

1. Effective (Isotropic) Radiated Power Output Data

1.1 B12_1.4MHz_ERP

1.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	699.7	1	0	23.77	-3.6	18.02	<=34.77	Pass
			2	23.88	-3.6	18.13	<=34.77	Pass
			5	23.80	-3.6	18.05	<=34.77	Pass
		3	0	23.71	-3.6	17.96	<=34.77	Pass
			2	23.75	-3.6	18	<=34.77	Pass
			3	23.69	-3.6	17.94	<=34.77	Pass
		6	0	22.74	-3.6	16.99	<=34.77	Pass
	707.5	1	0	23.85	-3.6	18.1	<=34.77	Pass
			2	23.97	-3.6	18.22	<=34.77	Pass
			5	23.87	-3.6	18.12	<=34.77	Pass
		3	0	23.87	-3.6	18.12	<=34.77	Pass
			2	23.91	-3.6	18.16	<=34.77	Pass
			3	23.86	-3.6	18.11	<=34.77	Pass
		6	0	22.95	-3.6	17.2	<=34.77	Pass
	715.3	1	0	23.99	-3.6	18.24	<=34.77	Pass
			2	24.16	-3.6	18.41	<=34.77	Pass
			5	24.06	-3.6	18.31	<=34.77	Pass
		3	0	23.92	-3.6	18.17	<=34.77	Pass
			2	23.93	-3.6	18.18	<=34.77	Pass
			3	23.86	-3.6	18.11	<=34.77	Pass
		6	0	23.09	-3.6	17.34	<=34.77	Pass
16QAM	699.7	1	0	22.61	-3.6	16.86	<=34.77	Pass
			2	22.75	-3.6	17	<=34.77	Pass
			5	22.72	-3.6	16.97	<=34.77	Pass
		3	0	22.71	-3.6	16.96	<=34.77	Pass
			2	22.74	-3.6	16.99	<=34.77	Pass
			3	22.75	-3.6	17	<=34.77	Pass
		6	0	21.61	-3.6	15.86	<=34.77	Pass
	707.5	1	0	22.90	-3.6	17.15	<=34.77	Pass
			2	23.02	-3.6	17.27	<=34.77	Pass
			5	22.90	-3.6	17.15	<=34.77	Pass
		3	0	22.77	-3.6	17.02	<=34.77	Pass
			2	22.79	-3.6	17.04	<=34.77	Pass
			3	22.77	-3.6	17.02	<=34.77	Pass
		6	0	21.84	-3.6	16.09	<=34.77	Pass
	715.3	1	0	22.78	-3.6	17.03	<=34.77	Pass
			2	22.87	-3.6	17.12	<=34.77	Pass
			5	22.76	-3.6	17.01	<=34.77	Pass
		3	0	22.97	-3.6	17.22	<=34.77	Pass
			2	22.99	-3.6	17.24	<=34.77	Pass
			3	22.95	-3.6	17.2	<=34.77	Pass
		6	0	21.90	-3.6	16.15	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.2 B12_3MHz_ERP

1.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTVN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	700.5	1	0	23.09	-3.6	17.34	<=34.77	Pass
			7	23.20	-3.6	17.45	<=34.77	Pass
			14	23.08	-3.6	17.33	<=34.77	Pass
		8	0	22.08	-3.6	16.33	<=34.77	Pass
			4	22.09	-3.6	16.34	<=34.77	Pass
			7	22.05	-3.6	16.3	<=34.77	Pass
		15	0	22.07	-3.6	16.32	<=34.77	Pass
	707.5	1	0	23.12	-3.6	17.37	<=34.77	Pass
			7	23.26	-3.6	17.51	<=34.77	Pass
			14	23.10	-3.6	17.35	<=34.77	Pass
		8	0	22.18	-3.6	16.43	<=34.77	Pass
			4	22.19	-3.6	16.44	<=34.77	Pass
			7	22.13	-3.6	16.38	<=34.77	Pass
		15	0	22.12	-3.6	16.37	<=34.77	Pass
	714.5	1	0	23.08	-3.6	17.33	<=34.77	Pass
			7	23.26	-3.6	17.51	<=34.77	Pass
			14	23.25	-3.6	17.5	<=34.77	Pass
		8	0	22.12	-3.6	16.37	<=34.77	Pass
			4	22.23	-3.6	16.48	<=34.77	Pass
			7	22.26	-3.6	16.51	<=34.77	Pass
		15	0	22.11	-3.6	16.36	<=34.77	Pass
16QAM	700.5	1	0	22.07	-3.6	16.32	<=34.77	Pass
			7	22.22	-3.6	16.47	<=34.77	Pass
			14	22.07	-3.6	16.32	<=34.77	Pass
		8	0	21.11	-3.6	15.36	<=34.77	Pass
			4	21.13	-3.6	15.38	<=34.77	Pass
			7	21.07	-3.6	15.32	<=34.77	Pass
		15	0	21.10	-3.6	15.35	<=34.77	Pass
	707.5	1	0	22.26	-3.6	16.51	<=34.77	Pass
			7	22.39	-3.6	16.64	<=34.77	Pass
			14	22.29	-3.6	16.54	<=34.77	Pass
		8	0	21.10	-3.6	15.35	<=34.77	Pass
			4	21.13	-3.6	15.38	<=34.77	Pass
			7	21.07	-3.6	15.32	<=34.77	Pass
		15	0	21.05	-3.6	15.3	<=34.77	Pass
	714.5	1	0	22.56	-3.6	16.81	<=34.77	Pass
			7	22.63	-3.6	16.88	<=34.77	Pass
			14	22.44	-3.6	16.69	<=34.77	Pass
		8	0	21.21	-3.6	15.46	<=34.77	Pass
			4	21.28	-3.6	15.53	<=34.77	Pass
			7	21.27	-3.6	15.52	<=34.77	Pass
		15	0	21.11	-3.6	15.36	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.3 B12_5MHz_ERP

1.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTN						
Modulation	Frequency	RB Allocation	Conducted Power	Gain	ERP (dBm)	Verdict

	(MHz)	Size	Offset	(dBm)	(dBi)	Result	Limit		
QPSK	701.5	1	0	22.86	-3.6	17.11	<=34.77	Pass	
			13	23.01	-3.6	17.26	<=34.77	Pass	
			24	22.92	-3.6	17.17	<=34.77	Pass	
		12	0	22.00	-3.6	16.25	<=34.77	Pass	
			6	22.05	-3.6	16.3	<=34.77	Pass	
			13	22.03	-3.6	16.28	<=34.77	Pass	
		25	0	21.98	-3.6	16.23	<=34.77	Pass	
		707.5	1	0	22.89	-3.6	17.14	<=34.77	Pass
				13	23.04	-3.6	17.29	<=34.77	Pass
	24			22.94	-3.6	17.19	<=34.77	Pass	
	12		0	22.00	-3.6	16.25	<=34.77	Pass	
			6	22.07	-3.6	16.32	<=34.77	Pass	
			13	21.94	-3.6	16.19	<=34.77	Pass	
	25	0	21.95	-3.6	16.2	<=34.77	Pass		
	713.5	1	0	22.90	-3.6	17.15	<=34.77	Pass	
			13	23.01	-3.6	17.26	<=34.77	Pass	
			24	23.04	-3.6	17.29	<=34.77	Pass	
		12	0	22.05	-3.6	16.3	<=34.77	Pass	
			6	22.07	-3.6	16.32	<=34.77	Pass	
			13	22.17	-3.6	16.42	<=34.77	Pass	
	25	0	22.12	-3.6	16.37	<=34.77	Pass		
16QAM	701.5	1	0	21.95	-3.6	16.2	<=34.77	Pass	
			13	22.09	-3.6	16.34	<=34.77	Pass	
			24	22.00	-3.6	16.25	<=34.77	Pass	
		12	0	20.95	-3.6	15.2	<=34.77	Pass	
			6	20.98	-3.6	15.23	<=34.77	Pass	
			13	20.96	-3.6	15.21	<=34.77	Pass	
	25	0	20.97	-3.6	15.22	<=34.77	Pass		
	707.5	1	0	22.08	-3.6	16.33	<=34.77	Pass	
			13	22.24	-3.6	16.49	<=34.77	Pass	
			24	22.20	-3.6	16.45	<=34.77	Pass	
		12	0	20.98	-3.6	15.23	<=34.77	Pass	
			6	21.06	-3.6	15.31	<=34.77	Pass	
			13	20.92	-3.6	15.17	<=34.77	Pass	
	25	0	20.92	-3.6	15.17	<=34.77	Pass		
	713.5	1	0	21.78	-3.6	16.03	<=34.77	Pass	
			13	21.84	-3.6	16.09	<=34.77	Pass	
			24	21.77	-3.6	16.02	<=34.77	Pass	
		12	0	21.02	-3.6	15.27	<=34.77	Pass	
6			21.03	-3.6	15.28	<=34.77	Pass		
13			21.10	-3.6	15.35	<=34.77	Pass		
25	0	21.14	-3.6	15.39	<=34.77	Pass			
Note1: ERP=Conducted Power+Antenna Gain-2.15									

1.4 B12_10MHz_ERP

1.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	704	1	0	23.72	-3.6	17.97	<=34.77	Pass
			25	23.96	-3.6	18.21	<=34.77	Pass
			49	23.95	-3.6	18.2	<=34.77	Pass
		25	0	23.06	-3.6	17.31	<=34.77	Pass

	707.5	50	13	22.88	-3.6	17.13	<=34.77	Pass
			25	23.09	-3.6	17.34	<=34.77	Pass
			0	23.07	-3.6	17.32	<=34.77	Pass
		1	0	23.71	-3.6	17.96	<=34.77	Pass
			25	24.17	-3.6	18.42	<=34.77	Pass
			49	23.91	-3.6	18.16	<=34.77	Pass
		25	0	22.78	-3.6	17.03	<=34.77	Pass
			13	22.89	-3.6	17.14	<=34.77	Pass
			25	22.94	-3.6	17.19	<=34.77	Pass
	711	50	0	22.90	-3.6	17.15	<=34.77	Pass
			0	23.82	-3.6	18.07	<=34.77	Pass
			25	24.10	-3.6	18.35	<=34.77	Pass
		1	49	24.07	-3.6	18.32	<=34.77	Pass
			0	22.66	-3.6	16.91	<=34.77	Pass
			13	22.88	-3.6	17.13	<=34.77	Pass
		25	25	22.68	-3.6	16.93	<=34.77	Pass
			0	22.72	-3.6	16.97	<=34.77	Pass
			0	22.59	-3.6	16.84	<=34.77	Pass
16QAM	704	1	25	22.97	-3.6	17.22	<=34.77	Pass
			49	22.79	-3.6	17.04	<=34.77	Pass
			0	22.05	-3.6	16.3	<=34.77	Pass
		25	13	21.91	-3.6	16.16	<=34.77	Pass
			25	22.12	-3.6	16.37	<=34.77	Pass
			0	22.04	-3.6	16.29	<=34.77	Pass
	707.5	50	0	22.81	-3.6	17.06	<=34.77	Pass
			0	23.12	-3.6	17.37	<=34.77	Pass
			49	23.00	-3.6	17.25	<=34.77	Pass
		1	0	21.74	-3.6	15.99	<=34.77	Pass
			13	21.87	-3.6	16.12	<=34.77	Pass
			25	21.92	-3.6	16.17	<=34.77	Pass
		25	0	21.85	-3.6	16.1	<=34.77	Pass
			0	23.19	-3.6	17.44	<=34.77	Pass
			25	23.48	-3.6	17.73	<=34.77	Pass
	711	1	49	23.28	-3.6	17.53	<=34.77	Pass
			0	21.63	-3.6	15.88	<=34.77	Pass
			13	21.87	-3.6	16.12	<=34.77	Pass
		25	25	21.68	-3.6	15.93	<=34.77	Pass
			0	21.65	-3.6	15.9	<=34.77	Pass
			0	21.65	-3.6	15.9	<=34.77	Pass
		50	0	21.65	-3.6	15.9	<=34.77	Pass
			0	21.65	-3.6	15.9	<=34.77	Pass
			0	21.65	-3.6	15.9	<=34.77	Pass
		711	0	21.65	-3.6	15.9	<=34.77	Pass
			0	21.65	-3.6	15.9	<=34.77	Pass
			0	21.65	-3.6	15.9	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 B12_1.4MHz

2.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	699.7	6	0	20	3.27	-5.250	-0.0075	-2.5 to 2.5	Pass
					3.85	-7.110	-0.0102	-2.5 to 2.5	Pass
					4.43	-9.327	-0.0133	-2.5 to 2.5	Pass
				-30	3.85	-8.698	-0.0124	-2.5 to 2.5	Pass
				-20	3.85	-6.366	-0.0091	-2.5 to 2.5	Pass
				-10	3.85	-7.467	-0.0107	-2.5 to 2.5	Pass
				0	3.85	-7.925	-0.0113	-2.5 to 2.5	Pass
				0	3.85	-7.925	-0.0113	-2.5 to 2.5	Pass

				10	3.85	-9.899	-0.0141	-2.5 to 2.5	Pass
				30	3.85	-7.210	-0.0103	-2.5 to 2.5	Pass
				40	3.85	-8.426	-0.0120	-2.5 to 2.5	Pass
				50	3.85	-3.891	-0.0056	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	-9.913	-0.0140	-2.5 to 2.5	Pass
					3.85	-5.236	-0.0074	-2.5 to 2.5	Pass
					4.43	-0.572	-0.0008	-2.5 to 2.5	Pass
				-30	3.85	-0.229	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	-0.887	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	-7.625	-0.0108	-2.5 to 2.5	Pass
				0	3.85	-4.420	-0.0062	-2.5 to 2.5	Pass
				10	3.85	-7.396	-0.0105	-2.5 to 2.5	Pass
				30	3.85	-3.076	-0.0043	-2.5 to 2.5	Pass
				40	3.85	-2.246	-0.0032	-2.5 to 2.5	Pass
				50	3.85	-2.575	-0.0036	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	-7.167	-0.0100	-2.5 to 2.5	Pass
					3.85	-4.478	-0.0063	-2.5 to 2.5	Pass
					4.43	-2.031	-0.0028	-2.5 to 2.5	Pass
				-30	3.85	-5.651	-0.0079	-2.5 to 2.5	Pass
				-20	3.85	-5.236	-0.0073	-2.5 to 2.5	Pass
				-10	3.85	-2.217	-0.0031	-2.5 to 2.5	Pass
				0	3.85	-4.835	-0.0068	-2.5 to 2.5	Pass
				10	3.85	-3.977	-0.0056	-2.5 to 2.5	Pass
				30	3.85	-7.067	-0.0099	-2.5 to 2.5	Pass
				40	3.85	-4.320	-0.0060	-2.5 to 2.5	Pass
				50	3.85	-6.680	-0.0093	-2.5 to 2.5	Pass
16QAM	699.7	6	0	20	3.27	-3.333	-0.0048	-2.5 to 2.5	Pass
					3.85	-3.333	-0.0048	-2.5 to 2.5	Pass
					4.43	-7.524	-0.0108	-2.5 to 2.5	Pass
				-30	3.85	-10.157	-0.0145	-2.5 to 2.5	Pass
				-20	3.85	-3.963	-0.0057	-2.5 to 2.5	Pass
				-10	3.85	-3.862	-0.0055	-2.5 to 2.5	Pass
				0	3.85	-4.563	-0.0065	-2.5 to 2.5	Pass
				10	3.85	-7.653	-0.0109	-2.5 to 2.5	Pass
				30	3.85	-7.854	-0.0112	-2.5 to 2.5	Pass
				40	3.85	-10.486	-0.0150	-2.5 to 2.5	Pass
				50	3.85	-7.424	-0.0106	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	0.186	0.0003	-2.5 to 2.5	Pass
					3.85	-6.652	-0.0094	-2.5 to 2.5	Pass
					4.43	-9.956	-0.0141	-2.5 to 2.5	Pass
				-30	3.85	-10.357	-0.0146	-2.5 to 2.5	Pass
				-20	3.85	-9.227	-0.0130	-2.5 to 2.5	Pass
				-10	3.85	-4.306	-0.0061	-2.5 to 2.5	Pass
				0	3.85	-8.368	-0.0118	-2.5 to 2.5	Pass
				10	3.85	-6.881	-0.0097	-2.5 to 2.5	Pass
				30	3.85	-3.791	-0.0054	-2.5 to 2.5	Pass
				40	3.85	-6.924	-0.0098	-2.5 to 2.5	Pass
				50	3.85	-6.881	-0.0097	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	-4.320	-0.0060	-2.5 to 2.5	Pass
					3.85	-4.292	-0.0060	-2.5 to 2.5	Pass
					4.43	-7.854	-0.0110	-2.5 to 2.5	Pass
				-30	3.85	-3.862	-0.0054	-2.5 to 2.5	Pass
				-20	3.85	-3.719	-0.0052	-2.5 to 2.5	Pass
				-10	3.85	-1.116	-0.0016	-2.5 to 2.5	Pass
				0	3.85	-0.501	-0.0007	-2.5 to 2.5	Pass
				10	3.85	-6.166	-0.0086	-2.5 to 2.5	Pass
				30	3.85	-10.085	-0.0141	-2.5 to 2.5	Pass
				40	3.85	-2.375	-0.0033	-2.5 to 2.5	Pass
				50	3.85	-6.723	-0.0094	-2.5 to 2.5	Pass

2.2 B12_3MHz

2.2.1 Test Result

Band: 12 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	700.5	15	0	20	3.27	-6.294	-0.0090	-2.5 to 2.5	Pass
					3.85	-9.813	-0.0140	-2.5 to 2.5	Pass
					4.43	-8.955	-0.0128	-2.5 to 2.5	Pass
				-30	3.85	-9.084	-0.0130	-2.5 to 2.5	Pass
				-20	3.85	-6.723	-0.0096	-2.5 to 2.5	Pass
				-10	3.85	-9.127	-0.0130	-2.5 to 2.5	Pass
				0	3.85	-9.384	-0.0134	-2.5 to 2.5	Pass
				10	3.85	-9.742	-0.0139	-2.5 to 2.5	Pass
				30	3.85	-4.792	-0.0068	-2.5 to 2.5	Pass
				40	3.85	-4.463	-0.0064	-2.5 to 2.5	Pass
				50	3.85	-5.322	-0.0076	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	-10.457	-0.0148	-2.5 to 2.5	Pass
					3.85	-5.336	-0.0075	-2.5 to 2.5	Pass
					4.43	-1.931	-0.0027	-2.5 to 2.5	Pass
				-30	3.85	-1.574	-0.0022	-2.5 to 2.5	Pass
				-20	3.85	-1.059	-0.0015	-2.5 to 2.5	Pass
				-10	3.85	-1.345	-0.0019	-2.5 to 2.5	Pass
				0	3.85	-7.238	-0.0102	-2.5 to 2.5	Pass
				10	3.85	-4.048	-0.0057	-2.5 to 2.5	Pass
				30	3.85	-8.497	-0.0120	-2.5 to 2.5	Pass
				40	3.85	-7.954	-0.0112	-2.5 to 2.5	Pass
				50	3.85	-5.450	-0.0077	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-5.665	-0.0079	-2.5 to 2.5	Pass
					3.85	-5.264	-0.0074	-2.5 to 2.5	Pass
					4.43	-0.615	-0.0009	-2.5 to 2.5	Pass
				-30	3.85	-3.090	-0.0043	-2.5 to 2.5	Pass
				-20	3.85	-6.952	-0.0097	-2.5 to 2.5	Pass
				-10	3.85	-6.781	-0.0095	-2.5 to 2.5	Pass
				0	3.85	-3.247	-0.0045	-2.5 to 2.5	Pass
				10	3.85	-5.879	-0.0082	-2.5 to 2.5	Pass
				30	3.85	-3.219	-0.0045	-2.5 to 2.5	Pass
				40	3.85	-3.147	-0.0044	-2.5 to 2.5	Pass
16QAM	700.5	15	0	20	3.27	-0.744	-0.0011	-2.5 to 2.5	Pass
					3.85	-0.172	-0.0002	-2.5 to 2.5	Pass
					4.43	-0.272	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	-0.815	-0.0012	-2.5 to 2.5	Pass
				-20	3.85	-4.420	-0.0063	-2.5 to 2.5	Pass
				-10	3.85	-1.817	-0.0026	-2.5 to 2.5	Pass
				0	3.85	-5.264	-0.0075	-2.5 to 2.5	Pass
				10	3.85	-5.350	-0.0076	-2.5 to 2.5	Pass
				30	3.85	-7.725	-0.0110	-2.5 to 2.5	Pass
				40	3.85	-11.816	-0.0169	-2.5 to 2.5	Pass
				50	3.85	-11.544	-0.0165	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	-6.137	-0.0087	-2.5 to 2.5	Pass
					3.85	-2.017	-0.0029	-2.5 to 2.5	Pass
					4.43	-4.950	-0.0070	-2.5 to 2.5	Pass
				-30	3.85	-0.300	-0.0004	-2.5 to 2.5	Pass
				-20	3.85	0.014	0.0000	-2.5 to 2.5	Pass

				-10	3.85	-0.243	-0.0003	-2.5 to 2.5	Pass
				0	3.85	-4.549	-0.0064	-2.5 to 2.5	Pass
				10	3.85	-3.333	-0.0047	-2.5 to 2.5	Pass
				30	3.85	-3.591	-0.0051	-2.5 to 2.5	Pass
				40	3.85	-2.117	-0.0030	-2.5 to 2.5	Pass
				50	3.85	-3.791	-0.0054	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-3.290	-0.0046	-2.5 to 2.5	Pass
					3.85	-4.592	-0.0064	-2.5 to 2.5	Pass
					4.43	-5.364	-0.0075	-2.5 to 2.5	Pass
				-30	3.85	-9.356	-0.0131	-2.5 to 2.5	Pass
				-20	3.85	-1.888	-0.0026	-2.5 to 2.5	Pass
				-10	3.85	-4.964	-0.0069	-2.5 to 2.5	Pass
				0	3.85	-2.346	-0.0033	-2.5 to 2.5	Pass
				10	3.85	-2.661	-0.0037	-2.5 to 2.5	Pass
				30	3.85	-3.433	-0.0048	-2.5 to 2.5	Pass
				40	3.85	-7.339	-0.0103	-2.5 to 2.5	Pass
				50	3.85	-6.924	-0.0097	-2.5 to 2.5	Pass

2.3 B12_5MHz

2.3.1 Test Result

Band: 12 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	701.5	25	0	20	3.27	-2.117	-0.0030	-2.5 to 2.5	Pass
					3.85	-1.945	-0.0028	-2.5 to 2.5	Pass
					4.43	-3.991	-0.0057	-2.5 to 2.5	Pass
				-30	3.85	-2.847	-0.0041	-2.5 to 2.5	Pass
				-20	3.85	-4.377	-0.0062	-2.5 to 2.5	Pass
				-10	3.85	-1.273	-0.0018	-2.5 to 2.5	Pass
				0	3.85	-4.263	-0.0061	-2.5 to 2.5	Pass
				10	3.85	-8.054	-0.0115	-2.5 to 2.5	Pass
				30	3.85	-8.411	-0.0120	-2.5 to 2.5	Pass
				40	3.85	-7.610	-0.0108	-2.5 to 2.5	Pass
				50	3.85	-4.406	-0.0063	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-6.194	-0.0088	-2.5 to 2.5	Pass
					3.85	-4.864	-0.0069	-2.5 to 2.5	Pass
					4.43	-4.263	-0.0060	-2.5 to 2.5	Pass
				-30	3.85	-6.108	-0.0086	-2.5 to 2.5	Pass
				-20	3.85	-6.824	-0.0096	-2.5 to 2.5	Pass
				-10	3.85	-2.947	-0.0042	-2.5 to 2.5	Pass
				0	3.85	-2.589	-0.0037	-2.5 to 2.5	Pass
				10	3.85	-1.402	-0.0020	-2.5 to 2.5	Pass
				30	3.85	-2.561	-0.0036	-2.5 to 2.5	Pass
				40	3.85	-2.589	-0.0037	-2.5 to 2.5	Pass
				50	3.85	1.187	0.0017	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-6.237	-0.0087	-2.5 to 2.5	Pass
					3.85	-5.751	-0.0081	-2.5 to 2.5	Pass
					4.43	-5.765	-0.0081	-2.5 to 2.5	Pass
				-30	3.85	-1.874	-0.0026	-2.5 to 2.5	Pass
				-20	3.85	-1.988	-0.0028	-2.5 to 2.5	Pass
				-10	3.85	-7.825	-0.0110	-2.5 to 2.5	Pass
				0	3.85	-7.510	-0.0105	-2.5 to 2.5	Pass
				10	3.85	-6.552	-0.0092	-2.5 to 2.5	Pass
				30	3.85	-2.861	-0.0040	-2.5 to 2.5	Pass
				40	3.85	-8.497	-0.0119	-2.5 to 2.5	Pass

16QAM	701.5	25	0	50	3.85	-7.496	-0.0105	-2.5 to 2.5	Pass
				20	3.27	-3.791	-0.0054	-2.5 to 2.5	Pass
					3.85	-2.832	-0.0040	-2.5 to 2.5	Pass
					4.43	-9.255	-0.0132	-2.5 to 2.5	Pass
				-30	3.85	-9.370	-0.0134	-2.5 to 2.5	Pass
				-20	3.85	-9.069	-0.0129	-2.5 to 2.5	Pass
				-10	3.85	-6.623	-0.0094	-2.5 to 2.5	Pass
				0	3.85	-5.407	-0.0077	-2.5 to 2.5	Pass
				10	3.85	-5.121	-0.0073	-2.5 to 2.5	Pass
				30	3.85	-4.721	-0.0067	-2.5 to 2.5	Pass
	707.5	25	0	40	3.85	-4.764	-0.0068	-2.5 to 2.5	Pass
				50	3.85	-5.593	-0.0080	-2.5 to 2.5	Pass
				20	3.27	-7.982	-0.0113	-2.5 to 2.5	Pass
					3.85	-8.411	-0.0119	-2.5 to 2.5	Pass
					4.43	-9.799	-0.0139	-2.5 to 2.5	Pass
				-30	3.85	-8.097	-0.0114	-2.5 to 2.5	Pass
				-20	3.85	-8.311	-0.0117	-2.5 to 2.5	Pass
				-10	3.85	-8.540	-0.0121	-2.5 to 2.5	Pass
				0	3.85	-7.510	-0.0106	-2.5 to 2.5	Pass
				10	3.85	-7.024	-0.0099	-2.5 to 2.5	Pass
	713.5	25	0	30	3.85	-9.785	-0.0138	-2.5 to 2.5	Pass
				40	3.85	-10.157	-0.0144	-2.5 to 2.5	Pass
				50	3.85	-9.270	-0.0131	-2.5 to 2.5	Pass
				20	3.27	-4.992	-0.0070	-2.5 to 2.5	Pass
					3.85	-2.503	-0.0035	-2.5 to 2.5	Pass
					4.43	-3.419	-0.0048	-2.5 to 2.5	Pass
				-30	3.85	-3.104	-0.0044	-2.5 to 2.5	Pass
				-20	3.85	-13.103	-0.0184	-2.5 to 2.5	Pass
				-10	3.85	-6.838	-0.0096	-2.5 to 2.5	Pass
				0	3.85	-9.670	-0.0136	-2.5 to 2.5	Pass
				10	3.85	-9.627	-0.0135	-2.5 to 2.5	Pass
				30	3.85	-10.471	-0.0147	-2.5 to 2.5	Pass
				40	3.85	-11.172	-0.0157	-2.5 to 2.5	Pass
				50	3.85	-8.197	-0.0115	-2.5 to 2.5	Pass

2.4 B12_10MHz

2.4.1 Test Result

Band: 12 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	704	50	0	20	3.27	-8.440	-0.0120	-2.5 to 2.5	Pass
					3.85	-6.623	-0.0094	-2.5 to 2.5	Pass
					4.43	-6.638	-0.0094	-2.5 to 2.5	Pass
				-30	3.85	-4.621	-0.0066	-2.5 to 2.5	Pass
				-20	3.85	-2.446	-0.0035	-2.5 to 2.5	Pass
				-10	3.85	-3.018	-0.0043	-2.5 to 2.5	Pass
				0	3.85	-8.097	-0.0115	-2.5 to 2.5	Pass
				10	3.85	-5.908	-0.0084	-2.5 to 2.5	Pass
				30	3.85	-2.418	-0.0034	-2.5 to 2.5	Pass
				40	3.85	-6.552	-0.0093	-2.5 to 2.5	Pass
				50	3.85	-7.982	-0.0113	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-8.440	-0.0119	-2.5 to 2.5	Pass
					3.85	-9.456	-0.0134	-2.5 to 2.5	Pass
					4.43	-9.527	-0.0135	-2.5 to 2.5	Pass
				-30	3.85	-6.838	-0.0097	-2.5 to 2.5	Pass

				-20	3.85	-7.324	-0.0104	-2.5 to 2.5	Pass
				-10	3.85	-7.024	-0.0099	-2.5 to 2.5	Pass
				0	3.85	-8.254	-0.0117	-2.5 to 2.5	Pass
				10	3.85	-4.992	-0.0071	-2.5 to 2.5	Pass
				30	3.85	-4.549	-0.0064	-2.5 to 2.5	Pass
				40	3.85	-5.865	-0.0083	-2.5 to 2.5	Pass
				50	3.85	-4.778	-0.0068	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-6.437	-0.0091	-2.5 to 2.5	Pass
					3.85	-6.437	-0.0091	-2.5 to 2.5	Pass
					4.43	-3.119	-0.0044	-2.5 to 2.5	Pass
				-30	3.85	-2.689	-0.0038	-2.5 to 2.5	Pass
				-20	3.85	-3.662	-0.0052	-2.5 to 2.5	Pass
				-10	3.85	-2.704	-0.0038	-2.5 to 2.5	Pass
				0	3.85	-2.732	-0.0038	-2.5 to 2.5	Pass
				10	3.85	-3.905	-0.0055	-2.5 to 2.5	Pass
				30	3.85	-1.545	-0.0022	-2.5 to 2.5	Pass
				40	3.85	-1.574	-0.0022	-2.5 to 2.5	Pass
				50	3.85	-6.752	-0.0095	-2.5 to 2.5	Pass
				20	3.27	-4.334	-0.0062	-2.5 to 2.5	Pass
					3.85	-1.402	-0.0020	-2.5 to 2.5	Pass
					4.43	-2.489	-0.0035	-2.5 to 2.5	Pass
16QAM	704	50	0	-30	3.85	-3.061	-0.0043	-2.5 to 2.5	Pass
				-20	3.85	-10.300	-0.0146	-2.5 to 2.5	Pass
				-10	3.85	-8.140	-0.0116	-2.5 to 2.5	Pass
				0	3.85	-6.552	-0.0093	-2.5 to 2.5	Pass
				10	3.85	-6.909	-0.0098	-2.5 to 2.5	Pass
				30	3.85	-8.597	-0.0122	-2.5 to 2.5	Pass
				40	3.85	-4.721	-0.0067	-2.5 to 2.5	Pass
				50	3.85	-4.950	-0.0070	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-0.544	-0.0008	-2.5 to 2.5	Pass
					3.85	-9.670	-0.0137	-2.5 to 2.5	Pass
					4.43	-8.483	-0.0120	-2.5 to 2.5	Pass
				-30	3.85	-3.233	-0.0046	-2.5 to 2.5	Pass
				-20	3.85	-2.346	-0.0033	-2.5 to 2.5	Pass
				-10	3.85	-2.446	-0.0035	-2.5 to 2.5	Pass
				0	3.85	-5.307	-0.0075	-2.5 to 2.5	Pass
				10	3.85	-5.465	-0.0077	-2.5 to 2.5	Pass
				30	3.85	-4.177	-0.0059	-2.5 to 2.5	Pass
				40	3.85	-3.777	-0.0053	-2.5 to 2.5	Pass
				50	3.85	-5.565	-0.0079	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-7.367	-0.0104	-2.5 to 2.5	Pass
					3.85	-7.410	-0.0104	-2.5 to 2.5	Pass
					4.43	-6.466	-0.0091	-2.5 to 2.5	Pass
				-30	3.85	-9.398	-0.0132	-2.5 to 2.5	Pass
				-20	3.85	-9.270	-0.0130	-2.5 to 2.5	Pass
				-10	3.85	-9.899	-0.0139	-2.5 to 2.5	Pass
				0	3.85	-9.212	-0.0130	-2.5 to 2.5	Pass
				10	3.85	-1.473	-0.0021	-2.5 to 2.5	Pass
				30	3.85	-1.903	-0.0027	-2.5 to 2.5	Pass
				40	3.85	-2.217	-0.0031	-2.5 to 2.5	Pass
				50	3.85	-1.674	-0.0024	-2.5 to 2.5	Pass

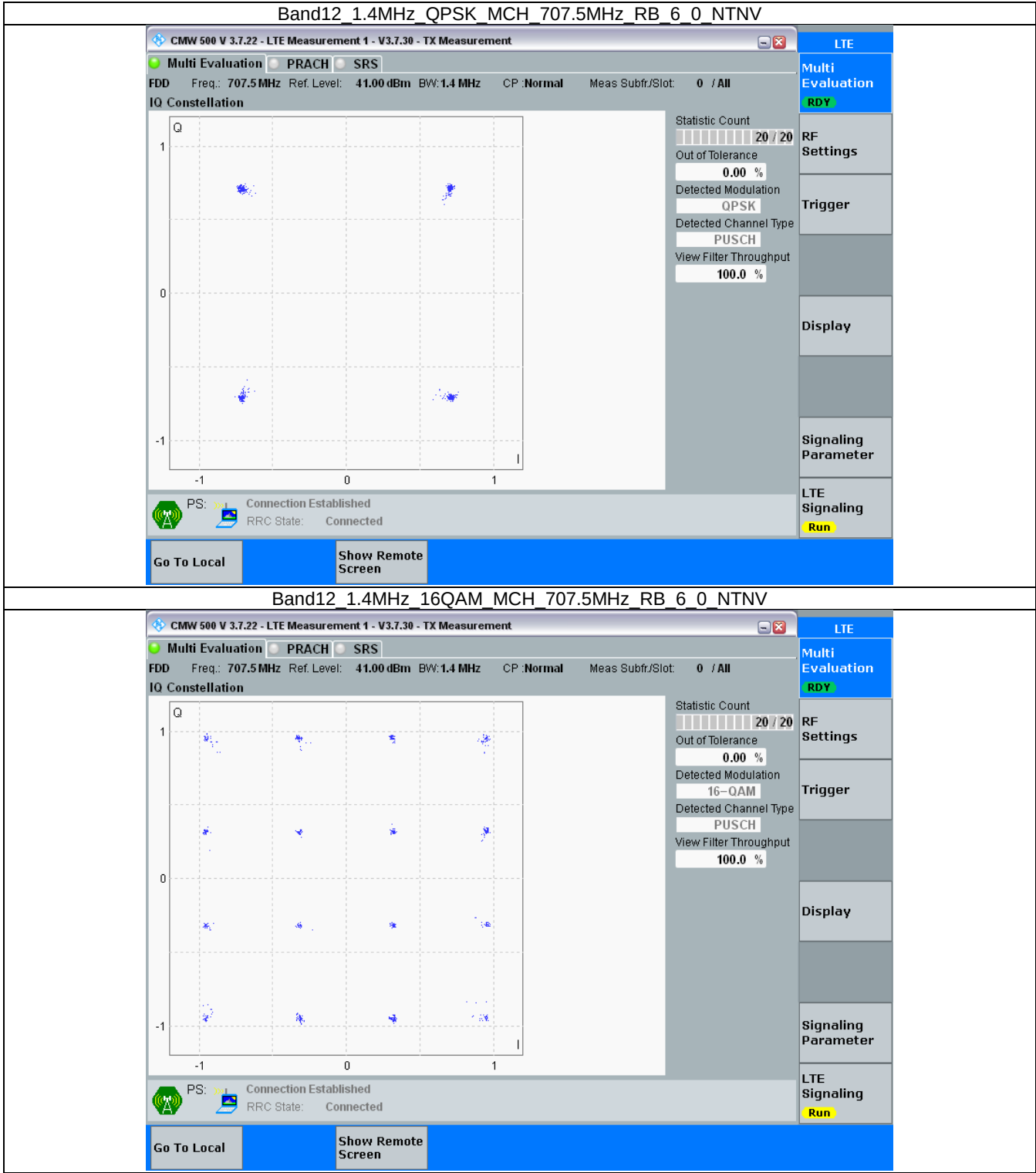
3. Modulation Characteristics

3.1 B12_1.4MHz

3.1.1 Test Result

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

3.1.2 Test Graph

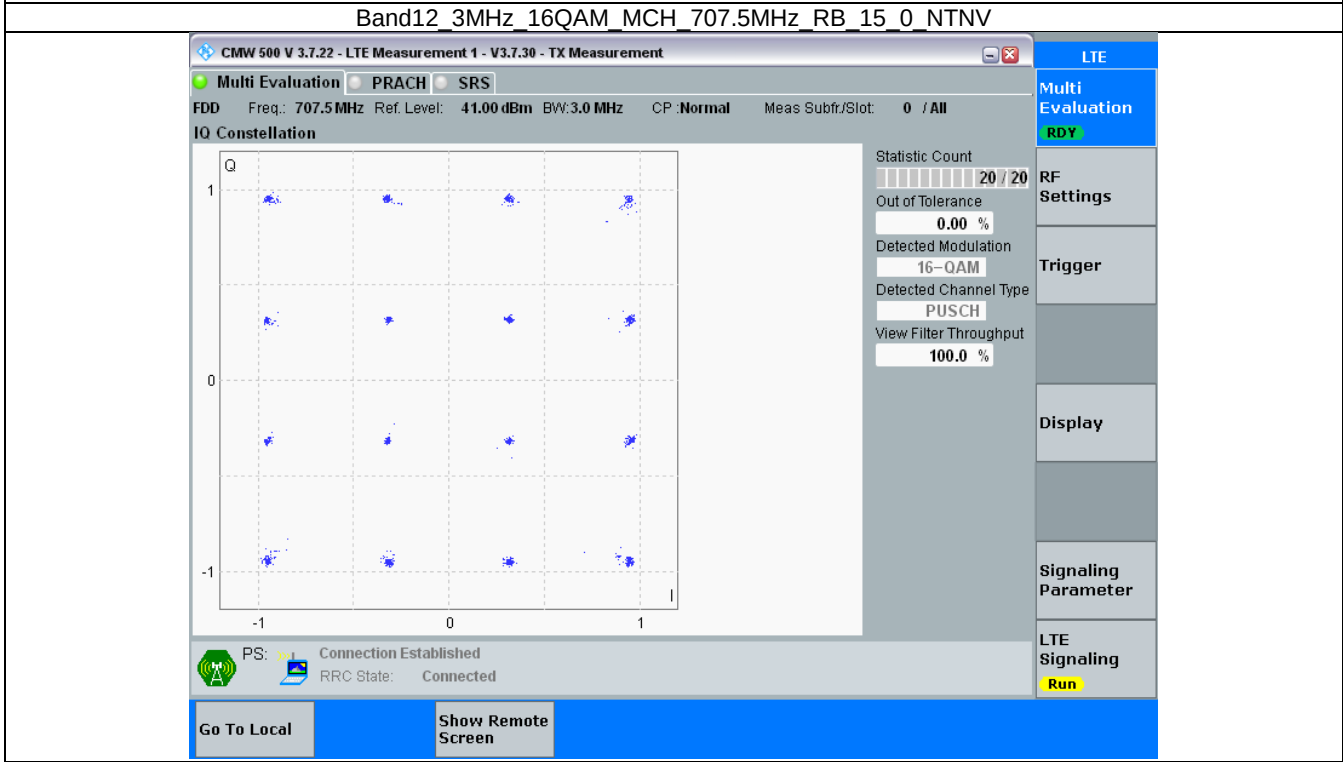
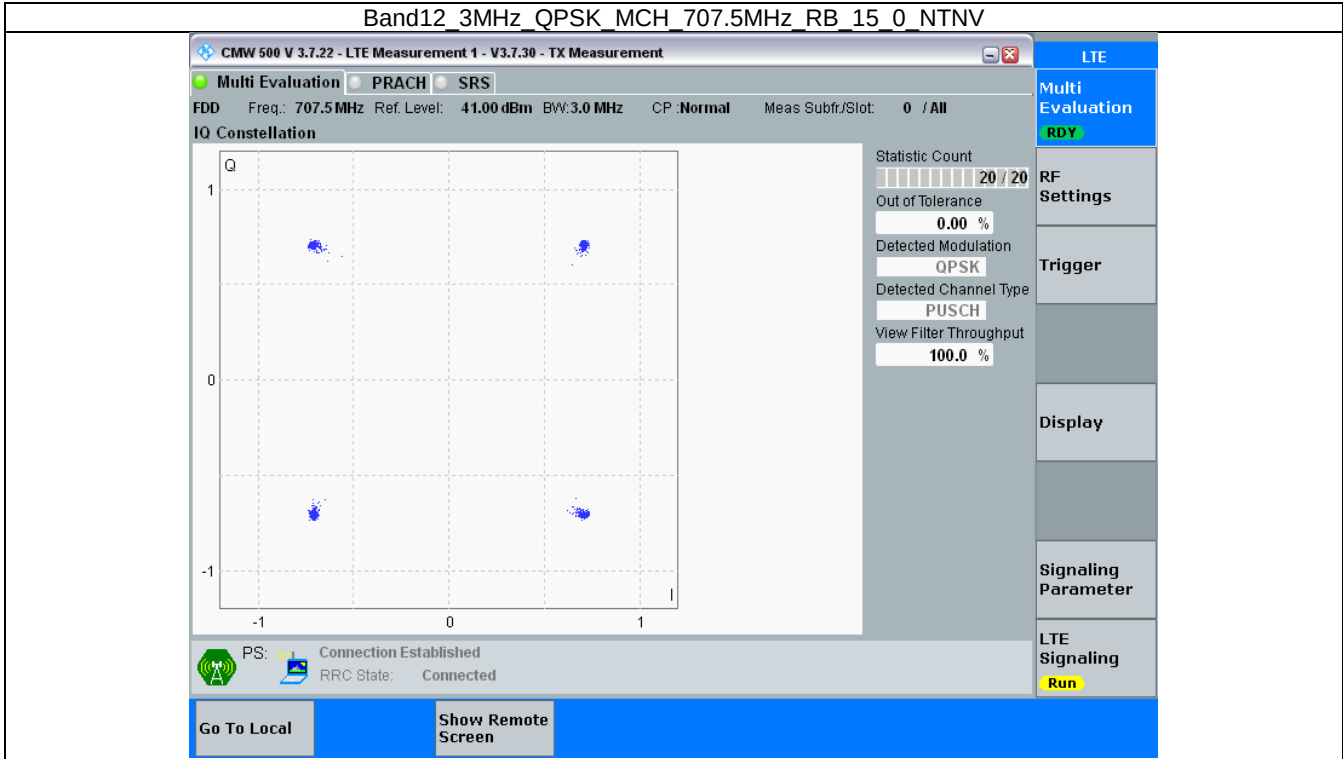


3.2 B12_3MHz

3.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	15	0	Refer To Test Graph		Pass
16QAM	707.5	15	0	Refer To Test Graph		Pass

3.2.2 Test Graph

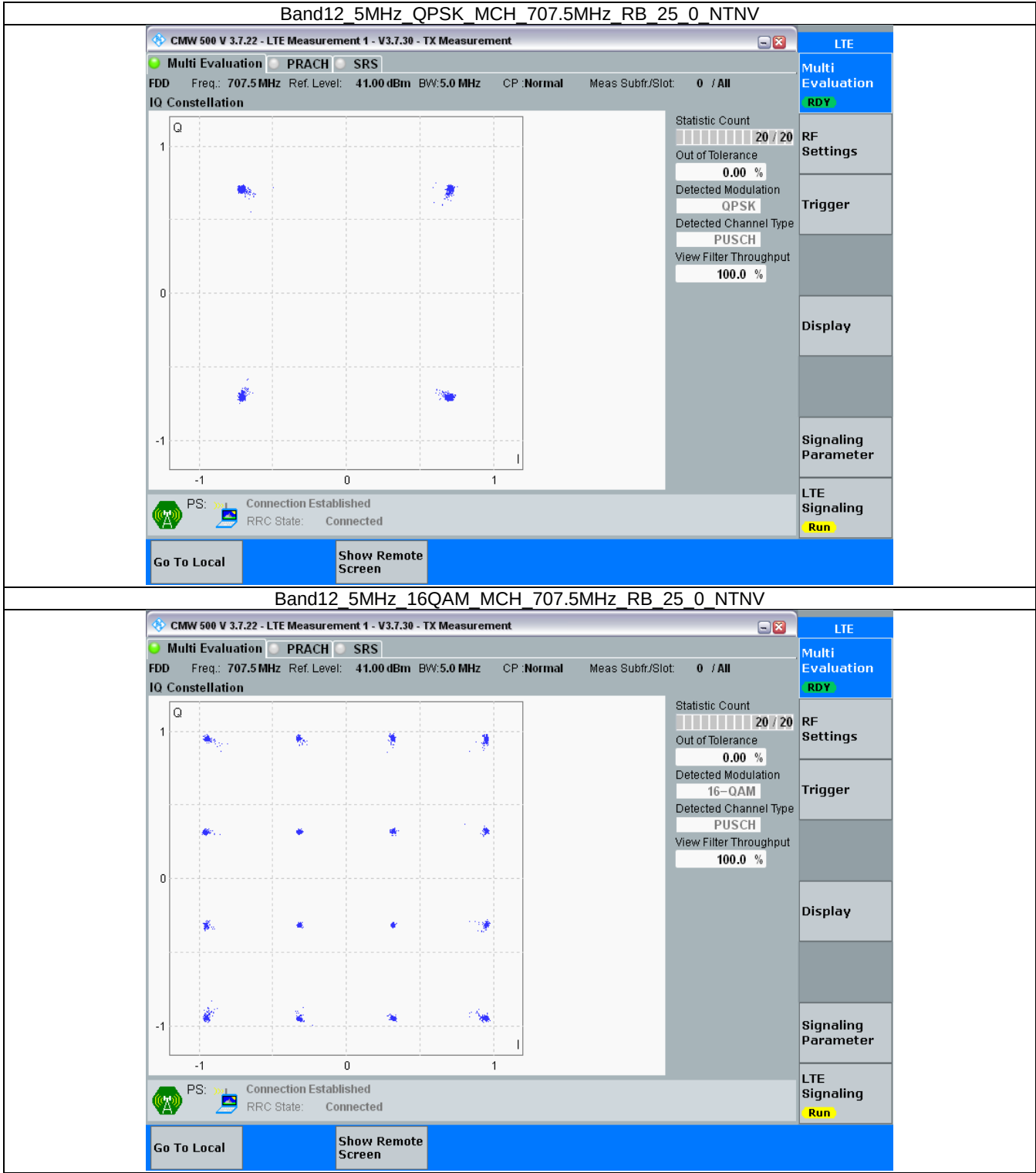


3.3 B12_5MHz

3.3.1 Test Result

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

3.3.2 Test Graph

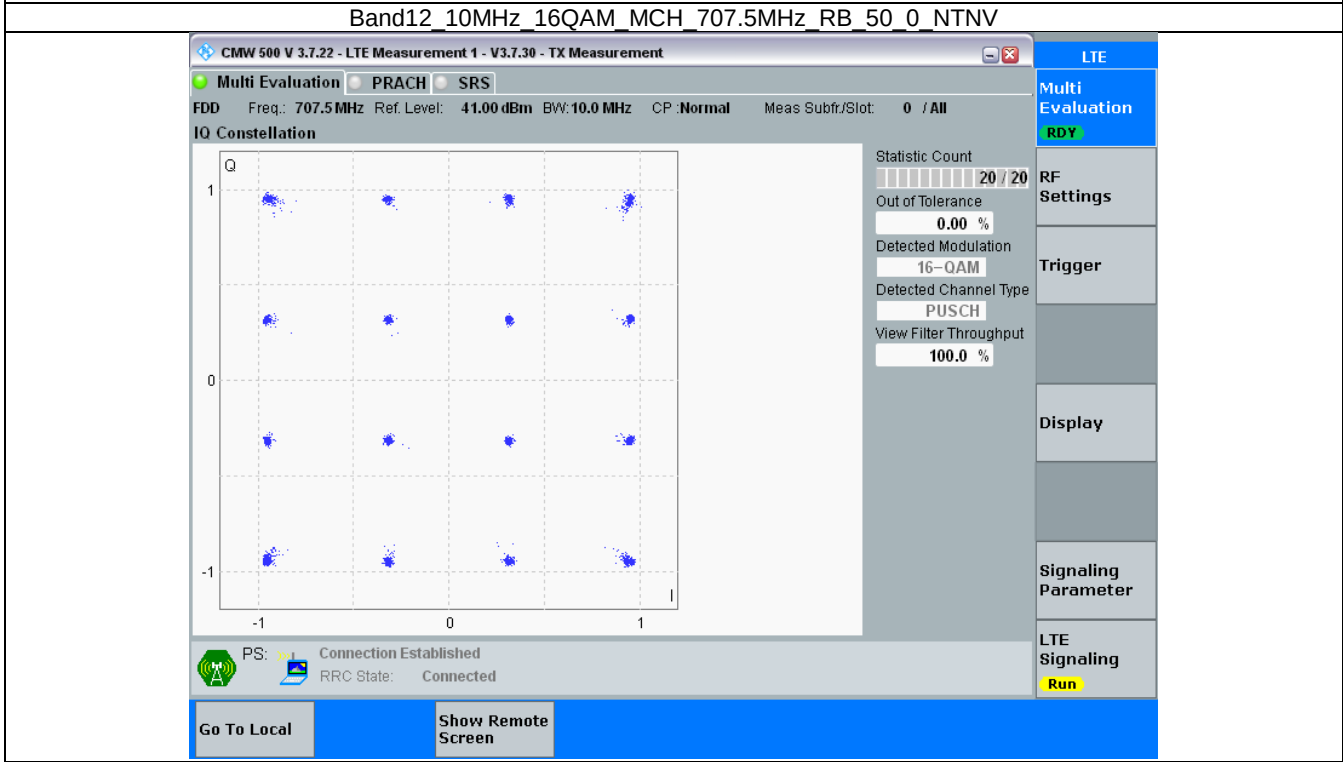
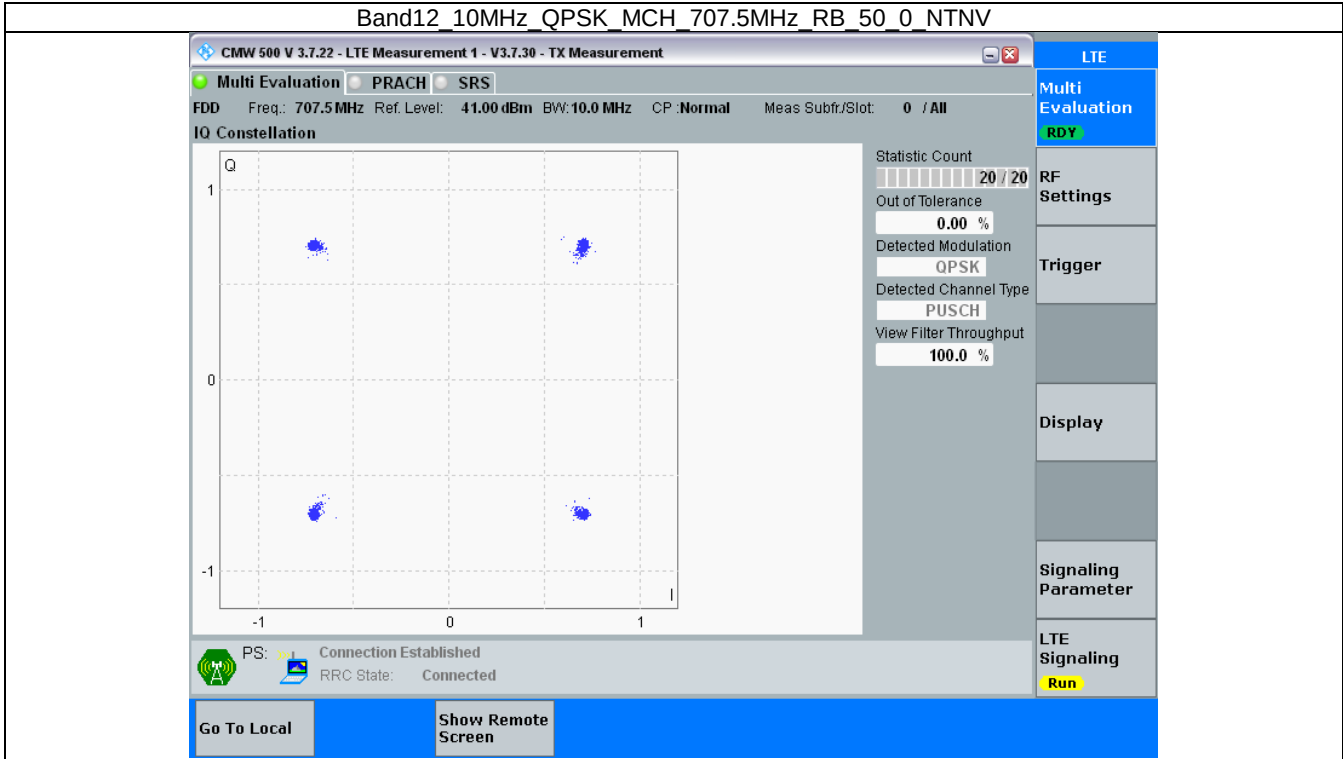


