

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	22.90	0.33	21.08	<=34.77	Pass
			7	22.97	0.33	21.15	<=34.77	Pass
			14	22.80	0.33	20.98	<=34.77	Pass
		8	0	21.83	0.33	20.01	<=34.77	Pass
			4	21.87	0.33	20.05	<=34.77	Pass
			7	21.84	0.33	20.02	<=34.77	Pass
		15	0	21.83	0.33	20.01	<=34.77	Pass
	707.5	1	0	22.84	0.33	21.02	<=34.77	Pass
			7	22.98	0.33	21.16	<=34.77	Pass
			14	22.75	0.33	20.93	<=34.77	Pass
		8	0	21.82	0.33	20.00	<=34.77	Pass
			4	21.84	0.33	20.02	<=34.77	Pass
			7	21.82	0.33	20.00	<=34.77	Pass
		15	0	21.79	0.33	19.97	<=34.77	Pass
	714.5	1	0	22.74	0.33	20.92	<=34.77	Pass
			7	22.88	0.33	21.06	<=34.77	Pass
			14	22.73	0.33	20.91	<=34.77	Pass
		8	0	21.81	0.33	19.99	<=34.77	Pass
			4	21.84	0.33	20.02	<=34.77	Pass
			7	21.76	0.33	19.94	<=34.77	Pass
		15	0	21.78	0.33	19.96	<=34.77	Pass
16QAM	700.5	1	0	22.40	0.33	20.58	<=34.77	Pass
			7	22.54	0.33	20.72	<=34.77	Pass
			14	22.41	0.33	20.59	<=34.77	Pass
		8	0	21.00	0.33	19.18	<=34.77	Pass
			4	21.06	0.33	19.24	<=34.77	Pass
			7	21.00	0.33	19.18	<=34.77	Pass
		15	0	20.92	0.33	19.10	<=34.77	Pass
	707.5	1	0	21.83	0.33	20.01	<=34.77	Pass
			7	22.00	0.33	20.18	<=34.77	Pass
			14	21.81	0.33	19.99	<=34.77	Pass
		8	0	20.86	0.33	19.04	<=34.77	Pass
			4	20.96	0.33	19.14	<=34.77	Pass
			7	20.90	0.33	19.08	<=34.77	Pass
		15	0	20.88	0.33	19.06	<=34.77	Pass
	714.5	1	0	21.95	0.33	20.13	<=34.77	Pass
			7	22.08	0.33	20.26	<=34.77	Pass
			14	21.89	0.33	20.07	<=34.77	Pass
		8	0	20.82	0.33	19.00	<=34.77	Pass
			4	20.84	0.33	19.02	<=34.77	Pass
			7	20.75	0.33	18.93	<=34.77	Pass
		15	0	20.77	0.33	18.95	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.3 B12_5MHz_ERP

Band: 12 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	701.5	1	0	22.77	0.33	20.95	<=34.77	Pass
			13	22.90	0.33	21.08	<=34.77	Pass
			24	22.80	0.33	20.98	<=34.77	Pass
		12	0	21.87	0.33	20.05	<=34.77	Pass
			6	21.92	0.33	20.10	<=34.77	Pass
			13	21.75	0.33	19.93	<=34.77	Pass
		25	0	21.80	0.33	19.98	<=34.77	Pass

	707.5	1	0	22.75	0.33	20.93	<=34.77	Pass
			13	22.84	0.33	21.02	<=34.77	Pass
			24	22.74	0.33	20.92	<=34.77	Pass
		12	0	21.74	0.33	19.92	<=34.77	Pass
			6	21.87	0.33	20.05	<=34.77	Pass
			13	21.93	0.33	20.11	<=34.77	Pass
		25	0	21.84	0.33	20.02	<=34.77	Pass
	713.5	1	0	22.69	0.33	20.87	<=34.77	Pass
			13	22.81	0.33	20.99	<=34.77	Pass
			24	22.69	0.33	20.87	<=34.77	Pass
		12	0	21.79	0.33	19.97	<=34.77	Pass
			6	21.84	0.33	20.02	<=34.77	Pass
			13	21.69	0.33	19.87	<=34.77	Pass
		25	0	21.69	0.33	19.87	<=34.77	Pass
16QAM	701.5	1	0	21.88	0.33	20.06	<=34.77	Pass
			13	22.02	0.33	20.20	<=34.77	Pass
			24	21.93	0.33	20.11	<=34.77	Pass
		12	0	20.83	0.33	19.01	<=34.77	Pass
			6	20.91	0.33	19.09	<=34.77	Pass
			13	20.76	0.33	18.94	<=34.77	Pass
		25	0	20.86	0.33	19.04	<=34.77	Pass
	707.5	1	0	22.05	0.33	20.23	<=34.77	Pass
			13	22.09	0.33	20.27	<=34.77	Pass
			24	22.07	0.33	20.25	<=34.77	Pass
		12	0	20.83	0.33	19.01	<=34.77	Pass
			6	20.92	0.33	19.10	<=34.77	Pass
			13	20.97	0.33	19.15	<=34.77	Pass
		25	0	20.87	0.33	19.05	<=34.77	Pass
	713.5	1	0	21.55	0.33	19.73	<=34.77	Pass
			13	21.69	0.33	19.87	<=34.77	Pass
			24	21.55	0.33	19.73	<=34.77	Pass
		12	0	20.85	0.33	19.03	<=34.77	Pass
			6	20.83	0.33	19.01	<=34.77	Pass
			13	20.67	0.33	18.85	<=34.77	Pass
		25	0	20.79	0.33	18.97	<=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	22.83	0.33	21.01	<=34.77	Pass
			25	22.93	0.33	21.11	<=34.77	Pass
			49	22.79	0.33	20.97	<=34.77	Pass
		25	0	22.05	0.33	20.23	<=34.77	Pass
			13	21.91	0.33	20.09	<=34.77	Pass
			25	22.04	0.33	20.22	<=34.77	Pass
	707.5	50	0	22.05	0.33	20.23	<=34.77	Pass
		1	0	22.79	0.33	20.97	<=34.77	Pass
			25	22.92	0.33	21.10	<=34.77	Pass
			49	22.75	0.33	20.93	<=34.77	Pass
		25	0	21.83	0.33	20.01	<=34.77	Pass
			13	21.87	0.33	20.05	<=34.77	Pass
			25	21.99	0.33	20.17	<=34.77	Pass
		50	0	21.95	0.33	20.13	<=34.77	Pass
	711	1	0	22.79	0.33	20.97	<=34.77	Pass
			25	22.96	0.33	21.14	<=34.77	Pass

16QAM	704	25	49	22.83	0.33	21.01	<=34.77	Pass
			0	21.66	0.33	19.84	<=34.77	Pass
			13	21.79	0.33	19.97	<=34.77	Pass
			25	21.61	0.33	19.79	<=34.77	Pass
		50	0	21.58	0.33	19.76	<=34.77	Pass
	707.5	1	0	22.02	0.33	20.20	<=34.77	Pass
			25	22.07	0.33	20.25	<=34.77	Pass
			49	22.06	0.33	20.24	<=34.77	Pass
		25	0	21.12	0.33	19.30	<=34.77	Pass
			13	20.94	0.33	19.12	<=34.77	Pass
			25	21.08	0.33	19.26	<=34.77	Pass
		50	0	21.10	0.33	19.28	<=34.77	Pass
	711	1	0	22.38	0.33	20.56	<=34.77	Pass
			25	22.53	0.33	20.71	<=34.77	Pass
			49	22.38	0.33	20.56	<=34.77	Pass
		25	0	20.94	0.33	19.12	<=34.77	Pass
			13	20.95	0.33	19.13	<=34.77	Pass
			25	21.08	0.33	19.26	<=34.77	Pass
		50	0	21.00	0.33	19.18	<=34.77	Pass
	711	1	0	21.85	0.33	20.03	<=34.77	Pass
			25	21.96	0.33	20.14	<=34.77	Pass
			49	21.82	0.33	20.00	<=34.77	Pass
		25	0	20.78	0.33	18.96	<=34.77	Pass
			13	20.89	0.33	19.07	<=34.77	Pass
			25	20.74	0.33	18.92	<=34.77	Pass
		50	0	20.65	0.33	18.83	<=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	-5.493	-0.0079	-2.5 to 2.5	Pass
					3.85	-8.297	-0.0119	-2.5 to 2.5	Pass
					4.43	-6.394	-0.0091	-2.5 to 2.5	Pass
				-30	3.85	-9.370	-0.0134	-2.5 to 2.5	Pass
				-20	3.85	-9.584	-0.0137	-2.5 to 2.5	Pass
				-10	3.85	-7.854	-0.0112	-2.5 to 2.5	Pass
				0	3.85	-8.669	-0.0124	-2.5 to 2.5	Pass
				10	3.85	-10.958	-0.0157	-2.5 to 2.5	Pass
				30	3.85	-8.640	-0.0123	-2.5 to 2.5	Pass
				40	3.85	-8.612	-0.0123	-2.5 to 2.5	Pass
				50	3.85	-6.495	-0.0093	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	-8.039	-0.0114	-2.5 to 2.5	Pass
					3.85	-7.367	-0.0104	-2.5 to 2.5	Pass
					4.43	-3.691	-0.0052	-2.5 to 2.5	Pass
				-30	3.85	-9.141	-0.0129	-2.5 to 2.5	Pass
				-20	3.85	-11.301	-0.0160	-2.5 to 2.5	Pass
				-10	3.85	-7.052	-0.0100	-2.5 to 2.5	Pass
				0	3.85	-8.082	-0.0114	-2.5 to 2.5	Pass
				10	3.85	-6.309	-0.0089	-2.5 to 2.5	Pass

	715.3	6	0	30	3.85	-8.039	-0.0114	-2.5 to 2.5	Pass
				40	3.85	-6.666	-0.0094	-2.5 to 2.5	Pass
				50	3.85	-6.580	-0.0093	-2.5 to 2.5	Pass
				20	3.27	-3.433	-0.0048	-2.5 to 2.5	Pass
					3.85	-6.466	-0.0090	-2.5 to 2.5	Pass
					4.43	-3.519	-0.0049	-2.5 to 2.5	Pass
				-30	3.85	-2.975	-0.0042	-2.5 to 2.5	Pass
				-20	3.85	-5.808	-0.0081	-2.5 to 2.5	Pass
				-10	3.85	-6.495	-0.0091	-2.5 to 2.5	Pass
				0	3.85	-6.580	-0.0092	-2.5 to 2.5	Pass
				10	3.85	-6.409	-0.0090	-2.5 to 2.5	Pass
				30	3.85	-5.751	-0.0080	-2.5 to 2.5	Pass
				40	3.85	-4.506	-0.0063	-2.5 to 2.5	Pass
				50	3.85	-8.254	-0.0115	-2.5 to 2.5	Pass
16QAM	699.7	6	0	20	3.27	-8.197	-0.0117	-2.5 to 2.5	Pass
					3.85	-8.297	-0.0119	-2.5 to 2.5	Pass
					4.43	-7.439	-0.0106	-2.5 to 2.5	Pass
				-30	3.85	-5.994	-0.0086	-2.5 to 2.5	Pass
				-20	3.85	-8.712	-0.0125	-2.5 to 2.5	Pass
				-10	3.85	-7.253	-0.0104	-2.5 to 2.5	Pass
				0	3.85	-8.054	-0.0115	-2.5 to 2.5	Pass
				10	3.85	-8.926	-0.0128	-2.5 to 2.5	Pass
				30	3.85	-5.050	-0.0072	-2.5 to 2.5	Pass
				40	3.85	-9.170	-0.0131	-2.5 to 2.5	Pass
				50	3.85	-9.971	-0.0143	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	-5.193	-0.0073	-2.5 to 2.5	Pass
					3.85	-5.636	-0.0080	-2.5 to 2.5	Pass
					4.43	-10.014	-0.0142	-2.5 to 2.5	Pass
				-30	3.85	-6.809	-0.0096	-2.5 to 2.5	Pass
				-20	3.85	-6.609	-0.0093	-2.5 to 2.5	Pass
				-10	3.85	-3.963	-0.0056	-2.5 to 2.5	Pass
				0	3.85	-7.010	-0.0099	-2.5 to 2.5	Pass
				10	3.85	-7.067	-0.0100	-2.5 to 2.5	Pass
				30	3.85	-8.354	-0.0118	-2.5 to 2.5	Pass
				40	3.85	-6.509	-0.0092	-2.5 to 2.5	Pass
				50	3.85	-7.854	-0.0111	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	-7.668	-0.0107	-2.5 to 2.5	Pass
					3.85	-3.548	-0.0050	-2.5 to 2.5	Pass
					4.43	-7.324	-0.0102	-2.5 to 2.5	Pass
				-30	3.85	-8.011	-0.0112	-2.5 to 2.5	Pass
				-20	3.85	-7.839	-0.0110	-2.5 to 2.5	Pass
				-10	3.85	-5.393	-0.0075	-2.5 to 2.5	Pass
				0	3.85	-10.185	-0.0142	-2.5 to 2.5	Pass
				10	3.85	-5.622	-0.0079	-2.5 to 2.5	Pass
				30	3.85	-4.721	-0.0066	-2.5 to 2.5	Pass
				40	3.85	-4.978	-0.0070	-2.5 to 2.5	Pass
				50	3.85	-5.851	-0.0082	-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	-4.921	-0.0070	-2.5 to 2.5	Pass
					3.85	-6.537	-0.0093	-2.5 to 2.5	Pass
					4.43	-6.738	-0.0096	-2.5 to 2.5	Pass
				-30	3.85	-7.524	-0.0107	-2.5 to 2.5	Pass
				-20	3.85	-8.726	-0.0125	-2.5 to 2.5	Pass

