

Appendix Q for KSCR2205000668AT-FCC-LTE-Band17

1. Effective (Isotropic) Radiated Power Output Data

1.1 B17_5MHz_ERP

1.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTNv										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	706.5	1	0	23.64	-3.40	18.09	<=34.77	Pass		
			13	23.81	-3.40	18.26	<=34.77	Pass		
			24	23.66	-3.40	18.11	<=34.77	Pass		
		12	0	22.73	-3.40	17.18	<=34.77	Pass		
			6	22.79	-3.40	17.24	<=34.77	Pass		
			13	22.78	-3.40	17.23	<=34.77	Pass		
		25	0	22.71	-3.40	17.16	<=34.77	Pass		
			0	23.66	-3.40	18.11	<=34.77	Pass		
			13	23.81	-3.40	18.26	<=34.77	Pass		
	710	1	24	23.69	-3.40	18.14	<=34.77	Pass		
			0	22.76	-3.40	17.21	<=34.77	Pass		
			6	22.83	-3.40	17.28	<=34.77	Pass		
		12	13	22.75	-3.40	17.20	<=34.77	Pass		
			0	22.74	-3.40	17.19	<=34.77	Pass		
			0	23.74	-3.40	18.19	<=34.77	Pass		
		713.5	1	13	23.86	-3.40	18.31	<=34.77	Pass	
				24	23.71	-3.40	18.16	<=34.77	Pass	
				0	22.70	-3.40	17.15	<=34.77	Pass	
	12		6	22.80	-3.40	17.25	<=34.77	Pass		
			13	22.76	-3.40	17.21	<=34.77	Pass		
			0	22.75	-3.40	17.20	<=34.77	Pass		
	16QAM		706.5	1	0	22.51	-3.40	16.96	<=34.77	Pass
					13	22.61	-3.40	17.06	<=34.77	Pass
					24	22.51	-3.40	16.96	<=34.77	Pass
12		0		21.67	-3.40	16.12	<=34.77	Pass		
		6		21.76	-3.40	16.21	<=34.77	Pass		
		13		21.75	-3.40	16.20	<=34.77	Pass		
25		0		21.79	-3.40	16.24	<=34.77	Pass		
		0		22.87	-3.40	17.32	<=34.77	Pass		
		13		23.01	-3.40	17.46	<=34.77	Pass		
710		1	24	22.92	-3.40	17.37	<=34.77	Pass		
			0	21.75	-3.40	16.20	<=34.77	Pass		
			6	21.85	-3.40	16.30	<=34.77	Pass		
		12	13	21.81	-3.40	16.26	<=34.77	Pass		
			0	21.74	-3.40	16.19	<=34.77	Pass		
			0	22.76	-3.40	17.21	<=34.77	Pass		
		713.5	1	13	22.84	-3.40	17.29	<=34.77	Pass	
				24	22.64	-3.40	17.09	<=34.77	Pass	
				0	21.70	-3.40	16.15	<=34.77	Pass	
12			6	21.74	-3.40	16.19	<=34.77	Pass		
			13	21.75	-3.40	16.20	<=34.77	Pass		

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64QAM	706.5	1	25	0	21.83	-3.40	16.28	<=34.77	Pass
			1	0	21.63	-3.40	16.08	<=34.77	Pass
				13	21.76	-3.40	16.21	<=34.77	Pass
				24	21.61	-3.40	16.06	<=34.77	Pass
		12	0	20.73	-3.40	15.18	<=34.77	Pass	
			6	20.80	-3.40	15.25	<=34.77	Pass	
			13	20.77	-3.40	15.22	<=34.77	Pass	
			25	0	20.83	-3.40	15.28	<=34.77	Pass
		710	1	0	21.79	-3.40	16.24	<=34.77	Pass
				13	21.94	-3.40	16.39	<=34.77	Pass
				24	21.83	-3.40	16.28	<=34.77	Pass
				0	20.81	-3.40	15.26	<=34.77	Pass
	12		6	20.89	-3.40	15.34	<=34.77	Pass	
			13	20.84	-3.40	15.29	<=34.77	Pass	
			25	0	20.88	-3.40	15.33	<=34.77	Pass
			713.5	1	0	21.83	-3.40	16.28	<=34.77
	13				21.94	-3.40	16.39	<=34.77	Pass
	24				21.81	-3.40	16.26	<=34.77	Pass
	12			0	20.96	-3.40	15.41	<=34.77	Pass
			6	21.00	-3.40	15.45	<=34.77	Pass	
		13	20.93	-3.40	15.38	<=34.77	Pass		
	25	0	20.83	-3.40	15.28	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.2 B17_10MHz_ERP

1.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	709	1	0	23.74	-3.40	18.19	<=34.77	Pass	
			25	23.93	-3.40	18.38	<=34.77	Pass	
			49	23.78	-3.40	18.23	<=34.77	Pass	
		25	0	22.74	-3.40	17.19	<=34.77	Pass	
			13	22.76	-3.40	17.21	<=34.77	Pass	
			25	22.81	-3.40	17.26	<=34.77	Pass	
		50	0	22.76	-3.40	17.21	<=34.77	Pass	
		710	1	0	23.69	-3.40	18.14	<=34.77	Pass
				25	23.95	-3.40	18.40	<=34.77	Pass
				49	23.72	-3.40	18.17	<=34.77	Pass
			25	0	22.70	-3.40	17.15	<=34.77	Pass
				13	22.76	-3.40	17.21	<=34.77	Pass
	25			22.77	-3.40	17.22	<=34.77	Pass	
	50	0	22.75	-3.40	17.20	<=34.77	Pass		
	711	1	0	23.83	-3.40	18.28	<=34.77	Pass	
			25	24.03	-3.40	18.48	<=34.77	Pass	
			49	23.80	-3.40	18.25	<=34.77	Pass	
		25	0	22.70	-3.40	17.15	<=34.77	Pass	
			13	22.87	-3.40	17.32	<=34.77	Pass	
			25	22.73	-3.40	17.18	<=34.77	Pass	
		50	0	22.78	-3.40	17.23	<=34.77	Pass	

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16QAM	709	1	0	23.22	-3.40	17.67	<=34.77	Pass	
			25	23.32	-3.40	17.77	<=34.77	Pass	
			49	23.16	-3.40	17.61	<=34.77	Pass	
		25	0	21.73	-3.40	16.18	<=34.77	Pass	
			13	21.85	-3.40	16.30	<=34.77	Pass	
			25	21.86	-3.40	16.31	<=34.77	Pass	
	50	0	21.77	-3.40	16.22	<=34.77	Pass		
	710	1	0	22.68	-3.40	17.13	<=34.77	Pass	
			25	22.98	-3.40	17.43	<=34.77	Pass	
			49	22.75	-3.40	17.20	<=34.77	Pass	
		25	0	21.68	-3.40	16.13	<=34.77	Pass	
			13	21.76	-3.40	16.21	<=34.77	Pass	
			25	21.80	-3.40	16.25	<=34.77	Pass	
		50	0	21.77	-3.40	16.22	<=34.77	Pass	
		711	1	0	22.62	-3.40	17.07	<=34.77	Pass
				25	22.85	-3.40	17.30	<=34.77	Pass
	49			22.72	-3.40	17.17	<=34.77	Pass	
	25		0	21.87	-3.40	16.32	<=34.77	Pass	
13			21.90	-3.40	16.35	<=34.77	Pass		
25			21.87	-3.40	16.32	<=34.77	Pass		
50	0		21.85	-3.40	16.30	<=34.77	Pass		
64QAM	709		1	0	21.94	-3.40	16.39	<=34.77	Pass
				25	22.14	-3.40	16.59	<=34.77	Pass
		49		21.98	-3.40	16.43	<=34.77	Pass	
		25	0	20.86	-3.40	15.31	<=34.77	Pass	
			13	20.87	-3.40	15.32	<=34.77	Pass	
			25	20.92	-3.40	15.37	<=34.77	Pass	
	50	0	20.89	-3.40	15.34	<=34.77	Pass		
	710	1	0	21.78	-3.40	16.23	<=34.77	Pass	
			25	21.97	-3.40	16.42	<=34.77	Pass	
			49	21.74	-3.40	16.19	<=34.77	Pass	
		25	0	20.92	-3.40	15.37	<=34.77	Pass	
			13	20.96	-3.40	15.41	<=34.77	Pass	
			25	20.95	-3.40	15.40	<=34.77	Pass	
		50	0	20.88	-3.40	15.33	<=34.77	Pass	
		711	1	0	21.63	-3.40	16.08	<=34.77	Pass
				25	21.78	-3.40	16.23	<=34.77	Pass
	49			21.60	-3.40	16.05	<=34.77	Pass	
	25		0	20.97	-3.40	15.42	<=34.77	Pass	
13			20.99	-3.40	15.44	<=34.77	Pass		
25			20.94	-3.40	15.39	<=34.77	Pass		
50	0		20.94	-3.40	15.39	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 B17_5MHz

2.1.1 Test Result

Band: 17 / Bandwidth: 5MHz



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Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	706.5	25	0	20	3.46	-5.406	-0.0077	-2.5 to 2.5	Pass	
					3.8	-5.171	-0.0073	-2.5 to 2.5	Pass	
					4.35	-4.696	-0.0066	-2.5 to 2.5	Pass	
				-30	3.8	-7.011	-0.0099	-2.5 to 2.5	Pass	
					-20	3.8	-5.171	-0.0073	-2.5 to 2.5	Pass
						-10	3.8	-2.823	-0.0040	-2.5 to 2.5
				0	3.8	-3.421	-0.0048	-2.5 to 2.5	Pass	
					10	3.8	-5.149	-0.0073	-2.5 to 2.5	Pass
					30	3.8	-8.113	-0.0115	-2.5 to 2.5	Pass
	40	3.8	-5.782		-0.0082	-2.5 to 2.5	Pass			
	50	3.8	-5.399		-0.0076	-2.5 to 2.5	Pass			
	710	25	0	20	3.46	-5.556	-0.0078	-2.5 to 2.5	Pass	
					3.8	-5.772	-0.0081	-2.5 to 2.5	Pass	
					4.35	-4.619	-0.0065	-2.5 to 2.5	Pass	
				-30	3.8	-6.598	-0.0093	-2.5 to 2.5	Pass	
					-20	3.8	-6.892	-0.0097	-2.5 to 2.5	Pass
						-10	3.8	-9.279	-0.0131	-2.5 to 2.5
				0	3.8	-2.842	-0.0040	-2.5 to 2.5	Pass	
					10	3.8	-5.110	-0.0072	-2.5 to 2.5	Pass
					30	3.8	-7.333	-0.0103	-2.5 to 2.5	Pass
	40	3.8	-2.530		-0.0036	-2.5 to 2.5	Pass			
	50	3.8	-10.731		-0.0151	-2.5 to 2.5	Pass			
	713.5	25	0	20	3.46	-3.024	-0.0042	-2.5 to 2.5	Pass	
					3.8	-11.016	-0.0154	-2.5 to 2.5	Pass	
					4.35	-11.052	-0.0155	-2.5 to 2.5	Pass	
				-30	3.8	-11.659	-0.0163	-2.5 to 2.5	Pass	
					-20	3.8	-11.621	-0.0163	-2.5 to 2.5	Pass
-10						3.8	-15.092	-0.0212	-2.5 to 2.5	Pass
0				3.8	-8.811	-0.0123	-2.5 to 2.5	Pass		
				10	3.8	-7.693	-0.0108	-2.5 to 2.5	Pass	
				30	3.8	-7.863	-0.0110	-2.5 to 2.5	Pass	
	40	3.8	-11.497	-0.0161	-2.5 to 2.5	Pass				
	50	3.8	-4.948	-0.0069	-2.5 to 2.5	Pass				
16QAM	706.5	25	0	20	3.46	-2.022	-0.0029	-2.5 to 2.5	Pass	
					3.8	-3.004	-0.0043	-2.5 to 2.5	Pass	
					4.35	-6.696	-0.0095	-2.5 to 2.5	Pass	
				-30	3.8	-4.289	-0.0061	-2.5 to 2.5	Pass	
					-20	3.8	-4.922	-0.0070	-2.5 to 2.5	Pass
						-10	3.8	-6.433	-0.0091	-2.5 to 2.5
				0	3.8	-8.266	-0.0117	-2.5 to 2.5	Pass	
					10	3.8	-2.385	-0.0034	-2.5 to 2.5	Pass
					30	3.8	-3.853	-0.0055	-2.5 to 2.5	Pass
	40	3.8	-4.111		-0.0058	-2.5 to 2.5	Pass			
	50	3.8	-3.927		-0.0056	-2.5 to 2.5	Pass			
	710	25	0	20	3.46	-6.753	-0.0095	-2.5 to 2.5	Pass	
					3.8	-9.199	-0.0130	-2.5 to 2.5	Pass	
					4.35	-3.106	-0.0044	-2.5 to 2.5	Pass	
				-30	3.8	0.668	0.0009	-2.5 to 2.5	Pass	
					-20	3.8	-2.949	-0.0042	-2.5 to 2.5	Pass
						-10	3.8	-3.850	-0.0054	-2.5 to 2.5
				0	3.8	-5.497	-0.0077	-2.5 to 2.5	Pass	
					10	3.8	-6.872	-0.0097	-2.5 to 2.5	Pass

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	713.5	25	0	30	3.8	-4.693	-0.0066	-2.5 to 2.5	Pass			
				40	3.8	-7.289	-0.0103	-2.5 to 2.5	Pass			
				50	3.8	-5.638	-0.0079	-2.5 to 2.5	Pass			
				20	3.46	-5.534	-0.0078	-2.5 to 2.5	Pass			
					3.8	-4.785	-0.0067	-2.5 to 2.5	Pass			
					4.35	-4.343	-0.0061	-2.5 to 2.5	Pass			
				-30	3.8	-3.450	-0.0048	-2.5 to 2.5	Pass			
				-20	3.8	-5.704	-0.0080	-2.5 to 2.5	Pass			
				-10	3.8	-5.935	-0.0083	-2.5 to 2.5	Pass			
				0	3.8	-3.939	-0.0055	-2.5 to 2.5	Pass			
				10	3.8	-2.576	-0.0036	-2.5 to 2.5	Pass			
				30	3.8	-8.555	-0.0120	-2.5 to 2.5	Pass			
				40	3.8	-4.678	-0.0066	-2.5 to 2.5	Pass			
50	3.8	-6.498	-0.0091	-2.5 to 2.5	Pass							
64QAM	706.5	25	0	20	3.46	-8.423	-0.0119	-2.5 to 2.5	Pass			
					3.8	-4.659	-0.0066	-2.5 to 2.5	Pass			
					4.35	-8.114	-0.0115	-2.5 to 2.5	Pass			
				-30	3.8	-0.544	-0.0008	-2.5 to 2.5	Pass			
				-20	3.8	-7.261	-0.0103	-2.5 to 2.5	Pass			
				-10	3.8	-1.828	-0.0026	-2.5 to 2.5	Pass			
				0	3.8	-1.311	-0.0019	-2.5 to 2.5	Pass			
				10	3.8	-3.492	-0.0049	-2.5 to 2.5	Pass			
				30	3.8	-4.265	-0.0060	-2.5 to 2.5	Pass			
				40	3.8	-6.030	-0.0085	-2.5 to 2.5	Pass			
				50	3.8	-3.921	-0.0055	-2.5 to 2.5	Pass			
				710	25	0	20	3.46	-4.811	-0.0068	-2.5 to 2.5	Pass
								3.8	-2.658	-0.0037	-2.5 to 2.5	Pass
4.35	-7.433	-0.0105	-2.5 to 2.5					Pass				
-30	3.8	-6.742	-0.0095				-2.5 to 2.5	Pass				
-20	3.8	-6.287	-0.0089				-2.5 to 2.5	Pass				
-10	3.8	1.523	0.0021				-2.5 to 2.5	Pass				
0	3.8	1.772	0.0025				-2.5 to 2.5	Pass				
10	3.8	-2.627	-0.0037				-2.5 to 2.5	Pass				
30	3.8	-0.795	-0.0011				-2.5 to 2.5	Pass				
40	3.8	-5.492	-0.0077				-2.5 to 2.5	Pass				
50	3.8	-7.256	-0.0102				-2.5 to 2.5	Pass				
713.5	25	0	20				3.46	-4.336	-0.0061	-2.5 to 2.5	Pass	
							3.8	-7.405	-0.0104	-2.5 to 2.5	Pass	
				4.35	-5.842	-0.0082	-2.5 to 2.5	Pass				
			-30	3.8	-2.707	-0.0038	-2.5 to 2.5	Pass				
			-20	3.8	-9.215	-0.0129	-2.5 to 2.5	Pass				
			-10	3.8	-9.183	-0.0129	-2.5 to 2.5	Pass				
			0	3.8	-9.386	-0.0132	-2.5 to 2.5	Pass				
			10	3.8	-10.981	-0.0154	-2.5 to 2.5	Pass				
			30	3.8	-7.994	-0.0112	-2.5 to 2.5	Pass				
			40	3.8	-9.750	-0.0137	-2.5 to 2.5	Pass				
			50	3.8	-9.878	-0.0138	-2.5 to 2.5	Pass				

2.2 B17_10MHZ

2.2.1 Test Result



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Band: 17 / Bandwidth: 10MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	709	50	0	20	3.46	-5.245	-0.0074	-2.5 to 2.5	Pass	
					3.8	-2.050	-0.0029	-2.5 to 2.5	Pass	
					4.35	-1.215	-0.0017	-2.5 to 2.5	Pass	
				-30	3.8	-2.486	-0.0035	-2.5 to 2.5	Pass	
					-20	3.8	-4.017	-0.0057	-2.5 to 2.5	Pass
						-10	3.8	-2.115	-0.0030	-2.5 to 2.5
				0	3.8	-1.628	-0.0023	-2.5 to 2.5	Pass	
					10	3.8	-6.829	-0.0096	-2.5 to 2.5	Pass
				30	3.8	-7.320	-0.0103	-2.5 to 2.5	Pass	
				40	3.8	-7.079	-0.0100	-2.5 to 2.5	Pass	
	50	3.8	-7.062	-0.0100	-2.5 to 2.5	Pass				
	710	50	0	20	3.46	-3.809	-0.0054	-2.5 to 2.5	Pass	
					3.8	-4.141	-0.0058	-2.5 to 2.5	Pass	
					4.35	-1.900	-0.0027	-2.5 to 2.5	Pass	
				-30	3.8	-4.628	-0.0065	-2.5 to 2.5	Pass	
					-20	3.8	-4.927	-0.0069	-2.5 to 2.5	Pass
						-10	3.8	-2.008	-0.0028	-2.5 to 2.5
				0	3.8	-5.325	-0.0075	-2.5 to 2.5	Pass	
					10	3.8	-3.532	-0.0050	-2.5 to 2.5	Pass
				30	3.8	-8.134	-0.0115	-2.5 to 2.5	Pass	
				40	3.8	-3.440	-0.0048	-2.5 to 2.5	Pass	
	50	3.8	-3.782	-0.0053	-2.5 to 2.5	Pass				
	711	50	0	20	3.46	-2.749	-0.0039	-2.5 to 2.5	Pass	
					3.8	-6.520	-0.0092	-2.5 to 2.5	Pass	
					4.35	-8.371	-0.0118	-2.5 to 2.5	Pass	
				-30	3.8	-4.636	-0.0065	-2.5 to 2.5	Pass	
					-20	3.8	-3.315	-0.0047	-2.5 to 2.5	Pass
						-10	3.8	-3.536	-0.0050	-2.5 to 2.5
				0	3.8	-5.561	-0.0078	-2.5 to 2.5	Pass	
					10	3.8	-5.883	-0.0083	-2.5 to 2.5	Pass
30				3.8	-2.155	-0.0030	-2.5 to 2.5	Pass		
40				3.8	-3.425	-0.0048	-2.5 to 2.5	Pass		
50	3.8	-0.766	-0.0011	-2.5 to 2.5	Pass					
16QAM	709	50	0	20	3.46	-10.045	-0.0142	-2.5 to 2.5	Pass	
					3.8	-5.440	-0.0077	-2.5 to 2.5	Pass	
					4.35	-8.977	-0.0127	-2.5 to 2.5	Pass	
				-30	3.8	-5.951	-0.0084	-2.5 to 2.5	Pass	
					-20	3.8	-3.097	-0.0044	-2.5 to 2.5	Pass
						-10	3.8	-8.377	-0.0118	-2.5 to 2.5
				0	3.8	-8.310	-0.0117	-2.5 to 2.5	Pass	
					10	3.8	-9.368	-0.0132	-2.5 to 2.5	Pass
				30	3.8	-4.376	-0.0062	-2.5 to 2.5	Pass	
				40	3.8	-4.828	-0.0068	-2.5 to 2.5	Pass	
	50	3.8	-4.922	-0.0069	-2.5 to 2.5	Pass				
	710	50	0	20	3.46	-2.239	-0.0032	-2.5 to 2.5	Pass	
					3.8	-6.702	-0.0094	-2.5 to 2.5	Pass	
					4.35	-4.941	-0.0070	-2.5 to 2.5	Pass	
				-30	3.8	-8.644	-0.0122	-2.5 to 2.5	Pass	
					-20	3.8	-7.214	-0.0102	-2.5 to 2.5	Pass
						-10	3.8	-10.037	-0.0141	-2.5 to 2.5
				0	3.8	-9.841	-0.0139	-2.5 to 2.5	Pass	

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				10	3.8	-9.539	-0.0134	-2.5 to 2.5	Pass									
				30	3.8	-5.035	-0.0071	-2.5 to 2.5	Pass									
				40	3.8	-7.963	-0.0112	-2.5 to 2.5	Pass									
				50	3.8	-5.296	-0.0075	-2.5 to 2.5	Pass									
				711	50	0	20	3.46	-6.159	-0.0087	-2.5 to 2.5	Pass						
								3.8	-1.673	-0.0024	-2.5 to 2.5	Pass						
								4.35	-5.040	-0.0071	-2.5 to 2.5	Pass						
							-30	3.8	-0.965	-0.0014	-2.5 to 2.5	Pass						
							-20	3.8	-6.297	-0.0089	-2.5 to 2.5	Pass						
							-10	3.8	-3.074	-0.0043	-2.5 to 2.5	Pass						
							0	3.8	-1.136	-0.0016	-2.5 to 2.5	Pass						
							10	3.8	-2.987	-0.0042	-2.5 to 2.5	Pass						
30	3.8	-1.707	-0.0024	-2.5 to 2.5	Pass													
40	3.8	-4.540	-0.0064	-2.5 to 2.5	Pass													
50	3.8	-5.311	-0.0075	-2.5 to 2.5	Pass													
64QAM																		
										709	50	0	20	3.46	-1.809	-0.0026	-2.5 to 2.5	Pass
														3.8	-10.706	-0.0151	-2.5 to 2.5	Pass
														4.35	-10.708	-0.0151	-2.5 to 2.5	Pass
										-30	3.8	-7.645	-0.0108	-2.5 to 2.5	Pass			
										-20	3.8	-4.743	-0.0067	-2.5 to 2.5	Pass			
										-10	3.8	-2.586	-0.0036	-2.5 to 2.5	Pass			
										0	3.8	-9.338	-0.0132	-2.5 to 2.5	Pass			
										10	3.8	-6.445	-0.0091	-2.5 to 2.5	Pass			
										30	3.8	-12.192	-0.0172	-2.5 to 2.5	Pass			
										40	3.8	-6.568	-0.0093	-2.5 to 2.5	Pass			
										50	3.8	-3.799	-0.0054	-2.5 to 2.5	Pass			
710	50	0	20	3.46	-5.216	-0.0073	-2.5 to 2.5	Pass										
				3.8	-5.369	-0.0076	-2.5 to 2.5	Pass										
				4.35	-8.260	-0.0116	-2.5 to 2.5	Pass										
			-30	3.8	-5.856	-0.0082	-2.5 to 2.5	Pass										
			-20	3.8	-2.872	-0.0040	-2.5 to 2.5	Pass										
			-10	3.8	-5.932	-0.0084	-2.5 to 2.5	Pass										
			0	3.8	-7.204	-0.0101	-2.5 to 2.5	Pass										
			10	3.8	-3.904	-0.0055	-2.5 to 2.5	Pass										
			30	3.8	-5.701	-0.0080	-2.5 to 2.5	Pass										
			40	3.8	-7.454	-0.0105	-2.5 to 2.5	Pass										
			50	3.8	-8.142	-0.0115	-2.5 to 2.5	Pass										
			711	50	0	20	3.46	-4.556	-0.0064	-2.5 to 2.5	Pass							
3.8	-1.769	-0.0025					-2.5 to 2.5	Pass										
4.35	-1.234	-0.0017					-2.5 to 2.5	Pass										
-30	3.8	-1.286				-0.0018	-2.5 to 2.5	Pass										
-20	3.8	-3.753				-0.0053	-2.5 to 2.5	Pass										
-10	3.8	-3.426				-0.0048	-2.5 to 2.5	Pass										
0	3.8	-4.404				-0.0062	-2.5 to 2.5	Pass										
10	3.8	-4.208				-0.0059	-2.5 to 2.5	Pass										
30	3.8	-3.541				-0.0050	-2.5 to 2.5	Pass										
40	3.8	-6.080				-0.0086	-2.5 to 2.5	Pass										
50	3.8	-8.209				-0.0115	-2.5 to 2.5	Pass										

