

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	23.47	-2.63	18.69	<=34.77	Pass
			2	23.60	-2.63	18.82	<=34.77	Pass
			5	23.59	-2.63	18.81	<=34.77	Pass
		3	0	23.57	-2.63	18.79	<=34.77	Pass
			2	23.51	-2.63	18.73	<=34.77	Pass
			3	23.61	-2.63	18.83	<=34.77	Pass
		6	0	22.56	-2.63	17.78	<=34.77	Pass
	707.5	1	0	23.68	-2.63	18.90	<=34.77	Pass
			2	23.69	-2.63	18.91	<=34.77	Pass
			5	23.75	-2.63	18.97	<=34.77	Pass
		3	0	23.72	-2.63	18.94	<=34.77	Pass
			2	23.65	-2.63	18.87	<=34.77	Pass
			3	23.62	-2.63	18.84	<=34.77	Pass
		6	0	22.70	-2.63	17.92	<=34.77	Pass
	715.3	1	0	23.60	-2.63	18.82	<=34.77	Pass
			2	23.59	-2.63	18.81	<=34.77	Pass
			5	23.56	-2.63	18.78	<=34.77	Pass
		3	0	23.70	-2.63	18.92	<=34.77	Pass
			2	23.66	-2.63	18.88	<=34.77	Pass
			3	23.58	-2.63	18.80	<=34.77	Pass
		6	0	22.62	-2.63	17.84	<=34.77	Pass
16QAM	699.7	1	0	22.74	-2.63	17.96	<=34.77	Pass
			2	22.71	-2.63	17.93	<=34.77	Pass
			5	22.85	-2.63	18.07	<=34.77	Pass
		3	0	22.53	-2.63	17.75	<=34.77	Pass
			2	22.54	-2.63	17.76	<=34.77	Pass
			3	22.61	-2.63	17.83	<=34.77	Pass
		6	0	22.11	-2.63	17.33	<=34.77	Pass
	707.5	1	0	22.15	-2.63	17.37	<=34.77	Pass
			2	22.29	-2.63	17.51	<=34.77	Pass
			5	22.21	-2.63	17.43	<=34.77	Pass
		3	0	22.49	-2.63	17.71	<=34.77	Pass
			2	22.43	-2.63	17.65	<=34.77	Pass
			3	22.48	-2.63	17.70	<=34.77	Pass
		6	0	22.11	-2.63	17.33	<=34.77	Pass
	715.3	1	0	22.81	-2.63	18.03	<=34.77	Pass
			2	22.73	-2.63	17.95	<=34.77	Pass
			5	22.77	-2.63	17.99	<=34.77	Pass
		3	0	22.55	-2.63	17.77	<=34.77	Pass
			2	22.54	-2.63	17.76	<=34.77	Pass
			3	22.56	-2.63	17.78	<=34.77	Pass
		6	0	21.72	-2.63	16.94	<=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	23.44	-2.63	18.66	<=34.77	Pass
			7	23.43	-2.63	18.65	<=34.77	Pass
			14	23.49	-2.63	18.71	<=34.77	Pass
		8	0	22.50	-2.63	17.72	<=34.77	Pass
			4	22.57	-2.63	17.79	<=34.77	Pass
			7	22.57	-2.63	17.79	<=34.77	Pass
		15	0	22.53	-2.63	17.75	<=34.77	Pass
	707.5	1	0	23.56	-2.63	18.78	<=34.77	Pass
			7	23.54	-2.63	18.76	<=34.77	Pass
			14	23.60	-2.63	18.82	<=34.77	Pass
		8	0	22.65	-2.63	17.87	<=34.77	Pass
			4	22.75	-2.63	17.97	<=34.77	Pass
			7	22.76	-2.63	17.98	<=34.77	Pass
		15	0	22.72	-2.63	17.94	<=34.77	Pass
	714.5	1	0	23.76	-2.63	18.98	<=34.77	Pass
			7	23.72	-2.63	18.94	<=34.77	Pass
			14	23.69	-2.63	18.91	<=34.77	Pass
		8	0	22.64	-2.63	17.86	<=34.77	Pass
			4	22.71	-2.63	17.93	<=34.77	Pass
			7	22.75	-2.63	17.97	<=34.77	Pass
		15	0	22.66	-2.63	17.88	<=34.77	Pass
16QAM	700.5	1	0	22.55	-2.63	17.77	<=34.77	Pass
			7	22.64	-2.63	17.86	<=34.77	Pass
			14	22.61	-2.63	17.83	<=34.77	Pass
		8	0	22.06	-2.63	17.28	<=34.77	Pass
			4	22.14	-2.63	17.36	<=34.77	Pass
			7	21.66	-2.63	16.88	<=34.77	Pass
		15	0	22.02	-2.63	17.24	<=34.77	Pass
	707.5	1	0	22.84	-2.63	18.06	<=34.77	Pass
			7	22.81	-2.63	18.03	<=34.77	Pass
			14	22.74	-2.63	17.96	<=34.77	Pass
		8	0	21.70	-2.63	16.92	<=34.77	Pass
			4	22.10	-2.63	17.32	<=34.77	Pass
			7	22.11	-2.63	17.33	<=34.77	Pass
		15	0	22.11	-2.63	17.33	<=34.77	Pass
	714.5	1	0	22.49	-2.63	17.71	<=34.77	Pass
			7	22.57	-2.63	17.79	<=34.77	Pass
			14	22.37	-2.63	17.59	<=34.77	Pass
		8	0	21.81	-2.63	17.03	<=34.77	Pass
			4	21.85	-2.63	17.07	<=34.77	Pass
			7	21.90	-2.63	17.12	<=34.77	Pass
		15	0	21.67	-2.63	16.89	<=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 / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	701.5	1	0	23.43	-2.63	18.65	<=34.77	Pass
			13	23.36	-2.63	18.58	<=34.77	Pass
			24	23.49	-2.63	18.71	<=34.77	Pass
		12	0	22.52	-2.63	17.74	<=34.77	Pass
			6	22.46	-2.63	17.68	<=34.77	Pass
			13	22.59	-2.63	17.81	<=34.77	Pass
		25	0	22.49	-2.63	17.71	<=34.77	Pass
	707.5	1	0	23.72	-2.63	18.94	<=34.77	Pass
			13	23.68	-2.63	18.90	<=34.77	Pass
			24	23.81	-2.63	19.03	<=34.77	Pass
		12	0	22.67	-2.63	17.89	<=34.77	Pass
			6	22.74	-2.63	17.96	<=34.77	Pass
			13	22.74	-2.63	17.96	<=34.77	Pass
		25	0	22.66	-2.63	17.88	<=34.77	Pass
	713.5	1	0	23.71	-2.63	18.93	<=34.77	Pass
			13	23.49	-2.63	18.71	<=34.77	Pass
			24	23.57	-2.63	18.79	<=34.77	Pass
		12	0	22.77	-2.63	17.99	<=34.77	Pass
			6	22.63	-2.63	17.85	<=34.77	Pass
			13	22.77	-2.63	17.99	<=34.77	Pass
		25	0	22.71	-2.63	17.93	<=34.77	Pass
16QAM	701.5	1	0	21.57	-2.63	16.79	<=34.77	Pass
			13	21.59	-2.63	16.81	<=34.77	Pass
			24	21.75	-2.63	16.97	<=34.77	Pass
		12	0	21.97	-2.63	17.19	<=34.77	Pass
			6	21.47	-2.63	16.69	<=34.77	Pass
			13	21.52	-2.63	16.74	<=34.77	Pass
		25	0	21.51	-2.63	16.73	<=34.77	Pass
	707.5	1	0	22.44	-2.63	17.66	<=34.77	Pass
			13	22.44	-2.63	17.66	<=34.77	Pass
			24	22.41	-2.63	17.63	<=34.77	Pass
		12	0	21.62	-2.63	16.84	<=34.77	Pass
			6	21.94	-2.63	17.16	<=34.77	Pass
			13	21.94	-2.63	17.16	<=34.77	Pass
		25	0	21.97	-2.63	17.19	<=34.77	Pass
	713.5	1	0	22.73	-2.63	17.95	<=34.77	Pass
			13	22.69	-2.63	17.91	<=34.77	Pass
			24	22.66	-2.63	17.88	<=34.77	Pass
		12	0	21.72	-2.63	16.94	<=34.77	Pass
			6	21.72	-2.63	16.94	<=34.77	Pass
			13	21.74	-2.63	16.96	<=34.77	Pass
		25	0	21.84	-2.63	17.06	<=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	23.55	-2.63	18.77	<=34.77	Pass	
			25	23.61	-2.63	18.83	<=34.77	Pass	
			49	23.56	-2.63	18.78	<=34.77	Pass	
		25	0	22.54	-2.63	17.76	<=34.77	Pass	
			13	22.77	-2.63	17.99	<=34.77	Pass	
			25	22.73	-2.63	17.95	<=34.77	Pass	
		50	0	22.67	-2.63	17.89	<=34.77	Pass	
		707.5	1	0	23.47	-2.63	18.69	<=34.77	Pass
				25	23.61	-2.63	18.83	<=34.77	Pass
	49			23.67	-2.63	18.89	<=34.77	Pass	
	25		0	22.70	-2.63	17.92	<=34.77	Pass	
			13	22.73	-2.63	17.95	<=34.77	Pass	
			25	22.54	-2.63	17.76	<=34.77	Pass	
	50		0	22.76	-2.63	17.98	<=34.77	Pass	
	711		1	0	23.55	-2.63	18.77	<=34.77	Pass
				25	23.52	-2.63	18.74	<=34.77	Pass
		49		23.59	-2.63	18.81	<=34.77	Pass	
		25	0	22.66	-2.63	17.88	<=34.77	Pass	
			13	22.51	-2.63	17.73	<=34.77	Pass	
			25	22.75	-2.63	17.97	<=34.77	Pass	
		50	0	22.74	-2.63	17.96	<=34.77	Pass	
16QAM		704	1	0	22.56	-2.63	17.78	<=34.77	Pass
				25	22.75	-2.63	17.97	<=34.77	Pass
	49			22.74	-2.63	17.96	<=34.77	Pass	
	25		0	21.58	-2.63	16.80	<=34.77	Pass	
			13	21.97	-2.63	17.19	<=34.77	Pass	
			25	21.71	-2.63	16.93	<=34.77	Pass	
	50		0	22.11	-2.63	17.33	<=34.77	Pass	
	707.5		1	0	23.18	-2.63	18.40	<=34.77	Pass
				25	23.41	-2.63	18.63	<=34.77	Pass
		49		23.41	-2.63	18.63	<=34.77	Pass	
		25	0	21.66	-2.63	16.88	<=34.77	Pass	
			13	22.14	-2.63	17.36	<=34.77	Pass	
			25	21.65	-2.63	16.87	<=34.77	Pass	
		50	0	22.07	-2.63	17.29	<=34.77	Pass	
		711	1	0	22.41	-2.63	17.63	<=34.77	Pass
				25	22.33	-2.63	17.55	<=34.77	Pass
	49			22.40	-2.63	17.62	<=34.77	Pass	
	25		0	22.19	-2.63	17.41	<=34.77	Pass	
			13	21.80	-2.63	17.02	<=34.77	Pass	
			25	21.96	-2.63	17.18	<=34.77	Pass	
	50		0	21.66	-2.63	16.88	<=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	-11.945	-0.0171	-2.5 to 2.5	Pass
					3.85	-20.013	-0.0286	-2.5 to 2.5	Pass
					4.43	-26.393	-0.0377	-2.5 to 2.5	Pass
				-30	3.85	-32.787	-0.0469	-2.5 to 2.5	Pass
				-20	3.85	-37.980	-0.0543	-2.5 to 2.5	Pass
				-10	3.85	-43.201	-0.0617	-2.5 to 2.5	Pass
				0	3.85	4.506	0.0064	-2.5 to 2.5	Pass
				10	3.85	-0.072	-0.0001	-2.5 to 2.5	Pass
				30	3.85	-5.107	-0.0073	-2.5 to 2.5	Pass
				40	3.85	-11.473	-0.0164	-2.5 to 2.5	Pass
				50	3.85	-16.179	-0.0231	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	-11.230	-0.0159	-2.5 to 2.5	Pass
					3.85	-21.415	-0.0303	-2.5 to 2.5	Pass
					4.43	-37.680	-0.0533	-2.5 to 2.5	Pass
				-30	3.85	-44.889	-0.0634	-2.5 to 2.5	Pass
				-20	3.85	-47.350	-0.0669	-2.5 to 2.5	Pass
				-10	3.85	-4.249	-0.0060	-2.5 to 2.5	Pass
				0	3.85	-2.174	-0.0031	-2.5 to 2.5	Pass
				10	3.85	-1.073	-0.0015	-2.5 to 2.5	Pass
				30	3.85	-1.101	-0.0016	-2.5 to 2.5	Pass
				40	3.85	-1.903	-0.0027	-2.5 to 2.5	Pass
				50	3.85	-3.862	-0.0055	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	-2.503	-0.0035	-2.5 to 2.5	Pass
					3.85	-26.751	-0.0374	-2.5 to 2.5	Pass
					4.43	-32.830	-0.0459	-2.5 to 2.5	Pass
				-30	3.85	-37.394	-0.0523	-2.5 to 2.5	Pass
				-20	3.85	-39.468	-0.0552	-2.5 to 2.5	Pass
				-10	3.85	-40.598	-0.0568	-2.5 to 2.5	Pass
				0	3.85	-38.166	-0.0534	-2.5 to 2.5	Pass
				10	3.85	-36.678	-0.0513	-2.5 to 2.5	Pass
				30	3.85	-36.178	-0.0506	-2.5 to 2.5	Pass
				40	3.85	-36.736	-0.0514	-2.5 to 2.5	Pass
16QAM	699.7	6	0	20	3.27	-22.974	-0.0328	-2.5 to 2.5	Pass
					3.85	-26.565	-0.0380	-2.5 to 2.5	Pass
					4.43	-25.735	-0.0368	-2.5 to 2.5	Pass
				-30	3.85	-22.774	-0.0325	-2.5 to 2.5	Pass
				-20	3.85	-18.082	-0.0258	-2.5 to 2.5	Pass
				-10	3.85	-12.989	-0.0186	-2.5 to 2.5	Pass
				0	3.85	-7.782	-0.0111	-2.5 to 2.5	Pass
				10	3.85	-2.818	-0.0040	-2.5 to 2.5	Pass
				30	3.85	2.060	0.0029	-2.5 to 2.5	Pass
				40	3.85	6.809	0.0097	-2.5 to 2.5	Pass
				50	3.85	11.387	0.0163	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	-4.463	-0.0063	-2.5 to 2.5	Pass
					3.85	-5.980	-0.0085	-2.5 to 2.5	Pass
					4.43	-7.968	-0.0113	-2.5 to 2.5	Pass
				-30	3.85	-9.799	-0.0139	-2.5 to 2.5	Pass
				-20	3.85	-12.503	-0.0177	-2.5 to 2.5	Pass
				-10	3.85	-14.434	-0.0204	-2.5 to 2.5	Pass
				0	3.85	-18.153	-0.0257	-2.5 to 2.5	Pass
				10	3.85	-20.571	-0.0291	-2.5 to 2.5	Pass
				30	3.85	-23.789	-0.0336	-2.5 to 2.5	Pass
				40	3.85	-33.903	-0.0479	-2.5 to 2.5	Pass
	715.3	6	0	50	3.85	-36.964	-0.0522	-2.5 to 2.5	Pass
				20	3.27	-37.351	-0.0522	-2.5 to 2.5	Pass

					3.85	-36.521	-0.0511	-2.5 to 2.5	Pass
					4.43	-36.564	-0.0511	-2.5 to 2.5	Pass
				-30	3.85	-38.066	-0.0532	-2.5 to 2.5	Pass
				-20	3.85	-39.940	-0.0558	-2.5 to 2.5	Pass
				-10	3.85	-41.070	-0.0574	-2.5 to 2.5	Pass
				0	3.85	-43.173	-0.0604	-2.5 to 2.5	Pass
				10	3.85	-45.319	-0.0634	-2.5 to 2.5	Pass
				30	3.85	-46.477	-0.0650	-2.5 to 2.5	Pass
				40	3.85	-48.151	-0.0673	-2.5 to 2.5	Pass
				50	3.85	0.386	0.0005	-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	-11.301	-0.0161	-2.5 to 2.5	Pass
					3.85	-32.616	-0.0466	-2.5 to 2.5	Pass
					4.43	-42.715	-0.0610	-2.5 to 2.5	Pass
				-30	3.85	-3.490	-0.0050	-2.5 to 2.5	Pass
				-20	3.85	-10.672	-0.0152	-2.5 to 2.5	Pass
				-10	3.85	-18.597	-0.0265	-2.5 to 2.5	Pass
				0	3.85	-26.522	-0.0379	-2.5 to 2.5	Pass
				10	3.85	-35.048	-0.0500	-2.5 to 2.5	Pass
				30	3.85	-42.200	-0.0602	-2.5 to 2.5	Pass
				40	3.85	-4.535	-0.0065	-2.5 to 2.5	Pass
				50	3.85	-13.418	-0.0192	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	-5.050	-0.0071	-2.5 to 2.5	Pass
					3.85	-1.760	-0.0025	-2.5 to 2.5	Pass
					4.43	1.330	0.0019	-2.5 to 2.5	Pass
				-30	3.85	4.749	0.0067	-2.5 to 2.5	Pass
				-20	3.85	7.696	0.0109	-2.5 to 2.5	Pass
				-10	3.85	10.672	0.0151	-2.5 to 2.5	Pass
				0	3.85	13.046	0.0184	-2.5 to 2.5	Pass
				10	3.85	15.621	0.0221	-2.5 to 2.5	Pass
				30	3.85	17.395	0.0246	-2.5 to 2.5	Pass
				40	3.85	19.627	0.0277	-2.5 to 2.5	Pass
				50	3.85	19.283	0.0273	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-8.669	-0.0121	-2.5 to 2.5	Pass
					3.85	-10.657	-0.0149	-2.5 to 2.5	Pass
					4.43	-17.967	-0.0251	-2.5 to 2.5	Pass
				-30	3.85	-26.650	-0.0373	-2.5 to 2.5	Pass
				-20	3.85	-37.980	-0.0532	-2.5 to 2.5	Pass
				-10	3.85	-48.137	-0.0674	-2.5 to 2.5	Pass
				0	3.85	-5.264	-0.0074	-2.5 to 2.5	Pass
				10	3.85	-16.880	-0.0236	-2.5 to 2.5	Pass
				30	3.85	-27.637	-0.0387	-2.5 to 2.5	Pass
				40	3.85	-38.366	-0.0537	-2.5 to 2.5	Pass
				50	3.85	0.744	0.0010	-2.5 to 2.5	Pass
16QAM	700.5	15	0	20	3.27	-21.358	-0.0305	-2.5 to 2.5	Pass
					3.85	-29.640	-0.0423	-2.5 to 2.5	Pass
					4.43	-36.664	-0.0523	-2.5 to 2.5	Pass
				-30	3.85	-44.017	-0.0628	-2.5 to 2.5	Pass
				-20	3.85	1.030	0.0015	-2.5 to 2.5	Pass
				-10	3.85	-6.123	-0.0087	-2.5 to 2.5	Pass

