

1. Effective (Isotropic) Radiated Power Output Data
1.1 B17_5MHz_ERP
1.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	706.5	1	0	23.85	-0.22	21.48	<=34.77	Pass		
			13	23.65	-0.22	21.28	<=34.77	Pass		
			24	23.59	-0.22	21.22	<=34.77	Pass		
		12	0	22.73	-0.22	20.36	<=34.77	Pass		
			6	22.63	-0.22	20.26	<=34.77	Pass		
			13	22.71	-0.22	20.34	<=34.77	Pass		
		25	0	22.64	-0.22	20.27	<=34.77	Pass		
		710	1	0	24.18	-0.22	21.81	<=34.77	Pass	
				13	23.94	-0.22	21.57	<=34.77	Pass	
	24			23.47	-0.22	21.10	<=34.77	Pass		
	12		0	22.68	-0.22	20.31	<=34.77	Pass		
			6	22.70	-0.22	20.33	<=34.77	Pass		
			13	22.63	-0.22	20.26	<=34.77	Pass		
	25		0	22.61	-0.22	20.24	<=34.77	Pass		
	713.5		1	0	23.40	-0.22	21.03	<=34.77	Pass	
				13	23.45	-0.22	21.08	<=34.77	Pass	
		24		23.42	-0.22	21.05	<=34.77	Pass		
		12	0	22.49	-0.22	20.12	<=34.77	Pass		
			6	22.59	-0.22	20.22	<=34.77	Pass		
			13	22.50	-0.22	20.13	<=34.77	Pass		
		25	0	22.38	-0.22	20.01	<=34.77	Pass		
		16QAM	706.5	1	0	23.01	-0.22	20.64	<=34.77	Pass
					13	23.30	-0.22	20.93	<=34.77	Pass
	24				22.96	-0.22	20.59	<=34.77	Pass	
12	0			21.50	-0.22	19.13	<=34.77	Pass		
	6			21.61	-0.22	19.24	<=34.77	Pass		
	13			21.38	-0.22	19.01	<=34.77	Pass		
25	0			21.62	-0.22	19.25	<=34.77	Pass		
710	1			0	22.60	-0.22	20.23	<=34.77	Pass	
				13	22.62	-0.22	20.25	<=34.77	Pass	
			24	22.47	-0.22	20.10	<=34.77	Pass		
	12		0	21.42	-0.22	19.05	<=34.77	Pass		
			6	21.56	-0.22	19.19	<=34.77	Pass		
			13	21.67	-0.22	19.30	<=34.77	Pass		
	25		0	21.55	-0.22	19.18	<=34.77	Pass		
	713.5		1	0	21.99	-0.22	19.62	<=34.77	Pass	
				13	21.90	-0.22	19.53	<=34.77	Pass	
24				21.70	-0.22	19.33	<=34.77	Pass		
12			0	21.54	-0.22	19.17	<=34.77	Pass		
			6	21.55	-0.22	19.18	<=34.77	Pass		
			13	21.41	-0.22	19.04	<=34.77	Pass		
25			0	21.81	-0.22	19.44	<=34.77	Pass		
64QAM			706.5	1	0	21.80	-0.22	19.43	<=34.77	Pass
					13	21.67	-0.22	19.30	<=34.77	Pass
	24				21.46	-0.22	19.09	<=34.77	Pass	
	12	0		20.61	-0.22	18.24	<=34.77	Pass		
		6		20.51	-0.22	18.14	<=34.77	Pass		

	710	25	13	20.54	-0.22	18.17	<=34.77	Pass
			0	20.65	-0.22	18.28	<=34.77	Pass
		1	0	21.12	-0.22	18.75	<=34.77	Pass
			13	21.15	-0.22	18.78	<=34.77	Pass
			24	21.03	-0.22	18.66	<=34.77	Pass
		12	0	20.55	-0.22	18.18	<=34.77	Pass
	6		20.76	-0.22	18.39	<=34.77	Pass	
	13		20.76	-0.22	18.39	<=34.77	Pass	
	25	0	20.68	-0.22	18.31	<=34.77	Pass	
	713.5	1	0	20.91	-0.22	18.54	<=34.77	Pass
			13	21.49	-0.22	19.12	<=34.77	Pass
			24	21.27	-0.22	18.90	<=34.77	Pass
		12	0	20.41	-0.22	18.04	<=34.77	Pass
			6	20.46	-0.22	18.09	<=34.77	Pass
			13	20.39	-0.22	18.02	<=34.77	Pass
		25	0	20.55	-0.22	18.18	<=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	23.72	-0.22	21.35	<=34.77	Pass	
			25	23.56	-0.22	21.19	<=34.77	Pass	
			49	23.42	-0.22	21.05	<=34.77	Pass	
		25	0	22.58	-0.22	20.21	<=34.77	Pass	
			13	22.55	-0.22	20.18	<=34.77	Pass	
			25	22.57	-0.22	20.20	<=34.77	Pass	
		50	0	22.55	-0.22	20.18	<=34.77	Pass	
		710	1	0	23.25	-0.22	20.88	<=34.77	Pass
				25	23.67	-0.22	21.30	<=34.77	Pass
	49			23.28	-0.22	20.91	<=34.77	Pass	
	25		0	22.47	-0.22	20.10	<=34.77	Pass	
			13	22.47	-0.22	20.10	<=34.77	Pass	
			25	22.37	-0.22	20.00	<=34.77	Pass	
	50		0	22.45	-0.22	20.08	<=34.77	Pass	
	711		1	0	23.51	-0.22	21.14	<=34.77	Pass
				25	23.75	-0.22	21.38	<=34.77	Pass
		49		23.28	-0.22	20.91	<=34.77	Pass	
		25	0	22.53	-0.22	20.16	<=34.77	Pass	
			13	22.50	-0.22	20.13	<=34.77	Pass	
			25	22.42	-0.22	20.05	<=34.77	Pass	
	50	0	22.44	-0.22	20.07	<=34.77	Pass		
	16QAM	709	1	0	22.93	-0.22	20.56	<=34.77	Pass
				25	22.91	-0.22	20.54	<=34.77	Pass
				49	22.86	-0.22	20.49	<=34.77	Pass
25			0	21.38	-0.22	19.01	<=34.77	Pass	
			13	21.59	-0.22	19.22	<=34.77	Pass	
			25	21.55	-0.22	19.18	<=34.77	Pass	
50		0	21.39	-0.22	19.02	<=34.77	Pass		
710		1	0	23.05	-0.22	20.68	<=34.77	Pass	
			25	23.01	-0.22	20.64	<=34.77	Pass	

