

1. Effective (Isotropic) Radiated Power Output Data

1.1 B12_1.4MHz_ERP

1.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	699.7	1	0	21.82	0.41	20.08	<=34.77	Pass		
			2	21.93	0.41	20.19	<=34.77	Pass		
			5	21.31	0.41	19.57	<=34.77	Pass		
		3	0	21.34	0.41	19.60	<=34.77	Pass		
			2	21.38	0.41	19.64	<=34.77	Pass		
			3	21.36	0.41	19.62	<=34.77	Pass		
		6	0	20.34	0.41	18.60	<=34.77	Pass		
		707.5	1	0	21.43	0.41	19.69	<=34.77	Pass	
				2	21.52	0.41	19.78	<=34.77	Pass	
	5			21.44	0.41	19.70	<=34.77	Pass		
	3		0	21.48	0.41	19.74	<=34.77	Pass		
			2	21.51	0.41	19.77	<=34.77	Pass		
			3	21.46	0.41	19.72	<=34.77	Pass		
	6		0	20.51	0.41	18.77	<=34.77	Pass		
	715.3		1	0	21.48	0.41	19.74	<=34.77	Pass	
				2	21.64	0.41	19.90	<=34.77	Pass	
		5		21.54	0.41	19.80	<=34.77	Pass		
		3	0	21.52	0.41	19.78	<=34.77	Pass		
			2	21.56	0.41	19.82	<=34.77	Pass		
			3	21.53	0.41	19.79	<=34.77	Pass		
		6	0	20.60	0.41	18.86	<=34.77	Pass		
		16QAM	699.7	1	0	20.23	0.41	18.49	<=34.77	Pass
					2	20.35	0.41	18.61	<=34.77	Pass
	5				20.32	0.41	18.58	<=34.77	Pass	
3	0			20.39	0.41	18.65	<=34.77	Pass		
	2			20.40	0.41	18.66	<=34.77	Pass		
	3			20.39	0.41	18.65	<=34.77	Pass		
6	0			19.31	0.41	17.57	<=34.77	Pass		
707.5	1			0	20.53	0.41	18.79	<=34.77	Pass	
				2	20.62	0.41	18.88	<=34.77	Pass	
			5	20.53	0.41	18.79	<=34.77	Pass		
	3		0	20.44	0.41	18.70	<=34.77	Pass		
			2	20.43	0.41	18.69	<=34.77	Pass		
			3	20.46	0.41	18.72	<=34.77	Pass		
	6		0	19.53	0.41	17.79	<=34.77	Pass		
	715.3		1	0	20.36	0.41	18.62	<=34.77	Pass	
				2	20.48	0.41	18.74	<=34.77	Pass	
5				20.37	0.41	18.63	<=34.77	Pass		
3			0	20.68	0.41	18.94	<=34.77	Pass		
			2	20.66	0.41	18.92	<=34.77	Pass		
			3	20.63	0.41	18.89	<=34.77	Pass		
6			0	19.55	0.41	17.81	<=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	21.44	0.41	19.70	<=34.77	Pass		
			7	21.58	0.41	19.84	<=34.77	Pass		
			14	21.48	0.41	19.74	<=34.77	Pass		
		8	0	20.38	0.41	18.64	<=34.77	Pass		
			4	20.42	0.41	18.68	<=34.77	Pass		
			7	20.36	0.41	18.62	<=34.77	Pass		
		15	0	20.36	0.41	18.62	<=34.77	Pass		
		707.5	1	0	21.49	0.41	19.75	<=34.77	Pass	
				7	21.69	0.41	19.95	<=34.77	Pass	
	14			21.55	0.41	19.81	<=34.77	Pass		
	8		0	20.50	0.41	18.76	<=34.77	Pass		
			4	20.61	0.41	18.87	<=34.77	Pass		
			7	20.60	0.41	18.86	<=34.77	Pass		
	15		0	20.54	0.41	18.80	<=34.77	Pass		
	714.5		1	0	21.60	0.41	19.86	<=34.77	Pass	
				7	21.76	0.41	20.02	<=34.77	Pass	
		14		21.70	0.41	19.96	<=34.77	Pass		
		8	0	20.64	0.41	18.90	<=34.77	Pass		
			4	20.69	0.41	18.95	<=34.77	Pass		
			7	20.67	0.41	18.93	<=34.77	Pass		
		15	0	20.60	0.41	18.86	<=34.77	Pass		
		16QAM	700.5	1	0	20.39	0.41	18.65	<=34.77	Pass
					7	20.57	0.41	18.83	<=34.77	Pass
	14				20.49	0.41	18.75	<=34.77	Pass	
8	0			19.48	0.41	17.74	<=34.77	Pass		
	4			19.54	0.41	17.80	<=34.77	Pass		
	7			19.47	0.41	17.73	<=34.77	Pass		
15	0			19.45	0.41	17.71	<=34.77	Pass		
707.5	1			0	20.62	0.41	18.88	<=34.77	Pass	
				7	20.81	0.41	19.07	<=34.77	Pass	
			14	20.65	0.41	18.91	<=34.77	Pass		
	8		0	19.50	0.41	17.76	<=34.77	Pass		
			4	19.60	0.41	17.86	<=34.77	Pass		
			7	19.59	0.41	17.85	<=34.77	Pass		
	15		0	19.56	0.41	17.82	<=34.77	Pass		
	714.5		1	0	21.09	0.41	19.35	<=34.77	Pass	
				7	21.15	0.41	19.41	<=34.77	Pass	
14				20.96	0.41	19.22	<=34.77	Pass		
8			0	19.82	0.41	18.08	<=34.77	Pass		
			4	19.85	0.41	18.11	<=34.77	Pass		
			7	19.80	0.41	18.06	<=34.77	Pass		
15			0	19.70	0.41	17.96	<=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	21.22	0.41	19.48	<=34.77	Pass		
			13	21.38	0.41	19.64	<=34.77	Pass		
			24	21.38	0.41	19.64	<=34.77	Pass		
		12	0	20.33	0.41	18.59	<=34.77	Pass		
			6	20.37	0.41	18.63	<=34.77	Pass		
			13	20.11	0.41	18.37	<=34.77	Pass		
		25	0	20.26	0.41	18.52	<=34.77	Pass		
		707.5	1	0	21.30	0.41	19.56	<=34.77	Pass	
				13	21.49	0.41	19.75	<=34.77	Pass	
	24			21.38	0.41	19.64	<=34.77	Pass		
	12		0	20.33	0.41	18.59	<=34.77	Pass		
			6	20.43	0.41	18.69	<=34.77	Pass		
			13	20.60	0.41	18.86	<=34.77	Pass		
	25		0	20.51	0.41	18.77	<=34.77	Pass		
	713.5		1	0	21.41	0.41	19.67	<=34.77	Pass	
				13	21.54	0.41	19.80	<=34.77	Pass	
		24		21.52	0.41	19.78	<=34.77	Pass		
		12	0	20.77	0.41	19.03	<=34.77	Pass		
			6	20.58	0.41	18.84	<=34.77	Pass		
			13	20.43	0.41	18.69	<=34.77	Pass		
		25	0	20.63	0.41	18.89	<=34.77	Pass		
		16QAM	701.5	1	0	20.28	0.41	18.54	<=34.77	Pass
					13	20.49	0.41	18.75	<=34.77	Pass
	24				20.46	0.41	18.72	<=34.77	Pass	
12	0			19.37	0.41	17.63	<=34.77	Pass		
	6			19.45	0.41	17.71	<=34.77	Pass		
	13			19.17	0.41	17.43	<=34.77	Pass		
25	0			19.34	0.41	17.60	<=34.77	Pass		
707.5	1			0	20.53	0.41	18.79	<=34.77	Pass	
				13	20.68	0.41	18.94	<=34.77	Pass	
			24	20.59	0.41	18.85	<=34.77	Pass		
	12		0	19.42	0.41	17.68	<=34.77	Pass		
			6	19.56	0.41	17.82	<=34.77	Pass		
			13	19.69	0.41	17.95	<=34.77	Pass		
	25		0	19.52	0.41	17.78	<=34.77	Pass		
	713.5		1	0	20.22	0.41	18.48	<=34.77	Pass	
				13	20.36	0.41	18.62	<=34.77	Pass	
24				20.28	0.41	18.54	<=34.77	Pass		
12			0	19.81	0.41	18.07	<=34.77	Pass		
			6	19.64	0.41	17.90	<=34.77	Pass		
			13	19.43	0.41	17.69	<=34.77	Pass		
25			0	19.70	0.41	17.96	<=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	21.26	0.41	19.52	<=34.77	Pass
			25	21.64	0.41	19.90	<=34.77	Pass

		25	49	21.53	0.41	19.79	<=34.77	Pass		
			0	20.72	0.41	18.98	<=34.77	Pass		
			13	20.50	0.41	18.76	<=34.77	Pass		
			25	20.61	0.41	18.87	<=34.77	Pass		
		50	0	20.70	0.41	18.96	<=34.77	Pass		
		707.5	1	0	21.30	0.41	19.56	<=34.77	Pass	
				25	21.70	0.41	19.96	<=34.77	Pass	
				49	21.53	0.41	19.79	<=34.77	Pass	
			25	0	20.56	0.41	18.82	<=34.77	Pass	
	13			20.57	0.41	18.83	<=34.77	Pass		
	25			20.71	0.41	18.97	<=34.77	Pass		
	50		0	20.62	0.41	18.88	<=34.77	Pass		
	711		1	0	21.47	0.41	19.73	<=34.77	Pass	
				25	21.73	0.41	19.99	<=34.77	Pass	
		49		21.67	0.41	19.93	<=34.77	Pass		
		25	0	20.31	0.41	18.57	<=34.77	Pass		
			13	20.58	0.41	18.84	<=34.77	Pass		
			25	20.28	0.41	18.54	<=34.77	Pass		
		50	0	20.32	0.41	18.58	<=34.77	Pass		
		16QAM	704	1	0	20.26	0.41	18.52	<=34.77	Pass
					25	20.64	0.41	18.90	<=34.77	Pass
	49				20.47	0.41	18.73	<=34.77	Pass	
	25			0	19.91	0.41	18.17	<=34.77	Pass	
				13	19.66	0.41	17.92	<=34.77	Pass	
				25	19.74	0.41	18.00	<=34.77	Pass	
	50			0	19.83	0.41	18.09	<=34.77	Pass	
	707.5			1	0	20.43	0.41	18.69	<=34.77	Pass
25					20.84	0.41	19.10	<=34.77	Pass	
49			20.66		0.41	18.92	<=34.77	Pass		
25			0	19.61	0.41	17.87	<=34.77	Pass		
			13	19.65	0.41	17.91	<=34.77	Pass		
			25	19.76	0.41	18.02	<=34.77	Pass		
50			0	19.68	0.41	17.94	<=34.77	Pass		
711			1	0	20.90	0.41	19.16	<=34.77	Pass	
				25	21.25	0.41	19.51	<=34.77	Pass	
	49			21.01	0.41	19.27	<=34.77	Pass		
	25		0	19.40	0.41	17.66	<=34.77	Pass		
			13	19.71	0.41	17.97	<=34.77	Pass		
			25	19.35	0.41	17.61	<=34.77	Pass		
	50		0	19.34	0.41	17.60	<=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	0.143	0.0002	-2.5 to 2.5	Pass	
						3.85	2.532	0.0036	-2.5 to 2.5	Pass
						4.43	-4.249	-0.0061	-2.5 to 2.5	Pass

				-30	3.85	-6.080	-0.0087	-2.5 to 2.5	Pass			
				-20	3.85	-4.263	-0.0061	-2.5 to 2.5	Pass			
				-10	3.85	-5.021	-0.0072	-2.5 to 2.5	Pass			
				0	3.85	-7.010	-0.0100	-2.5 to 2.5	Pass			
				10	3.85	-10.400	-0.0149	-2.5 to 2.5	Pass			
				30	3.85	-8.998	-0.0129	-2.5 to 2.5	Pass			
				40	3.85	-8.326	-0.0119	-2.5 to 2.5	Pass			
	50	3.85	-8.140	-0.0116	-2.5 to 2.5	Pass						
	707.5	6	0	20	3.27	-8.998	-0.0127	-2.5 to 2.5	Pass			
					3.85	-4.306	-0.0061	-2.5 to 2.5	Pass			
					4.43	-3.476	-0.0049	-2.5 to 2.5	Pass			
				-30	3.85	-3.176	-0.0045	-2.5 to 2.5	Pass			
				-20	3.85	-2.789	-0.0039	-2.5 to 2.5	Pass			
				-10	3.85	-4.907	-0.0069	-2.5 to 2.5	Pass			
				0	3.85	-5.364	-0.0076	-2.5 to 2.5	Pass			
				10	3.85	-1.874	-0.0026	-2.5 to 2.5	Pass			
				30	3.85	-5.136	-0.0073	-2.5 to 2.5	Pass			
				40	3.85	-3.877	-0.0055	-2.5 to 2.5	Pass			
				50	3.85	-2.103	-0.0030	-2.5 to 2.5	Pass			
				715.3	6	0	20	3.27	-5.507	-0.0077	-2.5 to 2.5	Pass
								3.85	-12.875	-0.0180	-2.5 to 2.5	Pass
								4.43	-5.622	-0.0079	-2.5 to 2.5	Pass
	-30	3.85	-5.794				-0.0081	-2.5 to 2.5	Pass			
	-20	3.85	-3.176				-0.0044	-2.5 to 2.5	Pass			
	-10	3.85	-8.326				-0.0116	-2.5 to 2.5	Pass			
	0	3.85	-17.910				-0.0250	-2.5 to 2.5	Pass			
	10	3.85	-2.503				-0.0035	-2.5 to 2.5	Pass			
30	3.85	-5.708	-0.0080				-2.5 to 2.5	Pass				
40	3.85	-7.682	-0.0107				-2.5 to 2.5	Pass				
50	3.85	-3.719	-0.0052				-2.5 to 2.5	Pass				
16QAM	699.7	6	0	20	3.27	-6.566	-0.0094	-2.5 to 2.5	Pass			
					3.85	-6.151	-0.0088	-2.5 to 2.5	Pass			
					4.43	-4.106	-0.0059	-2.5 to 2.5	Pass			
				-30	3.85	-10.529	-0.0150	-2.5 to 2.5	Pass			
				-20	3.85	-2.761	-0.0039	-2.5 to 2.5	Pass			
				-10	3.85	-6.781	-0.0097	-2.5 to 2.5	Pass			
				0	3.85	-7.796	-0.0111	-2.5 to 2.5	Pass			
				10	3.85	-8.526	-0.0122	-2.5 to 2.5	Pass			
				30	3.85	-6.180	-0.0088	-2.5 to 2.5	Pass			
				40	3.85	-9.184	-0.0131	-2.5 to 2.5	Pass			
				50	3.85	-5.136	-0.0073	-2.5 to 2.5	Pass			
				707.5	6	0	20	3.27	-5.121	-0.0072	-2.5 to 2.5	Pass
								3.85	-3.333	-0.0047	-2.5 to 2.5	Pass
								4.43	-6.394	-0.0090	-2.5 to 2.5	Pass
	-30	3.85	-4.992				-0.0071	-2.5 to 2.5	Pass			
	-20	3.85	-7.668				-0.0108	-2.5 to 2.5	Pass			
	-10	3.85	-7.110				-0.0100	-2.5 to 2.5	Pass			
	0	3.85	-4.878				-0.0069	-2.5 to 2.5	Pass			
	10	3.85	-4.678				-0.0066	-2.5 to 2.5	Pass			
	30	3.85	0.157				0.0002	-2.5 to 2.5	Pass			
	40	3.85	-3.018				-0.0043	-2.5 to 2.5	Pass			
	50	3.85	-2.031				-0.0029	-2.5 to 2.5	Pass			
	715.3	6	0	20	3.27	-1.531	-0.0021	-2.5 to 2.5	Pass			
					3.85	-7.424	-0.0104	-2.5 to 2.5	Pass			
					4.43	-6.051	-0.0085	-2.5 to 2.5	Pass			
				-30	3.85	-5.164	-0.0072	-2.5 to 2.5	Pass			
				-20	3.85	-7.782	-0.0109	-2.5 to 2.5	Pass			

				-10	3.85	-8.912	-0.0125	-2.5 to 2.5	Pass
				0	3.85	-4.735	-0.0066	-2.5 to 2.5	Pass
				10	3.85	-2.160	-0.0030	-2.5 to 2.5	Pass
				30	3.85	-10.214	-0.0143	-2.5 to 2.5	Pass
				40	3.85	-5.293	-0.0074	-2.5 to 2.5	Pass
				50	3.85	-6.452	-0.0090	-2.5 to 2.5	Pass

2.2 B12_3MHz

2.2.1 Test Result

Band: 12 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	700.5	15	0	20	3.27	-11.001	-0.0157	-2.5 to 2.5	Pass
					3.85	-4.878	-0.0070	-2.5 to 2.5	Pass
					4.43	-3.977	-0.0057	-2.5 to 2.5	Pass
				-30	3.85	-2.604	-0.0037	-2.5 to 2.5	Pass
				-20	3.85	-2.990	-0.0043	-2.5 to 2.5	Pass
				-10	3.85	-6.537	-0.0093	-2.5 to 2.5	Pass
				0	3.85	-1.745	-0.0025	-2.5 to 2.5	Pass
				10	3.85	-5.322	-0.0076	-2.5 to 2.5	Pass
				30	3.85	-3.476	-0.0050	-2.5 to 2.5	Pass
				40	3.85	-8.197	-0.0117	-2.5 to 2.5	Pass
	50	3.85	-6.609	-0.0094	-2.5 to 2.5	Pass			
	707.5	15	0	20	3.27	-10.657	-0.0151	-2.5 to 2.5	Pass
					3.85	-7.839	-0.0111	-2.5 to 2.5	Pass
					4.43	-5.221	-0.0074	-2.5 to 2.5	Pass
				-30	3.85	-6.380	-0.0090	-2.5 to 2.5	Pass
				-20	3.85	-5.121	-0.0072	-2.5 to 2.5	Pass
				-10	3.85	-6.380	-0.0090	-2.5 to 2.5	Pass
				0	3.85	-7.911	-0.0112	-2.5 to 2.5	Pass
				10	3.85	-4.878	-0.0069	-2.5 to 2.5	Pass
				30	3.85	-8.111	-0.0115	-2.5 to 2.5	Pass
				40	3.85	-8.783	-0.0124	-2.5 to 2.5	Pass
	50	3.85	-8.569	-0.0121	-2.5 to 2.5	Pass			
	714.5	15	0	20	3.27	-8.612	-0.0121	-2.5 to 2.5	Pass
					3.85	-7.067	-0.0099	-2.5 to 2.5	Pass
					4.43	-6.166	-0.0086	-2.5 to 2.5	Pass
				-30	3.85	-11.215	-0.0157	-2.5 to 2.5	Pass
				-20	3.85	-8.383	-0.0117	-2.5 to 2.5	Pass
				-10	3.85	-11.244	-0.0157	-2.5 to 2.5	Pass
				0	3.85	-11.044	-0.0155	-2.5 to 2.5	Pass
				10	3.85	-22.302	-0.0312	-2.5 to 2.5	Pass
30				3.85	-11.859	-0.0166	-2.5 to 2.5	Pass	
40				3.85	-9.813	-0.0137	-2.5 to 2.5	Pass	
50	3.85	-11.730	-0.0164	-2.5 to 2.5	Pass				
16QAM	700.5	15	0	20	3.27	-8.569	-0.0122	-2.5 to 2.5	Pass
					3.85	-9.899	-0.0141	-2.5 to 2.5	Pass
					4.43	-2.546	-0.0036	-2.5 to 2.5	Pass
				-30	3.85	-3.748	-0.0054	-2.5 to 2.5	Pass
				-20	3.85	-8.011	-0.0114	-2.5 to 2.5	Pass
				-10	3.85	-8.111	-0.0116	-2.5 to 2.5	Pass
				0	3.85	-9.084	-0.0130	-2.5 to 2.5	Pass
10	3.85	-1.674	-0.0024	-2.5 to 2.5	Pass				

	707.5	15	0	30	3.85	-5.050	-0.0072	-2.5 to 2.5	Pass
				40	3.85	-8.512	-0.0122	-2.5 to 2.5	Pass
				50	3.85	-7.524	-0.0107	-2.5 to 2.5	Pass
				20	3.27	-6.609	-0.0093	-2.5 to 2.5	Pass
					3.85	-9.198	-0.0130	-2.5 to 2.5	Pass
					4.43	-3.848	-0.0054	-2.5 to 2.5	Pass
				-30	3.85	-3.576	-0.0051	-2.5 to 2.5	Pass
				-20	3.85	-9.384	-0.0133	-2.5 to 2.5	Pass
				-10	3.85	-5.379	-0.0076	-2.5 to 2.5	Pass
				0	3.85	-5.794	-0.0082	-2.5 to 2.5	Pass
				10	3.85	-9.241	-0.0131	-2.5 to 2.5	Pass
				30	3.85	-7.467	-0.0106	-2.5 to 2.5	Pass
	40	3.85	-11.287	-0.0160	-2.5 to 2.5	Pass			
	50	3.85	-7.668	-0.0108	-2.5 to 2.5	Pass			
	714.5	15	0	20	3.27	-10.185	-0.0143	-2.5 to 2.5	Pass
					3.85	13.132	0.0184	-2.5 to 2.5	Pass
					4.43	-8.254	-0.0116	-2.5 to 2.5	Pass
				-30	3.85	-9.942	-0.0139	-2.5 to 2.5	Pass
				-20	3.85	-7.310	-0.0102	-2.5 to 2.5	Pass
				-10	3.85	-7.868	-0.0110	-2.5 to 2.5	Pass
				0	3.85	3.619	0.0051	-2.5 to 2.5	Pass
				10	3.85	-11.673	-0.0163	-2.5 to 2.5	Pass
				30	3.85	-6.995	-0.0098	-2.5 to 2.5	Pass
				40	3.85	-11.172	-0.0156	-2.5 to 2.5	Pass
50				3.85	-9.742	-0.0136	-2.5 to 2.5	Pass	

2.3 B12_5MHz

2.3.1 Test Result

Band: 12 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	701.5	25	0	20	3.27	-4.663	-0.0066	-2.5 to 2.5	Pass
					3.85	-7.682	-0.0110	-2.5 to 2.5	Pass
					4.43	-7.482	-0.0107	-2.5 to 2.5	Pass
				-30	3.85	-6.051	-0.0086	-2.5 to 2.5	Pass
				-20	3.85	-5.250	-0.0075	-2.5 to 2.5	Pass
				-10	3.85	-8.068	-0.0115	-2.5 to 2.5	Pass
				0	3.85	-8.526	-0.0122	-2.5 to 2.5	Pass
				10	3.85	-7.610	-0.0108	-2.5 to 2.5	Pass
				30	3.85	-4.721	-0.0067	-2.5 to 2.5	Pass
				40	3.85	-3.934	-0.0056	-2.5 to 2.5	Pass
				50	3.85	-6.180	-0.0088	-2.5 to 2.5	Pass
				707.5	25	0	20	3.27	-10.099
	3.85	-3.576	-0.0051					-2.5 to 2.5	Pass
	4.43	-8.869	-0.0125					-2.5 to 2.5	Pass
	-30	3.85	-7.396				-0.0105	-2.5 to 2.5	Pass
	-20	3.85	-4.191				-0.0059	-2.5 to 2.5	Pass
	-10	3.85	-8.383				-0.0118	-2.5 to 2.5	Pass
	0	3.85	-7.954				-0.0112	-2.5 to 2.5	Pass
	10	3.85	-8.154				-0.0115	-2.5 to 2.5	Pass
	30	3.85	-7.796				-0.0110	-2.5 to 2.5	Pass
	40	3.85	-3.891				-0.0055	-2.5 to 2.5	Pass
	50	3.85	-2.246				-0.0032	-2.5 to 2.5	Pass

	713.5	25	0	20	3.27	-7.052	-0.0099	-2.5 to 2.5	Pass					
					3.85	-3.047	-0.0043	-2.5 to 2.5	Pass					
					4.43	-4.692	-0.0066	-2.5 to 2.5	Pass					
					713.5	25	0	-30	3.85	-11.587	-0.0162	-2.5 to 2.5	Pass	
									-20	3.85	-7.839	-0.0110	-2.5 to 2.5	Pass
										-10	3.85	-9.699	-0.0136	-2.5 to 2.5
								0	3.85	-5.894	-0.0083	-2.5 to 2.5	Pass	
									10	3.85	-9.670	-0.0136	-2.5 to 2.5	Pass
									30	3.85	-6.638	-0.0093	-2.5 to 2.5	Pass
40	3.85	-5.994	-0.0084						-2.5 to 2.5	Pass				
50	3.85	-5.150	-0.0072						-2.5 to 2.5	Pass				
	701.5	25	0						20	3.27	-7.539	-0.0107	-2.5 to 2.5	Pass
				3.85	-2.103	-0.0030	-2.5 to 2.5	Pass						
				4.43	-5.207	-0.0074	-2.5 to 2.5	Pass						
					701.5	25	0	-30	3.85	-3.133	-0.0045	-2.5 to 2.5	Pass	
									-20	3.85	-4.134	-0.0059	-2.5 to 2.5	Pass
										-10	3.85	-1.917	-0.0027	-2.5 to 2.5
								0	3.85	-4.878	-0.0070	-2.5 to 2.5	Pass	
									10	3.85	-4.463	-0.0064	-2.5 to 2.5	Pass
									30	3.85	-8.769	-0.0125	-2.5 to 2.5	Pass
40	3.85	-7.067	-0.0101						-2.5 to 2.5	Pass				
50	3.85	-7.839	-0.0112						-2.5 to 2.5	Pass				
16QAM	707.5	25	0						20	3.27	-6.623	-0.0094	-2.5 to 2.5	Pass
				3.85	-7.882	-0.0111	-2.5 to 2.5	Pass						
				4.43	-5.894	-0.0083	-2.5 to 2.5	Pass						
					707.5	25	0	-30	3.85	-7.081	-0.0100	-2.5 to 2.5	Pass	
									-20	3.85	-2.747	-0.0039	-2.5 to 2.5	Pass
										-10	3.85	-2.575	-0.0036	-2.5 to 2.5
								0	3.85	-5.937	-0.0084	-2.5 to 2.5	Pass	
									10	3.85	-10.300	-0.0146	-2.5 to 2.5	Pass
									30	3.85	-4.520	-0.0064	-2.5 to 2.5	Pass
40	3.85	-2.761	-0.0039						-2.5 to 2.5	Pass				
50	3.85	-1.559	-0.0022						-2.5 to 2.5	Pass				
	713.5	25	0						20	3.27	-4.377	-0.0061	-2.5 to 2.5	Pass
				3.85	1.616	0.0023	-2.5 to 2.5	Pass						
				4.43	-4.935	-0.0069	-2.5 to 2.5	Pass						
					713.5	25	0	-30	3.85	-8.125	-0.0114	-2.5 to 2.5	Pass	
									-20	3.85	-8.469	-0.0119	-2.5 to 2.5	Pass
										-10	3.85	-9.642	-0.0135	-2.5 to 2.5
								0	3.85	-7.410	-0.0104	-2.5 to 2.5	Pass	
									10	3.85	-3.490	-0.0049	-2.5 to 2.5	Pass
									30	3.85	-4.492	-0.0063	-2.5 to 2.5	Pass
40	3.85	-7.052	-0.0099						-2.5 to 2.5	Pass				
50	3.85	-7.567	-0.0106						-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	-5.078	-0.0072	-2.5 to 2.5	Pass
					3.85	-4.892	-0.0069	-2.5 to 2.5	Pass
					4.43	-5.121	-0.0073	-2.5 to 2.5	Pass

				-30	3.85	-4.234	-0.0060	-2.5 to 2.5	Pass			
				-20	3.85	-5.994	-0.0085	-2.5 to 2.5	Pass			
				-10	3.85	-5.364	-0.0076	-2.5 to 2.5	Pass			
				0	3.85	-7.396	-0.0105	-2.5 to 2.5	Pass			
				10	3.85	-7.782	-0.0111	-2.5 to 2.5	Pass			
				30	3.85	-5.751	-0.0082	-2.5 to 2.5	Pass			
				40	3.85	-8.268	-0.0117	-2.5 to 2.5	Pass			
	50	3.85	-6.452	-0.0092	-2.5 to 2.5	Pass						
	707.5	50	0	20	3.27	-7.281	-0.0103	-2.5 to 2.5	Pass			
					3.85	-0.887	-0.0013	-2.5 to 2.5	Pass			
					4.43	-6.380	-0.0090	-2.5 to 2.5	Pass			
				-30	3.85	-7.782	-0.0110	-2.5 to 2.5	Pass			
				-20	3.85	-5.808	-0.0082	-2.5 to 2.5	Pass			
				-10	3.85	-3.676	-0.0052	-2.5 to 2.5	Pass			
				0	3.85	-4.749	-0.0067	-2.5 to 2.5	Pass			
		10	3.85	-6.180	-0.0087	-2.5 to 2.5	Pass					
		30	3.85	-5.822	-0.0082	-2.5 to 2.5	Pass					
		40	3.85	-8.440	-0.0119	-2.5 to 2.5	Pass					
		50	3.85	-2.990	-0.0042	-2.5 to 2.5	Pass					
		711	50	0	20	3.27	-5.822	-0.0082	-2.5 to 2.5	Pass		
						3.85	-7.195	-0.0101	-2.5 to 2.5	Pass		
						4.43	-4.950	-0.0070	-2.5 to 2.5	Pass		
	-30				3.85	-1.087	-0.0015	-2.5 to 2.5	Pass			
	-20				3.85	-5.364	-0.0075	-2.5 to 2.5	Pass			
	-10				3.85	-0.286	-0.0004	-2.5 to 2.5	Pass			
	0				3.85	-3.376	-0.0047	-2.5 to 2.5	Pass			
	10	3.85	-2.775	-0.0039	-2.5 to 2.5	Pass						
30	3.85	-3.891	-0.0055	-2.5 to 2.5	Pass							
40	3.85	-7.553	-0.0106	-2.5 to 2.5	Pass							
50	3.85	-3.362	-0.0047	-2.5 to 2.5	Pass							
16QAM	704	50	0	20	3.27	-5.965	-0.0085	-2.5 to 2.5	Pass			
					3.85	-4.206	-0.0060	-2.5 to 2.5	Pass			
					4.43	-9.284	-0.0132	-2.5 to 2.5	Pass			
				-30	3.85	-7.825	-0.0111	-2.5 to 2.5	Pass			
				-20	3.85	-6.909	-0.0098	-2.5 to 2.5	Pass			
				-10	3.85	-4.292	-0.0061	-2.5 to 2.5	Pass			
				0	3.85	-6.537	-0.0093	-2.5 to 2.5	Pass			
				10	3.85	-5.121	-0.0073	-2.5 to 2.5	Pass			
				30	3.85	-2.775	-0.0039	-2.5 to 2.5	Pass			
				40	3.85	-2.832	-0.0040	-2.5 to 2.5	Pass			
				50	3.85	-6.995	-0.0099	-2.5 to 2.5	Pass			
				707.5	50	0	20	3.27	-6.938	-0.0098	-2.5 to 2.5	Pass
								3.85	-2.031	-0.0029	-2.5 to 2.5	Pass
								4.43	-6.237	-0.0088	-2.5 to 2.5	Pass
	-30	3.85	-10.514				-0.0149	-2.5 to 2.5	Pass			
	-20	3.85	-4.663				-0.0066	-2.5 to 2.5	Pass			
	-10	3.85	-8.869				-0.0125	-2.5 to 2.5	Pass			
	0	3.85	-3.347				-0.0047	-2.5 to 2.5	Pass			
	10	3.85	-2.675	-0.0038	-2.5 to 2.5	Pass						
	30	3.85	-4.621	-0.0065	-2.5 to 2.5	Pass						
	40	3.85	-6.108	-0.0086	-2.5 to 2.5	Pass						
	50	3.85	-3.948	-0.0056	-2.5 to 2.5	Pass						
	711	50	0	20	3.27	-6.695	-0.0094	-2.5 to 2.5	Pass			
					3.85	-4.964	-0.0070	-2.5 to 2.5	Pass			
					4.43	-7.782	-0.0109	-2.5 to 2.5	Pass			
				-30	3.85	-6.952	-0.0098	-2.5 to 2.5	Pass			
				-20	3.85	-5.851	-0.0082	-2.5 to 2.5	Pass			

				-10	3.85	-9.098	-0.0128	-2.5 to 2.5	Pass
				0	3.85	-5.665	-0.0080	-2.5 to 2.5	Pass
				10	3.85	-5.879	-0.0083	-2.5 to 2.5	Pass
				30	3.85	-6.380	-0.0090	-2.5 to 2.5	Pass
				40	3.85	-10.099	-0.0142	-2.5 to 2.5	Pass
				50	3.85	-3.276	-0.0046	-2.5 to 2.5	Pass

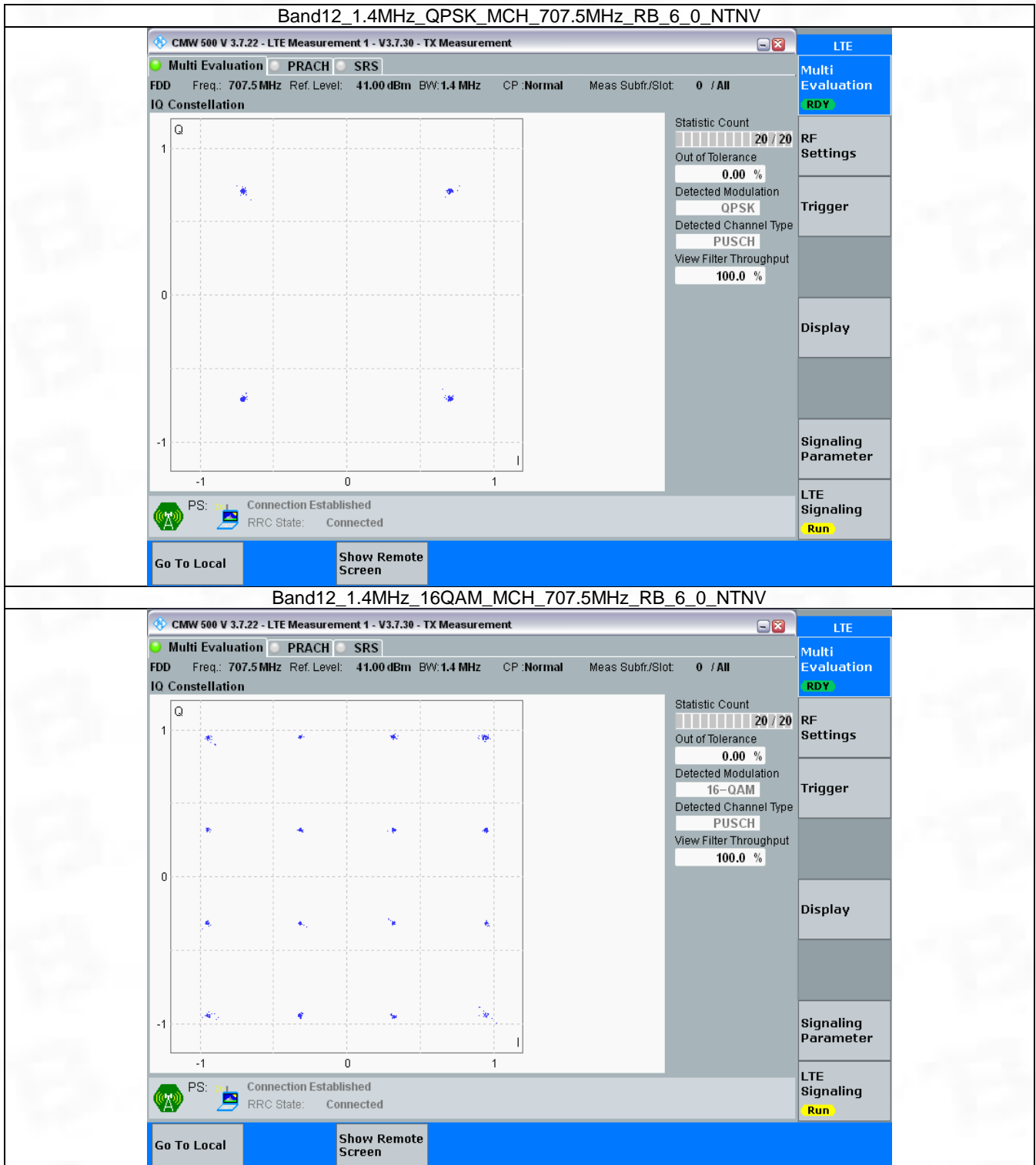
3. Modulation Characteristics

3.1 B12_1.4MHz

3.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTN						
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

