

Report No.: SUCR240200003402  
Rev.: 01  
Page: 1 of 166

# Appendix B.19

## LTE Band 71



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1. Effective (Isotropic) Radiated Power Output Data

1.1 B71\_5MHz\_ERP

1.1.1 Test Result

Band: 71 / Bandwidth: 5MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	665.5	1	0	23.44	-3.73	17.56	<=34.77	Pass		
			13	23.46	-3.73	17.58	<=34.77	Pass		
			24	23.45	-3.73	17.57	<=34.77	Pass		
		12	0	22.31	-3.73	16.43	<=34.77	Pass		
			6	22.41	-3.73	16.53	<=34.77	Pass		
			13	22.37	-3.73	16.49	<=34.77	Pass		
		25	0	22.35	-3.73	16.47	<=34.77	Pass		
		680.5	1	0	23.48	-3.73	17.60	<=34.77	Pass	
				13	23.42	-3.73	17.54	<=34.77	Pass	
	24			23.48	-3.73	17.60	<=34.77	Pass		
	12		0	22.45	-3.73	16.57	<=34.77	Pass		
			6	22.42	-3.73	16.54	<=34.77	Pass		
			13	22.39	-3.73	16.51	<=34.77	Pass		
	25		0	22.47	-3.73	16.59	<=34.77	Pass		
	695.5		1	0	23.48	-3.73	17.60	<=34.77	Pass	
				13	23.45	-3.73	17.57	<=34.77	Pass	
		24		23.49	-3.73	17.61	<=34.77	Pass		
		12	0	22.43	-3.73	16.55	<=34.77	Pass		
			6	22.42	-3.73	16.54	<=34.77	Pass		
			13	22.44	-3.73	16.56	<=34.77	Pass		
		25	0	22.47	-3.73	16.59	<=34.77	Pass		
		16QAM	665.5	1	0	22.28	-3.73	16.40	<=34.77	Pass
					13	22.30	-3.73	16.42	<=34.77	Pass
	24				22.32	-3.73	16.44	<=34.77	Pass	
12	0			21.35	-3.73	15.47	<=34.77	Pass		
	6			21.43	-3.73	15.55	<=34.77	Pass		
	13			21.38	-3.73	15.50	<=34.77	Pass		
25	0			21.40	-3.73	15.52	<=34.77	Pass		
680.5	1			0	22.76	-3.73	16.88	<=34.77	Pass	
				13	22.71	-3.73	16.83	<=34.77	Pass	
			24	22.74	-3.73	16.86	<=34.77	Pass		
	12		0	21.51	-3.73	15.63	<=34.77	Pass		
			6	21.49	-3.73	15.61	<=34.77	Pass		
			13	21.45	-3.73	15.57	<=34.77	Pass		
	25		0	21.46	-3.73	15.58	<=34.77	Pass		
	695.5		1	0	22.61	-3.73	16.73	<=34.77	Pass	
				13	22.56	-3.73	16.68	<=34.77	Pass	
24				22.60	-3.73	16.72	<=34.77	Pass		
12			0	21.45	-3.73	15.57	<=34.77	Pass		



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Report No.: SUCR240200003402  
 Rev.: 01  
 Page: 3 of 166

			6	21.44	-3.73	15.56	<=34.77	Pass	
			13	21.45	-3.73	15.57	<=34.77	Pass	
		25	0	21.49	-3.73	15.61	<=34.77	Pass	
64QAM	665.5	1	0	21.40	-3.73	15.52	<=34.77	Pass	
			13	21.37	-3.73	15.49	<=34.77	Pass	
			24	21.39	-3.73	15.51	<=34.77	Pass	
		12	0	20.40	-3.73	14.52	<=34.77	Pass	
			6	20.45	-3.73	14.57	<=34.77	Pass	
			13	20.38	-3.73	14.50	<=34.77	Pass	
		25	0	20.46	-3.73	14.58	<=34.77	Pass	
		680.5	1	0	21.66	-3.73	15.78	<=34.77	Pass
				13	21.62	-3.73	15.74	<=34.77	Pass
	24			21.64	-3.73	15.76	<=34.77	Pass	
	12		0	20.57	-3.73	14.69	<=34.77	Pass	
			6	20.51	-3.73	14.63	<=34.77	Pass	
			13	20.50	-3.73	14.62	<=34.77	Pass	
	25		0	20.57	-3.73	14.69	<=34.77	Pass	
	695.5		1	0	21.65	-3.73	15.77	<=34.77	Pass
				13	21.61	-3.73	15.73	<=34.77	Pass
		24		21.65	-3.73	15.77	<=34.77	Pass	
		12	0	20.66	-3.73	14.78	<=34.77	Pass	
			6	20.68	-3.73	14.80	<=34.77	Pass	
			13	20.68	-3.73	14.80	<=34.77	Pass	
		25	0	20.57	-3.73	14.69	<=34.77	Pass	

Note1: ERP=Conducted Power+Antenna Gain-2.15



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1.2 B71\_10MHz\_ERP

1.2.1 Test Result

Band: 71 / Bandwidth: 10MHz / NTN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	668	1	0	23.42	-3.73	17.54	<=34.77	Pass		
			25	23.42	-3.73	17.54	<=34.77	Pass		
			49	23.46	-3.73	17.58	<=34.77	Pass		
		25	0	22.45	-3.73	16.57	<=34.77	Pass		
			13	22.45	-3.73	16.57	<=34.77	Pass		
			25	22.47	-3.73	16.59	<=34.77	Pass		
		50	0	22.48	-3.73	16.60	<=34.77	Pass		
			1	0	23.43	-3.73	17.55	<=34.77	Pass	
				25	23.42	-3.73	17.54	<=34.77	Pass	
	49	23.47		-3.73	17.59	<=34.77	Pass			
	680.5	25	0	22.51	-3.73	16.63	<=34.77	Pass		
			13	22.44	-3.73	16.56	<=34.77	Pass		
			25	22.44	-3.73	16.56	<=34.77	Pass		
		50	0	22.47	-3.73	16.59	<=34.77	Pass		
			1	0	23.54	-3.73	17.66	<=34.77	Pass	
				25	23.45	-3.73	17.57	<=34.77	Pass	
		49		23.48	-3.73	17.60	<=34.77	Pass		
		25	0	22.52	-3.73	16.64	<=34.77	Pass		
			13	22.44	-3.73	16.56	<=34.77	Pass		
	25		22.46	-3.73	16.58	<=34.77	Pass			
	50	0	22.49	-3.73	16.61	<=34.77	Pass			
		16QAM	668	1	0	23.01	-3.73	17.13	<=34.77	Pass
					25	23.02	-3.73	17.14	<=34.77	Pass
	49				23.08	-3.73	17.20	<=34.77	Pass	
25	0			21.51	-3.73	15.63	<=34.77	Pass		
	13			21.49	-3.73	15.61	<=34.77	Pass		
	25			21.52	-3.73	15.64	<=34.77	Pass		
50	0		21.48	-3.73	15.60	<=34.77	Pass			
	680.5		1	0	22.64	-3.73	16.76	<=34.77	Pass	
				25	22.62	-3.73	16.74	<=34.77	Pass	
49		22.66		-3.73	16.78	<=34.77	Pass			
25		0	21.50	-3.73	15.62	<=34.77	Pass			
		13	21.45	-3.73	15.57	<=34.77	Pass			
		25	21.43	-3.73	15.55	<=34.77	Pass			
50	0	21.46	-3.73	15.58	<=34.77	Pass				
	693	1	0	22.57	-3.73	16.69	<=34.77	Pass		
			25	22.48	-3.73	16.60	<=34.77	Pass		
49			22.49	-3.73	16.61	<=34.77	Pass			
25		0	21.58	-3.73	15.70	<=34.77	Pass			
		13	21.53	-3.73	15.65	<=34.77	Pass			
		25	21.54	-3.73	15.66	<=34.77	Pass			



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Report No.: SUCR240200003402  
 Rev.: 01  
 Page: 5 of 166

		50	0	21.47	-3.73	15.59	<=34.77	Pass	
64QAM	668	1	0	21.67	-3.73	15.79	<=34.77	Pass	
			25	21.70	-3.73	15.82	<=34.77	Pass	
			49	21.71	-3.73	15.83	<=34.77	Pass	
			50	20.54	-3.73	14.66	<=34.77	Pass	
		25	13	20.56	-3.73	14.68	<=34.77	Pass	
			25	20.57	-3.73	14.69	<=34.77	Pass	
	50		20.58	-3.73	14.70	<=34.77	Pass		
	680.5	1	0	21.57	-3.73	15.69	<=34.77	Pass	
			25	21.56	-3.73	15.68	<=34.77	Pass	
			49	21.60	-3.73	15.72	<=34.77	Pass	
			50	20.64	-3.73	14.76	<=34.77	Pass	
		25	13	20.57	-3.73	14.69	<=34.77	Pass	
			25	20.55	-3.73	14.67	<=34.77	Pass	
	693	1	0	21.44	-3.73	15.56	<=34.77	Pass	
			25	21.34	-3.73	15.46	<=34.77	Pass	
			49	21.35	-3.73	15.47	<=34.77	Pass	
			50	20.62	-3.73	14.74	<=34.77	Pass	
		25	13	20.61	-3.73	14.73	<=34.77	Pass	
			25	20.61	-3.73	14.73	<=34.77	Pass	
			50	0	20.57	-3.73	14.69	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15



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1.3 B71\_15MHz\_ERP

1.3.1 Test Result

Band: 71 / Bandwidth: 15MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	670.5	1	0	23.43	-3.73	17.55	<=34.77	Pass		
			38	23.42	-3.73	17.54	<=34.77	Pass		
			74	23.43	-3.73	17.55	<=34.77	Pass		
		36	0	22.48	-3.73	16.60	<=34.77	Pass		
			18	22.45	-3.73	16.57	<=34.77	Pass		
			39	22.50	-3.73	16.62	<=34.77	Pass		
			75	0	22.49	-3.73	16.61	<=34.77	Pass	
			680.5	1	0	23.51	-3.73	17.63	<=34.77	Pass
					38	23.46	-3.73	17.58	<=34.77	Pass
	74	23.51			-3.73	17.63	<=34.77	Pass		
	36	0		22.49	-3.73	16.61	<=34.77	Pass		
		18		22.44	-3.73	16.56	<=34.77	Pass		
		39		22.45	-3.73	16.57	<=34.77	Pass		
	690.5	1	0	23.53	-3.73	17.65	<=34.77	Pass		
			38	23.49	-3.73	17.61	<=34.77	Pass		
			74	23.46	-3.73	17.58	<=34.77	Pass		
		36	0	22.50	-3.73	16.62	<=34.77	Pass		
			18	22.48	-3.73	16.60	<=34.77	Pass		
			39	22.47	-3.73	16.59	<=34.77	Pass		
	16QAM	670.5	1	0	23.01	-3.73	17.13	<=34.77	Pass	
				38	23.06	-3.73	17.18	<=34.77	Pass	
				74	23.01	-3.73	17.13	<=34.77	Pass	
			36	0	21.48	-3.73	15.60	<=34.77	Pass	
				18	21.48	-3.73	15.60	<=34.77	Pass	
39				21.52	-3.73	15.64	<=34.77	Pass		
75				0	21.50	-3.73	15.62	<=34.77	Pass	
680.5				1	0	22.70	-3.73	16.82	<=34.77	Pass
					38	22.66	-3.73	16.78	<=34.77	Pass
		74	22.69		-3.73	16.81	<=34.77	Pass		
		36	0	21.50	-3.73	15.62	<=34.77	Pass		
			18	21.44	-3.73	15.56	<=34.77	Pass		
			39	21.45	-3.73	15.57	<=34.77	Pass		
690.5		1	0	21.50	-3.73	15.62	<=34.77	Pass		
			38	22.93	-3.73	17.05	<=34.77	Pass		
			74	22.91	-3.73	17.03	<=34.77	Pass		
		36	0	22.89	-3.73	17.01	<=34.77	Pass		
			18	21.47	-3.73	15.59	<=34.77	Pass		
			39	21.45	-3.73	15.57	<=34.77	Pass		
			75	0	21.46	-3.73	15.58	<=34.77	Pass	



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Report No.: SUCR240200003402  
 Rev.: 01  
 Page: 7 of 166

		75	0	21.48	-3.73	15.60	<=34.77	Pass
64QAM	670.5	1	0	21.66	-3.73	15.78	<=34.77	Pass
			38	21.71	-3.73	15.83	<=34.77	Pass
			74	21.69	-3.73	15.81	<=34.77	Pass
			0	20.56	-3.73	14.68	<=34.77	Pass
		36	18	20.56	-3.73	14.68	<=34.77	Pass
			39	20.57	-3.73	14.69	<=34.77	Pass
	75		0	20.58	-3.73	14.70	<=34.77	Pass
	680.5	1	0	21.63	-3.73	15.75	<=34.77	Pass
			38	21.58	-3.73	15.70	<=34.77	Pass
			74	21.63	-3.73	15.75	<=34.77	Pass
			0	20.56	-3.73	14.68	<=34.77	Pass
		36	18	20.52	-3.73	14.64	<=34.77	Pass
			39	20.52	-3.73	14.64	<=34.77	Pass
	75		0	20.51	-3.73	14.63	<=34.77	Pass
	690.5	1	0	21.88	-3.73	16.00	<=34.77	Pass
			38	21.86	-3.73	15.98	<=34.77	Pass
			74	21.81	-3.73	15.93	<=34.77	Pass
			0	20.49	-3.73	14.61	<=34.77	Pass
		36	18	20.52	-3.73	14.64	<=34.77	Pass
			39	20.52	-3.73	14.64	<=34.77	Pass
	75		0	20.58	-3.73	14.70	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15



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1.4 B71\_20MHz\_ERP

1.4.1 Test Result

Band: 71 / Bandwidth: 20MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	673	1	0	23.43	-3.73	17.55	<=34.77	Pass		
			50	23.48	-3.73	17.60	<=34.77	Pass		
			99	23.49	-3.73	17.61	<=34.77	Pass		
		50	0	22.53	-3.73	16.65	<=34.77	Pass		
			25	22.51	-3.73	16.63	<=34.77	Pass		
			50	22.44	-3.73	16.56	<=34.77	Pass		
		100	0	22.45	-3.73	16.57	<=34.77	Pass		
		683	1	0	23.53	-3.73	17.65	<=34.77	Pass	
				50	23.53	-3.73	17.65	<=34.77	Pass	
	99			23.48	-3.73	17.60	<=34.77	Pass		
	50		0	22.54	-3.73	16.66	<=34.77	Pass		
			25	22.50	-3.73	16.62	<=34.77	Pass		
			50	22.54	-3.73	16.66	<=34.77	Pass		
	100		0	22.54	-3.73	16.66	<=34.77	Pass		
	688		1	0	23.48	-3.73	17.60	<=34.77	Pass	
				50	23.53	-3.73	17.65	<=34.77	Pass	
		99		23.42	-3.73	17.54	<=34.77	Pass		
		50	0	22.53	-3.73	16.65	<=34.77	Pass		
			25	22.50	-3.73	16.62	<=34.77	Pass		
			50	22.49	-3.73	16.61	<=34.77	Pass		
		100	0	22.49	-3.73	16.61	<=34.77	Pass		
		16QAM	673	1	0	22.72	-3.73	16.84	<=34.77	Pass
					50	22.81	-3.73	16.93	<=34.77	Pass
	99				22.78	-3.73	16.90	<=34.77	Pass	
50	0			21.51	-3.73	15.63	<=34.77	Pass		
	25			21.46	-3.73	15.58	<=34.77	Pass		
	50			21.42	-3.73	15.54	<=34.77	Pass		
100	0			21.48	-3.73	15.60	<=34.77	Pass		
683	1			0	22.78	-3.73	16.90	<=34.77	Pass	
				50	22.78	-3.73	16.90	<=34.77	Pass	
			99	22.72	-3.73	16.84	<=34.77	Pass		
	50		0	21.53	-3.73	15.65	<=34.77	Pass		
			25	21.49	-3.73	15.61	<=34.77	Pass		
			50	21.51	-3.73	15.63	<=34.77	Pass		
	100		0	21.56	-3.73	15.68	<=34.77	Pass		
	688		1	0	23.09	-3.73	17.21	<=34.77	Pass	
				50	23.11	-3.73	17.23	<=34.77	Pass	
99				23.04	-3.73	17.16	<=34.77	Pass		
50			0	21.51	-3.73	15.63	<=34.77	Pass		
			25	21.47	-3.73	15.59	<=34.77	Pass		
			50	21.48	-3.73	15.60	<=34.77	Pass		



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Report No.: SUCR240200003402  
 Rev.: 01  
 Page: 9 of 166

		100	0	21.53	-3.73	15.65	<=34.77	Pass	
64QAM	673	1	0	21.63	-3.73	15.75	<=34.77	Pass	
			50	21.75	-3.73	15.87	<=34.77	Pass	
			99	21.67	-3.73	15.79	<=34.77	Pass	
			0	20.61	-3.73	14.73	<=34.77	Pass	
		50	25	20.58	-3.73	14.70	<=34.77	Pass	
			50	20.53	-3.73	14.65	<=34.77	Pass	
	100	0	20.54	-3.73	14.66	<=34.77	Pass		
	683	1	0	21.86	-3.73	15.98	<=34.77	Pass	
			50	21.85	-3.73	15.97	<=34.77	Pass	
			99	21.77	-3.73	15.89	<=34.77	Pass	
			0	20.59	-3.73	14.71	<=34.77	Pass	
		50	25	20.54	-3.73	14.66	<=34.77	Pass	
			50	20.58	-3.73	14.70	<=34.77	Pass	
	100	0	20.57	-3.73	14.69	<=34.77	Pass		
	688	1	0	21.40	-3.73	15.52	<=34.77	Pass	
			50	21.40	-3.73	15.52	<=34.77	Pass	
			99	21.32	-3.73	15.44	<=34.77	Pass	
			0	20.55	-3.73	14.67	<=34.77	Pass	
		50	25	20.54	-3.73	14.66	<=34.77	Pass	
			50	20.56	-3.73	14.68	<=34.77	Pass	
	100	0	20.60	-3.73	14.72	<=34.77	Pass		
	Note1: ERP=Conducted Power+Antenna Gain-2.15								



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Report No.: SUCR240200003402  
 Rev.: 01  
 Page: 10 of 166

2. Frequency Stability

2.1 B71\_5MHz

2.1.1 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	3.5	-2.897	-0.0044	/	Pass	
					3.87	1.206	0.0018	/	Pass	
					4.45	-0.975	-0.0015	/	Pass	
				-30	3.87	1.326	0.0020	/	Pass	
					-20	3.87	-0.775	-0.0012	/	Pass
						-10	3.87	-1.362	-0.0020	/
				0	3.87	-0.706	-0.0011	/	Pass	
				10	3.87	0.261	0.0004	/	Pass	
				30	3.87	1.276	0.0019	/	Pass	
	40	3.87	1.699	0.0026	/	Pass				
	50	3.87	0.200	0.0003	/	Pass				
	680.5	25	0	20	3.5	3.081	0.0045	/	Pass	
					3.87	0.313	0.0005	/	Pass	
					4.45	-0.243	-0.0004	/	Pass	
				-30	3.87	2.195	0.0032	/	Pass	
					-20	3.87	-2.245	-0.0033	/	Pass
						-10	3.87	0.614	0.0009	/
				0	3.87	0.662	0.0010	/	Pass	
				10	3.87	2.563	0.0038	/	Pass	
				30	3.87	0.520	0.0008	/	Pass	
	40	3.87	1.035	0.0015	/	Pass				
	50	3.87	-2.000	-0.0029	/	Pass				
	695.5	25	0	20	3.5	2.519	0.0036	/	Pass	
					3.87	0.112	0.0002	/	Pass	
					4.45	-2.523	-0.0036	/	Pass	
				-30	3.87	4.095	0.0059	/	Pass	
					-20	3.87	-1.137	-0.0016	/	Pass
-10						3.87	1.663	0.0024	/	Pass
0				3.87	-1.376	-0.0020	/	Pass		
10				3.87	2.517	0.0036	/	Pass		
30				3.87	-2.562	-0.0037	/	Pass		
40	3.87	-2.965	-0.0043	/	Pass					
50	3.87	1.000	0.0014	/	Pass					
16QAM	665.5	25	0	20	3.5	0.594	0.0009	/	Pass	
					3.87	0.777	0.0012	/	Pass	
					4.45	1.262	0.0019	/	Pass	
				-30	3.87	1.029	0.0015	/	Pass	
					-20	3.87	1.561	0.0023	/	Pass
-10	3.87	1.843	0.0028	/	Pass					



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64QAM	680.5	25	0	0	3.87	-2.689	-0.0040	/	Pass			
				10	3.87	0.699	0.0011	/	Pass			
				30	3.87	1.997	0.0030	/	Pass			
				40	3.87	-0.129	-0.0002	/	Pass			
				50	3.87	3.468	0.0052	/	Pass			
				20	3.5	-2.179	-0.0032	/	Pass			
					3.87	1.795	0.0026	/	Pass			
					4.45	-0.742	-0.0011	/	Pass			
				-30	3.87	1.345	0.0020	/	Pass			
				-20	3.87	1.801	0.0026	/	Pass			
				-10	3.87	3.715	0.0055	/	Pass			
				0	3.87	1.720	0.0025	/	Pass			
				10	3.87	0.017	0.0000	/	Pass			
				30	3.87	0.864	0.0013	/	Pass			
				40	3.87	-0.098	-0.0001	/	Pass			
	50	3.87	2.478	0.0036	/	Pass						
	695.5	25	0	20	3.5	1.409	0.0020	/	Pass			
				3.87	2.046	0.0029	/	Pass				
				4.45	0.098	0.0001	/	Pass				
				-30	3.87	-2.744	-0.0039	/	Pass			
				-20	3.87	-0.264	-0.0004	/	Pass			
				-10	3.87	-1.255	-0.0018	/	Pass			
				0	3.87	-1.133	-0.0016	/	Pass			
				10	3.87	1.797	0.0026	/	Pass			
				30	3.87	-2.067	-0.0030	/	Pass			
				40	3.87	-1.812	-0.0026	/	Pass			
				50	3.87	0.689	0.0010	/	Pass			
				665.5	25	0	20	3.5	-3.894	-0.0059	/	Pass
								3.87	3.228	0.0049	/	Pass
								4.45	-1.378	-0.0021	/	Pass
-30							3.87	3.171	0.0048	/	Pass	
-20	3.87	-0.614	-0.0009				/	Pass				
-10	3.87	0.515	0.0008				/	Pass				
0	3.87	2.319	0.0035				/	Pass				
10	3.87	-2.216	-0.0033				/	Pass				
30	3.87	1.496	0.0022				/	Pass				
40	3.87	-3.430	-0.0052				/	Pass				
50	3.87	2.657	0.0040				/	Pass				
680.5	25	0	20				3.5	-3.427	-0.0050	/	Pass	
							3.87	2.515	0.0037	/	Pass	
							4.45	-1.535	-0.0023	/	Pass	
			-30				3.87	-1.273	-0.0019	/	Pass	
			-20	3.87	3.547	0.0052	/	Pass				
			-10	3.87	-0.467	-0.0007	/	Pass				
			0	3.87	3.275	0.0048	/	Pass				
			10	3.87	-0.056	-0.0001	/	Pass				
			30	3.87	0.578	0.0008	/	Pass				
			40	3.87	2.540	0.0037	/	Pass				
			50	3.87	-2.171	-0.0032	/	Pass				



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Report No.: SUCR240200003402

Rev.: 01

Page: 12 of 166

	695.5	25	0	20	3.5	-1.835	-0.0026	/	Pass
					3.87	-1.808	-0.0026	/	Pass
					4.45	-3.659	-0.0053	/	Pass
				-30	3.87	2.293	0.0033	/	Pass
				-20	3.87	-1.743	-0.0025	/	Pass
				-10	3.87	2.283	0.0033	/	Pass
				0	3.87	-1.473	-0.0021	/	Pass
				10	3.87	-0.509	-0.0007	/	Pass
				30	3.87	-1.354	-0.0019	/	Pass
				40	3.87	4.042	0.0058	/	Pass
50	3.87	-2.509	-0.0036	/	Pass				



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2.2 B71\_10MHz

2.2.1 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	3.5	-0.189	-0.0003	/	Pass	
					3.87	-1.548	-0.0023	/	Pass	
					4.45	-1.069	-0.0016	/	Pass	
				-30	3.87	-1.919	-0.0029	/	Pass	
					-20	3.87	1.346	0.0020	/	Pass
						3.87	-2.413	-0.0036	/	Pass
				0	3.87	-0.126	-0.0002	/	Pass	
				10	3.87	0.897	0.0013	/	Pass	
				30	3.87	-1.054	-0.0016	/	Pass	
				40	3.87	-4.277	-0.0064	/	Pass	
	50	3.87	-1.690	-0.0025	/	Pass				
	680.5	50	0	20	3.5	-1.303	-0.0019	/	Pass	
					3.87	0.613	0.0009	/	Pass	
					4.45	1.482	0.0022	/	Pass	
				-30	3.87	1.494	0.0022	/	Pass	
					-20	3.87	0.075	0.0001	/	Pass
						3.87	1.558	0.0023	/	Pass
				0	3.87	1.342	0.0020	/	Pass	
				10	3.87	3.304	0.0049	/	Pass	
				30	3.87	1.320	0.0019	/	Pass	
				40	3.87	-2.461	-0.0036	/	Pass	
	50	3.87	-1.071	-0.0016	/	Pass				
	693	50	0	20	3.5	1.321	0.0019	/	Pass	
					3.87	-2.028	-0.0029	/	Pass	
					4.45	-0.566	-0.0008	/	Pass	
				-30	3.87	-2.395	-0.0035	/	Pass	
					-20	3.87	0.507	0.0007	/	Pass
						3.87	-0.858	-0.0012	/	Pass
				0	3.87	0.435	0.0006	/	Pass	
				10	3.87	1.927	0.0028	/	Pass	
30				3.87	-0.680	-0.0010	/	Pass		
40				3.87	-0.001	0.0000	/	Pass		
50	3.87	-1.376	-0.0020	/	Pass					
16QAM	668	50	0	20	3.5	0.431	0.0006	/	Pass	
					3.87	-4.200	-0.0063	/	Pass	
					4.45	-1.677	-0.0025	/	Pass	
				-30	3.87	-1.466	-0.0022	/	Pass	
					-20	3.87	0.059	0.0001	/	Pass
						3.87	-2.830	-0.0042	/	Pass
				0	3.87	-3.897	-0.0058	/	Pass	
				10	3.87	-4.199	-0.0063	/	Pass	



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64QAM	680.5	50	0	30	3.87	-4.108	-0.0061	/	Pass
				40	3.87	-4.414	-0.0066	/	Pass
				50	3.87	-1.648	-0.0025	/	Pass
				20	3.5	1.032	0.0015	/	Pass
					3.87	-0.125	-0.0002	/	Pass
					4.45	-1.957	-0.0029	/	Pass
				-30	3.87	-0.064	-0.0001	/	Pass
				-20	3.87	0.128	0.0002	/	Pass
				-10	3.87	0.167	0.0002	/	Pass
				0	3.87	-1.023	-0.0015	/	Pass
				10	3.87	1.688	0.0025	/	Pass
				30	3.87	-0.273	-0.0004	/	Pass
	40	3.87	1.309	0.0019	/	Pass			
	50	3.87	0.431	0.0006	/	Pass			
	693	50	0	20	3.5	-0.875	-0.0013	/	Pass
					3.87	-0.759	-0.0011	/	Pass
					4.45	-3.028	-0.0044	/	Pass
				-30	3.87	-2.622	-0.0038	/	Pass
				-20	3.87	3.958	0.0057	/	Pass
				-10	3.87	-0.117	-0.0002	/	Pass
				0	3.87	-2.115	-0.0031	/	Pass
				10	3.87	-0.485	-0.0007	/	Pass
				30	3.87	-0.302	-0.0004	/	Pass
				40	3.87	-0.115	-0.0002	/	Pass
				50	3.87	-1.629	-0.0024	/	Pass
				668	50	0	20	3.5	0.681
	3.87	0.237	0.0004					/	Pass
	4.45	1.174	0.0018					/	Pass
-30	3.87	-1.956	-0.0029				/	Pass	
-20	3.87	-2.863	-0.0043				/	Pass	
-10	3.87	-2.171	-0.0033				/	Pass	
0	3.87	-2.692	-0.0040				/	Pass	
10	3.87	0.018	0.0000				/	Pass	
30	3.87	-2.486	-0.0037				/	Pass	
40	3.87	-4.619	-0.0069				/	Pass	
50	3.87	-2.126	-0.0032		/	Pass			
680.5	50	0	20		3.5	0.863	0.0013	/	Pass
					3.87	-3.176	-0.0047	/	Pass
					4.45	1.403	0.0021	/	Pass
			-30		3.87	1.791	0.0026	/	Pass
			-20		3.87	-0.466	-0.0007	/	Pass
			-10		3.87	-0.779	-0.0011	/	Pass
			0		3.87	1.572	0.0023	/	Pass
			10		3.87	1.989	0.0029	/	Pass
			30		3.87	-2.554	-0.0038	/	Pass
			40	3.87	-2.179	-0.0032	/	Pass	
50	3.87	3.131	0.0046	/	Pass				
693	50	0	20	3.5	-2.511	-0.0036	/	Pass	
				3.87	-1.295	-0.0019	/	Pass	



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Report No.: SUCR240200003402

Rev.: 01

Page: 15 of 166

				4.45	-1.465	-0.0021	/	Pass
			-30	3.87	1.562	0.0023	/	Pass
			-20	3.87	-2.283	-0.0033	/	Pass
			-10	3.87	-1.555	-0.0022	/	Pass
			0	3.87	-0.036	-0.0001	/	Pass
			10	3.87	-1.243	-0.0018	/	Pass
			30	3.87	-1.142	-0.0016	/	Pass
			40	3.87	1.407	0.0020	/	Pass
			50	3.87	0.201	0.0003	/	Pass



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Report No.: SUCR240200003402  
 Rev.: 01  
 Page: 16 of 166

2.3 B71\_15MHz

2.3.1 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	3.5	-3.822	-0.0057	/	Pass	
					3.87	-0.946	-0.0014	/	Pass	
					4.45	0.271	0.0004	/	Pass	
				-30	3.87	-1.777	-0.0027	/	Pass	
					-20	3.87	1.665	0.0025	/	Pass
						3.87	-1.426	-0.0021	/	Pass
				0	3.87	-4.177	-0.0062	/	Pass	
				10	3.87	-1.065	-0.0016	/	Pass	
				30	3.87	0.380	0.0006	/	Pass	
				40	3.87	-1.068	-0.0016	/	Pass	
	50	3.87	-0.581	-0.0009	/	Pass				
	680.5	75	0	20	3.5	-0.840	-0.0012	/	Pass	
					3.87	2.265	0.0033	/	Pass	
					4.45	-1.953	-0.0029	/	Pass	
				-30	3.87	-0.215	-0.0003	/	Pass	
					-20	3.87	1.632	0.0024	/	Pass
						3.87	-2.755	-0.0040	/	Pass
				0	3.87	3.992	0.0059	/	Pass	
				10	3.87	0.474	0.0007	/	Pass	
				30	3.87	-1.212	-0.0018	/	Pass	
				40	3.87	2.186	0.0032	/	Pass	
	50	3.87	-0.280	-0.0004	/	Pass				
	690.5	75	0	20	3.5	-0.379	-0.0005	/	Pass	
					3.87	1.071	0.0016	/	Pass	
					4.45	-3.595	-0.0052	/	Pass	
				-30	3.87	2.507	0.0036	/	Pass	
					-20	3.87	-1.062	-0.0015	/	Pass
						3.87	0.999	0.0014	/	Pass
				-10	3.87	0.999	0.0014	/	Pass	
				0	3.87	-0.743	-0.0011	/	Pass	
10				3.87	2.915	0.0042	/	Pass		
30				3.87	0.810	0.0012	/	Pass		
40	3.87	-1.489	-0.0022	/	Pass					
50	3.87	1.067	0.0015	/	Pass					
16QAM	670.5	75	0	20	3.5	-1.521	-0.0023	/	Pass	
					3.87	-2.531	-0.0038	/	Pass	
					4.45	-1.997	-0.0030	/	Pass	
				-30	3.87	-1.462	-0.0022	/	Pass	
					-20	3.87	-0.749	-0.0011	/	Pass
						3.87	-0.758	-0.0011	/	Pass
				0	3.87	0.373	0.0006	/	Pass	
				10	3.87	-1.673	-0.0025	/	Pass	



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64QAM	680.5	75	0	30	3.87	-1.096	-0.0016	/	Pass
				40	3.87	-1.150	-0.0017	/	Pass
				50	3.87	-2.271	-0.0034	/	Pass
				20	3.5	-0.205	-0.0003	/	Pass
					3.87	-0.933	-0.0014	/	Pass
					4.45	-1.748	-0.0026	/	Pass
				-30	3.87	-0.129	-0.0002	/	Pass
				-20	3.87	2.374	0.0035	/	Pass
				-10	3.87	-1.670	-0.0025	/	Pass
				0	3.87	-0.697	-0.0010	/	Pass
				10	3.87	0.112	0.0002	/	Pass
				30	3.87	1.990	0.0029	/	Pass
	40	3.87	-0.350	-0.0005	/	Pass			
	50	3.87	0.034	0.0000	/	Pass			
	690.5	75	0	20	3.5	-1.050	-0.0015	/	Pass
					3.87	-0.478	-0.0007	/	Pass
					4.45	-1.180	-0.0017	/	Pass
				-30	3.87	-0.942	-0.0014	/	Pass
				-20	3.87	-0.278	-0.0004	/	Pass
				-10	3.87	0.284	0.0004	/	Pass
				0	3.87	0.426	0.0006	/	Pass
				10	3.87	1.277	0.0018	/	Pass
				30	3.87	-1.075	-0.0016	/	Pass
				40	3.87	-0.332	-0.0005	/	Pass
				50	3.87	0.077	0.0001	/	Pass
				670.5	75	0	20	3.5	0.735
	3.87	-0.850	-0.0013					/	Pass
	4.45	-1.147	-0.0017					/	Pass
-30	3.87	-0.967	-0.0014				/	Pass	
-20	3.87	-2.258	-0.0034				/	Pass	
-10	3.87	-5.365	-0.0080				/	Pass	
0	3.87	-0.132	-0.0002				/	Pass	
10	3.87	-1.226	-0.0018				/	Pass	
30	3.87	-3.132	-0.0047				/	Pass	
40	3.87	-2.348	-0.0035				/	Pass	
50	3.87	-2.185	-0.0033				/	Pass	
680.5	75	0	20				3.5	-0.705	-0.0010
				3.87	-2.801	-0.0041	/	Pass	
				4.45	-2.838	-0.0042	/	Pass	
			-30	3.87	-0.654	-0.0010	/	Pass	
			-20	3.87	0.495	0.0007	/	Pass	
			-10	3.87	0.255	0.0004	/	Pass	
			0	3.87	0.518	0.0008	/	Pass	
			10	3.87	-4.173	-0.0061	/	Pass	
			30	3.87	-0.585	-0.0009	/	Pass	
			40	3.87	0.701	0.0010	/	Pass	
			50	3.87	-4.179	-0.0061	/	Pass	
			690.5	75	0	20	3.5	0.633	0.0009
3.87	-2.341	-0.0034					/	Pass	



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Report No.: SUCR240200003402

Rev.: 01

Page: 18 of 166

				4.45	0.621	0.0009	/	Pass
			-30	3.87	-1.150	-0.0017	/	Pass
			-20	3.87	1.362	0.0020	/	Pass
			-10	3.87	-1.471	-0.0021	/	Pass
			0	3.87	0.295	0.0004	/	Pass
			10	3.87	-1.042	-0.0015	/	Pass
			30	3.87	0.393	0.0006	/	Pass
			40	3.87	-1.022	-0.0015	/	Pass
			50	3.87	0.503	0.0007	/	Pass



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2.4 B71\_20MHz

2.4.1 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	3.5	-2.714	-0.0040	/	Pass	
					3.87	-1.399	-0.0021	/	Pass	
					4.45	1.127	0.0017	/	Pass	
				-30	3.87	-1.681	-0.0025	/	Pass	
					-20	3.87	-2.072	-0.0031	/	Pass
						-10	3.87	-0.290	-0.0004	/
				0	3.87	1.175	0.0017	/	Pass	
				10	3.87	-3.497	-0.0052	/	Pass	
				30	3.87	-1.580	-0.0023	/	Pass	
				40	3.87	0.454	0.0007	/	Pass	
	50	3.87	-1.563	-0.0023	/	Pass				
	683	100	0	20	3.5	3.180	0.0047	/	Pass	
					3.87	3.716	0.0054	/	Pass	
					4.45	-0.048	-0.0001	/	Pass	
				-30	3.87	6.089	0.0089	/	Pass	
					-20	3.87	0.174	0.0003	/	Pass
						-10	3.87	3.045	0.0045	/
				0	3.87	-0.530	-0.0008	/	Pass	
				10	3.87	1.764	0.0026	/	Pass	
				30	3.87	5.060	0.0074	/	Pass	
				40	3.87	5.389	0.0079	/	Pass	
	50	3.87	2.061	0.0030	/	Pass				
	688	100	0	20	3.5	-2.036	-0.0030	/	Pass	
					3.87	-1.732	-0.0025	/	Pass	
					4.45	-0.543	-0.0008	/	Pass	
				-30	3.87	-3.239	-0.0047	/	Pass	
					-20	3.87	-4.148	-0.0060	/	Pass
						-10	3.87	0.409	0.0006	/
				0	3.87	-1.781	-0.0026	/	Pass	
				10	3.87	0.803	0.0012	/	Pass	
30				3.87	-4.550	-0.0066	/	Pass		
40				3.87	-0.080	-0.0001	/	Pass		
50	3.87	1.234	0.0018	/	Pass					
16QAM	673	100	0	20	3.5	-4.788	-0.0071	/	Pass	
					3.87	-2.025	-0.0030	/	Pass	
					4.45	-0.868	-0.0013	/	Pass	
				-30	3.87	0.148	0.0002	/	Pass	
					-20	3.87	-0.303	-0.0005	/	Pass
						-10	3.87	-2.542	-0.0038	/
				0	3.87	1.450	0.0022	/	Pass	
				10	3.87	1.916	0.0028	/	Pass	



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64QAM	683	100	0	30	3.87	-0.878	-0.0013	/	Pass
				40	3.87	-0.211	-0.0003	/	Pass
				50	3.87	-2.194	-0.0033	/	Pass
				20	3.5	3.037	0.0044	/	Pass
					3.87	4.931	0.0072	/	Pass
					4.45	4.589	0.0067	/	Pass
				-30	3.87	4.093	0.0060	/	Pass
				-20	3.87	3.695	0.0054	/	Pass
				-10	3.87	4.040	0.0059	/	Pass
				0	3.87	4.811	0.0070	/	Pass
	10	3.87	4.092	0.0060	/	Pass			
	30	3.87	2.527	0.0037	/	Pass			
	40	3.87	0.786	0.0012	/	Pass			
	50	3.87	3.510	0.0051	/	Pass			
	688	100	0	20	3.5	0.507	0.0007	/	Pass
					3.87	-2.937	-0.0043	/	Pass
					4.45	-1.528	-0.0022	/	Pass
				-30	3.87	-0.454	-0.0007	/	Pass
				-20	3.87	-1.243	-0.0018	/	Pass
				-10	3.87	-1.261	-0.0018	/	Pass
0				3.87	-1.364	-0.0020	/	Pass	
10				3.87	-1.818	-0.0026	/	Pass	
30				3.87	-1.196	-0.0017	/	Pass	
40				3.87	1.317	0.0019	/	Pass	
50	3.87	1.747	0.0025	/	Pass				
673	100	0	20	3.5	0.139	0.0002	/	Pass	
				3.87	-0.451	-0.0007	/	Pass	
				4.45	-0.526	-0.0008	/	Pass	
			-30	3.87	-0.728	-0.0011	/	Pass	
			-20	3.87	0.109	0.0002	/	Pass	
			-10	3.87	1.802	0.0027	/	Pass	
			0	3.87	0.989	0.0015	/	Pass	
			10	3.87	1.321	0.0020	/	Pass	
			30	3.87	2.650	0.0039	/	Pass	
			40	3.87	1.302	0.0019	/	Pass	
50	3.87	-0.419	-0.0006	/	Pass				
683	100	0	20	3.5	5.011	0.0073	/	Pass	
				3.87	0.174	0.0003	/	Pass	
				4.45	4.553	0.0067	/	Pass	
			-30	3.87	5.512	0.0081	/	Pass	
			-20	3.87	4.272	0.0063	/	Pass	
			-10	3.87	5.271	0.0077	/	Pass	
			0	3.87	4.185	0.0061	/	Pass	
			10	3.87	1.402	0.0021	/	Pass	
			30	3.87	2.491	0.0036	/	Pass	
			40	3.87	0.515	0.0008	/	Pass	
50	3.87	2.166	0.0032	/	Pass				
688	100	0	20	3.5	1.570	0.0023	/	Pass	
				3.87	1.123	0.0016	/	Pass	



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Report No.: SUCR240200003402

Rev.: 01

Page: 21 of 166

				4.45	-0.360	-0.0005	/	Pass
			-30	3.87	-0.228	-0.0003	/	Pass
			-20	3.87	0.977	0.0014	/	Pass
			-10	3.87	-4.125	-0.0060	/	Pass
			0	3.87	-0.902	-0.0013	/	Pass
			10	3.87	-0.713	-0.0010	/	Pass
			30	3.87	-0.309	-0.0004	/	Pass
			40	3.87	0.883	0.0013	/	Pass
			50	3.87	1.138	0.0017	/	Pass



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### 3. 99% & 26dB Bandwidth

#### 3.1 Band71\_OBW

##### 3.1.1 Test Result

Band: 71 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	665.5	25	0	4.528	/	Pass
		680.5	25	0	4.547	/	Pass
		695.5	25	0	4.561	/	Pass
	16QAM	665.5	25	0	4.515	/	Pass
		680.5	25	0	4.566	/	Pass
		695.5	25	0	4.538	/	Pass
	64QAM	665.5	25	0	4.526	/	Pass
		680.5	25	0	4.537	/	Pass
		695.5	25	0	4.538	/	Pass
10	QPSK	668	50	0	9.071	/	Pass
		680.5	50	0	9.056	/	Pass
		693	50	0	9.071	/	Pass
	16QAM	668	50	0	9.046	/	Pass
		680.5	50	0	9.049	/	Pass
		693	50	0	9.051	/	Pass
	64QAM	668	50	0	9.053	/	Pass
		680.5	50	0	9.041	/	Pass
		693	50	0	9.035	/	Pass
15	QPSK	670.5	75	0	13.610	/	Pass
		680.5	75	0	13.510	/	Pass
		690.5	75	0	13.581	/	Pass
	16QAM	670.5	75	0	13.615	/	Pass
		680.5	75	0	13.587	/	Pass
		690.5	75	0	13.572	/	Pass
	64QAM	670.5	75	0	13.597	/	Pass
		680.5	75	0	13.563	/	Pass
		690.5	75	0	13.585	/	Pass
20	QPSK	673	100	0	18.074	/	Pass
		683	100	0	18.119	/	Pass
		688	100	0	18.100	/	Pass
	16QAM	673	100	0	18.118	/	Pass
		683	100	0	18.083	/	Pass
		688	100	0	18.118	/	Pass
	64QAM	673	100	0	18.014	/	Pass
		683	100	0	18.096	/	Pass
		688	100	0	18.155	/	Pass

### 3.2 Band71\_XDB



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**3.2.1 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	5.069	/	Pass
		680.5	25	0	5.060	/	Pass
		695.5	25	0	5.040	/	Pass
	16QAM	665.5	25	0	5.031	/	Pass
		680.5	25	0	5.045	/	Pass
		695.5	25	0	5.013	/	Pass
	64QAM	665.5	25	0	5.033	/	Pass
		680.5	25	0	5.061	/	Pass
		695.5	25	0	5.059	/	Pass
10	QPSK	668	50	0	10.091	/	Pass
		680.5	50	0	9.971	/	Pass
		693	50	0	9.999	/	Pass
	16QAM	668	50	0	9.957	/	Pass
		680.5	50	0	10.032	/	Pass
		693	50	0	10.041	/	Pass
	64QAM	668	50	0	9.968	/	Pass
		680.5	50	0	9.922	/	Pass
		693	50	0	10.444	/	Pass
15	QPSK	670.5	75	0	14.913	/	Pass
		680.5	75	0	14.910	/	Pass
		690.5	75	0	14.949	/	Pass
	16QAM	670.5	75	0	15.034	/	Pass
		680.5	75	0	14.910	/	Pass
		690.5	75	0	14.987	/	Pass
	64QAM	670.5	75	0	14.901	/	Pass
		680.5	75	0	14.938	/	Pass
		690.5	75	0	14.894	/	Pass
20	QPSK	673	100	0	19.660	/	Pass
		683	100	0	19.805	/	Pass
		688	100	0	19.842	/	Pass
	16QAM	673	100	0	19.611	/	Pass
		683	100	0	19.883	/	Pass
		688	100	0	19.799	/	Pass
	64QAM	673	100	0	19.747	/	Pass
		683	100	0	19.871	/	Pass
		688	100	0	19.858	/	Pass



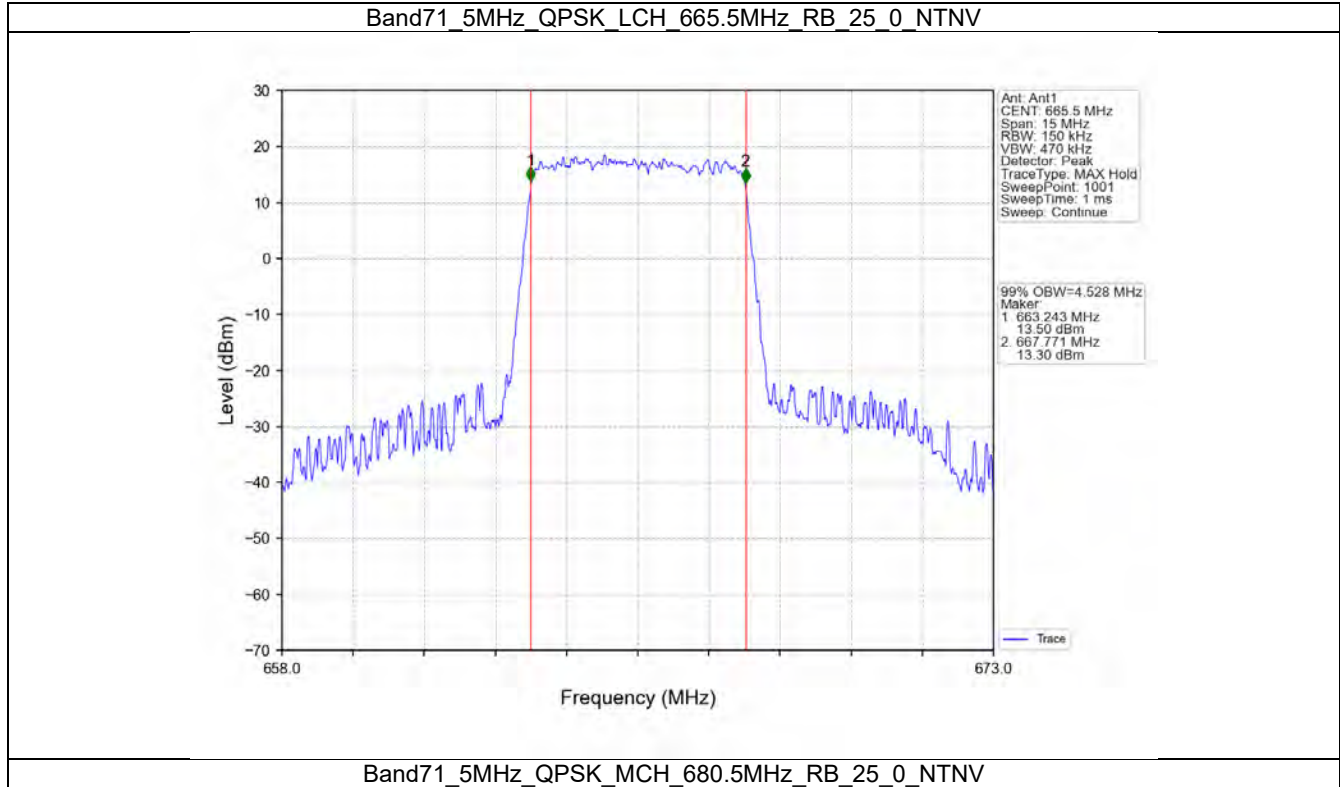
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### 3.1 Band71\_OBW

