

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B12_1.4MHz_ERP

Band: 12 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	699.7	1	0	23.64	-1.18	20.31	<=34.77	Pass
			2	23.71	-1.18	20.38	<=34.77	Pass
			5	23.68	-1.18	20.35	<=34.77	Pass
		3	0	23.82	-1.18	20.49	<=34.77	Pass
			2	23.51	-1.18	20.18	<=34.77	Pass
			3	23.40	-1.18	20.07	<=34.77	Pass
		6	0	22.36	-1.18	19.03	<=34.77	Pass
	707.5	1	0	23.66	-1.18	20.33	<=34.77	Pass
			2	23.69	-1.18	20.36	<=34.77	Pass
			5	23.62	-1.18	20.29	<=34.77	Pass
		3	0	23.42	-1.18	20.09	<=34.77	Pass
			2	23.46	-1.18	20.13	<=34.77	Pass
			3	23.42	-1.18	20.09	<=34.77	Pass
		6	0	22.80	-1.18	19.47	<=34.77	Pass
	715.3	1	0	23.69	-1.18	20.36	<=34.77	Pass
			2	23.75	-1.18	20.42	<=34.77	Pass
			5	23.71	-1.18	20.38	<=34.77	Pass
		3	0	23.36	-1.18	20.03	<=34.77	Pass
			2	23.34	-1.18	20.01	<=34.77	Pass
			3	23.32	-1.18	19.99	<=34.77	Pass
		6	0	22.88	-1.18	19.55	<=34.77	Pass
16QAM	699.7	1	0	22.25	-1.18	18.92	<=34.77	Pass
			2	22.32	-1.18	18.99	<=34.77	Pass
			5	22.30	-1.18	18.97	<=34.77	Pass
		3	0	22.44	-1.18	19.11	<=34.77	Pass
			2	22.45	-1.18	19.12	<=34.77	Pass
			3	22.50	-1.18	19.17	<=34.77	Pass
		6	0	21.39	-1.18	18.06	<=34.77	Pass
	707.5	1	0	22.51	-1.18	19.18	<=34.77	Pass
			2	22.55	-1.18	19.22	<=34.77	Pass
			5	22.50	-1.18	19.17	<=34.77	Pass
		3	0	22.21	-1.18	18.88	<=34.77	Pass
			2	22.26	-1.18	18.93	<=34.77	Pass
			3	22.26	-1.18	18.93	<=34.77	Pass
		6	0	21.54	-1.18	18.21	<=34.77	Pass
	715.3	1	0	22.34	-1.18	19.01	<=34.77	Pass
			2	22.37	-1.18	19.04	<=34.77	Pass
			5	22.34	-1.18	19.01	<=34.77	Pass
		3	0	22.27	-1.18	18.94	<=34.77	Pass
			2	22.27	-1.18	18.94	<=34.77	Pass
			3	22.24	-1.18	18.91	<=34.77	Pass
		6	0	21.53	-1.18	18.20	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B12_3MHz_ERP

Note1: $ERP = \text{Conducted Power} + \text{Antenna Gain} - 2.15$

Band: 12 / Bandwidth: 5MHz / NTVN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	701.5	1	0	23.36	-1.18	20.03	<=34.77	Pass
			13	23.57	-1.18	20.24	<=34.77	Pass
			24	23.52	-1.18	20.19	<=34.77	Pass
		12	0	22.50	-1.18	19.17	<=34.77	Pass

16QAM	707.5	25	6	22.53	-1.18	19.20	<=34.77	Pass
			13	22.55	-1.18	19.22	<=34.77	Pass
			0	22.52	-1.18	19.19	<=34.77	Pass
		1	0	23.63	-1.18	20.30	<=34.77	Pass
			13	23.79	-1.18	20.46	<=34.77	Pass
			24	23.51	-1.18	20.18	<=34.77	Pass
		12	0	22.37	-1.18	19.04	<=34.77	Pass
			6	22.52	-1.18	19.19	<=34.77	Pass
			13	22.38	-1.18	19.05	<=34.77	Pass
		25	0	22.34	-1.18	19.01	<=34.77	Pass
	713.5	1	0	23.48	-1.18	20.15	<=34.77	Pass
			13	23.76	-1.18	20.43	<=34.77	Pass
			24	23.74	-1.18	20.41	<=34.77	Pass
		12	0	22.53	-1.18	19.20	<=34.77	Pass
			6	22.59	-1.18	19.26	<=34.77	Pass
			13	22.54	-1.18	19.21	<=34.77	Pass
		25	0	22.57	-1.18	19.24	<=34.77	Pass
	701.5	1	0	22.25	-1.18	18.92	<=34.77	Pass
			13	22.47	-1.18	19.14	<=34.77	Pass
			24	22.25	-1.18	18.92	<=34.77	Pass
		12	0	21.55	-1.18	18.22	<=34.77	Pass
			6	21.52	-1.18	18.19	<=34.77	Pass
			13	21.61	-1.18	18.28	<=34.77	Pass
		25	0	21.65	-1.18	18.32	<=34.77	Pass
	707.5	1	0	22.46	-1.18	19.13	<=34.77	Pass
			13	22.58	-1.18	19.25	<=34.77	Pass
			24	22.55	-1.18	19.22	<=34.77	Pass
		12	0	21.23	-1.18	17.90	<=34.77	Pass
			6	21.38	-1.18	18.05	<=34.77	Pass
			13	21.27	-1.18	17.94	<=34.77	Pass
		25	0	21.31	-1.18	17.98	<=34.77	Pass
	713.5	1	0	22.79	-1.18	19.46	<=34.77	Pass
			13	22.76	-1.18	19.43	<=34.77	Pass
			24	22.70	-1.18	19.37	<=34.77	Pass
		12	0	21.64	-1.18	18.31	<=34.77	Pass
			6	21.64	-1.18	18.31	<=34.77	Pass
			13	21.49	-1.18	18.16	<=34.77	Pass
		25	0	21.54	-1.18	18.21	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.4 B12_10MHz_ERP

Band: 12 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	704	1	0	23.48	-1.18	20.15	<=34.77	Pass
			25	23.72	-1.18	20.39	<=34.77	Pass
			49	23.81	-1.18	20.48	<=34.77	Pass
		25	0	22.38	-1.18	19.05	<=34.77	Pass
			13	22.54	-1.18	19.21	<=34.77	Pass
			25	22.54	-1.18	19.21	<=34.77	Pass
	707.5	50	0	22.52	-1.18	19.19	<=34.77	Pass
		1	0	23.49	-1.18	20.16	<=34.77	Pass
			25	23.77	-1.18	20.44	<=34.77	Pass
			49	23.64	-1.18	20.31	<=34.77	Pass
		25	0	22.25	-1.18	18.92	<=34.77	Pass

		50	13	22.48	-1.18	19.15	<=34.77	Pass
			25	22.29	-1.18	18.96	<=34.77	Pass
			0	22.35	-1.18	19.02	<=34.77	Pass
	711	1	0	23.79	-1.18	20.46	<=34.77	Pass
			25	23.60	-1.18	20.27	<=34.77	Pass
			49	23.86	-1.18	20.53	<=34.77	Pass
		25	0	22.64	-1.18	19.31	<=34.77	Pass
			13	22.57	-1.18	19.24	<=34.77	Pass
			25	22.58	-1.18	19.25	<=34.77	Pass
		50	0	22.61	-1.18	19.28	<=34.77	Pass
16QAM	704	1	0	22.50	-1.18	19.17	<=34.77	Pass
			25	22.51	-1.18	19.18	<=34.77	Pass
			49	22.53	-1.18	19.20	<=34.77	Pass
		25	0	21.60	-1.18	18.27	<=34.77	Pass
			13	21.57	-1.18	18.24	<=34.77	Pass
			25	21.53	-1.18	18.20	<=34.77	Pass
		50	0	21.55	-1.18	18.22	<=34.77	Pass
	707.5	1	0	22.64	-1.18	19.31	<=34.77	Pass
			25	22.66	-1.18	19.33	<=34.77	Pass
			49	22.74	-1.18	19.41	<=34.77	Pass
		25	0	21.20	-1.18	17.87	<=34.77	Pass
			13	21.44	-1.18	18.11	<=34.77	Pass
			25	21.27	-1.18	17.94	<=34.77	Pass
		50	0	21.28	-1.18	17.95	<=34.77	Pass
	711	1	0	22.81	-1.18	19.48	<=34.77	Pass
			25	23.21	-1.18	19.88	<=34.77	Pass
			49	22.90	-1.18	19.57	<=34.77	Pass
		25	0	21.69	-1.18	18.36	<=34.77	Pass
			13	21.70	-1.18	18.37	<=34.77	Pass
			25	21.72	-1.18	18.39	<=34.77	Pass
		50	0	21.58	-1.18	18.25	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 Test Result

2.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	699.7	6	0	20	3.27	-7.453	-0.0107	-2.5 to 2.5	Pass
					3.85	-3.834	-0.0055	-2.5 to 2.5	Pass
					4.43	4.377	0.0063	-2.5 to 2.5	Pass
				-30	3.85	4.778	0.0068	-2.5 to 2.5	Pass
				-20	3.85	-8.125	-0.0116	-2.5 to 2.5	Pass
				-10	3.85	1.502	0.0021	-2.5 to 2.5	Pass
				0	3.85	0.157	0.0002	-2.5 to 2.5	Pass
				10	3.85	-3.533	-0.0050	-2.5 to 2.5	Pass
				30	3.85	-3.633	-0.0052	-2.5 to 2.5	Pass
				40	3.85	0.243	0.0003	-2.5 to 2.5	Pass
				50	3.85	-3.977	-0.0057	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	-6.981	-0.0099	-2.5 to 2.5	Pass
					3.85	-3.562	-0.0050	-2.5 to 2.5	Pass

					4.43	3.219	0.0045	-2.5 to 2.5	Pass
				-30	3.85	-0.200	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	-2.246	-0.0032	-2.5 to 2.5	Pass
				-10	3.85	3.605	0.0051	-2.5 to 2.5	Pass
				0	3.85	0.443	0.0006	-2.5 to 2.5	Pass
				10	3.85	-6.537	-0.0092	-2.5 to 2.5	Pass
				30	3.85	-0.086	-0.0001	-2.5 to 2.5	Pass
				40	3.85	1.717	0.0024	-2.5 to 2.5	Pass
				50	3.85	1.216	0.0017	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	-6.466	-0.0090	-2.5 to 2.5	Pass
					3.85	0.143	0.0002	-2.5 to 2.5	Pass
					4.43	-7.997	-0.0112	-2.5 to 2.5	Pass
				-30	3.85	-3.462	-0.0048	-2.5 to 2.5	Pass
				-20	3.85	-3.347	-0.0047	-2.5 to 2.5	Pass
				-10	3.85	-0.544	-0.0008	-2.5 to 2.5	Pass
				0	3.85	-4.950	-0.0069	-2.5 to 2.5	Pass
				10	3.85	-0.672	-0.0009	-2.5 to 2.5	Pass
				30	3.85	4.249	0.0059	-2.5 to 2.5	Pass
				40	3.85	0.300	0.0004	-2.5 to 2.5	Pass
16QAM	699.7	6	0	20	3.27	-8.769	-0.0125	-2.5 to 2.5	Pass
					3.85	1.688	0.0024	-2.5 to 2.5	Pass
					4.43	-7.267	-0.0104	-2.5 to 2.5	Pass
				-30	3.85	-0.372	-0.0005	-2.5 to 2.5	Pass
				-20	3.85	-0.129	-0.0002	-2.5 to 2.5	Pass
				-10	3.85	1.974	0.0028	-2.5 to 2.5	Pass
				0	3.85	-11.930	-0.0171	-2.5 to 2.5	Pass
				10	3.85	4.807	0.0069	-2.5 to 2.5	Pass
				30	3.85	-0.815	-0.0012	-2.5 to 2.5	Pass
				40	3.85	-3.748	-0.0054	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	3.662	0.0052	-2.5 to 2.5	Pass
					3.85	-8.669	-0.0123	-2.5 to 2.5	Pass
					4.43	2.518	0.0036	-2.5 to 2.5	Pass
				-30	3.85	-1.774	-0.0025	-2.5 to 2.5	Pass
				-20	3.85	-8.769	-0.0124	-2.5 to 2.5	Pass
				-10	3.85	0.873	0.0012	-2.5 to 2.5	Pass
				0	3.85	-4.191	-0.0059	-2.5 to 2.5	Pass
				10	3.85	2.203	0.0031	-2.5 to 2.5	Pass
				30	3.85	2.503	0.0035	-2.5 to 2.5	Pass
				40	3.85	-1.917	-0.0027	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	-0.086	-0.0001	-2.5 to 2.5	Pass
					3.85	3.119	0.0044	-2.5 to 2.5	Pass
					4.43	-9.370	-0.0131	-2.5 to 2.5	Pass
				-30	3.85	-1.245	-0.0017	-2.5 to 2.5	Pass
				-20	3.85	-0.687	-0.0010	-2.5 to 2.5	Pass
				-10	3.85	-7.739	-0.0108	-2.5 to 2.5	Pass
				0	3.85	-8.140	-0.0114	-2.5 to 2.5	Pass
				10	3.85	-2.561	-0.0036	-2.5 to 2.5	Pass
				30	3.85	-12.388	-0.0173	-2.5 to 2.5	Pass
				40	3.85	-8.168	-0.0114	-2.5 to 2.5	Pass
				50	3.85	-7.195	-0.0101	-2.5 to 2.5	Pass

2.1.2 B12_3MHz



Band: 12 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	700.5	15	0	20	3.27	-12.445	-0.0178	-2.5 to 2.5	Pass
					3.85	-8.383	-0.0120	-2.5 to 2.5	Pass
					4.43	-6.280	-0.0090	-2.5 to 2.5	Pass
				-30	3.85	1.745	0.0025	-2.5 to 2.5	Pass
				-20	3.85	-12.603	-0.0180	-2.5 to 2.5	Pass
				-10	3.85	-2.975	-0.0042	-2.5 to 2.5	Pass
				0	3.85	-7.253	-0.0104	-2.5 to 2.5	Pass
				10	3.85	-2.718	-0.0039	-2.5 to 2.5	Pass
				30	3.85	-6.781	-0.0097	-2.5 to 2.5	Pass
				40	3.85	-3.405	-0.0049	-2.5 to 2.5	Pass
				50	3.85	-1.788	-0.0026	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	-1.588	-0.0022	-2.5 to 2.5	Pass
					3.85	1.330	0.0019	-2.5 to 2.5	Pass
					4.43	1.774	0.0025	-2.5 to 2.5	Pass
				-30	3.85	-1.101	-0.0016	-2.5 to 2.5	Pass
				-20	3.85	-2.332	-0.0033	-2.5 to 2.5	Pass
				-10	3.85	-1.960	-0.0028	-2.5 to 2.5	Pass
				0	3.85	-2.604	-0.0037	-2.5 to 2.5	Pass
				10	3.85	1.831	0.0026	-2.5 to 2.5	Pass
				30	3.85	0.257	0.0004	-2.5 to 2.5	Pass
				40	3.85	-0.758	-0.0011	-2.5 to 2.5	Pass
				50	3.85	-4.835	-0.0068	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-8.311	-0.0116	-2.5 to 2.5	Pass
					3.85	-5.507	-0.0077	-2.5 to 2.5	Pass
					4.43	3.161	0.0044	-2.5 to 2.5	Pass
				-30	3.85	2.003	0.0028	-2.5 to 2.5	Pass
				-20	3.85	-7.510	-0.0105	-2.5 to 2.5	Pass
				-10	3.85	-6.838	-0.0096	-2.5 to 2.5	Pass
				0	3.85	-2.832	-0.0040	-2.5 to 2.5	Pass
				10	3.85	-4.950	-0.0069	-2.5 to 2.5	Pass
				30	3.85	-5.436	-0.0076	-2.5 to 2.5	Pass
				40	3.85	-2.203	-0.0031	-2.5 to 2.5	Pass
				50	3.85	-5.579	-0.0078	-2.5 to 2.5	Pass
16QAM	700.5	15	0	20	3.27	-1.230	-0.0018	-2.5 to 2.5	Pass
					3.85	-0.300	-0.0004	-2.5 to 2.5	Pass
					4.43	2.074	0.0030	-2.5 to 2.5	Pass
				-30	3.85	-5.150	-0.0074	-2.5 to 2.5	Pass
				-20	3.85	-8.941	-0.0128	-2.5 to 2.5	Pass
				-10	3.85	-5.250	-0.0075	-2.5 to 2.5	Pass
				0	3.85	-1.316	-0.0019	-2.5 to 2.5	Pass
				10	3.85	-7.324	-0.0105	-2.5 to 2.5	Pass
				30	3.85	-9.027	-0.0129	-2.5 to 2.5	Pass
				40	3.85	3.133	0.0045	-2.5 to 2.5	Pass
				50	3.85	-0.472	-0.0007	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	-0.644	-0.0009	-2.5 to 2.5	Pass
					3.85	0.815	0.0012	-2.5 to 2.5	Pass
					4.43	-1.645	-0.0023	-2.5 to 2.5	Pass
				-30	3.85	-2.518	-0.0036	-2.5 to 2.5	Pass
				-20	3.85	0.658	0.0009	-2.5 to 2.5	Pass
				-10	3.85	-3.333	-0.0047	-2.5 to 2.5	Pass
				0	3.85	0.029	0.0000	-2.5 to 2.5	Pass
				10	3.85	-7.081	-0.0100	-2.5 to 2.5	Pass
				30	3.85	-3.047	-0.0043	-2.5 to 2.5	Pass
				40	3.85	-7.296	-0.0103	-2.5 to 2.5	Pass
				50	3.85	2.875	0.0041	-2.5 to 2.5	Pass

	714.5	15	0	20	3.27	-2.460	-0.0034	-2.5 to 2.5	Pass
					3.85	-7.353	-0.0103	-2.5 to 2.5	Pass
					4.43	-3.963	-0.0055	-2.5 to 2.5	Pass
				-30	3.85	-4.964	-0.0069	-2.5 to 2.5	Pass
				-20	3.85	1.516	0.0021	-2.5 to 2.5	Pass
				-10	3.85	1.259	0.0018	-2.5 to 2.5	Pass
				0	3.85	-5.822	-0.0081	-2.5 to 2.5	Pass
				10	3.85	-7.381	-0.0103	-2.5 to 2.5	Pass
				30	3.85	-10.614	-0.0149	-2.5 to 2.5	Pass
				40	3.85	-4.277	-0.0060	-2.5 to 2.5	Pass
				50	3.85	-5.136	-0.0072	-2.5 to 2.5	Pass

2.1.3 B12_5MHz

Band: 12 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	701.5	25	0	20	3.27	-1.888	-0.0027	-2.5 to 2.5	Pass
					3.85	1.230	0.0018	-2.5 to 2.5	Pass
					4.43	-3.591	-0.0051	-2.5 to 2.5	Pass
				-30	3.85	-7.052	-0.0101	-2.5 to 2.5	Pass
				-20	3.85	-1.173	-0.0017	-2.5 to 2.5	Pass
				-10	3.85	-1.945	-0.0028	-2.5 to 2.5	Pass
				0	3.85	-3.033	-0.0043	-2.5 to 2.5	Pass
				10	3.85	-0.730	-0.0010	-2.5 to 2.5	Pass
				30	3.85	-2.489	-0.0035	-2.5 to 2.5	Pass
				40	3.85	-3.891	-0.0055	-2.5 to 2.5	Pass
				50	3.85	1.516	0.0022	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-5.479	-0.0077	-2.5 to 2.5	Pass
					3.85	-0.386	-0.0005	-2.5 to 2.5	Pass
					4.43	-2.089	-0.0030	-2.5 to 2.5	Pass
				-30	3.85	-2.432	-0.0034	-2.5 to 2.5	Pass
				-20	3.85	-0.529	-0.0007	-2.5 to 2.5	Pass
				-10	3.85	-4.020	-0.0057	-2.5 to 2.5	Pass
				0	3.85	-2.246	-0.0032	-2.5 to 2.5	Pass
				10	3.85	-5.350	-0.0076	-2.5 to 2.5	Pass
				30	3.85	-0.043	-0.0001	-2.5 to 2.5	Pass
				40	3.85	-0.830	-0.0012	-2.5 to 2.5	Pass
				50	3.85	-4.148	-0.0059	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-4.535	-0.0064	-2.5 to 2.5	Pass
					3.85	-3.934	-0.0055	-2.5 to 2.5	Pass
					4.43	-3.591	-0.0050	-2.5 to 2.5	Pass
				-30	3.85	-3.176	-0.0045	-2.5 to 2.5	Pass
				-20	3.85	-1.216	-0.0017	-2.5 to 2.5	Pass
				-10	3.85	2.017	0.0028	-2.5 to 2.5	Pass
				0	3.85	-4.435	-0.0062	-2.5 to 2.5	Pass
				10	3.85	-3.104	-0.0044	-2.5 to 2.5	Pass
				30	3.85	-4.520	-0.0063	-2.5 to 2.5	Pass
				40	3.85	-4.549	-0.0064	-2.5 to 2.5	Pass
				50	3.85	-1.802	-0.0025	-2.5 to 2.5	Pass
16QAM	701.5	25	0	20	3.27	-4.034	-0.0058	-2.5 to 2.5	Pass
					3.85	-7.195	-0.0103	-2.5 to 2.5	Pass
					4.43	-0.715	-0.0010	-2.5 to 2.5	Pass
				-30	3.85	-5.007	-0.0071	-2.5 to 2.5	Pass
				-20	3.85	-4.621	-0.0066	-2.5 to 2.5	Pass
				-10	3.85	-2.589	-0.0037	-2.5 to 2.5	Pass

