

Appendix 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 / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	699.7	1	0	24.18	-4.20	17.83	<=34.77	Pass
			2	24.29	-4.20	17.94	<=34.77	Pass
			5	24.23	-4.20	17.88	<=34.77	Pass
		3	0	24.25	-4.20	17.90	<=34.77	Pass
			2	24.29	-4.20	17.94	<=34.77	Pass
			3	24.25	-4.20	17.90	<=34.77	Pass
		6	0	23.24	-4.20	16.89	<=34.77	Pass
	707.5	1	0	24.15	-4.20	17.80	<=34.77	Pass
			2	24.24	-4.20	17.89	<=34.77	Pass
			5	24.13	-4.20	17.78	<=34.77	Pass
		3	0	24.27	-4.20	17.92	<=34.77	Pass
			2	24.28	-4.20	17.93	<=34.77	Pass
			3	24.24	-4.20	17.89	<=34.77	Pass
		6	0	23.23	-4.20	16.88	<=34.77	Pass
	715.3	1	0	24.26	-4.20	17.91	<=34.77	Pass
			2	24.38	-4.20	18.03	<=34.77	Pass
			5	24.26	-4.20	17.91	<=34.77	Pass
		3	0	24.34	-4.20	17.99	<=34.77	Pass
			2	24.30	-4.20	17.95	<=34.77	Pass
			3	24.30	-4.20	17.95	<=34.77	Pass
		6	0	23.27	-4.20	16.92	<=34.77	Pass
16QAM	699.7	1	0	23.27	-4.20	16.92	<=34.77	Pass
			2	23.37	-4.20	17.02	<=34.77	Pass
			5	23.28	-4.20	16.93	<=34.77	Pass
		3	0	23.12	-4.20	16.77	<=34.77	Pass
			2	23.16	-4.20	16.81	<=34.77	Pass
			3	23.17	-4.20	16.82	<=34.77	Pass
		6	0	22.25	-4.20	15.90	<=34.77	Pass
	707.5	1	0	23.14	-4.20	16.79	<=34.77	Pass
			2	23.21	-4.20	16.86	<=34.77	Pass
			5	23.12	-4.20	16.77	<=34.77	Pass
		3	0	23.40	-4.20	17.05	<=34.77	Pass
			2	23.45	-4.20	17.10	<=34.77	Pass
			3	23.42	-4.20	17.07	<=34.77	Pass
		6	0	22.27	-4.20	15.92	<=34.77	Pass
	715.3	1	0	23.21	-4.20	16.86	<=34.77	Pass
			2	23.30	-4.20	16.95	<=34.77	Pass
			5	23.25	-4.20	16.90	<=34.77	Pass
		3	0	23.32	-4.20	16.97	<=34.77	Pass
			2	23.31	-4.20	16.96	<=34.77	Pass
			3	23.32	-4.20	16.97	<=34.77	Pass
		6	0	22.25	-4.20	15.90	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B12_3MHz_ERP

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	24.27	-4.20	17.92	<=34.77	Pass
			7	24.38	-4.20	18.03	<=34.77	Pass
			14	24.27	-4.20	17.92	<=34.77	Pass
		8	0	23.22	-4.20	16.87	<=34.77	Pass
			4	23.27	-4.20	16.92	<=34.77	Pass
			7	23.23	-4.20	16.88	<=34.77	Pass
		15	0	23.20	-4.20	16.85	<=34.77	Pass
	707.5	1	0	24.29	-4.20	17.94	<=34.77	Pass
			7	24.39	-4.20	18.04	<=34.77	Pass
			14	24.30	-4.20	17.95	<=34.77	Pass
		8	0	23.23	-4.20	16.88	<=34.77	Pass
			4	23.27	-4.20	16.92	<=34.77	Pass
			7	23.25	-4.20	16.90	<=34.77	Pass
		15	0	23.21	-4.20	16.86	<=34.77	Pass
	714.5	1	0	24.26	-4.20	17.91	<=34.77	Pass
			7	24.43	-4.20	18.08	<=34.77	Pass
			14	24.31	-4.20	17.96	<=34.77	Pass
		8	0	23.31	-4.20	16.96	<=34.77	Pass
			4	23.34	-4.20	16.99	<=34.77	Pass
			7	23.31	-4.20	16.96	<=34.77	Pass
		15	0	23.28	-4.20	16.93	<=34.77	Pass
16QAM	700.5	1	0	23.65	-4.20	17.30	<=34.77	Pass
			7	23.76	-4.20	17.41	<=34.77	Pass
			14	23.71	-4.20	17.36	<=34.77	Pass
		8	0	22.36	-4.20	16.01	<=34.77	Pass
			4	22.46	-4.20	16.11	<=34.77	Pass
			7	22.45	-4.20	16.10	<=34.77	Pass
		15	0	22.31	-4.20	15.96	<=34.77	Pass
	707.5	1	0	23.31	-4.20	16.96	<=34.77	Pass
			7	23.38	-4.20	17.03	<=34.77	Pass
			14	23.22	-4.20	16.87	<=34.77	Pass
		8	0	22.34	-4.20	15.99	<=34.77	Pass
			4	22.37	-4.20	16.02	<=34.77	Pass
			7	22.33	-4.20	15.98	<=34.77	Pass
		15	0	22.32	-4.20	15.97	<=34.77	Pass
	714.5	1	0	23.40	-4.20	17.05	<=34.77	Pass
			7	23.59	-4.20	17.24	<=34.77	Pass
			14	23.44	-4.20	17.09	<=34.77	Pass
		8	0	22.32	-4.20	15.97	<=34.77	Pass
			4	22.36	-4.20	16.01	<=34.77	Pass
			7	22.31	-4.20	15.96	<=34.77	Pass
		15	0	22.29	-4.20	15.94	<=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	24.13	-4.20	17.78	<=34.77	Pass
			13	24.28	-4.20	17.93	<=34.77	Pass
			24	24.20	-4.20	17.85	<=34.77	Pass
		12	0	23.19	-4.20	16.84	<=34.77	Pass
			6	23.23	-4.20	16.88	<=34.77	Pass
			13	23.18	-4.20	16.83	<=34.77	Pass
		25	0	23.15	-4.20	16.80	<=34.77	Pass
	707.5	1	0	24.12	-4.20	17.77	<=34.77	Pass
			13	24.24	-4.20	17.89	<=34.77	Pass

		12	24	24.18	-4.20	17.83	<=34.77	Pass	
			0	23.22	-4.20	16.87	<=34.77	Pass	
			6	23.26	-4.20	16.91	<=34.77	Pass	
			13	23.25	-4.20	16.90	<=34.77	Pass	
		25	0	23.23	-4.20	16.88	<=34.77	Pass	
	713.5	1	0	24.16	-4.20	17.81	<=34.77	Pass	
			13	24.28	-4.20	17.93	<=34.77	Pass	
			24	24.21	-4.20	17.86	<=34.77	Pass	
		12	0	23.28	-4.20	16.93	<=34.77	Pass	
			6	23.27	-4.20	16.92	<=34.77	Pass	
			13	23.24	-4.20	16.89	<=34.77	Pass	
		25	0	23.25	-4.20	16.90	<=34.77	Pass	
16QAM	701.5	1	0	23.16	-4.20	16.81	<=34.77	Pass	
			13	23.30	-4.20	16.95	<=34.77	Pass	
			24	23.30	-4.20	16.95	<=34.77	Pass	
		12	0	22.17	-4.20	15.82	<=34.77	Pass	
			6	22.27	-4.20	15.92	<=34.77	Pass	
			13	22.18	-4.20	15.83	<=34.77	Pass	
		25	0	22.21	-4.20	15.86	<=34.77	Pass	
		707.5	1	0	23.40	-4.20	17.05	<=34.77	Pass
				13	23.46	-4.20	17.11	<=34.77	Pass
	24			23.37	-4.20	17.02	<=34.77	Pass	
	12		0	22.27	-4.20	15.92	<=34.77	Pass	
			6	22.33	-4.20	15.98	<=34.77	Pass	
			13	22.32	-4.20	15.97	<=34.77	Pass	
	25		0	22.26	-4.20	15.91	<=34.77	Pass	
	713.5		1	0	22.99	-4.20	16.64	<=34.77	Pass
				13	23.10	-4.20	16.75	<=34.77	Pass
		24		23.05	-4.20	16.70	<=34.77	Pass	
		12	0	22.33	-4.20	15.98	<=34.77	Pass	
			6	22.32	-4.20	15.97	<=34.77	Pass	
			13	22.25	-4.20	15.90	<=34.77	Pass	
		25	0	22.35	-4.20	16.00	<=34.77	Pass	
	Note1: ERP=Conducted Power+Antenna Gain-2.15								

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	24.20	-4.20	17.85	<=34.77	Pass
			25	24.41	-4.20	18.06	<=34.77	Pass
			49	24.26	-4.20	17.91	<=34.77	Pass
		25	0	23.31	-4.20	16.96	<=34.77	Pass
			13	23.33	-4.20	16.98	<=34.77	Pass
			25	23.35	-4.20	17.00	<=34.77	Pass
		50	0	23.35	-4.20	17.00	<=34.77	Pass
		1	0	24.21	-4.20	17.86	<=34.77	Pass
			25	24.38	-4.20	18.03	<=34.77	Pass
			49	24.30	-4.20	17.95	<=34.77	Pass
		25	0	23.30	-4.20	16.95	<=34.77	Pass
			13	23.29	-4.20	16.94	<=34.77	Pass
			25	23.30	-4.20	16.95	<=34.77	Pass
		50	0	23.34	-4.20	16.99	<=34.77	Pass
	711	1	0	24.23	-4.20	17.88	<=34.77	Pass
			25	24.49	-4.20	18.14	<=34.77	Pass
			49	24.38	-4.20	18.03	<=34.77	Pass
		25	0	23.16	-4.20	16.81	<=34.77	Pass

16QAM	704	50	13	23.27	-4.20	16.92	<=34.77	Pass
			25	23.16	-4.20	16.81	<=34.77	Pass
			0	23.21	-4.20	16.86	<=34.77	Pass
		1	0	23.29	-4.20	16.94	<=34.77	Pass
			25	23.59	-4.20	17.24	<=34.77	Pass
			49	23.39	-4.20	17.04	<=34.77	Pass
		25	0	22.40	-4.20	16.05	<=34.77	Pass
			13	22.38	-4.20	16.03	<=34.77	Pass
			25	22.44	-4.20	16.09	<=34.77	Pass
		50	0	22.41	-4.20	16.06	<=34.77	Pass
	707.5	1	0	23.76	-4.20	17.41	<=34.77	Pass
			25	23.87	-4.20	17.52	<=34.77	Pass
			49	23.77	-4.20	17.42	<=34.77	Pass
		25	0	22.42	-4.20	16.07	<=34.77	Pass
			13	22.36	-4.20	16.01	<=34.77	Pass
			25	22.43	-4.20	16.08	<=34.77	Pass
		50	0	22.39	-4.20	16.04	<=34.77	Pass
	711	1	0	23.24	-4.20	16.89	<=34.77	Pass
			25	23.40	-4.20	17.05	<=34.77	Pass
			49	23.34	-4.20	16.99	<=34.77	Pass
		25	0	22.30	-4.20	15.95	<=34.77	Pass
			13	22.43	-4.20	16.08	<=34.77	Pass
			25	22.33	-4.20	15.98	<=34.77	Pass
		50	0	22.29	-4.20	15.94	<=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	-1.101	-0.0016	-2.5 to 2.5	Pass
					3.85	-6.466	-0.0092	-2.5 to 2.5	Pass
					4.43	-7.410	-0.0106	-2.5 to 2.5	Pass
				-30	3.85	-7.524	-0.0108	-2.5 to 2.5	Pass
				-20	3.85	-6.652	-0.0095	-2.5 to 2.5	Pass
				-10	3.85	-7.367	-0.0105	-2.5 to 2.5	Pass
				0	3.85	-5.922	-0.0085	-2.5 to 2.5	Pass
				10	3.85	-7.725	-0.0110	-2.5 to 2.5	Pass
				30	3.85	-7.138	-0.0102	-2.5 to 2.5	Pass
				40	3.85	-7.553	-0.0108	-2.5 to 2.5	Pass
	707.5	6	0	20	3.85	-6.623	-0.0095	-2.5 to 2.5	Pass
					3.27	-6.194	-0.0088	-2.5 to 2.5	Pass
					3.85	-7.253	-0.0103	-2.5 to 2.5	Pass
				-30	4.43	-6.580	-0.0093	-2.5 to 2.5	Pass
					3.85	-3.819	-0.0054	-2.5 to 2.5	Pass
					3.85	-6.781	-0.0096	-2.5 to 2.5	Pass
				-20	3.85	-7.768	-0.0110	-2.5 to 2.5	Pass
				-10	3.85	-2.747	-0.0039	-2.5 to 2.5	Pass
				0	3.85	-6.251	-0.0088	-2.5 to 2.5	Pass
				10	3.85	-6.866	-0.0097	-2.5 to 2.5	Pass
				30	3.85	-4.191	-0.0059	-2.5 to 2.5	Pass