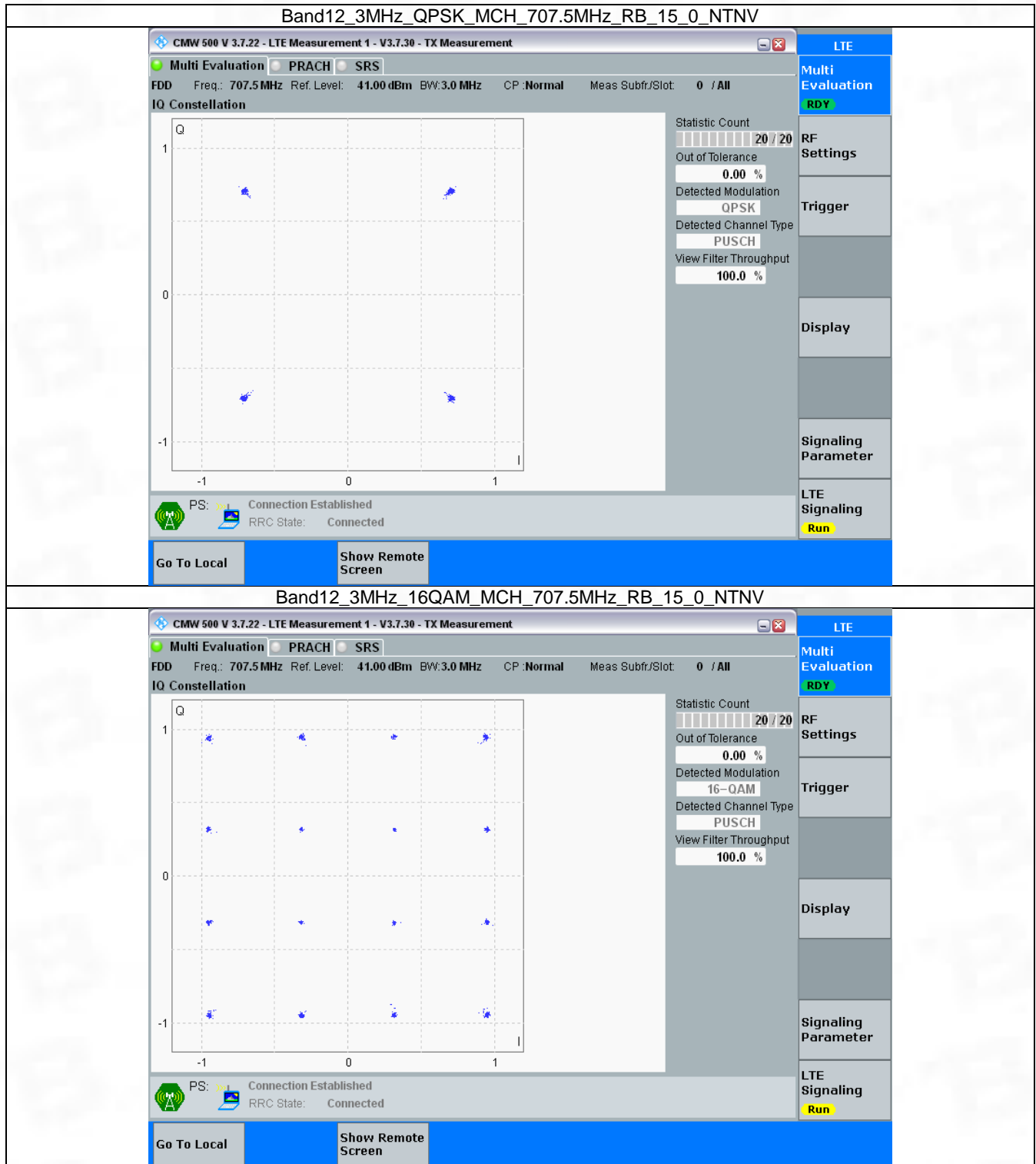


3.2 B12_3MHz

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

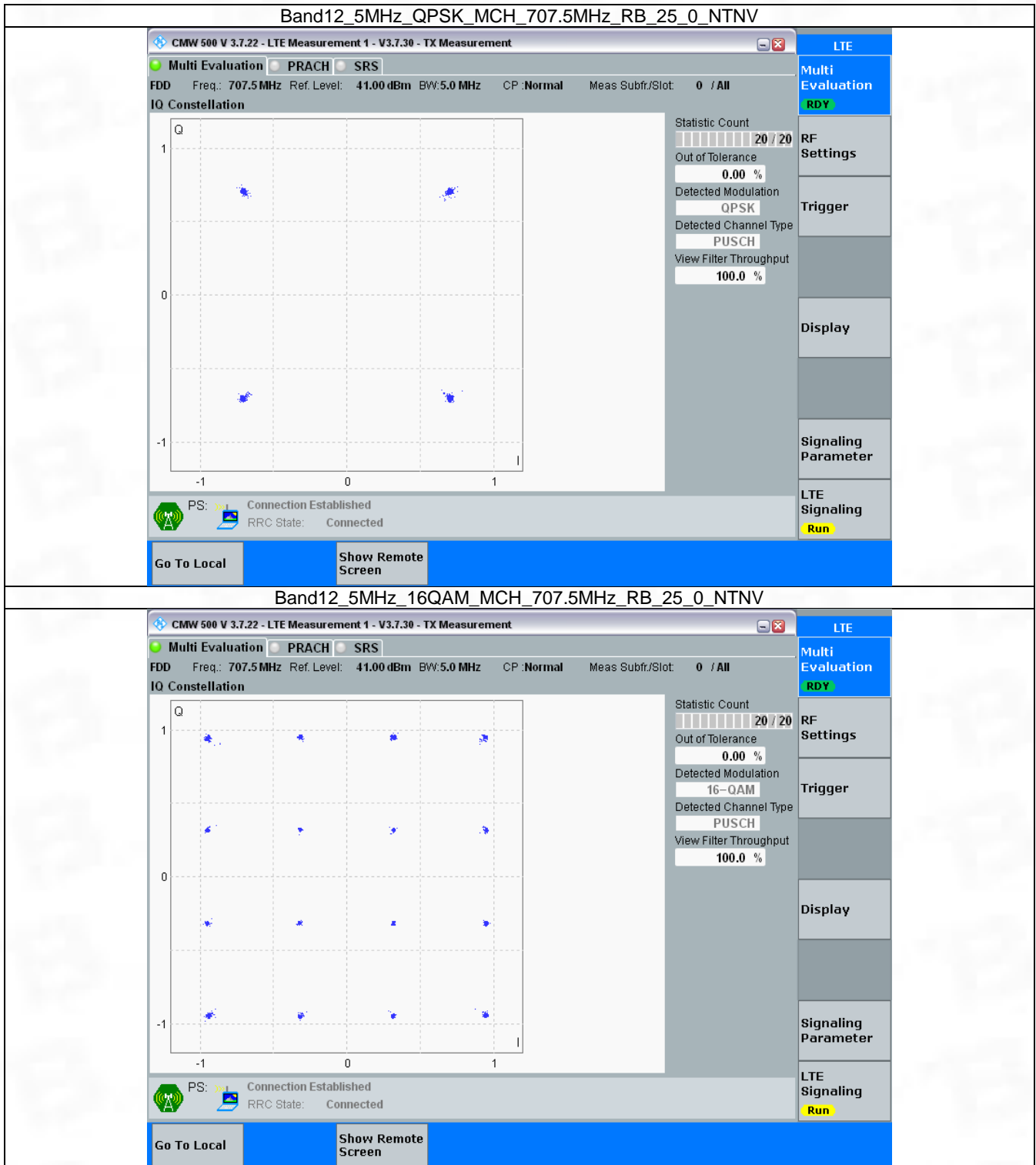


3.3 B12_5MHz

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

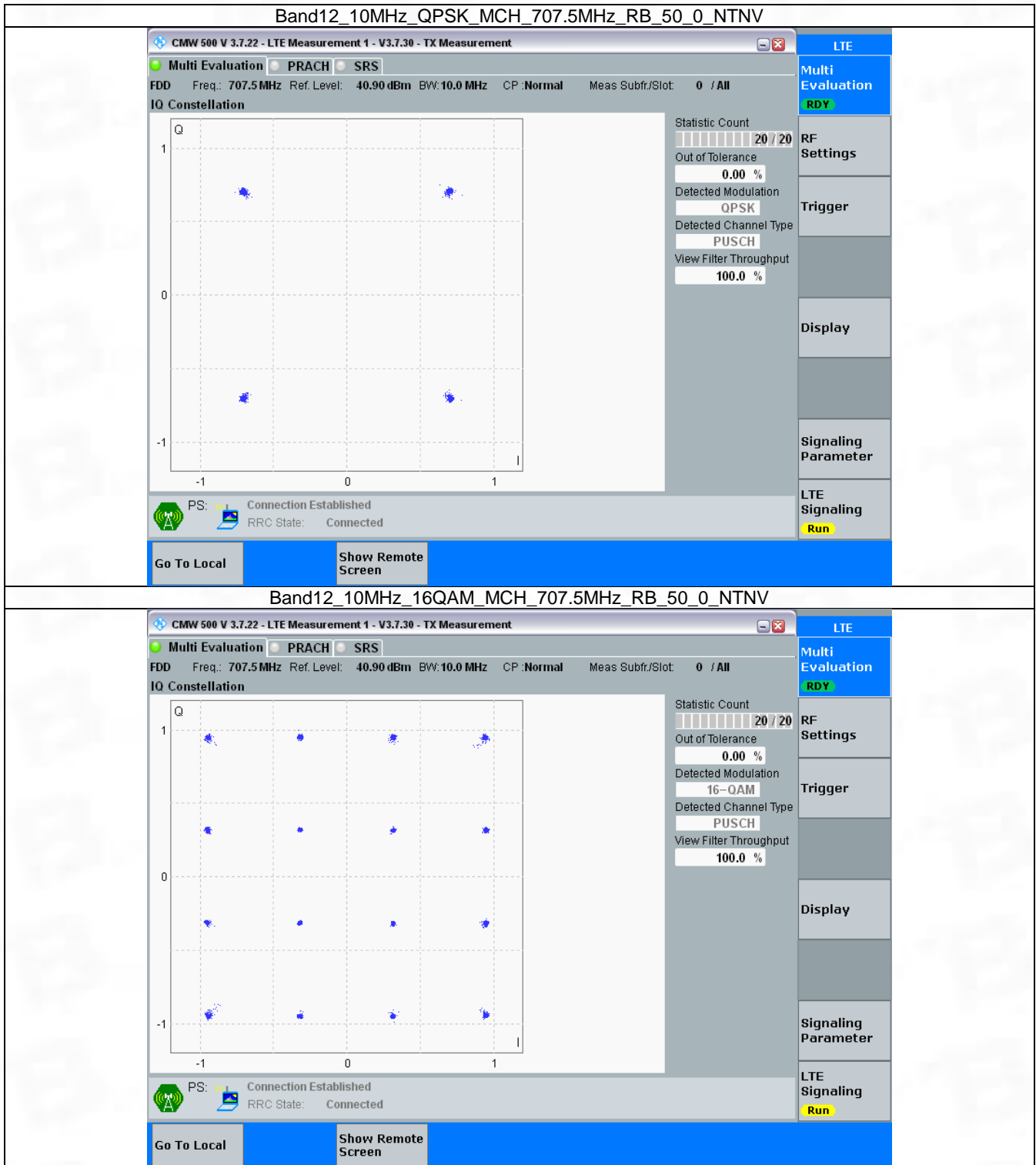


3.4 B12_10MHz

3.4.1 Test Result

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

3.4.2 Test Graph



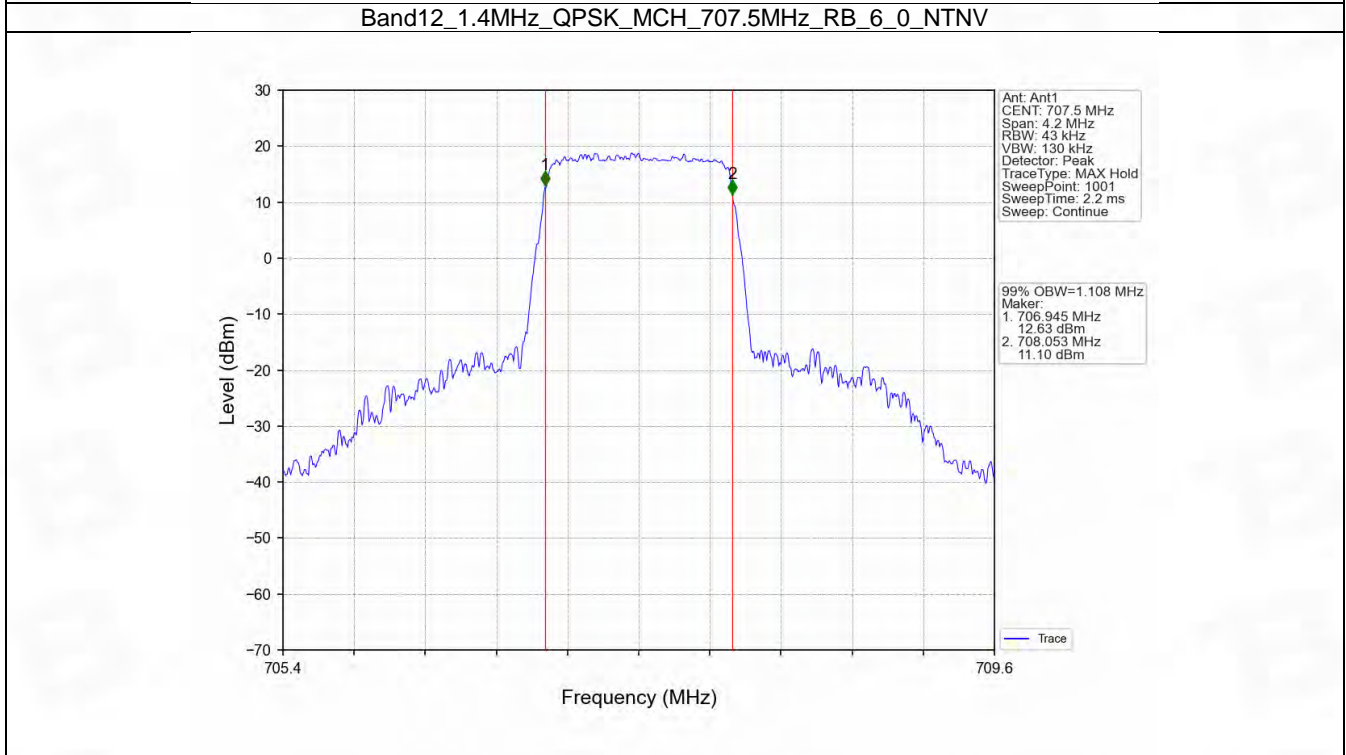
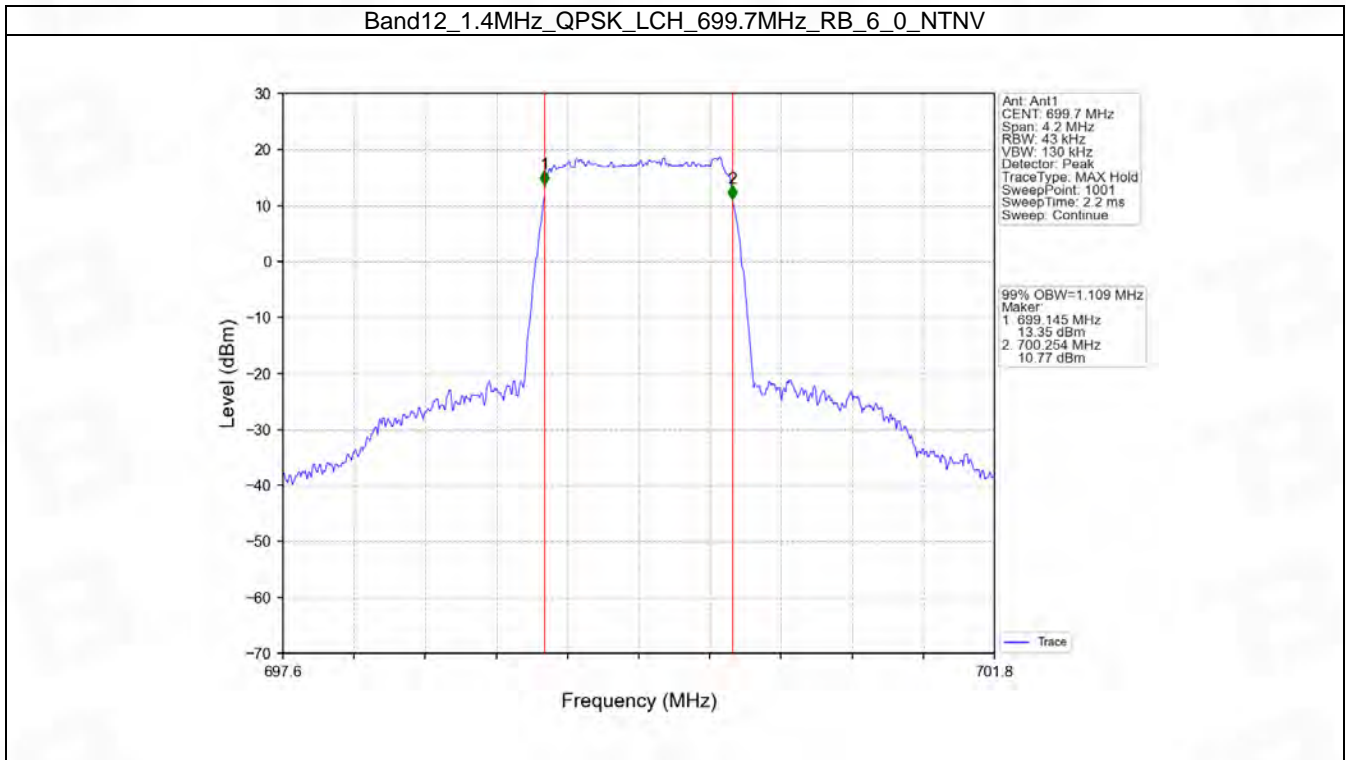
4. 99% & 26dB Bandwidth

4.1 Band12_OBW

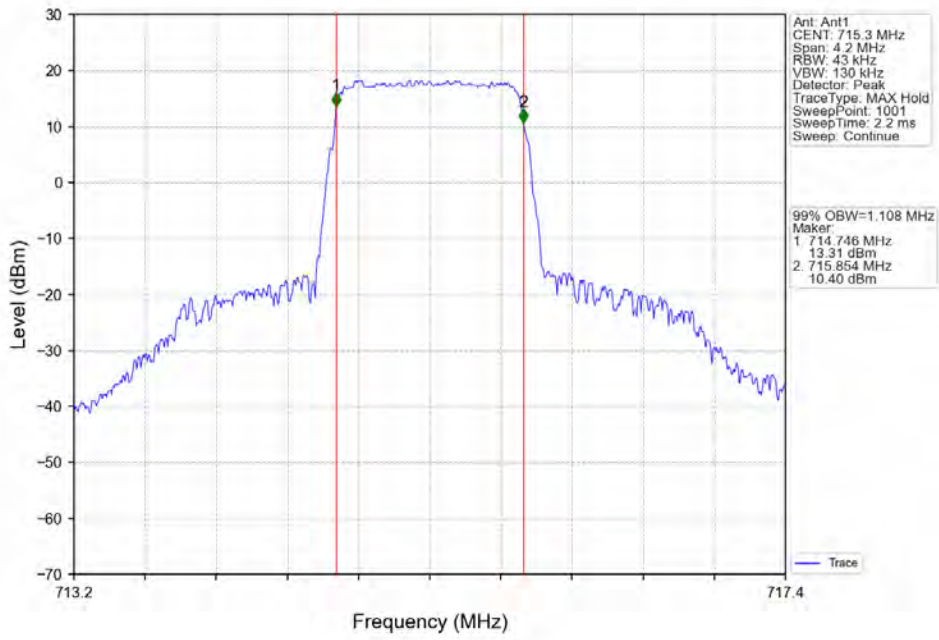
4.1.1 Test Result

Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.109	/	Pass
		707.5	6	0	1.108	/	Pass
		715.3	6	0	1.108	/	Pass
	16QAM	699.7	6	0	1.117	/	Pass
		707.5	6	0	1.106	/	Pass
		715.3	6	0	1.115	/	Pass
3	QPSK	700.5	15	0	2.753	/	Pass
		707.5	15	0	2.760	/	Pass
		714.5	15	0	2.761	/	Pass
	16QAM	700.5	15	0	2.774	/	Pass
		707.5	15	0	2.747	/	Pass
		714.5	15	0	2.761	/	Pass
5	QPSK	701.5	25	0	4.540	/	Pass
		707.5	25	0	4.517	/	Pass
		713.5	25	0	4.562	/	Pass
	16QAM	701.5	25	0	4.540	/	Pass
		707.5	25	0	4.548	/	Pass
		713.5	25	0	4.573	/	Pass
10	QPSK	704	50	0	9.074	/	Pass
		707.5	50	0	9.033	/	Pass
		711	50	0	9.052	/	Pass
	16QAM	704	50	0	9.032	/	Pass
		707.5	50	0	9.029	/	Pass
		711	50	0	9.081	/	Pass

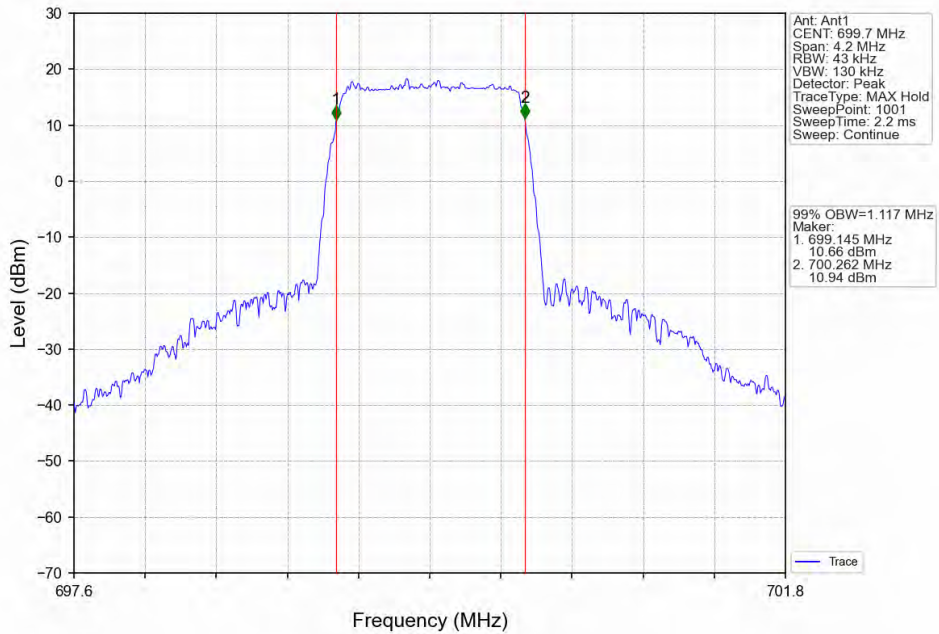
4.1.2 Test Graph



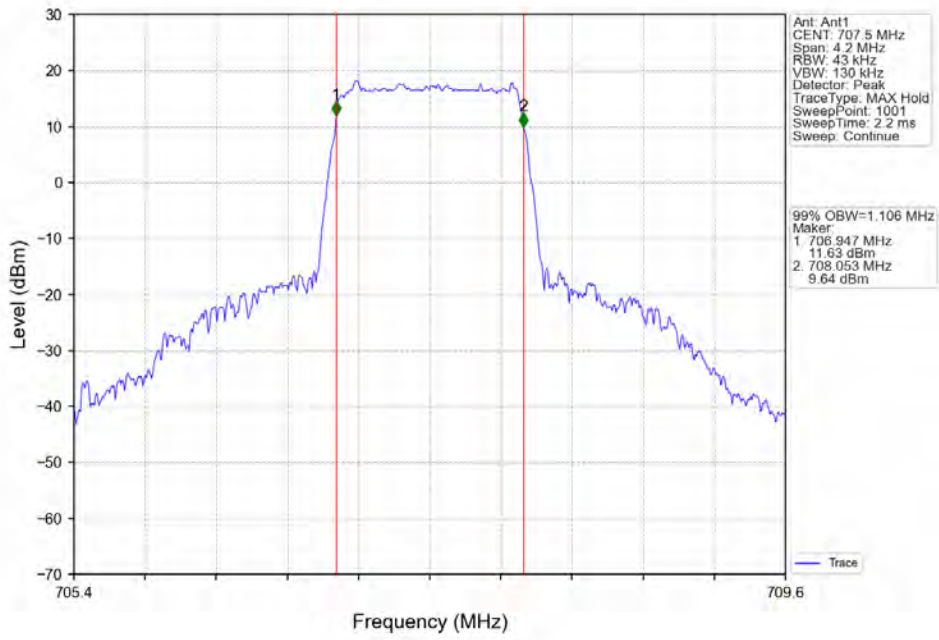
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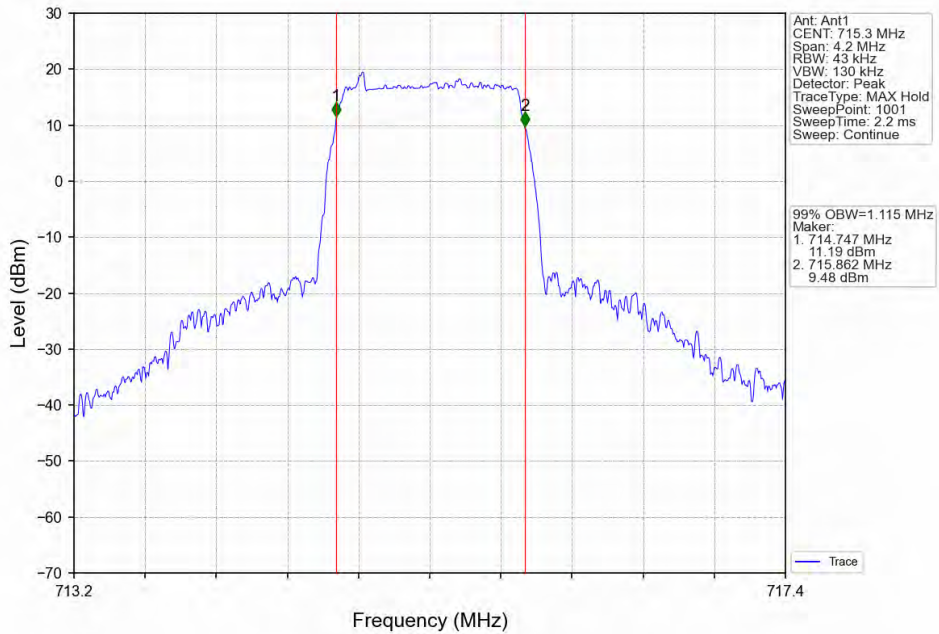
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



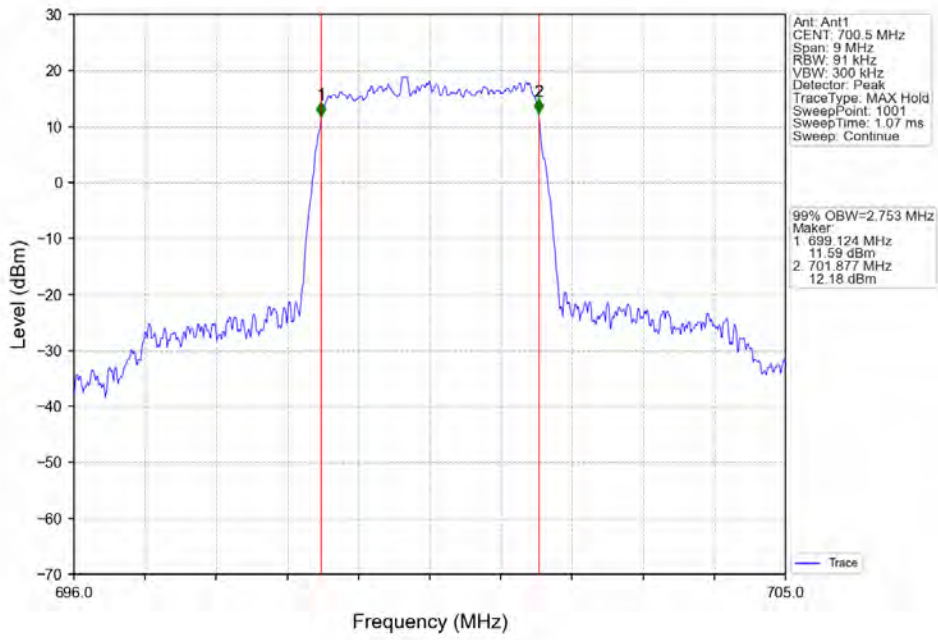
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



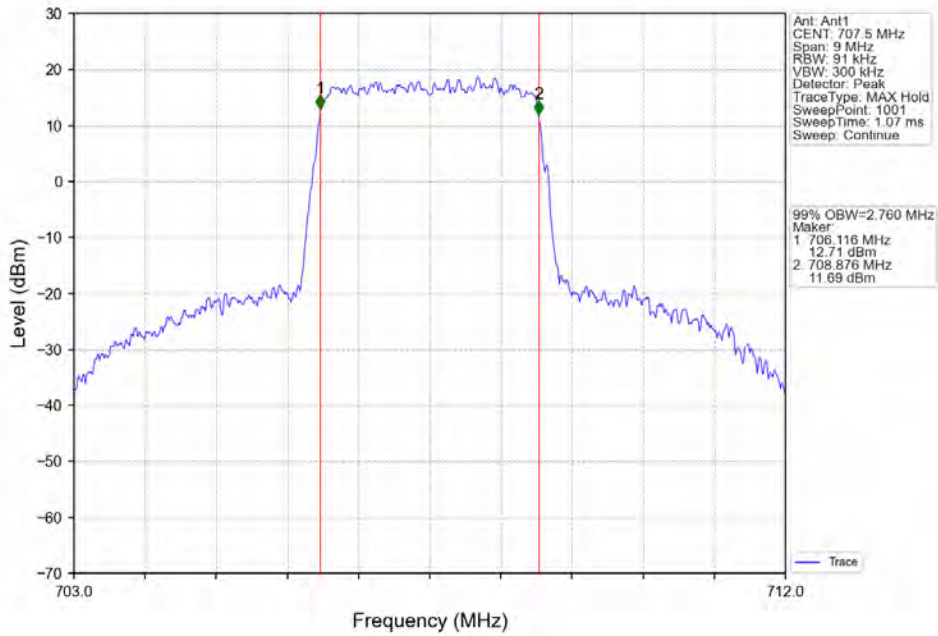
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



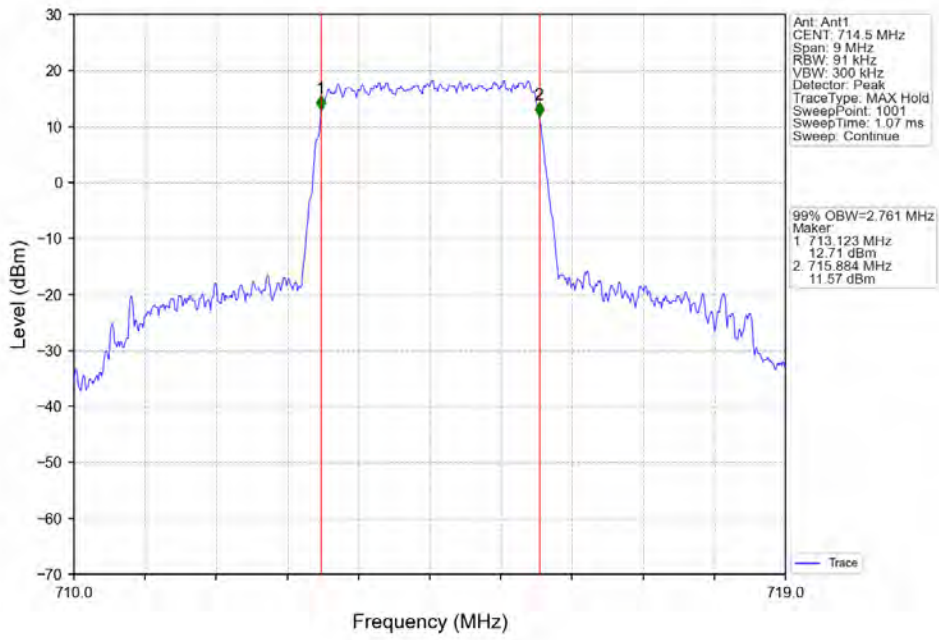
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



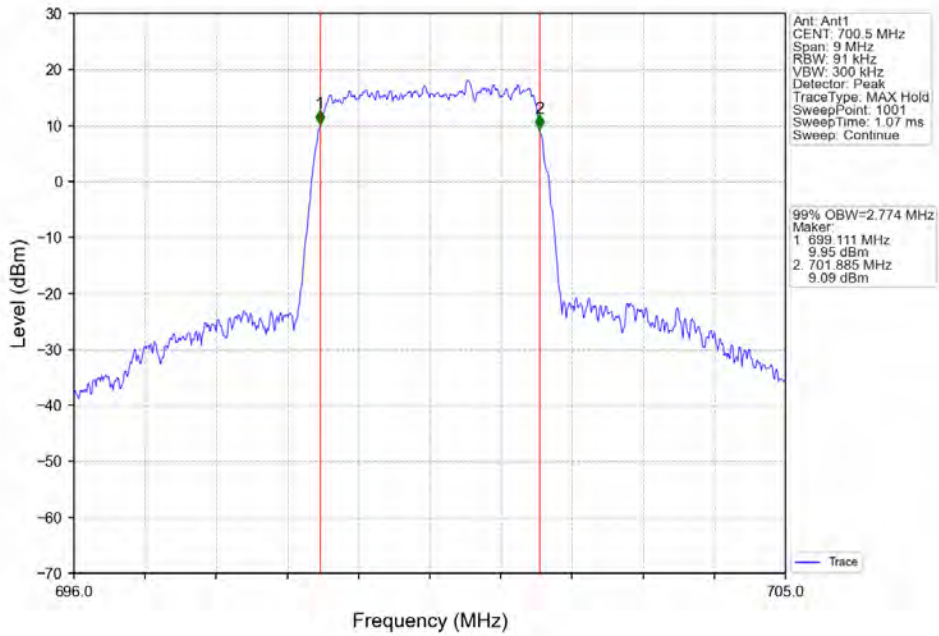
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



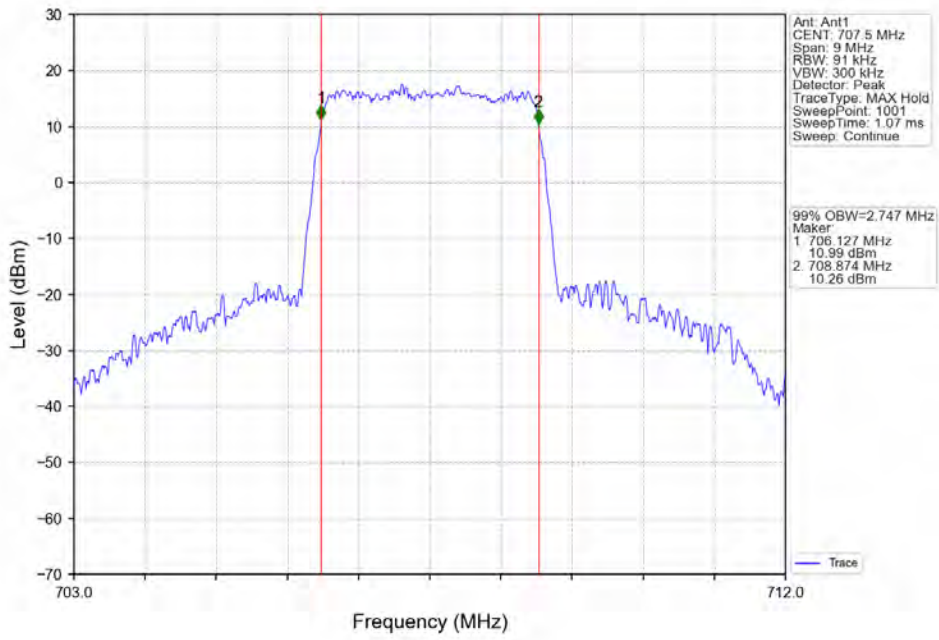
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



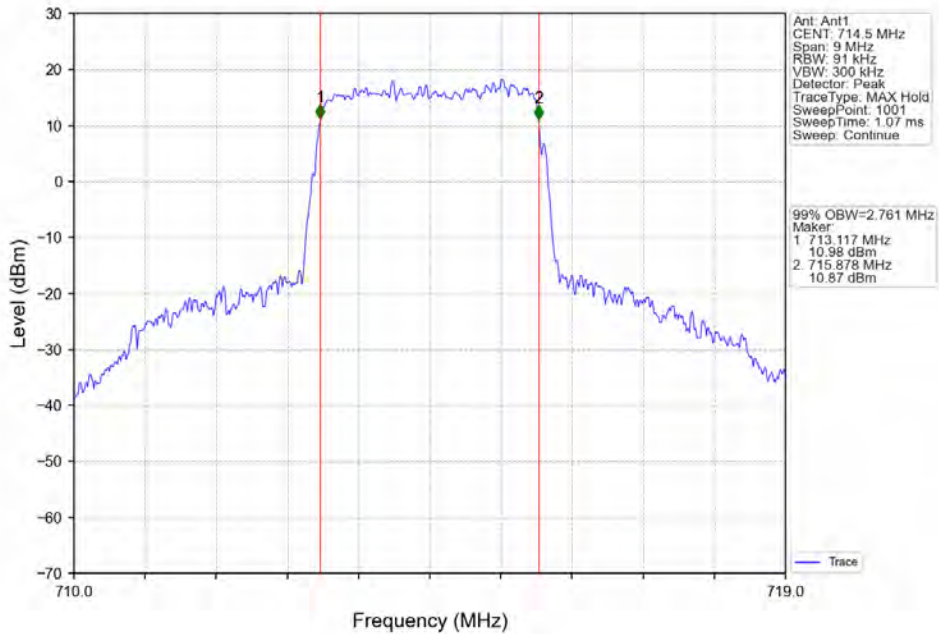
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



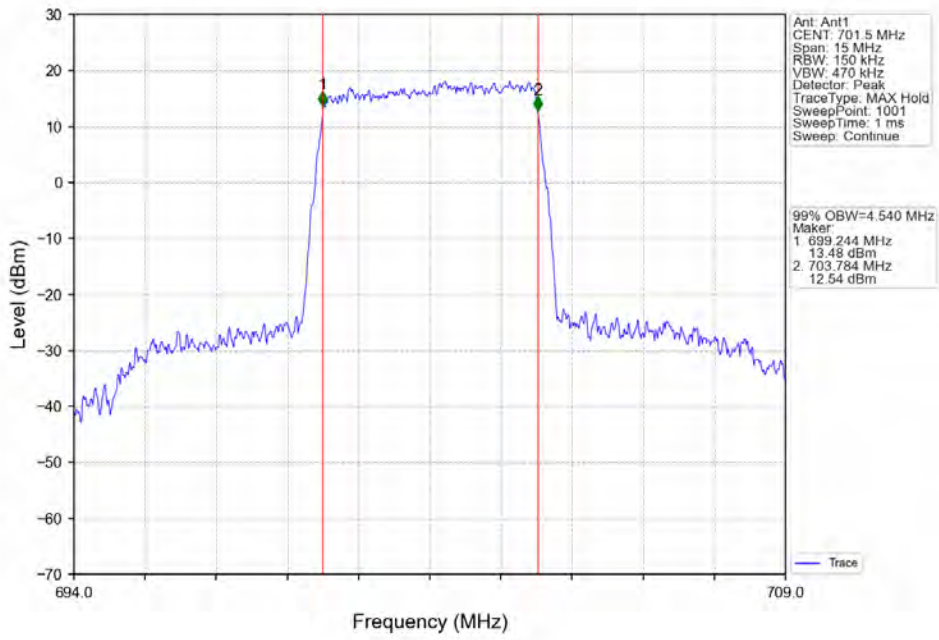
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



