

1. Effective (Isotropic) Radiated Power Output Data

1.1 B71_5MHz_ERP

1.1.1 Test Result

Band: 71 / Bandwidth: 5MHz / NTV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	665.5	1	0	22.78	-3.59	17.04	<=34.77	Pass		
			13	22.82	-3.59	17.08	<=34.77	Pass		
			24	22.77	-3.59	17.03	<=34.77	Pass		
		12	0	21.75	-3.59	16.01	<=34.77	Pass		
			6	21.81	-3.59	16.07	<=34.77	Pass		
			13	21.74	-3.59	16.00	<=34.77	Pass		
		25	0	21.75	-3.59	16.01	<=34.77	Pass		
		680.5	1	0	22.19	-3.59	16.45	<=34.77	Pass	
				13	22.32	-3.59	16.58	<=34.77	Pass	
	24			22.20	-3.59	16.46	<=34.77	Pass		
	12		0	21.26	-3.59	15.52	<=34.77	Pass		
			6	21.28	-3.59	15.54	<=34.77	Pass		
			13	21.24	-3.59	15.50	<=34.77	Pass		
	25		0	21.28	-3.59	15.54	<=34.77	Pass		
	695.5		1	0	22.18	-3.59	16.44	<=34.77	Pass	
				13	22.32	-3.59	16.58	<=34.77	Pass	
		24		22.26	-3.59	16.52	<=34.77	Pass		
		12	0	21.34	-3.59	15.60	<=34.77	Pass		
			6	21.31	-3.59	15.57	<=34.77	Pass		
			13	21.36	-3.59	15.62	<=34.77	Pass		
		25	0	21.37	-3.59	15.63	<=34.77	Pass		
		16QAM	665.5	1	0	21.44	-3.59	15.70	<=34.77	Pass
					13	21.41	-3.59	15.67	<=34.77	Pass
	24				21.32	-3.59	15.58	<=34.77	Pass	
	12			0	20.23	-3.59	14.49	<=34.77	Pass	
				6	20.30	-3.59	14.56	<=34.77	Pass	
				13	20.25	-3.59	14.51	<=34.77	Pass	
25	0			20.23	-3.59	14.49	<=34.77	Pass		
680.5	1			0	21.38	-3.59	15.64	<=34.77	Pass	
				13	21.52	-3.59	15.78	<=34.77	Pass	
			24	21.40	-3.59	15.66	<=34.77	Pass		
	12		0	20.33	-3.59	14.59	<=34.77	Pass		
			6	20.33	-3.59	14.59	<=34.77	Pass		
			13	20.32	-3.59	14.58	<=34.77	Pass		
	25		0	20.25	-3.59	14.51	<=34.77	Pass		
	695.5		1	0	21.02	-3.59	15.28	<=34.77	Pass	
				13	21.12	-3.59	15.38	<=34.77	Pass	
24				21.07	-3.59	15.33	<=34.77	Pass		
12			0	20.35	-3.59	14.61	<=34.77	Pass		
			6	20.32	-3.59	14.58	<=34.77	Pass		
			13	20.35	-3.59	14.61	<=34.77	Pass		
25			0	20.39	-3.59	14.65	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.2 B71_10MHz_ERP

1.2.1 Test Result

Band: 71 / Bandwidth: 10MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	668	1	0	22.78	-3.59	17.04	<=34.77	Pass
			25	22.54	-3.59	16.80	<=34.77	Pass
			49	22.30	-3.59	16.56	<=34.77	Pass
		25	0	21.35	-3.59	15.61	<=34.77	Pass
			13	21.40	-3.59	15.66	<=34.77	Pass
			25	21.50	-3.59	15.76	<=34.77	Pass
	50	0	21.45	-3.59	15.71	<=34.77	Pass	
	680.5	1	0	22.21	-3.59	16.47	<=34.77	Pass
			25	22.44	-3.59	16.70	<=34.77	Pass
			49	22.28	-3.59	16.54	<=34.77	Pass
		25	0	21.44	-3.59	15.70	<=34.77	Pass
			13	21.35	-3.59	15.61	<=34.77	Pass
			25	21.34	-3.59	15.60	<=34.77	Pass
	50	0	21.40	-3.59	15.66	<=34.77	Pass	
	693	1	0	22.19	-3.59	16.45	<=34.77	Pass
			25	22.48	-3.59	16.74	<=34.77	Pass
			49	22.29	-3.59	16.55	<=34.77	Pass
		25	0	21.31	-3.59	15.57	<=34.77	Pass
13			21.32	-3.59	15.58	<=34.77	Pass	
25			21.27	-3.59	15.53	<=34.77	Pass	
50	0	21.28	-3.59	15.54	<=34.77	Pass		
16QAM	668	1	0	21.21	-3.59	15.47	<=34.77	Pass
			25	21.48	-3.59	15.74	<=34.77	Pass
			49	21.26	-3.59	15.52	<=34.77	Pass
		25	0	20.42	-3.59	14.68	<=34.77	Pass
			13	20.42	-3.59	14.68	<=34.77	Pass
			25	20.55	-3.59	14.81	<=34.77	Pass
	50	0	20.45	-3.59	14.71	<=34.77	Pass	
	680.5	1	0	21.33	-3.59	15.59	<=34.77	Pass
			25	21.58	-3.59	15.84	<=34.77	Pass
			49	21.37	-3.59	15.63	<=34.77	Pass
		25	0	20.43	-3.59	14.69	<=34.77	Pass
			13	20.35	-3.59	14.61	<=34.77	Pass
			25	20.34	-3.59	14.60	<=34.77	Pass
	50	0	20.38	-3.59	14.64	<=34.77	Pass	
	693	1	0	21.62	-3.59	15.88	<=34.77	Pass
			25	21.93	-3.59	16.19	<=34.77	Pass
			49	21.71	-3.59	15.97	<=34.77	Pass
		25	0	20.36	-3.59	14.62	<=34.77	Pass
13			20.36	-3.59	14.62	<=34.77	Pass	
25			20.29	-3.59	14.55	<=34.77	Pass	
50	0	20.30	-3.59	14.56	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.3 B71_15MHz_ERP

1.3.1 Test Result

Band: 71 / Bandwidth: 15MHz / NTV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	670.5	1	0	22.59	-3.59	16.85	<=34.77	Pass		
			38	22.27	-3.59	16.53	<=34.77	Pass		
			74	22.17	-3.59	16.43	<=34.77	Pass		
		36	0	21.22	-3.59	15.48	<=34.77	Pass		
			18	21.31	-3.59	15.57	<=34.77	Pass		
			39	21.24	-3.59	15.50	<=34.77	Pass		
		75	0	21.33	-3.59	15.59	<=34.77	Pass		
		680.5	1	0	22.05	-3.59	16.31	<=34.77	Pass	
				38	22.27	-3.59	16.53	<=34.77	Pass	
	74			22.10	-3.59	16.36	<=34.77	Pass		
	36		0	21.36	-3.59	15.62	<=34.77	Pass		
			18	21.34	-3.59	15.60	<=34.77	Pass		
			39	21.36	-3.59	15.62	<=34.77	Pass		
	75		0	21.39	-3.59	15.65	<=34.77	Pass		
	690.5		1	0	22.02	-3.59	16.28	<=34.77	Pass	
				38	22.24	-3.59	16.50	<=34.77	Pass	
		74		22.16	-3.59	16.42	<=34.77	Pass		
		36	0	21.22	-3.59	15.48	<=34.77	Pass		
			18	21.28	-3.59	15.54	<=34.77	Pass		
			39	21.23	-3.59	15.49	<=34.77	Pass		
		75	0	21.24	-3.59	15.50	<=34.77	Pass		
		16QAM	670.5	1	0	21.36	-3.59	15.62	<=34.77	Pass
					38	21.57	-3.59	15.83	<=34.77	Pass
	74				21.47	-3.59	15.73	<=34.77	Pass	
36	0			20.21	-3.59	14.47	<=34.77	Pass		
	18			20.28	-3.59	14.54	<=34.77	Pass		
	39			20.29	-3.59	14.55	<=34.77	Pass		
75	0			20.28	-3.59	14.54	<=34.77	Pass		
680.5	1			0	21.11	-3.59	15.37	<=34.77	Pass	
				38	21.37	-3.59	15.63	<=34.77	Pass	
			74	21.22	-3.59	15.48	<=34.77	Pass		
	36		0	20.34	-3.59	14.60	<=34.77	Pass		
			18	20.31	-3.59	14.57	<=34.77	Pass		
			39	20.38	-3.59	14.64	<=34.77	Pass		
	75		0	20.37	-3.59	14.63	<=34.77	Pass		
	690.5		1	0	21.49	-3.59	15.75	<=34.77	Pass	
				38	21.73	-3.59	15.99	<=34.77	Pass	
74				21.59	-3.59	15.85	<=34.77	Pass		
36			0	20.21	-3.59	14.47	<=34.77	Pass		
			18	20.34	-3.59	14.60	<=34.77	Pass		
			39	20.30	-3.59	14.56	<=34.77	Pass		
75			0	20.22	-3.59	14.48	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

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	22.44	-3.59	16.70	<=34.77	Pass		
			50	22.45	-3.59	16.71	<=34.77	Pass		
			99	22.07	-3.59	16.33	<=34.77	Pass		
		50	0	21.07	-3.59	15.33	<=34.77	Pass		
			25	21.21	-3.59	15.47	<=34.77	Pass		
			50	21.01	-3.59	15.27	<=34.77	Pass		
		100	0	21.03	-3.59	15.29	<=34.77	Pass		
		683	1	0	21.88	-3.59	16.14	<=34.77	Pass	
				50	22.36	-3.59	16.62	<=34.77	Pass	
	99			21.99	-3.59	16.25	<=34.77	Pass		
	50		0	21.41	-3.59	15.67	<=34.77	Pass		
			25	21.29	-3.59	15.55	<=34.77	Pass		
			50	21.21	-3.59	15.47	<=34.77	Pass		
	100		0	21.28	-3.59	15.54	<=34.77	Pass		
	688		1	0	21.84	-3.59	16.10	<=34.77	Pass	
				50	22.38	-3.59	16.64	<=34.77	Pass	
		99		22.01	-3.59	16.27	<=34.77	Pass		
		50	0	21.06	-3.59	15.32	<=34.77	Pass		
			25	21.23	-3.59	15.49	<=34.77	Pass		
			50	21.05	-3.59	15.31	<=34.77	Pass		
		100	0	21.05	-3.59	15.31	<=34.77	Pass		
		16QAM	673	1	0	21.15	-3.59	15.41	<=34.77	Pass
					50	21.66	-3.59	15.92	<=34.77	Pass
	99				21.23	-3.59	15.49	<=34.77	Pass	
50	0			20.00	-3.59	14.26	<=34.77	Pass		
	25			20.20	-3.59	14.46	<=34.77	Pass		
	50			20.01	-3.59	14.27	<=34.77	Pass		
100	0			20.04	-3.59	14.30	<=34.77	Pass		
683	1			0	21.37	-3.59	15.63	<=34.77	Pass	
				50	21.81	-3.59	16.07	<=34.77	Pass	
			99	21.47	-3.59	15.73	<=34.77	Pass		
	50		0	20.36	-3.59	14.62	<=34.77	Pass		
			25	20.26	-3.59	14.52	<=34.77	Pass		
			50	20.20	-3.59	14.46	<=34.77	Pass		
	100		0	20.30	-3.59	14.56	<=34.77	Pass		
	688		1	0	21.00	-3.59	15.26	<=34.77	Pass	
				50	21.54	-3.59	15.80	<=34.77	Pass	
99				21.13	-3.59	15.39	<=34.77	Pass		
50			0	20.05	-3.59	14.31	<=34.77	Pass		
			25	20.20	-3.59	14.46	<=34.77	Pass		
			50	20.03	-3.59	14.29	<=34.77	Pass		
100			0	20.04	-3.59	14.30	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

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	3.27	-2.289	-0.0034	-2.5 to 2.5	Pass
					3.85	-1.287	-0.0019	-2.5 to 2.5	Pass
					4.43	-3.119	-0.0047	-2.5 to 2.5	Pass
				-30	3.85	-8.097	-0.0122	-2.5 to 2.5	Pass
				-20	3.85	-5.522	-0.0083	-2.5 to 2.5	Pass
				-10	3.85	-6.881	-0.0103	-2.5 to 2.5	Pass
				0	3.85	-5.736	-0.0086	-2.5 to 2.5	Pass
				10	3.85	-3.676	-0.0055	-2.5 to 2.5	Pass
				30	3.85	-6.251	-0.0094	-2.5 to 2.5	Pass
	40	3.85	-5.522	-0.0083	-2.5 to 2.5	Pass			
	50	3.85	-5.322	-0.0080	-2.5 to 2.5	Pass			
	680.5	25	0	20	3.27	-7.210	-0.0106	-2.5 to 2.5	Pass
					3.85	-7.768	-0.0114	-2.5 to 2.5	Pass
					4.43	-5.922	-0.0087	-2.5 to 2.5	Pass
				-30	3.85	-6.223	-0.0091	-2.5 to 2.5	Pass
				-20	3.85	-1.674	-0.0025	-2.5 to 2.5	Pass
				-10	3.85	-1.473	-0.0022	-2.5 to 2.5	Pass
				0	3.85	-1.945	-0.0029	-2.5 to 2.5	Pass
				10	3.85	-0.243	-0.0004	-2.5 to 2.5	Pass
				30	3.85	-1.903	-0.0028	-2.5 to 2.5	Pass
	40	3.85	-3.633	-0.0053	-2.5 to 2.5	Pass			
	50	3.85	-8.111	-0.0119	-2.5 to 2.5	Pass			
	695.5	25	0	20	3.27	-7.052	-0.0101	-2.5 to 2.5	Pass
					3.85	-7.596	-0.0109	-2.5 to 2.5	Pass
4.43					-7.882	-0.0113	-2.5 to 2.5	Pass	
-30				3.85	-2.561	-0.0037	-2.5 to 2.5	Pass	
-20				3.85	-2.804	-0.0040	-2.5 to 2.5	Pass	
-10				3.85	-2.375	-0.0034	-2.5 to 2.5	Pass	
0				3.85	-3.204	-0.0046	-2.5 to 2.5	Pass	
10				3.85	-2.146	-0.0031	-2.5 to 2.5	Pass	
30				3.85	-10.042	-0.0144	-2.5 to 2.5	Pass	
40	3.85	-5.922	-0.0085	-2.5 to 2.5	Pass				
50	3.85	-5.693	-0.0082	-2.5 to 2.5	Pass				
16QAM	665.5	25	0	20	3.27	-4.420	-0.0066	-2.5 to 2.5	Pass
					3.85	-7.167	-0.0108	-2.5 to 2.5	Pass
					4.43	-2.203	-0.0033	-2.5 to 2.5	Pass
				-30	3.85	-10.071	-0.0151	-2.5 to 2.5	Pass
				-20	3.85	-4.878	-0.0073	-2.5 to 2.5	Pass
				-10	3.85	-1.745	-0.0026	-2.5 to 2.5	Pass
				0	3.85	-9.127	-0.0137	-2.5 to 2.5	Pass
				10	3.85	-7.467	-0.0112	-2.5 to 2.5	Pass
				30	3.85	-4.034	-0.0061	-2.5 to 2.5	Pass
	40	3.85	-2.632	-0.0040	-2.5 to 2.5	Pass			
	50	3.85	-8.397	-0.0126	-2.5 to 2.5	Pass			
	680.5	25	0	20	3.27	-8.268	-0.0121	-2.5 to 2.5	Pass
					3.85	-7.739	-0.0114	-2.5 to 2.5	Pass
					4.43	-8.311	-0.0122	-2.5 to 2.5	Pass
				-30	3.85	-8.168	-0.0120	-2.5 to 2.5	Pass
				-20	3.85	-7.982	-0.0117	-2.5 to 2.5	Pass
				-10	3.85	-9.956	-0.0146	-2.5 to 2.5	Pass
				0	3.85	-6.323	-0.0093	-2.5 to 2.5	Pass
10				3.85	-6.080	-0.0089	-2.5 to 2.5	Pass	

	695.5	25	0	30	3.85	-8.698	-0.0128	-2.5 to 2.5	Pass
				40	3.85	-7.553	-0.0111	-2.5 to 2.5	Pass
				50	3.85	-4.234	-0.0062	-2.5 to 2.5	Pass
				20	3.27	-6.094	-0.0088	-2.5 to 2.5	Pass
					3.85	-2.217	-0.0032	-2.5 to 2.5	Pass
					4.43	-2.561	-0.0037	-2.5 to 2.5	Pass
				-30	3.85	-10.858	-0.0156	-2.5 to 2.5	Pass
				-20	3.85	-13.332	-0.0192	-2.5 to 2.5	Pass
				-10	3.85	-14.148	-0.0203	-2.5 to 2.5	Pass
				0	3.85	-5.980	-0.0086	-2.5 to 2.5	Pass
				10	3.85	-6.380	-0.0092	-2.5 to 2.5	Pass
				30	3.85	-6.695	-0.0096	-2.5 to 2.5	Pass
				40	3.85	-10.672	-0.0153	-2.5 to 2.5	Pass
				50	3.85	-8.125	-0.0117	-2.5 to 2.5	Pass

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	3.27	-5.322	-0.0080	-2.5 to 2.5	Pass			
					3.85	-4.048	-0.0061	-2.5 to 2.5	Pass			
					4.43	-0.958	-0.0014	-2.5 to 2.5	Pass			
				-30	3.85	-7.396	-0.0111	-2.5 to 2.5	Pass			
				-20	3.85	-5.393	-0.0081	-2.5 to 2.5	Pass			
				-10	3.85	-4.263	-0.0064	-2.5 to 2.5	Pass			
				0	3.85	-8.640	-0.0129	-2.5 to 2.5	Pass			
				10	3.85	-1.531	-0.0023	-2.5 to 2.5	Pass			
				30	3.85	-4.964	-0.0074	-2.5 to 2.5	Pass			
				40	3.85	-5.379	-0.0081	-2.5 to 2.5	Pass			
				50	3.85	-2.775	-0.0042	-2.5 to 2.5	Pass			
				680.5	50	0	20	3.27	-6.909	-0.0102	-2.5 to 2.5	Pass
								3.85	-7.796	-0.0115	-2.5 to 2.5	Pass
								4.43	-4.735	-0.0070	-2.5 to 2.5	Pass
							-30	3.85	-5.608	-0.0082	-2.5 to 2.5	Pass
	-20	3.85	-6.824				-0.0100	-2.5 to 2.5	Pass			
	-10	3.85	-6.638				-0.0098	-2.5 to 2.5	Pass			
	0	3.85	-2.890				-0.0042	-2.5 to 2.5	Pass			
	10	3.85	-3.018				-0.0044	-2.5 to 2.5	Pass			
	30	3.85	-0.415				-0.0006	-2.5 to 2.5	Pass			
	693	50	0	20	3.27	-8.926	-0.0129	-2.5 to 2.5	Pass			
					3.85	-5.322	-0.0077	-2.5 to 2.5	Pass			
					4.43	-1.373	-0.0020	-2.5 to 2.5	Pass			
				-30	3.85	0.315	0.0005	-2.5 to 2.5	Pass			
				-20	3.85	-10.071	-0.0145	-2.5 to 2.5	Pass			
				-10	3.85	-4.120	-0.0059	-2.5 to 2.5	Pass			
	0	3.85	-2.747	-0.0040	-2.5 to 2.5	Pass						
	10	3.85	-9.942	-0.0143	-2.5 to 2.5	Pass						

				30	3.85	-4.749	-0.0069	-2.5 to 2.5	Pass
				40	3.85	-2.732	-0.0039	-2.5 to 2.5	Pass
				50	3.85	-4.964	-0.0072	-2.5 to 2.5	Pass
16QAM	668	50	0	20	3.27	-5.293	-0.0079	-2.5 to 2.5	Pass
					3.85	-9.327	-0.0140	-2.5 to 2.5	Pass
					4.43	-4.692	-0.0070	-2.5 to 2.5	Pass
				-30	3.85	-0.858	-0.0013	-2.5 to 2.5	Pass
				-20	3.85	-6.981	-0.0105	-2.5 to 2.5	Pass
				-10	3.85	-2.260	-0.0034	-2.5 to 2.5	Pass
				0	3.85	-7.482	-0.0112	-2.5 to 2.5	Pass
				10	3.85	-6.866	-0.0103	-2.5 to 2.5	Pass
				30	3.85	-3.548	-0.0053	-2.5 to 2.5	Pass
				40	3.85	-1.359	-0.0020	-2.5 to 2.5	Pass
				50	3.85	-7.124	-0.0107	-2.5 to 2.5	Pass
				680.5	50	0	20	3.27	1.073
	3.85	-5.665	-0.0083					-2.5 to 2.5	Pass
	4.43	-3.133	-0.0046					-2.5 to 2.5	Pass
	-30	3.85	0.658				0.0010	-2.5 to 2.5	Pass
	-20	3.85	1.187				0.0017	-2.5 to 2.5	Pass
	-10	3.85	1.116				0.0016	-2.5 to 2.5	Pass
	0	3.85	-1.631				-0.0024	-2.5 to 2.5	Pass
	10	3.85	-1.259				-0.0019	-2.5 to 2.5	Pass
	30	3.85	-3.448				-0.0051	-2.5 to 2.5	Pass
	40	3.85	-3.347				-0.0049	-2.5 to 2.5	Pass
	50	3.85	-3.047				-0.0045	-2.5 to 2.5	Pass
	693	50	0				20	3.27	-6.237
				3.85	-9.828	-0.0142		-2.5 to 2.5	Pass
				4.43	-10.228	-0.0148		-2.5 to 2.5	Pass
				-30	3.85	-9.341	-0.0135	-2.5 to 2.5	Pass
				-20	3.85	-11.530	-0.0166	-2.5 to 2.5	Pass
				-10	3.85	-10.343	-0.0149	-2.5 to 2.5	Pass
				0	3.85	-7.181	-0.0104	-2.5 to 2.5	Pass
				10	3.85	-8.097	-0.0117	-2.5 to 2.5	Pass
30				3.85	-8.311	-0.0120	-2.5 to 2.5	Pass	
40				3.85	-8.526	-0.0123	-2.5 to 2.5	Pass	
50				3.85	-9.084	-0.0131	-2.5 to 2.5	Pass	