				-10	3.85	-7.682	-0.0110	-2.5 to 2.5	Pass
				0	3.85	-6.723	-0.0096	-2.5 to 2.5	Pass
				10	3.85	-12.145	-0.0173	-2.5 to 2.5	Pass
				30	3.85	-8.826	-0.0126	-2.5 to 2.5	Pass
				40	3.85	-9.184	-0.0131	-2.5 to 2.5	Pass
	707.5	15	0	50	3.85	-7.782	-0.0111	-2.5 to 2.5	Pass
				20	3.27	-4.435	-0.0063	-2.5 to 2.5	Pass
					3.85	-5.093	-0.0072	-2.5 to 2.5	Pass
					4.43	-10.271	-0.0145	-2.5 to 2.5	Pass
				-30	3.85	-6.323	-0.0089	-2.5 to 2.5	Pass
				-20	3.85	-7.195	-0.0102	-2.5 to 2.5	Pass
				-10	3.85	-6.437	-0.0091	-2.5 to 2.5	Pass
				0	3.85	-11.101	-0.0157	-2.5 to 2.5	Pass
				10	3.85	-5.336	-0.0075	-2.5 to 2.5	Pass
				30	3.85	-7.710	-0.0109	-2.5 to 2.5	Pass
				40	3.85	-8.025	-0.0113	-2.5 to 2.5	Pass
				50	3.85	-9.098	-0.0129	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-9.685	-0.0136	-2.5 to 2.5	Pass
					3.85	-8.368	-0.0117	-2.5 to 2.5	Pass
					4.43	-5.150	-0.0072	-2.5 to 2.5	Pass
				-30	3.85	-4.635	-0.0065	-2.5 to 2.5	Pass
				-20	3.85	-7.539	-0.0106	-2.5 to 2.5	Pass
				-10	3.85	-8.011	-0.0112	-2.5 to 2.5	Pass
				0	3.85	-7.296	-0.0102	-2.5 to 2.5	Pass
				10	3.85	-9.742	-0.0136	-2.5 to 2.5	Pass
				30	3.85	-9.112	-0.0128	-2.5 to 2.5	Pass
				40	3.85	-3.762	-0.0053	-2.5 to 2.5	Pass
				50	3.85	-6.351	-0.0089	-2.5 to 2.5	Pass
16QAM	700.5	15	0	20	3.27	-7.482	-0.0107	-2.5 to 2.5	Pass
					3.85	-7.553	-0.0108	-2.5 to 2.5	Pass
					4.43	-7.539	-0.0108	-2.5 to 2.5	Pass
				-30	3.85	-8.211	-0.0117	-2.5 to 2.5	Pass
				-20	3.85	-6.523	-0.0093	-2.5 to 2.5	Pass
				-10	3.85	-6.952	-0.0099	-2.5 to 2.5	Pass
				0	3.85	-8.712	-0.0124	-2.5 to 2.5	Pass
				10	3.85	-8.755	-0.0125	-2.5 to 2.5	Pass
				30	3.85	-8.626	-0.0123	-2.5 to 2.5	Pass
				40	3.85	-8.540	-0.0122	-2.5 to 2.5	Pass
				50	3.85	-8.039	-0.0115	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	-10.228	-0.0145	-2.5 to 2.5	Pass
					3.85	-8.883	-0.0126	-2.5 to 2.5	Pass
					4.43	-6.008	-0.0085	-2.5 to 2.5	Pass
				-30	3.85	-6.151	-0.0087	-2.5 to 2.5	Pass
				-20	3.85	-9.756	-0.0138	-2.5 to 2.5	Pass
				-10	3.85	-8.183	-0.0116	-2.5 to 2.5	Pass
				0	3.85	-7.653	-0.0108	-2.5 to 2.5	Pass
				10	3.85	-6.781	-0.0096	-2.5 to 2.5	Pass
				30	3.85	-8.740	-0.0124	-2.5 to 2.5	Pass
				40	3.85	-7.467	-0.0106	-2.5 to 2.5	Pass
				50	3.85	-6.309	-0.0089	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-8.039	-0.0113	-2.5 to 2.5	Pass
					3.85	-7.839	-0.0110	-2.5 to 2.5	Pass
					4.43	-5.965	-0.0083	-2.5 to 2.5	Pass
				-30	3.85	-5.636	-0.0079	-2.5 to 2.5	Pass
				-20	3.85	-7.167	-0.0100	-2.5 to 2.5	Pass
				-10	3.85	-6.294	-0.0088	-2.5 to 2.5	Pass
				0	3.85	-8.197	-0.0115	-2.5 to 2.5	Pass
				10	3.85	-9.227	-0.0129	-2.5 to 2.5	Pass
				30	3.85	-8.140	-0.0114	-2.5 to 2.5	Pass

				40	3.85	-9.141	-0.0128	-2.5 to 2.5	Pass
				50	3.85	-8.712	-0.0122	-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	-3.405	-0.0049	-2.5 to 2.5	Pass
					3.85	-2.761	-0.0039	-2.5 to 2.5	Pass
					4.43	-6.680	-0.0095	-2.5 to 2.5	Pass
				-30	3.85	-8.240	-0.0117	-2.5 to 2.5	Pass
				-20	3.85	-10.257	-0.0146	-2.5 to 2.5	Pass
				-10	3.85	-5.751	-0.0082	-2.5 to 2.5	Pass
				0	3.85	-9.227	-0.0132	-2.5 to 2.5	Pass
				10	3.85	-6.809	-0.0097	-2.5 to 2.5	Pass
				30	3.85	-8.497	-0.0121	-2.5 to 2.5	Pass
				40	3.85	-6.208	-0.0088	-2.5 to 2.5	Pass
				50	3.85	-4.406	-0.0063	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-9.098	-0.0129	-2.5 to 2.5	Pass
					3.85	-7.153	-0.0101	-2.5 to 2.5	Pass
					4.43	-3.362	-0.0048	-2.5 to 2.5	Pass
				-30	3.85	-3.905	-0.0055	-2.5 to 2.5	Pass
				-20	3.85	-3.390	-0.0048	-2.5 to 2.5	Pass
				-10	3.85	-7.467	-0.0106	-2.5 to 2.5	Pass
				0	3.85	-6.509	-0.0092	-2.5 to 2.5	Pass
				10	3.85	-7.296	-0.0103	-2.5 to 2.5	Pass
				30	3.85	-3.533	-0.0050	-2.5 to 2.5	Pass
				40	3.85	-5.178	-0.0073	-2.5 to 2.5	Pass
				50	3.85	-6.638	-0.0094	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-6.137	-0.0086	-2.5 to 2.5	Pass
					3.85	-5.493	-0.0077	-2.5 to 2.5	Pass
					4.43	-5.336	-0.0075	-2.5 to 2.5	Pass
				-30	3.85	-8.540	-0.0120	-2.5 to 2.5	Pass
				-20	3.85	-5.322	-0.0075	-2.5 to 2.5	Pass
				-10	3.85	-4.091	-0.0057	-2.5 to 2.5	Pass
				0	3.85	-4.363	-0.0061	-2.5 to 2.5	Pass
				10	3.85	-4.964	-0.0070	-2.5 to 2.5	Pass
				30	3.85	-6.294	-0.0088	-2.5 to 2.5	Pass
				40	3.85	-6.094	-0.0085	-2.5 to 2.5	Pass
				50	3.85	-7.038	-0.0099	-2.5 to 2.5	Pass
16QAM	701.5	25	0	20	3.27	-7.839	-0.0112	-2.5 to 2.5	Pass
					3.85	-4.077	-0.0058	-2.5 to 2.5	Pass
					4.43	-4.363	-0.0062	-2.5 to 2.5	Pass
				-30	3.85	-5.007	-0.0071	-2.5 to 2.5	Pass
				-20	3.85	-8.025	-0.0114	-2.5 to 2.5	Pass
				-10	3.85	-8.125	-0.0116	-2.5 to 2.5	Pass
				0	3.85	-8.755	-0.0125	-2.5 to 2.5	Pass
				10	3.85	-7.339	-0.0105	-2.5 to 2.5	Pass
				30	3.85	-10.743	-0.0153	-2.5 to 2.5	Pass
				40	3.85	-4.377	-0.0062	-2.5 to 2.5	Pass
				50	3.85	-5.064	-0.0072	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-8.912	-0.0126	-2.5 to 2.5	Pass
					3.85	-7.453	-0.0105	-2.5 to 2.5	Pass
					4.43	-7.639	-0.0108	-2.5 to 2.5	Pass
				-30	3.85	-9.413	-0.0133	-2.5 to 2.5	Pass
				-20	3.85	-5.879	-0.0083	-2.5 to 2.5	Pass
				-10	3.85	-7.610	-0.0108	-2.5 to 2.5	Pass

				0	3.85	-8.540	-0.0121	-2.5 to 2.5	Pass
				10	3.85	-6.738	-0.0095	-2.5 to 2.5	Pass
				30	3.85	-3.090	-0.0044	-2.5 to 2.5	Pass
				40	3.85	-6.537	-0.0092	-2.5 to 2.5	Pass
				50	3.85	-5.422	-0.0077	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-8.554	-0.0120	-2.5 to 2.5	Pass
					3.85	-7.954	-0.0111	-2.5 to 2.5	Pass
					4.43	-5.965	-0.0084	-2.5 to 2.5	Pass
				-30	3.85	-5.579	-0.0078	-2.5 to 2.5	Pass
				-20	3.85	-4.206	-0.0059	-2.5 to 2.5	Pass
				-10	3.85	-4.678	-0.0066	-2.5 to 2.5	Pass
				0	3.85	-5.422	-0.0076	-2.5 to 2.5	Pass
				10	3.85	-7.510	-0.0105	-2.5 to 2.5	Pass
				30	3.85	-7.467	-0.0105	-2.5 to 2.5	Pass
				40	3.85	-8.225	-0.0115	-2.5 to 2.5	Pass
				50	3.85	-5.794	-0.0081	-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	-4.292	-0.0061	-2.5 to 2.5	Pass
					3.85	-5.951	-0.0085	-2.5 to 2.5	Pass
					4.43	-10.128	-0.0144	-2.5 to 2.5	Pass
				-30	3.85	-4.907	-0.0070	-2.5 to 2.5	Pass
				-20	3.85	-8.726	-0.0124	-2.5 to 2.5	Pass
				-10	3.85	-7.124	-0.0101	-2.5 to 2.5	Pass
				0	3.85	-4.549	-0.0065	-2.5 to 2.5	Pass
				10	3.85	-7.925	-0.0113	-2.5 to 2.5	Pass
				30	3.85	-4.678	-0.0066	-2.5 to 2.5	Pass
				40	3.85	-8.554	-0.0122	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-5.765	-0.0081	-2.5 to 2.5	Pass
					3.85	-4.363	-0.0062	-2.5 to 2.5	Pass
					4.43	-3.304	-0.0047	-2.5 to 2.5	Pass
				-30	3.85	-4.220	-0.0060	-2.5 to 2.5	Pass
				-20	3.85	-5.836	-0.0082	-2.5 to 2.5	Pass
				-10	3.85	-6.752	-0.0095	-2.5 to 2.5	Pass
				0	3.85	-5.937	-0.0084	-2.5 to 2.5	Pass
				10	3.85	-5.636	-0.0080	-2.5 to 2.5	Pass
				30	3.85	-5.107	-0.0072	-2.5 to 2.5	Pass
				40	3.85	-8.054	-0.0114	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-6.366	-0.0090	-2.5 to 2.5	Pass
					3.85	-6.609	-0.0093	-2.5 to 2.5	Pass
					4.43	-5.808	-0.0082	-2.5 to 2.5	Pass
				-30	3.85	-4.048	-0.0057	-2.5 to 2.5	Pass
				-20	3.85	-1.087	-0.0015	-2.5 to 2.5	Pass
				-10	3.85	-7.267	-0.0102	-2.5 to 2.5	Pass
				0	3.85	-7.410	-0.0104	-2.5 to 2.5	Pass
				10	3.85	-7.281	-0.0102	-2.5 to 2.5	Pass
				30	3.85	-7.982	-0.0112	-2.5 to 2.5	Pass
				40	3.85	-7.439	-0.0105	-2.5 to 2.5	Pass
16QAM	704	50	0	20	3.27	-5.822	-0.0083	-2.5 to 2.5	Pass
					3.85	-9.627	-0.0137	-2.5 to 2.5	Pass
					4.43	-4.063	-0.0058	-2.5 to 2.5	Pass