3.4 B12_10MHz

3.4.1 Test Result

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

3.4.2 Test Graph



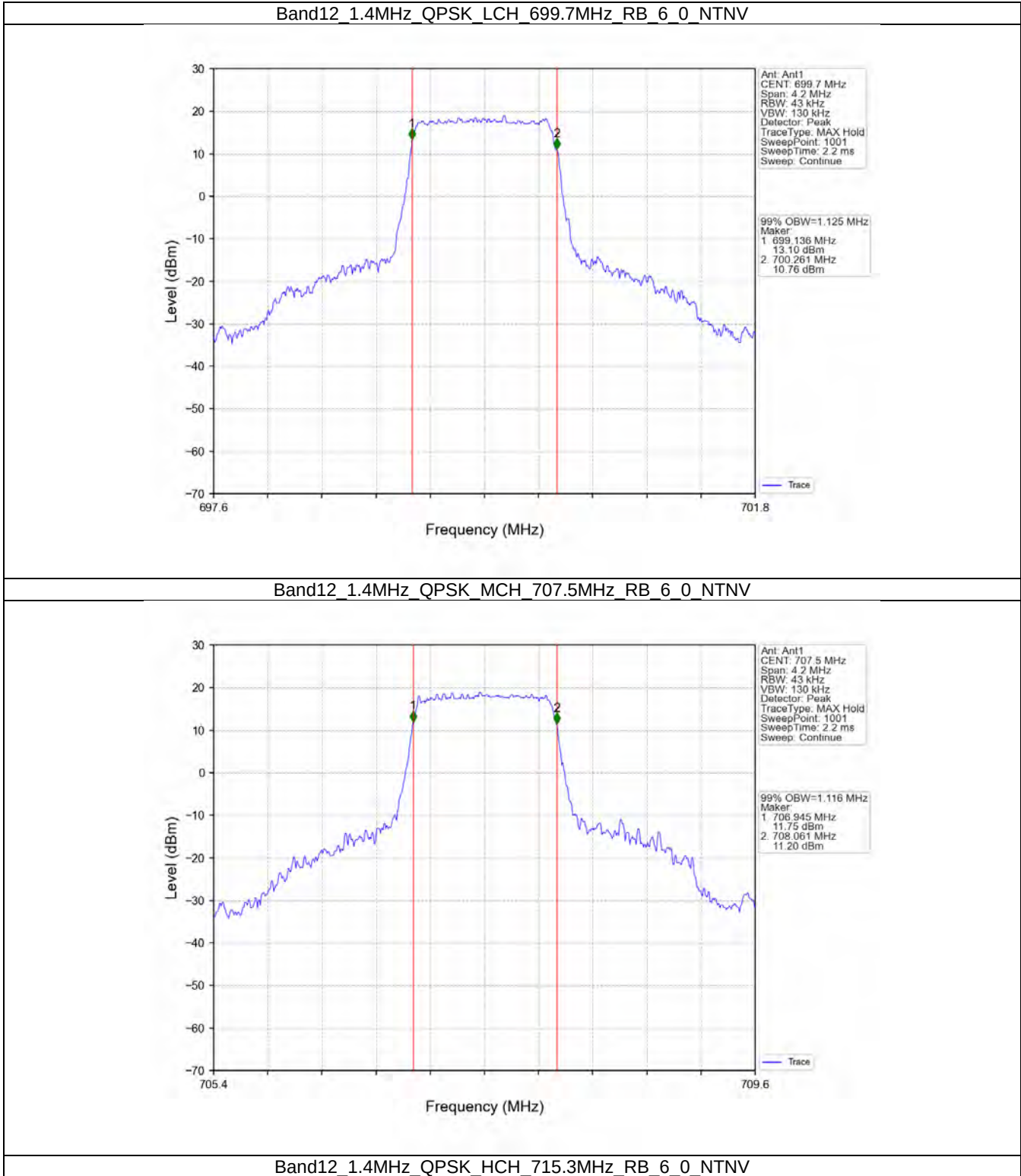
4. 99% & 26dB Bandwidth

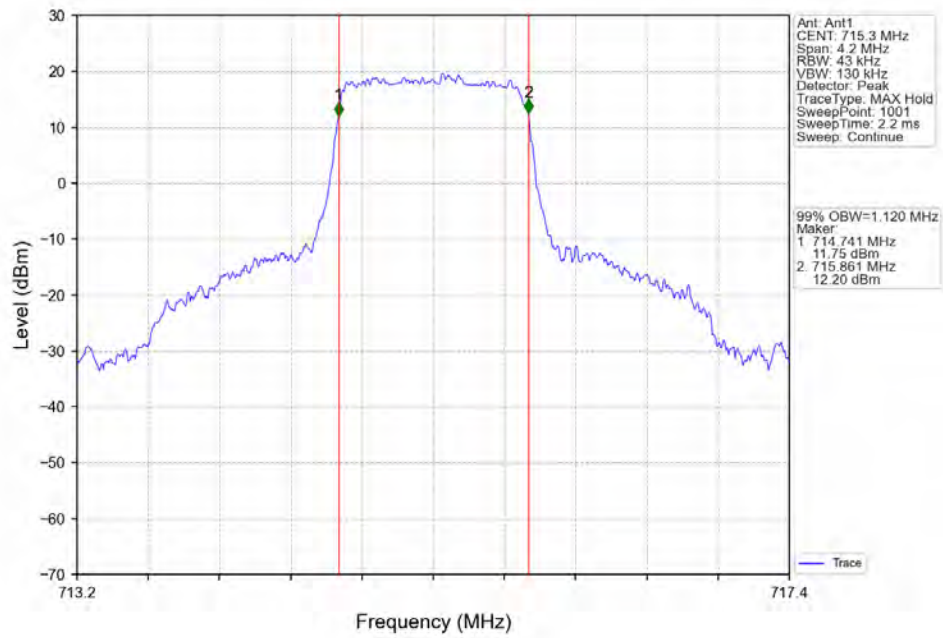
4.1 Band12_OBW

4.1.1 Test Result

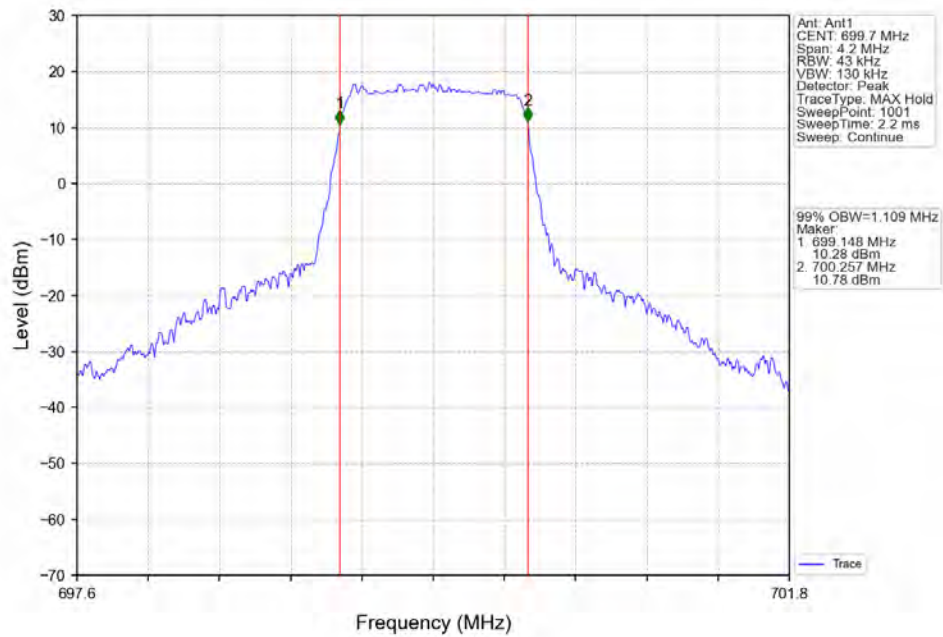
Band: 12 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	699.7	6	0	1.125	Pass
		707.5	6	0	1.116	Pass
		715.3	6	0	1.120	Pass
	16QAM	699.7	6	0	1.109	Pass
		707.5	6	0	1.101	Pass
		715.3	6	0	1.115	Pass
3	QPSK	700.5	15	0	2.729	Pass
		707.5	15	0	2.726	Pass
		714.5	15	0	2.733	Pass
	16QAM	700.5	15	0	2.719	Pass
		707.5	15	0	2.728	Pass
		714.5	15	0	2.735	Pass
5	QPSK	701.5	25	0	4.552	Pass
		707.5	25	0	4.572	Pass
		713.5	25	0	4.589	Pass
	16QAM	701.5	25	0	4.578	Pass
		707.5	25	0	4.577	Pass
		713.5	25	0	4.577	Pass
10	QPSK	704	50	0	9.148	Pass
		707.5	50	0	9.061	Pass
		711	50	0	9.005	Pass
	16QAM	704	50	0	9.126	Pass
		707.5	50	0	9.072	Pass
		711	50	0	9.024	Pass

4.1.2 Test Graph

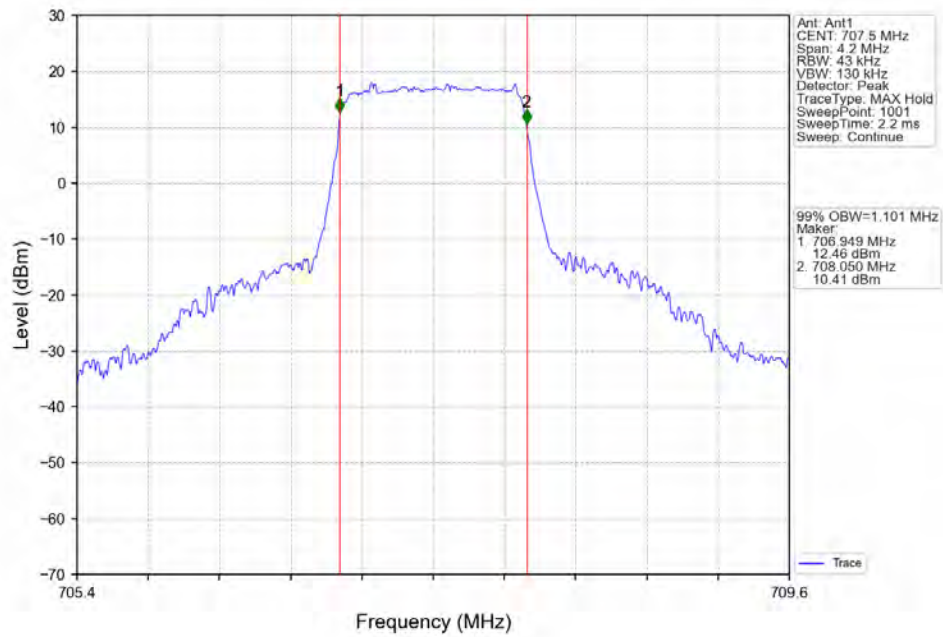




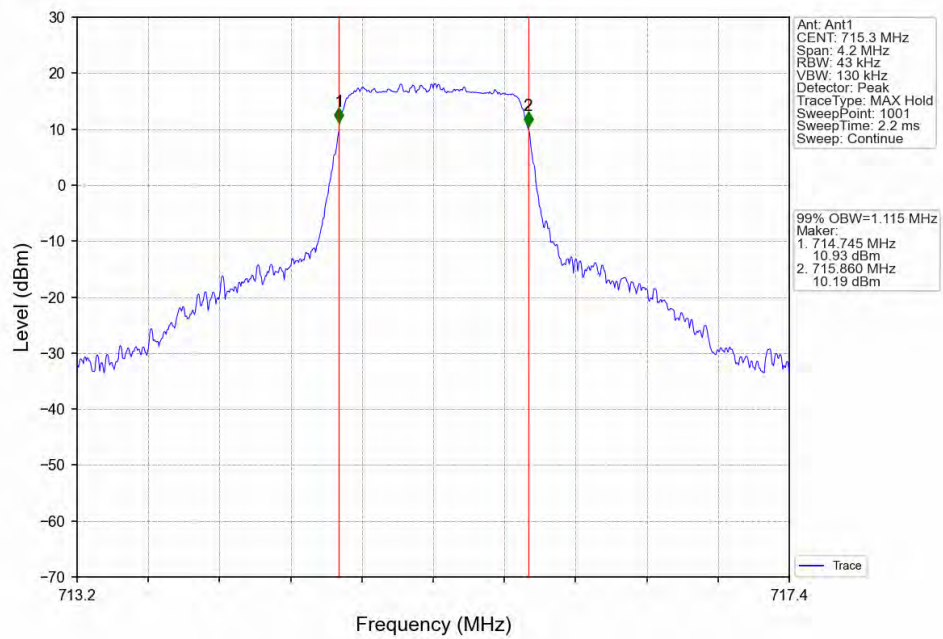
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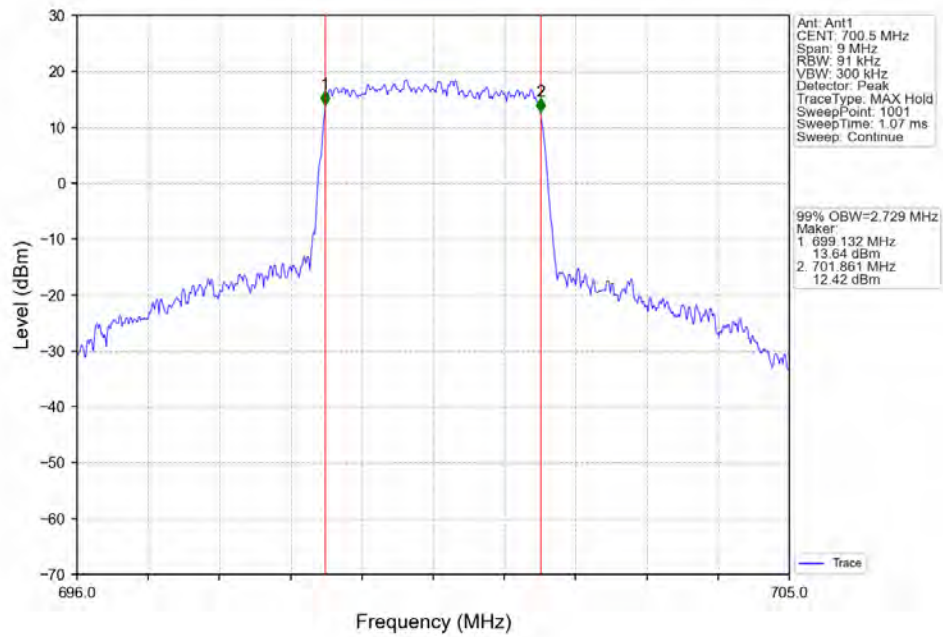
Band12 1.4MHz 16QAM MCH 707.5MHz RB 6 0 NTNV



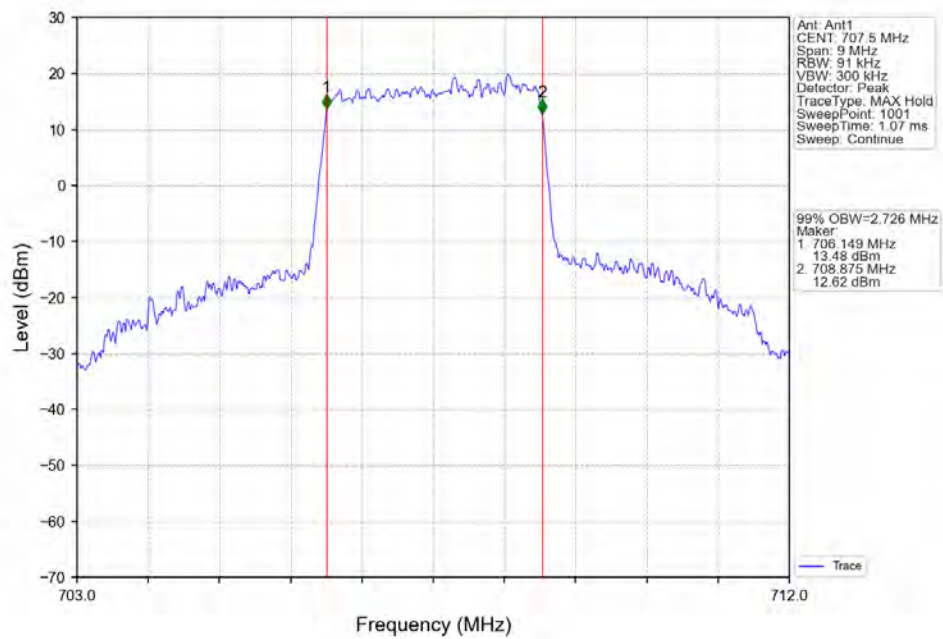
Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV



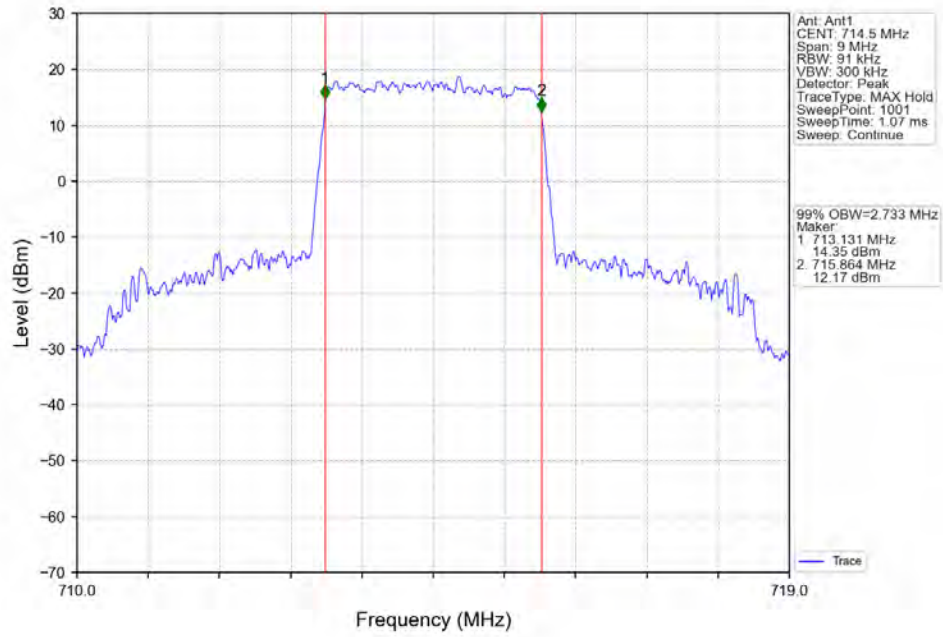
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



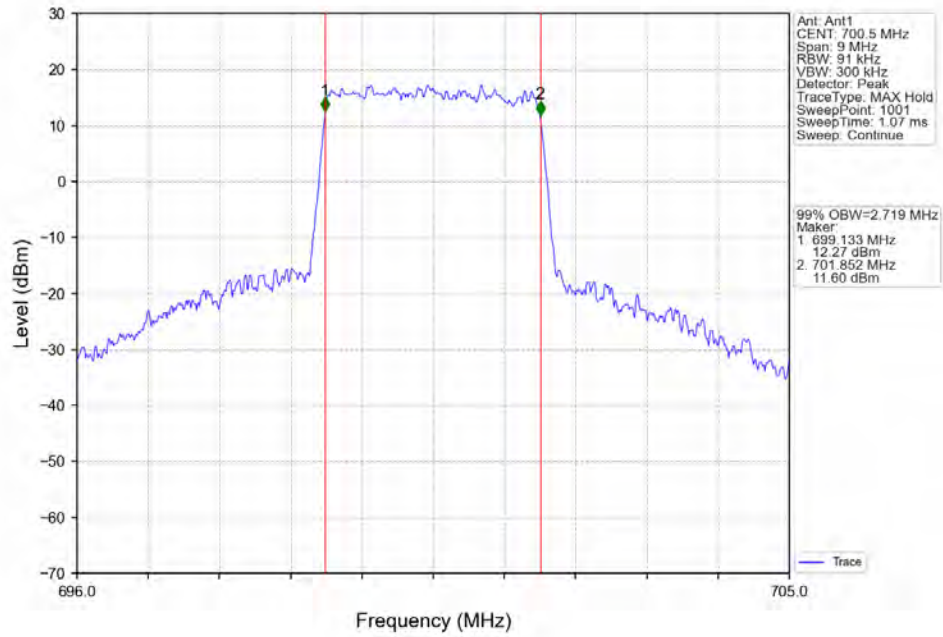
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



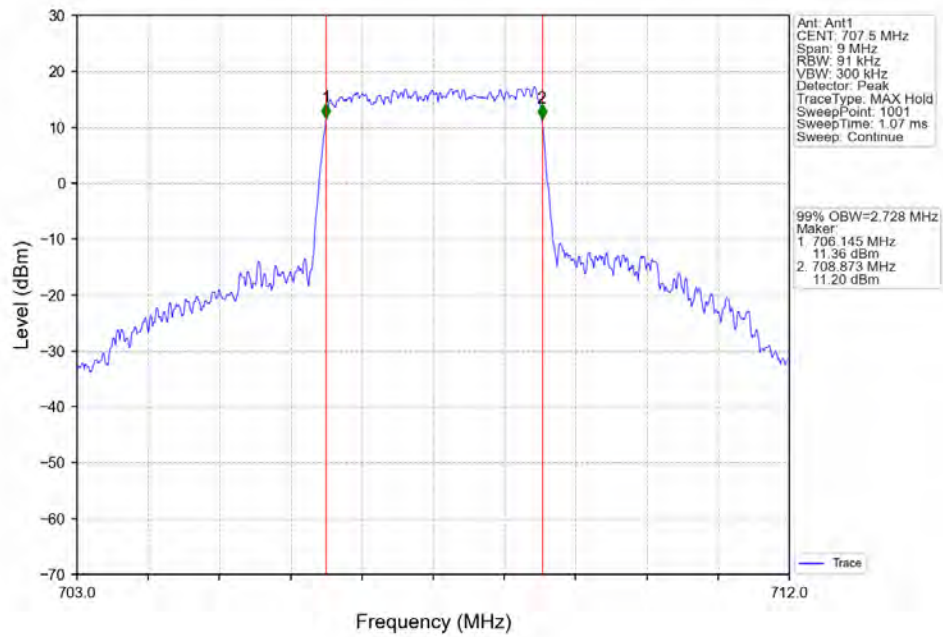
Band12 3MHz QPSK HCH 714.5MHz RB 15 0 NTNV



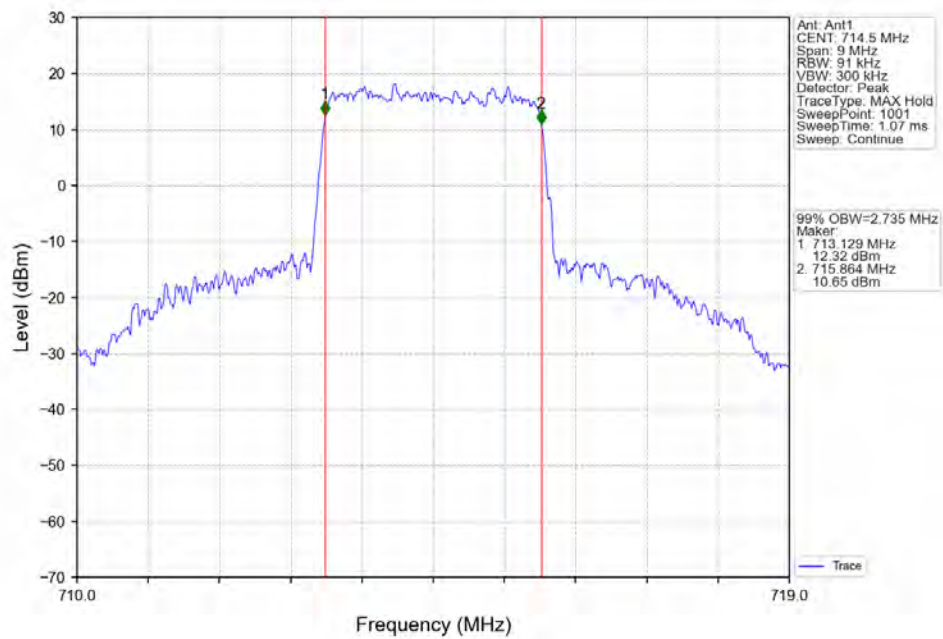
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



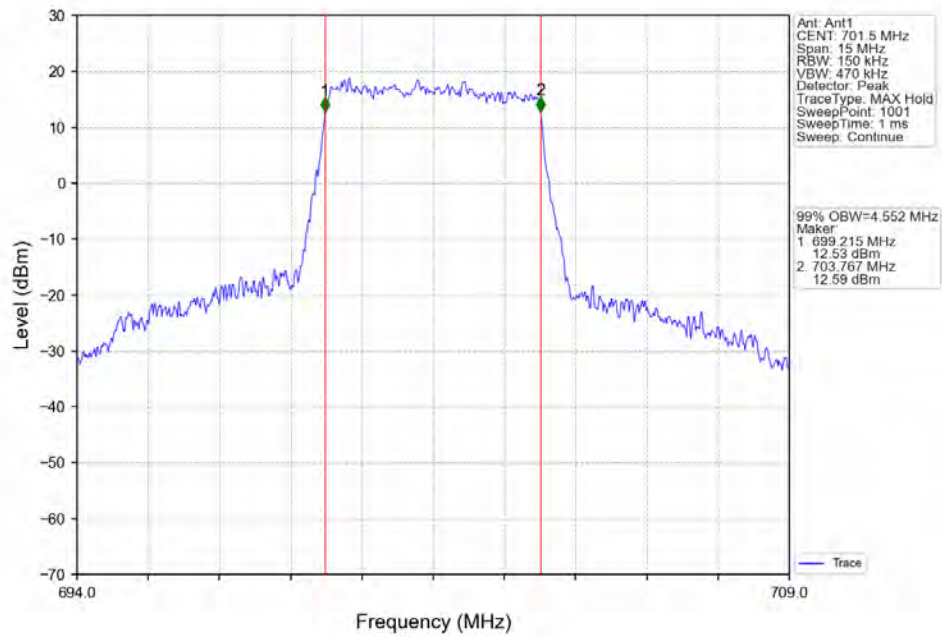
Band12 3MHz 16QAM MCH 707.5MHz RB 15 0 NTNV



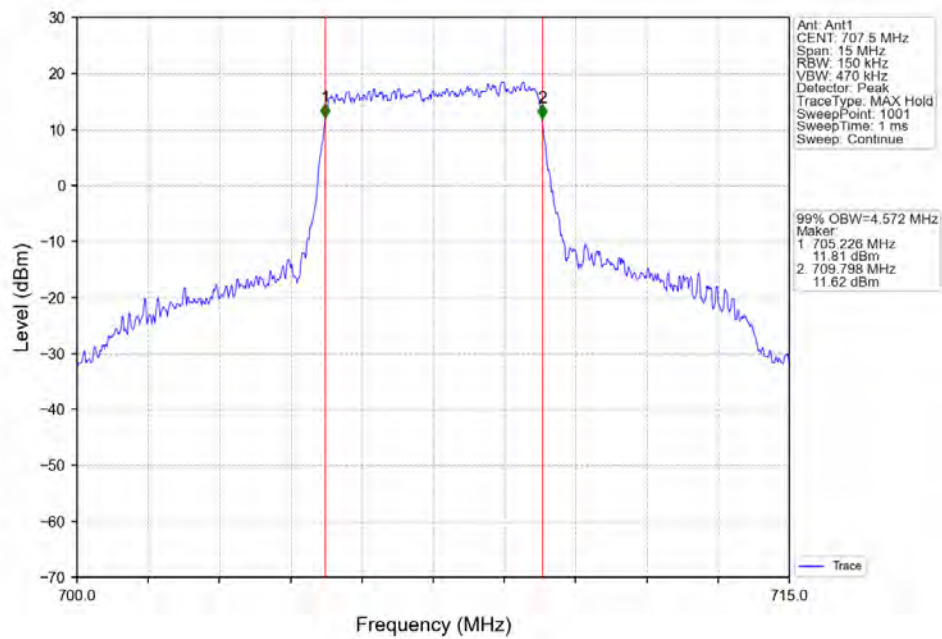
Band12 3MHz 16QAM HCH 714.5MHz RB 15 0 NTNV



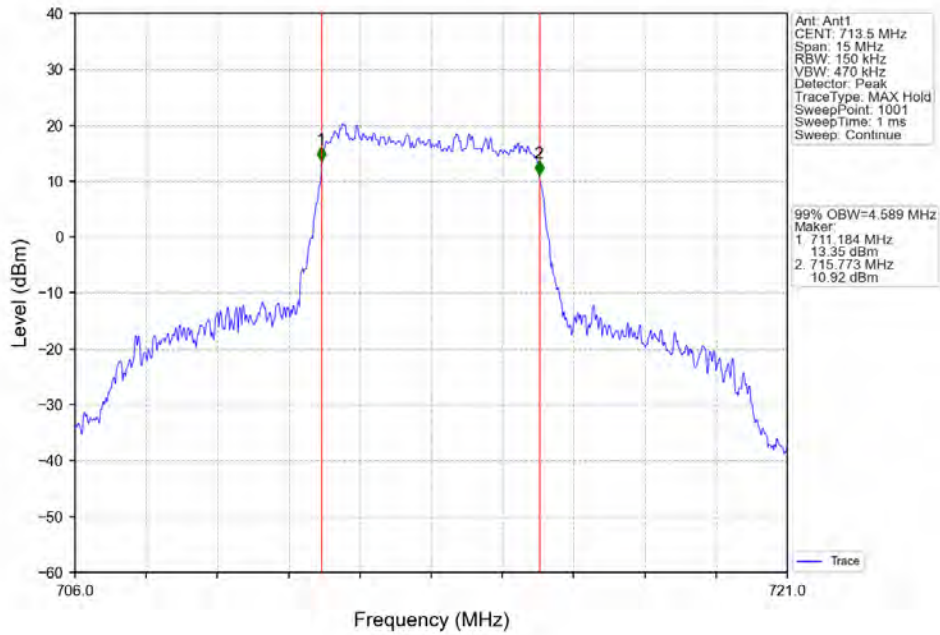
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



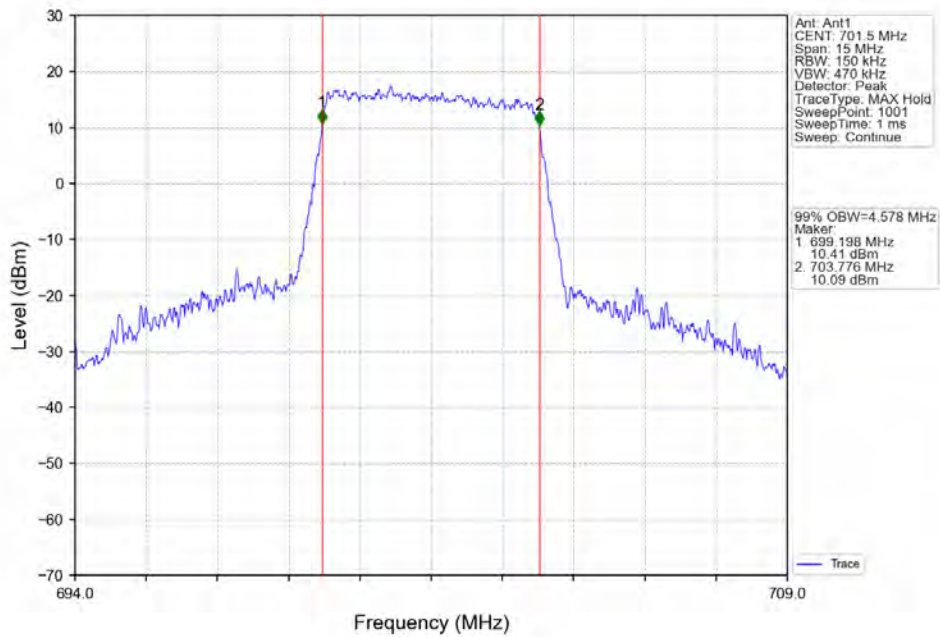
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



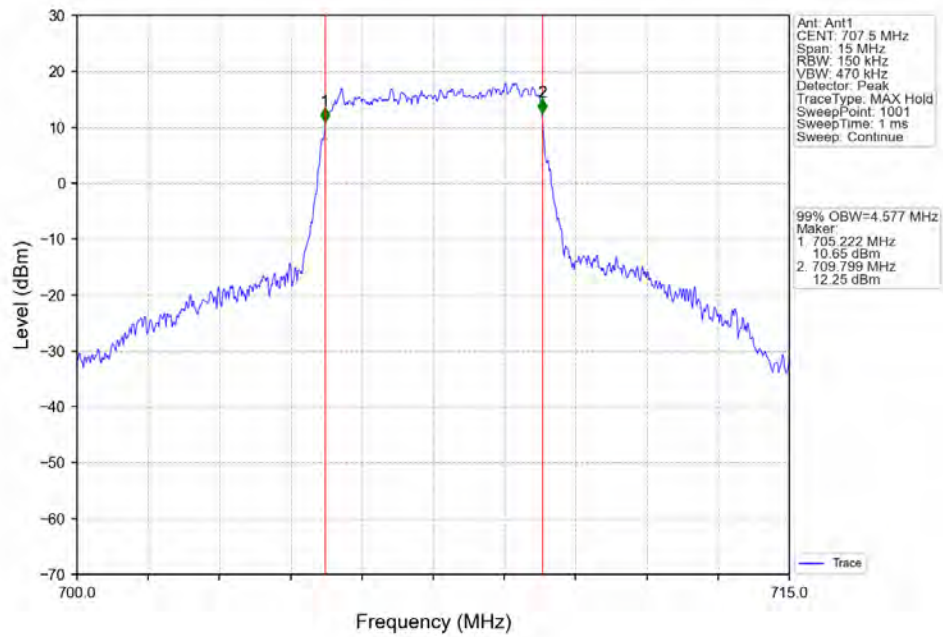
Band12 5MHz QPSK HCH 713.5MHz RB 25 0 NTNV



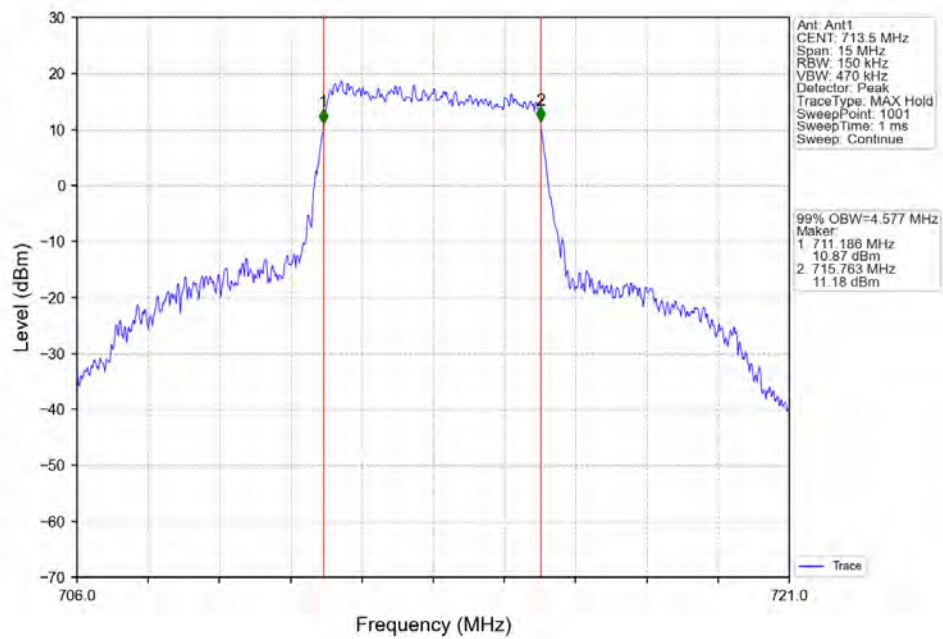
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



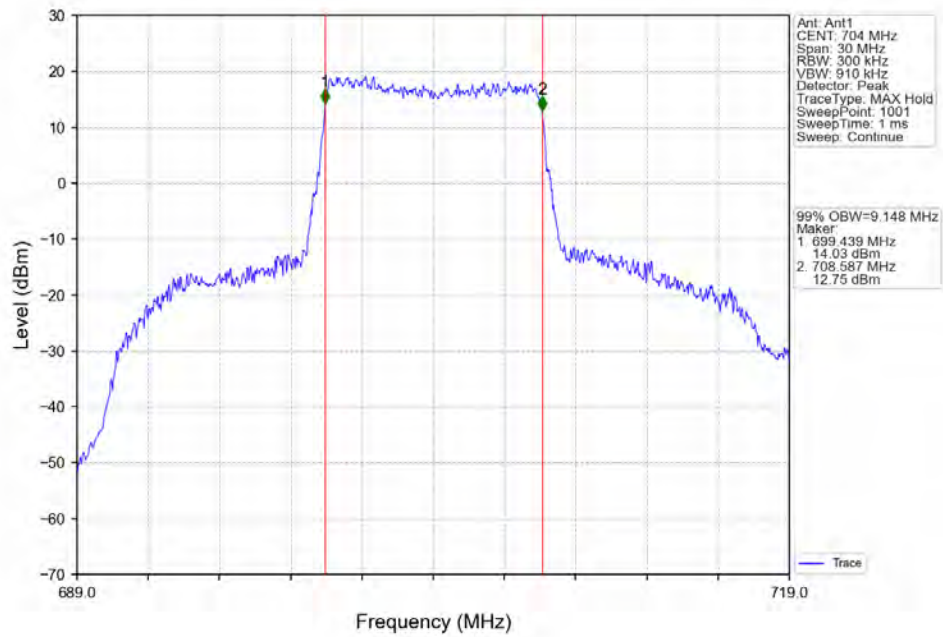
Band12 5MHz 16QAM MCH 707.5MHz RB 25 0 NTNV



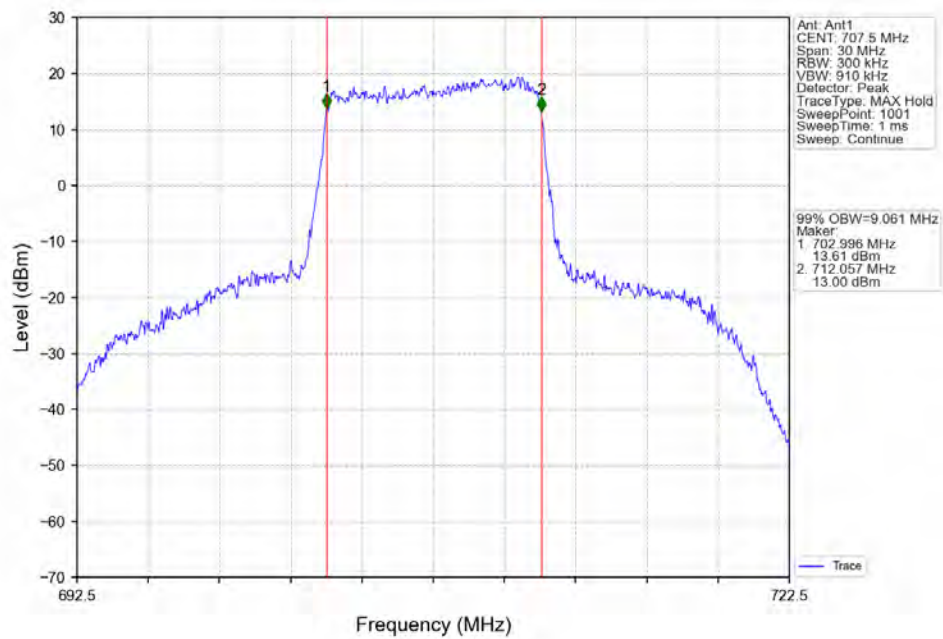
Band12 5MHz 16QAM HCH 713.5MHz RB 25 0 NTNV



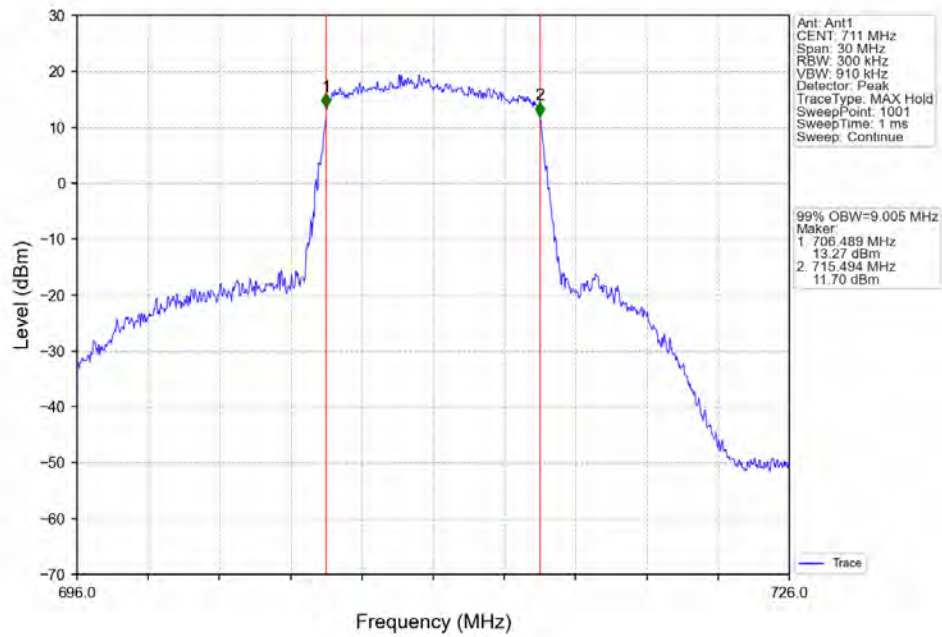
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



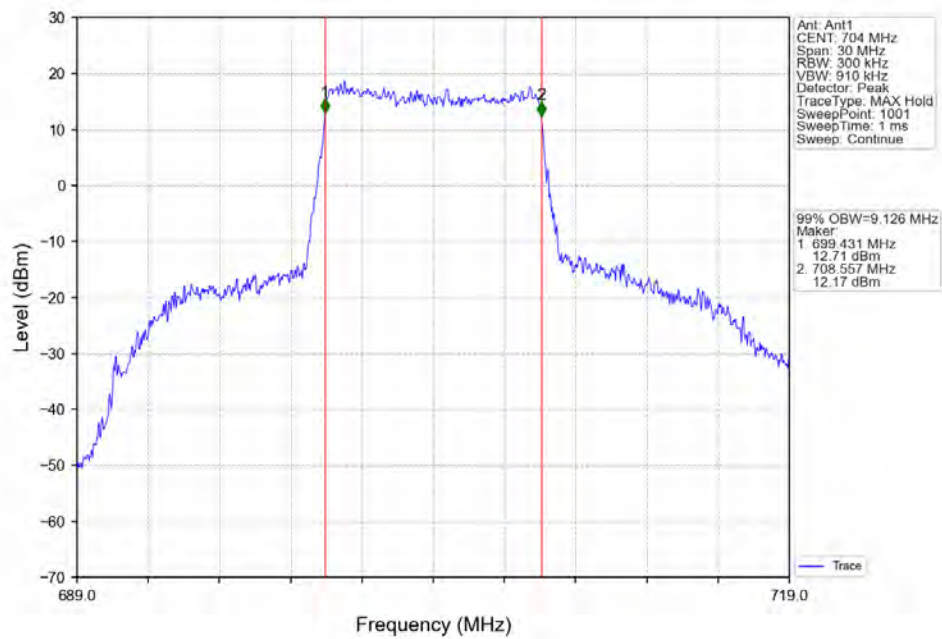
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



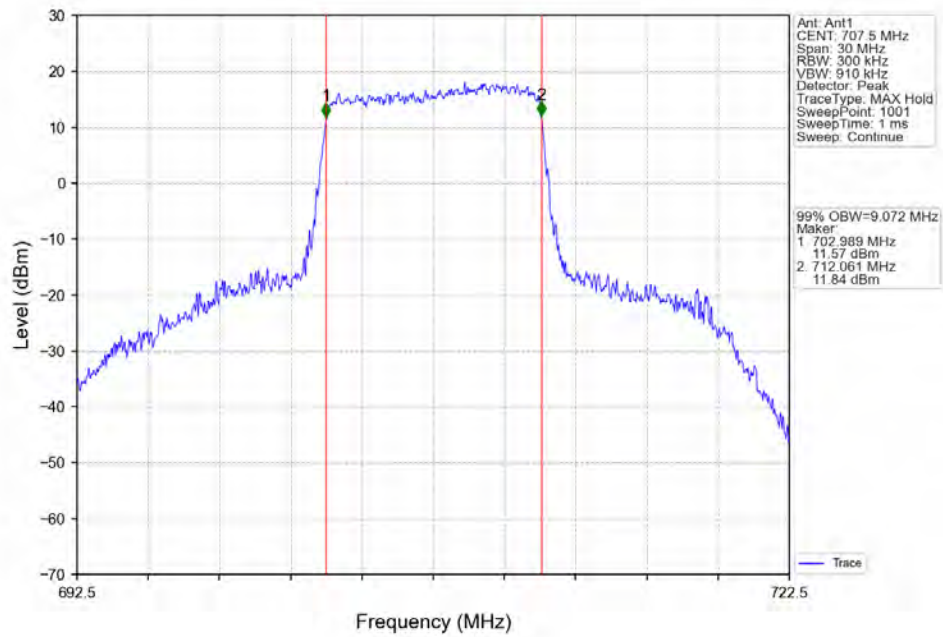
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