3. Modulation Characteristics

3.1 B17_5MHz



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3.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	710	25	0	Refer To Test Graph		Pass
16QAM	710	25	0	Refer To Test Graph		Pass
64QAM	710	25	0	Refer To Test Graph		Pass

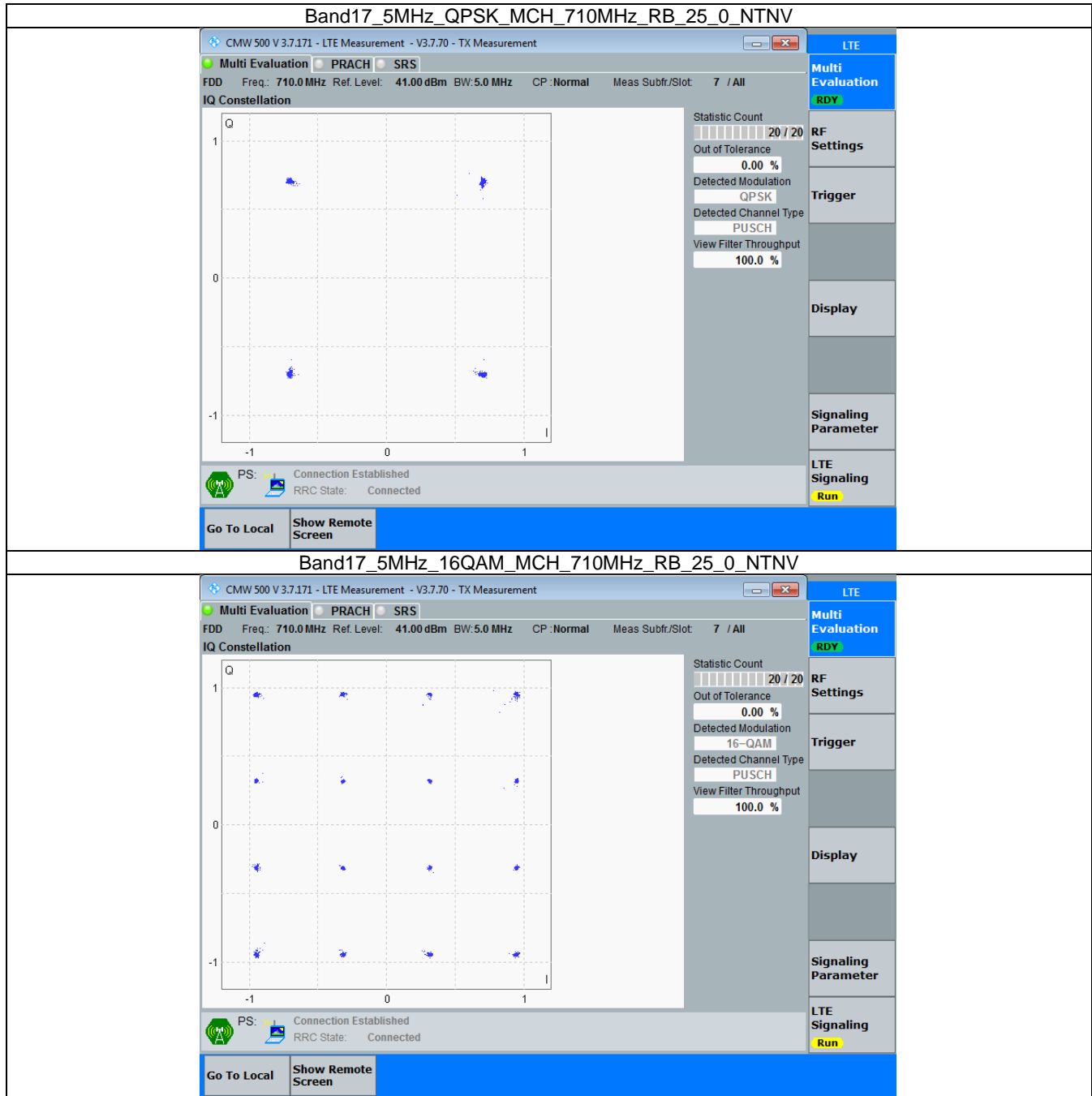


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3.1.2 Test Graph



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Band17_5MHz_64QAM_MCH_710MHz_RB_25_0_NTNV

CMW 500 V 3.7.171 - LTE Measurement - V3.7.70 - TX Measurement		LTE
Multi Evaluation <input type="checkbox"/> PRACH <input type="checkbox"/> SRS		Multi Evaluation RDY
FDD Freq: 710.0 MHz Ref. Level: 41.00 dBm BW: 5.0 MHz CP: Normal Meas Subfr/Slot 7 / All		RF Settings
IQ Constellation		Trigger
		Display
PS: Connection Established RRC State: Connected		Signaling Parameter LTE Signaling Run
Go To Local	Show Remote Screen	



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3.2 B17_10MHz

3.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	710	50	0	Refer To Test Graph		Pass
16QAM	710	50	0	Refer To Test Graph		Pass
64QAM	710	50	0	Refer To Test Graph		Pass

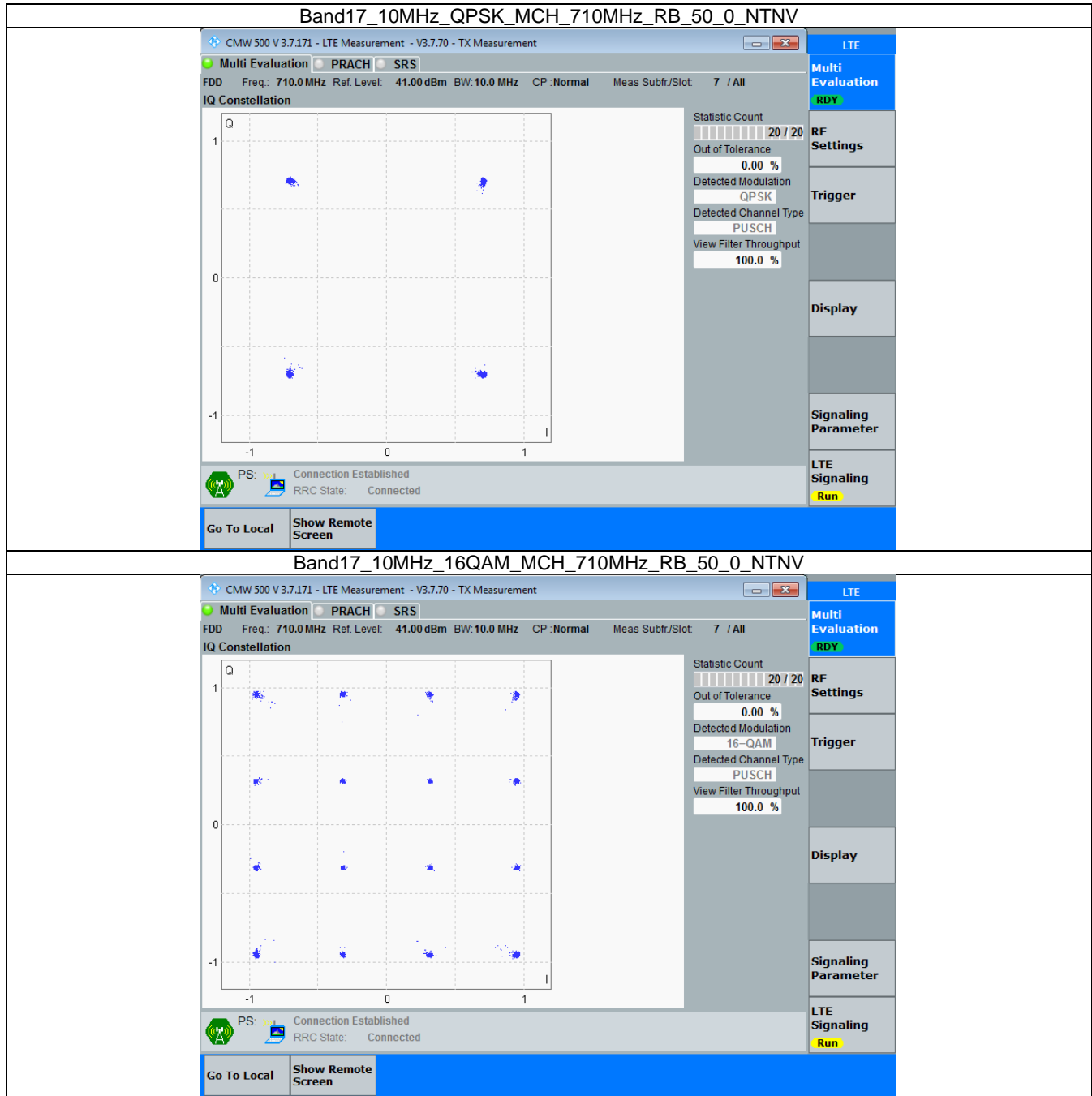
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3.2.2 Test Graph



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Band17_10MHz_64QAM_MCH_710MHz_RB_50_0_NTNV

CMW 500 V 3.7.171 - LTE Measurement - V3.7.70 - TX Measurement
LTE

Multi Evaluation PRACH SRS
Multi Evaluation RDY

FDD Freq: 710.0 MHz Ref. Level: 41.00 dBm BW: 10.0 MHz CP: Normal Meas Subfr/Slot 7 / All
RF Settings

IQ Constellation

Statistic Count: 20 / 20

Out of Tolerance: 0.00 %

Detected Modulation: 64-QAM

Detected Channel Type: PUSCH

View Filter Throughput: 100.0 %

Trigger

Display

Signaling Parameter

LTE Signaling Run

PS: Connection Established RRC State: Connected

Go To Local
Show Remote Screen



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4. 99% & 26dB Bandwidth

4.1 Band17_OBW

4.1.1 Test Result

Band: 17 / NTV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	706.5	25	0	4.561	Pass
		710	25	0	4.571	Pass
		713.5	25	0	4.554	Pass
	16QAM	706.5	25	0	4.557	Pass
		710	25	0	4.596	Pass
		713.5	25	0	4.602	Pass
	64QAM	706.5	25	0	4.563	Pass
		710	25	0	4.585	Pass
		713.5	25	0	4.564	Pass
10	QPSK	709	50	0	9.064	Pass
		710	50	0	9.065	Pass
		711	50	0	9.100	Pass
	16QAM	709	50	0	9.104	Pass
		710	50	0	9.078	Pass
		711	50	0	9.072	Pass
	64QAM	709	50	0	9.102	Pass
		710	50	0	9.066	Pass
		711	50	0	9.088	Pass



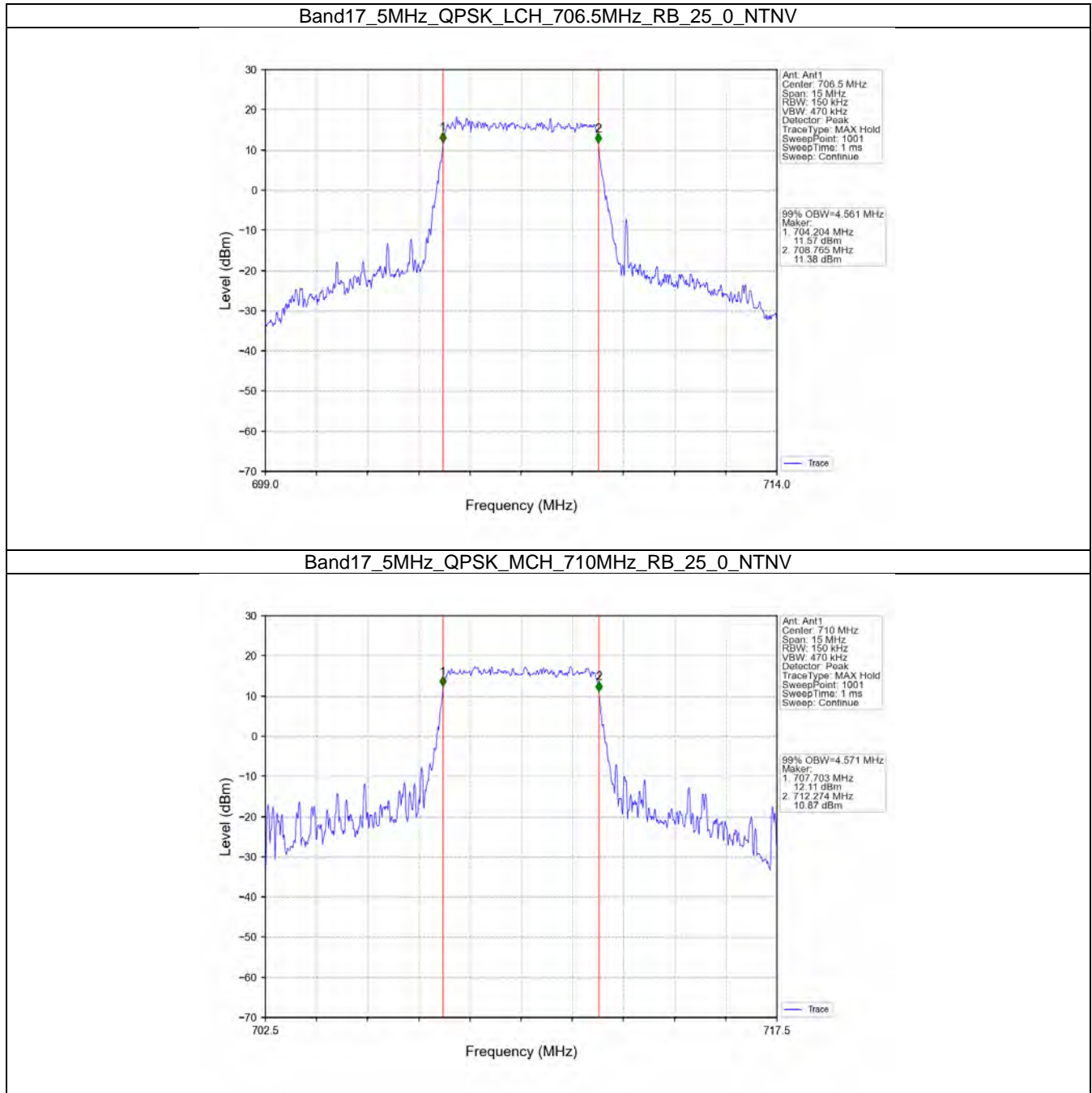
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4.1.2 Test Graph



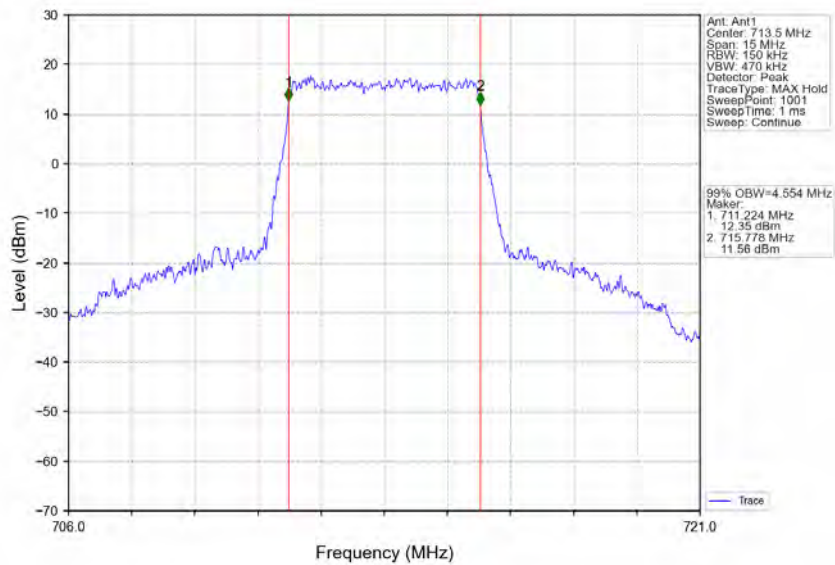
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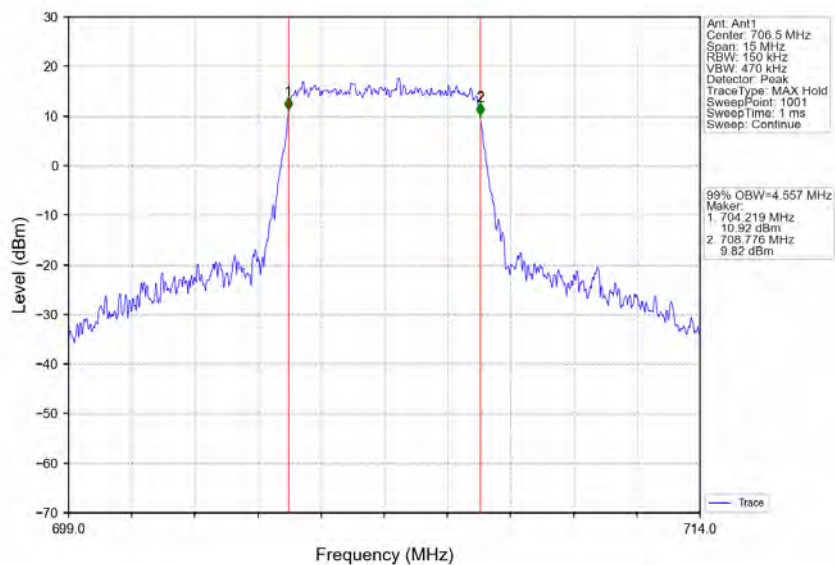
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Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



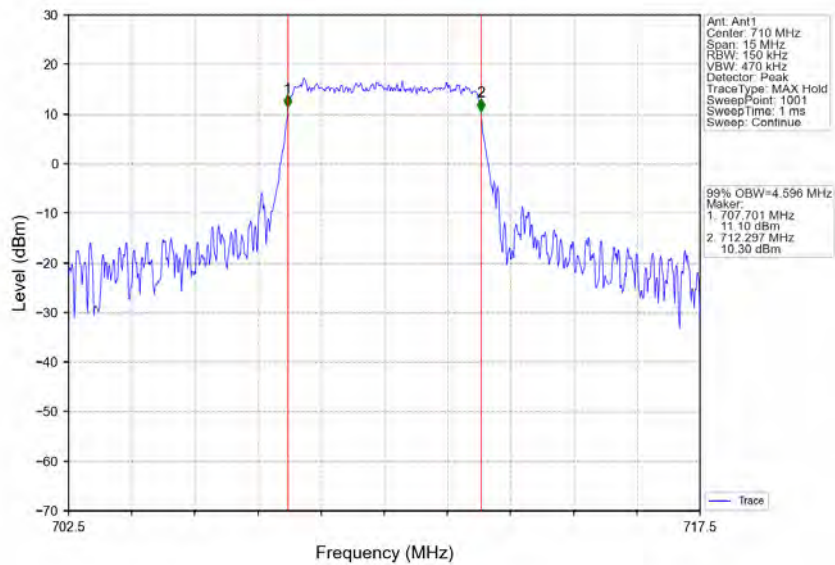
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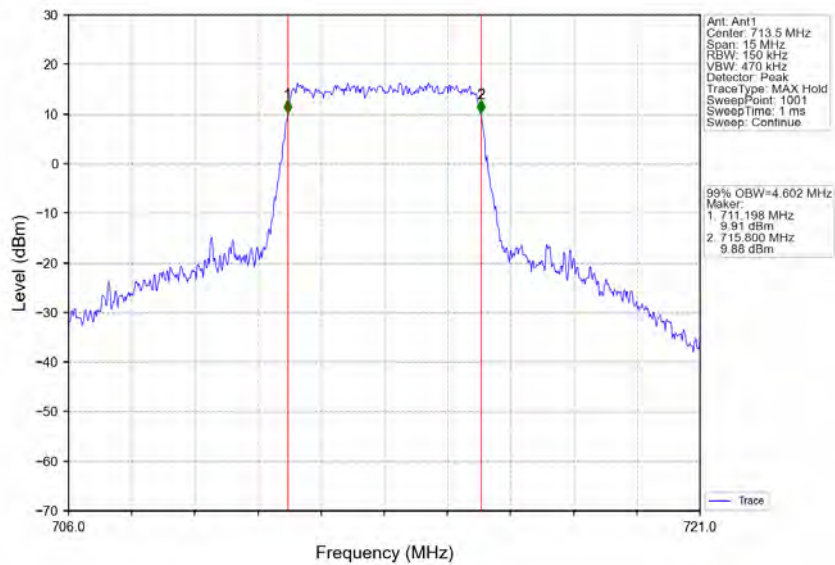
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Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