16QAM	715.3	6	0	50	3.85	-8.111	-0.0115	-2.5 to 2.5	Pass
				20	3.27	-6.123	-0.0086	-2.5 to 2.5	Pass
					3.85	-7.868	-0.0110	-2.5 to 2.5	Pass
					4.43	-5.379	-0.0075	-2.5 to 2.5	Pass
				-30	3.85	-6.466	-0.0090	-2.5 to 2.5	Pass
				-20	3.85	-5.221	-0.0073	-2.5 to 2.5	Pass
				-10	3.85	-4.148	-0.0058	-2.5 to 2.5	Pass
				0	3.85	-5.150	-0.0072	-2.5 to 2.5	Pass
				10	3.85	-8.068	-0.0113	-2.5 to 2.5	Pass
				30	3.85	-5.322	-0.0074	-2.5 to 2.5	Pass
				40	3.85	-5.479	-0.0077	-2.5 to 2.5	Pass
				50	3.85	-8.941	-0.0125	-2.5 to 2.5	Pass
16QAM	699.7	6	0	20	3.27	-7.997	-0.0114	-2.5 to 2.5	Pass
					3.85	-7.954	-0.0114	-2.5 to 2.5	Pass
					4.43	-8.054	-0.0115	-2.5 to 2.5	Pass
					3.85	-8.039	-0.0115	-2.5 to 2.5	Pass
				-30	3.85	-8.140	-0.0116	-2.5 to 2.5	Pass
				-20	3.85	-7.696	-0.0110	-2.5 to 2.5	Pass
				-10	3.85	-8.211	-0.0117	-2.5 to 2.5	Pass
				0	3.85	-7.496	-0.0107	-2.5 to 2.5	Pass
				10	3.85	-12.589	-0.0180	-2.5 to 2.5	Pass
				30	3.85	-7.267	-0.0104	-2.5 to 2.5	Pass
				40	3.85	-8.011	-0.0114	-2.5 to 2.5	Pass
				50	3.85	-4.692	-0.0066	-2.5 to 2.5	Pass
	707.5	6	0	20	3.85	-7.796	-0.0110	-2.5 to 2.5	Pass
					4.43	-8.626	-0.0122	-2.5 to 2.5	Pass
					3.85	-8.240	-0.0116	-2.5 to 2.5	Pass
					3.85	-7.038	-0.0099	-2.5 to 2.5	Pass
				-30	3.85	-5.450	-0.0077	-2.5 to 2.5	Pass
				-20	3.85	-4.334	-0.0061	-2.5 to 2.5	Pass
				-10	3.85	-5.322	-0.0075	-2.5 to 2.5	Pass
				0	3.85	-6.294	-0.0089	-2.5 to 2.5	Pass
				10	3.85	-4.005	-0.0057	-2.5 to 2.5	Pass
				30	3.85	-6.008	-0.0085	-2.5 to 2.5	Pass
				40	3.85	-4.048	-0.0057	-2.5 to 2.5	Pass
				50	3.85	-4.735	-0.0066	-2.5 to 2.5	Pass
16QAM	715.3	6	0	20	4.43	-8.140	-0.0114	-2.5 to 2.5	Pass
					3.85	-5.908	-0.0083	-2.5 to 2.5	Pass
					3.85	-6.852	-0.0096	-2.5 to 2.5	Pass
					3.85	-4.807	-0.0067	-2.5 to 2.5	Pass
				-30	3.85	-9.055	-0.0127	-2.5 to 2.5	Pass
				-20	3.85	-6.051	-0.0085	-2.5 to 2.5	Pass
				-10	3.85	-4.907	-0.0069	-2.5 to 2.5	Pass
				0	3.85	-8.154	-0.0114	-2.5 to 2.5	Pass
				10	3.85	-4.478	-0.0063	-2.5 to 2.5	Pass
				30	3.85	-4.478	-0.0063	-2.5 to 2.5	Pass
				40	3.85	-4.478	-0.0063	-2.5 to 2.5	Pass
				50	3.85	-4.478	-0.0063	-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	-7.925	-0.0113	-2.5 to 2.5	Pass
					3.85	-10.328	-0.0147	-2.5 to 2.5	Pass
					4.43	-10.314	-0.0147	-2.5 to 2.5	Pass
				-30	3.85	-6.194	-0.0088	-2.5 to 2.5	Pass
				-20	3.85	-5.980	-0.0085	-2.5 to 2.5	Pass
				-10	3.85	-7.668	-0.0109	-2.5 to 2.5	Pass
				0	3.85	-7.010	-0.0100	-2.5 to 2.5	Pass
				10	3.85	-7.010	-0.0100	-2.5 to 2.5	Pass

				10	3.85	-8.311	-0.0119	-2.5 to 2.5	Pass
				30	3.85	-6.623	-0.0095	-2.5 to 2.5	Pass
				40	3.85	-9.742	-0.0139	-2.5 to 2.5	Pass
				50	3.85	-9.570	-0.0137	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	-1.917	-0.0027	-2.5 to 2.5	Pass
					3.85	-3.748	-0.0053	-2.5 to 2.5	Pass
					4.43	-6.008	-0.0085	-2.5 to 2.5	Pass
				-30	3.85	-6.495	-0.0092	-2.5 to 2.5	Pass
				-20	3.85	-6.294	-0.0089	-2.5 to 2.5	Pass
				-10	3.85	-5.136	-0.0073	-2.5 to 2.5	Pass
				0	3.85	-5.651	-0.0080	-2.5 to 2.5	Pass
				10	3.85	-5.794	-0.0082	-2.5 to 2.5	Pass
				30	3.85	-6.452	-0.0091	-2.5 to 2.5	Pass
				40	3.85	-6.437	-0.0091	-2.5 to 2.5	Pass
				50	3.85	-4.478	-0.0063	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-2.618	-0.0037	-2.5 to 2.5	Pass
					3.85	-6.723	-0.0094	-2.5 to 2.5	Pass
					4.43	-5.894	-0.0082	-2.5 to 2.5	Pass
				-30	3.85	-6.137	-0.0086	-2.5 to 2.5	Pass
				-20	3.85	-7.381	-0.0103	-2.5 to 2.5	Pass
				-10	3.85	-7.553	-0.0106	-2.5 to 2.5	Pass
				0	3.85	-6.294	-0.0088	-2.5 to 2.5	Pass
				10	3.85	-6.695	-0.0094	-2.5 to 2.5	Pass
				30	3.85	-5.980	-0.0084	-2.5 to 2.5	Pass
				40	3.85	-8.411	-0.0118	-2.5 to 2.5	Pass
				50	3.85	-8.011	-0.0112	-2.5 to 2.5	Pass
16QAM	700.5	15	0	20	3.27	-6.952	-0.0099	-2.5 to 2.5	Pass
					3.85	-5.107	-0.0073	-2.5 to 2.5	Pass
					4.43	-5.193	-0.0074	-2.5 to 2.5	Pass
				-30	3.85	-6.266	-0.0089	-2.5 to 2.5	Pass
				-20	3.85	-6.881	-0.0098	-2.5 to 2.5	Pass
				-10	3.85	-9.985	-0.0143	-2.5 to 2.5	Pass
				0	3.85	-9.556	-0.0136	-2.5 to 2.5	Pass
				10	3.85	-6.351	-0.0091	-2.5 to 2.5	Pass
				30	3.85	-7.839	-0.0112	-2.5 to 2.5	Pass
				40	3.85	-10.357	-0.0148	-2.5 to 2.5	Pass
				50	3.85	-10.200	-0.0146	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	-6.909	-0.0098	-2.5 to 2.5	Pass
					3.85	-8.297	-0.0117	-2.5 to 2.5	Pass
					4.43	-9.069	-0.0128	-2.5 to 2.5	Pass
				-30	3.85	-4.606	-0.0065	-2.5 to 2.5	Pass
				-20	3.85	-7.567	-0.0107	-2.5 to 2.5	Pass
				-10	3.85	-9.069	-0.0128	-2.5 to 2.5	Pass
				0	3.85	-9.041	-0.0128	-2.5 to 2.5	Pass
				10	3.85	-6.151	-0.0087	-2.5 to 2.5	Pass
				30	3.85	-7.153	-0.0101	-2.5 to 2.5	Pass
				40	3.85	-6.266	-0.0089	-2.5 to 2.5	Pass
				50	3.85	-6.781	-0.0096	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-7.854	-0.0110	-2.5 to 2.5	Pass
					3.85	-7.181	-0.0101	-2.5 to 2.5	Pass
					4.43	-3.505	-0.0049	-2.5 to 2.5	Pass
				-30	3.85	-4.249	-0.0059	-2.5 to 2.5	Pass
				-20	3.85	-8.726	-0.0122	-2.5 to 2.5	Pass
				-10	3.85	-6.323	-0.0088	-2.5 to 2.5	Pass
				0	3.85	-7.524	-0.0105	-2.5 to 2.5	Pass
				10	3.85	-10.686	-0.0150	-2.5 to 2.5	Pass
				30	3.85	-7.639	-0.0107	-2.5 to 2.5	Pass
				40	3.85	-6.824	-0.0096	-2.5 to 2.5	Pass
				50	3.85	-7.024	-0.0098	-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	-10.200	-0.0145	-2.5 to 2.5	Pass
					3.85	-9.570	-0.0136	-2.5 to 2.5	Pass
					4.43	-5.336	-0.0076	-2.5 to 2.5	Pass
				-30	3.85	-5.522	-0.0079	-2.5 to 2.5	Pass
				-20	3.85	-5.279	-0.0075	-2.5 to 2.5	Pass
				-10	3.85	-8.726	-0.0124	-2.5 to 2.5	Pass
				0	3.85	-5.436	-0.0077	-2.5 to 2.5	Pass
				10	3.85	-5.407	-0.0077	-2.5 to 2.5	Pass
				30	3.85	-5.879	-0.0084	-2.5 to 2.5	Pass
				40	3.85	-6.924	-0.0099	-2.5 to 2.5	Pass
				50	3.85	-8.869	-0.0126	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-8.383	-0.0118	-2.5 to 2.5	Pass
					3.85	-1.674	-0.0024	-2.5 to 2.5	Pass
					4.43	-5.693	-0.0080	-2.5 to 2.5	Pass
				-30	3.85	-4.191	-0.0059	-2.5 to 2.5	Pass
				-20	3.85	-5.064	-0.0072	-2.5 to 2.5	Pass
				-10	3.85	-5.136	-0.0073	-2.5 to 2.5	Pass
				0	3.85	-6.623	-0.0094	-2.5 to 2.5	Pass
				10	3.85	-3.276	-0.0046	-2.5 to 2.5	Pass
				30	3.85	-5.450	-0.0077	-2.5 to 2.5	Pass
				40	3.85	-9.871	-0.0140	-2.5 to 2.5	Pass
				50	3.85	-7.968	-0.0113	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-1.502	-0.0021	-2.5 to 2.5	Pass
					3.85	-7.753	-0.0109	-2.5 to 2.5	Pass
					4.43	-5.965	-0.0084	-2.5 to 2.5	Pass
				-30	3.85	-6.638	-0.0093	-2.5 to 2.5	Pass
				-20	3.85	-7.739	-0.0108	-2.5 to 2.5	Pass
				-10	3.85	-6.394	-0.0090	-2.5 to 2.5	Pass
				0	3.85	-6.051	-0.0085	-2.5 to 2.5	Pass
				10	3.85	-6.280	-0.0088	-2.5 to 2.5	Pass
				30	3.85	-7.410	-0.0104	-2.5 to 2.5	Pass
				40	3.85	-9.313	-0.0131	-2.5 to 2.5	Pass
16QAM	701.5	25	0	20	3.27	-8.340	-0.0119	-2.5 to 2.5	Pass
					3.85	-3.619	-0.0052	-2.5 to 2.5	Pass
					4.43	-8.111	-0.0116	-2.5 to 2.5	Pass
				-30	3.85	-7.367	-0.0105	-2.5 to 2.5	Pass
				-20	3.85	-6.166	-0.0088	-2.5 to 2.5	Pass
				-10	3.85	-5.407	-0.0077	-2.5 to 2.5	Pass
				0	3.85	-5.622	-0.0080	-2.5 to 2.5	Pass
				10	3.85	-8.898	-0.0127	-2.5 to 2.5	Pass
				30	3.85	-7.038	-0.0100	-2.5 to 2.5	Pass
				40	3.85	-8.039	-0.0115	-2.5 to 2.5	Pass
				50	3.85	-4.234	-0.0060	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-6.523	-0.0092	-2.5 to 2.5	Pass
					3.85	-7.281	-0.0103	-2.5 to 2.5	Pass
					4.43	-7.153	-0.0101	-2.5 to 2.5	Pass
				-30	3.85	-6.738	-0.0095	-2.5 to 2.5	Pass
				-20	3.85	-7.253	-0.0103	-2.5 to 2.5	Pass
				-10	3.85	-7.725	-0.0109	-2.5 to 2.5	Pass
				0	3.85	-12.102	-0.0171	-2.5 to 2.5	Pass
				10	3.85	-7.510	-0.0106	-2.5 to 2.5	Pass

	713.5	25	0	30	3.85	-8.883	-0.0126	-2.5 to 2.5	Pass
				40	3.85	-2.203	-0.0031	-2.5 to 2.5	Pass
				50	3.85	-5.980	-0.0085	-2.5 to 2.5	Pass
				20	3.27	-6.995	-0.0098	-2.5 to 2.5	Pass
					3.85	-4.807	-0.0067	-2.5 to 2.5	Pass
					4.43	-8.097	-0.0113	-2.5 to 2.5	Pass
				-30	3.85	-8.197	-0.0115	-2.5 to 2.5	Pass
				-20	3.85	-8.211	-0.0115	-2.5 to 2.5	Pass
				-10	3.85	-9.584	-0.0134	-2.5 to 2.5	Pass
				0	3.85	-6.266	-0.0088	-2.5 to 2.5	Pass
				10	3.85	-7.024	-0.0098	-2.5 to 2.5	Pass
				30	3.85	-3.562	-0.0050	-2.5 to 2.5	Pass
				40	3.85	-2.718	-0.0038	-2.5 to 2.5	Pass
				50	3.85	-0.358	-0.0005	-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	-6.223	-0.0088	-2.5 to 2.5	Pass
					3.85	-8.540	-0.0121	-2.5 to 2.5	Pass
					4.43	-3.676	-0.0052	-2.5 to 2.5	Pass
				-30	3.85	-3.605	-0.0051	-2.5 to 2.5	Pass
				-20	3.85	-5.364	-0.0076	-2.5 to 2.5	Pass
				-10	3.85	-3.390	-0.0048	-2.5 to 2.5	Pass
				0	3.85	-4.706	-0.0067	-2.5 to 2.5	Pass
				10	3.85	-5.493	-0.0078	-2.5 to 2.5	Pass
				30	3.85	-5.522	-0.0078	-2.5 to 2.5	Pass
				40	3.85	-4.692	-0.0067	-2.5 to 2.5	Pass
				50	3.85	-9.112	-0.0129	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-4.578	-0.0065	-2.5 to 2.5	Pass
					3.85	-5.922	-0.0084	-2.5 to 2.5	Pass
					4.43	-7.310	-0.0103	-2.5 to 2.5	Pass
				-30	3.85	-8.082	-0.0114	-2.5 to 2.5	Pass
				-20	3.85	-3.819	-0.0054	-2.5 to 2.5	Pass
				-10	3.85	-6.437	-0.0091	-2.5 to 2.5	Pass
				0	3.85	-8.140	-0.0115	-2.5 to 2.5	Pass
				10	3.85	-8.812	-0.0125	-2.5 to 2.5	Pass
				30	3.85	-4.549	-0.0064	-2.5 to 2.5	Pass
				40	3.85	-8.397	-0.0119	-2.5 to 2.5	Pass
				50	3.85	-9.384	-0.0133	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-3.433	-0.0048	-2.5 to 2.5	Pass
					3.85	-6.924	-0.0097	-2.5 to 2.5	Pass
					4.43	-2.861	-0.0040	-2.5 to 2.5	Pass
				-30	3.85	-4.106	-0.0058	-2.5 to 2.5	Pass
				-20	3.85	-4.864	-0.0068	-2.5 to 2.5	Pass
				-10	3.85	-5.736	-0.0081	-2.5 to 2.5	Pass
				0	3.85	-5.379	-0.0076	-2.5 to 2.5	Pass
				10	3.85	-1.616	-0.0023	-2.5 to 2.5	Pass
				30	3.85	-4.120	-0.0058	-2.5 to 2.5	Pass
				40	3.85	-8.011	-0.0113	-2.5 to 2.5	Pass
				50	3.85	-7.138	-0.0100	-2.5 to 2.5	Pass
16QAM	704	50	0	20	3.27	-6.938	-0.0099	-2.5 to 2.5	Pass
					3.85	-2.246	-0.0032	-2.5 to 2.5	Pass
					4.43	-5.035	-0.0072	-2.5 to 2.5	Pass
				-30	3.85	-5.021	-0.0071	-2.5 to 2.5	Pass
				-20	3.85	-5.679	-0.0081	-2.5 to 2.5	Pass

