

1. Effective (Isotropic) Radiated Power Output Data

1.1 B12_1.4MHz_ERP

1.1.1 Test Result

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	22.08	-2.52	17.41	<=34.77	Pass
			2	22.21	-2.52	17.54	<=34.77	Pass
			5	22.15	-2.52	17.48	<=34.77	Pass
		3	0	22.11	-2.52	17.44	<=34.77	Pass
			2	22.14	-2.52	17.47	<=34.77	Pass
			3	22.17	-2.52	17.50	<=34.77	Pass
		6	0	21.14	-2.52	16.47	<=34.77	Pass
	707.5	1	0	22.10	-2.52	17.43	<=34.77	Pass
			2	21.85	-2.52	17.18	<=34.77	Pass
			5	21.75	-2.52	17.08	<=34.77	Pass
		3	0	21.83	-2.52	17.16	<=34.77	Pass
			2	21.84	-2.52	17.17	<=34.77	Pass
			3	21.81	-2.52	17.14	<=34.77	Pass
		6	0	20.80	-2.52	16.13	<=34.77	Pass
	715.3	1	0	22.27	-2.52	17.60	<=34.77	Pass
			2	22.40	-2.52	17.73	<=34.77	Pass
			5	22.14	-2.52	17.47	<=34.77	Pass
		3	0	22.04	-2.52	17.37	<=34.77	Pass
			2	21.93	-2.52	17.26	<=34.77	Pass
			3	21.87	-2.52	17.20	<=34.77	Pass
		6	0	20.88	-2.52	16.21	<=34.77	Pass
16QAM	699.7	1	0	21.04	-2.52	16.37	<=34.77	Pass
			2	21.13	-2.52	16.46	<=34.77	Pass
			5	21.08	-2.52	16.41	<=34.77	Pass
		3	0	21.16	-2.52	16.49	<=34.77	Pass
			2	21.17	-2.52	16.50	<=34.77	Pass
			3	21.16	-2.52	16.49	<=34.77	Pass
		6	0	20.03	-2.52	15.36	<=34.77	Pass
	707.5	1	0	20.84	-2.52	16.17	<=34.77	Pass
			2	20.96	-2.52	16.29	<=34.77	Pass
			5	21.28	-2.52	16.61	<=34.77	Pass
		3	0	21.36	-2.52	16.69	<=34.77	Pass
			2	21.38	-2.52	16.71	<=34.77	Pass
			3	21.38	-2.52	16.71	<=34.77	Pass
		6	0	20.25	-2.52	15.58	<=34.77	Pass
	715.3	1	0	20.90	-2.52	16.23	<=34.77	Pass
			2	21.01	-2.52	16.34	<=34.77	Pass
			5	20.92	-2.52	16.25	<=34.77	Pass
		3	0	20.82	-2.52	16.15	<=34.77	Pass
			2	20.84	-2.52	16.17	<=34.77	Pass
			3	20.86	-2.52	16.19	<=34.77	Pass
		6	0	19.91	-2.52	15.24	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.2 B12_3MHz_ERP

1.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	700.5	1	0	21.60	-2.52	16.93	<=34.77	Pass
			7	21.78	-2.52	17.11	<=34.77	Pass
			14	21.65	-2.52	16.98	<=34.77	Pass
		8	0	20.58	-2.52	15.91	<=34.77	Pass
			4	20.62	-2.52	15.95	<=34.77	Pass
			7	20.57	-2.52	15.90	<=34.77	Pass
		15	0	20.55	-2.52	15.88	<=34.77	Pass
	707.5	1	0	21.70	-2.52	17.03	<=34.77	Pass
			7	21.86	-2.52	17.19	<=34.77	Pass
			14	21.74	-2.52	17.07	<=34.77	Pass
		8	0	20.70	-2.52	16.03	<=34.77	Pass
			4	20.79	-2.52	16.12	<=34.77	Pass
			7	20.75	-2.52	16.08	<=34.77	Pass
		15	0	20.73	-2.52	16.06	<=34.77	Pass
	714.5	1	0	21.79	-2.52	17.12	<=34.77	Pass
			7	21.97	-2.52	17.30	<=34.77	Pass
			14	21.85	-2.52	17.18	<=34.77	Pass
		8	0	20.83	-2.52	16.16	<=34.77	Pass
			4	20.87	-2.52	16.20	<=34.77	Pass
			7	20.81	-2.52	16.14	<=34.77	Pass
		15	0	20.80	-2.52	16.13	<=34.77	Pass
16QAM	700.5	1	0	20.56	-2.52	15.89	<=34.77	Pass
			7	20.74	-2.52	16.07	<=34.77	Pass
			14	21.20	-2.52	16.53	<=34.77	Pass
		8	0	19.81	-2.52	15.14	<=34.77	Pass
			4	19.75	-2.52	15.08	<=34.77	Pass
			7	19.55	-2.52	14.88	<=34.77	Pass
		15	0	19.53	-2.52	14.86	<=34.77	Pass
	707.5	1	0	21.25	-2.52	16.58	<=34.77	Pass
			7	21.39	-2.52	16.72	<=34.77	Pass
			14	21.28	-2.52	16.61	<=34.77	Pass
		8	0	19.84	-2.52	15.17	<=34.77	Pass
			4	19.92	-2.52	15.25	<=34.77	Pass
			7	19.89	-2.52	15.22	<=34.77	Pass
		15	0	19.76	-2.52	15.09	<=34.77	Pass
	714.5	1	0	20.78	-2.52	16.11	<=34.77	Pass
			7	20.93	-2.52	16.26	<=34.77	Pass
			14	20.80	-2.52	16.13	<=34.77	Pass
		8	0	19.86	-2.52	15.19	<=34.77	Pass
4			19.92	-2.52	15.25	<=34.77	Pass	
7			19.86	-2.52	15.19	<=34.77	Pass	
15		0	19.82	-2.52	15.15	<=34.77	Pass	
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.3 B12_5MHz_ERP

1.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	701.5	1	0	21.45	-2.52	16.78	<=34.77	Pass
			13	21.62	-2.52	16.95	<=34.77	Pass
			24	21.60	-2.52	16.93	<=34.77	Pass
		12	0	20.61	-2.52	15.94	<=34.77	Pass
			6	20.60	-2.52	15.93	<=34.77	Pass
			13	20.57	-2.52	15.90	<=34.77	Pass
		25	0	20.60	-2.52	15.93	<=34.77	Pass
	707.5	1	0	21.58	-2.52	16.91	<=34.77	Pass
			13	21.79	-2.52	17.12	<=34.77	Pass
			24	21.69	-2.52	17.02	<=34.77	Pass
		12	0	20.65	-2.52	15.98	<=34.77	Pass
			6	20.74	-2.52	16.07	<=34.77	Pass
			13	20.83	-2.52	16.16	<=34.77	Pass
		25	0	20.74	-2.52	16.07	<=34.77	Pass
	713.5	1	0	21.62	-2.52	16.95	<=34.77	Pass
			13	21.78	-2.52	17.11	<=34.77	Pass
			24	21.70	-2.52	17.03	<=34.77	Pass
		12	0	20.71	-2.52	16.04	<=34.77	Pass
			6	20.76	-2.52	16.09	<=34.77	Pass
			13	20.67	-2.52	16.00	<=34.77	Pass
		25	0	20.74	-2.52	16.07	<=34.77	Pass
16QAM	701.5	1	0	20.62	-2.52	15.95	<=34.77	Pass
			13	20.80	-2.52	16.13	<=34.77	Pass
			24	20.80	-2.52	16.13	<=34.77	Pass
		12	0	19.71	-2.52	15.04	<=34.77	Pass
			6	19.65	-2.52	14.98	<=34.77	Pass
			13	19.62	-2.52	14.95	<=34.77	Pass
		25	0	19.59	-2.52	14.92	<=34.77	Pass
	707.5	1	0	20.39	-2.52	15.72	<=34.77	Pass
			13	20.59	-2.52	15.92	<=34.77	Pass
			24	20.52	-2.52	15.85	<=34.77	Pass
		12	0	19.66	-2.52	14.99	<=34.77	Pass
			6	19.77	-2.52	15.10	<=34.77	Pass
			13	19.79	-2.52	15.12	<=34.77	Pass
		25	0	19.76	-2.52	15.09	<=34.77	Pass
	713.5	1	0	20.72	-2.52	16.05	<=34.77	Pass
			13	20.87	-2.52	16.20	<=34.77	Pass
			24	20.77	-2.52	16.10	<=34.77	Pass
		12	0	19.77	-2.52	15.10	<=34.77	Pass
6			19.78	-2.52	15.11	<=34.77	Pass	
13			19.69	-2.52	15.02	<=34.77	Pass	
25		0	19.75	-2.52	15.08	<=34.77	Pass	
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.4 B12_10MHz_ERP

1.4.1 Test Result

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	21.53	-2.52	16.86	<=34.77	Pass
			25	21.83	-2.52	17.16	<=34.77	Pass
			49	21.80	-2.52	17.13	<=34.77	Pass
		25	0	20.75	-2.52	16.08	<=34.77	Pass
			13	20.64	-2.52	15.97	<=34.77	Pass
			25	20.78	-2.52	16.11	<=34.77	Pass
	50	0	20.76	-2.52	16.09	<=34.77	Pass	
	707.5	1	0	21.55	-2.52	16.88	<=34.77	Pass
			25	21.81	-2.52	17.14	<=34.77	Pass
			49	21.70	-2.52	17.03	<=34.77	Pass
		25	0	20.66	-2.52	15.99	<=34.77	Pass
			13	20.74	-2.52	16.07	<=34.77	Pass
			25	20.84	-2.52	16.17	<=34.77	Pass
	50	0	20.78	-2.52	16.11	<=34.77	Pass	
	711	1	0	21.72	-2.52	17.05	<=34.77	Pass
			25	21.91	-2.52	17.24	<=34.77	Pass
			49	21.84	-2.52	17.17	<=34.77	Pass
		25	0	20.67	-2.52	16.00	<=34.77	Pass
			13	20.83	-2.52	16.16	<=34.77	Pass
			25	20.79	-2.52	16.12	<=34.77	Pass
	50	0	20.71	-2.52	16.04	<=34.77	Pass	
	16QAM	704	1	0	20.50	-2.52	15.83	<=34.77
25				20.77	-2.52	16.10	<=34.77	Pass
49				20.73	-2.52	16.06	<=34.77	Pass
25			0	19.82	-2.52	15.15	<=34.77	Pass
			13	19.74	-2.52	15.07	<=34.77	Pass
			25	19.85	-2.52	15.18	<=34.77	Pass
50		0	19.78	-2.52	15.11	<=34.77	Pass	
707.5		1	0	20.68	-2.52	16.01	<=34.77	Pass
			25	20.96	-2.52	16.29	<=34.77	Pass
			49	20.85	-2.52	16.18	<=34.77	Pass
		25	0	19.68	-2.52	15.01	<=34.77	Pass
			13	19.79	-2.52	15.12	<=34.77	Pass
			25	19.88	-2.52	15.21	<=34.77	Pass
50		0	19.85	-2.52	15.18	<=34.77	Pass	
711		1	0	20.85	-2.52	16.18	<=34.77	Pass
			25	21.01	-2.52	16.34	<=34.77	Pass
			49	20.97	-2.52	16.30	<=34.77	Pass
		25	0	19.68	-2.52	15.01	<=34.77	Pass
	13		19.83	-2.52	15.16	<=34.77	Pass	
	25		19.79	-2.52	15.12	<=34.77	Pass	
50	0	19.73	-2.52	15.06	<=34.77	Pass		
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 B12_1.4MHz

2.1.1 Test Result

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	16.923	0.0242	-2.5 to 2.5	Pass
					3.85	-2.618	-0.0037	-2.5 to 2.5	Pass
					4.43	-7.124	-0.0102	-2.5 to 2.5	Pass
				-30	3.85	-7.782	-0.0111	-2.5 to 2.5	Pass
				-20	3.85	-0.572	-0.0008	-2.5 to 2.5	Pass
				-10	3.85	-2.375	-0.0034	-2.5 to 2.5	Pass
				0	3.85	-8.540	-0.0122	-2.5 to 2.5	Pass
				10	3.85	-6.824	-0.0098	-2.5 to 2.5	Pass
				30	3.85	-2.289	-0.0033	-2.5 to 2.5	Pass
				40	3.85	-9.313	-0.0133	-2.5 to 2.5	Pass
				50	3.85	-6.466	-0.0092	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	-15.993	-0.0226	-2.5 to 2.5	Pass
					3.85	-1.688	-0.0024	-2.5 to 2.5	Pass
					4.43	-8.211	-0.0116	-2.5 to 2.5	Pass
				-30	3.85	-6.437	-0.0091	-2.5 to 2.5	Pass
				-20	3.85	-7.110	-0.0100	-2.5 to 2.5	Pass
				-10	3.85	-5.536	-0.0078	-2.5 to 2.5	Pass
				0	3.85	-5.851	-0.0083	-2.5 to 2.5	Pass
				10	3.85	-7.753	-0.0110	-2.5 to 2.5	Pass
				30	3.85	-5.722	-0.0081	-2.5 to 2.5	Pass
				40	3.85	-8.626	-0.0122	-2.5 to 2.5	Pass
				50	3.85	-4.463	-0.0063	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	-4.835	-0.0068	-2.5 to 2.5	Pass
					3.85	-3.018	-0.0042	-2.5 to 2.5	Pass
					4.43	-4.864	-0.0068	-2.5 to 2.5	Pass
				-30	3.85	-8.869	-0.0124	-2.5 to 2.5	Pass
				-20	3.85	0.558	0.0008	-2.5 to 2.5	Pass
				-10	3.85	-4.334	-0.0061	-2.5 to 2.5	Pass
				0	3.85	-1.087	-0.0015	-2.5 to 2.5	Pass
				10	3.85	-2.546	-0.0036	-2.5 to 2.5	Pass
				30	3.85	-5.665	-0.0079	-2.5 to 2.5	Pass
				40	3.85	-3.247	-0.0045	-2.5 to 2.5	Pass
				50	3.85	-9.227	-0.0129	-2.5 to 2.5	Pass
16QAM	699.7	6	0	20	3.27	-3.204	-0.0046	-2.5 to 2.5	Pass
					3.85	-6.051	-0.0086	-2.5 to 2.5	Pass
					4.43	-9.456	-0.0135	-2.5 to 2.5	Pass
				-30	3.85	-9.356	-0.0134	-2.5 to 2.5	Pass
				-20	3.85	-7.968	-0.0114	-2.5 to 2.5	Pass
				-10	3.85	-5.293	-0.0076	-2.5 to 2.5	Pass
				0	3.85	-2.832	-0.0040	-2.5 to 2.5	Pass
				10	3.85	1.302	0.0019	-2.5 to 2.5	Pass
				30	3.85	0.172	0.0002	-2.5 to 2.5	Pass
				40	3.85	-4.950	-0.0071	-2.5 to 2.5	Pass
				50	3.85	-2.990	-0.0043	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	-6.938	-0.0098	-2.5 to 2.5	Pass
					3.85	-4.735	-0.0067	-2.5 to 2.5	Pass

					4.43	-7.167	-0.0101	-2.5 to 2.5	Pass
				-30	3.85	-4.635	-0.0066	-2.5 to 2.5	Pass
				-20	3.85	-4.249	-0.0060	-2.5 to 2.5	Pass
				-10	3.85	-3.161	-0.0045	-2.5 to 2.5	Pass
				0	3.85	-4.048	-0.0057	-2.5 to 2.5	Pass
				10	3.85	-2.775	-0.0039	-2.5 to 2.5	Pass
				30	3.85	-4.048	-0.0057	-2.5 to 2.5	Pass
				40	3.85	-6.194	-0.0088	-2.5 to 2.5	Pass
				50	3.85	-8.211	-0.0116	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	-5.951	-0.0083	-2.5 to 2.5	Pass
					3.85	-7.195	-0.0101	-2.5 to 2.5	Pass
					4.43	-2.131	-0.0030	-2.5 to 2.5	Pass
				-30	3.85	-3.734	-0.0052	-2.5 to 2.5	Pass
				-20	3.85	-10.257	-0.0143	-2.5 to 2.5	Pass
				-10	3.85	-6.537	-0.0091	-2.5 to 2.5	Pass
				0	3.85	-9.584	-0.0134	-2.5 to 2.5	Pass
				10	3.85	-5.651	-0.0079	-2.5 to 2.5	Pass
				30	3.85	-8.826	-0.0123	-2.5 to 2.5	Pass
				40	3.85	-6.022	-0.0084	-2.5 to 2.5	Pass
				50	3.85	-6.981	-0.0098	-2.5 to 2.5	Pass

2.2 B12_3MHz

2.2.1 Test Result

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	-11.272	-0.0161	-2.5 to 2.5	Pass
					3.85	-6.452	-0.0092	-2.5 to 2.5	Pass
					4.43	-8.726	-0.0125	-2.5 to 2.5	Pass
				-30	3.85	-7.768	-0.0111	-2.5 to 2.5	Pass
				-20	3.85	-2.189	-0.0031	-2.5 to 2.5	Pass
				-10	3.85	-10.328	-0.0147	-2.5 to 2.5	Pass
				0	3.85	-7.896	-0.0113	-2.5 to 2.5	Pass
				10	3.85	-6.495	-0.0093	-2.5 to 2.5	Pass
				30	3.85	-7.868	-0.0112	-2.5 to 2.5	Pass
				40	3.85	-9.456	-0.0135	-2.5 to 2.5	Pass
				50	3.85	-8.497	-0.0121	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	-4.606	-0.0065	-2.5 to 2.5	Pass
					3.85	-5.851	-0.0083	-2.5 to 2.5	Pass
					4.43	-2.718	-0.0038	-2.5 to 2.5	Pass
				-30	3.85	-4.091	-0.0058	-2.5 to 2.5	Pass
				-20	3.85	-9.885	-0.0140	-2.5 to 2.5	Pass
				-10	3.85	-9.041	-0.0128	-2.5 to 2.5	Pass
				0	3.85	-9.742	-0.0138	-2.5 to 2.5	Pass
				10	3.85	-5.665	-0.0080	-2.5 to 2.5	Pass
				30	3.85	-0.329	-0.0005	-2.5 to 2.5	Pass
				40	3.85	-5.236	-0.0074	-2.5 to 2.5	Pass
				50	3.85	-10.872	-0.0154	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-6.166	-0.0086	-2.5 to 2.5	Pass
					3.85	-6.638	-0.0093	-2.5 to 2.5	Pass
					4.43	-10.343	-0.0145	-2.5 to 2.5	Pass
				-30	3.85	-9.999	-0.0140	-2.5 to 2.5	Pass
				-20	3.85	-3.161	-0.0044	-2.5 to 2.5	Pass

16QAM	700.5	15	0	-10	3.85	-6.266	-0.0088	-2.5 to 2.5	Pass
				0	3.85	-7.124	-0.0100	-2.5 to 2.5	Pass
				10	3.85	-4.334	-0.0061	-2.5 to 2.5	Pass
				30	3.85	-11.358	-0.0159	-2.5 to 2.5	Pass
				40	3.85	-1.473	-0.0021	-2.5 to 2.5	Pass
				50	3.85	-4.420	-0.0062	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	-9.155	-0.0131	-2.5 to 2.5	Pass
					3.85	-8.197	-0.0117	-2.5 to 2.5	Pass
					4.43	-9.284	-0.0133	-2.5 to 2.5	Pass
				-30	3.85	-9.027	-0.0129	-2.5 to 2.5	Pass
				-20	3.85	-10.014	-0.0143	-2.5 to 2.5	Pass
				-10	3.85	-4.406	-0.0063	-2.5 to 2.5	Pass
				0	3.85	-4.406	-0.0063	-2.5 to 2.5	Pass
				10	3.85	-7.854	-0.0112	-2.5 to 2.5	Pass
				30	3.85	-5.822	-0.0083	-2.5 to 2.5	Pass
				40	3.85	-9.856	-0.0141	-2.5 to 2.5	Pass
				50	3.85	-10.142	-0.0145	-2.5 to 2.5	Pass
				20	3.27	-6.208	-0.0088	-2.5 to 2.5	Pass
					3.85	-3.948	-0.0056	-2.5 to 2.5	Pass
					4.43	-6.537	-0.0092	-2.5 to 2.5	Pass
				-30	3.85	-2.947	-0.0042	-2.5 to 2.5	Pass
				-20	3.85	-9.084	-0.0128	-2.5 to 2.5	Pass
	714.5	15	0	-10	3.85	-7.181	-0.0101	-2.5 to 2.5	Pass
				0	3.85	-5.665	-0.0080	-2.5 to 2.5	Pass
				10	3.85	-5.579	-0.0079	-2.5 to 2.5	Pass
				30	3.85	-6.824	-0.0096	-2.5 to 2.5	Pass
				40	3.85	-3.119	-0.0044	-2.5 to 2.5	Pass
				50	3.85	-1.144	-0.0016	-2.5 to 2.5	Pass
				20	3.27	-5.994	-0.0084	-2.5 to 2.5	Pass
					3.85	-4.249	-0.0059	-2.5 to 2.5	Pass
					4.43	-8.869	-0.0124	-2.5 to 2.5	Pass
				-30	3.85	-5.879	-0.0082	-2.5 to 2.5	Pass
				-20	3.85	-5.407	-0.0076	-2.5 to 2.5	Pass
				-10	3.85	-4.234	-0.0059	-2.5 to 2.5	Pass
				0	3.85	-6.895	-0.0097	-2.5 to 2.5	Pass
				10	3.85	-8.025	-0.0112	-2.5 to 2.5	Pass
				30	3.85	-9.141	-0.0128	-2.5 to 2.5	Pass
				40	3.85	-3.619	-0.0051	-2.5 to 2.5	Pass
				50	3.85	-6.480	-0.0091	-2.5 to 2.5	Pass

2.3 B12_5MHz

2.3.1 Test Result

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	-8.454	-0.0121	-2.5 to 2.5	Pass
					3.85	-8.454	-0.0121	-2.5 to 2.5	Pass
					4.43	-2.632	-0.0038	-2.5 to 2.5	Pass
				-30	3.85	-8.669	-0.0124	-2.5 to 2.5	Pass
				-20	3.85	-6.437	-0.0092	-2.5 to 2.5	Pass
				-10	3.85	-4.091	-0.0058	-2.5 to 2.5	Pass
				0	3.85	-4.120	-0.0059	-2.5 to 2.5	Pass
				10	3.85	-9.084	-0.0129	-2.5 to 2.5	Pass

	707.5	25	0	30	3.85	-2.947	-0.0042	-2.5 to 2.5	Pass
				40	3.85	-8.025	-0.0114	-2.5 to 2.5	Pass
				50	3.85	-8.984	-0.0128	-2.5 to 2.5	Pass
				20	3.27	-2.832	-0.0040	-2.5 to 2.5	Pass
					3.85	-8.082	-0.0114	-2.5 to 2.5	Pass
					4.43	-8.669	-0.0123	-2.5 to 2.5	Pass
				-30	3.85	-5.136	-0.0073	-2.5 to 2.5	Pass
				-20	3.85	-2.718	-0.0038	-2.5 to 2.5	Pass
				-10	3.85	-8.011	-0.0113	-2.5 to 2.5	Pass
				0	3.85	-3.719	-0.0053	-2.5 to 2.5	Pass
				10	3.85	-5.450	-0.0077	-2.5 to 2.5	Pass
				30	3.85	-4.735	-0.0067	-2.5 to 2.5	Pass
				40	3.85	-5.164	-0.0073	-2.5 to 2.5	Pass
				50	3.85	-4.120	-0.0058	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-5.422	-0.0076	-2.5 to 2.5	Pass
					3.85	-8.726	-0.0122	-2.5 to 2.5	Pass
					4.43	-5.794	-0.0081	-2.5 to 2.5	Pass
				-30	3.85	-7.725	-0.0108	-2.5 to 2.5	Pass
				-20	3.85	-5.794	-0.0081	-2.5 to 2.5	Pass
				-10	3.85	-5.436	-0.0076	-2.5 to 2.5	Pass
				0	3.85	-6.008	-0.0084	-2.5 to 2.5	Pass
				10	3.85	-4.907	-0.0069	-2.5 to 2.5	Pass
				30	3.85	-3.262	-0.0046	-2.5 to 2.5	Pass
				40	3.85	-4.964	-0.0070	-2.5 to 2.5	Pass
				50	3.85	-5.093	-0.0071	-2.5 to 2.5	Pass
16QAM	701.5	25	0	20	3.27	-7.038	-0.0100	-2.5 to 2.5	Pass
					3.85	-8.254	-0.0118	-2.5 to 2.5	Pass
					4.43	-6.080	-0.0087	-2.5 to 2.5	Pass
				-30	3.85	-9.584	-0.0137	-2.5 to 2.5	Pass
				-20	3.85	-7.296	-0.0104	-2.5 to 2.5	Pass
				-10	3.85	-4.807	-0.0069	-2.5 to 2.5	Pass
				0	3.85	-10.715	-0.0153	-2.5 to 2.5	Pass
				10	3.85	-7.296	-0.0104	-2.5 to 2.5	Pass
				30	3.85	-1.917	-0.0027	-2.5 to 2.5	Pass
				40	3.85	-8.554	-0.0122	-2.5 to 2.5	Pass
				50	3.85	-5.679	-0.0081	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-5.121	-0.0072	-2.5 to 2.5	Pass
					3.85	-8.283	-0.0117	-2.5 to 2.5	Pass
					4.43	-9.384	-0.0133	-2.5 to 2.5	Pass
				-30	3.85	-3.076	-0.0043	-2.5 to 2.5	Pass
				-20	3.85	-4.077	-0.0058	-2.5 to 2.5	Pass
				-10	3.85	-8.898	-0.0126	-2.5 to 2.5	Pass
				0	3.85	-4.692	-0.0066	-2.5 to 2.5	Pass
				10	3.85	-5.579	-0.0079	-2.5 to 2.5	Pass
				30	3.85	-4.563	-0.0064	-2.5 to 2.5	Pass
				40	3.85	-5.779	-0.0082	-2.5 to 2.5	Pass
				50	3.85	-8.082	-0.0114	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-7.710	-0.0108	-2.5 to 2.5	Pass
					3.85	-5.479	-0.0077	-2.5 to 2.5	Pass
					4.43	-8.154	-0.0114	-2.5 to 2.5	Pass
				-30	3.85	-6.981	-0.0098	-2.5 to 2.5	Pass
				-20	3.85	-9.813	-0.0138	-2.5 to 2.5	Pass
				-10	3.85	-7.081	-0.0099	-2.5 to 2.5	Pass
				0	3.85	-8.540	-0.0120	-2.5 to 2.5	Pass
				10	3.85	-4.578	-0.0064	-2.5 to 2.5	Pass
				30	3.85	-3.576	-0.0050	-2.5 to 2.5	Pass
				40	3.85	-6.123	-0.0086	-2.5 to 2.5	Pass

