

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	22.09	-2.53	17.41	<=34.77	Pass		
			2	22.07	-2.53	17.39	<=34.77	Pass		
			5	21.97	-2.53	17.29	<=34.77	Pass		
		3	0	21.97	-2.53	17.29	<=34.77	Pass		
			2	21.89	-2.53	17.21	<=34.77	Pass		
			3	21.92	-2.53	17.24	<=34.77	Pass		
		6	0	20.73	-2.53	16.05	<=34.77	Pass		
		707.5	1	0	21.94	-2.53	17.26	<=34.77	Pass	
				2	21.92	-2.53	17.24	<=34.77	Pass	
	5			21.96	-2.53	17.28	<=34.77	Pass		
	3		0	21.95	-2.53	17.27	<=34.77	Pass		
			2	21.95	-2.53	17.27	<=34.77	Pass		
			3	21.89	-2.53	17.21	<=34.77	Pass		
	6		0	21.30	-2.53	16.62	<=34.77	Pass		
	715.3		1	0	21.92	-2.53	17.24	<=34.77	Pass	
				2	21.91	-2.53	17.23	<=34.77	Pass	
		5		21.97	-2.53	17.29	<=34.77	Pass		
		3	0	21.94	-2.53	17.26	<=34.77	Pass		
			2	22.04	-2.53	17.36	<=34.77	Pass		
			3	21.94	-2.53	17.26	<=34.77	Pass		
		6	0	21.00	-2.53	16.32	<=34.77	Pass		
		16QAM	699.7	1	0	20.98	-2.53	16.30	<=34.77	Pass
					2	20.98	-2.53	16.30	<=34.77	Pass
	5				20.92	-2.53	16.24	<=34.77	Pass	
3	0			20.61	-2.53	15.93	<=34.77	Pass		
	2			20.59	-2.53	15.91	<=34.77	Pass		
	3			20.51	-2.53	15.83	<=34.77	Pass		
6	0			19.94	-2.53	15.26	<=34.77	Pass		
707.5	1			0	20.90	-2.53	16.22	<=34.77	Pass	
				2	21.33	-2.53	16.65	<=34.77	Pass	
			5	21.28	-2.53	16.60	<=34.77	Pass		
	3		0	21.07	-2.53	16.39	<=34.77	Pass		
			2	21.08	-2.53	16.40	<=34.77	Pass		
			3	21.04	-2.53	16.36	<=34.77	Pass		
	6		0	20.39	-2.53	15.71	<=34.77	Pass		
	715.3		1	0	21.97	-2.53	17.29	<=34.77	Pass	
				2	21.88	-2.53	17.20	<=34.77	Pass	
5				21.94	-2.53	17.26	<=34.77	Pass		
3			0	20.85	-2.53	16.17	<=34.77	Pass		
			2	20.75	-2.53	16.07	<=34.77	Pass		
			3	20.78	-2.53	16.10	<=34.77	Pass		
6			0	20.01	-2.53	15.33	<=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	21.93	-2.53	17.25	<=34.77	Pass
			7	21.91	-2.53	17.23	<=34.77	Pass
			14	21.99	-2.53	17.31	<=34.77	Pass
		8	0	20.87	-2.53	16.19	<=34.77	Pass
			4	20.81	-2.53	16.13	<=34.77	Pass
			7	20.90	-2.53	16.22	<=34.77	Pass
		15	0	20.99	-2.53	16.31	<=34.77	Pass
	707.5	1	0	21.95	-2.53	17.27	<=34.77	Pass
			7	21.88	-2.53	17.20	<=34.77	Pass
			14	21.88	-2.53	17.20	<=34.77	Pass
		8	0	20.87	-2.53	16.19	<=34.77	Pass
			4	21.35	-2.53	16.67	<=34.77	Pass
			7	21.36	-2.53	16.68	<=34.77	Pass
		15	0	21.30	-2.53	16.62	<=34.77	Pass
	714.5	1	0	22.01	-2.53	17.33	<=34.77	Pass
			7	21.98	-2.53	17.30	<=34.77	Pass
			14	21.93	-2.53	17.25	<=34.77	Pass
		8	0	20.98	-2.53	16.30	<=34.77	Pass
			4	20.90	-2.53	16.22	<=34.77	Pass
			7	20.97	-2.53	16.29	<=34.77	Pass
		15	0	20.99	-2.53	16.31	<=34.77	Pass
16QAM	700.5	1	0	21.04	-2.53	16.36	<=34.77	Pass
			7	21.12	-2.53	16.44	<=34.77	Pass
			14	21.04	-2.53	16.36	<=34.77	Pass
		8	0	20.09	-2.53	15.41	<=34.77	Pass
			4	20.06	-2.53	15.38	<=34.77	Pass
			7	20.05	-2.53	15.37	<=34.77	Pass
		15	0	19.92	-2.53	15.24	<=34.77	Pass
	707.5	1	0	21.49	-2.53	16.81	<=34.77	Pass
			7	21.91	-2.53	17.23	<=34.77	Pass
			14	21.92	-2.53	17.24	<=34.77	Pass
		8	0	20.06	-2.53	15.38	<=34.77	Pass
			4	20.46	-2.53	15.78	<=34.77	Pass
			7	20.45	-2.53	15.77	<=34.77	Pass
		15	0	20.42	-2.53	15.74	<=34.77	Pass
	714.5	1	0	21.65	-2.53	16.97	<=34.77	Pass
			7	21.63	-2.53	16.95	<=34.77	Pass
			14	21.59	-2.53	16.91	<=34.77	Pass
		8	0	20.19	-2.53	15.51	<=34.77	Pass
			4	20.18	-2.53	15.50	<=34.77	Pass
			7	20.02	-2.53	15.34	<=34.77	Pass
		15	0	20.02	-2.53	15.34	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.3 B12_5MHz_ERP

Band: 12 / Bandwidth: 5MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	701.5	1	0	21.87	-2.53	17.19	<=34.77	Pass
			13	21.95	-2.53	17.27	<=34.77	Pass
			24	21.91	-2.53	17.23	<=34.77	Pass
		12	0	20.80	-2.53	16.12	<=34.77	Pass
			6	20.99	-2.53	16.31	<=34.77	Pass
			13	20.91	-2.53	16.23	<=34.77	Pass

16QAM	707.5	25	0	20.92	-2.53	16.24	<=34.77	Pass
		1	0	21.93	-2.53	17.25	<=34.77	Pass
			13	21.78	-2.53	17.10	<=34.77	Pass
			24	21.71	-2.53	17.03	<=34.77	Pass
		12	0	20.94	-2.53	16.26	<=34.77	Pass
			6	21.35	-2.53	16.67	<=34.77	Pass
			13	21.33	-2.53	16.65	<=34.77	Pass
		25	0	21.28	-2.53	16.60	<=34.77	Pass
	713.5	1	0	21.65	-2.53	16.97	<=34.77	Pass
			13	21.81	-2.53	17.13	<=34.77	Pass
			24	21.80	-2.53	17.12	<=34.77	Pass
		12	0	20.83	-2.53	16.15	<=34.77	Pass
			6	20.94	-2.53	16.26	<=34.77	Pass
			13	20.88	-2.53	16.20	<=34.77	Pass
		25	0	21.02	-2.53	16.34	<=34.77	Pass
	701.5	1	0	21.28	-2.53	16.60	<=34.77	Pass
			13	21.21	-2.53	16.53	<=34.77	Pass
			24	21.29	-2.53	16.61	<=34.77	Pass
		12	0	19.77	-2.53	15.09	<=34.77	Pass
			6	19.76	-2.53	15.08	<=34.77	Pass
			13	19.76	-2.53	15.08	<=34.77	Pass
		25	0	19.75	-2.53	15.07	<=34.77	Pass
	707.5	1	0	20.58	-2.53	15.90	<=34.77	Pass
			13	20.97	-2.53	16.29	<=34.77	Pass
			24	20.54	-2.53	15.86	<=34.77	Pass
		12	0	19.95	-2.53	15.27	<=34.77	Pass
			6	20.35	-2.53	15.67	<=34.77	Pass
			13	20.32	-2.53	15.64	<=34.77	Pass
		25	0	20.40	-2.53	15.72	<=34.77	Pass
	713.5	1	0	21.26	-2.53	16.58	<=34.77	Pass
			13	21.43	-2.53	16.75	<=34.77	Pass
			24	21.37	-2.53	16.69	<=34.77	Pass
		12	0	19.82	-2.53	15.14	<=34.77	Pass
			6	19.95	-2.53	15.27	<=34.77	Pass
			13	19.95	-2.53	15.27	<=34.77	Pass
		25	0	20.05	-2.53	15.37	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.4 B12_10MHz_ERP

Band: 12 / Bandwidth: 10MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	704	1	0	21.88	-2.53	17.20	<=34.77	Pass
			25	21.83	-2.53	17.15	<=34.77	Pass
			49	21.84	-2.53	17.16	<=34.77	Pass
		25	0	20.98	-2.53	16.30	<=34.77	Pass
			13	20.88	-2.53	16.20	<=34.77	Pass
			25	20.73	-2.53	16.05	<=34.77	Pass
		50	0	20.88	-2.53	16.20	<=34.77	Pass
	707.5	1	0	21.84	-2.53	17.16	<=34.77	Pass
			25	21.84	-2.53	17.16	<=34.77	Pass
			49	21.88	-2.53	17.20	<=34.77	Pass
		25	0	20.81	-2.53	16.13	<=34.77	Pass
			13	21.32	-2.53	16.64	<=34.77	Pass
			25	20.90	-2.53	16.22	<=34.77	Pass
		50	0	21.25	-2.53	16.57	<=34.77	Pass

16QAM	711	1	0	21.91	-2.53	17.23	<=34.77	Pass
			25	21.76	-2.53	17.08	<=34.77	Pass
			49	21.84	-2.53	17.16	<=34.77	Pass
		25	0	21.20	-2.53	16.52	<=34.77	Pass
			13	20.86	-2.53	16.18	<=34.77	Pass
			25	21.00	-2.53	16.32	<=34.77	Pass
		50	0	20.83	-2.53	16.15	<=34.77	Pass
	704	1	0	20.96	-2.53	16.28	<=34.77	Pass
			25	20.98	-2.53	16.30	<=34.77	Pass
			49	21.46	-2.53	16.78	<=34.77	Pass
		25	0	20.06	-2.53	15.38	<=34.77	Pass
			13	20.06	-2.53	15.38	<=34.77	Pass
			25	20.12	-2.53	15.44	<=34.77	Pass
		50	0	19.98	-2.53	15.30	<=34.77	Pass
	707.5	1	0	21.51	-2.53	16.83	<=34.77	Pass
			25	21.77	-2.53	17.09	<=34.77	Pass
			49	21.38	-2.53	16.70	<=34.77	Pass
		25	0	20.11	-2.53	15.43	<=34.77	Pass
			13	20.43	-2.53	15.75	<=34.77	Pass
			25	19.91	-2.53	15.23	<=34.77	Pass
		50	0	20.46	-2.53	15.78	<=34.77	Pass
	711	1	0	21.60	-2.53	16.92	<=34.77	Pass
			25	21.73	-2.53	17.05	<=34.77	Pass
			49	21.75	-2.53	17.07	<=34.77	Pass
		25	0	20.36	-2.53	15.68	<=34.77	Pass
			13	19.78	-2.53	15.10	<=34.77	Pass
			25	20.00	-2.53	15.32	<=34.77	Pass
		50	0	19.78	-2.53	15.10	<=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	1.602	0.0023	-2.5 to 2.5	Pass
					3.85	-2.074	-0.0030	-2.5 to 2.5	Pass
					4.43	-2.046	-0.0029	-2.5 to 2.5	Pass
				-30	3.85	-2.046	-0.0029	-2.5 to 2.5	Pass
				-20	3.85	-4.120	-0.0059	-2.5 to 2.5	Pass
				-10	3.85	-5.450	-0.0078	-2.5 to 2.5	Pass
				0	3.85	-5.436	-0.0078	-2.5 to 2.5	Pass
				10	3.85	-7.224	-0.0103	-2.5 to 2.5	Pass
				30	3.85	-7.839	-0.0112	-2.5 to 2.5	Pass
				40	3.85	-7.968	-0.0114	-2.5 to 2.5	Pass
				50	3.85	-8.740	-0.0125	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	3.719	0.0053	-2.5 to 2.5	Pass
					3.85	-2.503	-0.0035	-2.5 to 2.5	Pass
					4.43	-6.166	-0.0087	-2.5 to 2.5	Pass
				-30	3.85	-8.683	-0.0123	-2.5 to 2.5	Pass
				-20	3.85	-12.002	-0.0170	-2.5 to 2.5	Pass
				-10	3.85	-13.175	-0.0186	-2.5 to 2.5	Pass

				0	3.85	-13.318	-0.0188	-2.5 to 2.5	Pass
				10	3.85	-16.465	-0.0233	-2.5 to 2.5	Pass
				30	3.85	-16.294	-0.0230	-2.5 to 2.5	Pass
				40	3.85	-16.422	-0.0232	-2.5 to 2.5	Pass
				50	3.85	-17.295	-0.0244	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	-1.516	-0.0021	-2.5 to 2.5	Pass
					3.85	-9.928	-0.0139	-2.5 to 2.5	Pass
					4.43	-14.806	-0.0207	-2.5 to 2.5	Pass
				-30	3.85	-23.589	-0.0330	-2.5 to 2.5	Pass
				-20	3.85	-28.510	-0.0399	-2.5 to 2.5	Pass
				-10	3.85	-31.986	-0.0447	-2.5 to 2.5	Pass
				0	3.85	-33.832	-0.0473	-2.5 to 2.5	Pass
				10	3.85	-35.734	-0.0500	-2.5 to 2.5	Pass
				30	3.85	-39.425	-0.0551	-2.5 to 2.5	Pass
				40	3.85	-40.956	-0.0573	-2.5 to 2.5	Pass
				50	3.85	-42.543	-0.0595	-2.5 to 2.5	Pass
16QAM	699.7	6	0	20	3.27	-9.027	-0.0129	-2.5 to 2.5	Pass
					3.85	-9.627	-0.0138	-2.5 to 2.5	Pass
					4.43	-7.067	-0.0101	-2.5 to 2.5	Pass
				-30	3.85	-9.756	-0.0139	-2.5 to 2.5	Pass
				-20	3.85	-7.896	-0.0113	-2.5 to 2.5	Pass
				-10	3.85	-9.270	-0.0132	-2.5 to 2.5	Pass
				0	3.85	-8.941	-0.0128	-2.5 to 2.5	Pass
				10	3.85	-8.698	-0.0124	-2.5 to 2.5	Pass
				30	3.85	-8.655	-0.0124	-2.5 to 2.5	Pass
				40	3.85	-8.154	-0.0117	-2.5 to 2.5	Pass
				50	3.85	-5.994	-0.0086	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	-16.694	-0.0236	-2.5 to 2.5	Pass
					3.85	-16.737	-0.0237	-2.5 to 2.5	Pass
					4.43	-17.252	-0.0244	-2.5 to 2.5	Pass
				-30	3.85	-16.494	-0.0233	-2.5 to 2.5	Pass
				-20	3.85	-16.780	-0.0237	-2.5 to 2.5	Pass
				-10	3.85	-16.594	-0.0235	-2.5 to 2.5	Pass
				0	3.85	-16.608	-0.0235	-2.5 to 2.5	Pass
				10	3.85	-16.608	-0.0235	-2.5 to 2.5	Pass
				30	3.85	-15.678	-0.0222	-2.5 to 2.5	Pass
				40	3.85	-17.223	-0.0243	-2.5 to 2.5	Pass
				50	3.85	-17.295	-0.0244	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	-40.584	-0.0567	-2.5 to 2.5	Pass
					3.85	-39.496	-0.0552	-2.5 to 2.5	Pass
					4.43	-40.855	-0.0571	-2.5 to 2.5	Pass
				-30	3.85	-40.355	-0.0564	-2.5 to 2.5	Pass
				-20	3.85	-39.983	-0.0559	-2.5 to 2.5	Pass
				-10	3.85	-40.283	-0.0563	-2.5 to 2.5	Pass
				0	3.85	-37.766	-0.0528	-2.5 to 2.5	Pass
				10	3.85	-38.166	-0.0534	-2.5 to 2.5	Pass
				30	3.85	-40.512	-0.0566	-2.5 to 2.5	Pass
				40	3.85	1.745	0.0024	-2.5 to 2.5	Pass
				50	3.85	1.101	0.0015	-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	-7.453	-0.0106	-2.5 to 2.5	Pass
					3.85	-22.459	-0.0321	-2.5 to 2.5	Pass

16QAM					4.43	-37.894	-0.0541	-2.5 to 2.5	Pass
				-30	3.85	3.033	0.0043	-2.5 to 2.5	Pass
				-20	3.85	-7.854	-0.0112	-2.5 to 2.5	Pass
				-10	3.85	-14.806	-0.0211	-2.5 to 2.5	Pass
				0	3.85	-21.672	-0.0309	-2.5 to 2.5	Pass
				10	3.85	-28.653	-0.0409	-2.5 to 2.5	Pass
				30	3.85	-32.945	-0.0470	-2.5 to 2.5	Pass
				40	3.85	-35.877	-0.0512	-2.5 to 2.5	Pass
				50	3.85	-38.166	-0.0545	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	-6.037	-0.0085	-2.5 to 2.5	Pass
					3.85	-11.387	-0.0161	-2.5 to 2.5	Pass
					4.43	-16.136	-0.0228	-2.5 to 2.5	Pass
				-30	3.85	-22.130	-0.0313	-2.5 to 2.5	Pass
				-20	3.85	-24.905	-0.0352	-2.5 to 2.5	Pass
				-10	3.85	-28.596	-0.0404	-2.5 to 2.5	Pass
				0	3.85	-33.989	-0.0480	-2.5 to 2.5	Pass
				10	3.85	-35.520	-0.0502	-2.5 to 2.5	Pass
				30	3.85	-38.710	-0.0547	-2.5 to 2.5	Pass
				40	3.85	-41.485	-0.0586	-2.5 to 2.5	Pass
				50	3.85	-42.086	-0.0595	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	2.632	0.0037	-2.5 to 2.5	Pass
					3.85	2.189	0.0031	-2.5 to 2.5	Pass
					4.43	1.974	0.0028	-2.5 to 2.5	Pass
				-30	3.85	1.917	0.0027	-2.5 to 2.5	Pass
				-20	3.85	1.373	0.0019	-2.5 to 2.5	Pass
				-10	3.85	1.345	0.0019	-2.5 to 2.5	Pass
				0	3.85	3.190	0.0045	-2.5 to 2.5	Pass
				10	3.85	3.247	0.0045	-2.5 to 2.5	Pass
				30	3.85	3.791	0.0053	-2.5 to 2.5	Pass
				40	3.85	2.875	0.0040	-2.5 to 2.5	Pass
				50	3.85	3.519	0.0049	-2.5 to 2.5	Pass
	700.5	15	0	20	3.27	-43.659	-0.0623	-2.5 to 2.5	Pass
					3.85	-44.761	-0.0639	-2.5 to 2.5	Pass
					4.43	-4.191	-0.0060	-2.5 to 2.5	Pass
				-30	3.85	-5.465	-0.0078	-2.5 to 2.5	Pass
				-20	3.85	-5.808	-0.0083	-2.5 to 2.5	Pass
				-10	3.85	-6.580	-0.0094	-2.5 to 2.5	Pass
				0	3.85	-6.452	-0.0092	-2.5 to 2.5	Pass
				10	3.85	-6.852	-0.0098	-2.5 to 2.5	Pass
				30	3.85	-7.410	-0.0106	-2.5 to 2.5	Pass
				40	3.85	-9.184	-0.0131	-2.5 to 2.5	Pass
				50	3.85	-9.899	-0.0141	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	-42.915	-0.0607	-2.5 to 2.5	Pass
					3.85	-41.070	-0.0580	-2.5 to 2.5	Pass
					4.43	-41.370	-0.0585	-2.5 to 2.5	Pass
				-30	3.85	-41.943	-0.0593	-2.5 to 2.5	Pass
				-20	3.85	-42.386	-0.0599	-2.5 to 2.5	Pass
				-10	3.85	-43.888	-0.0620	-2.5 to 2.5	Pass
				0	3.85	-44.446	-0.0628	-2.5 to 2.5	Pass
				10	3.85	-44.189	-0.0625	-2.5 to 2.5	Pass
				30	3.85	-44.904	-0.0635	-2.5 to 2.5	Pass
				40	3.85	-44.789	-0.0633	-2.5 to 2.5	Pass
				50	3.85	-45.390	-0.0642	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	5.193	0.0073	-2.5 to 2.5	Pass
					3.85	7.367	0.0103	-2.5 to 2.5	Pass
					4.43	6.423	0.0090	-2.5 to 2.5	Pass
				-30	3.85	8.140	0.0114	-2.5 to 2.5	Pass
				-20	3.85	9.112	0.0128	-2.5 to 2.5	Pass
				-10	3.85	8.183	0.0115	-2.5 to 2.5	Pass

				0	3.85	10.343	0.0145	-2.5 to 2.5	Pass
				10	3.85	11.215	0.0157	-2.5 to 2.5	Pass
				30	3.85	12.159	0.0170	-2.5 to 2.5	Pass
				40	3.85	12.188	0.0171	-2.5 to 2.5	Pass
				50	3.85	13.404	0.0188	-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	0.415	0.0006	-2.5 to 2.5	Pass
					3.85	-12.145	-0.0173	-2.5 to 2.5	Pass
					4.43	-24.076	-0.0343	-2.5 to 2.5	Pass
				-30	3.85	-35.620	-0.0508	-2.5 to 2.5	Pass
				-20	3.85	-44.045	-0.0628	-2.5 to 2.5	Pass
				-10	3.85	-6.080	-0.0087	-2.5 to 2.5	Pass
				0	3.85	-10.786	-0.0154	-2.5 to 2.5	Pass
				10	3.85	-15.221	-0.0217	-2.5 to 2.5	Pass
				30	3.85	-19.870	-0.0283	-2.5 to 2.5	Pass
				40	3.85	-23.274	-0.0332	-2.5 to 2.5	Pass
				50	3.85	-24.390	-0.0348	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-3.777	-0.0053	-2.5 to 2.5	Pass
					3.85	-7.982	-0.0113	-2.5 to 2.5	Pass
					4.43	-10.471	-0.0148	-2.5 to 2.5	Pass
				-30	3.85	-10.743	-0.0152	-2.5 to 2.5	Pass
				-20	3.85	-11.444	-0.0162	-2.5 to 2.5	Pass
				-10	3.85	-12.474	-0.0176	-2.5 to 2.5	Pass
				0	3.85	-12.946	-0.0183	-2.5 to 2.5	Pass
				10	3.85	-12.703	-0.0180	-2.5 to 2.5	Pass
				30	3.85	-12.631	-0.0179	-2.5 to 2.5	Pass
				40	3.85	-12.331	-0.0174	-2.5 to 2.5	Pass
				50	3.85	-13.046	-0.0184	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	0.629	0.0009	-2.5 to 2.5	Pass
					3.85	-1.044	-0.0015	-2.5 to 2.5	Pass
					4.43	-1.831	-0.0026	-2.5 to 2.5	Pass
				-30	3.85	-3.734	-0.0052	-2.5 to 2.5	Pass
				-20	3.85	-3.605	-0.0051	-2.5 to 2.5	Pass
				-10	3.85	-4.907	-0.0069	-2.5 to 2.5	Pass
				0	3.85	-4.520	-0.0063	-2.5 to 2.5	Pass
				10	3.85	-5.922	-0.0083	-2.5 to 2.5	Pass
				30	3.85	-5.865	-0.0082	-2.5 to 2.5	Pass
				40	3.85	-5.894	-0.0083	-2.5 to 2.5	Pass
				50	3.85	-5.908	-0.0083	-2.5 to 2.5	Pass
16QAM	701.5	25	0	20	3.27	-27.637	-0.0394	-2.5 to 2.5	Pass
					3.85	-28.596	-0.0408	-2.5 to 2.5	Pass
					4.43	-29.240	-0.0417	-2.5 to 2.5	Pass
				-30	3.85	-30.112	-0.0429	-2.5 to 2.5	Pass
				-20	3.85	-29.883	-0.0426	-2.5 to 2.5	Pass
				-10	3.85	-32.244	-0.0460	-2.5 to 2.5	Pass
				0	3.85	-32.930	-0.0469	-2.5 to 2.5	Pass
				10	3.85	-34.575	-0.0493	-2.5 to 2.5	Pass
				30	3.85	-34.161	-0.0487	-2.5 to 2.5	Pass
				40	3.85	-34.275	-0.0489	-2.5 to 2.5	Pass
				50	3.85	-34.647	-0.0494	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-11.644	-0.0165	-2.5 to 2.5	Pass
					3.85	-10.400	-0.0147	-2.5 to 2.5	Pass

					4.43	-11.101	-0.0157	-2.5 to 2.5	Pass
				-30	3.85	-11.058	-0.0156	-2.5 to 2.5	Pass
				-20	3.85	-11.501	-0.0163	-2.5 to 2.5	Pass
				-10	3.85	-9.899	-0.0140	-2.5 to 2.5	Pass
				0	3.85	-12.074	-0.0171	-2.5 to 2.5	Pass
				10	3.85	-11.387	-0.0161	-2.5 to 2.5	Pass
				30	3.85	-11.401	-0.0161	-2.5 to 2.5	Pass
				40	3.85	-12.059	-0.0170	-2.5 to 2.5	Pass
				50	3.85	-12.045	-0.0170	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-6.409	-0.0090	-2.5 to 2.5	Pass
					3.85	-5.264	-0.0074	-2.5 to 2.5	Pass
					4.43	-5.779	-0.0081	-2.5 to 2.5	Pass
				-30	3.85	-4.320	-0.0061	-2.5 to 2.5	Pass
				-20	3.85	-4.606	-0.0065	-2.5 to 2.5	Pass
				-10	3.85	-4.177	-0.0059	-2.5 to 2.5	Pass
				0	3.85	-5.107	-0.0072	-2.5 to 2.5	Pass
				10	3.85	-3.505	-0.0049	-2.5 to 2.5	Pass
				30	3.85	-2.489	-0.0035	-2.5 to 2.5	Pass
				40	3.85	-2.317	-0.0032	-2.5 to 2.5	Pass
				50	3.85	-1.001	-0.0014	-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	-4.978	-0.0071	-2.5 to 2.5	Pass
					3.85	-20.456	-0.0291	-2.5 to 2.5	Pass
					4.43	-35.377	-0.0503	-2.5 to 2.5	Pass
				-30	3.85	-45.619	-0.0648	-2.5 to 2.5	Pass
				-20	3.85	-7.968	-0.0113	-2.5 to 2.5	Pass
				-10	3.85	-12.832	-0.0182	-2.5 to 2.5	Pass
				0	3.85	-16.580	-0.0236	-2.5 to 2.5	Pass
				10	3.85	-18.110	-0.0257	-2.5 to 2.5	Pass
				30	3.85	-19.784	-0.0281	-2.5 to 2.5	Pass
				40	3.85	-22.788	-0.0324	-2.5 to 2.5	Pass
				50	3.85	-22.945	-0.0326	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	4.592	0.0065	-2.5 to 2.5	Pass
					3.85	1.402	0.0020	-2.5 to 2.5	Pass
					4.43	0.629	0.0009	-2.5 to 2.5	Pass
				-30	3.85	2.031	0.0029	-2.5 to 2.5	Pass
				-20	3.85	1.373	0.0019	-2.5 to 2.5	Pass
				-10	3.85	1.588	0.0022	-2.5 to 2.5	Pass
				0	3.85	2.275	0.0032	-2.5 to 2.5	Pass
				10	3.85	2.117	0.0030	-2.5 to 2.5	Pass
				30	3.85	2.217	0.0031	-2.5 to 2.5	Pass
				40	3.85	1.888	0.0027	-2.5 to 2.5	Pass
				50	3.85	3.490	0.0049	-2.5 to 2.5	Pass
	711	50	0	20	3.27	1.745	0.0025	-2.5 to 2.5	Pass
					3.85	-1.717	-0.0024	-2.5 to 2.5	Pass
					4.43	-3.691	-0.0052	-2.5 to 2.5	Pass
				-30	3.85	-2.460	-0.0035	-2.5 to 2.5	Pass
				-20	3.85	-2.375	-0.0033	-2.5 to 2.5	Pass
				-10	3.85	-3.419	-0.0048	-2.5 to 2.5	Pass
				0	3.85	-2.618	-0.0037	-2.5 to 2.5	Pass
				10	3.85	-3.719	-0.0052	-2.5 to 2.5	Pass
				30	3.85	-2.332	-0.0033	-2.5 to 2.5	Pass

16QAM				40	3.85	-3.047	-0.0043	-2.5 to 2.5	Pass
				50	3.85	-3.705	-0.0052	-2.5 to 2.5	Pass
				20	3.27	-22.545	-0.0320	-2.5 to 2.5	Pass
	3.85	-24.018	-0.0341		-2.5 to 2.5	Pass			
	4.43	-24.834	-0.0353		-2.5 to 2.5	Pass			
	-30	3.85	-24.061	-0.0342	-2.5 to 2.5	Pass			
	-20	3.85	-24.147	-0.0343	-2.5 to 2.5	Pass			
	-10	3.85	-23.475	-0.0333	-2.5 to 2.5	Pass			
	0	3.85	-24.362	-0.0346	-2.5 to 2.5	Pass			
	10	3.85	-23.518	-0.0334	-2.5 to 2.5	Pass			
	30	3.85	-24.891	-0.0354	-2.5 to 2.5	Pass			
	40	3.85	-24.862	-0.0353	-2.5 to 2.5	Pass			
	50	3.85	-27.008	-0.0384	-2.5 to 2.5	Pass			
	704	50	0	20	3.27	5.808	0.0082	-2.5 to 2.5	Pass
					3.85	4.406	0.0062	-2.5 to 2.5	Pass
					4.43	3.948	0.0056	-2.5 to 2.5	Pass
				-30	3.85	3.190	0.0045	-2.5 to 2.5	Pass
				-20	3.85	4.420	0.0062	-2.5 to 2.5	Pass
				-10	3.85	2.875	0.0041	-2.5 to 2.5	Pass
				0	3.85	3.591	0.0051	-2.5 to 2.5	Pass
				10	3.85	3.848	0.0054	-2.5 to 2.5	Pass
				30	3.85	3.877	0.0055	-2.5 to 2.5	Pass
				40	3.85	3.805	0.0054	-2.5 to 2.5	Pass
				50	3.85	2.561	0.0036	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-3.905	-0.0055	-2.5 to 2.5	Pass
					3.85	-2.732	-0.0038	-2.5 to 2.5	Pass
					4.43	-2.890	-0.0041	-2.5 to 2.5	Pass
				-30	3.85	-3.190	-0.0045	-2.5 to 2.5	Pass
				-20	3.85	-3.076	-0.0043	-2.5 to 2.5	Pass
				-10	3.85	-3.562	-0.0050	-2.5 to 2.5	Pass
				0	3.85	-3.834	-0.0054	-2.5 to 2.5	Pass
				10	3.85	-0.844	-0.0012	-2.5 to 2.5	Pass
				30	3.85	-1.645	-0.0023	-2.5 to 2.5	Pass
				40	3.85	-1.030	-0.0014	-2.5 to 2.5	Pass
				50	3.85	-0.987	-0.0014	-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

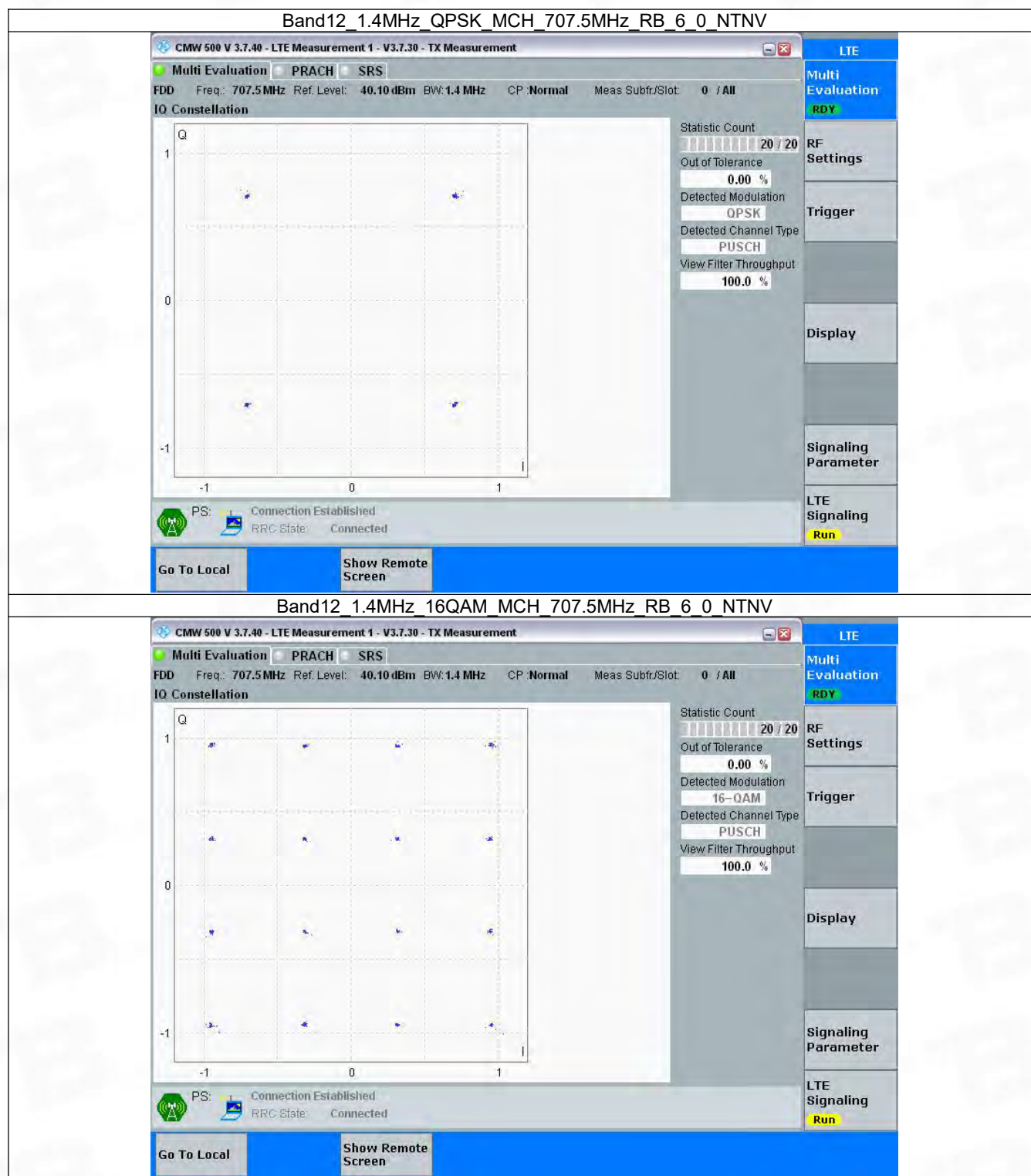
Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	25	0	Refer To Test Graph		Pass
16QAM	707.5	25	0	Refer To Test Graph		Pass