				0	3.85	1.945	0.0028	-2.5 to 2.5	Pass
				10	3.85	1.116	0.0016	-2.5 to 2.5	Pass
				30	3.85	2.789	0.0040	-2.5 to 2.5	Pass
				40	3.85	-0.672	-0.0010	-2.5 to 2.5	Pass
				50	3.85	-5.507	-0.0079	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-2.217	-0.0031	-2.5 to 2.5	Pass
					3.85	-0.200	-0.0003	-2.5 to 2.5	Pass
					4.43	-2.089	-0.0030	-2.5 to 2.5	Pass
				-30	3.85	-7.782	-0.0110	-2.5 to 2.5	Pass
				-20	3.85	-4.764	-0.0067	-2.5 to 2.5	Pass
				-10	3.85	-1.531	-0.0022	-2.5 to 2.5	Pass
				0	3.85	-0.901	-0.0013	-2.5 to 2.5	Pass
				10	3.85	-7.267	-0.0103	-2.5 to 2.5	Pass
				30	3.85	-3.419	-0.0048	-2.5 to 2.5	Pass
				40	3.85	-2.389	-0.0034	-2.5 to 2.5	Pass
				50	3.85	-2.775	-0.0039	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-3.519	-0.0049	-2.5 to 2.5	Pass
					3.85	-6.223	-0.0087	-2.5 to 2.5	Pass
					4.43	-5.736	-0.0080	-2.5 to 2.5	Pass
				-30	3.85	-6.938	-0.0097	-2.5 to 2.5	Pass
				-20	3.85	-6.166	-0.0086	-2.5 to 2.5	Pass
				-10	3.85	-4.191	-0.0059	-2.5 to 2.5	Pass
				0	3.85	-9.255	-0.0130	-2.5 to 2.5	Pass
				10	3.85	-3.018	-0.0042	-2.5 to 2.5	Pass
				30	3.85	-7.110	-0.0100	-2.5 to 2.5	Pass
				40	3.85	-4.864	-0.0068	-2.5 to 2.5	Pass
				50	3.85	-3.176	-0.0045	-2.5 to 2.5	Pass

2.1.4 B12_10MHz

Band: 12 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	704	50	0	20	3.27	-3.462	-0.0049	-2.5 to 2.5	Pass
					3.85	-3.848	-0.0055	-2.5 to 2.5	Pass
					4.43	-3.419	-0.0049	-2.5 to 2.5	Pass
				-30	3.85	-3.505	-0.0050	-2.5 to 2.5	Pass
				-20	3.85	-3.362	-0.0048	-2.5 to 2.5	Pass
				-10	3.85	-2.460	-0.0035	-2.5 to 2.5	Pass
				0	3.85	-3.233	-0.0046	-2.5 to 2.5	Pass
				10	3.85	-5.693	-0.0081	-2.5 to 2.5	Pass
				30	3.85	-2.646	-0.0038	-2.5 to 2.5	Pass
				40	3.85	-2.675	-0.0038	-2.5 to 2.5	Pass
				50	3.85	-1.416	-0.0020	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-2.847	-0.0040	-2.5 to 2.5	Pass
					3.85	-0.930	-0.0013	-2.5 to 2.5	Pass
					4.43	0.758	0.0011	-2.5 to 2.5	Pass
				-30	3.85	0.930	0.0013	-2.5 to 2.5	Pass
				-20	3.85	-1.974	-0.0028	-2.5 to 2.5	Pass
				-10	3.85	-4.721	-0.0067	-2.5 to 2.5	Pass
				0	3.85	-3.734	-0.0053	-2.5 to 2.5	Pass
				10	3.85	-3.119	-0.0044	-2.5 to 2.5	Pass
				30	3.85	-4.334	-0.0061	-2.5 to 2.5	Pass
				40	3.85	-3.648	-0.0052	-2.5 to 2.5	Pass
				50	3.85	-3.548	-0.0050	-2.5 to 2.5	Pass
	711	50	0	20	3.27	1.159	0.0016	-2.5 to 2.5	Pass

					3.85	2.303	0.0032	-2.5 to 2.5	Pass
					4.43	0.100	0.0001	-2.5 to 2.5	Pass
				-30	3.85	-0.572	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	2.160	0.0030	-2.5 to 2.5	Pass
				-10	3.85	-3.505	-0.0049	-2.5 to 2.5	Pass
				0	3.85	1.345	0.0019	-2.5 to 2.5	Pass
				10	3.85	0.029	0.0000	-2.5 to 2.5	Pass
				30	3.85	-2.847	-0.0040	-2.5 to 2.5	Pass
				40	3.85	-0.944	-0.0013	-2.5 to 2.5	Pass
				50	3.85	-5.350	-0.0075	-2.5 to 2.5	Pass
16QAM	704	50	0	20	3.27	-2.618	-0.0037	-2.5 to 2.5	Pass
					3.85	-3.619	-0.0051	-2.5 to 2.5	Pass
					4.43	-3.834	-0.0054	-2.5 to 2.5	Pass
				-30	3.85	-2.704	-0.0038	-2.5 to 2.5	Pass
				-20	3.85	-2.761	-0.0039	-2.5 to 2.5	Pass
				-10	3.85	-3.905	-0.0055	-2.5 to 2.5	Pass
				0	3.85	-3.905	-0.0055	-2.5 to 2.5	Pass
				10	3.85	-0.415	-0.0006	-2.5 to 2.5	Pass
				30	3.85	-3.462	-0.0049	-2.5 to 2.5	Pass
				40	3.85	-2.847	-0.0040	-2.5 to 2.5	Pass
				50	3.85	-4.320	-0.0061	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-4.034	-0.0057	-2.5 to 2.5	Pass
					3.85	-3.090	-0.0044	-2.5 to 2.5	Pass
					4.43	-1.459	-0.0021	-2.5 to 2.5	Pass
				-30	3.85	-4.091	-0.0058	-2.5 to 2.5	Pass
				-20	3.85	-4.778	-0.0068	-2.5 to 2.5	Pass
				-10	3.85	-3.834	-0.0054	-2.5 to 2.5	Pass
				0	3.85	-0.916	-0.0013	-2.5 to 2.5	Pass
				10	3.85	-3.104	-0.0044	-2.5 to 2.5	Pass
				30	3.85	-0.930	-0.0013	-2.5 to 2.5	Pass
				40	3.85	-3.304	-0.0047	-2.5 to 2.5	Pass
				50	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-3.605	-0.0051	-2.5 to 2.5	Pass
					3.85	-1.659	-0.0023	-2.5 to 2.5	Pass
					4.43	-0.014	0.0000	-2.5 to 2.5	Pass
				-30	3.85	-5.436	-0.0076	-2.5 to 2.5	Pass
				-20	3.85	-3.347	-0.0047	-2.5 to 2.5	Pass
				-10	3.85	-2.403	-0.0034	-2.5 to 2.5	Pass
				0	3.85	-2.847	-0.0040	-2.5 to 2.5	Pass
				10	3.85	-3.834	-0.0054	-2.5 to 2.5	Pass
				30	3.85	-2.203	-0.0031	-2.5 to 2.5	Pass
				40	3.85	-3.347	-0.0047	-2.5 to 2.5	Pass
				50	3.85	-1.502	-0.0021	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	6	0	Refer To Test Graph		Pass
16QAM	707.5	6	0	Refer To Test Graph		Pass

3.1.2 B12_3MHz

Band: 12 / Bandwidth: 3MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	15	0	Refer To Test Graph		Pass
16QAM	707.5	15	0	Refer To Test Graph		Pass

3.1.3 B12_5MHz

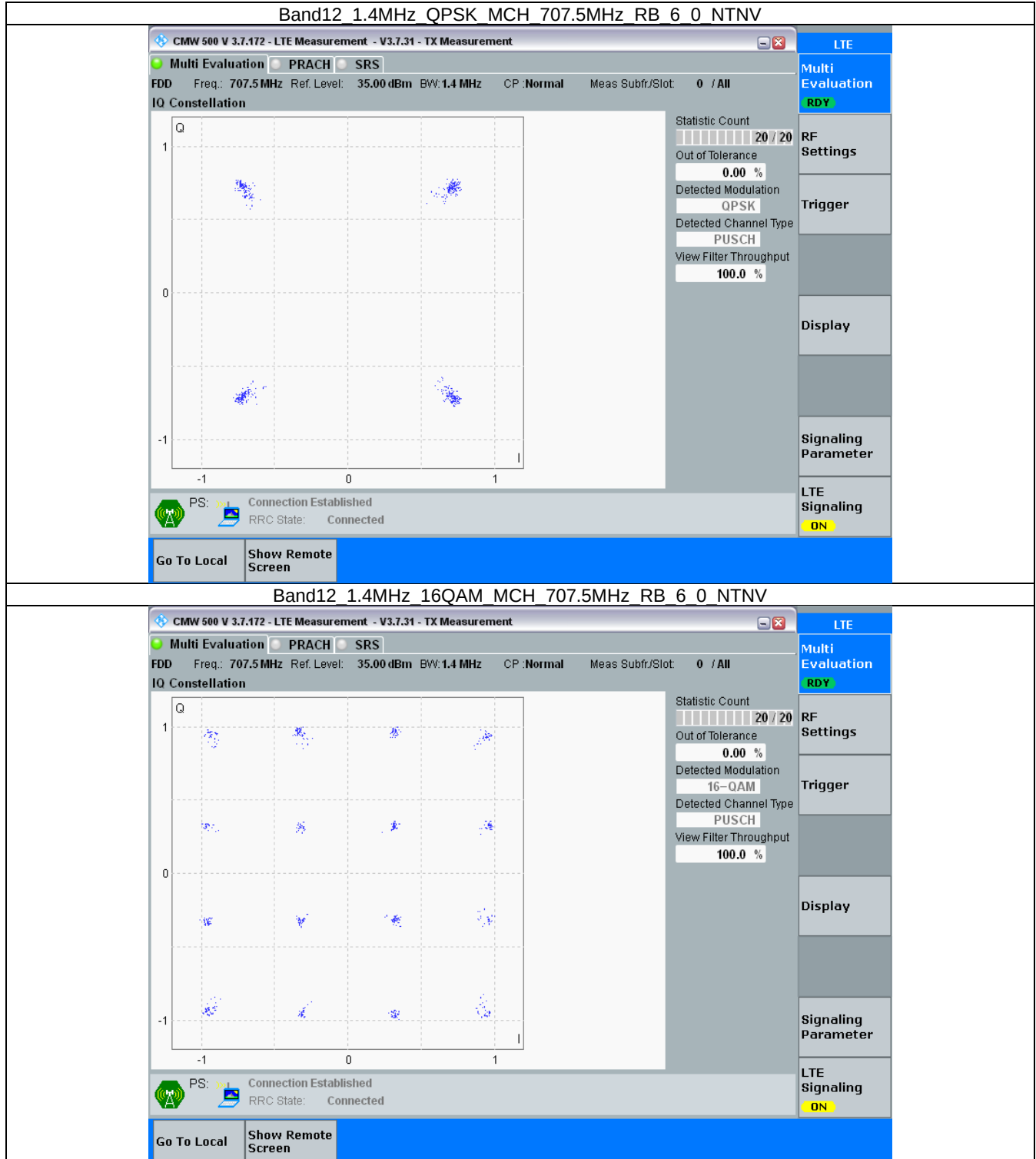
Band: 12 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	25	0	Refer To Test Graph		Pass
16QAM	707.5	25	0	Refer To Test Graph		Pass

3.1.4 B12_10MHz

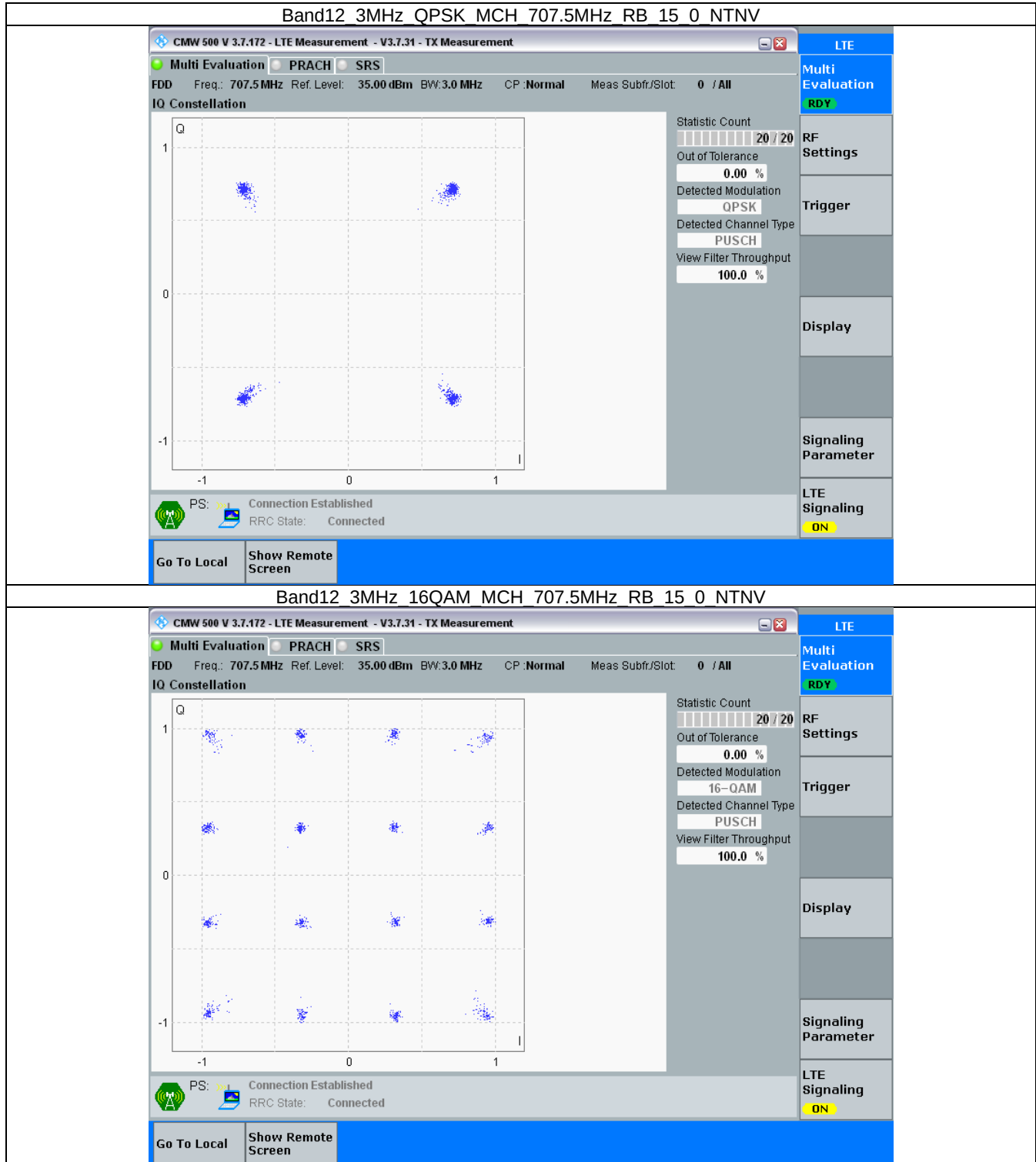
Band: 12 / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	Refer To Test Graph		Pass
16QAM	707.5	50	0	Refer To Test Graph		Pass