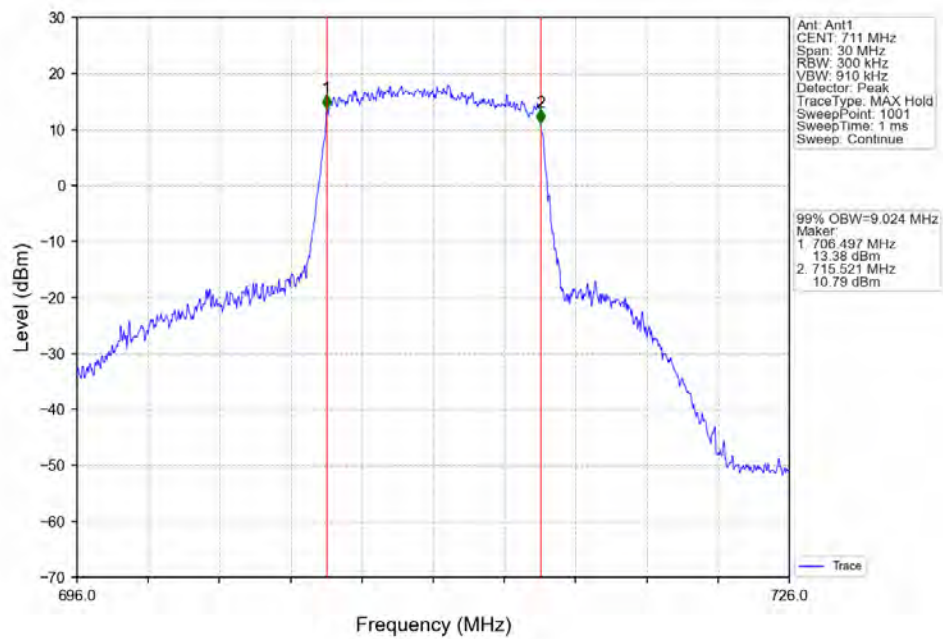
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV

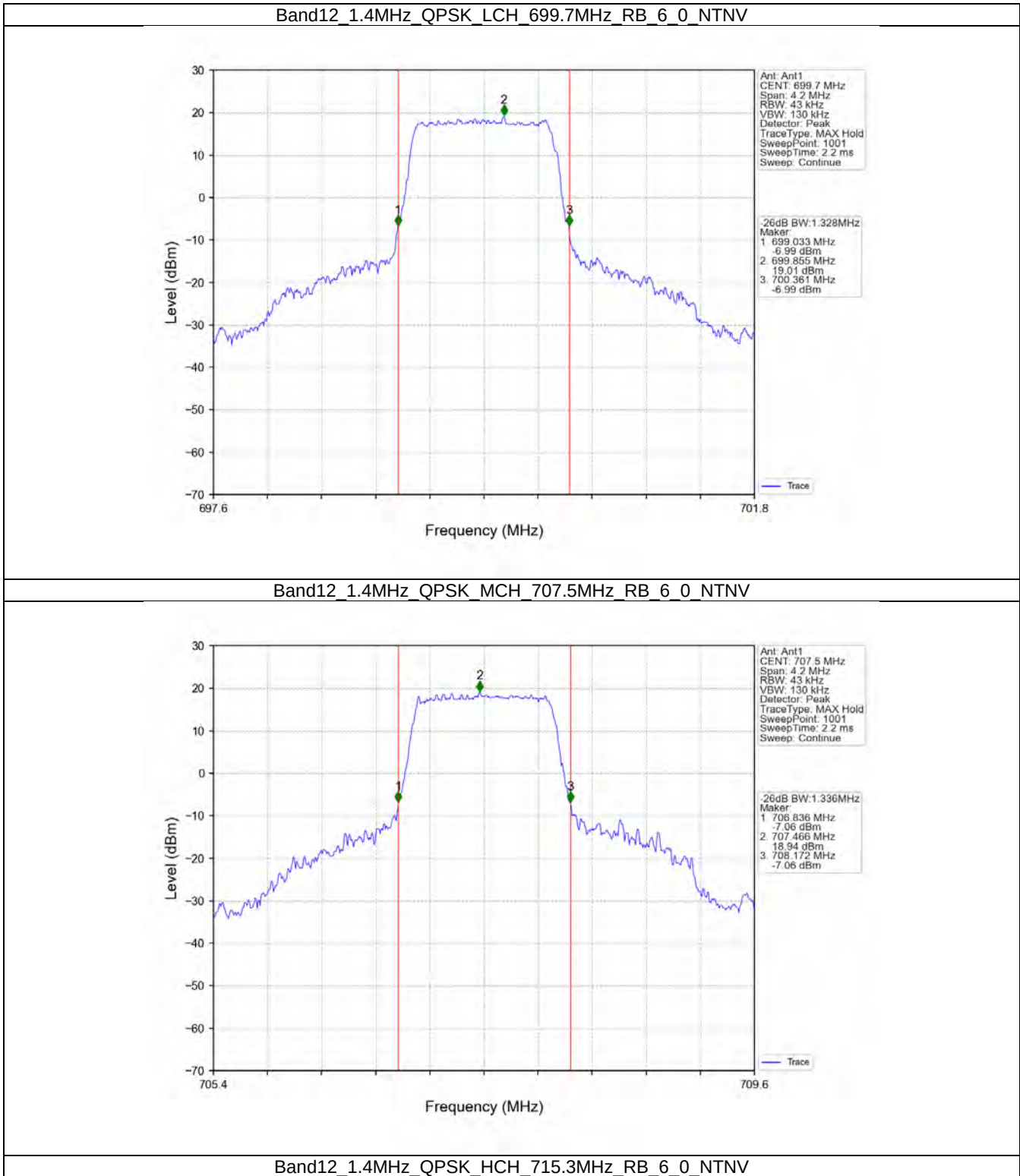


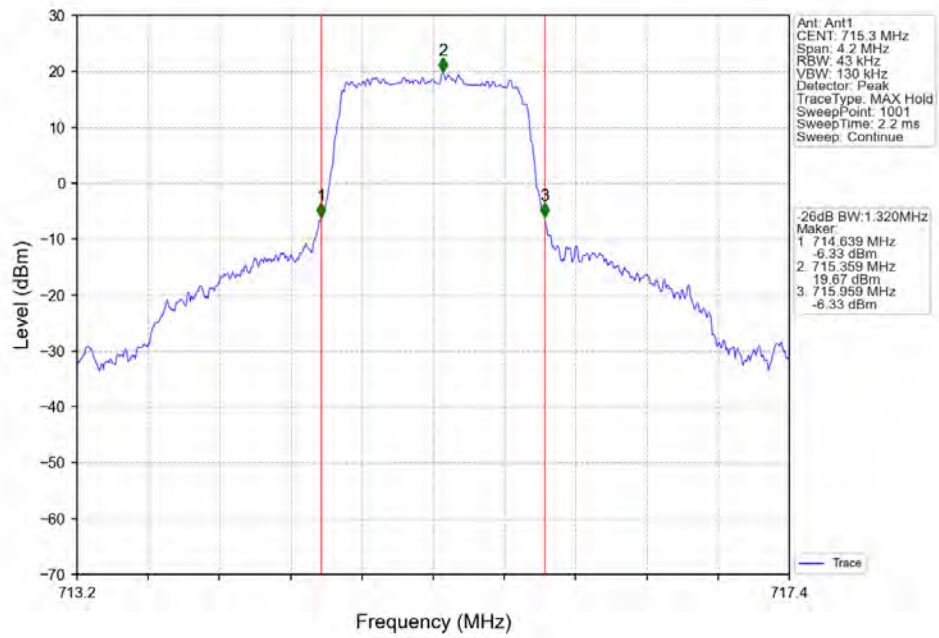
4.2 Band12_XDB

4.2.1 Test Result

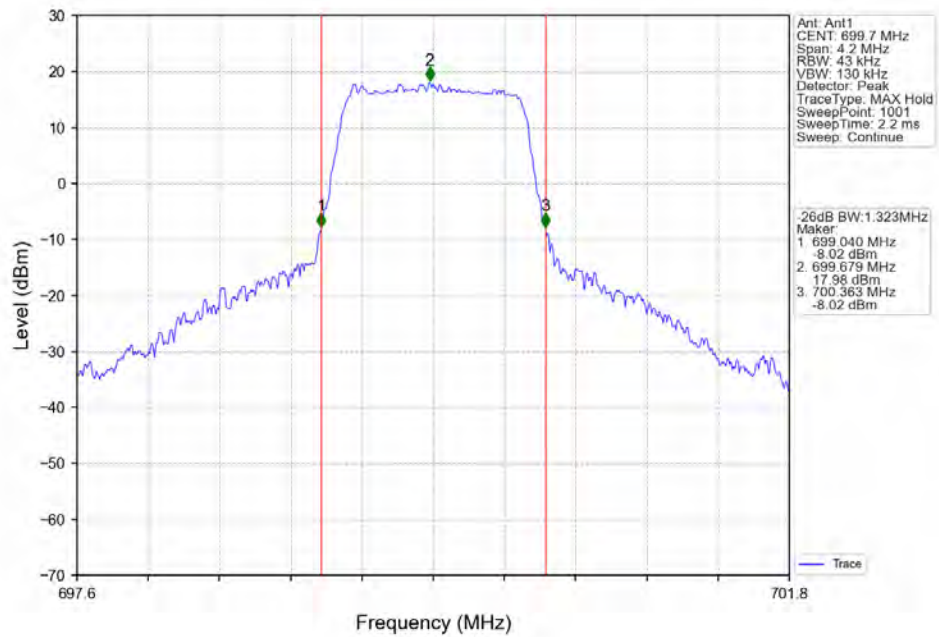
Band: 12 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	699.7	6	0	1.328	Pass
		707.5	6	0	1.336	Pass
		715.3	6	0	1.320	Pass
	16QAM	699.7	6	0	1.323	Pass
		707.5	6	0	1.300	Pass
		715.3	6	0	1.347	Pass
3	QPSK	700.5	15	0	2.988	Pass
		707.5	15	0	2.988	Pass
		714.5	15	0	3.020	Pass
	16QAM	700.5	15	0	2.995	Pass
		707.5	15	0	3.003	Pass
		714.5	15	0	3.007	Pass
5	QPSK	701.5	25	0	5.225	Pass
		707.5	25	0	5.266	Pass
		713.5	25	0	5.280	Pass
	16QAM	701.5	25	0	5.272	Pass
		707.5	25	0	5.269	Pass
		713.5	25	0	5.234	Pass
10	QPSK	704	50	0	10.357	Pass
		707.5	50	0	10.174	Pass
		711	50	0	10.184	Pass
	16QAM	704	50	0	10.386	Pass
		707.5	50	0	10.252	Pass
		711	50	0	10.083	Pass

4.2.2 Test Graph

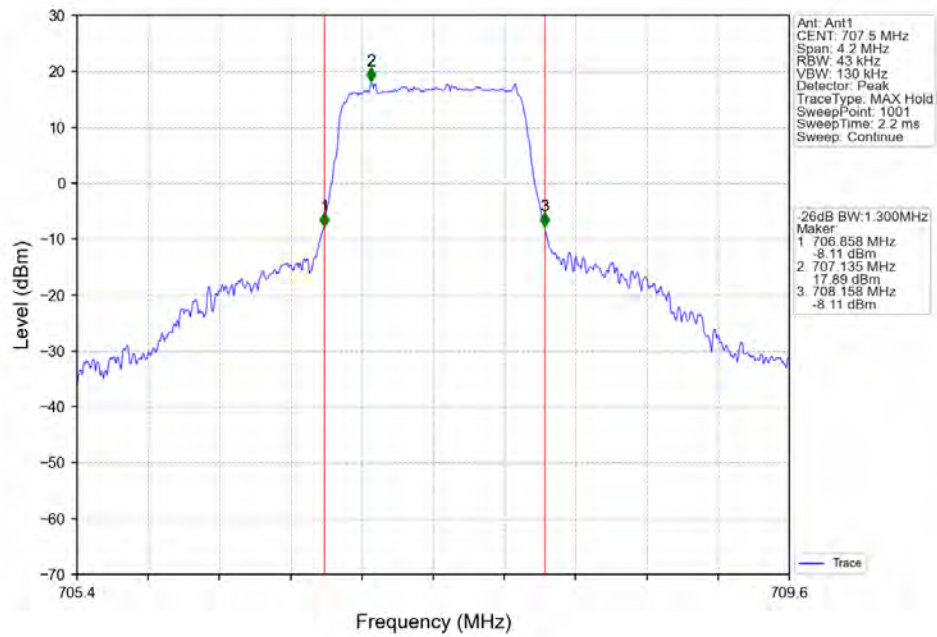




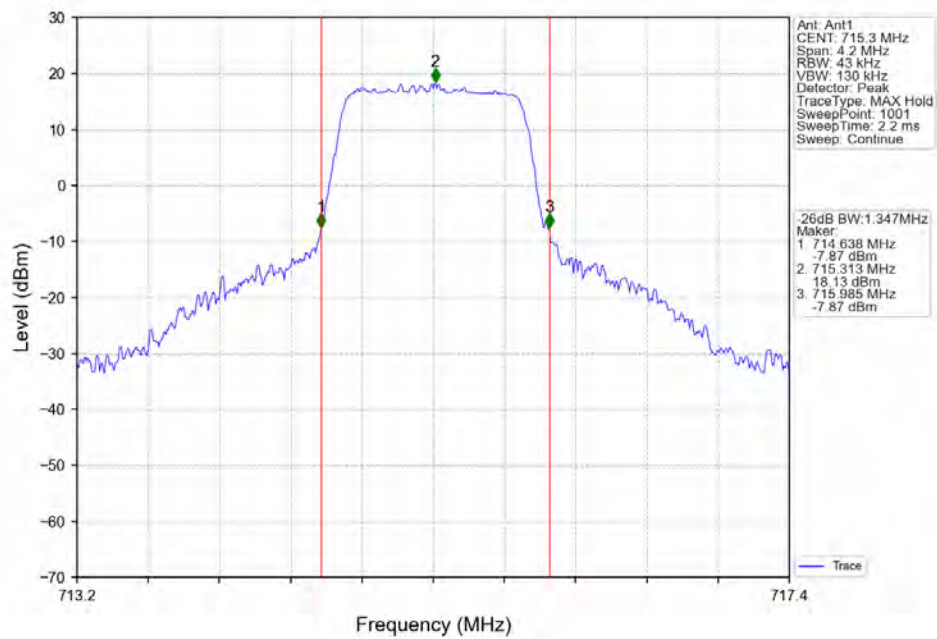
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



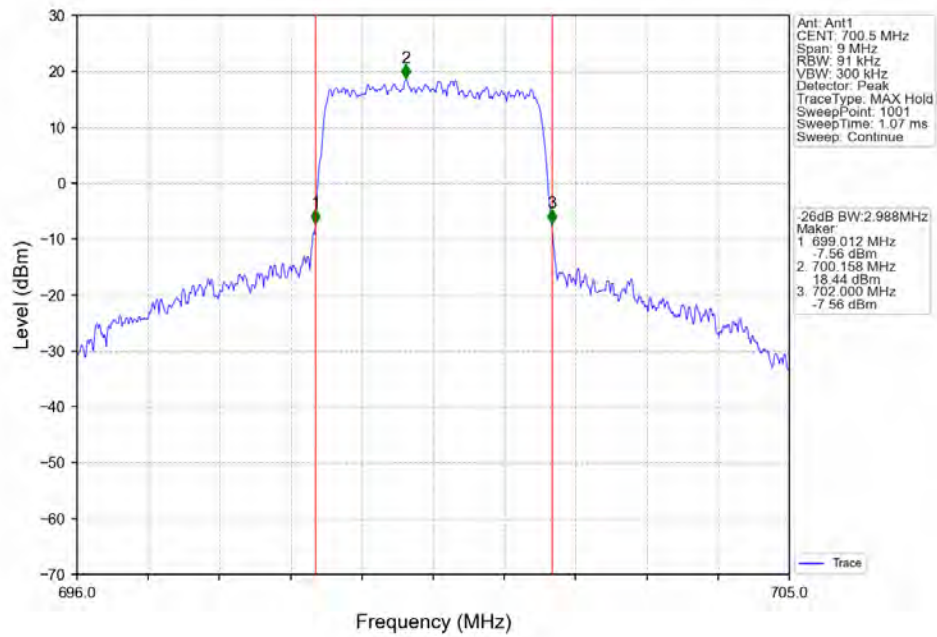
Band12 1.4MHz 16QAM MCH 707.5MHz RB 6 0 NTN



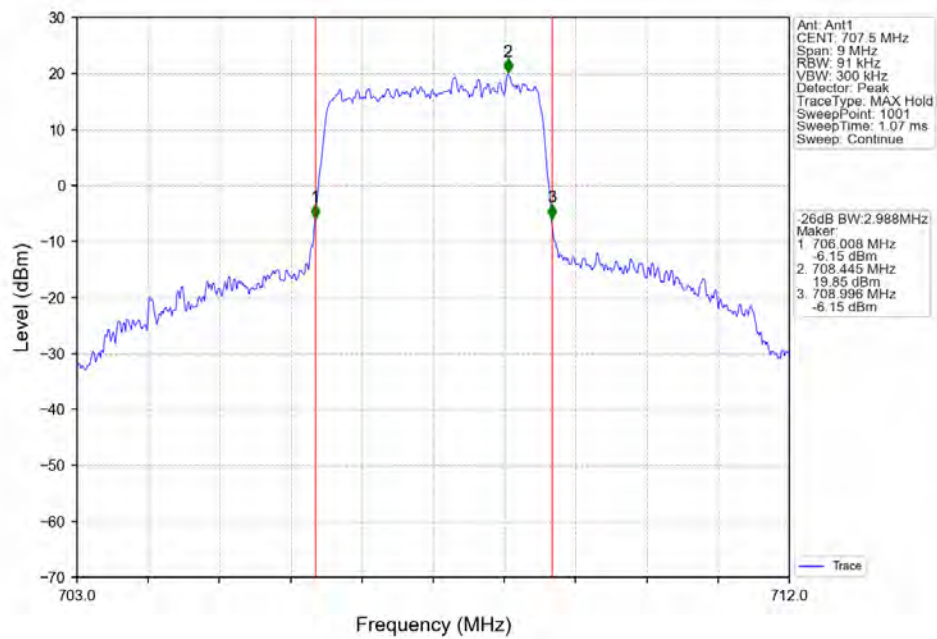
Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTN



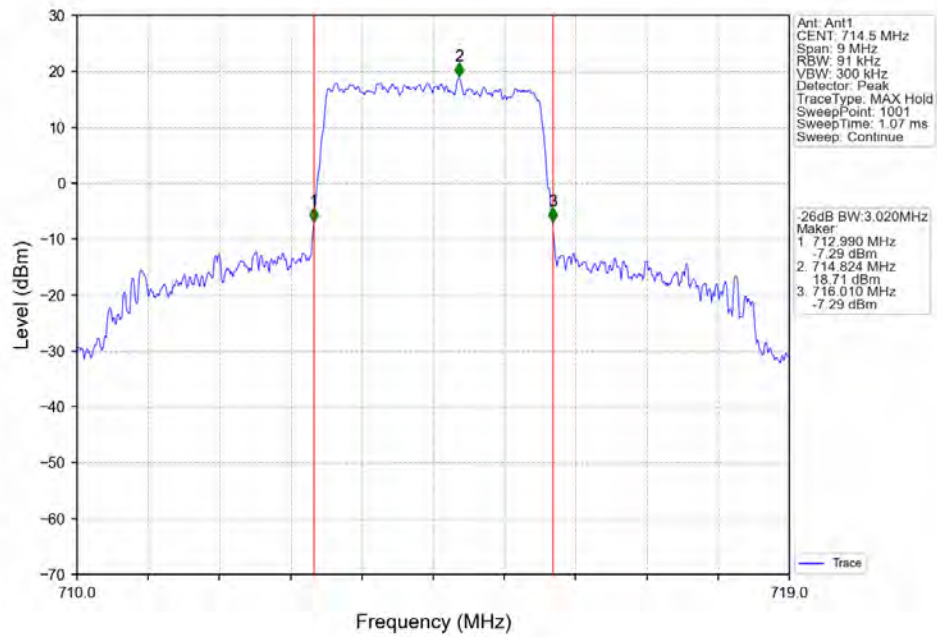
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



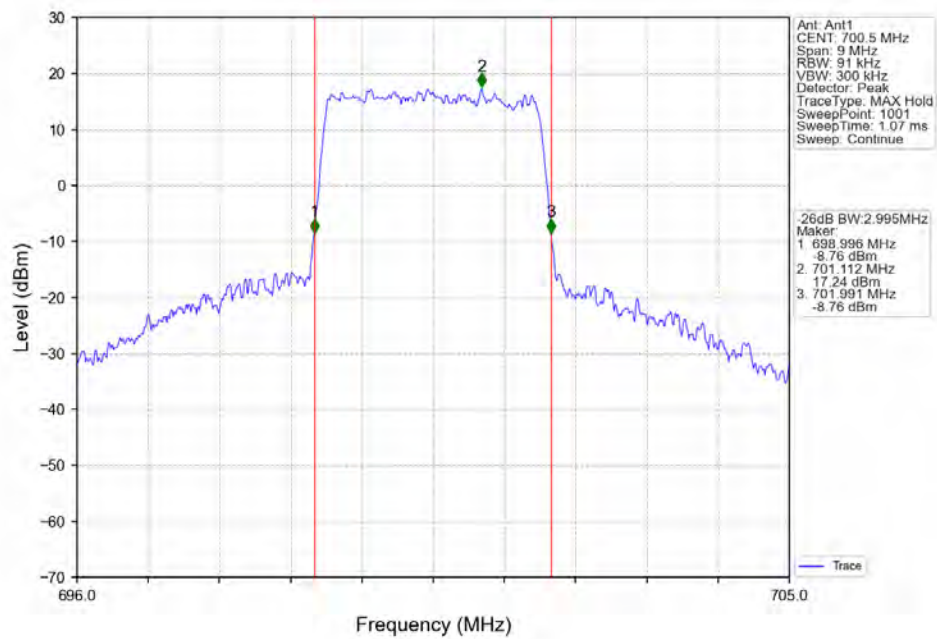
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



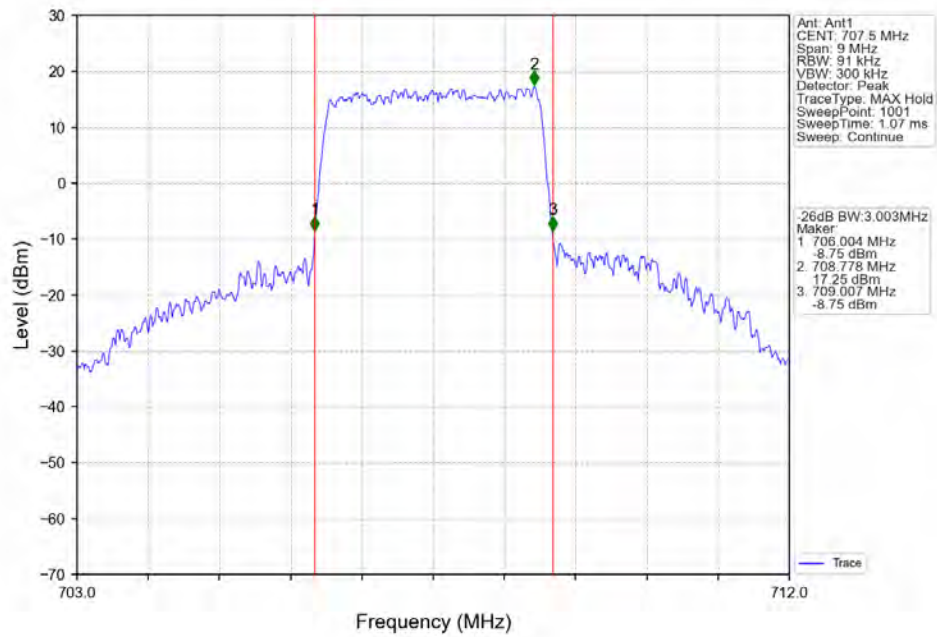
Band12 3MHz QPSK HCH 714.5MHz RB 15 0 NTNV



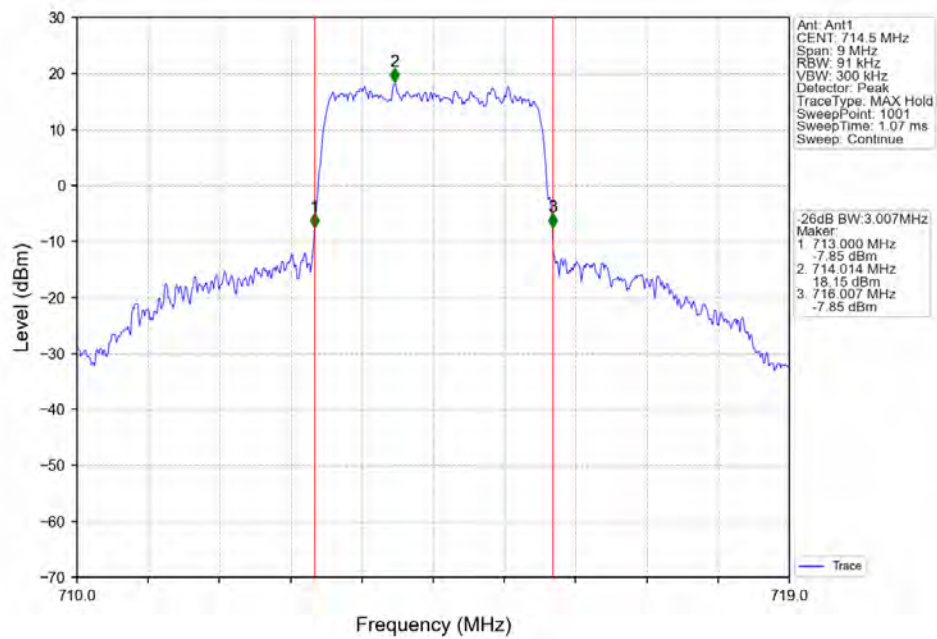
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



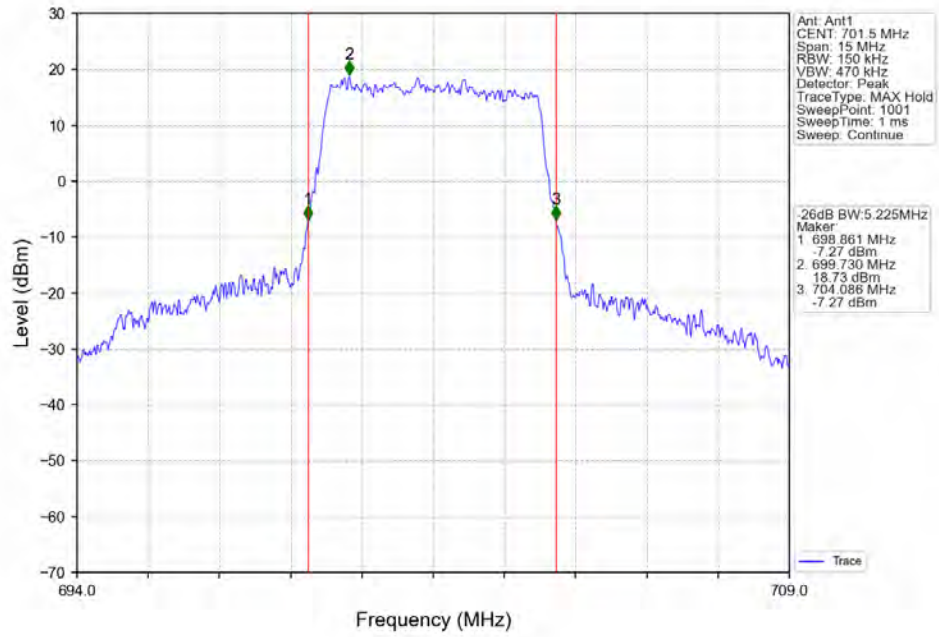
Band12 3MHz 16QAM MCH 707.5MHz RB 15 0 NTNV



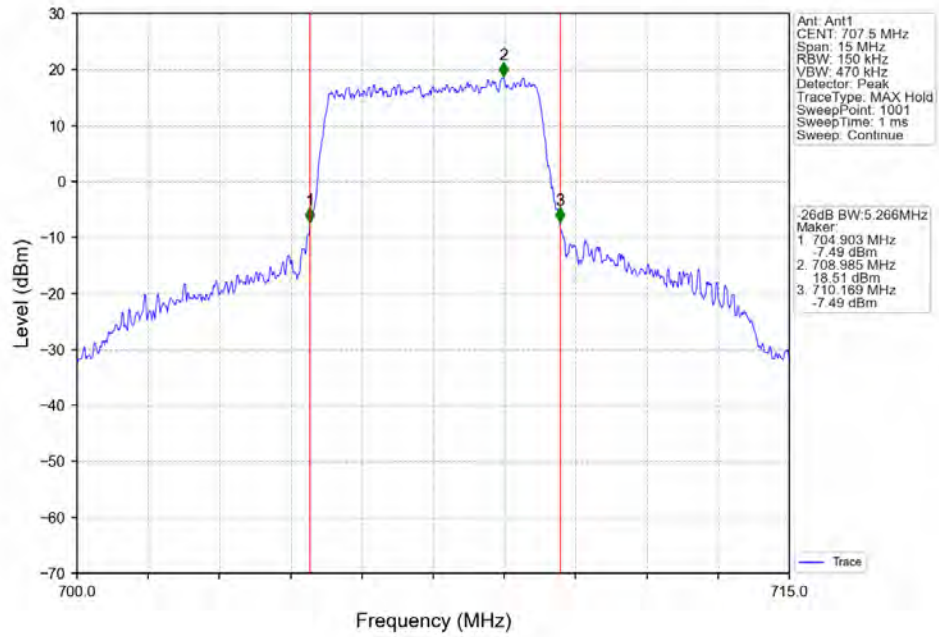
Band12 3MHz 16QAM HCH 714.5MHz RB 15 0 NTNV



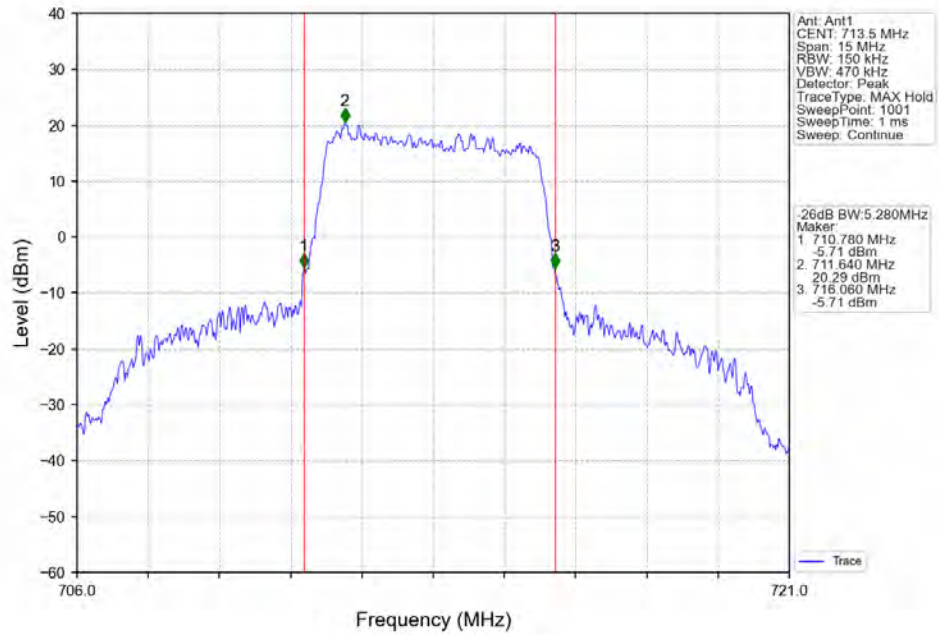
Band12 5MHz QPSK LCH 701.5MHz RB 25 0 NTNV



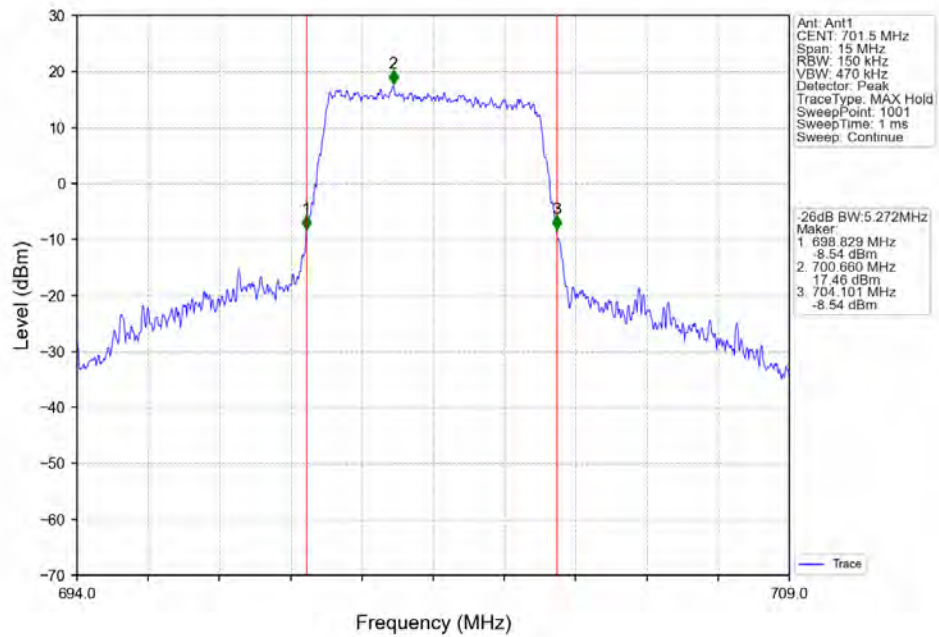
Band12 5MHz QPSK MCH 707.5MHz RB 25 0 NTNV



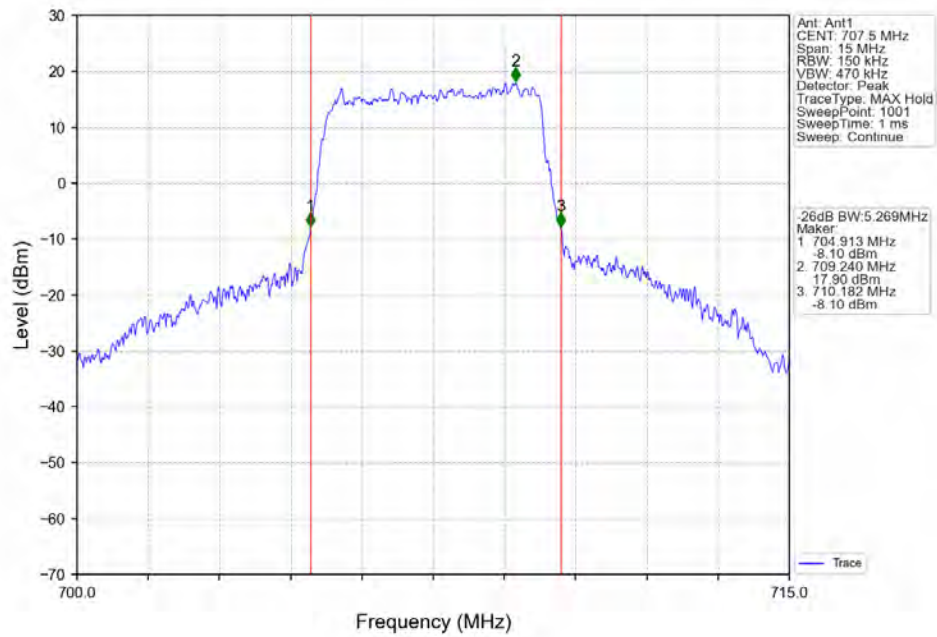
Band12 5MHz QPSK HCH 713.5MHz RB 25 0 NTNV



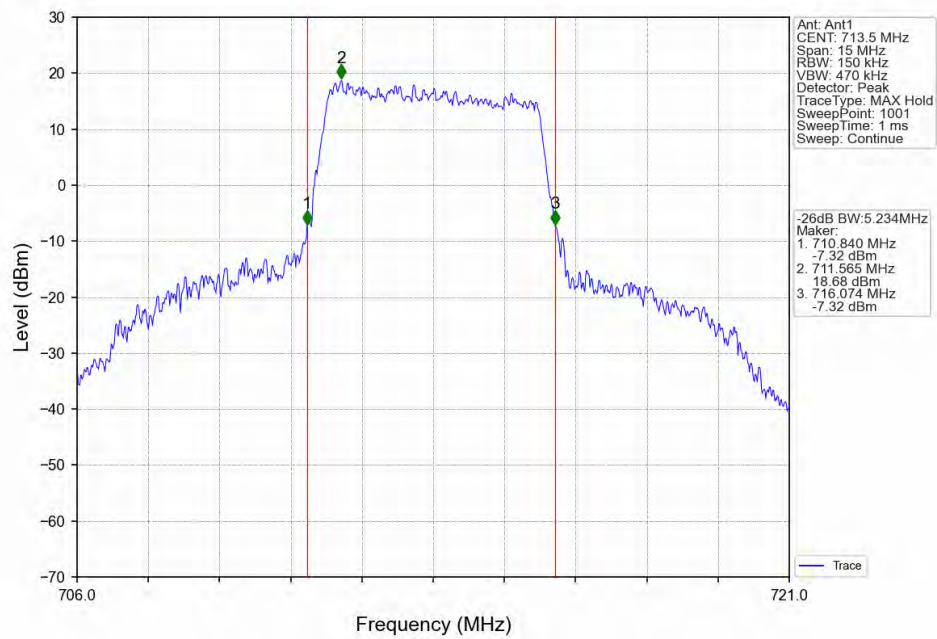
Band12 5MHz 16QAM LCH 701.5MHz RB 25 0 NTNV



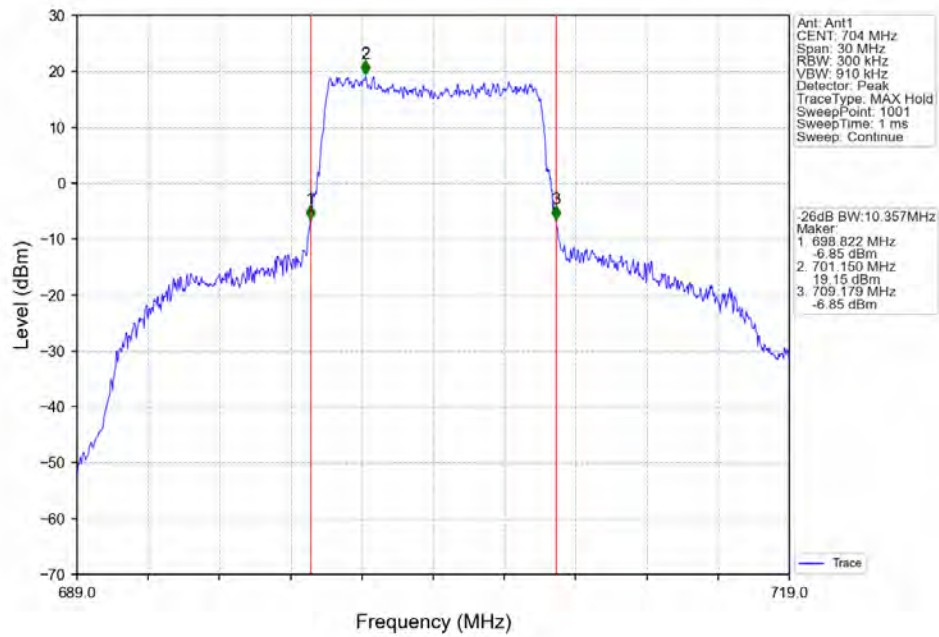
Band12 5MHz 16QAM MCH 707.5MHz RB 25 0 NTNV



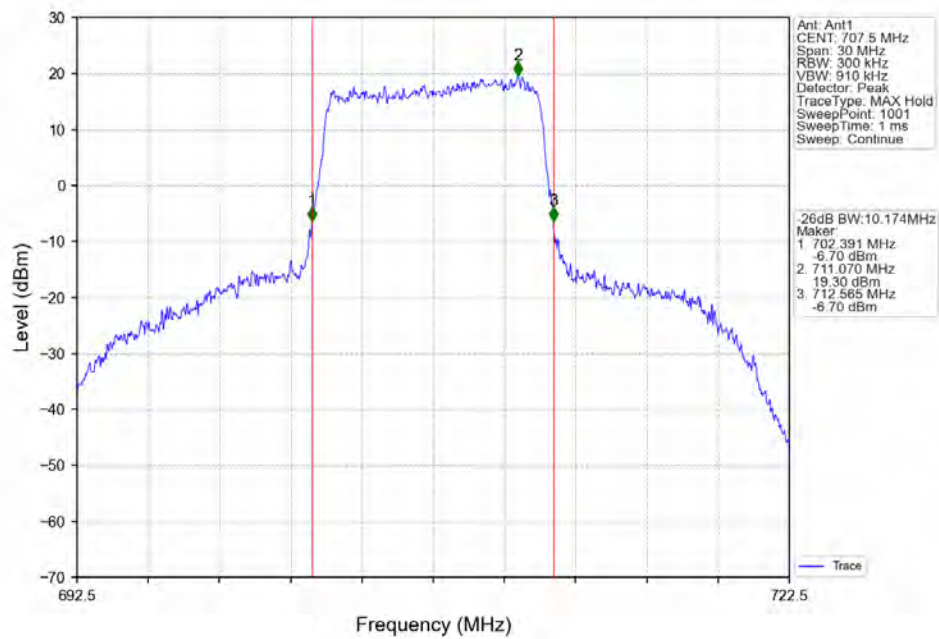
Band12 5MHz 16QAM HCH 713.5MHz RB 25 0 NTNV



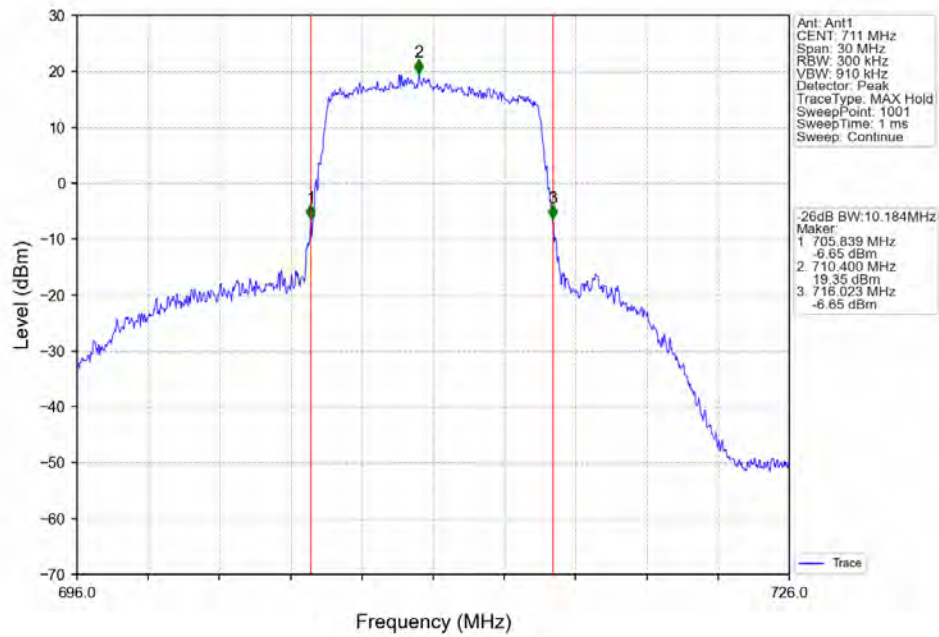
Band12 10MHz QPSK LCH 704MHz RB 50 0 NTN



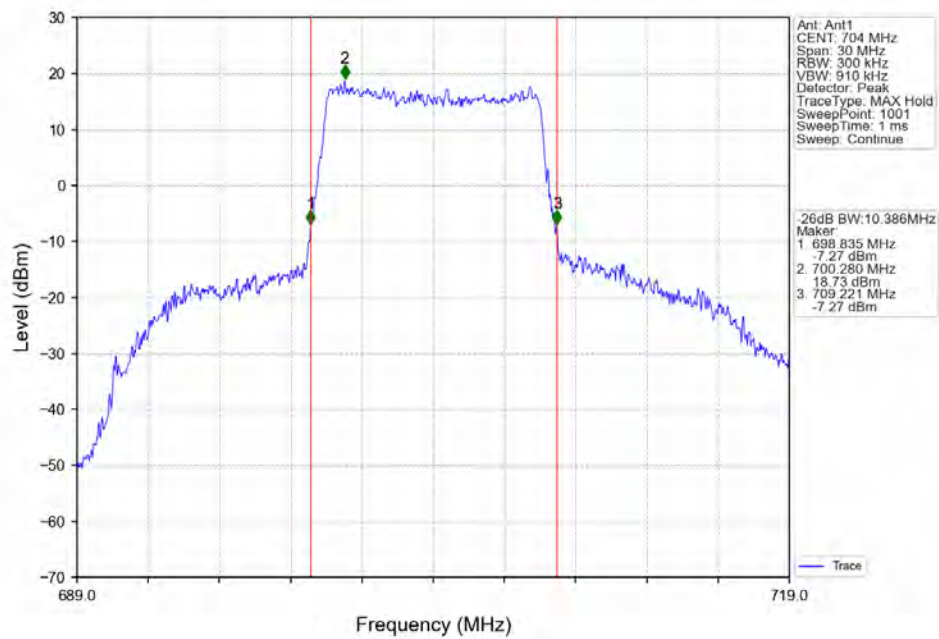
Band12 10MHz QPSK MCH 707.5MHz RB 50 0 NTN



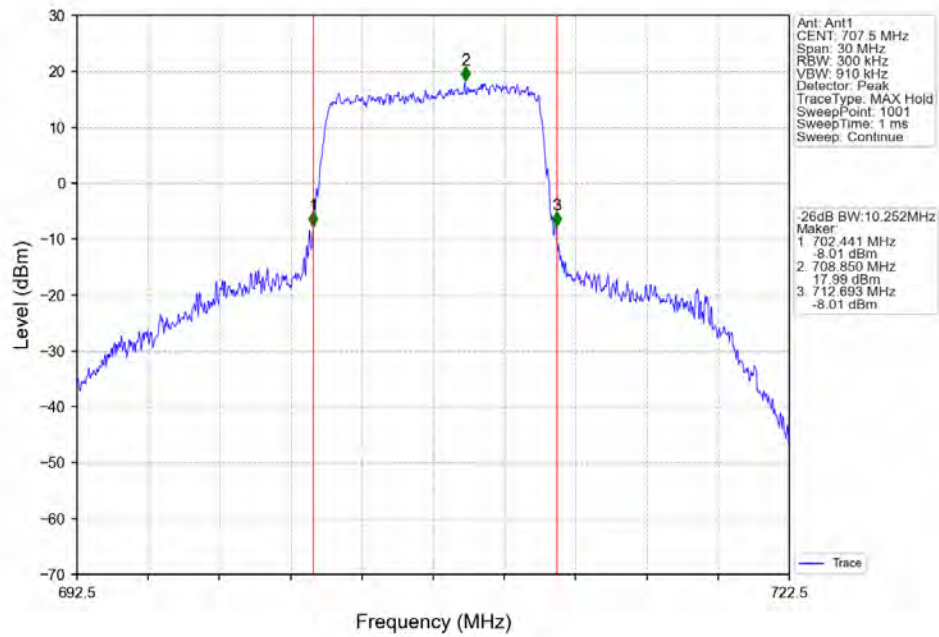
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



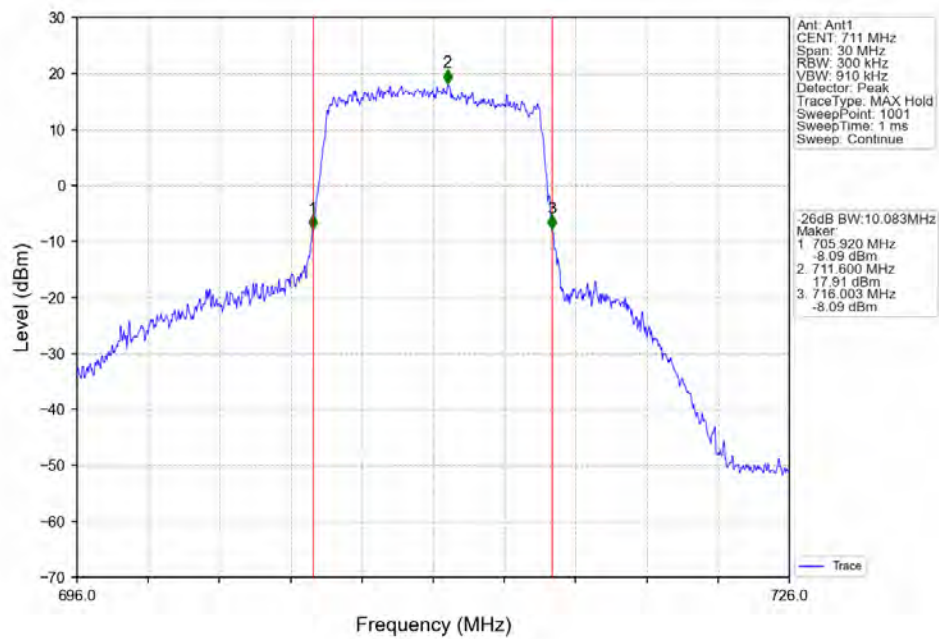
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



