

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	21.83	-2.32	17.36	<=34.77	Pass		
			2	21.82	-2.32	17.35	<=34.77	Pass		
			5	21.82	-2.32	17.35	<=34.77	Pass		
		3	0	21.75	-2.32	17.28	<=34.77	Pass		
			2	21.78	-2.32	17.31	<=34.77	Pass		
			3	21.78	-2.32	17.31	<=34.77	Pass		
		6	0	21.19	-2.32	16.72	<=34.77	Pass		
		707.5	1	0	21.65	-2.32	17.18	<=34.77	Pass	
				2	21.63	-2.32	17.16	<=34.77	Pass	
	5			21.68	-2.32	17.21	<=34.77	Pass		
	3		0	21.85	-2.32	17.38	<=34.77	Pass		
			2	21.82	-2.32	17.35	<=34.77	Pass		
			3	21.83	-2.32	17.36	<=34.77	Pass		
	6		0	21.21	-2.32	16.74	<=34.77	Pass		
	715.3		1	0	21.77	-2.32	17.30	<=34.77	Pass	
				2	21.83	-2.32	17.36	<=34.77	Pass	
		5		21.91	-2.32	17.44	<=34.77	Pass		
		3	0	21.70	-2.32	17.23	<=34.77	Pass		
			2	21.67	-2.32	17.20	<=34.77	Pass		
			3	21.66	-2.32	17.19	<=34.77	Pass		
		6	0	21.22	-2.32	16.75	<=34.77	Pass		
		16QAM	699.7	1	0	20.77	-2.32	16.30	<=34.77	Pass
					2	20.73	-2.32	16.26	<=34.77	Pass
	5				20.77	-2.32	16.30	<=34.77	Pass	
3	0			20.55	-2.32	16.08	<=34.77	Pass		
	2			20.43	-2.32	15.96	<=34.77	Pass		
	3			20.71	-2.32	16.24	<=34.77	Pass		
6	0			20.23	-2.32	15.76	<=34.77	Pass		
707.5	1			0	21.42	-2.32	16.95	<=34.77	Pass	
				2	21.37	-2.32	16.90	<=34.77	Pass	
			5	21.34	-2.32	16.87	<=34.77	Pass		
	3		0	20.63	-2.32	16.16	<=34.77	Pass		
			2	20.70	-2.32	16.23	<=34.77	Pass		
			3	20.61	-2.32	16.14	<=34.77	Pass		
	6		0	19.73	-2.32	15.26	<=34.77	Pass		
	715.3		1	0	20.80	-2.32	16.33	<=34.77	Pass	
				2	20.88	-2.32	16.41	<=34.77	Pass	
5				20.85	-2.32	16.38	<=34.77	Pass		
3			0	20.49	-2.32	16.02	<=34.77	Pass		
			2	20.53	-2.32	16.06	<=34.77	Pass		
			3	20.46	-2.32	15.99	<=34.77	Pass		
6			0	19.89	-2.32	15.42	<=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	21.94	-2.32	17.47	<=34.77	Pass
			7	21.85	-2.32	17.38	<=34.77	Pass
			14	21.90	-2.32	17.43	<=34.77	Pass
		8	0	21.20	-2.32	16.73	<=34.77	Pass
			4	21.23	-2.32	16.76	<=34.77	Pass
			7	21.28	-2.32	16.81	<=34.77	Pass
		15	0	21.28	-2.32	16.81	<=34.77	Pass
	707.5	1	0	21.60	-2.32	17.13	<=34.77	Pass
			7	21.61	-2.32	17.14	<=34.77	Pass
			14	21.61	-2.32	17.14	<=34.77	Pass
		8	0	21.13	-2.32	16.66	<=34.77	Pass
			4	21.23	-2.32	16.76	<=34.77	Pass
			7	21.20	-2.32	16.73	<=34.77	Pass
		15	0	21.25	-2.32	16.78	<=34.77	Pass
	714.5	1	0	21.73	-2.32	17.26	<=34.77	Pass
			7	21.71	-2.32	17.24	<=34.77	Pass
			14	21.75	-2.32	17.28	<=34.77	Pass
		8	0	21.27	-2.32	16.80	<=34.77	Pass
			4	21.21	-2.32	16.74	<=34.77	Pass
			7	21.30	-2.32	16.83	<=34.77	Pass
		15	0	21.32	-2.32	16.85	<=34.77	Pass
16QAM	700.5	1	0	20.82	-2.32	16.35	<=34.77	Pass
			7	20.77	-2.32	16.30	<=34.77	Pass
			14	20.86	-2.32	16.39	<=34.77	Pass
		8	0	20.32	-2.32	15.85	<=34.77	Pass
			4	20.32	-2.32	15.85	<=34.77	Pass
			7	19.96	-2.32	15.49	<=34.77	Pass
		15	0	20.23	-2.32	15.76	<=34.77	Pass
	707.5	1	0	22.01	-2.32	17.54	<=34.77	Pass
			7	22.06	-2.32	17.59	<=34.77	Pass
			14	22.04	-2.32	17.57	<=34.77	Pass
		8	0	19.73	-2.32	15.26	<=34.77	Pass
			4	19.73	-2.32	15.26	<=34.77	Pass
			7	19.82	-2.32	15.35	<=34.77	Pass
		15	0	19.85	-2.32	15.38	<=34.77	Pass
	714.5	1	0	21.43	-2.32	16.96	<=34.77	Pass
			7	21.38	-2.32	16.91	<=34.77	Pass
			14	21.40	-2.32	16.93	<=34.77	Pass
		8	0	19.98	-2.32	15.51	<=34.77	Pass
			4	19.97	-2.32	15.50	<=34.77	Pass
			7	20.05	-2.32	15.58	<=34.77	Pass
		15	0	19.73	-2.32	15.26	<=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	21.61	-2.32	17.14	<=34.77	Pass
			13	21.63	-2.32	17.16	<=34.77	Pass
			24	21.62	-2.32	17.15	<=34.77	Pass
		12	0	21.18	-2.32	16.71	<=34.77	Pass
			6	21.30	-2.32	16.83	<=34.77	Pass
			13	21.22	-2.32	16.75	<=34.77	Pass

16QAM	707.5	25	0	21.20	-2.32	16.73	<=34.77	Pass
		1	0	21.66	-2.32	17.19	<=34.77	Pass
			13	21.62	-2.32	17.15	<=34.77	Pass
			24	21.76	-2.32	17.29	<=34.77	Pass
		12	0	21.20	-2.32	16.73	<=34.77	Pass
			6	21.30	-2.32	16.83	<=34.77	Pass
			13	21.24	-2.32	16.77	<=34.77	Pass
		25	0	21.31	-2.32	16.84	<=34.77	Pass
	713.5	1	0	21.74	-2.32	17.27	<=34.77	Pass
			13	21.77	-2.32	17.30	<=34.77	Pass
			24	21.70	-2.32	17.23	<=34.77	Pass
		12	0	21.22	-2.32	16.75	<=34.77	Pass
			6	21.24	-2.32	16.77	<=34.77	Pass
			13	21.19	-2.32	16.72	<=34.77	Pass
		25	0	21.29	-2.32	16.82	<=34.77	Pass
16QAM	701.5	1	0	21.20	-2.32	16.73	<=34.77	Pass
			13	21.20	-2.32	16.73	<=34.77	Pass
			24	21.27	-2.32	16.80	<=34.77	Pass
		12	0	20.19	-2.32	15.72	<=34.77	Pass
			6	19.76	-2.32	15.29	<=34.77	Pass
			13	19.79	-2.32	15.32	<=34.77	Pass
		25	0	19.87	-2.32	15.40	<=34.77	Pass
	707.5	1	0	21.17	-2.32	16.70	<=34.77	Pass
			13	21.13	-2.32	16.66	<=34.77	Pass
			24	21.18	-2.32	16.71	<=34.77	Pass
		12	0	19.71	-2.32	15.24	<=34.77	Pass
			6	19.78	-2.32	15.31	<=34.77	Pass
			13	19.81	-2.32	15.34	<=34.77	Pass
		25	0	19.79	-2.32	15.32	<=34.77	Pass
	713.5	1	0	20.24	-2.32	15.77	<=34.77	Pass
			13	20.35	-2.32	15.88	<=34.77	Pass
			24	20.36	-2.32	15.89	<=34.77	Pass
		12	0	19.71	-2.32	15.24	<=34.77	Pass
			6	19.75	-2.32	15.28	<=34.77	Pass
			13	19.63	-2.32	15.16	<=34.77	Pass
		25	0	19.76	-2.32	15.29	<=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	21.70	-2.32	17.23	<=34.77	Pass
			25	21.62	-2.32	17.15	<=34.77	Pass
			49	21.72	-2.32	17.25	<=34.77	Pass
		25	0	21.18	-2.32	16.71	<=34.77	Pass
			13	21.23	-2.32	16.76	<=34.77	Pass
			25	21.24	-2.32	16.77	<=34.77	Pass
		50	0	21.16	-2.32	16.69	<=34.77	Pass
	707.5	1	0	21.90	-2.32	17.43	<=34.77	Pass
			25	21.74	-2.32	17.27	<=34.77	Pass
			49	21.77	-2.32	17.30	<=34.77	Pass
		25	0	21.22	-2.32	16.75	<=34.77	Pass
			13	21.26	-2.32	16.79	<=34.77	Pass
			25	21.29	-2.32	16.82	<=34.77	Pass
		50	0	21.25	-2.32	16.78	<=34.77	Pass

16QAM	711	1	0	21.61	-2.32	17.14	<=34.77	Pass
			25	21.66	-2.32	17.19	<=34.77	Pass
			49	21.73	-2.32	17.26	<=34.77	Pass
		25	0	21.14	-2.32	16.67	<=34.77	Pass
			13	21.20	-2.32	16.73	<=34.77	Pass
			25	21.24	-2.32	16.77	<=34.77	Pass
		50	0	21.27	-2.32	16.80	<=34.77	Pass
			0	20.82	-2.32	16.35	<=34.77	Pass
			25	20.93	-2.32	16.46	<=34.77	Pass
16QAM	704	1	49	20.89	-2.32	16.42	<=34.77	Pass
			0	19.95	-2.32	15.48	<=34.77	Pass
			13	19.86	-2.32	15.39	<=34.77	Pass
		25	25	19.85	-2.32	15.38	<=34.77	Pass
			0	19.72	-2.32	15.25	<=34.77	Pass
			0	21.21	-2.32	16.74	<=34.77	Pass
		25	25	21.39	-2.32	16.92	<=34.77	Pass
			49	21.28	-2.32	16.81	<=34.77	Pass
			0	19.83	-2.32	15.36	<=34.77	Pass
16QAM	707.5	1	13	19.75	-2.32	15.28	<=34.77	Pass
			25	20.25	-2.32	15.78	<=34.77	Pass
			0	19.72	-2.32	15.25	<=34.77	Pass
		25	0	21.61	-2.32	17.14	<=34.77	Pass
			25	21.59	-2.32	17.12	<=34.77	Pass
			49	21.56	-2.32	17.09	<=34.77	Pass
		50	0	19.75	-2.32	15.28	<=34.77	Pass
			13	20.15	-2.32	15.68	<=34.77	Pass
			25	19.70	-2.32	15.23	<=34.77	Pass
16QAM	711	1	0	20.14	-2.32	15.67	<=34.77	Pass
			0	21.61	-2.32	17.14	<=34.77	Pass
			25	21.59	-2.32	17.12	<=34.77	Pass
		25	49	21.56	-2.32	17.09	<=34.77	Pass
			0	19.75	-2.32	15.28	<=34.77	Pass
			13	20.15	-2.32	15.68	<=34.77	Pass
		50	25	19.70	-2.32	15.23	<=34.77	Pass
			0	20.14	-2.32	15.67	<=34.77	Pass
			0	21.61	-2.32	17.14	<=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	30.384	0.0434	-2.5 to 2.5	Pass
					3.85	13.361	0.0191	-2.5 to 2.5	Pass
					4.43	-18.482	-0.0264	-2.5 to 2.5	Pass
				-30	3.85	-39.067	-0.0558	-2.5 to 2.5	Pass
				-20	3.85	-19.169	-0.0274	-2.5 to 2.5	Pass
				-10	3.85	-28.296	-0.0404	-2.5 to 2.5	Pass
				0	3.85	-31.414	-0.0449	-2.5 to 2.5	Pass
				10	3.85	-38.824	-0.0555	-2.5 to 2.5	Pass
				30	3.85	-45.547	-0.0651	-2.5 to 2.5	Pass
				40	3.85	2.031	0.0029	-2.5 to 2.5	Pass
				50	3.85	4.292	0.0061	-2.5 to 2.5	Pass
				707.5	6	0	20	3.27	11.601
	3.85	23.589	0.0333					-2.5 to 2.5	Pass
	4.43	16.623	0.0235					-2.5 to 2.5	Pass
	-30	3.85	9.627				0.0136	-2.5 to 2.5	Pass
	-20	3.85	0.758				0.0011	-2.5 to 2.5	Pass
	-10	3.85	-2.060				-0.0029	-2.5 to 2.5	Pass

				0	3.85	-3.347	-0.0047	-2.5 to 2.5	Pass
				10	3.85	1.116	0.0016	-2.5 to 2.5	Pass
				30	3.85	0.715	0.0010	-2.5 to 2.5	Pass
				40	3.85	3.190	0.0045	-2.5 to 2.5	Pass
				50	3.85	3.691	0.0052	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	7.339	0.0103	-2.5 to 2.5	Pass
					3.85	-18.311	-0.0256	-2.5 to 2.5	Pass
					4.43	1.831	0.0026	-2.5 to 2.5	Pass
				-30	3.85	-14.033	-0.0196	-2.5 to 2.5	Pass
				-20	3.85	-30.413	-0.0425	-2.5 to 2.5	Pass
				-10	3.85	-39.554	-0.0553	-2.5 to 2.5	Pass
				0	3.85	-39.439	-0.0551	-2.5 to 2.5	Pass
				10	3.85	-41.800	-0.0584	-2.5 to 2.5	Pass
				30	3.85	-38.767	-0.0542	-2.5 to 2.5	Pass
				40	3.85	-42.701	-0.0597	-2.5 to 2.5	Pass
				50	3.85	-0.744	-0.0010	-2.5 to 2.5	Pass
16QAM	699.7	6	0	20	3.27	1.187	0.0017	-2.5 to 2.5	Pass
					3.85	10.443	0.0149	-2.5 to 2.5	Pass
					4.43	17.638	0.0252	-2.5 to 2.5	Pass
				-30	3.85	20.728	0.0296	-2.5 to 2.5	Pass
				-20	3.85	18.225	0.0260	-2.5 to 2.5	Pass
				-10	3.85	24.490	0.0350	-2.5 to 2.5	Pass
				0	3.85	21.801	0.0312	-2.5 to 2.5	Pass
				10	3.85	21.400	0.0306	-2.5 to 2.5	Pass
				30	3.85	19.312	0.0276	-2.5 to 2.5	Pass
				40	3.85	11.187	0.0160	-2.5 to 2.5	Pass
				50	3.85	15.793	0.0226	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	3.119	0.0044	-2.5 to 2.5	Pass
					3.85	15.049	0.0213	-2.5 to 2.5	Pass
					4.43	21.214	0.0300	-2.5 to 2.5	Pass
				-30	3.85	33.002	0.0466	-2.5 to 2.5	Pass
				-20	3.85	33.545	0.0474	-2.5 to 2.5	Pass
				-10	3.85	39.997	0.0565	-2.5 to 2.5	Pass
				0	3.85	1.888	0.0027	-2.5 to 2.5	Pass
				10	3.85	4.563	0.0064	-2.5 to 2.5	Pass
				30	3.85	9.384	0.0133	-2.5 to 2.5	Pass
				40	3.85	8.597	0.0122	-2.5 to 2.5	Pass
				50	3.85	21.687	0.0307	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	-6.595	-0.0092	-2.5 to 2.5	Pass
					3.85	11.973	0.0167	-2.5 to 2.5	Pass
					4.43	25.234	0.0353	-2.5 to 2.5	Pass
				-30	3.85	29.712	0.0415	-2.5 to 2.5	Pass
				-20	3.85	33.517	0.0469	-2.5 to 2.5	Pass
				-10	3.85	37.322	0.0522	-2.5 to 2.5	Pass
				0	3.85	44.374	0.0620	-2.5 to 2.5	Pass
				10	3.85	42.028	0.0588	-2.5 to 2.5	Pass
				30	3.85	42.357	0.0592	-2.5 to 2.5	Pass
				40	3.85	42.000	0.0587	-2.5 to 2.5	Pass
				50	3.85	48.680	0.0681	-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	15.121	0.0216	-2.5 to 2.5	Pass
					3.85	-44.160	-0.0630	-2.5 to 2.5	Pass

					4.43	-27.738	-0.0396	-2.5 to 2.5	Pass
				-30	3.85	-26.107	-0.0373	-2.5 to 2.5	Pass
				-20	3.85	-16.937	-0.0242	-2.5 to 2.5	Pass
				-10	3.85	-48.466	-0.0692	-2.5 to 2.5	Pass
				0	3.85	-16.322	-0.0233	-2.5 to 2.5	Pass
				10	3.85	-27.394	-0.0391	-2.5 to 2.5	Pass
				30	3.85	-43.774	-0.0625	-2.5 to 2.5	Pass
				40	3.85	-11.172	-0.0159	-2.5 to 2.5	Pass
				50	3.85	-25.620	-0.0366	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	9.899	0.0140	-2.5 to 2.5	Pass
					3.85	-0.043	-0.0001	-2.5 to 2.5	Pass
					4.43	-6.351	-0.0090	-2.5 to 2.5	Pass
				-30	3.85	-16.108	-0.0228	-2.5 to 2.5	Pass
				-20	3.85	-17.767	-0.0251	-2.5 to 2.5	Pass
				-10	3.85	-27.595	-0.0390	-2.5 to 2.5	Pass
				0	3.85	-24.362	-0.0344	-2.5 to 2.5	Pass
				10	3.85	-14.634	-0.0207	-2.5 to 2.5	Pass
				30	3.85	-21.687	-0.0307	-2.5 to 2.5	Pass
				40	3.85	-20.556	-0.0291	-2.5 to 2.5	Pass
				50	3.85	-23.975	-0.0339	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	11.230	0.0157	-2.5 to 2.5	Pass
					3.85	-6.008	-0.0084	-2.5 to 2.5	Pass
					4.43	-33.331	-0.0466	-2.5 to 2.5	Pass
				-30	3.85	-45.090	-0.0631	-2.5 to 2.5	Pass
				-20	3.85	-1.345	-0.0019	-2.5 to 2.5	Pass
				-10	3.85	-9.971	-0.0140	-2.5 to 2.5	Pass
				0	3.85	-10.214	-0.0143	-2.5 to 2.5	Pass
				10	3.85	-19.369	-0.0271	-2.5 to 2.5	Pass
				30	3.85	-22.402	-0.0314	-2.5 to 2.5	Pass
				40	3.85	-30.198	-0.0423	-2.5 to 2.5	Pass
				50	3.85	-34.232	-0.0479	-2.5 to 2.5	Pass
16QAM	700.5	15	0	20	3.27	-43.745	-0.0624	-2.5 to 2.5	Pass
					3.85	-43.416	-0.0620	-2.5 to 2.5	Pass
					4.43	-30.341	-0.0433	-2.5 to 2.5	Pass
				-30	3.85	-17.724	-0.0253	-2.5 to 2.5	Pass
				-20	3.85	-18.826	-0.0269	-2.5 to 2.5	Pass
				-10	3.85	-15.135	-0.0216	-2.5 to 2.5	Pass
				0	3.85	-14.663	-0.0209	-2.5 to 2.5	Pass
				10	3.85	-14.720	-0.0210	-2.5 to 2.5	Pass
				30	3.85	-11.401	-0.0163	-2.5 to 2.5	Pass
				40	3.85	-9.842	-0.0140	-2.5 to 2.5	Pass
				50	3.85	-14.977	-0.0214	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	-26.221	-0.0371	-2.5 to 2.5	Pass
					3.85	-6.437	-0.0091	-2.5 to 2.5	Pass
					4.43	8.669	0.0123	-2.5 to 2.5	Pass
				-30	3.85	18.325	0.0259	-2.5 to 2.5	Pass
				-20	3.85	12.646	0.0179	-2.5 to 2.5	Pass
				-10	3.85	9.770	0.0138	-2.5 to 2.5	Pass
				0	3.85	8.283	0.0117	-2.5 to 2.5	Pass
				10	3.85	8.326	0.0118	-2.5 to 2.5	Pass
				30	3.85	8.183	0.0116	-2.5 to 2.5	Pass
				40	3.85	7.052	0.0100	-2.5 to 2.5	Pass
				50	3.85	15.793	0.0223	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-33.202	-0.0465	-2.5 to 2.5	Pass
					3.85	-24.576	-0.0344	-2.5 to 2.5	Pass
					4.43	-15.821	-0.0221	-2.5 to 2.5	Pass
				-30	3.85	-13.061	-0.0183	-2.5 to 2.5	Pass
				-20	3.85	-14.606	-0.0204	-2.5 to 2.5	Pass
				-10	3.85	-6.065	-0.0085	-2.5 to 2.5	Pass

				0	3.85	0.401	0.0006	-2.5 to 2.5	Pass
				10	3.85	-3.090	-0.0043	-2.5 to 2.5	Pass
				30	3.85	8.812	0.0123	-2.5 to 2.5	Pass
				40	3.85	11.687	0.0164	-2.5 to 2.5	Pass
				50	3.85	20.142	0.0282	-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	14.119	0.0201	-2.5 to 2.5	Pass
					3.85	-12.374	-0.0176	-2.5 to 2.5	Pass
					4.43	-33.374	-0.0476	-2.5 to 2.5	Pass
				-30	3.85	-7.939	-0.0113	-2.5 to 2.5	Pass
				-20	3.85	-8.154	-0.0116	-2.5 to 2.5	Pass
				-10	3.85	-29.497	-0.0420	-2.5 to 2.5	Pass
				0	3.85	-17.352	-0.0247	-2.5 to 2.5	Pass
				10	3.85	-34.690	-0.0495	-2.5 to 2.5	Pass
				30	3.85	-40.197	-0.0573	-2.5 to 2.5	Pass
				40	3.85	-3.233	-0.0046	-2.5 to 2.5	Pass
				50	3.85	-7.997	-0.0114	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	14.491	0.0205	-2.5 to 2.5	Pass
					3.85	5.493	0.0078	-2.5 to 2.5	Pass
					4.43	-12.631	-0.0179	-2.5 to 2.5	Pass
				-30	3.85	-33.417	-0.0472	-2.5 to 2.5	Pass
				-20	3.85	-37.608	-0.0532	-2.5 to 2.5	Pass
				-10	3.85	-32.973	-0.0466	-2.5 to 2.5	Pass
				0	3.85	-47.364	-0.0669	-2.5 to 2.5	Pass
				10	3.85	-4.406	-0.0062	-2.5 to 2.5	Pass
				30	3.85	-10.057	-0.0142	-2.5 to 2.5	Pass
				40	3.85	-16.866	-0.0238	-2.5 to 2.5	Pass
				50	3.85	-28.768	-0.0407	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	19.469	0.0273	-2.5 to 2.5	Pass
					3.85	21.744	0.0305	-2.5 to 2.5	Pass
					4.43	4.435	0.0062	-2.5 to 2.5	Pass
				-30	3.85	-4.621	-0.0065	-2.5 to 2.5	Pass
				-20	3.85	2.832	0.0040	-2.5 to 2.5	Pass
				-10	3.85	-3.204	-0.0045	-2.5 to 2.5	Pass
				0	3.85	-1.845	-0.0026	-2.5 to 2.5	Pass
				10	3.85	-1.545	-0.0022	-2.5 to 2.5	Pass
				30	3.85	-1.574	-0.0022	-2.5 to 2.5	Pass
				40	3.85	6.180	0.0087	-2.5 to 2.5	Pass
16QAM	701.5	25	0	20	3.27	-13.604	-0.0194	-2.5 to 2.5	Pass
					3.85	-11.673	-0.0166	-2.5 to 2.5	Pass
					4.43	-8.154	-0.0116	-2.5 to 2.5	Pass
				-30	3.85	-4.234	-0.0060	-2.5 to 2.5	Pass
				-20	3.85	9.155	0.0131	-2.5 to 2.5	Pass
				-10	3.85	8.411	0.0120	-2.5 to 2.5	Pass
				0	3.85	7.167	0.0102	-2.5 to 2.5	Pass
				10	3.85	2.160	0.0031	-2.5 to 2.5	Pass
				30	3.85	4.978	0.0071	-2.5 to 2.5	Pass
				40	3.85	0.587	0.0008	-2.5 to 2.5	Pass
				50	3.85	4.950	0.0071	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-27.823	-0.0393	-2.5 to 2.5	Pass
					3.85	-11.702	-0.0165	-2.5 to 2.5	Pass

					4.43	9.155	0.0129	-2.5 to 2.5	Pass
				-30	3.85	22.230	0.0314	-2.5 to 2.5	Pass
				-20	3.85	17.638	0.0249	-2.5 to 2.5	Pass
				-10	3.85	19.369	0.0274	-2.5 to 2.5	Pass
				0	3.85	19.841	0.0280	-2.5 to 2.5	Pass
				10	3.85	19.898	0.0281	-2.5 to 2.5	Pass
				30	3.85	30.785	0.0435	-2.5 to 2.5	Pass
				40	3.85	8.912	0.0126	-2.5 to 2.5	Pass
				50	3.85	33.145	0.0468	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	16.794	0.0235	-2.5 to 2.5	Pass
					3.85	42.272	0.0592	-2.5 to 2.5	Pass
					4.43	15.836	0.0222	-2.5 to 2.5	Pass
				-30	3.85	19.069	0.0267	-2.5 to 2.5	Pass
				-20	3.85	35.419	0.0496	-2.5 to 2.5	Pass
				-10	3.85	8.211	0.0115	-2.5 to 2.5	Pass
				0	3.85	12.660	0.0177	-2.5 to 2.5	Pass
				10	3.85	26.164	0.0367	-2.5 to 2.5	Pass
				30	3.85	27.080	0.0380	-2.5 to 2.5	Pass
				40	3.85	38.295	0.0537	-2.5 to 2.5	Pass
				50	3.85	39.611	0.0555	-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	3.762	0.0053	-2.5 to 2.5	Pass
					3.85	-11.959	-0.0170	-2.5 to 2.5	Pass
					4.43	-17.509	-0.0249	-2.5 to 2.5	Pass
				-30	3.85	-26.336	-0.0374	-2.5 to 2.5	Pass
				-20	3.85	-25.992	-0.0369	-2.5 to 2.5	Pass
				-10	3.85	-10.743	-0.0153	-2.5 to 2.5	Pass
				0	3.85	-19.541	-0.0278	-2.5 to 2.5	Pass
				10	3.85	-44.432	-0.0631	-2.5 to 2.5	Pass
				30	3.85	-11.373	-0.0162	-2.5 to 2.5	Pass
				40	3.85	-25.291	-0.0359	-2.5 to 2.5	Pass
	707.5	50	0	50	3.85	-40.355	-0.0573	-2.5 to 2.5	Pass
				20	3.27	12.860	0.0182	-2.5 to 2.5	Pass
					3.85	-4.621	-0.0065	-2.5 to 2.5	Pass
					4.43	-28.167	-0.0398	-2.5 to 2.5	Pass
				-30	3.85	-40.398	-0.0571	-2.5 to 2.5	Pass
				-20	3.85	-0.887	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	-10.185	-0.0144	-2.5 to 2.5	Pass
				0	3.85	-2.475	-0.0035	-2.5 to 2.5	Pass
				10	3.85	1.774	0.0025	-2.5 to 2.5	Pass
				30	3.85	0.443	0.0006	-2.5 to 2.5	Pass
	711	50	0	40	3.85	-7.939	-0.0112	-2.5 to 2.5	Pass
				50	3.85	-23.246	-0.0329	-2.5 to 2.5	Pass
				20	3.27	6.280	0.0088	-2.5 to 2.5	Pass
					3.85	-3.662	-0.0052	-2.5 to 2.5	Pass
					4.43	-22.416	-0.0315	-2.5 to 2.5	Pass
				-30	3.85	-45.891	-0.0645	-2.5 to 2.5	Pass
				-20	3.85	-3.448	-0.0048	-2.5 to 2.5	Pass
				-10	3.85	-9.928	-0.0140	-2.5 to 2.5	Pass
				0	3.85	-21.300	-0.0300	-2.5 to 2.5	Pass
				10	3.85	-23.489	-0.0330	-2.5 to 2.5	Pass
				30	3.85	-22.917	-0.0322	-2.5 to 2.5	Pass

16QAM	704	50	0	40	3.85	-20.742	-0.0292	-2.5 to 2.5	Pass
				50	3.85	-27.323	-0.0384	-2.5 to 2.5	Pass
				20	3.27	-13.547	-0.0192	-2.5 to 2.5	Pass
					3.85	-0.257	-0.0004	-2.5 to 2.5	Pass
				4.43	16.508	0.0234	-2.5 to 2.5	Pass	Pass
					3.85	32.172	0.0457	-2.5 to 2.5	Pass
				-30	3.85	43.659	0.0620	-2.5 to 2.5	Pass
				-20	3.85	10.242	0.0145	-2.5 to 2.5	Pass
				-10	3.85	21.472	0.0305	-2.5 to 2.5	Pass
				0	3.85	32.973	0.0468	-2.5 to 2.5	Pass
				10	3.85	40.498	0.0575	-2.5 to 2.5	Pass
				30	3.85	40.026	0.0569	-2.5 to 2.5	Pass
				40	3.85	34.103	0.0484	-2.5 to 2.5	Pass
				50	3.85	3.27	-18.911	-0.0267	Pass
	707.5	50	0	20	3.85	3.734	0.0053	-2.5 to 2.5	Pass
					4.43	35.920	0.0508	-2.5 to 2.5	Pass
				-30	3.85	-1.888	-0.0027	-2.5 to 2.5	Pass
				-20	3.85	6.065	0.0086	-2.5 to 2.5	Pass
				-10	3.85	3.791	0.0054	-2.5 to 2.5	Pass
				0	3.85	12.631	0.0179	-2.5 to 2.5	Pass
				10	3.85	31.357	0.0443	-2.5 to 2.5	Pass
				30	3.85	38.610	0.0546	-2.5 to 2.5	Pass
				40	3.85	42.386	0.0599	-2.5 to 2.5	Pass
				50	3.85	4.363	0.0062	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-34.690	-0.0488	-2.5 to 2.5	Pass
					3.85	-11.902	-0.0167	-2.5 to 2.5	Pass
				4.43	13.332	0.0188	-2.5 to 2.5	Pass	Pass
					3.85	29.955	0.0421	-2.5 to 2.5	Pass
				-30	3.85	-1.888	-0.0027	-2.5 to 2.5	Pass
				-20	3.85	10.099	0.0142	-2.5 to 2.5	Pass
				-10	3.85	12.217	0.0172	-2.5 to 2.5	Pass
				0	3.85	5.078	0.0071	-2.5 to 2.5	Pass
				10	3.85	0.100	0.0001	-2.5 to 2.5	Pass
				30	3.85	4.506	0.0063	-2.5 to 2.5	Pass
				40	3.85	-2.847	-0.0040	-2.5 to 2.5	Pass
				50	3.85				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

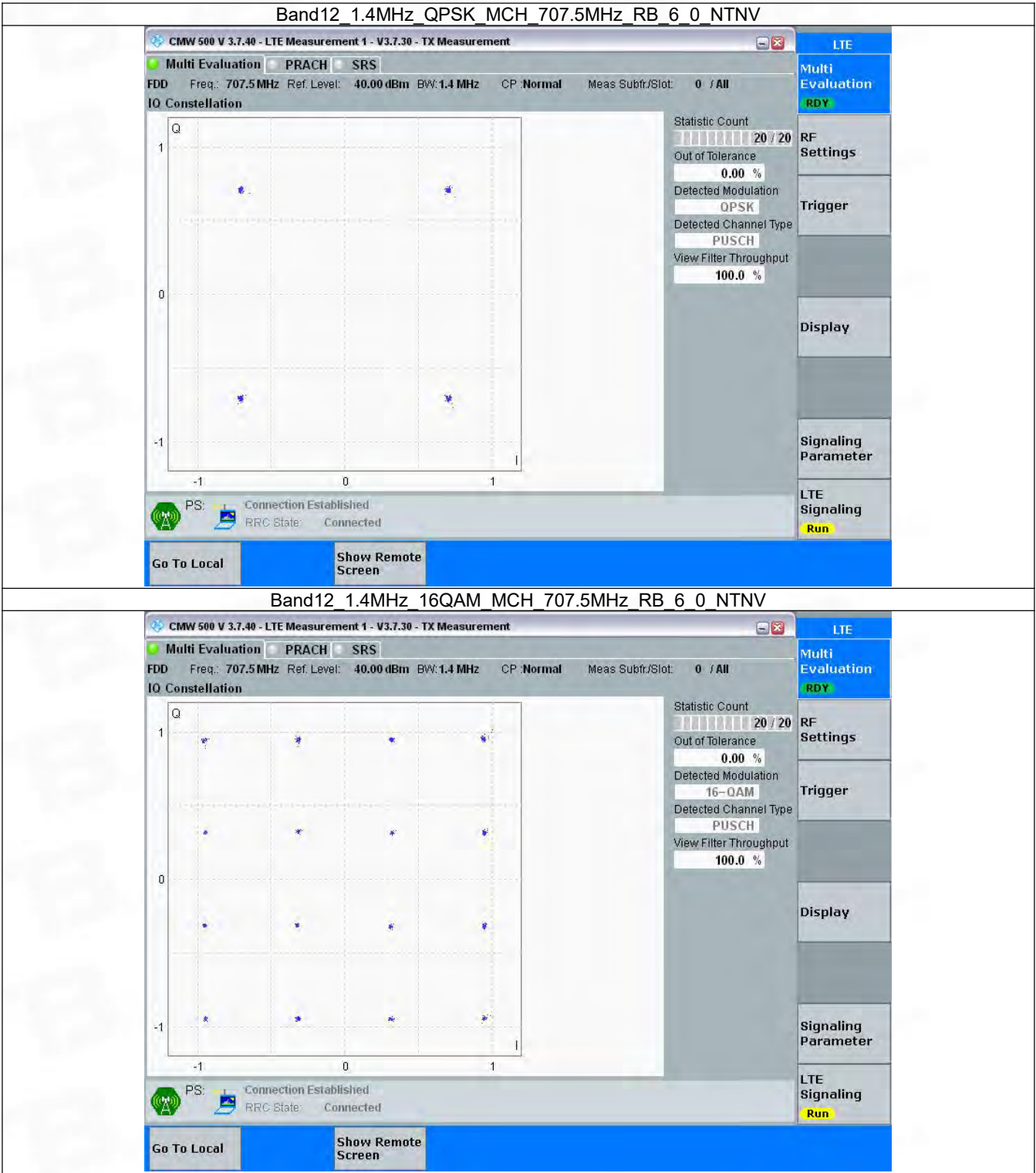
Band: 12 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	25	0	Refer To Test Graph		Pass
16QAM	707.5	25	0	Refer To Test Graph		Pass

