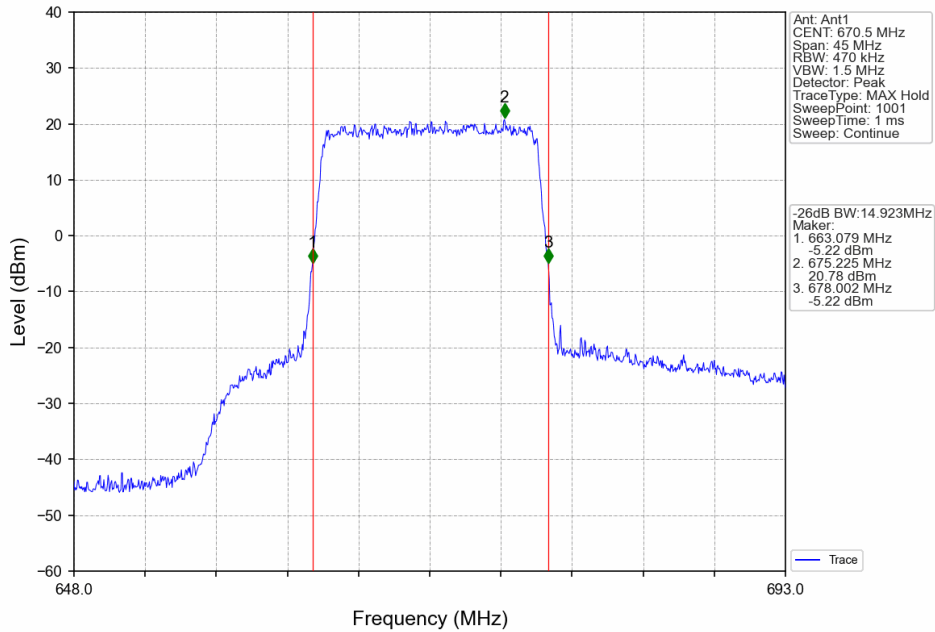


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Band71_15MHz_16QAM_LCH_670.5MHz_RB_75_0_NTNV

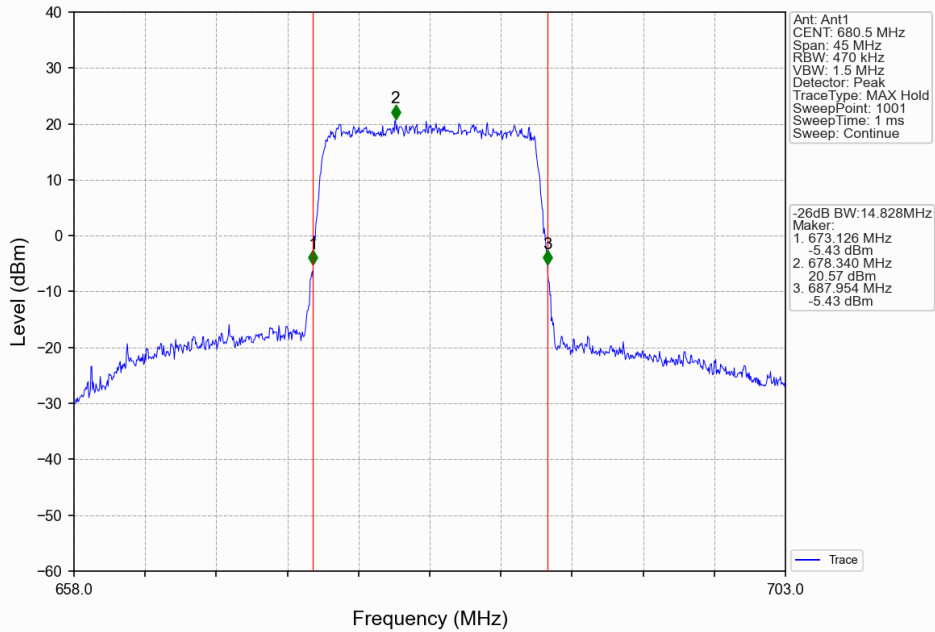


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Band71_15MHz_16QAM_MCH_680.5MHz_RB_75_0_NTNV

