

Appendix RF test data for LTE_band_12

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B12_1.4MHz_ERP

Band: 12 / Bandwidth: 1.4MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	699.7	1	0	23.54	1.90	23.29	<=34.77	Pass
			2	23.59	1.90	23.34	<=34.77	Pass
			5	23.57	1.90	23.32	<=34.77	Pass
		3	0	23.59	1.90	23.34	<=34.77	Pass
			2	23.62	1.90	23.37	<=34.77	Pass
			3	23.59	1.90	23.34	<=34.77	Pass
		6	0	22.52	1.90	22.27	<=34.77	Pass
	707.5	1	0	23.45	1.90	23.20	<=34.77	Pass
			2	23.47	1.90	23.22	<=34.77	Pass
			5	23.46	1.90	23.21	<=34.77	Pass
		3	0	23.50	1.90	23.25	<=34.77	Pass
			2	23.52	1.90	23.27	<=34.77	Pass
			3	23.54	1.90	23.29	<=34.77	Pass
		6	0	22.58	1.90	22.33	<=34.77	Pass
	715.3	1	0	23.42	1.90	23.17	<=34.77	Pass
			2	23.44	1.90	23.19	<=34.77	Pass
			5	23.41	1.90	23.16	<=34.77	Pass
		3	0	23.53	1.90	23.28	<=34.77	Pass
			2	23.51	1.90	23.26	<=34.77	Pass
			3	23.49	1.90	23.24	<=34.77	Pass
		6	0	22.50	1.90	22.25	<=34.77	Pass
16QAM	699.7	1	0	22.56	1.90	22.31	<=34.77	Pass
			2	22.58	1.90	22.33	<=34.77	Pass
			5	22.62	1.90	22.37	<=34.77	Pass
		3	0	22.60	1.90	22.35	<=34.77	Pass
			2	22.61	1.90	22.36	<=34.77	Pass
			3	22.59	1.90	22.34	<=34.77	Pass
		6	0	21.55	1.90	21.30	<=34.77	Pass
	707.5	1	0	22.70	1.90	22.45	<=34.77	Pass
			2	22.70	1.90	22.45	<=34.77	Pass
			5	22.72	1.90	22.47	<=34.77	Pass
		3	0	22.47	1.90	22.22	<=34.77	Pass
			2	22.50	1.90	22.25	<=34.77	Pass
			3	22.52	1.90	22.27	<=34.77	Pass
		6	0	21.56	1.90	21.31	<=34.77	Pass
	715.3	1	0	22.49	1.90	22.24	<=34.77	Pass
			2	22.49	1.90	22.24	<=34.77	Pass
			5	22.48	1.90	22.23	<=34.77	Pass
		3	0	22.66	1.90	22.41	<=34.77	Pass
			2	22.67	1.90	22.42	<=34.77	Pass
			3	22.68	1.90	22.43	<=34.77	Pass
		6	0	21.51	1.90	21.26	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B12_3MHz_ERP

Band: 12 / Bandwidth: 3MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	700.5	1	0	23.55	1.90	23.30	<=34.77	Pass
			7	23.63	1.90	23.38	<=34.77	Pass
			14	23.60	1.90	23.35	<=34.77	Pass
		8	0	22.53	1.90	22.28	<=34.77	Pass
			4	22.54	1.90	22.29	<=34.77	Pass
			7	22.54	1.90	22.29	<=34.77	Pass
		15	0	22.53	1.90	22.28	<=34.77	Pass
	707.5	1	0	23.47	1.90	23.22	<=34.77	Pass
			7	23.52	1.90	23.27	<=34.77	Pass
			14	23.50	1.90	23.25	<=34.77	Pass
		8	0	22.53	1.90	22.28	<=34.77	Pass
			4	22.51	1.90	22.26	<=34.77	Pass
			7	22.49	1.90	22.24	<=34.77	Pass
		15	0	22.50	1.90	22.25	<=34.77	Pass
	714.5	1	0	23.56	1.90	23.31	<=34.77	Pass
			7	23.62	1.90	23.37	<=34.77	Pass
			14	23.49	1.90	23.24	<=34.77	Pass
		8	0	22.49	1.90	22.24	<=34.77	Pass
			4	22.46	1.90	22.21	<=34.77	Pass
			7	22.43	1.90	22.18	<=34.77	Pass
		15	0	22.47	1.90	22.22	<=34.77	Pass
16QAM	700.5	1	0	22.58	1.90	22.33	<=34.77	Pass
			7	22.63	1.90	22.38	<=34.77	Pass
			14	22.63	1.90	22.38	<=34.77	Pass
		8	0	21.65	1.90	21.40	<=34.77	Pass
			4	21.72	1.90	21.47	<=34.77	Pass
			7	21.69	1.90	21.44	<=34.77	Pass
		15	0	21.68	1.90	21.43	<=34.77	Pass
	707.5	1	0	22.70	1.90	22.45	<=34.77	Pass
			7	22.73	1.90	22.48	<=34.77	Pass
			14	22.72	1.90	22.47	<=34.77	Pass
		8	0	21.51	1.90	21.26	<=34.77	Pass
			4	21.52	1.90	21.27	<=34.77	Pass
			7	21.52	1.90	21.27	<=34.77	Pass
		15	0	21.47	1.90	21.22	<=34.77	Pass
	714.5	1	0	23.05	1.90	22.80	<=34.77	Pass
			7	23.02	1.90	22.77	<=34.77	Pass
			14	22.94	1.90	22.69	<=34.77	Pass
		8	0	21.81	1.90	21.56	<=34.77	Pass
			4	21.76	1.90	21.51	<=34.77	Pass
			7	21.71	1.90	21.46	<=34.77	Pass
		15	0	21.65	1.90	21.40	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.3 B12_5MHz_ERP

Band: 12 / Bandwidth: 5MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	701.5	1	0	23.69	1.90	23.44	<=34.77	Pass
			13	23.71	1.90	23.46	<=34.77	Pass
			24	23.73	1.90	23.48	<=34.77	Pass



16QAM	707.5	12	0	22.47	1.90	22.22	<=34.77	Pass
			6	22.54	1.90	22.29	<=34.77	Pass
			13	22.51	1.90	22.26	<=34.77	Pass
		25	0	22.51	1.90	22.26	<=34.77	Pass
		1	0	23.61	1.90	23.36	<=34.77	Pass
			13	23.62	1.90	23.37	<=34.77	Pass
			24	23.64	1.90	23.39	<=34.77	Pass
		12	0	22.57	1.90	22.32	<=34.77	Pass
			6	22.54	1.90	22.29	<=34.77	Pass
			13	22.53	1.90	22.28	<=34.77	Pass
		25	0	22.57	1.90	22.32	<=34.77	Pass
	713.5	1	0	23.55	1.90	23.30	<=34.77	Pass
			13	23.52	1.90	23.27	<=34.77	Pass
			24	23.54	1.90	23.29	<=34.77	Pass
		12	0	22.57	1.90	22.32	<=34.77	Pass
			6	22.53	1.90	22.28	<=34.77	Pass
			13	22.38	1.90	22.13	<=34.77	Pass
		25	0	22.50	1.90	22.25	<=34.77	Pass
16QAM	701.5	1	0	22.43	1.90	22.18	<=34.77	Pass
			13	22.46	1.90	22.21	<=34.77	Pass
			24	22.54	1.90	22.29	<=34.77	Pass
		12	0	21.56	1.90	21.31	<=34.77	Pass
			6	21.62	1.90	21.37	<=34.77	Pass
			13	21.62	1.90	21.37	<=34.77	Pass
		25	0	21.64	1.90	21.39	<=34.77	Pass
	707.5	1	0	22.67	1.90	22.42	<=34.77	Pass
			13	22.68	1.90	22.43	<=34.77	Pass
			24	22.69	1.90	22.44	<=34.77	Pass
		12	0	21.54	1.90	21.29	<=34.77	Pass
			6	21.54	1.90	21.29	<=34.77	Pass
			13	21.51	1.90	21.26	<=34.77	Pass
		25	0	21.59	1.90	21.34	<=34.77	Pass
	713.5	1	0	22.82	1.90	22.57	<=34.77	Pass
			13	22.77	1.90	22.52	<=34.77	Pass
			24	22.75	1.90	22.50	<=34.77	Pass
		12	0	21.66	1.90	21.41	<=34.77	Pass
			6	21.64	1.90	21.39	<=34.77	Pass
			13	21.48	1.90	21.23	<=34.77	Pass
		25	0	21.57	1.90	21.32	<=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	23.53	1.90	23.28	<=34.77	Pass
			25	23.62	1.90	23.37	<=34.77	Pass
			49	23.64	1.90	23.39	<=34.77	Pass
		25	0	22.53	1.90	22.28	<=34.77	Pass
			13	22.56	1.90	22.31	<=34.77	Pass
			25	22.55	1.90	22.30	<=34.77	Pass
	707.5	50	0	22.55	1.90	22.30	<=34.77	Pass
		1	0	23.52	1.90	23.27	<=34.77	Pass
			25	23.58	1.90	23.33	<=34.77	Pass
			49	23.59	1.90	23.34	<=34.77	Pass
		25	0	22.67	1.90	22.42	<=34.77	Pass
			13	22.56	1.90	22.31	<=34.77	Pass



	711	50	25	22.67	1.90	22.42	<=34.77	Pass
			0	22.67	1.90	22.42	<=34.77	Pass
		1	0	23.51	1.90	23.26	<=34.77	Pass
			25	23.54	1.90	23.29	<=34.77	Pass
			49	23.50	1.90	23.25	<=34.77	Pass
		25	0	22.45	1.90	22.20	<=34.77	Pass
			13	22.56	1.90	22.31	<=34.77	Pass
			25	22.43	1.90	22.18	<=34.77	Pass
		50	0	22.46	1.90	22.21	<=34.77	Pass
16QAM	704	1	0	23.03	1.90	22.78	<=34.77	Pass
			25	23.11	1.90	22.86	<=34.77	Pass
			49	23.07	1.90	22.82	<=34.77	Pass
		12	0	22.52	1.90	22.27	<=34.77	Pass
			19	22.63	1.90	22.38	<=34.77	Pass
			38	22.65	1.90	22.40	<=34.77	Pass
		27	0	21.60	1.90	21.35	<=34.77	Pass
	707.5	1	0	22.52	1.90	22.27	<=34.77	Pass
			25	22.59	1.90	22.34	<=34.77	Pass
			49	22.60	1.90	22.35	<=34.77	Pass
		12	0	22.64	1.90	22.39	<=34.77	Pass
			19	22.62	1.90	22.37	<=34.77	Pass
			38	22.67	1.90	22.42	<=34.77	Pass
		27	0	21.67	1.90	21.42	<=34.77	Pass
	711	1	0	22.68	1.90	22.43	<=34.77	Pass
			25	22.73	1.90	22.48	<=34.77	Pass
			49	22.65	1.90	22.40	<=34.77	Pass
		12	0	22.58	1.90	22.33	<=34.77	Pass
			19	22.56	1.90	22.31	<=34.77	Pass
			38	22.44	1.90	22.19	<=34.77	Pass
		27	23	21.51	1.90	21.26	<=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	0.200	0.0003	-2.5 to 2.5	Pass
					3.85	-0.858	-0.0012	-2.5 to 2.5	Pass
					4.43	0.401	0.0006	-2.5 to 2.5	Pass
				-30	3.85	-0.529	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	2.017	0.0029	-2.5 to 2.5	Pass
				-10	3.85	-0.815	-0.0012	-2.5 to 2.5	Pass
				0	3.85	1.459	0.0021	-2.5 to 2.5	Pass
				10	3.85	0.930	0.0013	-2.5 to 2.5	Pass
				30	3.85	0.057	0.0001	-2.5 to 2.5	Pass
				40	3.85	-1.459	-0.0021	-2.5 to 2.5	Pass
				50	3.85	0.458	0.0007	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	0.358	0.0005	-2.5 to 2.5	Pass
					3.85	0.629	0.0009	-2.5 to 2.5	Pass
					4.43	-0.858	-0.0012	-2.5 to 2.5	Pass
				-30	3.85	-2.532	-0.0036	-2.5 to 2.5	Pass



				-20	3.85	-1.030	-0.0015	-2.5 to 2.5	Pass
				-10	3.85	0.129	0.0002	-2.5 to 2.5	Pass
				0	3.85	-0.958	-0.0014	-2.5 to 2.5	Pass
				10	3.85	-1.874	-0.0026	-2.5 to 2.5	Pass
				30	3.85	-4.749	-0.0067	-2.5 to 2.5	Pass
				40	3.85	0.858	0.0012	-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	-1.459	-0.0020	-2.5 to 2.5	Pass
					3.85	-0.544	-0.0008	-2.5 to 2.5	Pass
					4.43	1.445	0.0020	-2.5 to 2.5	Pass
				-30	3.85	-1.130	-0.0016	-2.5 to 2.5	Pass
				-20	3.85	0.486	0.0007	-2.5 to 2.5	Pass
				-10	3.85	0.243	0.0003	-2.5 to 2.5	Pass
				0	3.85	-2.875	-0.0040	-2.5 to 2.5	Pass
				10	3.85	1.359	0.0019	-2.5 to 2.5	Pass
				30	3.85	-2.761	-0.0039	-2.5 to 2.5	Pass
				40	3.85	1.988	0.0028	-2.5 to 2.5	Pass
				50	3.85	1.459	0.0020	-2.5 to 2.5	Pass
16QAM	699.7	6	0	20	3.27	-1.588	-0.0023	-2.5 to 2.5	Pass
					3.85	1.531	0.0022	-2.5 to 2.5	Pass
					4.43	-2.546	-0.0036	-2.5 to 2.5	Pass
				-30	3.85	-5.622	-0.0080	-2.5 to 2.5	Pass
				-20	3.85	-0.229	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	-3.405	-0.0049	-2.5 to 2.5	Pass
				0	3.85	-1.273	-0.0018	-2.5 to 2.5	Pass
				10	3.85	-2.131	-0.0030	-2.5 to 2.5	Pass
				30	3.85	0.730	0.0010	-2.5 to 2.5	Pass
				40	3.85	-0.086	-0.0001	-2.5 to 2.5	Pass
				50	3.85	-0.801	-0.0011	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	-0.830	-0.0012	-2.5 to 2.5	Pass
					3.85	-0.486	-0.0007	-2.5 to 2.5	Pass
					4.43	-0.830	-0.0012	-2.5 to 2.5	Pass
				-30	3.85	-0.401	-0.0006	-2.5 to 2.5	Pass
				-20	3.85	-3.977	-0.0056	-2.5 to 2.5	Pass
				-10	3.85	-1.202	-0.0017	-2.5 to 2.5	Pass
				0	3.85	0.415	0.0006	-2.5 to 2.5	Pass
				10	3.85	-1.917	-0.0027	-2.5 to 2.5	Pass
				30	3.85	1.259	0.0018	-2.5 to 2.5	Pass
				40	3.85	-2.804	-0.0040	-2.5 to 2.5	Pass
				50	3.85	-1.788	-0.0025	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	3.319	0.0046	-2.5 to 2.5	Pass
					3.85	3.648	0.0051	-2.5 to 2.5	Pass
					4.43	-1.531	-0.0021	-2.5 to 2.5	Pass
				-30	3.85	1.016	0.0014	-2.5 to 2.5	Pass
				-20	3.85	0.887	0.0012	-2.5 to 2.5	Pass
				-10	3.85	0.057	0.0001	-2.5 to 2.5	Pass
				0	3.85	-2.131	-0.0030	-2.5 to 2.5	Pass
				10	3.85	2.403	0.0034	-2.5 to 2.5	Pass
				30	3.85	-3.390	-0.0047	-2.5 to 2.5	Pass
				40	3.85	3.805	0.0053	-2.5 to 2.5	Pass
				50	3.85	0.486	0.0007	-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	-3.262	-0.0047	-2.5 to 2.5	Pass



					3.85	-2.604	-0.0037	-2.5 to 2.5	Pass
					4.43	0.072	0.0001	-2.5 to 2.5	Pass
				-30	3.85	-2.432	-0.0035	-2.5 to 2.5	Pass
				-20	3.85	-0.429	-0.0006	-2.5 to 2.5	Pass
				-10	3.85	0.687	0.0010	-2.5 to 2.5	Pass
				0	3.85	0.501	0.0007	-2.5 to 2.5	Pass
				10	3.85	-0.172	-0.0002	-2.5 to 2.5	Pass
				30	3.85	-2.761	-0.0039	-2.5 to 2.5	Pass
				40	3.85	-1.059	-0.0015	-2.5 to 2.5	Pass
				50	3.85	-0.629	-0.0009	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	0.329	0.0005	-2.5 to 2.5	Pass
					3.85	-0.958	-0.0014	-2.5 to 2.5	Pass
				4.43	0.000	0.0000	-2.5 to 2.5	Pass	
				-30	3.85	0.172	0.0002	-2.5 to 2.5	Pass
				-20	3.85	0.429	0.0006	-2.5 to 2.5	Pass
				-10	3.85	1.631	0.0023	-2.5 to 2.5	Pass
				0	3.85	0.744	0.0011	-2.5 to 2.5	Pass
				10	3.85	0.458	0.0006	-2.5 to 2.5	Pass
				30	3.85	-0.329	-0.0005	-2.5 to 2.5	Pass
				40	3.85	0.472	0.0007	-2.5 to 2.5	Pass
	50	3.85	-1.760	-0.0025	-2.5 to 2.5	Pass			
	714.5	15	0	20	3.27	-1.574	-0.0022	-2.5 to 2.5	Pass
					3.85	-2.789	-0.0039	-2.5 to 2.5	Pass
				4.43	-1.402	-0.0020	-2.5 to 2.5	Pass	
				-30	3.85	-1.416	-0.0020	-2.5 to 2.5	Pass
				-20	3.85	-1.488	-0.0021	-2.5 to 2.5	Pass
				-10	3.85	0.415	0.0006	-2.5 to 2.5	Pass
				0	3.85	-1.831	-0.0026	-2.5 to 2.5	Pass
				10	3.85	-0.172	-0.0002	-2.5 to 2.5	Pass
				30	3.85	-2.346	-0.0033	-2.5 to 2.5	Pass
				40	3.85	-0.615	-0.0009	-2.5 to 2.5	Pass
50	3.85	-1.645	-0.0023	-2.5 to 2.5	Pass				
16QAM	700.5	15	0	20	3.27	-1.788	-0.0026	-2.5 to 2.5	Pass
					3.85	0.329	0.0005	-2.5 to 2.5	Pass
				4.43	-2.260	-0.0032	-2.5 to 2.5	Pass	
				-30	3.85	-4.063	-0.0058	-2.5 to 2.5	Pass
				-20	3.85	-2.589	-0.0037	-2.5 to 2.5	Pass
				-10	3.85	-1.645	-0.0023	-2.5 to 2.5	Pass
				0	3.85	-1.931	-0.0028	-2.5 to 2.5	Pass
				10	3.85	0.744	0.0011	-2.5 to 2.5	Pass
				30	3.85	-1.531	-0.0022	-2.5 to 2.5	Pass
				40	3.85	-3.376	-0.0048	-2.5 to 2.5	Pass
	50	3.85	1.674	0.0024	-2.5 to 2.5	Pass			
	707.5	15	0	20	3.27	3.762	0.0053	-2.5 to 2.5	Pass
					3.85	-2.003	-0.0028	-2.5 to 2.5	Pass
				4.43	-0.186	-0.0003	-2.5 to 2.5	Pass	
				-30	3.85	-2.518	-0.0036	-2.5 to 2.5	Pass
				-20	3.85	-1.373	-0.0019	-2.5 to 2.5	Pass
				-10	3.85	-6.423	-0.0091	-2.5 to 2.5	Pass
				0	3.85	-1.402	-0.0020	-2.5 to 2.5	Pass
				10	3.85	-0.587	-0.0008	-2.5 to 2.5	Pass
				30	3.85	-0.973	-0.0014	-2.5 to 2.5	Pass
				40	3.85	-1.202	-0.0017	-2.5 to 2.5	Pass
	50	3.85	0.329	0.0005	-2.5 to 2.5	Pass			
	714.5	15	0	20	3.27	-1.373	-0.0019	-2.5 to 2.5	Pass
					3.85	-1.101	-0.0015	-2.5 to 2.5	Pass
				4.43	-1.674	-0.0023	-2.5 to 2.5	Pass	
				-30	3.85	-2.346	-0.0033	-2.5 to 2.5	Pass
				-20	3.85	-0.701	-0.0010	-2.5 to 2.5	Pass



				-10	3.85	-2.604	-0.0036	-2.5 to 2.5	Pass
				0	3.85	1.130	0.0016	-2.5 to 2.5	Pass
				10	3.85	-3.633	-0.0051	-2.5 to 2.5	Pass
				30	3.85	0.558	0.0008	-2.5 to 2.5	Pass
				40	3.85	-2.961	-0.0041	-2.5 to 2.5	Pass
				50	3.85	-1.616	-0.0023	-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	-2.961	-0.0042	-2.5 to 2.5	Pass
					3.85	-1.688	-0.0024	-2.5 to 2.5	Pass
					4.43	-0.043	-0.0001	-2.5 to 2.5	Pass
				-30	3.85	-1.516	-0.0022	-2.5 to 2.5	Pass
				-20	3.85	-2.189	-0.0031	-2.5 to 2.5	Pass
				-10	3.85	-0.987	-0.0014	-2.5 to 2.5	Pass
				0	3.85	-0.429	-0.0006	-2.5 to 2.5	Pass
				10	3.85	0.086	0.0001	-2.5 to 2.5	Pass
				30	3.85	-1.230	-0.0018	-2.5 to 2.5	Pass
				40	3.85	0.029	0.0000	-2.5 to 2.5	Pass
				50	3.85	-2.131	-0.0030	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-1.516	-0.0021	-2.5 to 2.5	Pass
					3.85	1.230	0.0017	-2.5 to 2.5	Pass
					4.43	-2.761	-0.0039	-2.5 to 2.5	Pass
				-30	3.85	-2.832	-0.0040	-2.5 to 2.5	Pass
				-20	3.85	-0.401	-0.0006	-2.5 to 2.5	Pass
				-10	3.85	-1.473	-0.0021	-2.5 to 2.5	Pass
				0	3.85	-4.663	-0.0066	-2.5 to 2.5	Pass
				10	3.85	-3.018	-0.0043	-2.5 to 2.5	Pass
				30	3.85	0.315	0.0004	-2.5 to 2.5	Pass
				40	3.85	-0.644	-0.0009	-2.5 to 2.5	Pass
				50	3.85	-0.472	-0.0007	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-0.014	0.0000	-2.5 to 2.5	Pass
					3.85	1.574	0.0022	-2.5 to 2.5	Pass
					4.43	-0.629	-0.0009	-2.5 to 2.5	Pass
				-30	3.85	1.259	0.0018	-2.5 to 2.5	Pass
				-20	3.85	0.100	0.0001	-2.5 to 2.5	Pass
				-10	3.85	-0.815	-0.0011	-2.5 to 2.5	Pass
				0	3.85	-1.001	-0.0014	-2.5 to 2.5	Pass
				10	3.85	-1.030	-0.0014	-2.5 to 2.5	Pass
				30	3.85	3.304	0.0046	-2.5 to 2.5	Pass
				40	3.85	0.987	0.0014	-2.5 to 2.5	Pass
				50	3.85	-0.515	-0.0007	-2.5 to 2.5	Pass
16QAM	701.5	25	0	20	3.27	1.745	0.0025	-2.5 to 2.5	Pass
					3.85	0.529	0.0008	-2.5 to 2.5	Pass
					4.43	0.372	0.0005	-2.5 to 2.5	Pass
				-30	3.85	0.143	0.0002	-2.5 to 2.5	Pass
				-20	3.85	1.402	0.0020	-2.5 to 2.5	Pass
				-10	3.85	0.300	0.0004	-2.5 to 2.5	Pass
				0	3.85	0.572	0.0008	-2.5 to 2.5	Pass
				10	3.85	1.416	0.0020	-2.5 to 2.5	Pass
				30	3.85	-0.243	-0.0003	-2.5 to 2.5	Pass
				40	3.85	0.930	0.0013	-2.5 to 2.5	Pass
				50	3.85	4.005	0.0057	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	0.129	0.0002	-2.5 to 2.5	Pass
					3.85	0.901	0.0013	-2.5 to 2.5	Pass