3.2 Test Graph

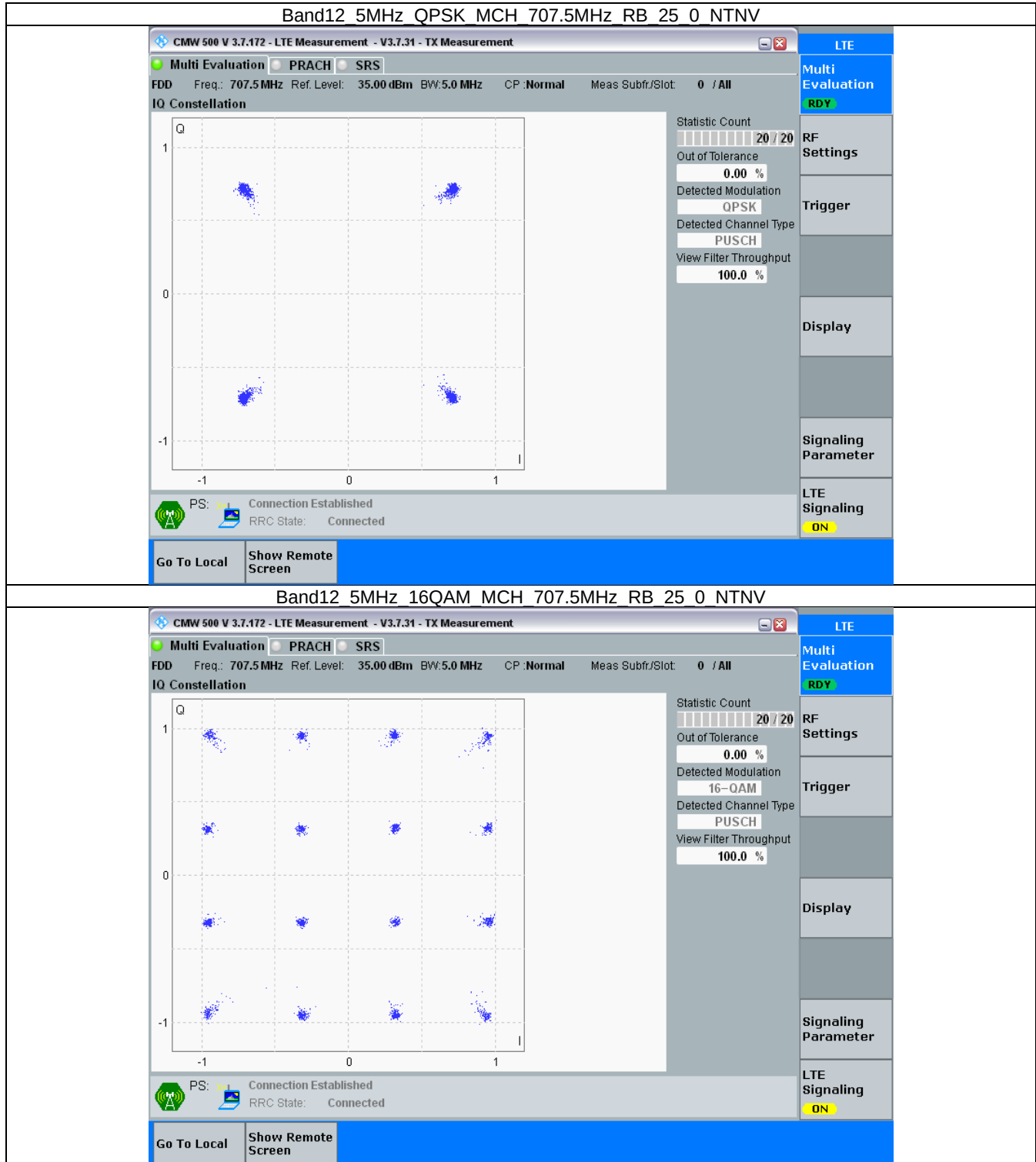
3.2.1 B12_1.4MHz



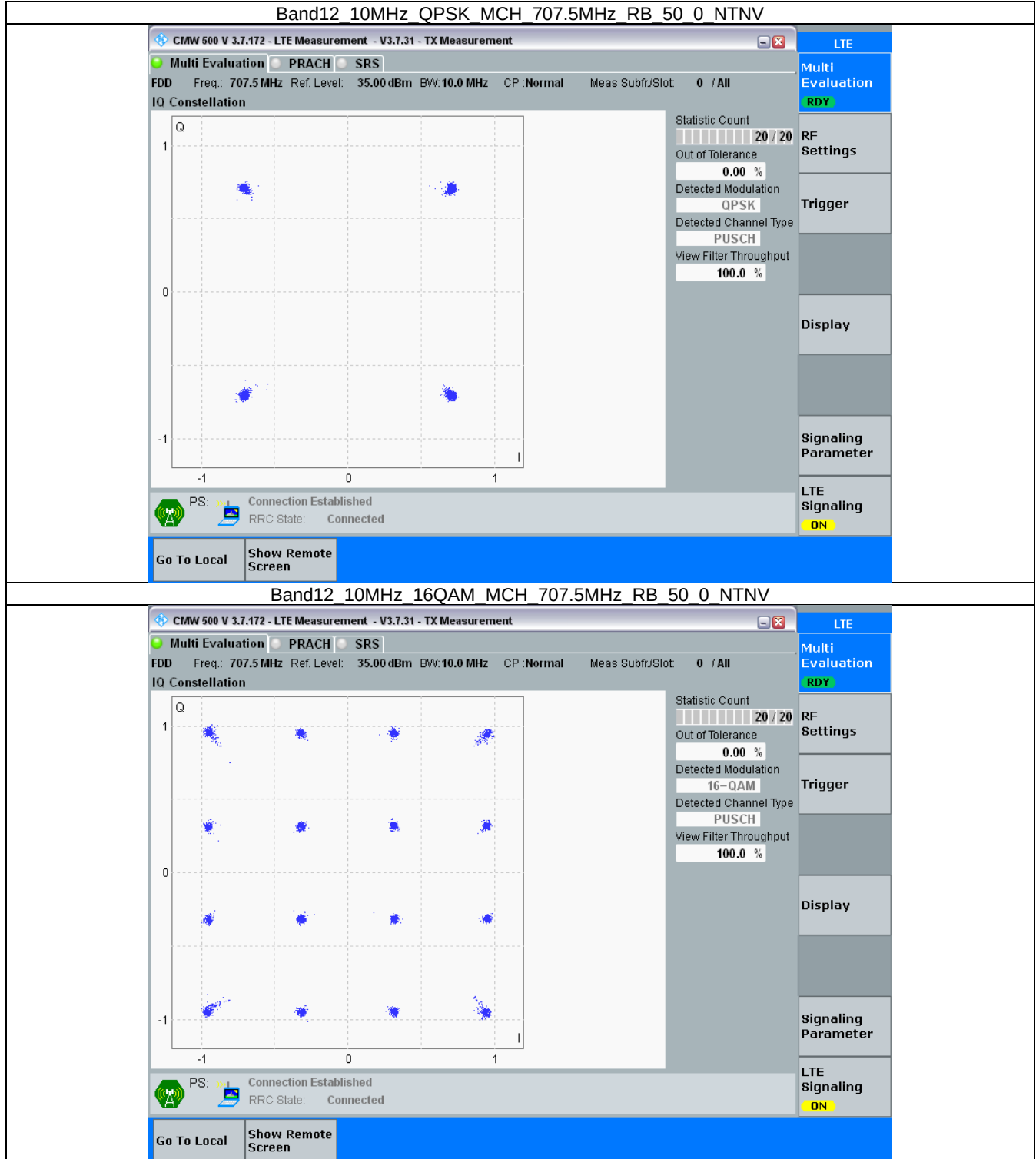
3.2.2 B12_3MHz



3.2.3 B12_5MHz



3.2.4 B12_10MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band12_OBW

Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.109	/	Pass
		707.5	6	0	1.132	/	Pass
		715.3	6	0	1.217	/	Pass
	16QAM	699.7	6	0	1.104	/	Pass
		707.5	6	0	1.123	/	Pass
		715.3	6	0	1.128	/	Pass
3	QPSK	700.5	15	0	2.729	/	Pass
		707.5	15	0	2.745	/	Pass
		714.5	15	0	2.738	/	Pass
	16QAM	700.5	15	0	2.722	/	Pass
		707.5	15	0	2.742	/	Pass
		714.5	15	0	2.735	/	Pass
5	QPSK	701.5	25	0	4.578	/	Pass
		707.5	25	0	4.555	/	Pass
		713.5	25	0	4.548	/	Pass
	16QAM	701.5	25	0	4.539	/	Pass
		707.5	25	0	4.578	/	Pass
		713.5	25	0	4.580	/	Pass
10	QPSK	704	50	0	9.079	/	Pass
		707.5	50	0	8.989	/	Pass
		711	50	0	9.075	/	Pass
	16QAM	704	50	0	9.049	/	Pass
		707.5	50	0	9.000	/	Pass
		711	50	0	9.110	/	Pass

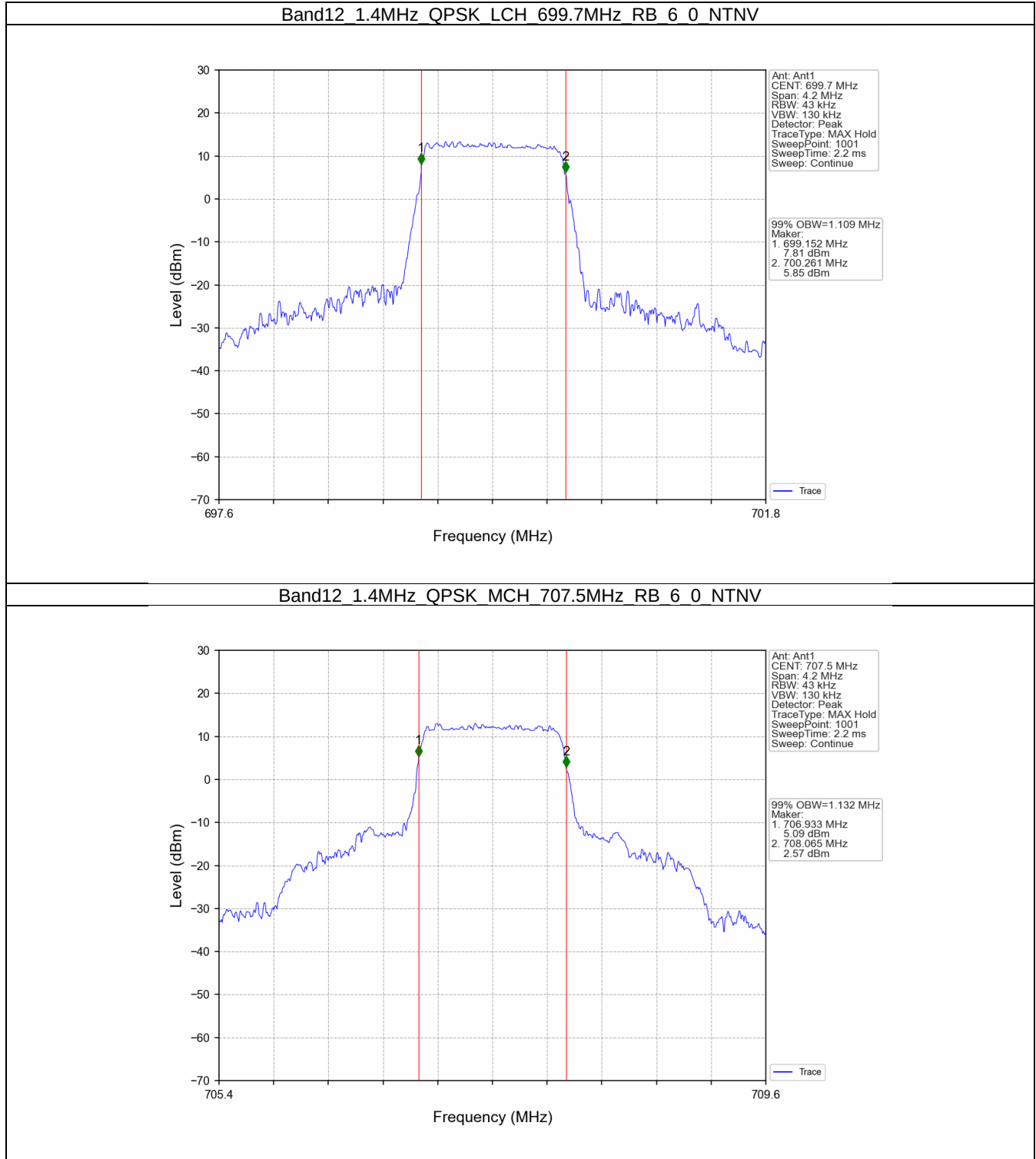
4.1.2 Band12_XDB

Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.318	/	Pass
		707.5	6	0	2.012	/	Pass
		715.3	6	0	2.374	/	Pass
	16QAM	699.7	6	0	1.289	/	Pass
		707.5	6	0	1.333	/	Pass
		715.3	6	0	1.354	/	Pass
3	QPSK	700.5	15	0	3.034	/	Pass
		707.5	15	0	3.063	/	Pass
		714.5	15	0	3.042	/	Pass
	16QAM	700.5	15	0	3.043	/	Pass
		707.5	15	0	3.035	/	Pass
		714.5	15	0	3.078	/	Pass
5	QPSK	701.5	25	0	4.991	/	Pass

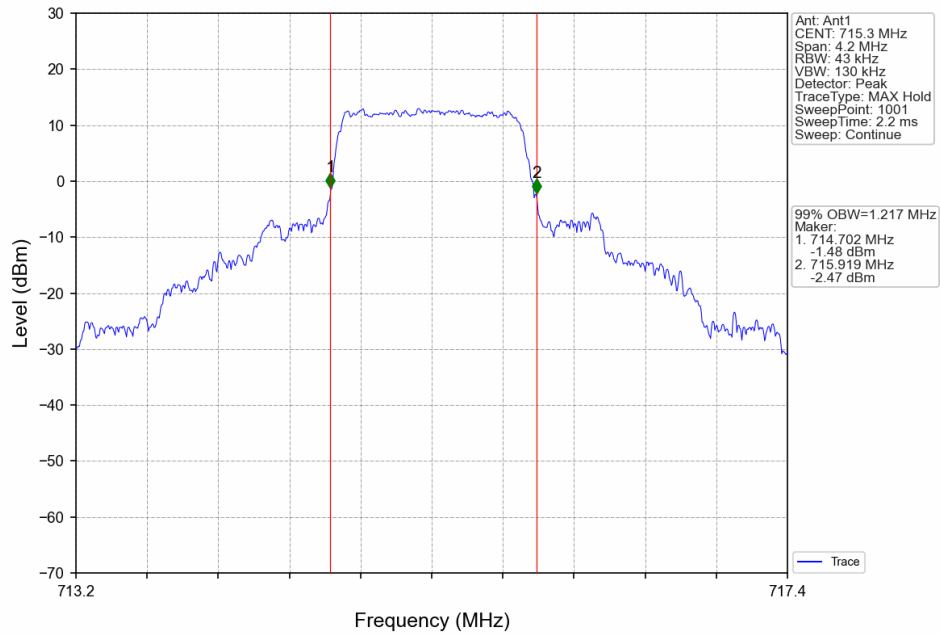
	16QAM	707.5	25	0	5.032	/	Pass
		713.5	25	0	5.012	/	Pass
		701.5	25	0	4.997	/	Pass
		707.5	25	0	5.080	/	Pass
		713.5	25	0	4.998	/	Pass
10	QPSK	704	50	0	9.906	/	Pass
		707.5	50	0	9.839	/	Pass
		711	50	0	10.062	/	Pass
	16QAM	704	50	0	9.922	/	Pass
		707.5	50	0	9.775	/	Pass
		711	50	0	10.803	/	Pass

4.2 Test Graph

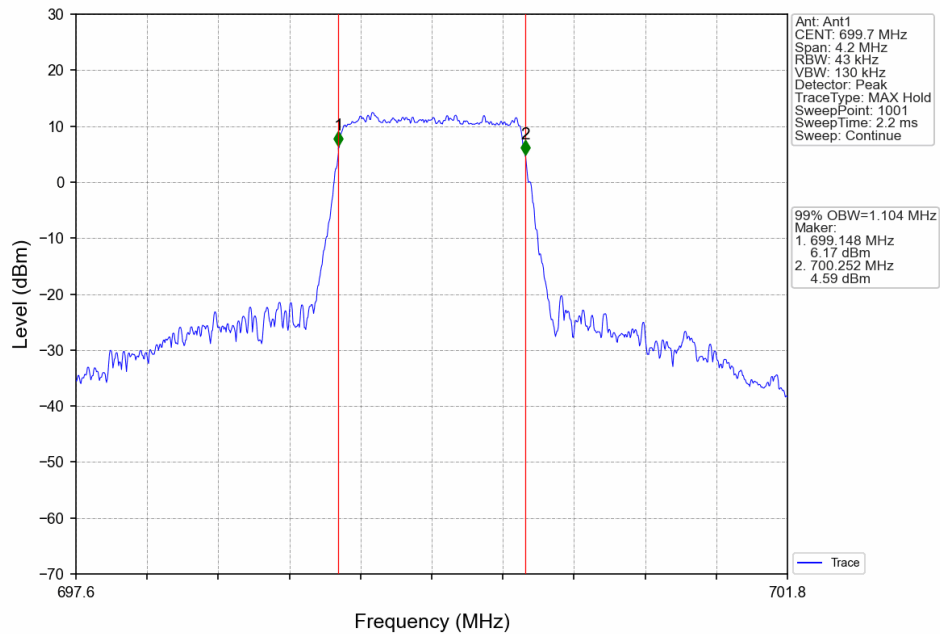
4.2.1 Band12_OBW



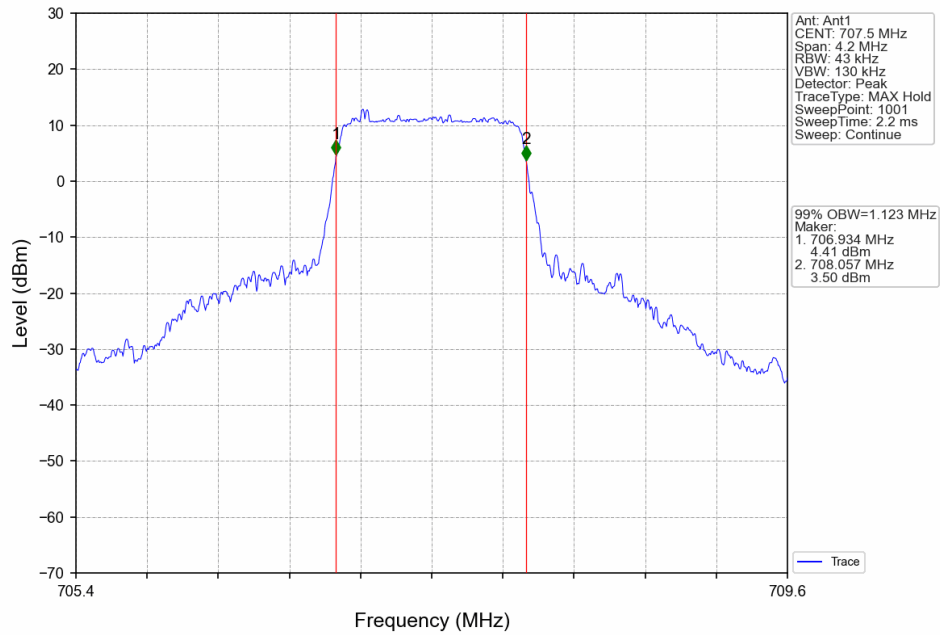
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



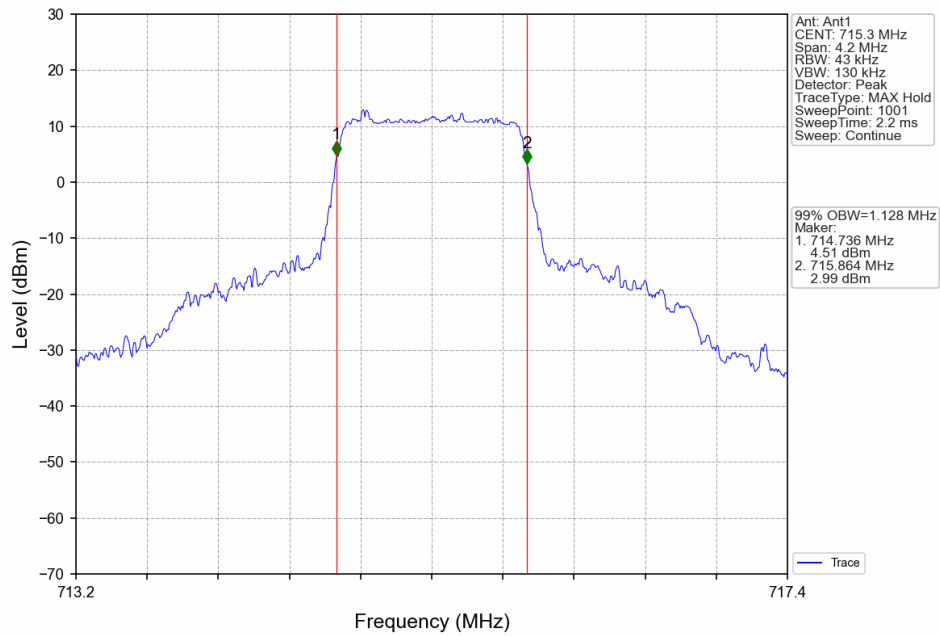
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



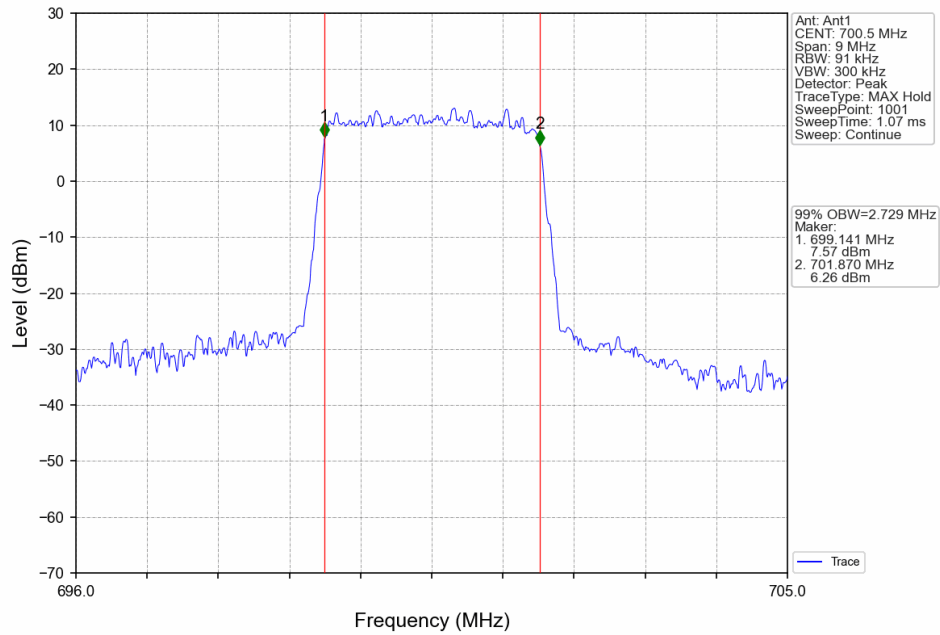
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



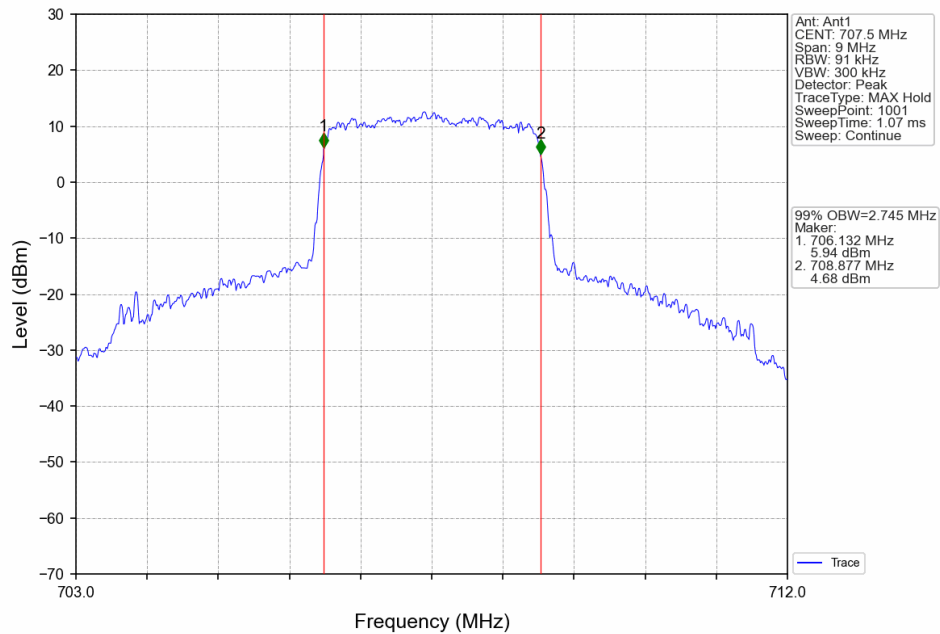
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