#### 3.1.2 Test Graph

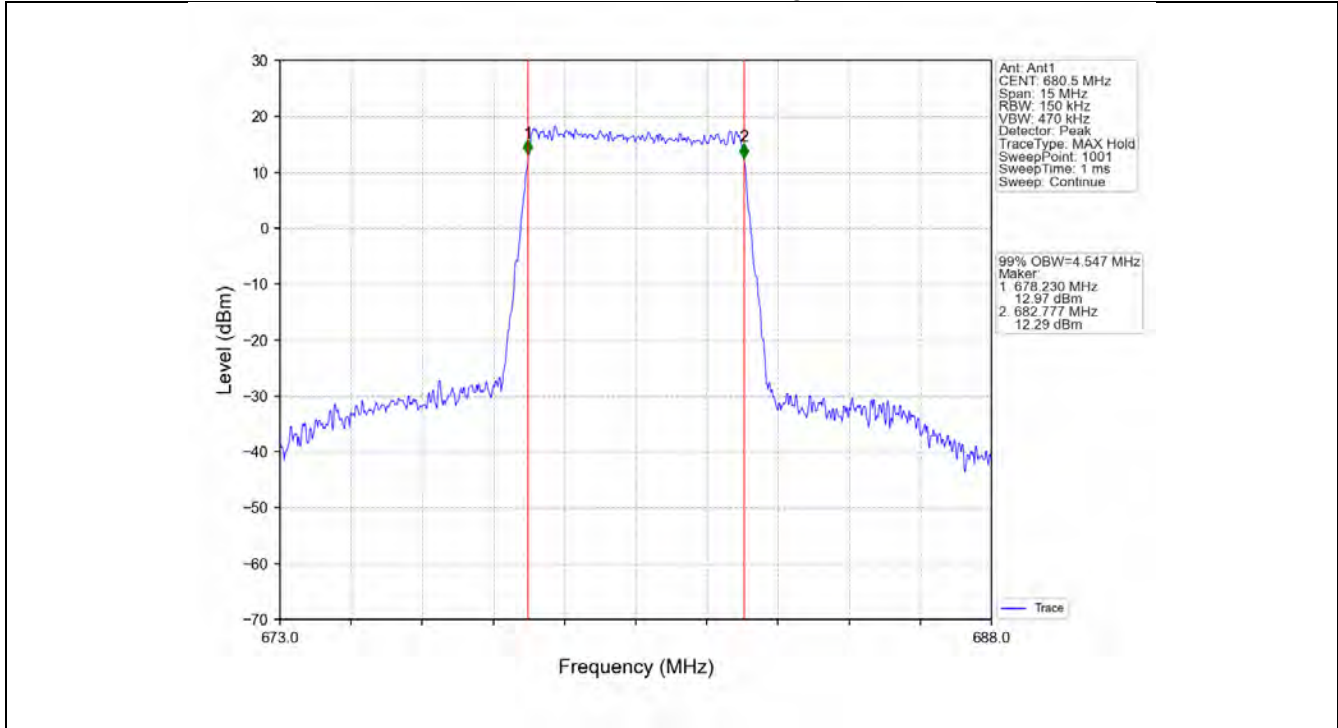


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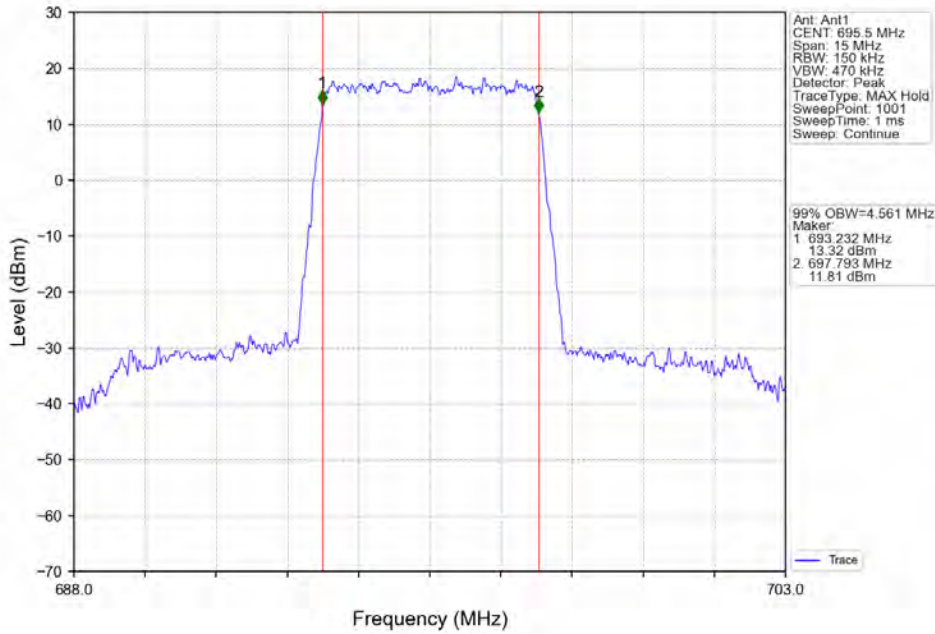
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Band71\_5MHz\_QPSK\_HCH\_695.5MHz\_RB\_25\_0\_NTNV



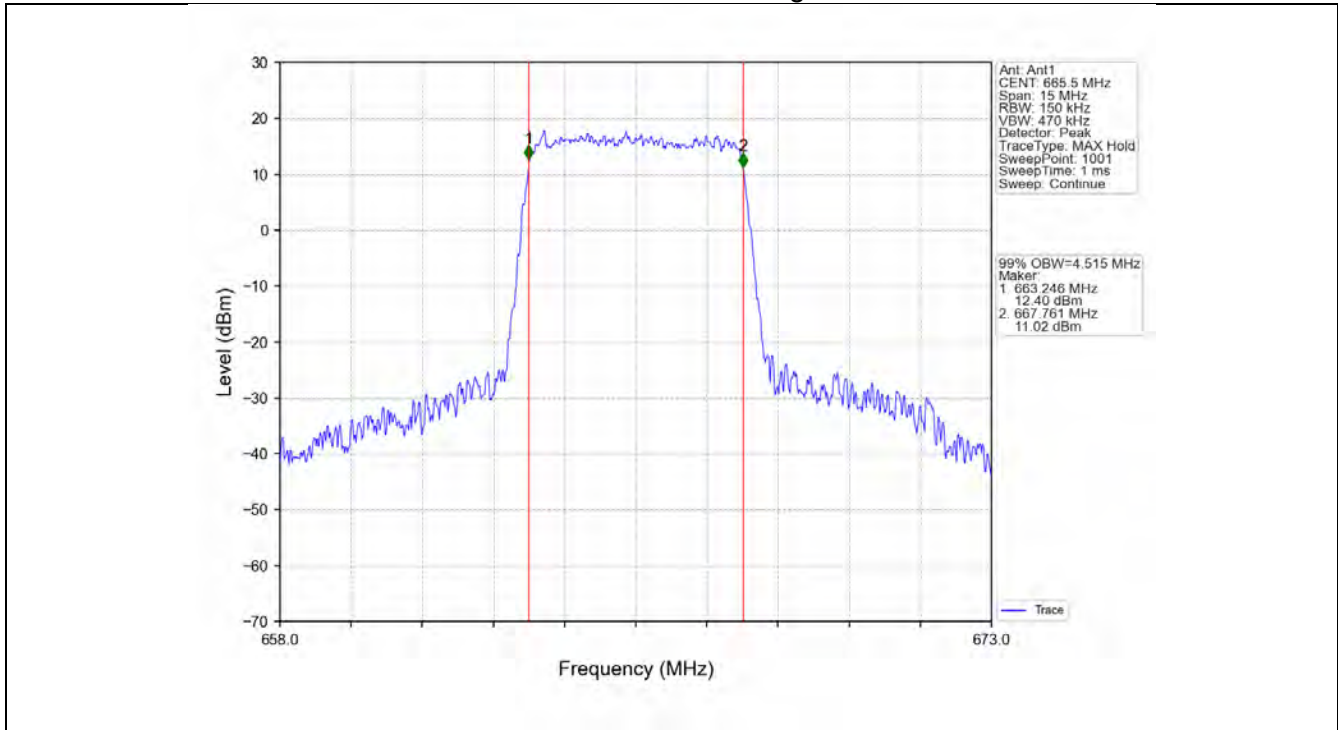
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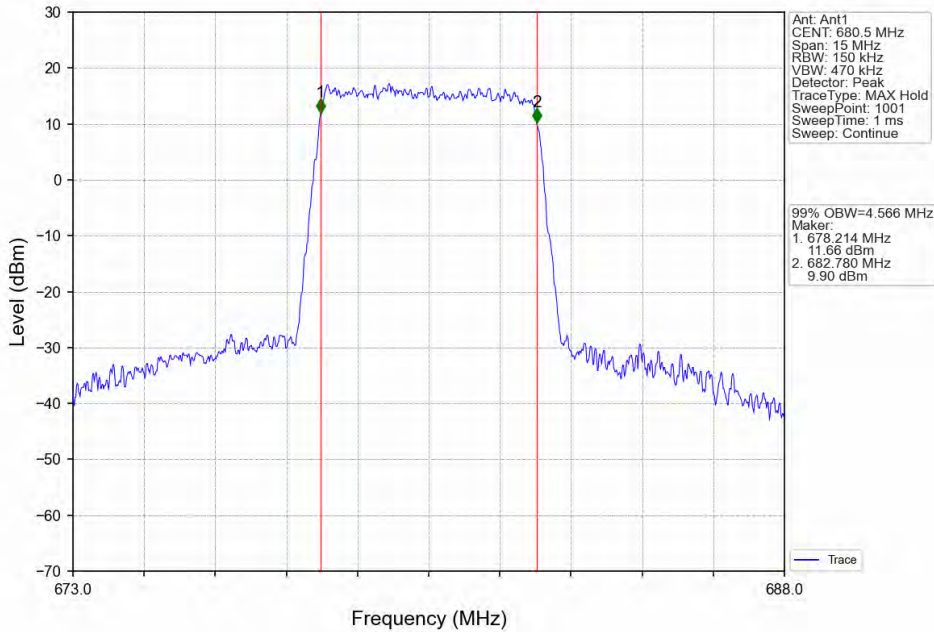


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Band71 5MHz 16QAM MCH 680.5MHz\_RB\_25\_0\_NTNV



Band71 5MHz 16QAM HCH 695.5MHz\_RB\_25\_0\_NTNV



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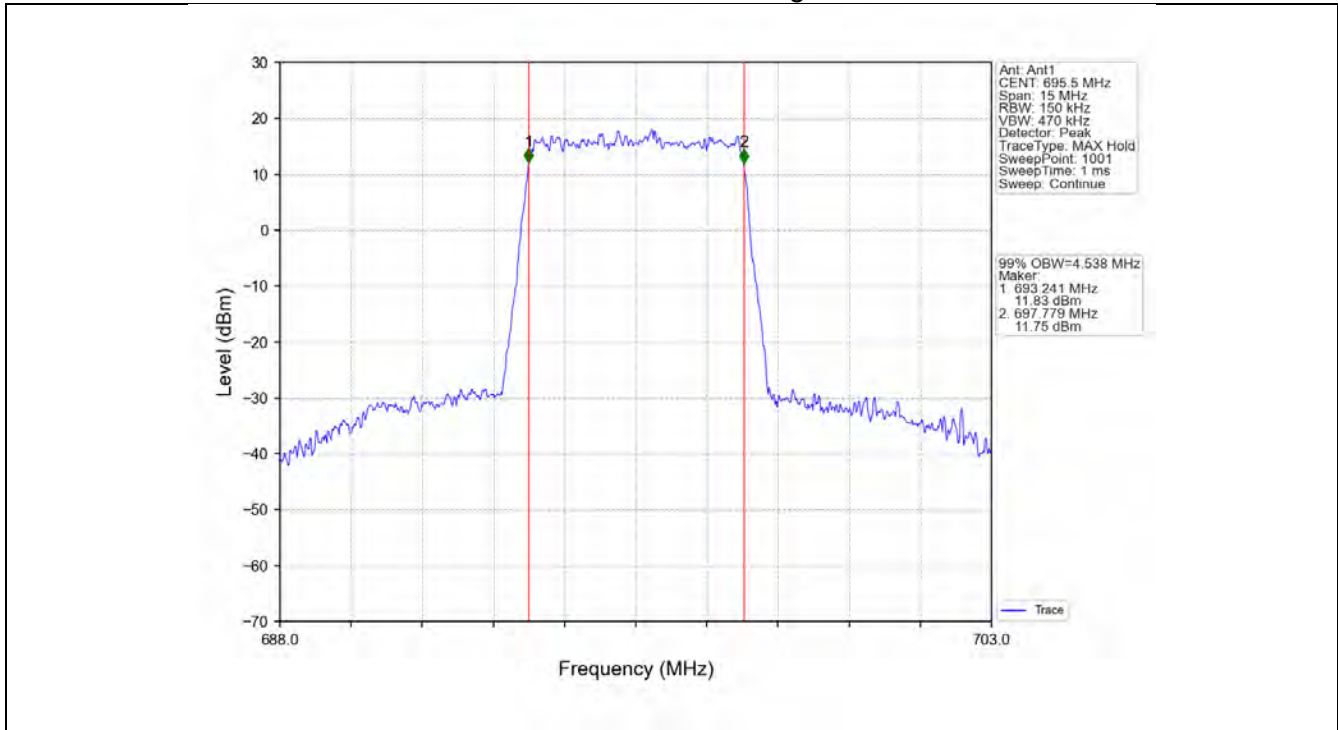
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Report No.: SUCR240200003402

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Page: 29 of 166



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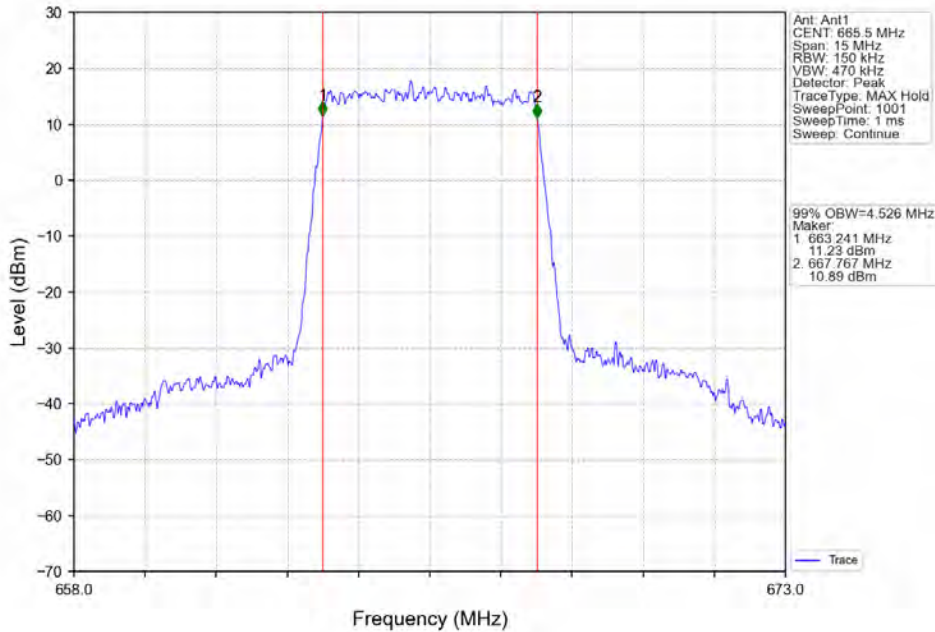
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Band71\_5MHz\_64QAM\_LCH\_665.5MHz\_RB\_25\_0\_NTNV



Band71\_5MHz\_64QAM\_MCH\_680.5MHz\_RB\_25\_0\_NTNV

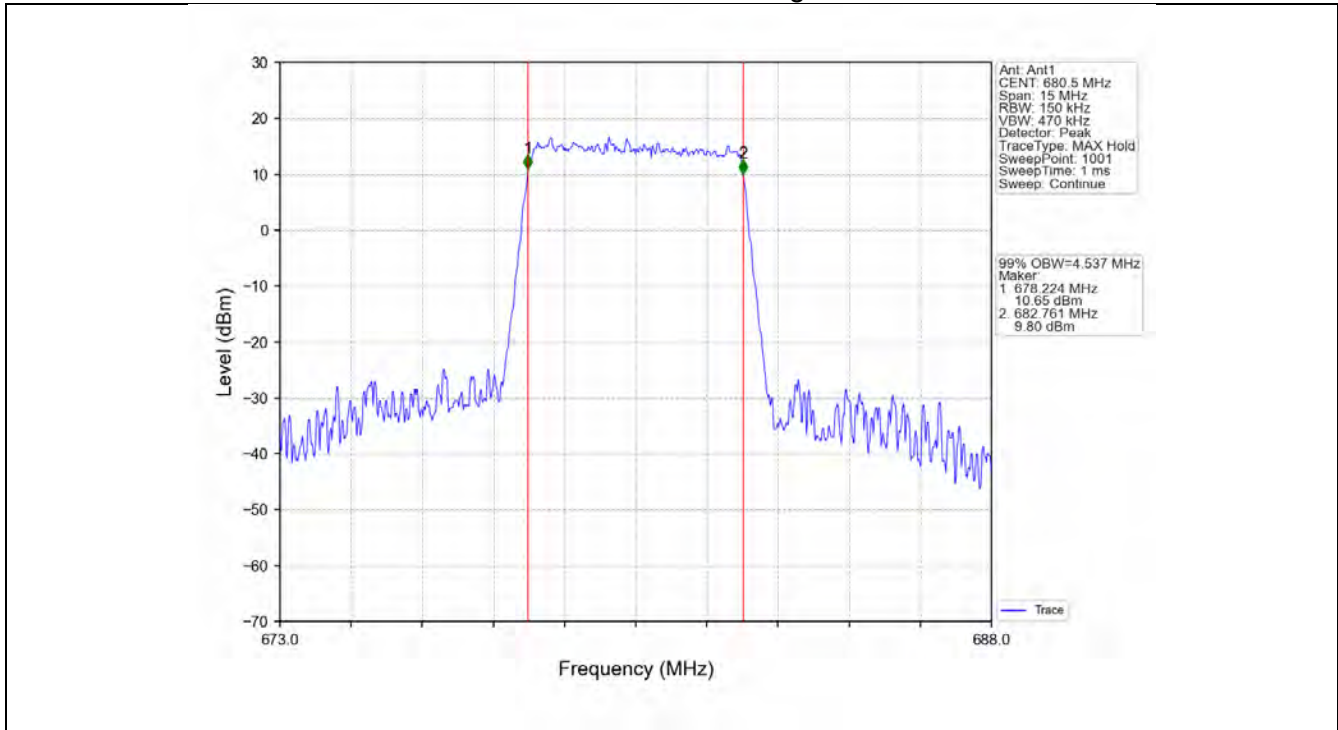


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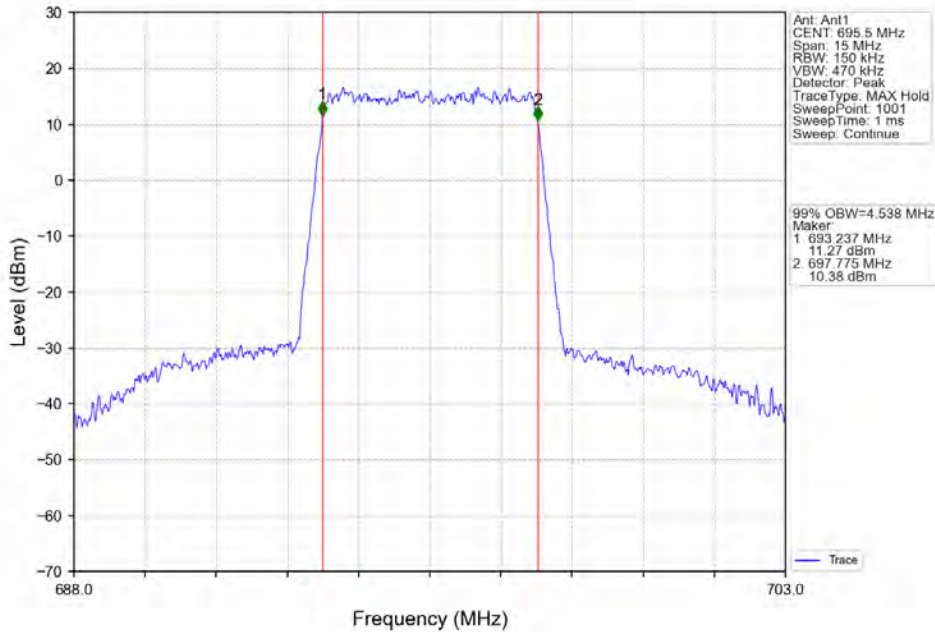
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Band71\_5MHz\_64QAM\_HCH\_695.5MHz\_RB\_25\_0\_NTNV



Band71\_10MHz\_QPSK\_LCH\_668MHz\_RB\_50\_0\_NTNV

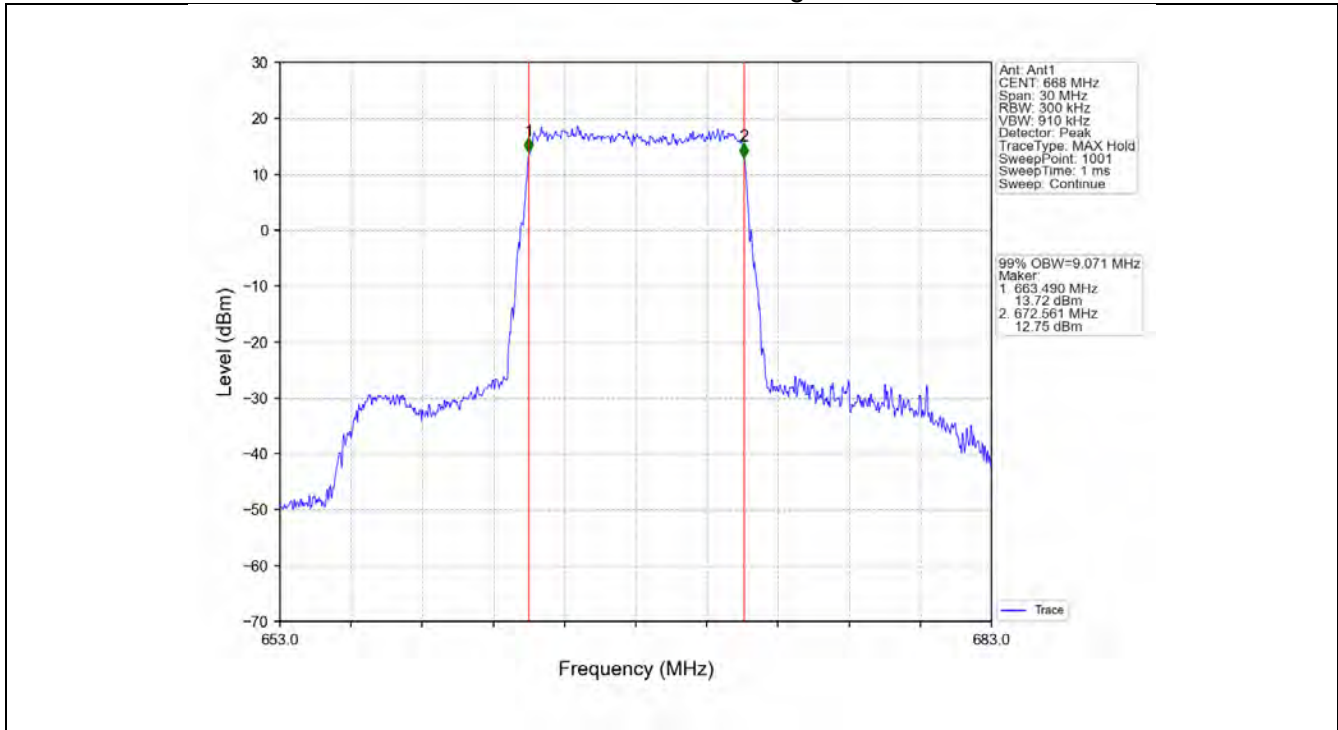


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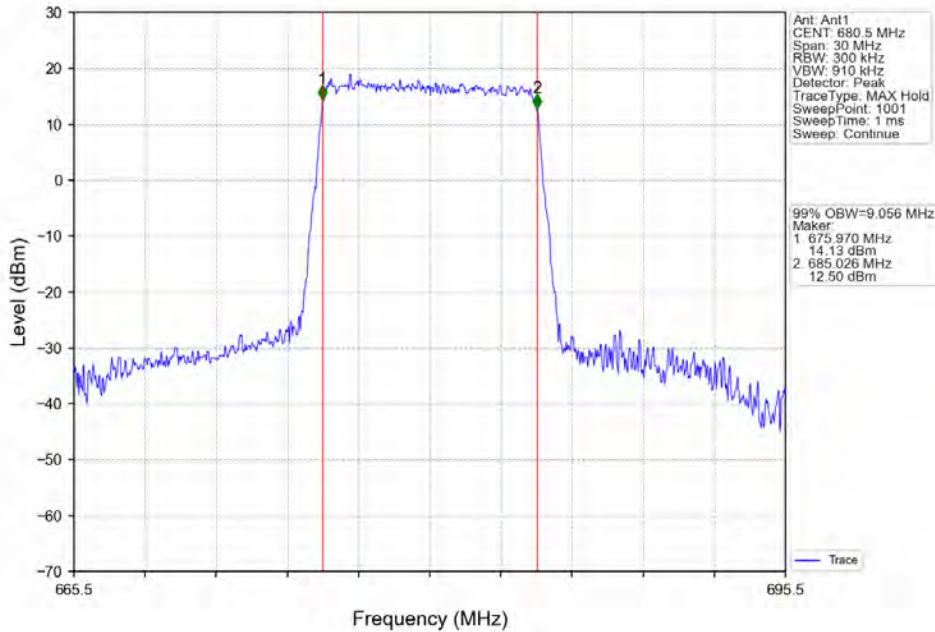


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Band71\_10MHz\_QPSK\_MCH\_680.5MHz\_RB\_50\_0\_NTNV



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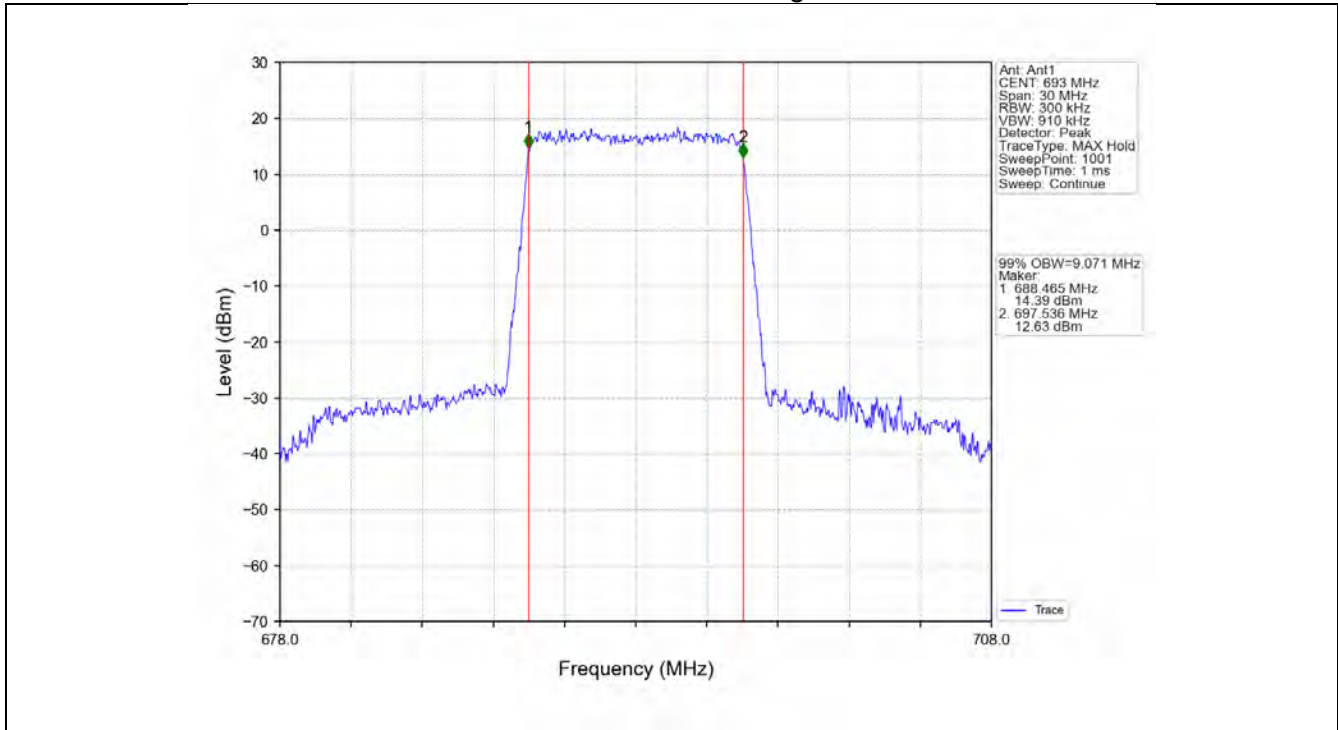
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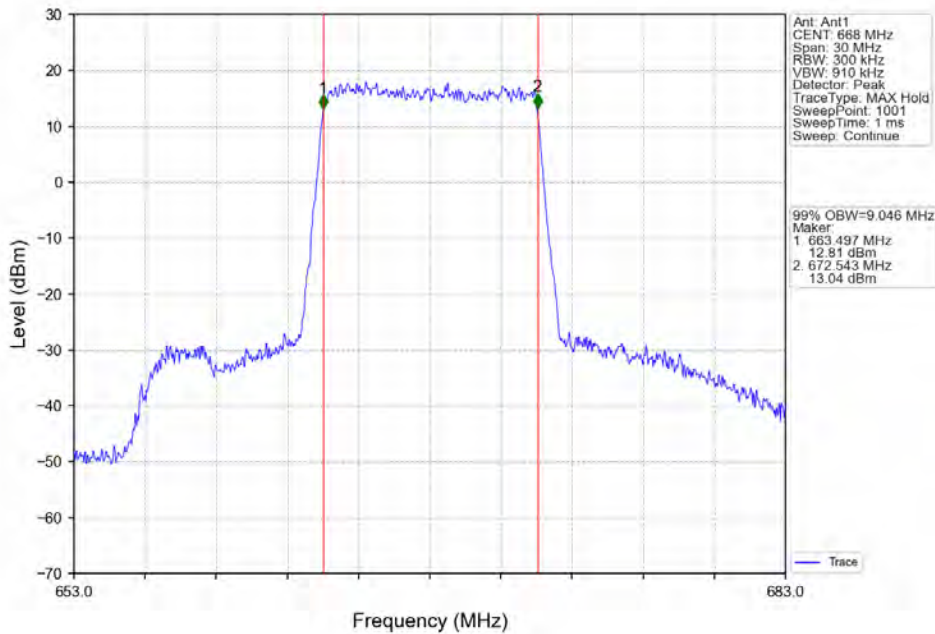


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Band71\_10MHz\_16QAM\_LCH\_668MHz\_RB\_50\_0\_NTNV



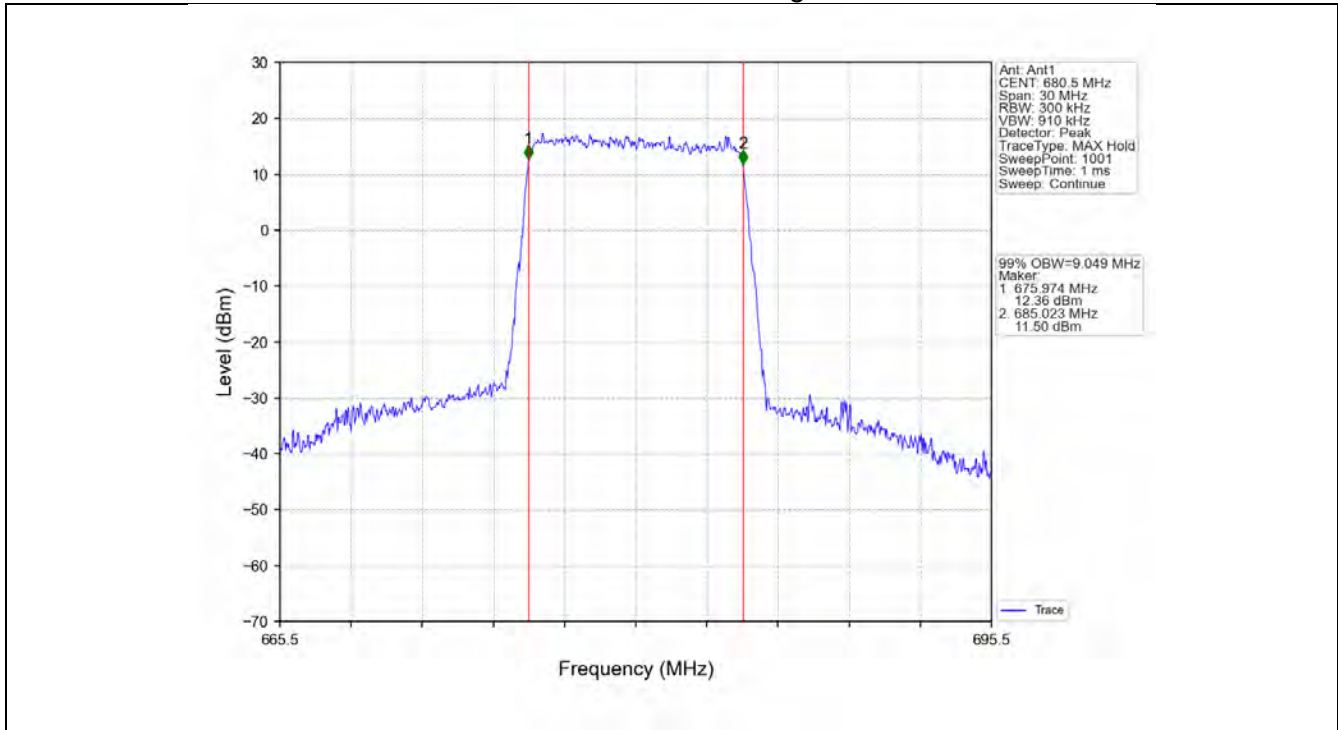
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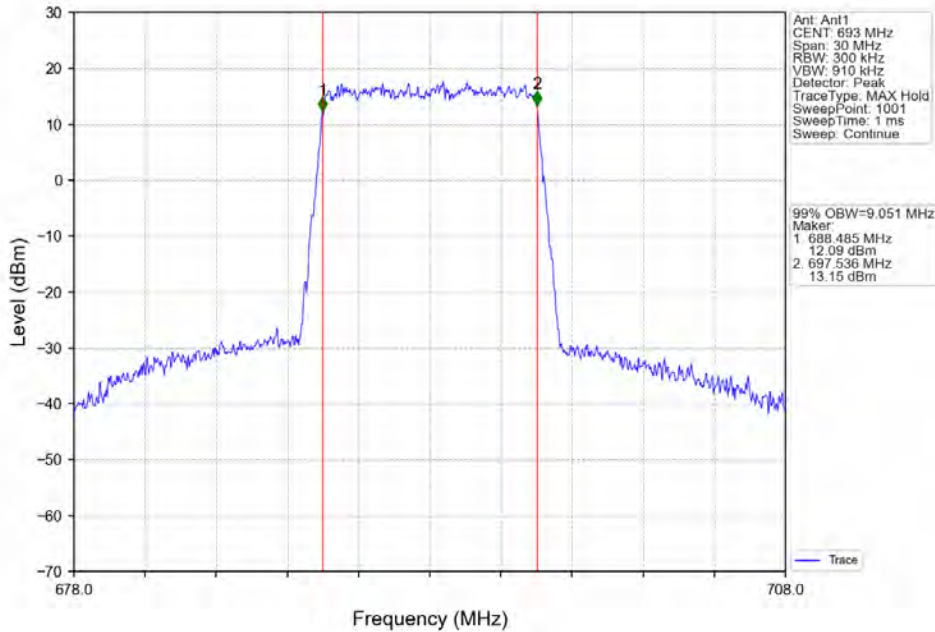


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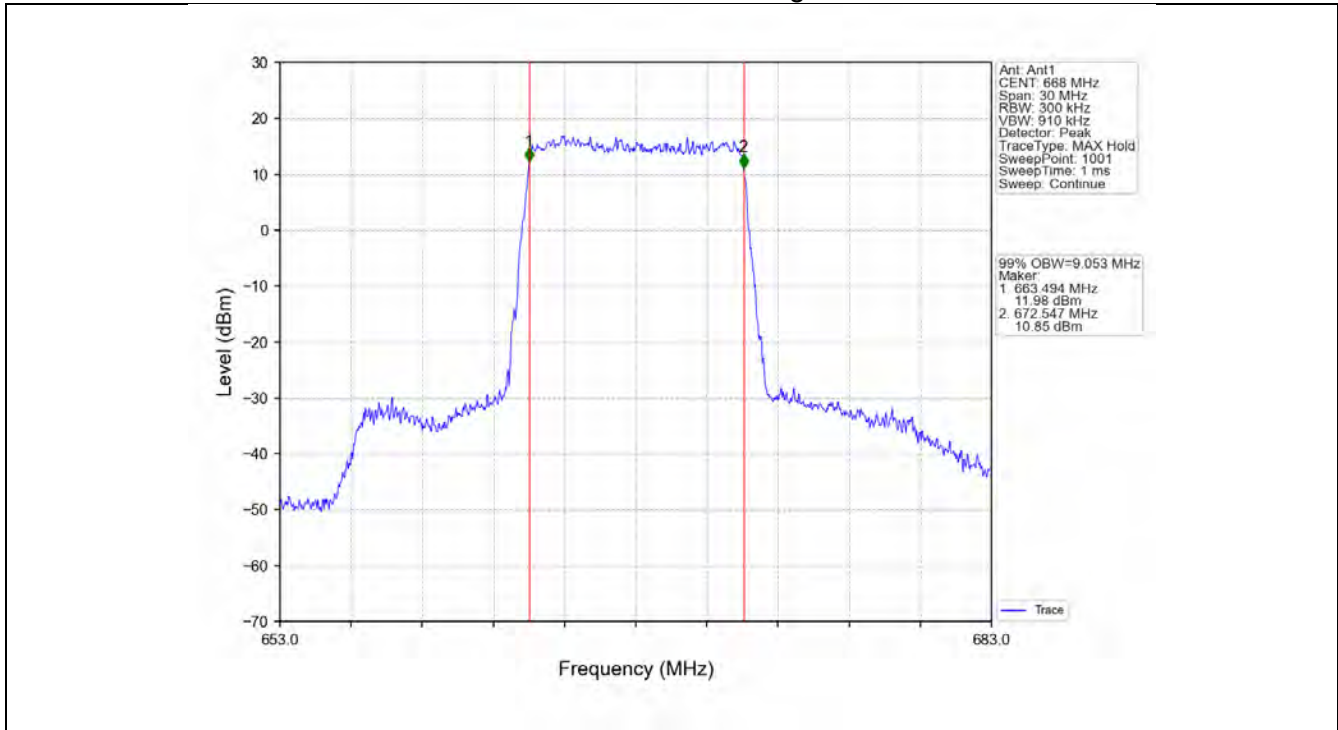
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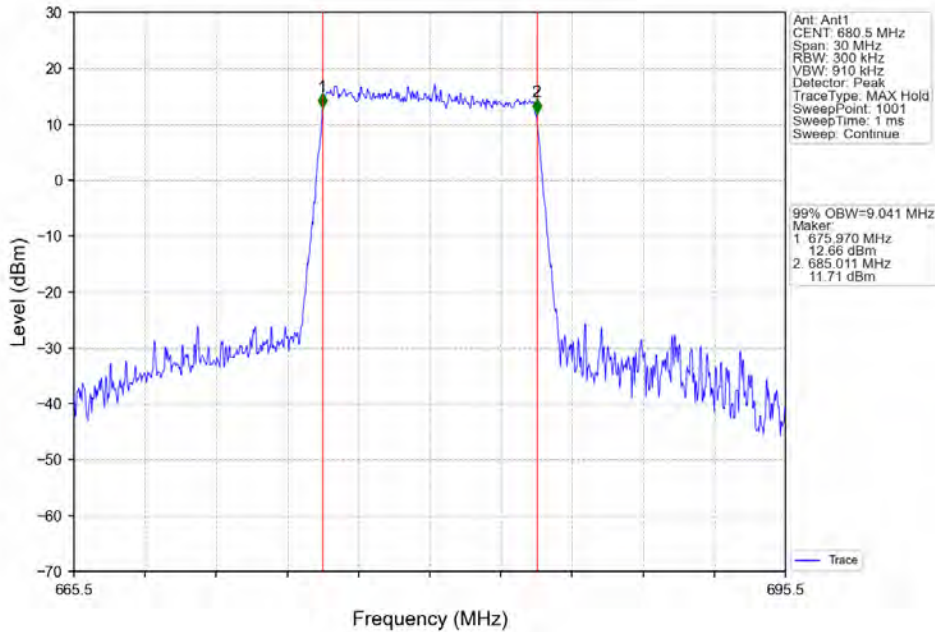


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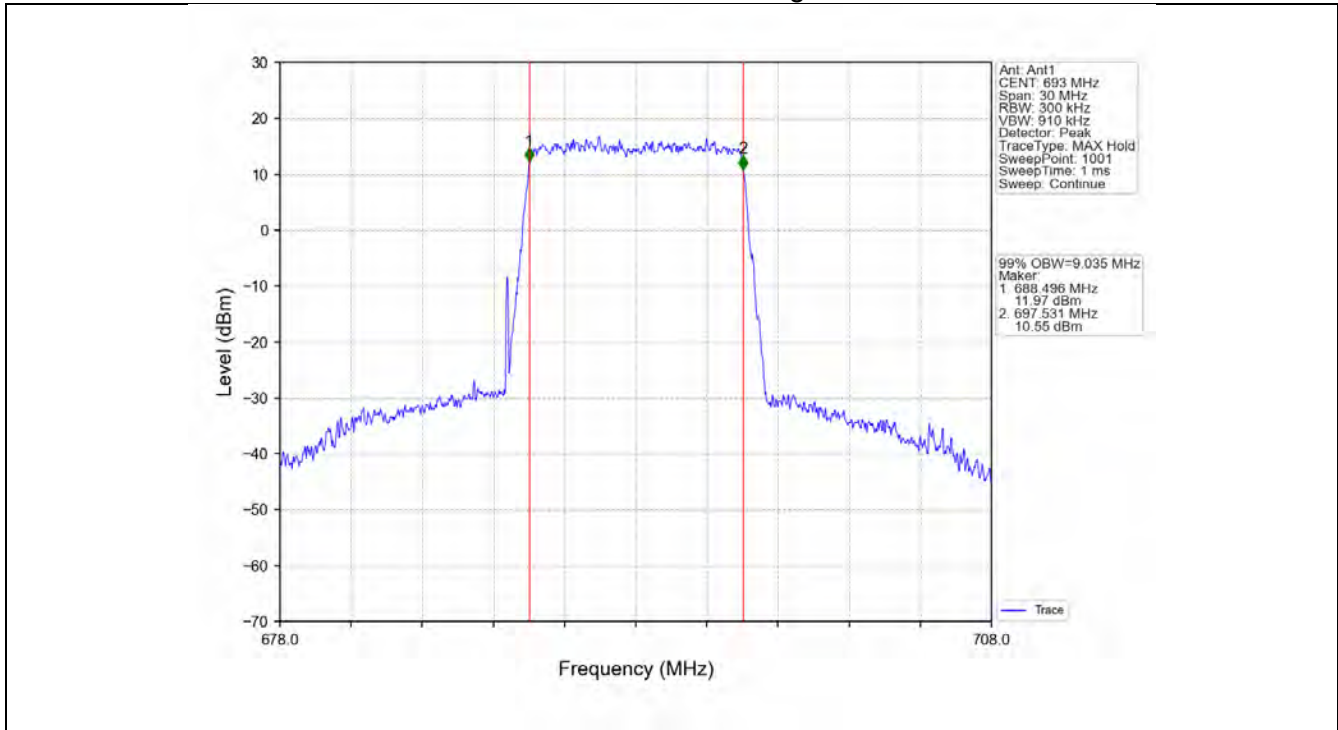
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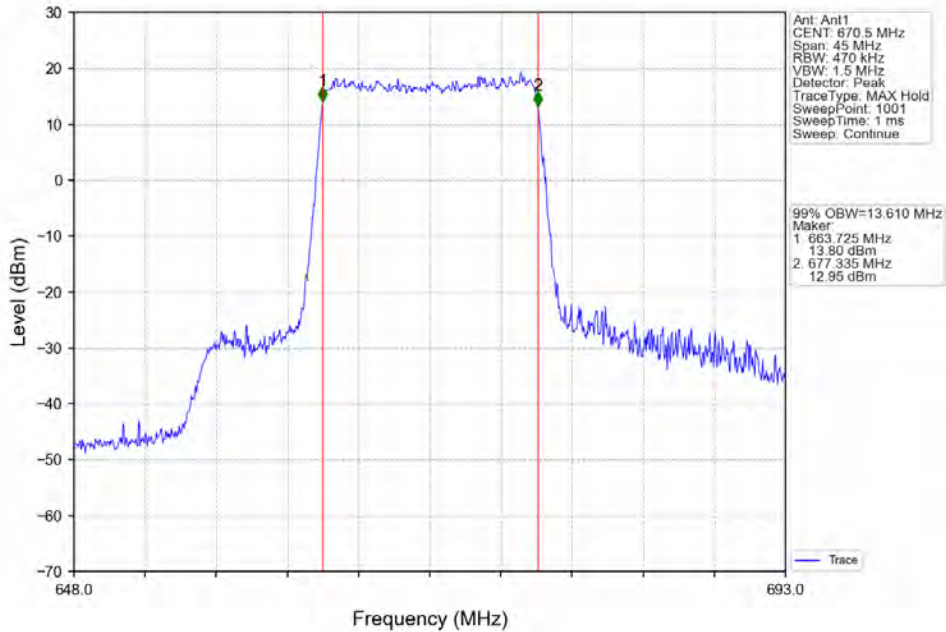


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Band71\_15MHz\_QPSK\_LCH\_670.5MHz\_RB\_75\_0\_NTNV



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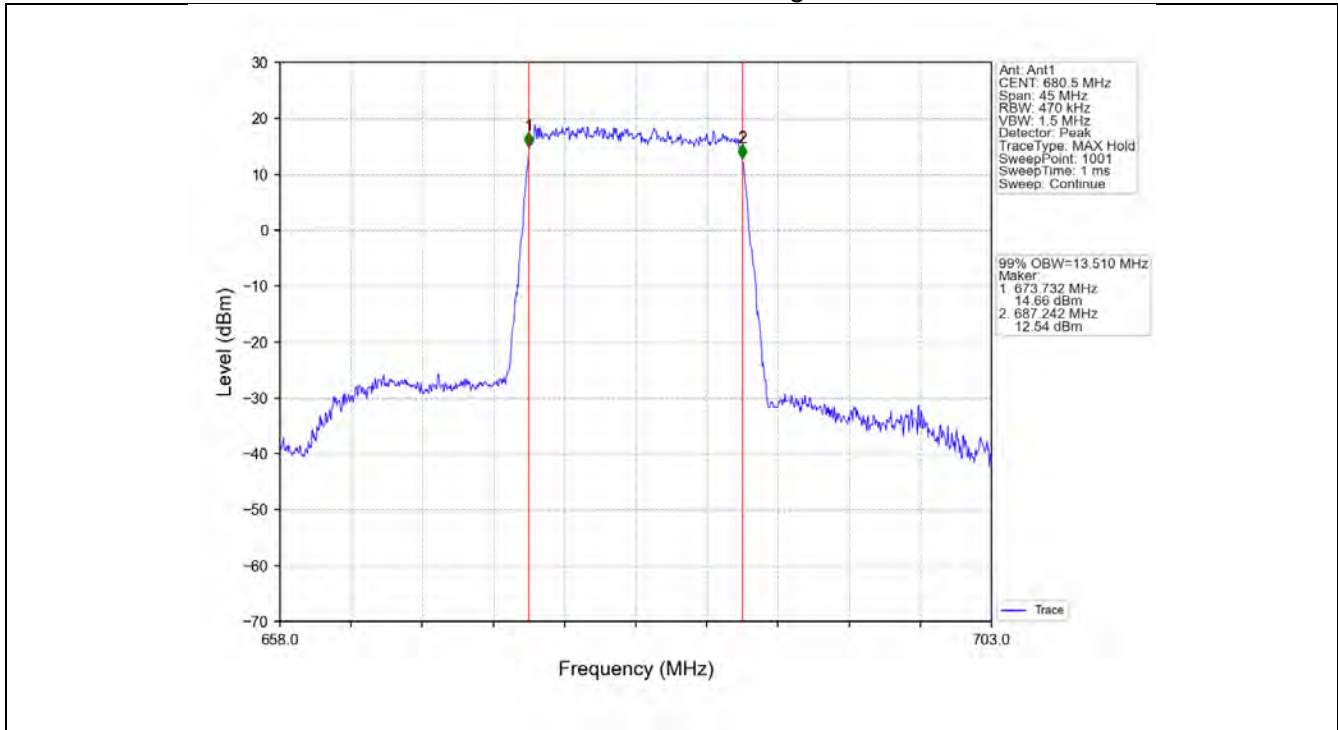
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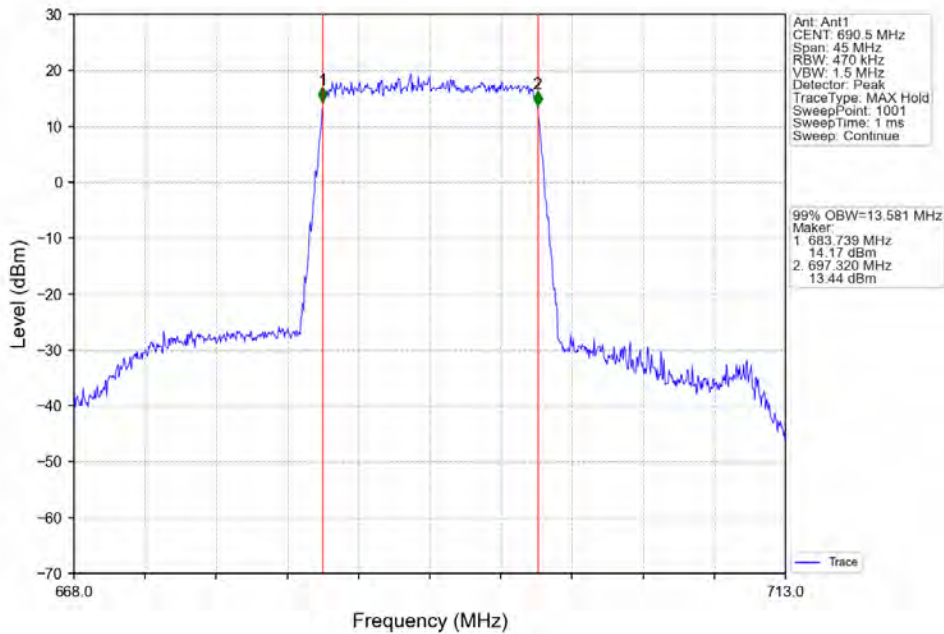