3.1.4 B12_10MHz

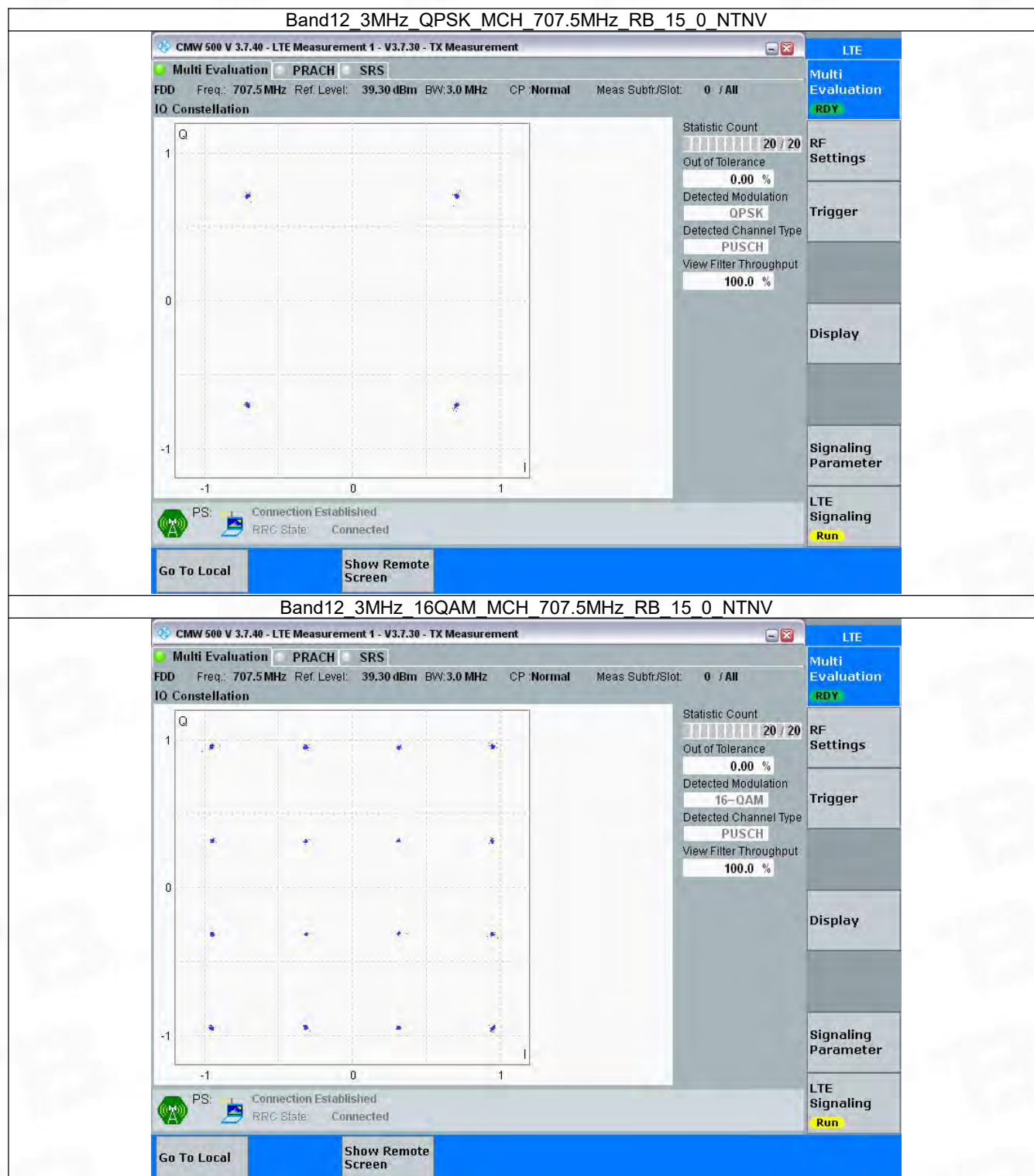
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	Refer To Test Graph		Pass
16QAM	707.5	50	0	Refer To Test Graph		Pass

3.2 Test Graph

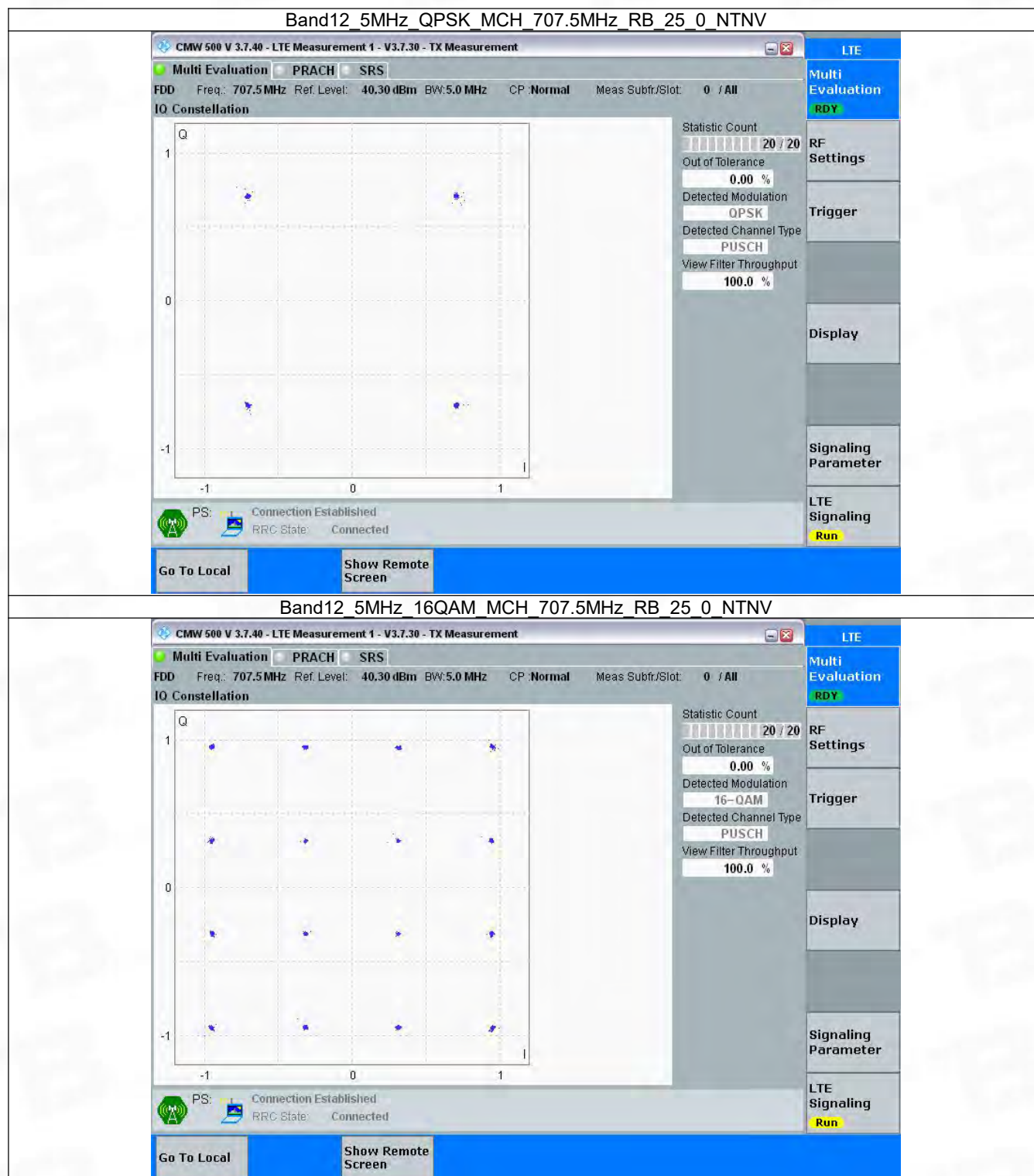
3.2.1 B12_1.4MHz



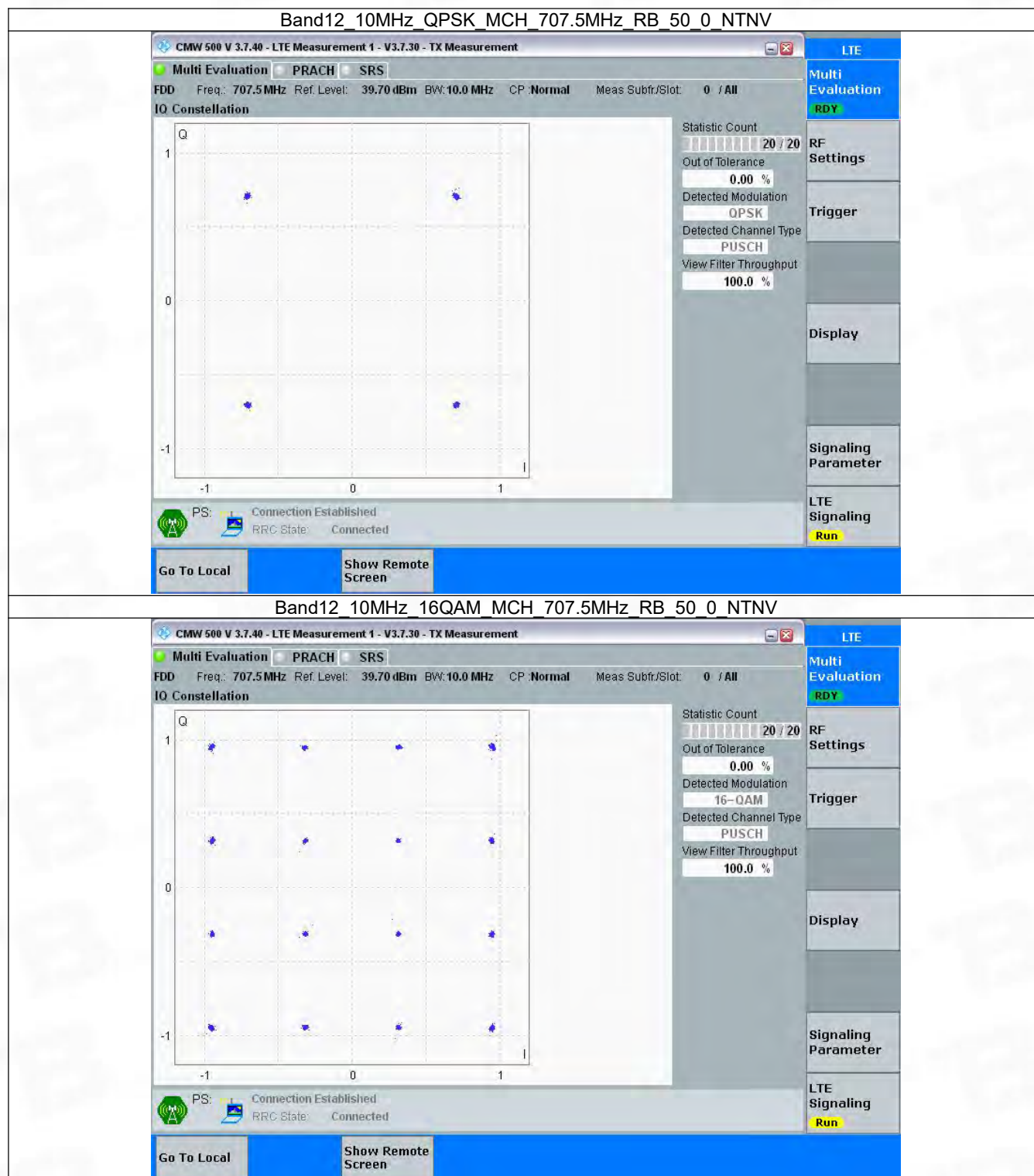
3.2.2 B12_3MHz



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	1.119	/	Pass
		707.5	6	0	1.108	/	Pass
		715.3	6	0	1.112	/	Pass
	16QAM	699.7	6	0	1.111	/	Pass
		707.5	6	0	1.104	/	Pass
		715.3	6	0	1.120	/	Pass
3	QPSK	700.5	15	0	2.759	/	Pass
		707.5	15	0	2.755	/	Pass
		714.5	15	0	2.757	/	Pass
	16QAM	700.5	15	0	2.757	/	Pass
		707.5	15	0	2.750	/	Pass
		714.5	15	0	2.750	/	Pass
5	QPSK	701.5	25	0	4.535	/	Pass
		707.5	25	0	4.550	/	Pass
		713.5	25	0	4.554	/	Pass
	16QAM	701.5	25	0	4.552	/	Pass
		707.5	25	0	4.570	/	Pass
		713.5	25	0	4.531	/	Pass
10	QPSK	704	50	0	9.095	/	Pass
		707.5	50	0	9.080	/	Pass
		711	50	0	9.069	/	Pass
	16QAM	704	50	0	9.083	/	Pass
		707.5	50	0	9.087	/	Pass
		711	50	0	9.056	/	Pass

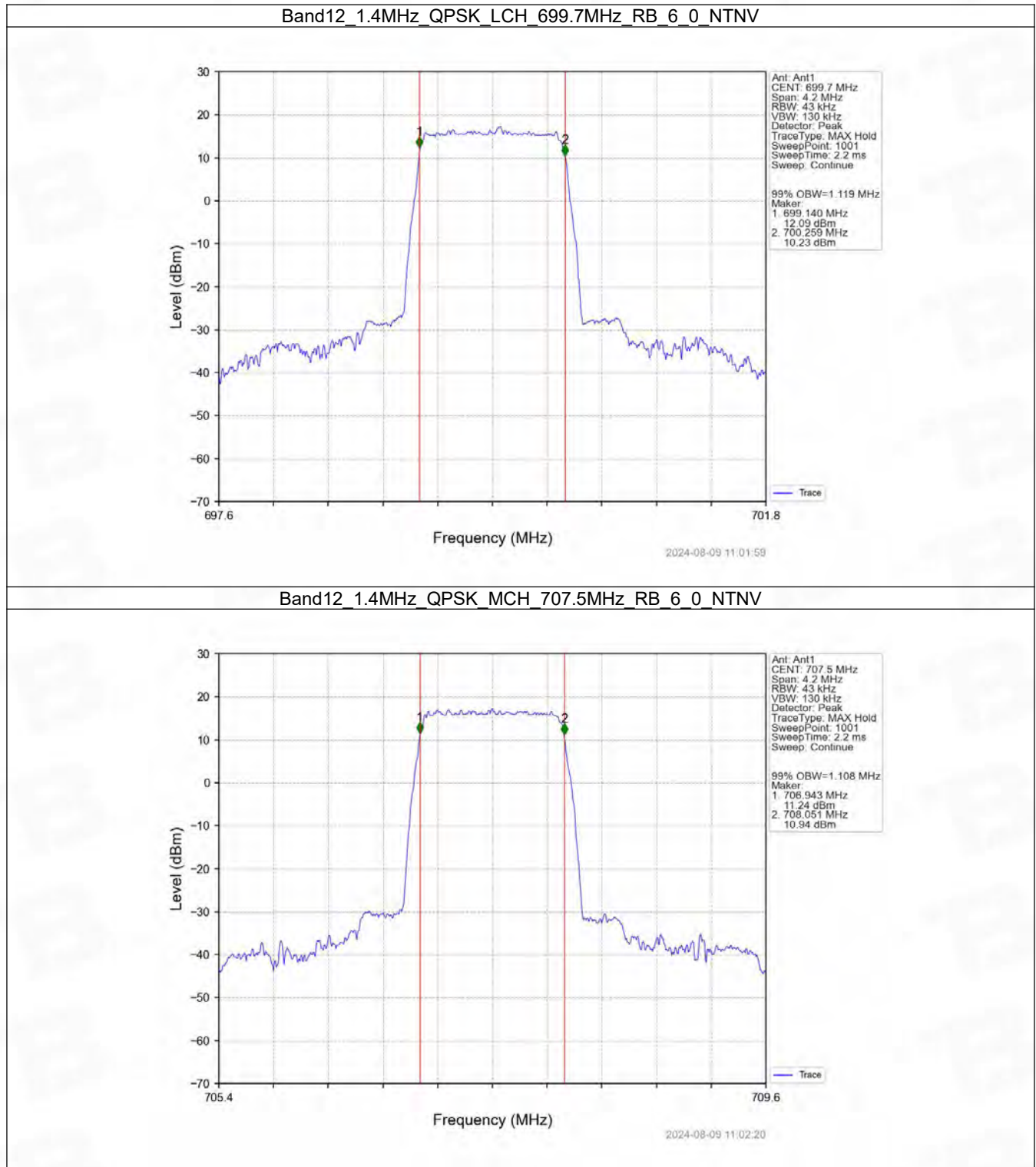
4.1.2 Band12_XDB

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	1.267	/	Pass
		707.5	6	0	1.271	/	Pass
		715.3	6	0	1.269	/	Pass
	16QAM	699.7	6	0	1.278	/	Pass
		707.5	6	0	1.270	/	Pass
		715.3	6	0	1.259	/	Pass
3	QPSK	700.5	15	0	3.094	/	Pass
		707.5	15	0	3.091	/	Pass
		714.5	15	0	3.106	/	Pass
	16QAM	700.5	15	0	3.102	/	Pass
		707.5	15	0	3.120	/	Pass
		714.5	15	0	3.098	/	Pass
5	QPSK	701.5	25	0	5.016	/	Pass
		707.5	25	0	5.064	/	Pass
		713.5	25	0	5.048	/	Pass

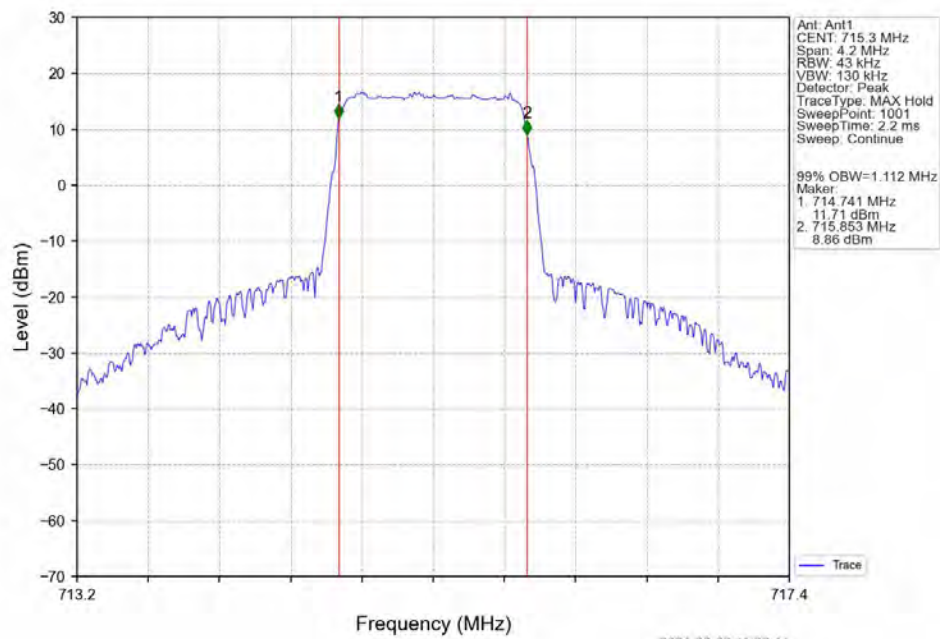
10	16QAM	701.5	25	0	5.040	/	Pass
		707.5	25	0	5.094	/	Pass
		713.5	25	0	5.049	/	Pass
	QPSK	704	50	0	10.006	/	Pass
		707.5	50	0	10.065	/	Pass
		711	50	0	9.971	/	Pass
	16QAM	704	50	0	10.087	/	Pass
		707.5	50	0	10.104	/	Pass
		711	50	0	10.023	/	Pass

4.2 Test Graph

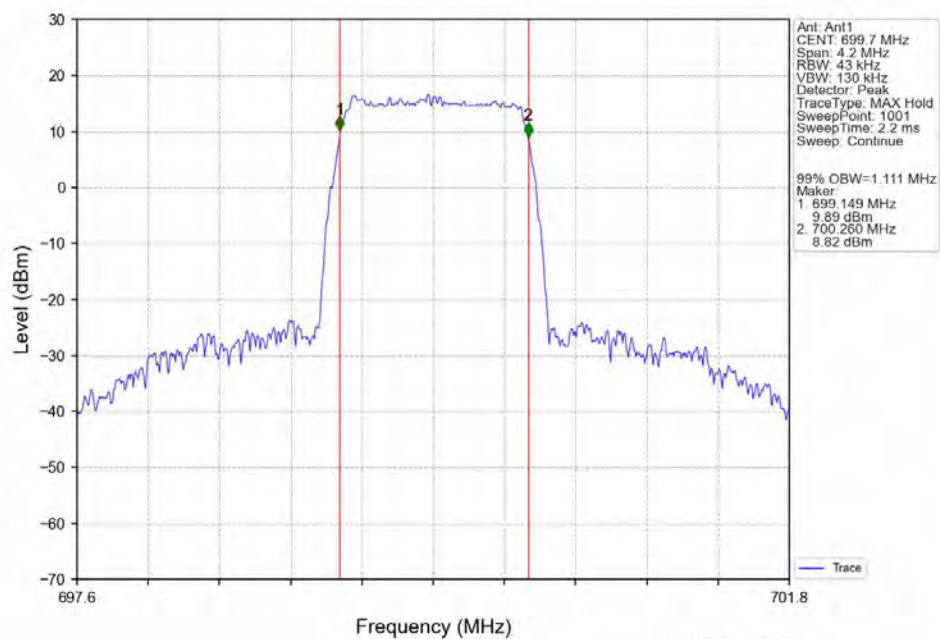
4.2.1 Band12_OBW



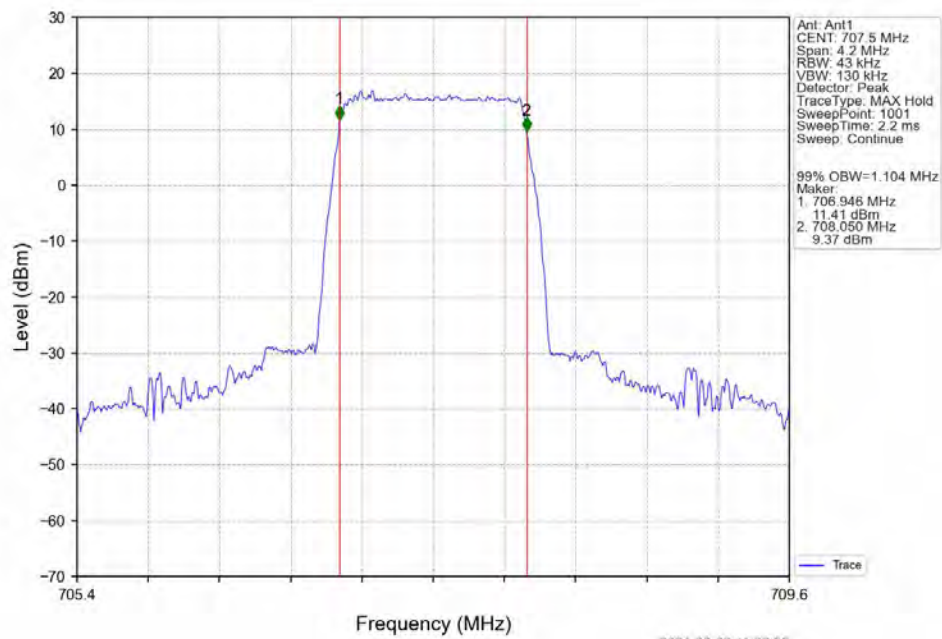
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



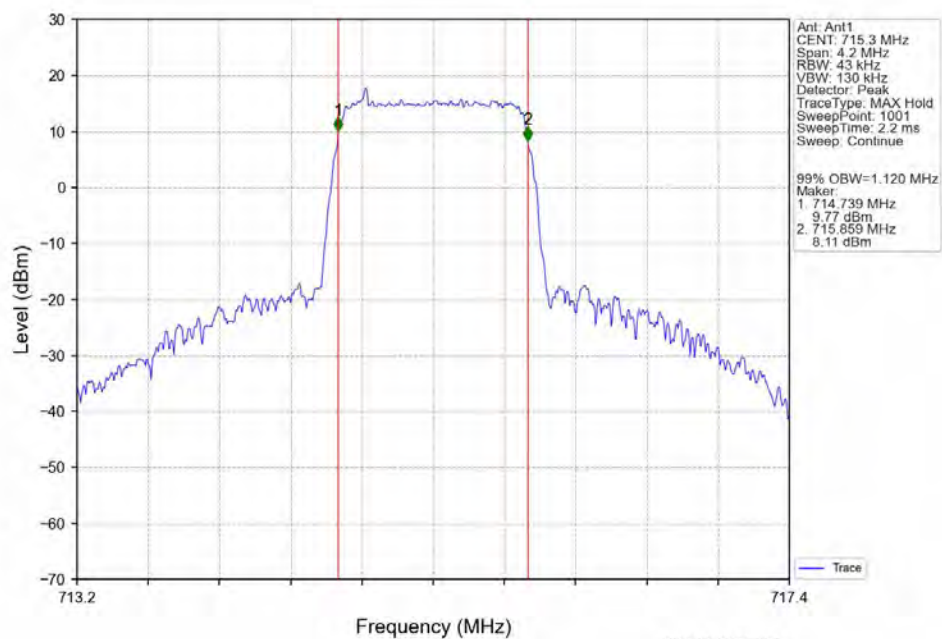
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



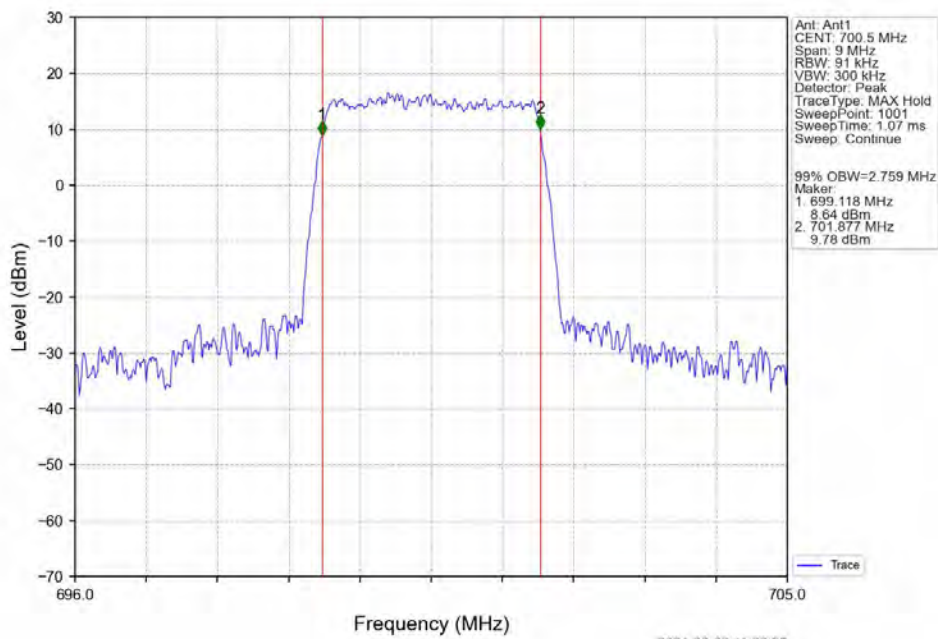
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



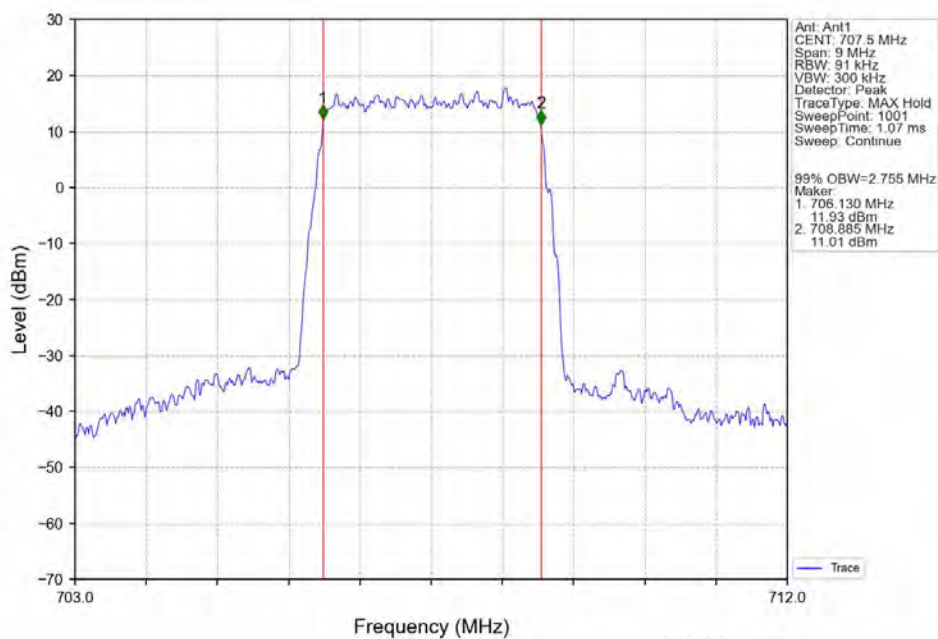
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



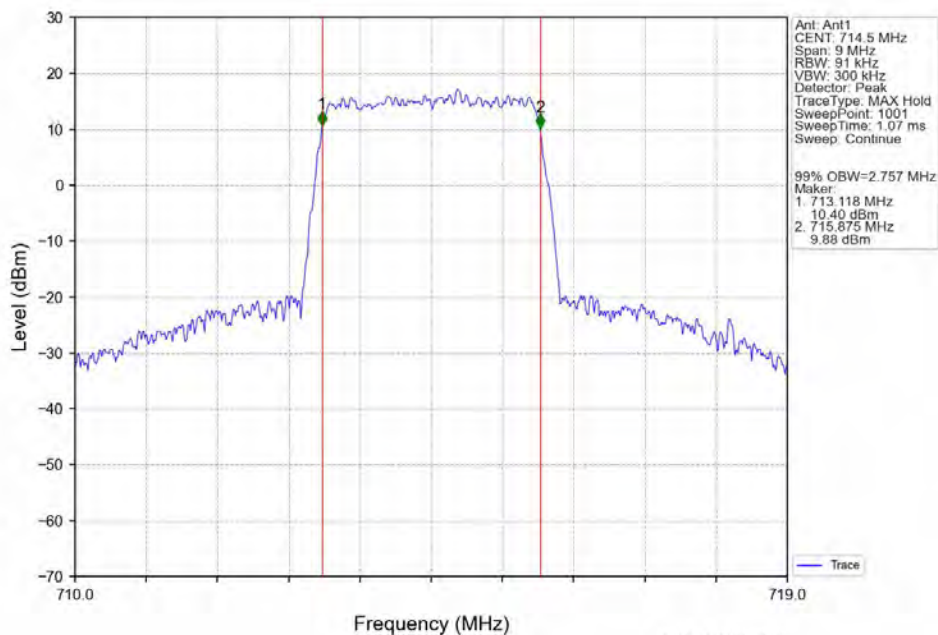
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



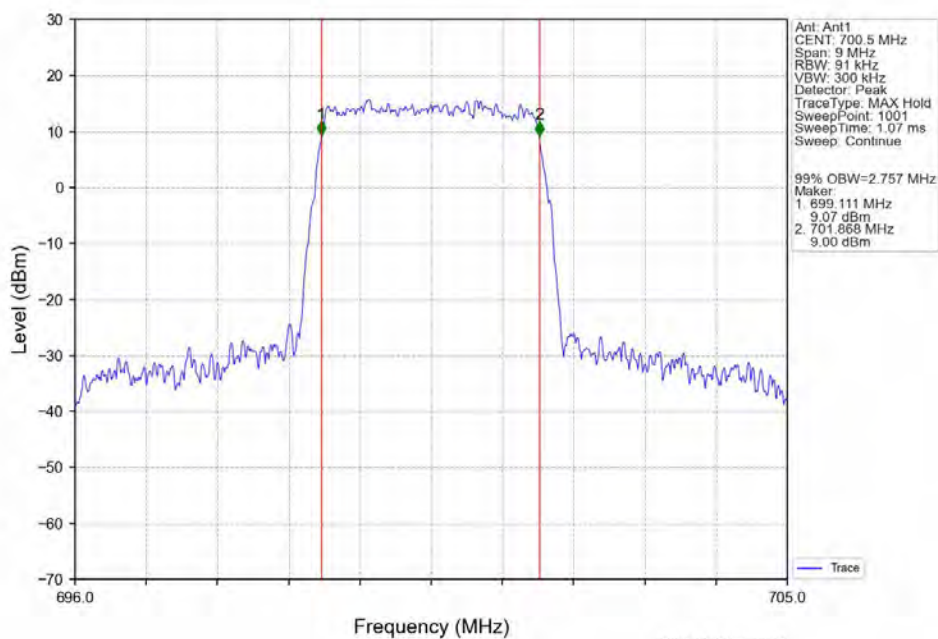
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



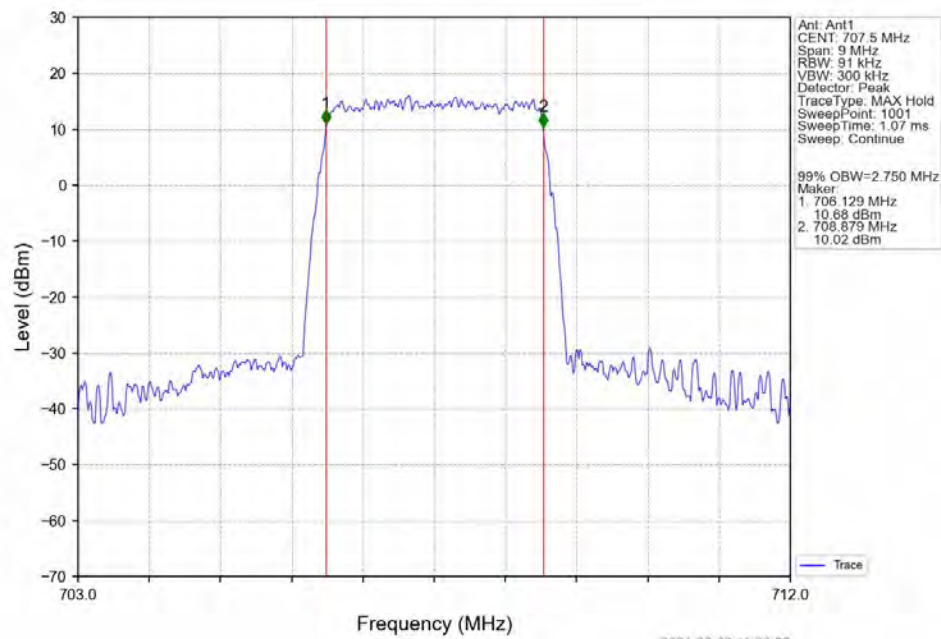
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



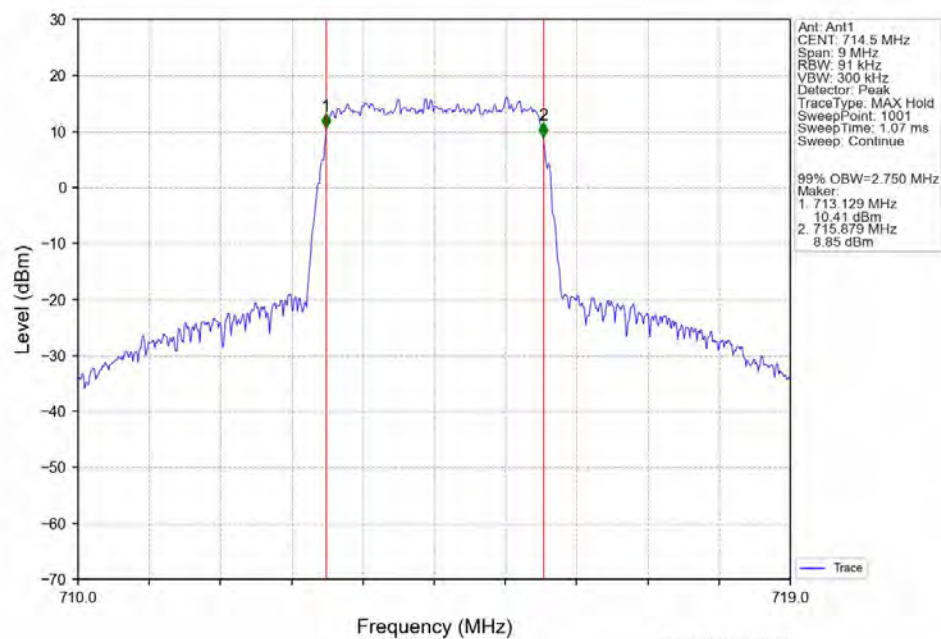
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