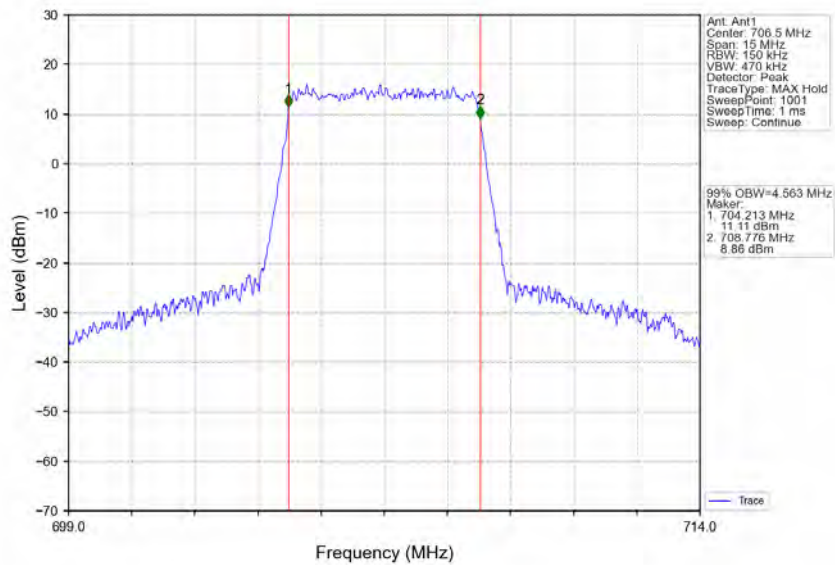
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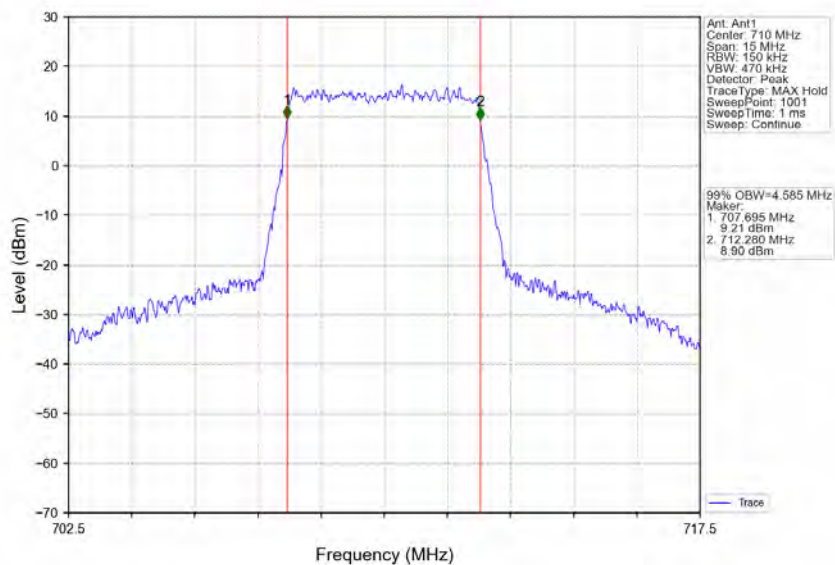
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Band17_5MHz_64QAM_LCH_706.5MHz_RB_25_0_NTNV



Band17_5MHz_64QAM_MCH_710MHz_RB_25_0_NTNV



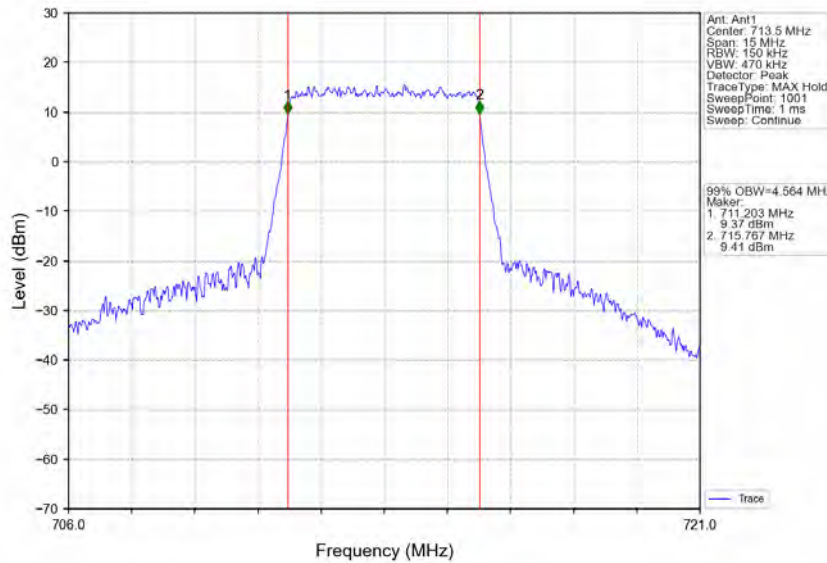
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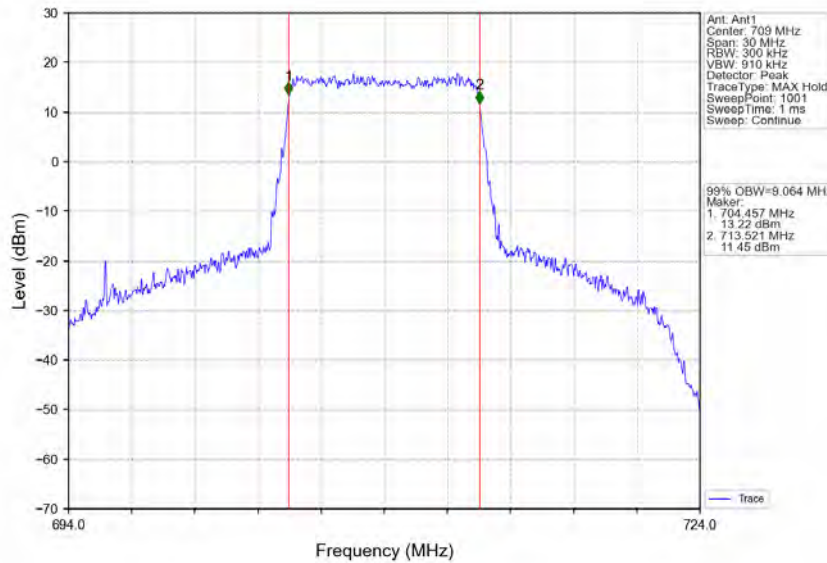
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Band17_5MHz_64QAM_HCH_713.5MHz_RB_25_0_NTNV



Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



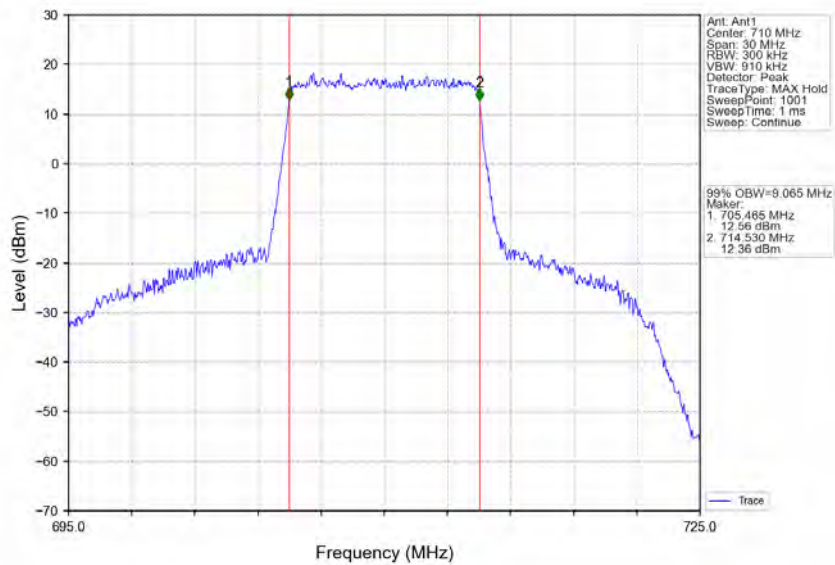
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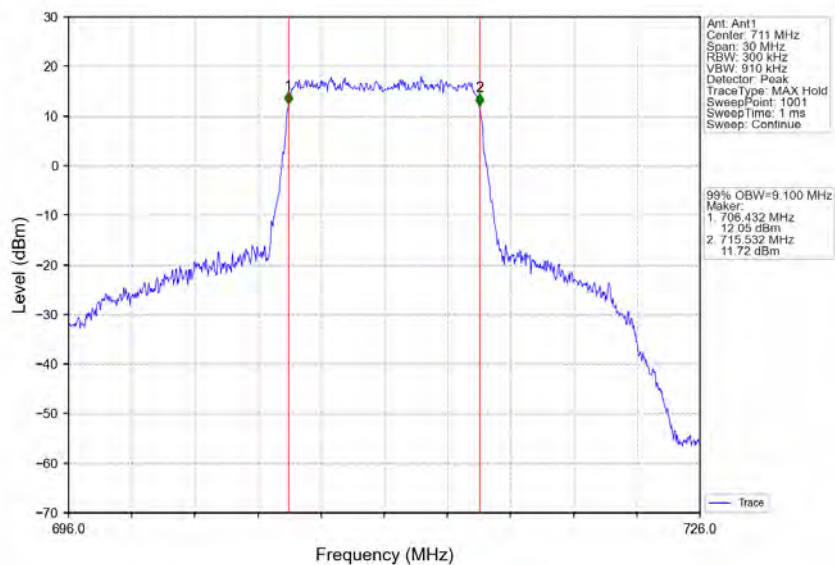
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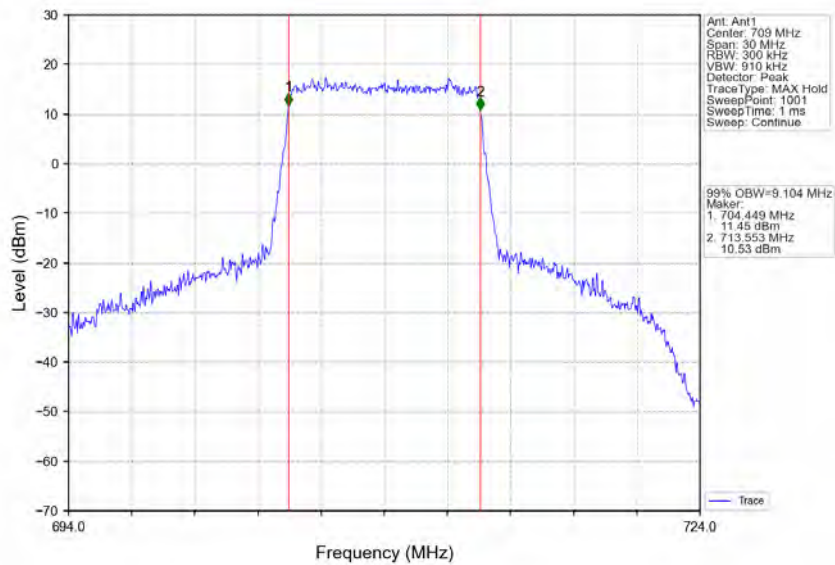


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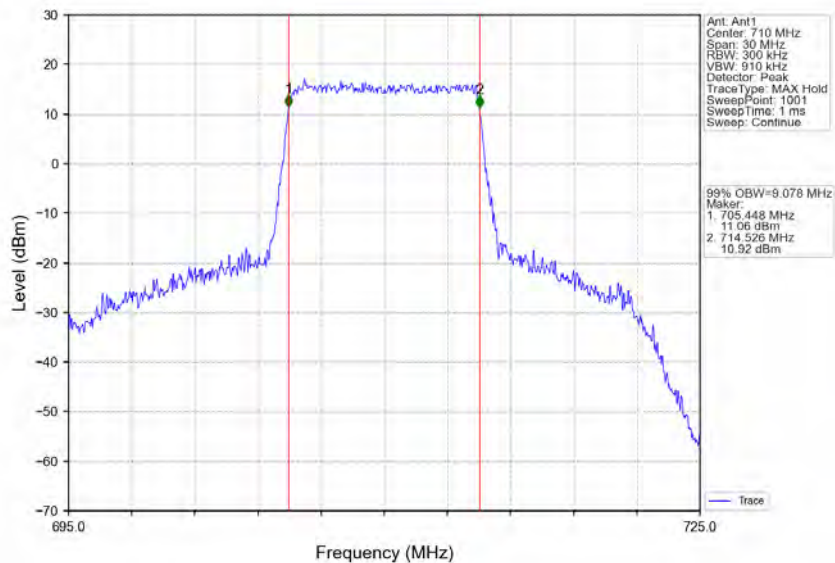
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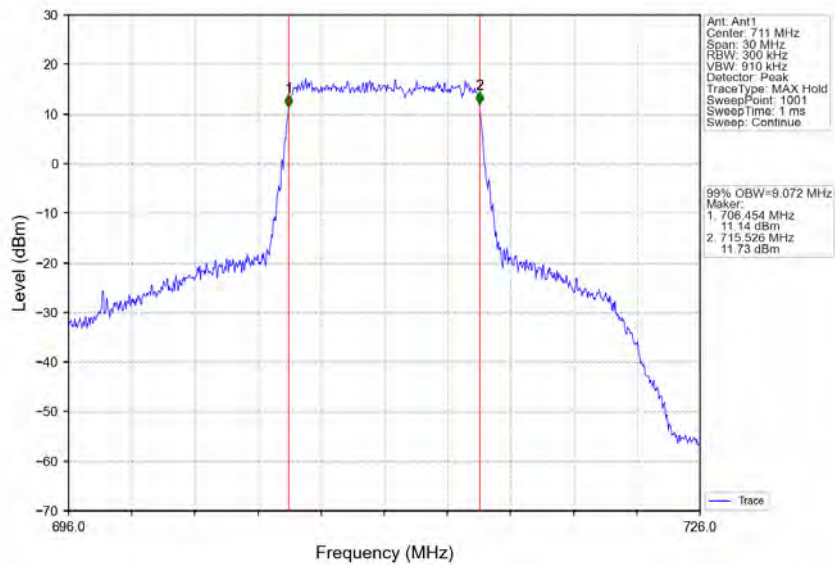
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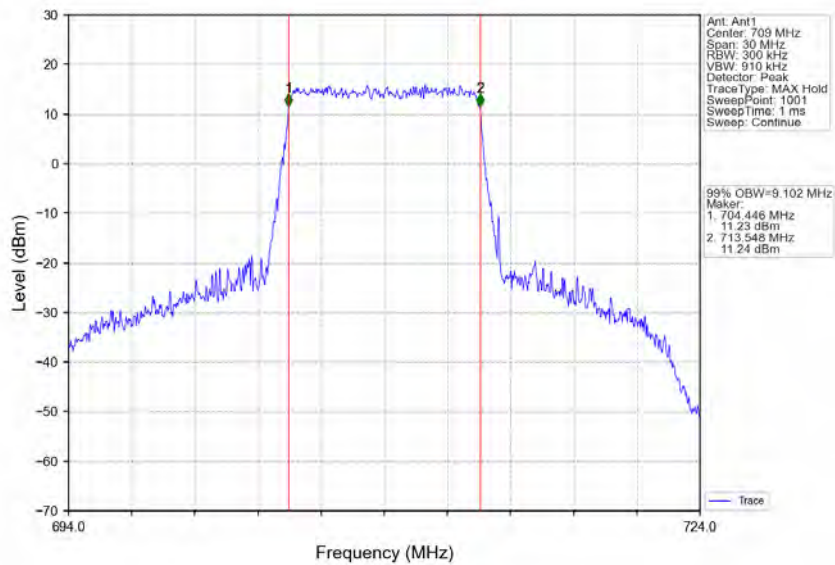
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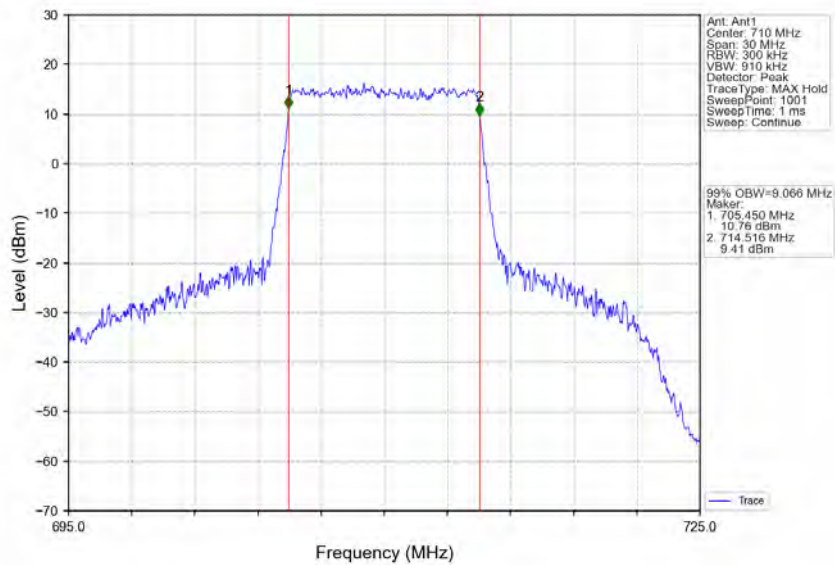
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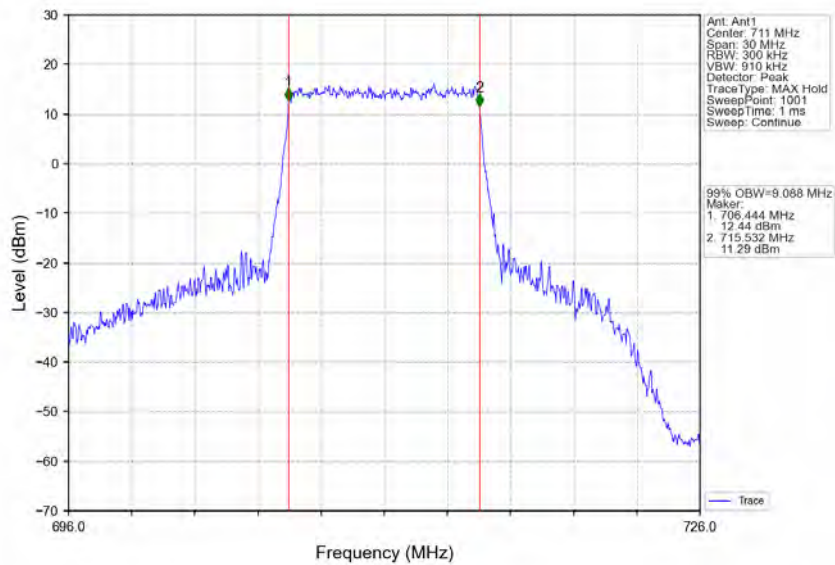
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4.2 Band17_XDB

4.2.1 Test Result

Band: 17 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	706.5	25	0	5.719	Pass
		710	25	0	5.748	Pass
		713.5	25	0	5.302	Pass
	16QAM	706.5	25	0	5.273	Pass
		710	25	0	5.676	Pass
		713.5	25	0	5.297	Pass
	64QAM	706.5	25	0	5.246	Pass
		710	25	0	5.261	Pass
		713.5	25	0	5.251	Pass
10	QPSK	709	50	0	10.269	Pass
		710	50	0	10.231	Pass
		711	50	0	10.276	Pass
	16QAM	709	50	0	10.210	Pass
		710	50	0	10.249	Pass
		711	50	0	10.297	Pass
	64QAM	709	50	0	10.287	Pass
		710	50	0	10.200	Pass
		711	50	0	10.236	Pass

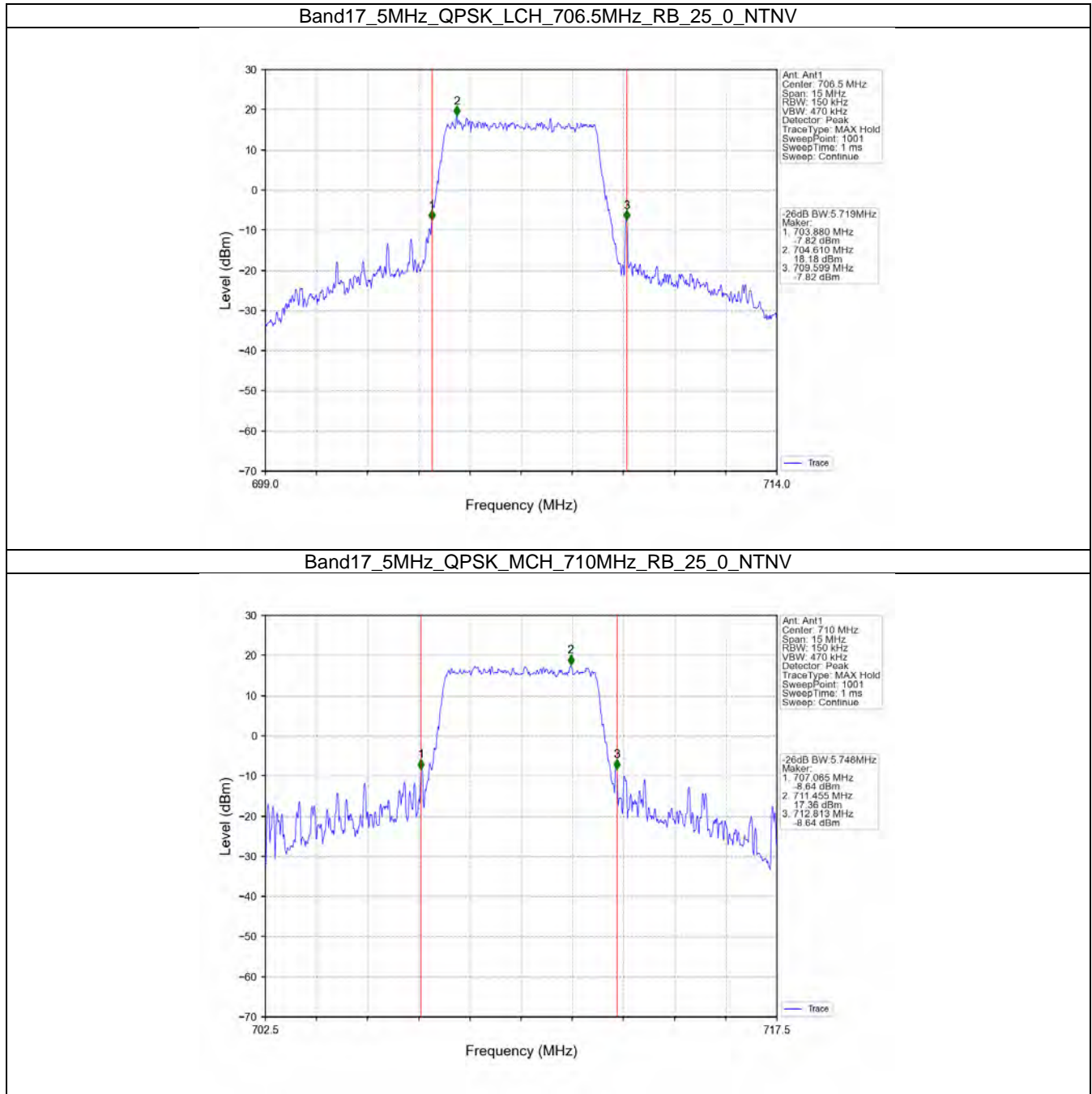


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4.2.2 Test Graph



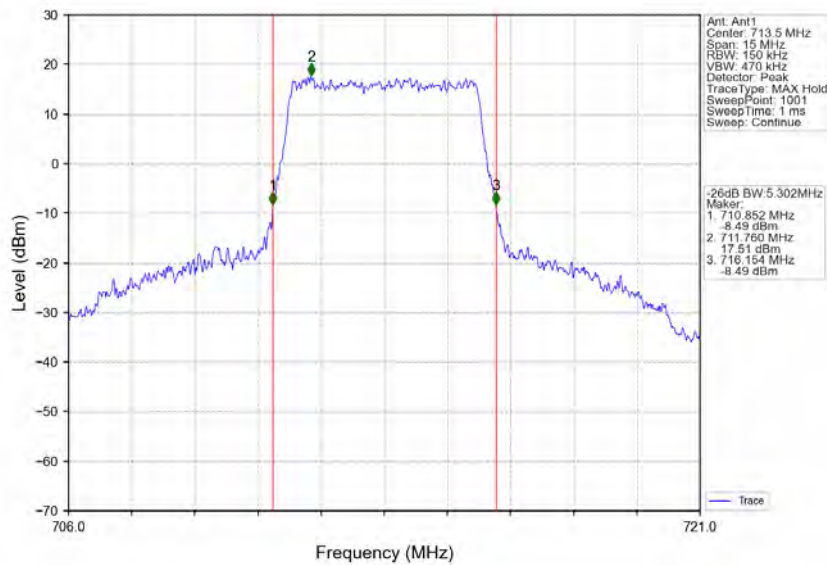
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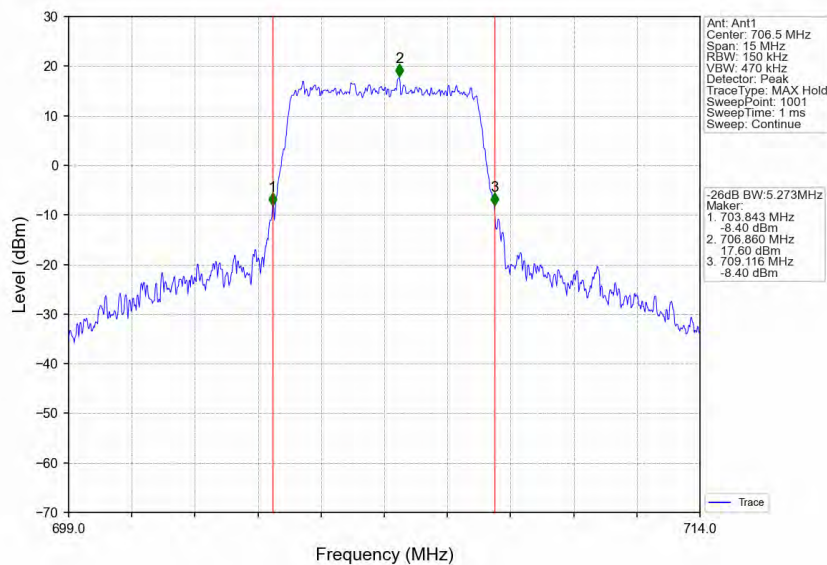
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Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