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	3.27	-5.379	-0.0080	-2.5 to 2.5	Pass
					3.85	-2.804	-0.0042	-2.5 to 2.5	Pass
					4.43	-6.852	-0.0102	-2.5 to 2.5	Pass
				-30	3.85	-2.546	-0.0038	-2.5 to 2.5	Pass
				-20	3.85	-4.478	-0.0067	-2.5 to 2.5	Pass
				-10	3.85	-7.854	-0.0117	-2.5 to 2.5	Pass
				0	3.85	-5.608	-0.0084	-2.5 to 2.5	Pass
				10	3.85	-2.675	-0.0040	-2.5 to 2.5	Pass

	680.5	75	0	30	3.85	-3.004	-0.0045	-2.5 to 2.5	Pass			
				40	3.85	-2.875	-0.0043	-2.5 to 2.5	Pass			
				50	3.85	-5.794	-0.0086	-2.5 to 2.5	Pass			
				20	3.27	-4.120	-0.0061	-2.5 to 2.5	Pass			
					3.85	-4.048	-0.0059	-2.5 to 2.5	Pass			
					4.43	-3.819	-0.0056	-2.5 to 2.5	Pass			
				-30	3.85	-3.076	-0.0045	-2.5 to 2.5	Pass			
				-20	3.85	-7.081	-0.0104	-2.5 to 2.5	Pass			
				-10	3.85	-9.227	-0.0136	-2.5 to 2.5	Pass			
				0	3.85	-6.294	-0.0092	-2.5 to 2.5	Pass			
				10	3.85	-4.864	-0.0071	-2.5 to 2.5	Pass			
				30	3.85	-3.304	-0.0049	-2.5 to 2.5	Pass			
				40	3.85	-9.227	-0.0136	-2.5 to 2.5	Pass			
				50	3.85	-9.027	-0.0133	-2.5 to 2.5	Pass			
				690.5	75	0	20	3.27	-5.708	-0.0083	-2.5 to 2.5	Pass
	3.85	-4.277	-0.0062					-2.5 to 2.5	Pass			
	4.43	-2.031	-0.0029					-2.5 to 2.5	Pass			
	-30	3.85	-2.646				-0.0038	-2.5 to 2.5	Pass			
	-20	3.85	-7.524				-0.0109	-2.5 to 2.5	Pass			
	-10	3.85	-5.221				-0.0076	-2.5 to 2.5	Pass			
	0	3.85	-5.665				-0.0082	-2.5 to 2.5	Pass			
	10	3.85	-6.337				-0.0092	-2.5 to 2.5	Pass			
	30	3.85	-5.422				-0.0079	-2.5 to 2.5	Pass			
	40	3.85	-11.215				-0.0162	-2.5 to 2.5	Pass			
	50	3.85	-6.409				-0.0093	-2.5 to 2.5	Pass			
	16QAM	670.5	75				0	20	3.27	-5.779	-0.0086	-2.5 to 2.5
				3.85	-4.377	-0.0065			-2.5 to 2.5	Pass		
4.43				-9.170	-0.0137	-2.5 to 2.5			Pass			
-30				3.85	-5.178	-0.0077		-2.5 to 2.5	Pass			
-20				3.85	-3.161	-0.0047		-2.5 to 2.5	Pass			
-10				3.85	-7.281	-0.0109		-2.5 to 2.5	Pass			
0				3.85	-4.649	-0.0069		-2.5 to 2.5	Pass			
10				3.85	-3.862	-0.0058		-2.5 to 2.5	Pass			
30				3.85	-7.353	-0.0110		-2.5 to 2.5	Pass			
40				3.85	-7.997	-0.0119		-2.5 to 2.5	Pass			
50				3.85	-5.536	-0.0083		-2.5 to 2.5	Pass			
680.5				75	0	20		3.27	-3.877	-0.0057	-2.5 to 2.5	Pass
								3.85	-7.782	-0.0114	-2.5 to 2.5	Pass
								4.43	-7.195	-0.0106	-2.5 to 2.5	Pass
						-30		3.85	-7.296	-0.0107	-2.5 to 2.5	Pass
		-20	3.85			-6.995	-0.0103	-2.5 to 2.5	Pass			
		-10	3.85			-7.753	-0.0114	-2.5 to 2.5	Pass			
		0	3.85			-7.524	-0.0111	-2.5 to 2.5	Pass			
		10	3.85			-6.237	-0.0092	-2.5 to 2.5	Pass			
		30	3.85			-7.296	-0.0107	-2.5 to 2.5	Pass			
40		3.85	-8.240	-0.0121	-2.5 to 2.5	Pass						
50		3.85	-7.782	-0.0114	-2.5 to 2.5	Pass						
690.5		75	0	20	3.27	-7.067	-0.0102	-2.5 to 2.5	Pass			
					3.85	-5.836	-0.0085	-2.5 to 2.5	Pass			
					4.43	-5.865	-0.0085	-2.5 to 2.5	Pass			
				-30	3.85	-6.151	-0.0089	-2.5 to 2.5	Pass			
				-20	3.85	-6.595	-0.0096	-2.5 to 2.5	Pass			
				-10	3.85	-8.197	-0.0119	-2.5 to 2.5	Pass			
0		3.85	-4.892	-0.0071	-2.5 to 2.5	Pass						
10		3.85	-4.449	-0.0064	-2.5 to 2.5	Pass						

				30	3.85	-5.078	-0.0074	-2.5 to 2.5	Pass
				40	3.85	-7.052	-0.0102	-2.5 to 2.5	Pass
				50	3.85	-5.751	-0.0083	-2.5 to 2.5	Pass

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	3.27	-6.680	-0.0099	-2.5 to 2.5	Pass	
					3.85	-8.683	-0.0129	-2.5 to 2.5	Pass	
					4.43	-7.339	-0.0109	-2.5 to 2.5	Pass	
				-30	3.85	-6.595	-0.0098	-2.5 to 2.5	Pass	
					-20	3.85	-6.523	-0.0097	-2.5 to 2.5	Pass
						-10	3.85	-6.480	-0.0096	-2.5 to 2.5
				0	3.85	-8.340	-0.0124	-2.5 to 2.5	Pass	
					10	3.85	-6.938	-0.0103	-2.5 to 2.5	Pass
				30	3.85	-7.281	-0.0108	-2.5 to 2.5	Pass	
	40	3.85	-8.612	-0.0128	-2.5 to 2.5	Pass				
	50	3.85	-5.164	-0.0077	-2.5 to 2.5	Pass				
	683	100	0	20	3.27	-4.907	-0.0072	-2.5 to 2.5	Pass	
					3.85	-3.834	-0.0056	-2.5 to 2.5	Pass	
					4.43	-8.869	-0.0130	-2.5 to 2.5	Pass	
				-30	3.85	-5.465	-0.0080	-2.5 to 2.5	Pass	
					-20	3.85	-8.526	-0.0125	-2.5 to 2.5	Pass
						-10	3.85	-7.010	-0.0103	-2.5 to 2.5
				0	3.85	-6.752	-0.0099	-2.5 to 2.5	Pass	
					10	3.85	-6.709	-0.0098	-2.5 to 2.5	Pass
				30	3.85	-2.060	-0.0030	-2.5 to 2.5	Pass	
	40	3.85	-7.653	-0.0112	-2.5 to 2.5	Pass				
	50	3.85	-3.119	-0.0046	-2.5 to 2.5	Pass				
	688	100	0	20	3.27	-7.424	-0.0108	-2.5 to 2.5	Pass	
					3.85	-3.462	-0.0050	-2.5 to 2.5	Pass	
					4.43	-5.522	-0.0080	-2.5 to 2.5	Pass	
				-30	3.85	-8.554	-0.0124	-2.5 to 2.5	Pass	
					-20	3.85	-3.462	-0.0050	-2.5 to 2.5	Pass
-10						3.85	-6.666	-0.0097	-2.5 to 2.5	Pass
0				3.85	-6.065	-0.0088	-2.5 to 2.5	Pass		
				10	3.85	-7.839	-0.0114	-2.5 to 2.5	Pass	
30				3.85	-4.692	-0.0068	-2.5 to 2.5	Pass		
40	3.85	-7.339	-0.0107	-2.5 to 2.5	Pass					
50	3.85	-6.051	-0.0088	-2.5 to 2.5	Pass					
16QAM	673	100	0	20	3.27	-7.253	-0.0108	-2.5 to 2.5	Pass	
					3.85	-6.895	-0.0102	-2.5 to 2.5	Pass	
					4.43	-6.709	-0.0100	-2.5 to 2.5	Pass	
				-30	3.85	-7.381	-0.0110	-2.5 to 2.5	Pass	
					-20	3.85	-8.955	-0.0133	-2.5 to 2.5	Pass
				-10		3.85	-8.225	-0.0122	-2.5 to 2.5	Pass
				0	3.85	-7.596	-0.0113	-2.5 to 2.5	Pass	
10	3.85	-7.954	-0.0118	-2.5 to 2.5	Pass					

	683	100	0	30	3.85	-10.400	-0.0155	-2.5 to 2.5	Pass
				40	3.85	-8.311	-0.0123	-2.5 to 2.5	Pass
				50	3.85	-6.523	-0.0097	-2.5 to 2.5	Pass
				20	3.27	-7.153	-0.0105	-2.5 to 2.5	Pass
					3.85	-8.597	-0.0126	-2.5 to 2.5	Pass
					4.43	-2.618	-0.0038	-2.5 to 2.5	Pass
				-30	3.85	-3.290	-0.0048	-2.5 to 2.5	Pass
				-20	3.85	-8.883	-0.0130	-2.5 to 2.5	Pass
				-10	3.85	-9.913	-0.0145	-2.5 to 2.5	Pass
				0	3.85	-2.246	-0.0033	-2.5 to 2.5	Pass
				10	3.85	-6.437	-0.0094	-2.5 to 2.5	Pass
				30	3.85	-5.078	-0.0074	-2.5 to 2.5	Pass
	40	3.85	-6.280	-0.0092	-2.5 to 2.5	Pass			
	50	3.85	-9.599	-0.0141	-2.5 to 2.5	Pass			
	688	100	0	20	3.27	-7.954	-0.0116	-2.5 to 2.5	Pass
					3.85	-9.842	-0.0143	-2.5 to 2.5	Pass
					4.43	-9.470	-0.0138	-2.5 to 2.5	Pass
				-30	3.85	-8.440	-0.0123	-2.5 to 2.5	Pass
				-20	3.85	-1.030	-0.0015	-2.5 to 2.5	Pass
				-10	3.85	-3.033	-0.0044	-2.5 to 2.5	Pass
				0	3.85	-2.317	-0.0034	-2.5 to 2.5	Pass
				10	3.85	-4.563	-0.0066	-2.5 to 2.5	Pass
				30	3.85	-2.618	-0.0038	-2.5 to 2.5	Pass
				40	3.85	-4.849	-0.0070	-2.5 to 2.5	Pass
50				3.85	-4.978	-0.0072	-2.5 to 2.5	Pass	

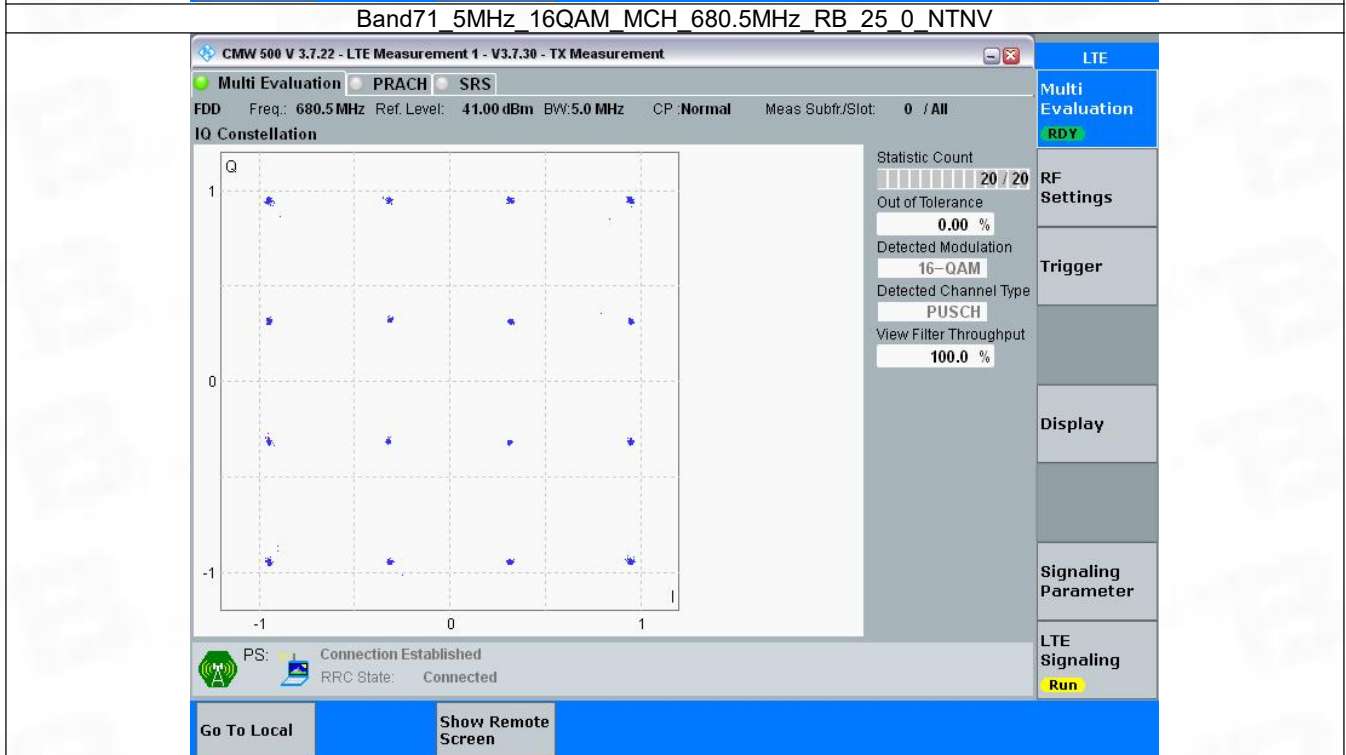
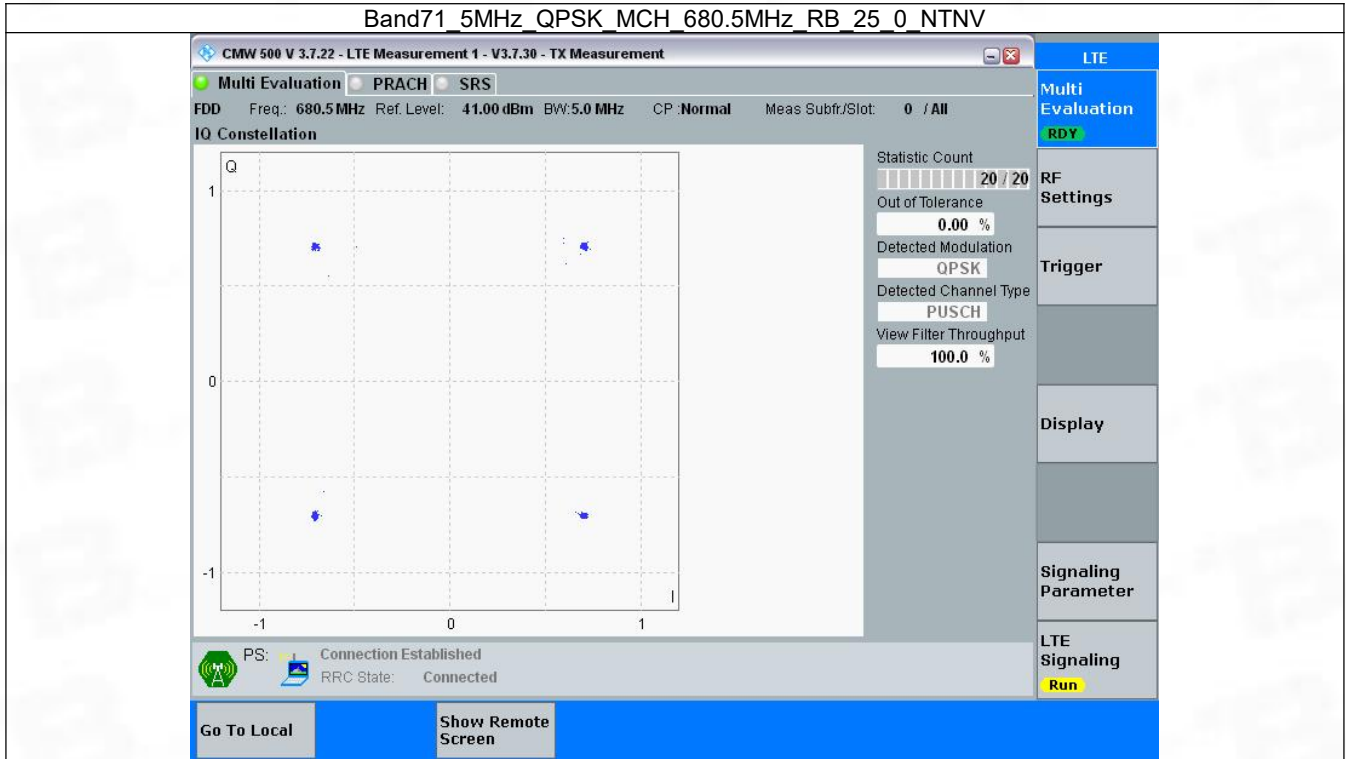
3. Modulation Characteristics

3.1 B71_5MHz

3.1.1 Test Result

Band: 71 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	680.5	25	0	Refer To Test Graph		Pass
16QAM	680.5	25	0	Refer To Test Graph		Pass

3.1.2 Test Graph

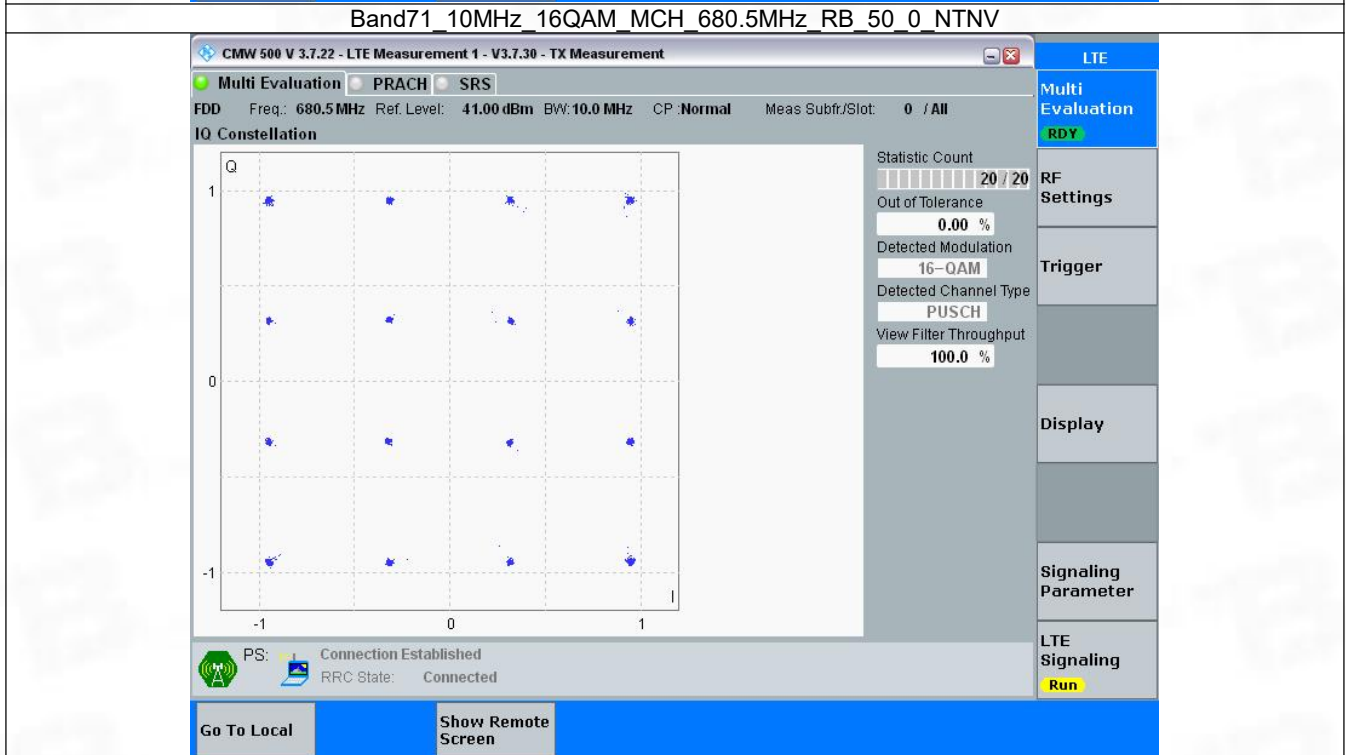
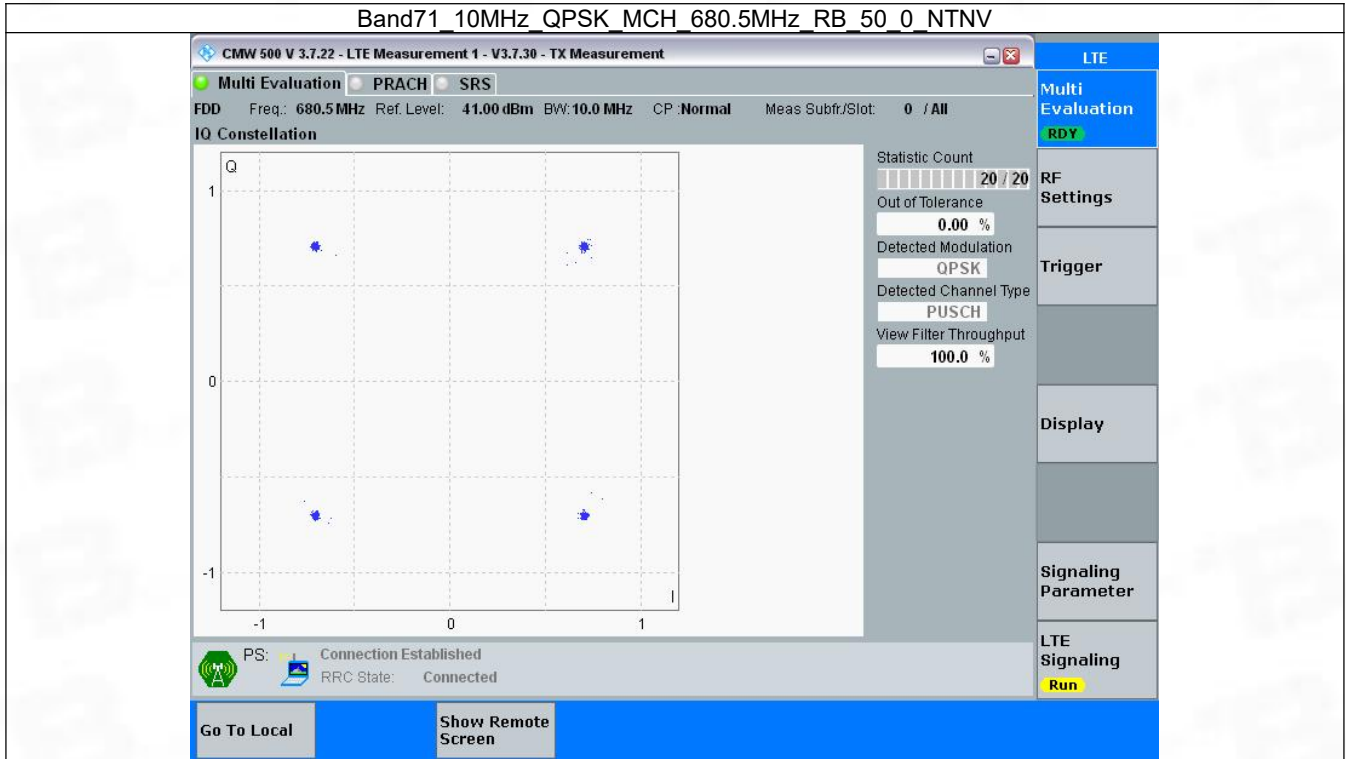