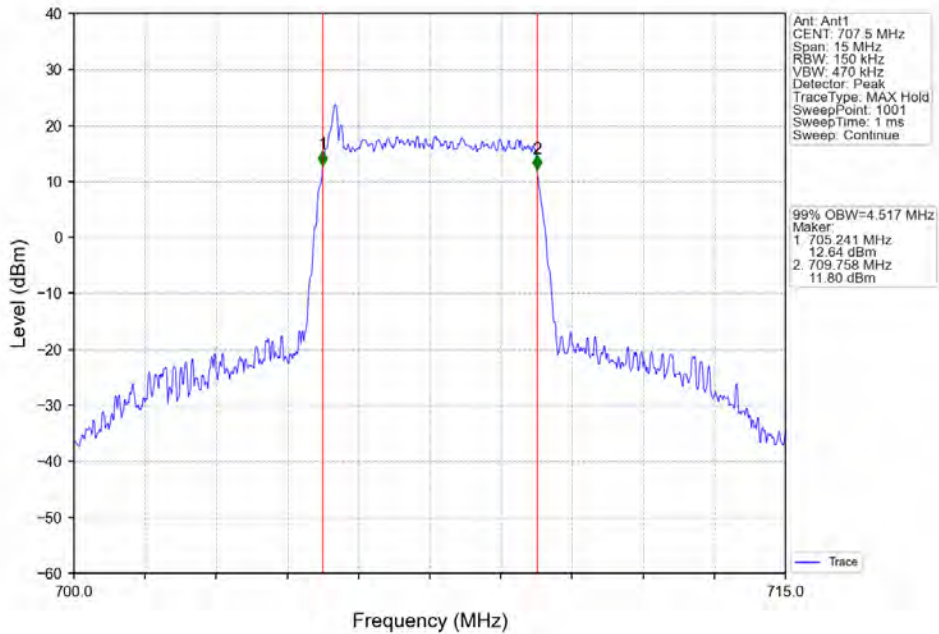
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



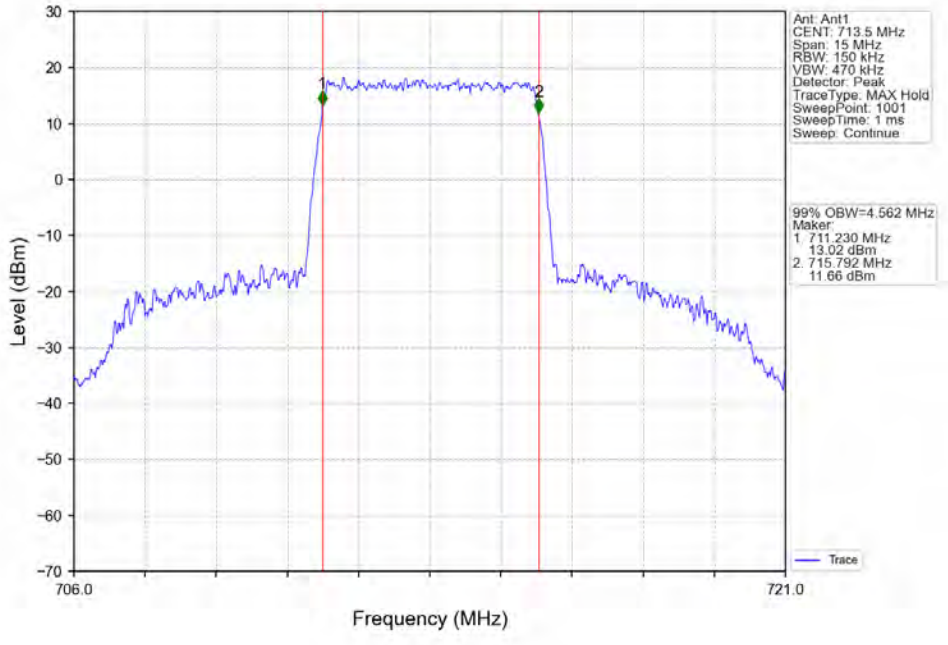
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



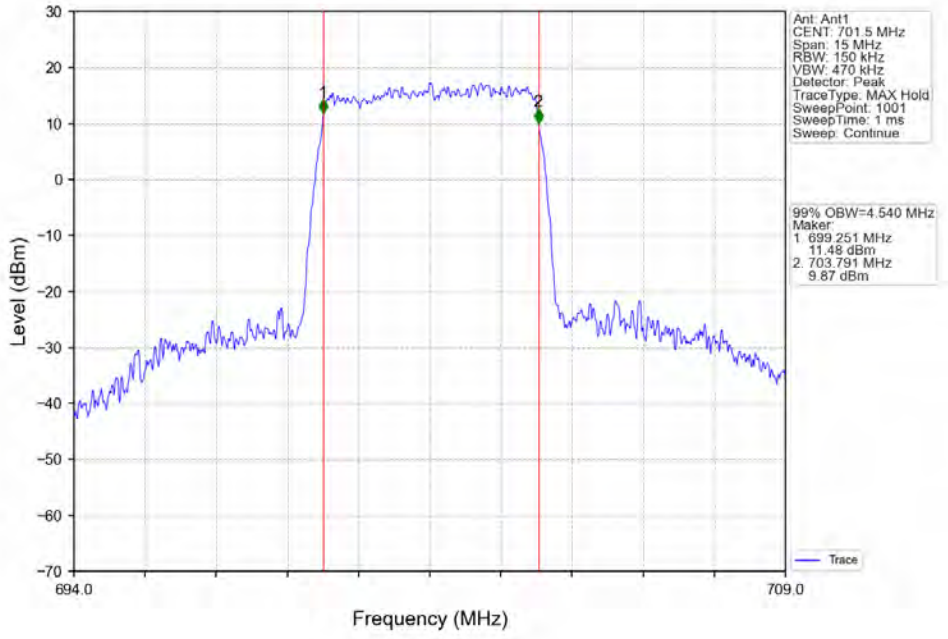
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



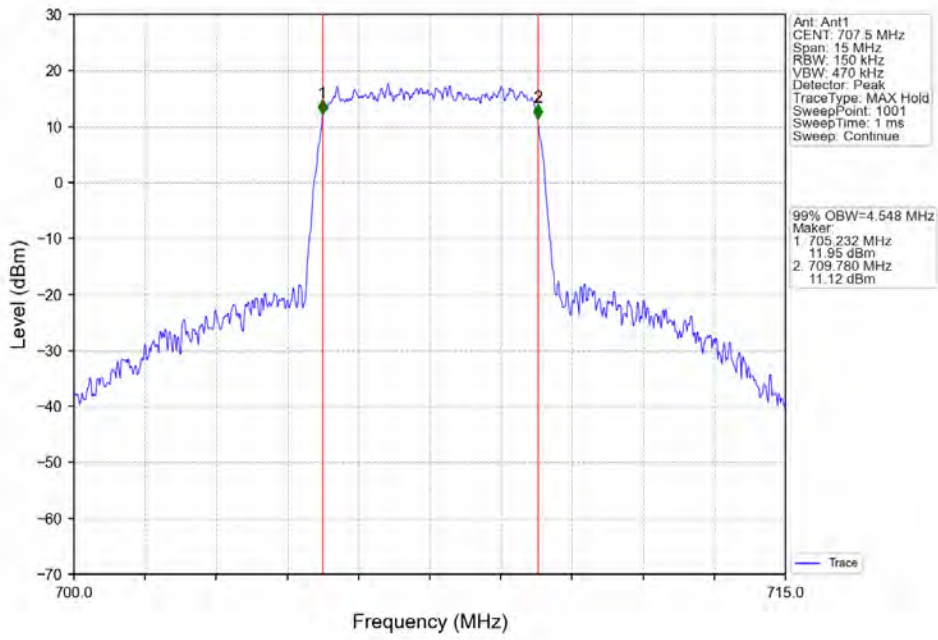
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



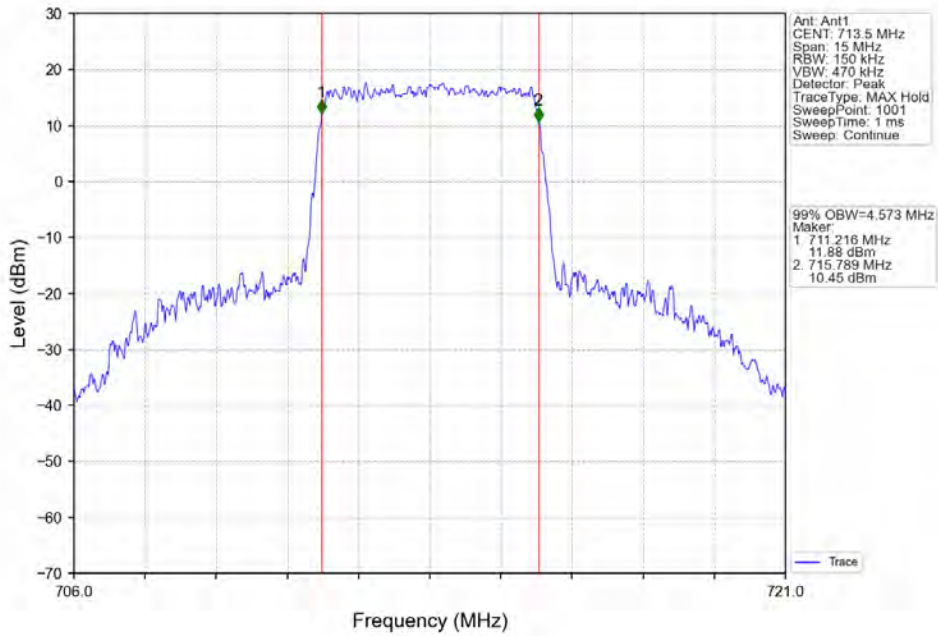
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



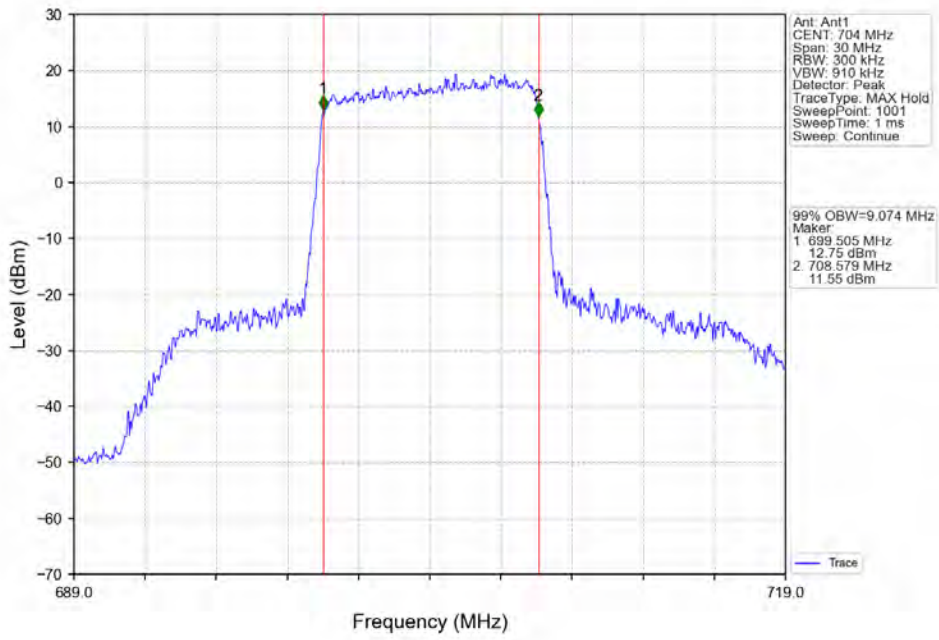
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



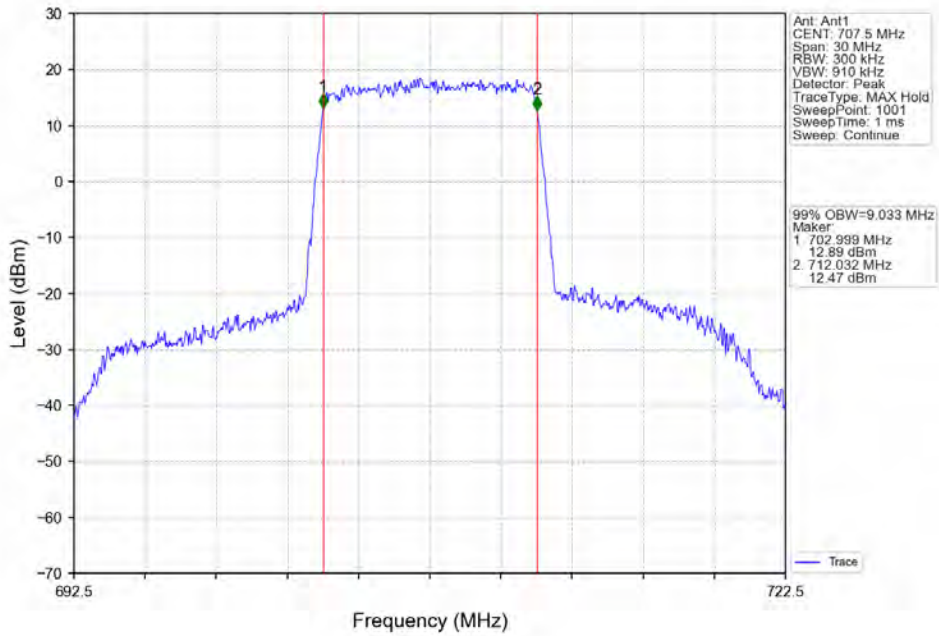
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



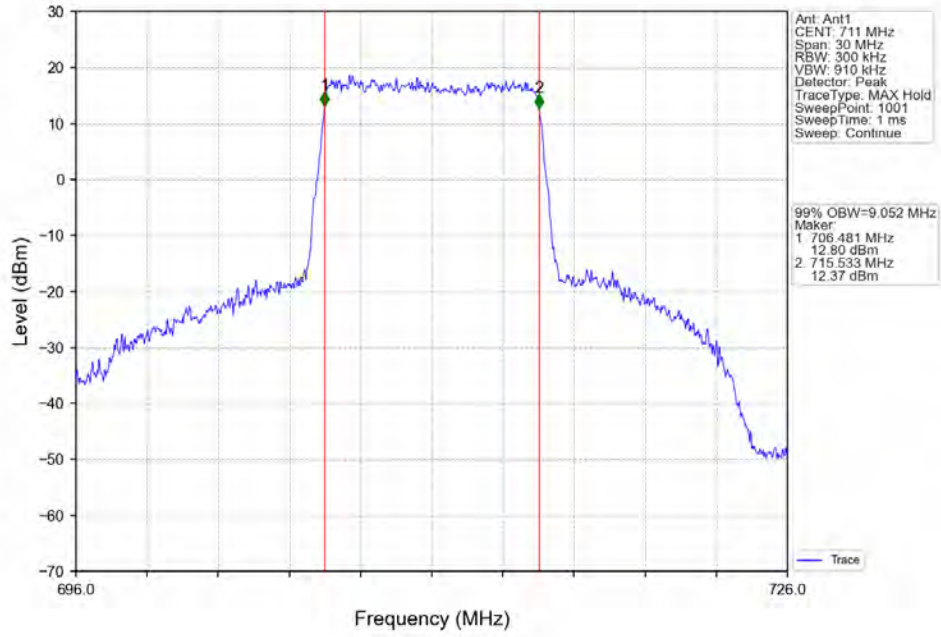
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



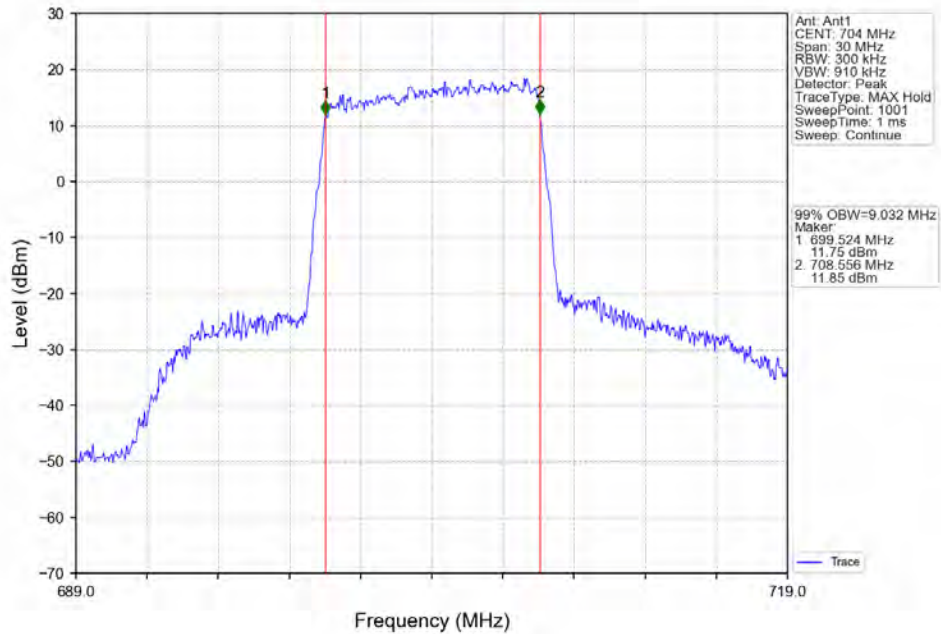
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



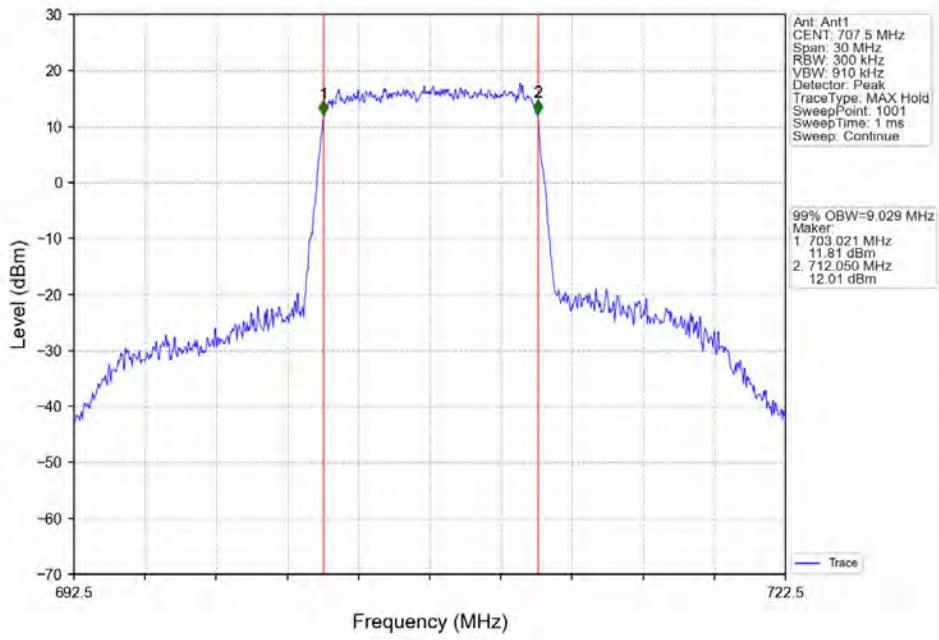
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



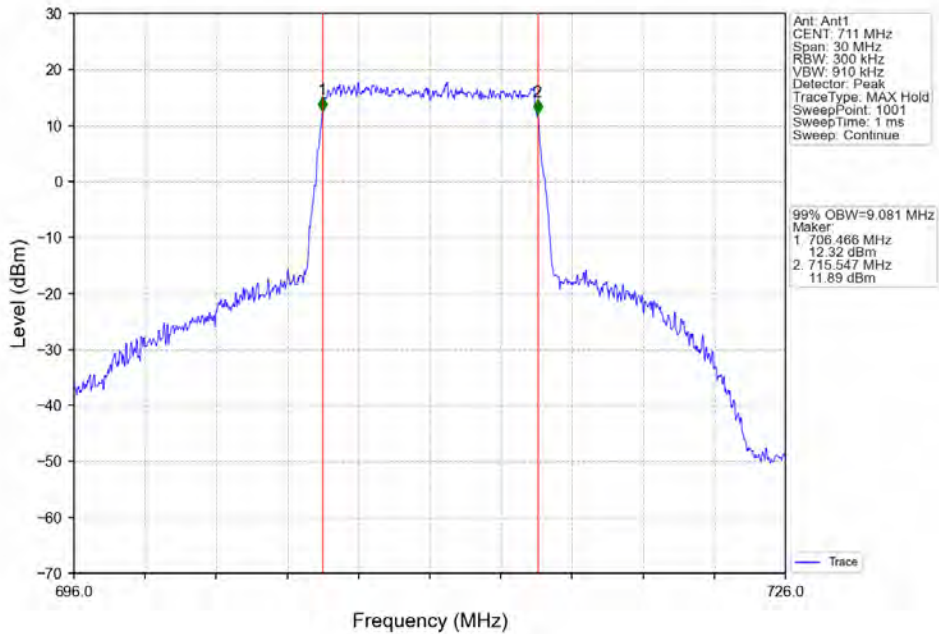
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV

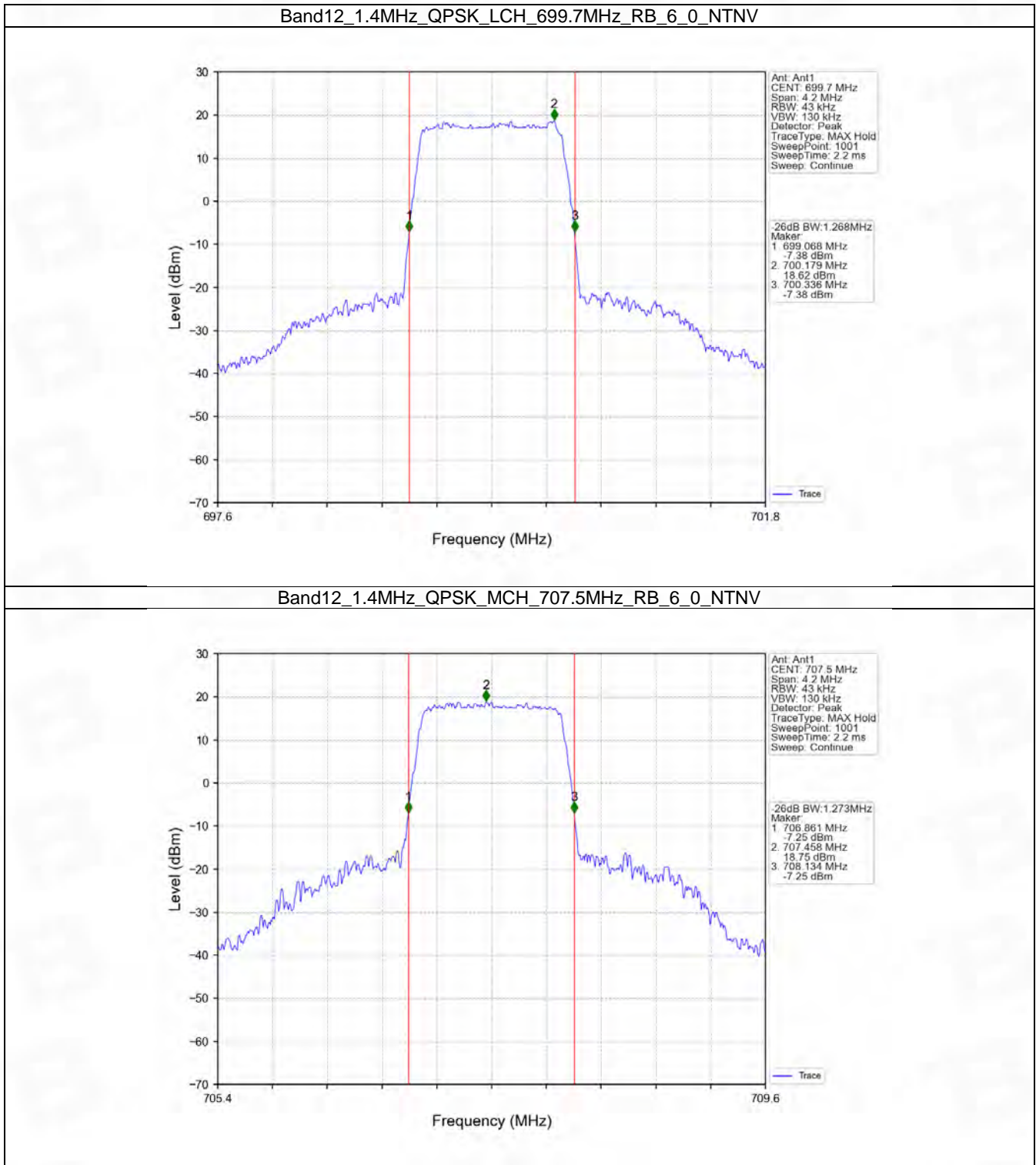


4.2 Band12_XDB

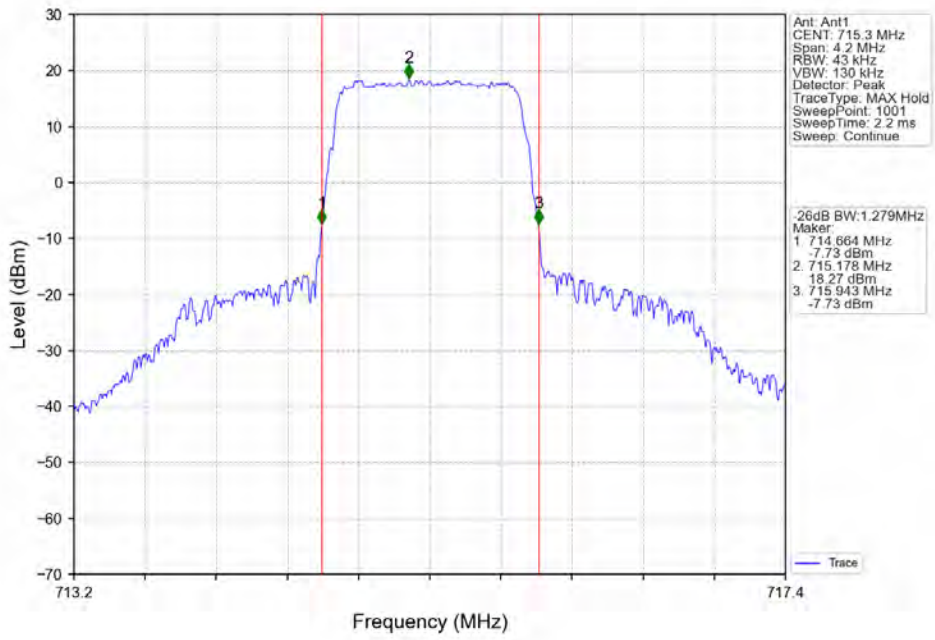
4.2.1 Test Result

Band: 12 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	699.7	6	0	1.268	/	Pass
		707.5	6	0	1.273	/	Pass
		715.3	6	0	1.279	/	Pass
	16QAM	699.7	6	0	1.275	/	Pass
		707.5	6	0	1.267	/	Pass
		715.3	6	0	1.276	/	Pass
3	QPSK	700.5	15	0	3.092	/	Pass
		707.5	15	0	3.091	/	Pass
		714.5	15	0	3.115	/	Pass
	16QAM	700.5	15	0	3.119	/	Pass
		707.5	15	0	3.096	/	Pass
		714.5	15	0	3.094	/	Pass
5	QPSK	701.5	25	0	5.087	/	Pass
		707.5	25	0	4.929	/	Pass
		713.5	25	0	5.073	/	Pass
	16QAM	701.5	25	0	5.072	/	Pass
		707.5	25	0	5.021	/	Pass
		713.5	25	0	5.070	/	Pass
10	QPSK	704	50	0	9.945	/	Pass
		707.5	50	0	9.969	/	Pass
		711	50	0	10.067	/	Pass
	16QAM	704	50	0	10.045	/	Pass
		707.5	50	0	9.951	/	Pass
		711	50	0	10.108	/	Pass

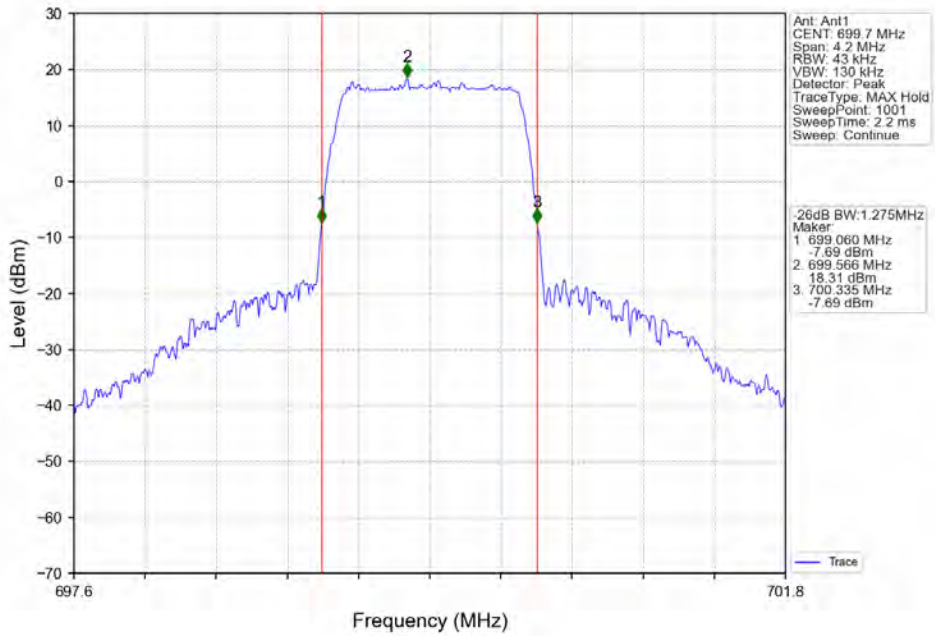
4.2.2 Test Graph



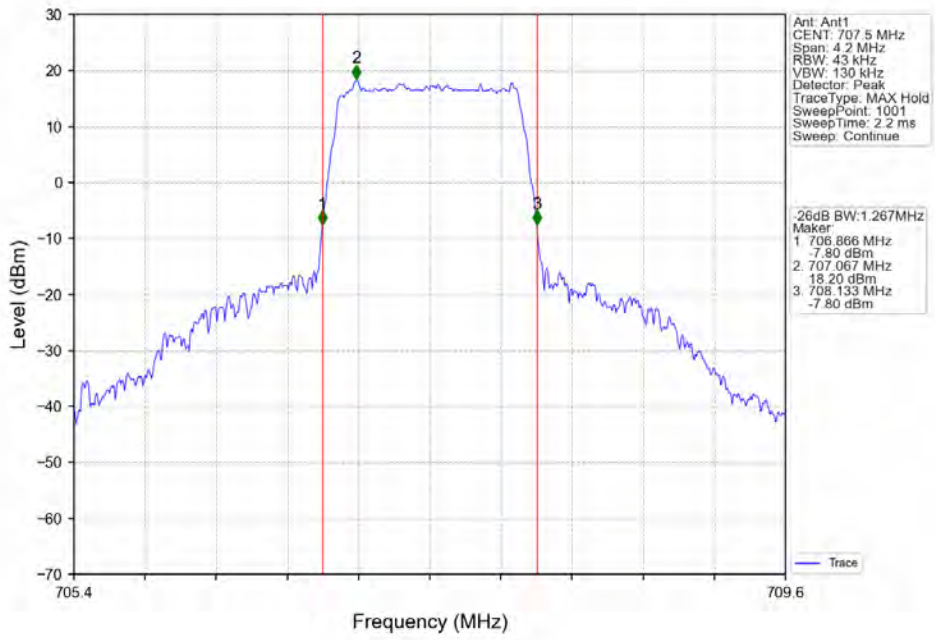
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



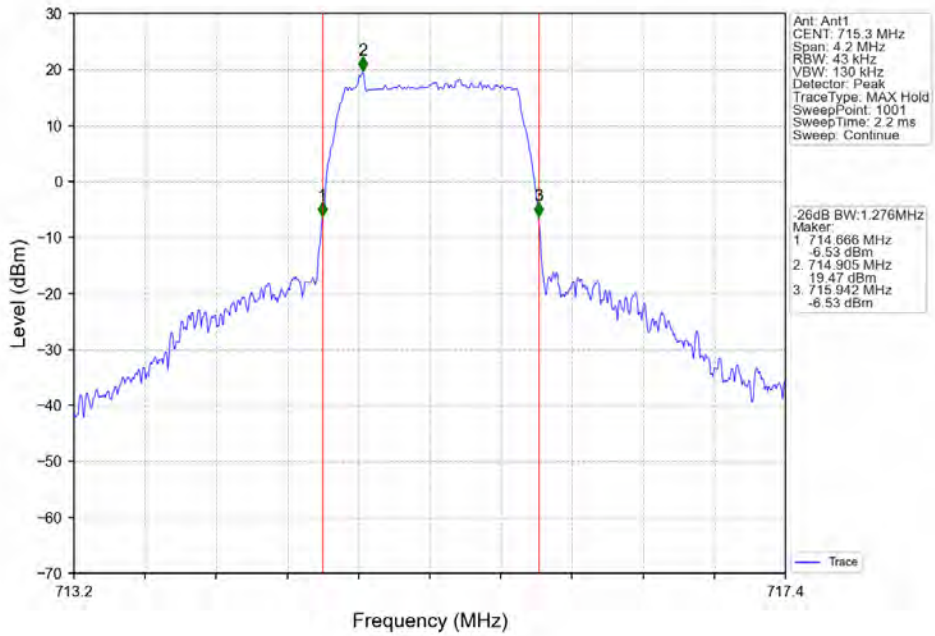
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



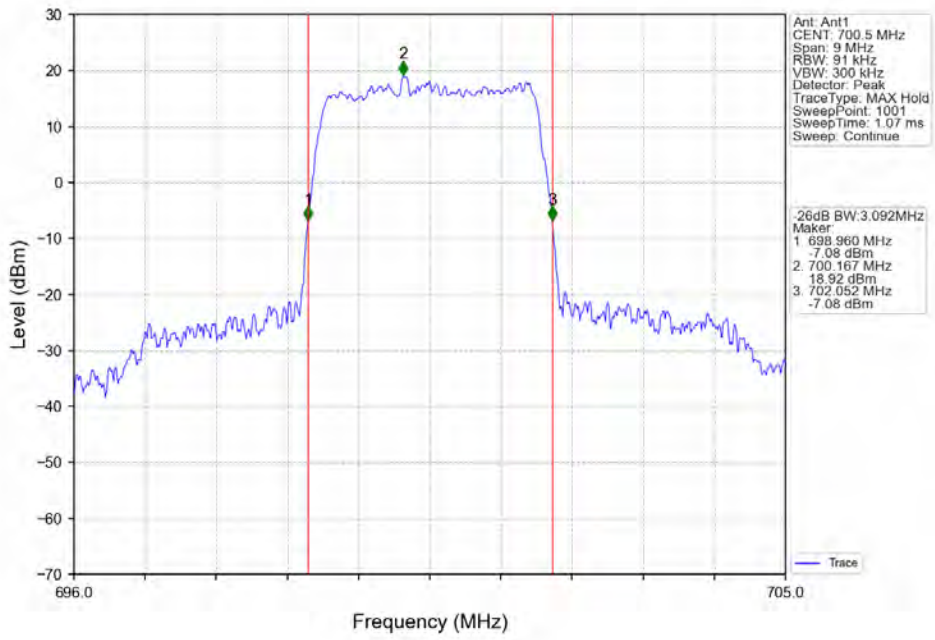
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



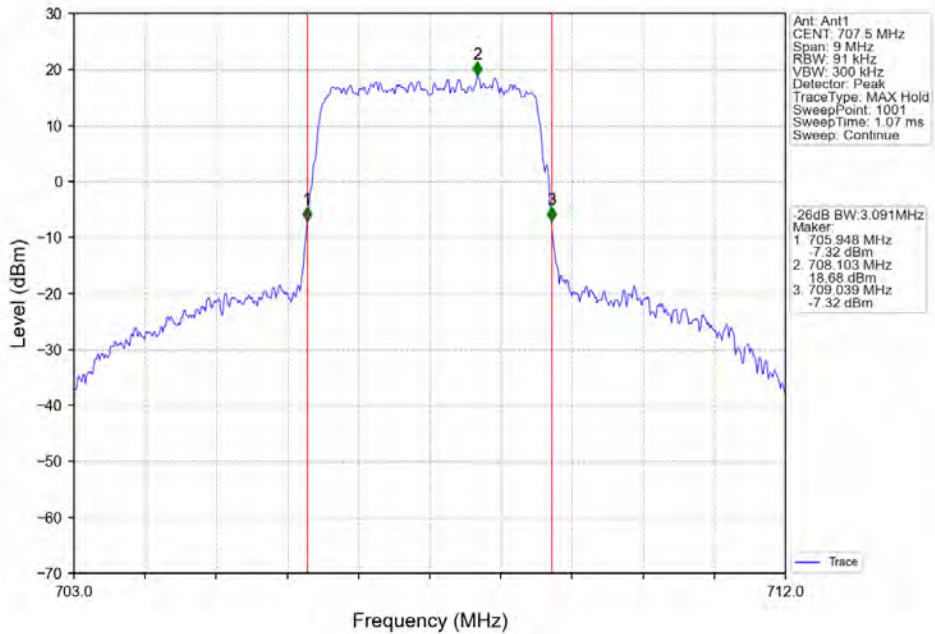
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV



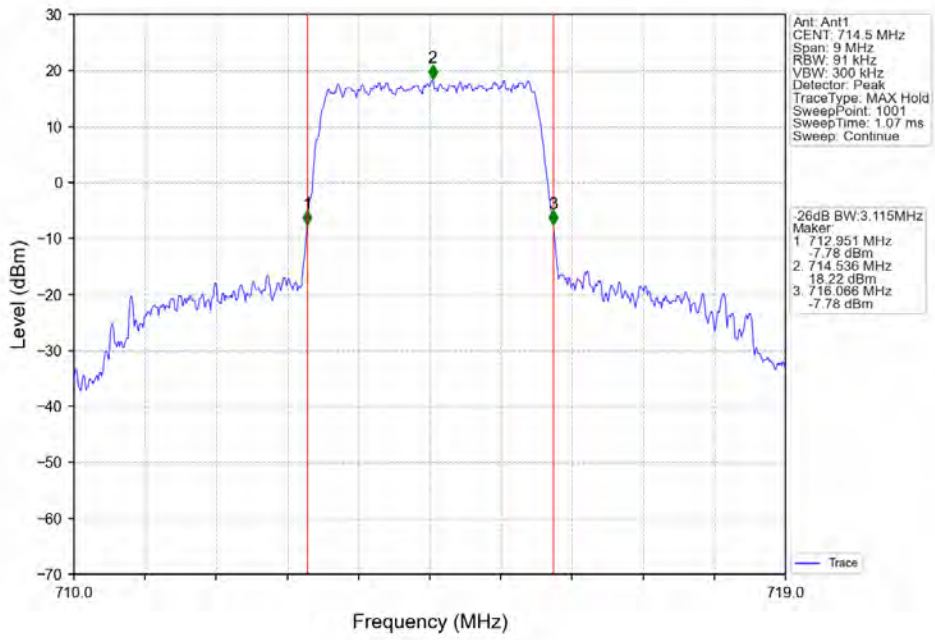
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