64QAM	711	25	49	22.79	-0.22	20.42	<=34.77	Pass	
			0	21.70	-0.22	19.33	<=34.77	Pass	
			13	21.36	-0.22	18.99	<=34.77	Pass	
			25	21.50	-0.22	19.13	<=34.77	Pass	
		50	0	21.47	-0.22	19.10	<=34.77	Pass	
		1	0	22.60	-0.22	20.23	<=34.77	Pass	
			25	22.40	-0.22	20.03	<=34.77	Pass	
			49	22.14	-0.22	19.77	<=34.77	Pass	
			0	21.61	-0.22	19.24	<=34.77	Pass	
			13	21.60	-0.22	19.23	<=34.77	Pass	
			25	21.42	-0.22	19.05	<=34.77	Pass	
		50	0	21.40	-0.22	19.03	<=34.77	Pass	
	709	1	0	22.07	-0.22	19.70	<=34.77	Pass	
			25	22.10	-0.22	19.73	<=34.77	Pass	
			49	22.14	-0.22	19.77	<=34.77	Pass	
		25	0	20.53	-0.22	18.16	<=34.77	Pass	
			13	20.48	-0.22	18.11	<=34.77	Pass	
			25	20.44	-0.22	18.07	<=34.77	Pass	
		50	0	20.42	-0.22	18.05	<=34.77	Pass	
		710	1	0	21.54	-0.22	19.17	<=34.77	Pass
				25	21.39	-0.22	19.02	<=34.77	Pass
				49	21.22	-0.22	18.85	<=34.77	Pass
			25	0	20.53	-0.22	18.16	<=34.77	Pass
				13	20.51	-0.22	18.14	<=34.77	Pass
25	20.50			-0.22	18.13	<=34.77	Pass		
50	0	20.52	-0.22	18.15	<=34.77	Pass			
711	1	0	21.31	-0.22	18.94	<=34.77	Pass		
		25	21.32	-0.22	18.95	<=34.77	Pass		
		49	21.20	-0.22	18.83	<=34.77	Pass		
	25	0	20.65	-0.22	18.28	<=34.77	Pass		
		13	20.56	-0.22	18.19	<=34.77	Pass		
		25	20.37	-0.22	18.00	<=34.77	Pass		
	50	0	20.52	-0.22	18.15	<=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 (VAC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	706.5	25	0	20	102	0.242	0.0003	-2.5 to 2.5	Pass	
					120	0.008	0.0000	-2.5 to 2.5	Pass	
					138	0.386	0.0005	-2.5 to 2.5	Pass	
				-30	120	-0.515	-0.0007	-2.5 to 2.5	Pass	
					-20	120	-1.019	-0.0014	-2.5 to 2.5	Pass
					-10	120	0.301	0.0004	-2.5 to 2.5	Pass
				0	120	-1.166	-0.0017	-2.5 to 2.5	Pass	
					10	120	-0.865	-0.0012	-2.5 to 2.5	Pass
					30	120	-0.058	-0.0001	-2.5 to 2.5	Pass
				40	120	-0.629	-0.0009	-2.5 to 2.5	Pass	
				50	120	0.045	0.0001	-2.5 to 2.5	Pass	

	710	25	0	20	102	1.211	0.0017	-2.5 to 2.5	Pass						
					120	0.490	0.0007	-2.5 to 2.5	Pass						
					138	0.273	0.0004	-2.5 to 2.5	Pass						
				-30	120	1.125	0.0016	-2.5 to 2.5	Pass						
										-20	120	1.387	0.0020	-2.5 to 2.5	Pass
											-10	120	1.463	0.0021	-2.5 to 2.5
				0	120	0.716	0.0010	-2.5 to 2.5	Pass						
				10	120	1.088	0.0015	-2.5 to 2.5	Pass						
				30	120	1.154	0.0016	-2.5 to 2.5	Pass						
	40	120	0.905	0.0013	-2.5 to 2.5	Pass									
	50	120	0.526	0.0007	-2.5 to 2.5	Pass									
	713.5	25	0	20	102	1.261	0.0018	-2.5 to 2.5	Pass						
					120	0.851	0.0012	-2.5 to 2.5	Pass						
					138	0.326	0.0005	-2.5 to 2.5	Pass						
				-30	120	-0.511	-0.0007	-2.5 to 2.5	Pass						
										-20	120	0.478	0.0007	-2.5 to 2.5	Pass
											-10	120	0.166	0.0002	-2.5 to 2.5
				0	120	0.840	0.0012	-2.5 to 2.5	Pass						
				10	120	0.570	0.0008	-2.5 to 2.5	Pass						
30				120	-0.610	-0.0009	-2.5 to 2.5	Pass							
40				120	-0.081	-0.0001	-2.5 to 2.5	Pass							
50	120	0.587	0.0008	-2.5 to 2.5	Pass										
16QAM	706.5	25	0	20	102	-0.132	-0.0002	-2.5 to 2.5	Pass						
					120	-0.196	-0.0003	-2.5 to 2.5	Pass						
					138	0.076	0.0001	-2.5 to 2.5	Pass						
				-30	120	0.071	0.0001	-2.5 to 2.5	Pass						
										-20	120	-0.359	-0.0005	-2.5 to 2.5	Pass
											-10	120	-0.759	-0.0011	-2.5 to 2.5
				0	120	-0.354	-0.0005	-2.5 to 2.5	Pass						
				10	120	-0.092	-0.0001	-2.5 to 2.5	Pass						
				30	120	-0.852	-0.0012	-2.5 to 2.5	Pass						
				40	120	-0.611	-0.0009	-2.5 to 2.5	Pass						
	50	120	-0.946	-0.0013	-2.5 to 2.5	Pass									
	710	25	0	20	102	0.980	0.0014	-2.5 to 2.5	Pass						
					120	1.900	0.0027	-2.5 to 2.5	Pass						
					138	0.514	0.0007	-2.5 to 2.5	Pass						
				-30	120	0.775	0.0011	-2.5 to 2.5	Pass						
										-20	120	1.411	0.0020	-2.5 to 2.5	Pass
											-10	120	1.309	0.0018	-2.5 to 2.5
				0	120	1.110	0.0016	-2.5 to 2.5	Pass						
				10	120	1.409	0.0020	-2.5 to 2.5	Pass						
				30	120	1.240	0.0017	-2.5 to 2.5	Pass						
				40	120	0.278	0.0004	-2.5 to 2.5	Pass						
	50	120	1.354	0.0019	-2.5 to 2.5	Pass									
	713.5	25	0	20	102	0.838	0.0012	-2.5 to 2.5	Pass						
					120	0.309	0.0004	-2.5 to 2.5	Pass						
					138	0.211	0.0003	-2.5 to 2.5	Pass						
				-30	120	0.199	0.0003	-2.5 to 2.5	Pass						
										-20	120	1.215	0.0017	-2.5 to 2.5	Pass
-10											120	-0.083	-0.0001	-2.5 to 2.5	Pass
0				120	0.626	0.0009	-2.5 to 2.5	Pass							
10				120	-0.563	-0.0008	-2.5 to 2.5	Pass							
30				120	-0.027	0.0000	-2.5 to 2.5	Pass							
40				120	-0.593	-0.0008	-2.5 to 2.5	Pass							
50	120	0.266	0.0004	-2.5 to 2.5	Pass										
64QAM	706.5	25	0	20	102	-0.517	-0.0007	-2.5 to 2.5	Pass						
					120	-0.734	-0.0010	-2.5 to 2.5	Pass						
					138	0.468	0.0007	-2.5 to 2.5	Pass						