					4.43	1.273	0.0018	-2.5 to 2.5	Pass
				-30	3.85	-0.901	-0.0013	-2.5 to 2.5	Pass
				-20	3.85	-2.632	-0.0037	-2.5 to 2.5	Pass
				-10	3.85	-2.890	-0.0041	-2.5 to 2.5	Pass
				0	3.85	-1.216	-0.0017	-2.5 to 2.5	Pass
				10	3.85	-1.917	-0.0027	-2.5 to 2.5	Pass
				30	3.85	1.445	0.0020	-2.5 to 2.5	Pass
				40	3.85	-3.963	-0.0056	-2.5 to 2.5	Pass
				50	3.85	-1.230	-0.0017	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	1.616	0.0023	-2.5 to 2.5	Pass
					3.85	-2.675	-0.0037	-2.5 to 2.5	Pass
					4.43	-1.516	-0.0021	-2.5 to 2.5	Pass
				-30	3.85	-1.717	-0.0024	-2.5 to 2.5	Pass
				-20	3.85	-1.659	-0.0023	-2.5 to 2.5	Pass
				-10	3.85	0.386	0.0005	-2.5 to 2.5	Pass
				0	3.85	-0.544	-0.0008	-2.5 to 2.5	Pass
				10	3.85	0.644	0.0009	-2.5 to 2.5	Pass
				30	3.85	0.172	0.0002	-2.5 to 2.5	Pass
				40	3.85	3.076	0.0043	-2.5 to 2.5	Pass
				50	3.85	1.116	0.0016	-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	-0.043	-0.0001	-2.5 to 2.5	Pass
					3.85	-0.501	-0.0007	-2.5 to 2.5	Pass
					4.43	1.059	0.0015	-2.5 to 2.5	Pass
				-30	3.85	-0.300	-0.0004	-2.5 to 2.5	Pass
				-20	3.85	0.272	0.0004	-2.5 to 2.5	Pass
				-10	3.85	-0.372	-0.0005	-2.5 to 2.5	Pass
				0	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
				10	3.85	-0.615	-0.0009	-2.5 to 2.5	Pass
				30	3.85	0.329	0.0005	-2.5 to 2.5	Pass
				40	3.85	-0.172	-0.0002	-2.5 to 2.5	Pass
				50	3.85	0.758	0.0011	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-0.615	-0.0009	-2.5 to 2.5	Pass
					3.85	-3.262	-0.0046	-2.5 to 2.5	Pass
					4.43	-1.445	-0.0020	-2.5 to 2.5	Pass
				-30	3.85	-2.646	-0.0037	-2.5 to 2.5	Pass
				-20	3.85	-1.431	-0.0020	-2.5 to 2.5	Pass
				-10	3.85	0.014	0.0000	-2.5 to 2.5	Pass
				0	3.85	-1.988	-0.0028	-2.5 to 2.5	Pass
				10	3.85	0.715	0.0010	-2.5 to 2.5	Pass
				30	3.85	-2.532	-0.0036	-2.5 to 2.5	Pass
				40	3.85	0.257	0.0004	-2.5 to 2.5	Pass
				50	3.85	-2.804	-0.0040	-2.5 to 2.5	Pass
	711	50	0	20	3.27	0.472	0.0007	-2.5 to 2.5	Pass
					3.85	-1.001	-0.0014	-2.5 to 2.5	Pass
					4.43	0.529	0.0007	-2.5 to 2.5	Pass
				-30	3.85	-1.874	-0.0026	-2.5 to 2.5	Pass
				-20	3.85	0.129	0.0002	-2.5 to 2.5	Pass
				-10	3.85	2.890	0.0041	-2.5 to 2.5	Pass
				0	3.85	-0.114	-0.0002	-2.5 to 2.5	Pass
				10	3.85	-1.616	-0.0023	-2.5 to 2.5	Pass
				30	3.85	-0.944	-0.0013	-2.5 to 2.5	Pass
				40	3.85	1.416	0.0020	-2.5 to 2.5	Pass

				50	3.85	0.415	0.0006	-2.5 to 2.5	Pass
16QAM	704	27	0	20	3.27	-1.116	-0.0016	-2.5 to 2.5	Pass
					3.85	1.388	0.0020	-2.5 to 2.5	Pass
					4.43	0.958	0.0014	-2.5 to 2.5	Pass
					-30	3.85	1.130	0.0016	-2.5 to 2.5
				-20	3.85	0.300	0.0004	-2.5 to 2.5	Pass
				-10	3.85	0.272	0.0004	-2.5 to 2.5	Pass
				0	3.85	-0.315	-0.0004	-2.5 to 2.5	Pass
				10	3.85	2.575	0.0037	-2.5 to 2.5	Pass
				30	3.85	2.661	0.0038	-2.5 to 2.5	Pass
				40	3.85	0.787	0.0011	-2.5 to 2.5	Pass
	50	3.85	0.415	0.0006	-2.5 to 2.5	Pass			
	707.5	27	0	20	3.27	-2.074	-0.0029	-2.5 to 2.5	Pass
					3.85	-1.817	-0.0026	-2.5 to 2.5	Pass
					4.43	0.329	0.0005	-2.5 to 2.5	Pass
				-30	3.85	0.172	0.0002	-2.5 to 2.5	Pass
				-20	3.85	-3.805	-0.0054	-2.5 to 2.5	Pass
				-10	3.85	-1.974	-0.0028	-2.5 to 2.5	Pass
				0	3.85	-1.917	-0.0027	-2.5 to 2.5	Pass
				10	3.85	0.000	0.0000	-2.5 to 2.5	Pass
				30	3.85	-1.273	-0.0018	-2.5 to 2.5	Pass
				40	3.85	-1.445	-0.0020	-2.5 to 2.5	Pass
	50	3.85	-0.887	-0.0013	-2.5 to 2.5	Pass			
	711	27	23	20	3.27	-0.243	-0.0003	-2.5 to 2.5	Pass
					3.85	-1.187	-0.0017	-2.5 to 2.5	Pass
					4.43	0.100	0.0001	-2.5 to 2.5	Pass
				-30	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	0.701	0.0010	-2.5 to 2.5	Pass
				-10	3.85	1.044	0.0015	-2.5 to 2.5	Pass
				0	3.85	-0.401	-0.0006	-2.5 to 2.5	Pass
				10	3.85	-2.432	-0.0034	-2.5 to 2.5	Pass
				30	3.85	-0.772	-0.0011	-2.5 to 2.5	Pass
				40	3.85	-0.200	-0.0003	-2.5 to 2.5	Pass
	50	3.85	0.572	0.0008	-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 / NTN						
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**

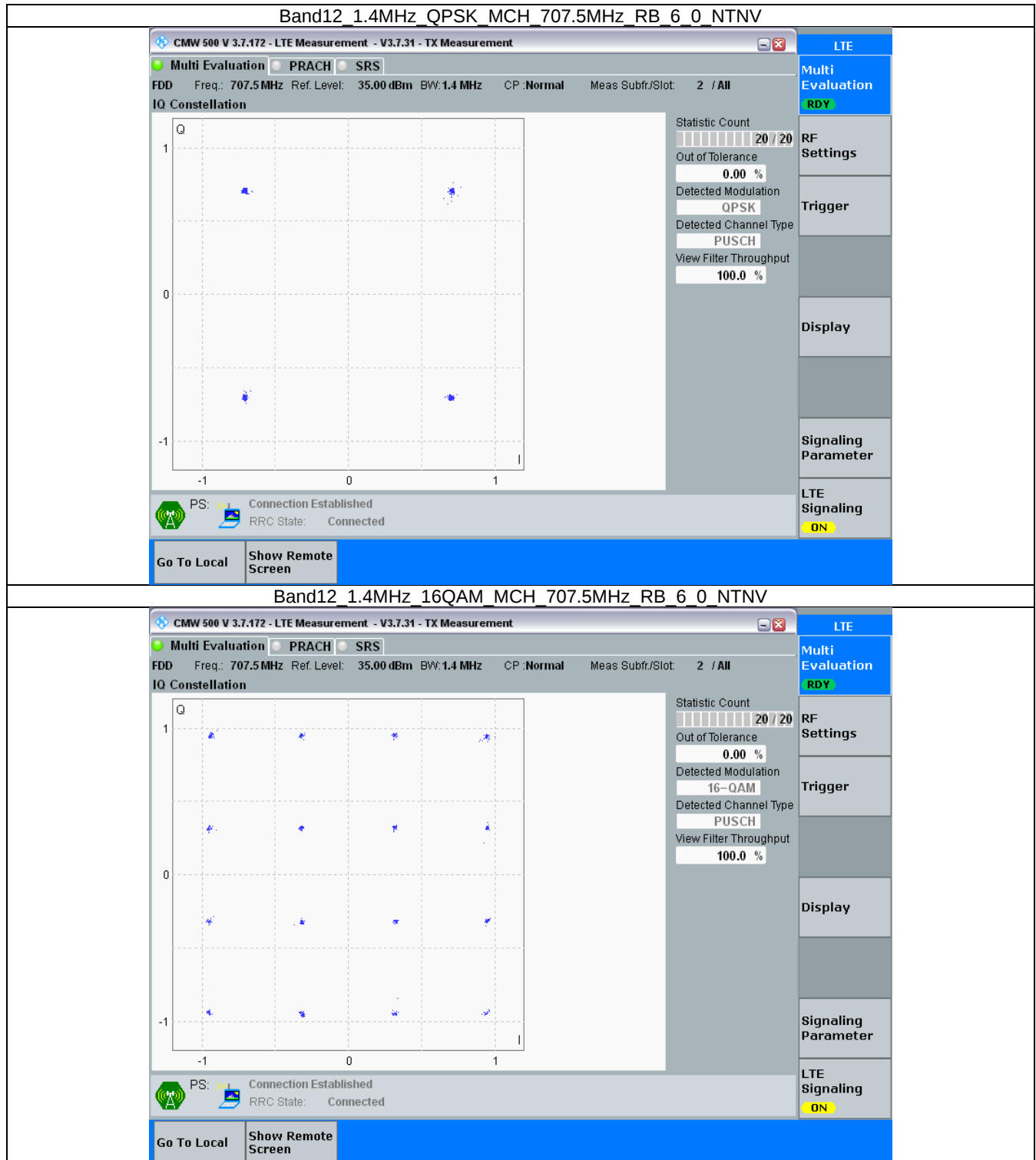
Band: 12 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	25	0	Refer To Test Graph		Pass
16QAM	707.5	25	0	Refer To Test Graph		Pass

3.1.4 B12_10MHz

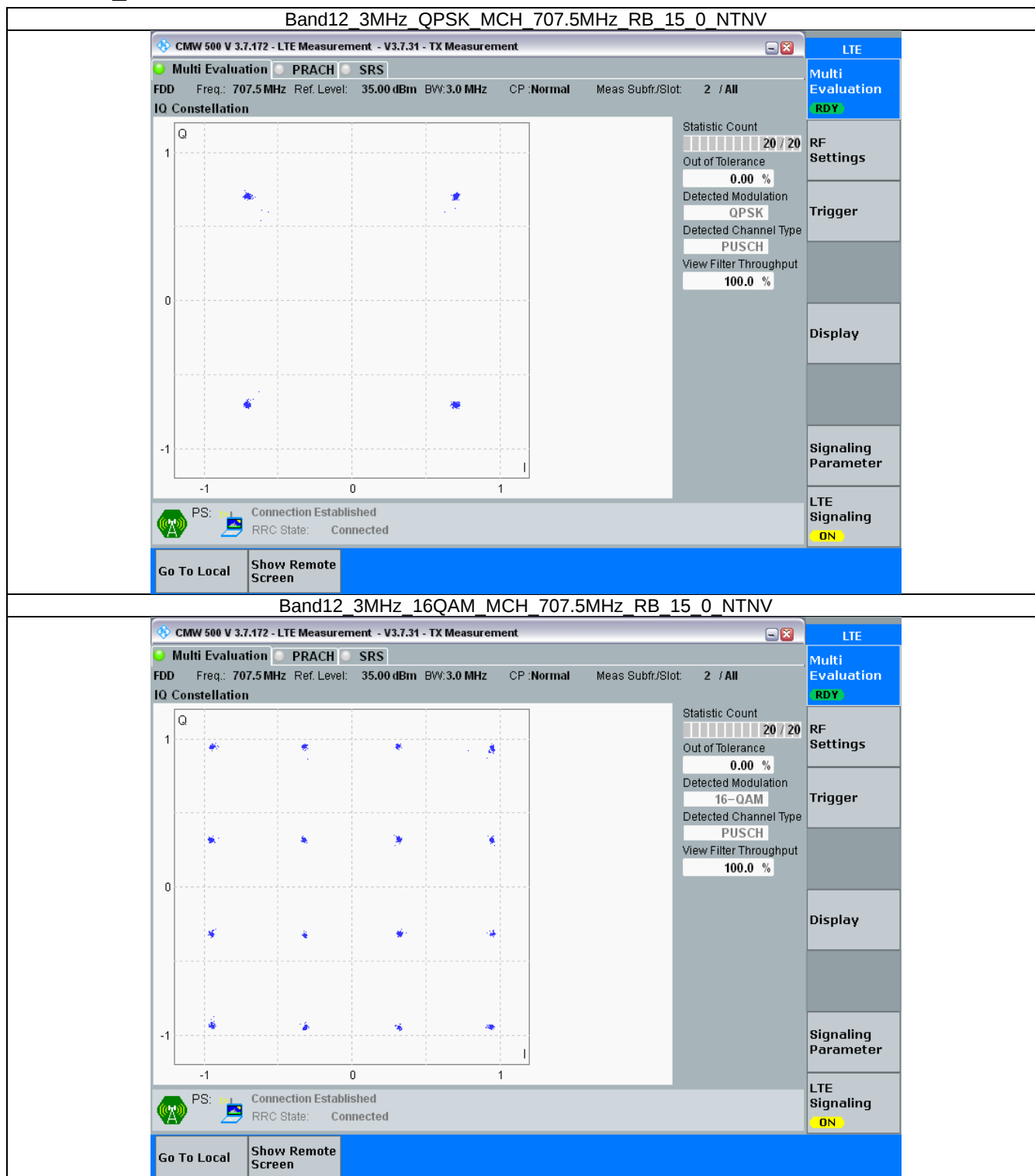
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	Refer To Test Graph		Pass
16QAM	707.5	27	0	Refer To Test Graph		Pass

3.2 Test Graph

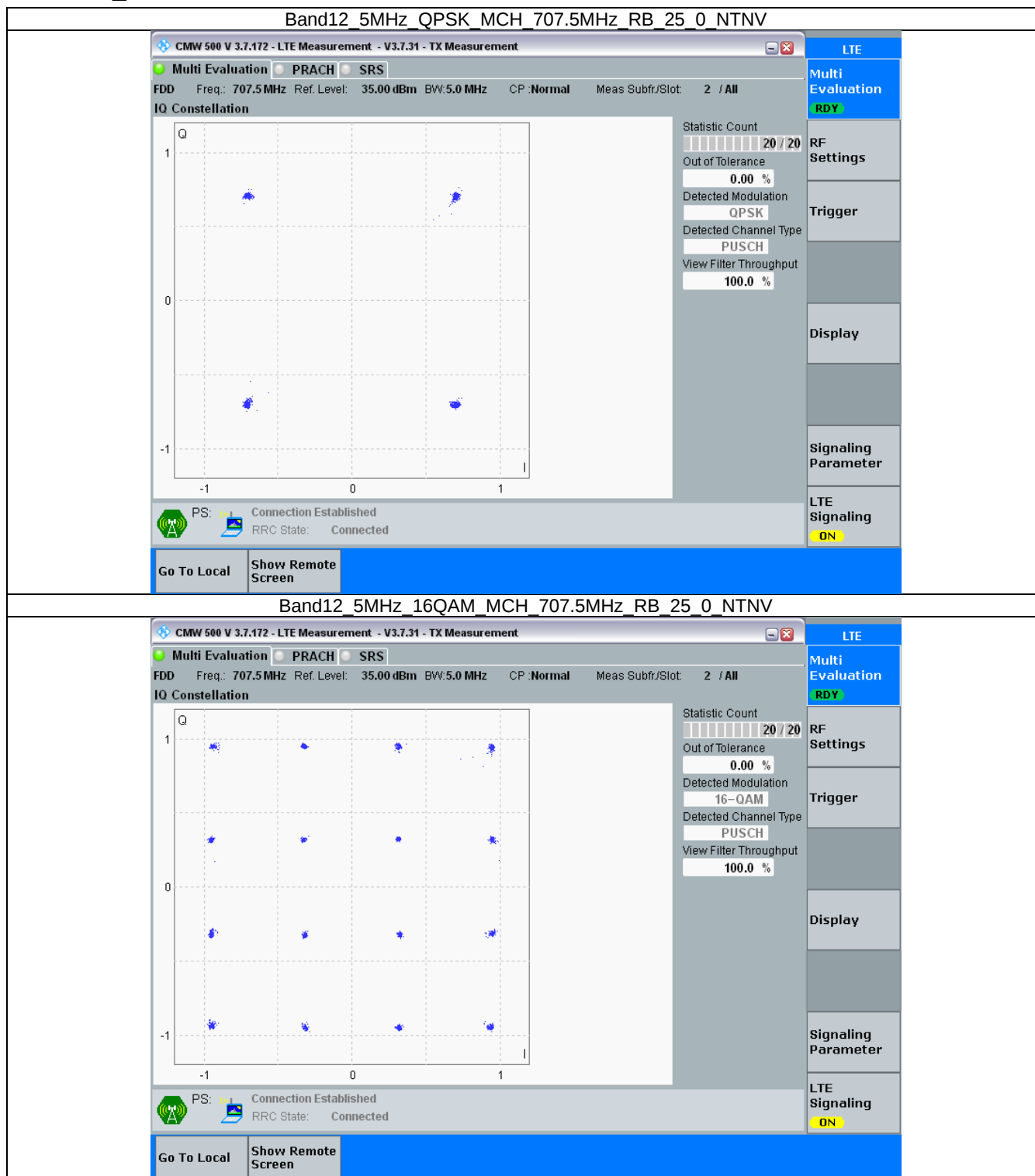
3.2.1 B12_1.4MHz



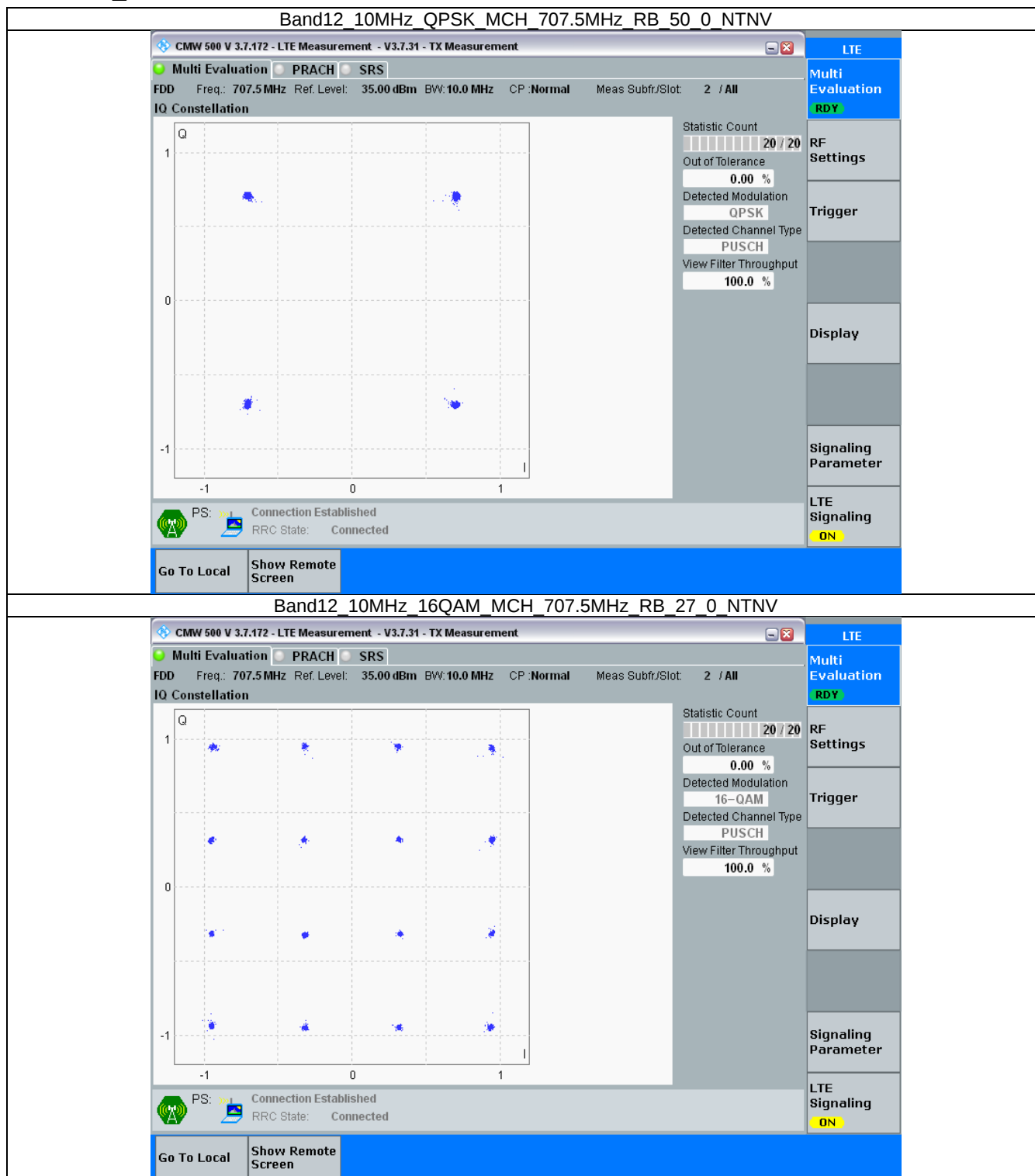
3.2.2 B12_3MHz



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	1.125	/	Pass
		707.5	6	0	1.111	/	Pass
		715.3	6	0	1.103	/	Pass
	16QAM	699.7	6	0	1.121	/	Pass
		707.5	6	0	1.106	/	Pass
		715.3	6	0	1.103	/	Pass
3	QPSK	700.5	15	0	2.730	/	Pass
		707.5	15	0	2.731	/	Pass
		714.5	15	0	2.731	/	Pass
	16QAM	700.5	15	0	2.727	/	Pass
		707.5	15	0	2.717	/	Pass
		714.5	15	0	2.734	/	Pass
5	QPSK	701.5	25	0	4.559	/	Pass
		707.5	25	0	4.542	/	Pass
		713.5	25	0	4.527	/	Pass
	16QAM	701.5	25	0	4.535	/	Pass
		707.5	25	0	4.562	/	Pass
		713.5	25	0	4.555	/	Pass
10	QPSK	704	50	0	9.048	/	Pass
		707.5	50	0	9.053	/	Pass
		711	50	0	9.028	/	Pass
	16QAM	704	27	0	5.086	/	Pass
		707.5	27	0	5.052	/	Pass
		711	27	23	5.108	/	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	1.321	/	Pass
		707.5	6	0	1.344	/	Pass
		715.3	6	0	1.335	/	Pass
	16QAM	699.7	6	0	1.329	/	Pass
		707.5	6	0	1.337	/	Pass
		715.3	6	0	1.336	/	Pass
3	QPSK	700.5	15	0	3.022	/	Pass
		707.5	15	0	3.007	/	Pass
		714.5	15	0	3.018	/	Pass
	16QAM	700.5	15	0	3.038	/	Pass
		707.5	15	0	3.038	/	Pass
		714.5	15	0	3.002	/	Pass
5	QPSK	701.5	25	0	5.072	/	Pass
		707.5	25	0	5.065	/	Pass
		713.5	25	0	5.035	/	Pass



4

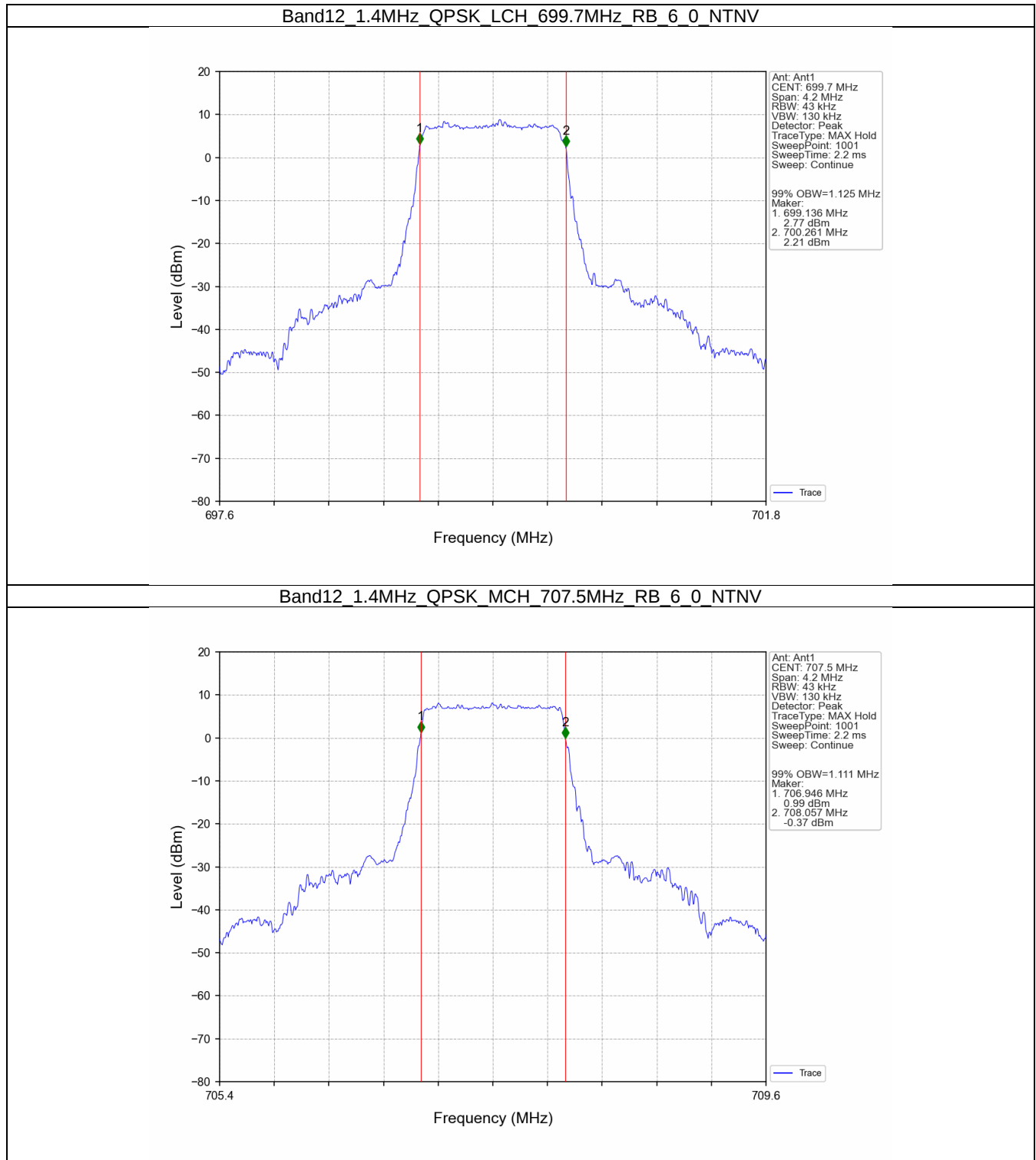
	16QAM	701.5	25	0	5.010	/	Pass
		707.5	25	0	5.056	/	Pass
		713.5	25	0	4.991	/	Pass
10	QPSK	704	50	0	9.989	/	Pass
		707.5	50	0	9.988	/	Pass
		711	50	0	10.038	/	Pass
	16QAM	704	27	0	6.109	/	Pass
		707.5	27	0	6.148	/	Pass
		711	27	23	6.116	/	Pass