				50	3.85	-7.782	-0.0109	-2.5 to 2.5	Pass
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2.4 B12_10MHz

2.4.1 Test Result

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	-5.364	-0.0076	-2.5 to 2.5	Pass
					3.85	-6.752	-0.0096	-2.5 to 2.5	Pass
					4.43	-5.822	-0.0083	-2.5 to 2.5	Pass
				-30	3.85	-5.465	-0.0078	-2.5 to 2.5	Pass
				-20	3.85	-5.808	-0.0083	-2.5 to 2.5	Pass
				-10	3.85	-6.223	-0.0088	-2.5 to 2.5	Pass
				0	3.85	-3.576	-0.0051	-2.5 to 2.5	Pass
				10	3.85	-8.154	-0.0116	-2.5 to 2.5	Pass
				30	3.85	-6.037	-0.0086	-2.5 to 2.5	Pass
				40	3.85	-6.609	-0.0094	-2.5 to 2.5	Pass
				50	3.85	-4.935	-0.0070	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-1.059	-0.0015	-2.5 to 2.5	Pass
					3.85	-2.661	-0.0038	-2.5 to 2.5	Pass
					4.43	-5.350	-0.0076	-2.5 to 2.5	Pass
				-30	3.85	-3.791	-0.0054	-2.5 to 2.5	Pass
				-20	3.85	-4.821	-0.0068	-2.5 to 2.5	Pass
				-10	3.85	-4.120	-0.0058	-2.5 to 2.5	Pass
				0	3.85	-5.765	-0.0081	-2.5 to 2.5	Pass
				10	3.85	-7.396	-0.0105	-2.5 to 2.5	Pass
				30	3.85	-5.593	-0.0079	-2.5 to 2.5	Pass
				40	3.85	-4.392	-0.0062	-2.5 to 2.5	Pass
				50	3.85	-4.678	-0.0066	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-4.478	-0.0063	-2.5 to 2.5	Pass
					3.85	-10.028	-0.0141	-2.5 to 2.5	Pass
					4.43	-8.039	-0.0113	-2.5 to 2.5	Pass
				-30	3.85	-9.241	-0.0130	-2.5 to 2.5	Pass
				-20	3.85	-9.484	-0.0133	-2.5 to 2.5	Pass
				-10	3.85	-9.127	-0.0128	-2.5 to 2.5	Pass
				0	3.85	-4.907	-0.0069	-2.5 to 2.5	Pass
				10	3.85	-8.411	-0.0118	-2.5 to 2.5	Pass
				30	3.85	-8.039	-0.0113	-2.5 to 2.5	Pass
				40	3.85	-7.124	-0.0100	-2.5 to 2.5	Pass
				50	3.85	-7.954	-0.0112	-2.5 to 2.5	Pass
16QAM	704	50	0	20	3.27	-8.168	-0.0116	-2.5 to 2.5	Pass
					3.85	-5.608	-0.0080	-2.5 to 2.5	Pass
					4.43	-4.535	-0.0064	-2.5 to 2.5	Pass
				-30	3.85	-2.103	-0.0030	-2.5 to 2.5	Pass
				-20	3.85	-5.851	-0.0083	-2.5 to 2.5	Pass
				-10	3.85	-5.565	-0.0079	-2.5 to 2.5	Pass
				0	3.85	-7.739	-0.0110	-2.5 to 2.5	Pass
				10	3.85	-4.163	-0.0059	-2.5 to 2.5	Pass
				30	3.85	-3.963	-0.0056	-2.5 to 2.5	Pass
				40	3.85	-7.453	-0.0106	-2.5 to 2.5	Pass
				50	3.85	-7.911	-0.0112	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-6.452	-0.0091	-2.5 to 2.5	Pass
					3.85	-2.789	-0.0039	-2.5 to 2.5	Pass

					4.43	-7.238	-0.0102	-2.5 to 2.5	Pass
				-30	3.85	-3.991	-0.0056	-2.5 to 2.5	Pass
				-20	3.85	-6.351	-0.0090	-2.5 to 2.5	Pass
				-10	3.85	-5.107	-0.0072	-2.5 to 2.5	Pass
				0	3.85	-5.307	-0.0075	-2.5 to 2.5	Pass
				10	3.85	-6.781	-0.0096	-2.5 to 2.5	Pass
				30	3.85	-5.636	-0.0080	-2.5 to 2.5	Pass
				40	3.85	-3.290	-0.0047	-2.5 to 2.5	Pass
				50	3.85	-3.619	-0.0051	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-2.632	-0.0037	-2.5 to 2.5	Pass
					3.85	-4.663	-0.0066	-2.5 to 2.5	Pass
					4.43	-9.313	-0.0131	-2.5 to 2.5	Pass
				-30	3.85	-9.098	-0.0128	-2.5 to 2.5	Pass
				-20	3.85	-6.952	-0.0098	-2.5 to 2.5	Pass
				-10	3.85	-7.253	-0.0102	-2.5 to 2.5	Pass
				0	3.85	-7.482	-0.0105	-2.5 to 2.5	Pass
				10	3.85	-5.536	-0.0078	-2.5 to 2.5	Pass
				30	3.85	-8.712	-0.0123	-2.5 to 2.5	Pass
				40	3.85	-7.725	-0.0109	-2.5 to 2.5	Pass
				50	3.85	-5.164	-0.0073	-2.5 to 2.5	Pass

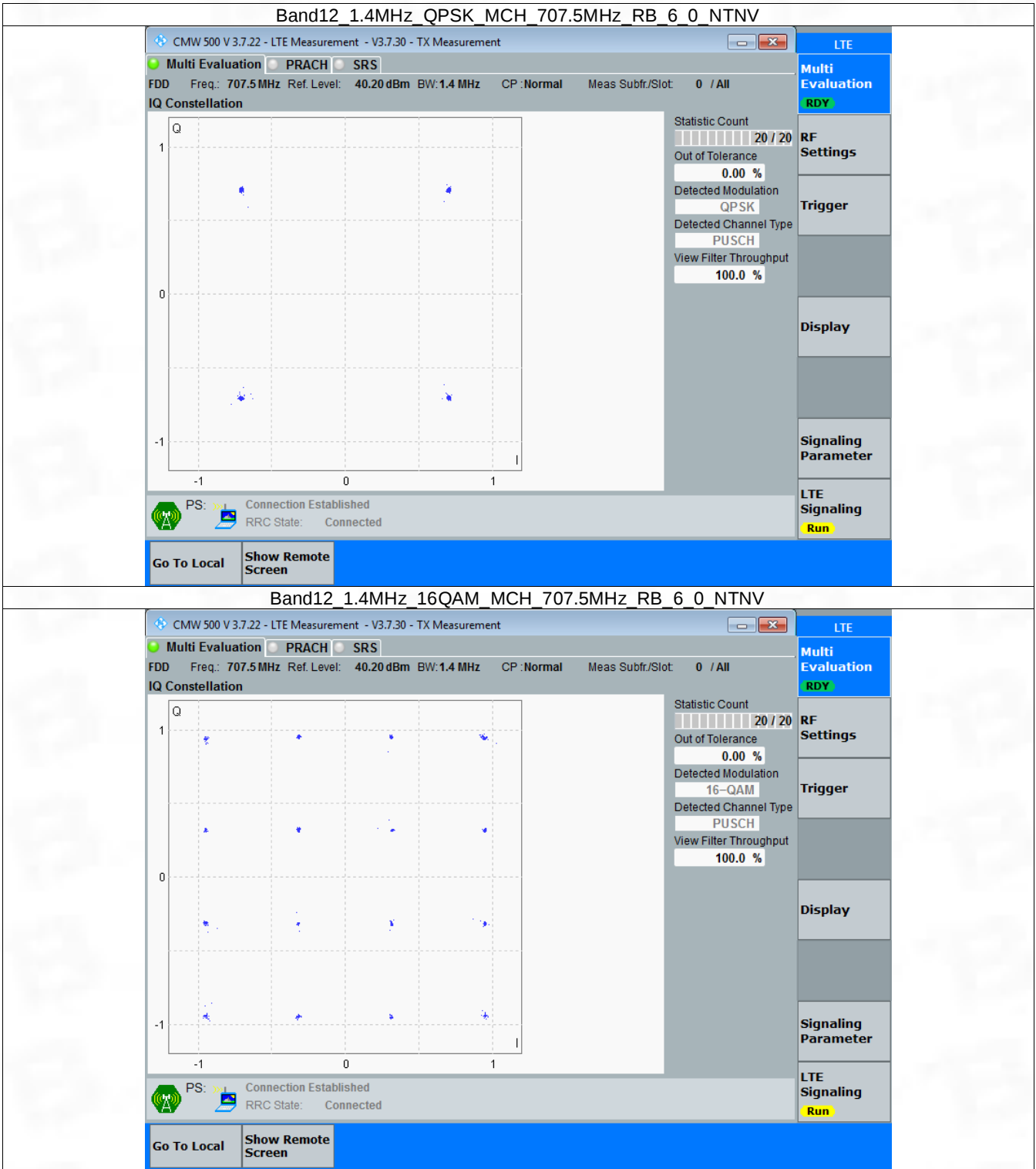
3. Modulation Characteristics

3.1 B12_1.4MHz

3.1.1 Test Result

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 Test Graph

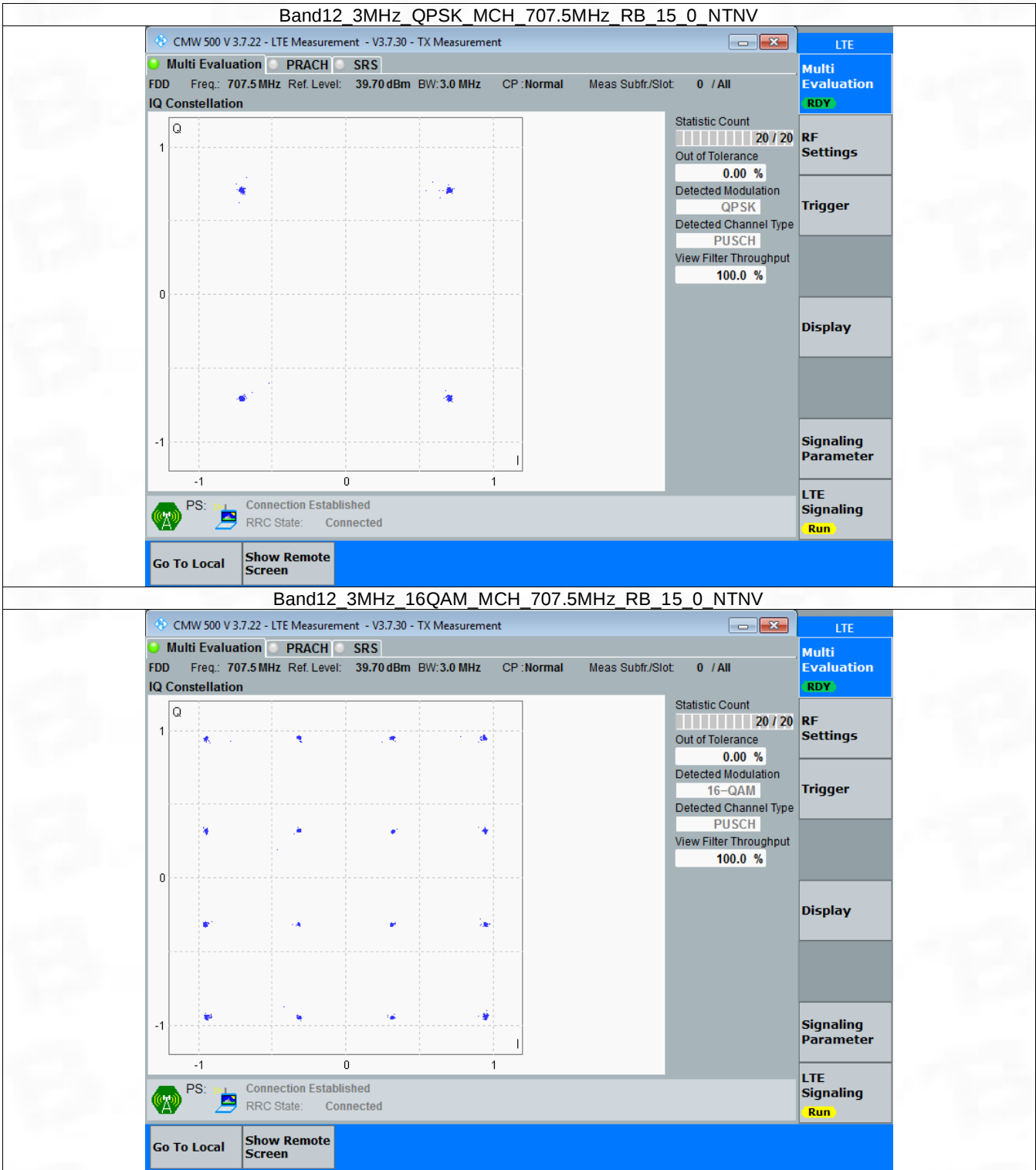


3.2 B12_3MHz

3.2.1 Test Result

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

3.2.2 Test Graph

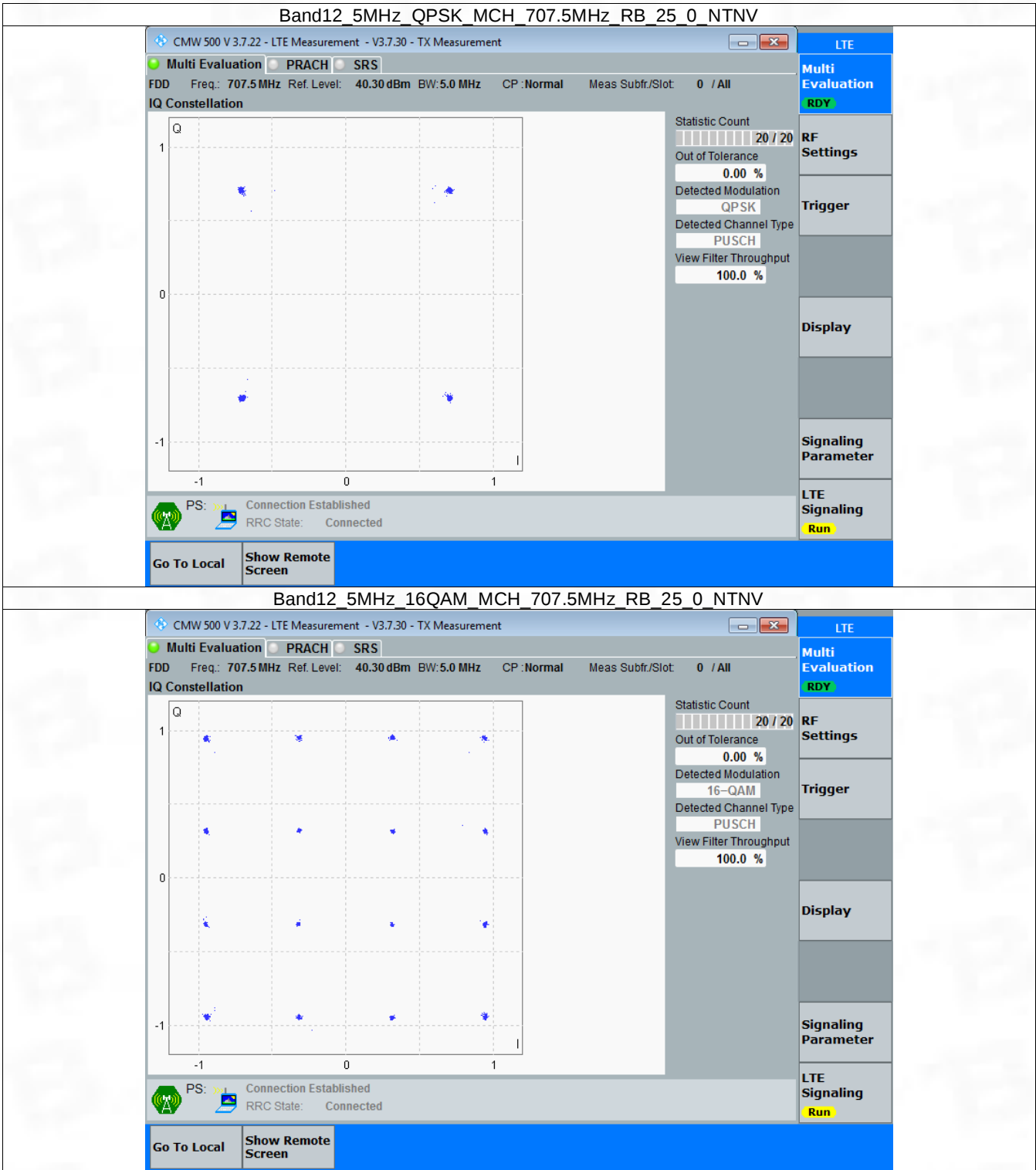


3.3 B12_5MHz

3.3.1 Test Result

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

3.3.2 Test Graph

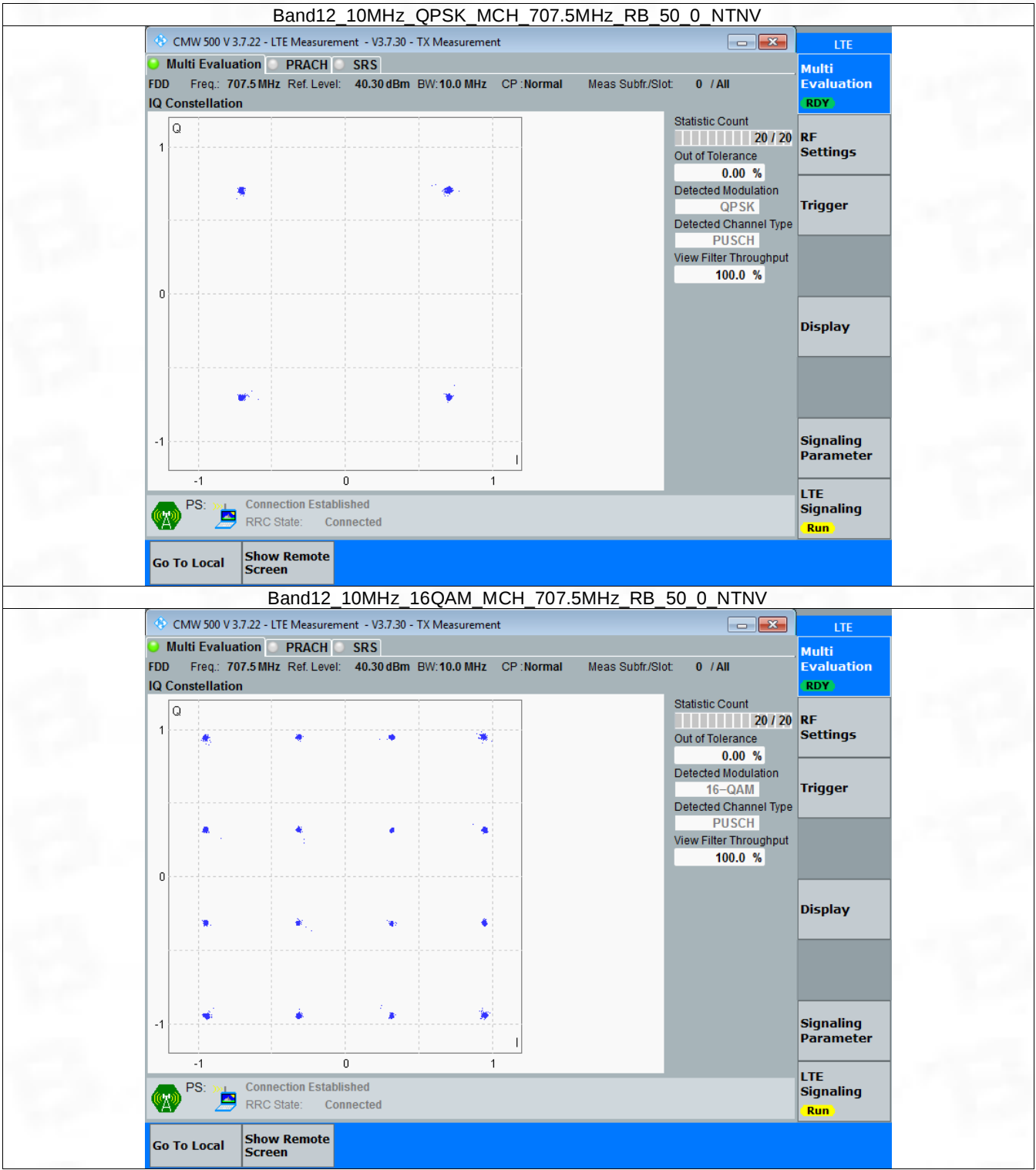


3.4 B12_10MHz

3.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTV						
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

3.4.2 Test Graph



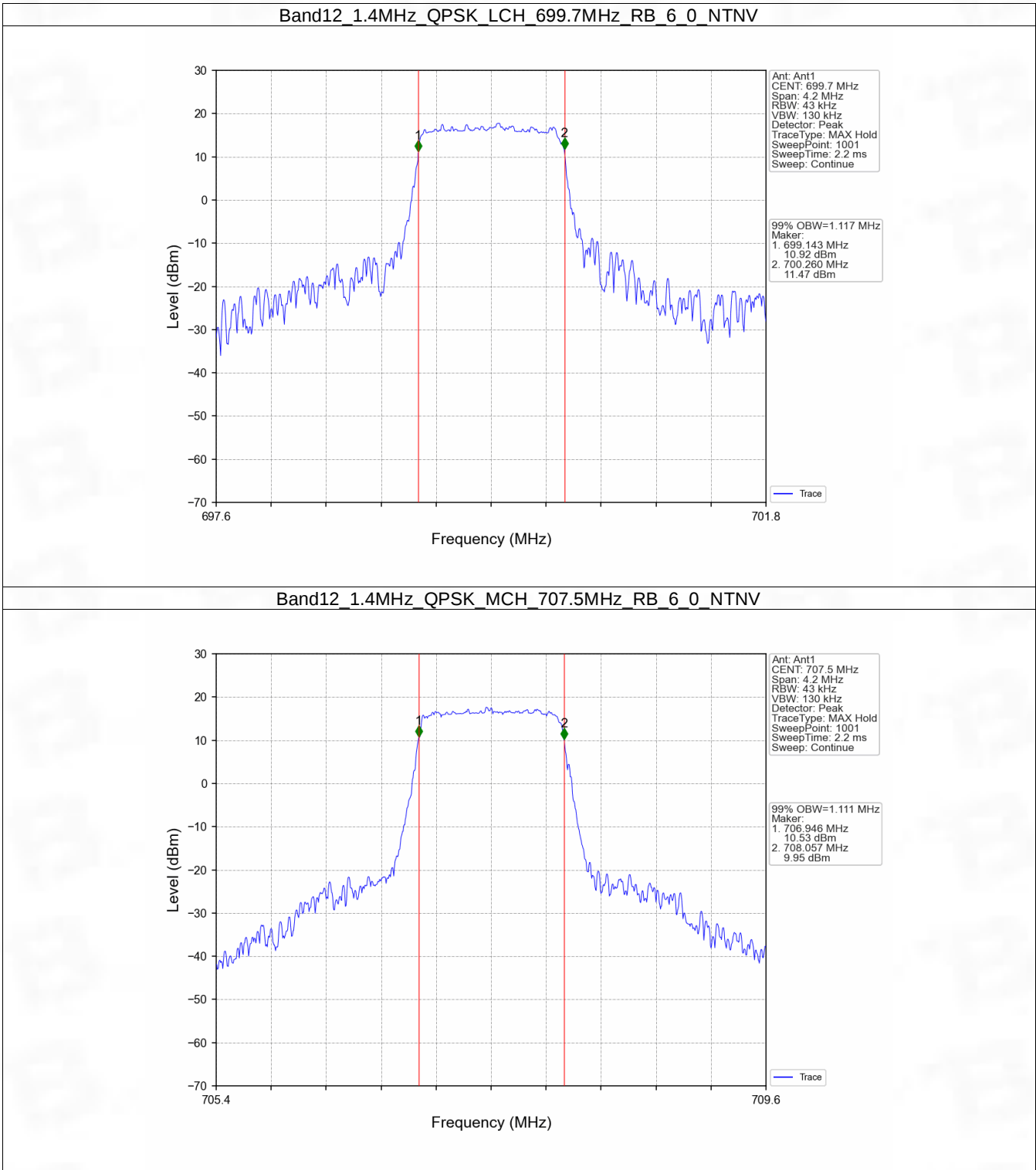
4. 99% & 26dB Bandwidth

4.1 Band12_OBW

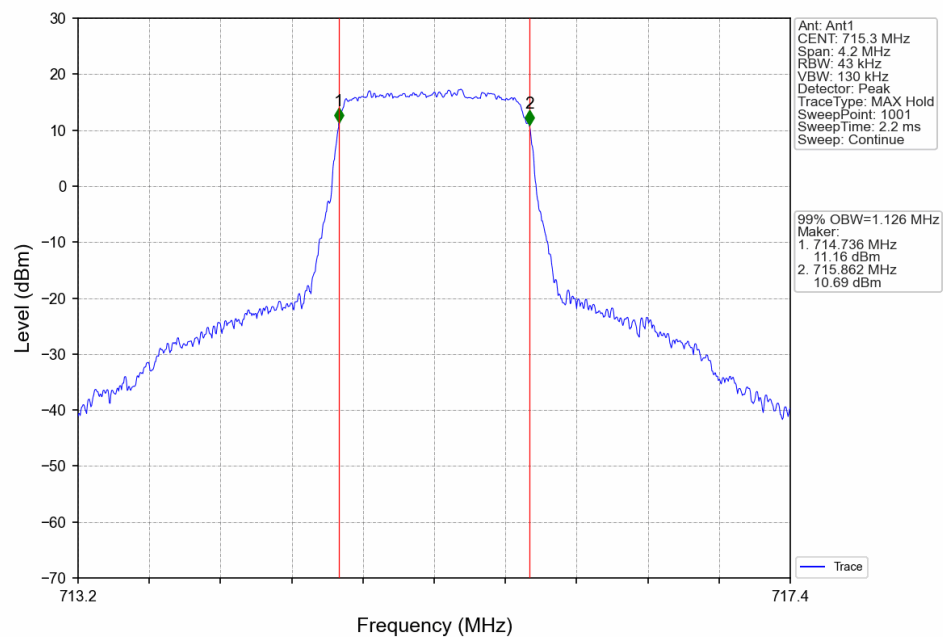
4.1.1 Test Result

Band: 12 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	699.7	6	0	1.117	Pass
		707.5	6	0	1.111	Pass
		715.3	6	0	1.126	Pass
	16QAM	699.7	6	0	1.108	Pass
		707.5	6	0	1.100	Pass
		715.3	6	0	1.105	Pass
3	QPSK	700.5	15	0	2.730	Pass
		707.5	15	0	2.719	Pass
		714.5	15	0	2.735	Pass
	16QAM	700.5	15	0	2.725	Pass
		707.5	15	0	2.725	Pass
		714.5	15	0	2.710	Pass
5	QPSK	701.5	25	0	4.579	Pass
		707.5	25	0	4.586	Pass
		713.5	25	0	4.569	Pass
	16QAM	701.5	25	0	4.600	Pass
		707.5	25	0	4.547	Pass
		713.5	25	0	4.564	Pass
10	QPSK	704	50	0	9.162	Pass
		707.5	50	0	9.047	Pass
		711	50	0	9.071	Pass
	16QAM	704	50	0	9.115	Pass
		707.5	50	0	9.064	Pass
		711	50	0	9.039	Pass