				-30	120	-1.205	-0.0017	-2.5 to 2.5	Pass
				-20	120	-0.770	-0.0011	-2.5 to 2.5	Pass
				-10	120	-0.648	-0.0009	-2.5 to 2.5	Pass
				0	120	-0.345	-0.0005	-2.5 to 2.5	Pass
				10	120	-0.116	-0.0002	-2.5 to 2.5	Pass
				30	120	-1.345	-0.0019	-2.5 to 2.5	Pass
				40	120	-0.516	-0.0007	-2.5 to 2.5	Pass
				50	120	-0.637	-0.0009	-2.5 to 2.5	Pass
	710	25	0	20	102	0.657	0.0009	-2.5 to 2.5	Pass
					120	1.282	0.0018	-2.5 to 2.5	Pass
					138	1.499	0.0021	-2.5 to 2.5	Pass
				-30	120	1.731	0.0024	-2.5 to 2.5	Pass
				-20	120	1.504	0.0021	-2.5 to 2.5	Pass
				-10	120	1.840	0.0026	-2.5 to 2.5	Pass
				0	120	2.387	0.0034	-2.5 to 2.5	Pass
				10	120	3.331	0.0047	-2.5 to 2.5	Pass
				30	120	2.819	0.0040	-2.5 to 2.5	Pass
				40	120	2.806	0.0040	-2.5 to 2.5	Pass
				50	120	2.603	0.0037	-2.5 to 2.5	Pass
				713.5	25	0	20	102	1.112
	120	0.711	0.0010					-2.5 to 2.5	Pass
	138	0.418	0.0006					-2.5 to 2.5	Pass
	-30	120	1.053				0.0015	-2.5 to 2.5	Pass
	-20	120	0.781				0.0011	-2.5 to 2.5	Pass
	-10	120	1.319				0.0018	-2.5 to 2.5	Pass
	0	120	0.502				0.0007	-2.5 to 2.5	Pass
	10	120	1.441				0.0020	-2.5 to 2.5	Pass
	30	120	1.973				0.0028	-2.5 to 2.5	Pass
	40	120	2.200				0.0031	-2.5 to 2.5	Pass
	50	120	1.539	0.0022	-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 (VAC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	709	50	0	20	102	0.780	0.0011	-2.5 to 2.5	Pass
					120	0.376	0.0005	-2.5 to 2.5	Pass
					138	0.729	0.0010	-2.5 to 2.5	Pass
				-30	120	0.840	0.0012	-2.5 to 2.5	Pass
				-20	120	0.811	0.0011	-2.5 to 2.5	Pass
				-10	120	1.060	0.0015	-2.5 to 2.5	Pass
				0	120	0.589	0.0008	-2.5 to 2.5	Pass
				10	120	0.604	0.0009	-2.5 to 2.5	Pass
				30	120	0.201	0.0003	-2.5 to 2.5	Pass
				40	120	0.248	0.0003	-2.5 to 2.5	Pass
	50	120	-0.431	-0.0006	-2.5 to 2.5	Pass			
	710	50	0	20	102	1.153	0.0016	-2.5 to 2.5	Pass
					120	0.895	0.0013	-2.5 to 2.5	Pass
					138	0.623	0.0009	-2.5 to 2.5	Pass
-30				120	0.924	0.0013	-2.5 to 2.5	Pass	
-20				120	1.113	0.0016	-2.5 to 2.5	Pass	
-10	120	1.533	0.0022	-2.5 to 2.5	Pass				

				0	120	1.291	0.0018	-2.5 to 2.5	Pass			
				10	120	1.576	0.0022	-2.5 to 2.5	Pass			
				30	120	0.724	0.0010	-2.5 to 2.5	Pass			
				40	120	1.173	0.0017	-2.5 to 2.5	Pass			
				50	120	0.416	0.0006	-2.5 to 2.5	Pass			
	711	50	0	20	102	-0.513	-0.0007	-2.5 to 2.5	Pass			
					120	0.029	0.0000	-2.5 to 2.5	Pass			
					138	-0.478	-0.0007	-2.5 to 2.5	Pass			
				-30	120	-0.497	-0.0007	-2.5 to 2.5	Pass			
				-20	120	-0.971	-0.0014	-2.5 to 2.5	Pass			
				-10	120	-0.863	-0.0012	-2.5 to 2.5	Pass			
				0	120	-0.252	-0.0004	-2.5 to 2.5	Pass			
				10	120	-0.240	-0.0003	-2.5 to 2.5	Pass			
				30	120	-0.825	-0.0012	-2.5 to 2.5	Pass			
				40	120	-0.732	-0.0010	-2.5 to 2.5	Pass			
50	120	-0.817	-0.0011	-2.5 to 2.5	Pass							
16QAM	709	50	0	20	102	0.124	0.0002	-2.5 to 2.5	Pass			
					120	0.823	0.0012	-2.5 to 2.5	Pass			
					138	0.532	0.0008	-2.5 to 2.5	Pass			
				-30	120	0.373	0.0005	-2.5 to 2.5	Pass			
				-20	120	-0.440	-0.0006	-2.5 to 2.5	Pass			
				-10	120	0.423	0.0006	-2.5 to 2.5	Pass			
				0	120	1.375	0.0019	-2.5 to 2.5	Pass			
				10	120	0.782	0.0011	-2.5 to 2.5	Pass			
				30	120	0.787	0.0011	-2.5 to 2.5	Pass			
				40	120	0.656	0.0009	-2.5 to 2.5	Pass			
	50	120	-0.509	-0.0007	-2.5 to 2.5	Pass						
	710	50	0	20	102	1.218	0.0017	-2.5 to 2.5	Pass			
					120	0.206	0.0003	-2.5 to 2.5	Pass			
					138	0.895	0.0013	-2.5 to 2.5	Pass			
				-30	120	0.881	0.0012	-2.5 to 2.5	Pass			
				-20	120	0.594	0.0008	-2.5 to 2.5	Pass			
				-10	120	0.477	0.0007	-2.5 to 2.5	Pass			
				0	120	0.504	0.0007	-2.5 to 2.5	Pass			
				10	120	1.281	0.0018	-2.5 to 2.5	Pass			
				30	120	0.159	0.0002	-2.5 to 2.5	Pass			
				40	120	1.509	0.0021	-2.5 to 2.5	Pass			
				50	120	0.150	0.0002	-2.5 to 2.5	Pass			
				711	50	0	20	102	-1.010	-0.0014	-2.5 to 2.5	Pass
								120	-1.655	-0.0023	-2.5 to 2.5	Pass
								138	-0.392	-0.0006	-2.5 to 2.5	Pass
-30							120	-0.793	-0.0011	-2.5 to 2.5	Pass	
-20	120	-0.174	-0.0002				-2.5 to 2.5	Pass				
-10	120	-1.107	-0.0016				-2.5 to 2.5	Pass				
0	120	-0.957	-0.0013				-2.5 to 2.5	Pass				
10	120	-1.274	-0.0018				-2.5 to 2.5	Pass				
30	120	-1.917	-0.0027				-2.5 to 2.5	Pass				
40	120	-1.234	-0.0017				-2.5 to 2.5	Pass				
50	120	-0.403	-0.0006				-2.5 to 2.5	Pass				
64QAM	709	50	0				20	102	-0.468	-0.0007	-2.5 to 2.5	Pass
				120	0.251	0.0004		-2.5 to 2.5	Pass			
				138	-0.046	-0.0001		-2.5 to 2.5	Pass			
				-30	120	0.076	0.0001	-2.5 to 2.5	Pass			
				-20	120	0.089	0.0001	-2.5 to 2.5	Pass			
				-10	120	0.180	0.0003	-2.5 to 2.5	Pass			
				0	120	1.124	0.0016	-2.5 to 2.5	Pass			
				10	120	0.677	0.0010	-2.5 to 2.5	Pass			
				30	120	-0.026	0.0000	-2.5 to 2.5	Pass			

