

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	21.68	0.3	19.83	<=34.77	Pass		
			13	21.88	0.3	20.03	<=34.77	Pass		
			24	21.79	0.3	19.94	<=34.77	Pass		
		12	0	20.70	0.3	18.85	<=34.77	Pass		
			6	20.83	0.3	18.98	<=34.77	Pass		
			13	20.87	0.3	19.02	<=34.77	Pass		
		25	0	20.86	0.3	19.01	<=34.77	Pass		
		710	1	0	21.75	0.3	19.9	<=34.77	Pass	
				13	21.88	0.3	20.03	<=34.77	Pass	
	24			21.77	0.3	19.92	<=34.77	Pass		
	12		0	20.72	0.3	18.87	<=34.77	Pass		
			6	20.85	0.3	19	<=34.77	Pass		
			13	20.83	0.3	18.98	<=34.77	Pass		
	25	0	20.81	0.3	18.96	<=34.77	Pass			
	713.5	1	0	21.75	0.3	19.9	<=34.77	Pass		
			13	21.90	0.3	20.05	<=34.77	Pass		
			24	21.80	0.3	19.95	<=34.77	Pass		
		12	0	20.86	0.3	19.01	<=34.77	Pass		
			6	20.87	0.3	19.02	<=34.77	Pass		
			13	20.75	0.3	18.9	<=34.77	Pass		
		25	0	20.82	0.3	18.97	<=34.77	Pass		
		16QAM	706.5	1	0	20.91	0.3	19.06	<=34.77	Pass
					13	21.12	0.3	19.27	<=34.77	Pass
	24				21.05	0.3	19.2	<=34.77	Pass	
12	0			19.80	0.3	17.95	<=34.77	Pass		
	6			19.87	0.3	18.02	<=34.77	Pass		
	13			19.90	0.3	18.05	<=34.77	Pass		
25	0			19.81	0.3	17.96	<=34.77	Pass		
710	1			0	20.60	0.3	18.75	<=34.77	Pass	
				13	20.74	0.3	18.89	<=34.77	Pass	
			24	20.63	0.3	18.78	<=34.77	Pass		
	12		0	19.78	0.3	17.93	<=34.77	Pass		
			6	19.88	0.3	18.03	<=34.77	Pass		
			13	19.87	0.3	18.02	<=34.77	Pass		
25	0		19.84	0.3	17.99	<=34.77	Pass			
713.5	1		0	20.82	0.3	18.97	<=34.77	Pass		
			13	20.94	0.3	19.09	<=34.77	Pass		
			24	20.84	0.3	18.99	<=34.77	Pass		
	12		0	19.81	0.3	17.96	<=34.77	Pass		
			6	19.90	0.3	18.05	<=34.77	Pass		
			13	19.76	0.3	17.91	<=34.77	Pass		
	25		0	19.86	0.3	18.01	<=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 / NTV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	709	1	0	21.75	0.3	19.9	<=34.77	Pass		
			25	22.03	0.3	20.18	<=34.77	Pass		
			49	21.91	0.3	20.06	<=34.77	Pass		
		25	0	20.80	0.3	18.95	<=34.77	Pass		
			13	20.94	0.3	19.09	<=34.77	Pass		
			25	21.02	0.3	19.17	<=34.77	Pass		
		50	0	20.90	0.3	19.05	<=34.77	Pass		
		710	1	0	21.71	0.3	19.86	<=34.77	Pass	
				25	21.97	0.3	20.12	<=34.77	Pass	
	49			21.87	0.3	20.02	<=34.77	Pass		
	25		0	20.73	0.3	18.88	<=34.77	Pass		
			13	20.89	0.3	19.04	<=34.77	Pass		
			25	20.89	0.3	19.04	<=34.77	Pass		
	50		0	20.85	0.3	19	<=34.77	Pass		
	711		1	0	21.79	0.3	19.94	<=34.77	Pass	
				25	21.96	0.3	20.11	<=34.77	Pass	
		49		21.94	0.3	20.09	<=34.77	Pass		
		25	0	20.78	0.3	18.93	<=34.77	Pass		
			13	20.91	0.3	19.06	<=34.77	Pass		
			25	20.85	0.3	19	<=34.77	Pass		
		50	0	20.81	0.3	18.96	<=34.77	Pass		
		16QAM	709	1	0	20.84	0.3	18.99	<=34.77	Pass
					25	21.16	0.3	19.31	<=34.77	Pass
	49				21.06	0.3	19.21	<=34.77	Pass	
25	0			19.81	0.3	17.96	<=34.77	Pass		
	13			19.95	0.3	18.1	<=34.77	Pass		
	25			20.01	0.3	18.16	<=34.77	Pass		
50	0			19.93	0.3	18.08	<=34.77	Pass		
710	1			0	21.21	0.3	19.36	<=34.77	Pass	
				25	21.57	0.3	19.72	<=34.77	Pass	
			49	21.37	0.3	19.52	<=34.77	Pass		
	25		0	19.79	0.3	17.94	<=34.77	Pass		
			13	19.94	0.3	18.09	<=34.77	Pass		
			25	19.94	0.3	18.09	<=34.77	Pass		
	50		0	19.85	0.3	18	<=34.77	Pass		
	711		1	0	20.75	0.3	18.9	<=34.77	Pass	
				25	20.99	0.3	19.14	<=34.77	Pass	
49				20.87	0.3	19.02	<=34.77	Pass		
25			0	19.82	0.3	17.97	<=34.77	Pass		
			13	19.99	0.3	18.14	<=34.77	Pass		
			25	19.93	0.3	18.08	<=34.77	Pass		
50			0	19.85	0.3	18	<=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									
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	3.27	-12.131	-0.0172	-2.5 to 2.5	Pass
					3.85	5.908	0.0084	-2.5 to 2.5	Pass
					4.43	7.052	0.0100	-2.5 to 2.5	Pass
				-30	3.85	0.629	0.0009	-2.5 to 2.5	Pass
				-20	3.85	6.495	0.0092	-2.5 to 2.5	Pass
				-10	3.85	-3.004	-0.0043	-2.5 to 2.5	Pass
				0	3.85	1.259	0.0018	-2.5 to 2.5	Pass
				10	3.85	2.017	0.0029	-2.5 to 2.5	Pass
				30	3.85	-1.416	-0.0020	-2.5 to 2.5	Pass
				40	3.85	-1.059	-0.0015	-2.5 to 2.5	Pass
	50	3.85	2.618	0.0037	-2.5 to 2.5	Pass			
	710	25	0	20	3.27	-2.503	-0.0035	-2.5 to 2.5	Pass
					3.85	-0.315	-0.0004	-2.5 to 2.5	Pass
					4.43	1.588	0.0022	-2.5 to 2.5	Pass
				-30	3.85	-0.358	-0.0005	-2.5 to 2.5	Pass
				-20	3.85	3.090	0.0044	-2.5 to 2.5	Pass
				-10	3.85	2.375	0.0033	-2.5 to 2.5	Pass
				0	3.85	2.360	0.0033	-2.5 to 2.5	Pass
				10	3.85	-0.644	-0.0009	-2.5 to 2.5	Pass
				30	3.85	0.930	0.0013	-2.5 to 2.5	Pass
				40	3.85	-1.903	-0.0027	-2.5 to 2.5	Pass
	50	3.85	-2.146	-0.0030	-2.5 to 2.5	Pass			
	713.5	25	0	20	3.27	-12.288	-0.0172	-2.5 to 2.5	Pass
					3.85	3.648	0.0051	-2.5 to 2.5	Pass
					4.43	2.346	0.0033	-2.5 to 2.5	Pass
				-30	3.85	4.807	0.0067	-2.5 to 2.5	Pass
				-20	3.85	1.788	0.0025	-2.5 to 2.5	Pass
				-10	3.85	-2.275	-0.0032	-2.5 to 2.5	Pass
				0	3.85	0.601	0.0008	-2.5 to 2.5	Pass
				10	3.85	-2.289	-0.0032	-2.5 to 2.5	Pass
30				3.85	2.003	0.0028	-2.5 to 2.5	Pass	
40				3.85	-0.687	-0.0010	-2.5 to 2.5	Pass	
50	3.85	-0.486	-0.0007	-2.5 to 2.5	Pass				
16QAM	706.5	25	0	20	3.27	0.186	0.0003	-2.5 to 2.5	Pass
					3.85	-0.629	-0.0009	-2.5 to 2.5	Pass
					4.43	-3.734	-0.0053	-2.5 to 2.5	Pass
				-30	3.85	0.486	0.0007	-2.5 to 2.5	Pass
				-20	3.85	1.760	0.0025	-2.5 to 2.5	Pass
				-10	3.85	-2.947	-0.0042	-2.5 to 2.5	Pass
				0	3.85	-0.658	-0.0009	-2.5 to 2.5	Pass
				10	3.85	-1.516	-0.0021	-2.5 to 2.5	Pass
				30	3.85	0.286	0.0004	-2.5 to 2.5	Pass
				40	3.85	2.217	0.0031	-2.5 to 2.5	Pass
	50	3.85	0.072	0.0001	-2.5 to 2.5	Pass			
	710	25	0	20	3.27	0.844	0.0012	-2.5 to 2.5	Pass
					3.85	2.403	0.0034	-2.5 to 2.5	Pass

					4.43	-4.206	-0.0059	-2.5 to 2.5	Pass			
				-30	3.85	-1.903	-0.0027	-2.5 to 2.5	Pass			
				-20	3.85	-2.546	-0.0036	-2.5 to 2.5	Pass			
				-10	3.85	-1.888	-0.0027	-2.5 to 2.5	Pass			
				0	3.85	1.087	0.0015	-2.5 to 2.5	Pass			
				10	3.85	-1.388	-0.0020	-2.5 to 2.5	Pass			
				30	3.85	0.901	0.0013	-2.5 to 2.5	Pass			
				40	3.85	-4.377	-0.0062	-2.5 to 2.5	Pass			
				50	3.85	-1.359	-0.0019	-2.5 to 2.5	Pass			
	713.5	25	0	20	3.27	-2.074	-0.0029	-2.5 to 2.5	Pass			
3.85					-4.320	-0.0061	-2.5 to 2.5	Pass				
4.43					-3.090	-0.0043	-2.5 to 2.5	Pass				
							-30	3.85	-3.304	-0.0046	-2.5 to 2.5	Pass
							-20	3.85	-0.687	-0.0010	-2.5 to 2.5	Pass
							-10	3.85	0.072	0.0001	-2.5 to 2.5	Pass
							0	3.85	-1.974	-0.0028	-2.5 to 2.5	Pass
							10	3.85	-1.245	-0.0017	-2.5 to 2.5	Pass
							30	3.85	-1.144	-0.0016	-2.5 to 2.5	Pass
							40	3.85	-0.343	-0.0005	-2.5 to 2.5	Pass
							50	3.85	-0.715	-0.0010	-2.5 to 2.5	Pass

2.2 B17_10MHz

2.2.1 Test Result

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	3.27	-1.359	-0.0019	-2.5 to 2.5	Pass				
					3.85	3.219	0.0045	-2.5 to 2.5	Pass				
					4.43	0.873	0.0012	-2.5 to 2.5	Pass				
								-30	3.85	2.289	0.0032	-2.5 to 2.5	Pass
								-20	3.85	1.559	0.0022	-2.5 to 2.5	Pass
								-10	3.85	-0.057	-0.0001	-2.5 to 2.5	Pass
								0	3.85	2.217	0.0031	-2.5 to 2.5	Pass
								10	3.85	0.014	0.0000	-2.5 to 2.5	Pass
								30	3.85	1.273	0.0018	-2.5 to 2.5	Pass
								40	3.85	0.429	0.0006	-2.5 to 2.5	Pass
								50	3.85	-1.030	-0.0015	-2.5 to 2.5	Pass
					710	50	0	20	3.27	-1.388	-0.0020	-2.5 to 2.5	Pass
				3.85					0.358	0.0005	-2.5 to 2.5	Pass	
				4.43					2.475	0.0035	-2.5 to 2.5	Pass	
											-30	3.85	2.904
								-20	3.85	2.046	0.0029	-2.5 to 2.5	Pass
								-10	3.85	1.903	0.0027	-2.5 to 2.5	Pass
								0	3.85	2.060	0.0029	-2.5 to 2.5	Pass
								10	3.85	-0.672	-0.0009	-2.5 to 2.5	Pass
								30	3.85	0.443	0.0006	-2.5 to 2.5	Pass
								40	3.85	0.029	0.0000	-2.5 to 2.5	Pass
								50	3.85	0.501	0.0007	-2.5 to 2.5	Pass
		711	50	0				20	3.27	-2.918	-0.0041	-2.5 to 2.5	Pass
	3.85								1.187	0.0017	-2.5 to 2.5	Pass	
	4.43								-0.229	-0.0003	-2.5 to 2.5	Pass	
											-30	3.85	0.572
								-20	3.85	3.476	0.0049	-2.5 to 2.5	Pass

				-10	3.85	0.887	0.0012	-2.5 to 2.5	Pass				
				0	3.85	1.173	0.0016	-2.5 to 2.5	Pass				
				10	3.85	0.472	0.0007	-2.5 to 2.5	Pass				
				30	3.85	0.401	0.0006	-2.5 to 2.5	Pass				
				40	3.85	0.558	0.0008	-2.5 to 2.5	Pass				
				50	3.85	0.815	0.0011	-2.5 to 2.5	Pass				
16QAM	709	50	0	20	3.27	-1.459	-0.0021	-2.5 to 2.5	Pass				
					3.85	0.443	0.0006	-2.5 to 2.5	Pass				
					4.43	-0.515	-0.0007	-2.5 to 2.5	Pass				
				-30	3.85	-0.458	-0.0006	-2.5 to 2.5	Pass				
					-20	3.85	-0.515	-0.0007	-2.5 to 2.5	Pass			
						3.85	-0.544	-0.0008	-2.5 to 2.5	Pass			
				710	50	0	20	3.85	-1.116	-0.0016	-2.5 to 2.5	Pass	
								3.85	-0.987	-0.0014	-2.5 to 2.5	Pass	
								3.85	-0.172	-0.0002	-2.5 to 2.5	Pass	
	-30	3.85	-0.443				-0.0006	-2.5 to 2.5	Pass				
		-20	3.85				-0.443	-0.0006	-2.5 to 2.5	Pass			
			3.85				0.615	0.0009	-2.5 to 2.5	Pass			
	711	50	0				20	3.27	0.615	0.0009	-2.5 to 2.5	Pass	
								3.85	0.615	0.0009	-2.5 to 2.5	Pass	
								4.43	-2.246	-0.0032	-2.5 to 2.5	Pass	
				-30	3.85	-0.286	-0.0004	-2.5 to 2.5	Pass				
					-20	3.85	-1.273	-0.0018	-2.5 to 2.5	Pass			
						3.85	-0.329	-0.0005	-2.5 to 2.5	Pass			
				711	50	0	20	0	3.85	0.029	0.0000	-2.5 to 2.5	Pass
								10	3.85	0.615	0.0009	-2.5 to 2.5	Pass
								30	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
	-30	40	3.85				0.815	0.0011	-2.5 to 2.5	Pass			
		-20	3.85				0.815	0.0011	-2.5 to 2.5	Pass			
			3.85				1.774	0.0025	-2.5 to 2.5	Pass			
	711	50	0				20	3.27	1.774	0.0025	-2.5 to 2.5	Pass	
								3.85	1.774	0.0025	-2.5 to 2.5	Pass	
								4.43	-2.189	-0.0031	-2.5 to 2.5	Pass	
-30				3.85	-1.130	-0.0016	-2.5 to 2.5	Pass					
				-20	3.85	1.402	0.0020	-2.5 to 2.5	Pass				
					3.85	1.845	0.0026	-2.5 to 2.5	Pass				
711				50	0	20	0	3.85	1.030	0.0014	-2.5 to 2.5	Pass	
							10	3.85	-0.272	-0.0004	-2.5 to 2.5	Pass	
							30	3.85	1.302	0.0018	-2.5 to 2.5	Pass	
	-30	40	3.85			-0.644	-0.0009	-2.5 to 2.5	Pass				
		-20	3.85			-0.644	-0.0009	-2.5 to 2.5	Pass				
			3.85			-0.029	0.0000	-2.5 to 2.5	Pass				

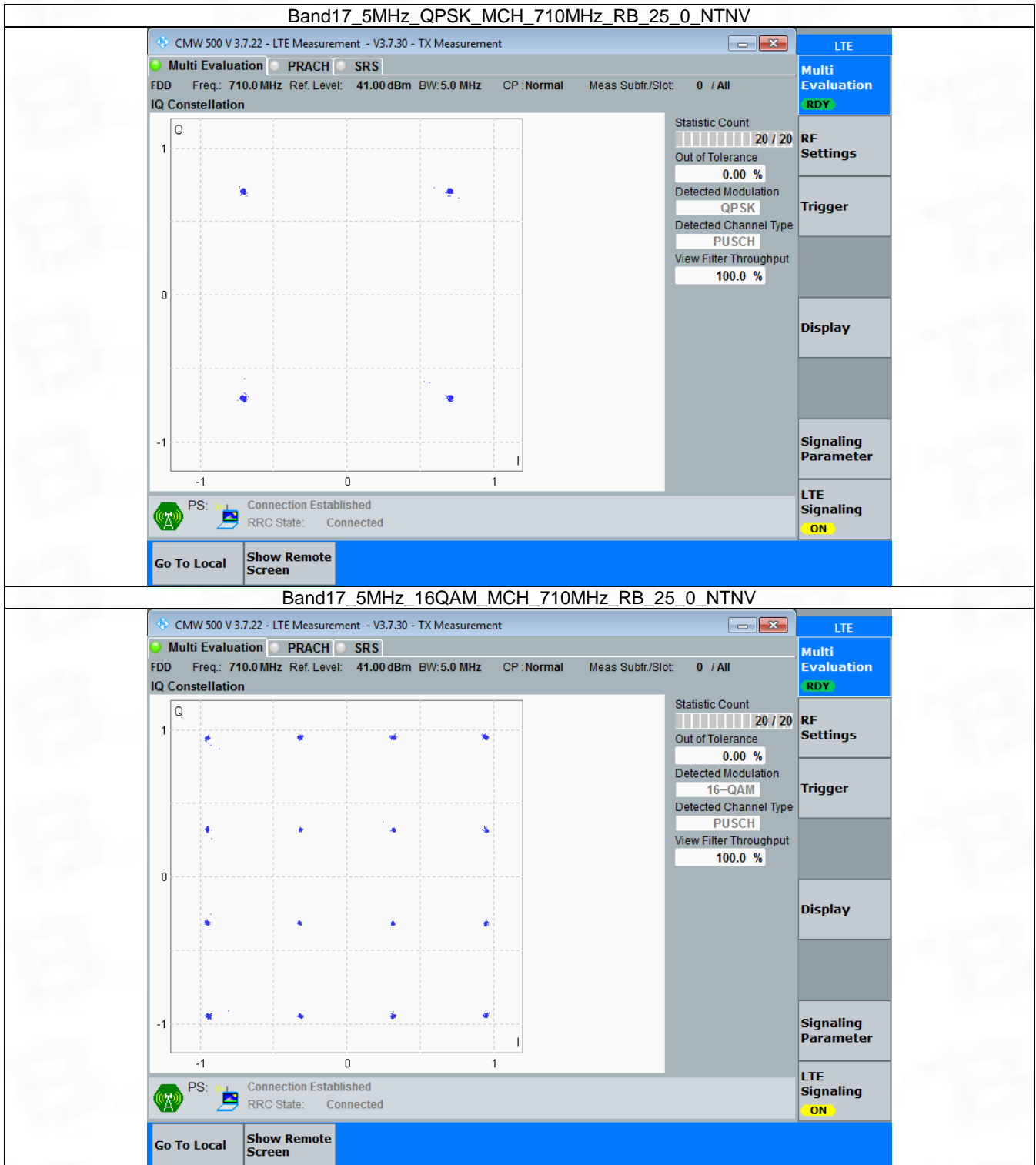
3. Modulation Characteristics

3.1 B17_5MHz

3.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTN						
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