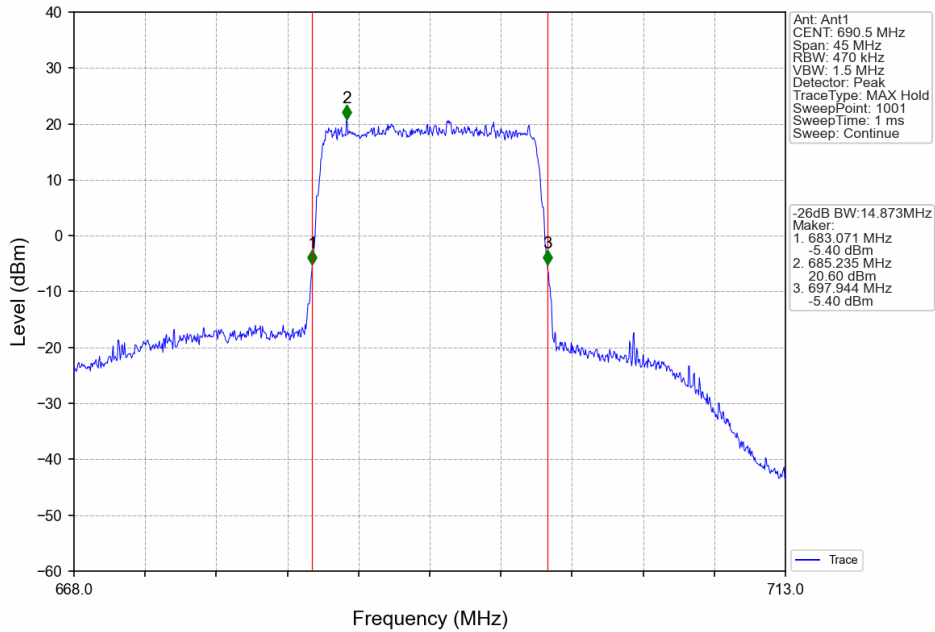


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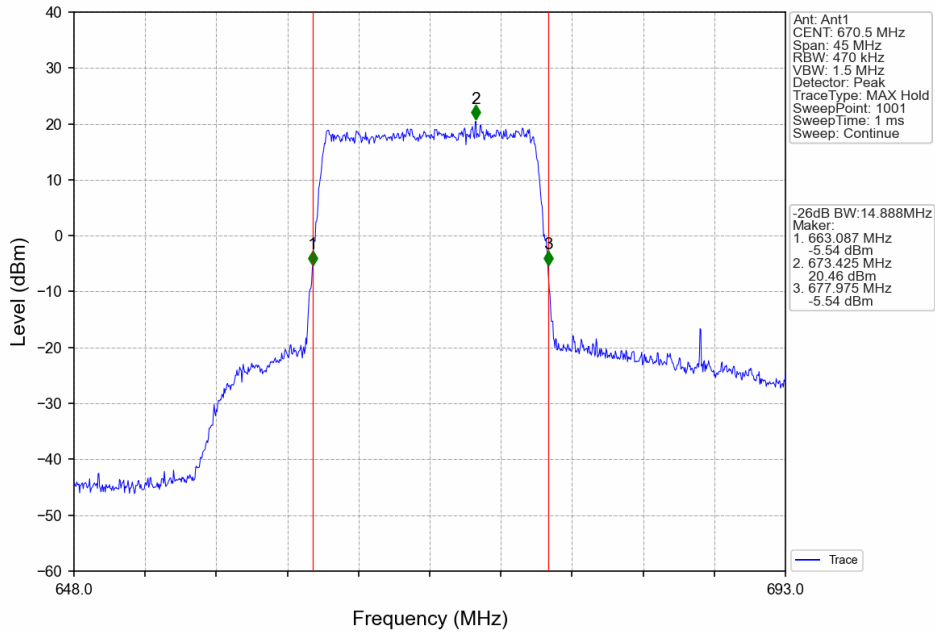


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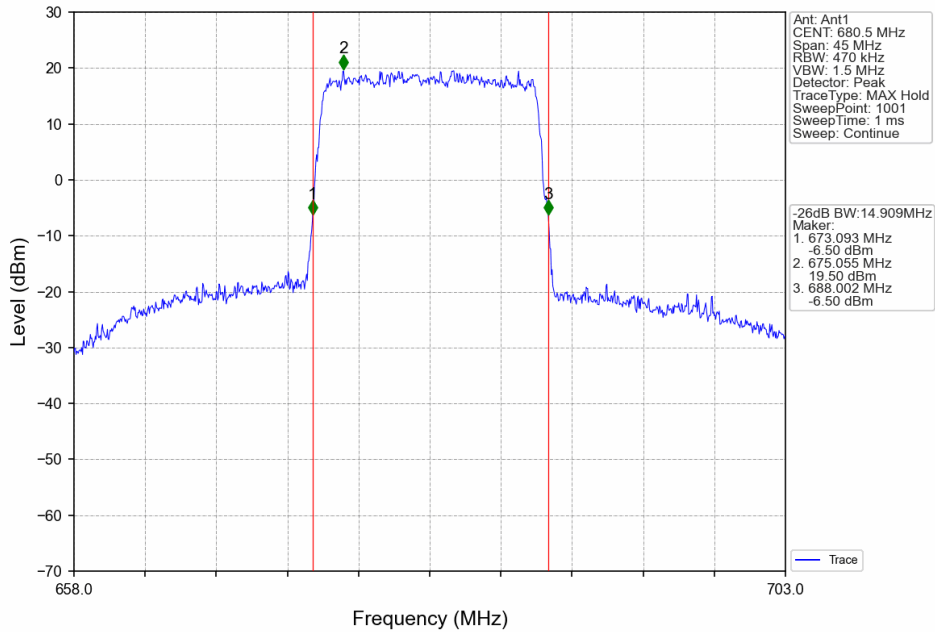
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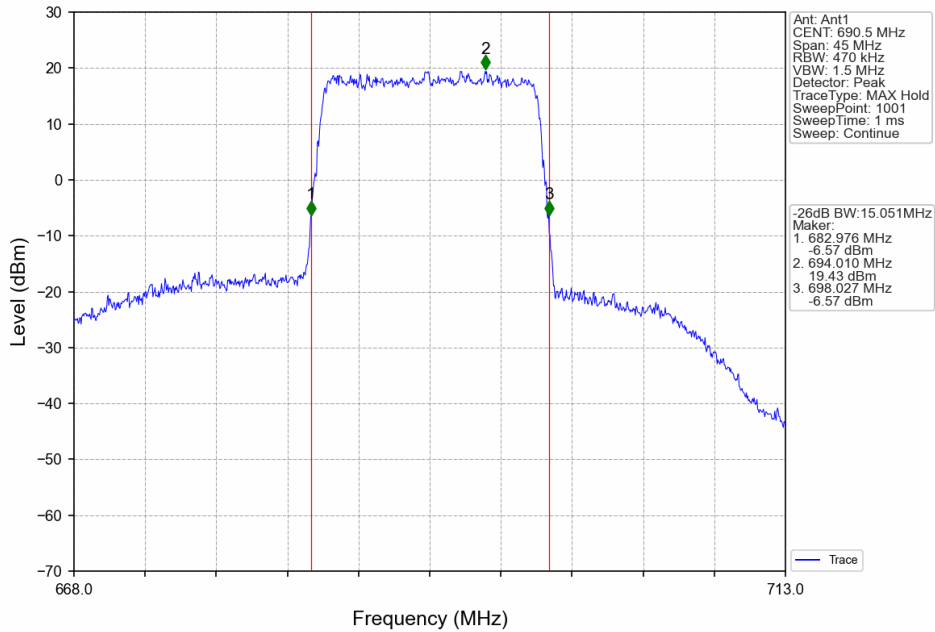
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Band71_15MHz_64QAM_HCH_690.5MHz_RB_75_0_NTNV