3.1.4 B12_10MHz

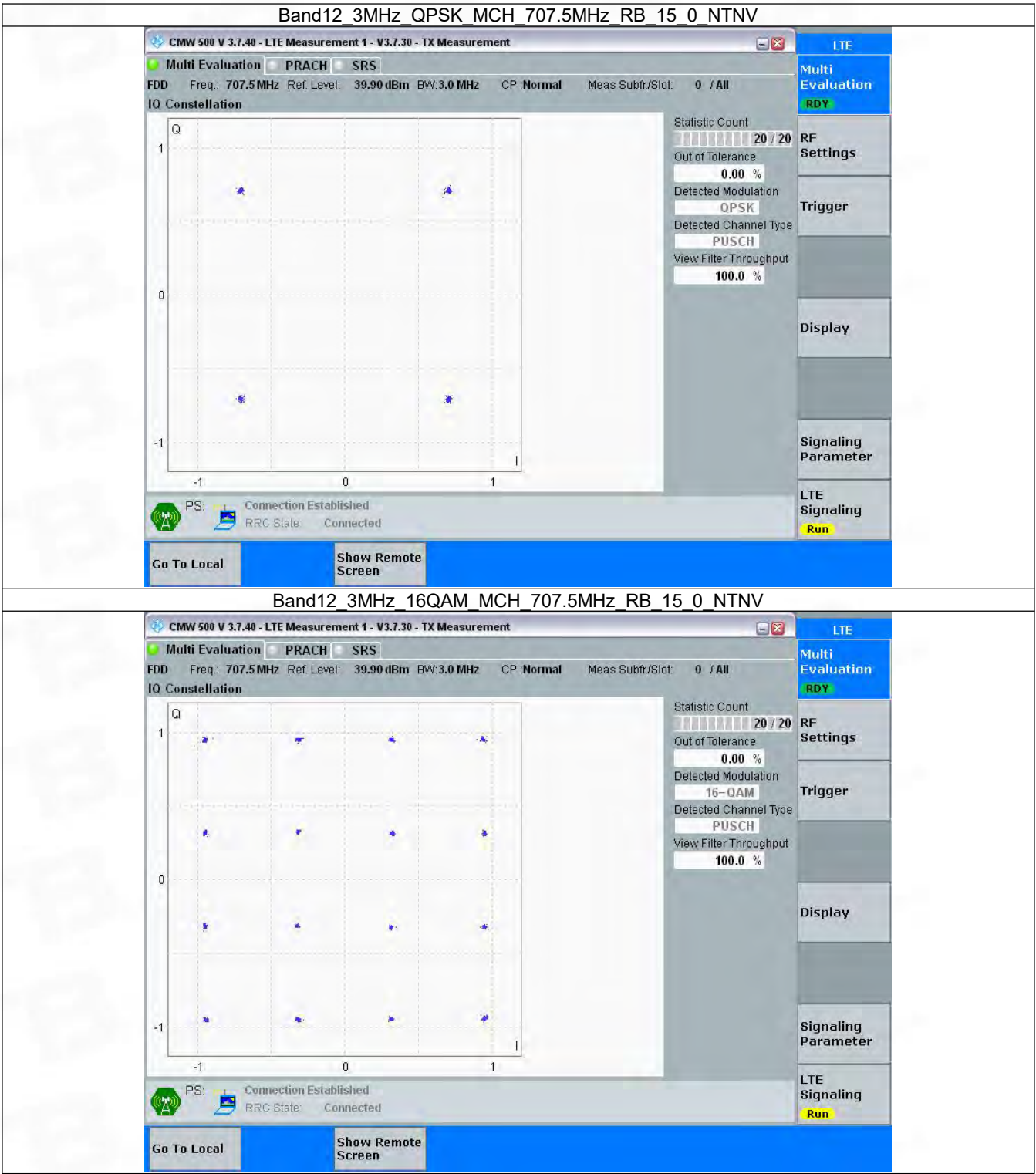
Band: 12 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	Refer To Test Graph		Pass
16QAM	707.5	50	0	Refer To Test Graph		Pass

3.2 Test Graph

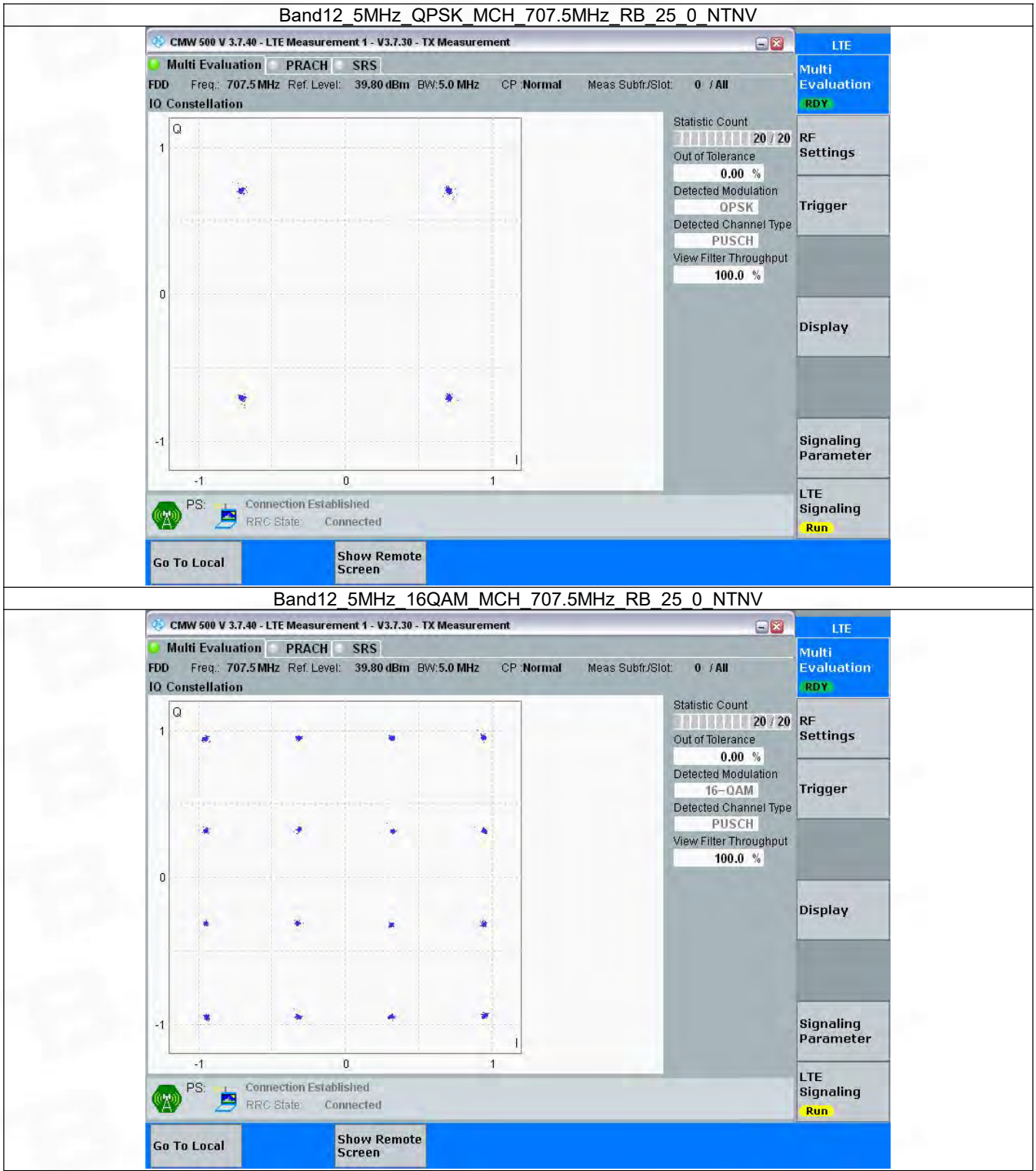
3.2.1 B12_1.4MHz



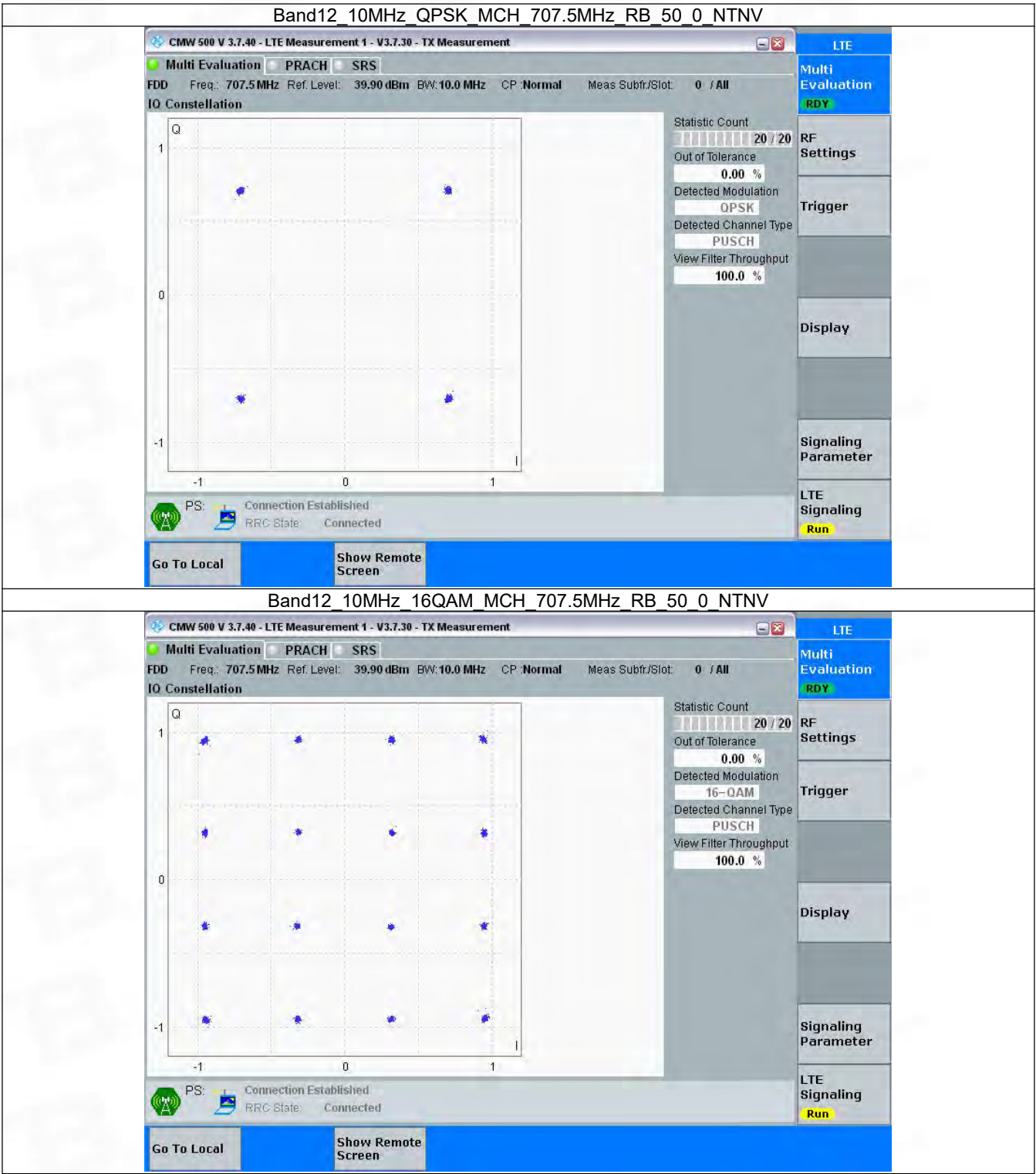
3.2.2 B12_3MHz



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	1.113	/	Pass
		707.5	6	0	1.111	/	Pass
		715.3	6	0	1.108	/	Pass
	16QAM	699.7	6	0	1.114	/	Pass
		707.5	6	0	1.107	/	Pass
		715.3	6	0	1.119	/	Pass
3	QPSK	700.5	15	0	2.757	/	Pass
		707.5	15	0	2.750	/	Pass
		714.5	15	0	2.749	/	Pass
	16QAM	700.5	15	0	2.752	/	Pass
		707.5	15	0	2.759	/	Pass
		714.5	15	0	2.750	/	Pass
5	QPSK	701.5	25	0	4.540	/	Pass
		707.5	25	0	4.551	/	Pass
		713.5	25	0	4.535	/	Pass
	16QAM	701.5	25	0	4.563	/	Pass
		707.5	25	0	4.548	/	Pass
		713.5	25	0	4.548	/	Pass
10	QPSK	704	50	0	9.060	/	Pass
		707.5	50	0	9.030	/	Pass
		711	50	0	9.044	/	Pass
	16QAM	704	50	0	9.059	/	Pass
		707.5	50	0	9.033	/	Pass
		711	50	0	9.048	/	Pass

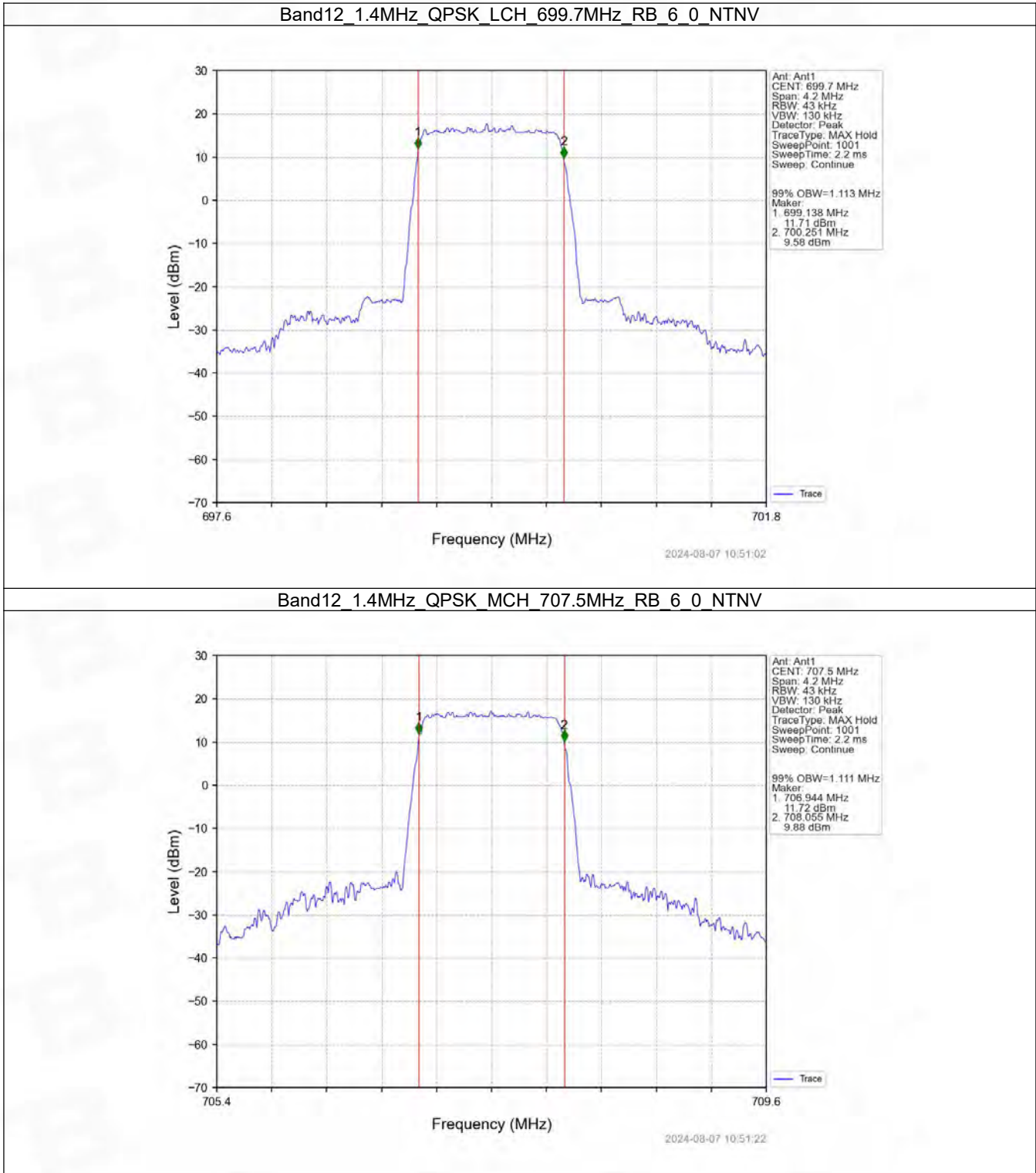
4.1.2 Band12_XDB

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	1.272	/	Pass
		707.5	6	0	1.276	/	Pass
		715.3	6	0	1.277	/	Pass
	16QAM	699.7	6	0	1.282	/	Pass
		707.5	6	0	1.269	/	Pass
		715.3	6	0	1.285	/	Pass
3	QPSK	700.5	15	0	3.090	/	Pass
		707.5	15	0	3.089	/	Pass
		714.5	15	0	3.109	/	Pass
	16QAM	700.5	15	0	3.100	/	Pass
		707.5	15	0	3.098	/	Pass
		714.5	15	0	3.096	/	Pass
5	QPSK	701.5	25	0	5.050	/	Pass
		707.5	25	0	5.068	/	Pass
		713.5	25	0	5.028	/	Pass

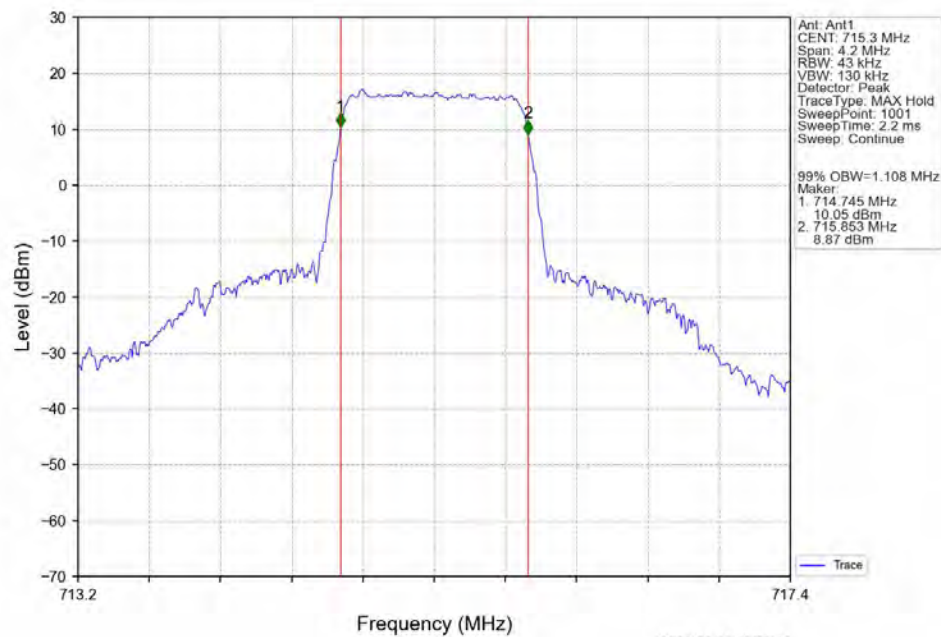
	16QAM	701.5	25	0	5.060	/	Pass
		707.5	25	0	5.074	/	Pass
		713.5	25	0	5.043	/	Pass
10	QPSK	704	50	0	10.083	/	Pass
		707.5	50	0	10.065	/	Pass
		711	50	0	9.942	/	Pass
	16QAM	704	50	0	10.132	/	Pass
		707.5	50	0	10.006	/	Pass
		711	50	0	10.050	/	Pass

4.2 Test Graph

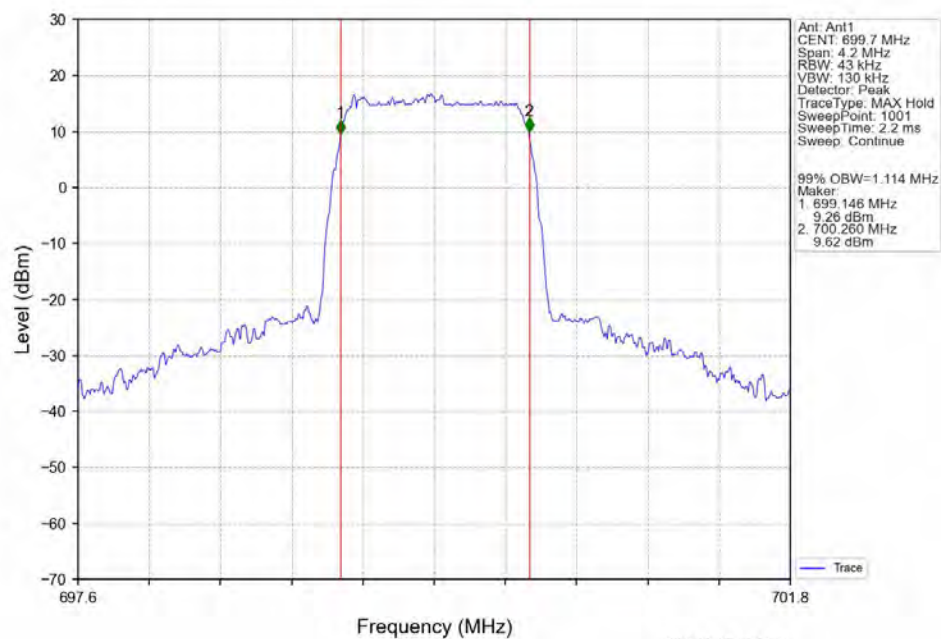
4.2.1 Band12_OBW



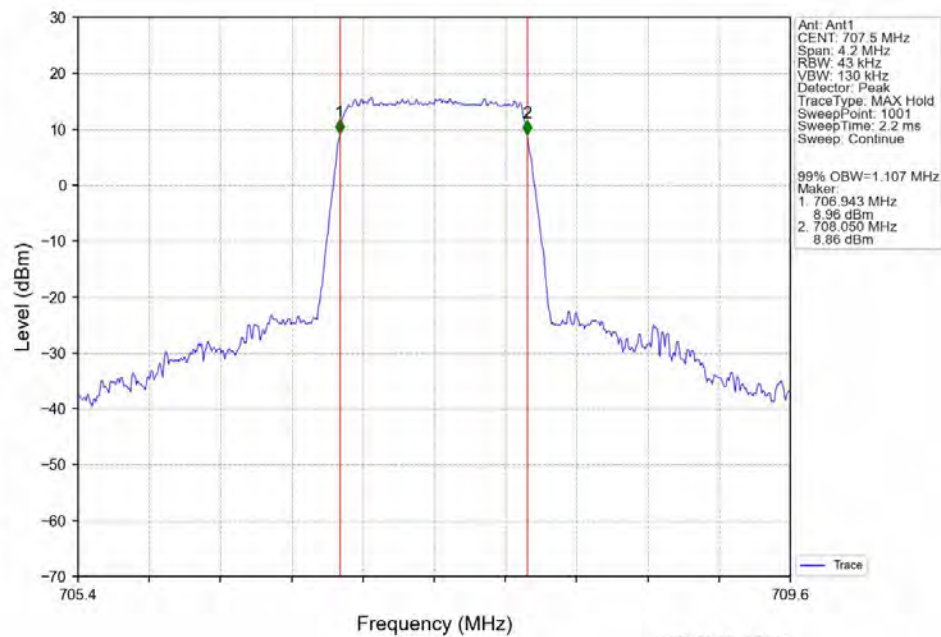
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



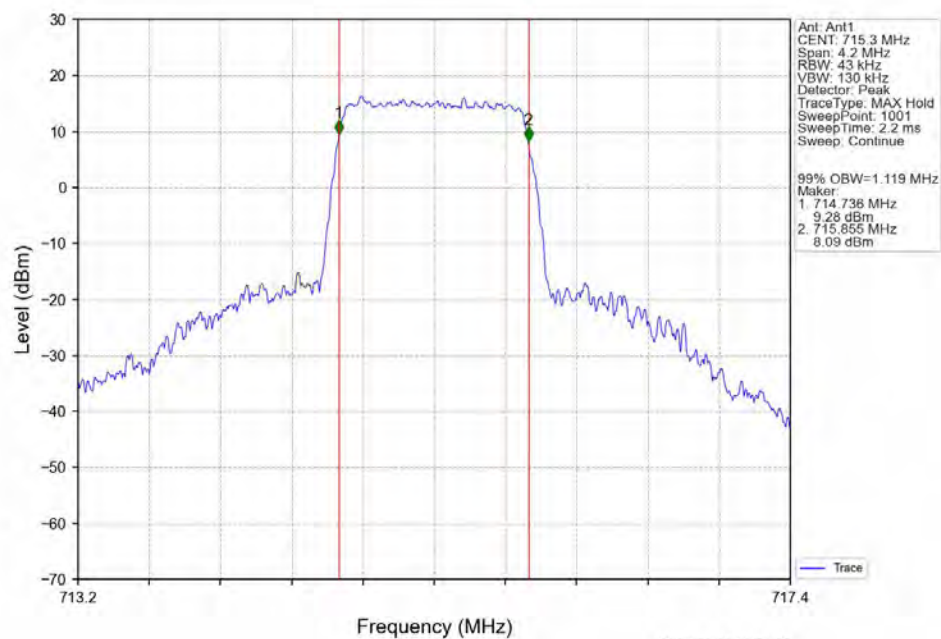
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



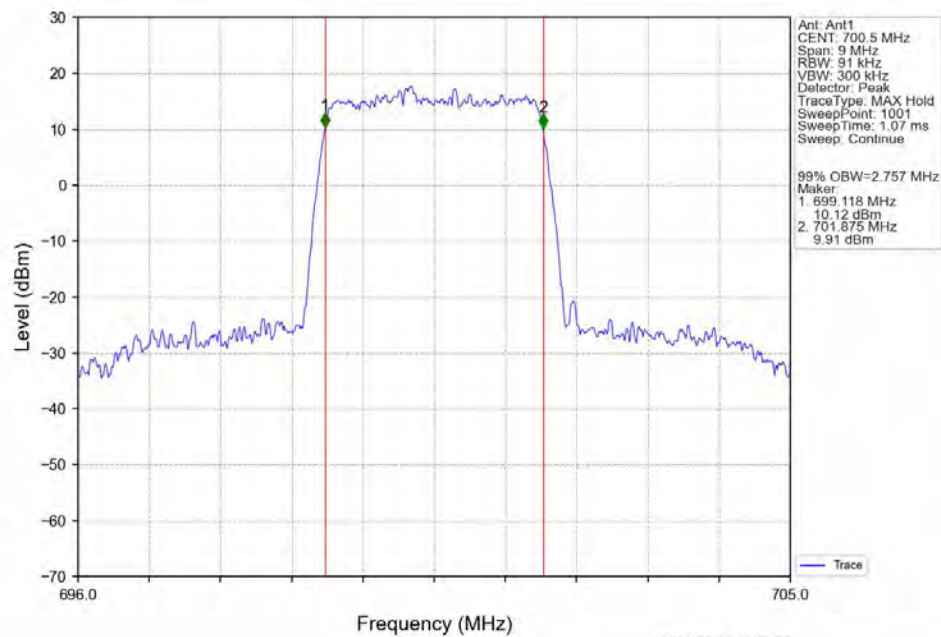
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV

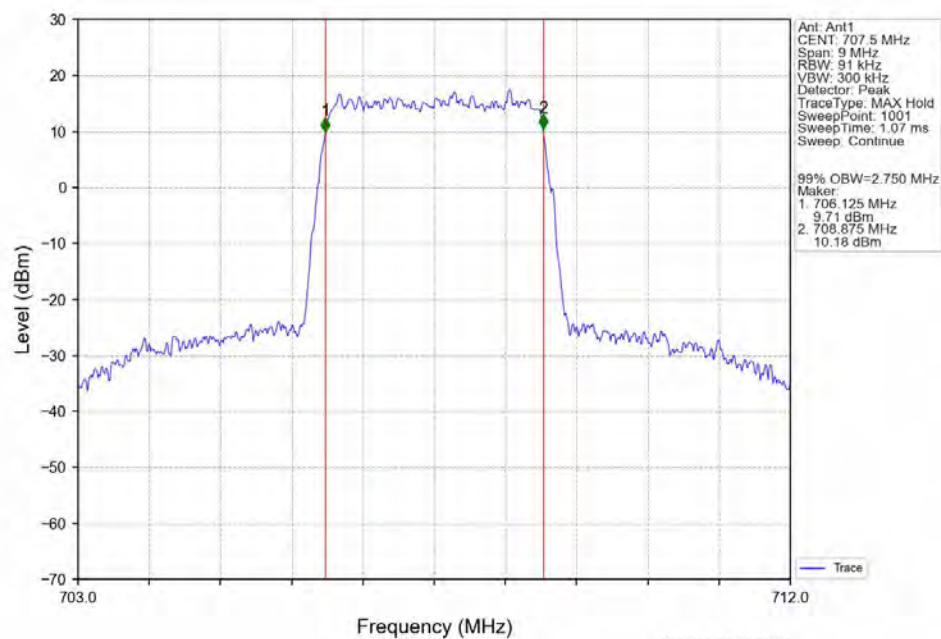


Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



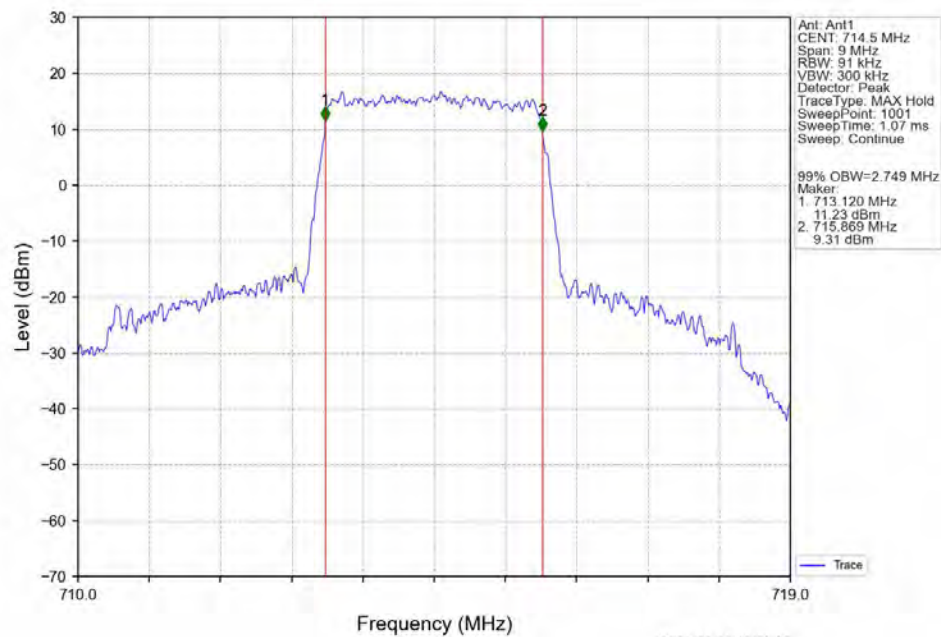
2024-08-07 10:52:28

Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



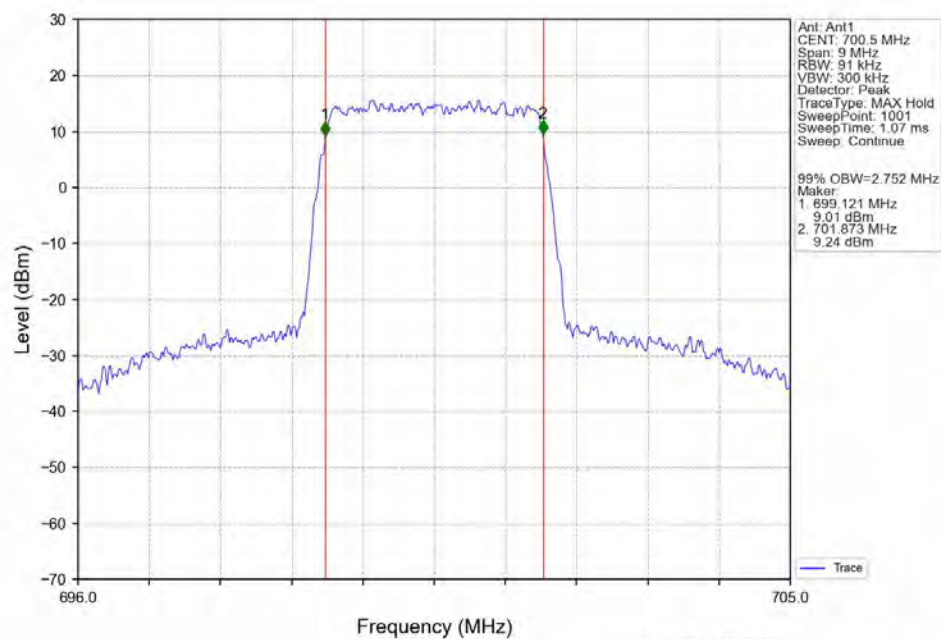
2024-08-07 10:52:49

Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



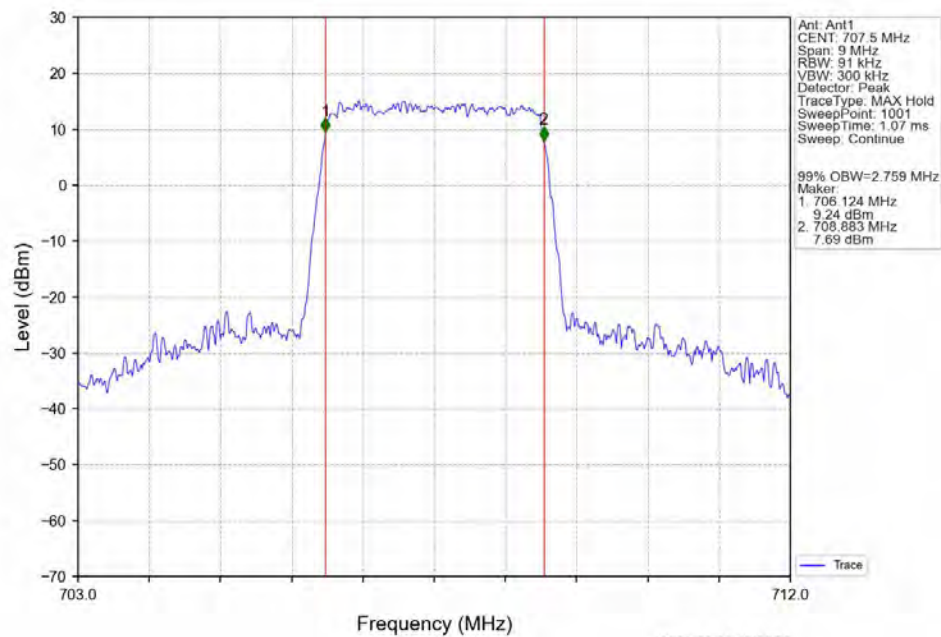
2024-08-07 10:53:09

Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



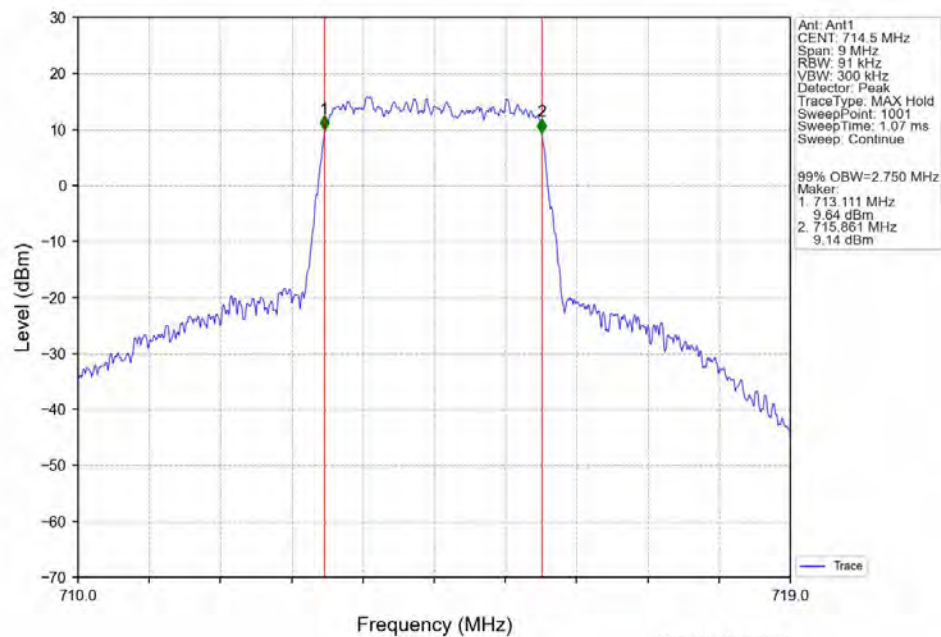
2024-08-07 10:52:37

Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



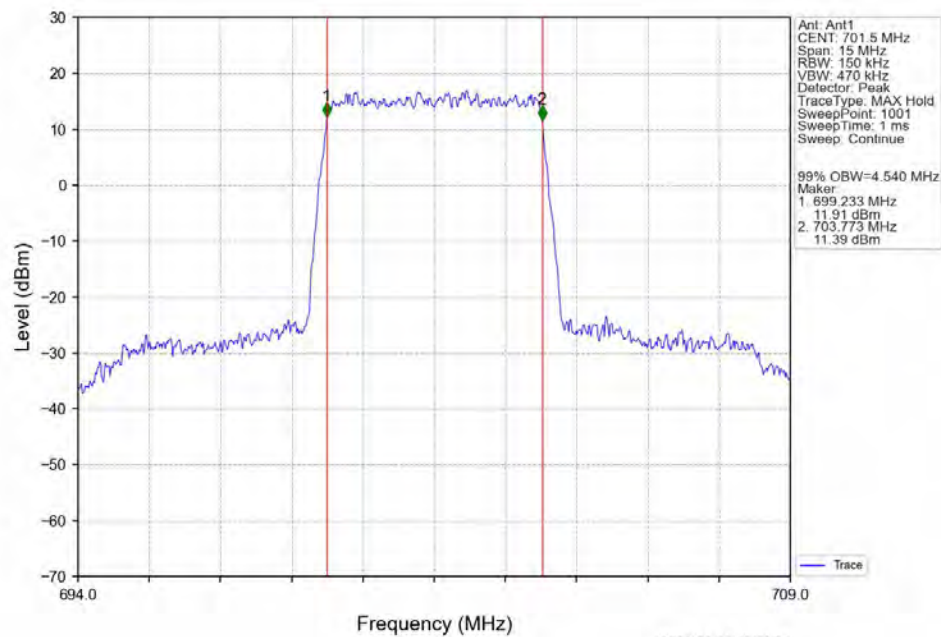
2024-08-07 10:52:58

Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV

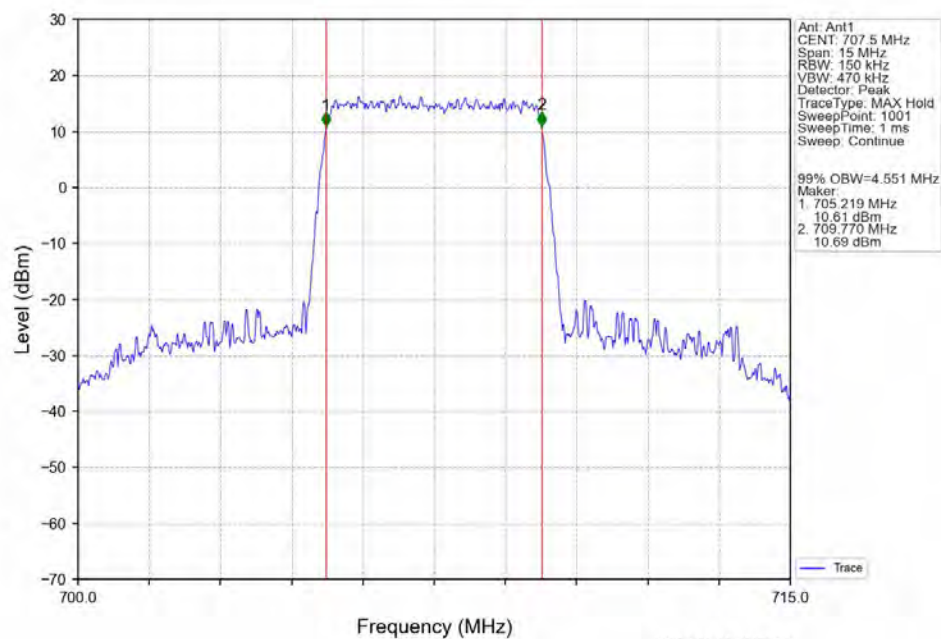


2024-08-07 10:53:18

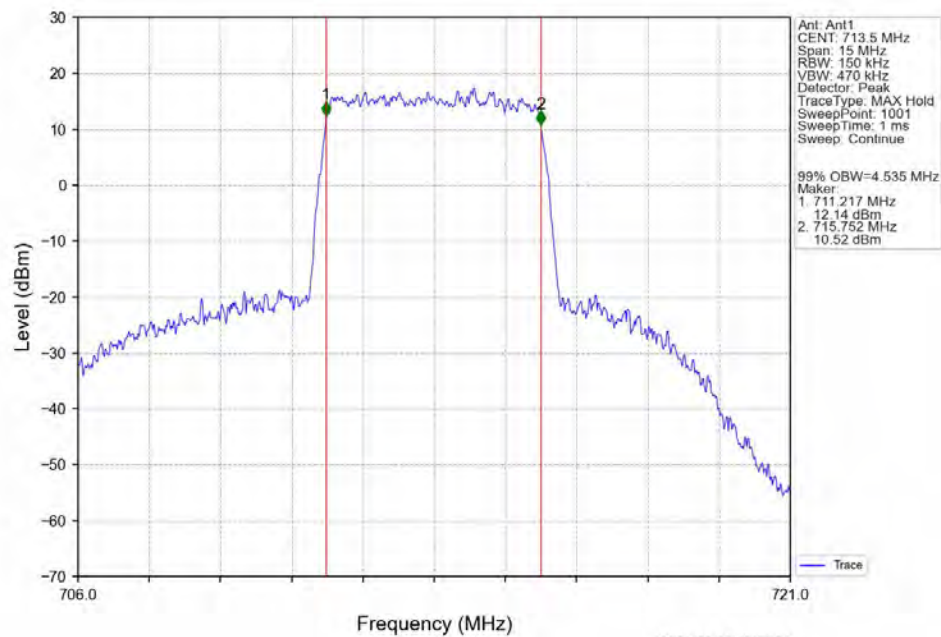
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