				-10	3.85	-3.018	-0.0043	-2.5 to 2.5	Pass
				0	3.85	-5.693	-0.0081	-2.5 to 2.5	Pass
				10	3.85	-7.753	-0.0110	-2.5 to 2.5	Pass
				30	3.85	-9.370	-0.0133	-2.5 to 2.5	Pass
				40	3.85	-4.392	-0.0062	-2.5 to 2.5	Pass
				50	3.85	-5.164	-0.0073	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-3.991	-0.0056	-2.5 to 2.5	Pass
					3.85	-3.462	-0.0049	-2.5 to 2.5	Pass
					4.43	-8.025	-0.0113	-2.5 to 2.5	Pass
				-30	3.85	-8.054	-0.0114	-2.5 to 2.5	Pass
				-20	3.85	-11.687	-0.0165	-2.5 to 2.5	Pass
				-10	3.85	-8.082	-0.0114	-2.5 to 2.5	Pass
				0	3.85	-4.678	-0.0066	-2.5 to 2.5	Pass
				10	3.85	-4.606	-0.0065	-2.5 to 2.5	Pass
				30	3.85	-8.497	-0.0120	-2.5 to 2.5	Pass
				40	3.85	-8.011	-0.0113	-2.5 to 2.5	Pass
				50	3.85	-4.935	-0.0070	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-2.074	-0.0029	-2.5 to 2.5	Pass
					3.85	-5.035	-0.0071	-2.5 to 2.5	Pass
					4.43	-3.662	-0.0052	-2.5 to 2.5	Pass
				-30	3.85	-4.878	-0.0069	-2.5 to 2.5	Pass
				-20	3.85	-5.279	-0.0074	-2.5 to 2.5	Pass
				-10	3.85	-7.482	-0.0105	-2.5 to 2.5	Pass
				0	3.85	-9.871	-0.0139	-2.5 to 2.5	Pass
				10	3.85	-8.454	-0.0119	-2.5 to 2.5	Pass
				30	3.85	-3.076	-0.0043	-2.5 to 2.5	Pass
				40	3.85	-4.964	-0.0070	-2.5 to 2.5	Pass
				50	3.85	-1.931	-0.0027	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz / NTNV						
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 / NTNV						
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 / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	

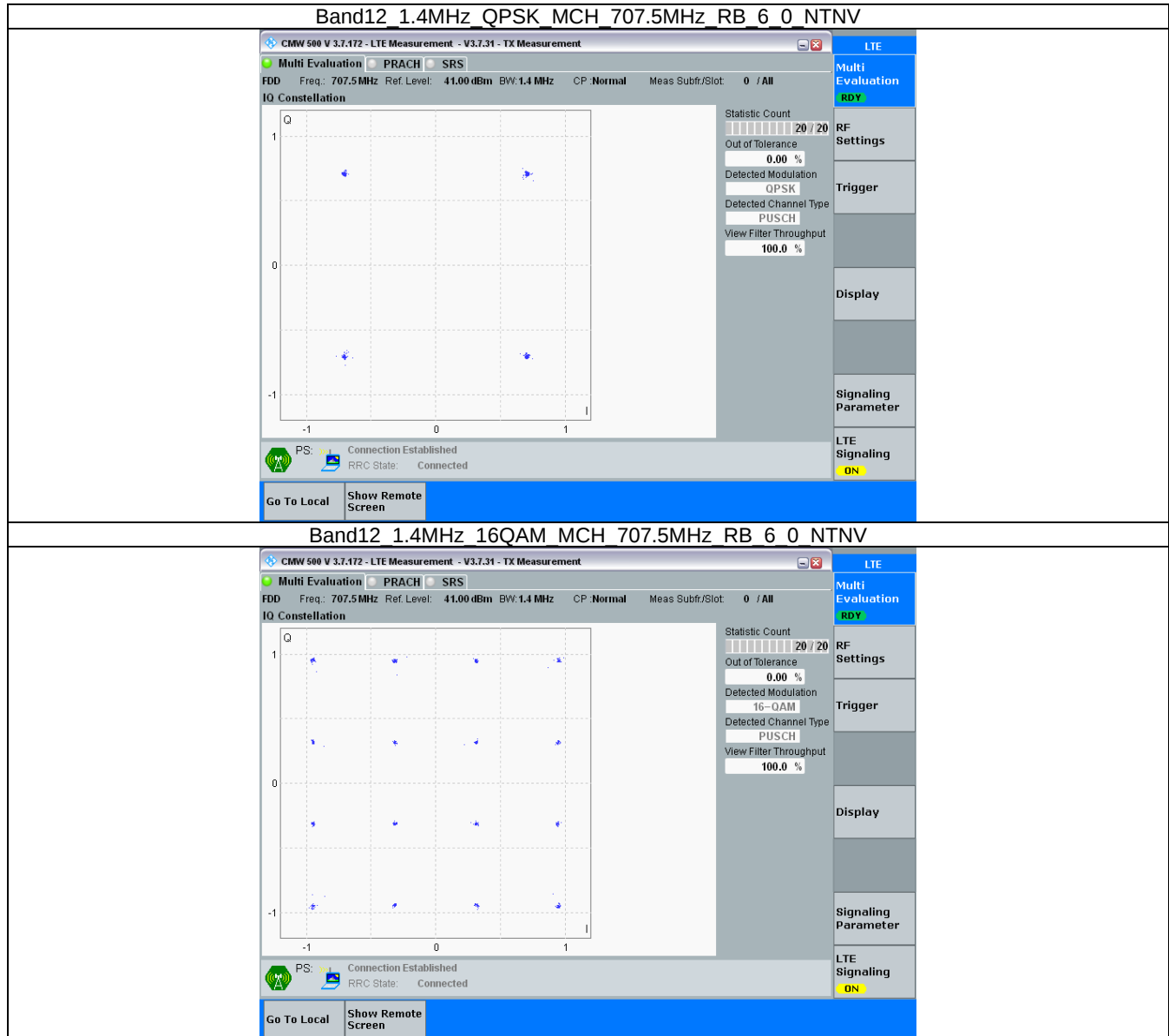
QPSK	707.5	25	0	Refer To Test Graph	Pass
16QAM	707.5	25	0	Refer To Test Graph	Pass

3.1.4 B12_10MHz

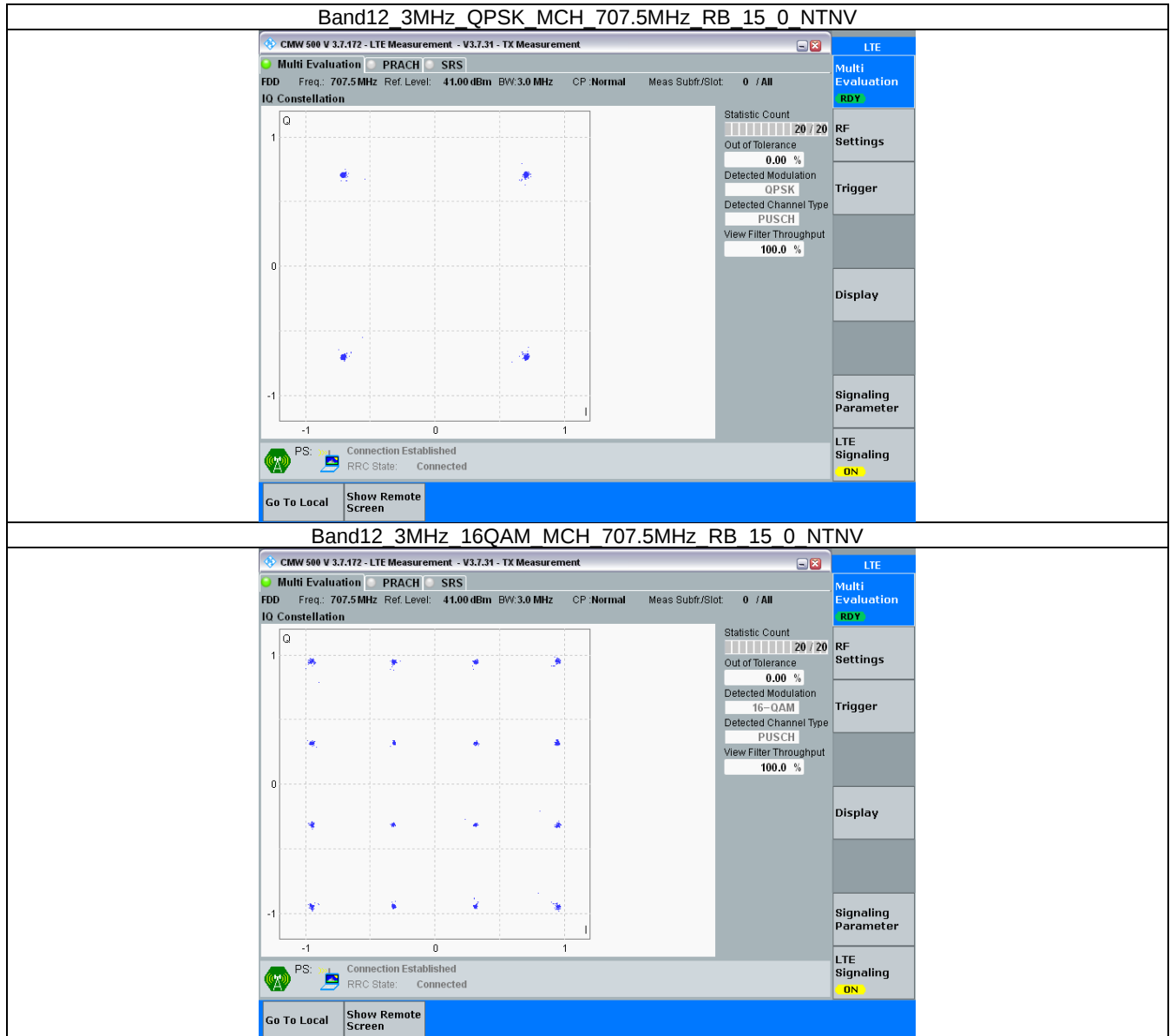
Band: 12 / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	Refer To Test Graph		Pass
16QAM	707.5	50	0	Refer To Test Graph		Pass