4

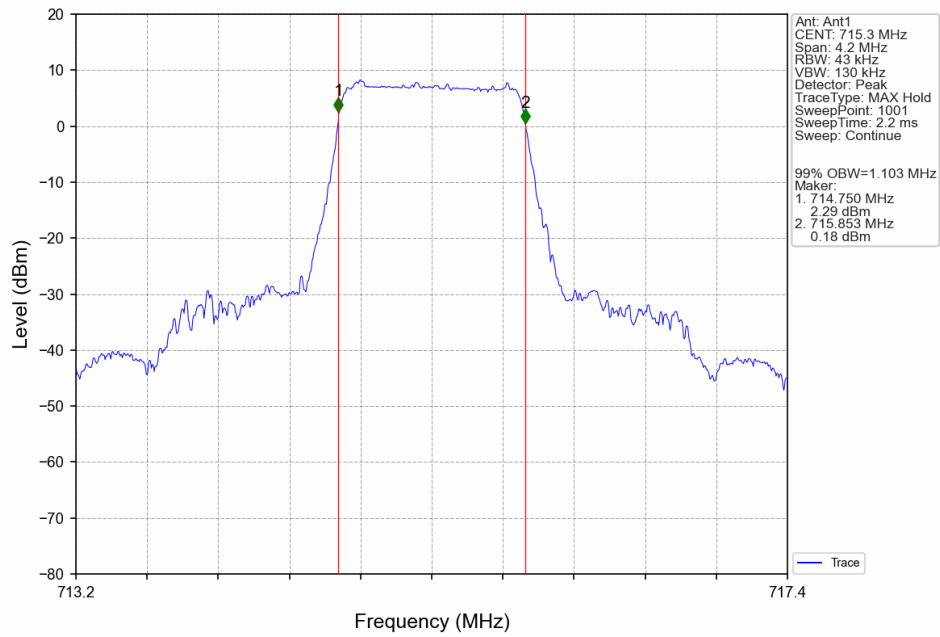
4.2 Test Graph

4.2.1 Band12_OBW

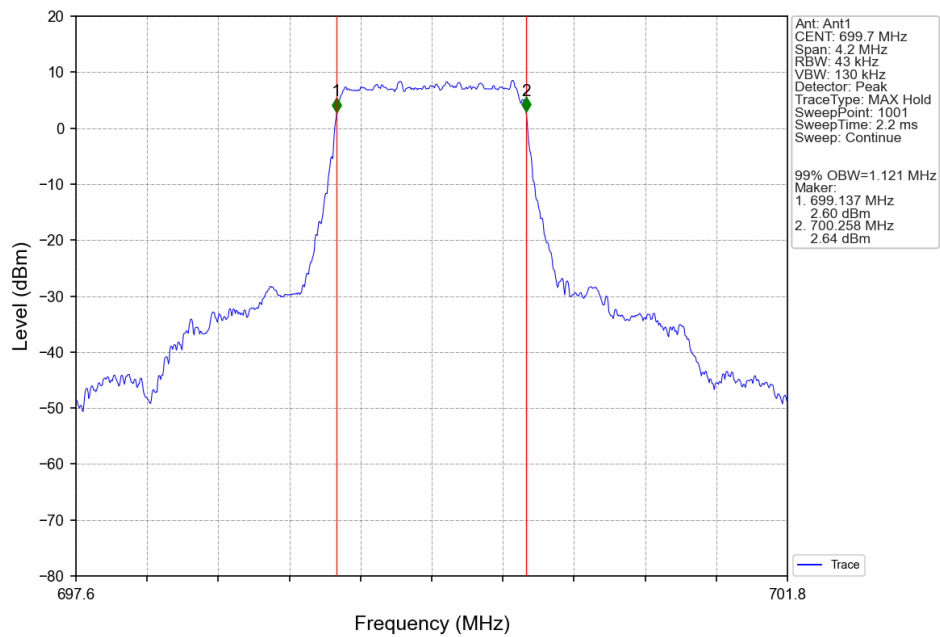




Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV

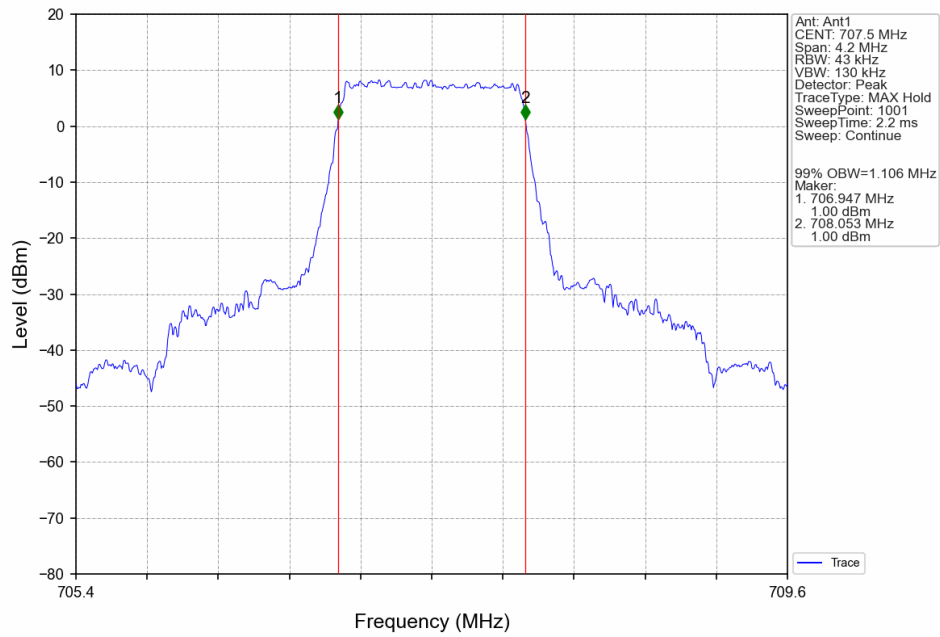


Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV

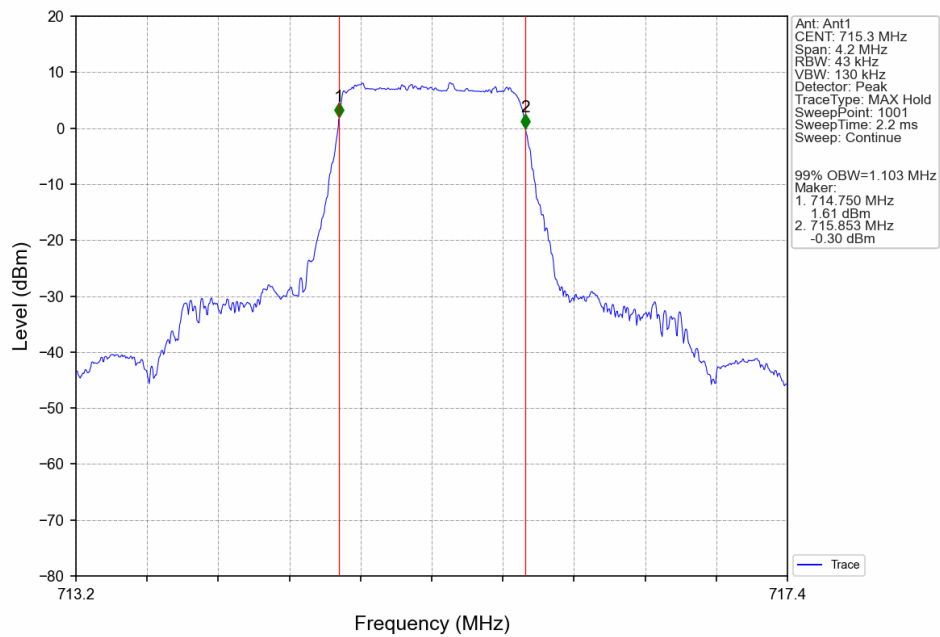




Band12 1.4MHz 16QAM MCH 707.5MHz RB 6 0 NTNV

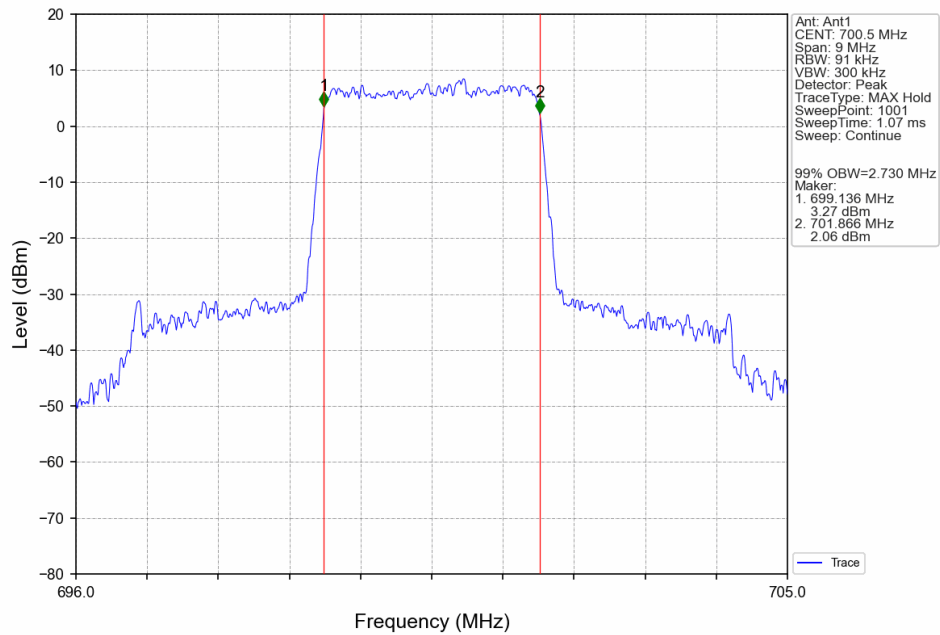


Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV

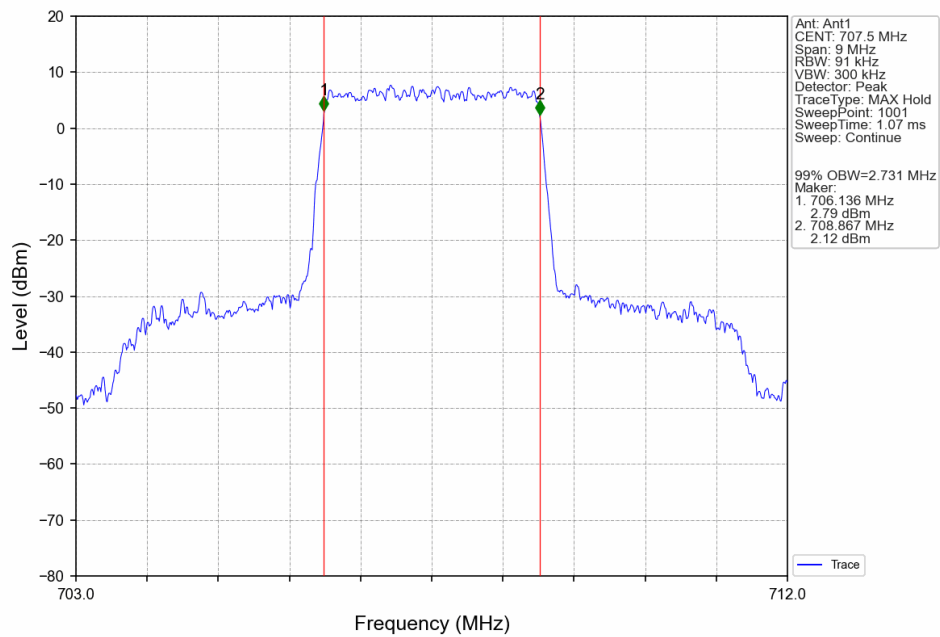




Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV

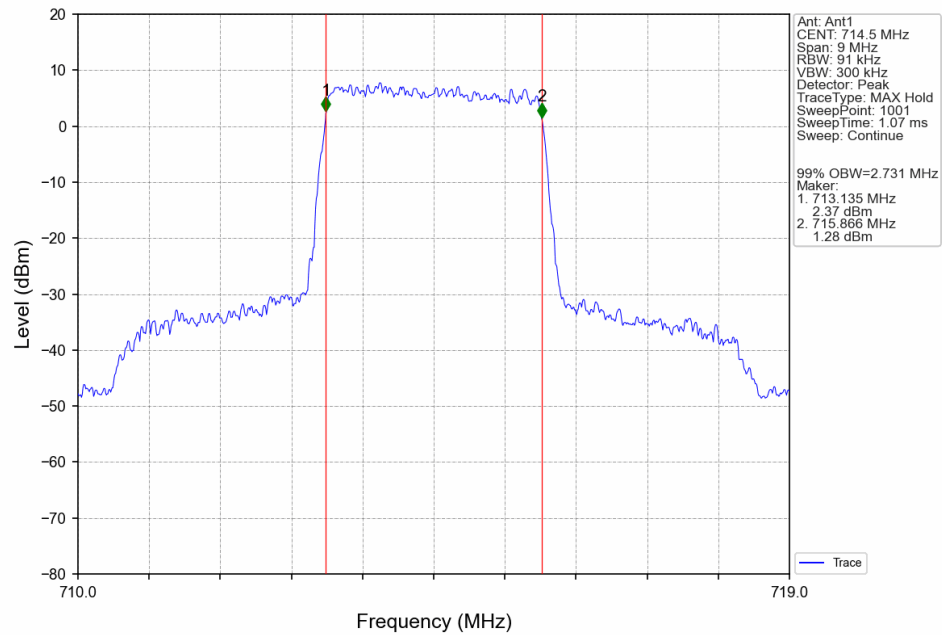


Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV

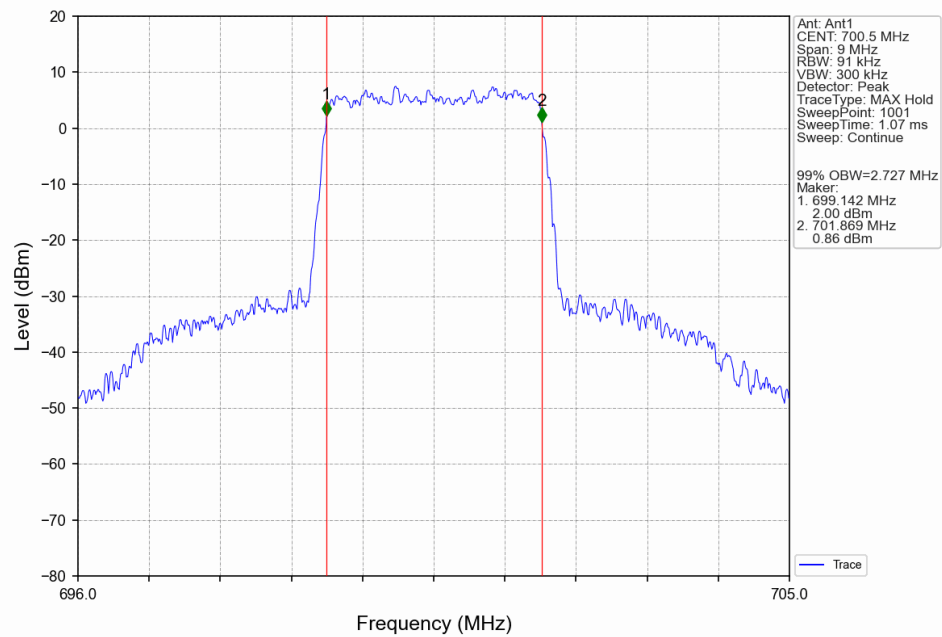




Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV

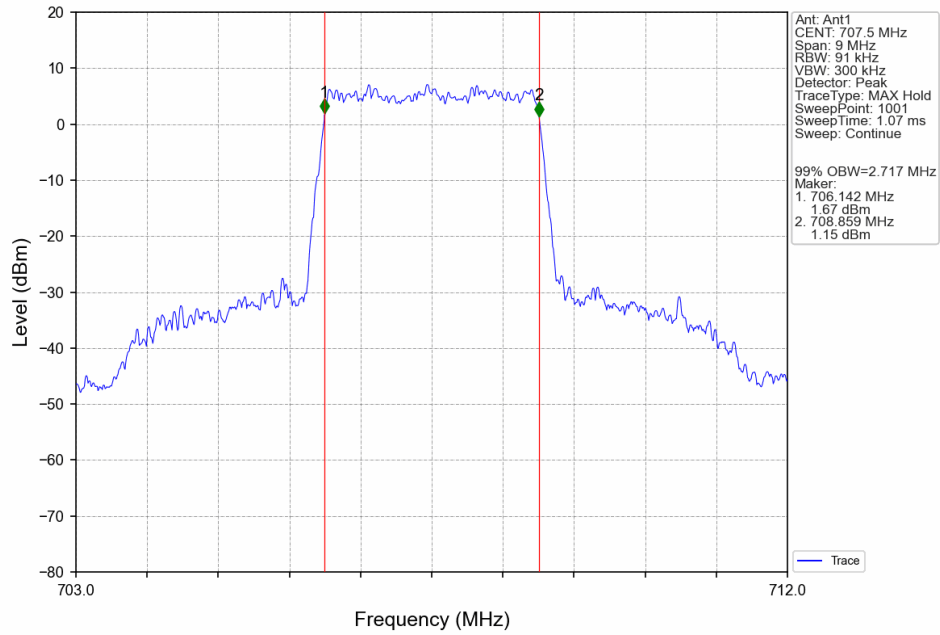


Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV

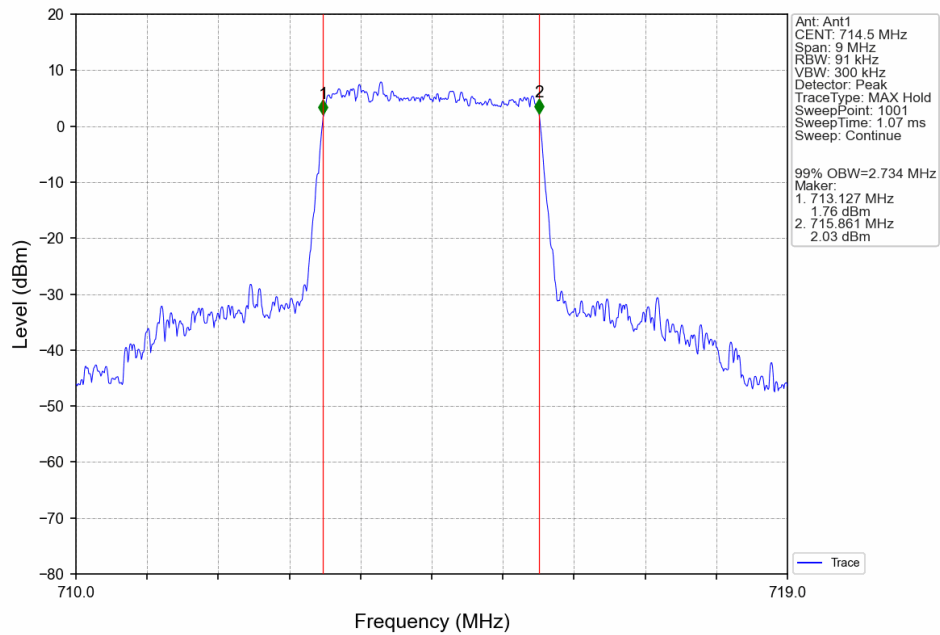




Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV

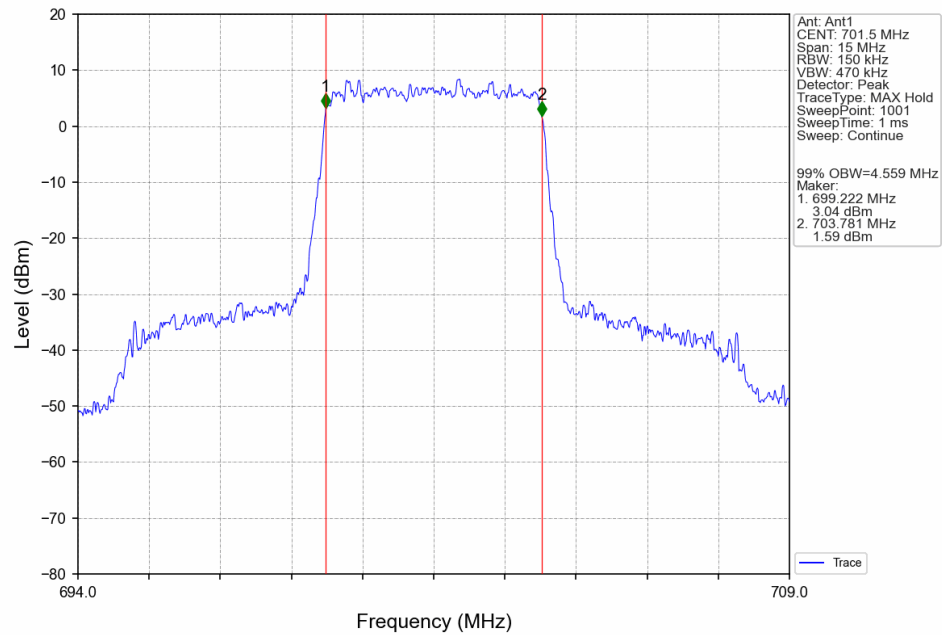


Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV

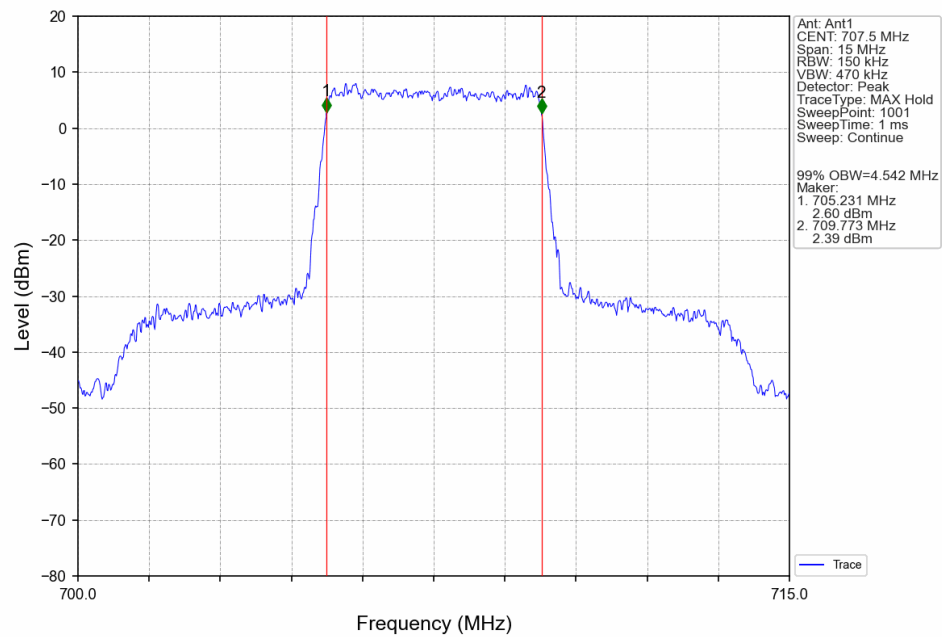




Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV

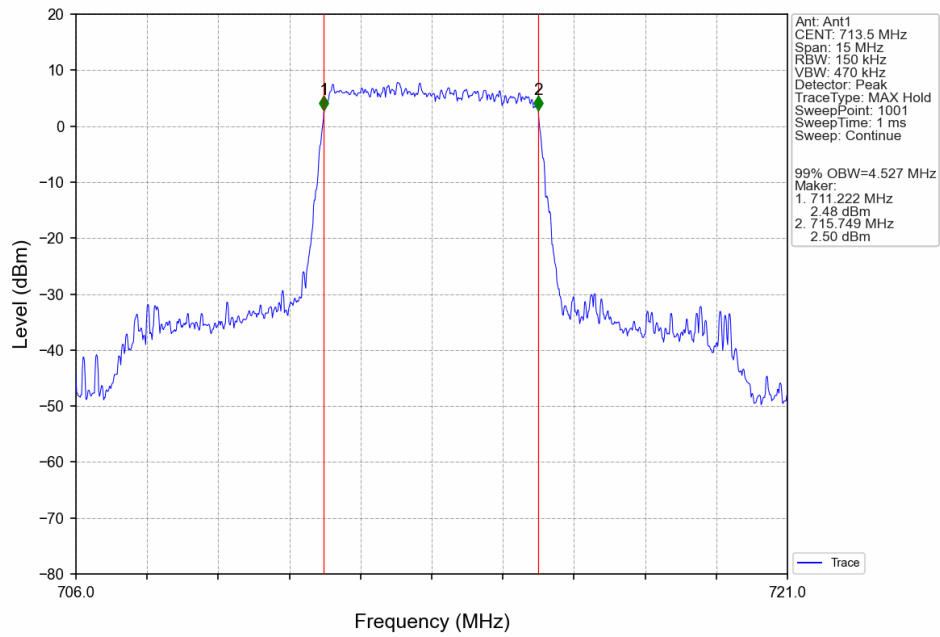


Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV

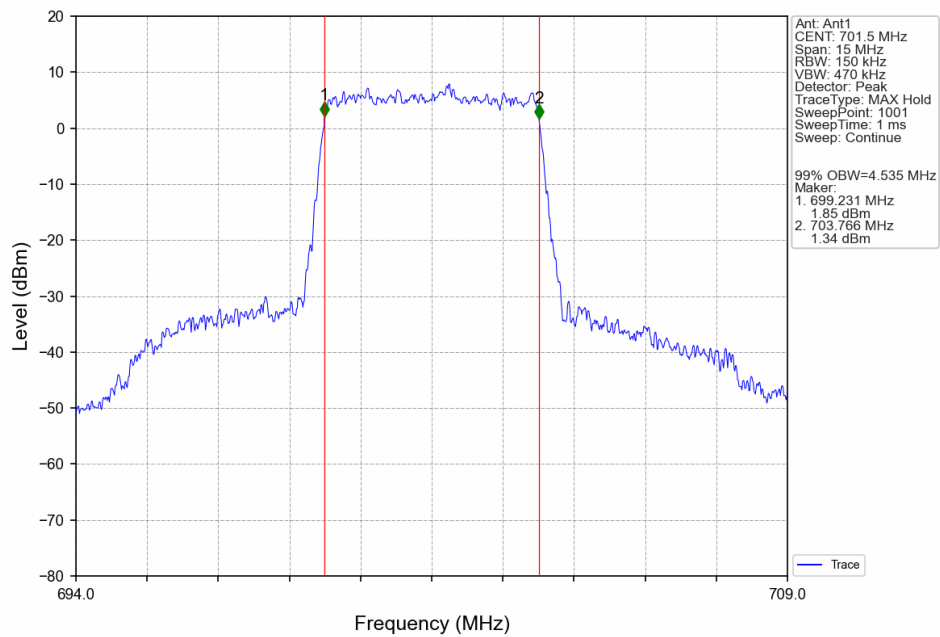




Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV

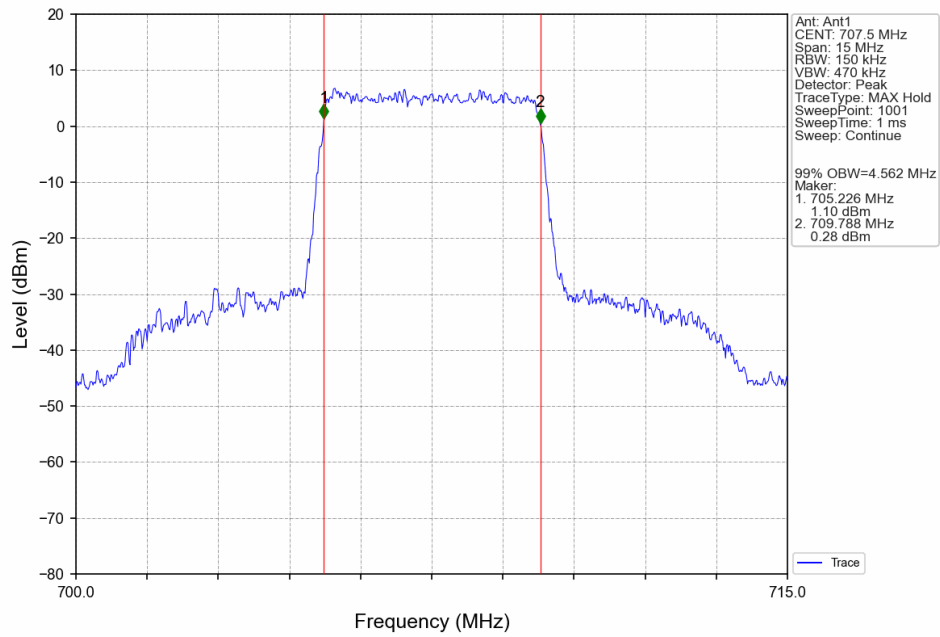


Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV

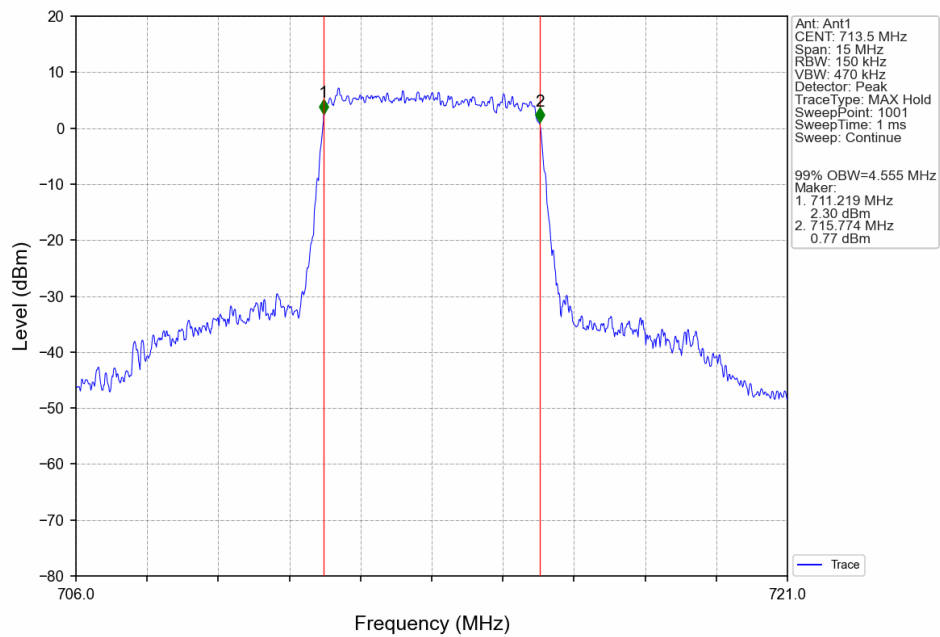




Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV

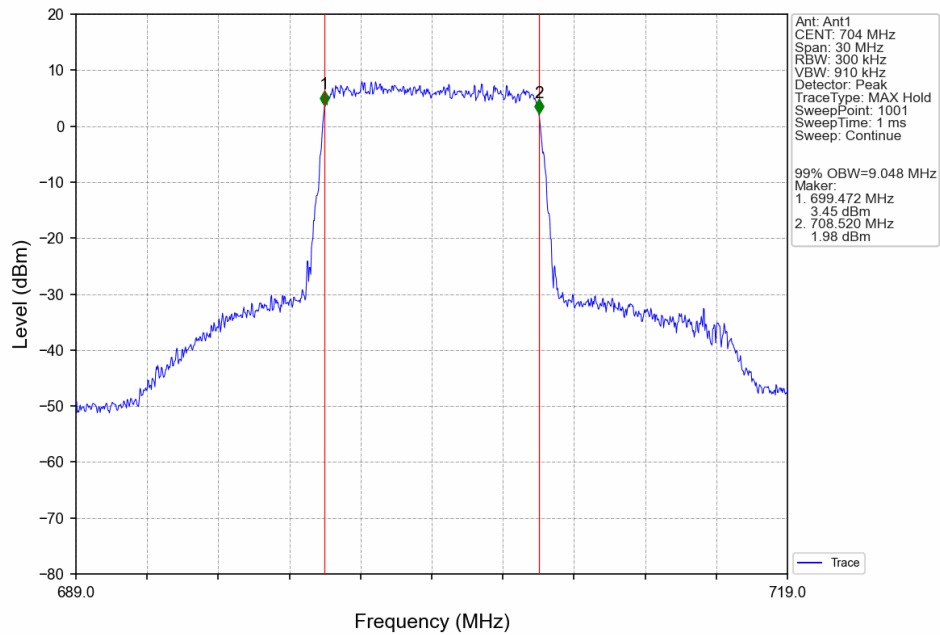


Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

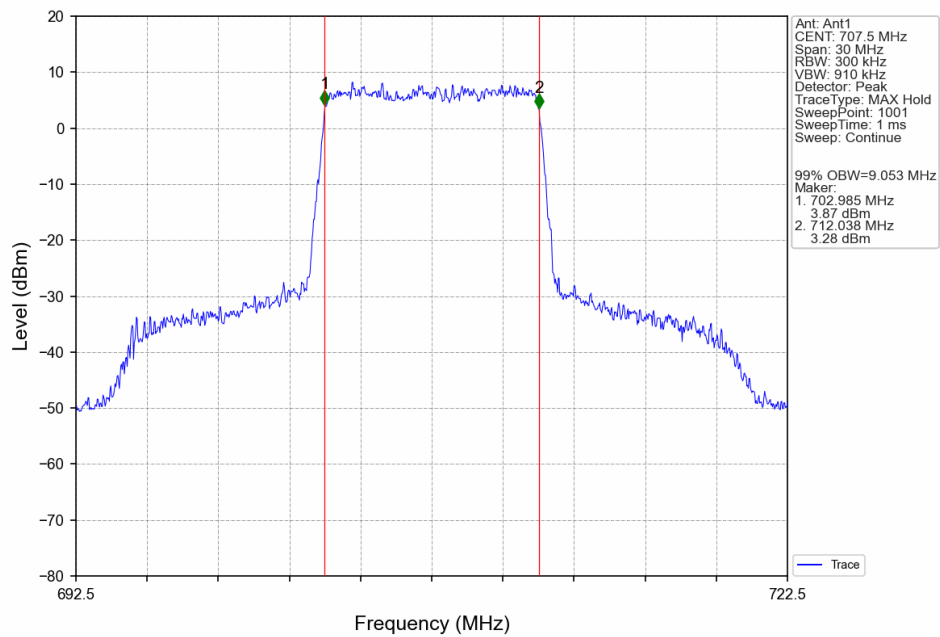




Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV

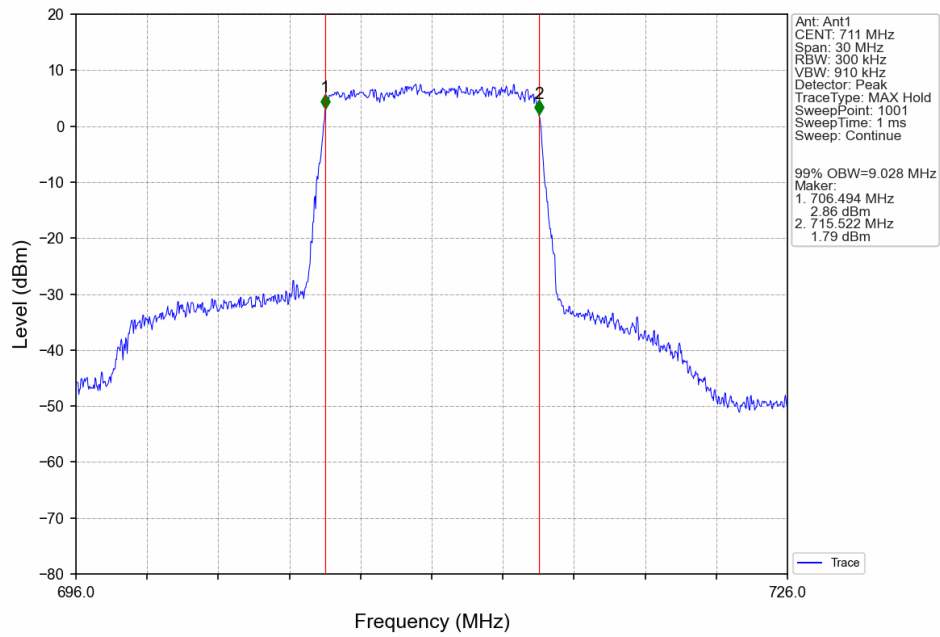


Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV

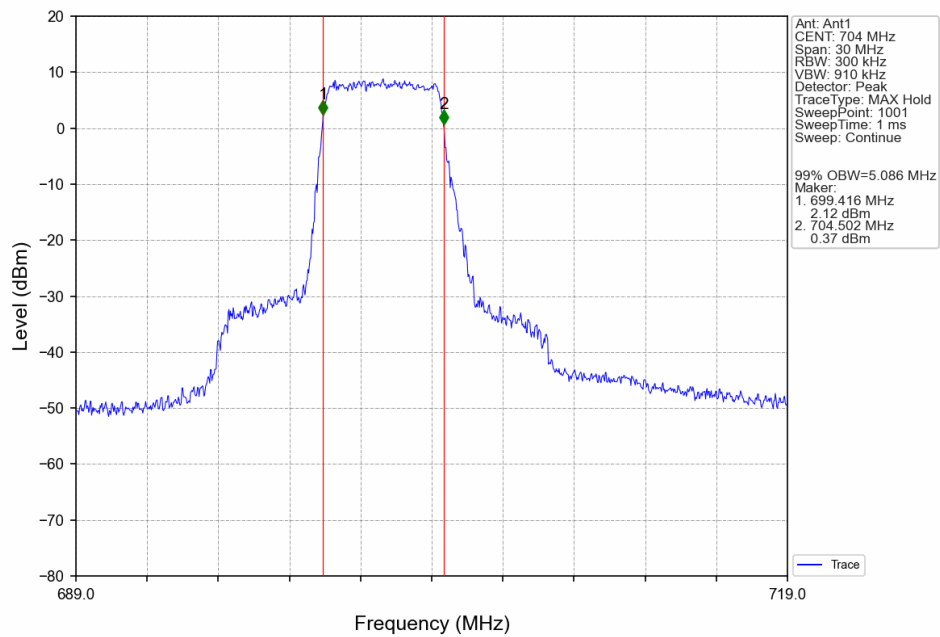




Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV

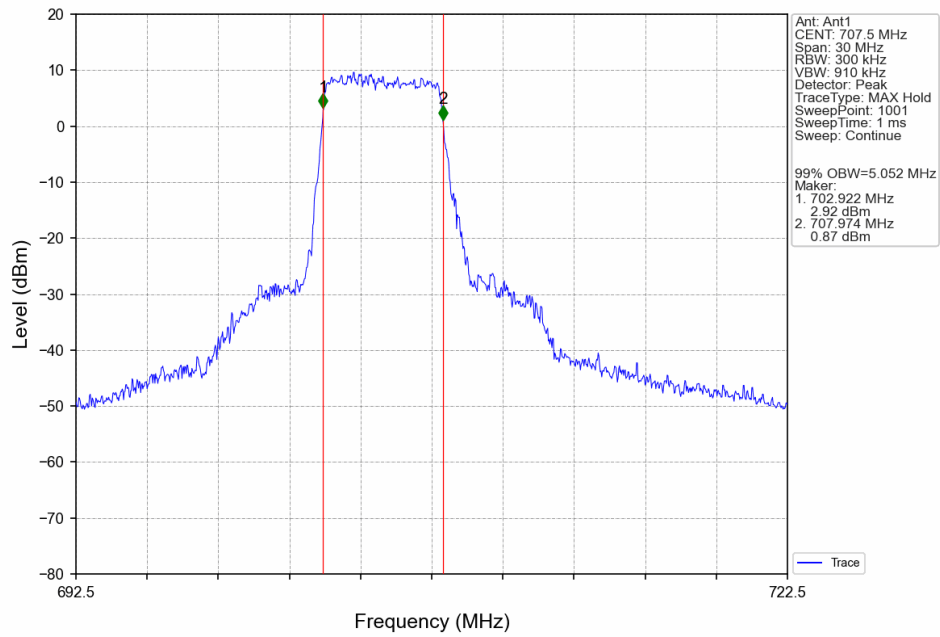


Band12_10MHz_16QAM_LCH_704MHz_RB_27_0_NTNV

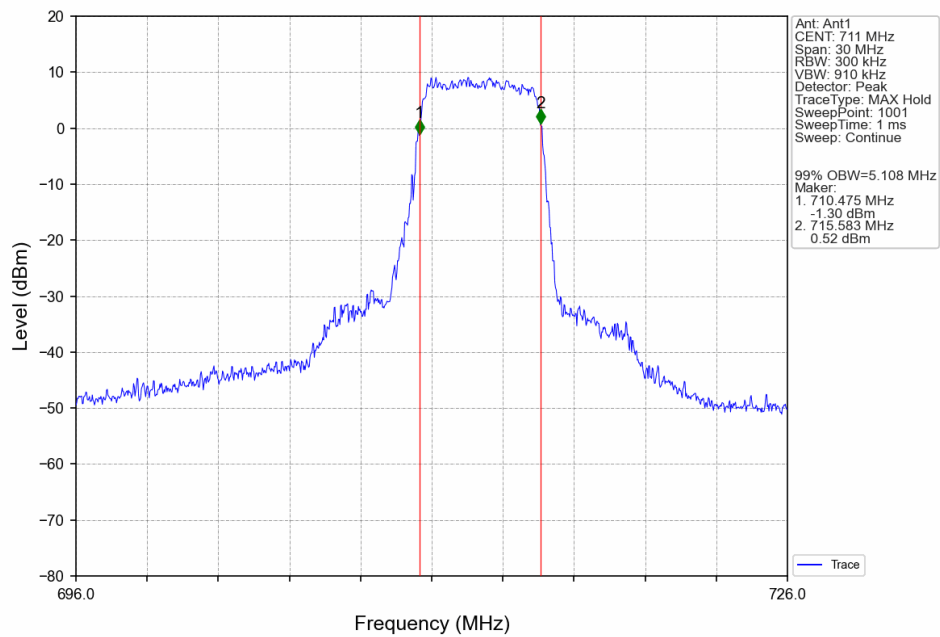




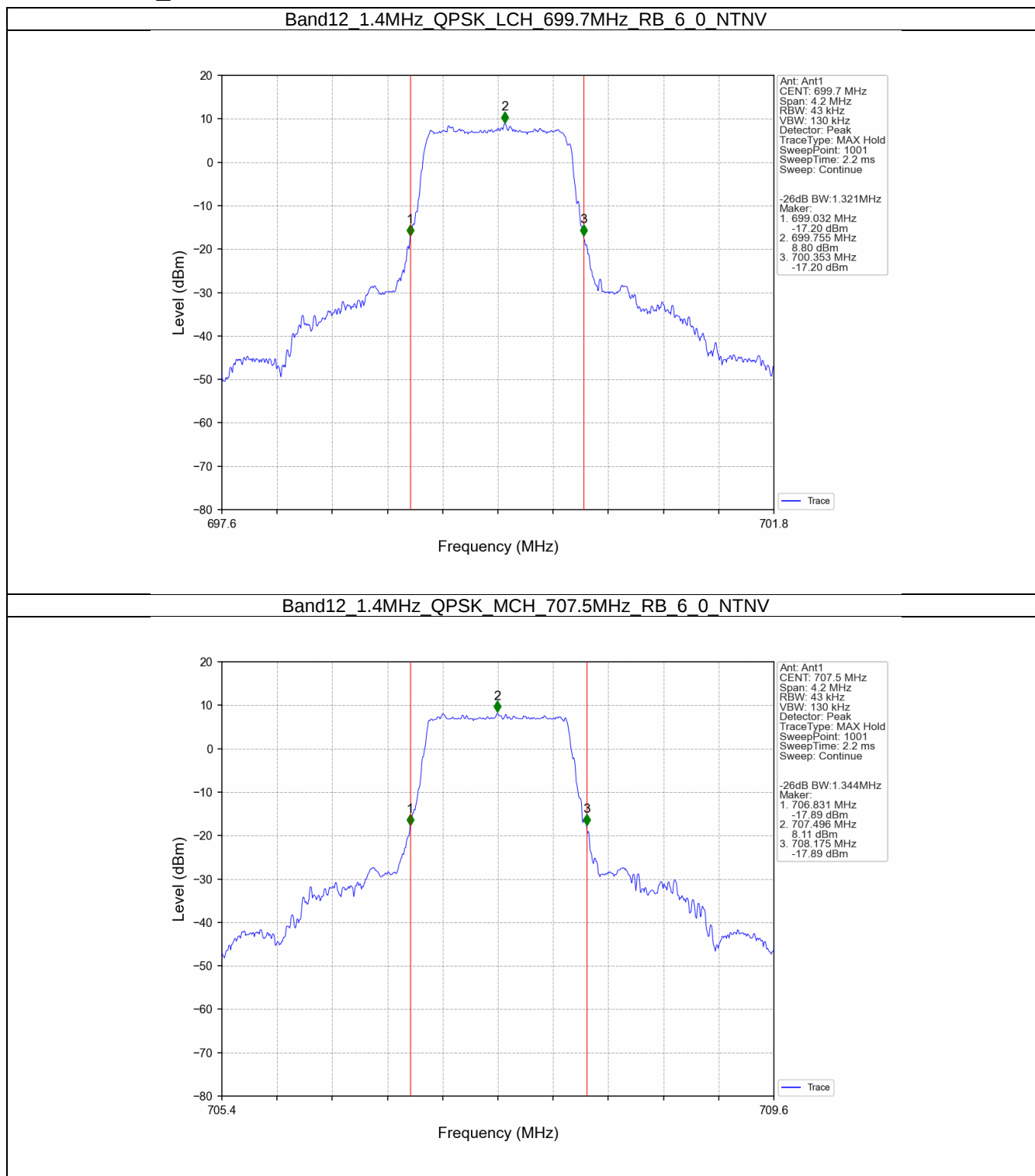
Band12_10MHz_16QAM_MCH_707.5MHz_RB_27_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_27_23_NTNV