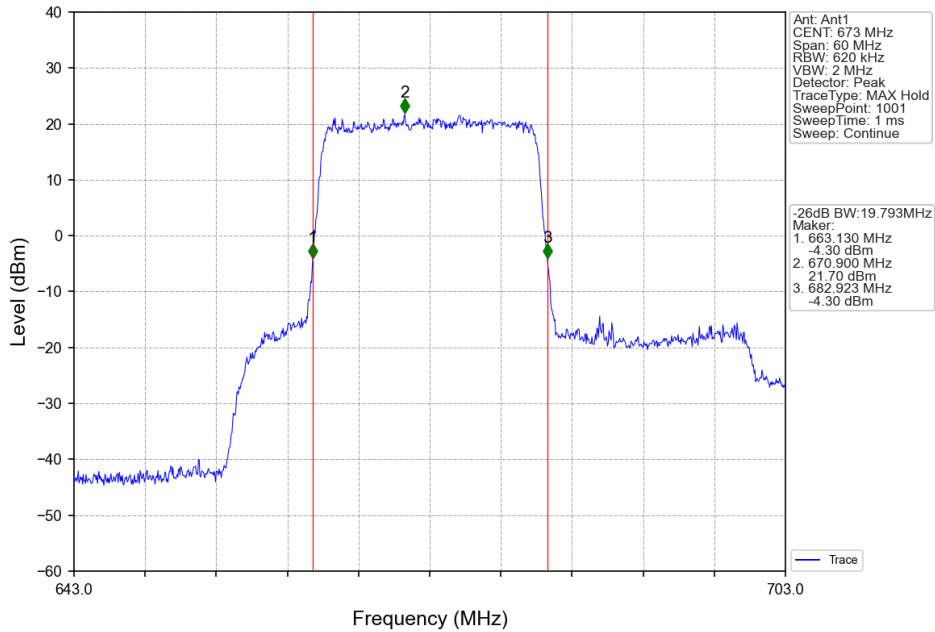


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Band71_20MHz_QPSK_LCH_673MHz_RB_100_0_NTNV

