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	20.99	0.42	19.26	<=34.77	Pass
			2	21.11	0.42	19.38	<=34.77	Pass
			5	20.98	0.42	19.25	<=34.77	Pass
		3	0	21.01	0.42	19.28	<=34.77	Pass
			2	21.03	0.42	19.3	<=34.77	Pass
			3	21.02	0.42	19.29	<=34.77	Pass
		6	0	20.01	0.42	18.28	<=34.77	Pass
	707.5	1	0	21.05	0.42	19.32	<=34.77	Pass
			2	21.16	0.42	19.43	<=34.77	Pass
			5	21.00	0.42	19.27	<=34.77	Pass
		3	0	20.75	0.42	19.02	<=34.77	Pass
			2	20.84	0.42	19.11	<=34.77	Pass
			3	20.73	0.42	19	<=34.77	Pass
		6	0	20.21	0.42	18.48	<=34.77	Pass
	715.3	1	0	19.29	0.42	17.56	<=34.77	Pass
			2	19.27	0.42	17.54	<=34.77	Pass
			5	19.23	0.42	17.5	<=34.77	Pass
		3	0	19.29	0.42	17.56	<=34.77	Pass
			2	19.27	0.42	17.54	<=34.77	Pass
			3	19.27	0.42	17.54	<=34.77	Pass
		6	0	19.15	0.42	17.42	<=34.77	Pass
16QAM	699.7	1	0	19.93	0.42	18.2	<=34.77	Pass
			2	20.00	0.42	18.27	<=34.77	Pass
			5	19.94	0.42	18.21	<=34.77	Pass
		3	0	20.04	0.42	18.31	<=34.77	Pass
			2	20.03	0.42	18.3	<=34.77	Pass
			3	20.00	0.42	18.27	<=34.77	Pass
		6	0	18.90	0.42	17.17	<=34.77	Pass
	707.5	1	0	19.92	0.42	18.19	<=34.77	Pass
			2	20.05	0.42	18.32	<=34.77	Pass
			5	19.88	0.42	18.15	<=34.77	Pass
		3	0	19.54	0.42	17.81	<=34.77	Pass
			2	19.61	0.42	17.88	<=34.77	Pass
			3	19.55	0.42	17.82	<=34.77	Pass
		6	0	18.86	0.42	17.13	<=34.77	Pass
	715.3	1	0	18.80	0.42	17.07	<=34.77	Pass
			2	18.85	0.42	17.12	<=34.77	Pass
			5	18.88	0.42	17.15	<=34.77	Pass
		3	0	19.04	0.42	17.31	<=34.77	Pass
			2	19.05	0.42	17.32	<=34.77	Pass
			3	19.07	0.42	17.34	<=34.77	Pass
		6	0	21.05	0.42	19.32	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.2 B12_3MHz_ERP

1.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	700.5	1	0	21.05	0.42	19.32	<=34.77	Pass
			7	21.18	0.42	19.45	<=34.77	Pass
			14	21.09	0.42	19.36	<=34.77	Pass
		8	0	20.13	0.42	18.4	<=34.77	Pass
			4	20.07	0.42	18.34	<=34.77	Pass
			7	19.99	0.42	18.26	<=34.77	Pass
		15	0	20.07	0.42	18.34	<=34.77	Pass
	707.5	1	0	21.10	0.42	19.37	<=34.77	Pass
			7	21.18	0.42	19.45	<=34.77	Pass
			14	21.07	0.42	19.34	<=34.77	Pass
		8	0	20.01	0.42	18.28	<=34.77	Pass
			4	20.12	0.42	18.39	<=34.77	Pass
			7	20.09	0.42	18.36	<=34.77	Pass
		15	0	19.88	0.42	18.15	<=34.77	Pass
	714.5	1	0	19.95	0.42	18.22	<=34.77	Pass
			7	19.59	0.42	17.86	<=34.77	Pass
			14	19.19	0.42	17.46	<=34.77	Pass
		8	0	19.26	0.42	17.53	<=34.77	Pass
			4	19.13	0.42	17.4	<=34.77	Pass
			7	19.02	0.42	17.29	<=34.77	Pass
		15	0	19.07	0.42	17.34	<=34.77	Pass
16QAM	700.5	1	0	20.16	0.42	18.43	<=34.77	Pass
			7	20.29	0.42	18.56	<=34.77	Pass
			14	20.14	0.42	18.41	<=34.77	Pass
		8	0	19.06	0.42	17.33	<=34.77	Pass
			4	19.00	0.42	17.27	<=34.77	Pass
			7	18.90	0.42	17.17	<=34.77	Pass
		15	0	18.96	0.42	17.23	<=34.77	Pass
	707.5	1	0	20.15	0.42	18.42	<=34.77	Pass
			7	20.22	0.42	18.49	<=34.77	Pass
			14	20.20	0.42	18.47	<=34.77	Pass
		8	0	18.84	0.42	17.11	<=34.77	Pass
			4	18.93	0.42	17.2	<=34.77	Pass
			7	18.96	0.42	17.23	<=34.77	Pass
		15	0	18.72	0.42	16.99	<=34.77	Pass
	714.5	1	0	18.97	0.42	17.24	<=34.77	Pass
			7	18.82	0.42	17.09	<=34.77	Pass
			14	18.88	0.42	17.15	<=34.77	Pass

		8	0	18.75	0.42	17.02	<=34.77	Pass
			4	18.74	0.42	17.01	<=34.77	Pass
			7	18.80	0.42	17.07	<=34.77	Pass
		15	0	18.32	0.42	16.59	<=34.77	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.3 B12_5MHz_ERP

1.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	701.5	1	0	20.83	0.42	19.1	<=34.77	Pass
			13	20.23	0.42	18.5	<=34.77	Pass
			24	20.02	0.42	18.29	<=34.77	Pass
		12	0	19.98	0.42	18.25	<=34.77	Pass
			6	19.72	0.42	17.99	<=34.77	Pass
			13	19.26	0.42	17.53	<=34.77	Pass
		25	0	19.39	0.42	17.66	<=34.77	Pass
	707.5	1	0	20.30	0.42	18.57	<=34.77	Pass
			13	20.43	0.42	18.7	<=34.77	Pass
			24	20.13	0.42	18.4	<=34.77	Pass
		12	0	18.94	0.42	17.21	<=34.77	Pass
			6	19.18	0.42	17.45	<=34.77	Pass
			13	19.02	0.42	17.29	<=34.77	Pass
		25	0	18.97	0.42	17.24	<=34.77	Pass
	713.5	1	0	19.89	0.42	18.16	<=34.77	Pass
			13	18.74	0.42	17.01	<=34.77	Pass
			24	18.83	0.42	17.1	<=34.77	Pass
		12	0	19.05	0.42	17.32	<=34.77	Pass
			6	18.76	0.42	17.03	<=34.77	Pass
			13	18.72	0.42	16.99	<=34.77	Pass
		25	0	18.87	0.42	17.14	<=34.77	Pass
16QAM	701.5	1	0	19.33	0.42	17.6	<=34.77	Pass
			13	19.38	0.42	17.65	<=34.77	Pass
			24	19.22	0.42	17.49	<=34.77	Pass
		12	0	18.48	0.42	16.75	<=34.77	Pass
			6	18.29	0.42	16.56	<=34.77	Pass
			13	18.19	0.42	16.46	<=34.77	Pass
		25	0	18.36	0.42	16.63	<=34.77	Pass
	707.5	1	0	19.23	0.42	17.5	<=34.77	Pass
			13	19.37	0.42	17.64	<=34.77	Pass
			24	19.31	0.42	17.58	<=34.77	Pass
		12	0	17.80	0.42	16.07	<=34.77	Pass
			6	18.07	0.42	16.34	<=34.77	Pass
			13	18.05	0.42	16.32	<=34.77	Pass
		25	0	17.84	0.42	16.11	<=34.77	Pass
	713.5	1	0	18.88	0.42	17.15	<=34.77	Pass
			13	18.26	0.42	16.53	<=34.77	Pass
			24	18.49	0.42	16.76	<=34.77	Pass
		12	0	18.24	0.42	16.51	<=34.77	Pass
			6	18.07	0.42	16.34	<=34.77	Pass
			13	18.06	0.42	16.33	<=34.77	Pass
		25	0	18.17	0.42	16.44	<=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	20.83	0.42	19.1	<=34.77	Pass
			25	20.24	0.42	18.51	<=34.77	Pass
			49	21.87	0.42	20.14	<=34.77	Pass
		25	0	19.53	0.42	17.8	<=34.77	Pass
			13	19.35	0.42	17.62	<=34.77	Pass
			25	19.75	0.42	18.02	<=34.77	Pass
		50	0	19.67	0.42	17.94	<=34.77	Pass
	707.5	1	0	19.90	0.42	18.17	<=34.77	Pass
			25	21.27	0.42	19.54	<=34.77	Pass
			49	19.09	0.42	17.36	<=34.77	Pass
		25	0	18.83	0.42	17.1	<=34.77	Pass
			13	19.19	0.42	17.46	<=34.77	Pass
			25	18.75	0.42	17.02	<=34.77	Pass
		50	0	18.79	0.42	17.06	<=34.77	Pass
	711	1	0	20.35	0.42	18.62	<=34.77	Pass
			25	19.98	0.42	18.25	<=34.77	Pass
			49	18.80	0.42	17.07	<=34.77	Pass
		25	0	21.51	0.42	19.78	<=34.77	Pass
			13	19.25	0.42	17.52	<=34.77	Pass
			25	19.10	0.42	17.37	<=34.77	Pass
		50	0	19.28	0.42	17.55	<=34.77	Pass
16QAM	704	1	0	19.26	0.42	17.53	<=34.77	Pass
			25	19.38	0.42	17.65	<=34.77	Pass
			49	19.14	0.42	17.41	<=34.77	Pass
		25	0	18.53	0.42	16.8	<=34.77	Pass
			13	18.29	0.42	16.56	<=34.77	Pass
			25	18.63	0.42	16.9	<=34.77	Pass
		50	0	18.58	0.42	16.85	<=34.77	Pass
	707.5	1	0	19.27	0.42	17.54	<=34.77	Pass
			25	19.45	0.42	17.72	<=34.77	Pass
			49	19.26	0.42	17.53	<=34.77	Pass
		25	0	17.69	0.42	15.96	<=34.77	Pass
			13	18.07	0.42	16.34	<=34.77	Pass
			25	17.68	0.42	15.95	<=34.77	Pass
		50	0	17.70	0.42	15.97	<=34.77	Pass
	711	1	0	19.40	0.42	17.67	<=34.77	Pass
			25	19.82	0.42	18.09	<=34.77	Pass
			49	18.73	0.42	17	<=34.77	Pass
		25	0	18.36	0.42	16.63	<=34.77	Pass
			13	18.27	0.42	16.54	<=34.77	Pass
			25	18.01	0.42	16.28	<=34.77	Pass
		50	0	18.22	0.42	16.49	<=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	-2.346	-0.0034	-2.5 to 2.5	Pass
					3.85	-1.030	-0.0015	-2.5 to 2.5	Pass
					4.43	-1.345	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-3.862	-0.0055	-2.5 to 2.5	Pass
				-20	3.85	-0.472	-0.0007	-2.5 to 2.5	Pass
				-10	3.85	-2.646	-0.0038	-2.5 to 2.5	Pass
				0	3.85	1.345	0.0019	-2.5 to 2.5	Pass
				10	3.85	-3.848	-0.0055	-2.5 to 2.5	Pass
				30	3.85	-0.758	-0.0011	-2.5 to 2.5	Pass
				40	3.85	-5.193	-0.0074	-2.5 to 2.5	Pass
				50	3.85	-2.918	-0.0042	-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	0.672	0.0009	-2.5 to 2.5	Pass
					4.43	-2.604	-0.0037	-2.5 to 2.5	Pass
				-30	3.85	0.086	0.0001	-2.5 to 2.5	Pass
				-20	3.85	-1.059	-0.0015	-2.5 to 2.5	Pass
				-10	3.85	-0.973	-0.0014	-2.5 to 2.5	Pass
				0	3.85	-3.004	-0.0042	-2.5 to 2.5	Pass
				10	3.85	-0.043	-0.0001	-2.5 to 2.5	Pass
				30	3.85	-1.459	-0.0021	-2.5 to 2.5	Pass
				40	3.85	1.831	0.0026	-2.5 to 2.5	Pass
				50	3.85	-3.734	-0.0053	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	-3.290	-0.0046	-2.5 to 2.5	Pass
					3.85	-1.359	-0.0019	-2.5 to 2.5	Pass
					4.43	-0.257	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	2.661	0.0037	-2.5 to 2.5	Pass
				-20	3.85	2.232	0.0031	-2.5 to 2.5	Pass
				-10	3.85	-0.129	-0.0002	-2.5 to 2.5	Pass
				0	3.85	-1.302	-0.0018	-2.5 to 2.5	Pass
				10	3.85	-0.086	-0.0001	-2.5 to 2.5	Pass
				30	3.85	0.000	0.0000	-2.5 to 2.5	Pass
				40	3.85	-3.176	-0.0044	-2.5 to 2.5	Pass
				50	3.85	-3.104	-0.0043	-2.5 to 2.5	Pass
16QAM	699.7	6	0	20	3.27	0.401	0.0006	-2.5 to 2.5	Pass
					3.85	-5.779	-0.0083	-2.5 to 2.5	Pass
					4.43	-0.129	-0.0002	-2.5 to 2.5	Pass
				-30	3.85	-1.101	-0.0016	-2.5 to 2.5	Pass
				-20	3.85	-1.402	-0.0020	-2.5 to 2.5	Pass
				-10	3.85	-0.129	-0.0002	-2.5 to 2.5	Pass
				0	3.85	-1.431	-0.0020	-2.5 to 2.5	Pass

				10	3.85	-2.904	-0.0042	-2.5 to 2.5	Pass
				30	3.85	-3.405	-0.0049	-2.5 to 2.5	Pass
				40	3.85	-1.202	-0.0017	-2.5 to 2.5	Pass
				50	3.85	-2.890	-0.0041	-2.5 to 2.5	Pass
	707.5	6	0	20	3.27	-1.259	-0.0018	-2.5 to 2.5	Pass
					3.85	1.345	0.0019	-2.5 to 2.5	Pass
					4.43	0.300	0.0004	-2.5 to 2.5	Pass
				-30	3.85	-1.459	-0.0021	-2.5 to 2.5	Pass
				-20	3.85	-1.659	-0.0023	-2.5 to 2.5	Pass
				-10	3.85	-2.646	-0.0037	-2.5 to 2.5	Pass
				0	3.85	-0.272	-0.0004	-2.5 to 2.5	Pass
				10	3.85	-0.043	-0.0001	-2.5 to 2.5	Pass
				30	3.85	-0.172	-0.0002	-2.5 to 2.5	Pass
				40	3.85	-1.202	-0.0017	-2.5 to 2.5	Pass
				50	3.85	-0.143	-0.0002	-2.5 to 2.5	Pass
	715.3	6	0	20	3.27	-1.516	-0.0021	-2.5 to 2.5	Pass
					3.85	-1.345	-0.0019	-2.5 to 2.5	Pass
					4.43	-1.287	-0.0018	-2.5 to 2.5	Pass
				-30	3.85	-2.904	-0.0041	-2.5 to 2.5	Pass
				-20	3.85	-1.245	-0.0017	-2.5 to 2.5	Pass
				-10	3.85	2.332	0.0033	-2.5 to 2.5	Pass
				0	3.85	-1.960	-0.0027	-2.5 to 2.5	Pass
				10	3.85	1.259	0.0018	-2.5 to 2.5	Pass
				30	3.85	-4.478	-0.0063	-2.5 to 2.5	Pass
				40	3.85	0.687	0.0010	-2.5 to 2.5	Pass
				50	3.85	-1.431	-0.0020	-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	0.286	0.0004	-2.5 to 2.5	Pass
					3.85	-3.376	-0.0048	-2.5 to 2.5	Pass
					4.43	-1.101	-0.0016	-2.5 to 2.5	Pass
				-30	3.85	-1.187	-0.0017	-2.5 to 2.5	Pass
				-20	3.85	-3.276	-0.0047	-2.5 to 2.5	Pass
				-10	3.85	-0.973	-0.0014	-2.5 to 2.5	Pass
				0	3.85	-1.016	-0.0015	-2.5 to 2.5	Pass
				10	3.85	-2.131	-0.0030	-2.5 to 2.5	Pass
				30	3.85	-0.343	-0.0005	-2.5 to 2.5	Pass
				40	3.85	-3.934	-0.0056	-2.5 to 2.5	Pass
				50	3.85	-2.832	-0.0040	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	2.131	0.0030	-2.5 to 2.5	Pass
					3.85	-0.486	-0.0007	-2.5 to 2.5	Pass
					4.43	-1.559	-0.0022	-2.5 to 2.5	Pass
				-30	3.85	0.730	0.0010	-2.5 to 2.5	Pass
				-20	3.85	1.345	0.0019	-2.5 to 2.5	Pass
				-10	3.85	-0.815	-0.0012	-2.5 to 2.5	Pass
				0	3.85	-1.574	-0.0022	-2.5 to 2.5	Pass

				10	3.85	1.774	0.0025	-2.5 to 2.5	Pass
				30	3.85	-1.645	-0.0023	-2.5 to 2.5	Pass
				40	3.85	-0.272	-0.0004	-2.5 to 2.5	Pass
				50	3.85	1.016	0.0014	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-0.472	-0.0007	-2.5 to 2.5	Pass
					3.85	-0.916	-0.0013	-2.5 to 2.5	Pass
					4.43	-1.302	-0.0018	-2.5 to 2.5	Pass
				-30	3.85	0.687	0.0010	-2.5 to 2.5	Pass
				-20	3.85	1.760	0.0025	-2.5 to 2.5	Pass
				-10	3.85	0.143	0.0002	-2.5 to 2.5	Pass
				0	3.85	1.116	0.0016	-2.5 to 2.5	Pass
				10	3.85	-3.419	-0.0048	-2.5 to 2.5	Pass
				30	3.85	-1.059	-0.0015	-2.5 to 2.5	Pass
				40	3.85	-0.072	-0.0001	-2.5 to 2.5	Pass
				50	3.85	0.644	0.0009	-2.5 to 2.5	Pass
16QAM	700.5	15	0	20	3.27	-1.931	-0.0028	-2.5 to 2.5	Pass
					3.85	-2.031	-0.0029	-2.5 to 2.5	Pass
					4.43	1.760	0.0025	-2.5 to 2.5	Pass
				-30	3.85	-2.074	-0.0030	-2.5 to 2.5	Pass
				-20	3.85	0.730	0.0010	-2.5 to 2.5	Pass
				-10	3.85	0.486	0.0007	-2.5 to 2.5	Pass
				0	3.85	-1.616	-0.0023	-2.5 to 2.5	Pass
				10	3.85	0.772	0.0011	-2.5 to 2.5	Pass
				30	3.85	-1.073	-0.0015	-2.5 to 2.5	Pass
				40	3.85	-2.232	-0.0032	-2.5 to 2.5	Pass
				50	3.85	-0.701	-0.0010	-2.5 to 2.5	Pass
	707.5	15	0	20	3.27	-0.715	-0.0010	-2.5 to 2.5	Pass
					3.85	2.460	0.0035	-2.5 to 2.5	Pass
					4.43	3.190	0.0045	-2.5 to 2.5	Pass
				-30	3.85	0.100	0.0001	-2.5 to 2.5	Pass
				-20	3.85	1.531	0.0022	-2.5 to 2.5	Pass
				-10	3.85	0.615	0.0009	-2.5 to 2.5	Pass
				0	3.85	0.272	0.0004	-2.5 to 2.5	Pass
				10	3.85	-1.531	-0.0022	-2.5 to 2.5	Pass
				30	3.85	0.315	0.0004	-2.5 to 2.5	Pass
				40	3.85	-2.246	-0.0032	-2.5 to 2.5	Pass
				50	3.85	-1.173	-0.0017	-2.5 to 2.5	Pass
	714.5	15	0	20	3.27	-2.418	-0.0034	-2.5 to 2.5	Pass
					3.85	-0.801	-0.0011	-2.5 to 2.5	Pass
					4.43	-0.386	-0.0005	-2.5 to 2.5	Pass
				-30	3.85	-1.273	-0.0018	-2.5 to 2.5	Pass
				-20	3.85	-1.559	-0.0022	-2.5 to 2.5	Pass
				-10	3.85	0.429	0.0006	-2.5 to 2.5	Pass
				0	3.85	1.931	0.0027	-2.5 to 2.5	Pass
				10	3.85	1.702	0.0024	-2.5 to 2.5	Pass
				30	3.85	2.804	0.0039	-2.5 to 2.5	Pass
				40	3.85	0.215	0.0003	-2.5 to 2.5	Pass
				50	3.85	0.529	0.0007	-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	-1.845	-0.0026	-2.5 to 2.5	Pass
					3.85	0.401	0.0006	-2.5 to 2.5	Pass
					4.43	-1.287	-0.0018	-2.5 to 2.5	Pass
				-30	3.85	-0.229	-0.0003	-2.5 to 2.5	Pass
				-20	3.85	-2.046	-0.0029	-2.5 to 2.5	Pass
				-10	3.85	-2.060	-0.0029	-2.5 to 2.5	Pass
				0	3.85	-2.604	-0.0037	-2.5 to 2.5	Pass
				10	3.85	-4.435	-0.0063	-2.5 to 2.5	Pass
				30	3.85	-2.289	-0.0033	-2.5 to 2.5	Pass
				40	3.85	-2.961	-0.0042	-2.5 to 2.5	Pass
				50	3.85	-0.429	-0.0006	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-0.057	-0.0001	-2.5 to 2.5	Pass
					3.85	-2.847	-0.0040	-2.5 to 2.5	Pass
					4.43	0.200	0.0003	-2.5 to 2.5	Pass
				-30	3.85	-1.388	-0.0020	-2.5 to 2.5	Pass
				-20	3.85	-1.502	-0.0021	-2.5 to 2.5	Pass
				-10	3.85	1.674	0.0024	-2.5 to 2.5	Pass
				0	3.85	-1.416	-0.0020	-2.5 to 2.5	Pass
				10	3.85	-1.259	-0.0018	-2.5 to 2.5	Pass
				30	3.85	-0.486	-0.0007	-2.5 to 2.5	Pass
				40	3.85	-1.459	-0.0021	-2.5 to 2.5	Pass
				50	3.85	-0.329	-0.0005	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-0.558	-0.0008	-2.5 to 2.5	Pass
					3.85	-4.020	-0.0056	-2.5 to 2.5	Pass
					4.43	-0.343	-0.0005	-2.5 to 2.5	Pass
				-30	3.85	0.257	0.0004	-2.5 to 2.5	Pass
				-20	3.85	0.587	0.0008	-2.5 to 2.5	Pass
				-10	3.85	-1.101	-0.0015	-2.5 to 2.5	Pass
				0	3.85	-1.988	-0.0028	-2.5 to 2.5	Pass
				10	3.85	-0.901	-0.0013	-2.5 to 2.5	Pass
				30	3.85	0.615	0.0009	-2.5 to 2.5	Pass
				40	3.85	-3.061	-0.0043	-2.5 to 2.5	Pass
				50	3.85	-1.173	-0.0016	-2.5 to 2.5	Pass
16QAM	701.5	25	0	20	3.27	0.315	0.0004	-2.5 to 2.5	Pass
					3.85	-2.203	-0.0031	-2.5 to 2.5	Pass
					4.43	0.029	0.0000	-2.5 to 2.5	Pass
				-30	3.85	1.459	0.0021	-2.5 to 2.5	Pass
				-20	3.85	-3.347	-0.0048	-2.5 to 2.5	Pass
				-10	3.85	-5.178	-0.0074	-2.5 to 2.5	Pass
				0	3.85	-4.206	-0.0060	-2.5 to 2.5	Pass
				10	3.85	0.830	0.0012	-2.5 to 2.5	Pass
				30	3.85	0.200	0.0003	-2.5 to 2.5	Pass
				40	3.85	-1.330	-0.0019	-2.5 to 2.5	Pass
				50	3.85	-1.616	-0.0023	-2.5 to 2.5	Pass
	707.5	25	0	20	3.27	-0.772	-0.0011	-2.5 to 2.5	Pass
					3.85	-3.147	-0.0044	-2.5 to 2.5	Pass
					4.43	-0.300	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	-3.133	-0.0044	-2.5 to 2.5	Pass
				-20	3.85	-1.059	-0.0015	-2.5 to 2.5	Pass
				-10	3.85	0.443	0.0006	-2.5 to 2.5	Pass
				0	3.85	1.130	0.0016	-2.5 to 2.5	Pass
				10	3.85	-0.415	-0.0006	-2.5 to 2.5	Pass

				30	3.85	0.687	0.0010	-2.5 to 2.5	Pass
				40	3.85	-1.073	-0.0015	-2.5 to 2.5	Pass
				50	3.85	1.044	0.0015	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-3.033	-0.0043	-2.5 to 2.5	Pass
					3.85	0.858	0.0012	-2.5 to 2.5	Pass
					4.43	-1.559	-0.0022	-2.5 to 2.5	Pass
				-30	3.85	-1.688	-0.0024	-2.5 to 2.5	Pass
				-20	3.85	-1.030	-0.0014	-2.5 to 2.5	Pass
				-10	3.85	1.330	0.0019	-2.5 to 2.5	Pass
				0	3.85	-2.046	-0.0029	-2.5 to 2.5	Pass
				10	3.85	0.658	0.0009	-2.5 to 2.5	Pass
				30	3.85	-3.891	-0.0055	-2.5 to 2.5	Pass
				40	3.85	-1.731	-0.0024	-2.5 to 2.5	Pass
				50	3.85	1.116	0.0016	-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	-1.631	-0.0023	-2.5 to 2.5	Pass
					3.85	-3.104	-0.0044	-2.5 to 2.5	Pass
					4.43	-0.672	-0.0010	-2.5 to 2.5	Pass
				-30	3.85	-0.672	-0.0010	-2.5 to 2.5	Pass
				-20	3.85	-0.930	-0.0013	-2.5 to 2.5	Pass
				-10	3.85	-3.376	-0.0048	-2.5 to 2.5	Pass
				0	3.85	-0.901	-0.0013	-2.5 to 2.5	Pass
				10	3.85	-2.160	-0.0031	-2.5 to 2.5	Pass
				30	3.85	-2.990	-0.0042	-2.5 to 2.5	Pass
				40	3.85	-3.090	-0.0044	-2.5 to 2.5	Pass
				50	3.85	-1.245	-0.0018	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	0.215	0.0003	-2.5 to 2.5	Pass
					3.85	1.845	0.0026	-2.5 to 2.5	Pass
					4.43	-1.259	-0.0018	-2.5 to 2.5	Pass
				-30	3.85	1.202	0.0017	-2.5 to 2.5	Pass
				-20	3.85	0.057	0.0001	-2.5 to 2.5	Pass
				-10	3.85	-0.930	-0.0013	-2.5 to 2.5	Pass
				0	3.85	-1.874	-0.0026	-2.5 to 2.5	Pass
				10	3.85	-3.433	-0.0049	-2.5 to 2.5	Pass
				30	3.85	-0.415	-0.0006	-2.5 to 2.5	Pass
				40	3.85	0.100	0.0001	-2.5 to 2.5	Pass
				50	3.85	0.472	0.0007	-2.5 to 2.5	Pass
	711	50	0	20	3.27	0.973	0.0014	-2.5 to 2.5	Pass
					3.85	-1.988	-0.0028	-2.5 to 2.5	Pass
					4.43	-1.459	-0.0021	-2.5 to 2.5	Pass
				-30	3.85	-0.572	-0.0008	-2.5 to 2.5	Pass
				-20	3.85	1.502	0.0021	-2.5 to 2.5	Pass
				-10	3.85	0.687	0.0010	-2.5 to 2.5	Pass
				0	3.85	-0.458	-0.0006	-2.5 to 2.5	Pass
				10	3.85	-1.731	-0.0024	-2.5 to 2.5	Pass

				30	3.85	-0.200	-0.0003	-2.5 to 2.5	Pass
				40	3.85	-0.415	-0.0006	-2.5 to 2.5	Pass
				50	3.85	-1.731	-0.0024	-2.5 to 2.5	Pass
16QAM	704	50	0	20	3.27	-0.930	-0.0013	-2.5 to 2.5	Pass
					3.85	-0.300	-0.0004	-2.5 to 2.5	Pass
					4.43	-3.505	-0.0050	-2.5 to 2.5	Pass
				-30	3.85	0.086	0.0001	-2.5 to 2.5	Pass
				-20	3.85	-2.046	-0.0029	-2.5 to 2.5	Pass
				-10	3.85	-3.576	-0.0051	-2.5 to 2.5	Pass
				0	3.85	-1.874	-0.0027	-2.5 to 2.5	Pass
				10	3.85	-2.303	-0.0033	-2.5 to 2.5	Pass
				30	3.85	-1.845	-0.0026	-2.5 to 2.5	Pass
				40	3.85	-0.758	-0.0011	-2.5 to 2.5	Pass
				50	3.85	-2.861	-0.0041	-2.5 to 2.5	Pass
	707.5	50	0	20	3.27	-3.934	-0.0056	-2.5 to 2.5	Pass
					3.85	2.418	0.0034	-2.5 to 2.5	Pass
					4.43	-1.345	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-1.974	-0.0028	-2.5 to 2.5	Pass
				-20	3.85	-1.574	-0.0022	-2.5 to 2.5	Pass
				-10	3.85	-1.903	-0.0027	-2.5 to 2.5	Pass
				0	3.85	1.974	0.0028	-2.5 to 2.5	Pass
				10	3.85	-0.300	-0.0004	-2.5 to 2.5	Pass
				30	3.85	1.574	0.0022	-2.5 to 2.5	Pass
				40	3.85	-0.401	-0.0006	-2.5 to 2.5	Pass
				50	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-1.059	-0.0015	-2.5 to 2.5	Pass
					3.85	-0.715	-0.0010	-2.5 to 2.5	Pass
					4.43	-1.030	-0.0014	-2.5 to 2.5	Pass
				-30	3.85	-1.202	-0.0017	-2.5 to 2.5	Pass
				-20	3.85	-1.988	-0.0028	-2.5 to 2.5	Pass
				-10	3.85	-1.545	-0.0022	-2.5 to 2.5	Pass
				0	3.85	-2.847	-0.0040	-2.5 to 2.5	Pass
				10	3.85	0.858	0.0012	-2.5 to 2.5	Pass
				30	3.85	0.415	0.0006	-2.5 to 2.5	Pass
				40	3.85	-1.445	-0.0020	-2.5 to 2.5	Pass
				50	3.85	-1.431	-0.0020	-2.5 to 2.5	Pass

3. Modulation Characteristics

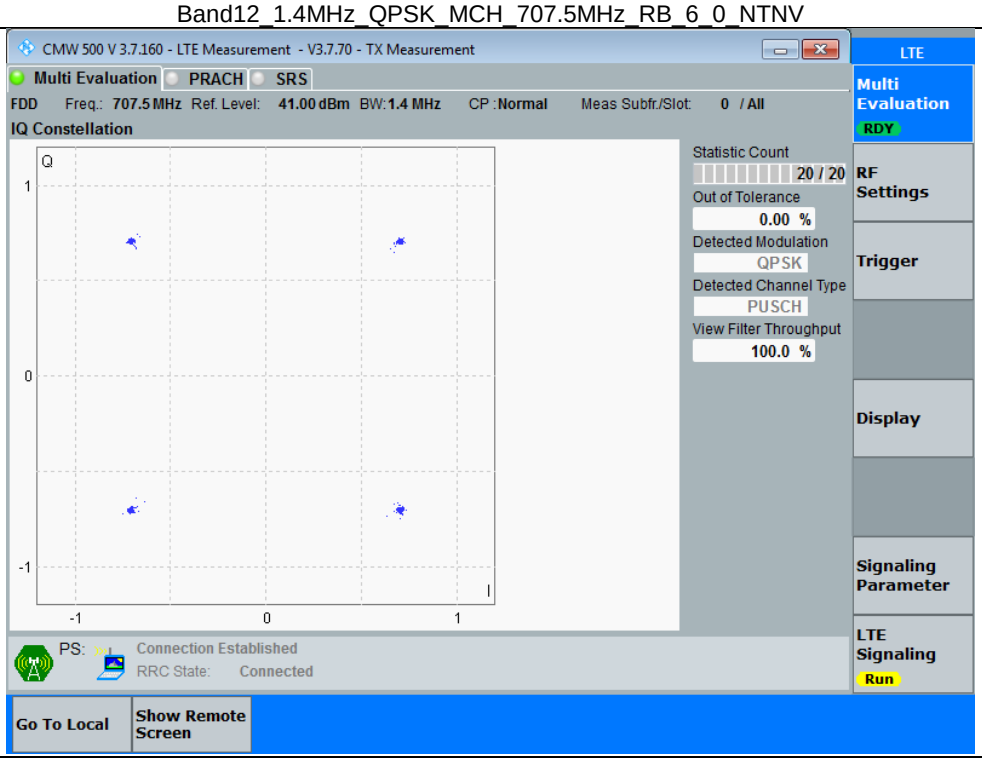
3.1 B12_1.4MHz

3.1.1 Test Result

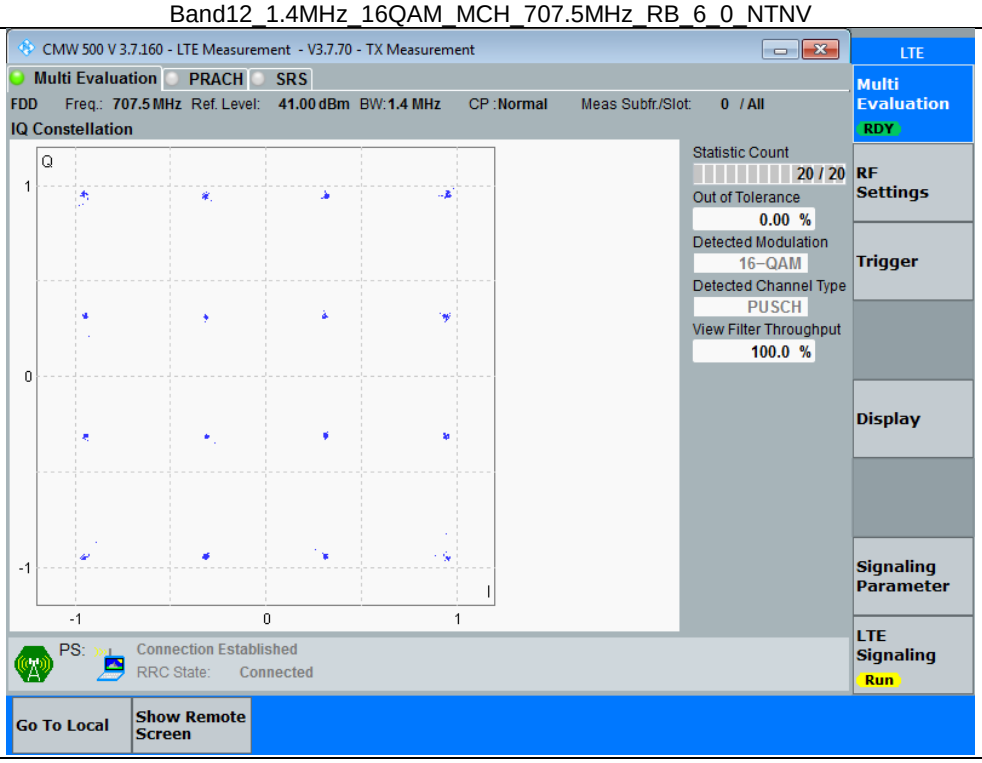
Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	6	0	Refer To Test Graph		Pass
16QAM	707.5	6	0	Refer To Test Graph		Pass