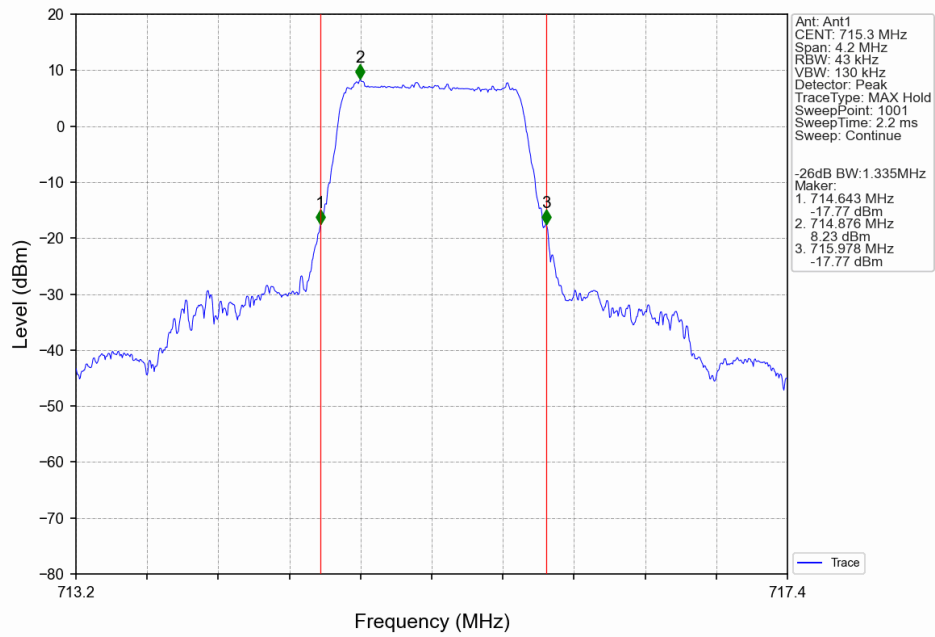


4.2.2 Band12_XDB

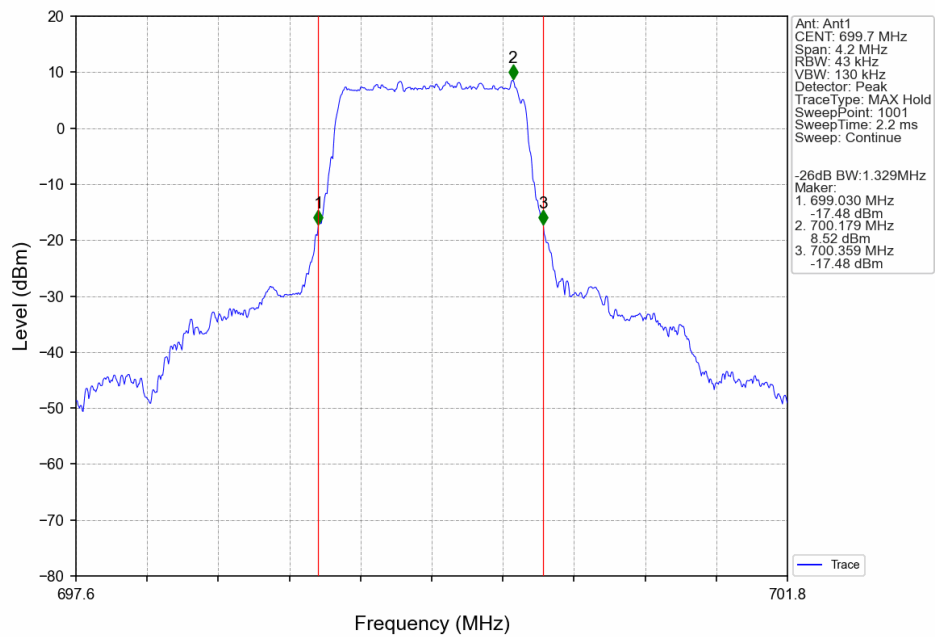




Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV

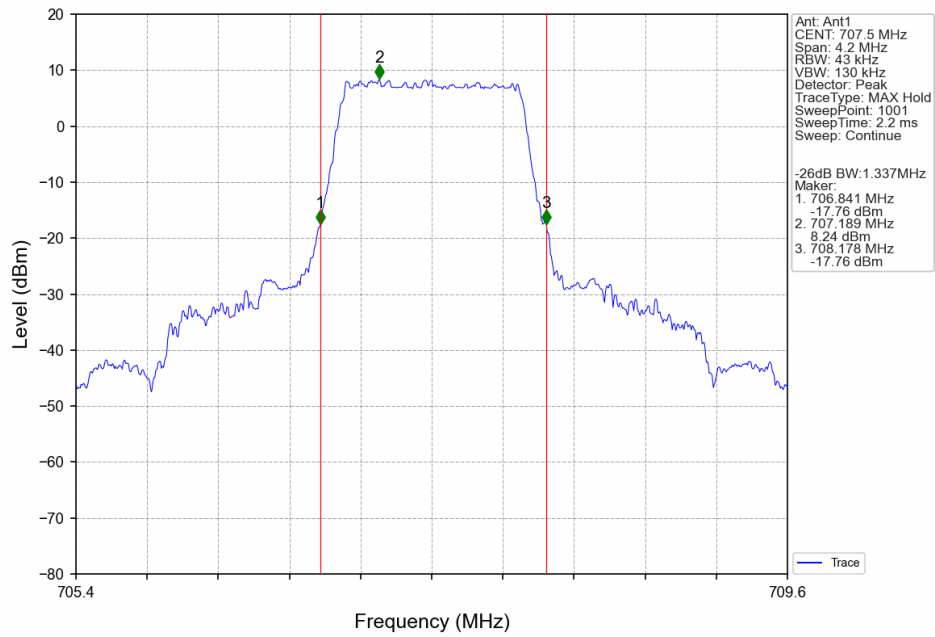


Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV

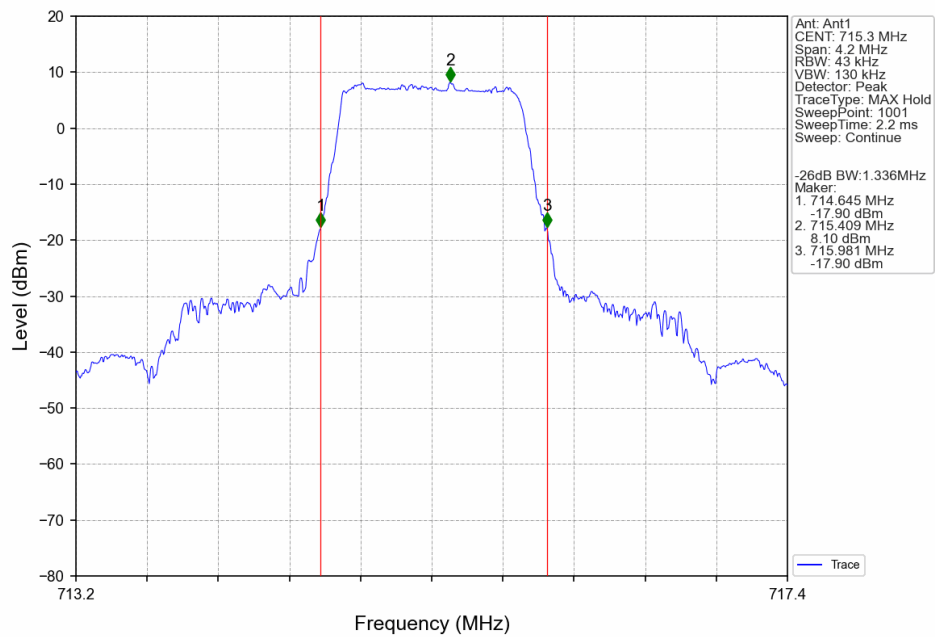




Band12 1.4MHz 16QAM MCH 707.5MHz RB 6 0 NTNV

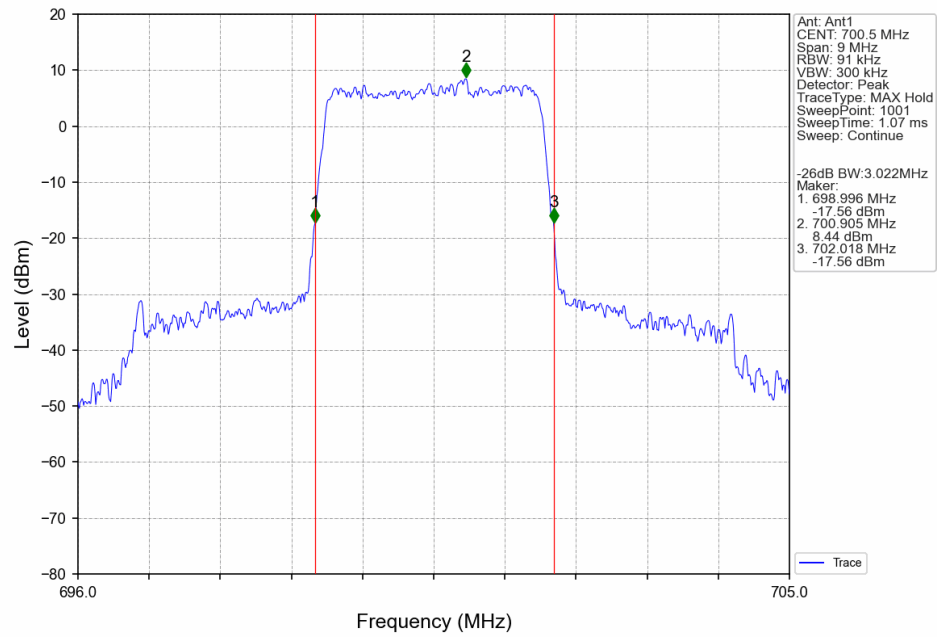


Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV

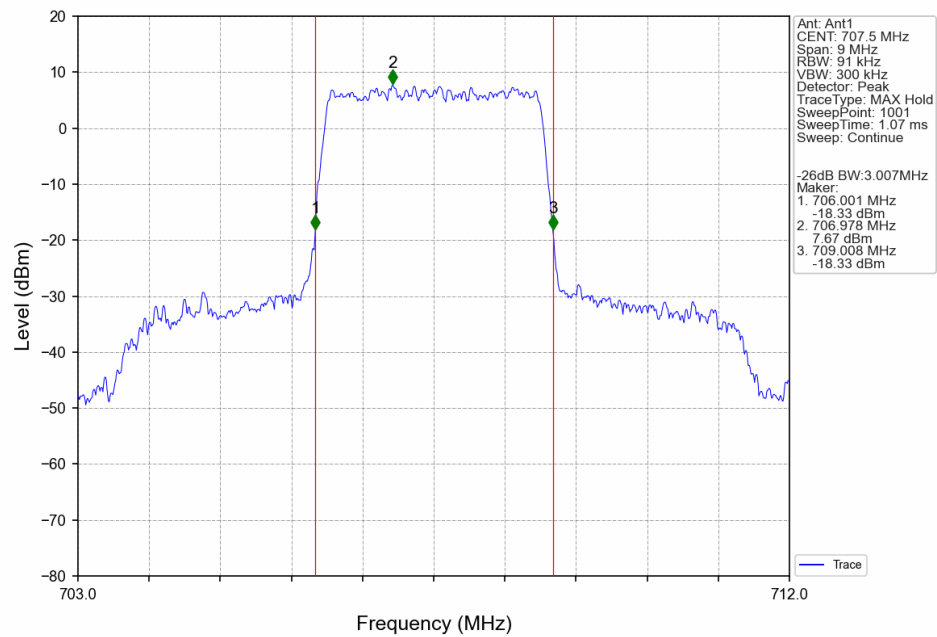




Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV

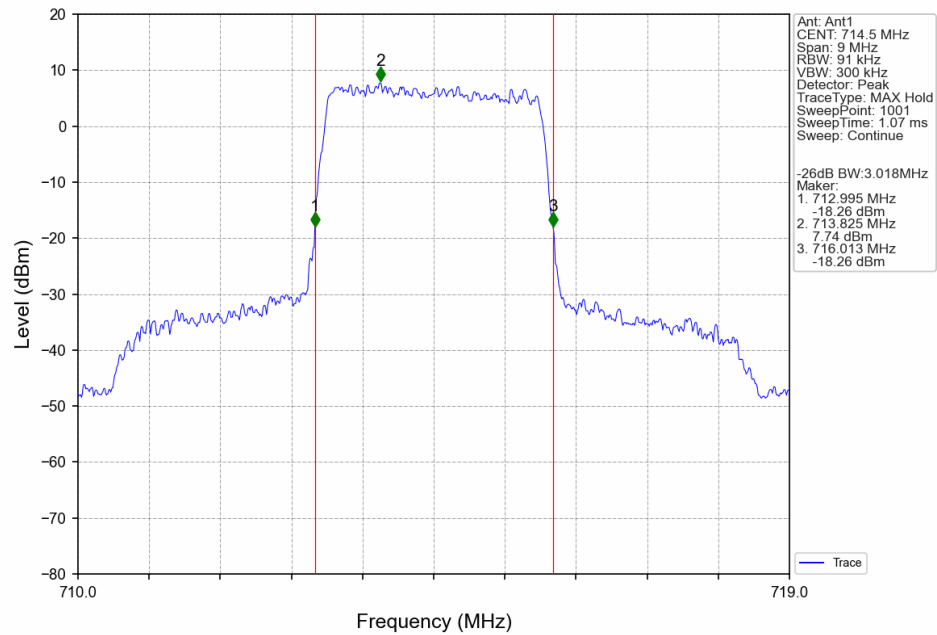


Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV

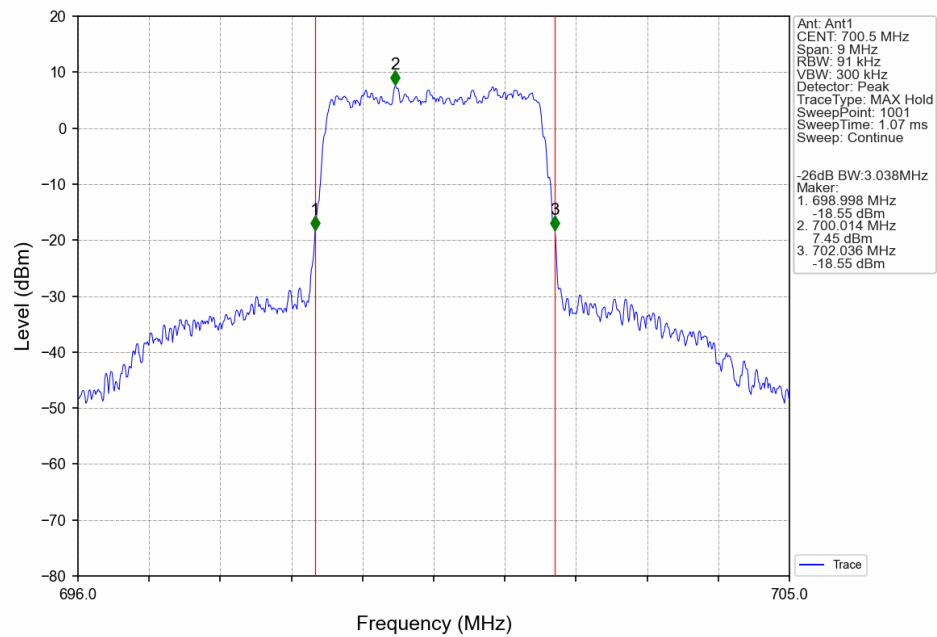




Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV

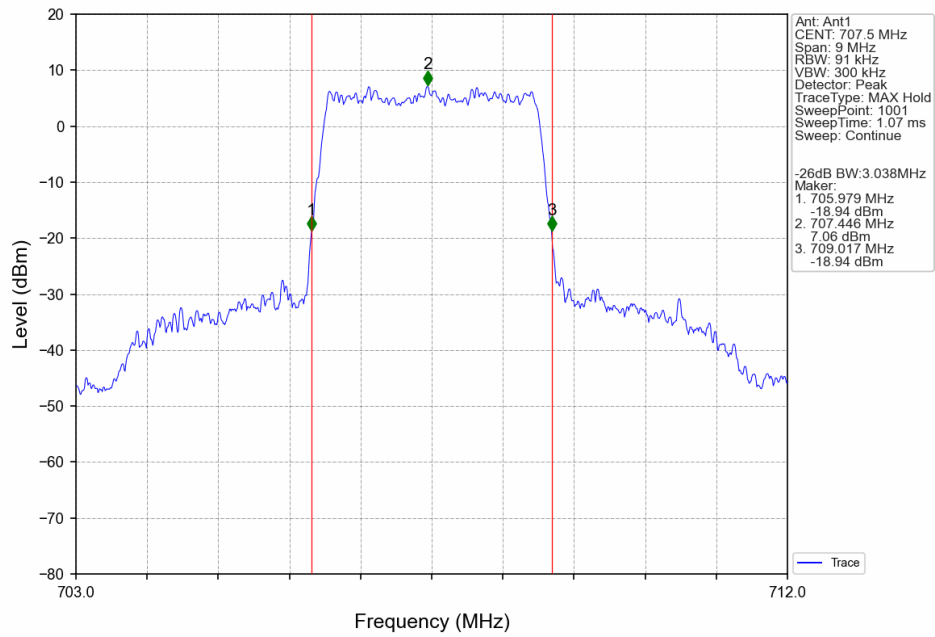


Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV

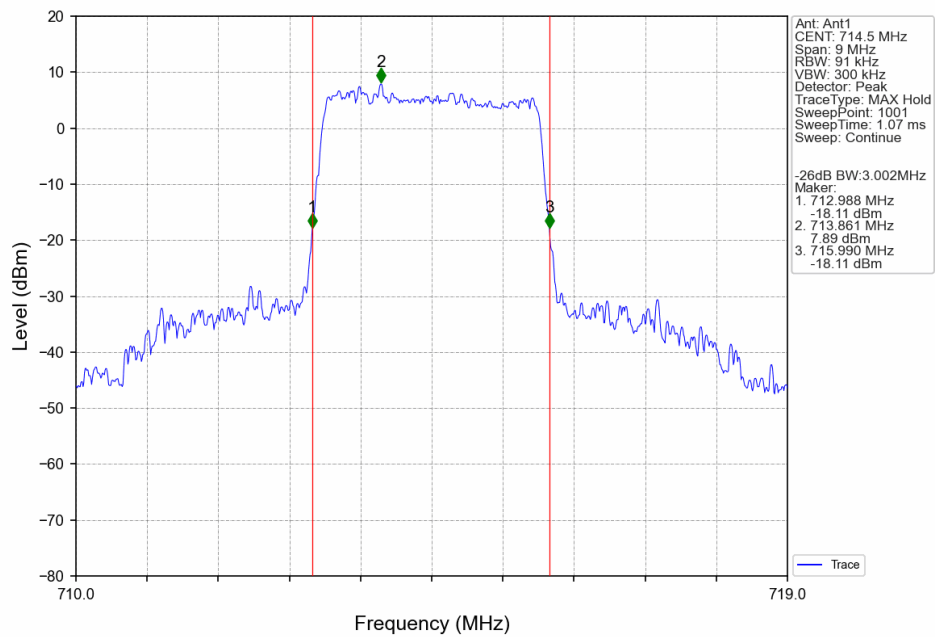




Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV

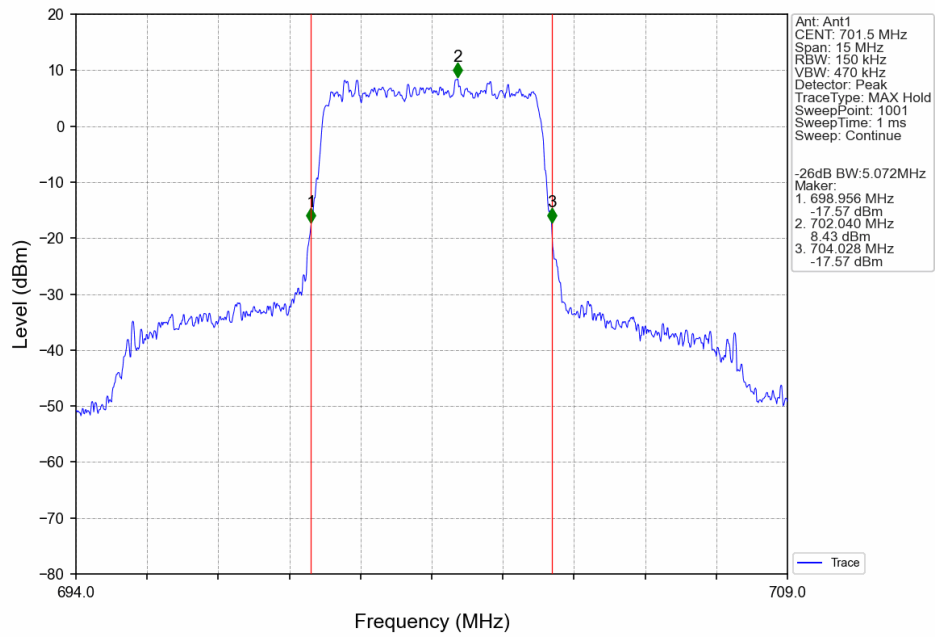


Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV

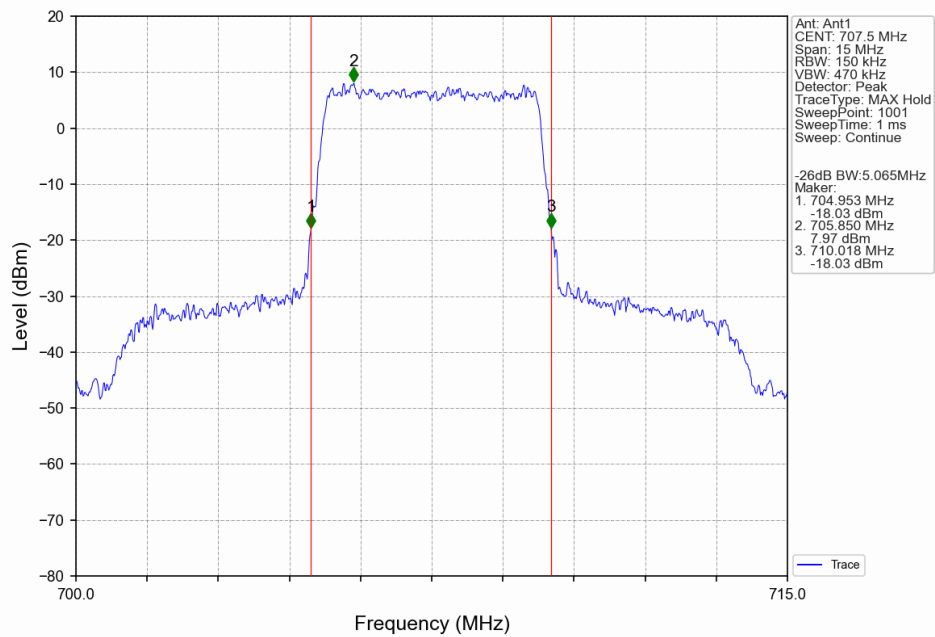




Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV

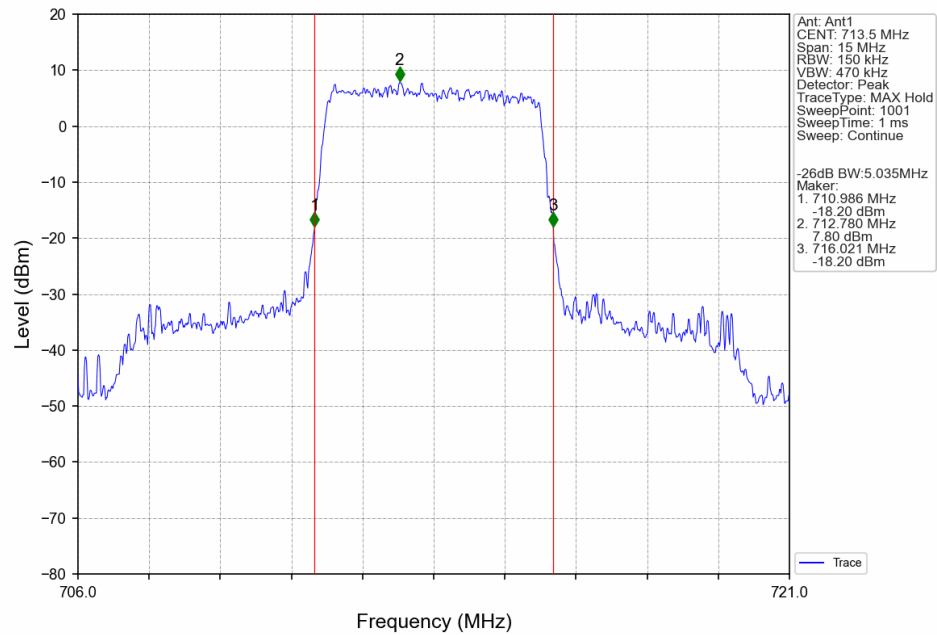


Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV

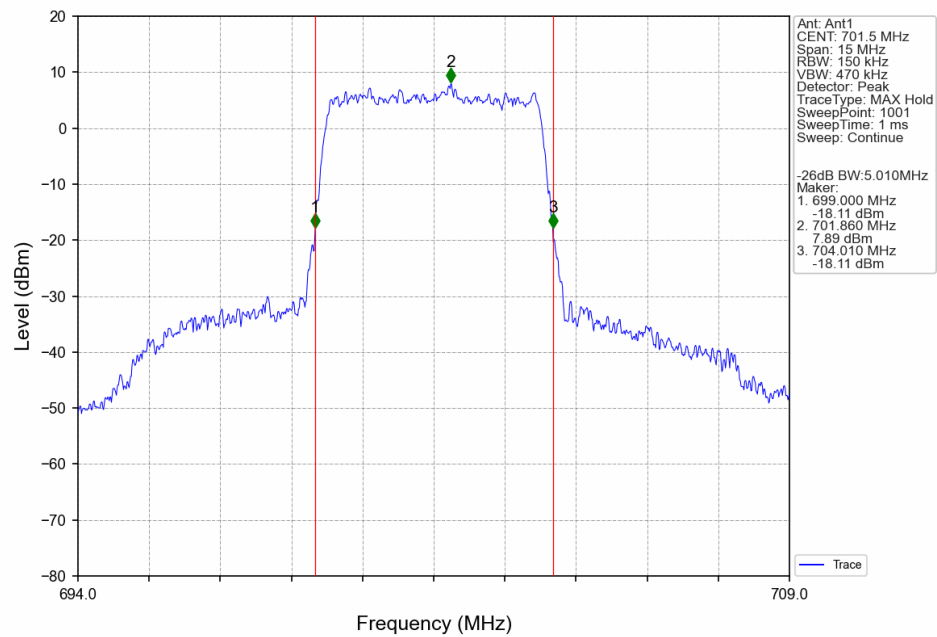




Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV

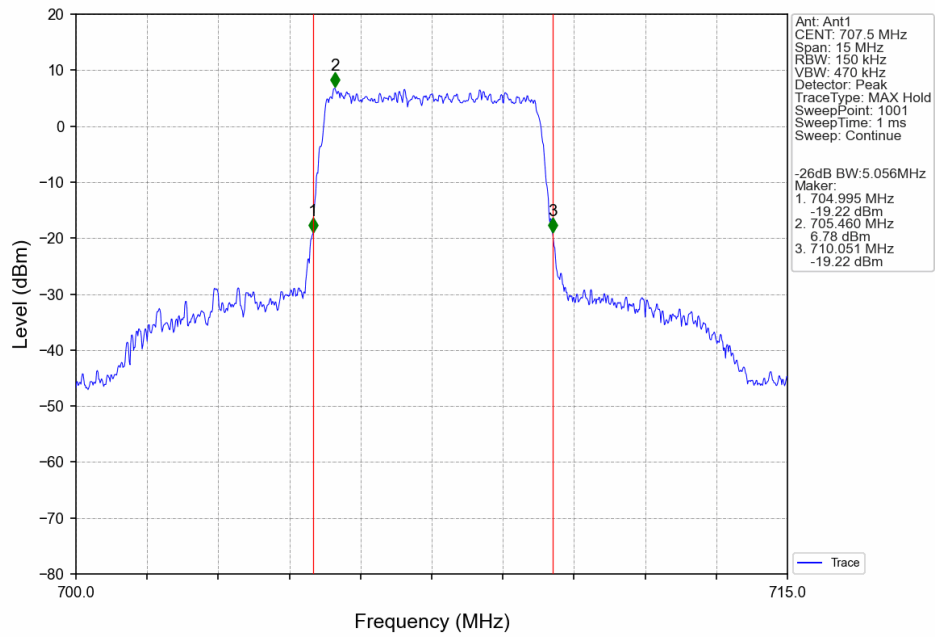


Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV

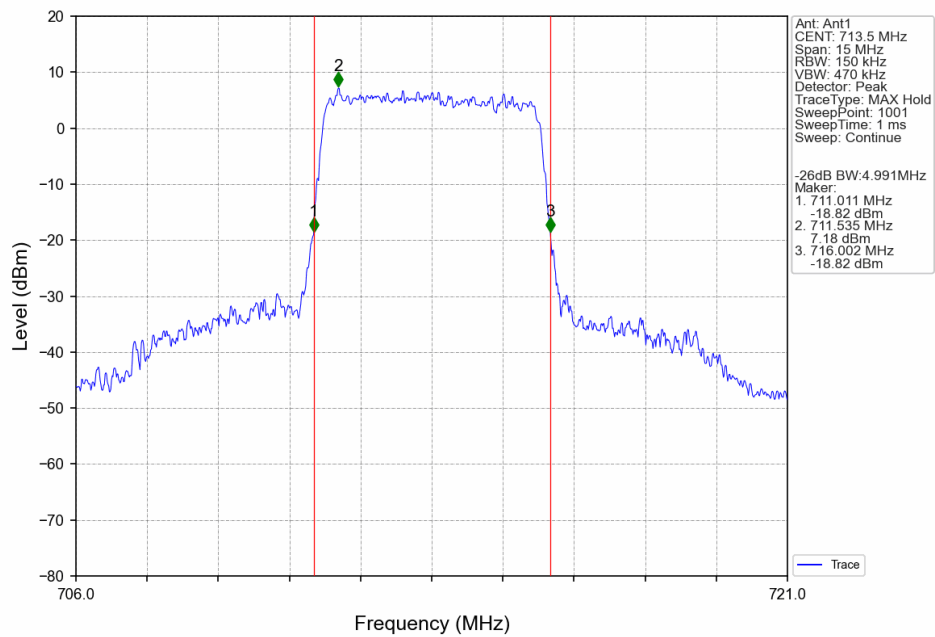




Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV

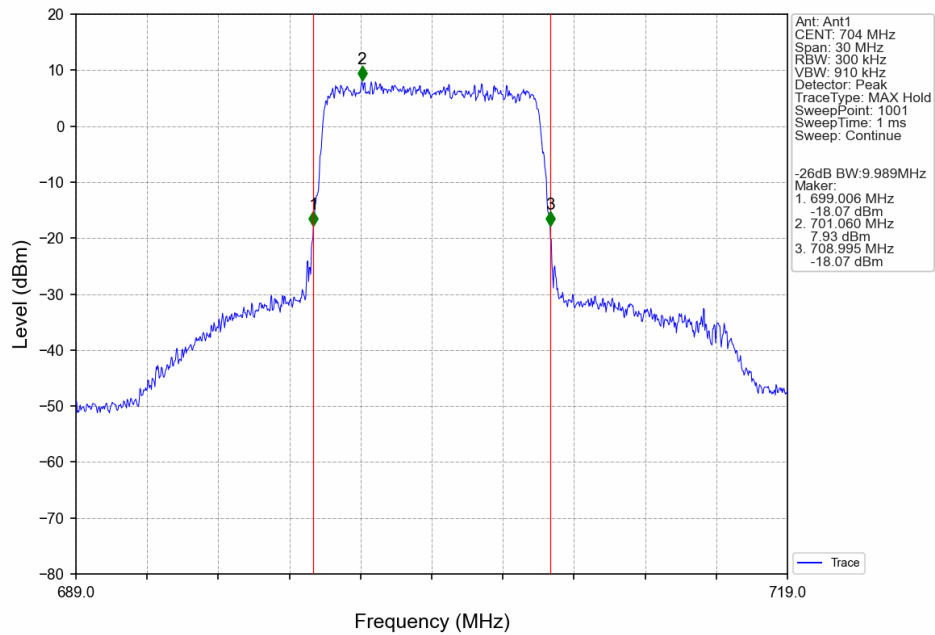


Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

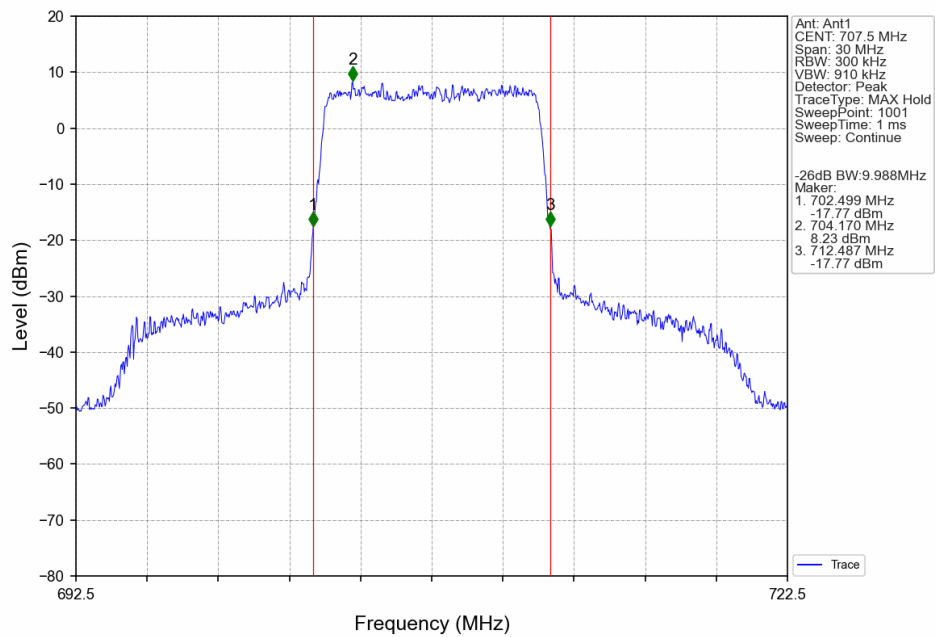




Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV