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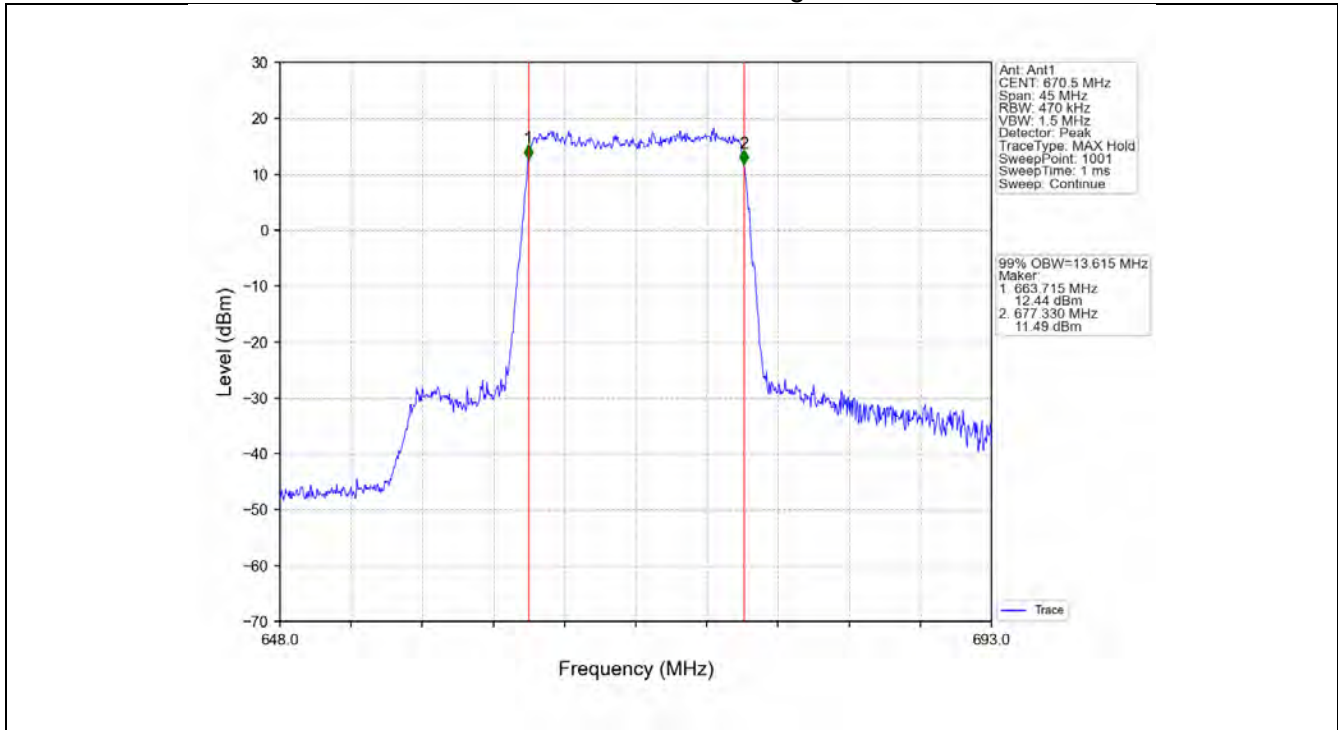
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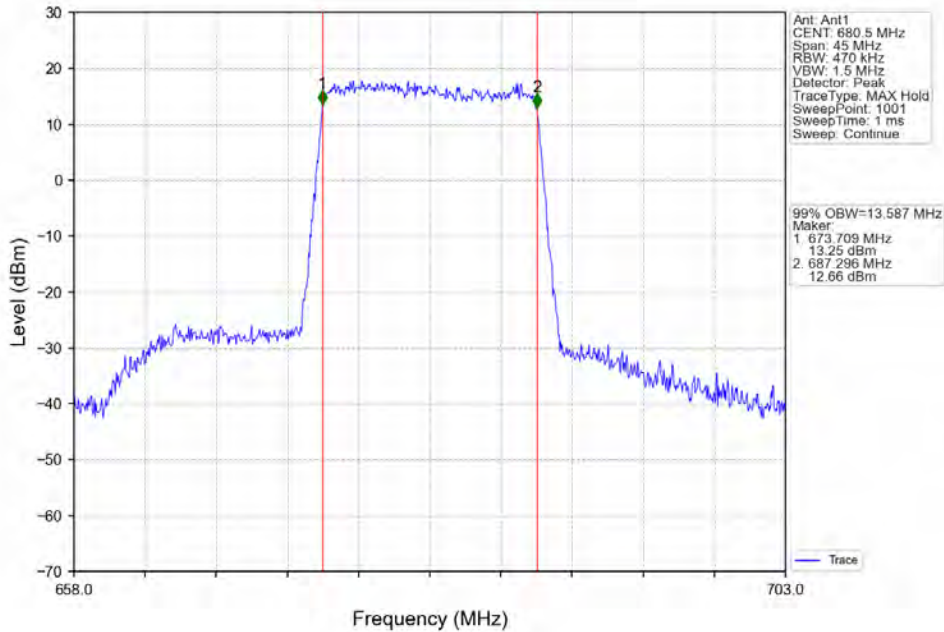


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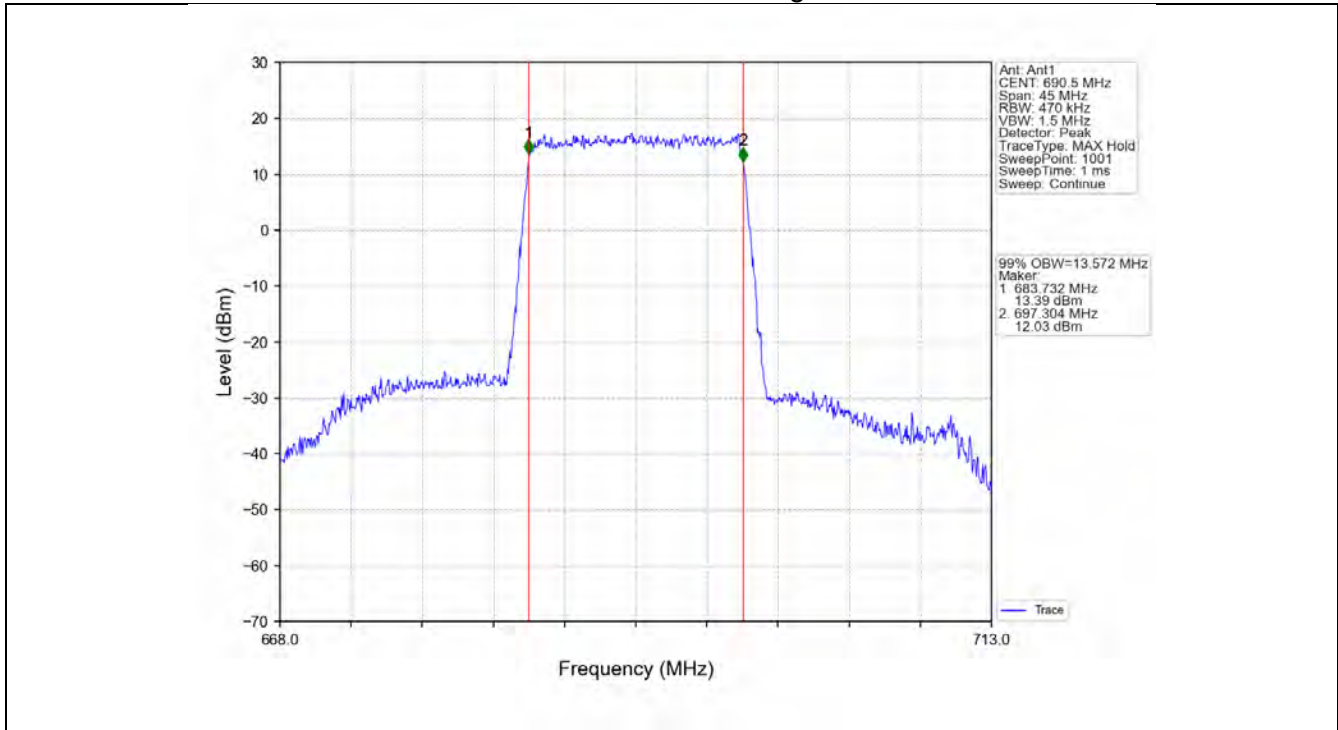
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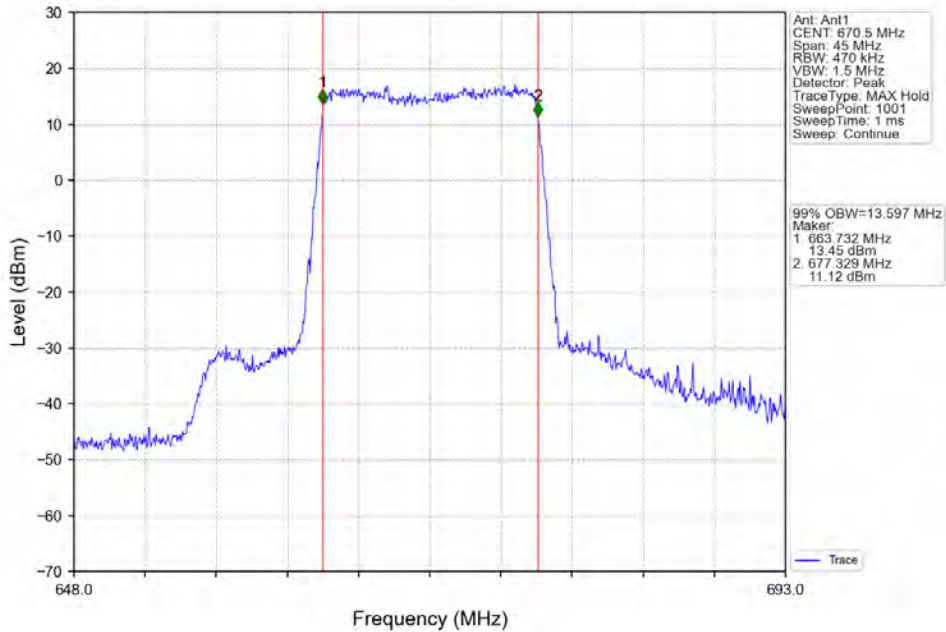


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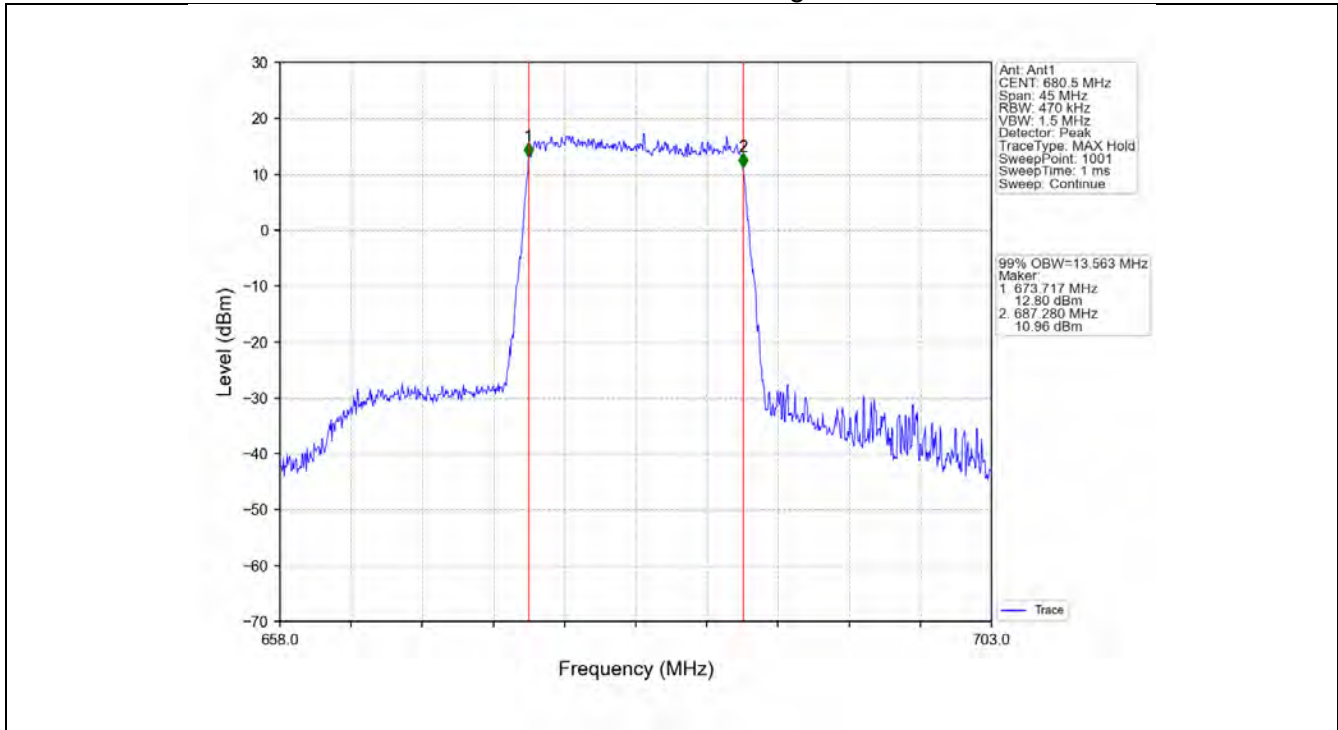
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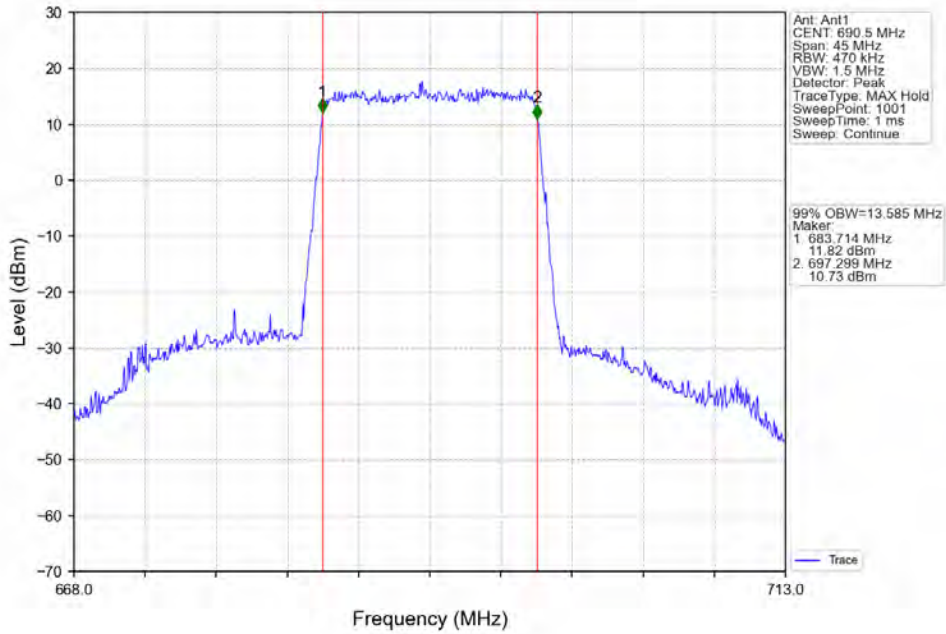


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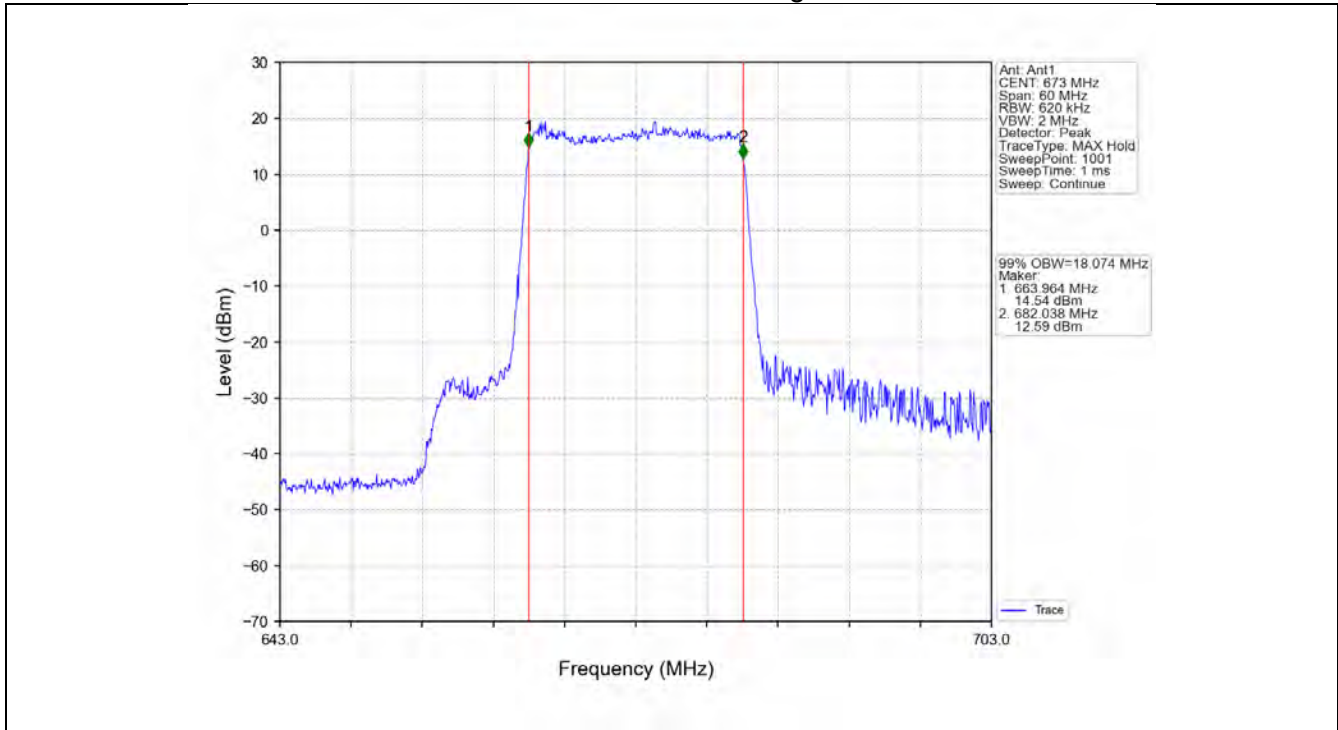
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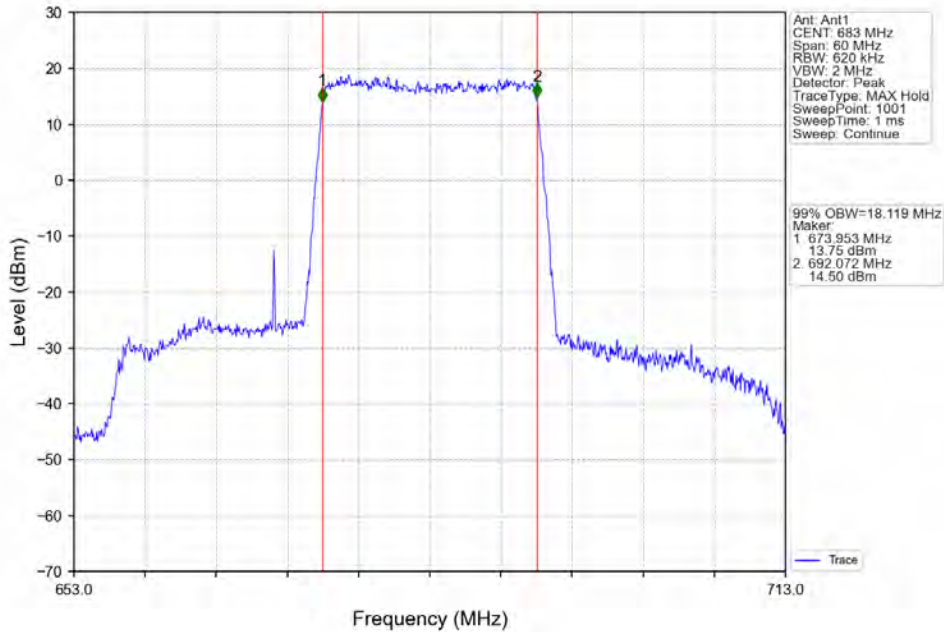


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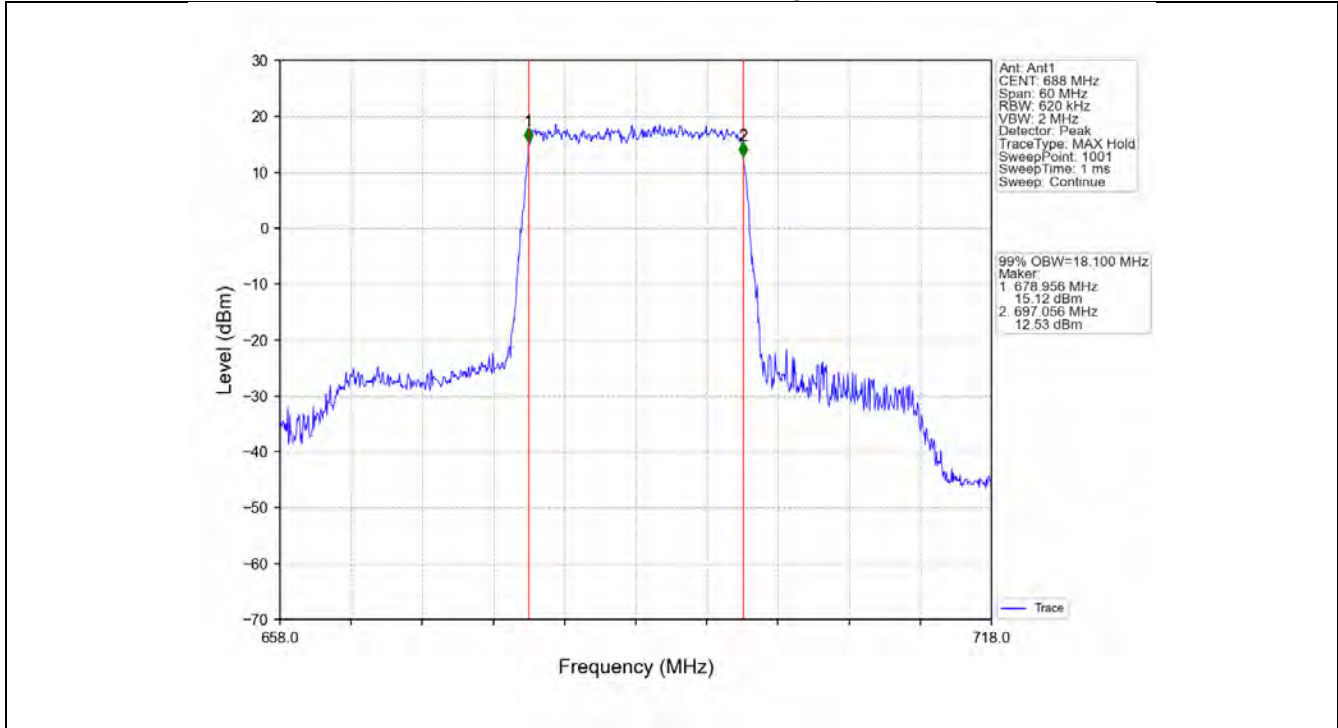


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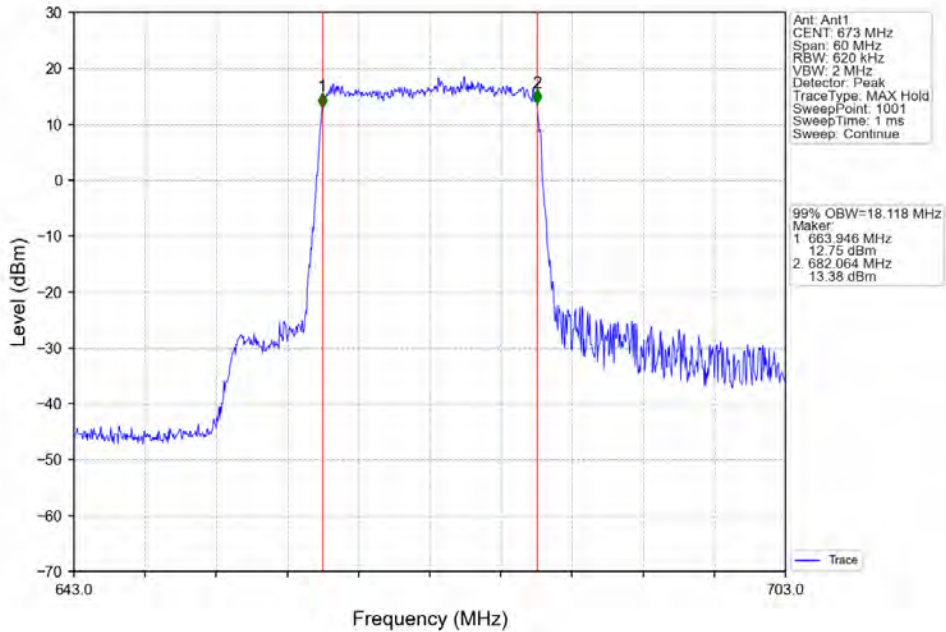


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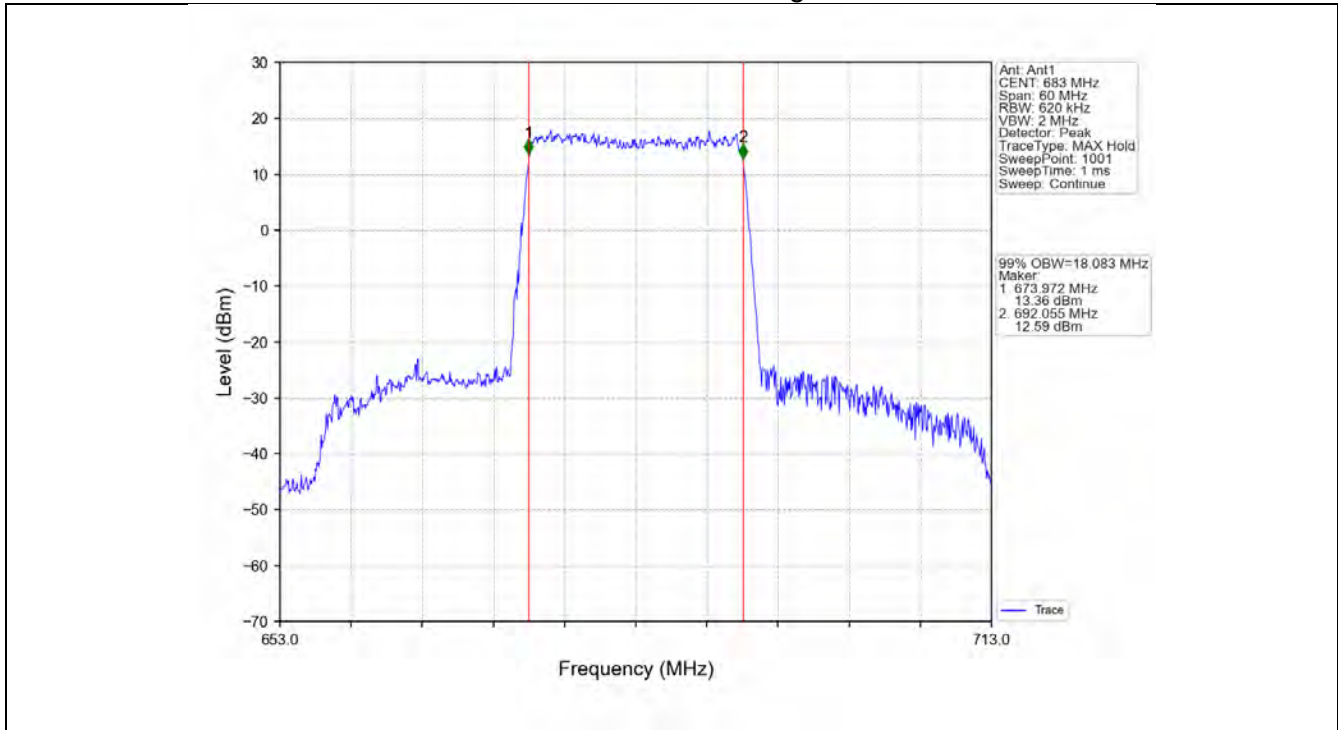
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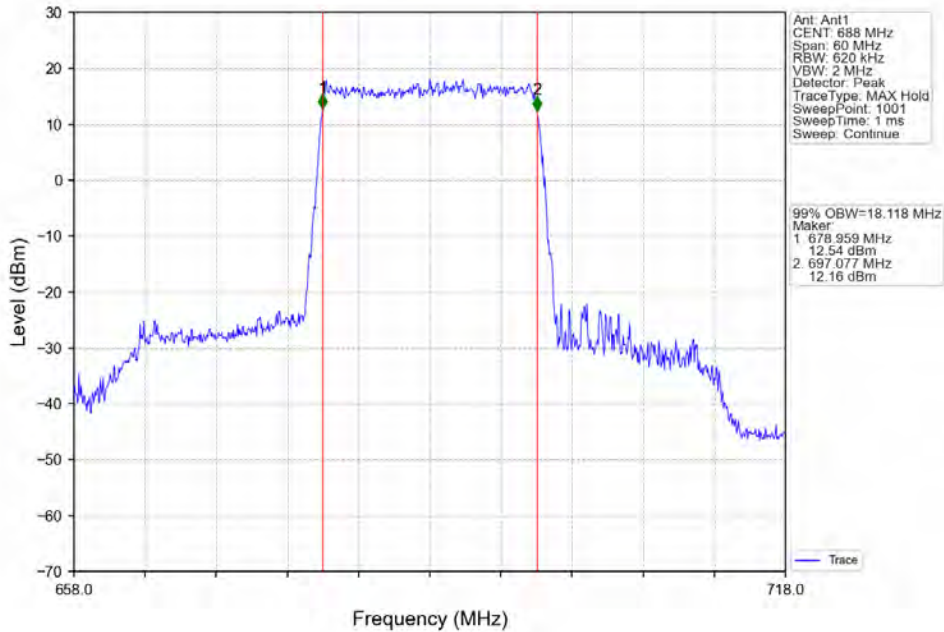


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Band71 20MHz\_16QAM\_HCH\_688MHz\_RB\_100\_0\_NTNV



Band71 20MHz\_64QAM\_LCH\_673MHz\_RB\_100\_0\_NTNV

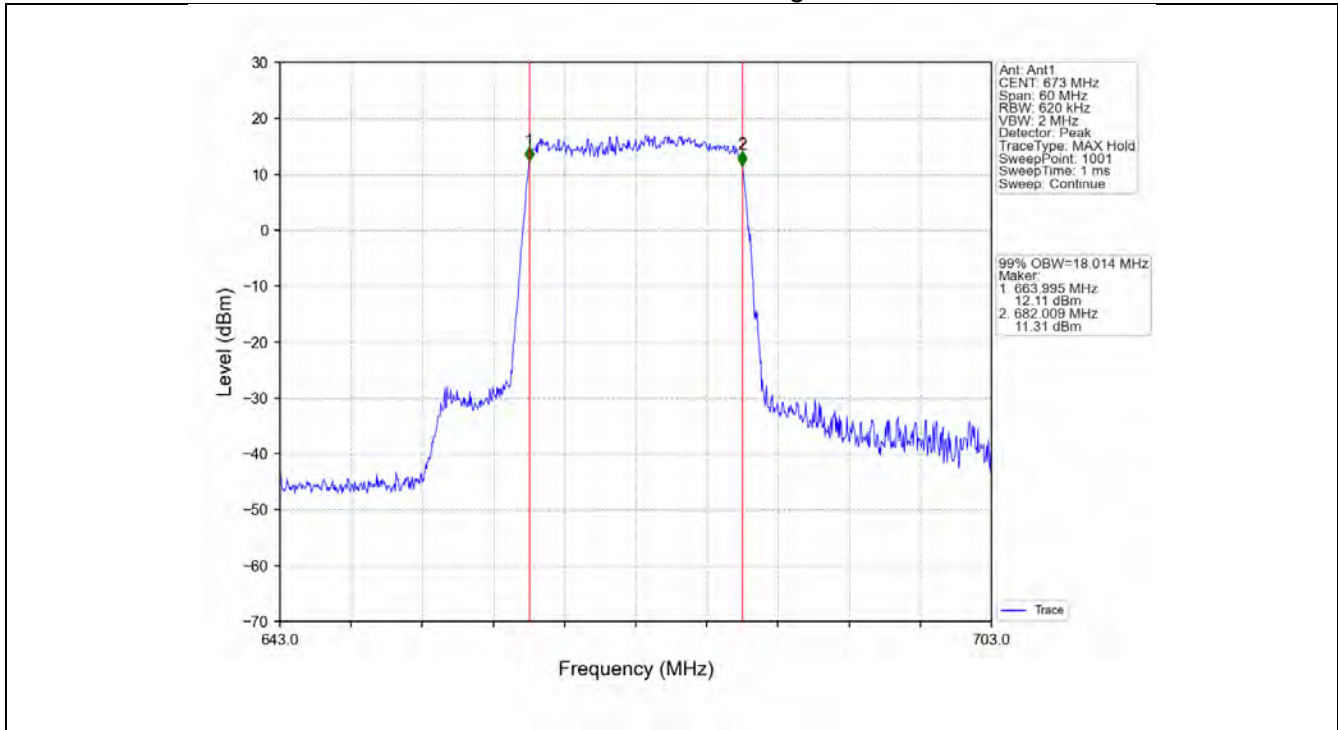


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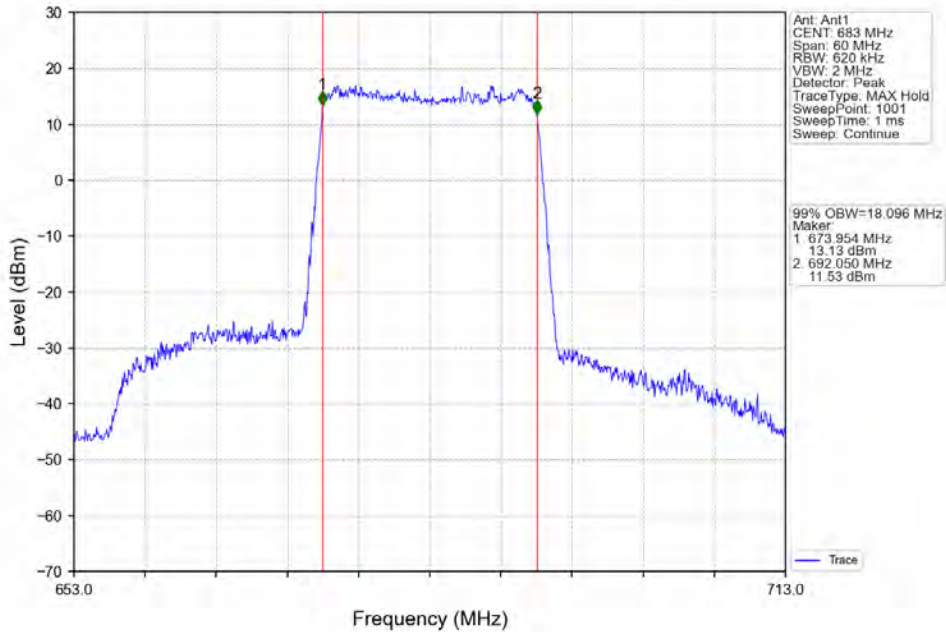


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Band71\_20MHz\_64QAM\_MCH\_683MHz\_RB\_100\_0\_NTNV



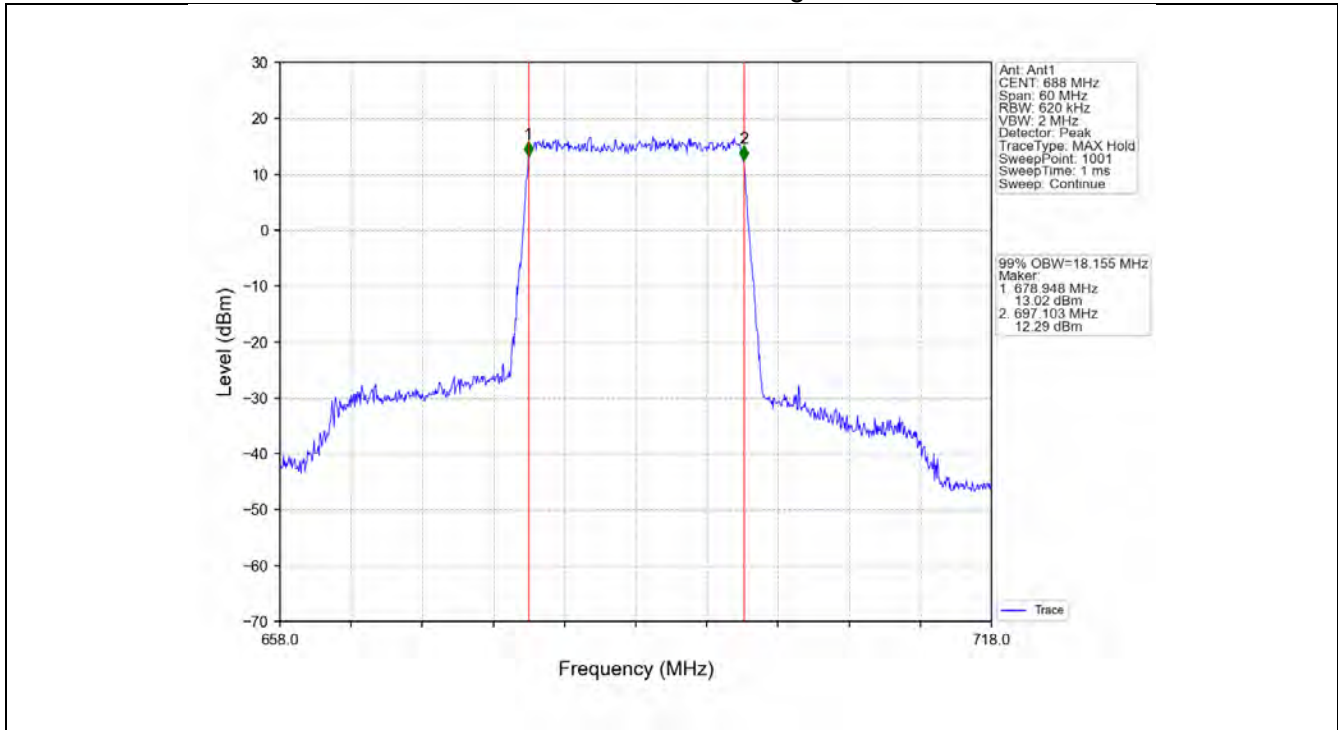
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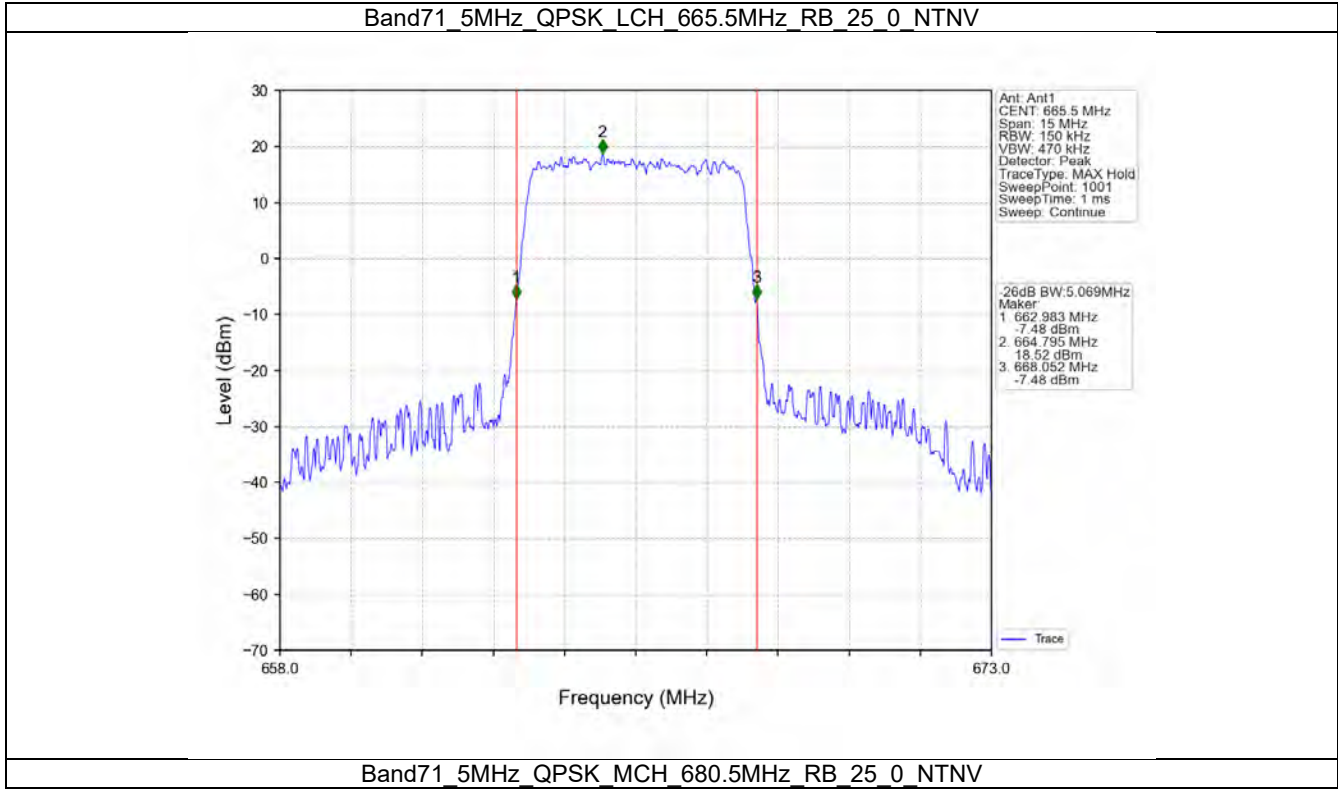
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3.2 Band71\_XDB

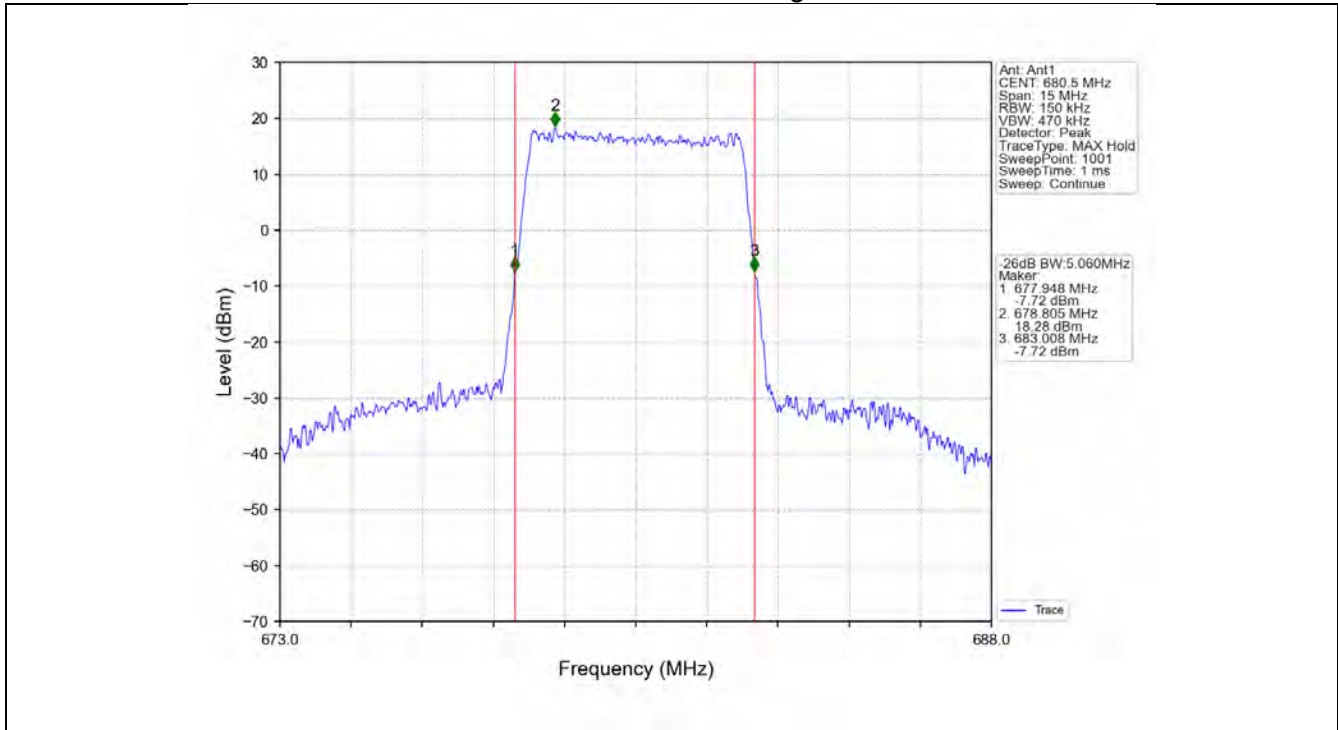
3.2.2 Test Graph



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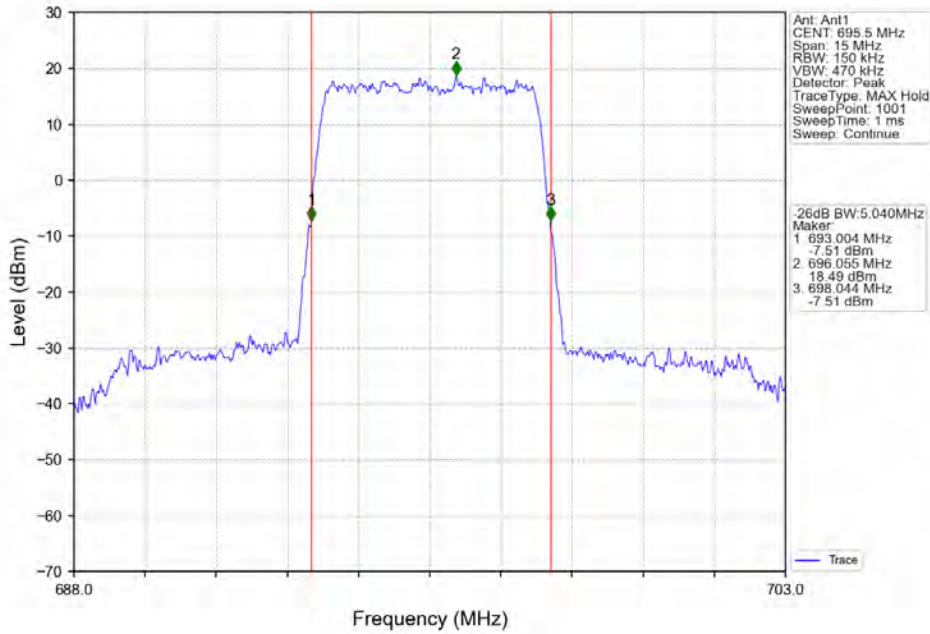


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Band71\_5MHz\_QPSK\_HCH\_695.5MHz\_RB\_25\_0\_NTNV



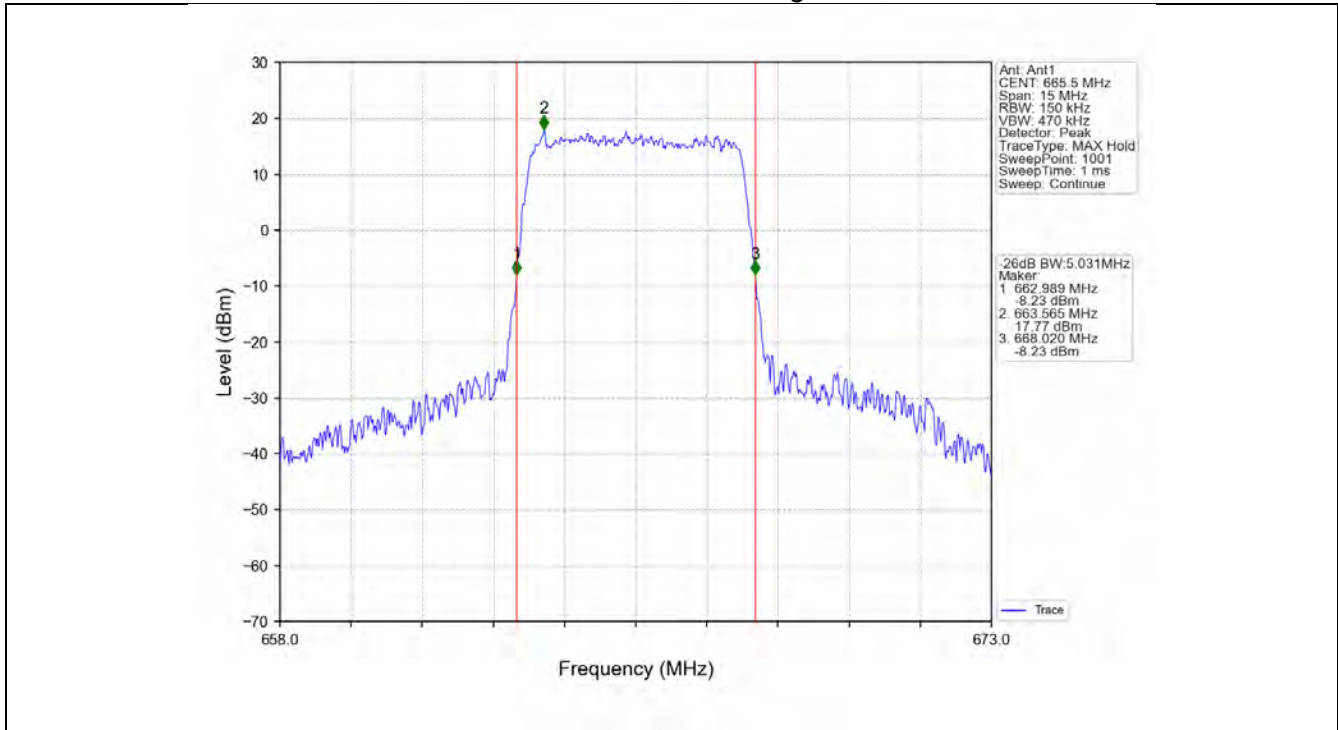
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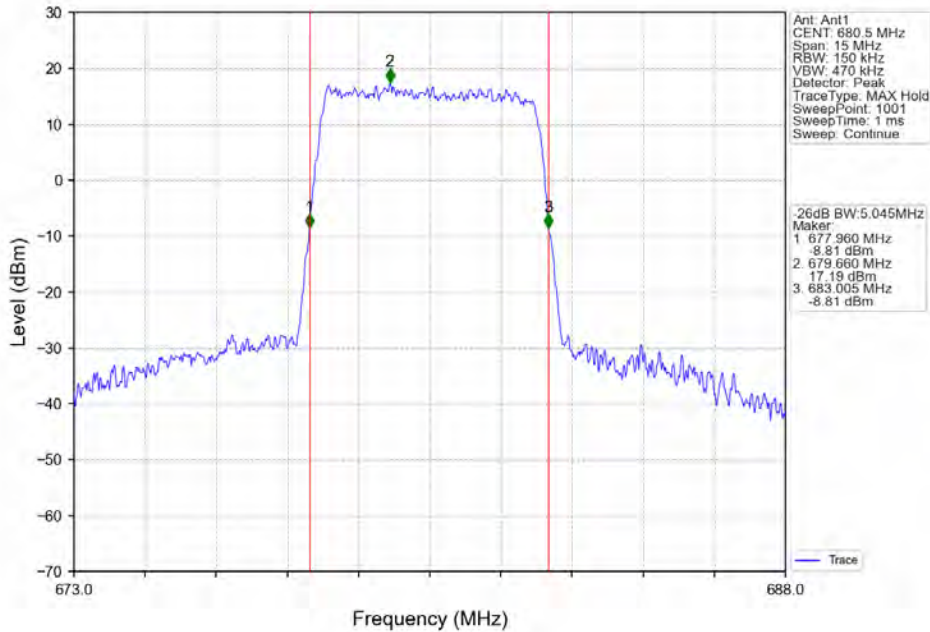