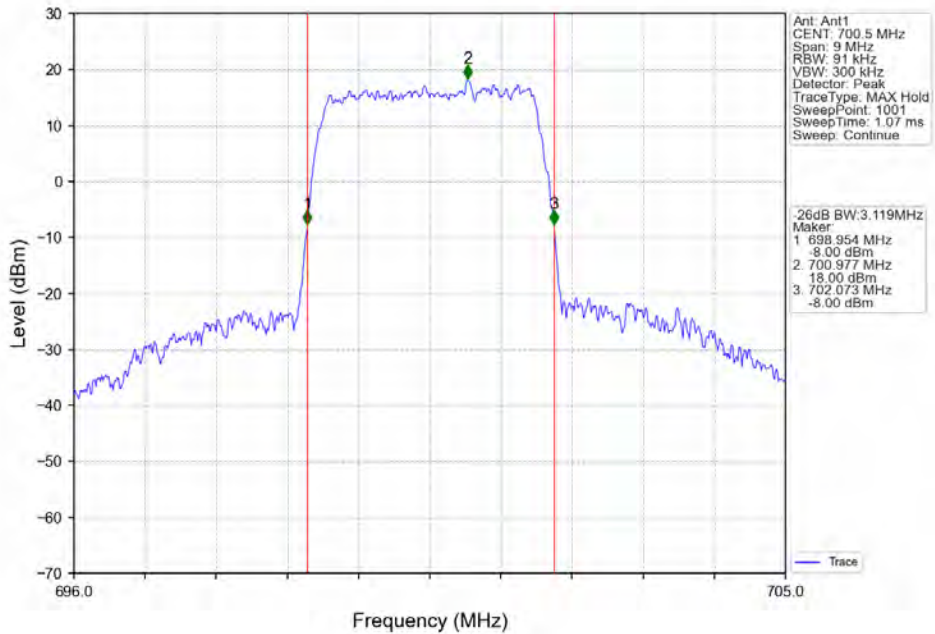
Band12_3MHz_QPSK_MCH_707.5MHz_RB_15_0_NTNV



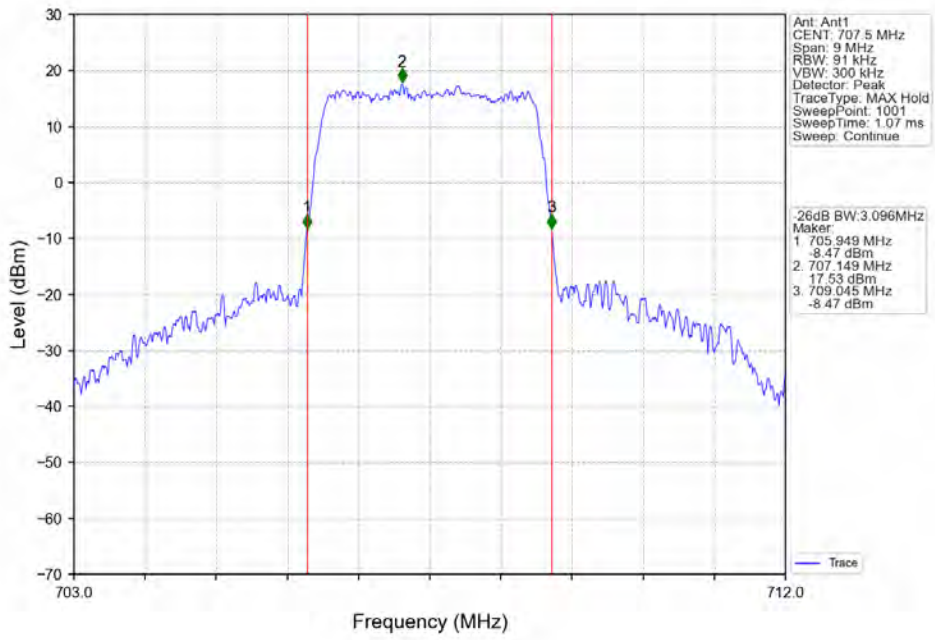
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



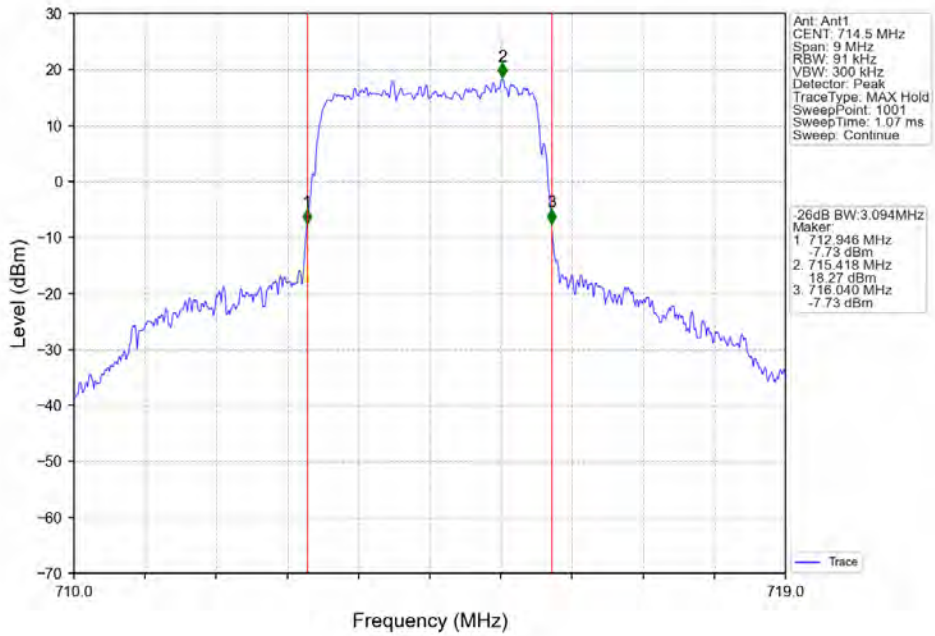
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



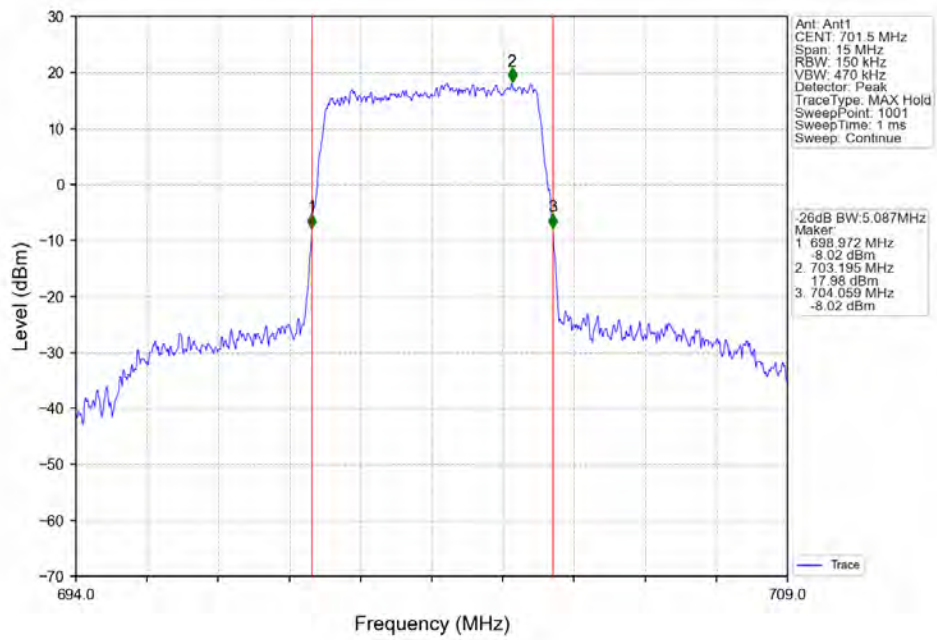
Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



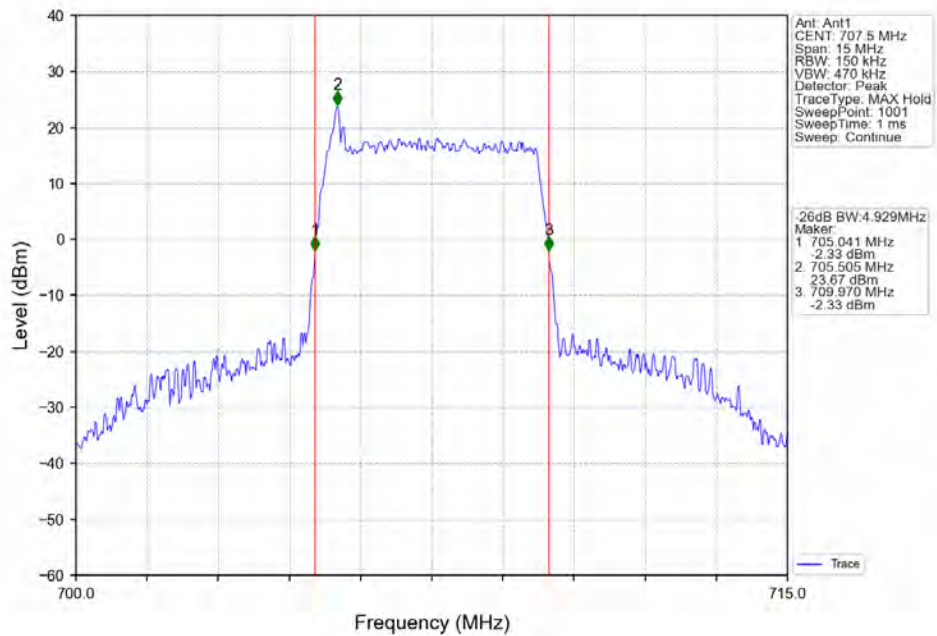
Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



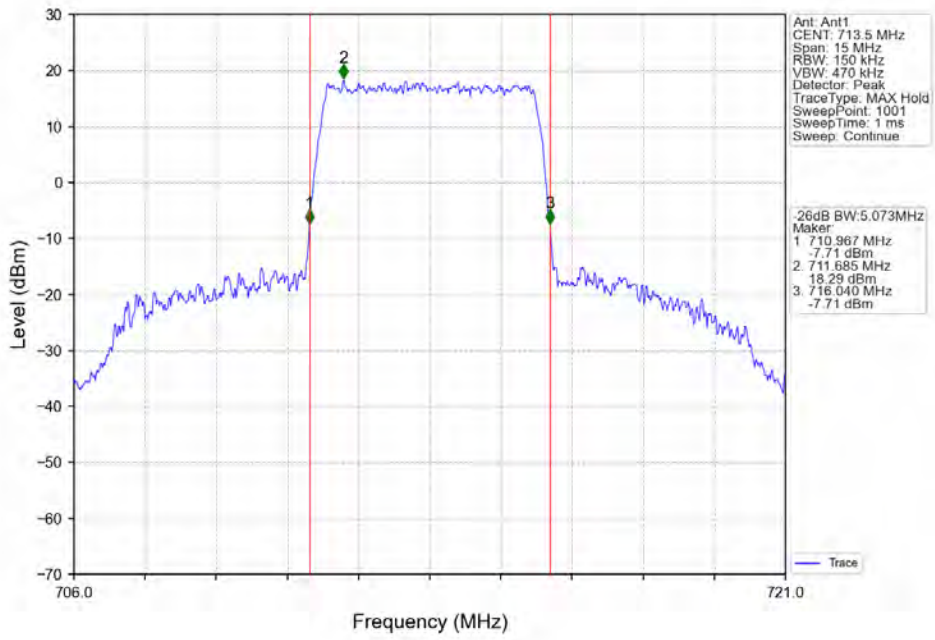
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



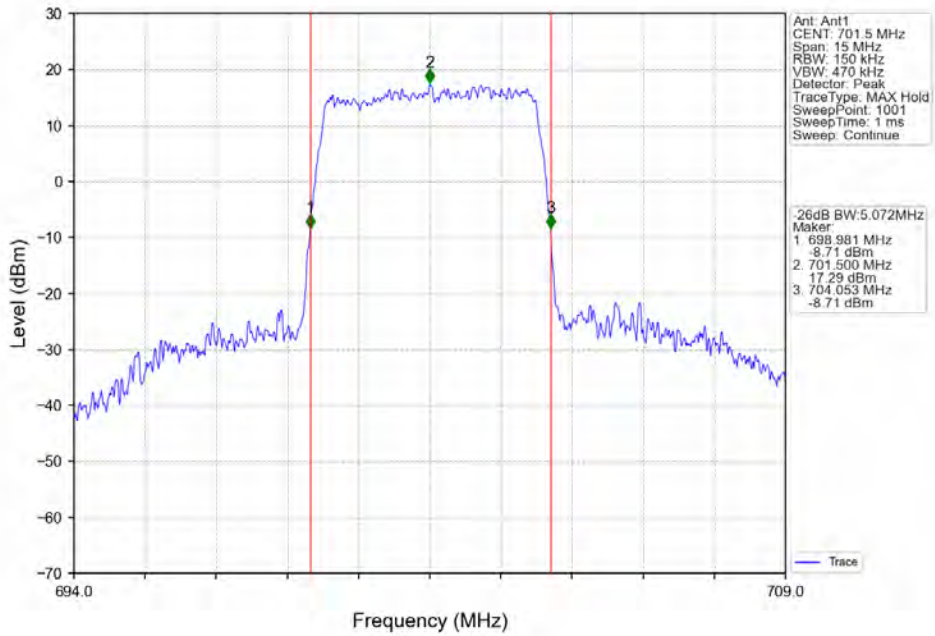
Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



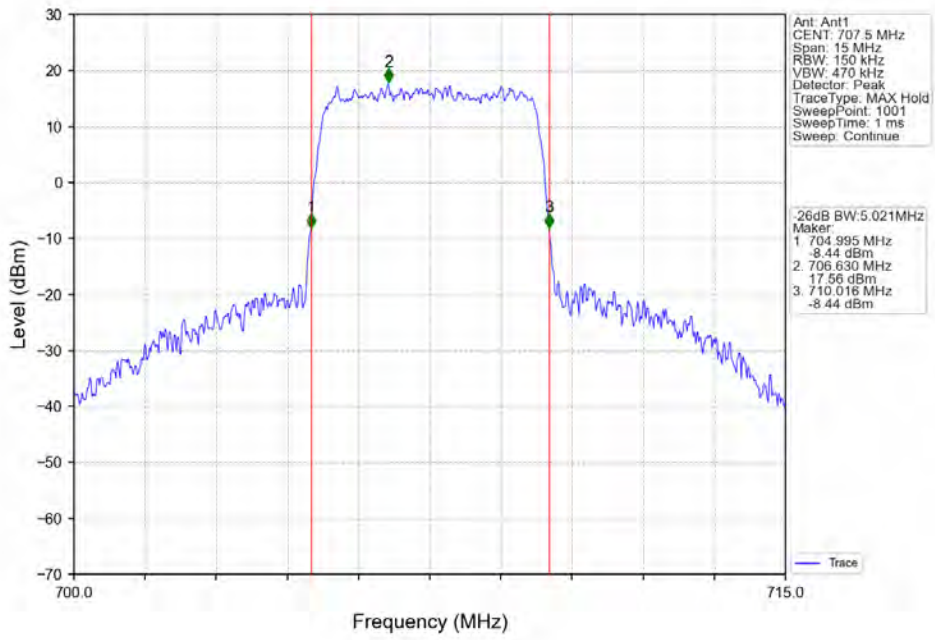
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



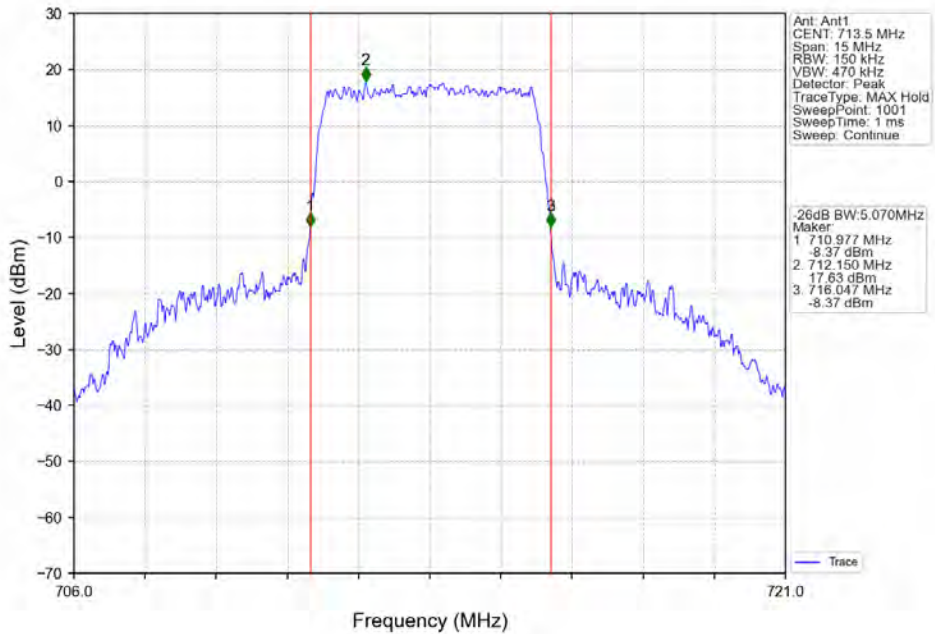
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



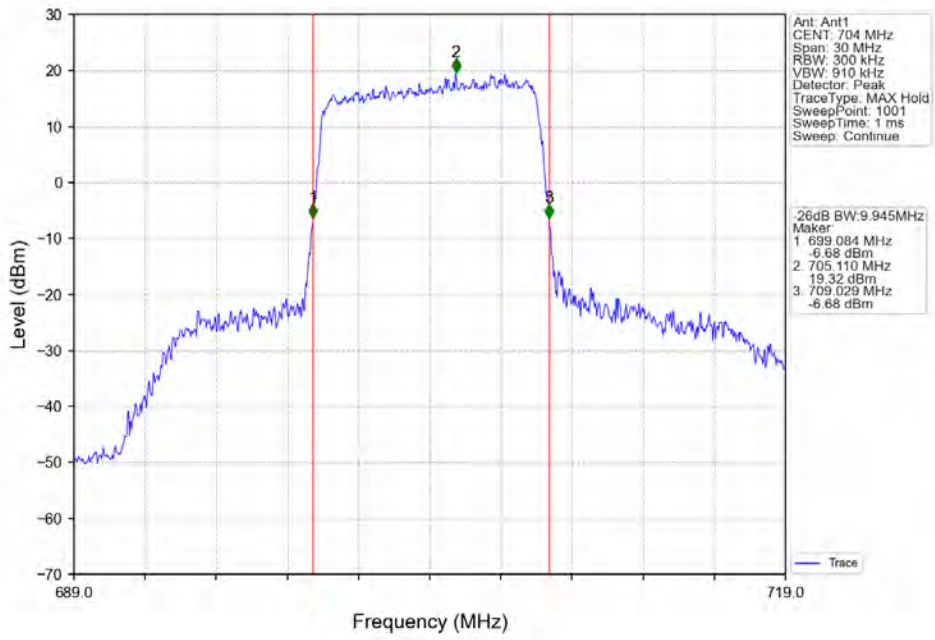
Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



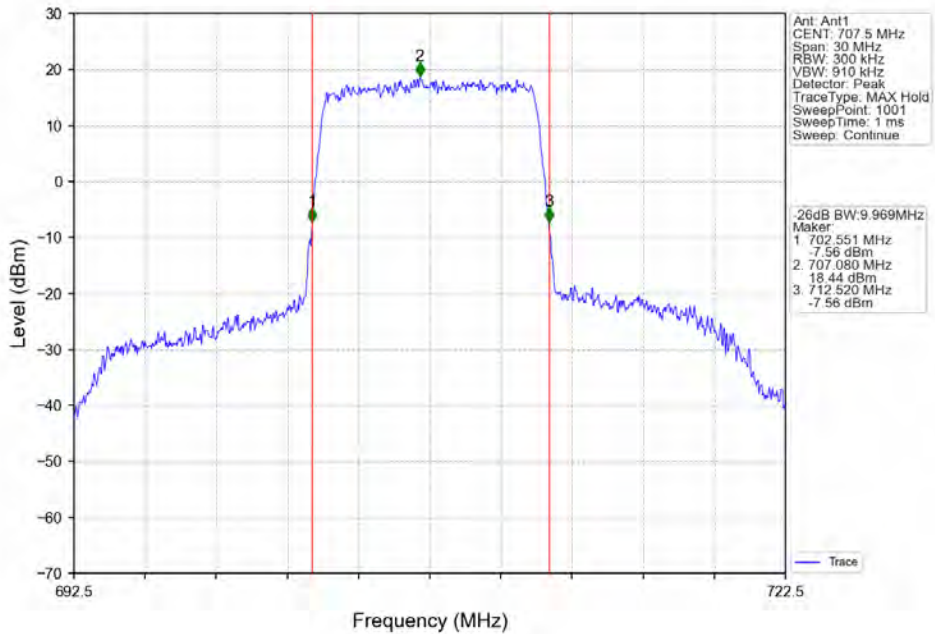
Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



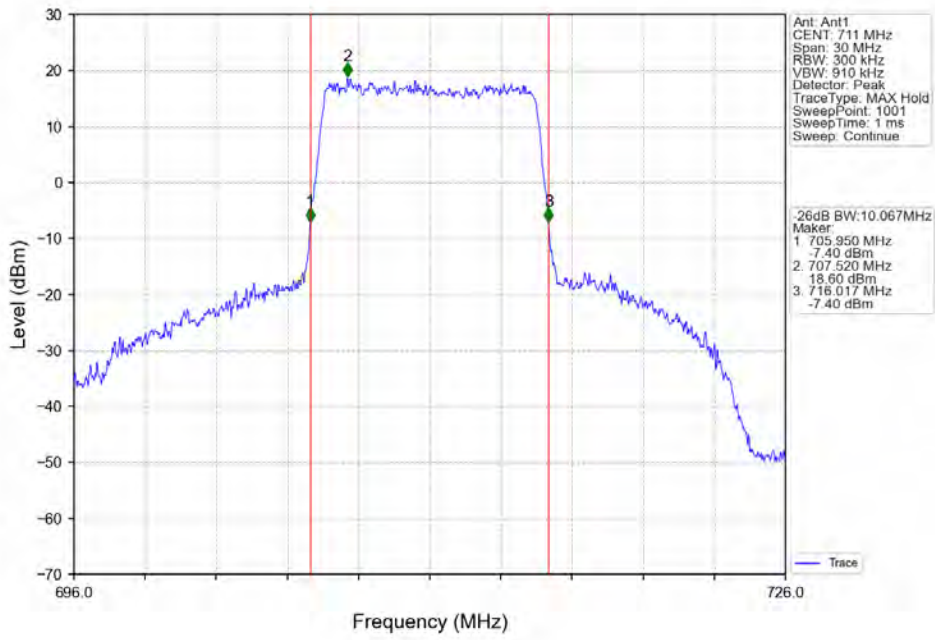
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



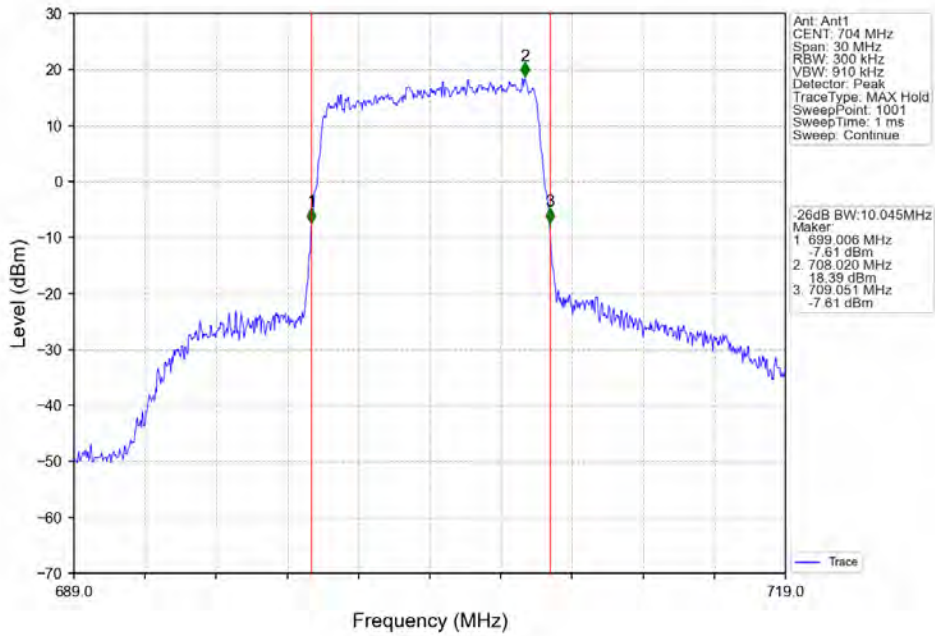
Band12_10MHz_QPSK_MCH_707.5MHz_RB_50_0_NTNV



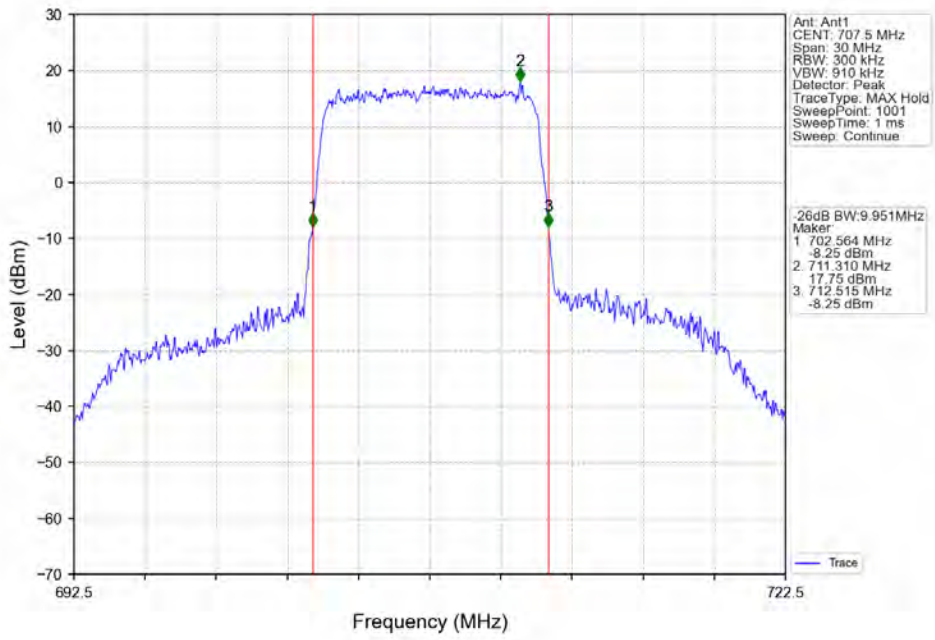
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



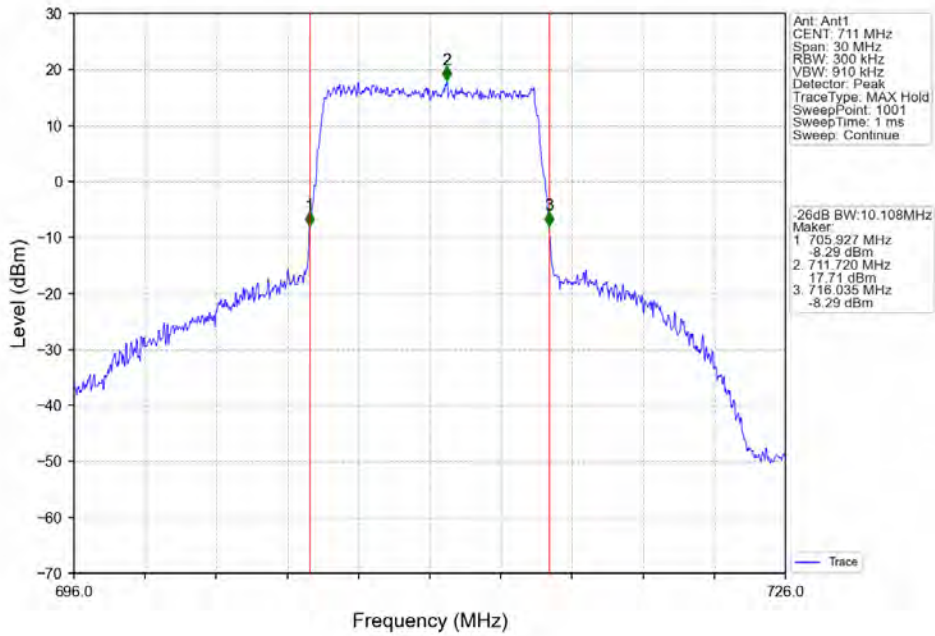
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



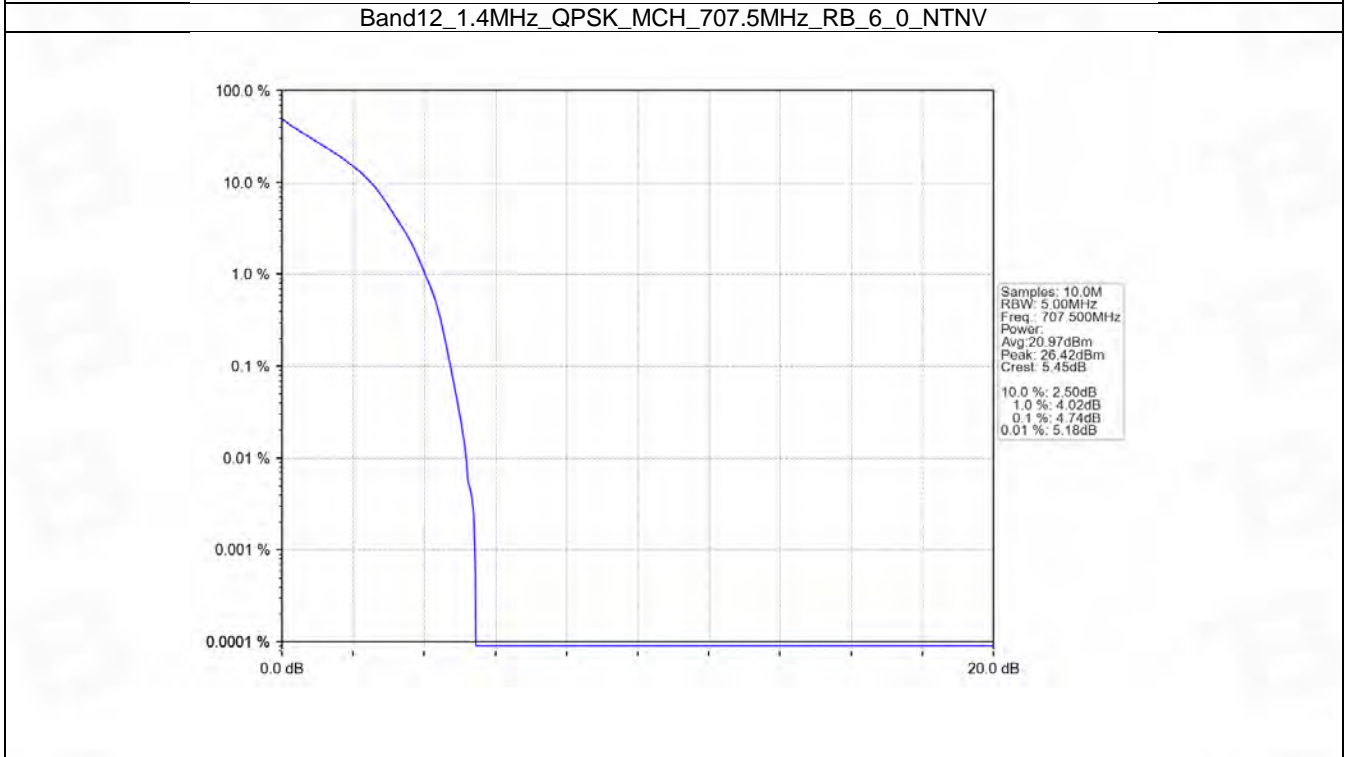
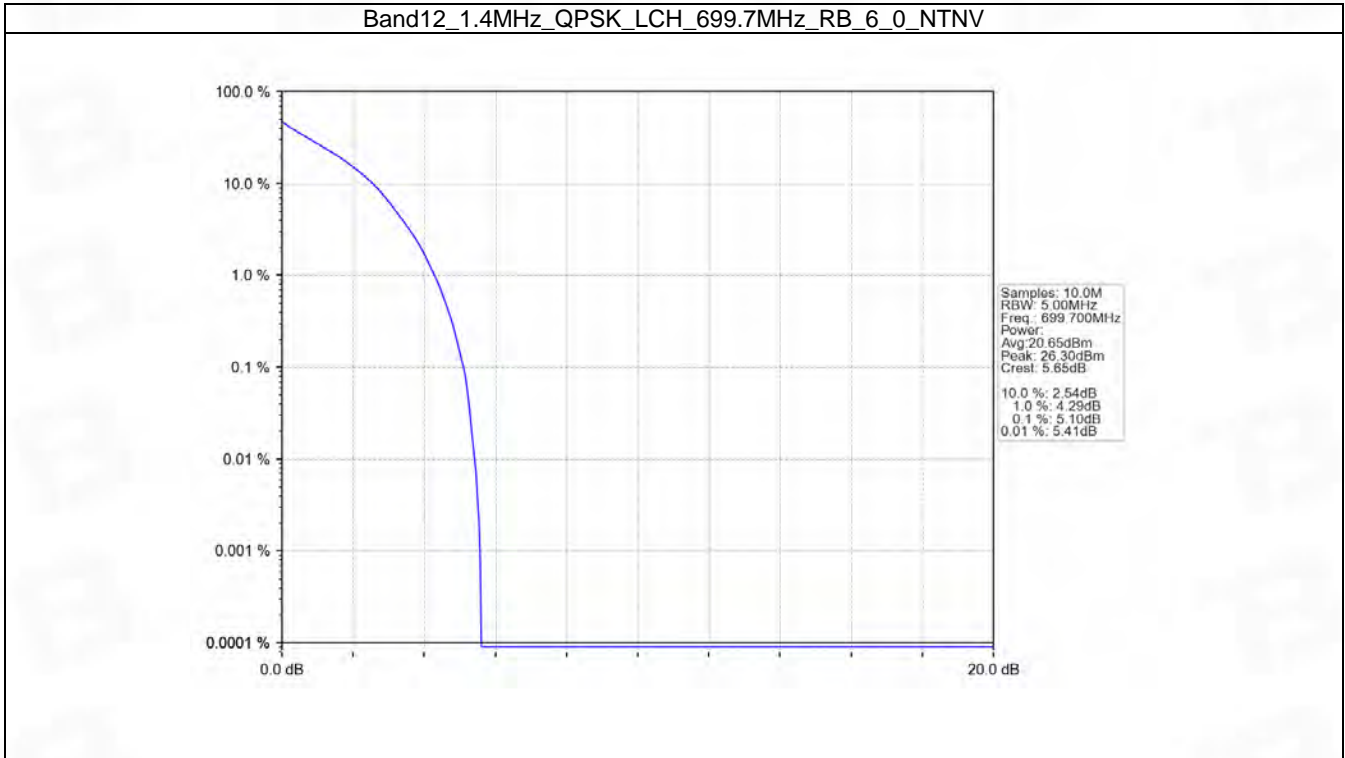
5. Peak-Average Ratio

5.1 B12_1.4MHz

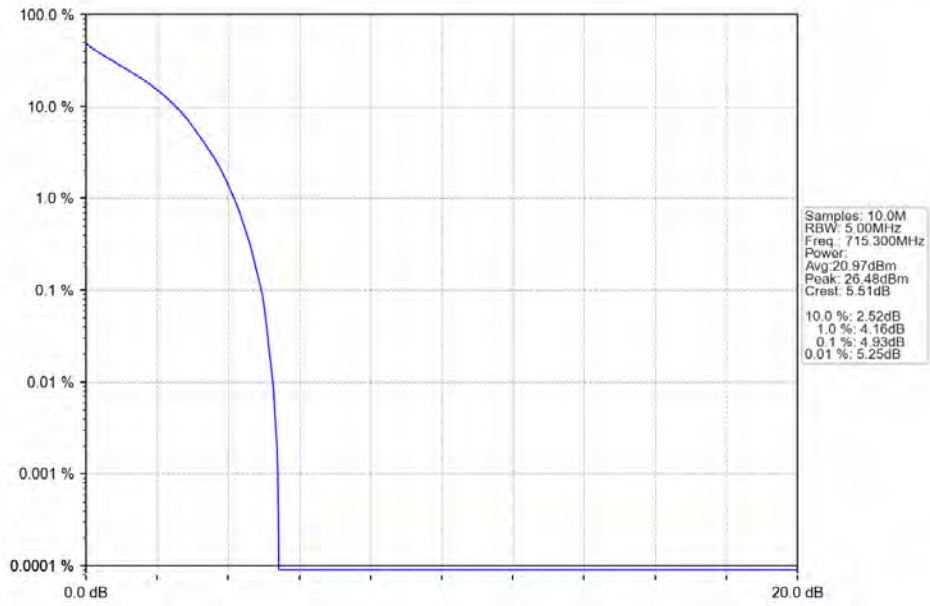
5.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	6	0	5.10	<=13	Pass
	707.5	6	0	4.74	<=13	Pass
	715.3	6	0	4.93	<=13	Pass
16QAM	699.7	6	0	5.73	<=13	Pass
	707.5	6	0	5.63	<=13	Pass
	715.3	6	0	5.65	<=13	Pass