3.1.2 Test Graph

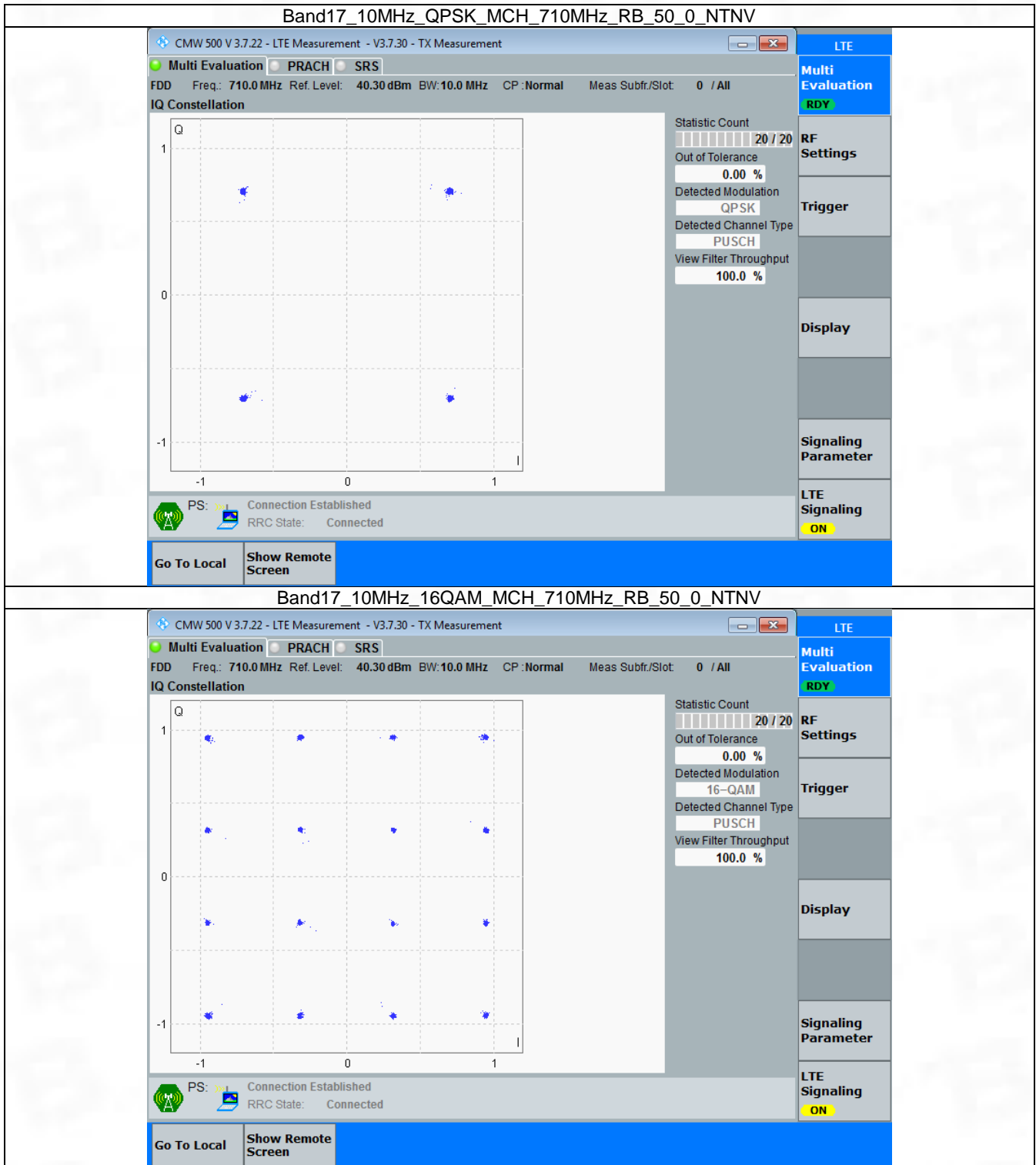


3.2 B17_10MHz

3.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTV						
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

3.2.2 Test Graph



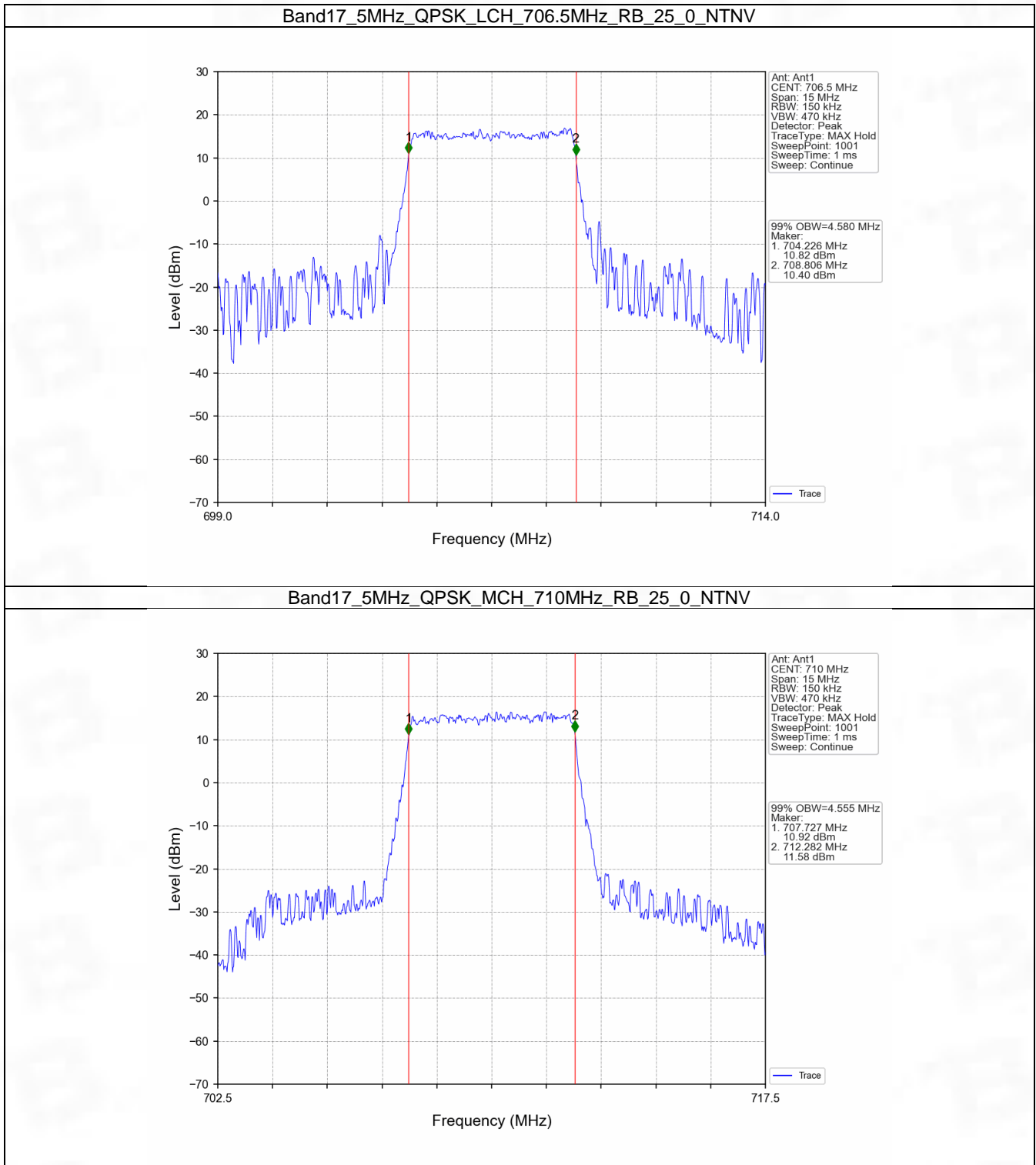
4. 99% & 26dB Bandwidth

4.1 Band17_OBW

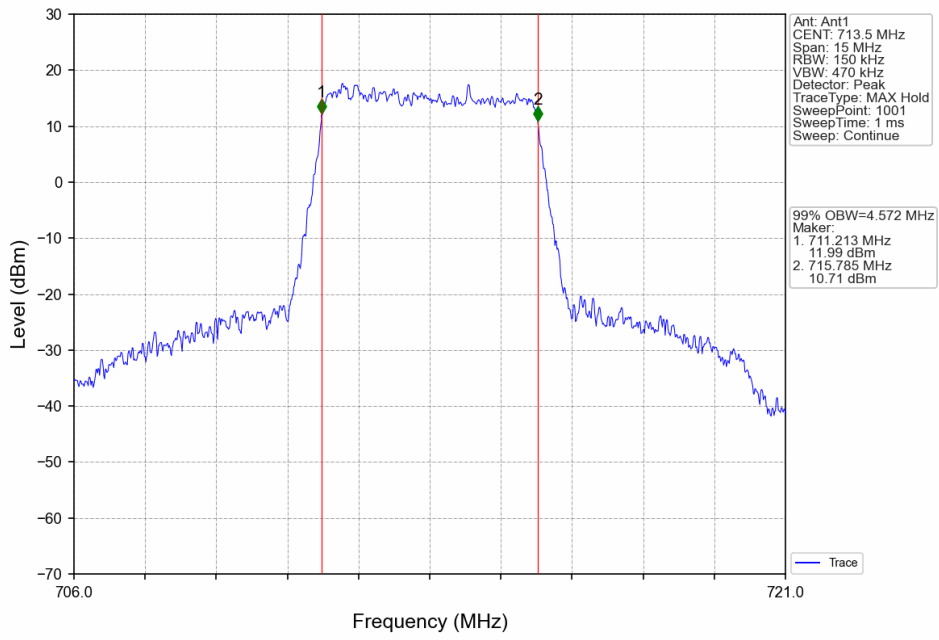
4.1.1 Test Result

Band: 17 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	706.5	25	0	4.580	Pass
		710	25	0	4.555	Pass
		713.5	25	0	4.572	Pass
	16QAM	706.5	25	0	4.574	Pass
		710	25	0	4.570	Pass
		713.5	25	0	4.549	Pass
10	QPSK	709	50	0	9.086	Pass
		710	50	0	9.040	Pass
		711	50	0	9.056	Pass
	16QAM	709	50	0	9.072	Pass
		710	50	0	9.045	Pass
		711	50	0	9.042	Pass

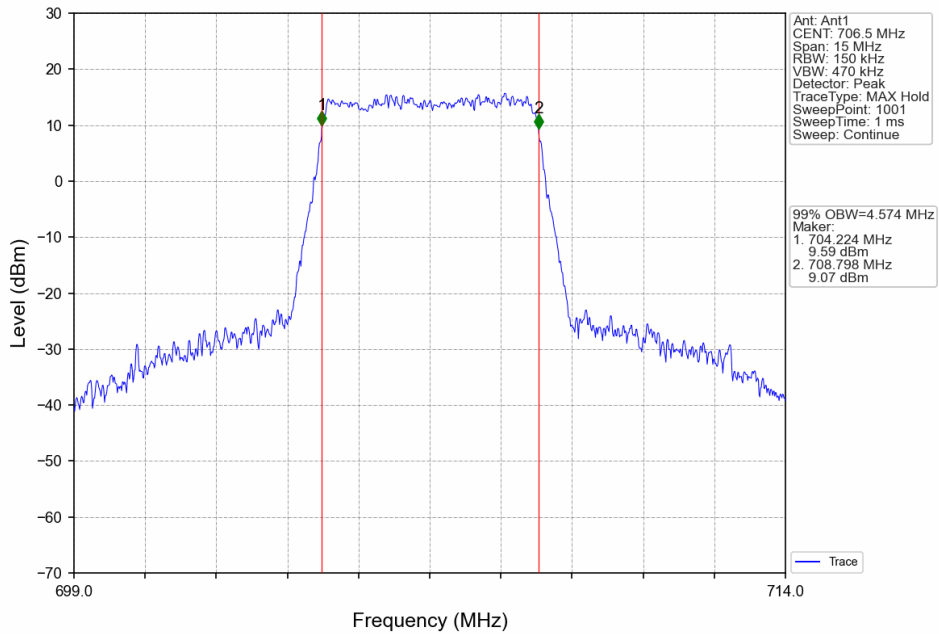
4.1.2 Test Graph



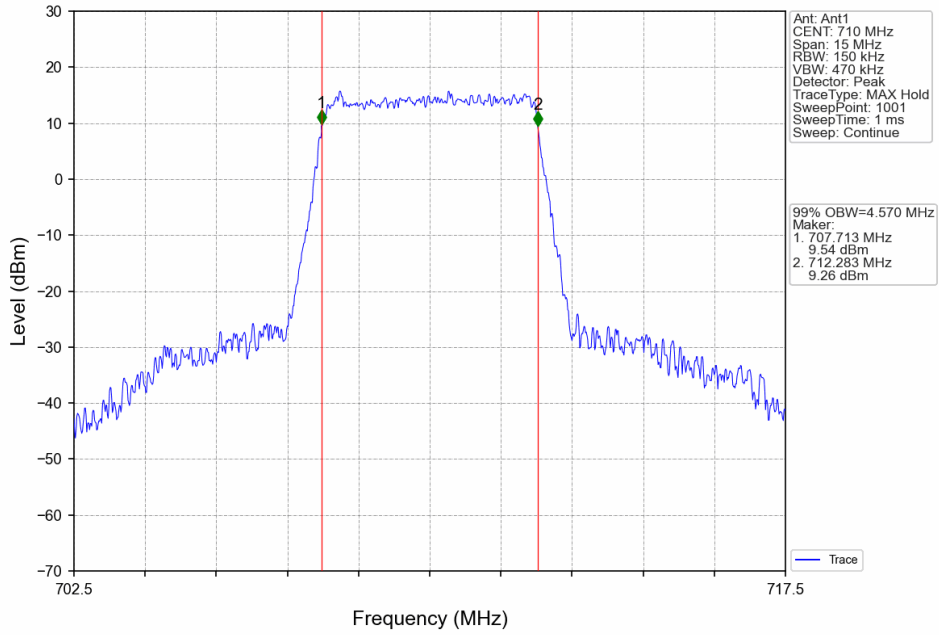
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



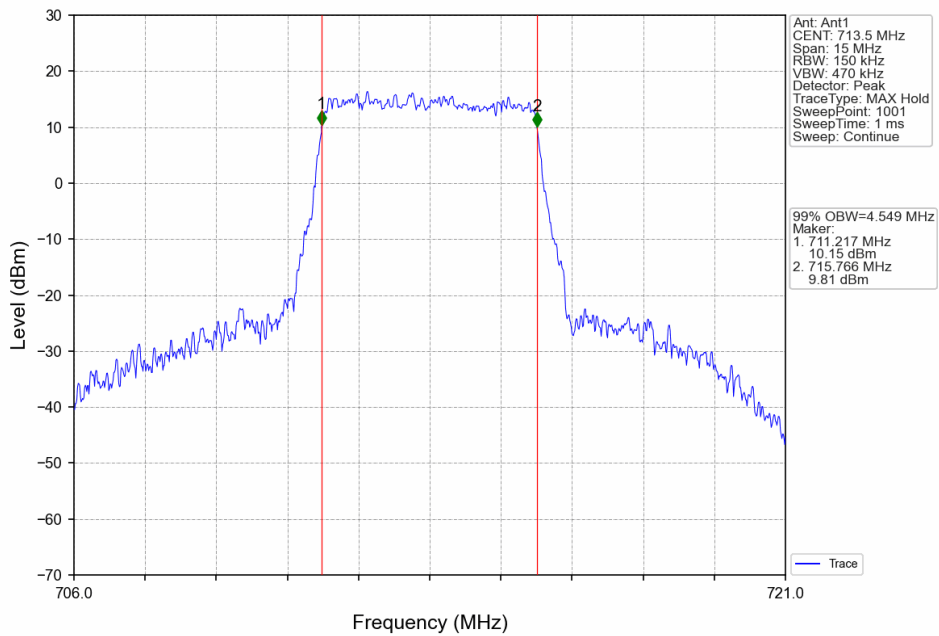
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



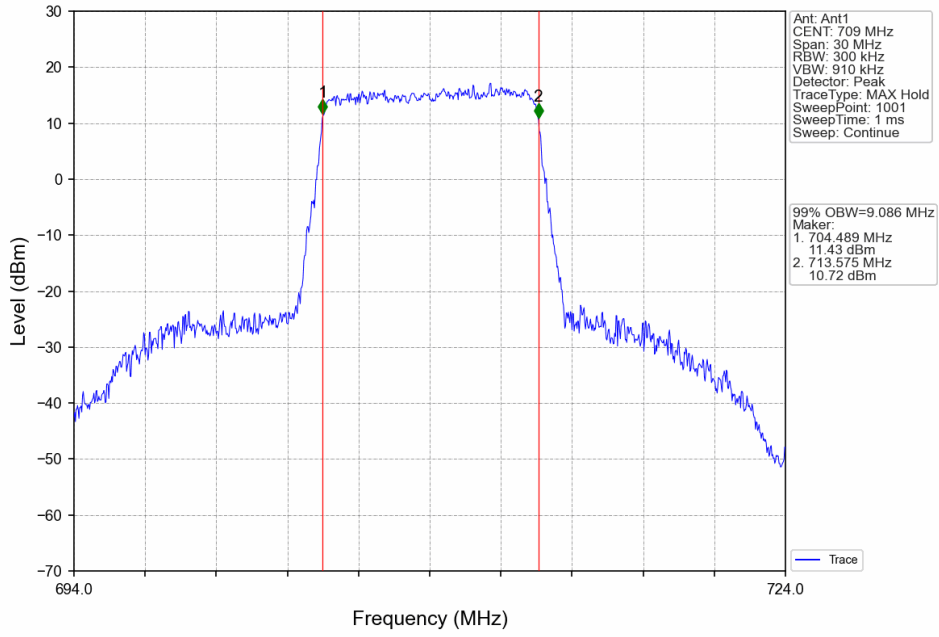
Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



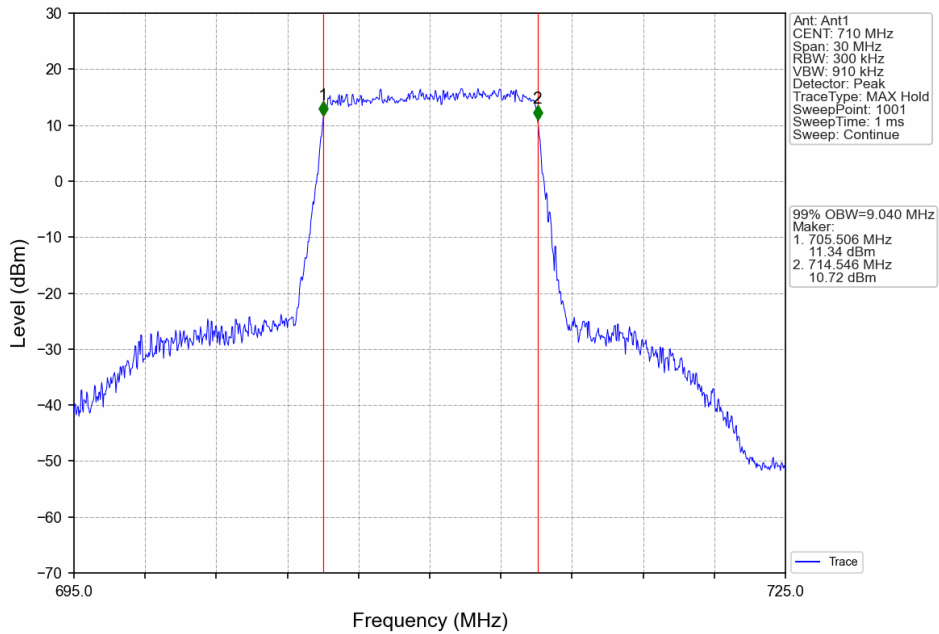
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



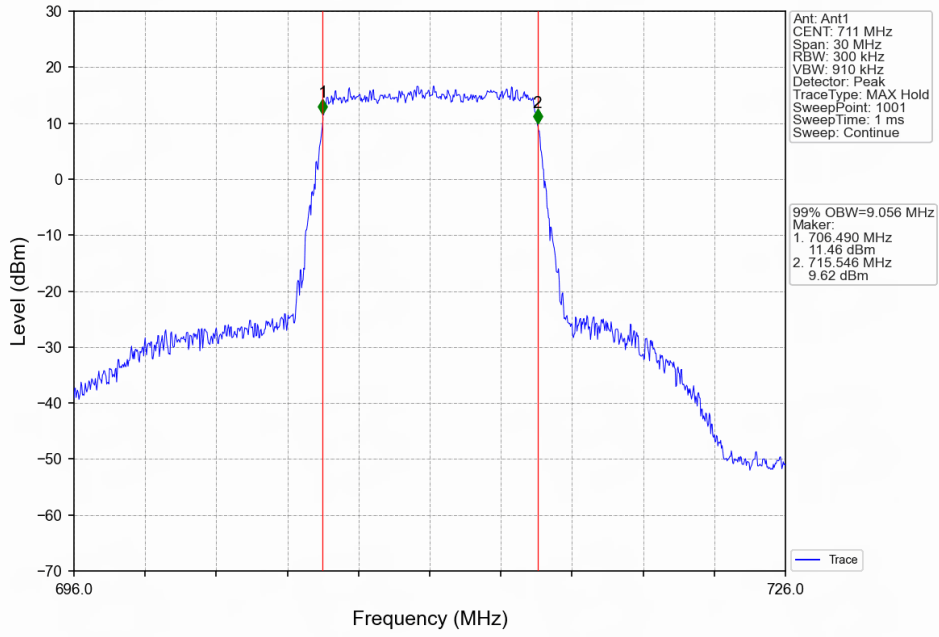
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