3.2 B71_10MHz

3.2.1 Test Result

Band: 71 / Bandwidth: 10MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	680.5	50	0	Refer To Test Graph		Pass
16QAM	680.5	50	0	Refer To Test Graph		Pass

3.2.2 Test Graph

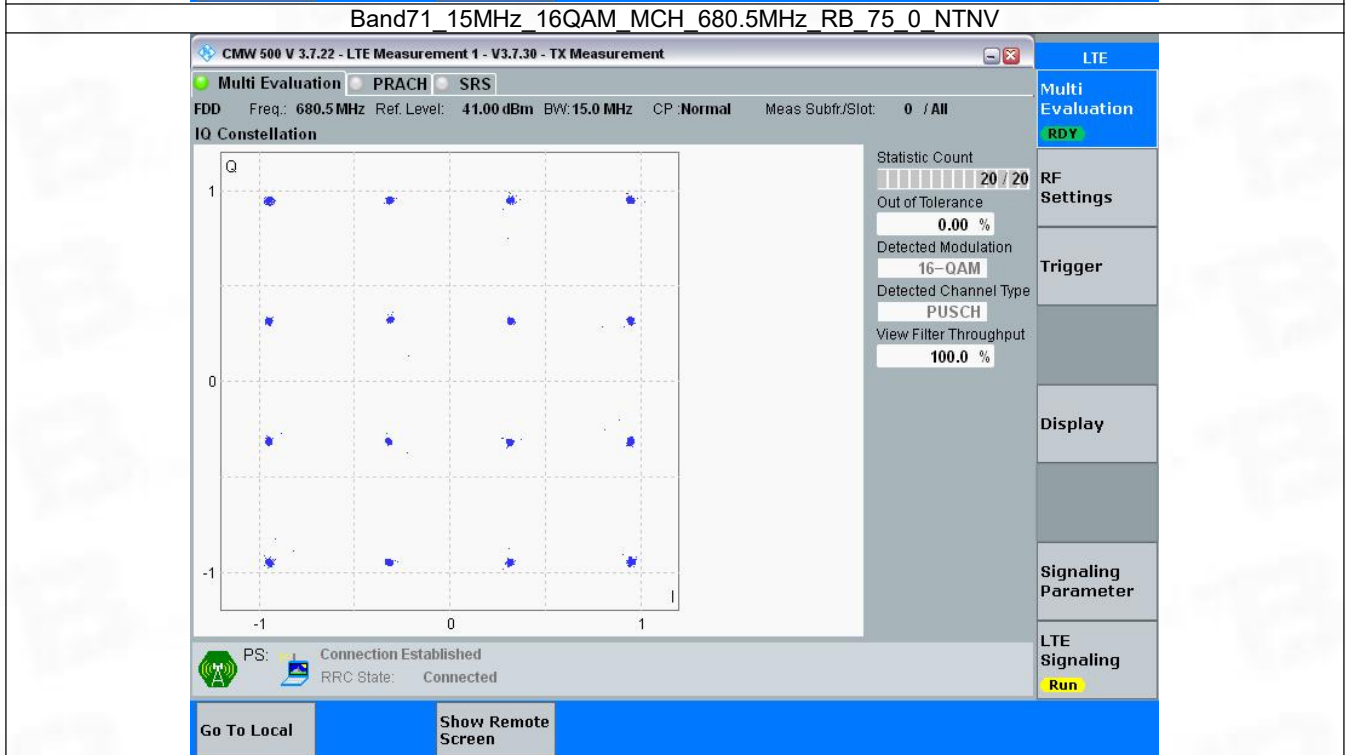
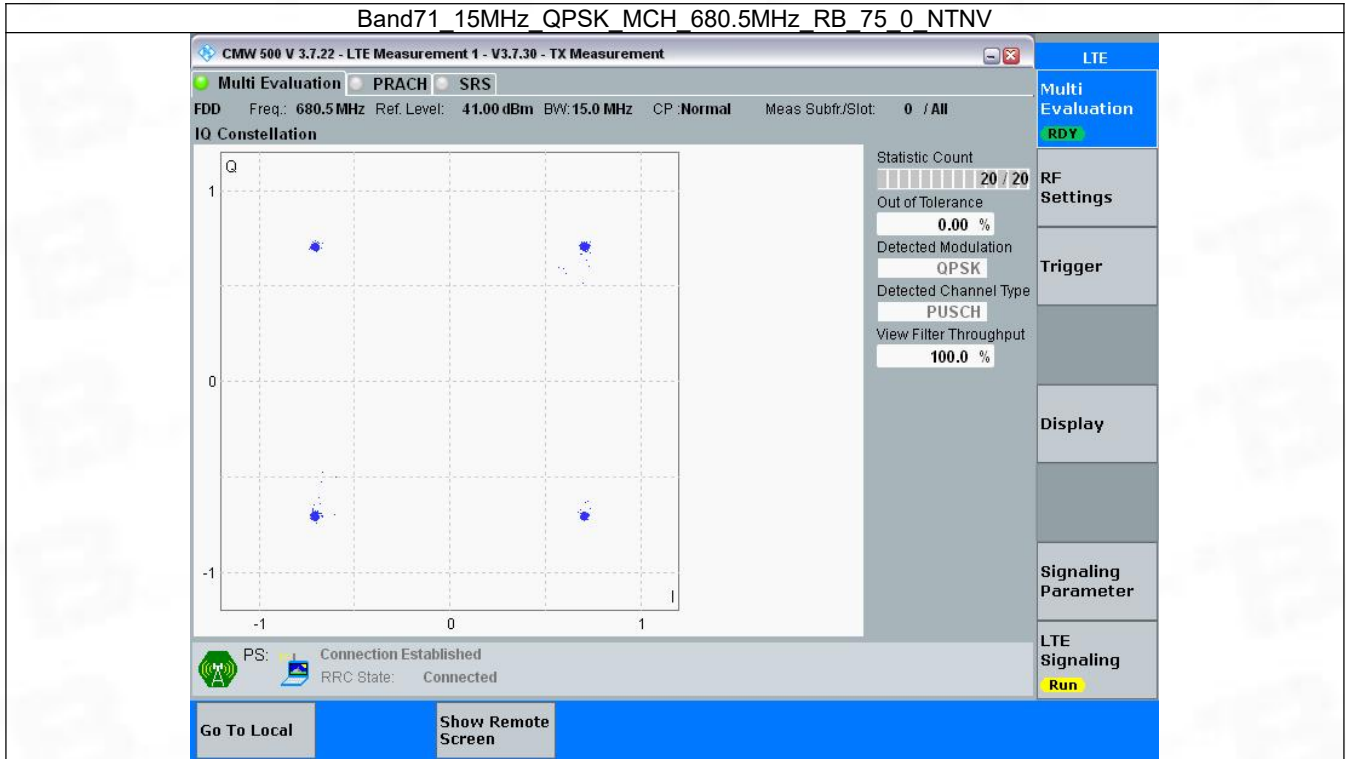


3.3 B71_15MHz

3.3.1 Test Result

Band: 71 / Bandwidth: 15MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	680.5	75	0	Refer To Test Graph		Pass
16QAM	680.5	75	0	Refer To Test Graph		Pass

3.3.2 Test Graph

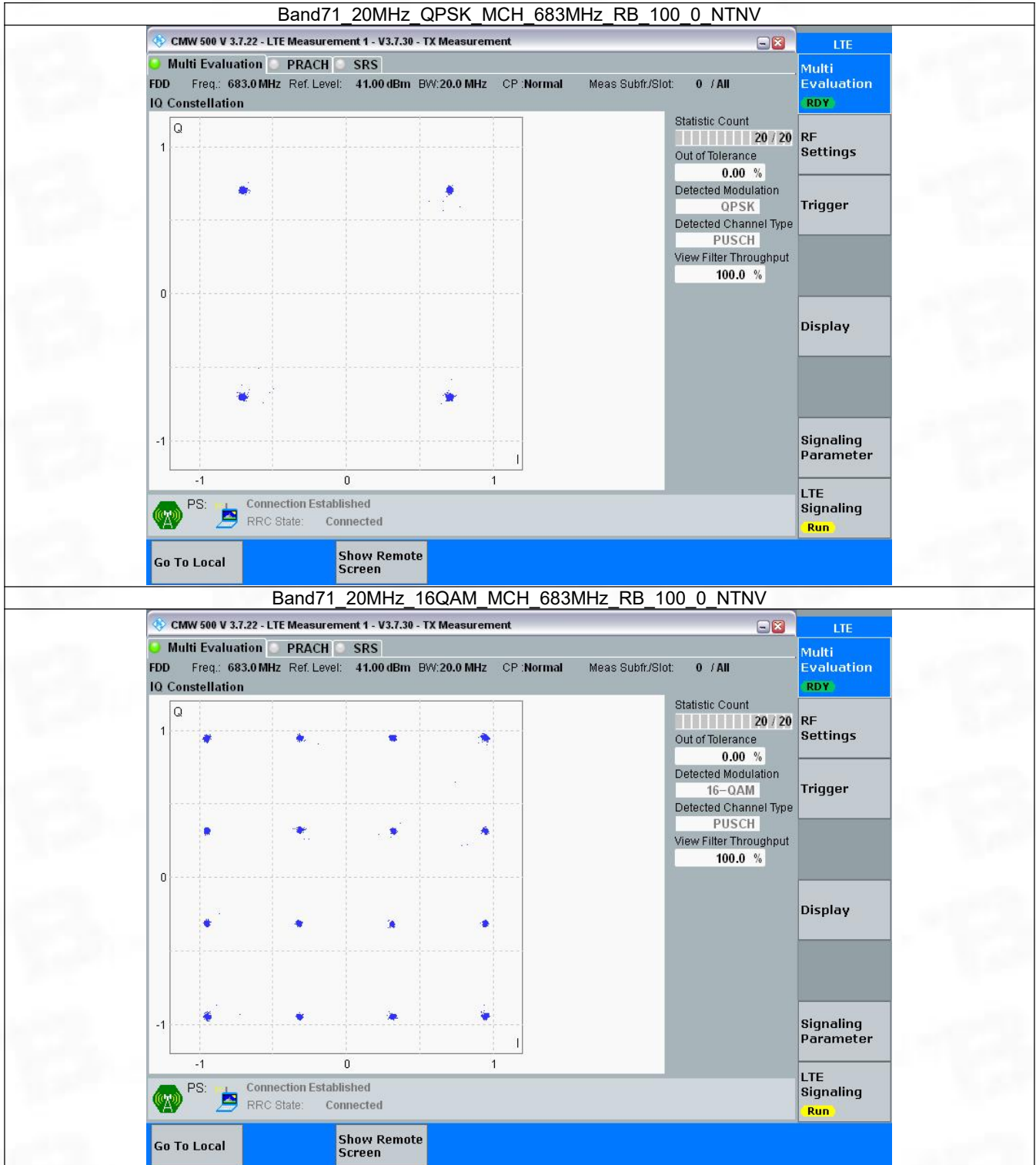


3.4 B71_20MHz

3.4.1 Test Result

Band: 71 / Bandwidth: 20MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	683	100	0	Refer To Test Graph		Pass
16QAM	683	100	0	Refer To Test Graph		Pass

3.4.2 Test Graph



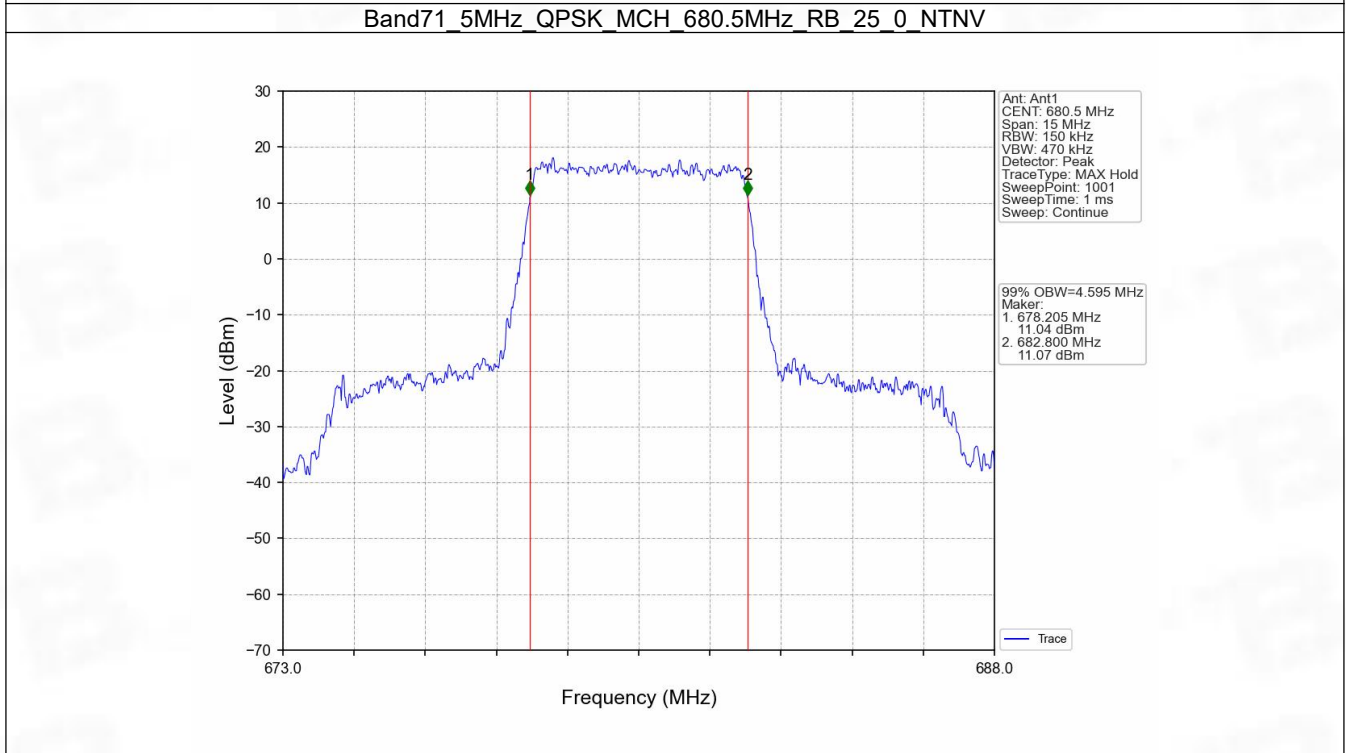
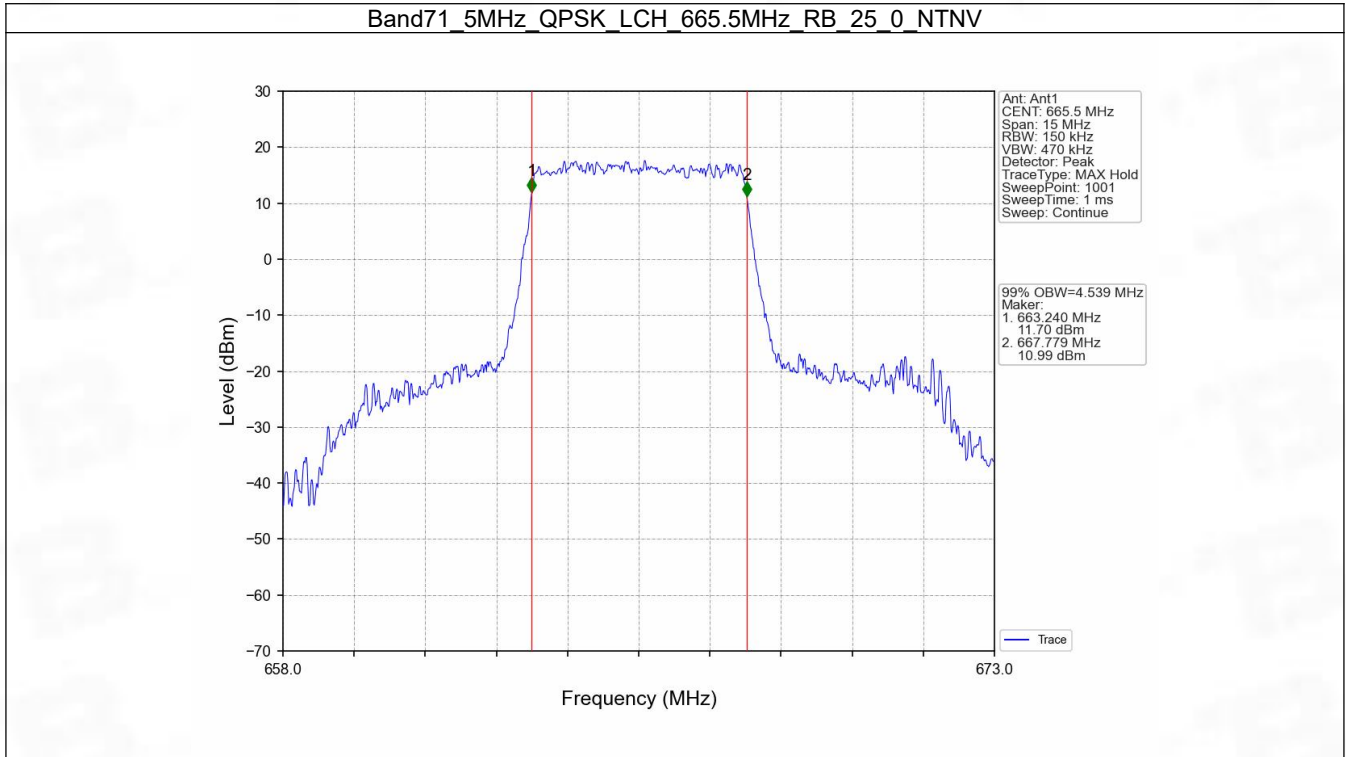
4. 99% & 26dB Bandwidth

4.1 Band71_OBW

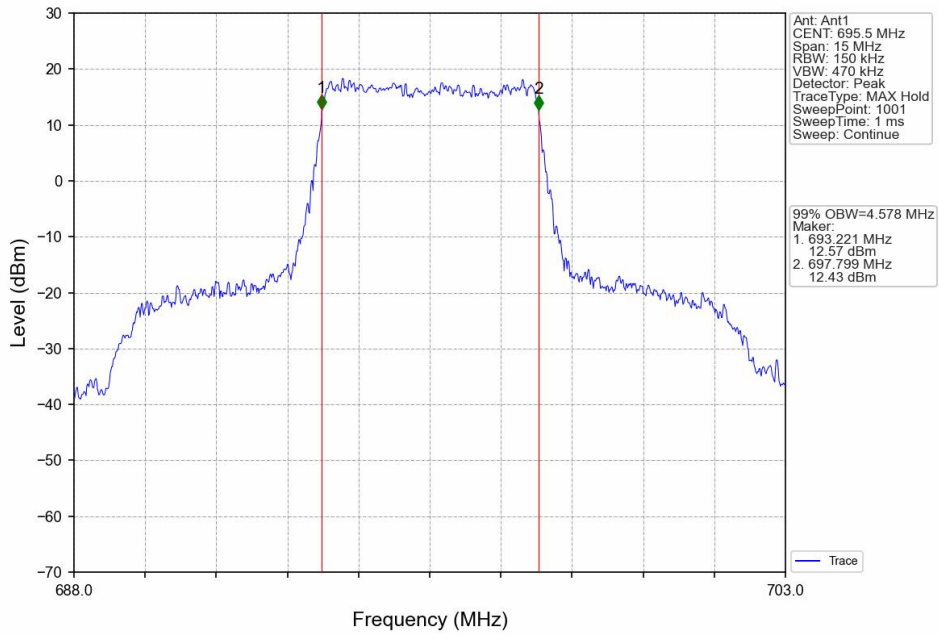
4.1.1 Test Result

Band: 71 / NTV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	665.5	25	0	4.539	Pass
		680.5	25	0	4.595	Pass
		695.5	25	0	4.578	Pass
	16QAM	665.5	25	0	4.569	Pass
		680.5	25	0	4.570	Pass
		695.5	25	0	4.618	Pass
10	QPSK	668	50	0	9.102	Pass
		680.5	50	0	9.084	Pass
		693	50	0	9.112	Pass
	16QAM	668	50	0	9.085	Pass
		680.5	50	0	9.091	Pass
		693	50	0	9.099	Pass
15	QPSK	670.5	75	0	13.601	Pass
		680.5	75	0	13.648	Pass
		690.5	75	0	13.571	Pass
	16QAM	670.5	75	0	13.600	Pass
		680.5	75	0	13.696	Pass
		690.5	75	0	13.574	Pass
20	QPSK	673	100	0	18.081	Pass
		683	100	0	18.193	Pass
		688	100	0	18.145	Pass
	16QAM	673	100	0	18.152	Pass
		683	100	0	18.174	Pass
		688	100	0	18.089	Pass