				-30	3.85	-5.765	-0.0082	-2.5 to 2.5	Pass
				-20	3.85	-6.509	-0.0092	-2.5 to 2.5	Pass
				-10	3.85	-8.397	-0.0119	-2.5 to 2.5	Pass
				0	3.85	-8.655	-0.0123	-2.5 to 2.5	Pass
				10	3.85	-7.911	-0.0112	-2.5 to 2.5	Pass
				30	3.85	-8.512	-0.0121	-2.5 to 2.5	Pass
				40	3.85	-3.676	-0.0052	-2.5 to 2.5	Pass
				50	3.85	-4.349	-0.0062	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-10.400	-0.0147	-2.5 to 2.5	Pass
					3.85	-9.212	-0.0130	-2.5 to 2.5	Pass
					4.43	-7.510	-0.0106	-2.5 to 2.5	Pass
				-30	3.85	-8.240	-0.0116	-2.5 to 2.5	Pass
				-20	3.85	-5.751	-0.0081	-2.5 to 2.5	Pass
				-10	3.85	-5.894	-0.0083	-2.5 to 2.5	Pass
				0	3.85	-4.807	-0.0068	-2.5 to 2.5	Pass
				10	3.85	-3.676	-0.0052	-2.5 to 2.5	Pass
				30	3.85	-4.621	-0.0065	-2.5 to 2.5	Pass
				40	3.85	-10.428	-0.0147	-2.5 to 2.5	Pass
				50	3.85	-7.682	-0.0109	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-7.954	-0.0112	-2.5 to 2.5	Pass
					3.85	-6.766	-0.0095	-2.5 to 2.5	Pass
					4.43	-3.576	-0.0050	-2.5 to 2.5	Pass
				-30	3.85	-3.419	-0.0048	-2.5 to 2.5	Pass
				-20	3.85	-7.882	-0.0111	-2.5 to 2.5	Pass
				-10	3.85	-6.337	-0.0089	-2.5 to 2.5	Pass
				0	3.85	-5.393	-0.0076	-2.5 to 2.5	Pass
				10	3.85	-3.848	-0.0054	-2.5 to 2.5	Pass
				30	3.85	-5.207	-0.0073	-2.5 to 2.5	Pass
				40	3.85	-8.855	-0.0125	-2.5 to 2.5	Pass
				50	3.85	-7.253	-0.0102	-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 / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	15	0	Refer To Test Graph		Pass
16QAM	707.5	15	0	Refer To Test Graph		Pass

3.1.3 B12_5MHz

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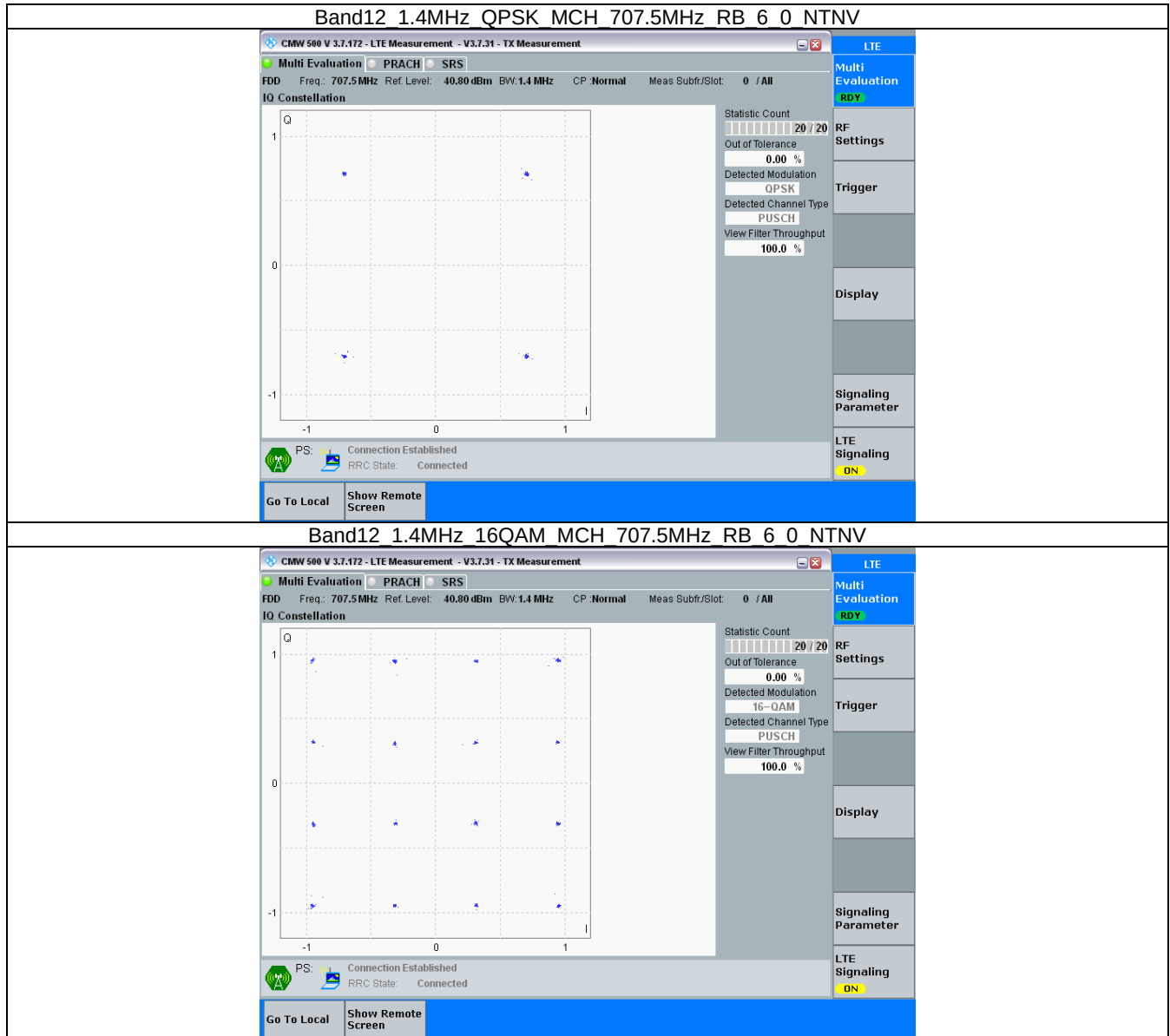
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	25	0	Refer To Test Graph		Pass
16QAM	707.5	25	0	Refer To Test Graph		Pass

3.1.4 B12_10MHz

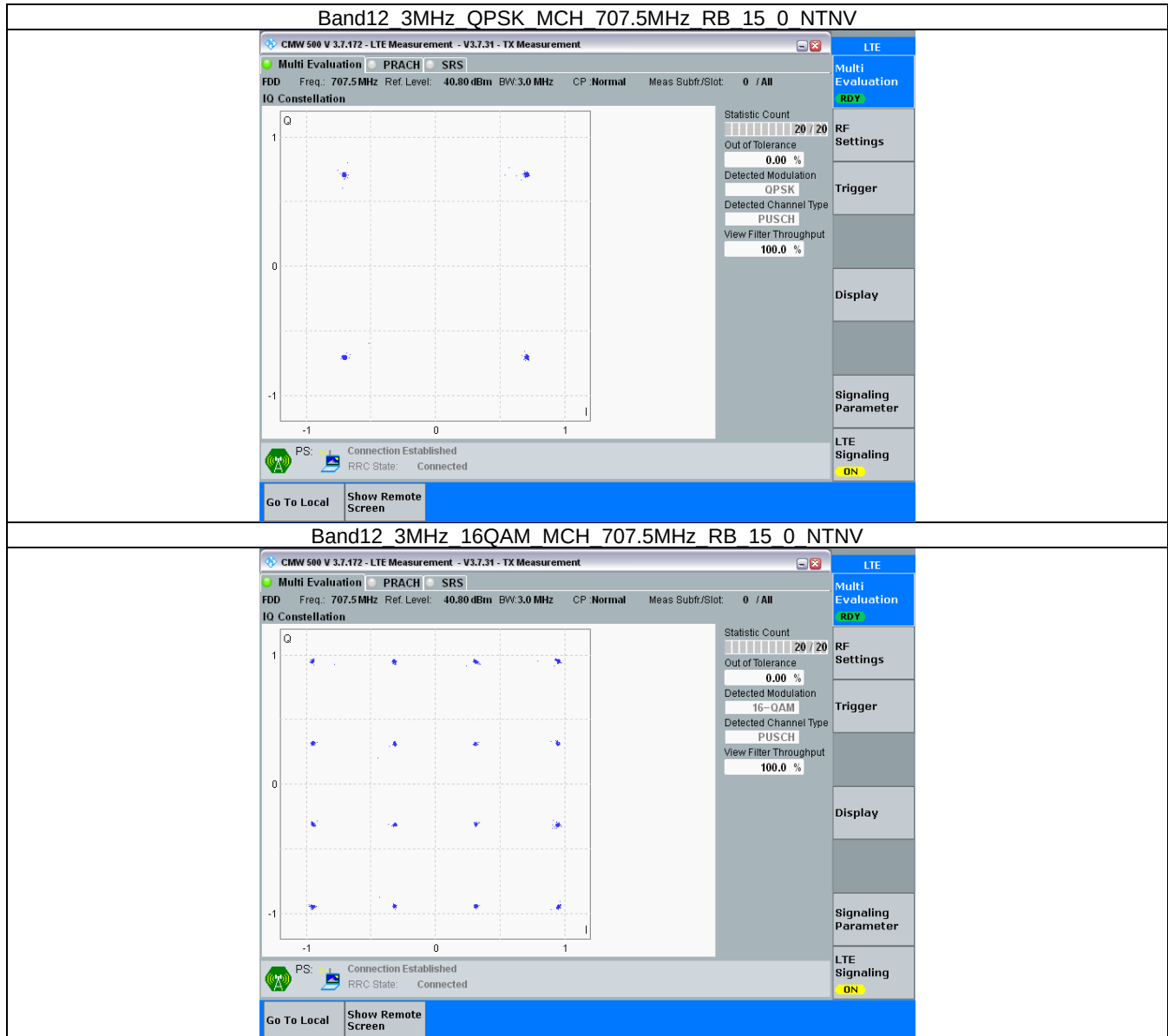
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	Refer To Test Graph		Pass
16QAM	707.5	50	0	Refer To Test Graph		Pass