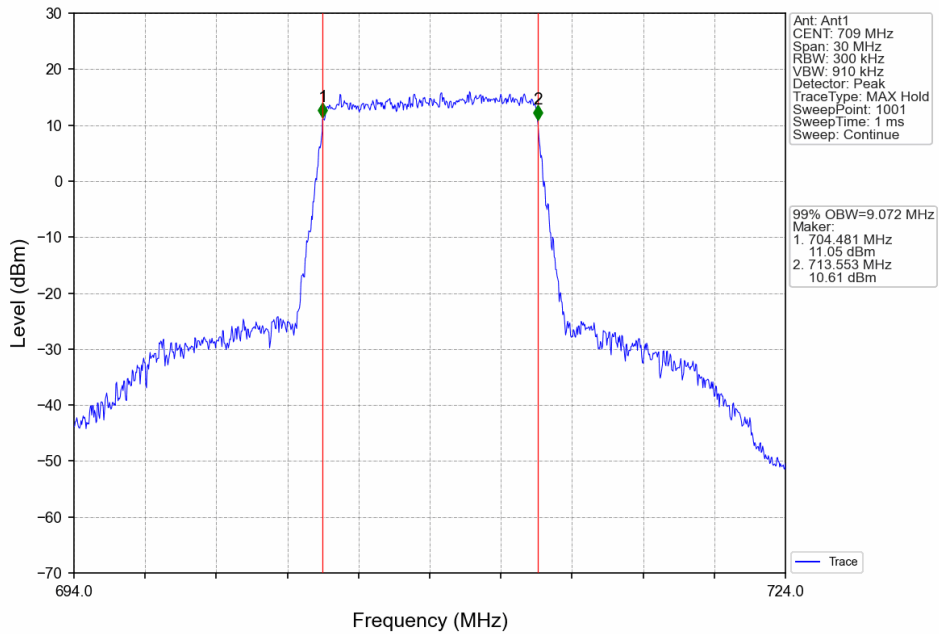
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



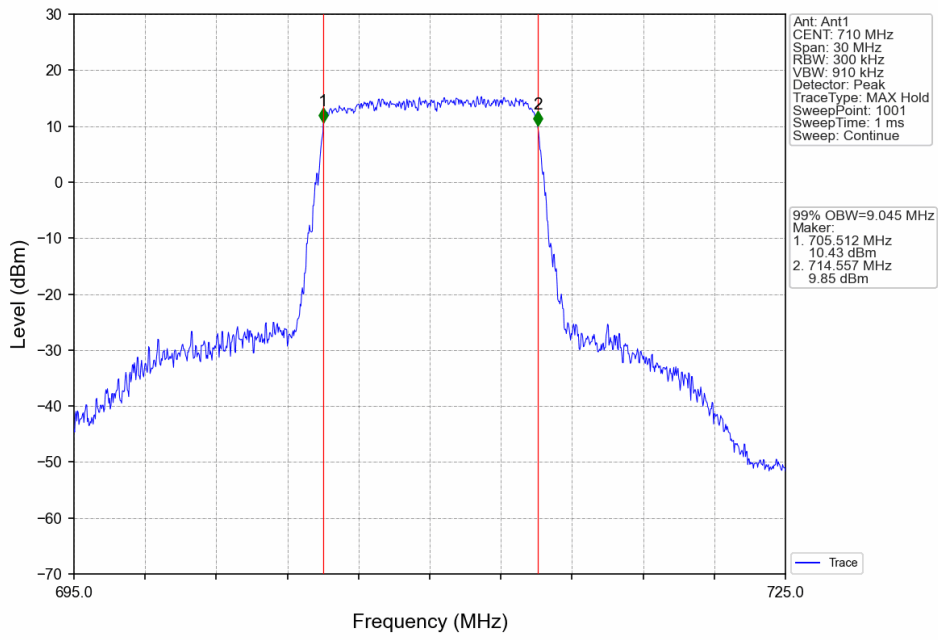
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



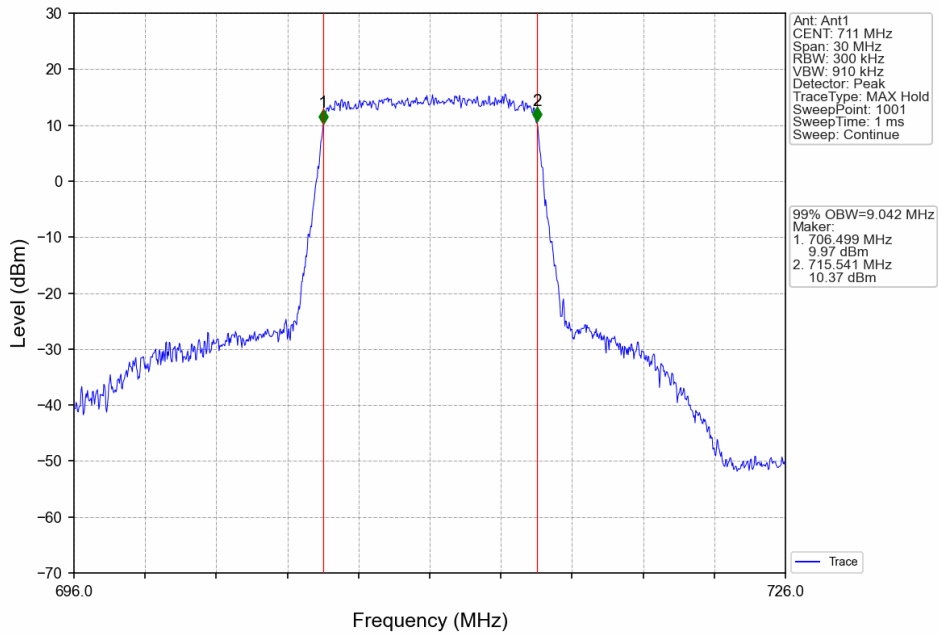
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV

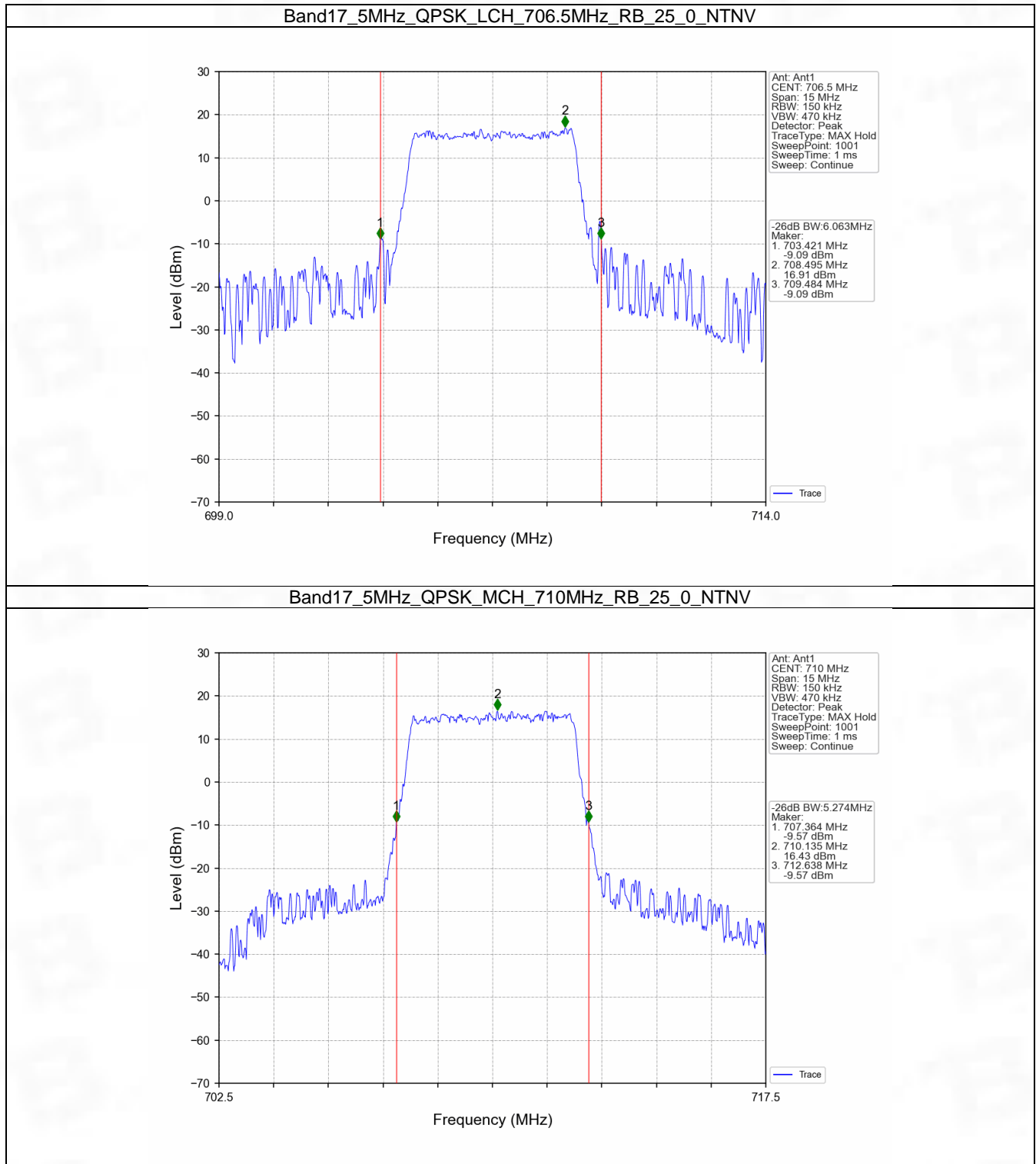


4.2 Band17_XDB

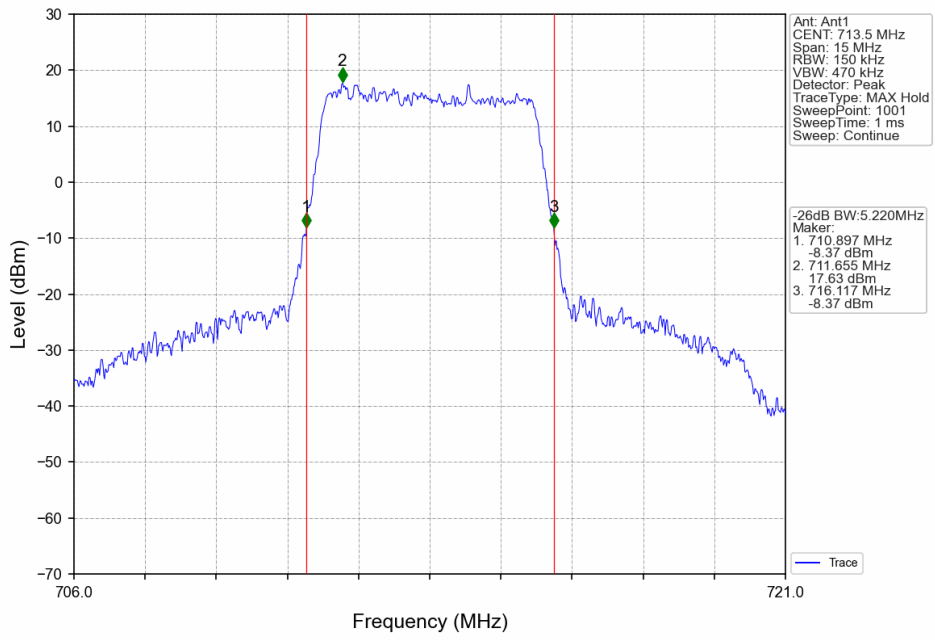
4.2.1 Test Result

Band: 17 / NTNV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
5	QPSK	706.5	25	0	6.063	Pass
		710	25	0	5.274	Pass
		713.5	25	0	5.220	Pass
	16QAM	706.5	25	0	5.329	Pass
		710	25	0	5.242	Pass
		713.5	25	0	5.241	Pass
10	QPSK	709	50	0	10.309	Pass
		710	50	0	10.182	Pass
		711	50	0	10.373	Pass
	16QAM	709	50	0	10.313	Pass
		710	50	0	10.184	Pass
		711	50	0	10.213	Pass

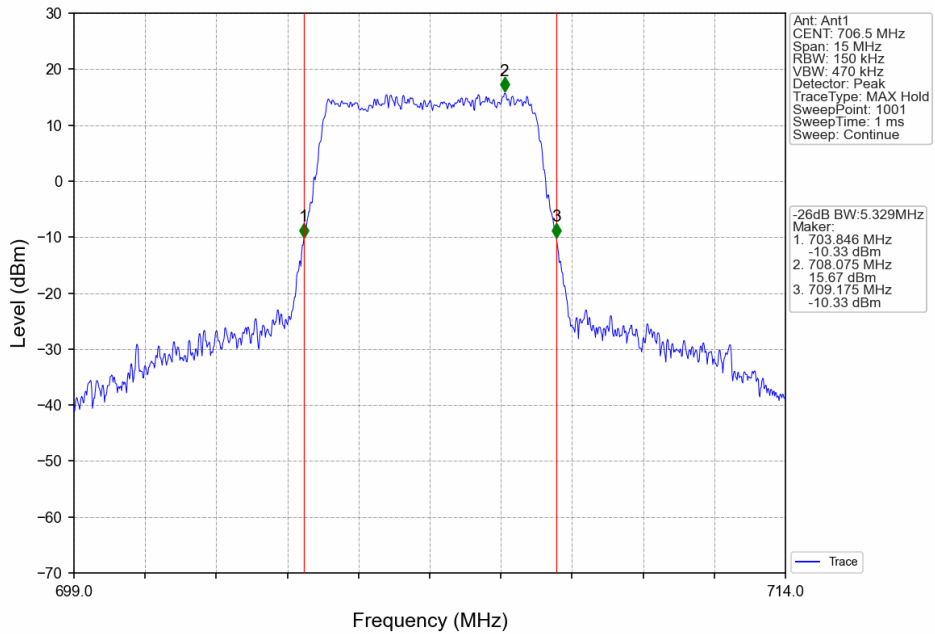
4.2.2 Test Graph



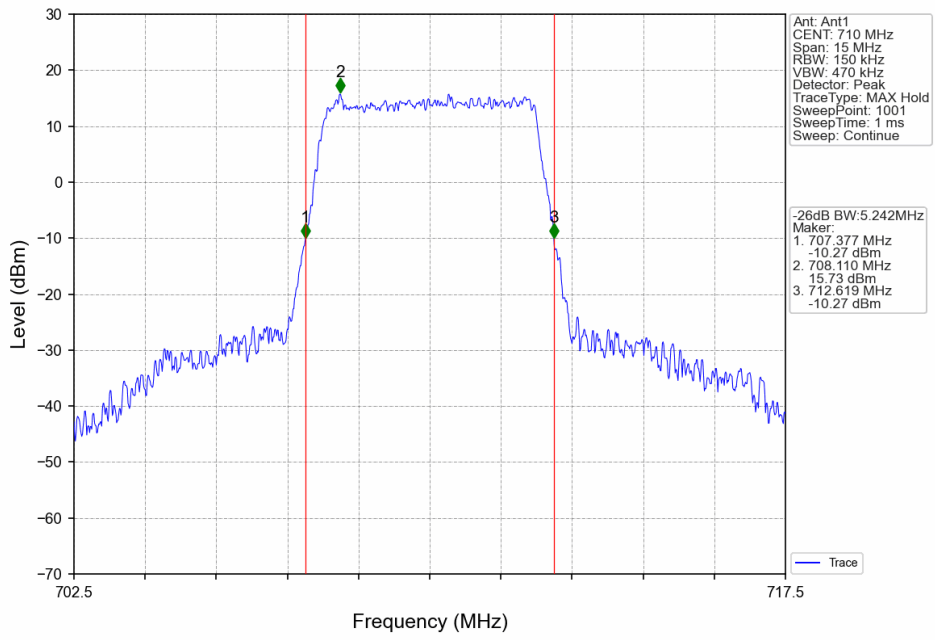
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



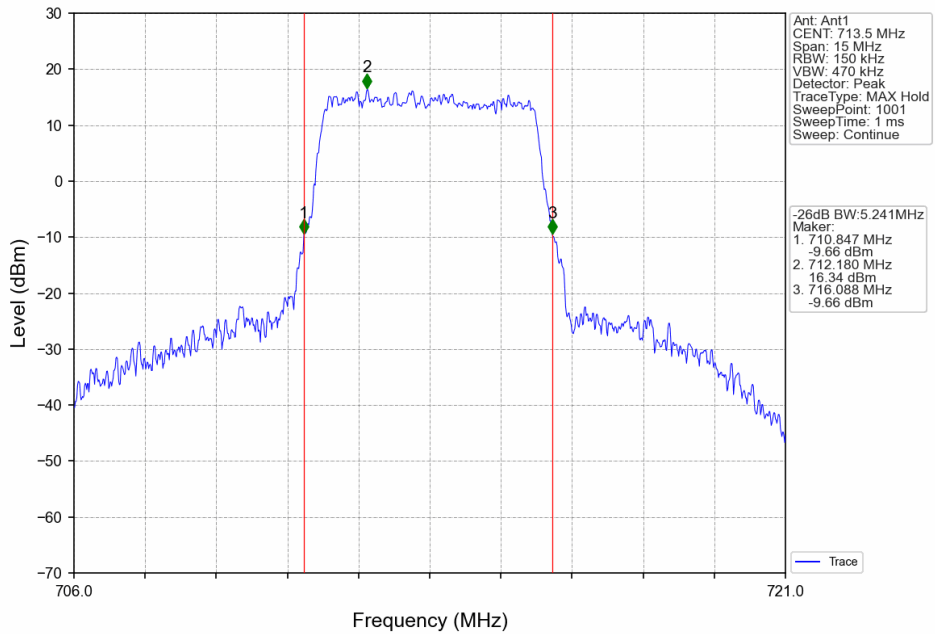
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



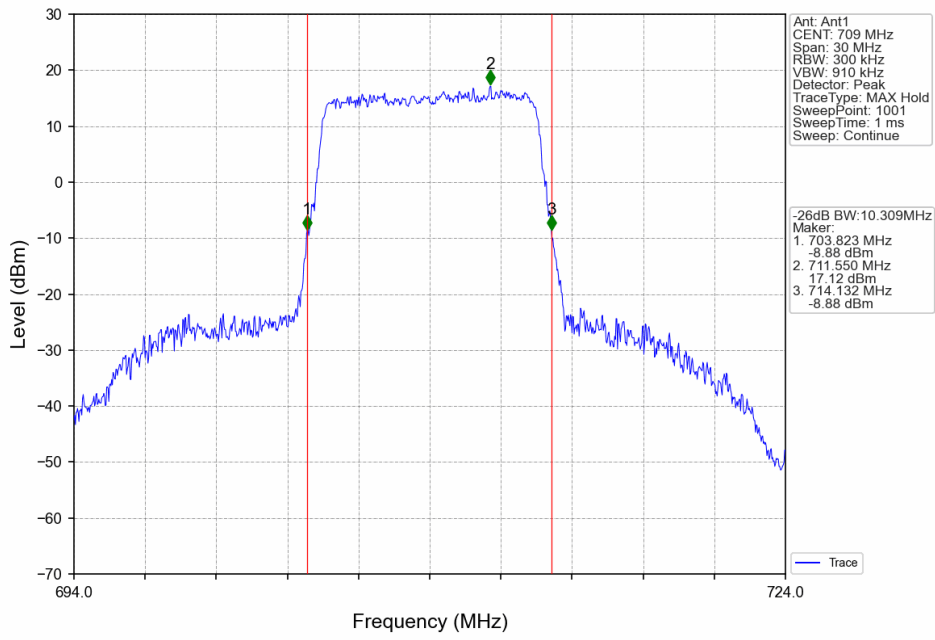
Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



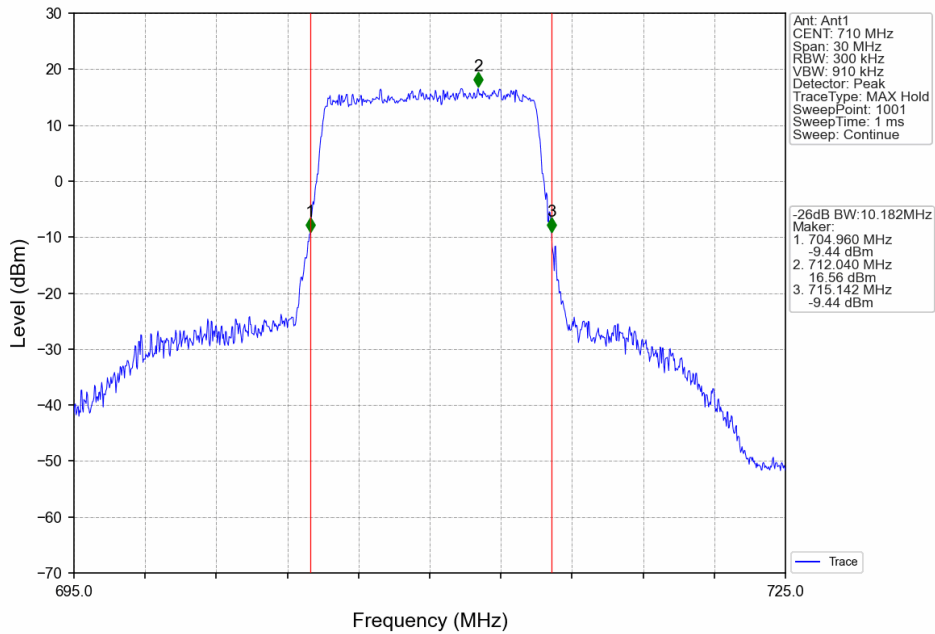
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