	707.5	15	0	0	3.85	-16.737	-0.0239	-2.5 to 2.5	Pass
				10	3.85	-21.458	-0.0306	-2.5 to 2.5	Pass
				30	3.85	-24.605	-0.0351	-2.5 to 2.5	Pass
				40	3.85	-22.802	-0.0326	-2.5 to 2.5	Pass
				50	3.85	-18.926	-0.0270	-2.5 to 2.5	Pass
				20	3.27	20.971	0.0296	-2.5 to 2.5	Pass
					3.85	23.403	0.0331	-2.5 to 2.5	Pass
					4.43	25.163	0.0356	-2.5 to 2.5	Pass
				-30	3.85	26.336	0.0372	-2.5 to 2.5	Pass
				-20	3.85	27.838	0.0393	-2.5 to 2.5	Pass
				-10	3.85	29.454	0.0416	-2.5 to 2.5	Pass
				0	3.85	27.151	0.0384	-2.5 to 2.5	Pass
	714.5	15	0	10	3.85	28.567	0.0404	-2.5 to 2.5	Pass
				30	3.85	29.726	0.0420	-2.5 to 2.5	Pass
				40	3.85	30.699	0.0434	-2.5 to 2.5	Pass
				50	3.85	32.330	0.0457	-2.5 to 2.5	Pass
				20	3.27	-10.471	-0.0147	-2.5 to 2.5	Pass
					3.85	-17.352	-0.0243	-2.5 to 2.5	Pass
					4.43	-25.034	-0.0350	-2.5 to 2.5	Pass
				-30	3.85	-33.903	-0.0474	-2.5 to 2.5	Pass
				-20	3.85	-41.099	-0.0575	-2.5 to 2.5	Pass
				-10	3.85	-3.119	-0.0044	-2.5 to 2.5	Pass
				0	3.85	-11.072	-0.0155	-2.5 to 2.5	Pass
				10	3.85	-17.924	-0.0251	-2.5 to 2.5	Pass
				30	3.85	-25.392	-0.0355	-2.5 to 2.5	Pass
				40	3.85	-32.845	-0.0460	-2.5 to 2.5	Pass
				50	3.85	-39.539	-0.0553	-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	-4.892	-0.0070	-2.5 to 2.5	Pass
					3.85	-9.127	-0.0130	-2.5 to 2.5	Pass
					4.43	-8.769	-0.0125	-2.5 to 2.5	Pass
				-30	3.85	-4.678	-0.0067	-2.5 to 2.5	Pass
				-20	3.85	0.229	0.0003	-2.5 to 2.5	Pass
				-10	3.85	6.123	0.0087	-2.5 to 2.5	Pass
				0	3.85	11.730	0.0167	-2.5 to 2.5	Pass
				10	3.85	17.624	0.0251	-2.5 to 2.5	Pass
				30	3.85	21.143	0.0301	-2.5 to 2.5	Pass
				40	3.85	26.364	0.0376	-2.5 to 2.5	Pass
				50	3.85	29.483	0.0420	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-3.018	-0.0043	-2.5 to 2.5	Pass
					3.85	-2.518	-0.0036	-2.5 to 2.5	Pass
					4.43	-0.815	-0.0012	-2.5 to 2.5	Pass
				-30	3.85	1.445	0.0020	-2.5 to 2.5	Pass
				-20	3.85	2.475	0.0035	-2.5 to 2.5	Pass
				-10	3.85	4.478	0.0063	-2.5 to 2.5	Pass
				0	3.85	6.008	0.0085	-2.5 to 2.5	Pass
				10	3.85	4.706	0.0067	-2.5 to 2.5	Pass
				30	3.85	6.065	0.0086	-2.5 to 2.5	Pass
				40	3.85	7.467	0.0106	-2.5 to 2.5	Pass
				50	3.85	8.497	0.0120	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	1.602	0.0022	-2.5 to 2.5	Pass
					3.85	0.501	0.0007	-2.5 to 2.5	Pass

16QAM	701.5	25	0		4.43	0.529	0.0007	-2.5 to 2.5	Pass
				-30	3.85	0.744	0.0010	-2.5 to 2.5	Pass
				-20	3.85	1.116	0.0016	-2.5 to 2.5	Pass
				-10	3.85	2.017	0.0028	-2.5 to 2.5	Pass
				0	3.85	1.531	0.0021	-2.5 to 2.5	Pass
				10	3.85	2.375	0.0033	-2.5 to 2.5	Pass
				30	3.85	2.532	0.0035	-2.5 to 2.5	Pass
				40	3.85	2.789	0.0039	-2.5 to 2.5	Pass
				50	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	35.262	0.0503	-2.5 to 2.5	Pass
					3.85	40.812	0.0582	-2.5 to 2.5	Pass
					4.43	44.847	0.0639	-2.5 to 2.5	Pass
				-30	3.85	48.637	0.0693	-2.5 to 2.5	Pass
				-20	3.85	7.195	0.0103	-2.5 to 2.5	Pass
				-10	3.85	10.715	0.0153	-2.5 to 2.5	Pass
				0	3.85	13.275	0.0189	-2.5 to 2.5	Pass
				10	3.85	17.066	0.0243	-2.5 to 2.5	Pass
				30	3.85	19.870	0.0283	-2.5 to 2.5	Pass
				40	3.85	23.160	0.0330	-2.5 to 2.5	Pass
				50	3.85	25.377	0.0362	-2.5 to 2.5	Pass
				20	3.27	9.799	0.0139	-2.5 to 2.5	Pass
					3.85	11.802	0.0167	-2.5 to 2.5	Pass
					4.43	13.518	0.0191	-2.5 to 2.5	Pass
				-30	3.85	14.606	0.0206	-2.5 to 2.5	Pass
				-20	3.85	15.764	0.0223	-2.5 to 2.5	Pass
				-10	3.85	16.980	0.0240	-2.5 to 2.5	Pass
				0	3.85	17.924	0.0253	-2.5 to 2.5	Pass
				10	3.85	18.897	0.0267	-2.5 to 2.5	Pass
				30	3.85	20.099	0.0284	-2.5 to 2.5	Pass
				40	3.85	1.774	0.0025	-2.5 to 2.5	Pass
				50	3.85	16.565	0.0234	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	0.830	0.0012	-2.5 to 2.5	Pass
					3.85	2.632	0.0037	-2.5 to 2.5	Pass
					4.43	3.662	0.0051	-2.5 to 2.5	Pass
				-30	3.85	4.349	0.0061	-2.5 to 2.5	Pass
				-20	3.85	4.764	0.0067	-2.5 to 2.5	Pass
				-10	3.85	6.080	0.0085	-2.5 to 2.5	Pass
				0	3.85	6.437	0.0090	-2.5 to 2.5	Pass
				10	3.85	7.267	0.0102	-2.5 to 2.5	Pass
				30	3.85	8.411	0.0118	-2.5 to 2.5	Pass
				40	3.85	8.941	0.0125	-2.5 to 2.5	Pass
				50	3.85	10.242	0.0144	-2.5 to 2.5	Pass

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	-10.099	-0.0143	-2.5 to 2.5	Pass
					3.85	-15.593	-0.0221	-2.5 to 2.5	Pass
					4.43	-25.606	-0.0364	-2.5 to 2.5	Pass
				-30	3.85	-37.637	-0.0535	-2.5 to 2.5	Pass
				-20	3.85	3.862	0.0055	-2.5 to 2.5	Pass
				-10	3.85	-8.912	-0.0127	-2.5 to 2.5	Pass
				0	3.85	-20.456	-0.0291	-2.5 to 2.5	Pass

	707.5	50	0	10	3.85	-33.016	-0.0469	-2.5 to 2.5	Pass
				30	3.85	-43.702	-0.0621	-2.5 to 2.5	Pass
				40	3.85	-8.397	-0.0119	-2.5 to 2.5	Pass
				50	3.85	-19.741	-0.0280	-2.5 to 2.5	Pass
				20	3.27	0.429	0.0006	-2.5 to 2.5	Pass
					3.85	-5.822	-0.0082	-2.5 to 2.5	Pass
					4.43	-10.829	-0.0153	-2.5 to 2.5	Pass
				-30	3.85	-15.678	-0.0222	-2.5 to 2.5	Pass
				-20	3.85	-21.386	-0.0302	-2.5 to 2.5	Pass
				-10	3.85	-25.406	-0.0359	-2.5 to 2.5	Pass
				0	3.85	-29.368	-0.0415	-2.5 to 2.5	Pass
				10	3.85	-34.704	-0.0491	-2.5 to 2.5	Pass
	711	50	0	30	3.85	-39.868	-0.0564	-2.5 to 2.5	Pass
				40	3.85	-44.189	-0.0625	-2.5 to 2.5	Pass
				50	3.85	-4.220	-0.0060	-2.5 to 2.5	Pass
				20	3.27	0.043	0.0001	-2.5 to 2.5	Pass
					3.85	1.631	0.0023	-2.5 to 2.5	Pass
					4.43	-3.119	-0.0044	-2.5 to 2.5	Pass
				-30	3.85	-6.537	-0.0092	-2.5 to 2.5	Pass
				-20	3.85	-13.947	-0.0196	-2.5 to 2.5	Pass
				-10	3.85	-22.731	-0.0320	-2.5 to 2.5	Pass
				0	3.85	-30.642	-0.0431	-2.5 to 2.5	Pass
				10	3.85	-37.379	-0.0526	-2.5 to 2.5	Pass
				30	3.85	-44.389	-0.0624	-2.5 to 2.5	Pass
				40	3.85	-1.473	-0.0021	-2.5 to 2.5	Pass
				50	3.85	-10.200	-0.0143	-2.5 to 2.5	Pass
16QAM	704	50	0	20	3.27	-29.755	-0.0423	-2.5 to 2.5	Pass
					3.85	-37.465	-0.0532	-2.5 to 2.5	Pass
					4.43	-44.932	-0.0638	-2.5 to 2.5	Pass
				-30	3.85	-3.276	-0.0047	-2.5 to 2.5	Pass
				-20	3.85	-11.601	-0.0165	-2.5 to 2.5	Pass
				-10	3.85	-18.210	-0.0259	-2.5 to 2.5	Pass
				0	3.85	-25.620	-0.0364	-2.5 to 2.5	Pass
				10	3.85	-31.357	-0.0445	-2.5 to 2.5	Pass
				30	3.85	-37.107	-0.0527	-2.5 to 2.5	Pass
				40	3.85	-43.559	-0.0619	-2.5 to 2.5	Pass
				50	3.85	-3.905	-0.0055	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-7.954	-0.0112	-2.5 to 2.5	Pass
					3.85	-11.859	-0.0168	-2.5 to 2.5	Pass
					4.43	-10.986	-0.0155	-2.5 to 2.5	Pass
				-30	3.85	-7.267	-0.0103	-2.5 to 2.5	Pass
				-20	3.85	0.601	0.0008	-2.5 to 2.5	Pass
				-10	3.85	9.499	0.0134	-2.5 to 2.5	Pass
				0	3.85	18.969	0.0268	-2.5 to 2.5	Pass
				10	3.85	28.067	0.0397	-2.5 to 2.5	Pass
				30	3.85	36.635	0.0518	-2.5 to 2.5	Pass
				40	3.85	44.861	0.0634	-2.5 to 2.5	Pass
				50	3.85	7.753	0.0110	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-14.849	-0.0209	-2.5 to 2.5	Pass
					3.85	-19.798	-0.0278	-2.5 to 2.5	Pass
					4.43	-19.770	-0.0278	-2.5 to 2.5	Pass
				-30	3.85	-15.006	-0.0211	-2.5 to 2.5	Pass
				-20	3.85	-7.868	-0.0111	-2.5 to 2.5	Pass
				-10	3.85	0.544	0.0008	-2.5 to 2.5	Pass
				0	3.85	9.441	0.0133	-2.5 to 2.5	Pass
				10	3.85	17.595	0.0247	-2.5 to 2.5	Pass
				30	3.85	26.207	0.0369	-2.5 to 2.5	Pass
				40	3.85	33.617	0.0473	-2.5 to 2.5	Pass
				50	3.85	41.127	0.0578	-2.5 to 2.5	Pass