	710	50	0	40	120	0.875	0.0012	-2.5 to 2.5	Pass
				50	120	0.134	0.0002	-2.5 to 2.5	Pass
				20	102	1.299	0.0018	-2.5 to 2.5	Pass
					120	0.432	0.0006	-2.5 to 2.5	Pass
					138	0.327	0.0005	-2.5 to 2.5	Pass
				-30	120	1.028	0.0014	-2.5 to 2.5	Pass
				-20	120	0.632	0.0009	-2.5 to 2.5	Pass
				-10	120	0.235	0.0003	-2.5 to 2.5	Pass
				0	120	0.687	0.0010	-2.5 to 2.5	Pass
				10	120	-0.050	-0.0001	-2.5 to 2.5	Pass
	30	120	0.371	0.0005	-2.5 to 2.5	Pass			
	40	120	0.338	0.0005	-2.5 to 2.5	Pass			
	50	120	-0.182	-0.0003	-2.5 to 2.5	Pass			
	711	50	0	20	102	-1.429	-0.0020	-2.5 to 2.5	Pass
					120	-0.270	-0.0004	-2.5 to 2.5	Pass
					138	-1.775	-0.0025	-2.5 to 2.5	Pass
				-30	120	-1.554	-0.0022	-2.5 to 2.5	Pass
				-20	120	0.069	0.0001	-2.5 to 2.5	Pass
				-10	120	-0.220	-0.0003	-2.5 to 2.5	Pass
				0	120	0.021	0.0000	-2.5 to 2.5	Pass
10				120	-0.572	-0.0008	-2.5 to 2.5	Pass	
30				120	-1.236	-0.0017	-2.5 to 2.5	Pass	
40				120	-1.361	-0.0019	-2.5 to 2.5	Pass	
50	120	-0.876	-0.0012	-2.5 to 2.5	Pass				

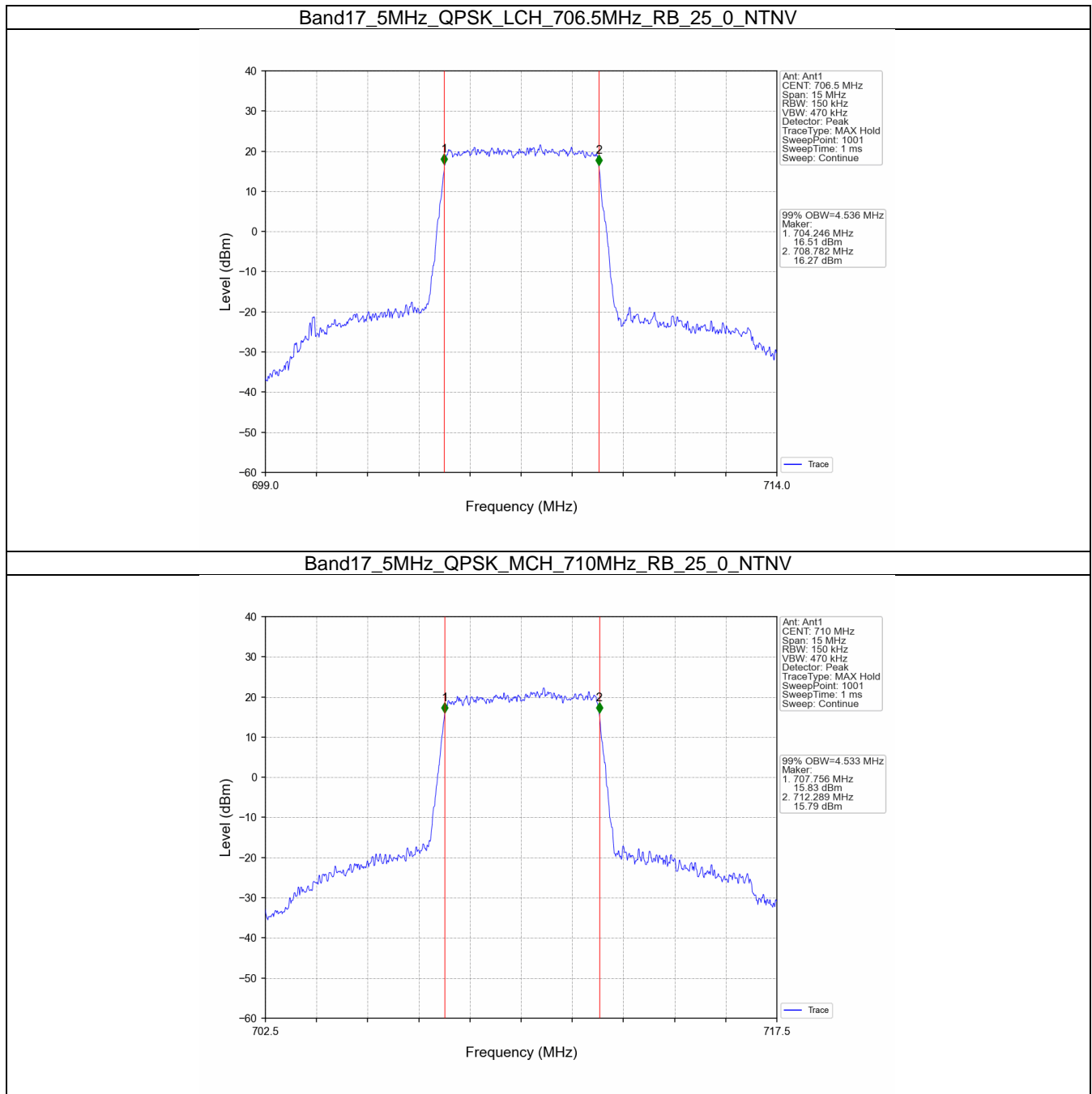
3. 99% & 26dB Bandwidth

3.1 Band17_OBW

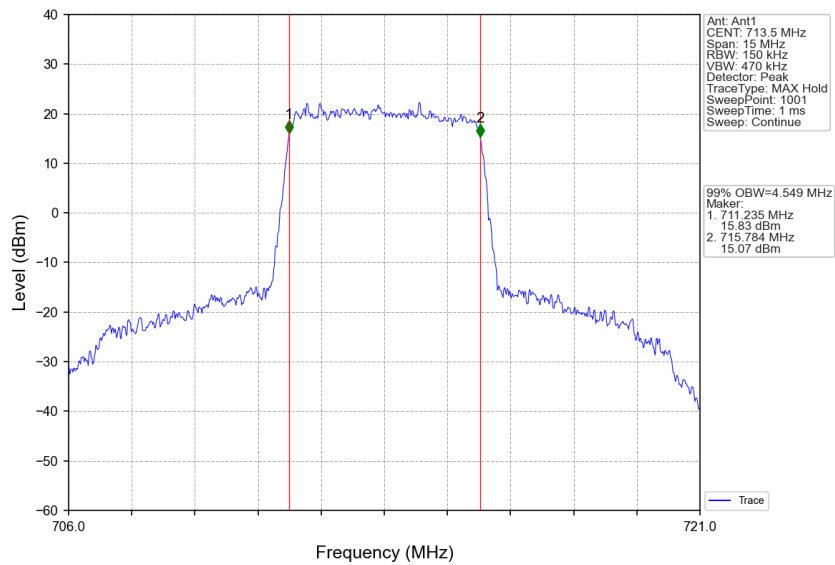
3.1.1 Test Result

Band: 17 / NTV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	4.536	/	Pass
		710	25	0	4.533	/	Pass
		713.5	25	0	4.549	/	Pass
	16QAM	706.5	25	0	4.560	/	Pass
		710	25	0	4.533	/	Pass
		713.5	25	0	4.527	/	Pass
	64QAM	706.5	25	0	4.546	/	Pass
		710	25	0	4.539	/	Pass
		713.5	25	0	4.535	/	Pass
10	QPSK	709	50	0	9.033	/	Pass
		710	50	0	8.988	/	Pass
		711	50	0	9.018	/	Pass
	16QAM	709	50	0	9.057	/	Pass
		710	50	0	8.995	/	Pass
		711	50	0	8.990	/	Pass
	64QAM	709	50	0	8.999	/	Pass
		710	50	0	9.001	/	Pass
		711	50	0	8.998	/	Pass