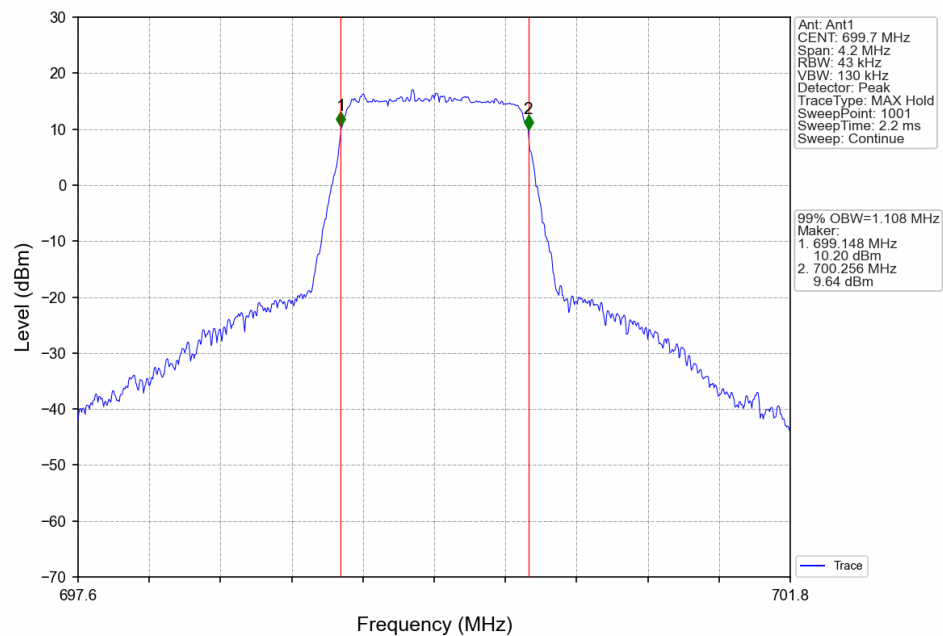
4.1.2 Test Graph

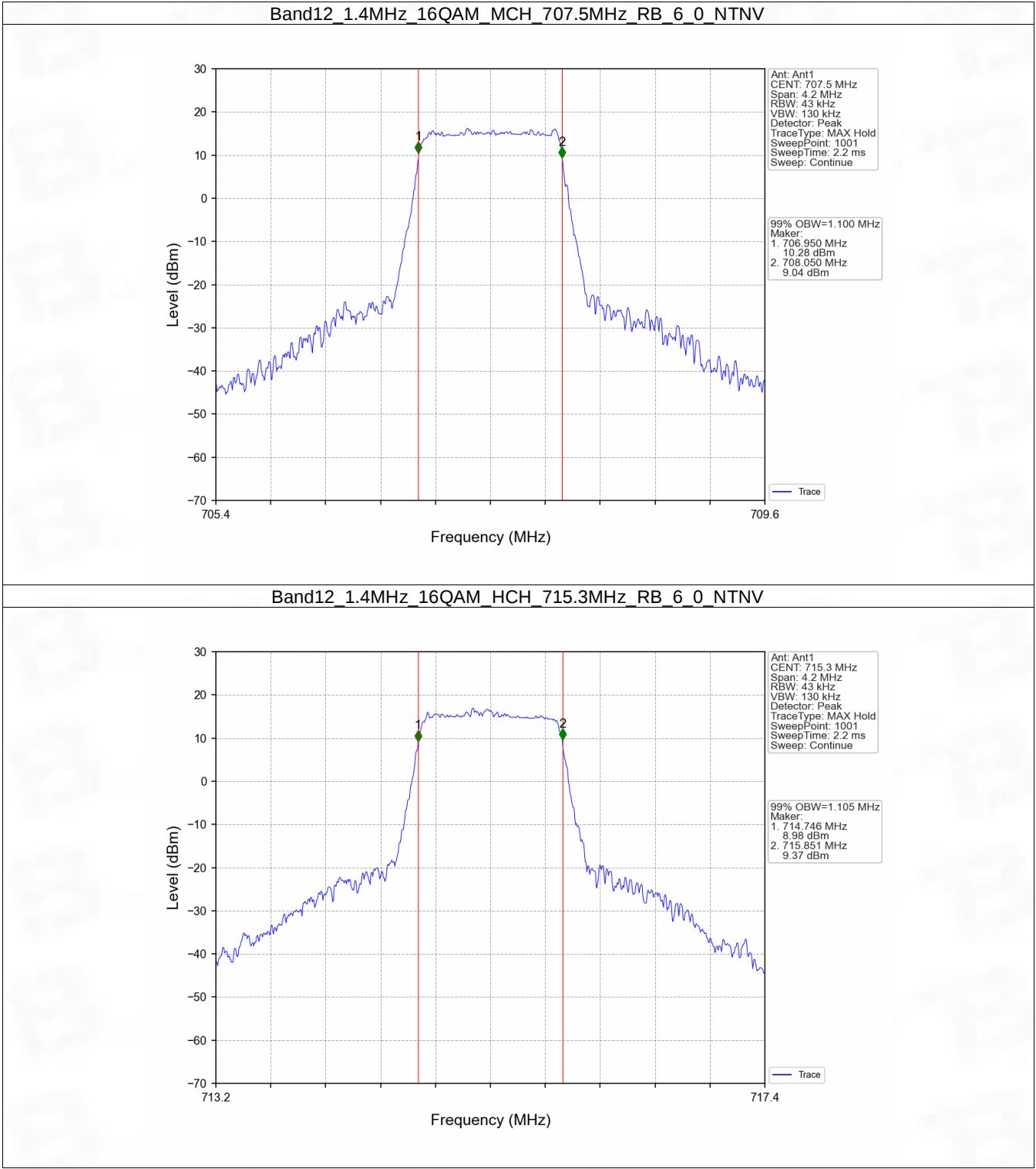


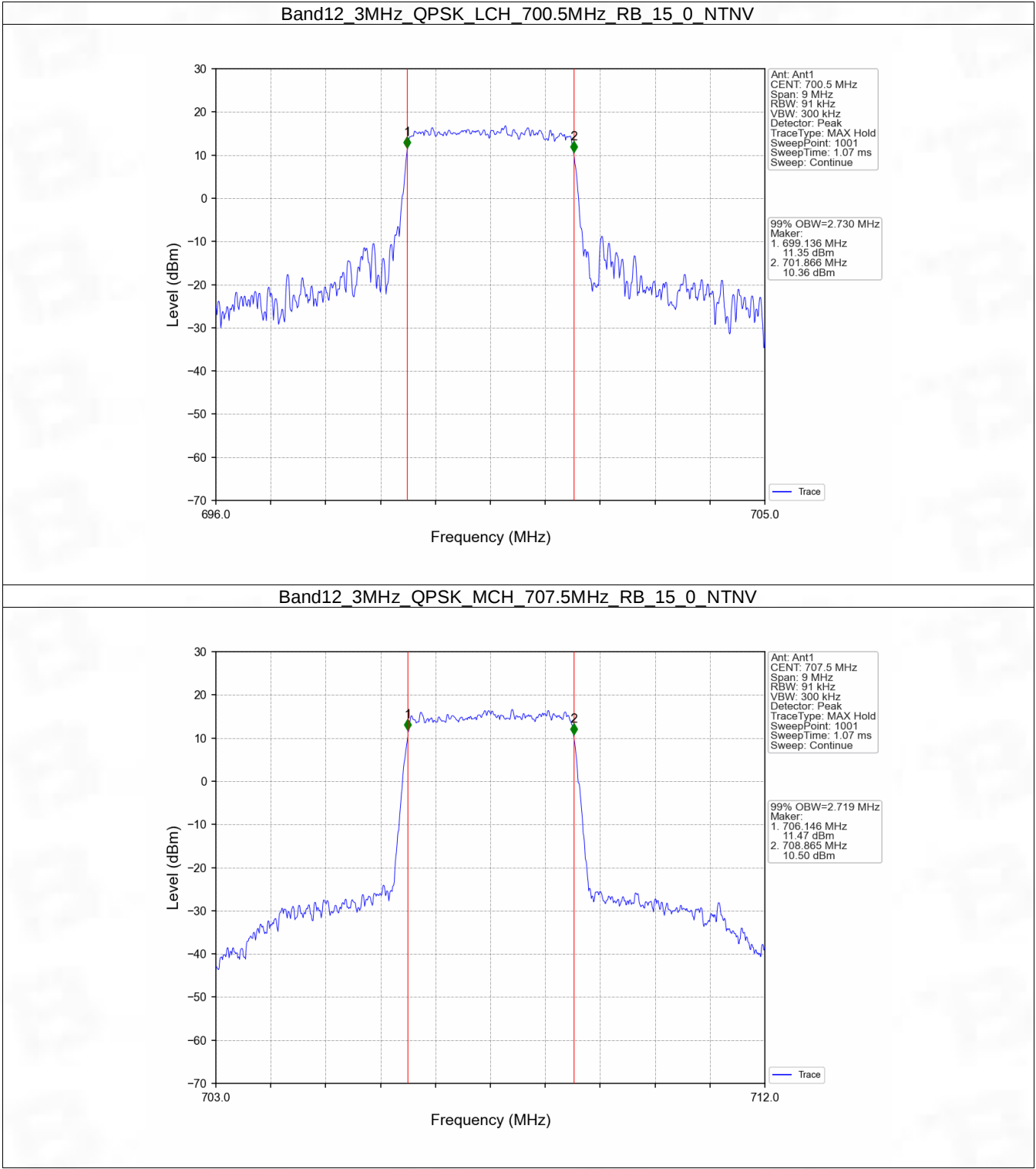
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV

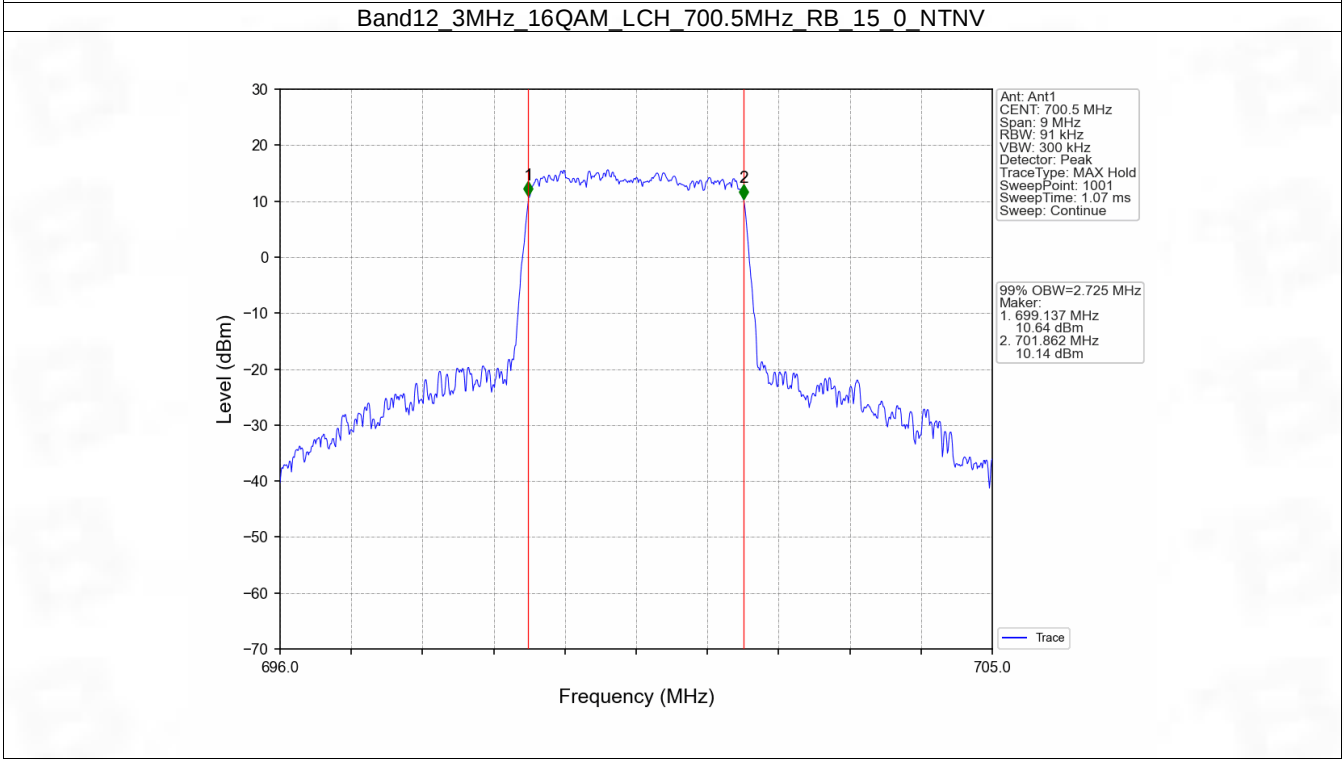
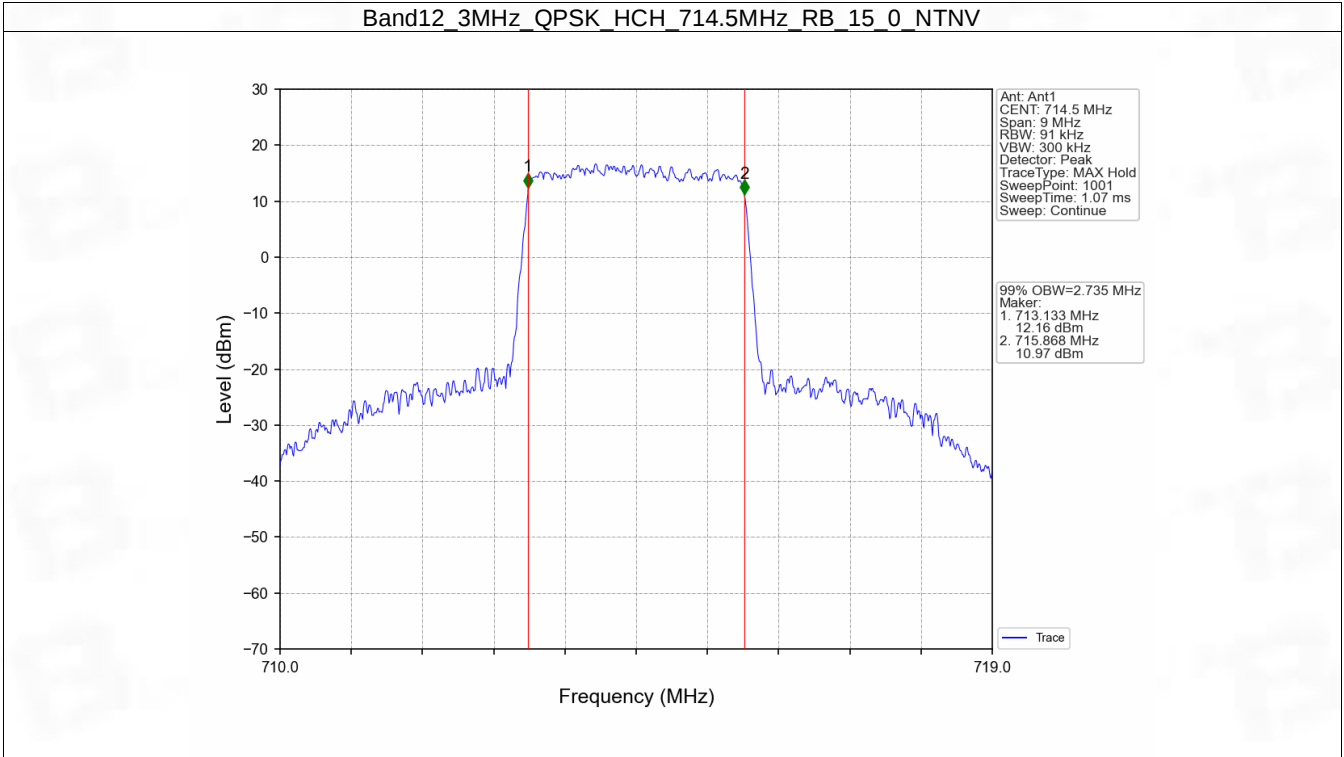


Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV

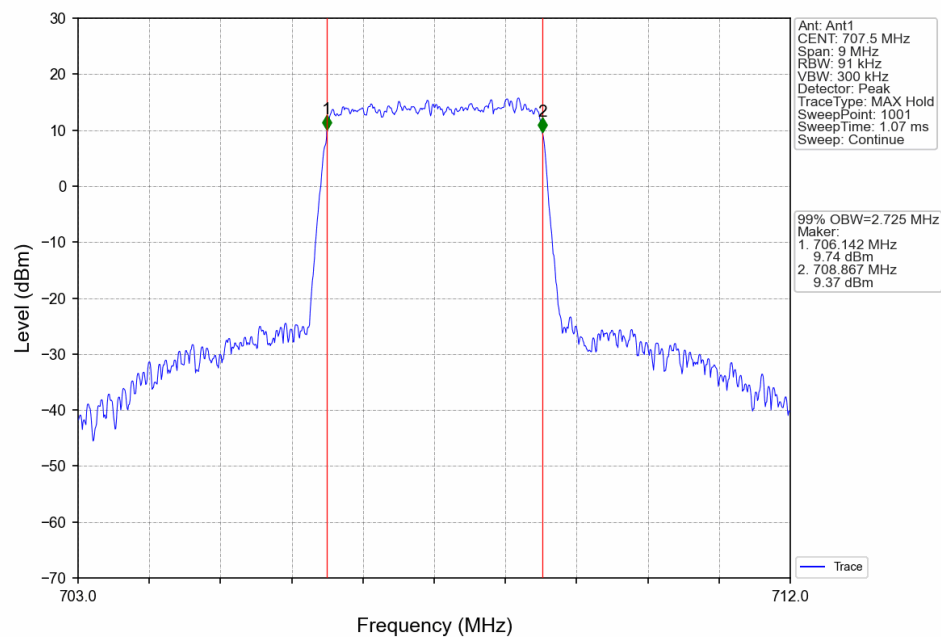




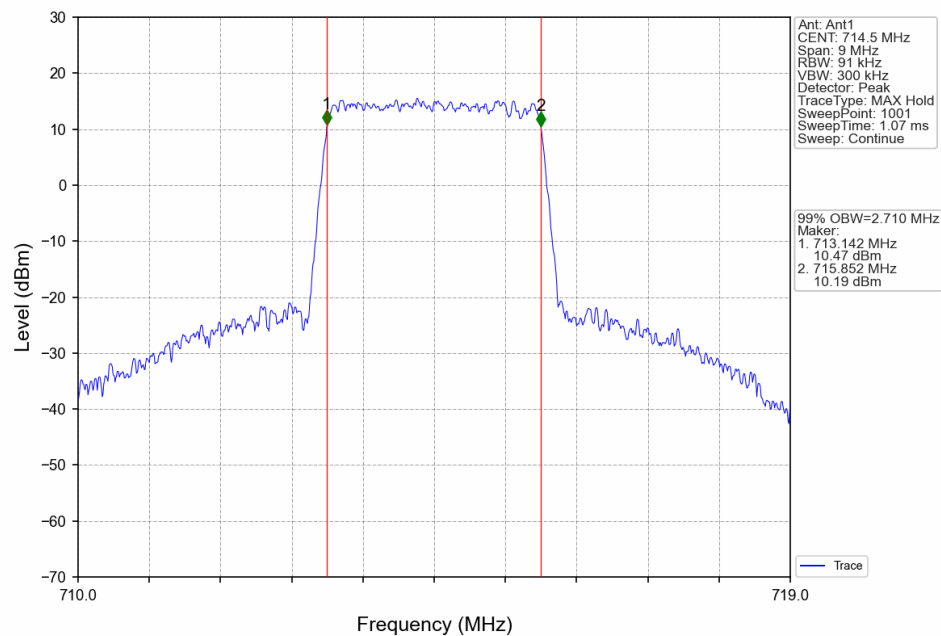


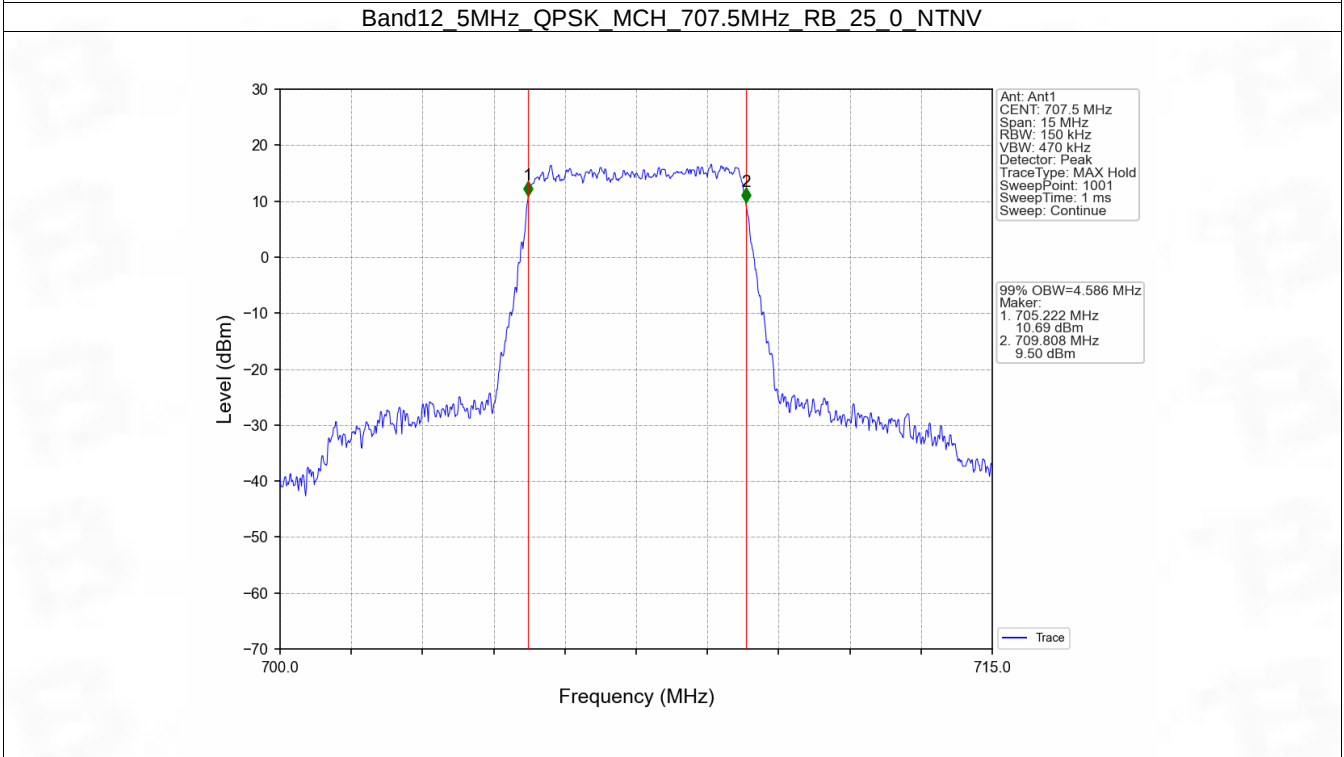
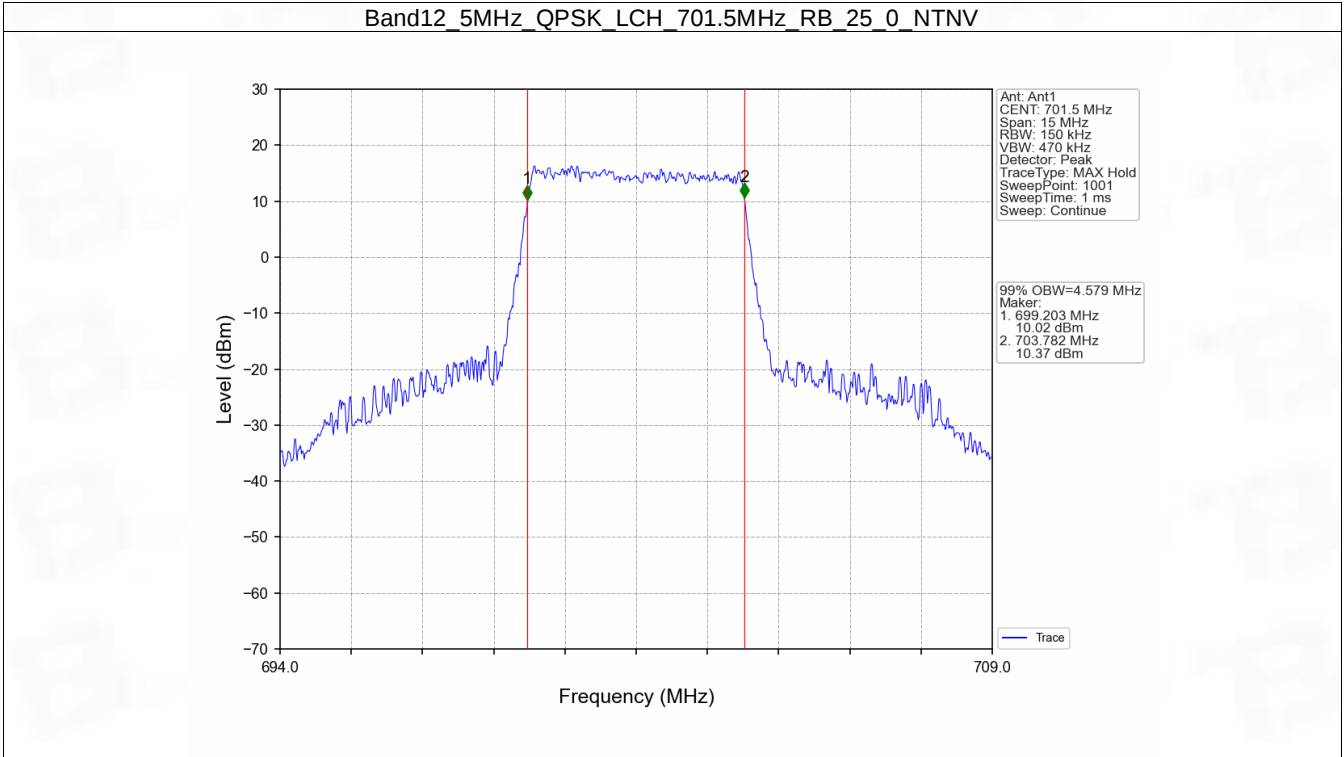