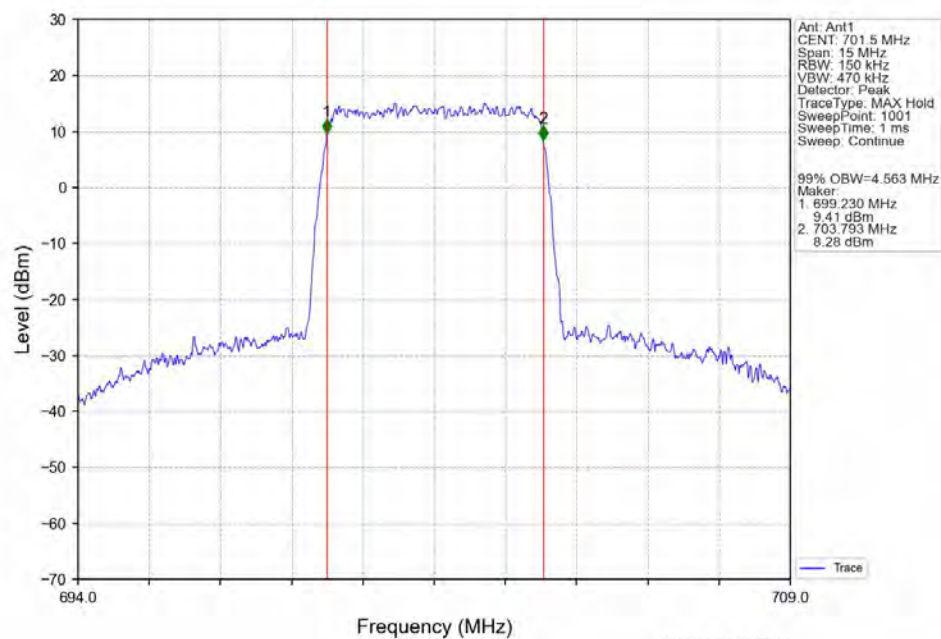
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



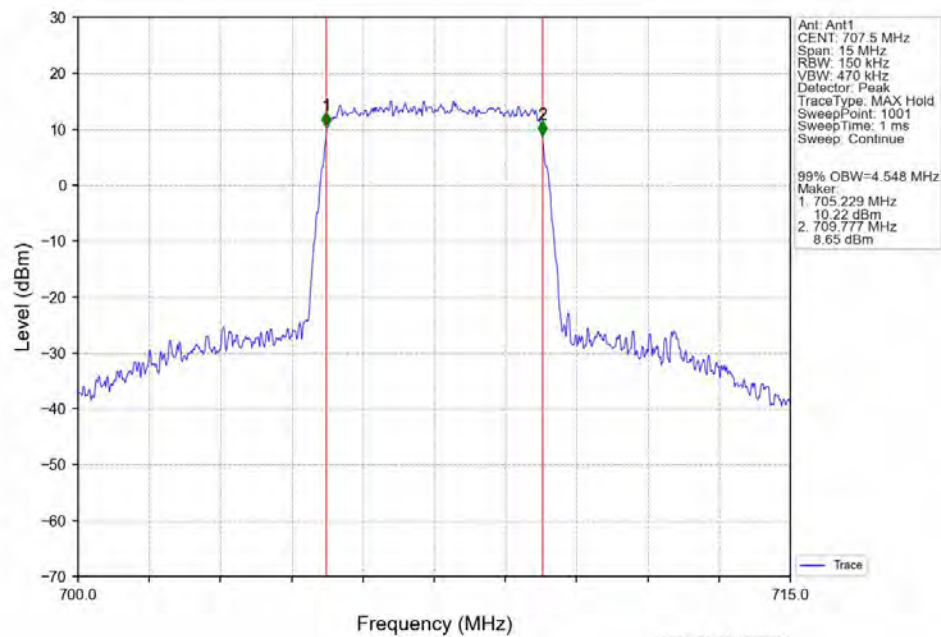
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV

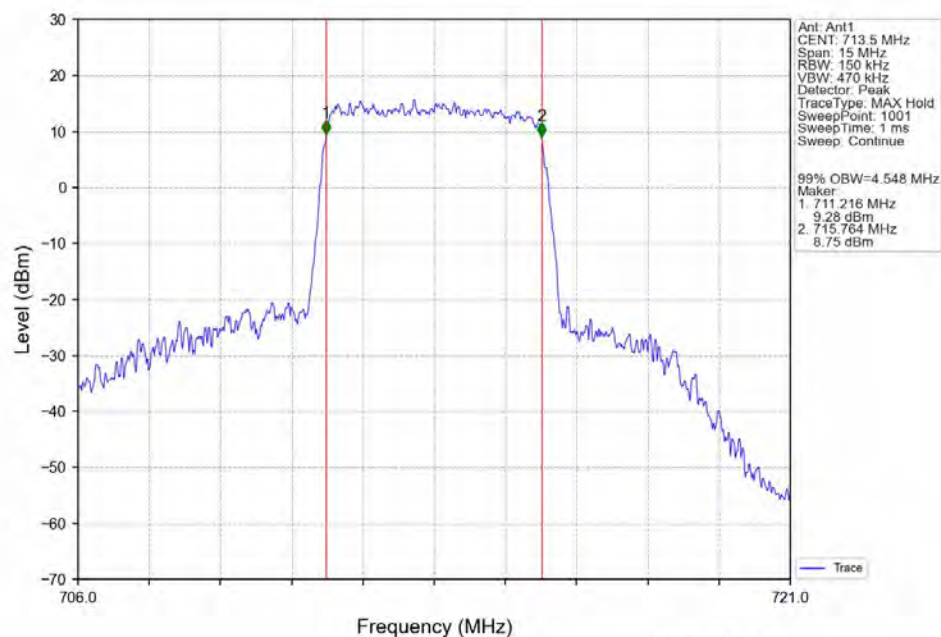


Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



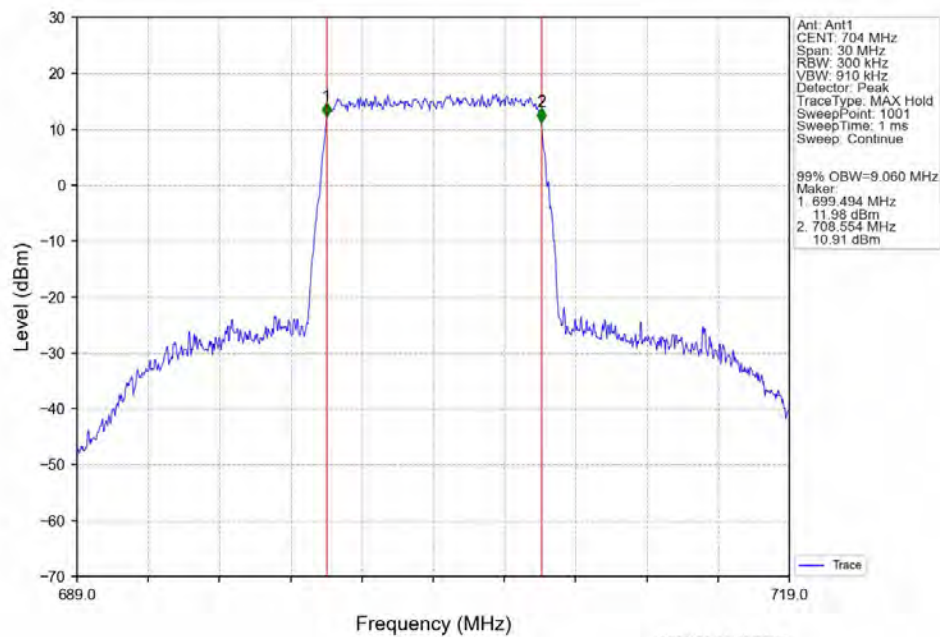
2024-08-07 10:54:24

Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

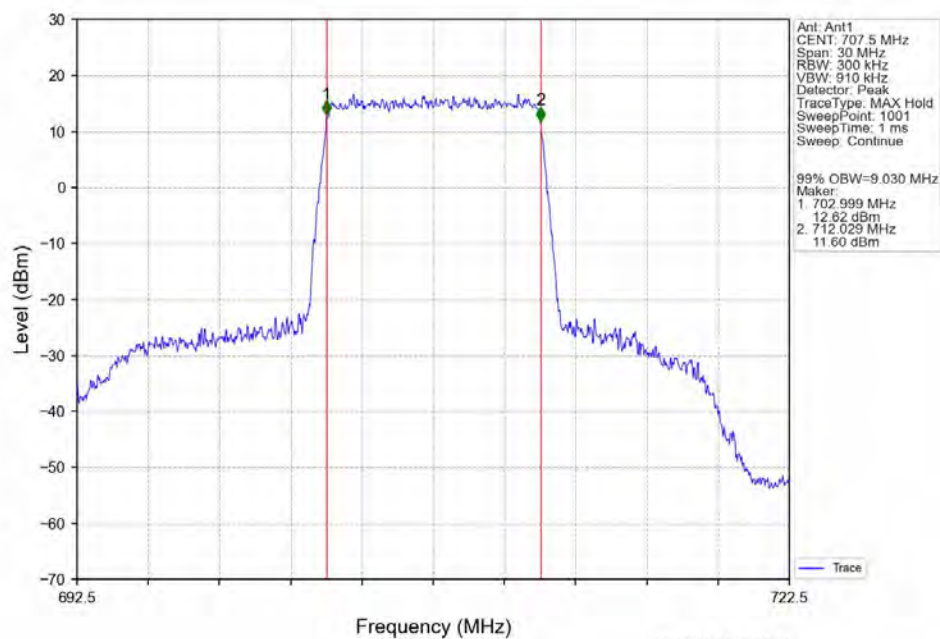


2024-08-07 10:54:44

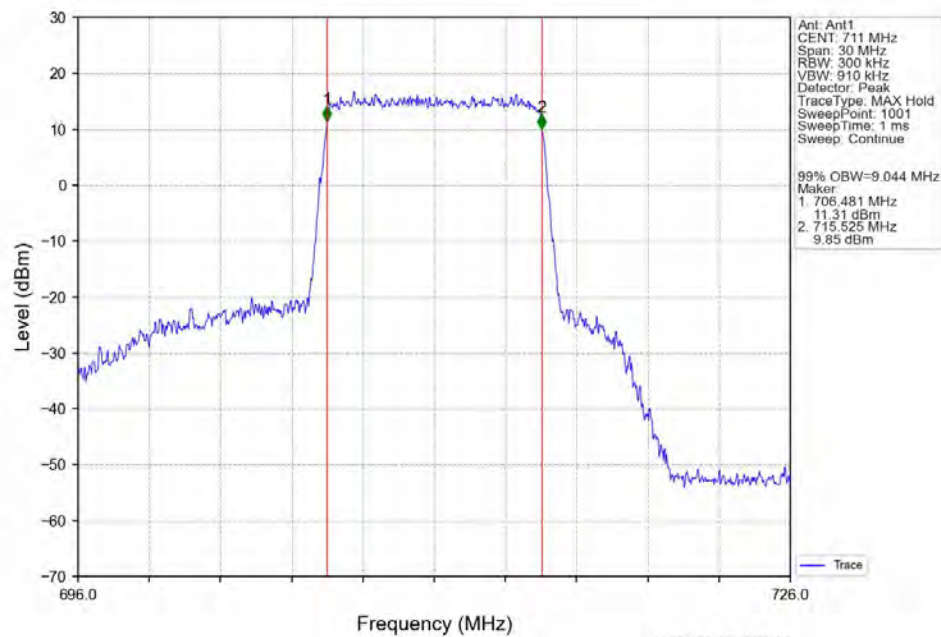
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



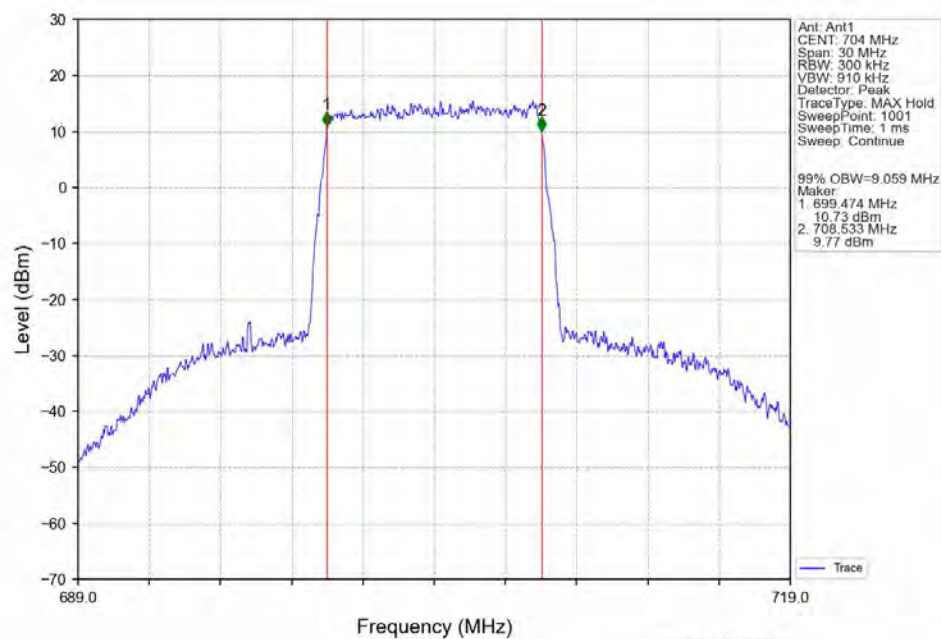
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



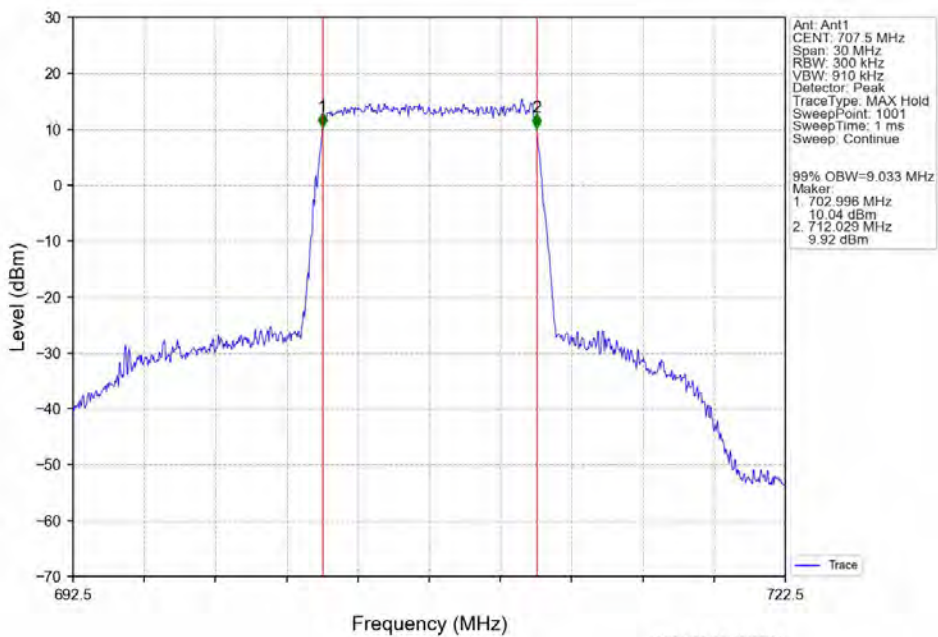
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV

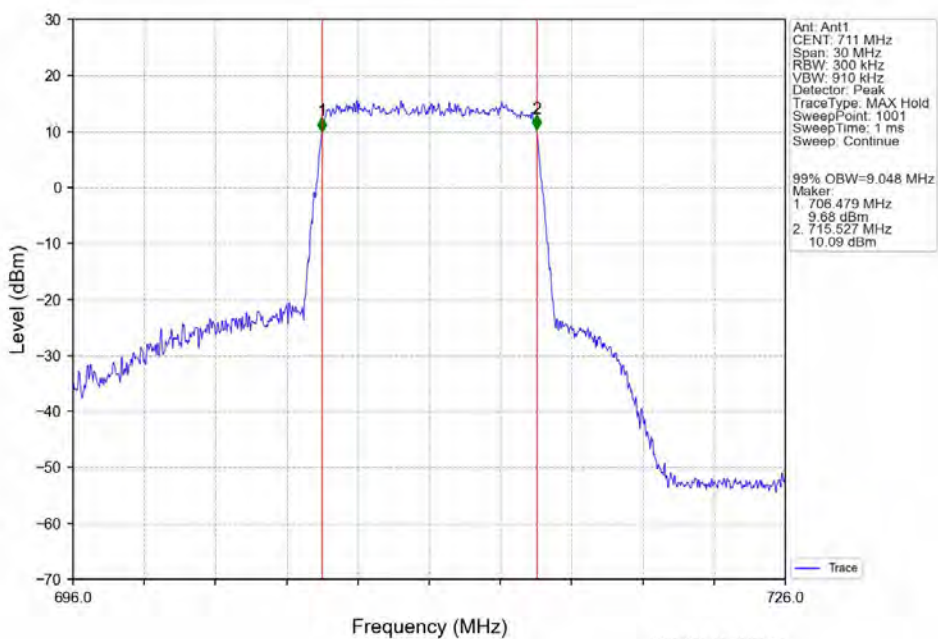


Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



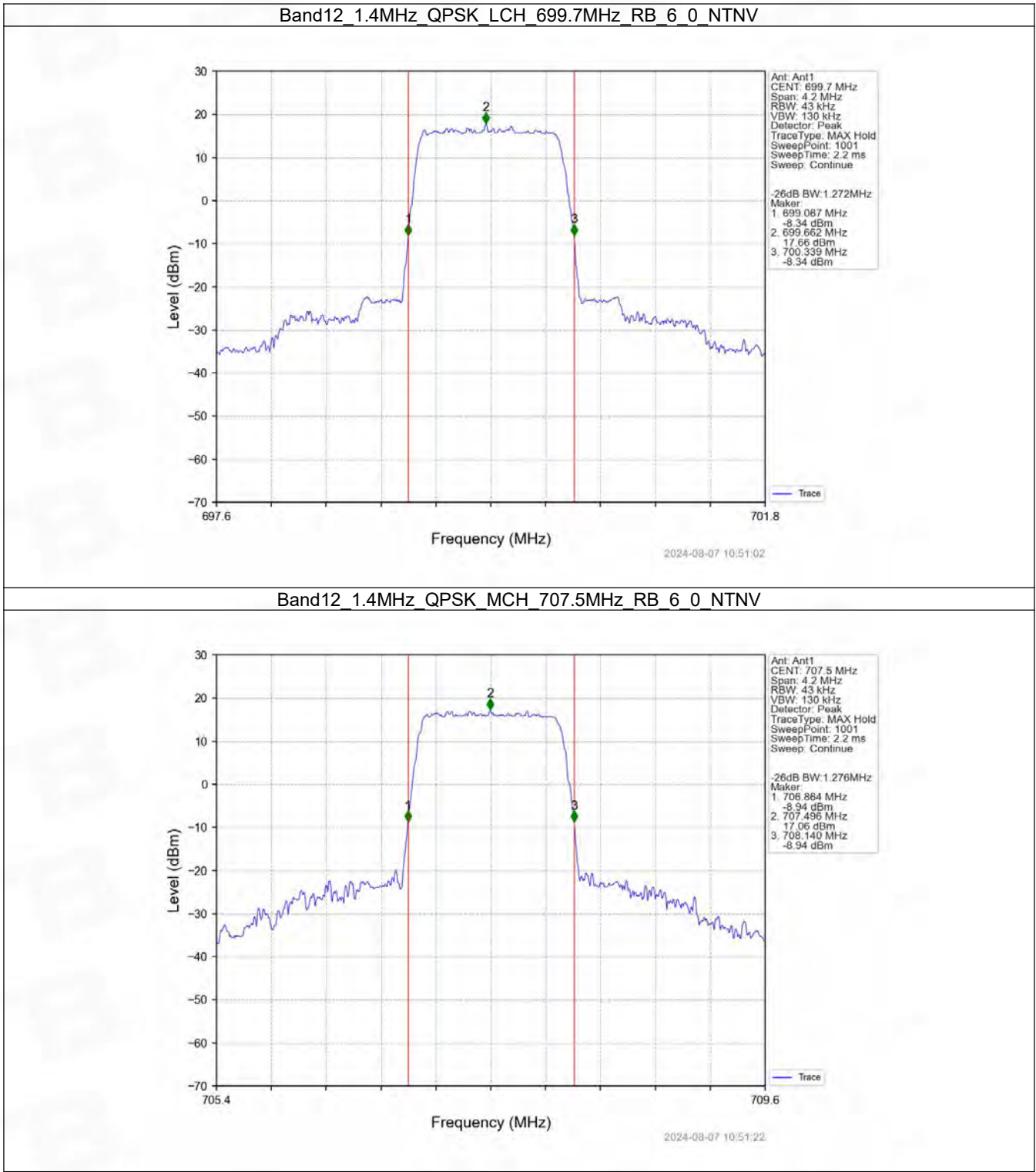
2024-08-07 10:55:51

Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV

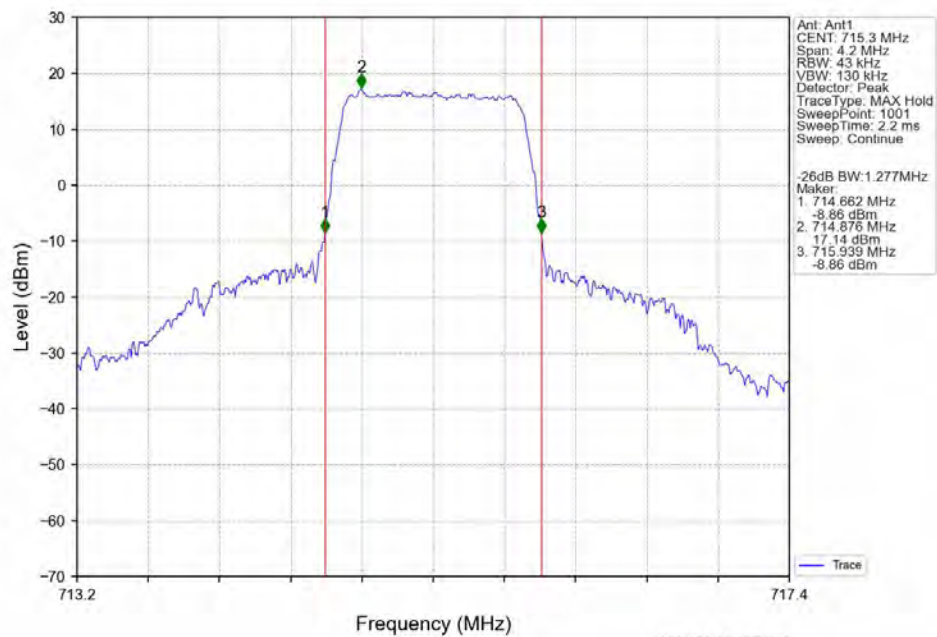


2024-08-07 10:56:12

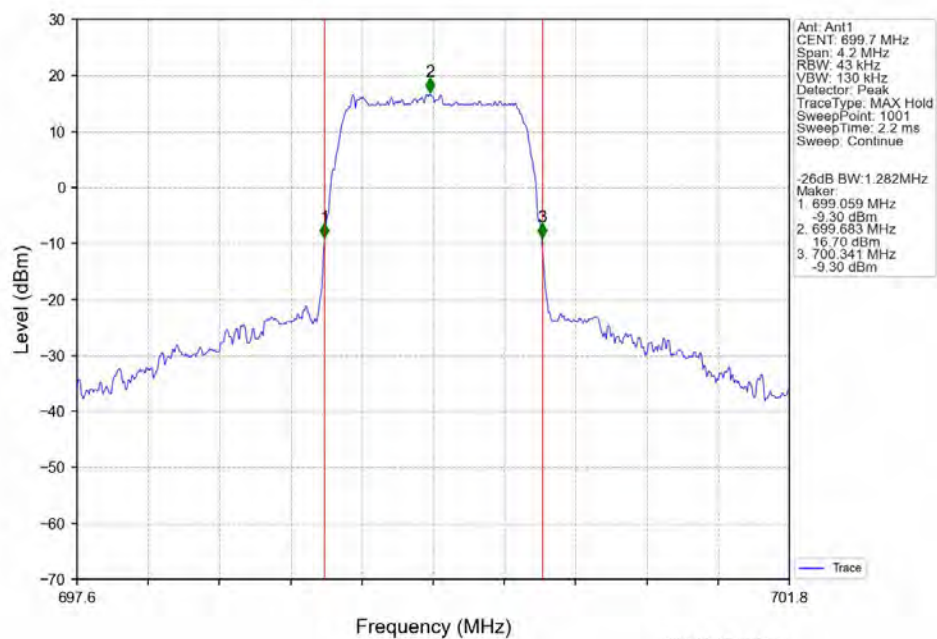
4.2.2 Band12_XDB

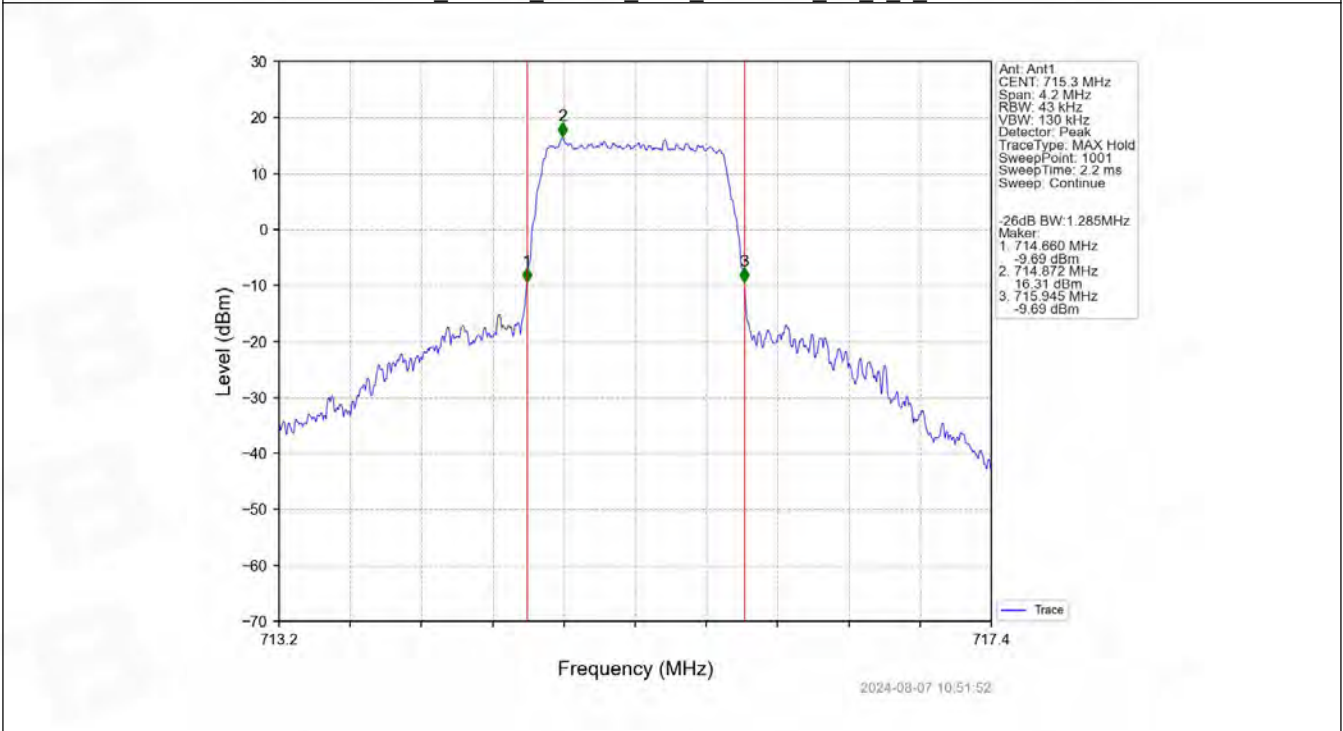
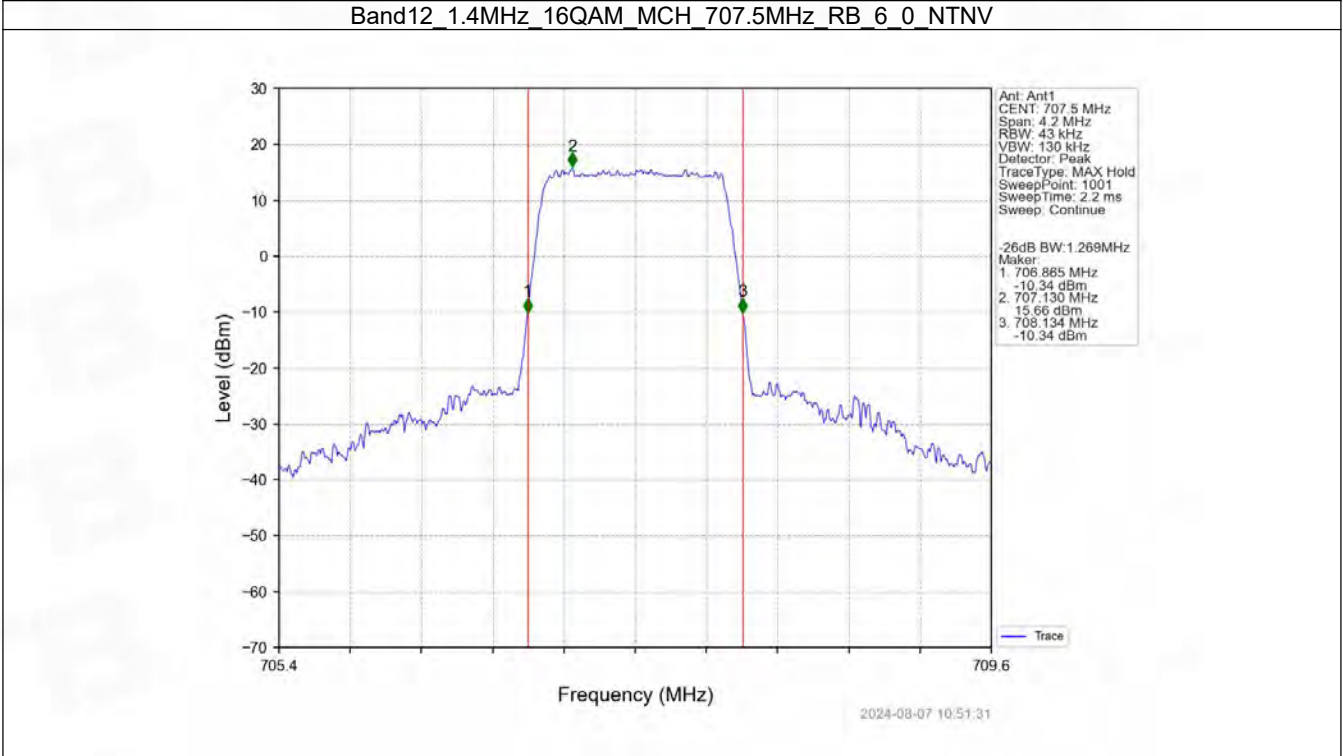


Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV

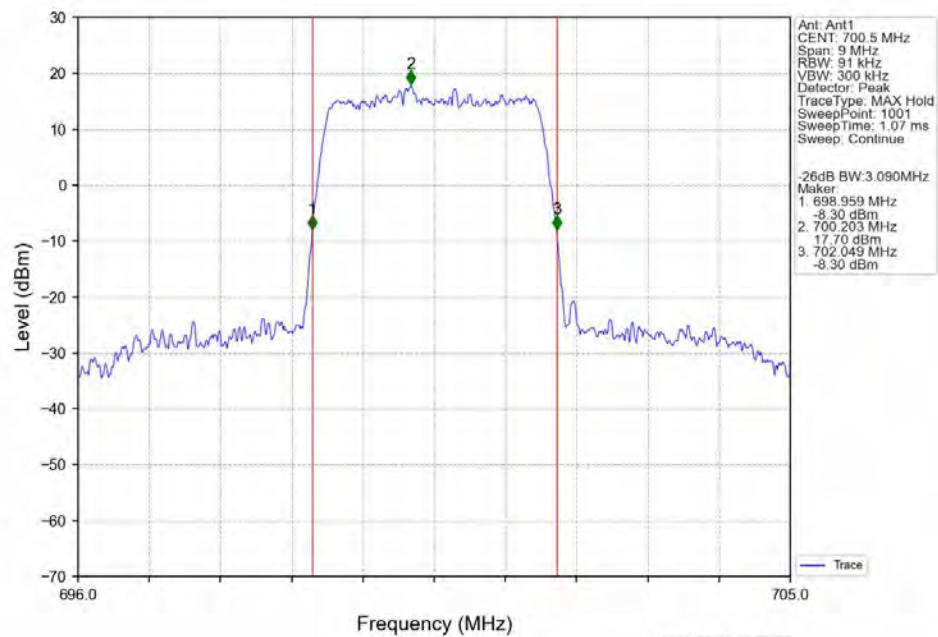


Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV

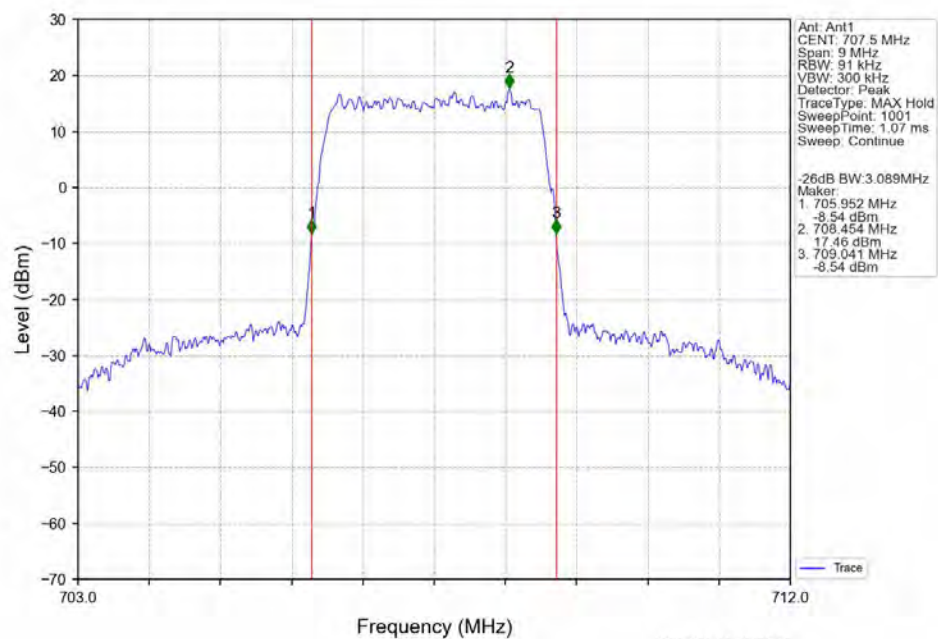




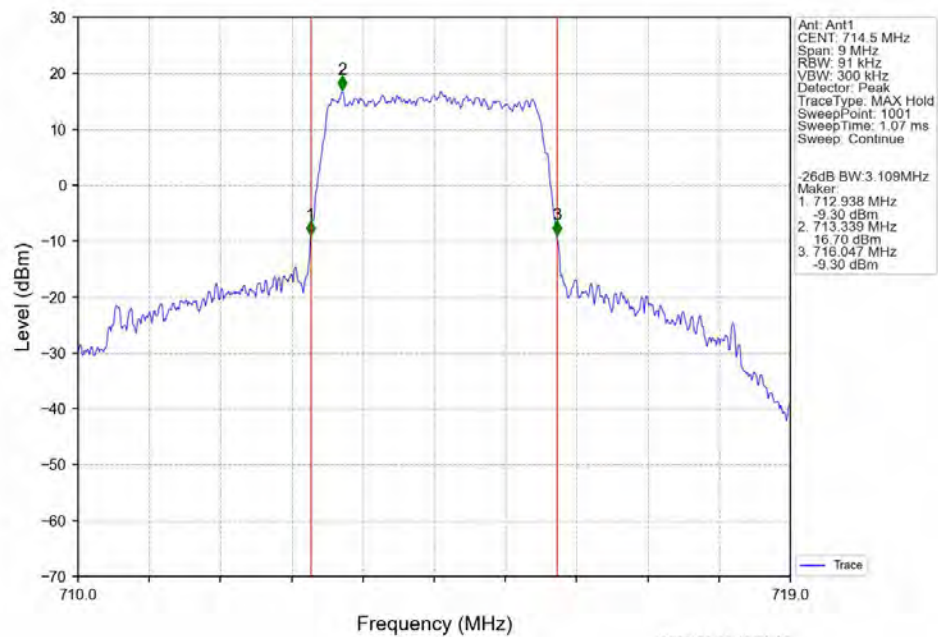
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



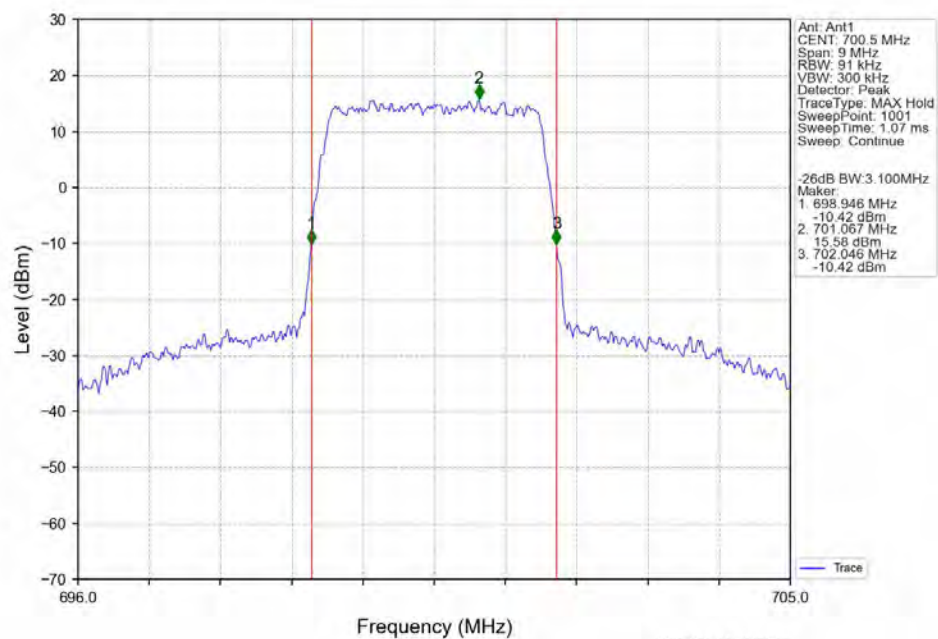
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



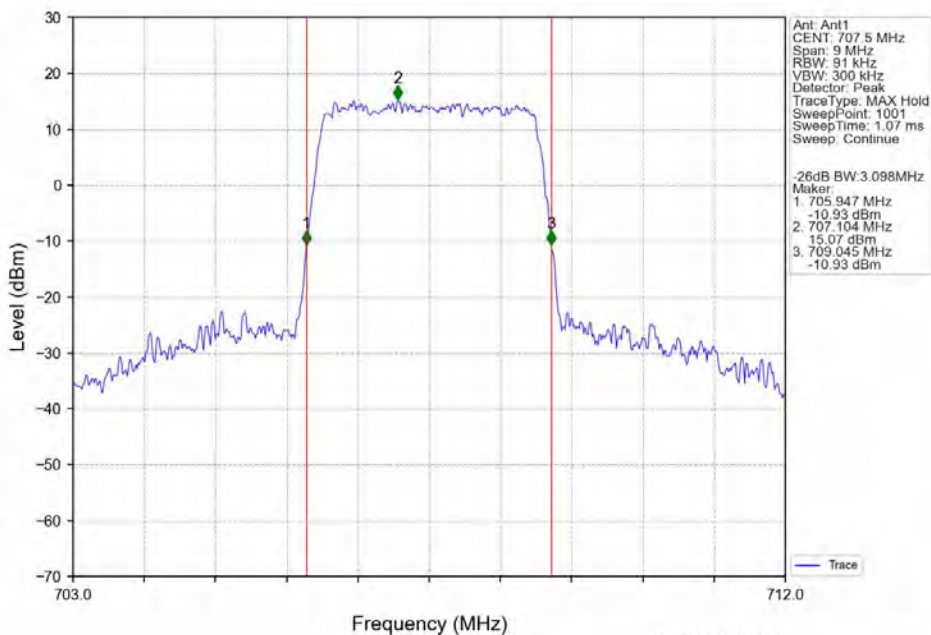
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV

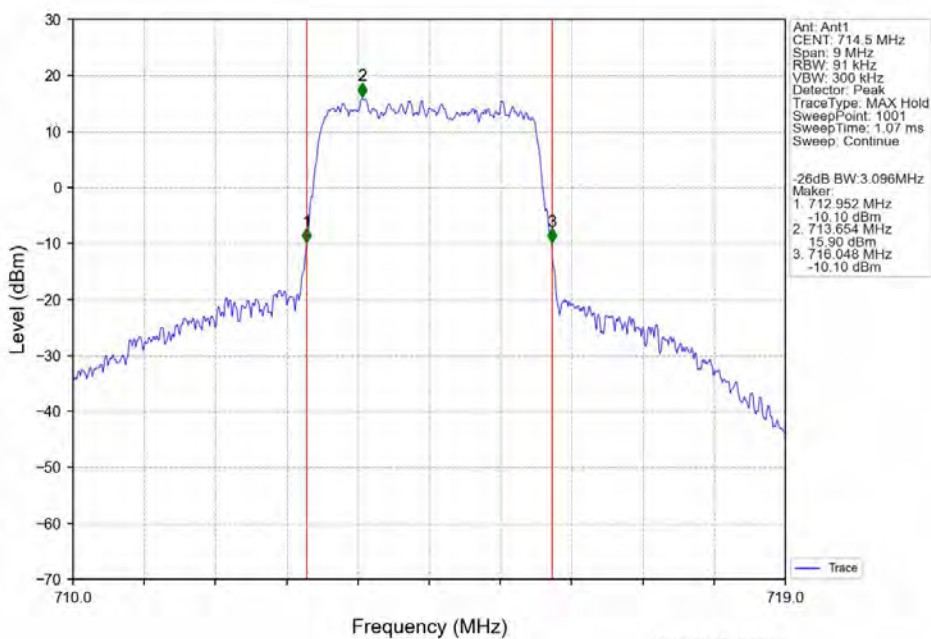


Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



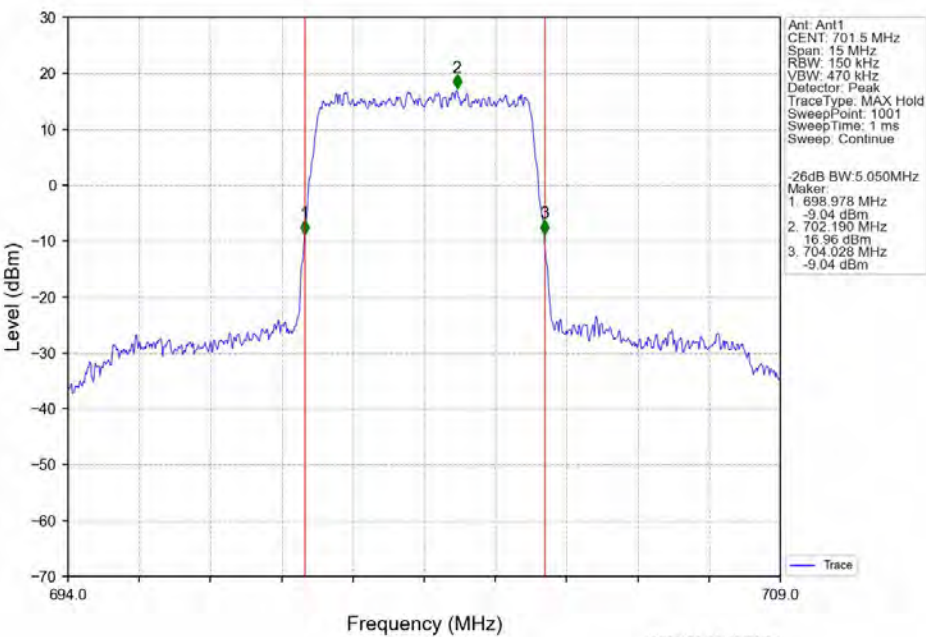
2024-08-07 10:52:58

Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



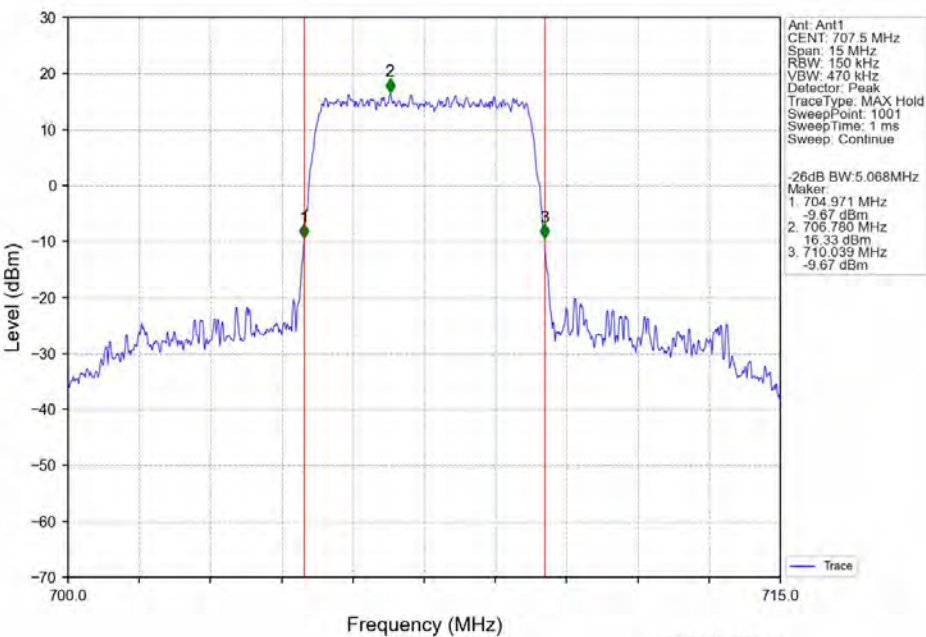
2024-08-07 10:53:18

Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



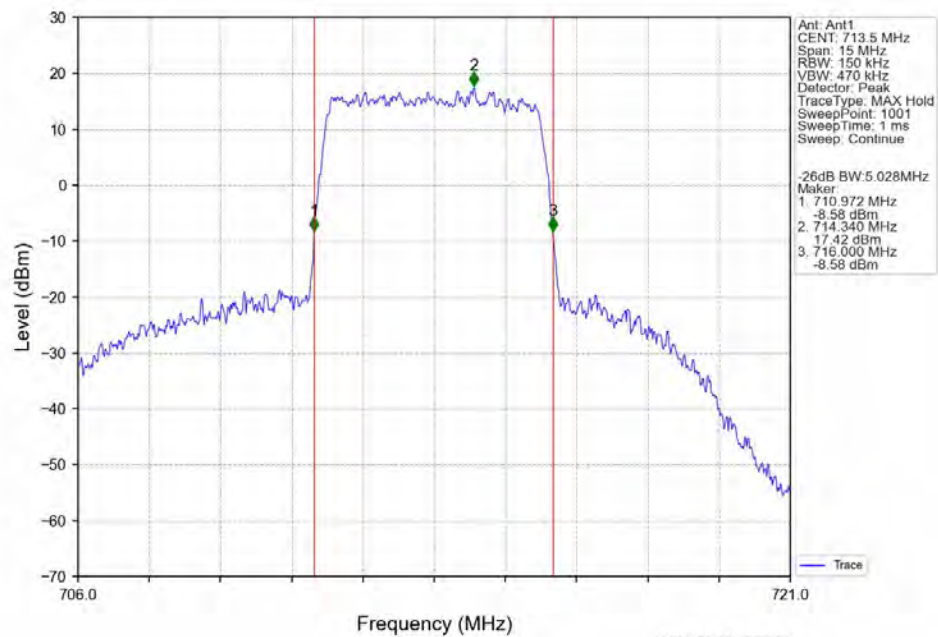
2024-08-07 10:53:54

Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV

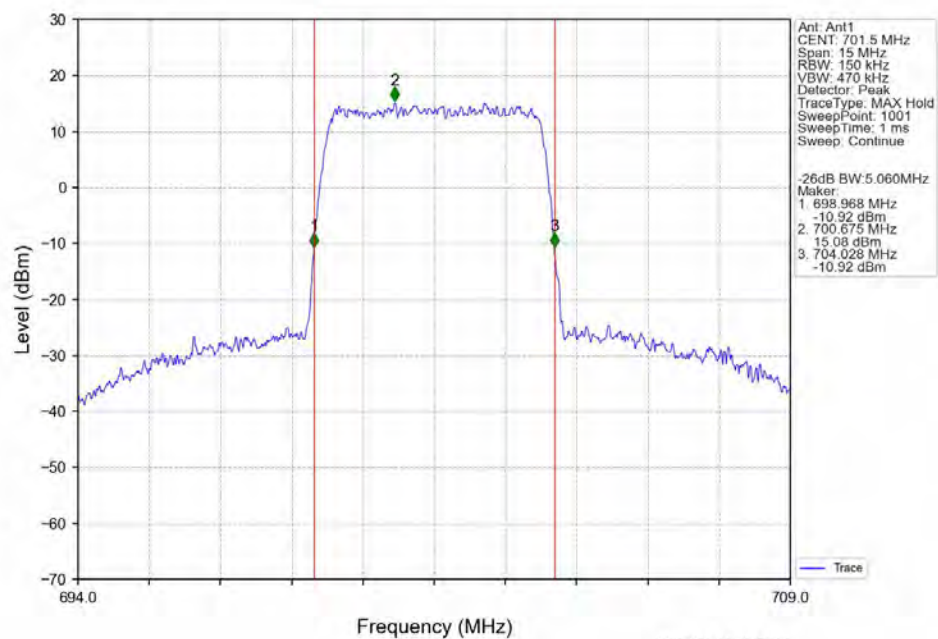


2024-08-07 10:54:15

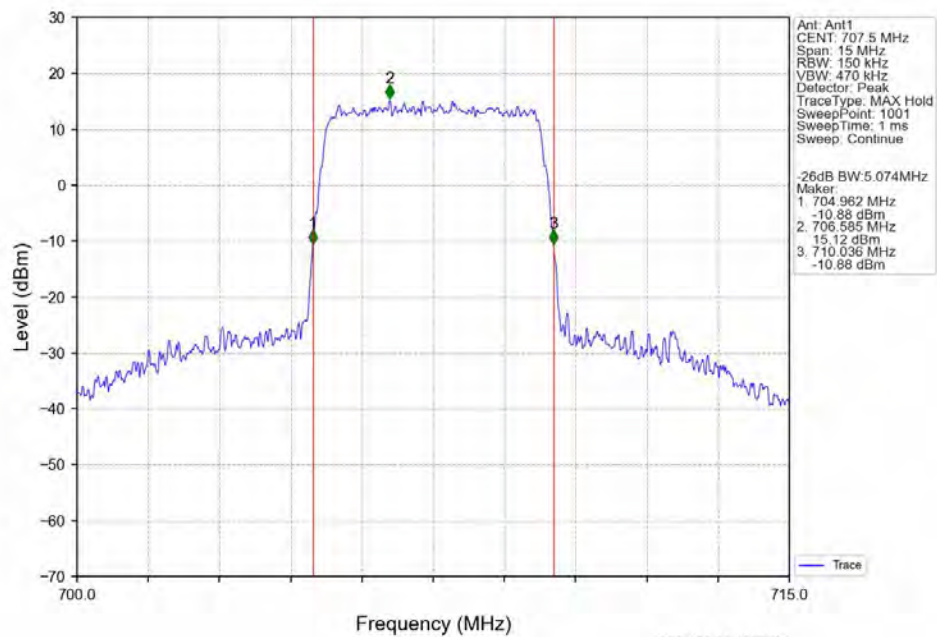
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



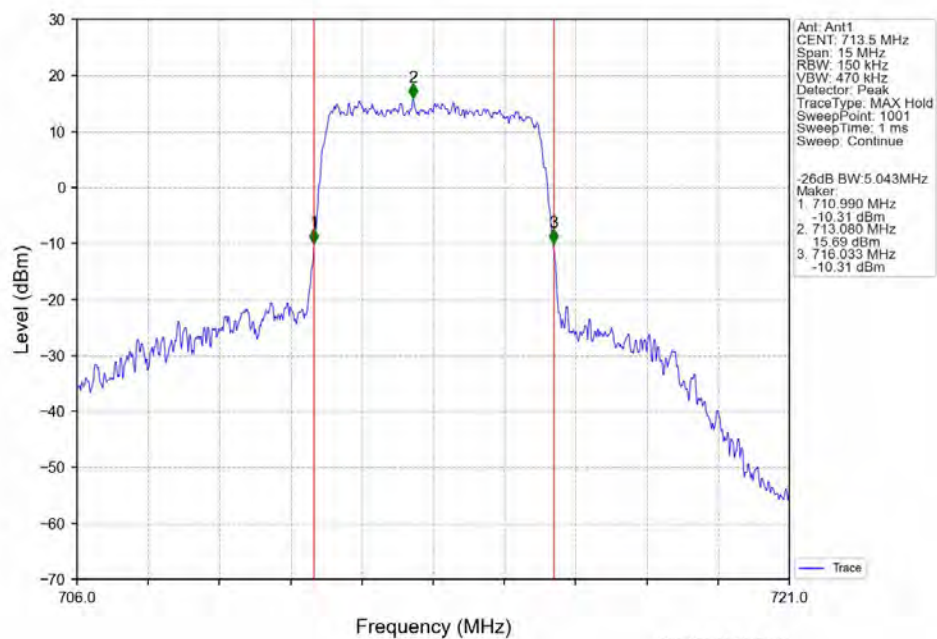
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



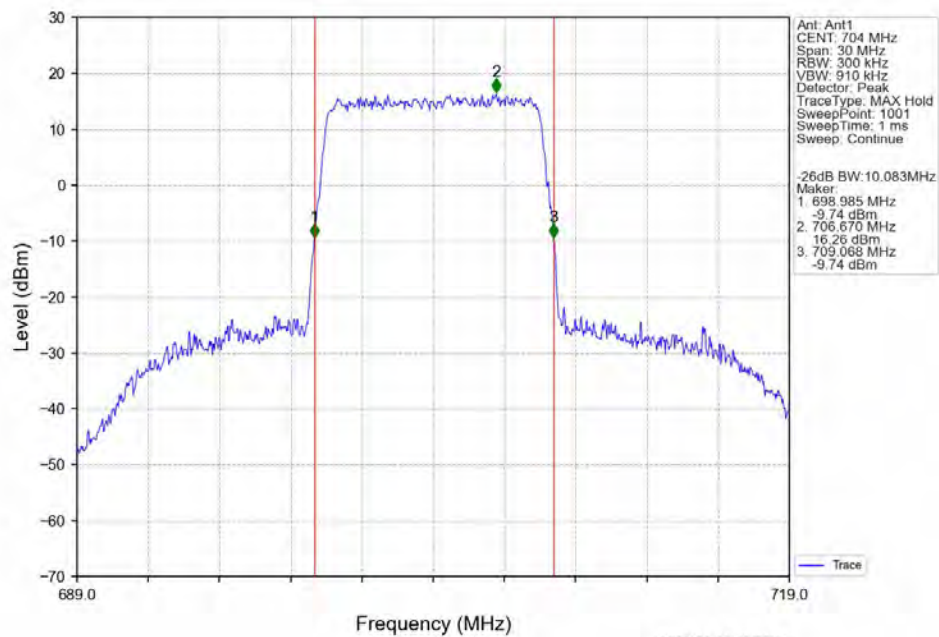
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



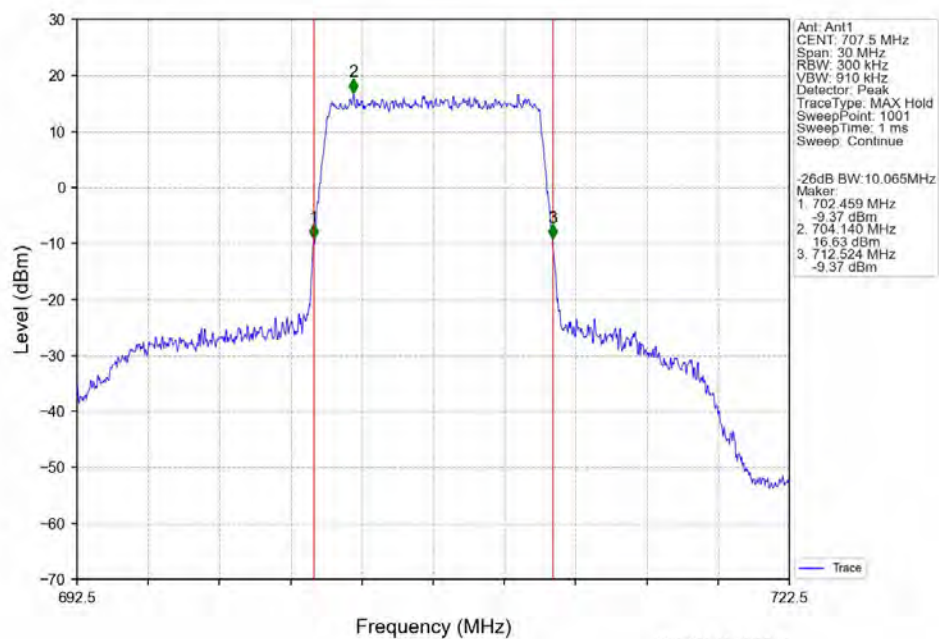
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



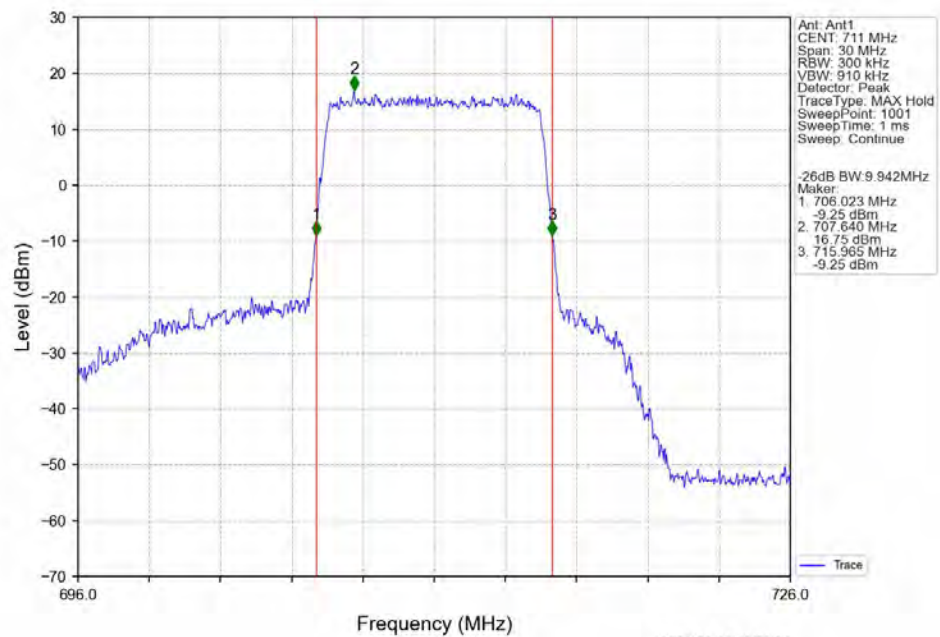
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



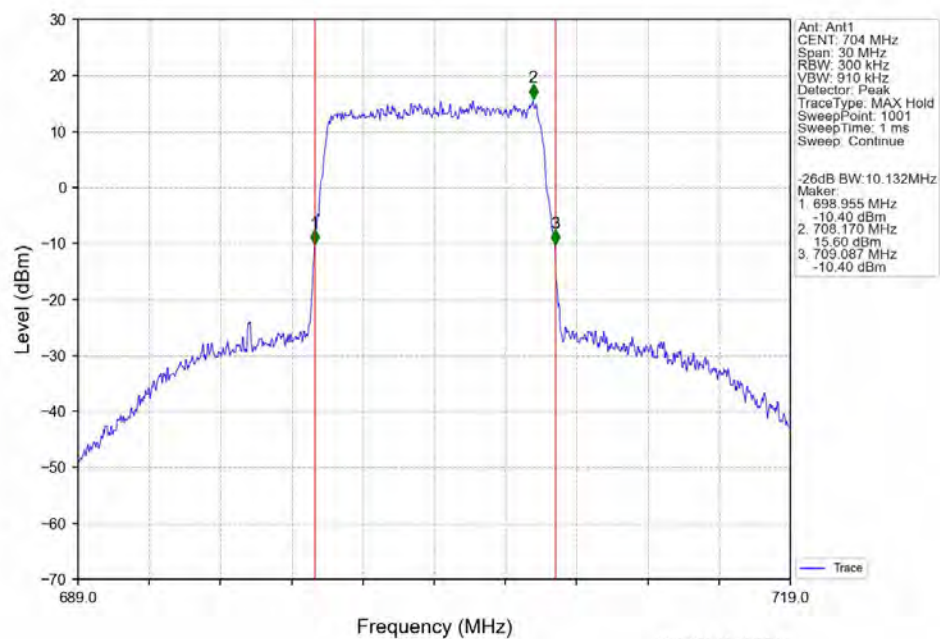
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



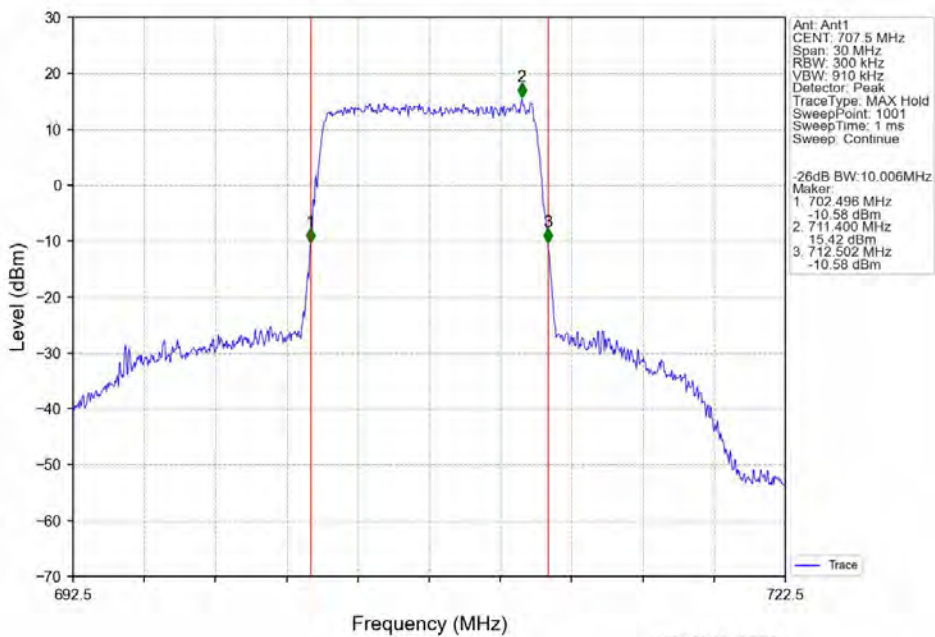
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



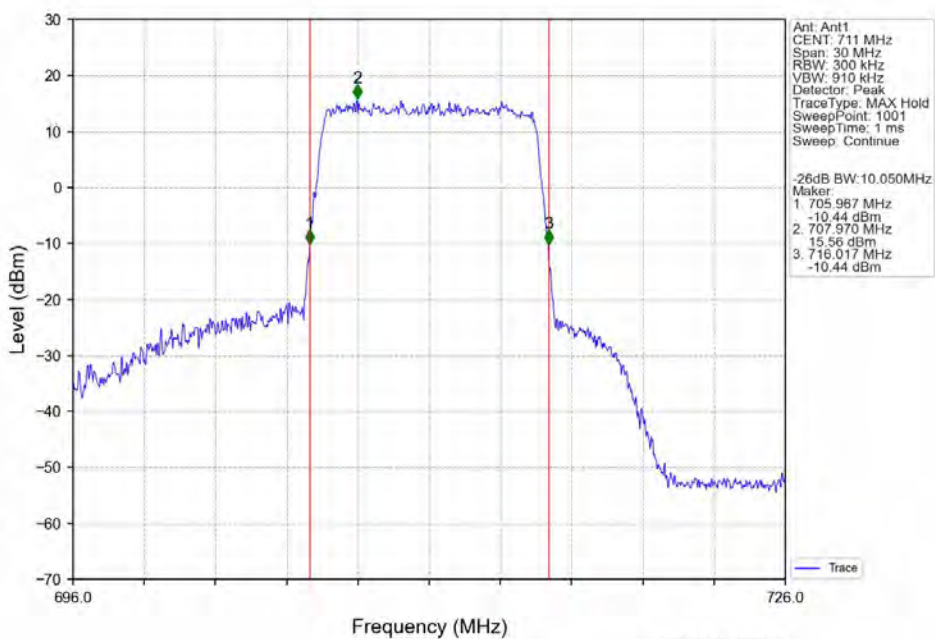
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



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	5.41	<=13	Pass
	707.5	6	0	5.26	<=13	Pass
	715.3	6	0	4.39	<=13	Pass
16QAM	699.7	6	0	6.10	<=13	Pass
	707.5	6	0	6.21	<=13	Pass
	715.3	6	0	5.41	<=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	5.44	<=13	Pass
	707.5	15	0	5.33	<=13	Pass
	714.5	15	0	4.68	<=13	Pass
16QAM	700.5	15	0	6.22	<=13	Pass
	707.5	15	0	6.22	<=13	Pass
	714.5	15	0	5.80	<=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	5.54	<=13	Pass
	707.5	25	0	5.48	<=13	Pass
	713.5	25	0	5.15	<=13	Pass
16QAM	701.5	25	0	6.33	<=13	Pass
	707.5	25	0	6.25	<=13	Pass
	713.5	25	0	5.98	<=13	Pass

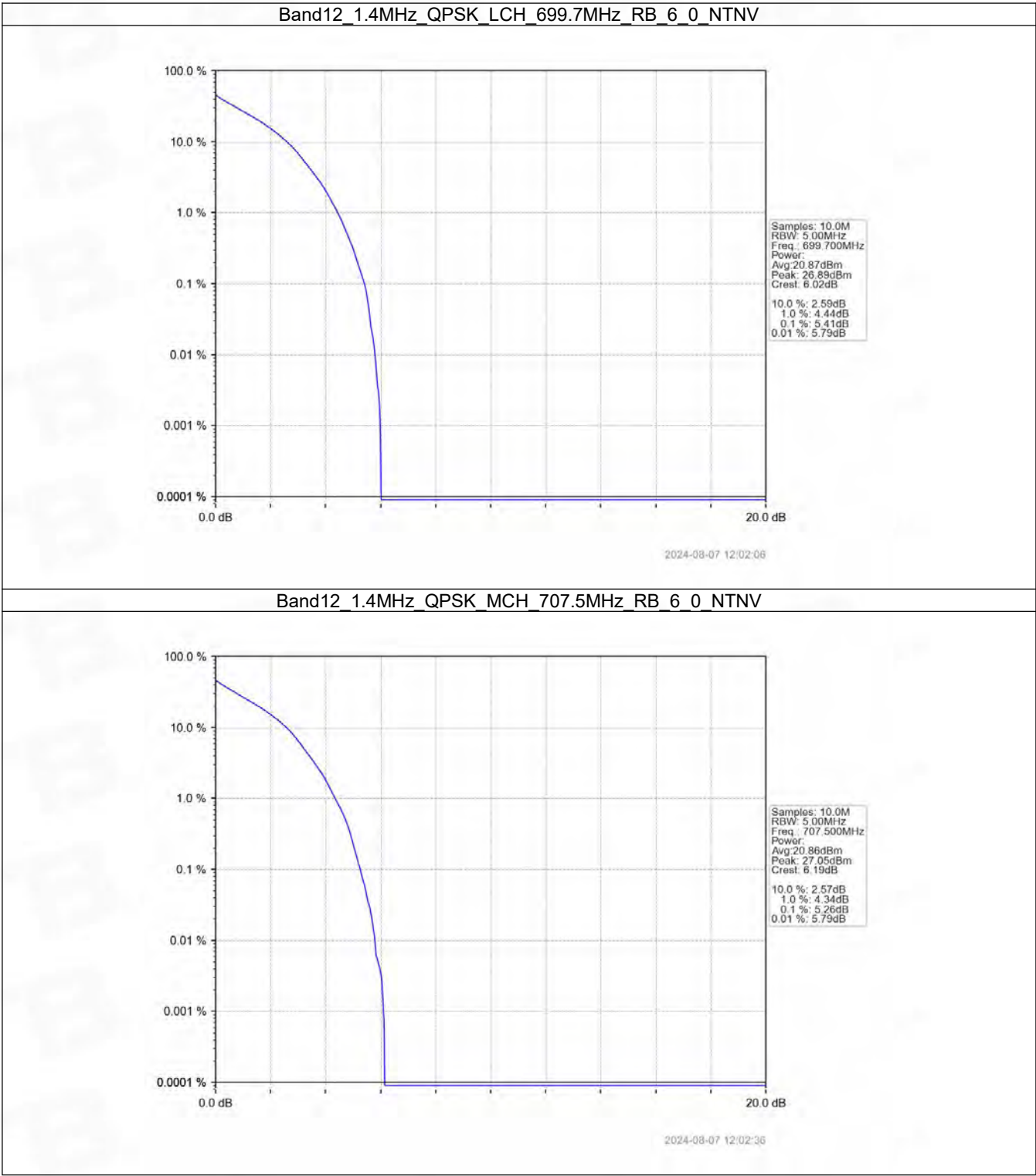
5.1.4 B12_10MHz

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	5.51	<=13	Pass
	707.5	50	0	5.51	<=13	Pass
	711	50	0	5.36	<=13	Pass
16QAM	704	50	0	6.31	<=13	Pass
	707.5	50	0	6.32	<=13	Pass