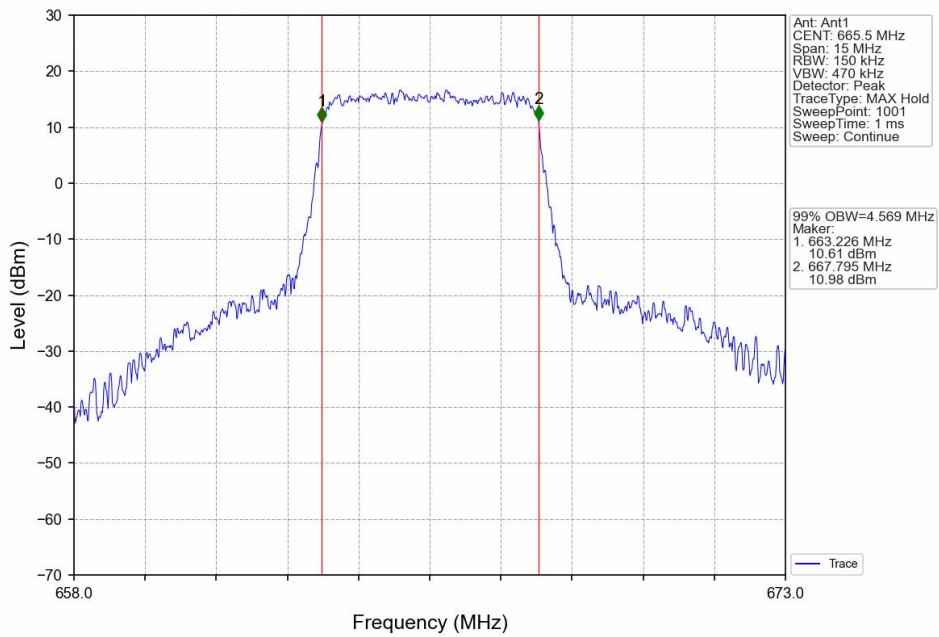
4.1.2 Test Graph



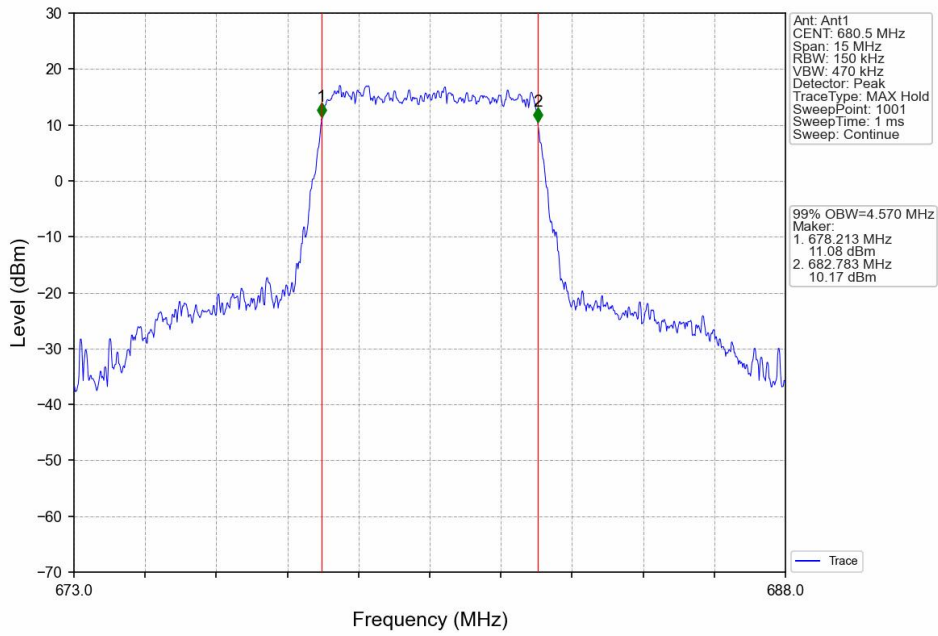
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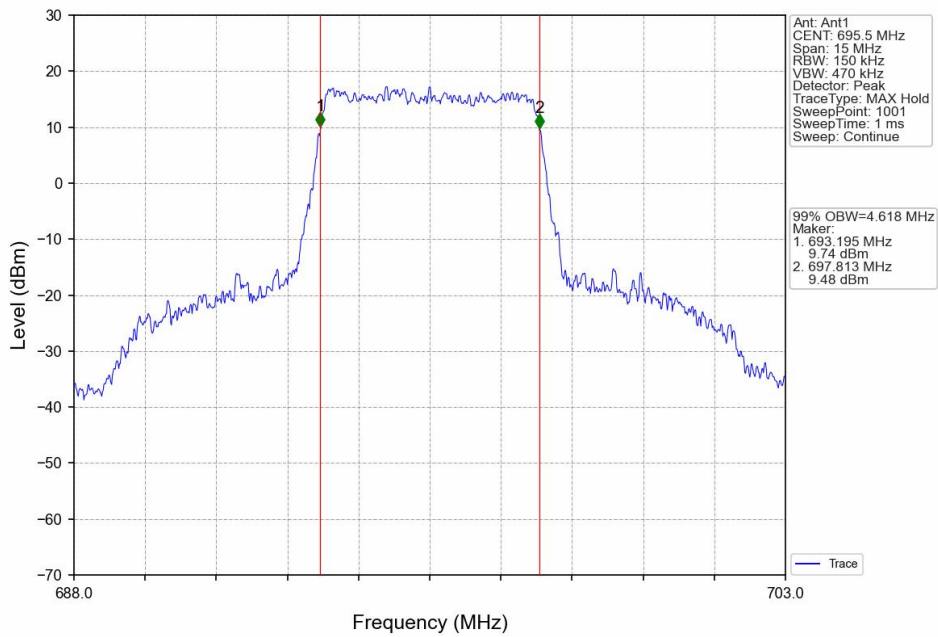
Band71_5MHz_16QAM_LCH_665.5MHz_RB_25_0_NTNV



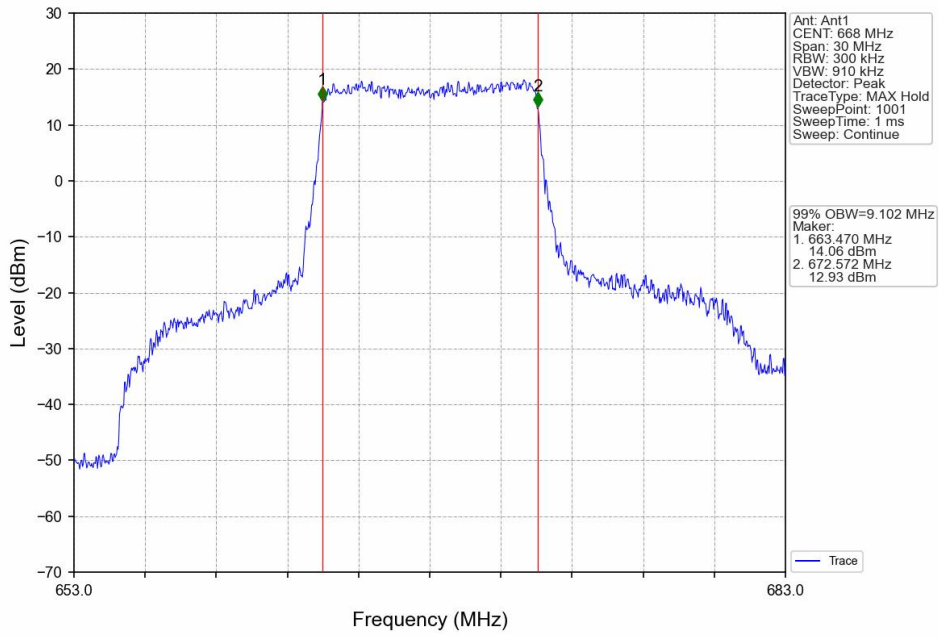
Band71_5MHz_16QAM_MCH_680.5MHz_RB_25_0_NTNV



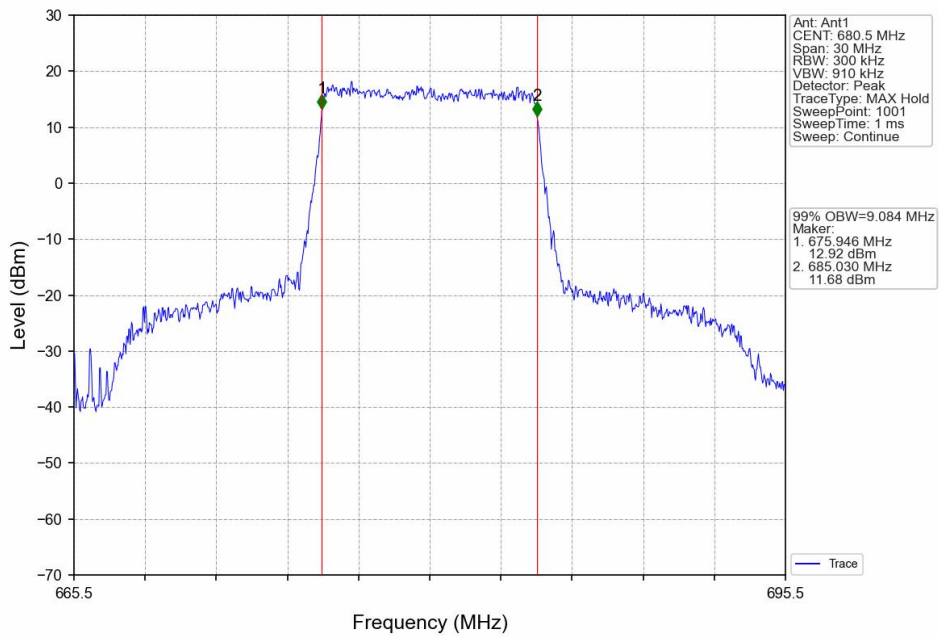
Band71_5MHz_16QAM_HCH_695.5MHz_RB_25_0_NTNV



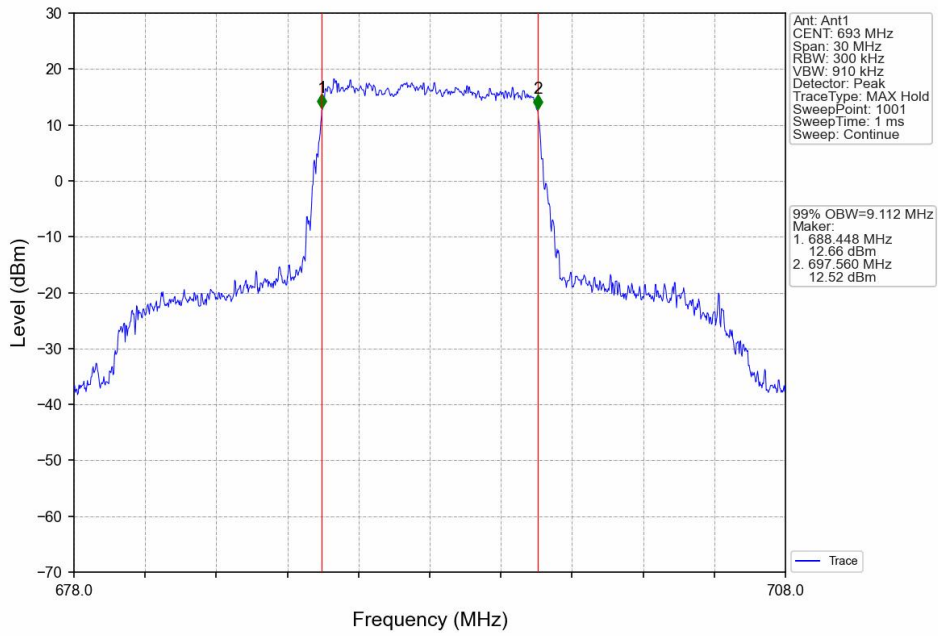
Band71 10MHz QPSK LCH 668MHz RB 50 0 NTN



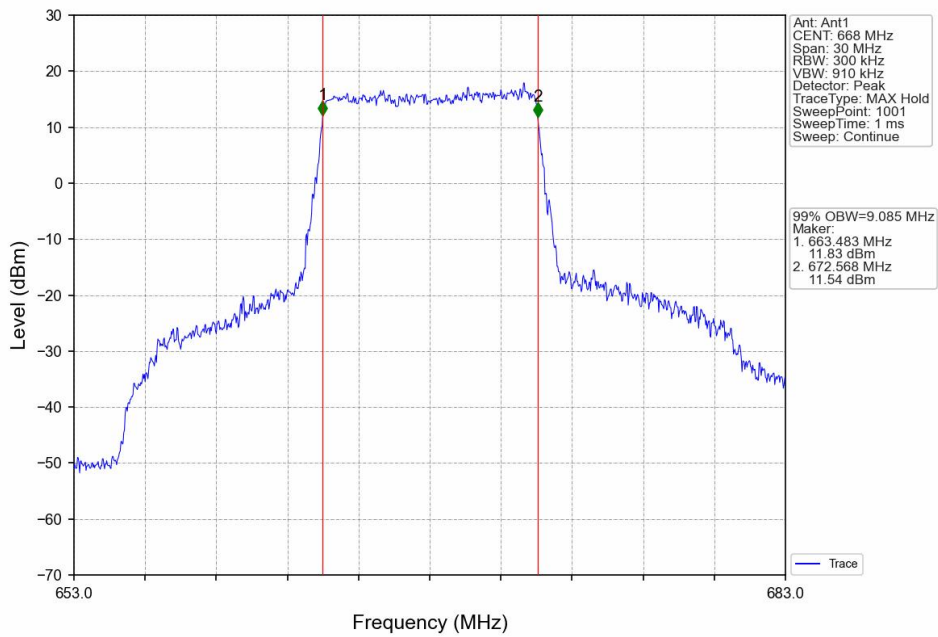
Band71 10MHz QPSK MCH 680.5MHz RB 50 0 NTN



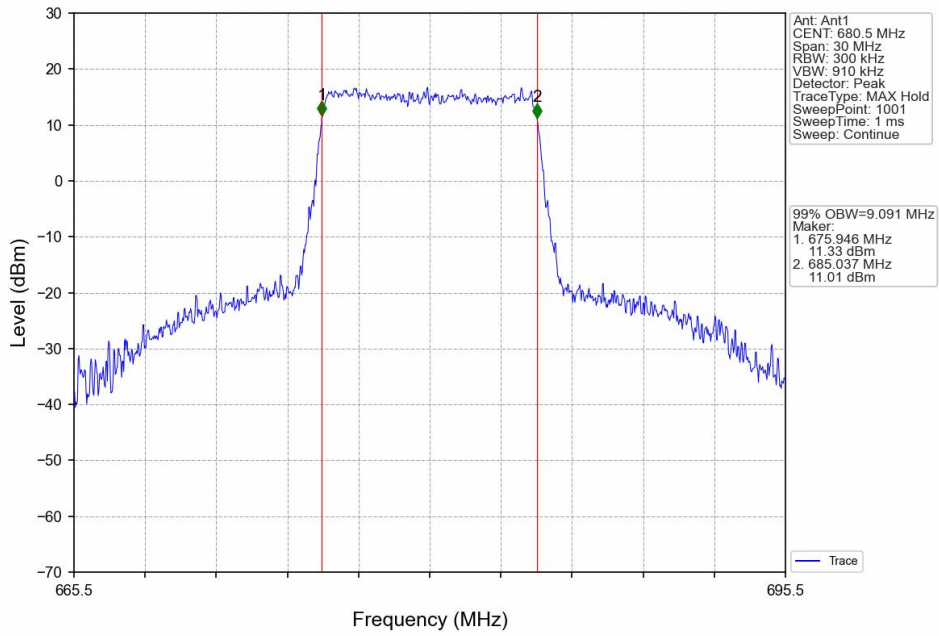
Band71_10MHz_QPSK_HCH_693MHz_RB_50_0_NTNV



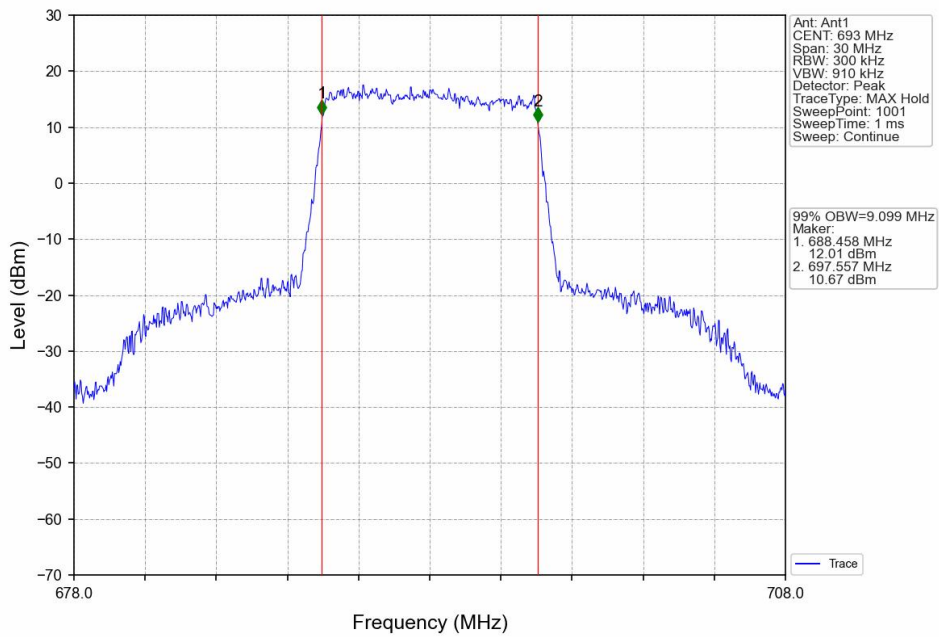
Band71_10MHz_16QAM_LCH_668MHz_RB_50_0_NTNV



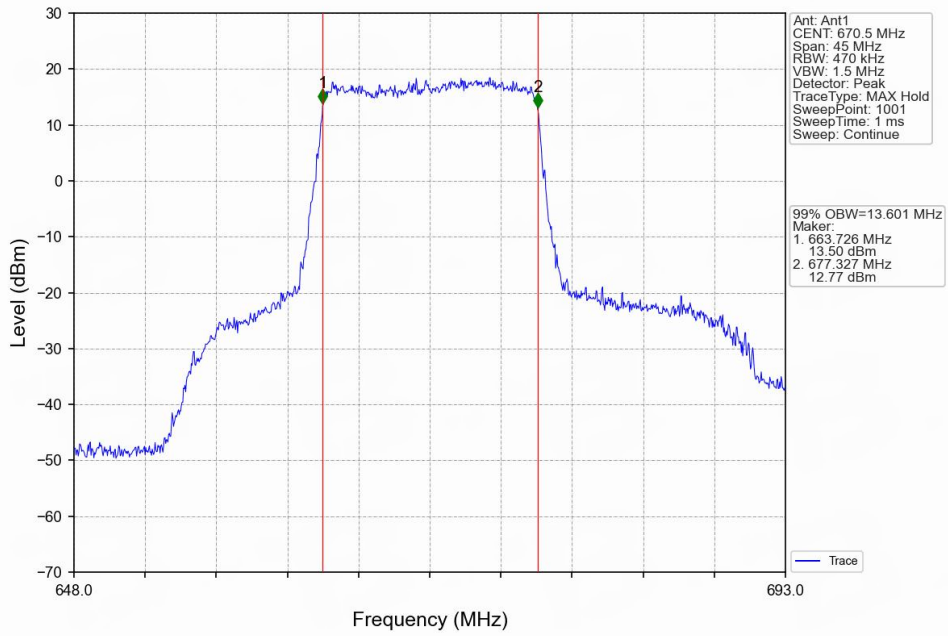
Band71_10MHz_16QAM_MCH_680.5MHz_RB_50_0_NTNV