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Band71 5MHz 16QAM MCH 680.5MHz\_RB\_25\_0\_NTNV



Band71 5MHz 16QAM HCH 695.5MHz\_RB\_25\_0\_NTNV

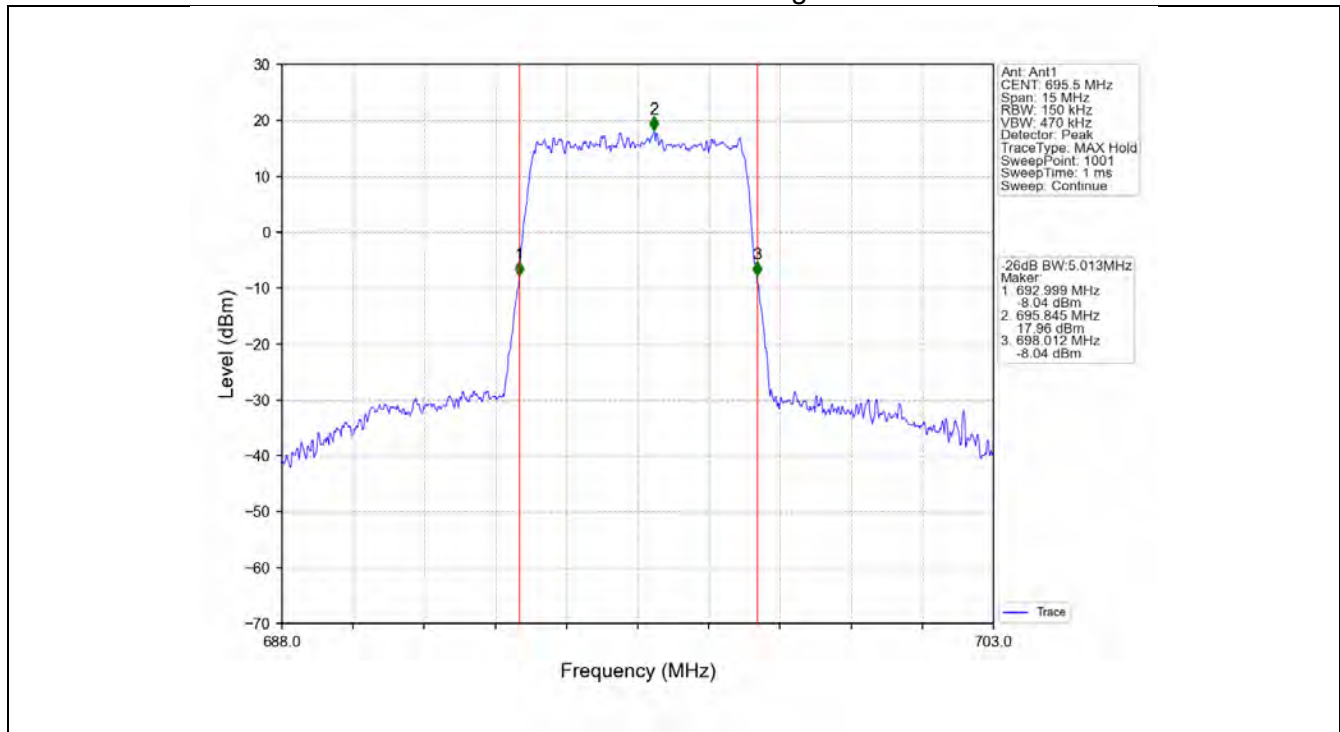


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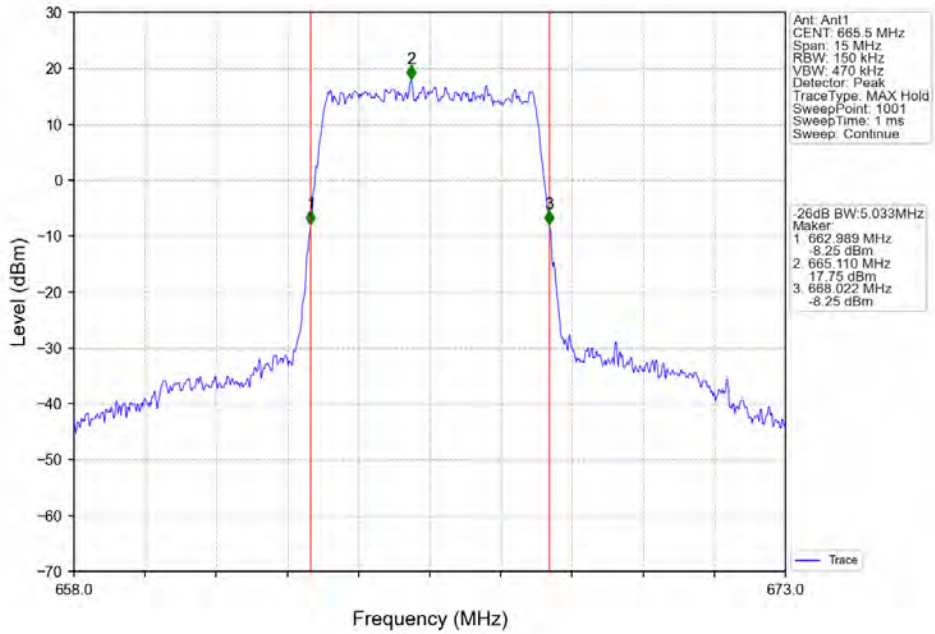


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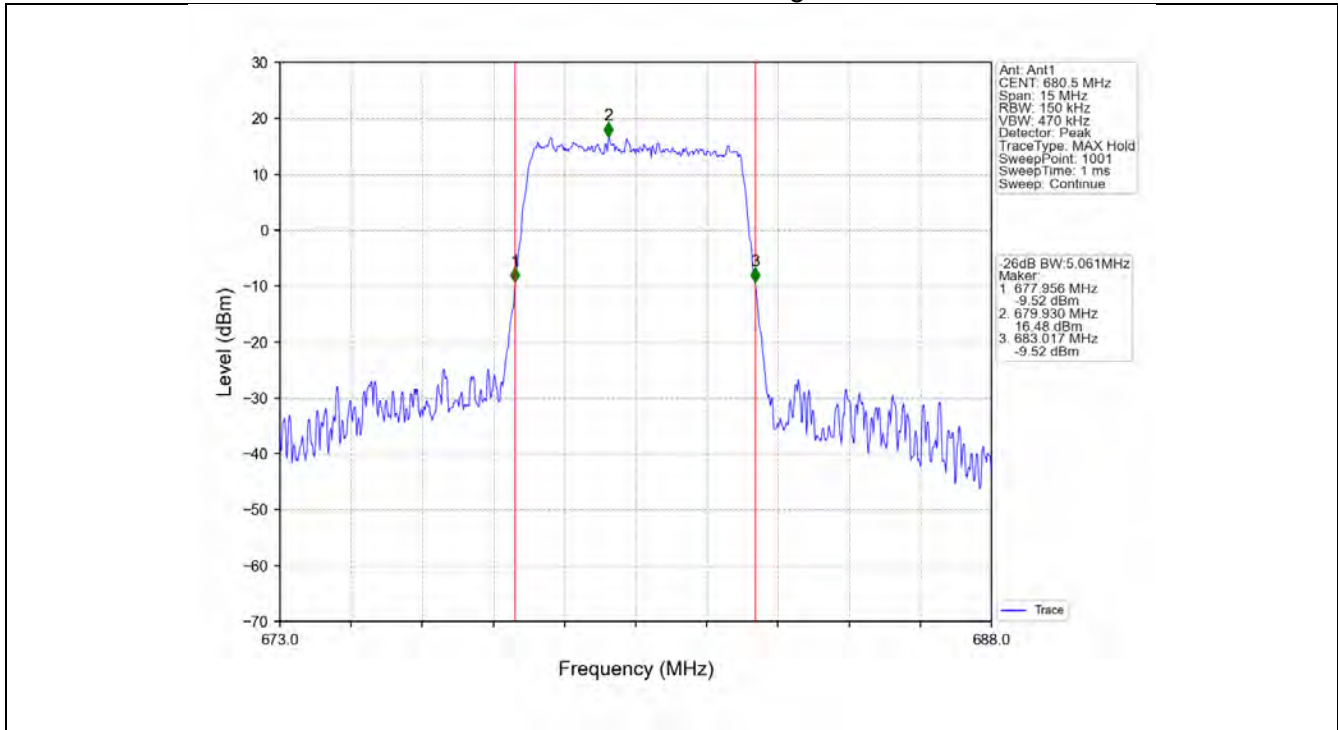
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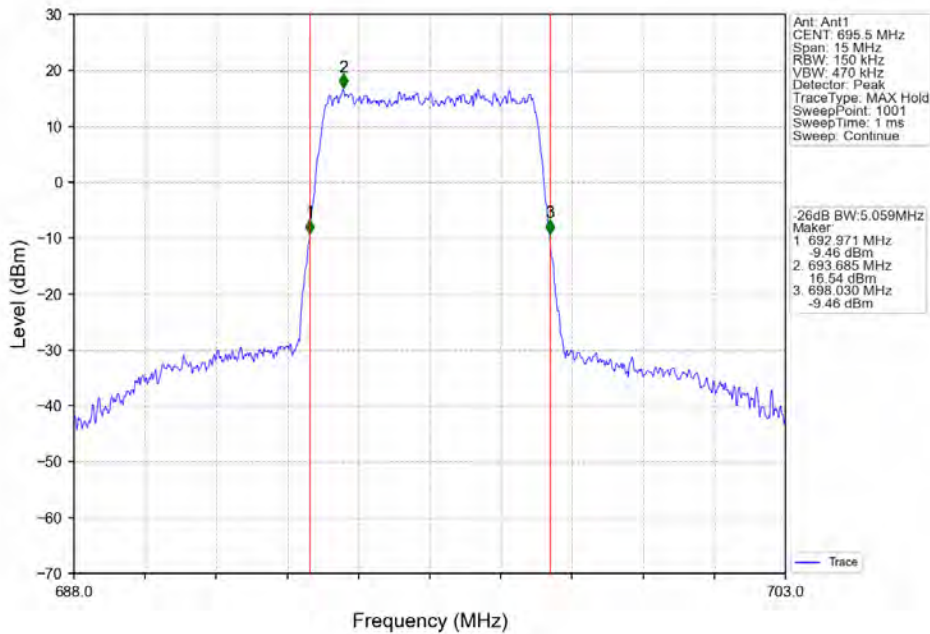


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Band71\_5MHz\_64QAM\_HCH\_695.5MHz\_RB\_25\_0\_NTNV



Band71\_10MHz\_QPSK\_LCH\_668MHz\_RB\_50\_0\_NTNV

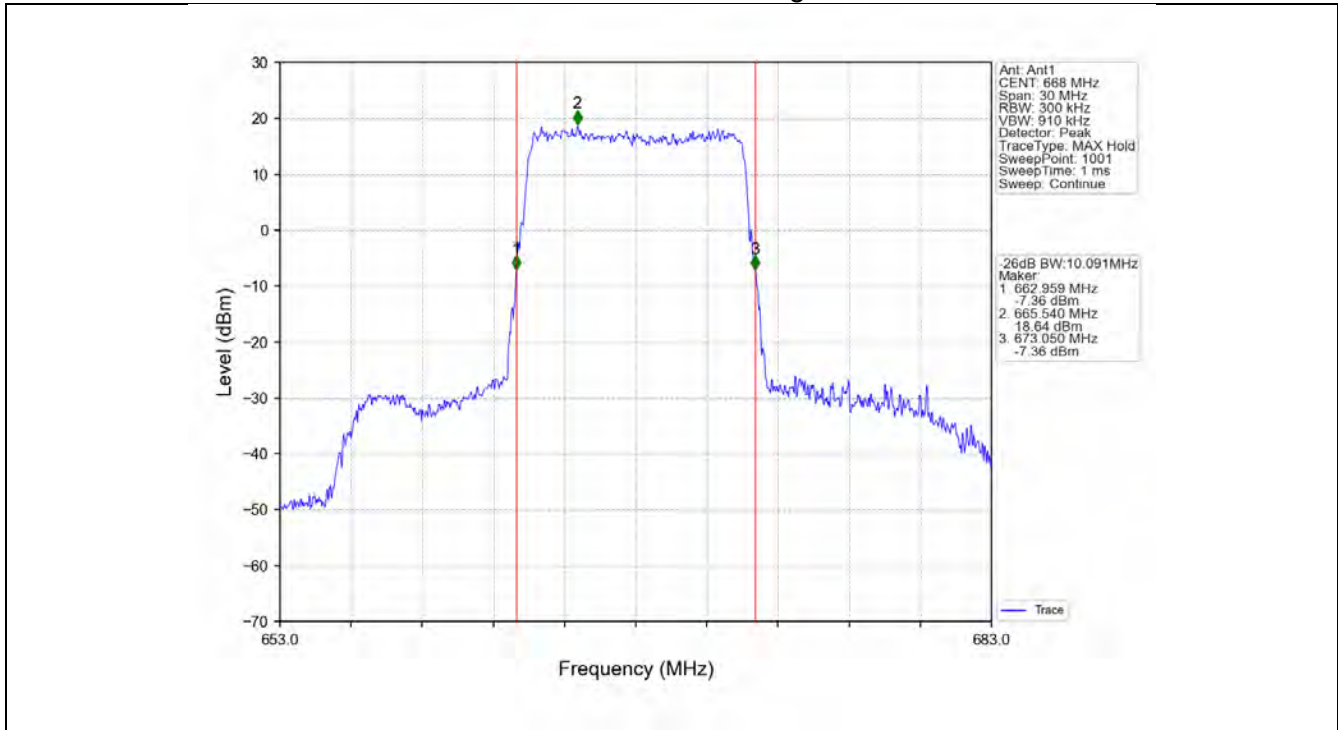


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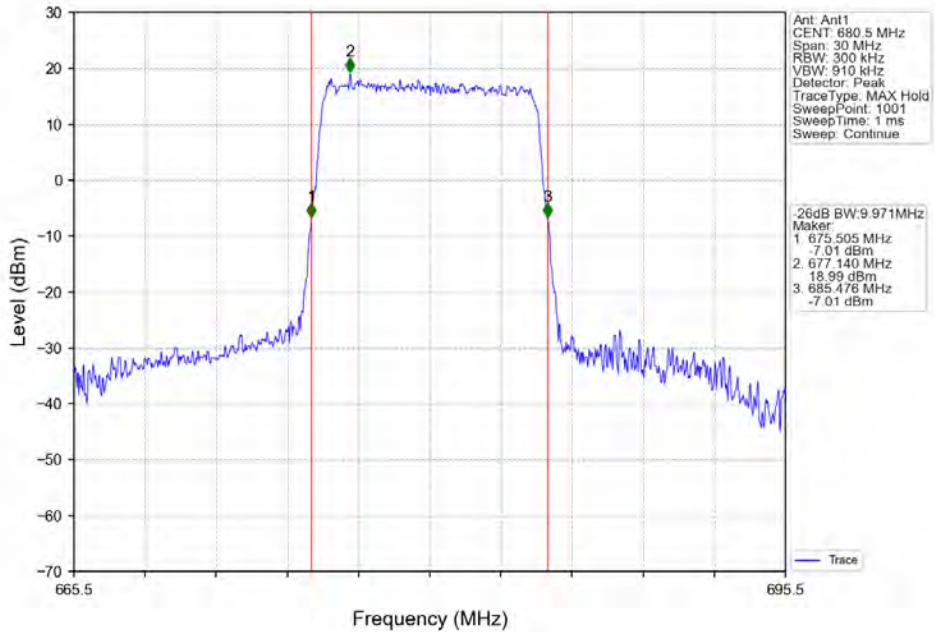


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Band71\_10MHz\_QPSK\_MCH\_680.5MHz\_RB\_50\_0\_NTNV



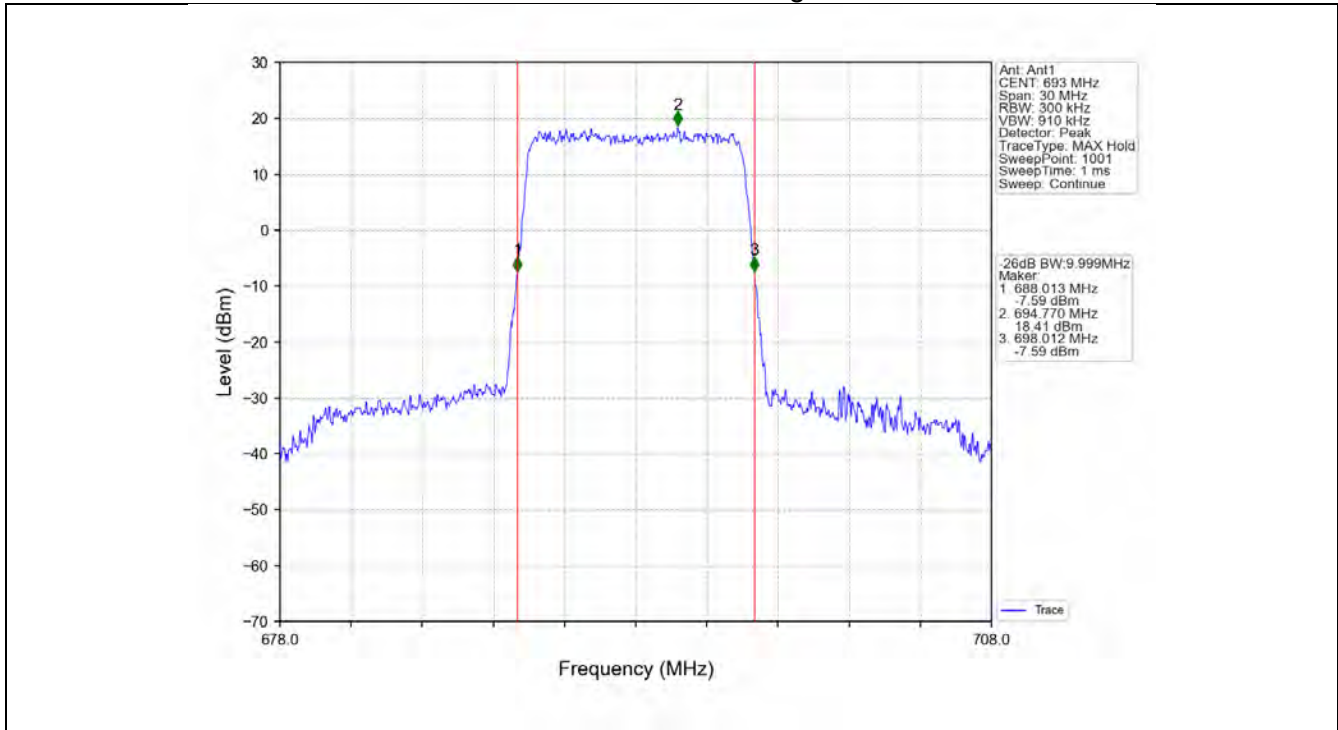
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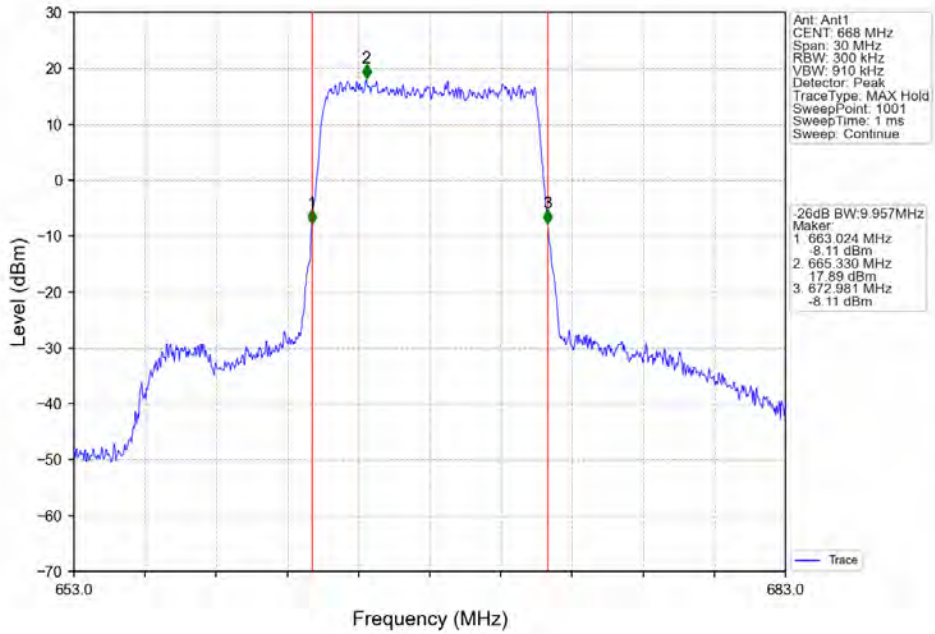


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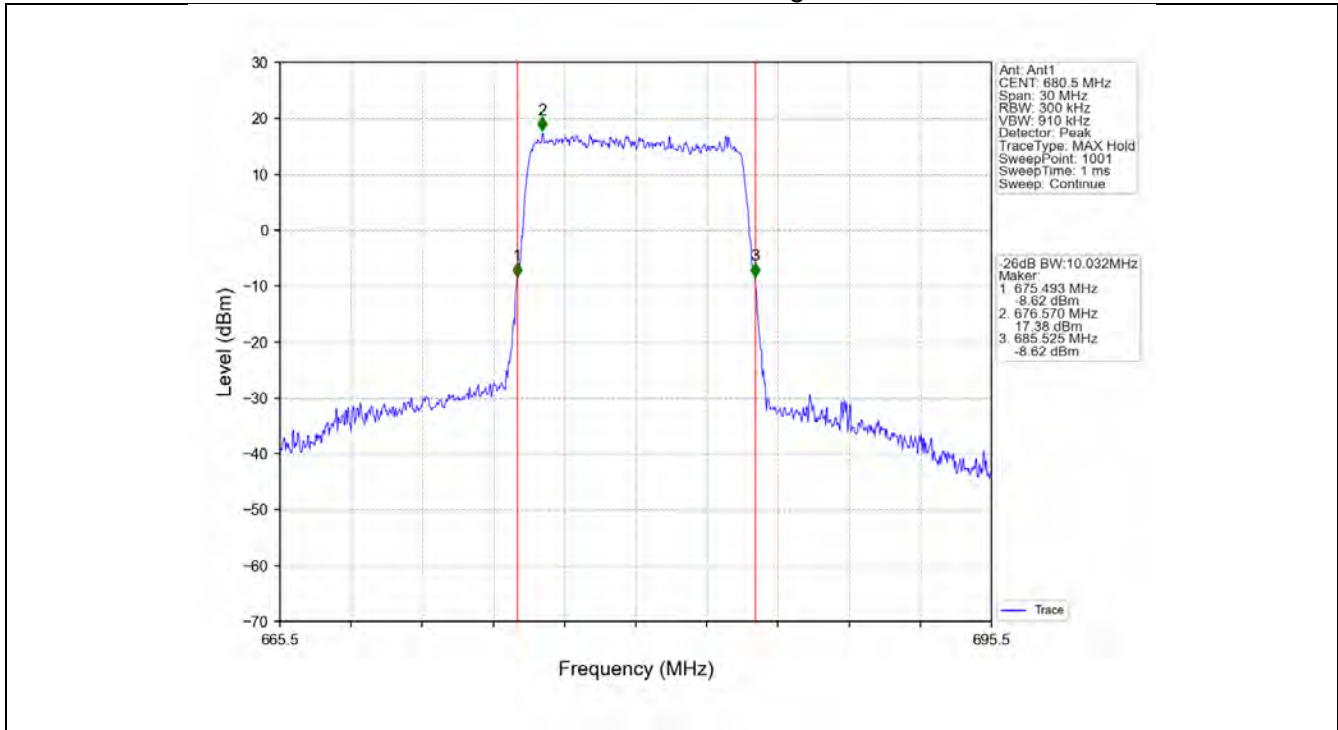
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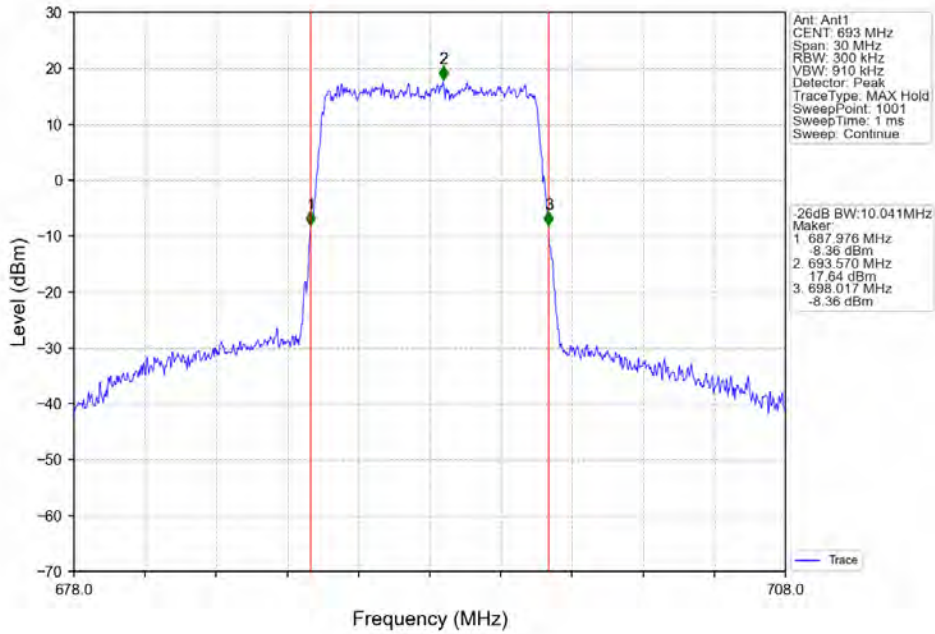


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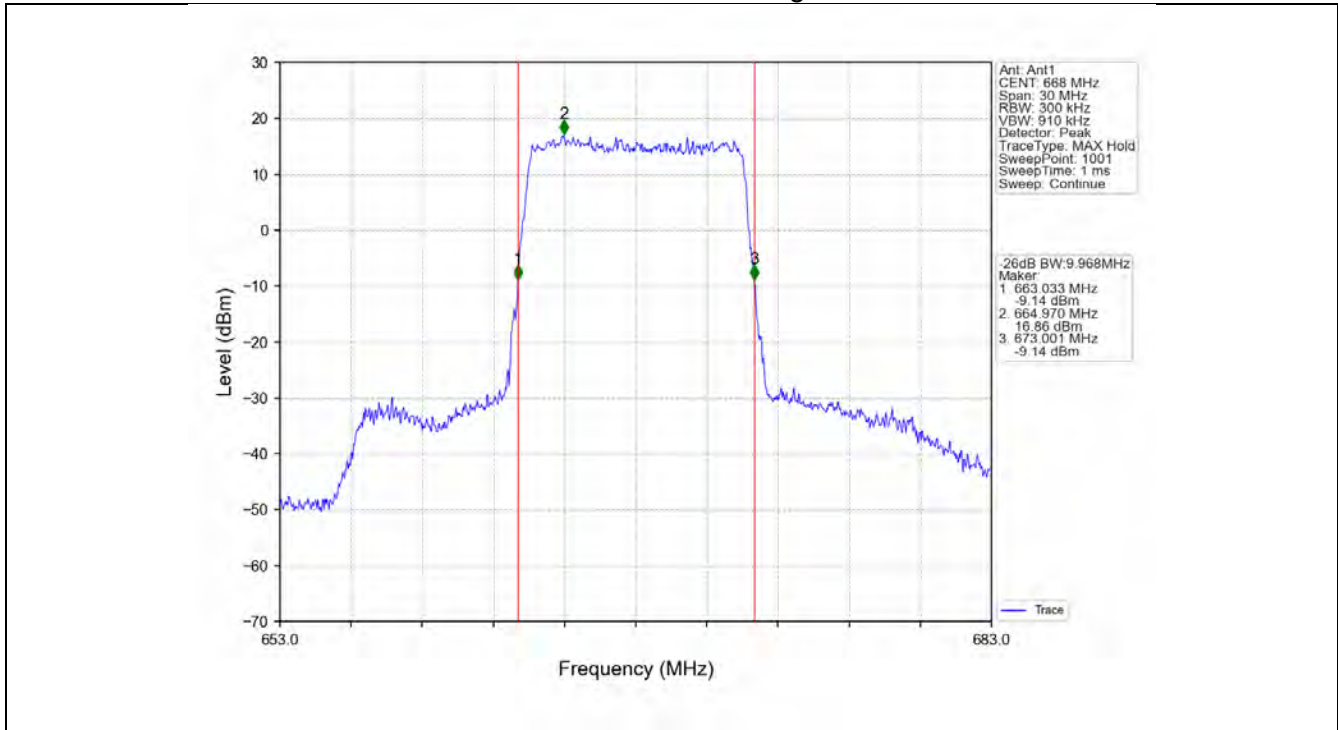
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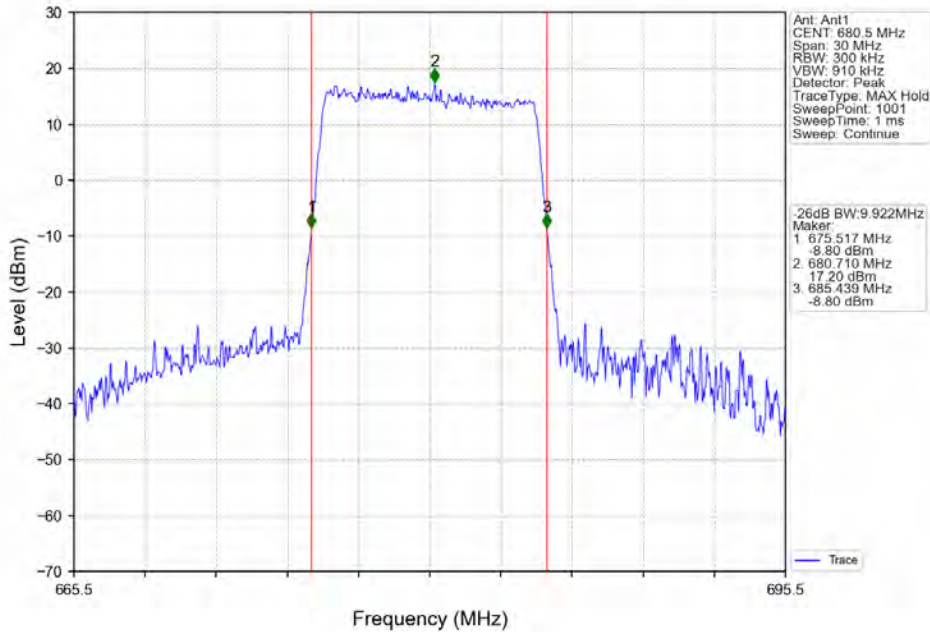


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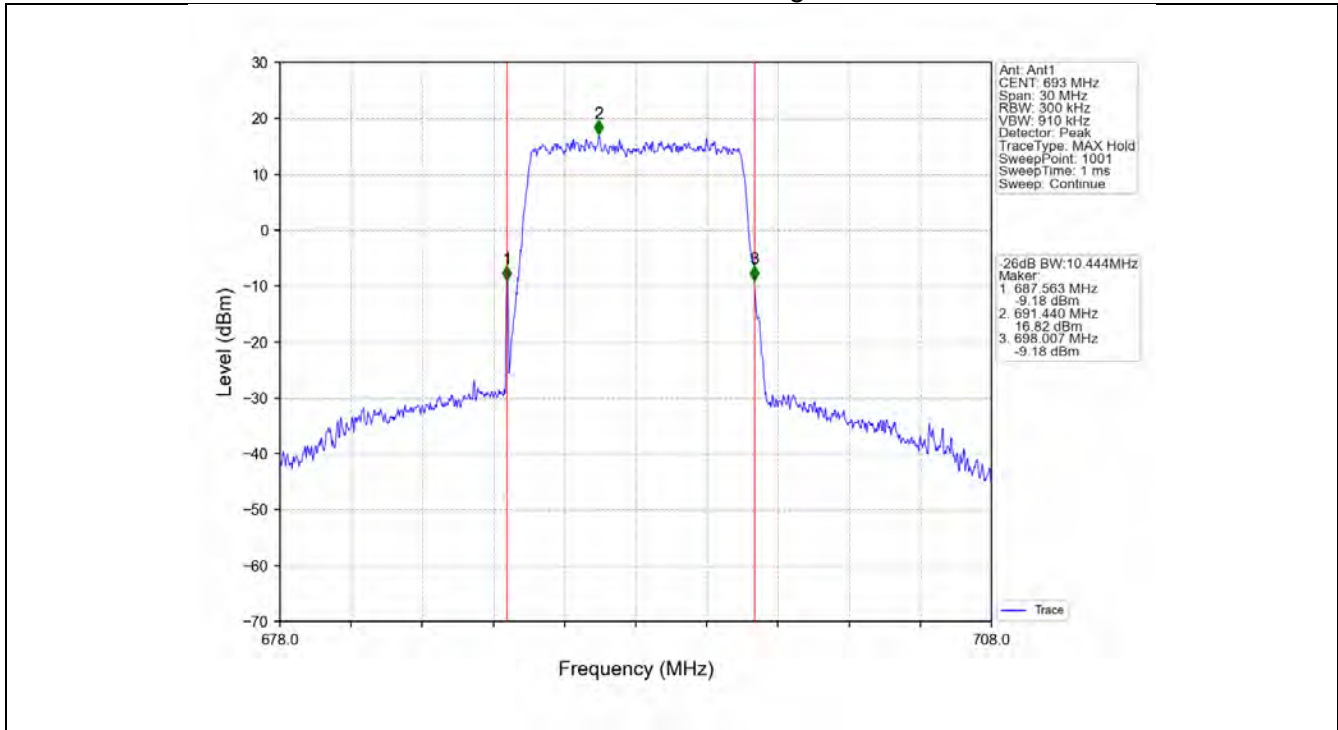


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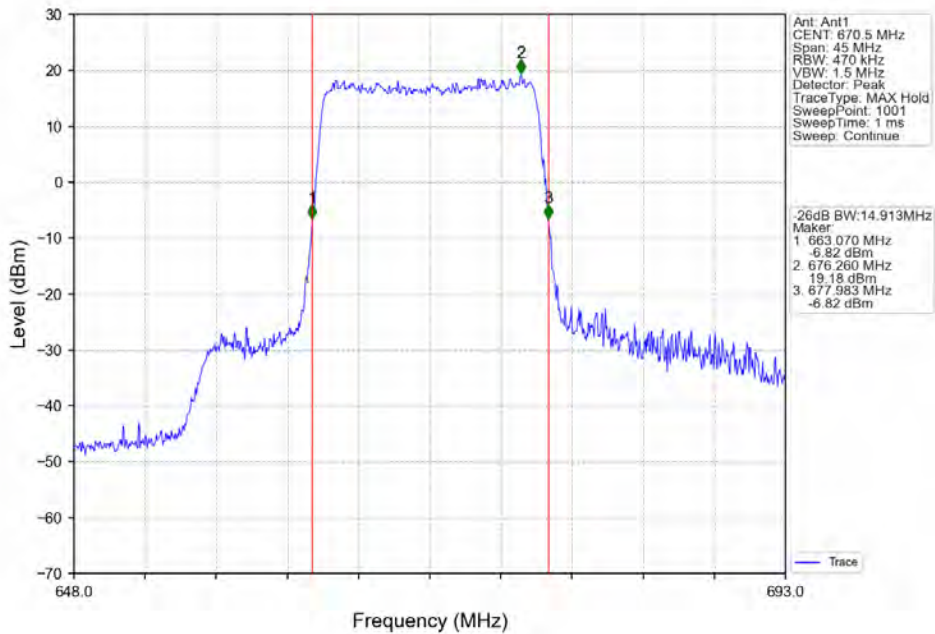


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Band71\_15MHz\_QPSK\_LCH\_670.5MHz\_RB\_75\_0\_NTNV



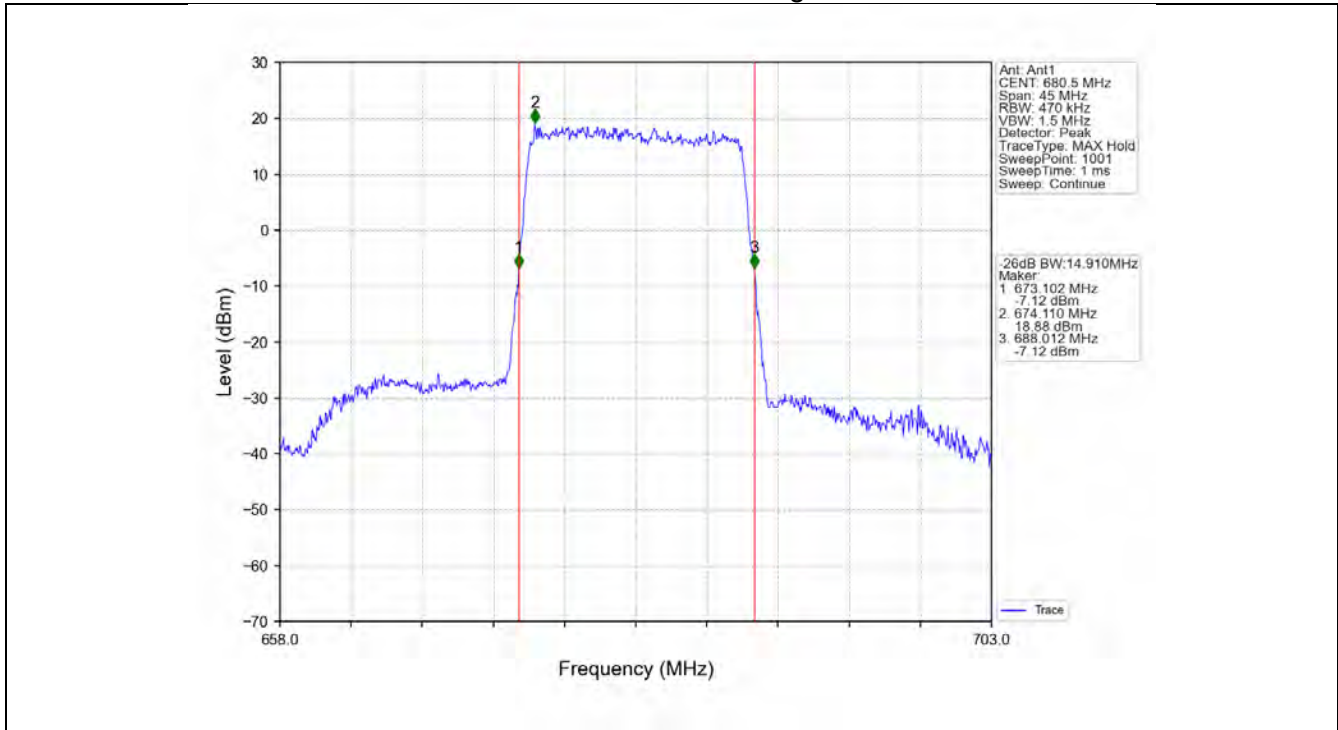
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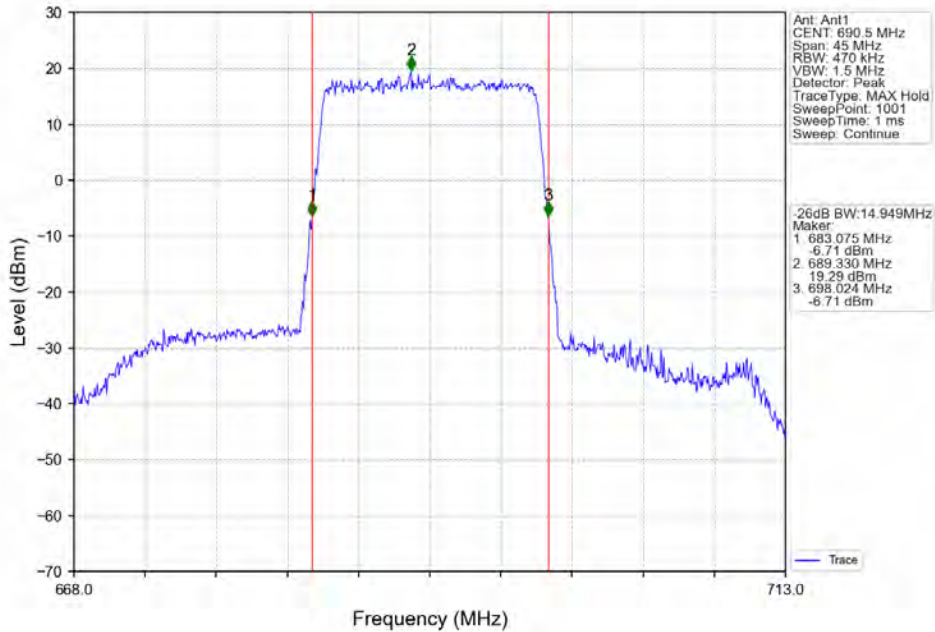


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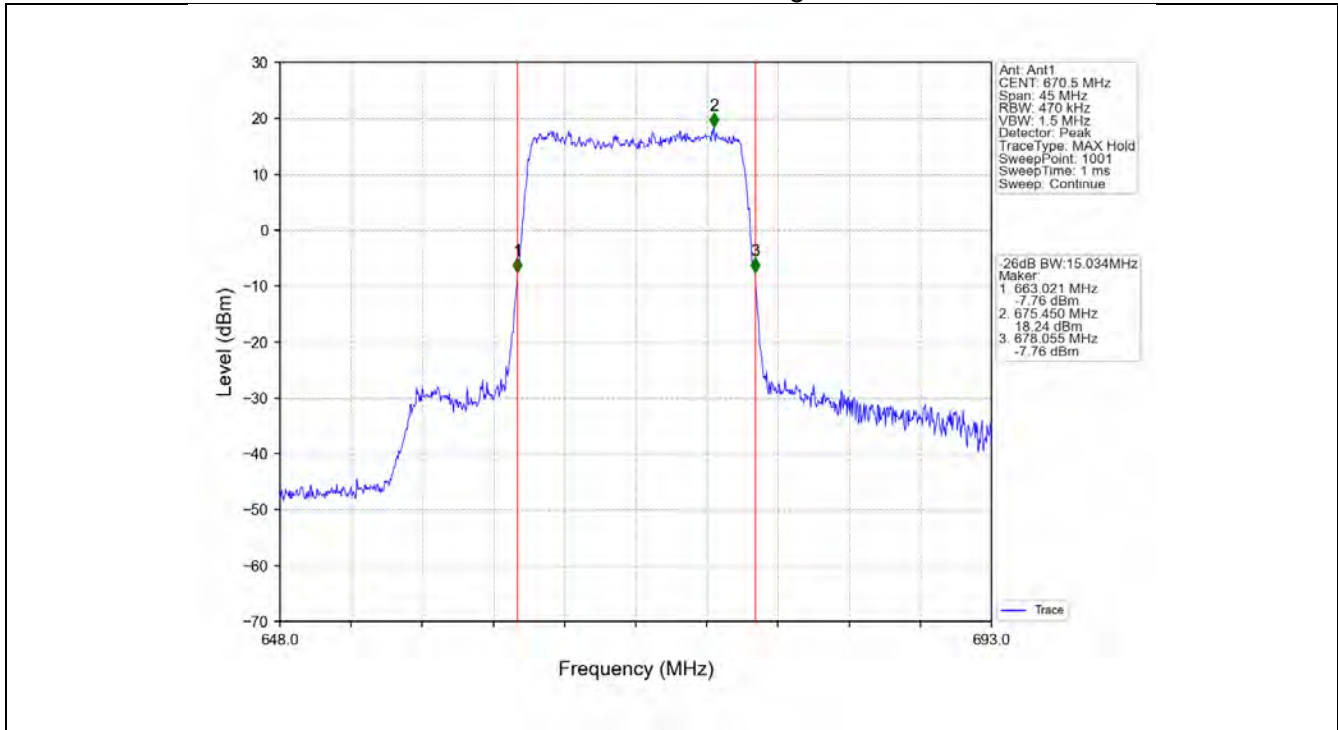
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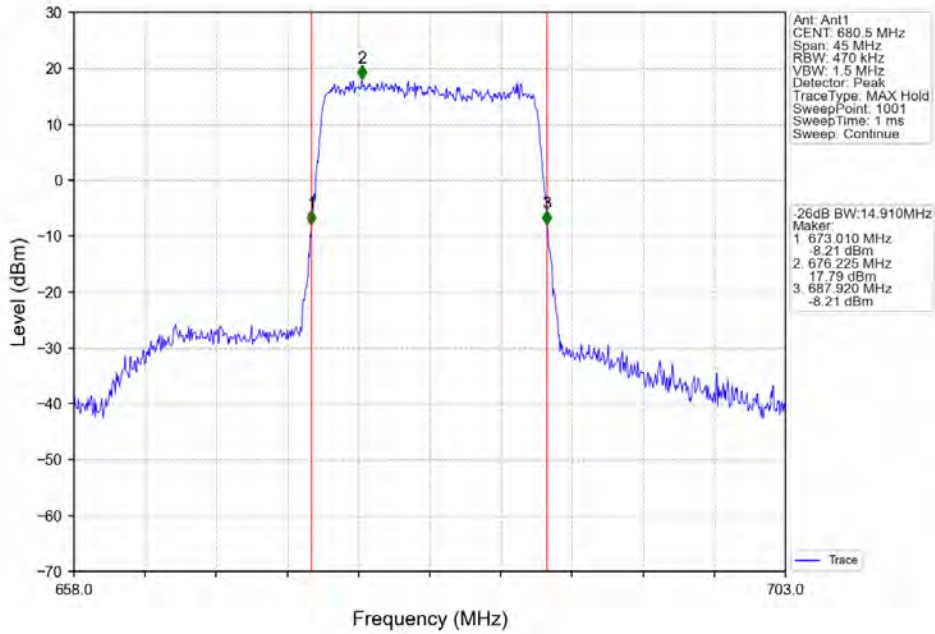


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Band71\_15MHz\_16QAM\_MCH\_680.5MHz\_RB\_75\_0\_NTNV