3.1.2 Test Graph

Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



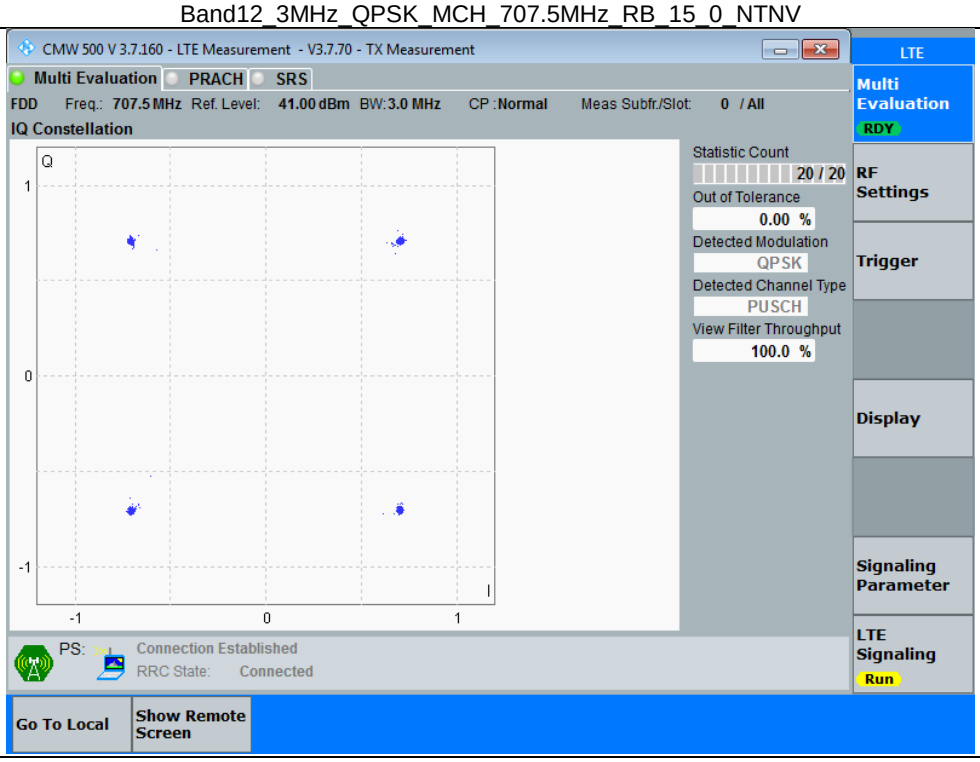
3.2 B12_3MHz

3.2.1 Test Result

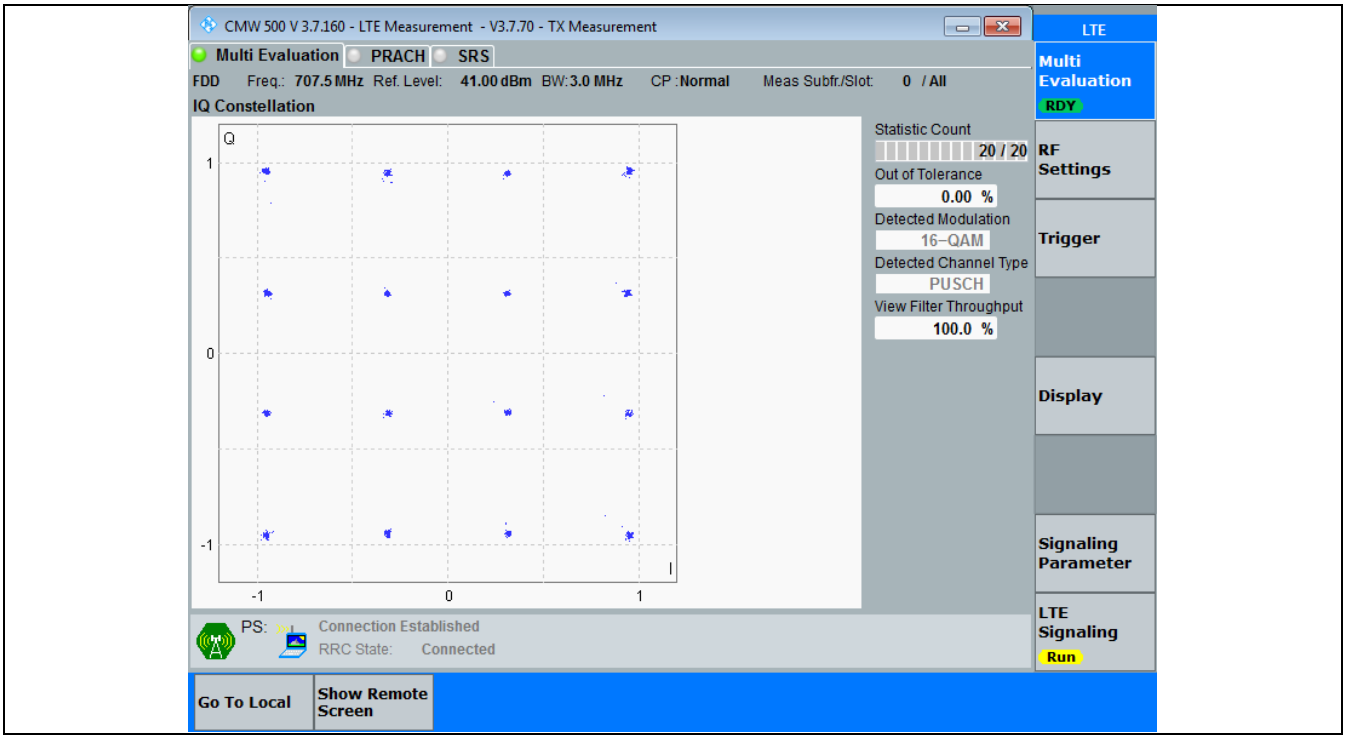
Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	15	0	Refer To Test Graph		Pass
16QAM	707.5	15	0	Refer To Test Graph		Pass

3.2.2 Test Graph

Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



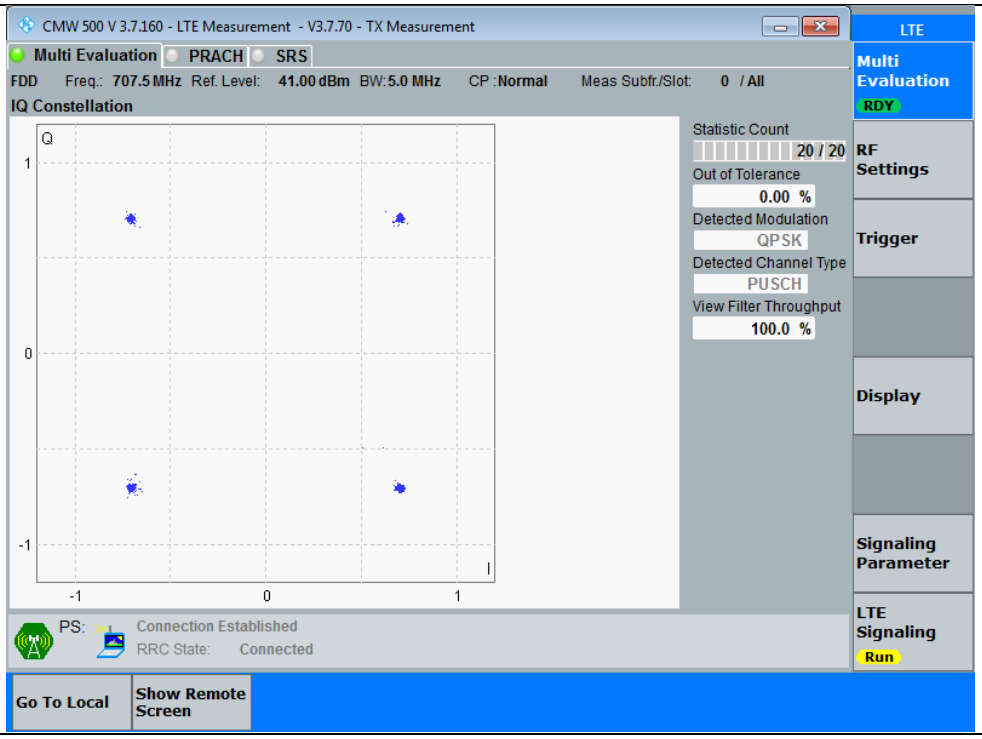
3.3 B12_5MHz

3.3.1 Test Result

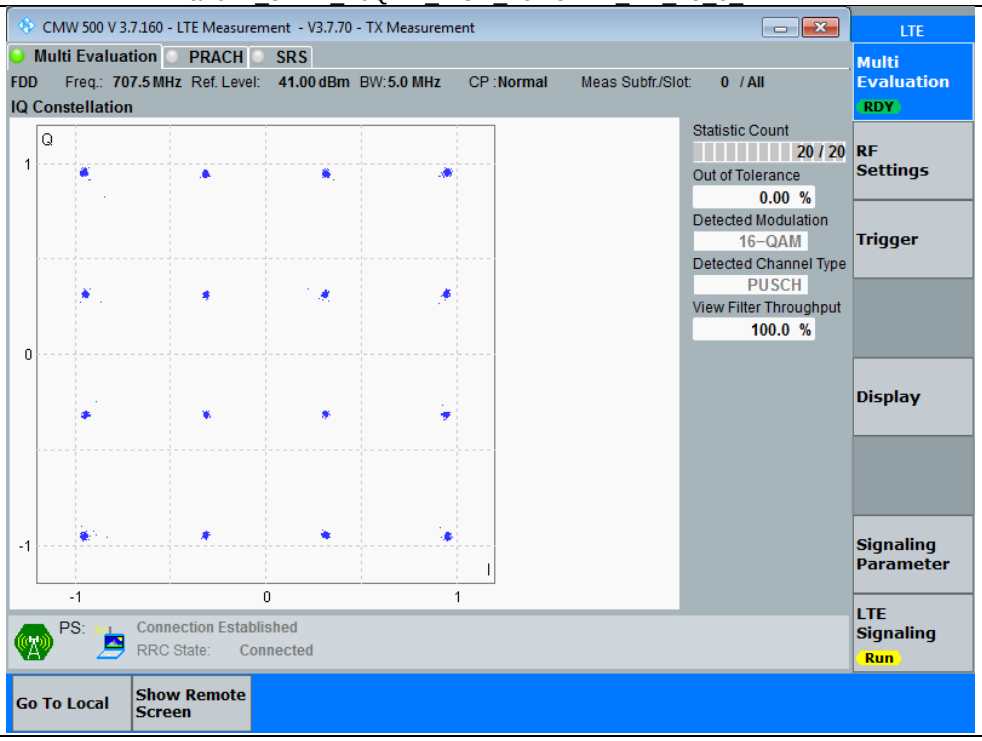
Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	25	0	Refer To Test Graph		Pass
16QAM	707.5	25	0	Refer To Test Graph		Pass

3.3.2 Test Graph

Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



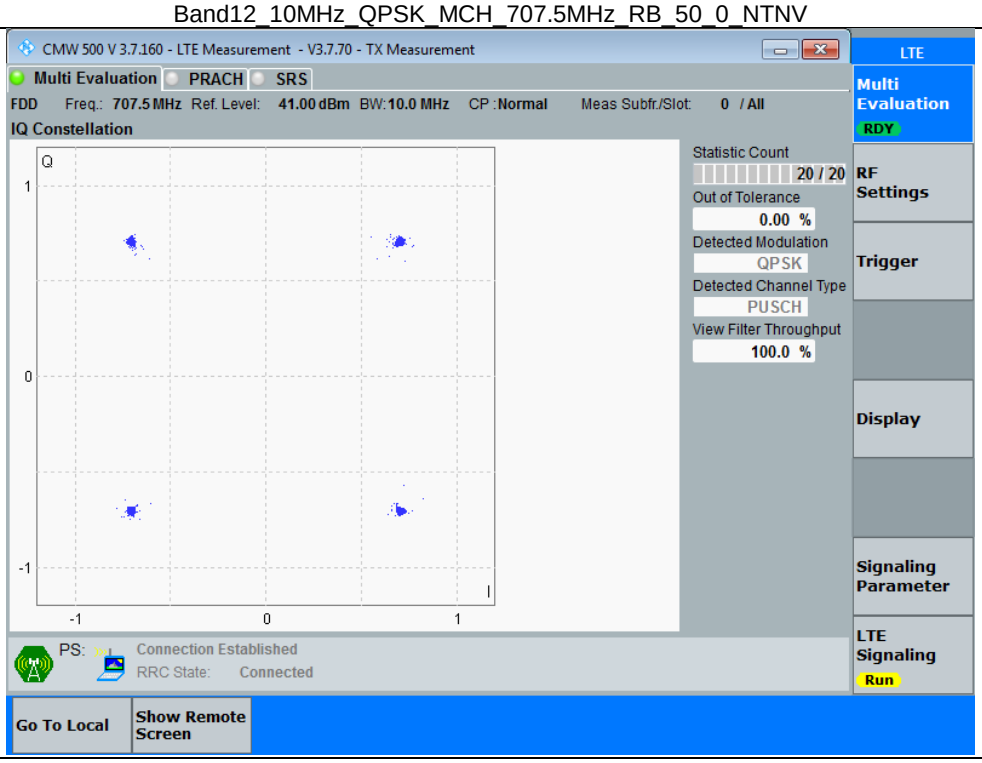
3.4 B12_10MHz

3.4.1 Test Result

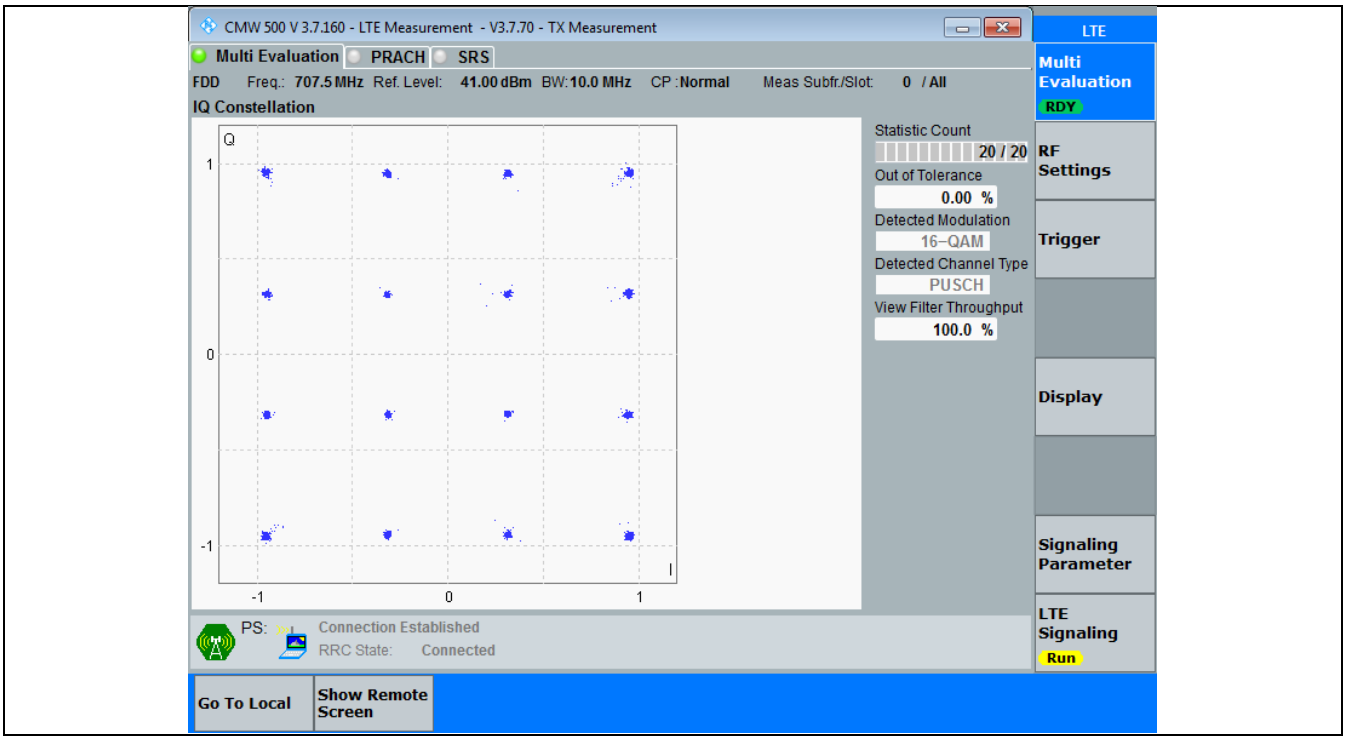
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	707.5	50	0	Refer To Test Graph		Pass
16QAM	707.5	50	0	Refer To Test Graph		Pass

3.4.2 Test Graph

Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



4. 99% & 26dB Bandwidth

4.1 Band12_OBW

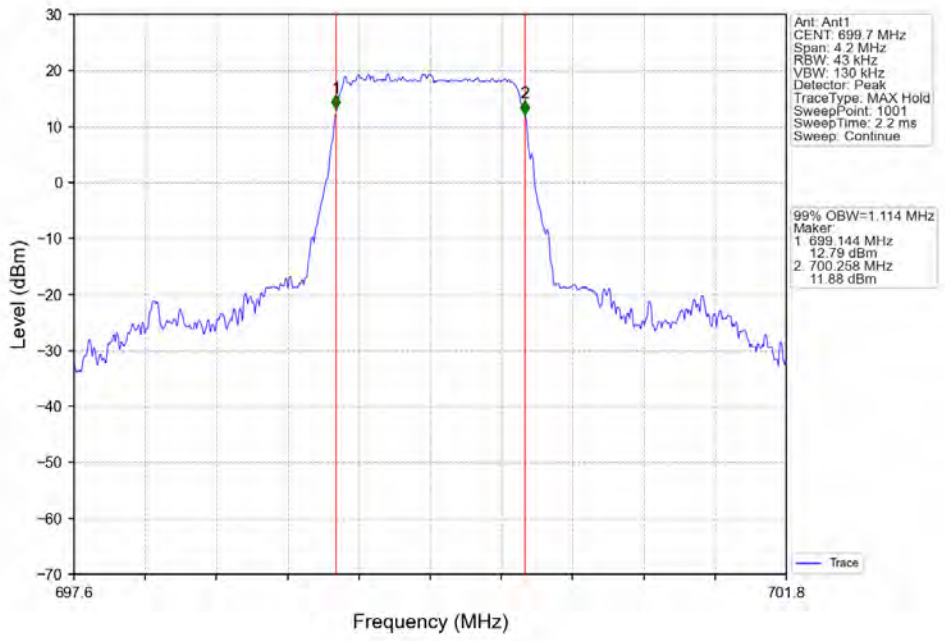
4.1.1 Test Result

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	1.114	Pass
		707.5	6	0	1.113	Pass
		715.3	6	0	1.109	Pass
	16QAM	699.7	6	0	1.109	Pass
		707.5	6	0	1.116	Pass
		715.3	6	0	1.114	Pass
3	QPSK	700.5	15	0	2.733	Pass
		707.5	15	0	2.749	Pass
		714.5	15	0	2.739	Pass
	16QAM	700.5	15	0	2.725	Pass
		707.5	15	0	2.729	Pass
		714.5	15	0	2.723	Pass
5	QPSK	701.5	25	0	4.550	Pass
		707.5	25	0	4.543	Pass

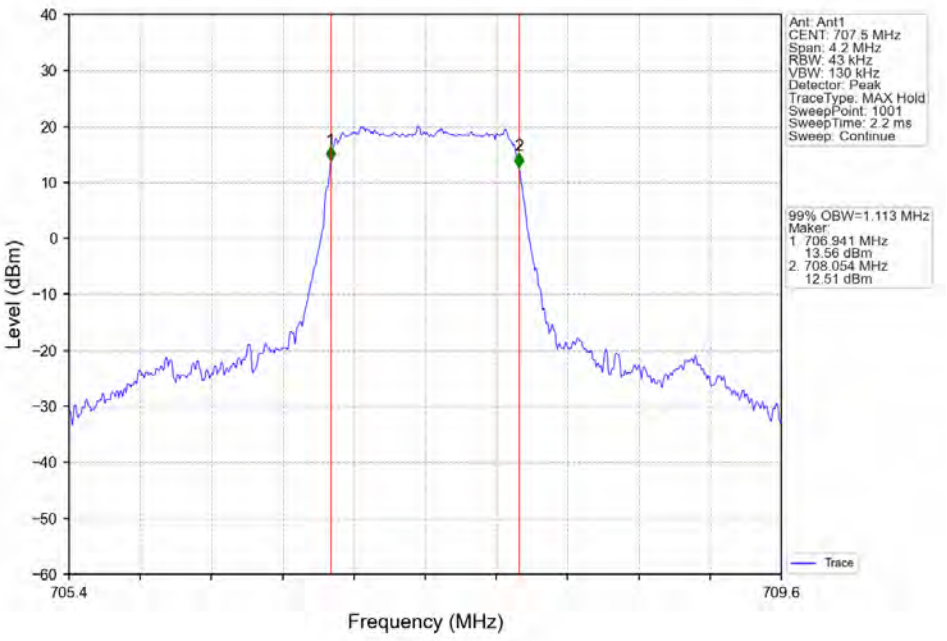
		713.5	25	0	4.527	Pass
	16QAM	701.5	25	0	4.525	Pass
		707.5	25	0	4.568	Pass
		713.5	25	0	4.545	Pass
10	QPSK	704	50	0	9.077	Pass
		707.5	50	0	9.041	Pass
		711	50	0	9.052	Pass
	16QAM	704	50	0	9.083	Pass
		707.5	50	0	9.072	Pass
		711	50	0	9.035	Pass

4.1.2 Test Graph

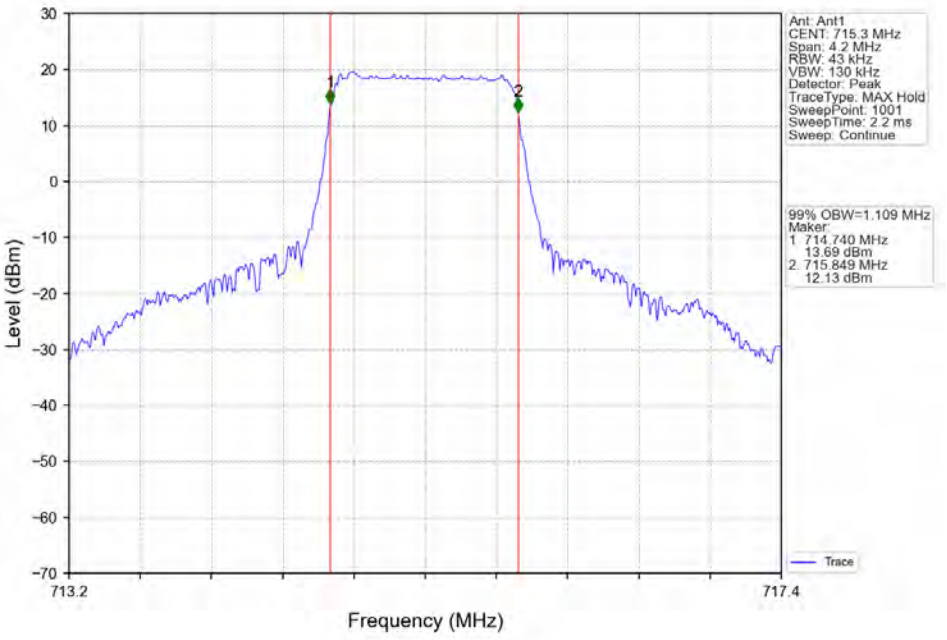
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



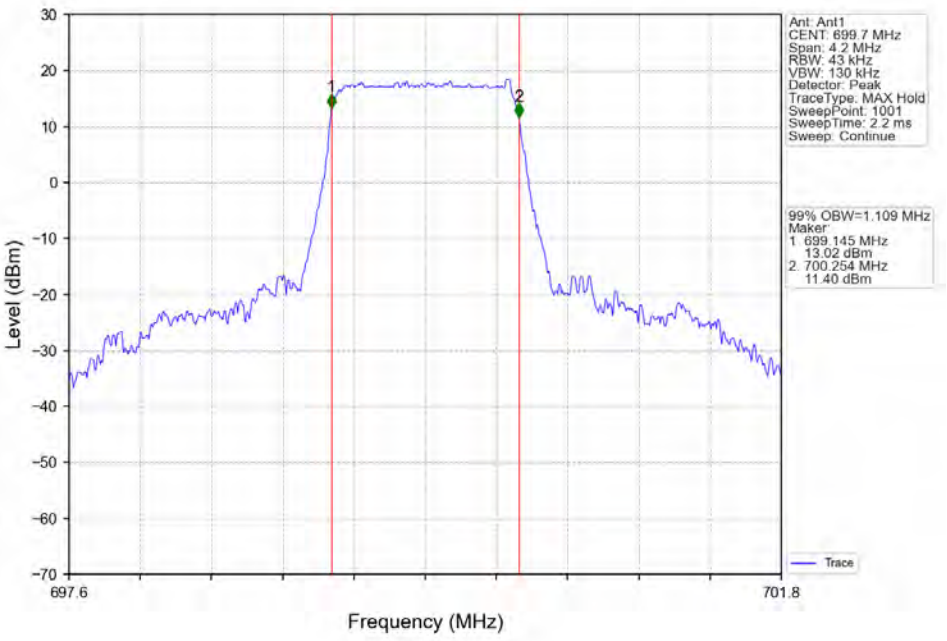
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



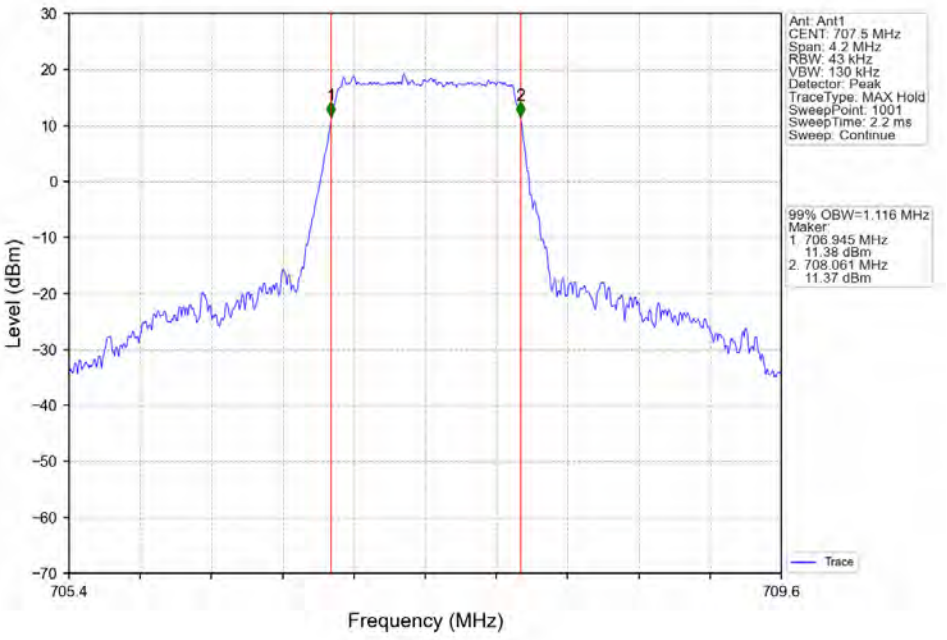
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



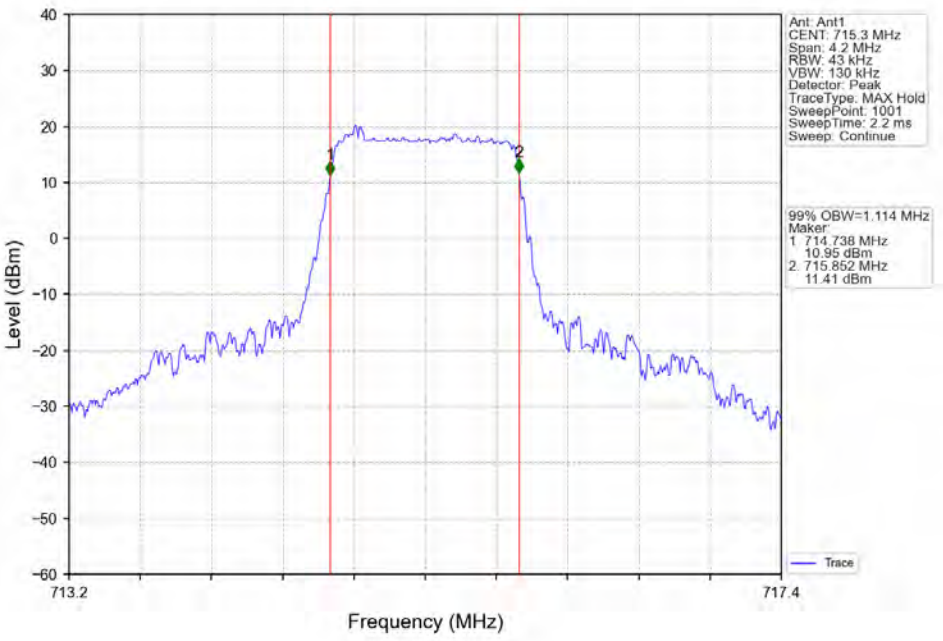
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



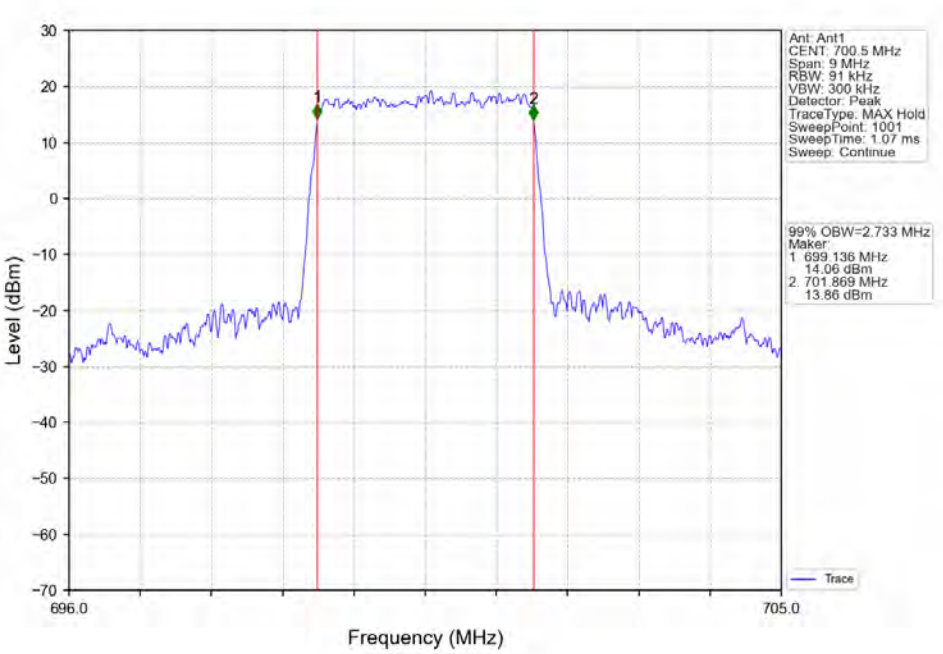
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



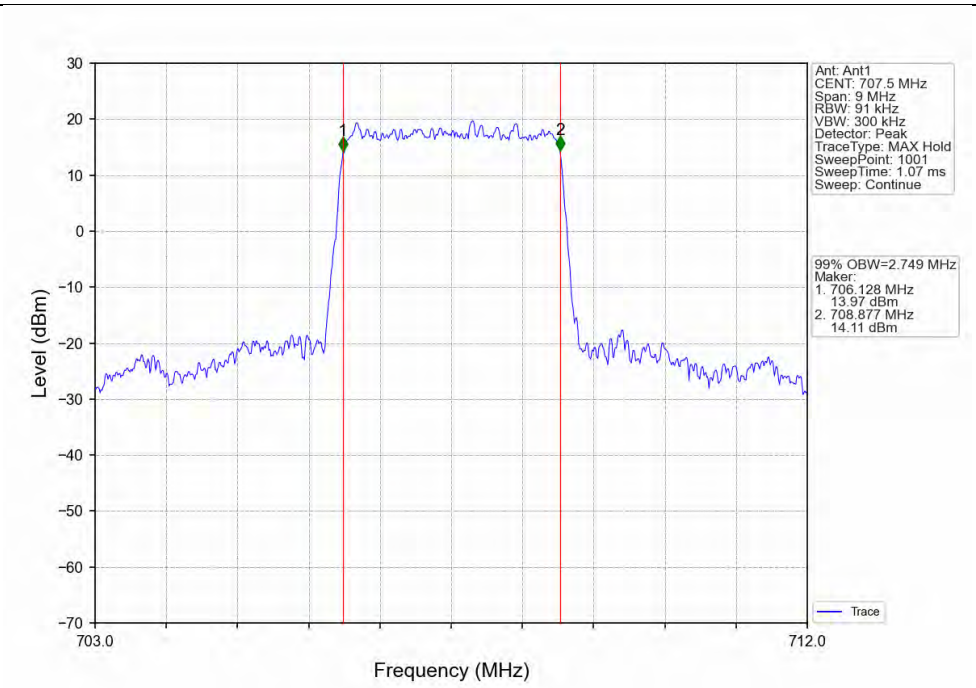
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



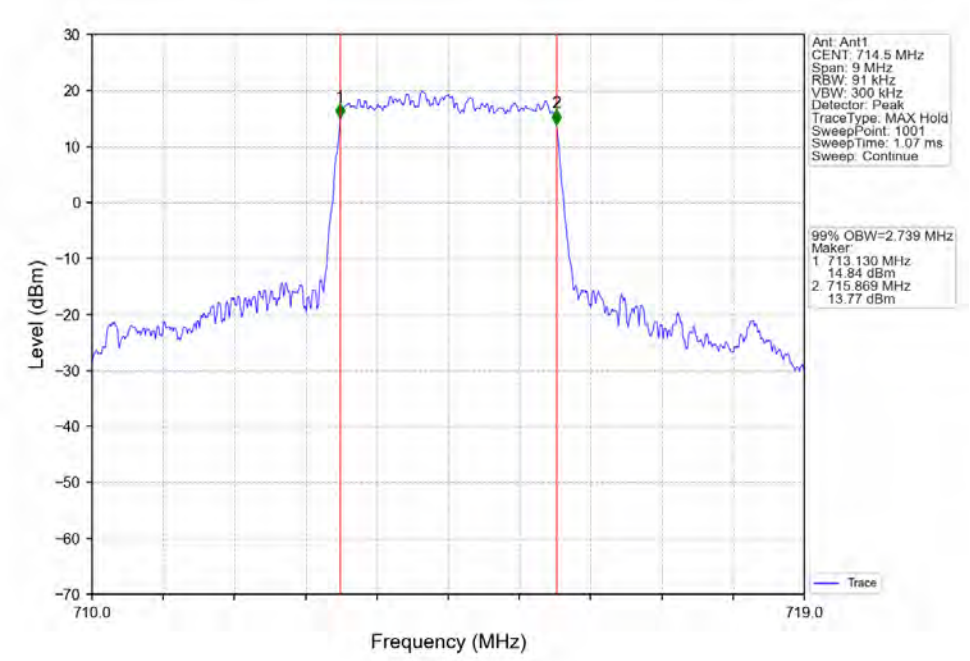
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



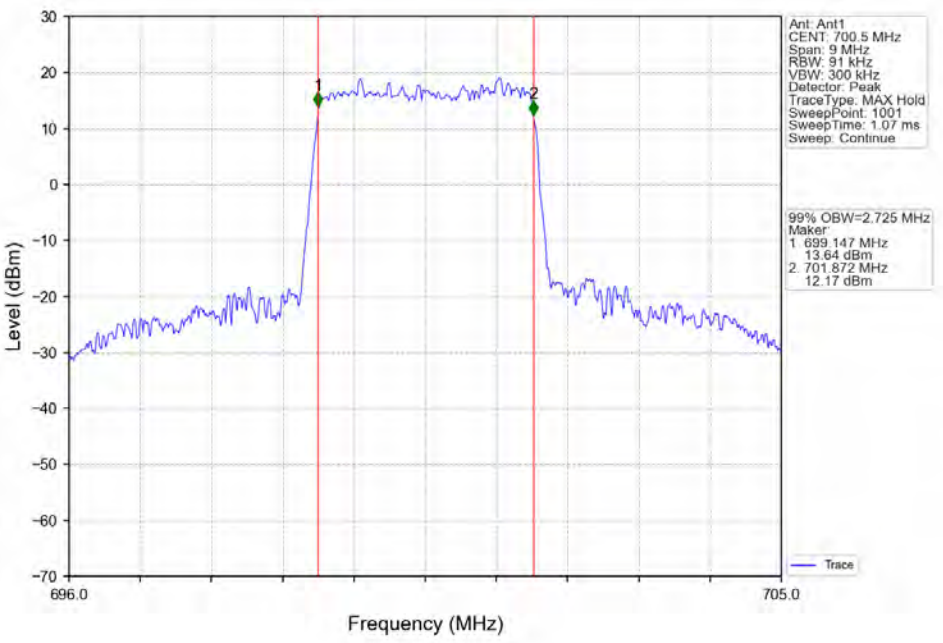
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



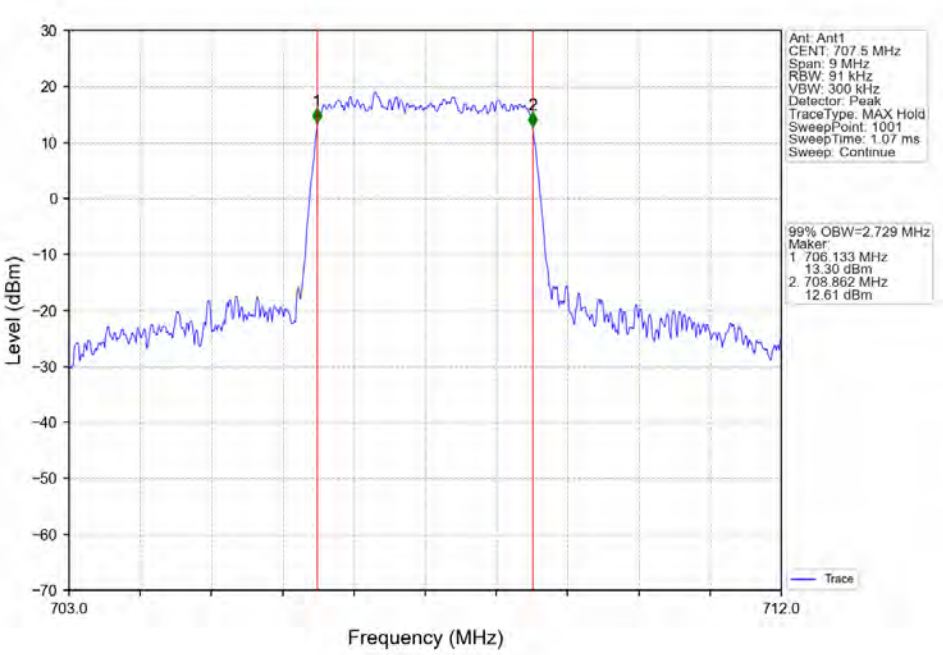
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



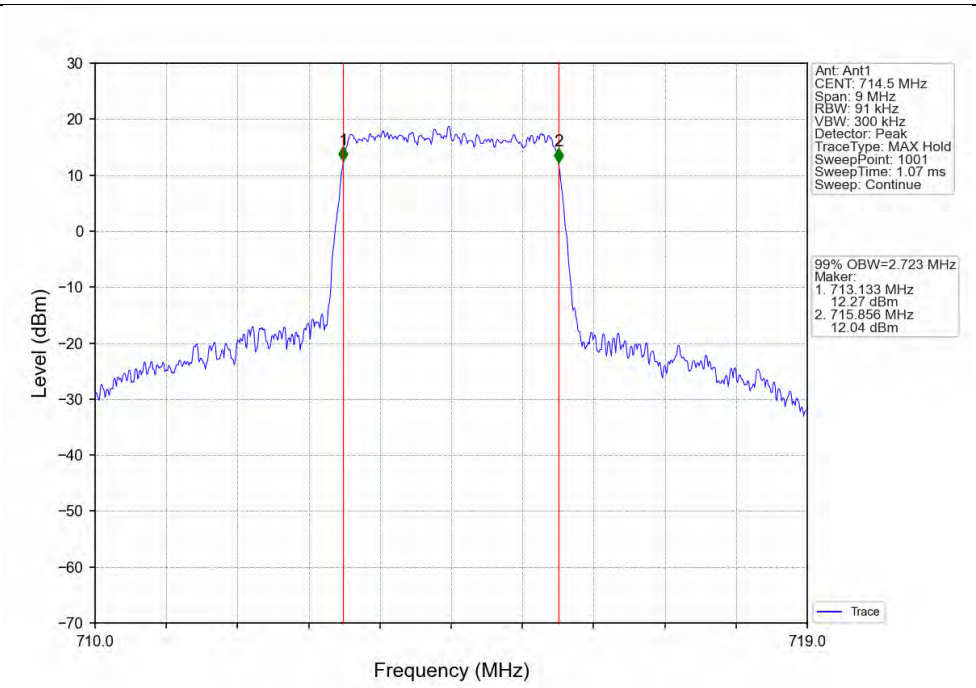
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