3.2 Test Graph

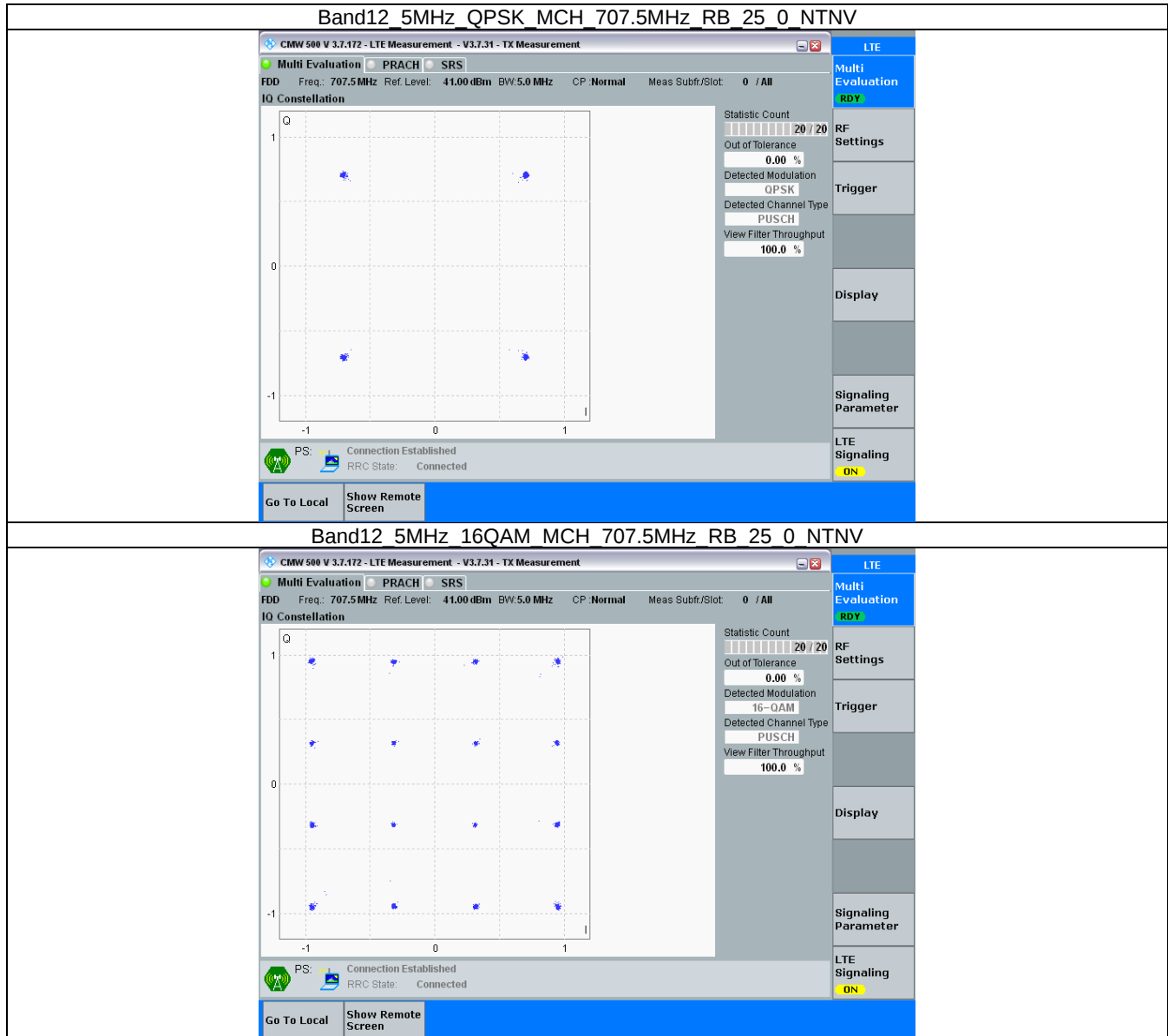
3.2.1 B12_1.4MHz



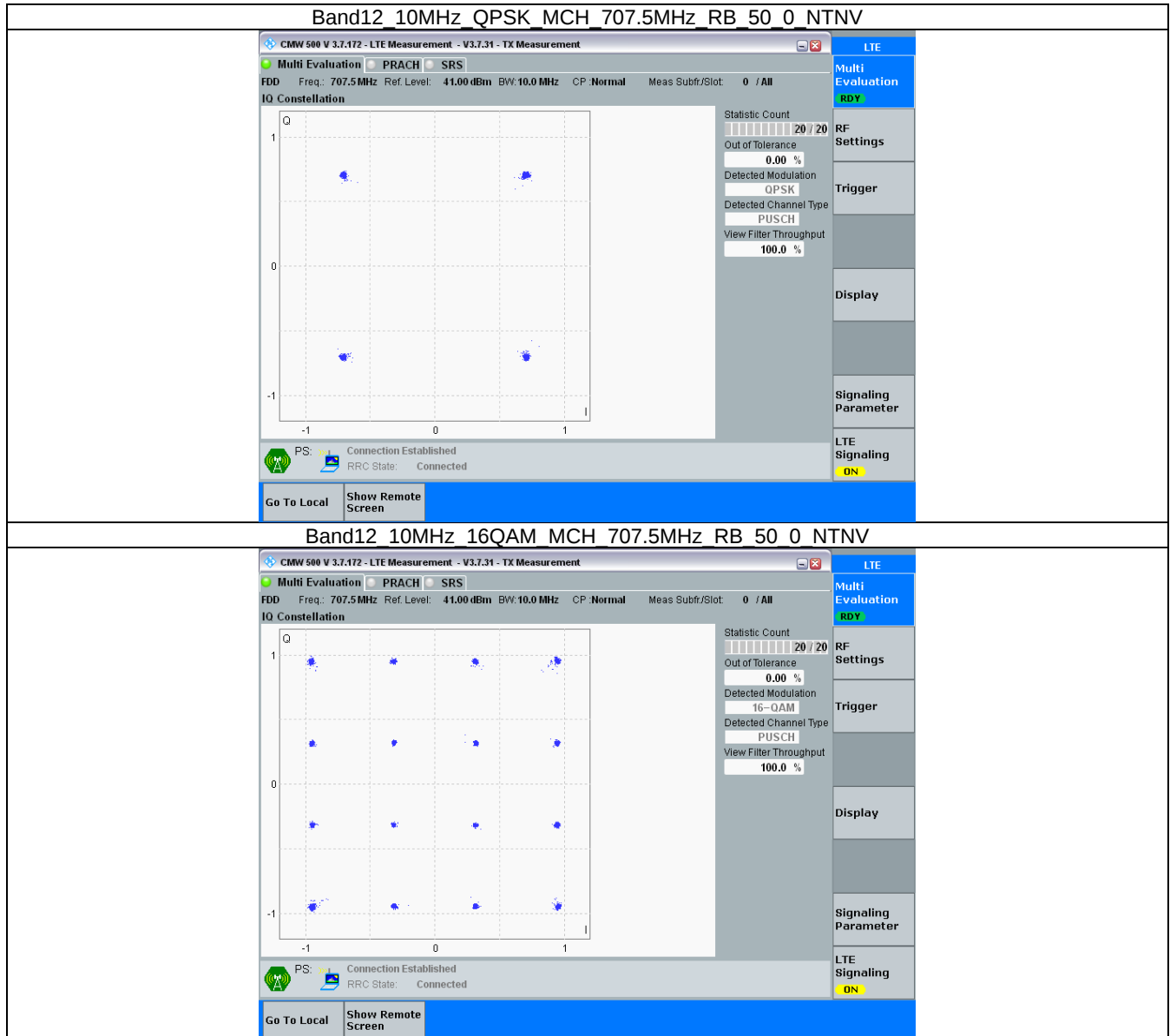
3.2.2 B12_3MHz



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	1.104	/	Pass
		707.5	6	0	1.115	/	Pass
		715.3	6	0	1.103	/	Pass
	16QAM	699.7	6	0	1.113	/	Pass
		707.5	6	0	1.107	/	Pass
		715.3	6	0	1.102	/	Pass
3	QPSK	700.5	15	0	2.718	/	Pass
		707.5	15	0	2.722	/	Pass
		714.5	15	0	2.722	/	Pass
	16QAM	700.5	15	0	2.722	/	Pass
		707.5	15	0	2.710	/	Pass
		714.5	15	0	2.730	/	Pass
5	QPSK	701.5	25	0	4.552	/	Pass
		707.5	25	0	4.592	/	Pass
		713.5	25	0	4.564	/	Pass
	16QAM	701.5	25	0	4.581	/	Pass
		707.5	25	0	4.577	/	Pass
		713.5	25	0	4.600	/	Pass
10	QPSK	704	50	0	9.120	/	Pass
		707.5	50	0	9.097	/	Pass
		711	50	0	9.020	/	Pass
	16QAM	704	50	0	9.083	/	Pass
		707.5	50	0	9.071	/	Pass
		711	50	0	9.039	/	Pass

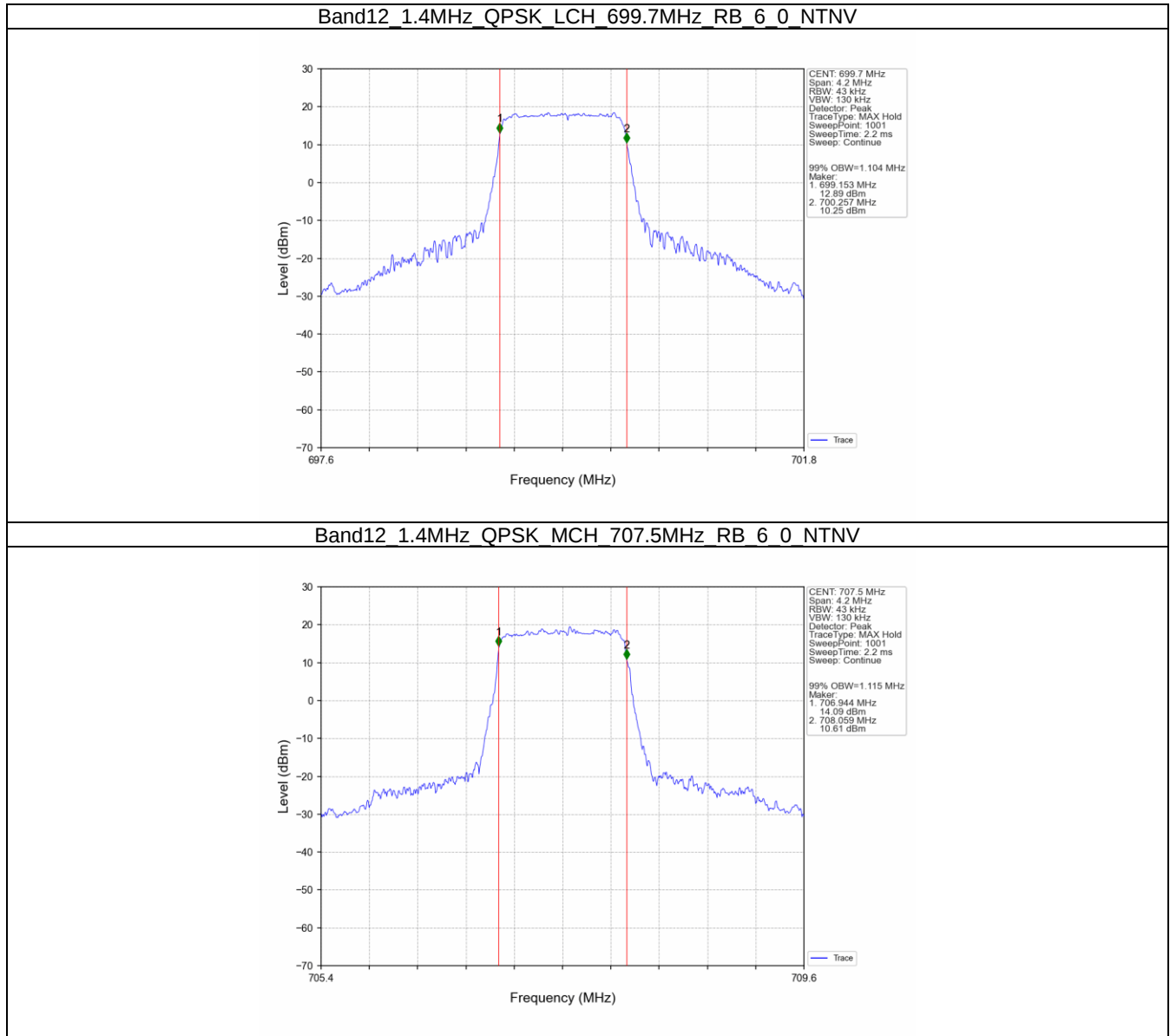
4.1.2 Band12_XDB

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	1.320	/	Pass
		707.5	6	0	1.307	/	Pass
		715.3	6	0	1.321	/	Pass
	16QAM	699.7	6	0	1.328	/	Pass
		707.5	6	0	1.318	/	Pass
		715.3	6	0	1.305	/	Pass
3	QPSK	700.5	15	0	2.976	/	Pass
		707.5	15	0	2.999	/	Pass
		714.5	15	0	2.995	/	Pass
	16QAM	700.5	15	0	3.009	/	Pass
		707.5	15	0	2.991	/	Pass
		714.5	15	0	2.999	/	Pass
5	QPSK	701.5	25	0	5.219	/	Pass
		707.5	25	0	5.179	/	Pass
		713.5	25	0	5.252	/	Pass

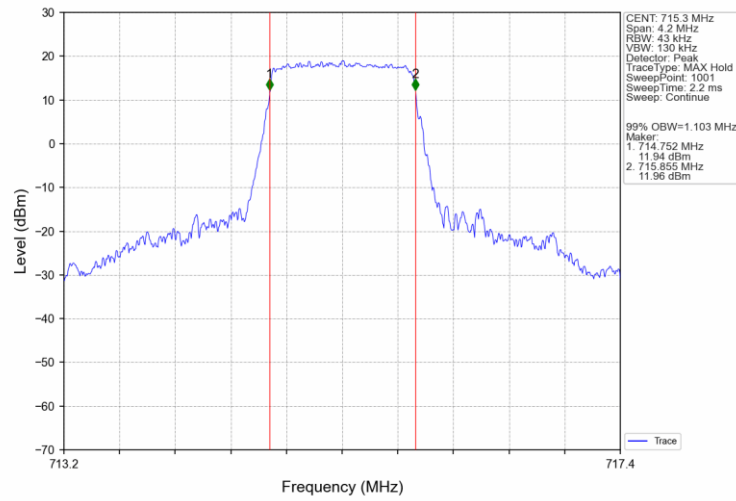
10	16QAM	701.5	25	0	5.289	/	Pass
		707.5	25	0	5.214	/	Pass
		713.5	25	0	5.298	/	Pass
	QPSK	704	50	0	10.317	/	Pass
		707.5	50	0	10.287	/	Pass
		711	50	0	10.248	/	Pass
	16QAM	704	50	0	10.250	/	Pass
		707.5	50	0	10.267	/	Pass
		711	50	0	10.337	/	Pass

4.2 Test Graph

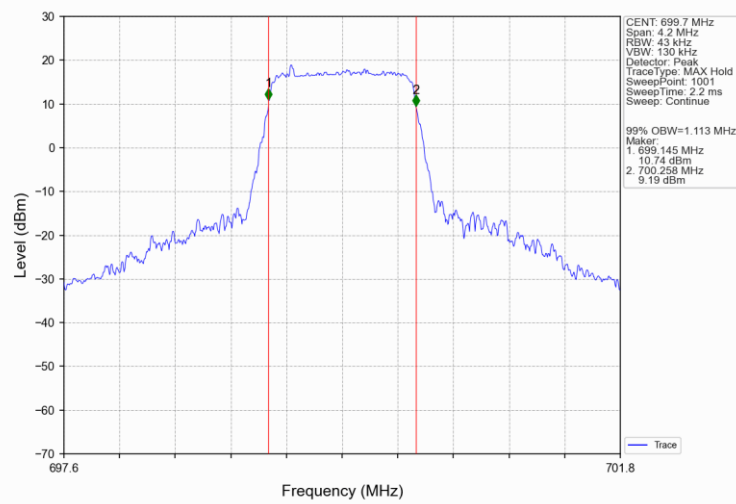
4.2.1 Band12_OBW



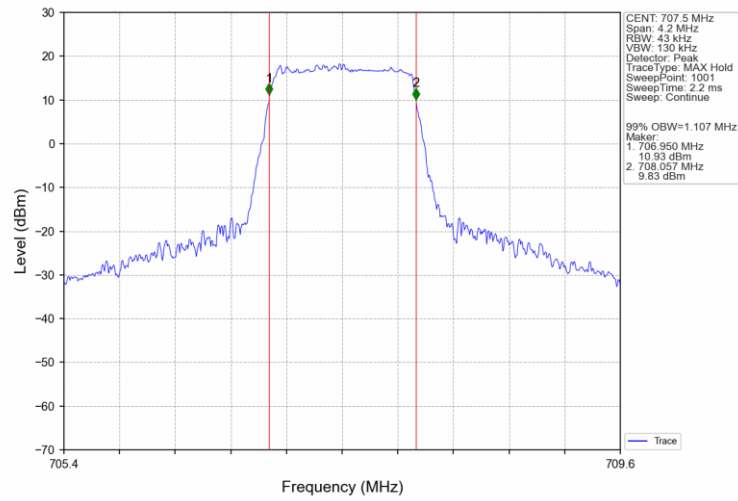
Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTV



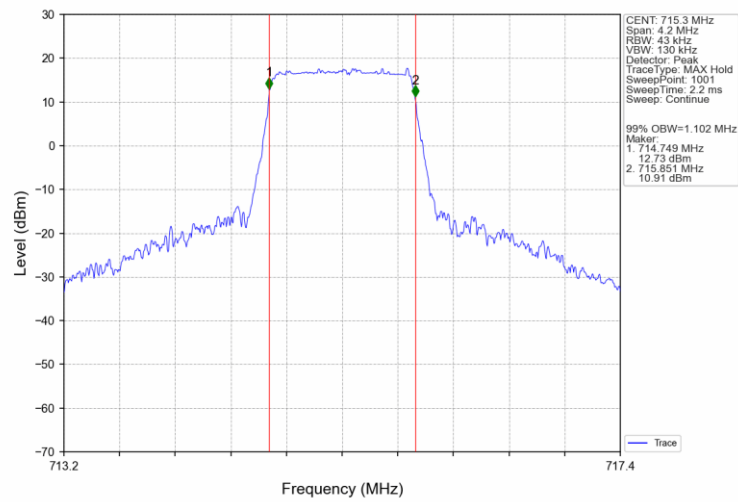
Band12 1.4MHz 16QAM LCH 699.7MHz RB 6 0 NTV



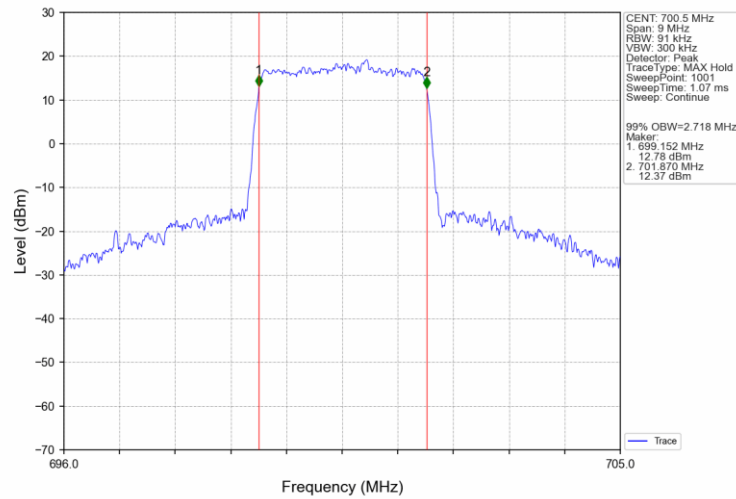
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



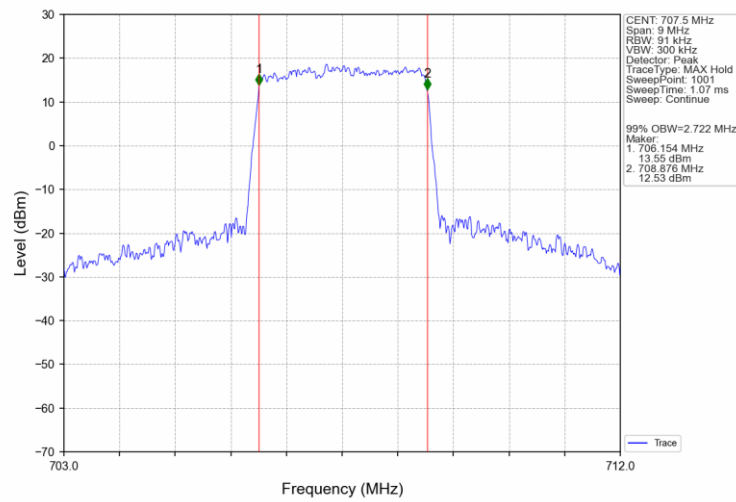
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