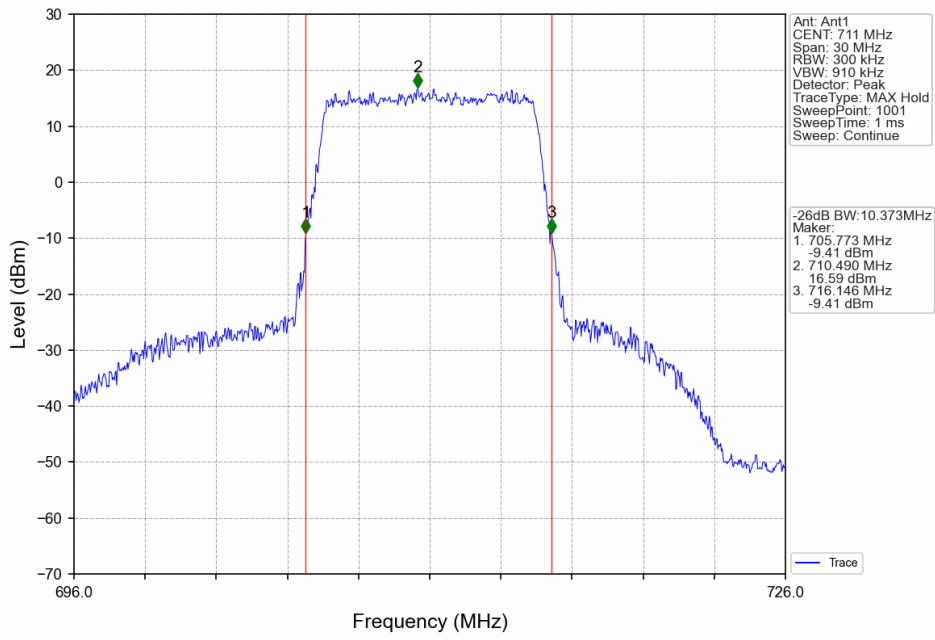
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



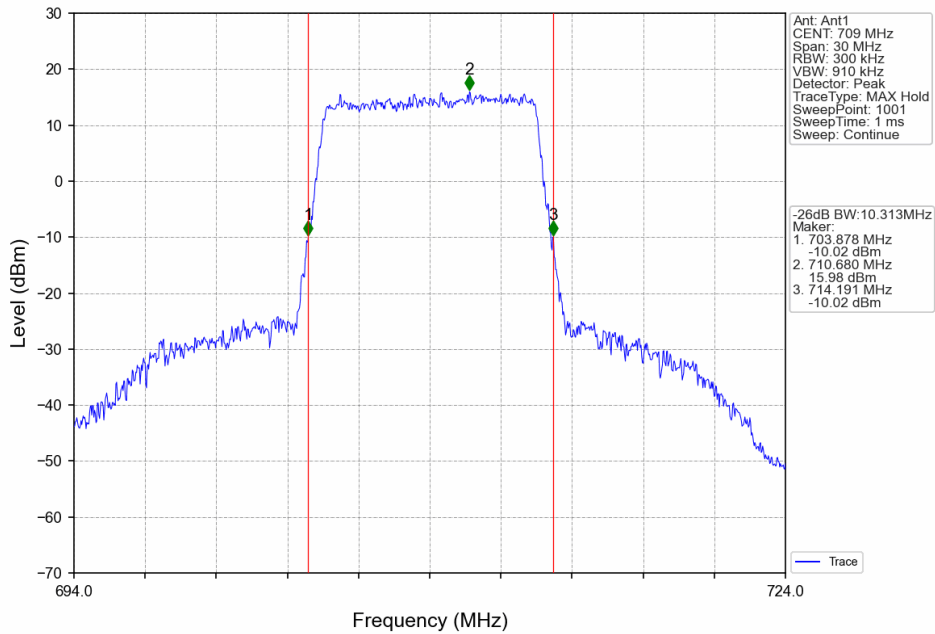
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



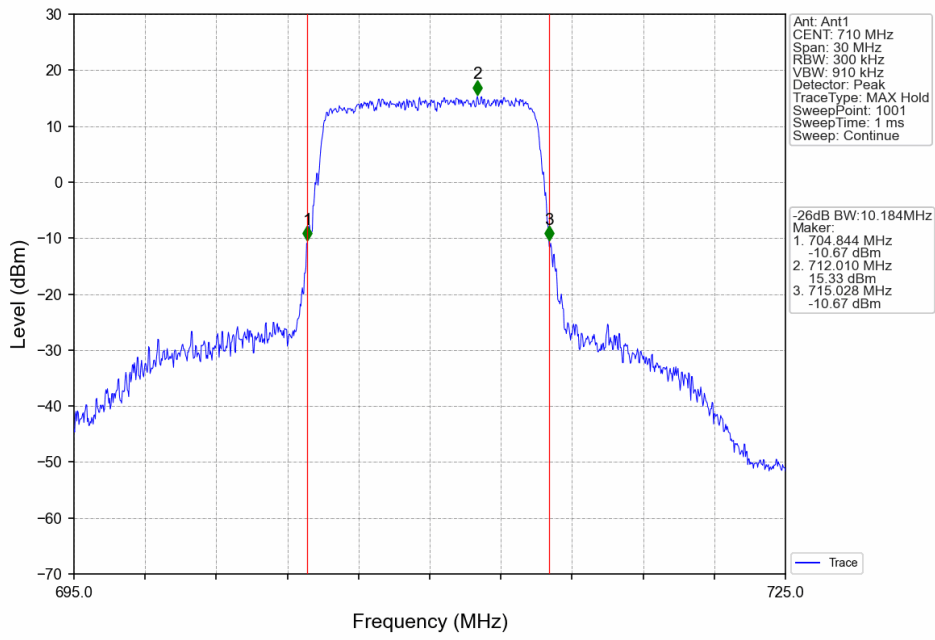
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



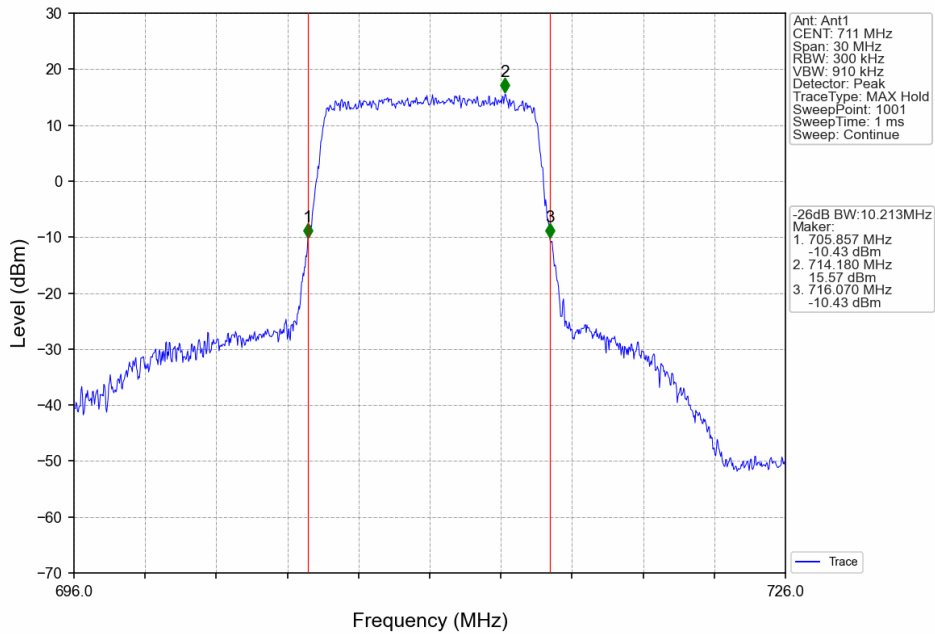
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



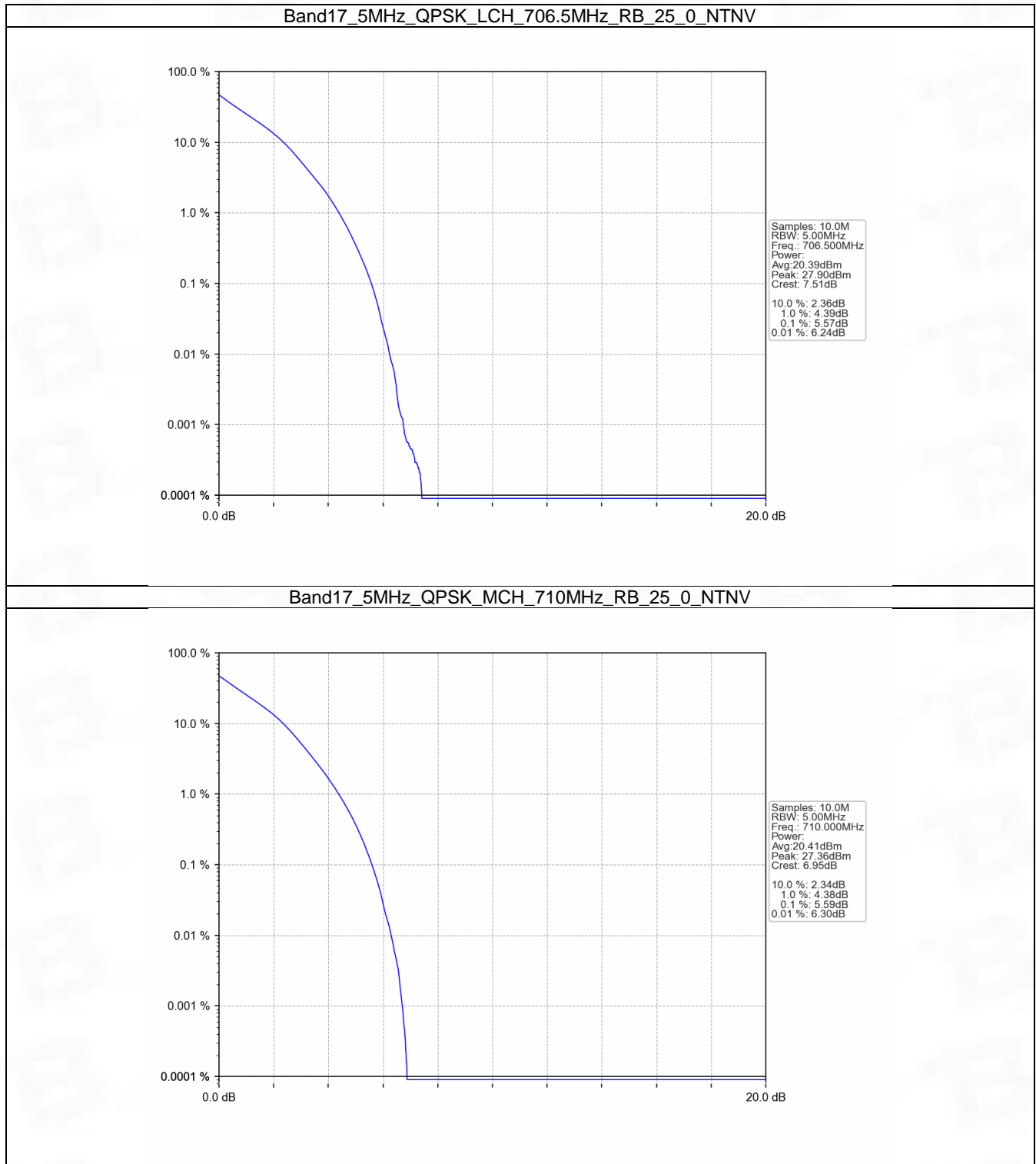
5. Peak-Average Ratio

5.1 B17_5MHz

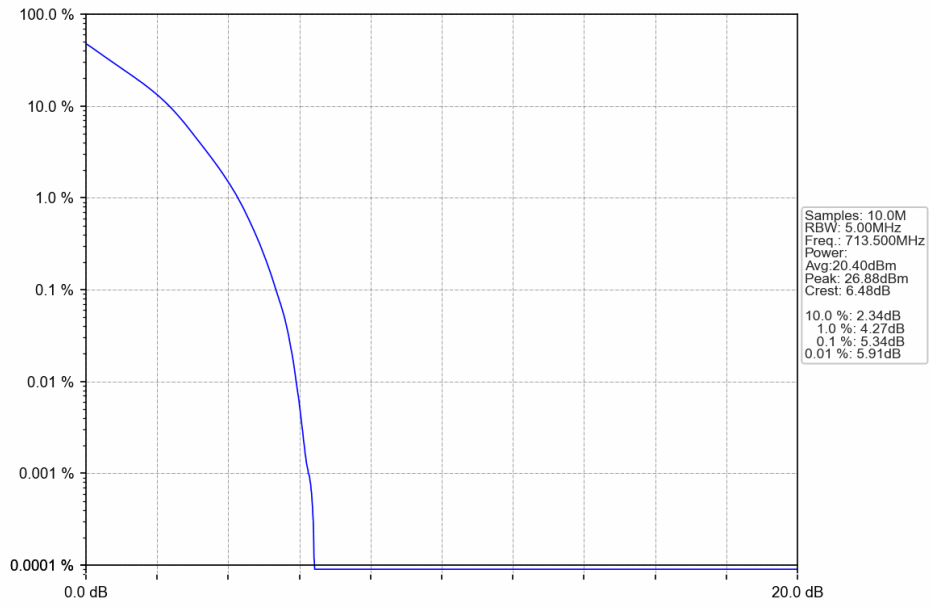
5.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	25	0	5.57	<=13	Pass
	710	25	0	5.59	<=13	Pass
	713.5	25	0	5.34	<=13	Pass
16QAM	706.5	25	0	6.23	<=13	Pass
	710	25	0	6.23	<=13	Pass
	713.5	25	0	6.06	<=13	Pass

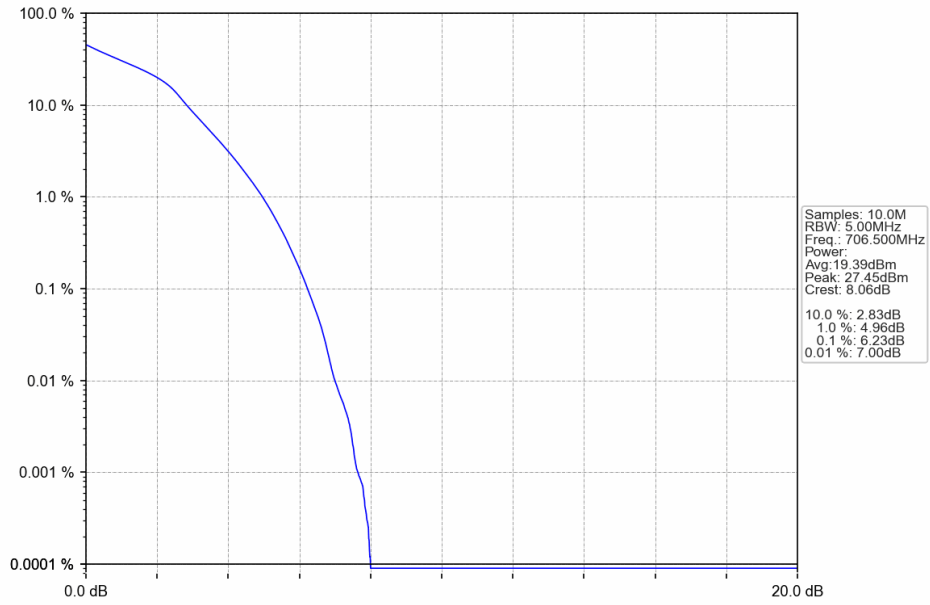
5.1.2 Test Graph



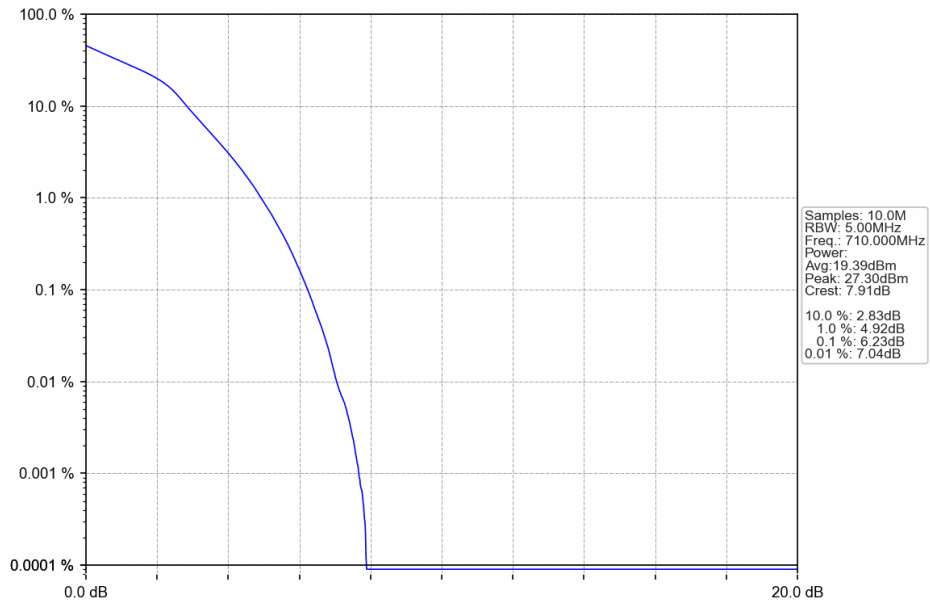
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



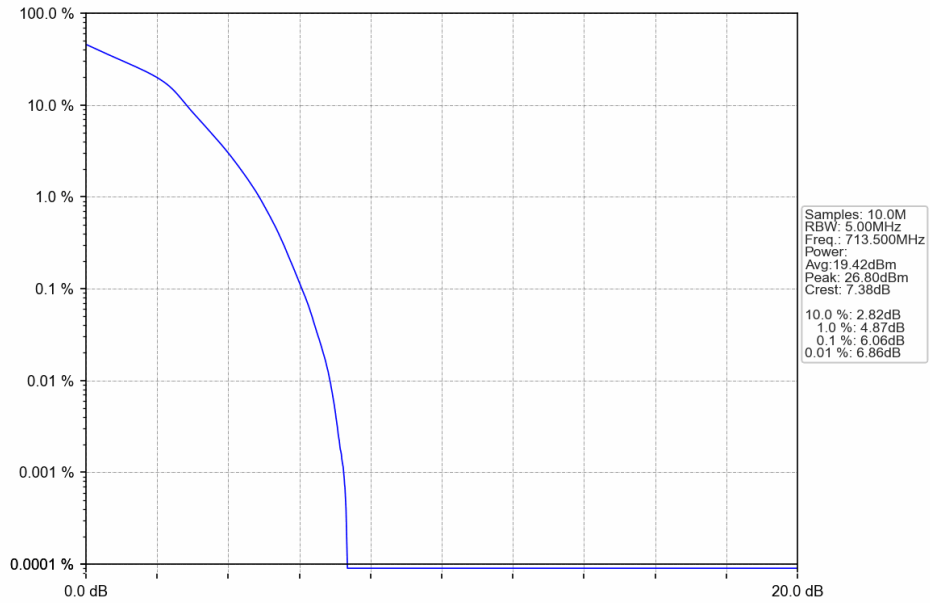
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