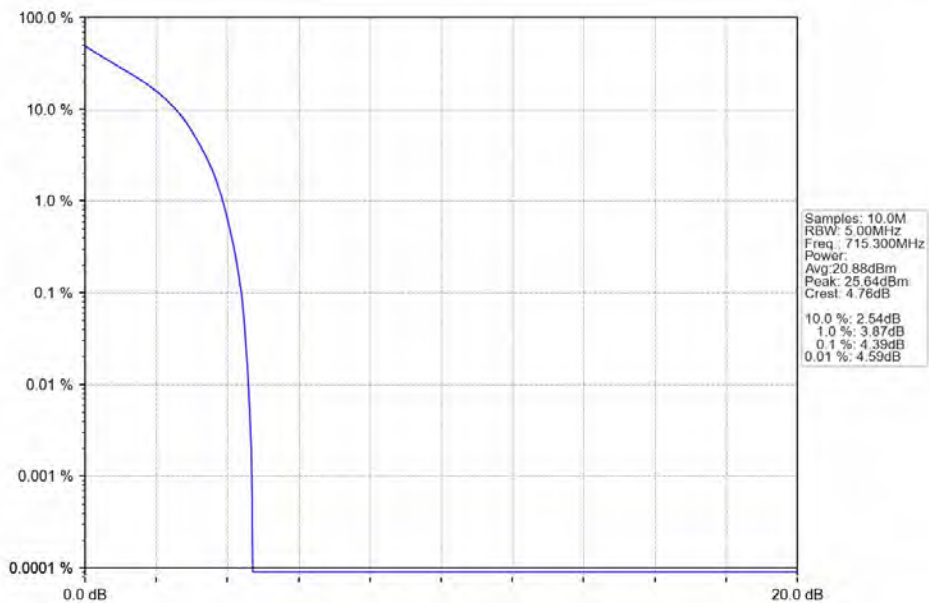
	711	50	0	6.09	<=13	Pass
--	-----	----	---	------	------	------