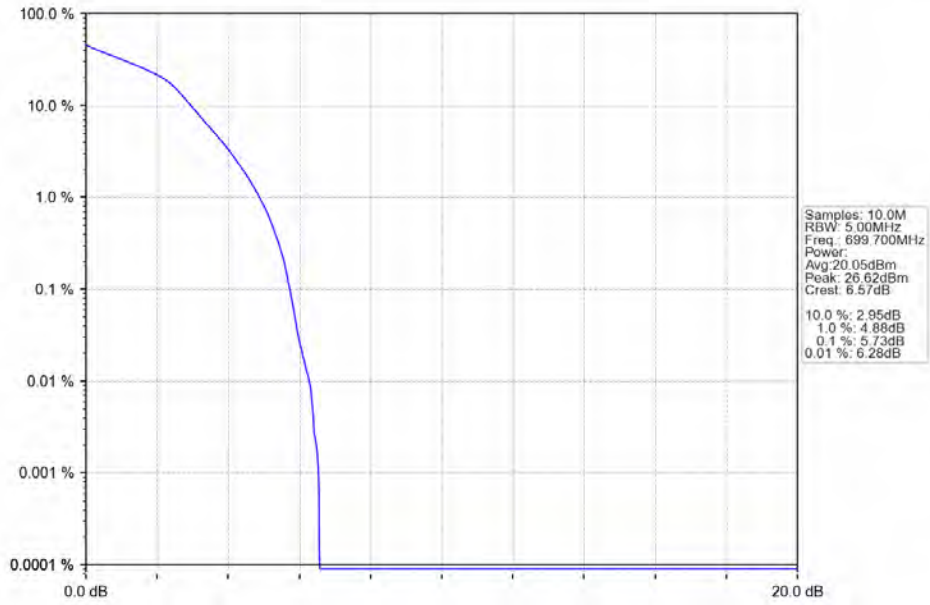
5.1.2 Test Graph



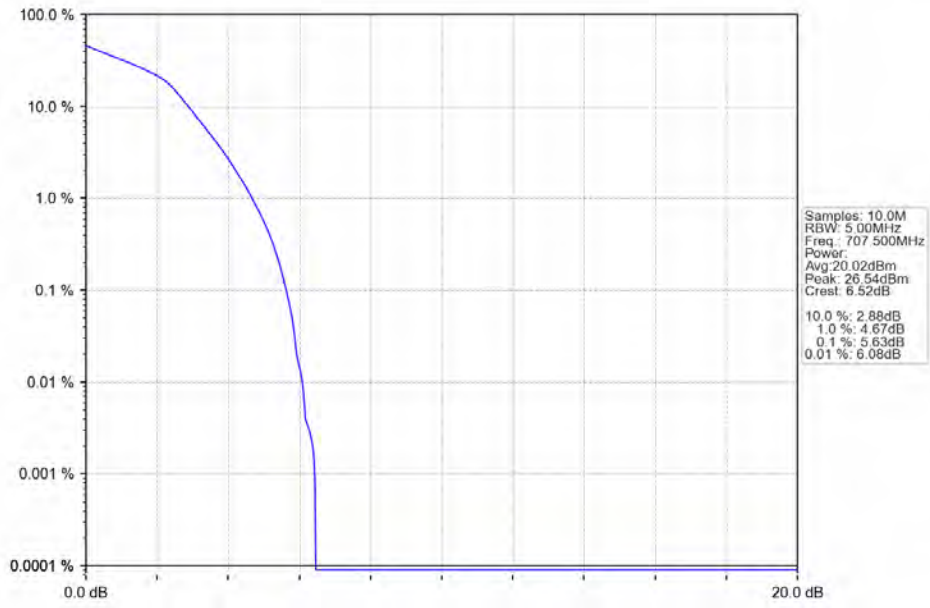
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



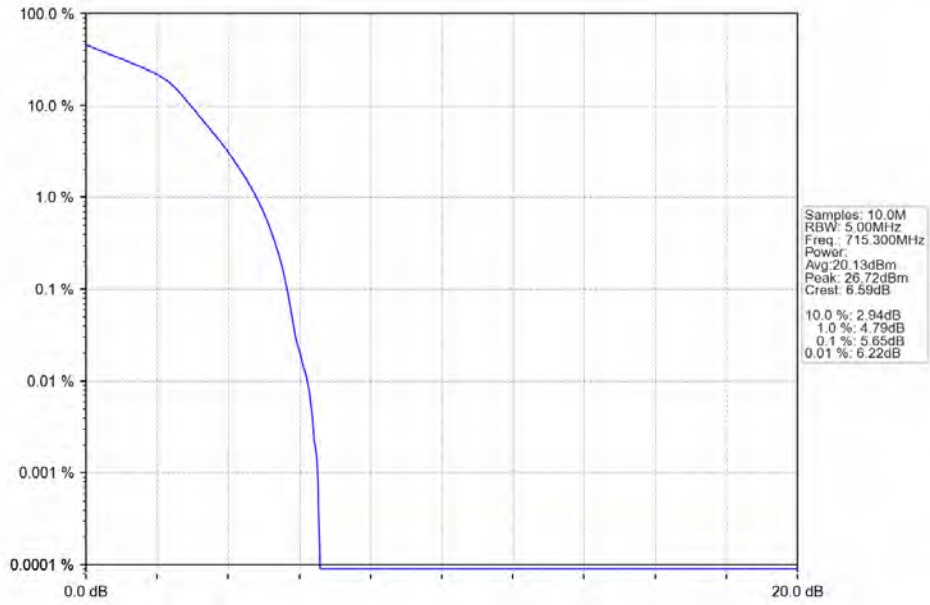
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV

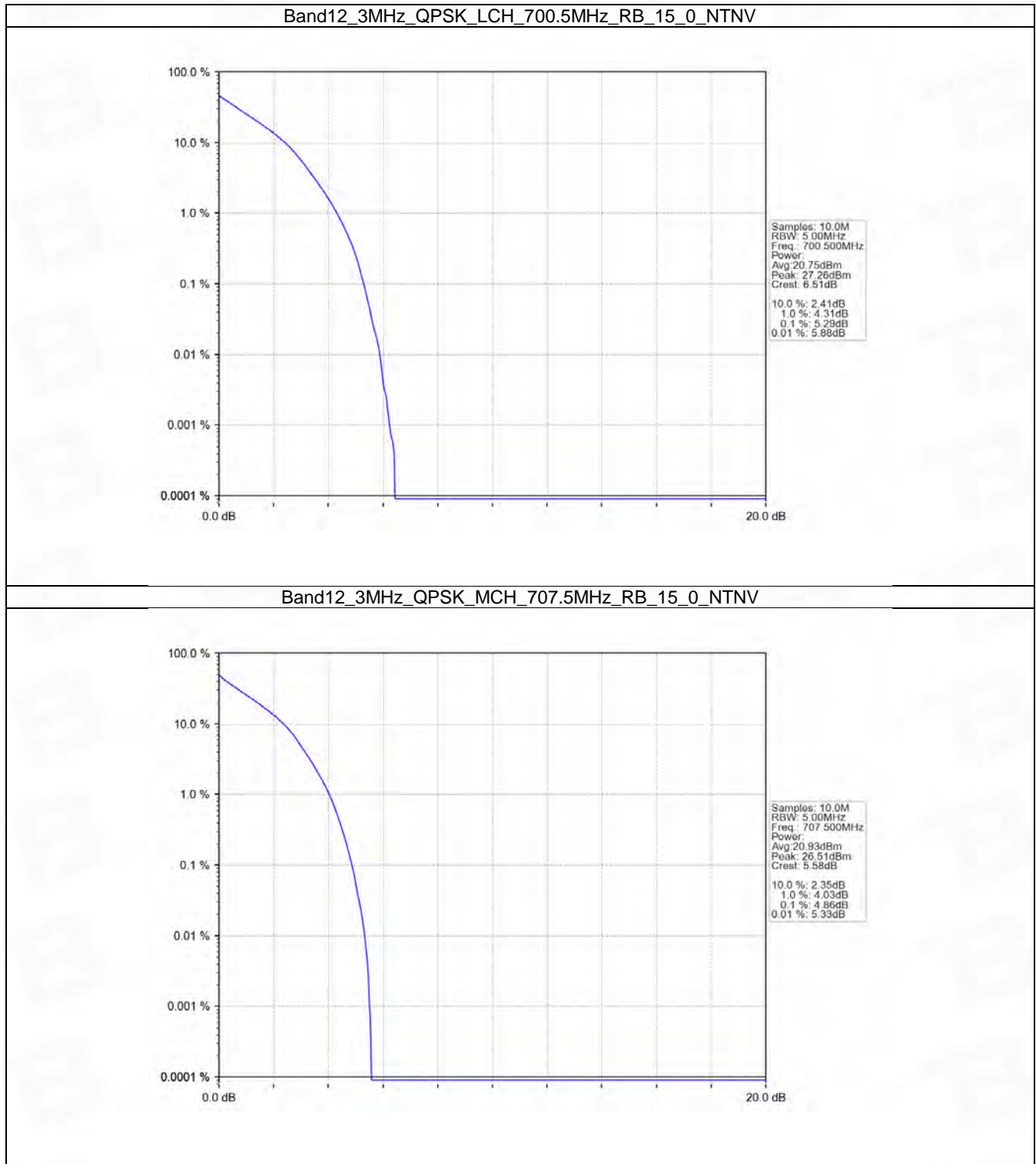


5.2 B12_3MHz

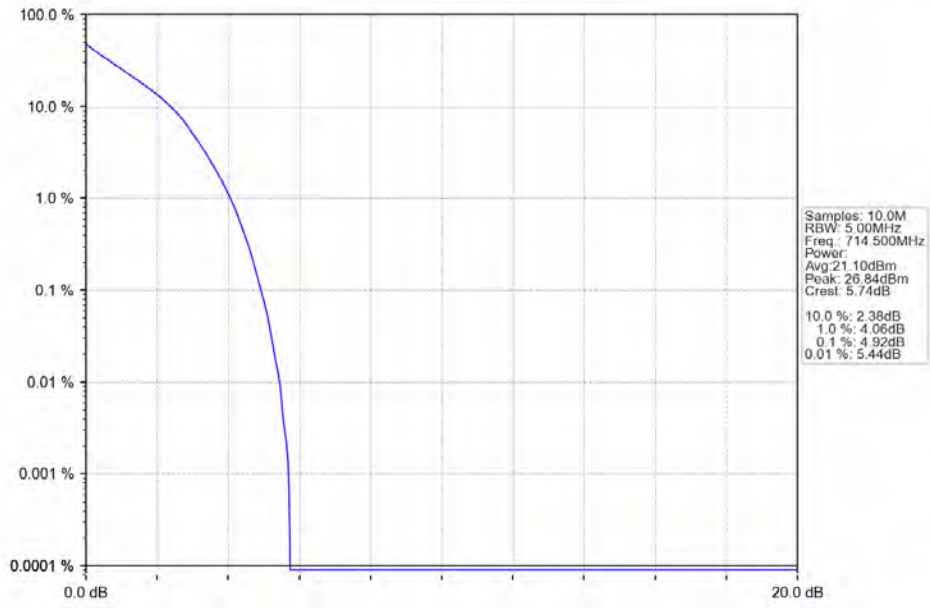
5.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	5.29	<=13	Pass
	707.5	15	0	4.86	<=13	Pass
	714.5	15	0	4.92	<=13	Pass
16QAM	700.5	15	0	6.04	<=13	Pass
	707.5	15	0	5.75	<=13	Pass
	714.5	15	0	5.75	<=13	Pass

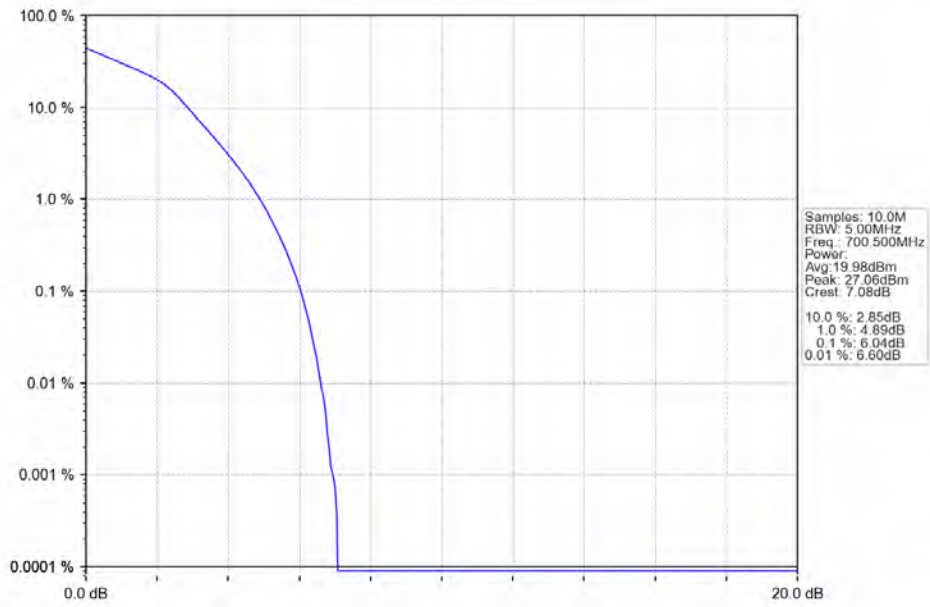
5.2.2 Test Graph



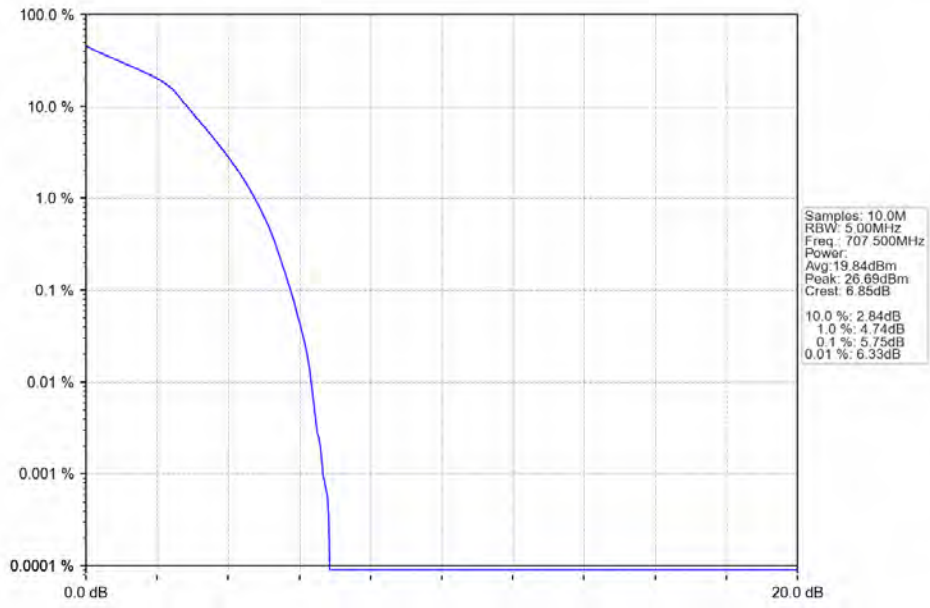
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



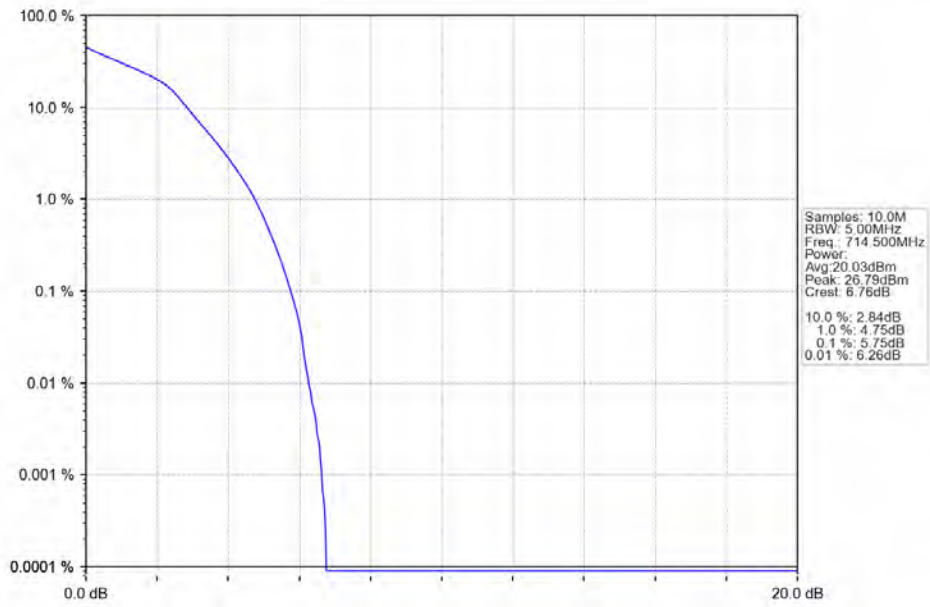
Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV

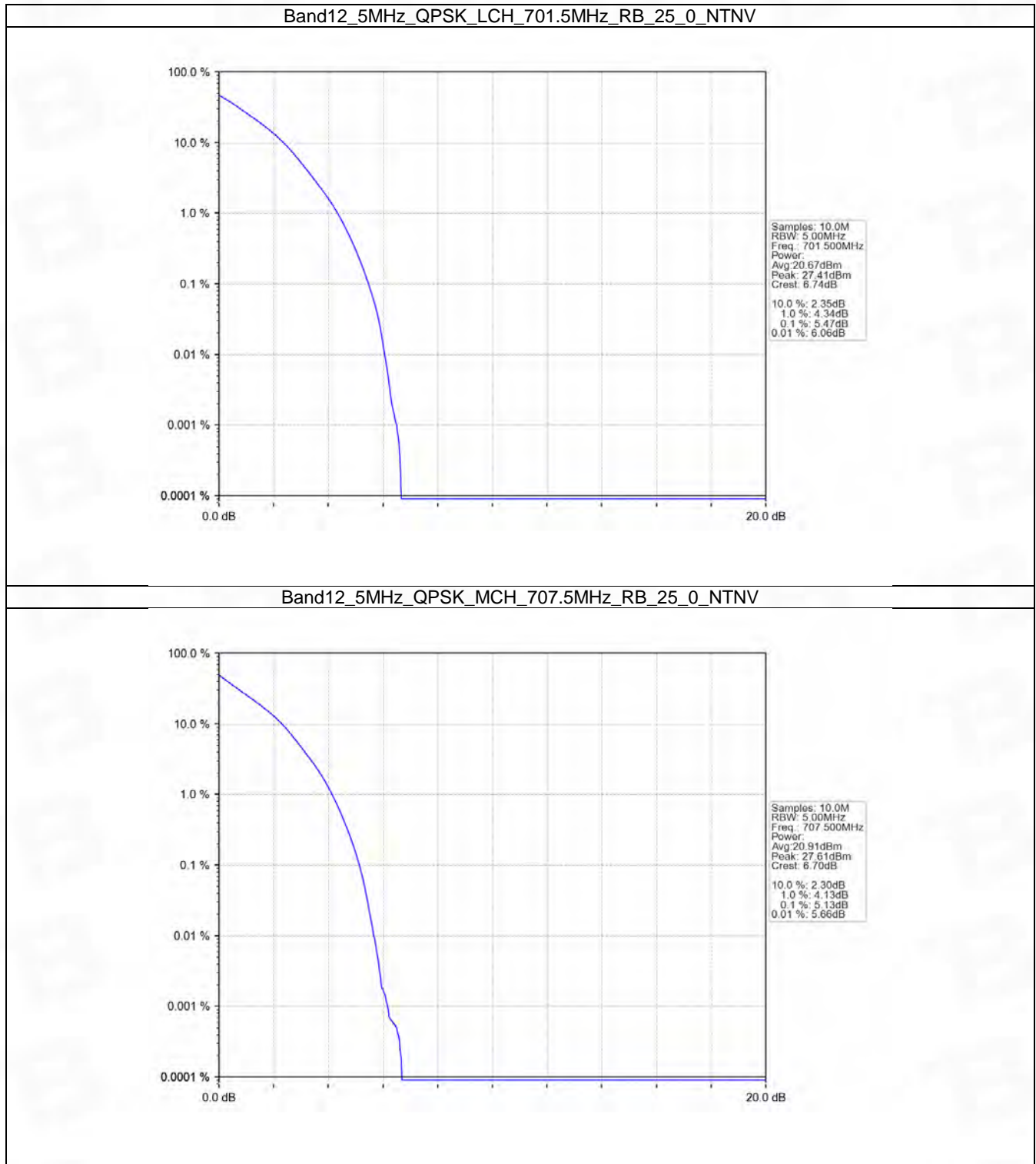


5.3 B12_5MHz

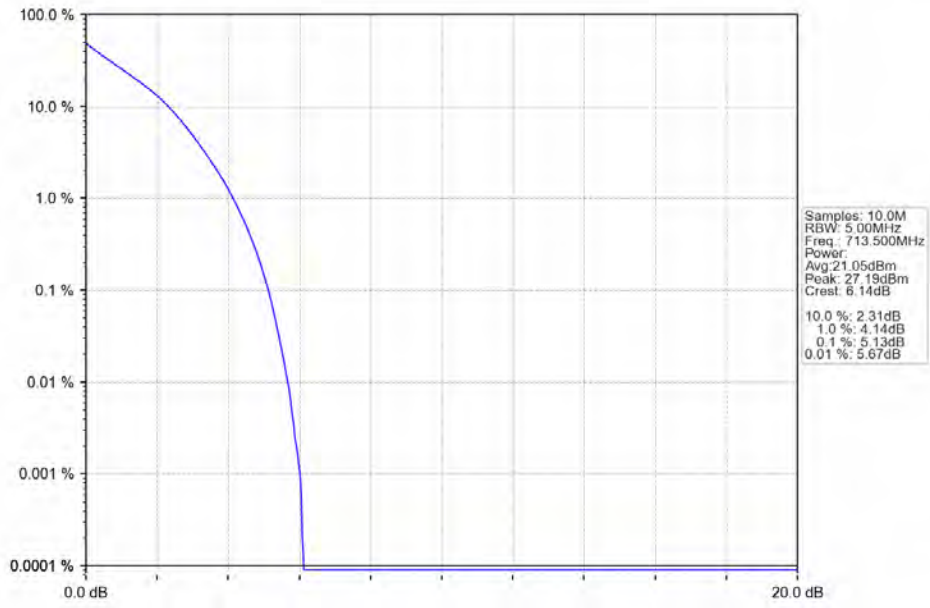
5.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	5.47	<=13	Pass
	707.5	25	0	5.13	<=13	Pass
	713.5	25	0	5.13	<=13	Pass
16QAM	701.5	25	0	6.21	<=13	Pass
	707.5	25	0	5.90	<=13	Pass
	713.5	25	0	5.79	<=13	Pass

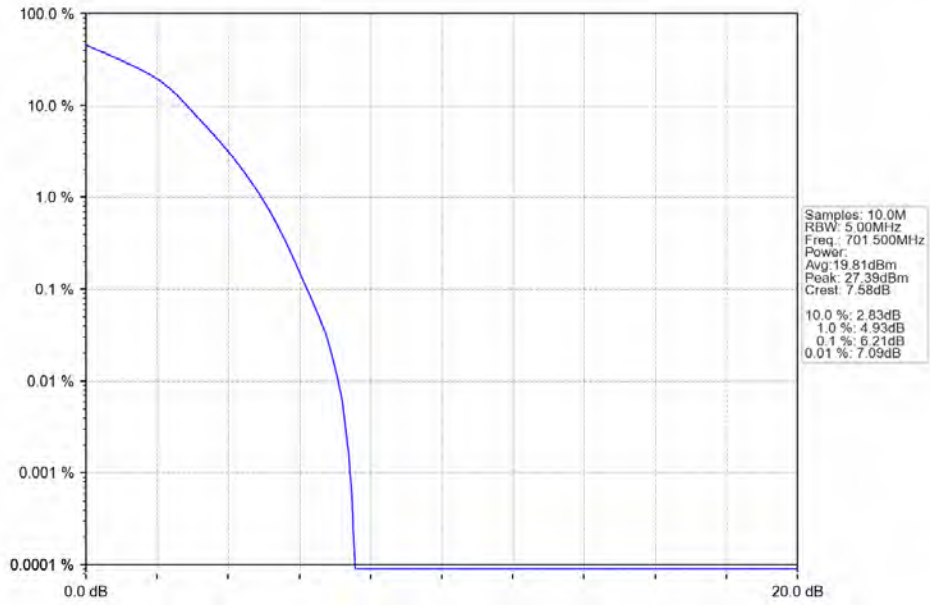
5.3.2 Test Graph



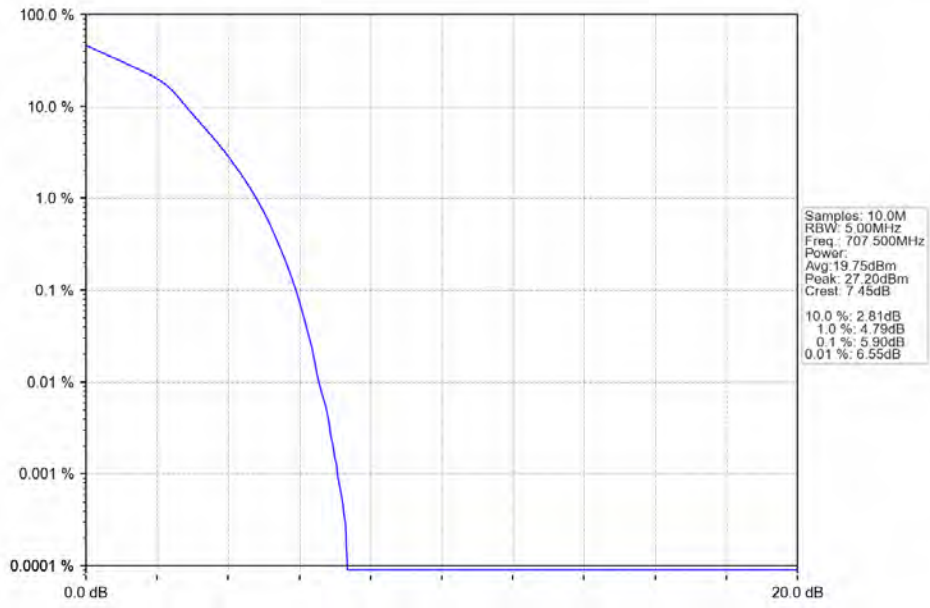
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



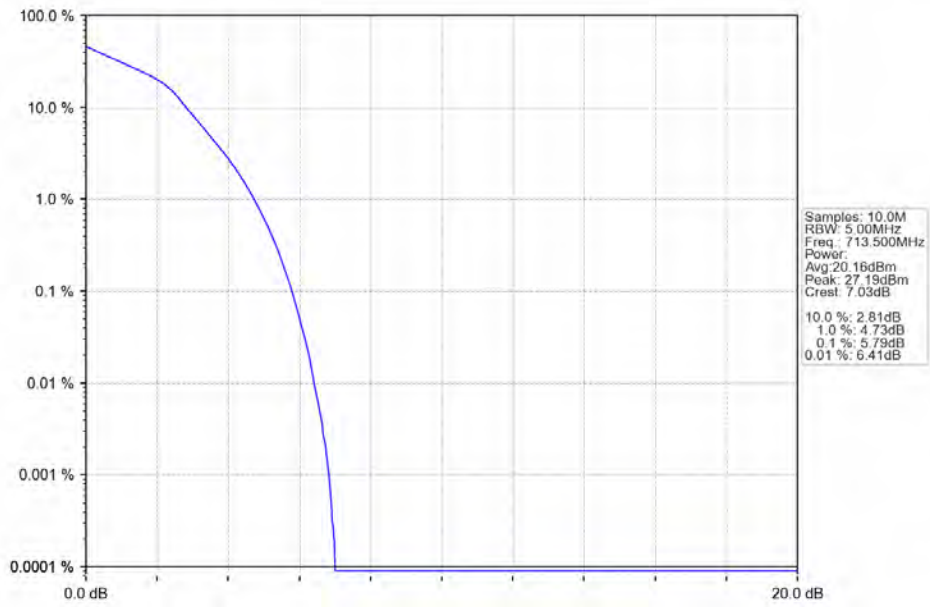
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

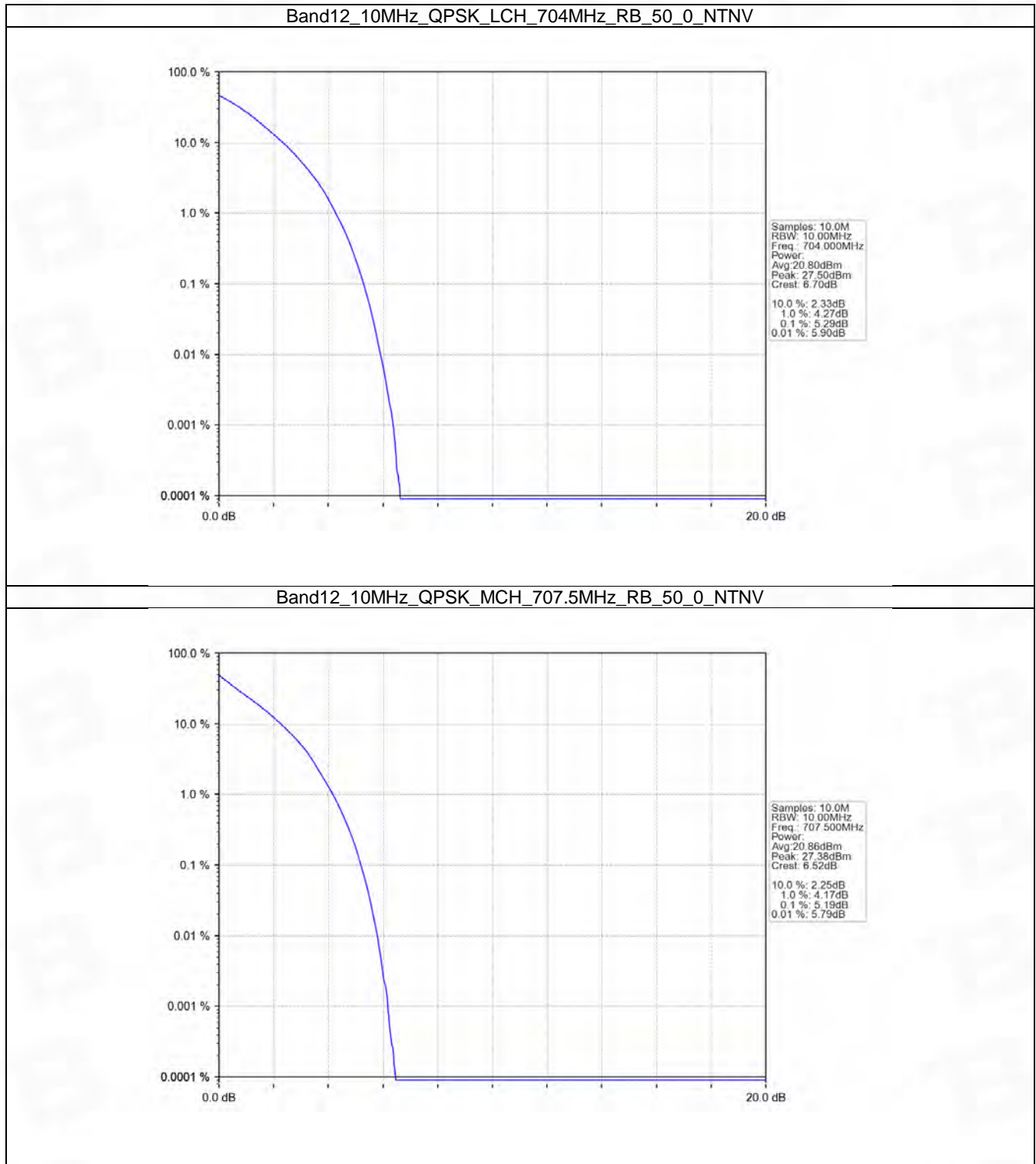


5.4 B12_10MHz

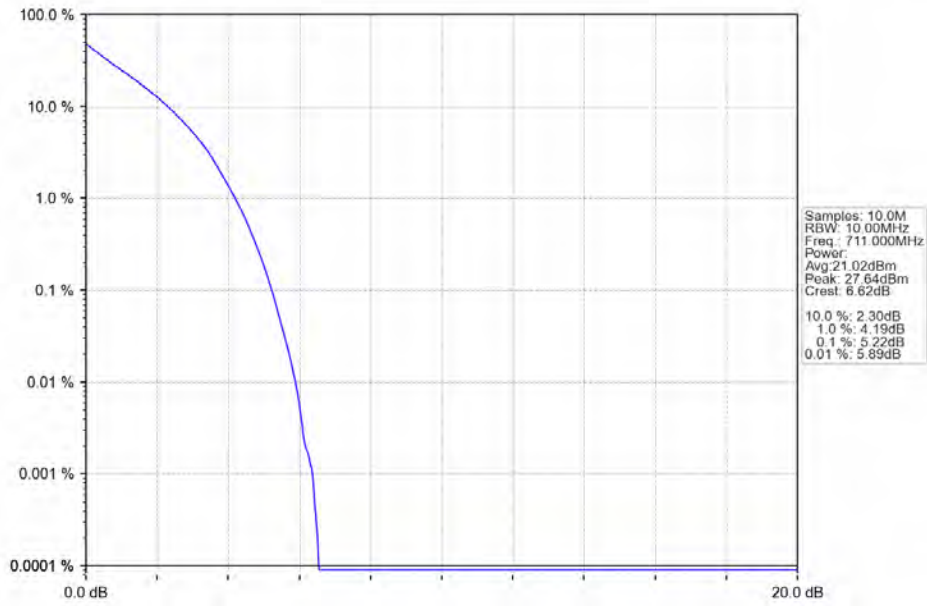
5.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	5.29	<=13	Pass
	707.5	50	0	5.19	<=13	Pass
	711	50	0	5.22	<=13	Pass
16QAM	704	50	0	6.09	<=13	Pass
	707.5	50	0	5.99	<=13	Pass
	711	50	0	5.86	<=13	Pass

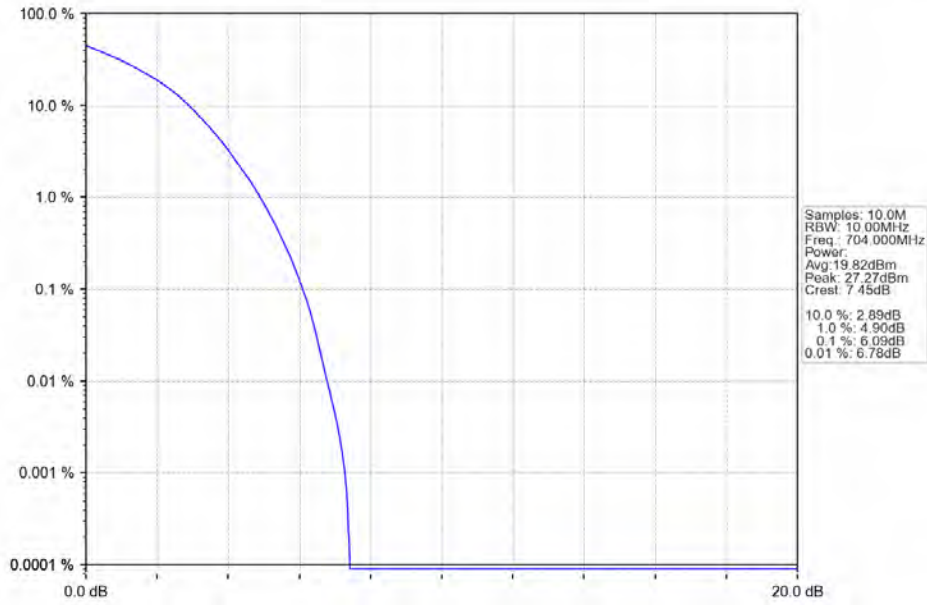
5.4.2 Test Graph



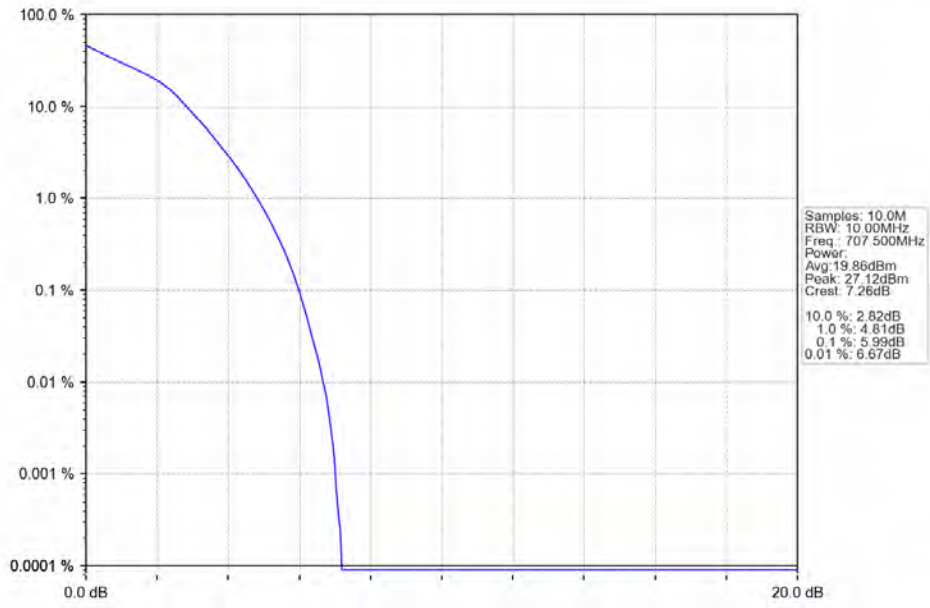
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



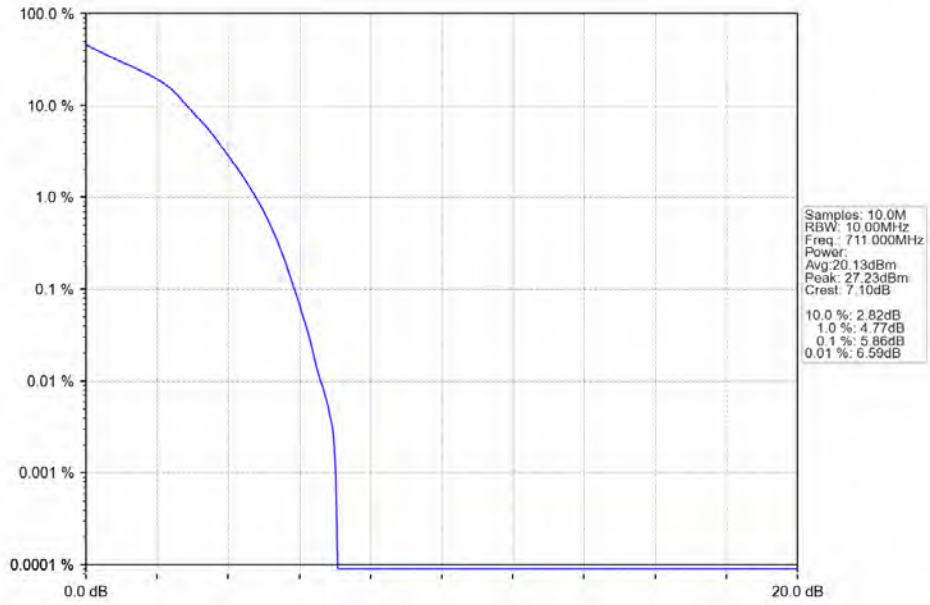
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