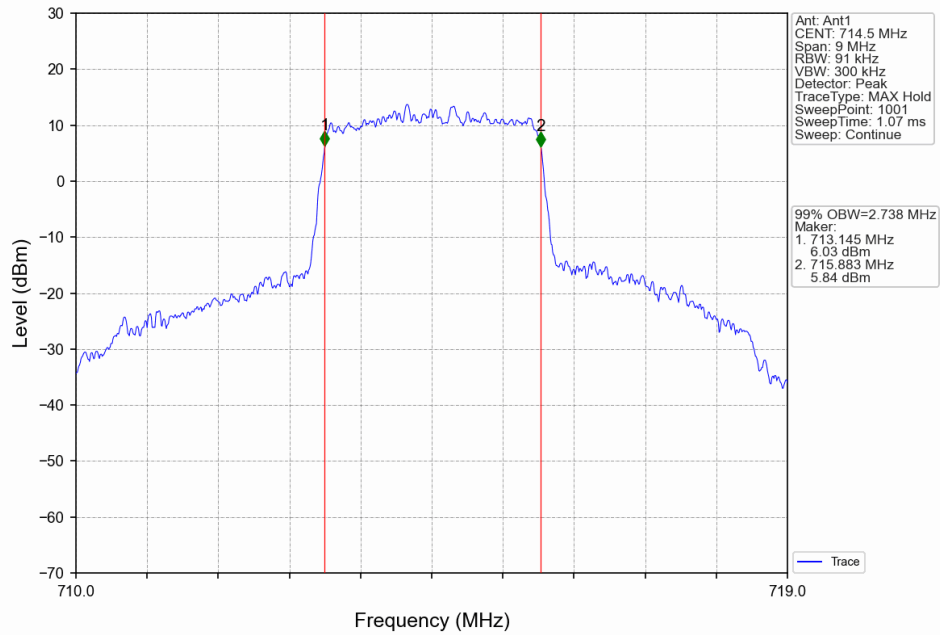
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



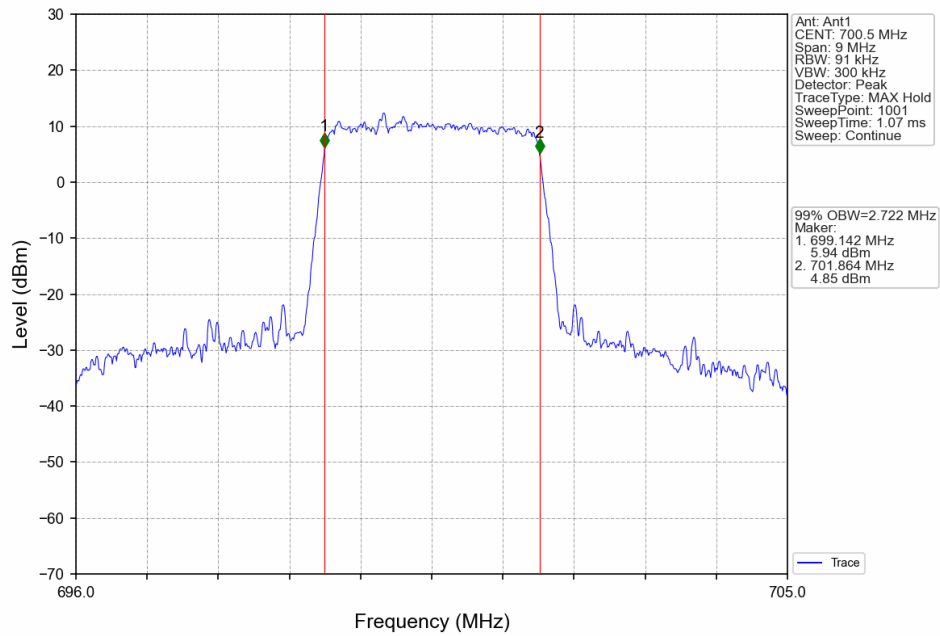
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



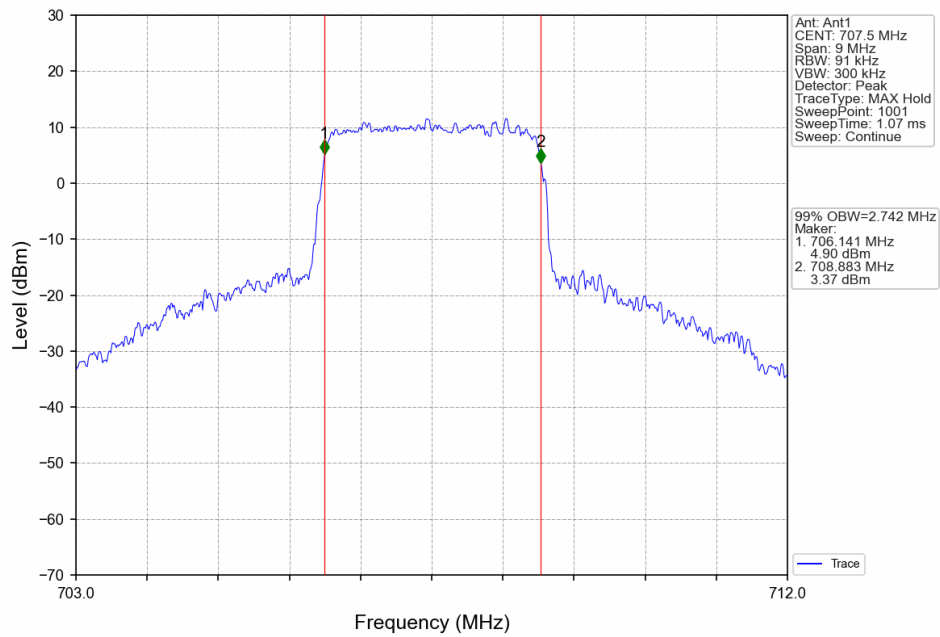
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



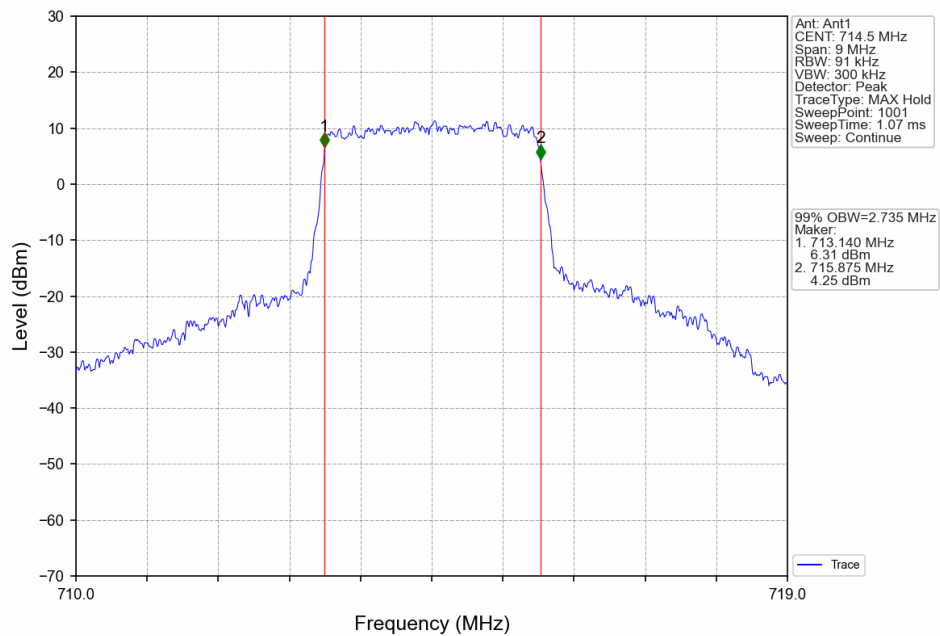
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



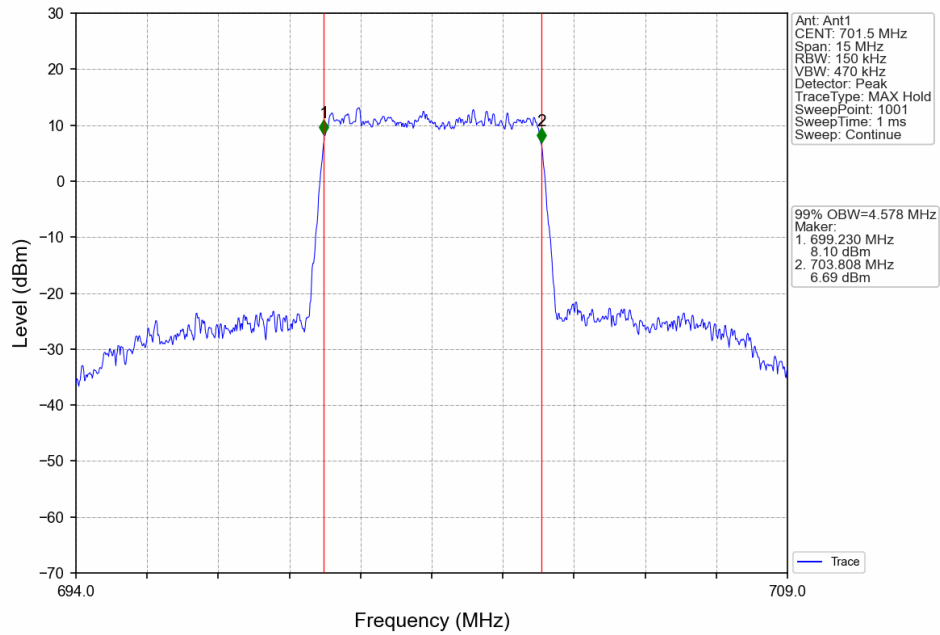
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



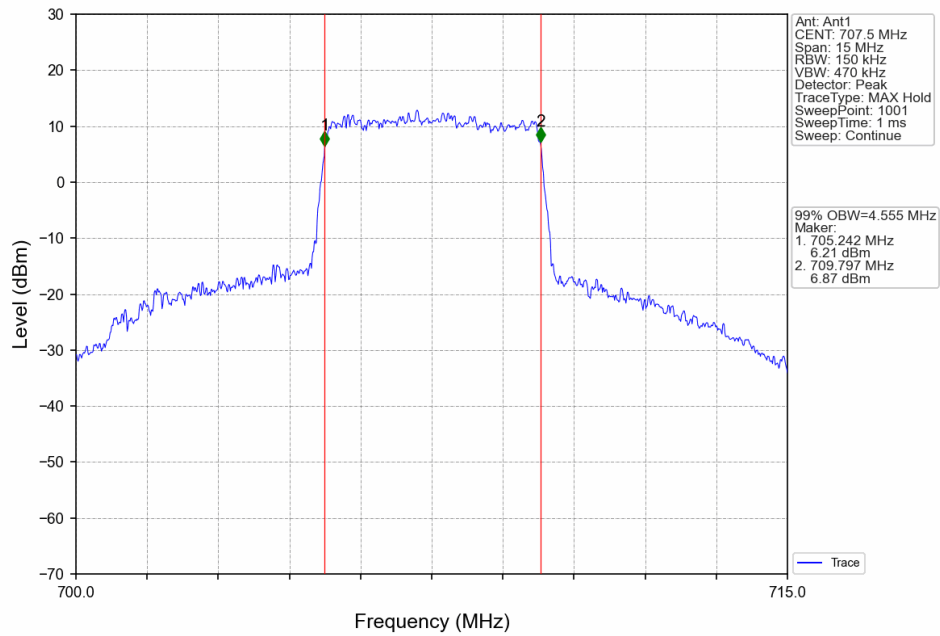
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



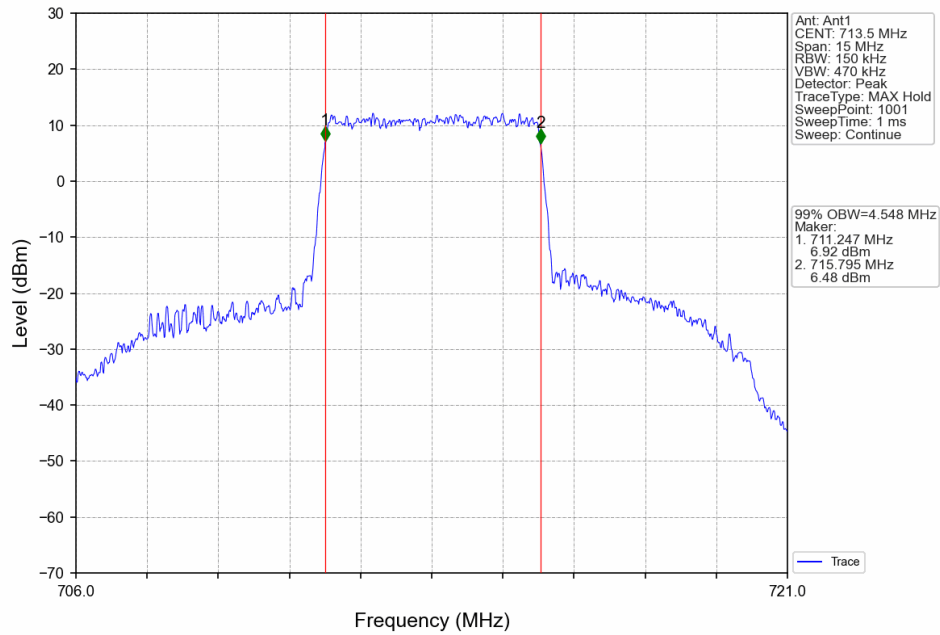
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



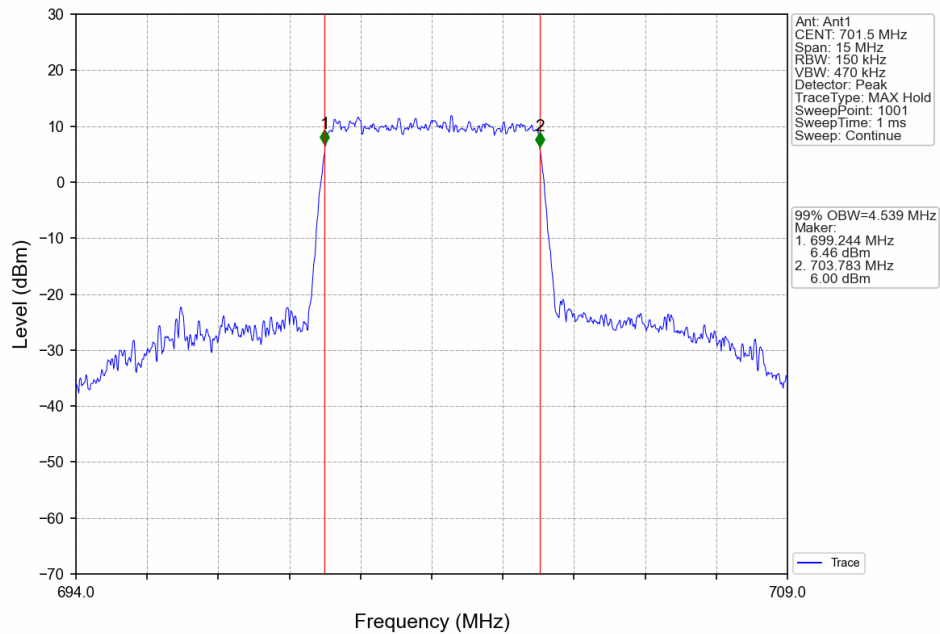
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



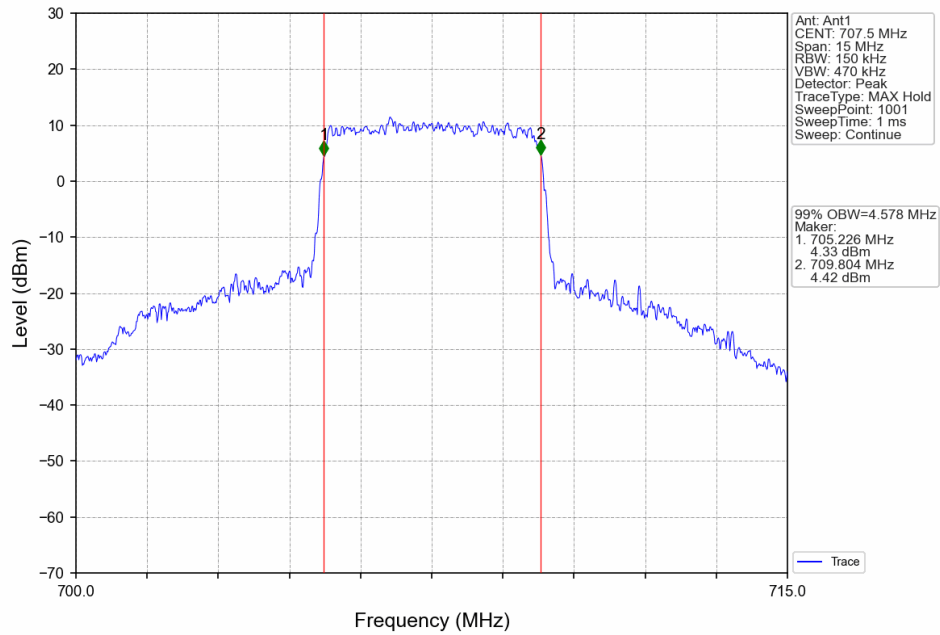
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



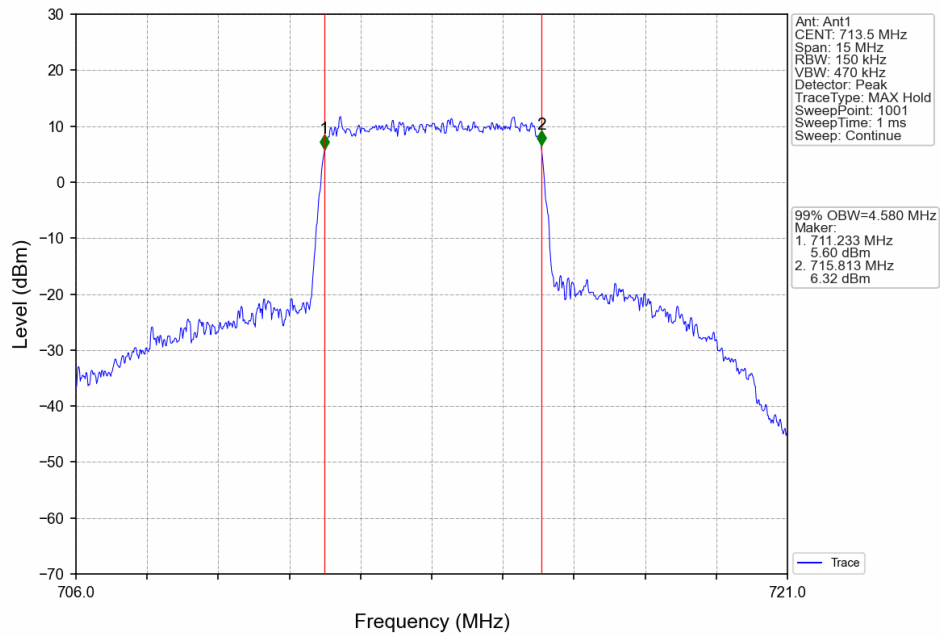
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



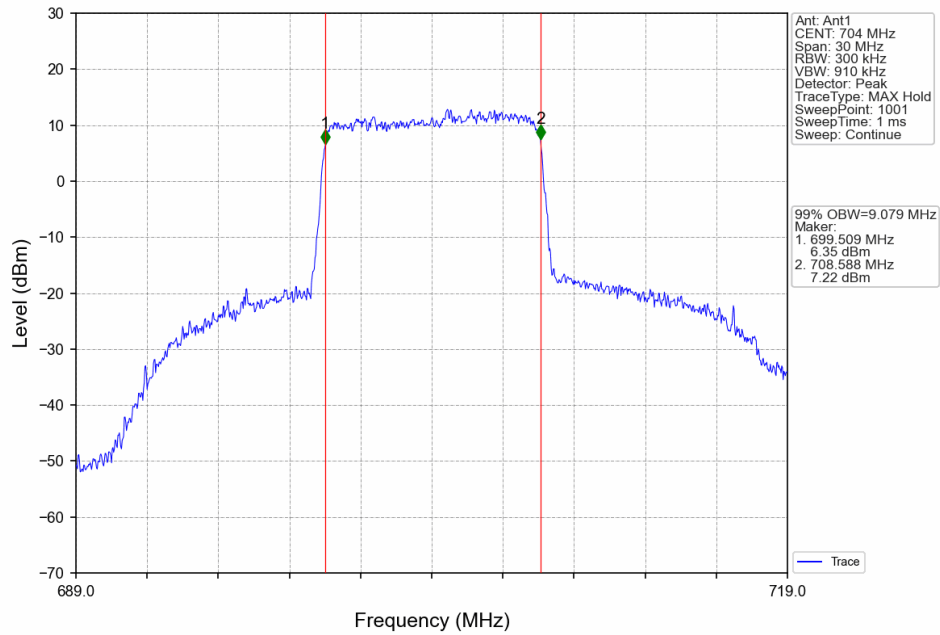
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