3.2 Test Graph

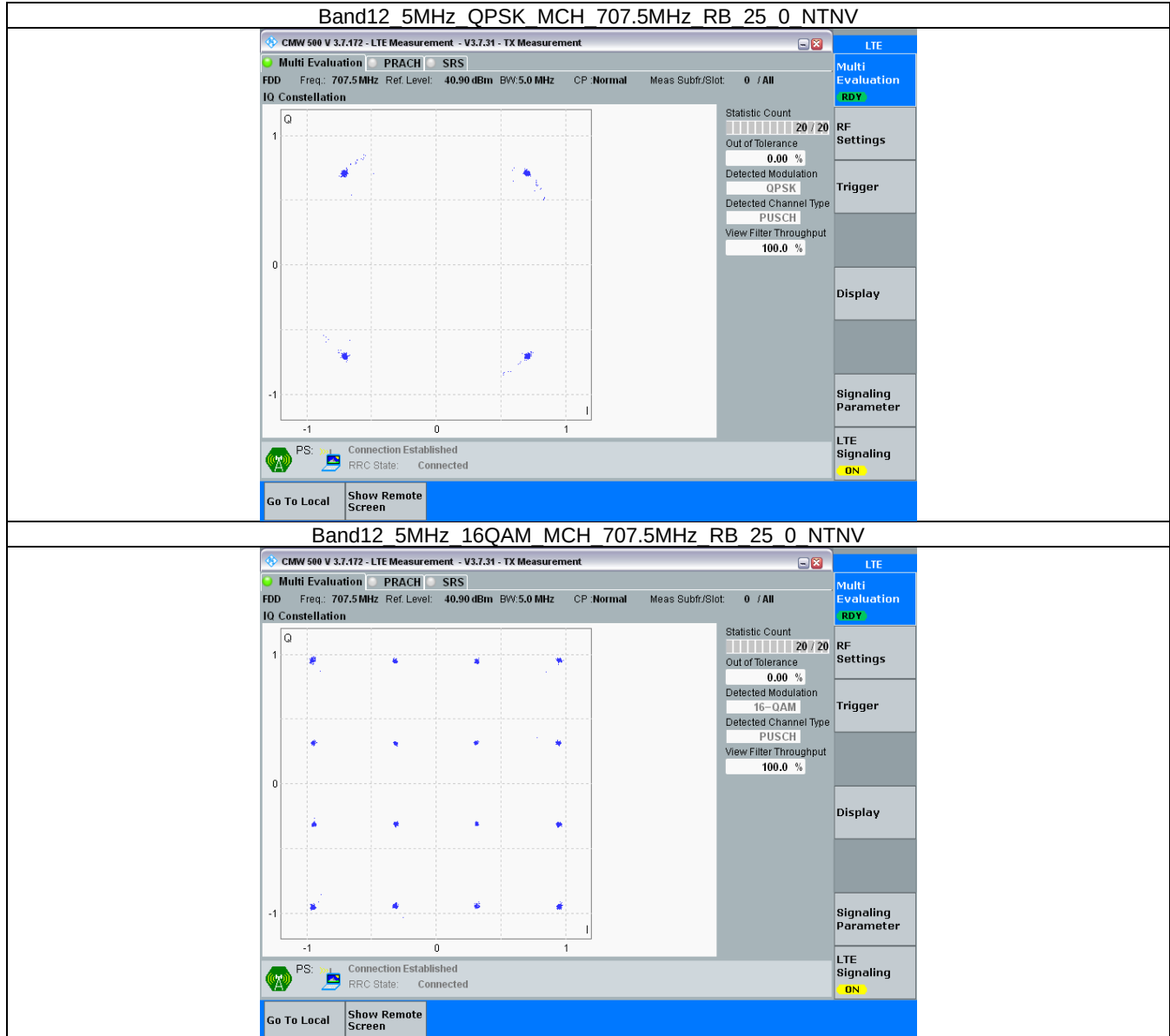
3.2.1 B12_1.4MHz



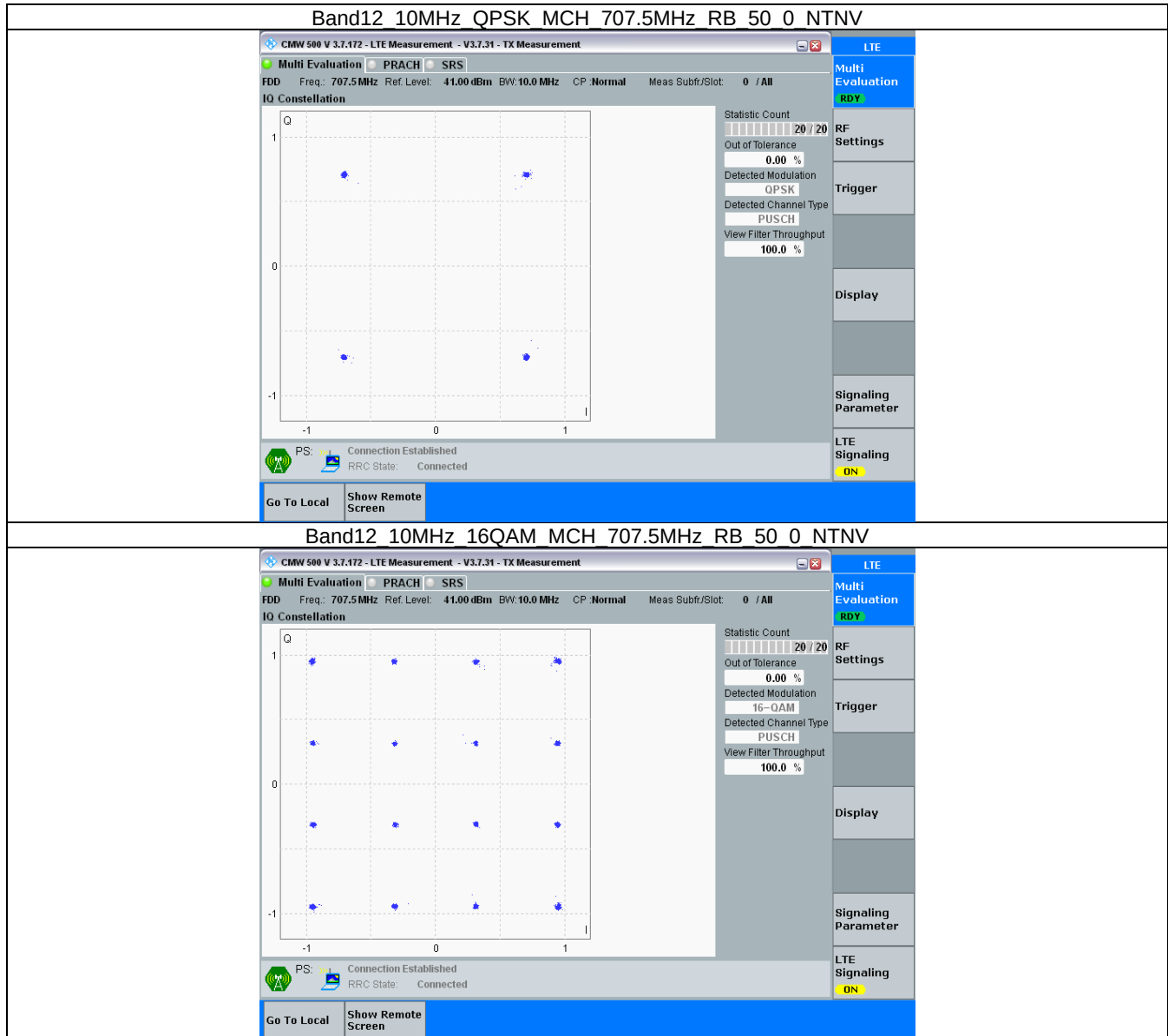
3.2.2 B12_3MHz



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	1.110	/	Pass
		715.3	6	0	1.129	/	Pass
	16QAM	699.7	6	0	1.112	/	Pass
		707.5	6	0	1.114	/	Pass
		715.3	6	0	1.119	/	Pass
3	QPSK	700.5	15	0	2.724	/	Pass
		707.5	15	0	2.728	/	Pass
		714.5	15	0	2.732	/	Pass
	16QAM	700.5	15	0	2.712	/	Pass
		707.5	15	0	2.710	/	Pass
		714.5	15	0	2.722	/	Pass
5	QPSK	701.5	25	0	4.541	/	Pass
		707.5	25	0	4.581	/	Pass
		713.5	25	0	4.556	/	Pass
	16QAM	701.5	25	0	4.592	/	Pass
		707.5	25	0	4.570	/	Pass
		713.5	25	0	4.571	/	Pass
10	QPSK	704	50	0	9.113	/	Pass
		707.5	50	0	9.074	/	Pass
		711	50	0	9.025	/	Pass
	16QAM	704	50	0	9.114	/	Pass
		707.5	50	0	9.097	/	Pass
		711	50	0	9.035	/	Pass

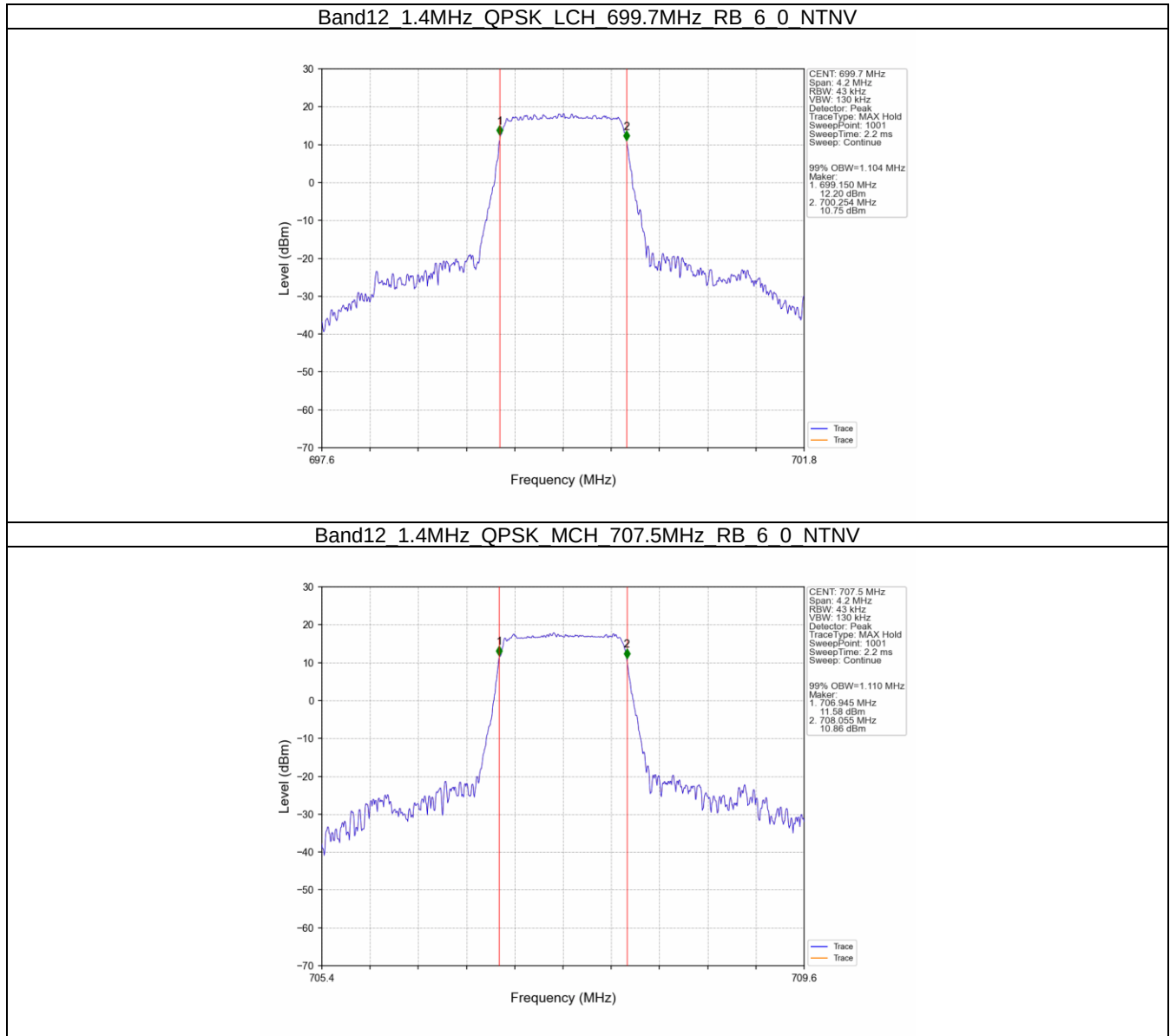
4.1.2 Band12_XDB

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	1.335	/	Pass
		707.5	6	0	1.317	/	Pass
		715.3	6	0	1.404	/	Pass
	16QAM	699.7	6	0	1.304	/	Pass
		707.5	6	0	1.331	/	Pass
		715.3	6	0	1.361	/	Pass
3	QPSK	700.5	15	0	2.988	/	Pass
		707.5	15	0	2.982	/	Pass
		714.5	15	0	3.003	/	Pass
	16QAM	700.5	15	0	2.979	/	Pass
		707.5	15	0	2.999	/	Pass
		714.5	15	0	2.989	/	Pass
5	QPSK	701.5	25	0	5.220	/	Pass
		707.5	25	0	5.234	/	Pass
		713.5	25	0	5.215	/	Pass

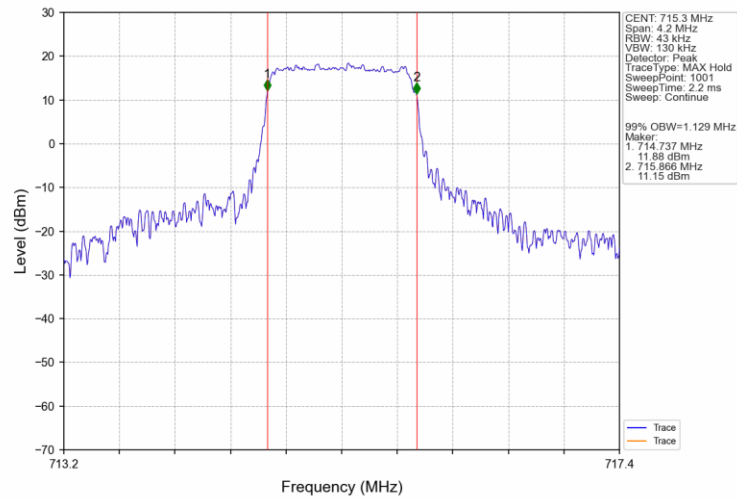
10	16QAM	701.5	25	0	5.222	/	Pass
		707.5	25	0	5.334	/	Pass
		713.5	25	0	5.219	/	Pass
	QPSK	704	50	0	10.252	/	Pass
		707.5	50	0	10.189	/	Pass
		711	50	0	10.177	/	Pass
	16QAM	704	50	0	10.212	/	Pass
		707.5	50	0	10.220	/	Pass
		711	50	0	10.070	/	Pass

4.2 Test Graph

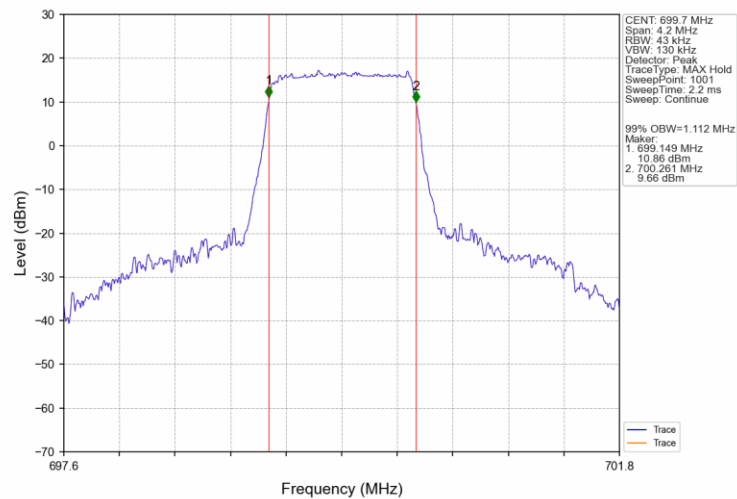
4.2.1 Band12_OBW



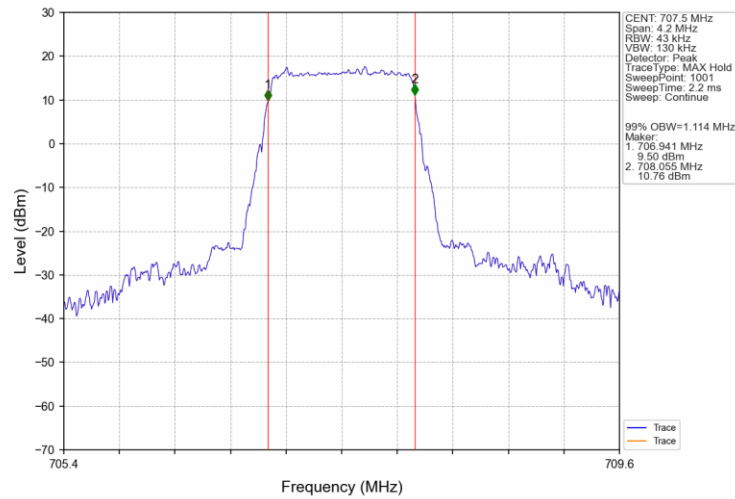
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