5.2 Test Graph

5.2.1 B12_1.4MHz

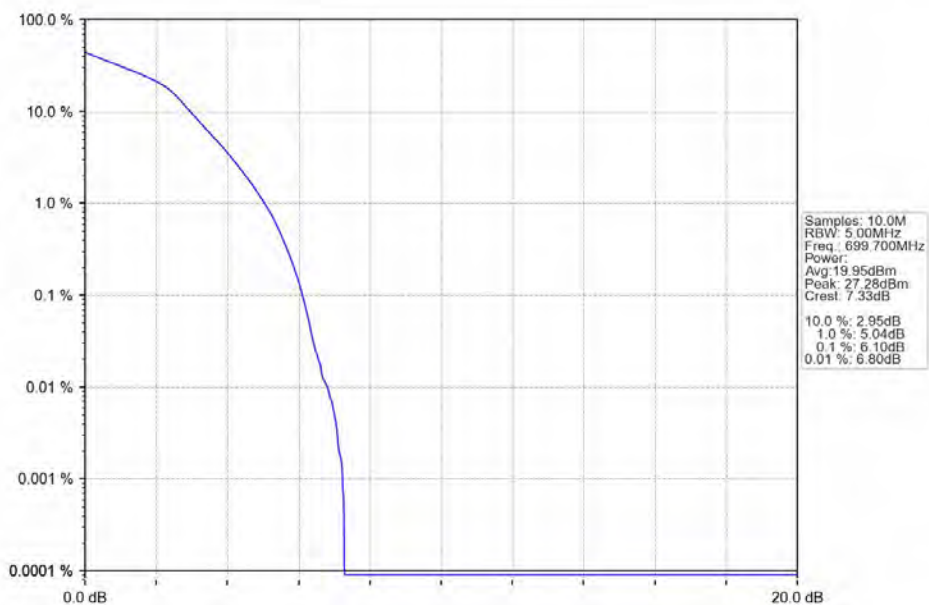


Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



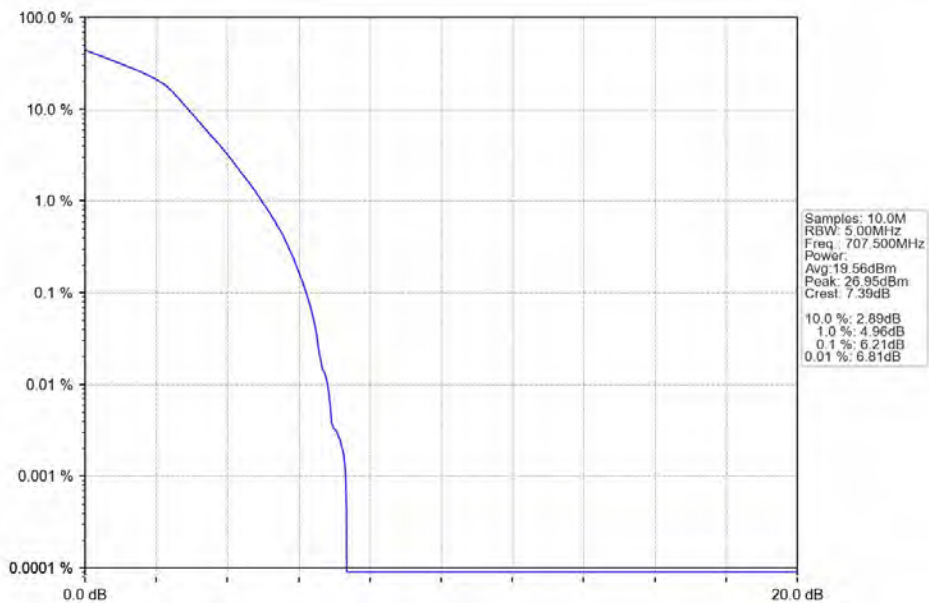
2024-08-07 12:03:34

Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



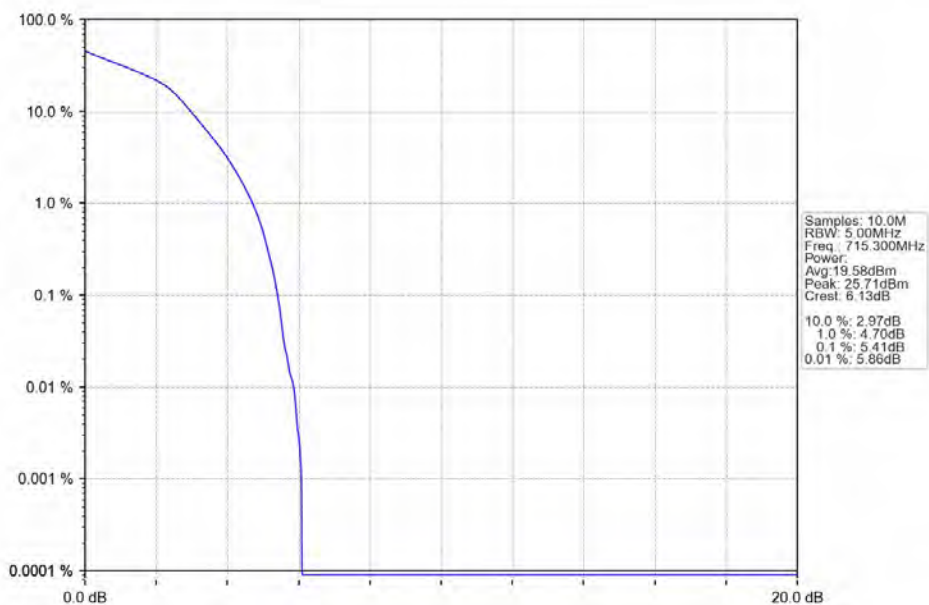
2024-08-07 12:02:20

Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



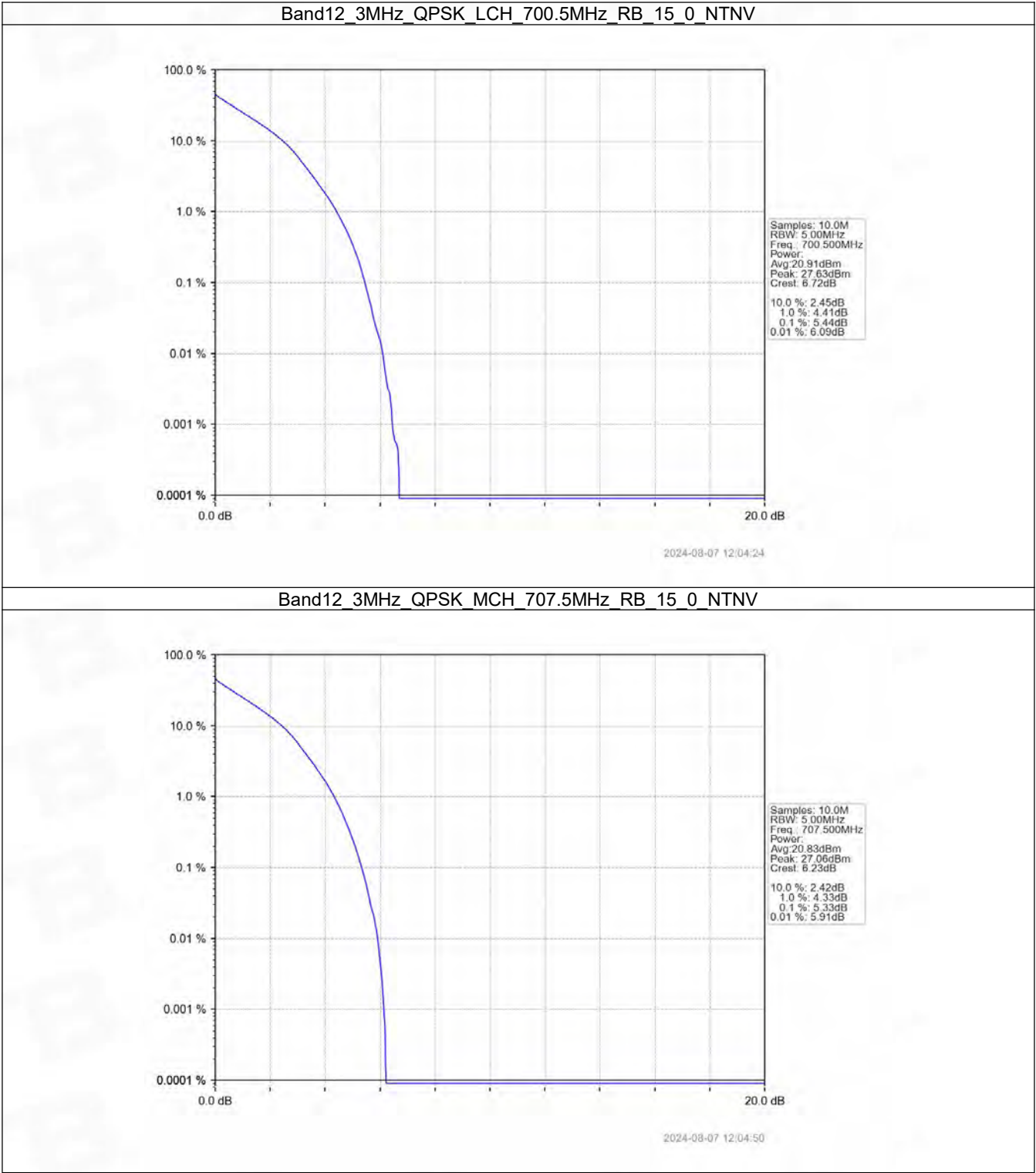
2024-08-07 12:02:49

Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV

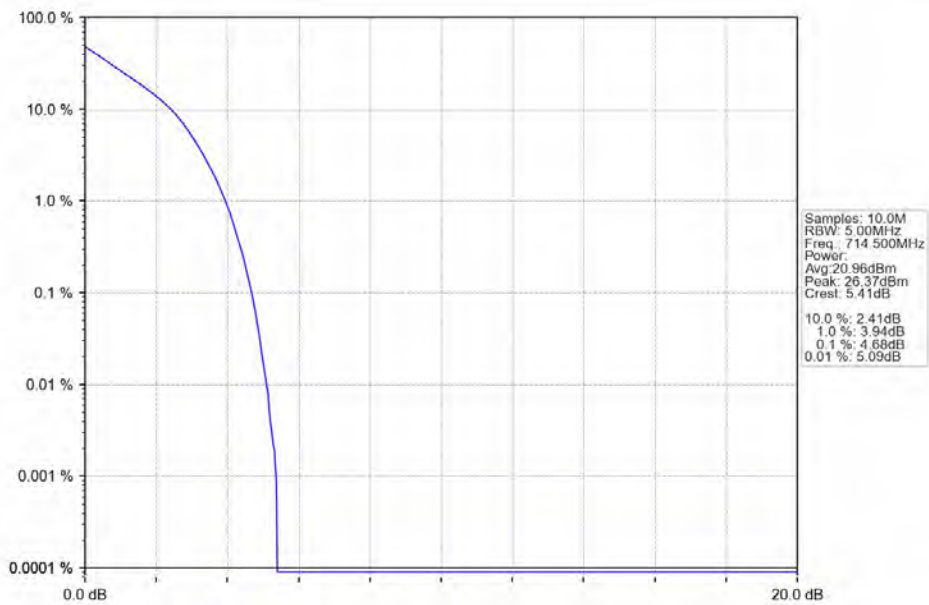


2024-08-07 12:03:45

5.2.2 B12_3MHz

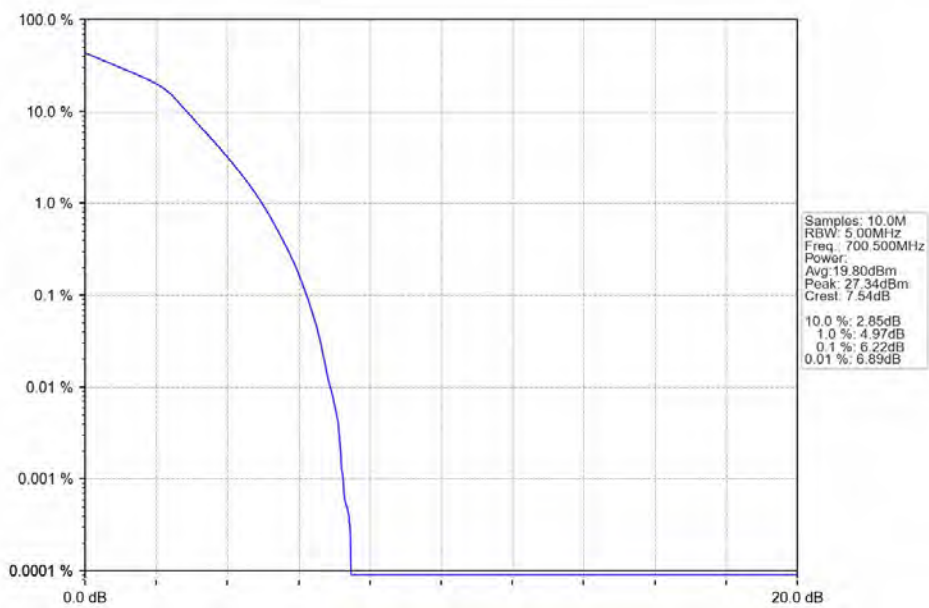


Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



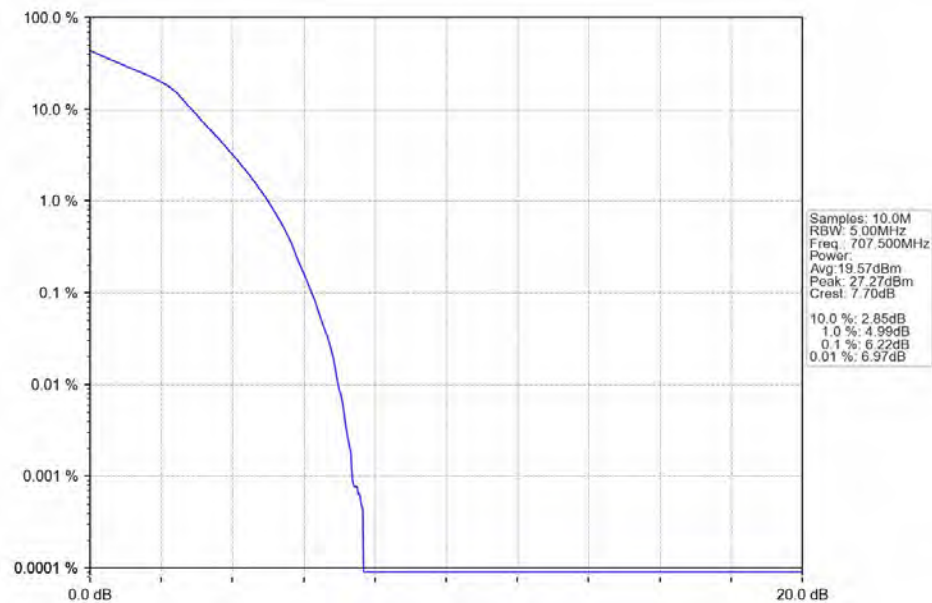
2024-08-07 12:05:17

Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



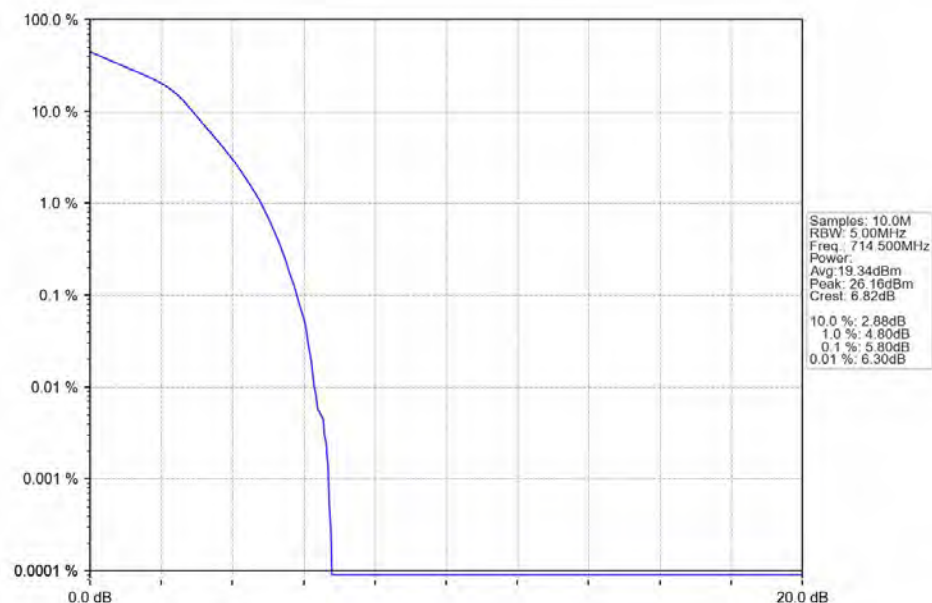
2024-08-07 12:04:36

Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



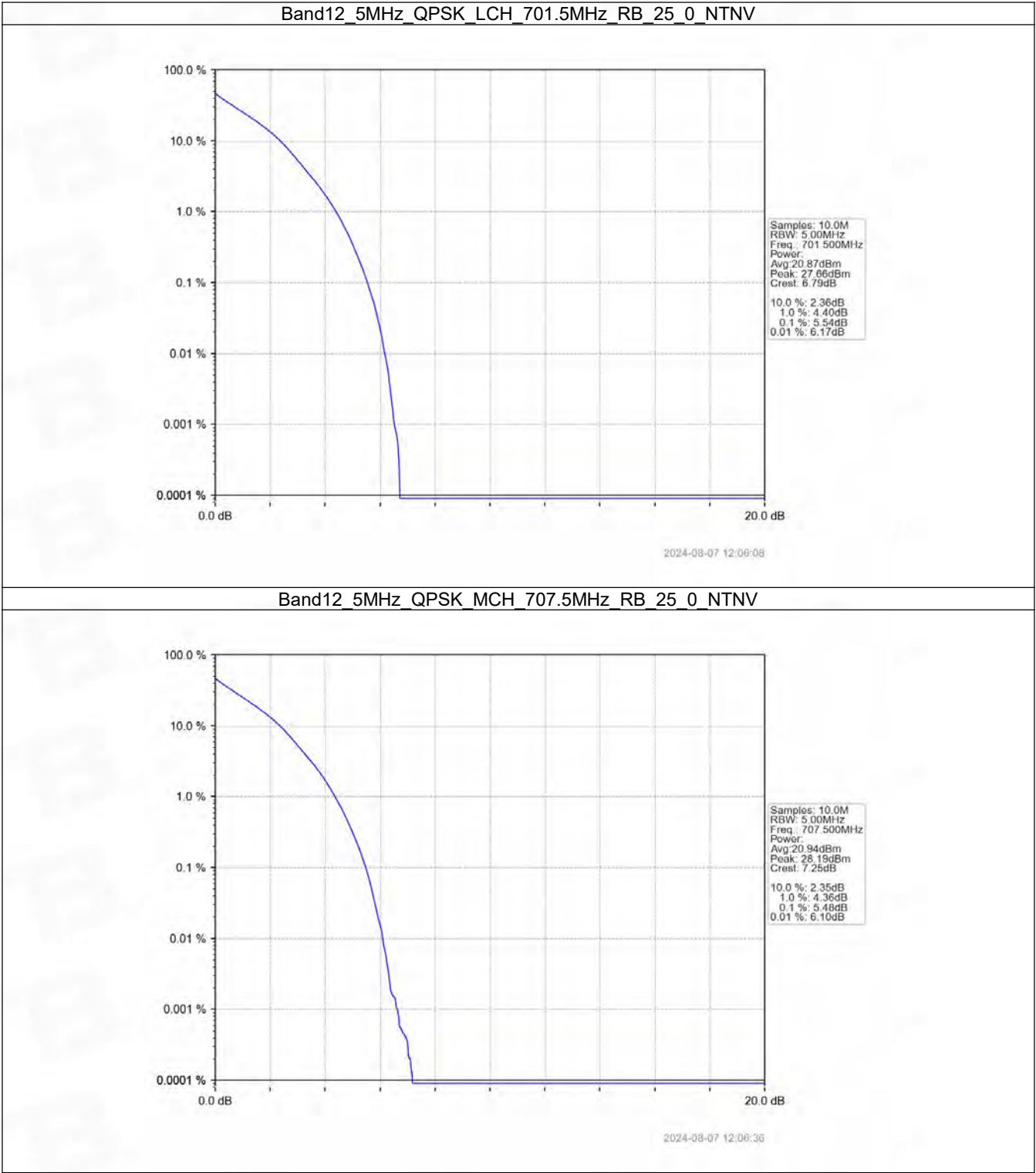
2024-08-07 12:05:03

Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV

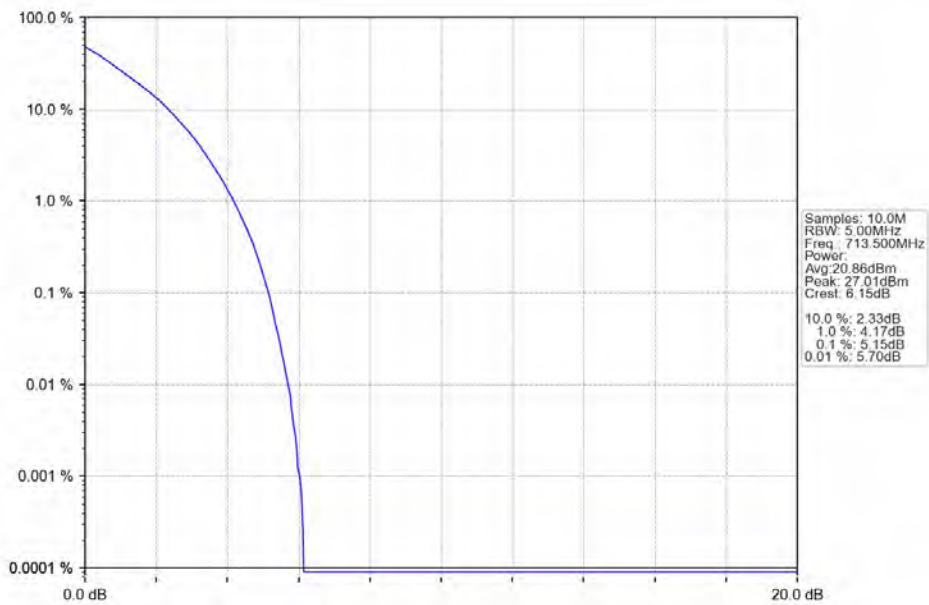


2024-08-07 12:05:29

5.2.3 B12_5MHz

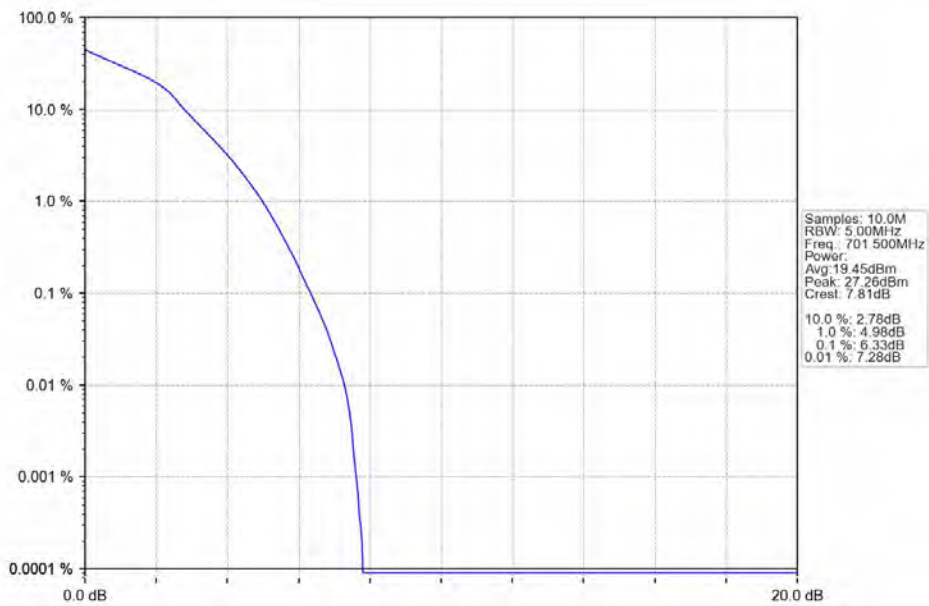


Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



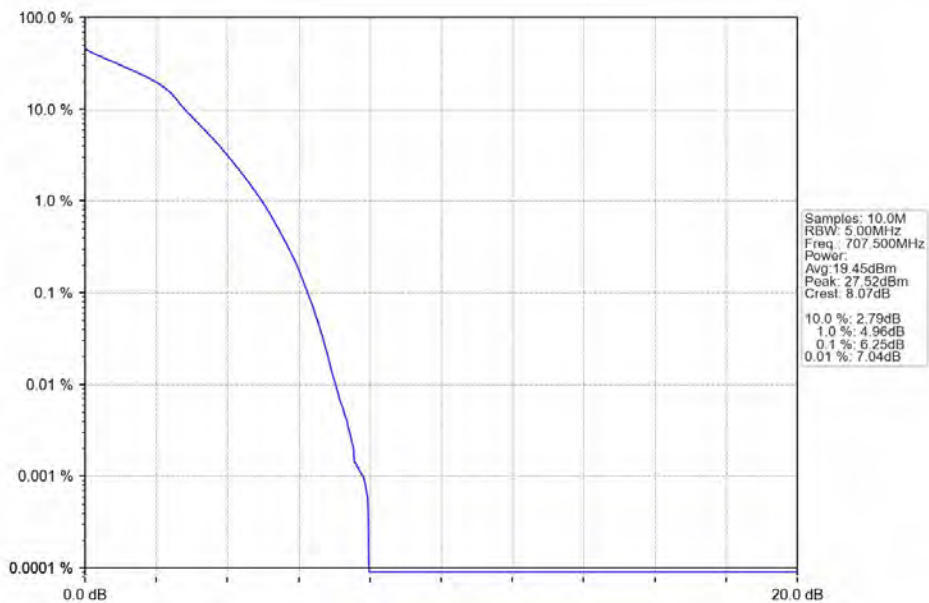
2024-08-07 12:07:03

Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



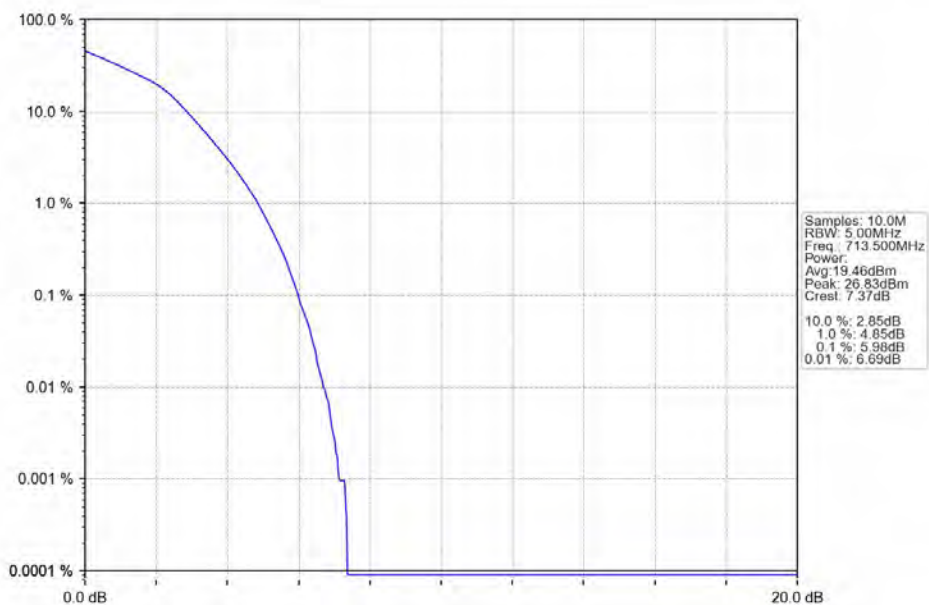
2024-08-07 12:06:21

Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



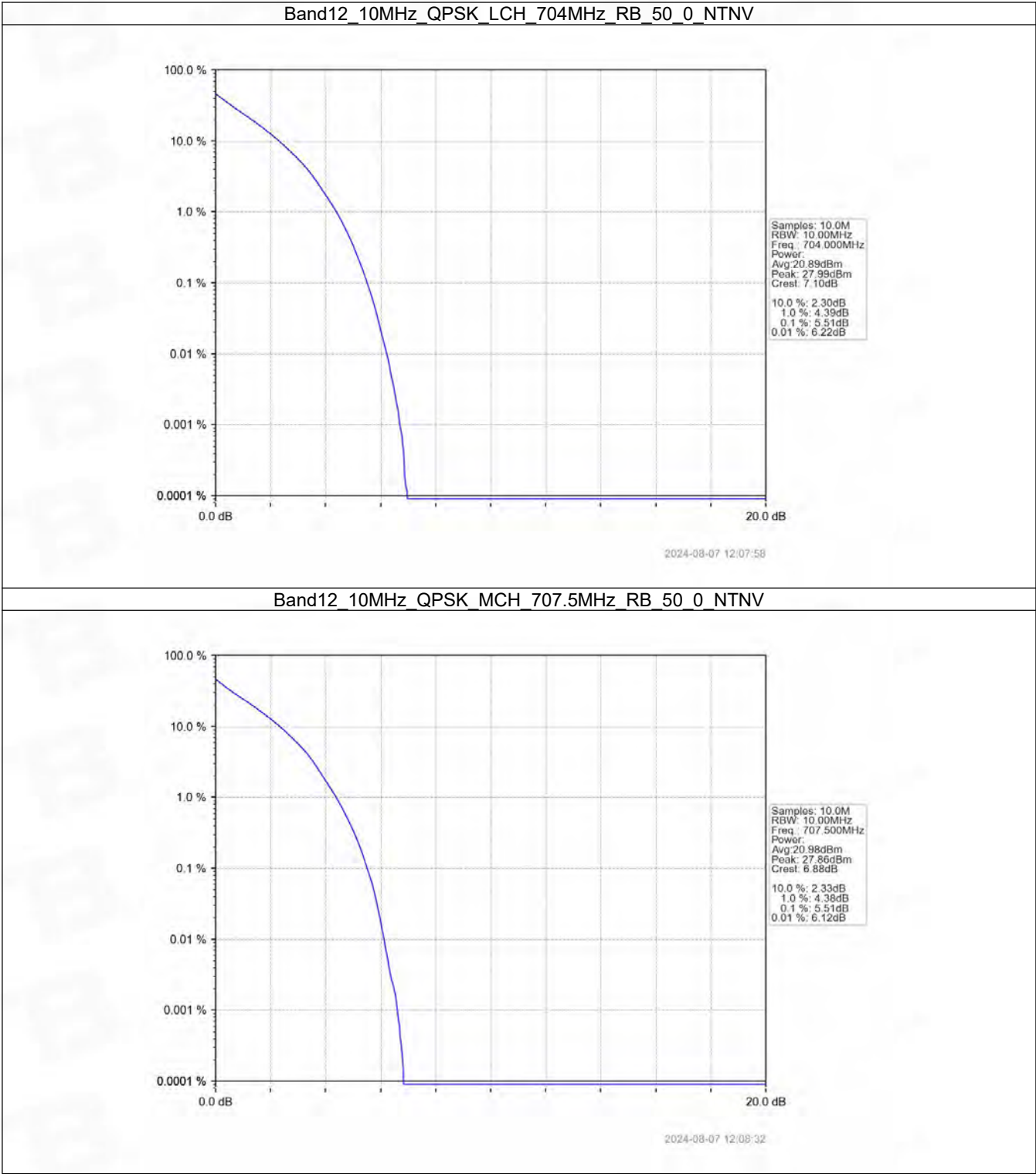
2024-08-07 12:06:49

Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

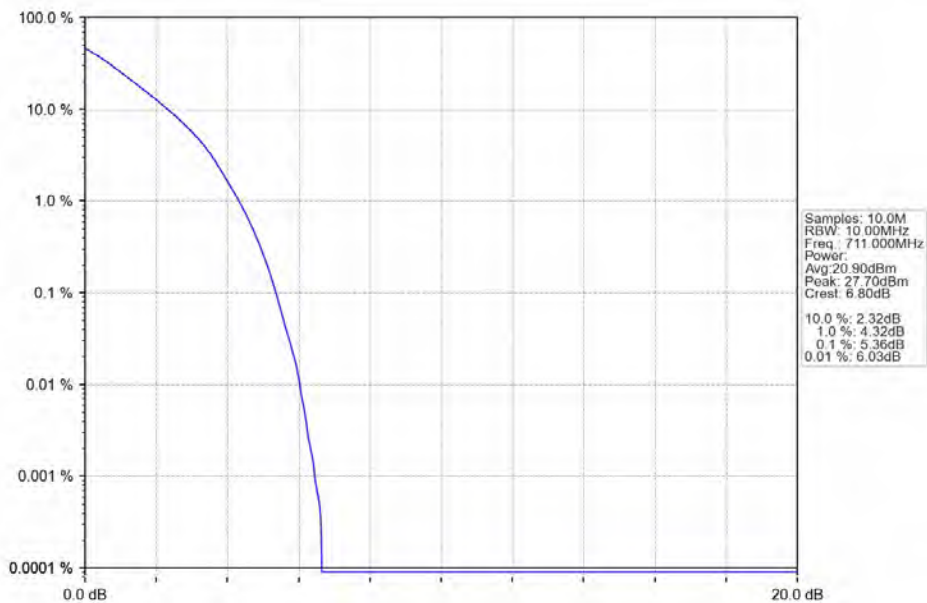


2024-08-07 12:07:15

5.2.4 B12_10MHz

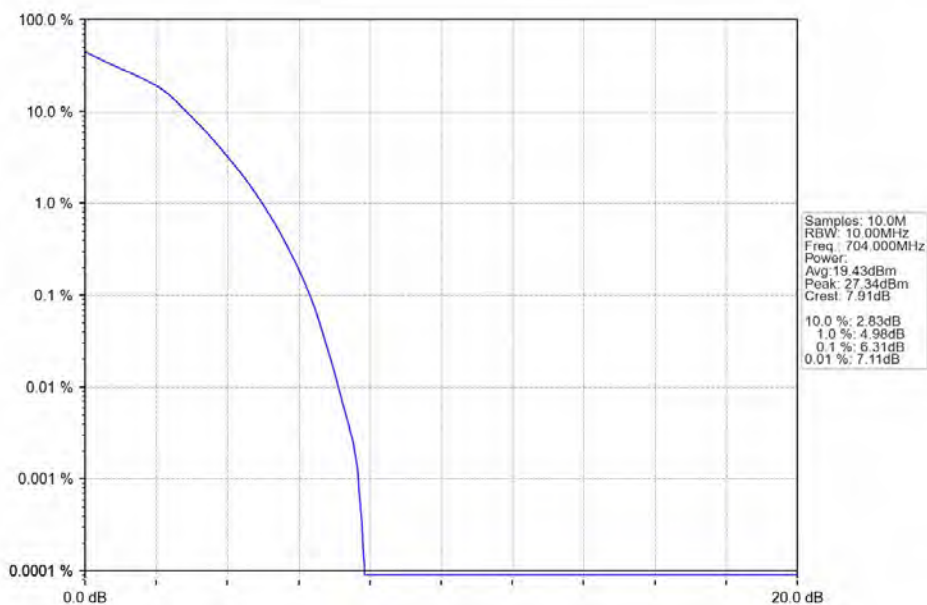


Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



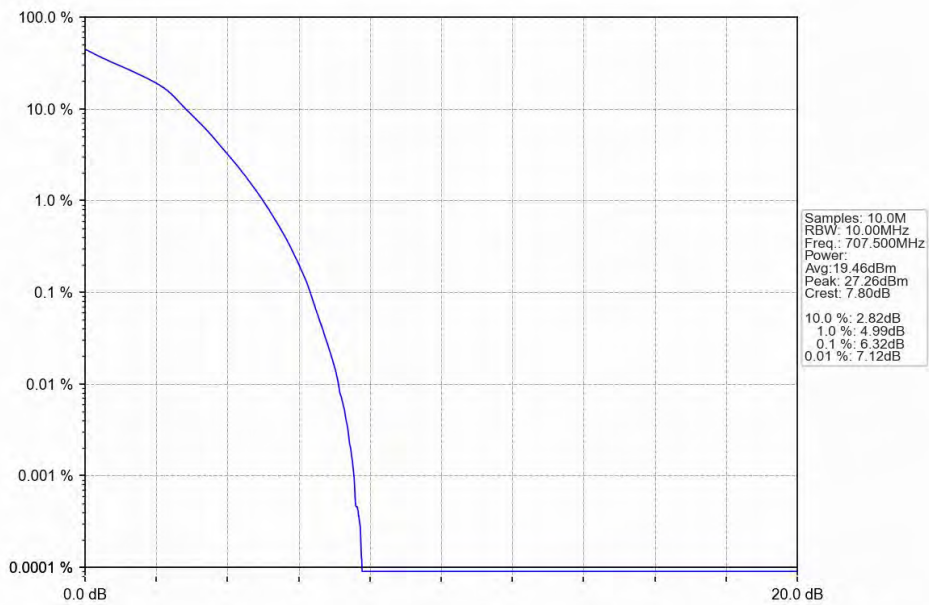
2024-08-07 12:09:06

Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



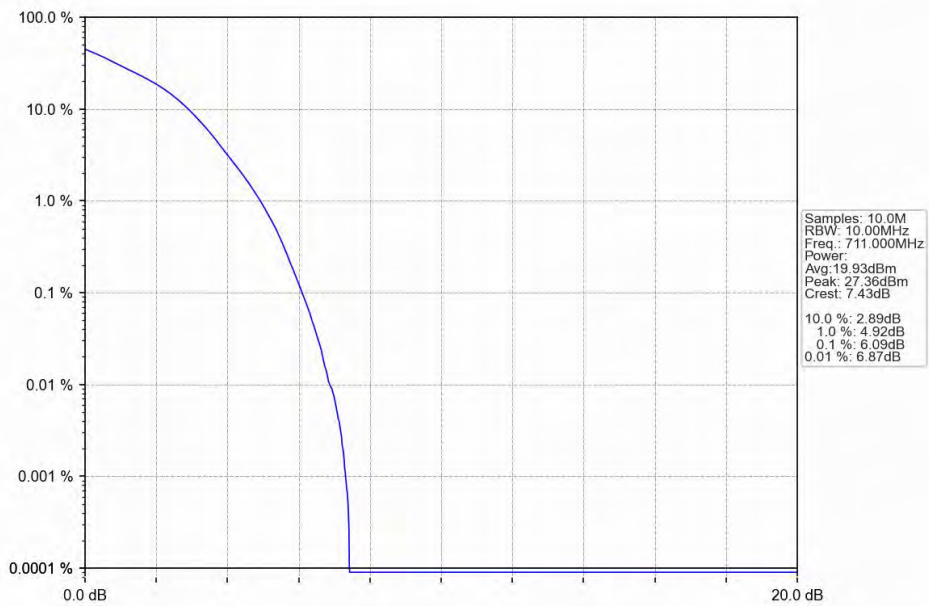
2024-08-07 12:08:14

Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



2024-08-07 12:08:48

Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



2024-08-07 12:09:21

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
	714.5	1	0	Refer To Test Graph		Pass
		1	14	Refer To Test Graph		Pass
		15	0	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

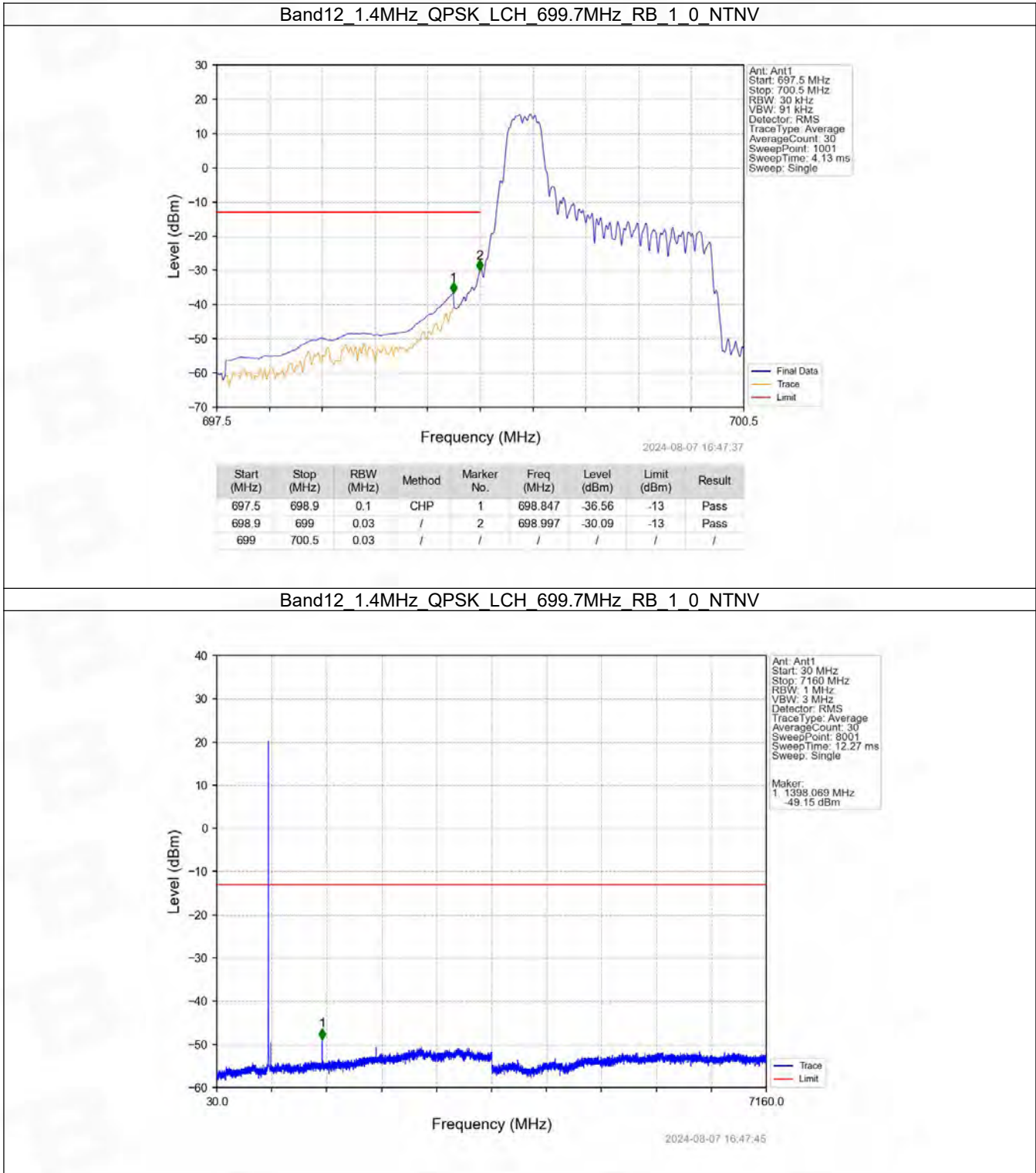
	707.5	25	0	Refer To Test Graph	Pass
		1	0	Refer To Test Graph	Pass
	713.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass

6.1.4 B12_10MHz

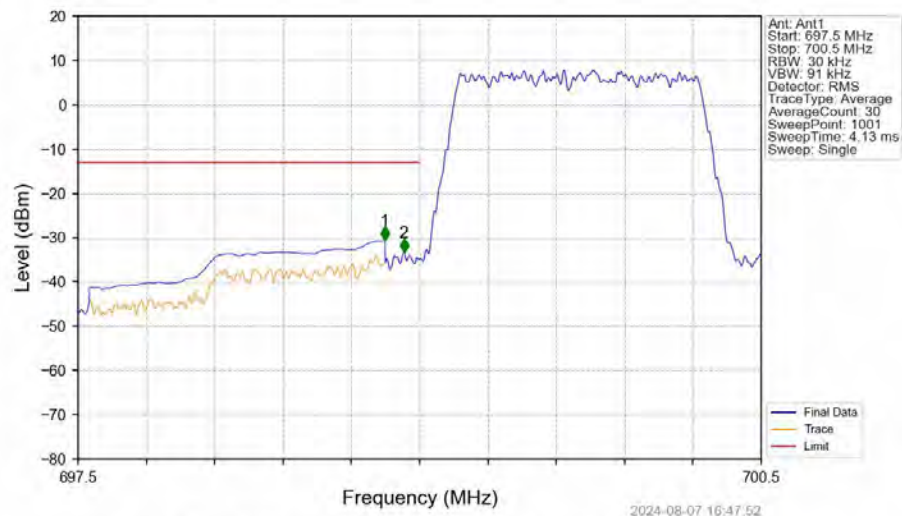
Band: 12 / Bandwidth: 10MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	704	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph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

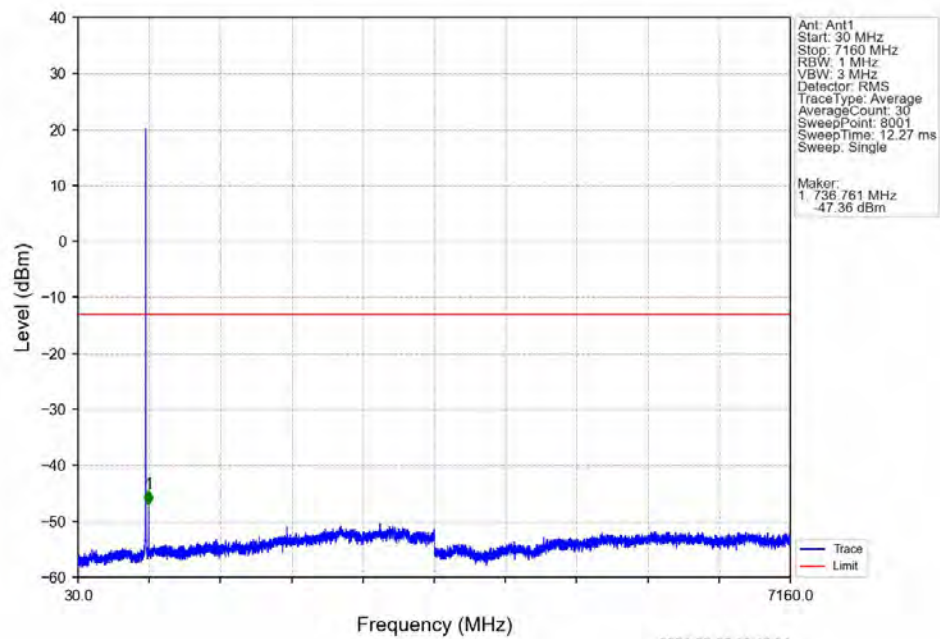


Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV

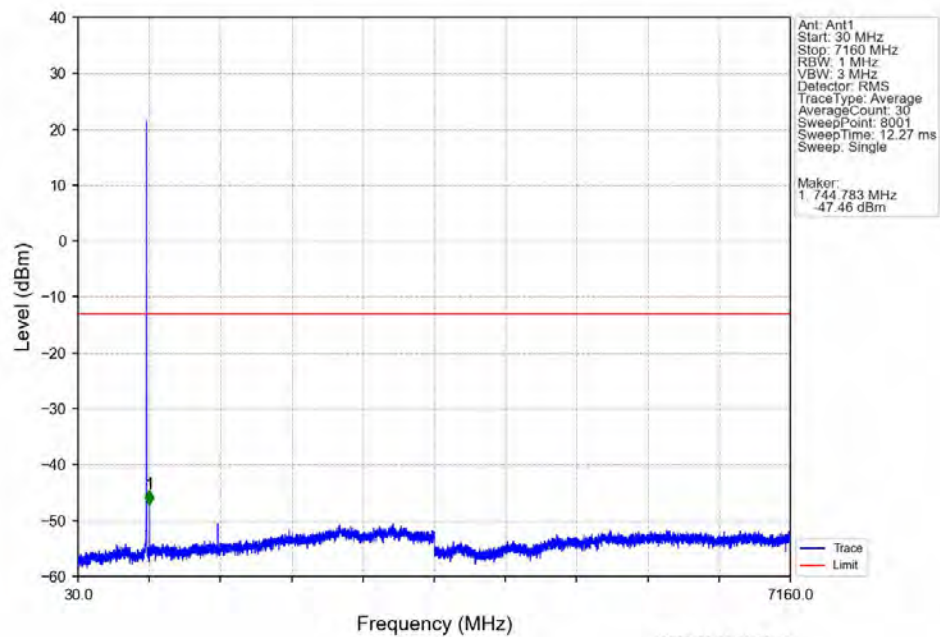


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-30.58	-13	Pass
698.9	699	0.03	/	2	698.931	-33.32	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

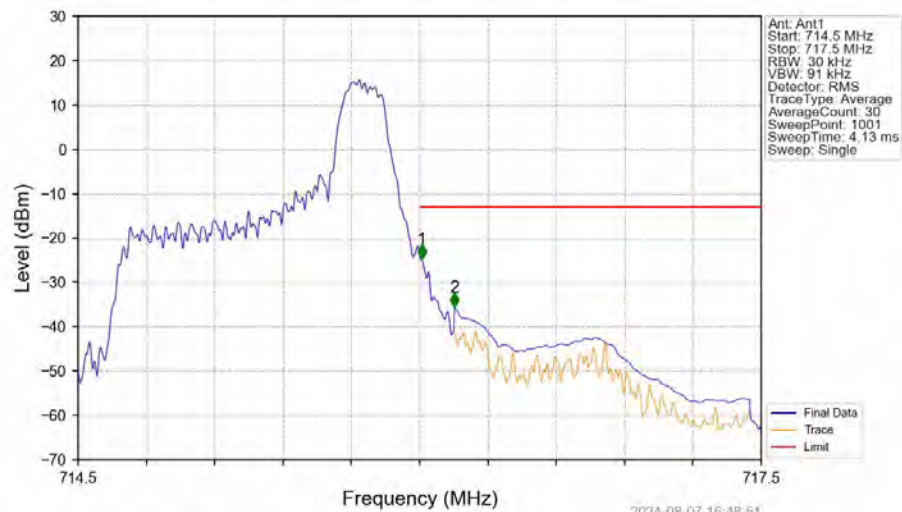
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV

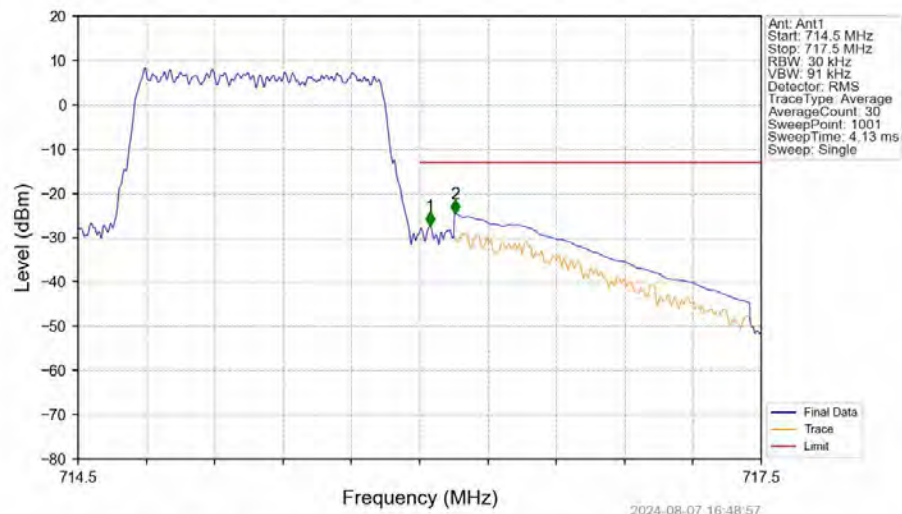


Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_5_NTNV



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	716.009	-24.60	-13	Pass
716.1	717.5	0.1	CHP	2	716.153	-35.59	-13	Pass

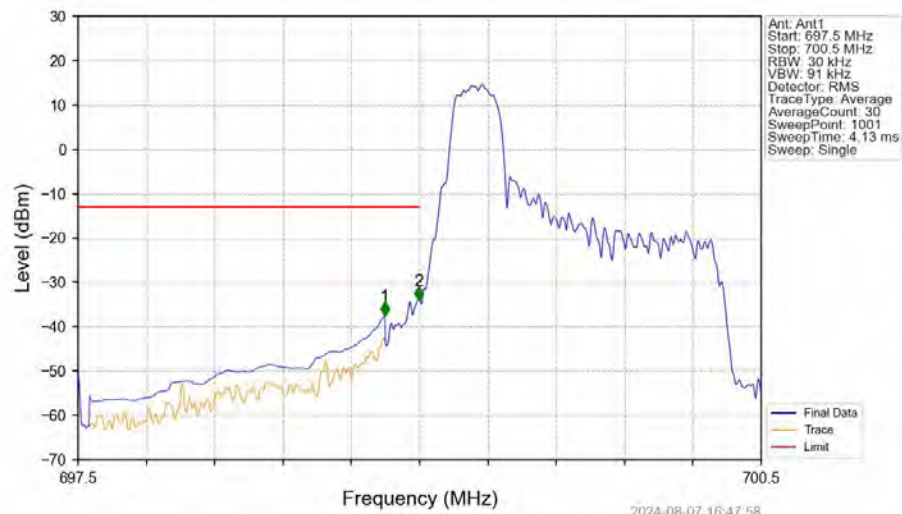
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



2024-08-07 16:48:57

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	716.045	-27.29	-13	Pass
716.1	717.5	0.1	CHP	2	716.156	-24.61	-13	Pass

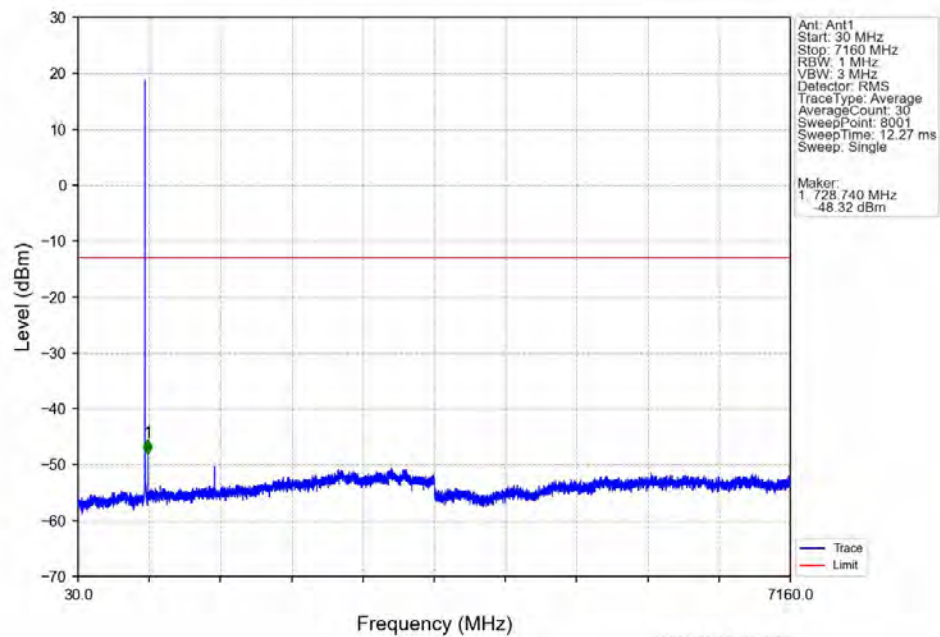
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV



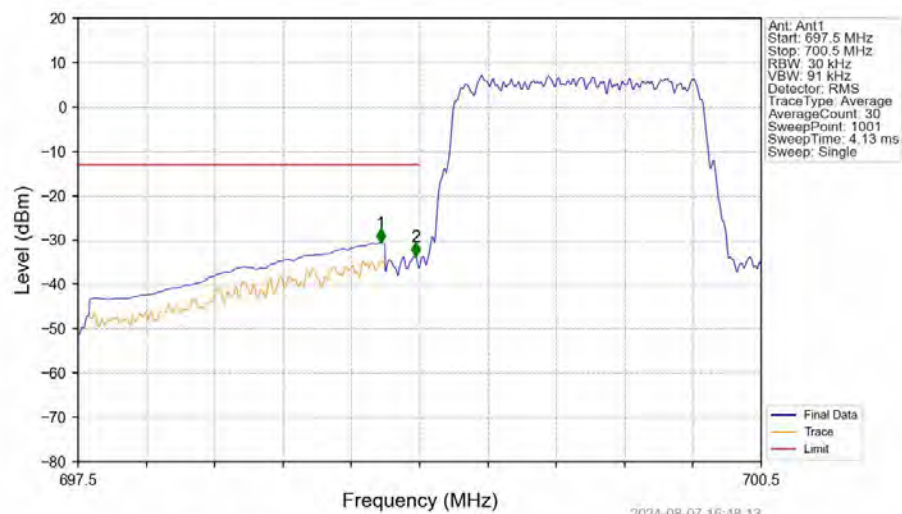
2024-08-07 16:47:58

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	-37.52	-13	Pass
698.9	699	0.03	/	2	698.997	-33.99	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

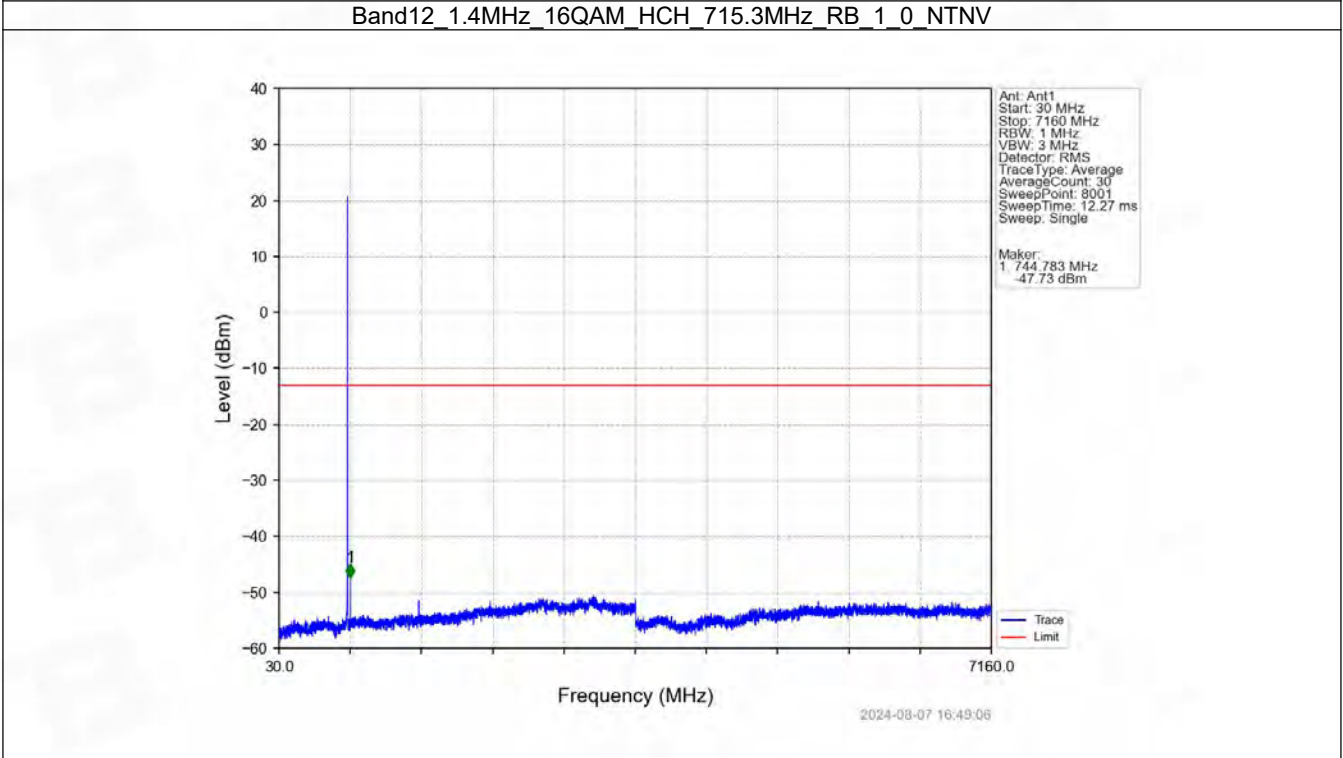
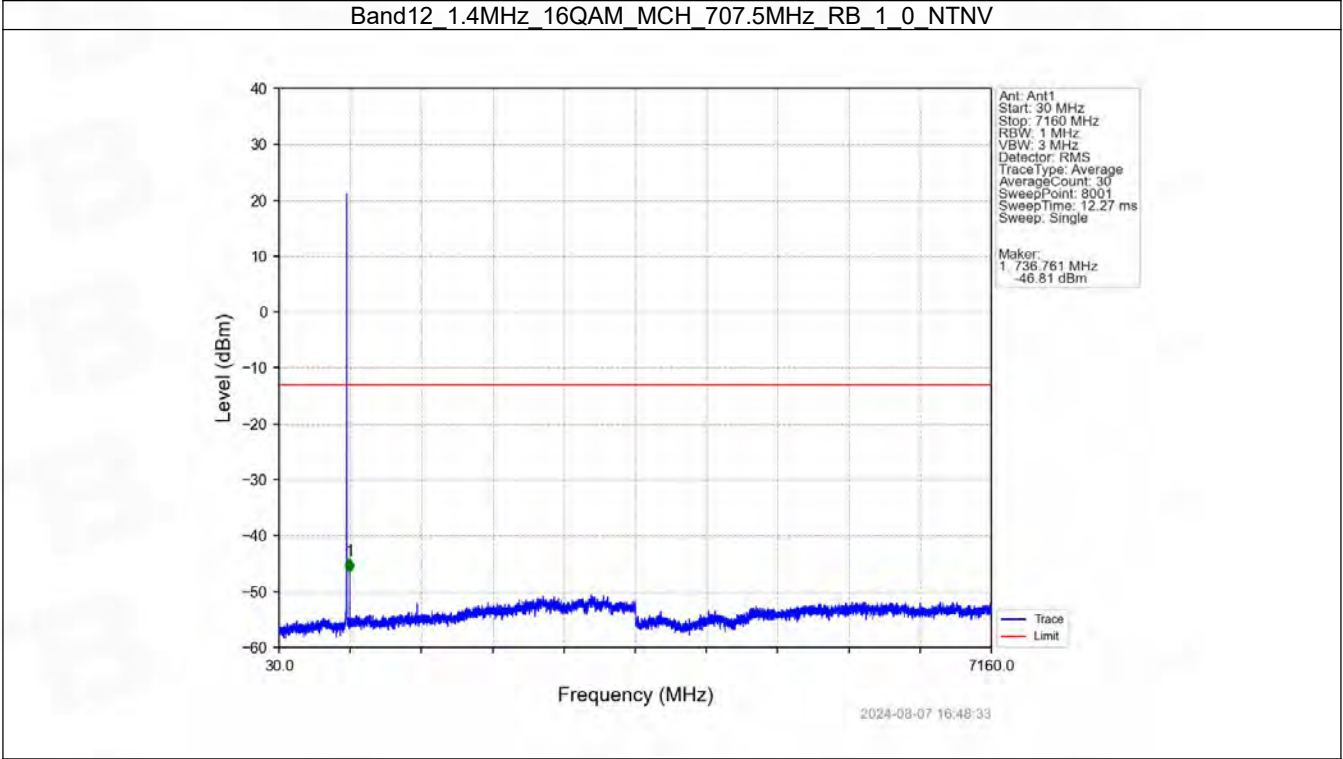
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV



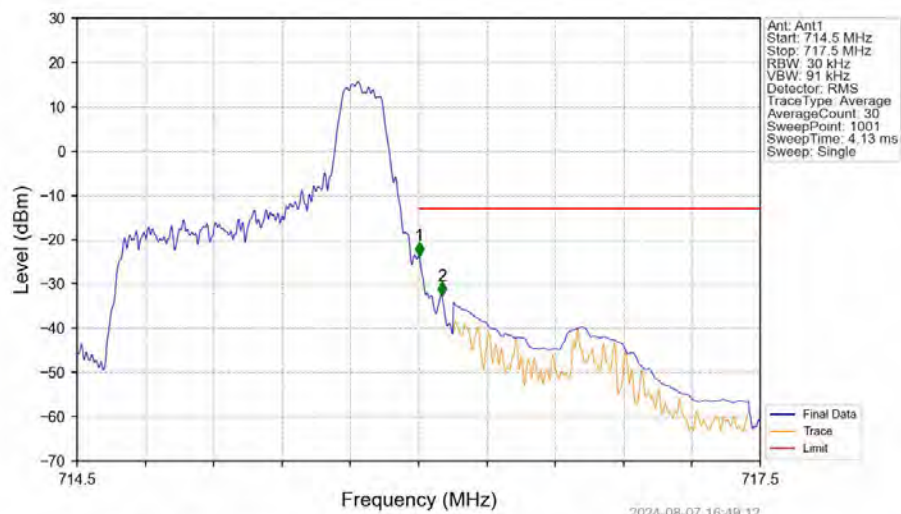
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



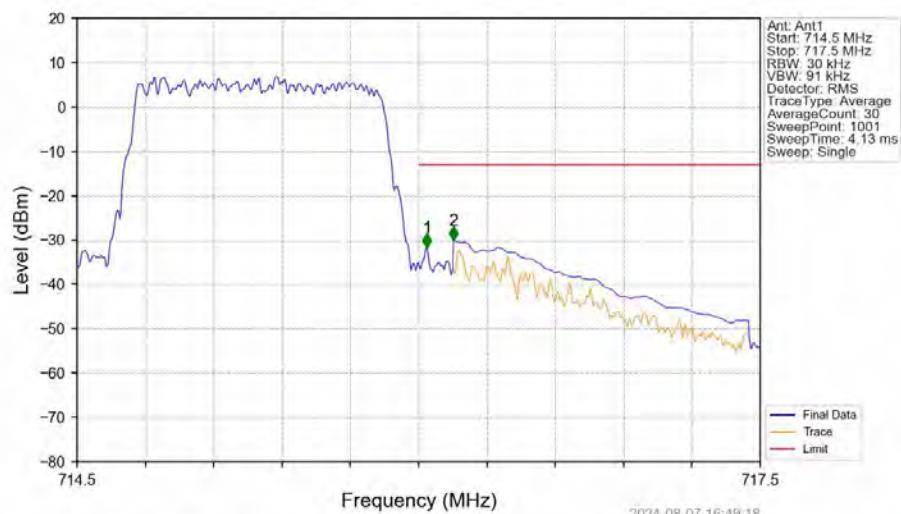
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.829	-30.61	-13	Pass
698.9	699	0.03	/	2	698.982	-33.68	-13	Pass
699	700.5	0.03	/	/	/	/	/	/



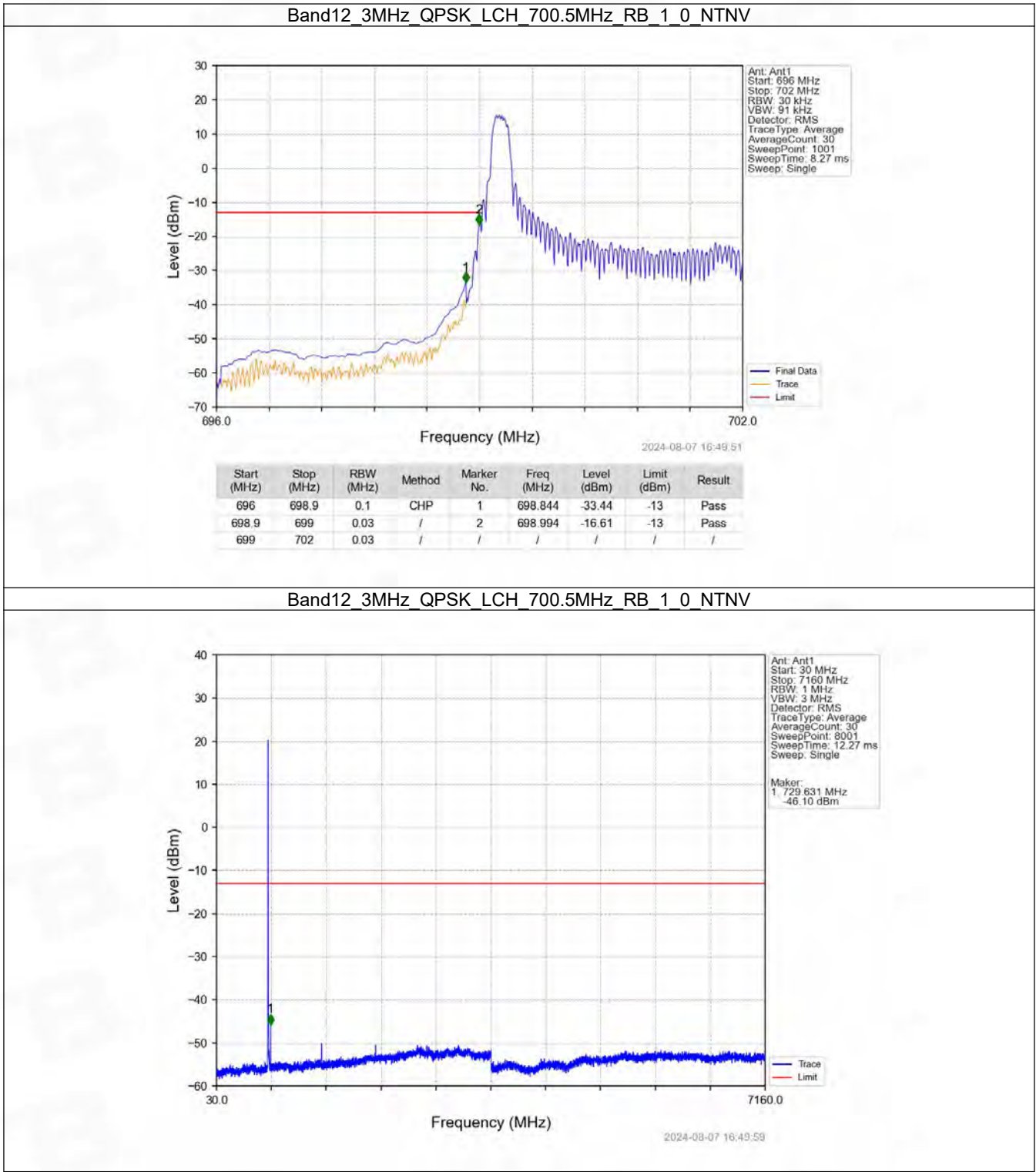
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_1_5_NTNV