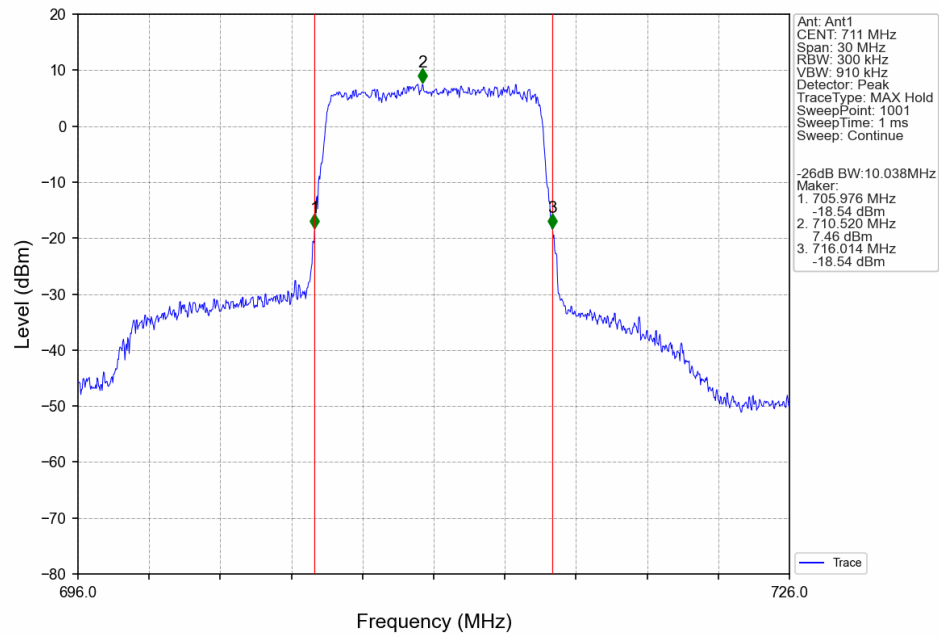


Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV

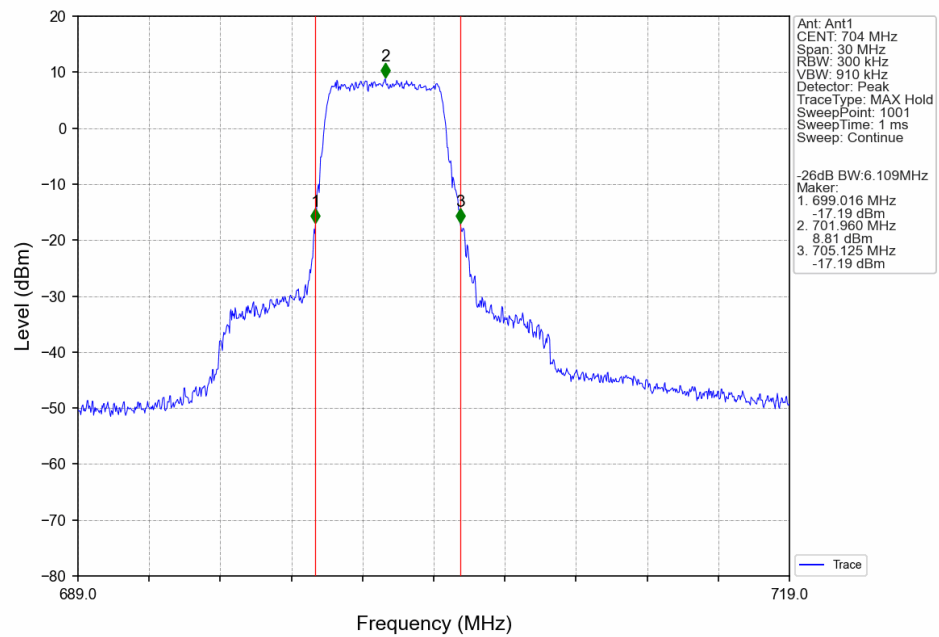




Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV

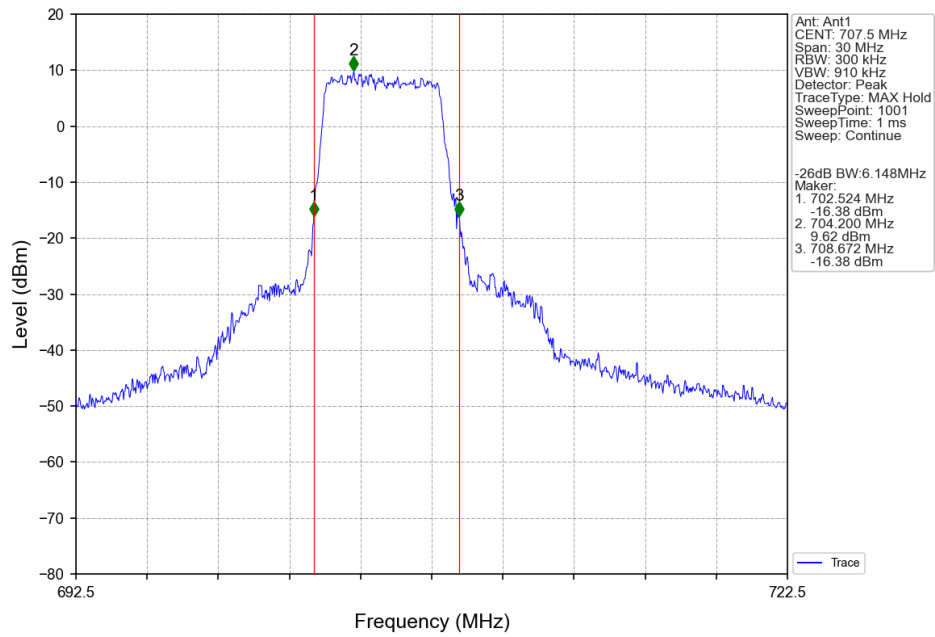


Band12_10MHz_16QAM_LCH_704MHz_RB_27_0_NTNV

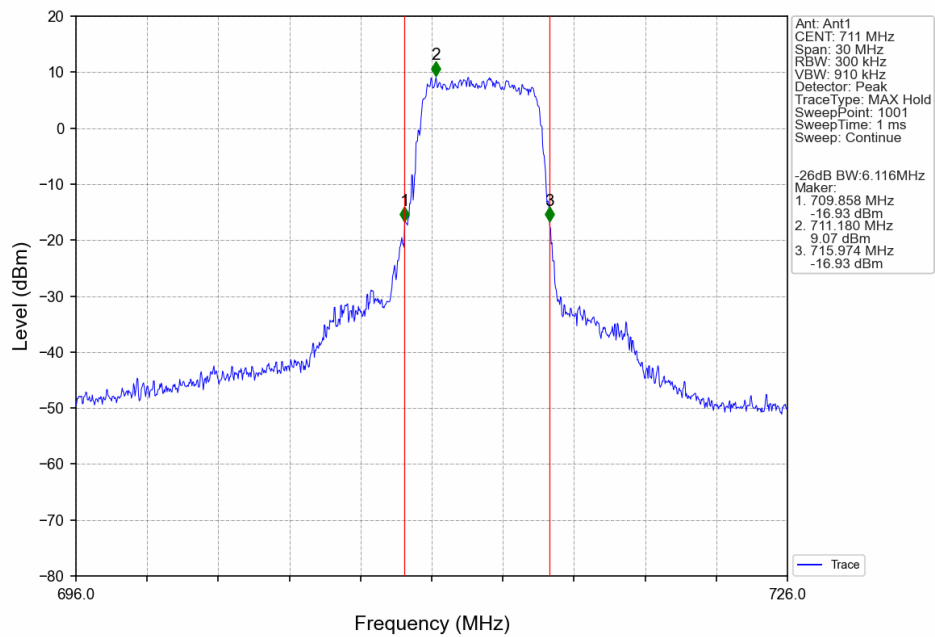




Band12_10MHz_16QAM_MCH_707.5MHz_RB_27_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_27_23_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	5.21	<=13	Pass
	707.5	6	0	5.18	<=13	Pass
	715.3	6	0	5.30	<=13	Pass
16QAM	699.7	6	0	5.97	<=13	Pass
	707.5	6	0	5.89	<=13	Pass
	715.3	6	0	6.03	<=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	5.35	<=13	Pass
	707.5	15	0	5.21	<=13	Pass
	714.5	15	0	5.26	<=13	Pass
16QAM	700.5	15	0	6.11	<=13	Pass
	707.5	15	0	6.00	<=13	Pass
	714.5	15	0	6.06	<=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	5.41	<=13	Pass
	707.5	25	0	5.41	<=13	Pass
	713.5	25	0	5.40	<=13	Pass
16QAM	701.5	25	0	6.13	<=13	Pass
	707.5	25	0	6.05	<=13	Pass
	713.5	25	0	6.05	<=13	Pass

5.1.4 B12_10MHz

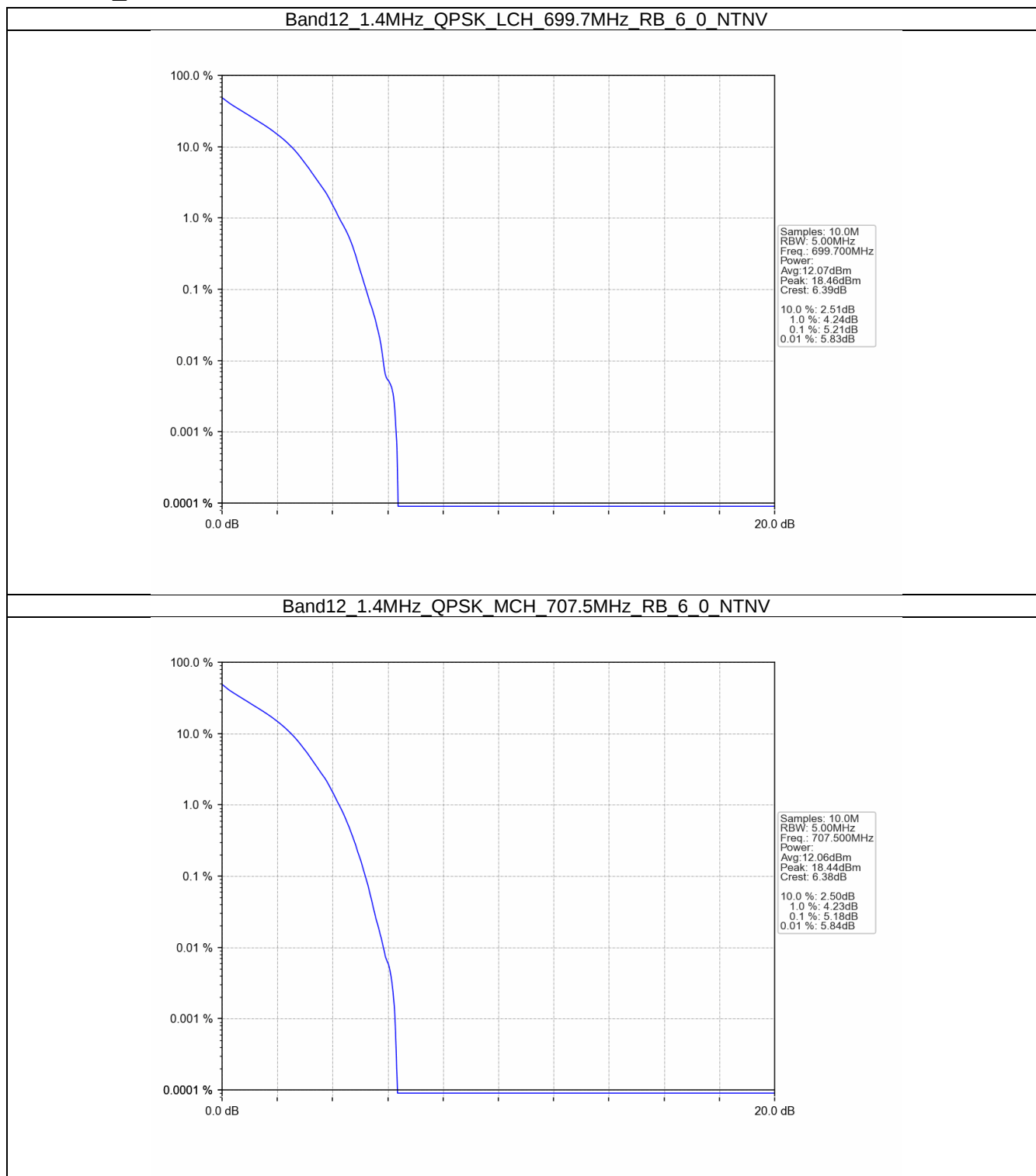
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	5.39	<=13	Pass
	707.5	50	0	5.44	<=13	Pass
	711	50	0	5.30	<=13	Pass
16QAM	704	27	0	6.04	<=13	Pass
	707.5	27	0	6.02	<=13	Pass
	711	27	23	6.07	<=13	Pass



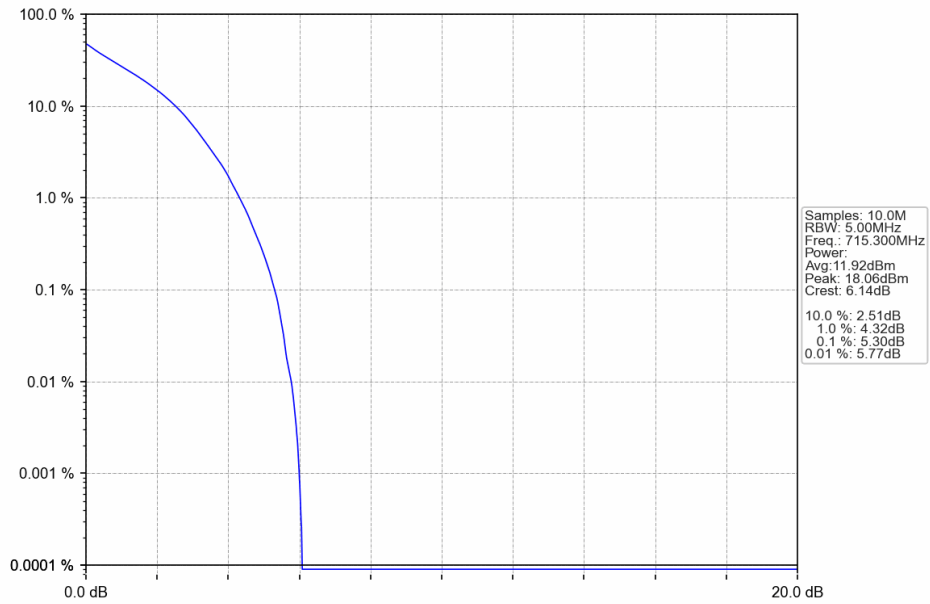


5.2 Test Graph

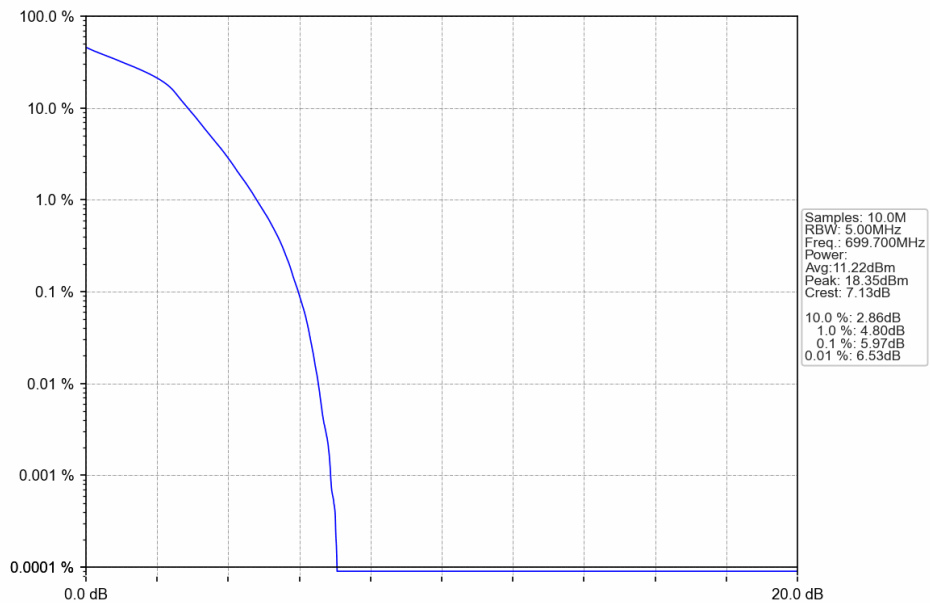
5.2.1 B12_1.4MHz



Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV

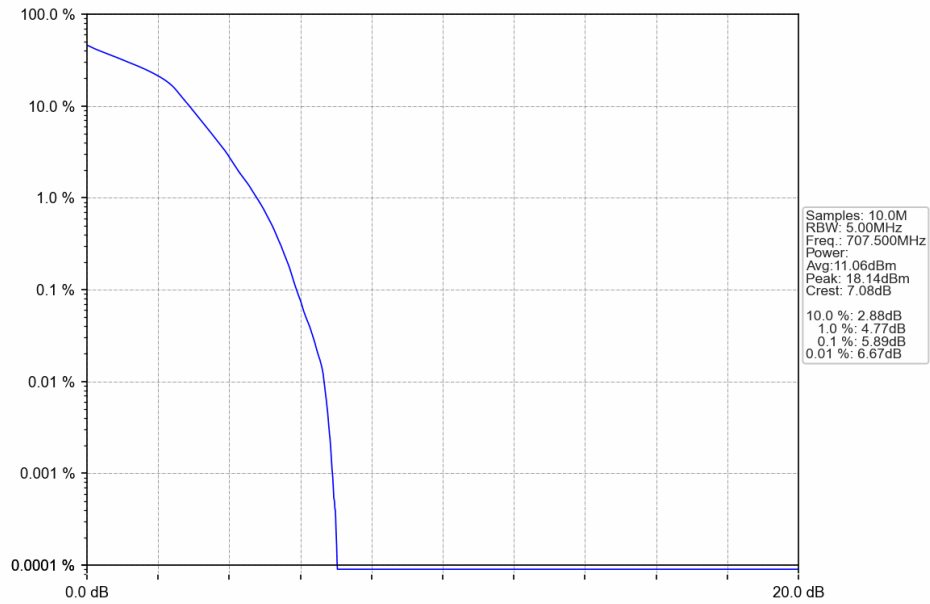


Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV

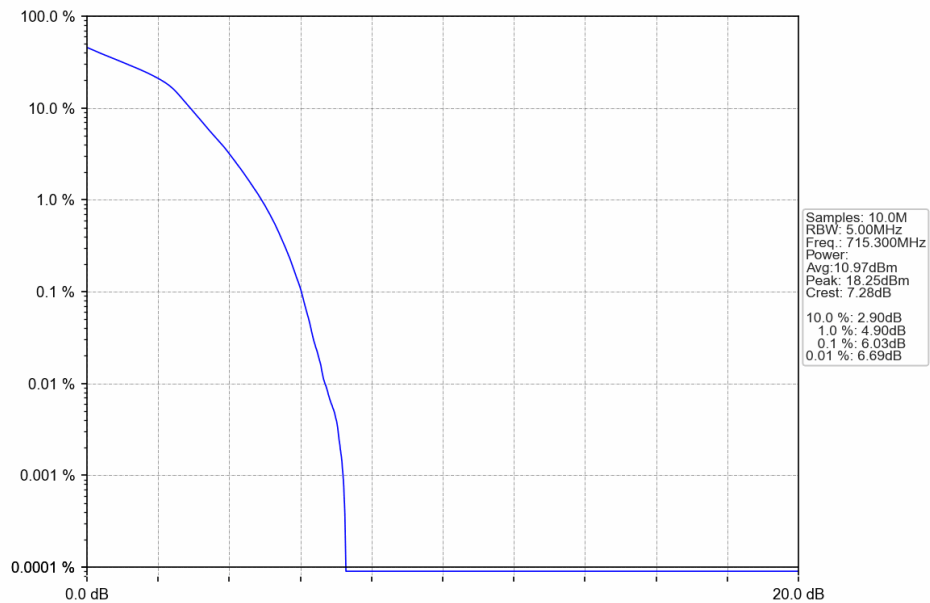




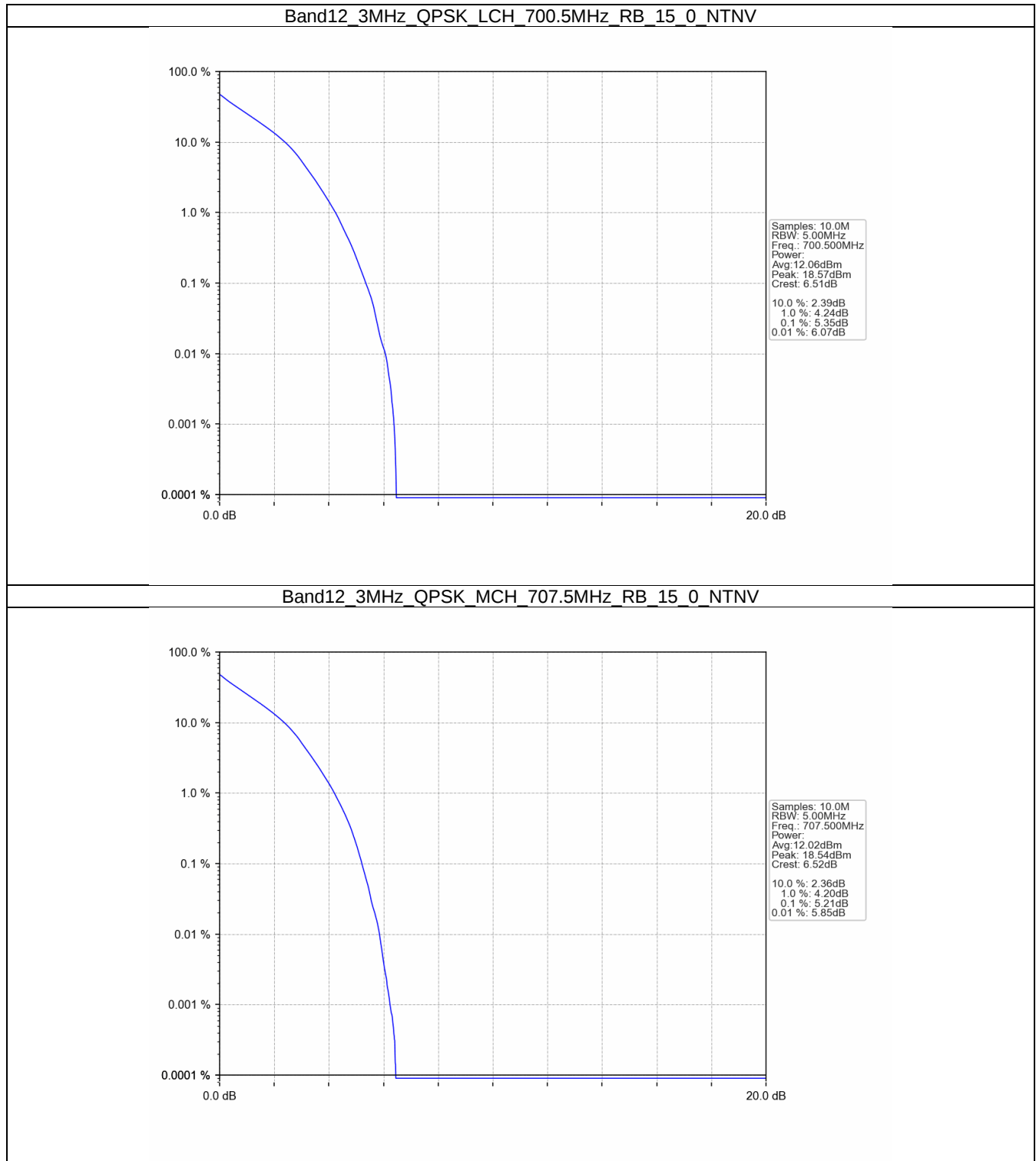
Band12 1.4MHz 16QAM MCH 707.5MHz RB 6 0 NTNV