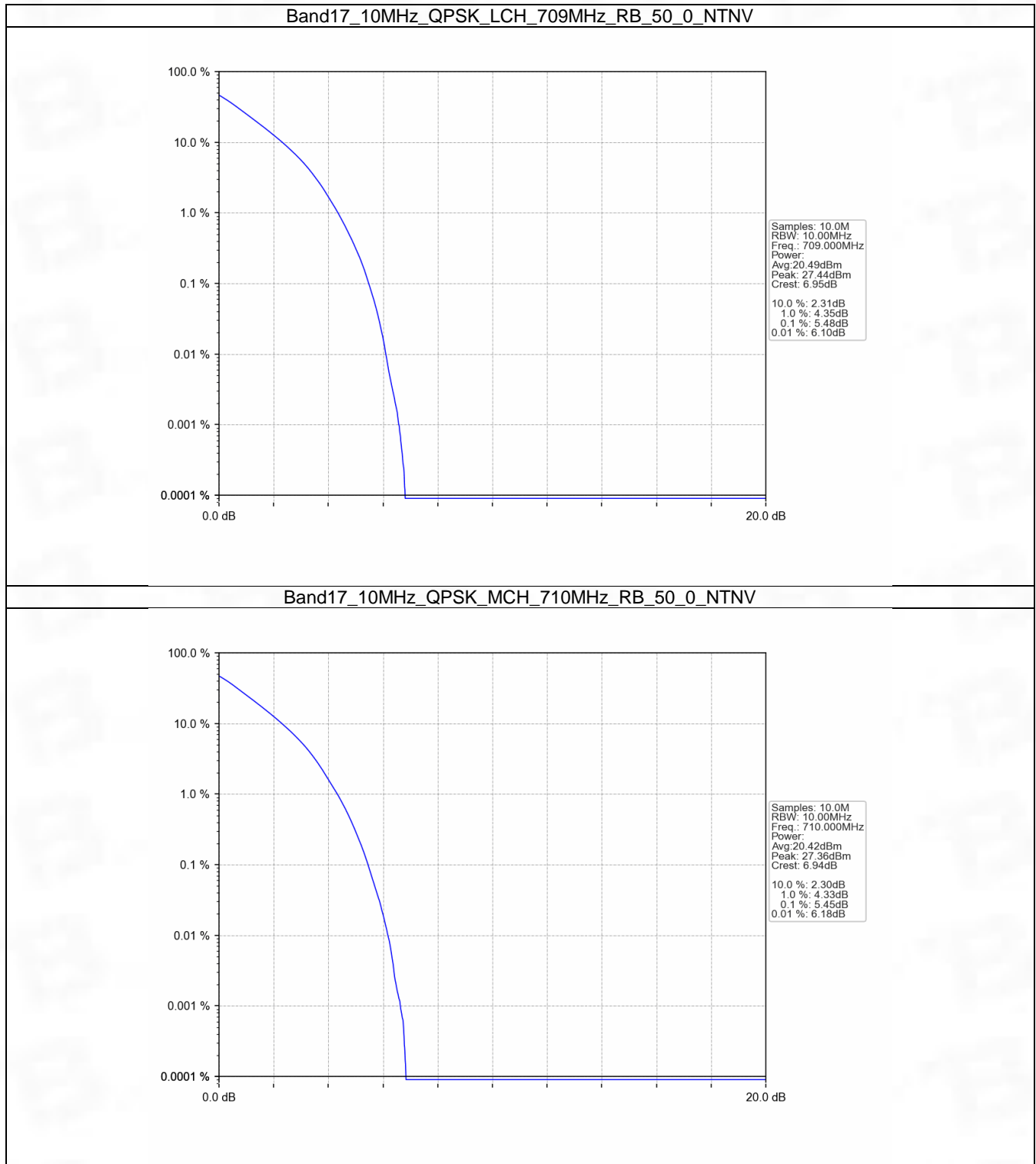


5.2 B17_10MHz

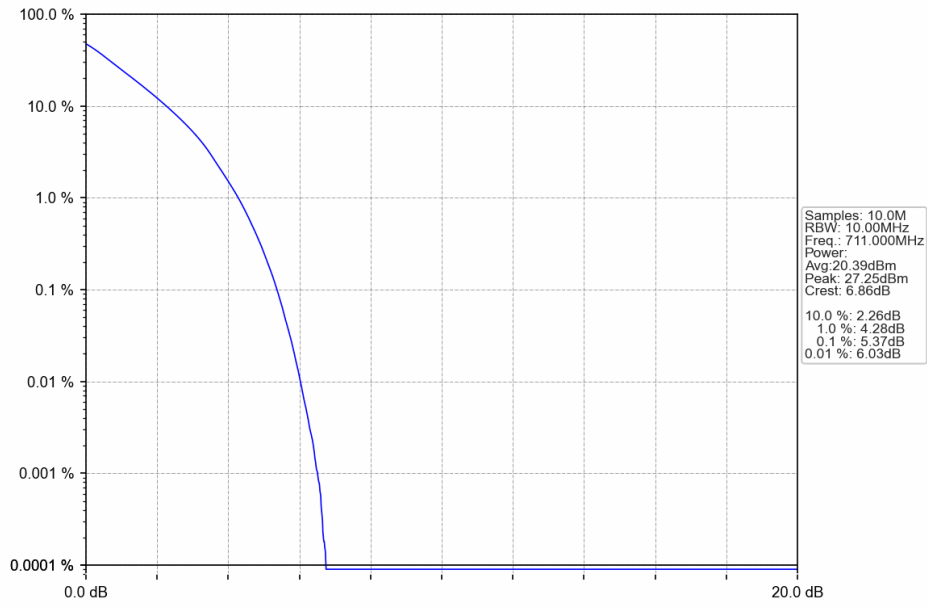
5.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	709	50	0	5.48	<=13	Pass
	710	50	0	5.45	<=13	Pass
	711	50	0	5.37	<=13	Pass
16QAM	709	50	0	6.24	<=13	Pass
	710	50	0	6.18	<=13	Pass
	711	50	0	6.16	<=13	Pass

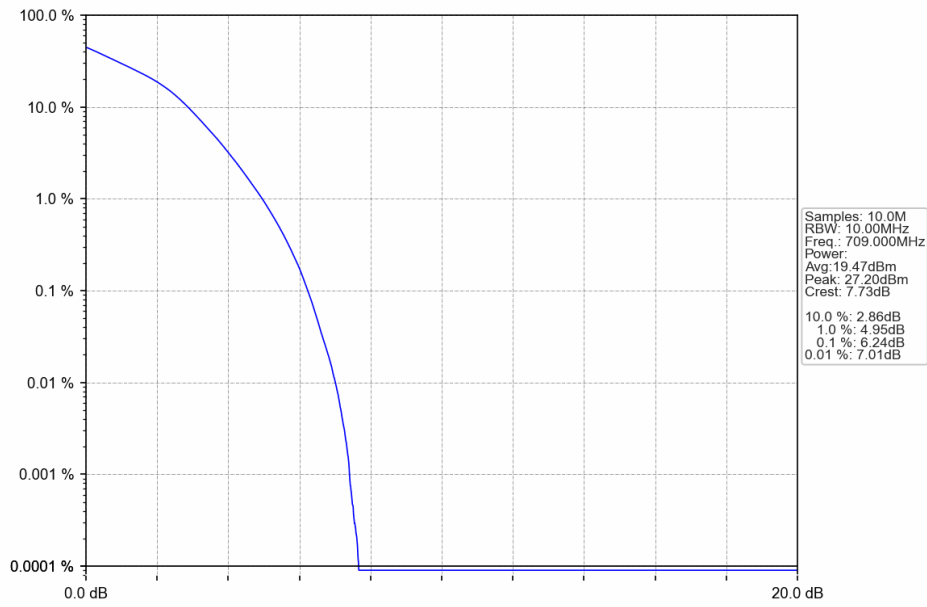
5.2.2 Test Graph



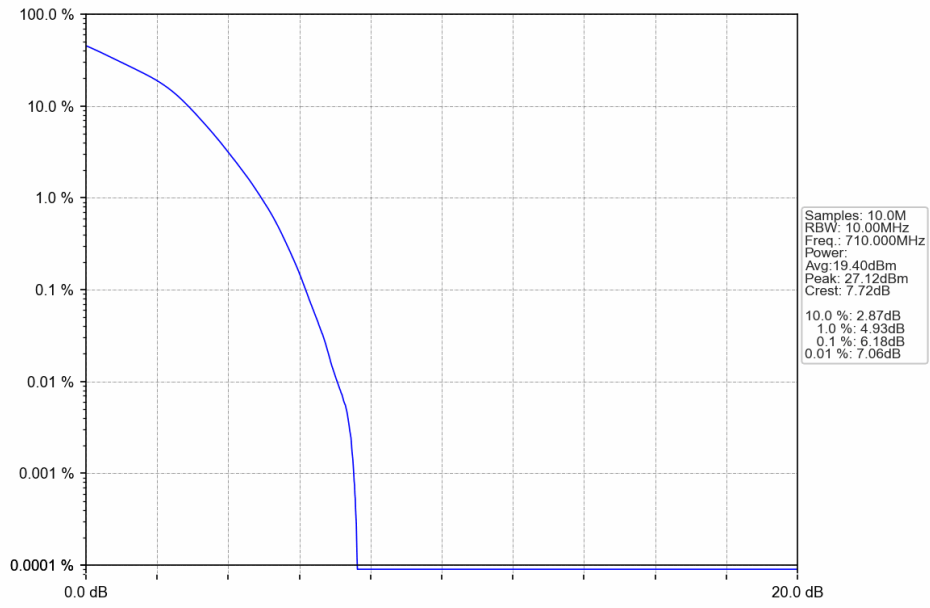
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



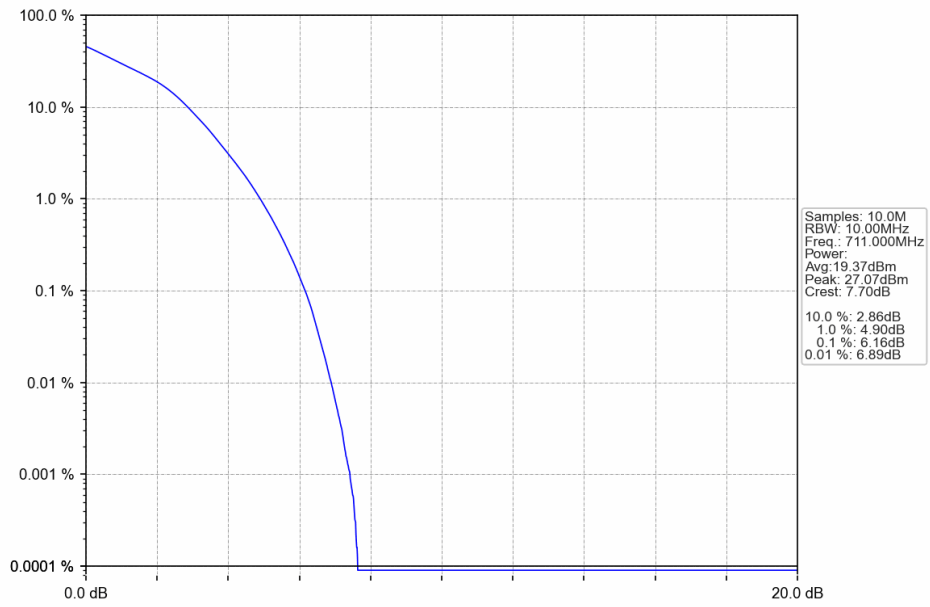
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



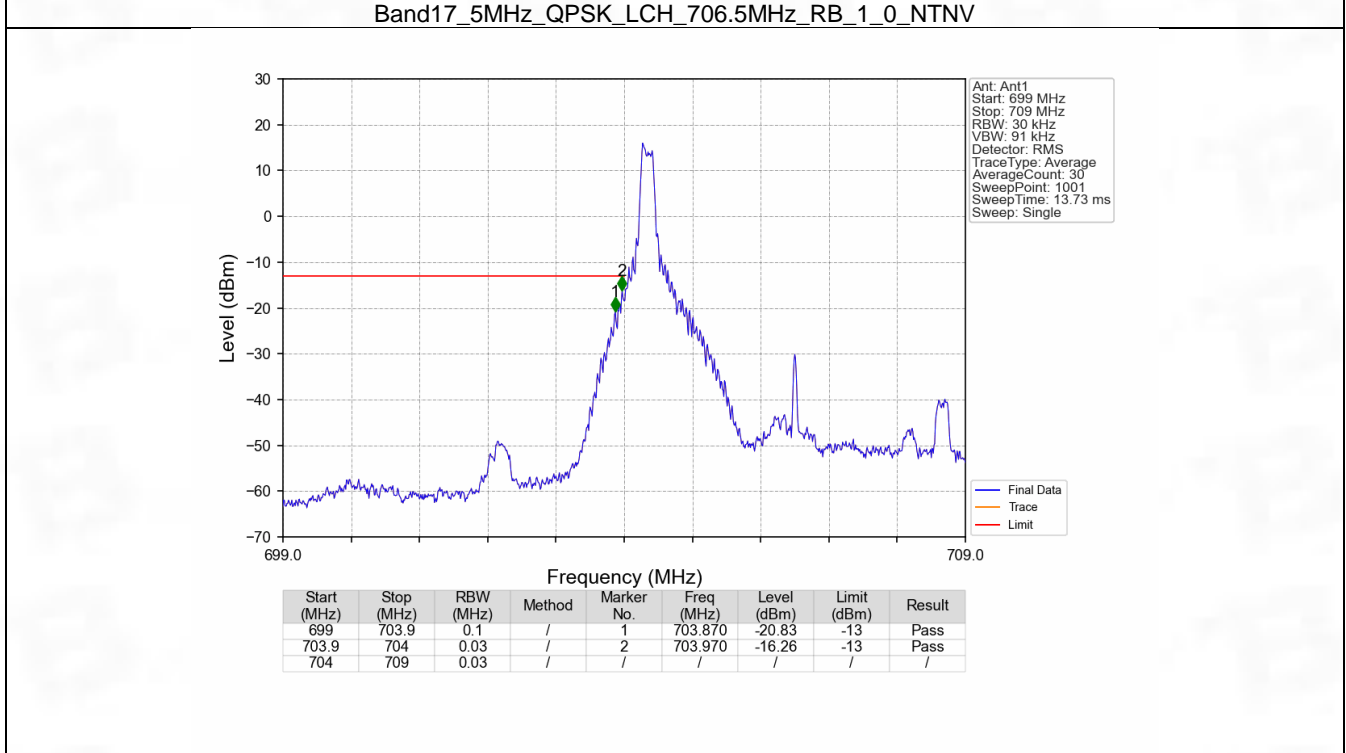
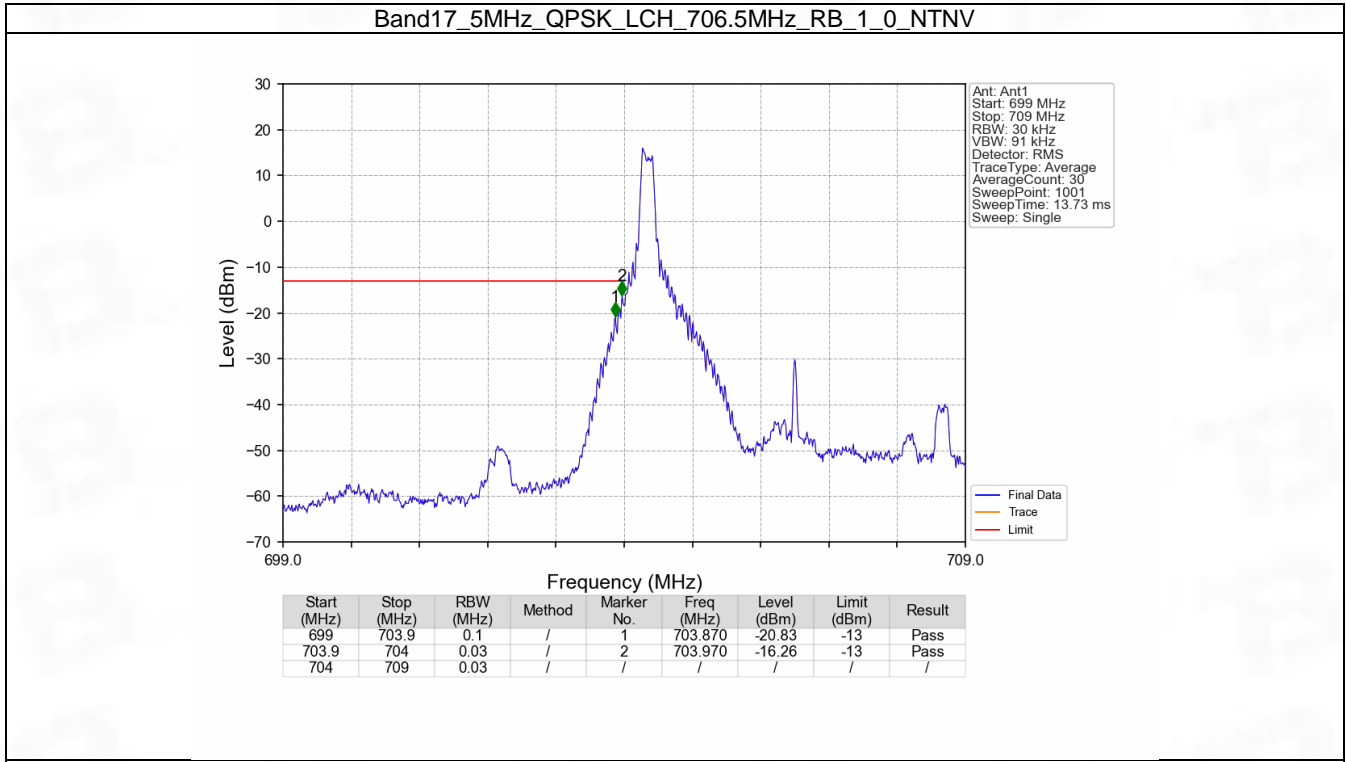
6. Spurious Emission

6.1 B17_5MHz

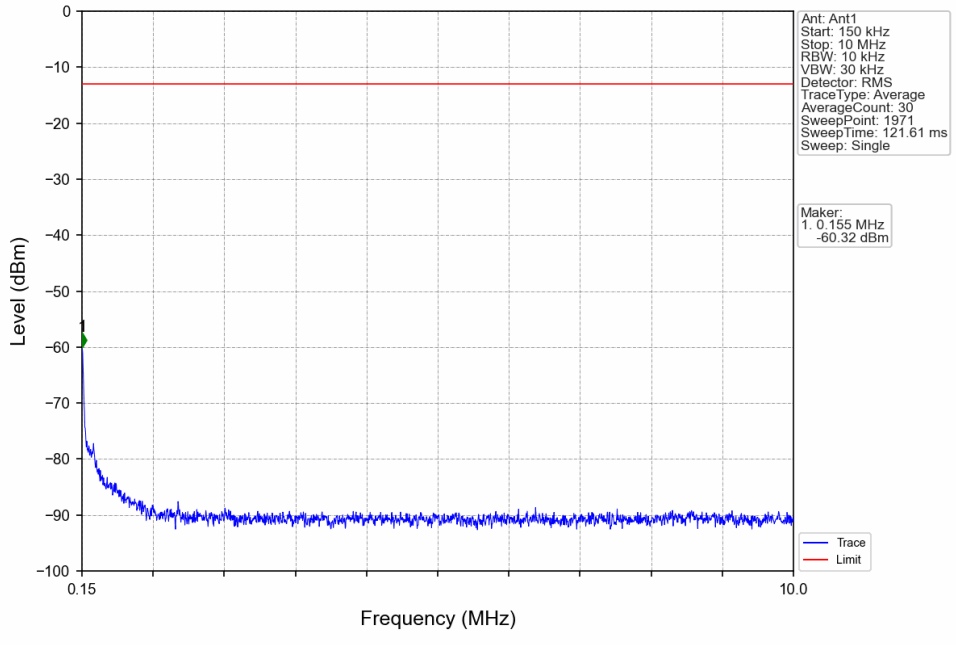
6.1.1 Test Result

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

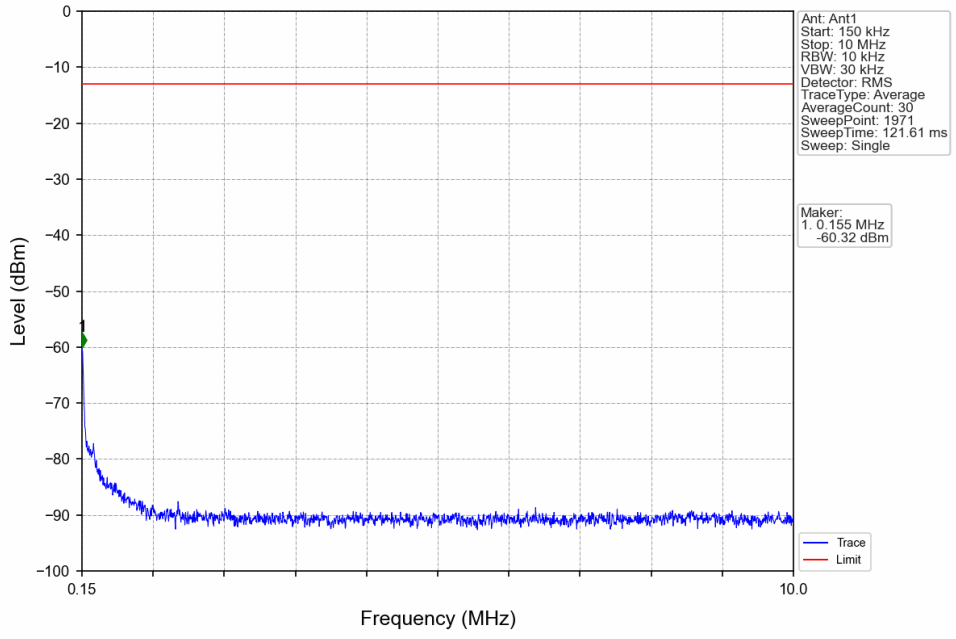
6.1.2 Test Graph



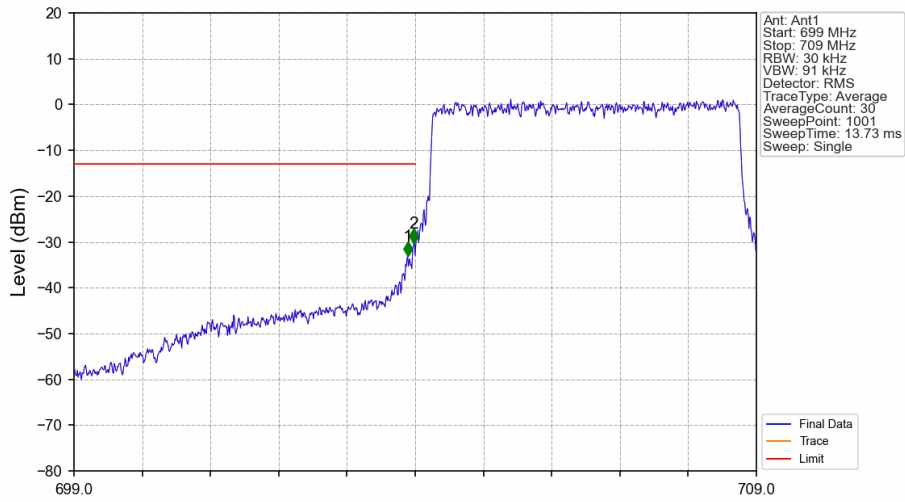
Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV



Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV

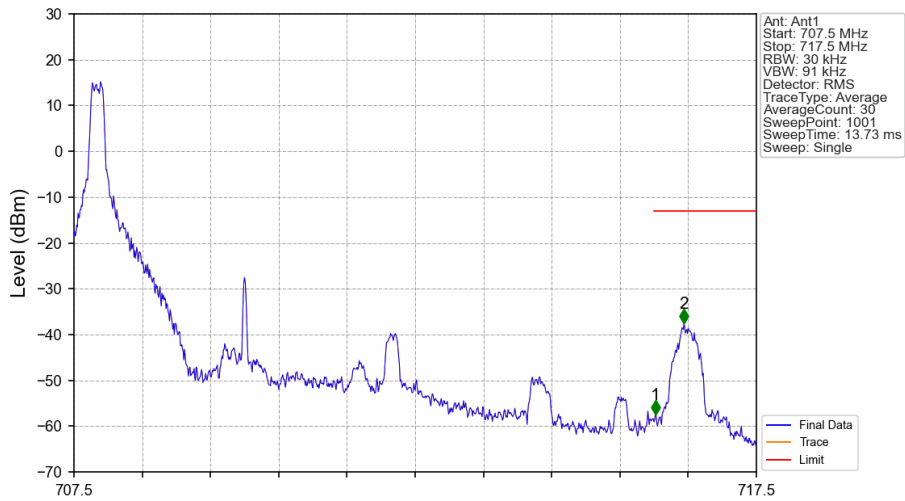


Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV



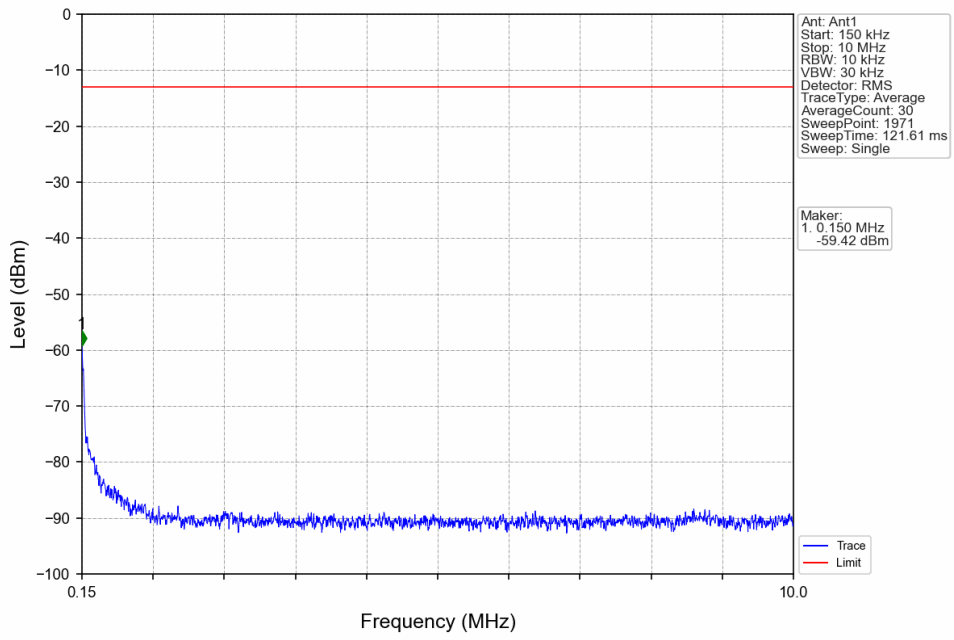
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	/	1	703.890	-33.16	-13	Pass
703.9	704	0.03	/	2	703.980	-30.26	-13	Pass
704	709	0.03	/	/	/	/	/	/

Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV

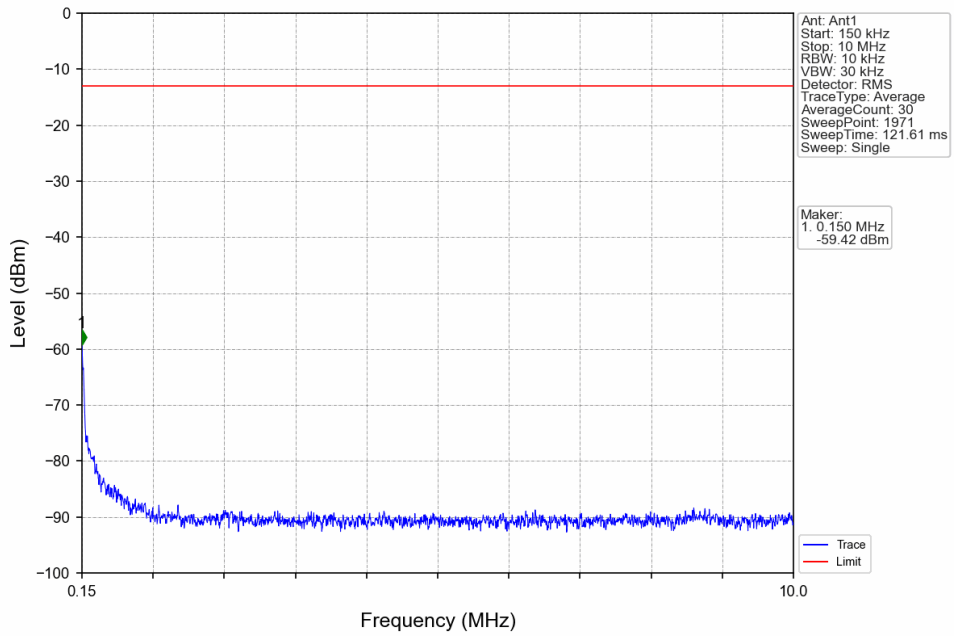


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
707.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.020	-57.46	-13	Pass
716.1	717.5	0.1	/	2	716.440	-37.58	-13	Pass

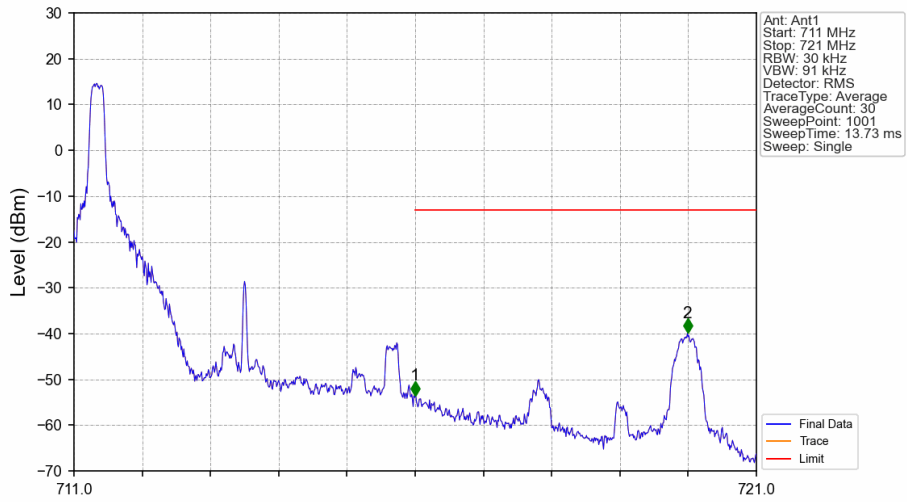
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV

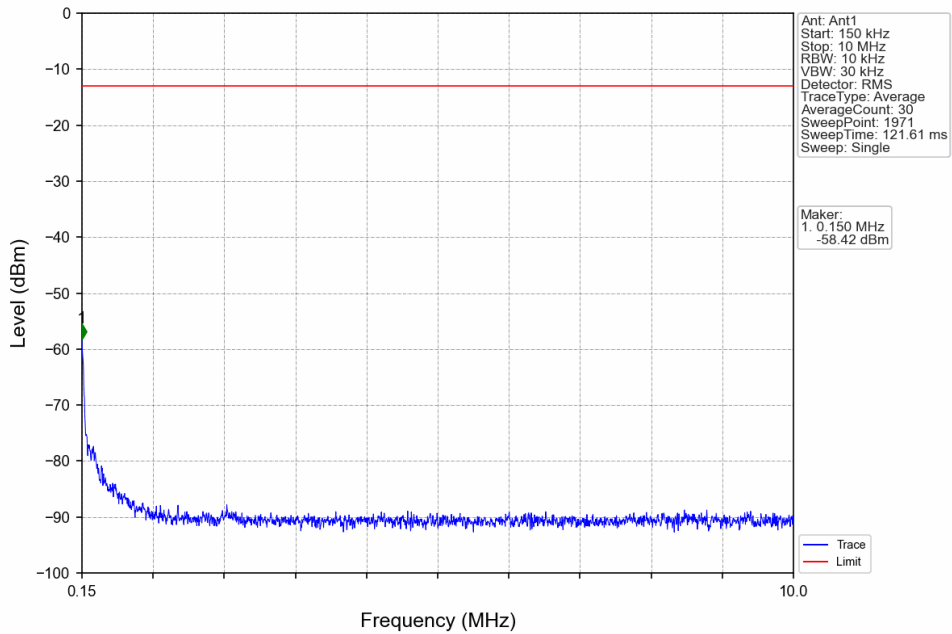


Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

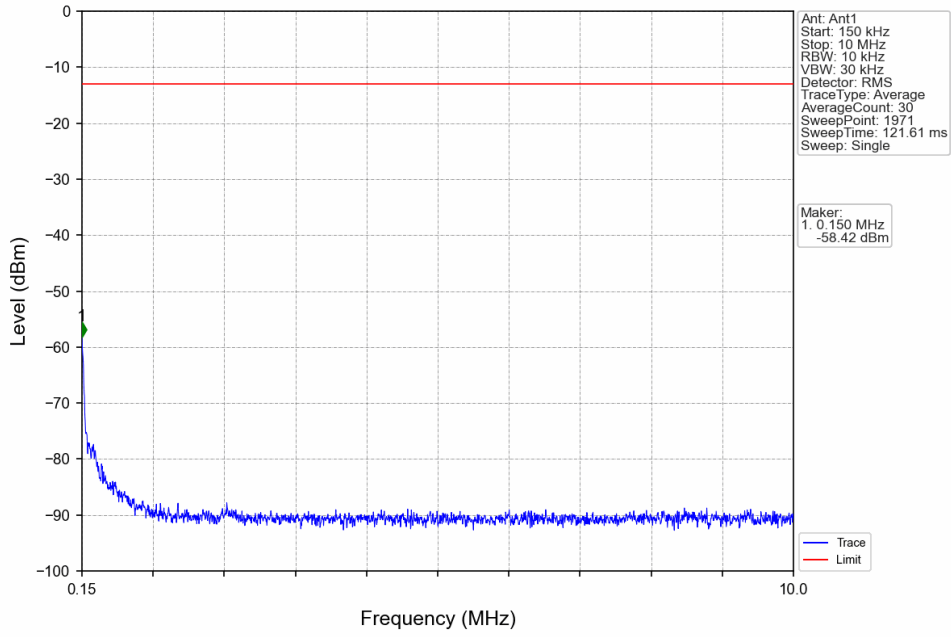


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-53.51	-13	Pass
716.1	721	0.1	/	2	719.990	-39.86	-13	Pass

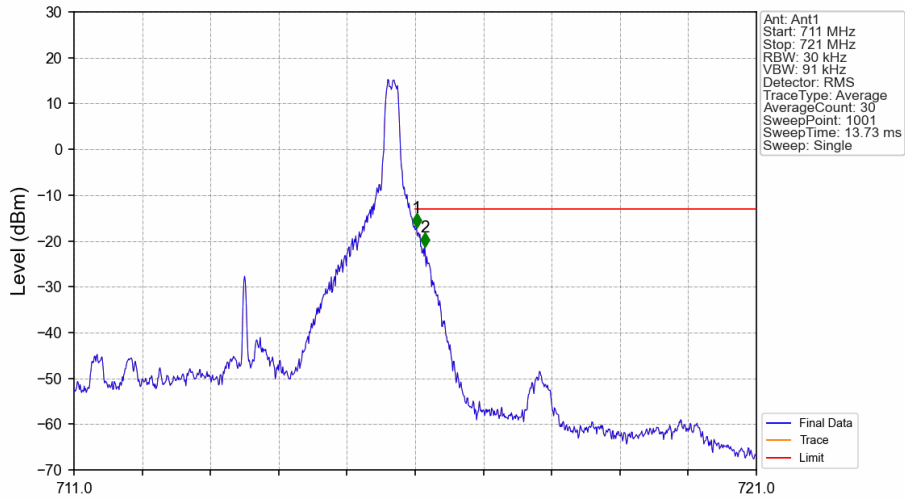
Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

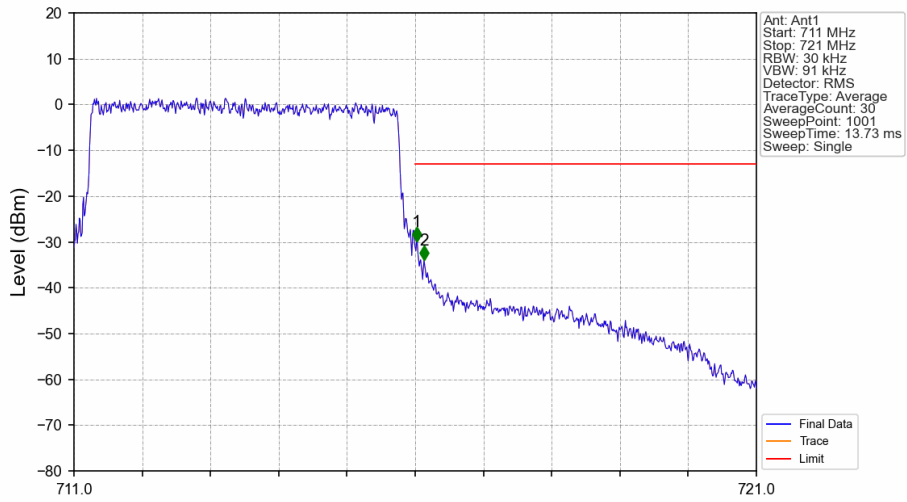


Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



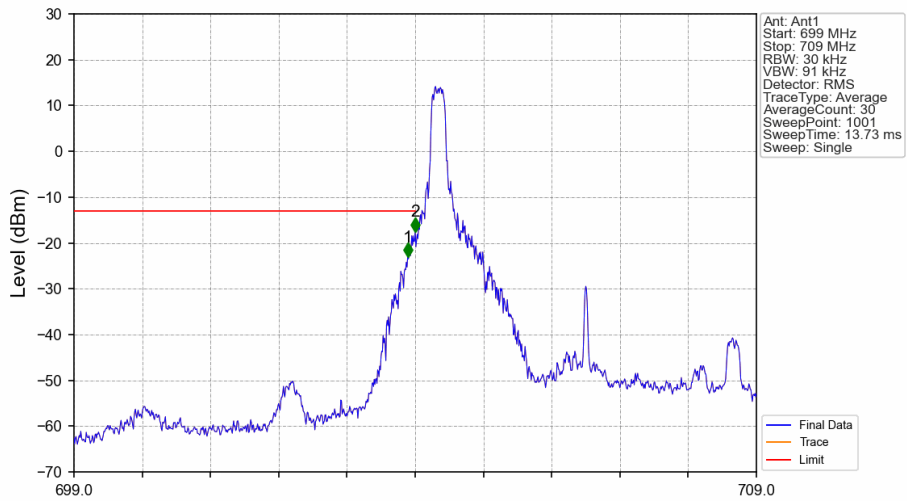
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.020	-17.14	-13	Pass
716.1	721	0.1	/	2	716.140	-21.33	-13	Pass

Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



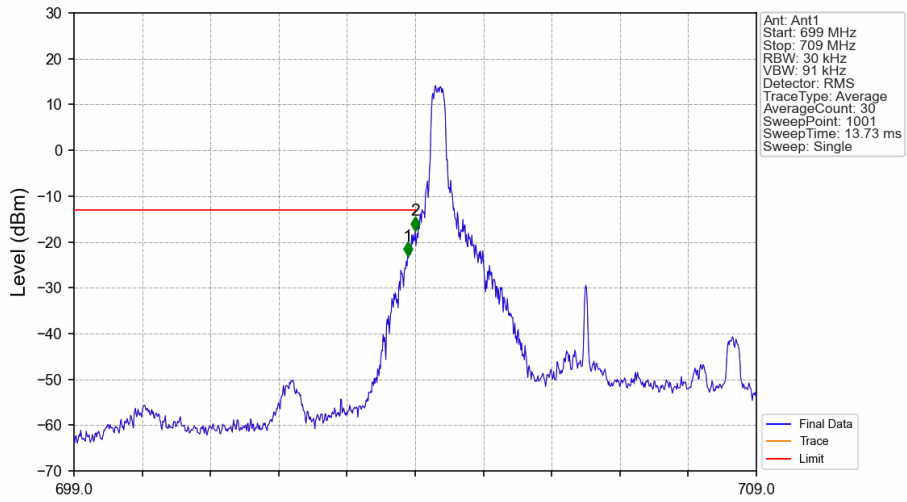
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.020	-29.87	-13	Pass
716.1	721	0.1	/	2	716.130	-33.96	-13	Pass

Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



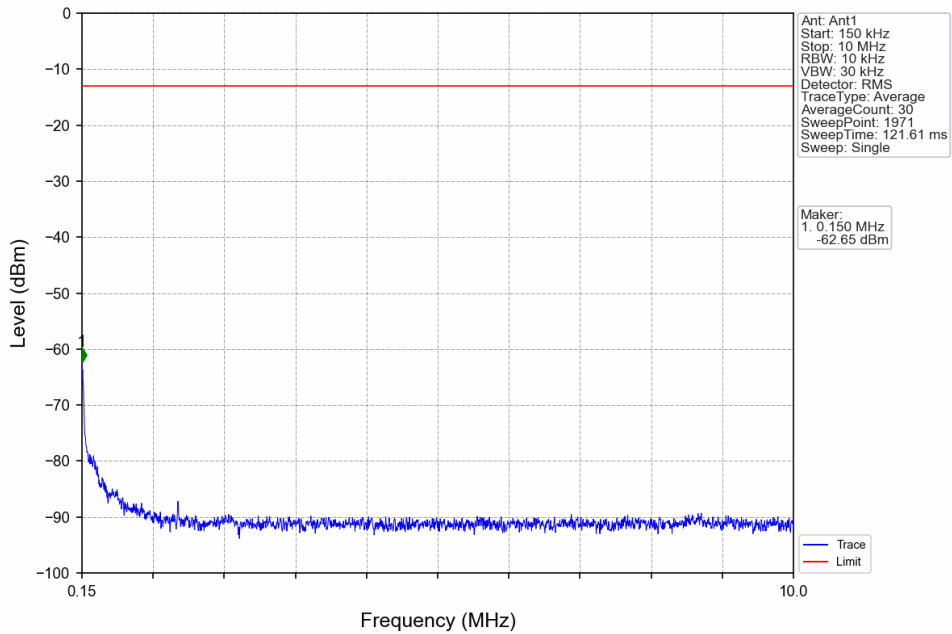
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	/	1	703.890	-23.06	-13	Pass
703.9	704	0.03	/	2	704.000	-17.56	-13	Pass
704	709	0.03	/	/	/	/	/	/

Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV

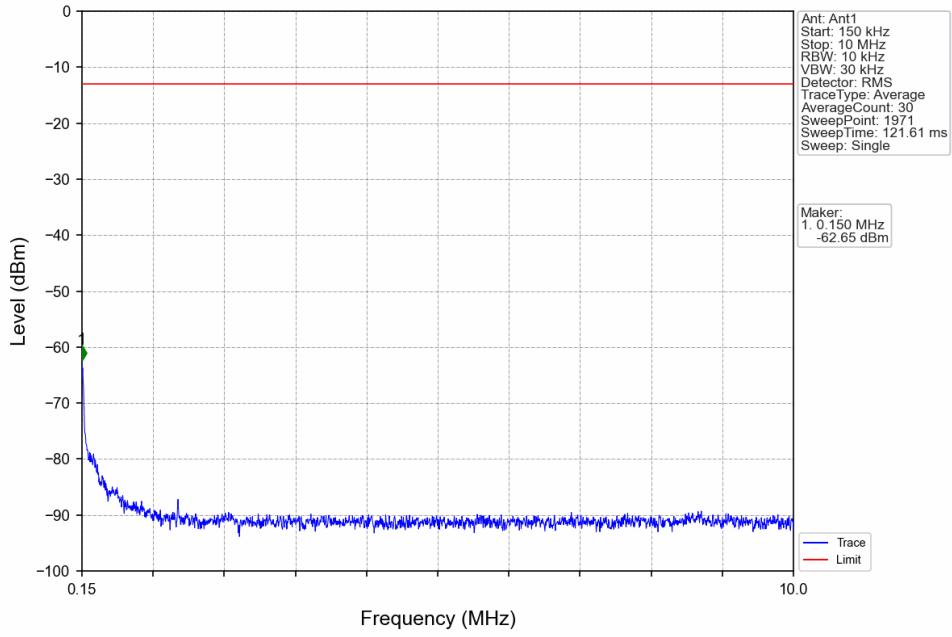


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	/	1	703.890	-23.06	-13	Pass
703.9	704	0.03	/	2	704.000	-17.56	-13	Pass
704	709	0.03	/	/	/	/	/	/

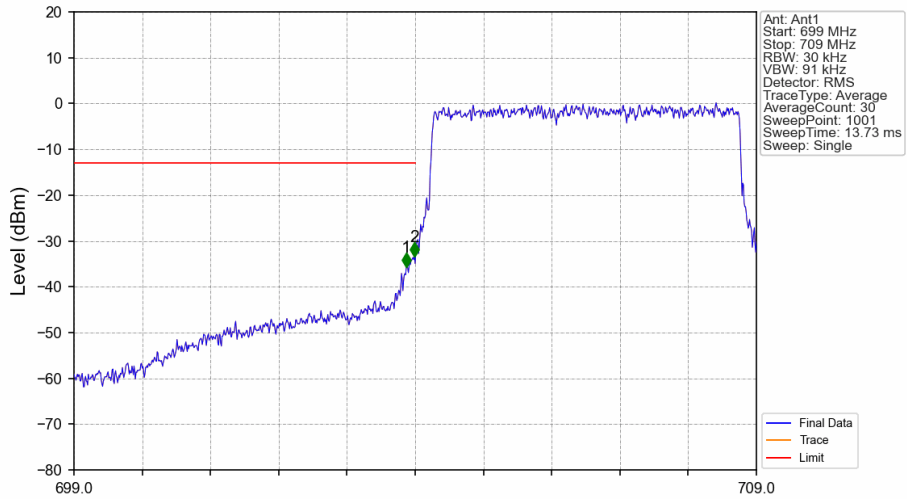
Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV

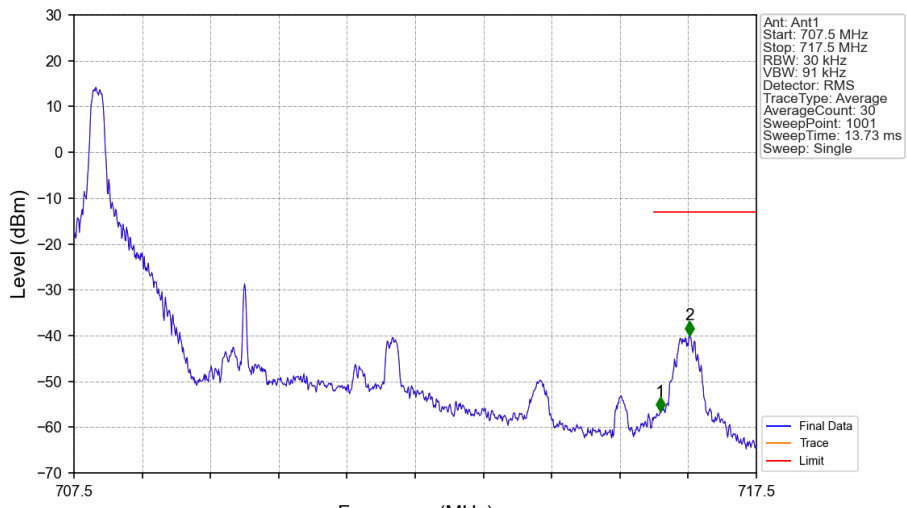


Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



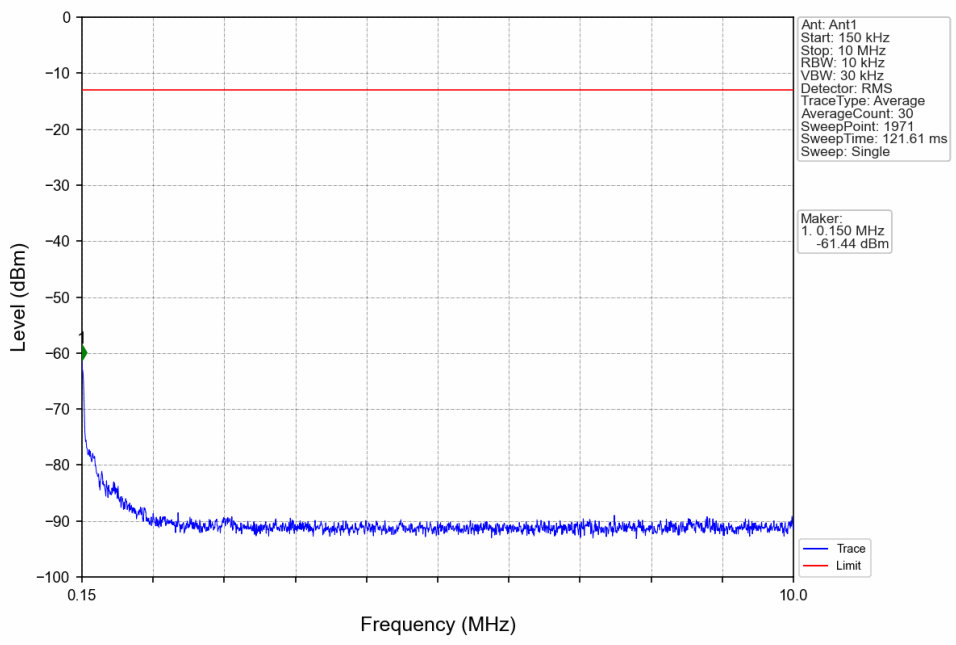
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	/	1	703.870	-35.73	-13	Pass
703.9	704	0.03	/	2	703.990	-33.44	-13	Pass
704	709	0.03	/	/	/	/	/	/

Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV

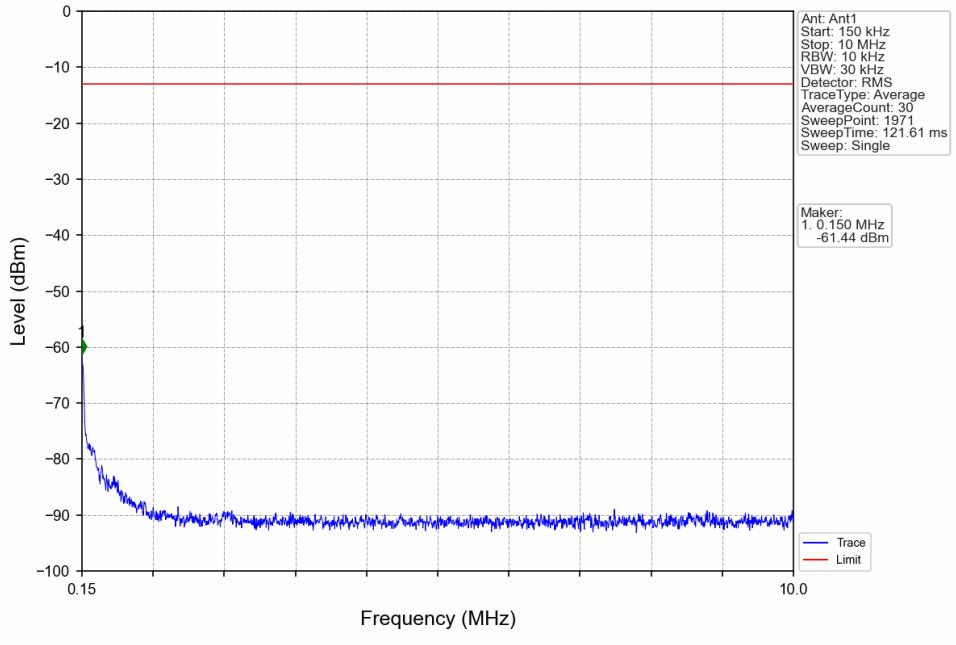


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
707.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.090	-56.59	-13	Pass
716.1	717.5	0.1	/	2	716.520	-39.95	-13	Pass

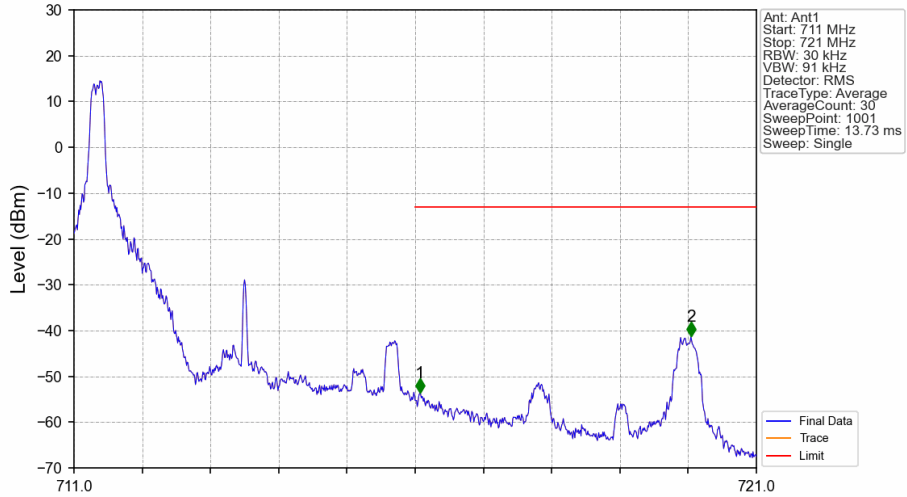
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV

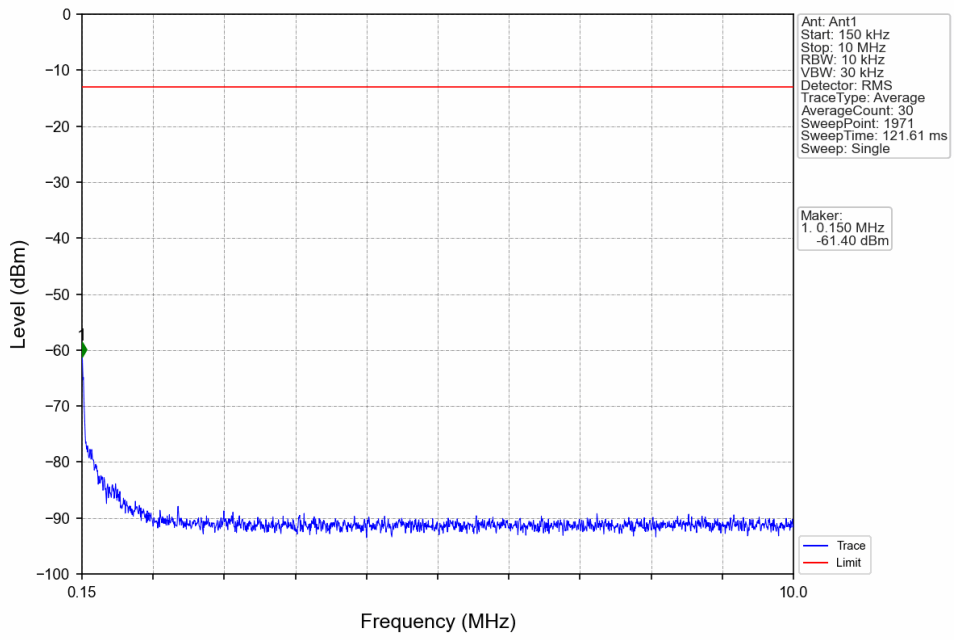


Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV

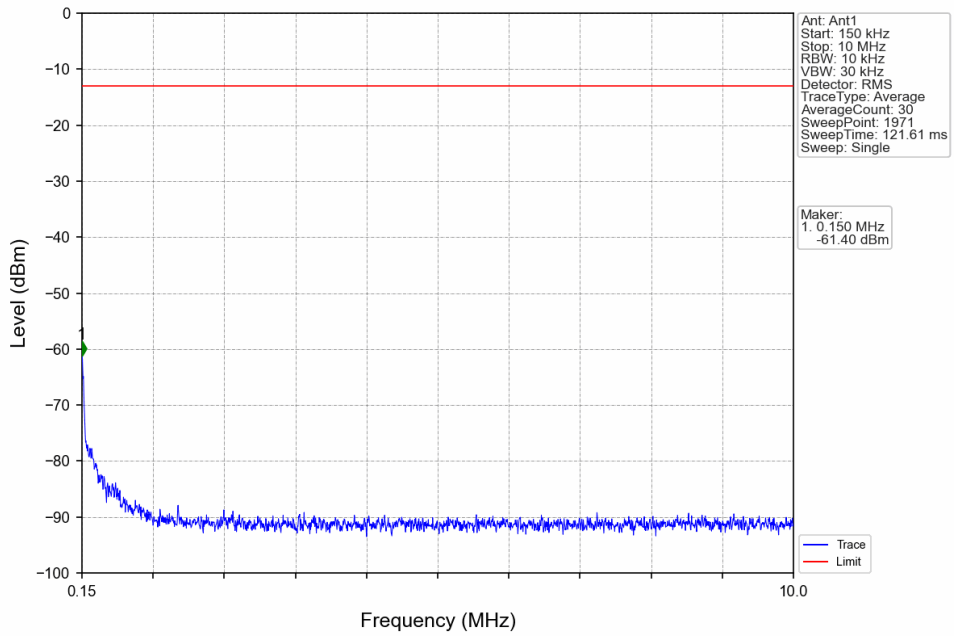


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.070	-53.67	-13	Pass
716.1	721	0.1	/	2	720.040	-41.33	-13	Pass

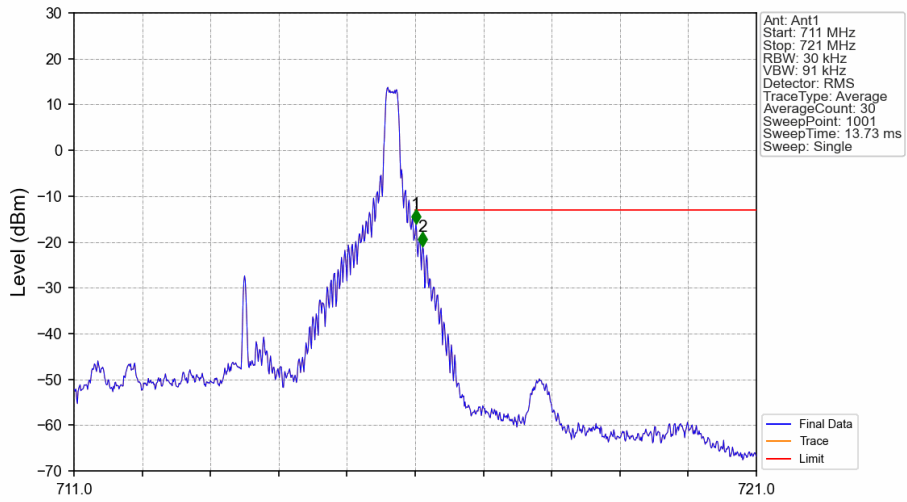
Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV

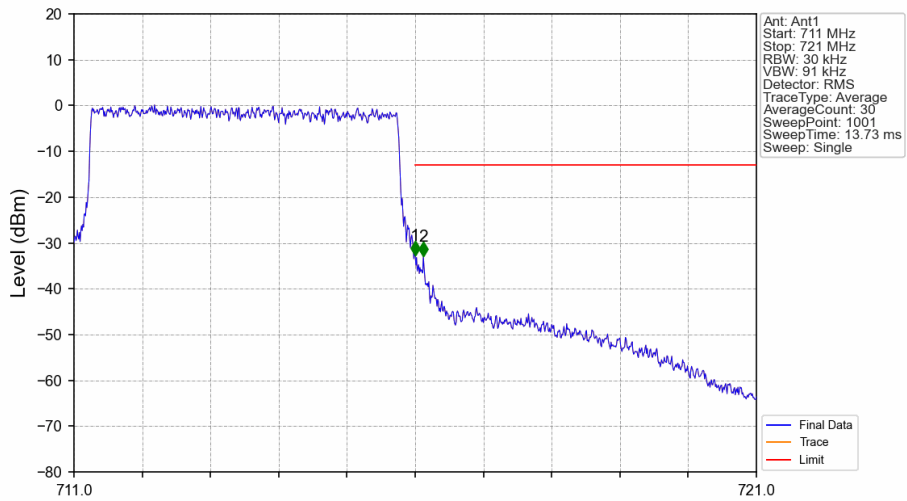


Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-16.03	-13	Pass
716.1	721	0.1	/	2	716.110	-21.02	-13	Pass

Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



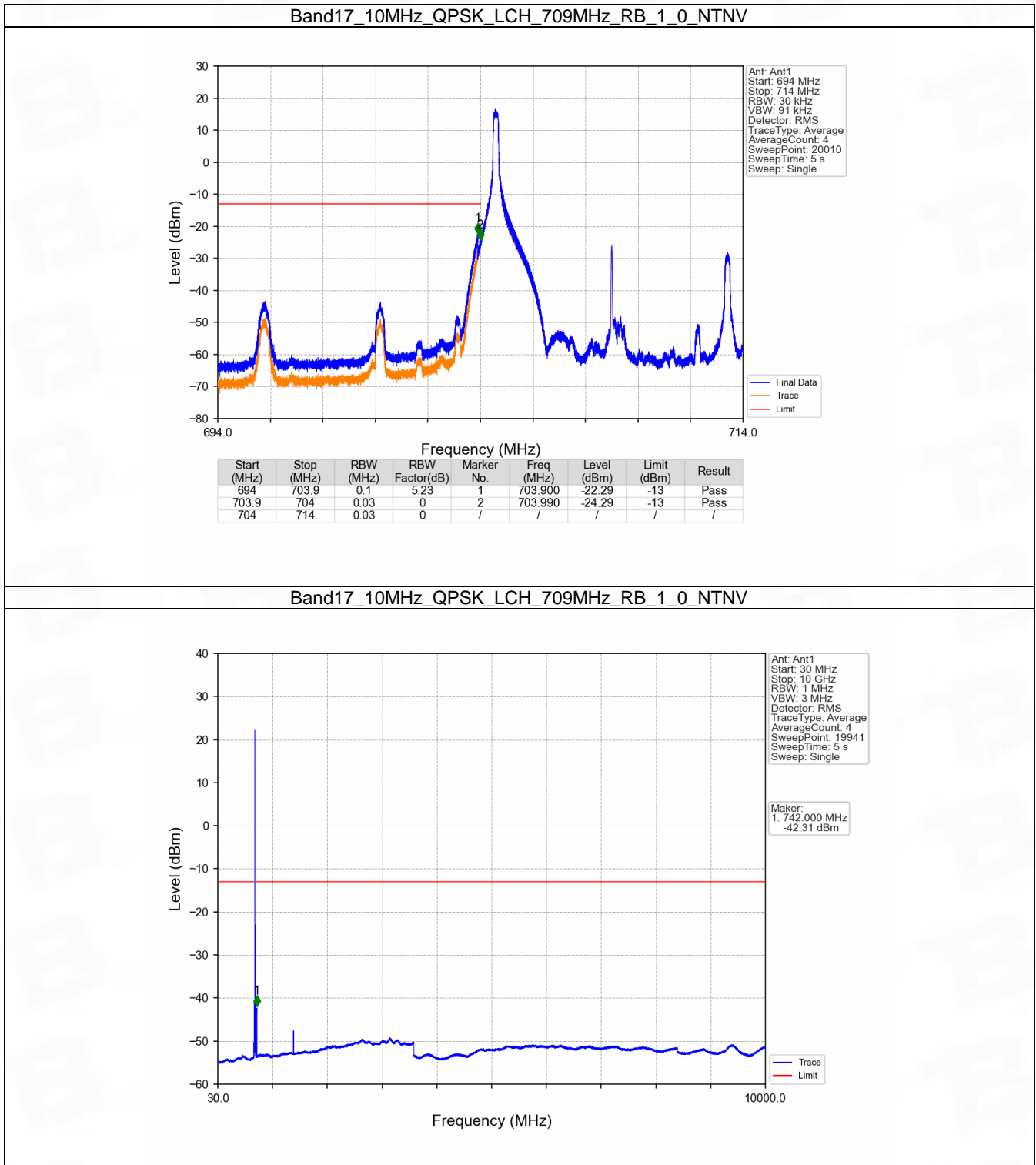
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-32.69	-13	Pass
716.1	721	0.1	/	2	716.120	-32.98	-13	Pass