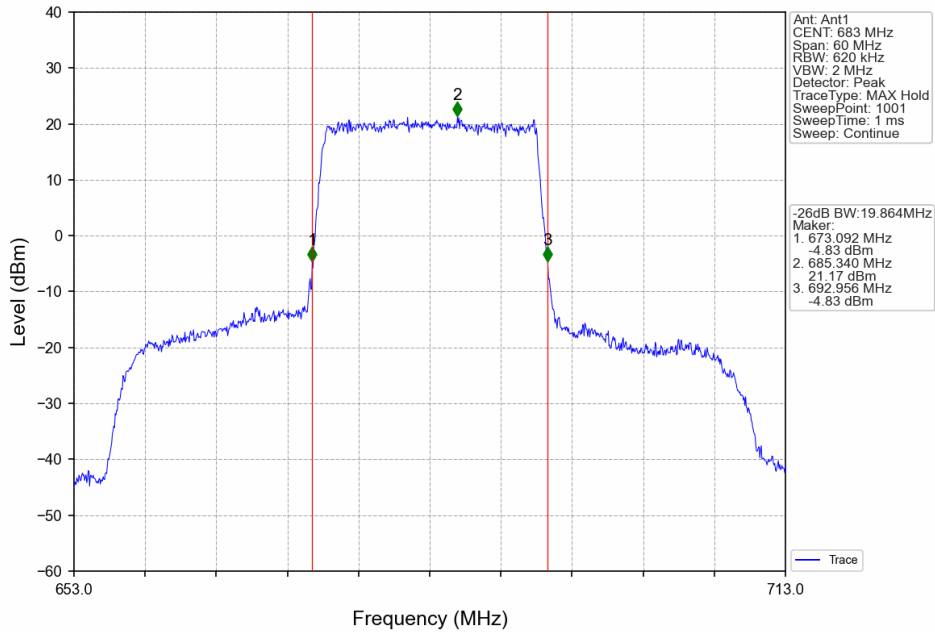


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Band71_20MHz_QPSK_MCH_683MHz_RB_100_0_NTNV

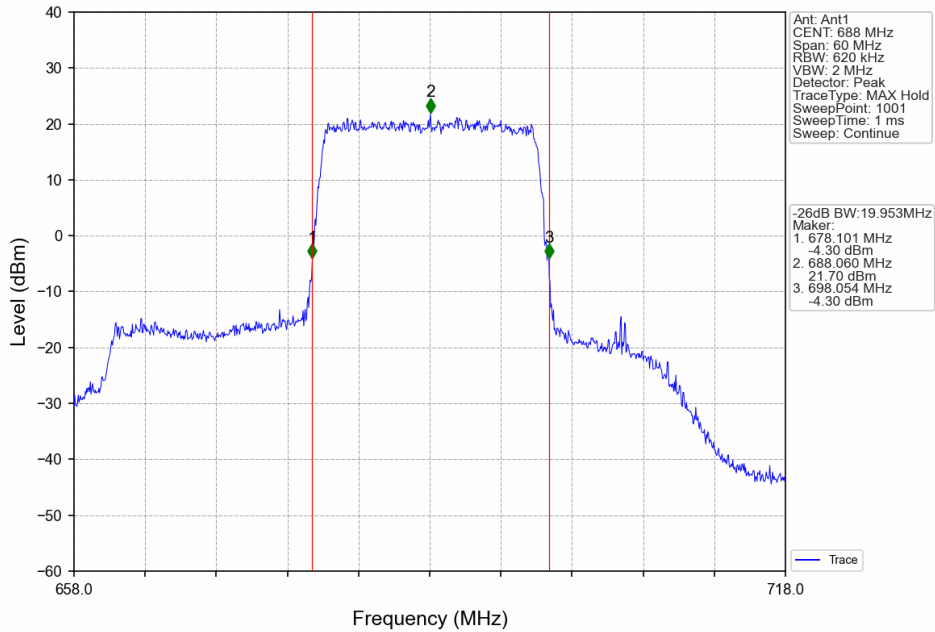


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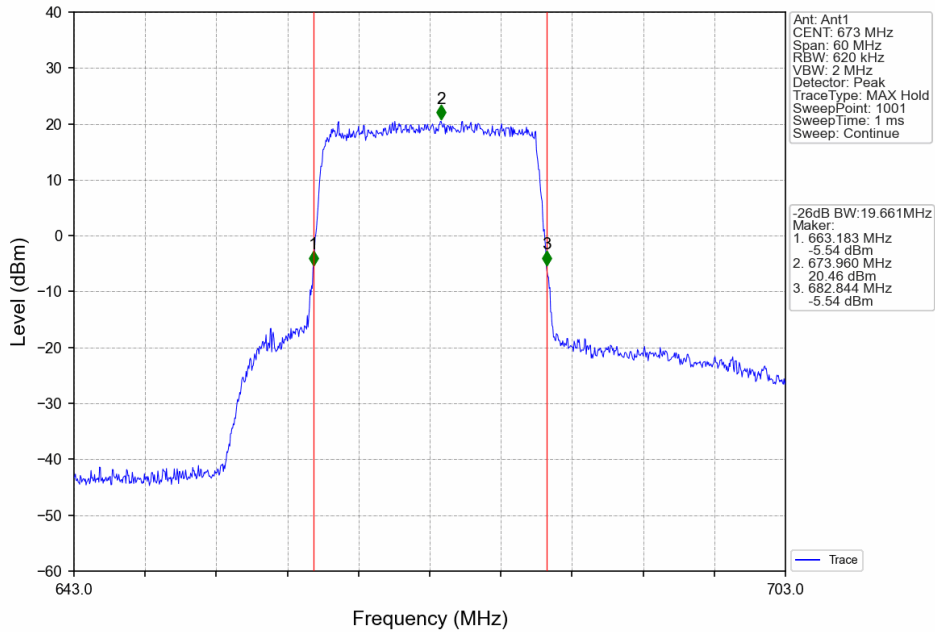