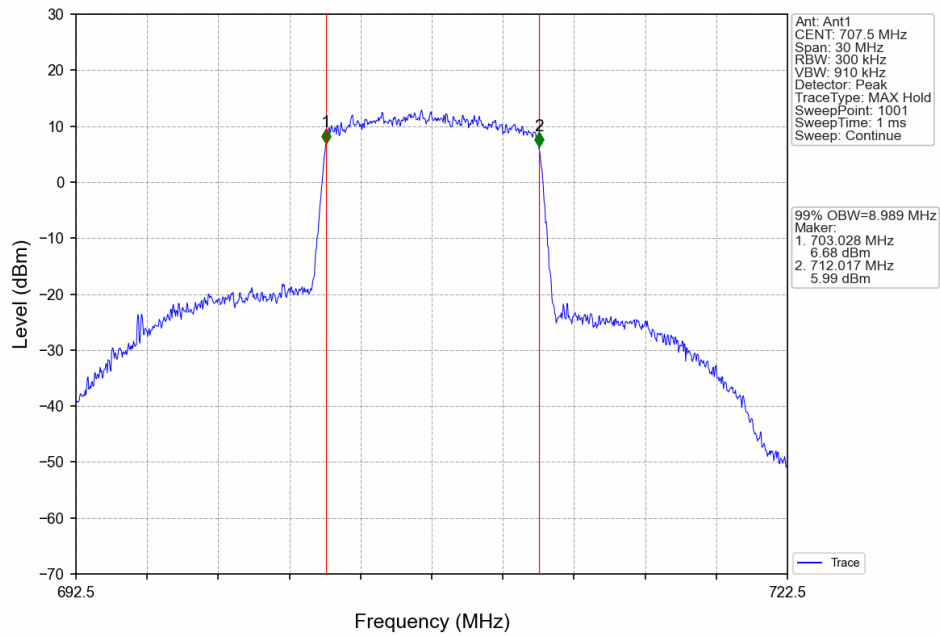
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



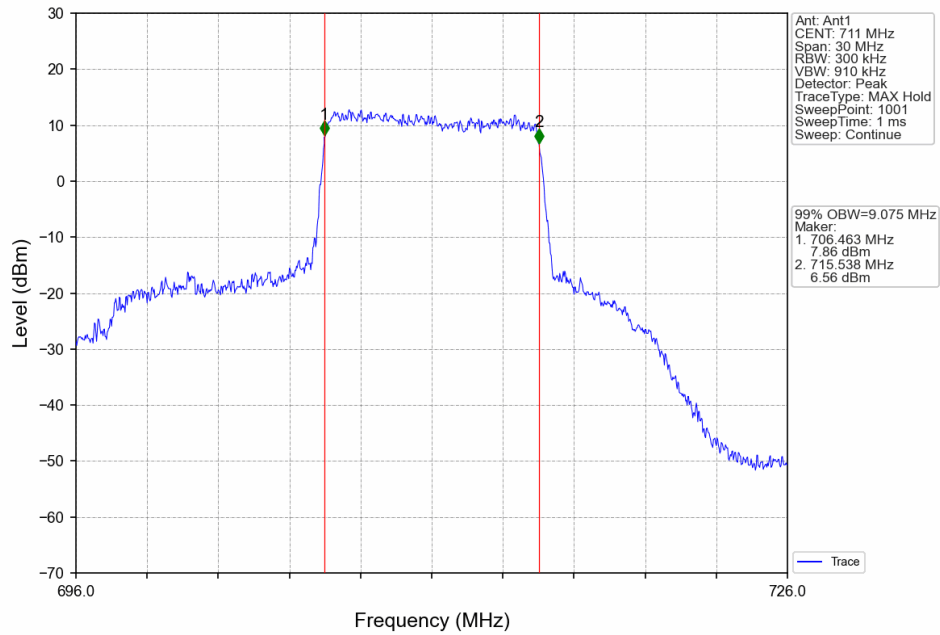
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



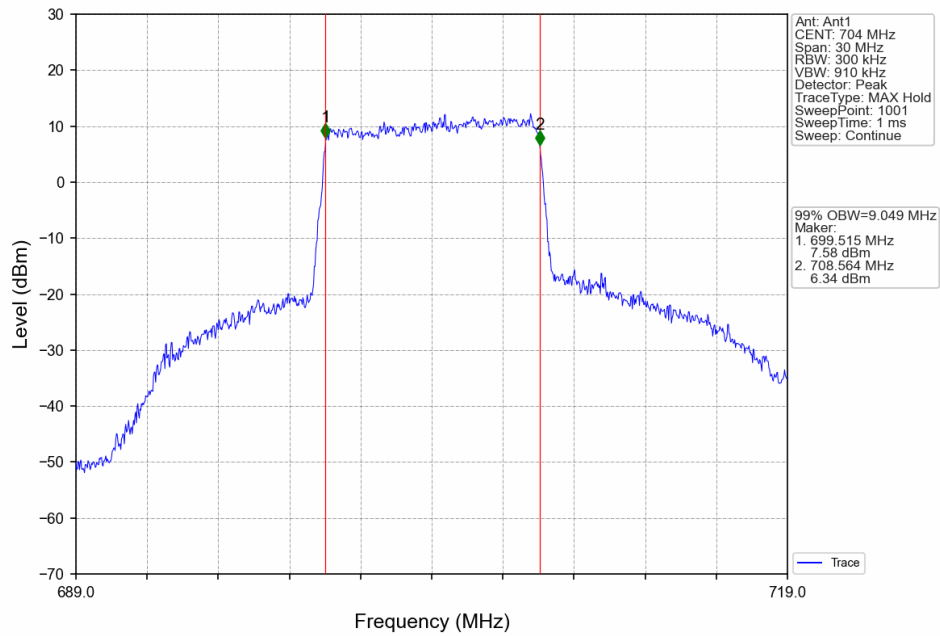
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



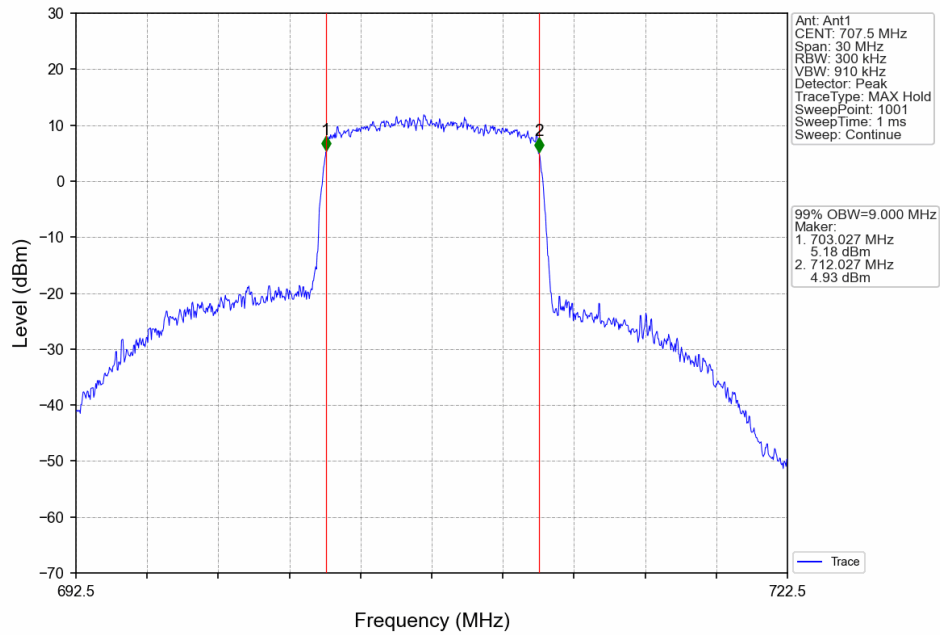
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



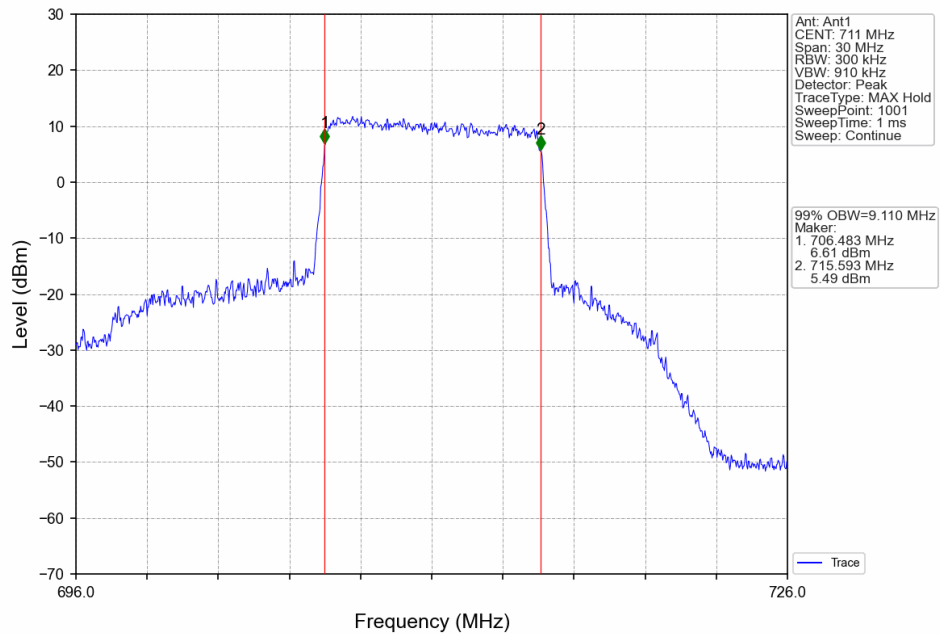
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



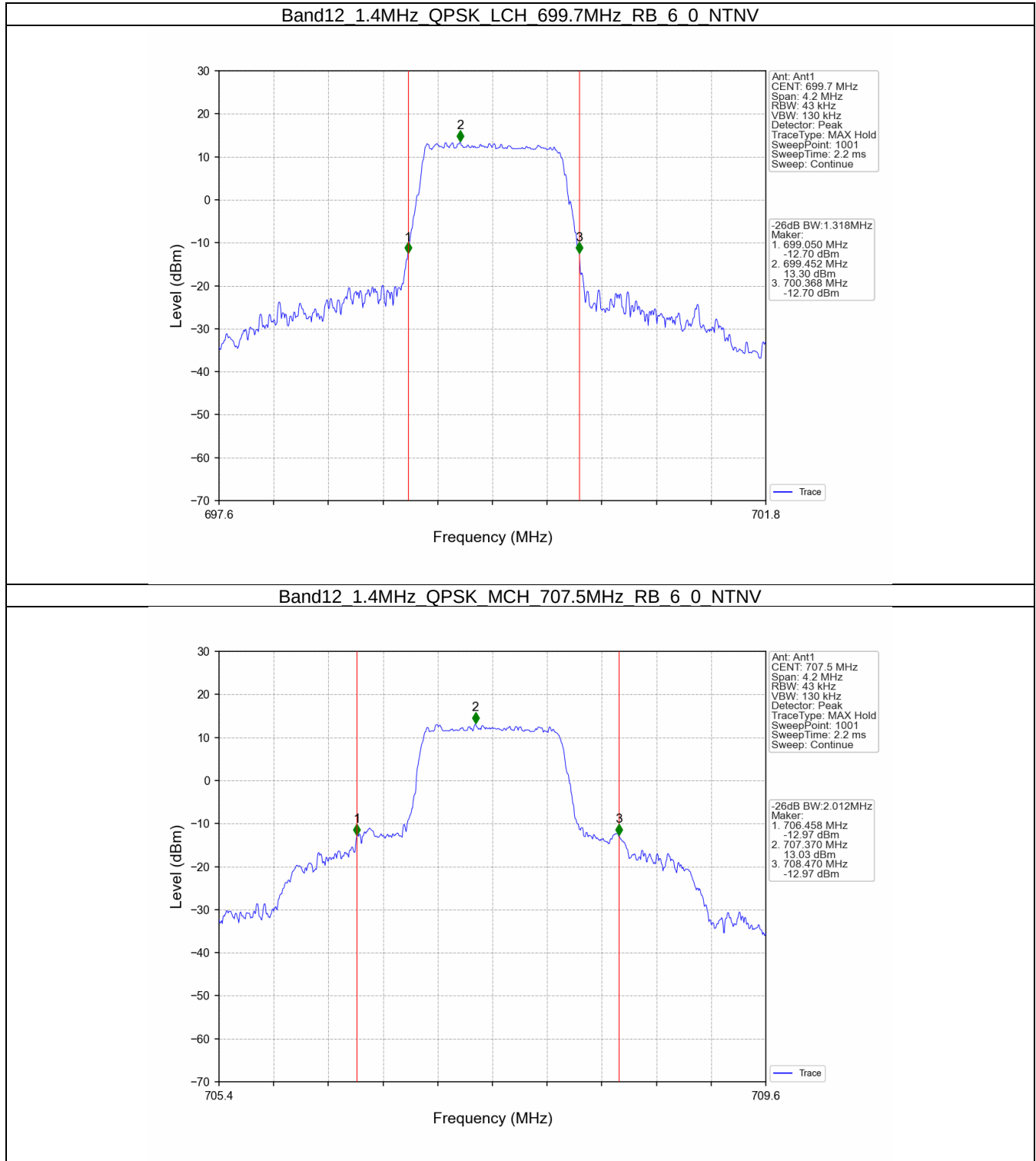
Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



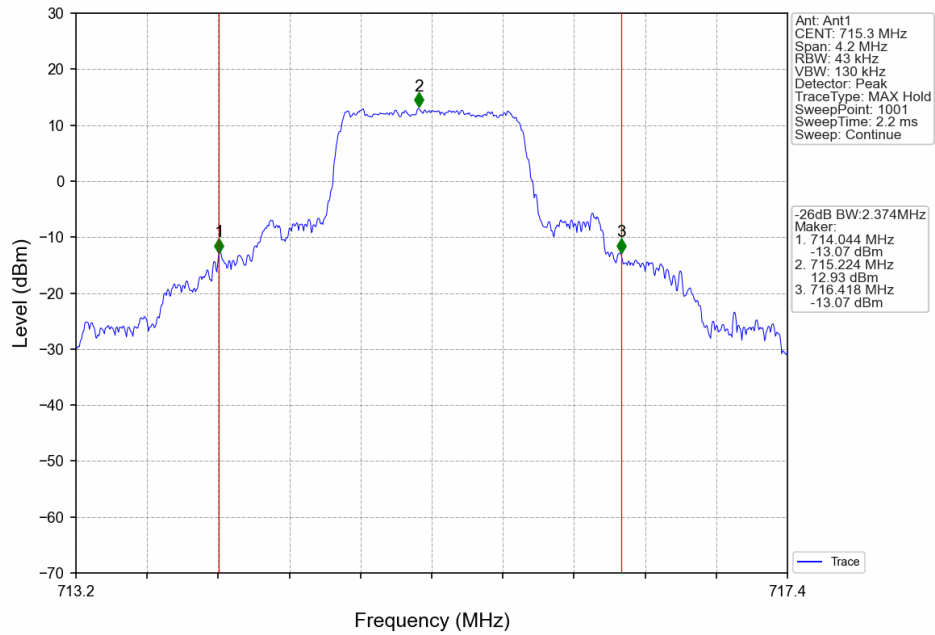
Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



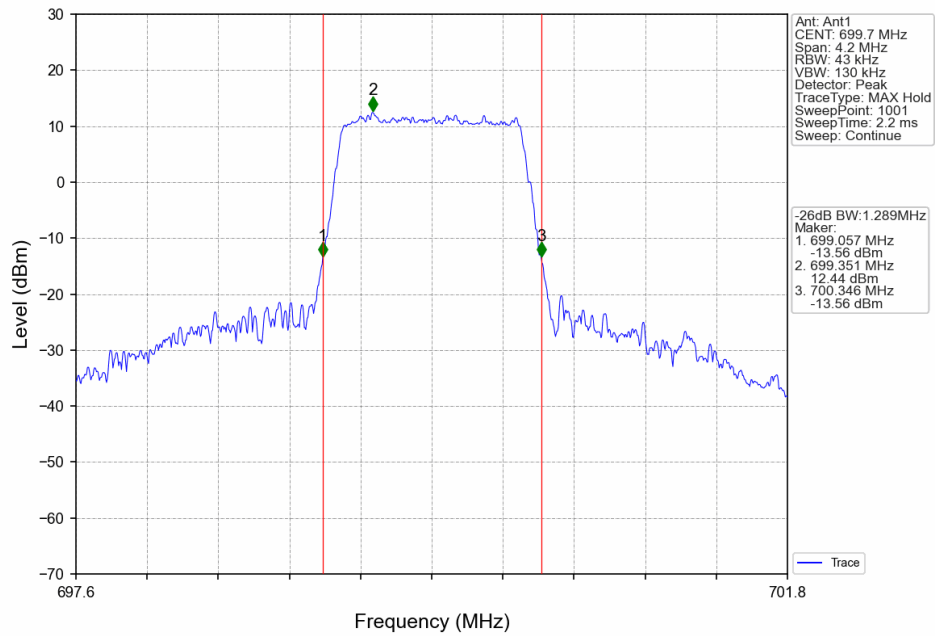
4.2.2 Band12_XDB



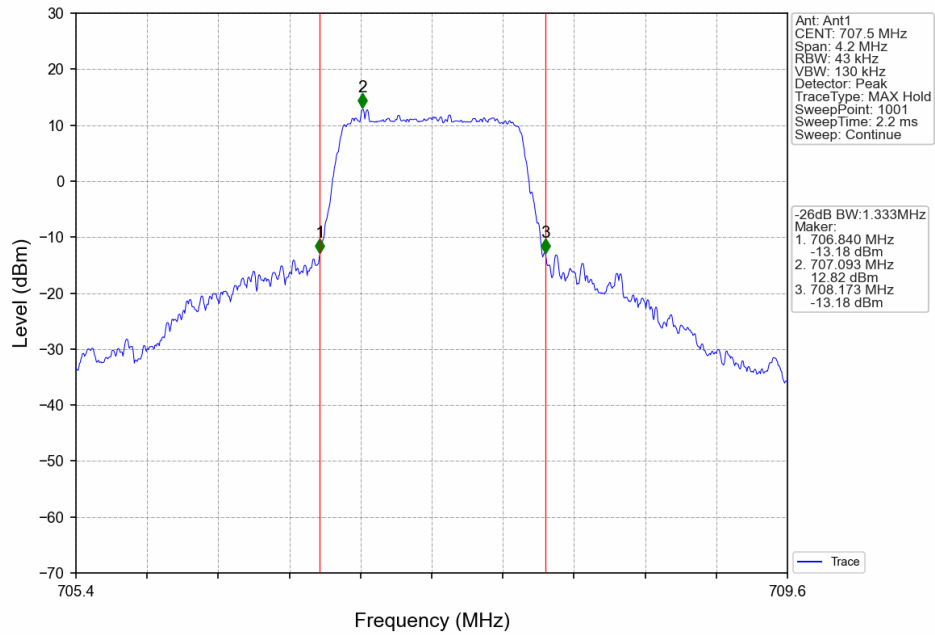
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



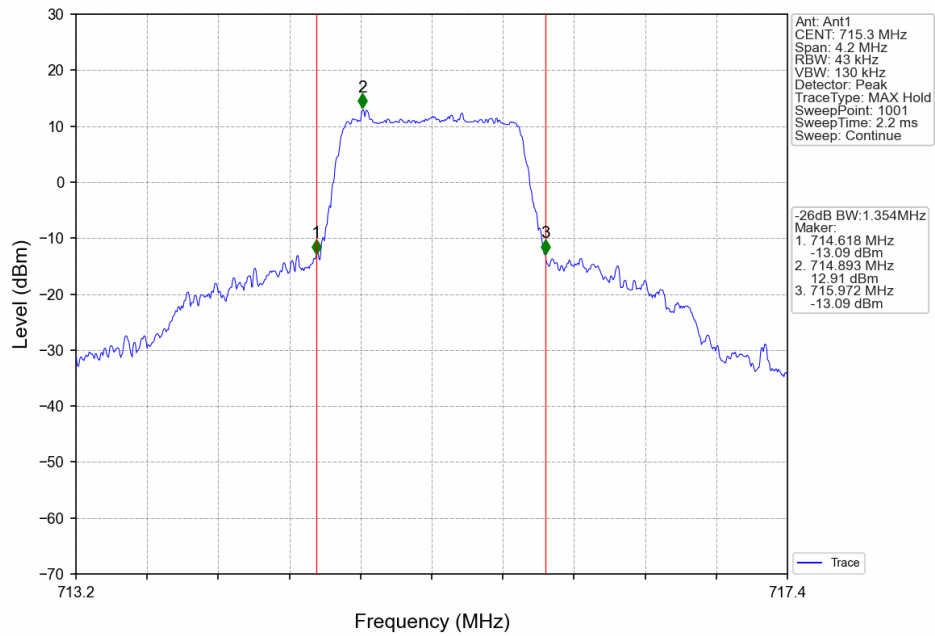
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