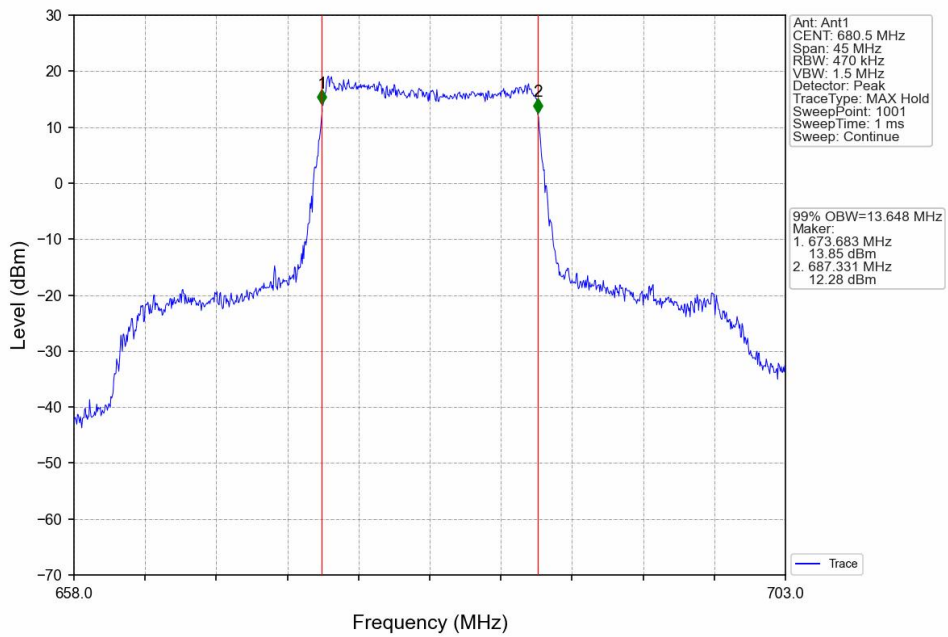
Band71_10MHz_16QAM_HCH_693MHz_RB_50_0_NTNV



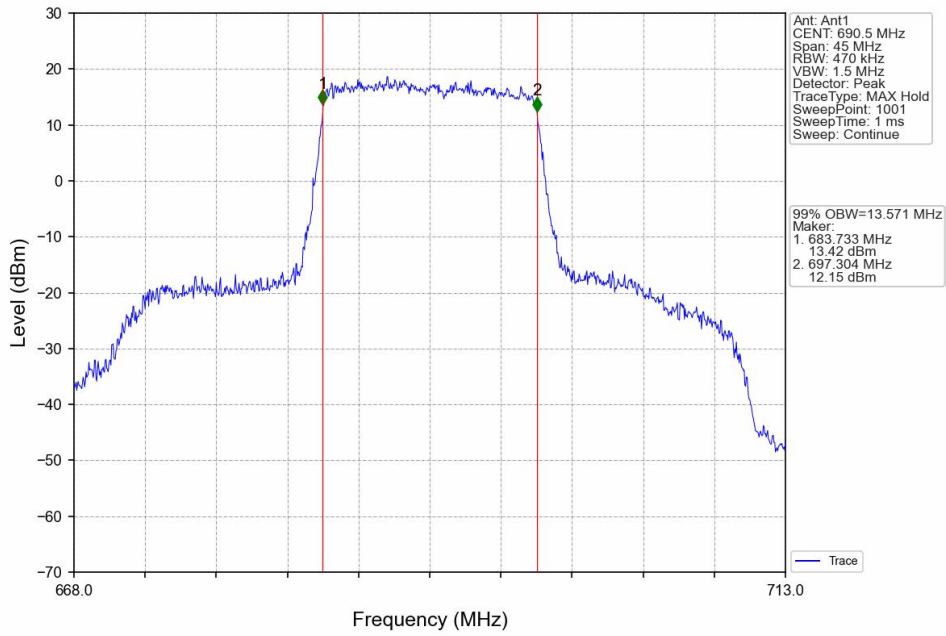
Band71_15MHz_QPSK_LCH_670.5MHz_RB_75_0_NTNV



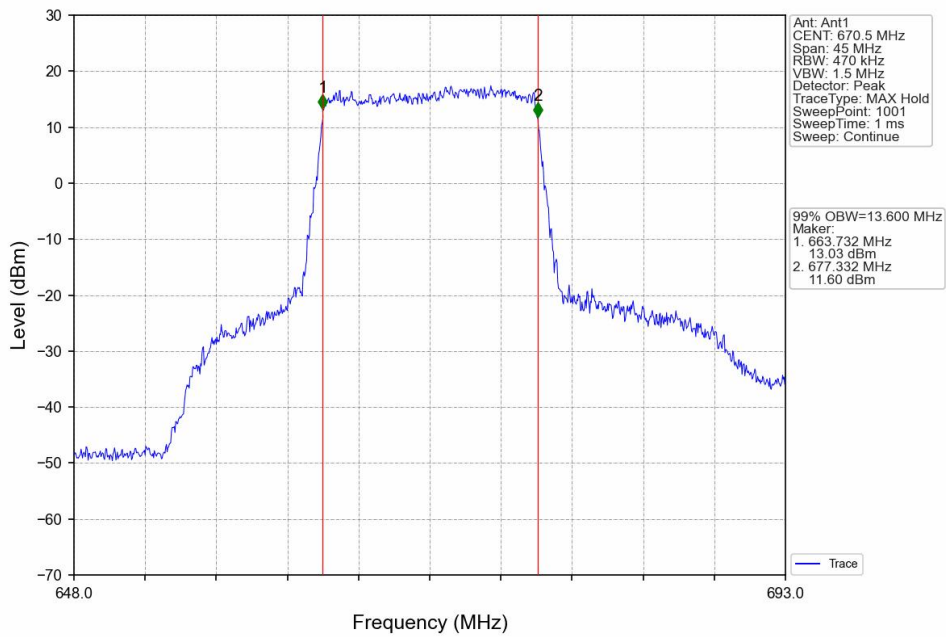
Band71_15MHz_QPSK_MCH_680.5MHz_RB_75_0_NTNV



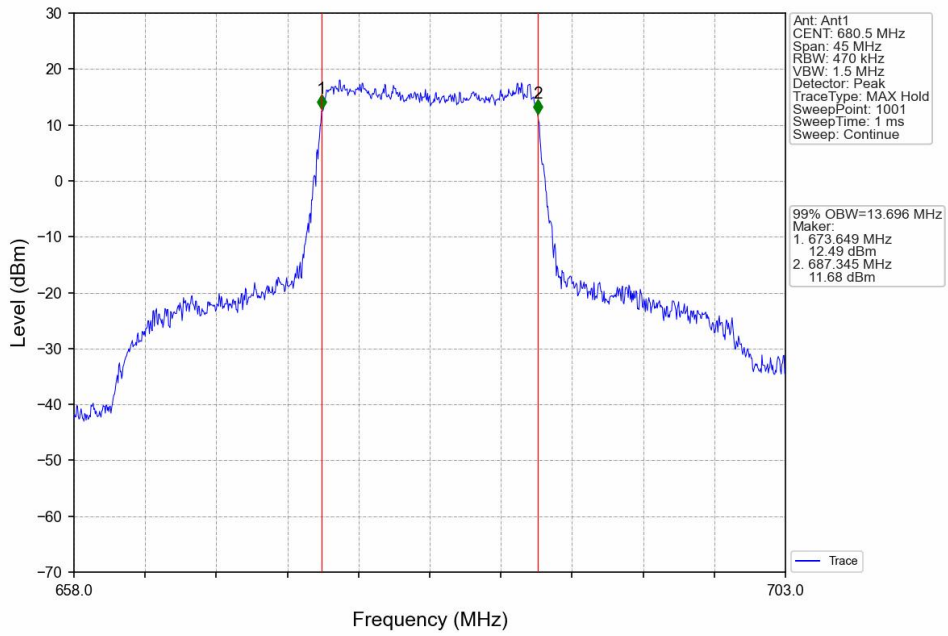
Band71_15MHz_QPSK_HCH_690.5MHz_RB_75_0_NTNV



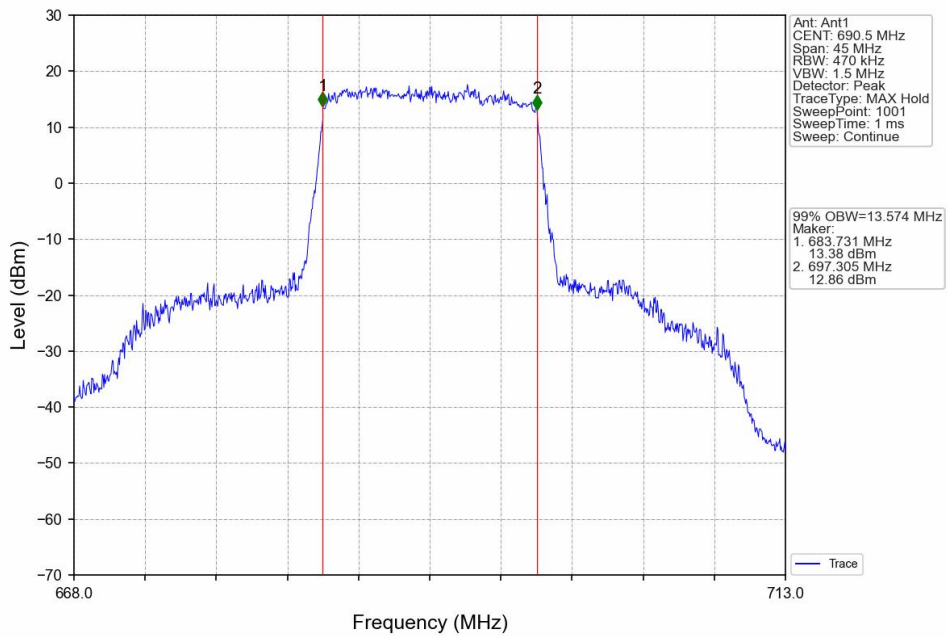
Band71_15MHz_16QAM_LCH_670.5MHz_RB_75_0_NTNV



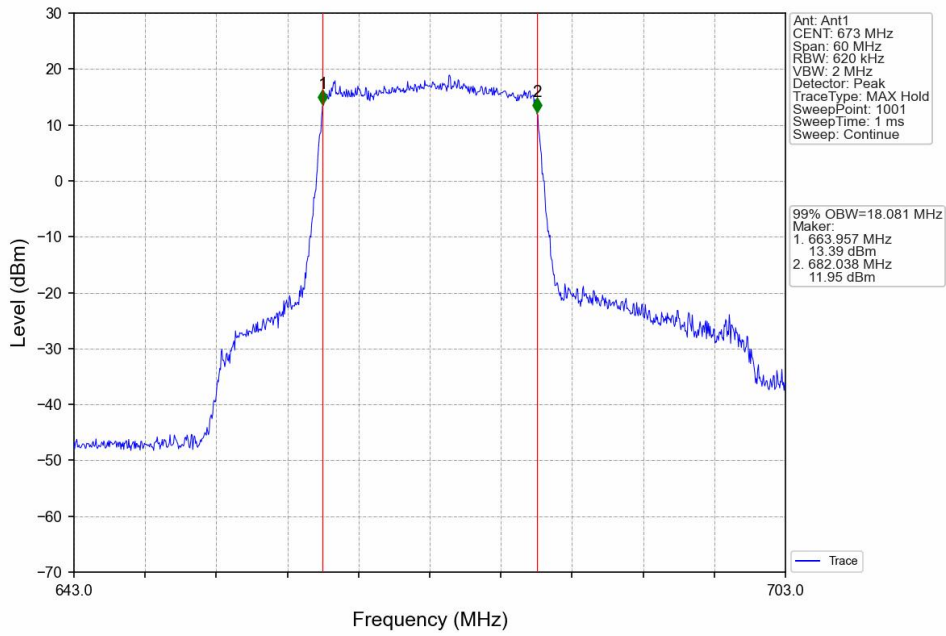
Band71_15MHz_16QAM_MCH_680.5MHz_RB_75_0_NTNV



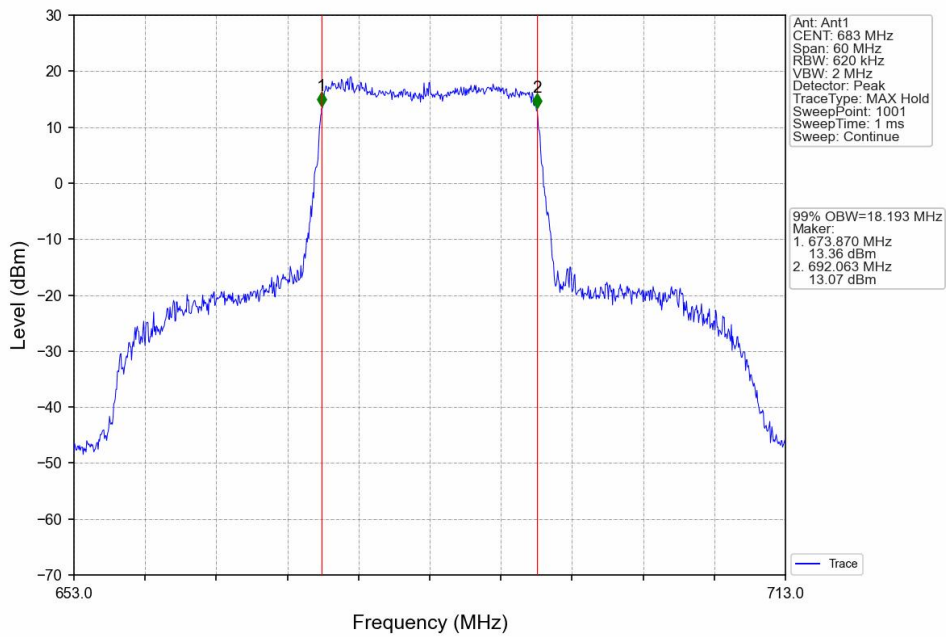
Band71_15MHz_16QAM_HCH_690.5MHz_RB_75_0_NTNV



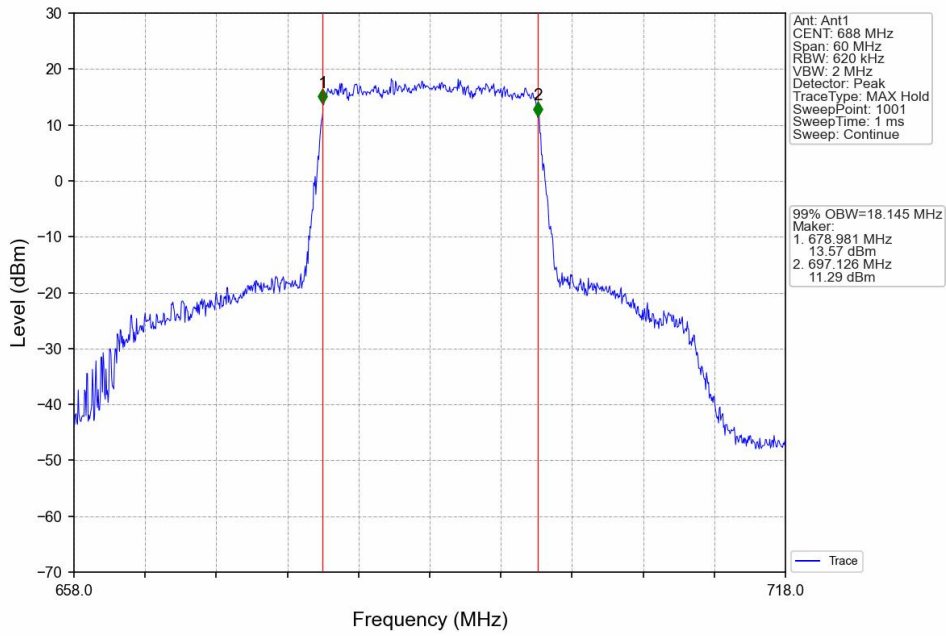
Band71_20MHz_QPSK_LCH_673MHz_RB_100_0_NTNV



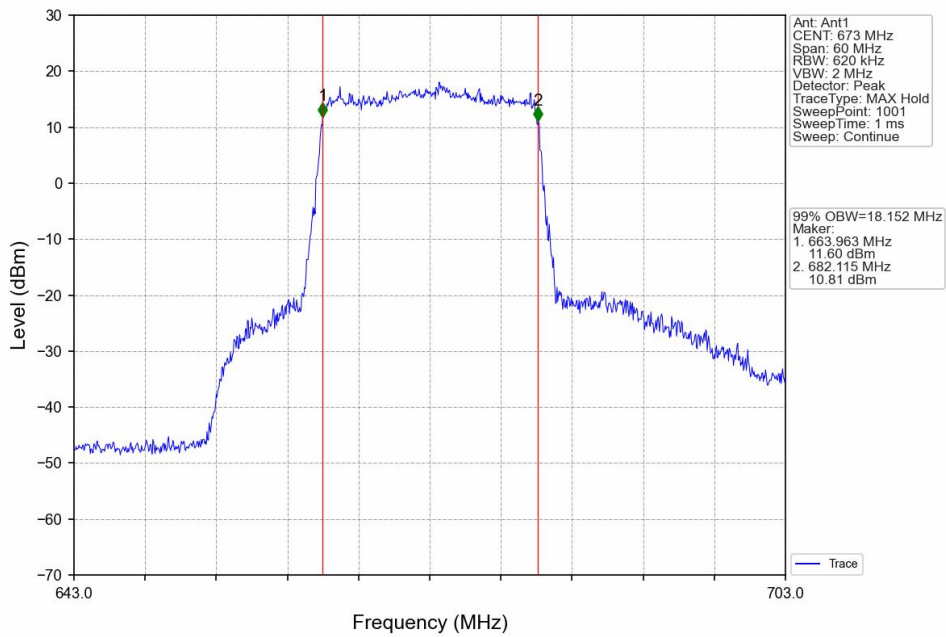
Band71_20MHz_QPSK_MCH_683MHz_RB_100_0_NTNV



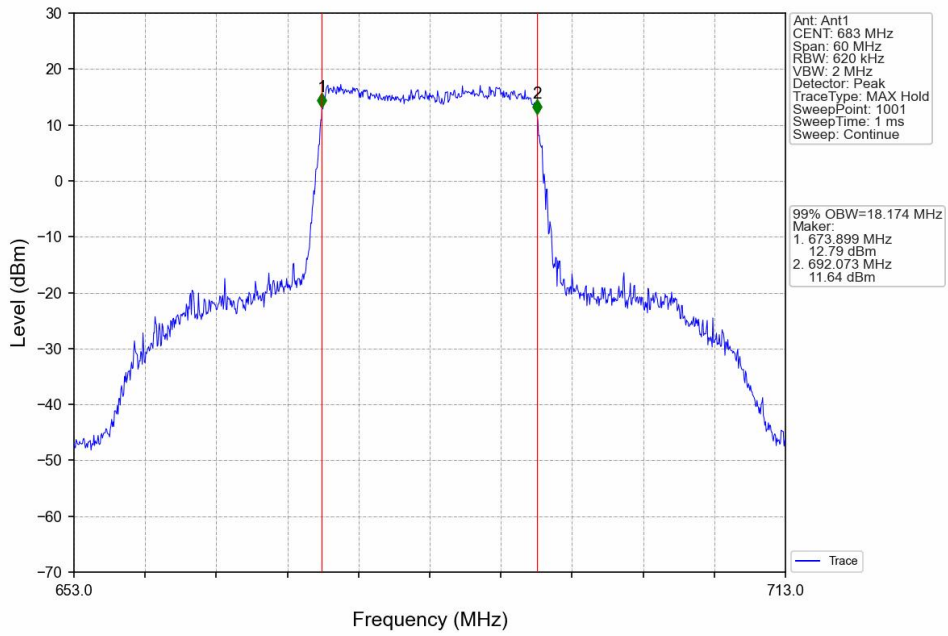
Band71_20MHz_QPSK_HCH_688MHz_RB_100_0_NTNV



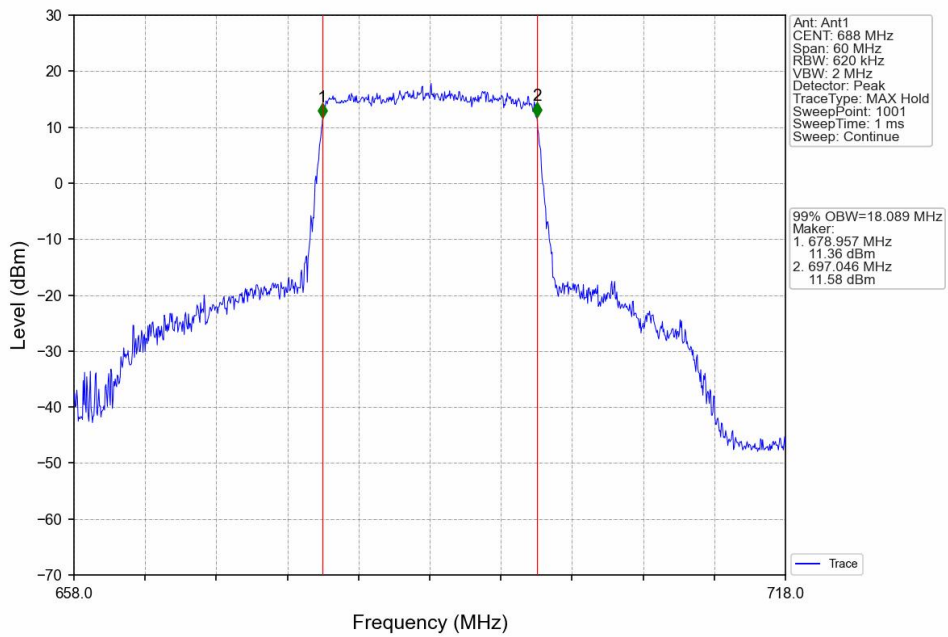
Band71_20MHz_16QAM_LCH_673MHz_RB_100_0_NTNV