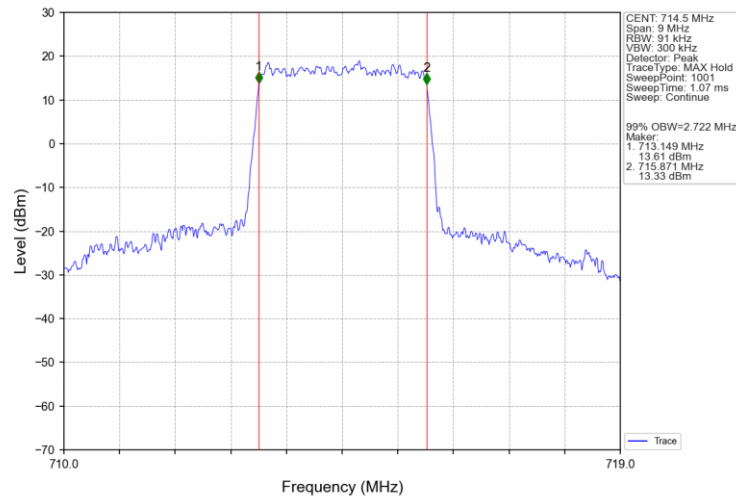
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



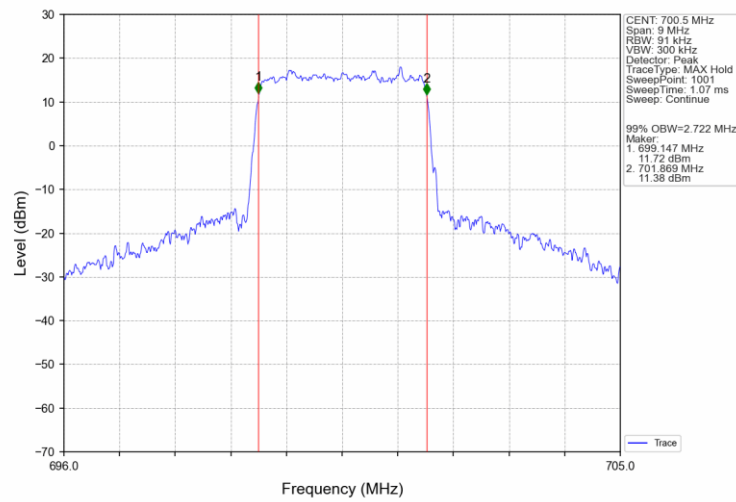
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



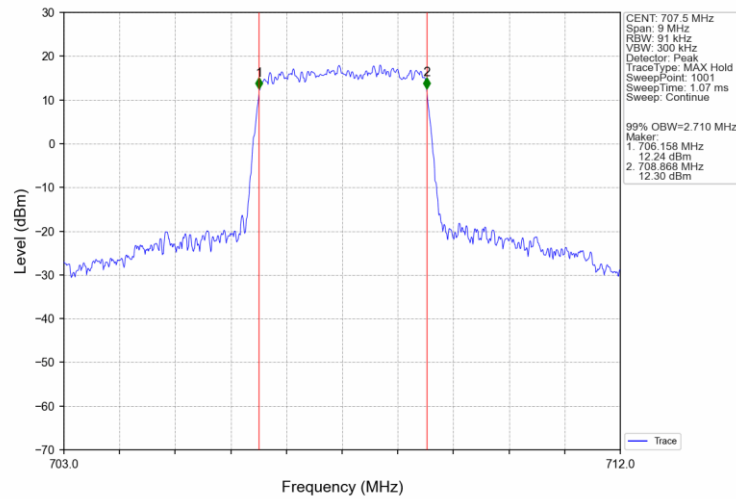
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



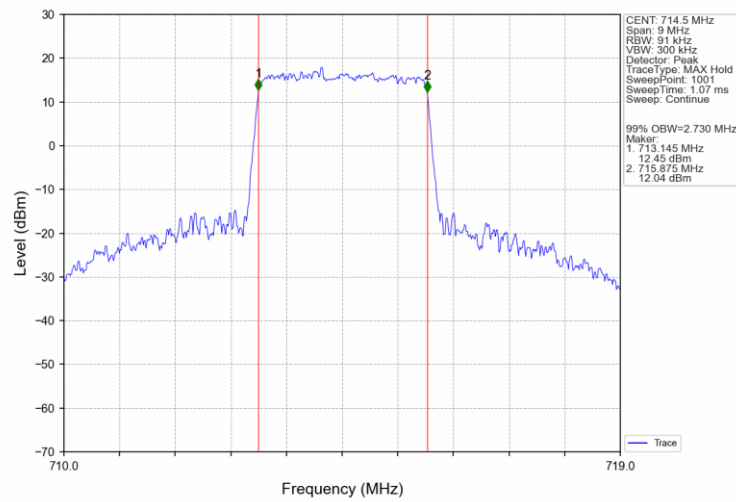
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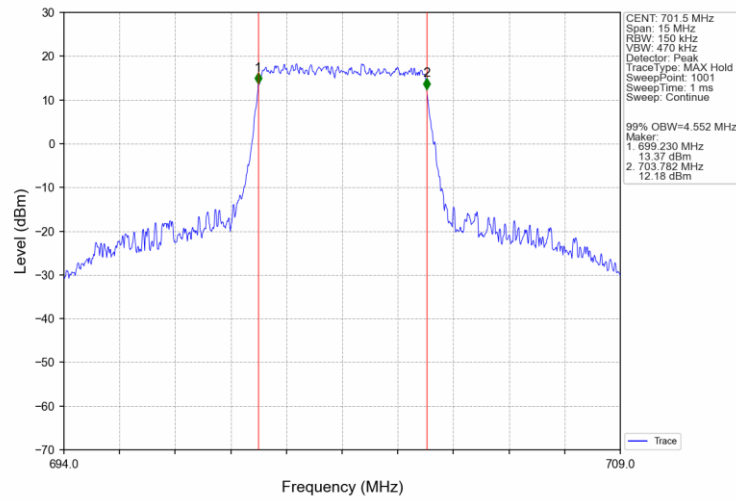
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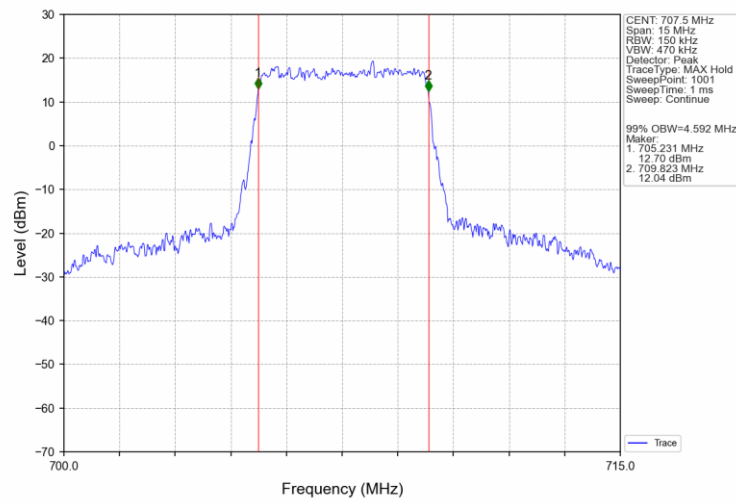
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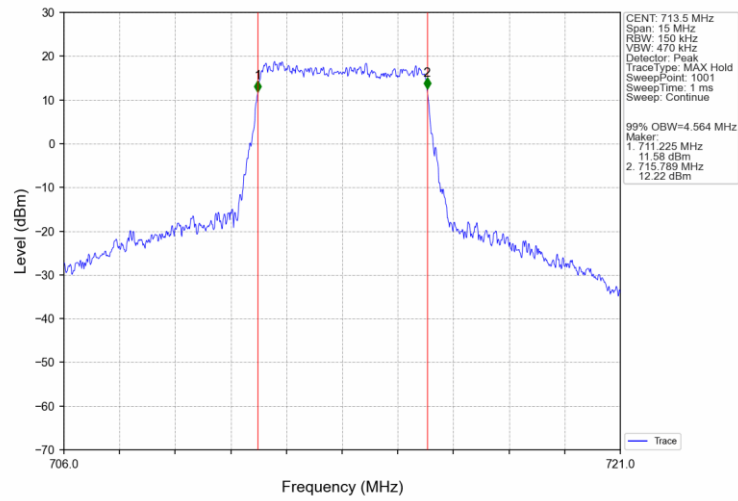
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



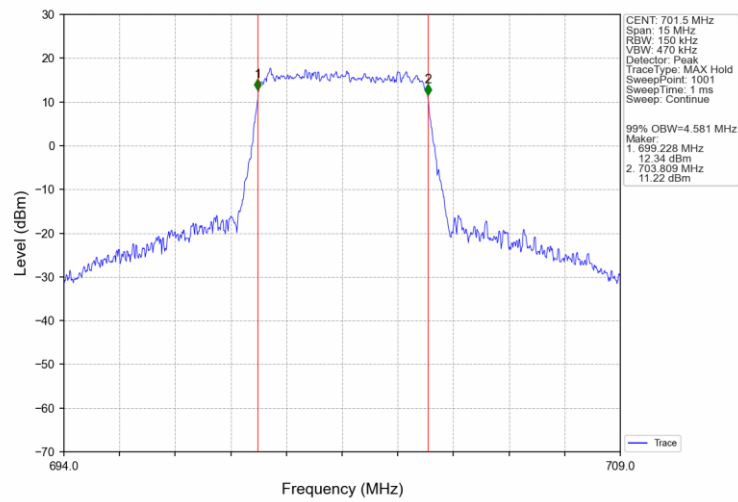
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



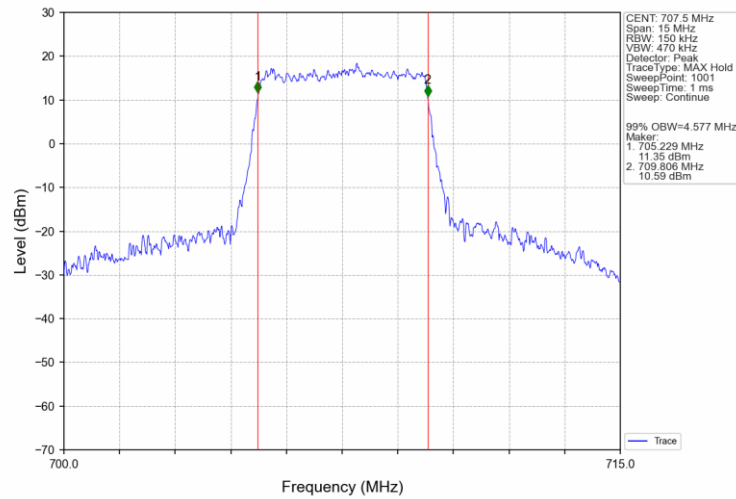
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



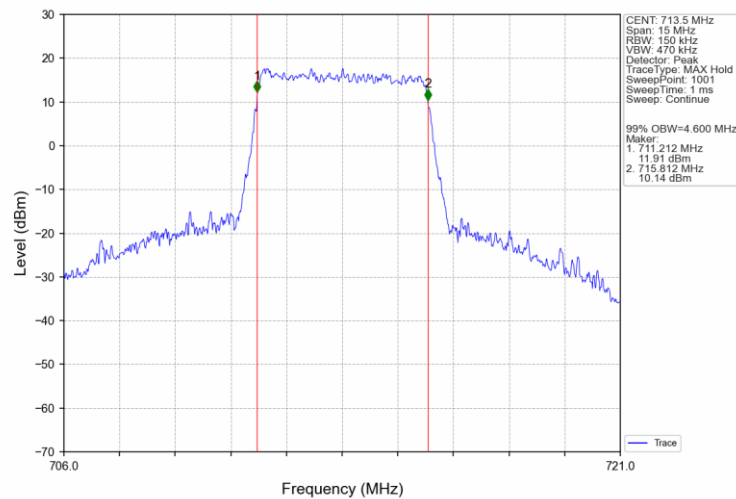
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



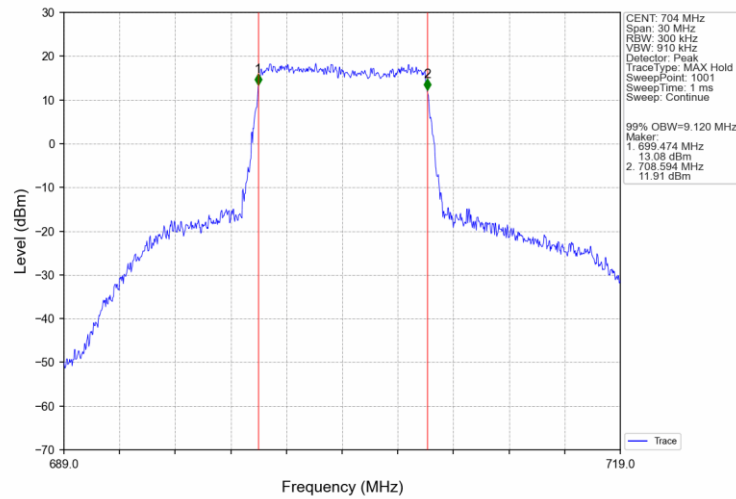
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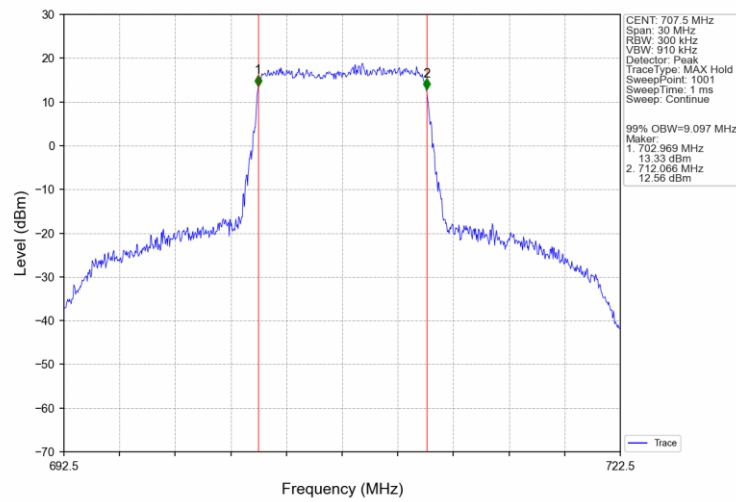
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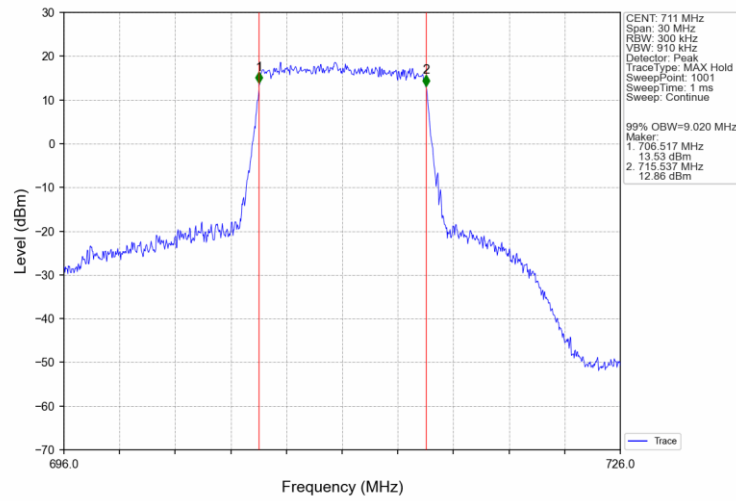
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