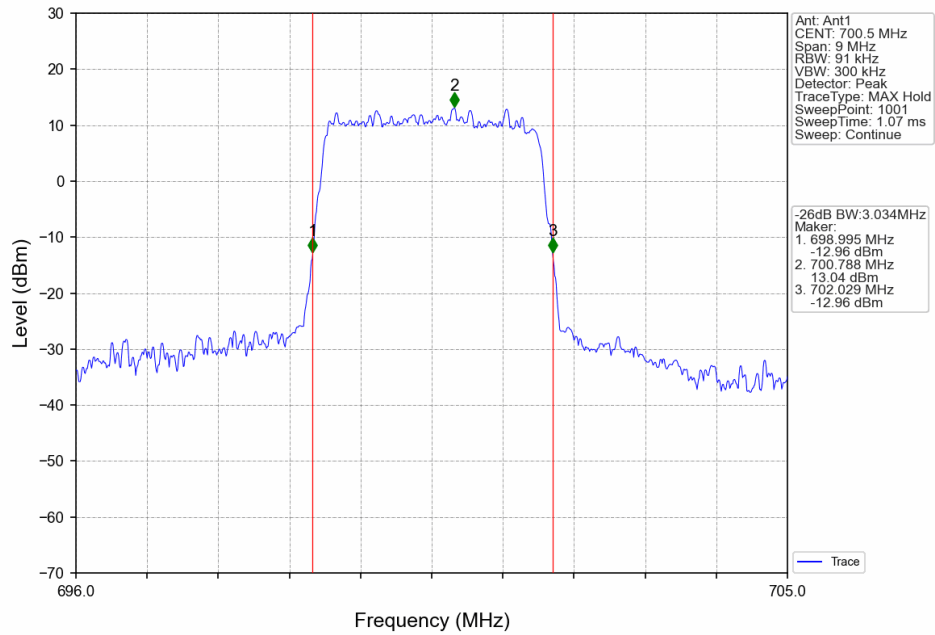
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



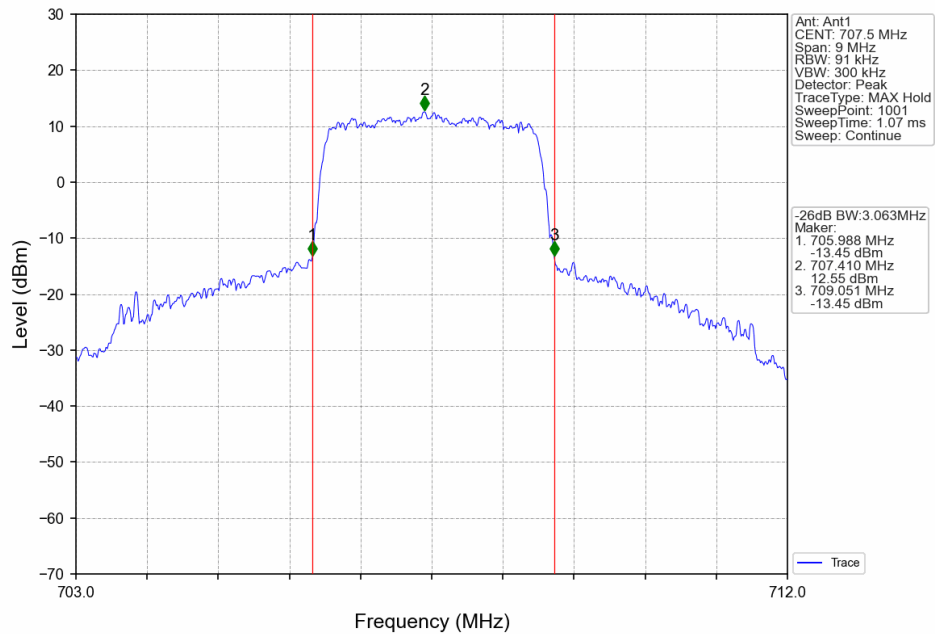
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



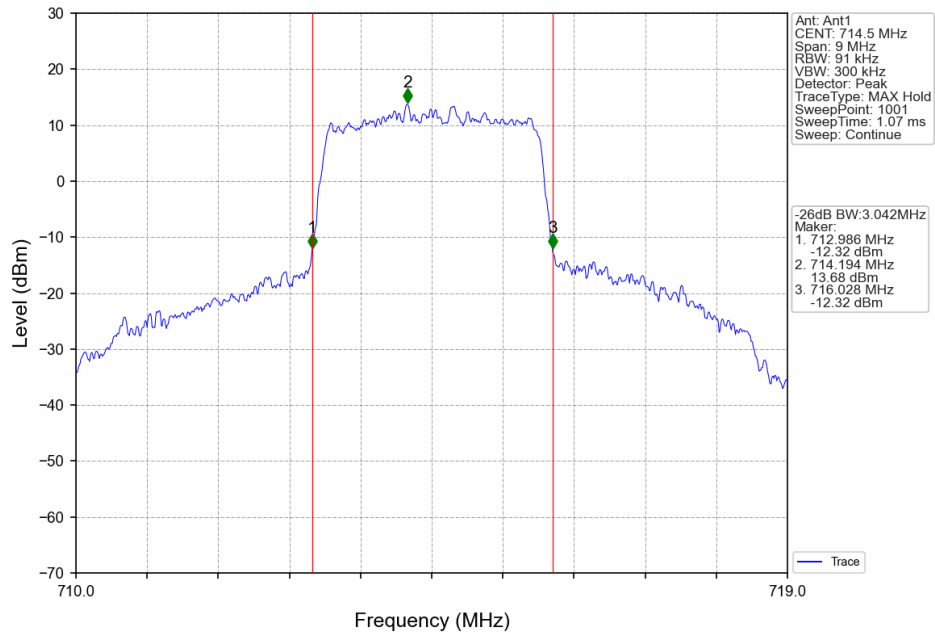
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



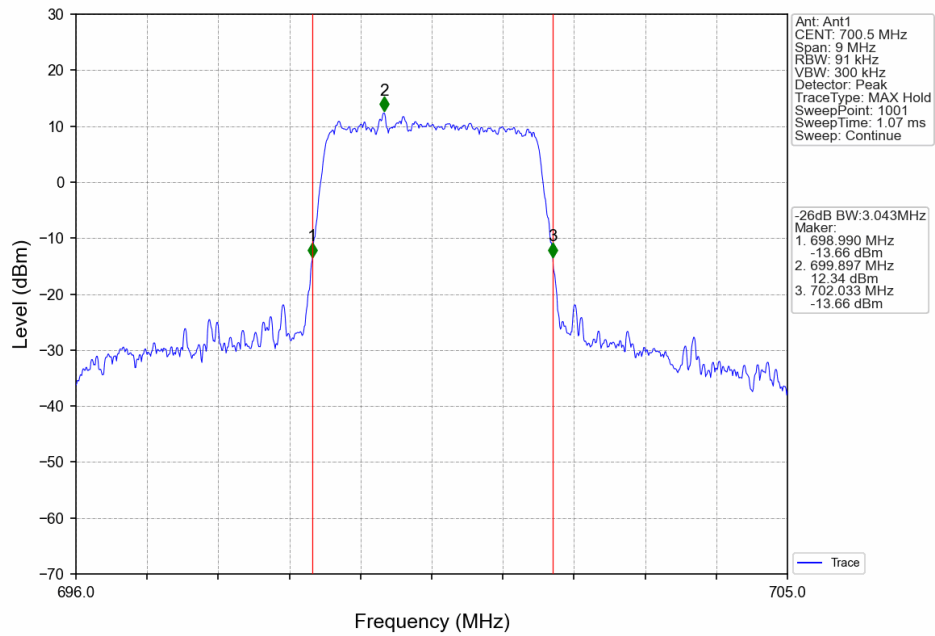
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



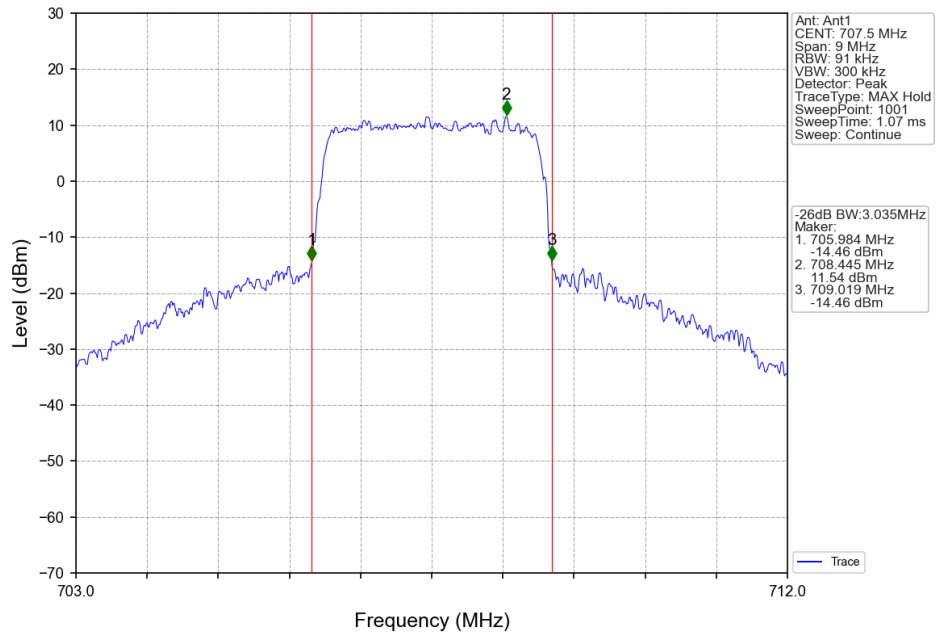
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



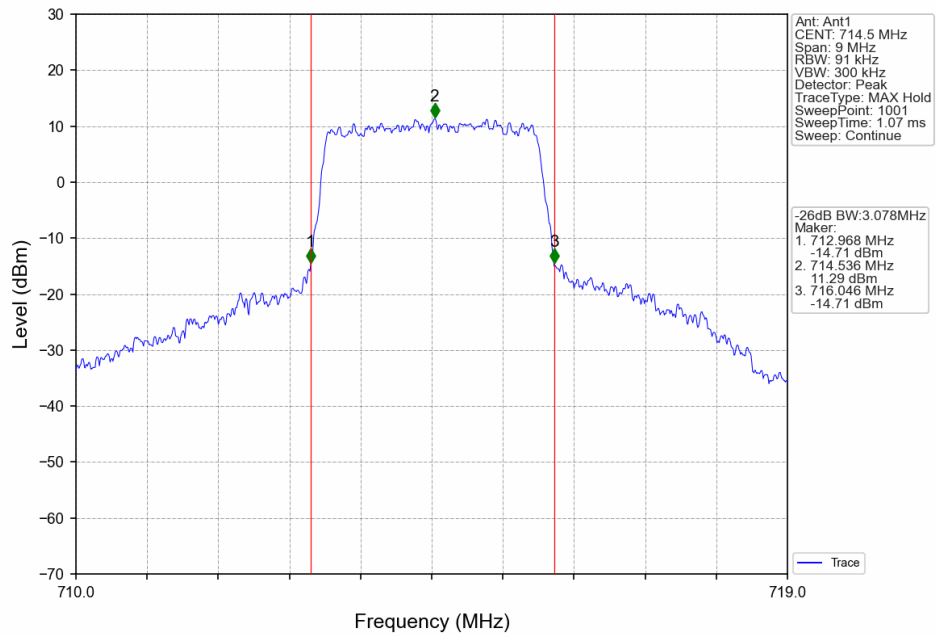
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



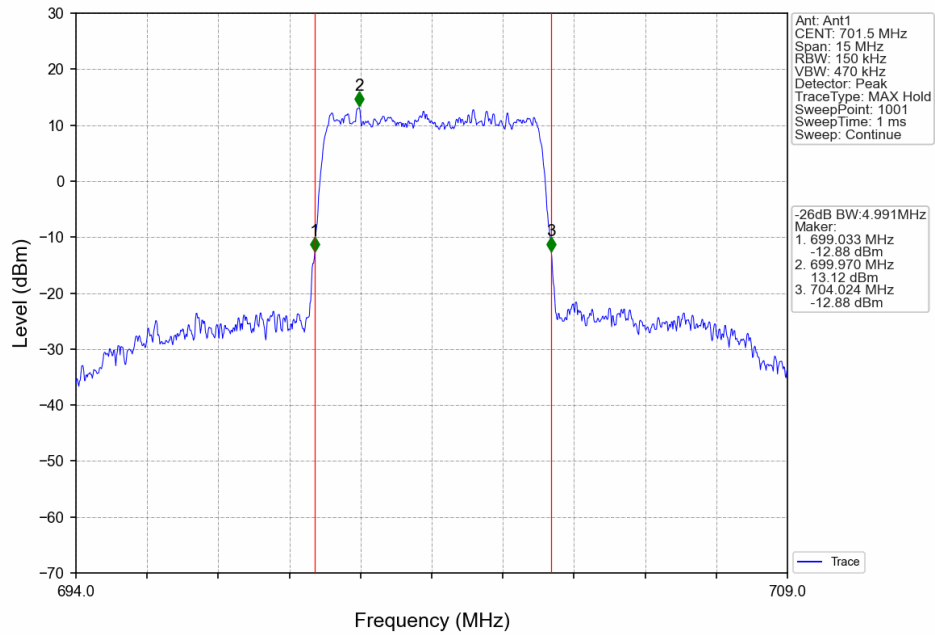
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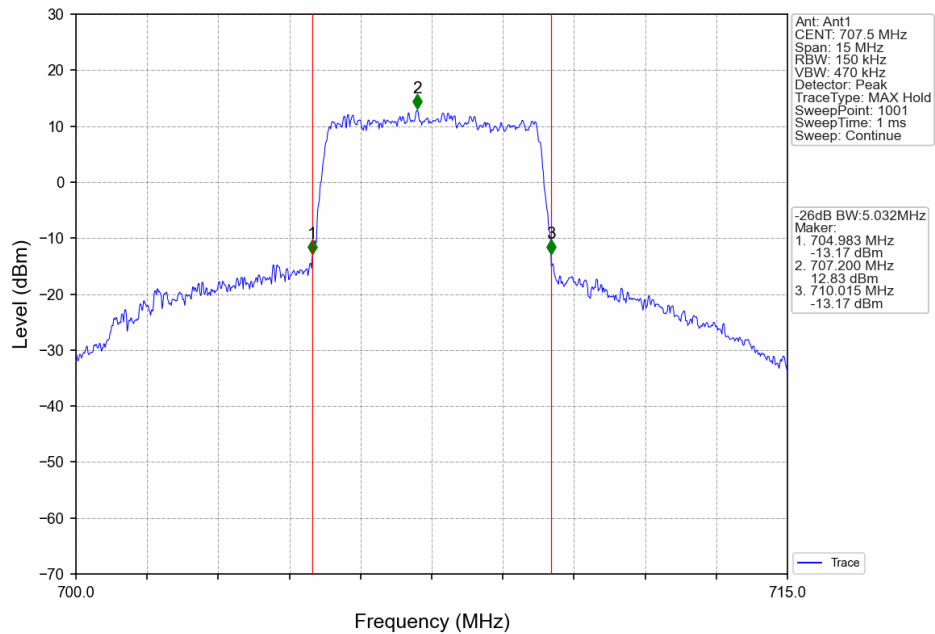
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



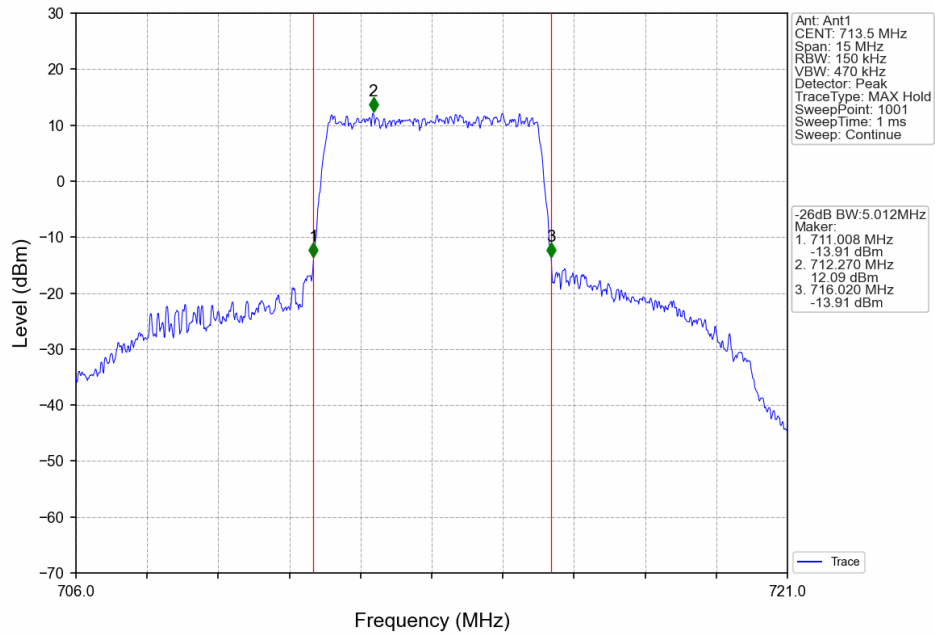
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



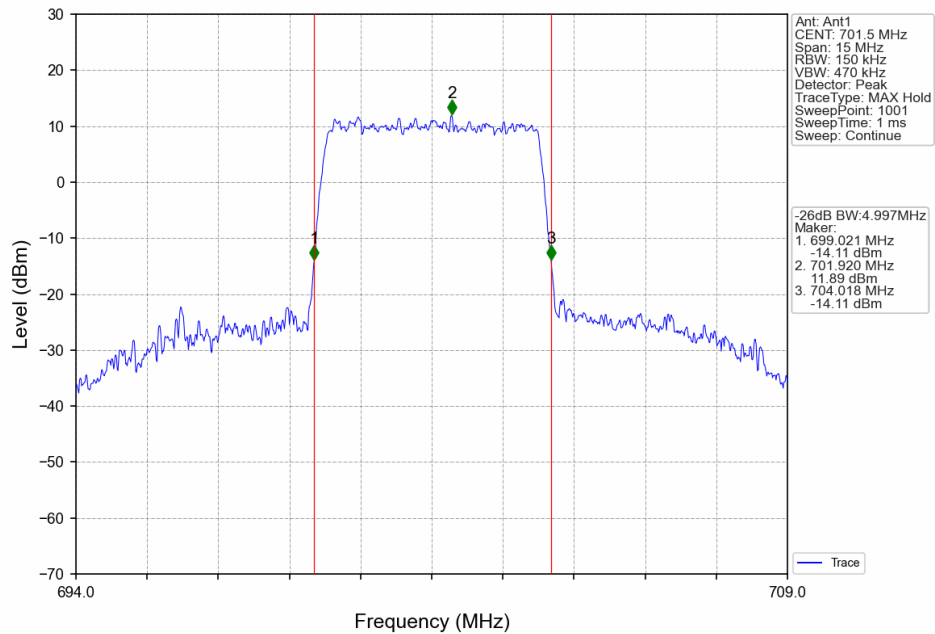
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



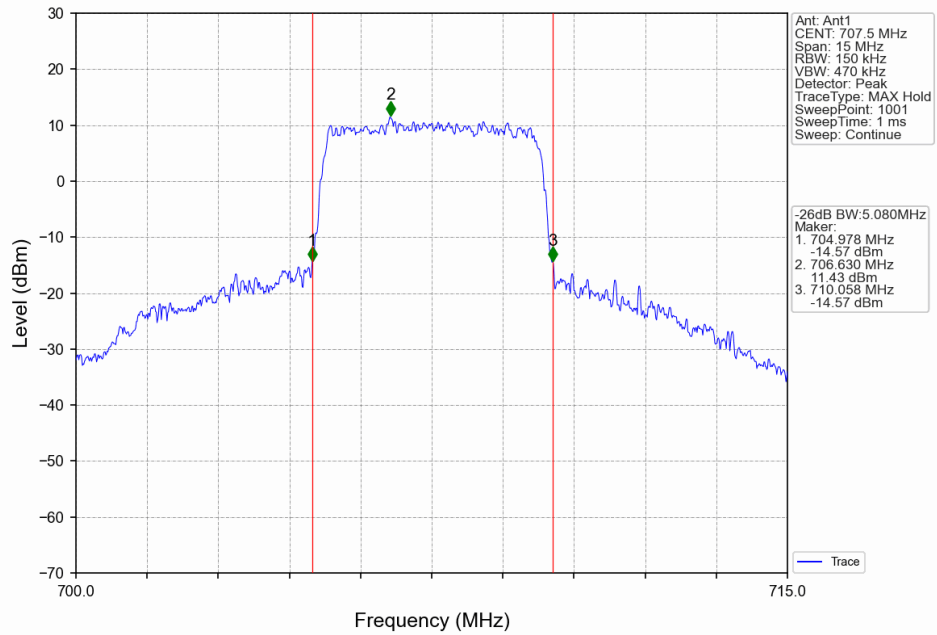
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