Band71_20MHz_16QAM_MCH_683MHz_RB_100_0_NTNV



Band71_20MHz_16QAM_HCH_688MHz_RB_100_0_NTNV

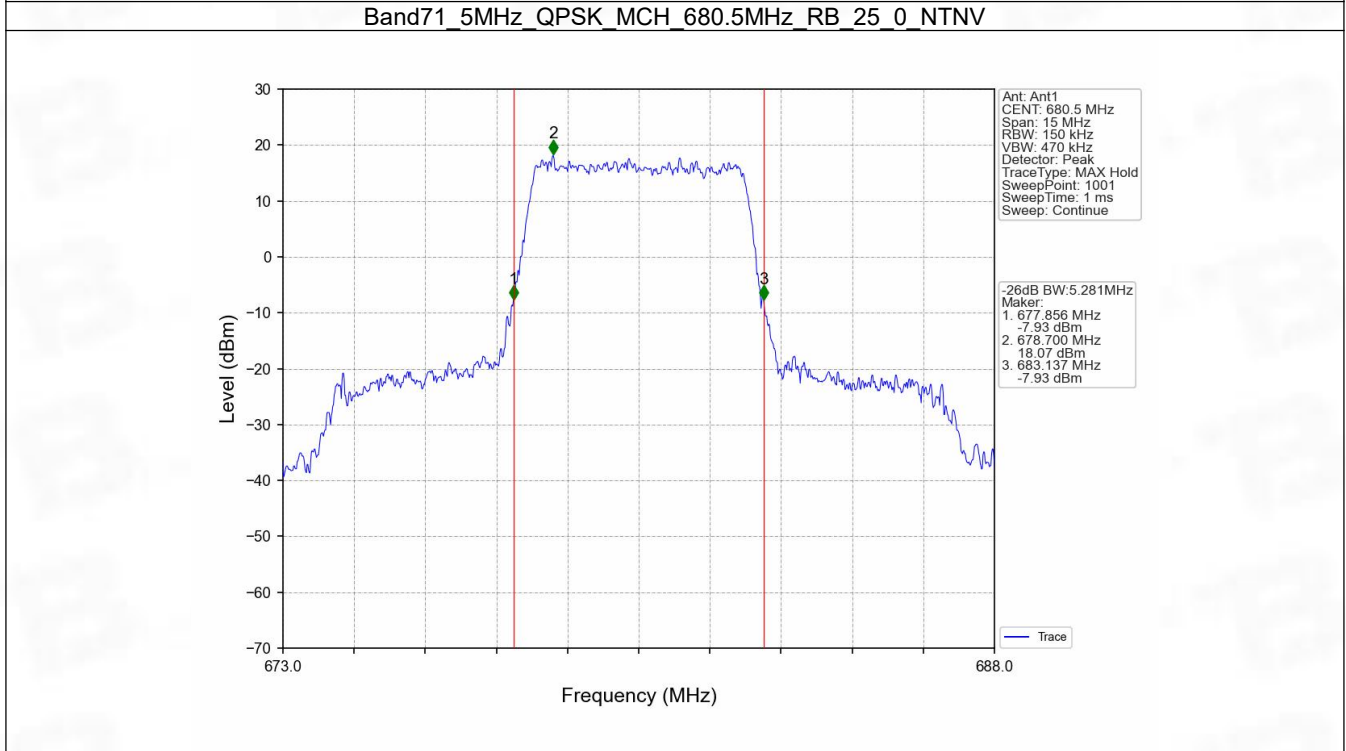
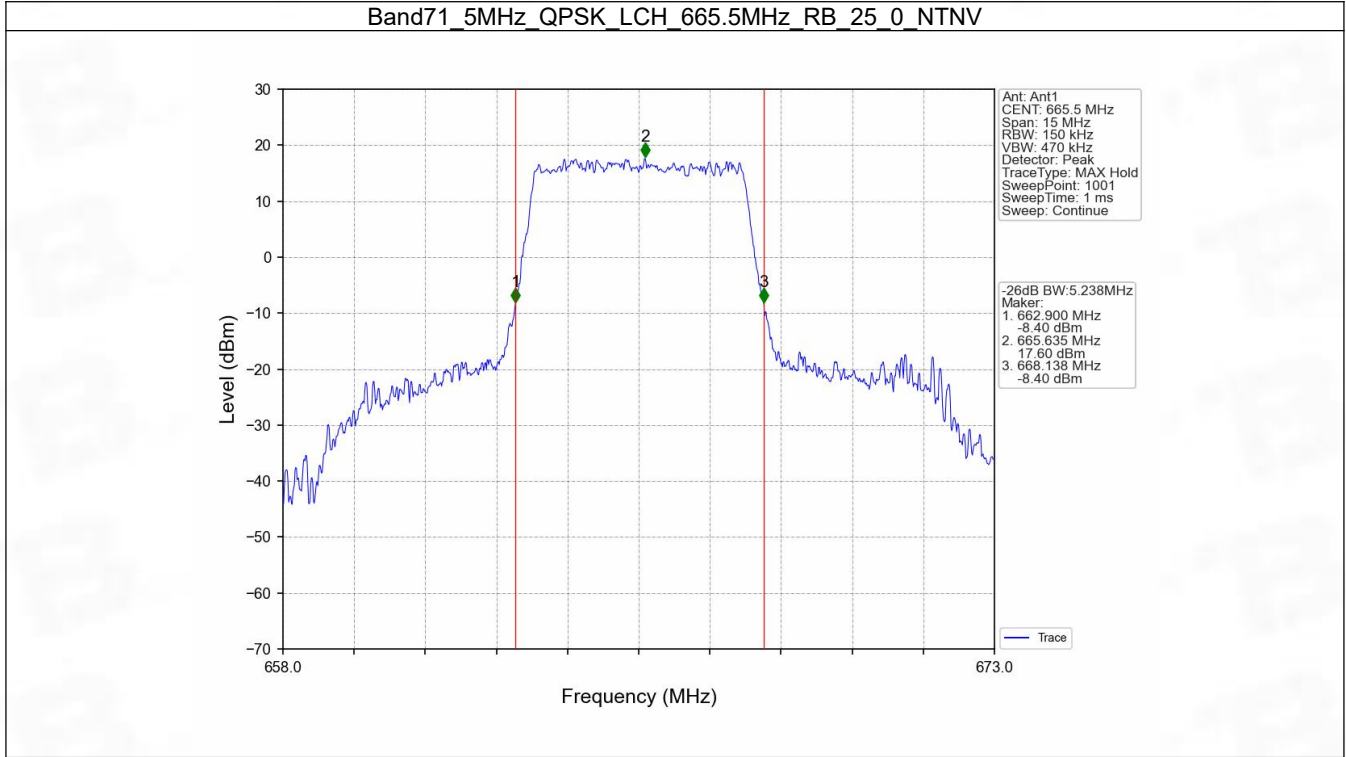


4.2 Band71_XDB

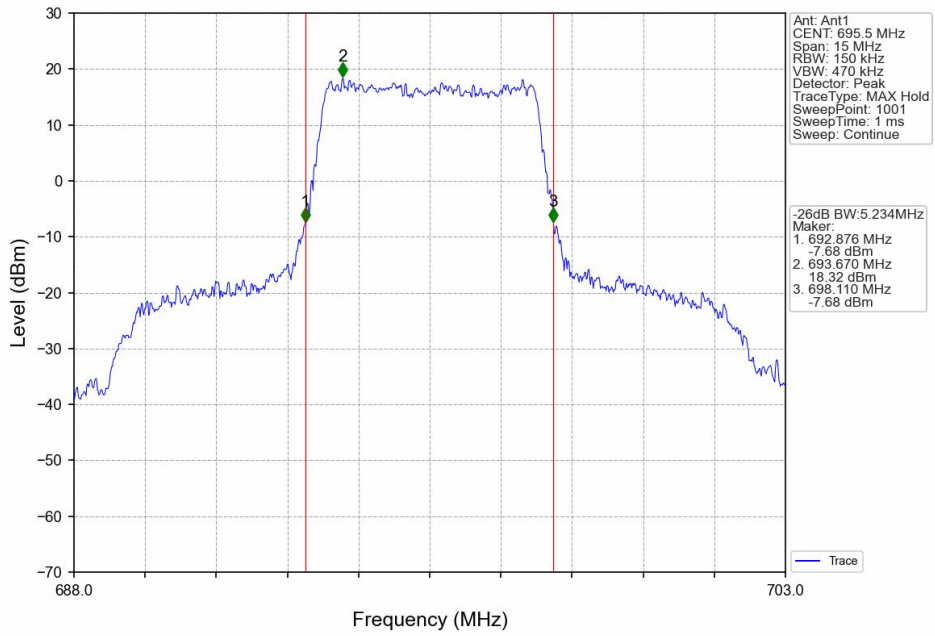
4.2.1 Test Result

Band: 71 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	665.5	25	0	5.238	Pass
		680.5	25	0	5.281	Pass
		695.5	25	0	5.234	Pass
	16QAM	665.5	25	0	5.296	Pass
		680.5	25	0	5.297	Pass
		695.5	25	0	5.303	Pass
10	QPSK	668	50	0	10.347	Pass
		680.5	50	0	10.205	Pass
		693	50	0	10.433	Pass
	16QAM	668	50	0	10.235	Pass
		680.5	50	0	10.250	Pass
		693	50	0	10.238	Pass
15	QPSK	670.5	75	0	15.238	Pass
		680.5	75	0	15.262	Pass
		690.5	75	0	15.220	Pass
	16QAM	670.5	75	0	15.306	Pass
		680.5	75	0	15.426	Pass
		690.5	75	0	15.246	Pass
20	QPSK	673	100	0	19.826	Pass
		683	100	0	20.189	Pass
		688	100	0	20.069	Pass
	16QAM	673	100	0	20.087	Pass
		683	100	0	20.305	Pass
		688	100	0	20.098	Pass

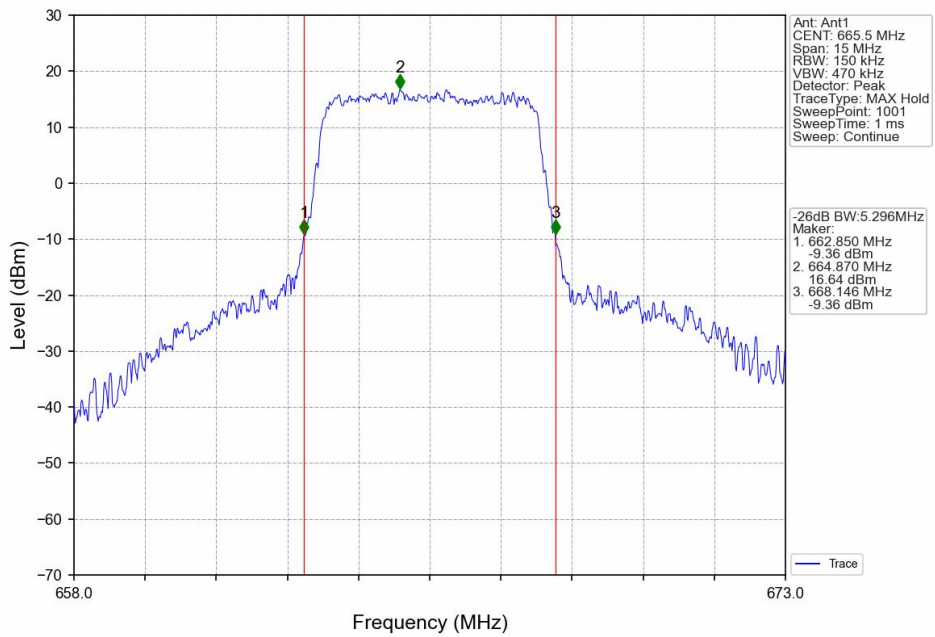
4.2.2 Test Graph



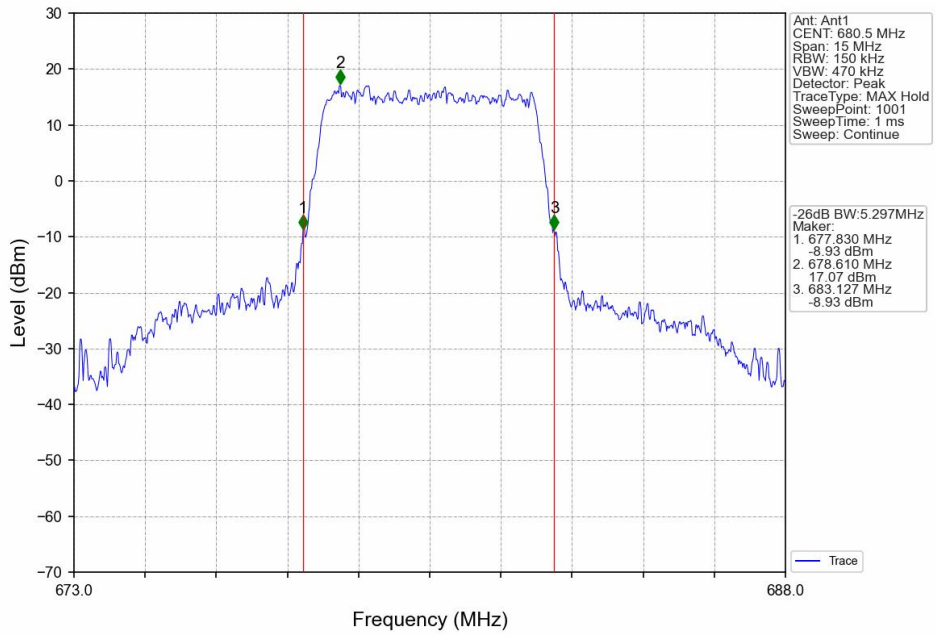
Band71_5MHz_QPSK_HCH_695.5MHz_RB_25_0_NTNV



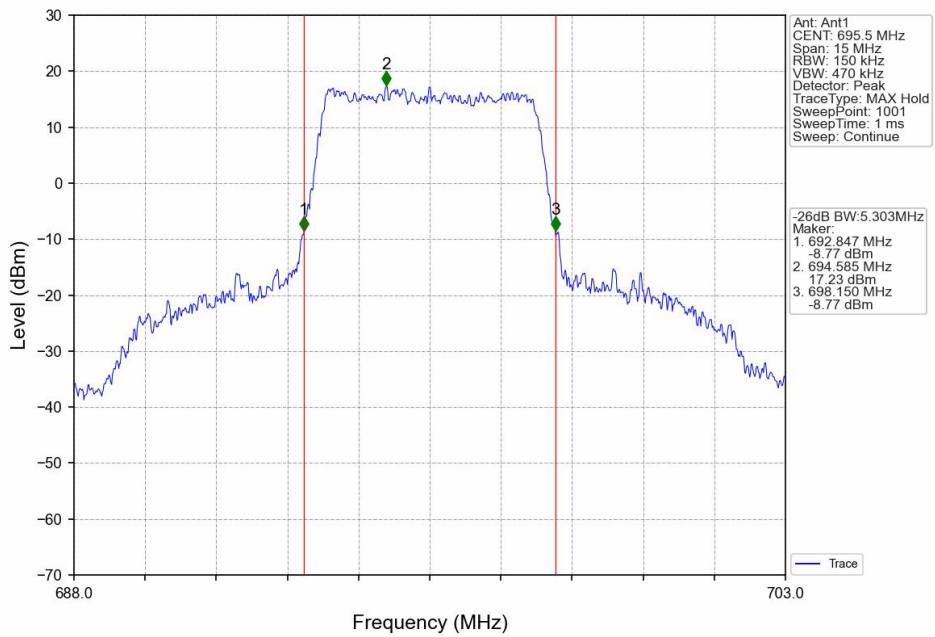
Band71_5MHz_16QAM_LCH_665.5MHz_RB_25_0_NTNV



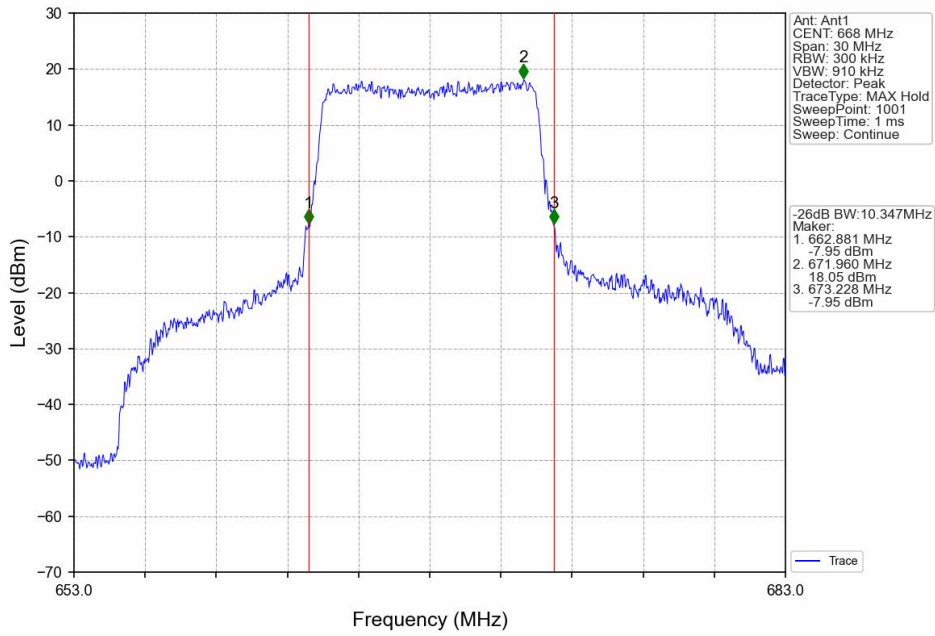
Band71_5MHz_16QAM_MCH_680.5MHz_RB_25_0_NTNV



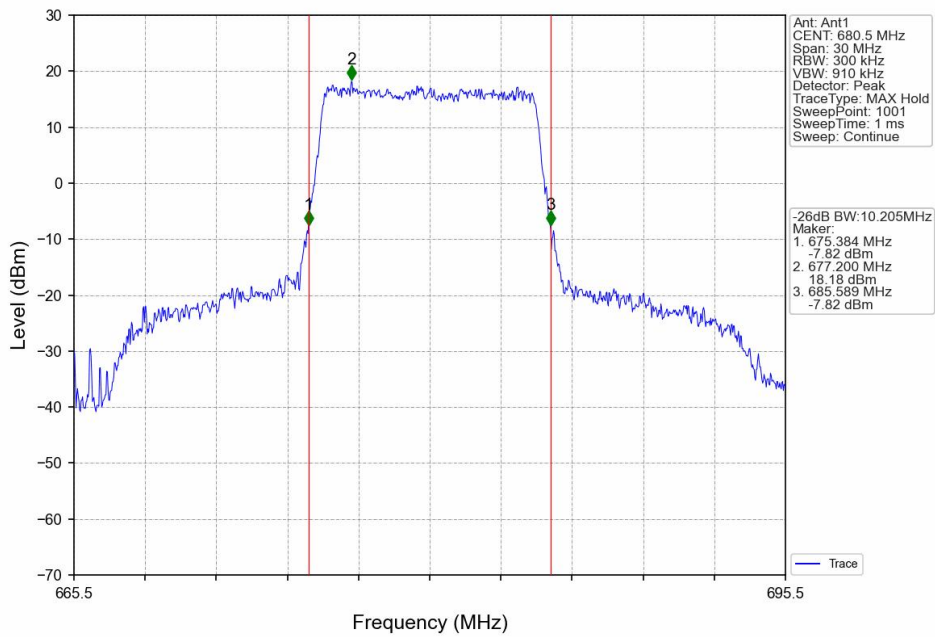
Band71_5MHz_16QAM_HCH_695.5MHz_RB_25_0_NTNV



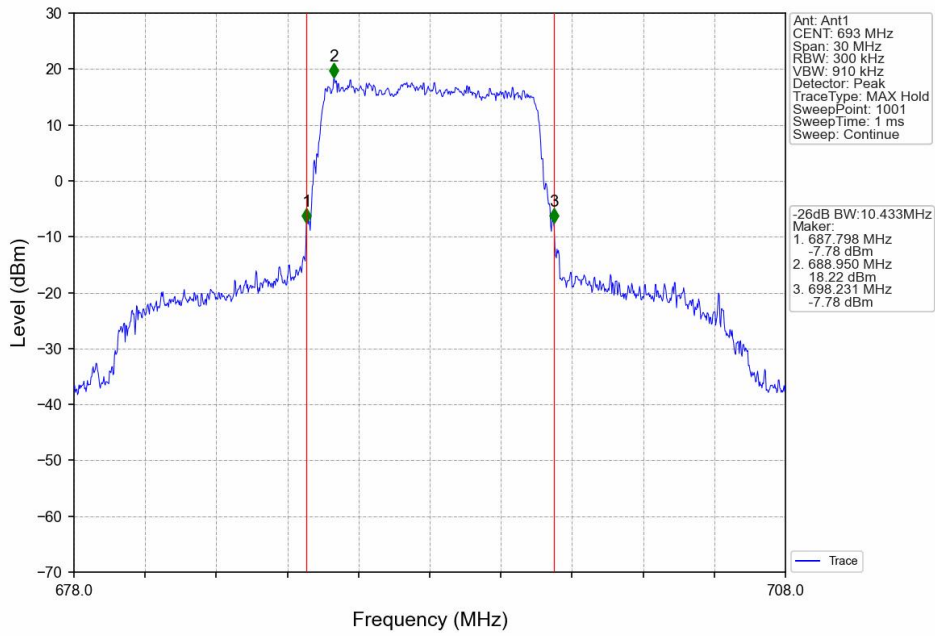
Band71 10MHz QPSK LCH 668MHz RB 50 0 NTN



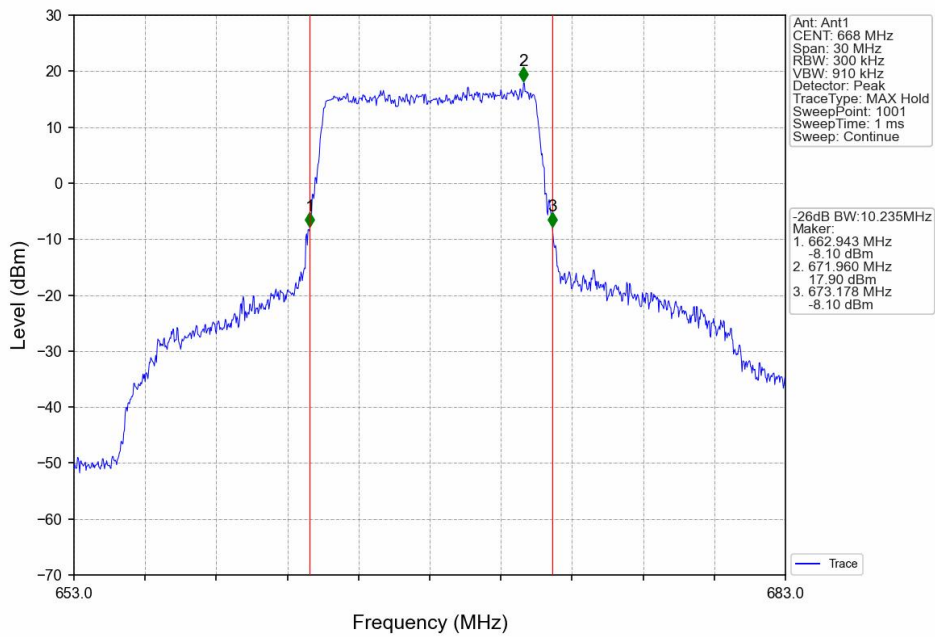
Band71 10MHz QPSK MCH 680.5MHz RB 50 0 NTN