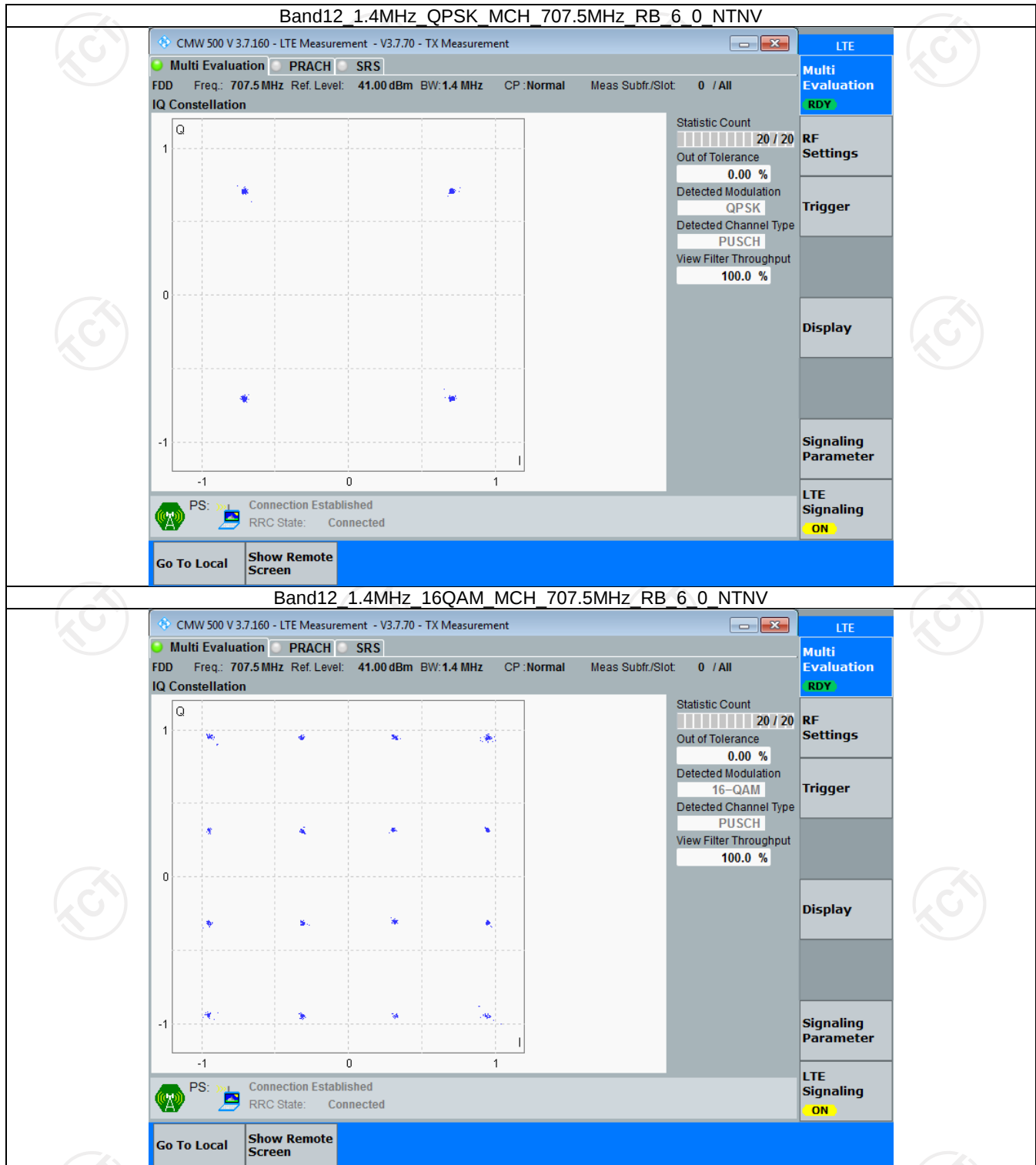
3. Modulation Characteristics

3.1 B12_1.4MHz

3.1.1 Test Result

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 Test Graph





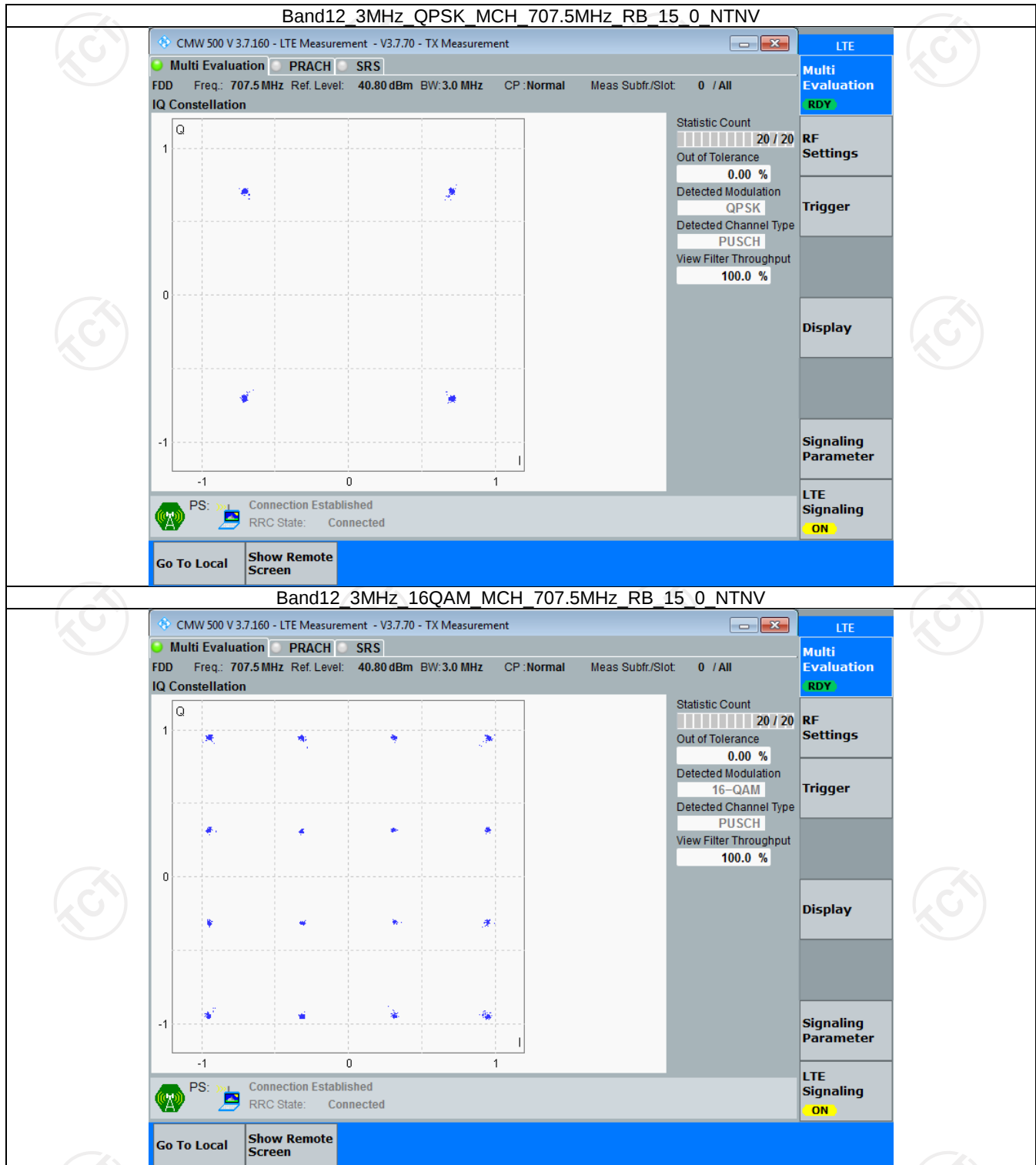
3.2 B12_3MHz

3.2.1 Test Result

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



3.2.2 Test Graph

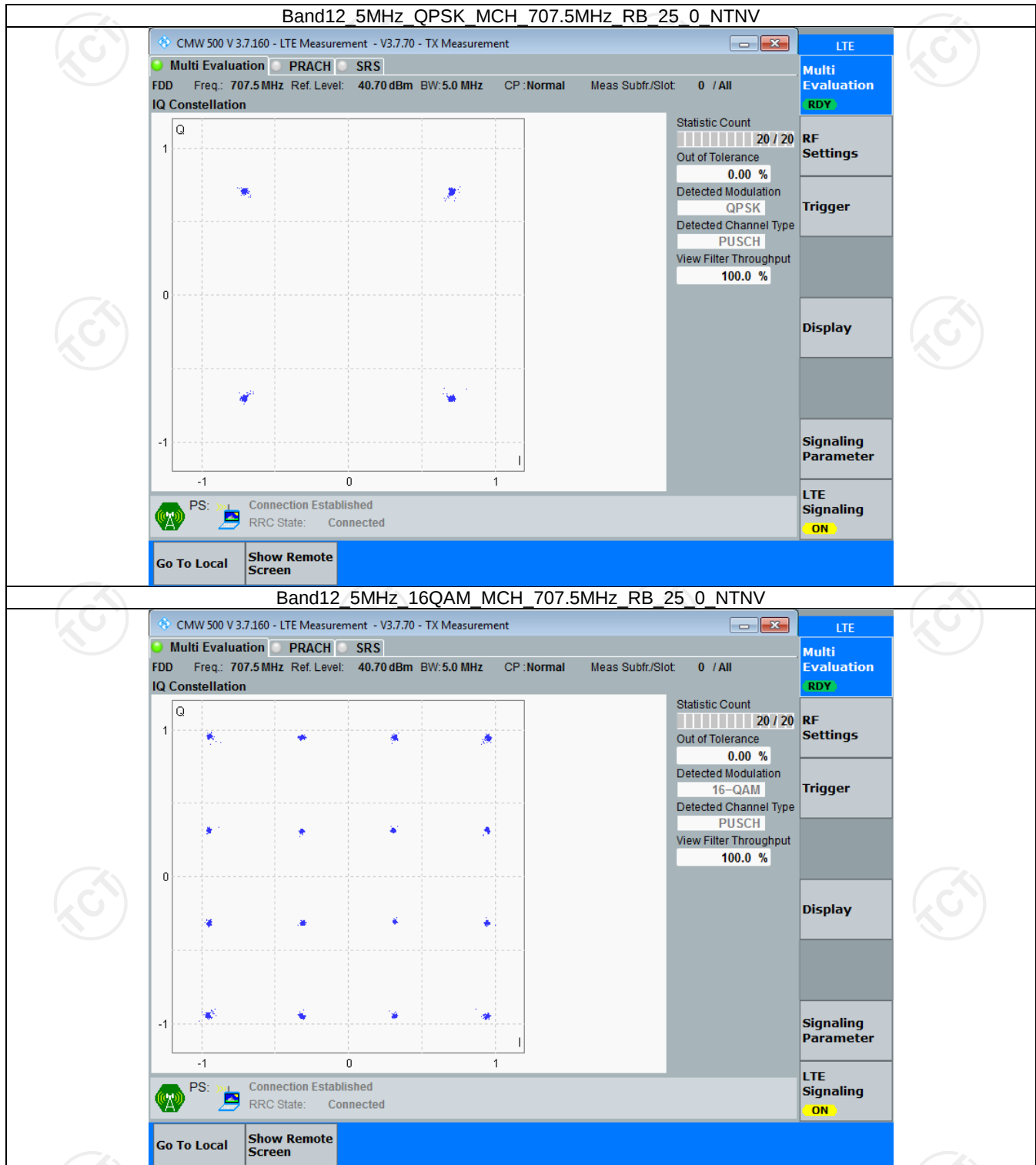


3.3 B12_5MHz

3.3.1 Test Result

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

3.3.2 Test Graph

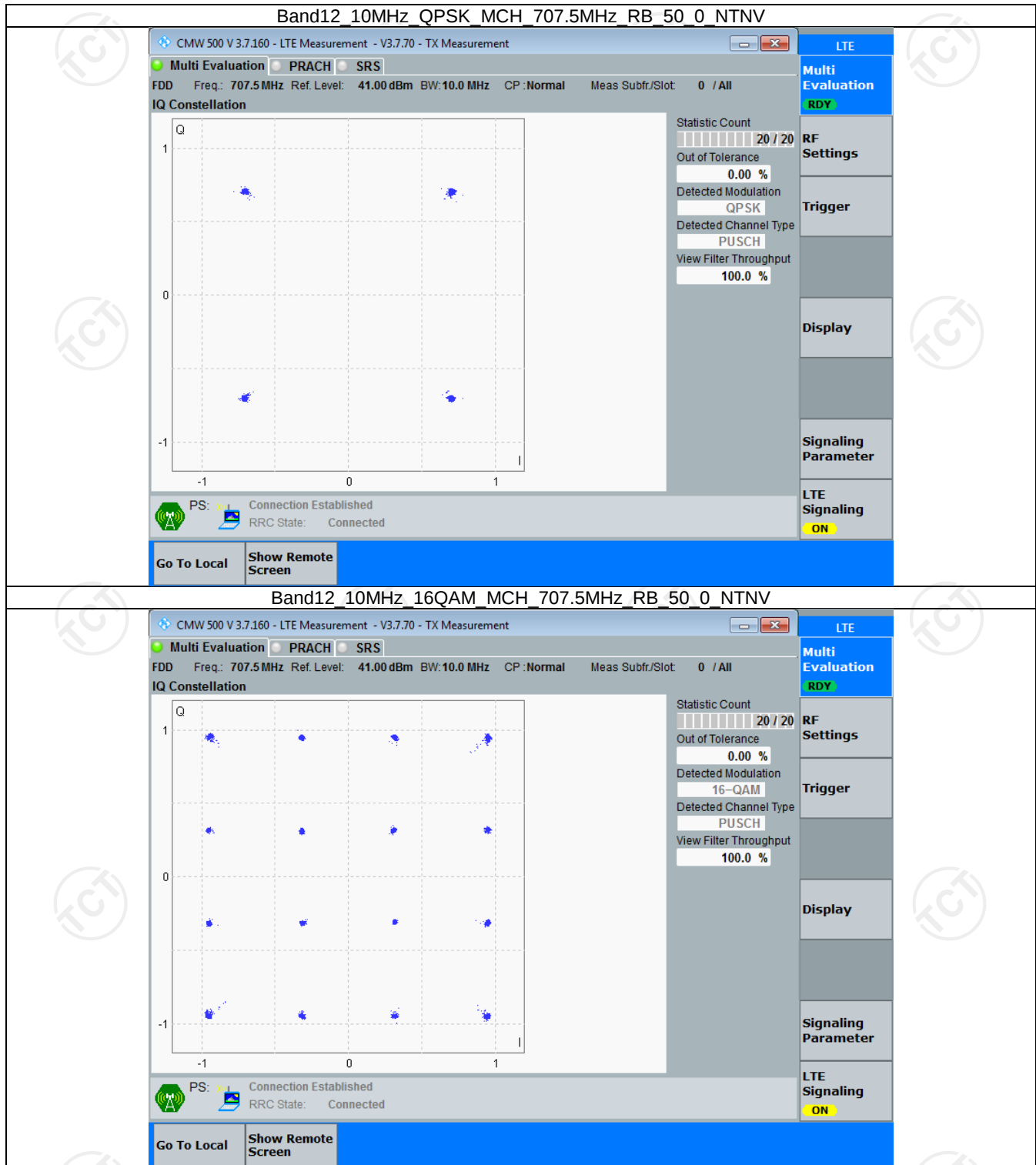


3.4 B12_10MHz

3.4.1 Test Result

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

3.4.2 Test Graph



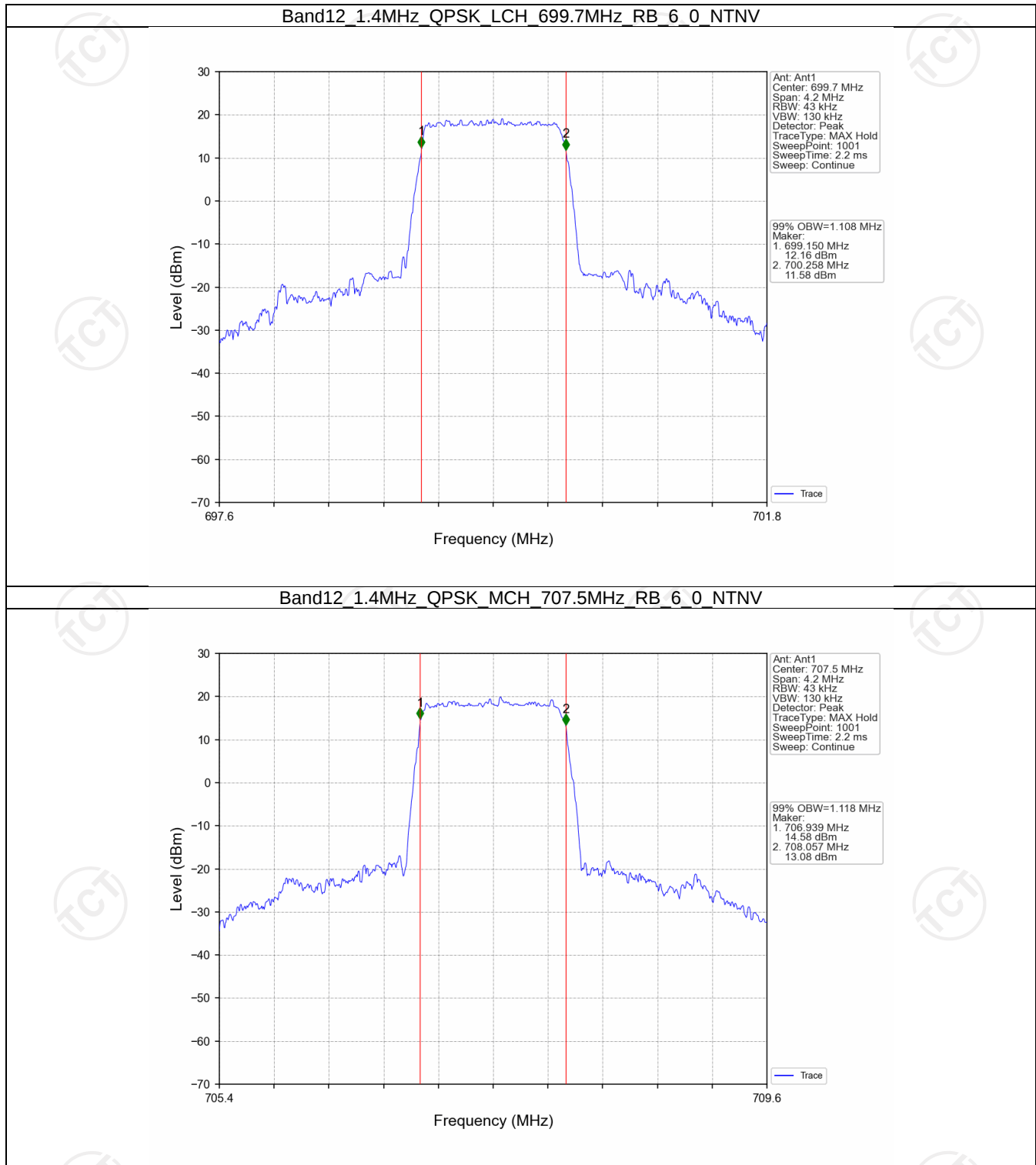
4. 99% & 26dB Bandwidth

4.1 Band12_OBW

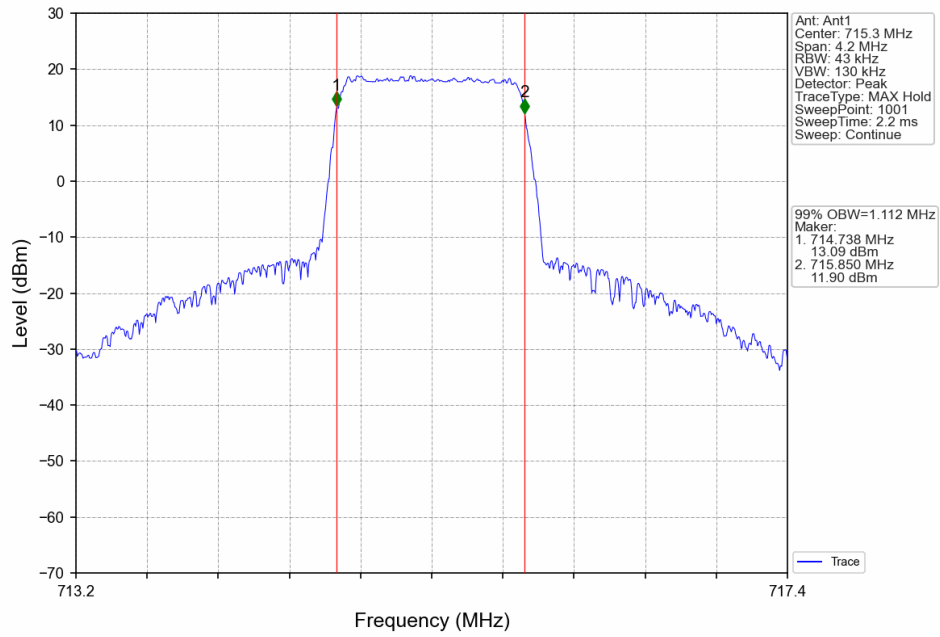
4.1.1 Test Result

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	1.108	Pass
		707.5	6	0	1.118	Pass
		715.3	6	0	1.112	Pass
	16QAM	699.7	6	0	1.109	Pass
		707.5	6	0	1.116	Pass
		715.3	6	0	1.117	Pass
3	QPSK	700.5	15	0	2.765	Pass
		707.5	15	0	2.756	Pass
		714.5	15	0	2.753	Pass
	16QAM	700.5	15	0	2.772	Pass
		707.5	15	0	2.771	Pass
		714.5	15	0	2.773	Pass
5	QPSK	701.5	25	0	4.548	Pass
		707.5	25	0	4.560	Pass
		713.5	25	0	4.545	Pass
	16QAM	701.5	25	0	4.535	Pass
		707.5	25	0	4.578	Pass
		713.5	25	0	4.579	Pass
10	QPSK	704	50	0	9.059	Pass
		707.5	50	0	9.051	Pass
		711	50	0	9.069	Pass
	16QAM	704	50	0	9.063	Pass
		707.5	50	0	9.057	Pass
		711	50	0	9.029	Pass

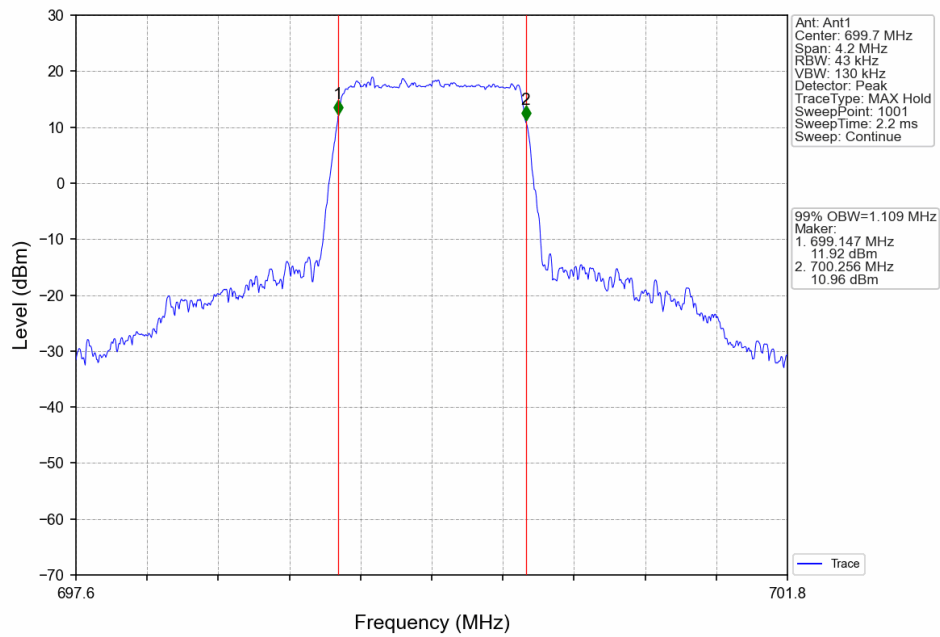
4.1.2 Test Graph



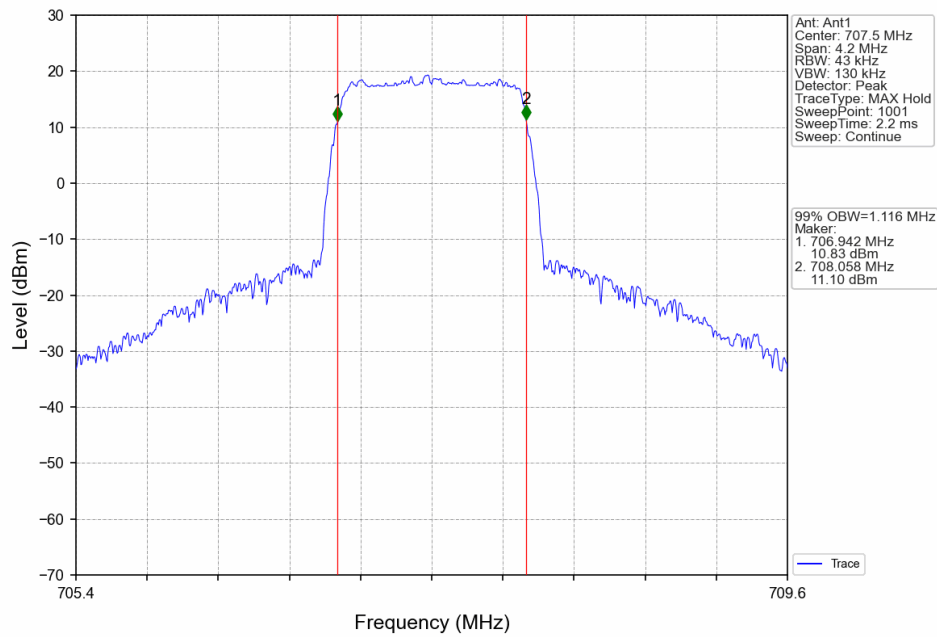
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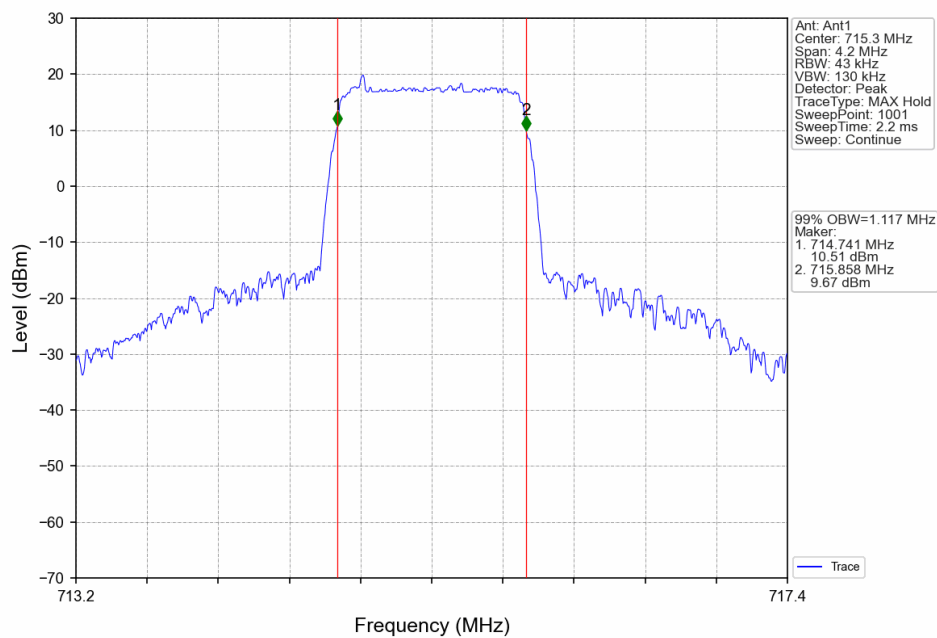
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



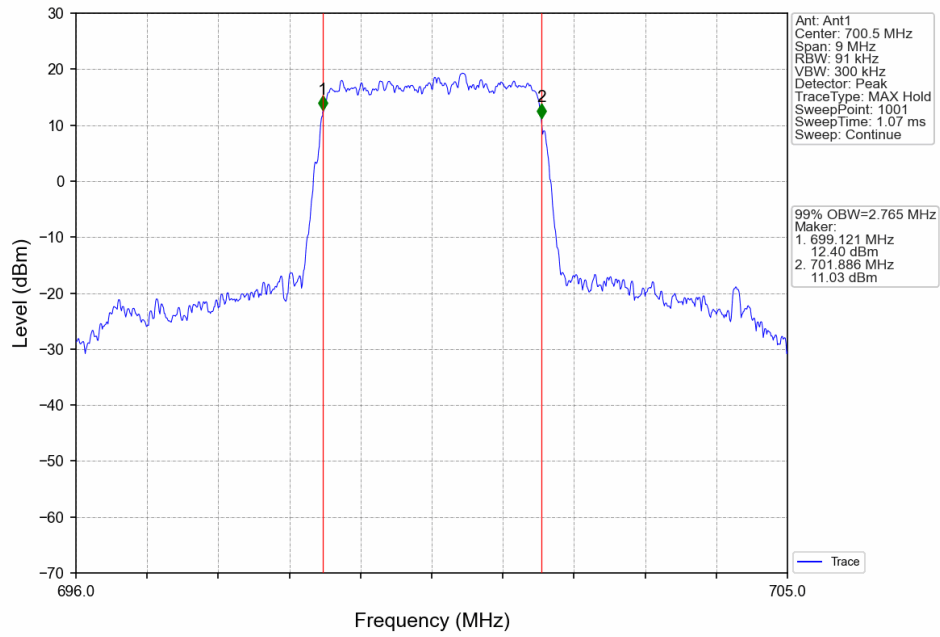
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