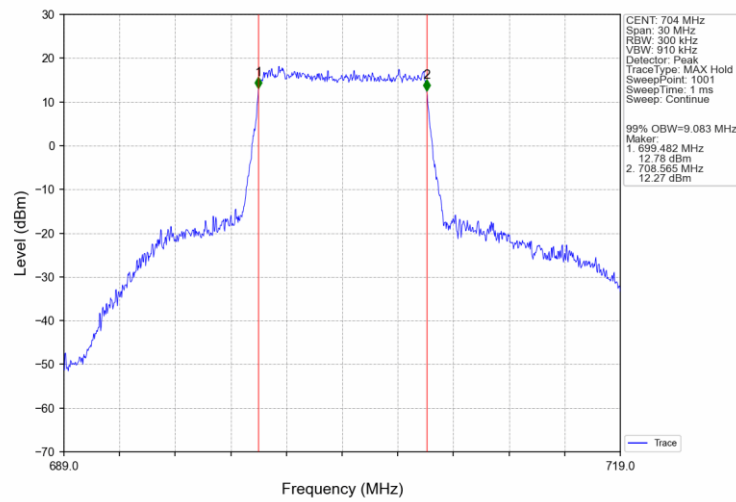
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



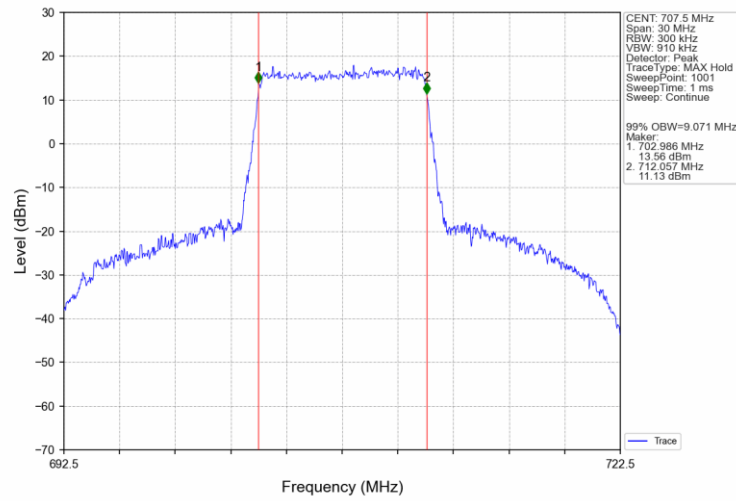
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



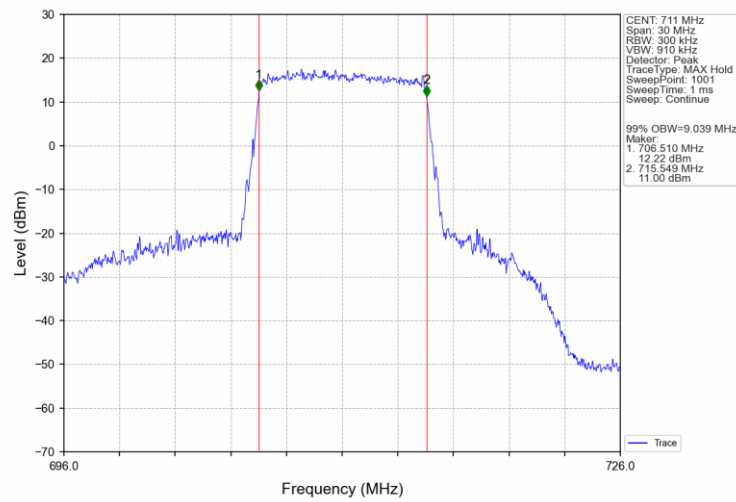
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV

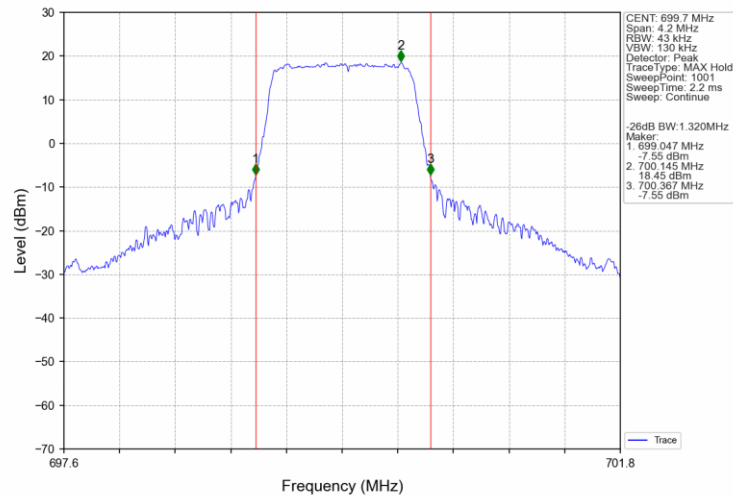


Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV

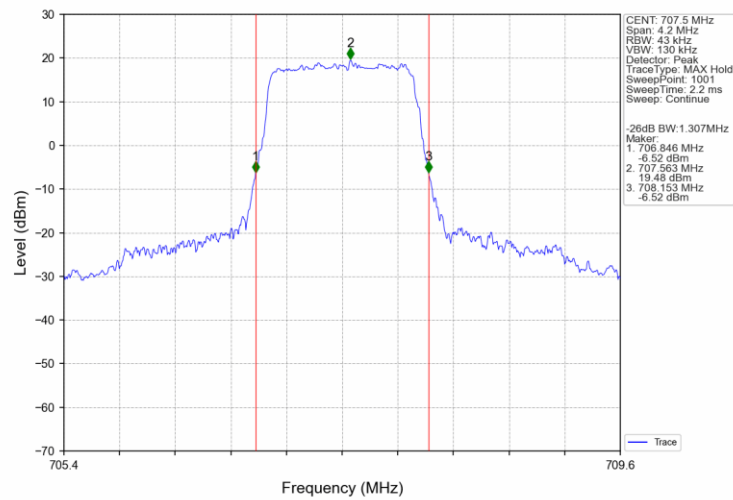


4.2.2 Band12_XDB

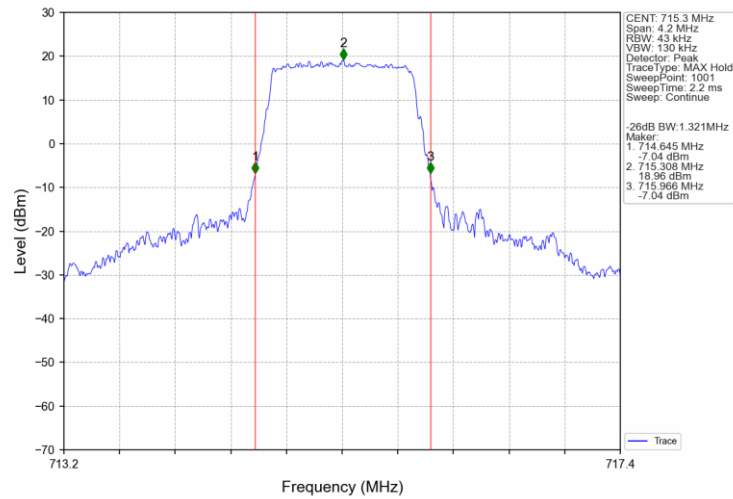
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



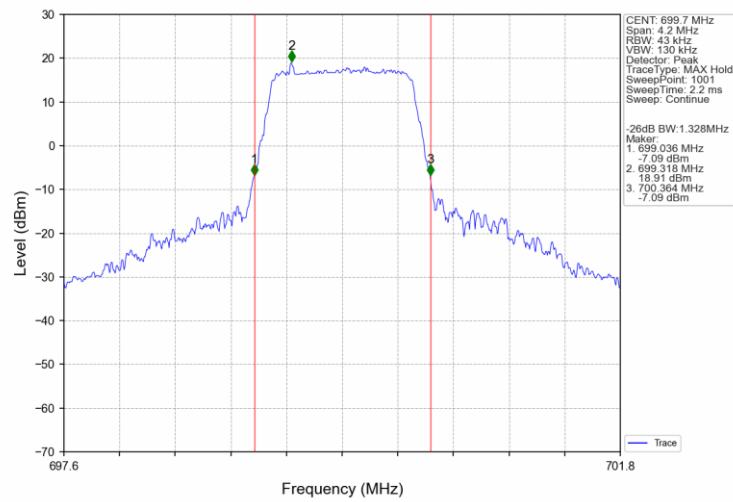
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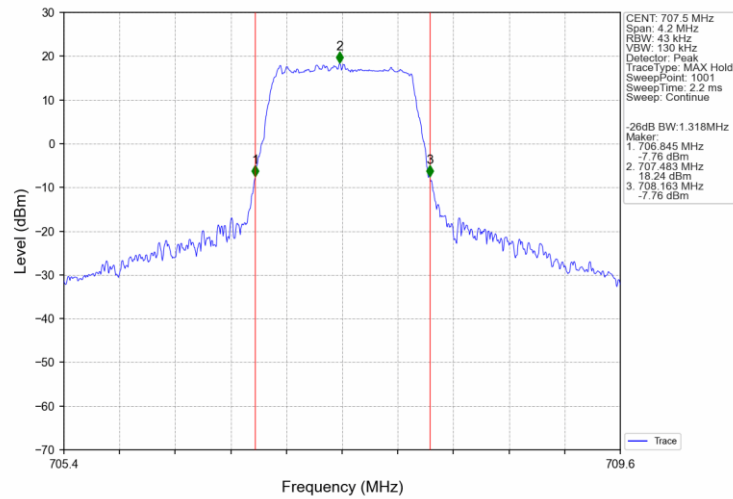
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



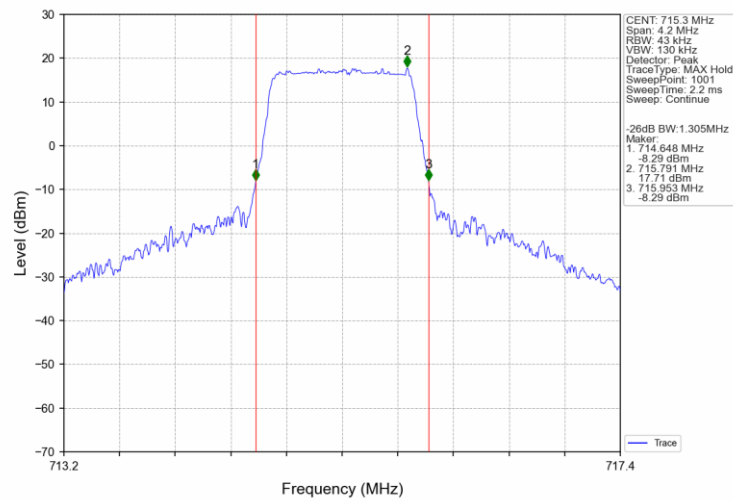
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



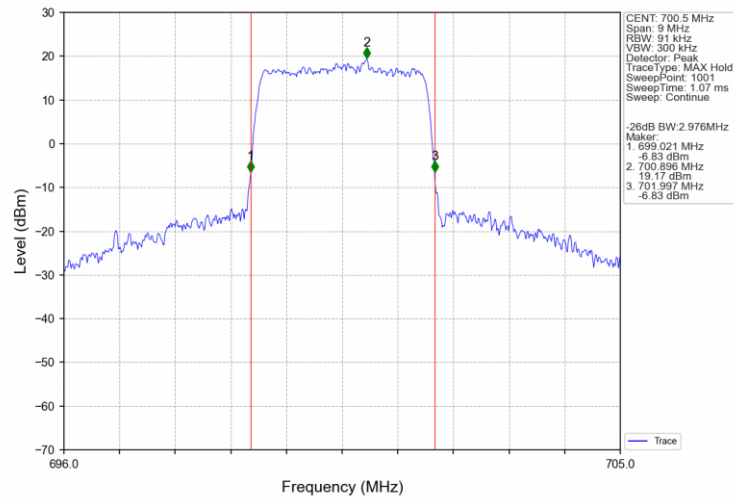
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



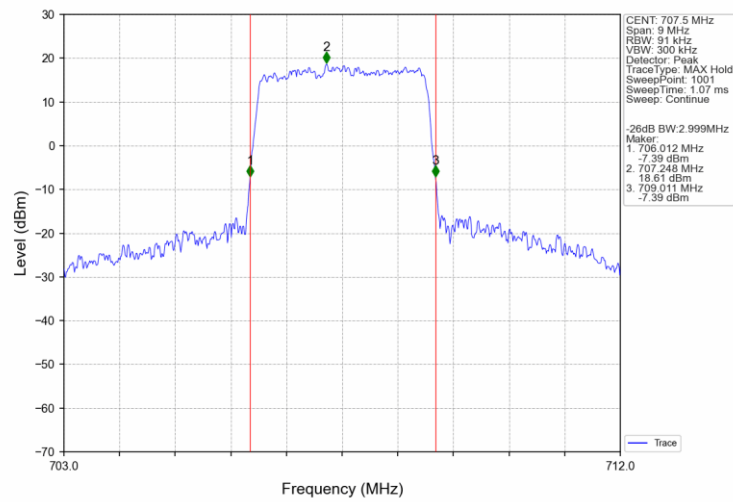
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



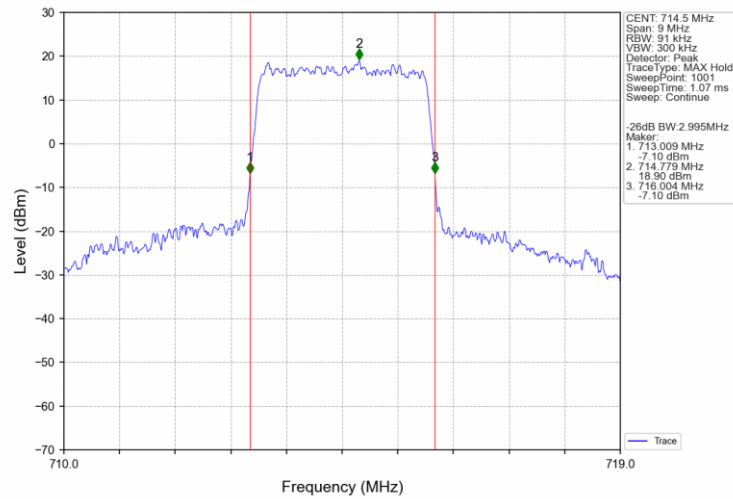
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