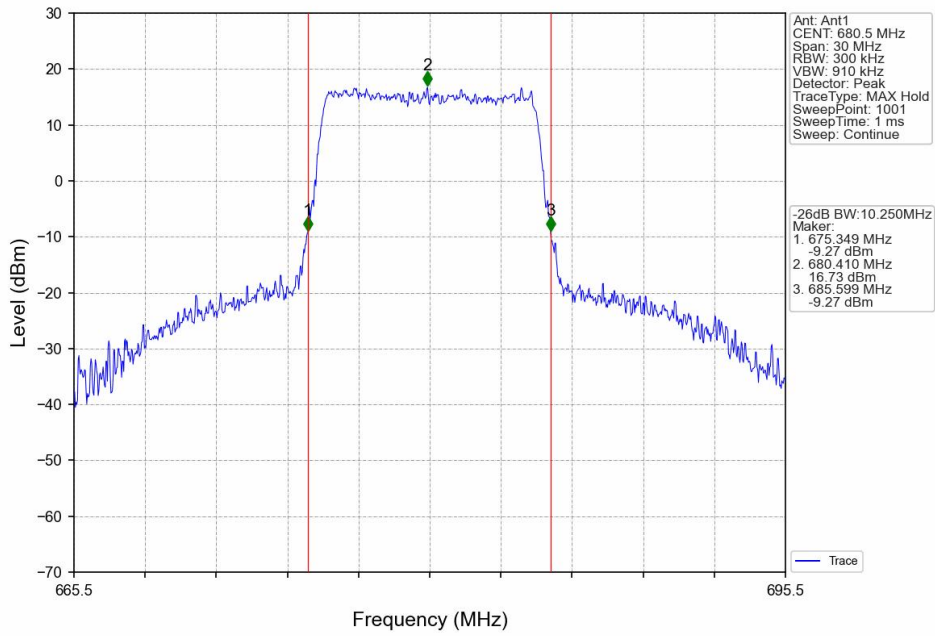
Band71_10MHz_QPSK_HCH_693MHz_RB_50_0_NTNV



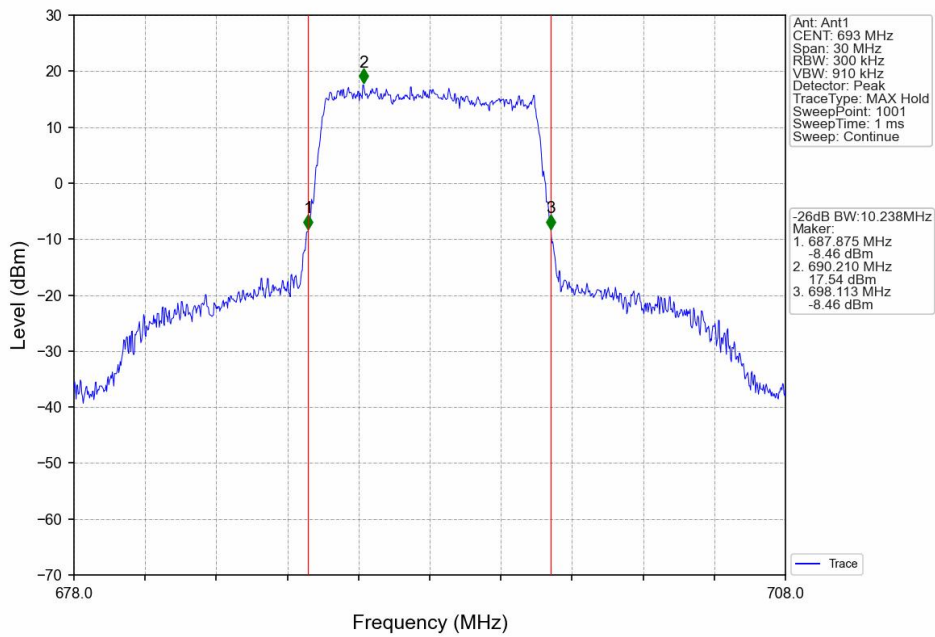
Band71_10MHz_16QAM_LCH_668MHz_RB_50_0_NTNV



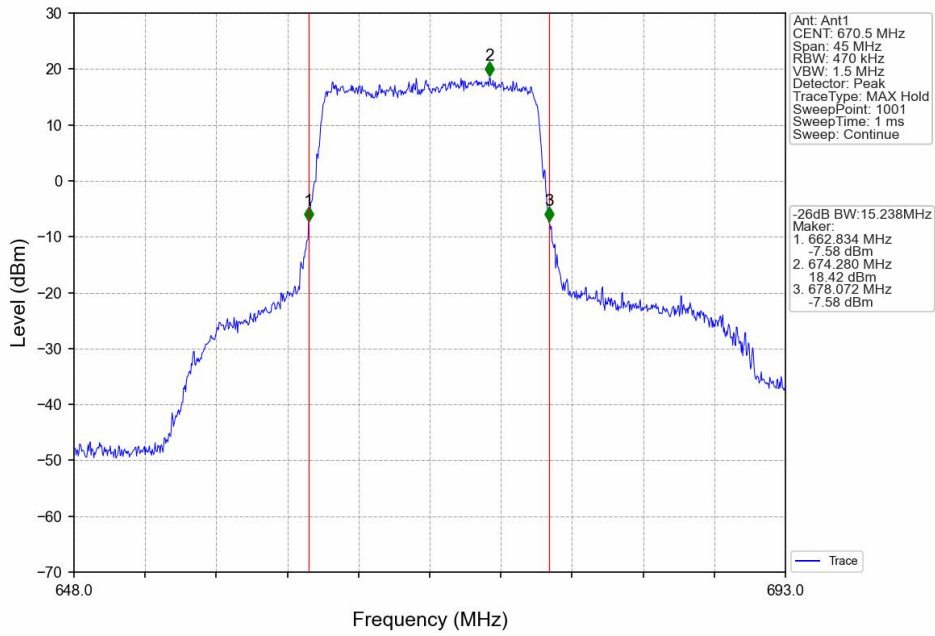
Band71_10MHz_16QAM_MCH_680.5MHz_RB_50_0_NTNV



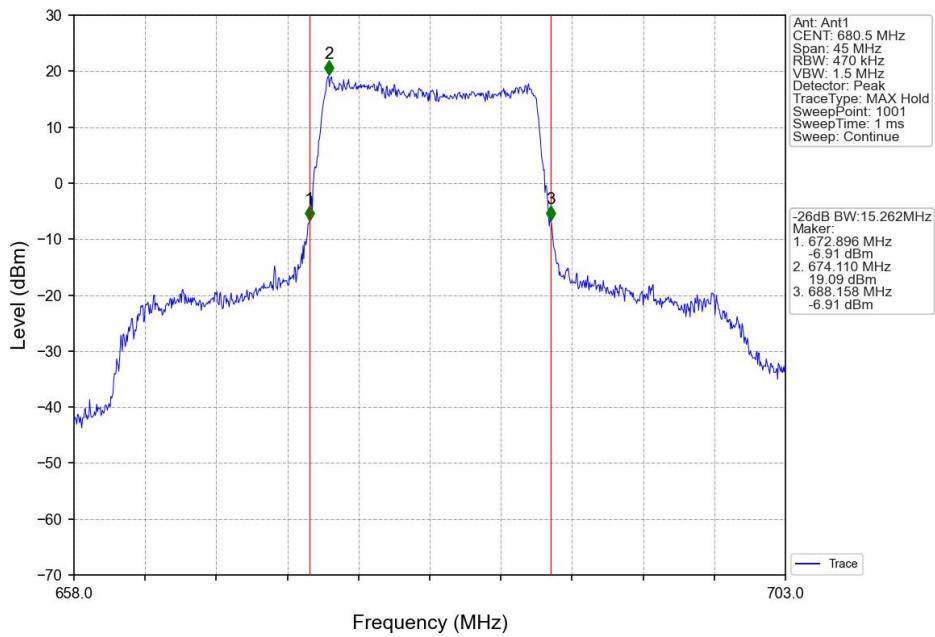
Band71_10MHz_16QAM_HCH_693MHz_RB_50_0_NTNV



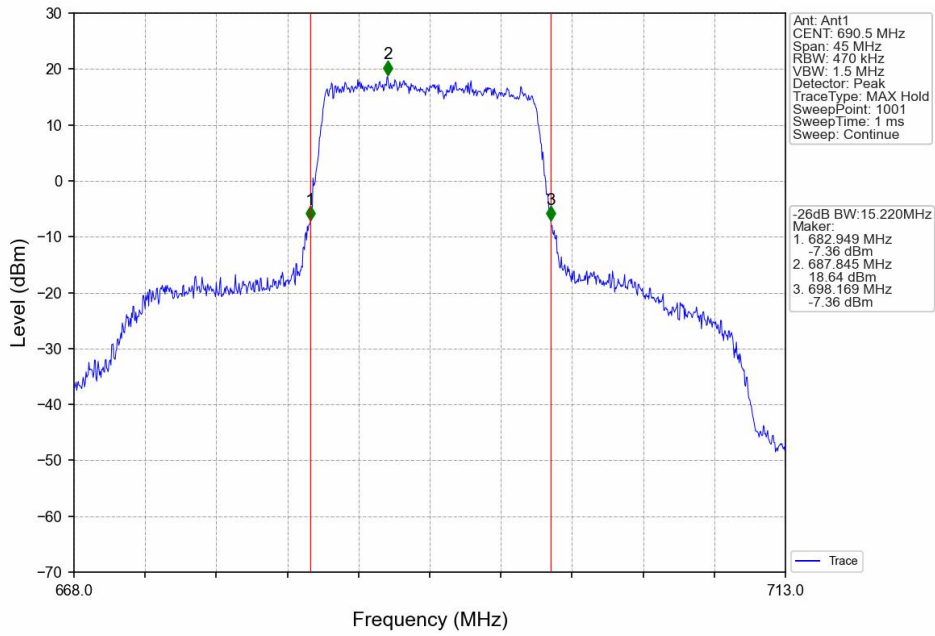
Band71_15MHz_QPSK_LCH_670.5MHz_RB_75_0_NTNV



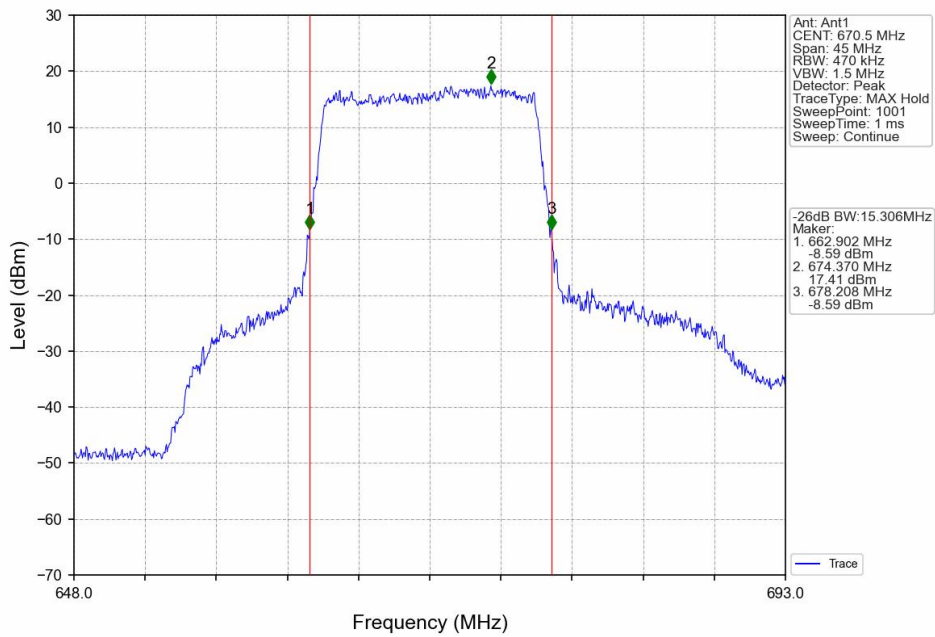
Band71_15MHz_QPSK_MCH_680.5MHz_RB_75_0_NTNV



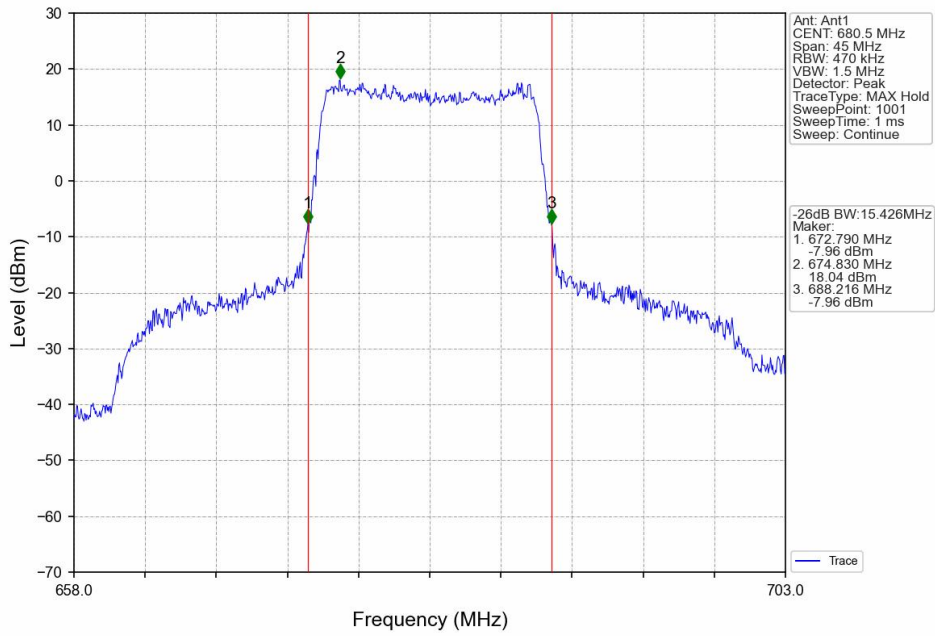
Band71_15MHz_QPSK_HCH_690.5MHz_RB_75_0_NTNV



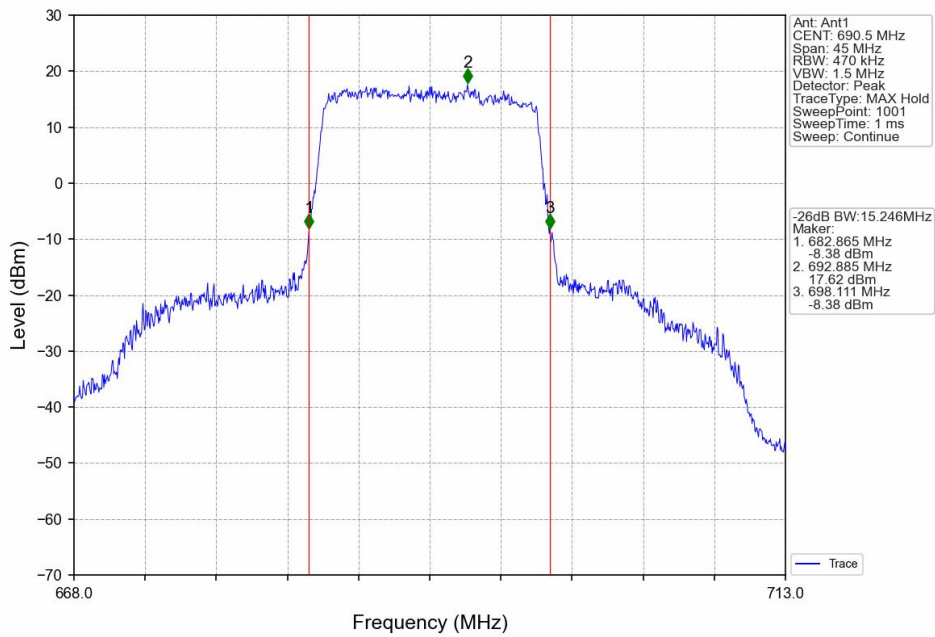
Band71_15MHz_16QAM_LCH_670.5MHz_RB_75_0_NTNV



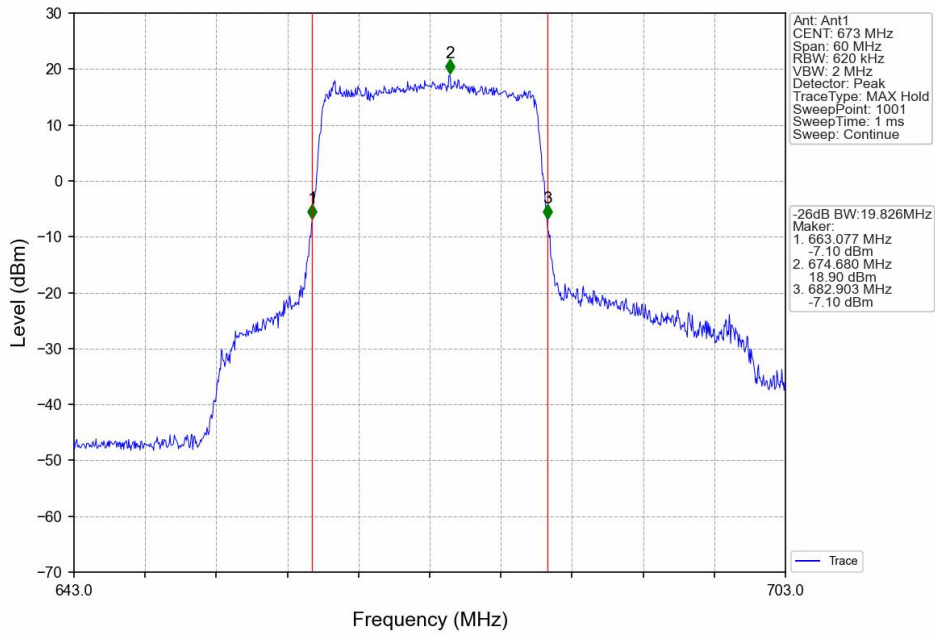
Band71_15MHz_16QAM_MCH_680.5MHz_RB_75_0_NTNV



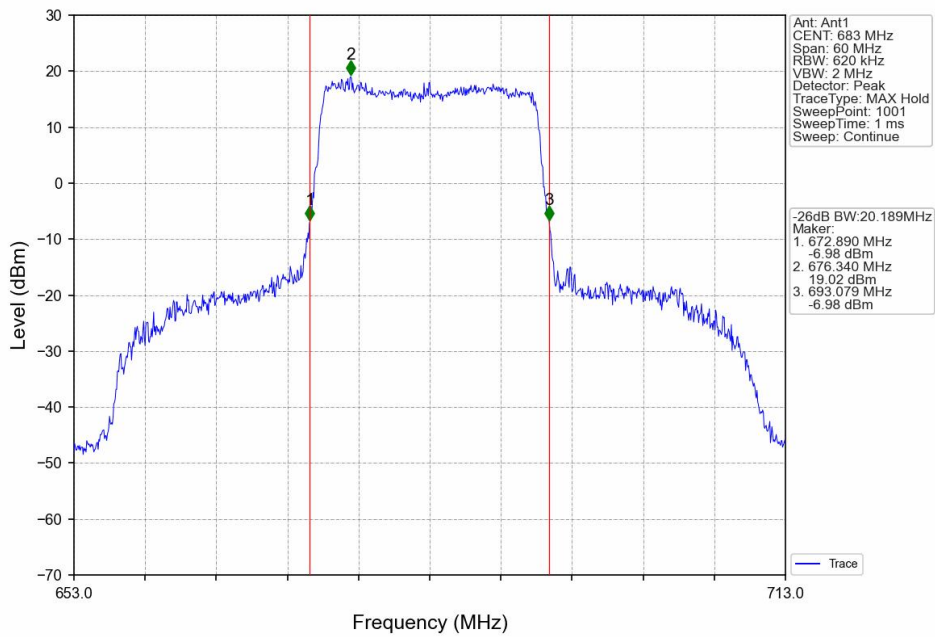
Band71_15MHz_16QAM_HCH_690.5MHz_RB_75_0_NTNV



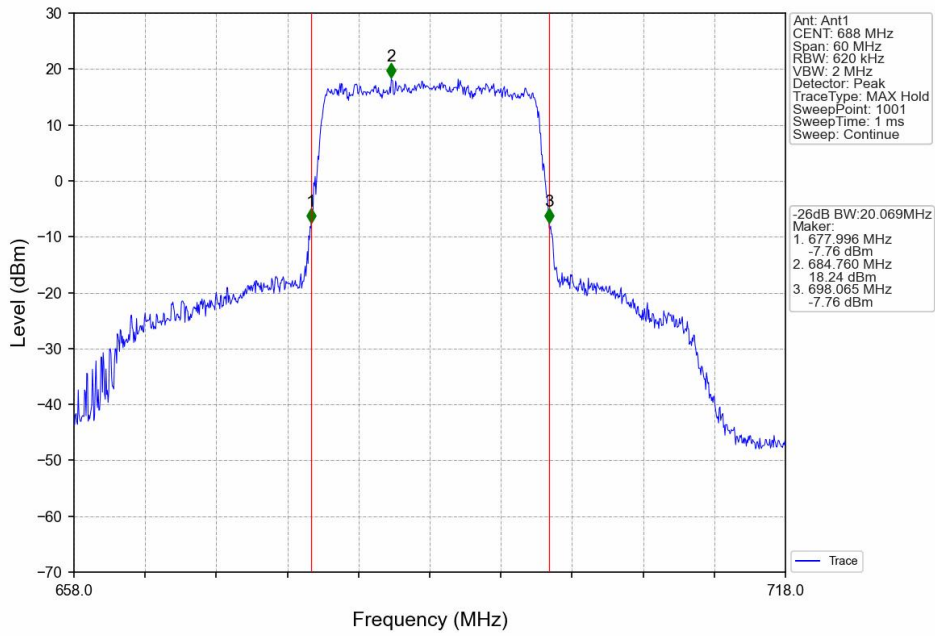
Band71_20MHz_QPSK_LCH_673MHz_RB_100_0_NTNV