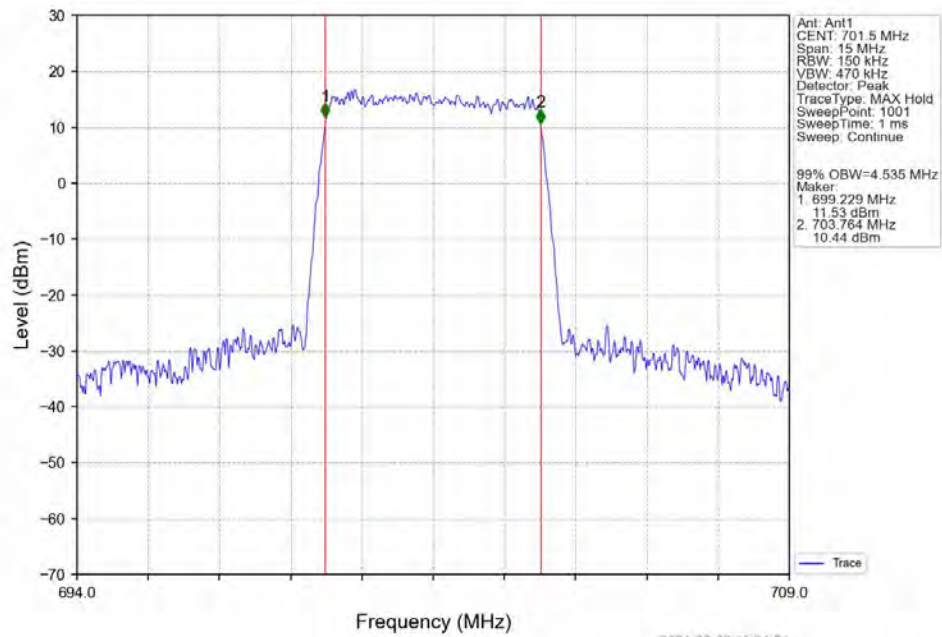
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



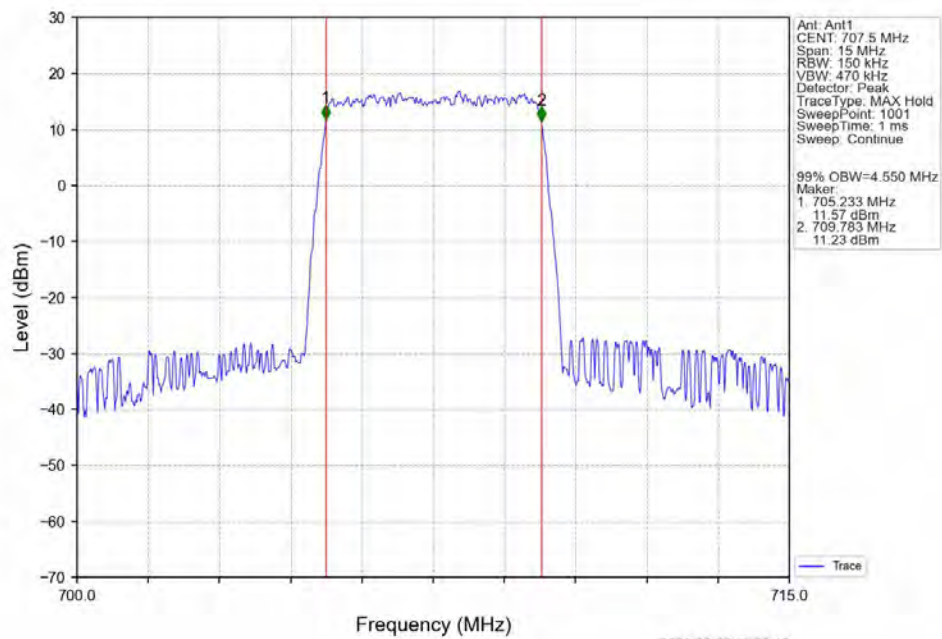
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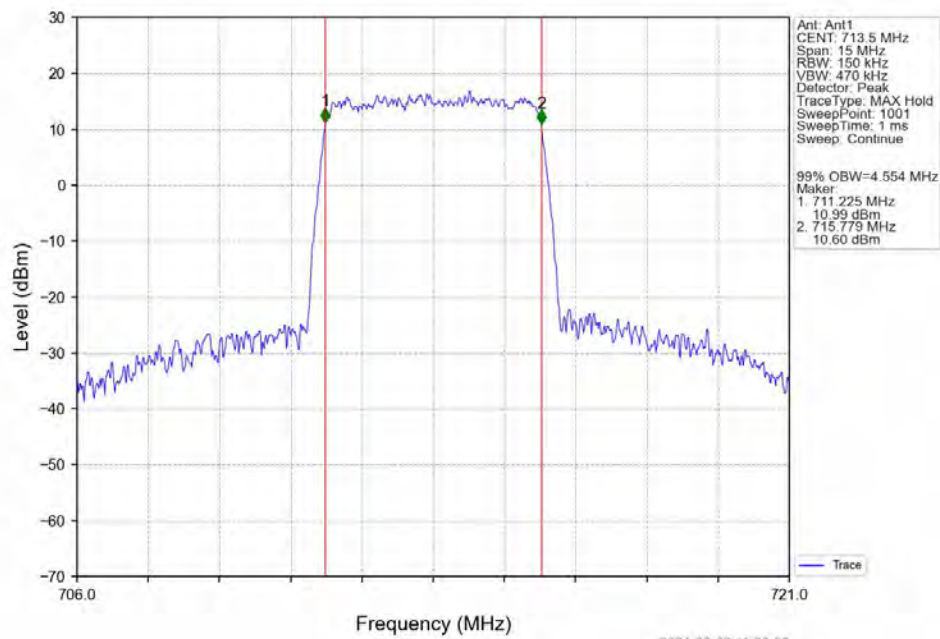
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



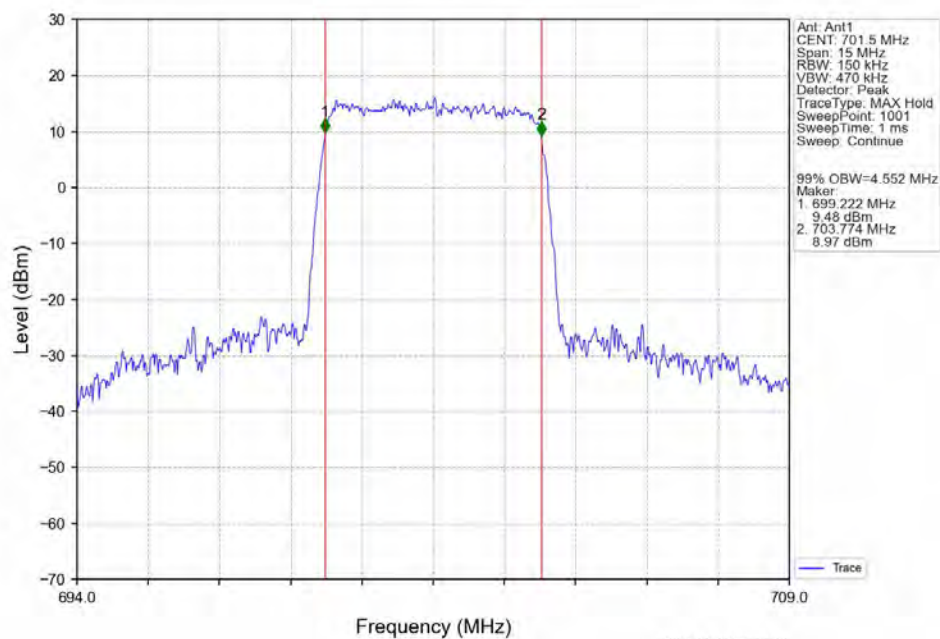
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



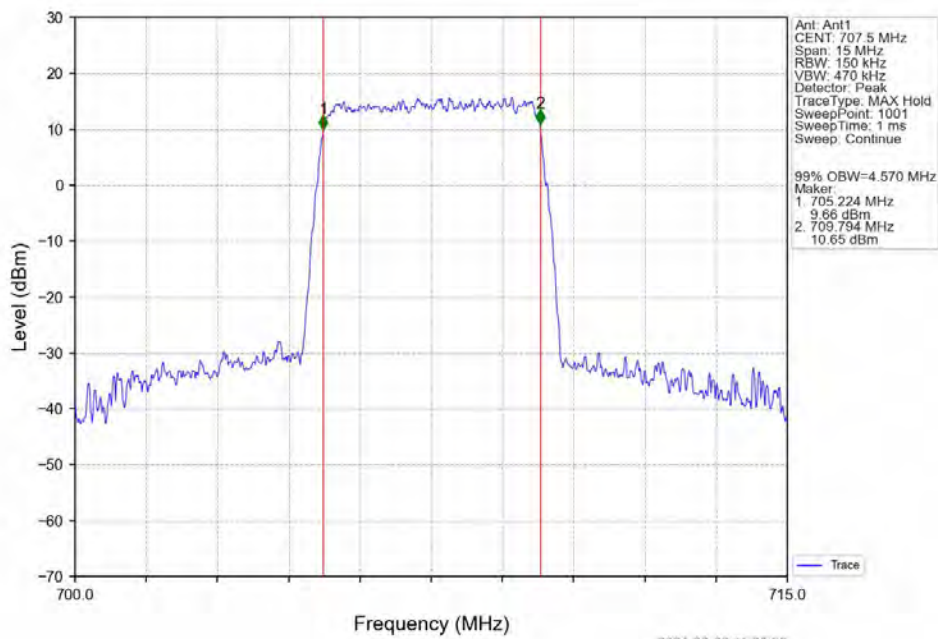
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



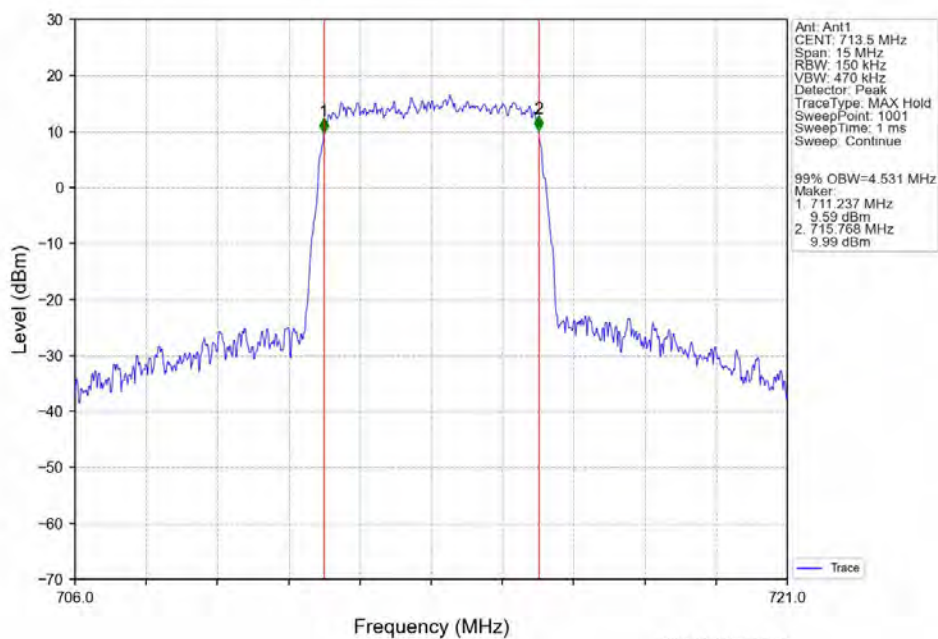
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



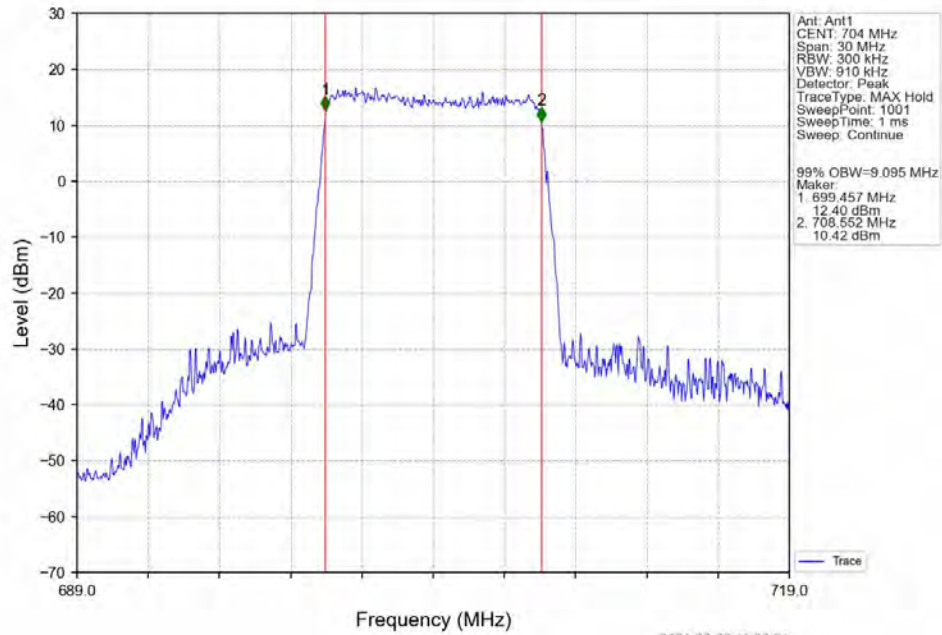
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



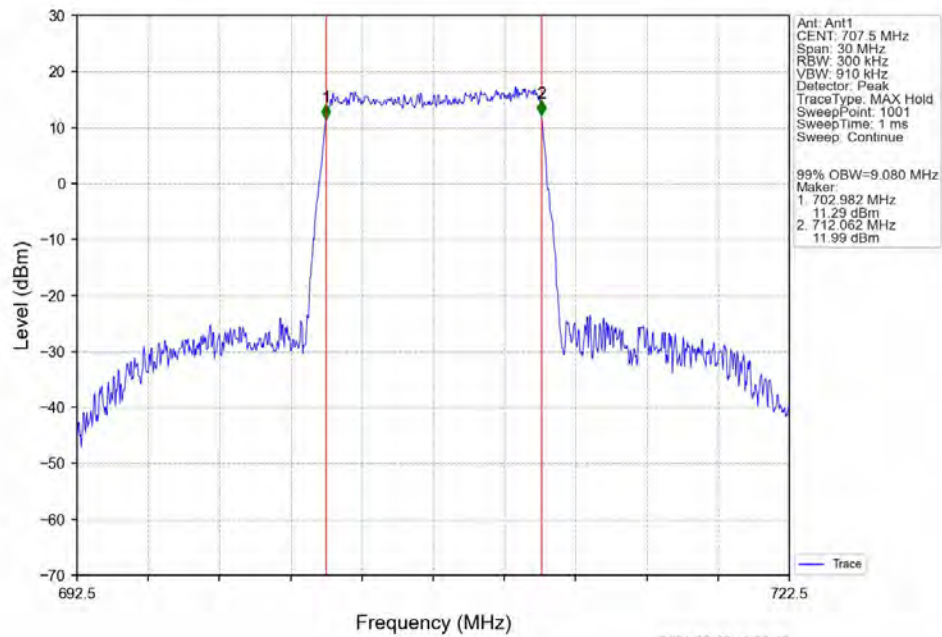
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



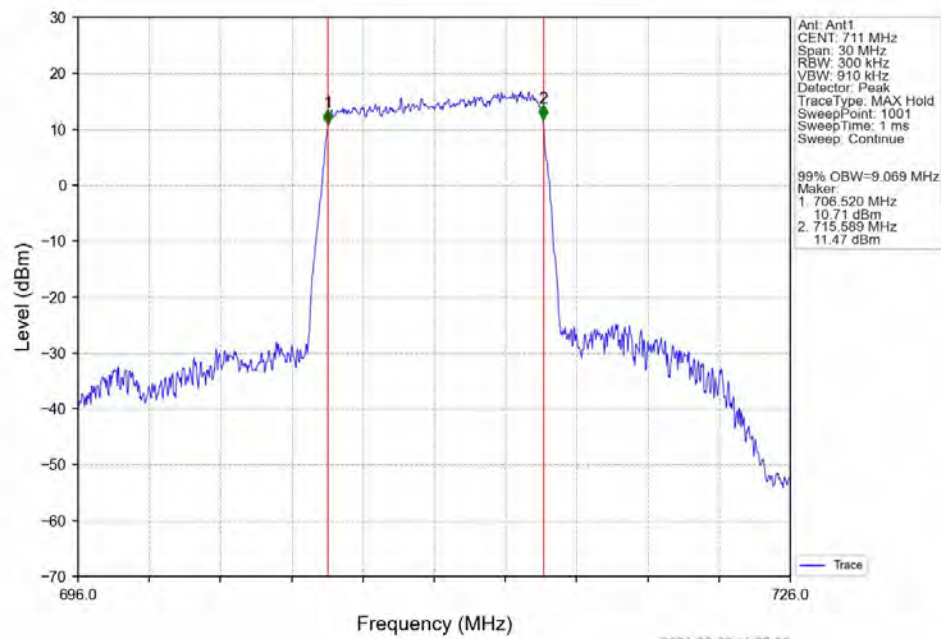
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



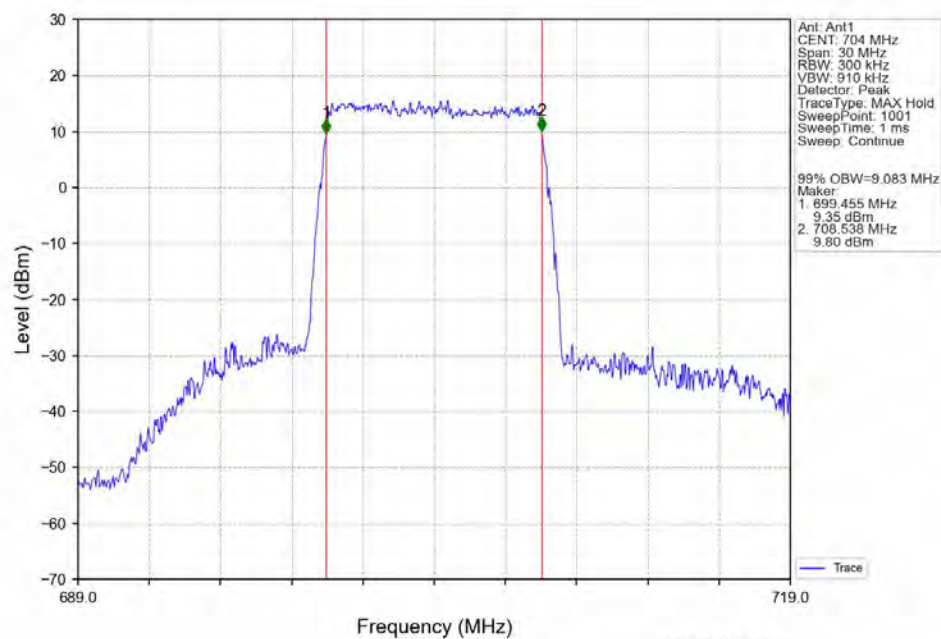
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



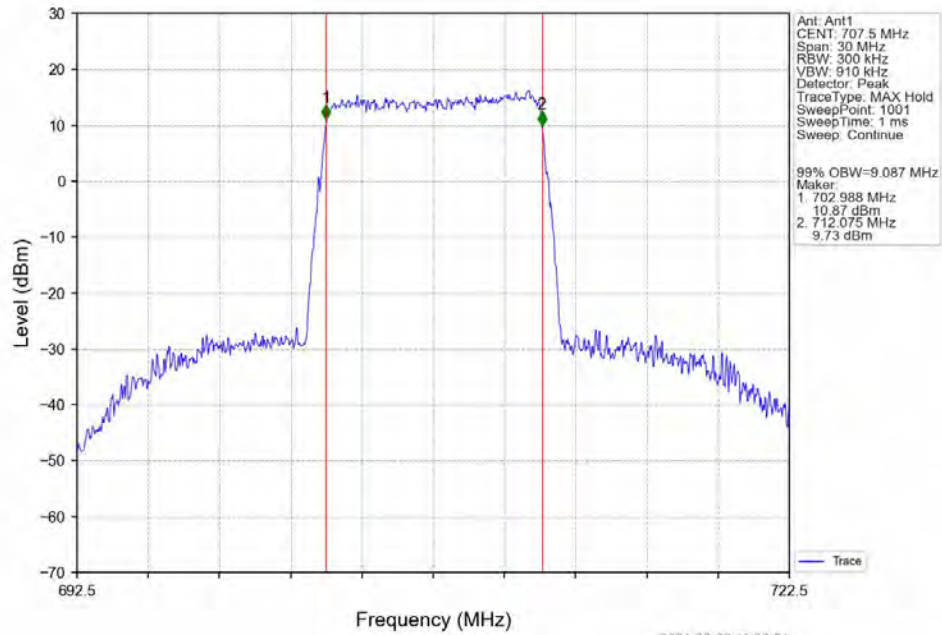
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



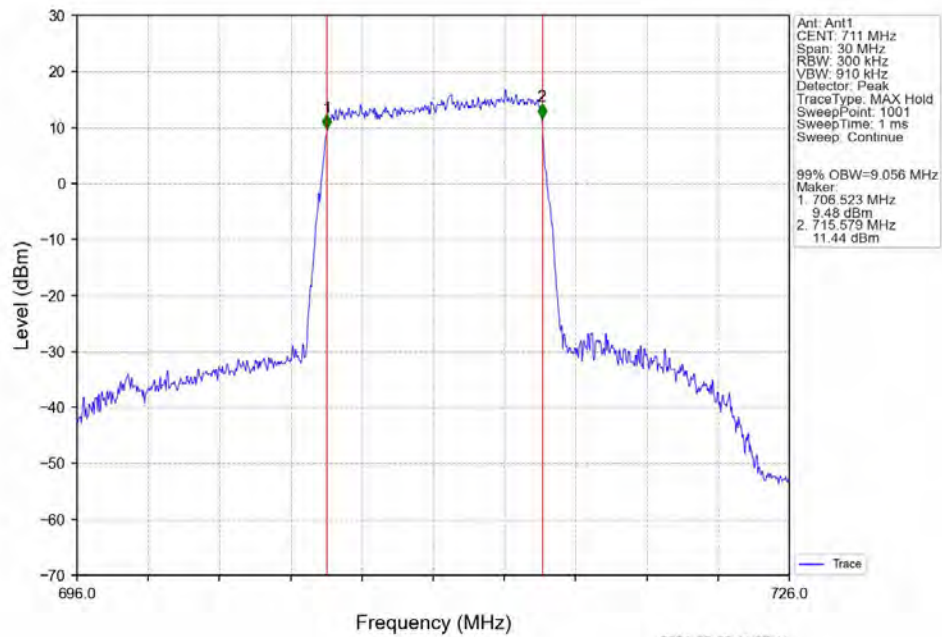
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



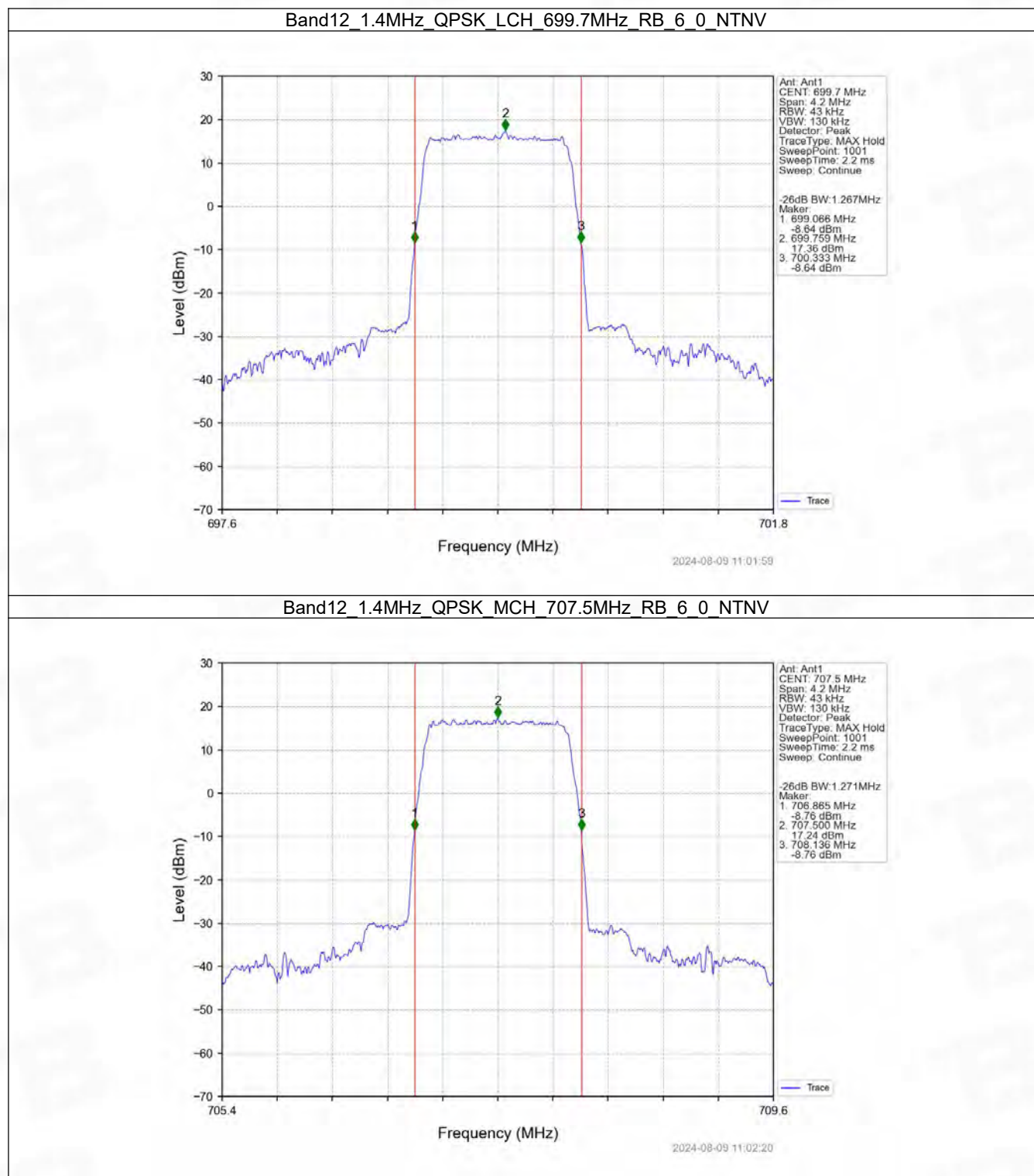
Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



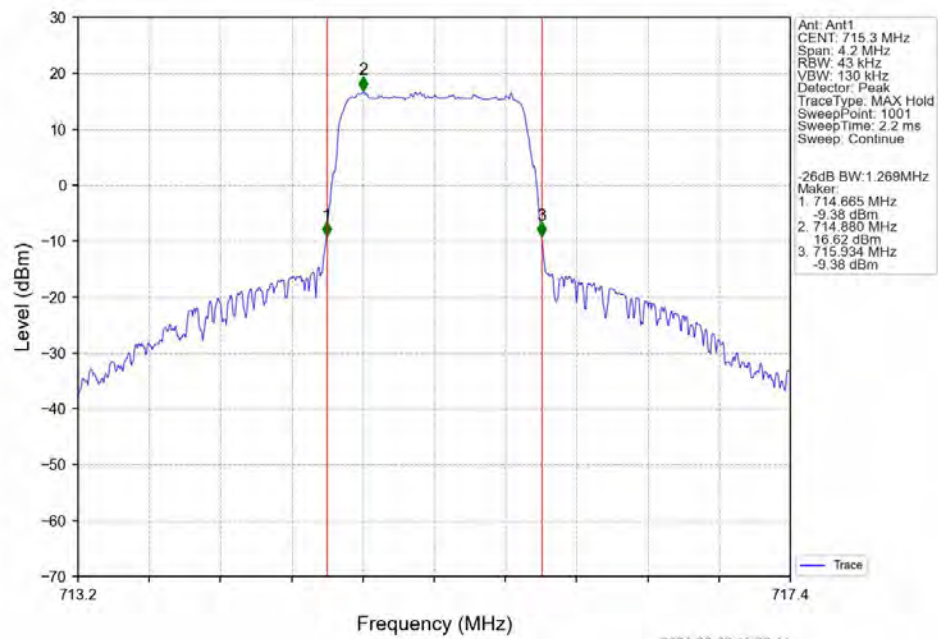
Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



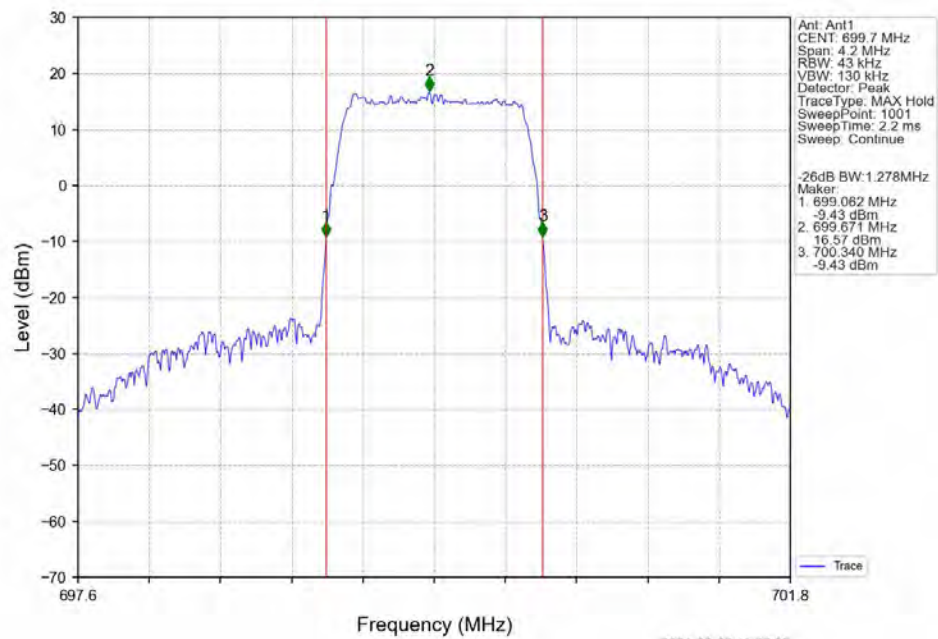
4.2.2 Band12_XDB



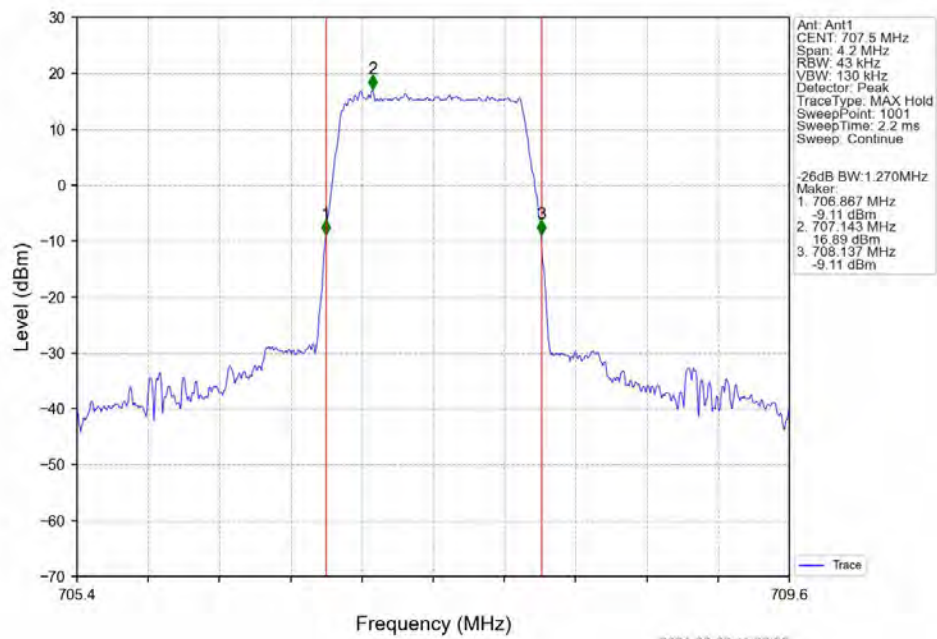
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



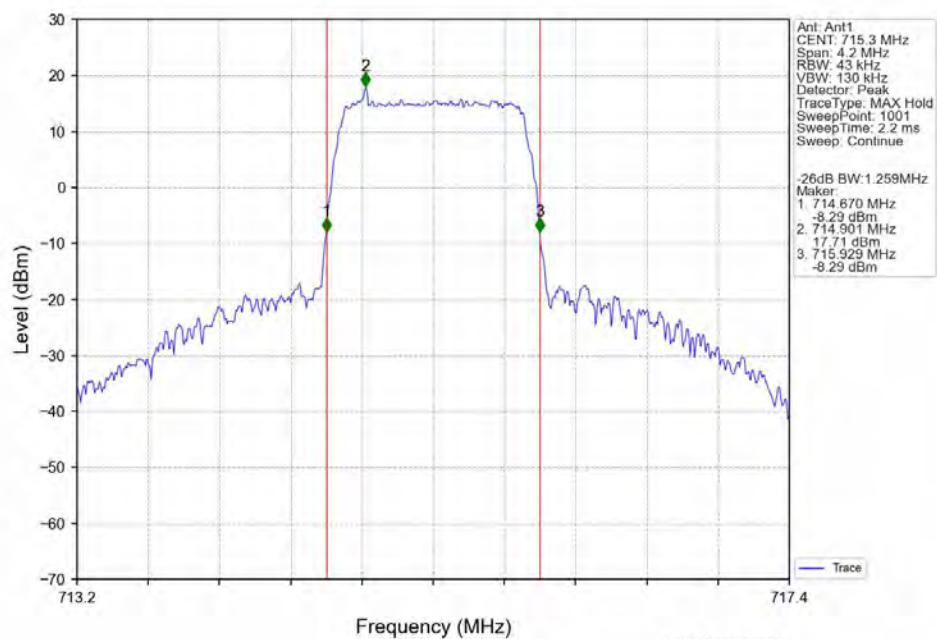
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



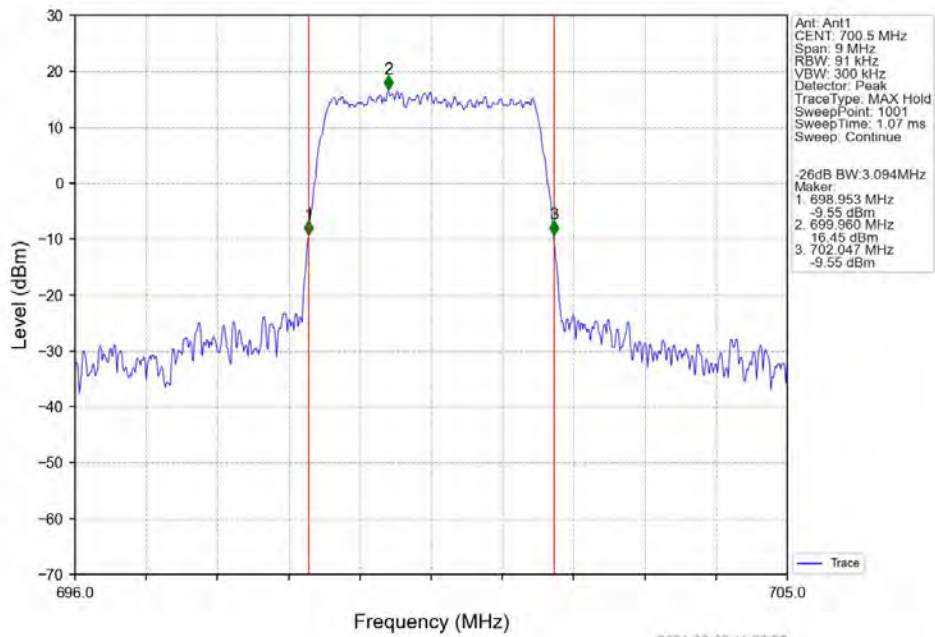
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV