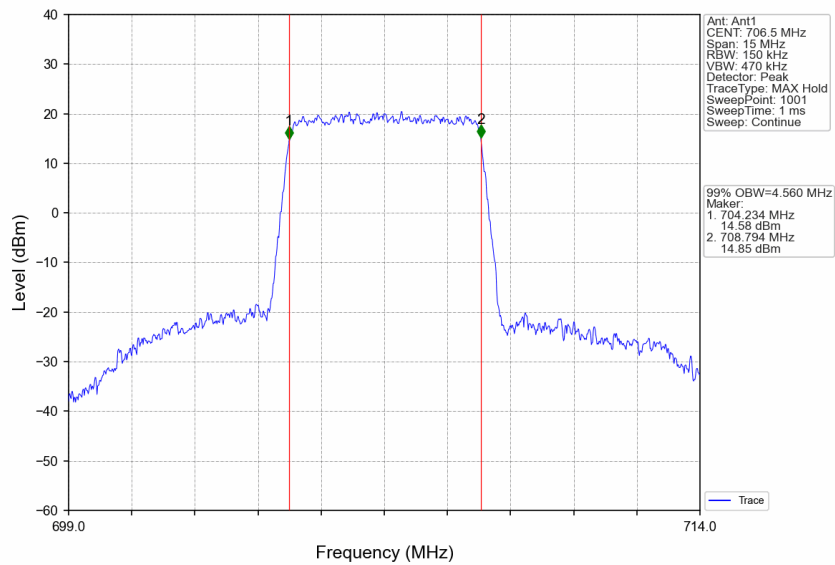
3.1.2 Test Graph



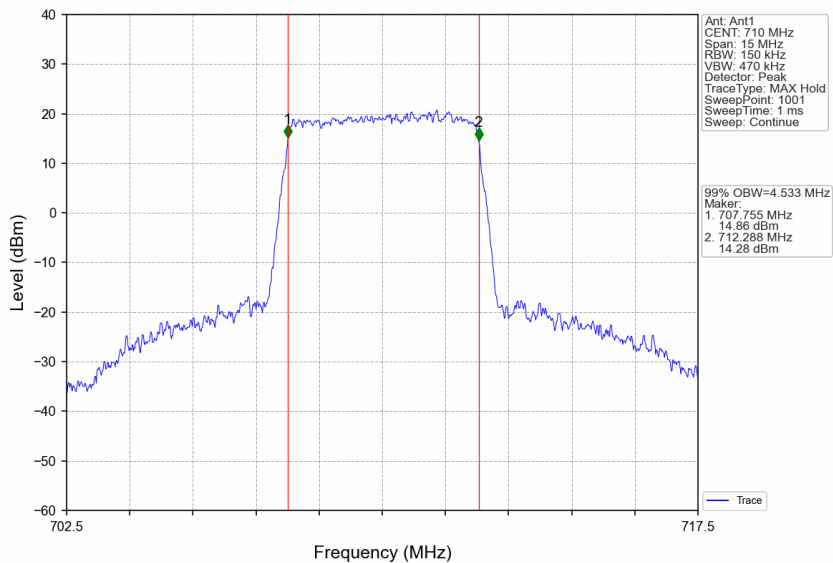
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



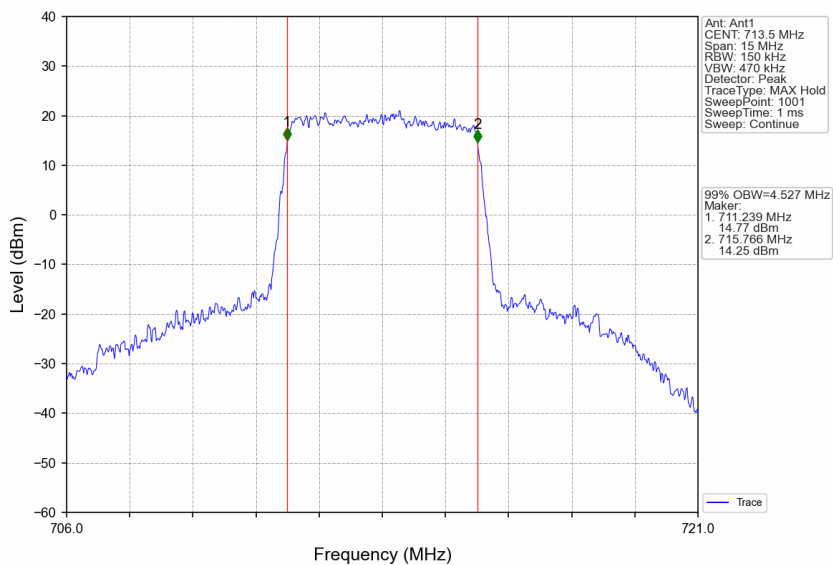
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



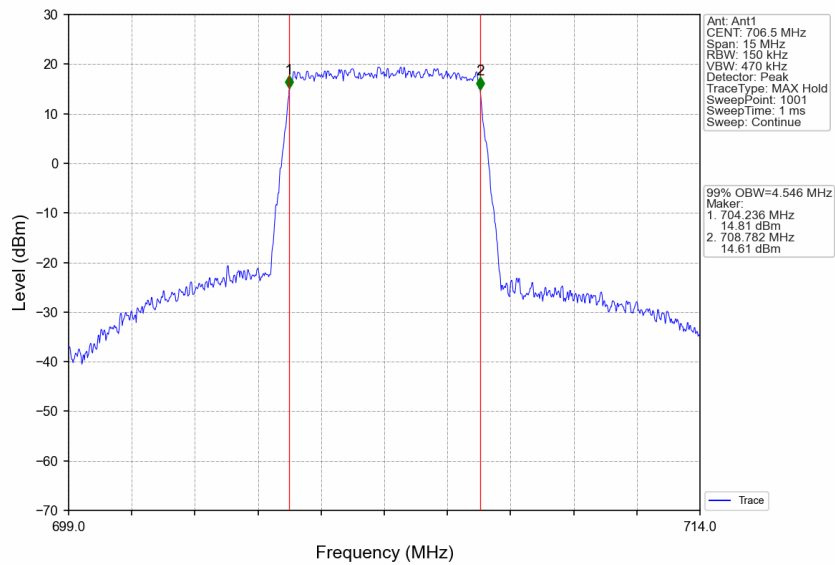
Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



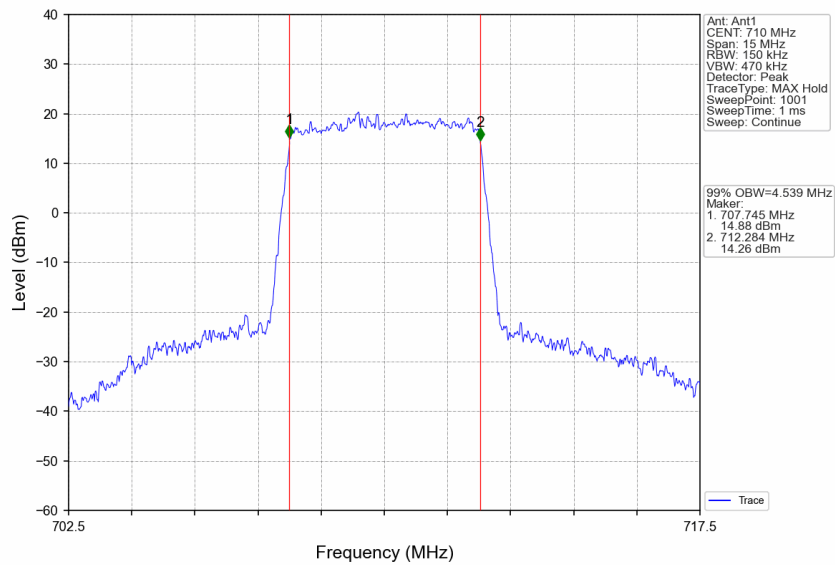
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