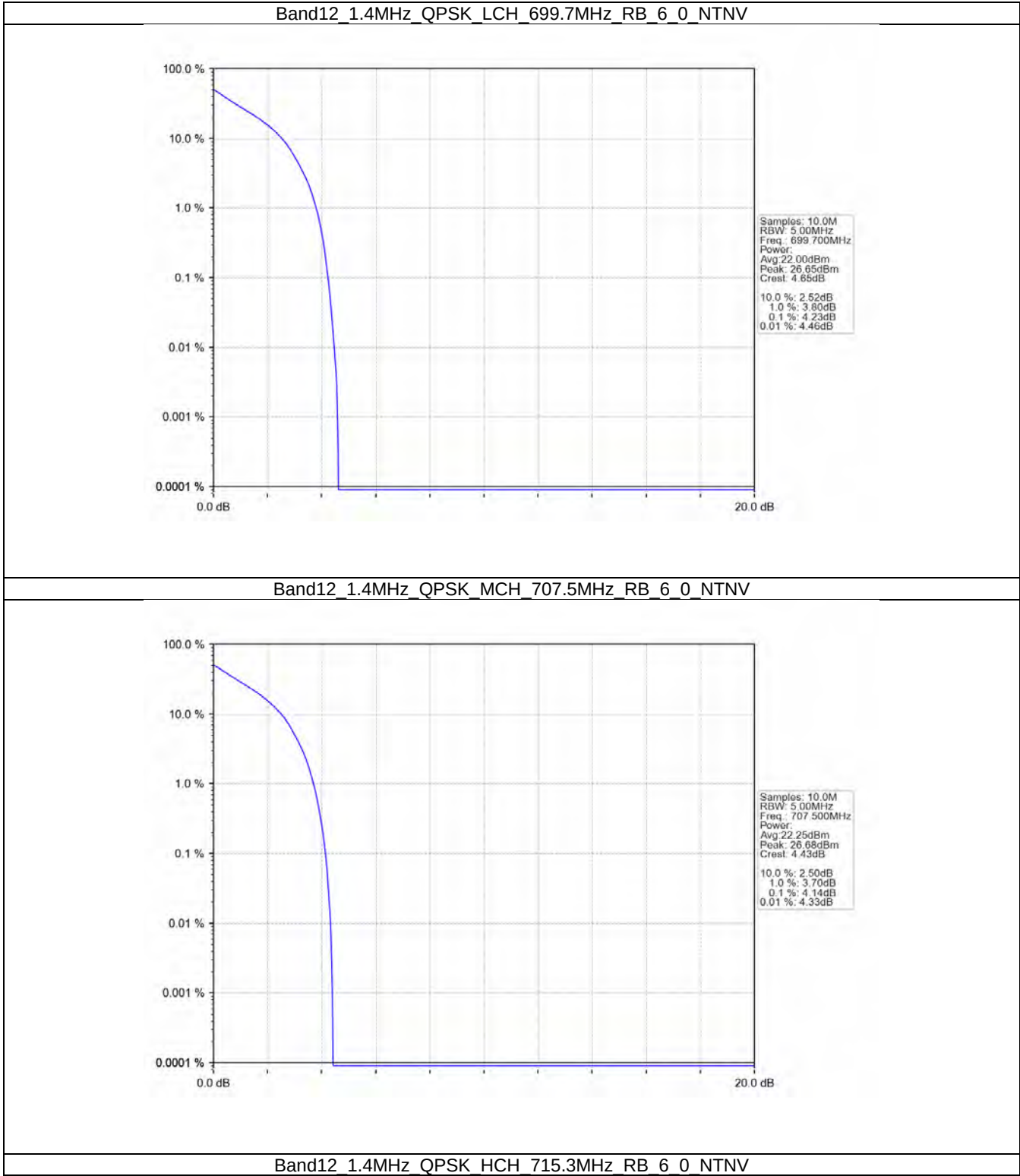
5. Peak-Average Ratio

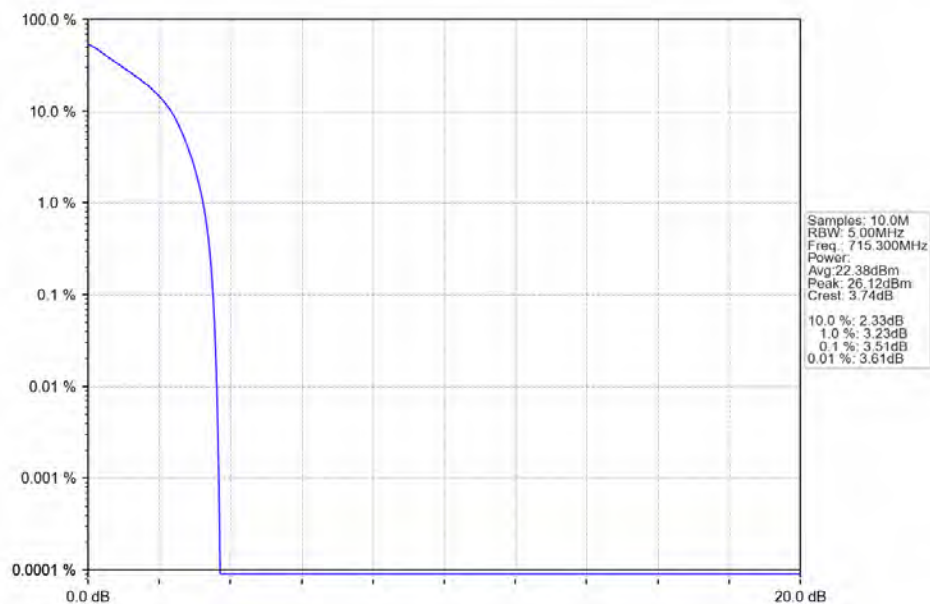
5.1 B12_1.4MHz

5.1.1 Test Result

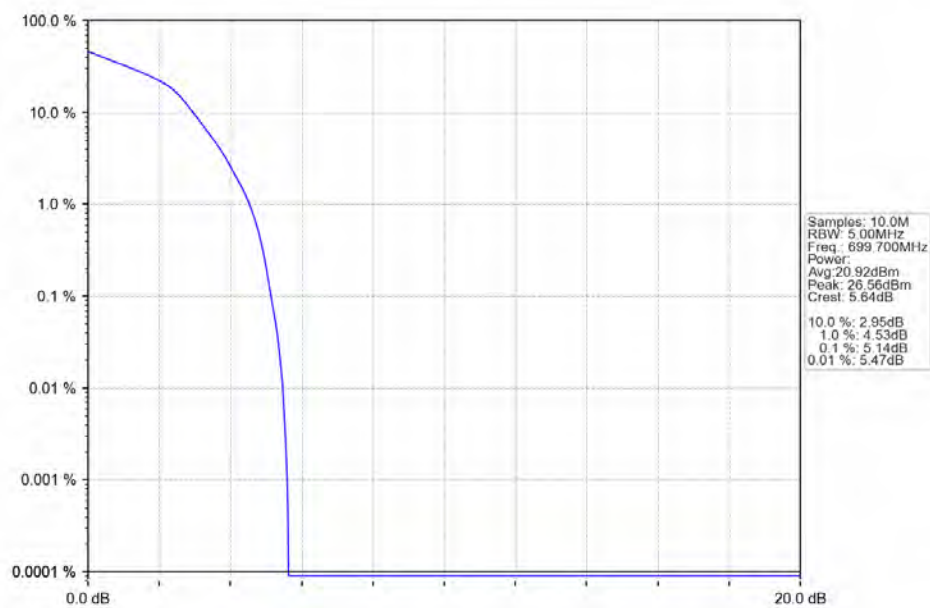
Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	6	0	4.23	<=13	Pass
	707.5	6	0	4.14	<=13	Pass
	715.3	6	0	3.51	<=13	Pass
16QAM	699.7	6	0	5.14	<=13	Pass
	707.5	6	0	5.07	<=13	Pass
	715.3	6	0	4.63	<=13	Pass

5.1.2 Test Graph

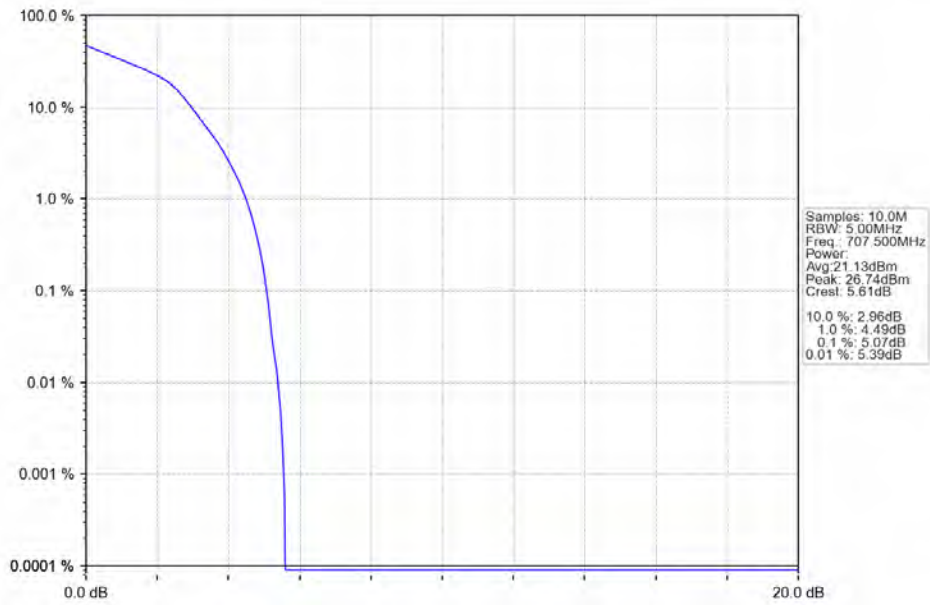




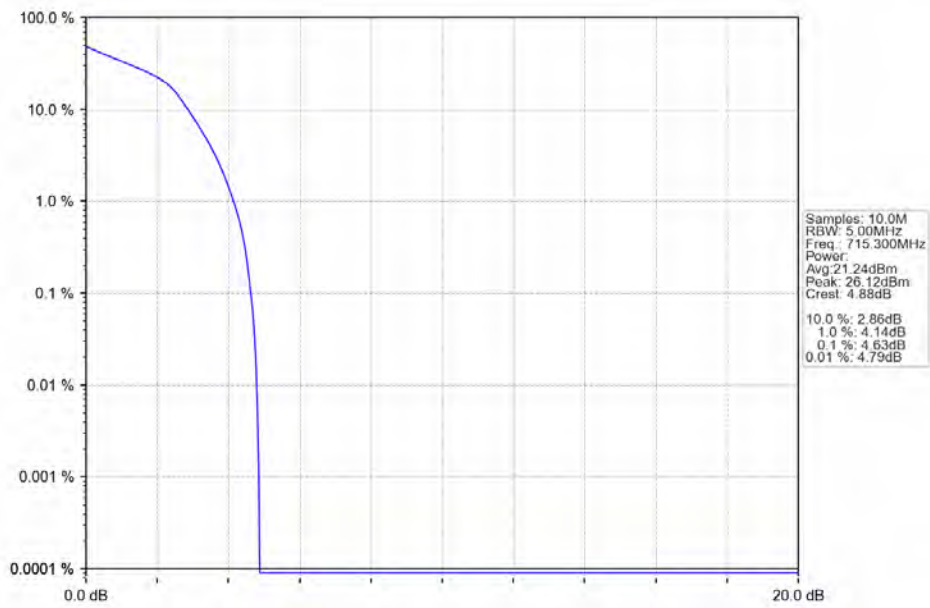
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



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



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

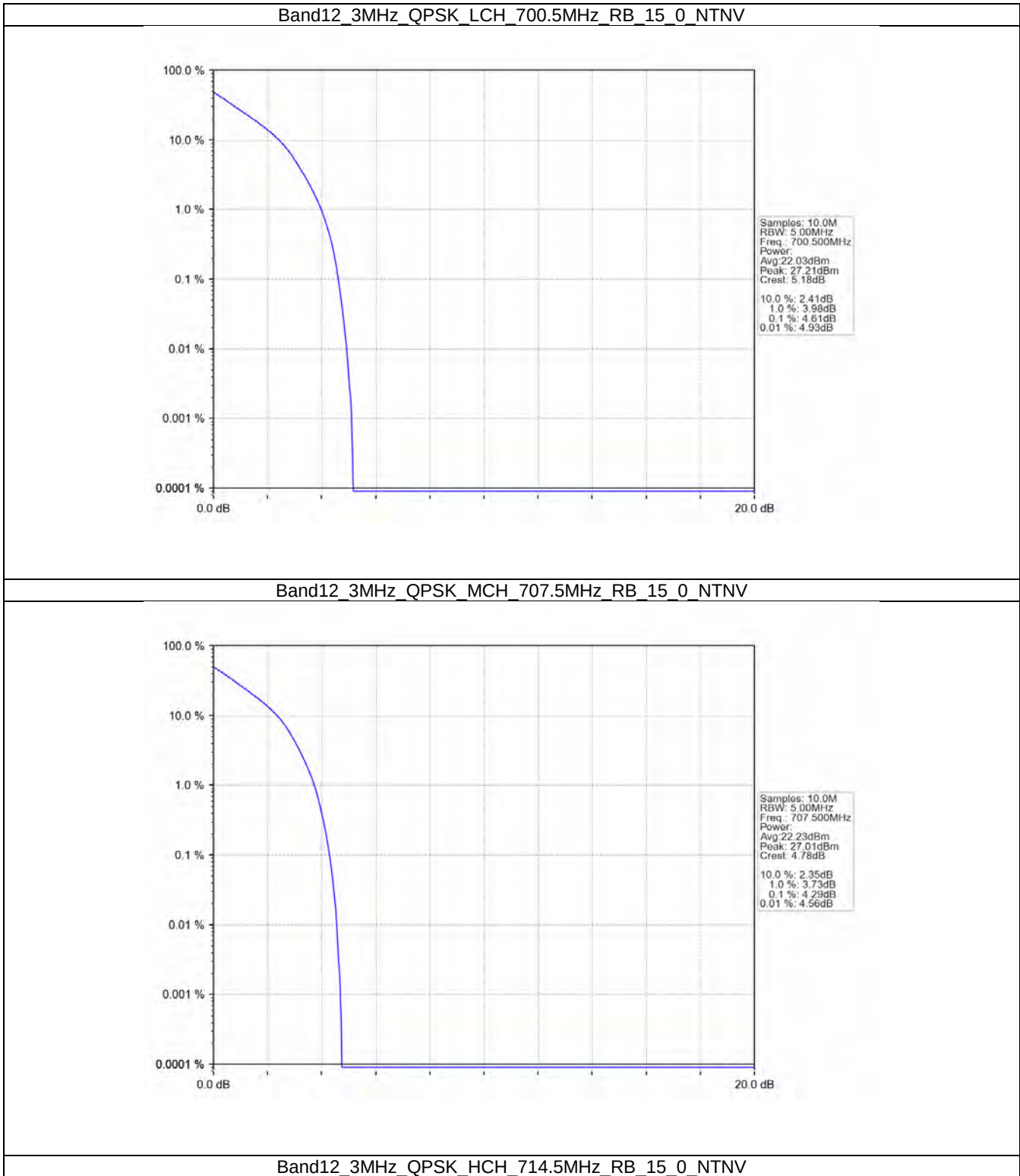


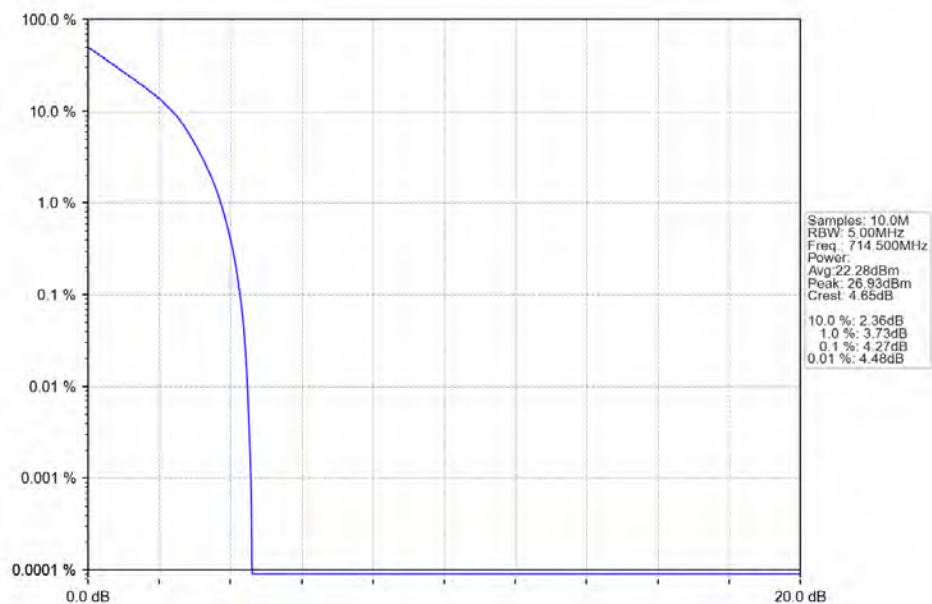
5.2 B12_3MHz

5.2.1 Test Result

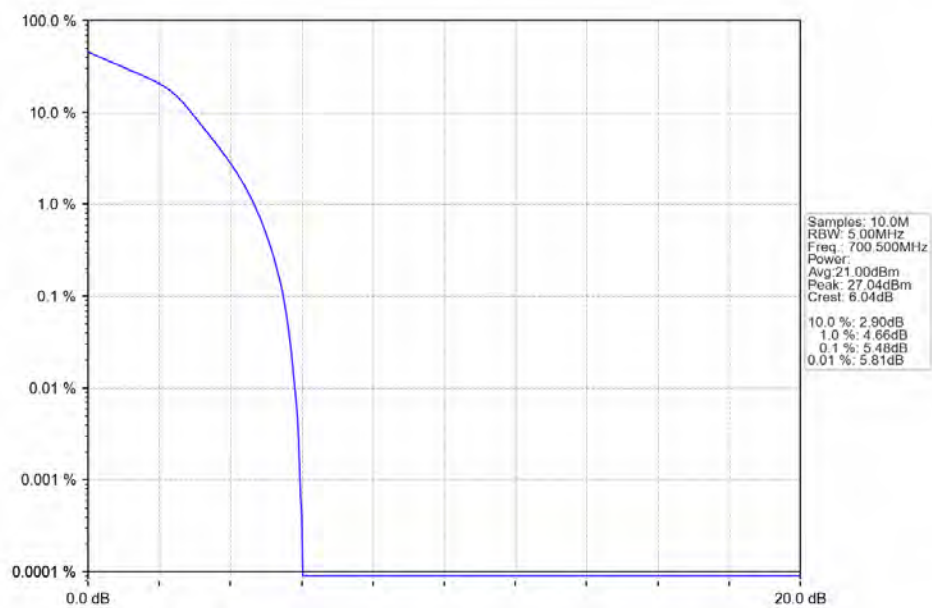
Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	4.61	<=13	Pass
	707.5	15	0	4.29	<=13	Pass
	714.5	15	0	4.27	<=13	Pass
16QAM	700.5	15	0	5.48	<=13	Pass
	707.5	15	0	5.22	<=13	Pass
	714.5	15	0	5.21	<=13	Pass

5.2.2 Test Graph

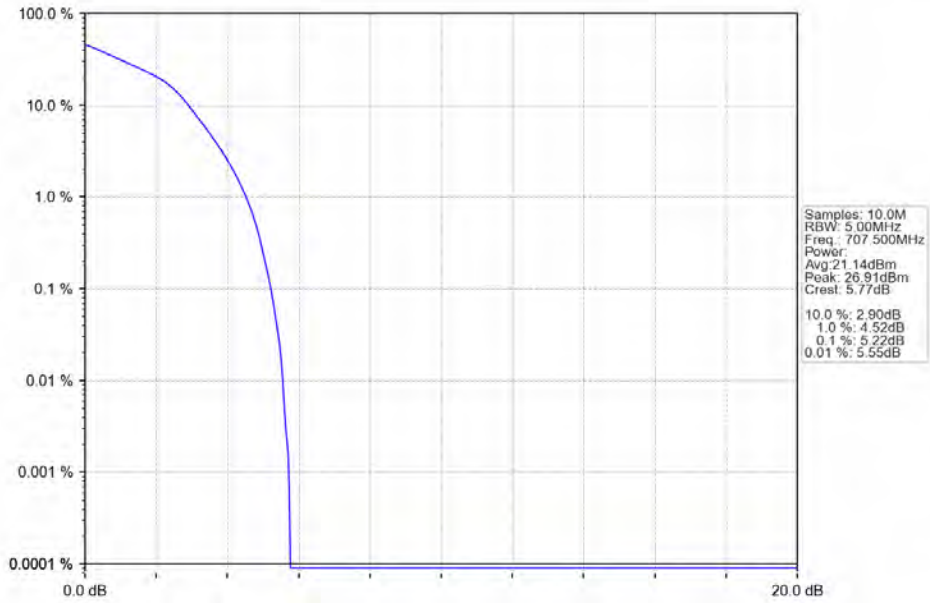




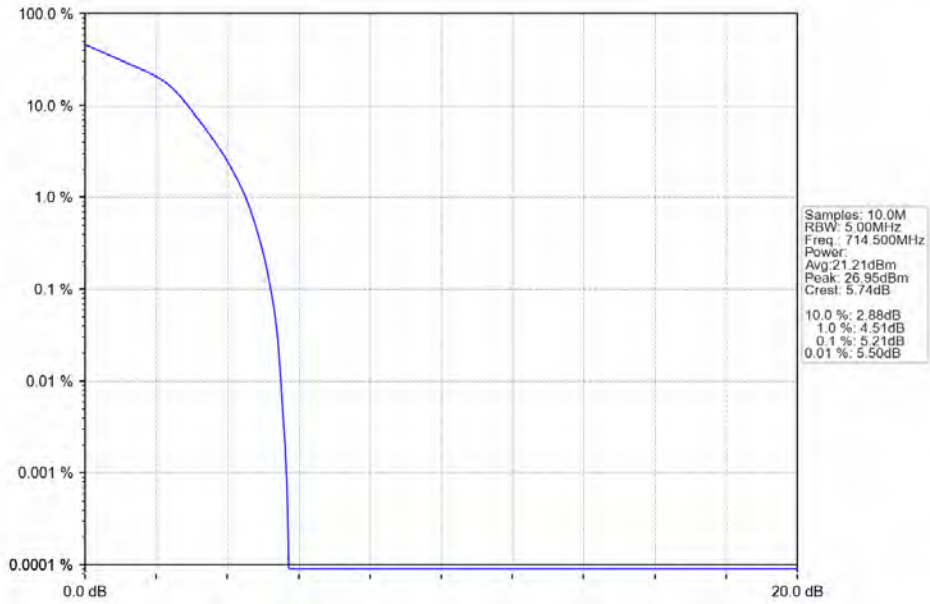
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



Band12 3MHz 16QAM MCH 707.5MHz RB 15 0 NTNV



Band12 3MHz 16QAM HCH 714.5MHz RB 15 0 NTNV

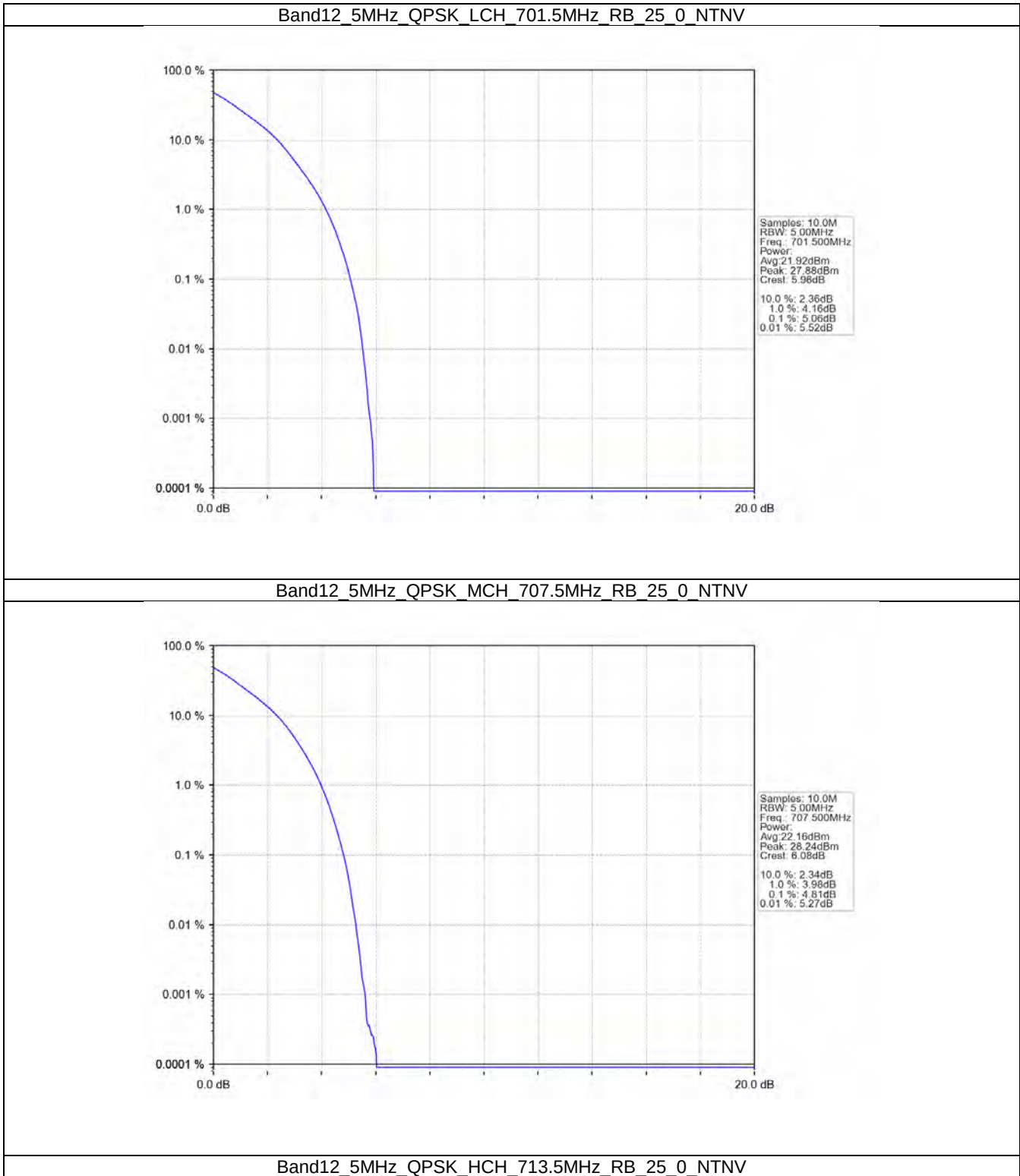


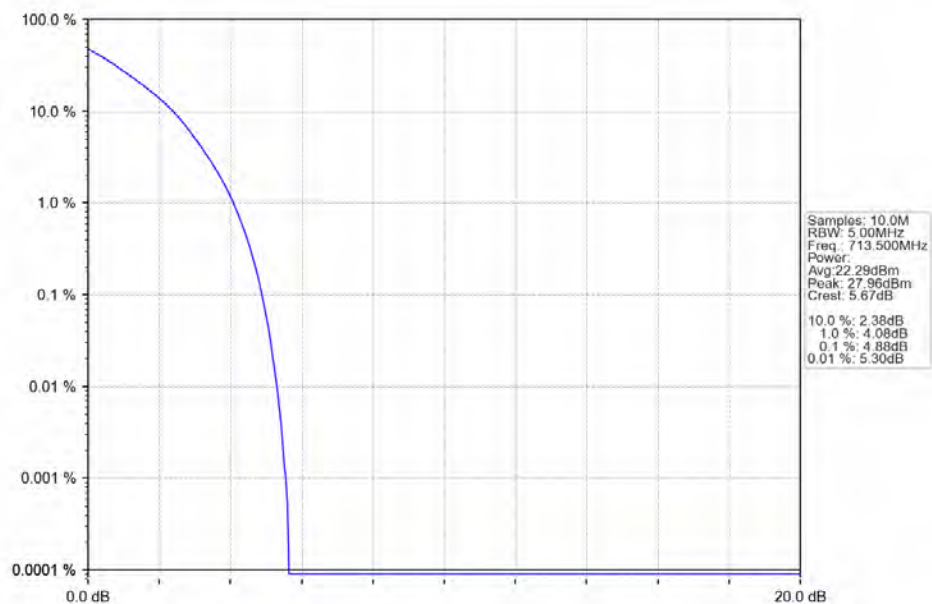
5.3 B12_5MHz

5.3.1 Test Result

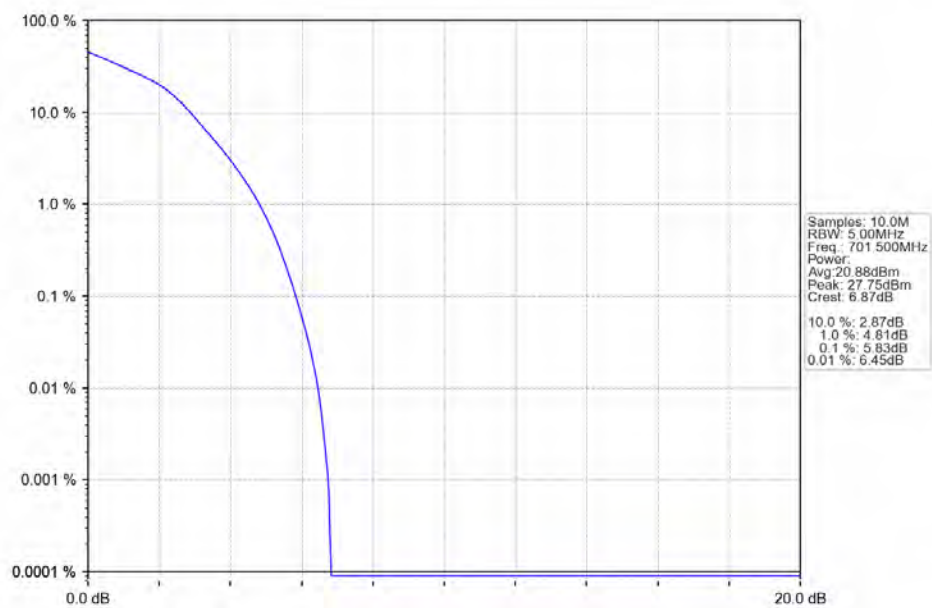
Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	5.06	<=13	Pass
	707.5	25	0	4.81	<=13	Pass
	713.5	25	0	4.88	<=13	Pass
16QAM	701.5	25	0	5.83	<=13	Pass
	707.5	25	0	5.55	<=13	Pass
	713.5	25	0	5.68	<=13	Pass

5.3.2 Test Graph

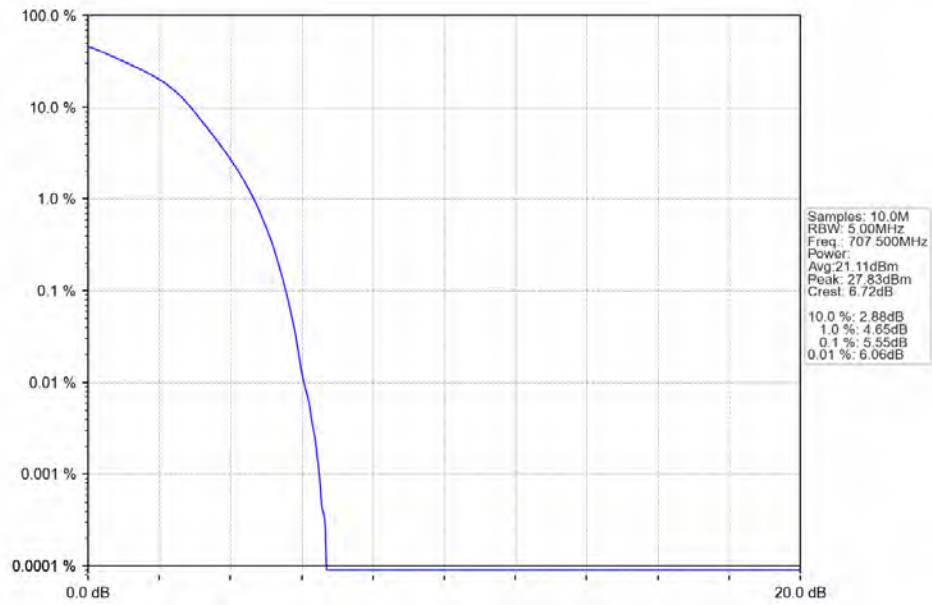




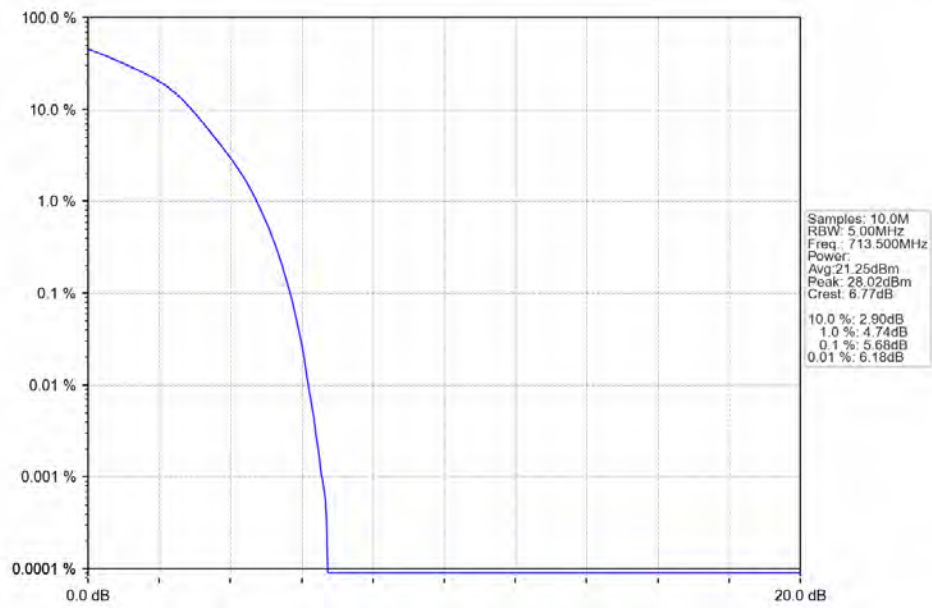
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



Band12 5MHz 16QAM MCH 707.5MHz RB 25 0 NTNV



Band12 5MHz 16QAM HCH 713.5MHz RB 25 0 NTNV

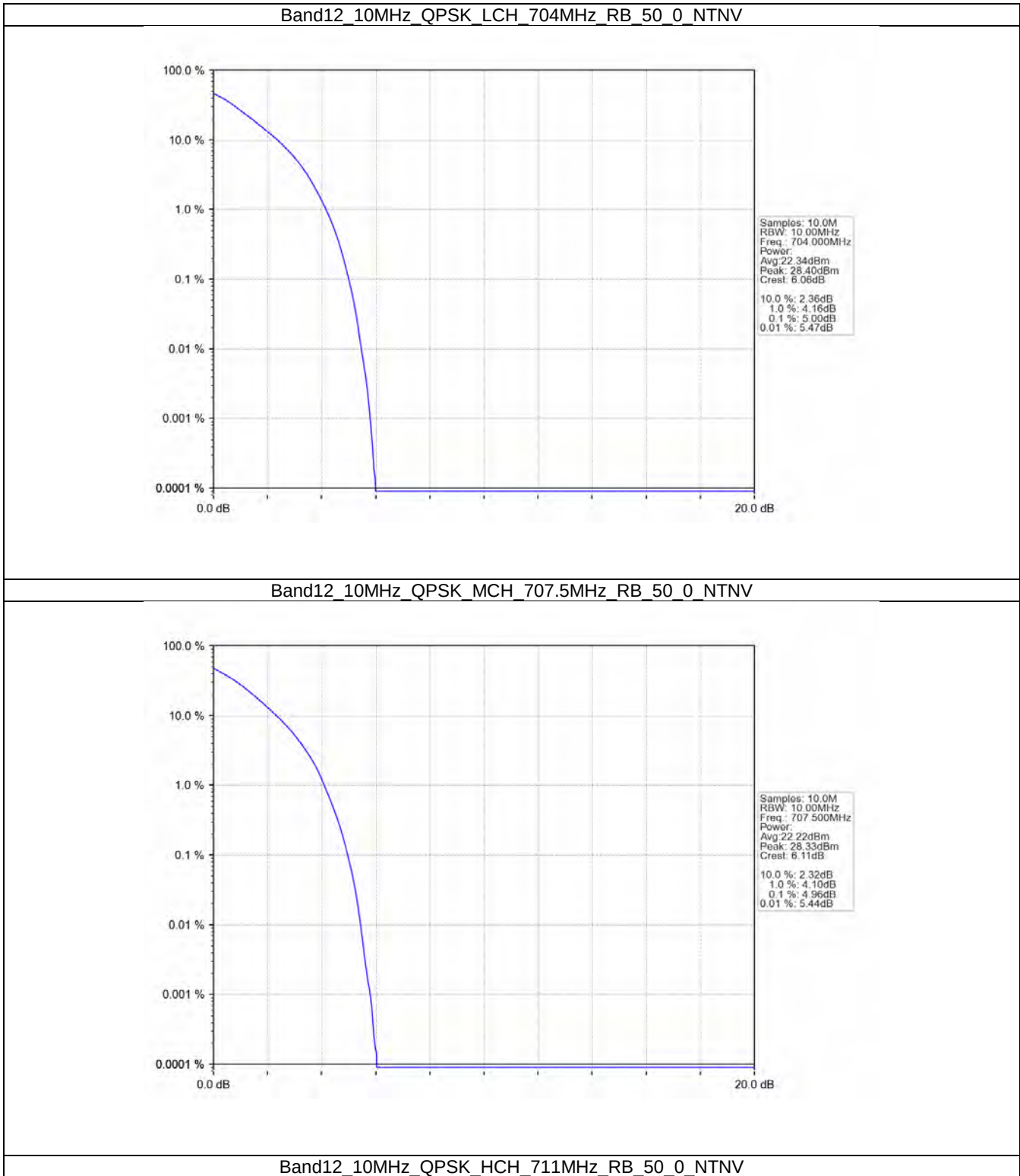


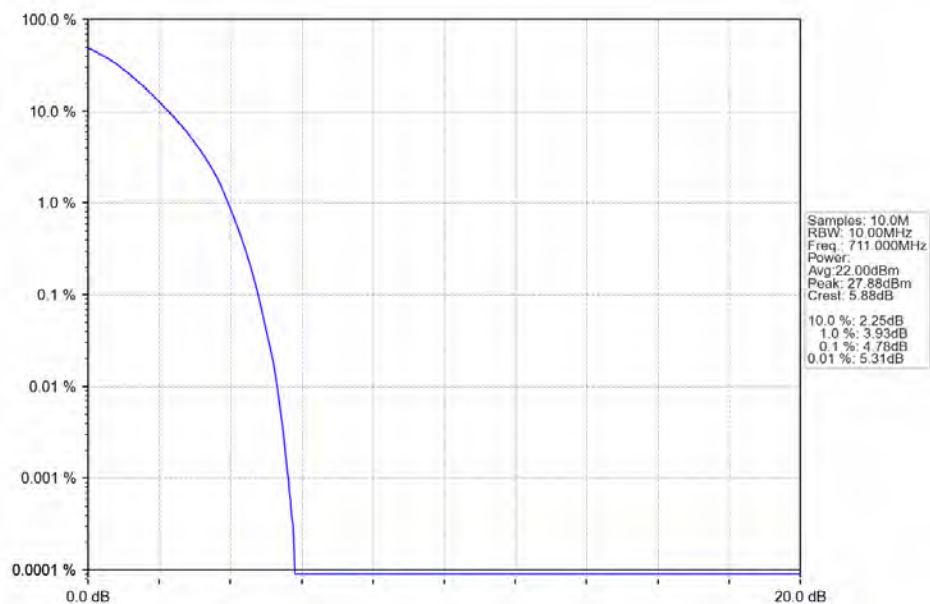
5.4 B12_10MHz

5.4.1 Test Result

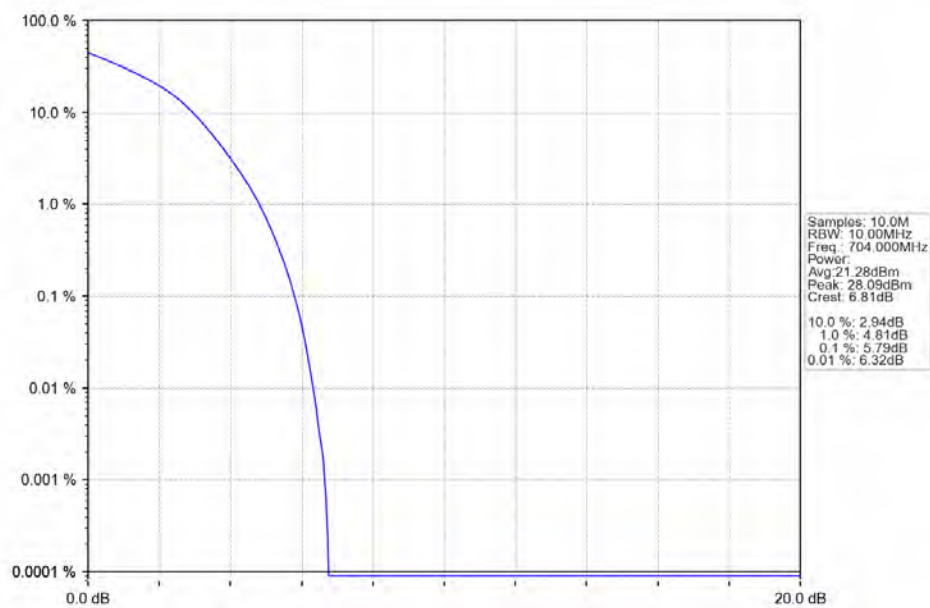
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	5.00	<=13	Pass
	707.5	50	0	4.96	<=13	Pass
	711	50	0	4.78	<=13	Pass
16QAM	704	50	0	5.79	<=13	Pass
	707.5	50	0	5.73	<=13	Pass
	711	50	0	5.61	<=13	Pass

5.4.2 Test Graph

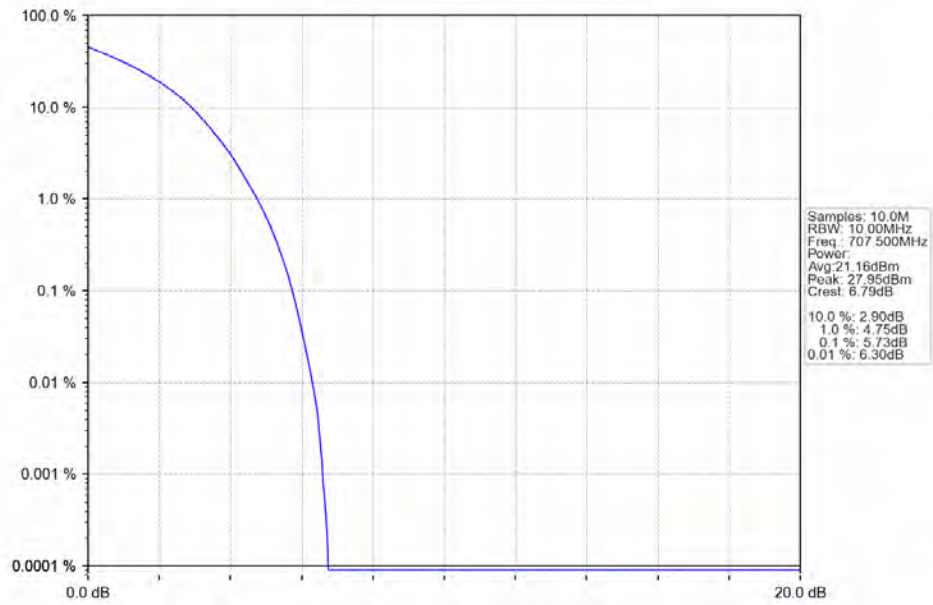




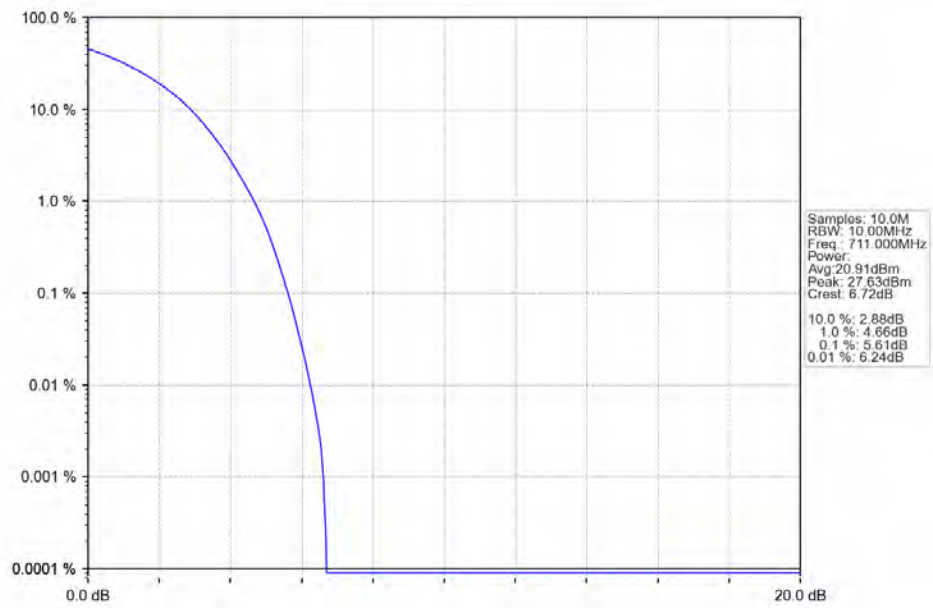
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