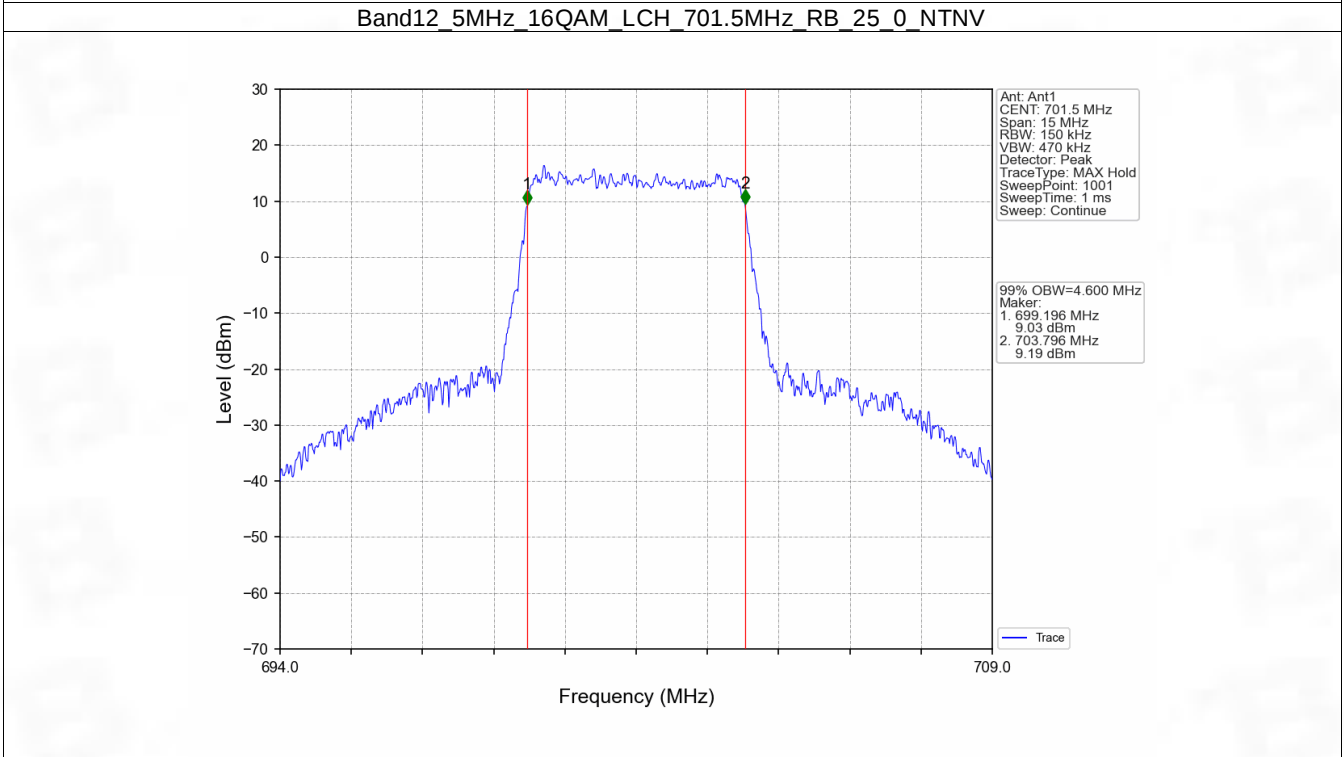
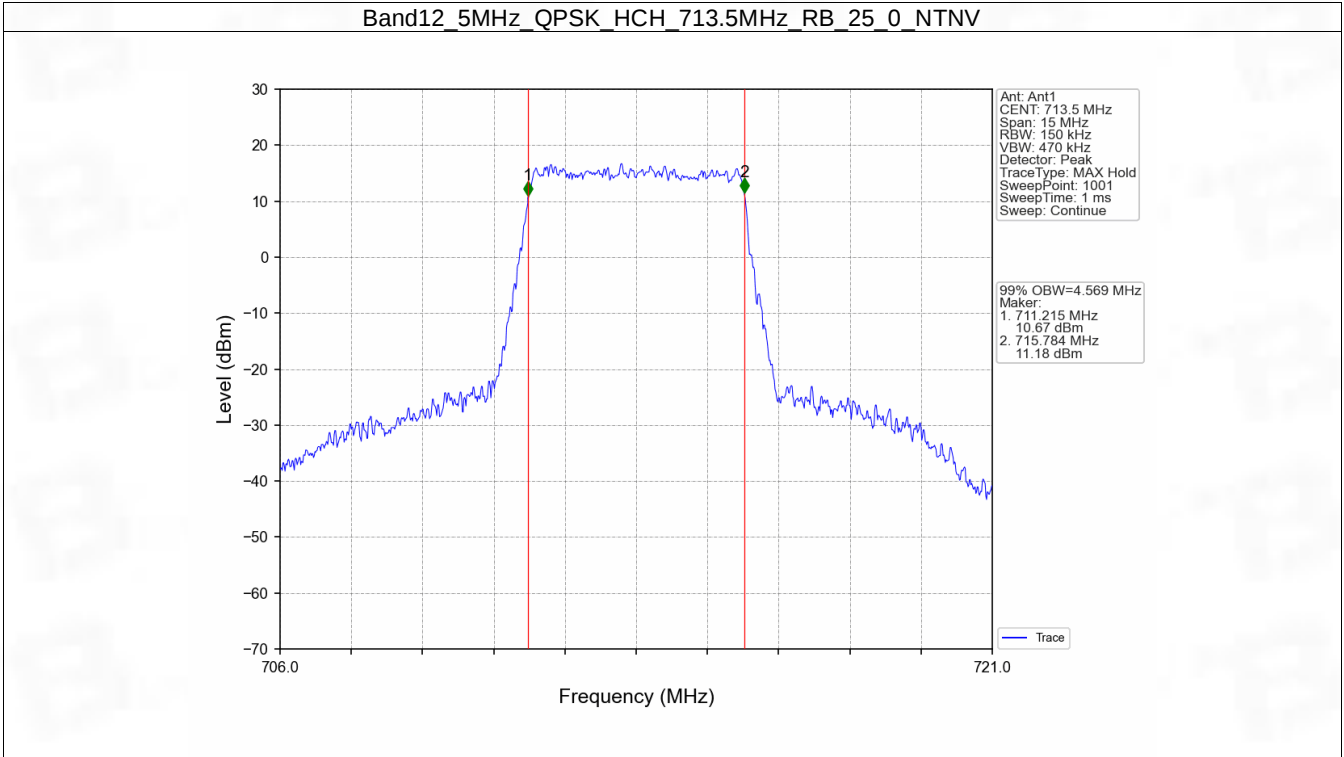
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



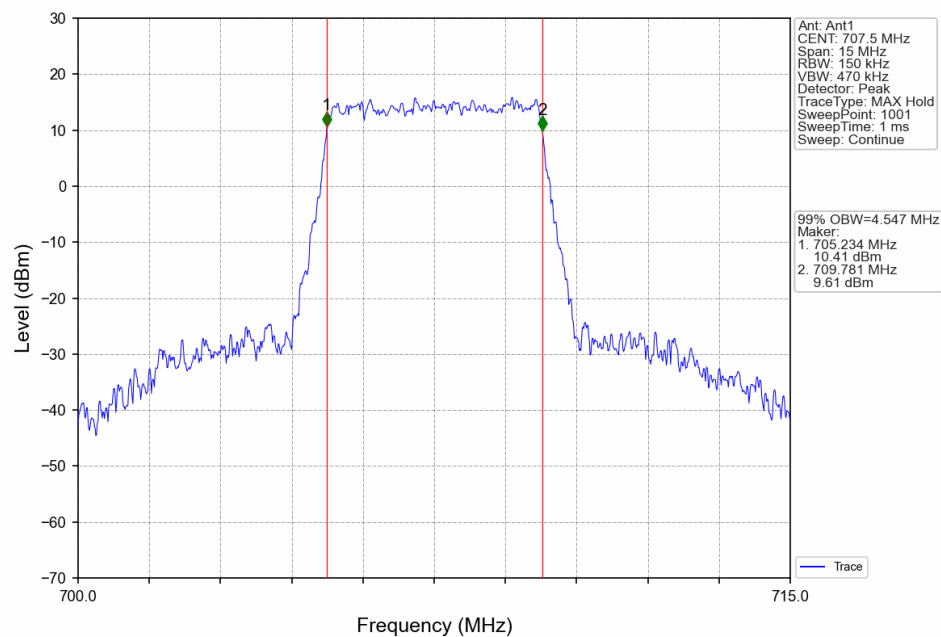
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



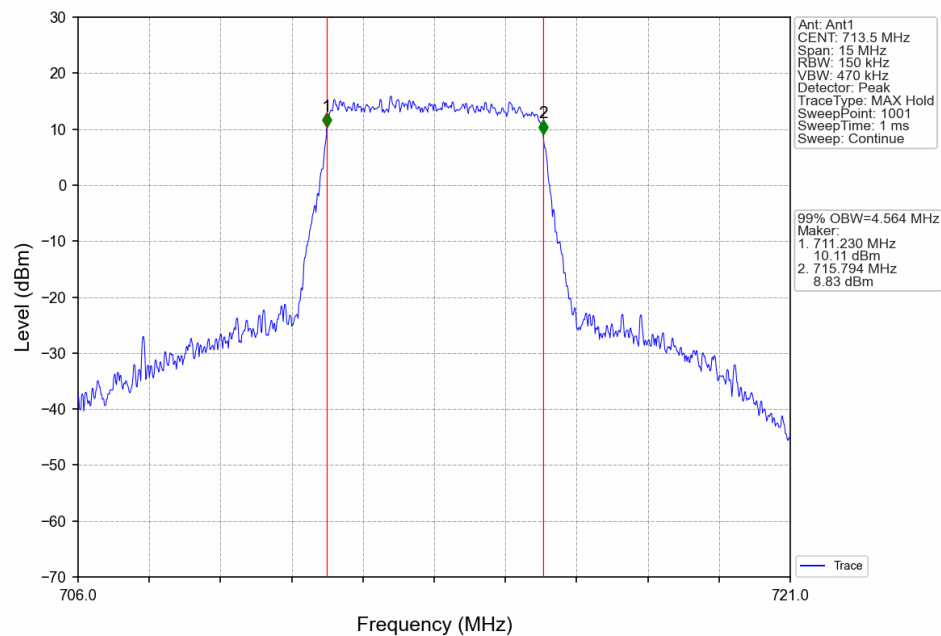


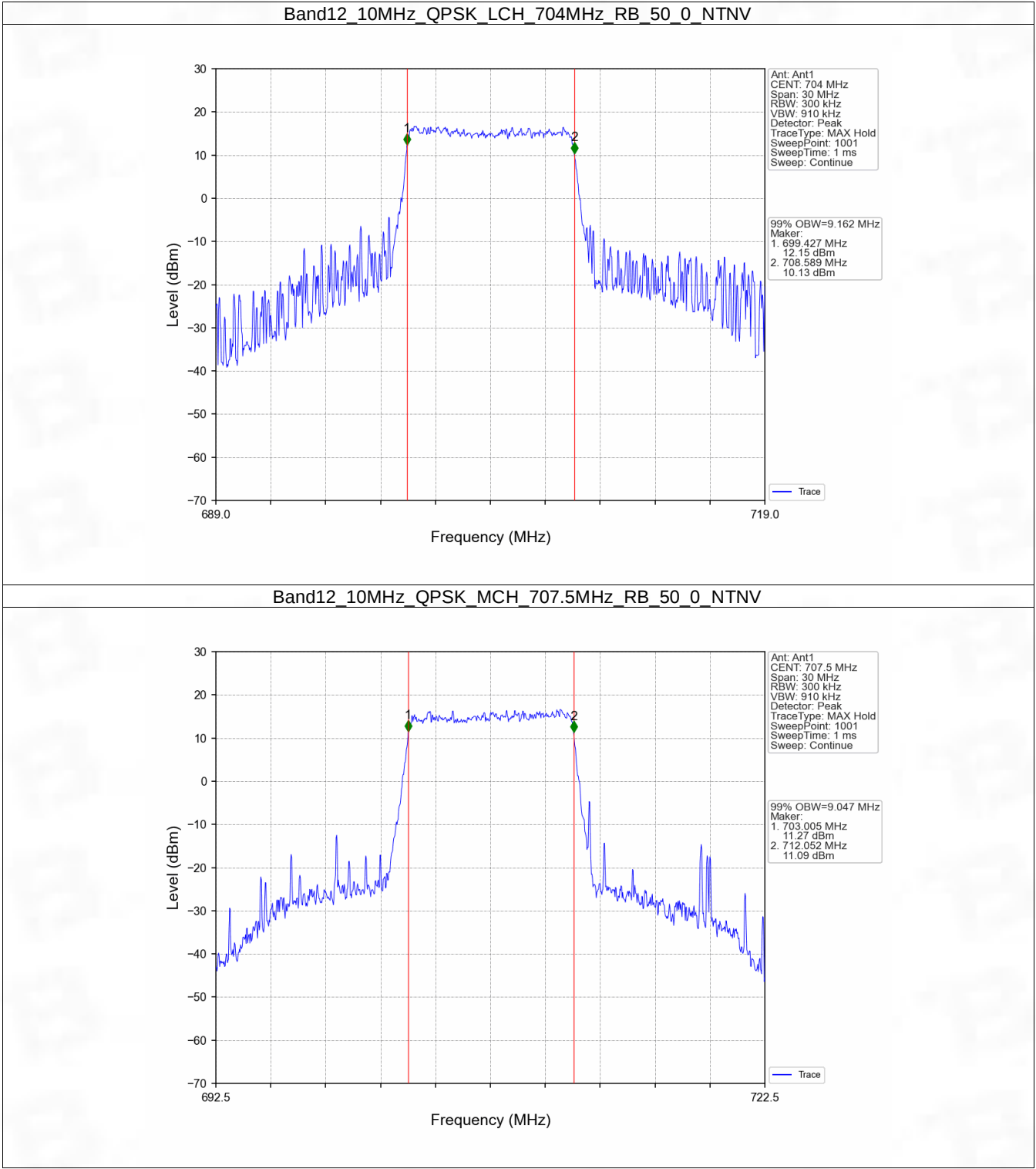


Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV

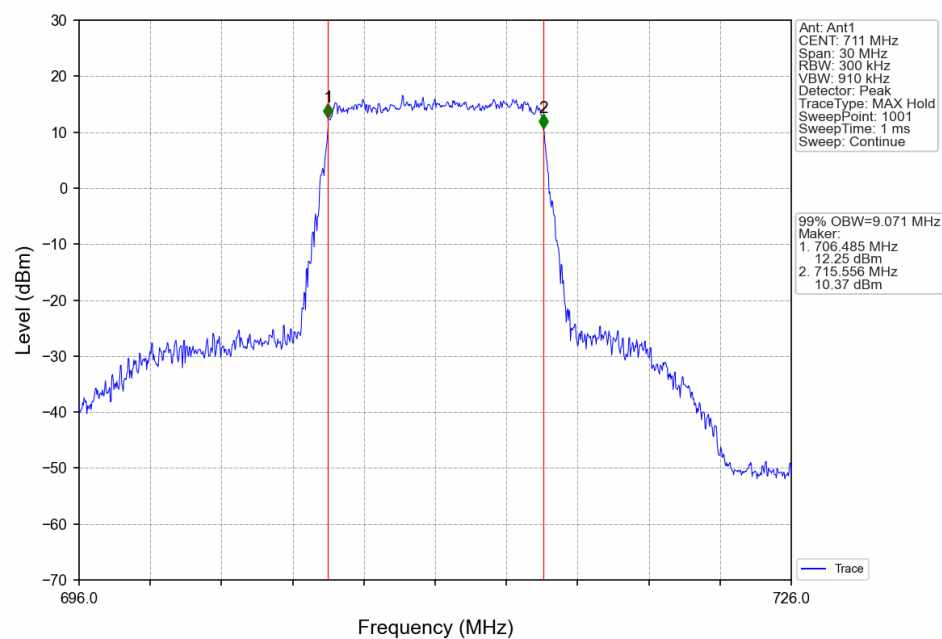


Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

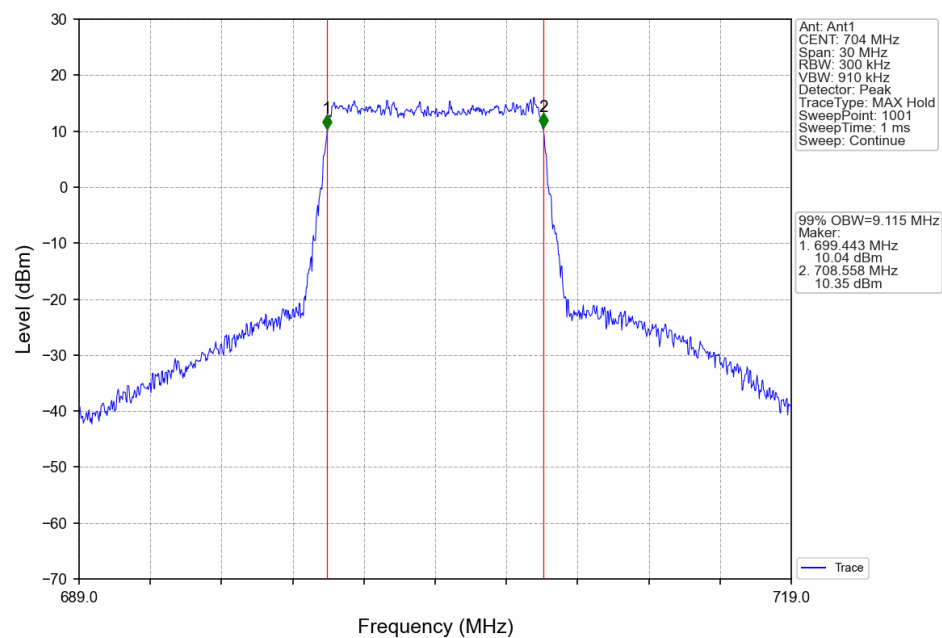


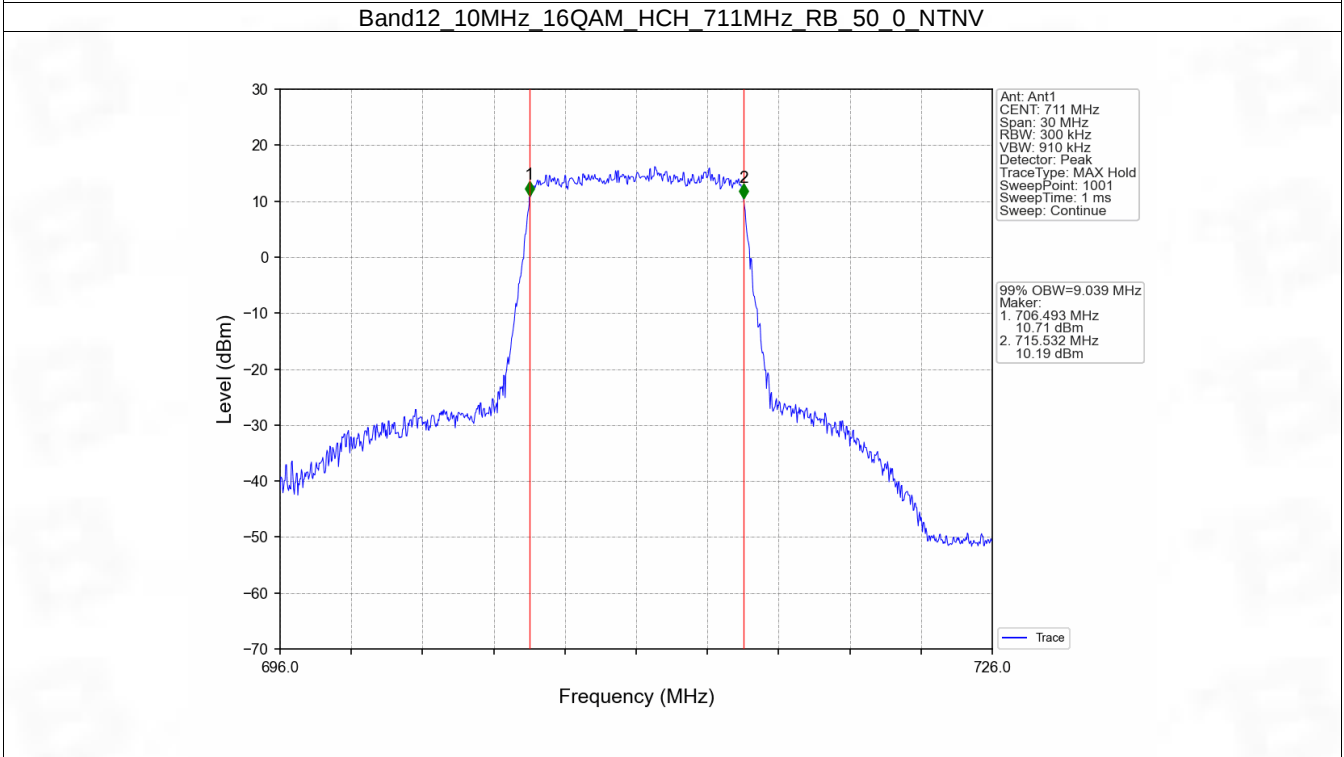
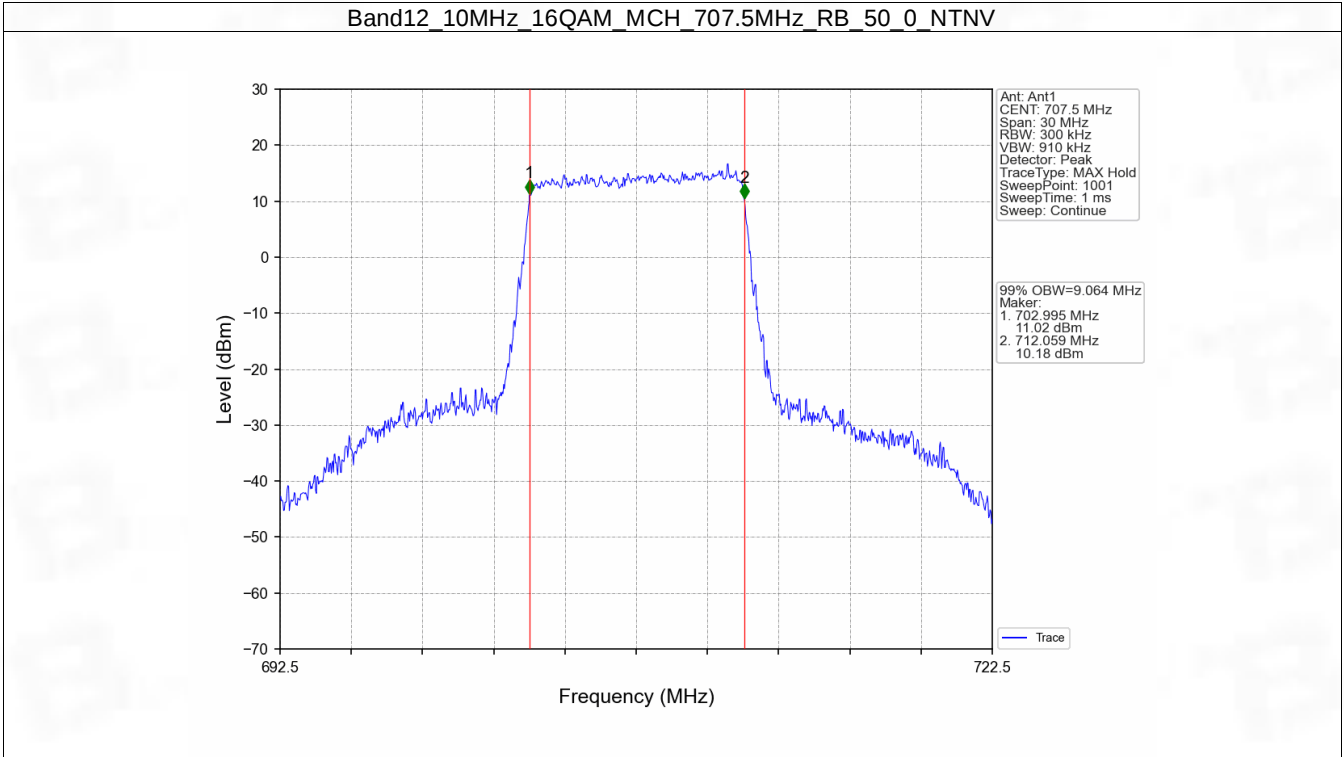


Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



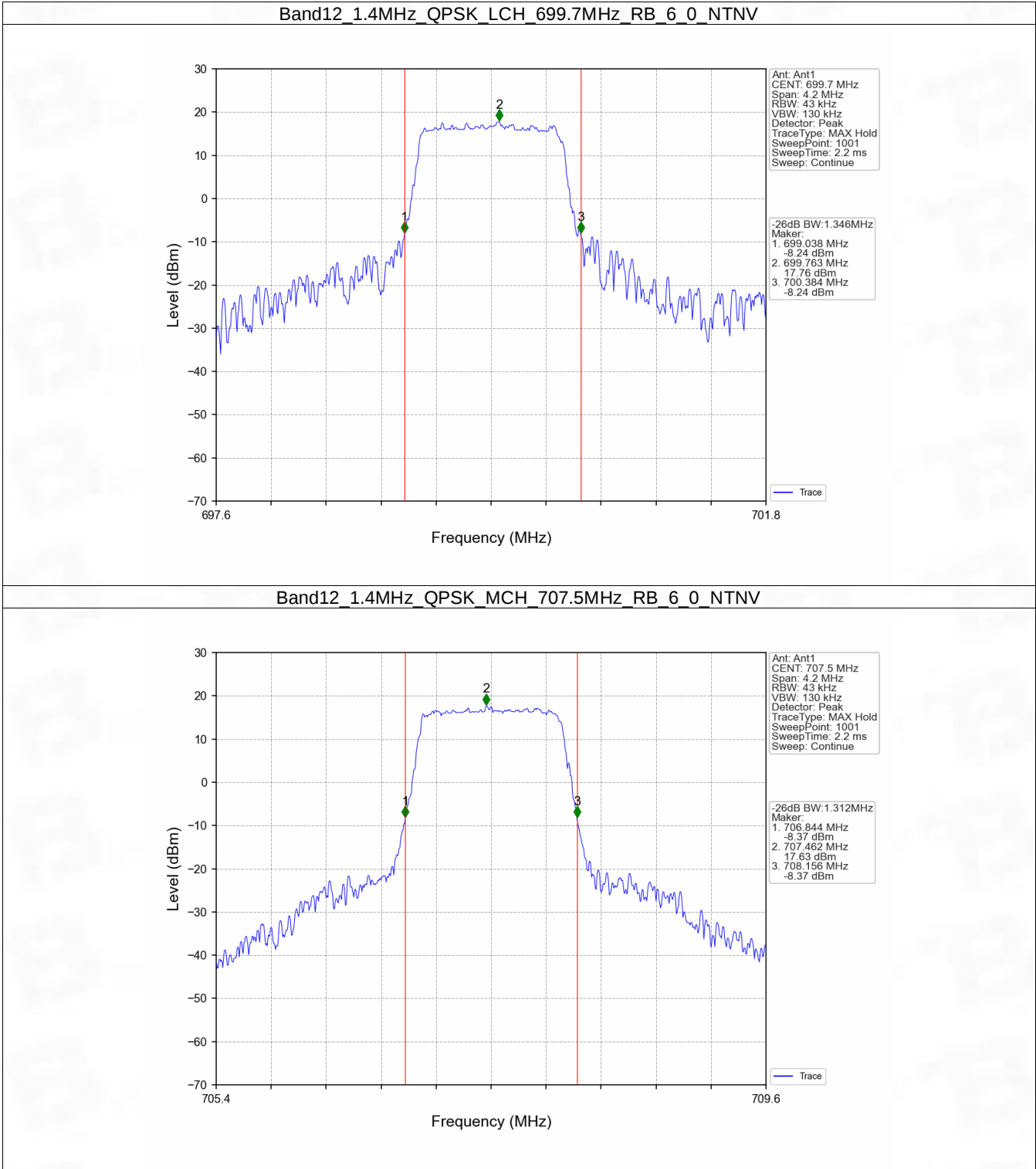


4.2 Band12_XDB

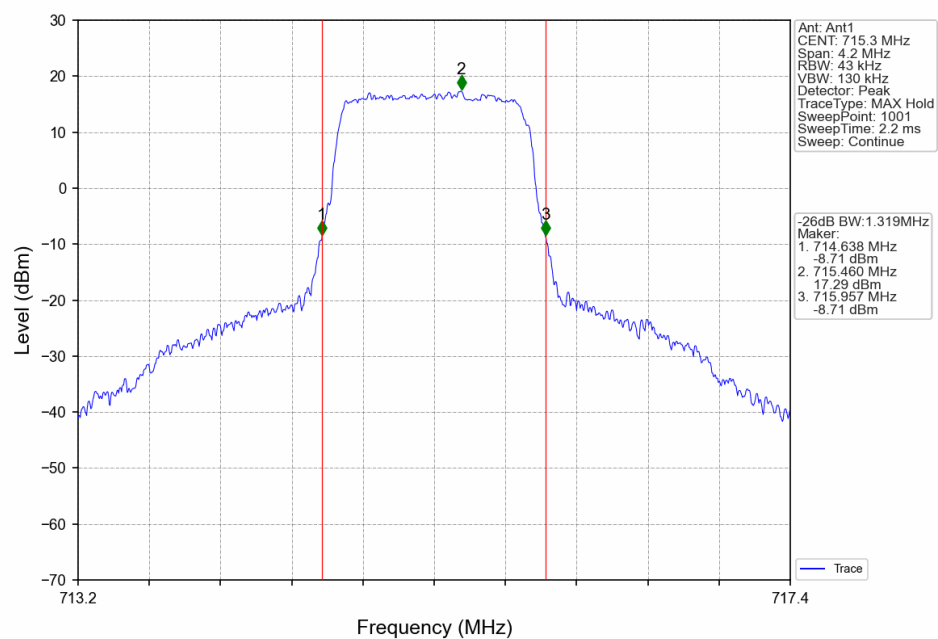
4.2.1 Test Result

Band: 12 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	699.7	6	0	1.346	Pass
		707.5	6	0	1.312	Pass
		715.3	6	0	1.319	Pass
	16QAM	699.7	6	0	1.316	Pass
		707.5	6	0	1.311	Pass
		715.3	6	0	1.305	Pass
3	QPSK	700.5	15	0	3.411	Pass
		707.5	15	0	3.004	Pass
		714.5	15	0	3.000	Pass
	16QAM	700.5	15	0	2.990	Pass
		707.5	15	0	2.995	Pass
		714.5	15	0	3.001	Pass
5	QPSK	701.5	25	0	5.272	Pass
		707.5	25	0	5.230	Pass
		713.5	25	0	5.306	Pass
	16QAM	701.5	25	0	5.258	Pass
		707.5	25	0	5.226	Pass
		713.5	25	0	5.302	Pass
10	QPSK	704	50	0	12.777	Pass
		707.5	50	0	10.533	Pass
		711	50	0	10.330	Pass
	16QAM	704	50	0	10.320	Pass
		707.5	50	0	10.141	Pass
		711	50	0	10.210	Pass

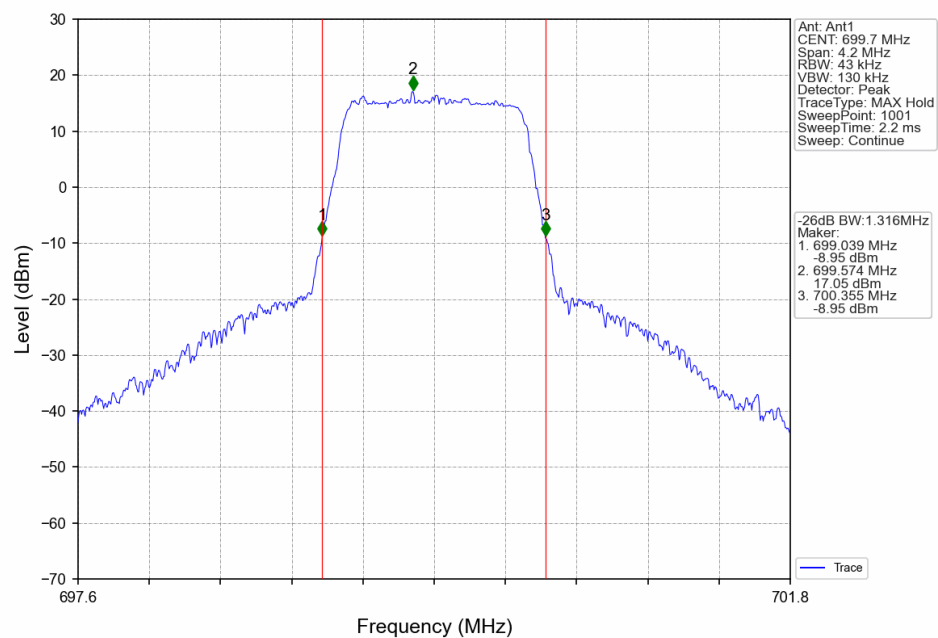
4.2.2 Test Graph

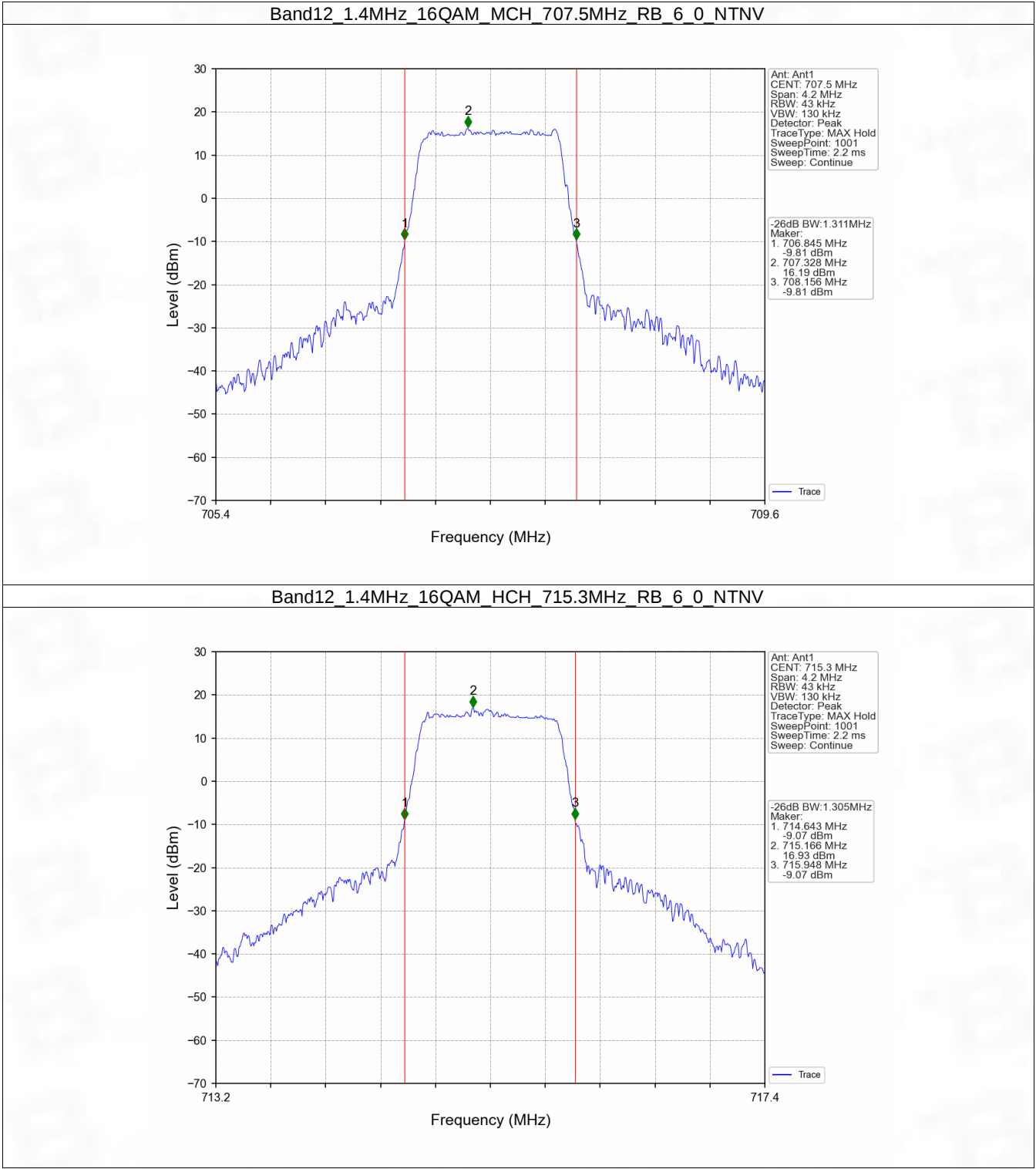


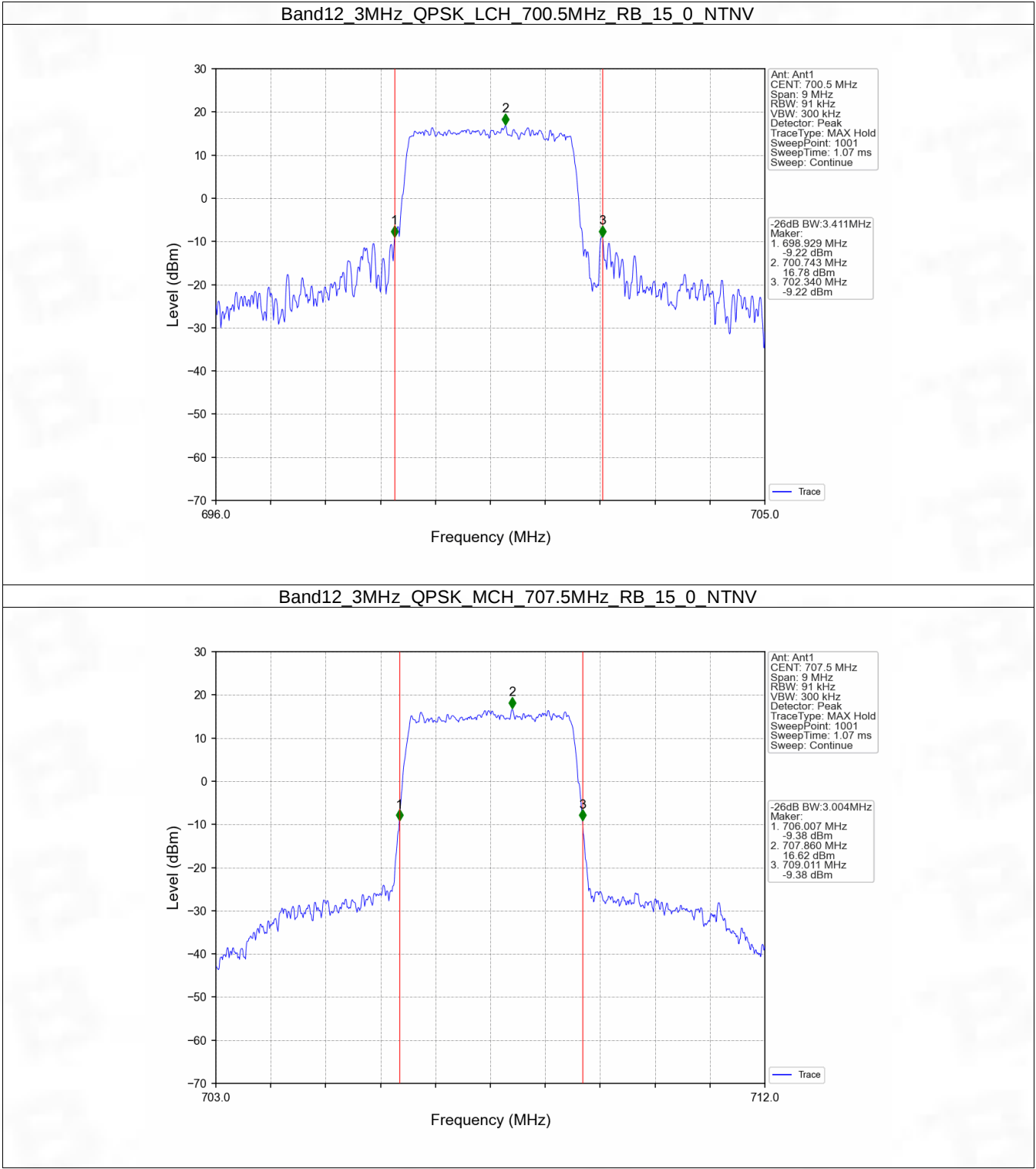
Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTNV



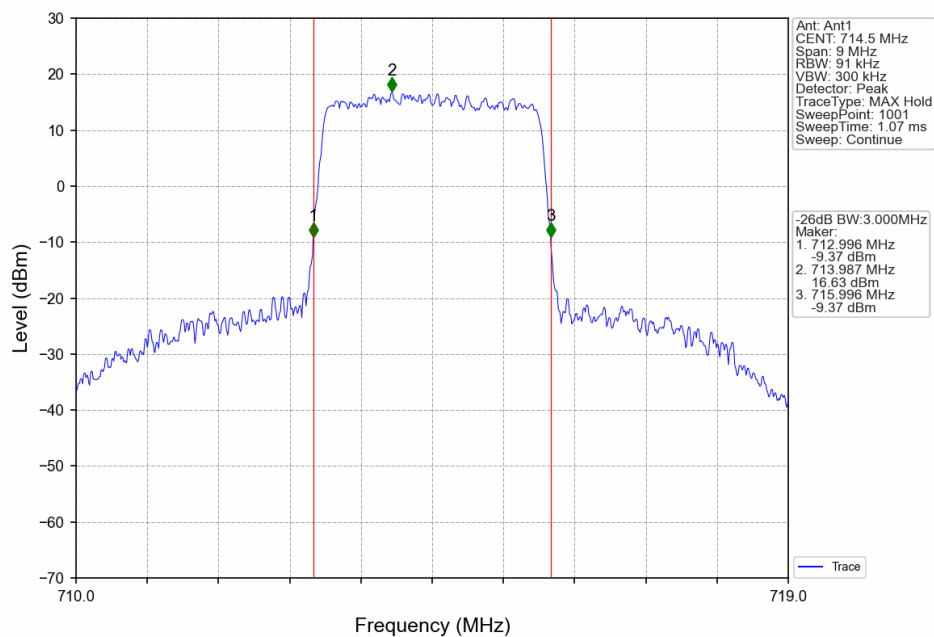
Band12 1.4MHz 16QAM LCH 699.7MHz RB 6 0 NTNV



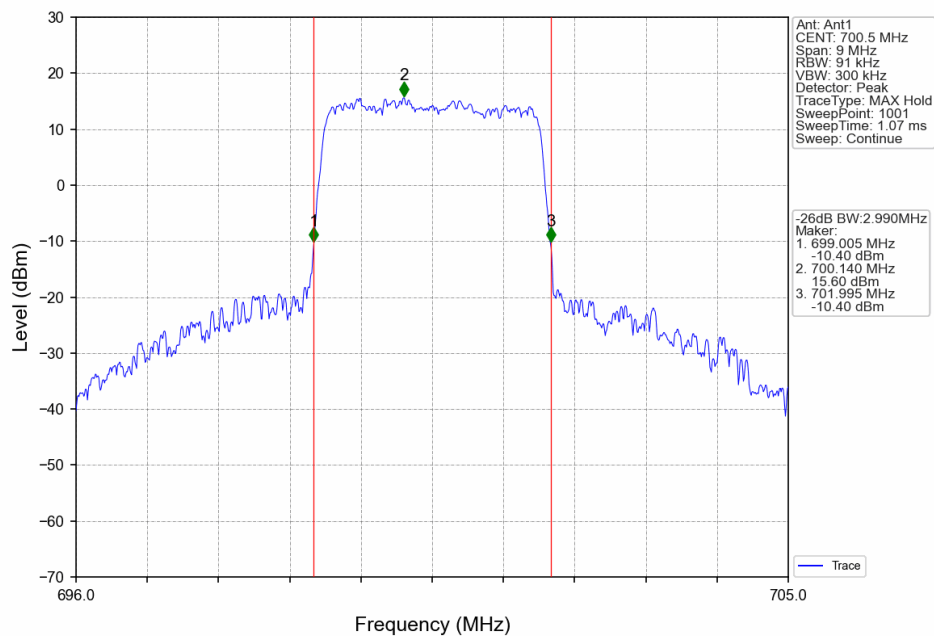




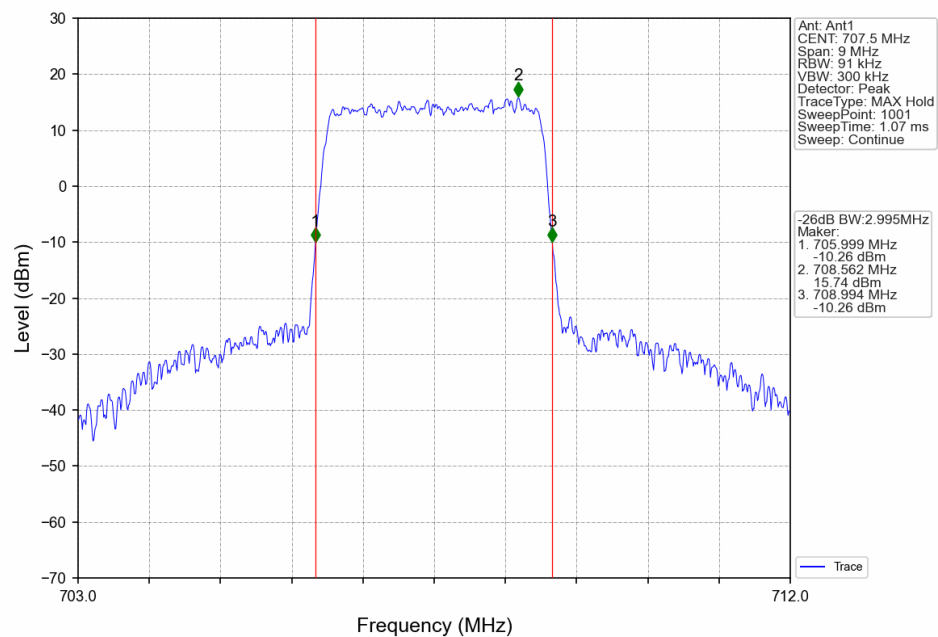
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



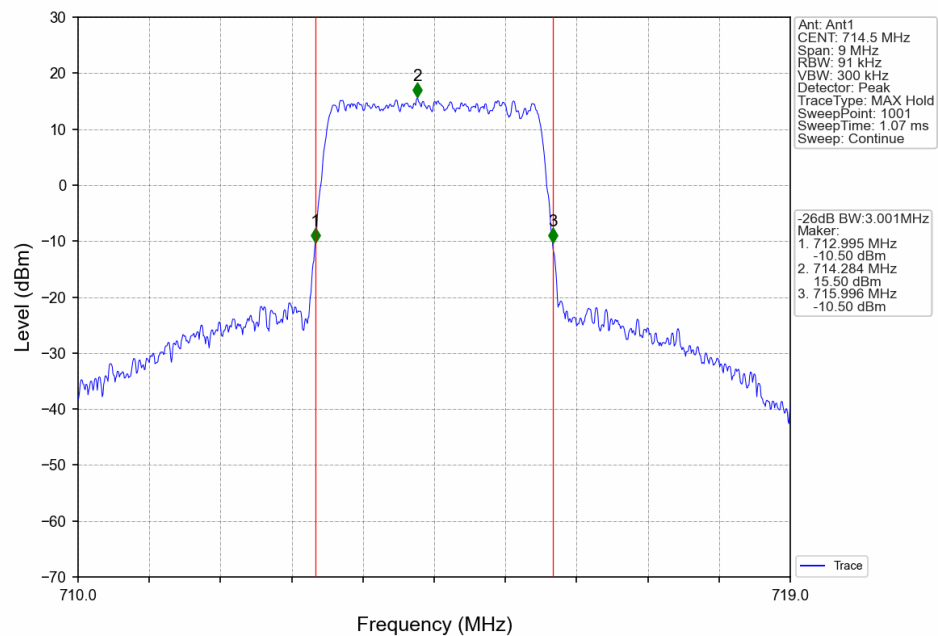
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV