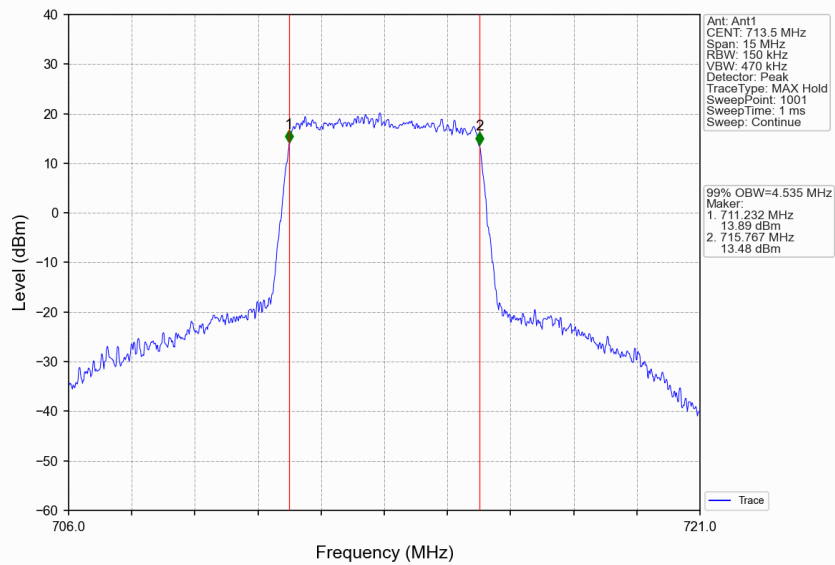
Band17_5MHz_64QAM_LCH_706.5MHz_RB_25_0_NTNV



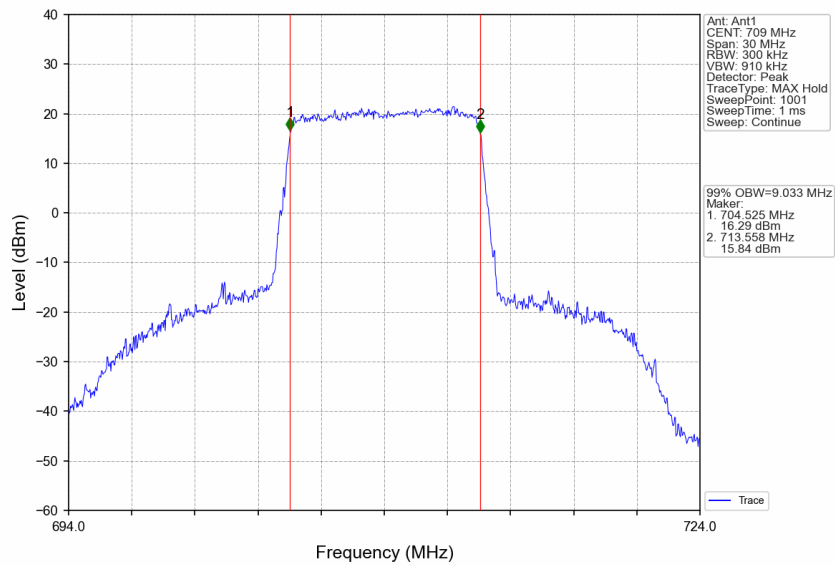
Band17_5MHz_64QAM_MCH_710MHz_RB_25_0_NTNV



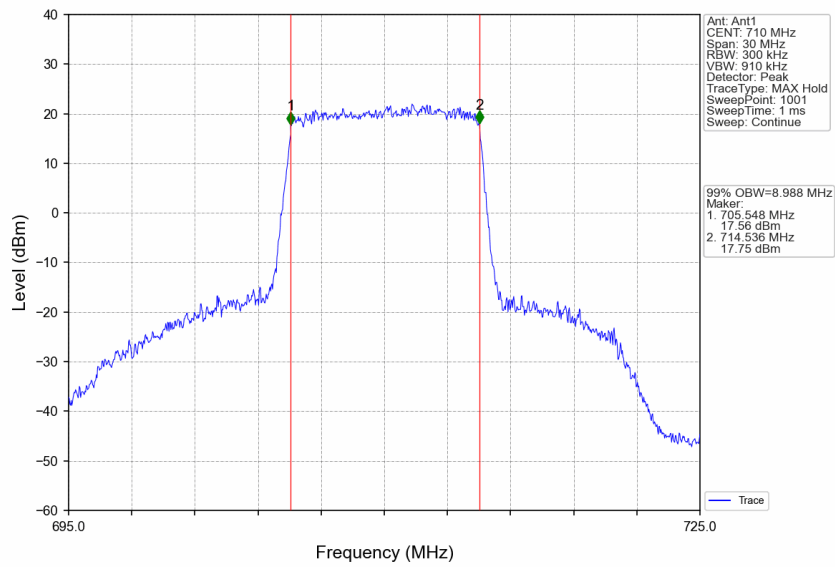
Band17_5MHz_64QAM_HCH_713.5MHz_RB_25_0_NTNV



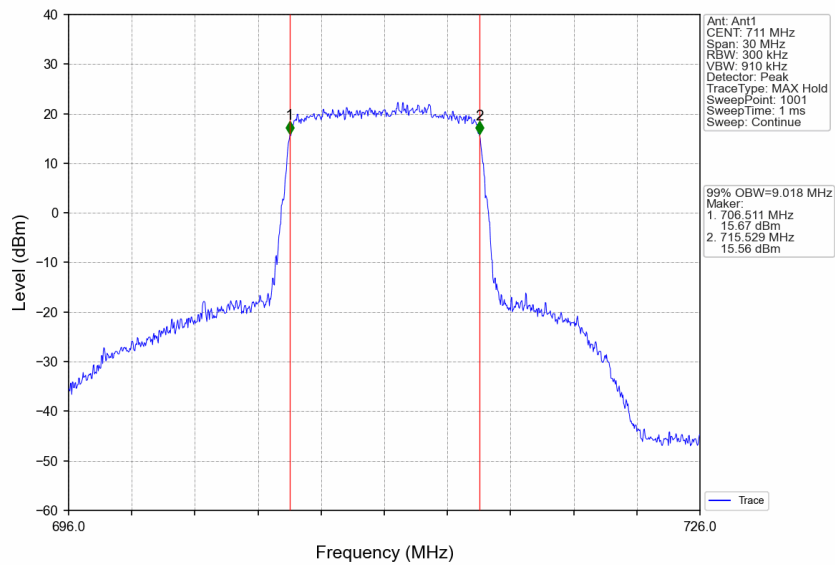
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



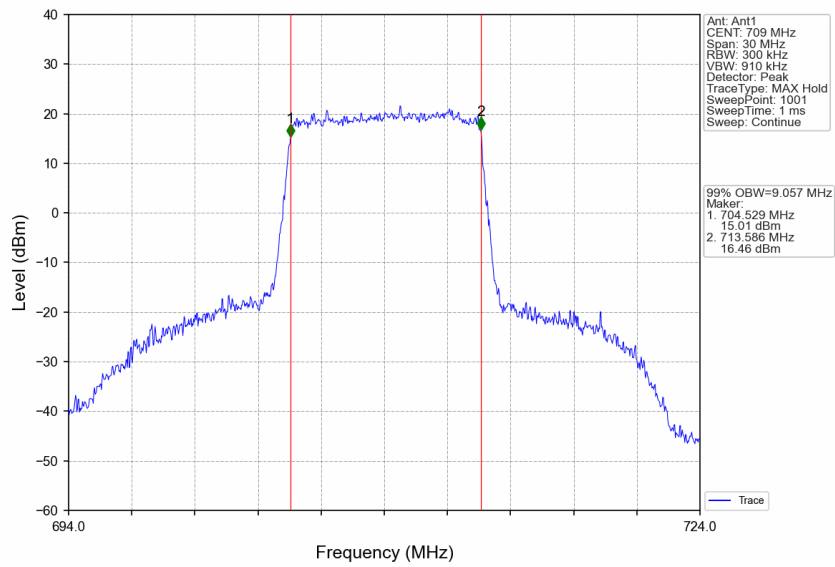
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