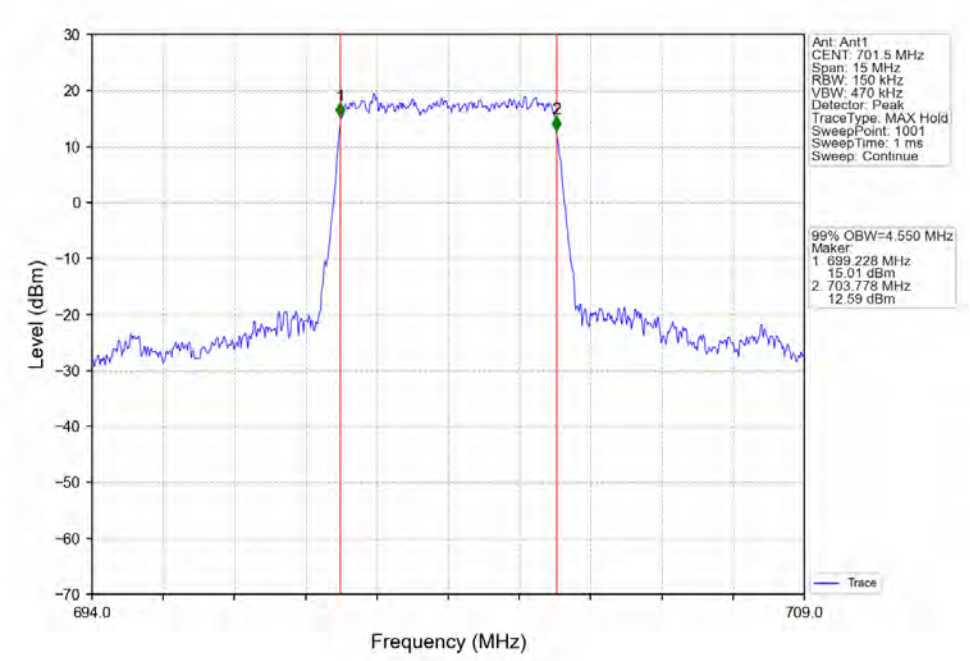
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



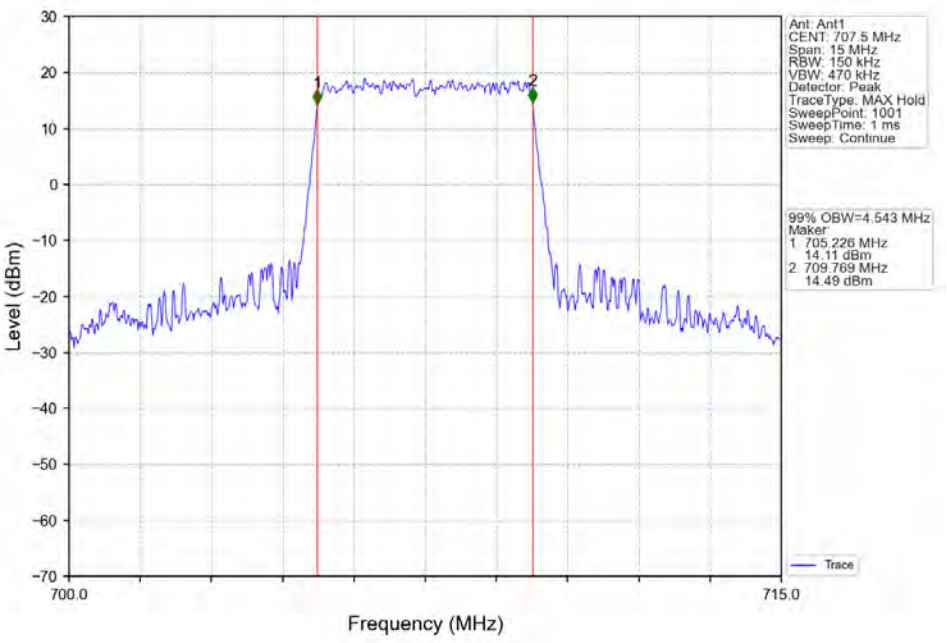
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



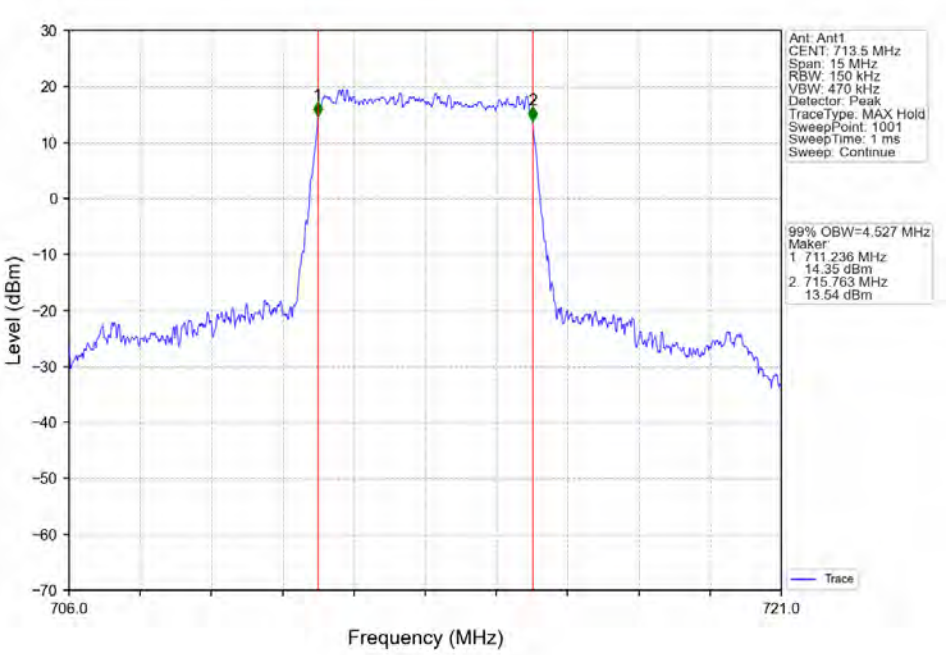
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



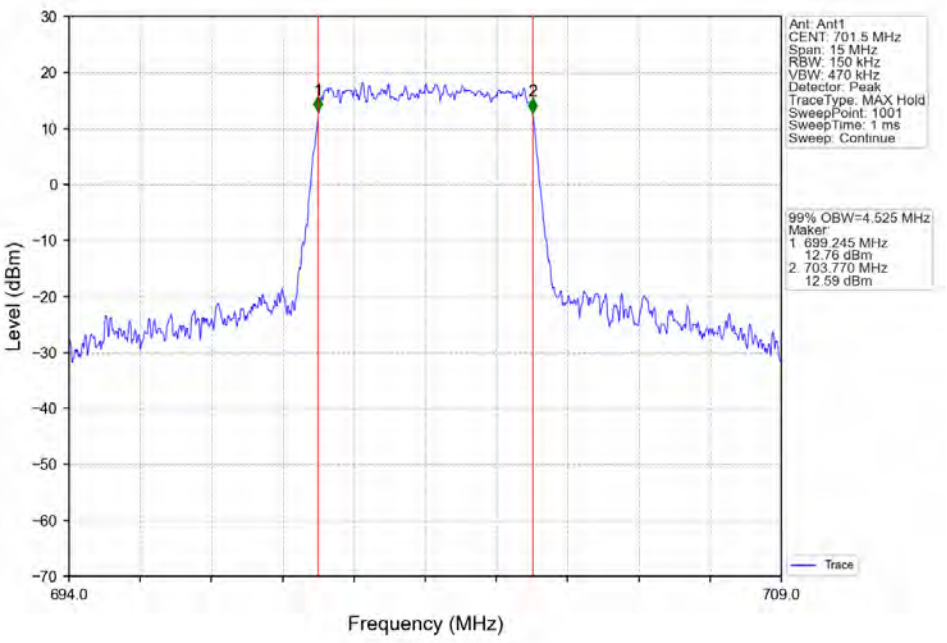
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



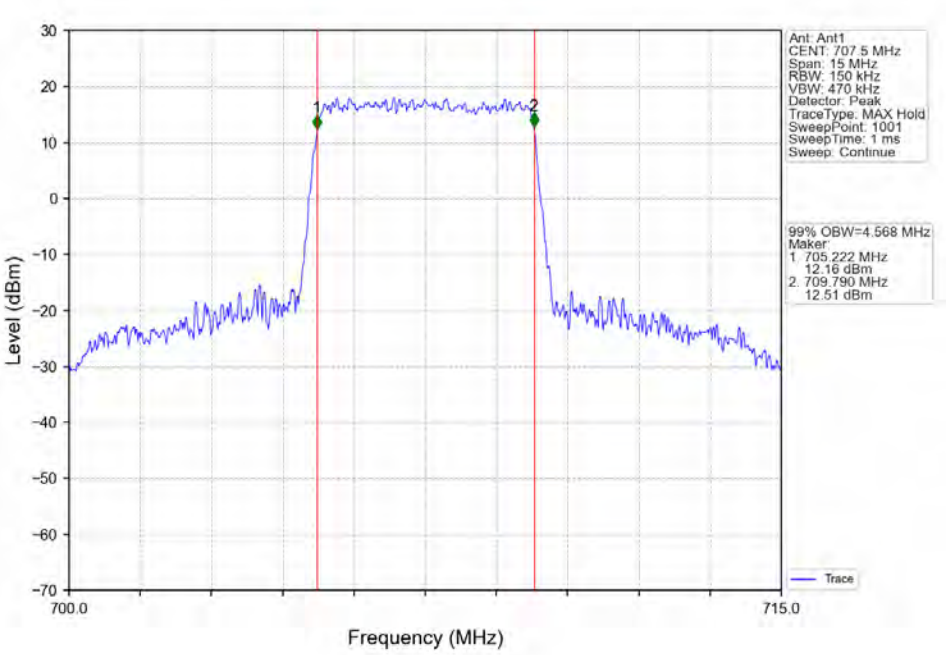
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



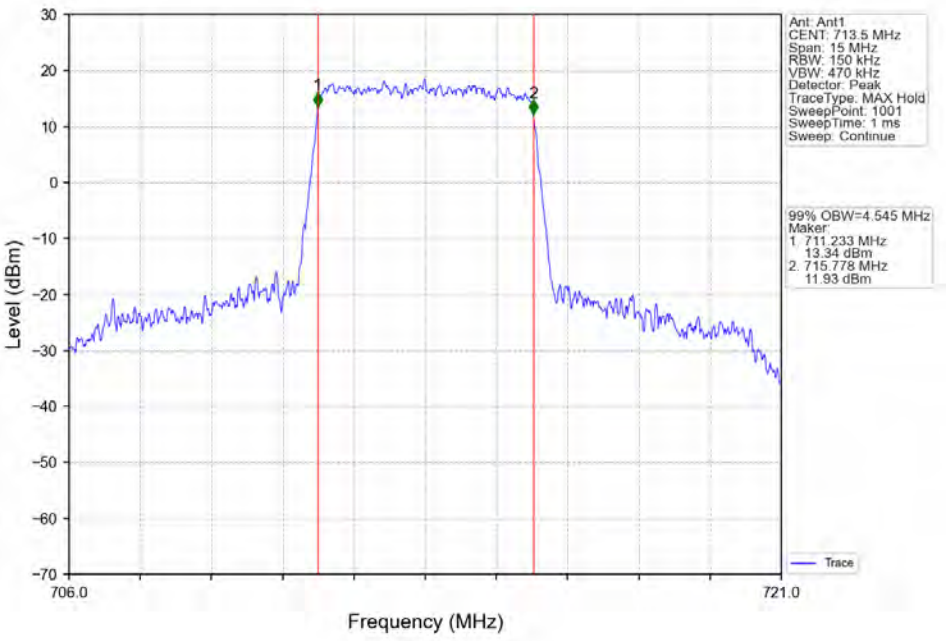
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



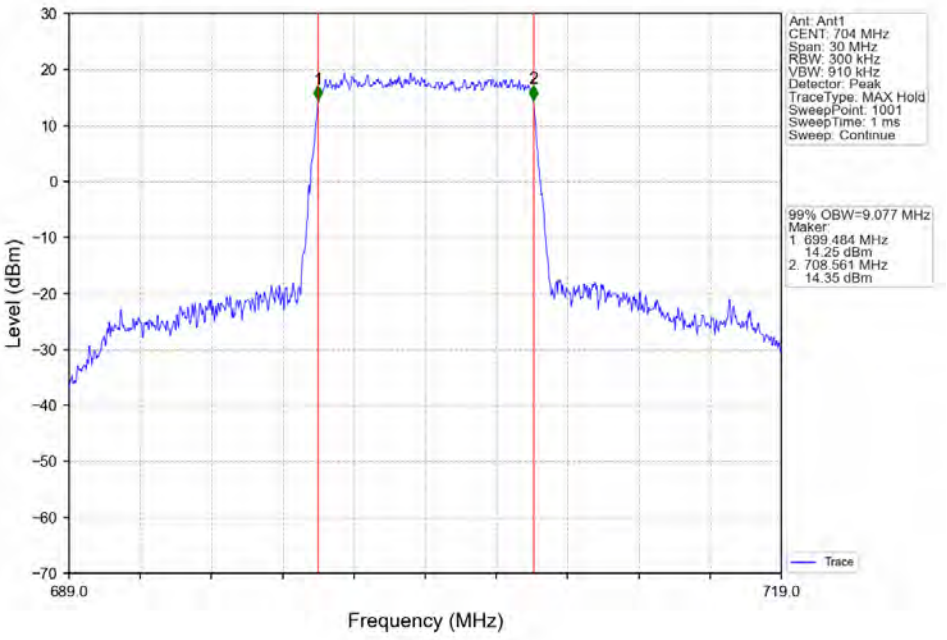
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



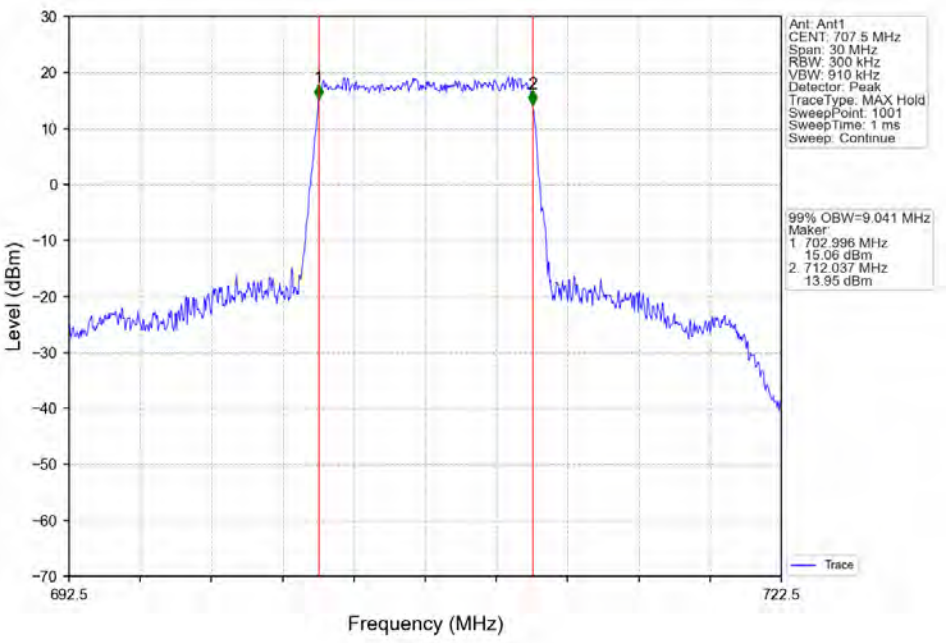
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



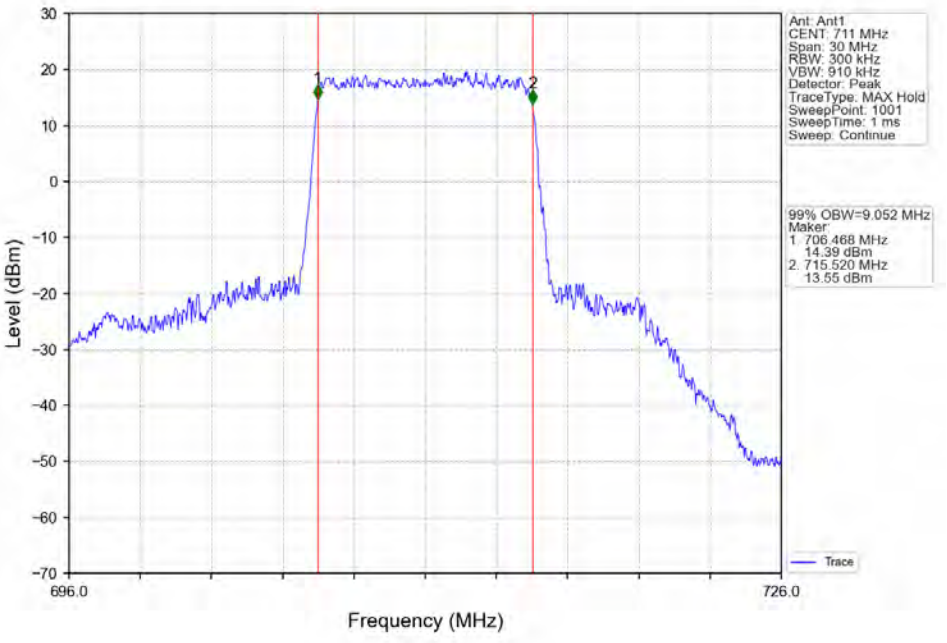
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



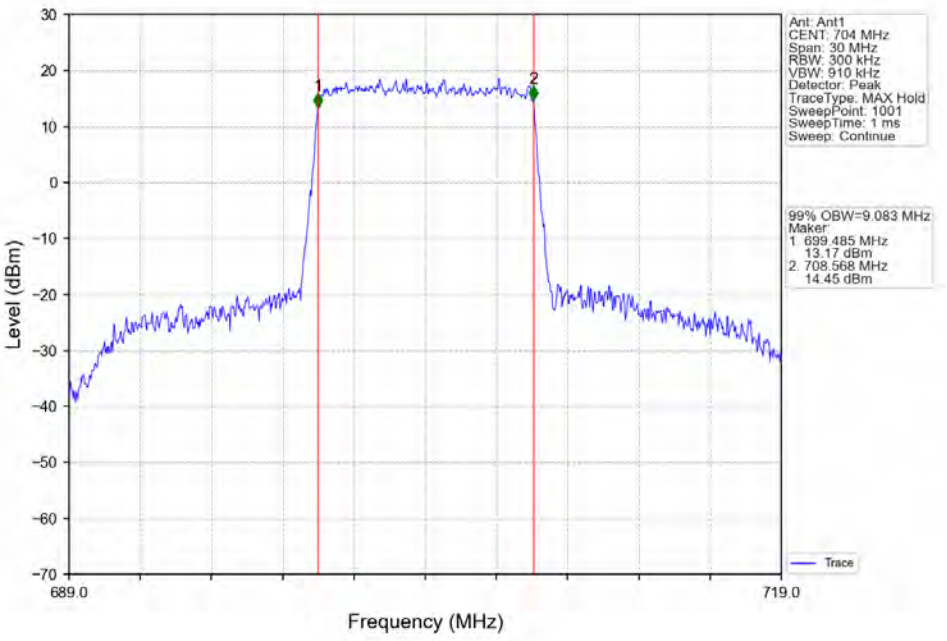
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



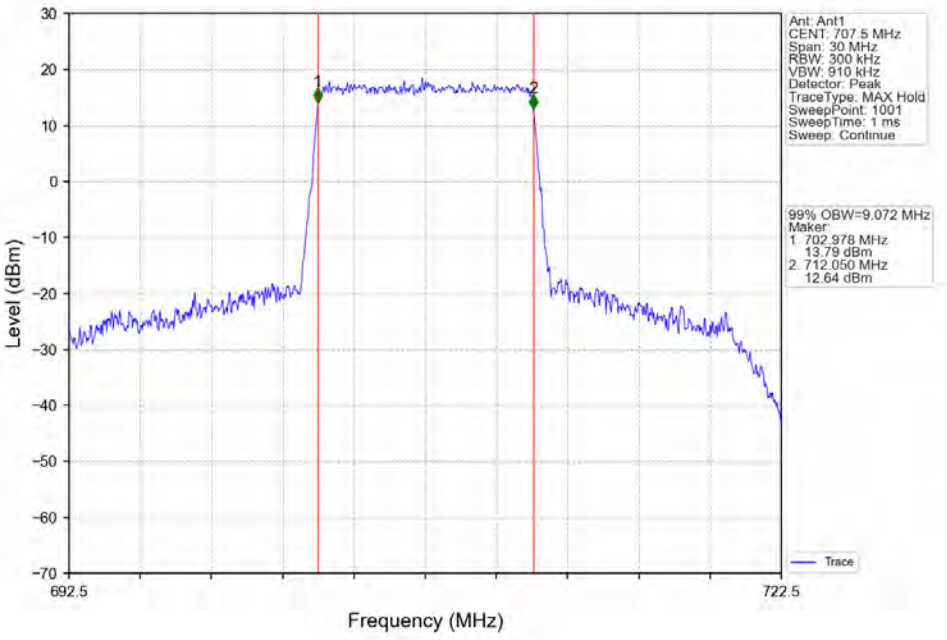
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



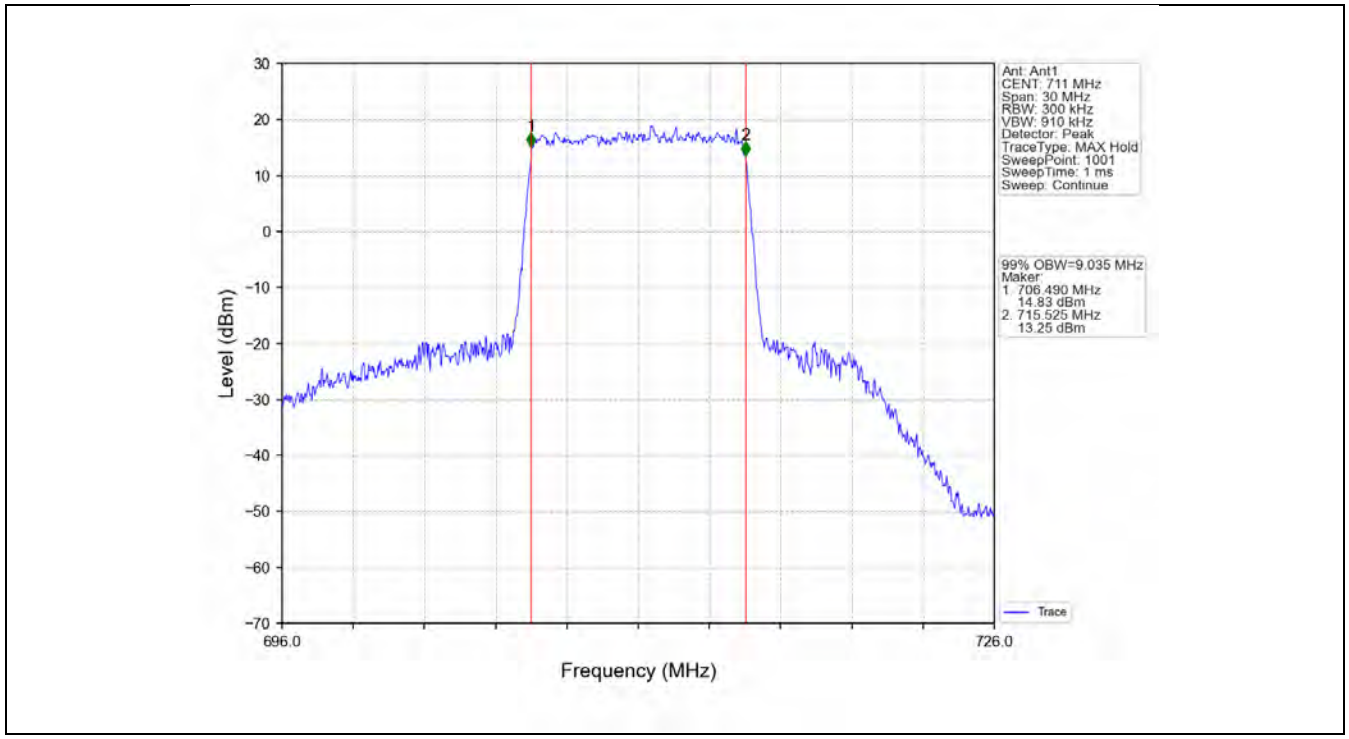
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



4.2 Band12_XDB

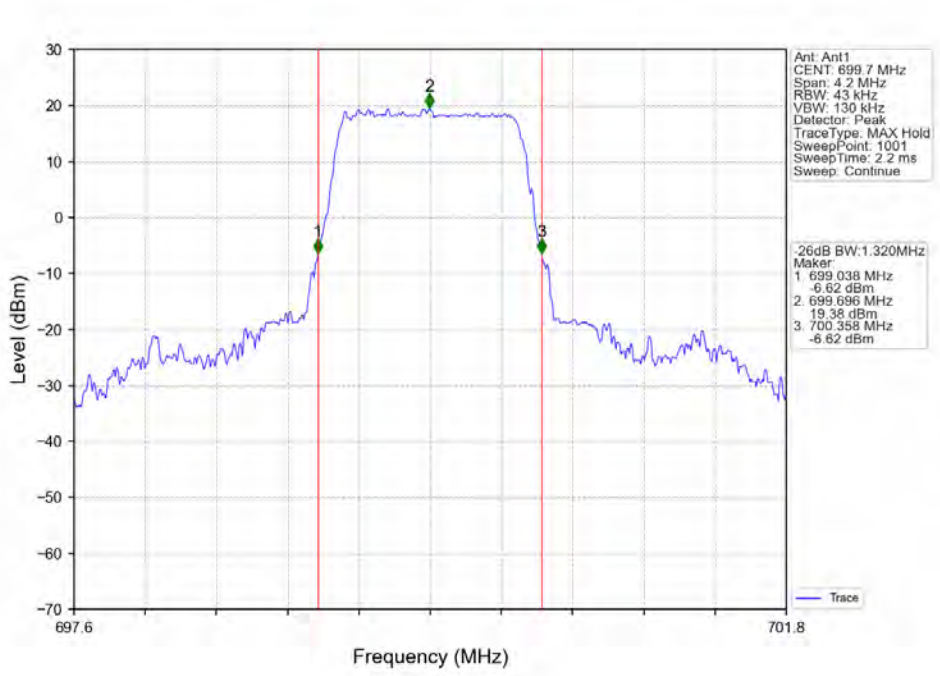
4.2.1 Test Result

Band: 12 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	699.7	6	0	1.320	Pass
		707.5	6	0	1.320	Pass
		715.3	6	0	1.323	Pass
	16QAM	699.7	6	0	1.303	Pass
		707.5	6	0	1.341	Pass
		715.3	6	0	1.313	Pass
3	QPSK	700.5	15	0	2.993	Pass
		707.5	15	0	3.005	Pass
		714.5	15	0	3.014	Pass
	16QAM	700.5	15	0	2.981	Pass
		707.5	15	0	3.006	Pass
		714.5	15	0	3.009	Pass
5	QPSK	701.5	25	0	5.020	Pass
		707.5	25	0	5.053	Pass
		713.5	25	0	5.030	Pass
	16QAM	701.5	25	0	5.033	Pass
		707.5	25	0	5.075	Pass

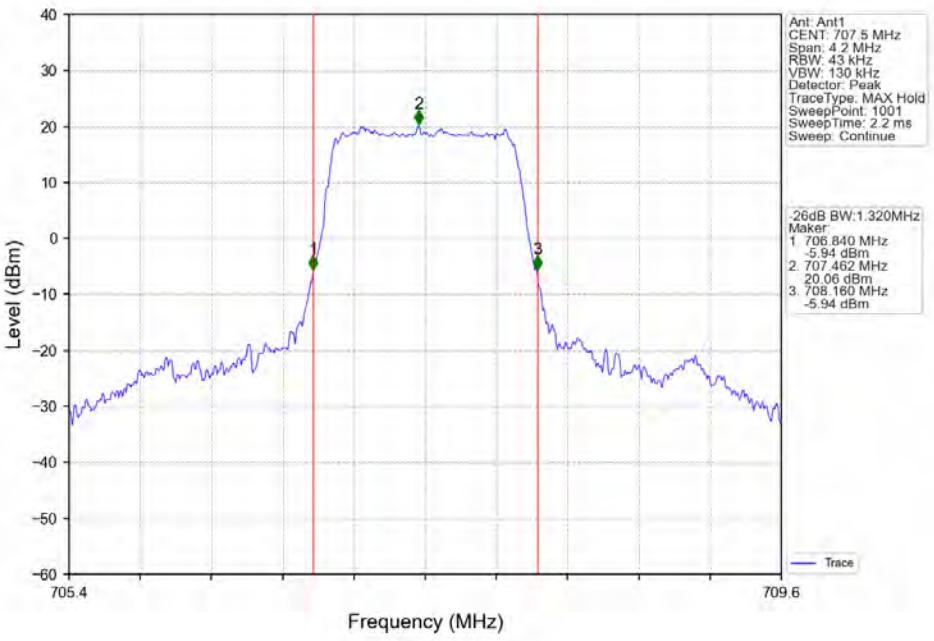
		713.5	25	0	5.089	Pass
10	QPSK	704	50	0	9.974	Pass
		707.5	50	0	10.009	Pass
		711	50	0	9.958	Pass
	16QAM	704	50	0	9.957	Pass
		707.5	50	0	9.935	Pass
		711	50	0	9.890	Pass

4.2.2 Test Graph

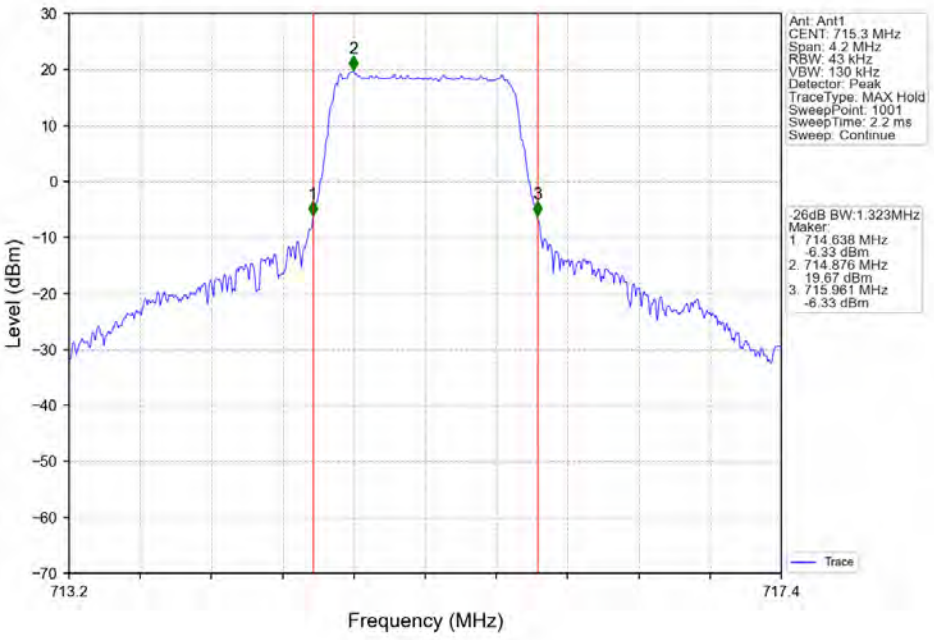
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



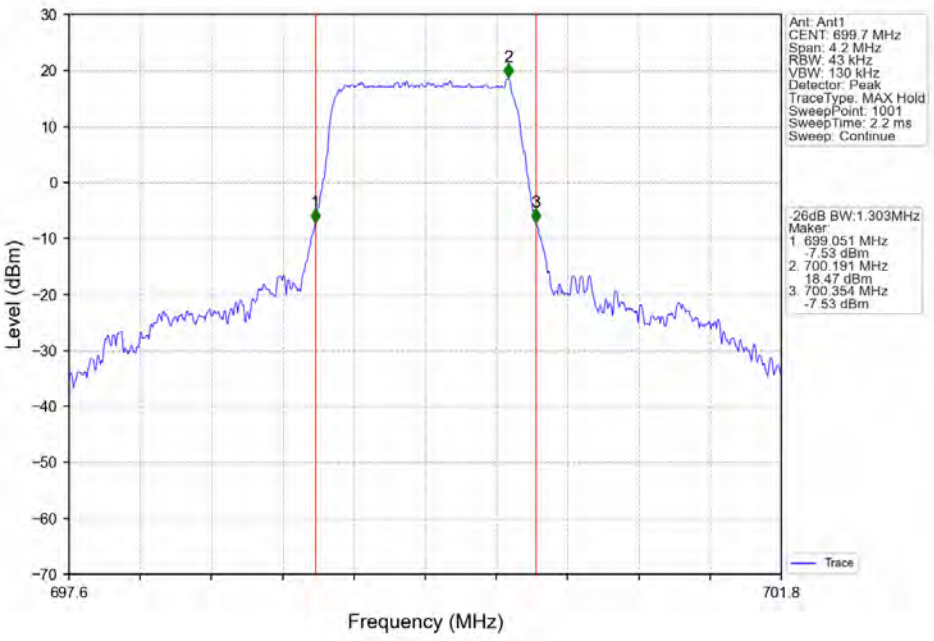
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



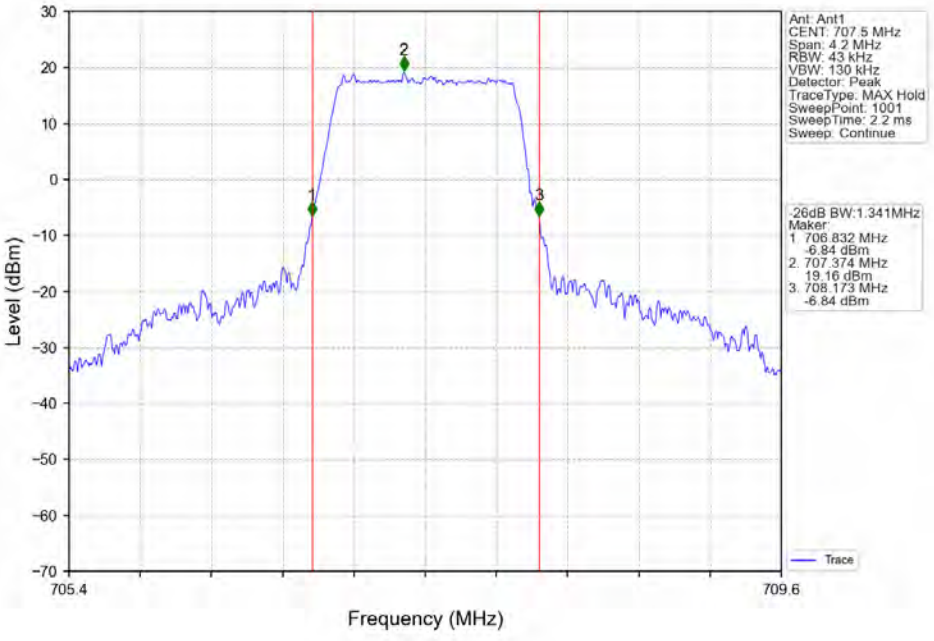
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



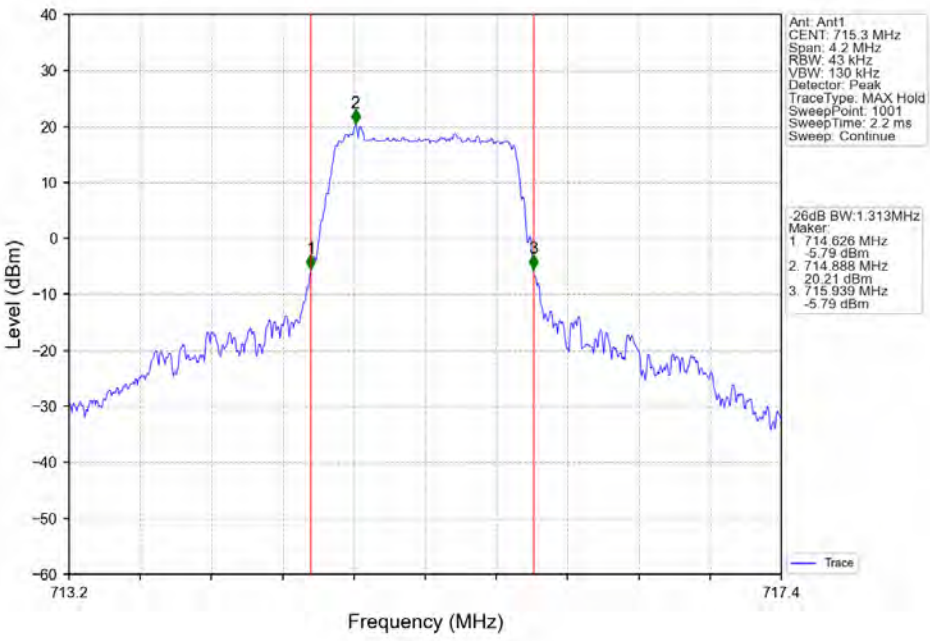
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