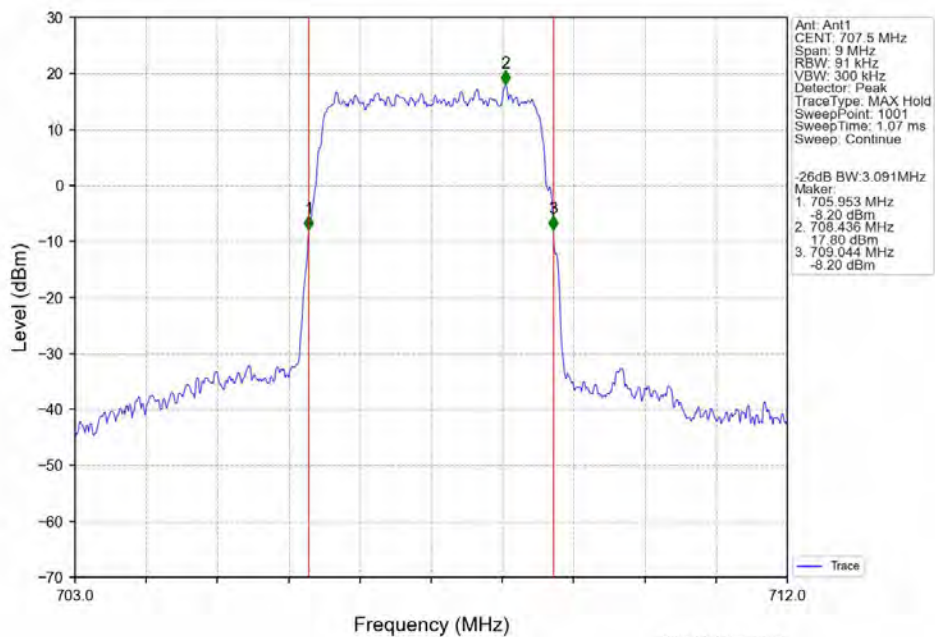


Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



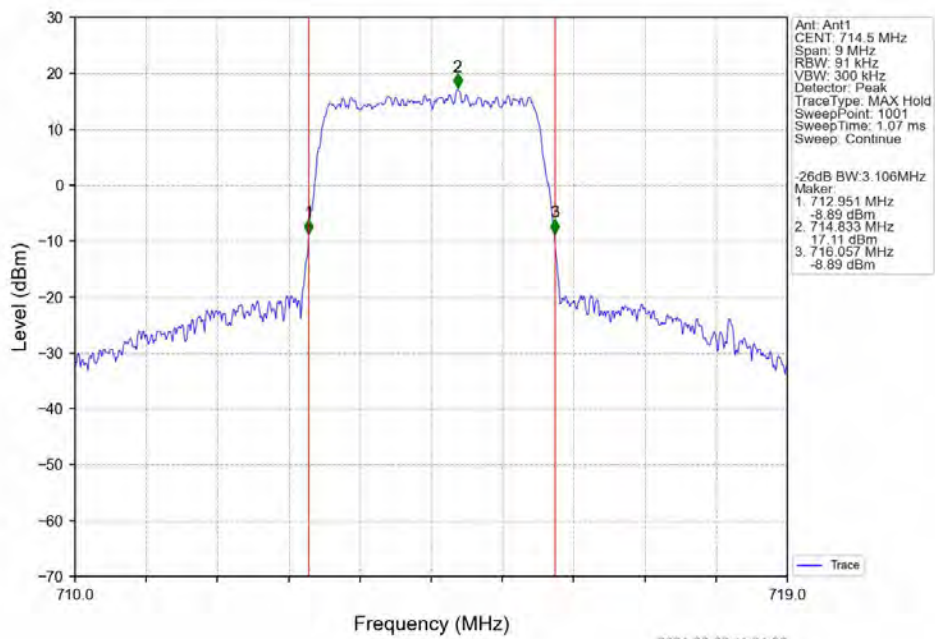
2024-08-09 11:03:25

Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV

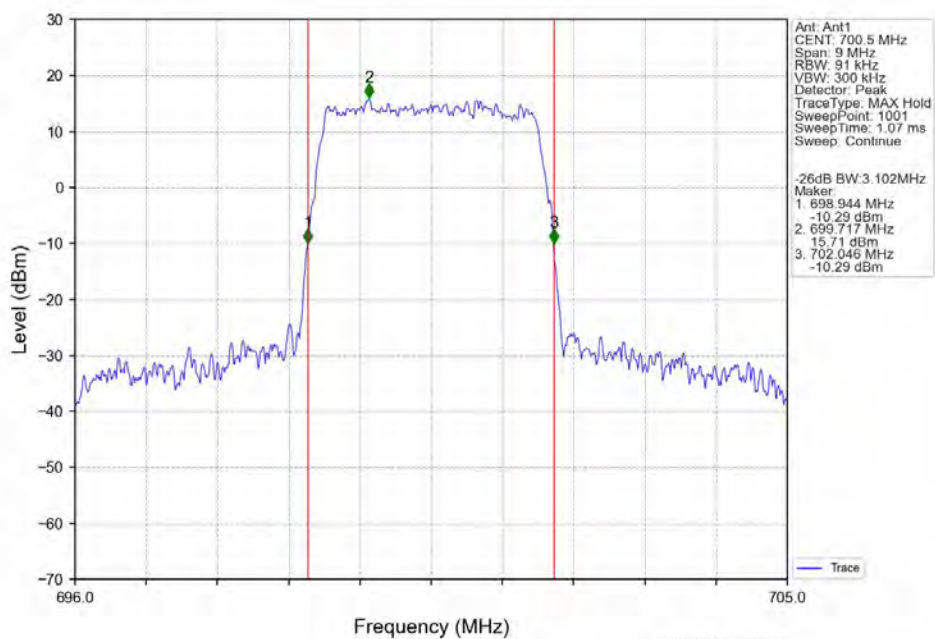


2024-08-09 11:03:46

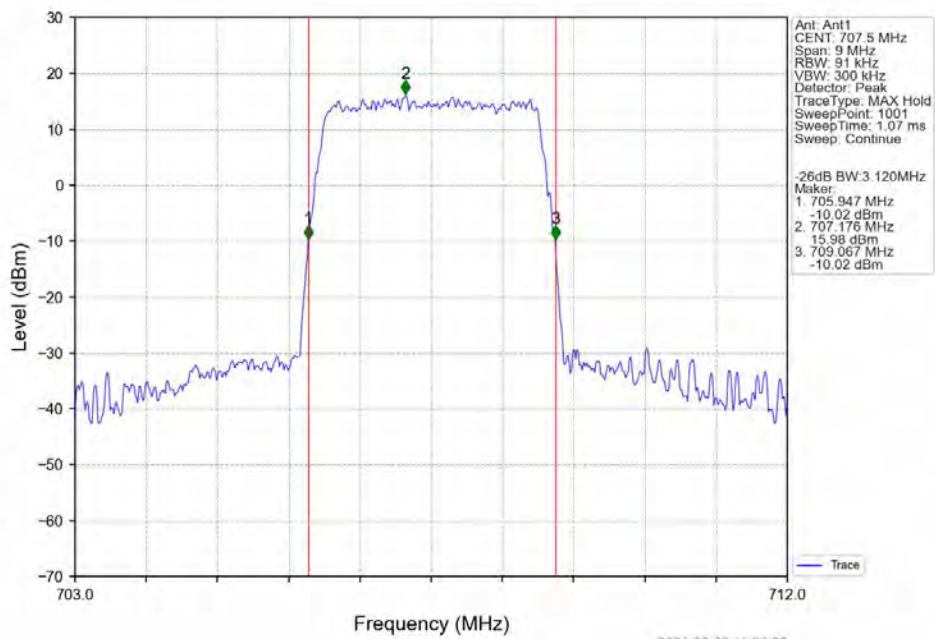
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



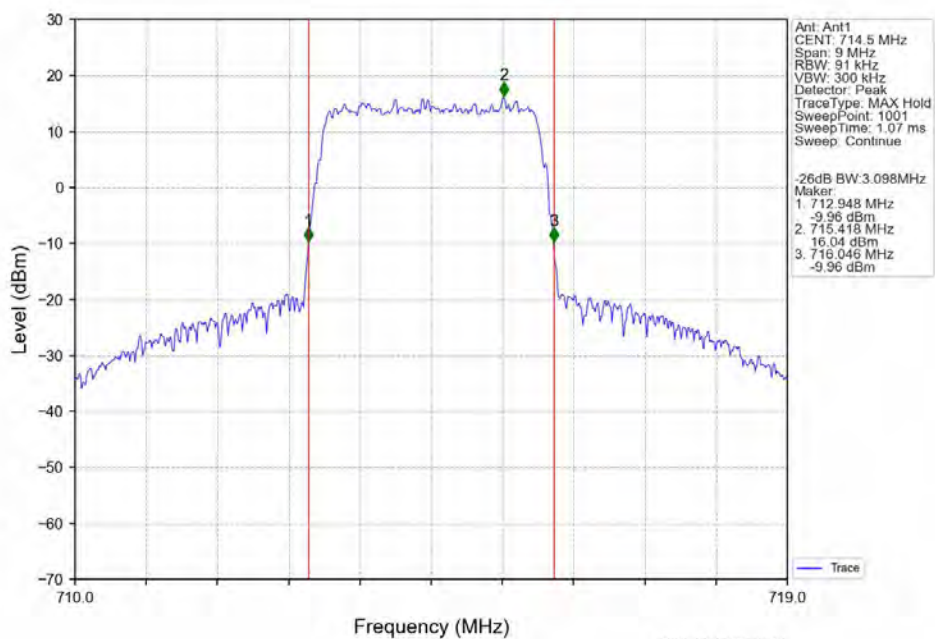
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



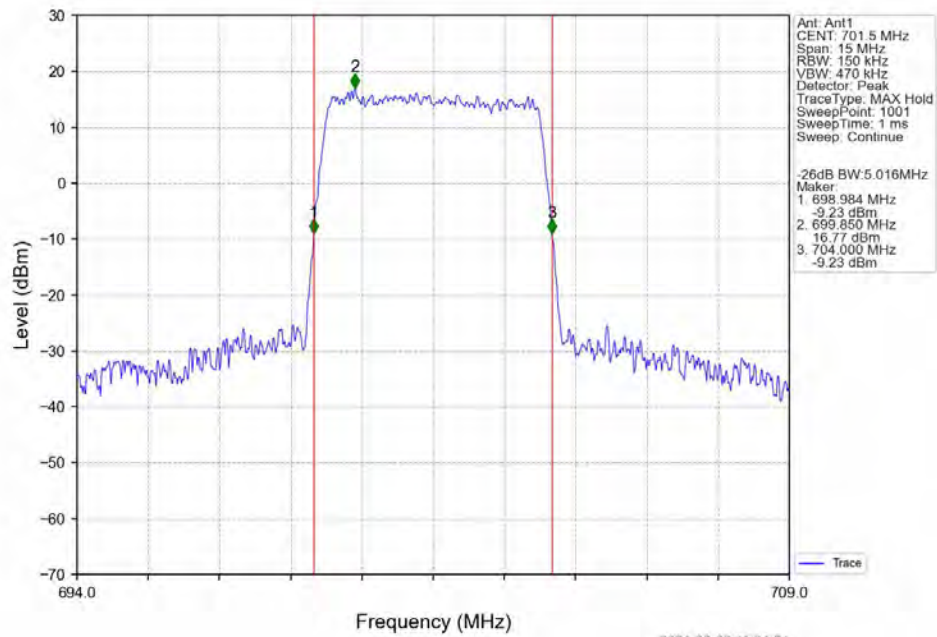
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



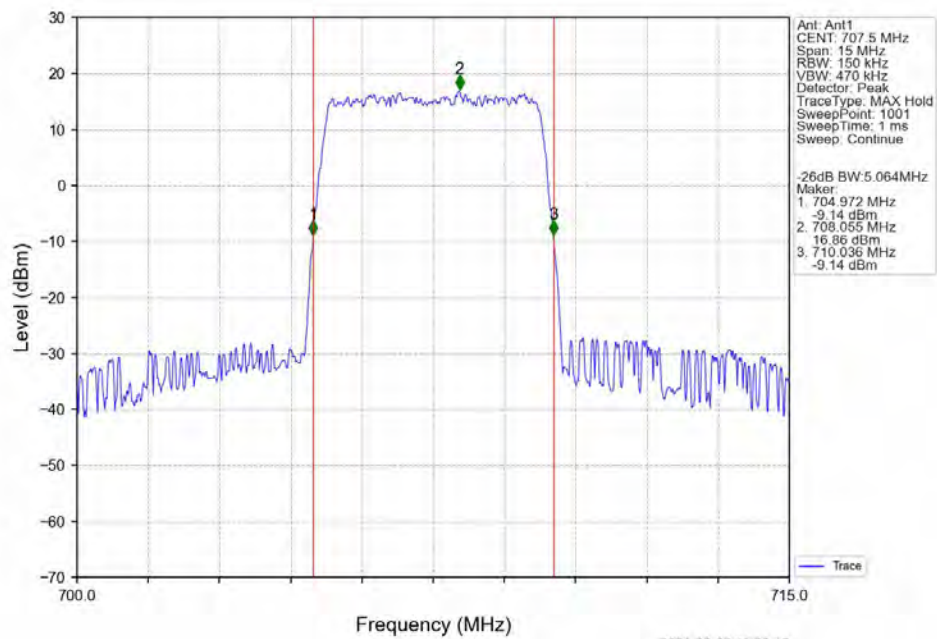
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



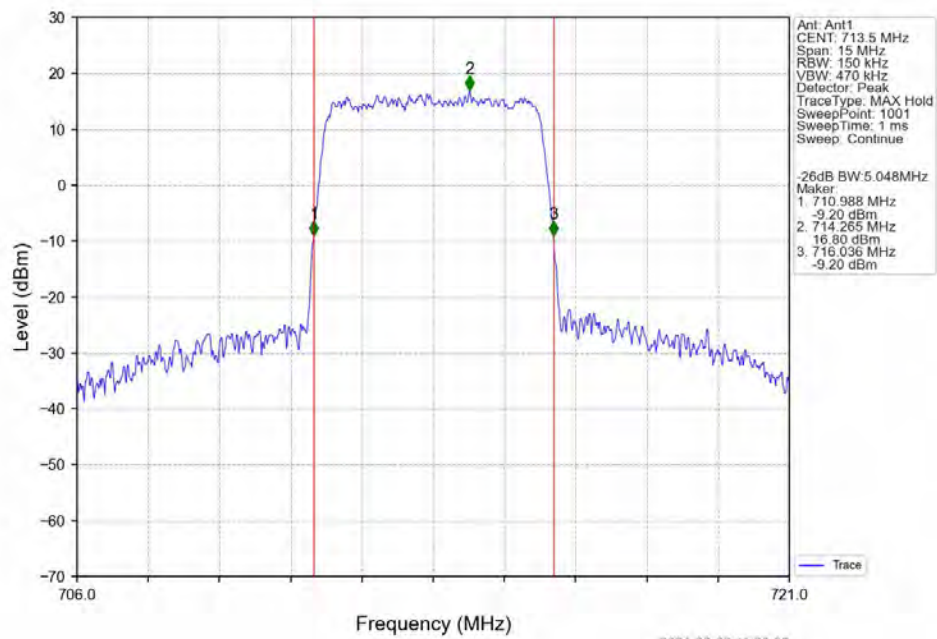
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



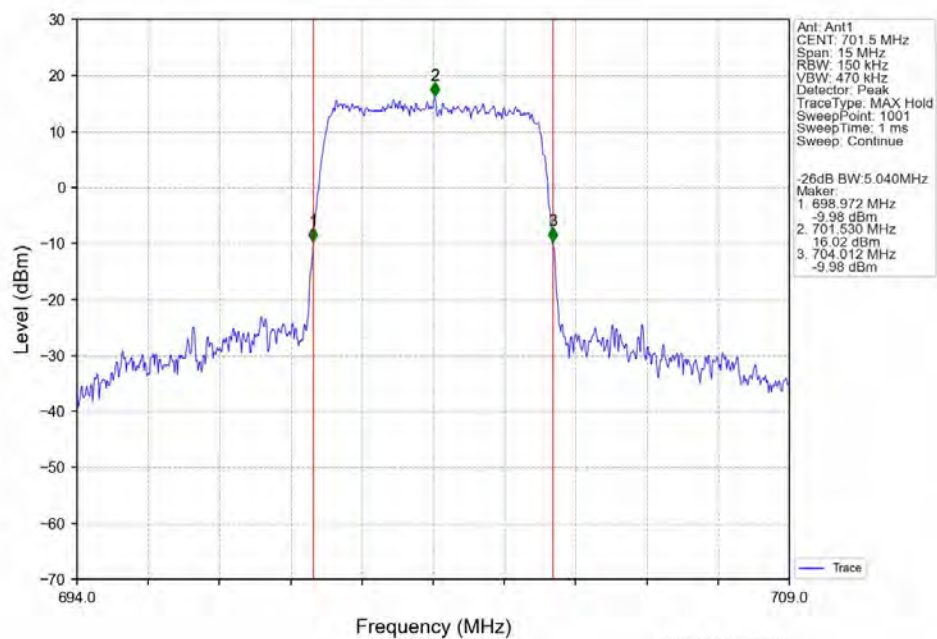
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



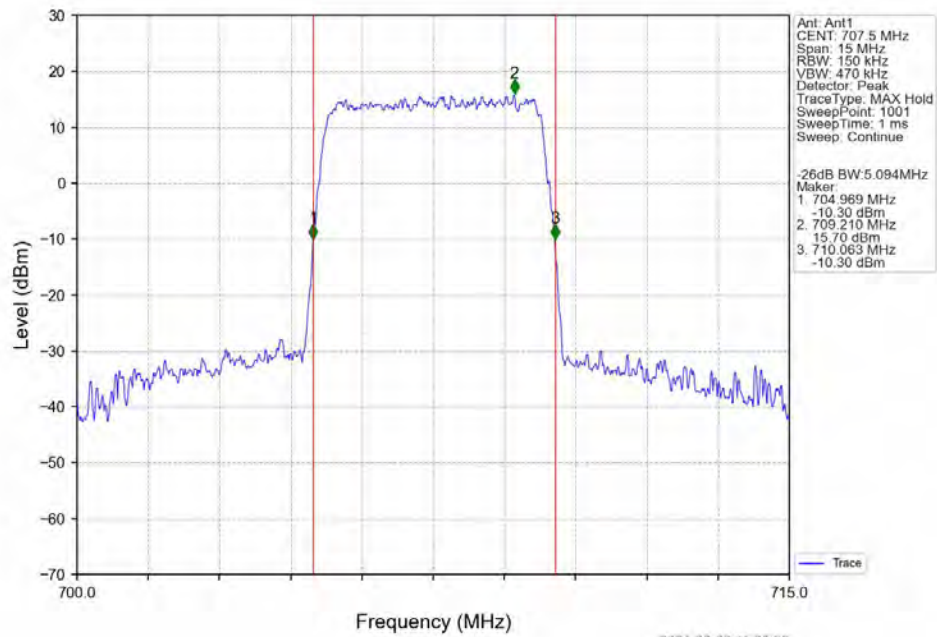
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



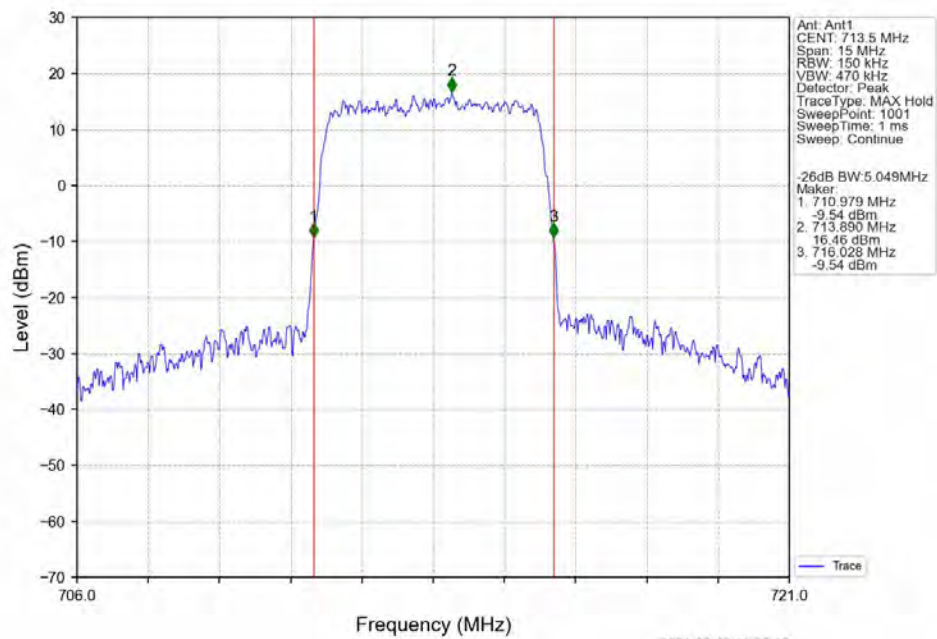
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



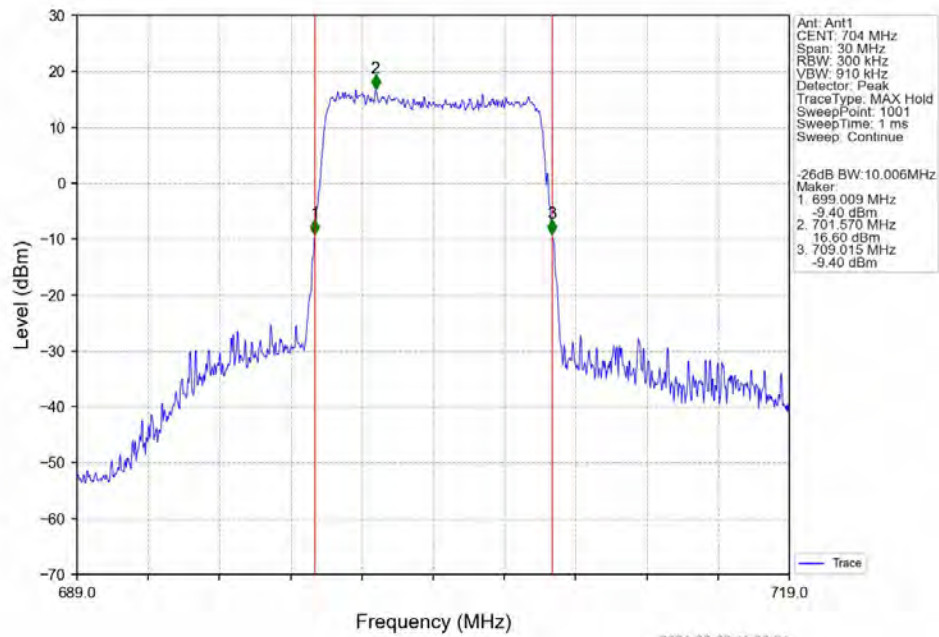
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



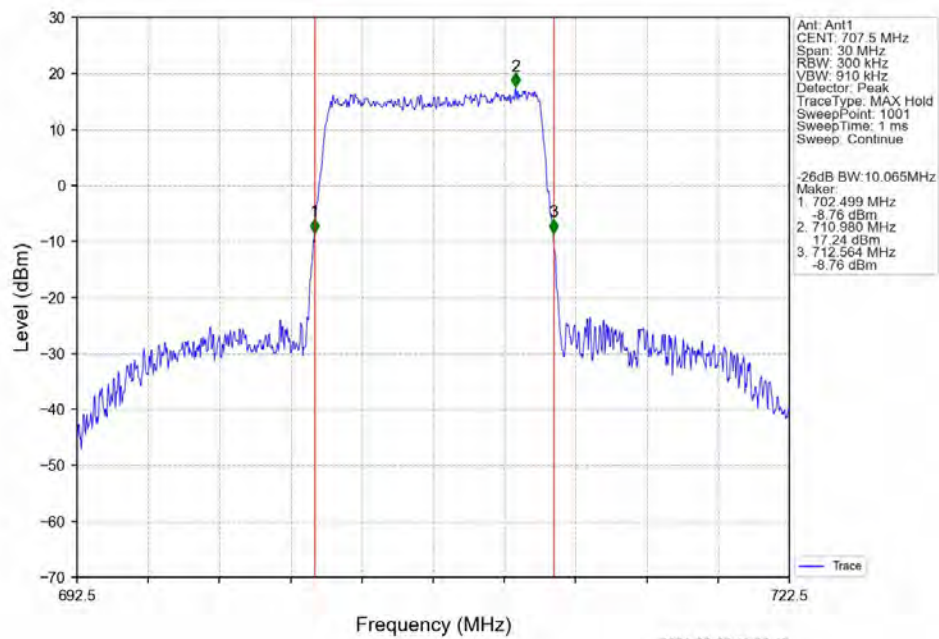
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



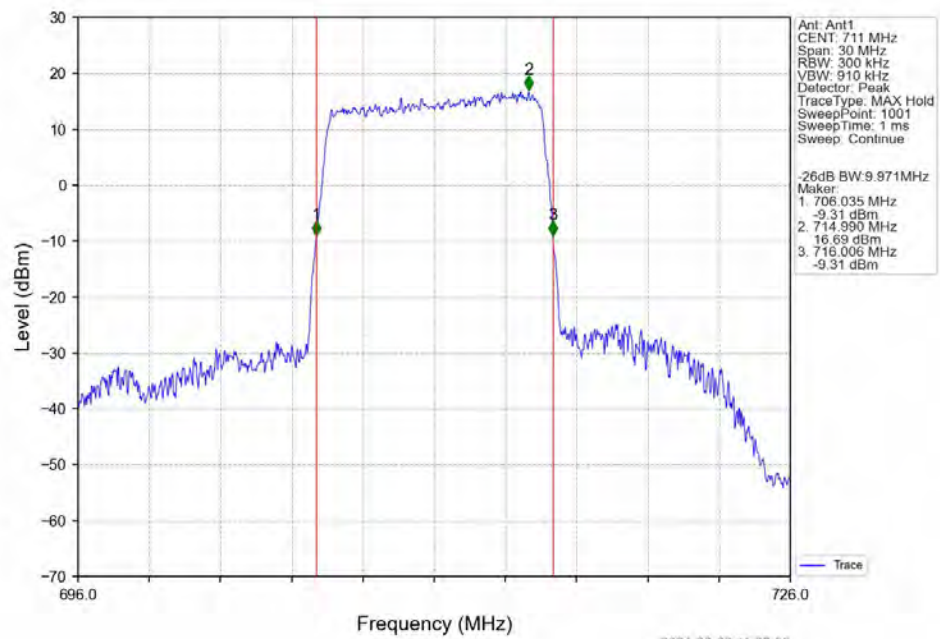
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



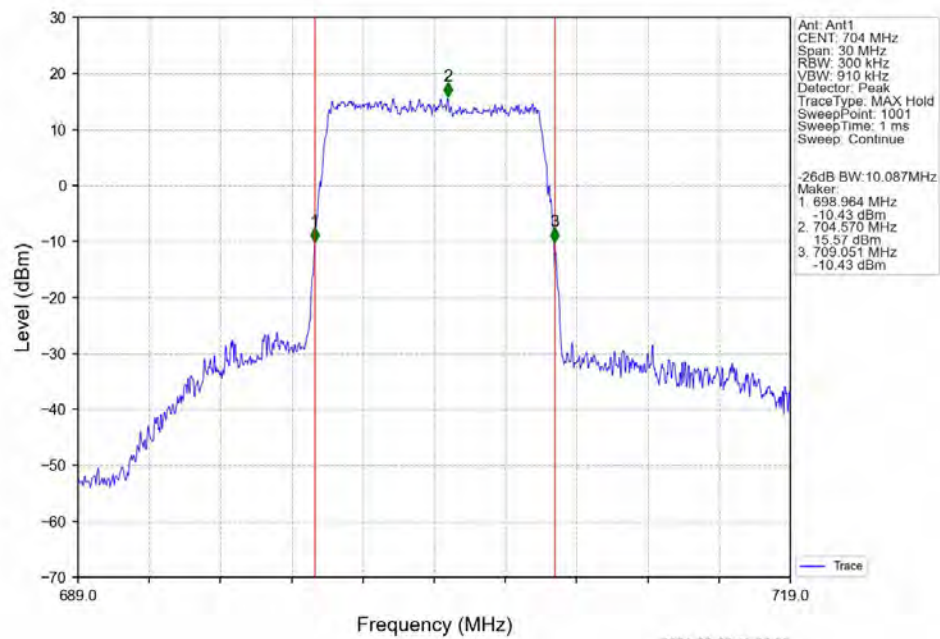
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



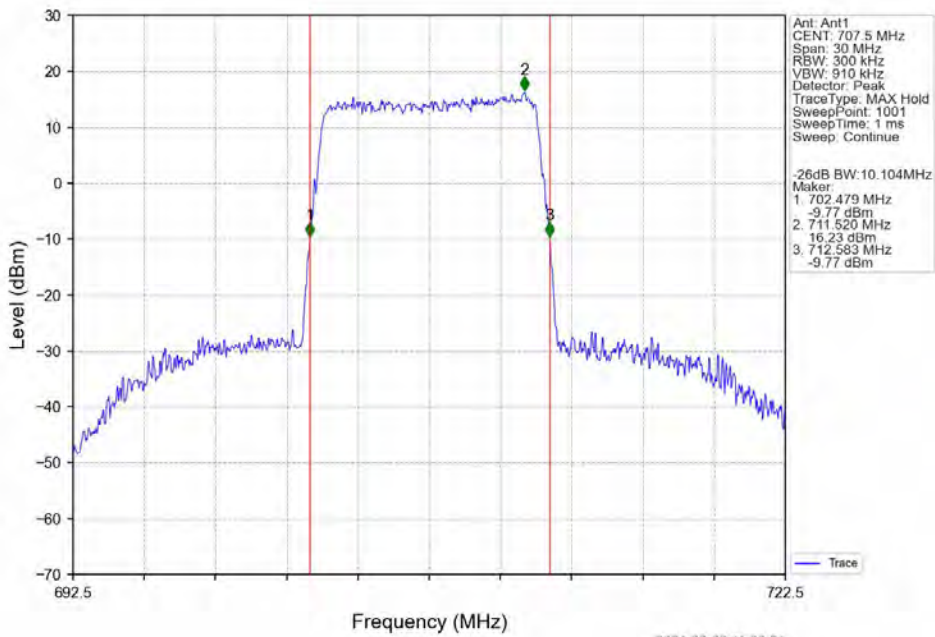
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



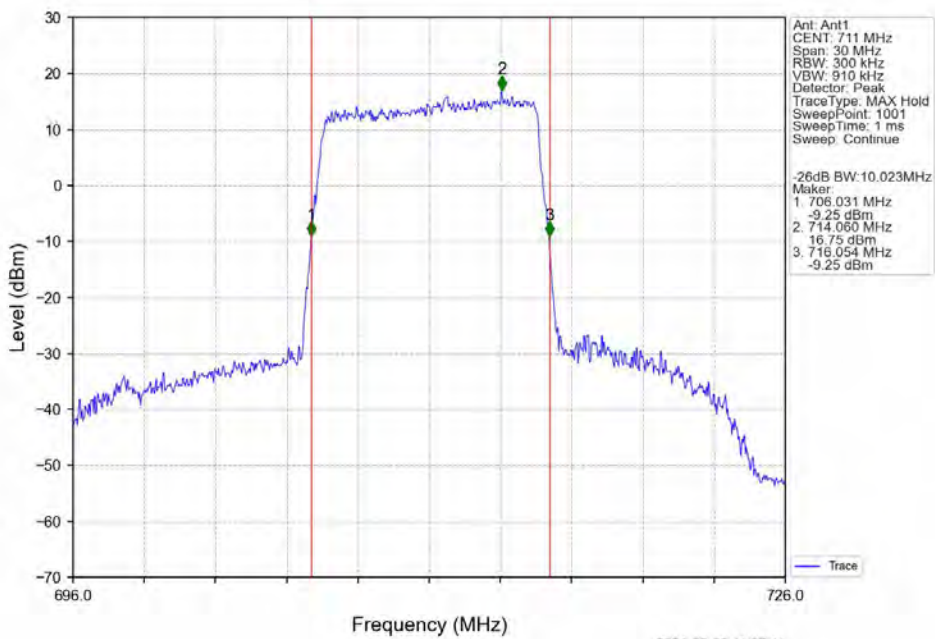
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



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 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	5.66	<=13	Pass
	707.5	6	0	5.72	<=13	Pass
	715.3	6	0	4.93	<=13	Pass
16QAM	699.7	6	0	6.39	<=13	Pass
	707.5	6	0	6.61	<=13	Pass
	715.3	6	0	5.77	<=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	5.67	<=13	Pass
	707.5	15	0	5.70	<=13	Pass
	714.5	15	0	5.20	<=13	Pass
16QAM	700.5	15	0	6.46	<=13	Pass
	707.5	15	0	6.57	<=13	Pass
	714.5	15	0	6.03	<=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	5.63	<=13	Pass
	707.5	25	0	5.82	<=13	Pass
	713.5	25	0	5.52	<=13	Pass
16QAM	701.5	25	0	6.43	<=13	Pass
	707.5	25	0	6.49	<=13	Pass
	713.5	25	0	6.22	<=13	Pass

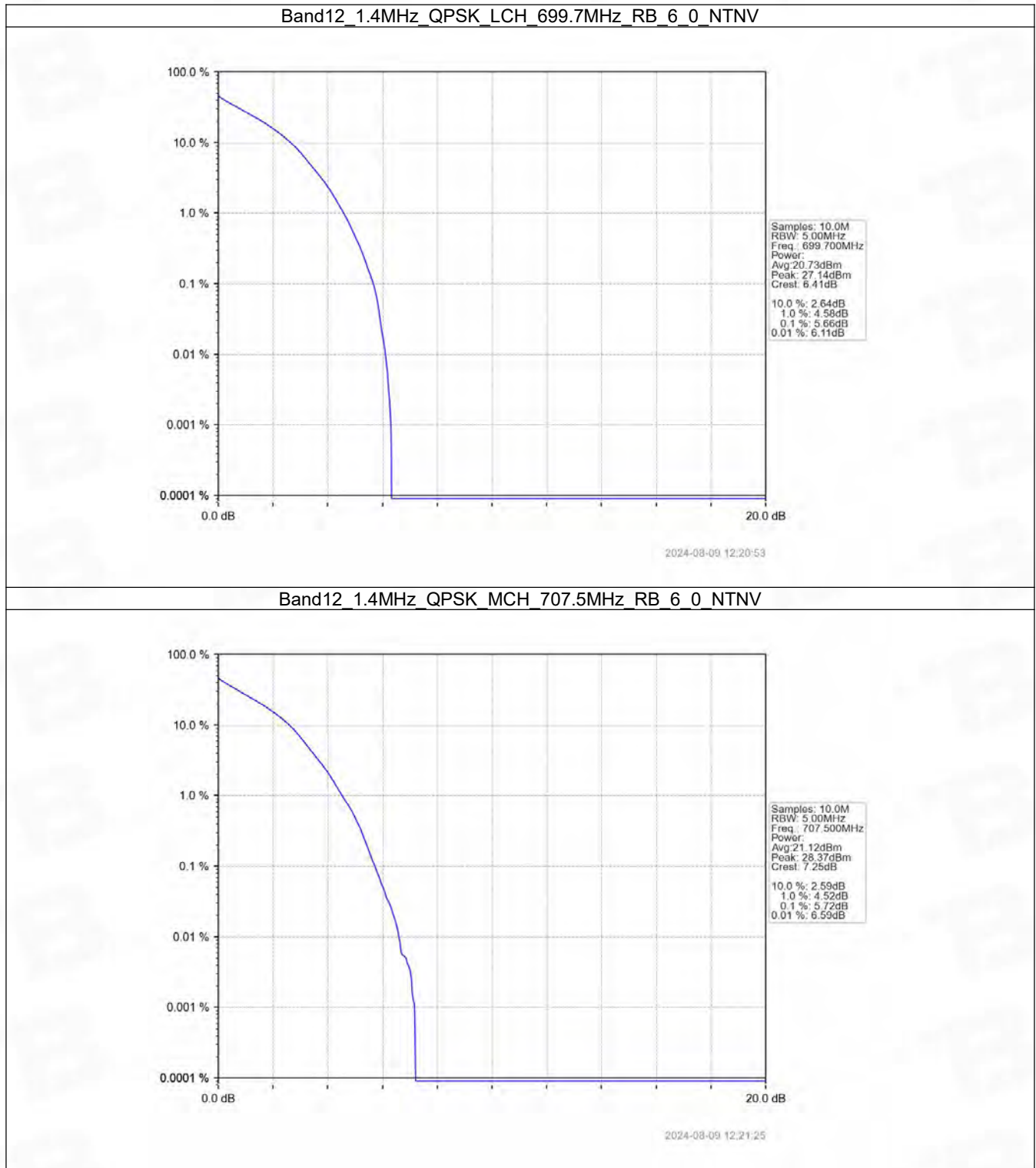
5.1.4 B12_10MHz

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	5.81	<=13	Pass
	707.5	50	0	5.87	<=13	Pass
	711	50	0	5.75	<=13	Pass
16QAM	704	50	0	6.53	<=13	Pass
	707.5	50	0	6.59	<=13	Pass