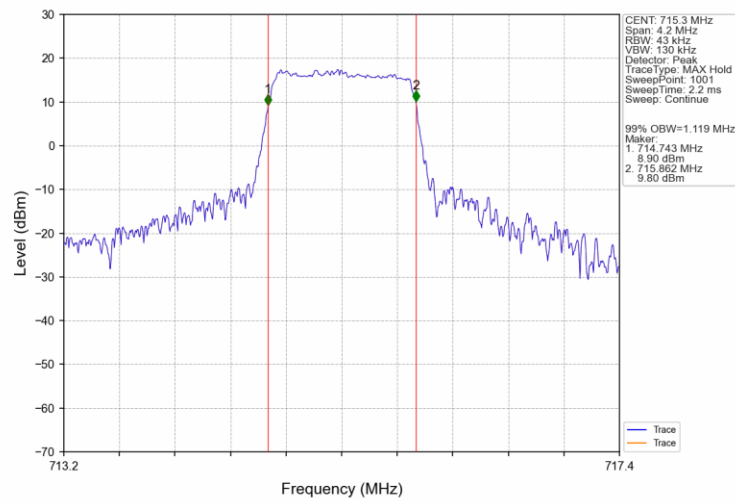
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



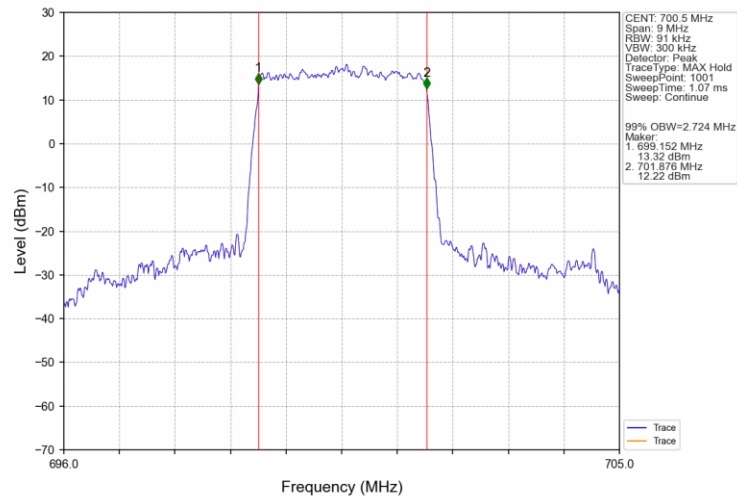
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



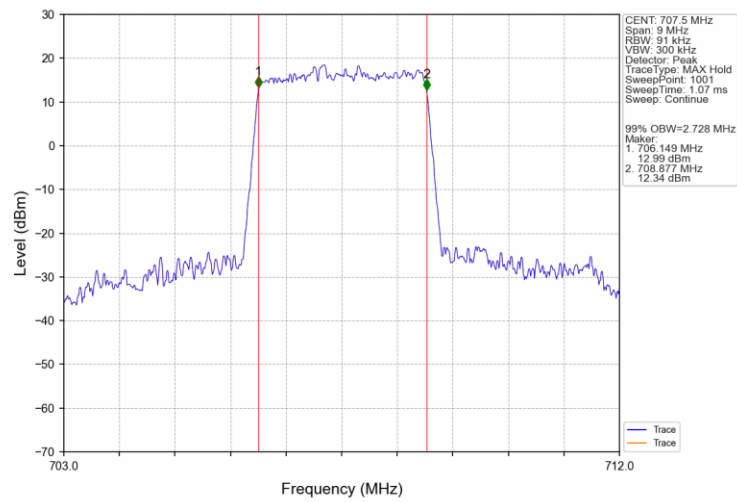
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



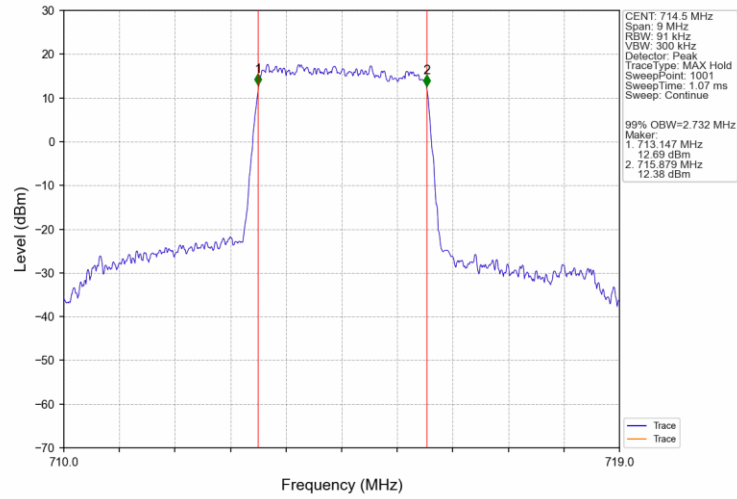
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



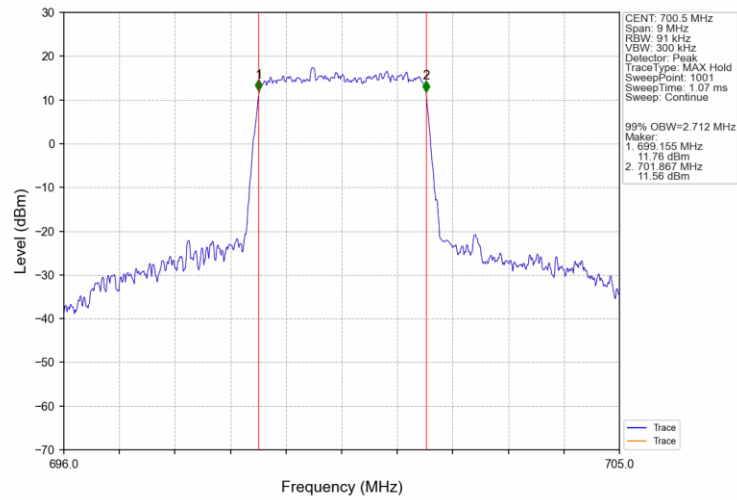
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



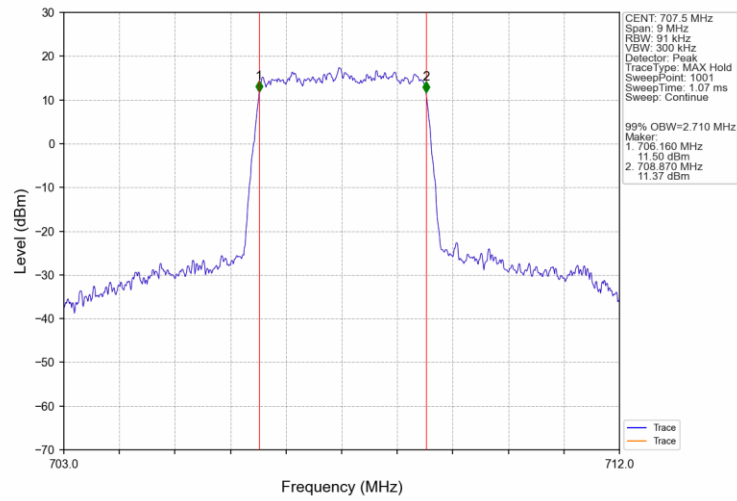
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



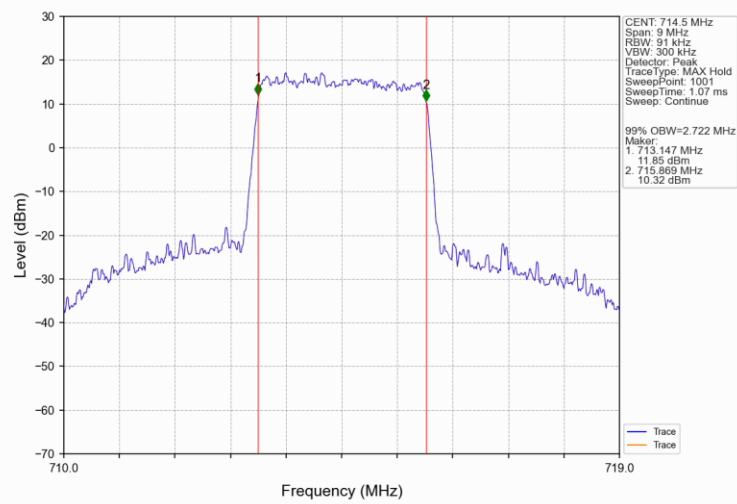
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



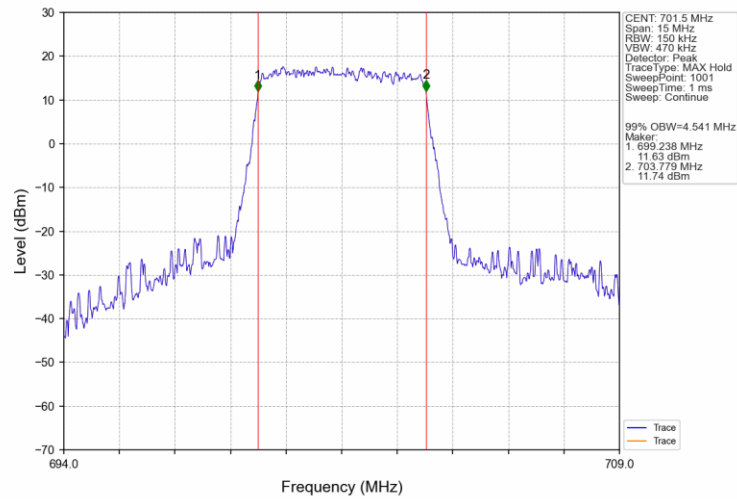
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



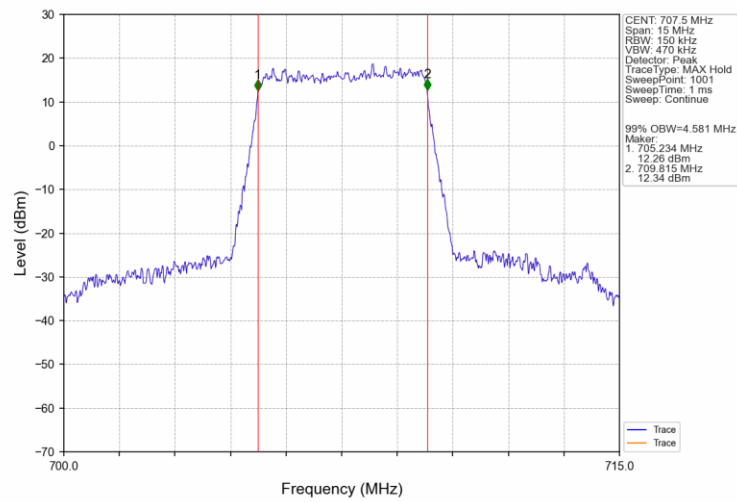
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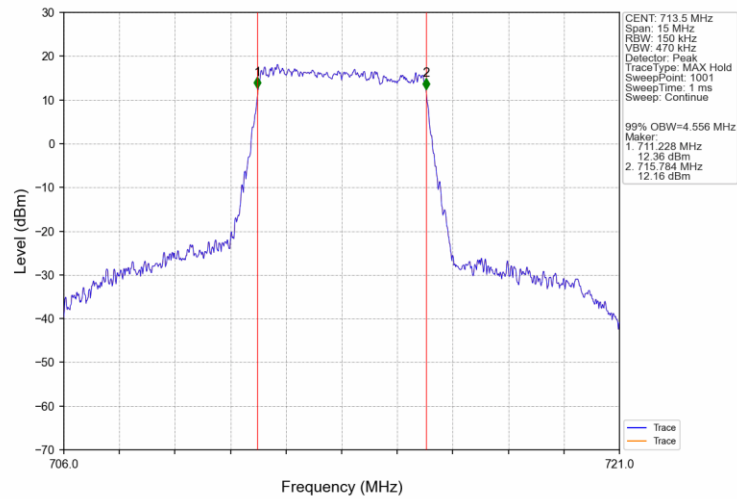
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



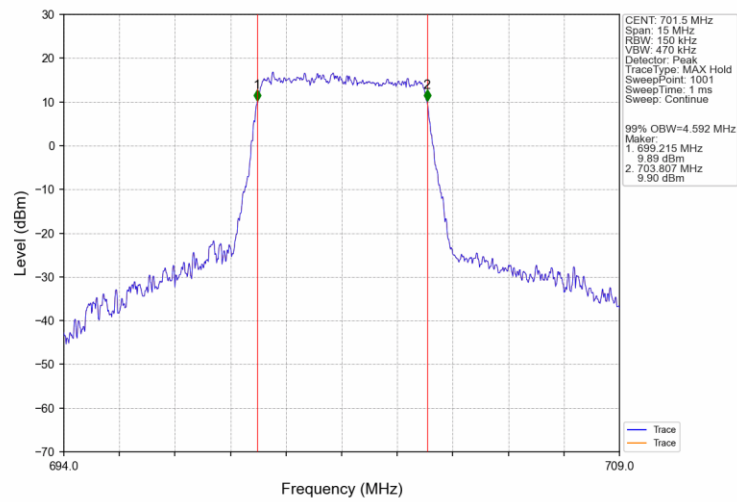
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