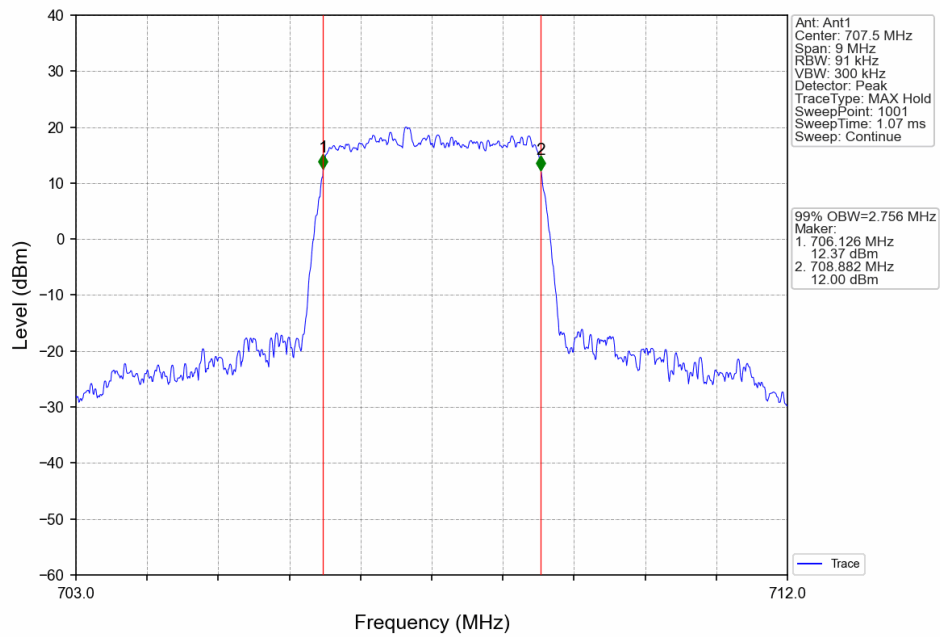
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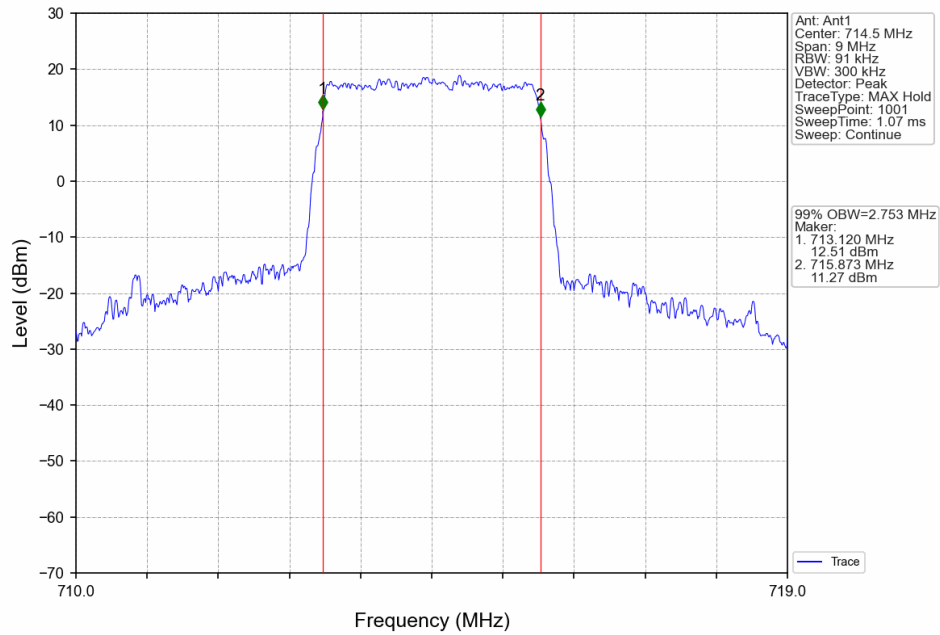
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



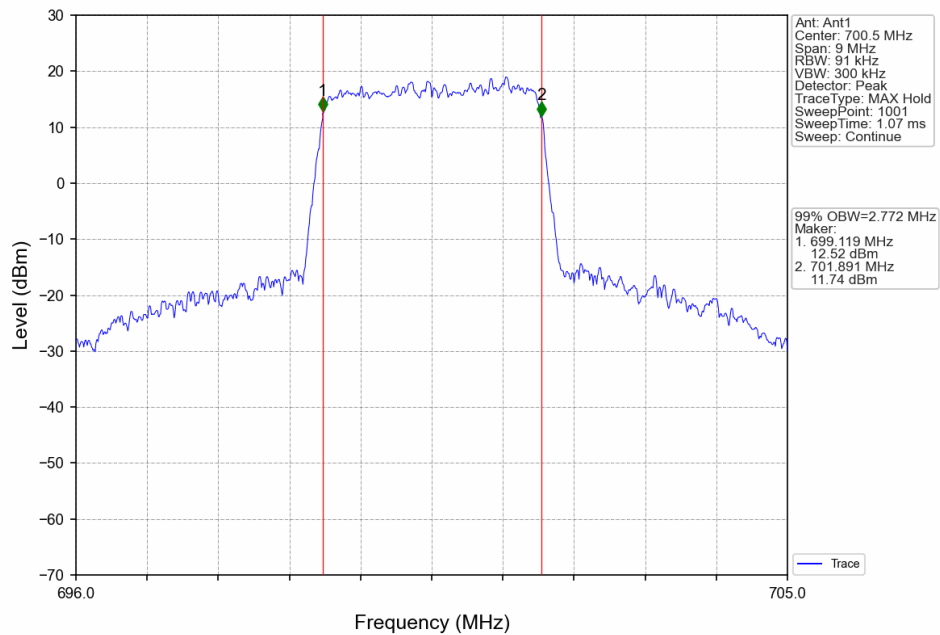
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



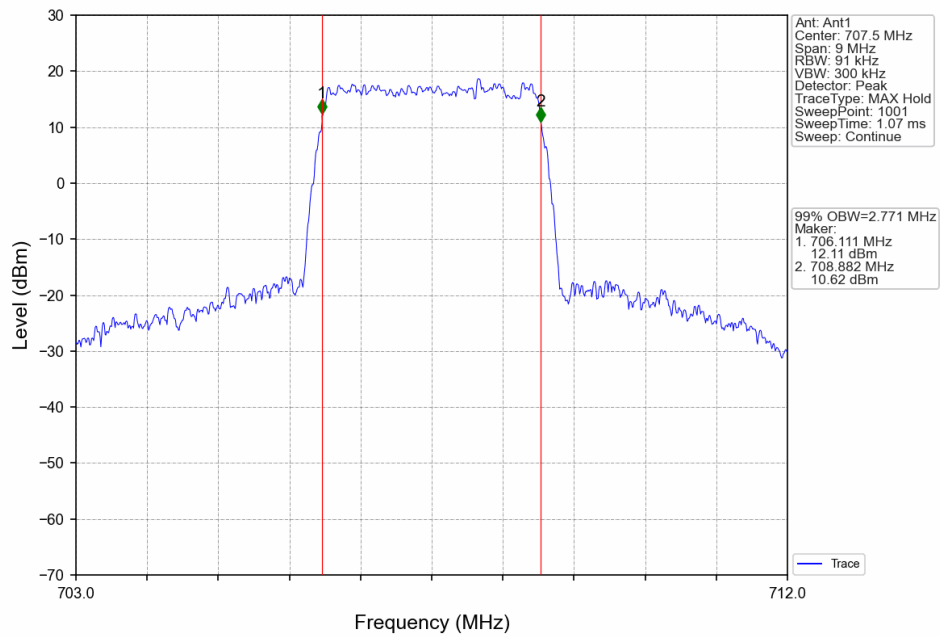
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



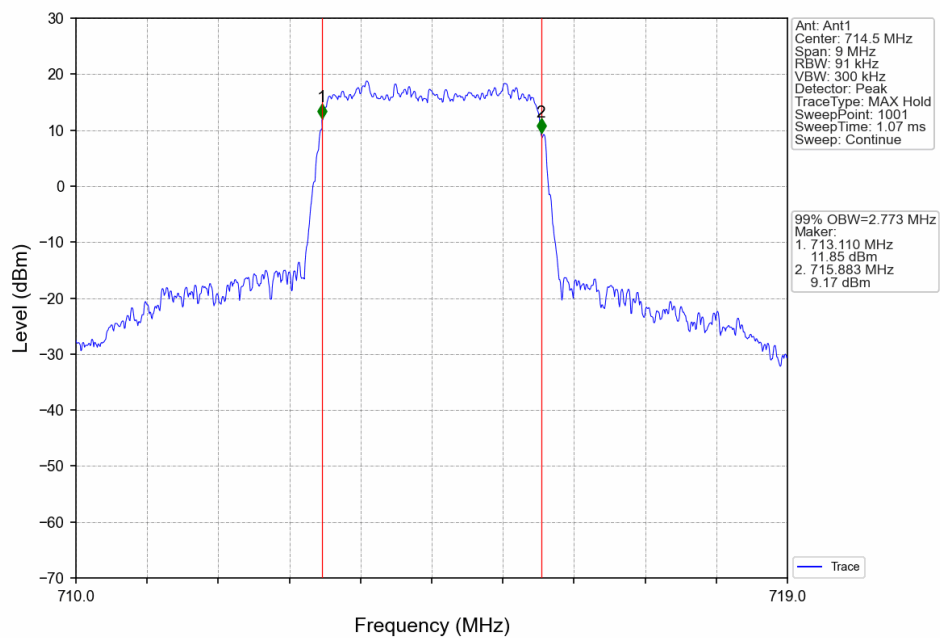
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



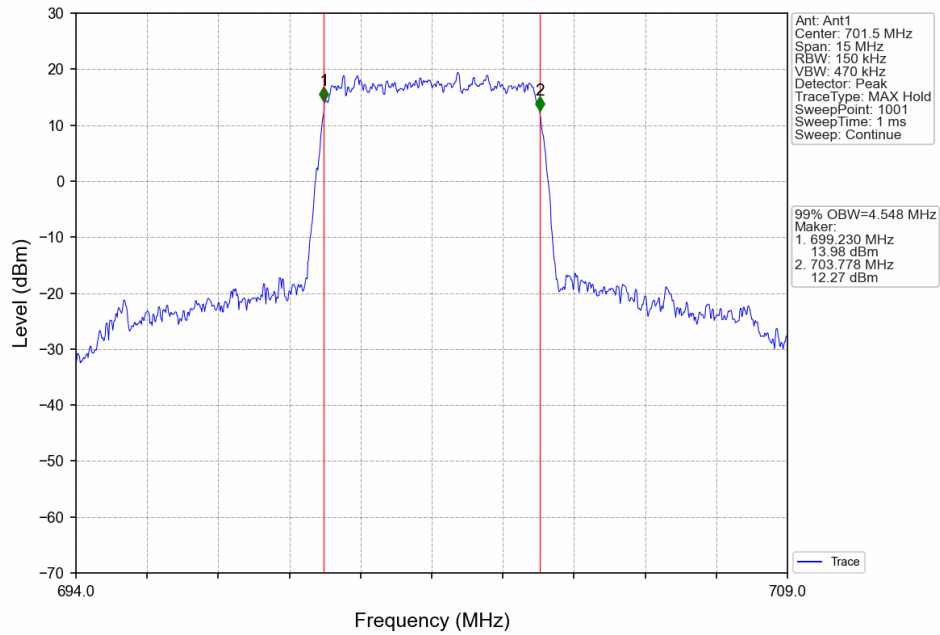
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



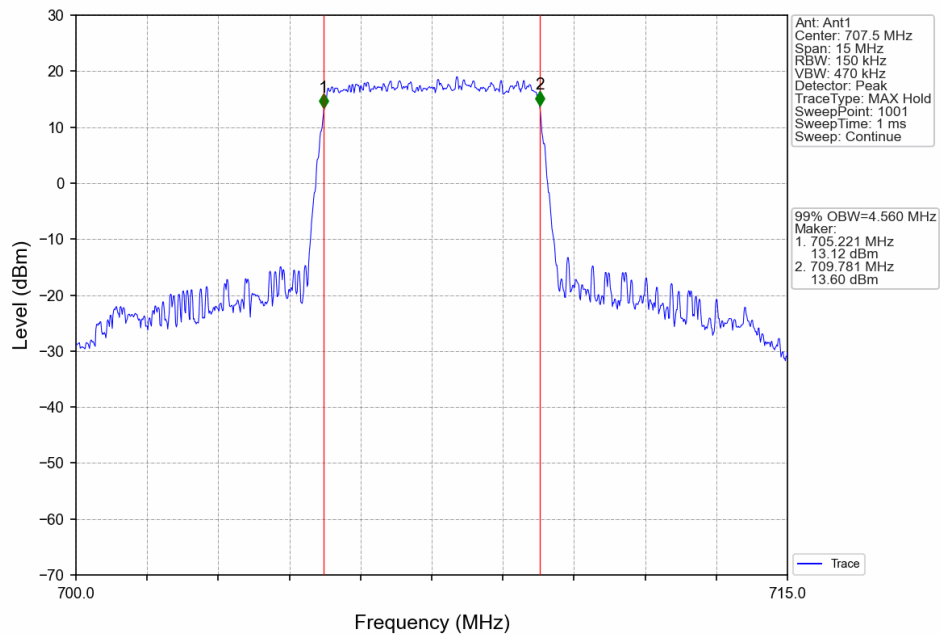
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



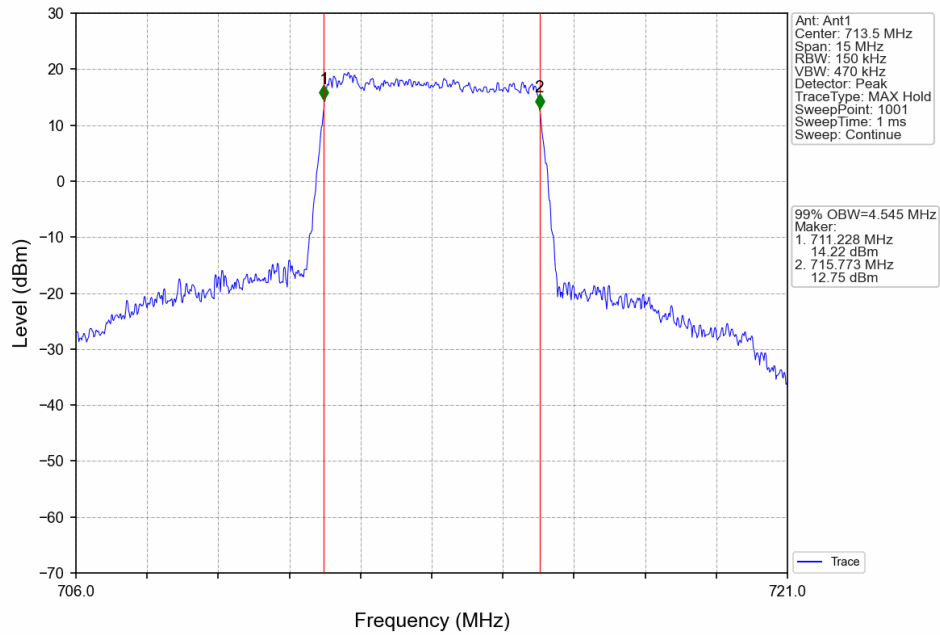
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



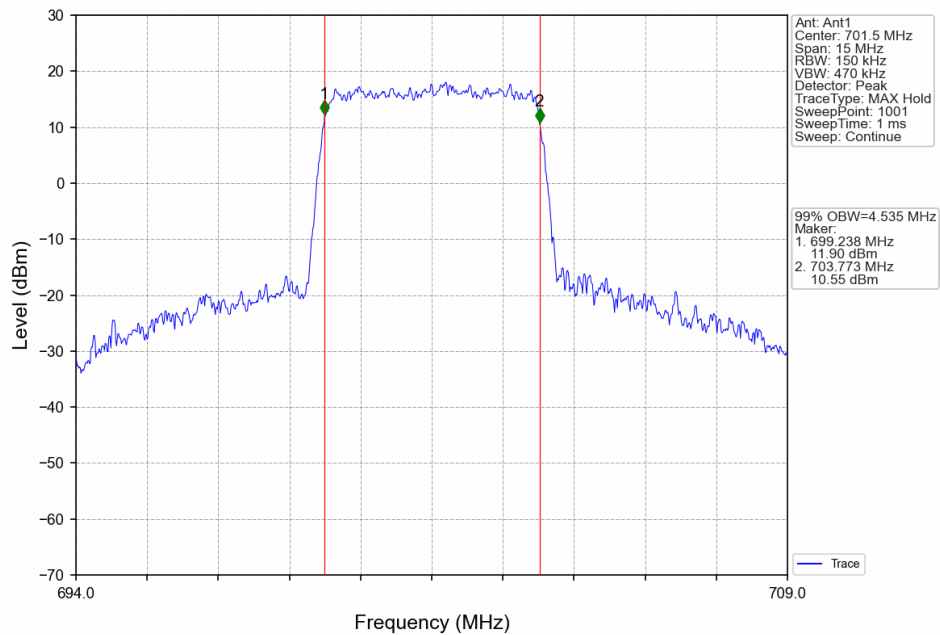
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



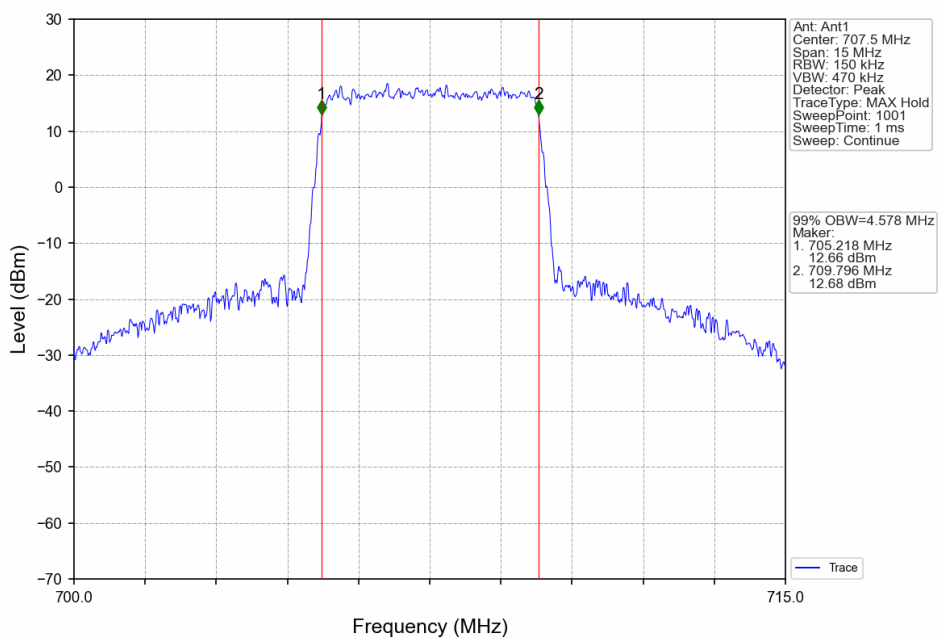
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



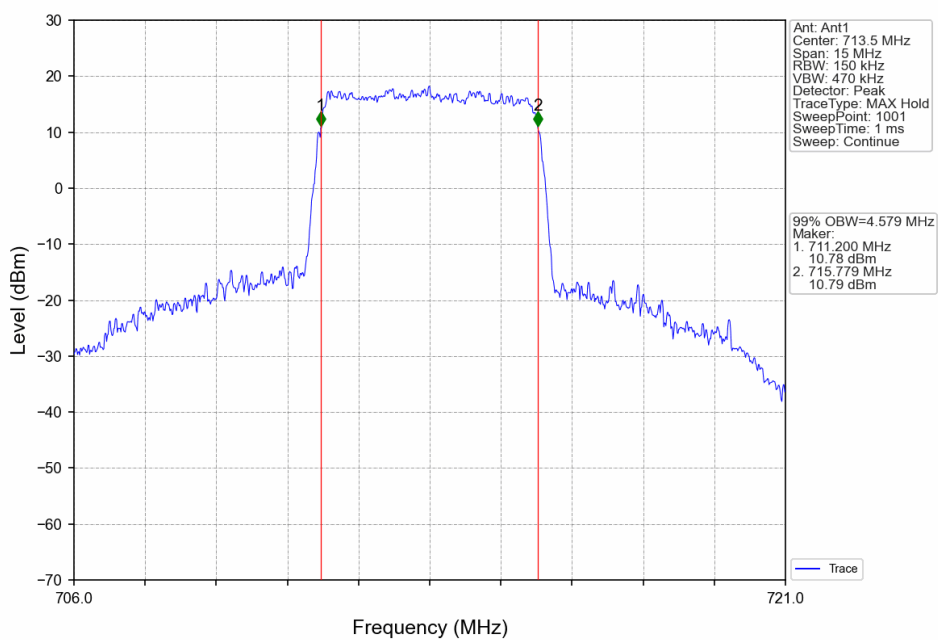
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