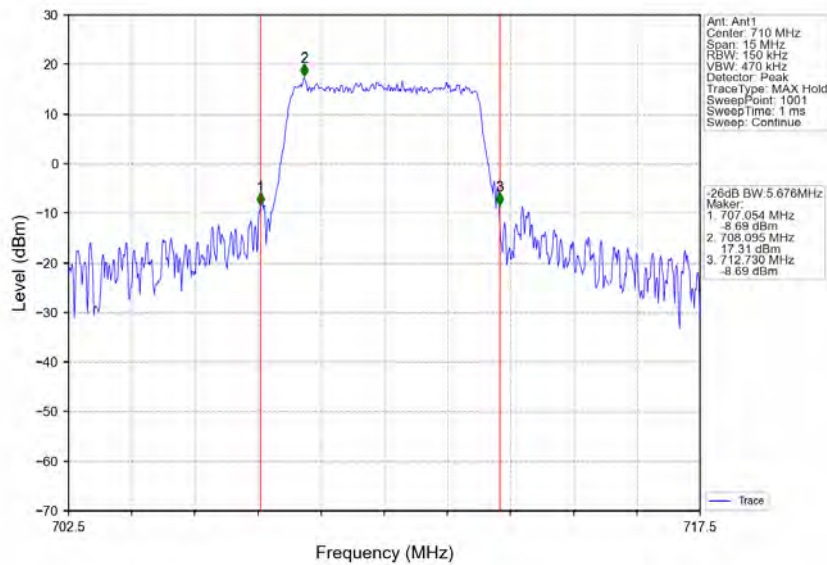
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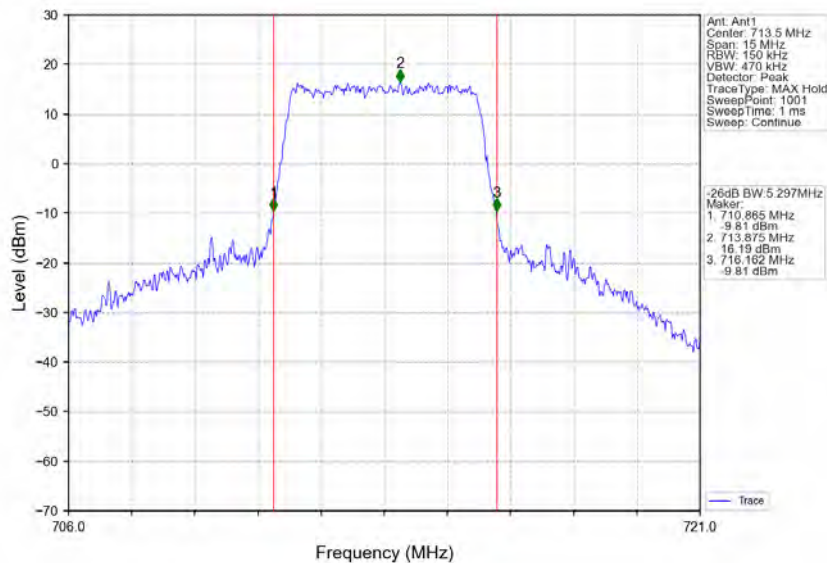
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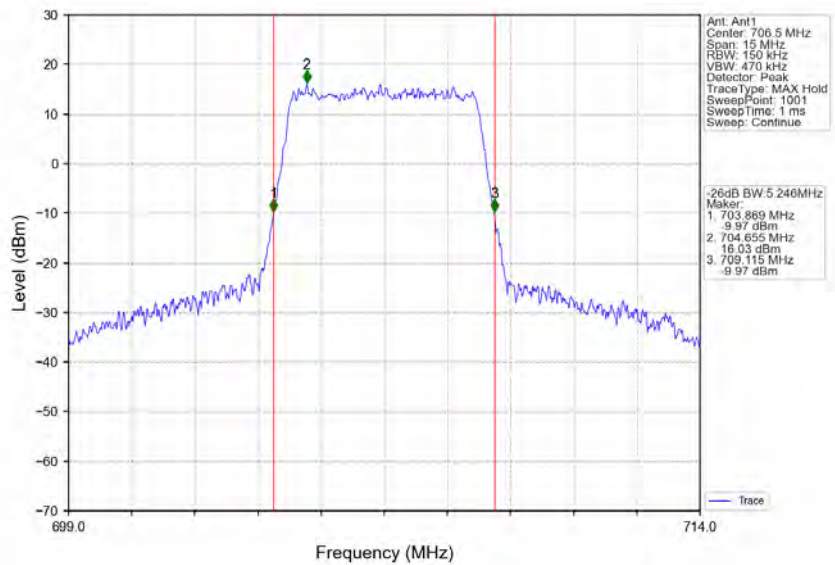
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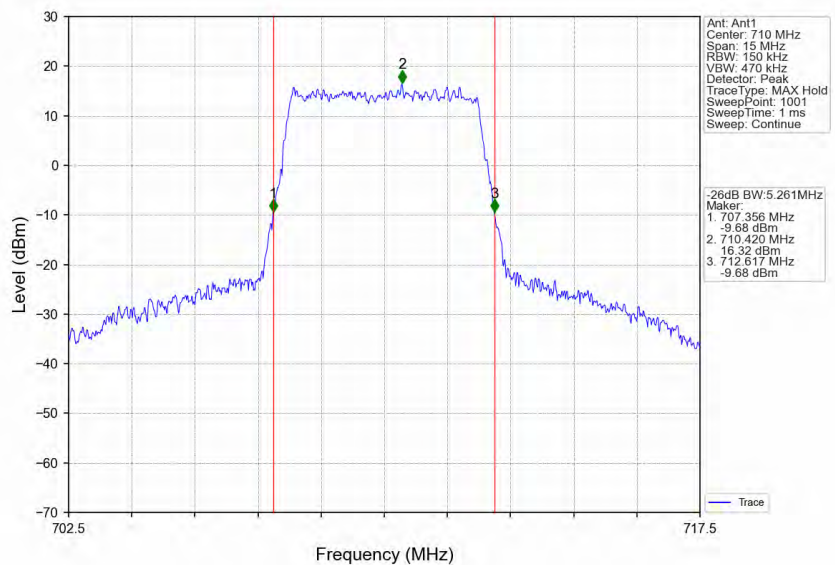
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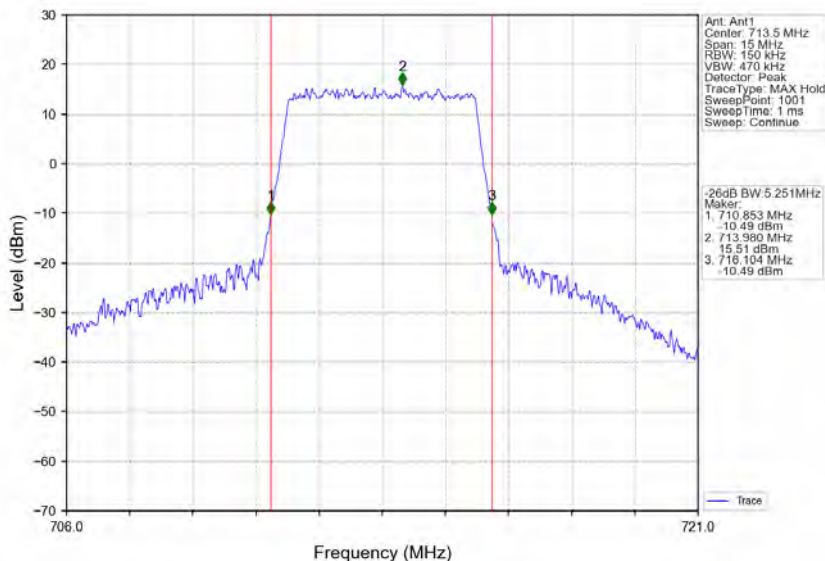
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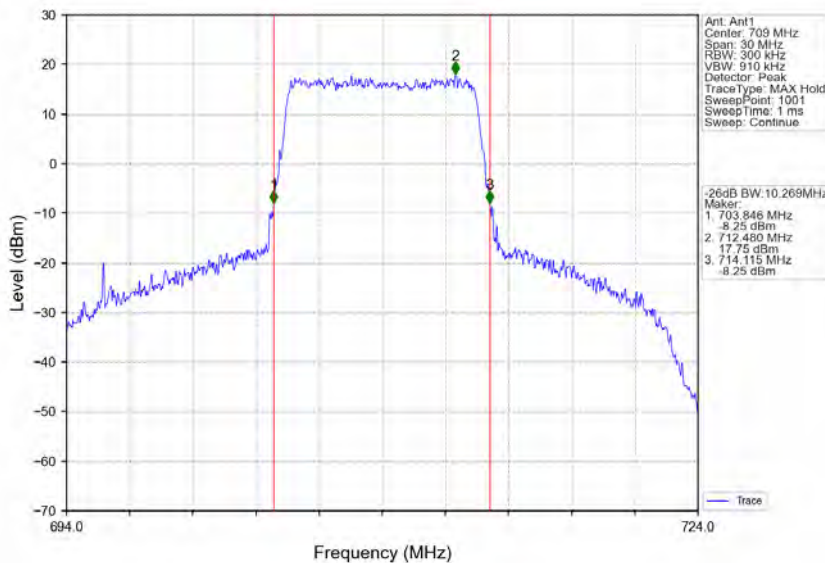
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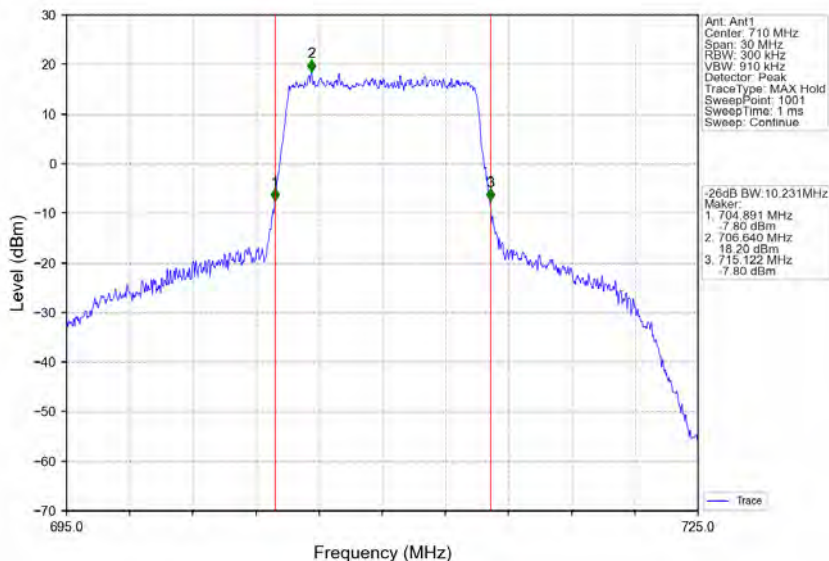
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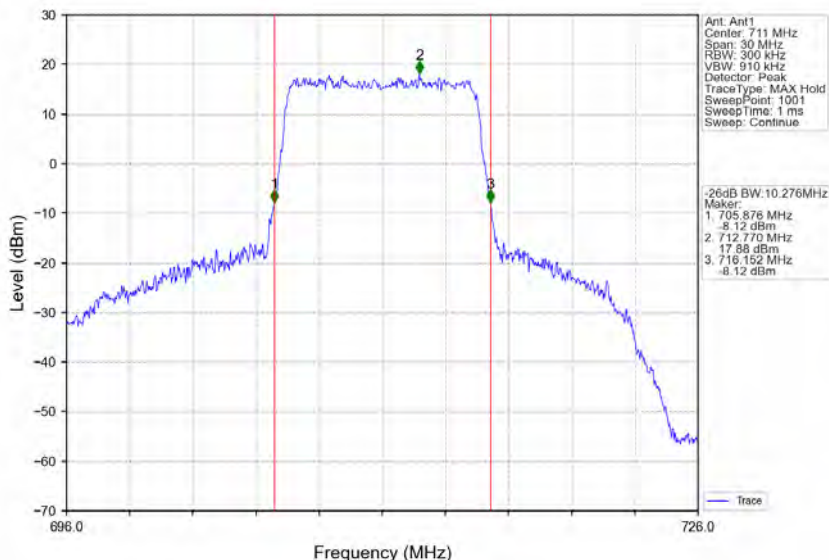
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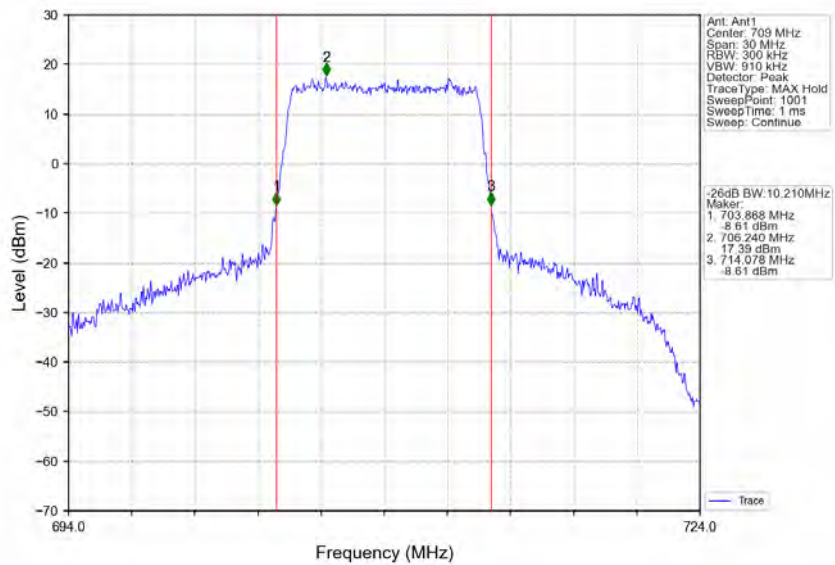
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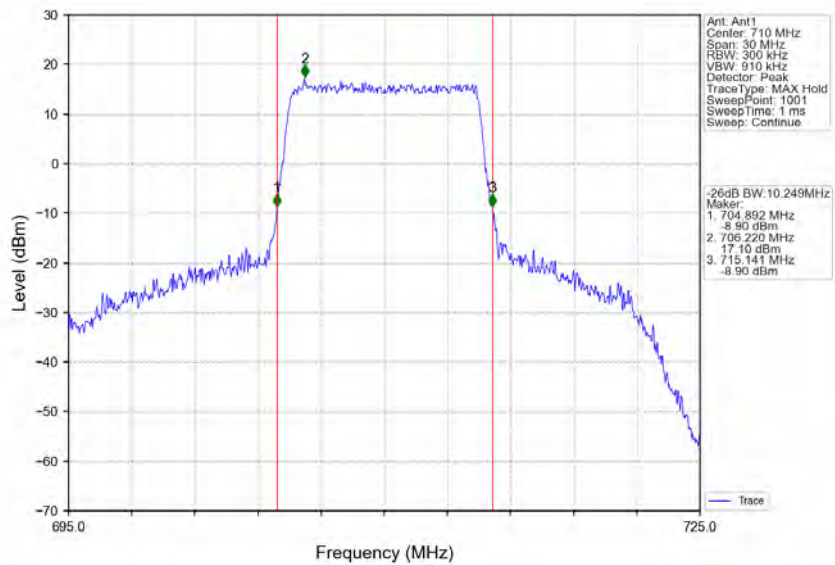
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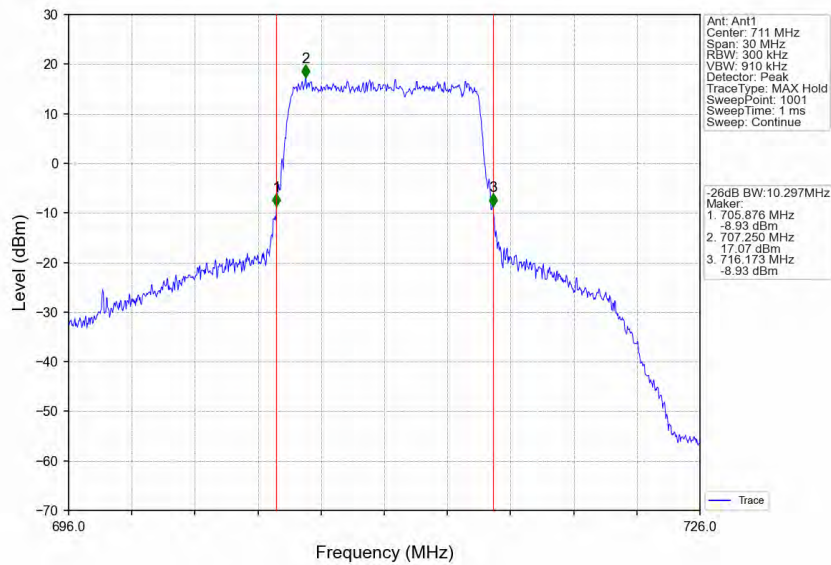
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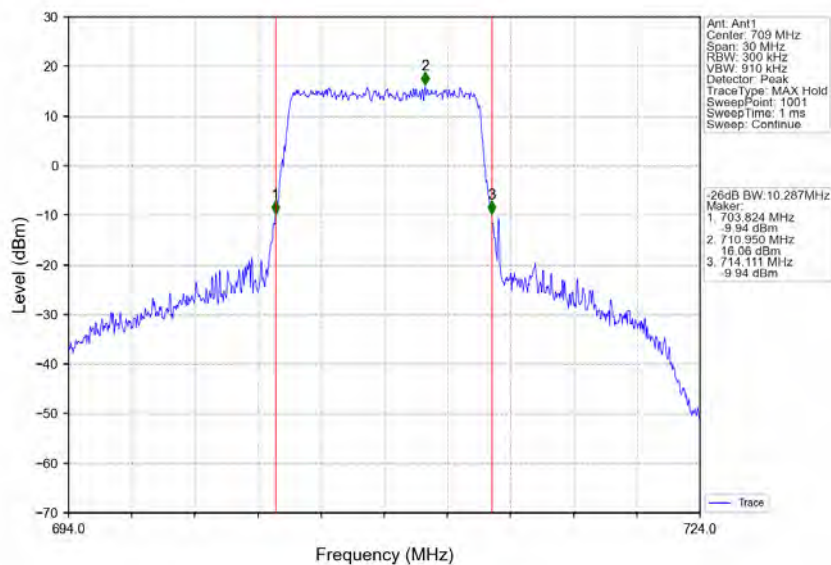
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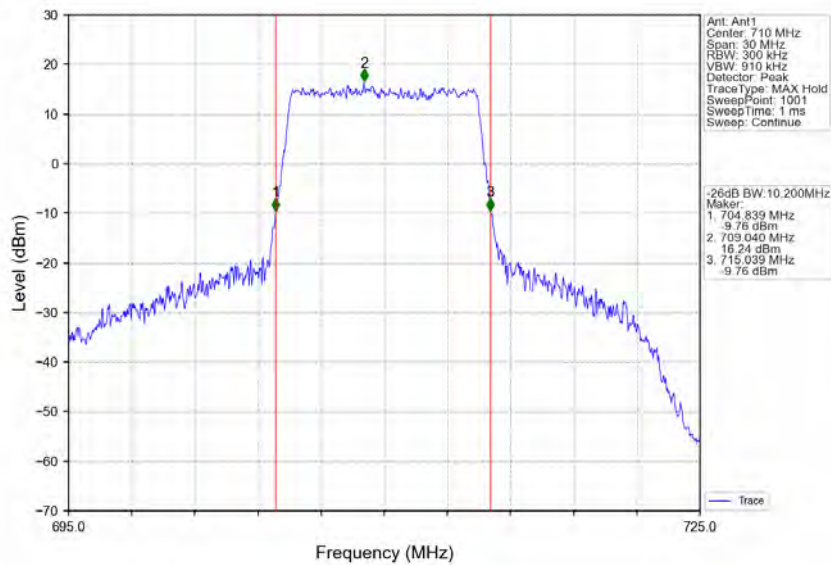
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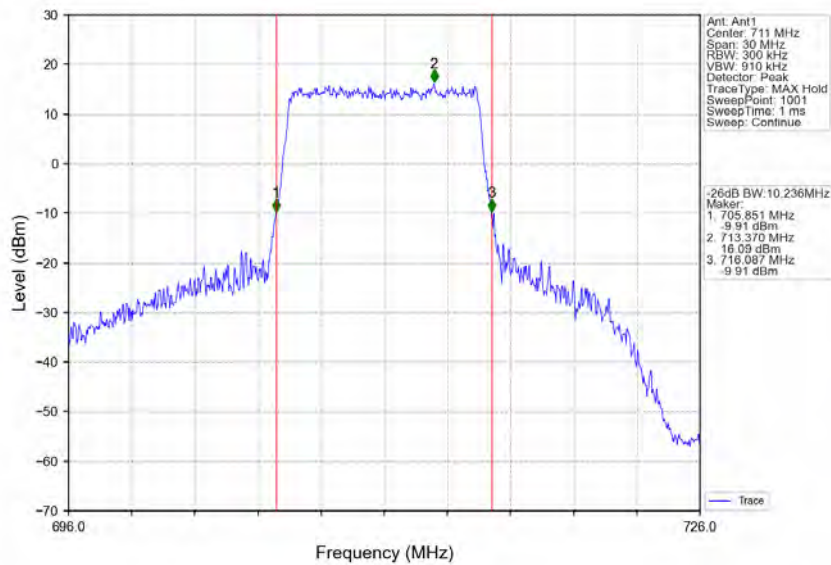
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5. Peak-Average Ratio