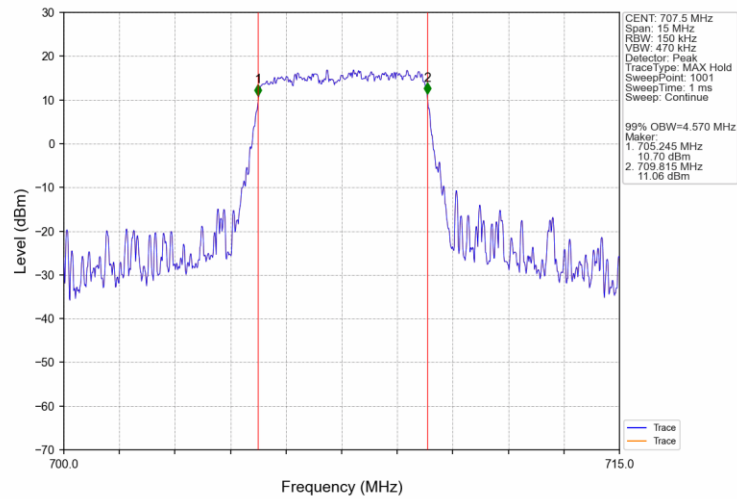
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



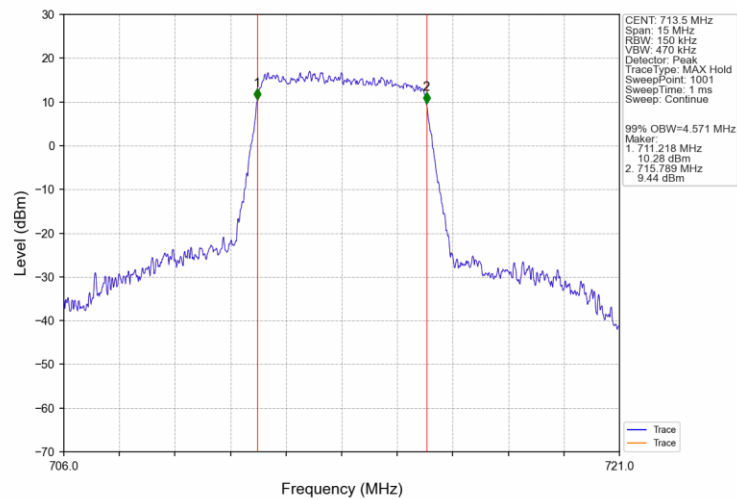
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



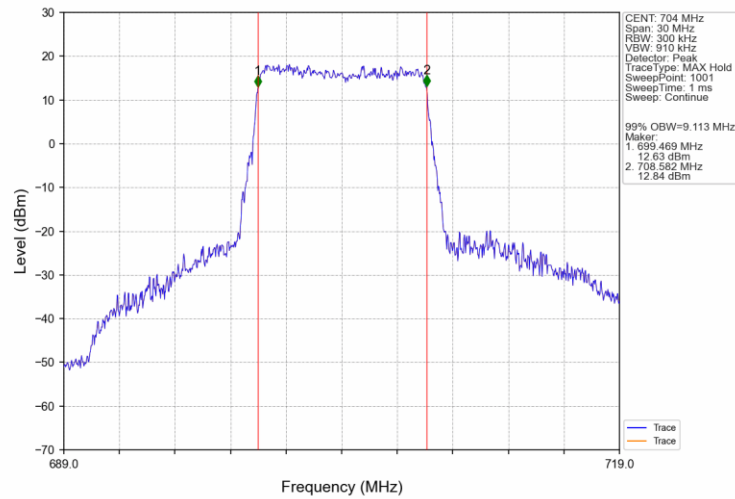
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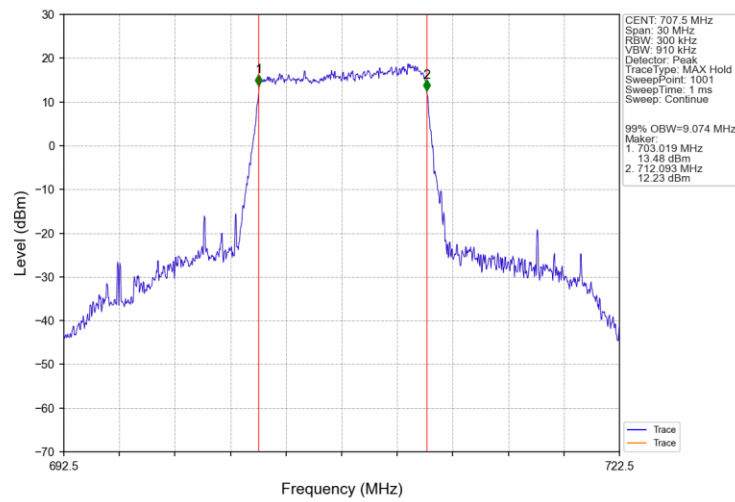
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



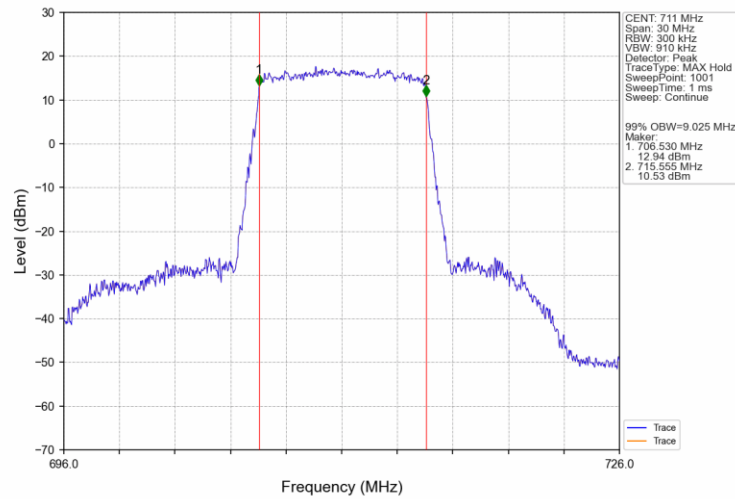
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



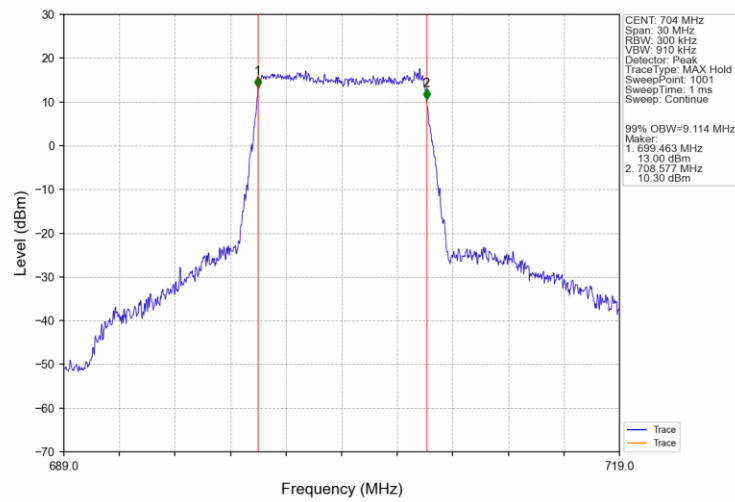
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



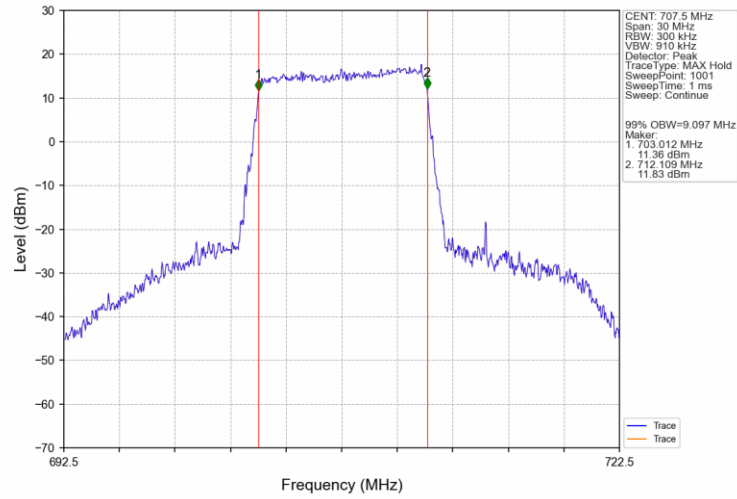
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



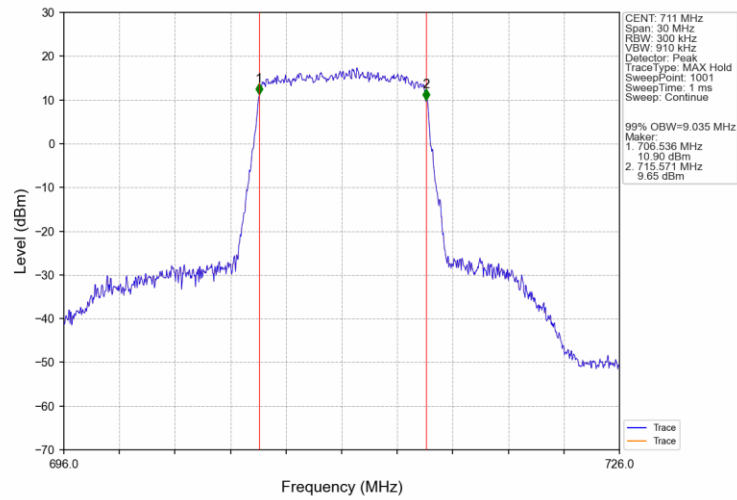
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV

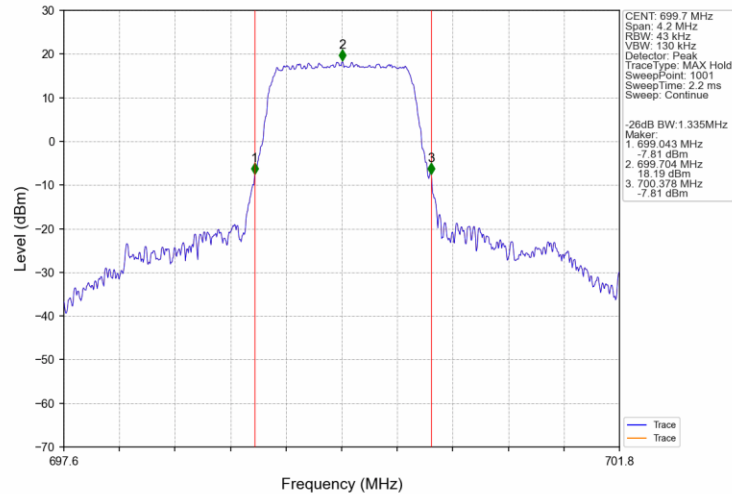


Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV

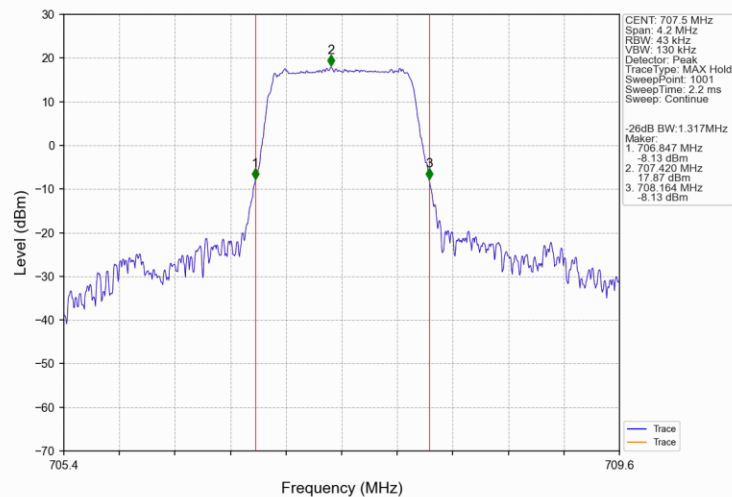


4.2.2 Band12_XDB

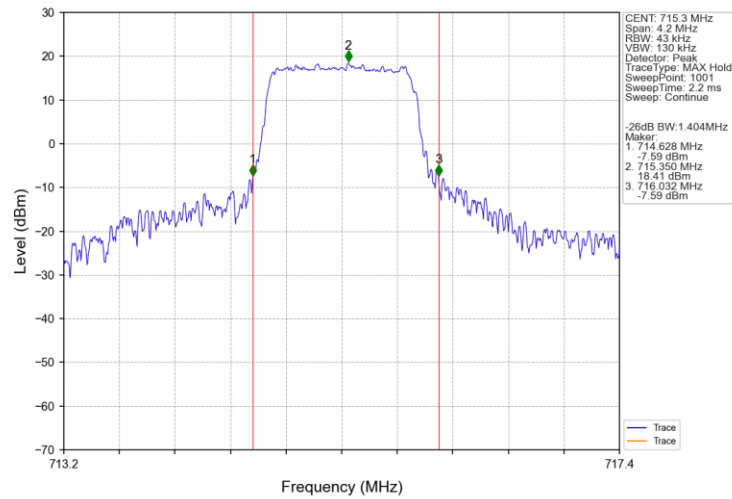
Band12 1.4MHz QPSK LCH 699.7MHz RB 6 0 NTV