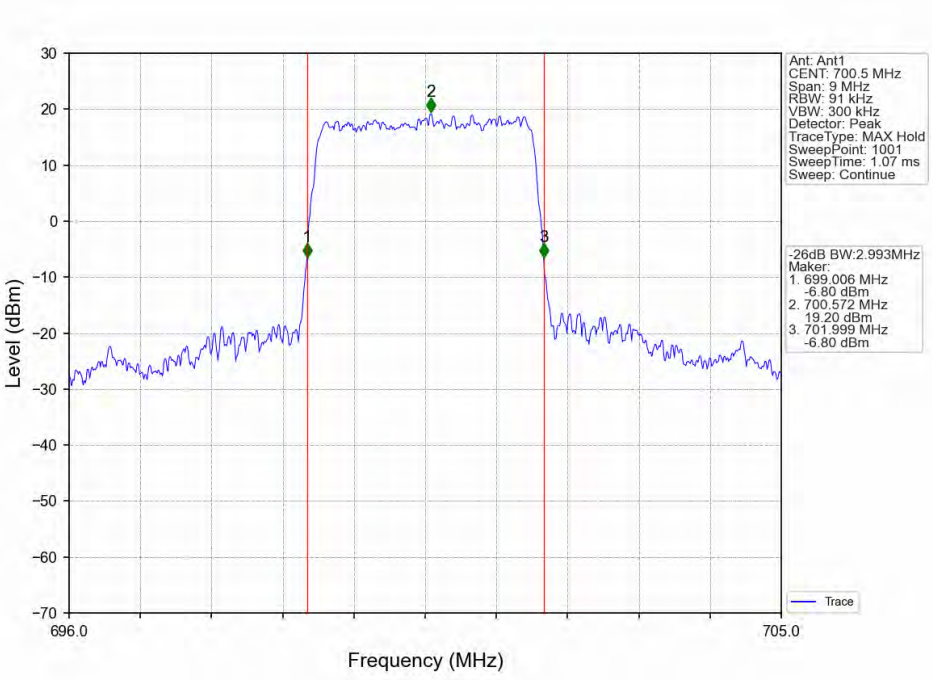
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



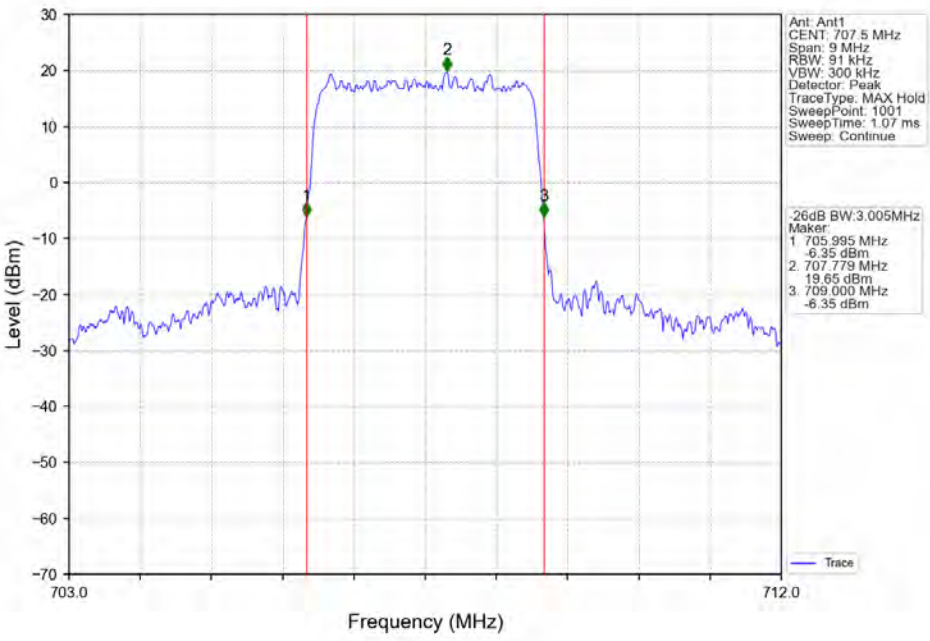
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



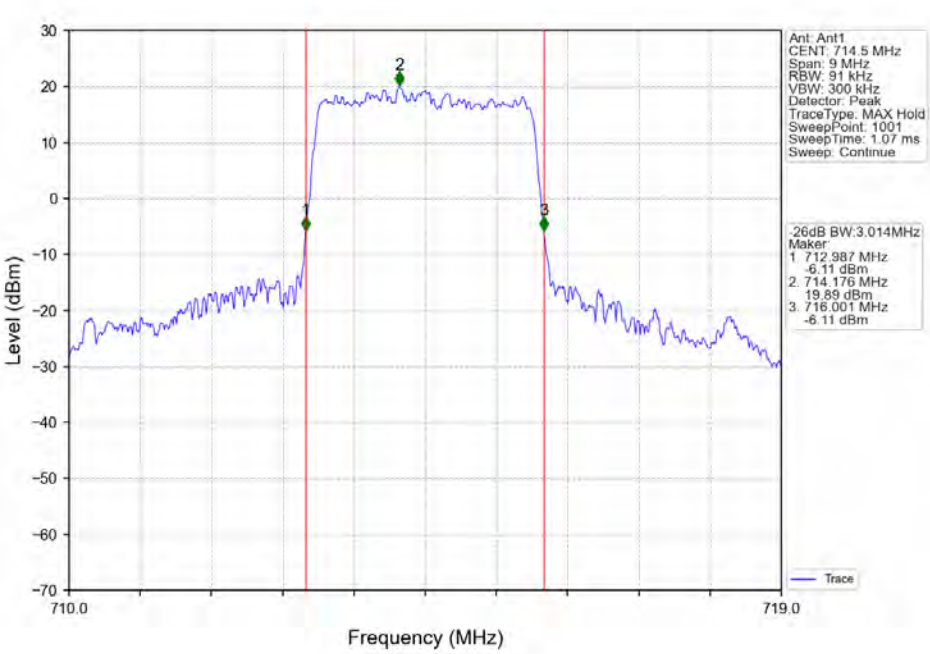
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



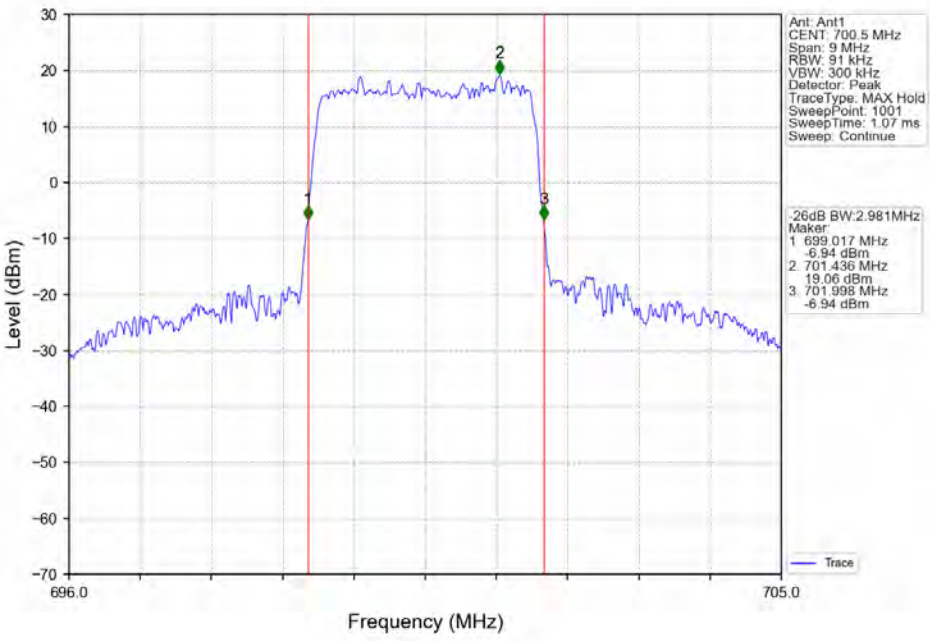
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



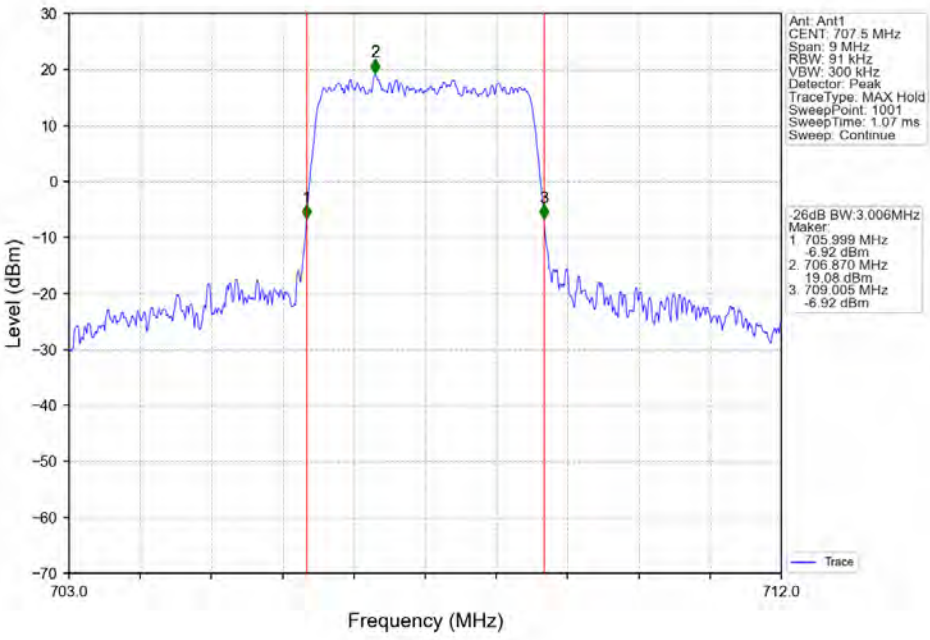
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



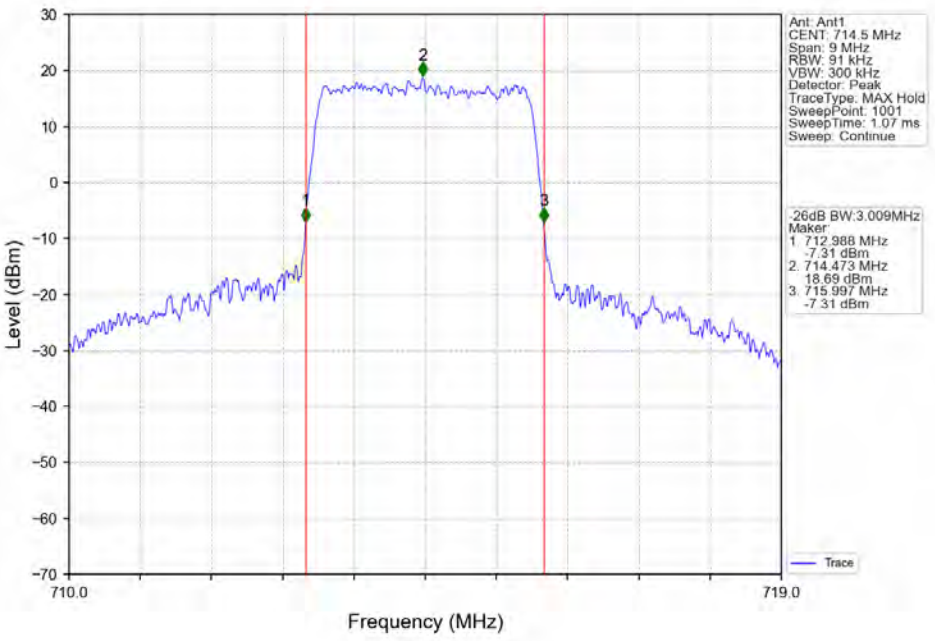
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



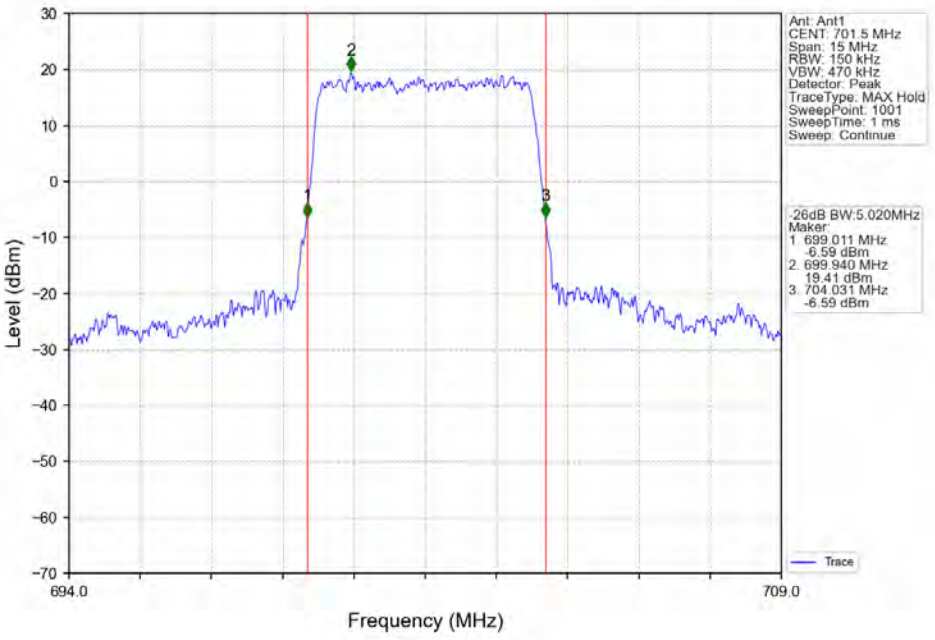
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



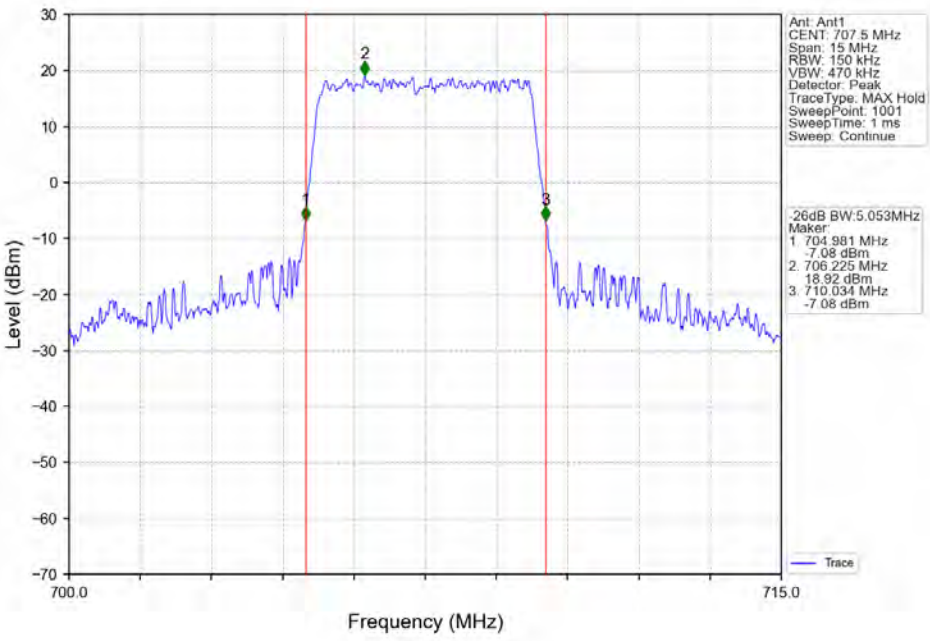
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



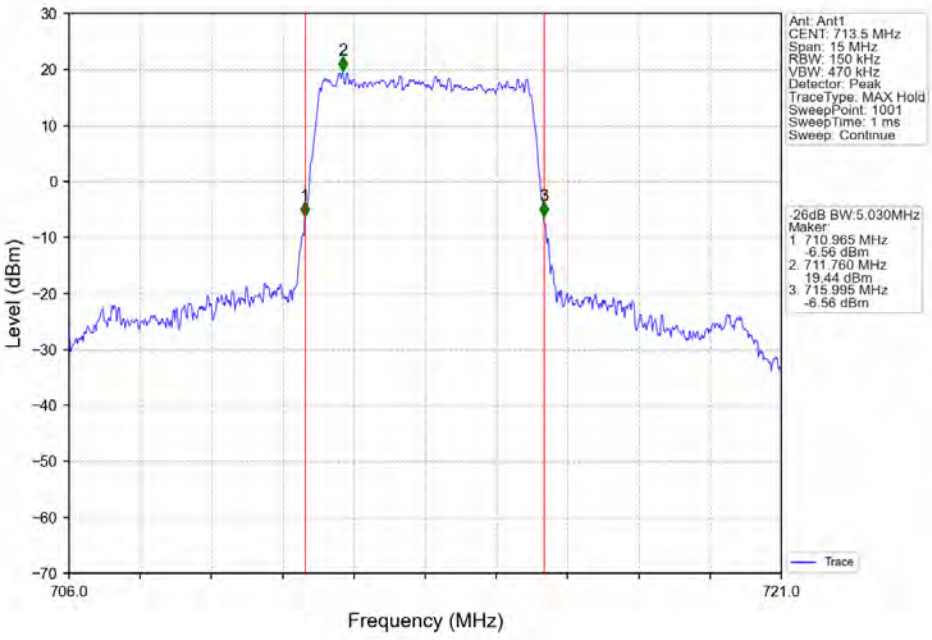
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



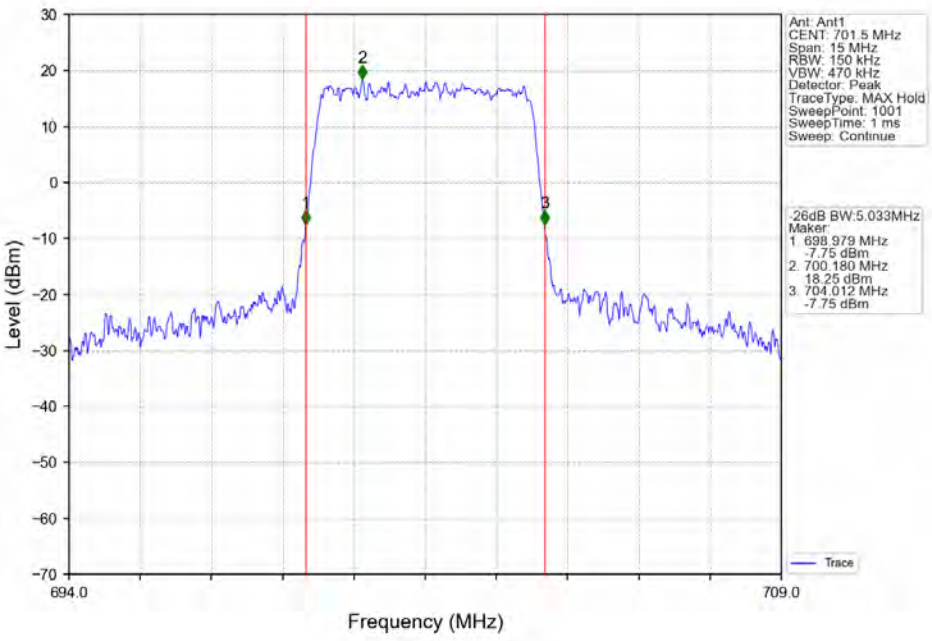
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



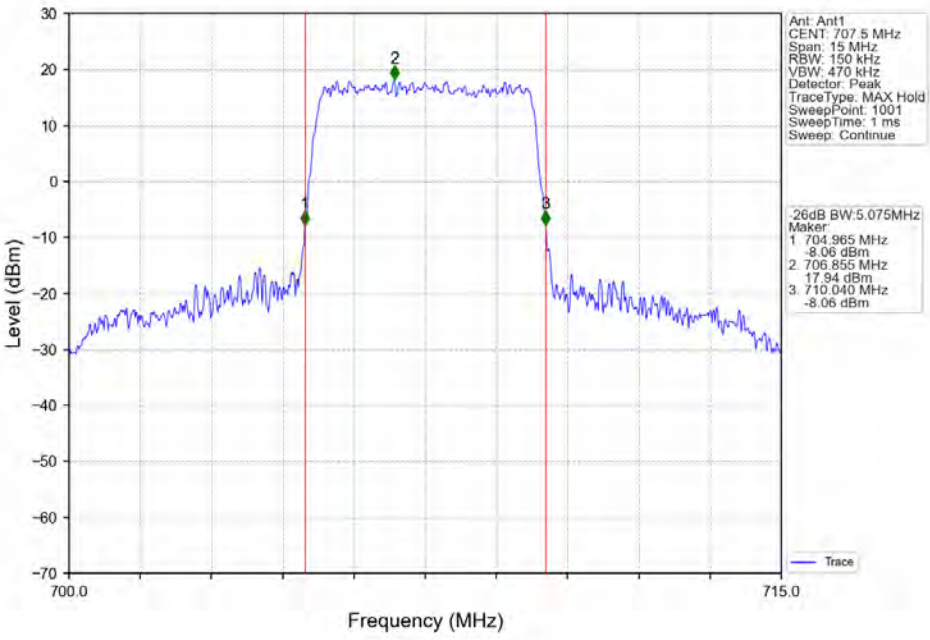
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



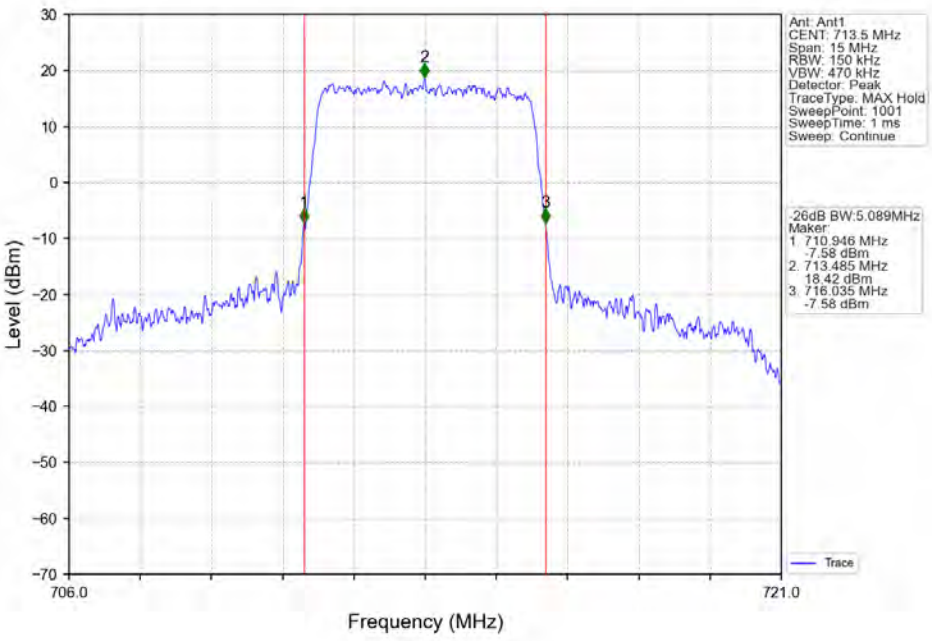
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



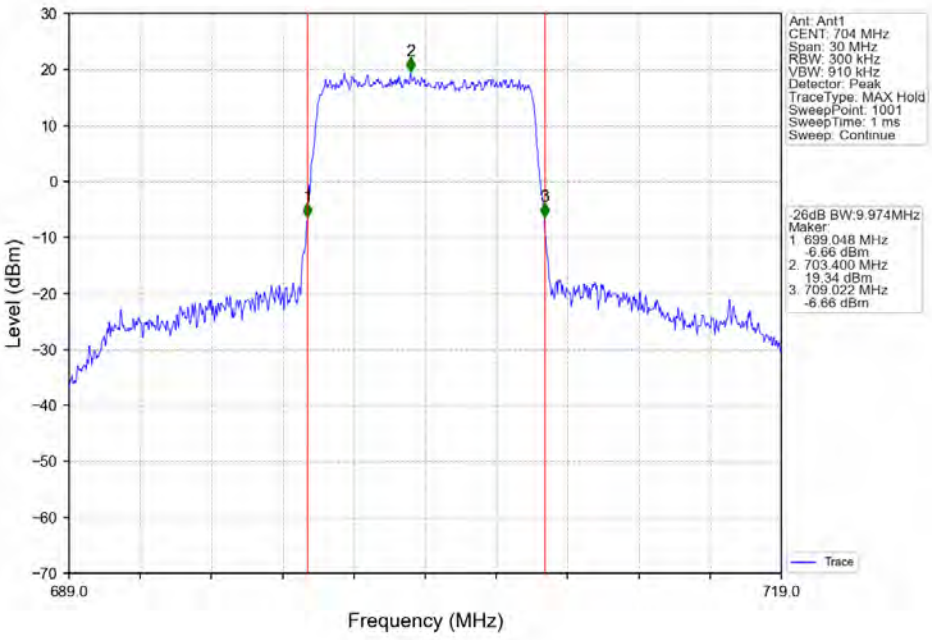
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



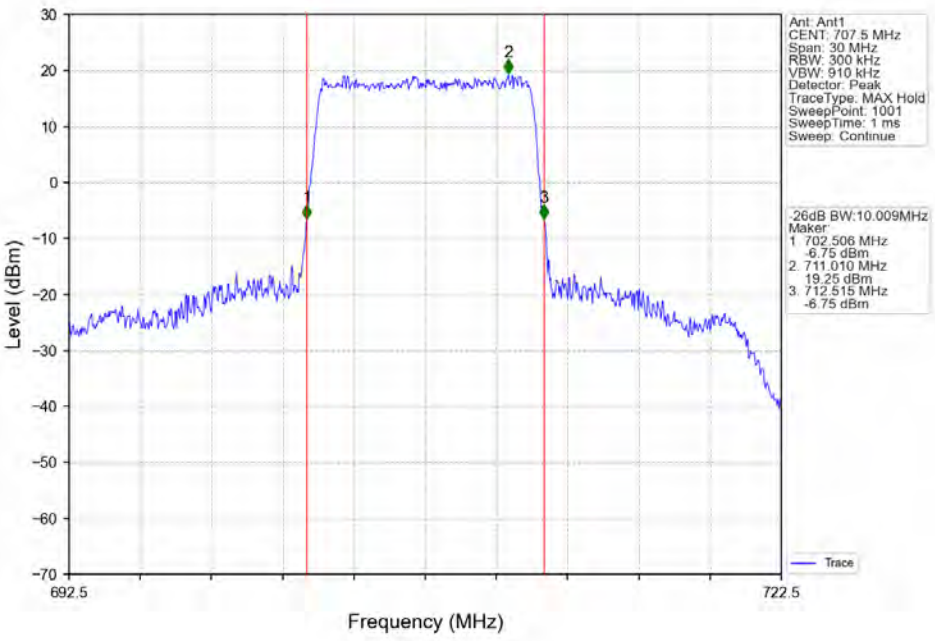
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



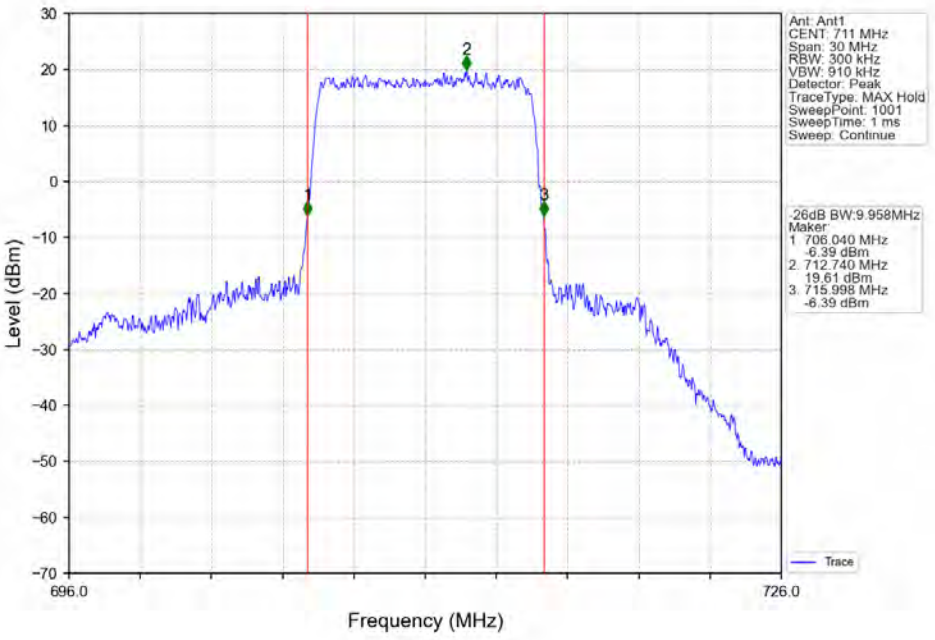
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



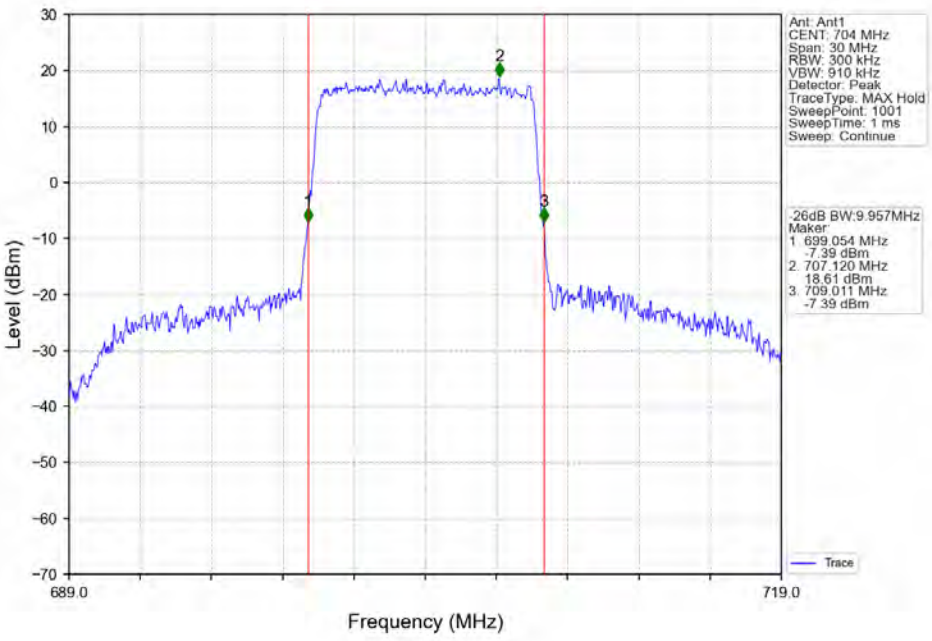
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



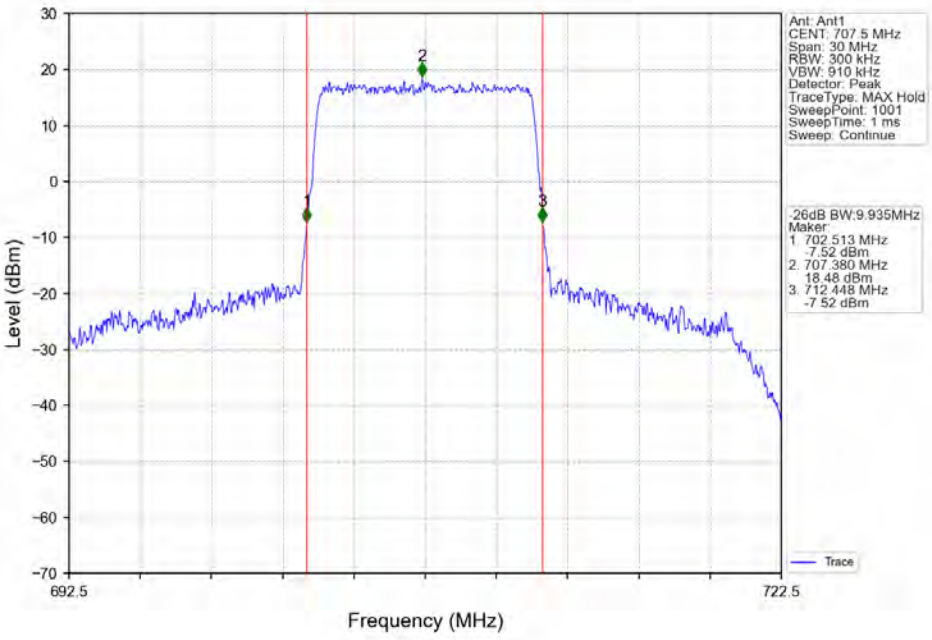
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



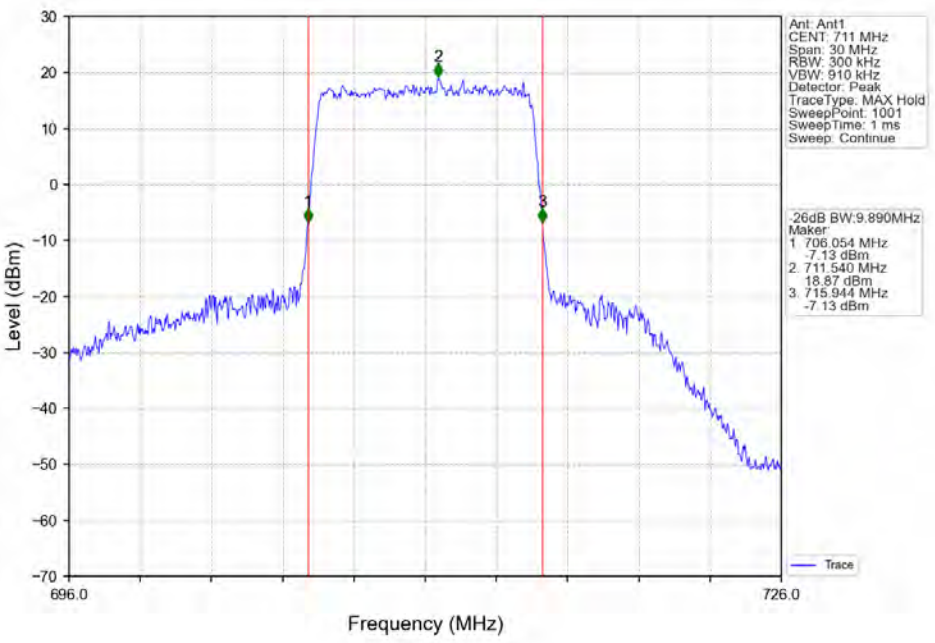
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



5. Peak-Average Ratio

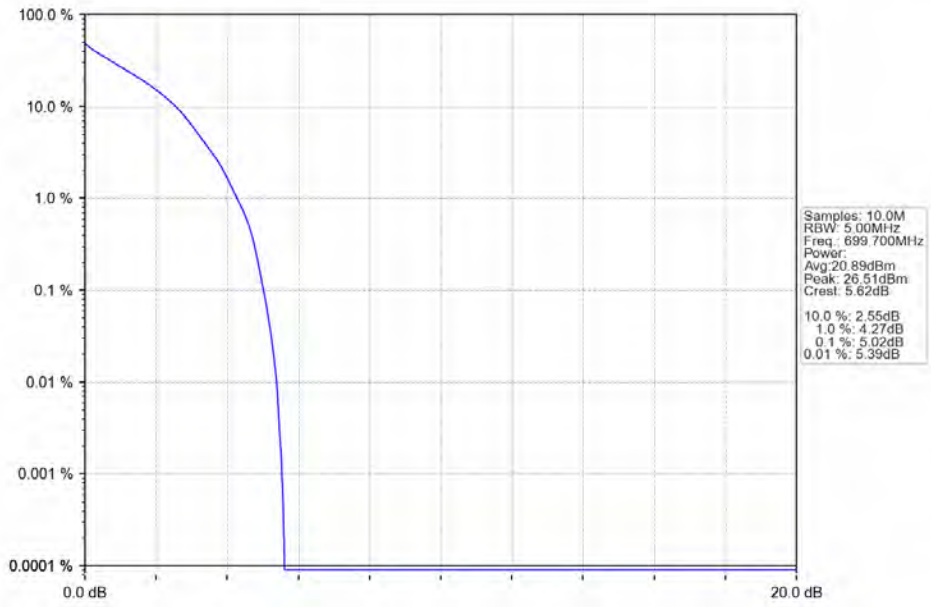
5.1 B12_1.4MHz

5.1.1 Test Result

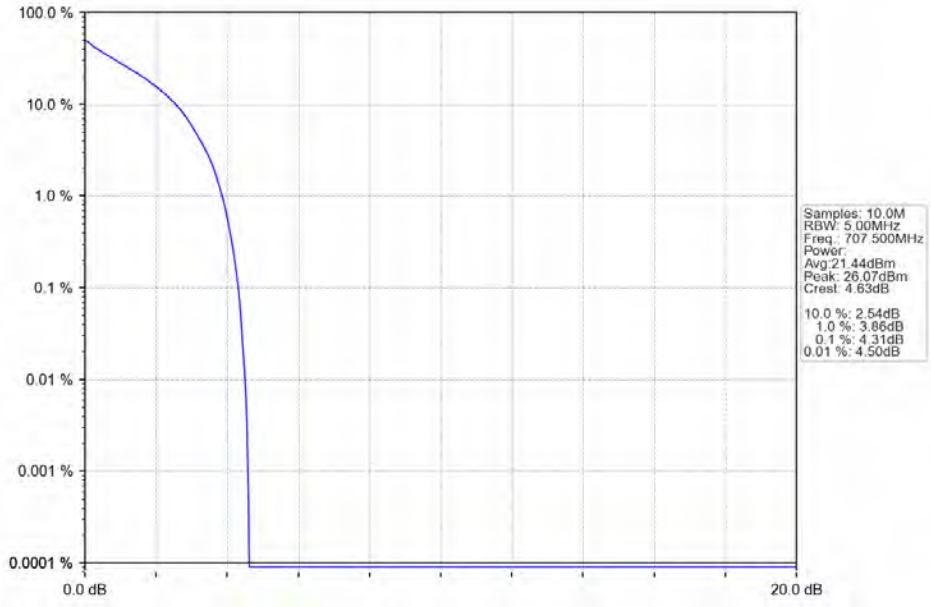
Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	6	0	5.02	<=13	Pass
	707.5	6	0	4.31	<=13	Pass
	715.3	6	0	3.78	<=13	Pass
16QAM	699.7	6	0	5.82	<=13	Pass
	707.5	6	0	5.16	<=13	Pass
	715.3	6	0	4.69	<=13	Pass