5.1 B17_5MHz

5.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	25	0	5.35	<=13	Pass
	710	25	0	5.32	<=13	Pass
	713.5	25	0	5.03	<=13	Pass
16QAM	706.5	25	0	6.04	<=13	Pass
	710	25	0	6.03	<=13	Pass
	713.5	25	0	5.78	<=13	Pass
64QAM	706.5	25	0	6.38	<=13	Pass
	710	25	0	6.37	<=13	Pass
	713.5	25	0	6.21	<=13	Pass



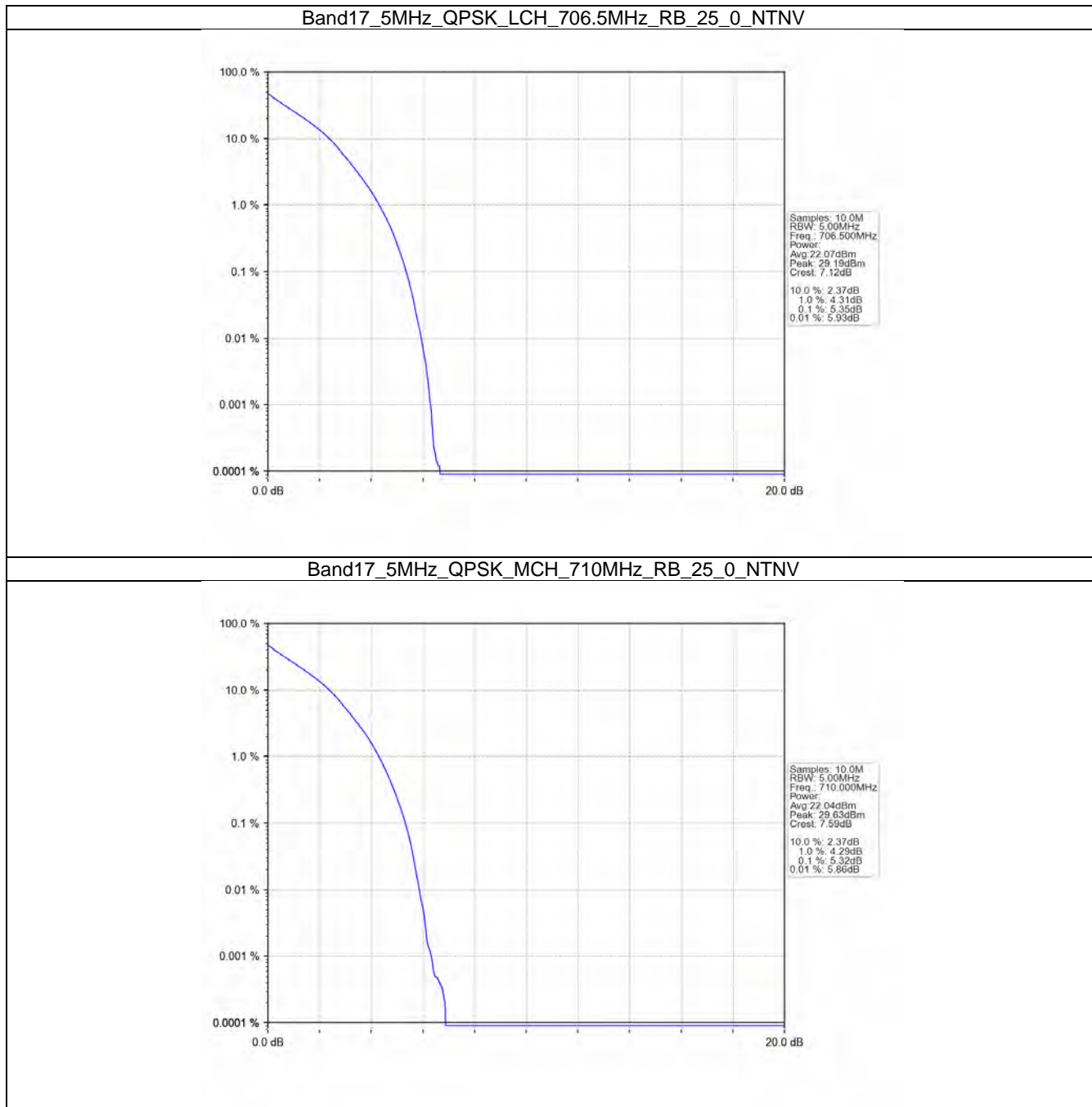
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5.1.2 Test Graph



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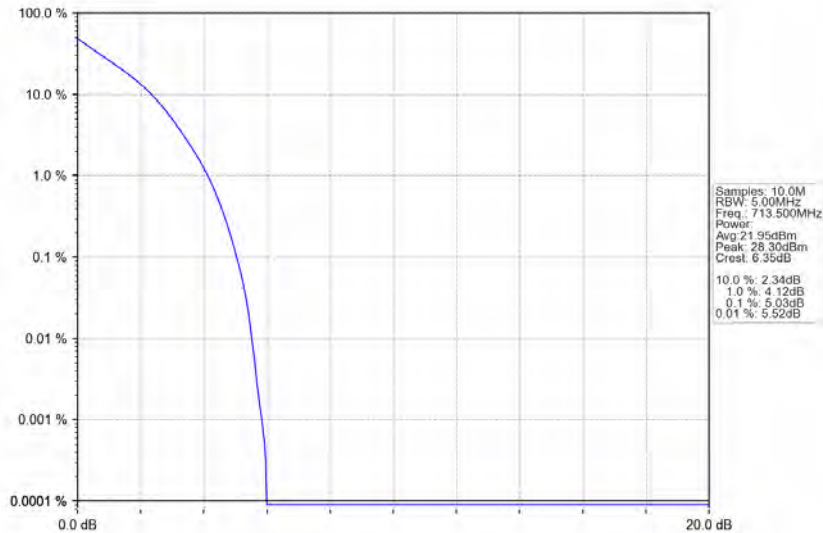
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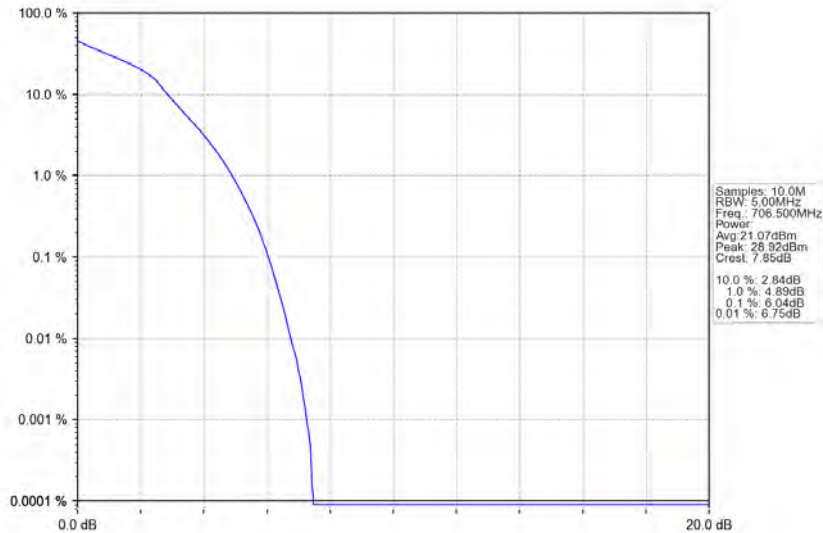
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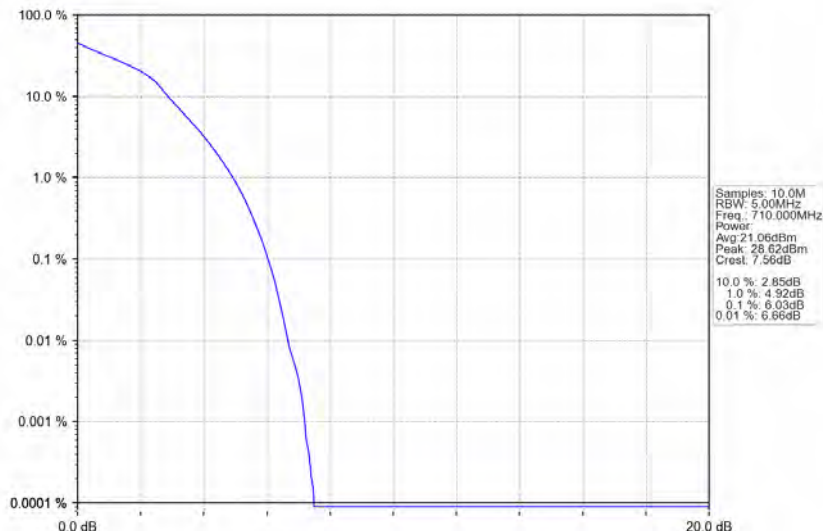
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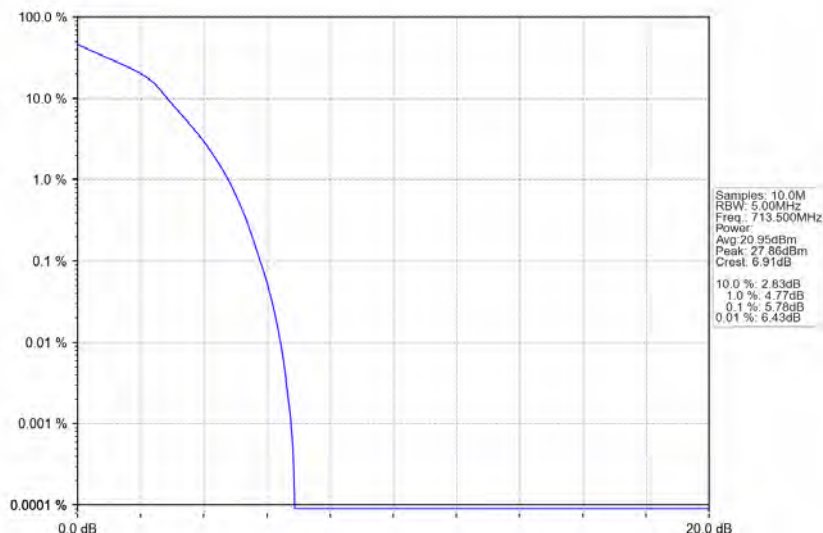
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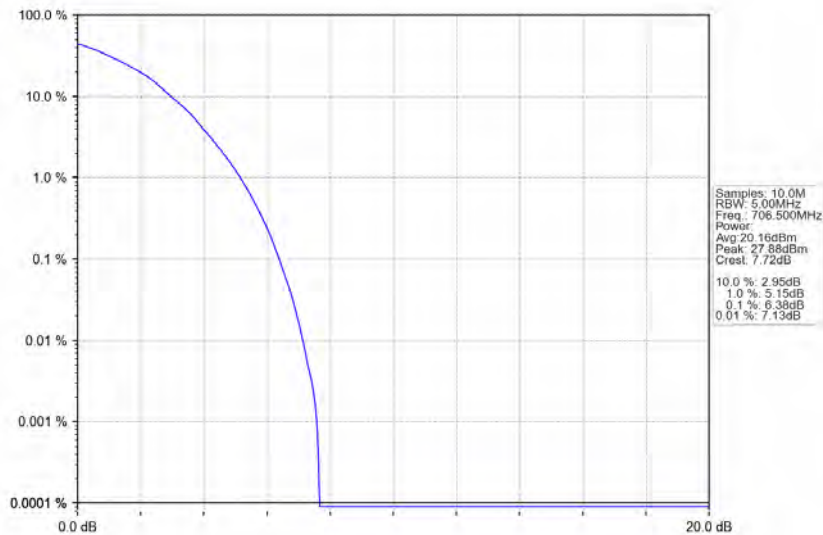
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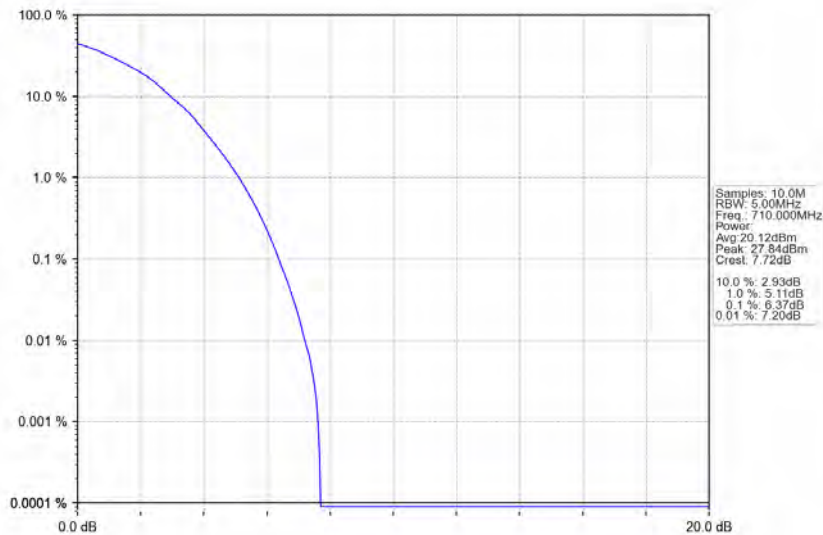
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Band17_5MHz_64QAM_LCH_706.5MHz_RB_25_0_NTNV



Band17_5MHz_64QAM_MCH_710MHz_RB_25_0_NTNV



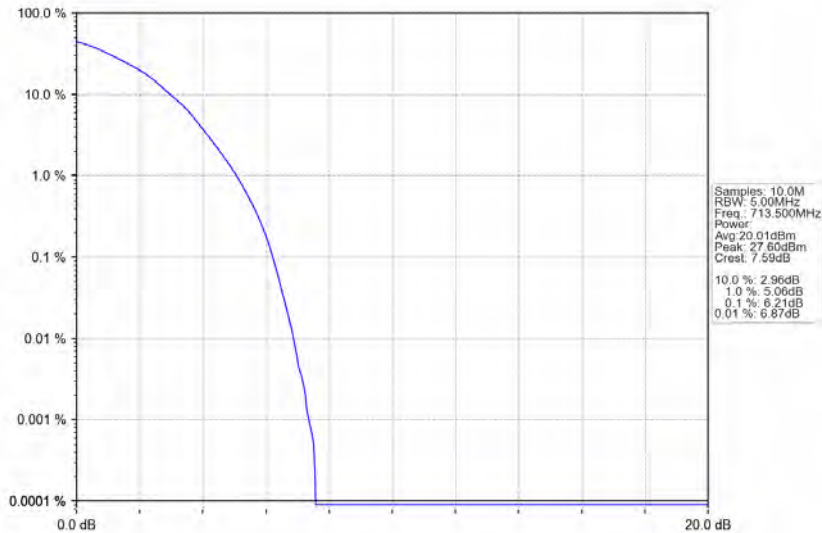
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5.2 B17_10MHz

5.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	709	50	0	5.43	<=13	Pass
	710	50	0	5.47	<=13	Pass
	711	50	0	5.41	<=13	Pass
16QAM	709	50	0	6.49	<=13	Pass
	710	50	0	6.41	<=13	Pass
	711	50	0	6.49	<=13	Pass
64QAM	709	50	0	6.70	<=13	Pass
	710	50	0	6.67	<=13	Pass
	711	50	0	6.69	<=13	Pass

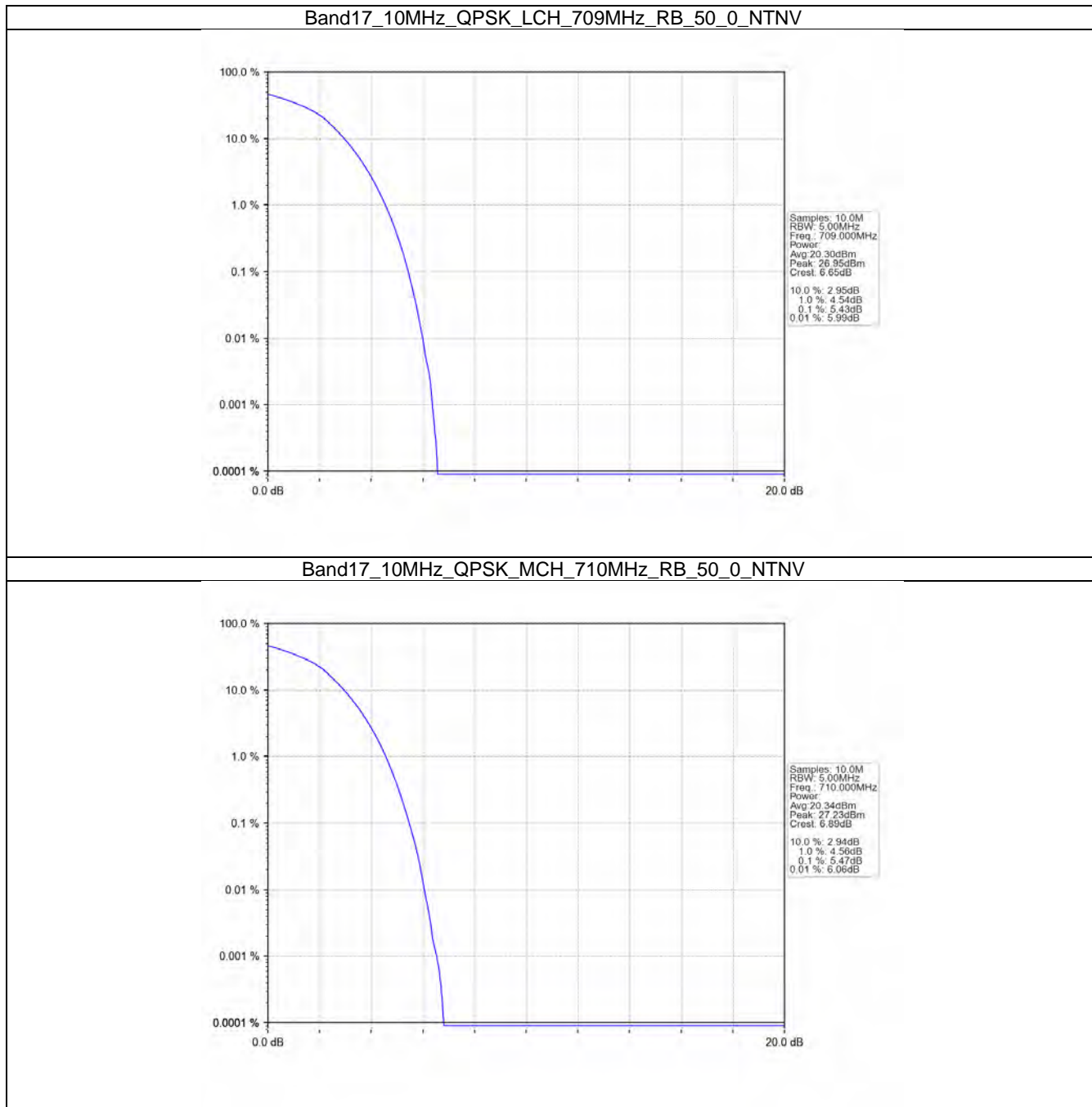


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5.2.2 Test Graph



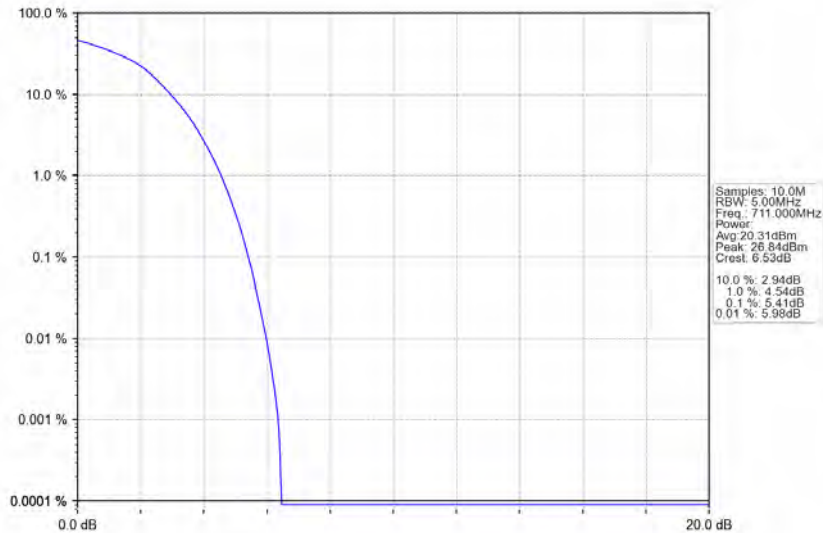
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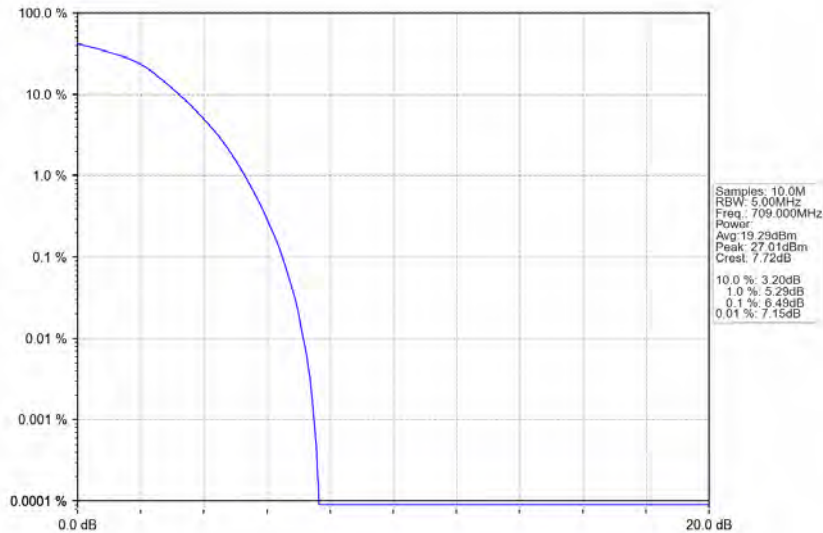
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Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