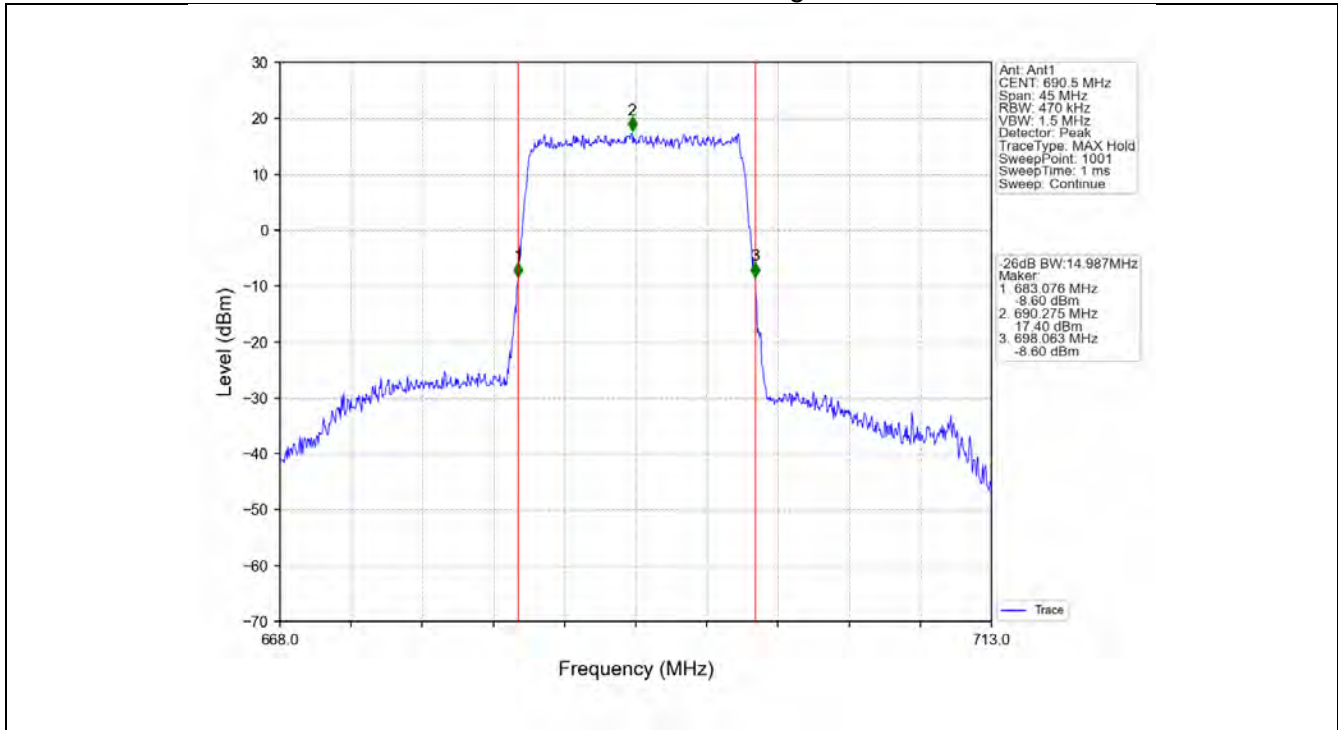
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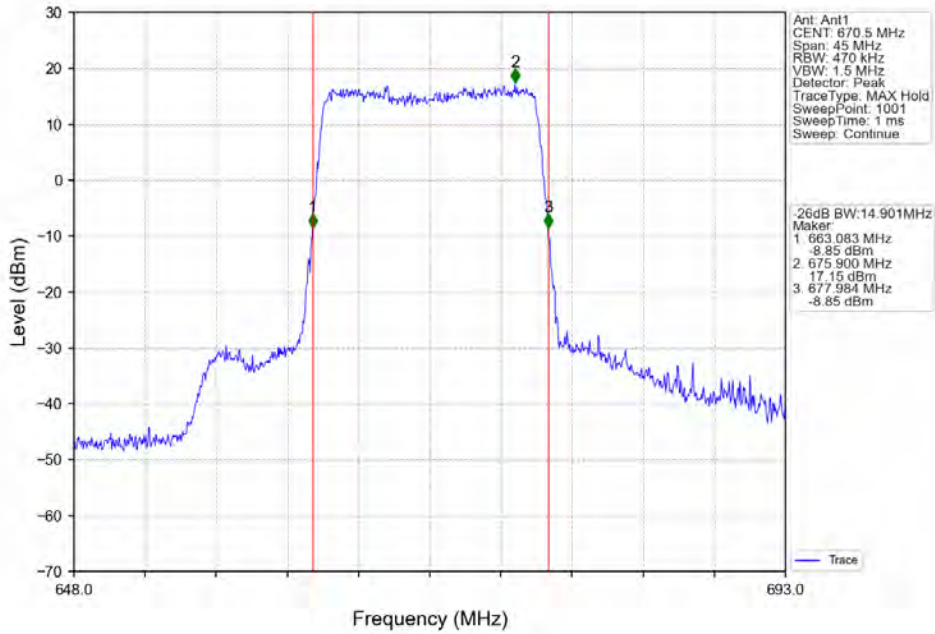


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Band71\_15MHz\_64QAM\_LCH\_670.5MHz\_RB\_75\_0\_NTNV



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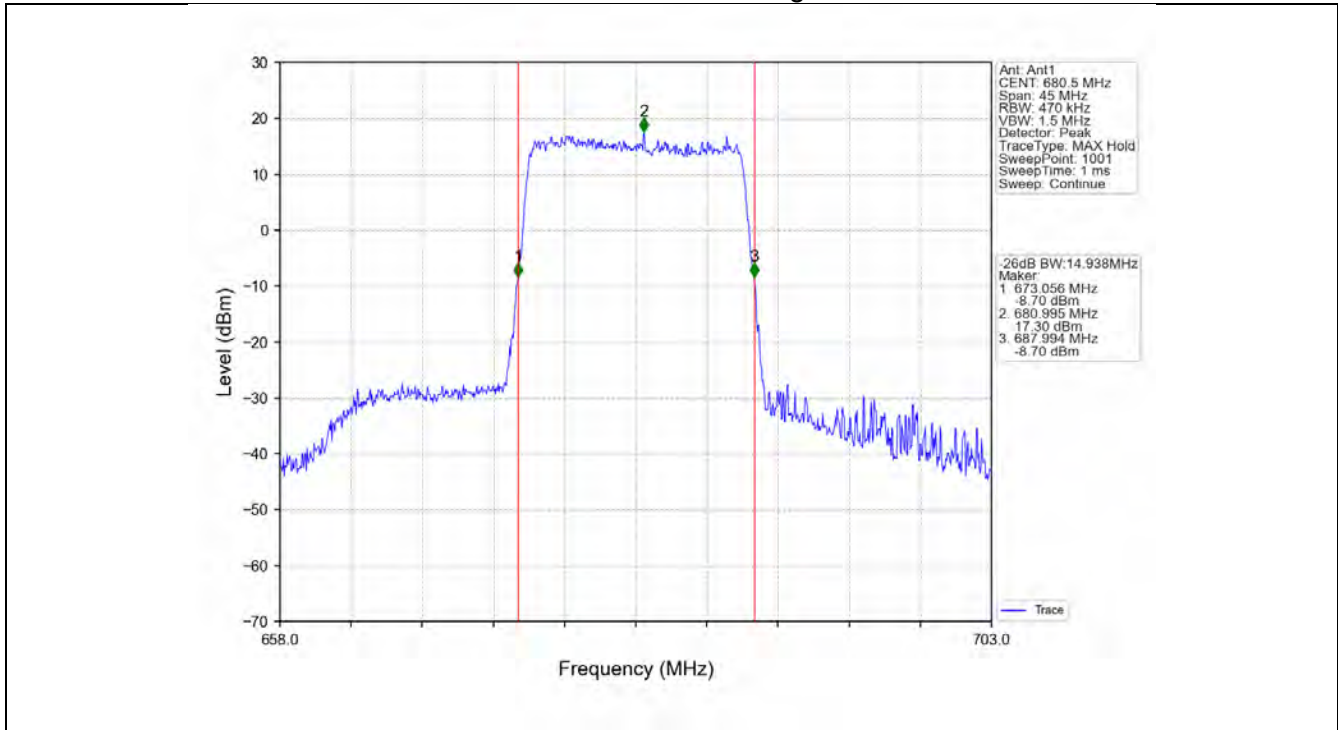
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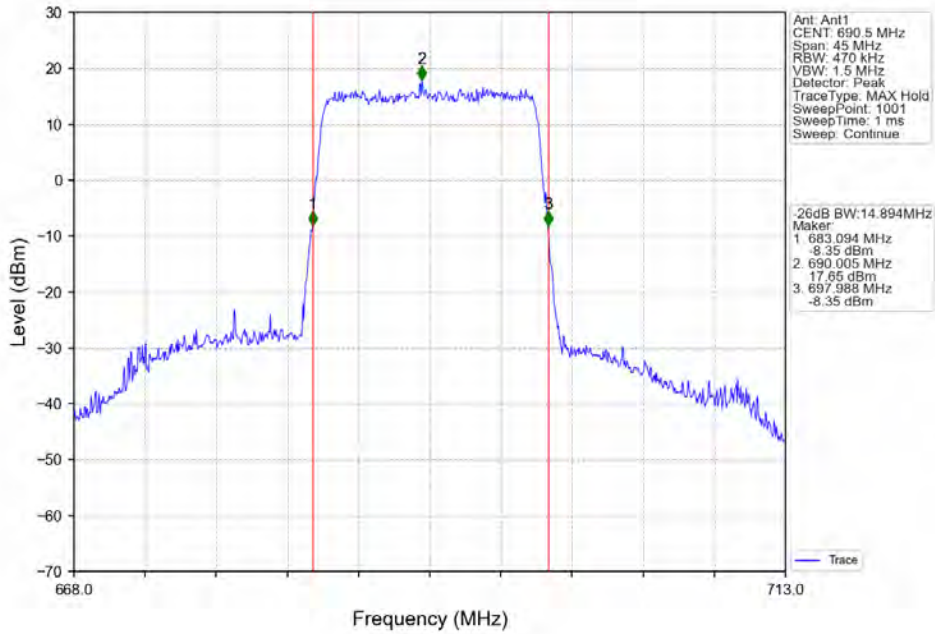


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Band71\_20MHz\_QPSK\_LCH\_673MHz\_RB\_100\_0\_NTNV



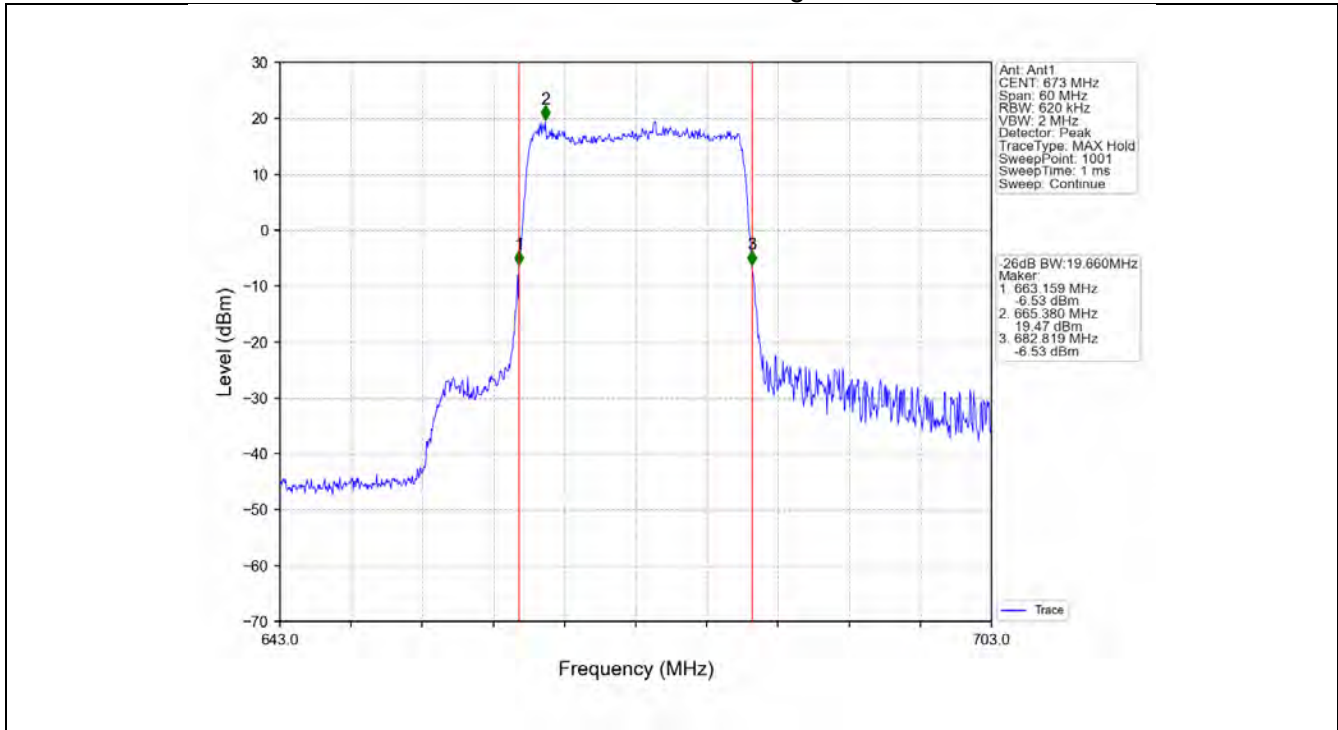
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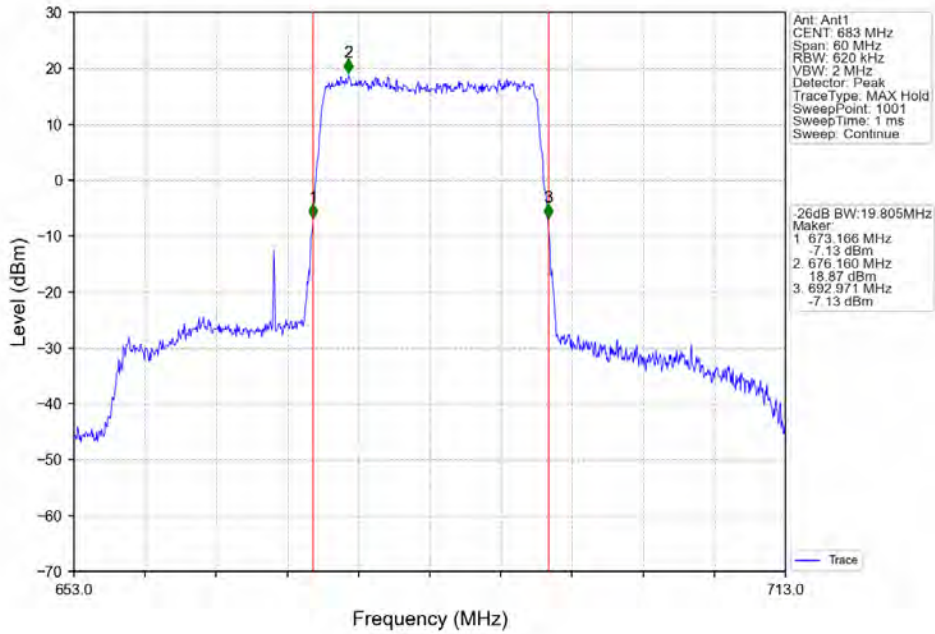


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Band71\_20MHz\_QPSK\_MCH\_683MHz\_RB\_100\_0\_NTNV



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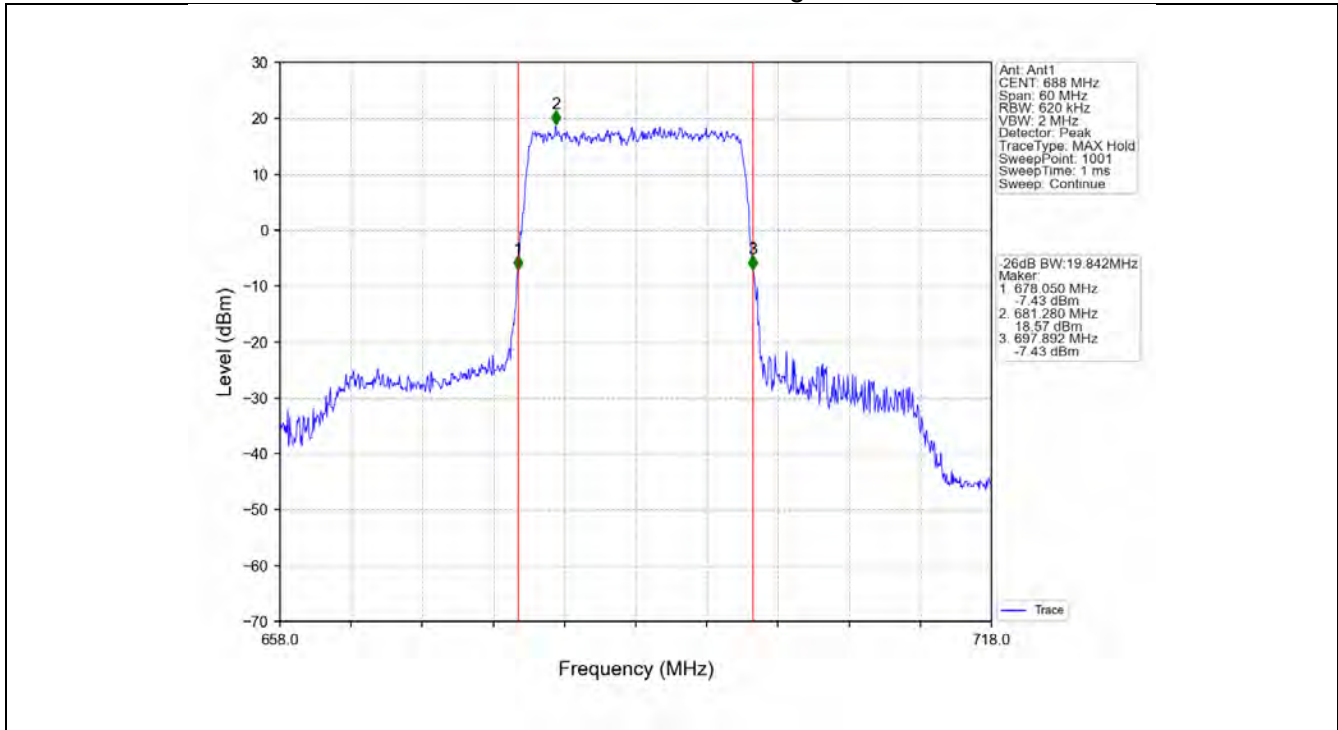


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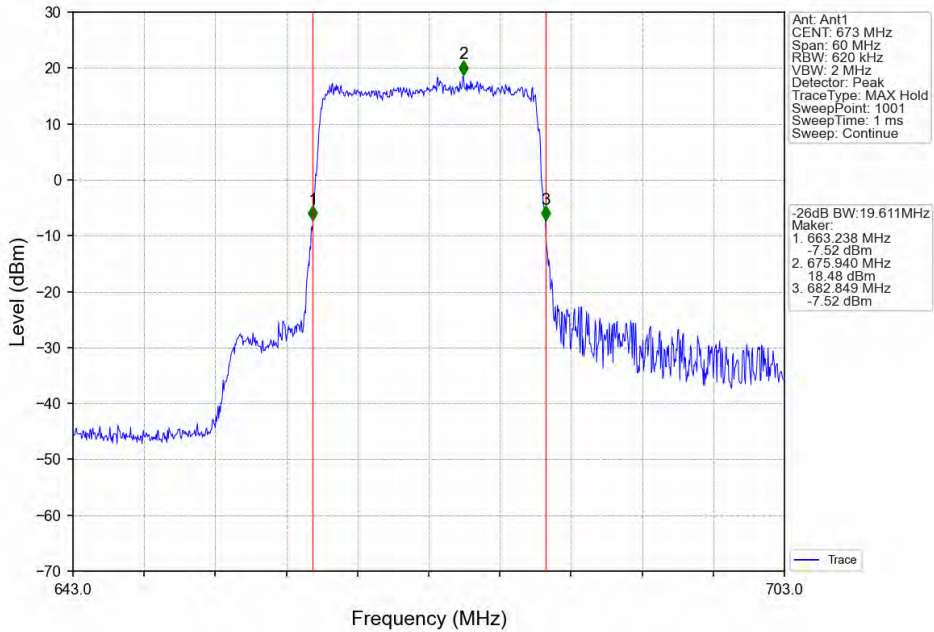


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Band71 20MHz 16QAM LCH 673MHz RB 100 0 NTN



Band71 20MHz 16QAM MCH 683MHz RB 100 0 NTN



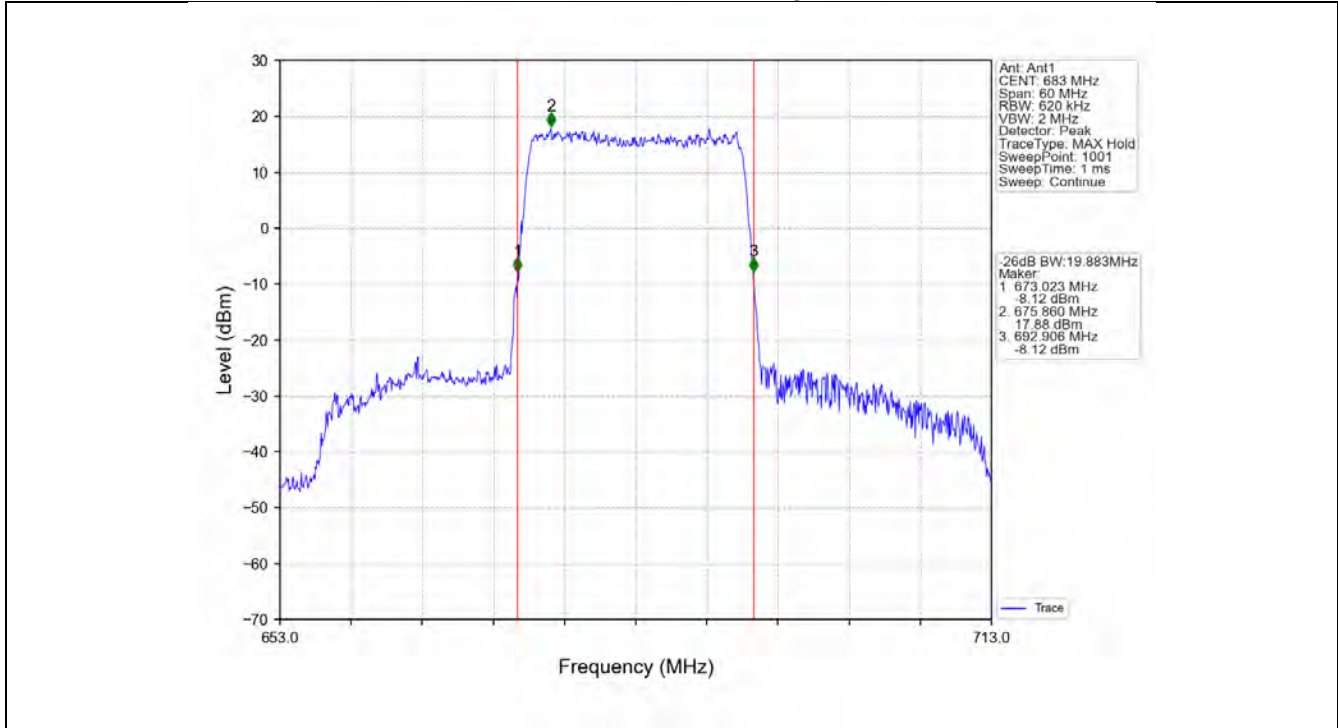
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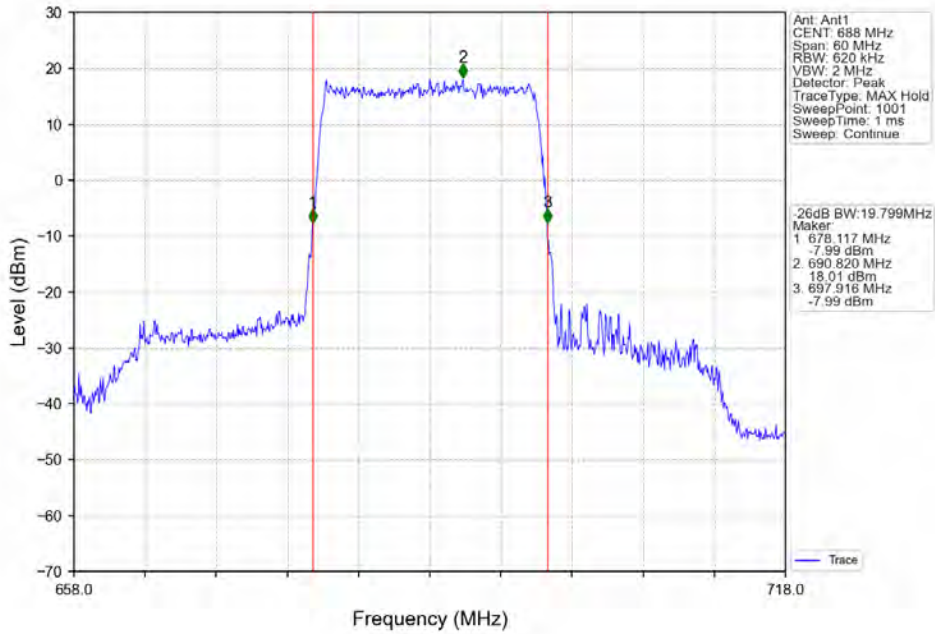


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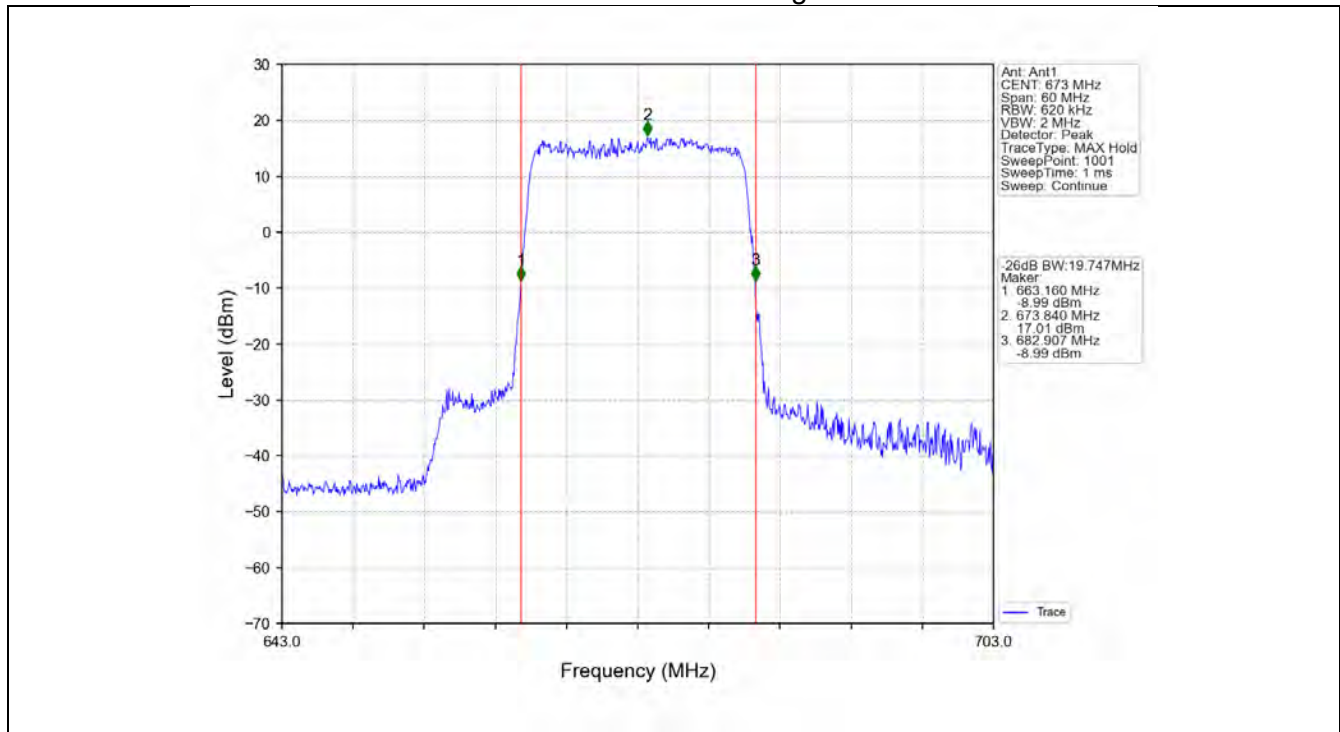
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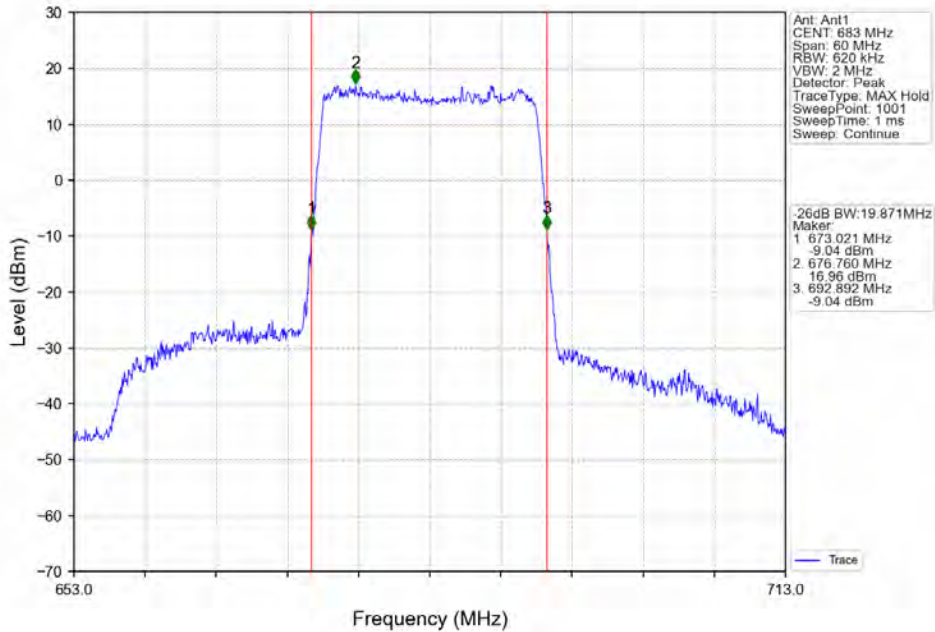


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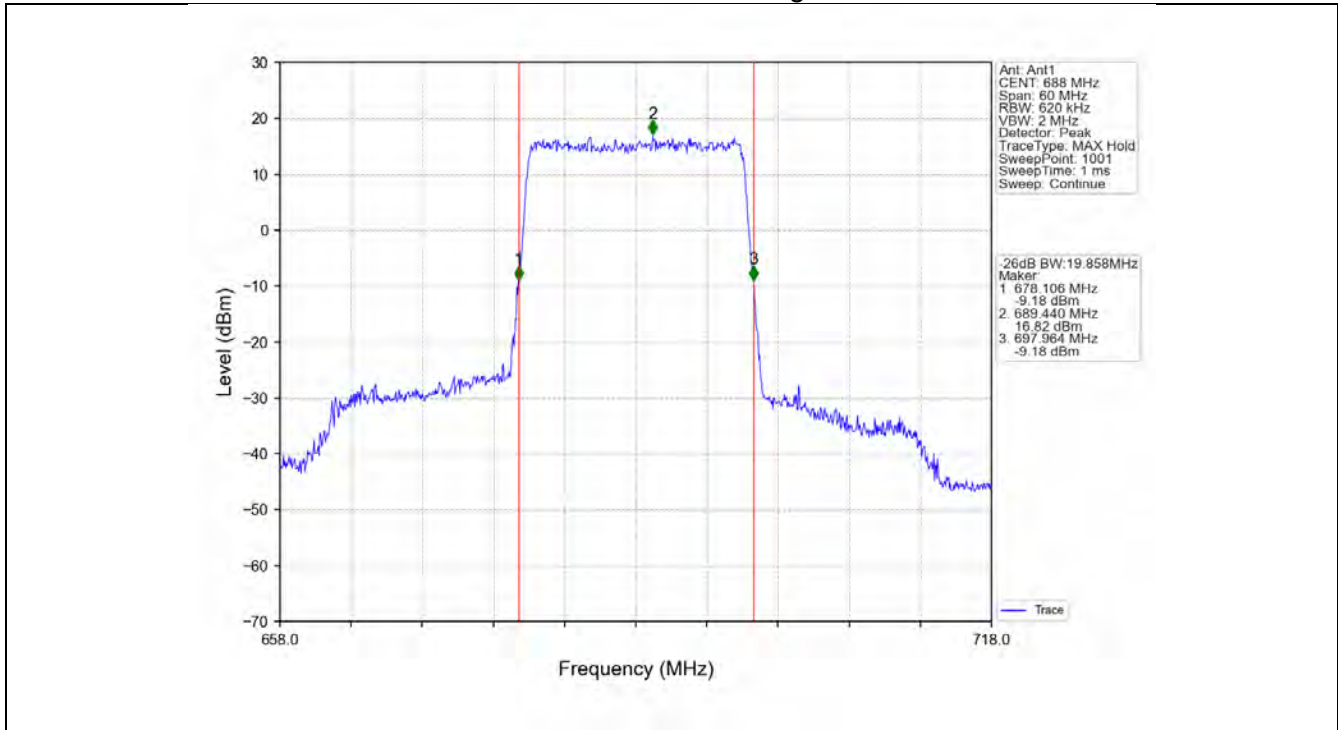
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## 4. Peak-Average Ratio

### 4.1 B71\_5MHz

#### 4.1.1 Test Result

Band: 71 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	665.5	25	0	5.51	<=13	Pass
	680.5	25	0	5.70	<=13	Pass
	695.5	25	0	5.79	<=13	Pass
16QAM	665.5	25	0	6.20	<=13	Pass
	680.5	25	0	6.42	<=13	Pass
	695.5	25	0	6.40	<=13	Pass
64QAM	665.5	25	0	6.41	<=13	Pass
	680.5	25	0	6.57	<=13	Pass
	695.5	25	0	6.58	<=13	Pass

### 4.2 B71\_10MHz

#### 4.2.1 Test Result

Band: 71 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	668	50	0	5.71	<=13	Pass
	680.5	50	0	5.68	<=13	Pass
	693	50	0	5.69	<=13	Pass
16QAM	668	50	0	6.39	<=13	Pass
	680.5	50	0	6.44	<=13	Pass
	693	50	0	6.43	<=13	Pass
64QAM	668	50	0	6.58	<=13	Pass
	680.5	50	0	6.61	<=13	Pass
	693	50	0	6.57	<=13	Pass



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4.3 B71\_15MHz

4.3.1 Test Result

Band: 71 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	670.5	75	0	6.10	<=13	Pass
	680.5	75	0	6.04	<=13	Pass
	690.5	75	0	6.00	<=13	Pass
16QAM	670.5	75	0	6.50	<=13	Pass
	680.5	75	0	6.47	<=13	Pass
	690.5	75	0	6.44	<=13	Pass
64QAM	670.5	75	0	6.60	<=13	Pass
	680.5	75	0	6.55	<=13	Pass
	690.5	75	0	6.60	<=13	Pass

4.4 B71\_20MHz

4.4.1 Test Result

Band: 71 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	673	100	0	5.61	<=13	Pass
	683	100	0	5.78	<=13	Pass
	688	100	0	5.75	<=13	Pass
16QAM	673	100	0	6.37	<=13	Pass
	683	100	0	6.47	<=13	Pass
	688	100	0	6.42	<=13	Pass
64QAM	673	100	0	6.57	<=13	Pass
	683	100	0	6.65	<=13	Pass
	688	100	0	6.62	<=13	Pass



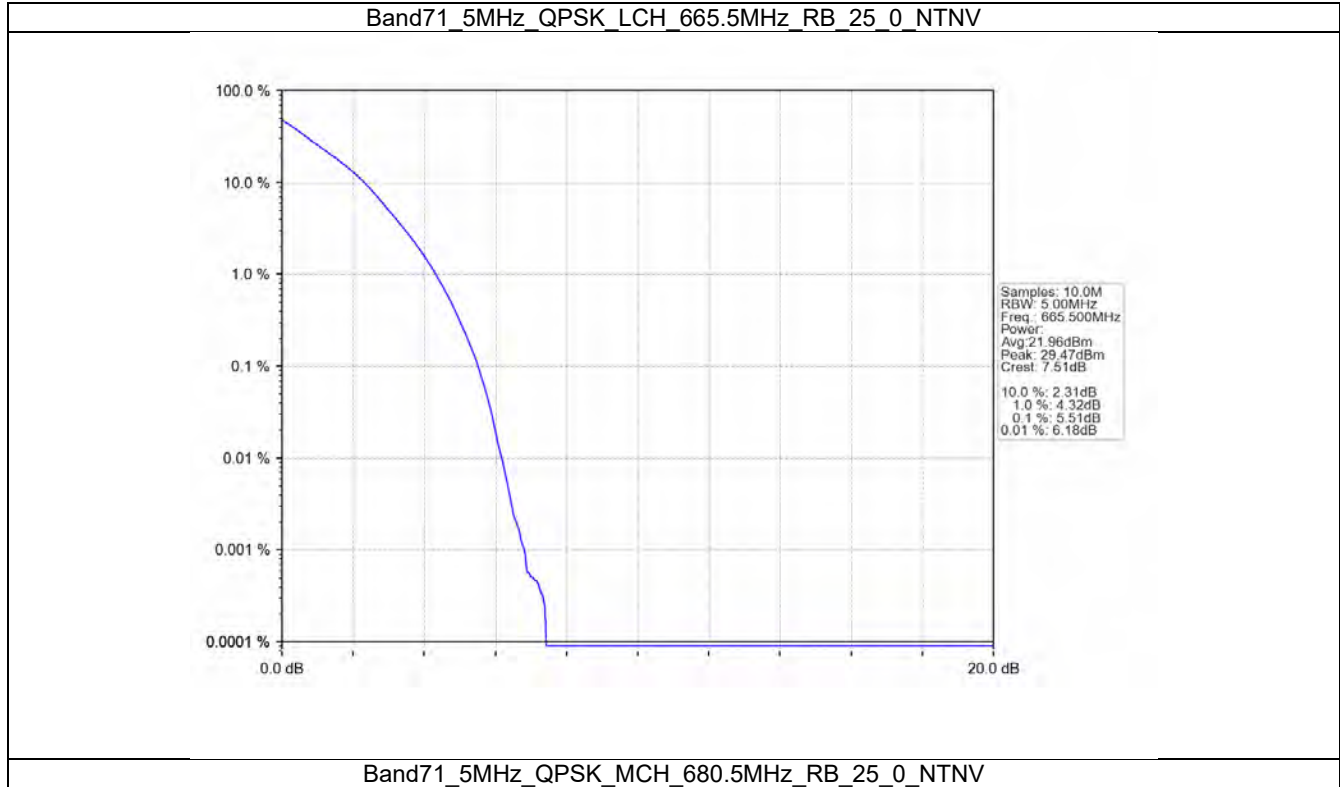
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4.1 B71\_5MHz

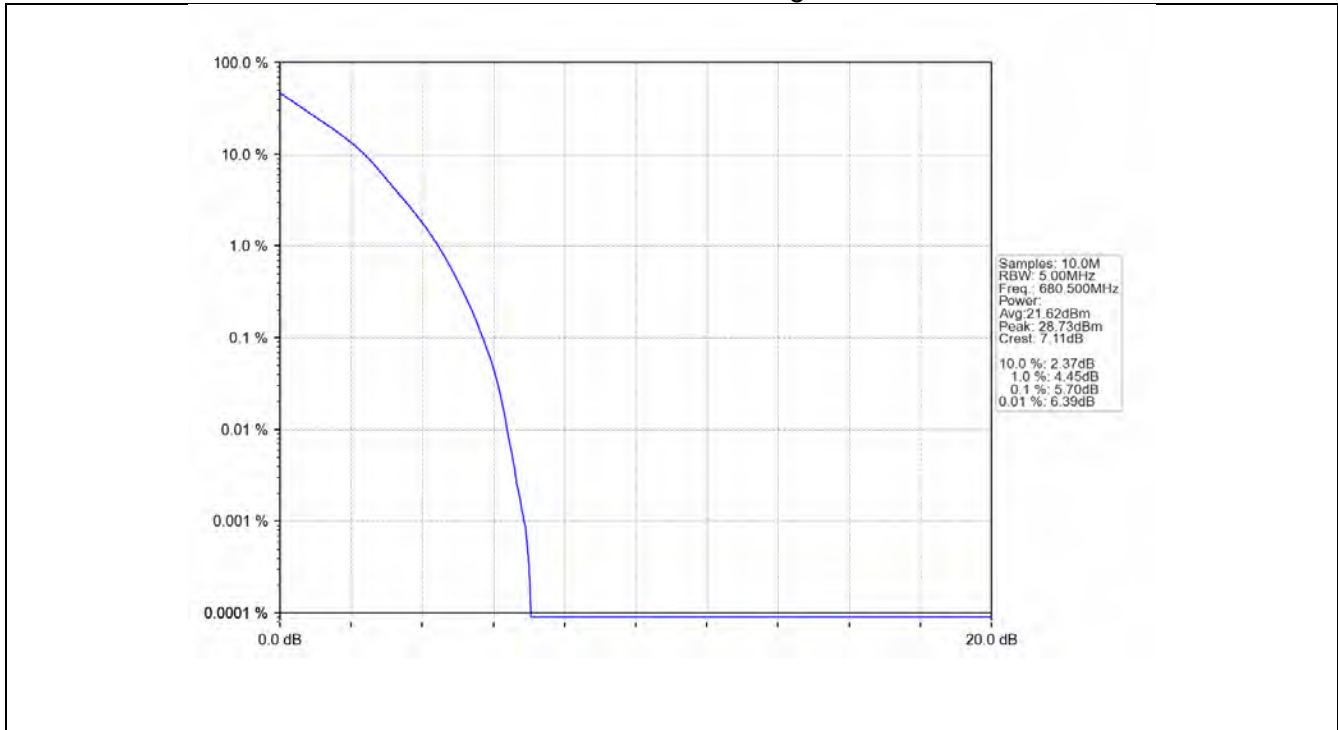
4.1.2 Test Graph



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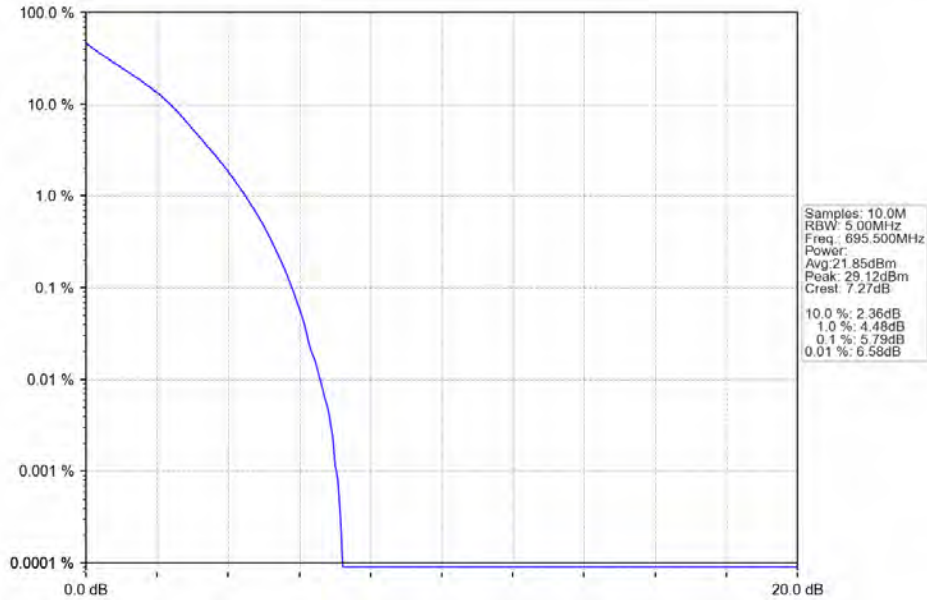


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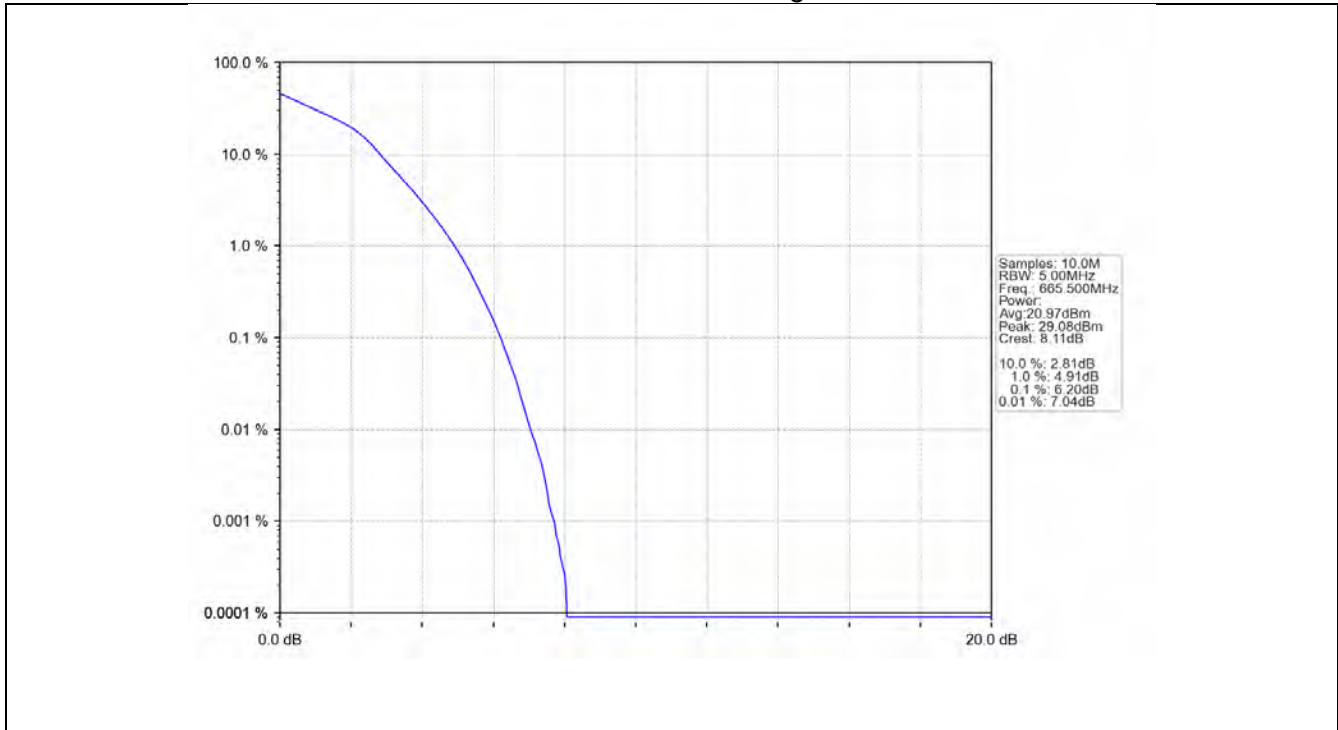
Band71\_5MHz\_16QAM\_LCH\_665.5MHz\_RB\_25\_0\_NTNV



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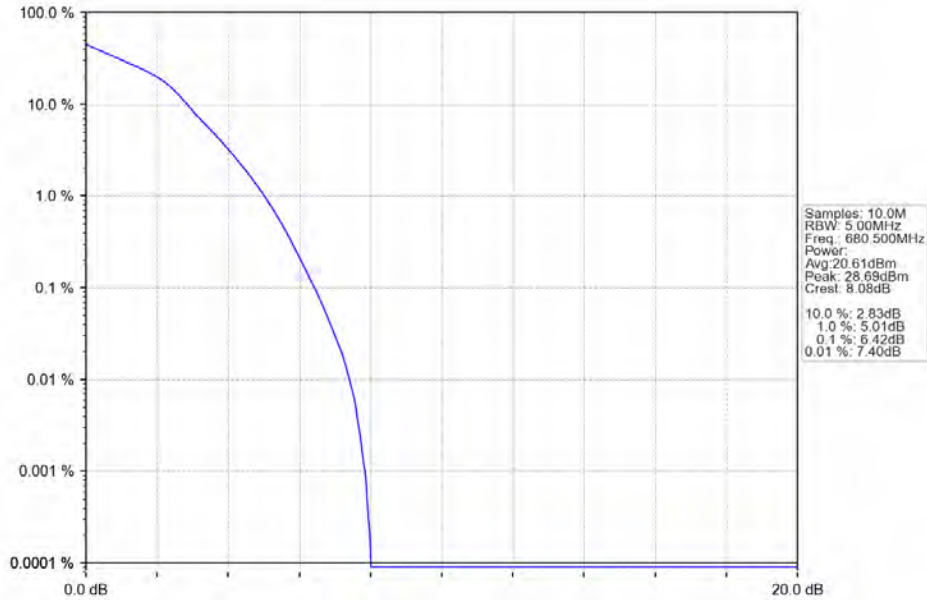


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Band71 5MHz 16QAM MCH 680.5MHz\_RB\_25\_0\_NTNV