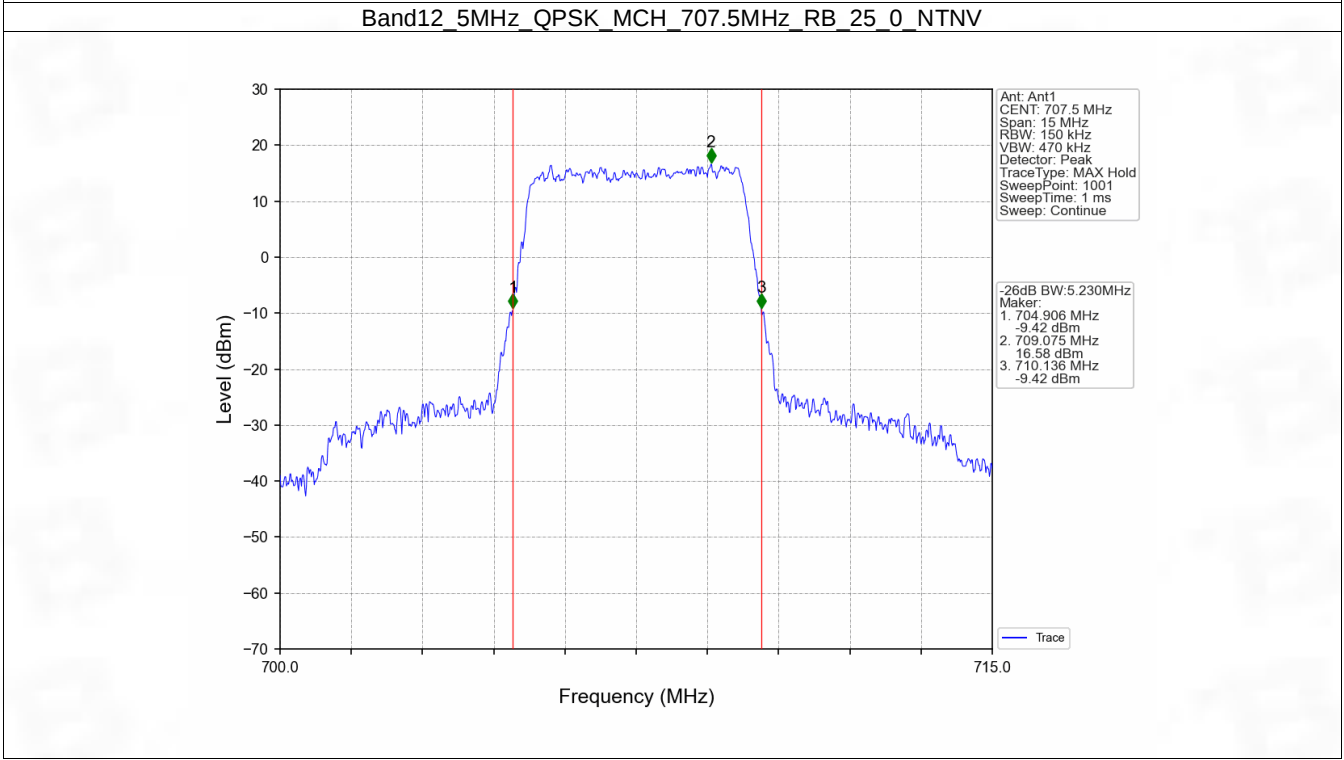
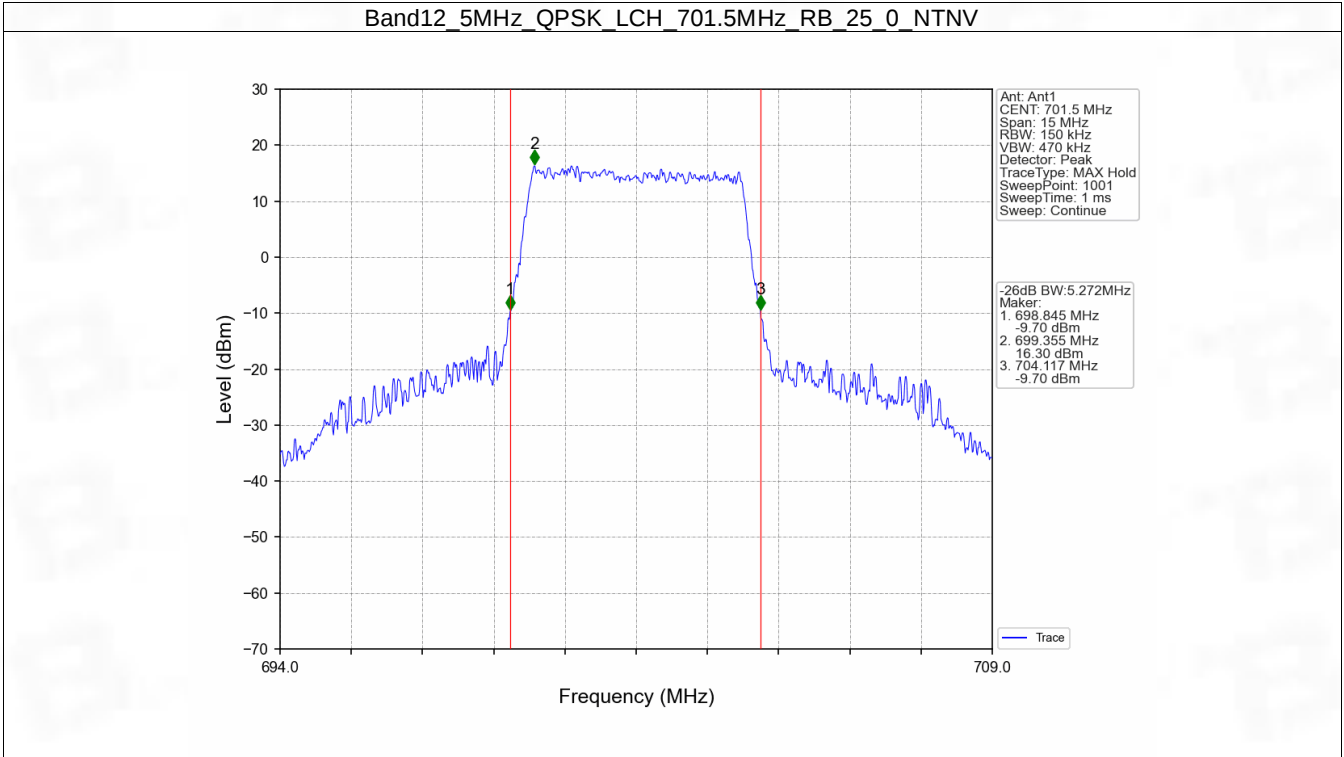


Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV

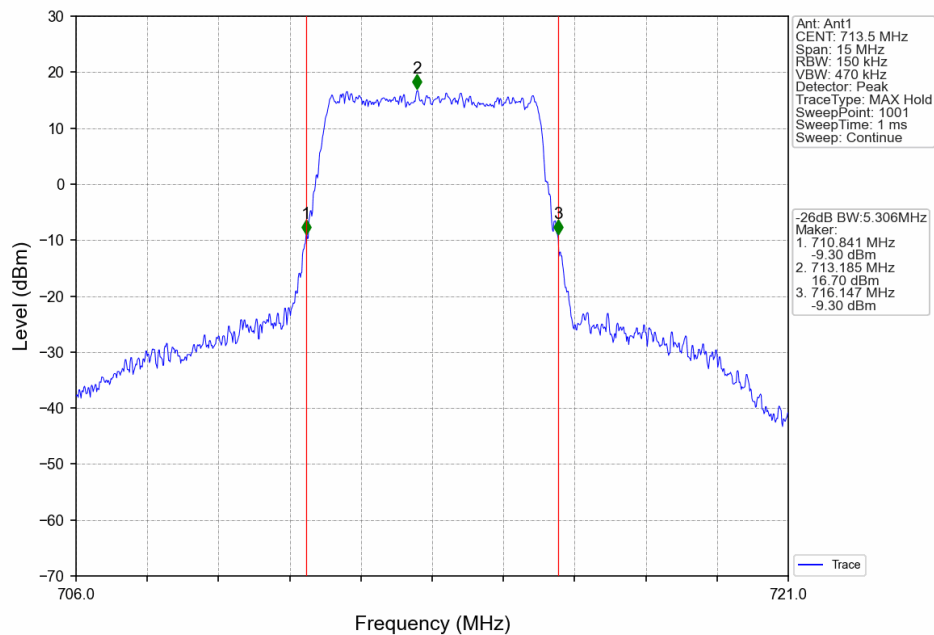


Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV

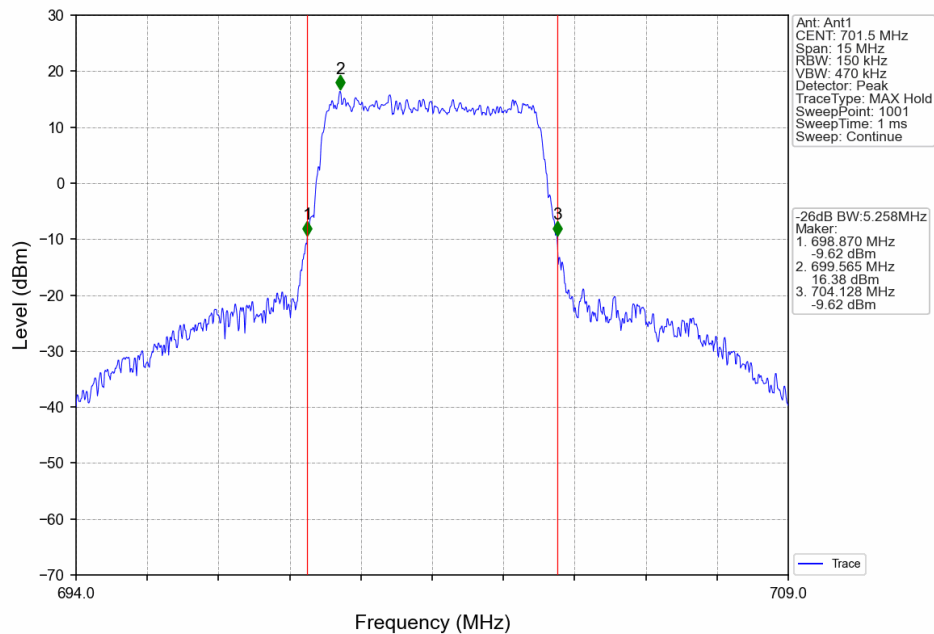


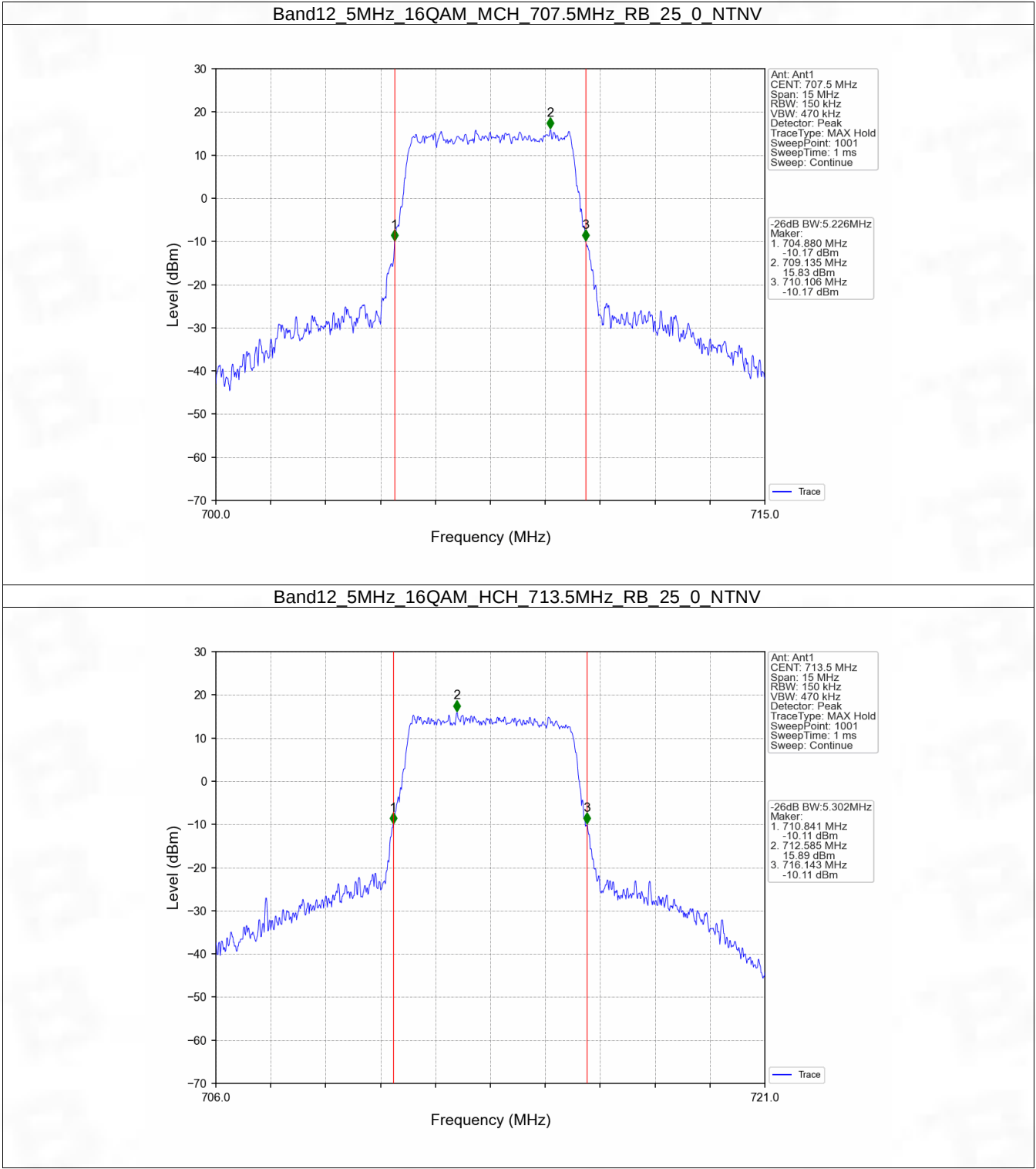


Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV

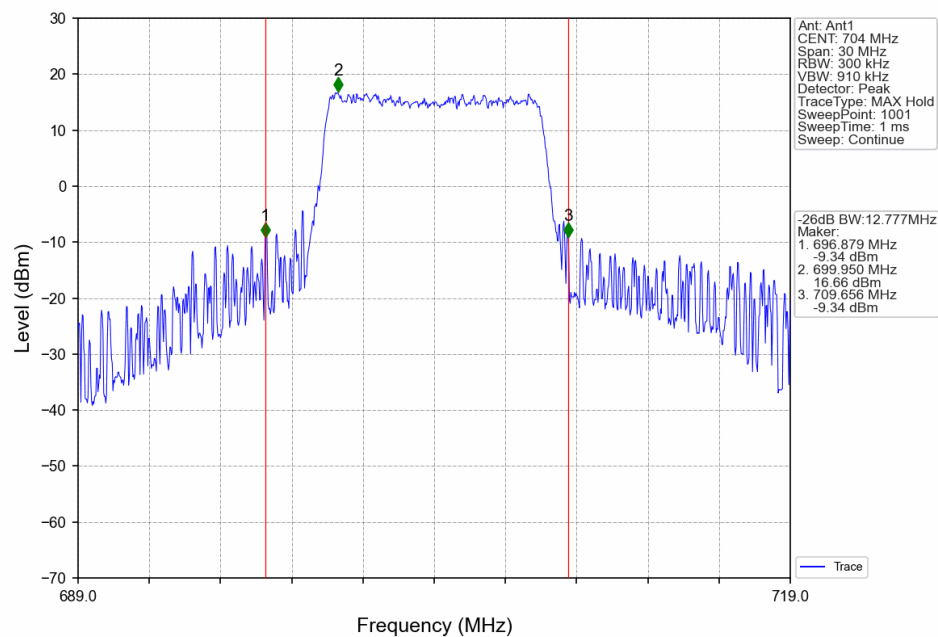


Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV

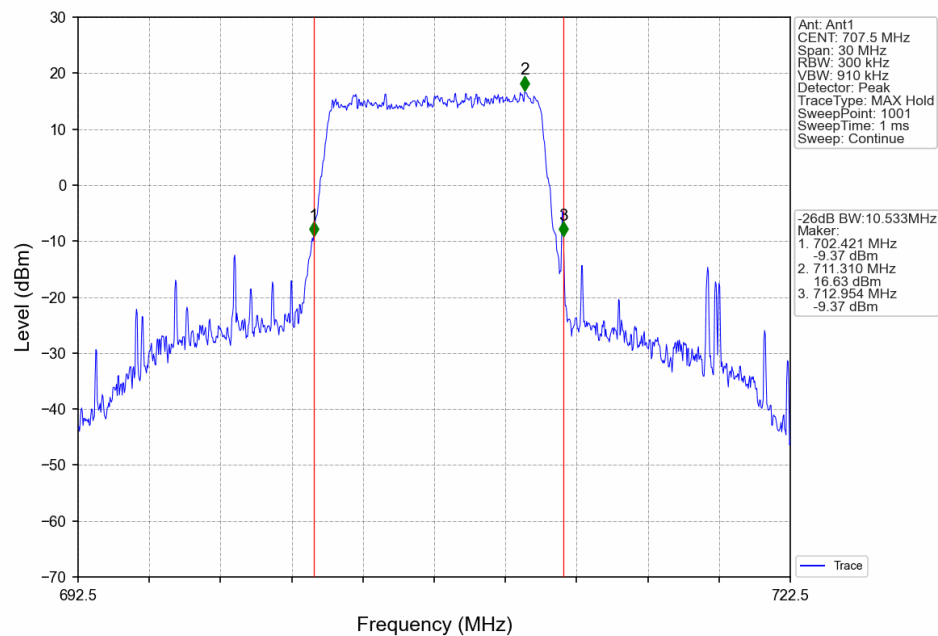




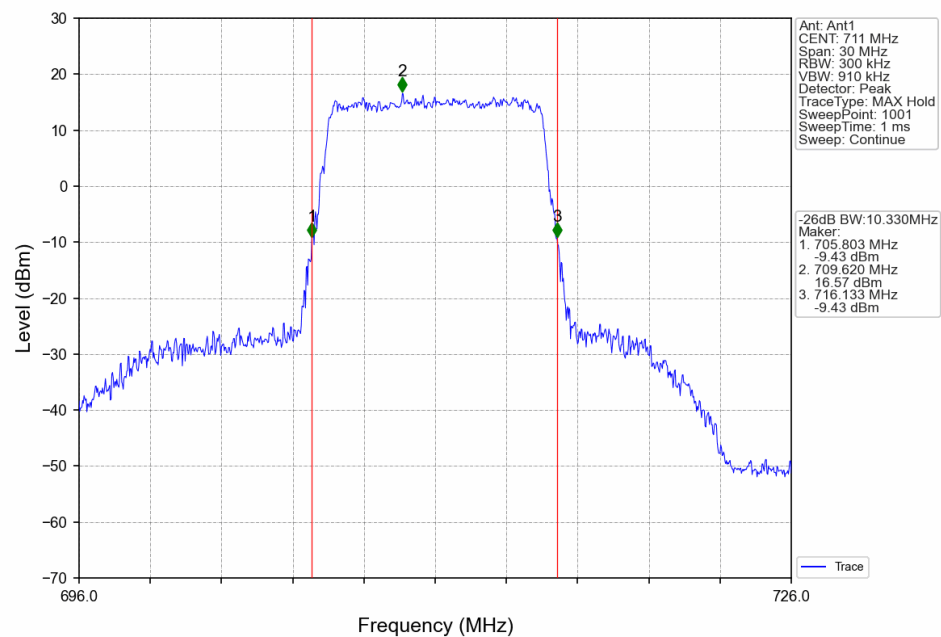
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



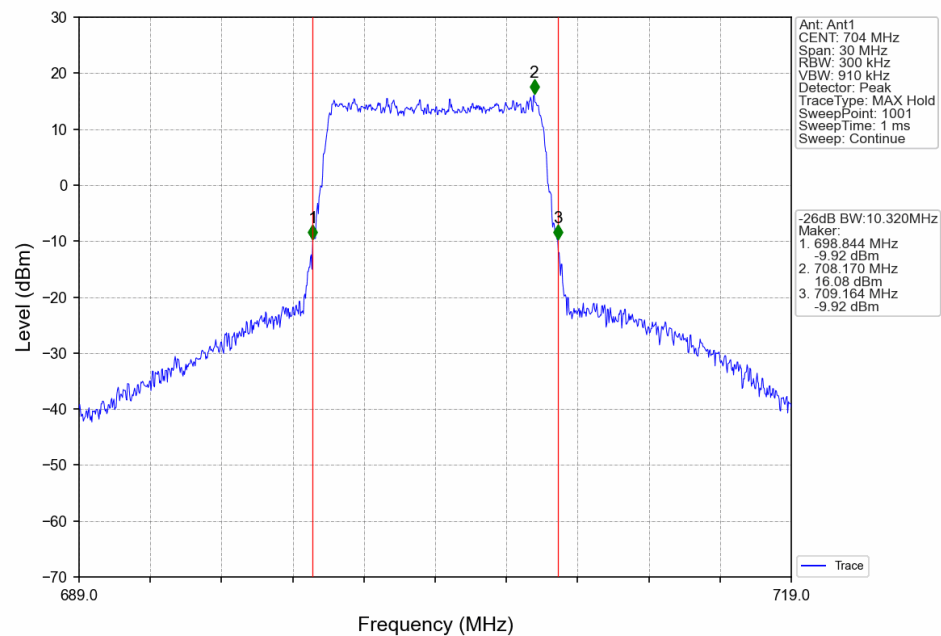
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



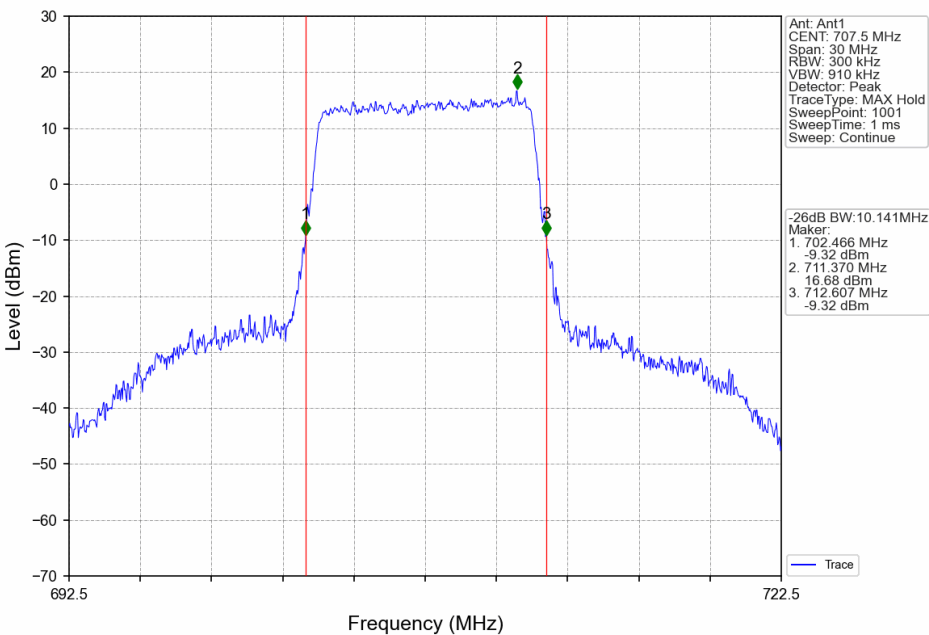
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



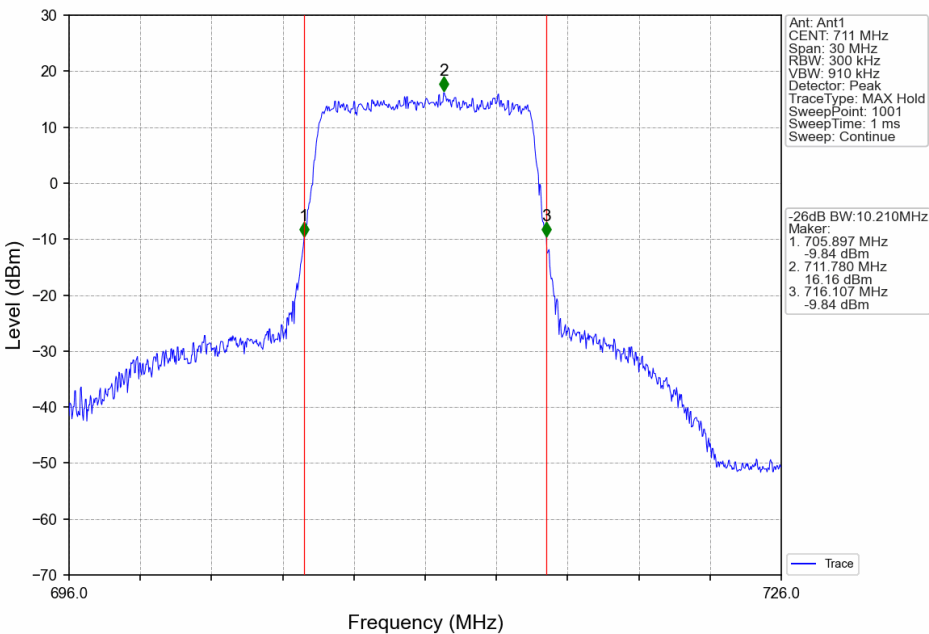
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