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

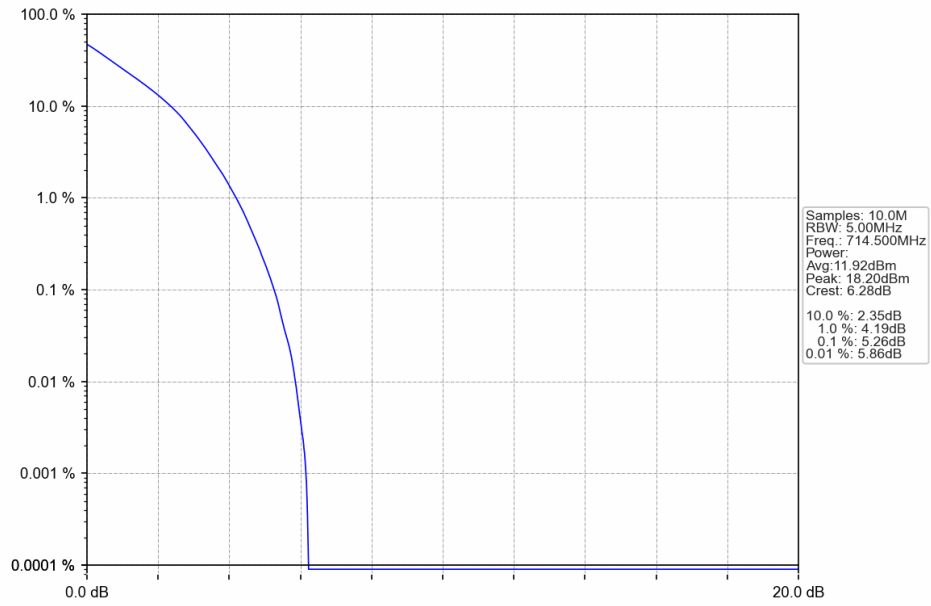


5.2.2 B12_3MHz

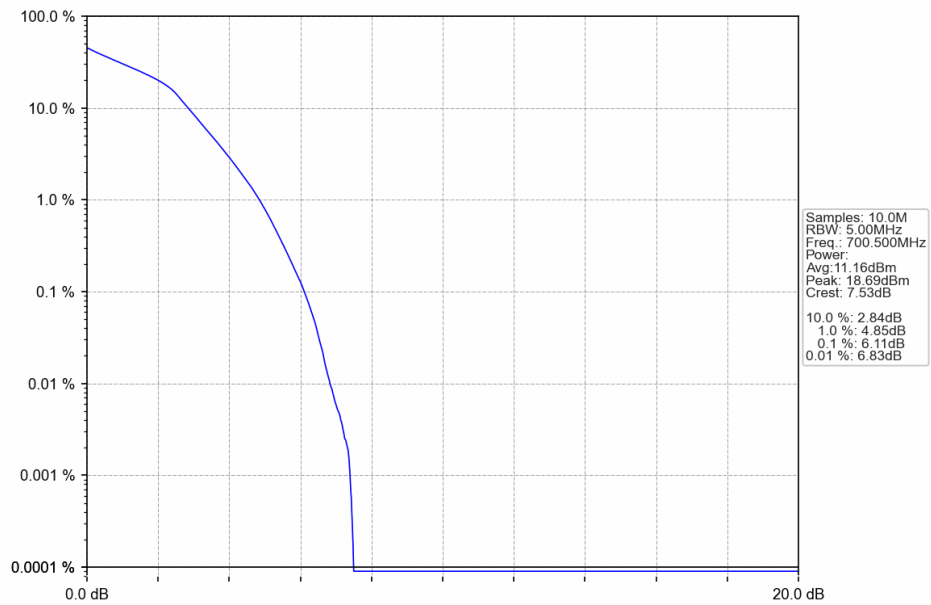




Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV

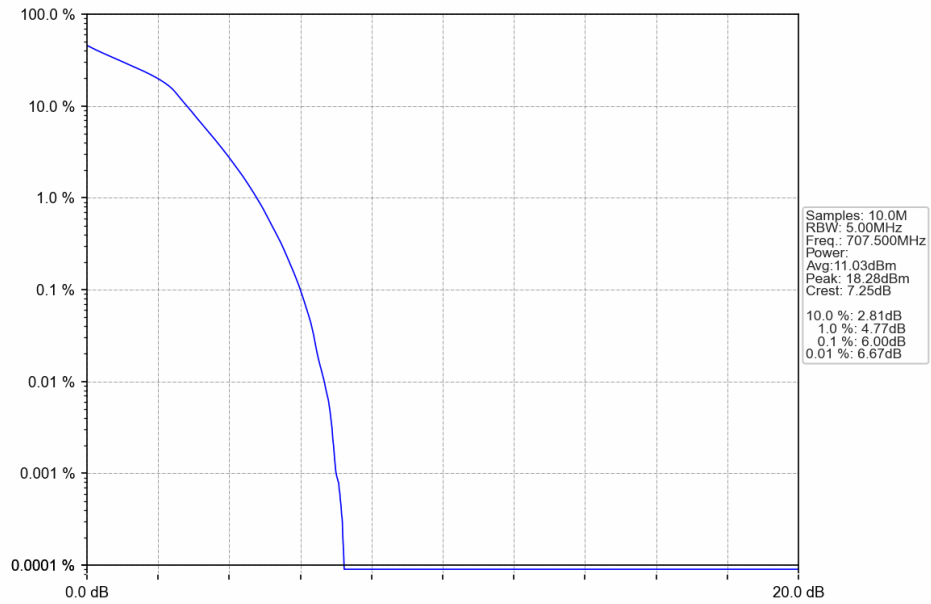


Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV

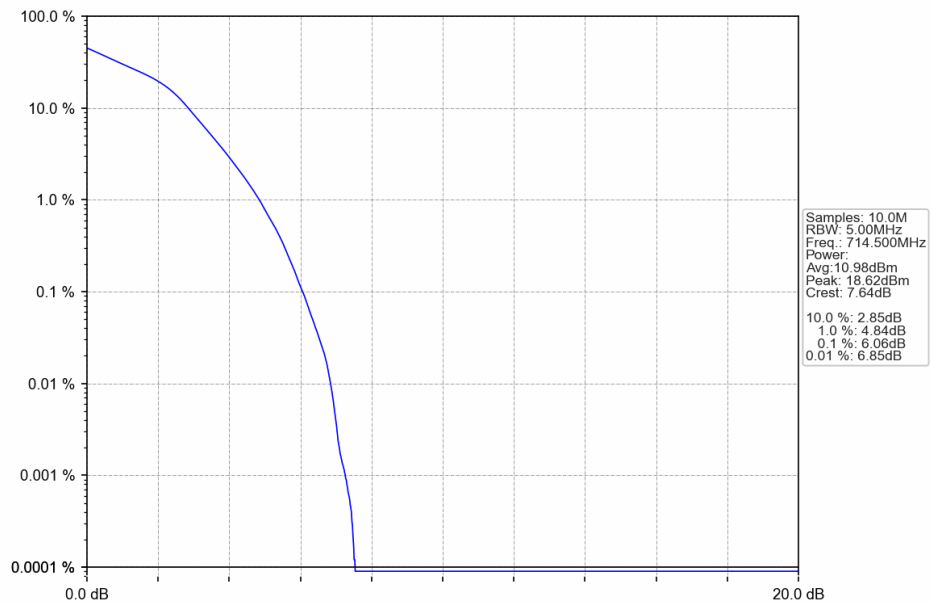




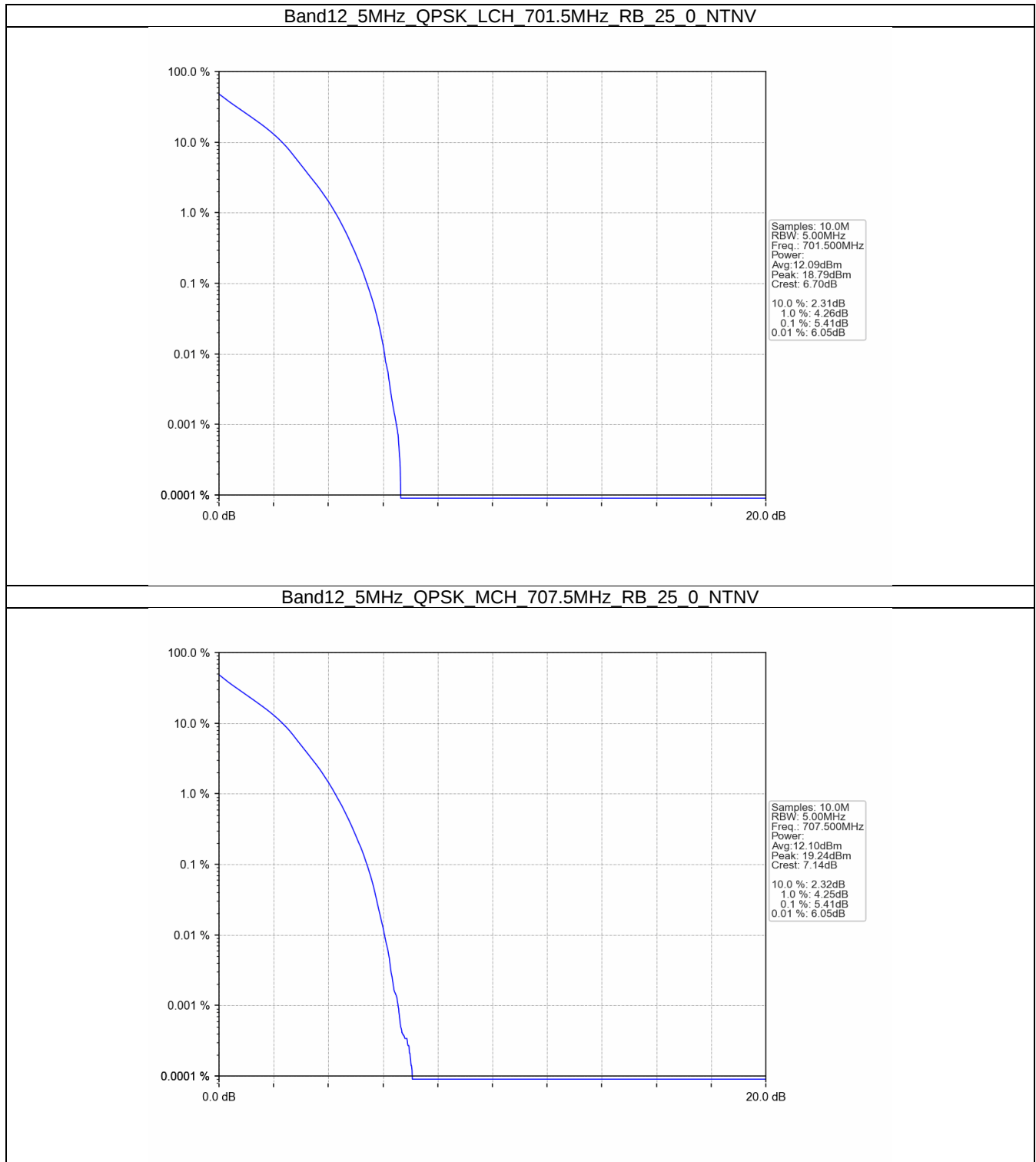
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



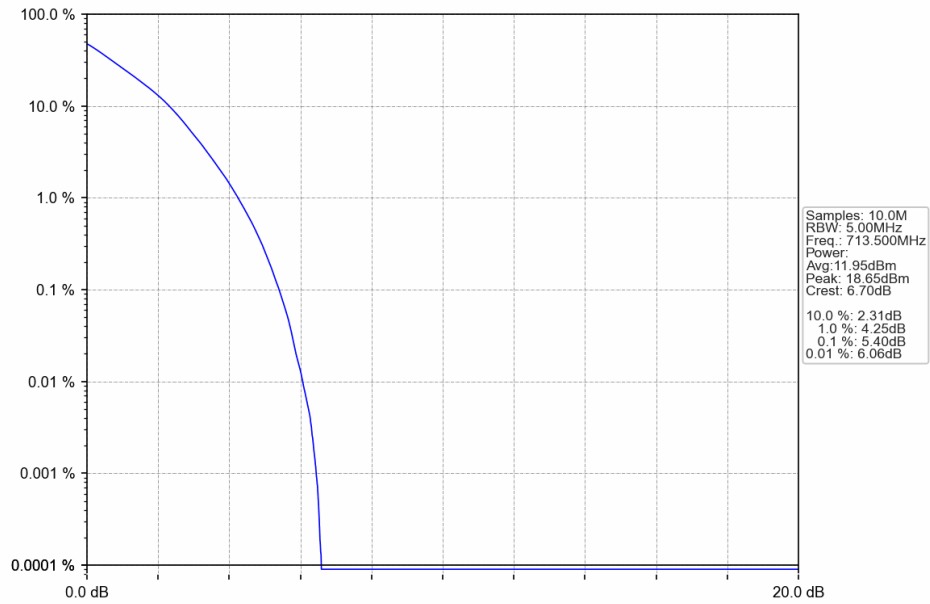
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