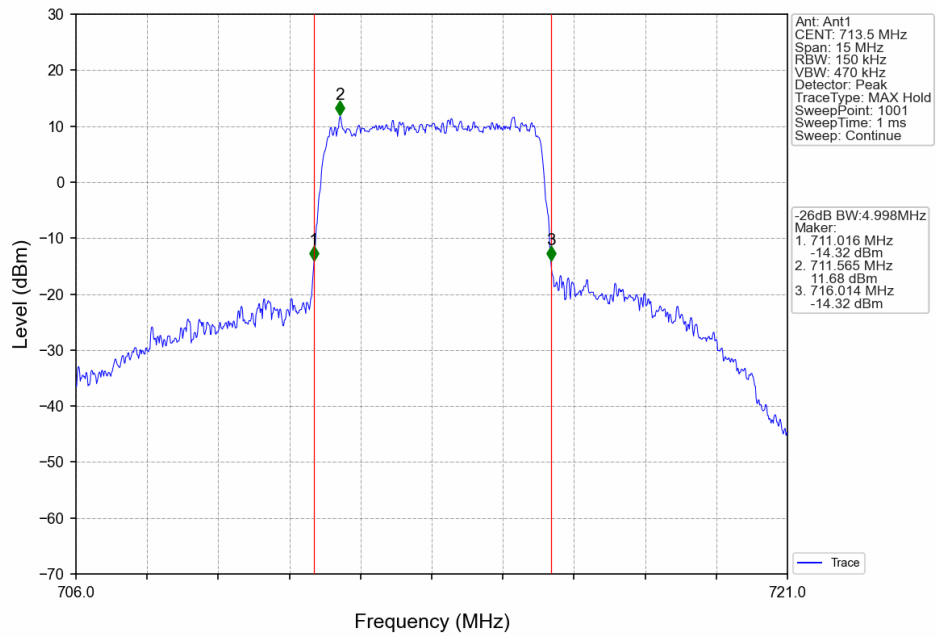
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



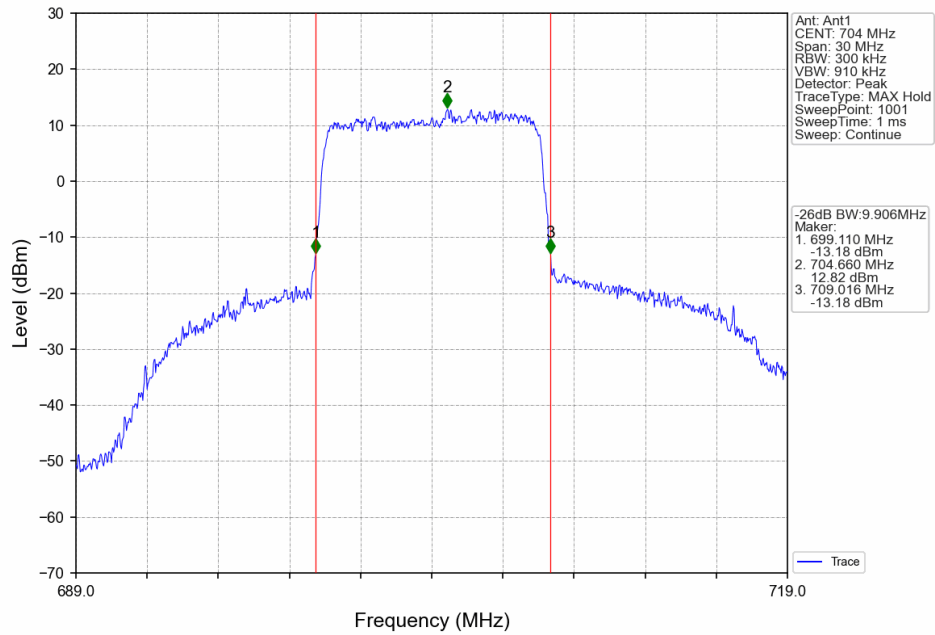
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



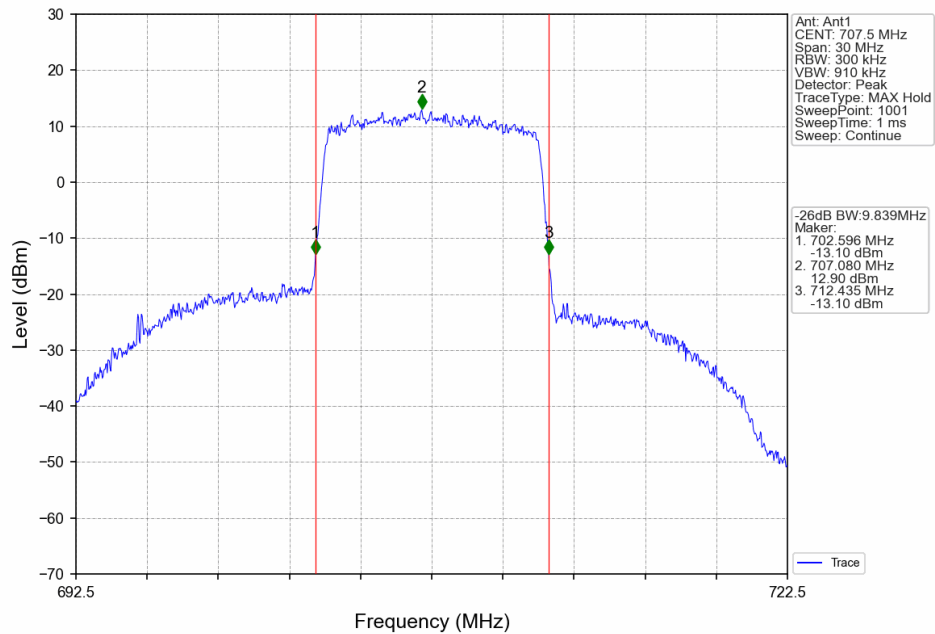
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



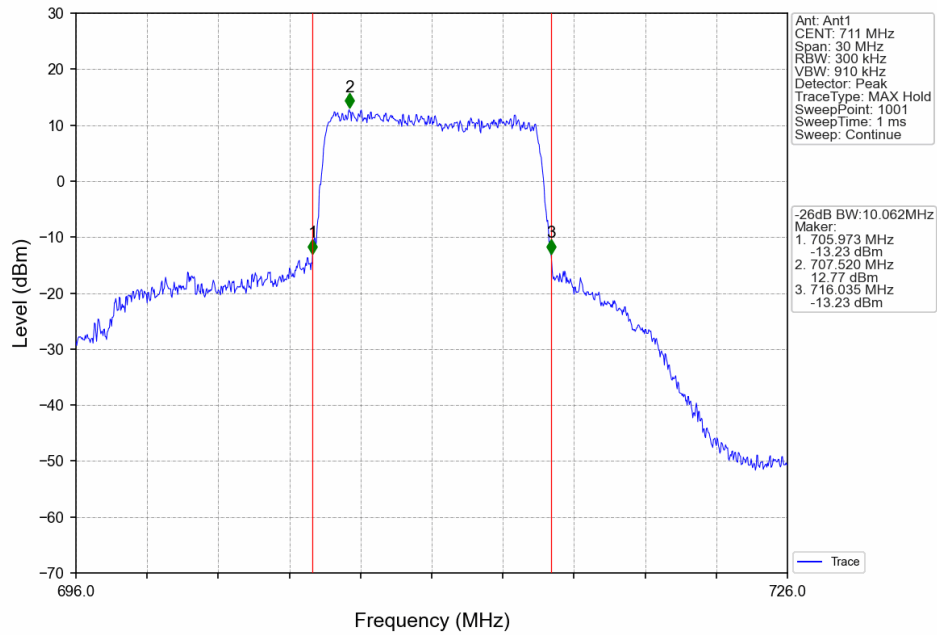
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



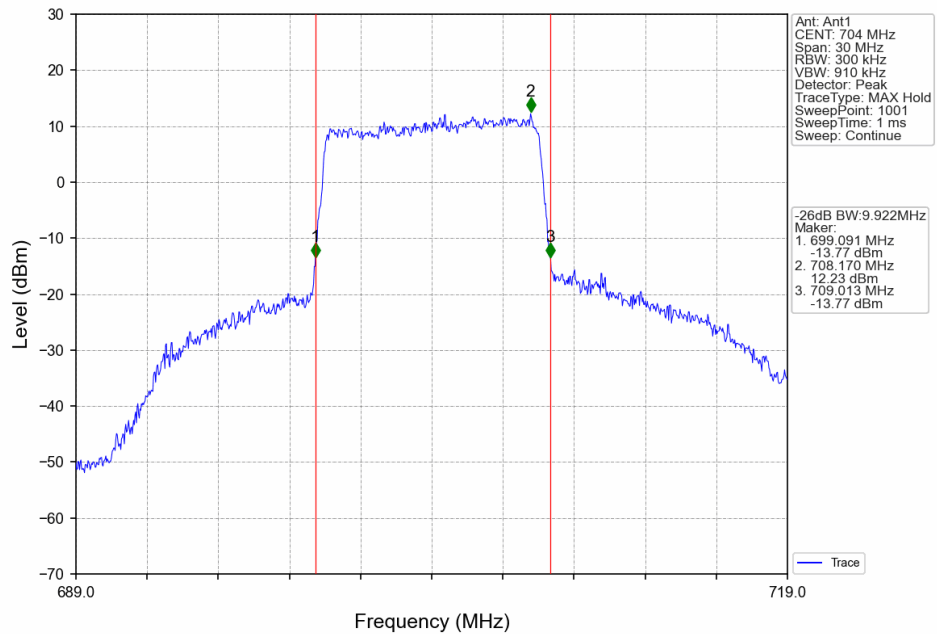
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



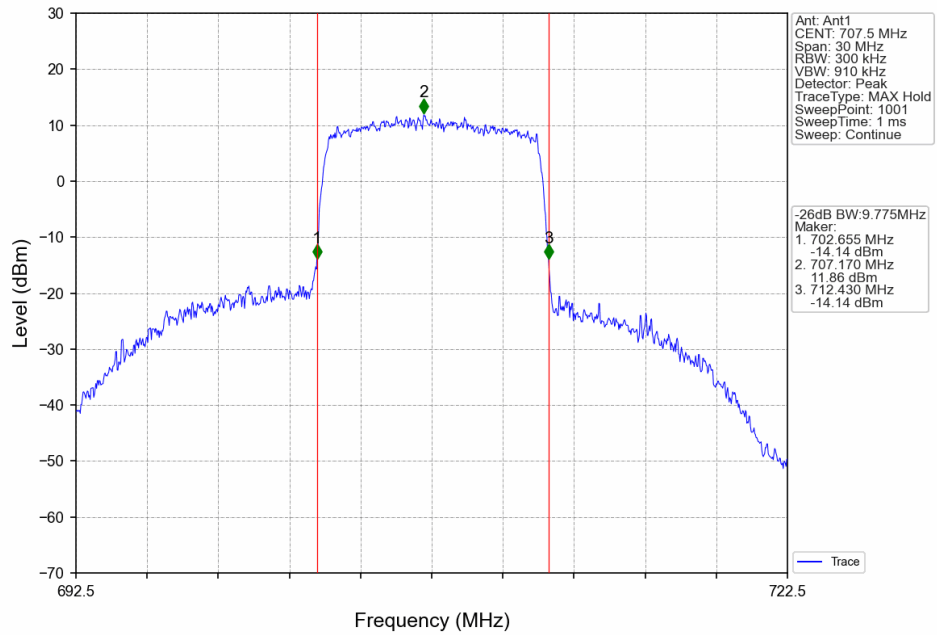
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



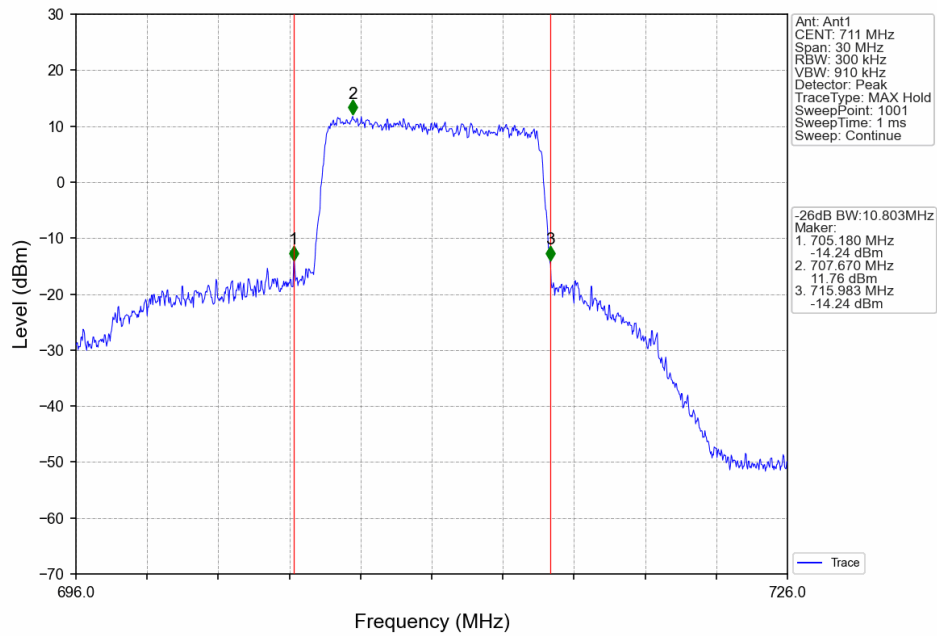
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	6	0	5.46	<=13	Pass
	707.5	6	0	2.77	<=13	Pass
	715.3	6	0	2.59	<=13	Pass
16QAM	699.7	6	0	6.24	<=13	Pass
	707.5	6	0	4.06	<=13	Pass
	715.3	6	0	3.73	<=13	Pass

5.1.2 B12_3MHz

Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	5.70	<=13	Pass
	707.5	15	0	3.39	<=13	Pass
	714.5	15	0	3.64	<=13	Pass
16QAM	700.5	15	0	6.56	<=13	Pass
	707.5	15	0	4.31	<=13	Pass
	714.5	15	0	4.71	<=13	Pass

5.1.3 B12_5MHz

Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	5.61	<=13	Pass
	707.5	25	0	4.28	<=13	Pass
	713.5	25	0	4.88	<=13	Pass
16QAM	701.5	25	0	6.35	<=13	Pass
	707.5	25	0	4.99	<=13	Pass
	713.5	25	0	5.72	<=13	Pass

5.1.4 B12_10MHz

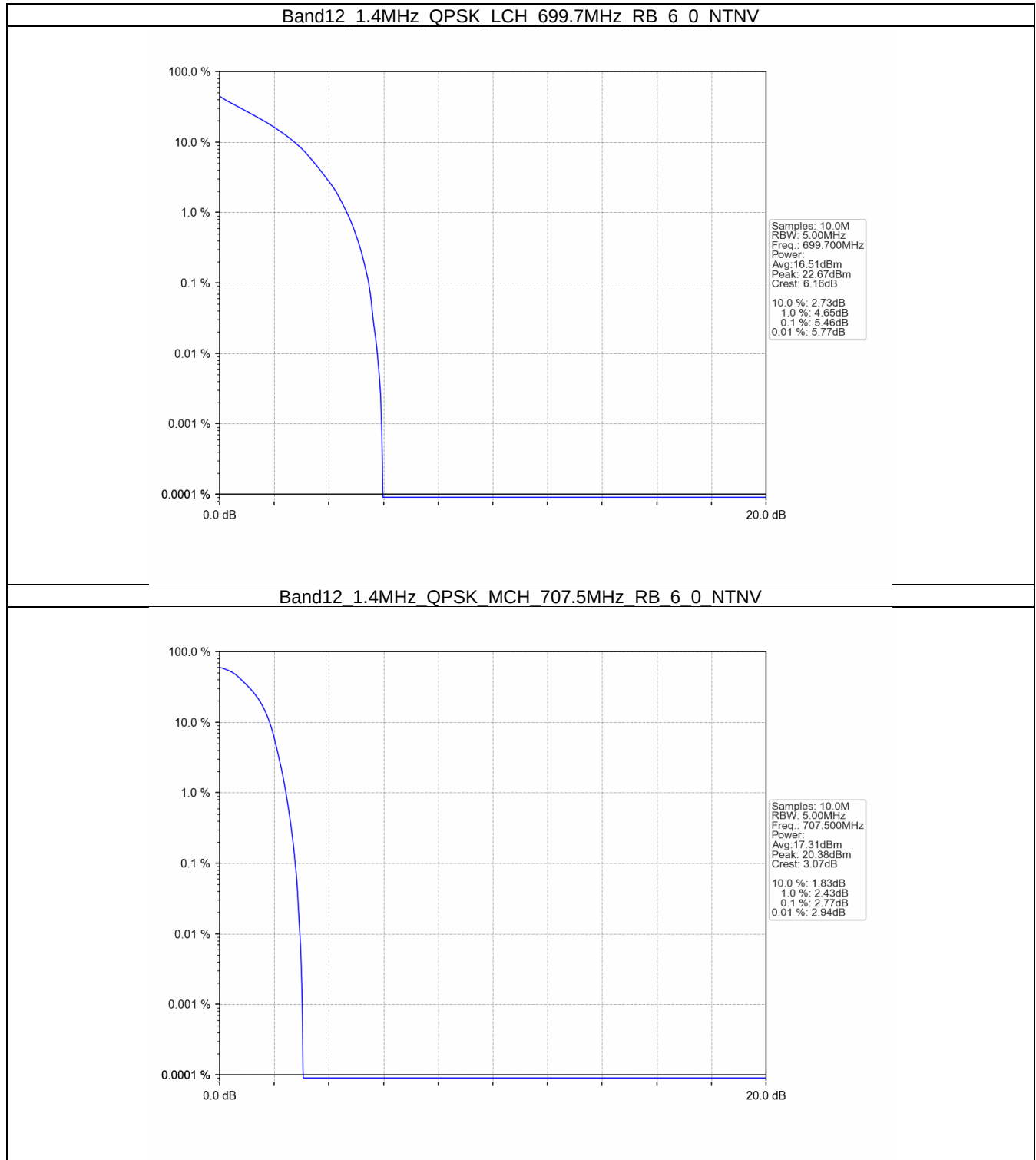
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	4.90	<=13	Pass
	707.5	50	0	4.82	<=13	Pass
	711	50	0	4.73	<=13	Pass
16QAM	704	50	0	5.66	<=13	Pass



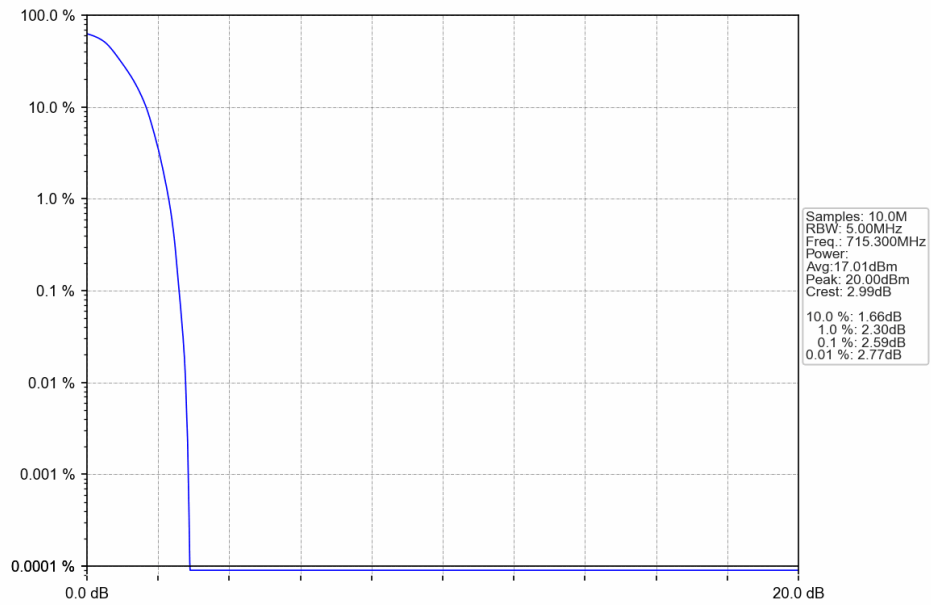
	707.5	50	0	5.58	≤ 13	Pass
	711	50	0	5.63	≤ 13	Pass