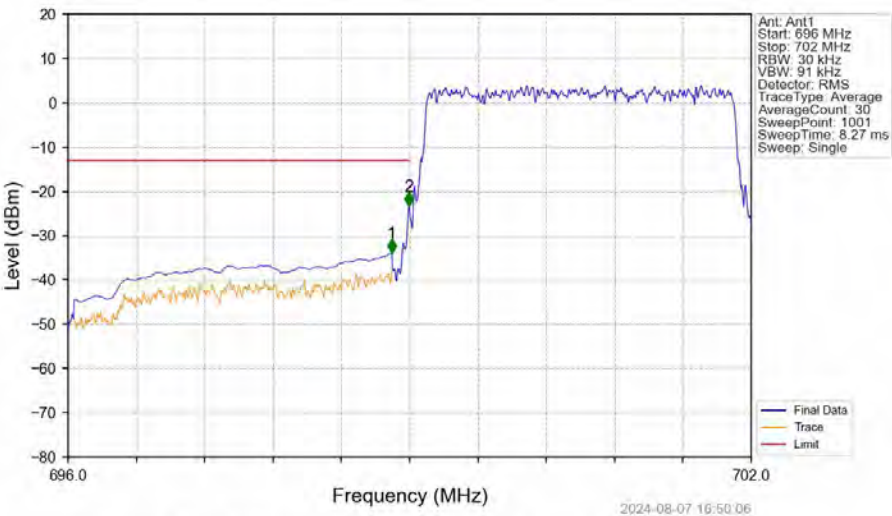
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



6.2.2 B12_3MHz

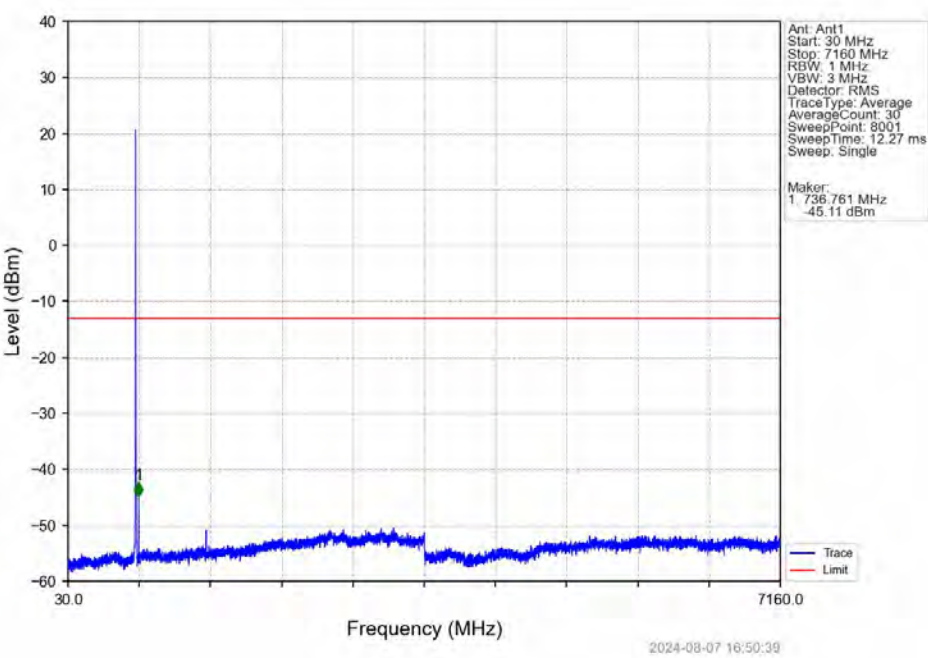


Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV

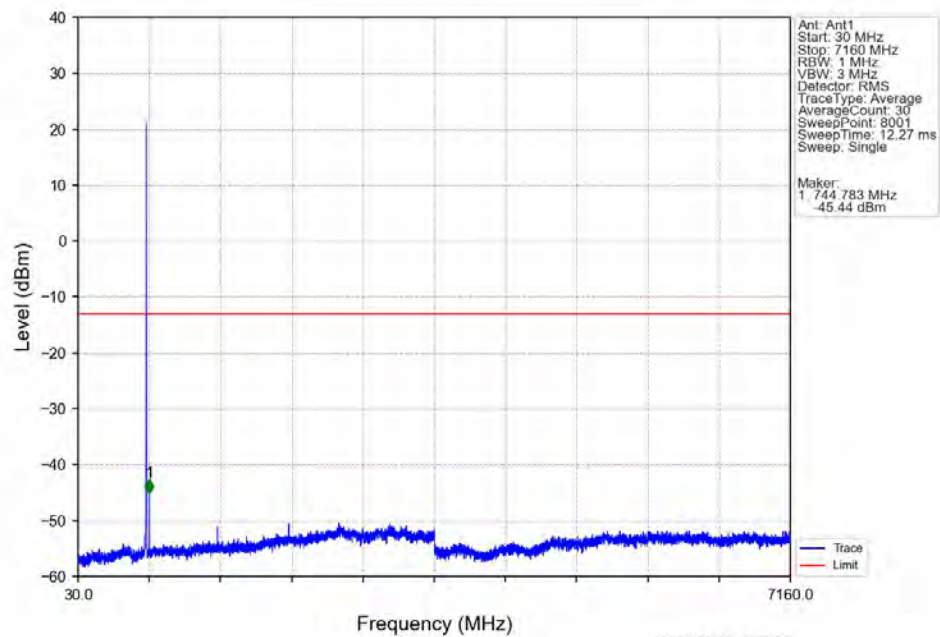


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-33.93	-13	Pass
698.9	699	0.03	/	2	698.994	-23.23	-13	Pass
699	702	0.03	/	/	/	/	/	/

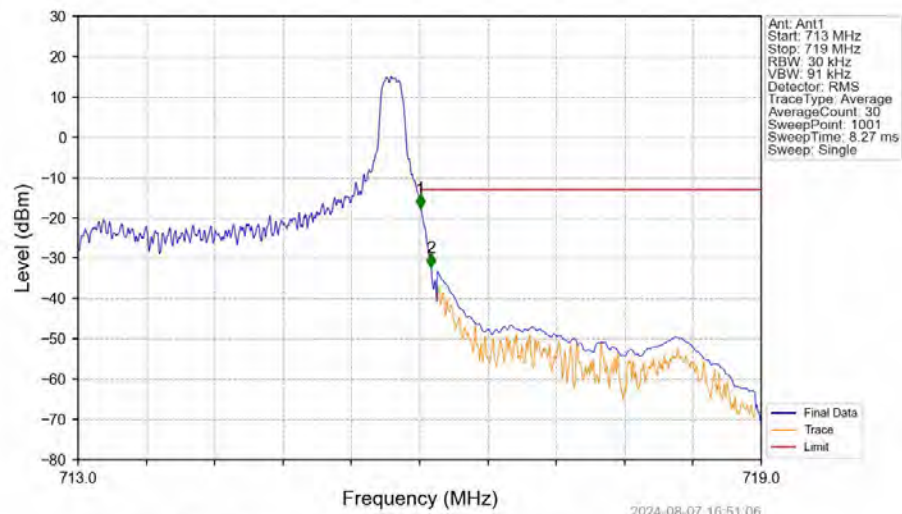
Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_0_NTNV

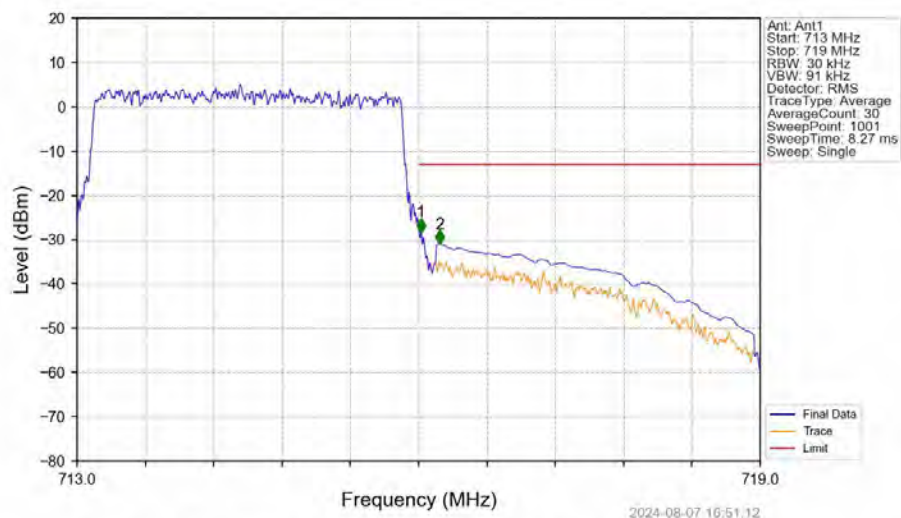


Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_14_NTNV



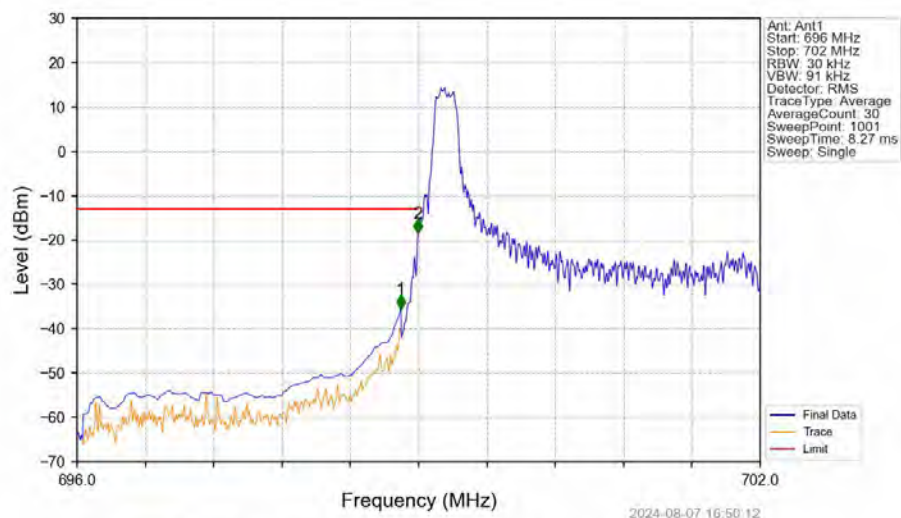
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.006	-17.61	-13	Pass
716.1	719	0.1	CHP	2	716.102	-32.30	-13	Pass

Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



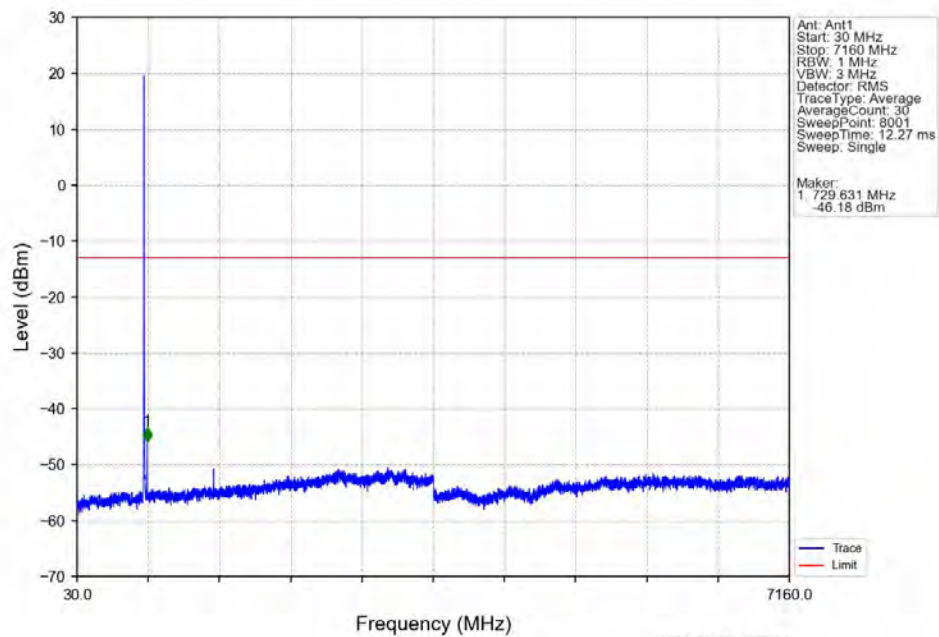
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.018	-28.31	-13	Pass
716.1	719	0.1	CHP	2	716.186	-31.03	-13	Pass

Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV

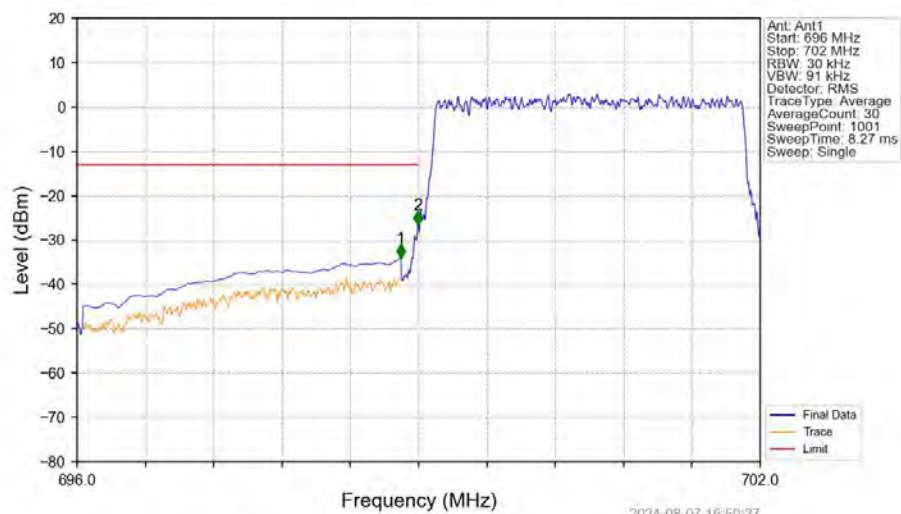


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-35.44	-13	Pass
698.9	699	0.03	/	2	698.994	-18.46	-13	Pass
699	702	0.03	/	/	/	/	/	/

Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV

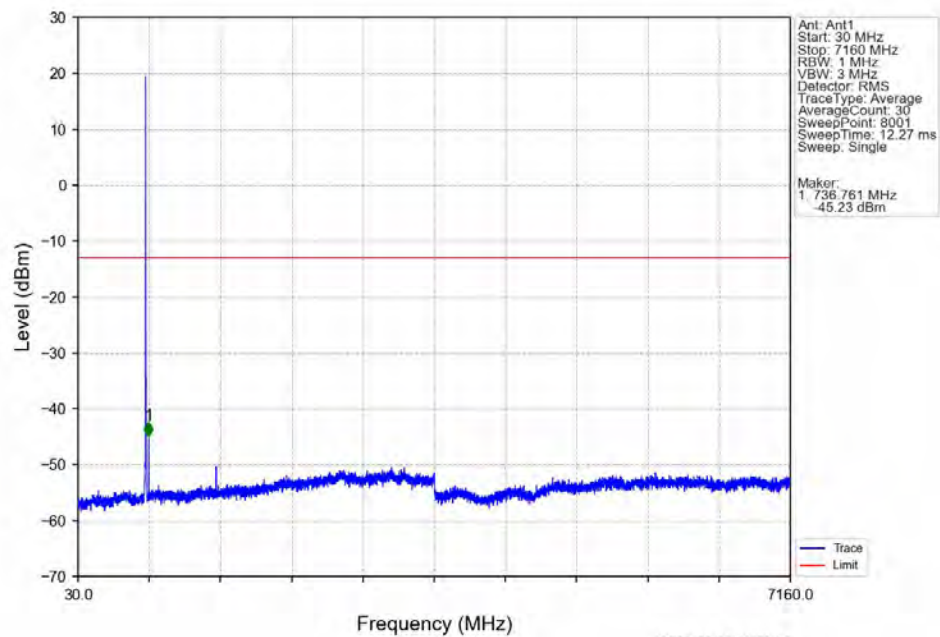


Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV

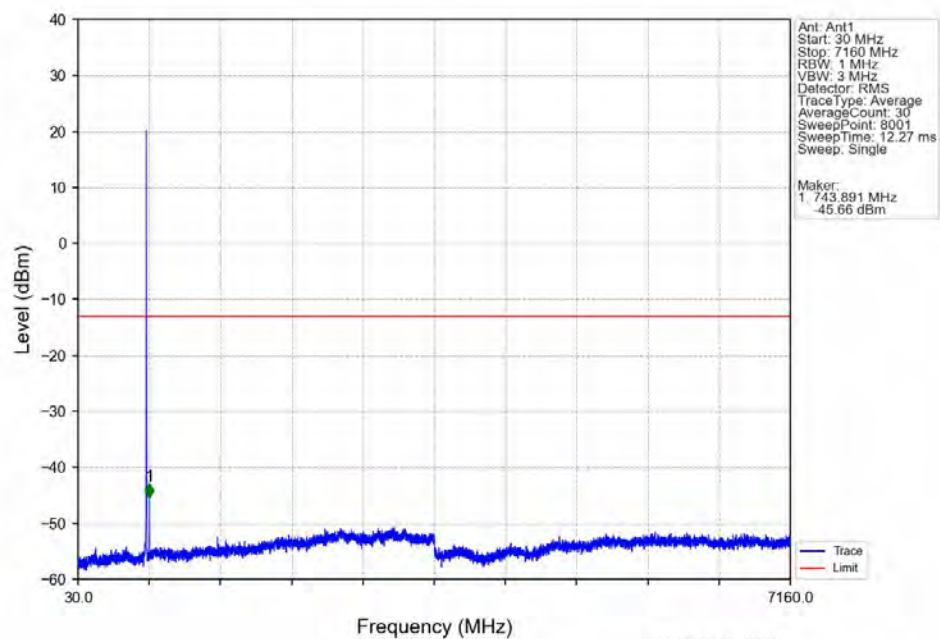


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-34.04	-13	Pass
698.9	699	0.03	/	2	698.994	-26.62	-13	Pass
699	702	0.03	/	/	/	/	/	/

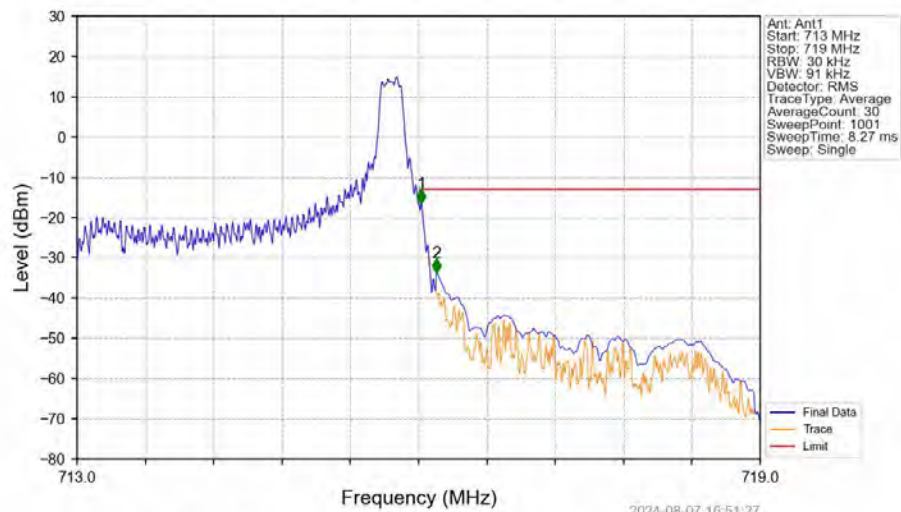
Band12_3MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_0_NTNV

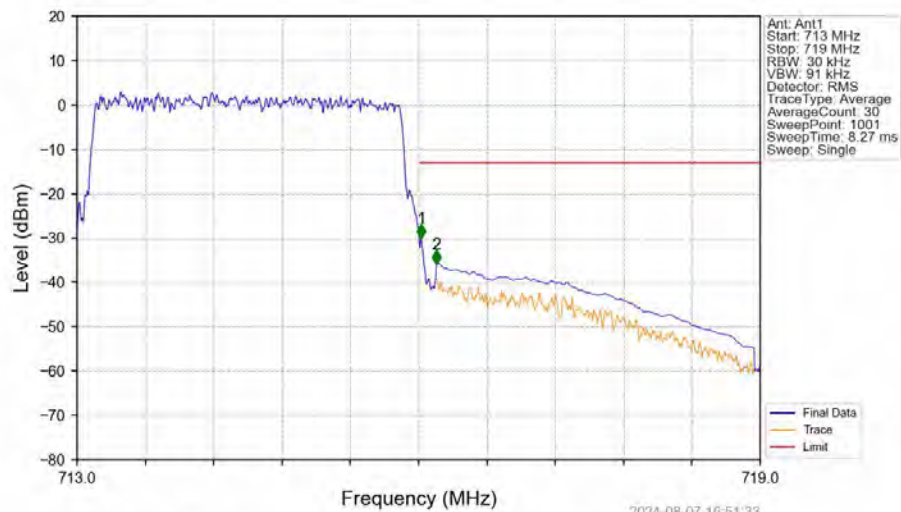


Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_14_NTNV



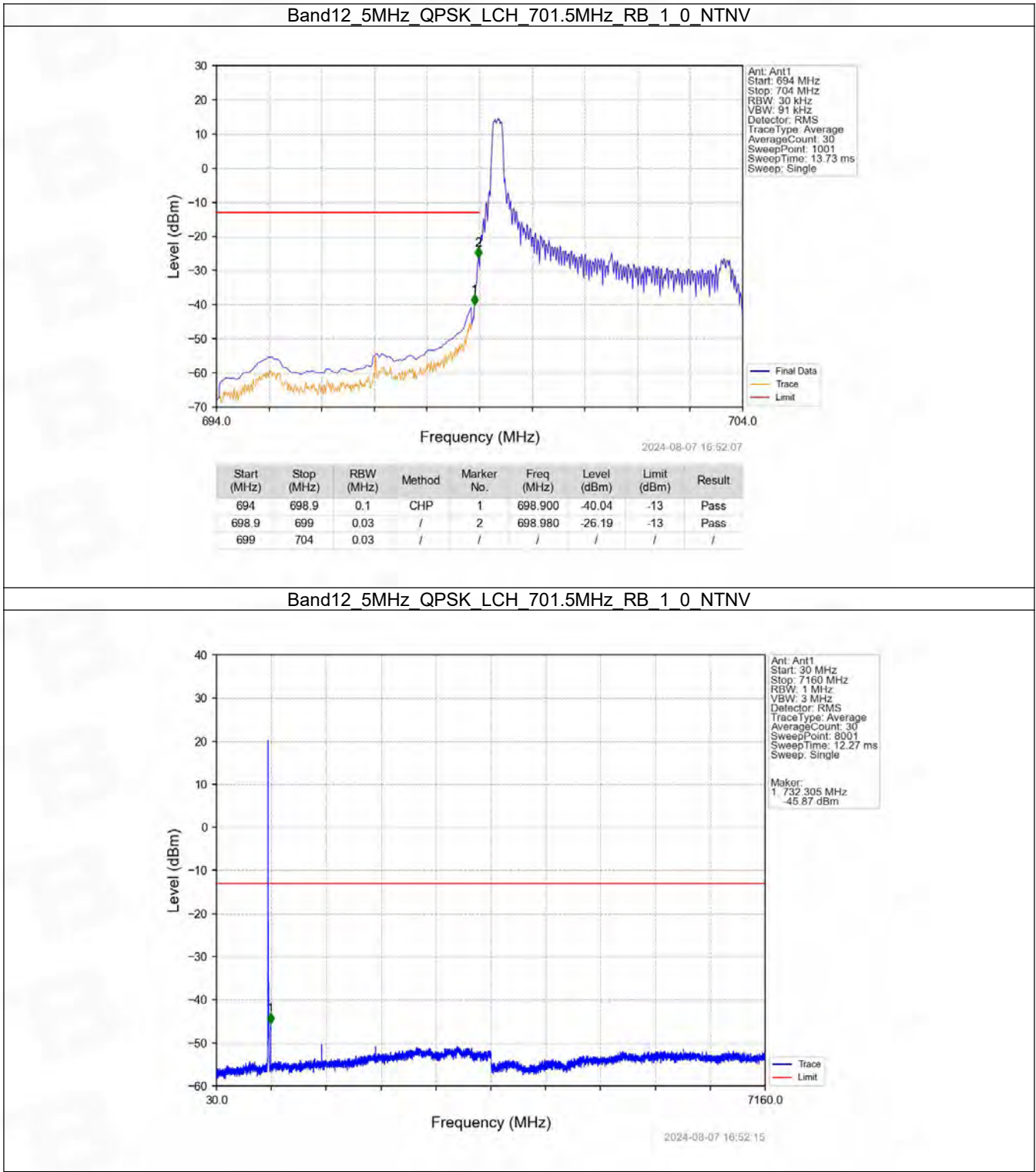
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.024	-16.36	-13	Pass
716.1	719	0.1	CHP	2	716.156	-33.65	-13	Pass

Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV

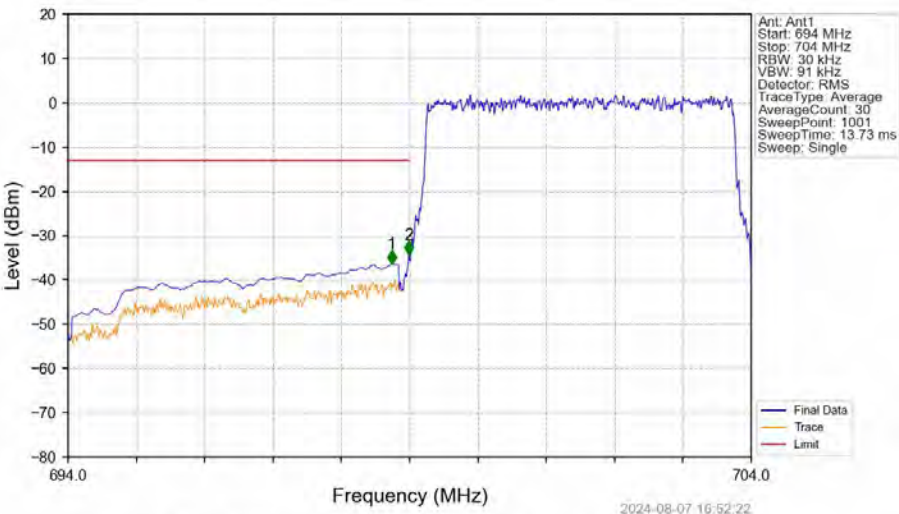


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.024	-30.10	-13	Pass
716.1	719	0.1	CHP	2	716.156	-35.80	-13	Pass

6.2.3 B12_5MHz

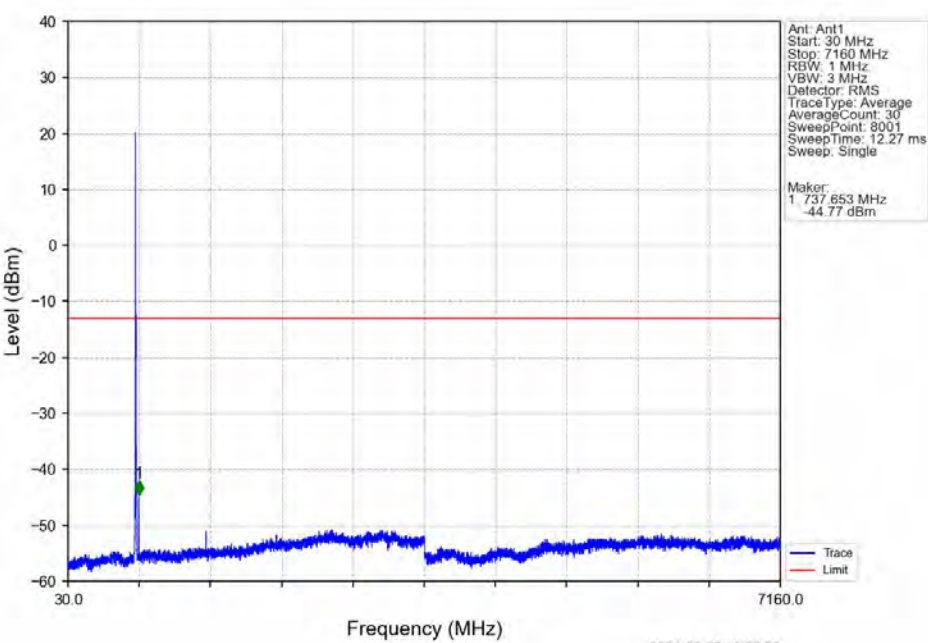


Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV

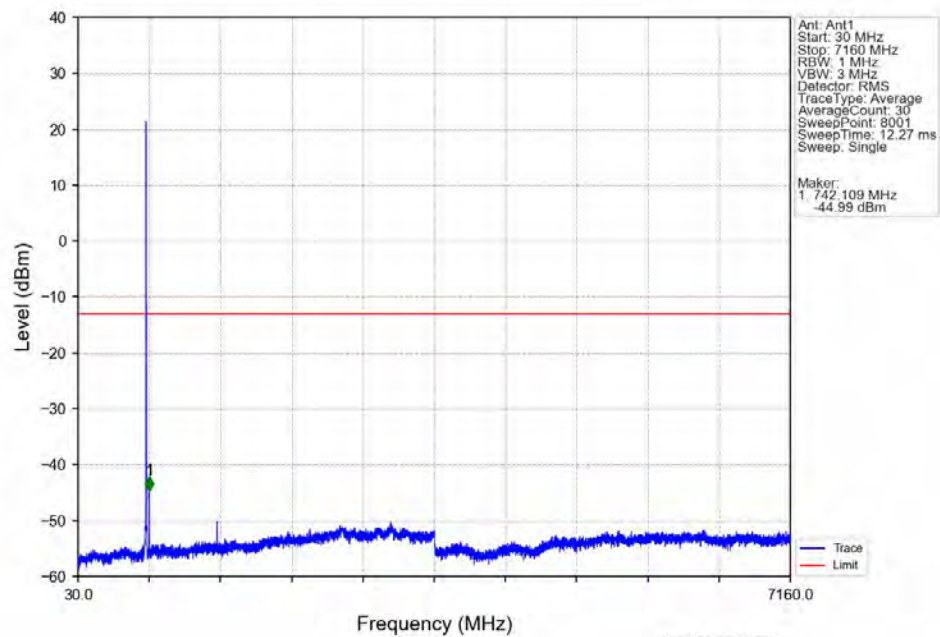


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.740	-36.32	-13	Pass
698.9	699	0.03	/	2	698.990	-34.25	-13	Pass
699	704	0.03	/	/	/	/	/	/

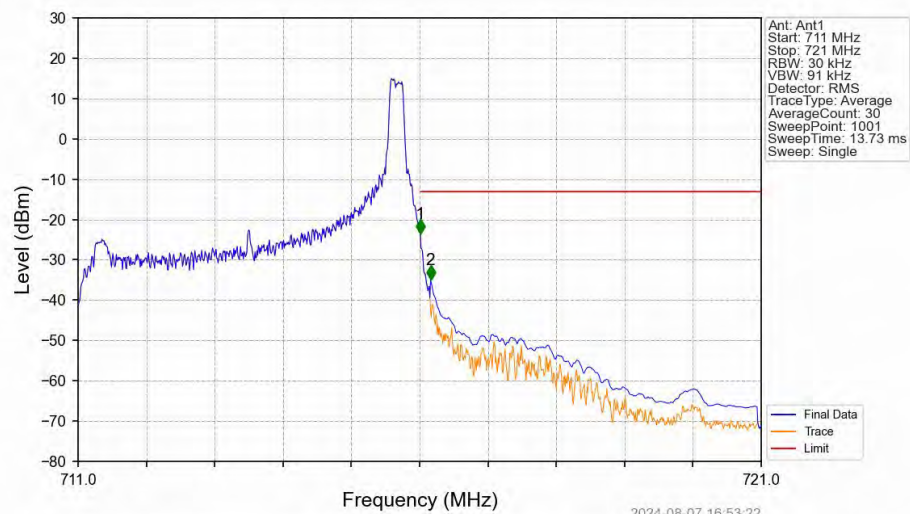
Band12_5MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

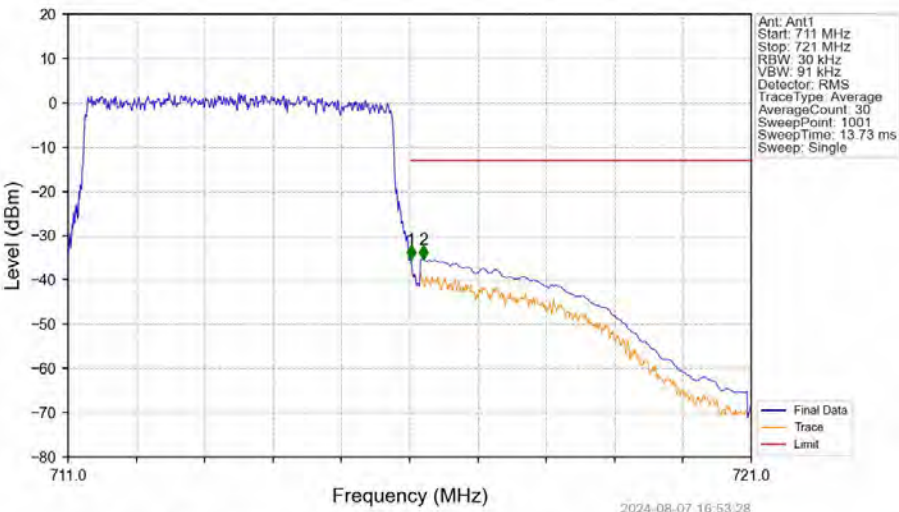


Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



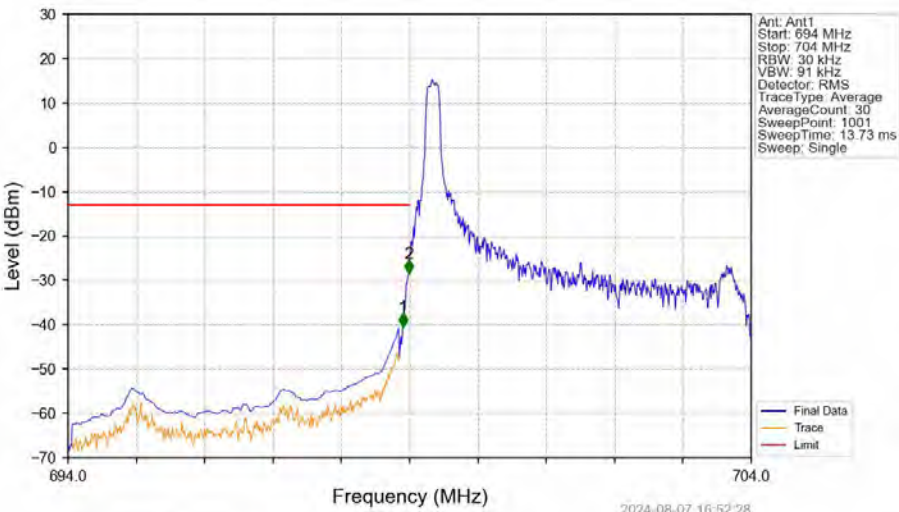
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-23.34	-13	Pass
716.1	721	0.1	CHP	2	716.160	-34.92	-13	Pass

Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



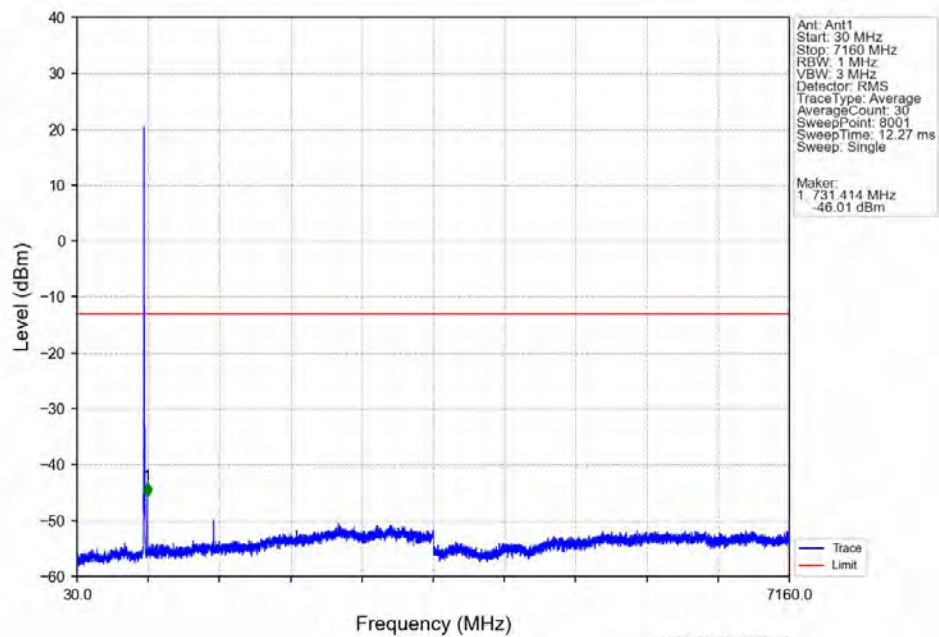
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.020	-35.31	-13	Pass
716.1	721	0.1	CHP	2	716.200	-35.25	-13	Pass

Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV

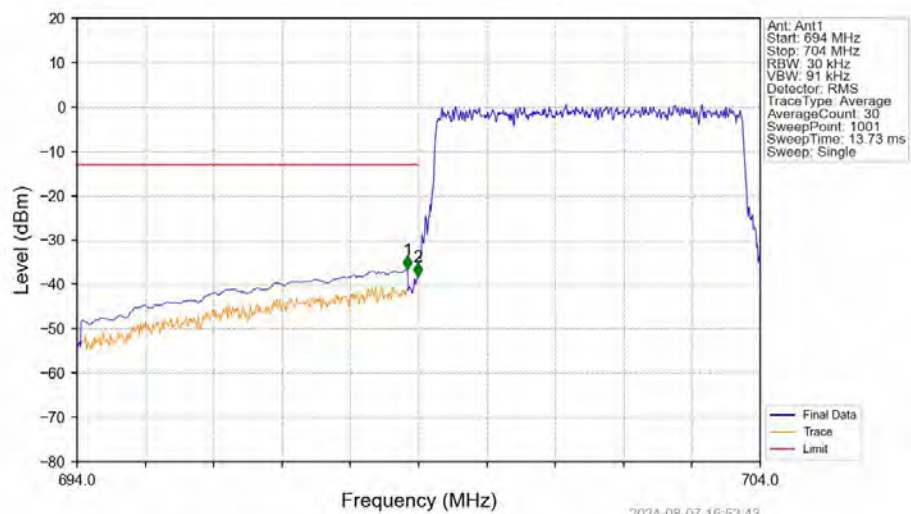


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.900	-40.36	-13	Pass
698.9	699	0.03	/	2	698.990	-28.46	-13	Pass
699	704	0.03	/	/	/	/	/	/

Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV

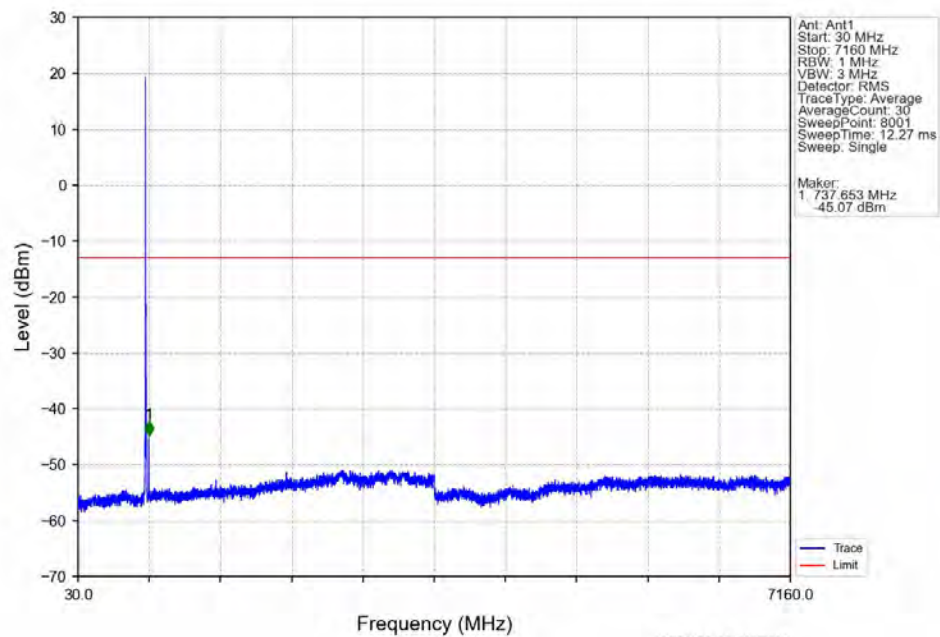


Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV

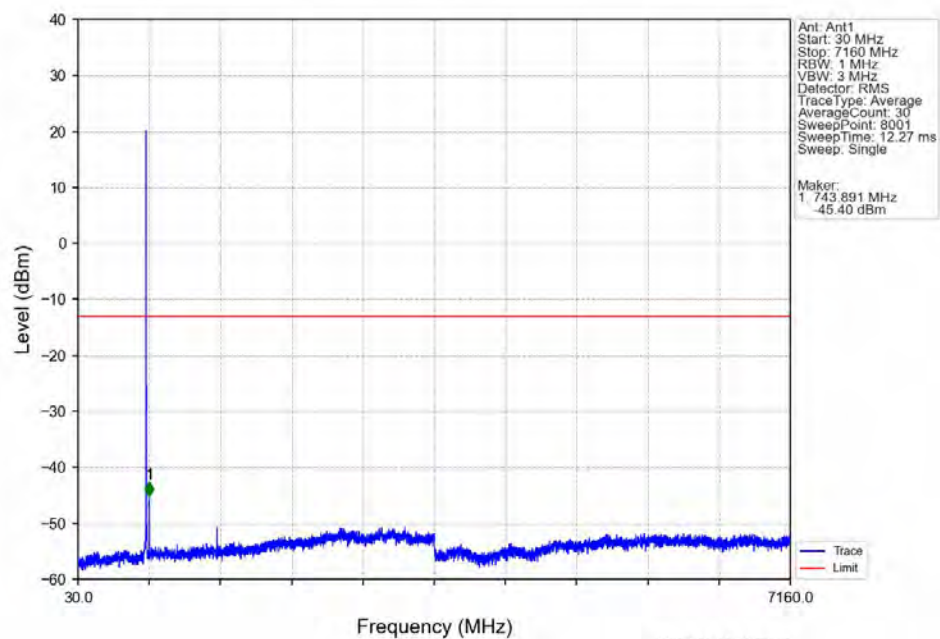


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.840	-36.54	-13	Pass
698.9	699	0.03	/	2	698.990	-38.29	-13	Pass
699	704	0.03	/	/	/	/	/	/

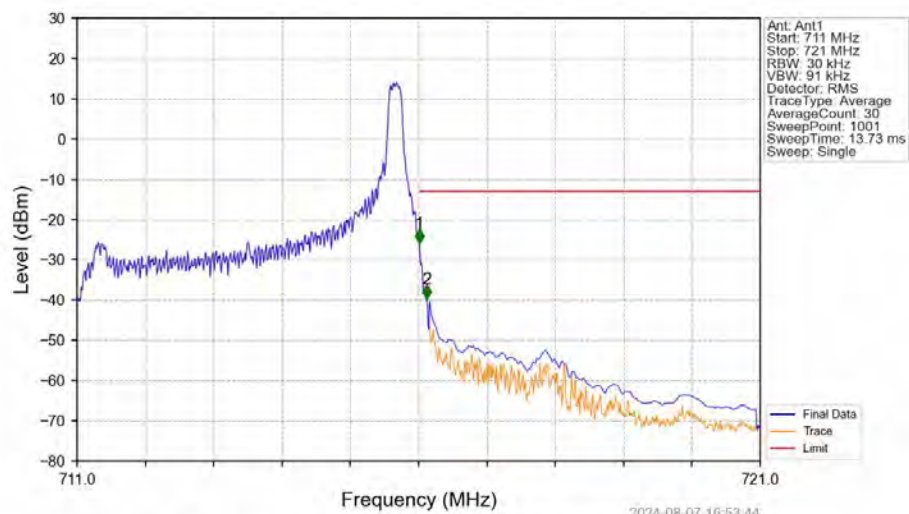
Band12_5MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



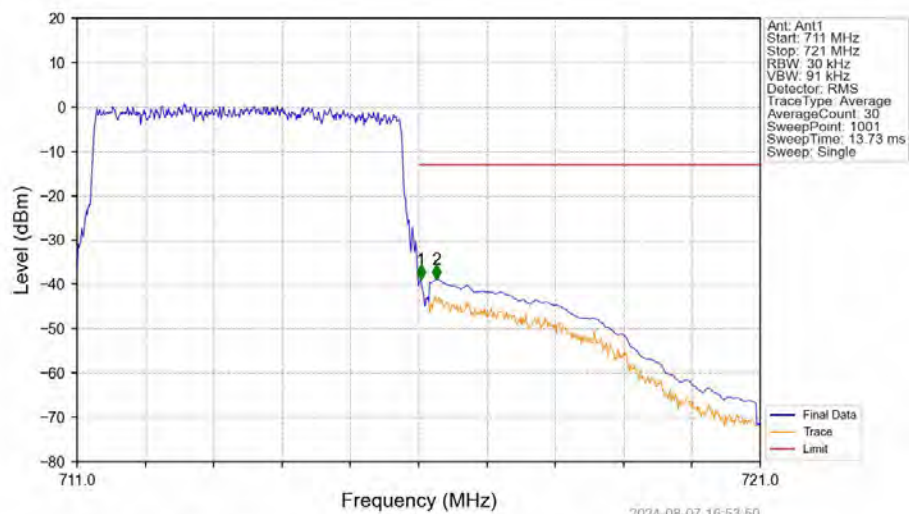
Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_24_NTNV



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	-25.76	-13	Pass
716.1	721	0.1	CHP	2	716.120	-39.73	-13	Pass

2024-08-07 16:53:44

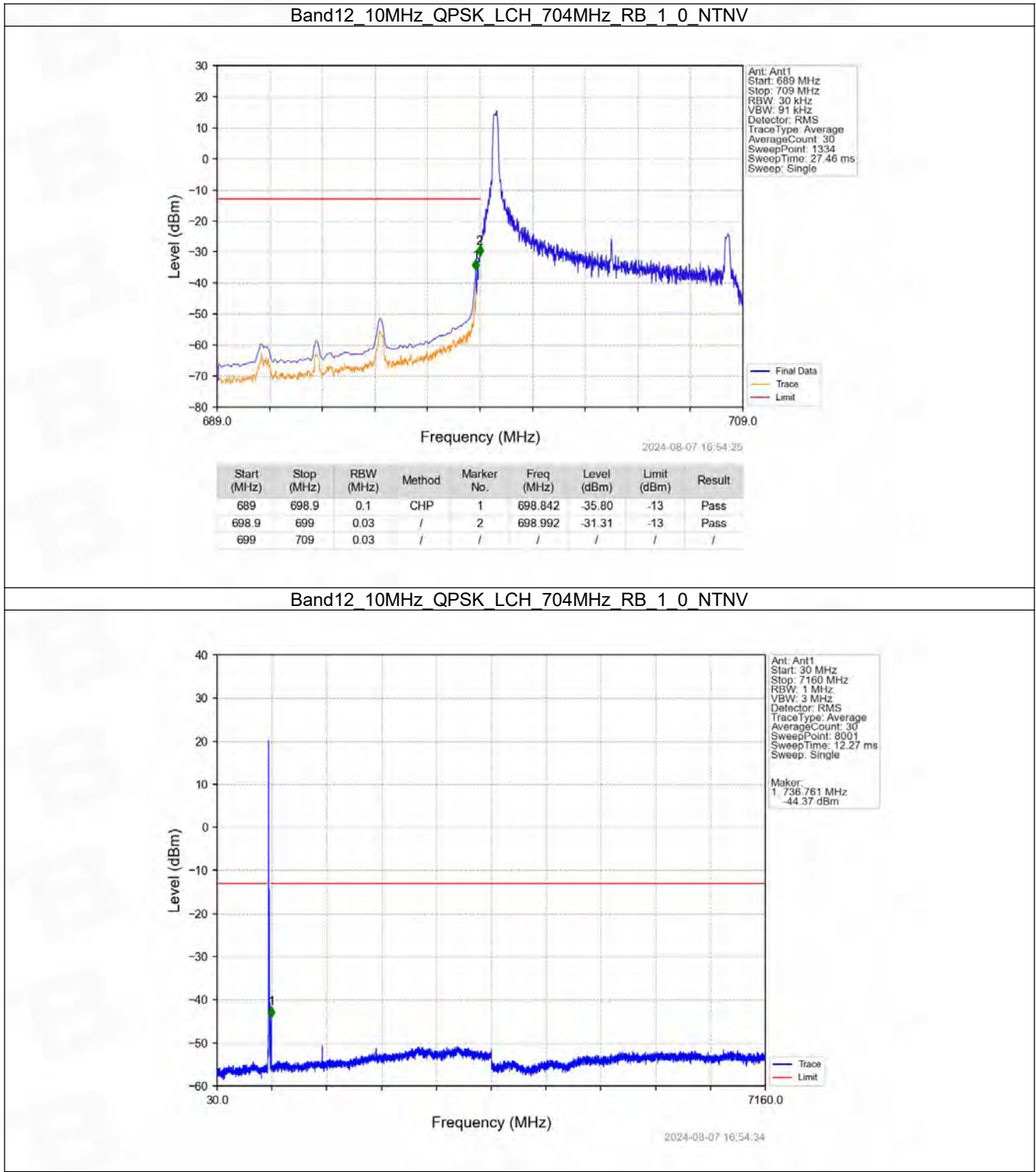
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



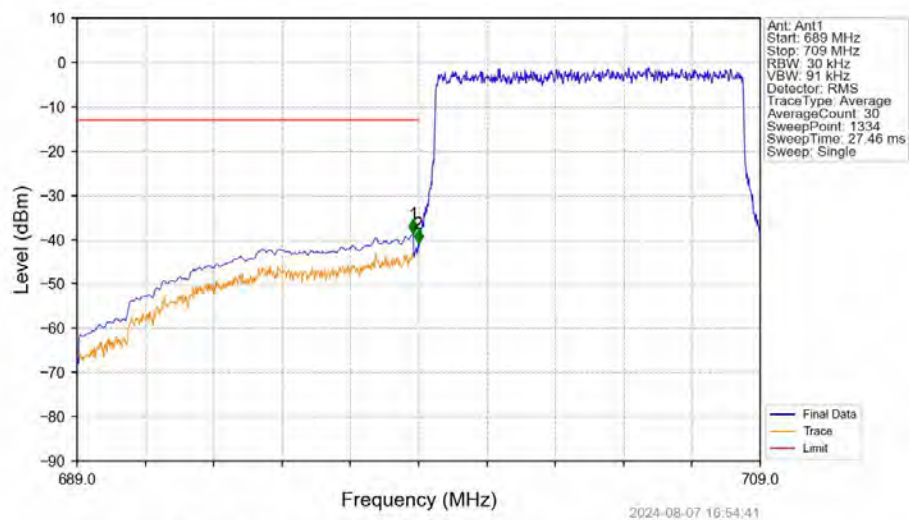
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.030	-38.72	-13	Pass
716.1	721	0.1	CHP	2	716.260	-38.79	-13	Pass

2024-08-07 16:53:50

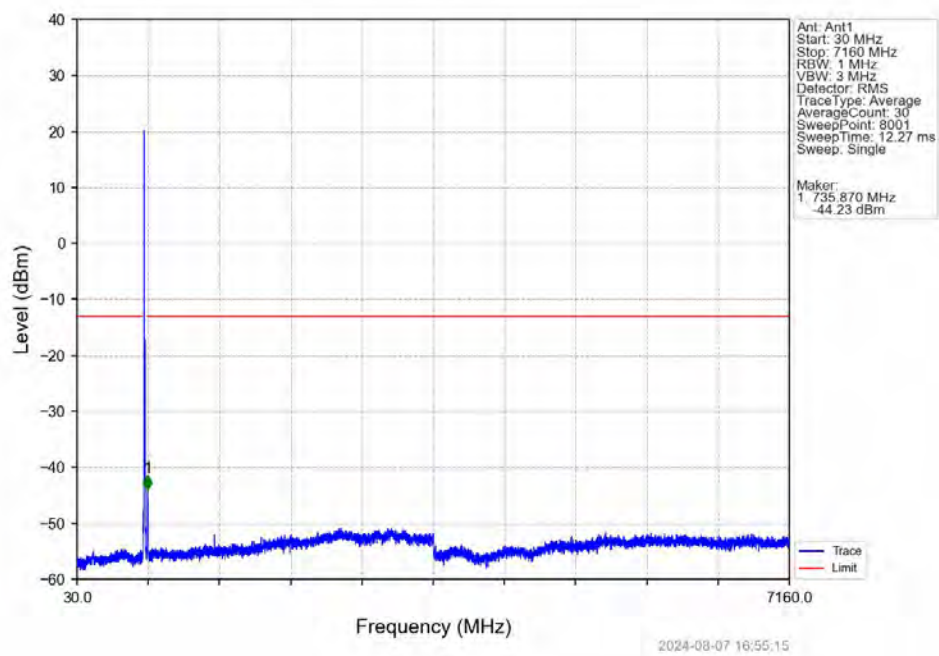
6.2.4 B12_10MHz



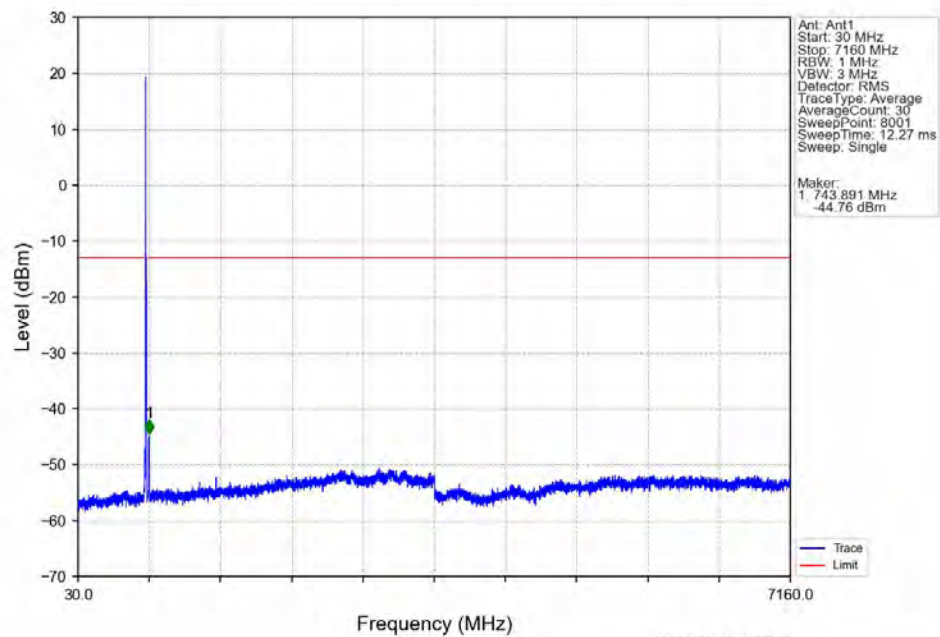
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



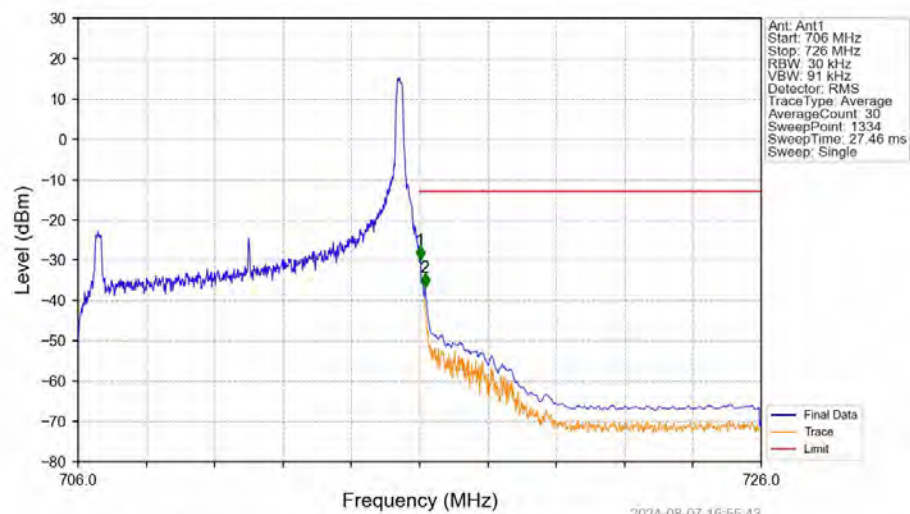
Band12_10MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

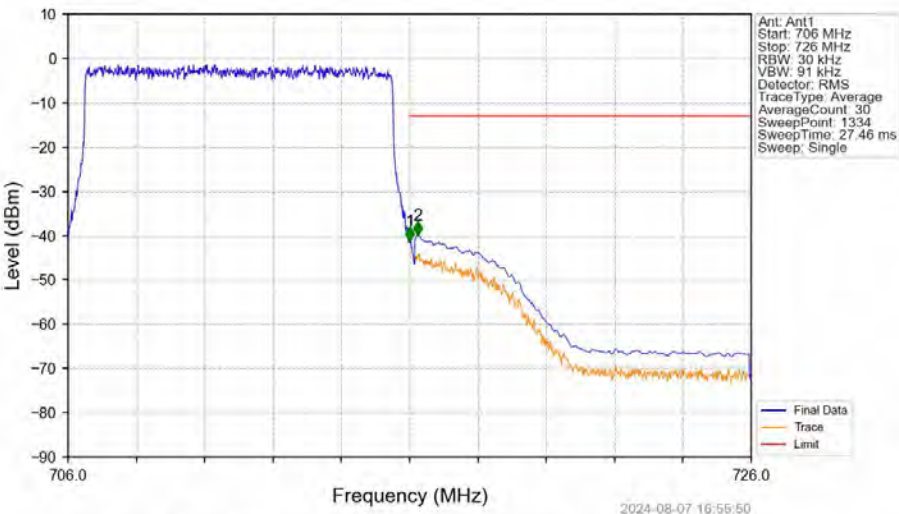


Band12_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



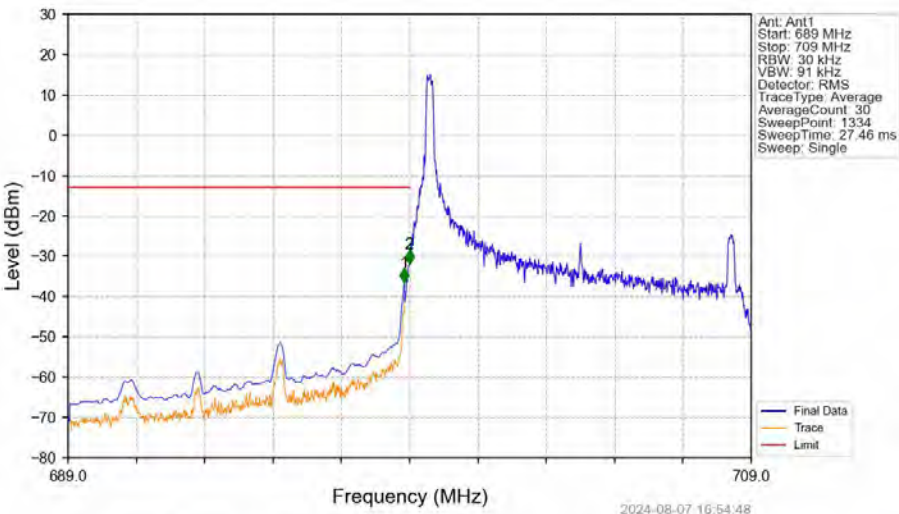
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.023	-29.82	-13	Pass
716.1	726	0.1	CHP	2	716.158	-36.73	-13	Pass

Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



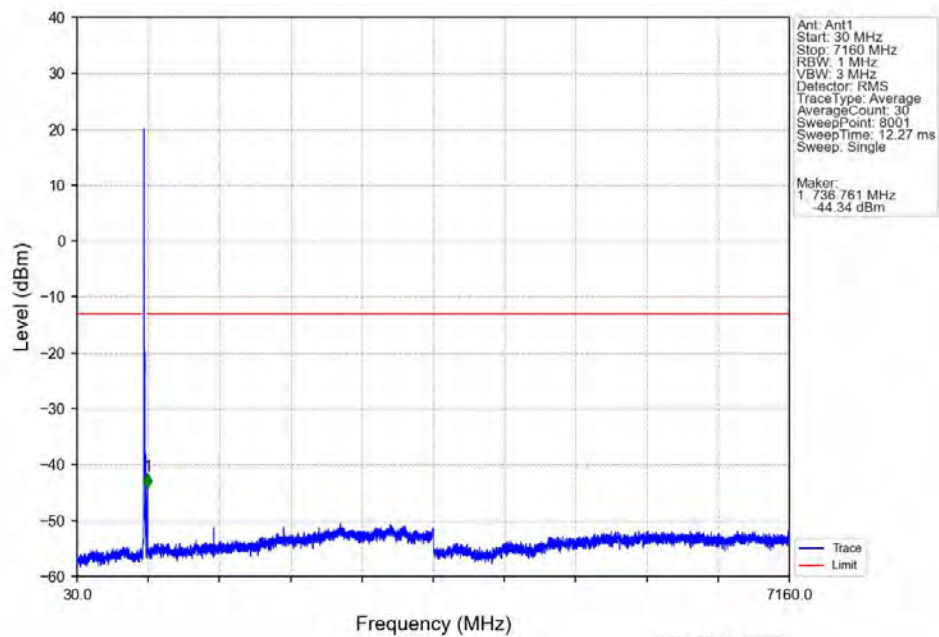
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-41.11	-13	Pass
716.1	726	0.1	CHP	2	716.233	-39.89	-13	Pass

Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV

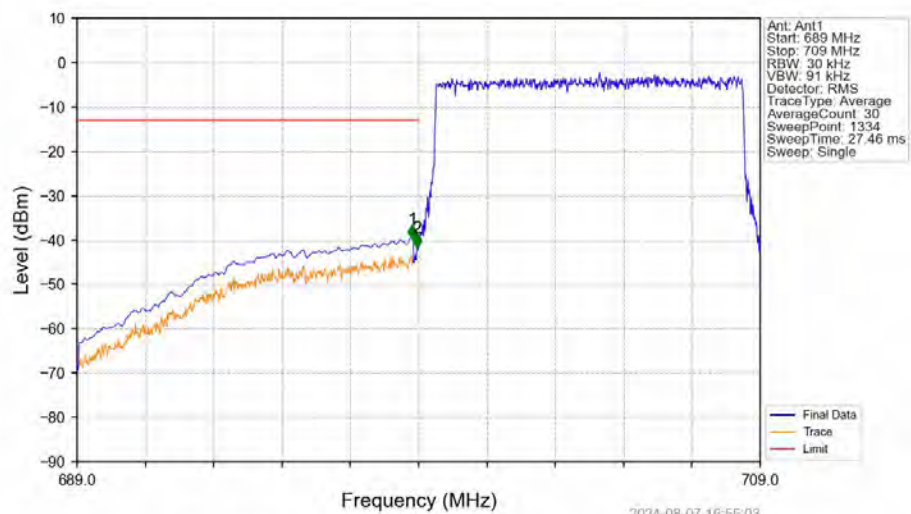


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-36.52	-13	Pass
698.9	699	0.03	/	2	698.992	-31.91	-13	Pass
699	709	0.03	/	/	/	/	/	/

Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV

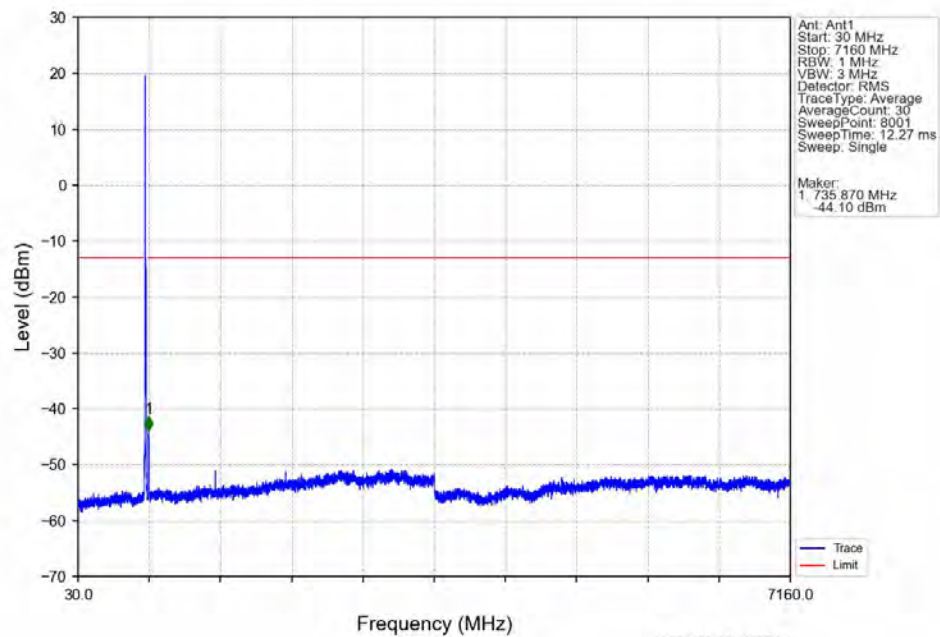


Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV

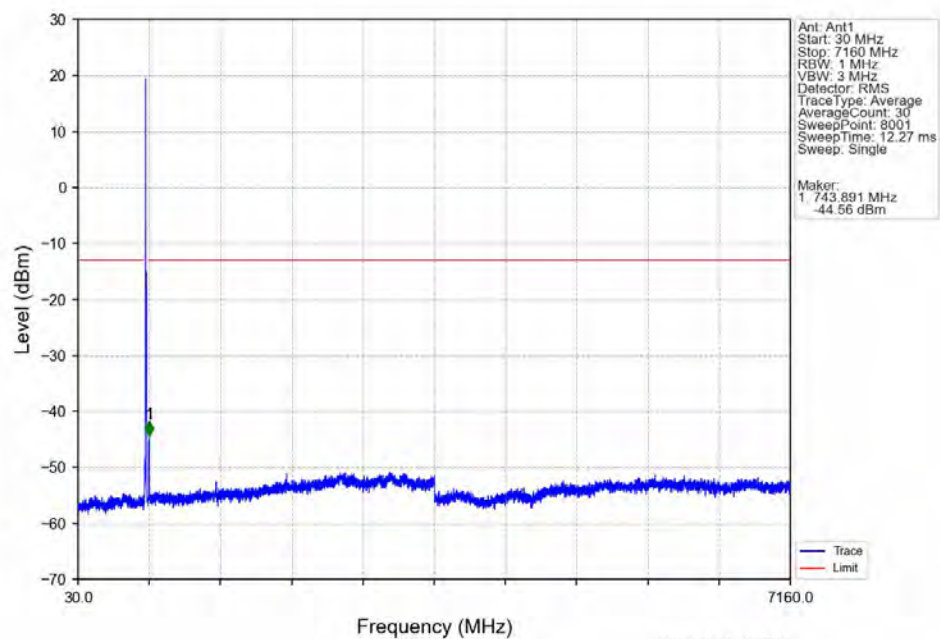


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.812	-39.62	-13	Pass
698.9	699	0.03	/	2	698.962	-41.61	-13	Pass
699	709	0.03	/	/	/	/	/	/

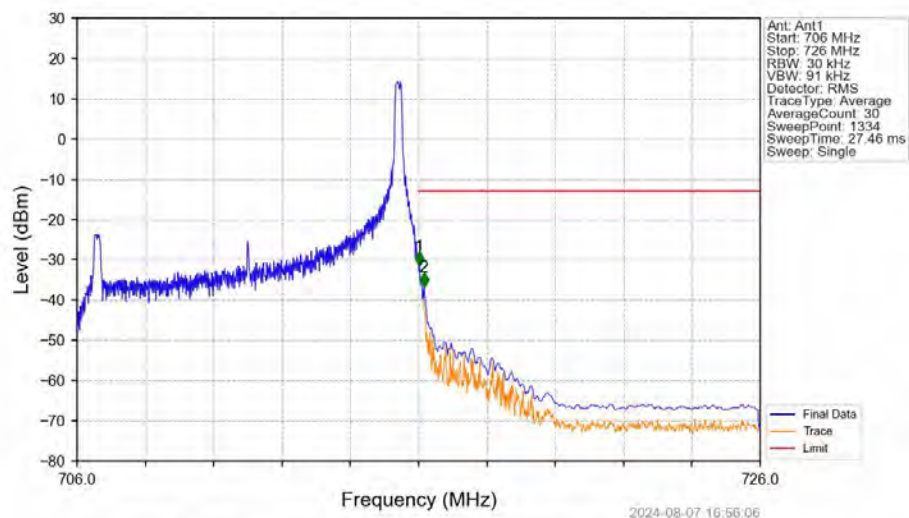
Band12_10MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV

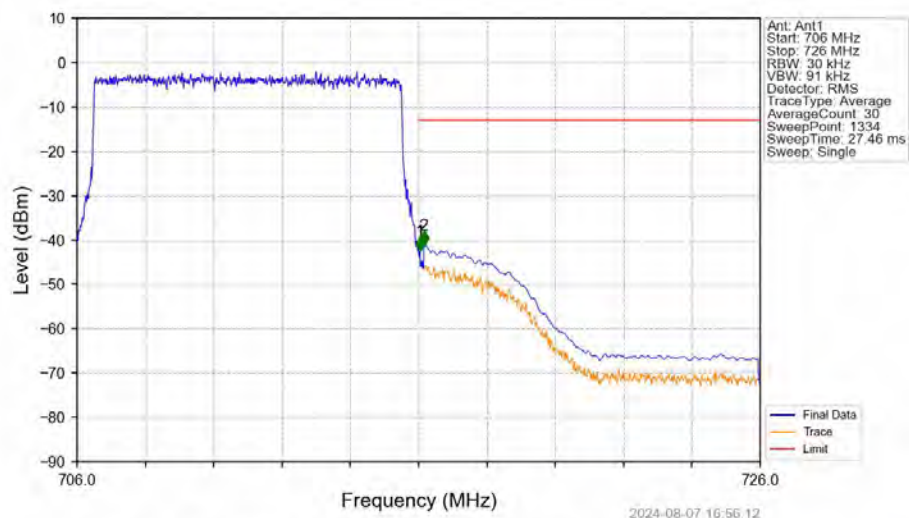


Band12_10MHz_16QAM_HCH_711MHz_RB_1_49_NTNV



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	-31.39	-13	Pass
716.1	726	0.1	CHP	2	716.158	-36.67	-13	Pass

Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_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	716.038	-42.38	-13	Pass
716.1	726	0.1	CHP	2	716.158	-41.11	-13	Pass

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	0.1552	0.0651	ppm	1M11G7D	27H	21.91
12	1.4	699.7	715.3	0.1387	0.0681	ppm	1M12W7D	27H	21.42
12	3	700.5	714.5	0.1563	0.0692	ppm	2M76G7D	27H	21.94
12	3	700.5	714.5	0.1607	0.0624	ppm	2M76W7D	27H	22.06
12	5	701.5	713.5	0.1503	0.0669	ppm	4M55G7D	27H	21.77
12	5	701.5	713.5	0.1340	0.0592	ppm	4M56W7D	27H	21.27
12	10	704	711	0.1549	0.0645	ppm	9M06G7D	27H	21.90
12	10	704	711	0.1449	0.0620	ppm	9M06W7D	27H	21.61

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	0.0555	0.0651	ppm	1M11G7D	27H	17.44
12	1.4	699.7	715.3	0.0495	0.0681	ppm	1M12W7D	27H	16.95
12	3	700.5	714.5	0.0558	0.0692	ppm	2M76G7D	27H	17.47
12	3	700.5	714.5	0.0574	0.0624	ppm	2M76W7D	27H	17.59
12	5	701.5	713.5	0.0537	0.0669	ppm	4M55G7D	27H	17.30
12	5	701.5	713.5	0.0479	0.0592	ppm	4M56W7D	27H	16.80
12	10	704	711	0.0553	0.0645	ppm	9M06G7D	27H	17.43
12	10	704	711	0.0518	0.0620	ppm	9M06W7D	27H	17.14