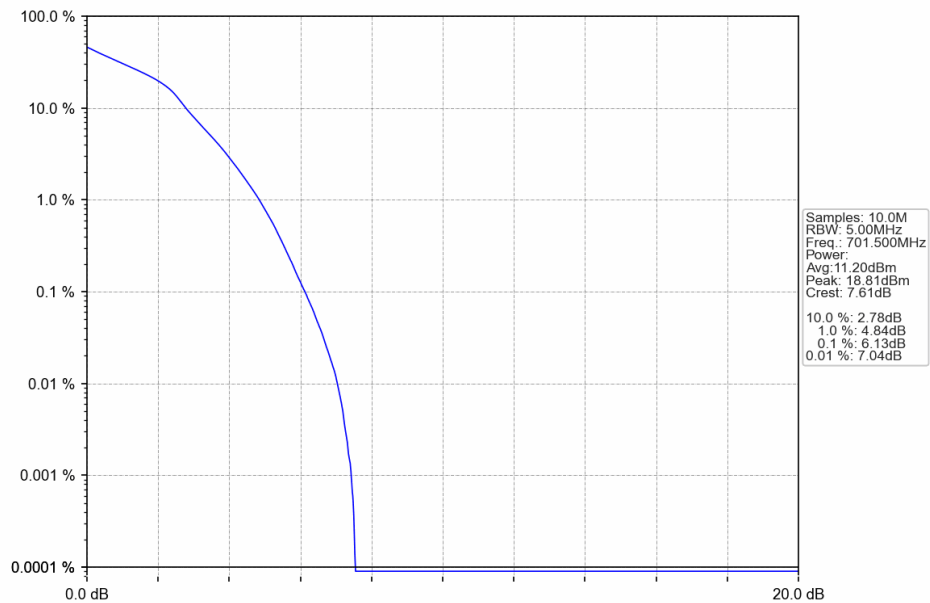
5.2.3 B12_5MHz



Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV

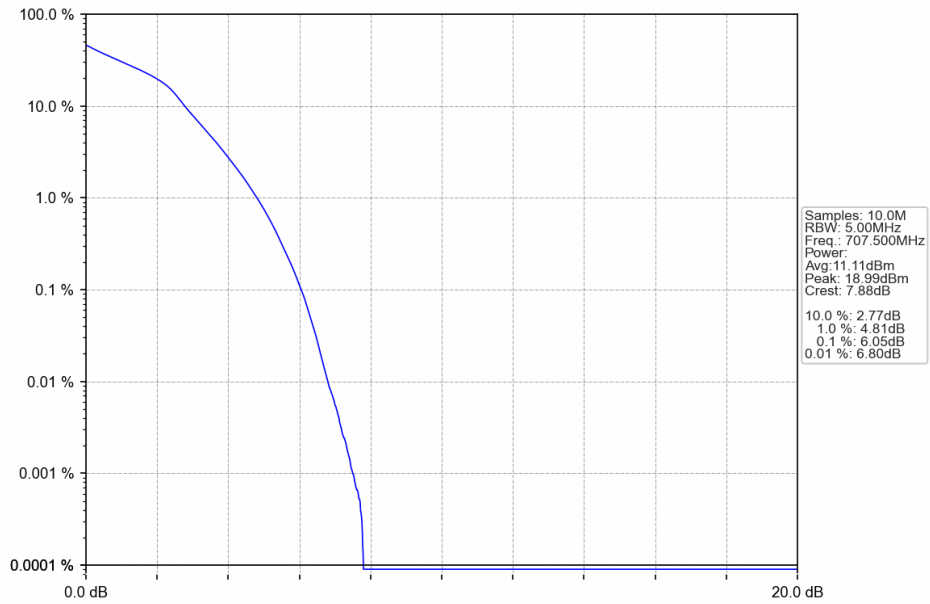


Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV

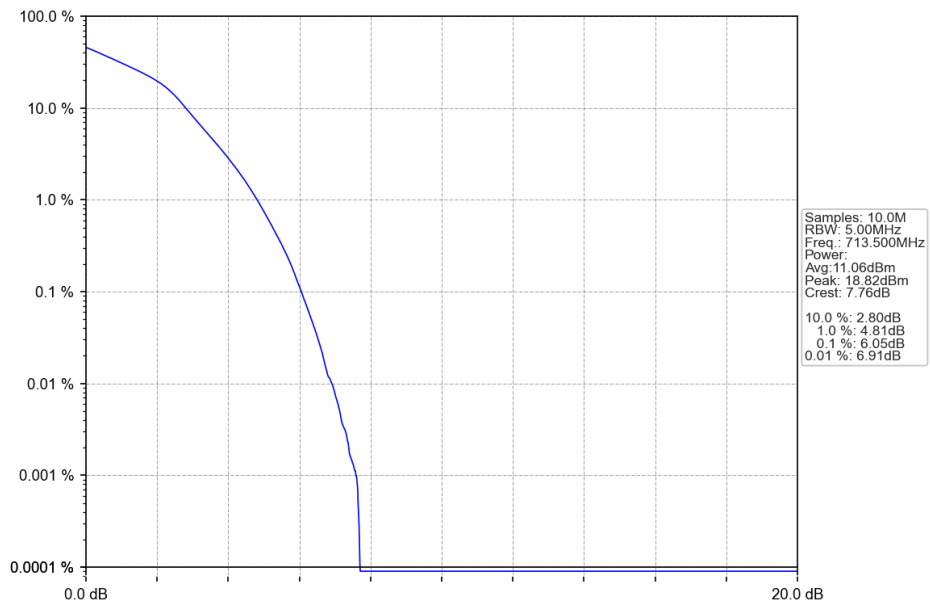




Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV

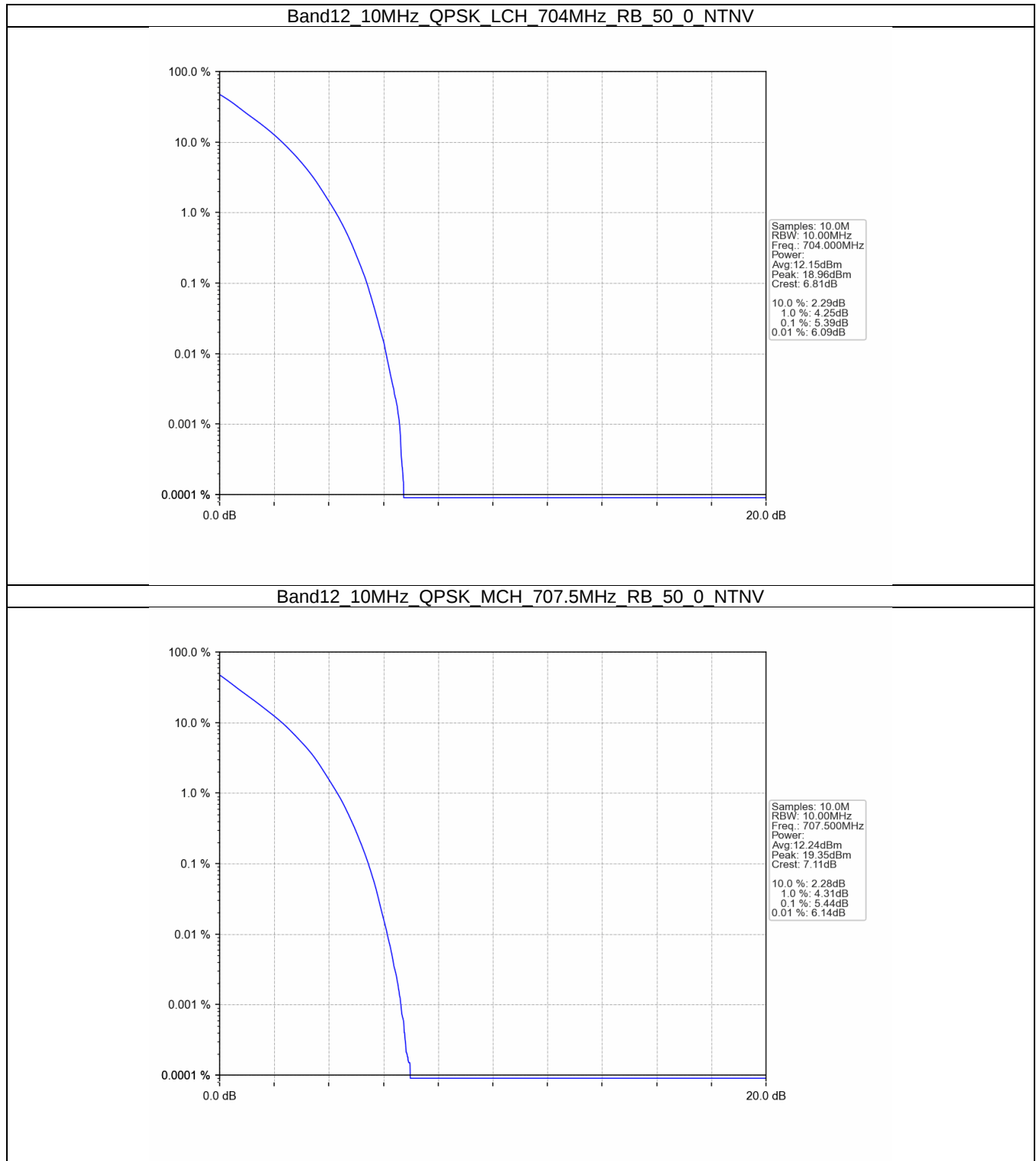


Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



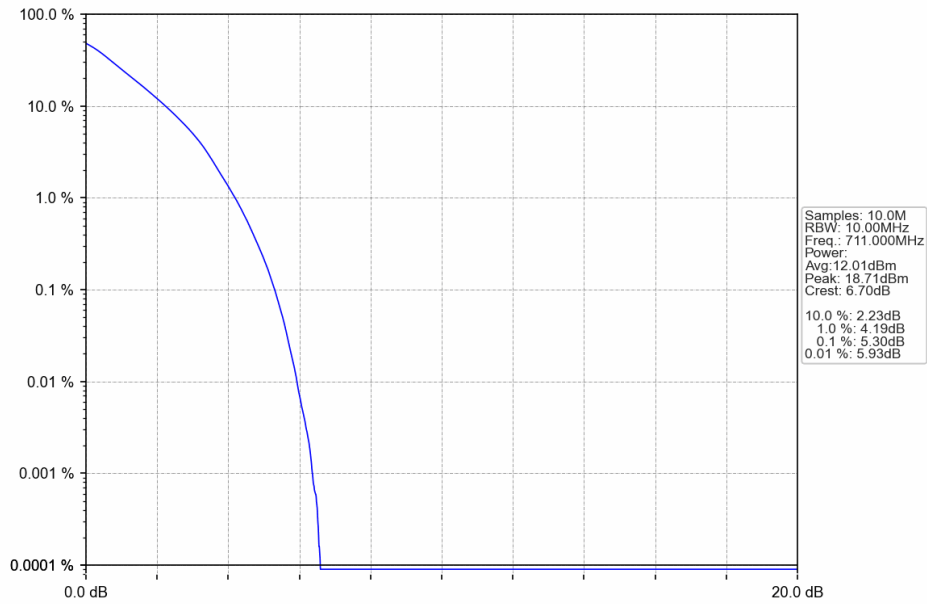


5.2.4 B12_10MHz

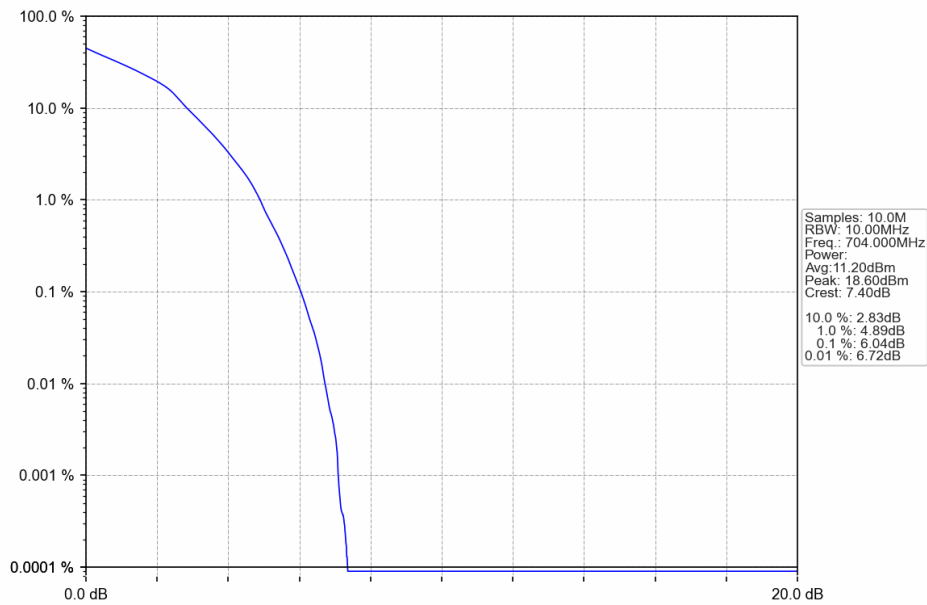




Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV

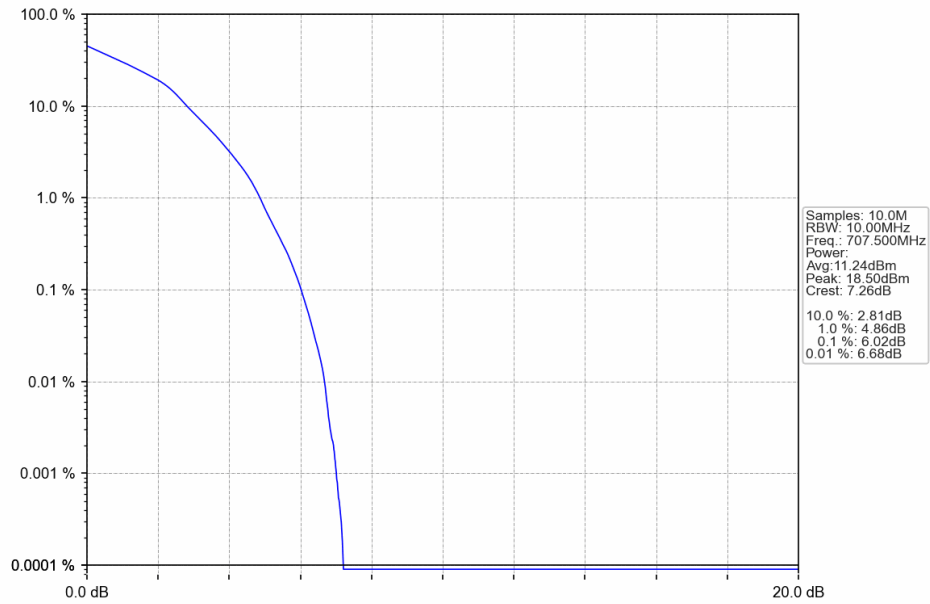


Band12_10MHz_16QAM_LCH_704MHz_RB_27_0_NTNV

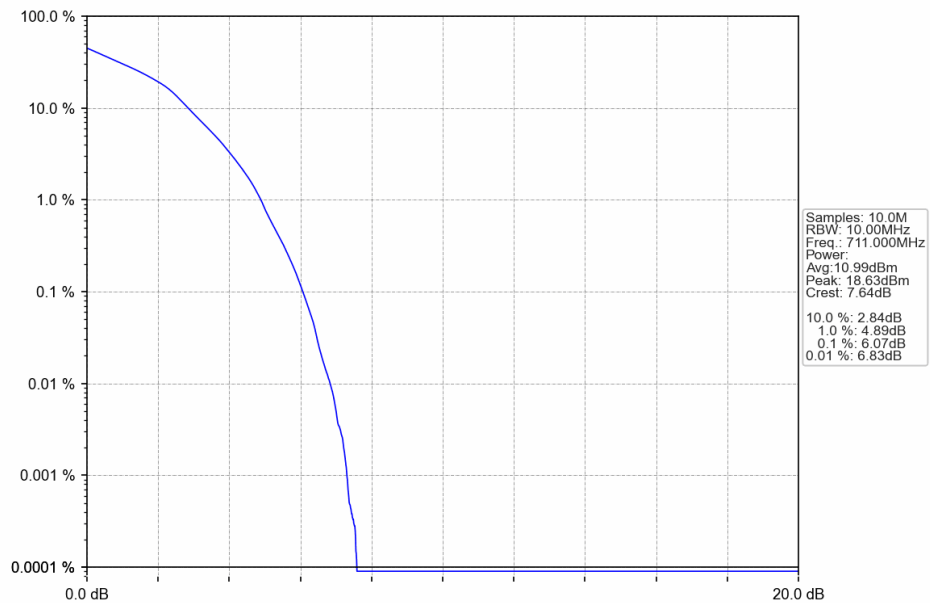




Band12_10MHz_16QAM_MCH_707.5MHz_RB_27_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_27_23_NTNV



6. Spurious Emission

6.1 Test Result

6.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	715.3	1	0	Refer To Test Graph		Pass
		1	5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
16QAM	699.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	715.3	1	0	Refer To Test Graph		Pass
		1	5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

6.1.2 B12_3MHz

Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	714.5	1	0	Refer To Test Graph		Pass
		1	14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
16QAM	700.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	714.5	1	0	Refer To Test Graph		Pass
		1	14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

6.1.3 B12_5MHz

Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
		1	24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	701.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



	707.5	1	0	Refer To Test Graph	Pass
	713.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass

6.1.4 B12_10MHz

Band: 12 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	704	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	704	1	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass

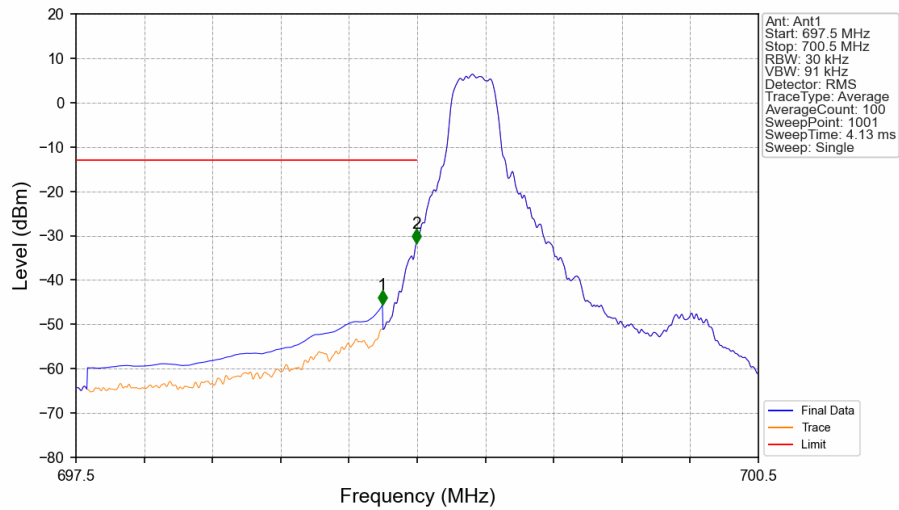


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6.2 Test Graph

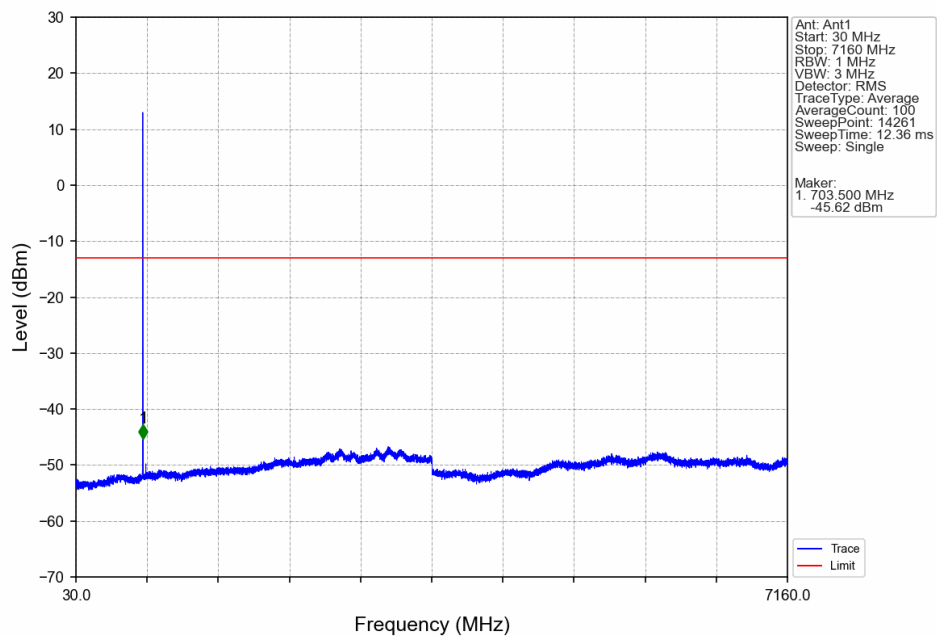
6.2.1 B12_1.4MHz

Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV

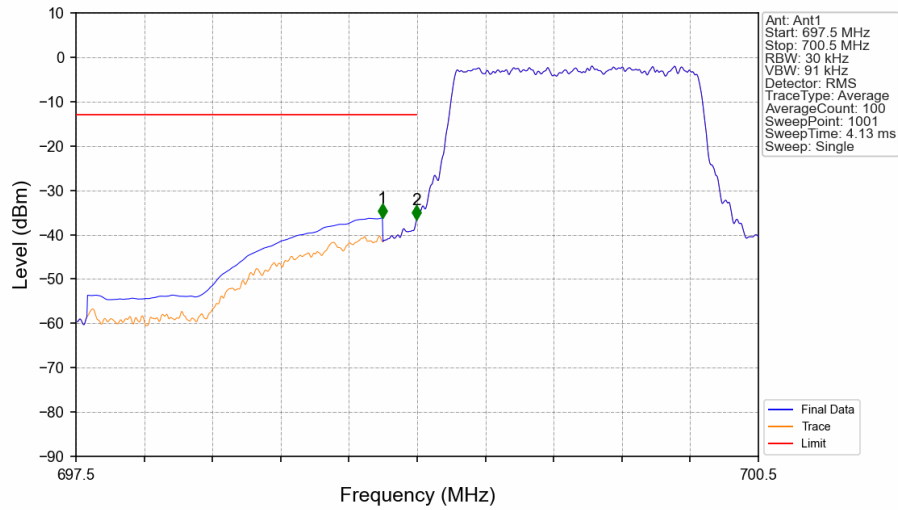


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-45.55	-13	Pass
698.9	699	0.03	/	2	698.997	-31.60	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

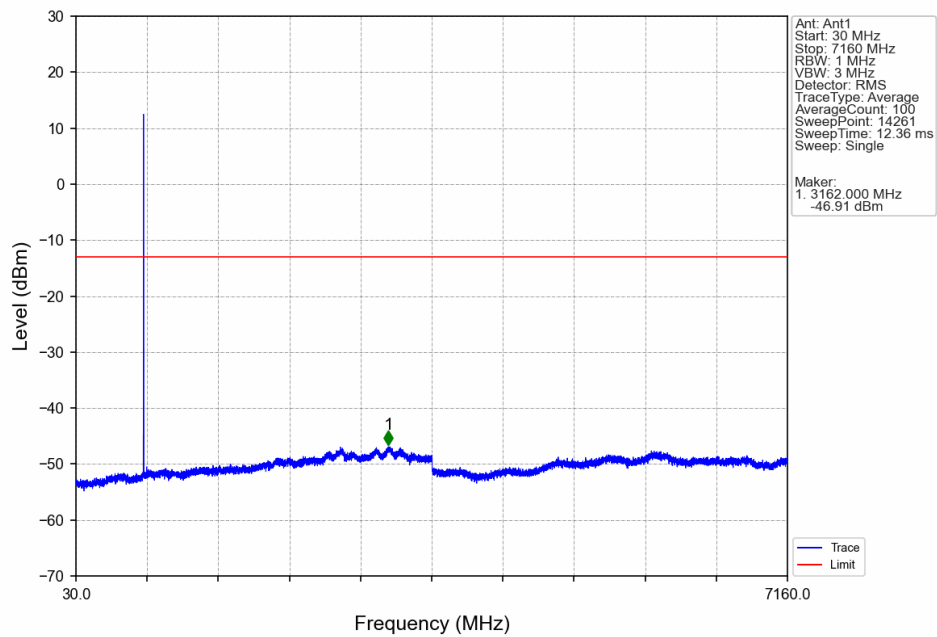
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV



Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



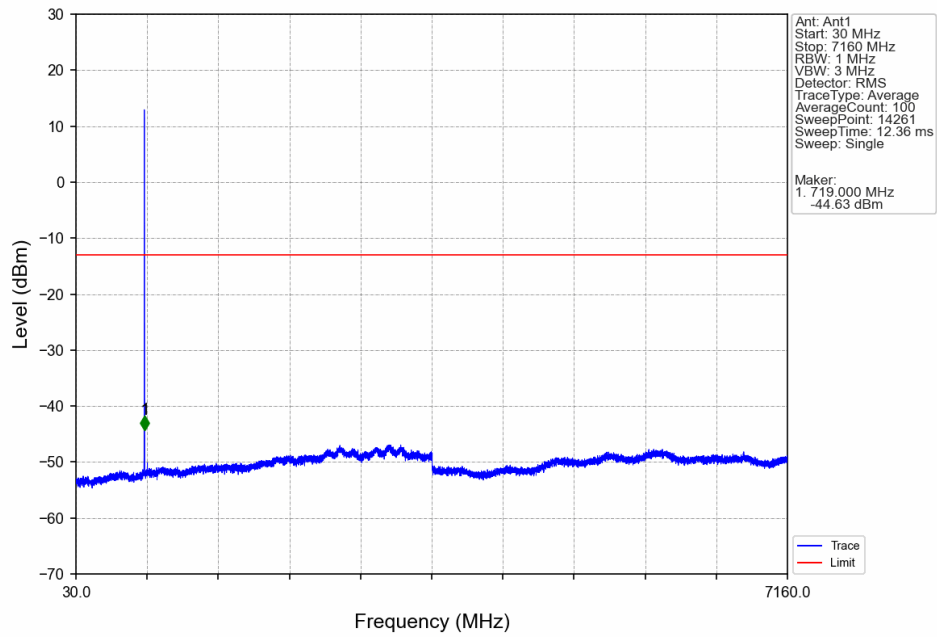
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



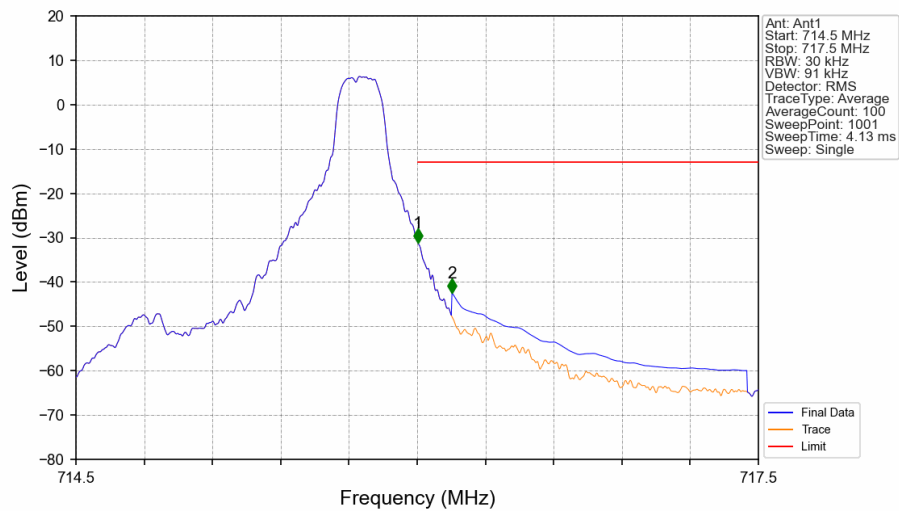


4

Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV



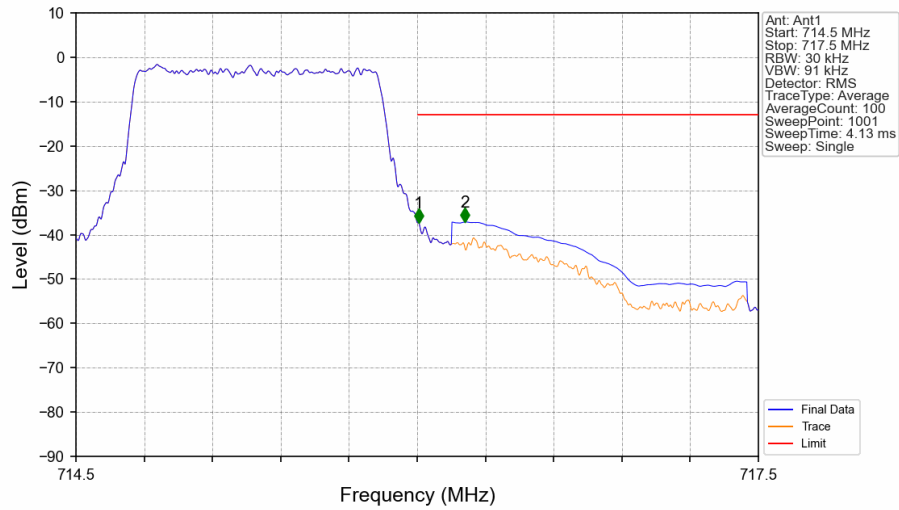
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_5_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.003	-31.08	-13	Pass
716.1	717.5	0.1	CHP	2	716.153	-42.43	-13	Pass

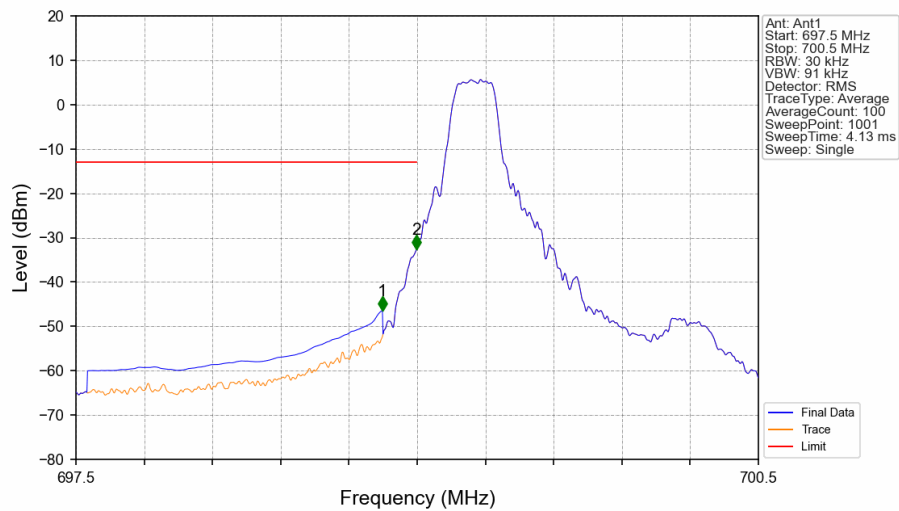


Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.006	-37.27	-13	Pass
716.1	717.5	0.1	CHP	2	716.210	-37.13	-13	Pass

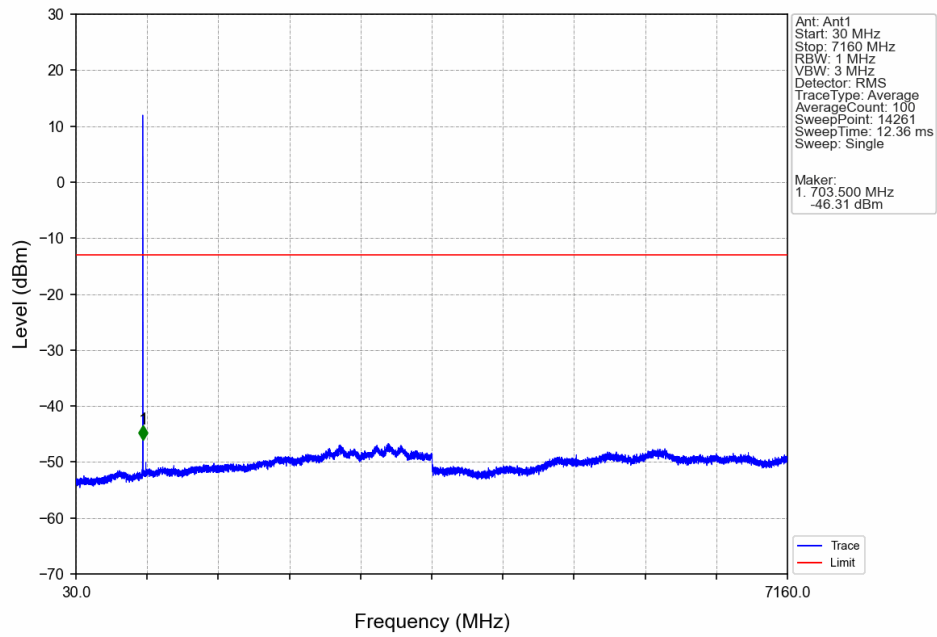
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV



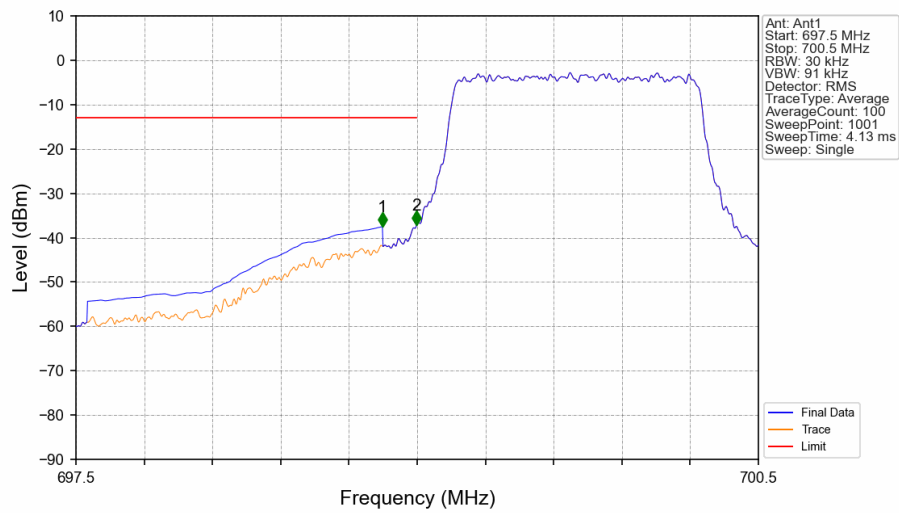
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-46.36	-13	Pass
698.9	699	0.03	/	2	698.997	-32.65	-13	Pass
699	700.5	0.03	/	/	/	/	/	/



Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV



Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-37.47	-13	Pass
698.9	699	0.03	/	2	698.997	-37.15	-13	Pass
699	700.5	0.03	/	/	/	/	/	/