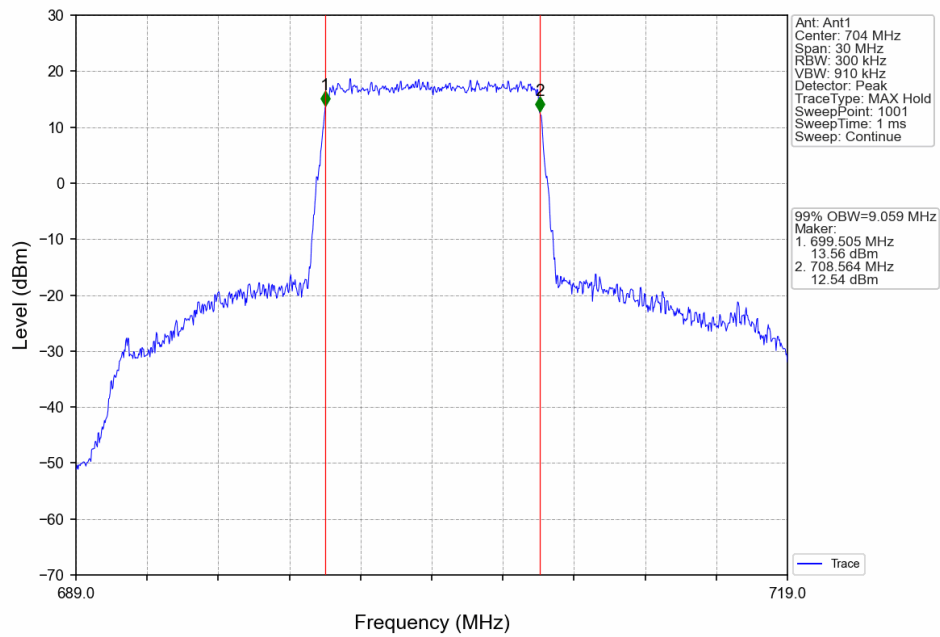
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



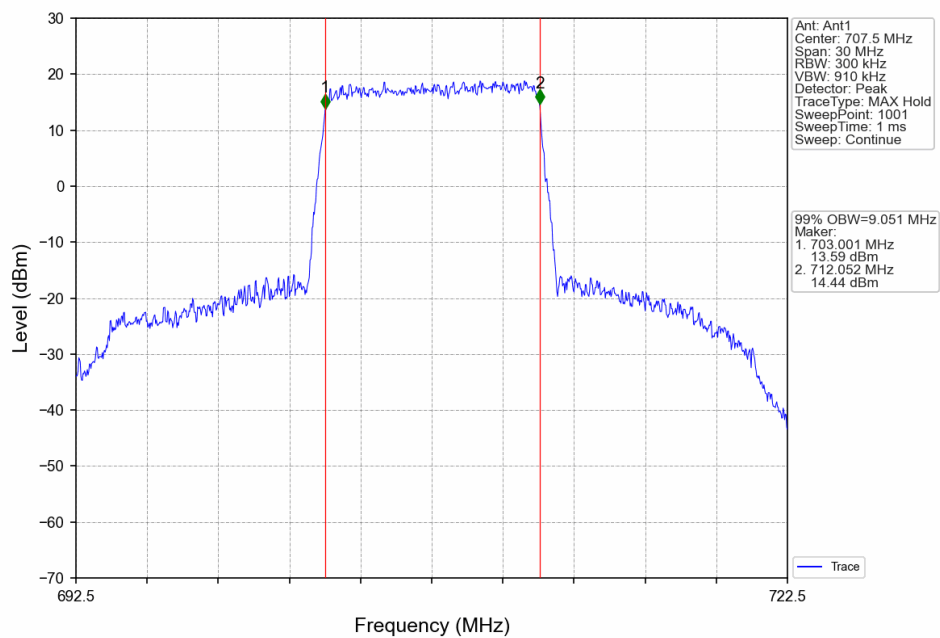
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



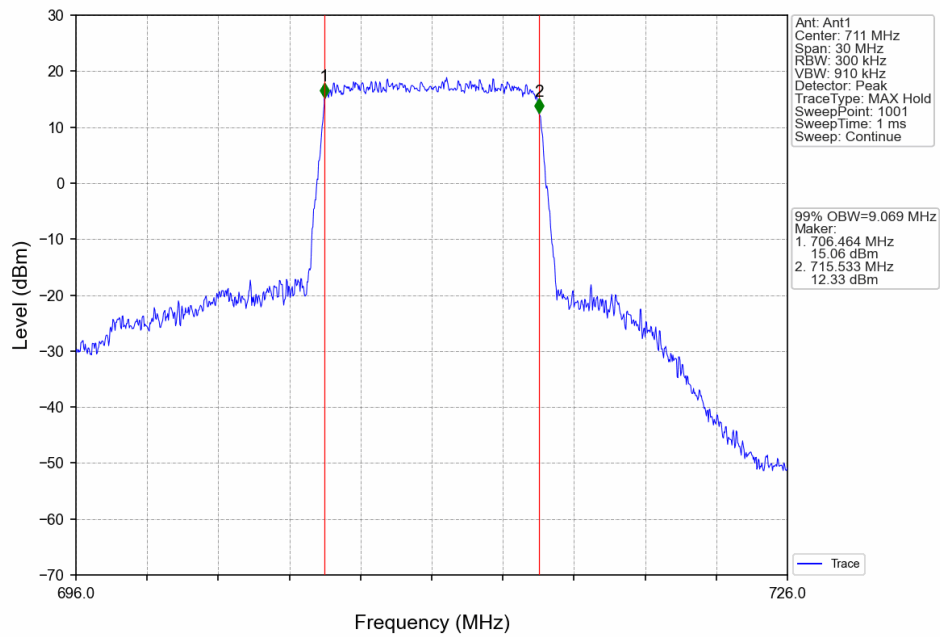
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



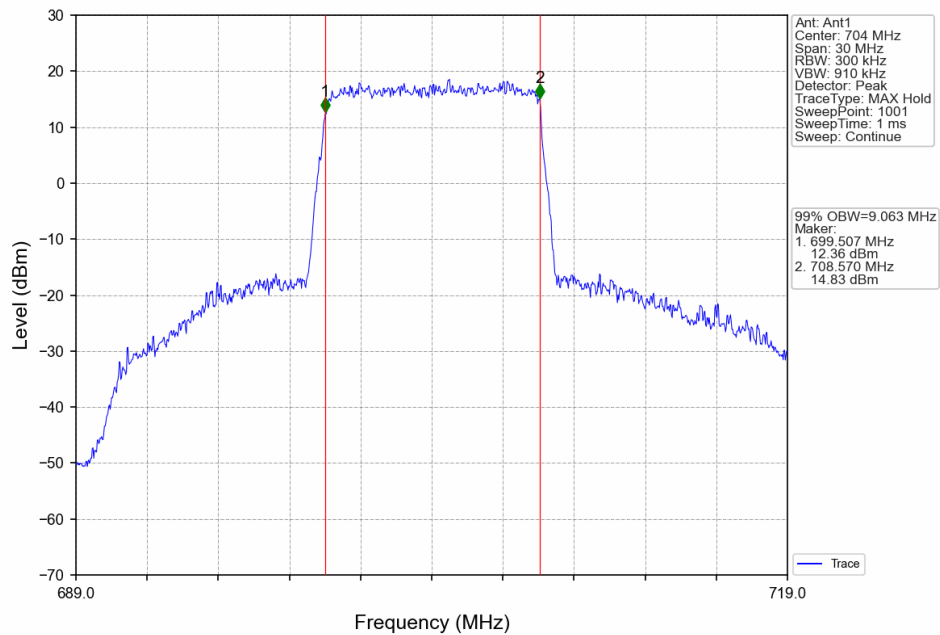
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



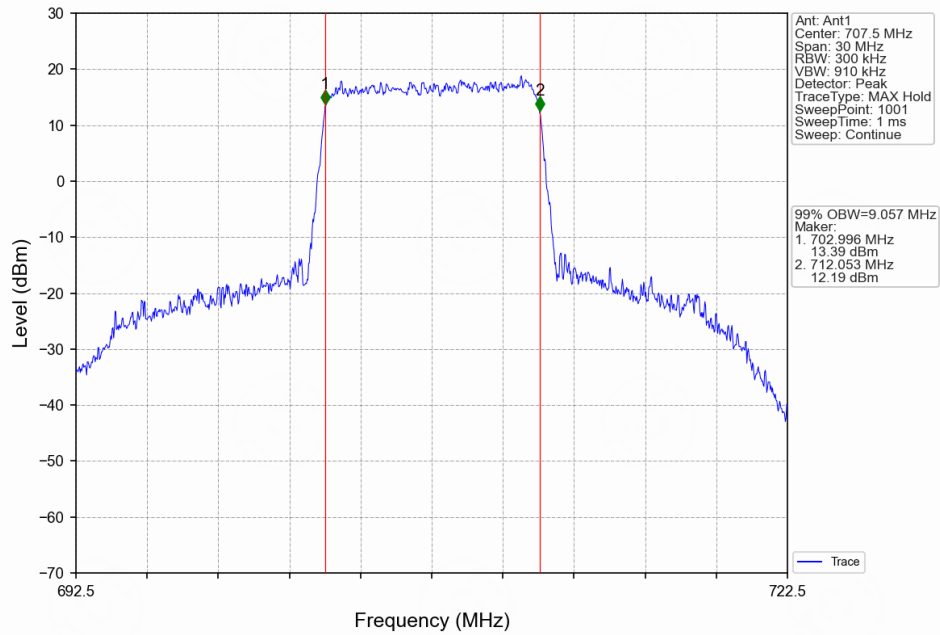
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



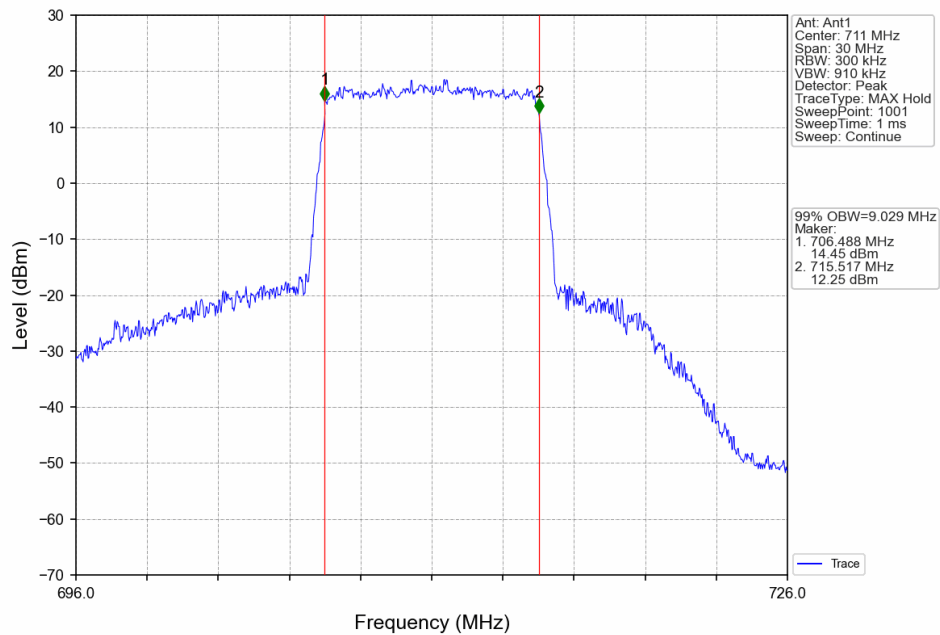
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV

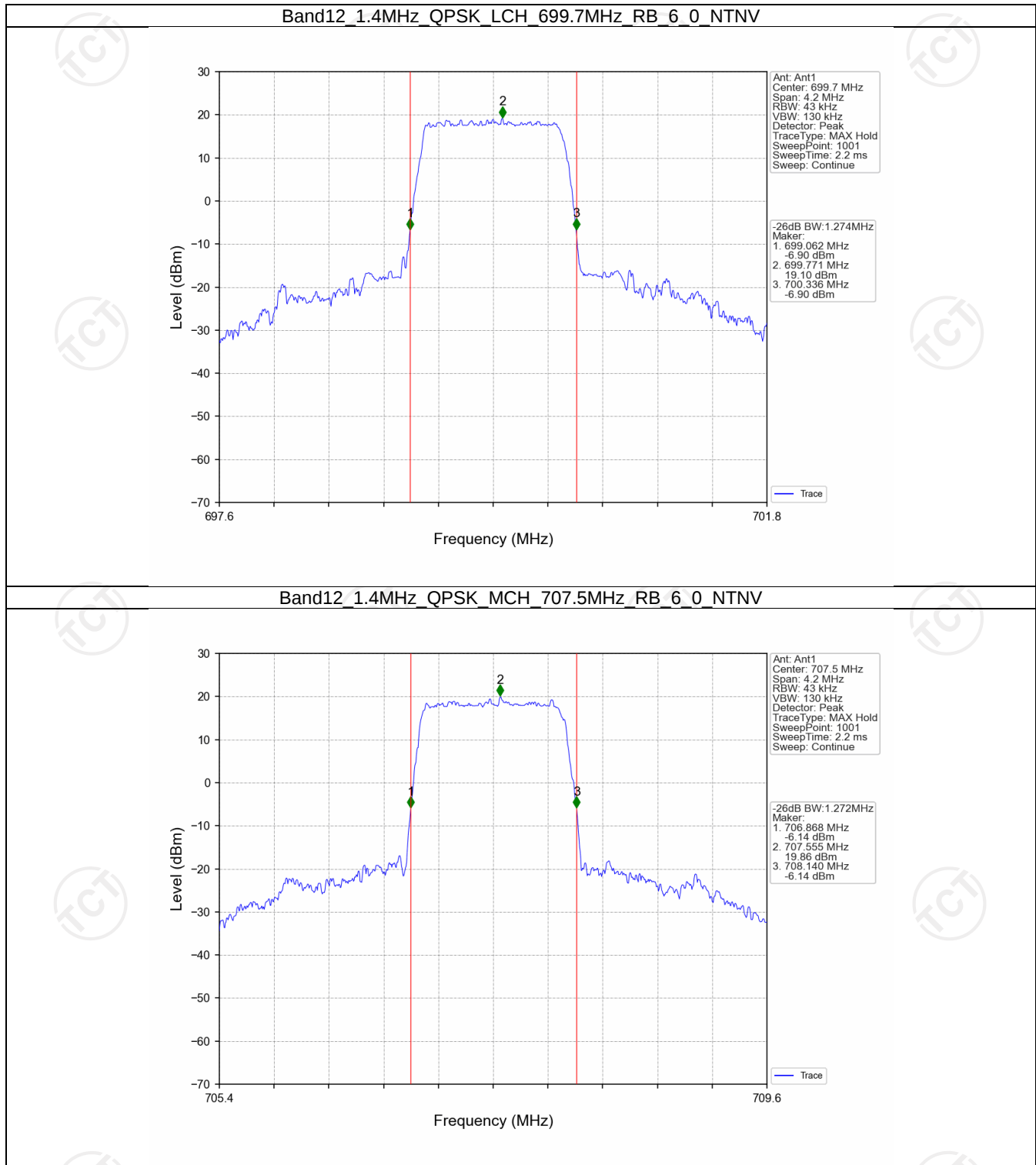


4.2 Band12_XDB

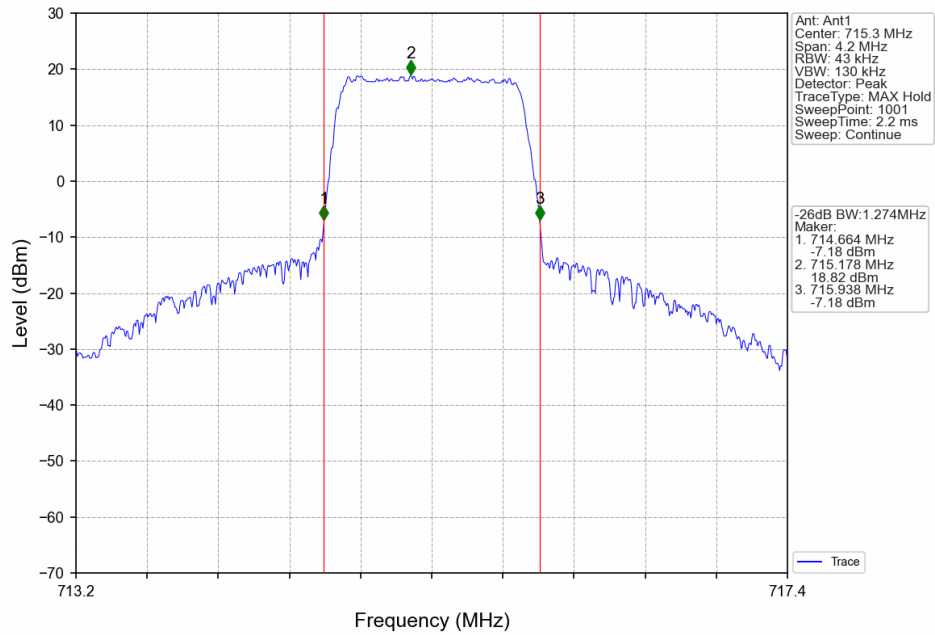
4.2.1 Test Result

Band: 12 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	699.7	6	0	1.274	Pass
		707.5	6	0	1.272	Pass
		715.3	6	0	1.274	Pass
	16QAM	699.7	6	0	1.268	Pass
		707.5	6	0	1.273	Pass
		715.3	6	0	1.267	Pass
3	QPSK	700.5	15	0	3.085	Pass
		707.5	15	0	3.089	Pass
		714.5	15	0	3.094	Pass
	16QAM	700.5	15	0	3.100	Pass
		707.5	15	0	3.123	Pass
		714.5	15	0	3.090	Pass
5	QPSK	701.5	25	0	5.028	Pass
		707.5	25	0	5.059	Pass
		713.5	25	0	5.023	Pass
	16QAM	701.5	25	0	5.026	Pass
		707.5	25	0	5.078	Pass
		713.5	25	0	5.049	Pass
10	QPSK	704	50	0	10.006	Pass
		707.5	50	0	10.088	Pass
		711	50	0	10.011	Pass
	16QAM	704	50	0	10.054	Pass
		707.5	50	0	10.052	Pass
		711	50	0	10.022	Pass

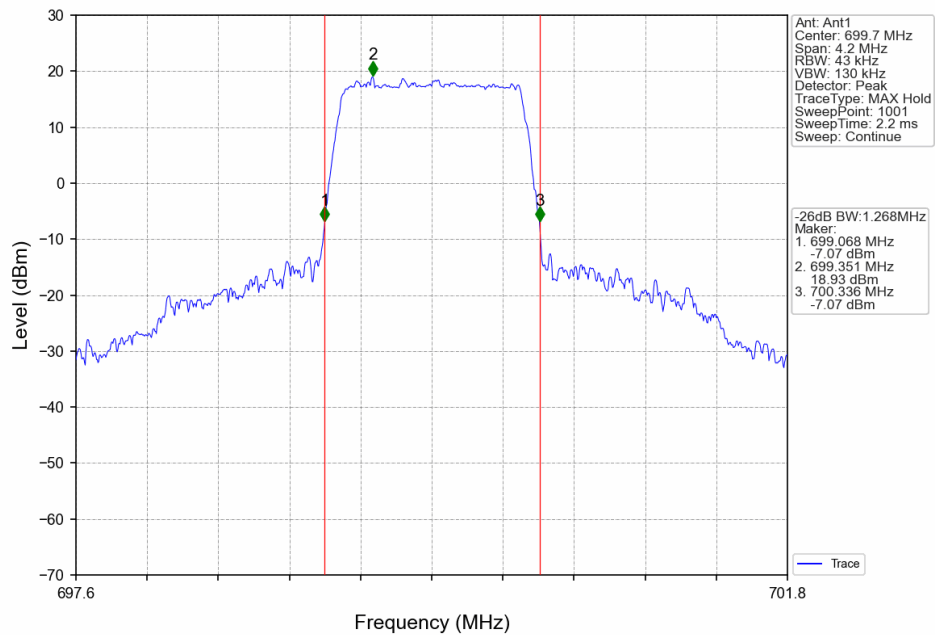
4.2.2 Test Graph



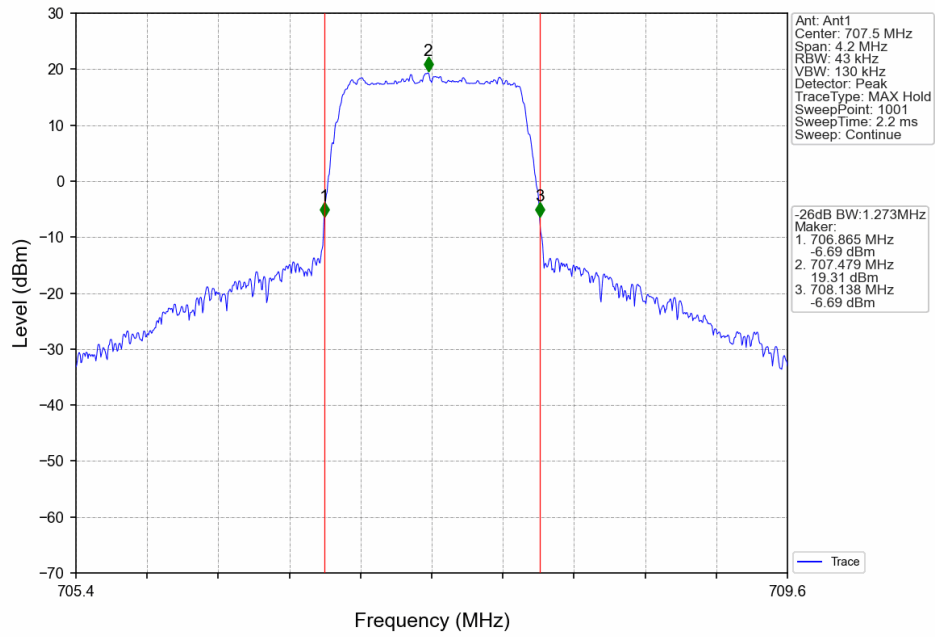
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