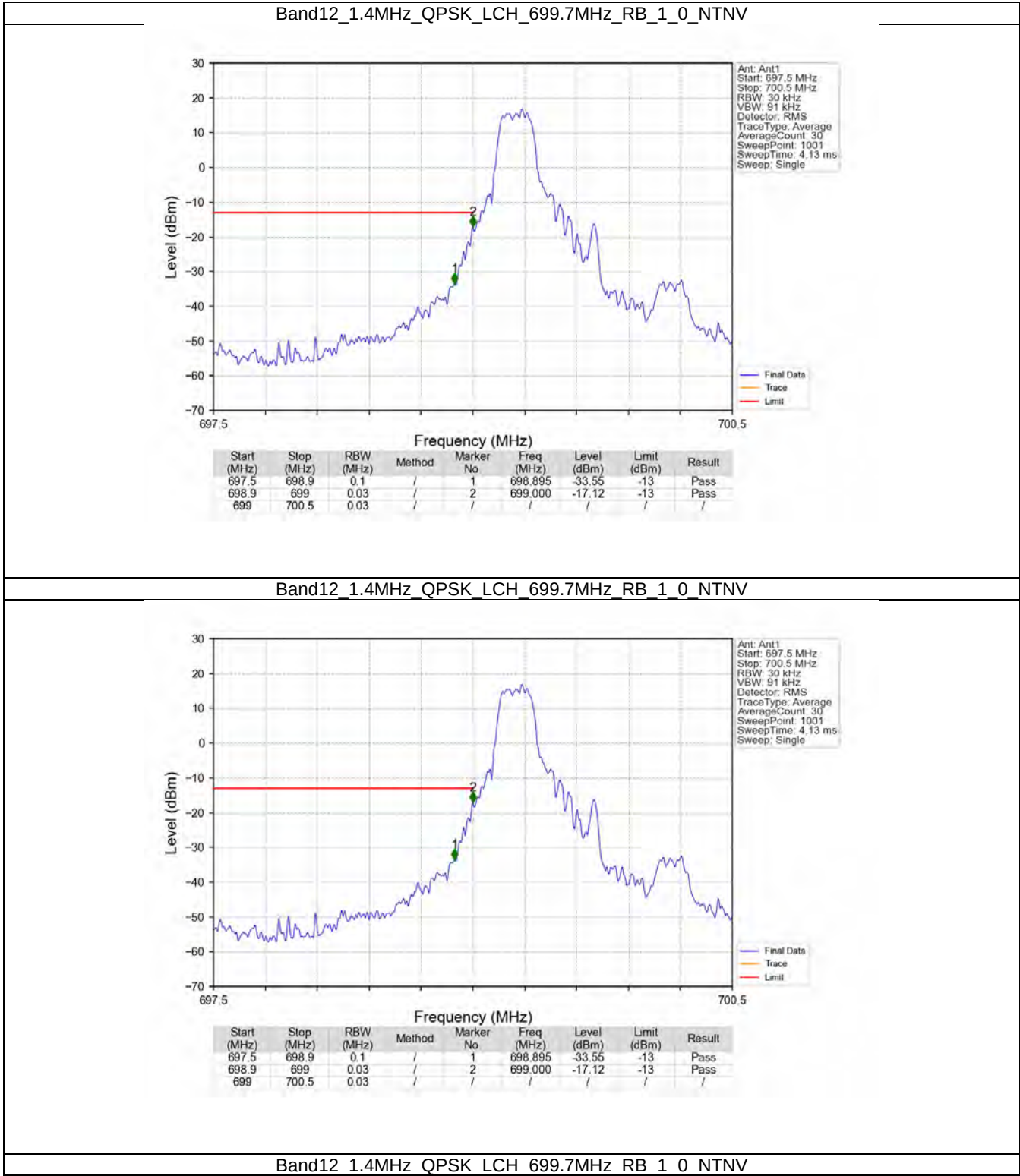
6. Spurious Emission

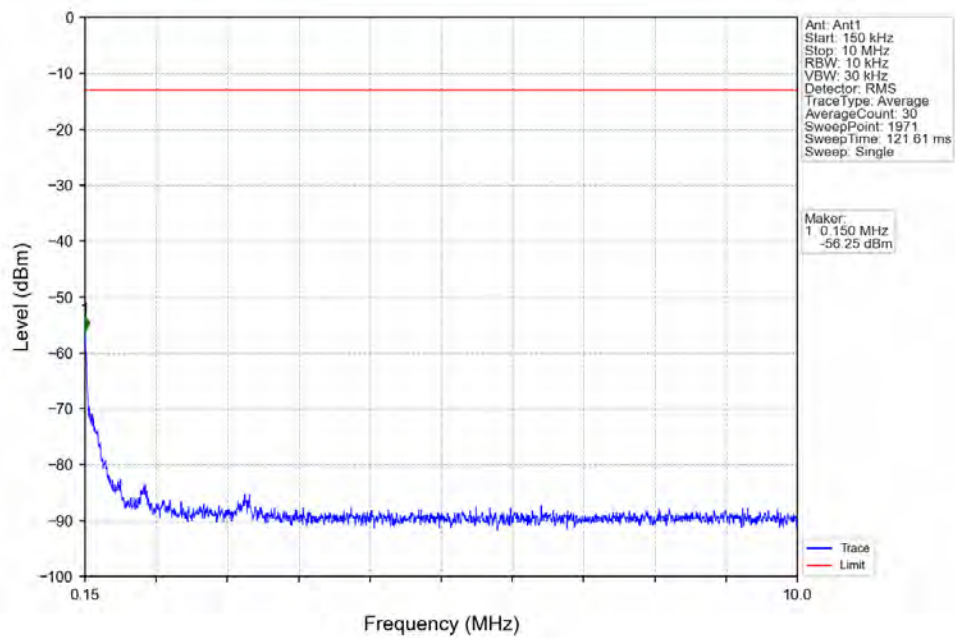
6.1 B12_1.4MHz

6.1.1 Test Result

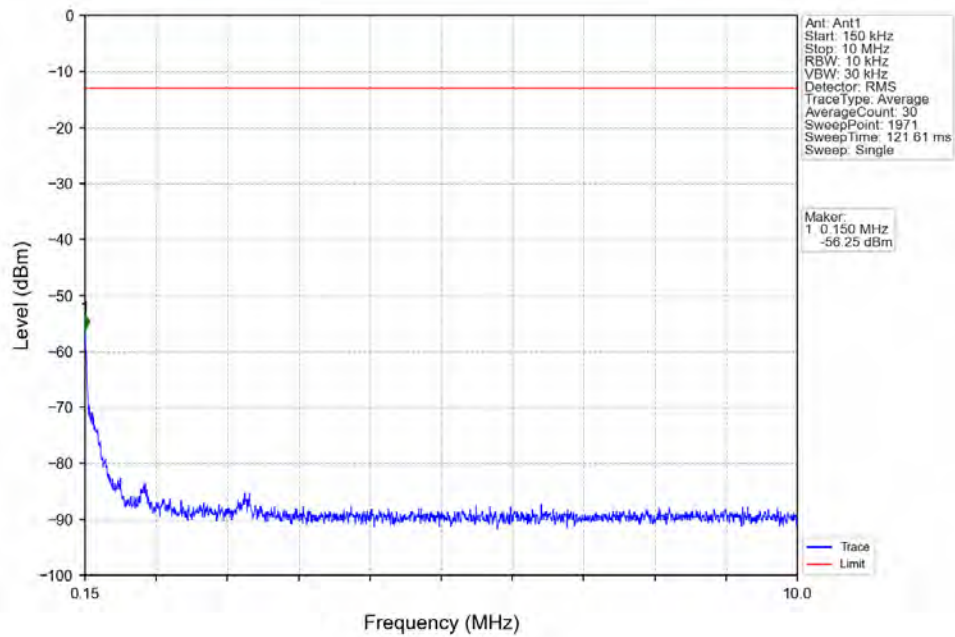
Band: 12 / Bandwidth: 1.4MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	699.7	1	0	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass
	707.5	1	0	Refer To Test Graph	Pass
	715.3	1	0	Refer To Test Graph	Pass
			5	Refer To Test Graph	Pass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

6.1.2 Test Graph

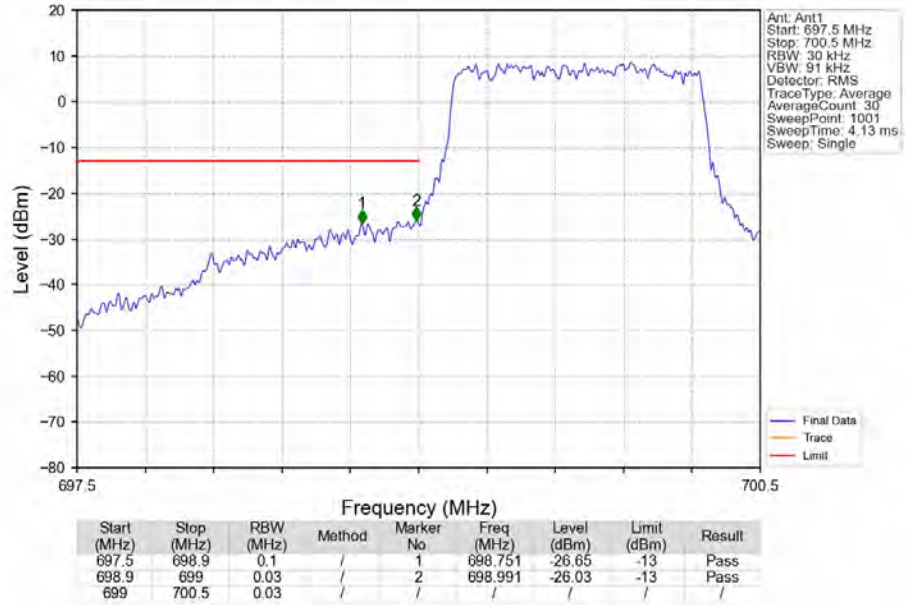




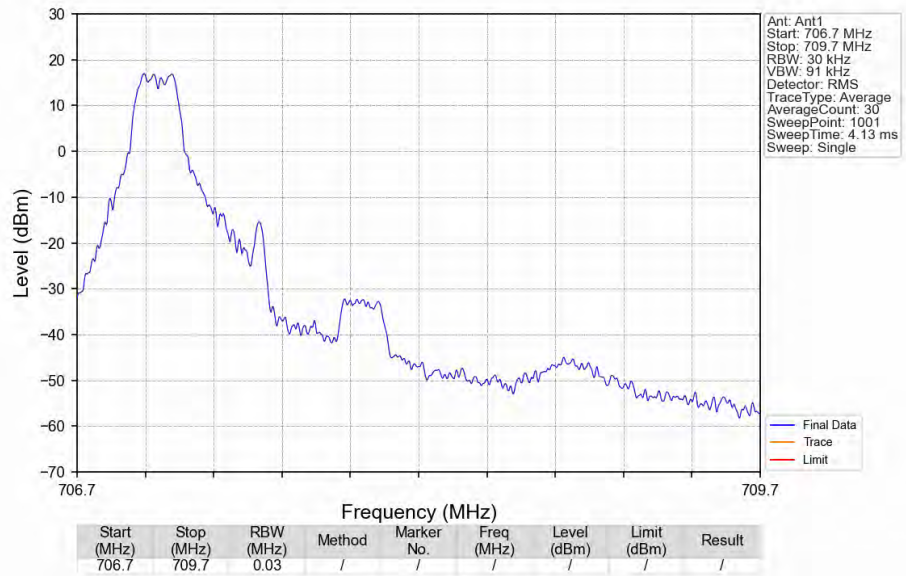
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV



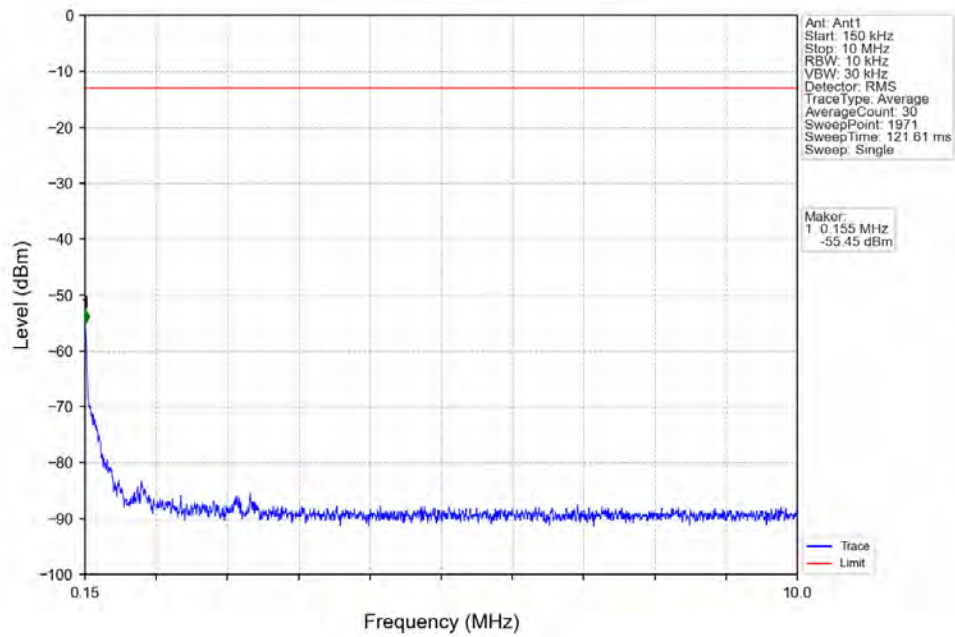
Band12 1.4MHz QPSK LCH 699.7MHz RB 6 0 NTNV



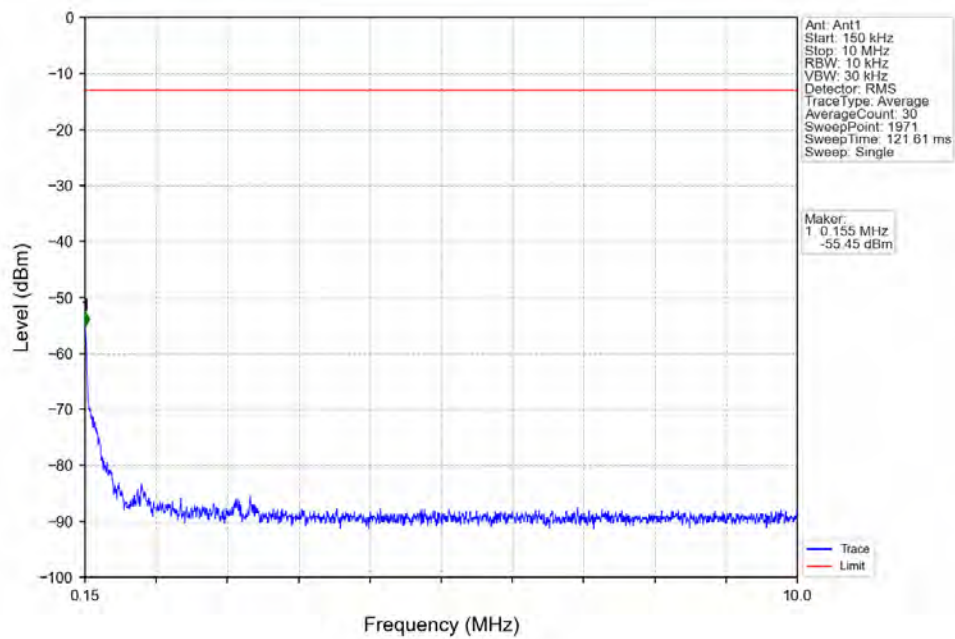
Band12 1.4MHz QPSK MCH 707.5MHz RB 1 0 NTNV



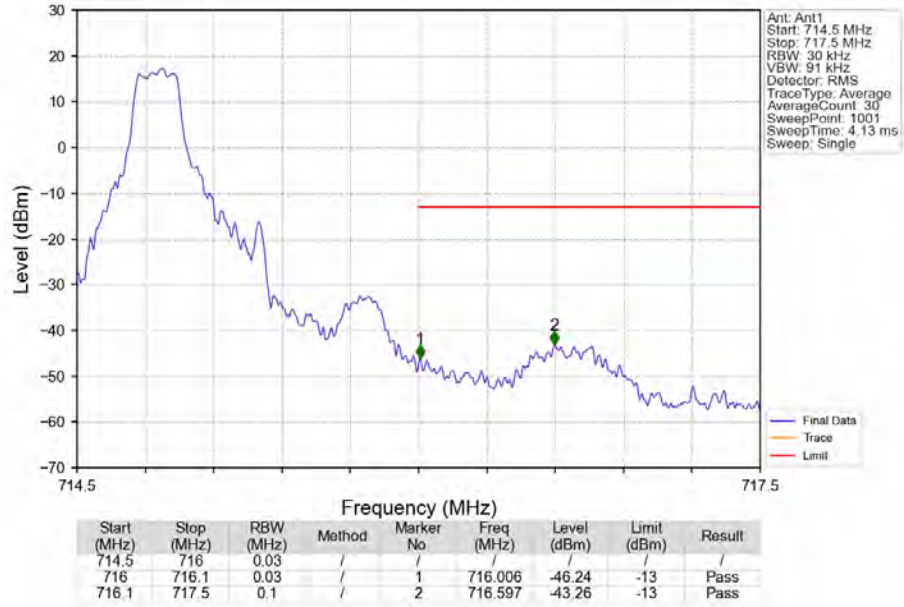
Band12 1.4MHz QPSK MCH 707.5MHz RB 1 0 NTNV



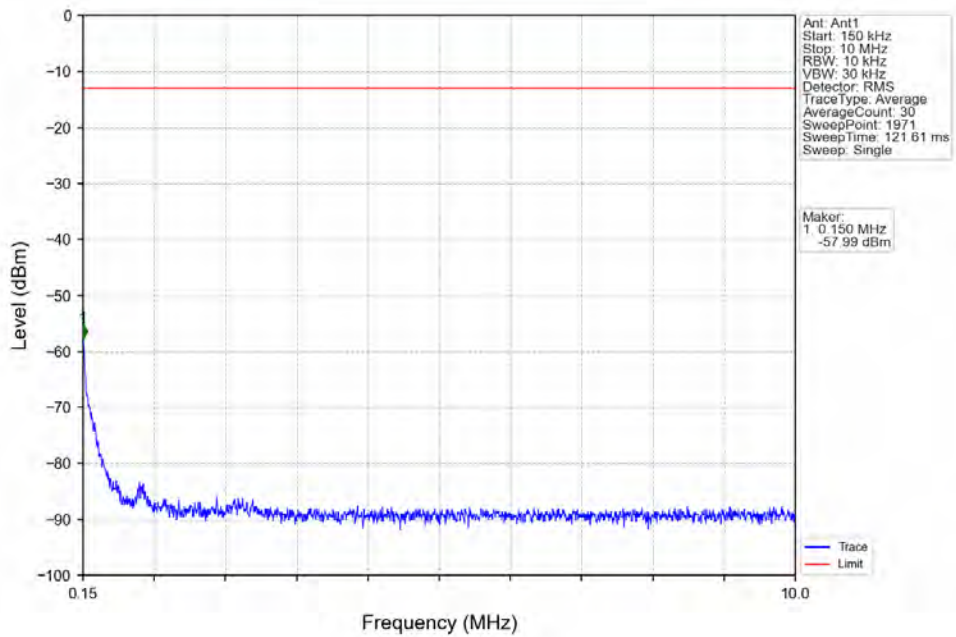
Band12 1.4MHz QPSK MCH 707.5MHz RB 1 0 NTNV



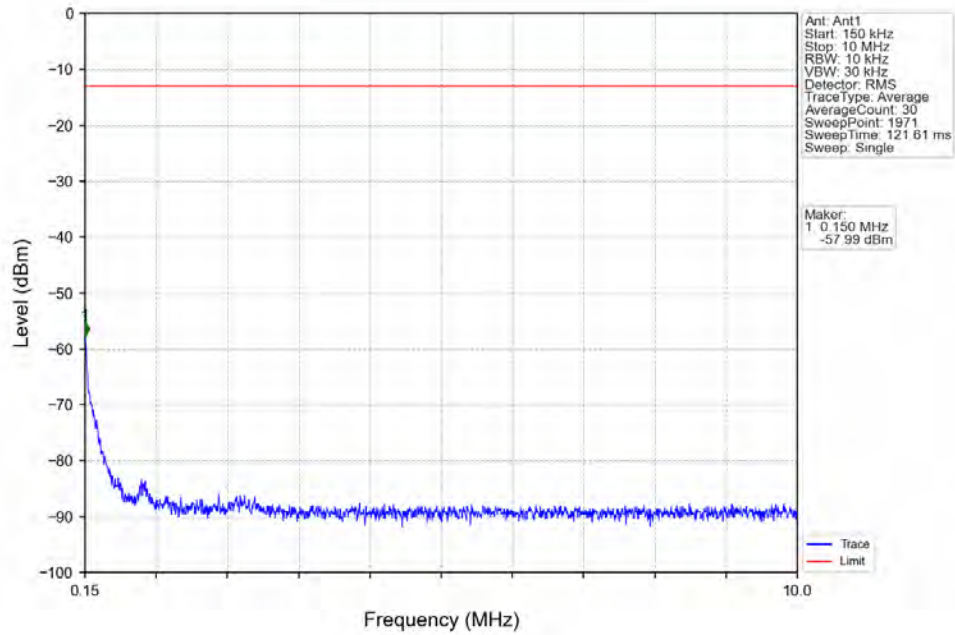
Band12 1.4MHz QPSK HCH 715.3MHz RB 1 0 NTNV



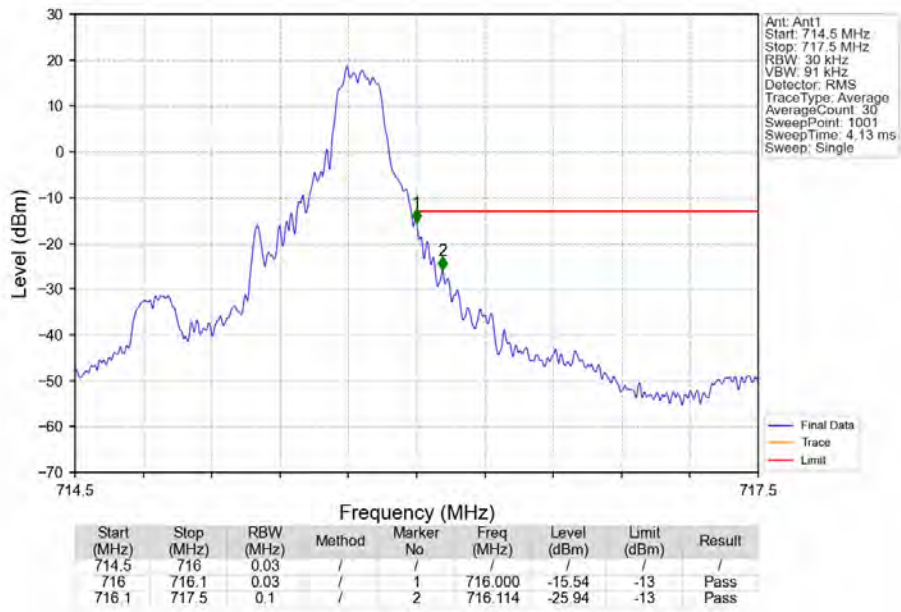
Band12 1.4MHz QPSK HCH 715.3MHz RB 1 0 NTNV



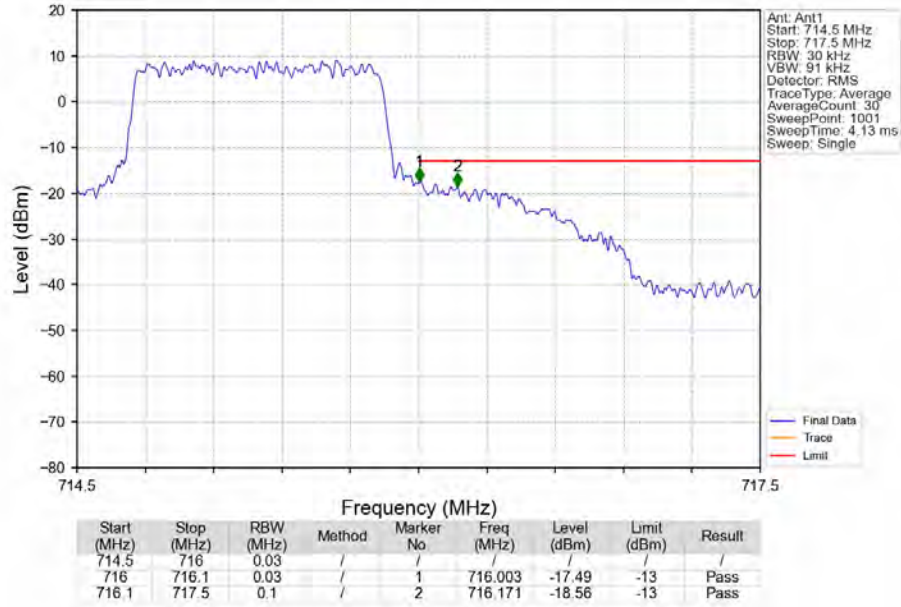
Band12 1.4MHz QPSK HCH 715.3MHz RB 1 0 NTNV



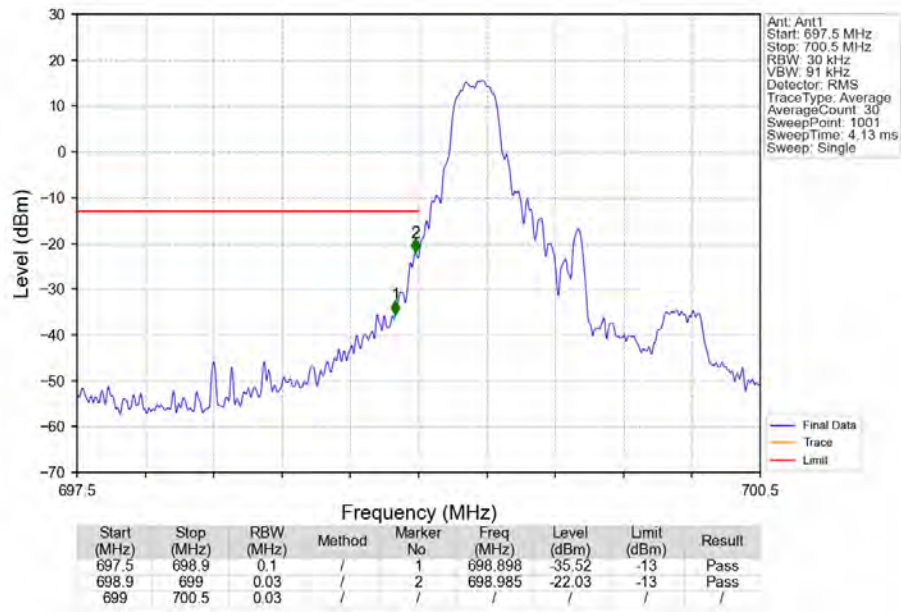
Band12 1.4MHz QPSK HCH 715.3MHz RB 1 5 NTNV



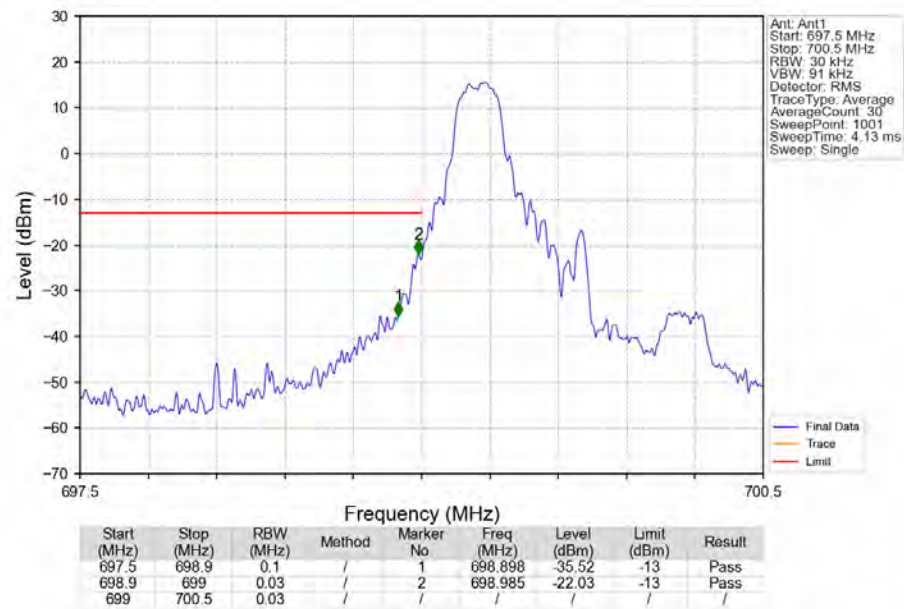
Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTNV



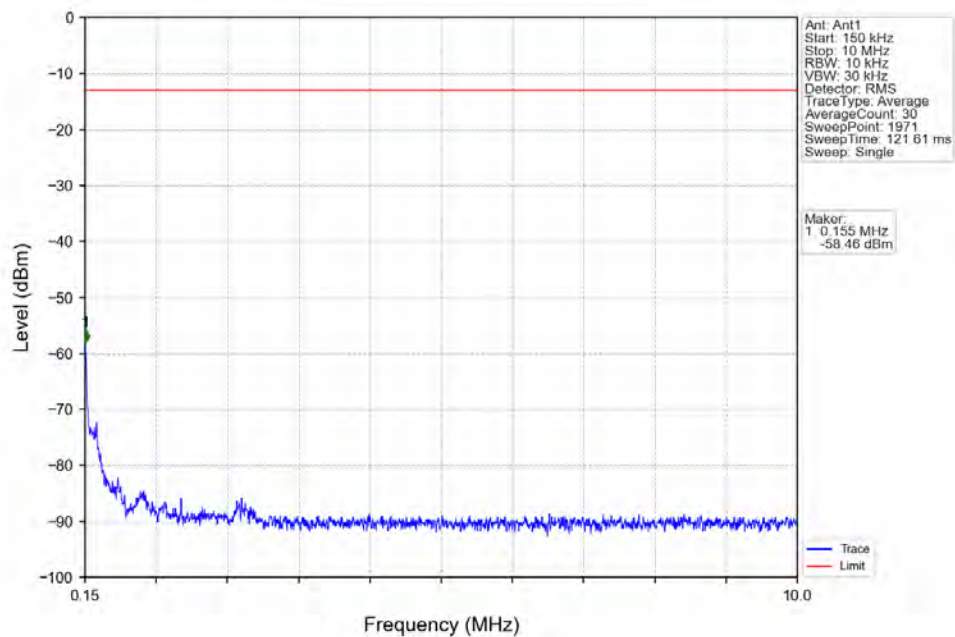
Band12 1.4MHz 16QAM LCH 699.7MHz RB 1 0 NTNV



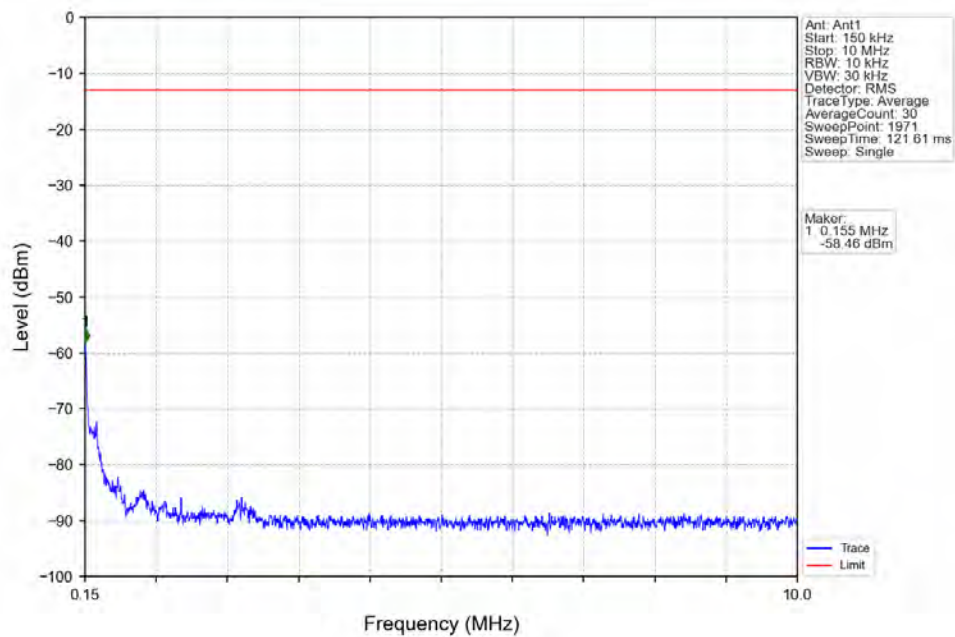
Band12 1.4MHz 16QAM LCH 699.7MHz RB 1 0 NTNV



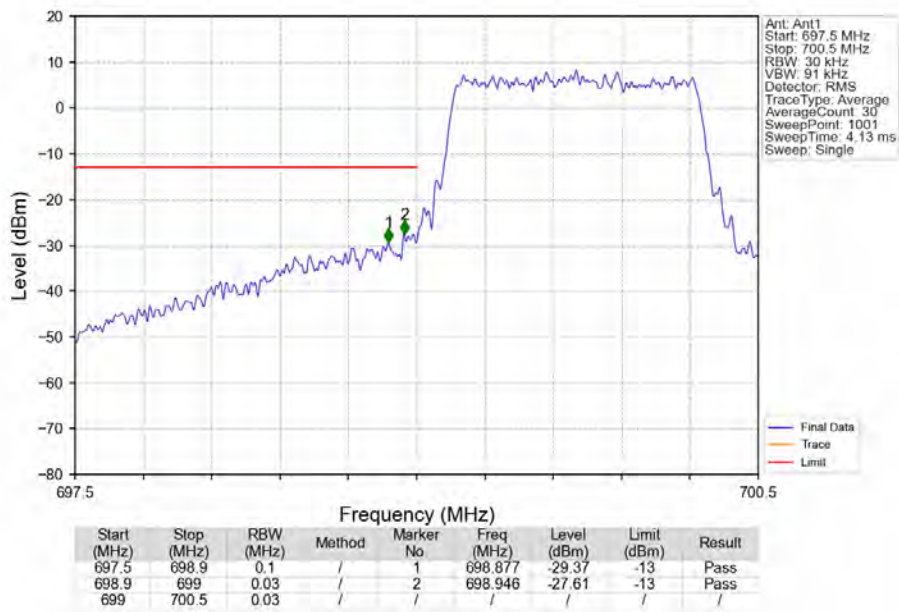
Band12 1.4MHz 16QAM LCH 699.7MHz RB 1 0 NTNV



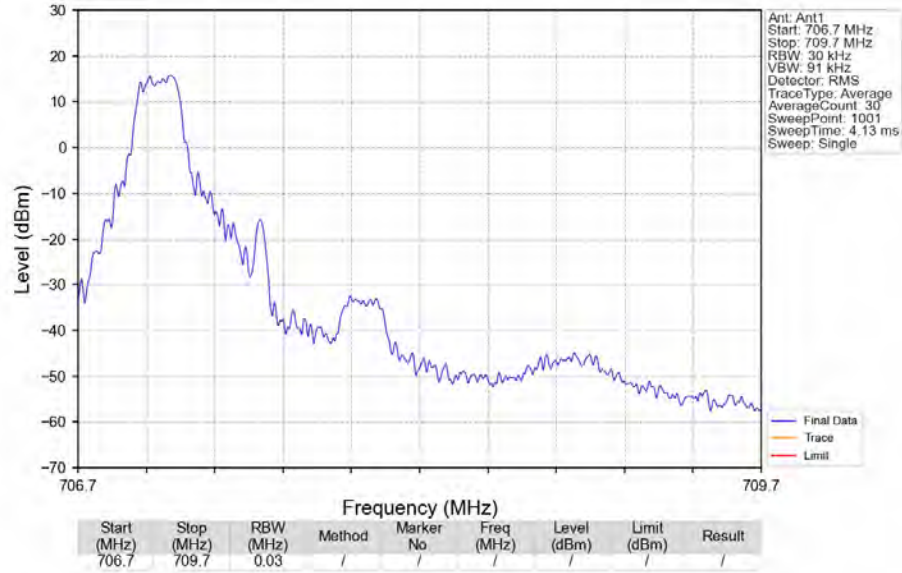
Band12 1.4MHz 16QAM LCH 699.7MHz RB 1 0 NTV



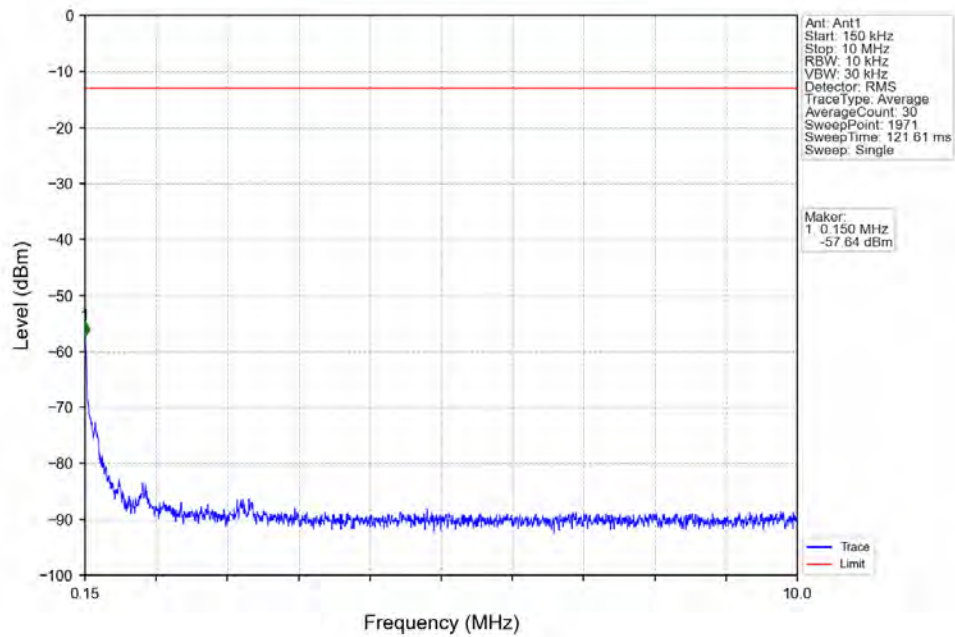
Band12 1.4MHz 16QAM LCH 699.7MHz RB 6 0 NTV



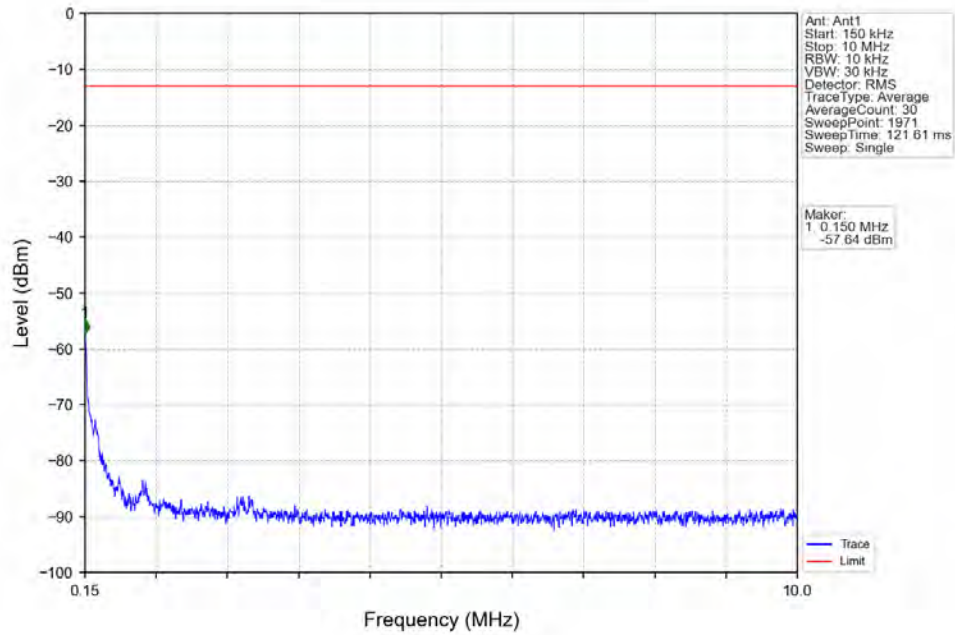
Band12 1.4MHz 16QAM MCH 707.5MHz RB 1 0 NTNV



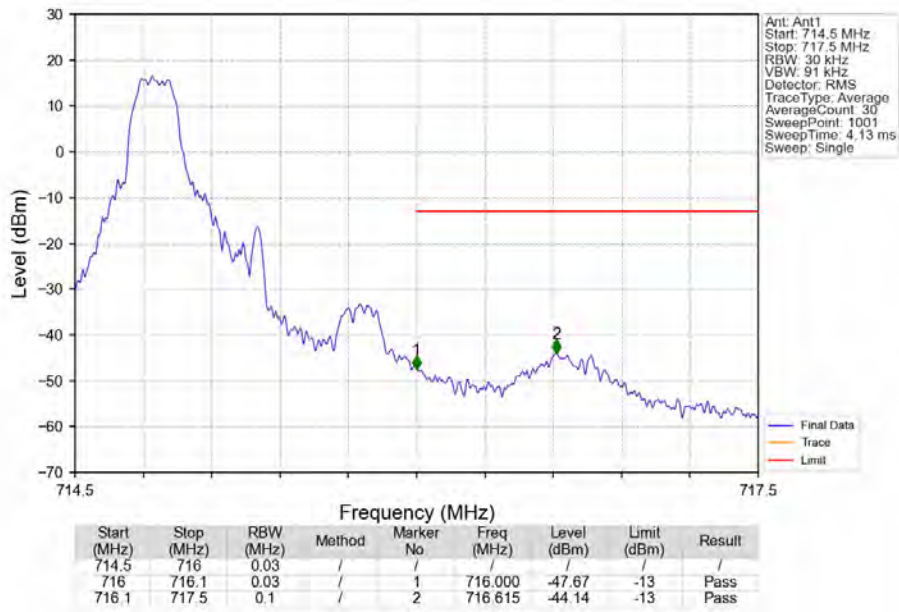
Band12 1.4MHz 16QAM MCH 707.5MHz RB 1 0 NTNV



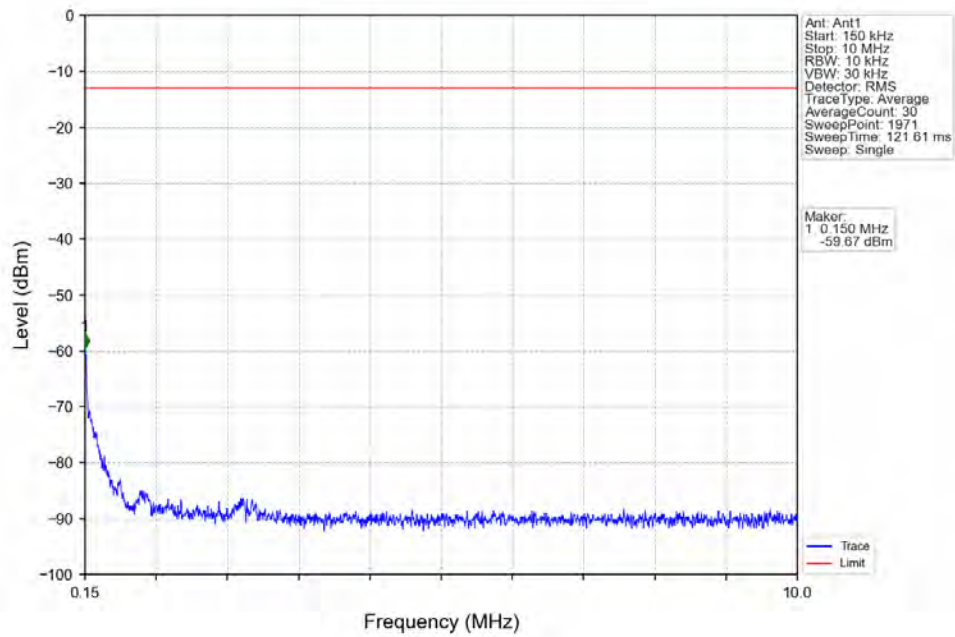
Band12 1.4MHz 16QAM MCH 707.5MHz RB 1 0 NTNV



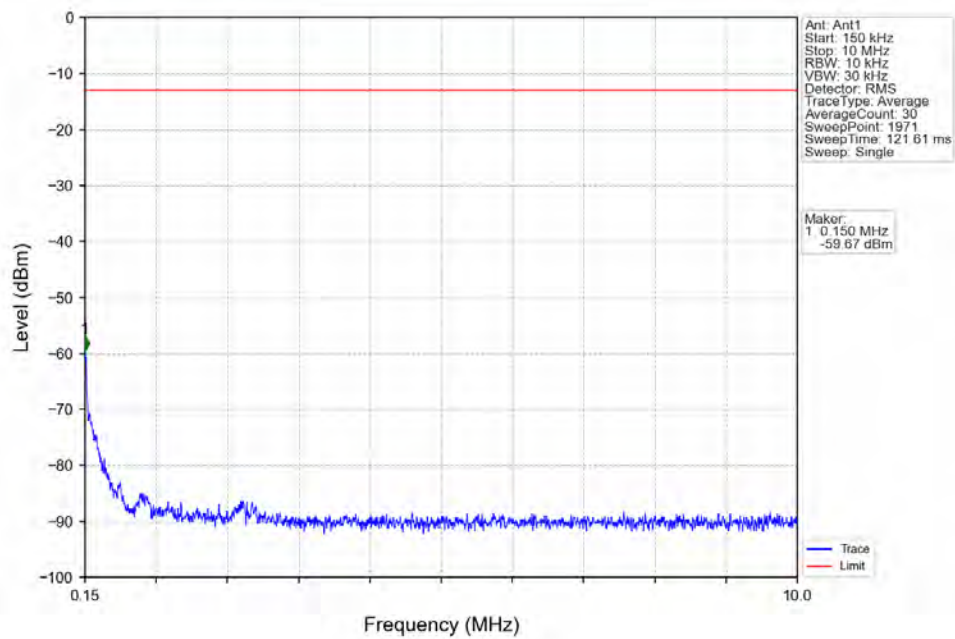
Band12 1.4MHz 16QAM HCH 715.3MHz RB 1 0 NTNV



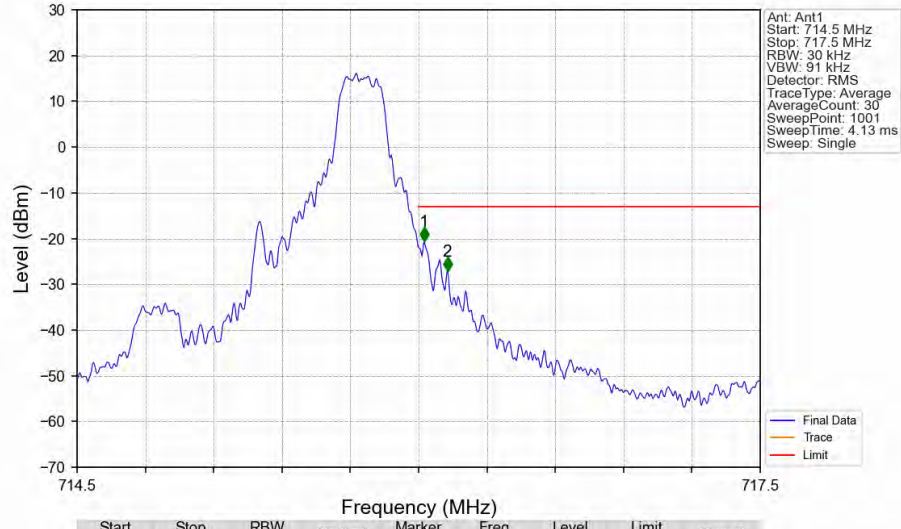
Band12 1.4MHz 16QAM HCH 715.3MHz RB 1 0 NTV



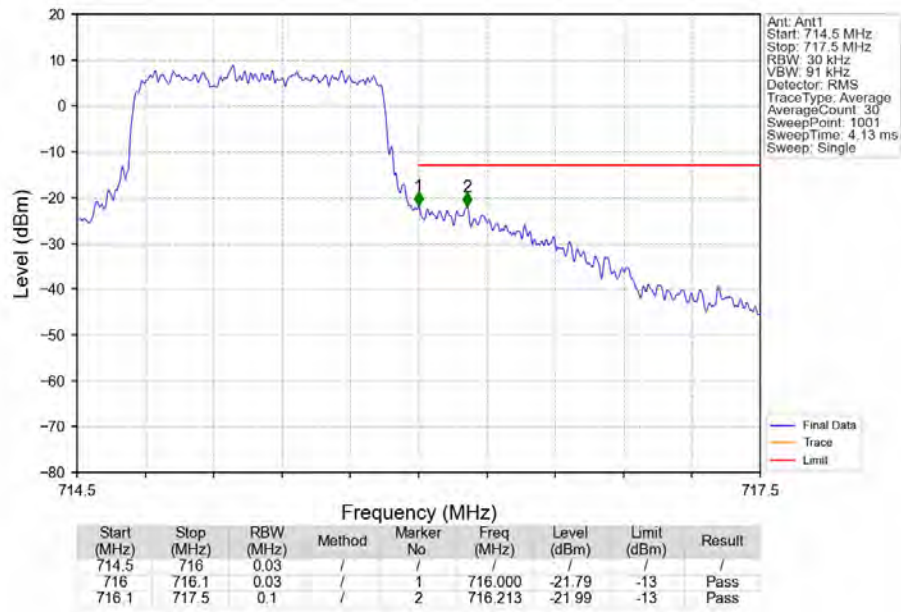
Band12 1.4MHz 16QAM HCH 715.3MHz RB 1 0 NTV