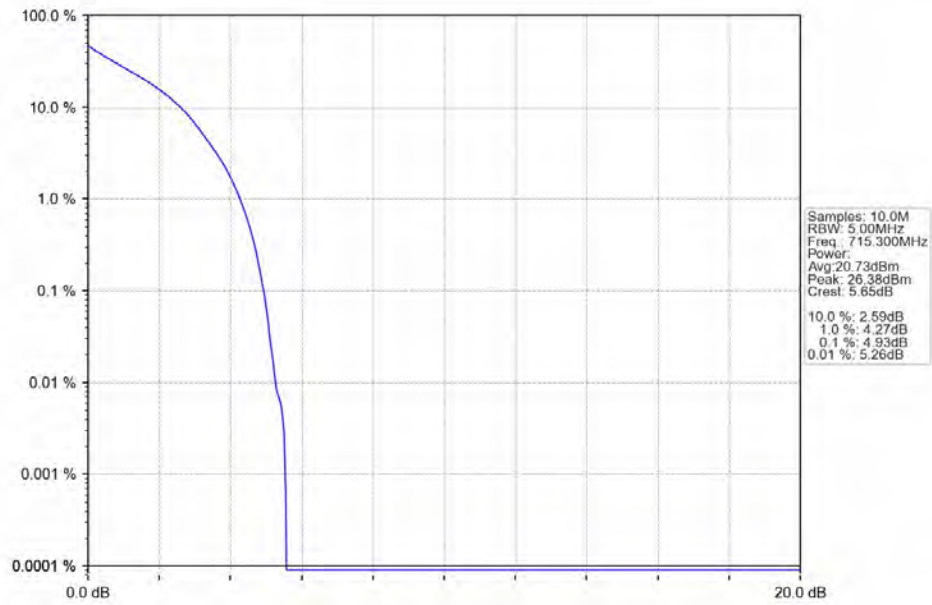
	711	50	0	6.45	<=13	Pass
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5.2 Test Graph

5.2.1 B12_1.4MHz

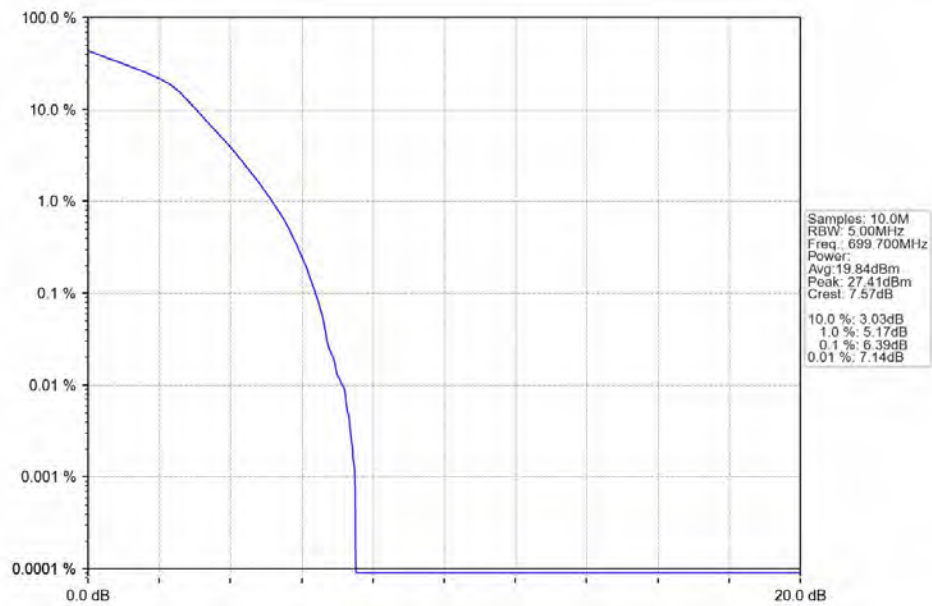


Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



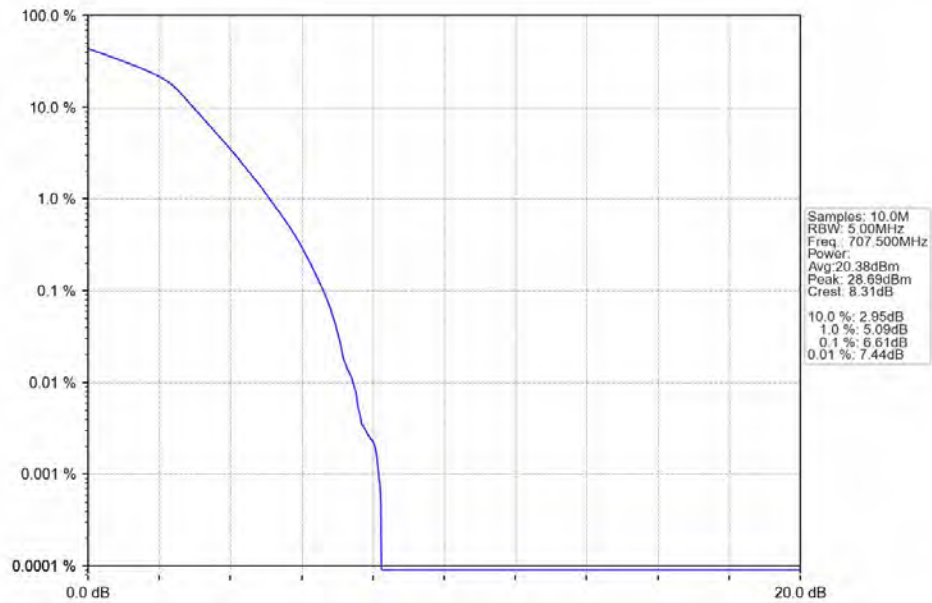
2024-08-09 12:21:52

Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



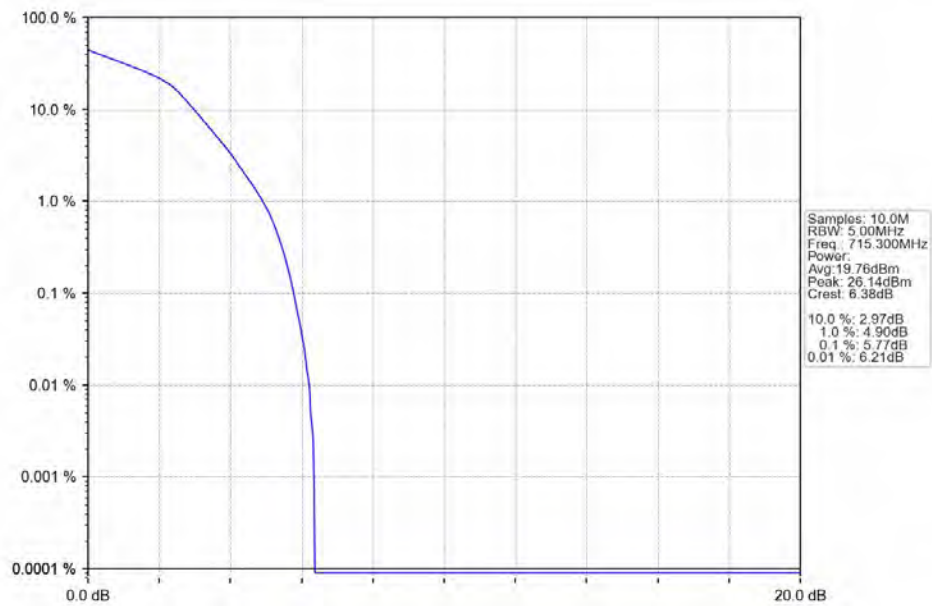
2024-08-09 12:21:09

Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



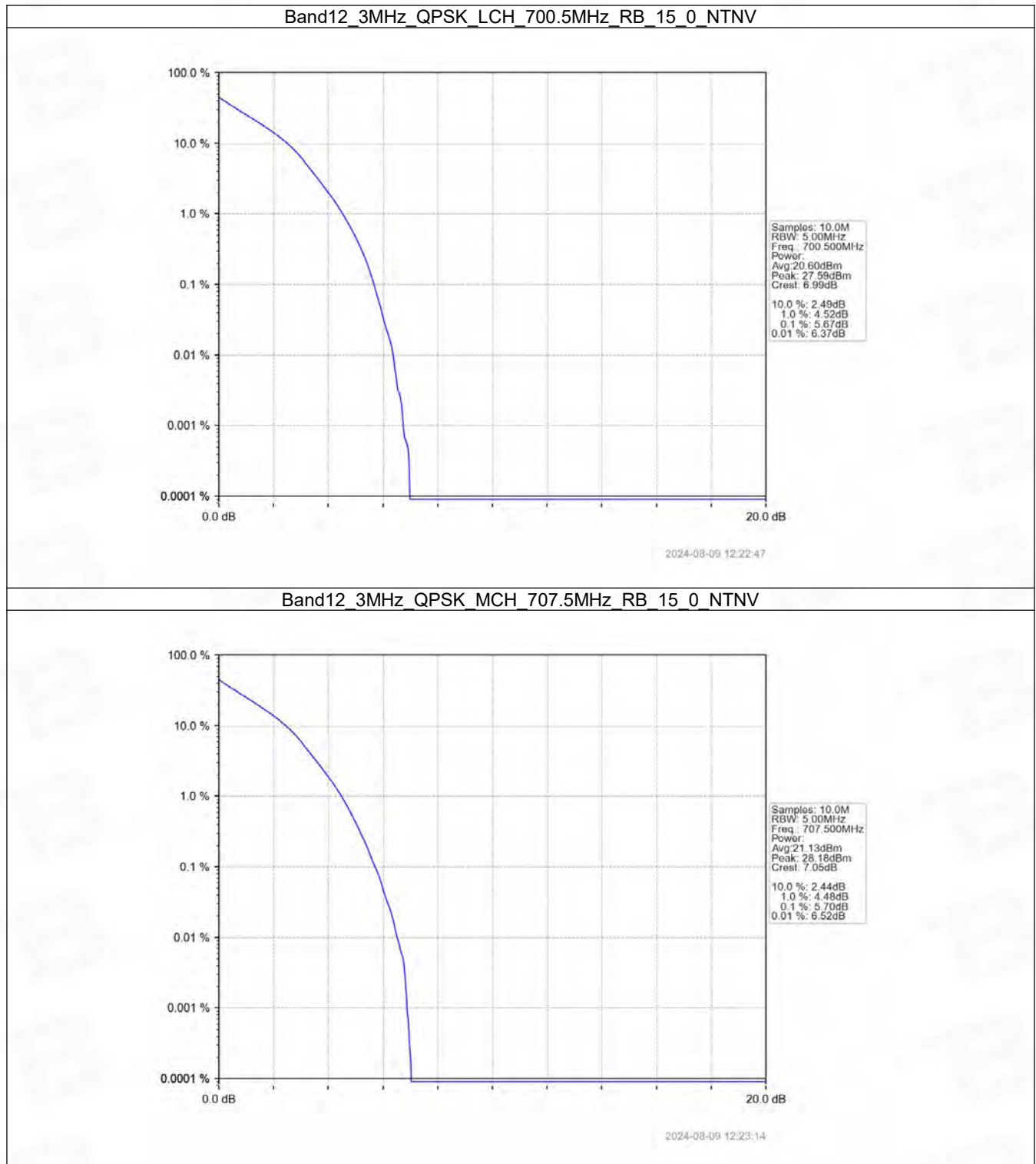
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Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV

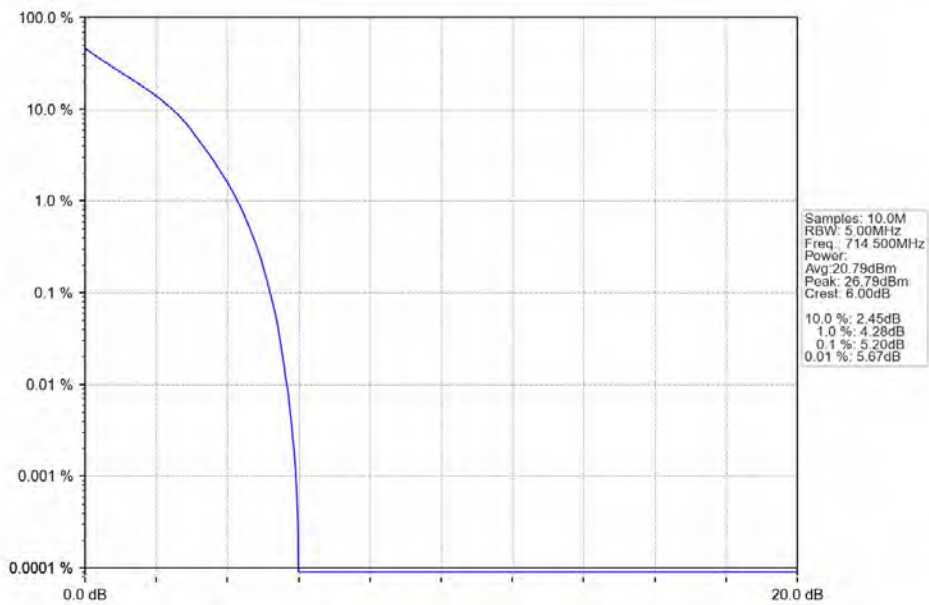


2024-08-09 12:22:04

5.2.2 B12_3MHz

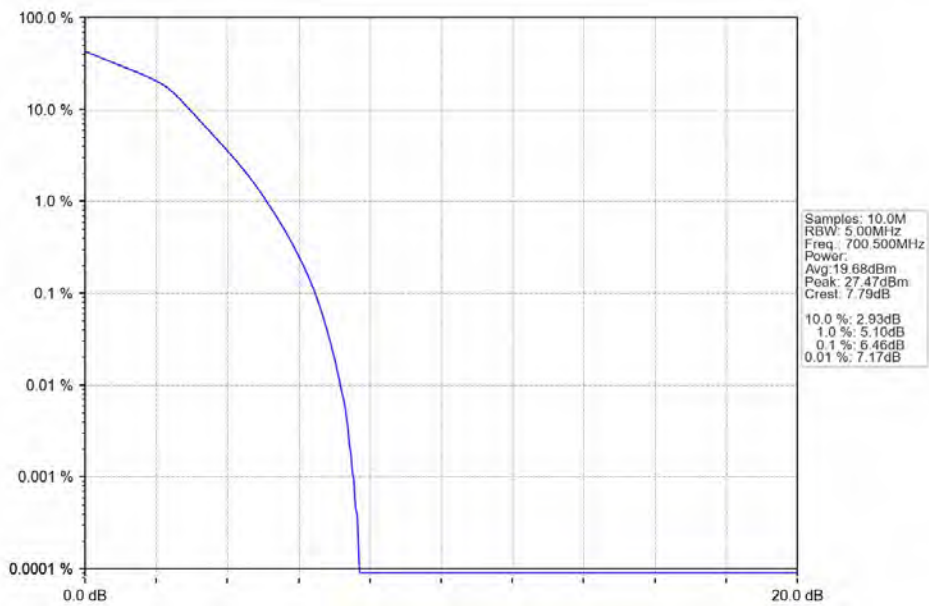


Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



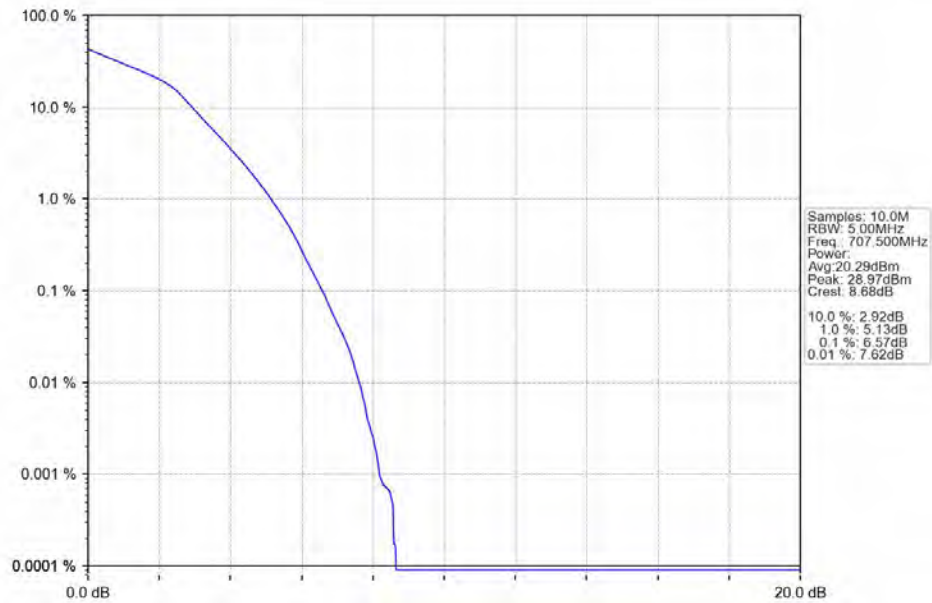
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Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



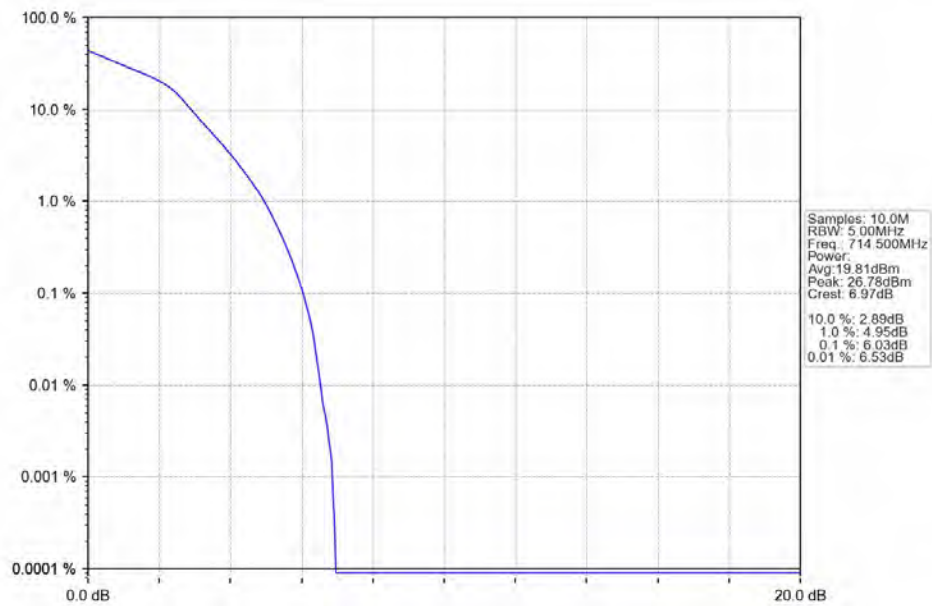
2024-08-09 12:23:00

Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



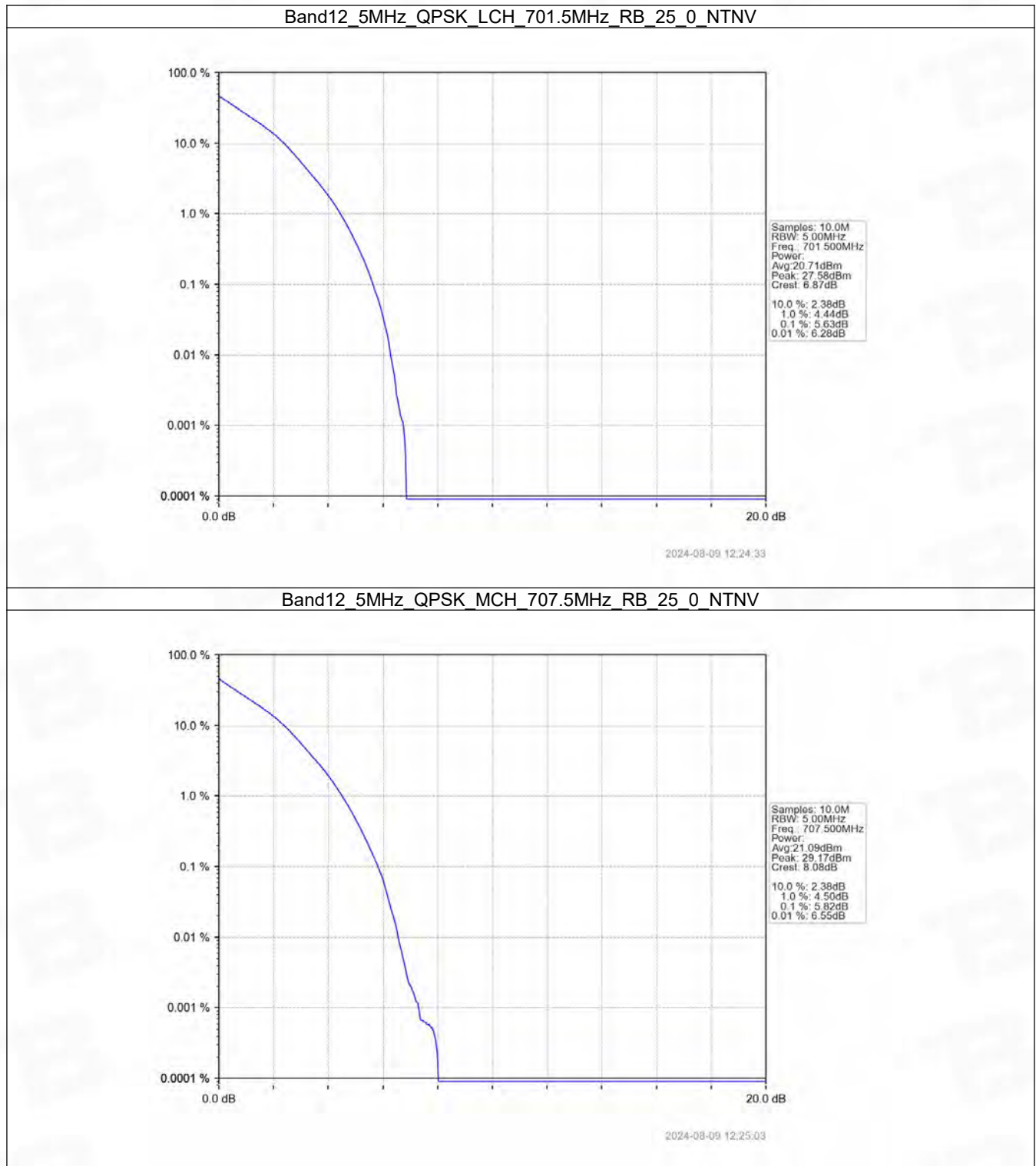
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Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV

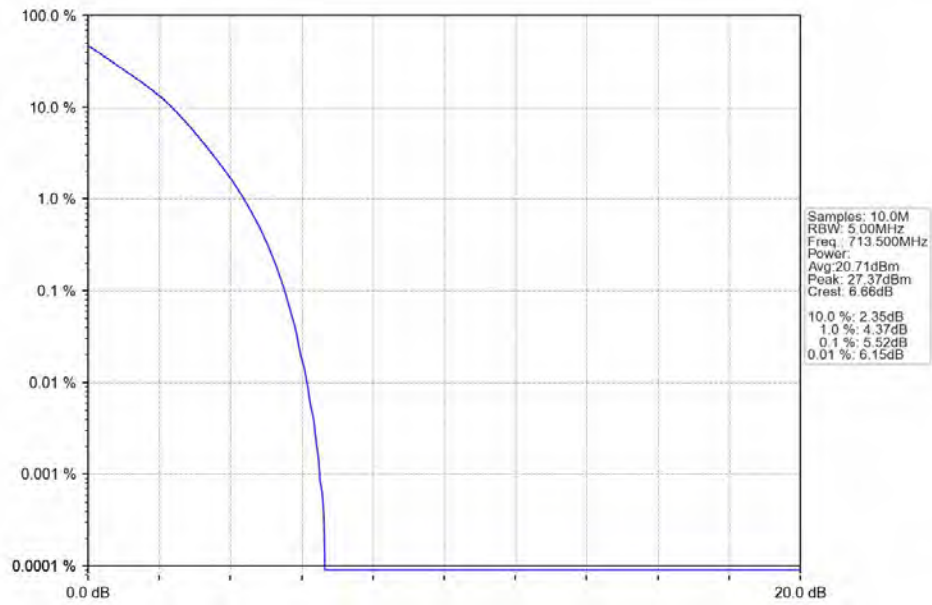


2024-08-09 12:23:54

5.2.3 B12_5MHz

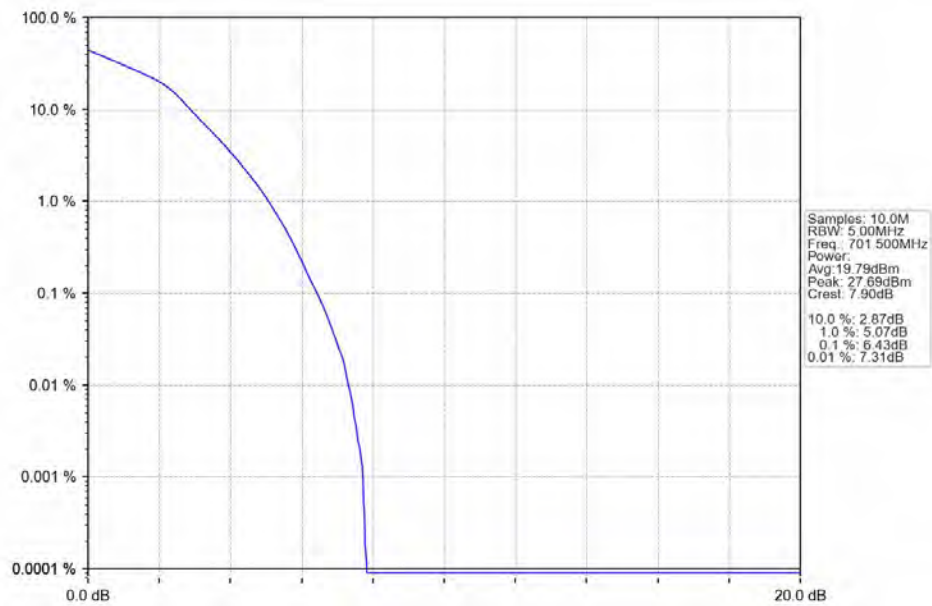


Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



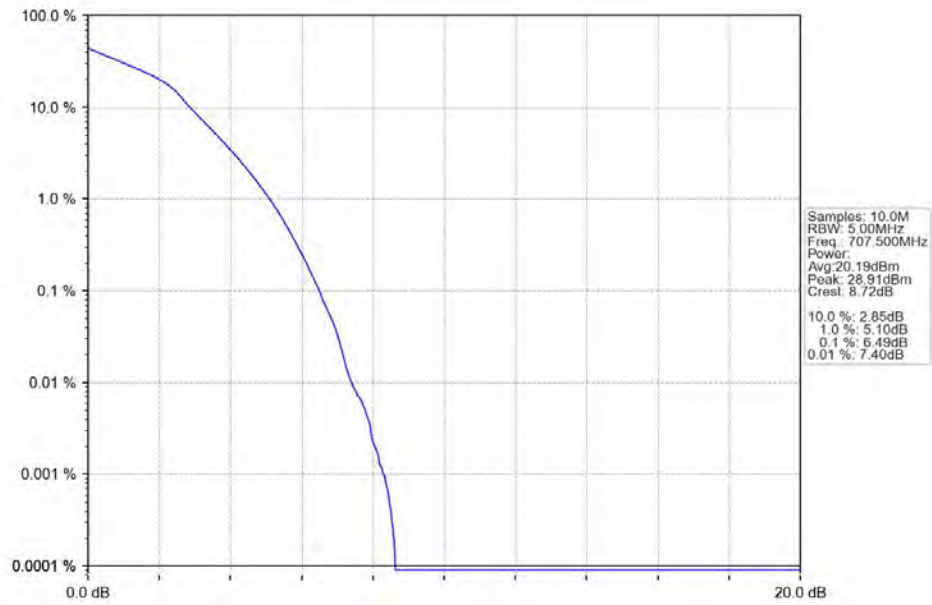
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Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



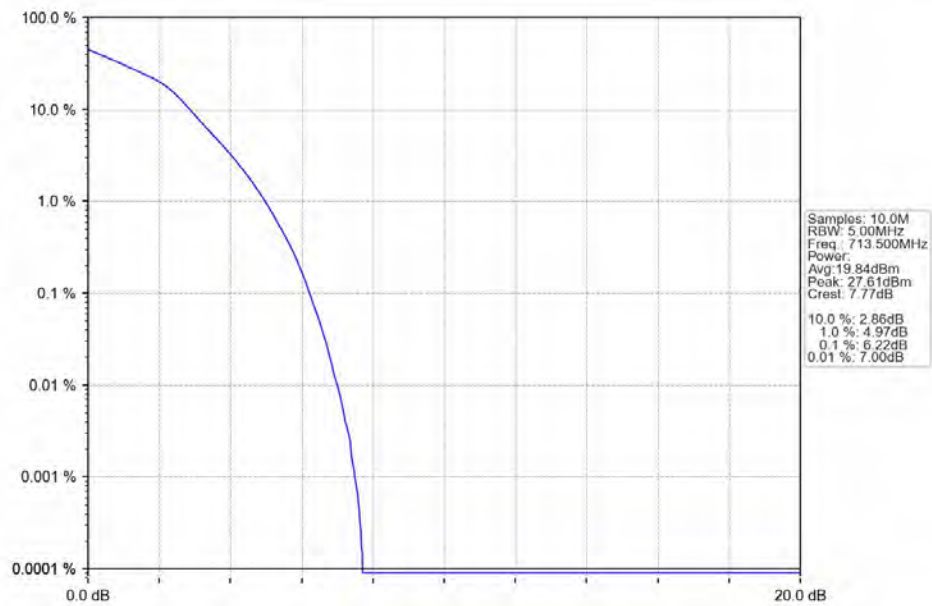
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Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



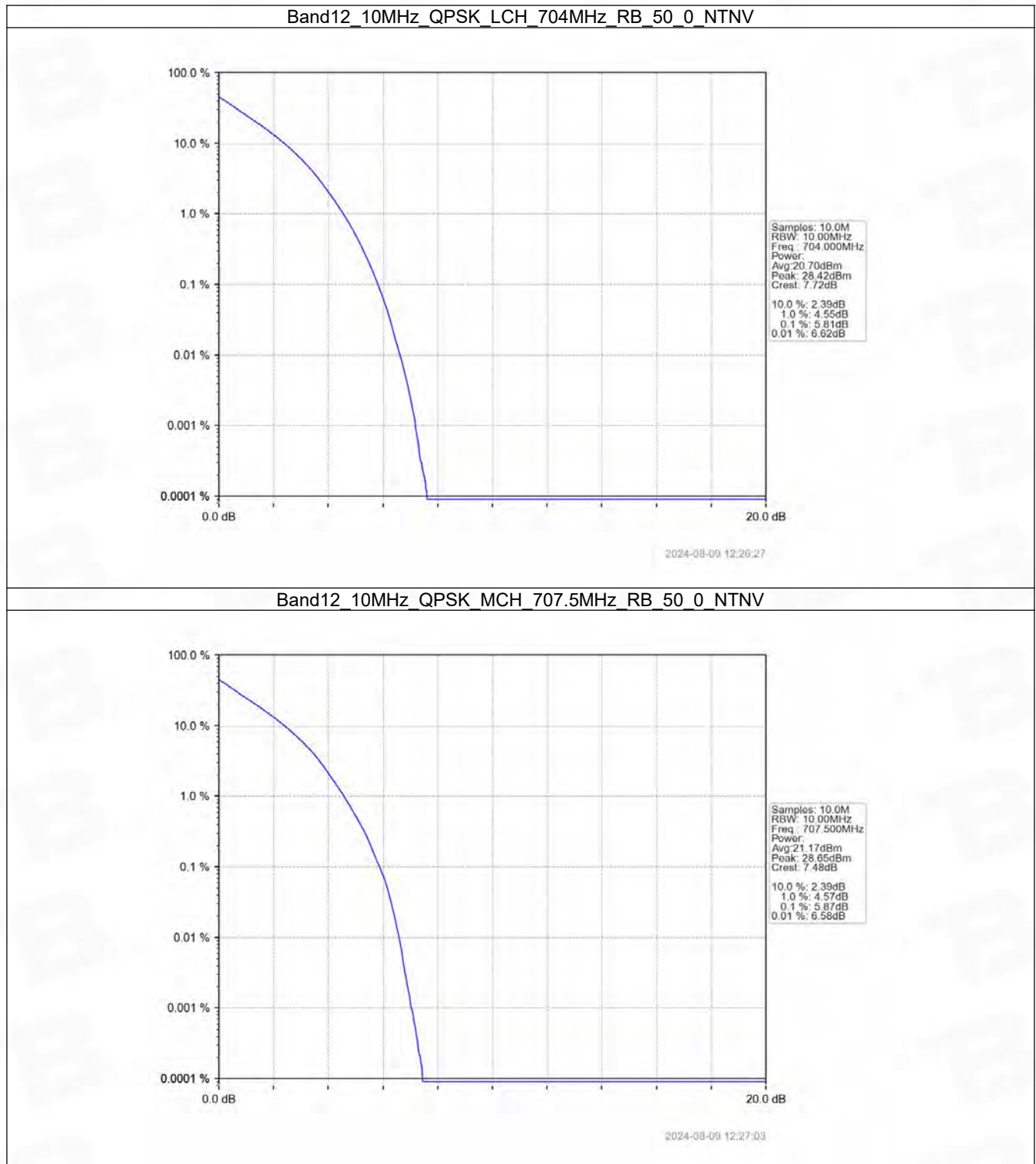
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Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