5.1.2 Test Graph

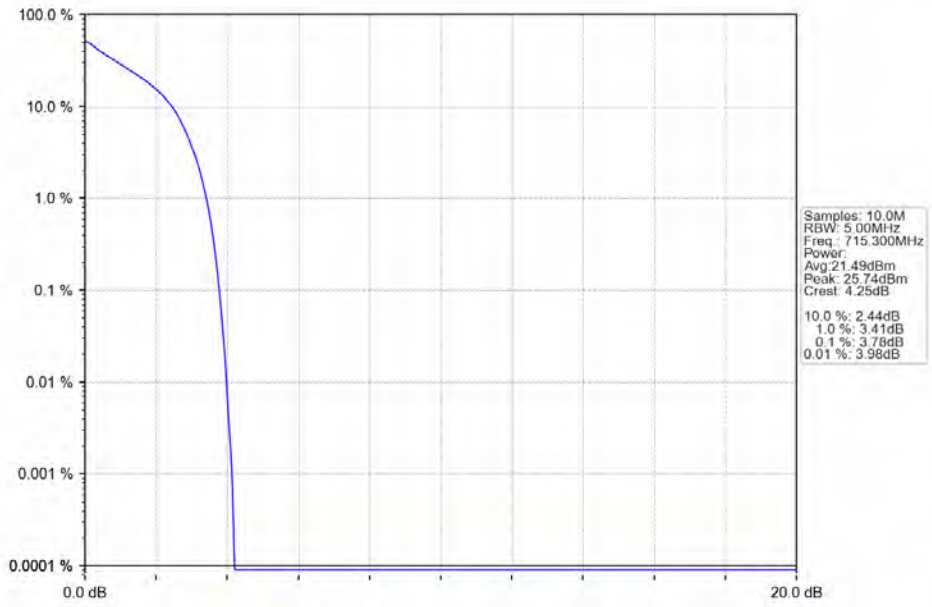
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



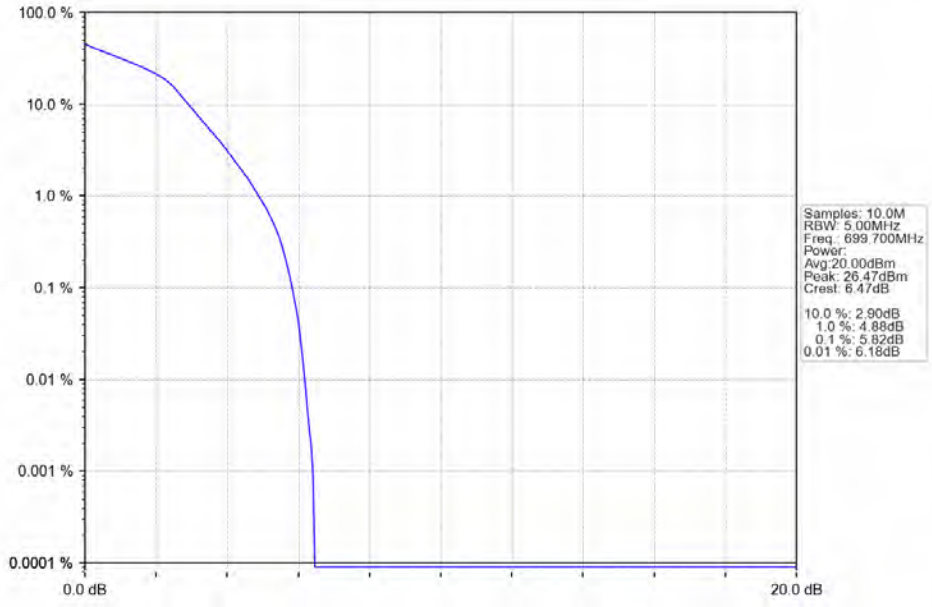
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_6_0_NTNV



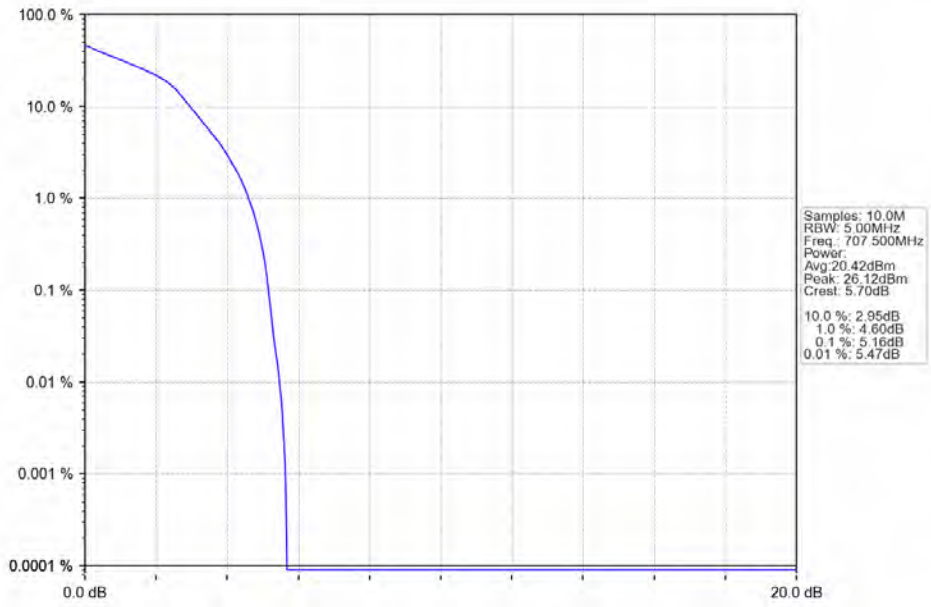
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



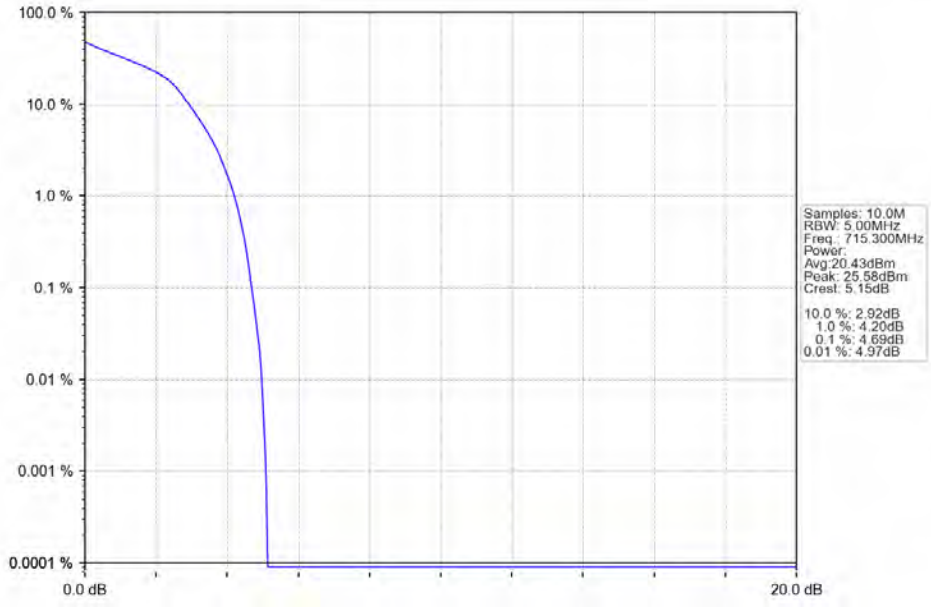
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



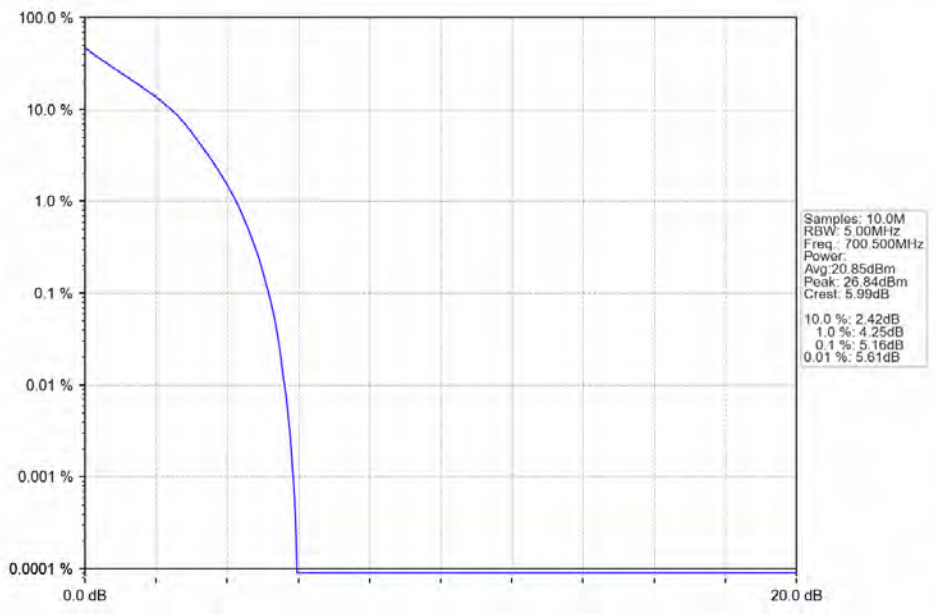
5.2 B12_3MHz

5.2.1 Test Result

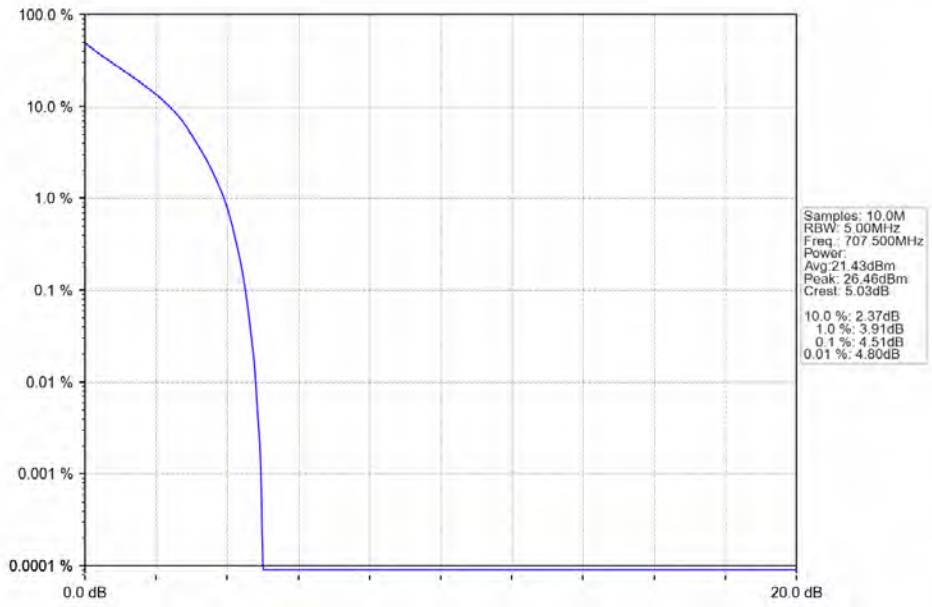
Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	5.16	<=13	Pass
	707.5	15	0	4.51	<=13	Pass
	714.5	15	0	4.23	<=13	Pass
16QAM	700.5	15	0	5.97	<=13	Pass
	707.5	15	0	5.38	<=13	Pass
	714.5	15	0	5.08	<=13	Pass

5.2.2 Test Graph

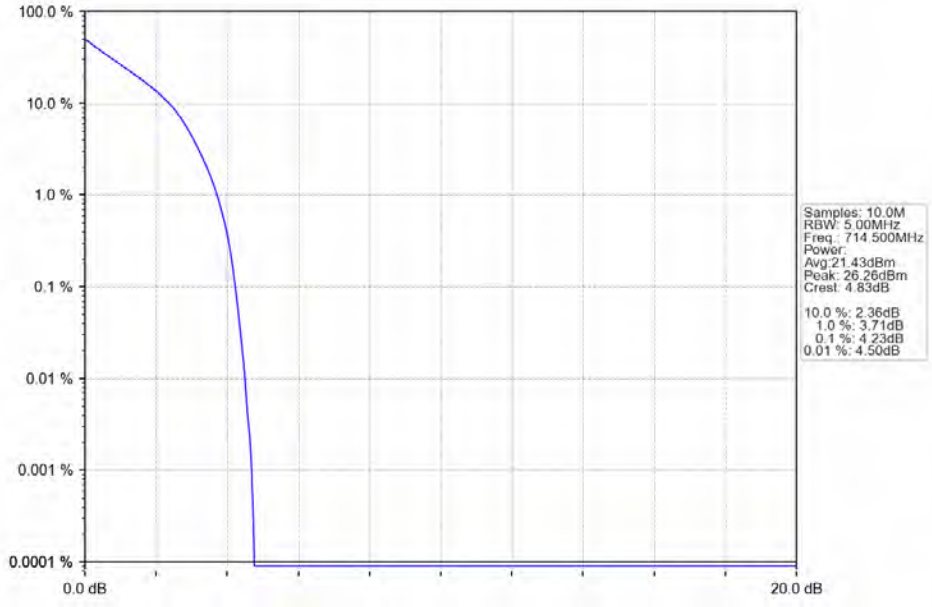
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



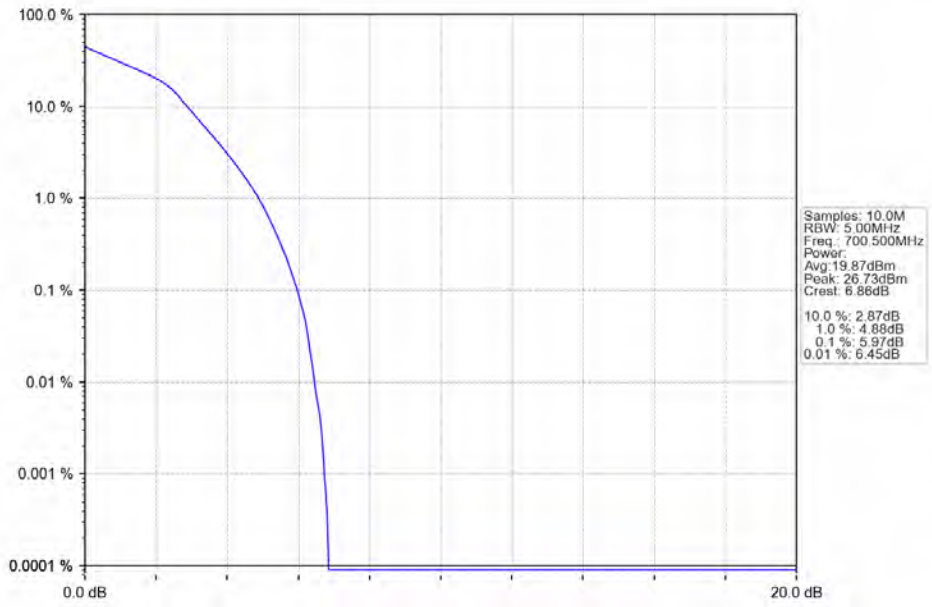
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



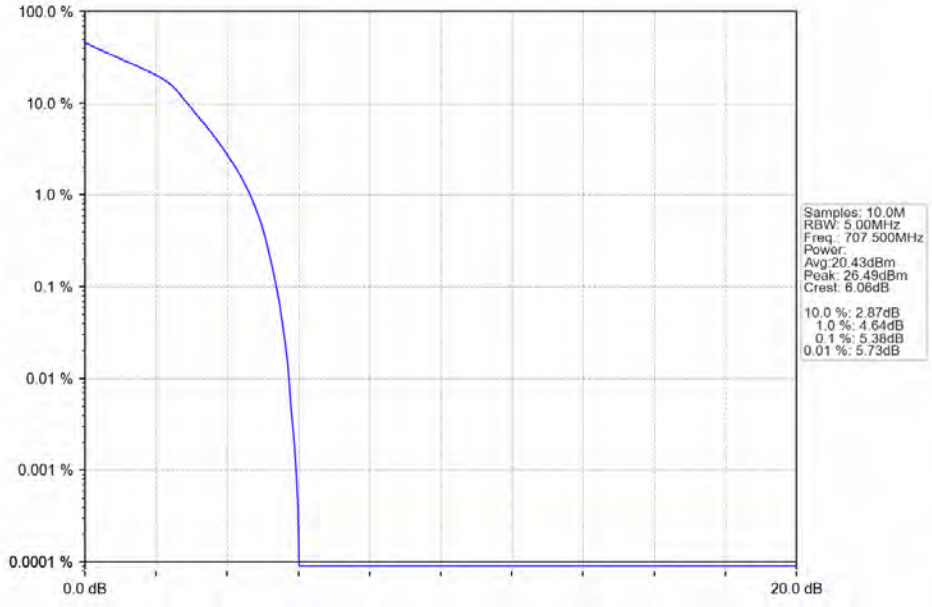
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



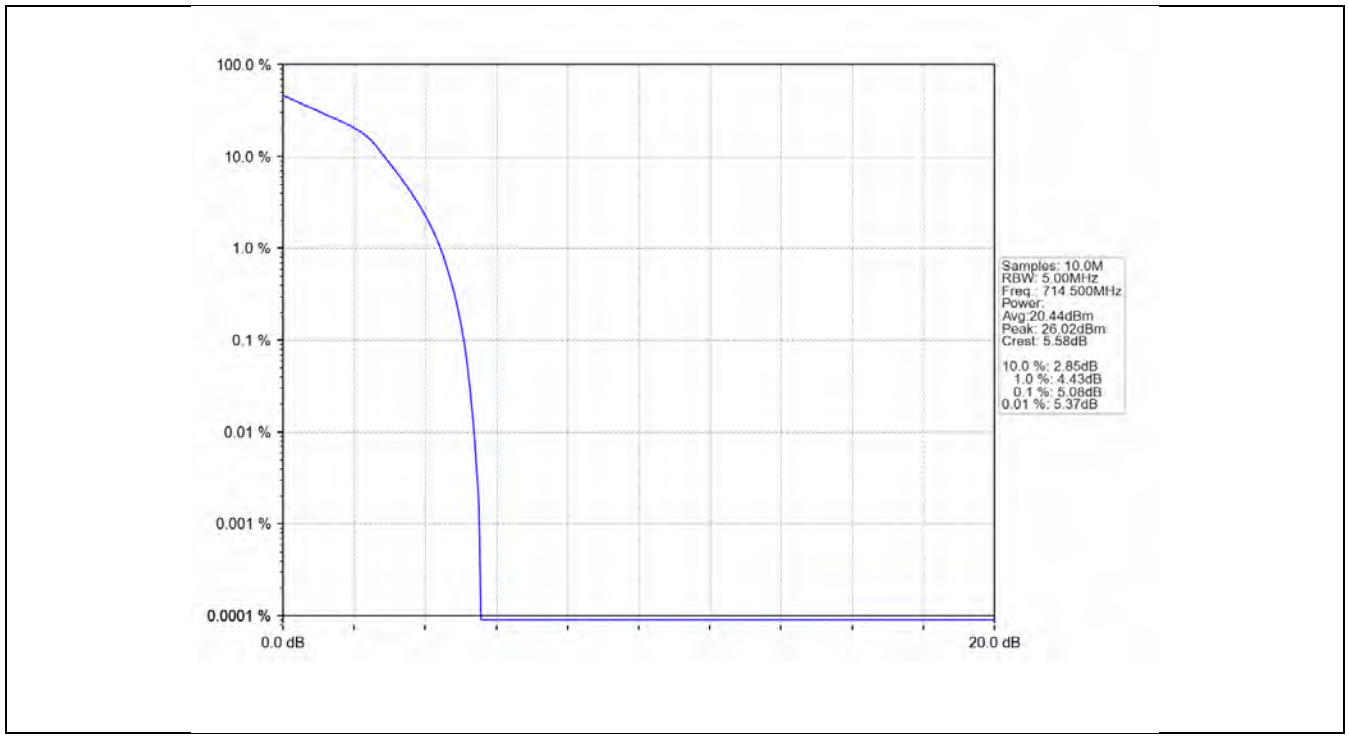
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



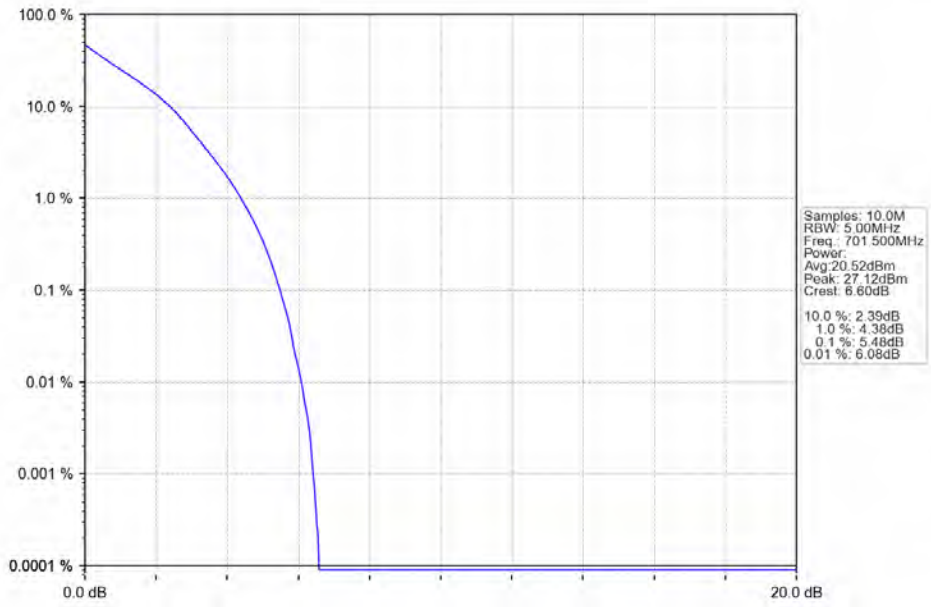
5.3 B12_5MHz

5.3.1 Test Result

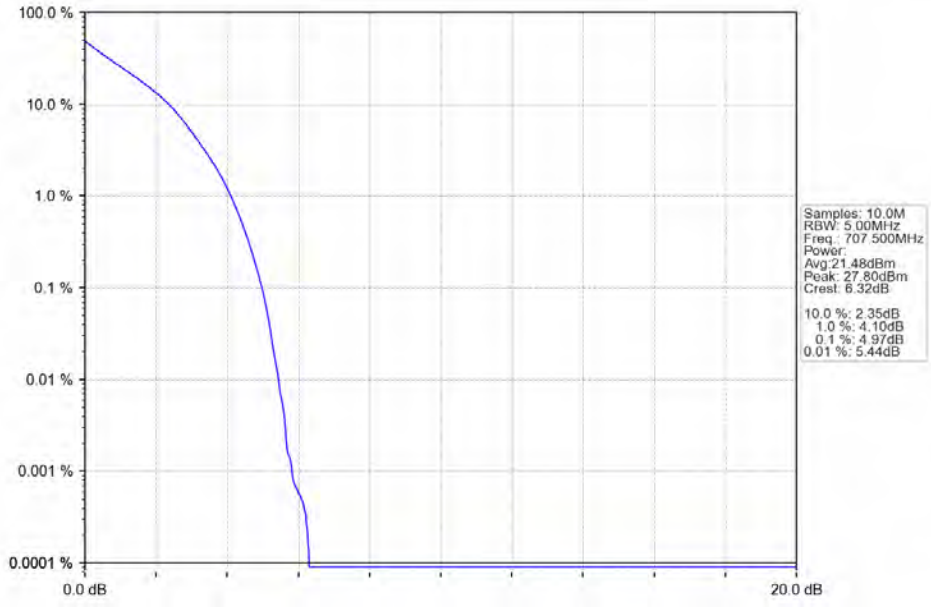
Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	5.48	<=13	Pass
	707.5	25	0	4.97	<=13	Pass
	713.5	25	0	4.97	<=13	Pass
16QAM	701.5	25	0	6.09	<=13	Pass
	707.5	25	0	5.68	<=13	Pass
	713.5	25	0	5.69	<=13	Pass

5.3.2 Test Graph

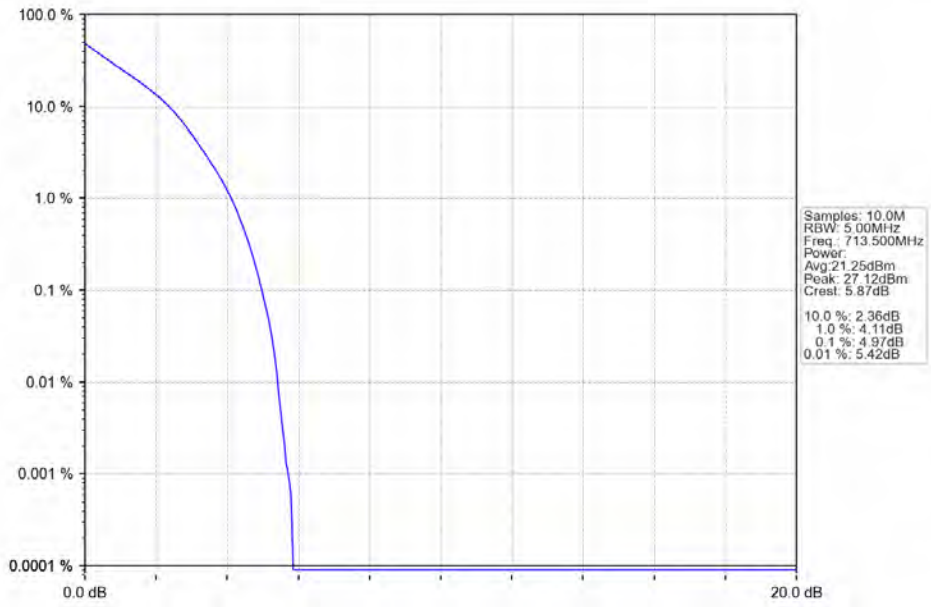
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



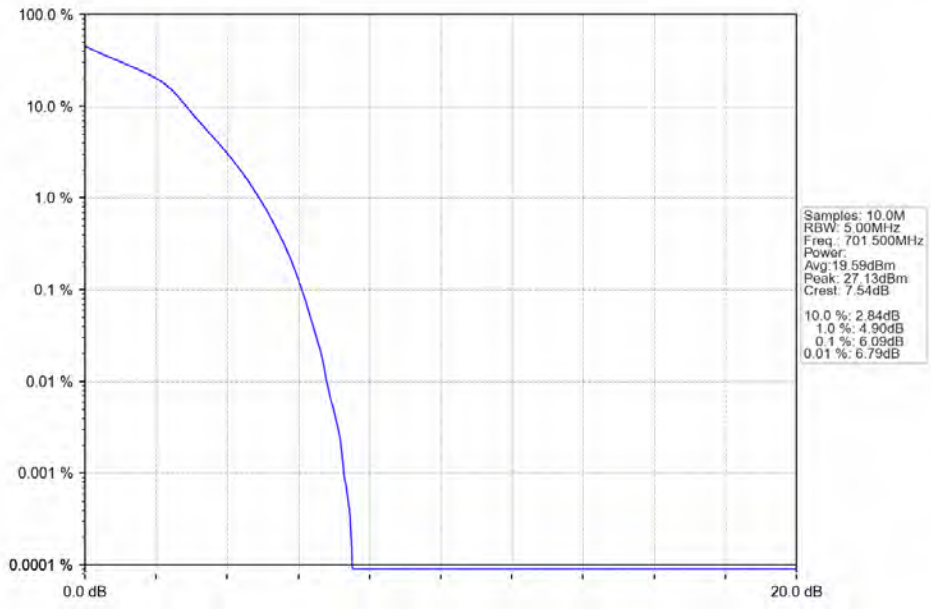
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



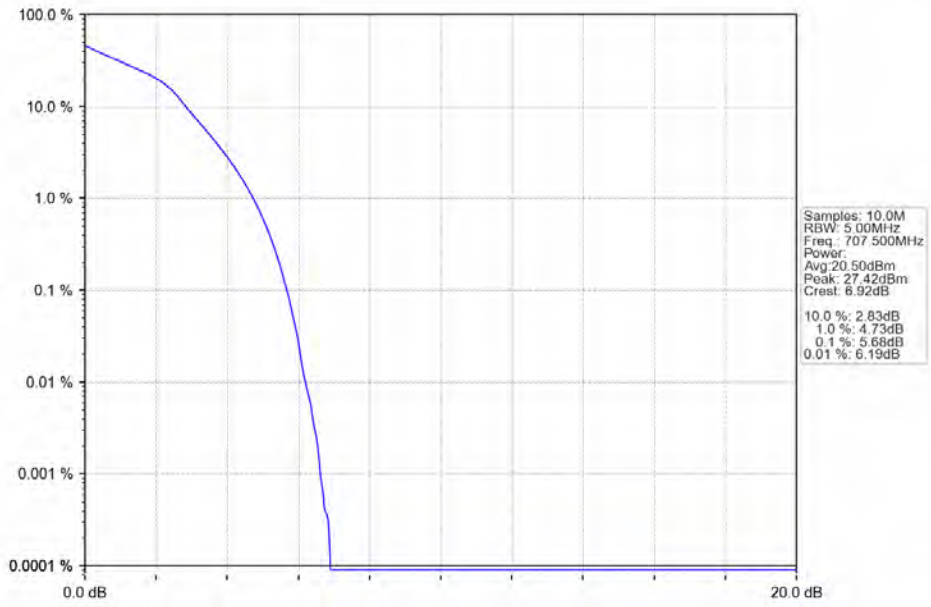
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



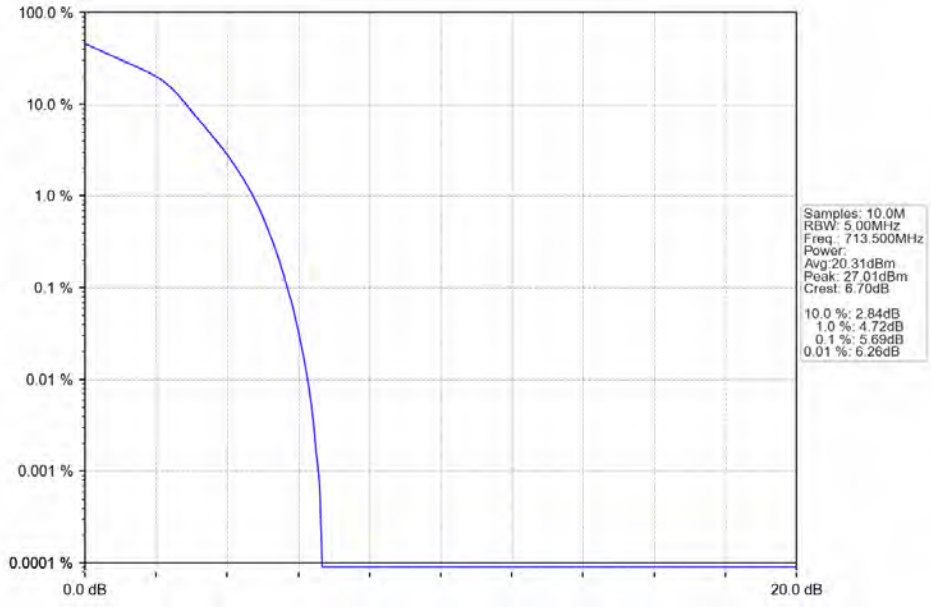
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



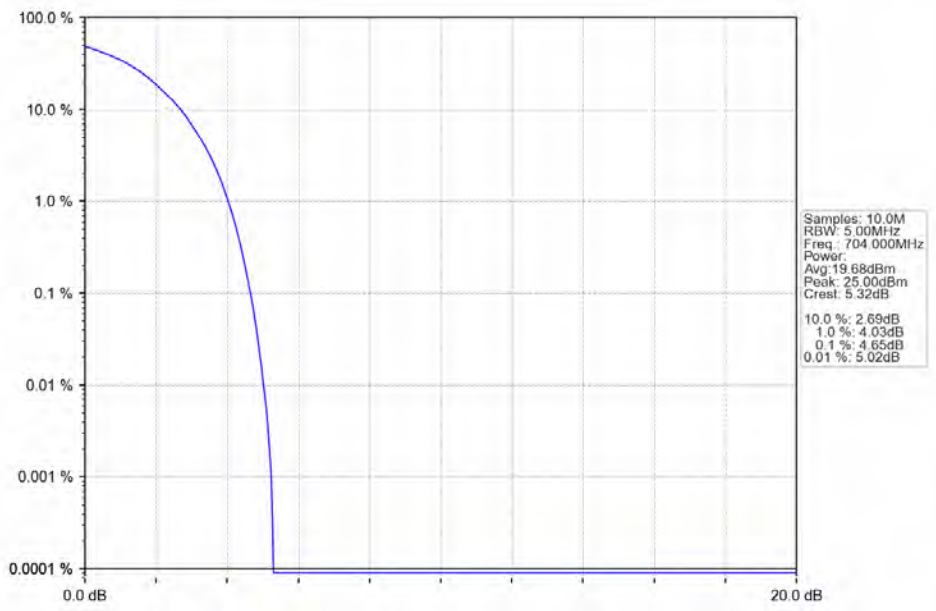
5.4 B12_10MHz

5.4.1 Test Result

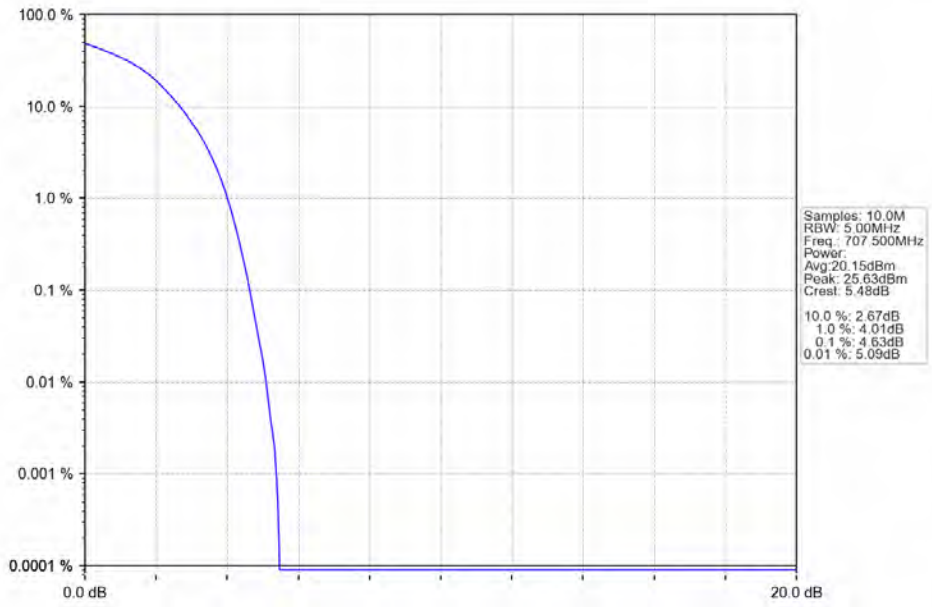
Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	4.65	<=13	Pass
	707.5	50	0	4.63	<=13	Pass
	711	50	0	4.60	<=13	Pass
16QAM	704	50	0	5.96	<=13	Pass
	707.5	50	0	5.88	<=13	Pass
	711	50	0	5.96	<=13	Pass

5.4.2 Test Graph

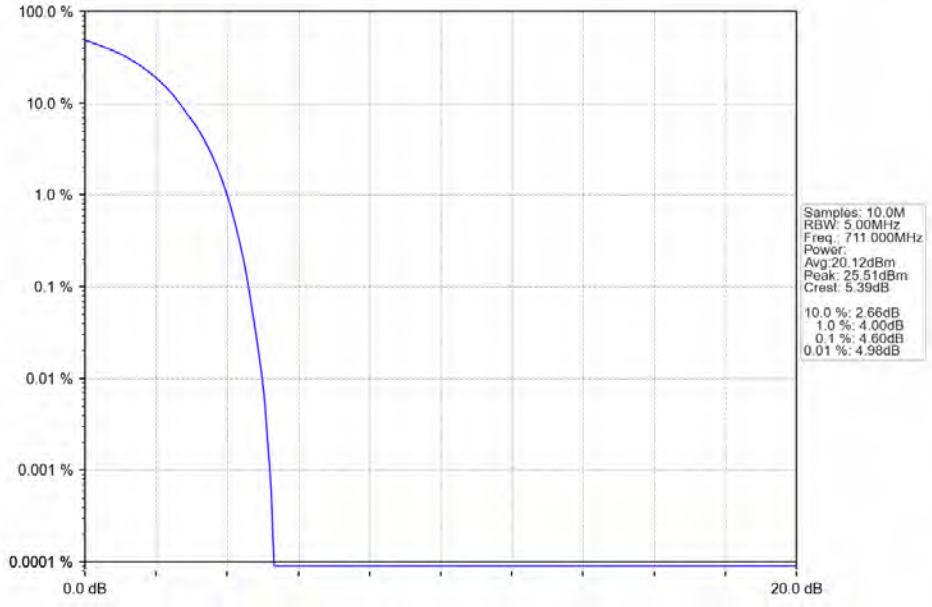
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