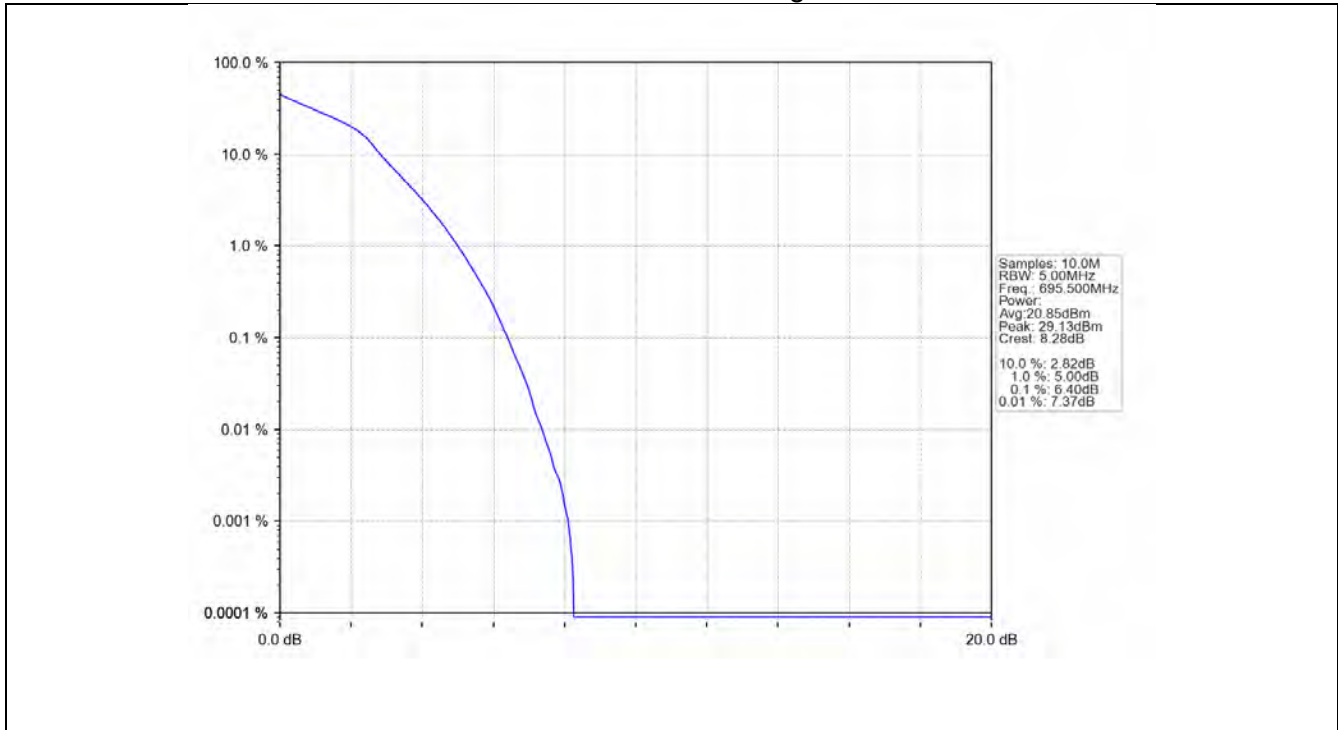
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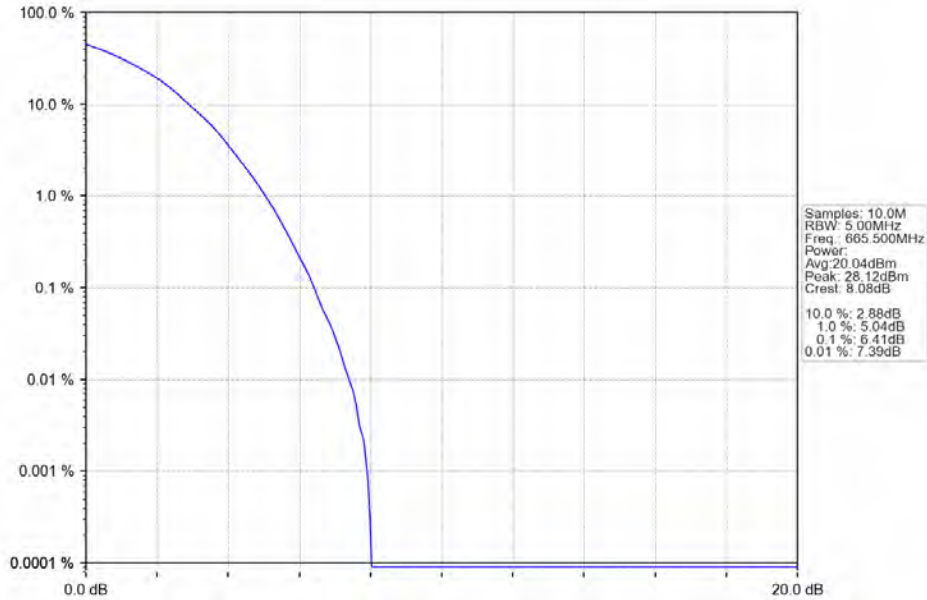


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Band71\_5MHz\_64QAM\_MCH\_680.5MHz\_RB\_25\_0\_NTNV

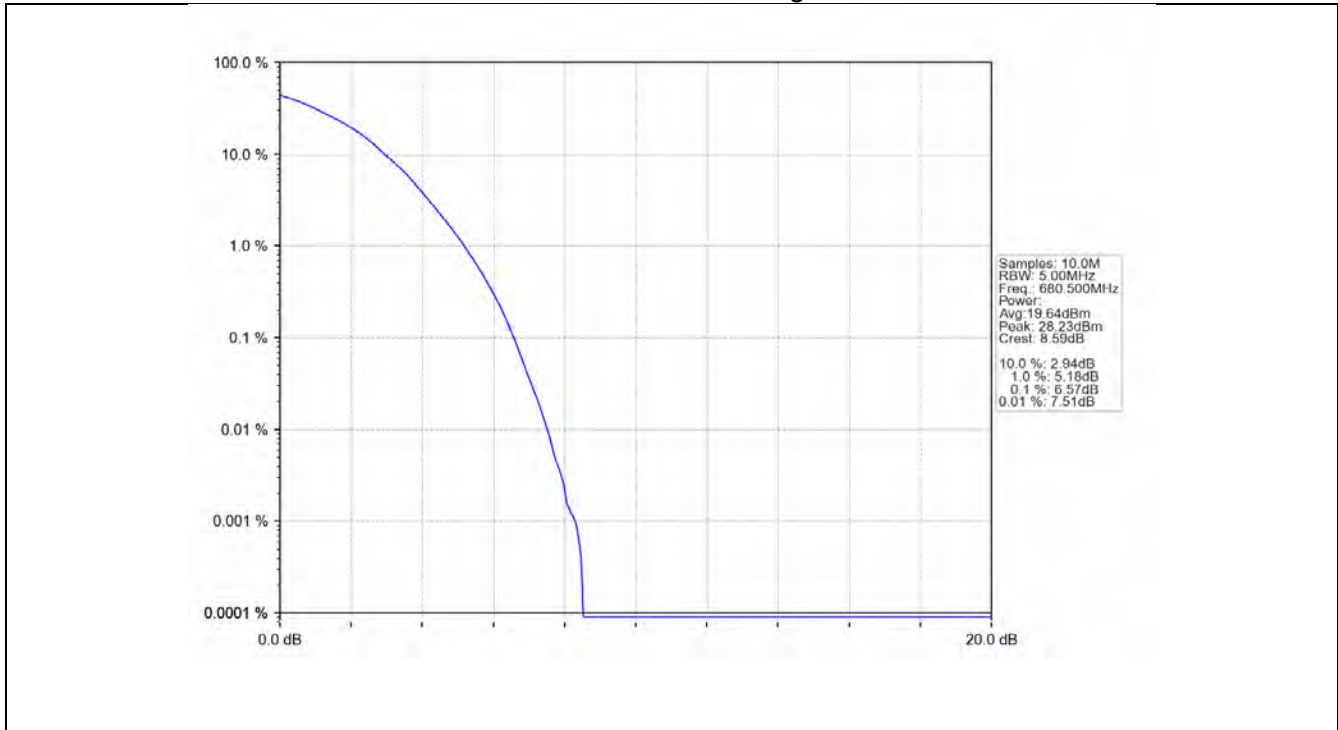


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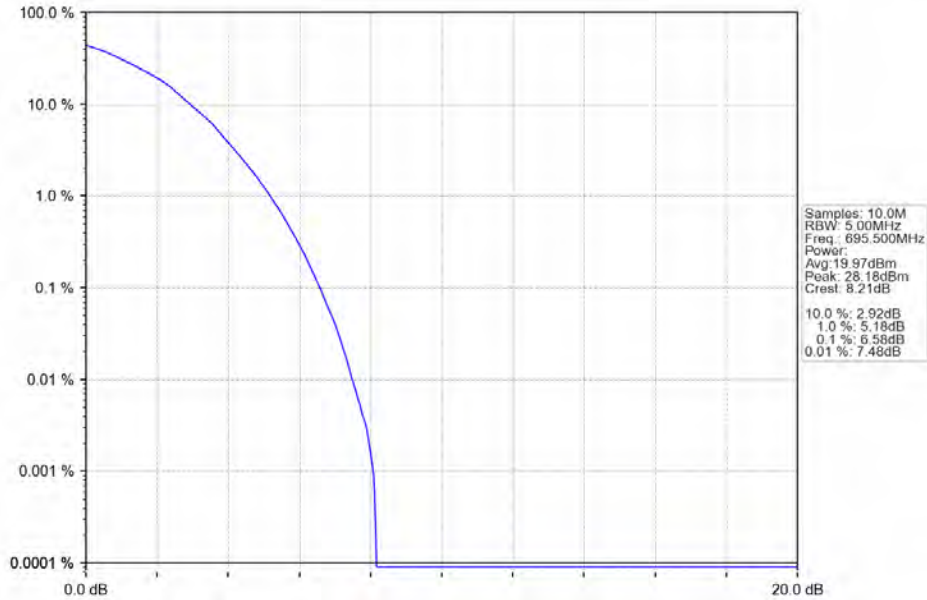


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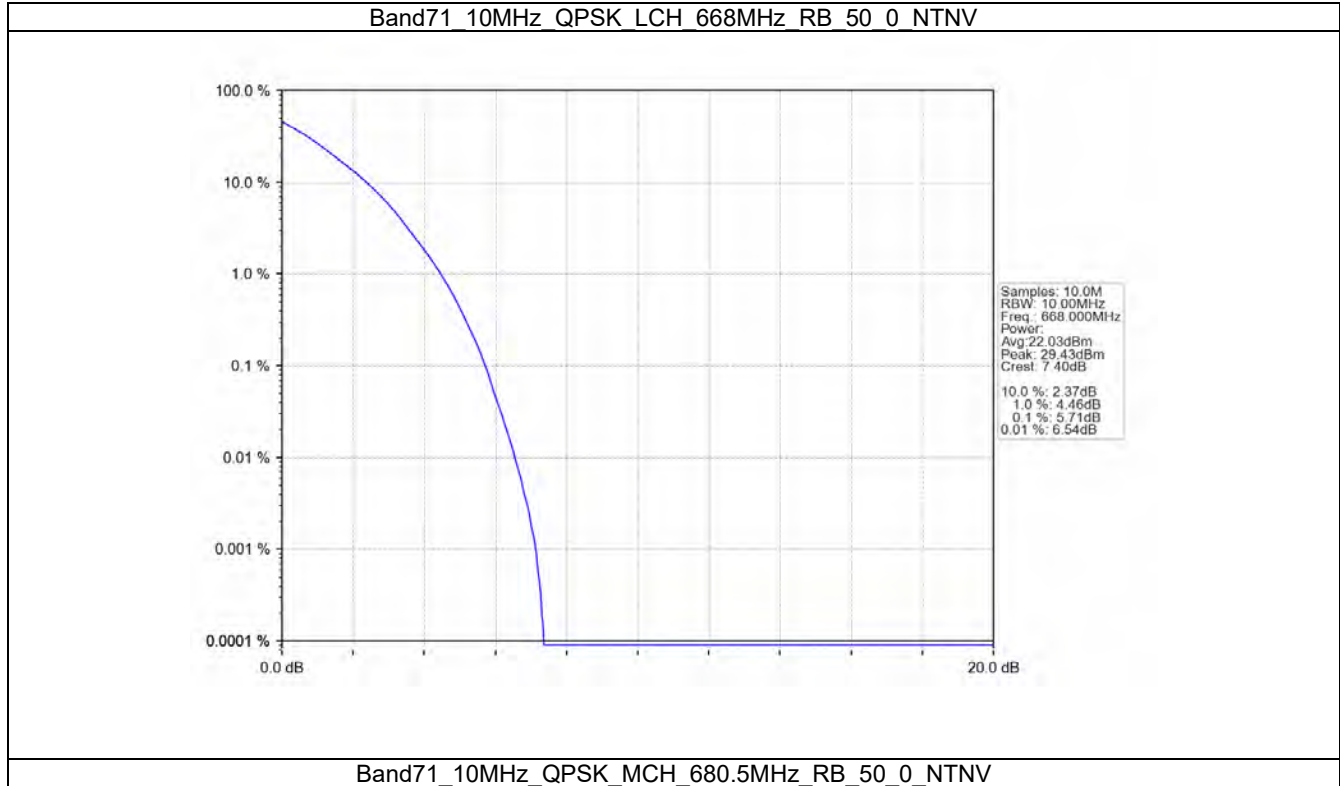
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4.2 B71\_10MHz

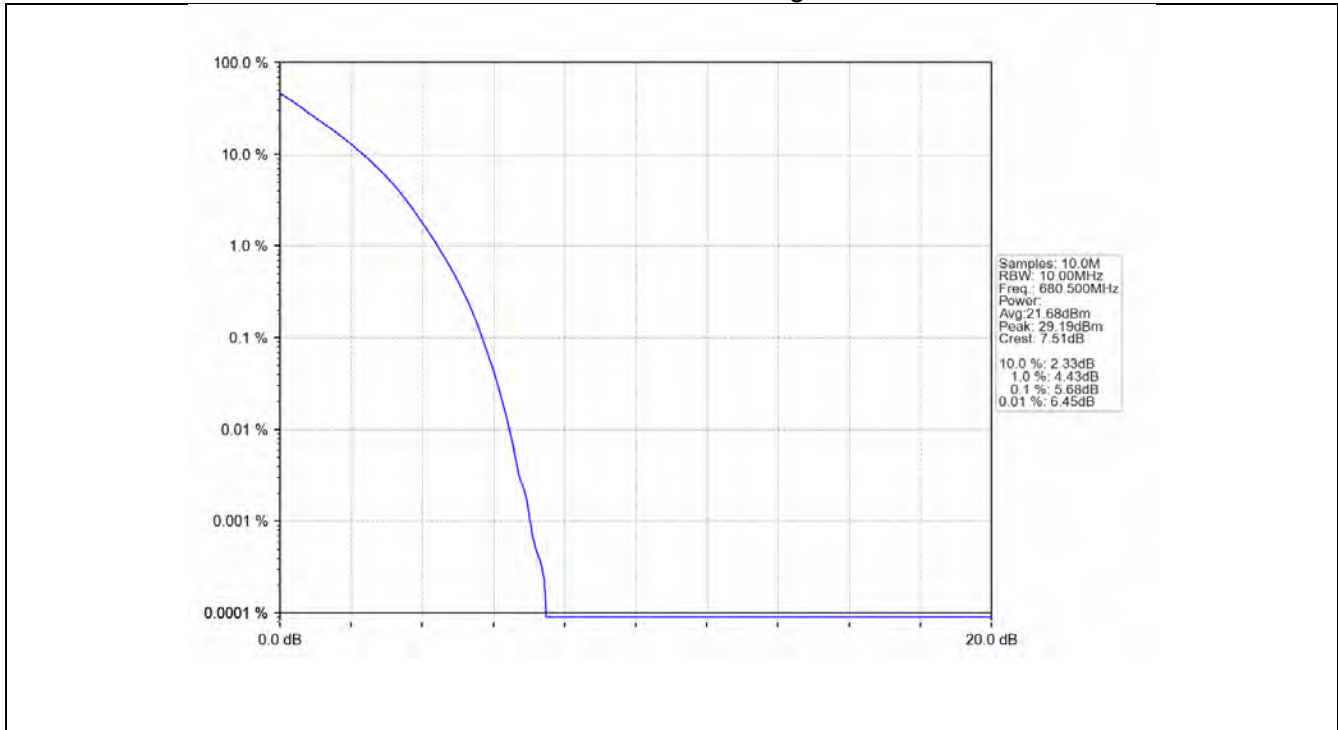
4.2.2 Test Graph



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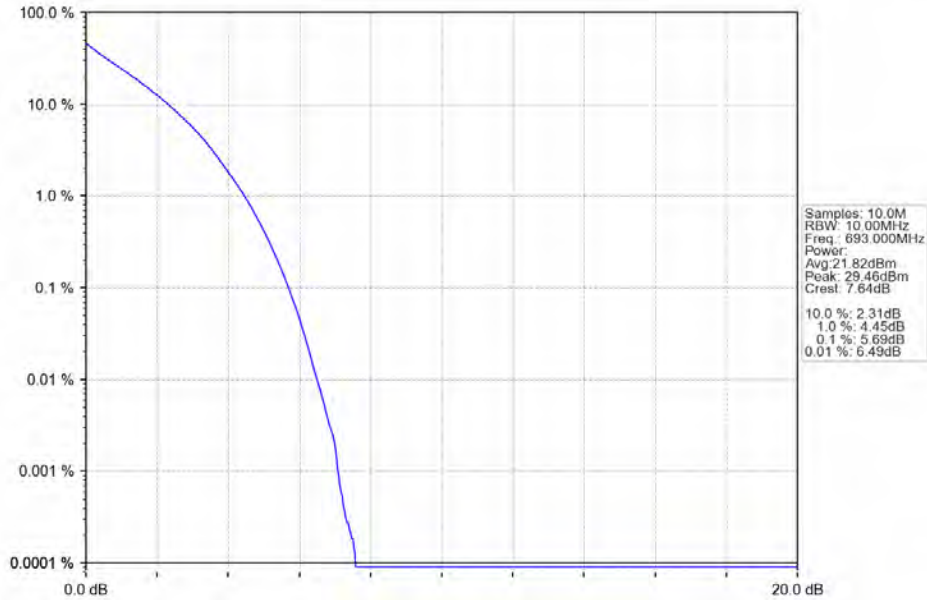


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Band71\_10MHz\_QPSK\_HCH\_693MHz\_RB\_50\_0\_NTNV



Band71\_10MHz\_16QAM\_LCH\_668MHz\_RB\_50\_0\_NTNV

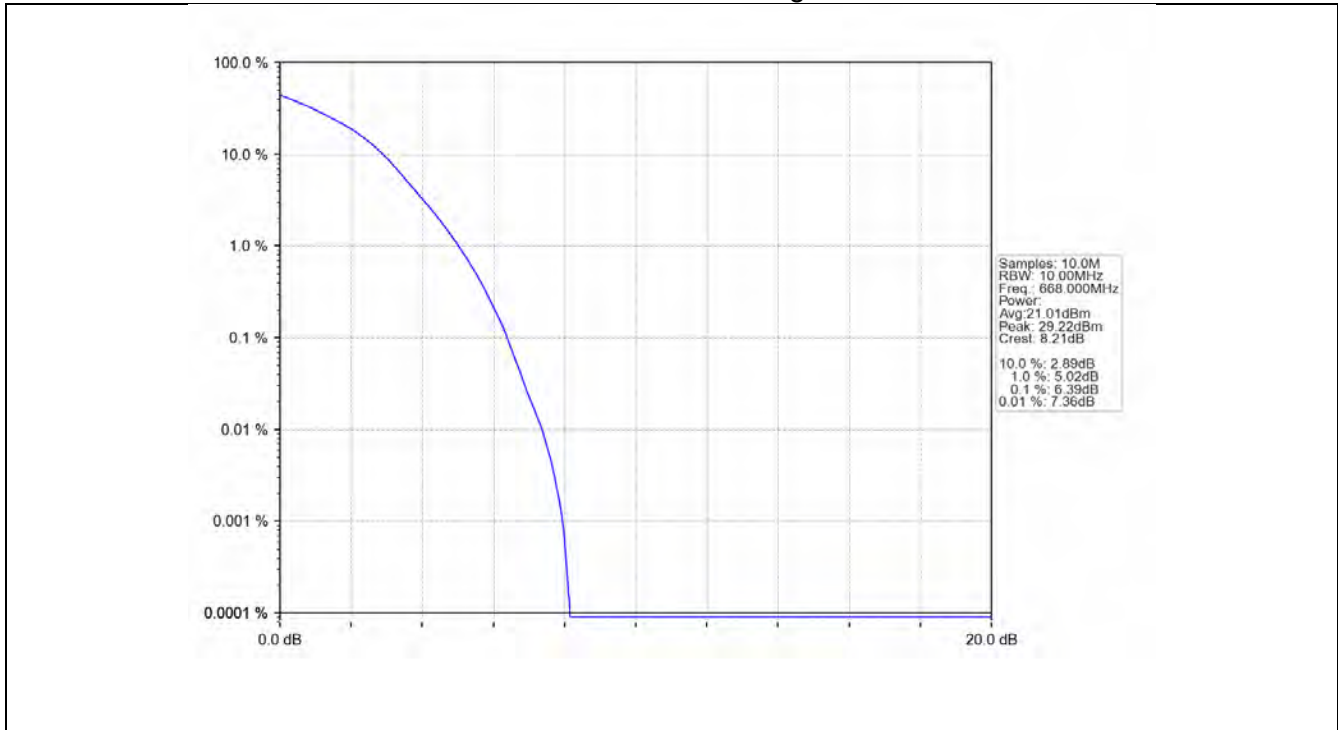


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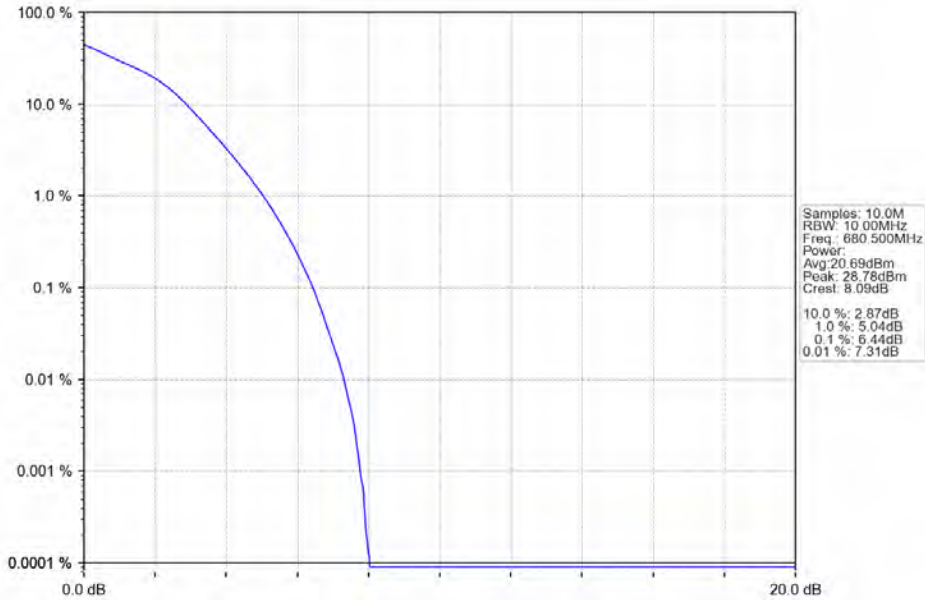


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Band71\_10MHz\_16QAM\_MCH\_680.5MHz\_RB\_50\_0\_NTNV



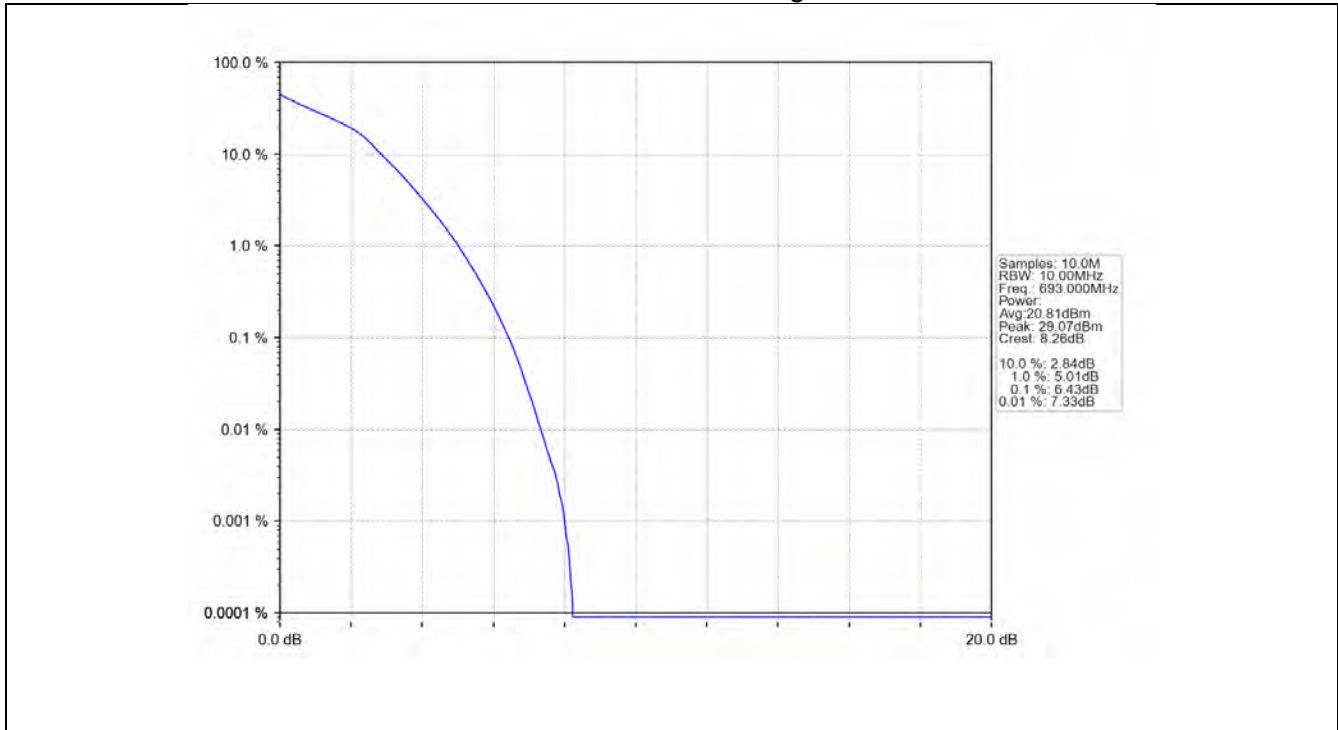
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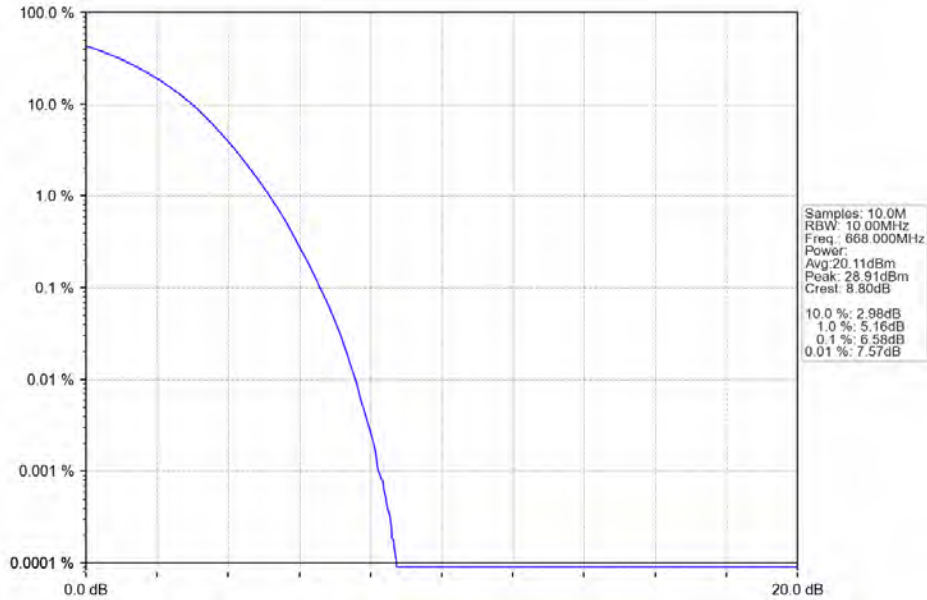
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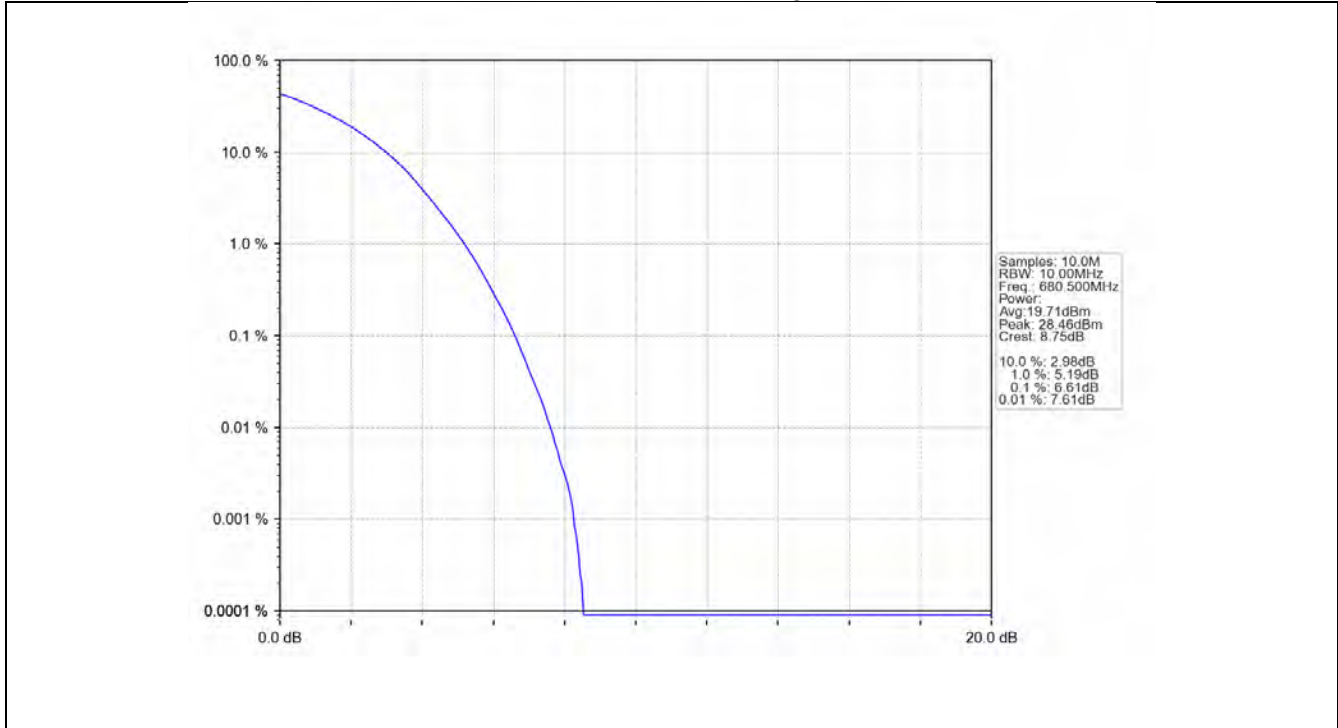


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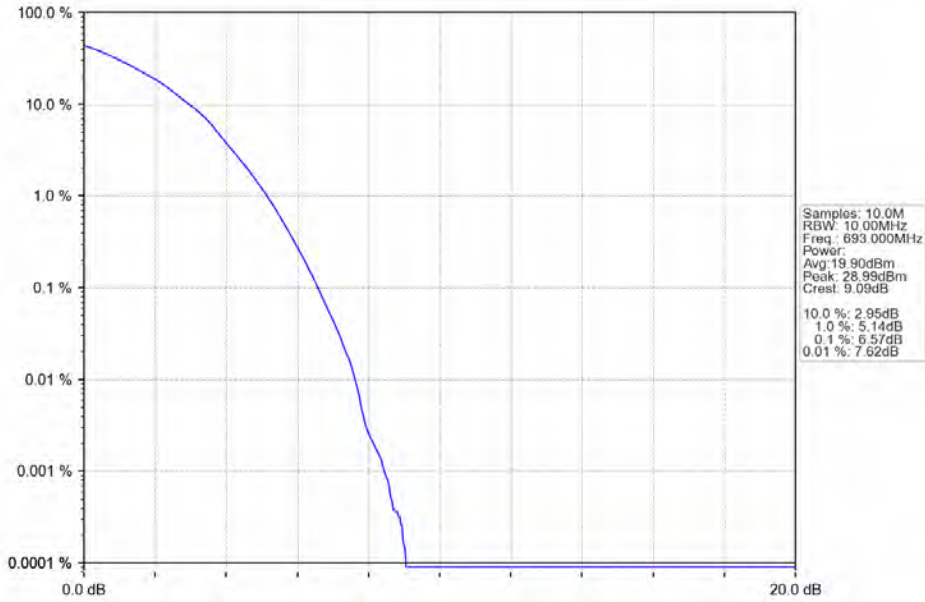


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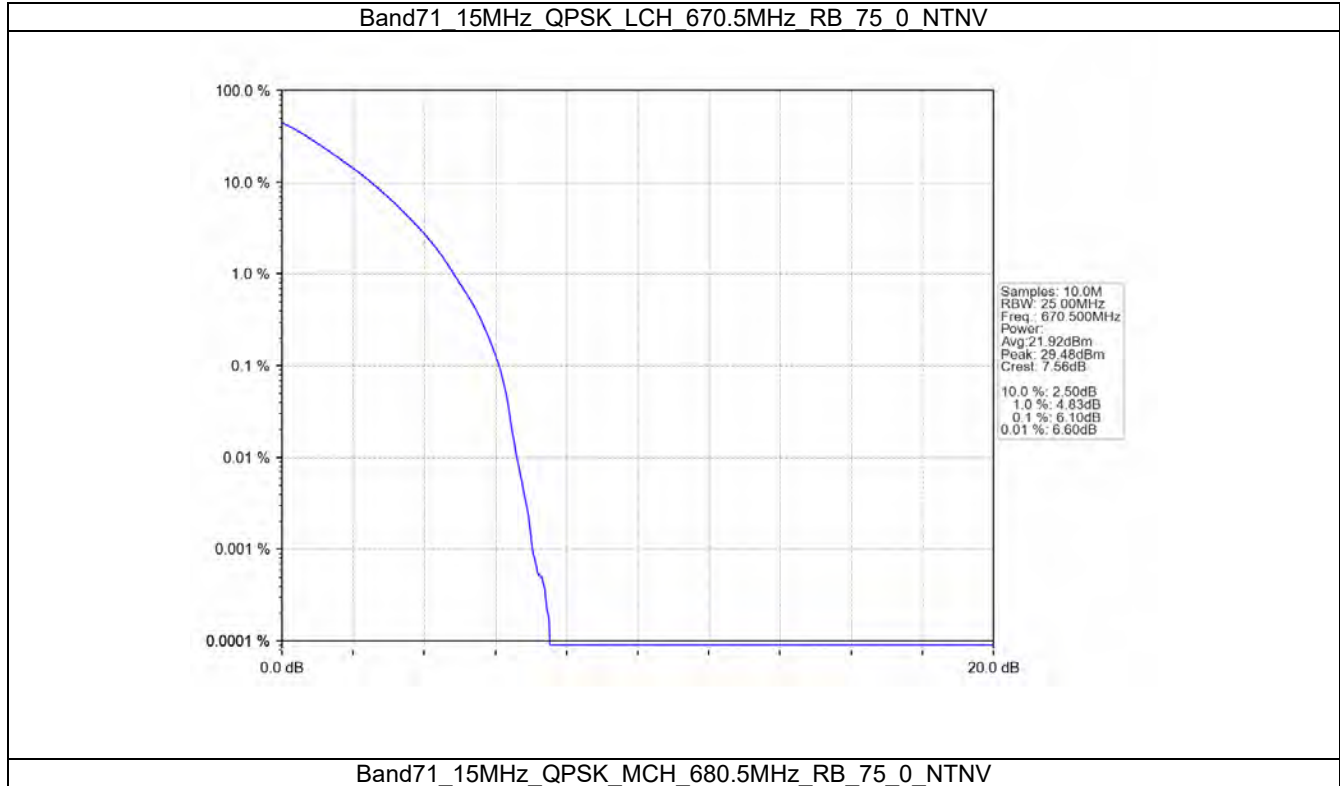
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4.3 B71\_15MHz

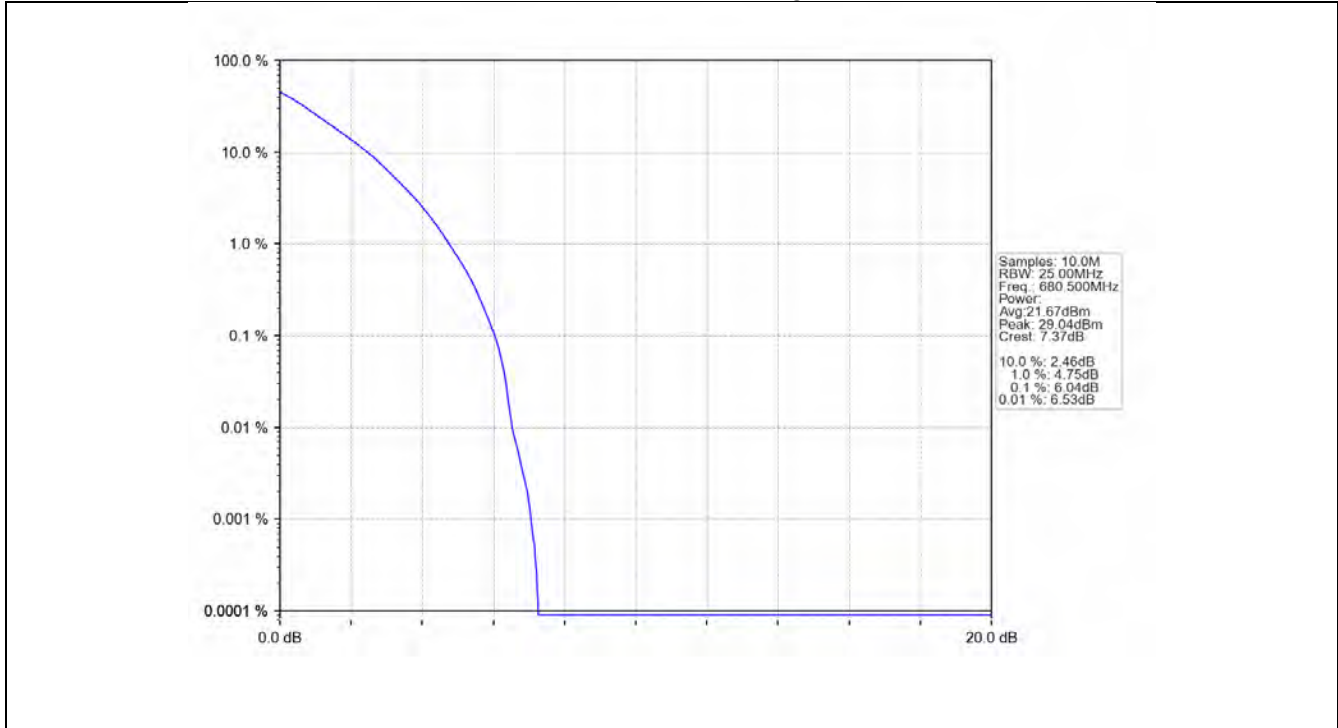
4.3.2 Test Graph



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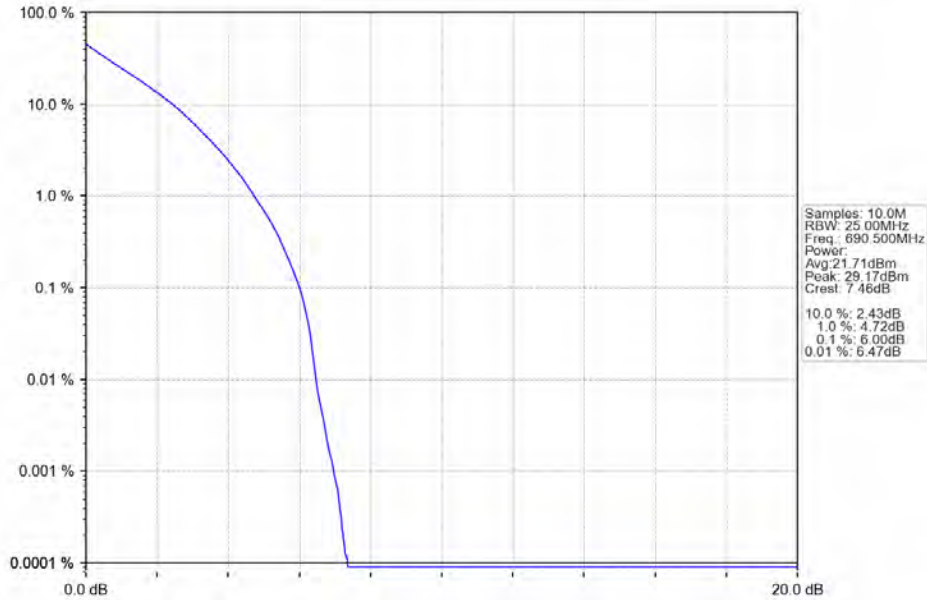


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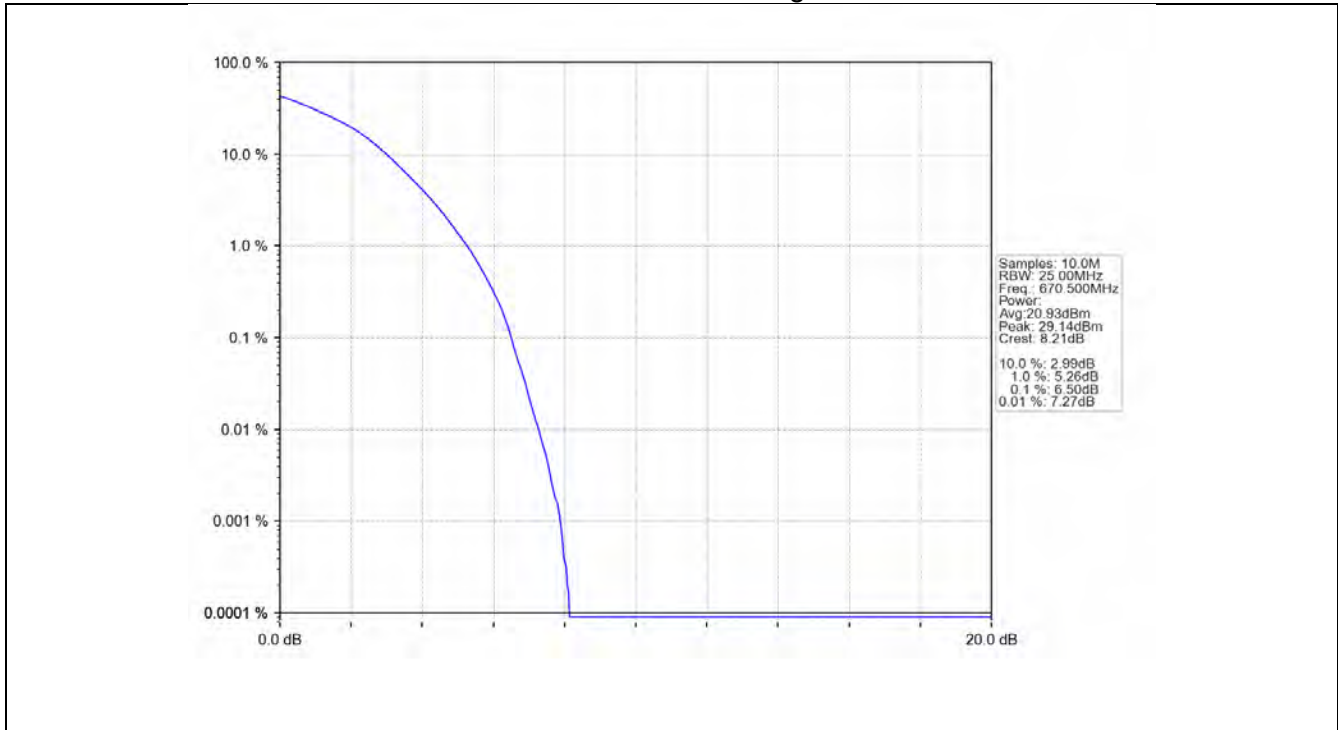
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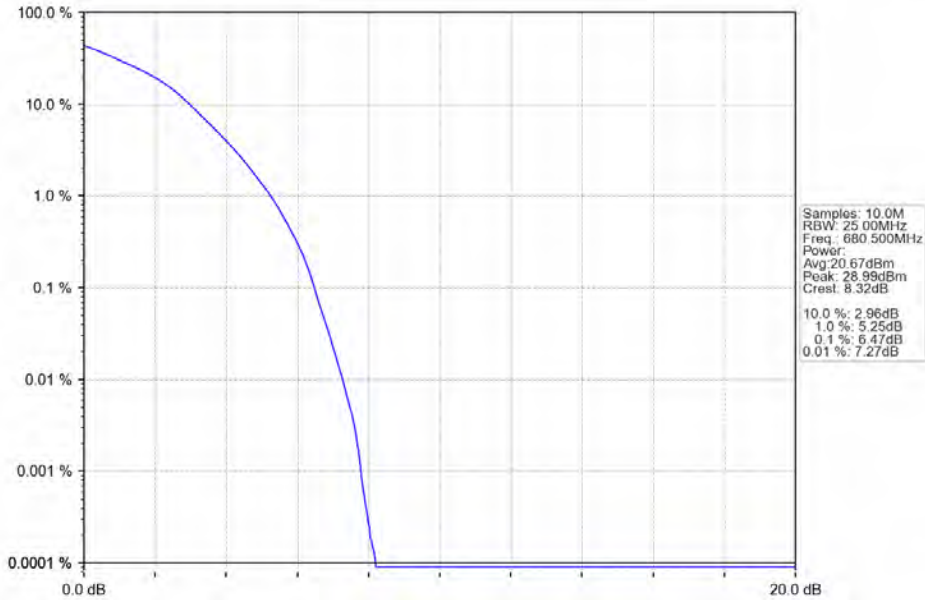


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Band71\_15MHz\_16QAM\_MCH\_680.5MHz\_RB\_75\_0\_NTNV



Band71\_15MHz\_16QAM\_HCH\_690.5MHz\_RB\_75\_0\_NTNV

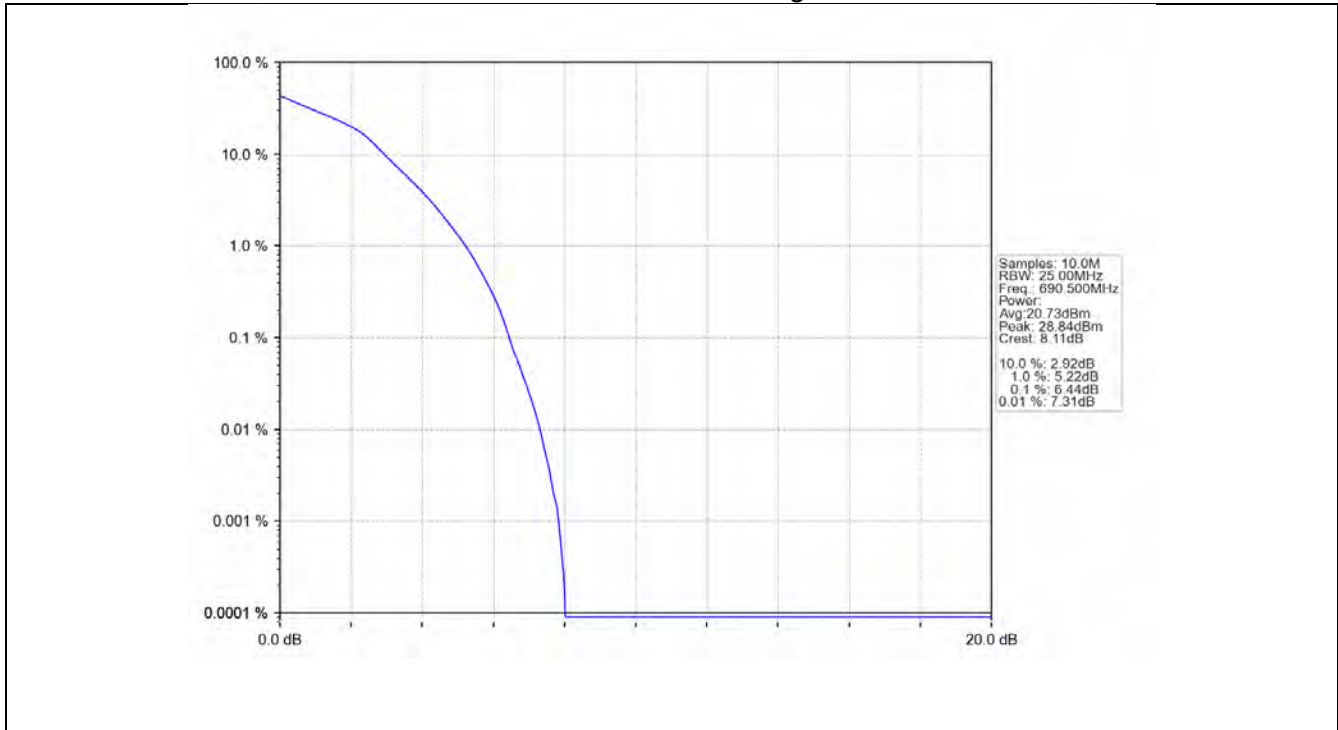


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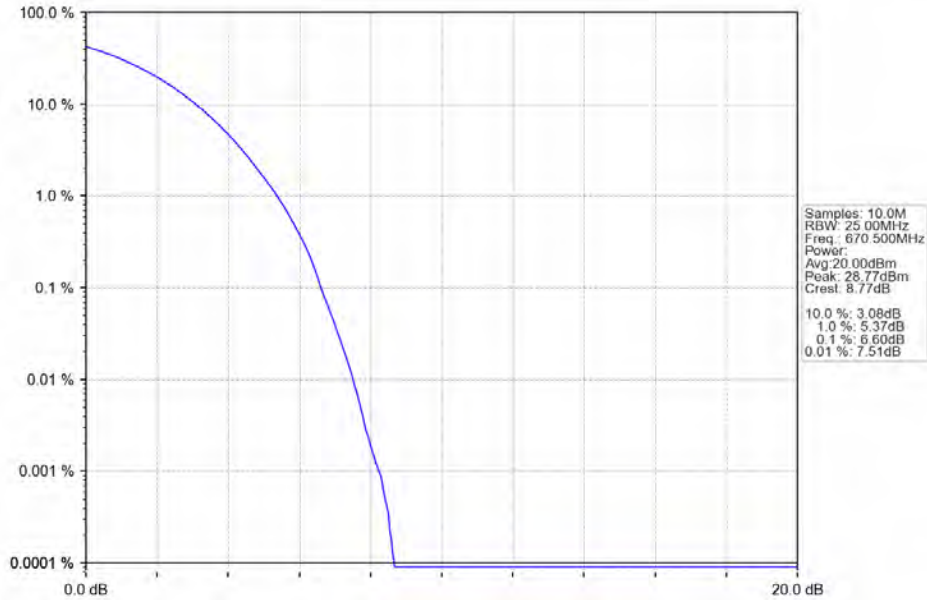


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Band71\_15MHz\_64QAM\_LCH\_670.5MHz\_RB\_75\_0\_NTNV