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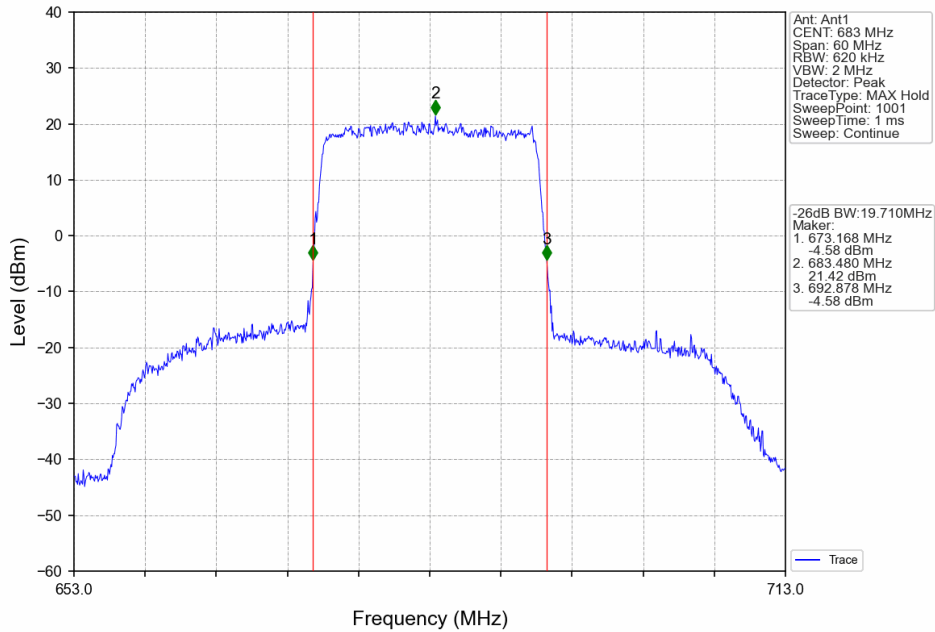


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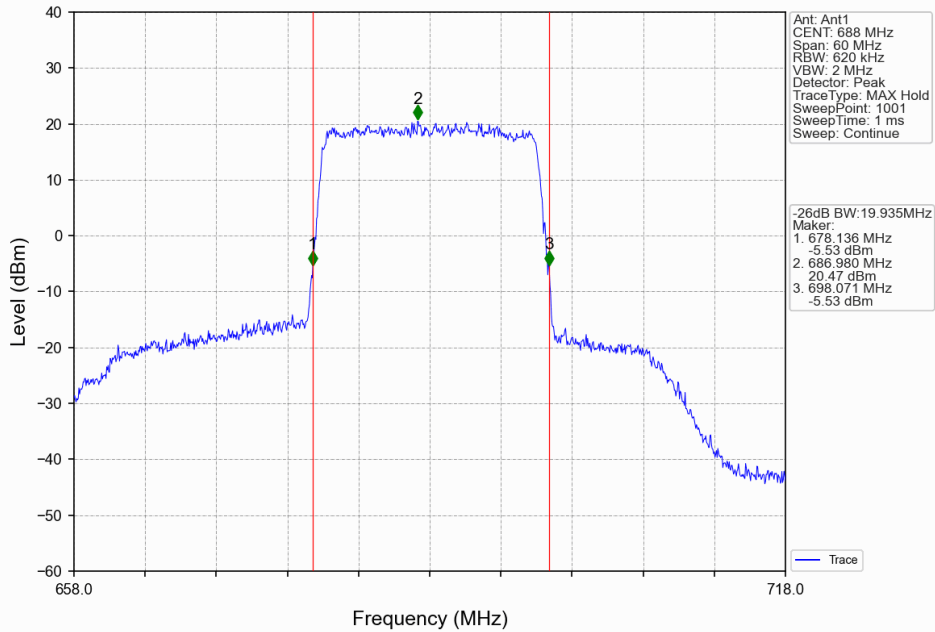