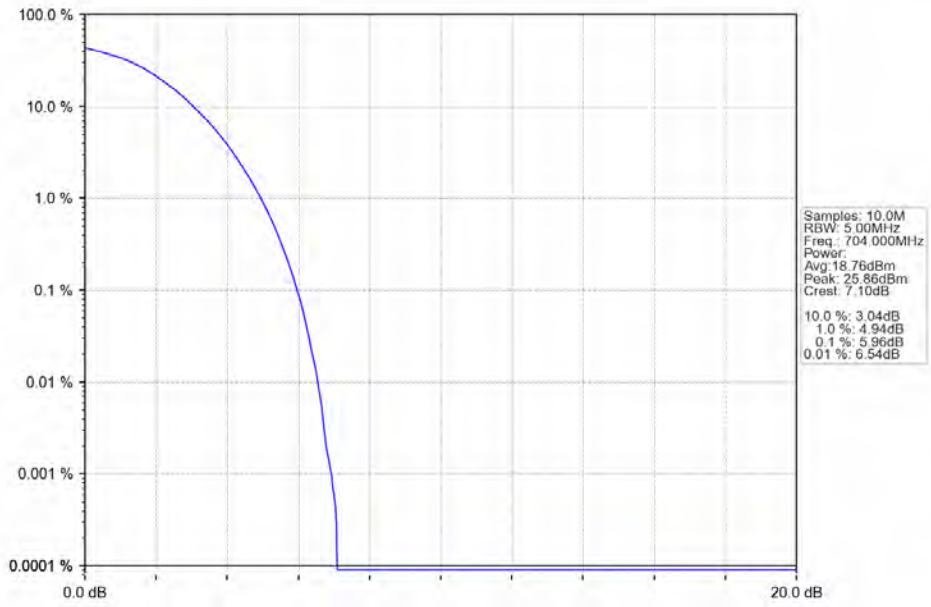
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



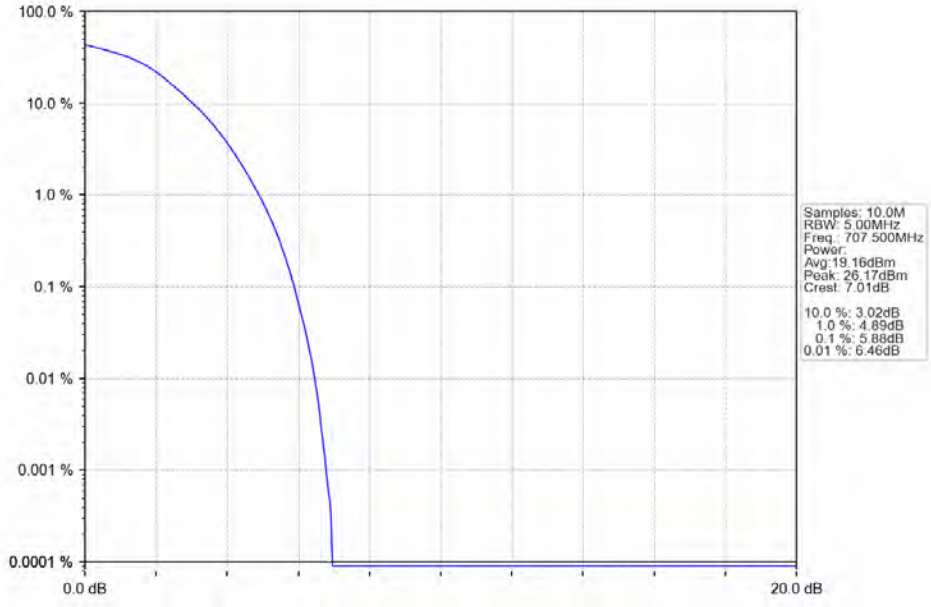
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



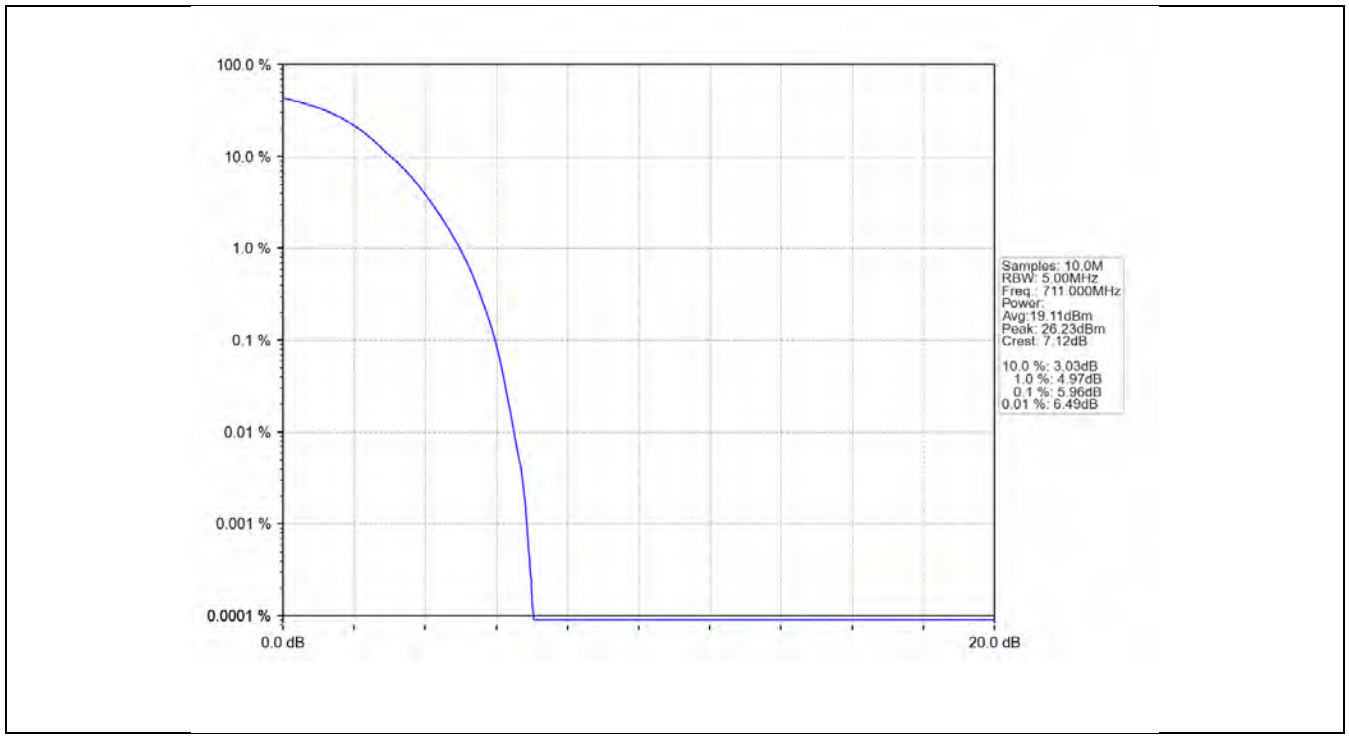
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



6. Spurious Emission

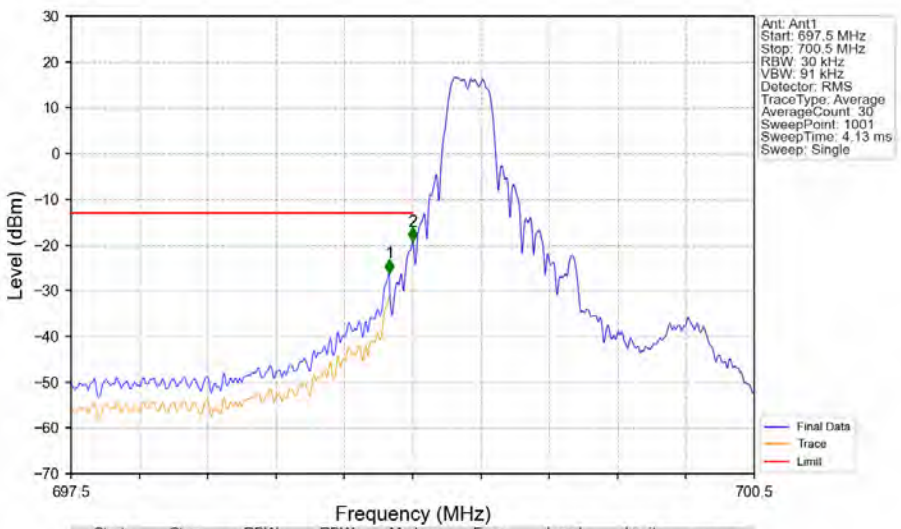
6.1 B12_1.4MHz

6.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		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
	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

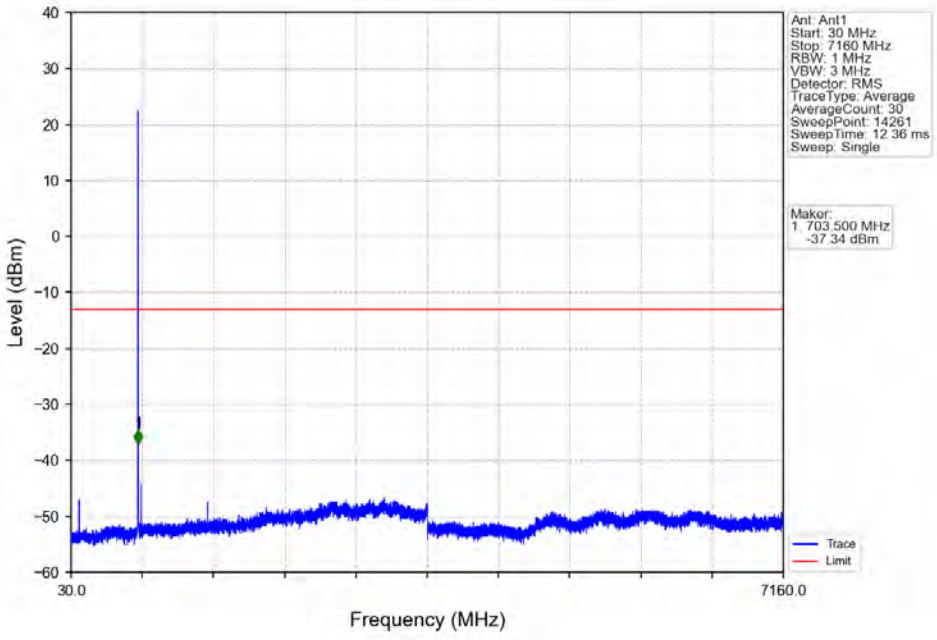
6.1.2 Test Graph

Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV

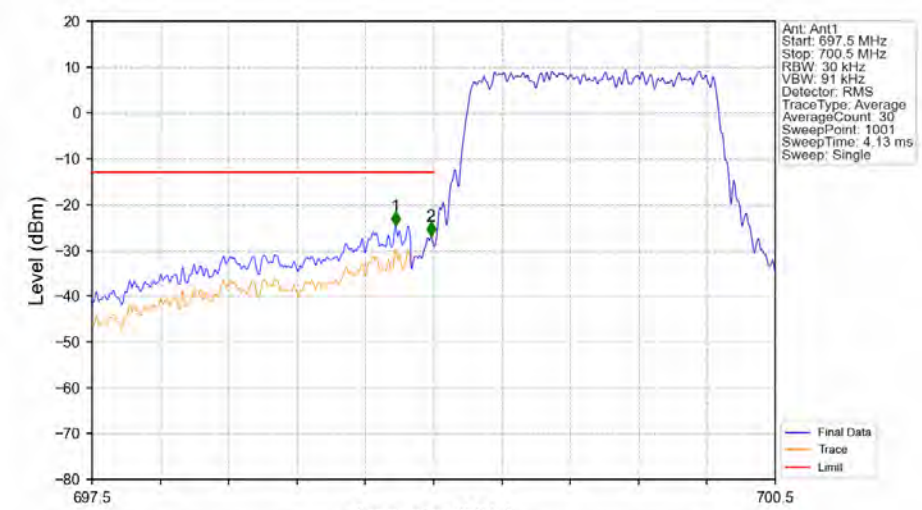


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	5.23	1	698.898	-26.20	-13	Pass
698.9	699	0.03	0	2	699.000	-19.21	-13	Pass
699	700.5	0.03	0	/	/	/	/	/

Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_1_0_NTNV

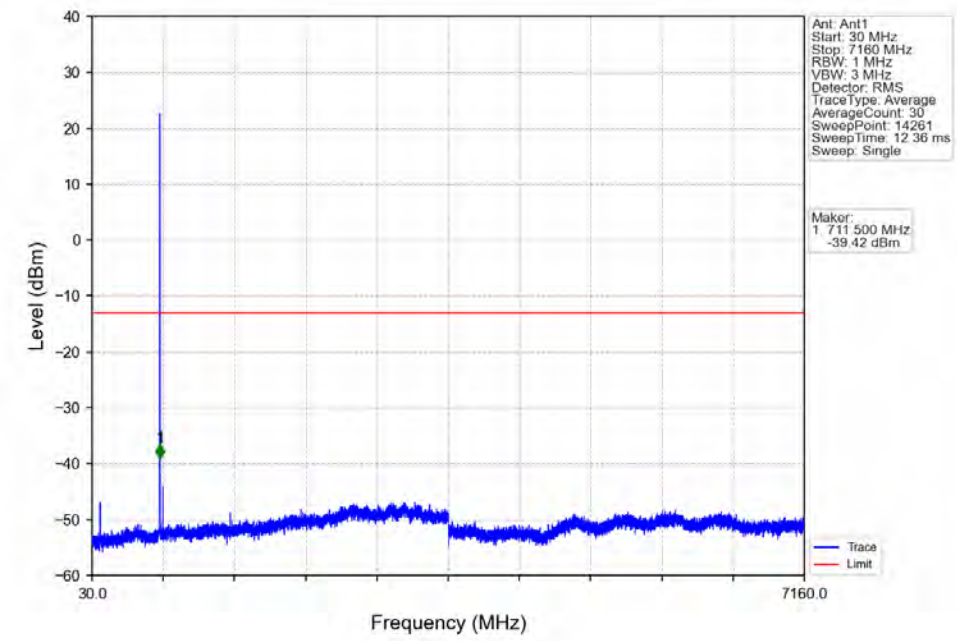


Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV

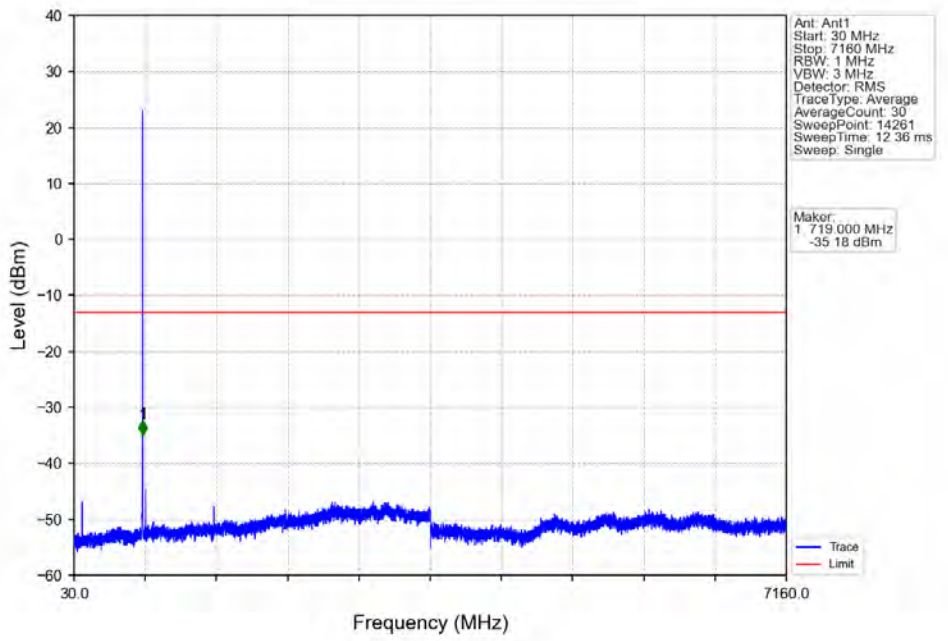


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	5.23	1	698.832	-24.60	-13	Pass
698.9	699	0.03	0	2	698.988	-26.90	-13	Pass
699	700.5	0.03	0	/	/	/	/	/

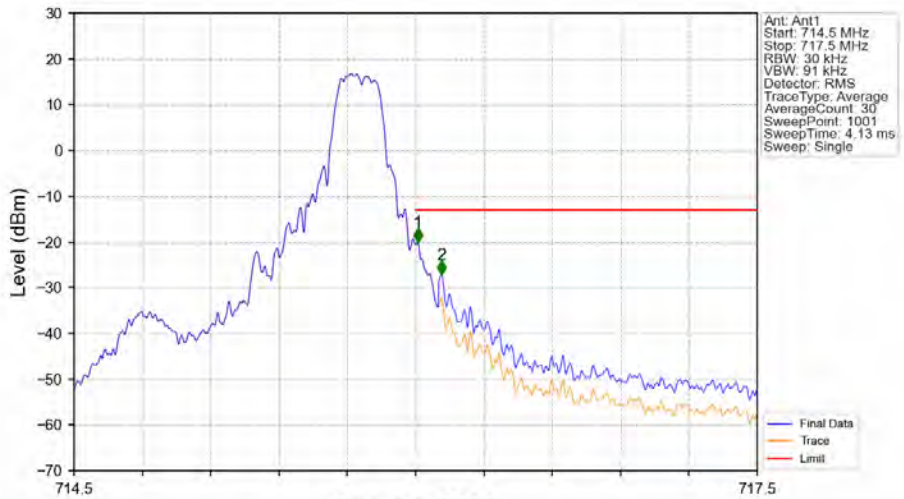
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV

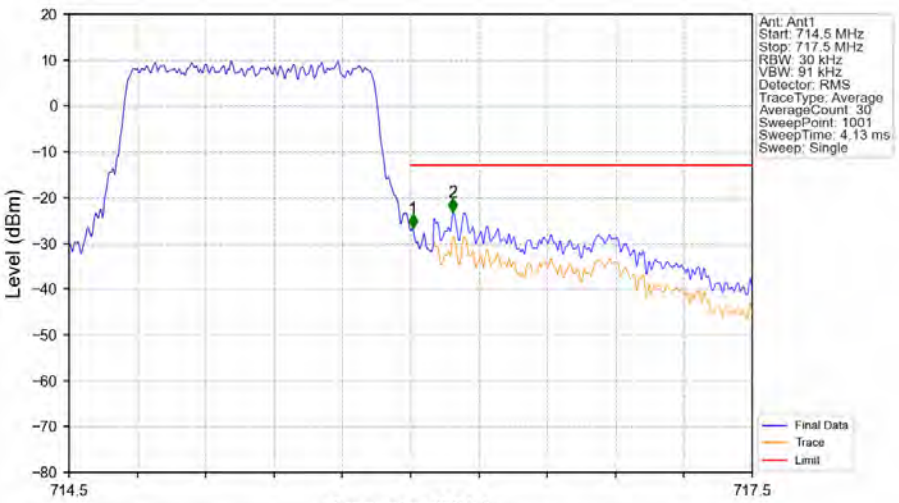


Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_5_NTNV



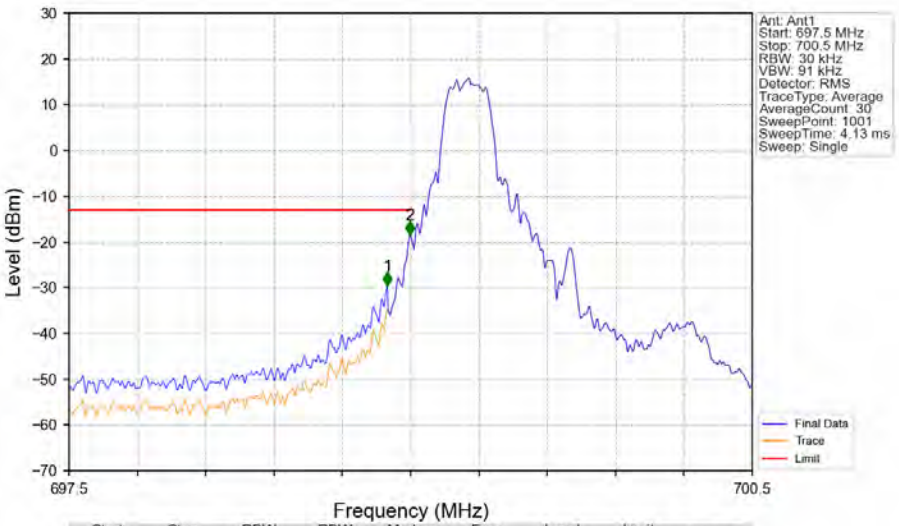
Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.009	-20.16	-13	Pass
716.1	717.5	0.1	5.23	2	716.114	-27.11	-13	Pass

Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



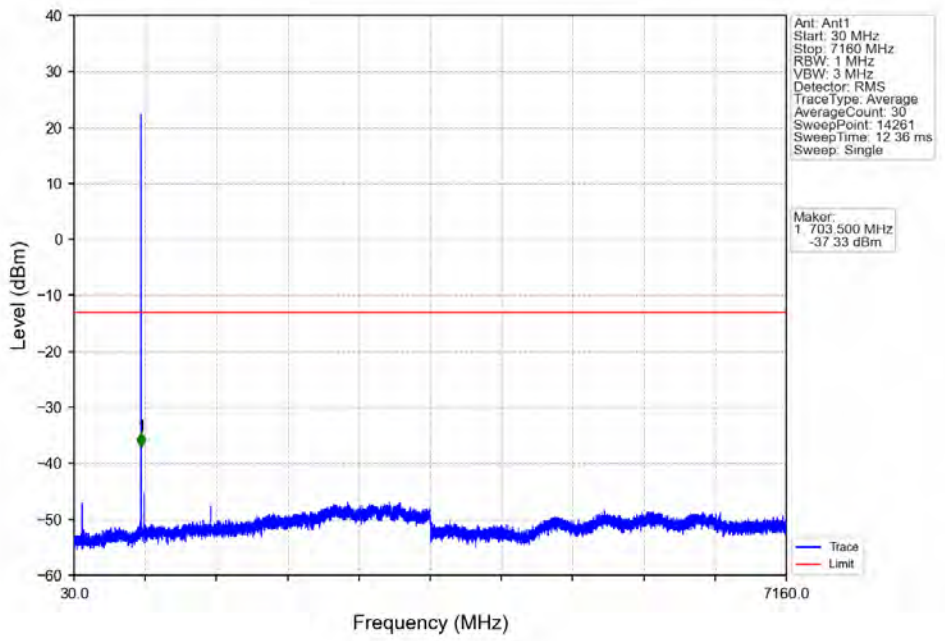
Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.009	-26.70	-13	Pass
716.1	717.5	0.1	5.23	2	716.186	-23.18	-13	Pass

Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV

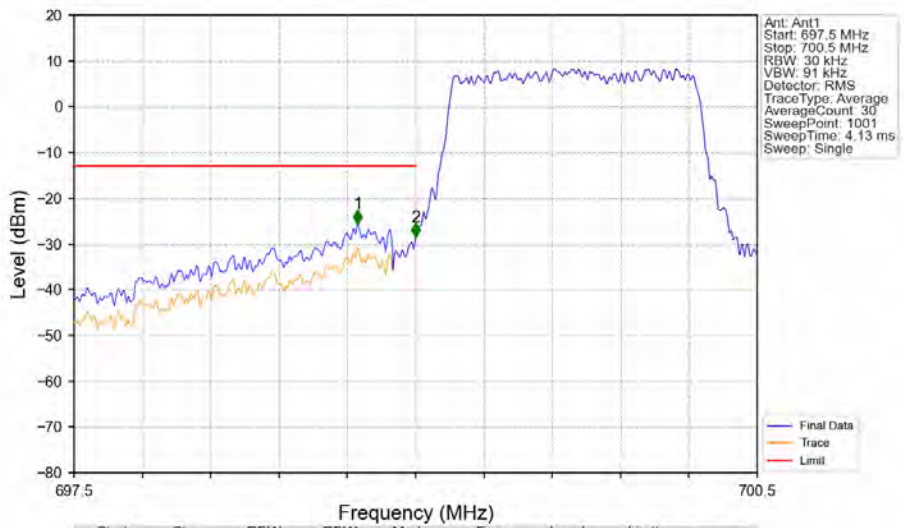


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	5.23	1	698.898	-29.61	-13	Pass
698.9	699	0.03	0	2	698.997	-18.51	-13	Pass
699	700.5	0.03	0	/	/	/	/	/

Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV

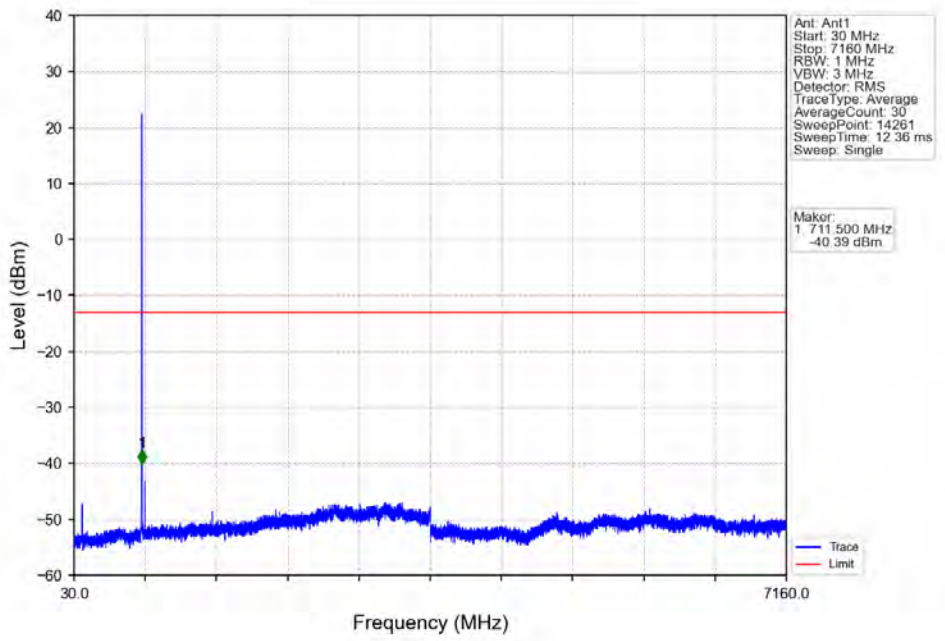


Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV

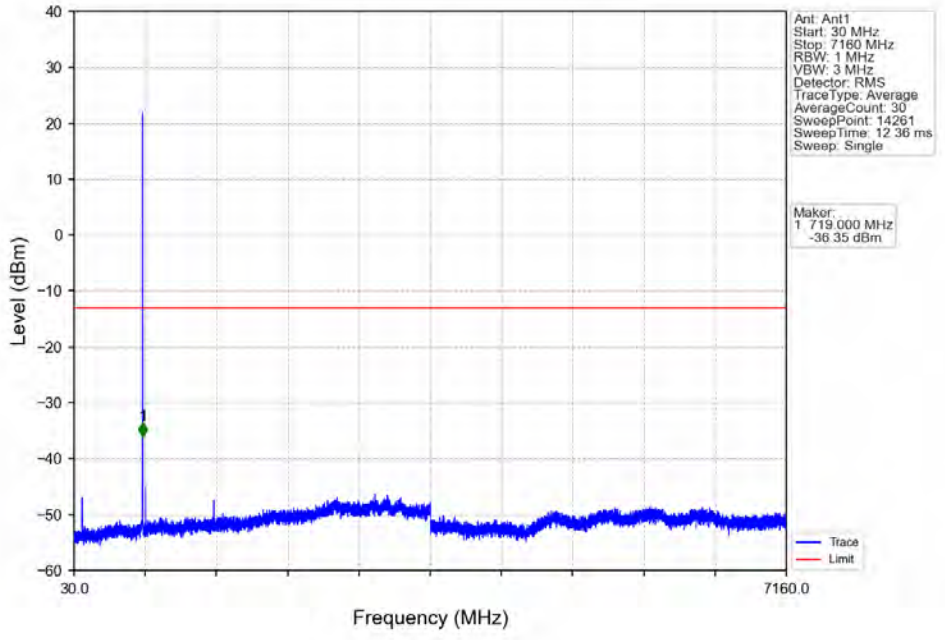


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	5.23	1	698.745	-25.61	-13	Pass
698.9	699	0.03	0	2	699.000	-28.58	-13	Pass
699	700.5	0.03	0	/	/	/	/	/

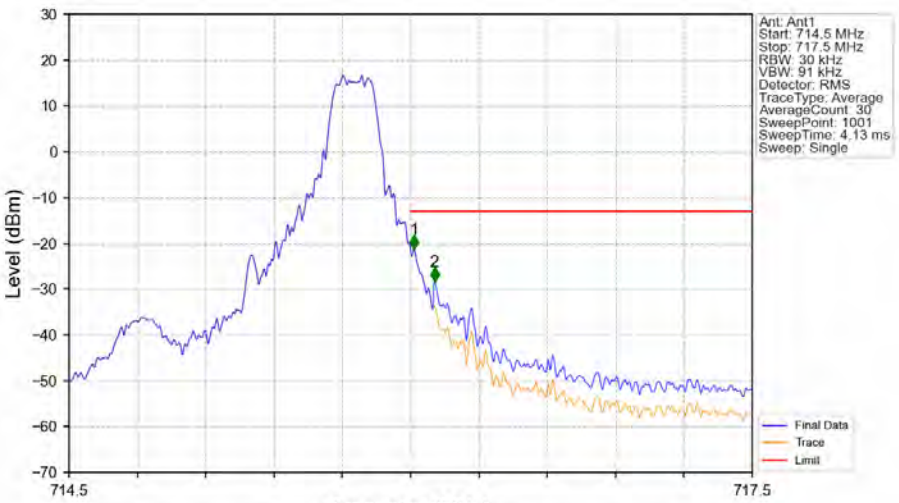
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_1_0_NTNV

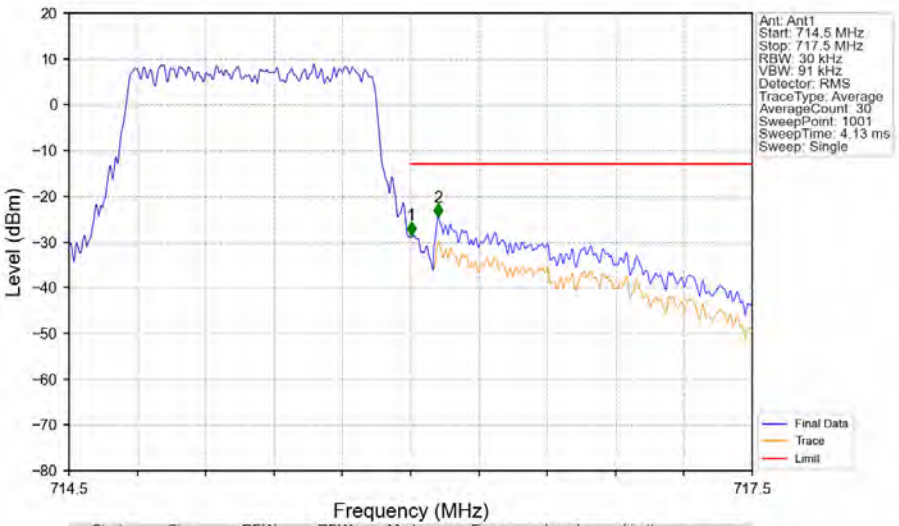


Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_1_5_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.015	-21.32	-13	Pass
716.1	717.5	0.1	5.23	2	716.105	-28.45	-13	Pass

Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.003	-28.61	-13	Pass
716.1	717.5	0.1	5.23	2	716.120	-24.58	-13	Pass

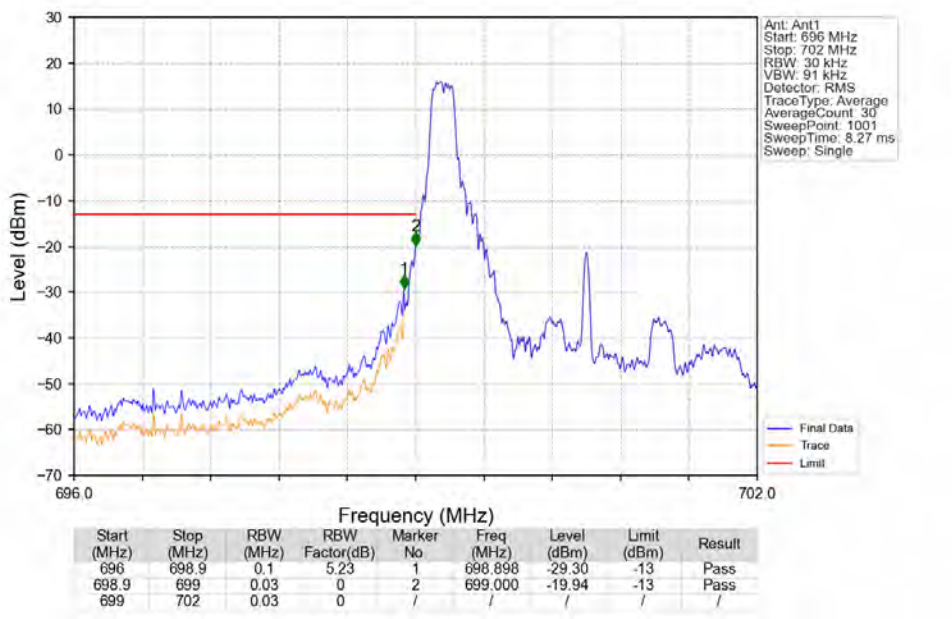
6.2 B12_3MHz

6.2.1 Test Result

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

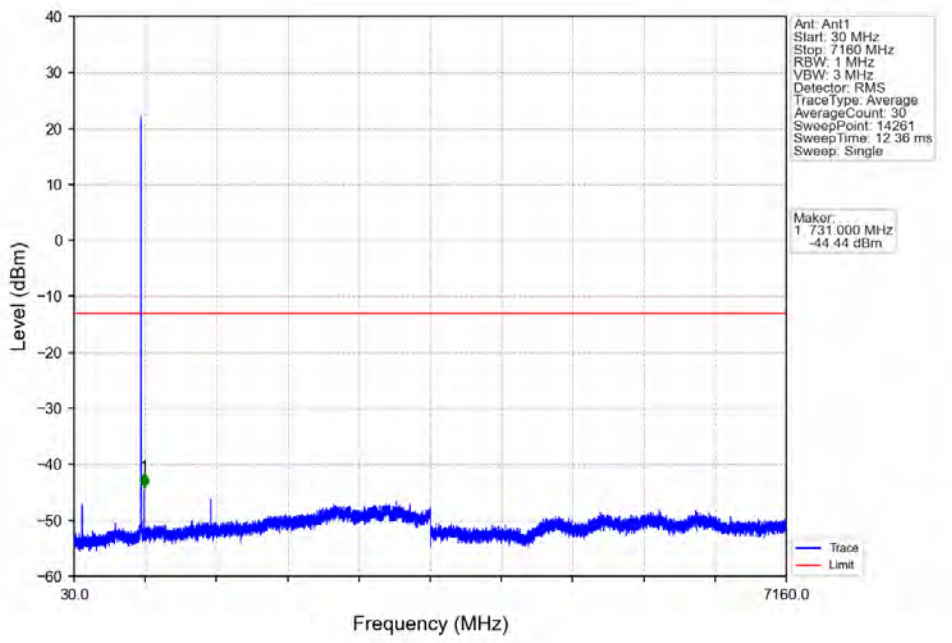
6.2.2 Test Graph

Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV

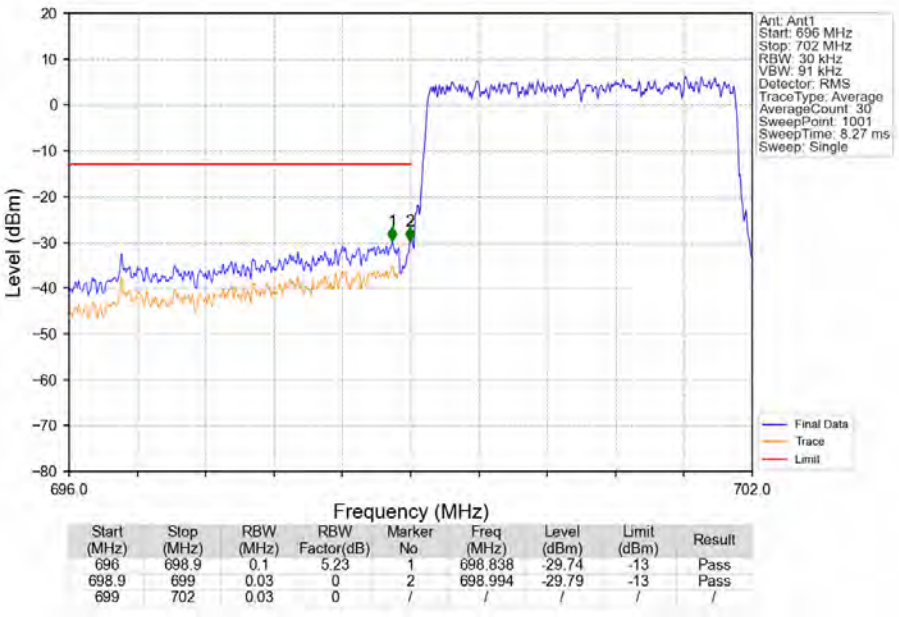


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	5.23	1	698.898	-29.30	-13	Pass
698.9	699	0.03	0	2	699.000	-19.94	-13	Pass
699	702	0.03	0	/	/	/	/	/