Band12 1.4MHz 16QAM HCH 715.3MHz RB 1 5 NTNV



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

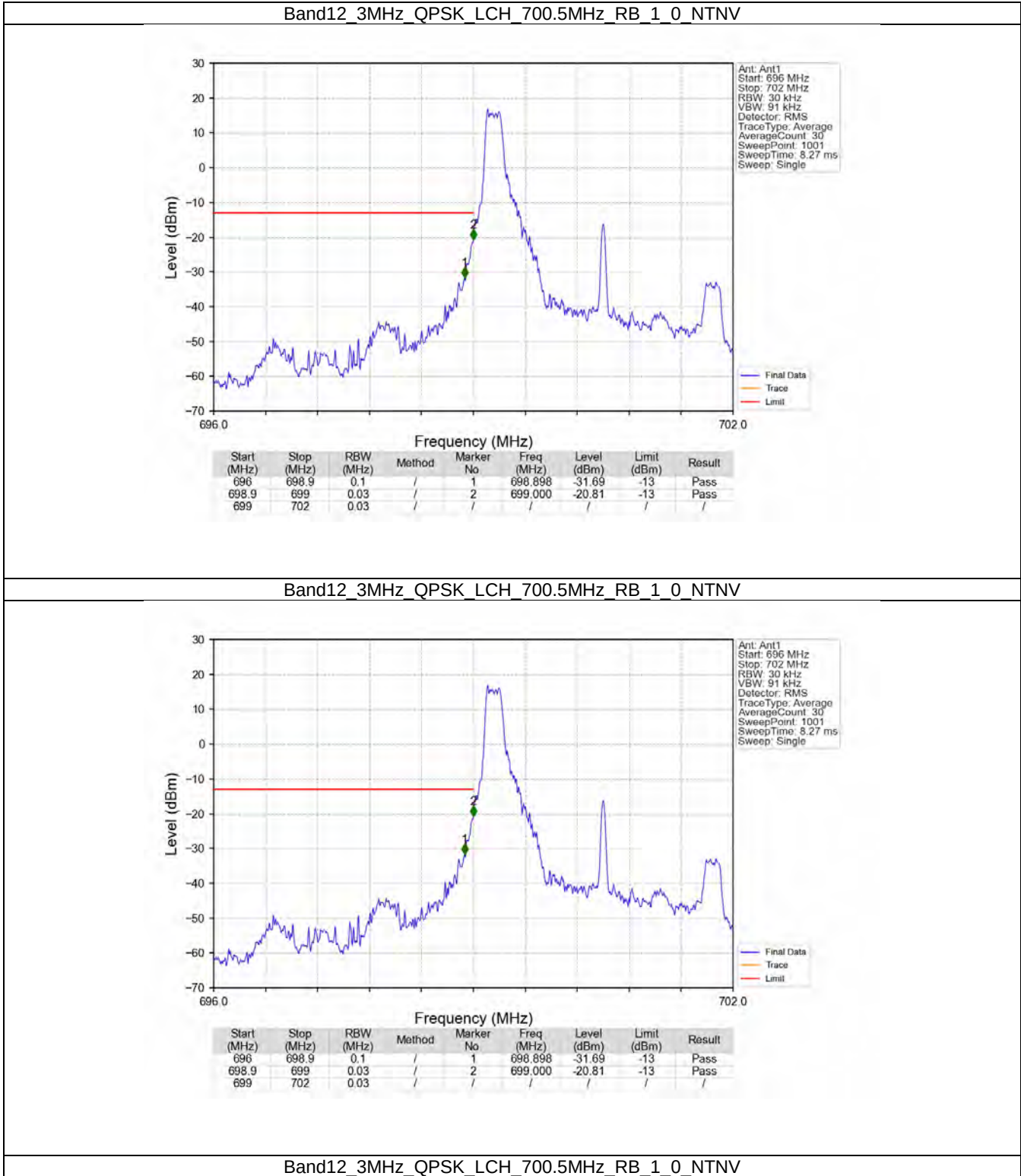


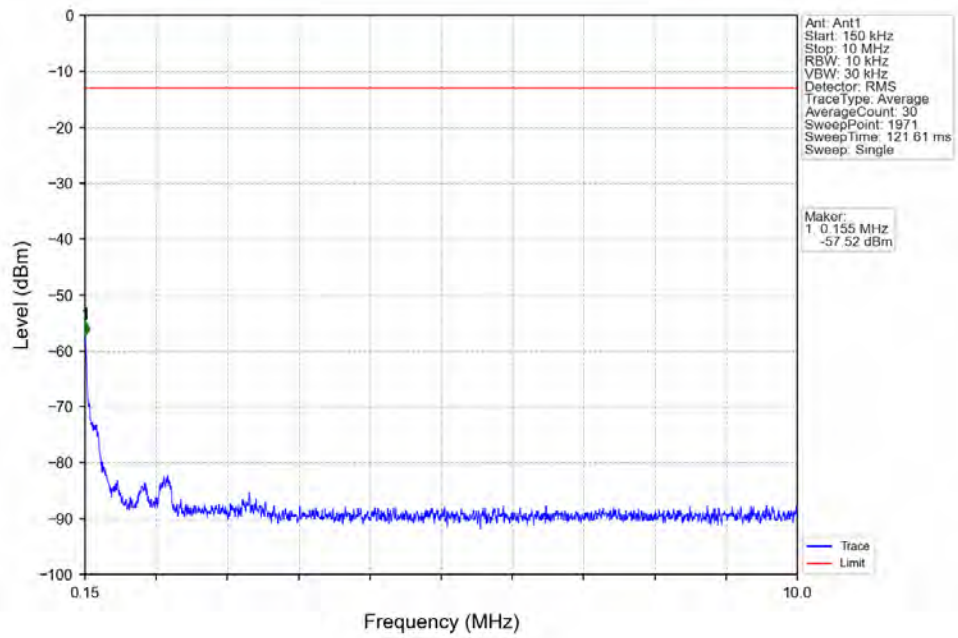
6.2 B12_3MHz

6.2.1 Test Result

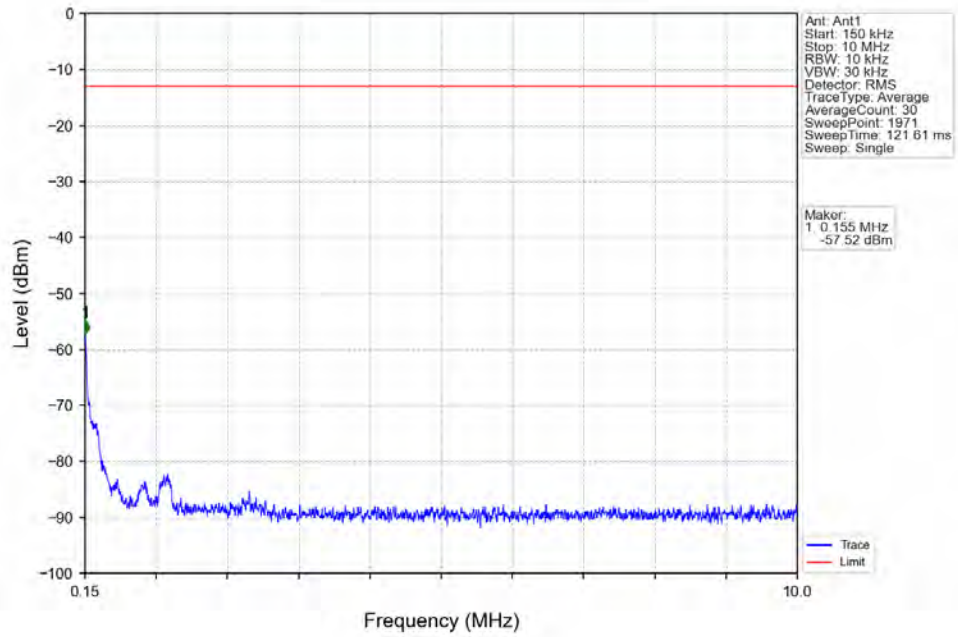
Band: 12 / Bandwidth: 3MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	714.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test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

6.2.2 Test Graph

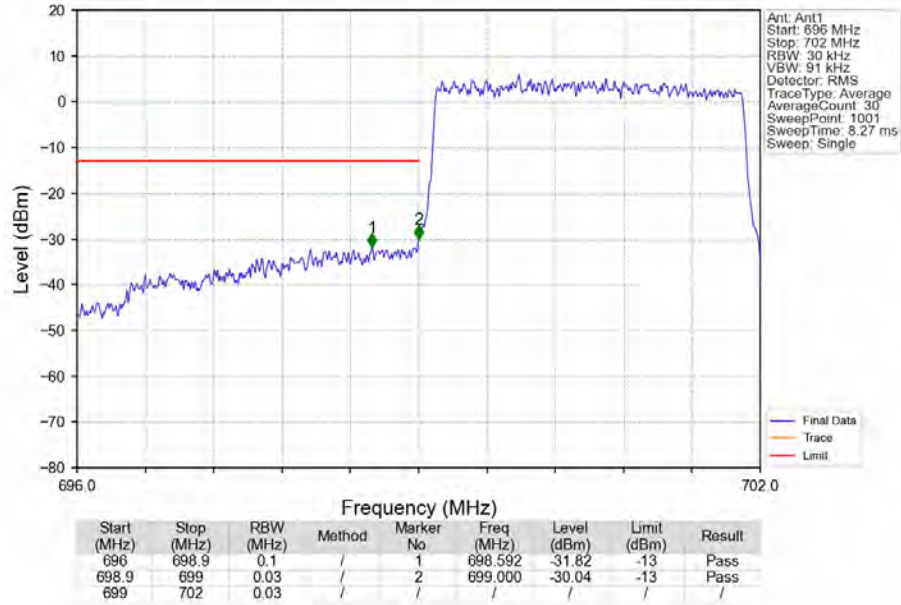




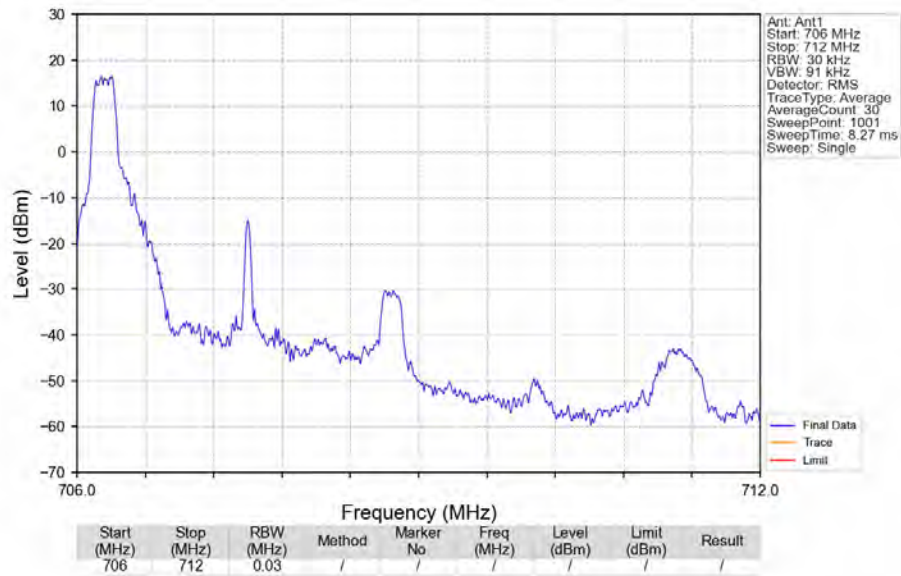
Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV



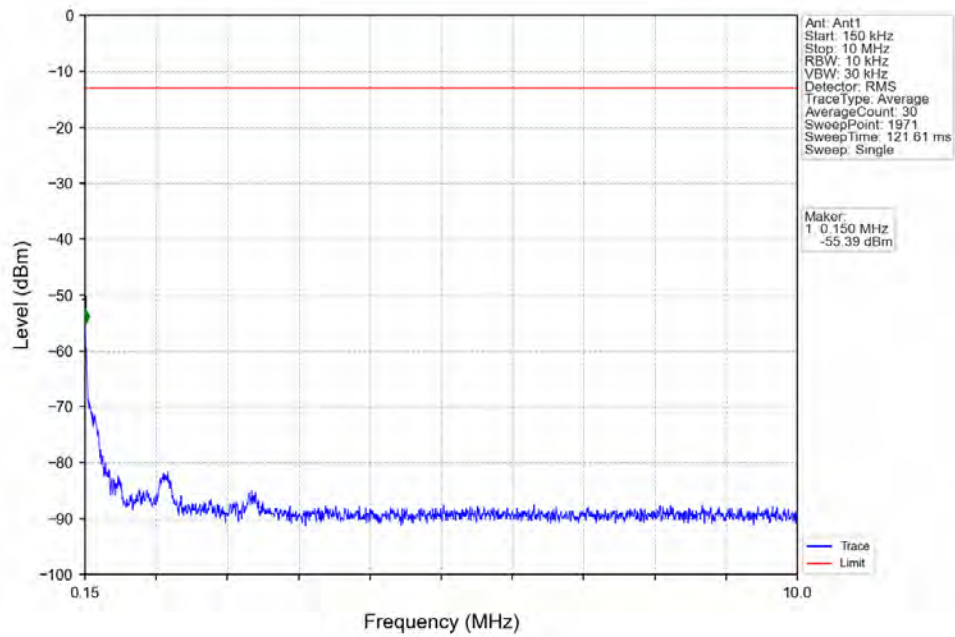
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



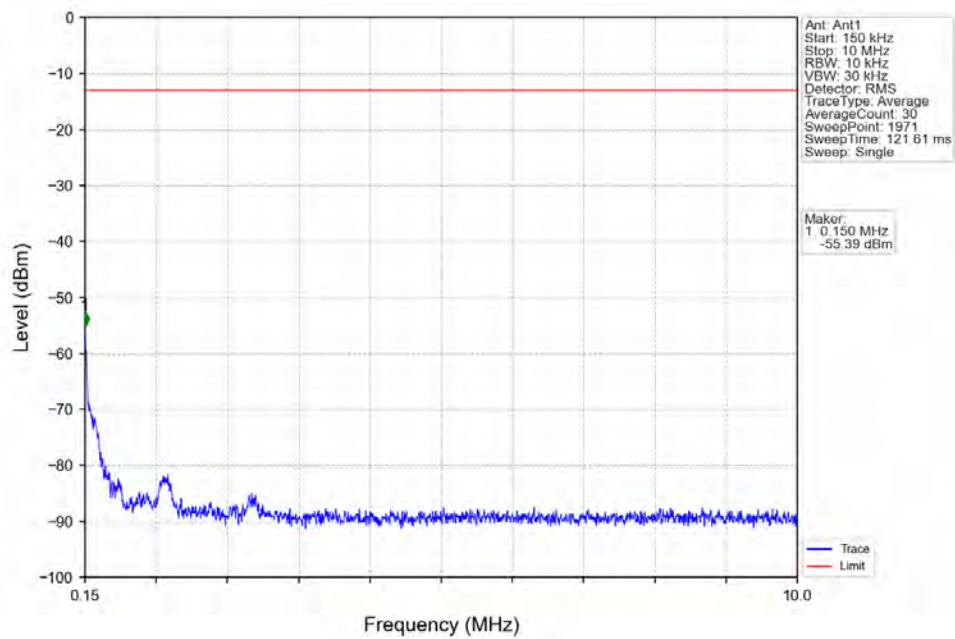
Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



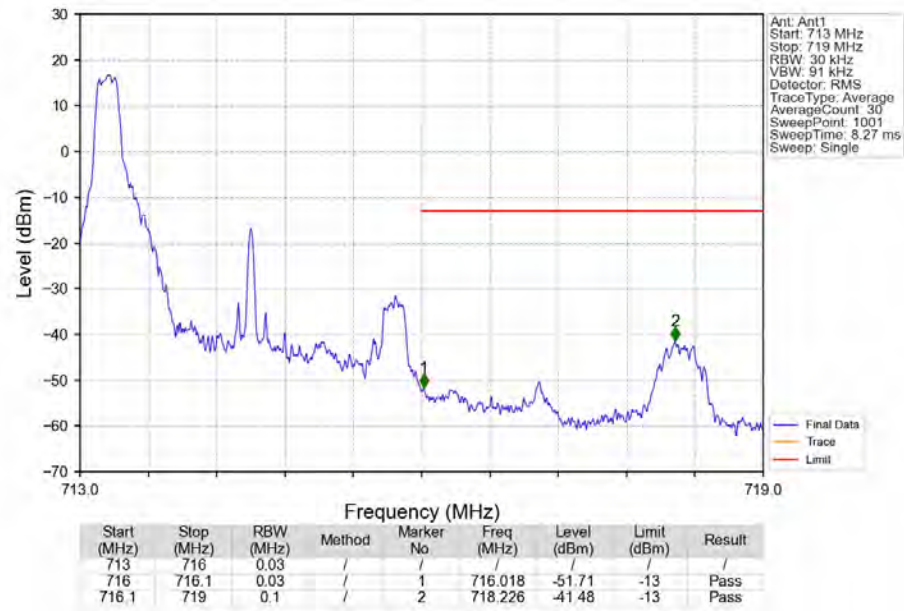
Band12 3MHz QPSK MCH 707.5MHz RB 1 0 NTNV



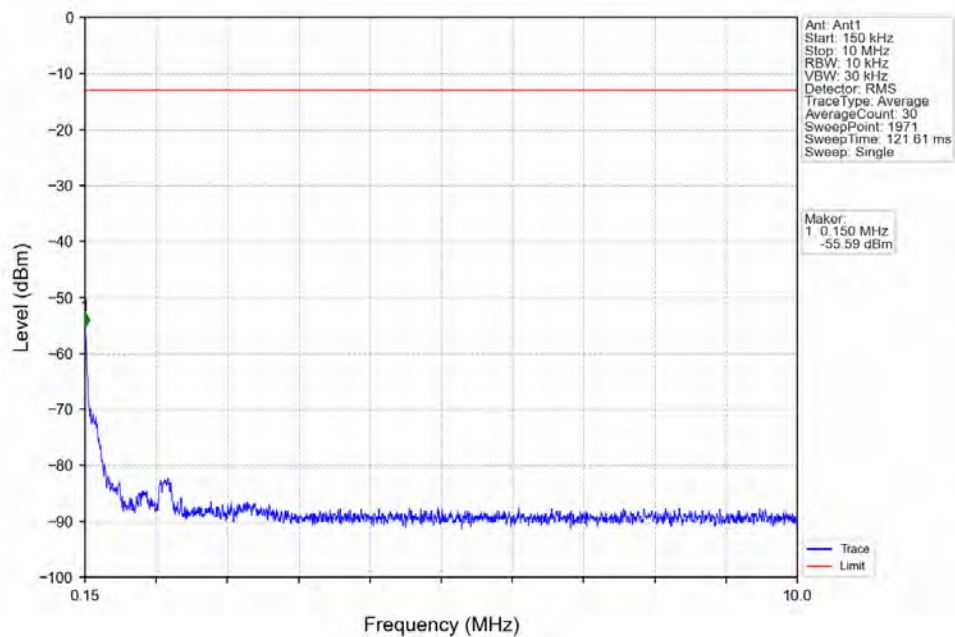
Band12 3MHz QPSK MCH 707.5MHz RB 1 0 NTNV



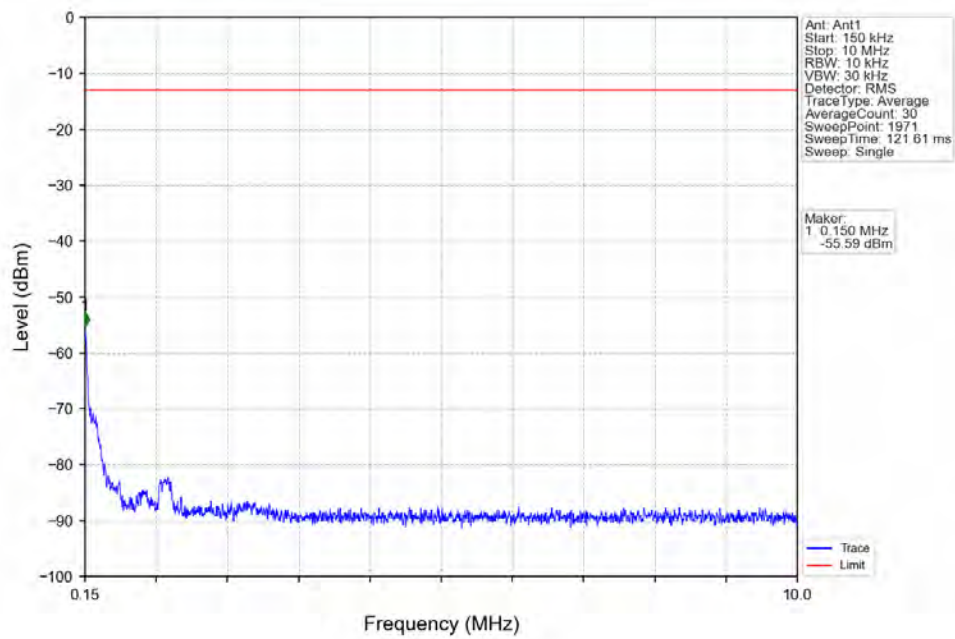
Band12 3MHz QPSK HCH 714.5MHz RB 1 0 NTN



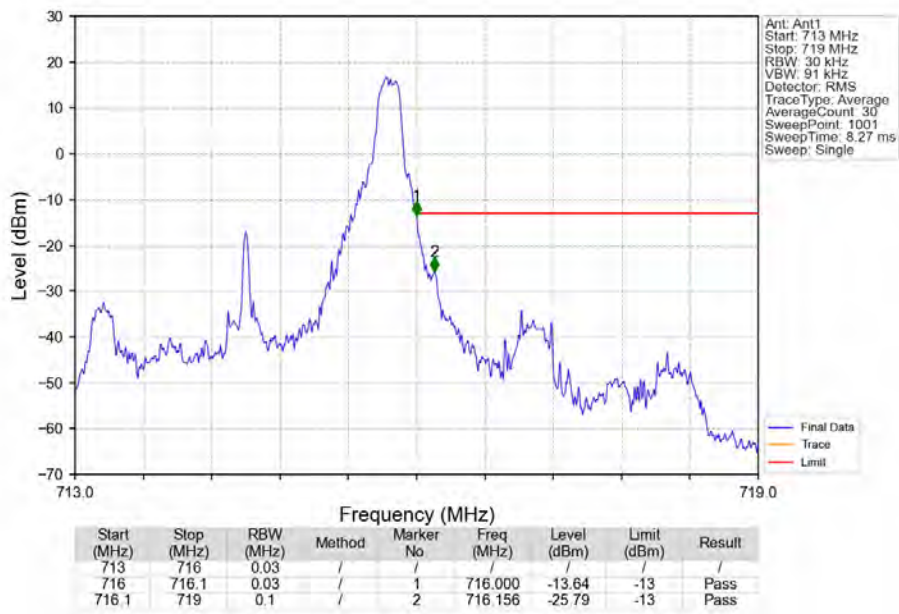
Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_0_NTNV



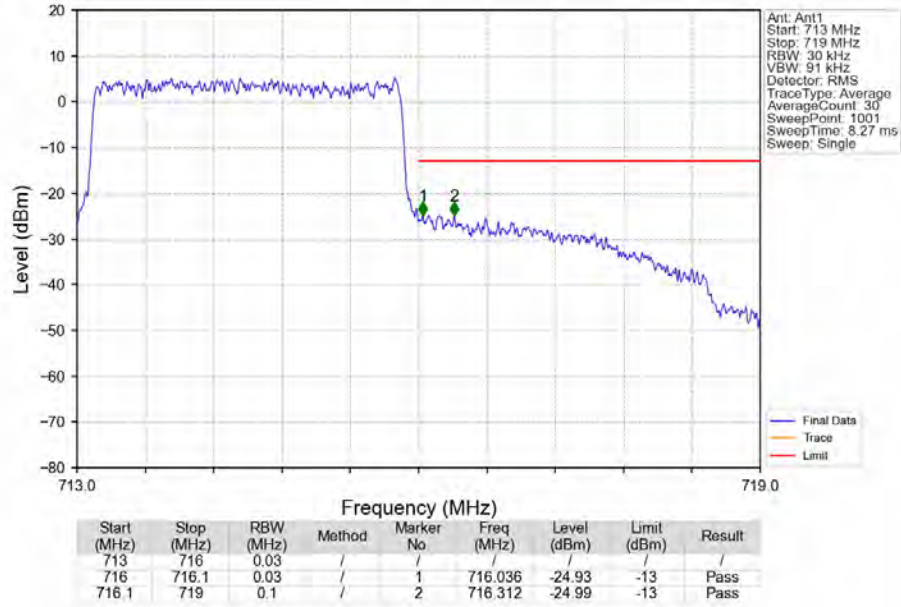
Band12 3MHz QPSK HCH 714.5MHz RB 1 0 NTN



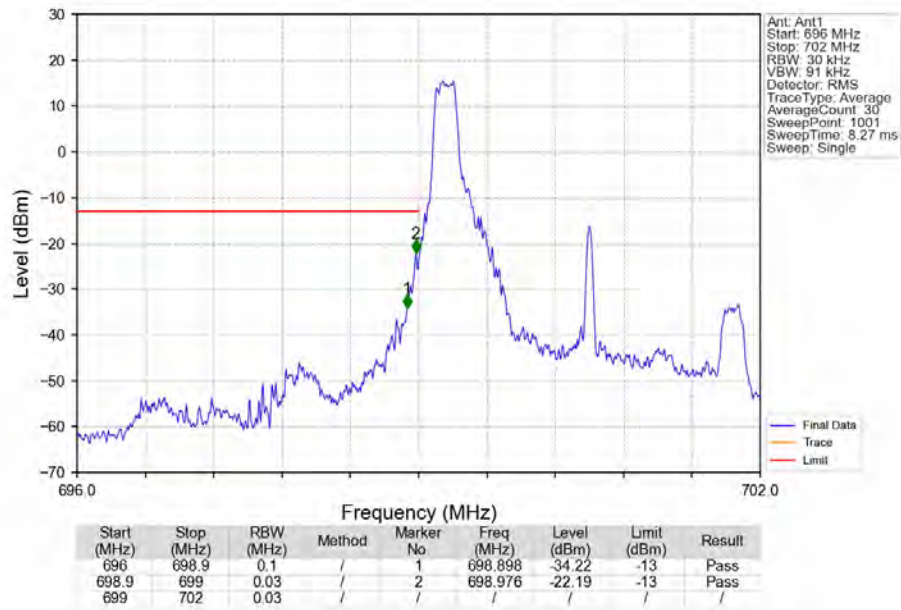
Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_14 NTN



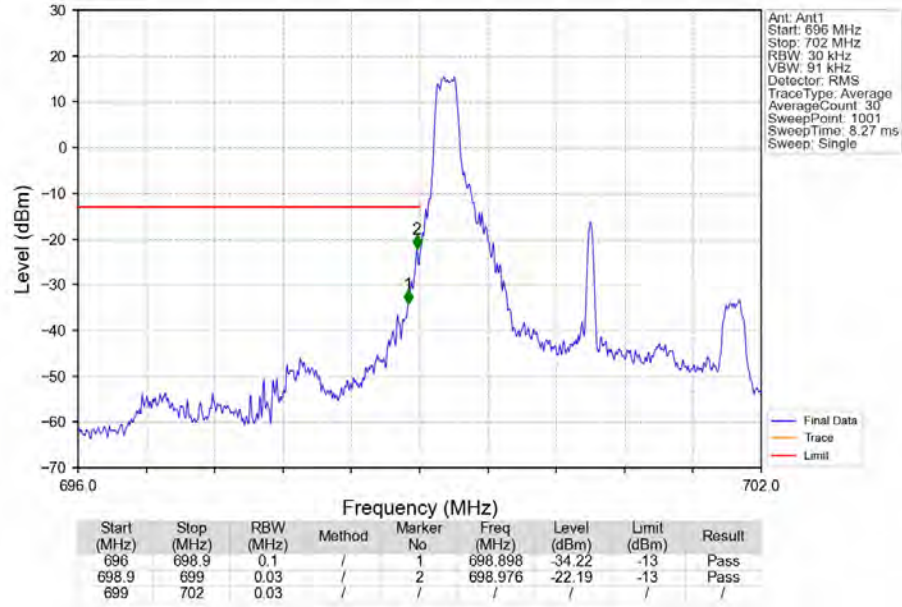
Band12 3MHz QPSK HCH 714.5MHz RB 15 0 NTV



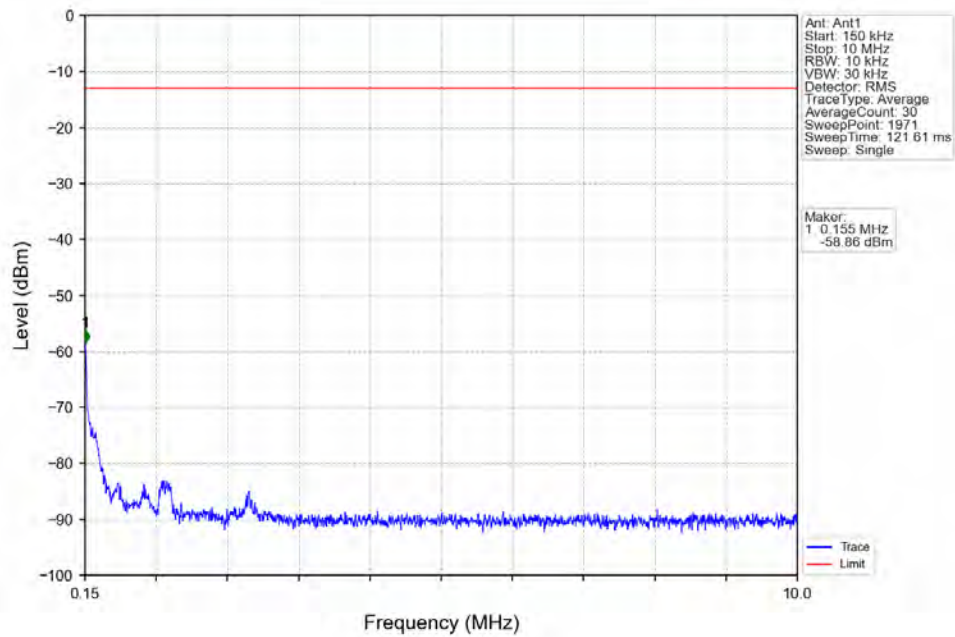
Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTV



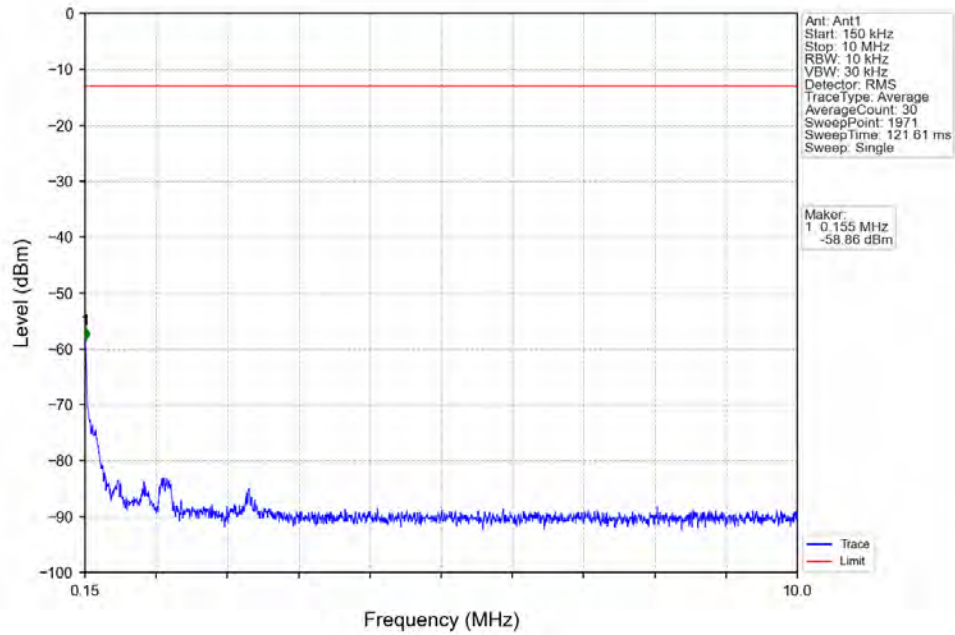
Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV



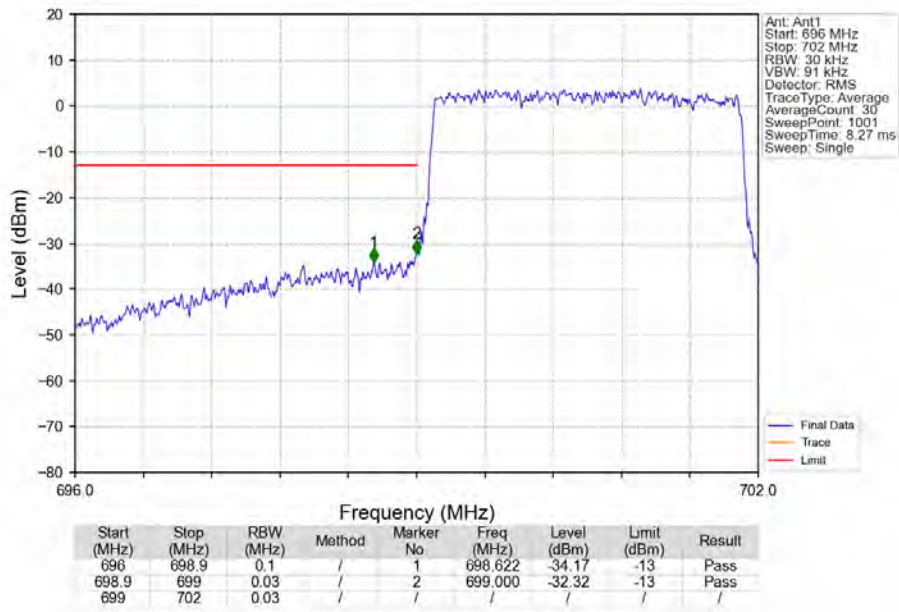
Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV



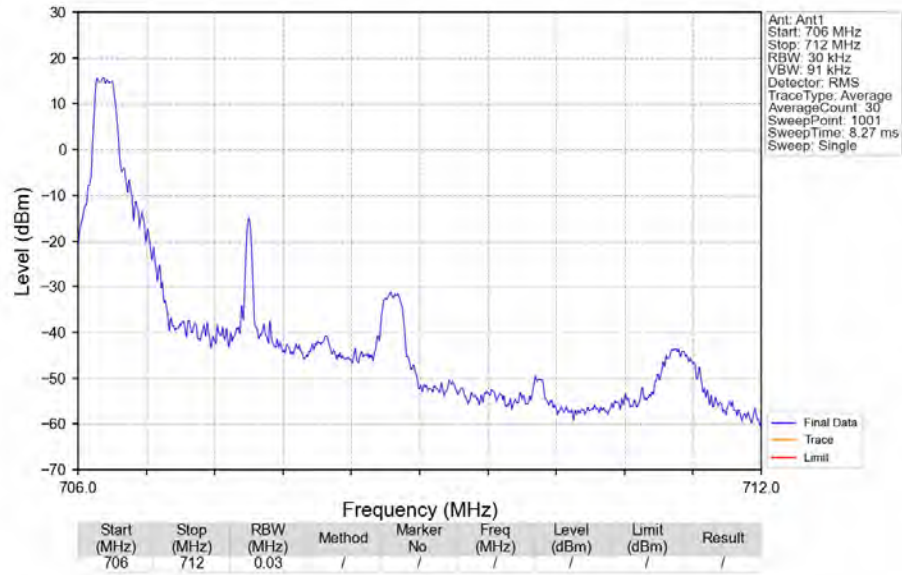
Band12 3MHz 16QAM LCH 700.5MHz RB 1 0 NTNV



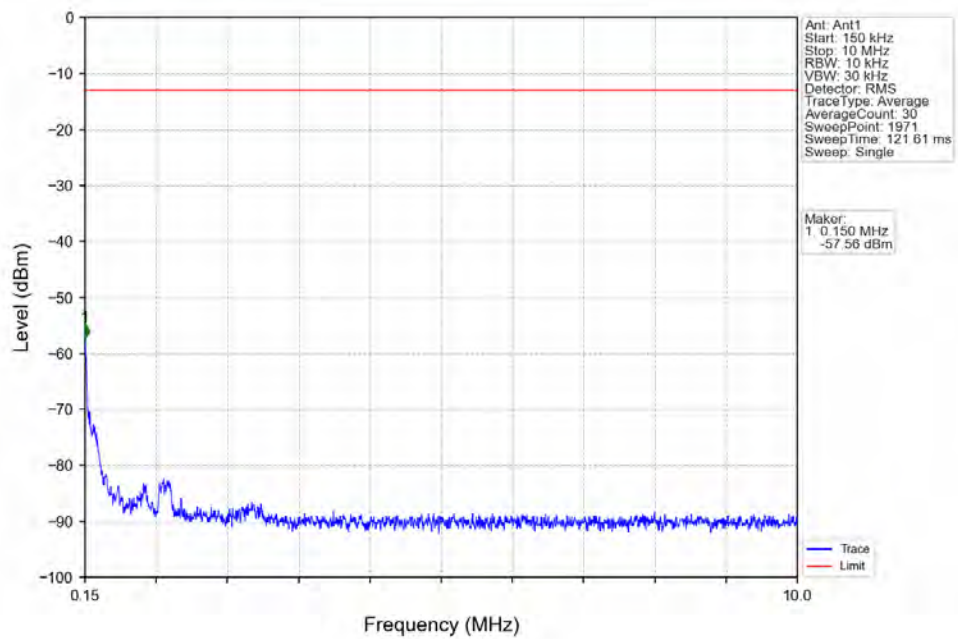
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



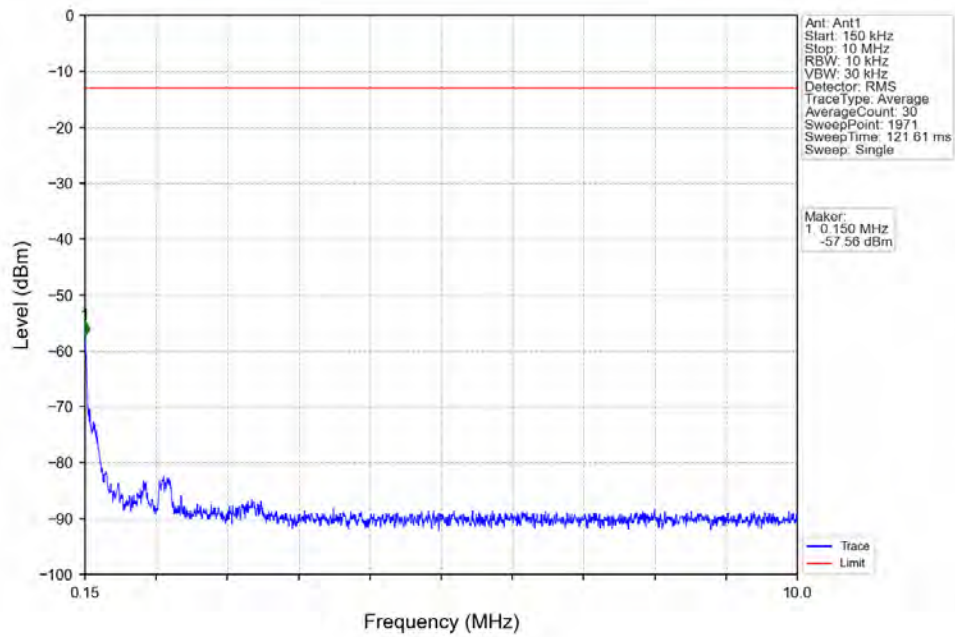
Band12 3MHz 16QAM MCH 707.5MHz RB 1 0 NTNV



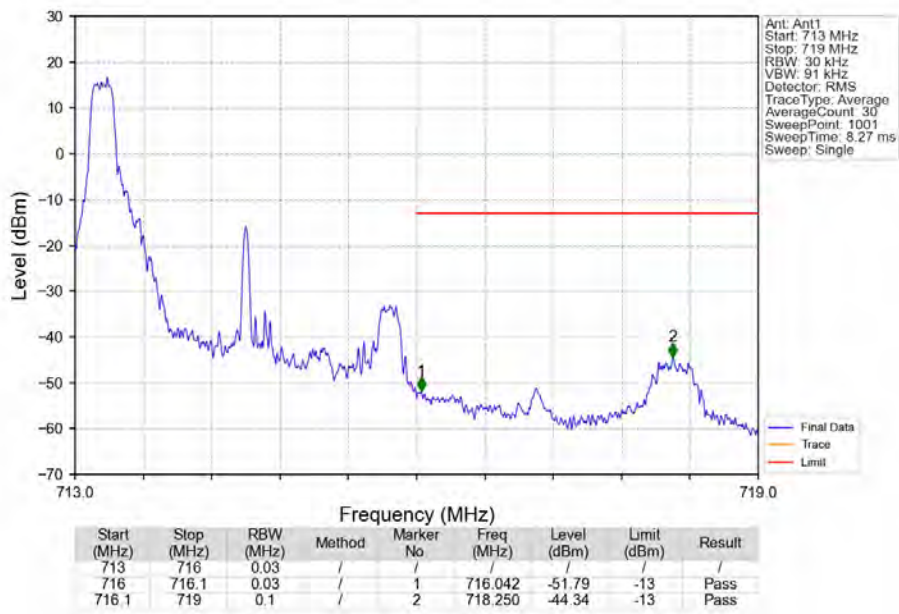
Band12 3MHz 16QAM MCH 707.5MHz RB 1 0 NTNV



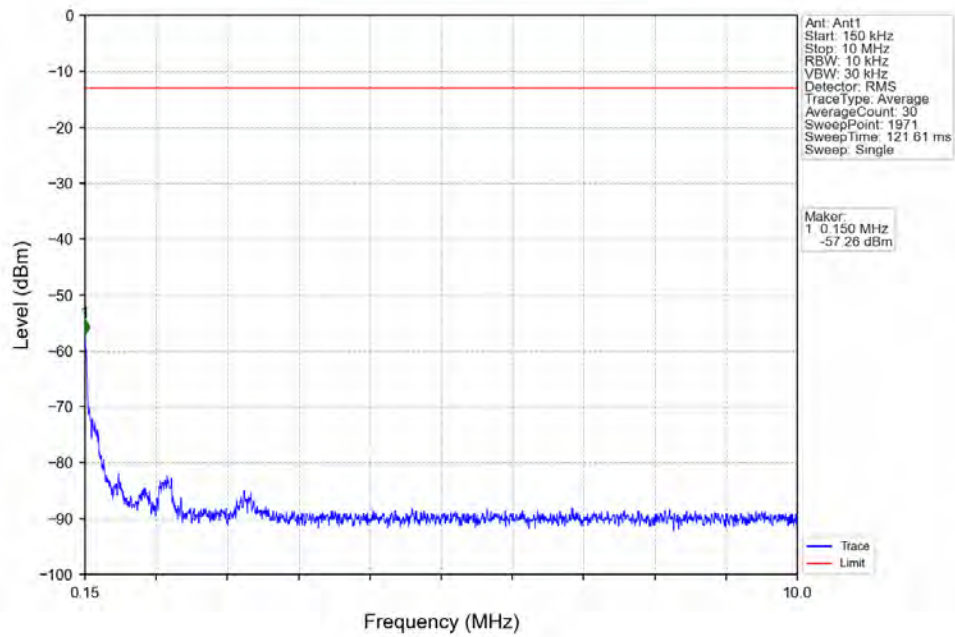
Band12 3MHz 16QAM MCH 707.5MHz RB 1 0 NTV



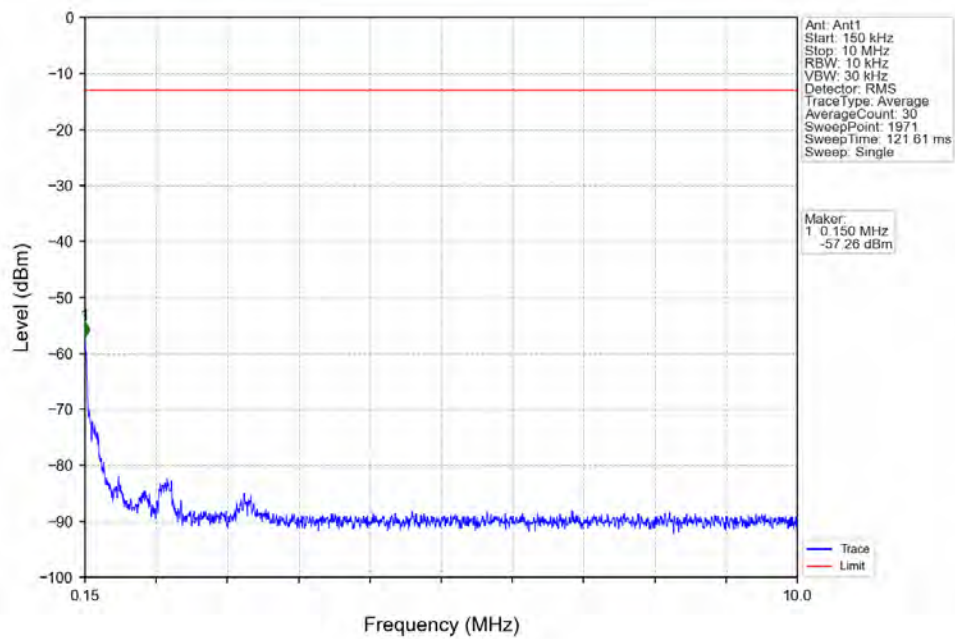
Band12 3MHz 16QAM HCH 714.5MHz RB 1 0 NTV



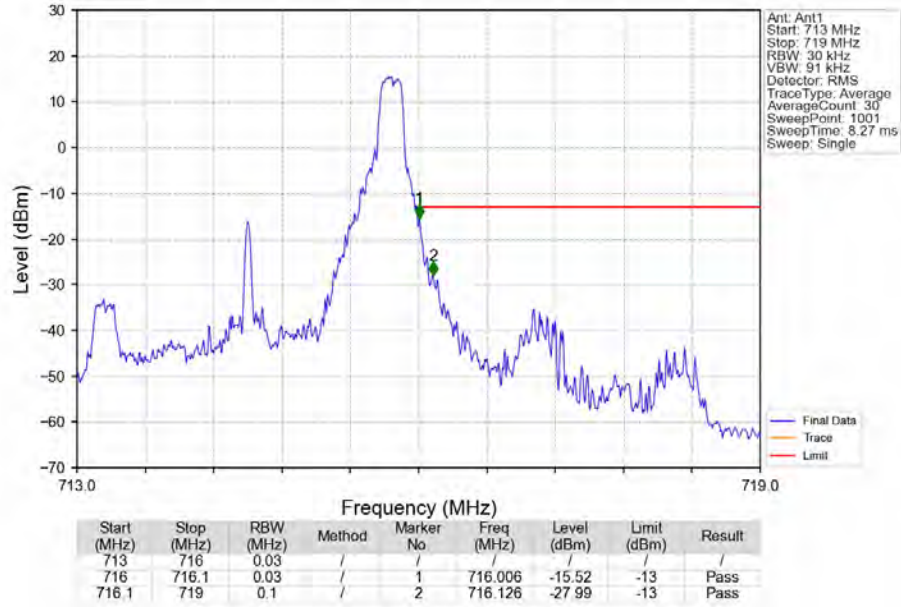
Band12 3MHz 16QAM HCH 714.5MHz RB 1 0 NTNV



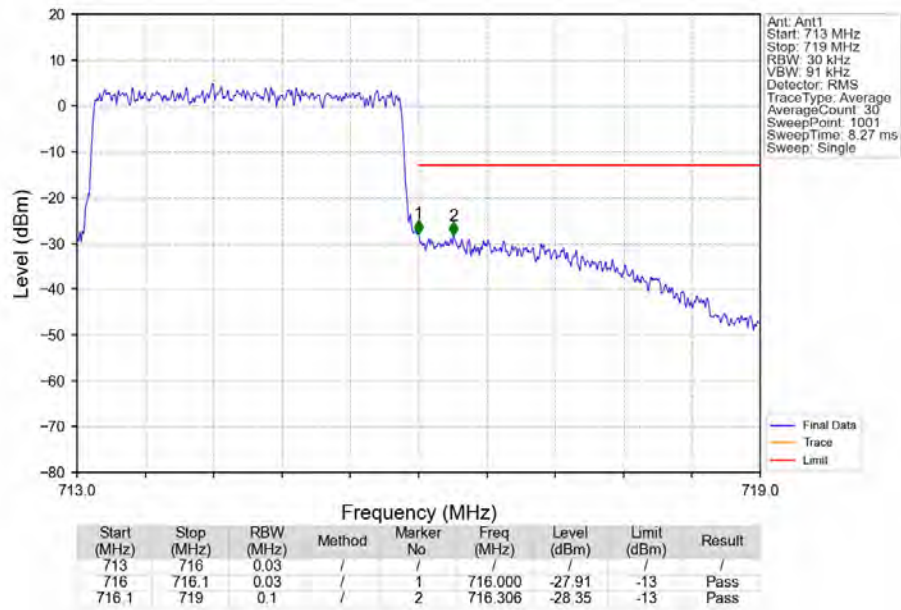
Band12 3MHz 16QAM HCH 714.5MHz RB 1 0 NTNV