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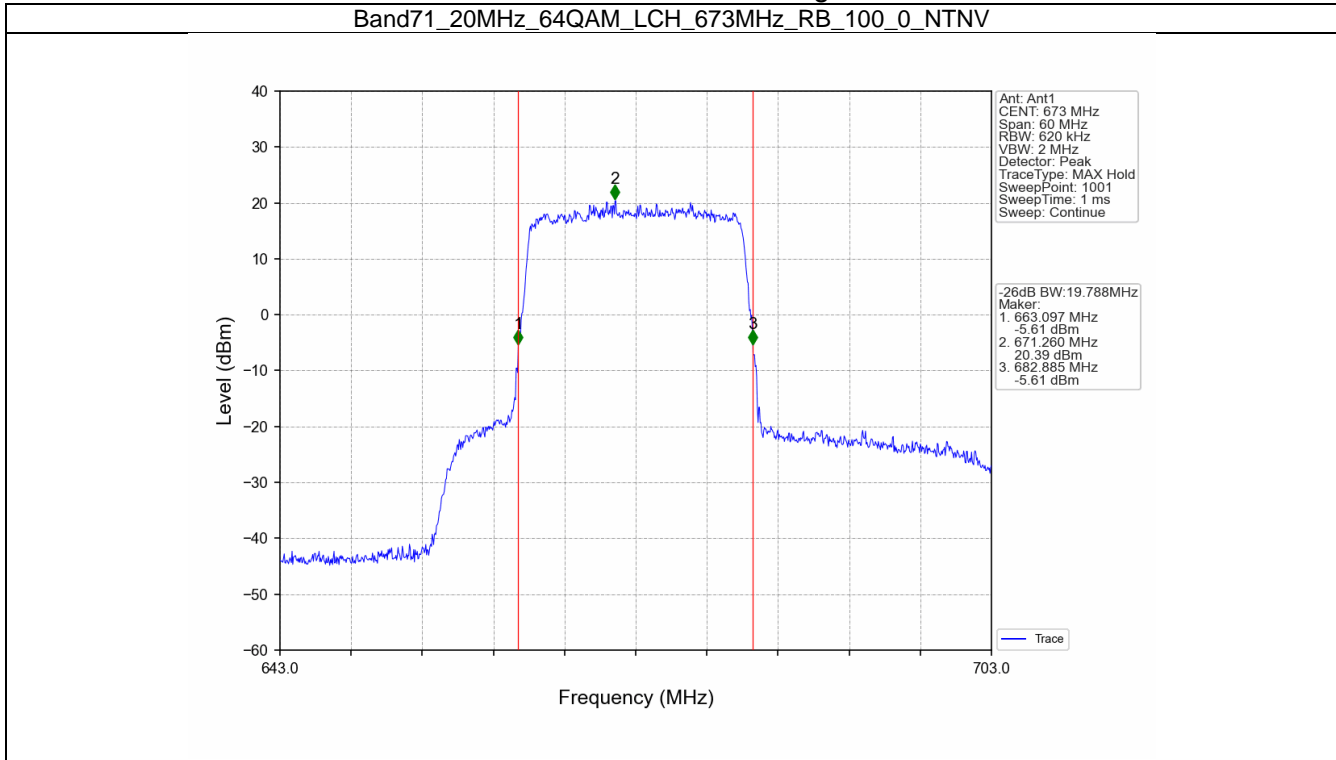
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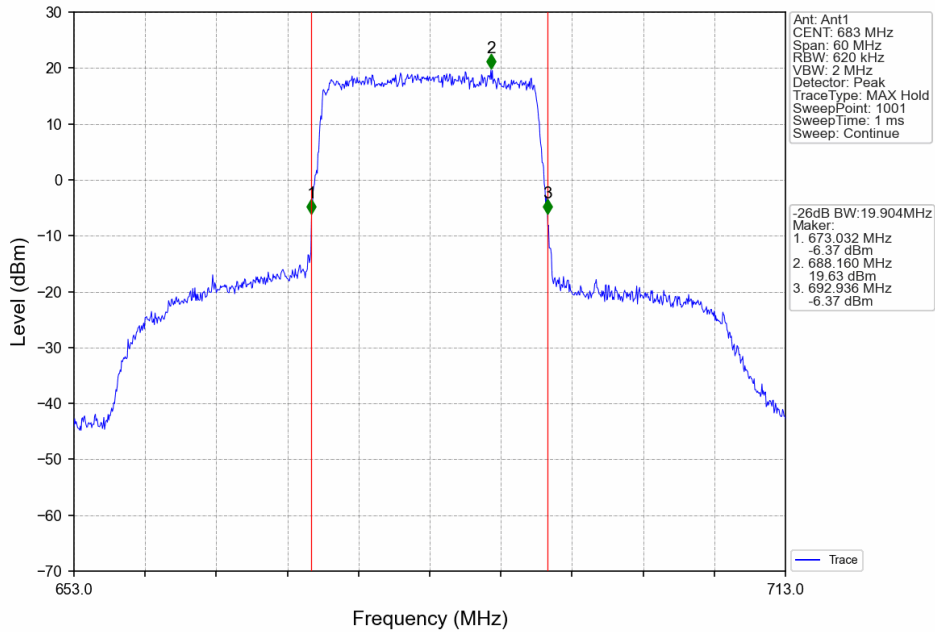


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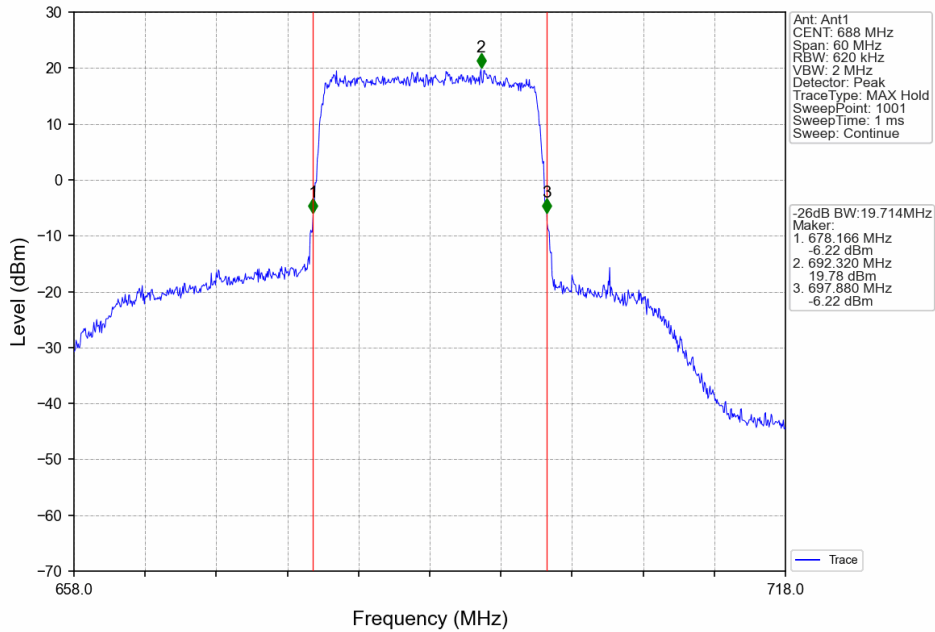