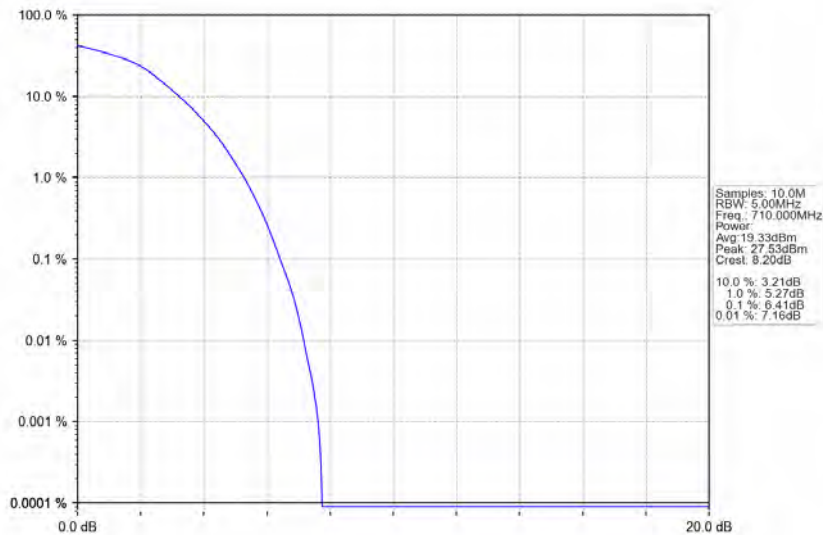
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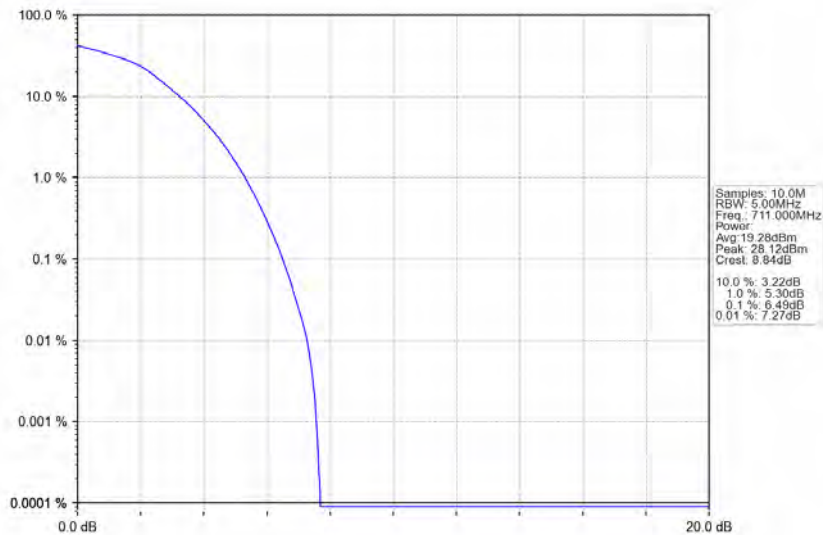
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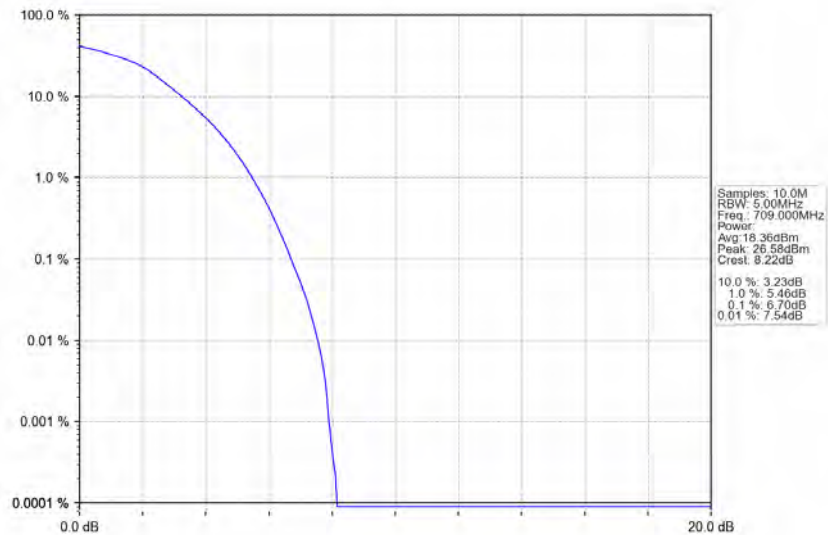
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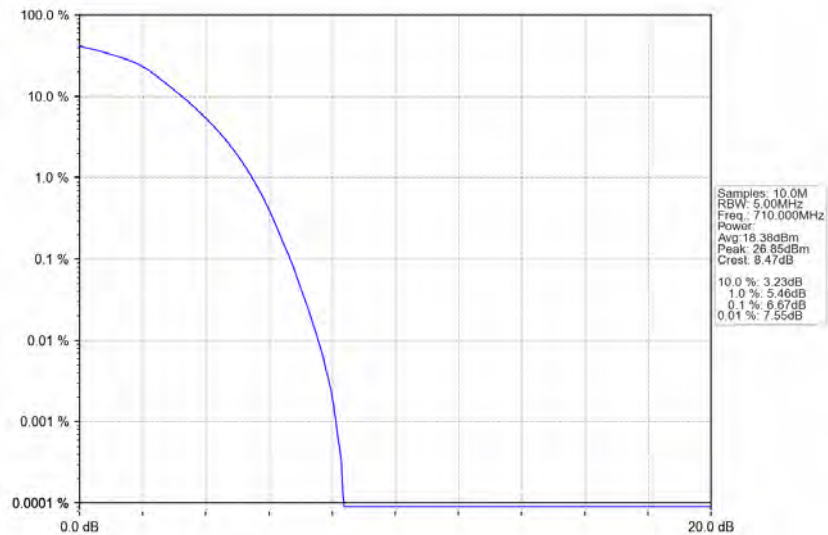
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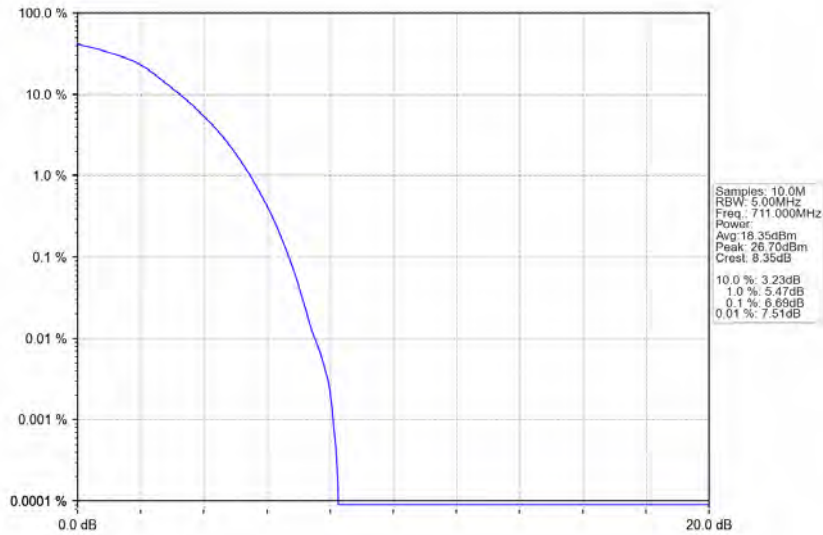
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6. Spurious Emission

6.1 B17_5MHz

6.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	1	0	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
	710	1	0	Refer To Test Graph	Pass	
		1	0	Refer To Test Graph	Pass	
	713.5	1	24	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
16QAM	706.5	1	0	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
	710	1	0	Refer To Test Graph	Pass	
		1	0	Refer To Test Graph	Pass	
	713.5	1	24	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
64QAM	706.5	1	0	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
	710	1	0	Refer To Test Graph	Pass	
		1	0	Refer To Test Graph	Pass	
	713.5	1	24	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	



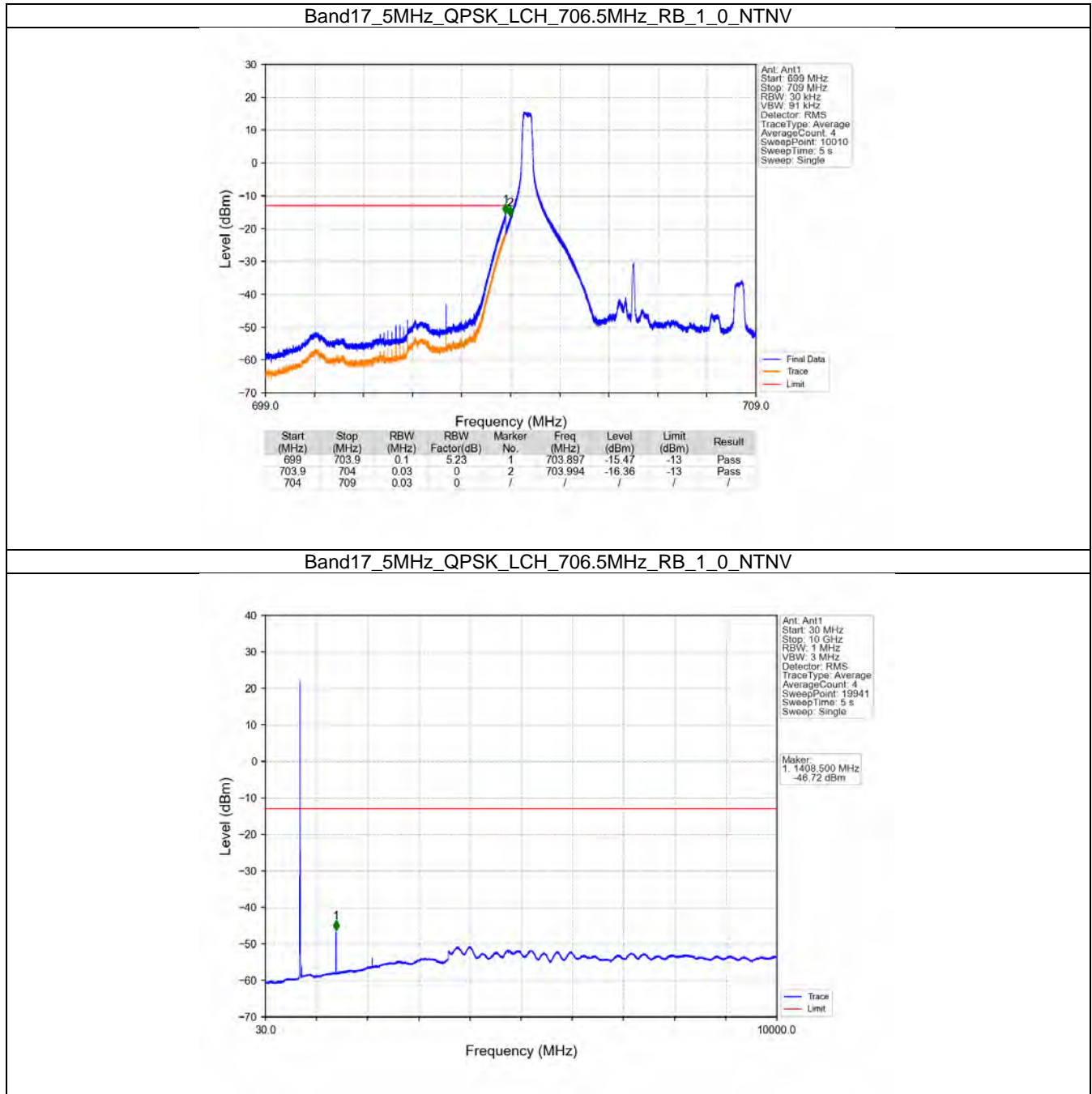
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6.1.2 Test Graph

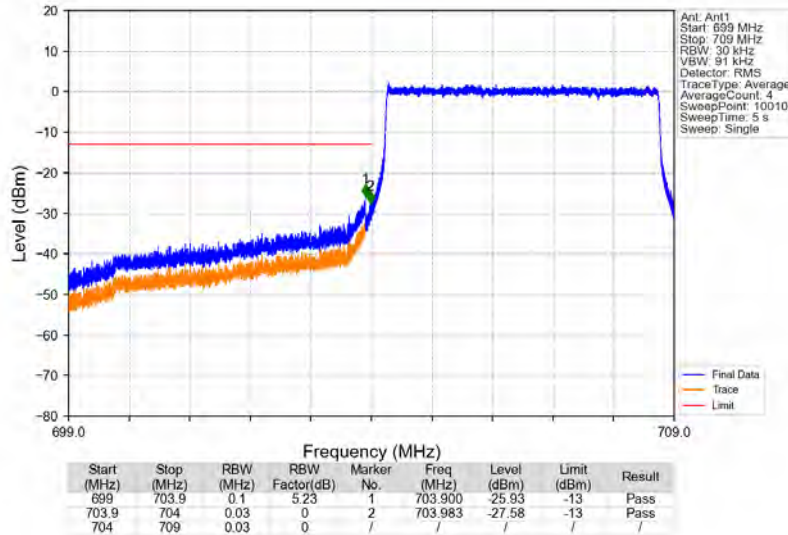


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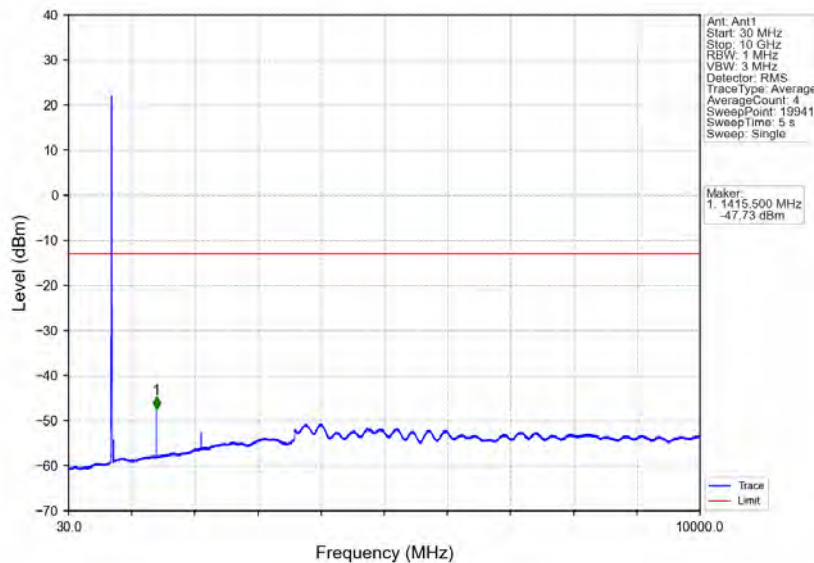
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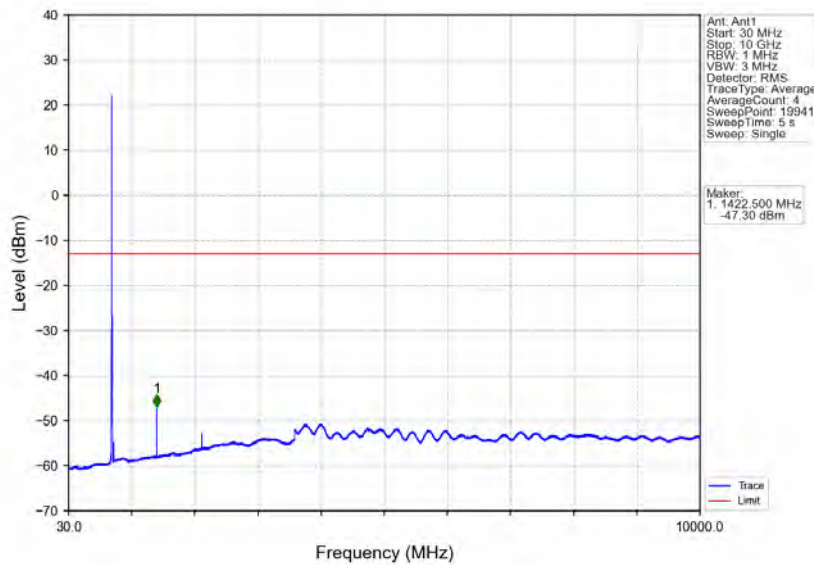
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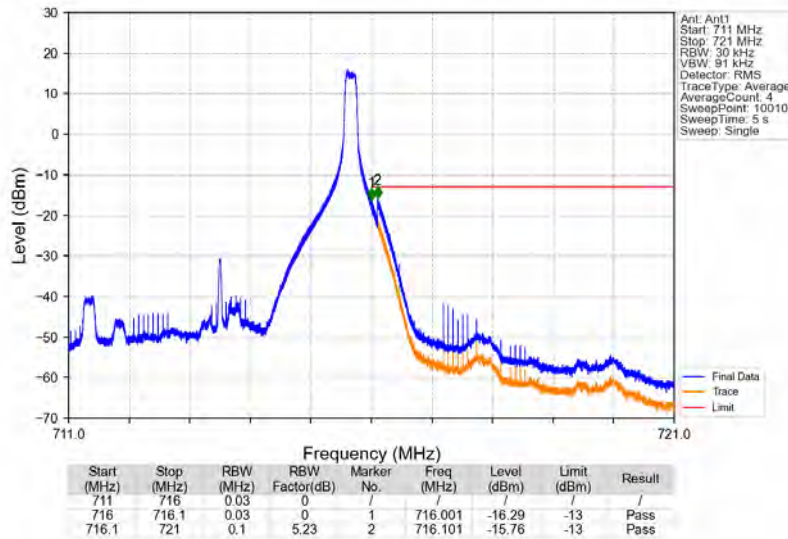


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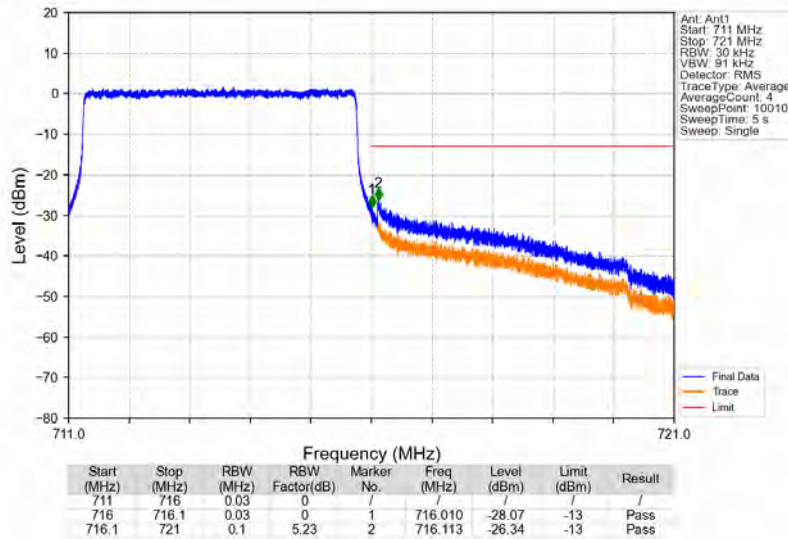
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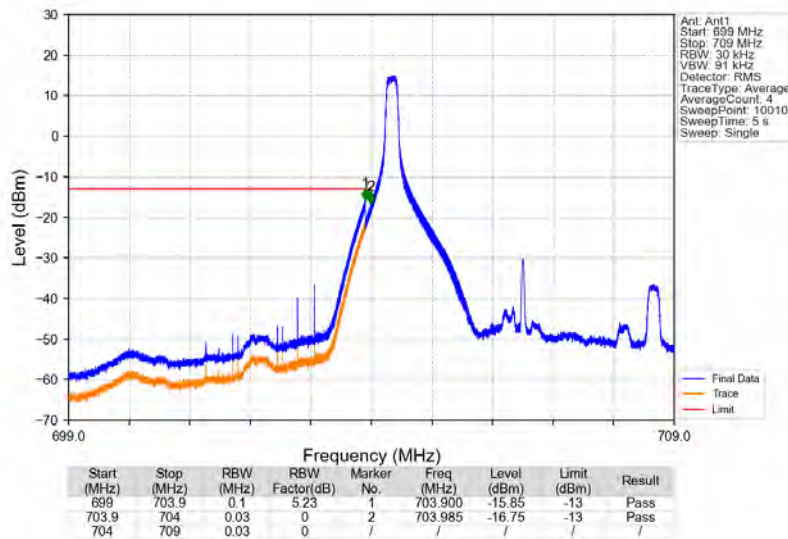
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Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



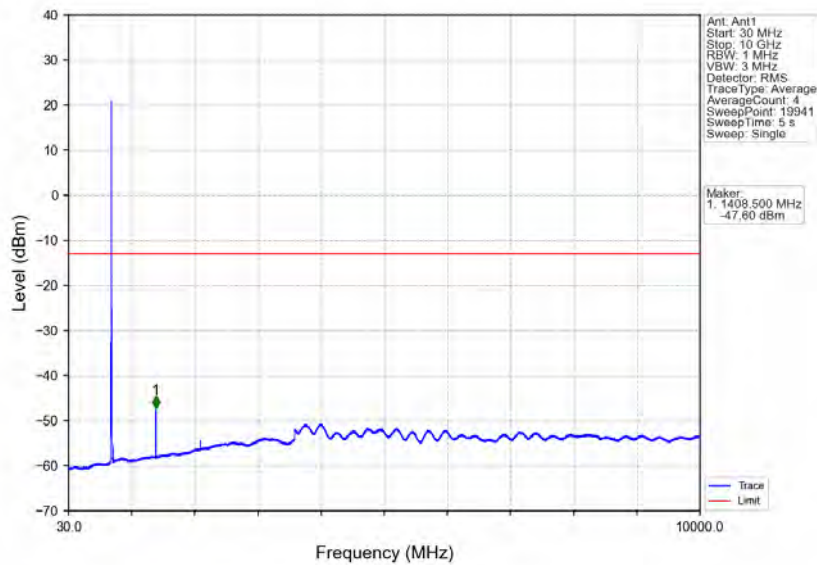
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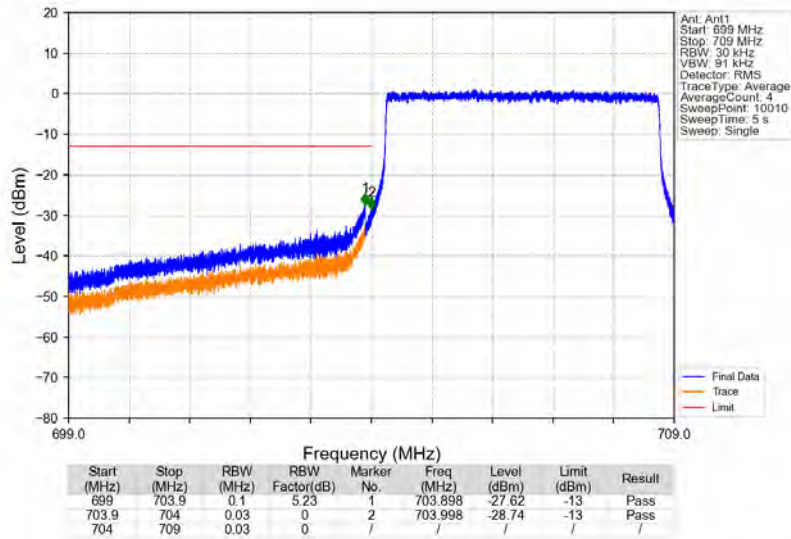
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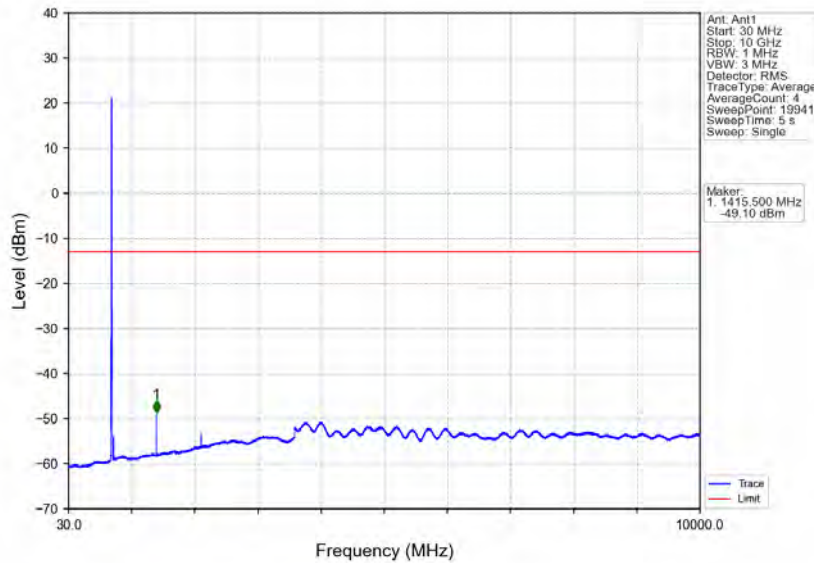
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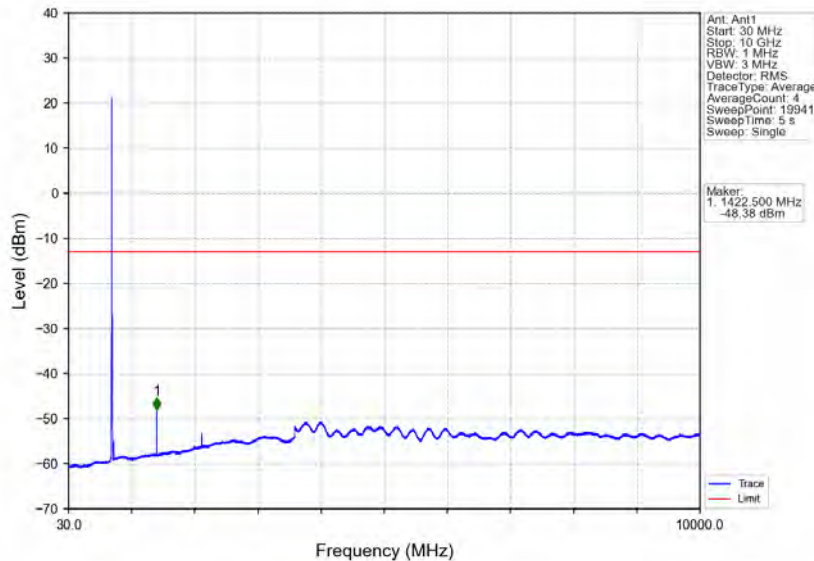
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Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