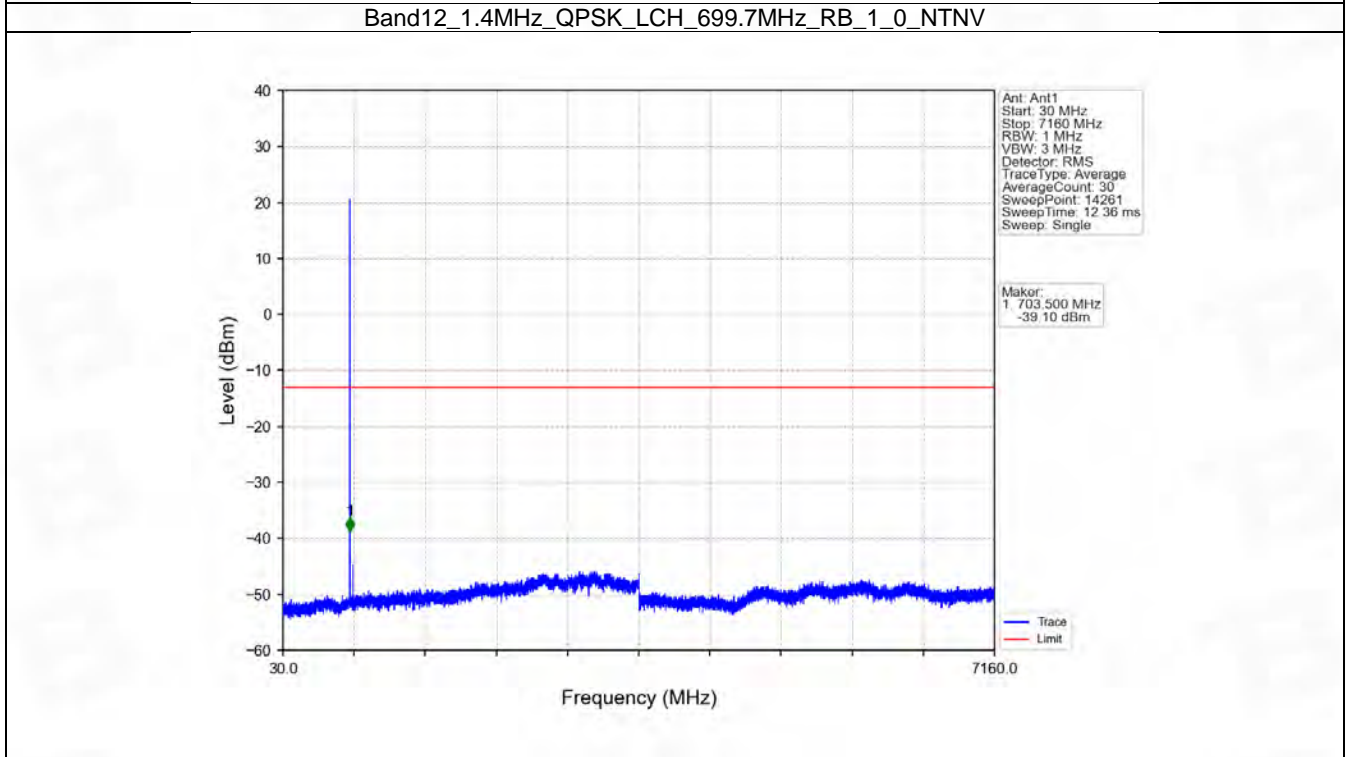
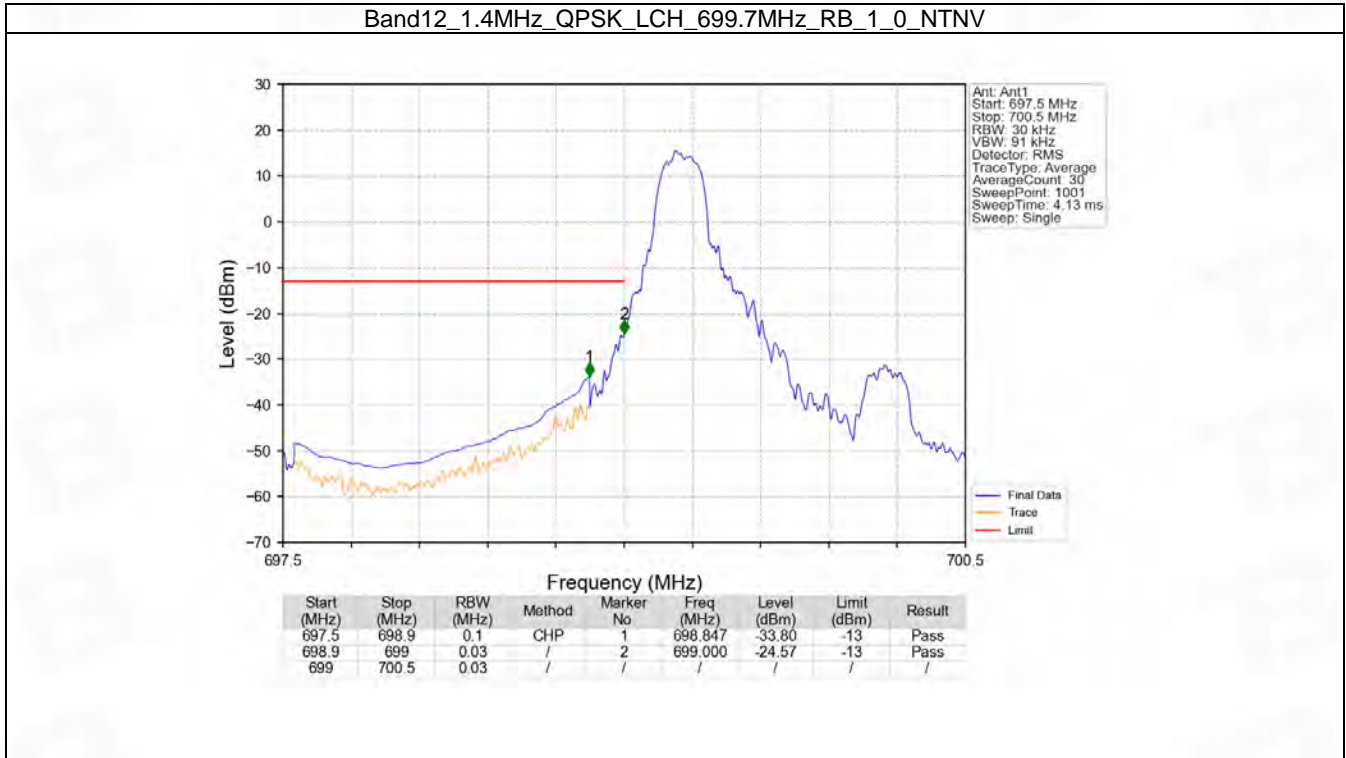
6. Spurious Emission

6.1 B12_1.4MHz

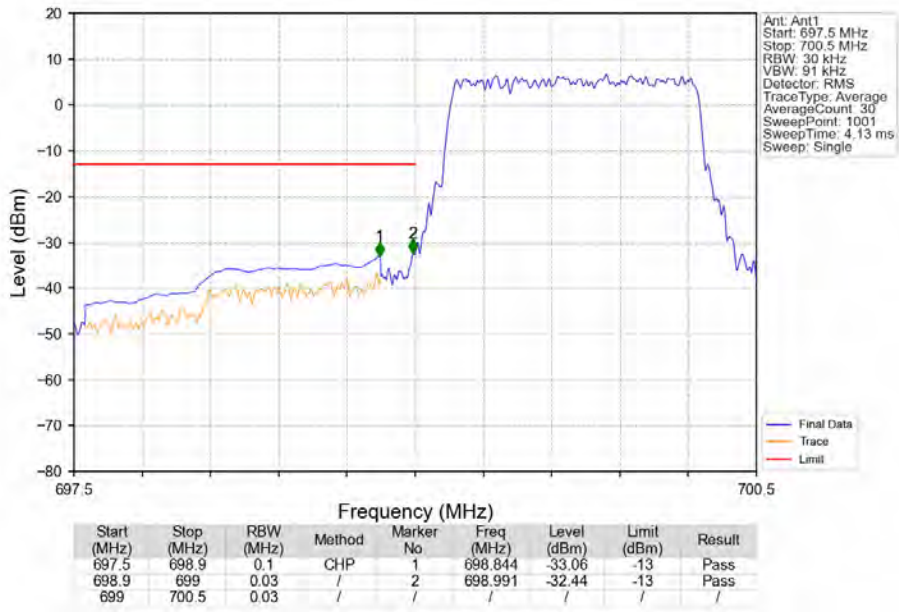
6.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTN						
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	
				5	Refer To Test Graph	
			6	0	Refer To Test Graph	
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	
				5	Refer To Test Graph	
			6	0	Refer To Test Graph	

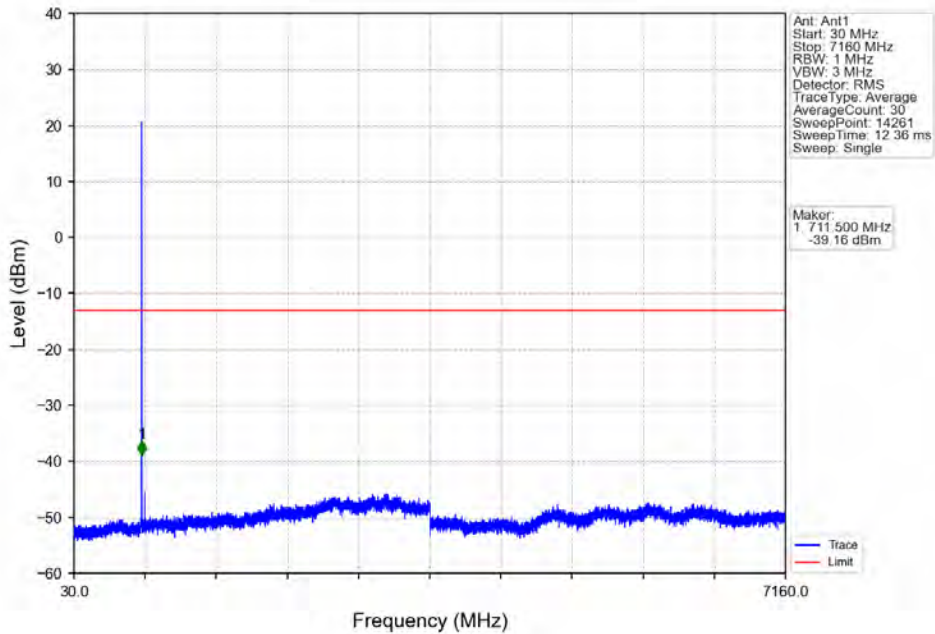
6.1.2 Test Graph



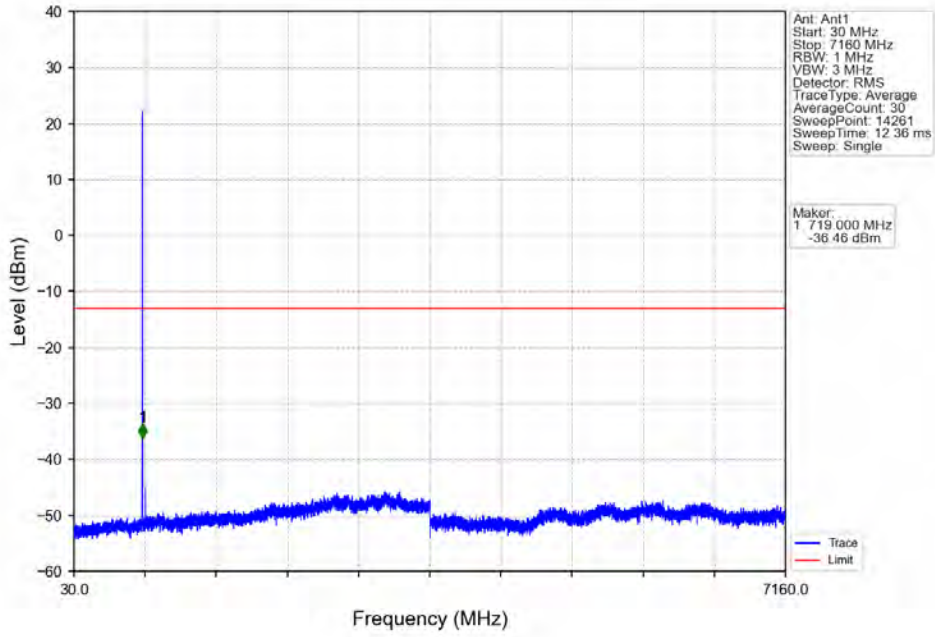
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



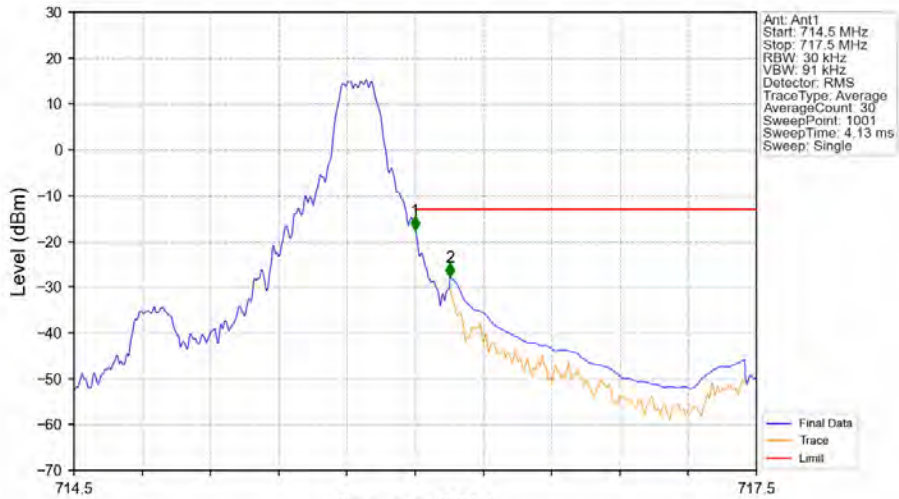
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV

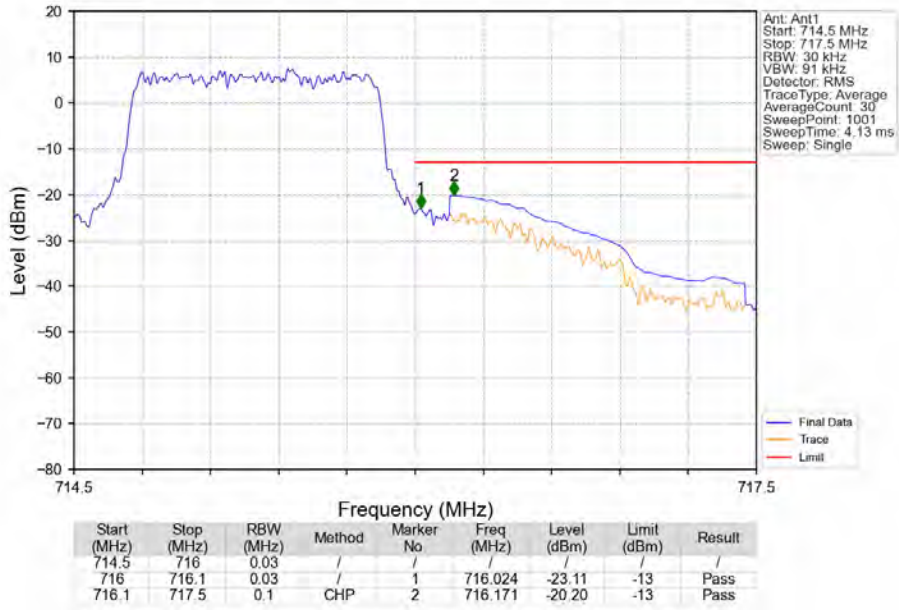


Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_5_NTNV

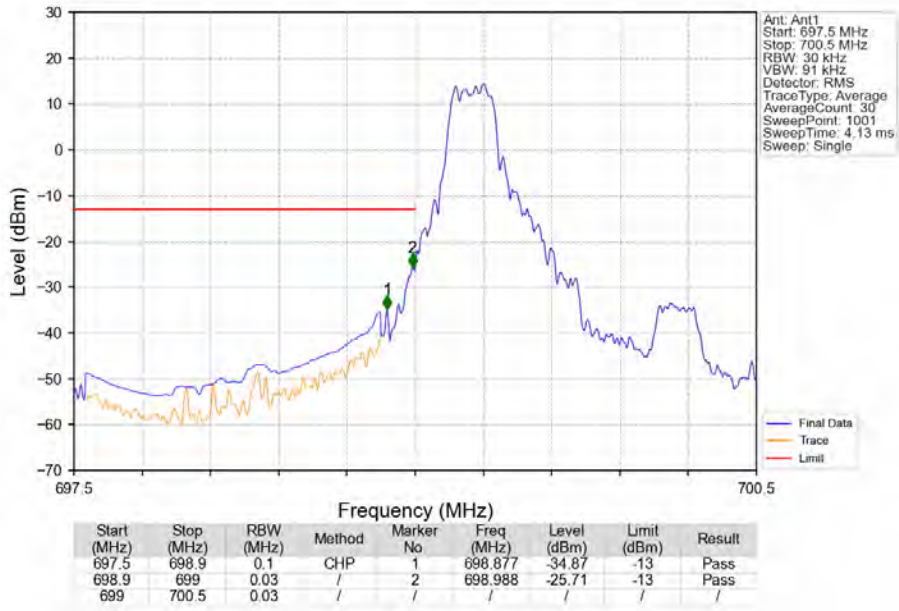


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	1	716.000	-17.63	-13	Pass
716	716.1	0.03	CHP	2	716.153	-27.90	-13	Pass

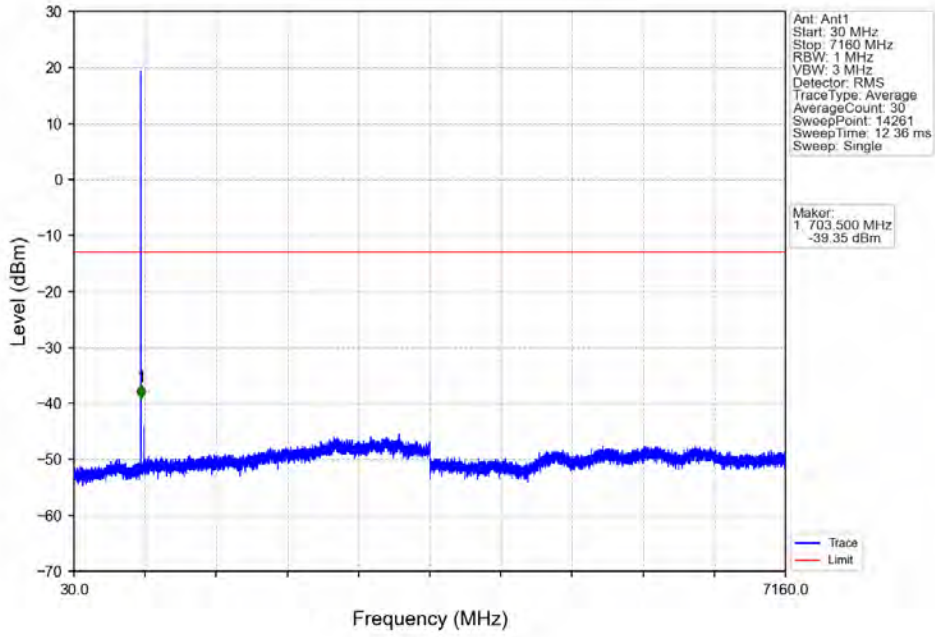
Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTV



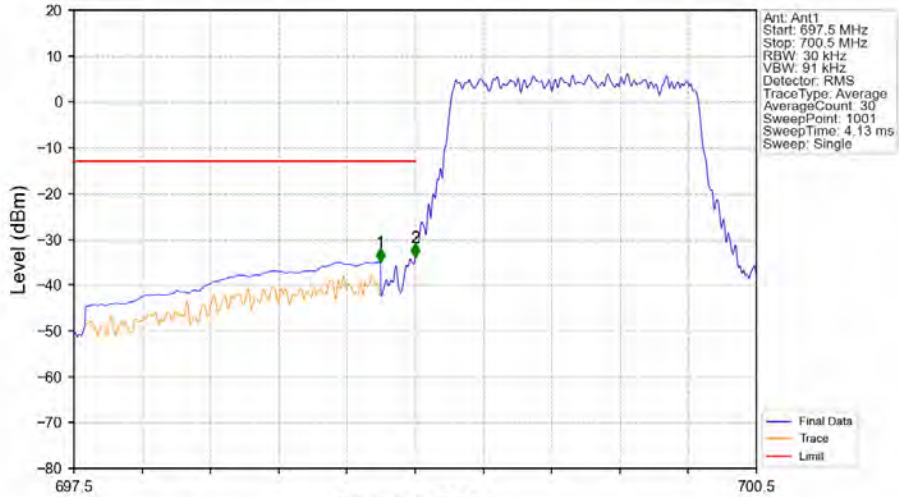
Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTV



Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV

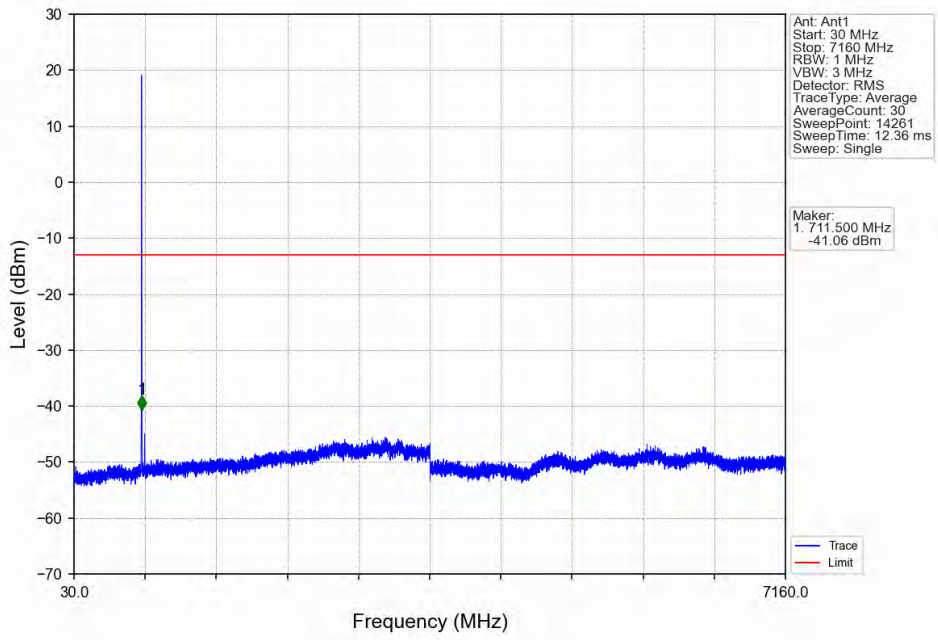


Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV

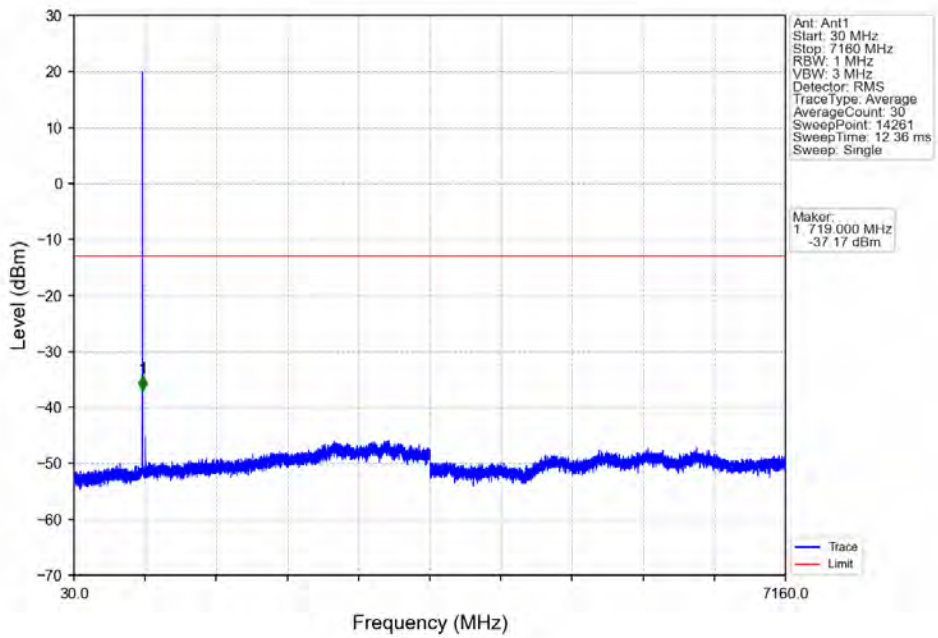


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-34.97	-13	Pass
698.9	699	0.03	/	2	699.000	-33.92	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

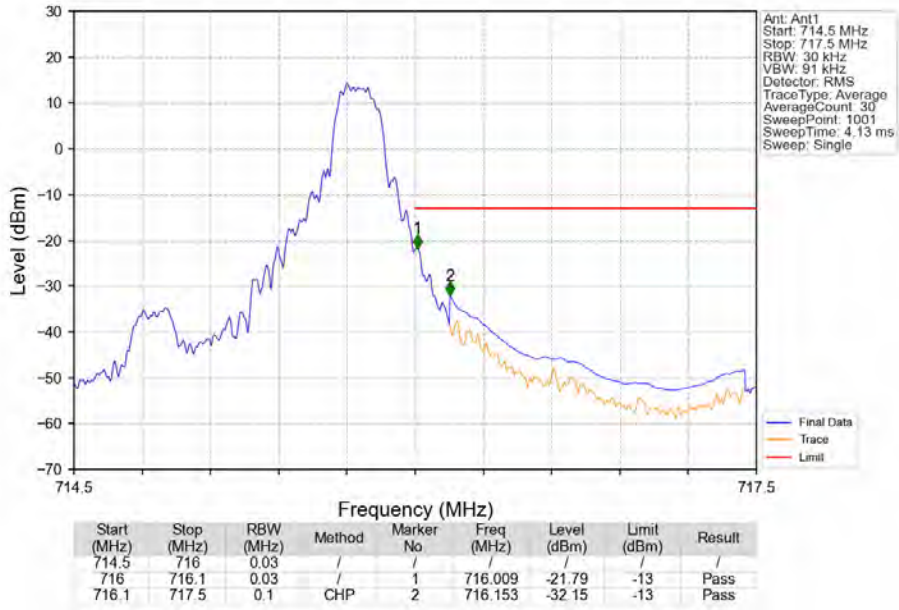
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



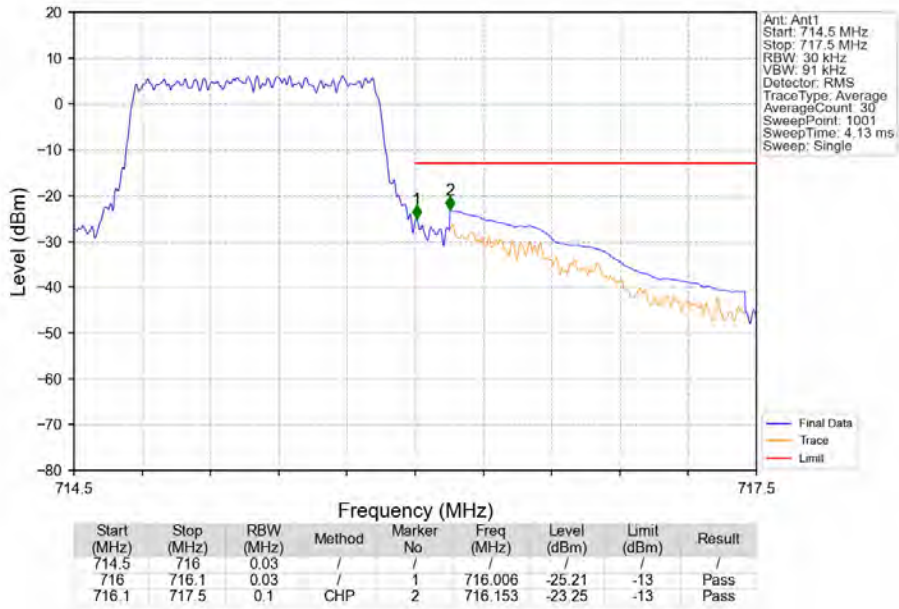
Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_1_0_NTNV



Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_1_5_NTNV



Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_6_0_NTNV

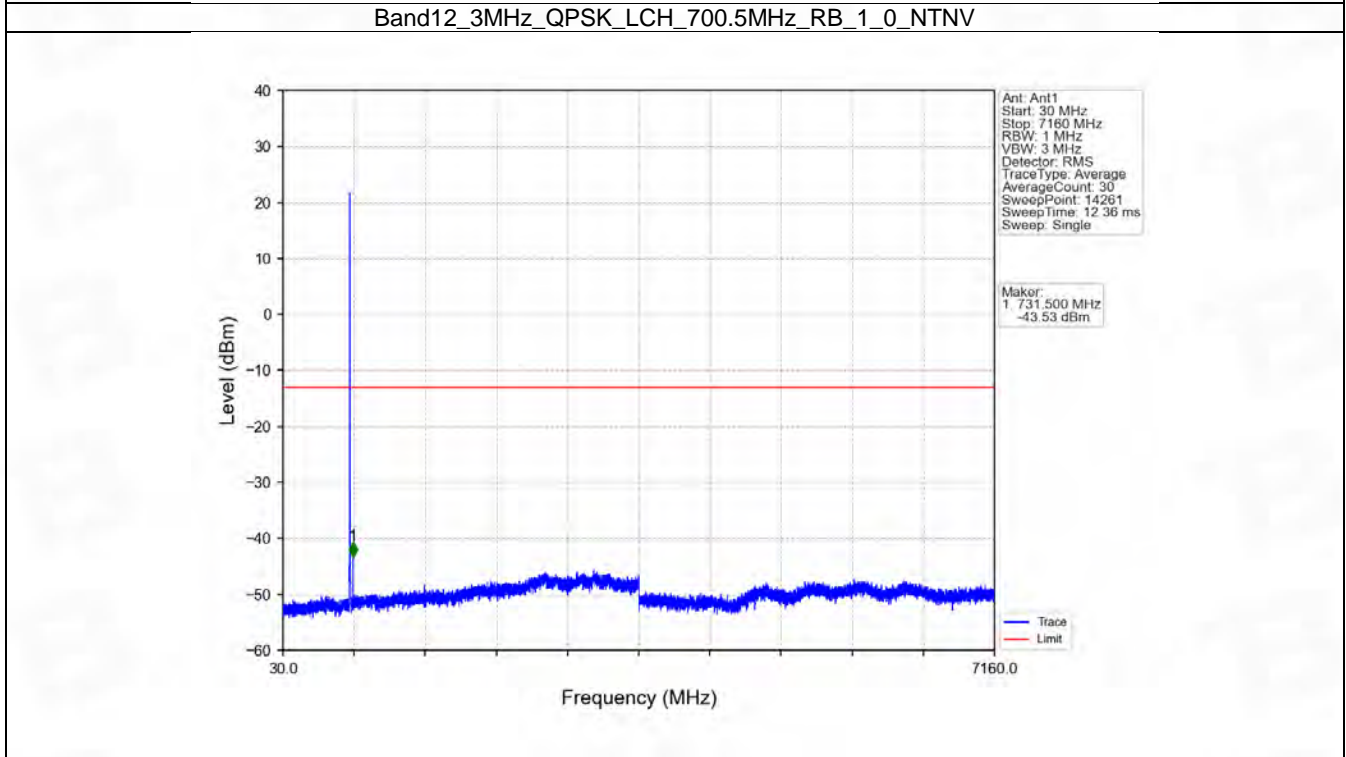
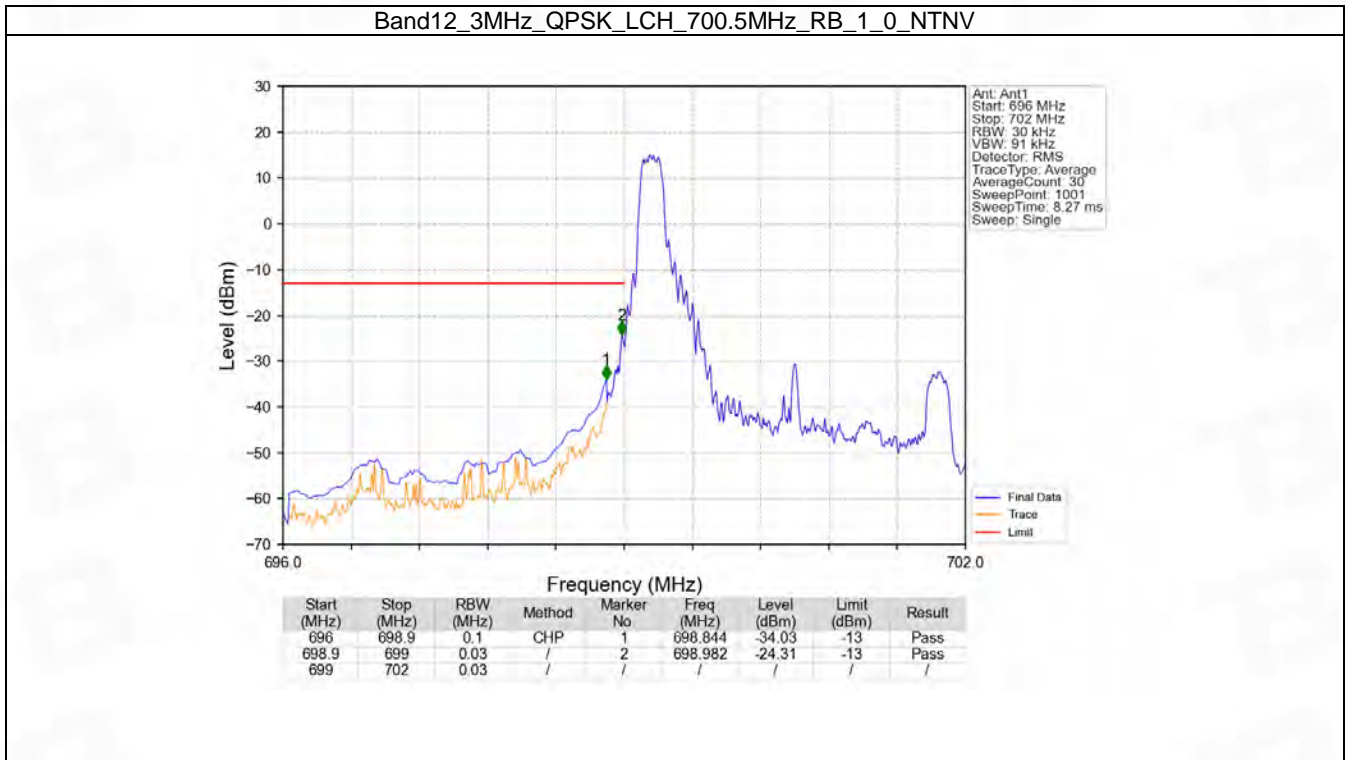


6.2 B12_3MHz

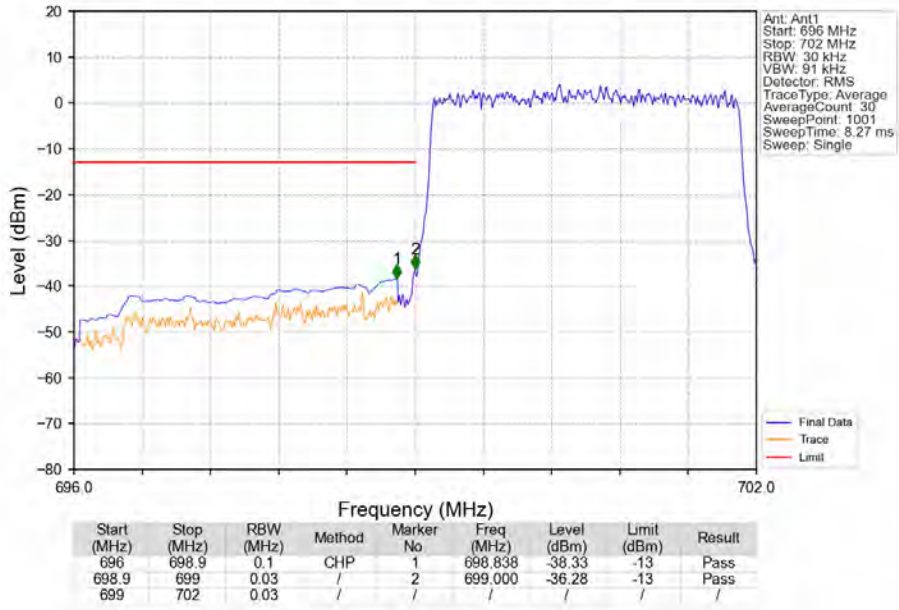
6.2.1 Test Result

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

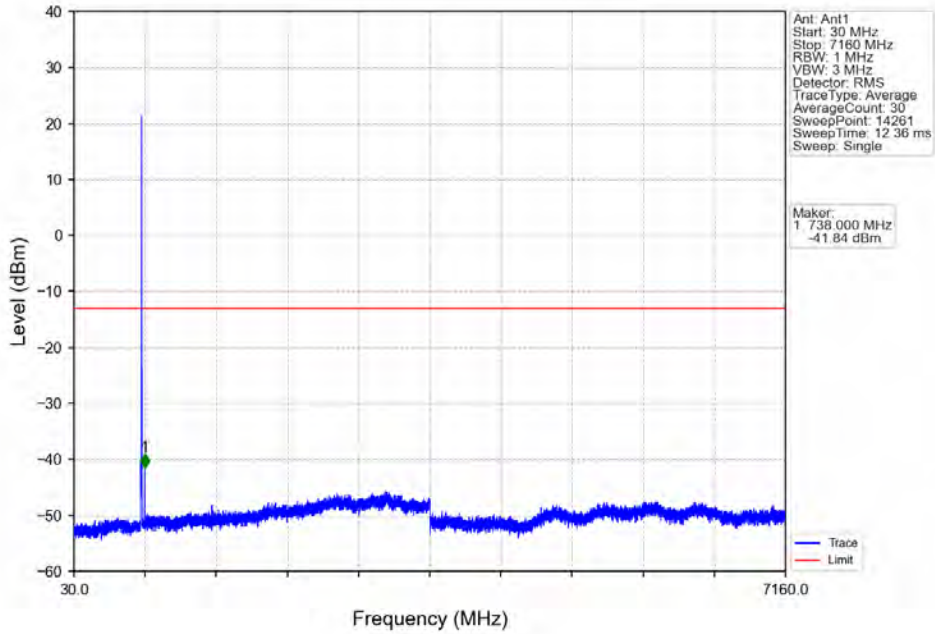
6.2.2 Test Graph



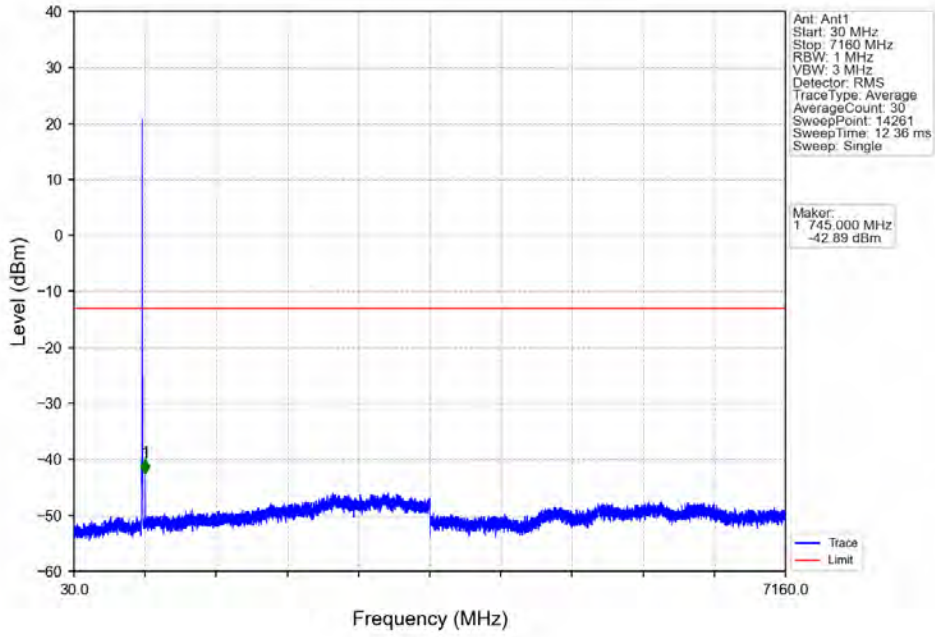
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