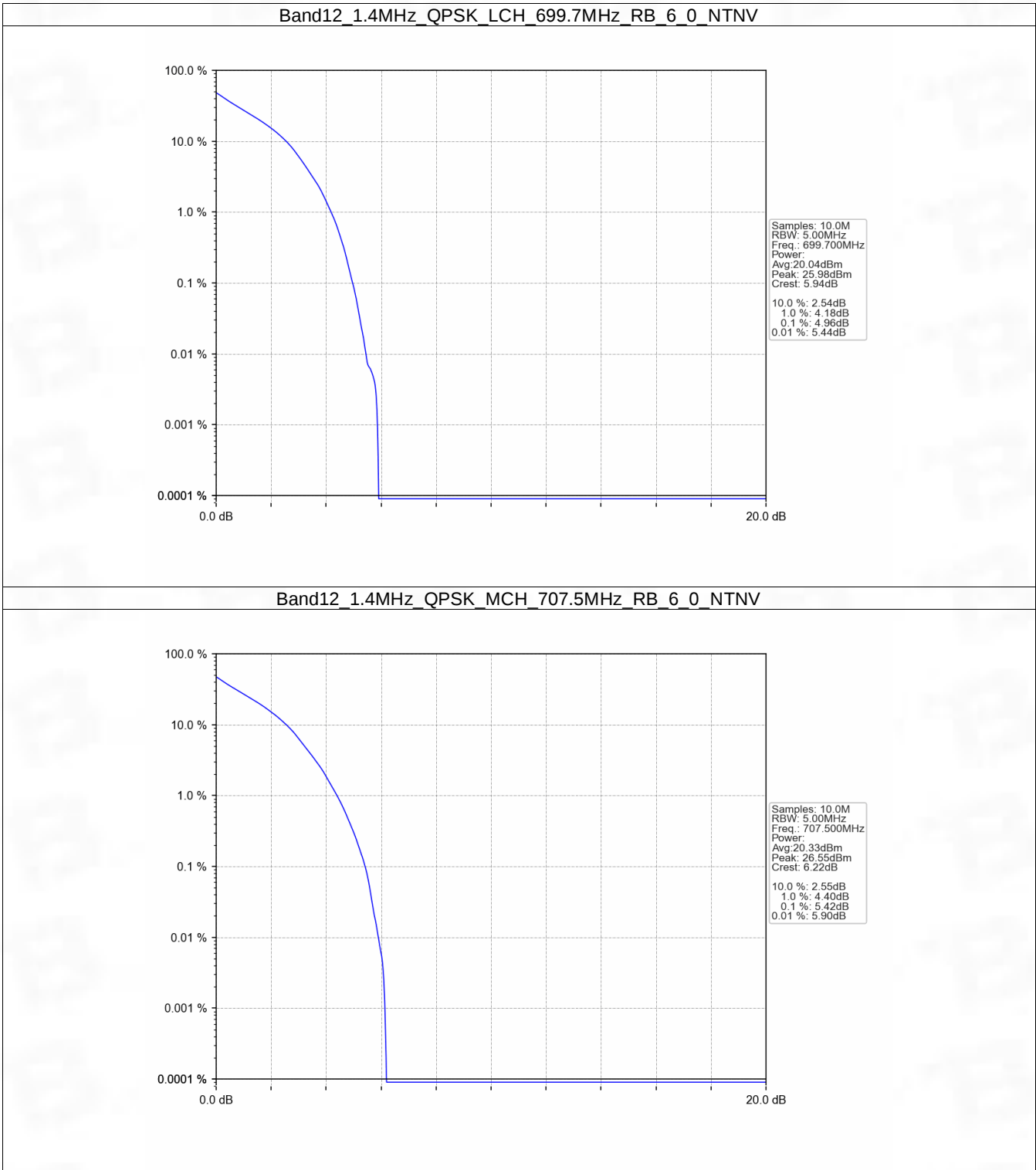
5. Peak-Average Ratio

5.1 B12_1.4MHz

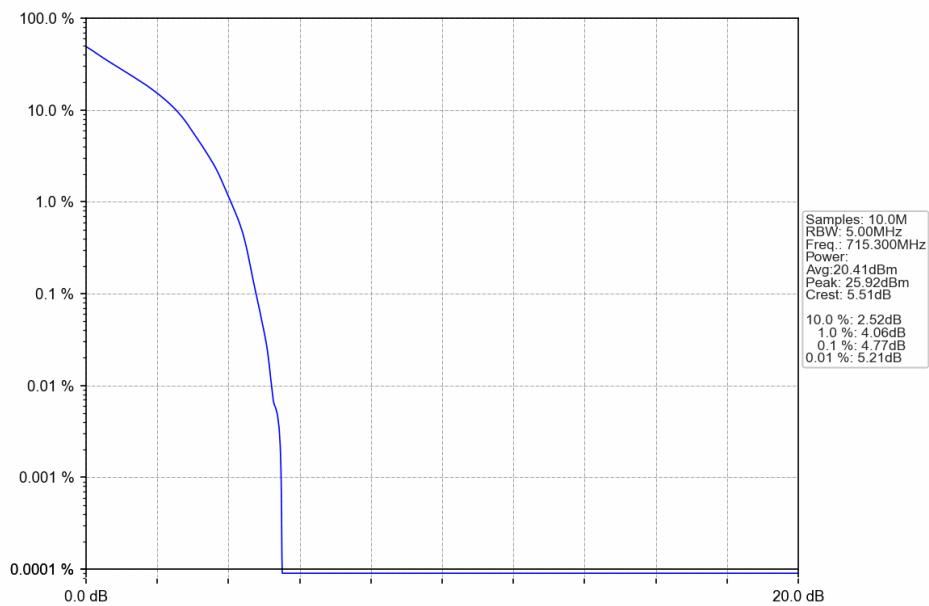
5.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	6	0	4.96	<=13	Pass
	707.5	6	0	5.42	<=13	Pass
	715.3	6	0	4.77	<=13	Pass
16QAM	699.7	6	0	5.77	<=13	Pass
	707.5	6	0	6.16	<=13	Pass
	715.3	6	0	5.66	<=13	Pass

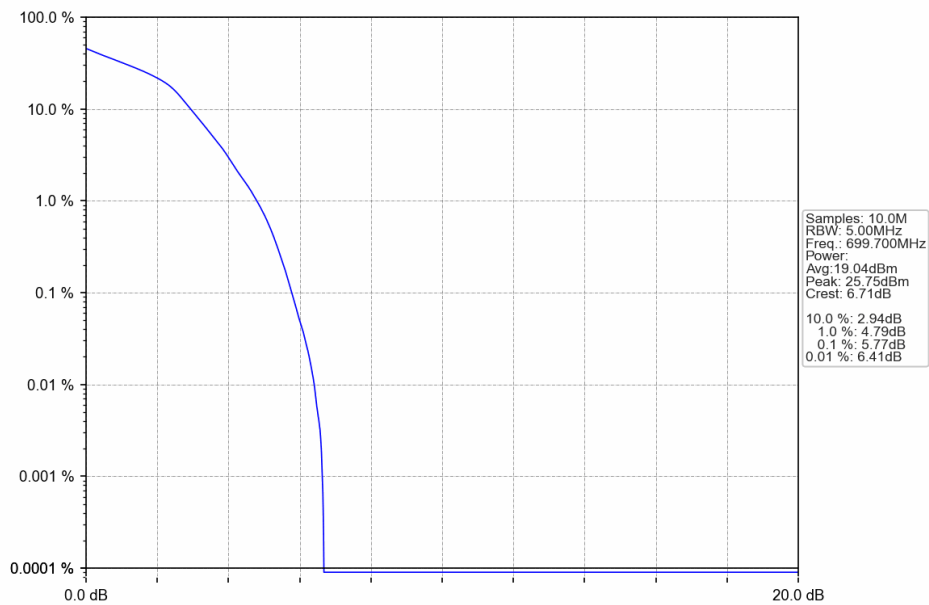
5.1.2 Test Graph

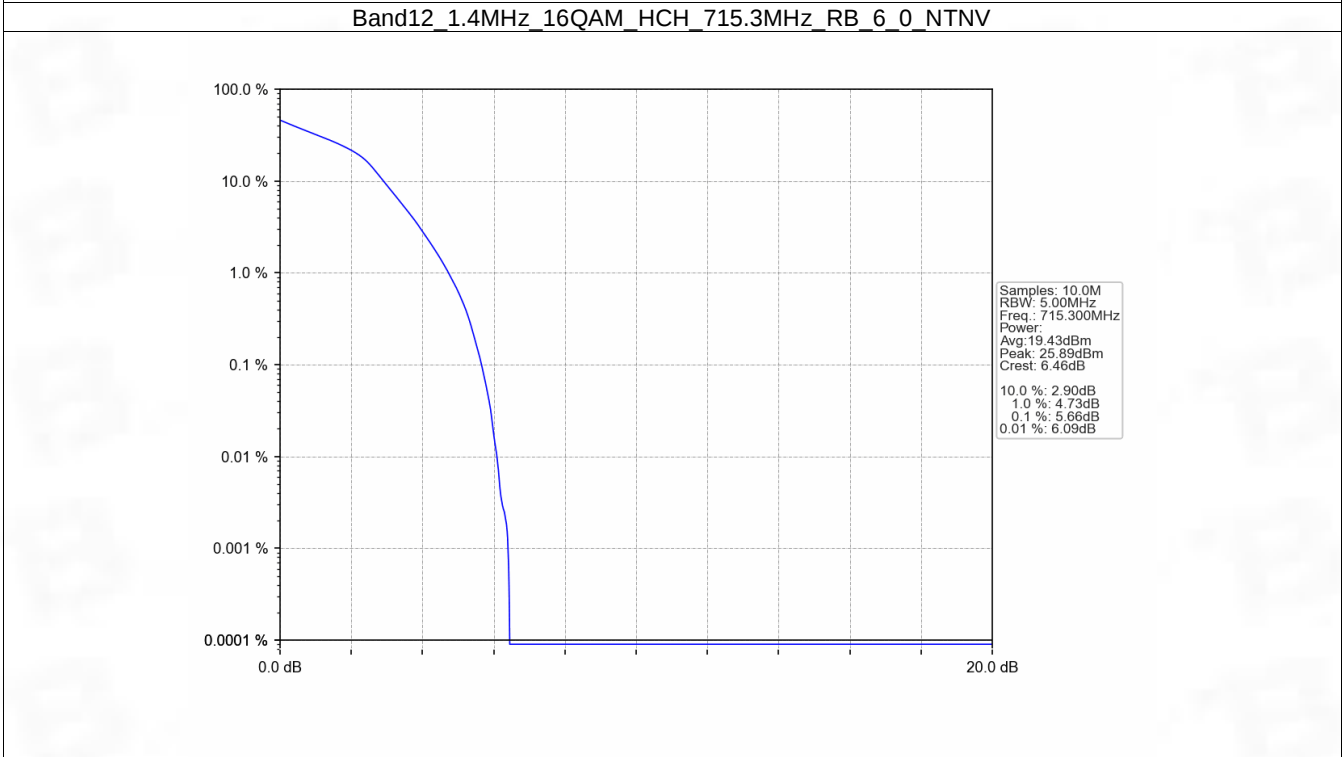
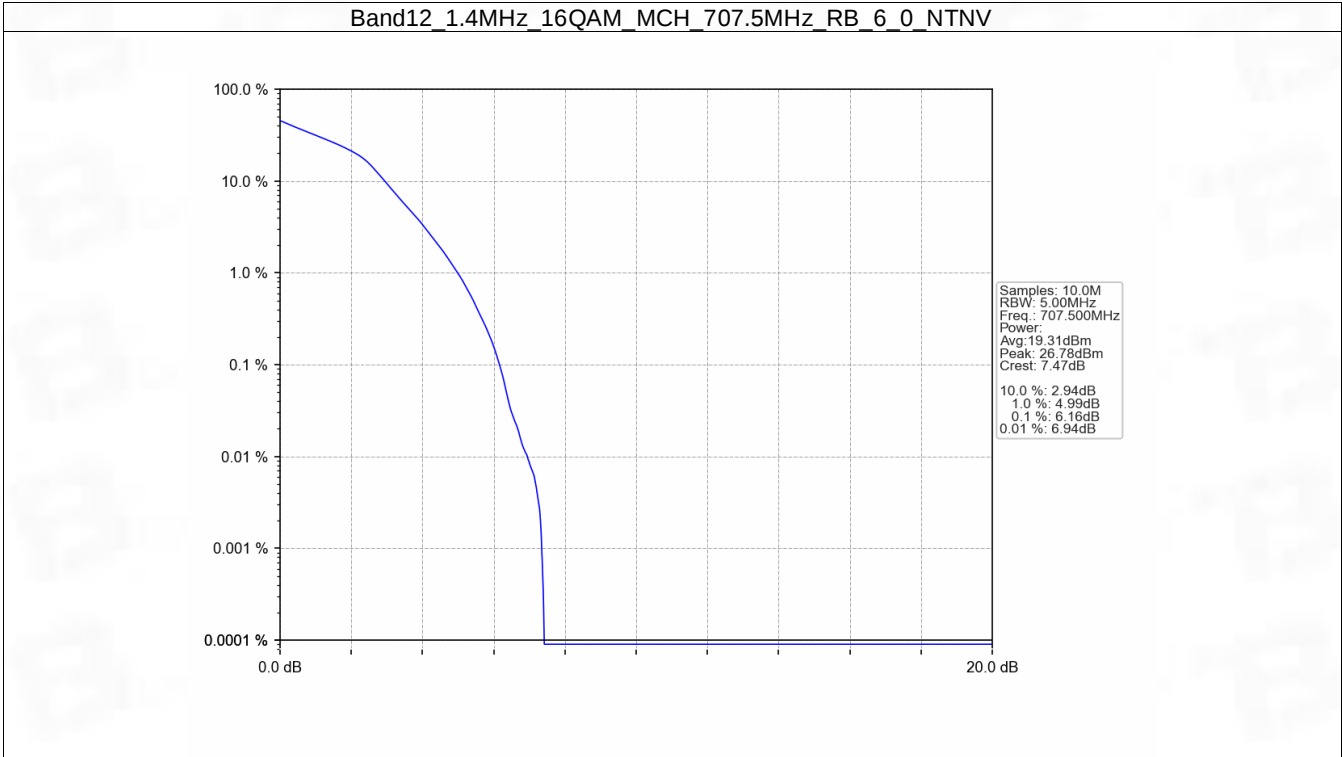


Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTNV



Band12 1.4MHz 16QAM LCH 699.7MHz RB 6 0 NTNV



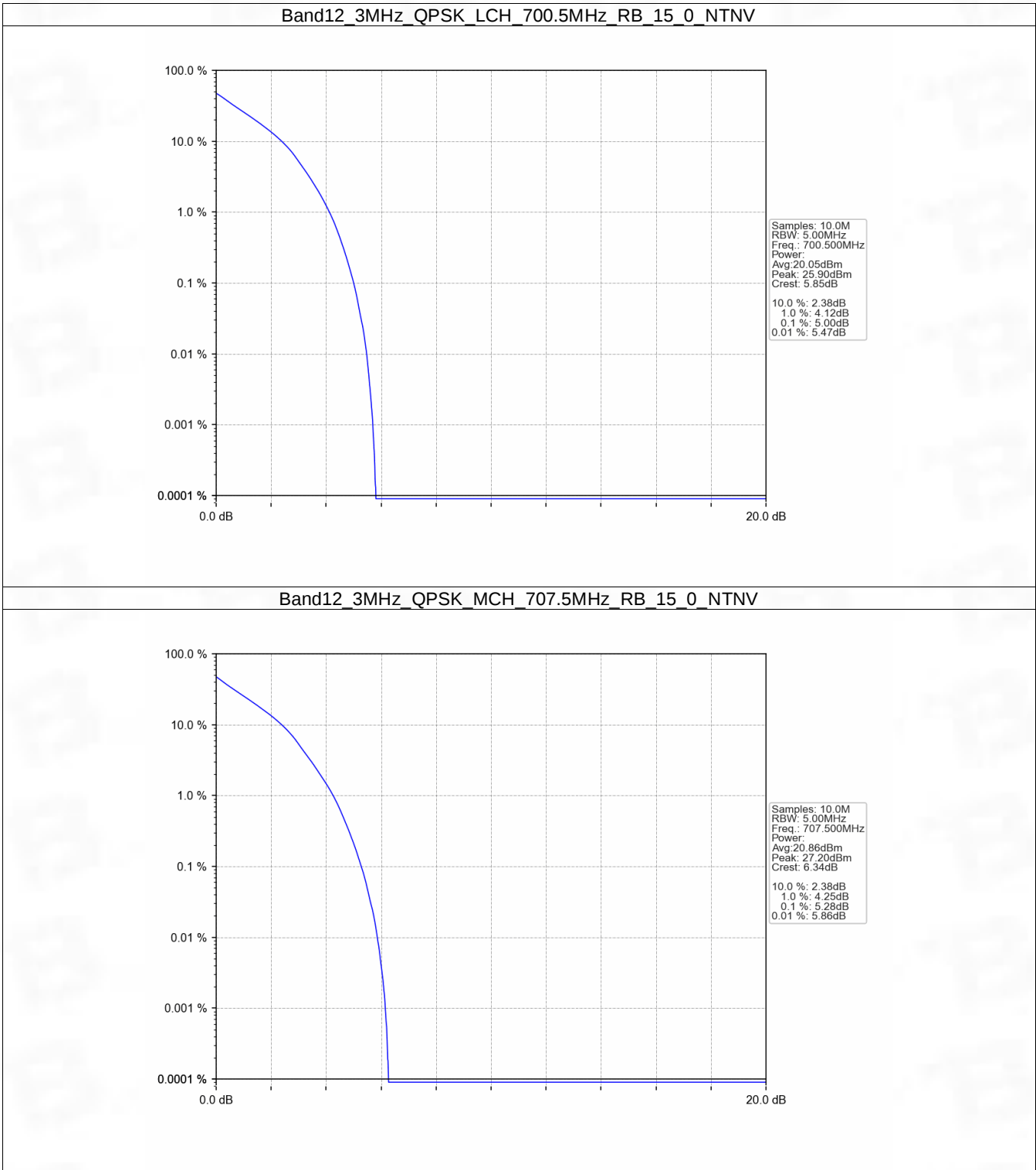


5.2 B12_3MHz

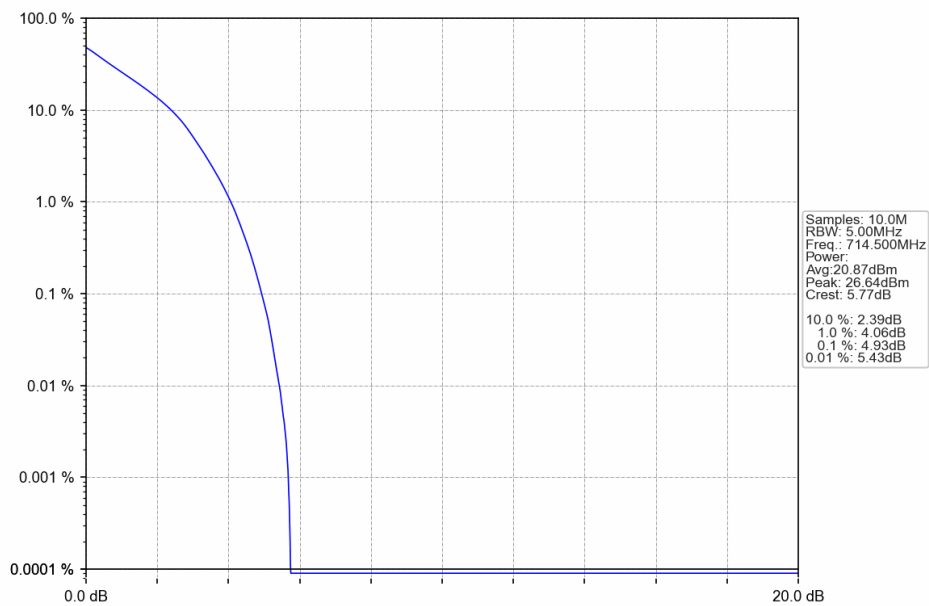
5.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	5.00	<=13	Pass
	707.5	15	0	5.28	<=13	Pass
	714.5	15	0	4.93	<=13	Pass
16QAM	700.5	15	0	5.85	<=13	Pass
	707.5	15	0	6.11	<=13	Pass
	714.5	15	0	5.75	<=13	Pass

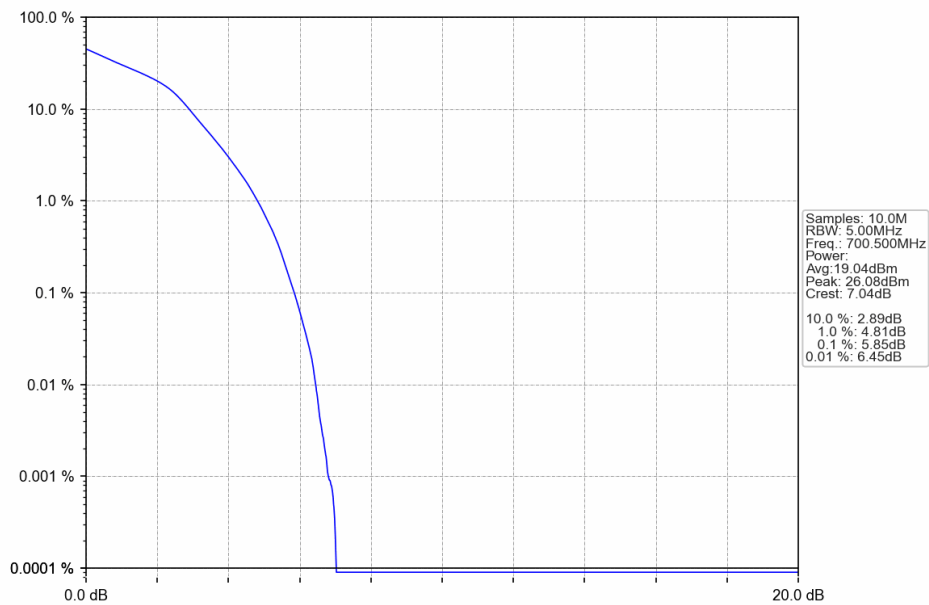
5.2.2 Test Graph



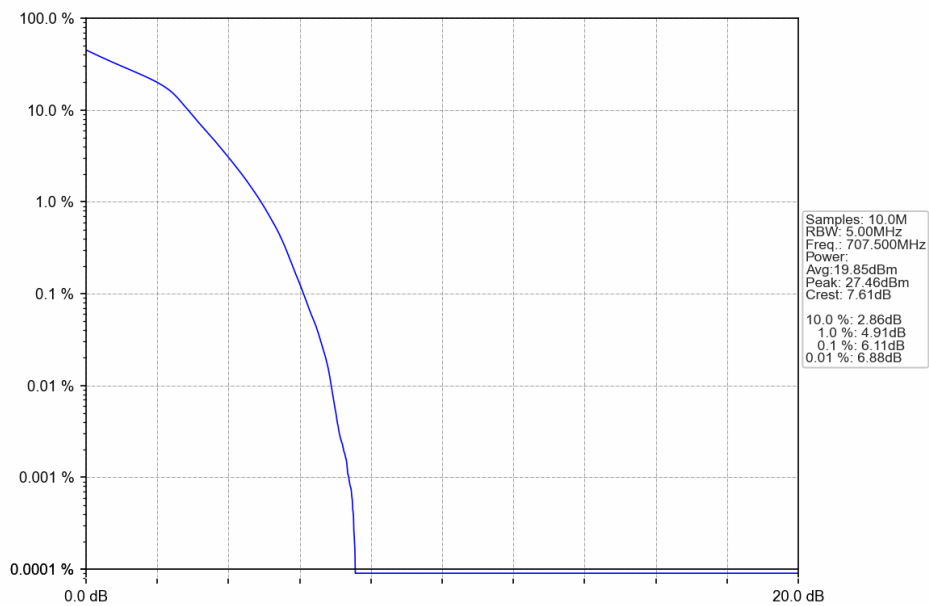
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



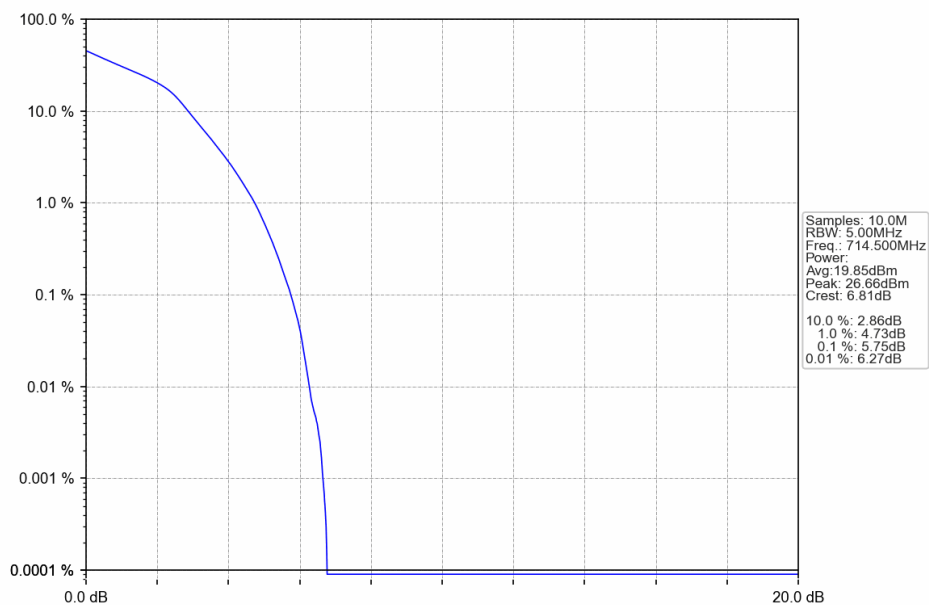
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV