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3. Peak-Average Ratio

3.1 B71_5MHz

3.1.1 Test Result

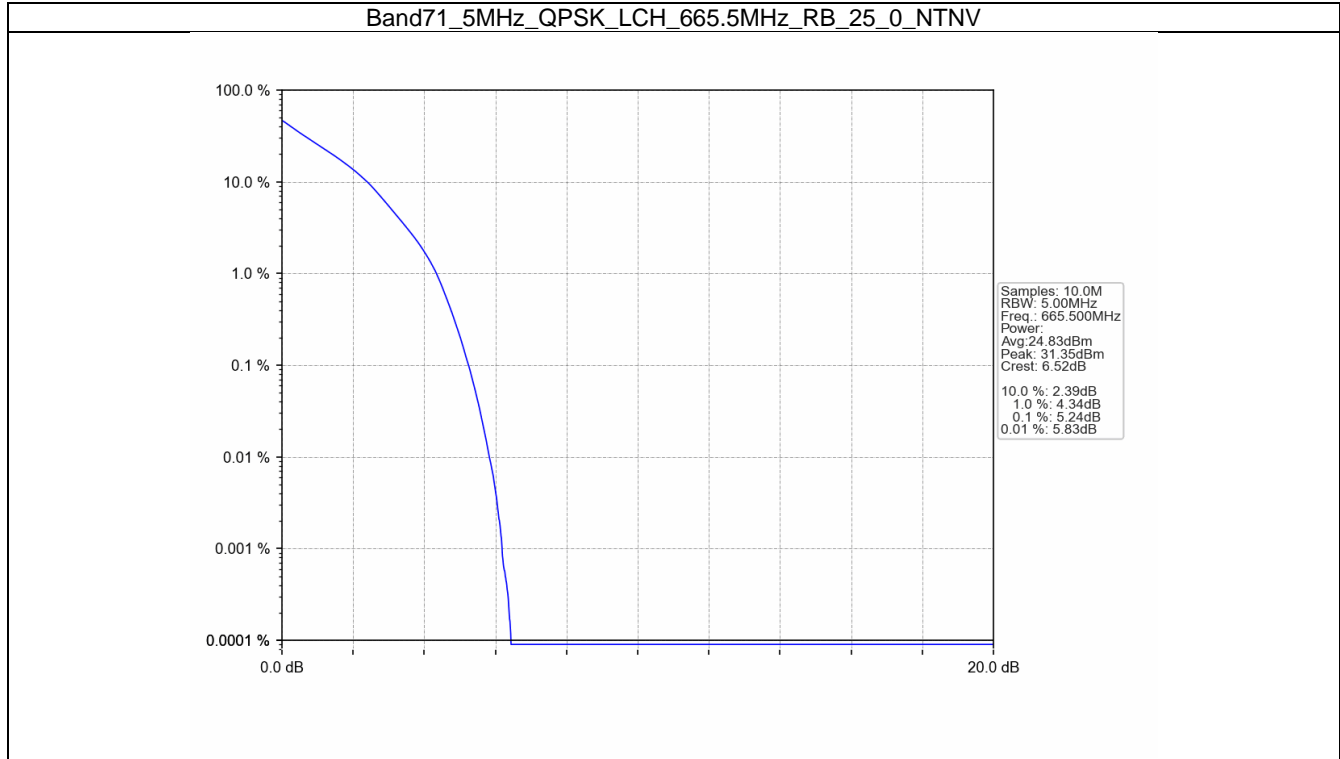
Table with 7 columns: Modulation, Frequency (MHz), RB Allocation (Size, Offset), Peak-Average Ratio (dB) (Result, Limit), and Verdict. It contains test results for QPSK, 16QAM, and 64QAM at various frequencies.