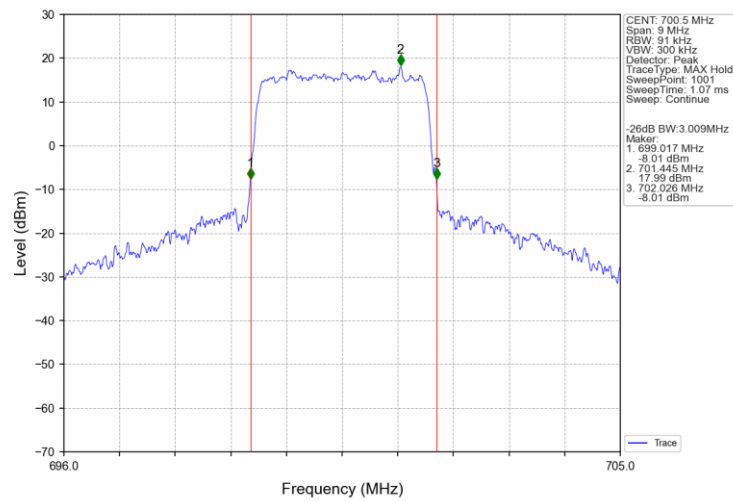
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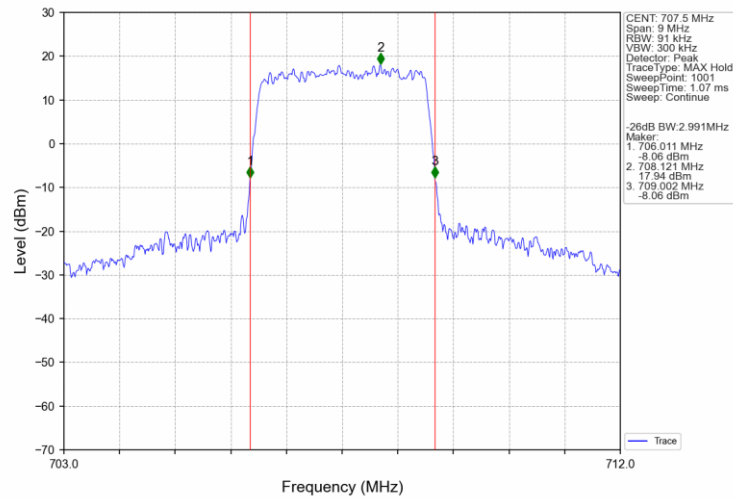
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



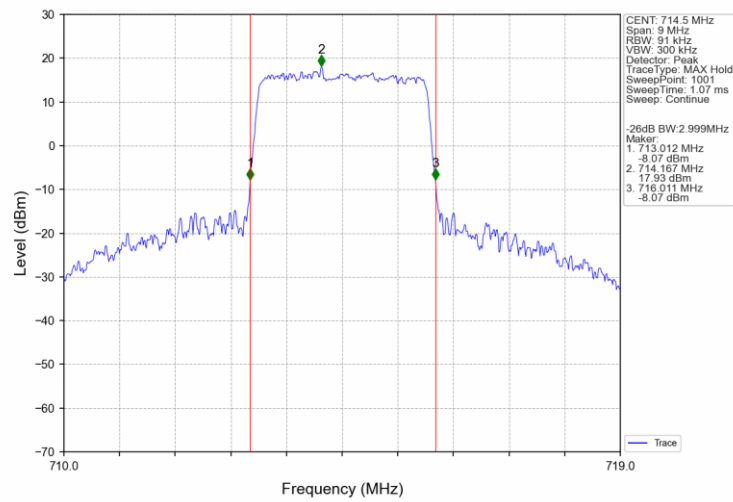
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



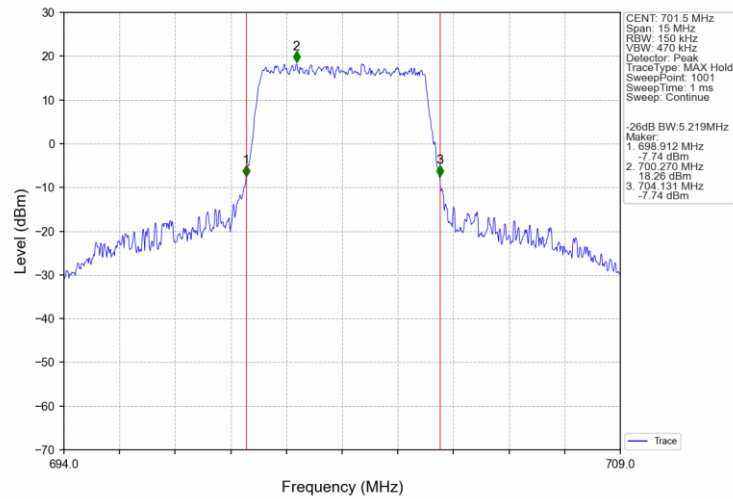
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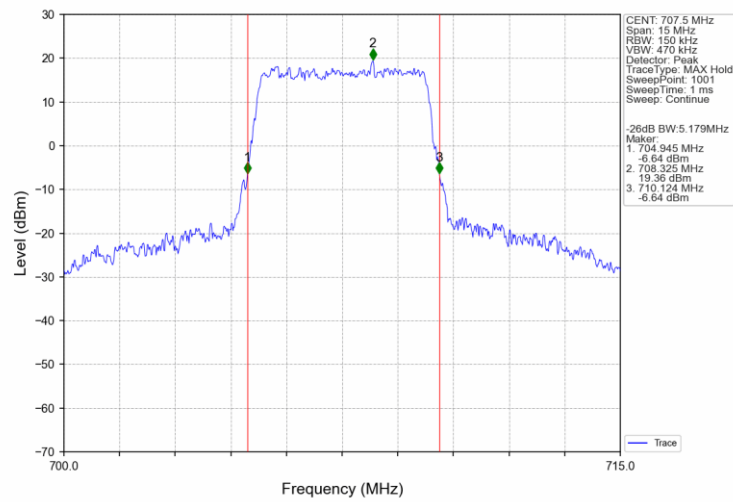
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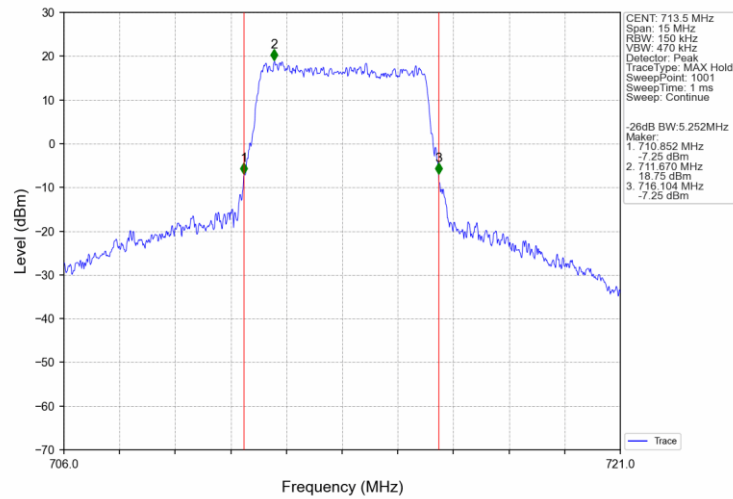
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



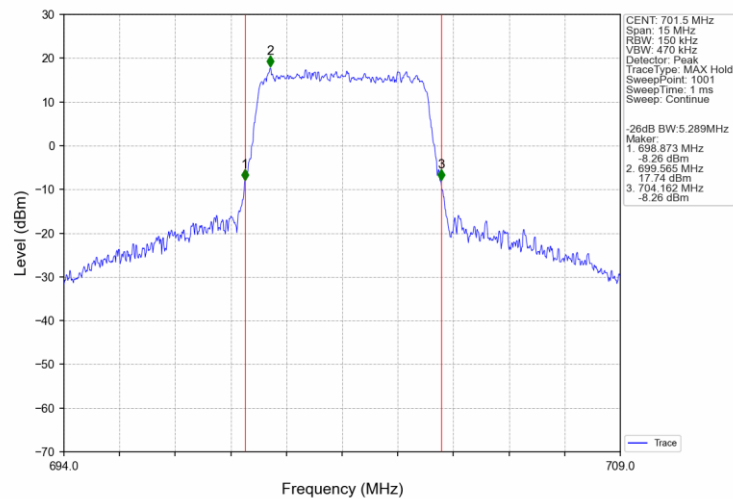
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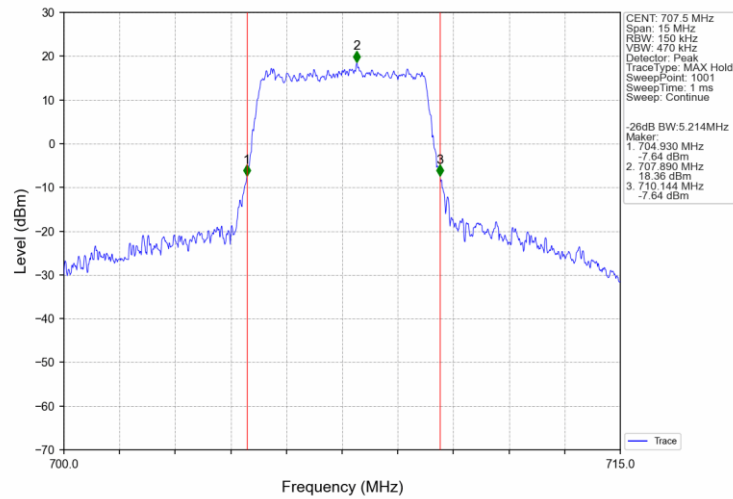
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



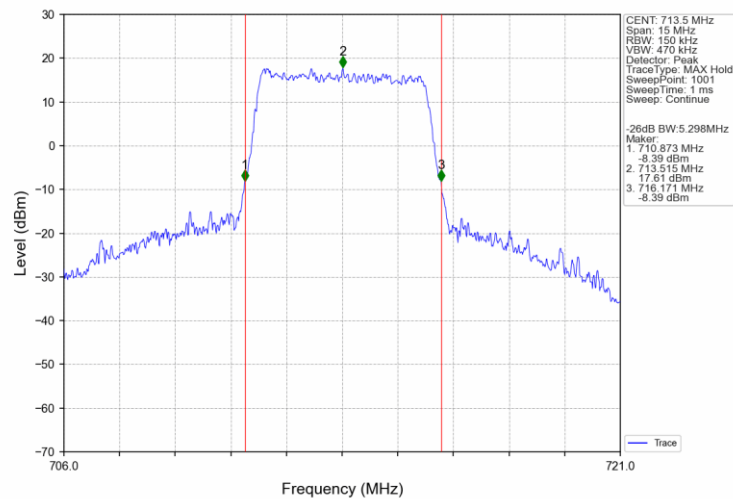
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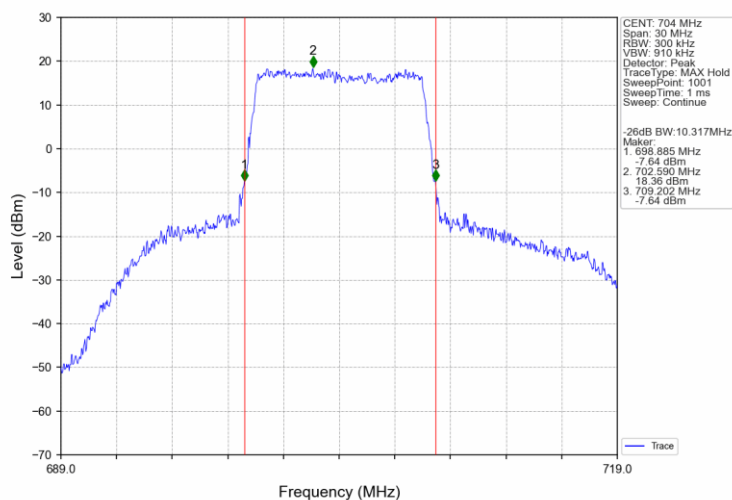
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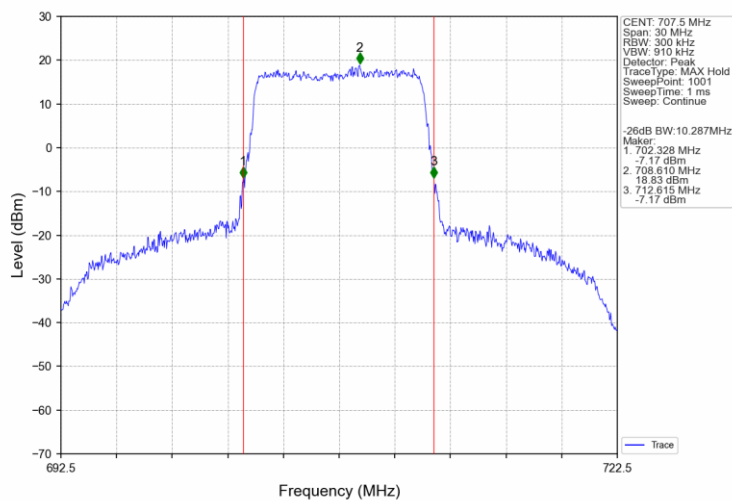
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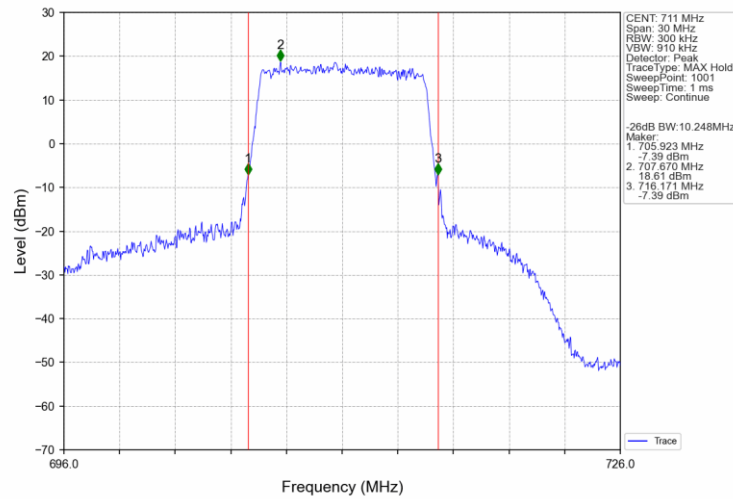
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



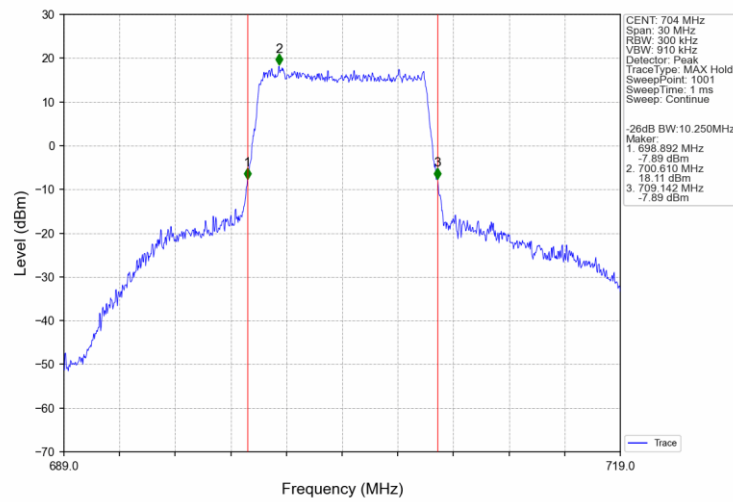
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