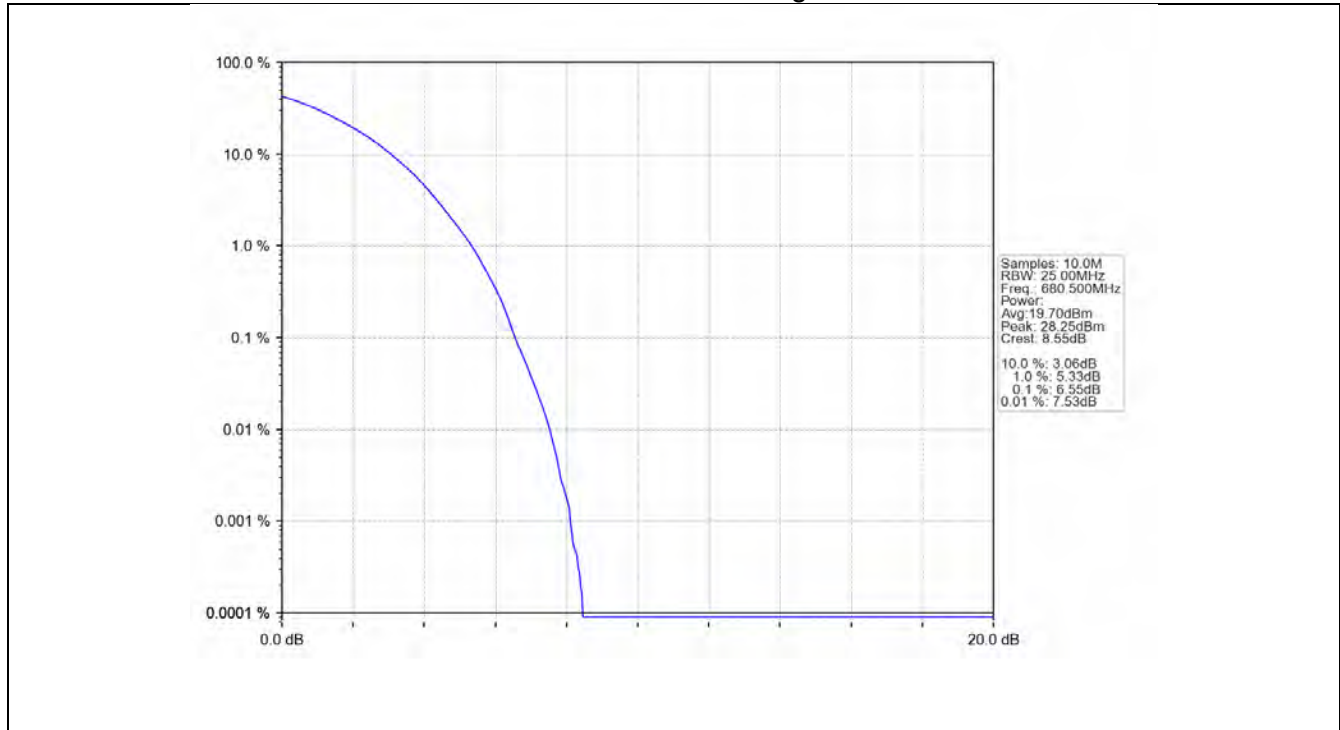
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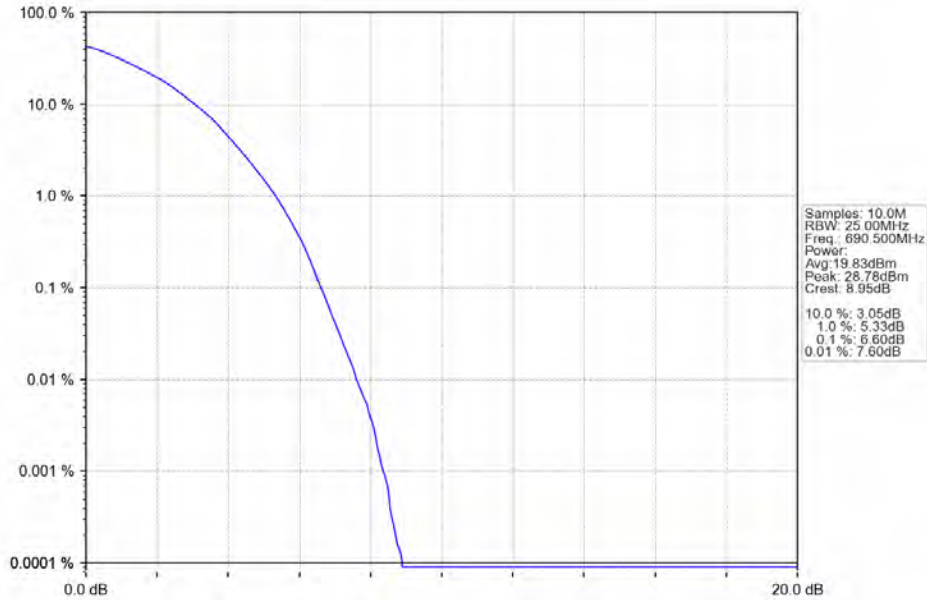


Report No.: SUCR240200003402

Rev.: 01

Page: 124 of 166

Band71\_15MHz\_64QAM\_HCH\_690.5MHz\_RB\_75\_0\_NTNV



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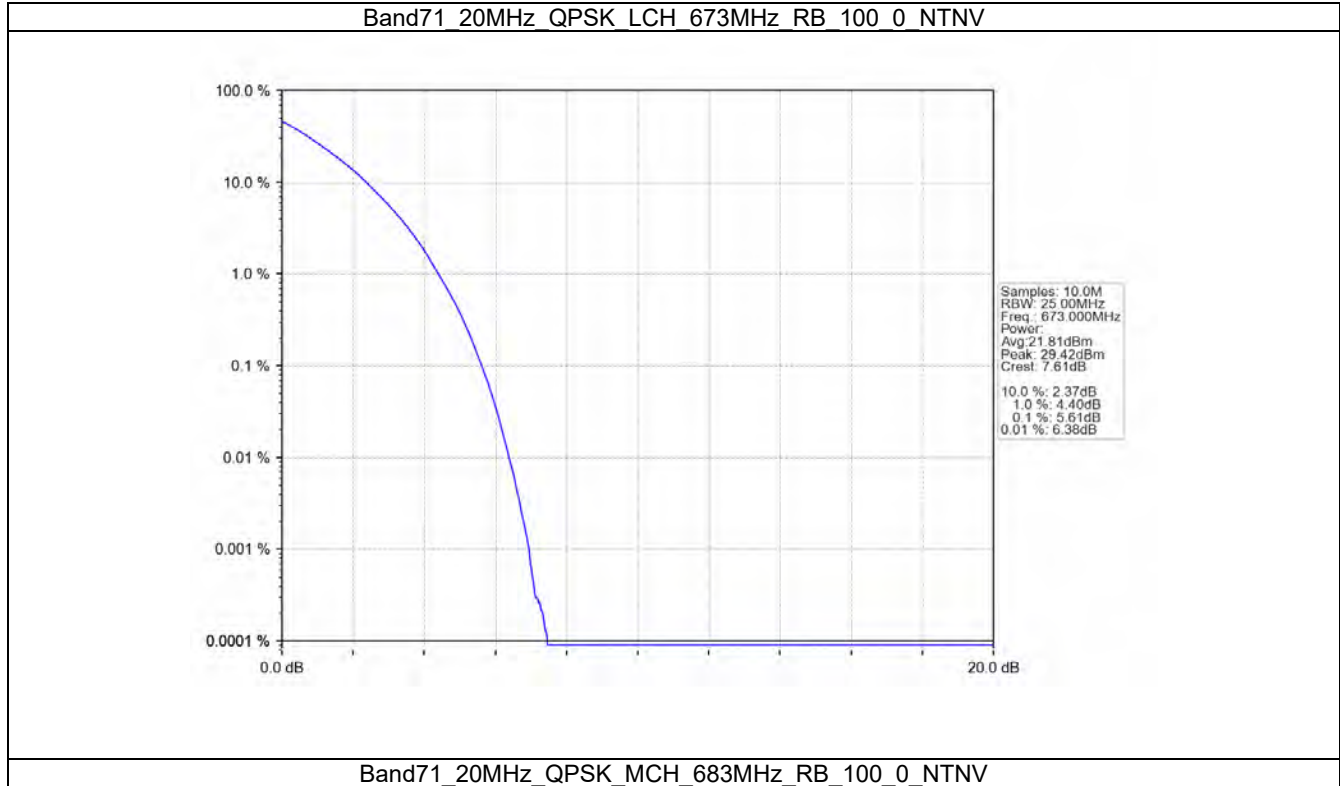
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4.4 B71\_20MHz

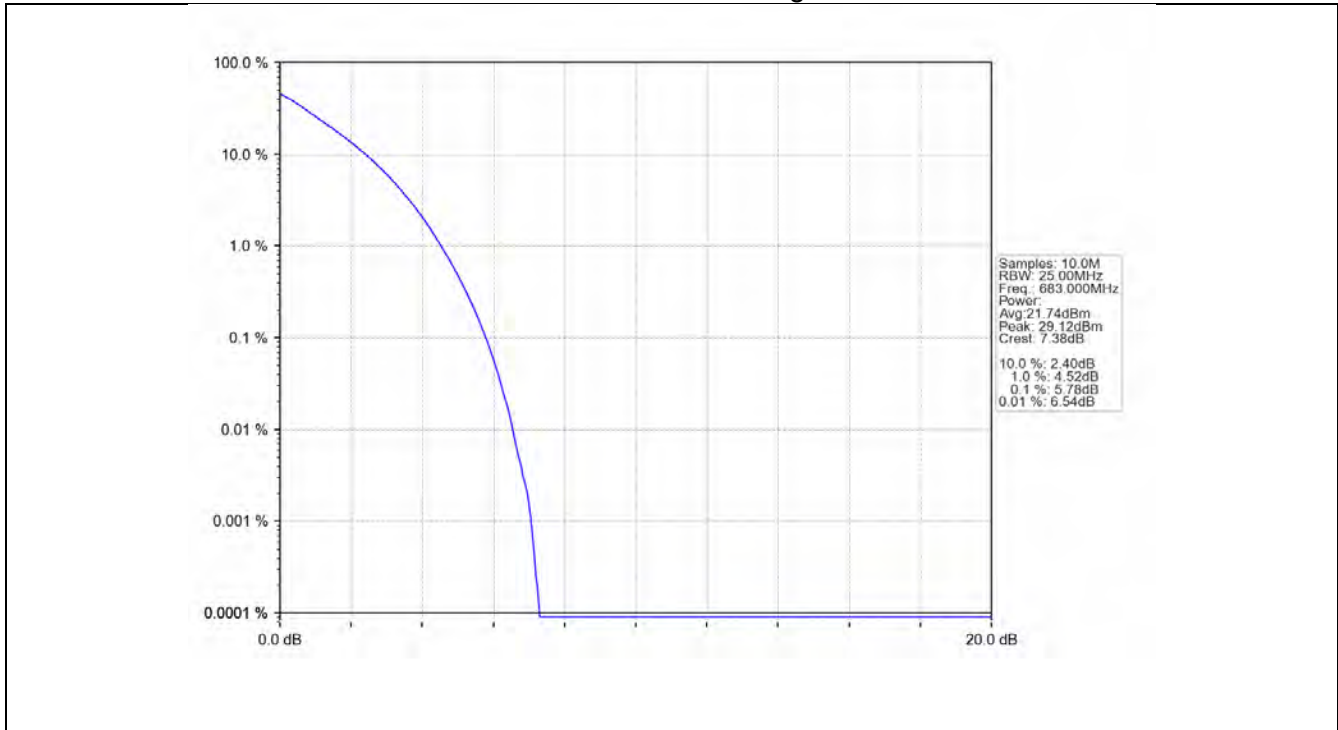
4.4.2 Test Graph



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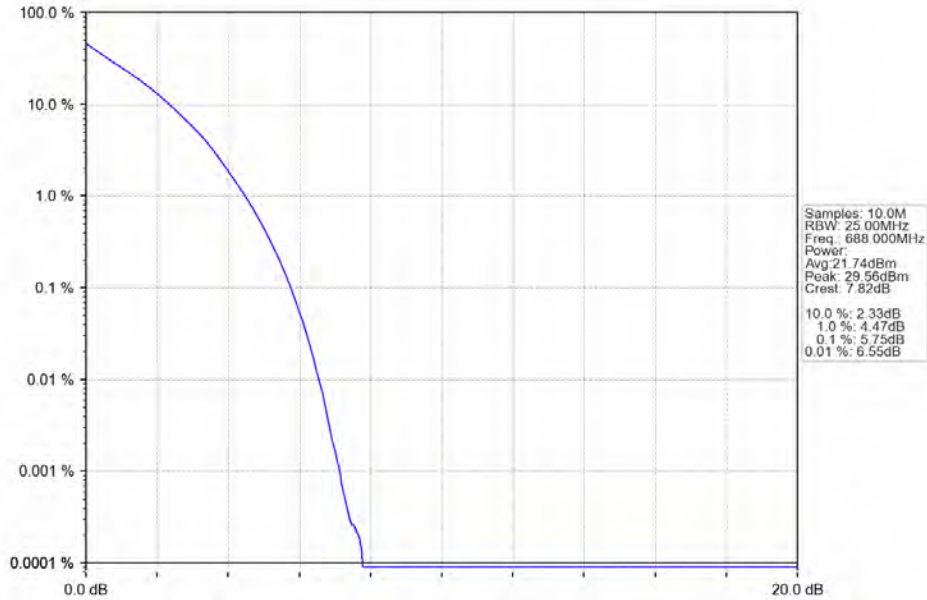


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Band71\_20MHz\_QPSK\_HCH\_688MHz\_RB\_100\_0\_NTNV



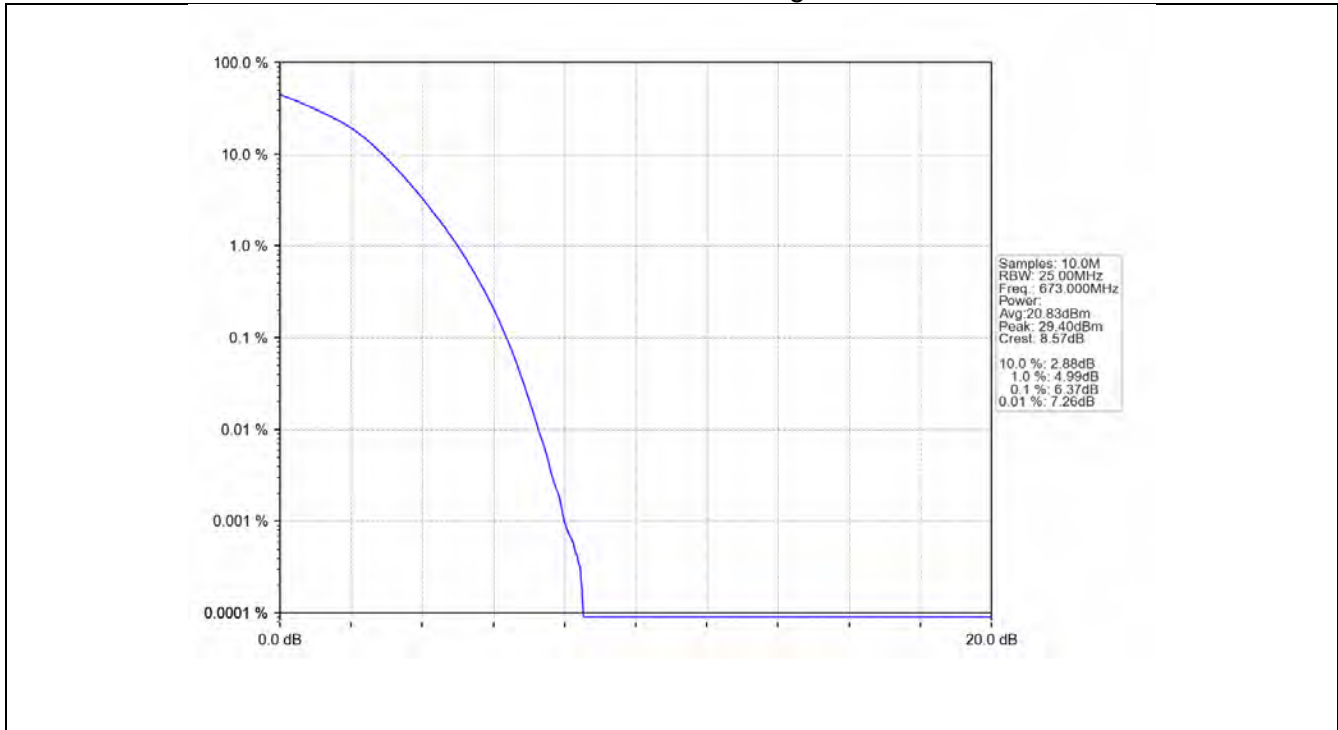
Band71\_20MHz\_16QAM\_LCH\_673MHz\_RB\_100\_0\_NTNV



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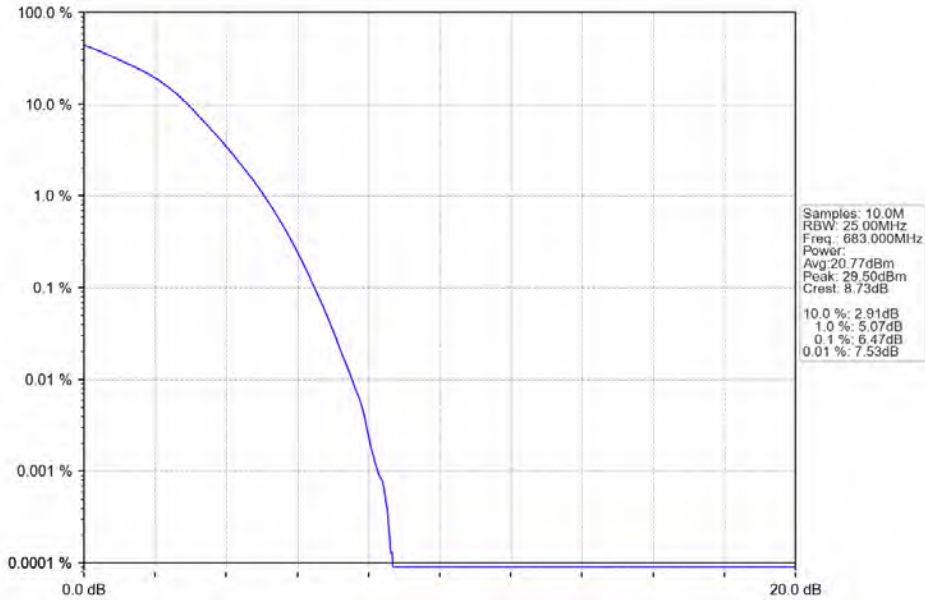
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Band71\_20MHz\_16QAM\_MCH\_683MHz\_RB\_100\_0\_NTNV



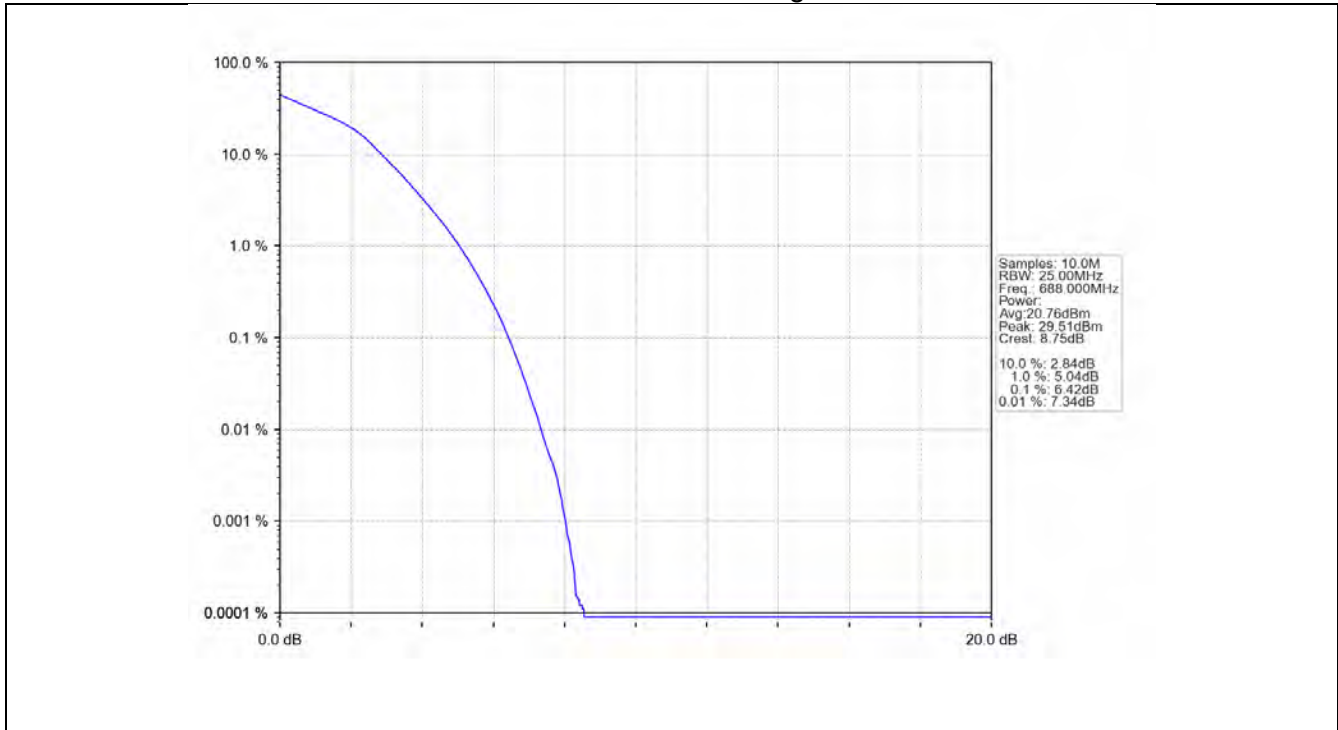
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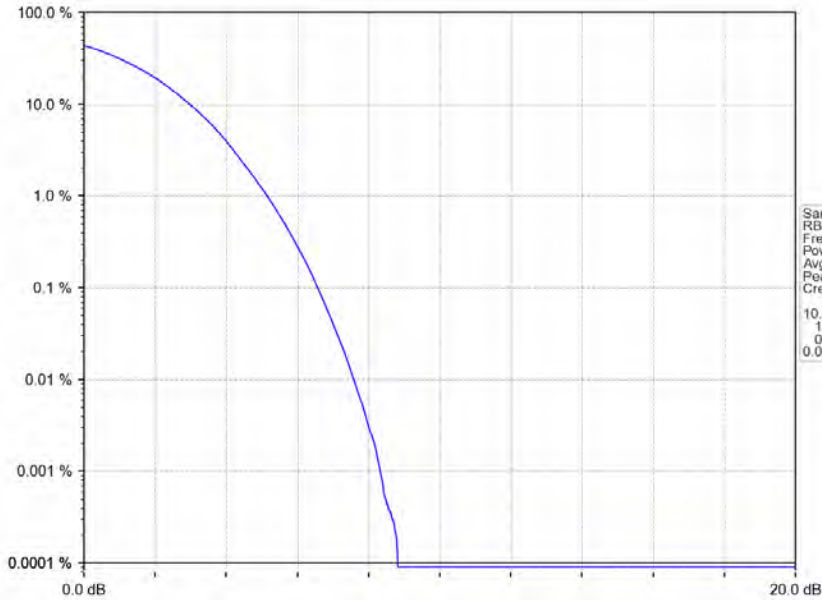


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Band71 20MHz 64QAM LCH 673MHz RB 100 0 NTN



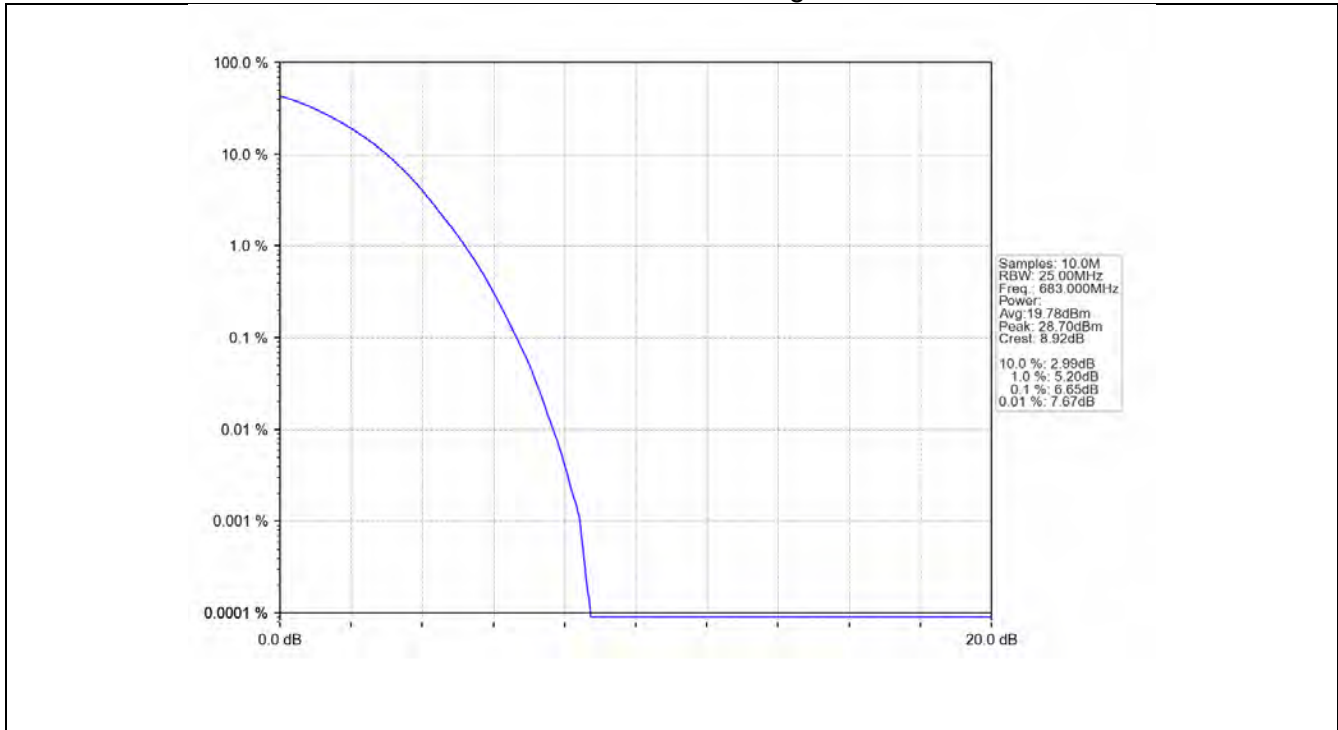
Samples: 10.0M  
 RBW: 25.00MHz  
 Freq: 673.000MHz  
 Power:  
 Avg: 19.90dBm  
 Peak: 28.88dBm  
 Crest: 8.98dB  
 10.0 %: 2.97dB  
 1.0 %: 5.15dB  
 0.1 %: 6.57dB  
 0.01 %: 7.58dB

Band71 20MHz 64QAM MCH 683MHz RB 100 0 NTN



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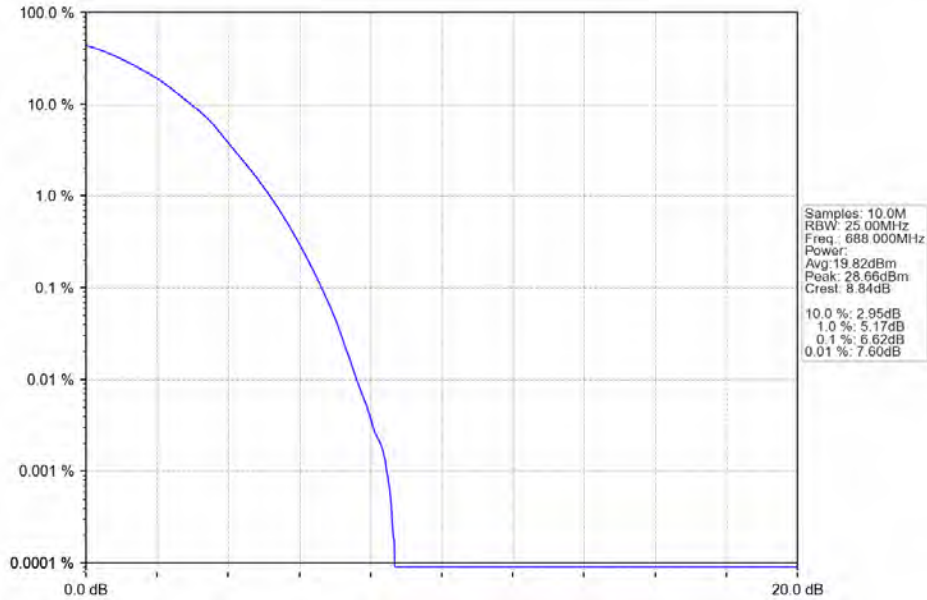


Report No.: SUCR240200003402

Rev.: 01

Page: 133 of 166

Band71 20MHz\_64QAM\_HCH\_688MHz\_RB\_100\_0\_NTNV



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## 5. Spurious Emission & Band Edges

### 5.1 B71\_5MHz

#### 5.1.1 Test Result

Band: 71 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	665.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	680.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	695.5		24	0	Refer To Test Graph	
		25	0	Refer To Test Graph		Pass

### 5.2 B71\_10MHz

#### 5.2.1 Test Result

Band: 71 / Bandwidth: 10MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	668	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	680.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	693		49	0	Refer To Test Graph	
		50	0	Refer To Test Graph		Pass



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5.3 B71\_15MHz

5.3.1 Test Result

Band: 71 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	670.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	680.5	1	0	Refer To Test Graph		Pass
	690.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass

5.4 B71\_20MHz

5.4.1 Test Result

Band: 71 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	673	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	683	1	0	Refer To Test Graph		Pass
	688	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass



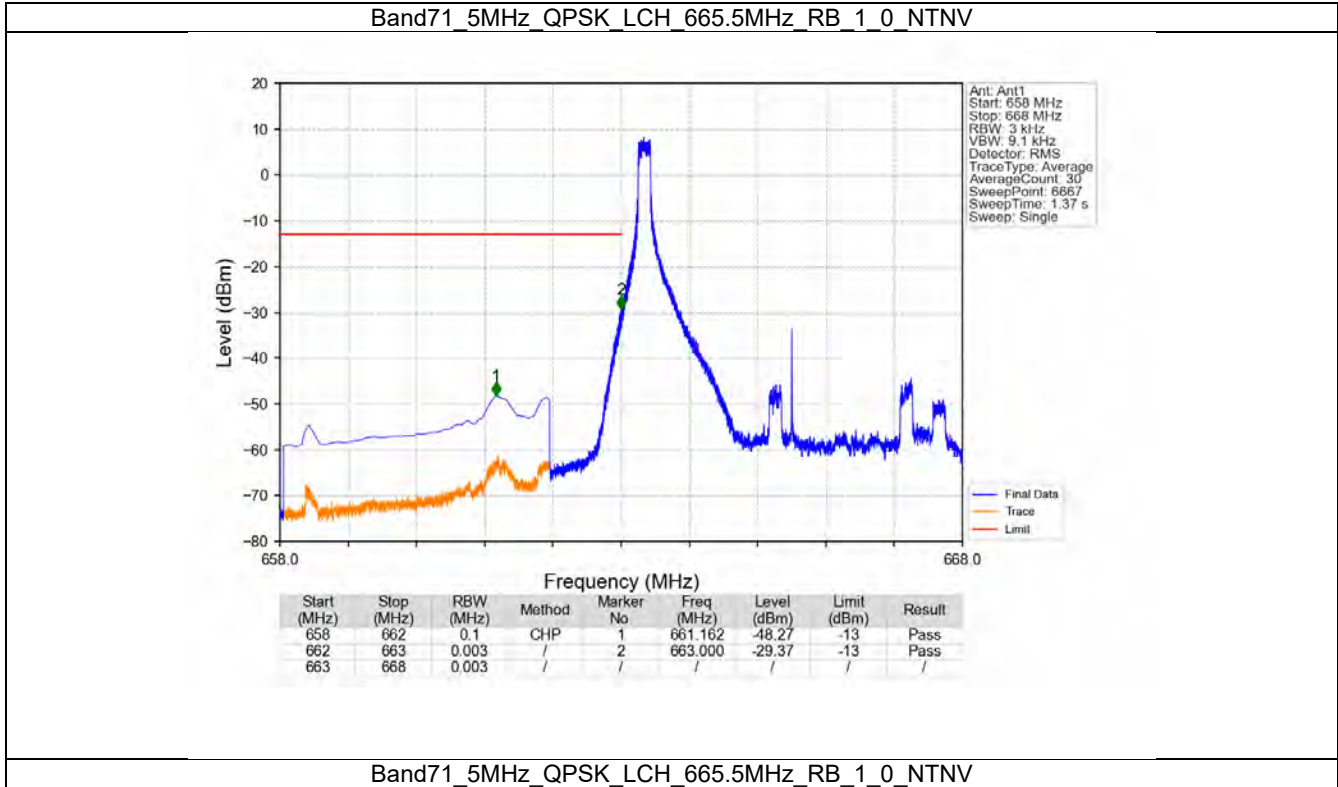
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5.1 B71\_5MHz

5.1.2 Test Graph

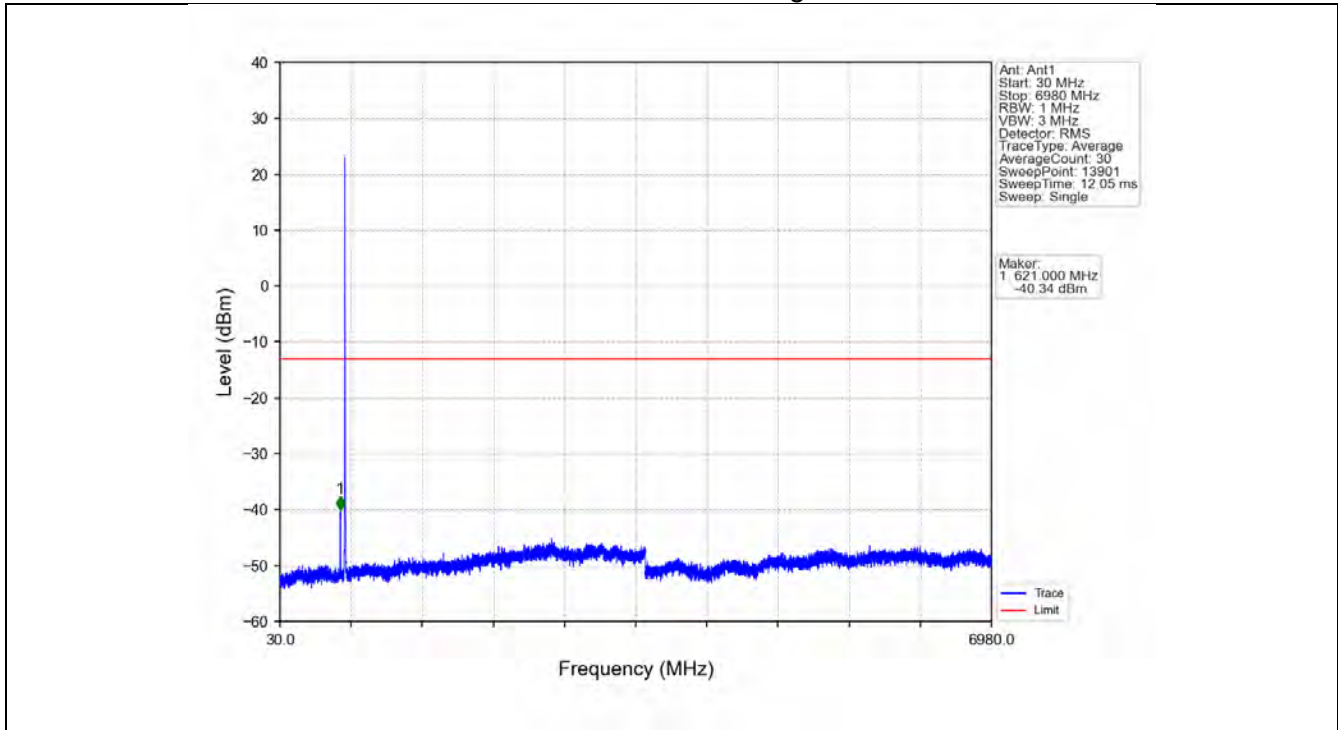


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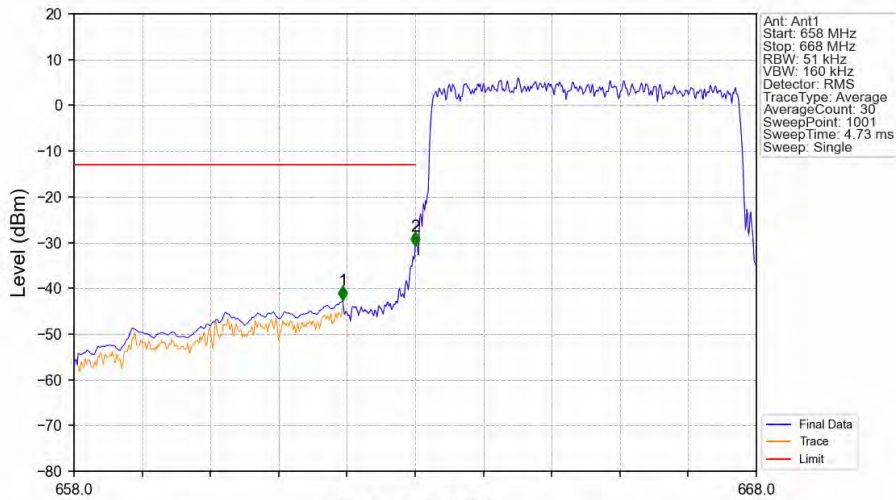


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Band71\_5MHz\_QPSK\_LCH\_665.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
658	662	0.1	CHP	1	661.940	-42.67	-13	Pass
662	663	0.051	/	2	663.000	-30.83	-13	Pass
663	668	0.051	/	/	/	/	/	/

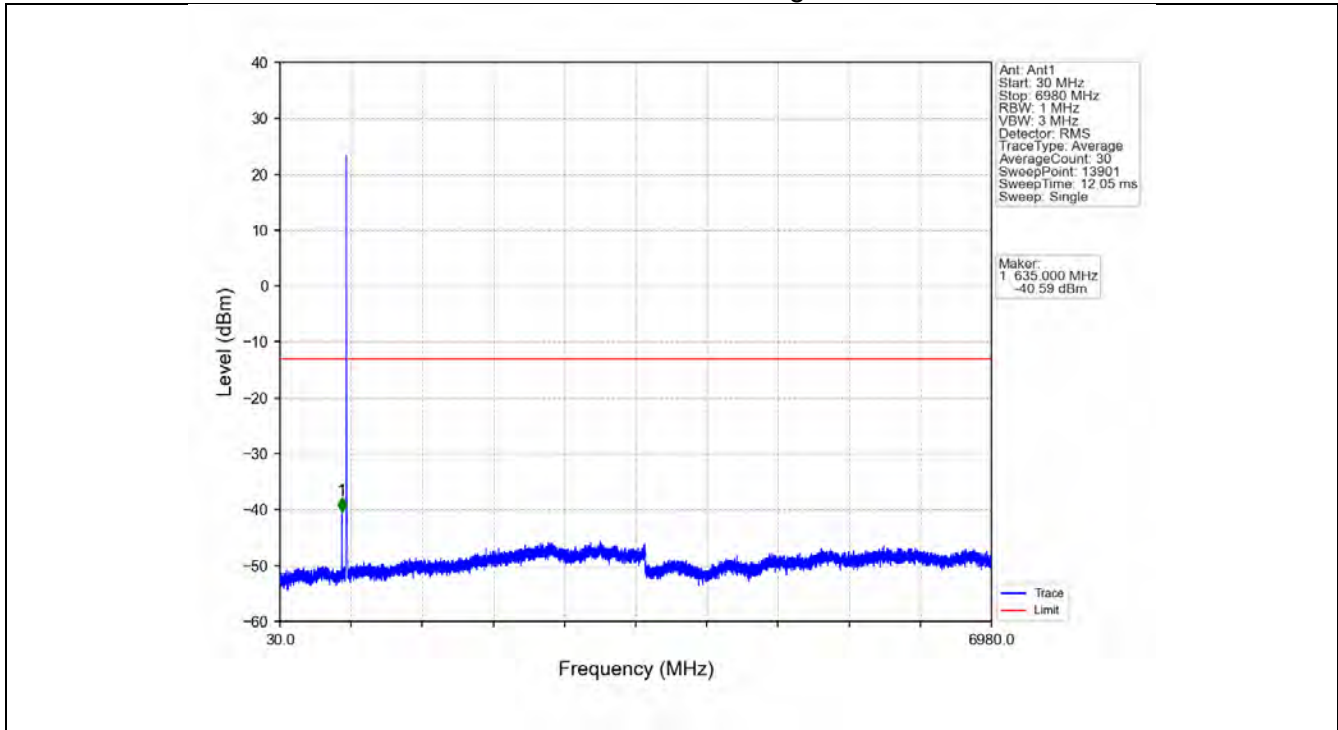
Band71\_5MHz\_QPSK\_MCH\_680.5MHz\_RB\_1\_0\_NTNV



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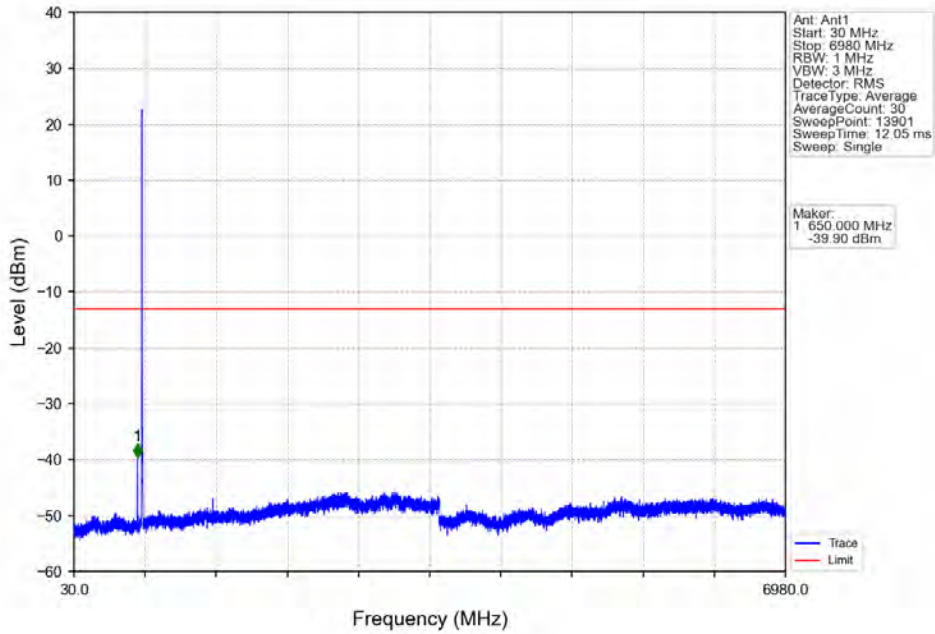


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Band71\_5MHz\_QPSK\_HCH\_695.5MHz\_RB\_1\_0\_NTNV



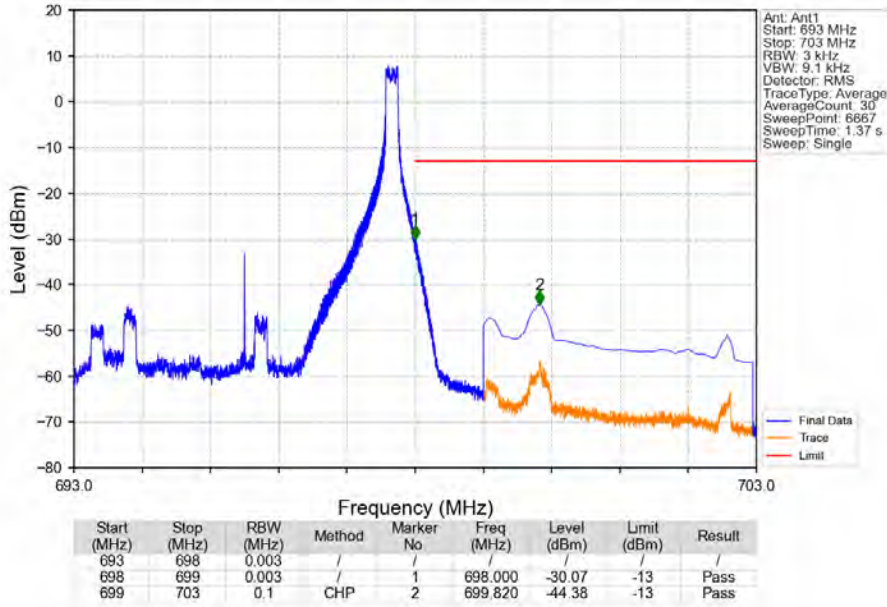
Band71\_5MHz\_QPSK\_HCH\_695.5MHz\_RB\_1\_24\_NTNV



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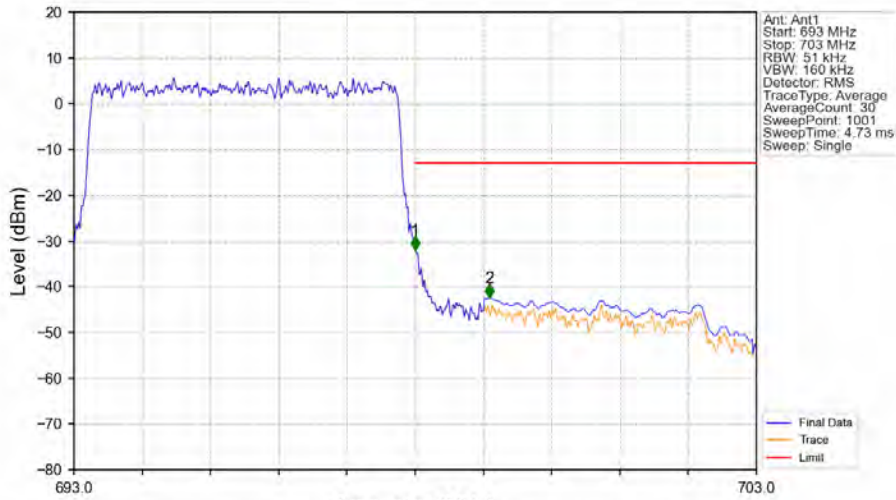


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Band71\_5MHz\_QPSK\_HCH\_695.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
693	698	0.051	/	1	698.000	-31.98	-13	Pass
698	699	0.051	/	1	698.000	-31.98	-13	Pass
699	703	0.1	CHP	2	699.090	-42.44	-13	Pass



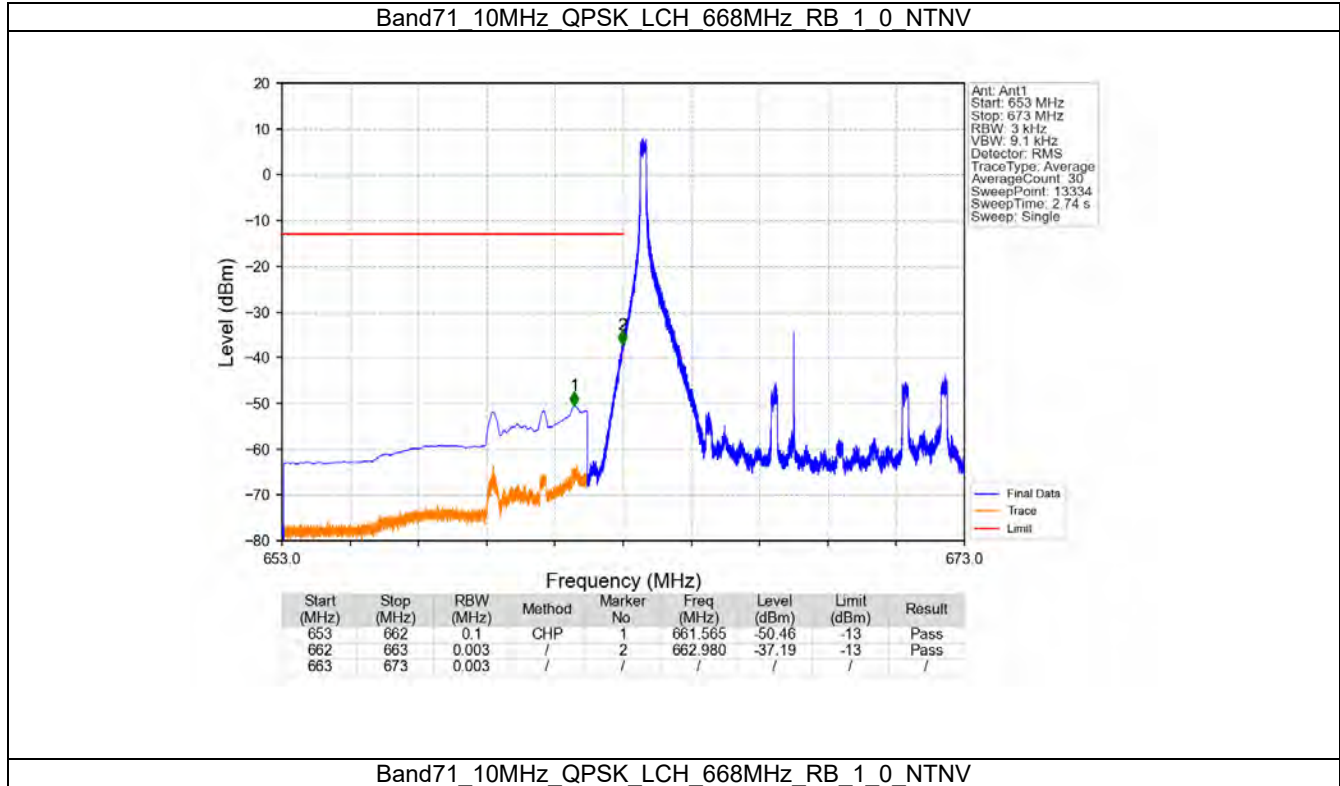
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5.2 B71\_10MHz