6.2 B17_10MHz

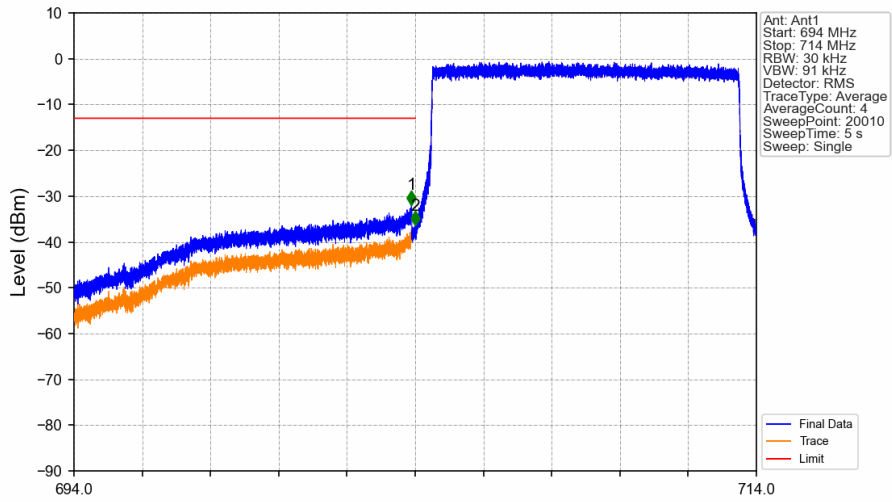
6.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTV						
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
		1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	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
		1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

6.2.2 Test Graph

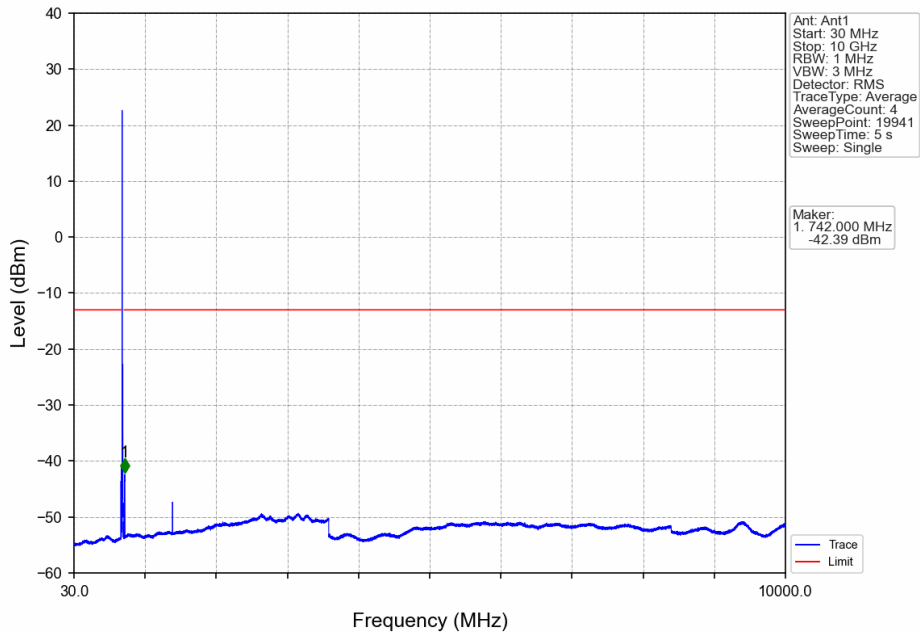


Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV

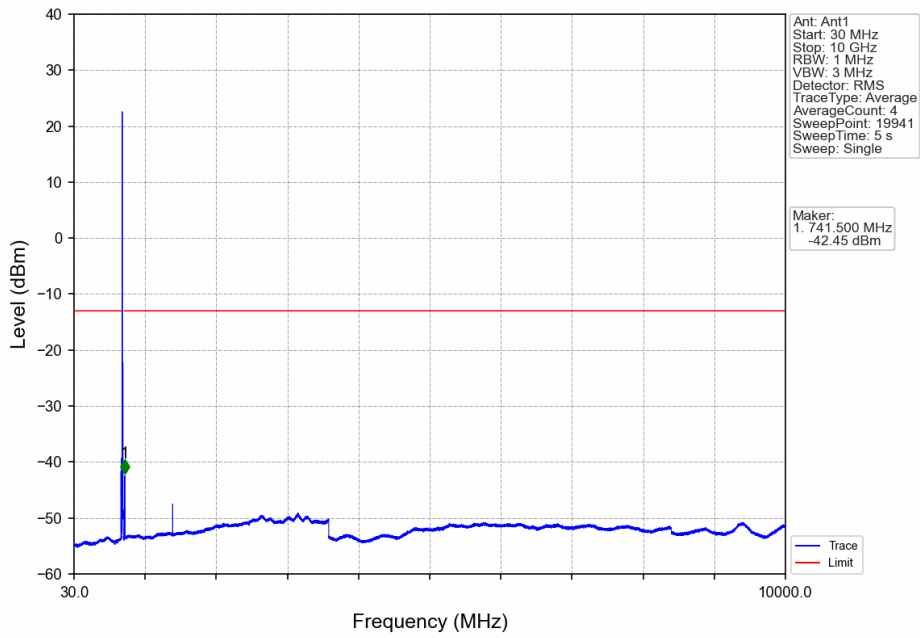


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	5.23	1	703.889	-31.88	-13	Pass
703.9	704	0.03	0	2	703.997	-36.42	-13	Pass
704	714	0.03	0	/	/	/	/	/

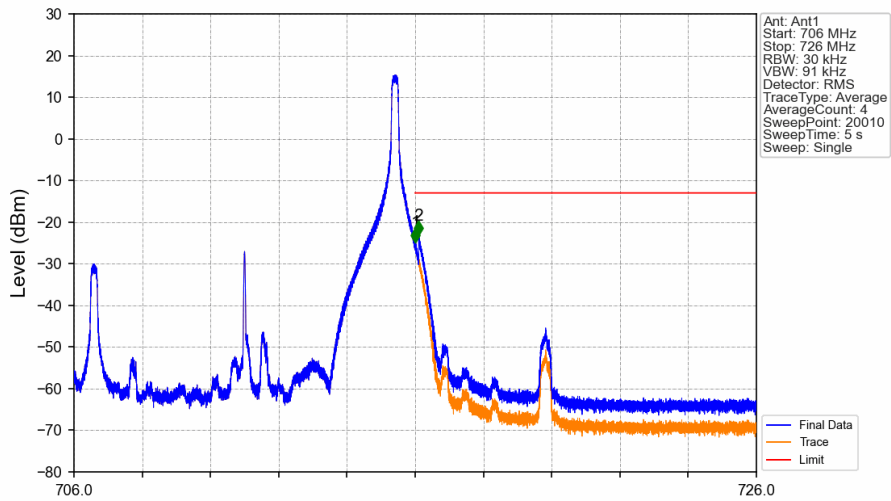
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

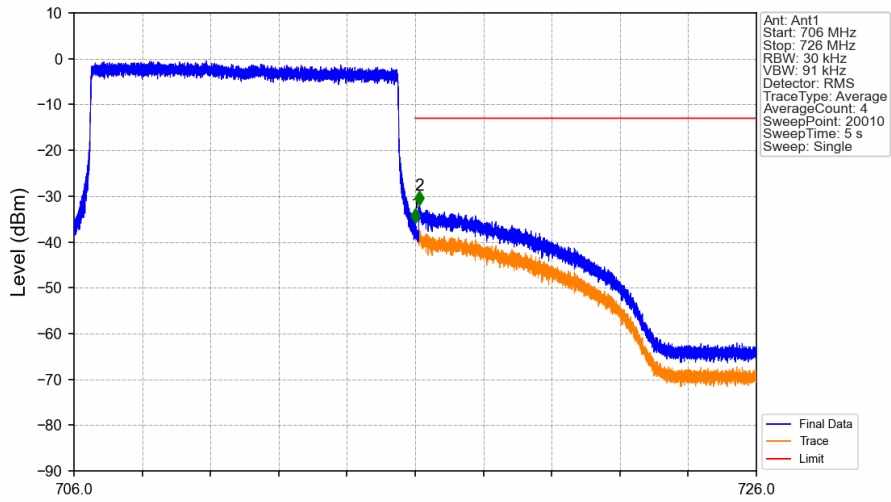


Band17_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



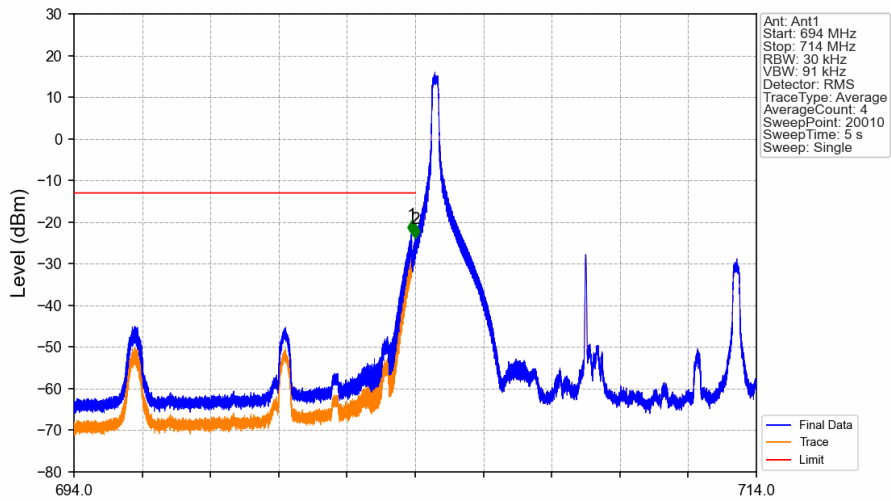
Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.009	-24.83	-13	Pass
716.1	726	0.1	5.23	2	716.102	-23.21	-13	Pass

Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



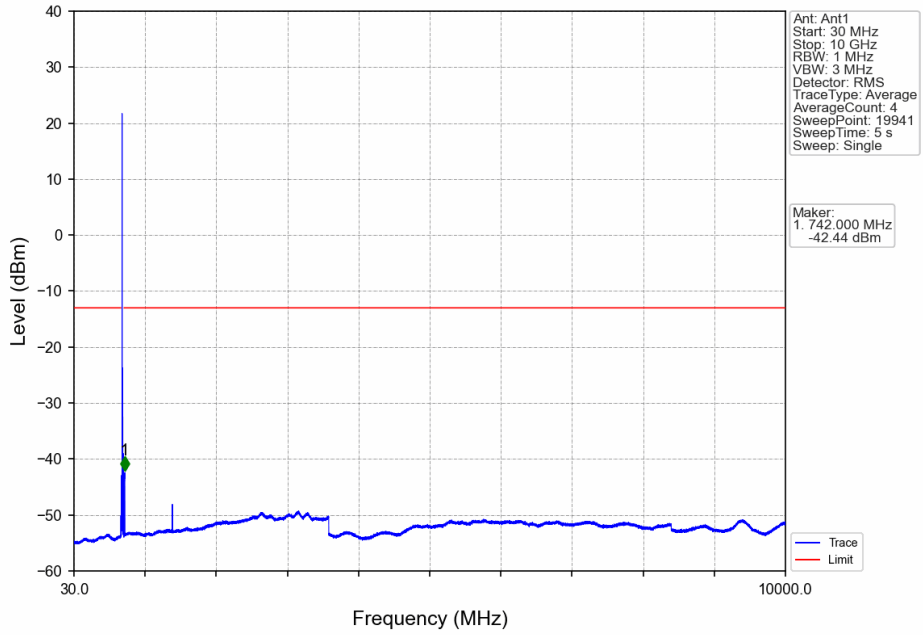
Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.010	-35.86	-13	Pass
716.1	726	0.1	5.23	2	716.119	-32.04	-13	Pass

Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV

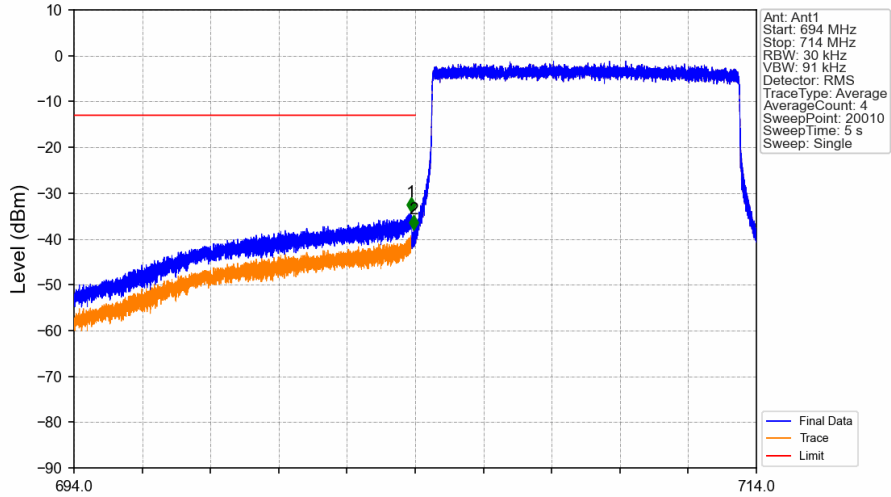


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	5.23	1	703.896	-22.98	-13	Pass
703.9	704	0.03	0	2	703.998	-23.99	-13	Pass
704	714	0.03	0	/	/	/	/	/

Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV

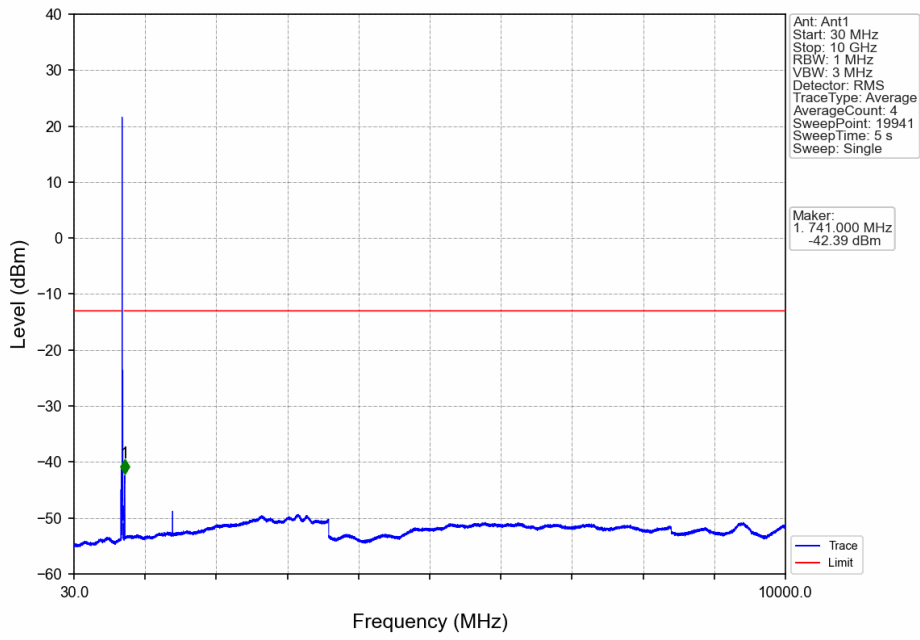


Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV

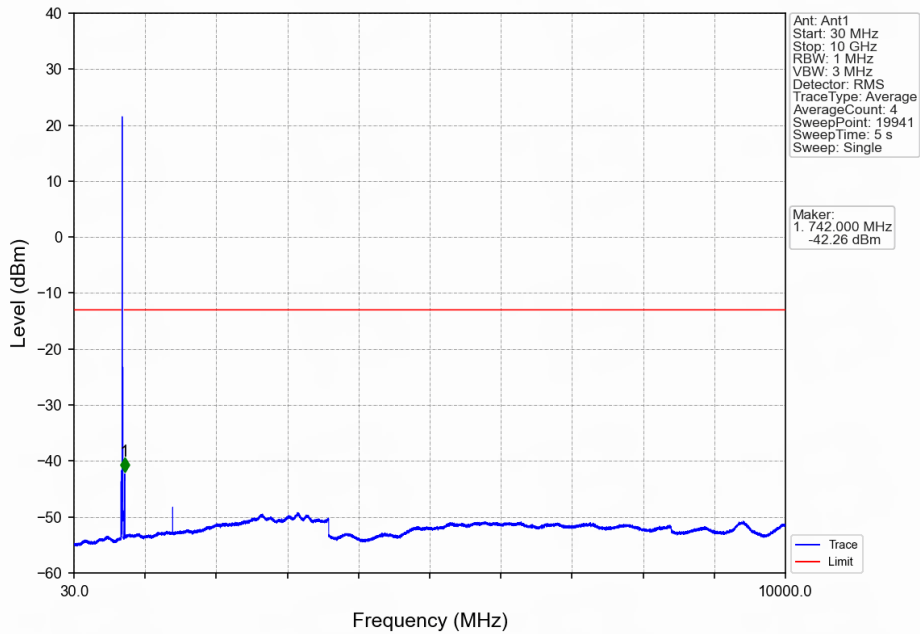


Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	5.23	1	703.873	-34.06	-13	Pass
703.9	704	0.03	0	2	703.960	-37.89	-13	Pass
704	714	0.03	0	/	/	/	/	/

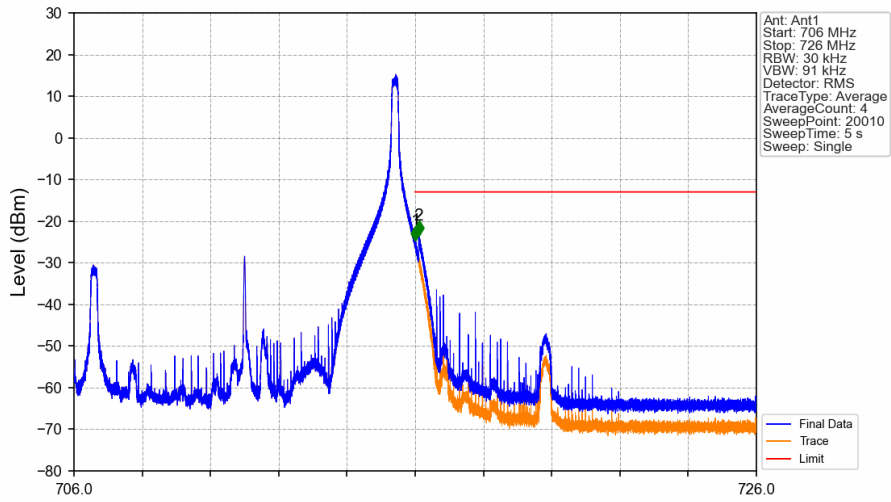
Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV

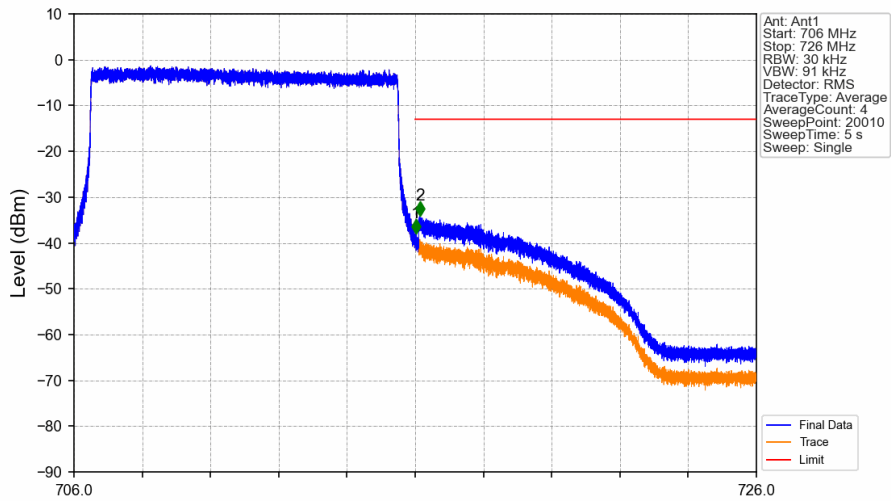


Band17_10MHz_16QAM_HCH_711MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.007	-24.64	-13	Pass
716.1	726	0.1	5.23	2	716.107	-23.33	-13	Pass

Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	0	/	/	/	/	/
716	716.1	0.03	0	1	716.019	-37.88	-13	Pass
716.1	726	0.1	5.23	2	716.136	-34.01	-13	Pass

7. Form731

7.1 Form731_Power

7.1.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
17	5	706.5	713.5	0.1549	0.0172	ppm	4M58G7D	27H	21.90
17	5	706.5	713.5	0.1294	0.0062	ppm	4M57W7D	27H	21.12
17	10	709	711	0.1596	0.0049	ppm	9M09G7D	27H	22.03
17	10	709	711	0.1435	0.0033	ppm	9M07W7D	27H	21.57

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)
17	5	706.5	713.5	0.1011	0.0172	ppm	4M58G7D	27H	20.05
17	5	706.5	713.5	0.0845	0.0062	ppm	4M57W7D	27H	19.27
17	10	709	711	0.1042	0.0049	ppm	9M09G7D	27H	20.18
17	10	709	711	0.0937	0.0033	ppm	9M07W7D	27H	19.72