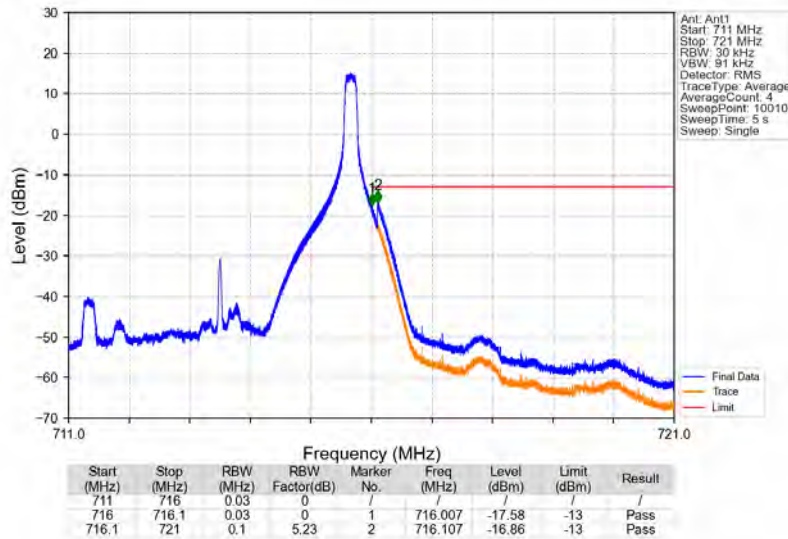
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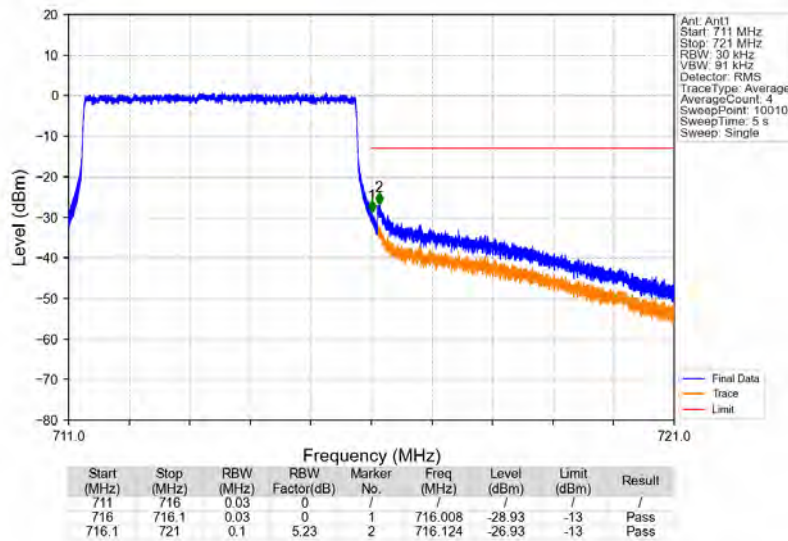
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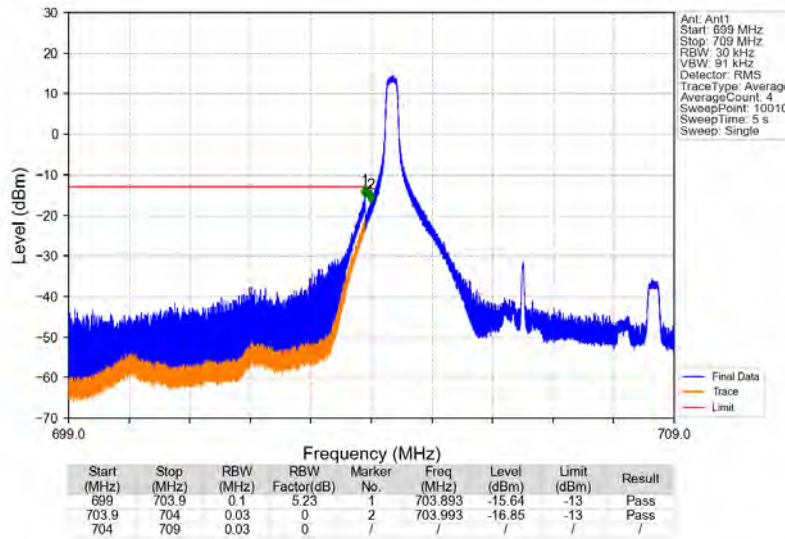
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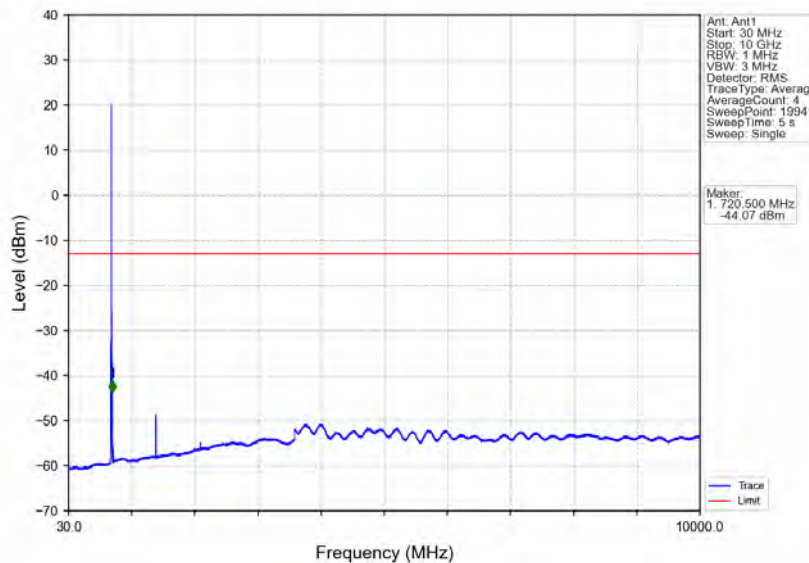
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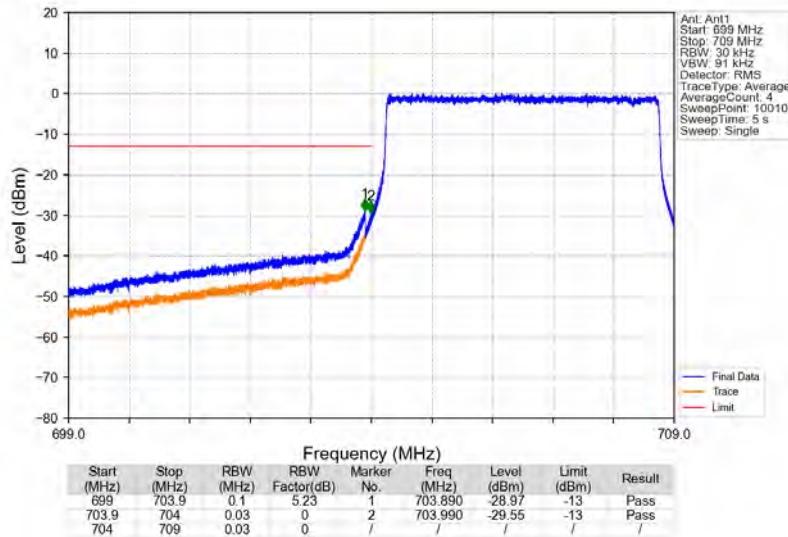
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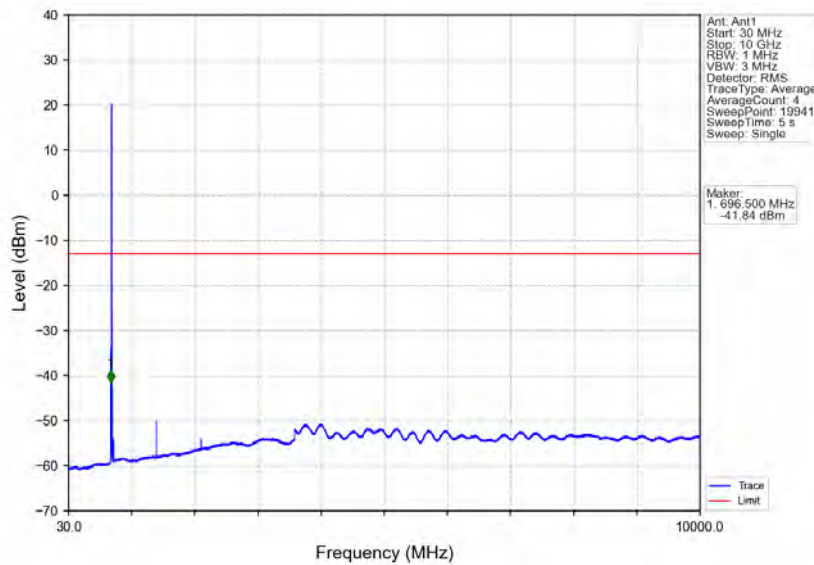
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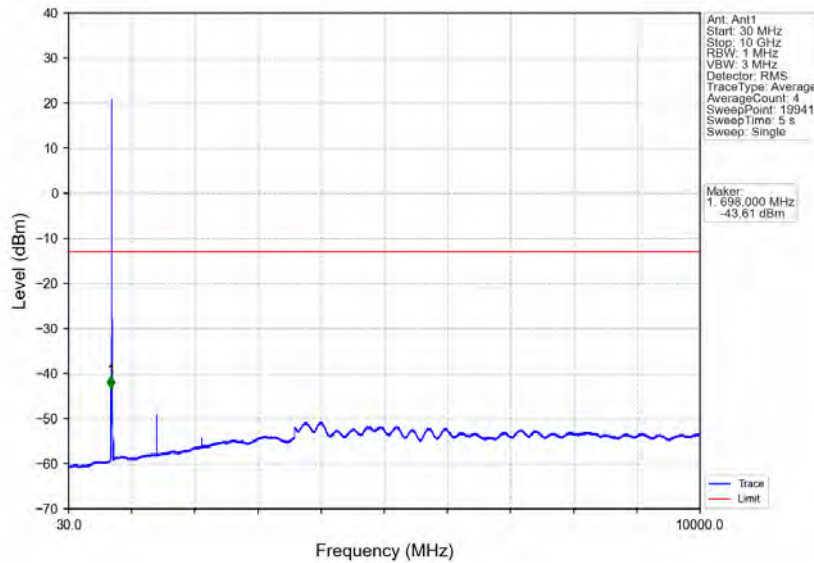
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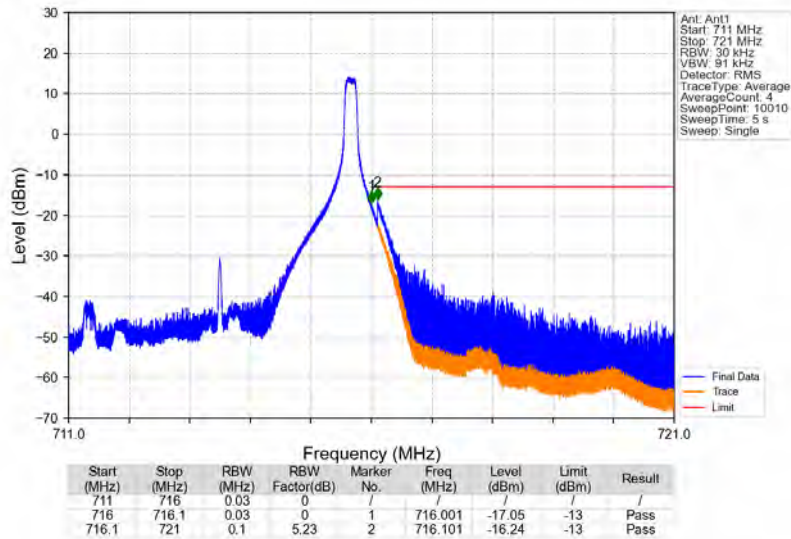
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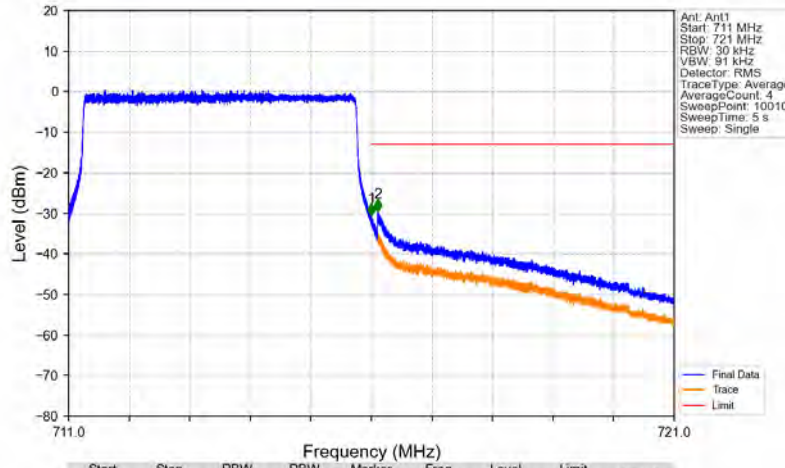
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Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.004	-30.66	-13	Pass
716.1	721	0.1	5.23	2	716.109	-29.64	-13	Pass



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6.2 B17_10MHz

6.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	709	1	0	Refer To Test Graph		Pass
		50	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
			0	Refer To Test Graph		Pass
16QAM	709	1	0	Refer To Test Graph		Pass
		50	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
			0	Refer To Test Graph		Pass
64QAM	709	1	0	Refer To Test Graph		Pass
		50	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
			0	Refer To Test Graph		Pass

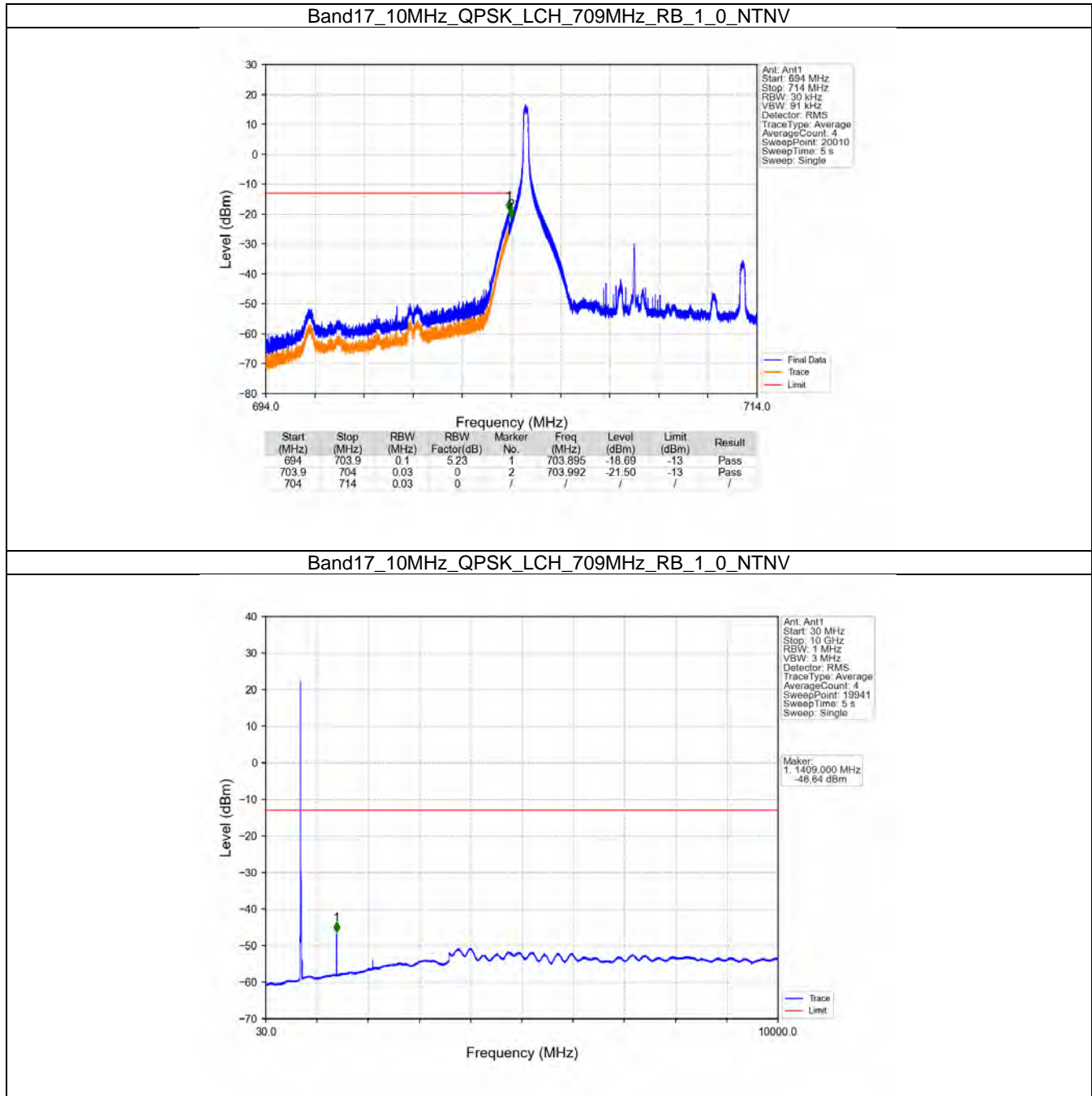


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6.2.2 Test Graph



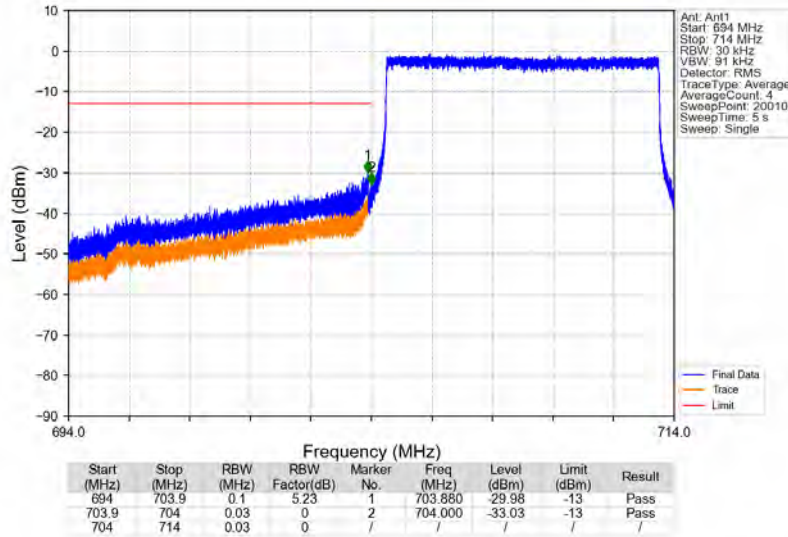
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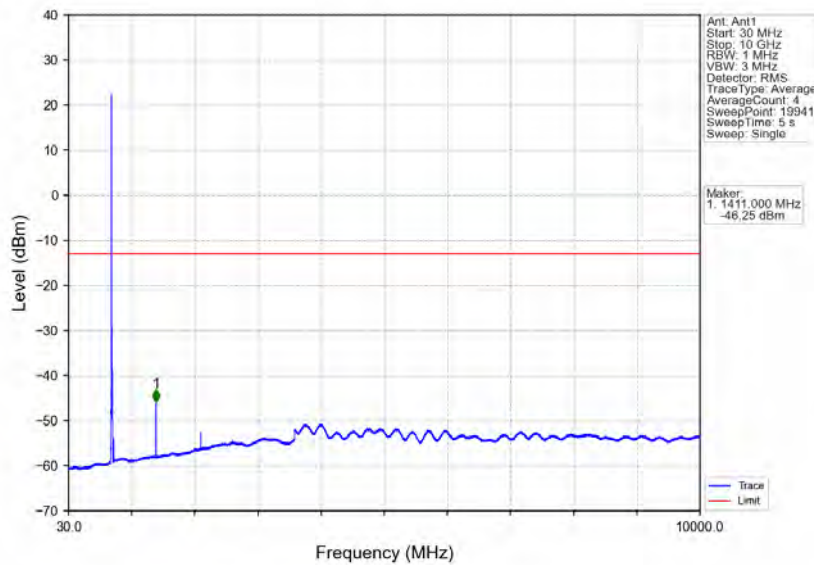
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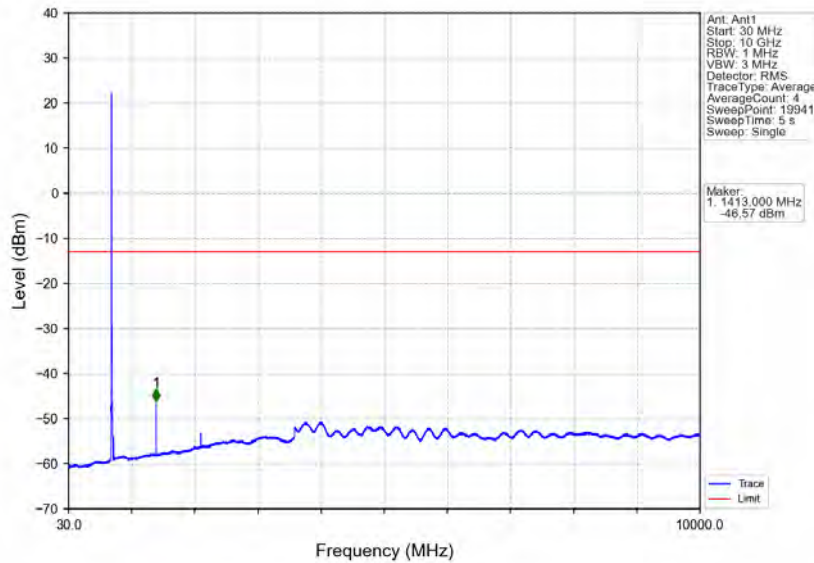
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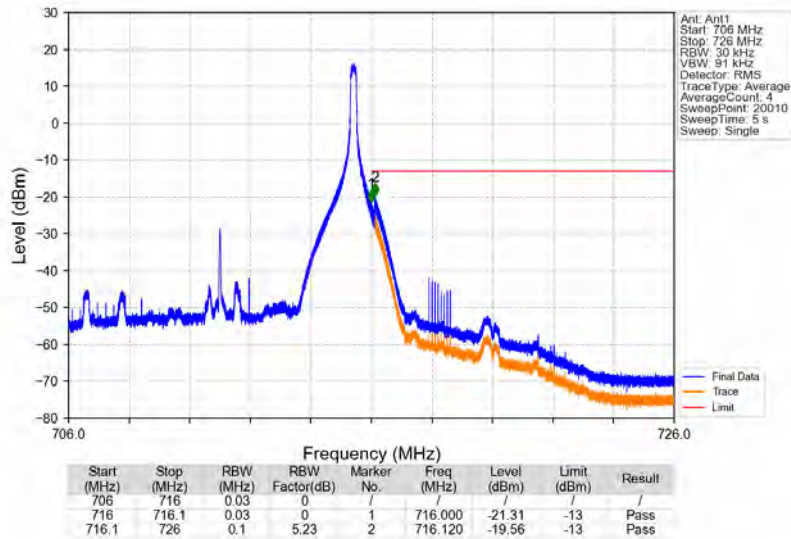
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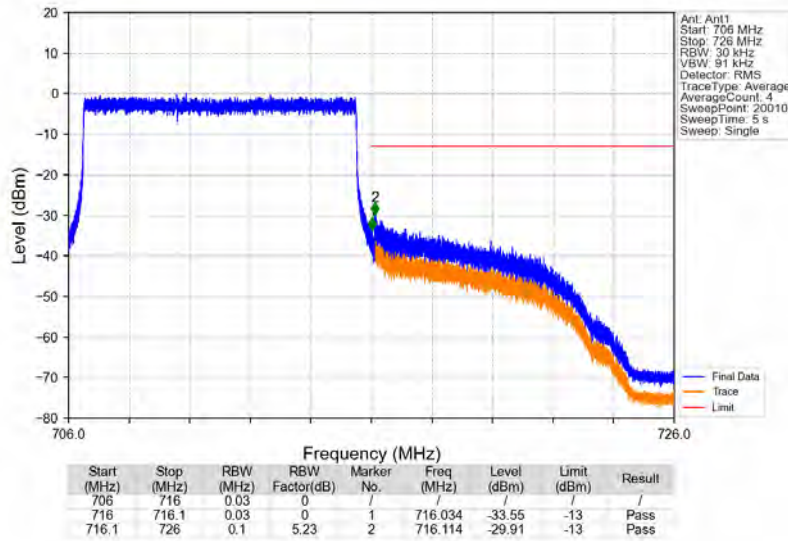
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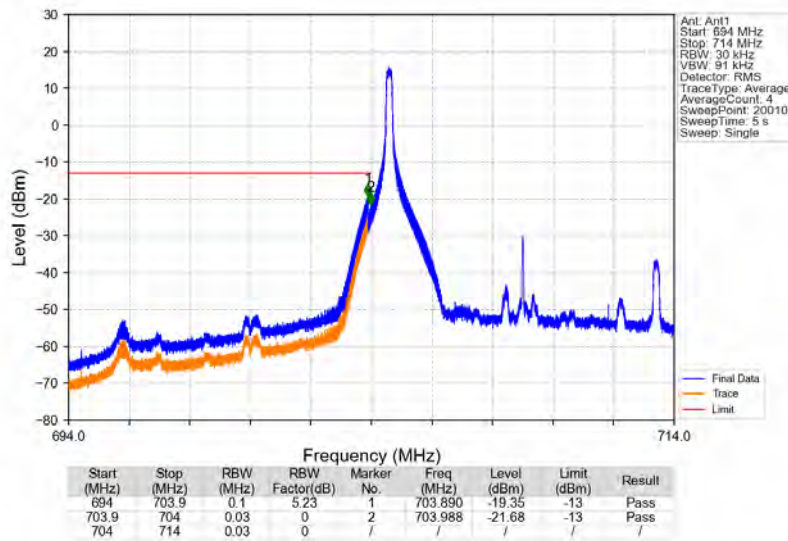
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Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV