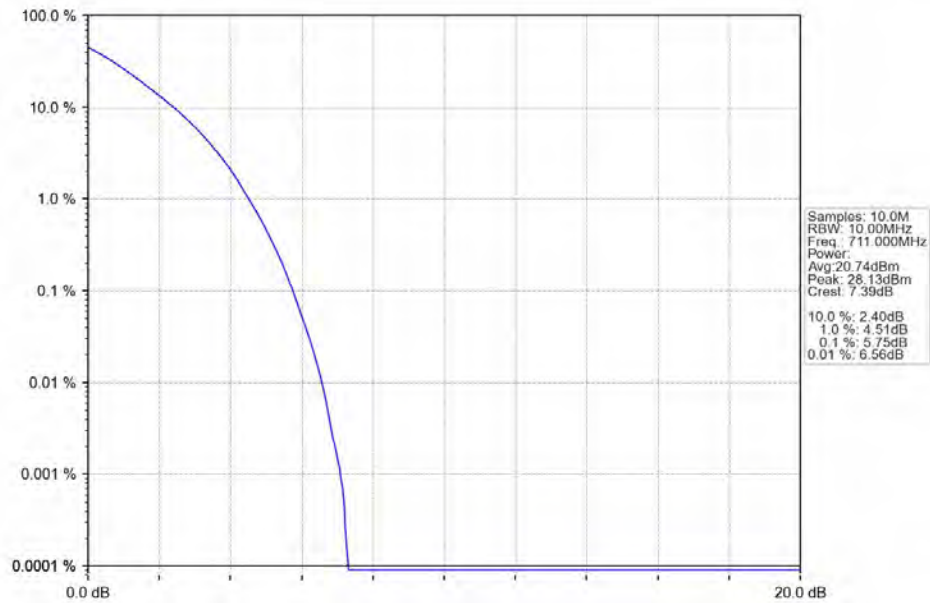


2024-08-09 12:25:45

5.2.4 B12_10MHz

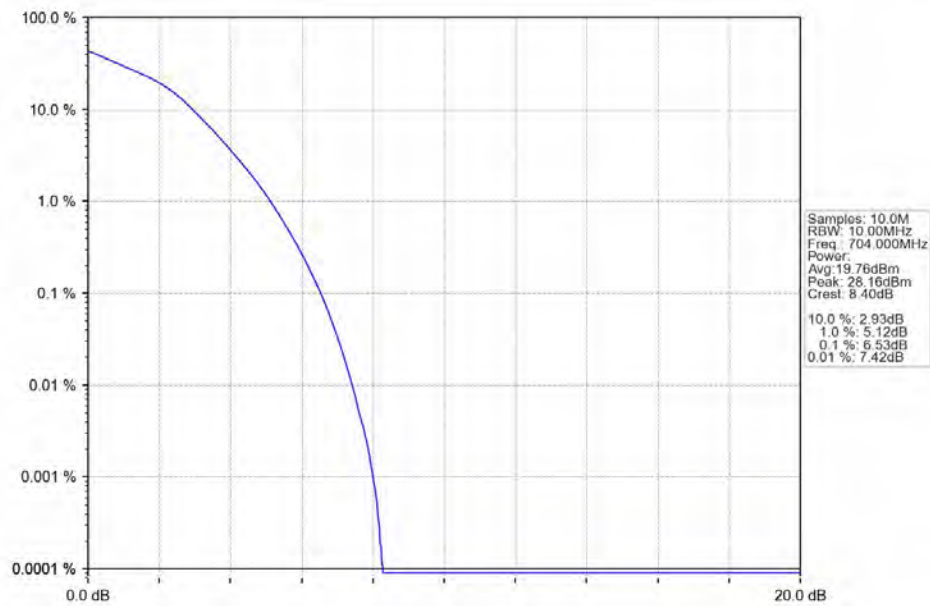


Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV

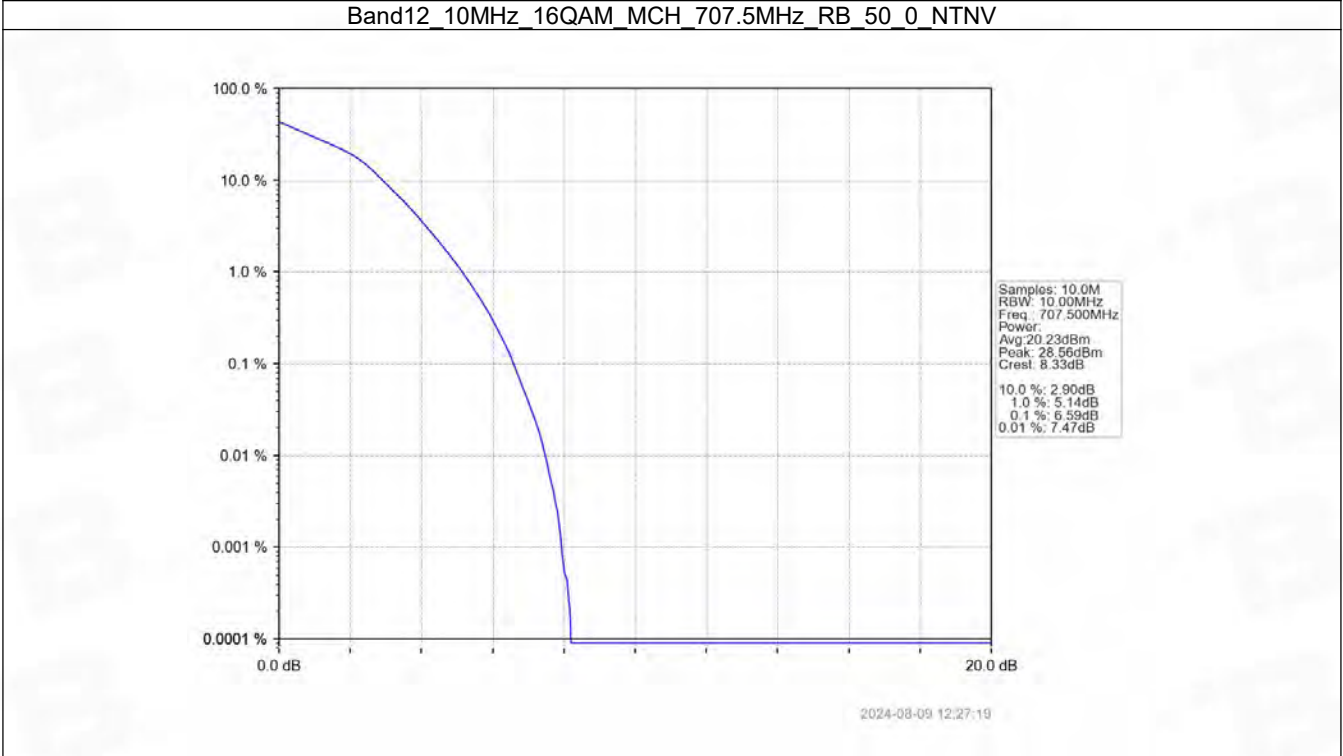


2024-08-09 12:27:37

Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



2024-08-09 12:28:43



6. Spurious Emission

6.1 Test Result

6.1.1 B12_1.4MHz

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	715.3	1	5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
16QAM	699.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	715.3	1	5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

6.1.2 B12_3MHz

Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	714.5	1	14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
16QAM	700.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	714.5	1	14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

6.1.3 B12_5MHz

Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	713.5	1	24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	701.5	1	0	Refer To Test Graph		Pass

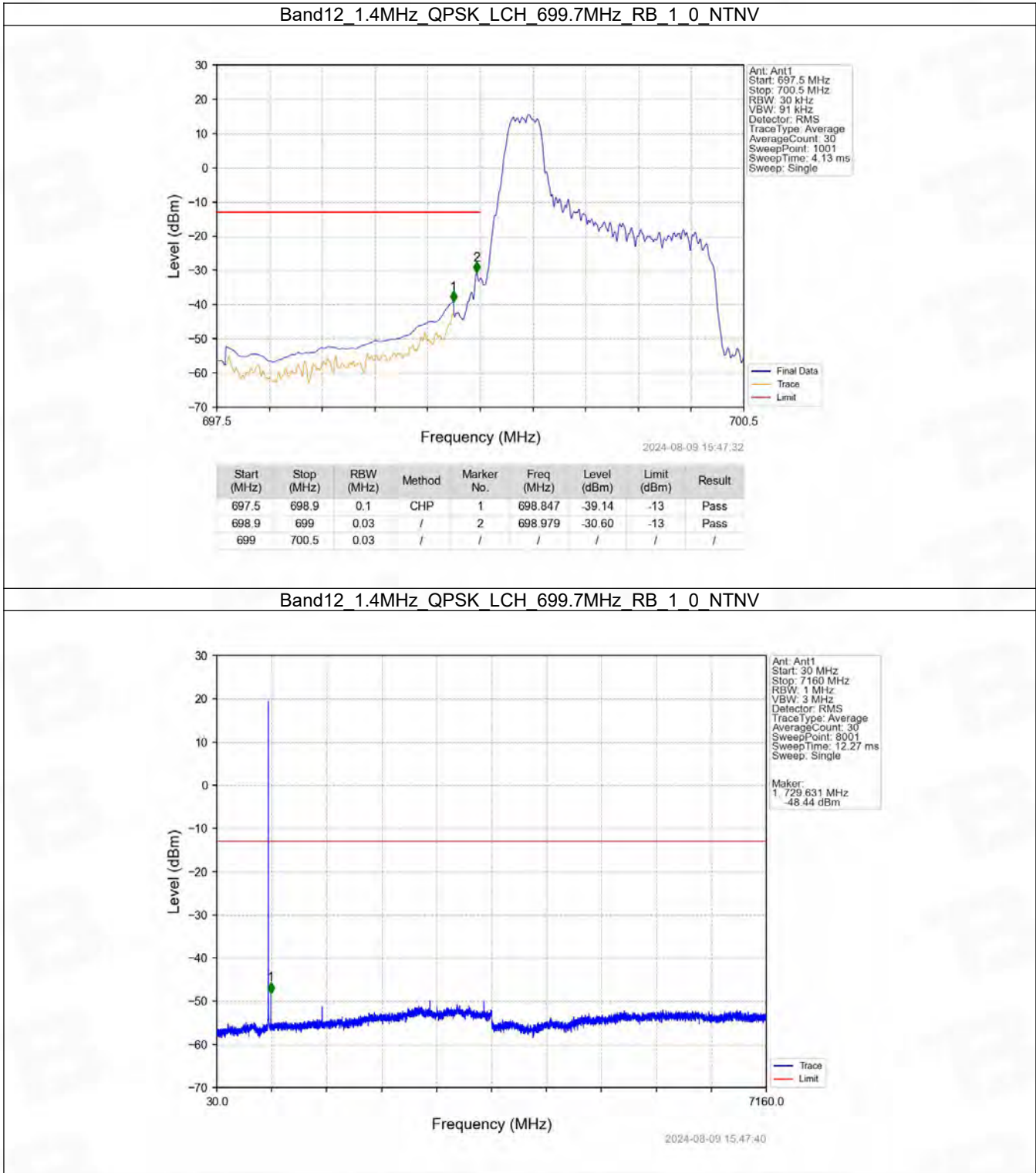
	707.5	25	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
	713.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass

6.1.4 B12_10MHz

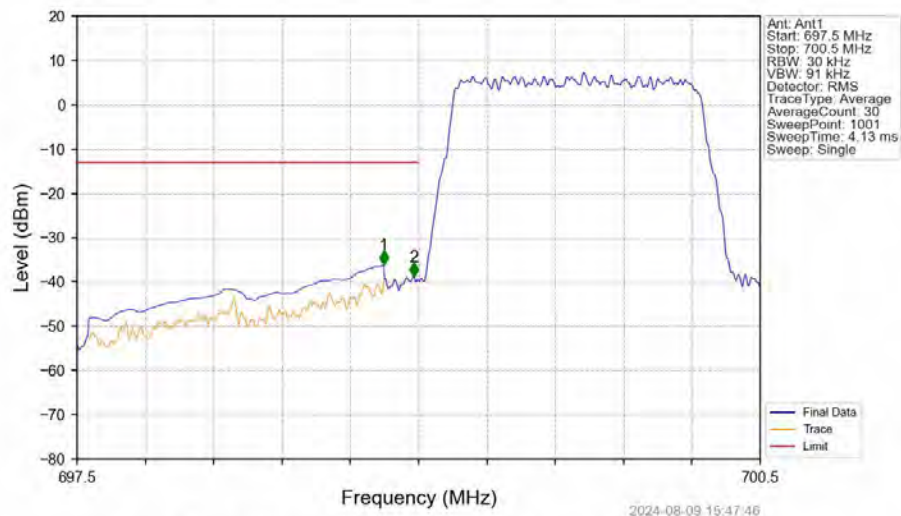
Band: 12 / Bandwidth: 10MHz / NTV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	704	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	707.5	1	0	Refer To Test Graph	Pass
	711	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
		50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

6.2 Test Graph

6.2.1 B12_1.4MHz

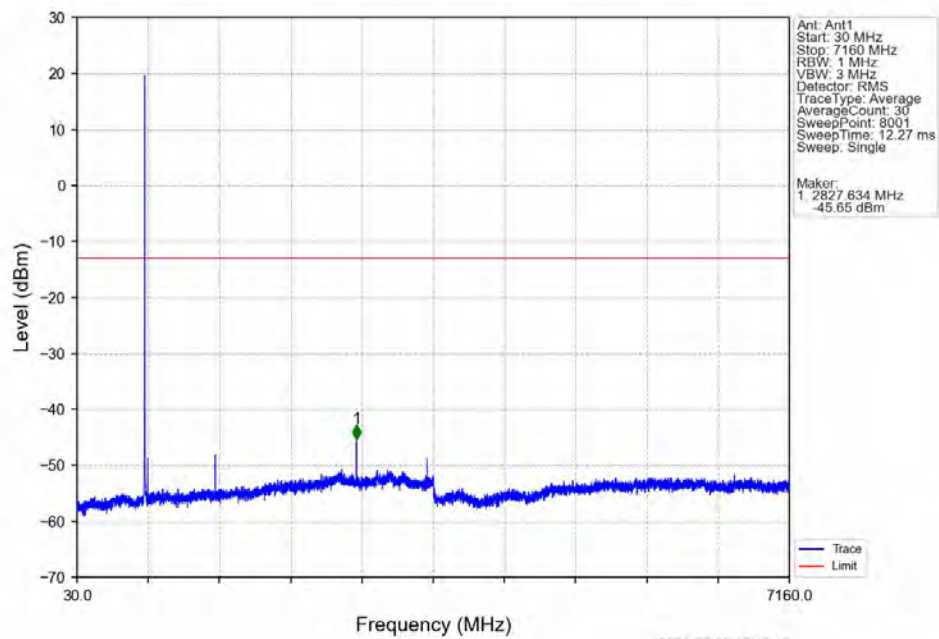


Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



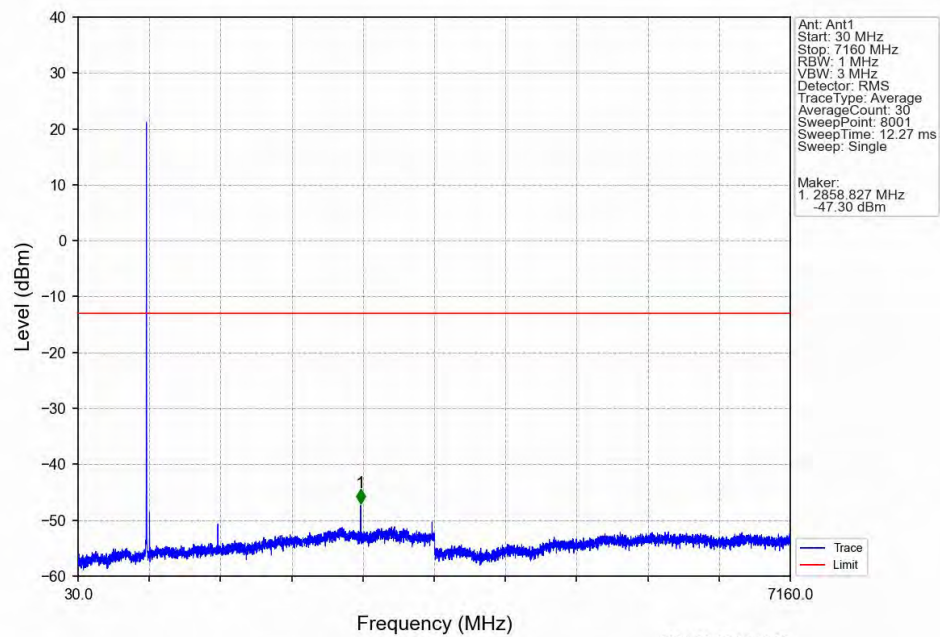
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-36.09	-13	Pass
698.9	699	0.03	/	2	698.979	-38.77	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV

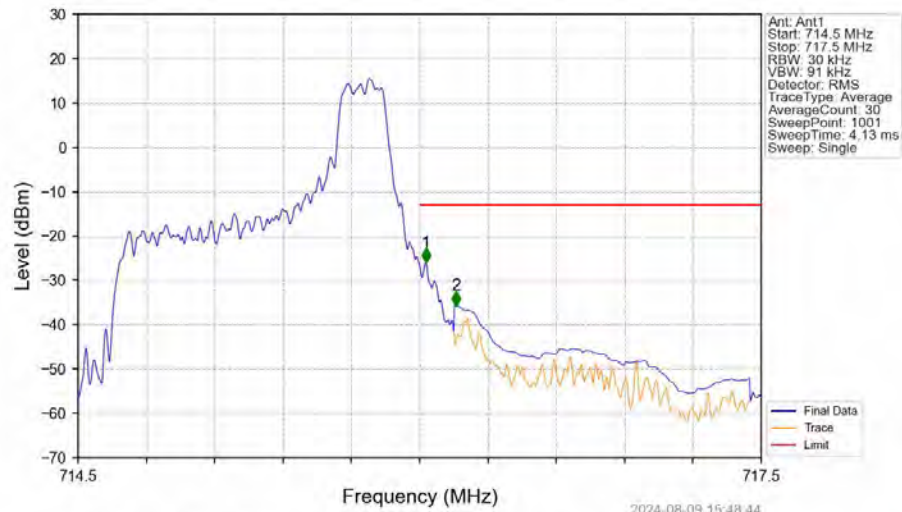


Marker:
1: 2827.634 MHz
-45.65 dBm

Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV

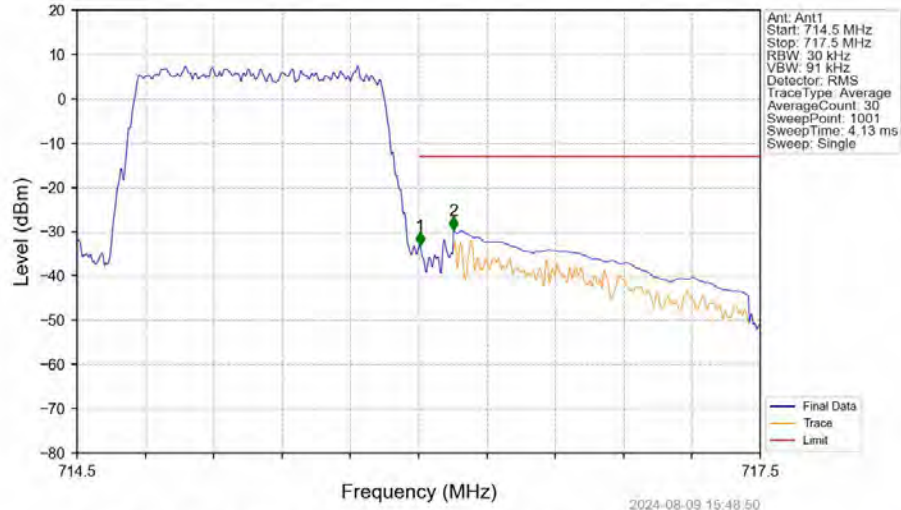


Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_5_NTNV



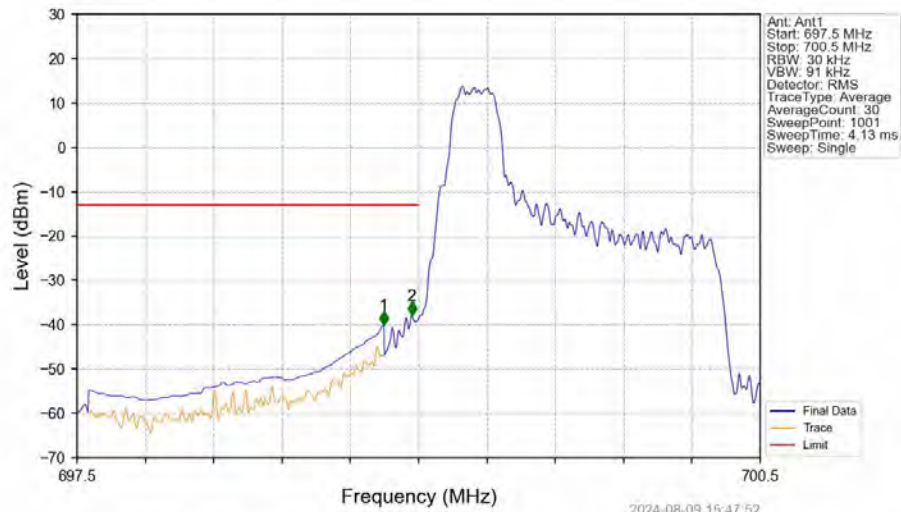
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.027	-25.87	-13	Pass
716.1	717.5	0.1	CHP	2	716.159	-35.61	-13	Pass

Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



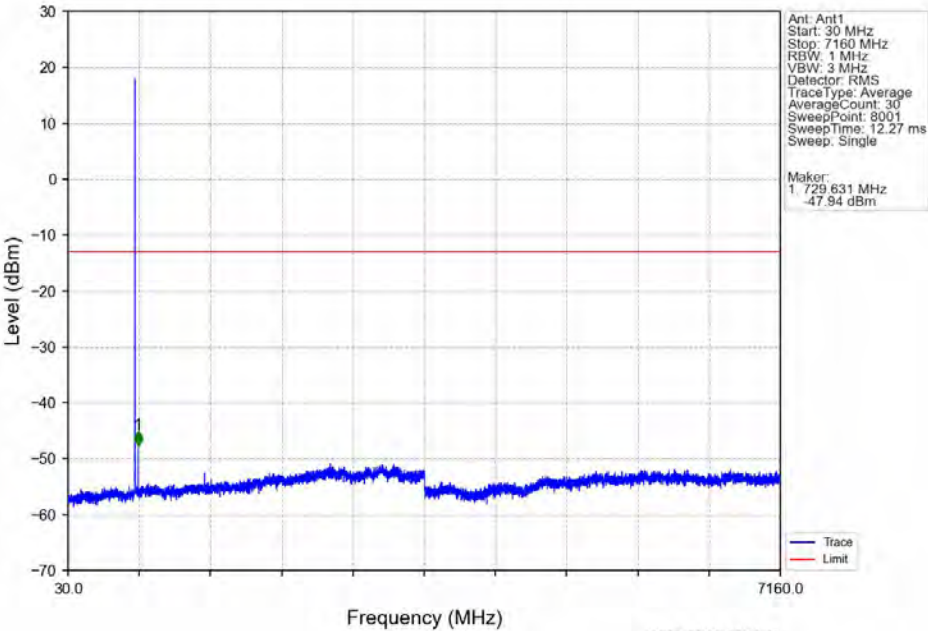
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.006	-33.10	-13	Pass
716.1	717.5	0.1	CHP	2	716.153	-29.68	-13	Pass

Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV

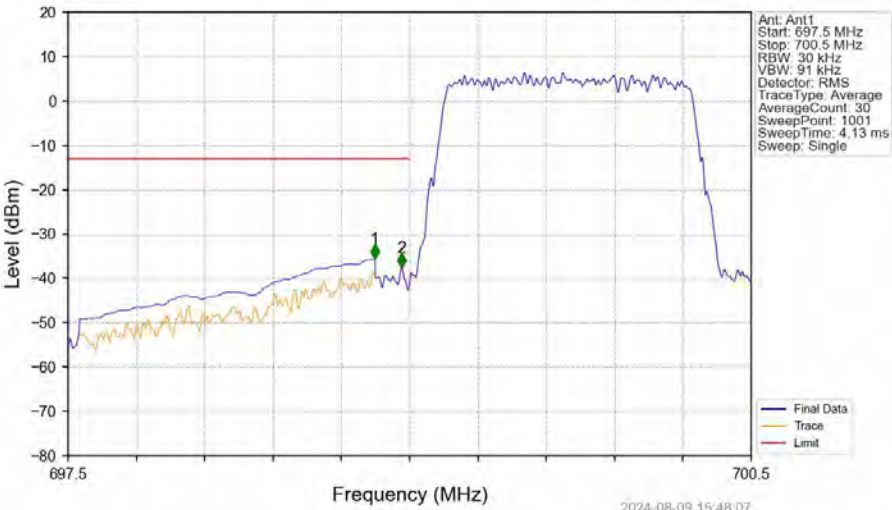


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-40.06	-13	Pass
698.9	699	0.03	/	2	698.970	-37.85	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV

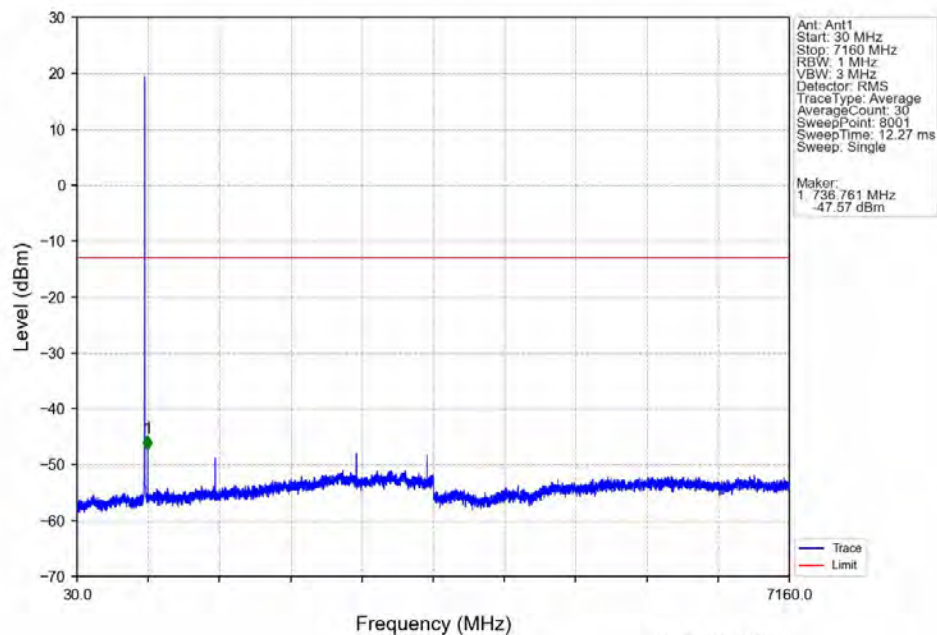


Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV

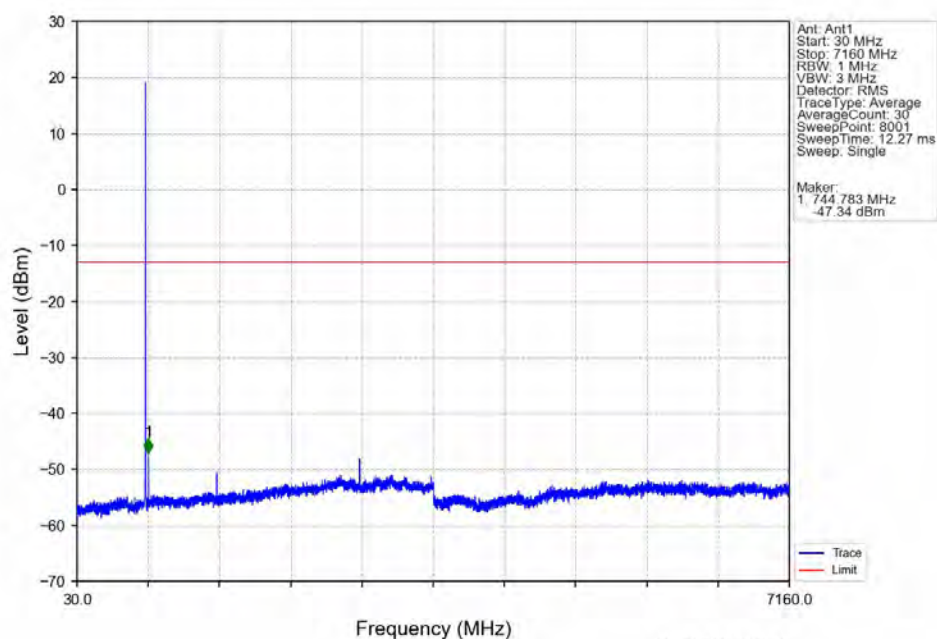


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-35.51	-13	Pass
698.9	699	0.03	/	2	698.964	-37.51	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

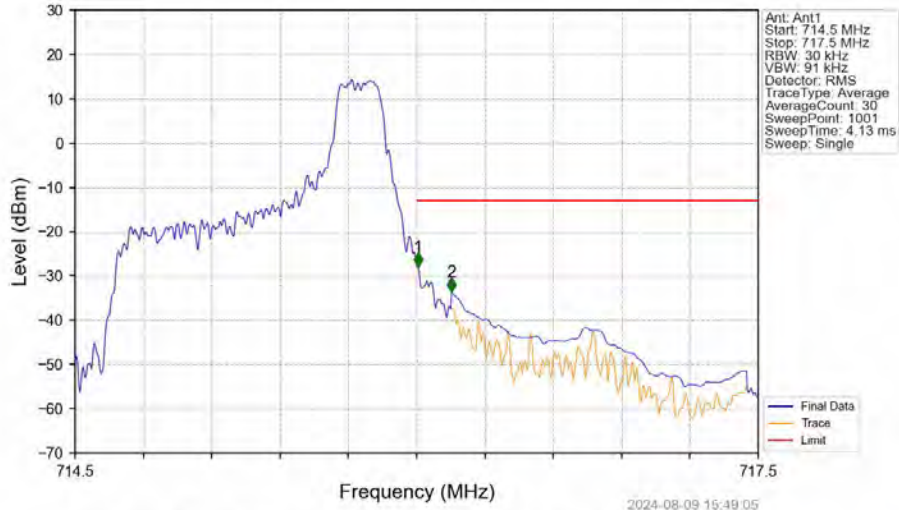
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_1_0_NTNV



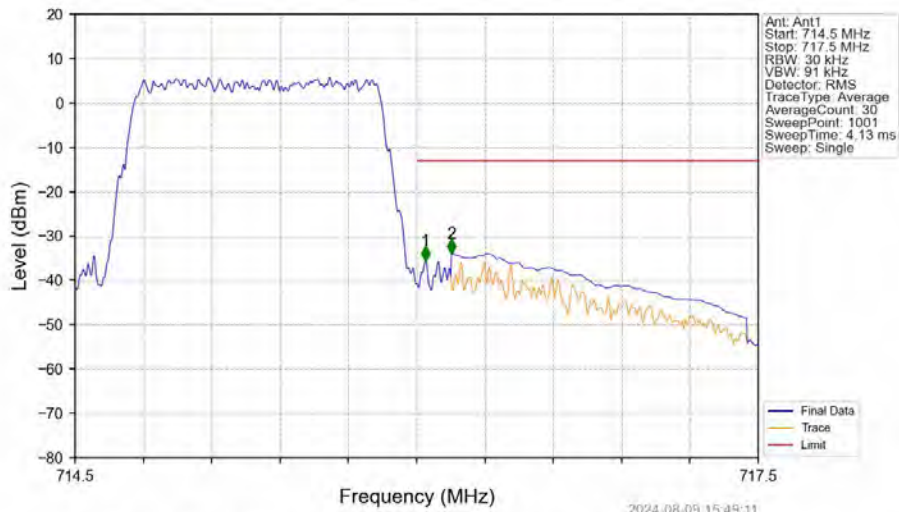
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_1_5_NTNV



2024-08-09 15:49:05

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.006	-27.83	-13	Pass
716.1	717.5	0.1	CHP	2	716.153	-33.60	-13	Pass

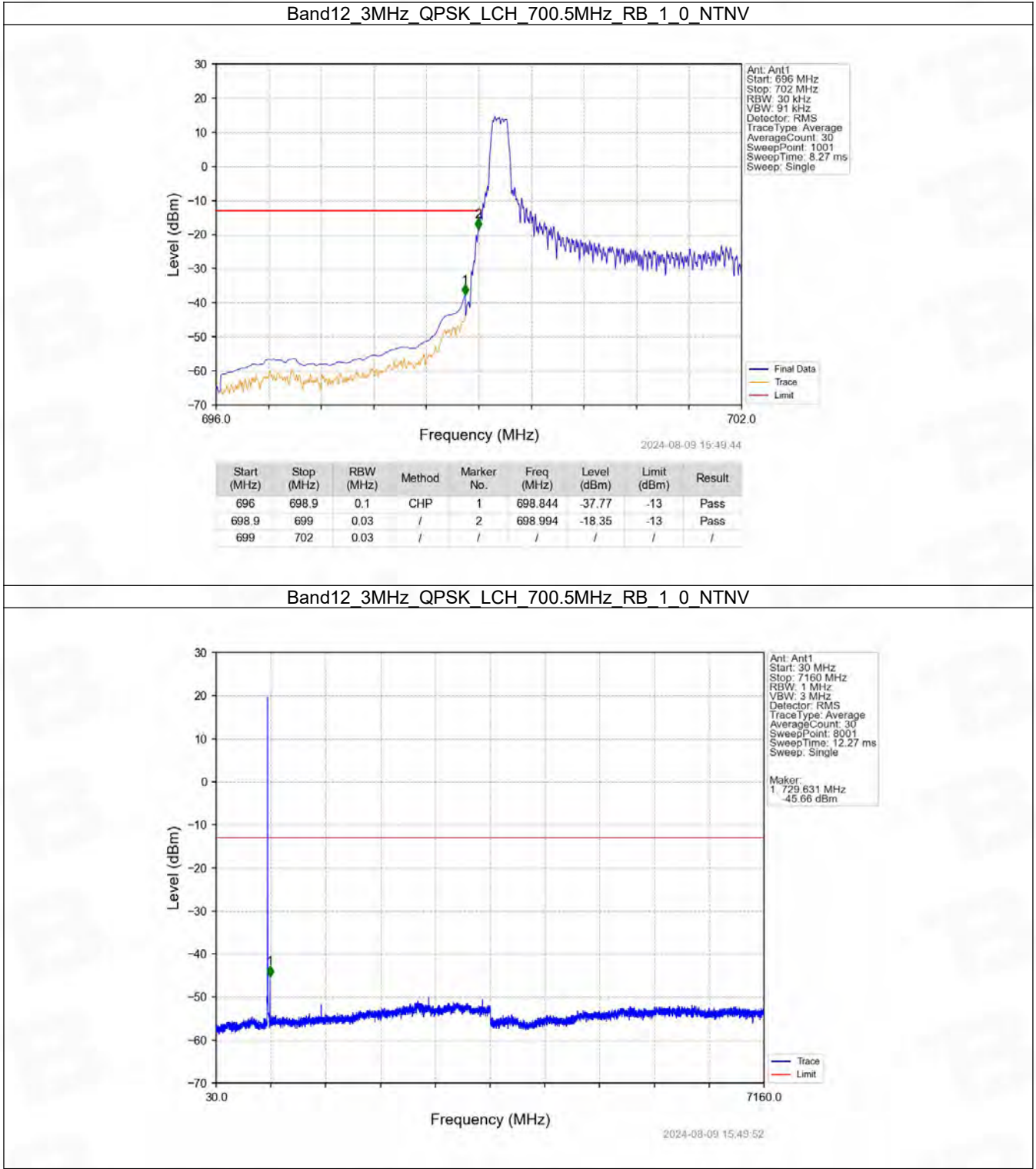
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