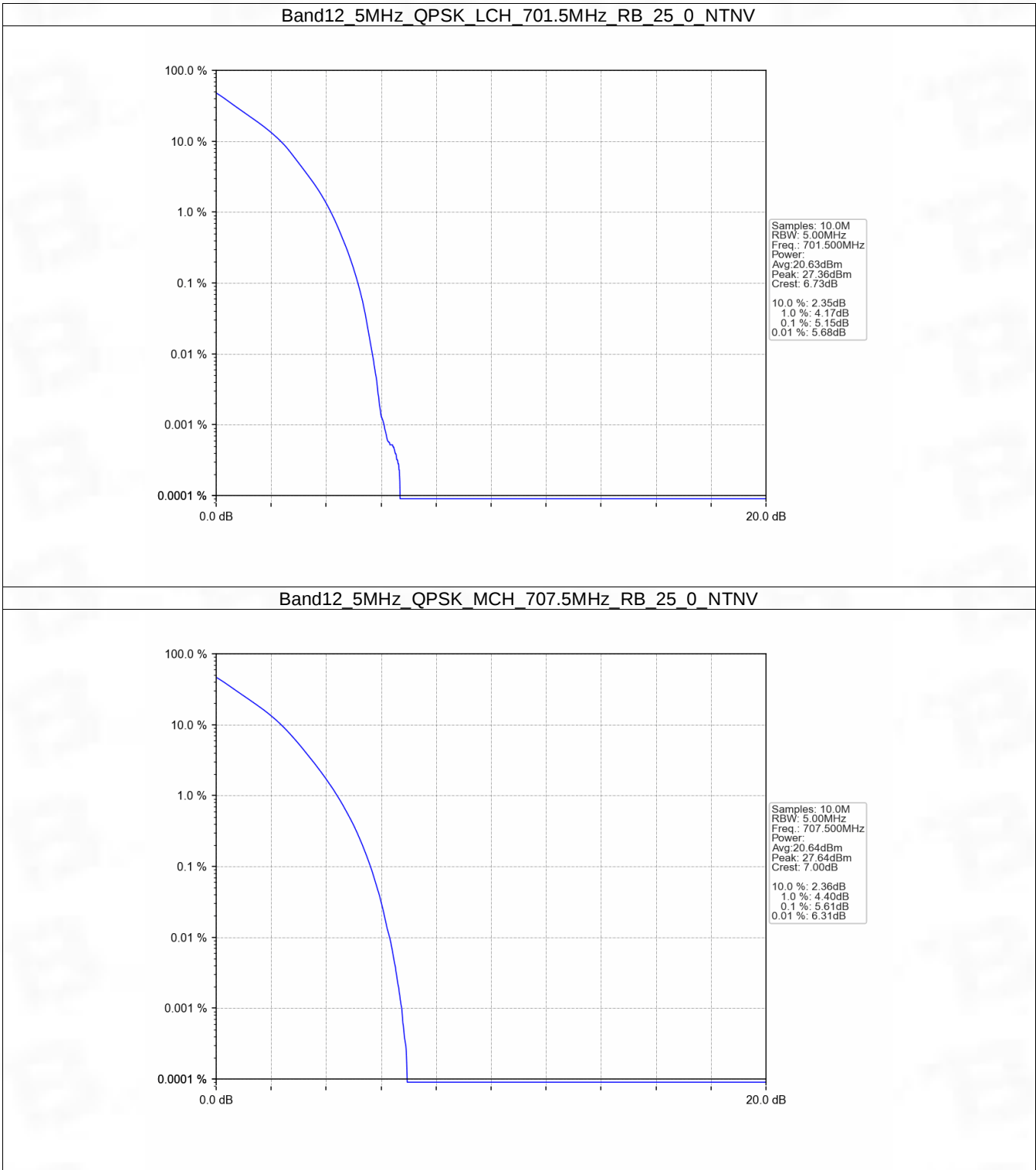


5.3 B12_5MHz

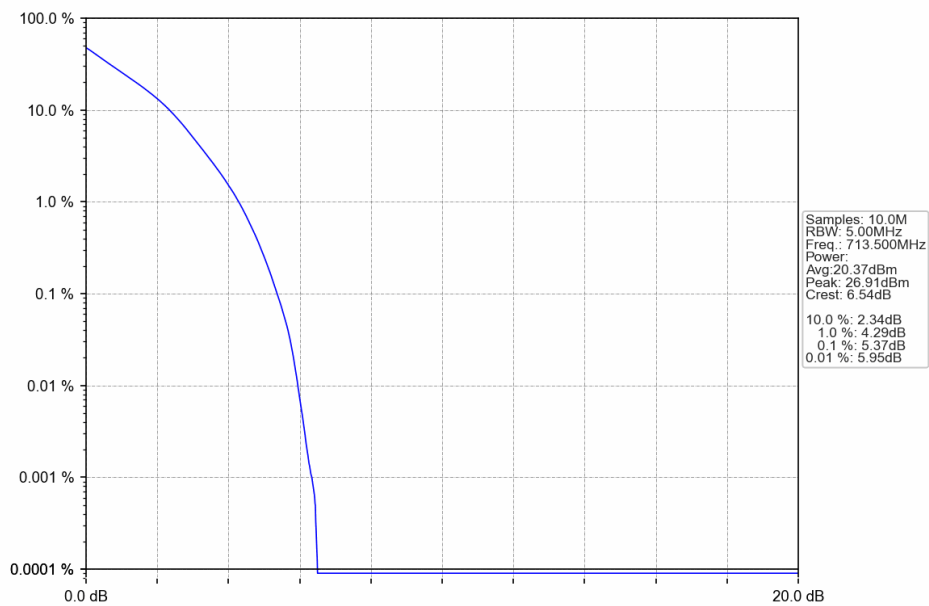
5.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	5.15	<=13	Pass
	707.5	25	0	5.61	<=13	Pass
	713.5	25	0	5.37	<=13	Pass
16QAM	701.5	25	0	5.84	<=13	Pass
	707.5	25	0	6.24	<=13	Pass
	713.5	25	0	6.09	<=13	Pass

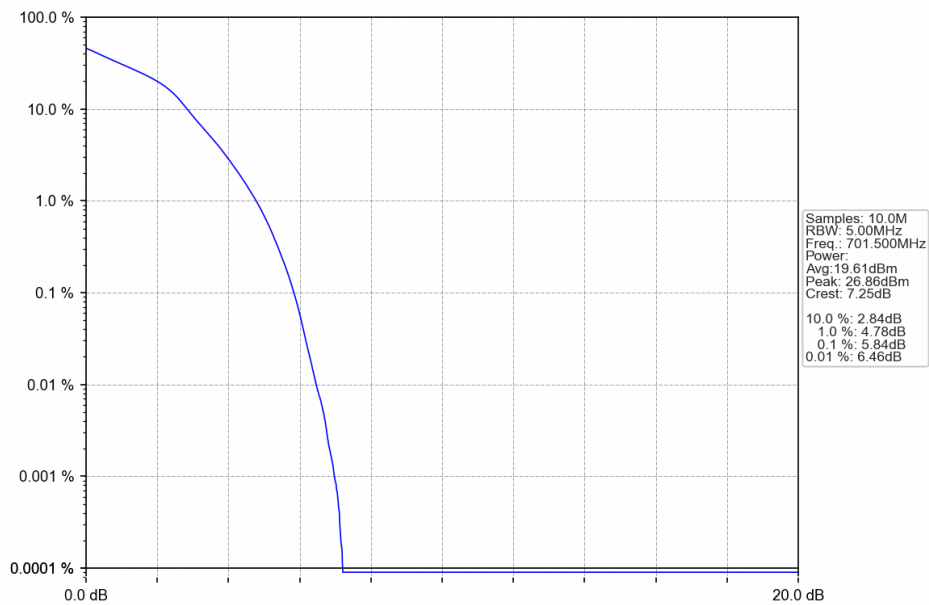
5.3.2 Test Graph



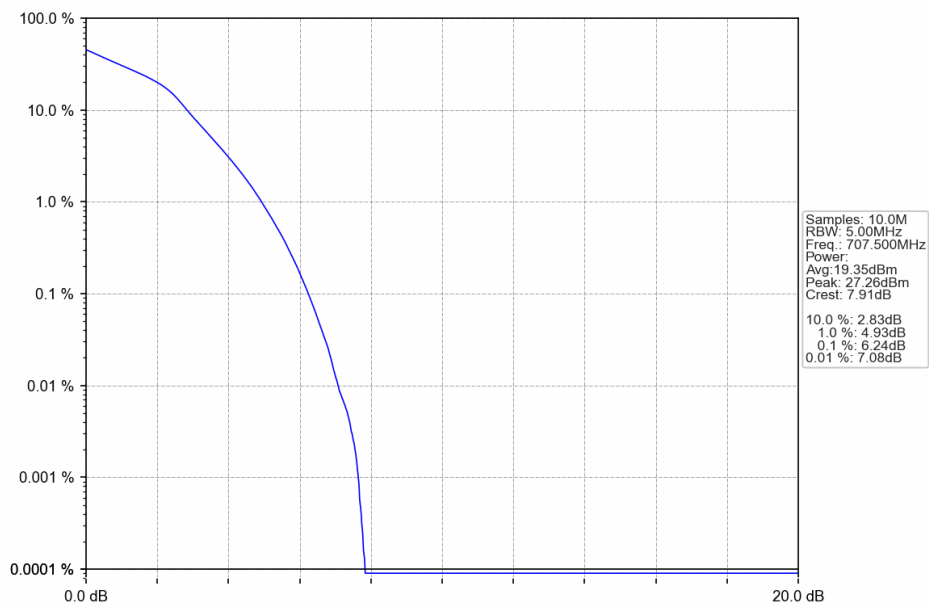
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



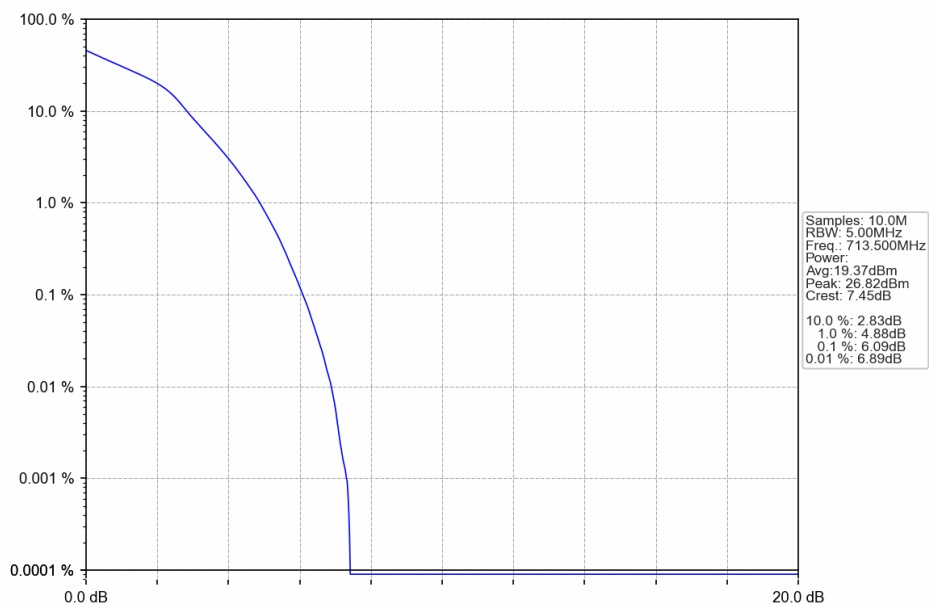
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

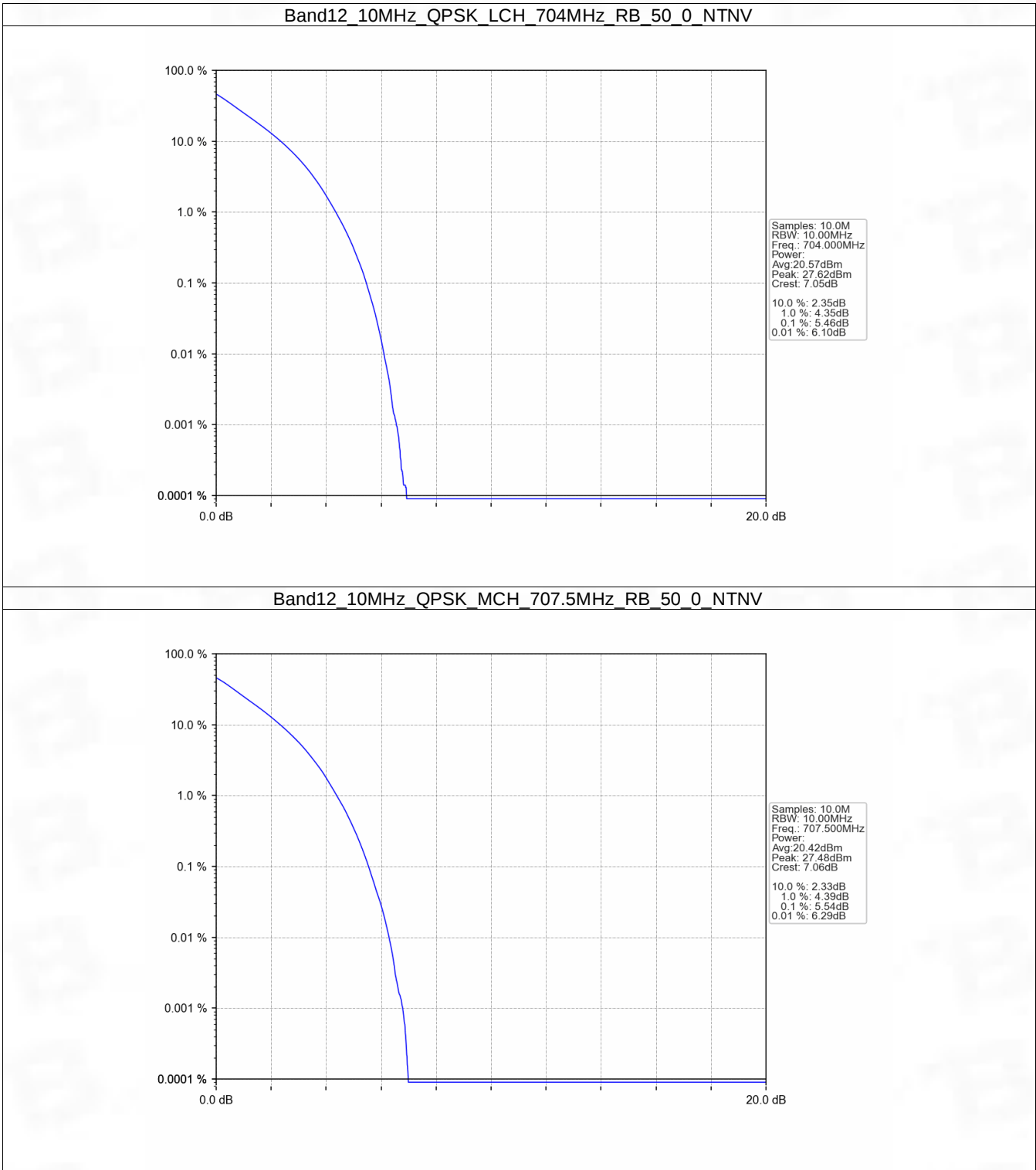


5.4 B12_10MHz

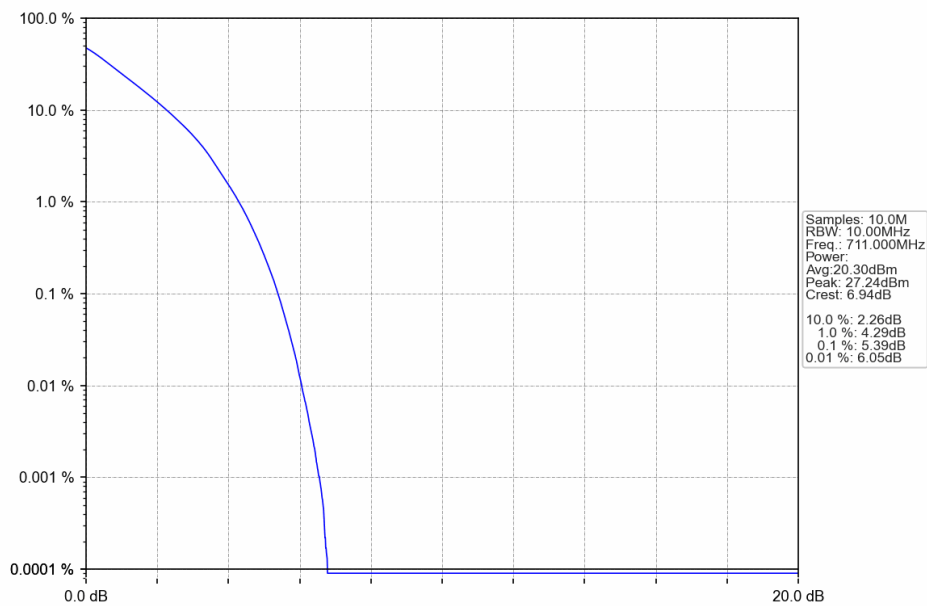
5.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	5.46	<=13	Pass
	707.5	50	0	5.54	<=13	Pass
	711	50	0	5.39	<=13	Pass
16QAM	704	50	0	6.17	<=13	Pass
	707.5	50	0	6.22	<=13	Pass
	711	50	0	6.19	<=13	Pass

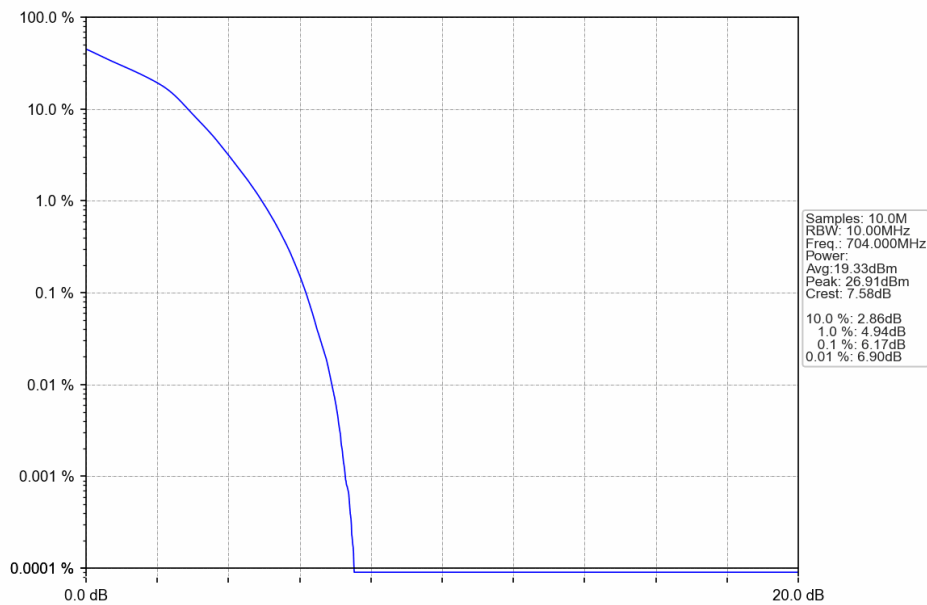
5.4.2 Test Graph

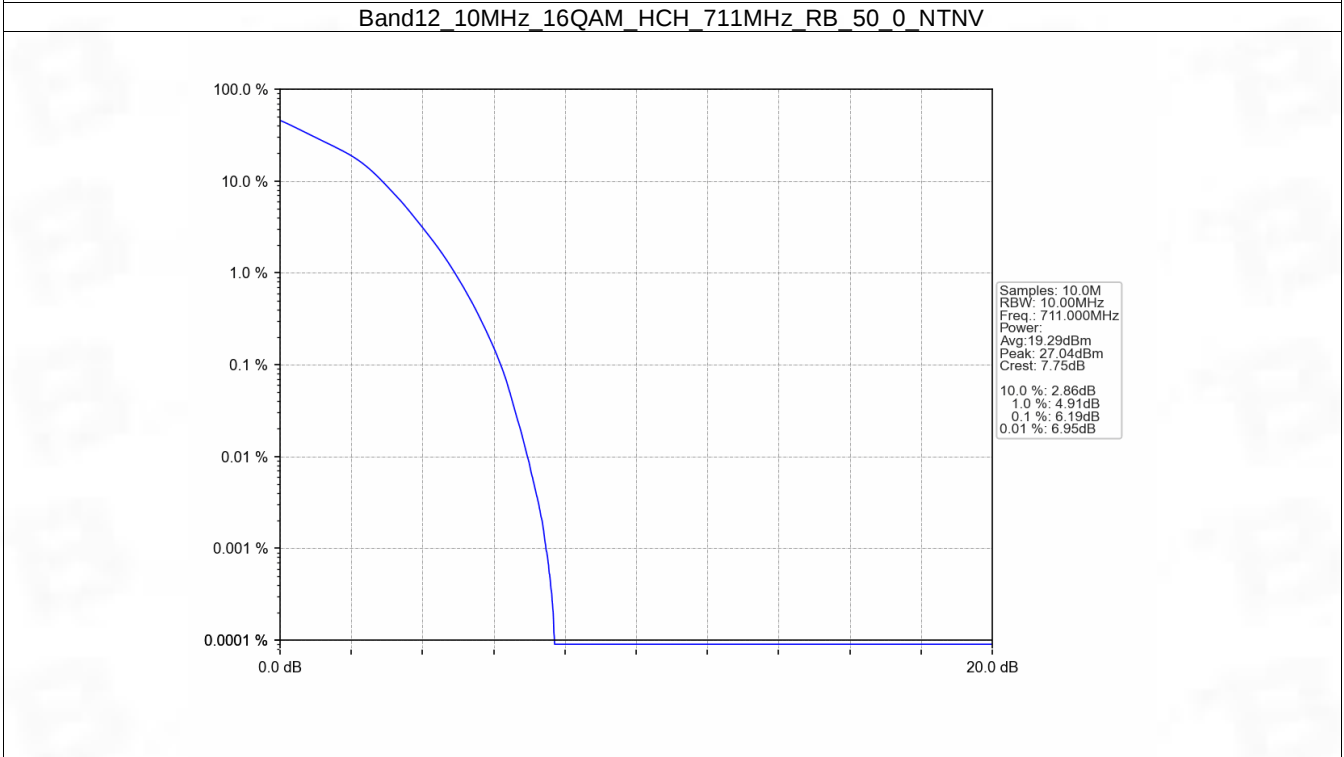
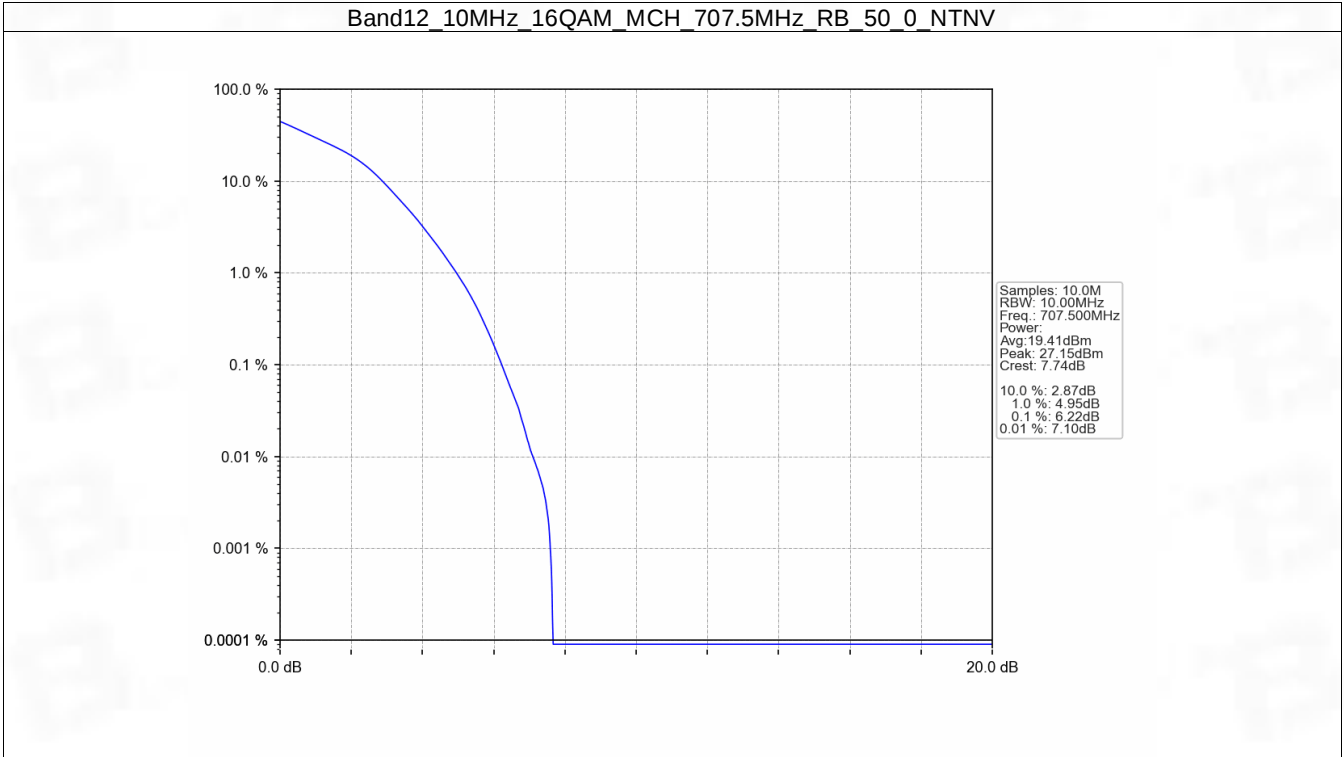


Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV





6. Spurious Emission

6.1 B12_1.4MHz

6.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		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	0	Refer To Test Graph	Pass
			5	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	0	Refer To Test Graph	Pass
			5	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass

6.1.2 Test Graph