Band12 3MHz 16QAM HCH 714.5MHz RB 1 14 NTNV



Band12 3MHz 16QAM HCH 714.5MHz RB 15 0 NTNV

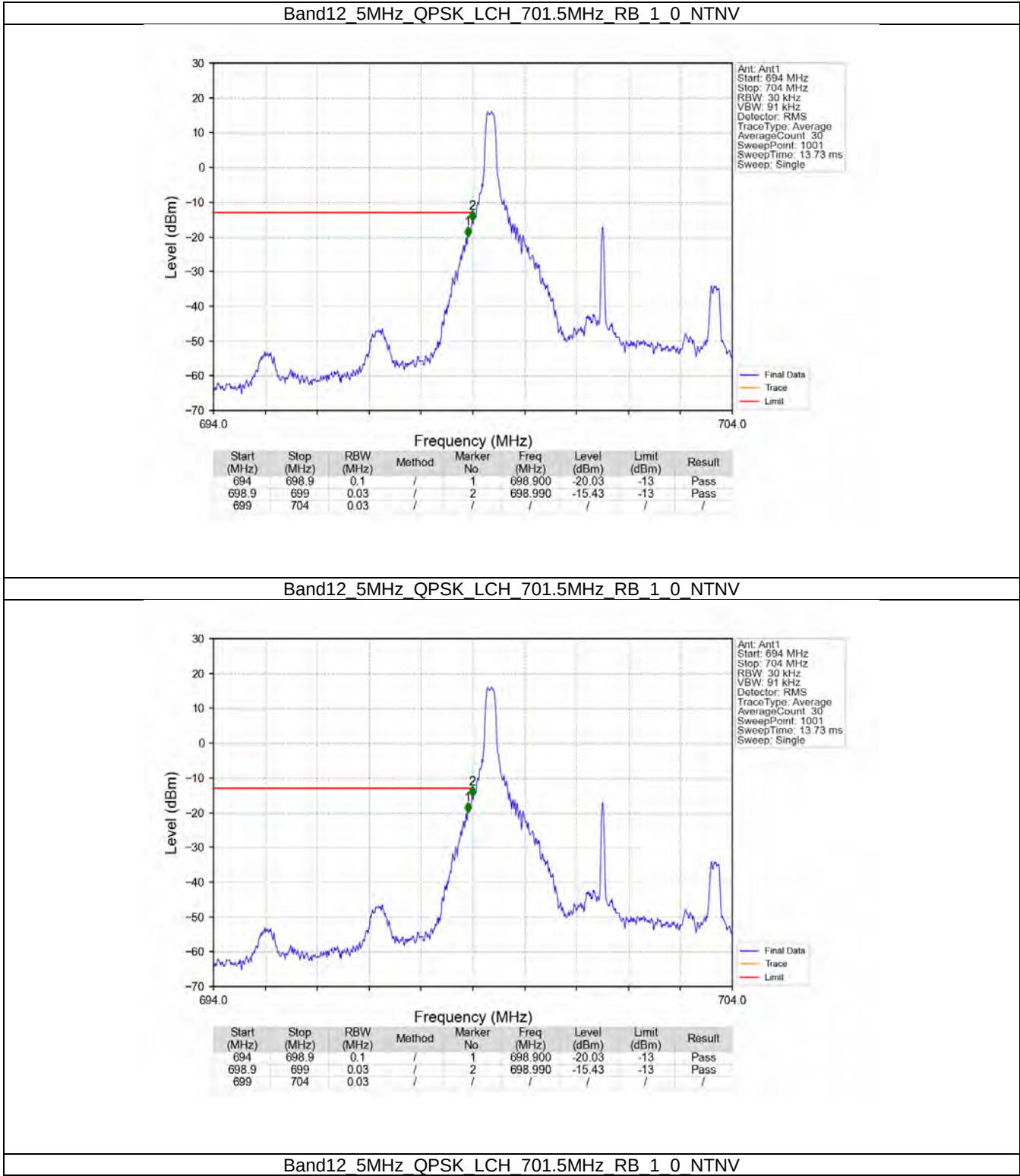


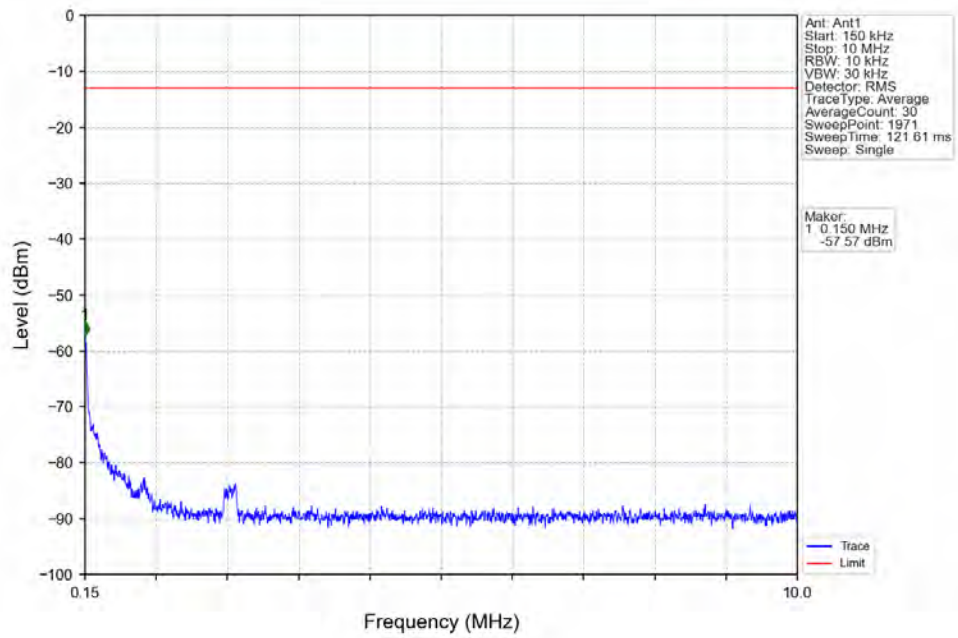
6.3 B12_5MHz

6.3.1 Test Result

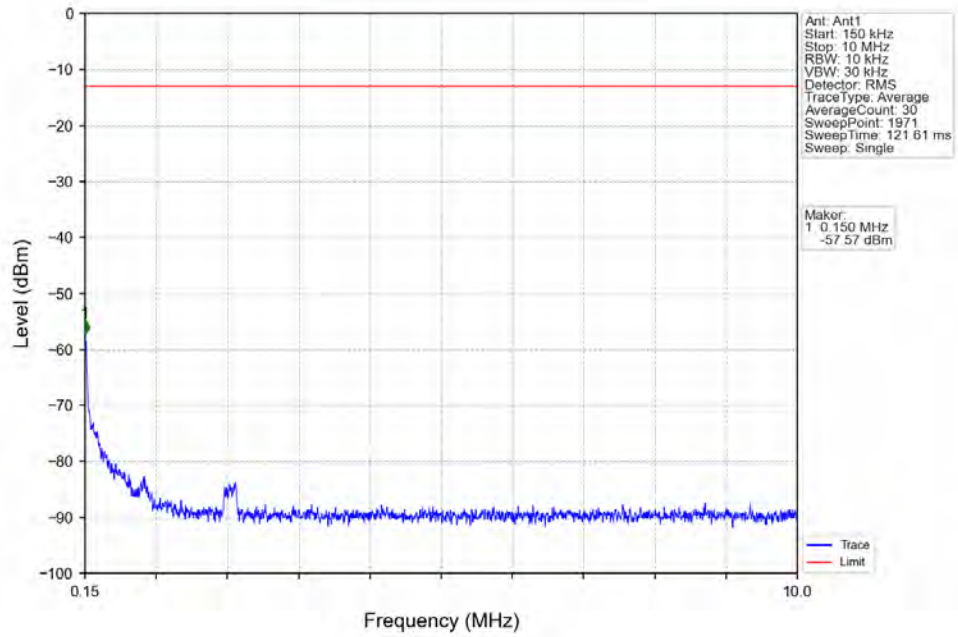
Band: 12 / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test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

6.3.2 Test Graph

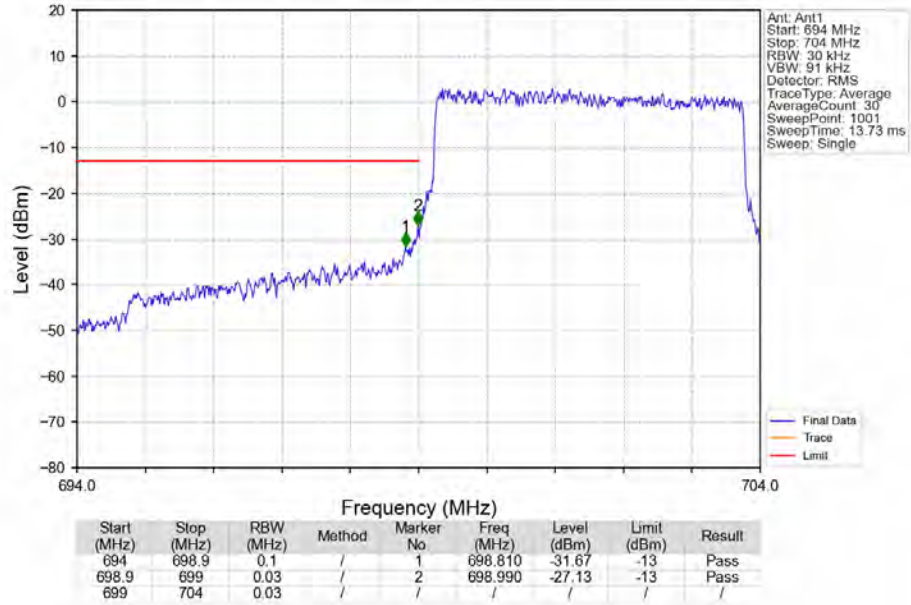




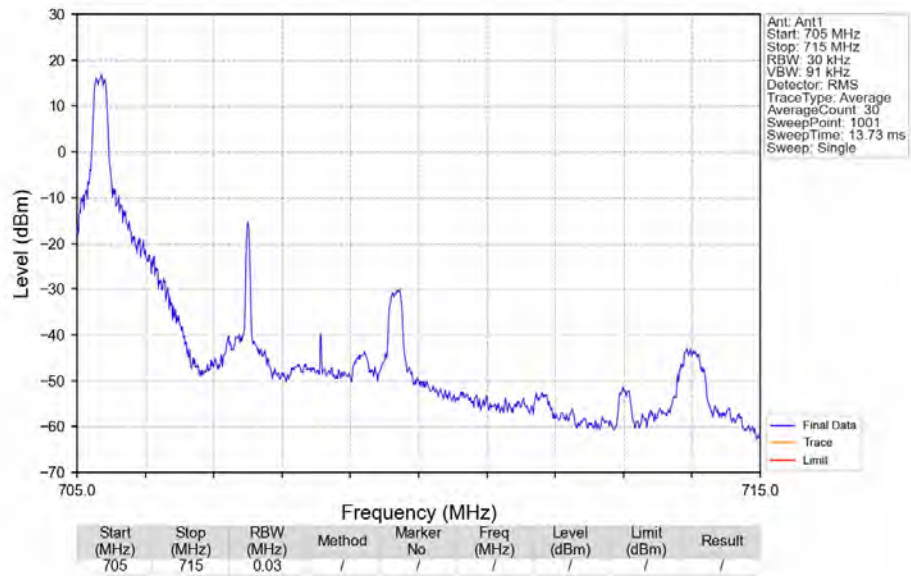
Band12_5MHz_QPSK_LCH_701.5MHz_RB_1_0_NTNV



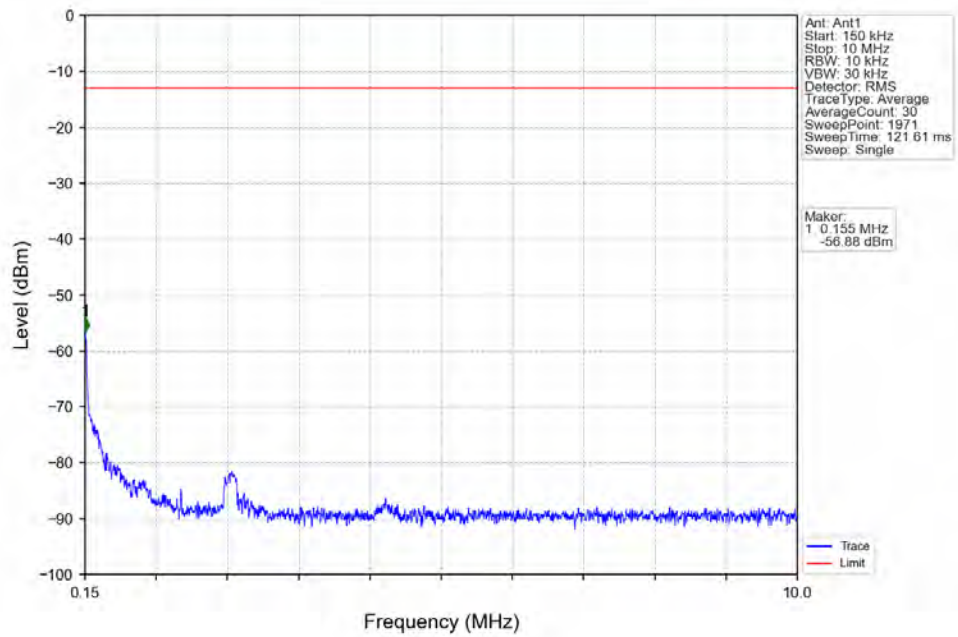
Band12 5MHz QPSK LCH 701.5MHz RB 25 0 NTNV



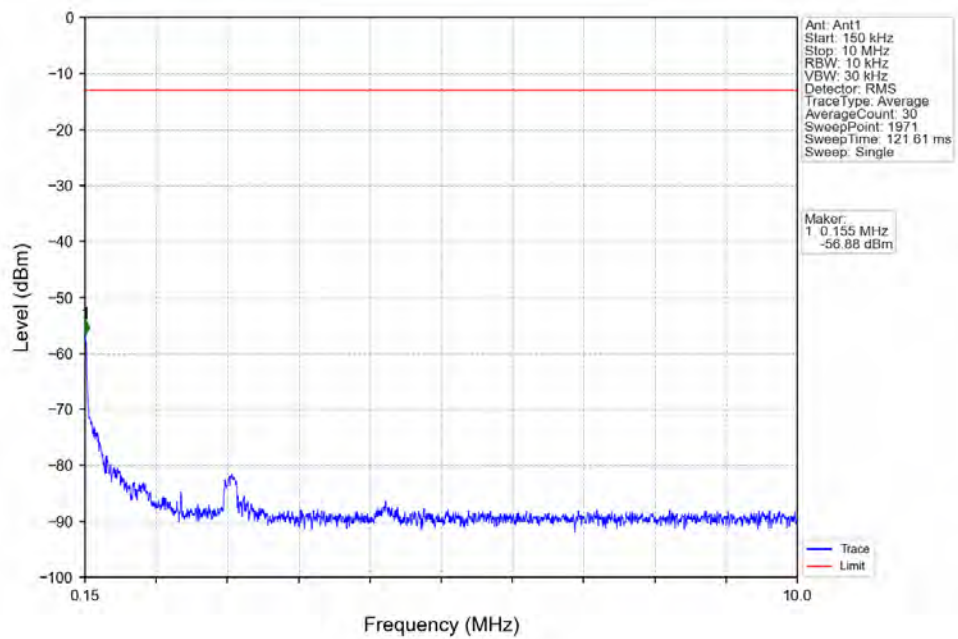
Band12 5MHz QPSK MCH 707.5MHz RB 1 0 NTNV



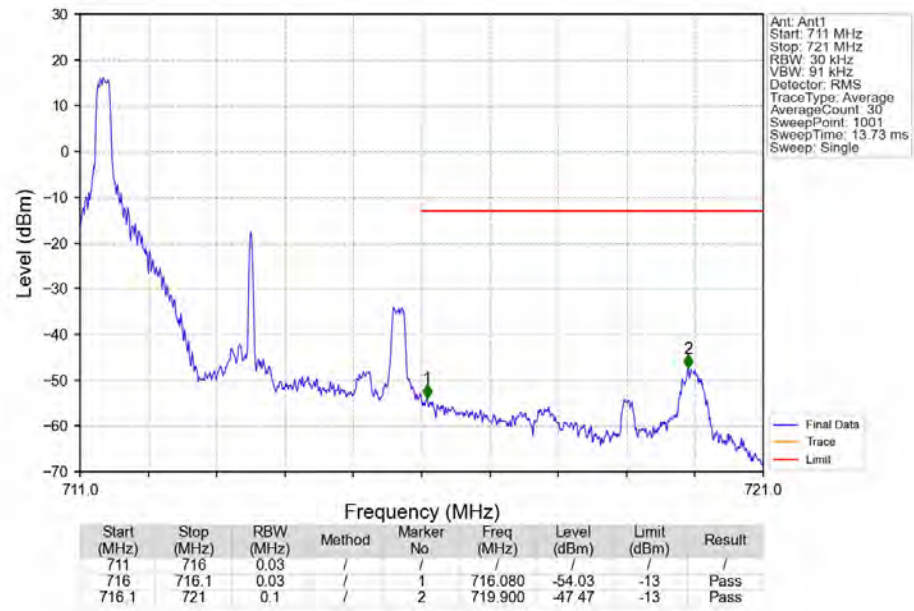
Band12 5MHz QPSK MCH 707.5MHz RB 1 0 NTN



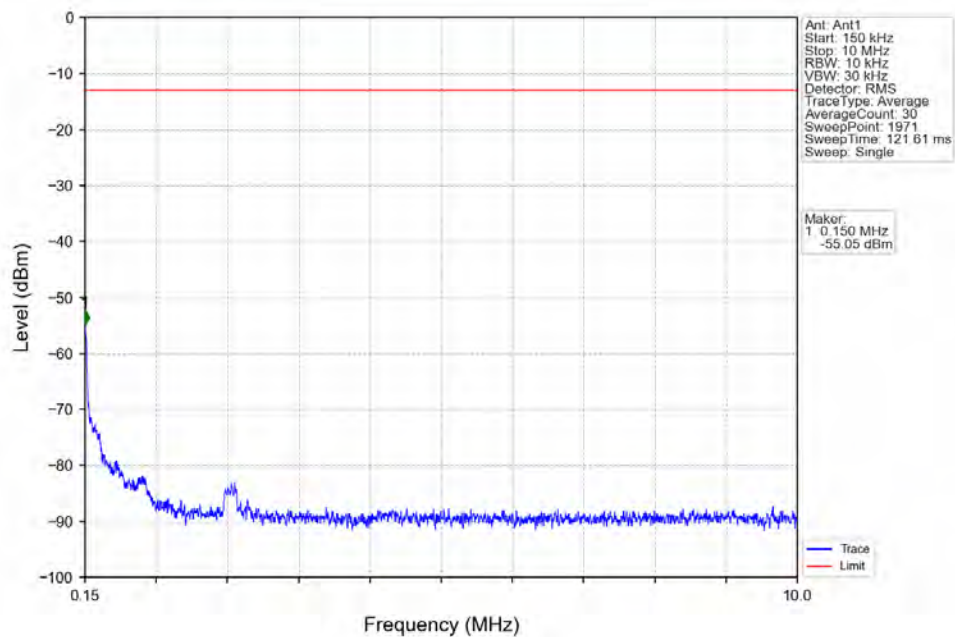
Band12 5MHz QPSK MCH 707.5MHz RB 1 0 NTN



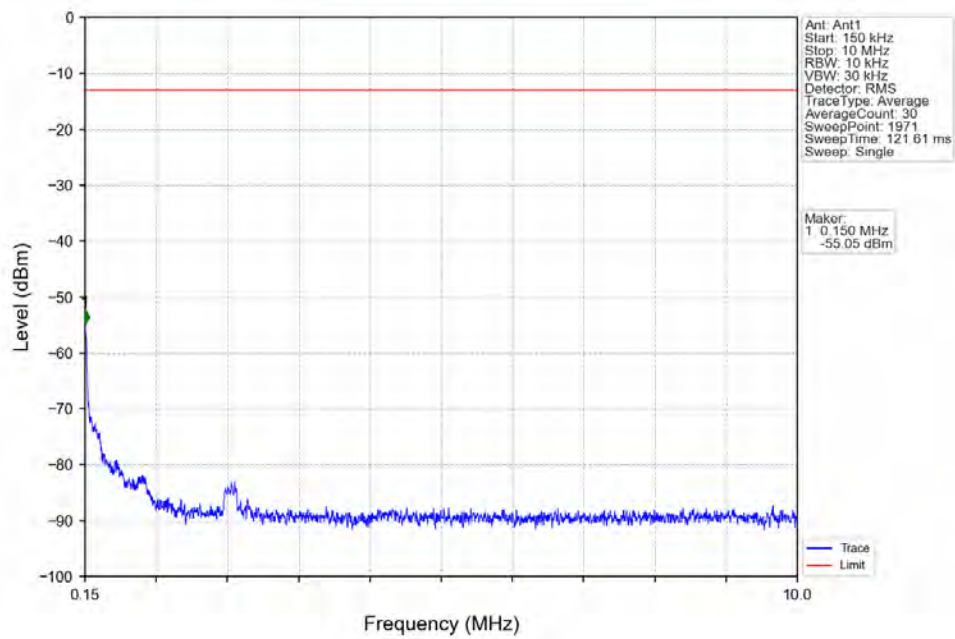
Band12 5MHz QPSK HCH 713.5MHz RB 1 0 NTN



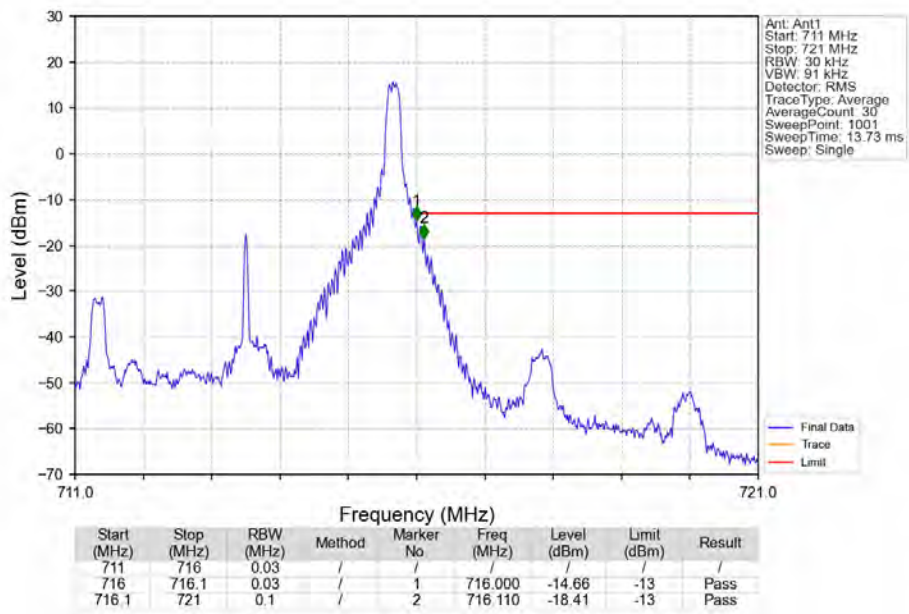
Band12 5MHz QPSK HCH 713.5MHz RB 1 0 NTN



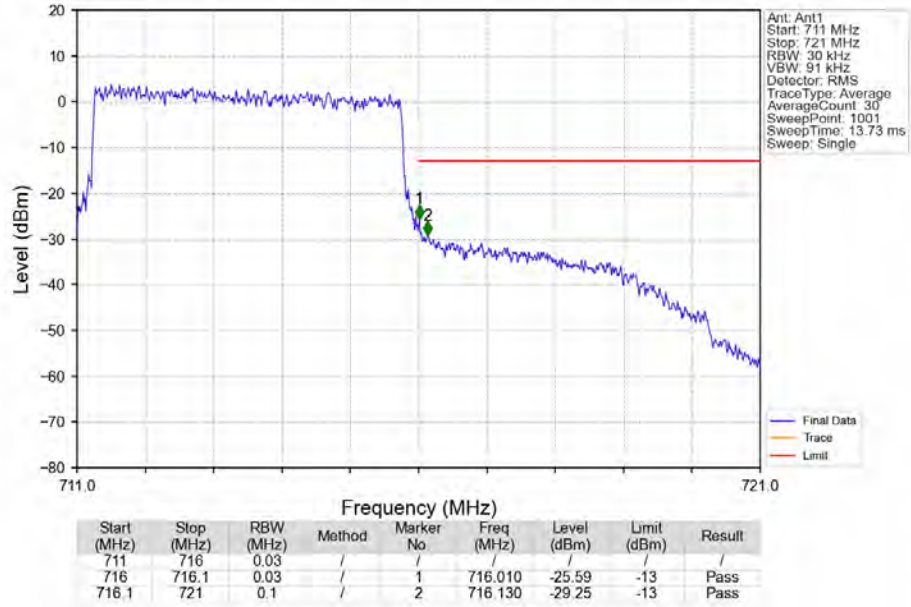
Band12 5MHz QPSK HCH 713.5MHz RB 1 0 NTN



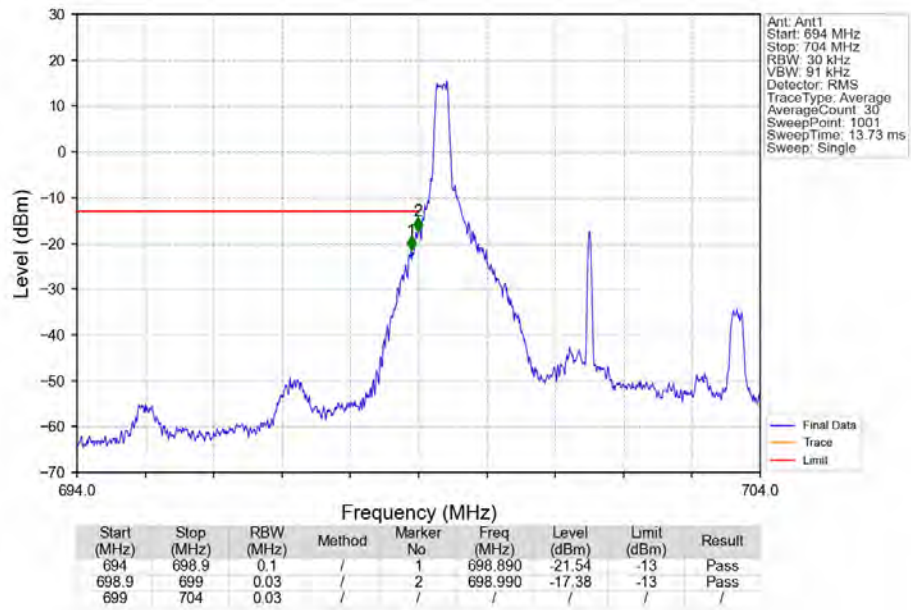
Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



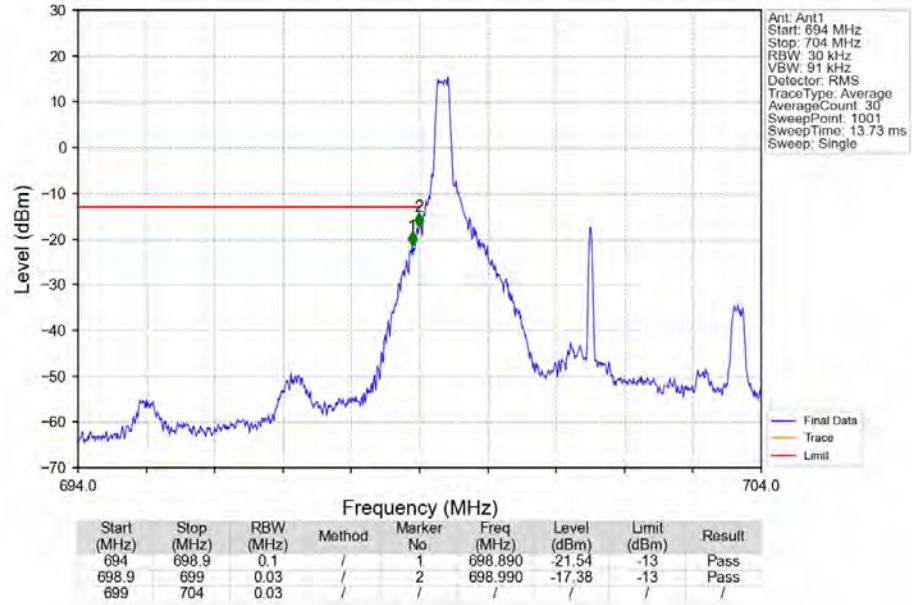
Band12 5MHz QPSK HCH 713.5MHz RB 25 0 NTV



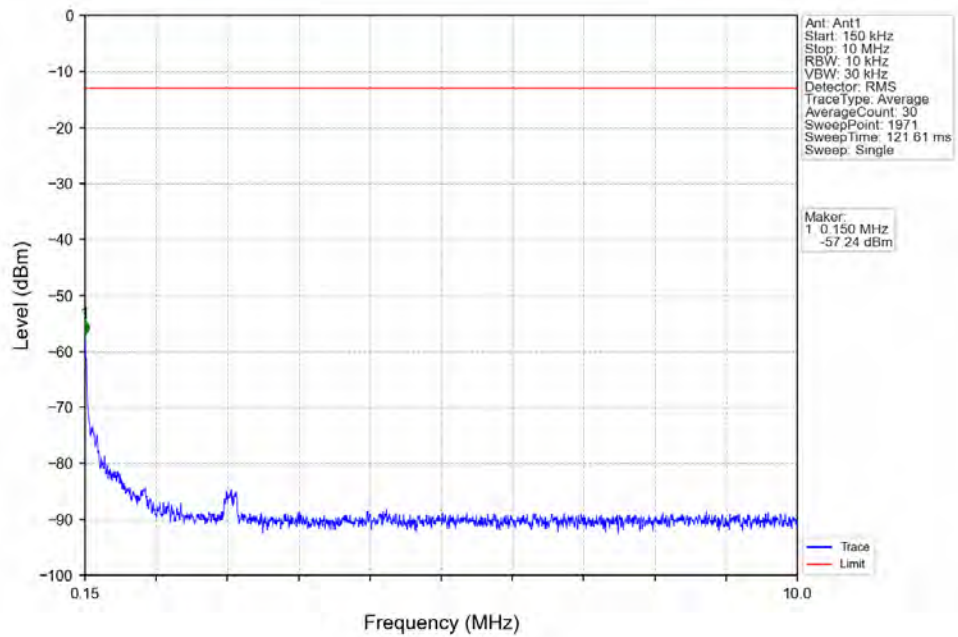
Band12 5MHz 16QAM LCH 701.5MHz RB 1 0 NTV



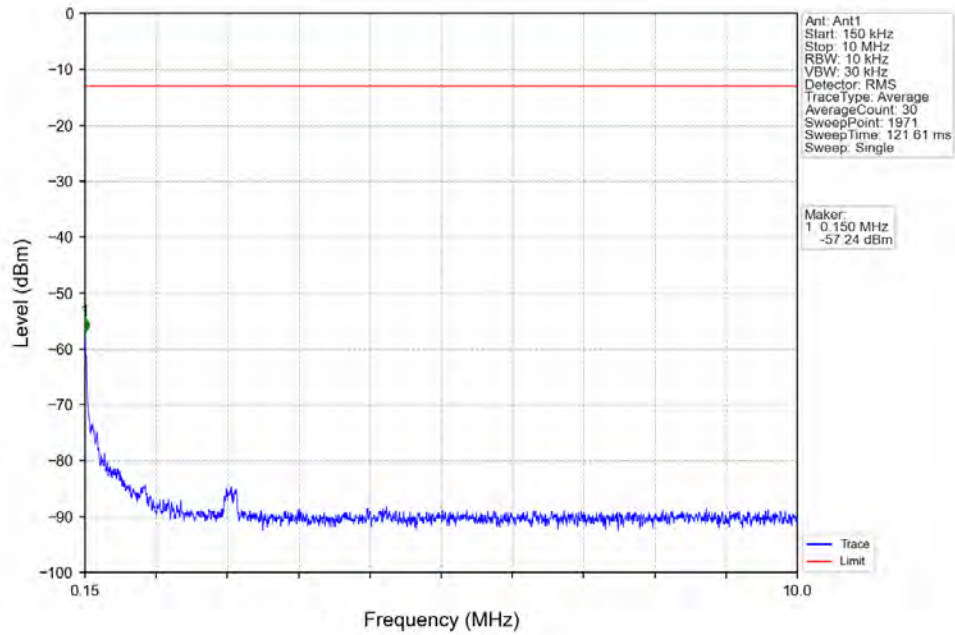
Band12 5MHz 16QAM LCH 701.5MHz RB 1 0 NTNV



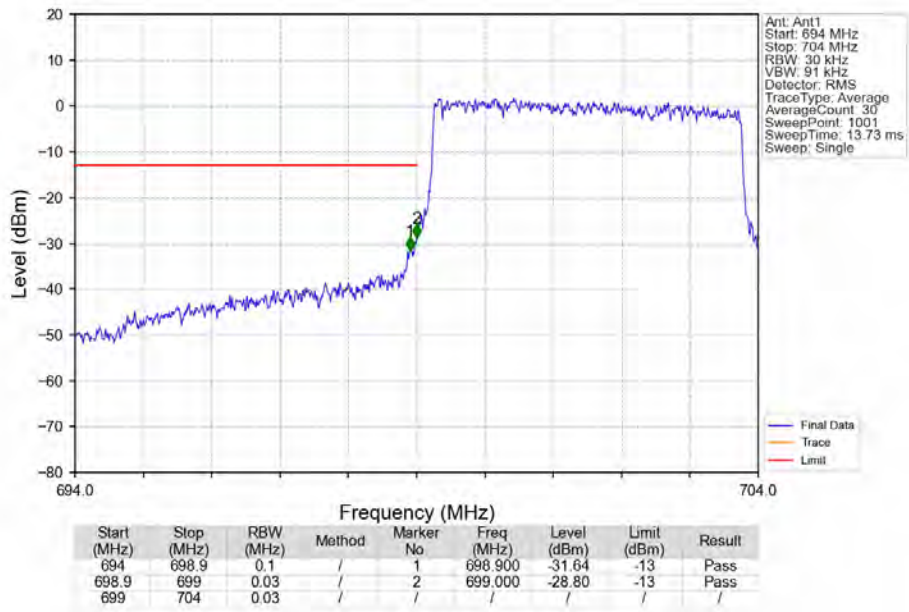
Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV



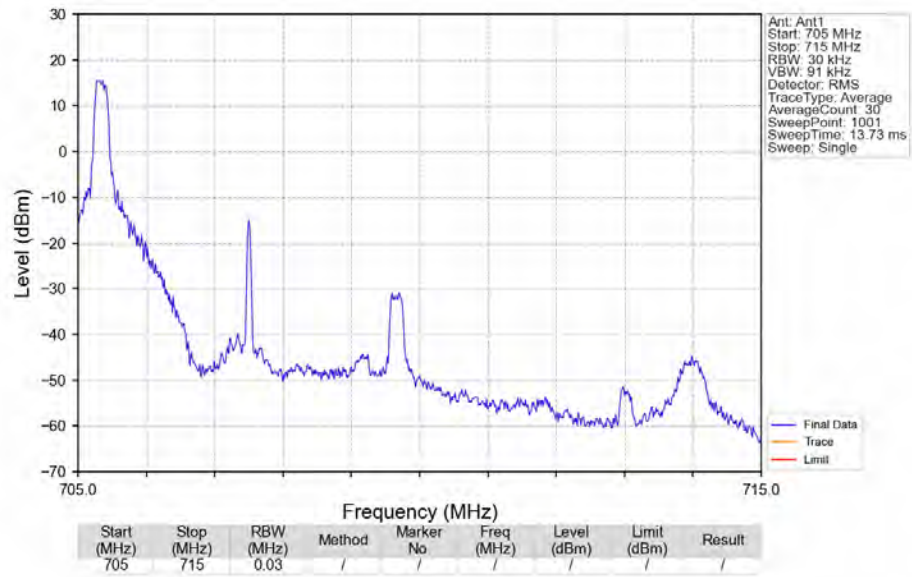
Band12 5MHz 16QAM LCH 701.5MHz RB 1 0 NTNV



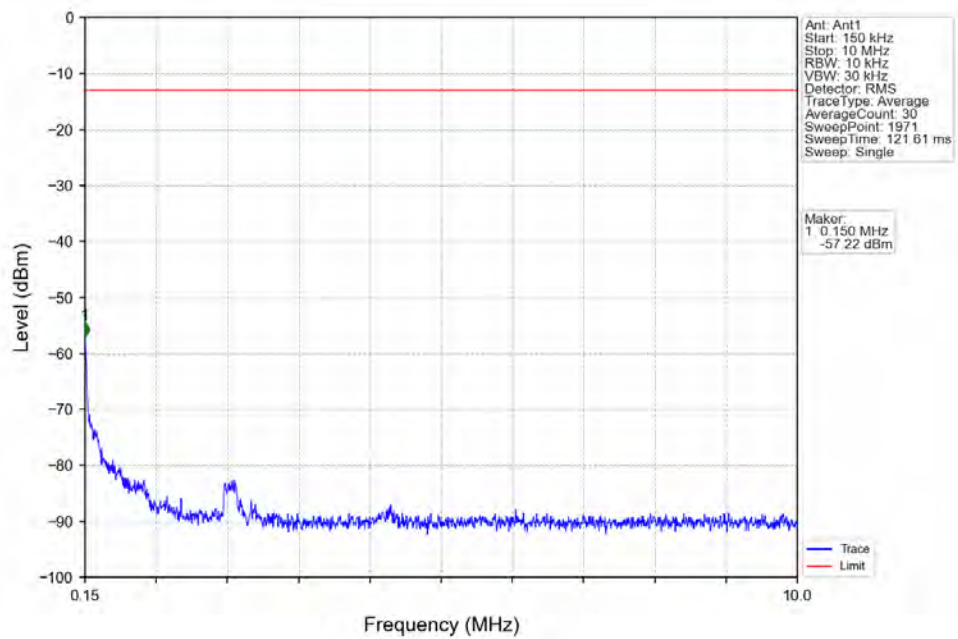
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



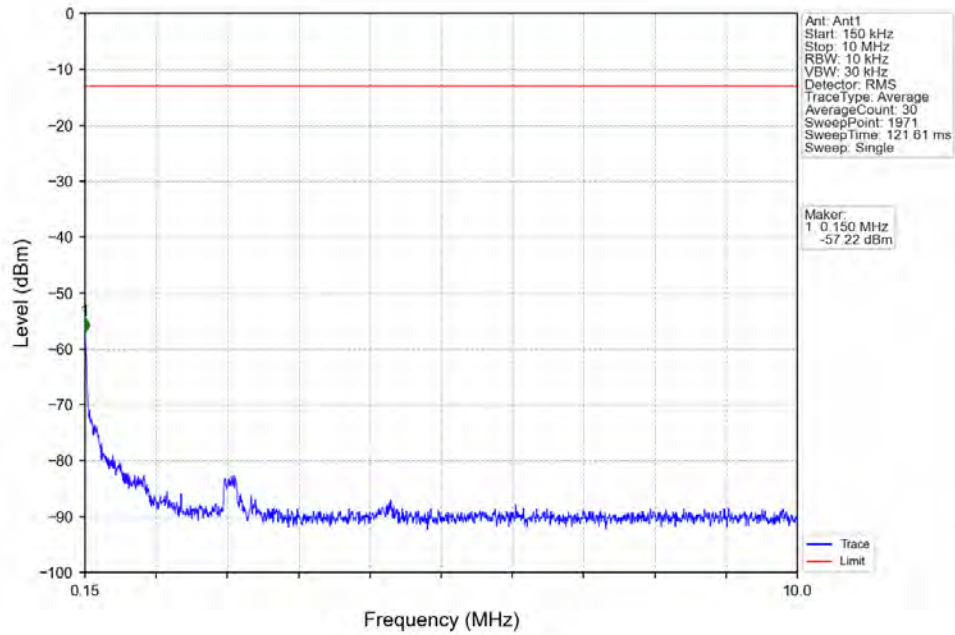
Band12_5MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



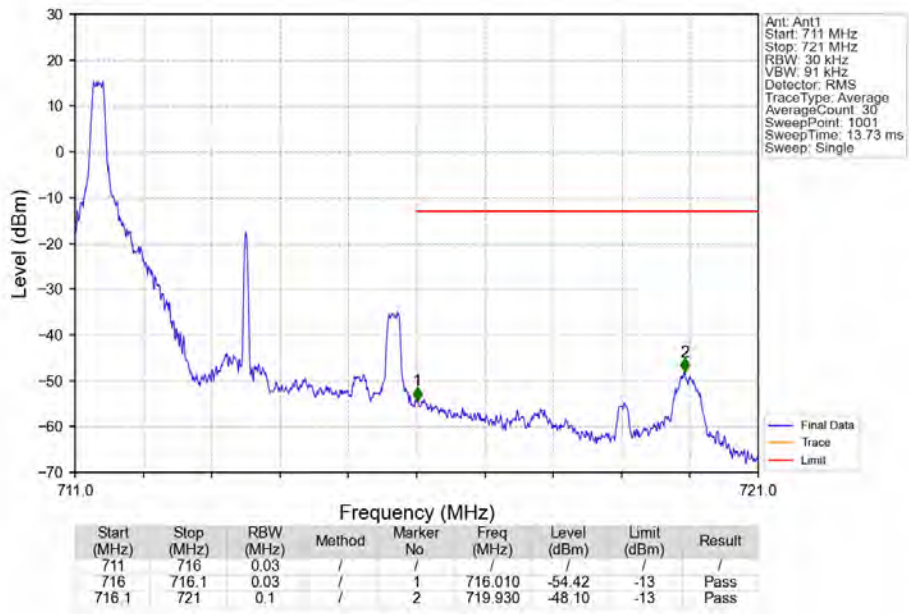
Band12_5MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



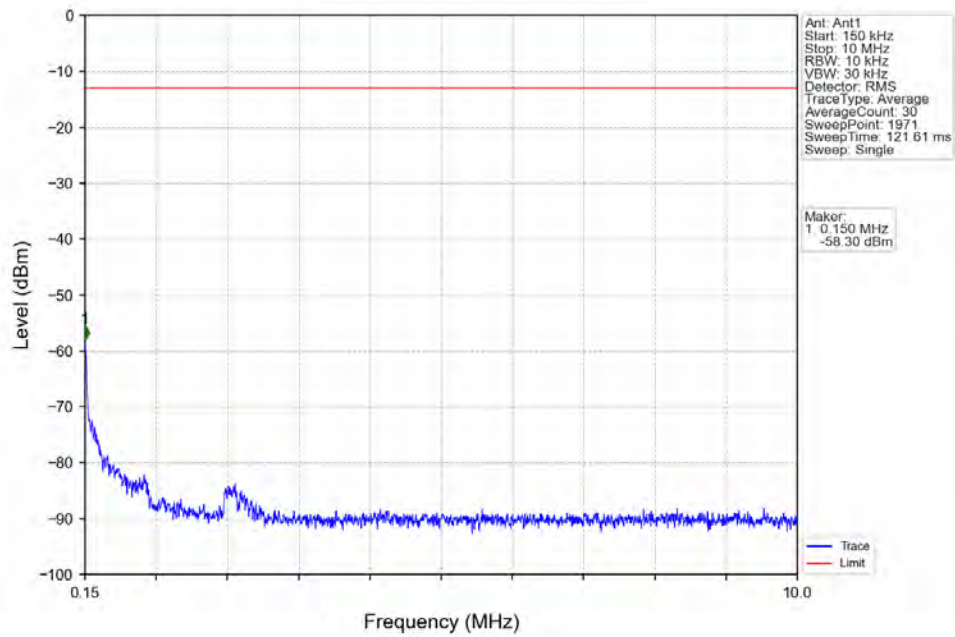
Band12 5MHz 16QAM MCH 707.5MHz RB 1 0 NTV



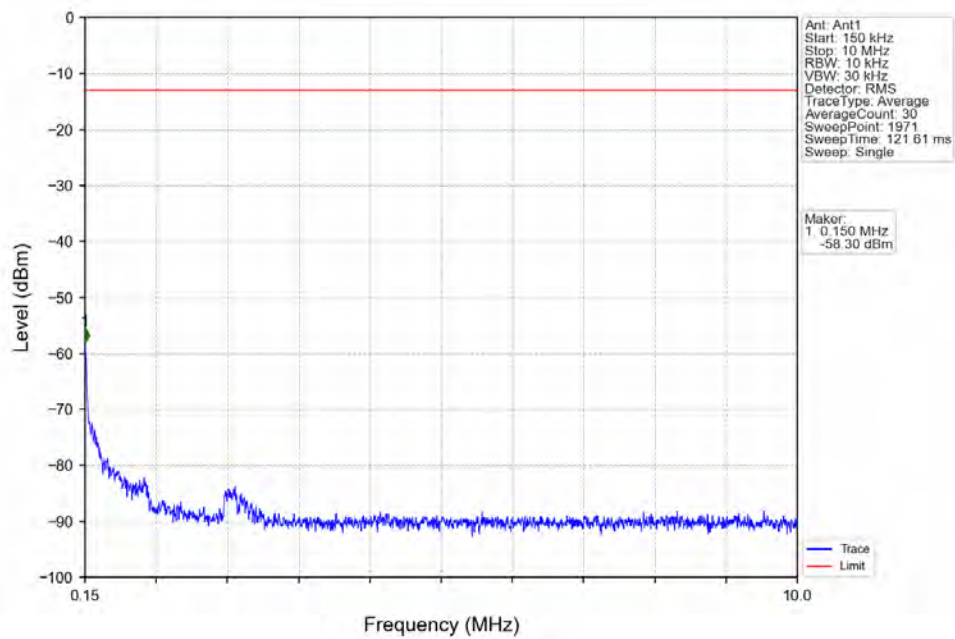
Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTV



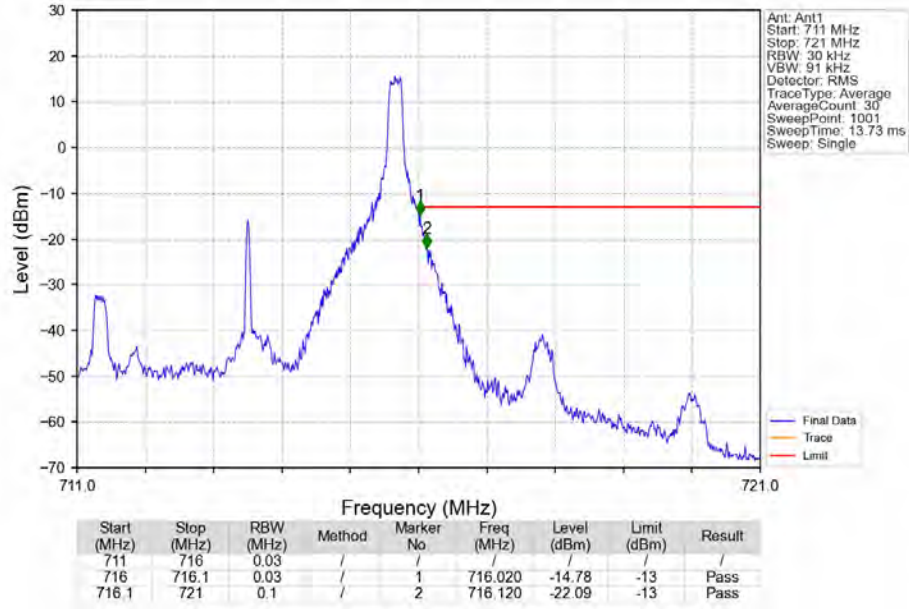
Band12 5MHz 16QAM HCH 713.5MHz RB 1 0 NTNV



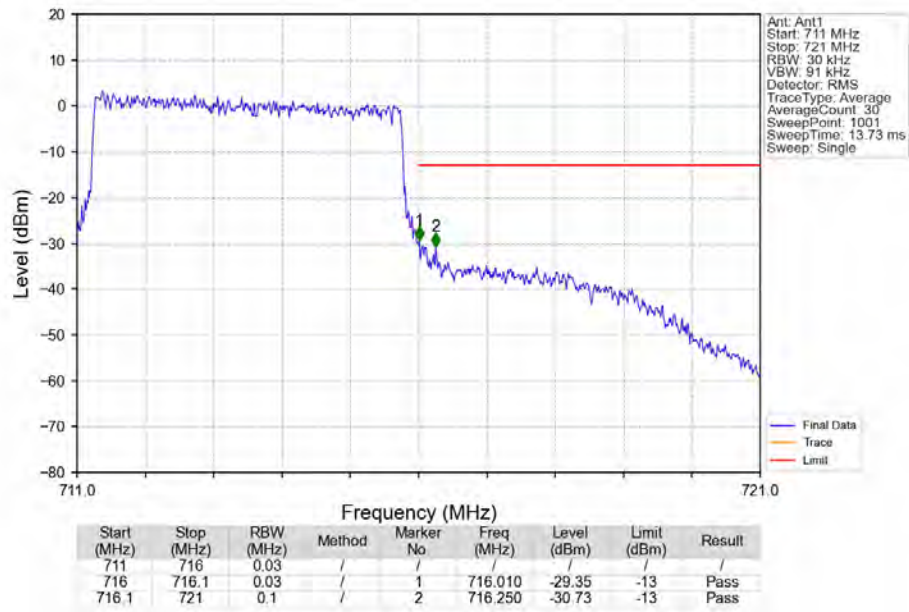
Band12 5MHz 16QAM HCH 713.5MHz RB 1 0 NTNV