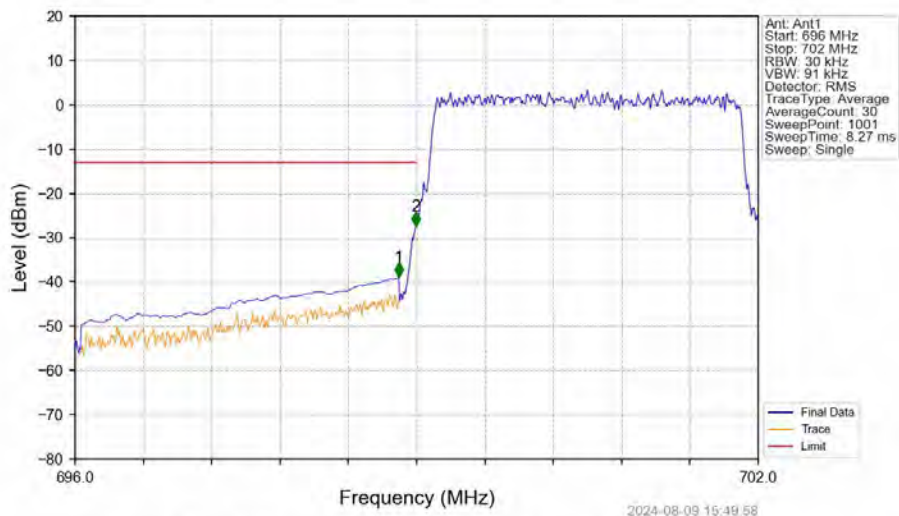
2024-08-09 15:49:11

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.039	-35.53	-13	Pass
716.1	717.5	0.1	CHP	2	716.153	-33.90	-13	Pass

6.2.2 B12_3MHz

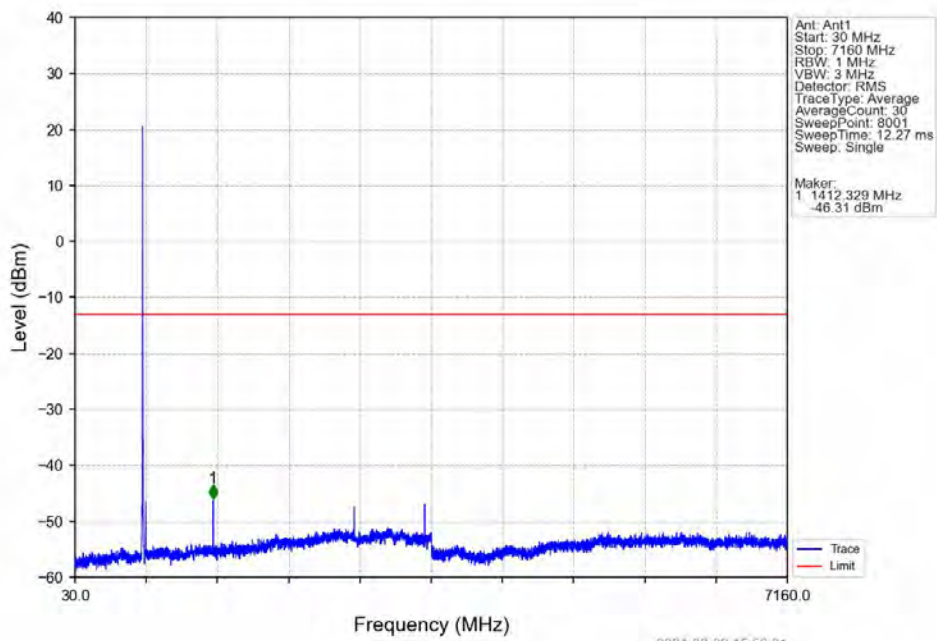


Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV

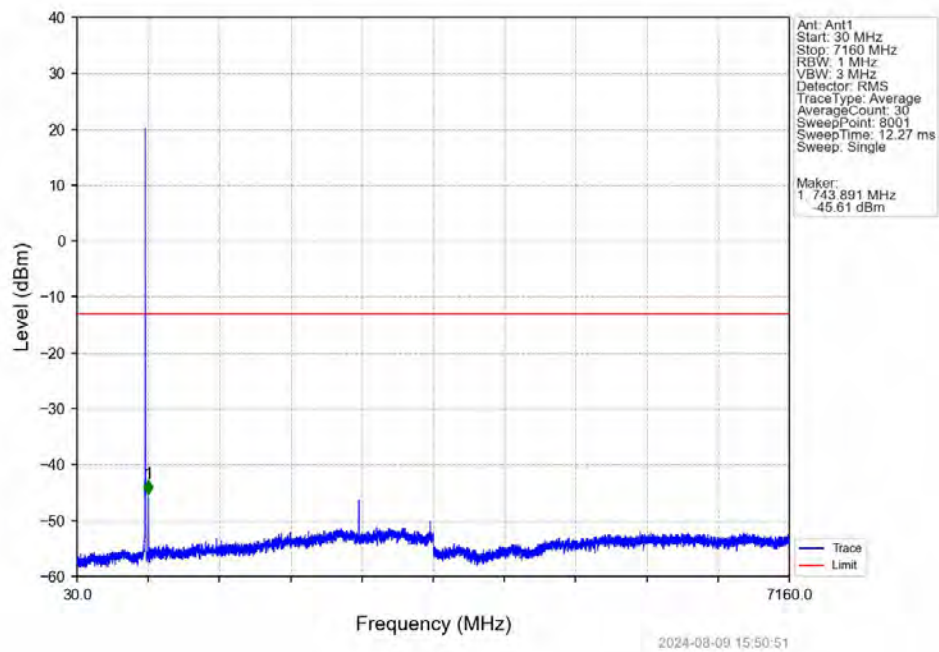


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-38.86	-13	Pass
698.9	699	0.03	/	2	698.994	-27.28	-13	Pass
699	702	0.03	/	/	/	/	/	/

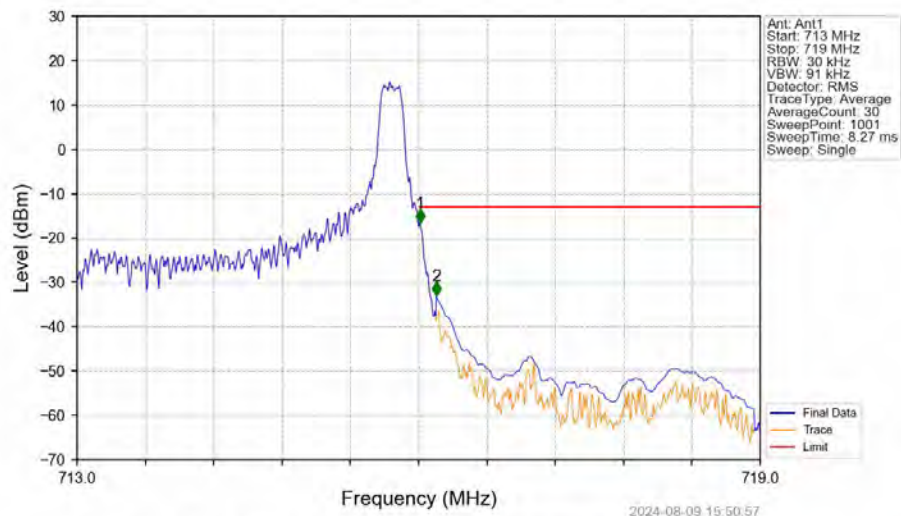
Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_0_NTNV

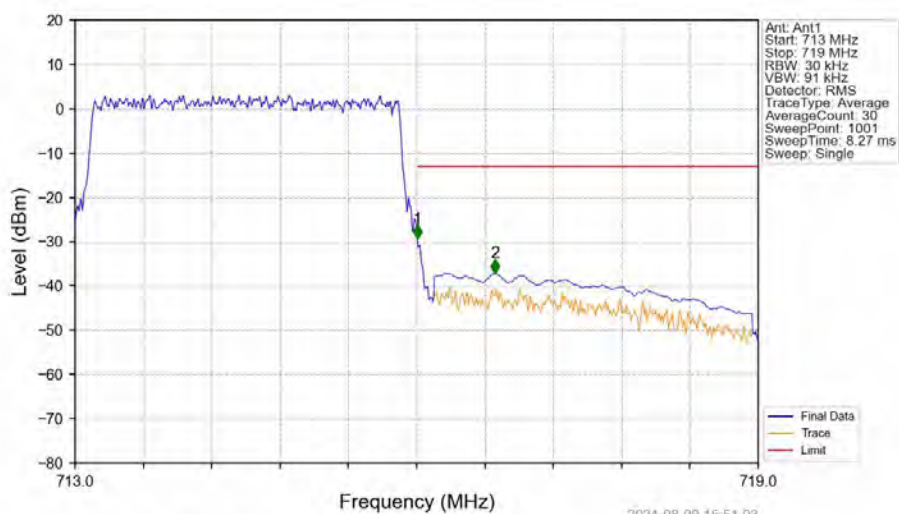


Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_14_NTNV



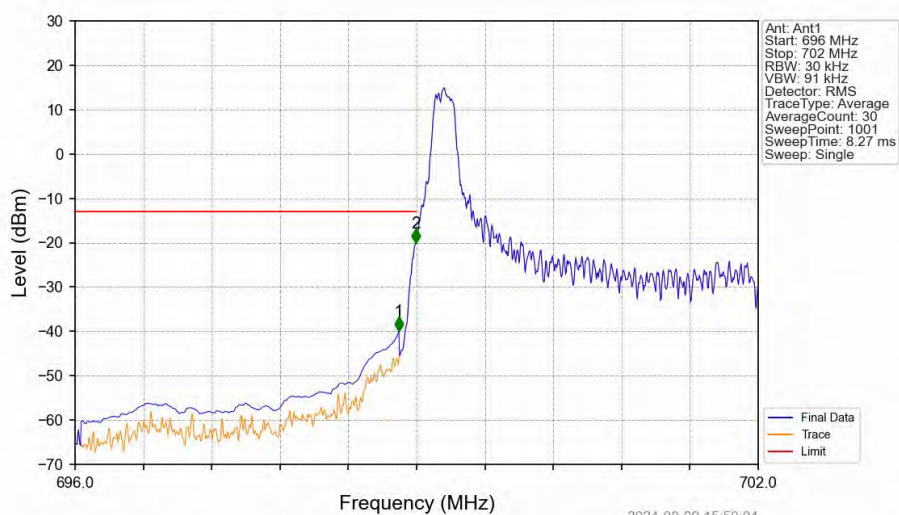
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.012	-16.57	-13	Pass
716.1	719	0.1	CHP	2	716.156	-33.00	-13	Pass

Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



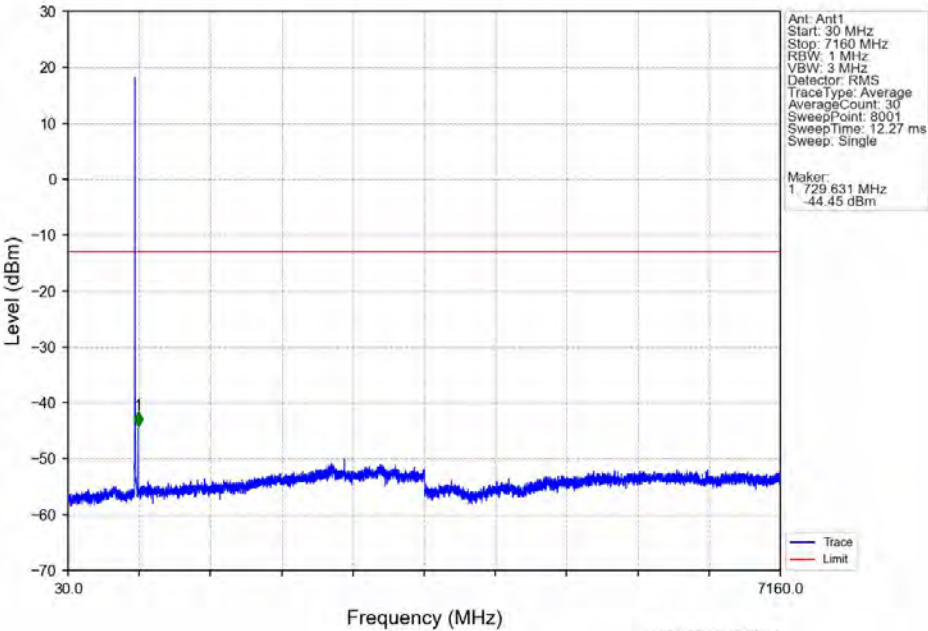
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.006	-29.30	-13	Pass
716.1	719	0.1	CHP	2	716.690	-37.05	-13	Pass

Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV



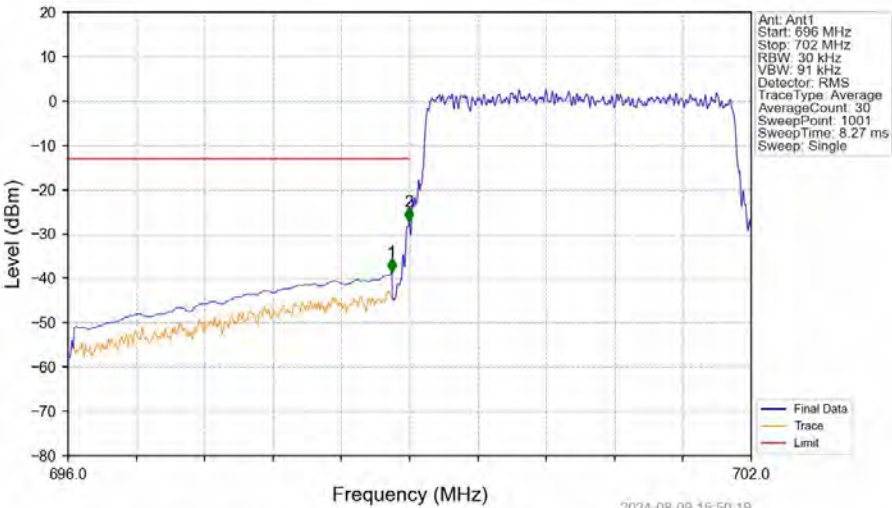
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-39.90	-13	Pass
698.9	699	0.03	/	2	698.994	-20.01	-13	Pass
699	702	0.03	/	/	/	/	/	/

Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV



2024-08-09 15:50:13

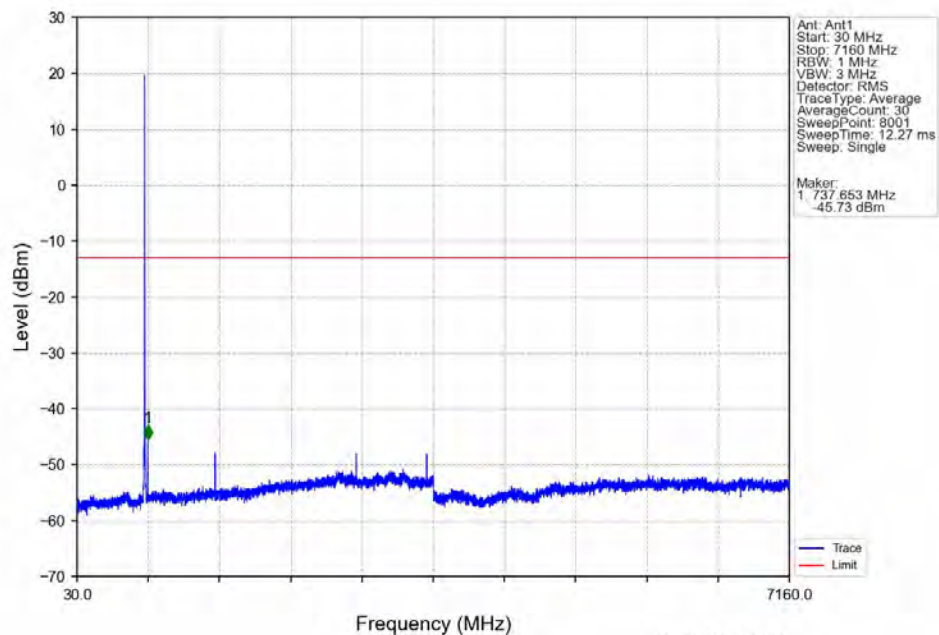
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



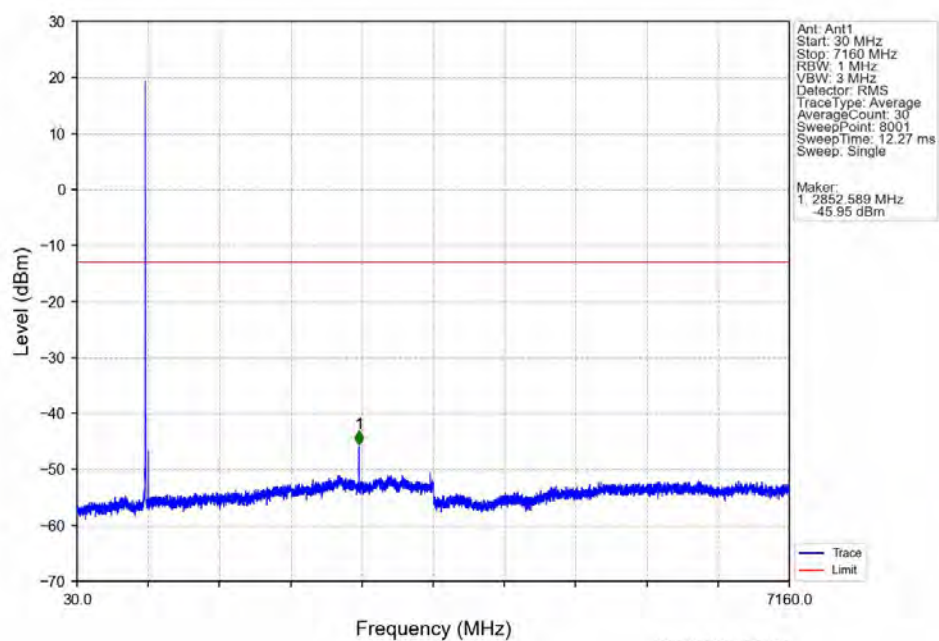
2024-08-09 15:50:19

Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-38.65	-13	Pass
698.9	699	0.03	/	2	698.994	-27.09	-13	Pass
699	702	0.03	/	/	/	/	/	/

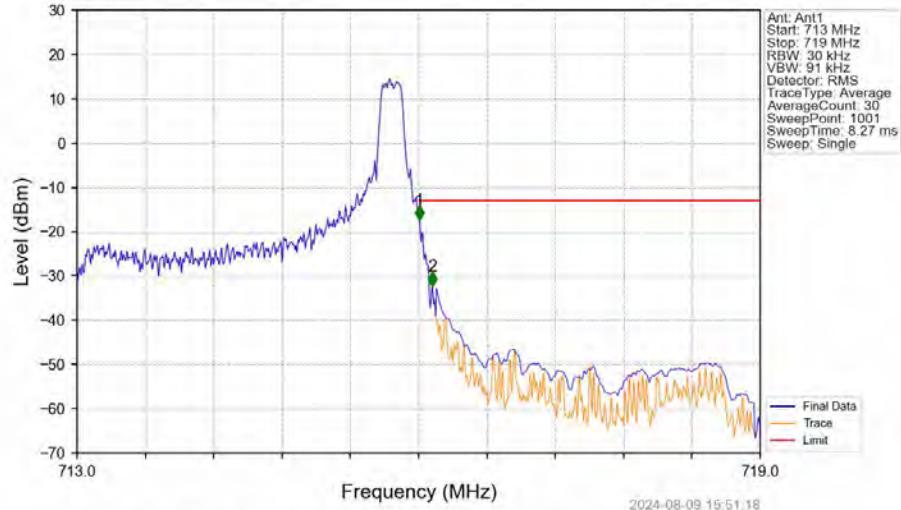
Band12_3MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



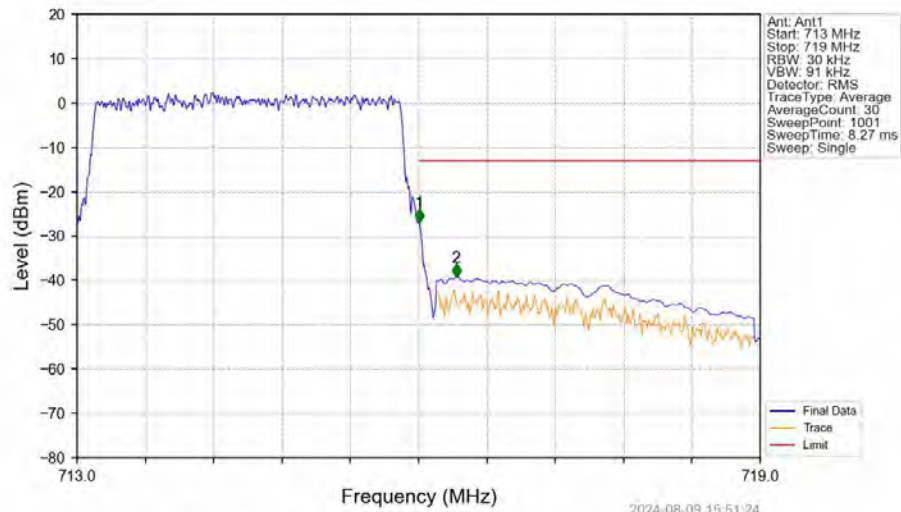
Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_0_NTNV



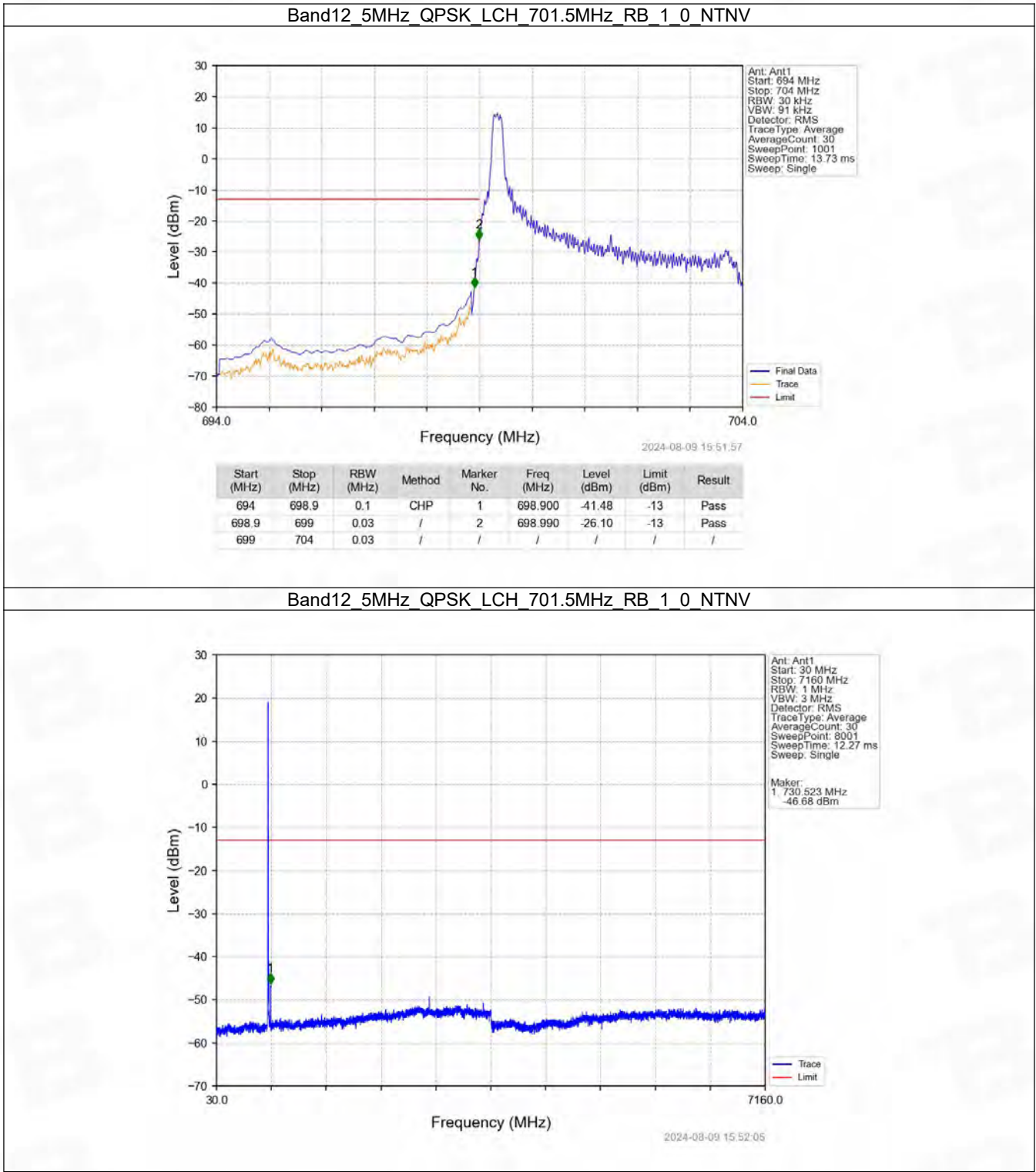
Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_14_NTNV



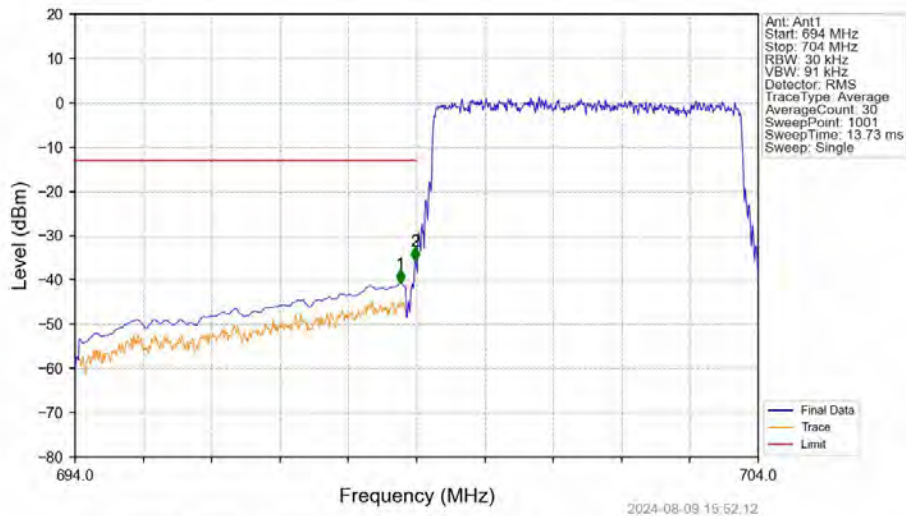
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



6.2.3 B12_5MHz

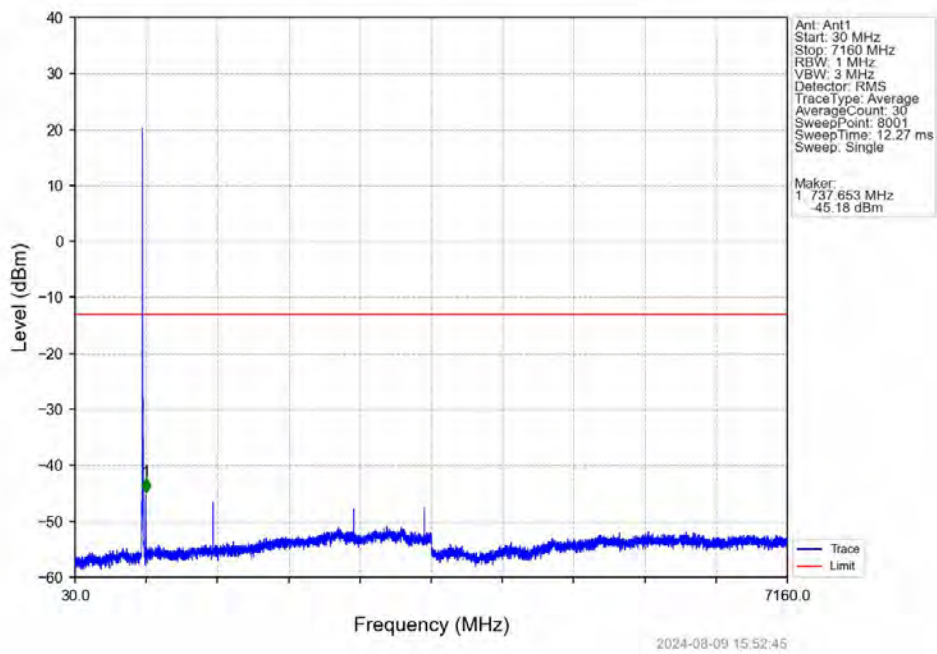


Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV

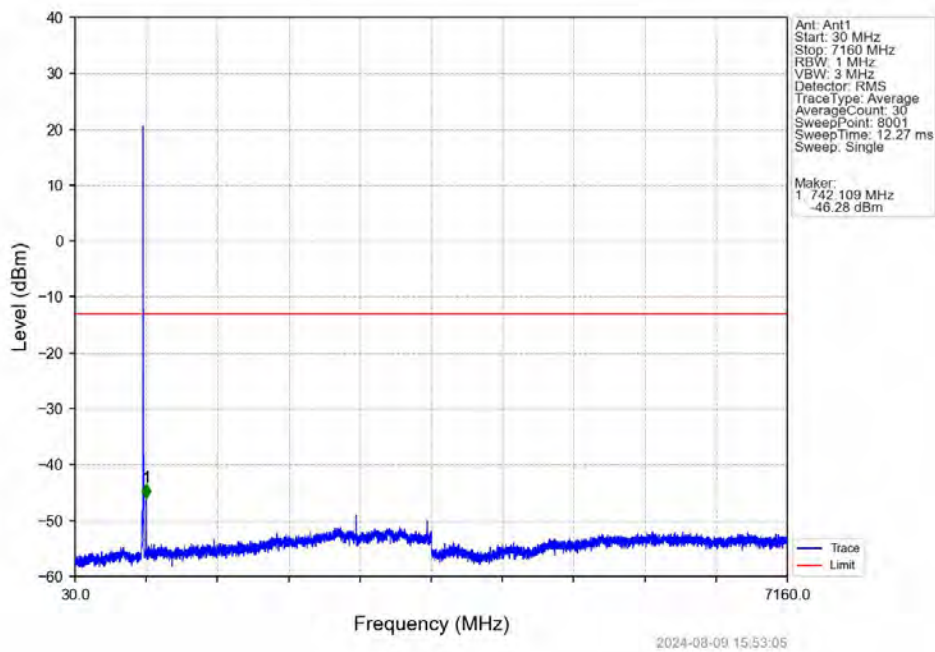


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.760	-40.76	-13	Pass
698.9	699	0.03	/	2	698.980	-35.66	-13	Pass
699	704	0.03	/	/	/	/	/	/

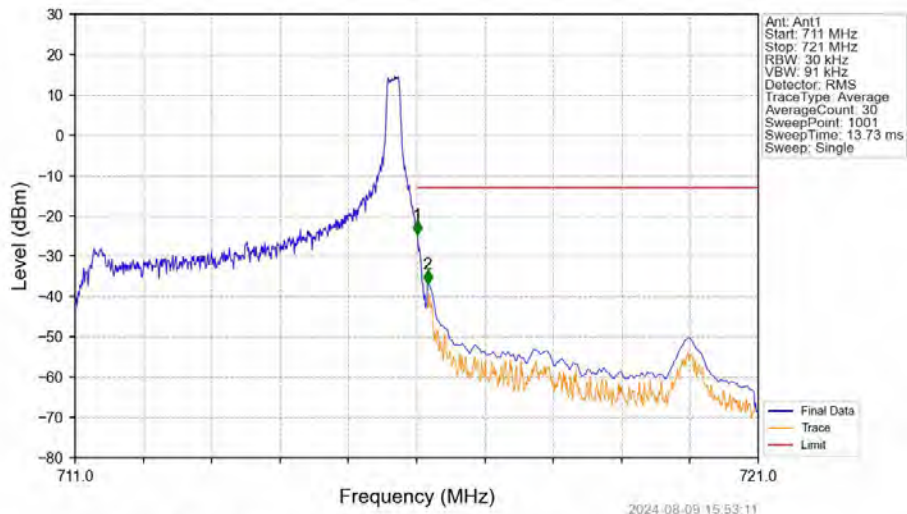
Band12_5MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

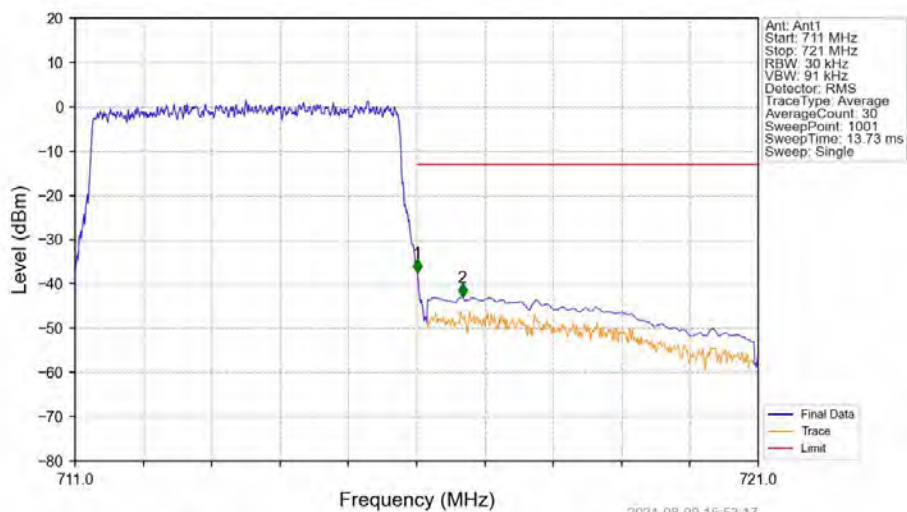


Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



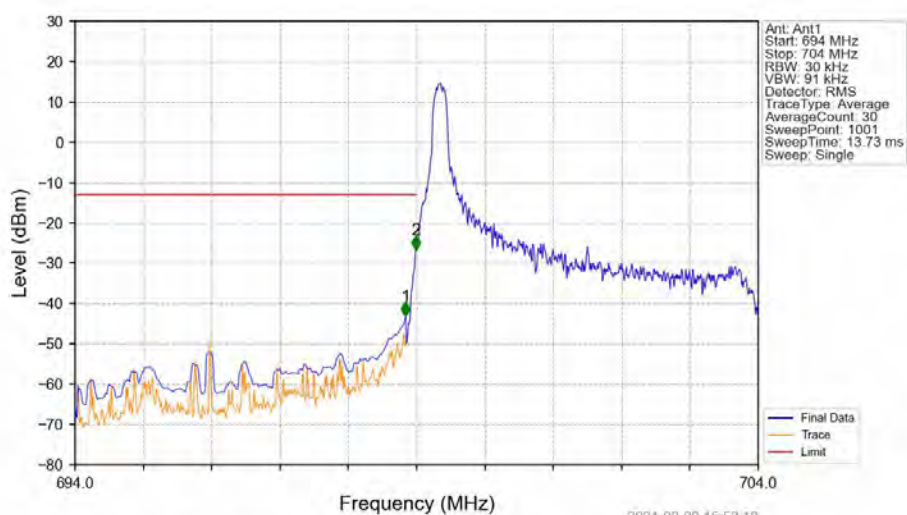
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-24.72	-13	Pass
716.1	721	0.1	CHP	2	716.160	-36.79	-13	Pass

Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



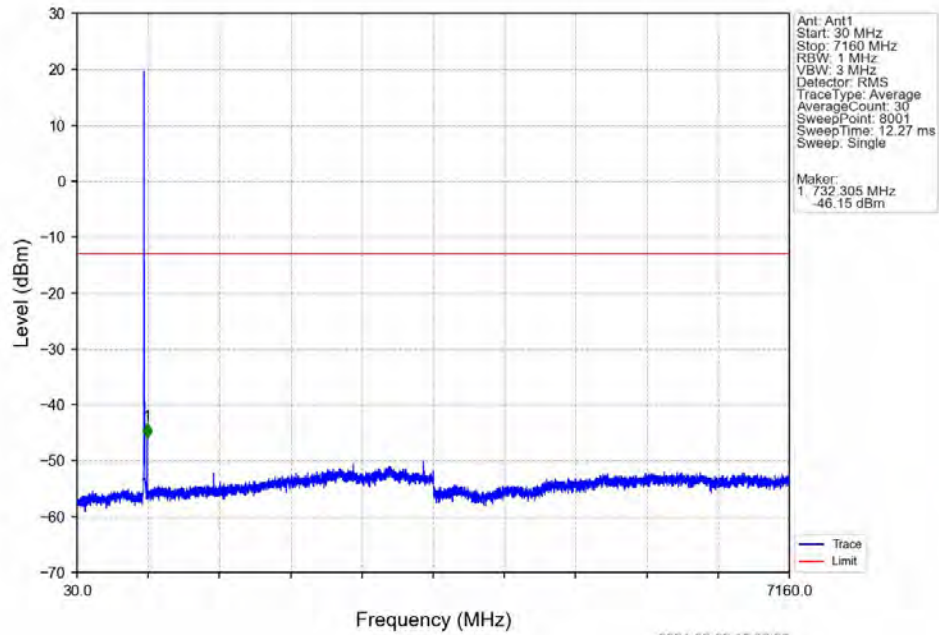
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-37.57	-13	Pass
716.1	721	0.1	CHP	2	716.670	-42.92	-13	Pass

Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV

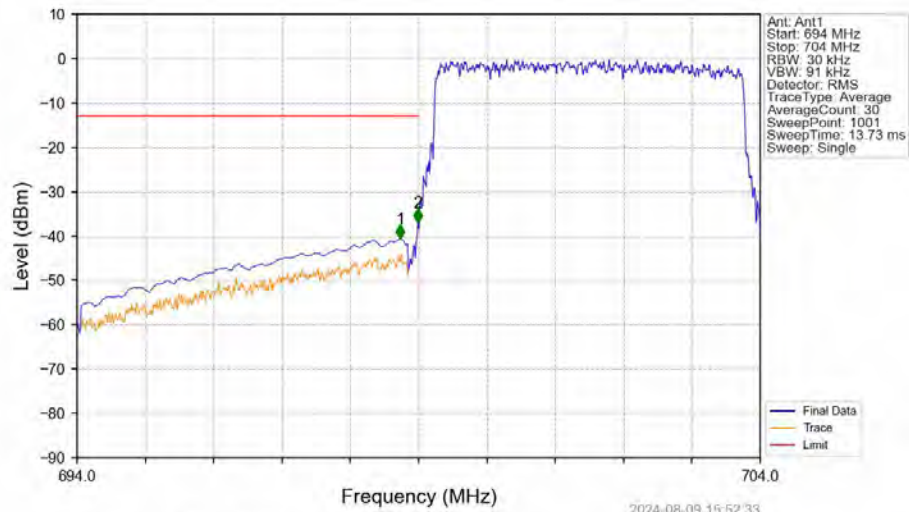


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.840	-43.13	-13	Pass
698.9	699	0.03	/	2	698.990	-26.55	-13	Pass
699	704	0.03	/	/	/	/	/	/

Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV

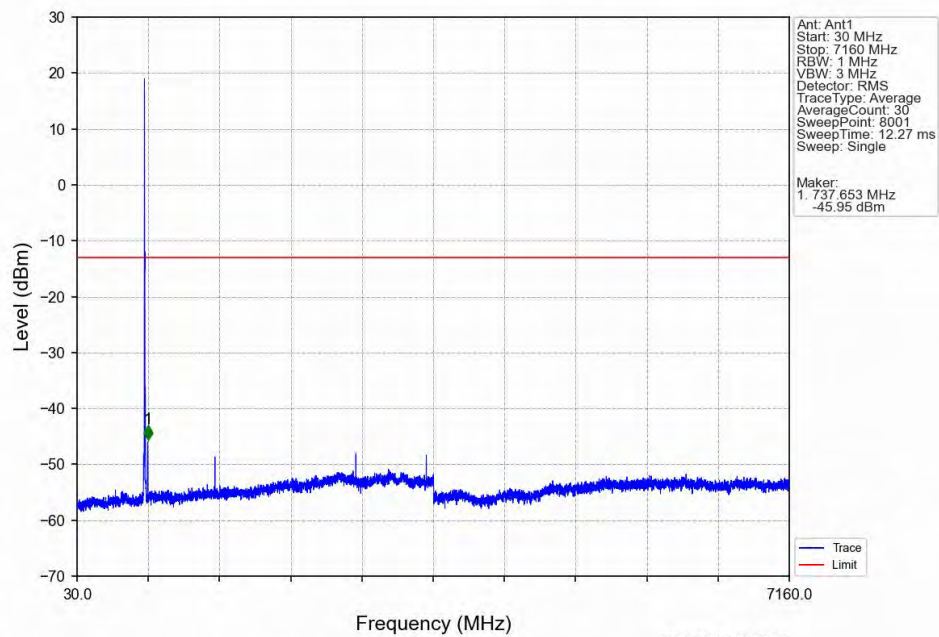


Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV

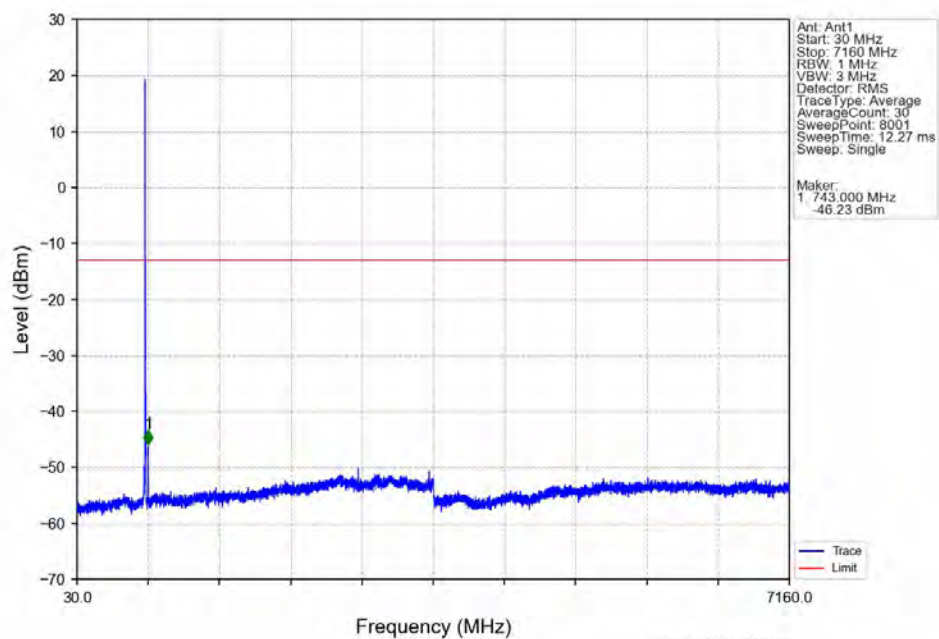


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.730	-40.66	-13	Pass
698.9	699	0.03	/	2	698.990	-37.02	-13	Pass
699	704	0.03	/	/	/	/	/	/

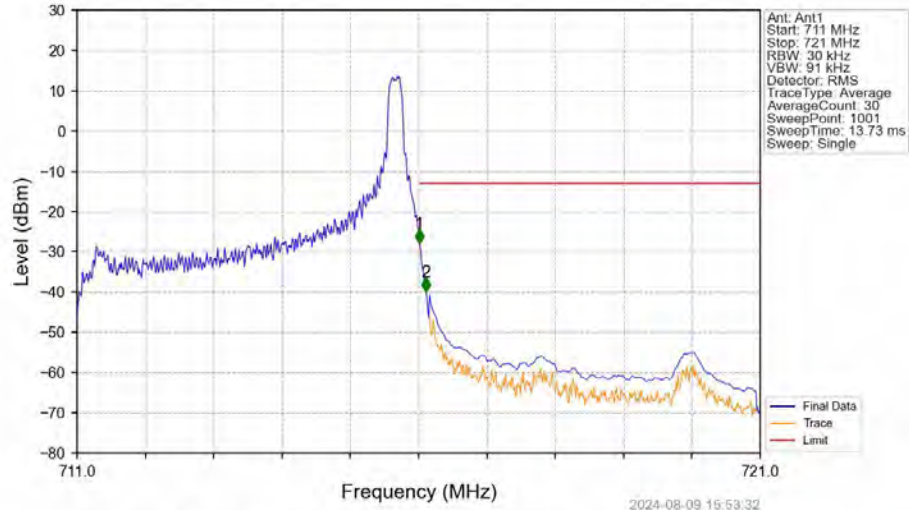
Band12_5MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV

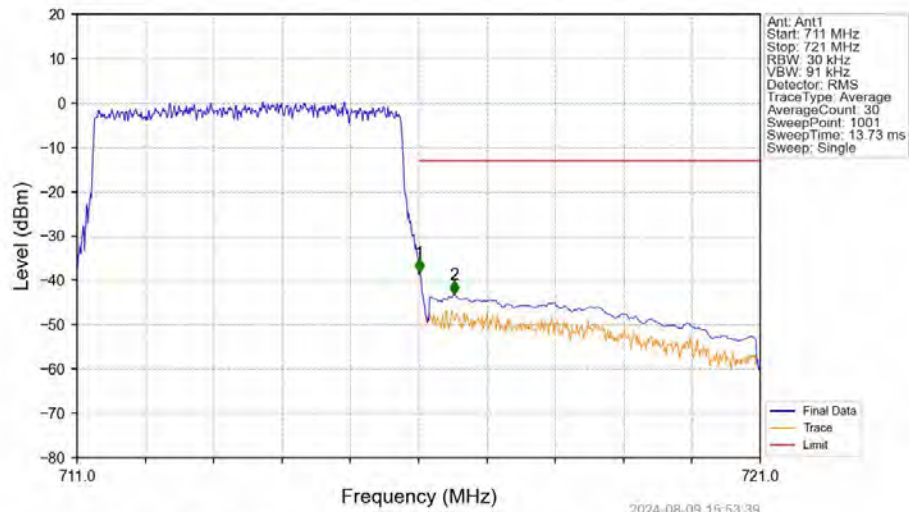


Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_24_NTNV



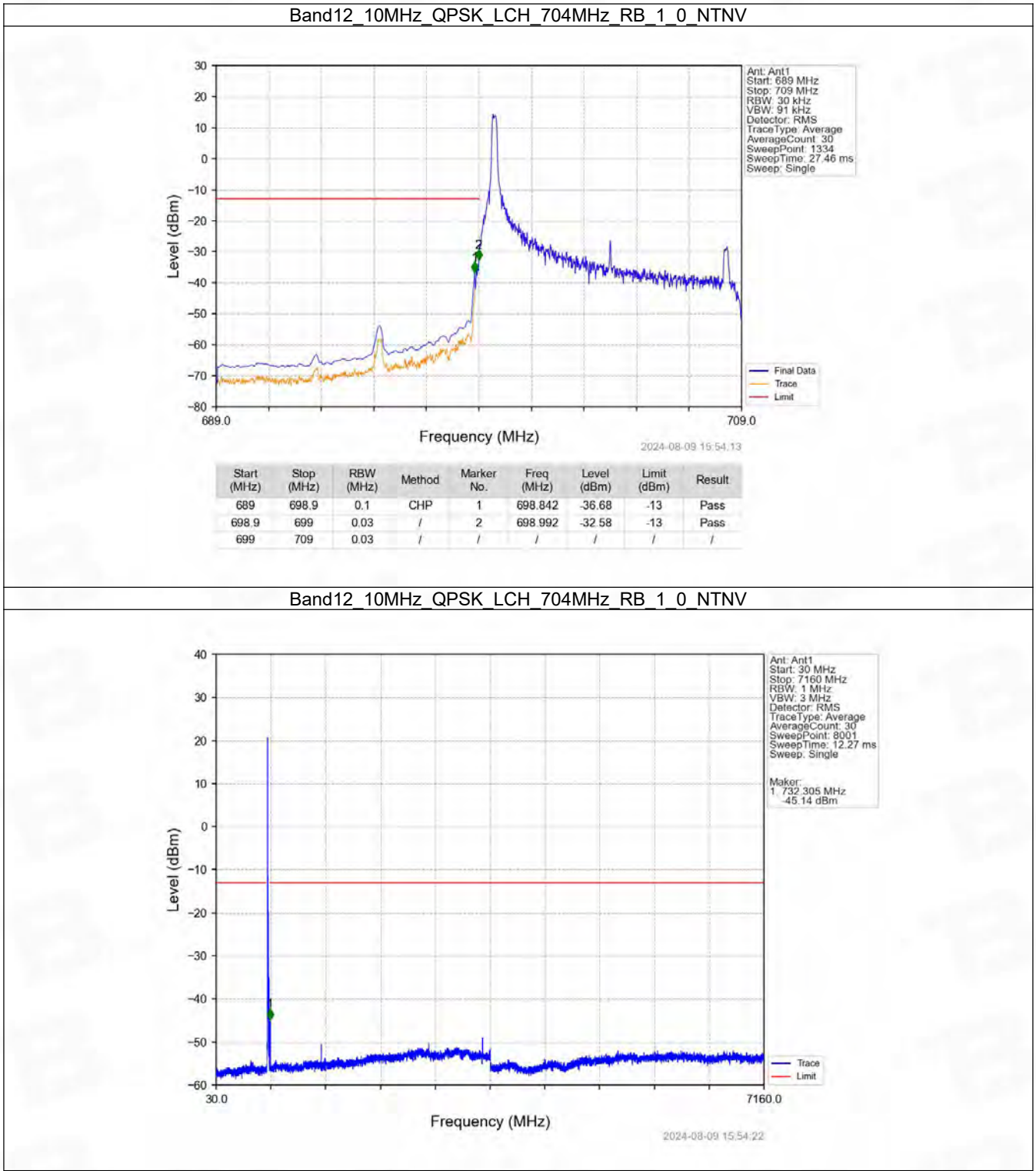
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-27.89	-13	Pass
716.1	721	0.1	CHP	2	716.110	-39.82	-13	Pass

Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

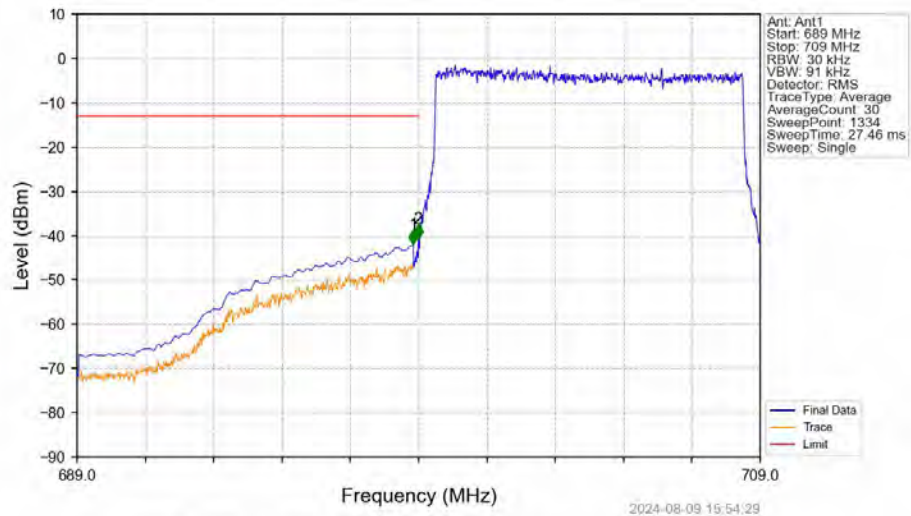


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-38.30	-13	Pass
716.1	721	0.1	CHP	2	716.520	-43.22	-13	Pass

6.2.4 B12_10MHz

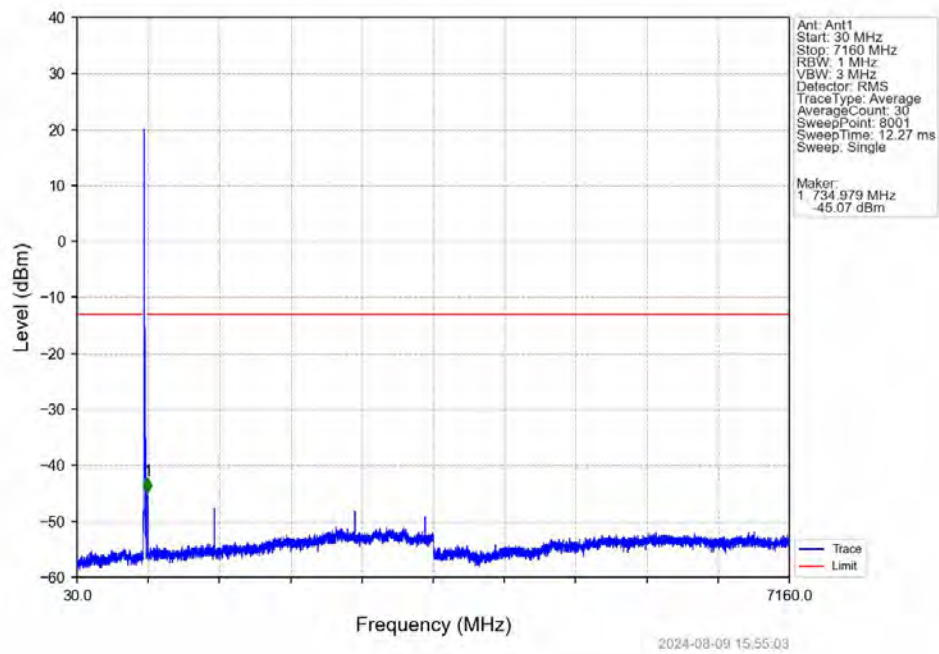


Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV

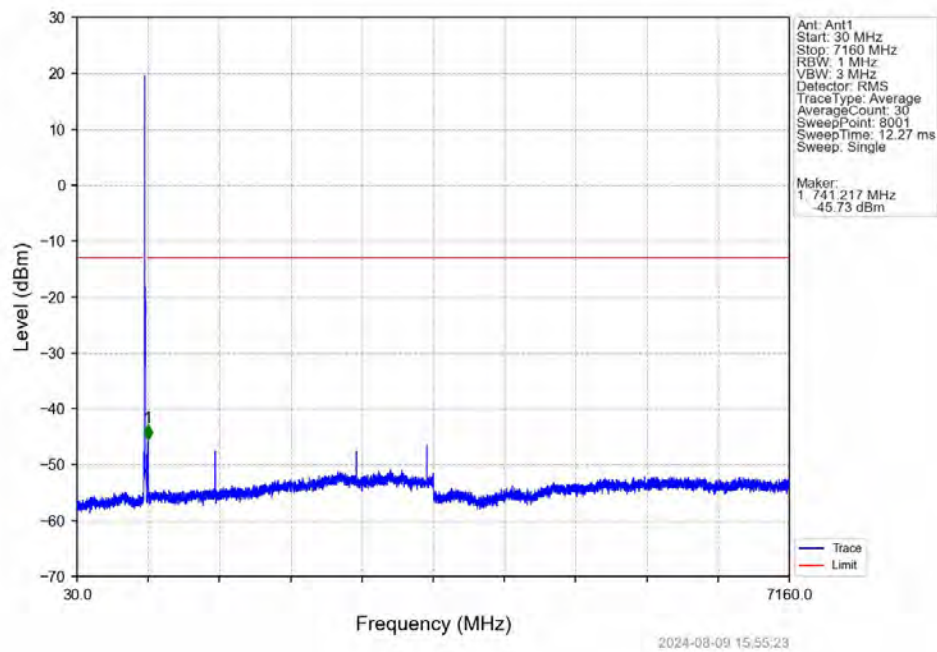


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-41.78	-13	Pass
698.9	699	0.03	/	2	698.992	-40.60	-13	Pass
699	709	0.03	/	/	/	/	/	/

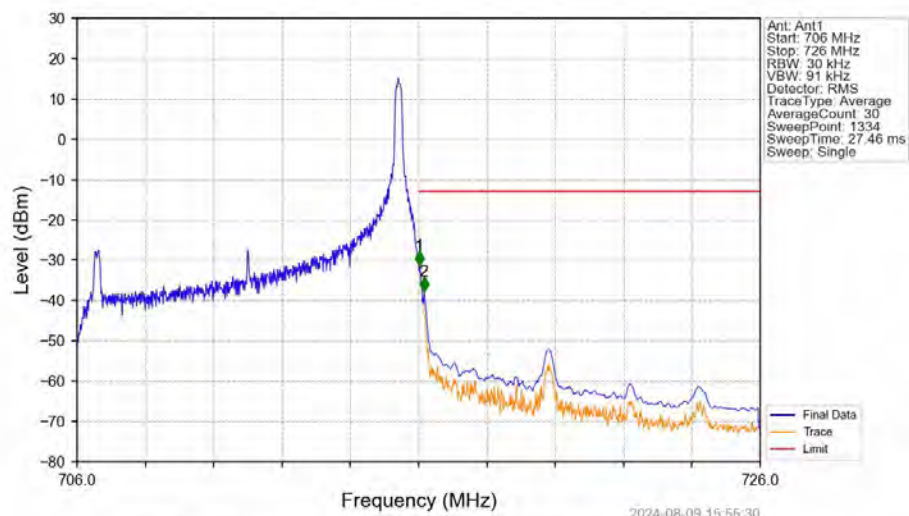
Band12_10MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

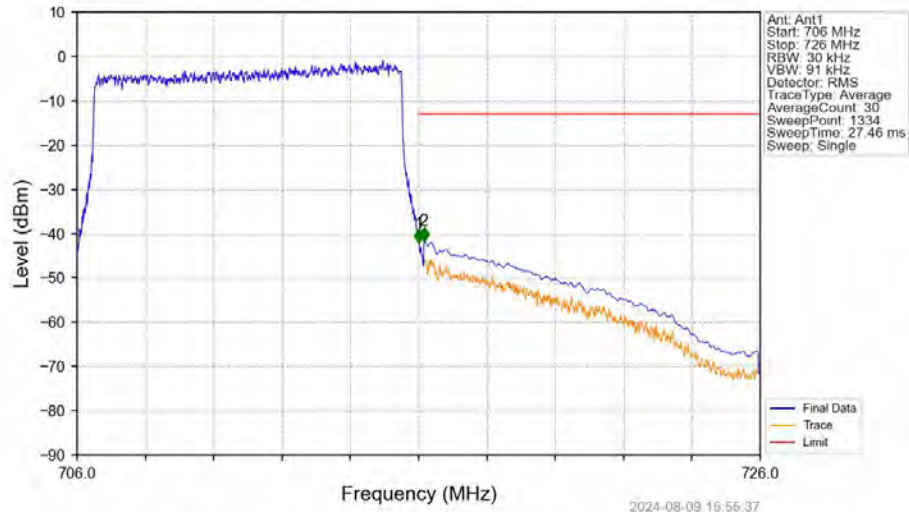


Band12_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV

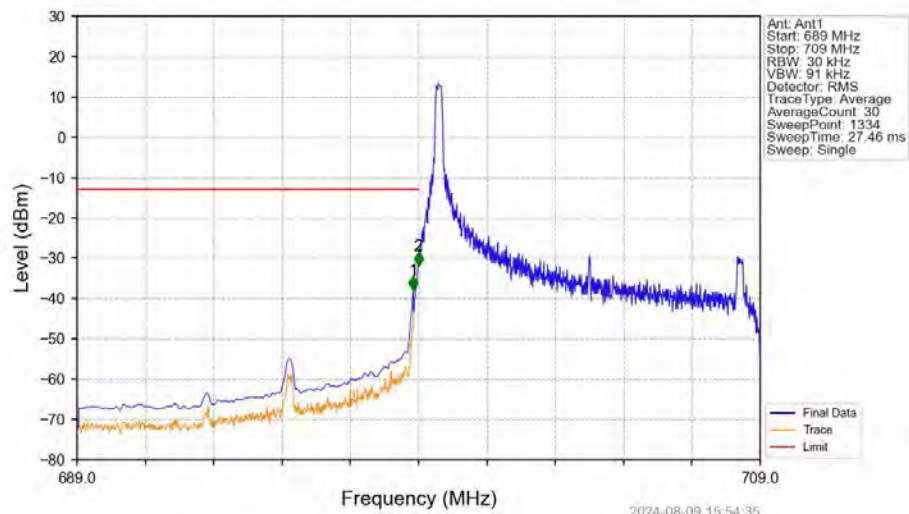


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.023	-31.31	-13	Pass
716.1	726	0.1	CHP	2	716.158	-37.61	-13	Pass

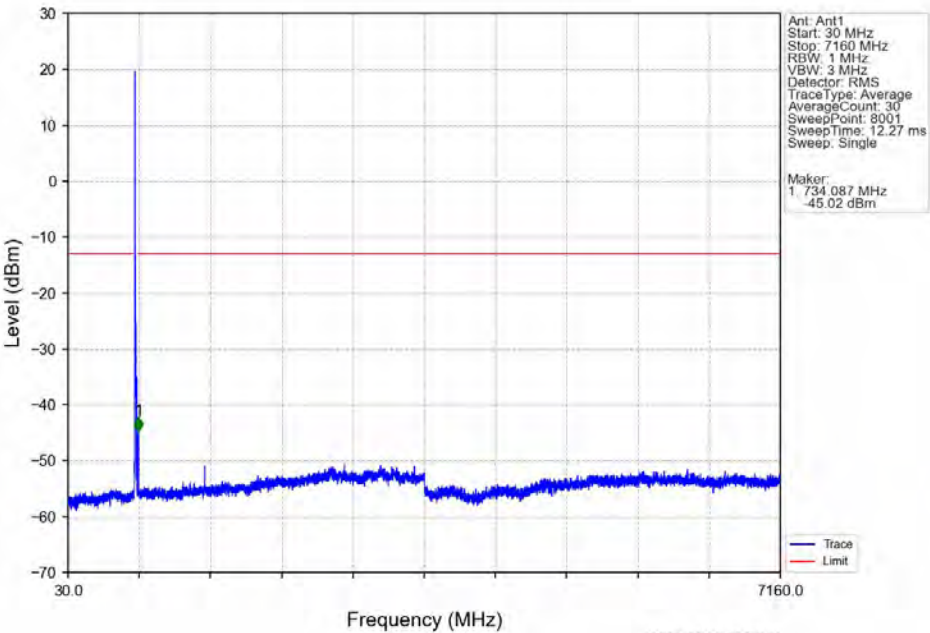
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



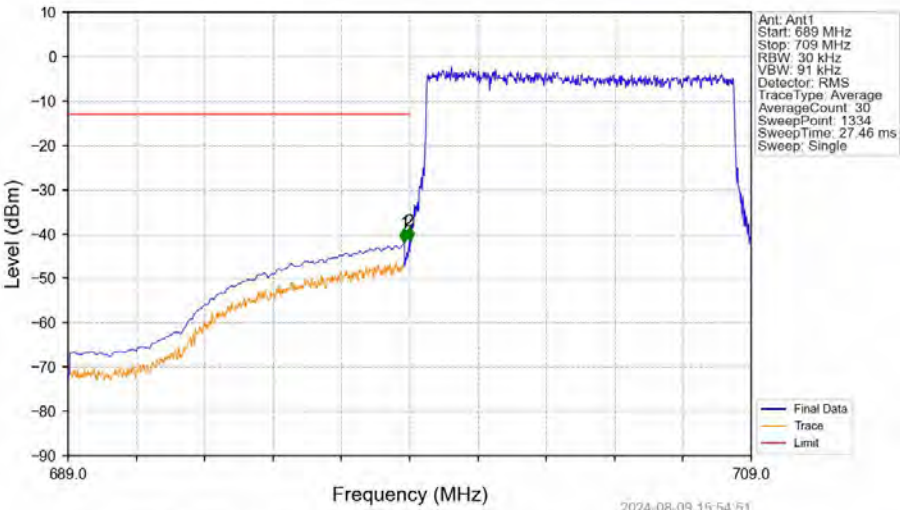
Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV



Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV

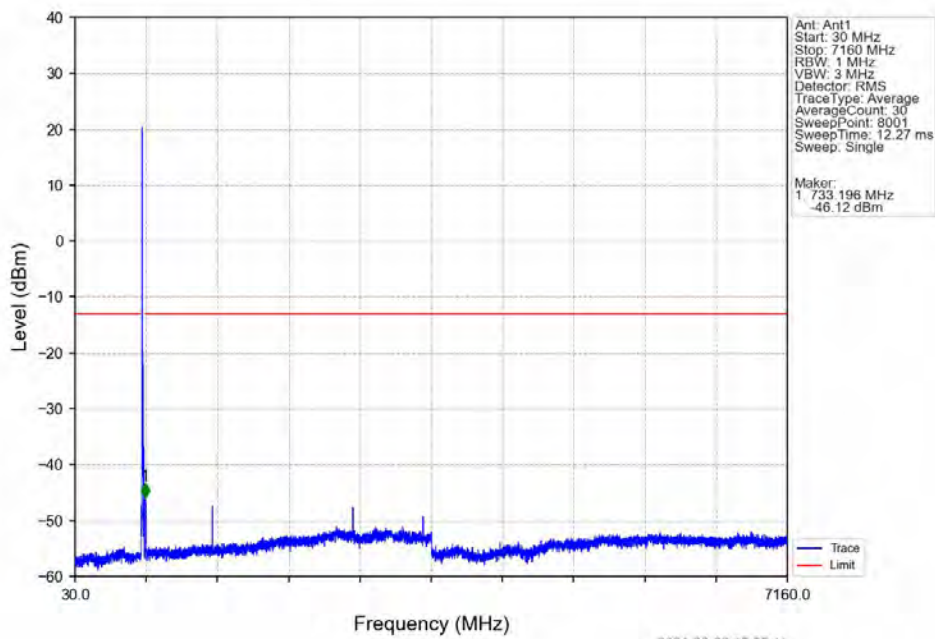


Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV

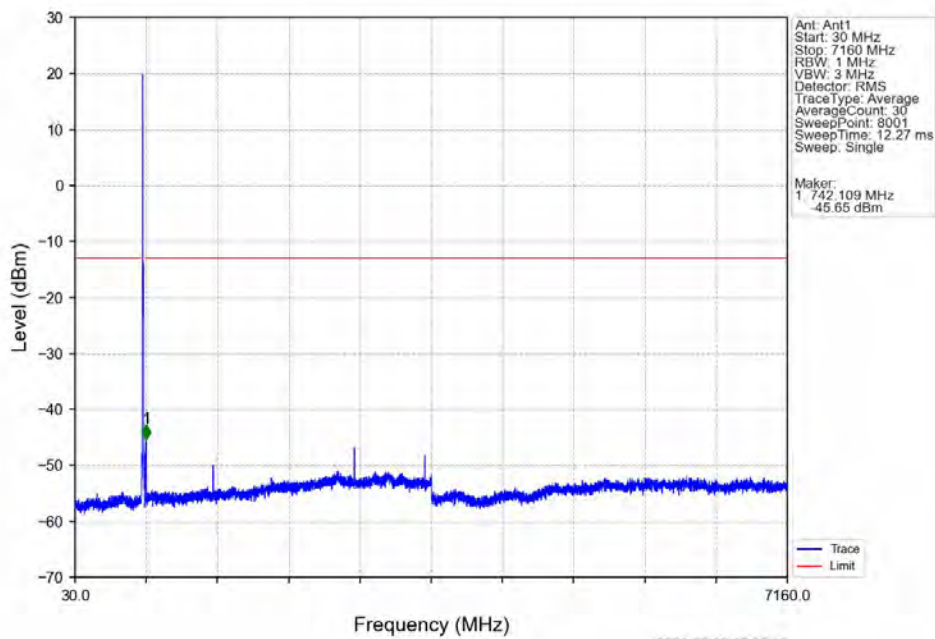


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-41.80	-13	Pass
698.9	699	0.03	/	2	698.992	-41.45	-13	Pass
699	709	0.03	/	/	/	/	/	/

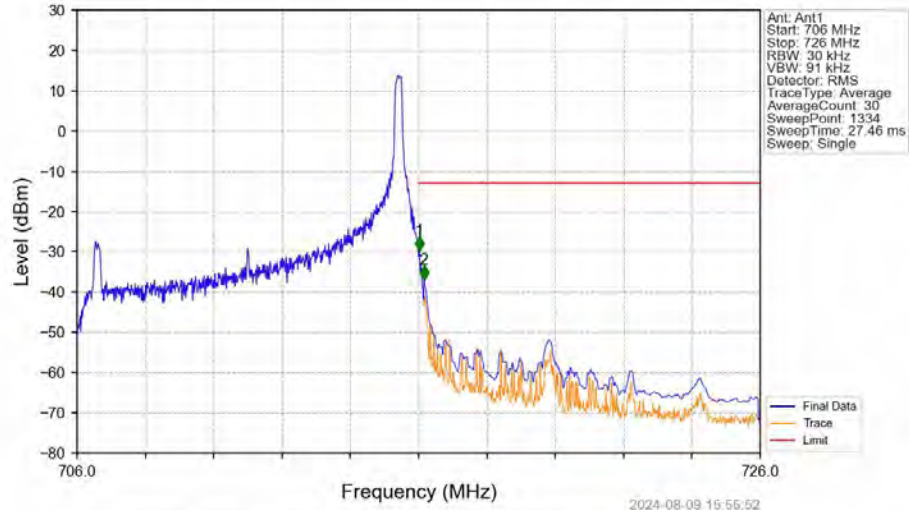
Band12_10MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



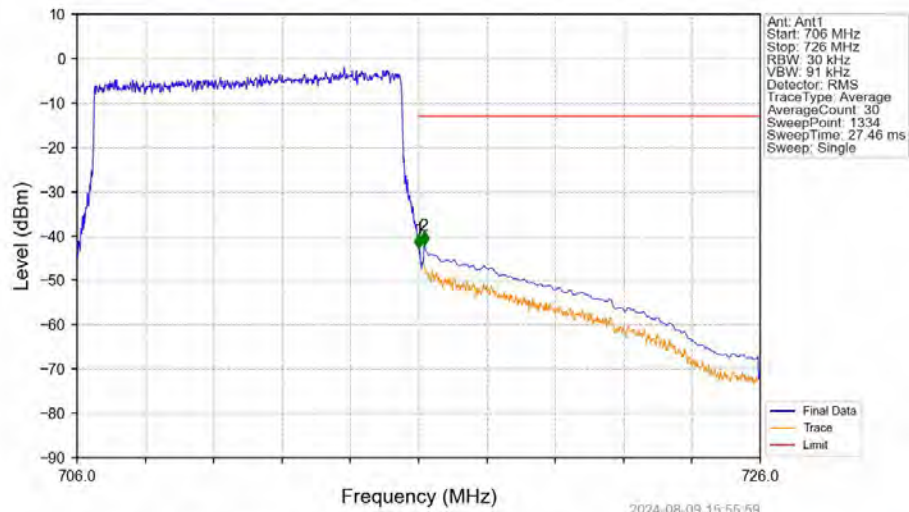
Band12_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_1_49_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



7. Form731

7.1 Test Result

7.1.1 Form731_Power

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
12	1.4	699.7	715.3	0.1618	0.0595	ppm	1M12G7D	27H	22.09
12	1.4	699.7	715.3	0.1574	0.0571	ppm	1M12W7D	27H	21.97
12	3	700.5	714.5	0.1589	0.0595	ppm	2M76G7D	27H	22.01
12	3	700.5	714.5	0.1556	0.0642	ppm	2M76W7D	27H	21.92
12	5	701.5	713.5	0.1567	0.0628	ppm	4M55G7D	27H	21.95
12	5	701.5	713.5	0.1390	0.0494	ppm	4M57W7D	27H	21.43
12	10	704	711	0.1552	0.0648	ppm	9M10G7D	27H	21.91
12	10	704	711	0.1503	0.0384	ppm	9M09W7D	27H	21.77

7.1.2 Form731_ERP

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
12	1.4	699.7	715.3	0.0551	0.0595	ppm	1M12G7D	27H	17.41
12	1.4	699.7	715.3	0.0536	0.0571	ppm	1M12W7D	27H	17.29
12	3	700.5	714.5	0.0541	0.0595	ppm	2M76G7D	27H	17.33
12	3	700.5	714.5	0.0530	0.0642	ppm	2M76W7D	27H	17.24
12	5	701.5	713.5	0.0533	0.0628	ppm	4M55G7D	27H	17.27
12	5	701.5	713.5	0.0473	0.0494	ppm	4M57W7D	27H	16.75
12	10	704	711	0.0528	0.0648	ppm	9M10G7D	27H	17.23
12	10	704	711	0.0512	0.0384	ppm	9M09W7D	27H	17.09