Band12_3MHz_QPSK_LCH_700.5MHz_RB_1_0_NTNV

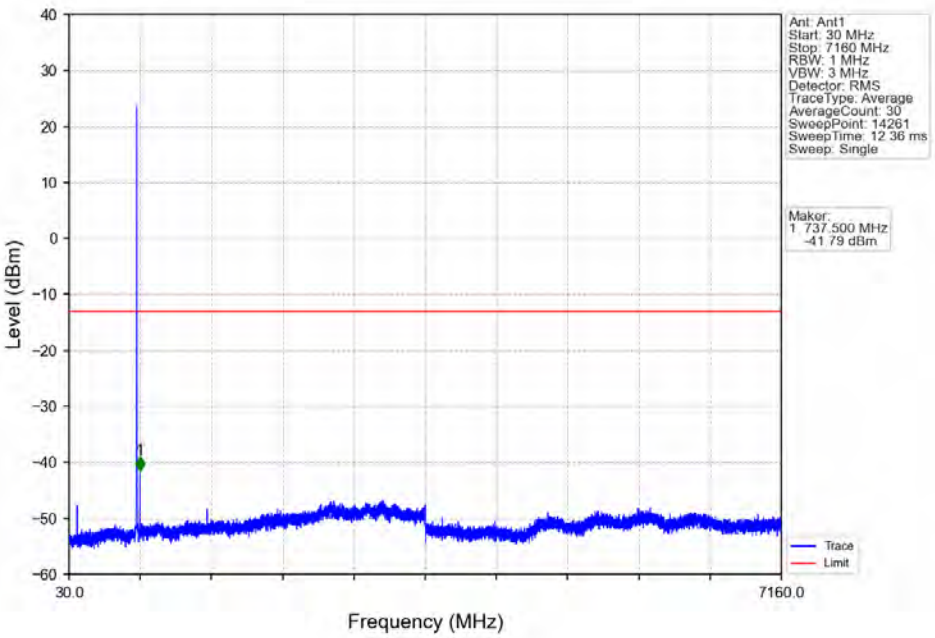


Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV

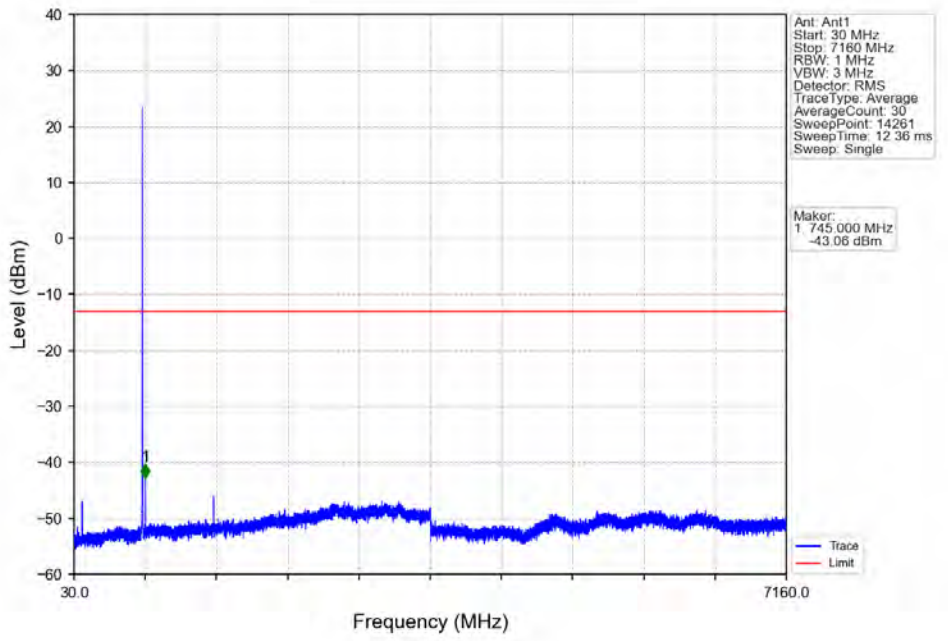


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	5.23	1	698.838	-29.74	-13	Pass
698.9	699	0.03	0	2	698.994	-29.79	-13	Pass
699	702	0.03	0	/	/	/	/	/

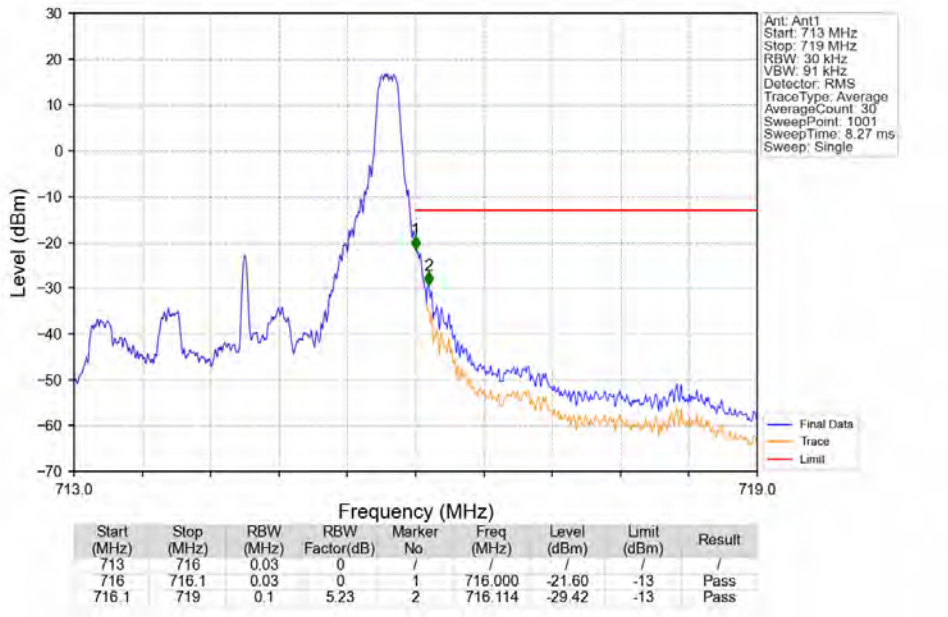
Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_0_NTNV

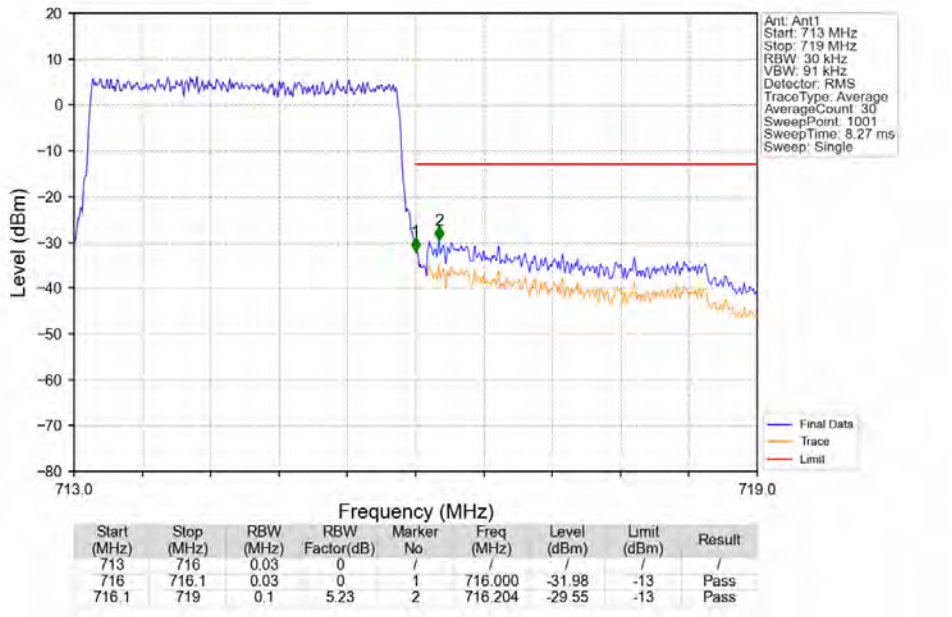


Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_14_NTNV



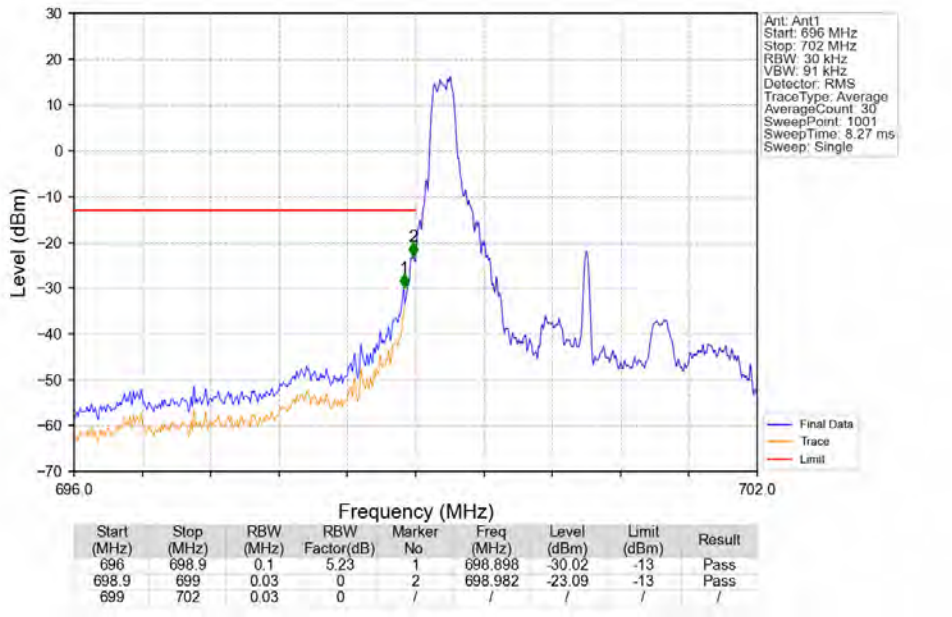
Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.000	-21.60	-13	Pass
716.1	719	0.1	5.23	2	716.114	-29.42	-13	Pass

Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



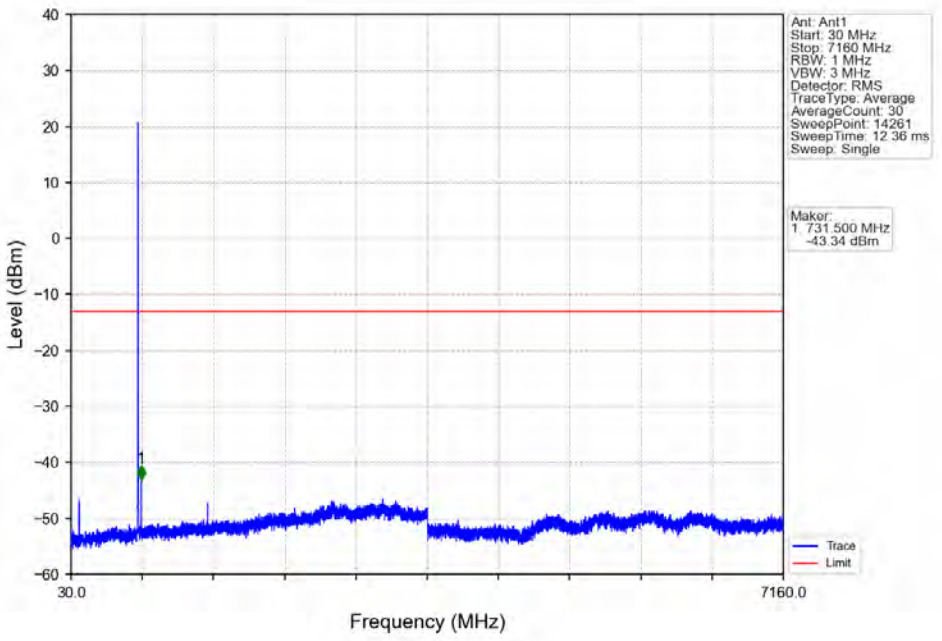
Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.000	-31.98	-13	Pass
716.1	719	0.1	5.23	2	716.204	-29.55	-13	Pass

Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV

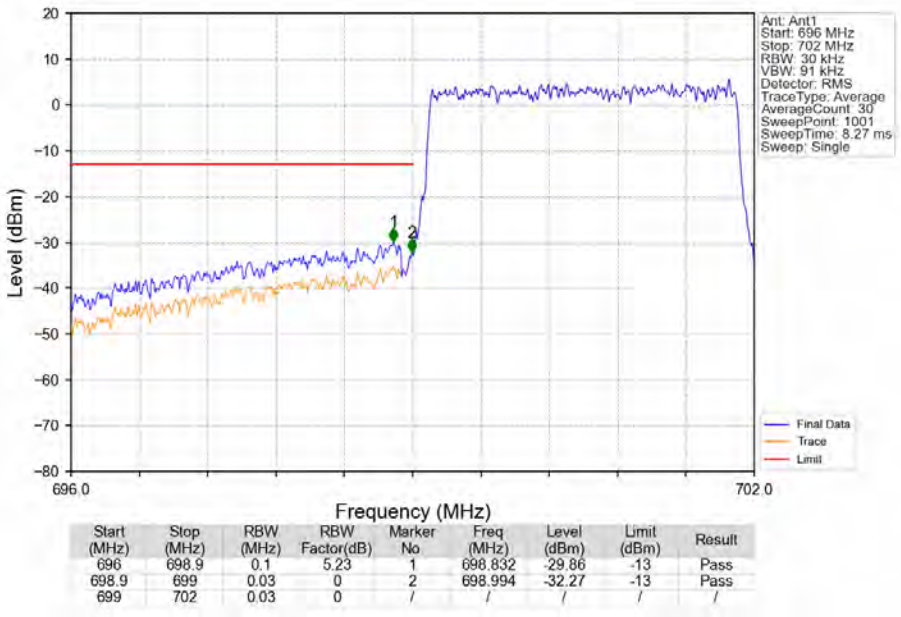


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	5.23	1	698.898	-30.02	-13	Pass
698.9	699	0.03	0	2	698.982	-23.09	-13	Pass
699	702	0.03	0	/	/	/	/	/

Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV

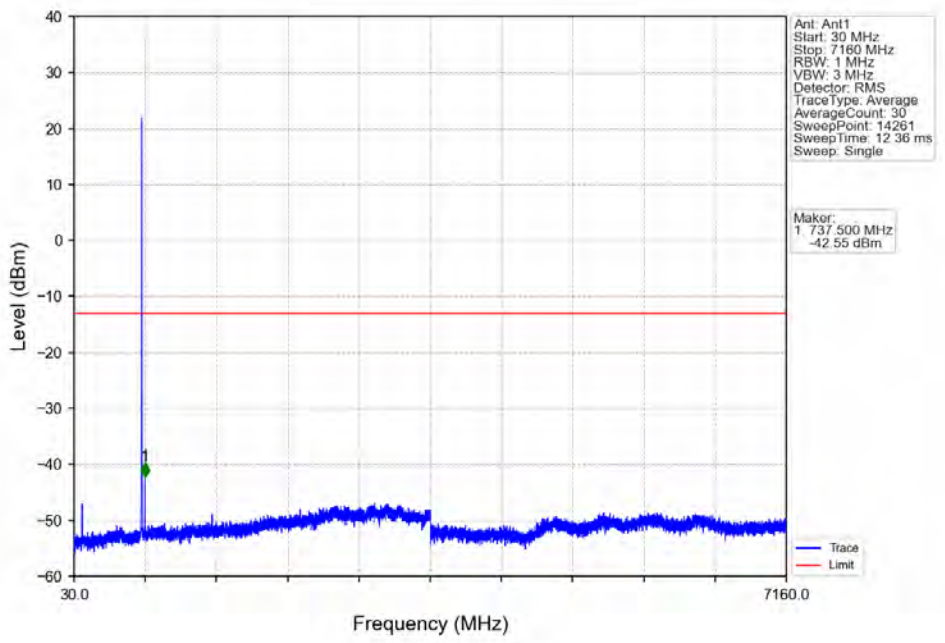


Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV

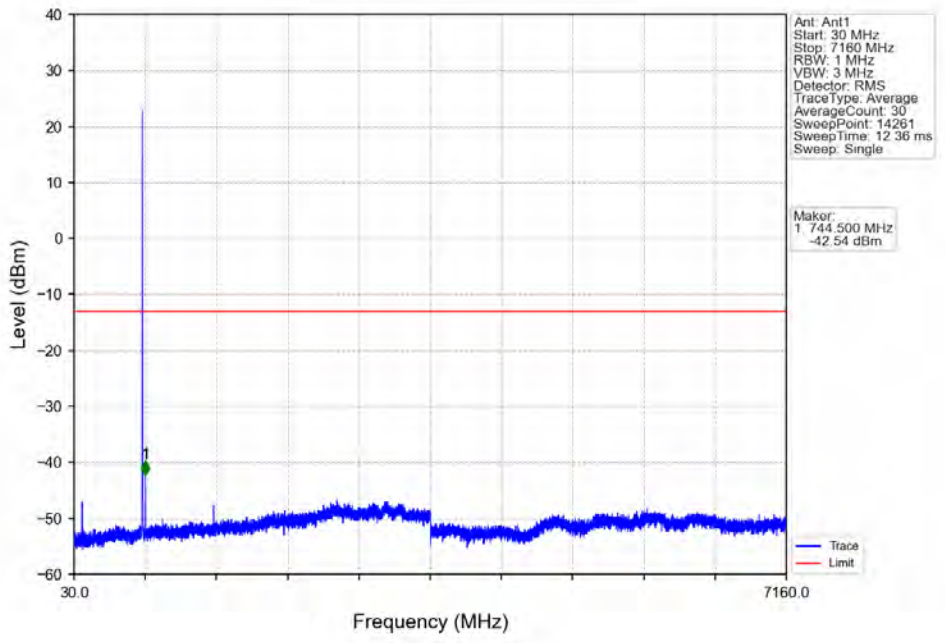


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	5.23	1	698.832	-29.86	-13	Pass
698.9	699	0.03	0	2	698.994	-32.27	-13	Pass
699	702	0.03	0	/	/	/	/	/

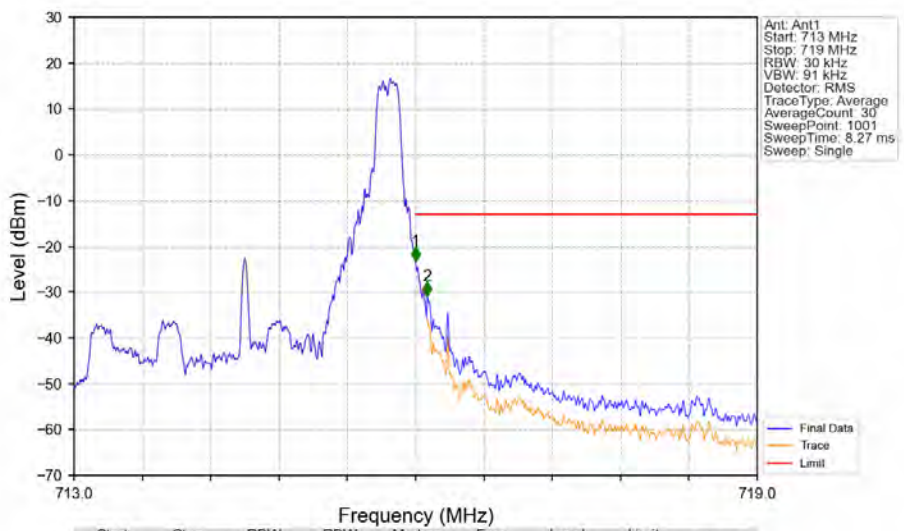
Band12_3MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_0_NTNV

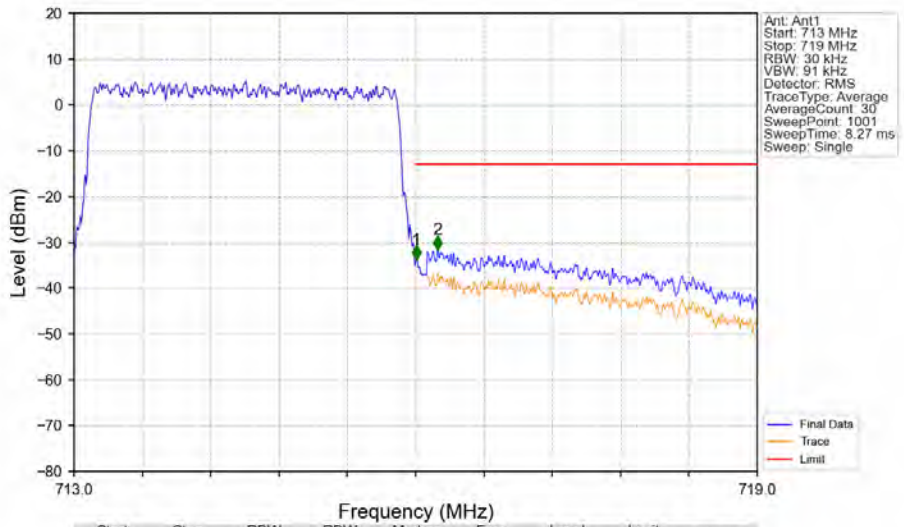


Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_14_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.000	-23.21	-13	Pass
716.1	719	0.1	5.23	2	716.102	-30.83	-13	Pass

Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.006	-33.79	-13	Pass
716.1	719	0.1	5.23	2	716.192	-31.59	-13	Pass

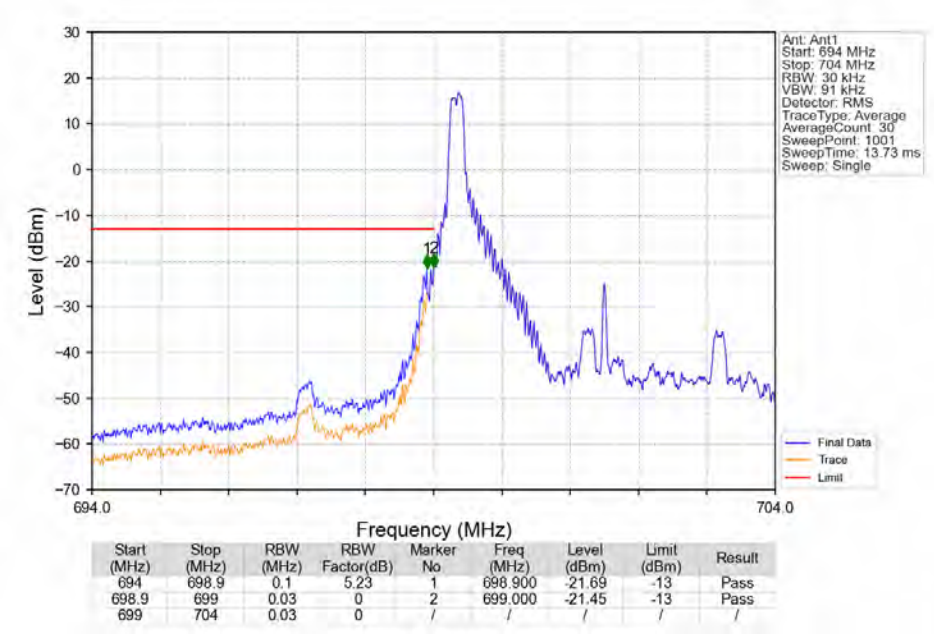
6.3 B12_5MHz

6.3.1 Test Result

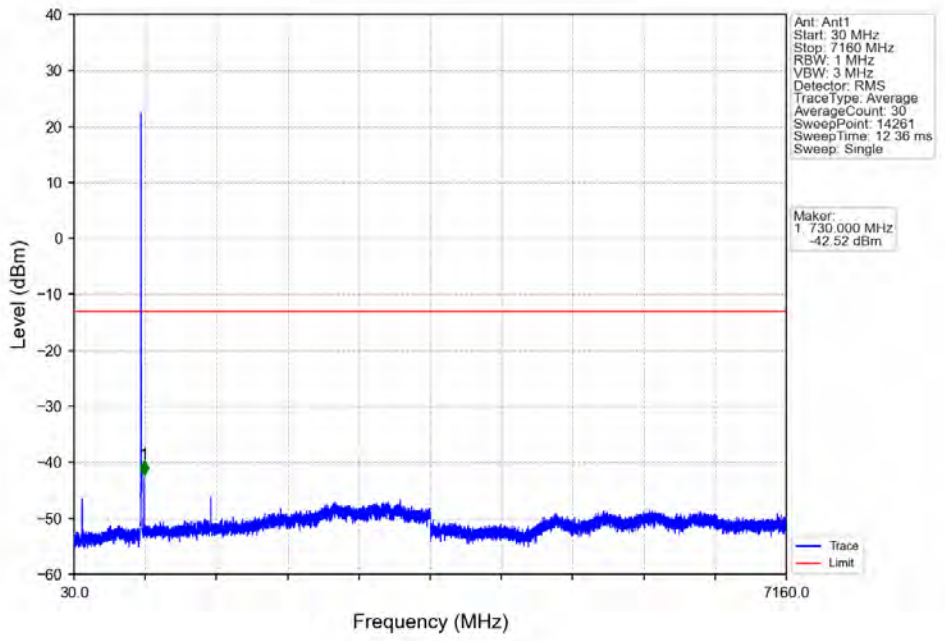
Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test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

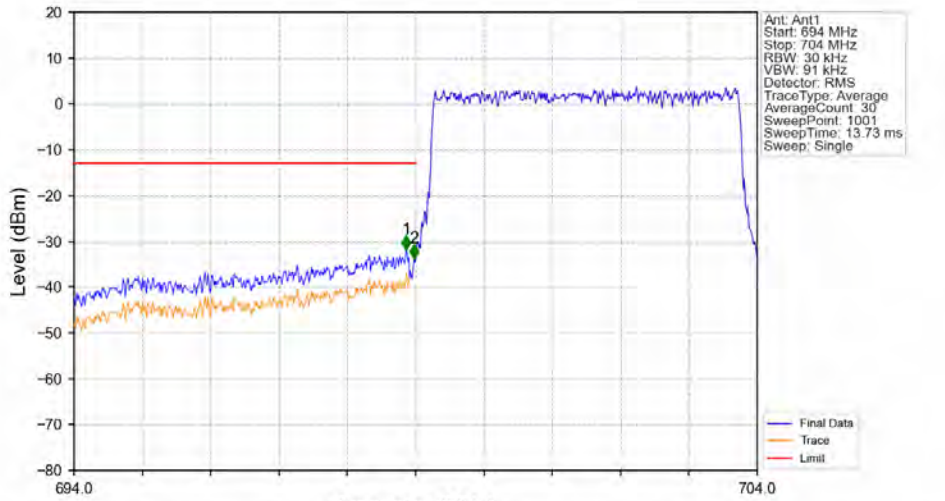
Band12_5MHz_QPSK_LCH_701.5MHz_RB_1_0_NTNV



Band12_5MHz_QPSK_LCH_701.5MHz_RB_1_0_NTNV

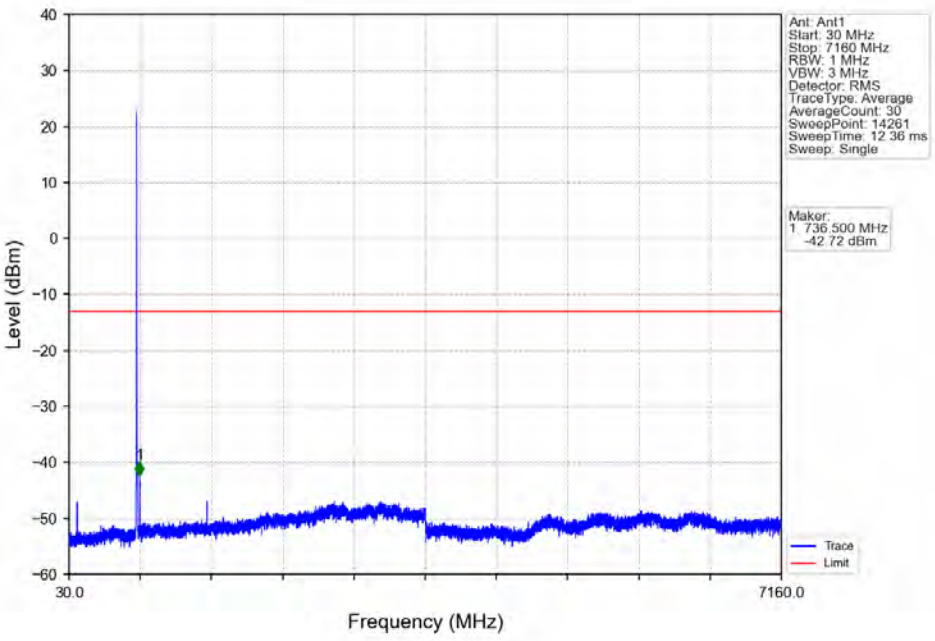


Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV

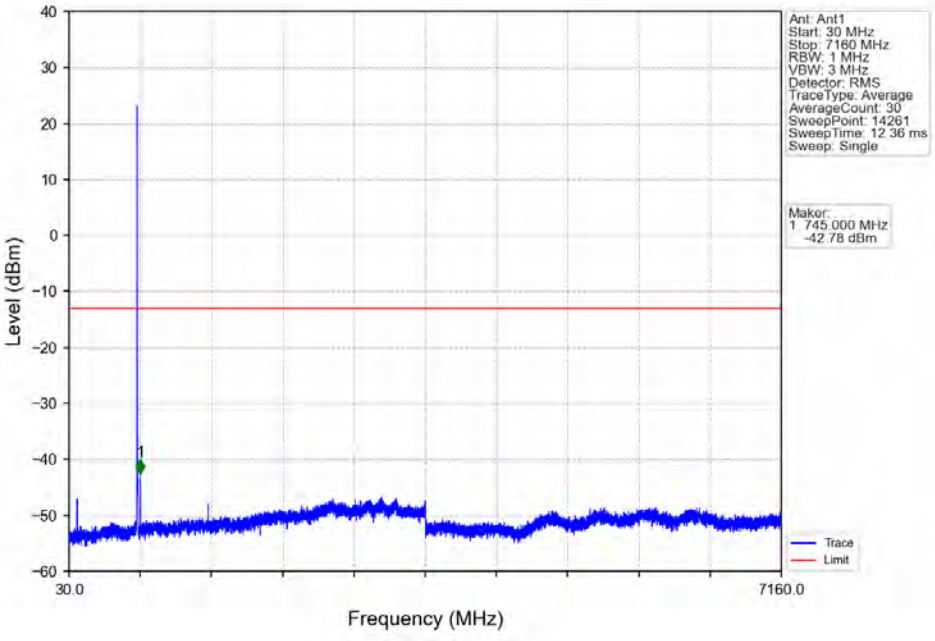


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	5.23	1	698.860	-31.79	-13	Pass
698.9	699	0.03	0	2	698.980	-33.72	-13	Pass
699	704	0.03	0	/	/	/	/	/

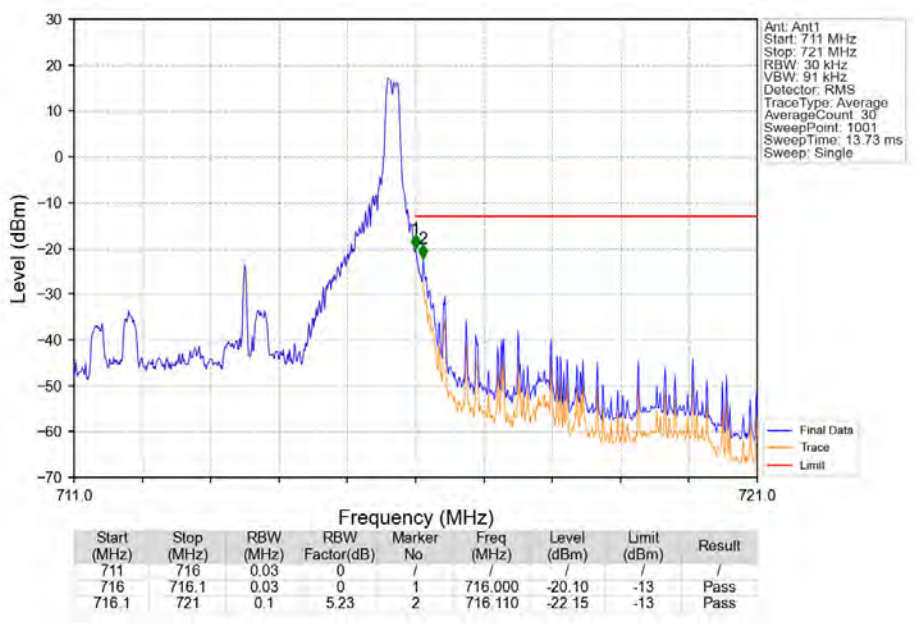
Band12_5MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

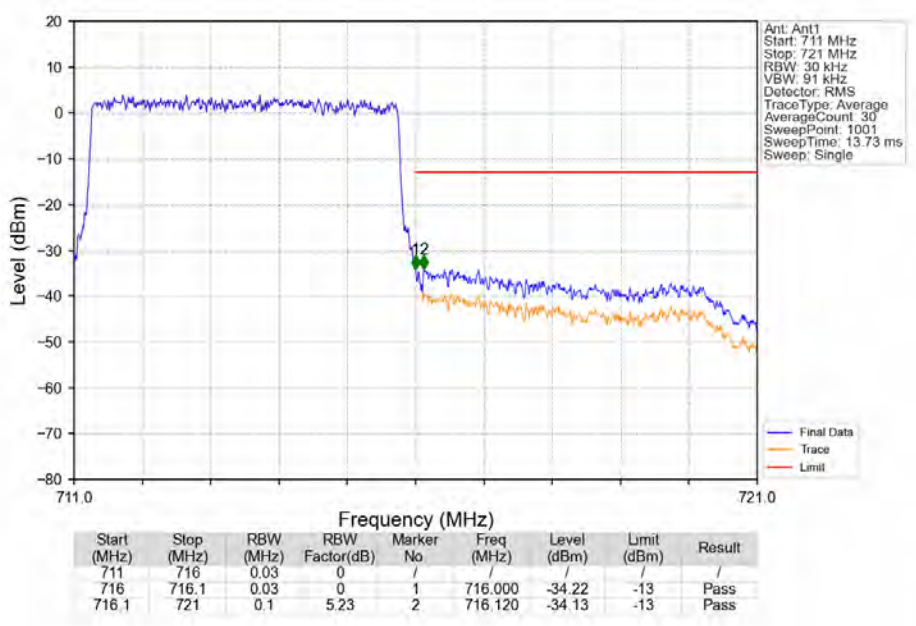


Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



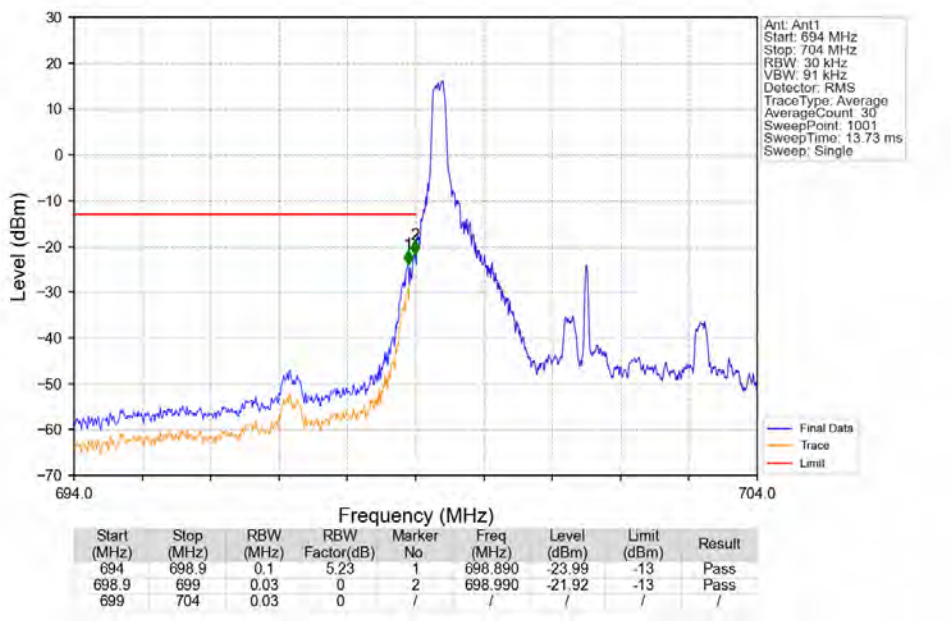
Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.000	-20.10	-13	Pass
716.1	721	0.1	5.23	2	716.110	-22.15	-13	Pass

Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



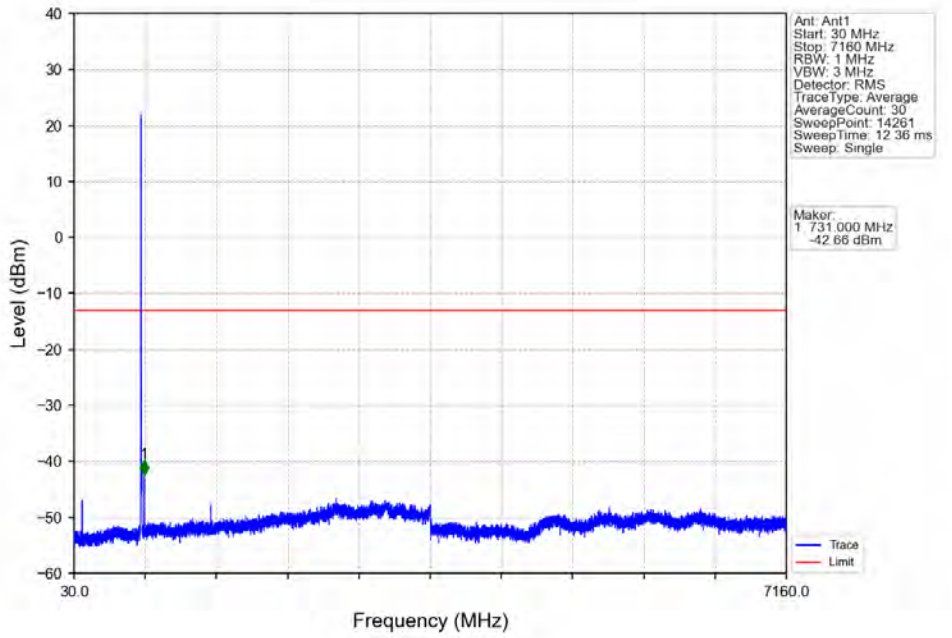
Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.000	-34.22	-13	Pass
716.1	721	0.1	5.23	2	716.120	-34.13	-13	Pass

Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV

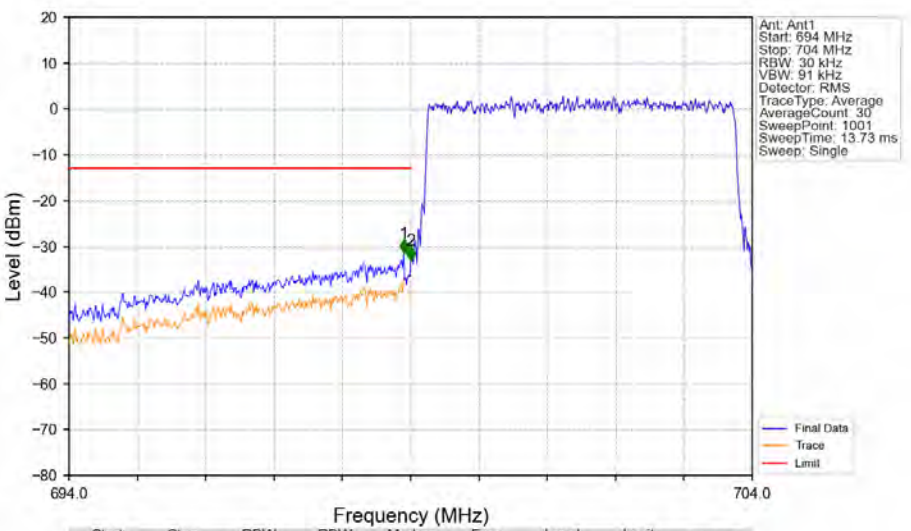


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	5.23	1	698.890	-23.99	-13	Pass
698.9	699	0.03	0	2	698.990	-21.92	-13	Pass
699	704	0.03	0	/	/	/	/	/

Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV

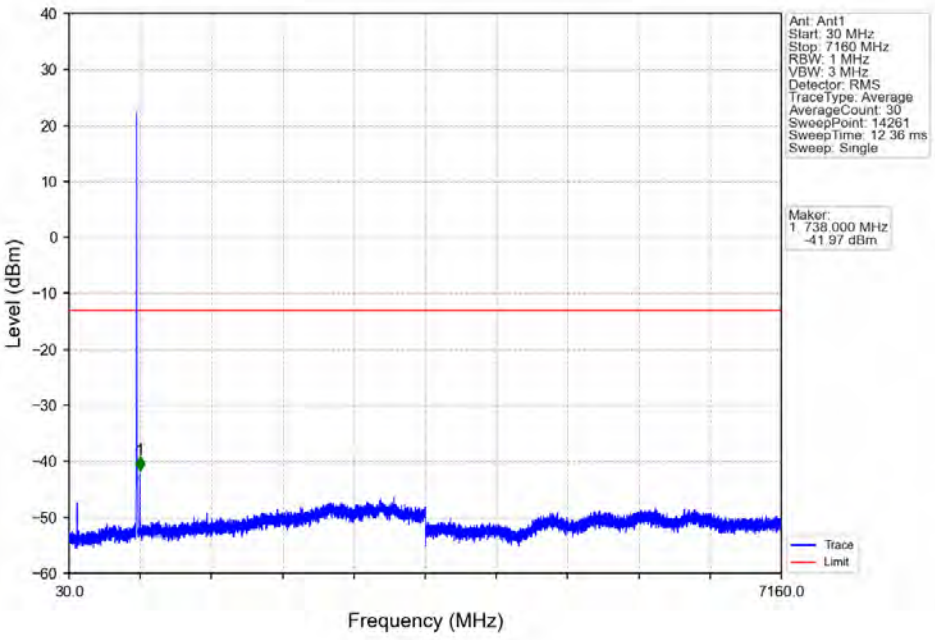


Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV

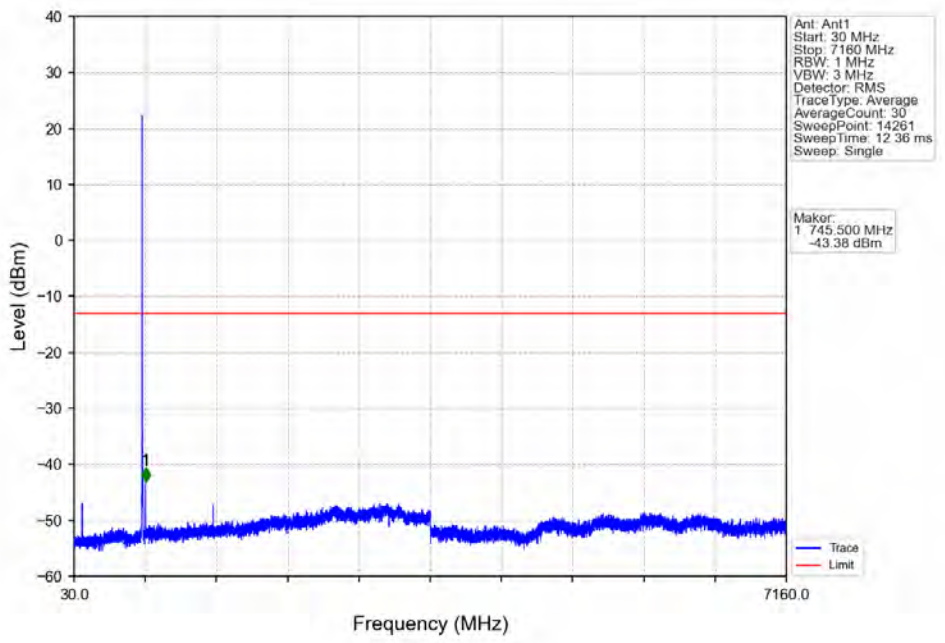


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	5.23	1	698.900	-31.53	-13	Pass
698.9	699	0.03	0	2	699.000	-33.08	-13	Pass
699	704	0.03	0	/	/	/	/	/

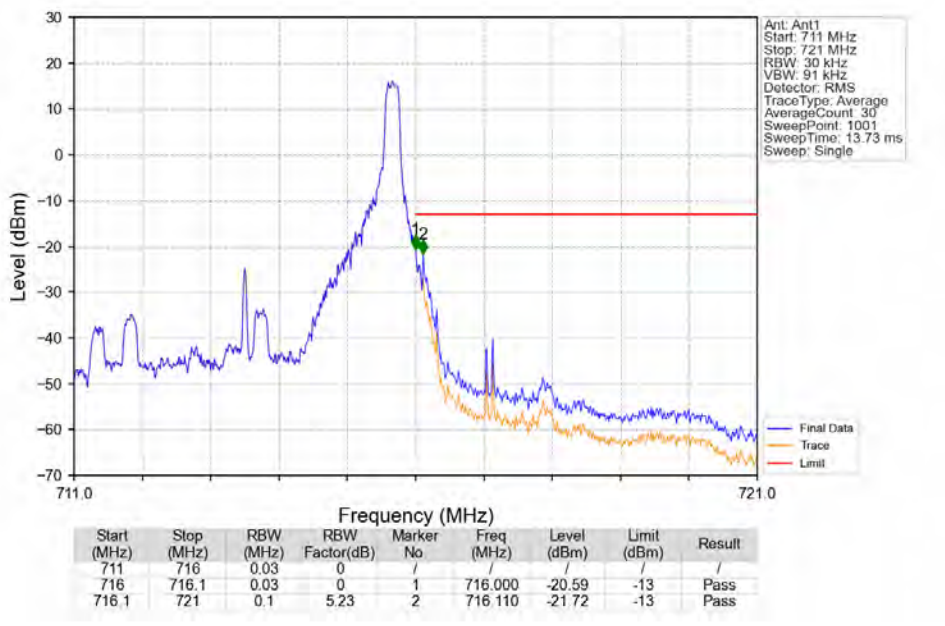
Band12_5MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV

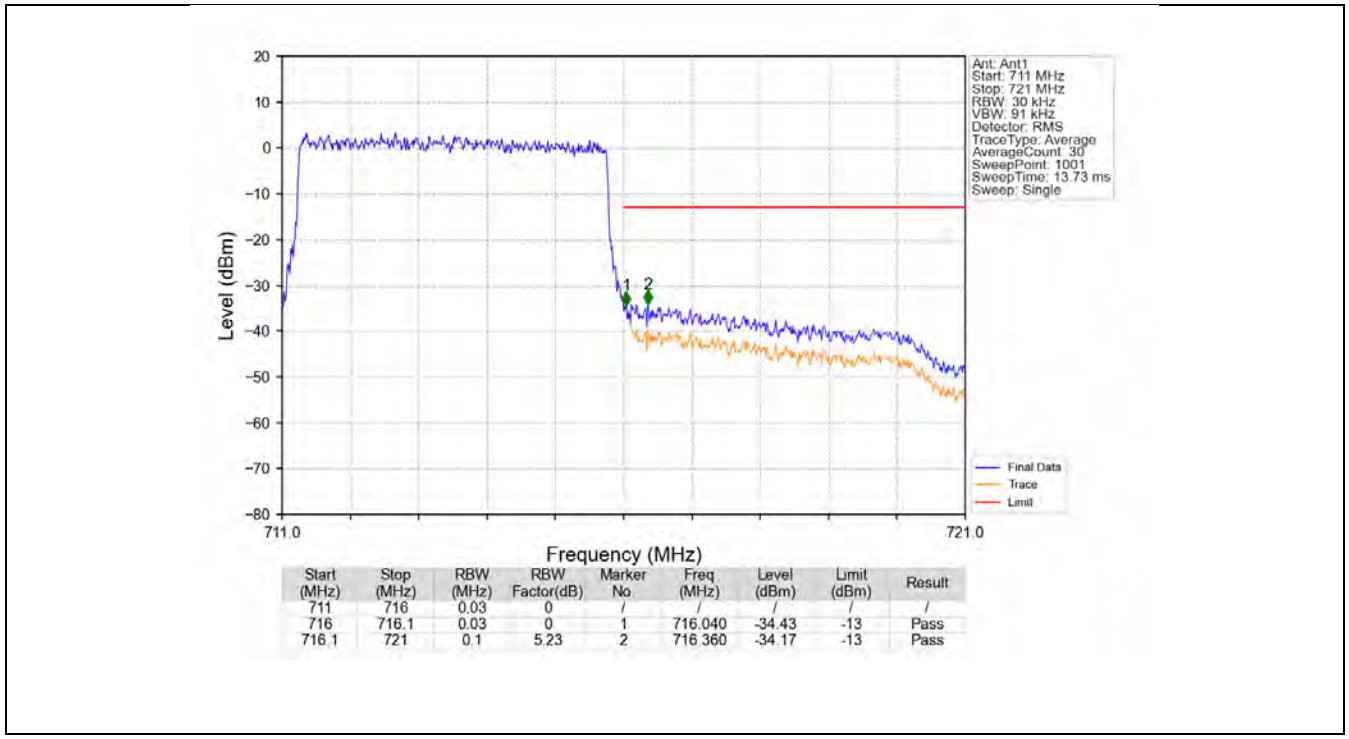


Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.000	-20.59	-13	Pass
716.1	721	0.1	5.23	2	716.110	-21.72	-13	Pass

Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



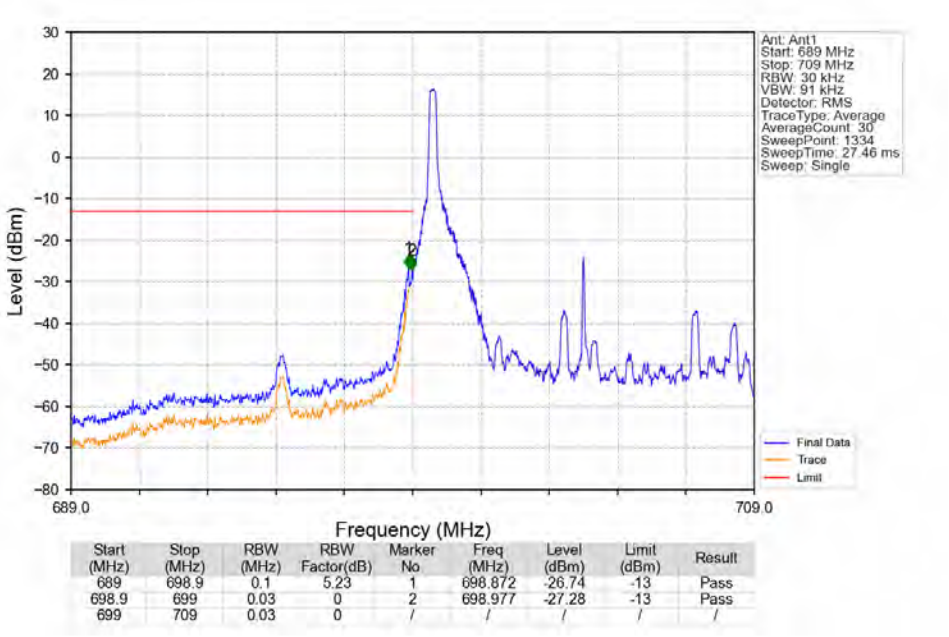
6.4 B12_10MHz

6.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTNV						
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

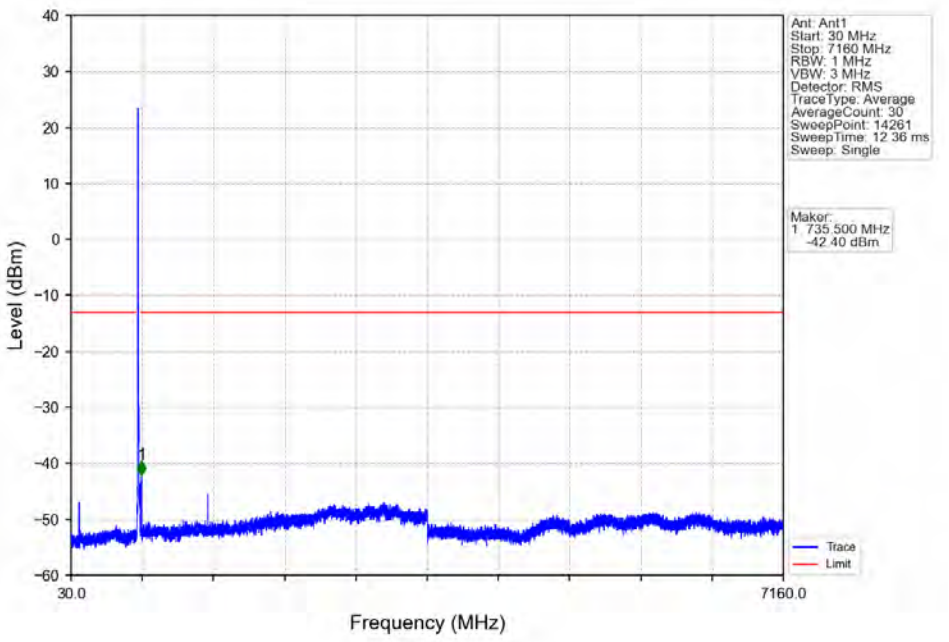
6.4.2 Test Graph

Band12_10MHz_QPSK_LCH_704MHz_RB_1_0_NTNV

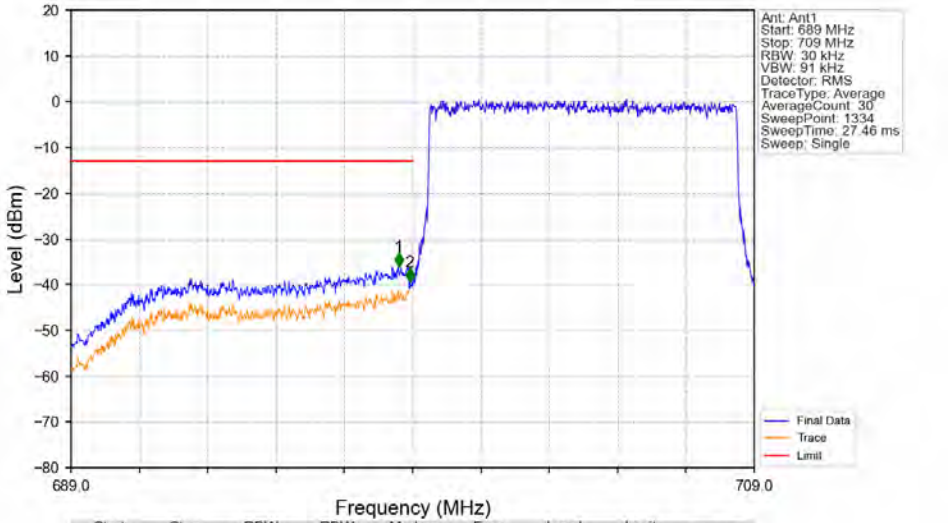


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	5.23	1	698.872	-26.74	-13	Pass
698.9	699	0.03	0	2	698.977	-27.28	-13	Pass
699	709	0.03	0	/	/	/	/	/

Band12_10MHz_QPSK_LCH_704MHz_RB_1_0_NTNV

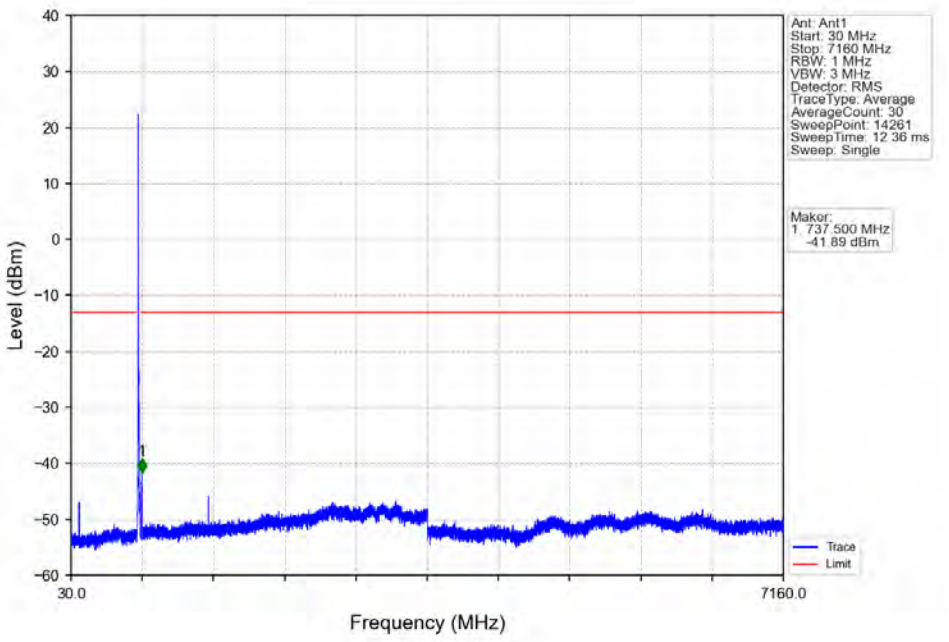


Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV

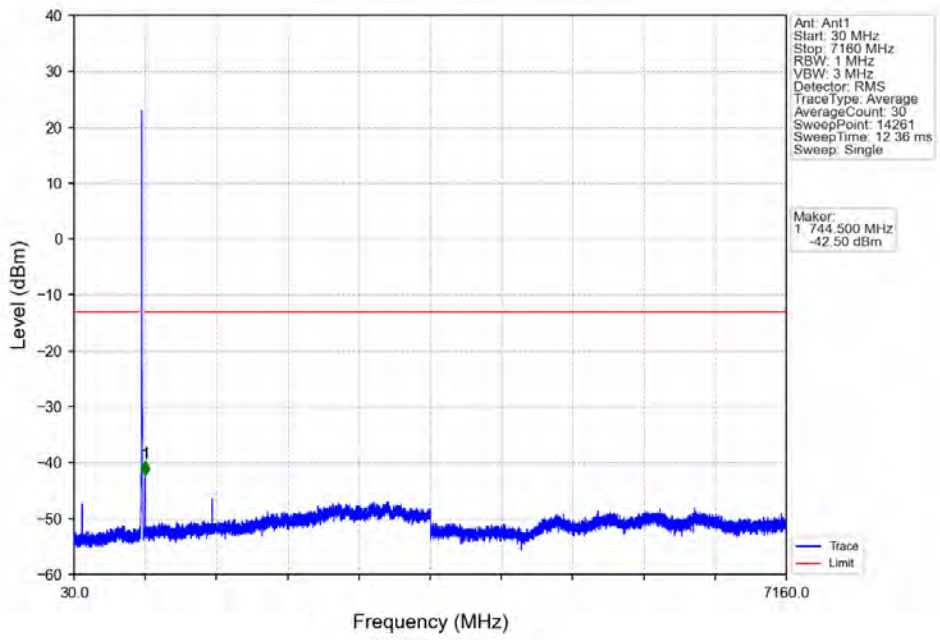


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	5.23	1	698.587	-36.06	-13	Pass
698.9	699	0.03	0	2	698.917	-39.45	-13	Pass
699	709	0.03	0	/	/	/	/	/

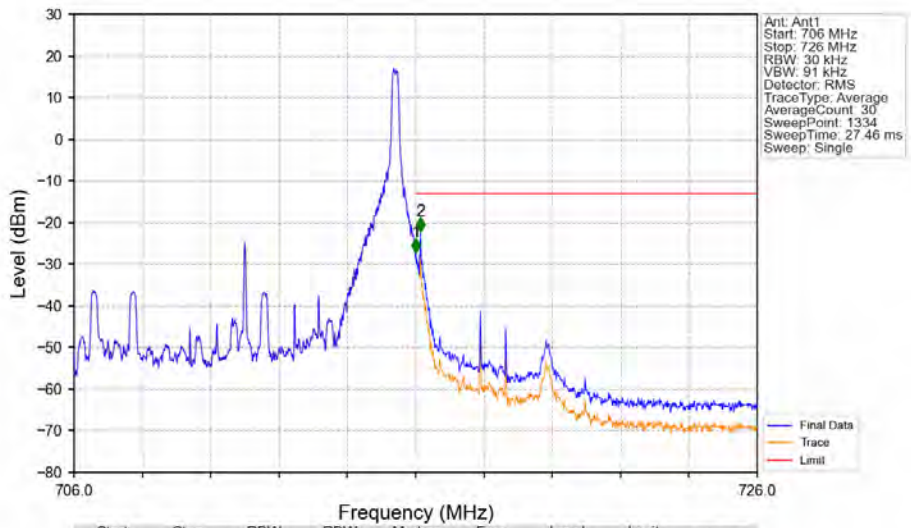
Band12_10MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

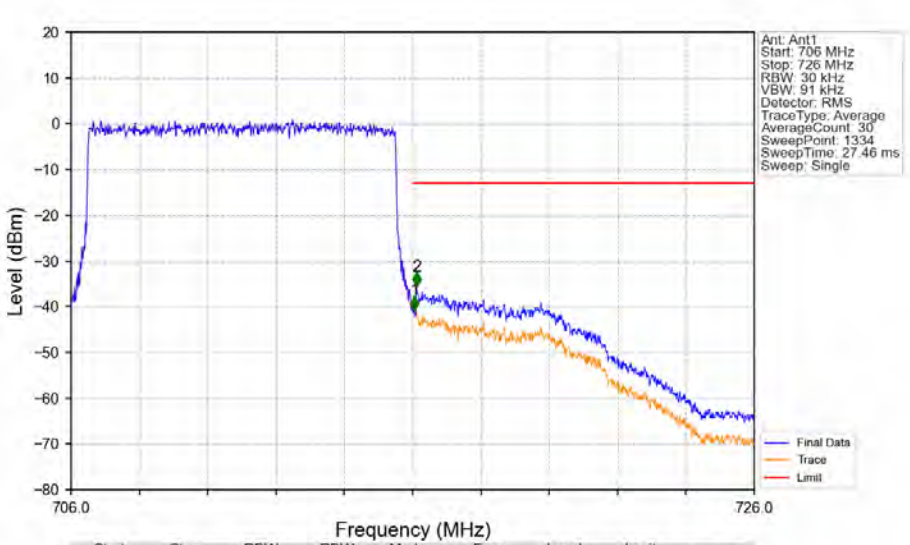


Band12_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



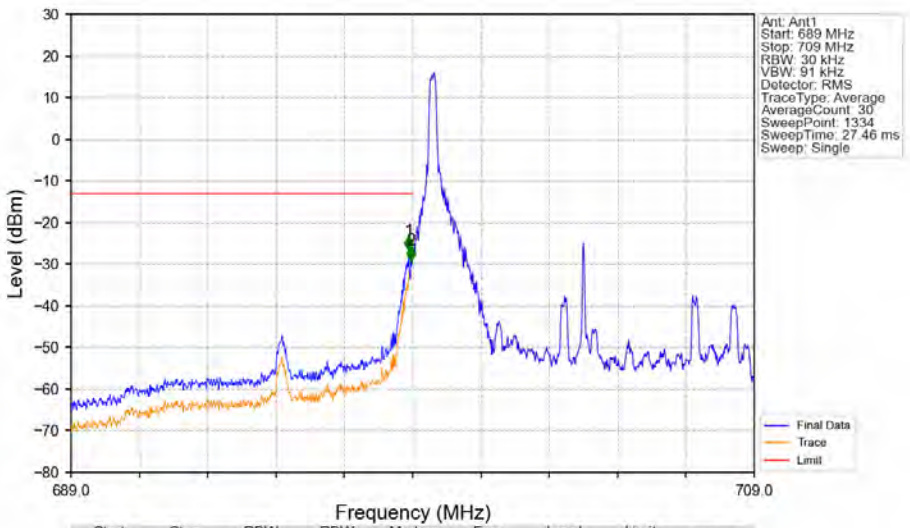
Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.008	-27.15	-13	Pass
716.1	726	0.1	5.23	2	716.143	-22.12	-13	Pass

Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



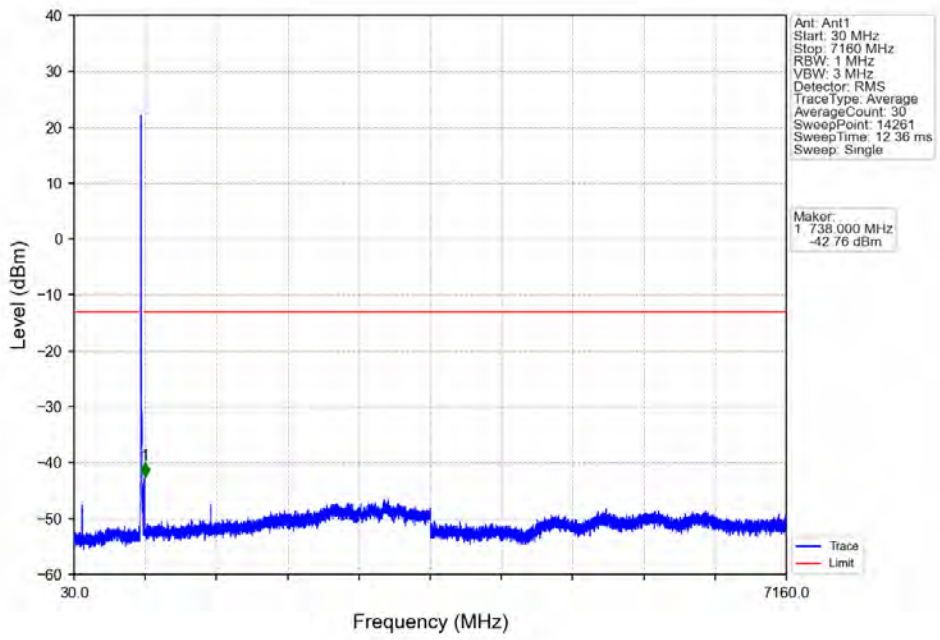
Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.053	-40.76	-13	Pass
716.1	726	0.1	5.23	2	716.113	-35.63	-13	Pass

Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV

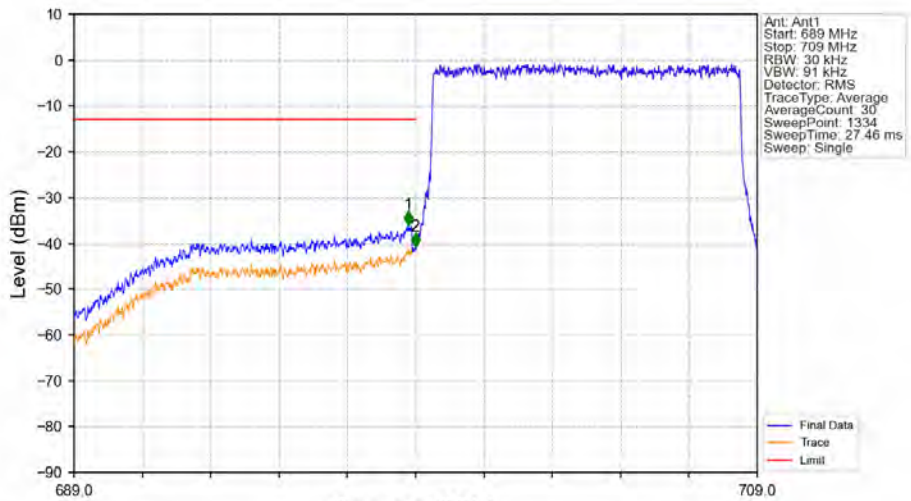


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	5.23	1	698.887	-26.61	-13	Pass
698.9	699	0.03	0	2	698.947	-29.09	-13	Pass
699	709	0.03	0	/	/	/	/	/

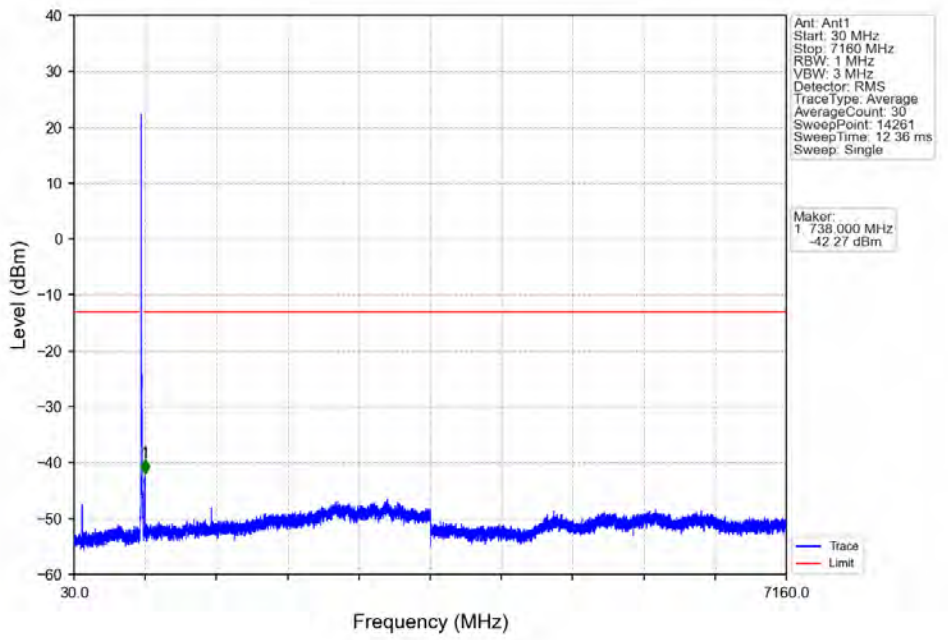
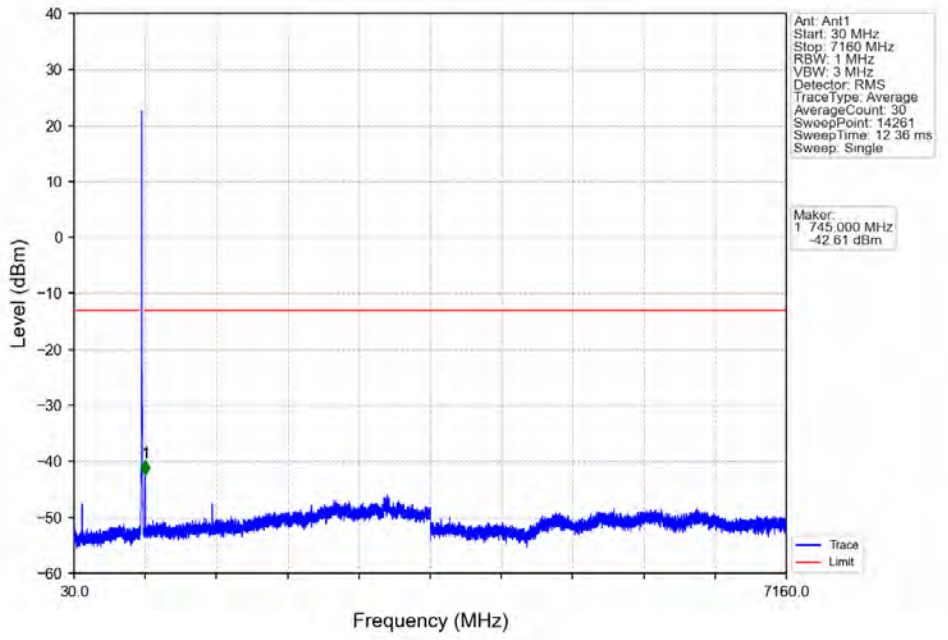
Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV



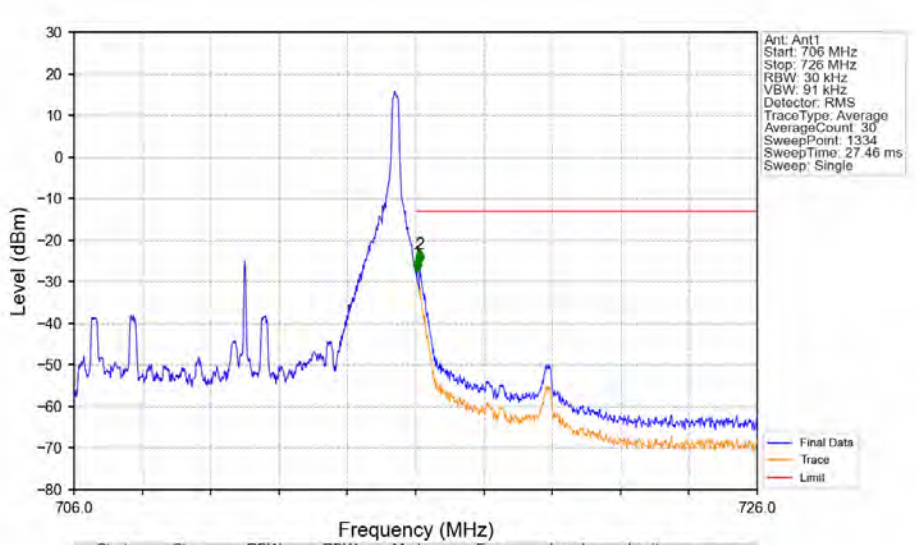
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	5.23	1	698.782	-35.96	-13	Pass
698.9	699	0.03	0	2	698.992	-40.71	-13	Pass
699	709	0.03	0	/	/	/	/	/

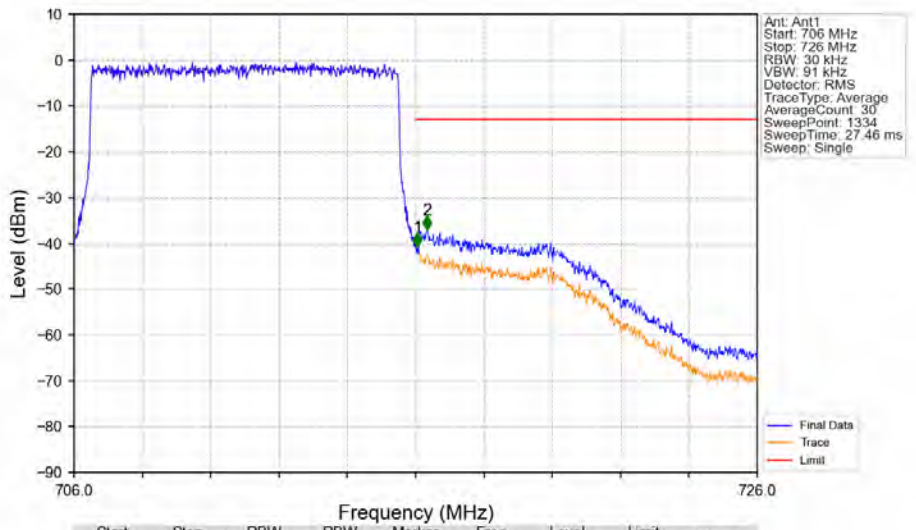
Band12_10MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV

Band12_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV


Band12_10MHz_16QAM_HCH_711MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.038	-27.68	-13	Pass
716.1	726	0.1	5.23	2	716.128	-25.73	-13	Pass

Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.053	-40.76	-13	Pass
716.1	726	0.1	5.23	2	716.338	-37.14	-13	Pass

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	0.1306	0.0074	ppm	1M11G7D	27H	21.16
12	1.4	699.7	715.3	0.1274	0.0083	ppm	1M12W7D	27H	21.05
12	3	700.5	714.5	0.1312	0.0056	ppm	2M75G7D	27H	21.18
12	3	700.5	714.5	0.1069	0.0045	ppm	2M73W7D	27H	20.29
12	5	701.5	713.5	0.1211	0.0063	ppm	4M55G7D	27H	20.83
12	5	701.5	713.5	0.0867	0.0074	ppm	4M57W7D	27H	19.38
12	10	704	711	0.1538	0.0049	ppm	9M08G7D	27H	21.87
12	10	704	711	0.0959	0.0056	ppm	9M08W7D	27H	19.82

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	0.0877	0.0074	ppm	1M11G7D	27H	19.43
12	1.4	699.7	715.3	0.0855	0.0083	ppm	1M12W7D	27H	19.32
12	3	700.5	714.5	0.0881	0.0056	ppm	2M75G7D	27H	19.45
12	3	700.5	714.5	0.0717	0.0045	ppm	2M73W7D	27H	18.56
12	5	701.5	713.5	0.0812	0.0063	ppm	4M55G7D	27H	19.1
12	5	701.5	713.5	0.0582	0.0074	ppm	4M57W7D	27H	17.65
12	10	704	711	0.1032	0.0049	ppm	9M08G7D	27H	20.14
12	10	704	711	0.0644	0.0056	ppm	9M08W7D	27H	18.09