Band12 5MHz 16QAM HCH 713.5MHz RB 1 24 NTNV



Band12 5MHz 16QAM HCH 713.5MHz RB 25 0 NTNV

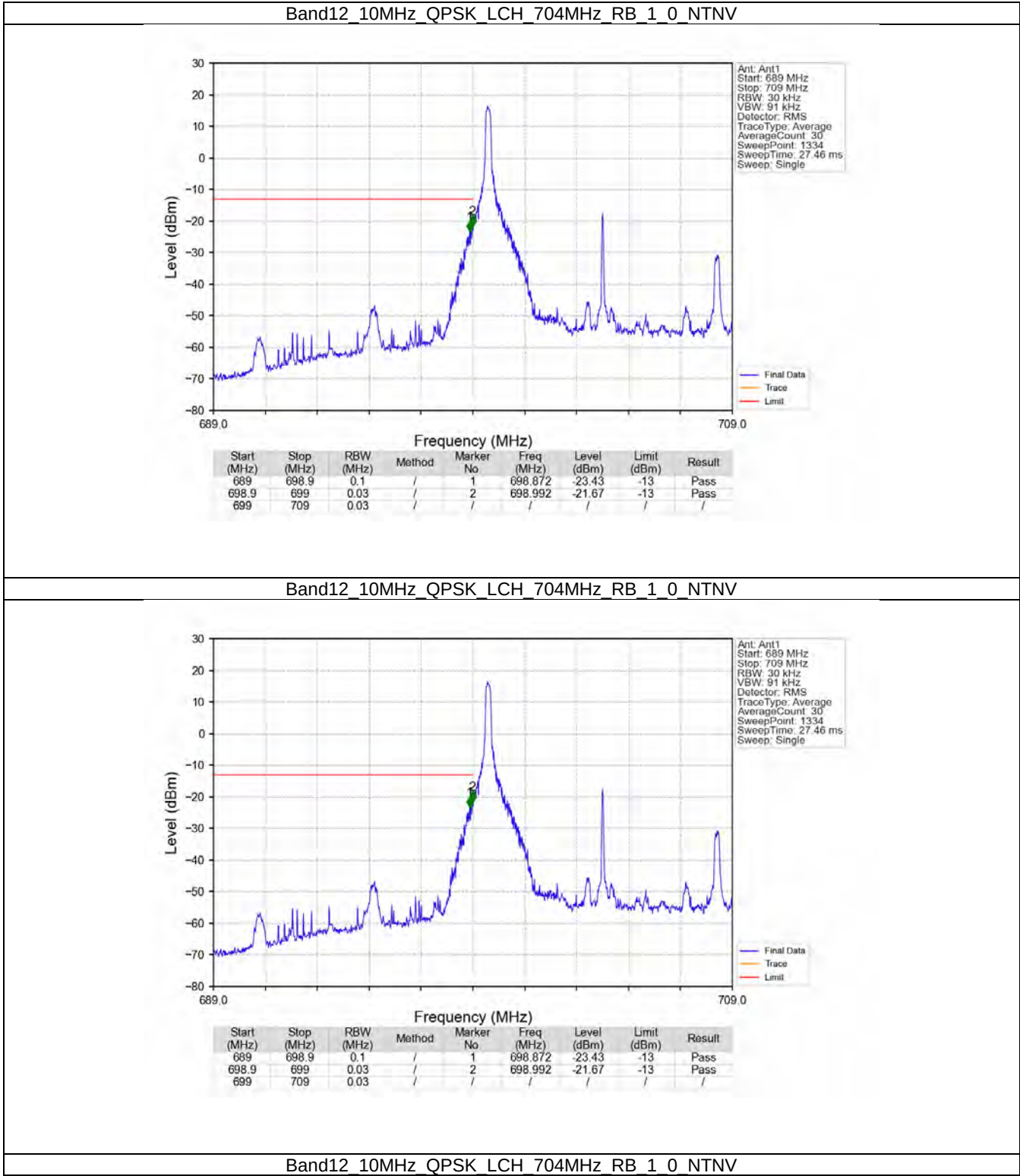


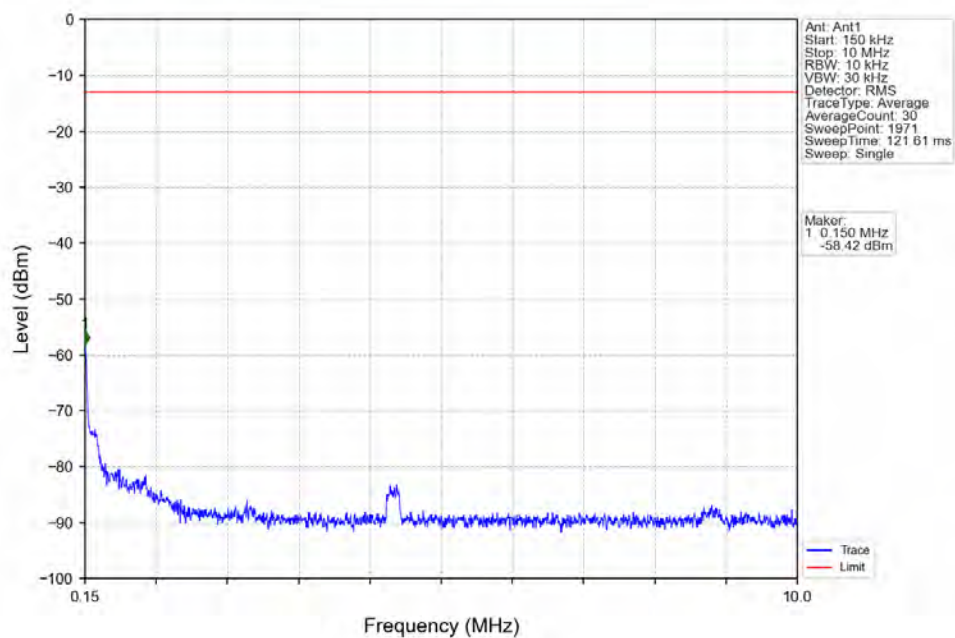
6.4 B12_10MHz

6.4.1 Test Result

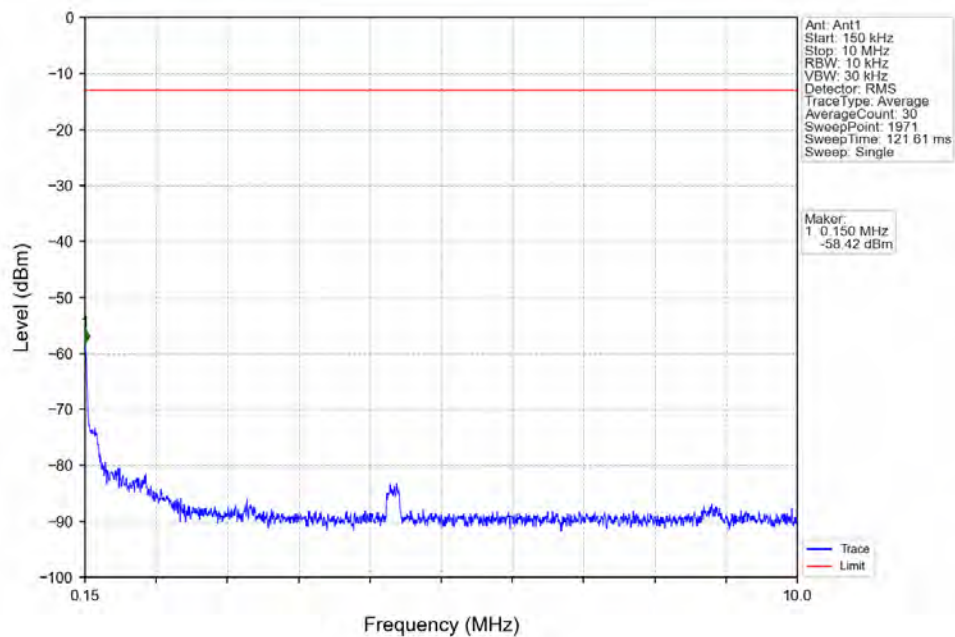
Band: 12 / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	704	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test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

6.4.2 Test Graph

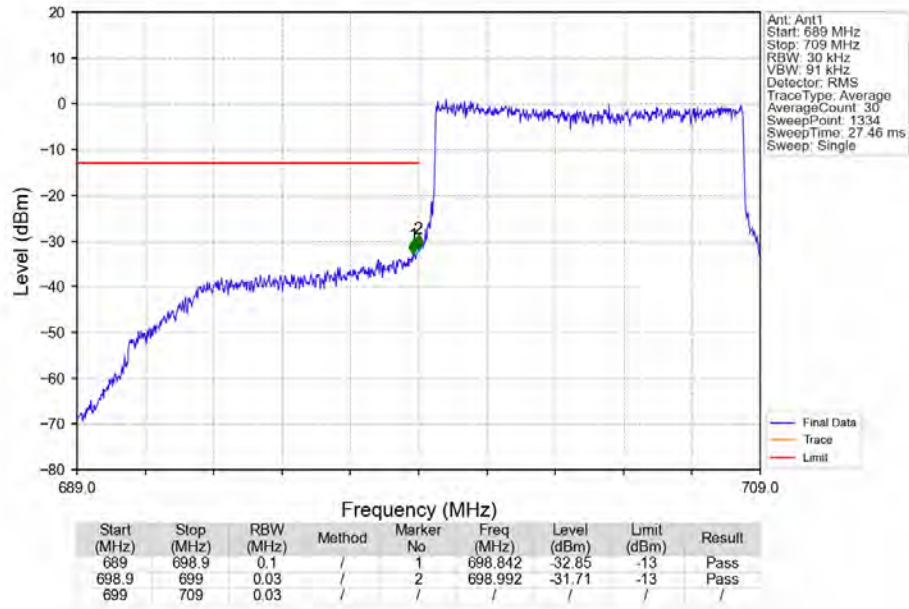




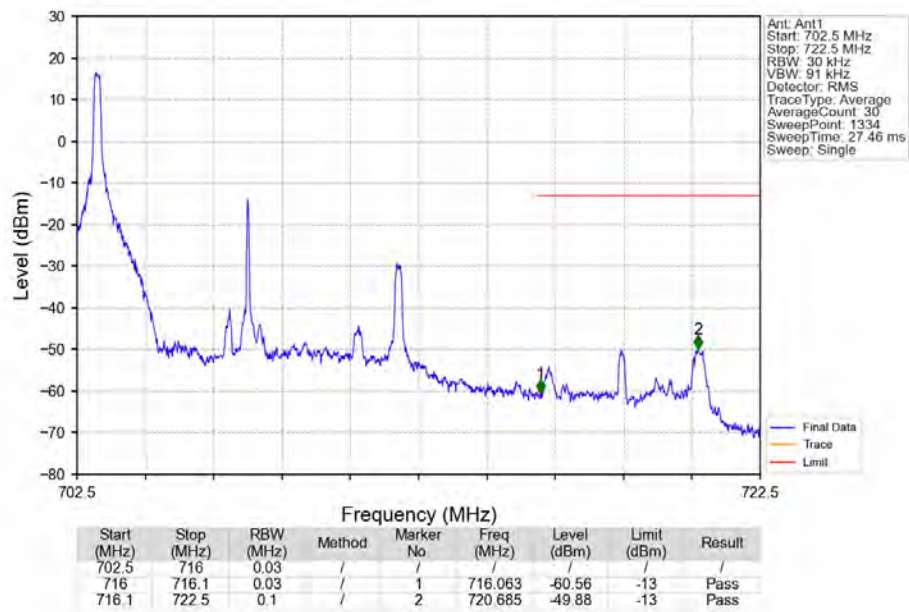
Band12_10MHz_QPSK_LCH_704MHz_RB_1_0_NTNV



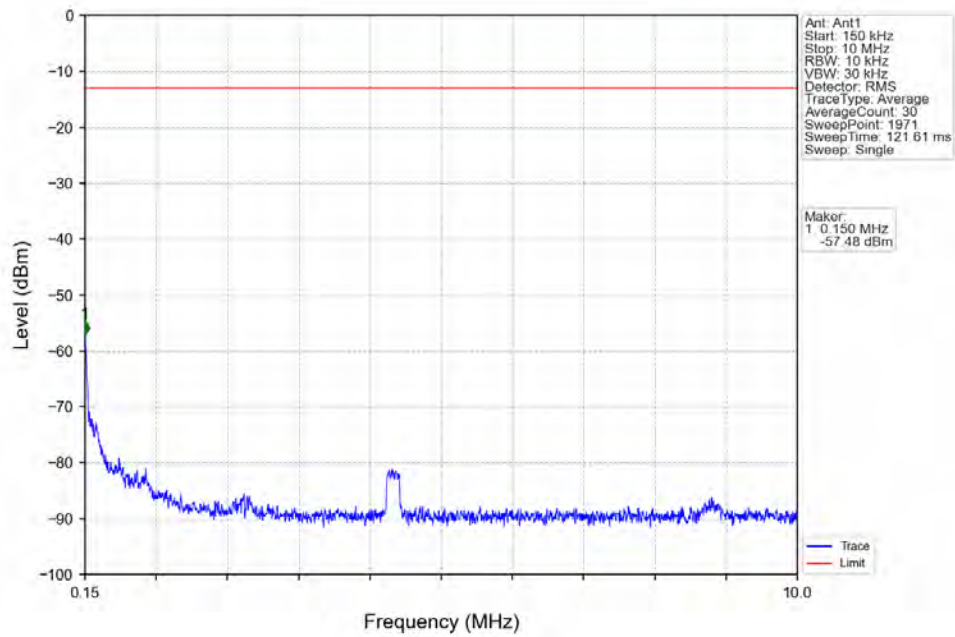
Band12 10MHz QPSK LCH 704MHz RB 50 0 NTNV



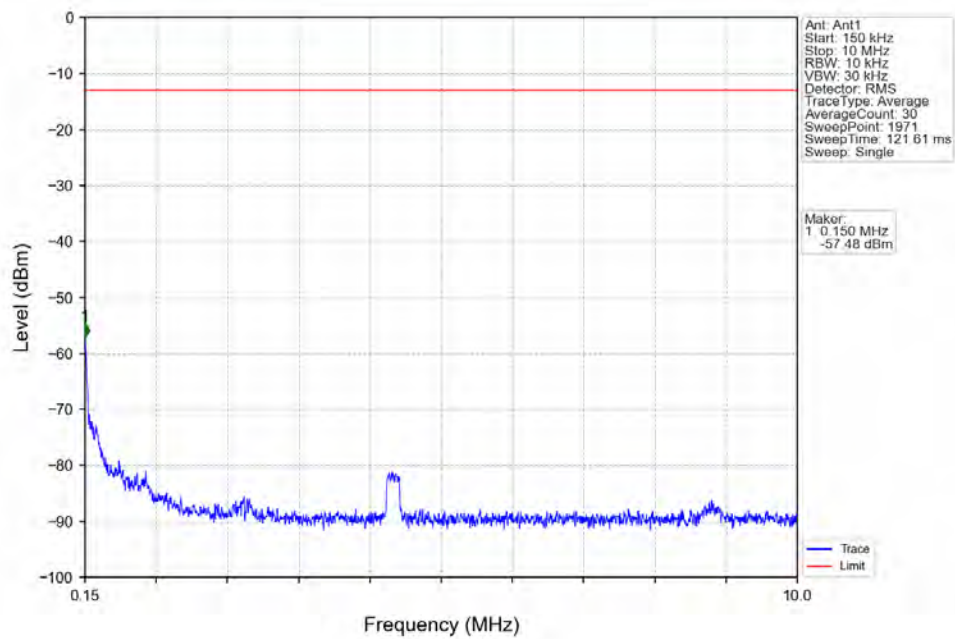
Band12 10MHz QPSK MCH 707.5MHz RB 1 0 NTNV



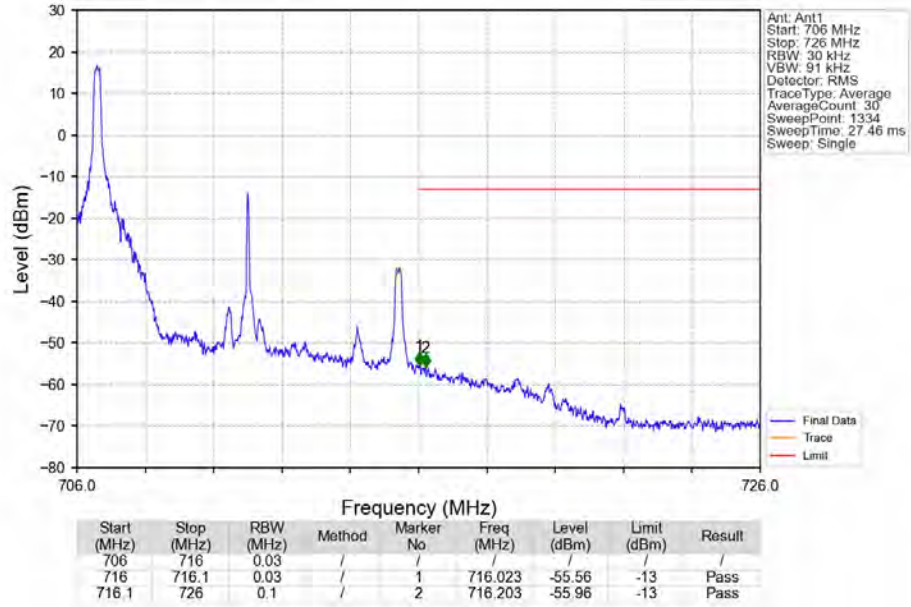
Band12_10MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



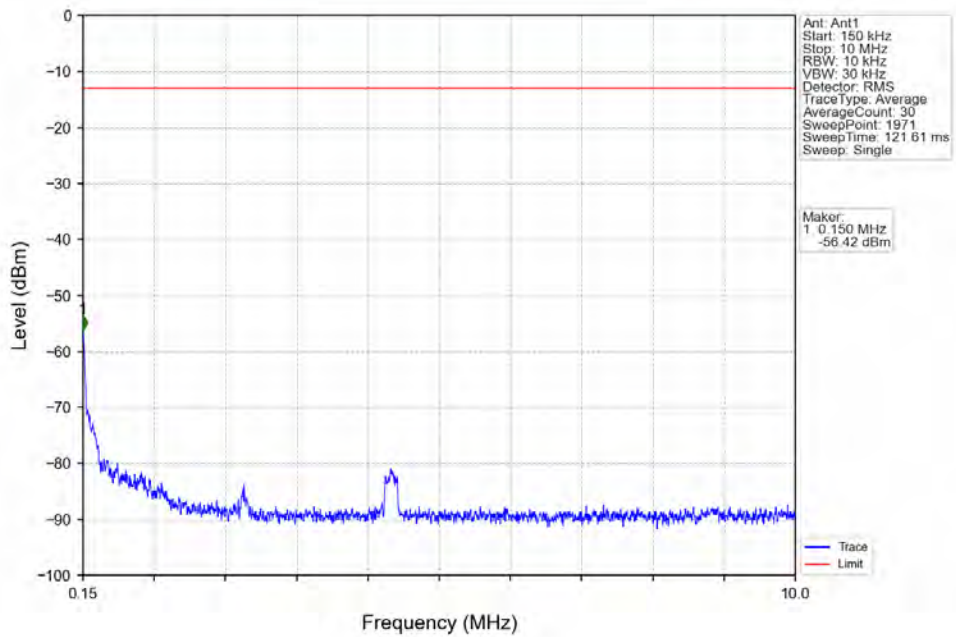
Band12_10MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



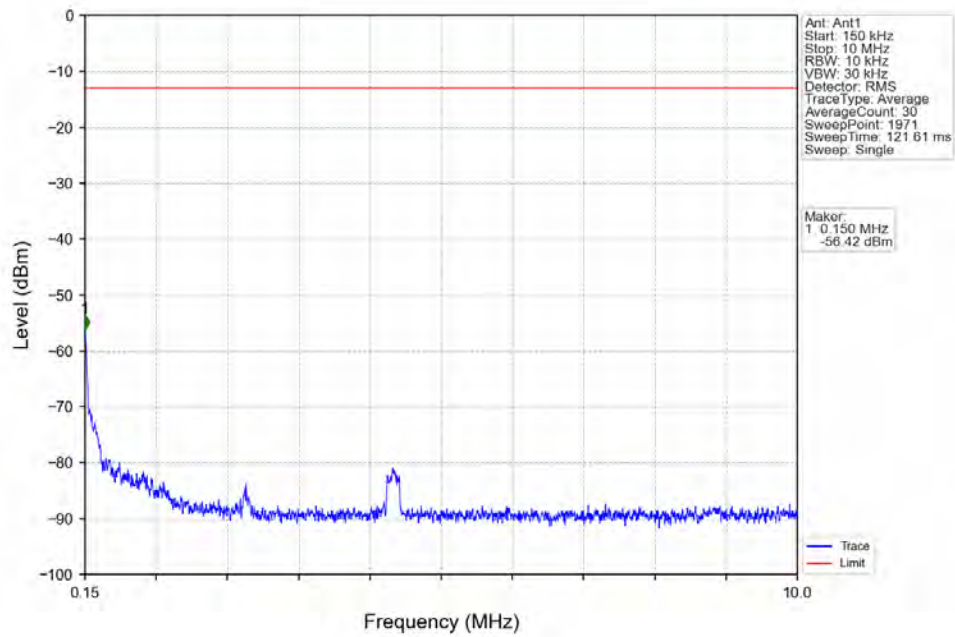
Band12_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



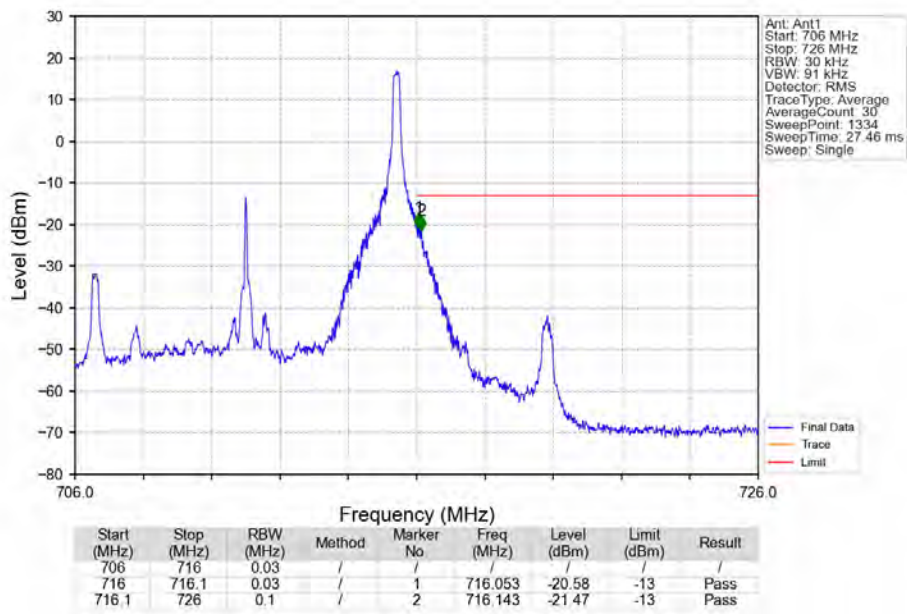
Band12_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



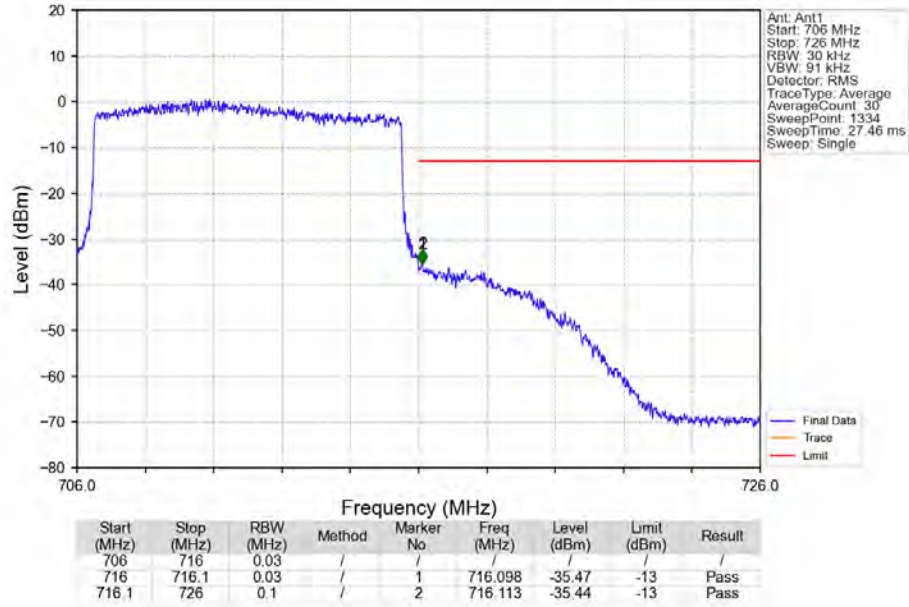
Band12_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



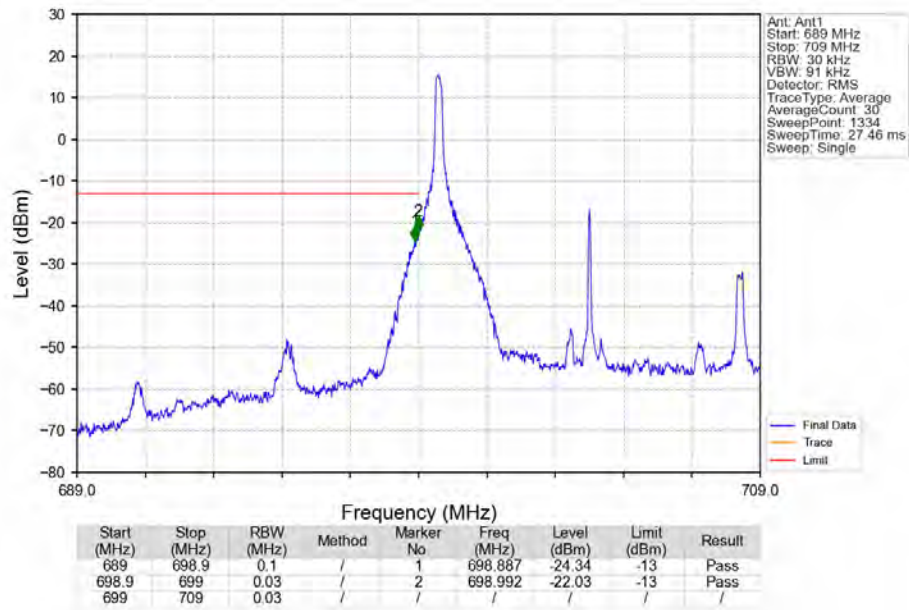
Band12_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



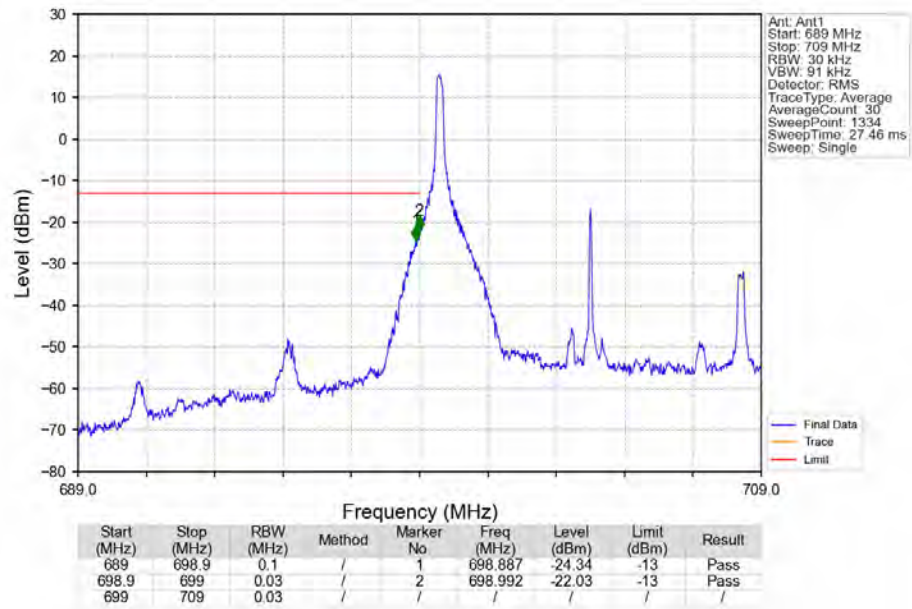
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



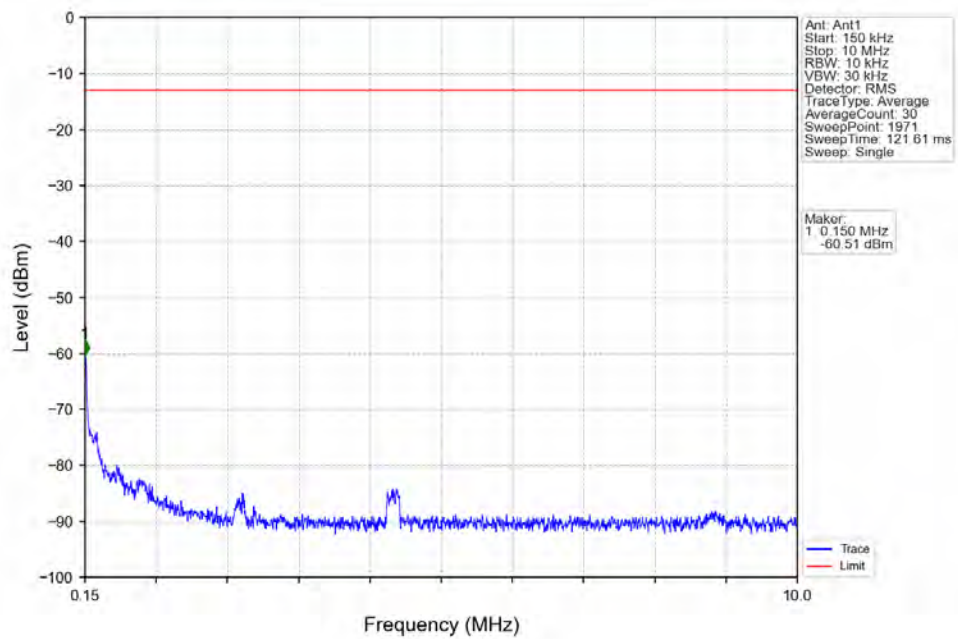
Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV



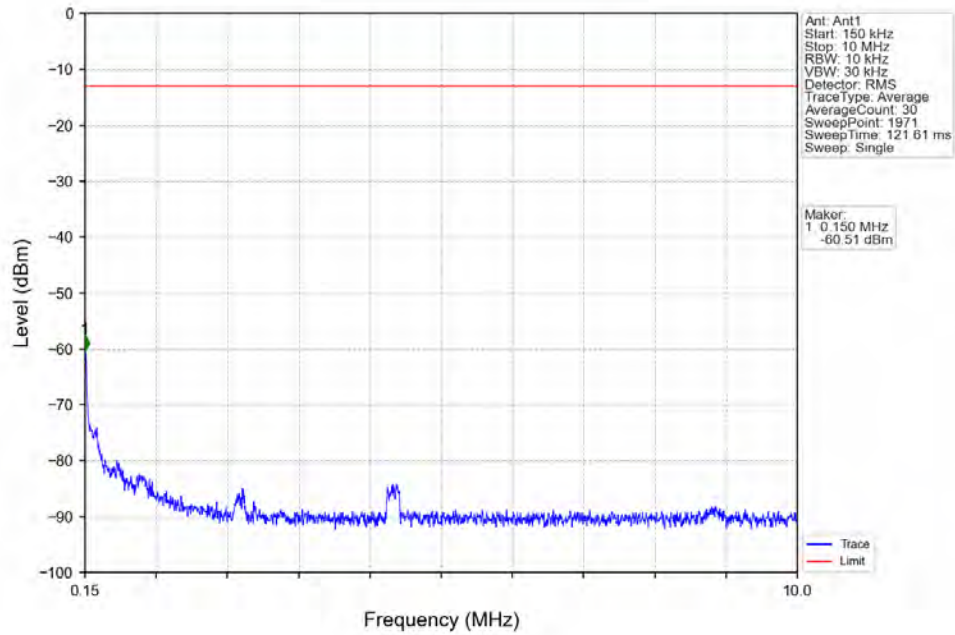
Band12 10MHz 16QAM LCH 704MHz RB 1 0 NTNV



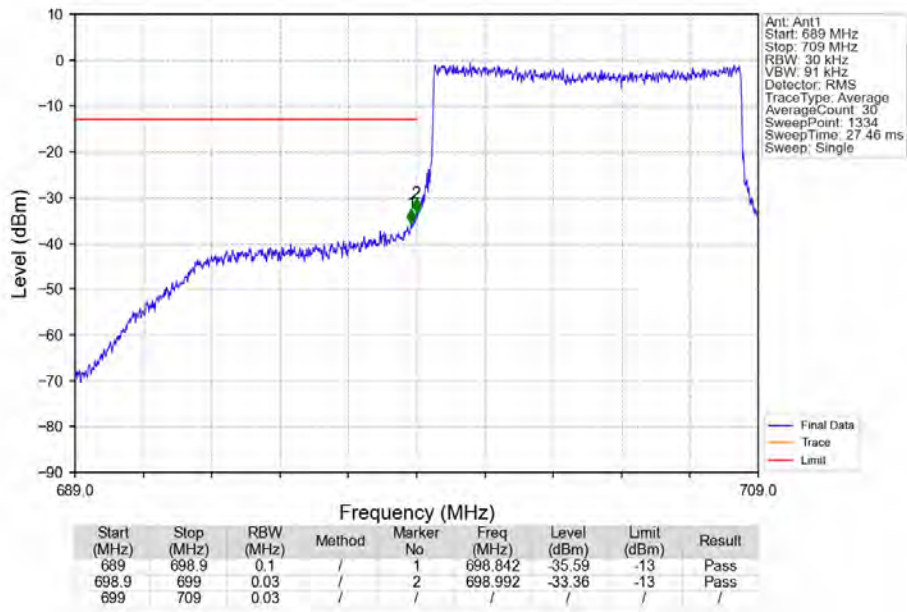
Band12 10MHz 16QAM LCH 704MHz RB 1 0 NTNV



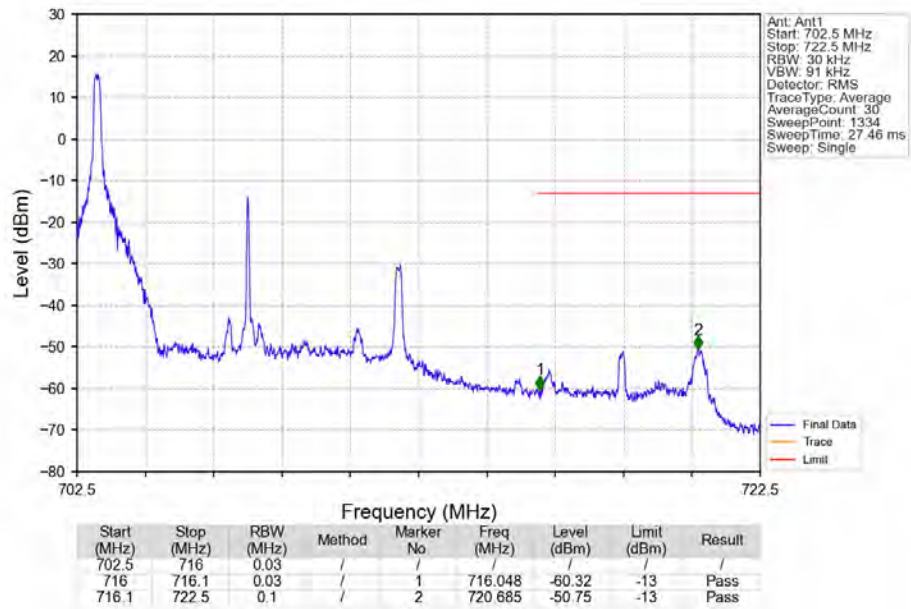
Band12 10MHz 16QAM LCH 704MHz RB 1 0 NTNV



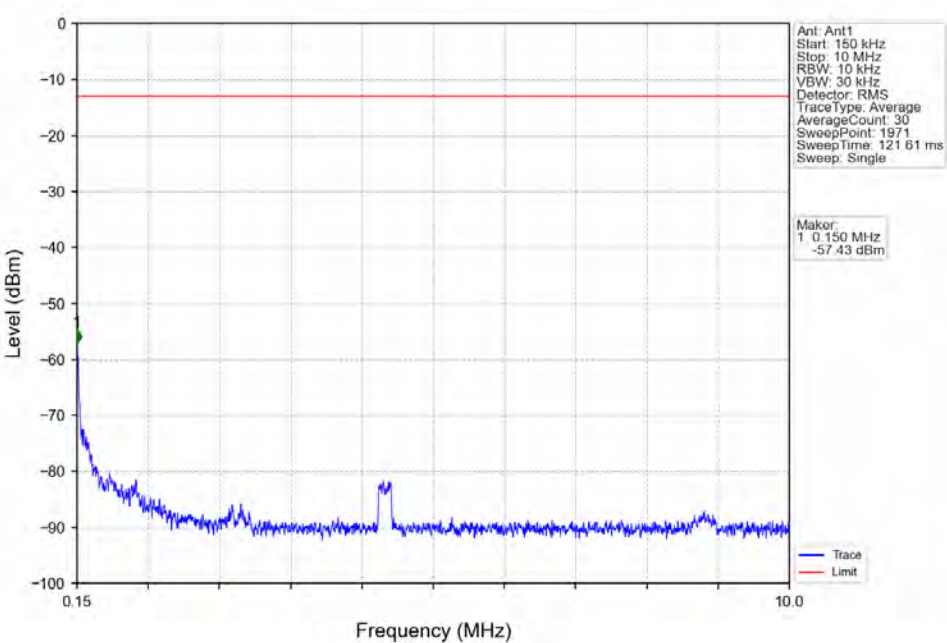
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



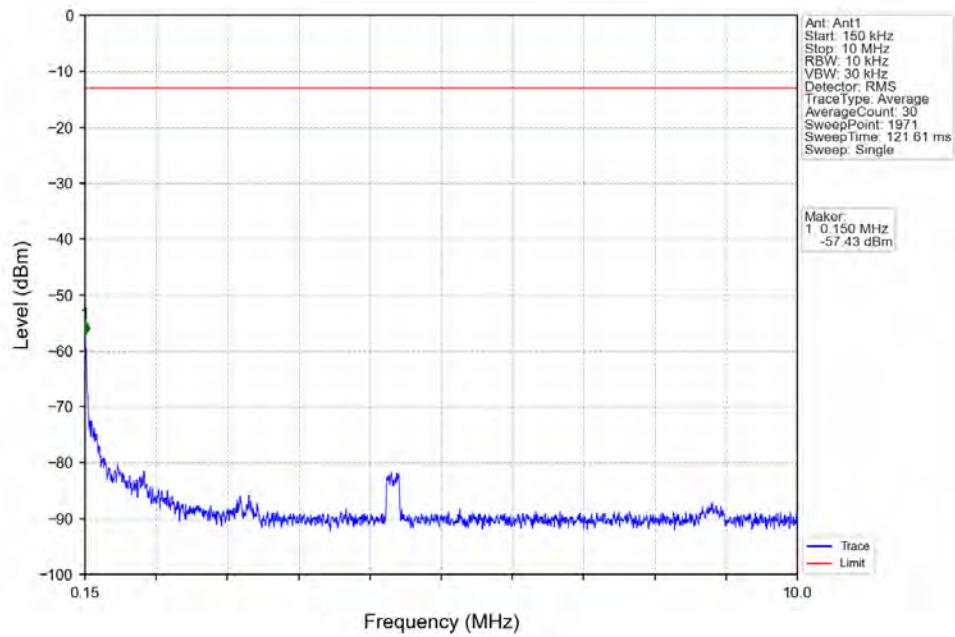
Band12 10MHz 16QAM MCH 707.5MHz RB 1 0 NTNV



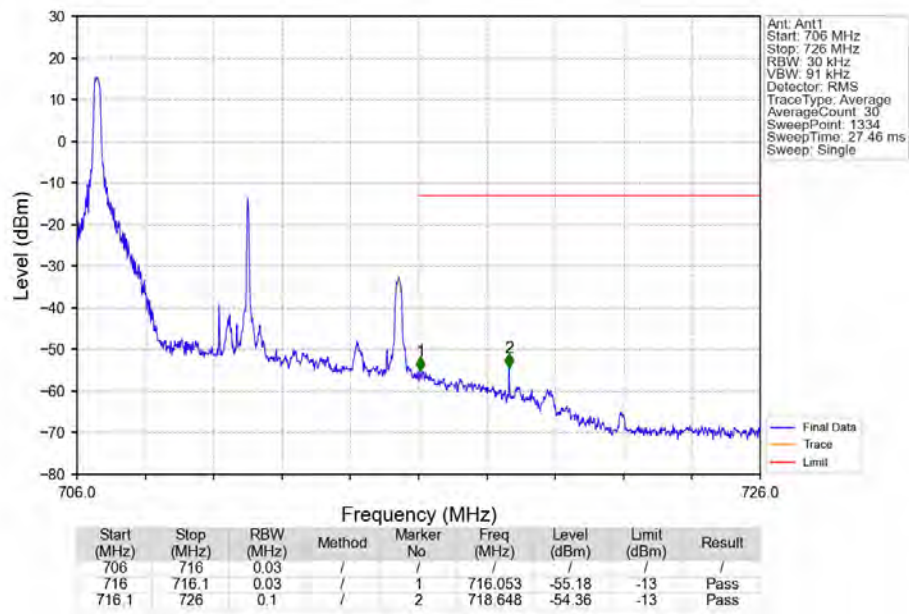
Band12 10MHz 16QAM MCH 707.5MHz RB 1 0 NTNV



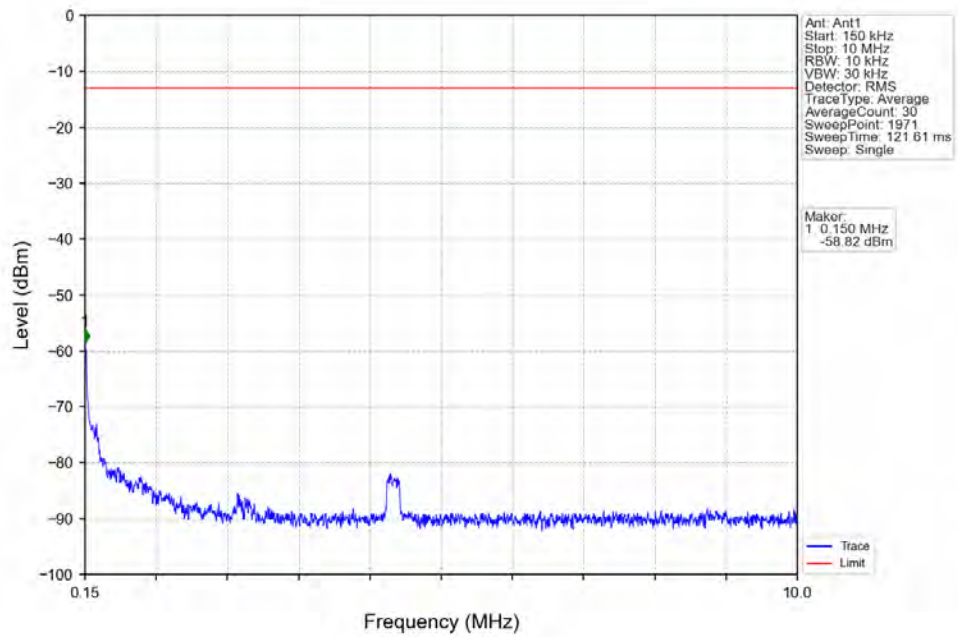
Band12 10MHz 16QAM MCH 707.5MHz RB 1 0 NTNV



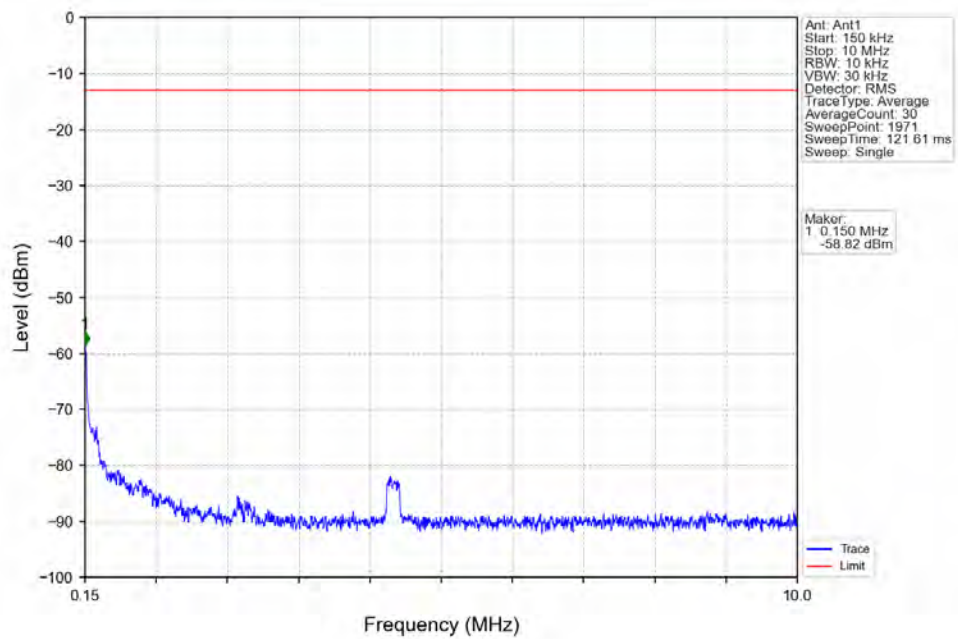
Band12_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



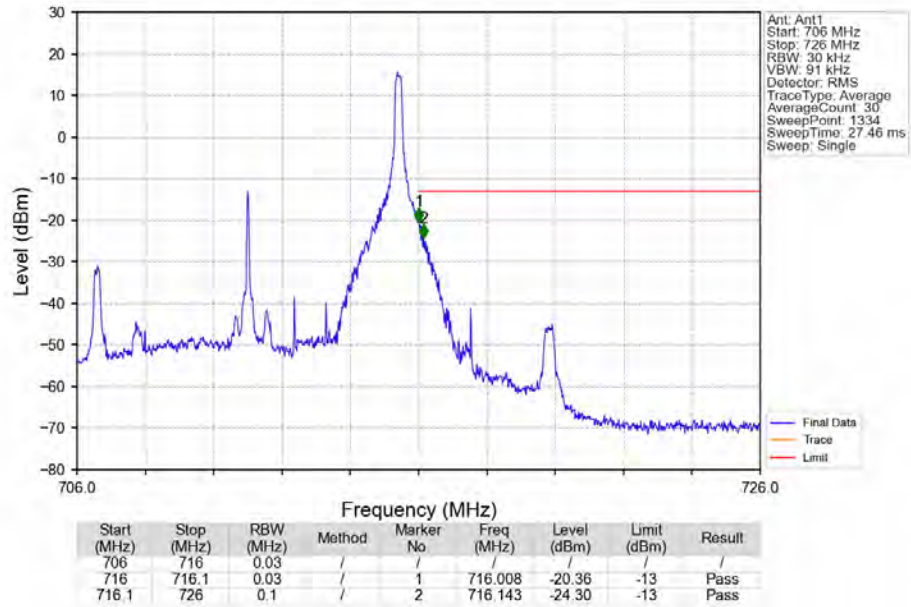
Band12_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



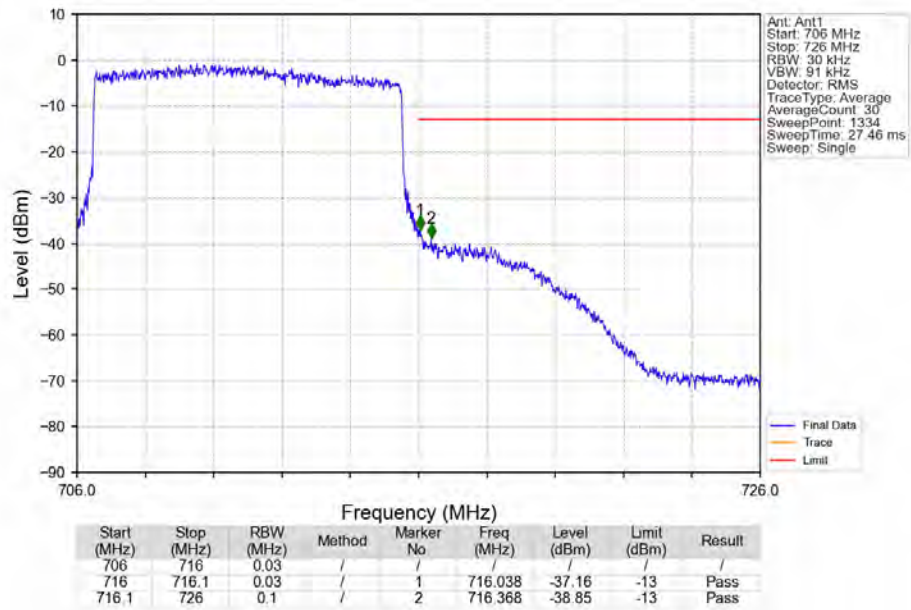
Band12_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



Band12 10MHz 16QAM HCH 711MHz RB 1 49 NTNV



Band12 10MHz 16QAM HCH 711MHz RB 50 0 NTNV



7. Form731

7.1 Form731_Power

7.1.1 Test Result

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	0.2606	0.0141	ppm	1M12G7D	27H	24.16
12	1.4	699.7	715.3	0.2004	0.0150	ppm	1M11W7D	27H	23.02
12	3	700.5	714.5	0.2118	0.0148	ppm	2M73G7D	27H	23.26
12	3	700.5	714.5	0.1832	0.0169	ppm	2M73W7D	27H	22.63
12	5	701.5	713.5	0.2014	0.0120	ppm	4M59G7D	27H	23.04
12	5	701.5	713.5	0.1675	0.0184	ppm	4M58W7D	27H	22.24
12	10	704	711	0.2612	0.0135	ppm	9M15G7D	27H	24.17
12	10	704	711	0.2228	0.0146	ppm	9M13W7D	27H	23.48

7.2 Form731_ERP

7.2.1 Test Result

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	0.0693	0.0141	ppm	1M12G7D	27H	18.41
12	1.4	699.7	715.3	0.0533	0.0150	ppm	1M11W7D	27H	17.27
12	3	700.5	714.5	0.0563	0.0148	ppm	2M73G7D	27H	17.51
12	3	700.5	714.5	0.0487	0.0169	ppm	2M73W7D	27H	16.88
12	5	701.5	713.5	0.0535	0.0120	ppm	4M59G7D	27H	17.29
12	5	701.5	713.5	0.0445	0.0184	ppm	4M58W7D	27H	16.49
12	10	704	711	0.0695	0.0135	ppm	9M15G7D	27H	18.42
12	10	704	711	0.0592	0.0146	ppm	9M13W7D	27H	17.73