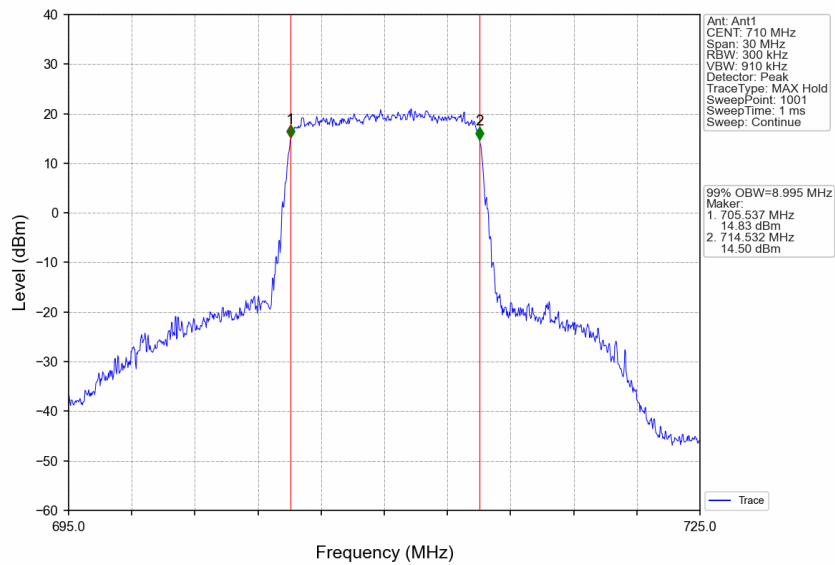
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



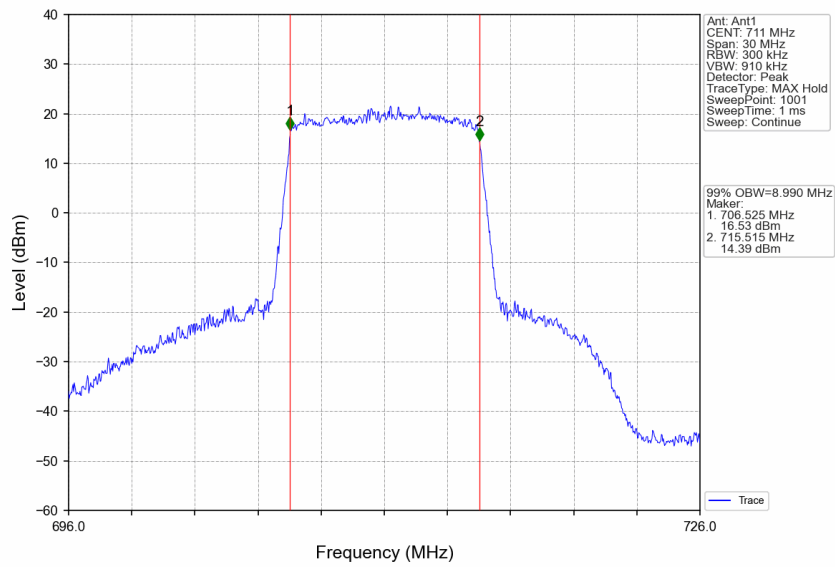
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



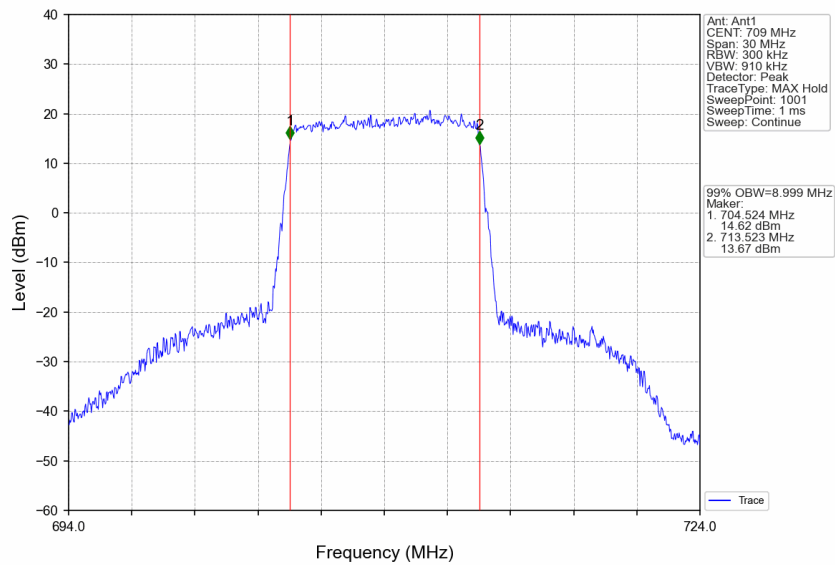
Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



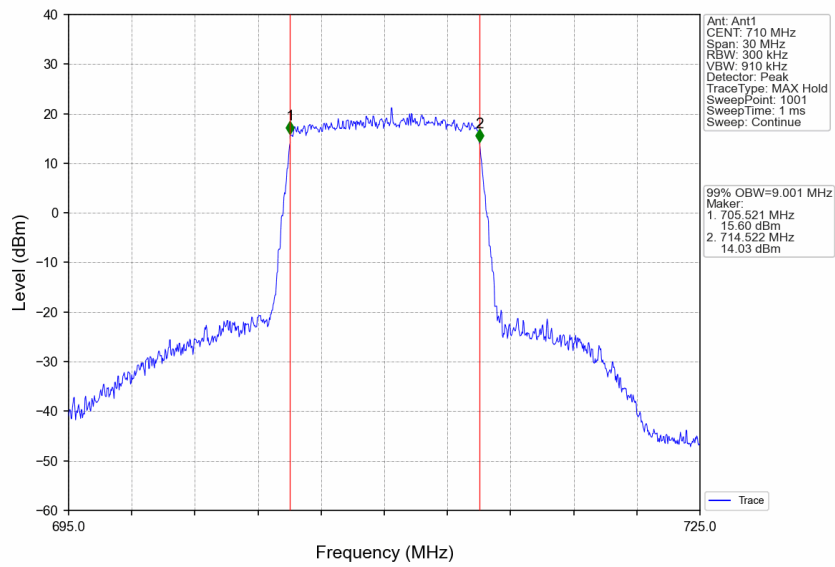
Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