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3.1.2 Test Graph



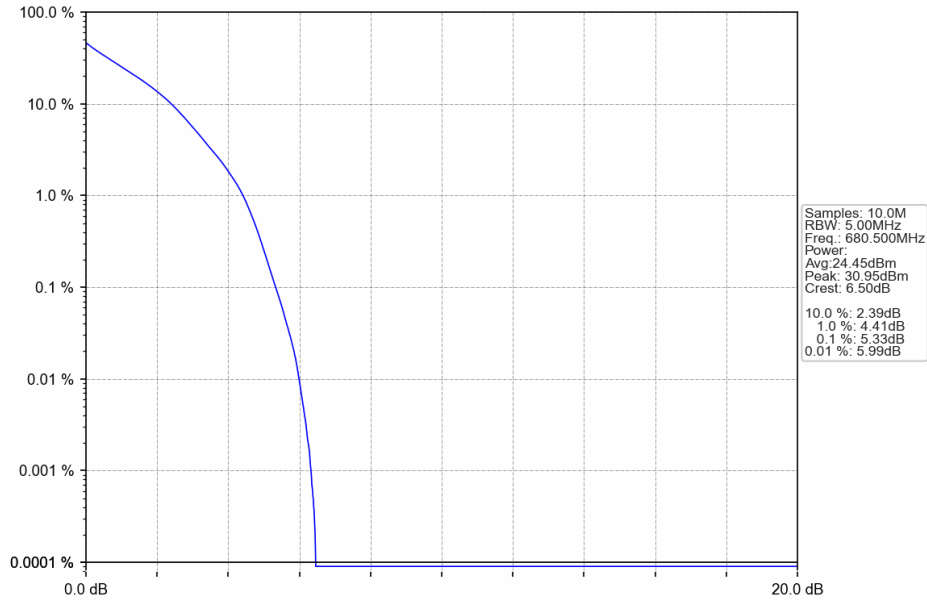
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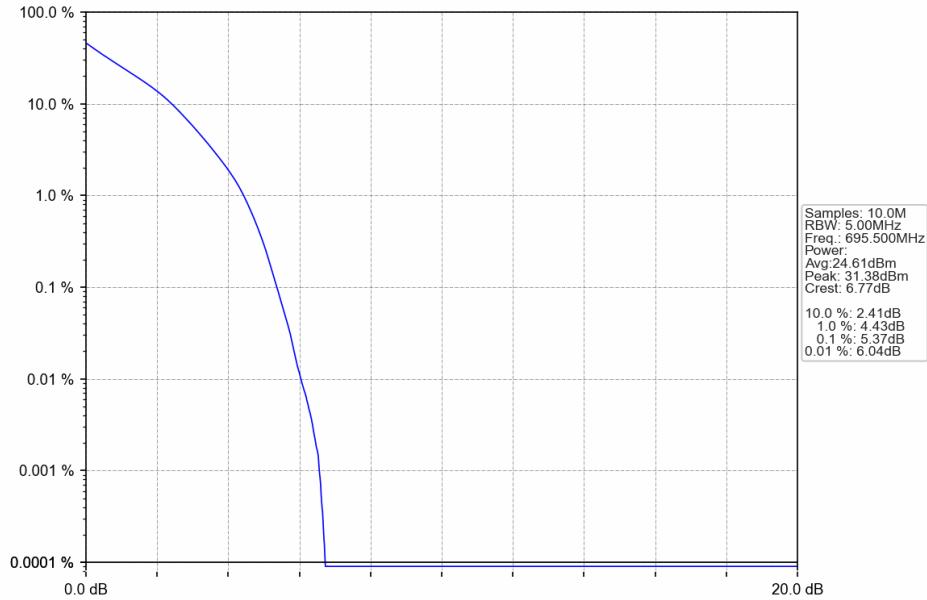
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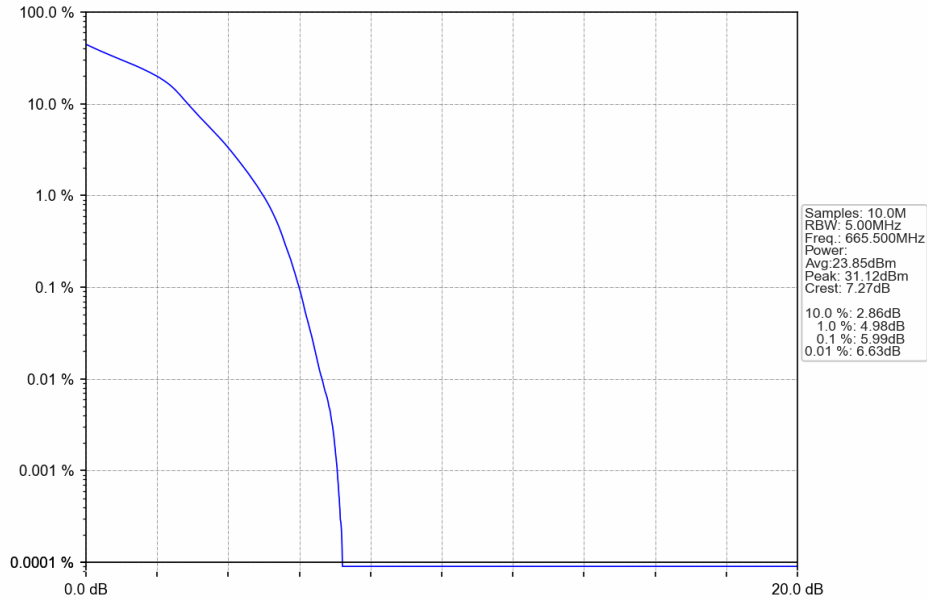
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Band71_5MHz_16QAM_LCH_665.5MHz_RB_25_0_NTNV



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