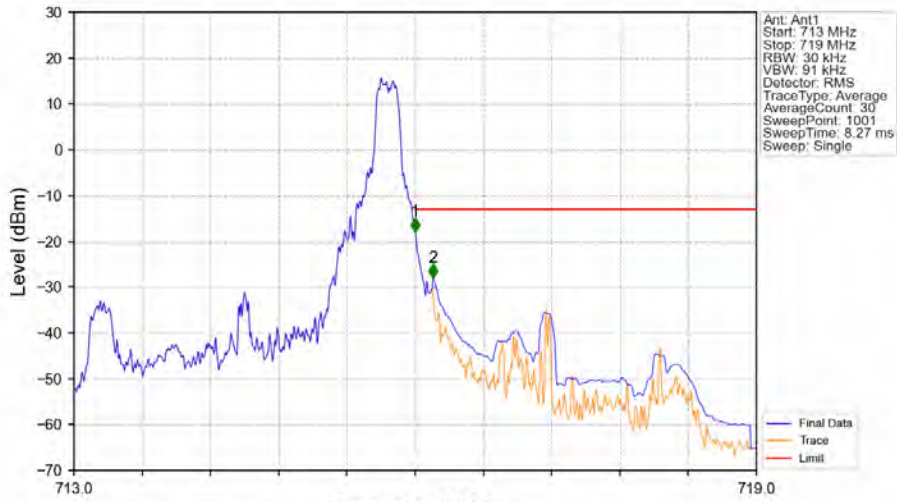
Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_0_NTNV

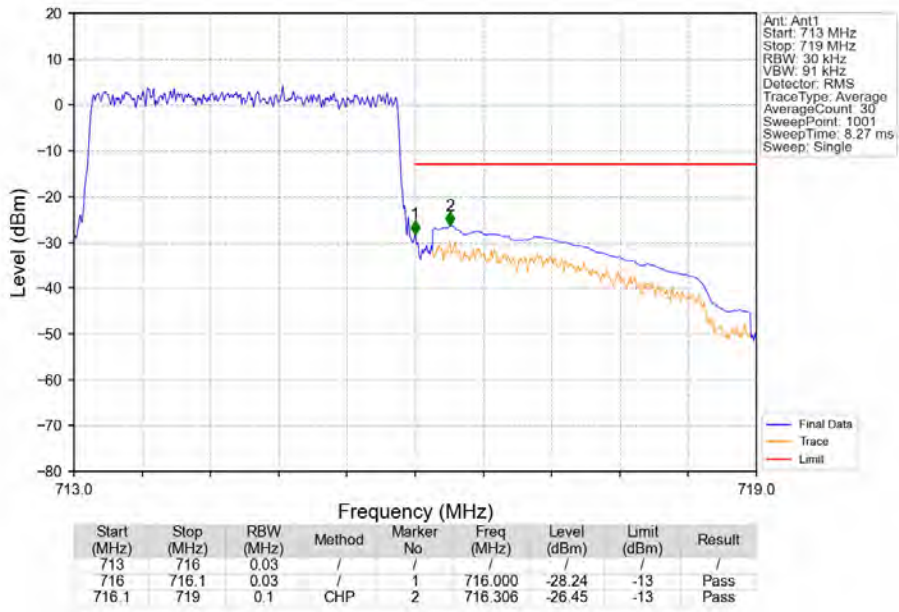


Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_14_NTNV

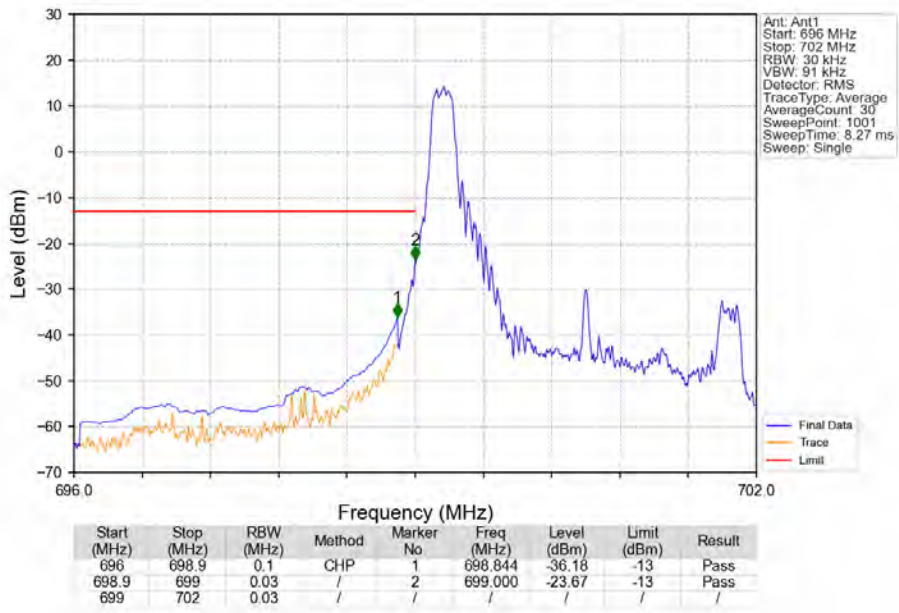


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	1	716.000	-17.90	-13	Pass
716	716.1	0.03	CHP	2	716.156	-27.96	-13	Pass

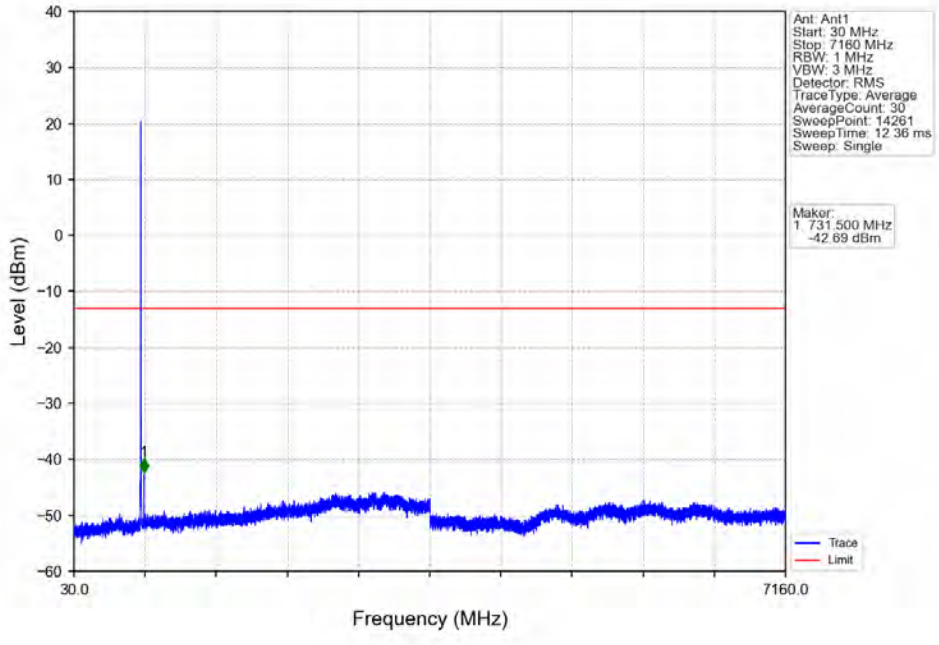
Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



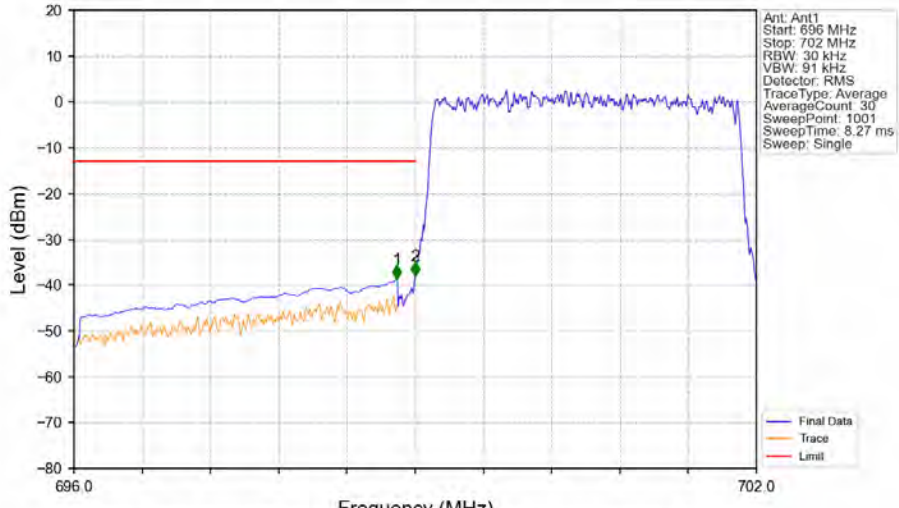
Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV



Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV

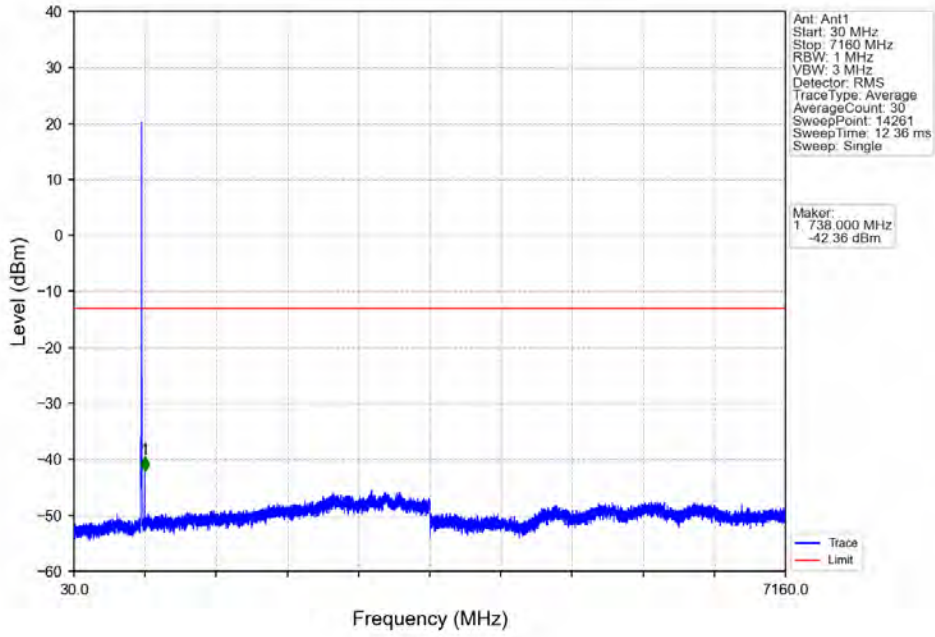


Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV

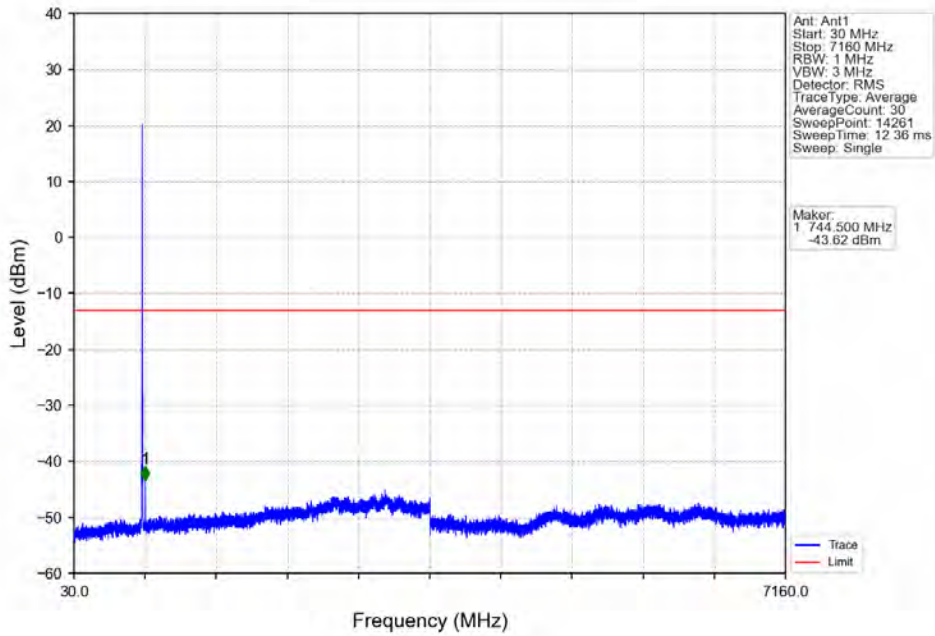


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.838	-38.79	-13	Pass
698.9	699	0.03	/	2	699.000	-38.08	-13	Pass
699	702	0.03	/	/	/	/	/	/

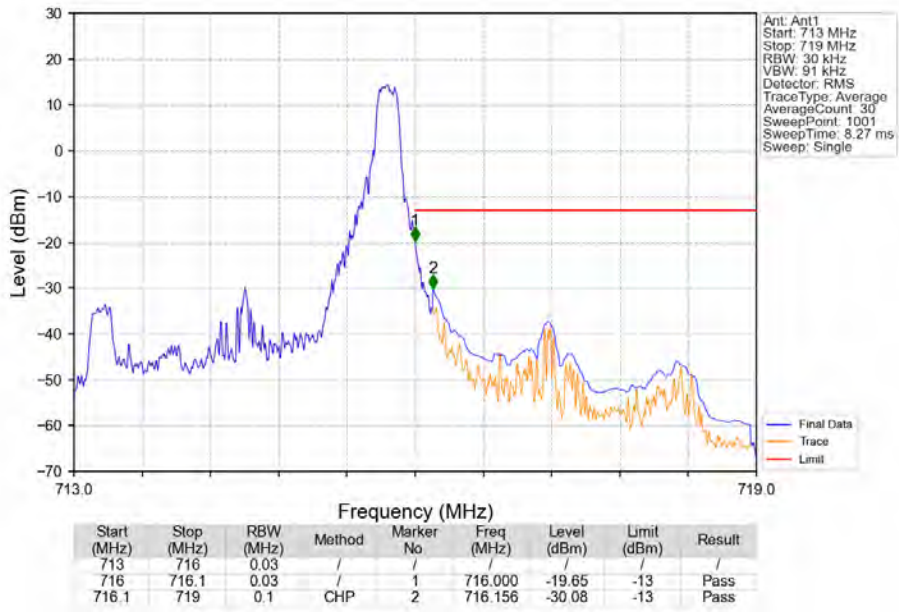
Band12_3MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



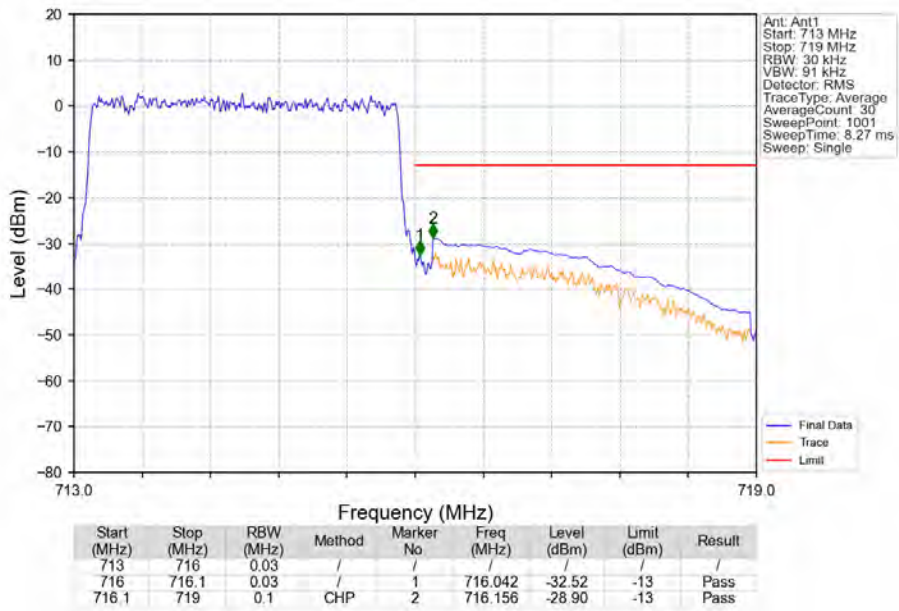
Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_0_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_14_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV

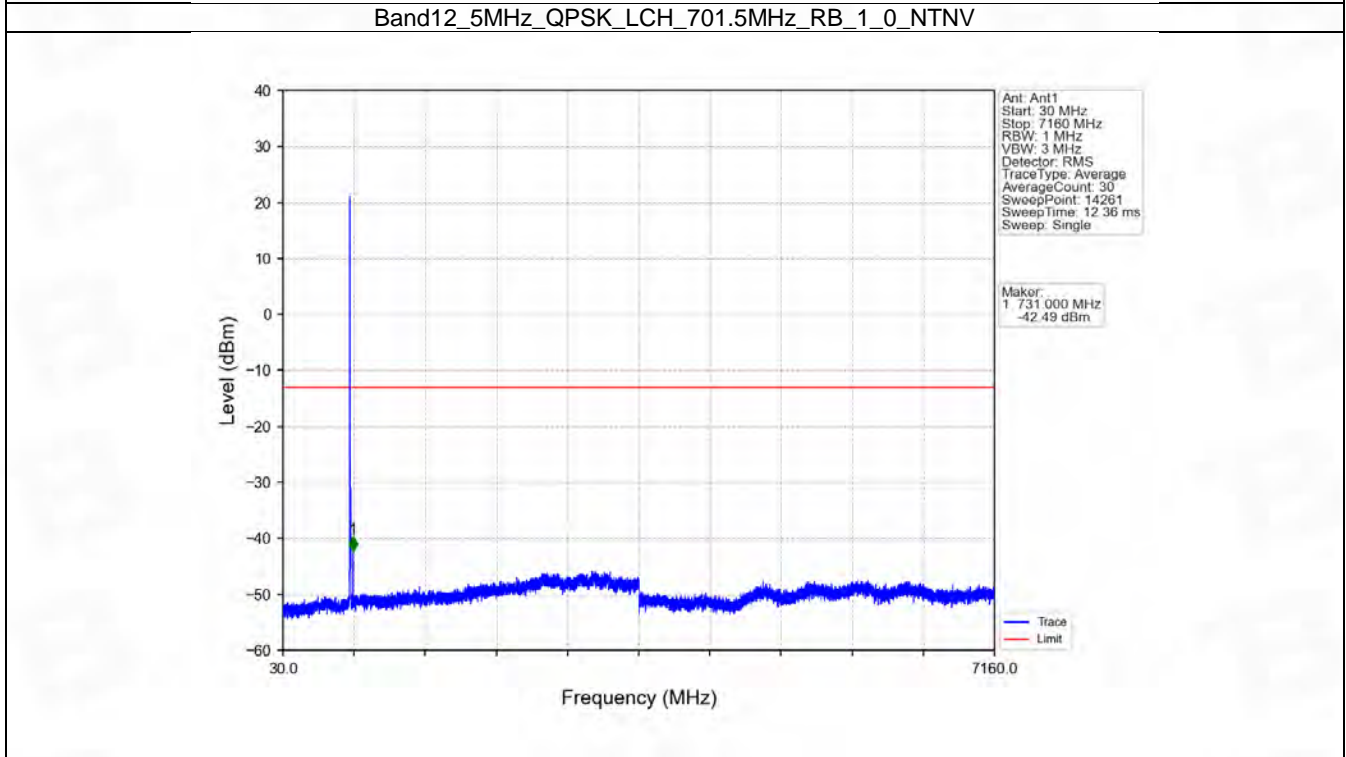
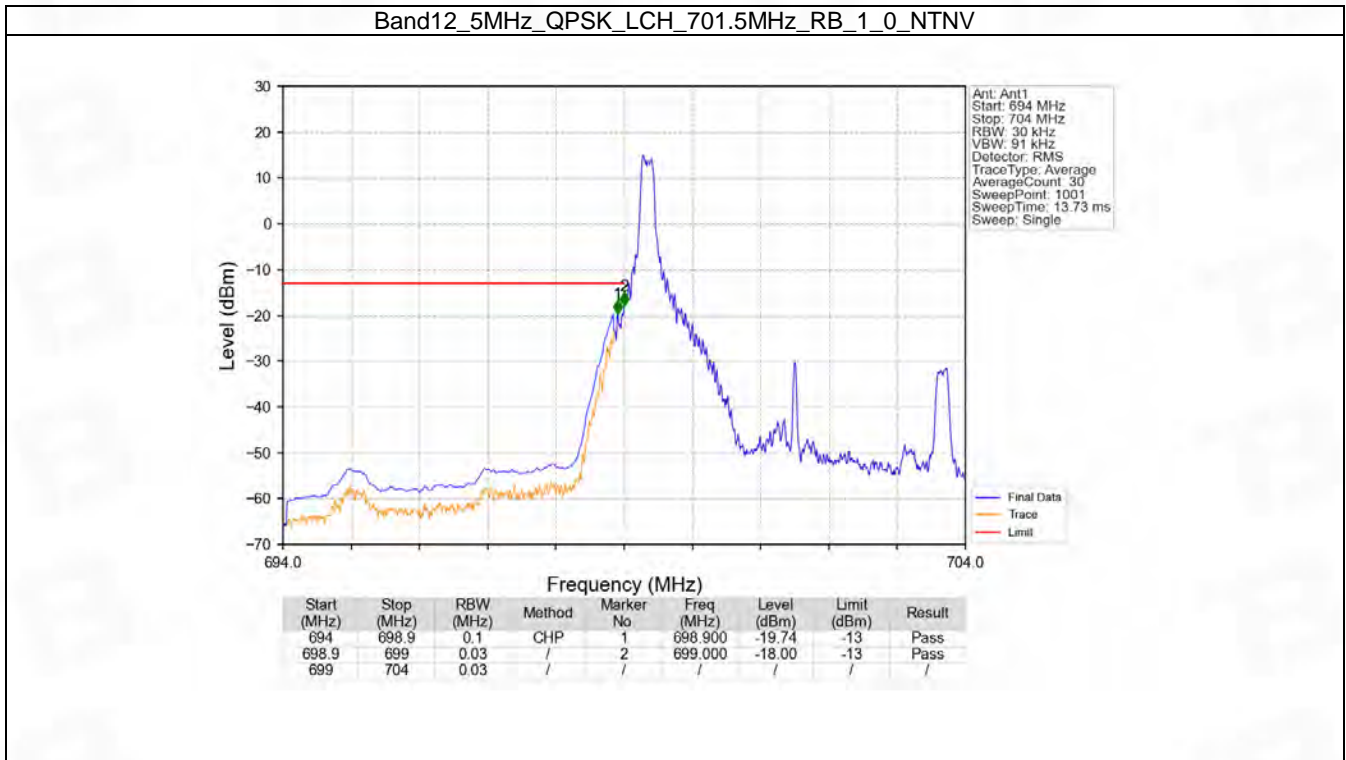


6.3 B12_5MHz

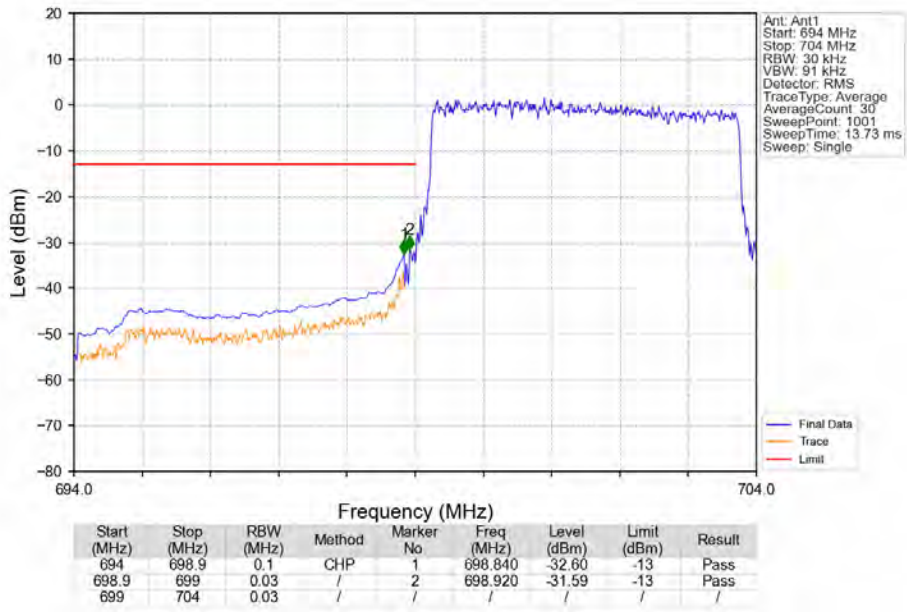
6.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTV						
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
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass
16QAM	701.5	1	0	Refer To Test Graph		Pass
		25	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
			0	Refer To Test Graph		Pass

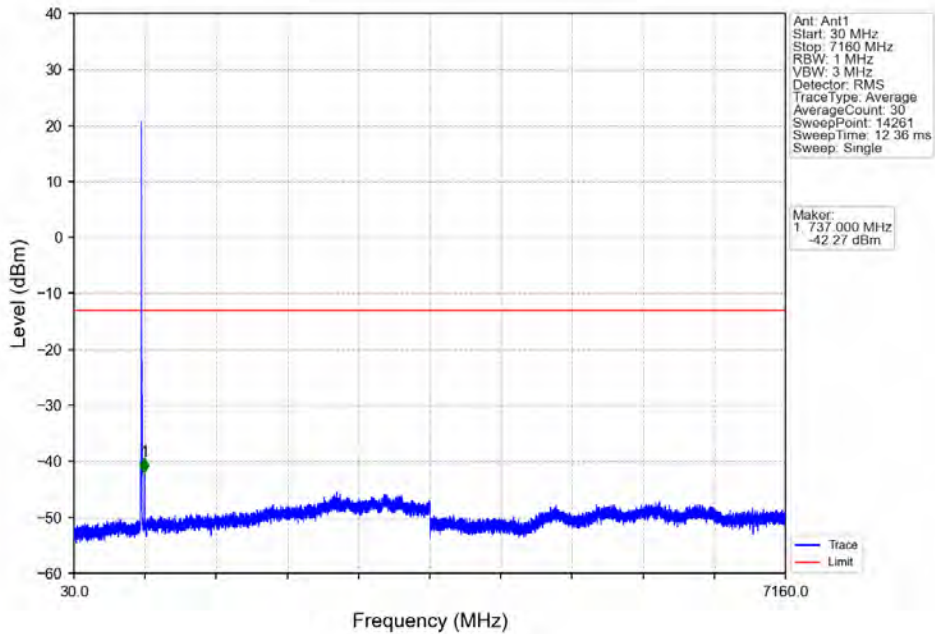
6.3.2 Test Graph



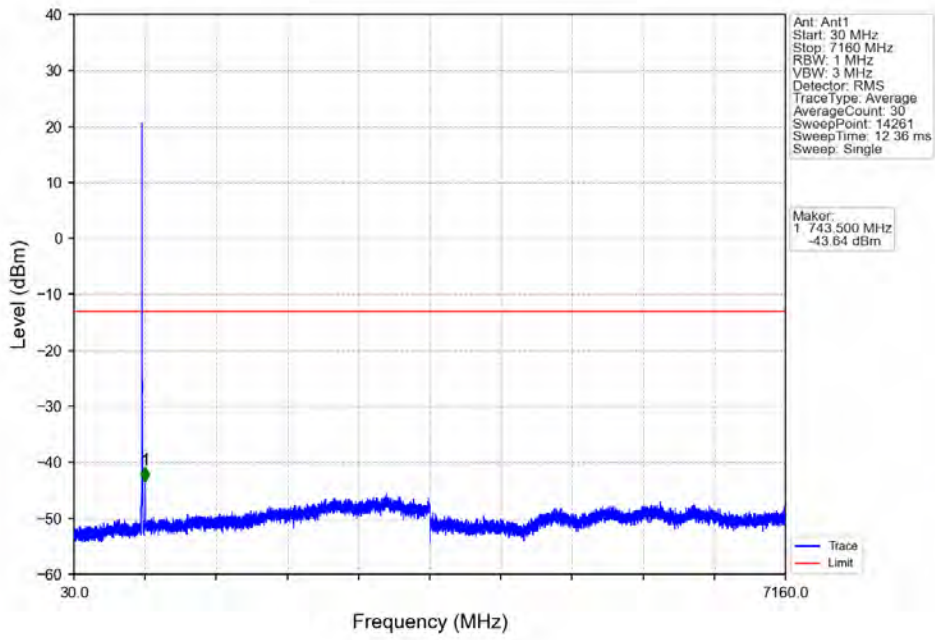
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



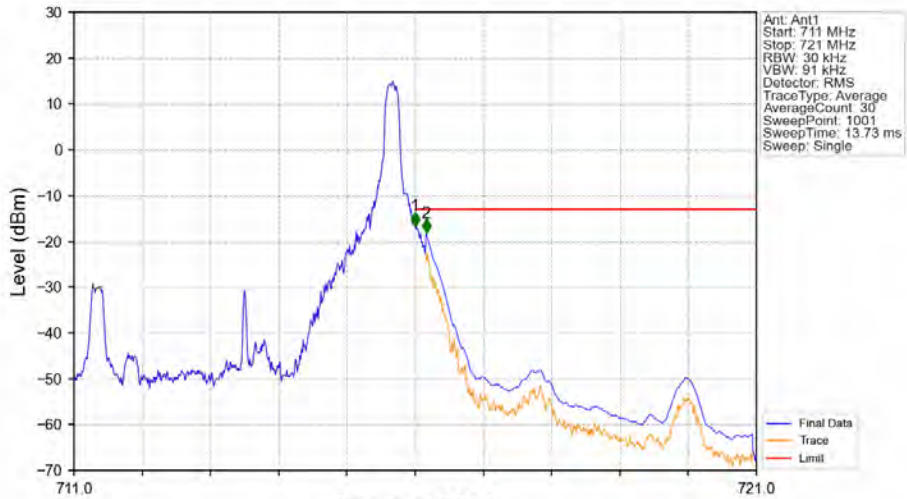
Band12_5MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

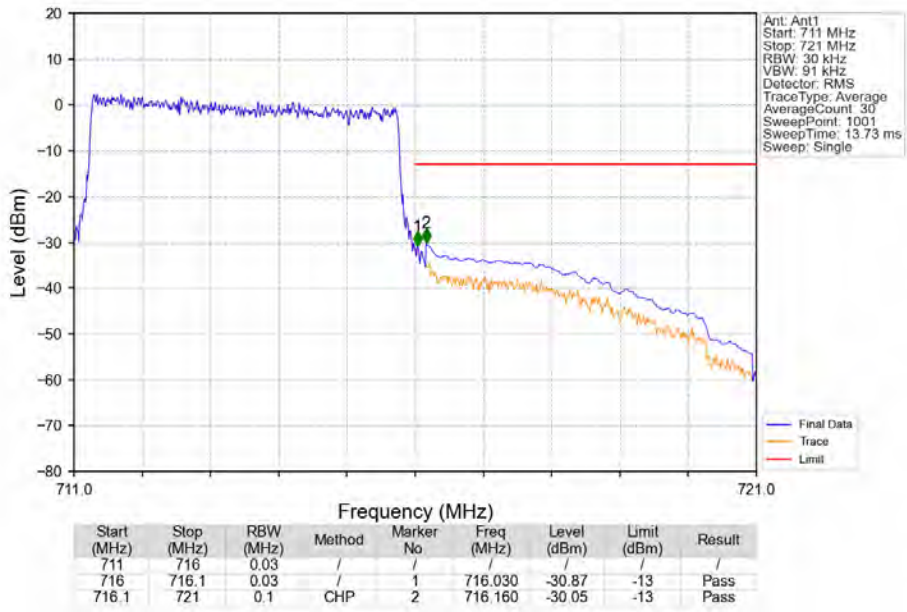


Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV

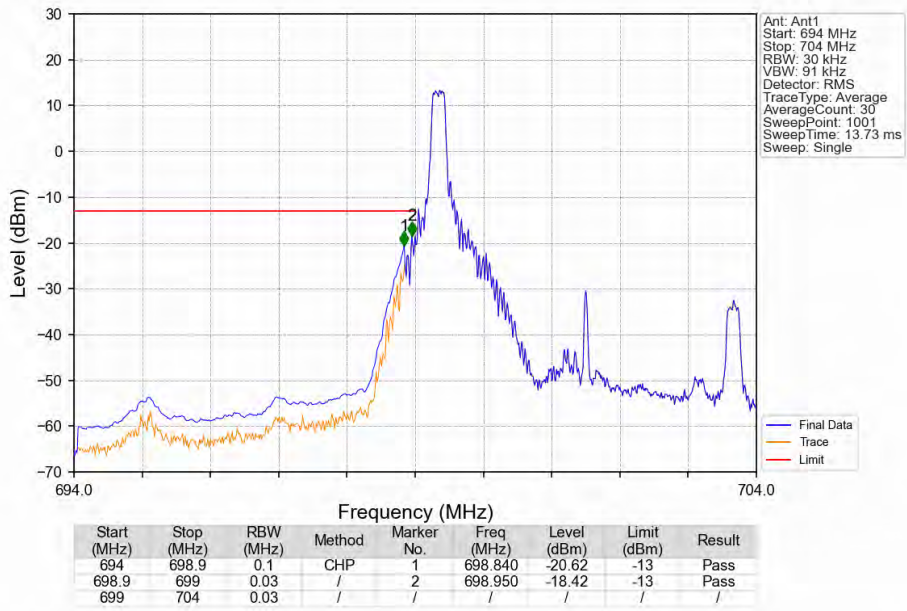


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	1	716.000	-16.66	-13	Pass
716.1	721	0.1	CHP	2	716.160	-18.19	-13	Pass

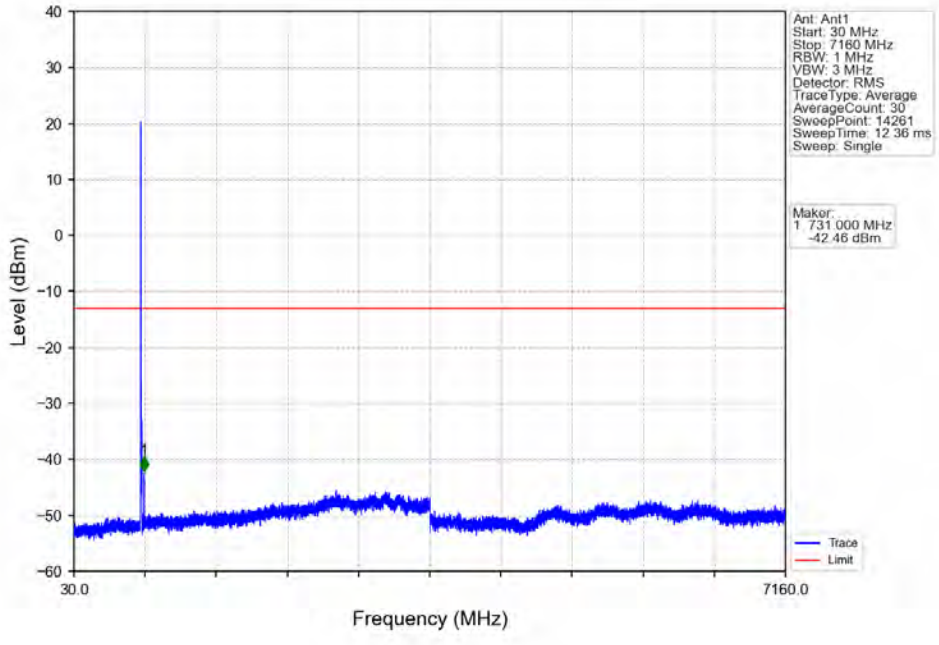
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