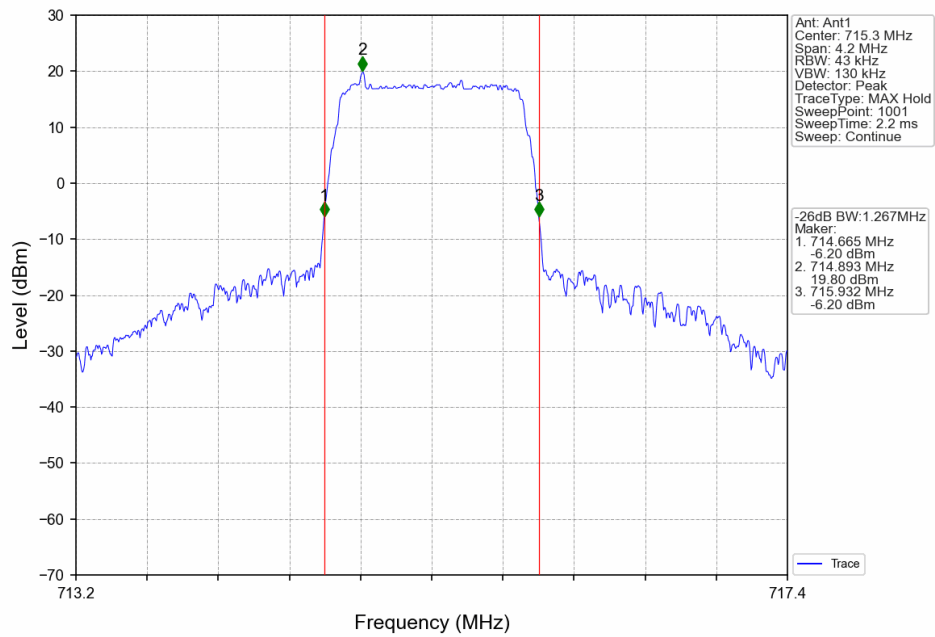
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



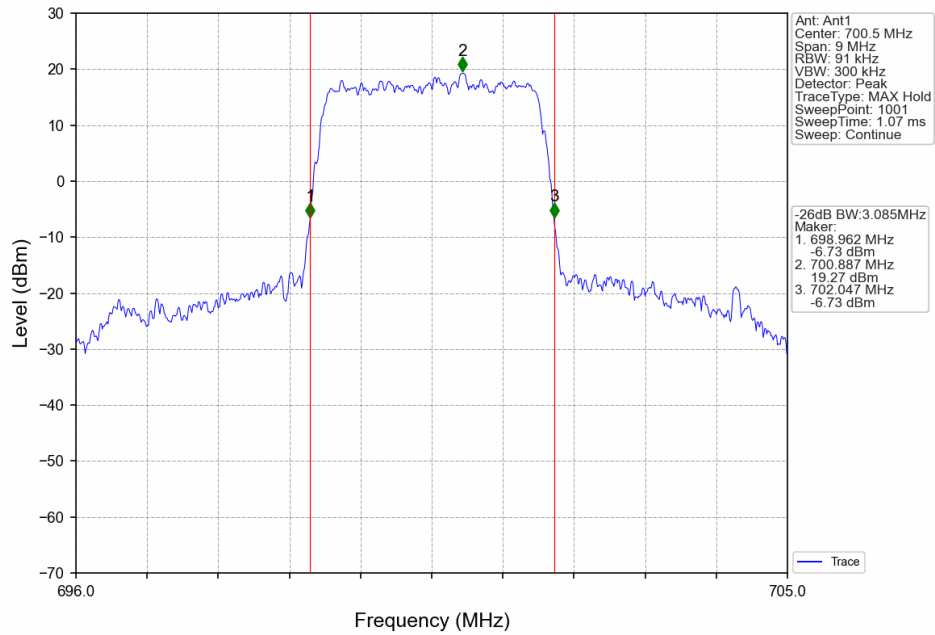
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



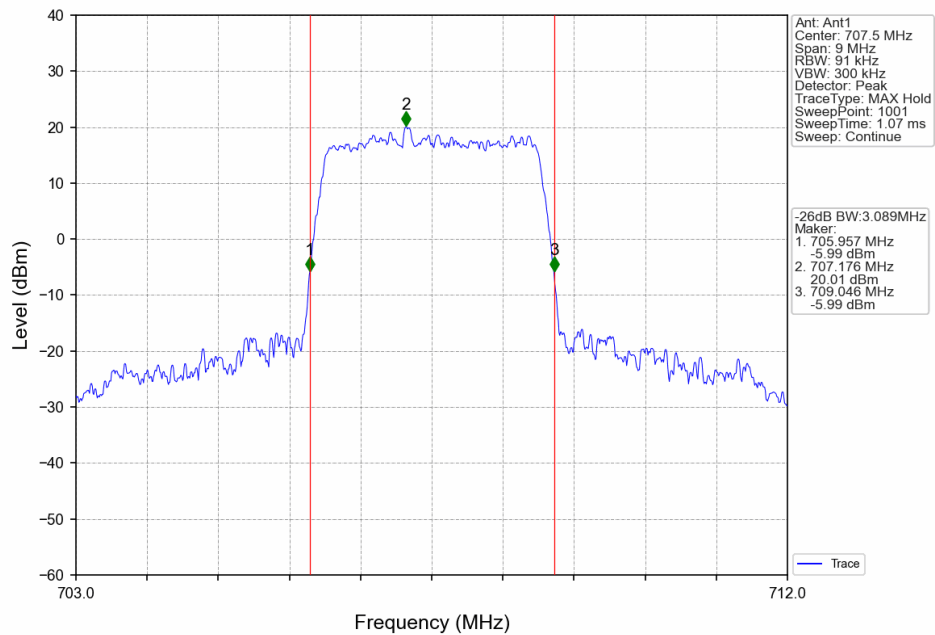
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



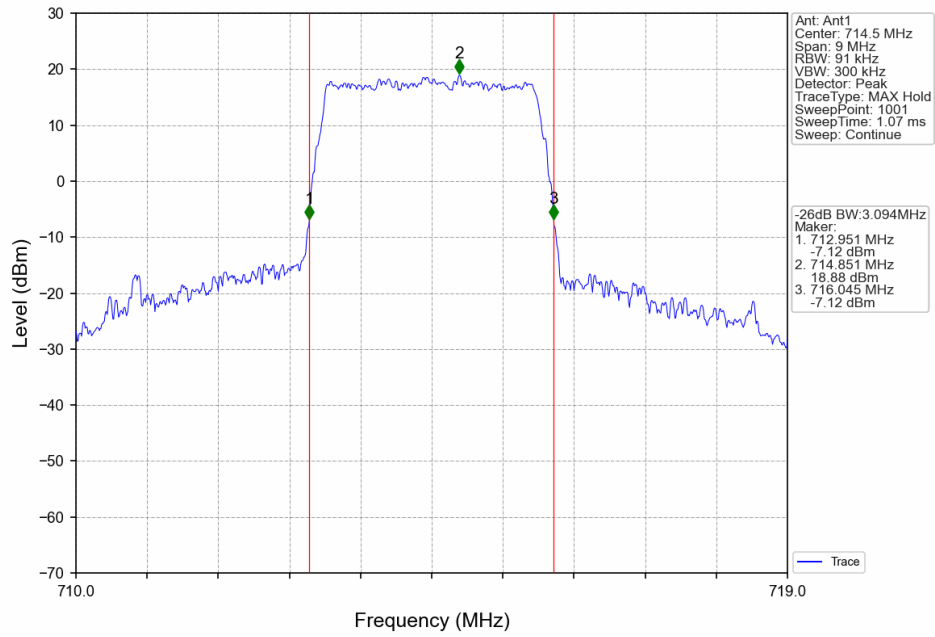
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



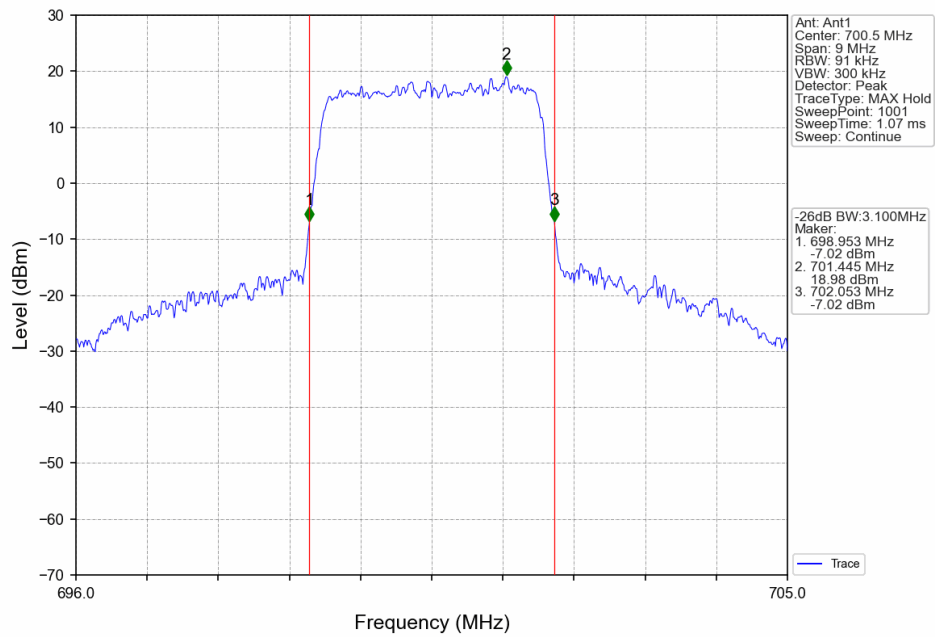
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



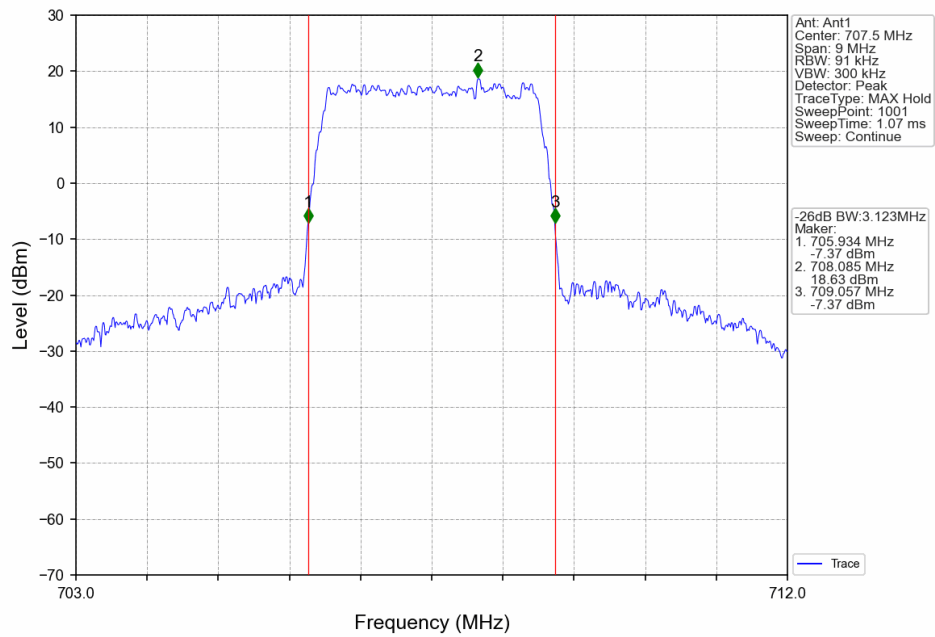
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



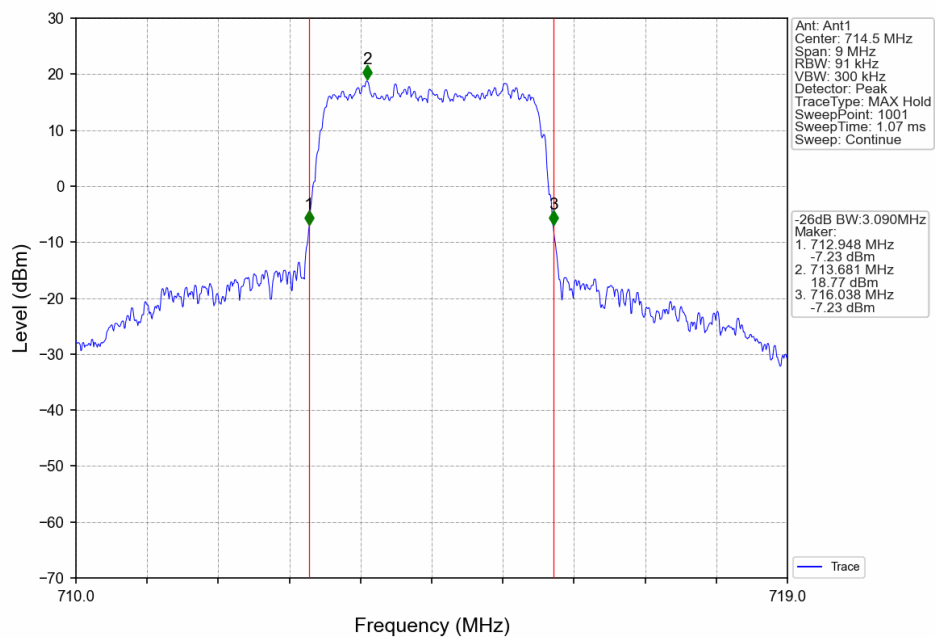
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



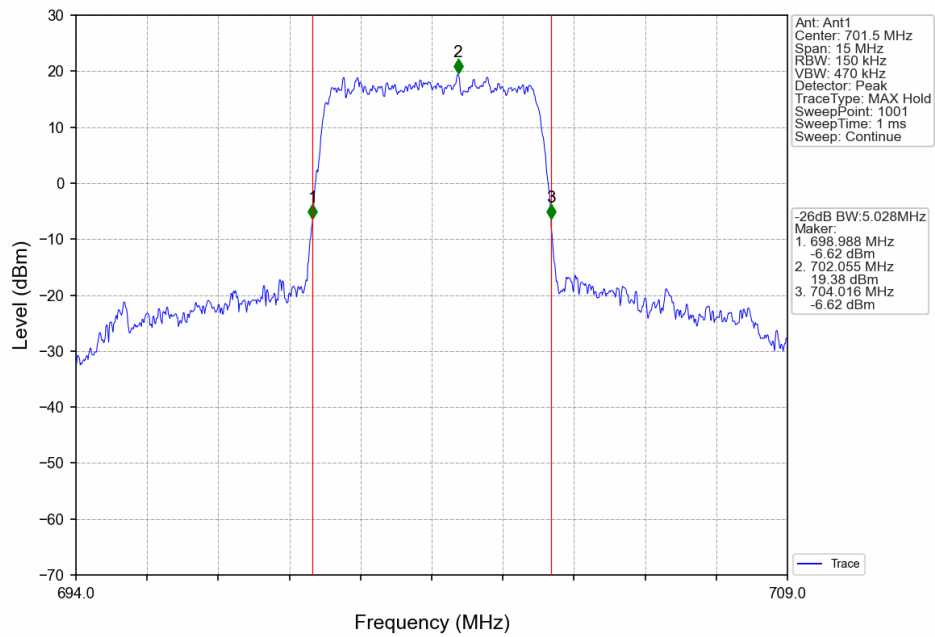
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



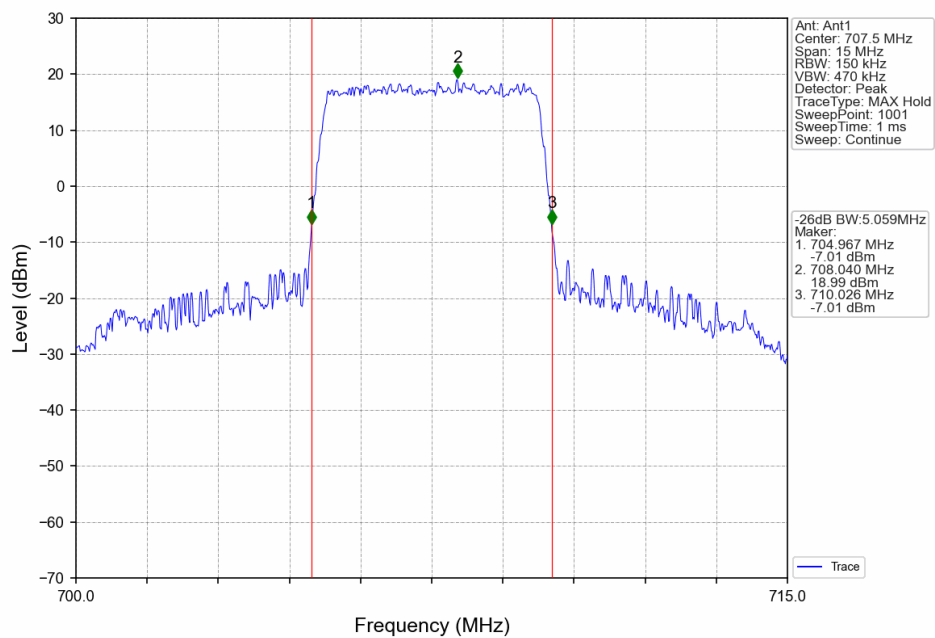
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



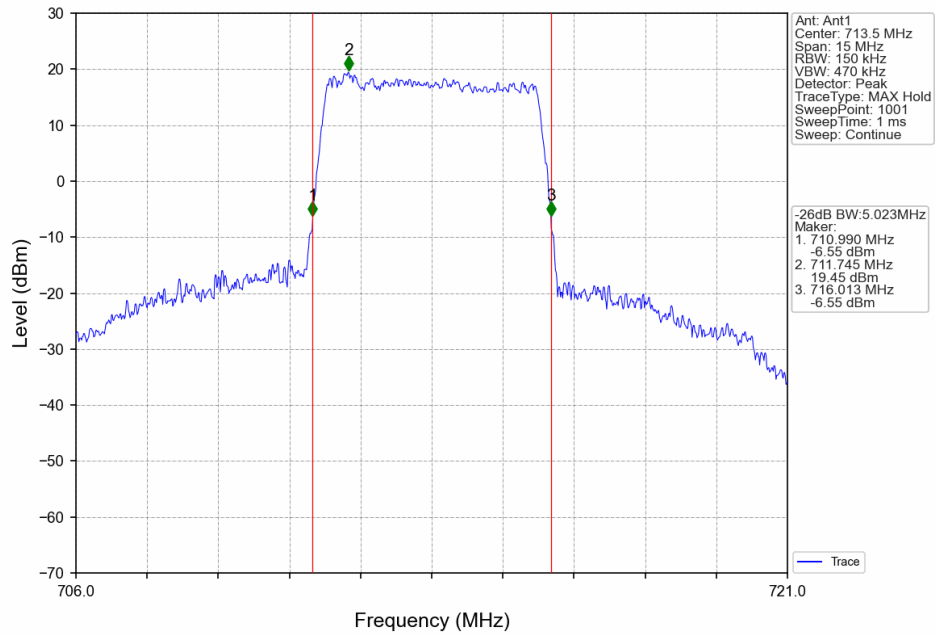
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