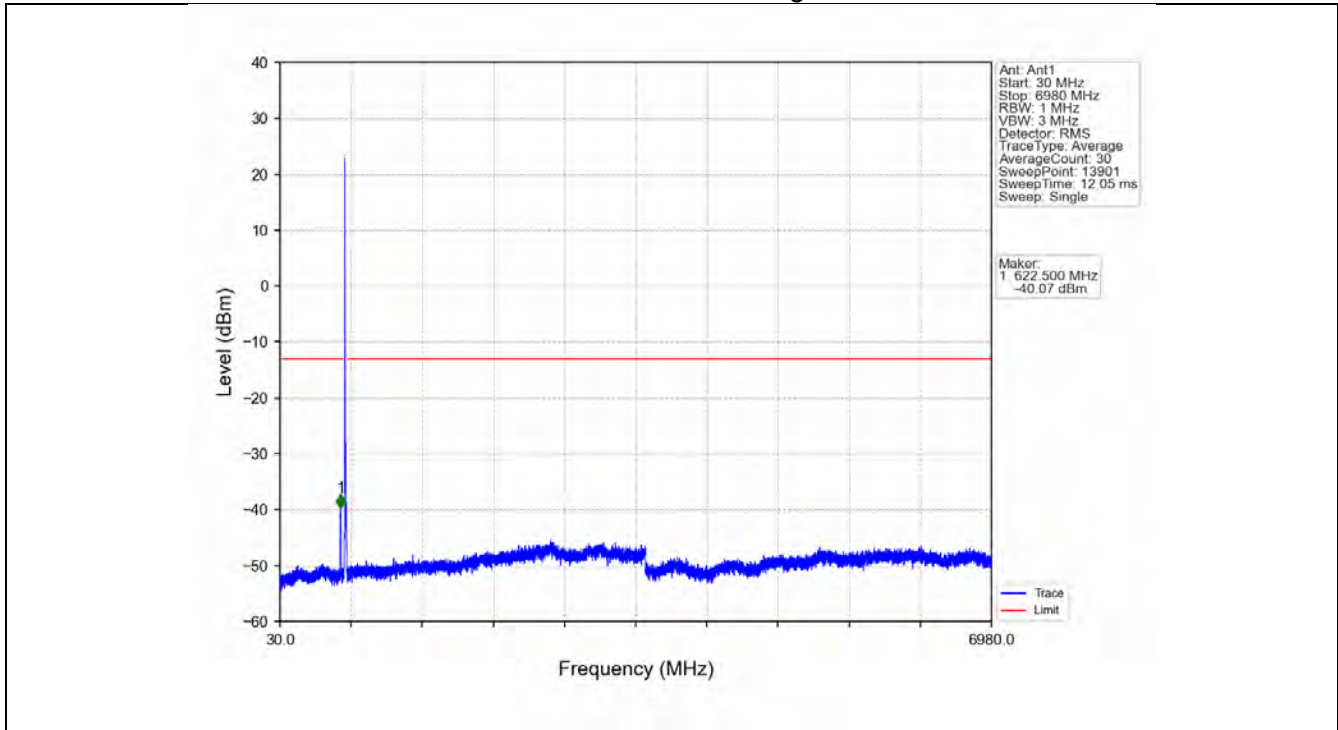
5.2.2 Test Graph



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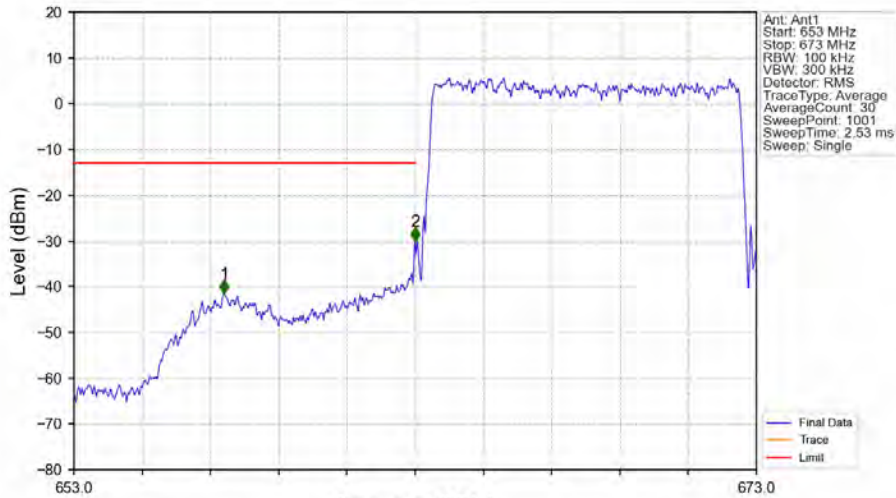
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Band71 10MHz\_QPSK\_LCH\_668MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
653	662	0.1	/	1	657.400	-41.55	-13	Pass
662	663	0.101	/	2	663.000	-30.16	-13	Pass
663	673	0.101	/	/	/	/	/	/

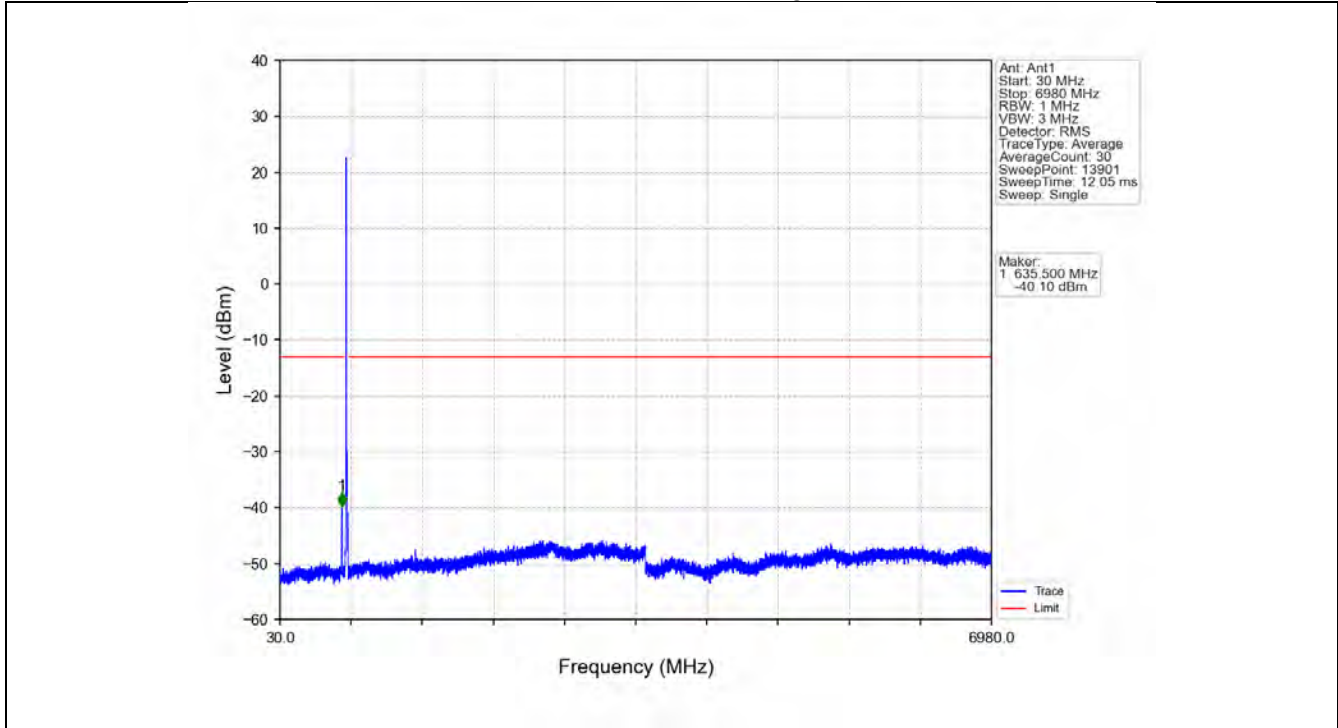
Band71 10MHz\_QPSK\_MCH\_680.5MHz\_RB\_1\_0\_NTNV



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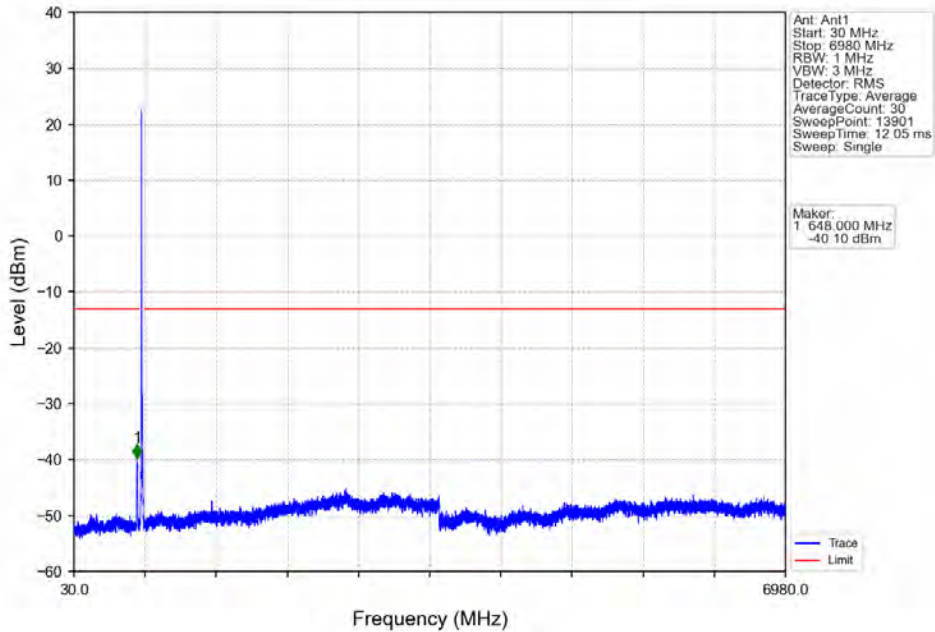


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Band71\_10MHz\_QPSK\_HCH\_693MHz\_RB\_1\_0\_NTNV



Band71\_10MHz\_QPSK\_HCH\_693MHz\_RB\_1\_49\_NTNV

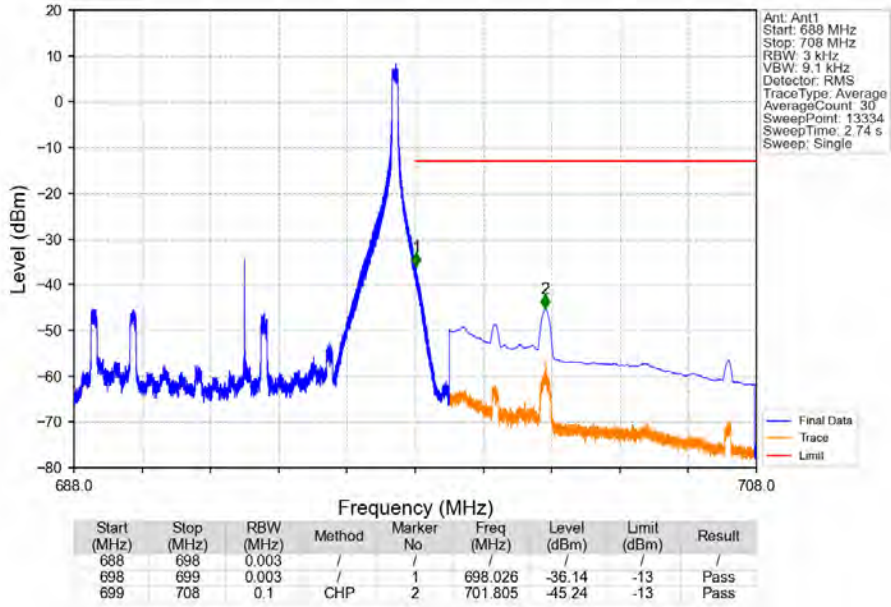


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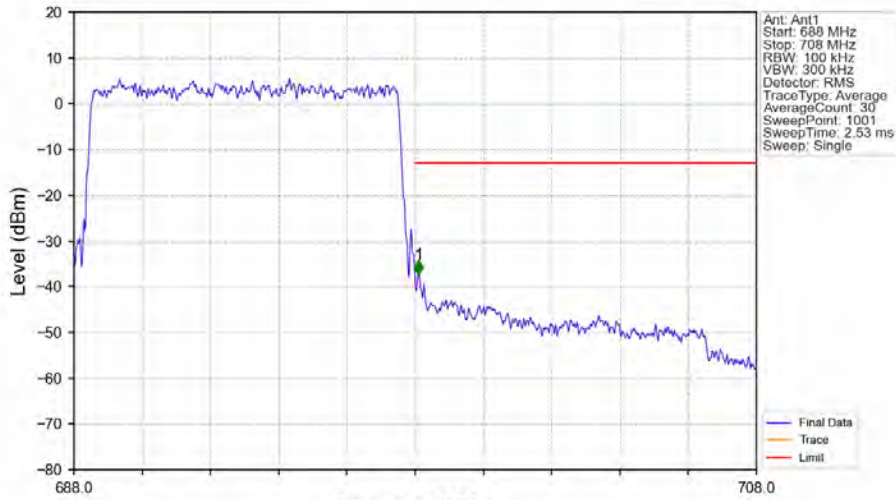


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Band71\_10MHz\_QPSK\_HCH\_693MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
688	698	0.1	/	1	698.100	-37.31	-13	Pass



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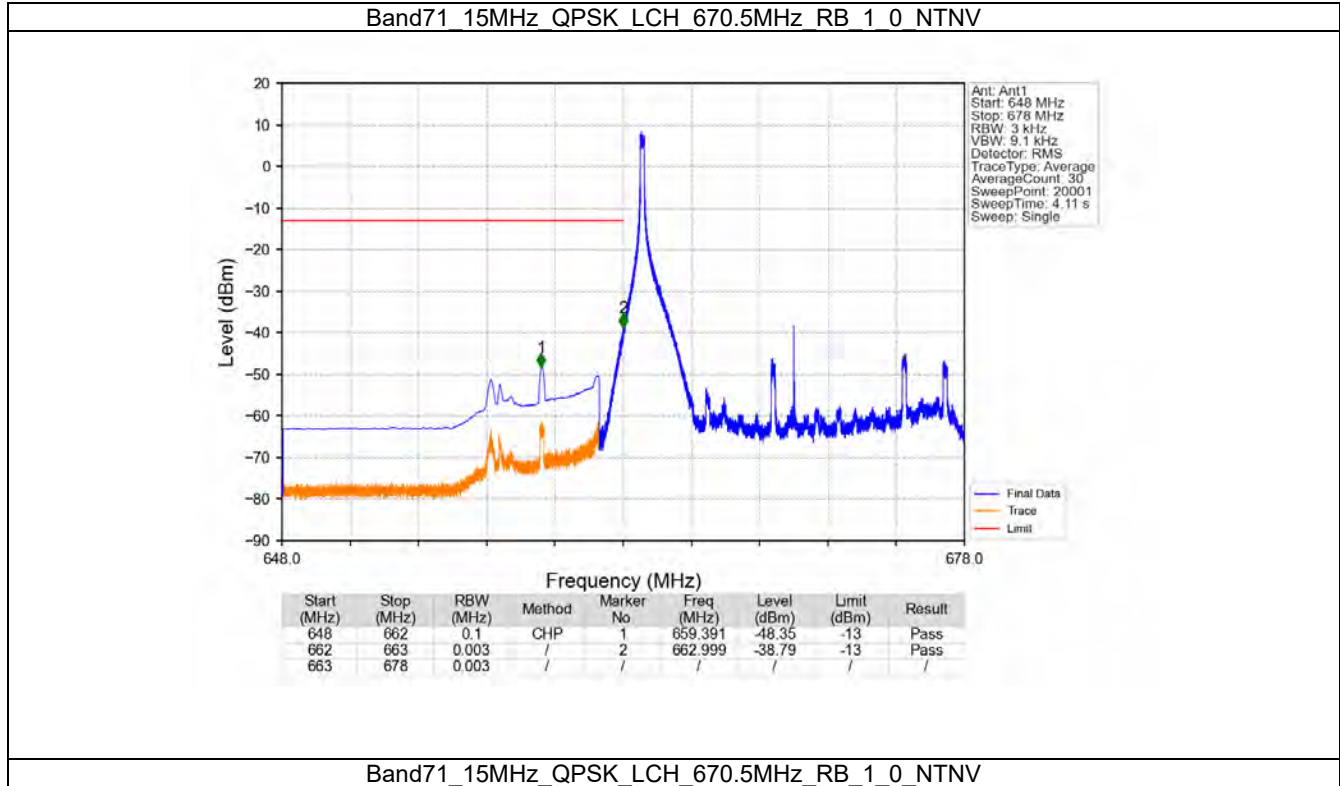
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5.3 B71\_15MHz

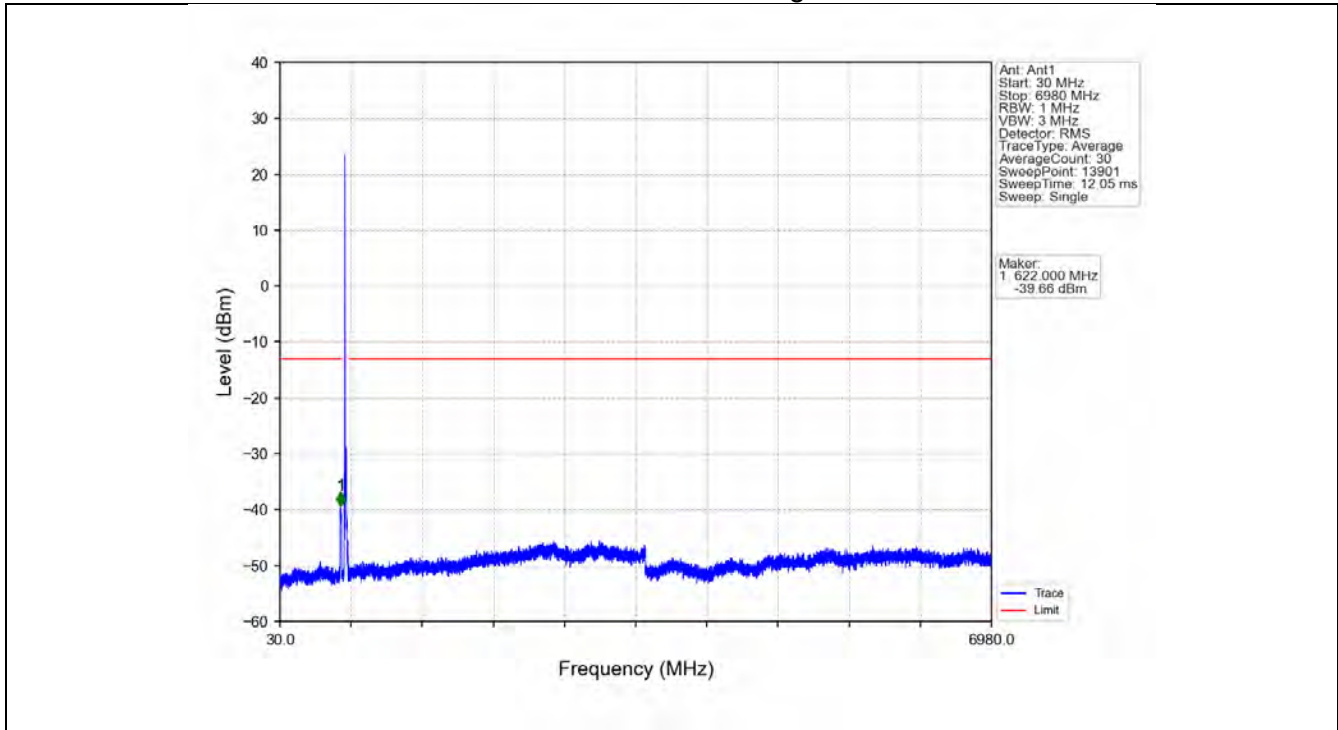
5.3.2 Test Graph



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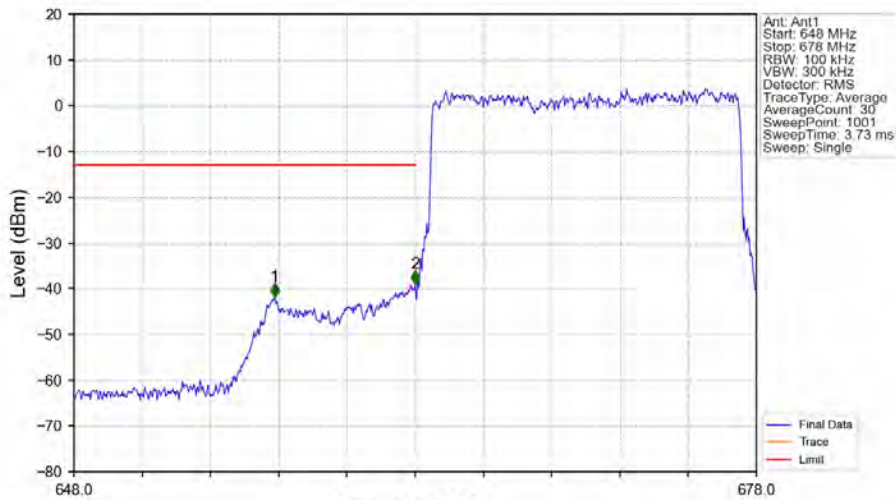


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Band71\_15MHz\_QPSK\_LCH\_670.5MHz\_RB\_75\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
648	662	0.1	/	1	656.820	-41.82	-13	Pass
662	663	0.149	/	2	663.000	-39.02	-13	Pass
663	678	0.149	/	/	/	/	/	/

Band71\_15MHz\_QPSK\_MCH\_680.5MHz\_RB\_1\_0\_NTNV

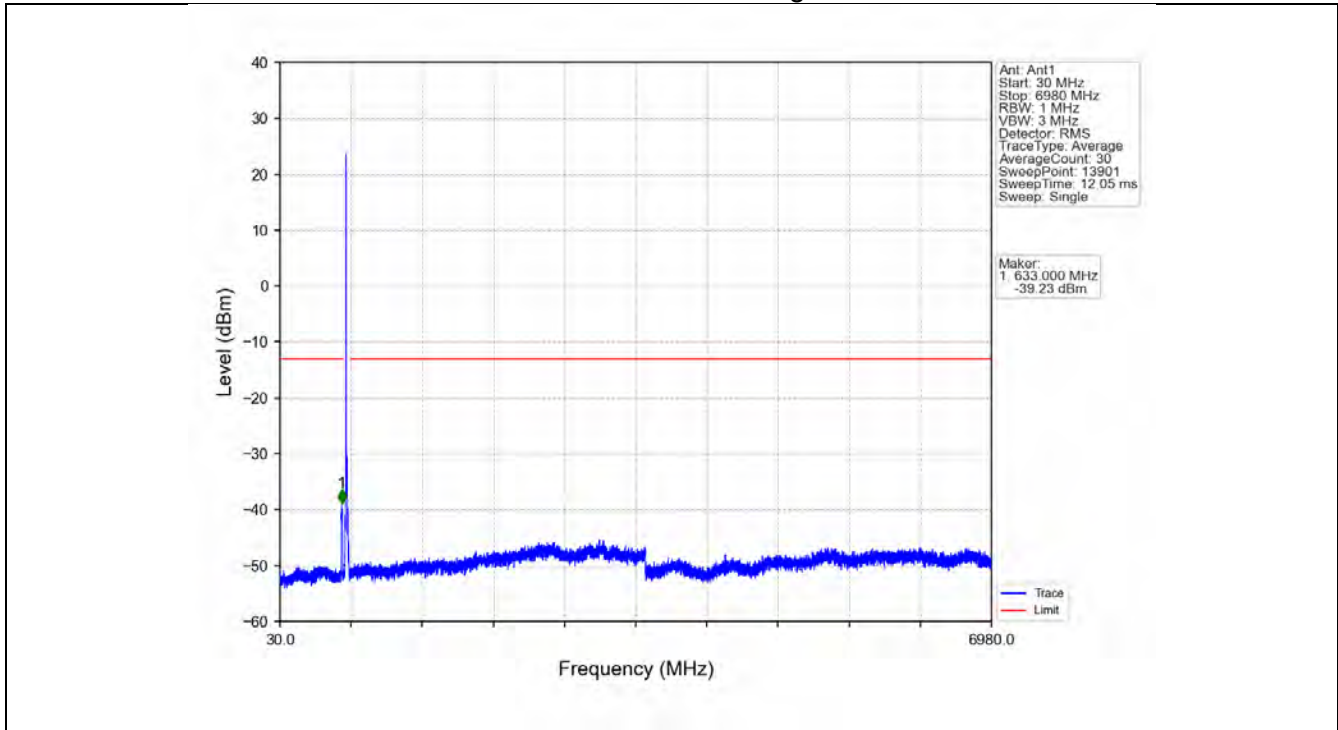


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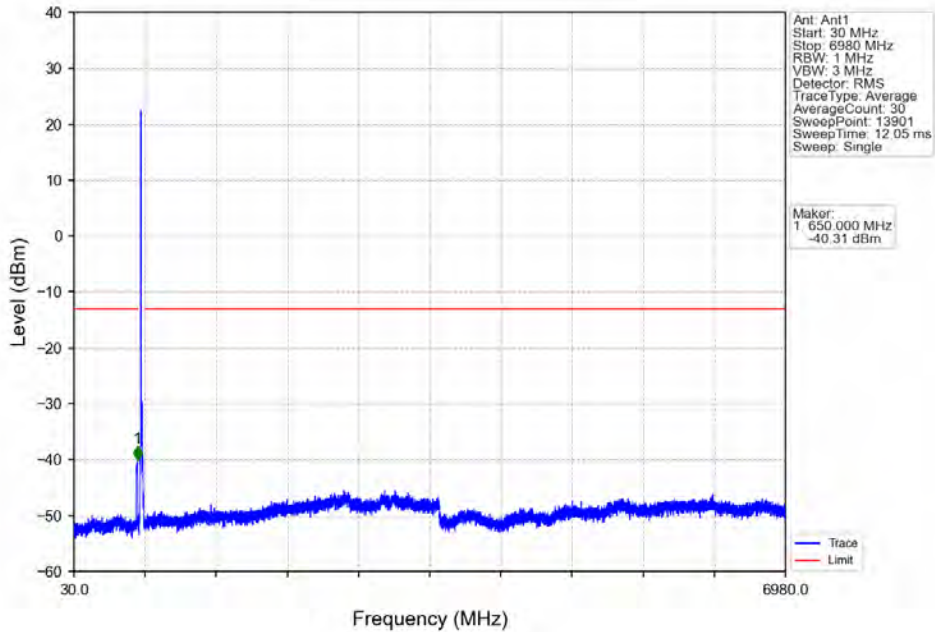


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Band71\_15MHz\_QPSK\_HCH\_690.5MHz\_RB\_1\_0\_NTNV



Band71\_15MHz\_QPSK\_HCH\_690.5MHz\_RB\_1\_74\_NTNV

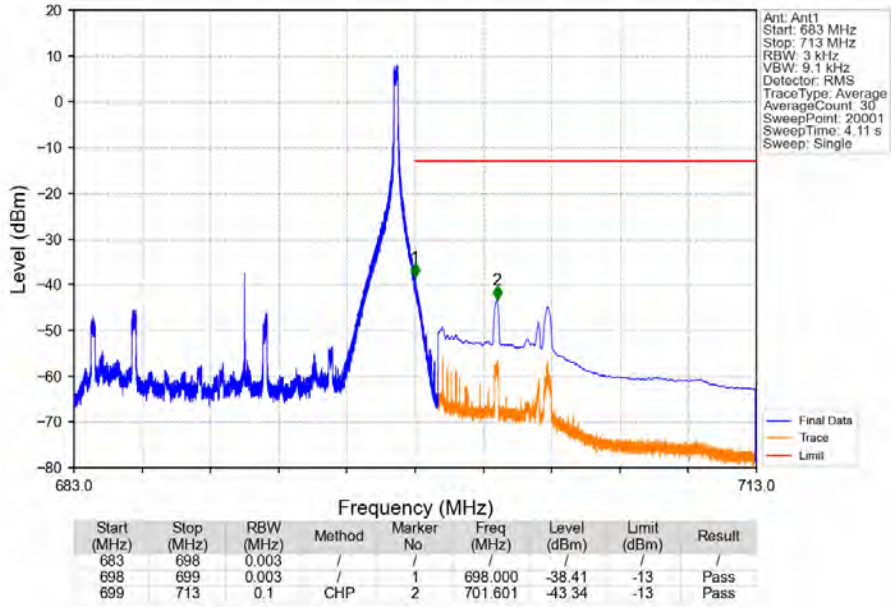


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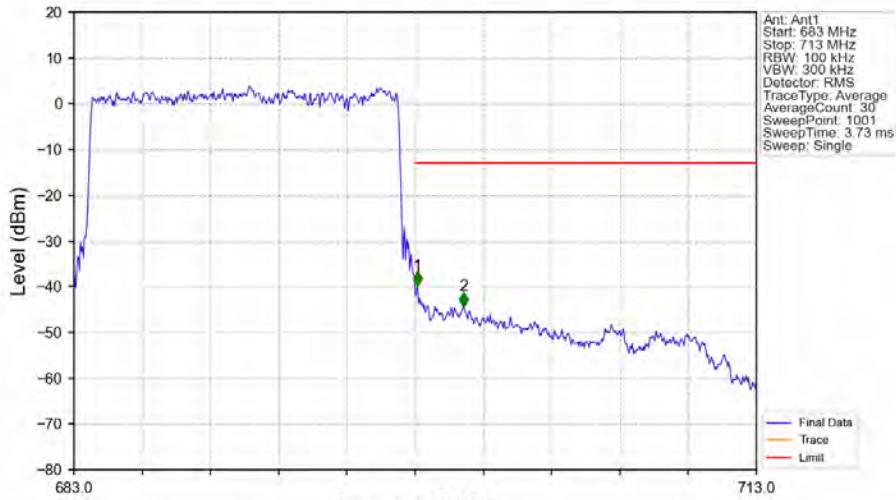


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Band71\_15MHz\_QPSK\_HCH\_690.5MHz\_RB\_75\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
683	698	0.149	/	1	698.090	-39.78	-13	Pass
698	699	0.149	/	2	700.130	-44.30	-13	Pass
699	713	0.1	/					



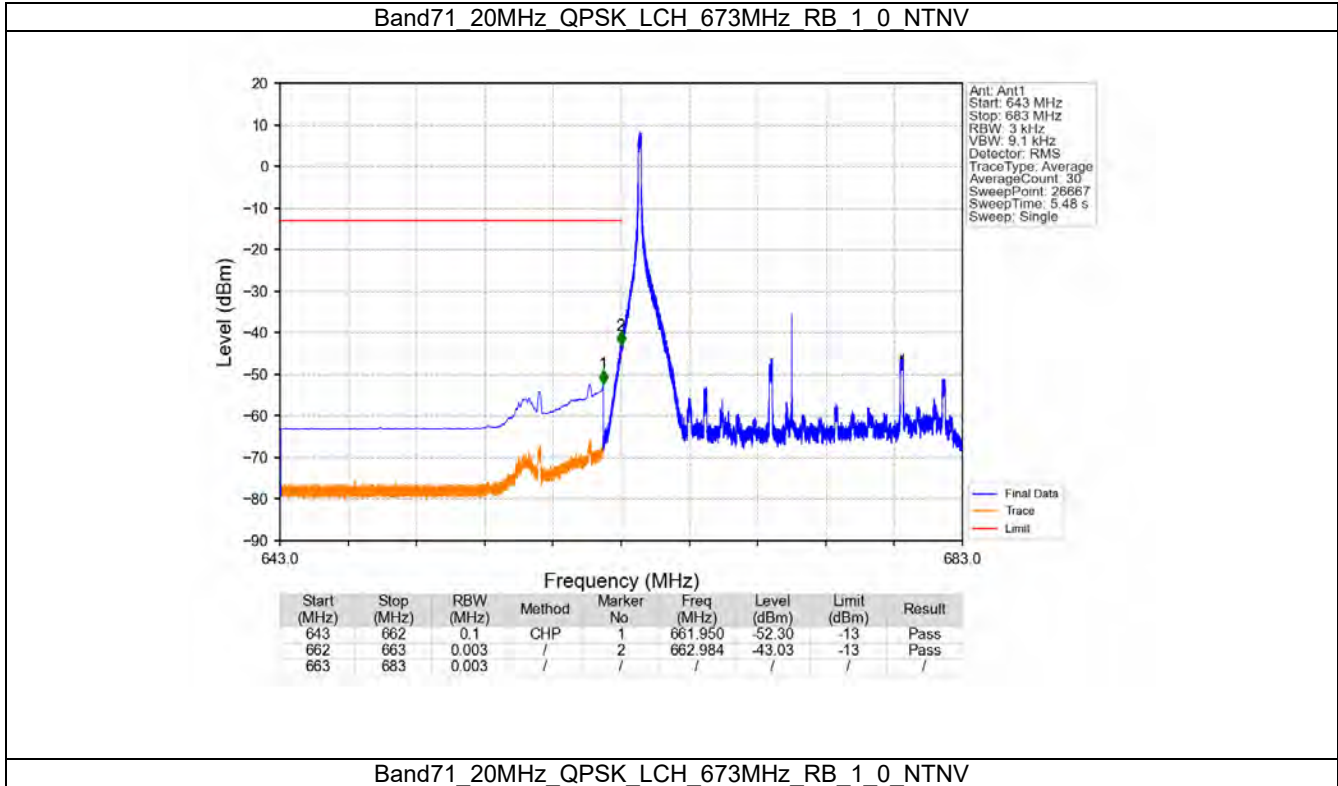
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5.4 B71\_20MHz

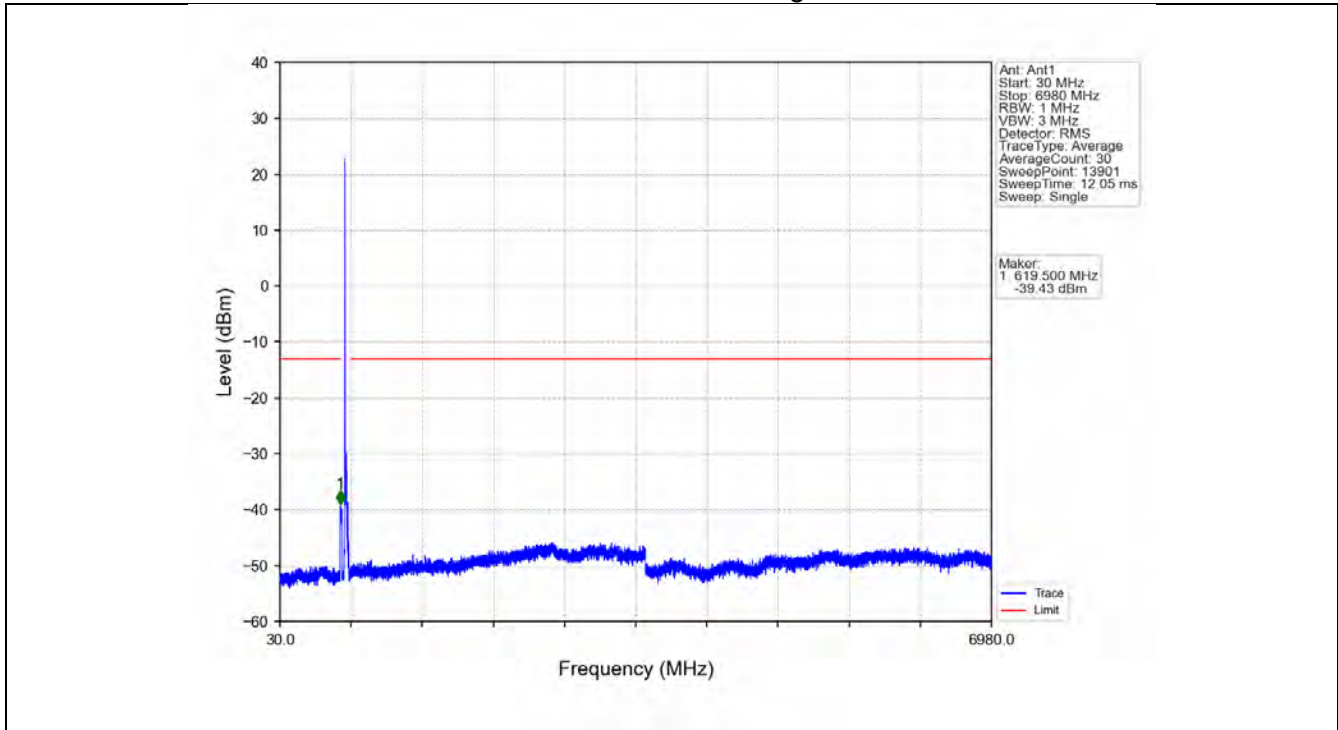
5.4.2 Test Graph



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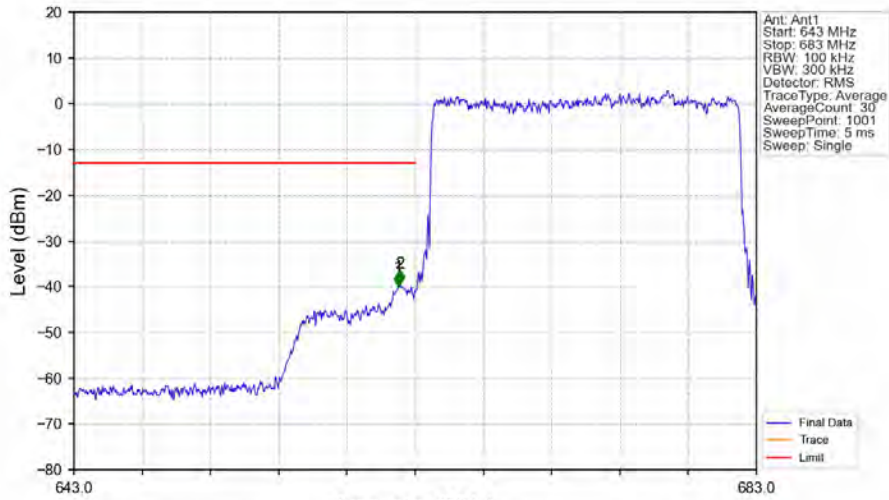


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Band71\_20MHz\_QPSK\_LCH\_673MHz\_RB\_100\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
643	662	0.1	/	1	662.000	-39.98	-13	Pass
662	663	0.197	/	2	662.120	-39.36	-13	Pass
663	683	0.197	/	/	/	/	/	/

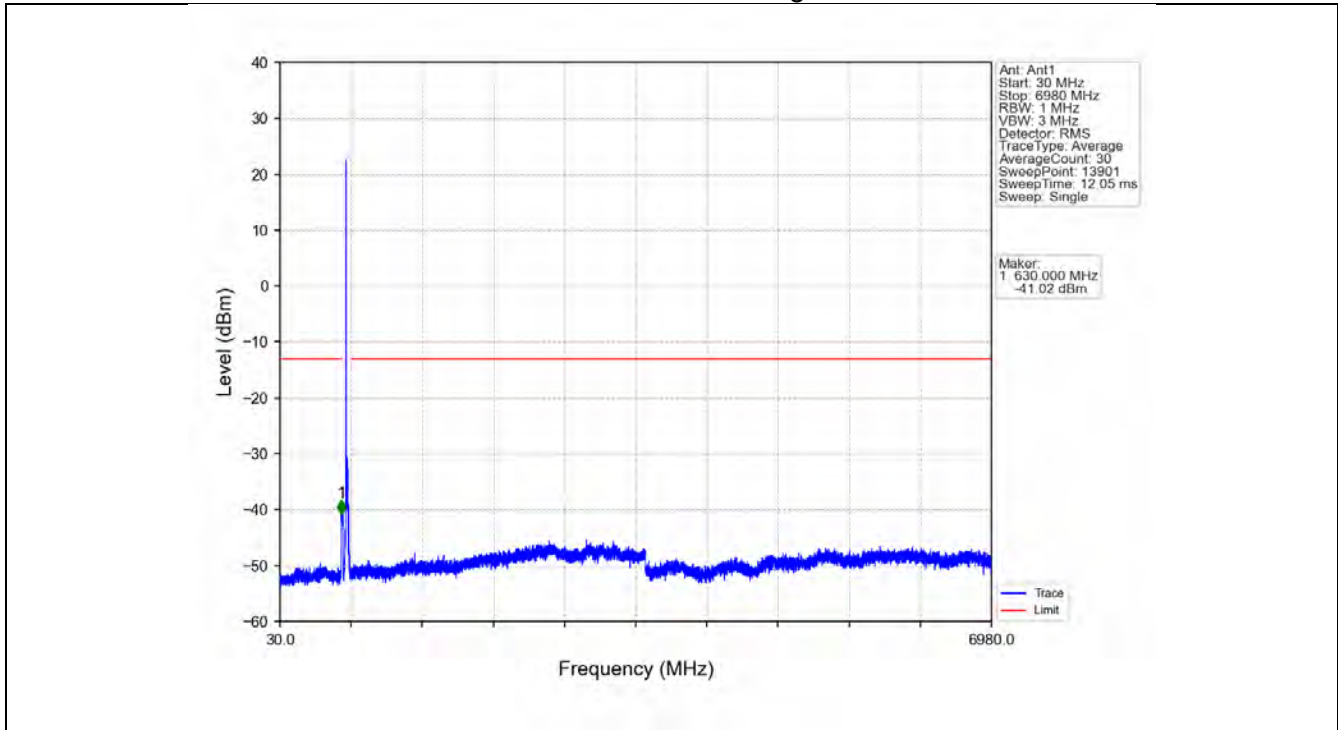
Band71\_20MHz\_QPSK\_MCH\_683MHz\_RB\_1\_0\_NTNV



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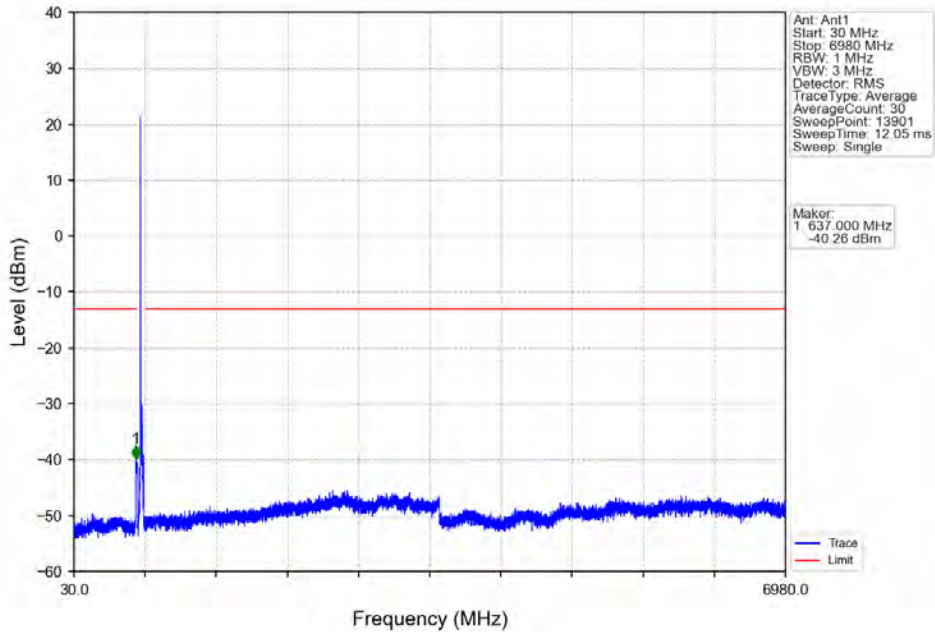
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Band71\_20MHz\_QPSK\_HCH\_688MHz\_RB\_1\_0\_NTNV



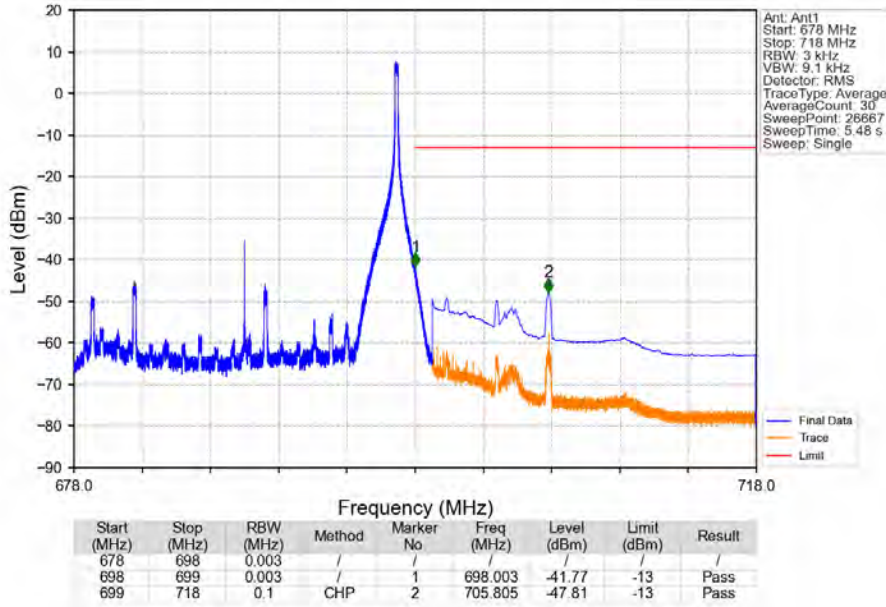
Band71\_20MHz\_QPSK\_HCH\_688MHz\_RB\_1\_99\_NTNV



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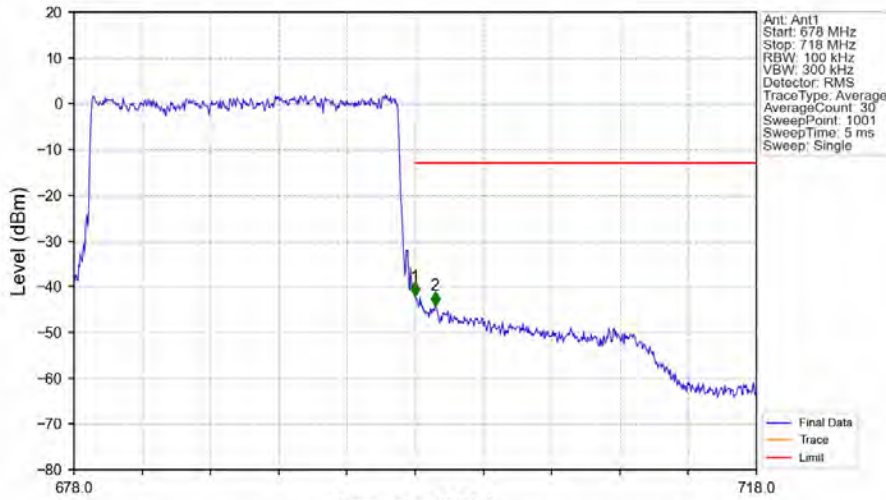


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Band71\_20MHz\_QPSK\_HCH\_688MHz\_RB\_100\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
678	698	0.198	/	/	/	/	/	/
698	699	0.198	/	1	698.000	-42.09	-13	Pass
699	718	0.1	/	2	699.160	-44.14	-13	Pass



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### 6. Field Strength of Spurious Radiation

Test Band = LTE\_71  
 Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1327	59.93	-53.89	25.76	-63.46	-13.00	50.46	Horizontal
2	1991	98.33	-52.62	26.67	-22.88	-13.00	9.88	Horizontal
3	3318.5	74.02	-49.72	30.33	-40.63	-13.00	27.63	Horizontal
4	3982	58.70	-47.95	31.03	-53.48	-13.00	40.48	Horizontal
5	4645	62.01	-46.15	32.01	-47.39	-13.00	34.39	Horizontal
6	5972	59.02	-44.92	34.44	-46.72	-13.00	33.72	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1991	99.19	-52.62	26.67	-22.02	-13.00	9.02	Vertical
2	2528.5	54.40	-51.03	28.17	-63.72	-13.00	50.72	Vertical
3	3318	70.03	-49.72	30.34	-44.61	-13.00	31.61	Vertical
4	3982.5	61.02	-47.95	31.03	-51.16	-13.00	38.16	Vertical
5	4645.5	56.96	-46.14	32.01	-52.43	-13.00	39.43	Vertical
6	5972.5	56.45	-44.91	34.45	-49.27	-13.00	36.27	Vertical



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Report No.: SUCR240200003402
Rev.: 01
Page: 165 of 166

Test Band = LTE\_71
Test Channel = MCH

Table with 9 columns: NO., Freq. [MHz], Reading [dBµV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Polarity. Contains 6 rows of test data.

Table with 9 columns: NO., Freq. [MHz], Reading [dBµV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Polarity. Contains 6 rows of test data.



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Test Band = LTE\_71  
 Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2037	103.64	-52.26	27.02	-16.86	-13.00	3.86	Horizontal
2	3395.5	71.60	-49.70	29.79	-43.57	-13.00	30.57	Horizontal
3	4074	78.01	-48.36	30.80	-34.81	-13.00	21.81	Horizontal
4	6111.5	81.17	-44.11	34.45	-23.75	-13.00	10.75	Horizontal
5	7470	60.08	-42.73	36.66	-41.25	-13.00	28.25	Horizontal
6	8149	58.51	-42.05	37.60	-41.20	-13.00	28.20	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2037.5	101.62	-52.25	27.03	-18.86	-13.00	5.86	Vertical
2	3395	64.86	-49.70	29.79	-50.31	-13.00	37.31	Vertical
3	4075	70.08	-48.36	30.80	-42.74	-13.00	29.74	Vertical
4	4754	56.47	-45.08	32.22	-51.65	-13.00	38.65	Vertical
5	6111.5	56.10	-44.11	34.45	-48.82	-13.00	35.82	Vertical
6	8829	53.14	-41.16	38.52	-44.76	-13.00	31.76	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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