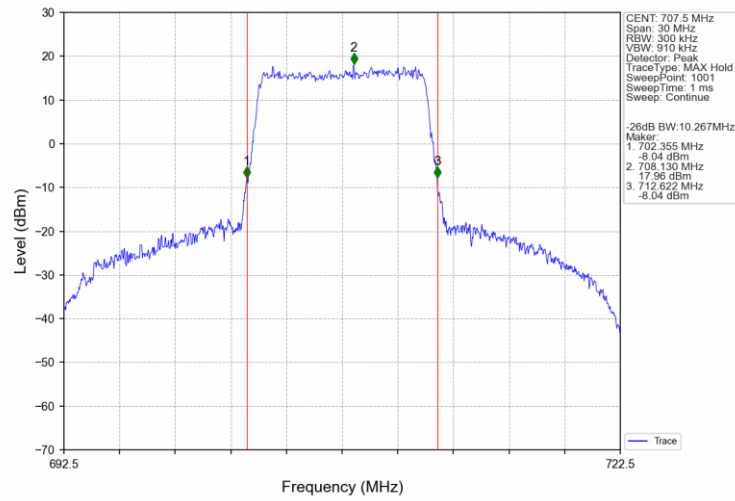
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



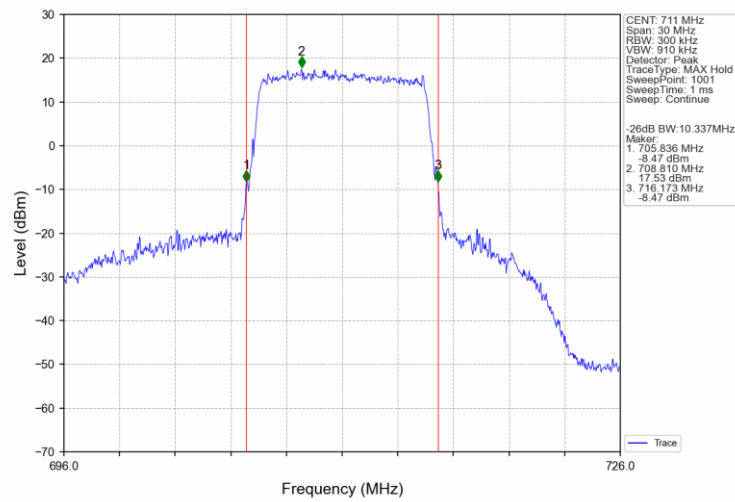
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



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	4.20	<=13	Pass
	707.5	6	0	4.92	<=13	Pass
	715.3	6	0	4.78	<=13	Pass
16QAM	699.7	6	0	5.36	<=13	Pass
	707.5	6	0	5.78	<=13	Pass
	715.3	6	0	5.60	<=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	4.80	<=13	Pass
	707.5	15	0	5.10	<=13	Pass
	714.5	15	0	5.08	<=13	Pass
16QAM	700.5	15	0	5.62	<=13	Pass
	707.5	15	0	5.93	<=13	Pass
	714.5	15	0	5.94	<=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	5.22	<=13	Pass
	707.5	25	0	5.36	<=13	Pass
	713.5	25	0	5.34	<=13	Pass
16QAM	701.5	25	0	5.95	<=13	Pass
	707.5	25	0	6.08	<=13	Pass
	713.5	25	0	6.03	<=13	Pass

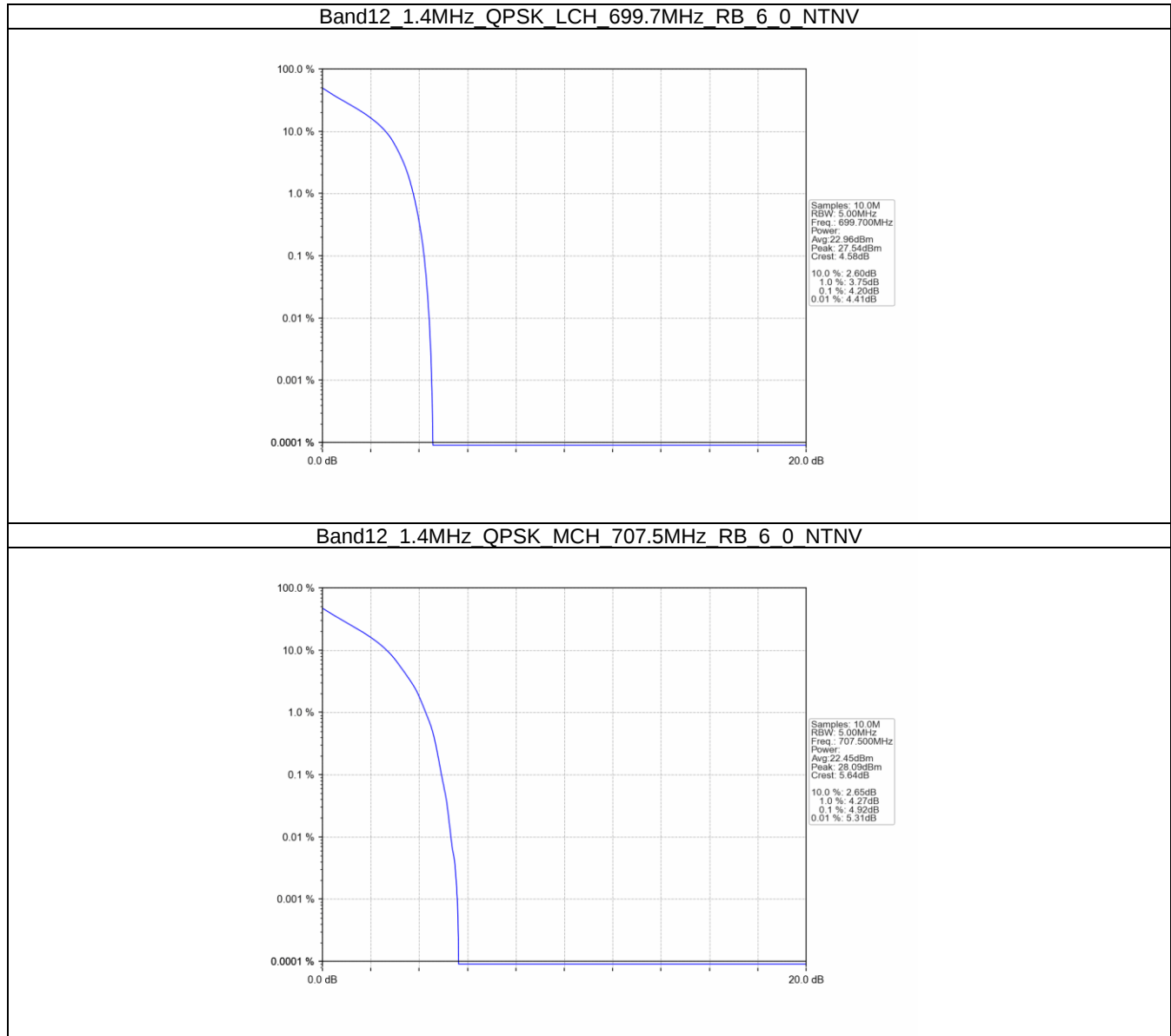
5.1.4 B12_10MHz

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	5.32	<=13	Pass
	707.5	50	0	5.34	<=13	Pass
	711	50	0	5.23	<=13	Pass
16QAM	704	50	0	6.10	<=13	Pass
	707.5	50	0	6.08	<=13	Pass
	711	50	0	6.04	<=13	Pass

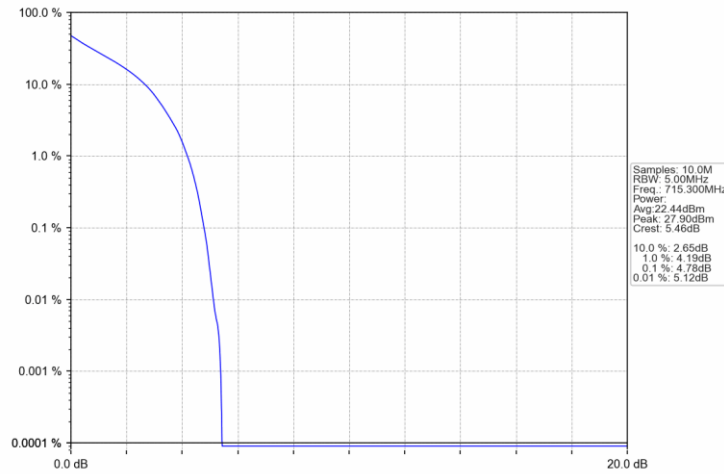


5.2 Test Graph

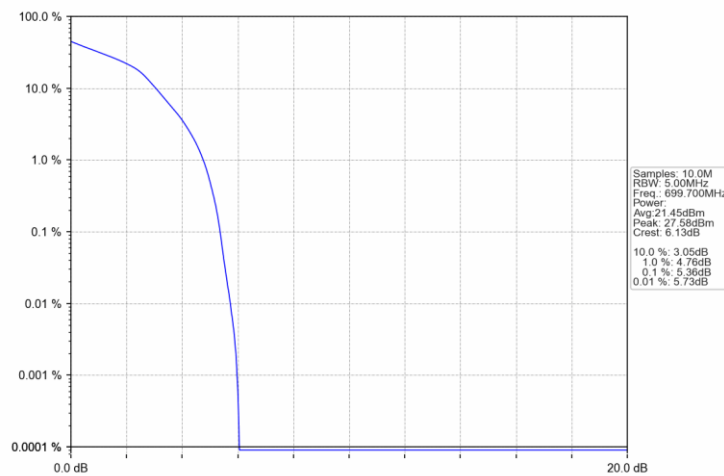
5.2.1 B12_1.4MHz



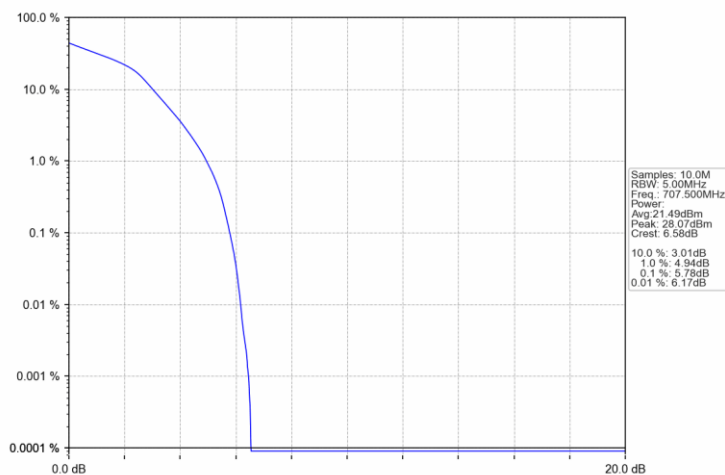
Band12 1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



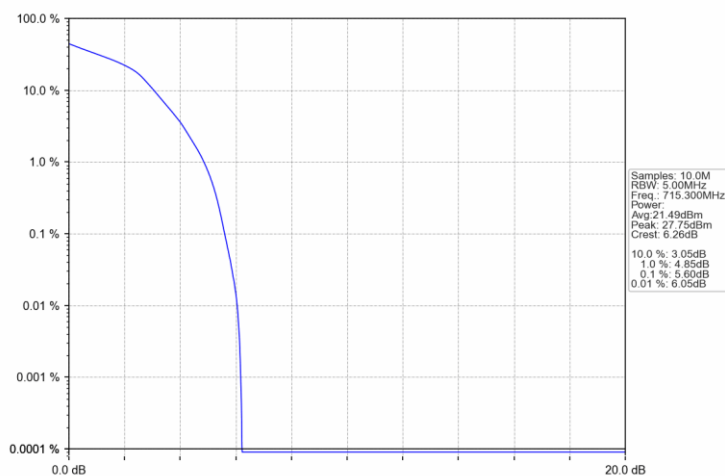
Band12 1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



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

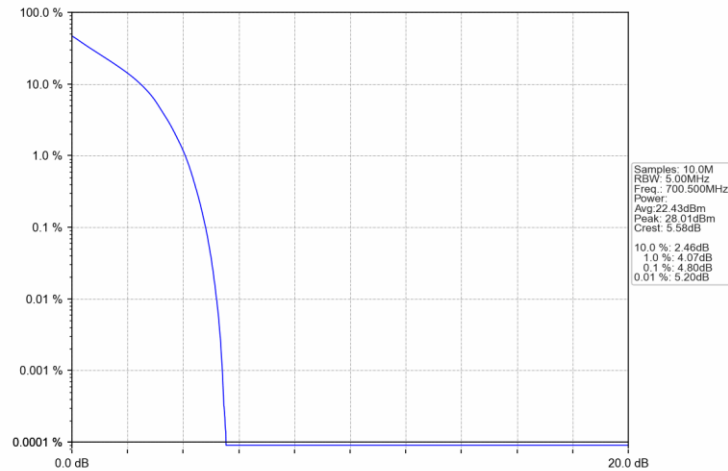


Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV

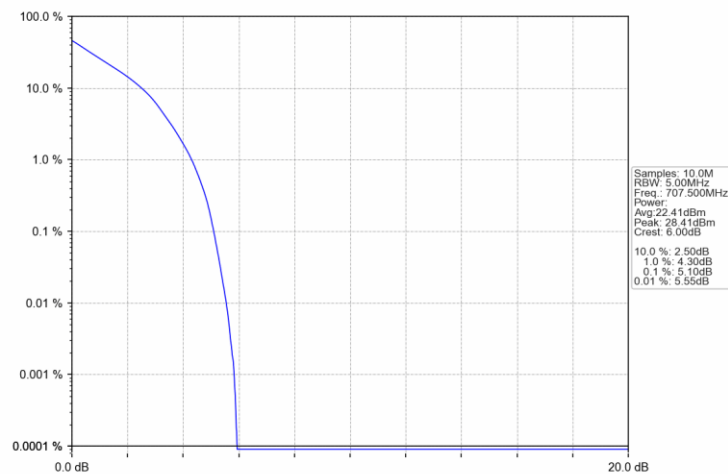


5.2.2 B12_3MHz

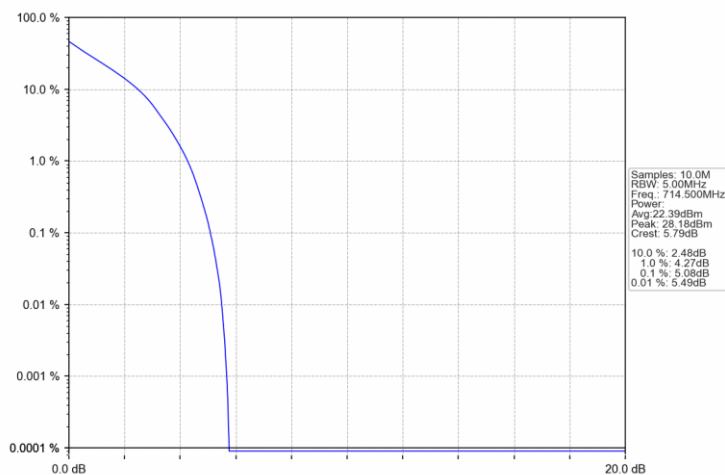
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



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