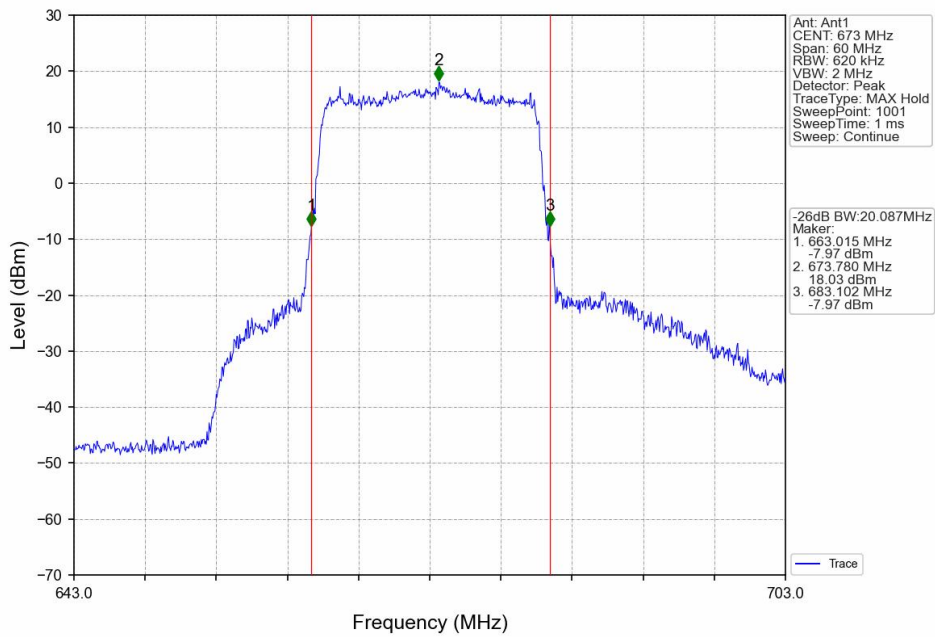
Band71_20MHz_QPSK_MCH_683MHz_RB_100_0_NTNV



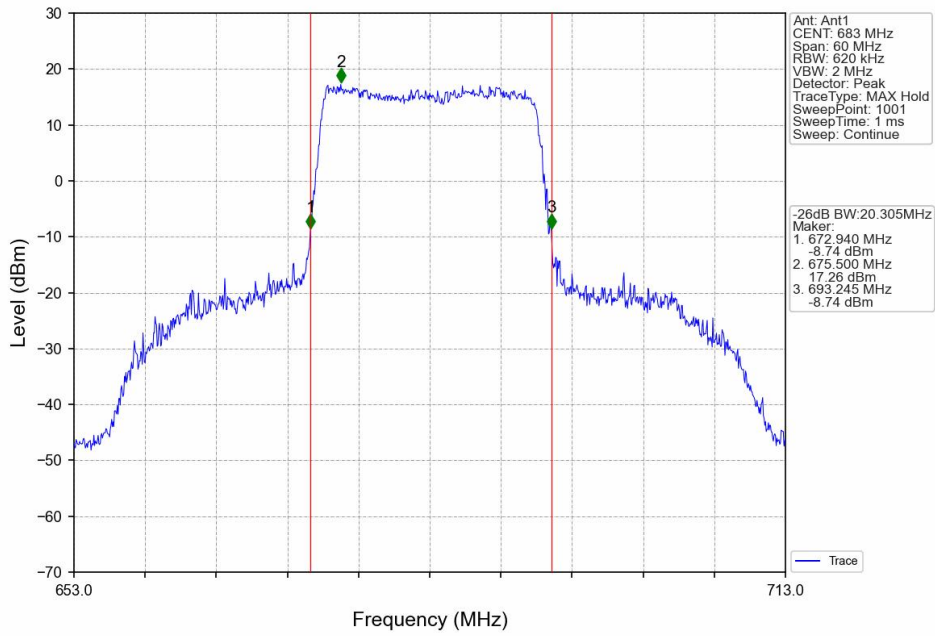
Band71_20MHz_QPSK_HCH_688MHz_RB_100_0_NTNV



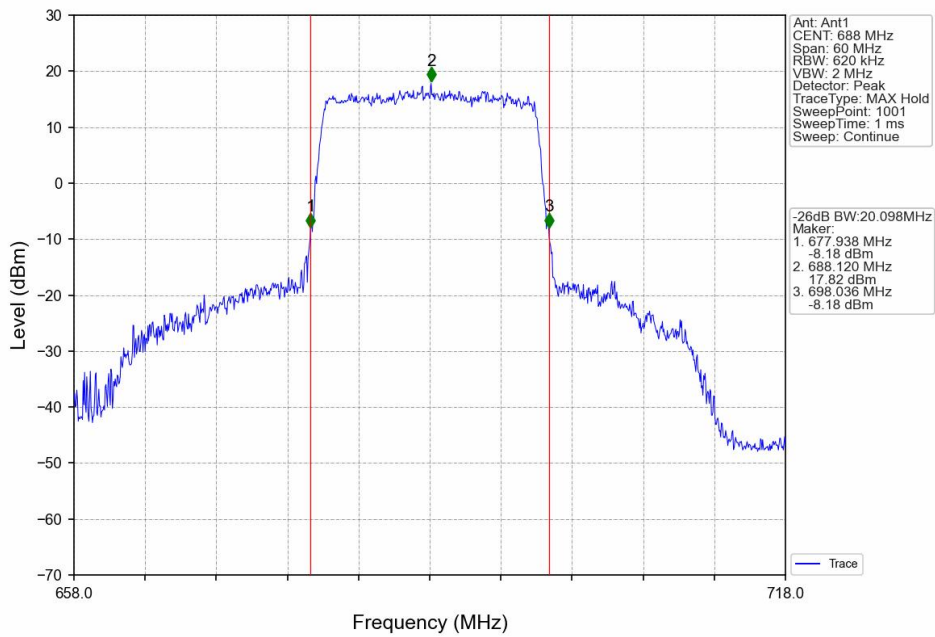
Band71_20MHz_16QAM_LCH_673MHz_RB_100_0_NTNV



Band71_20MHz_16QAM_MCH_683MHz_RB_100_0_NTNV



Band71_20MHz_16QAM_HCH_688MHz_RB_100_0_NTNV



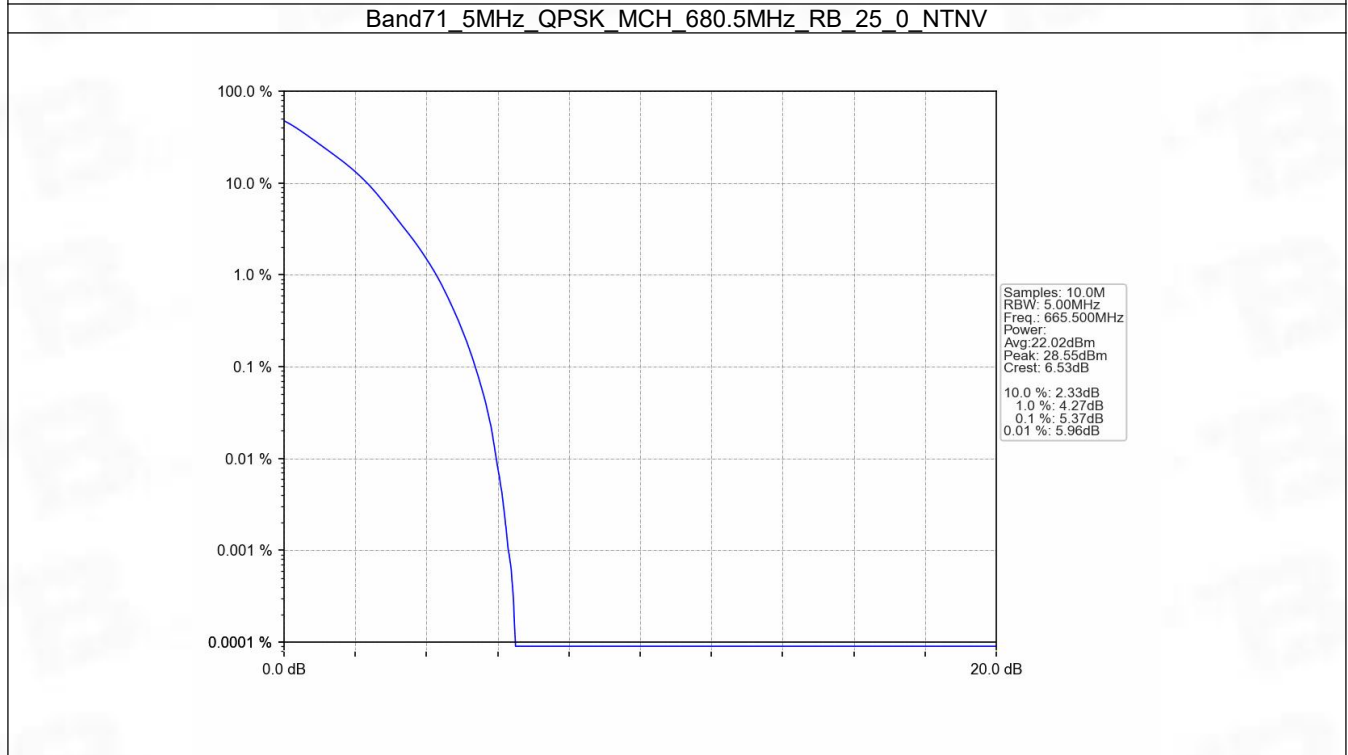
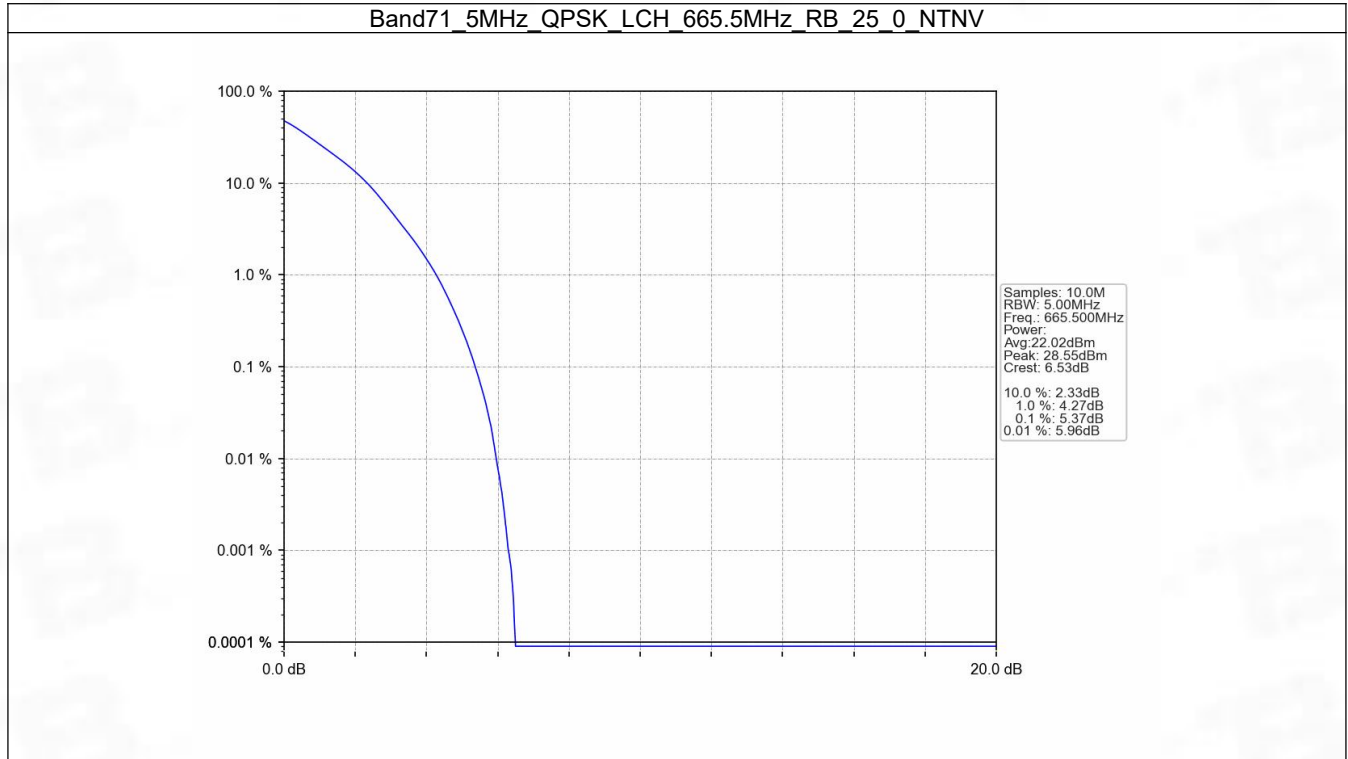
5. Peak-Average Ratio

5.1 B71_5MHz

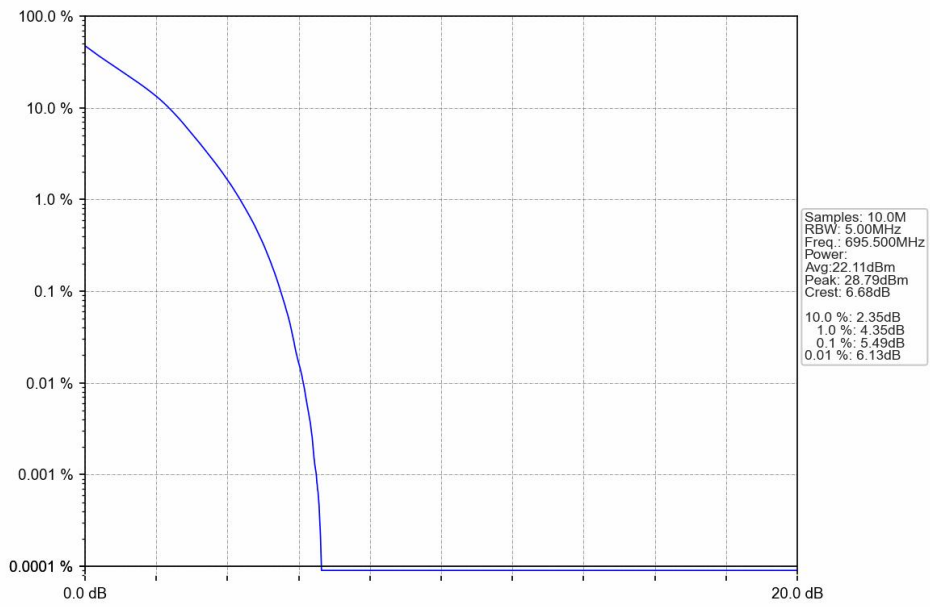
5.1.1 Test Result

Band: 71 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	665.5	25	0	5.37	<=13	Pass
	680.5	25	0	5.53	<=13	Pass
	695.5	25	0	5.49	<=13	Pass
16QAM	665.5	25	0	6.14	<=13	Pass
	680.5	25	0	6.22	<=13	Pass
	695.5	25	0	6.17	<=13	Pass

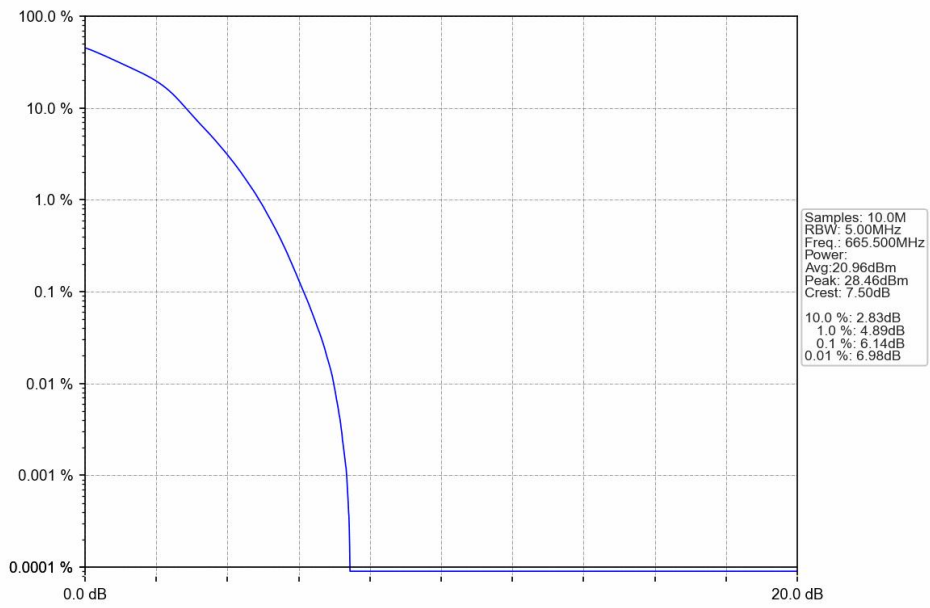
5.1.2 Test Graph



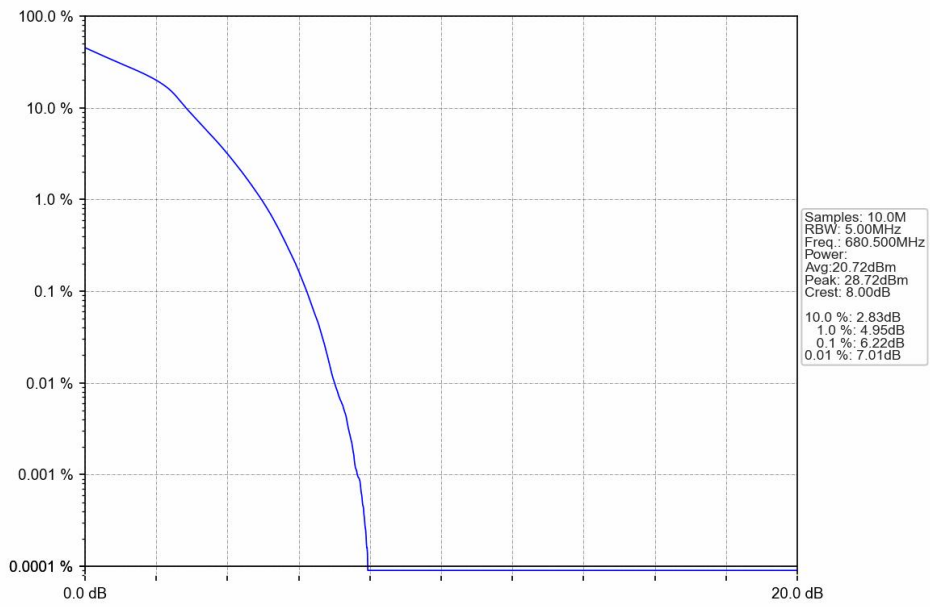
Band71_5MHz_QPSK_HCH_695.5MHz_RB_25_0_NTNV



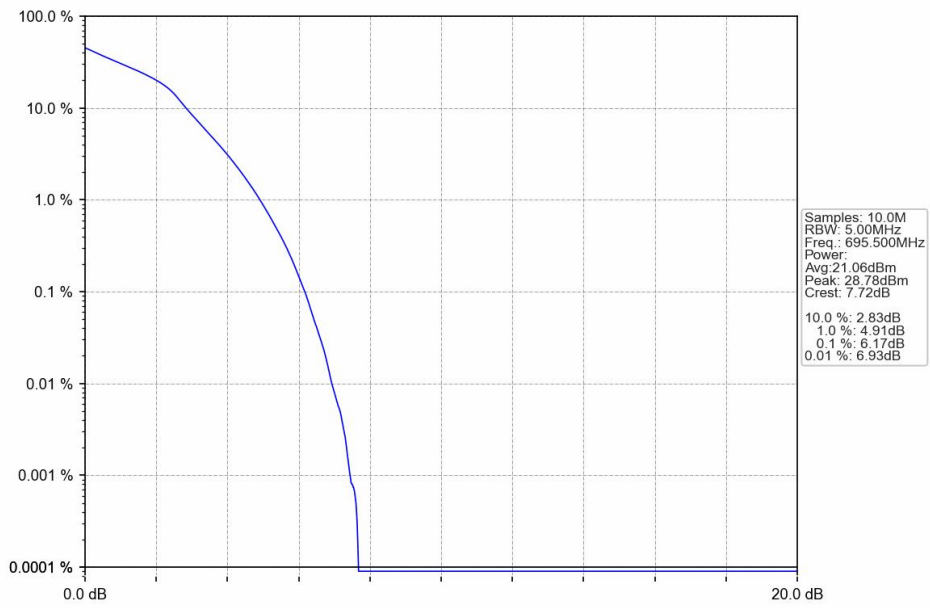
Band71_5MHz_16QAM_LCH_665.5MHz_RB_25_0_NTNV



Band71_5MHz_16QAM_MCH_680.5MHz_RB_25_0_NTNV



Band71_5MHz_16QAM_HCH_695.5MHz_RB_25_0_NTNV



5.2 B71_10MHz

5.2.1 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	5.42	<=13	Pass
	680.5	50	0	5.45	<=13	Pass
	693	50	0	5.55	<=13	Pass
16QAM	668	50	0	6.22	<=13	Pass
	680.5	50	0	6.25	<=13	Pass
	693	50	0	6.26	<=13	Pass