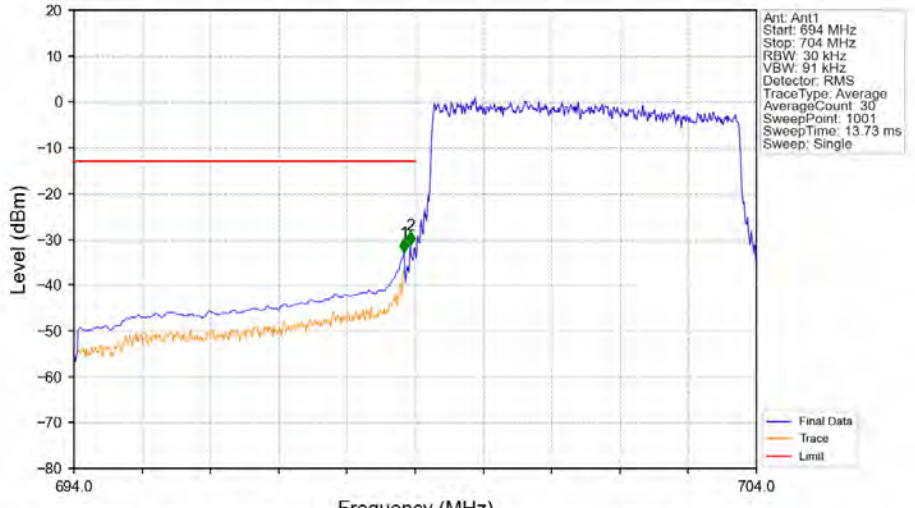
Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV



Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV

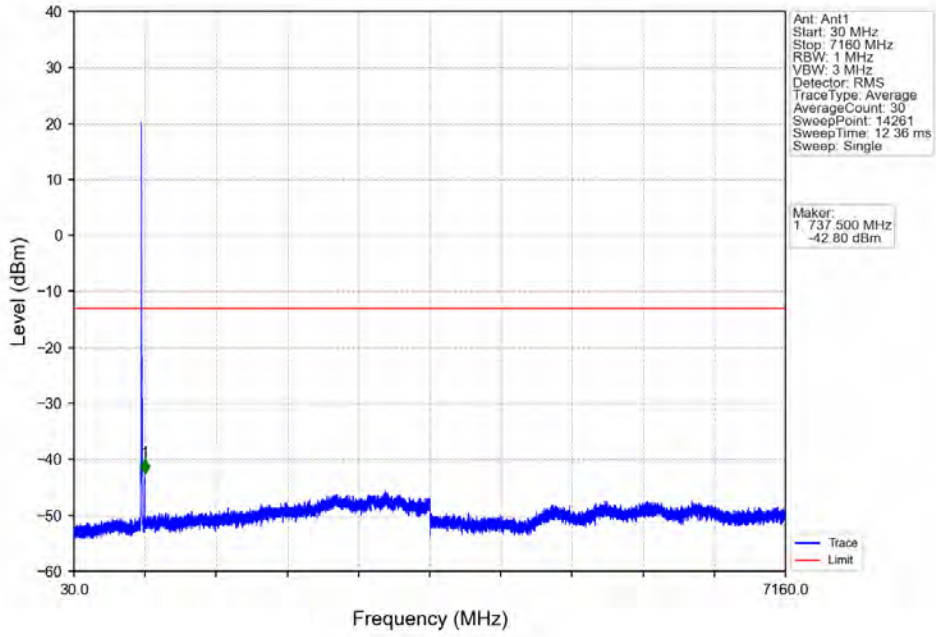


Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV

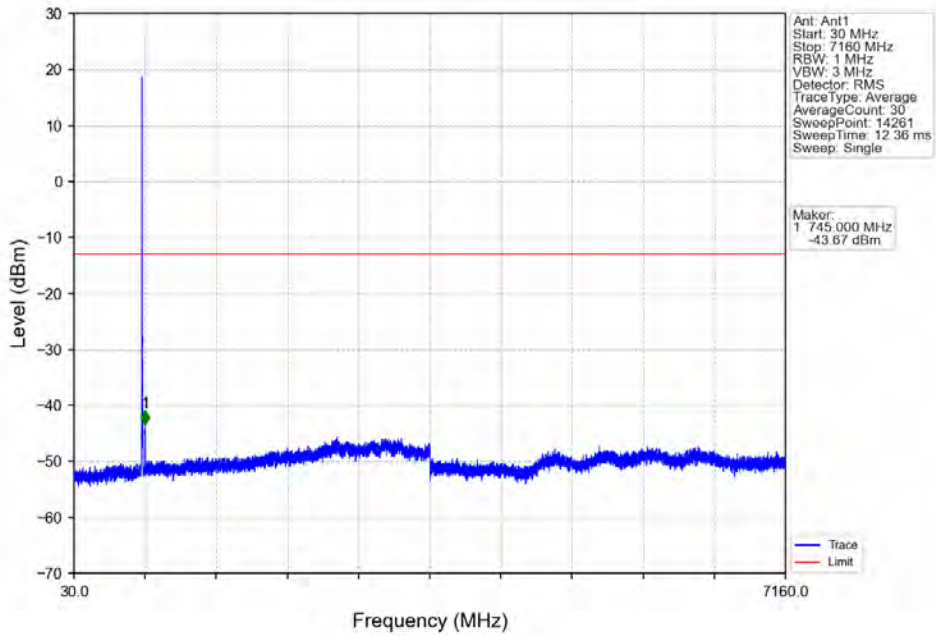


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.840	-32.98	-13	Pass
698.9	699	0.03	/	2	698.930	-31.32	-13	Pass
699	704	0.03	/	/	/	/	/	/

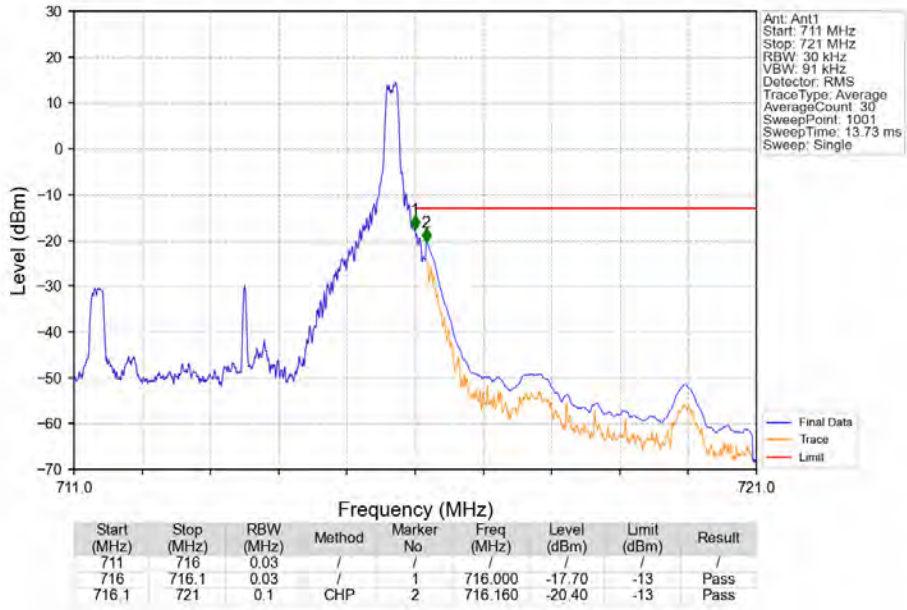
Band12_5MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



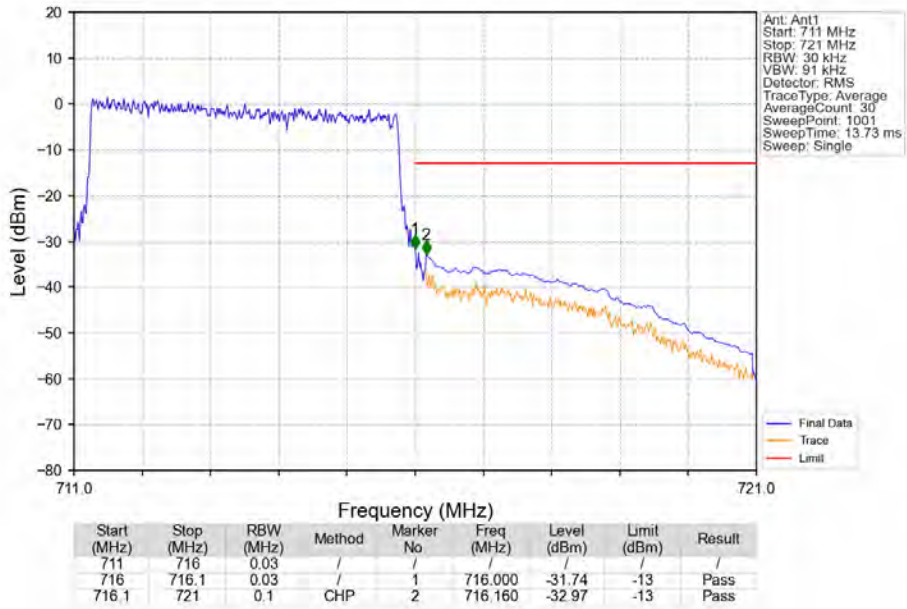
Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_24_NTNV



Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

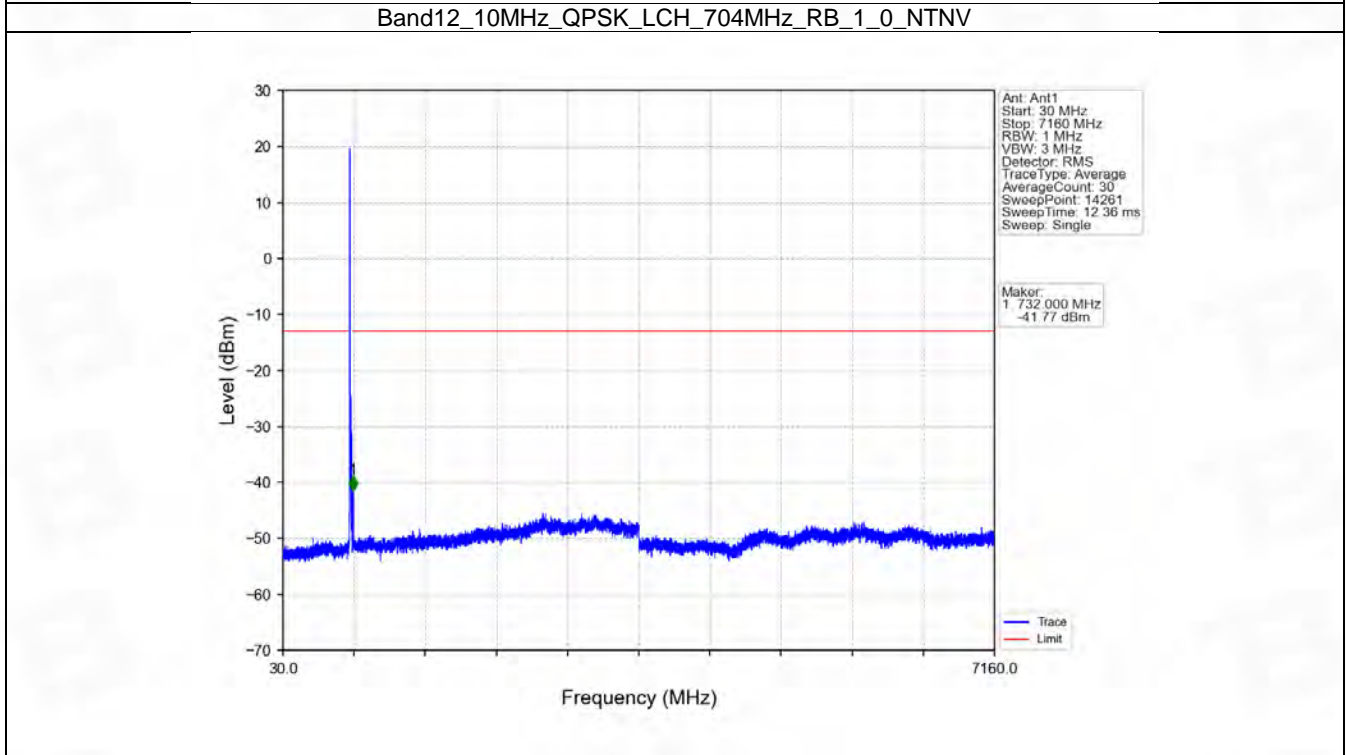
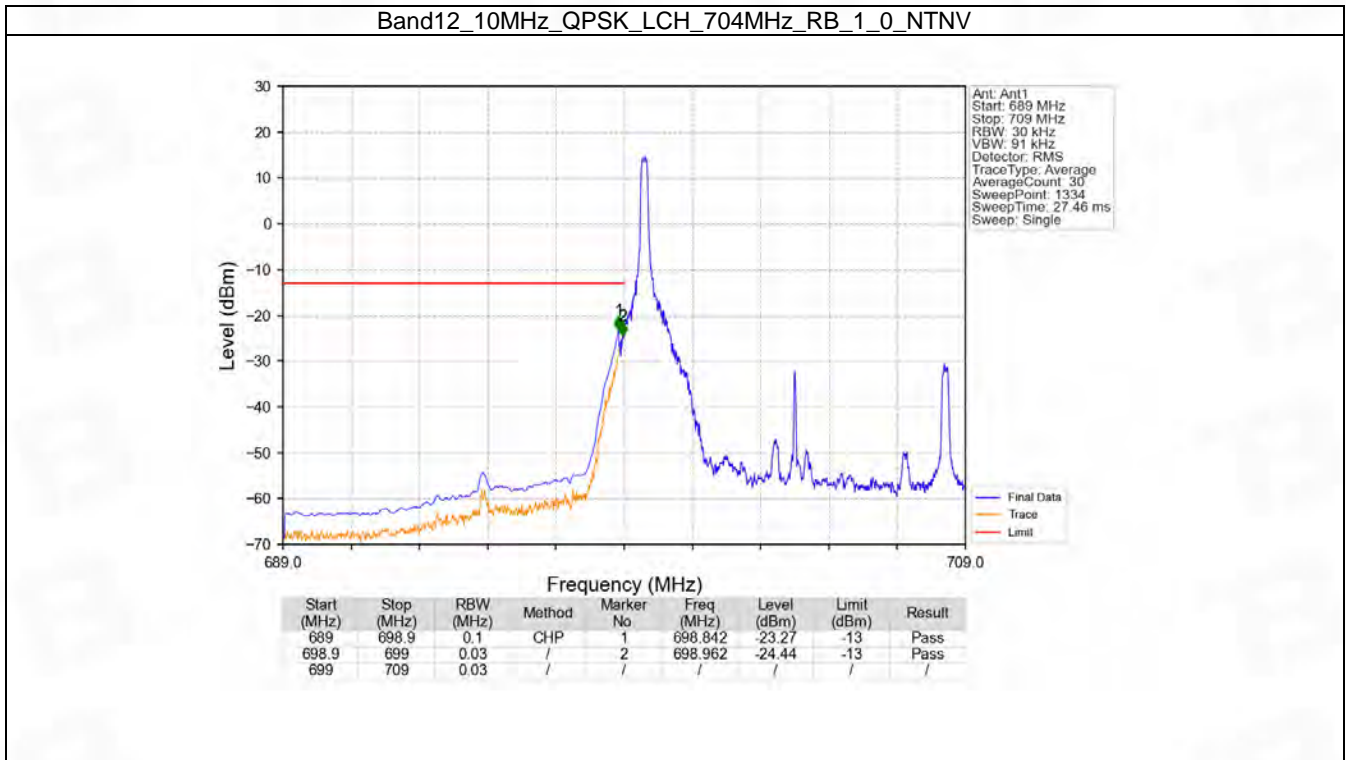


6.4 B12_10MHz

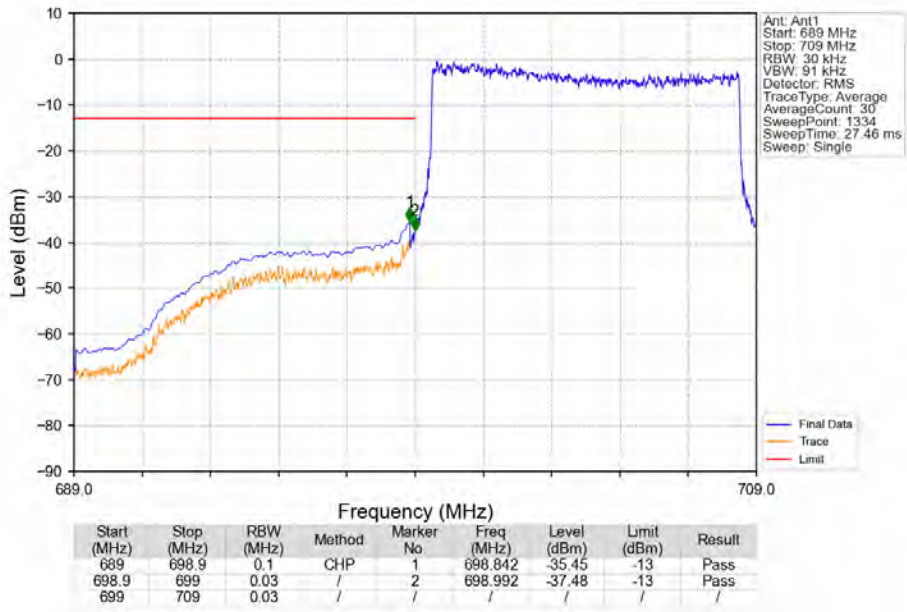
6.4.1 Test Result

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

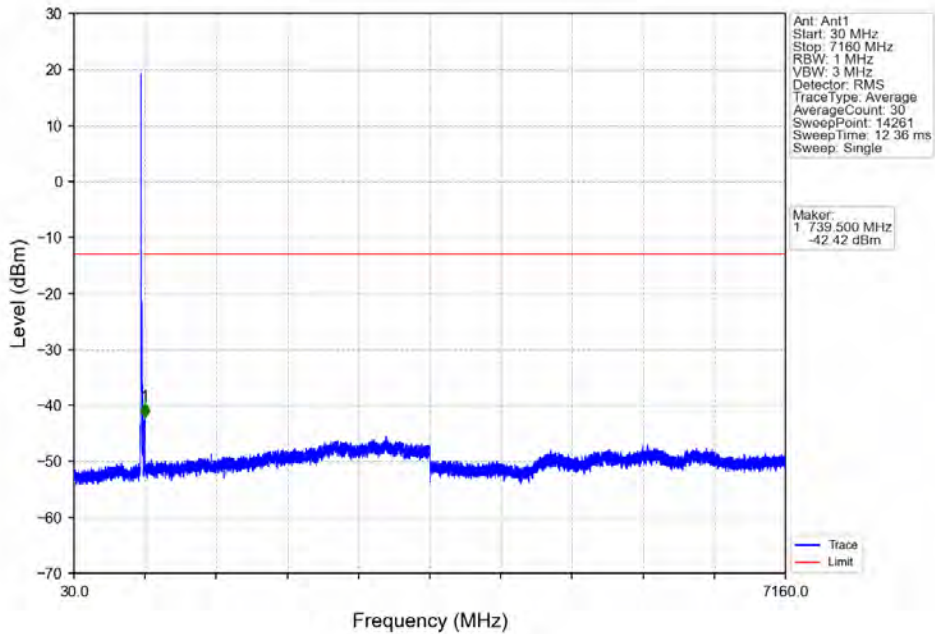
6.4.2 Test Graph



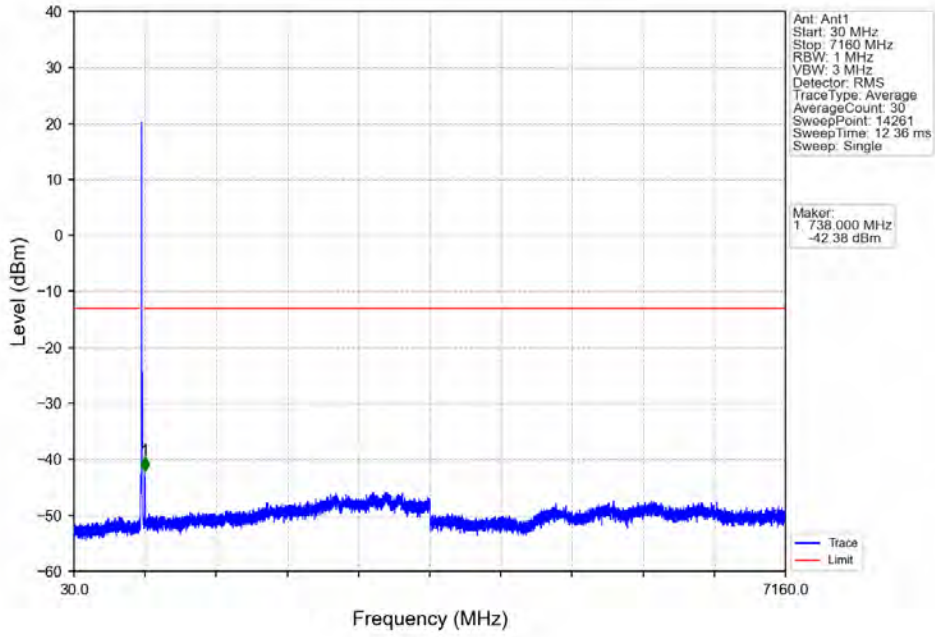
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



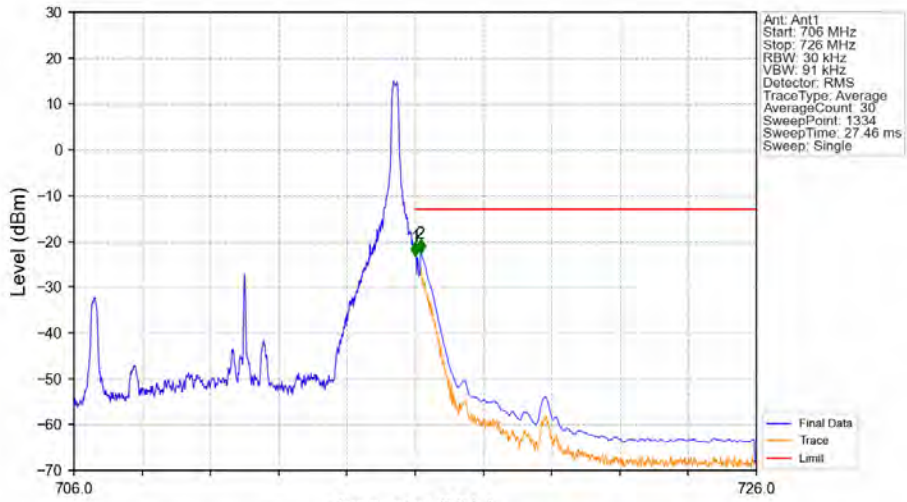
Band12_10MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

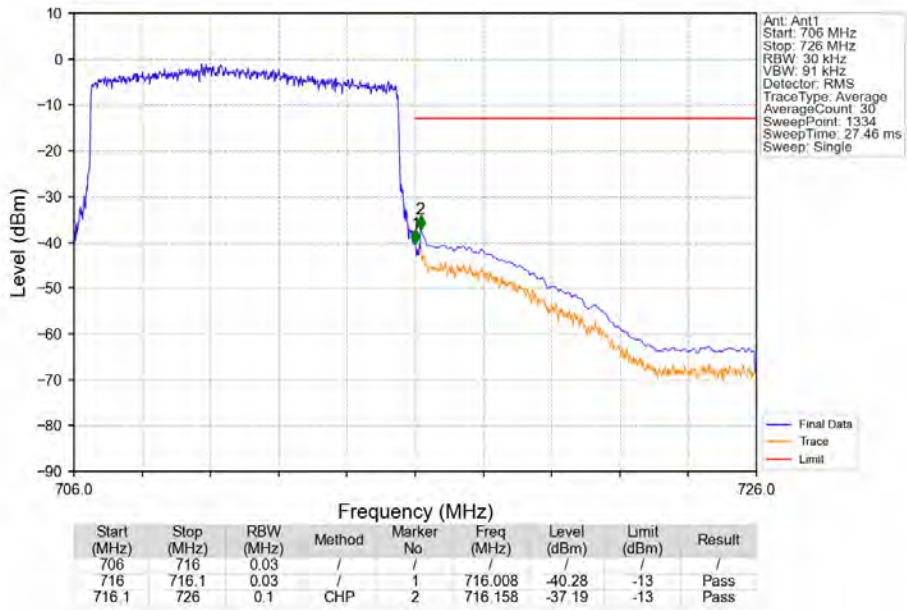


Band12_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV

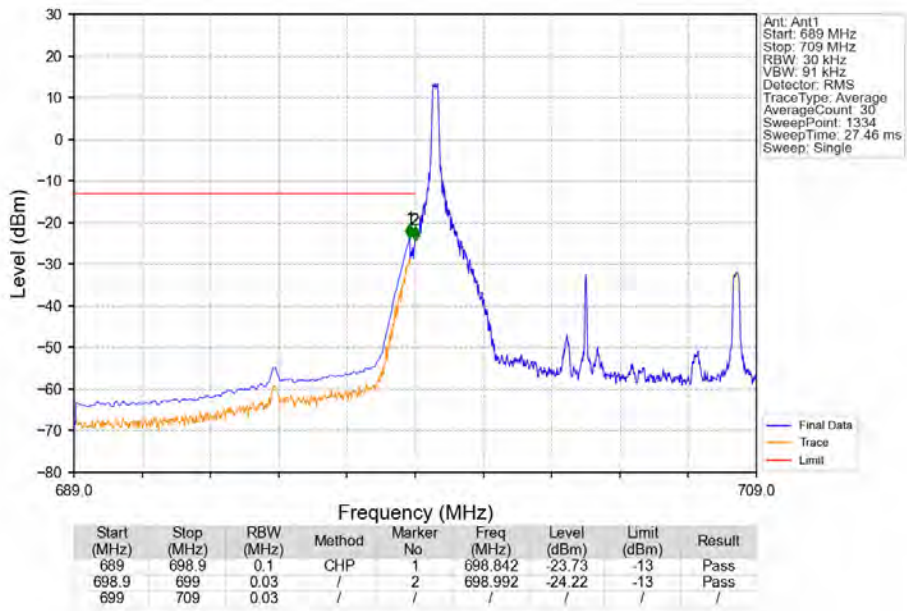


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	1	716.008	-23.25	-13	Pass
716	716.1	0.03	CHP	2	716.158	-22.56	-13	Pass

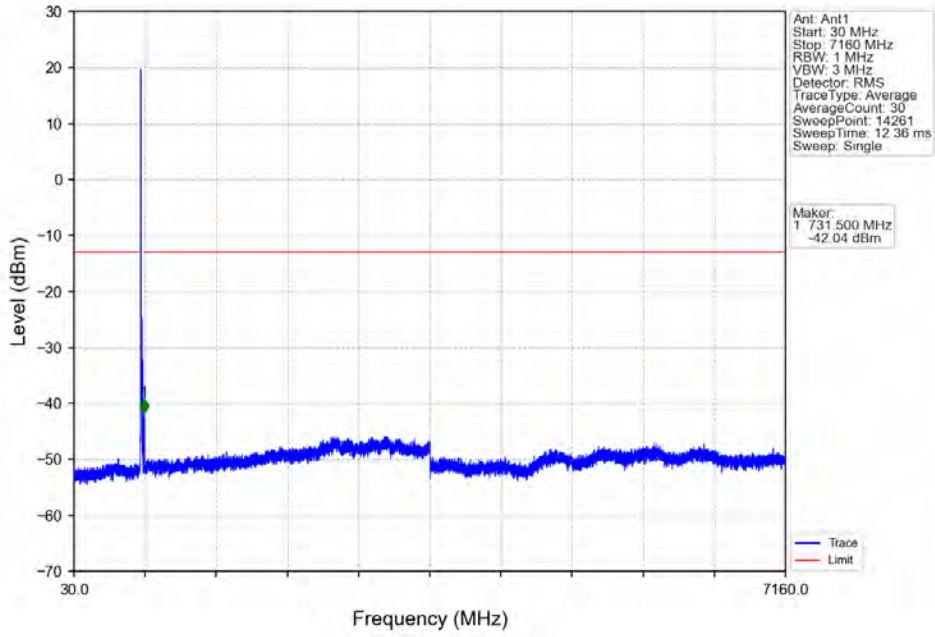
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



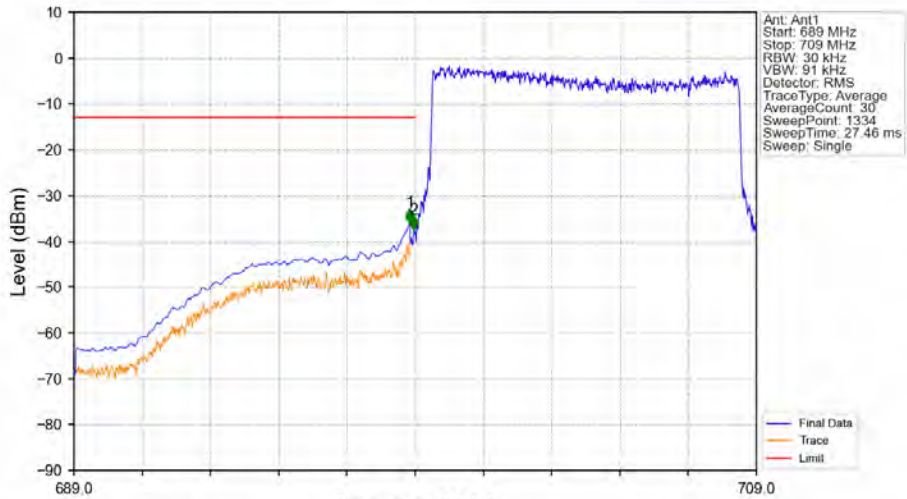
Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV



Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV

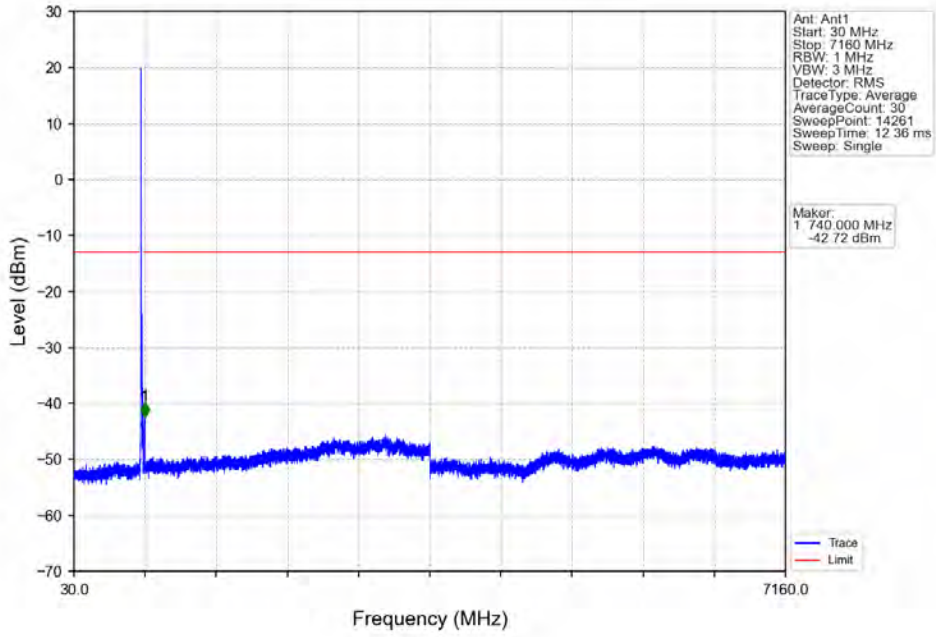


Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV

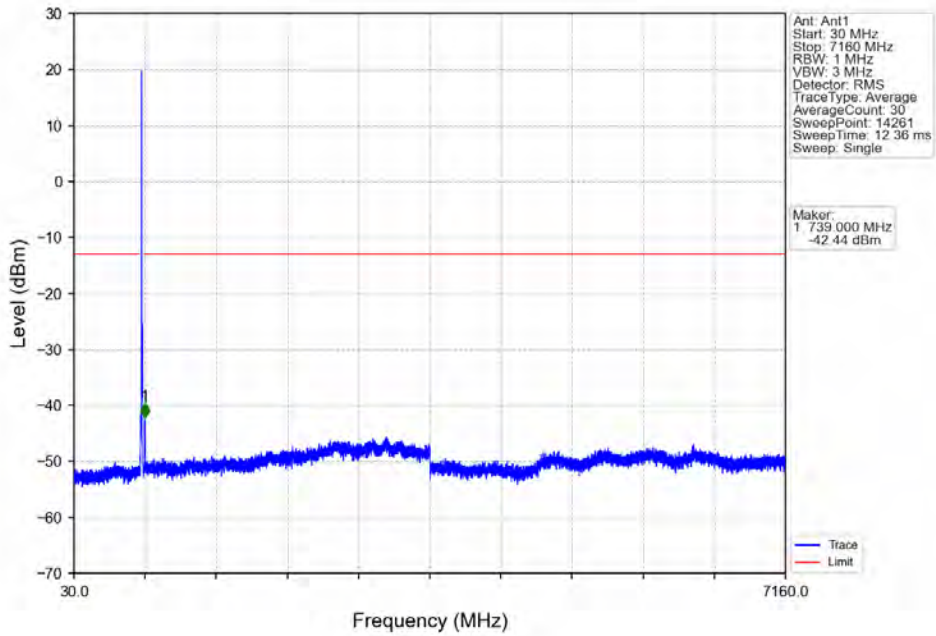


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-35.95	-13	Pass
698.9	699	0.03	/	2	698.962	-37.42	-13	Pass
699	709	0.03	/	/	/	/	/	/

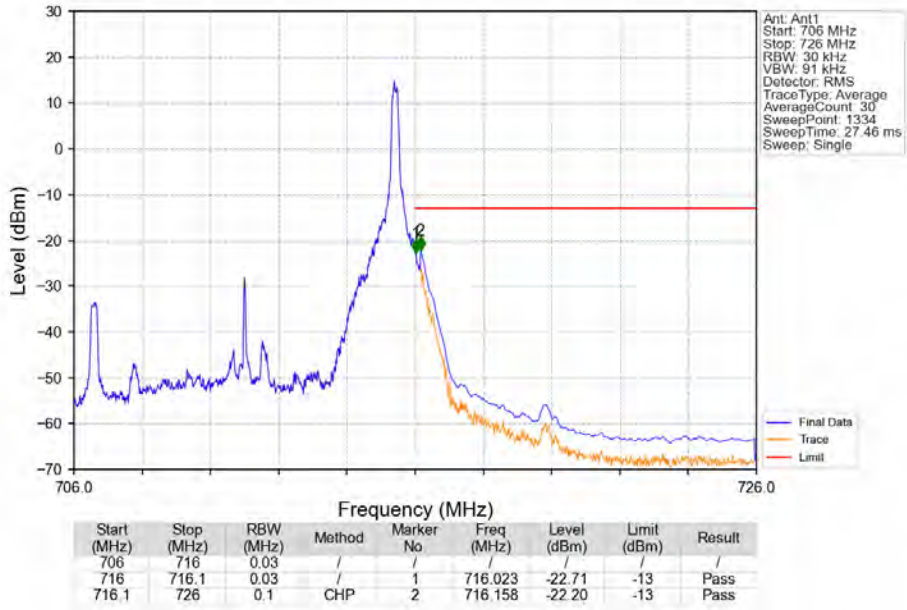
Band12_10MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



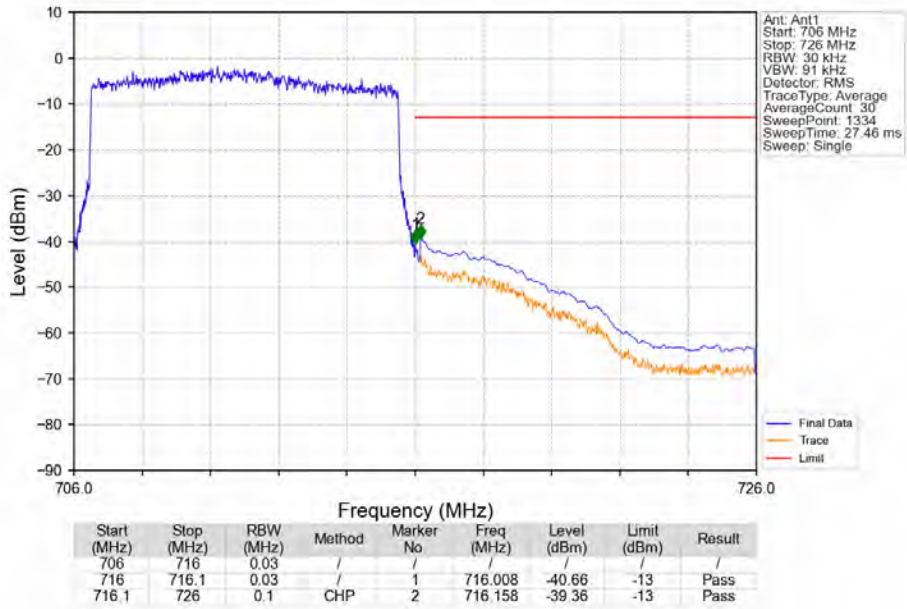
Band12_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_1_49_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



7. Form731

7.1 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	0.1560	0.0250	ppm	1M11G7D	27H	21.93
12	1.4	699.7	715.3	0.1169	0.0150	ppm	1M12W7D	27H	20.68
12	3	700.5	714.5	0.1500	0.0312	ppm	2M76G7D	27H	21.76
12	3	700.5	714.5	0.1303	0.0184	ppm	2M77W7D	27H	21.15
12	5	701.5	713.5	0.1426	0.0162	ppm	4M56G7D	27H	21.54
12	5	701.5	713.5	0.1169	0.0146	ppm	4M57W7D	27H	20.68
12	10	704	711	0.1489	0.0119	ppm	9M07G7D	27H	21.73
12	10	704	711	0.1334	0.0149	ppm	9M08W7D	27H	21.25

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	0.1045	0.0250	ppm	1M11G7D	27H	20.19
12	1.4	699.7	715.3	0.0783	0.0150	ppm	1M12W7D	27H	18.94
12	3	700.5	714.5	0.1005	0.0312	ppm	2M76G7D	27H	20.02
12	3	700.5	714.5	0.0873	0.0184	ppm	2M77W7D	27H	19.41
12	5	701.5	713.5	0.0955	0.0162	ppm	4M56G7D	27H	19.80
12	5	701.5	713.5	0.0783	0.0146	ppm	4M57W7D	27H	18.94
12	10	704	711	0.0998	0.0119	ppm	9M07G7D	27H	19.99
12	10	704	711	0.0893	0.0149	ppm	9M08W7D	27H	19.51