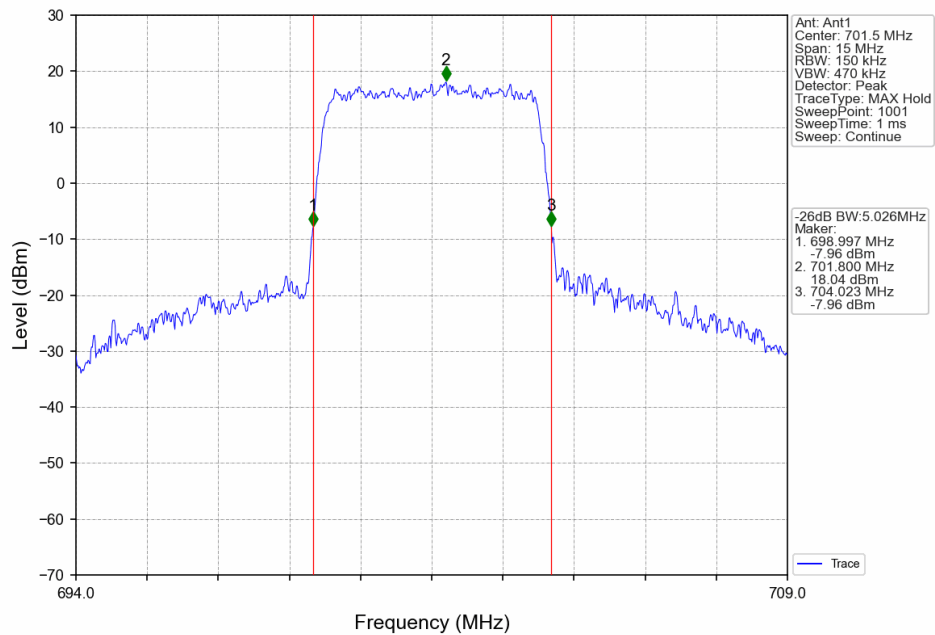
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



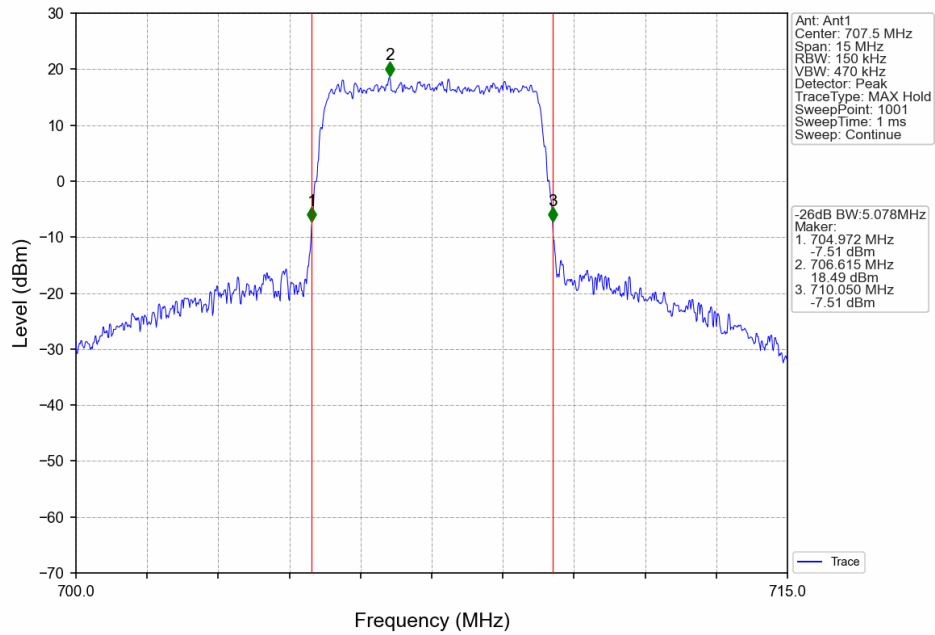
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



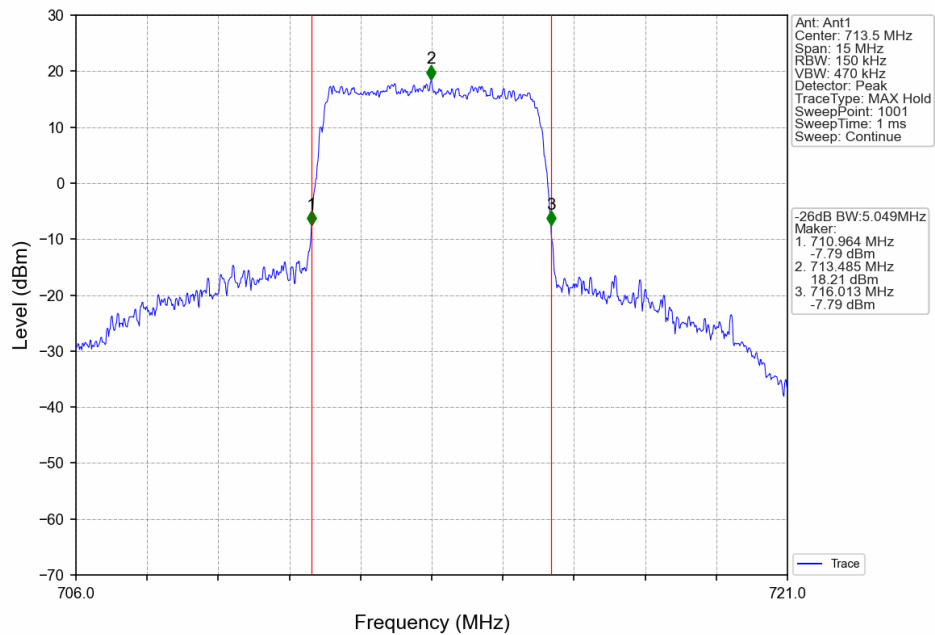
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



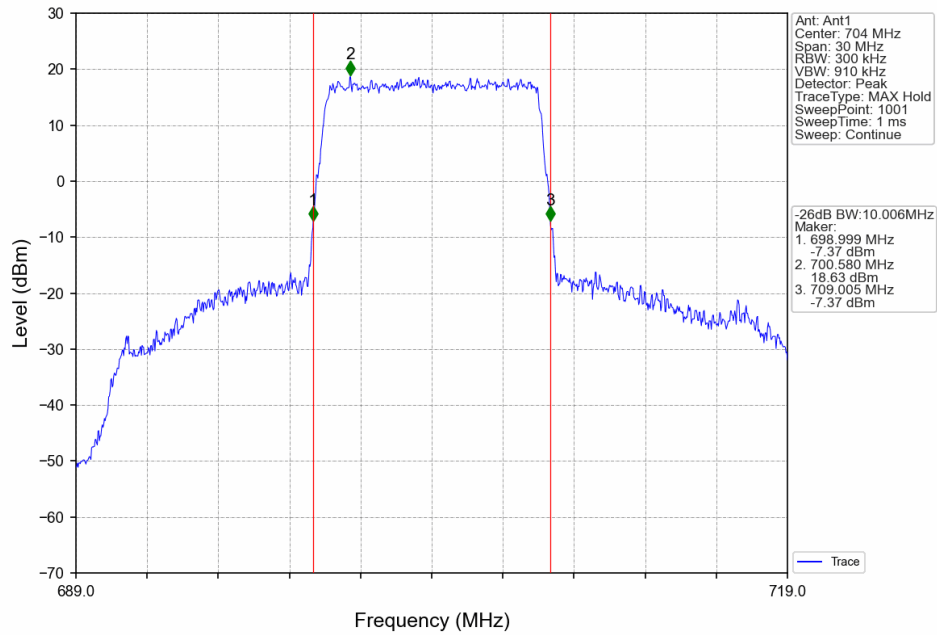
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



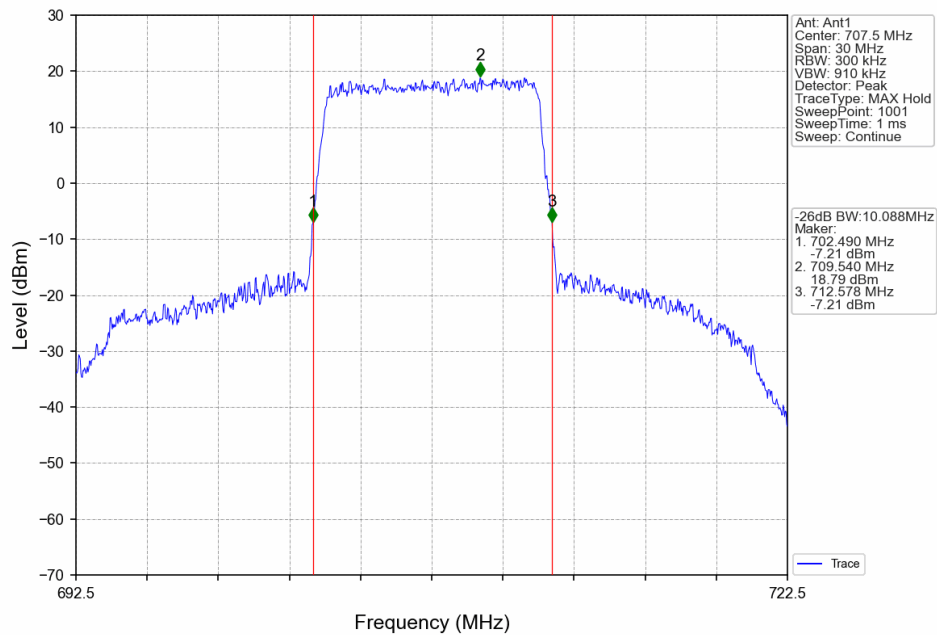
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



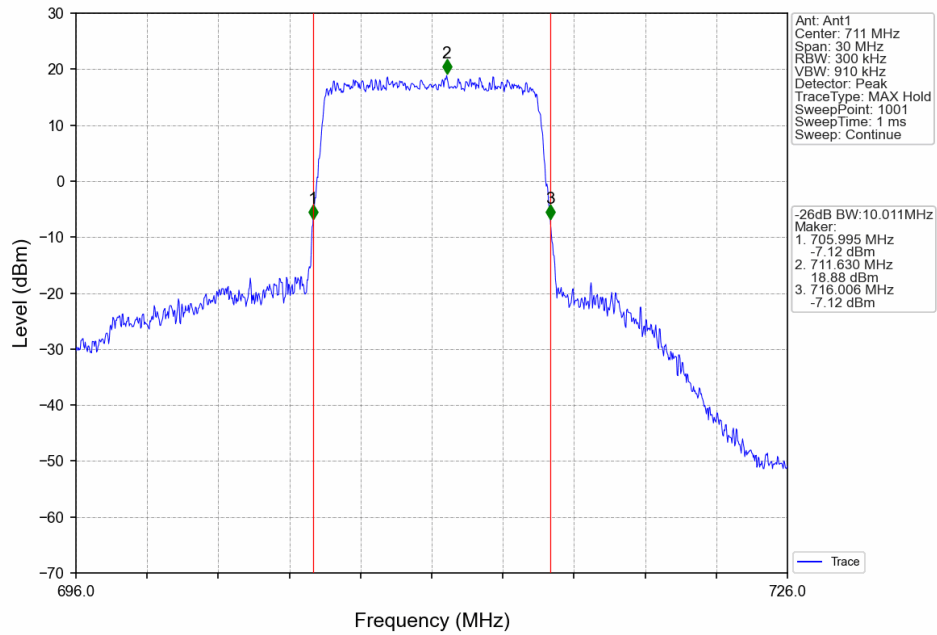
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



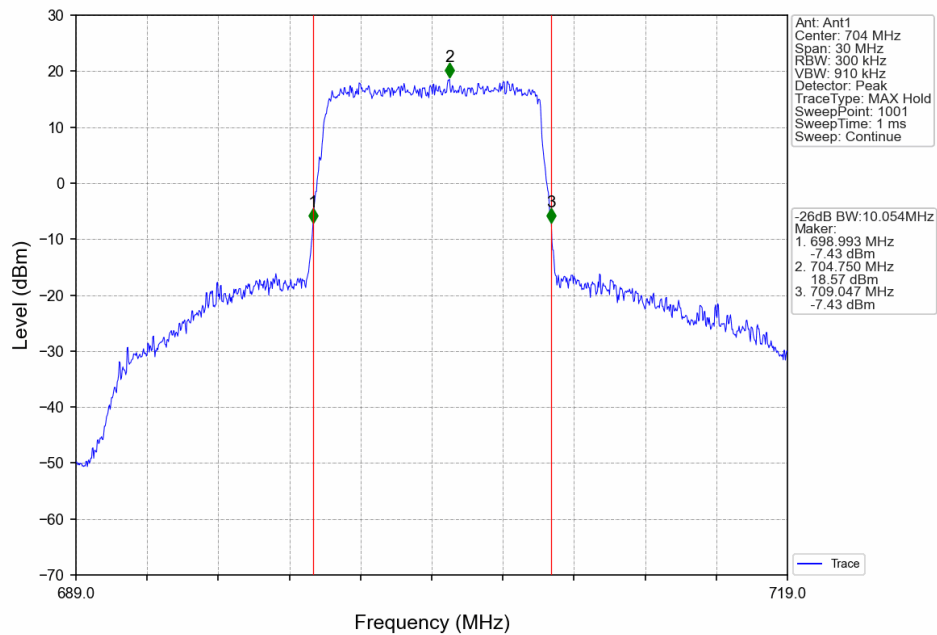
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



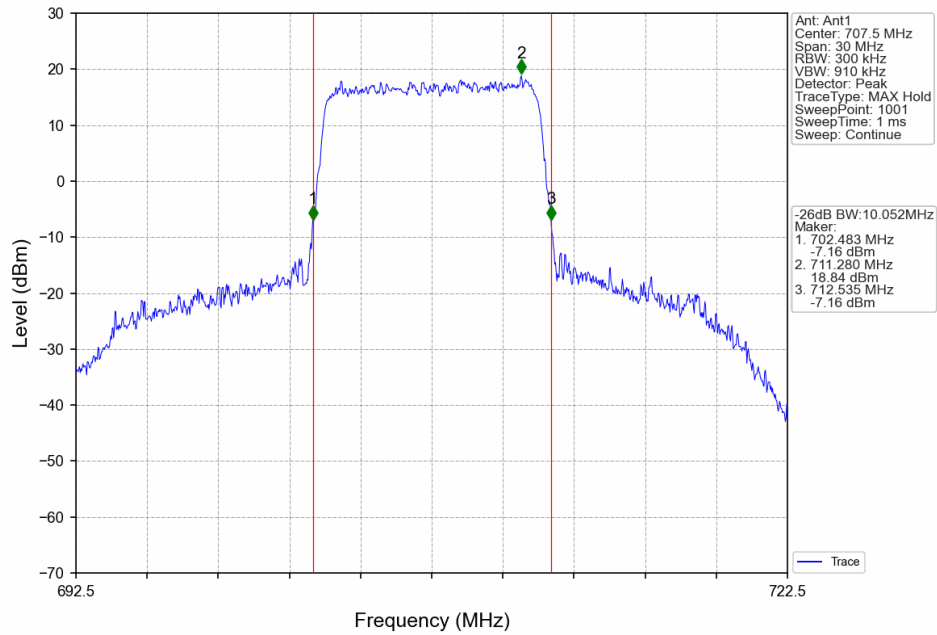
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



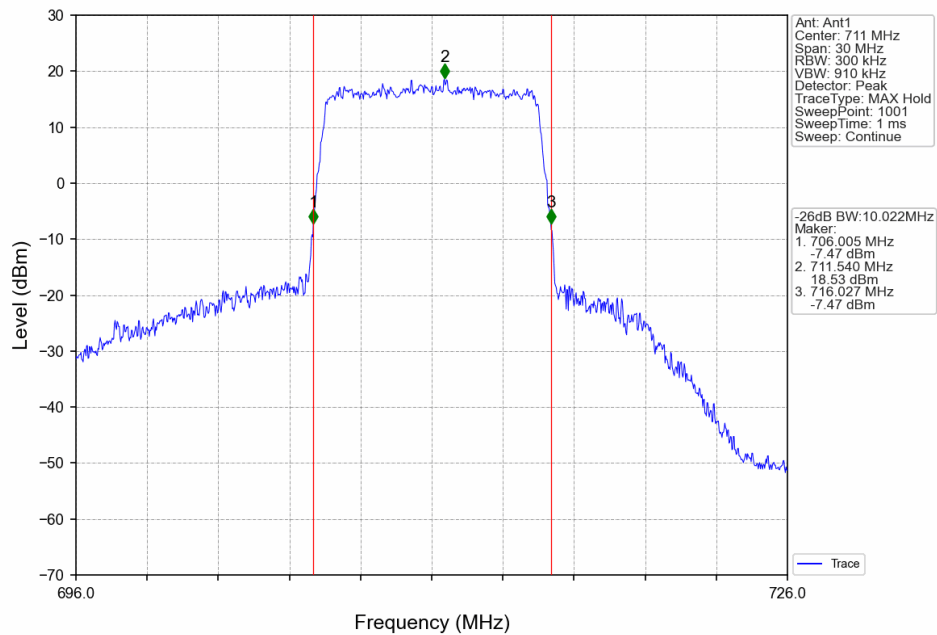
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