5.2 Test Graph

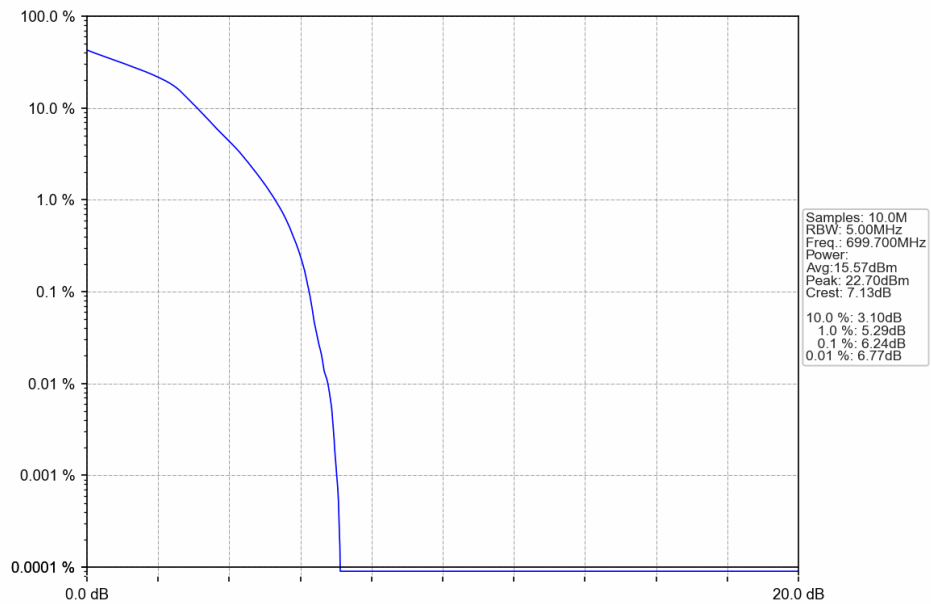
5.2.1 B12_1.4MHz



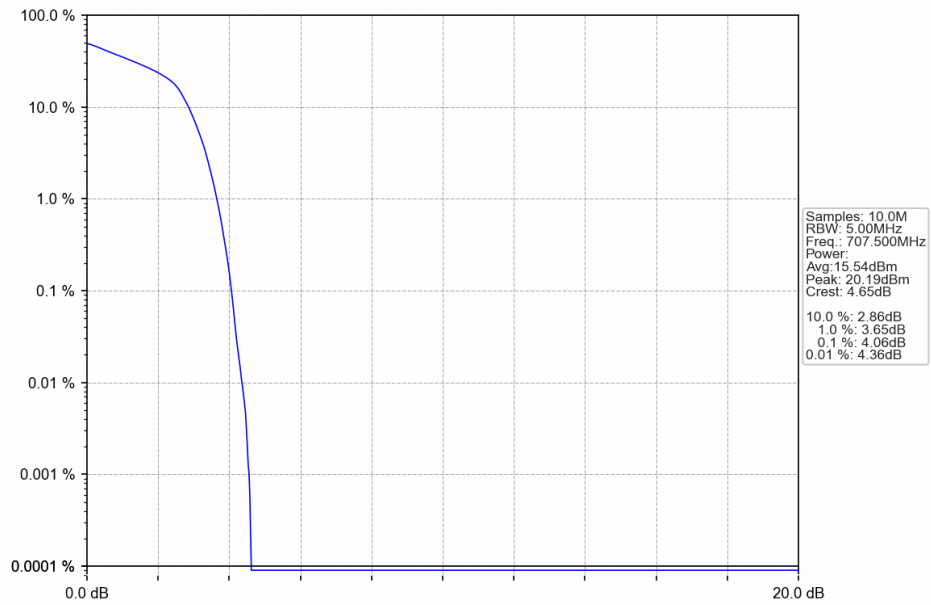
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



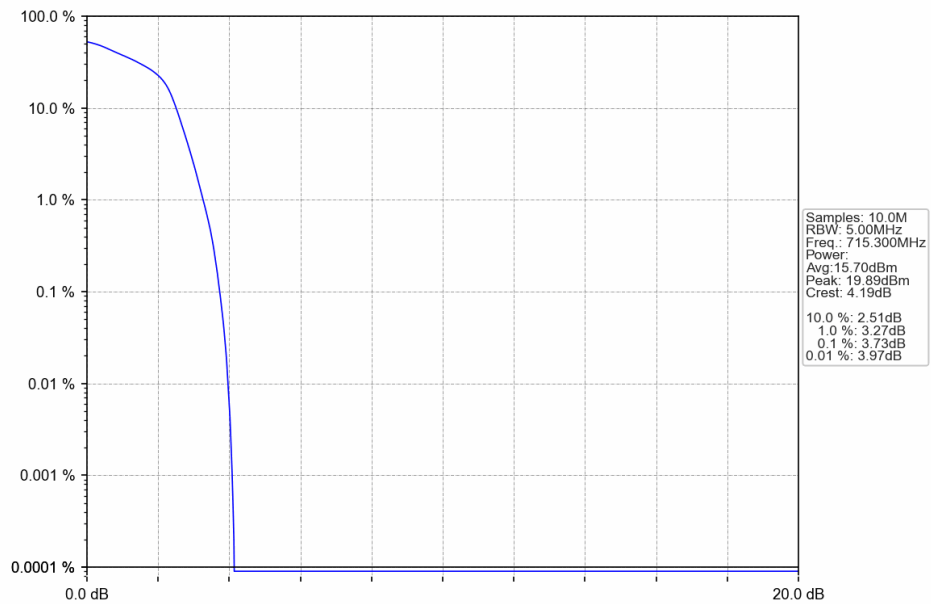
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



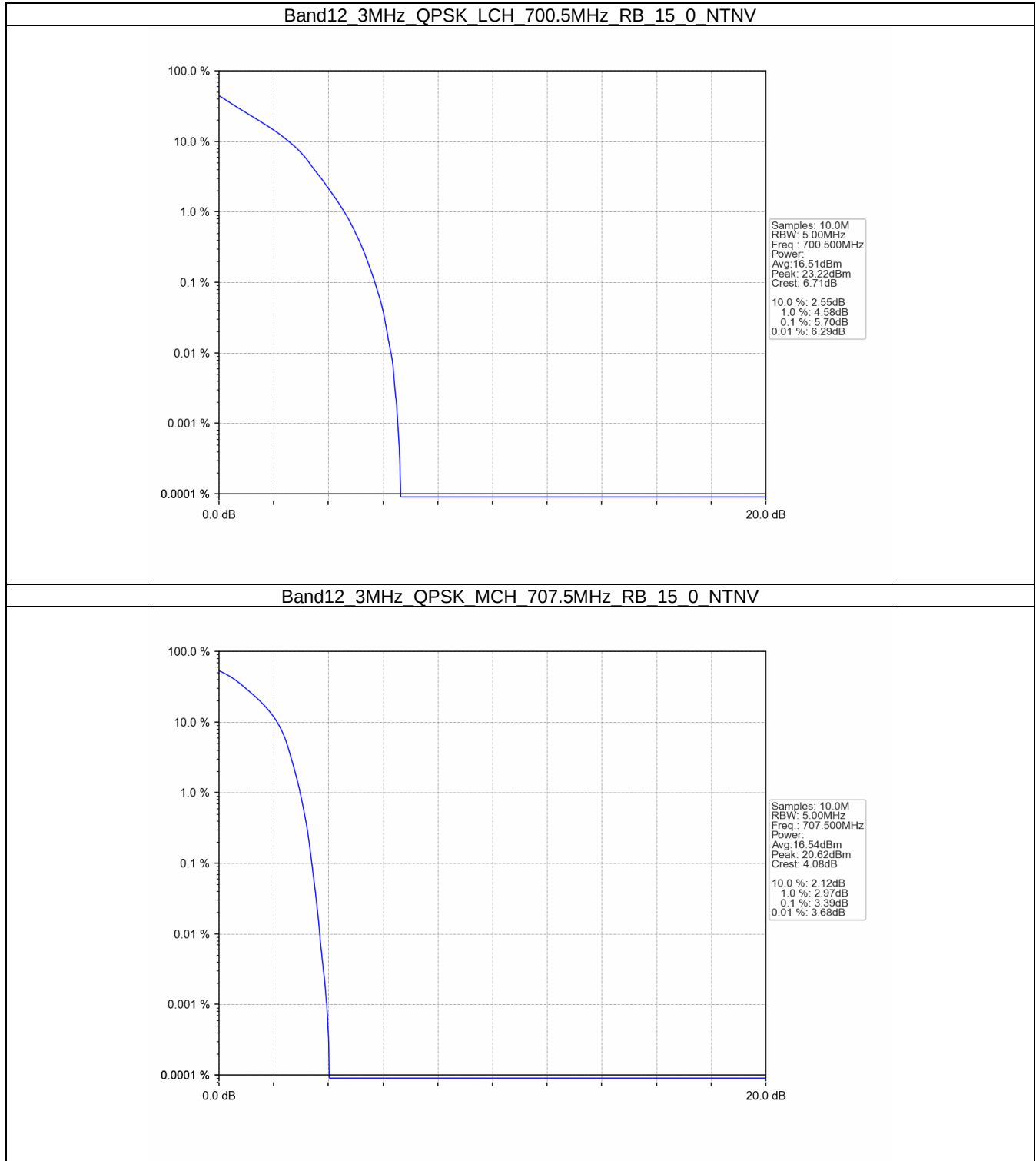
Band12 1.4MHz 16QAM MCH 707.5MHz RB 6 0 NTNV



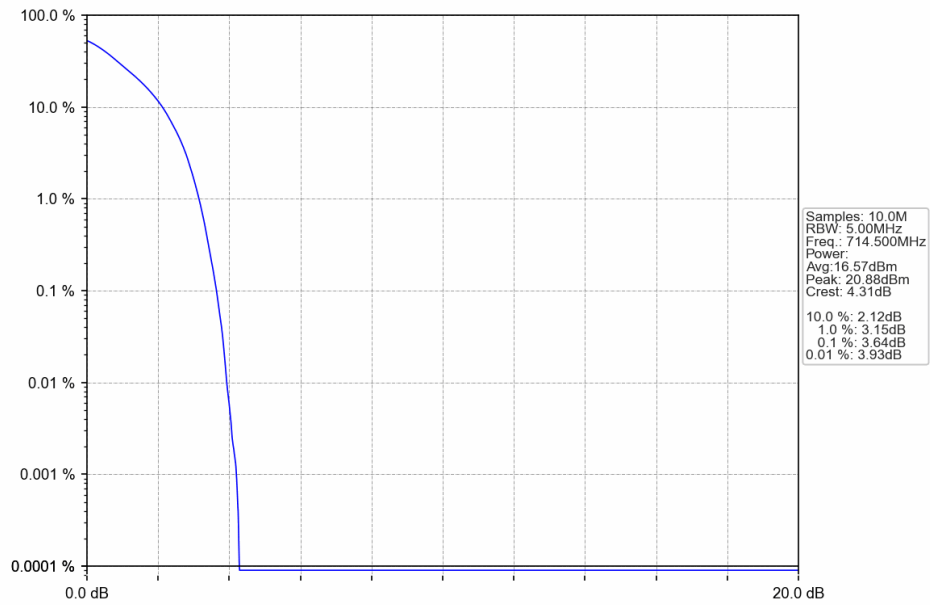
Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV



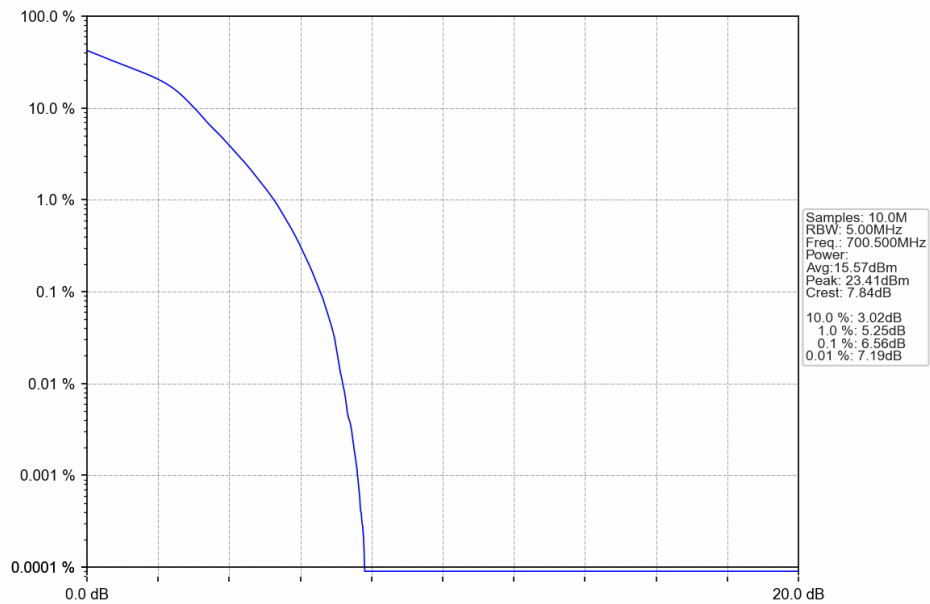
5.2.2 B12_3MHz



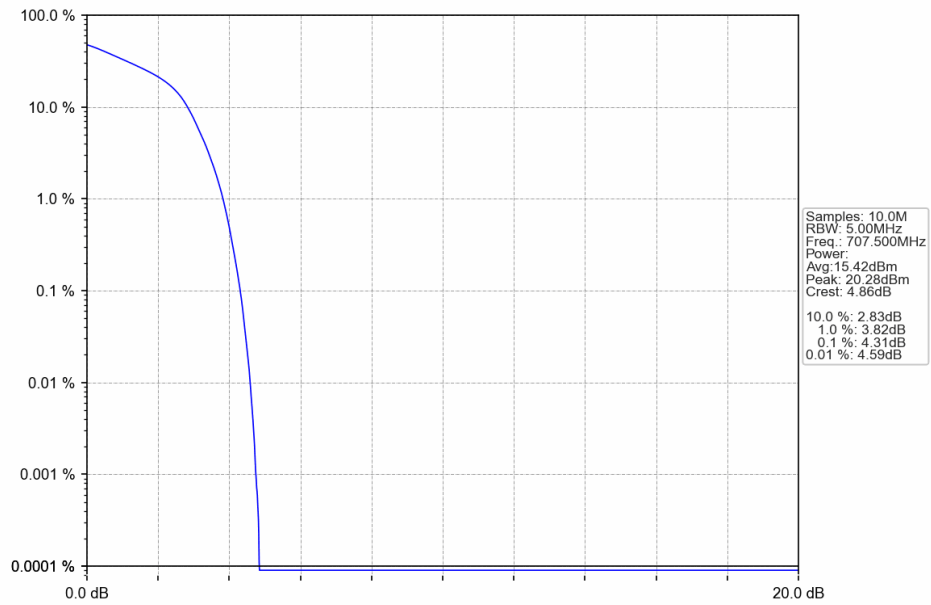
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



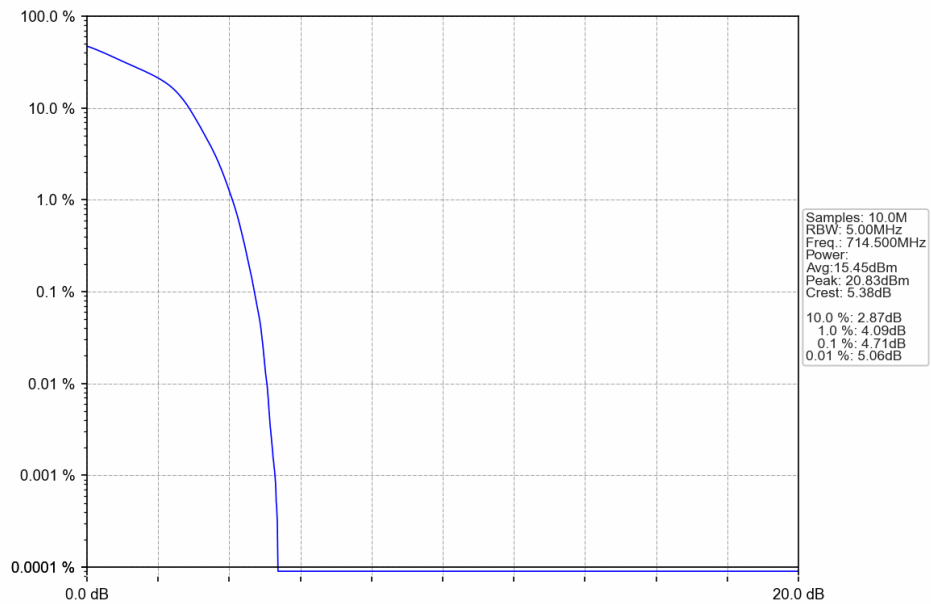
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



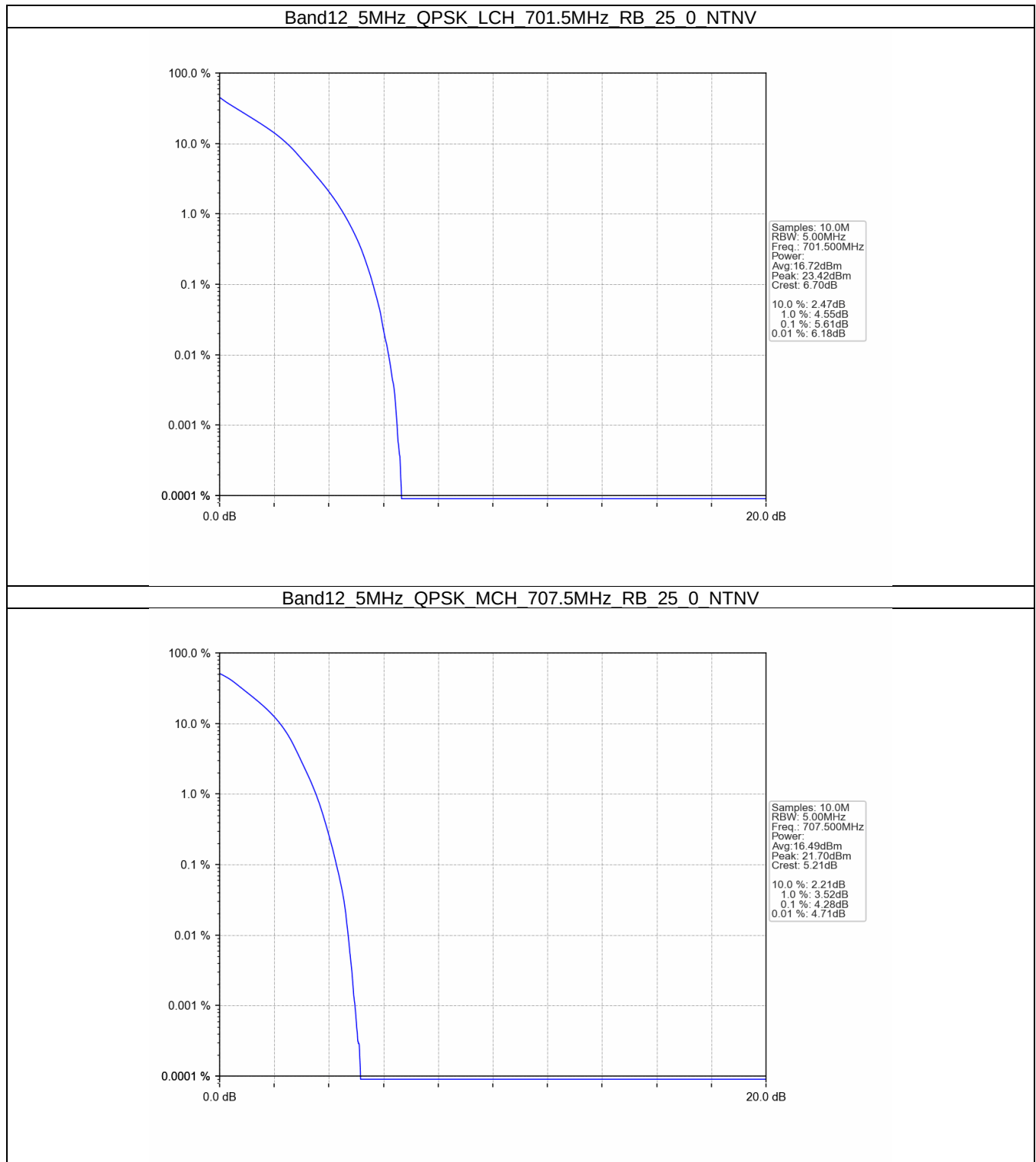
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



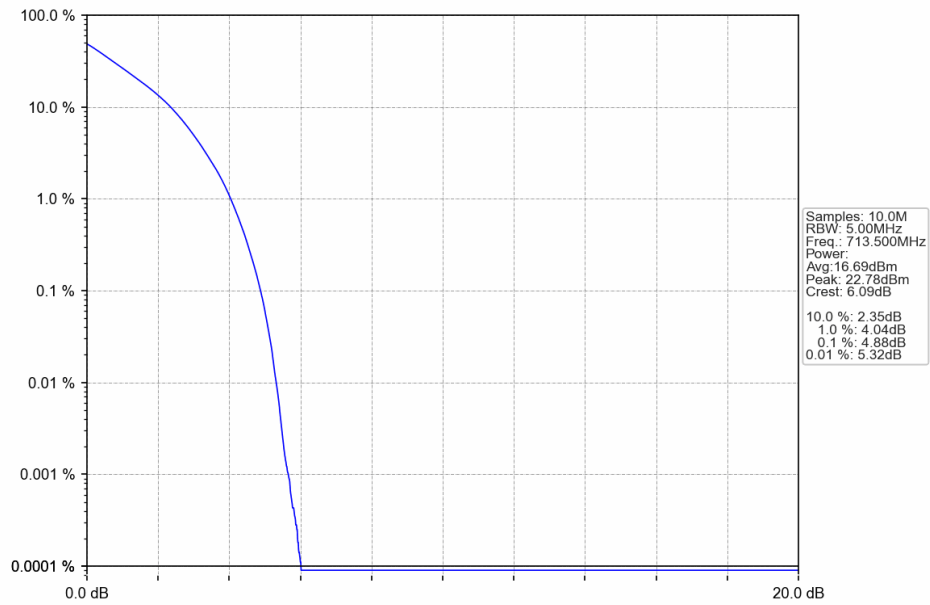
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



5.2.3 B12_5MHz



Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV