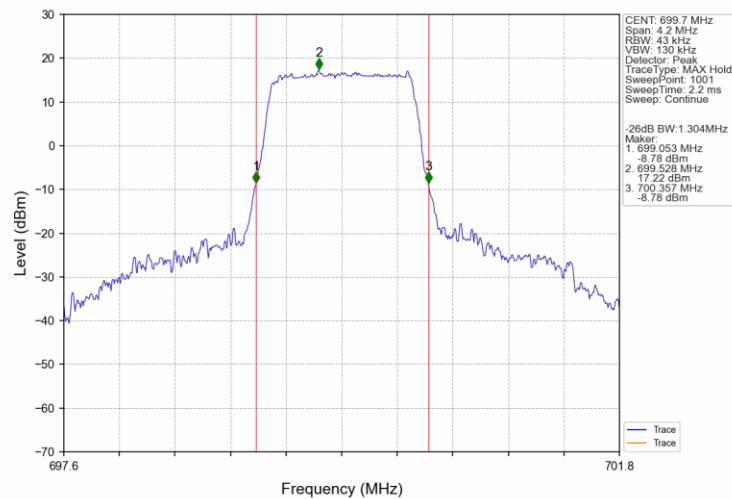
Band12 1.4MHz QPSK MCH 707.5MHz RB 6 0 NTV



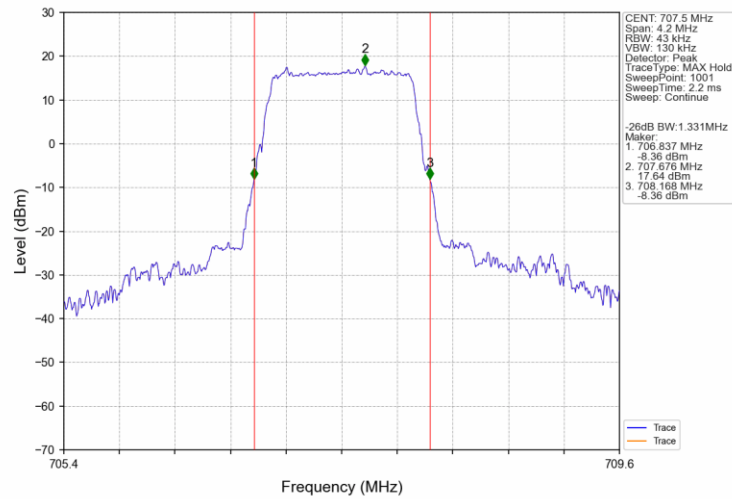
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



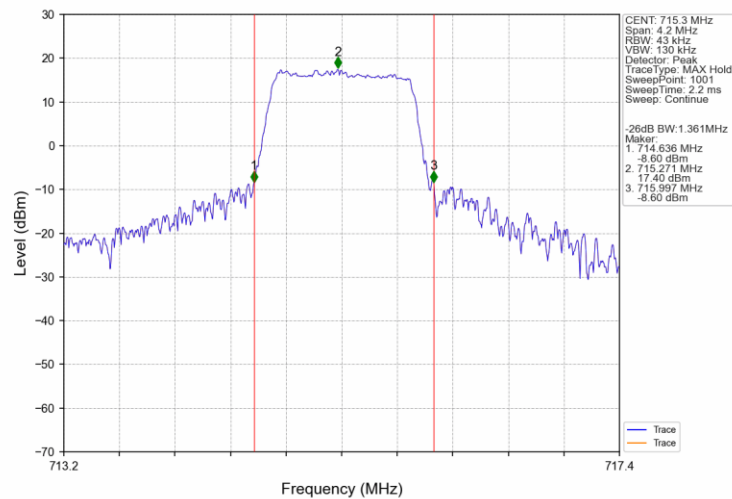
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



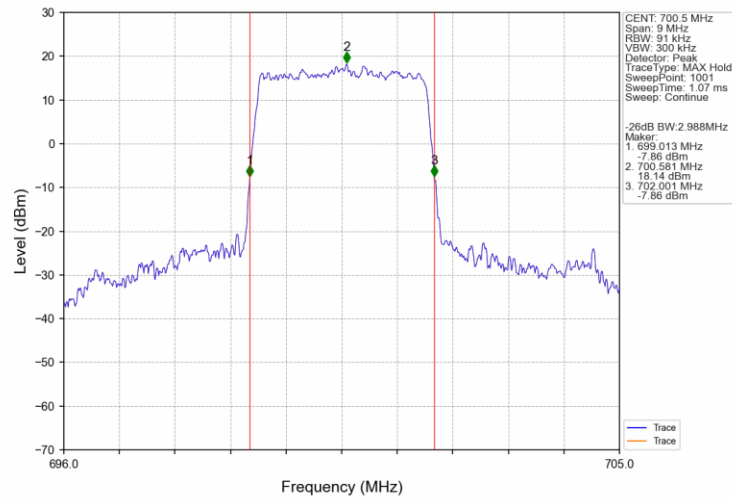
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



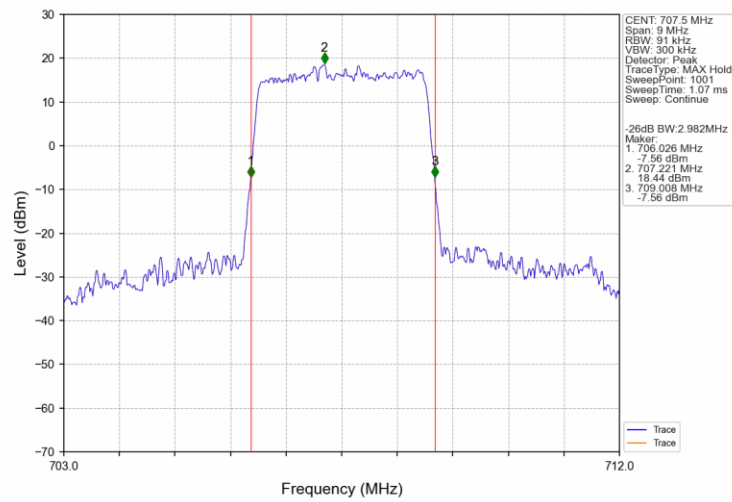
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



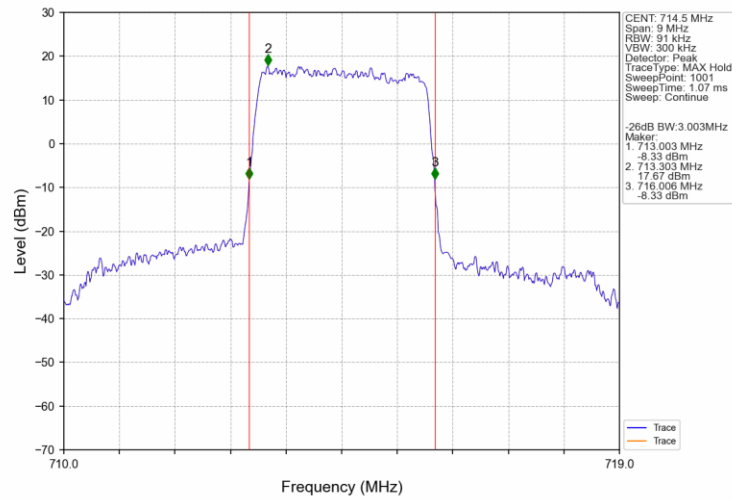
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



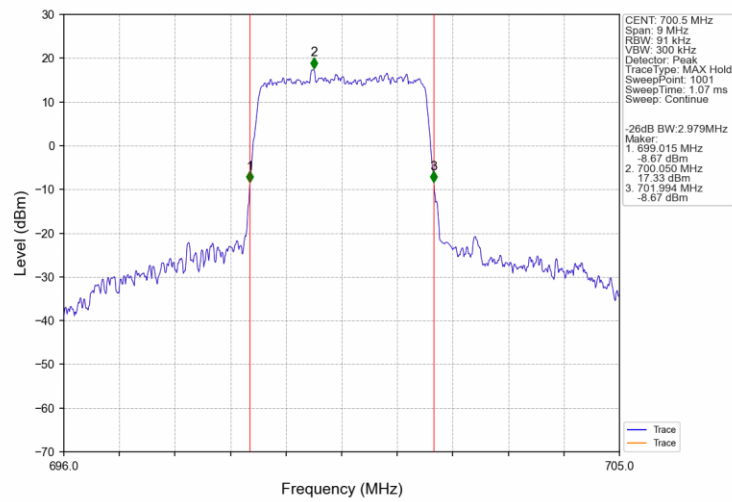
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



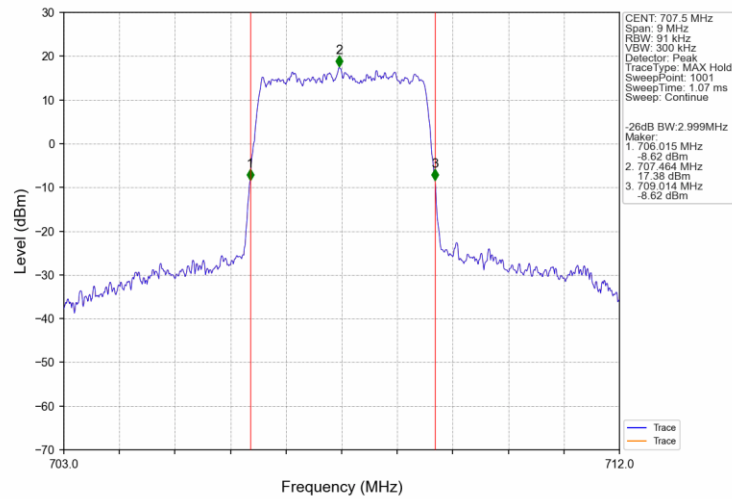
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



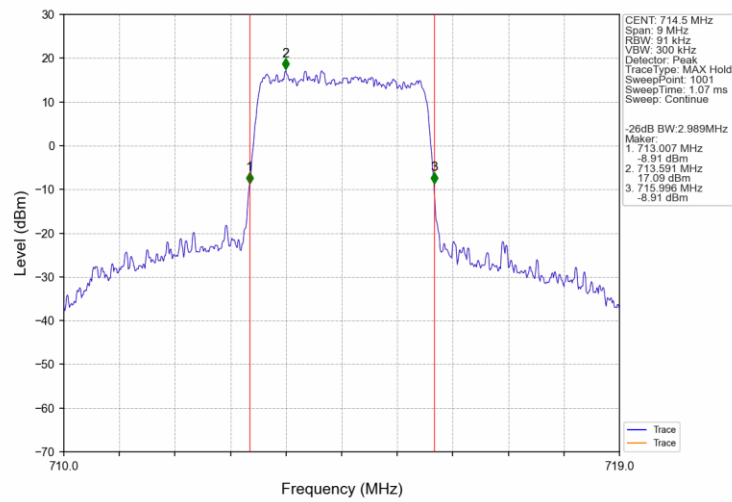
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



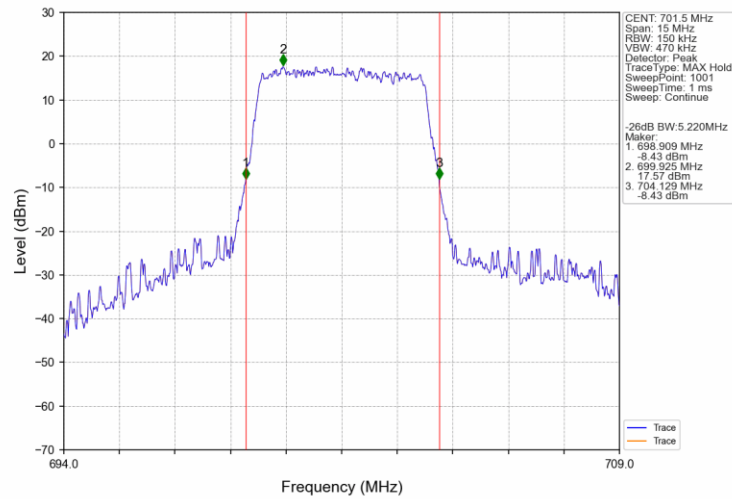
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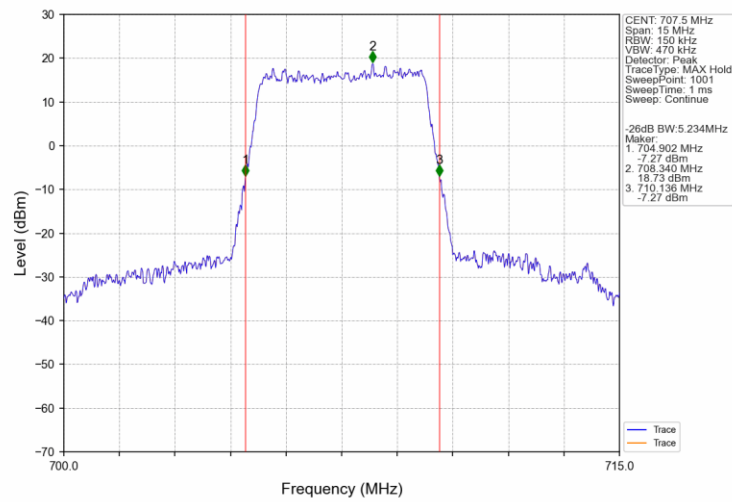
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