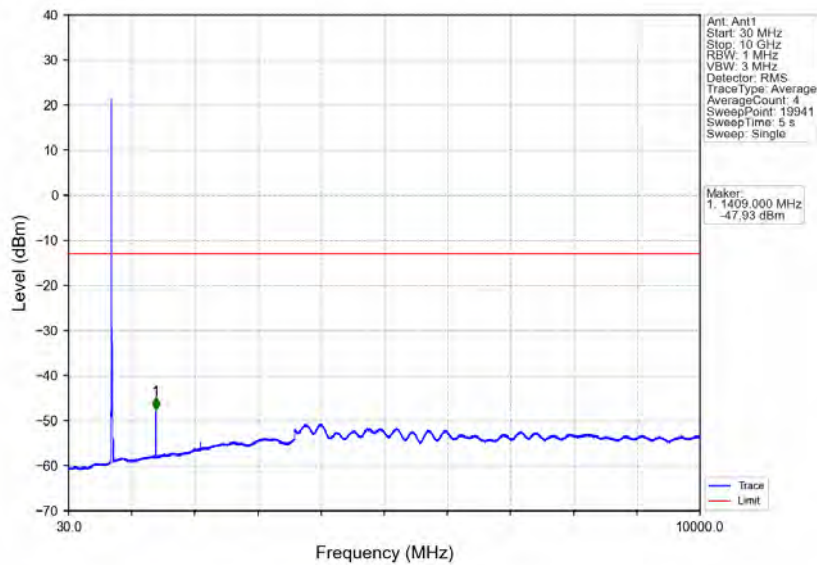
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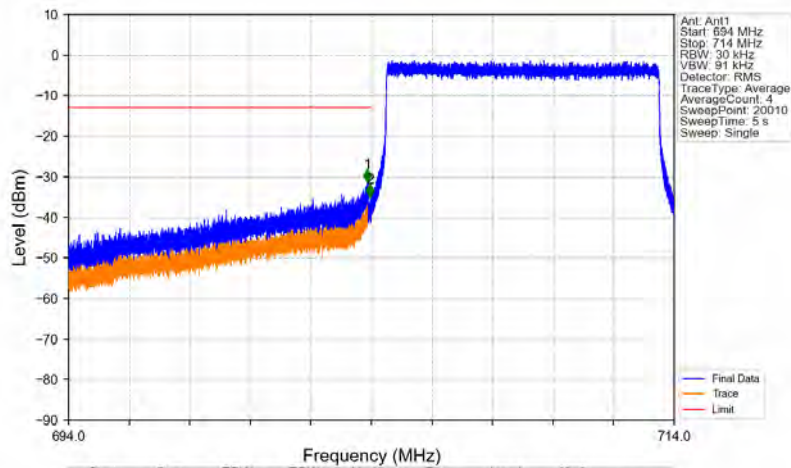
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Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV



Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	5.23	1	703.868	-31.34	-13	Pass
703.9	704	0.03	0	2	703.964	-34.99	-13	Pass
704	714	0.03	0	/	/	/	/	/



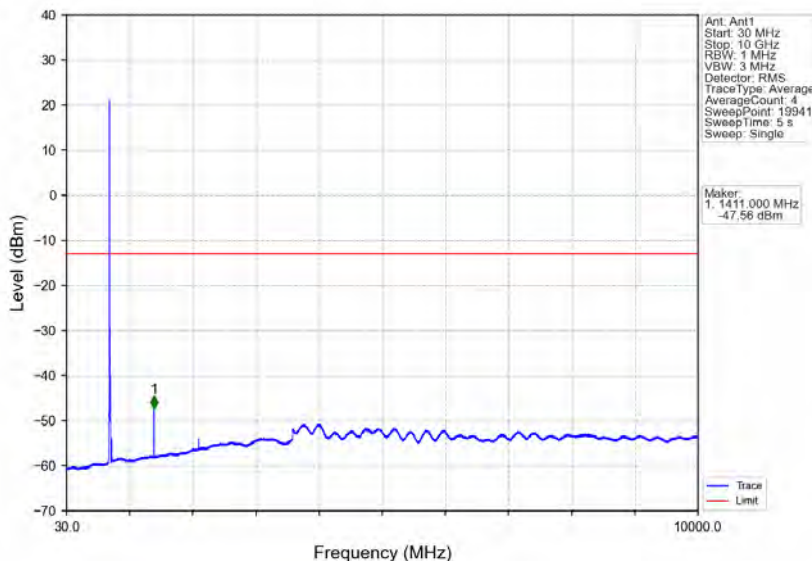
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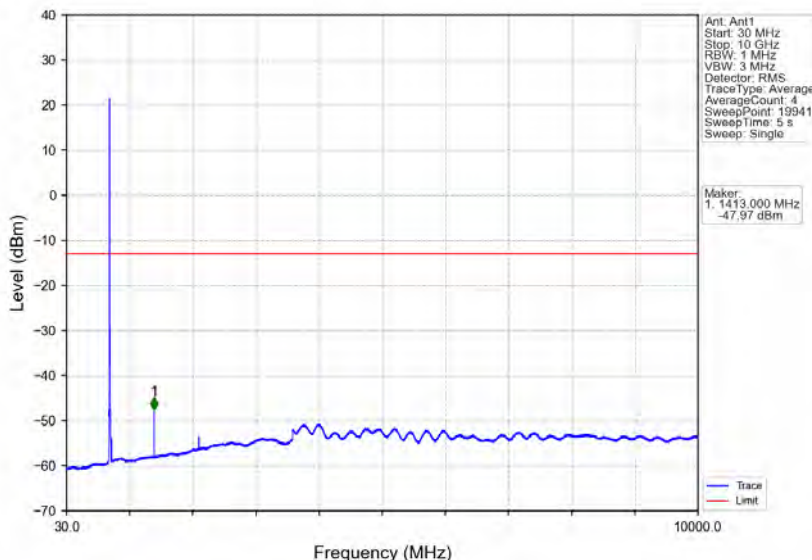
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Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



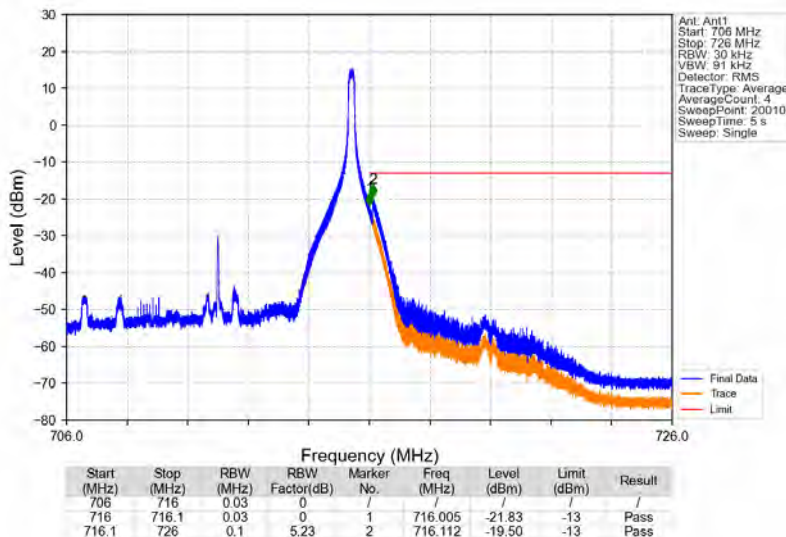
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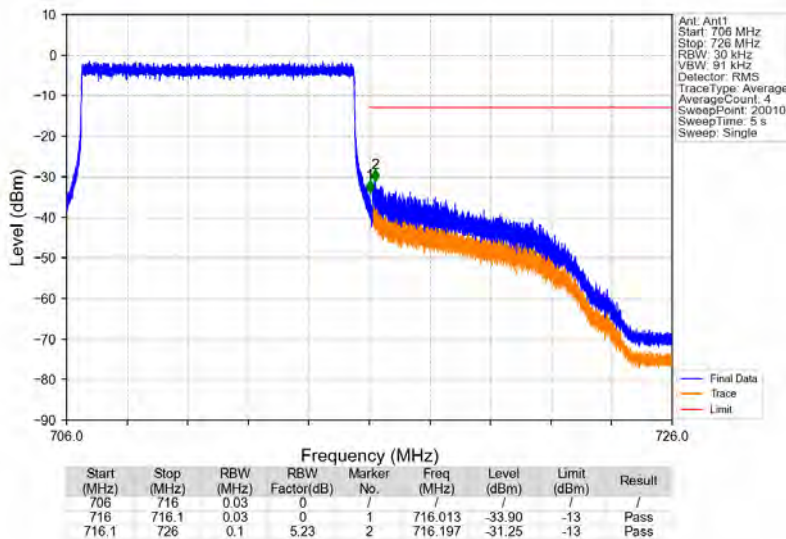
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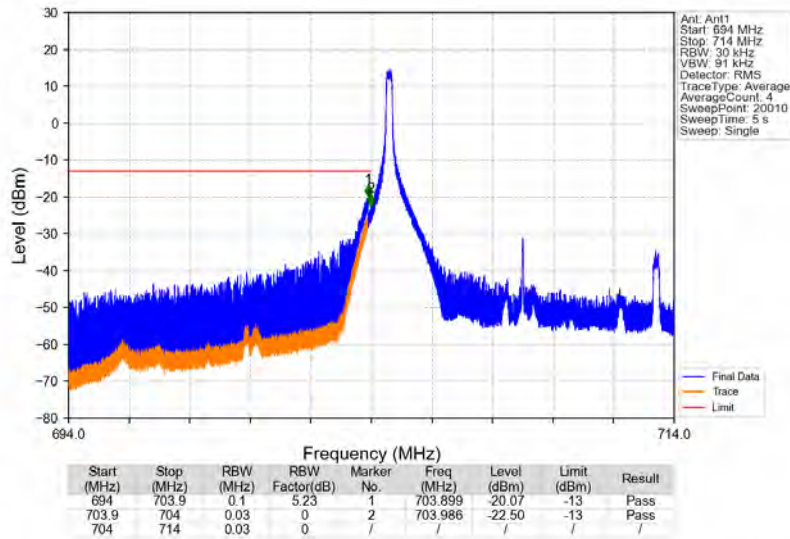
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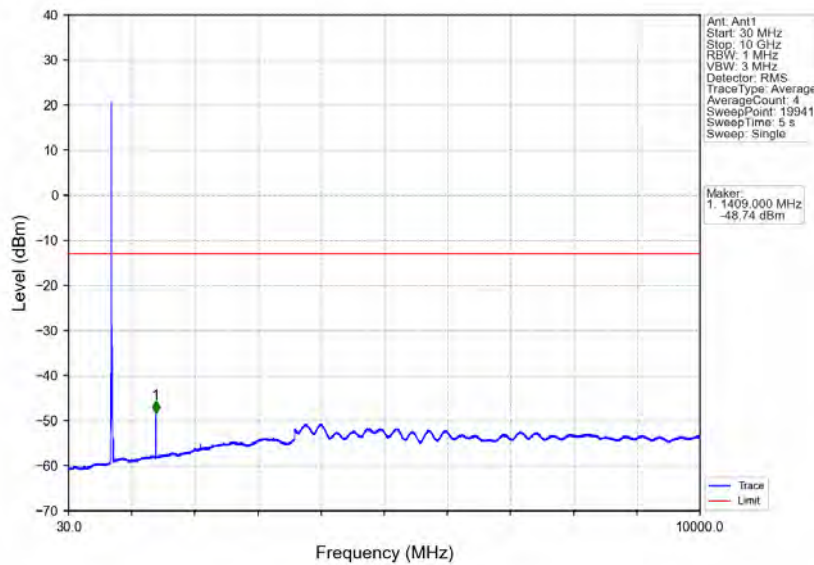
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Band17_10MHz_64QAM_LCH_709MHz_RB_1_0_NTNV



Band17_10MHz_64QAM_LCH_709MHz_RB_1_0_NTNV



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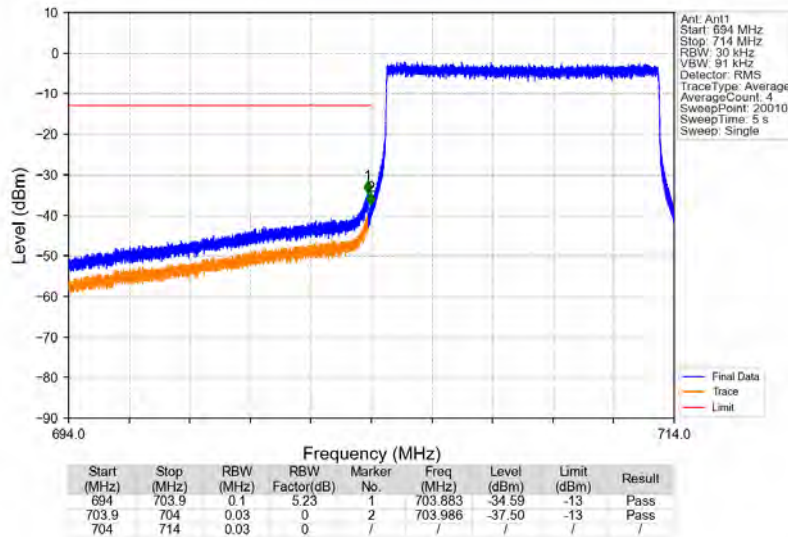
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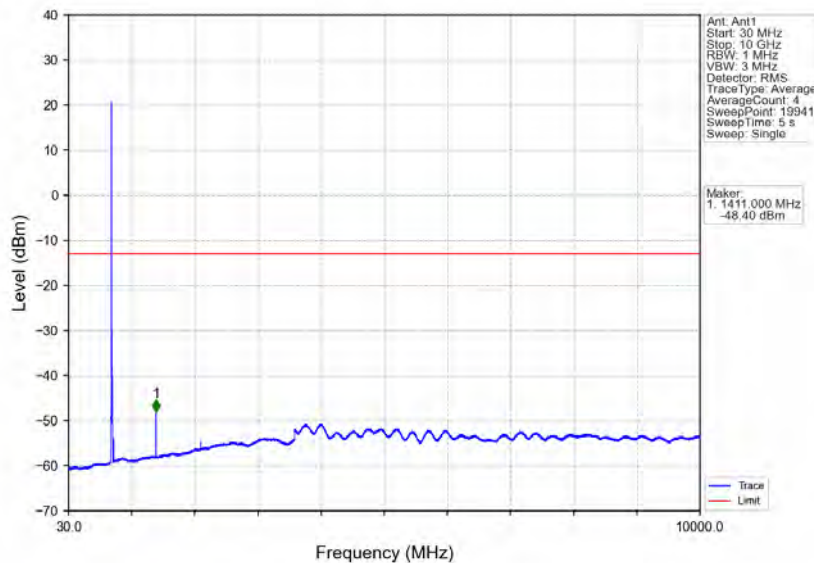
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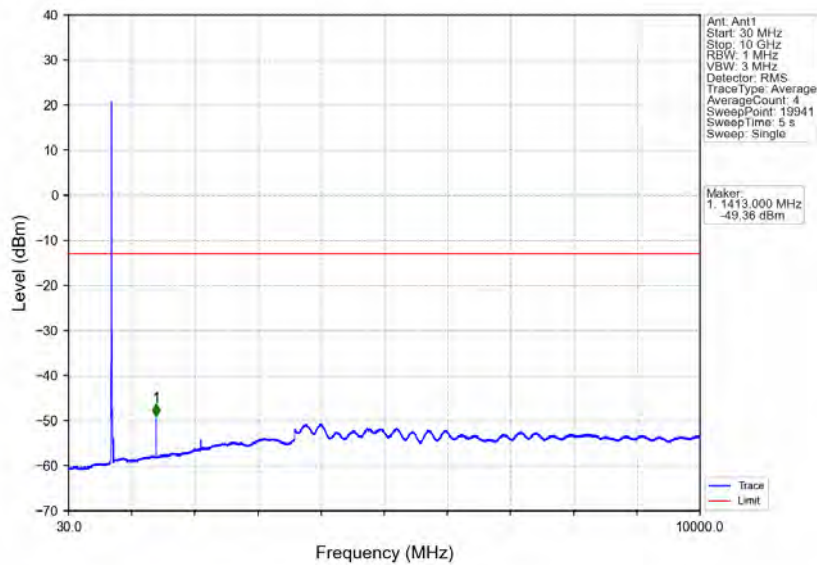
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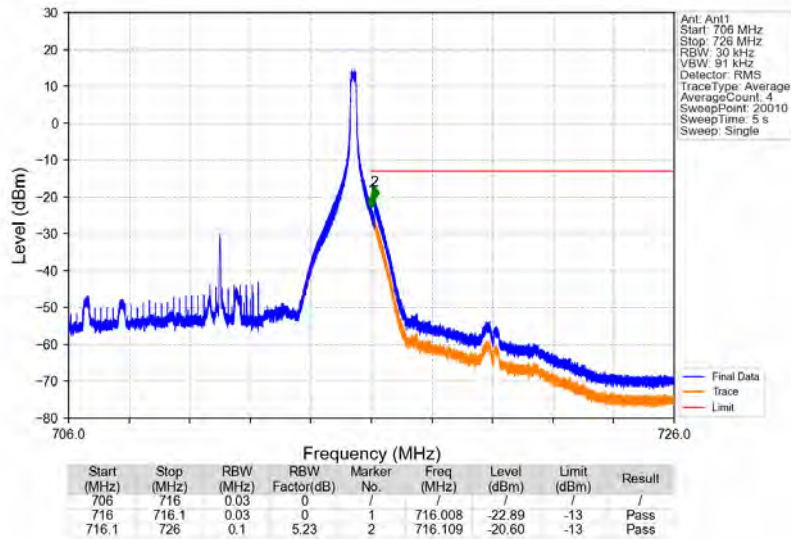
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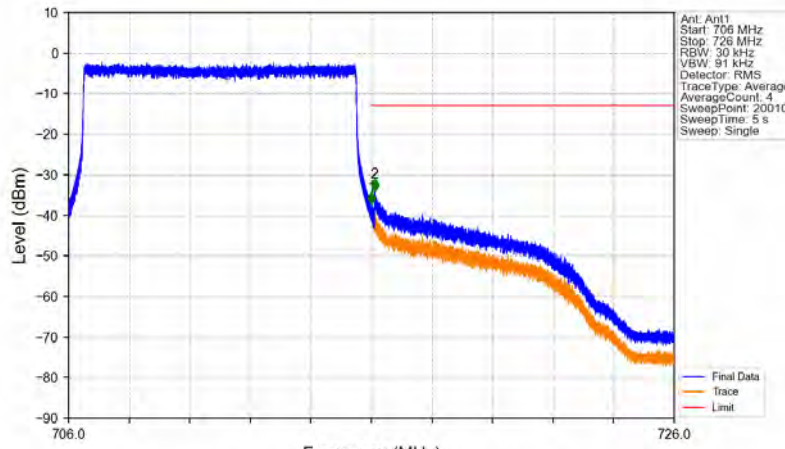
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Band17_10MHz_64QAM_HCH_711MHz_RB_50_0_NTNV



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	716.004	-37.29	-13	Pass
716.1	726	0.1	5.23	2	716.106	-34.05	-13	Pass



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7. Form731

7.1 Form731

7.1.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
17	5	706.5	713.5	0.2432	0.0212	ppm	4M57G7D	27H	23.86
17	5	706.5	713.5	0.2000	0.0154	ppm	4M60W7D	27H	23.01
17	5	706.5	713.5	0.2000	0.0154	ppm	4M60W7D	27H	23.01
17	10	709	711	0.2529	0.0118	ppm	9M10G7D	27H	24.03
17	10	709	711	0.2148	0.0172	ppm	9M10W7D	27H	23.32
17	10	709	711	0.2148	0.0172	ppm	9M10W7D	27H	23.32

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