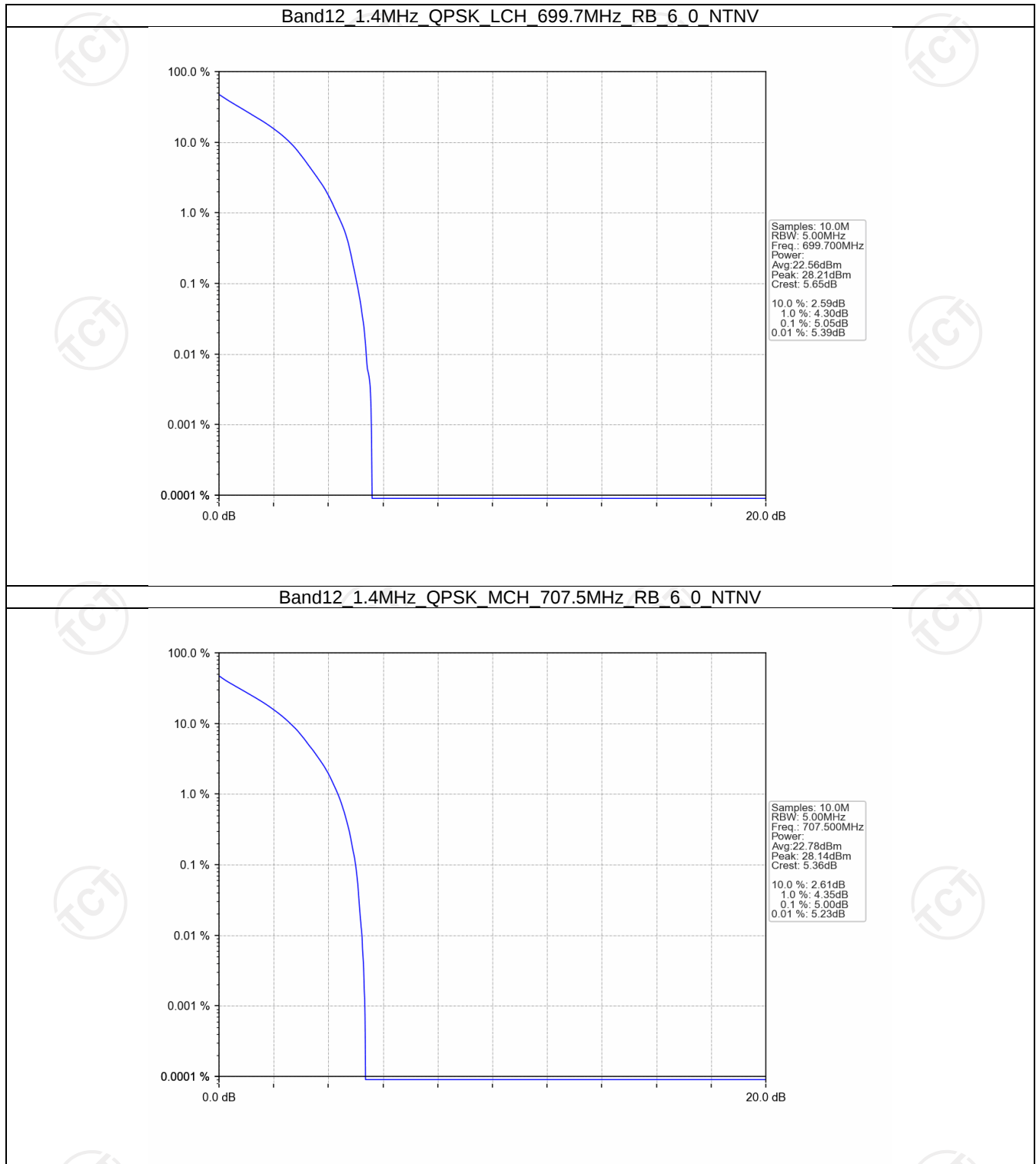
5. Peak-Average Ratio

5.1 B12_1.4MHz

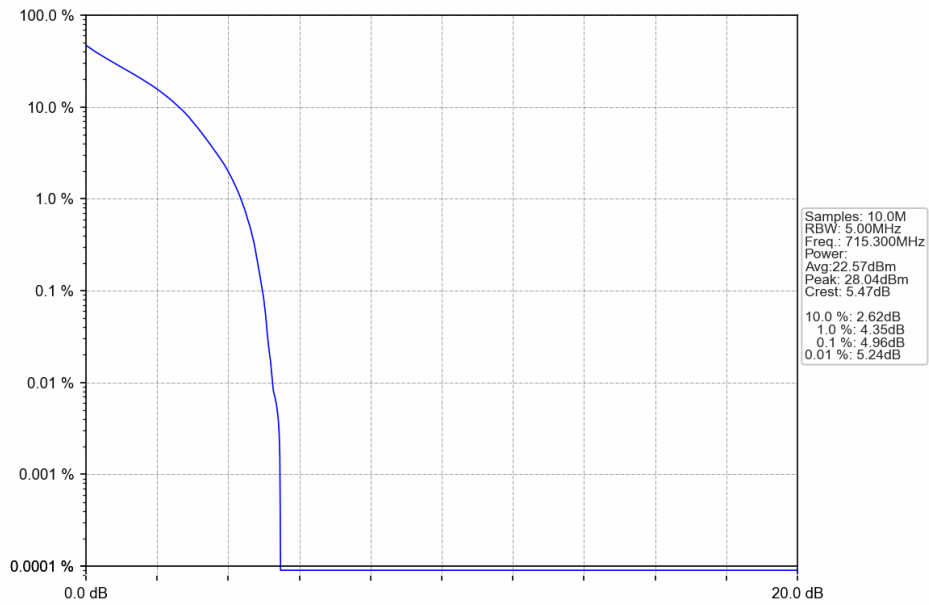
5.1.1 Test Result

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	5.05	<=13	Pass
	707.5	6	0	5.00	<=13	Pass
	715.3	6	0	4.96	<=13	Pass
16QAM	699.7	6	0	5.68	<=13	Pass
	707.5	6	0	5.60	<=13	Pass
	715.3	6	0	5.75	<=13	Pass

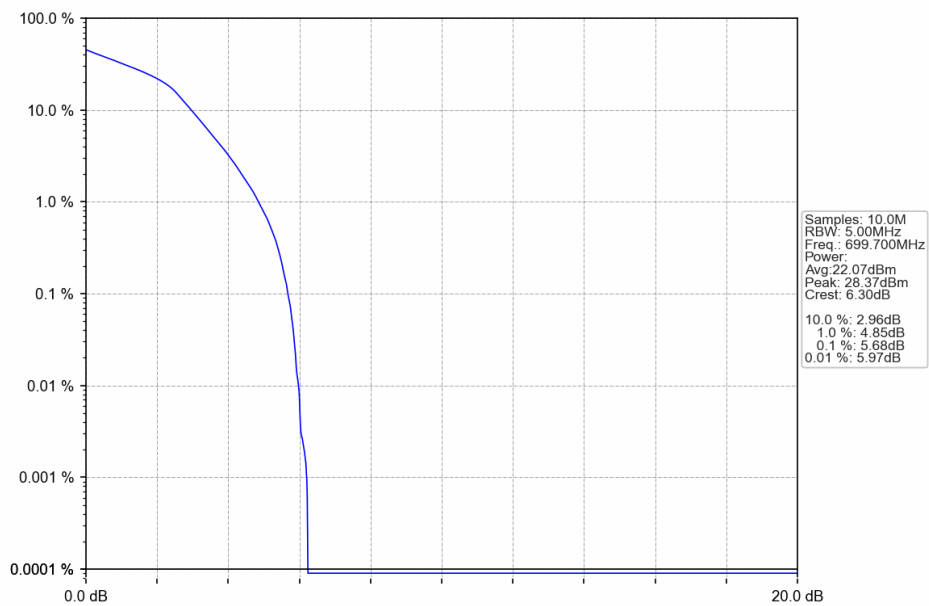
5.1.2 Test Graph



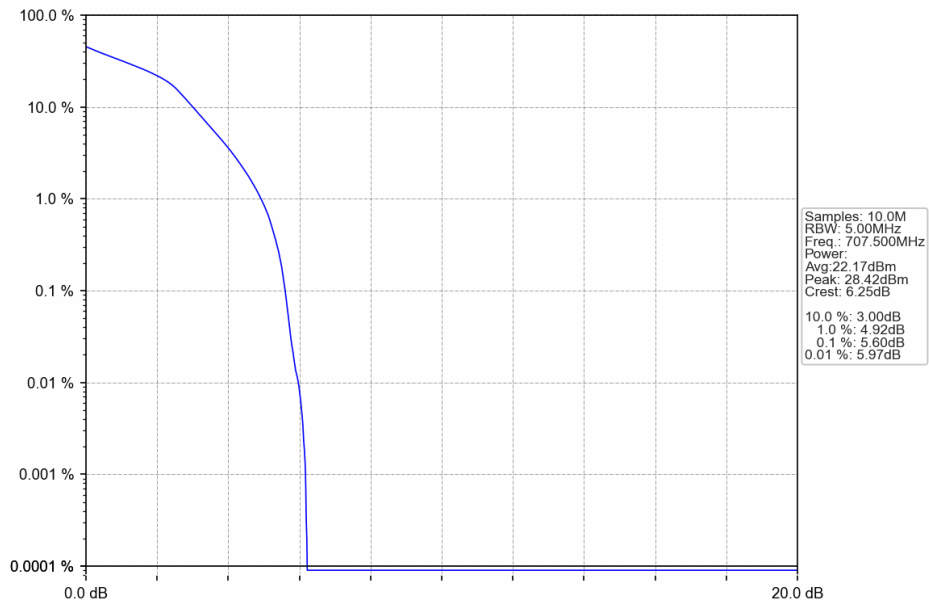
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



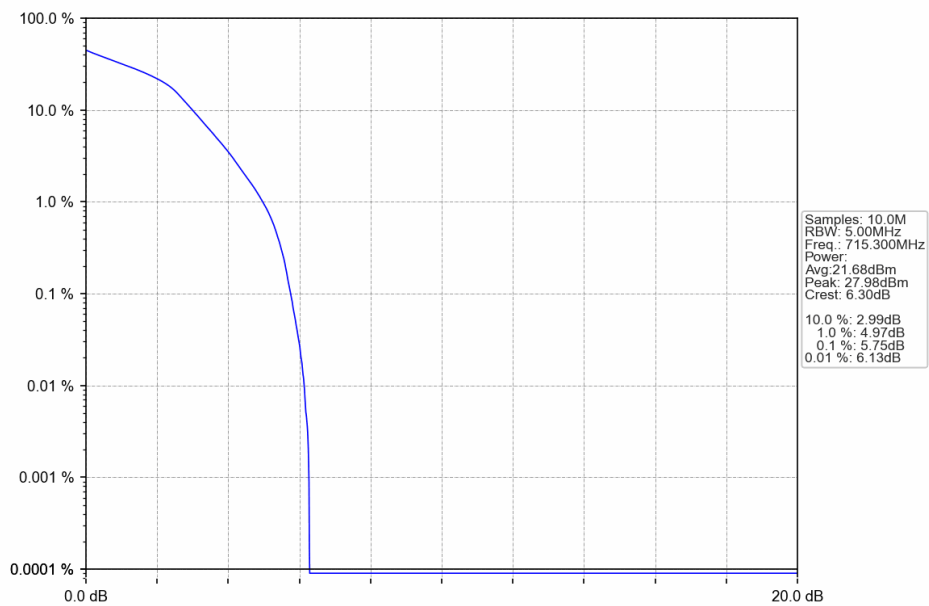
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV

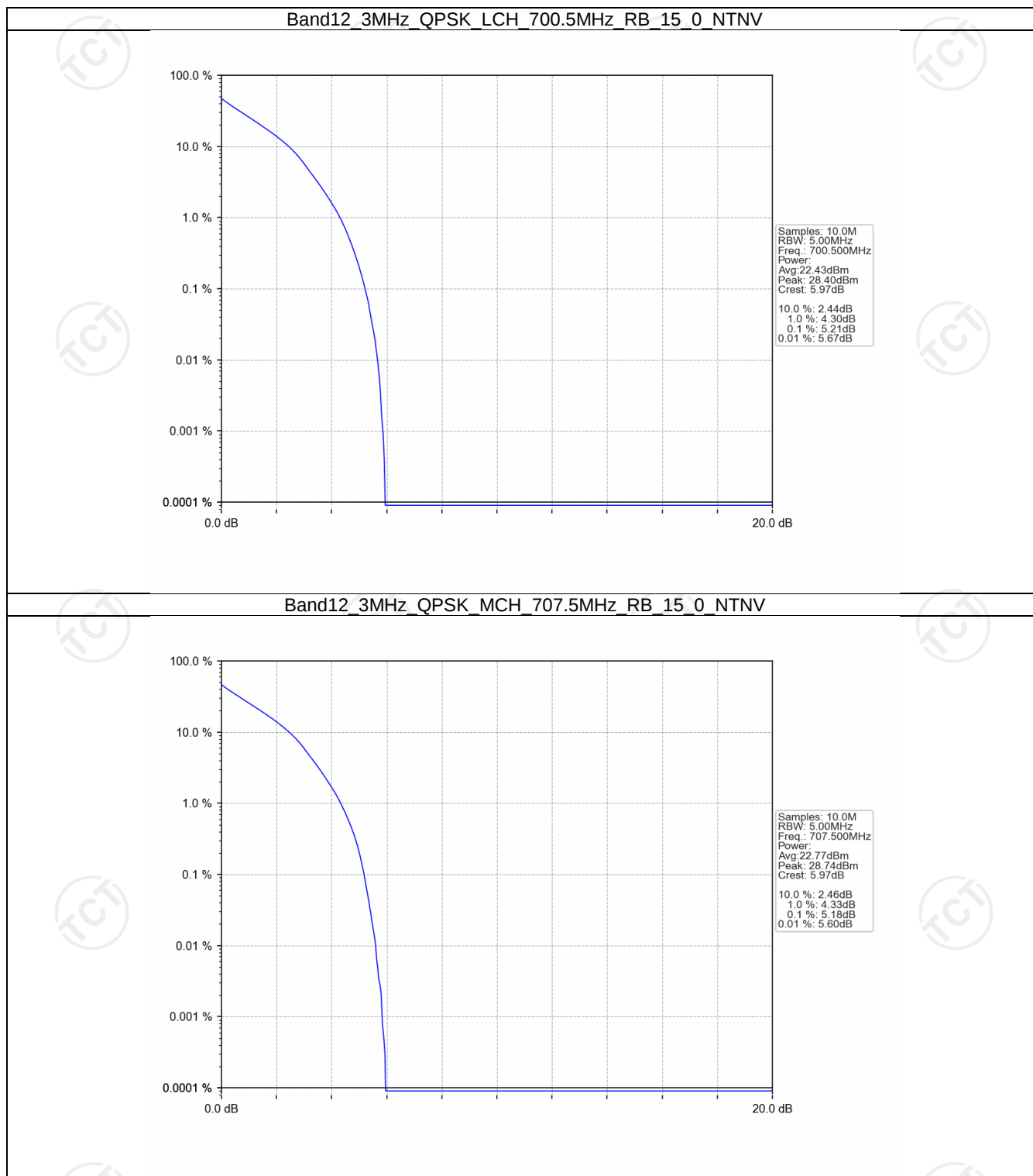


5.2 B12_3MHz

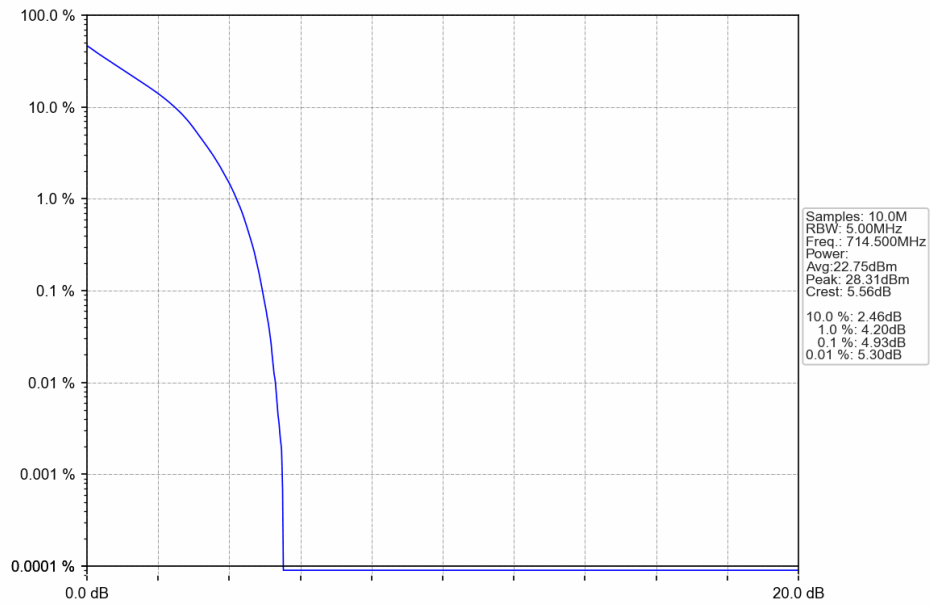
5.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	5.21	<=13	Pass
	707.5	15	0	5.18	<=13	Pass
	714.5	15	0	4.93	<=13	Pass
16QAM	700.5	15	0	5.81	<=13	Pass
	707.5	15	0	5.89	<=13	Pass
	714.5	15	0	5.78	<=13	Pass

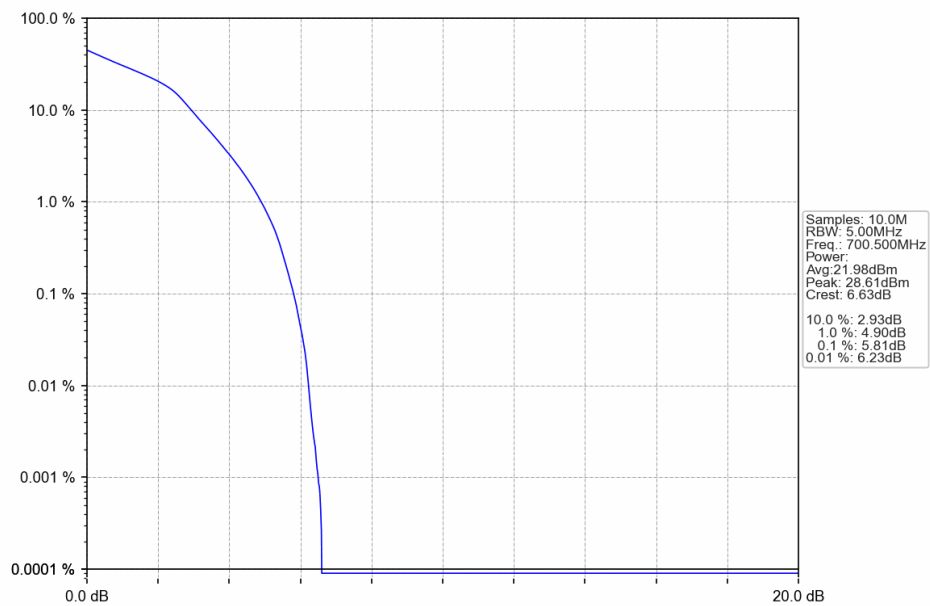
5.2.2 Test Graph



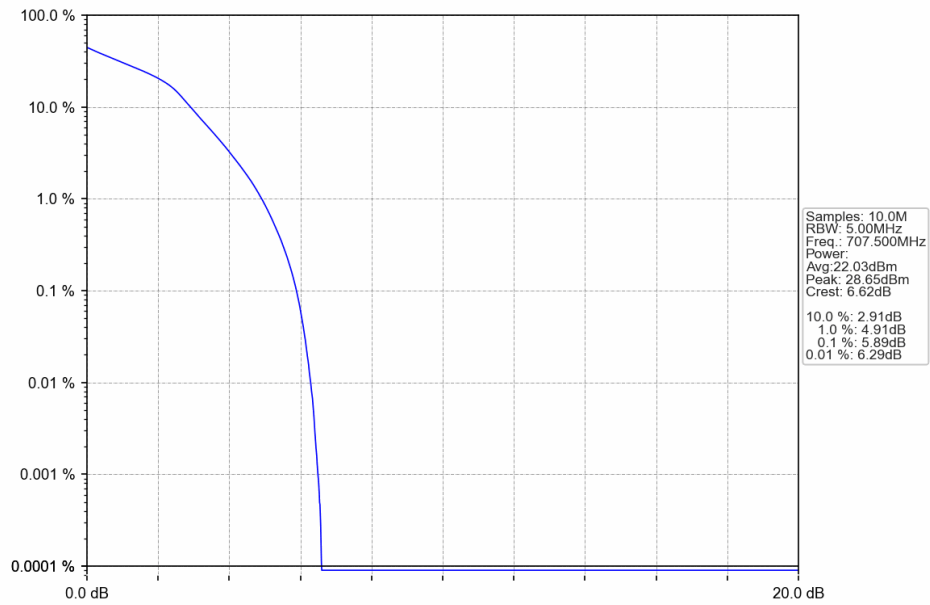
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



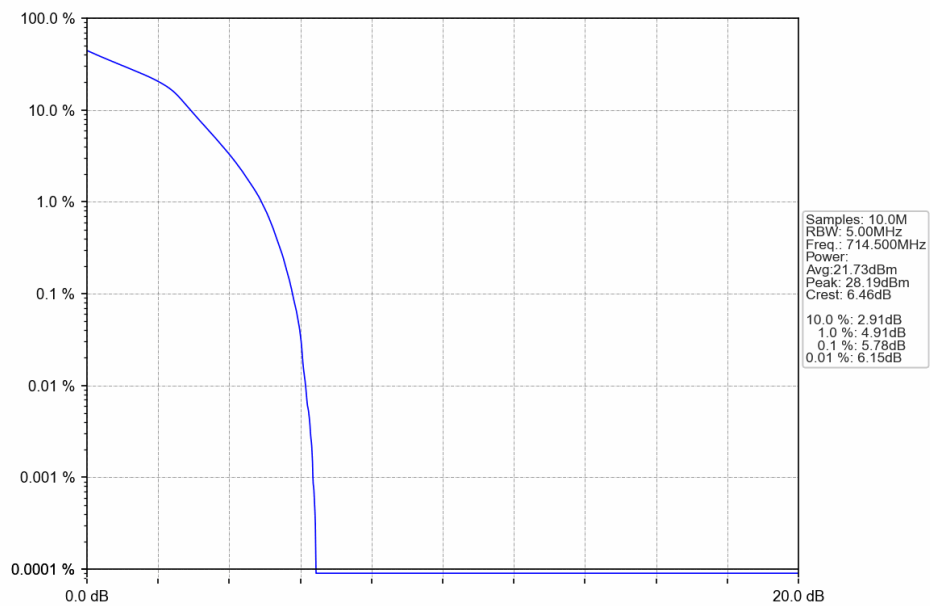
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



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	5.24	<=13	Pass
	707.5	25	0	5.37	<=13	Pass
	713.5	25	0	5.11	<=13	Pass
16QAM	701.5	25	0	6.01	<=13	Pass
	707.5	25	0	6.00	<=13	Pass
	713.5	25	0	5.87	<=13	Pass

5.3.2 Test Graph