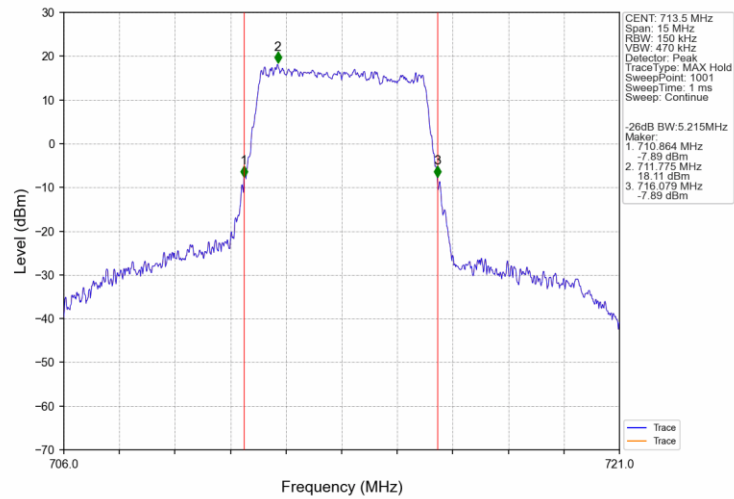
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



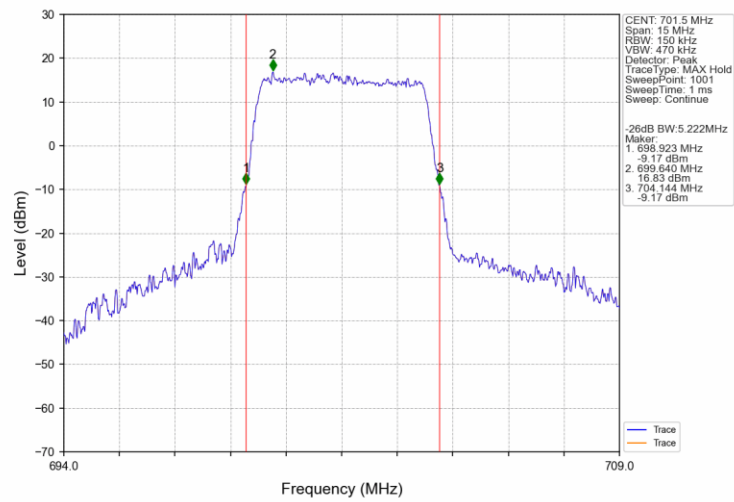
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



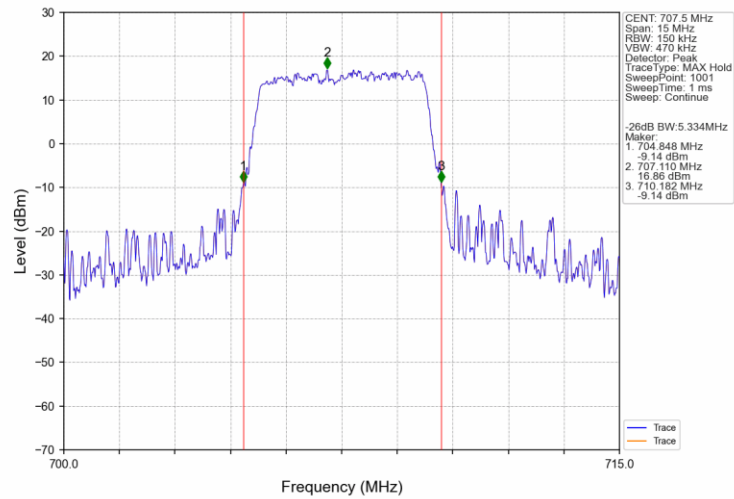
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



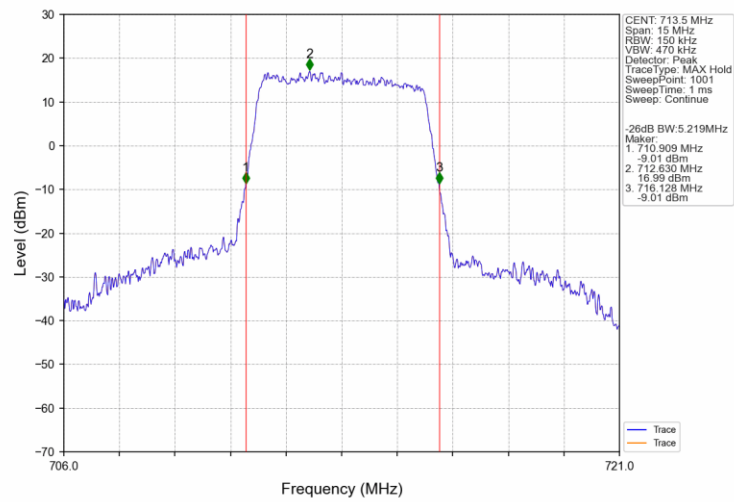
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



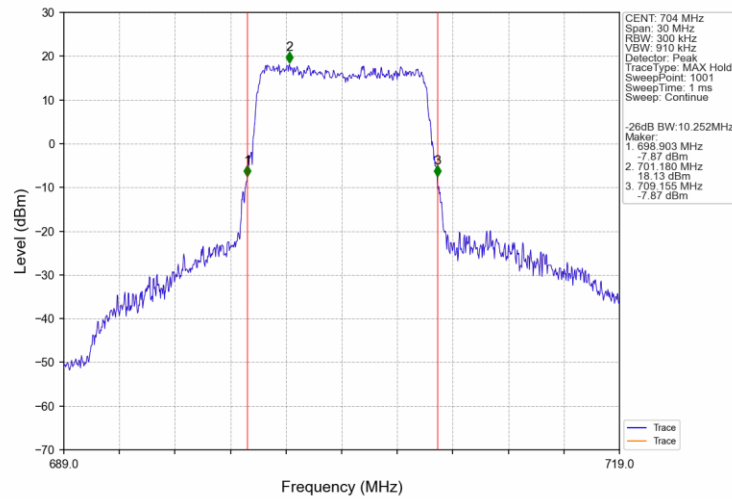
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



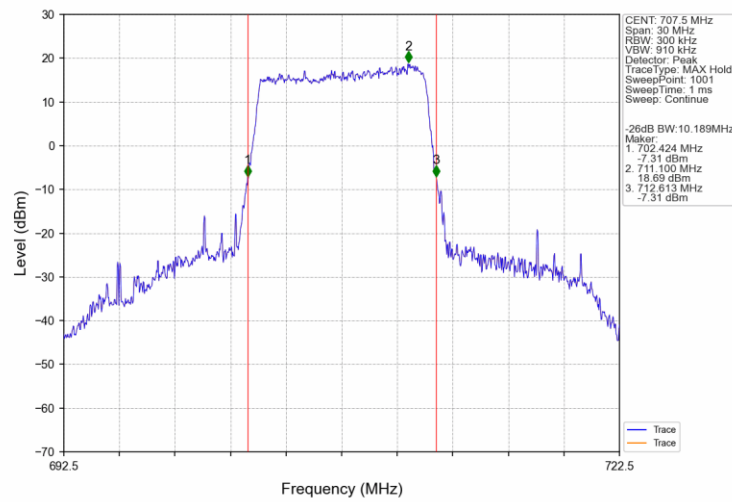
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



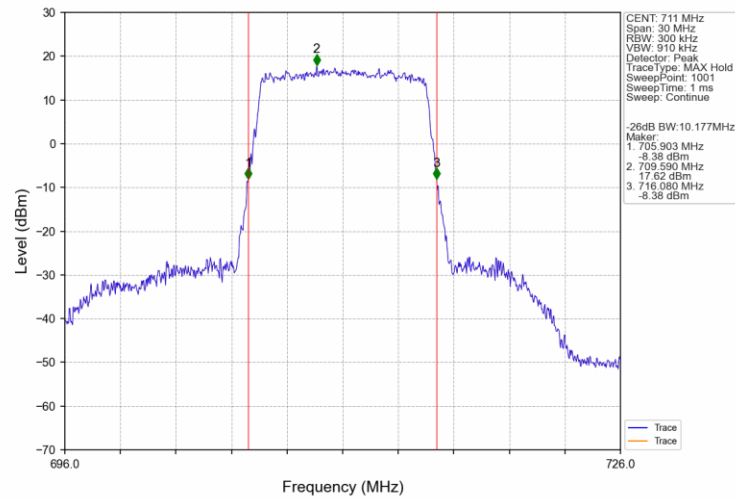
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



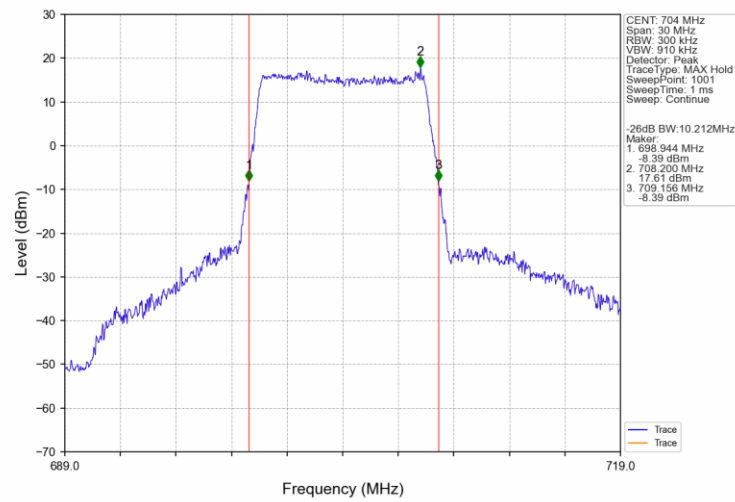
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



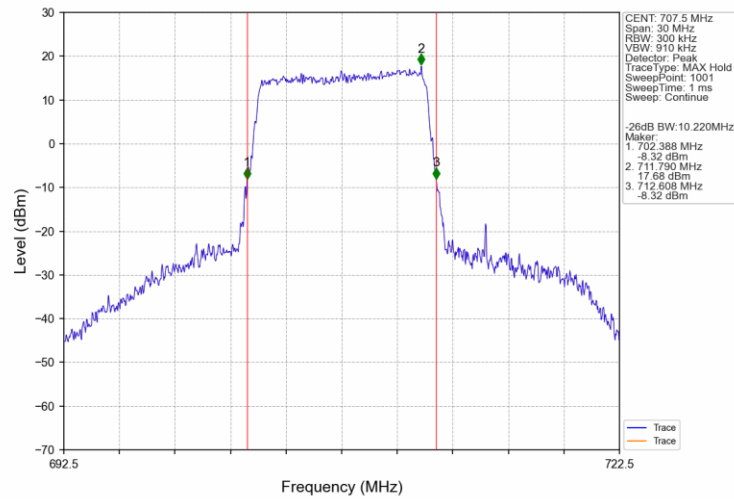
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



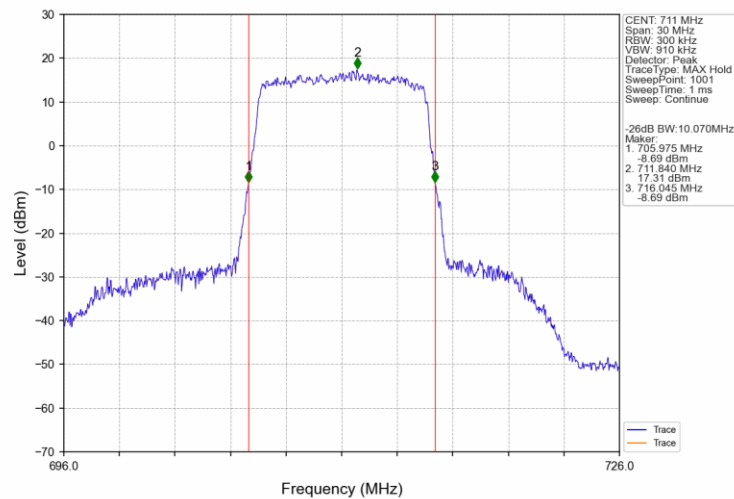
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	6	0	5.29	<=13	Pass
	707.5	6	0	5.47	<=13	Pass
	715.3	6	0	5.49	<=13	Pass
16QAM	699.7	6	0	6.08	<=13	Pass
	707.5	6	0	6.34	<=13	Pass
	715.3	6	0	6.26	<=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	5.47	<=13	Pass
	707.5	15	0	5.51	<=13	Pass
	714.5	15	0	5.56	<=13	Pass
16QAM	700.5	15	0	6.29	<=13	Pass
	707.5	15	0	6.39	<=13	Pass
	714.5	15	0	6.37	<=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	5.67	<=13	Pass
	707.5	25	0	5.74	<=13	Pass
	713.5	25	0	5.58	<=13	Pass
16QAM	701.5	25	0	6.40	<=13	Pass
	707.5	25	0	6.40	<=13	Pass
	713.5	25	0	6.36	<=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	5.74	<=13	Pass
	707.5	50	0	5.69	<=13	Pass
	711	50	0	5.42	<=13	Pass
16QAM	704	50	0	6.45	<=13	Pass
	707.5	50	0	6.46	<=13	Pass
	711	50	0	6.28	<=13	Pass



5.2 Test Graph

5.2.1 B12_1.4MHz