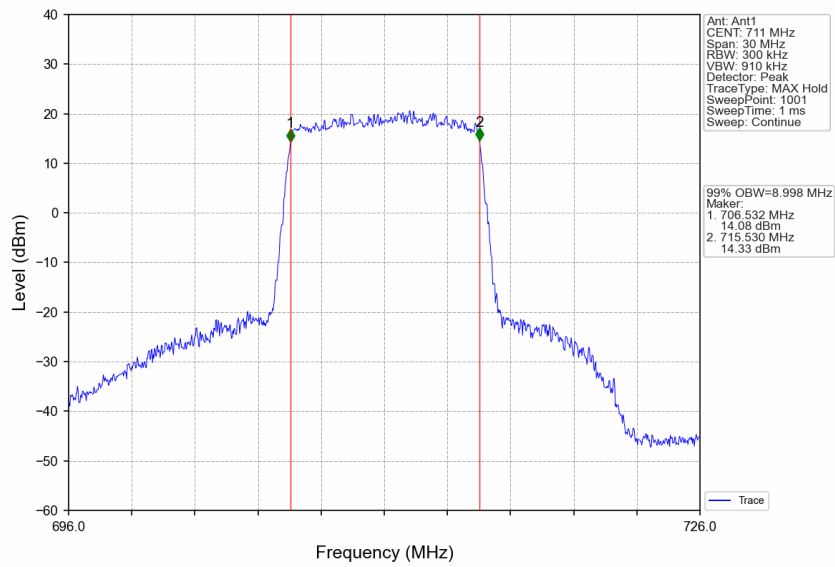
Band17_10MHz_64QAM_LCH_709MHz_RB_50_0_NTNV



Band17_10MHz_64QAM_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_64QAM_HCH_711MHz_RB_50_0_NTNV

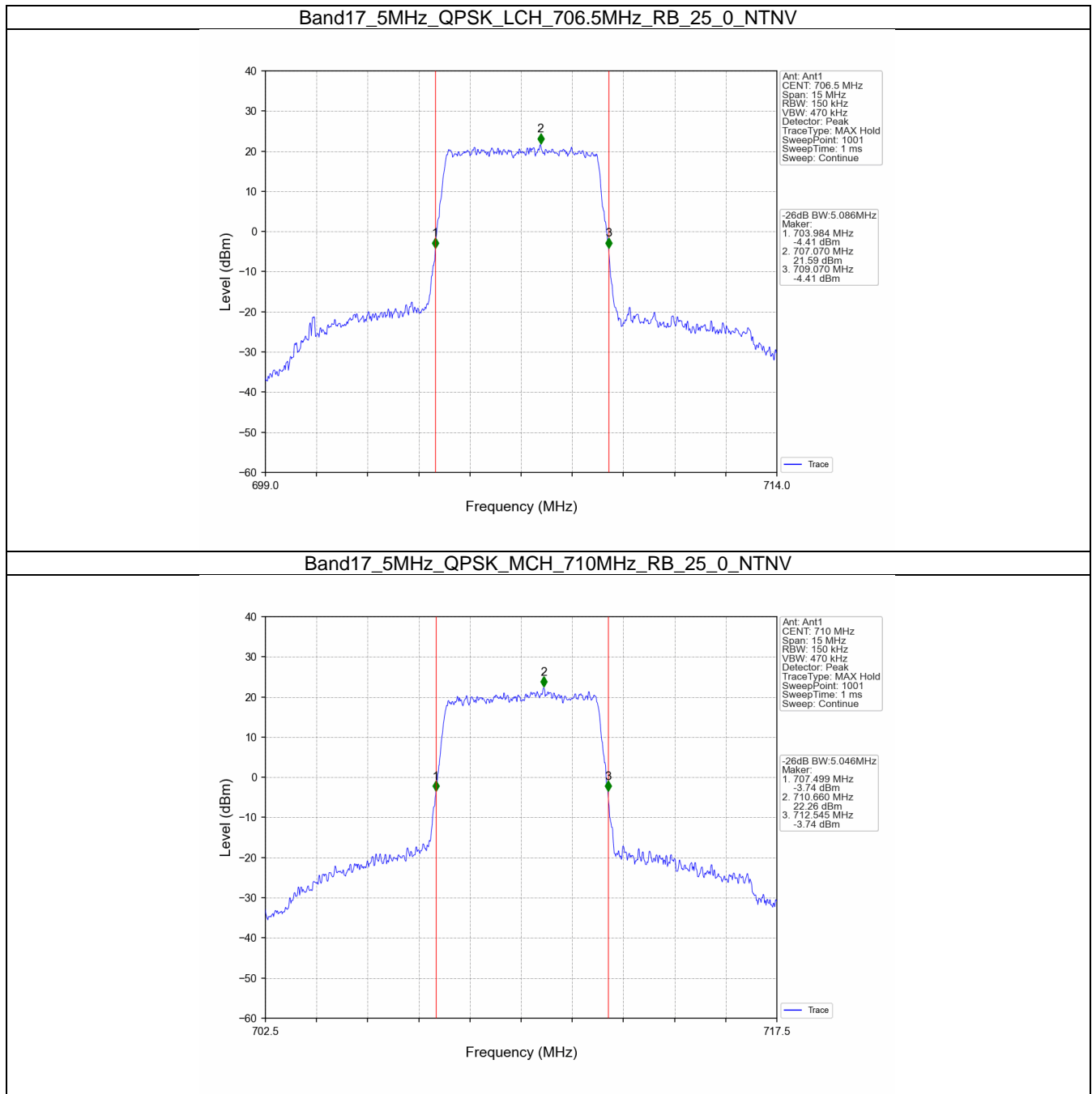


3.2 Band17_XDB

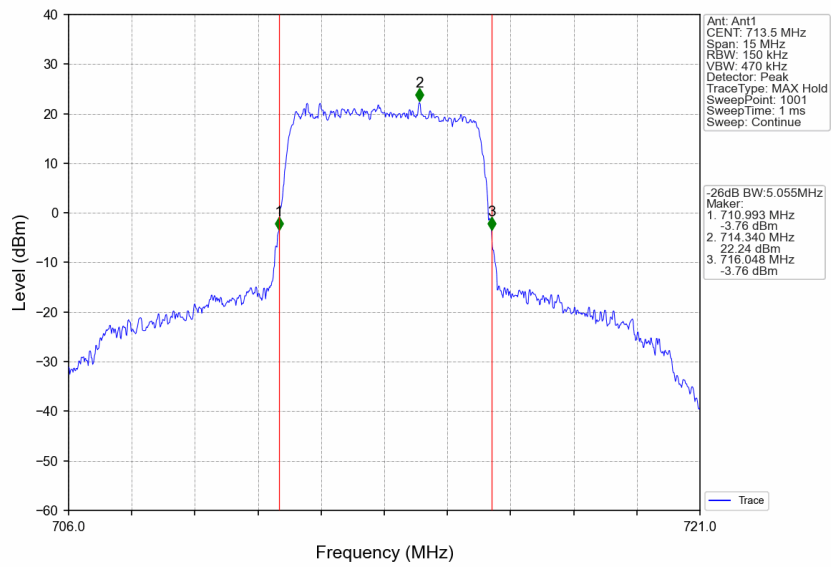
3.2.1 Test Result

Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	5.086	/	Pass
		710	25	0	5.046	/	Pass
		713.5	25	0	5.055	/	Pass
	16QAM	706.5	25	0	5.107	/	Pass
		710	25	0	5.085	/	Pass
		713.5	25	0	5.026	/	Pass
	64QAM	706.5	25	0	5.078	/	Pass
		710	25	0	5.025	/	Pass
		713.5	25	0	5.054	/	Pass
10	QPSK	709	50	0	10.131	/	Pass
		710	50	0	9.969	/	Pass
		711	50	0	10.005	/	Pass
	16QAM	709	50	0	10.028	/	Pass
		710	50	0	9.967	/	Pass
		711	50	0	9.991	/	Pass
	64QAM	709	50	0	10.036	/	Pass
		710	50	0	9.902	/	Pass
		711	50	0	9.970	/	Pass

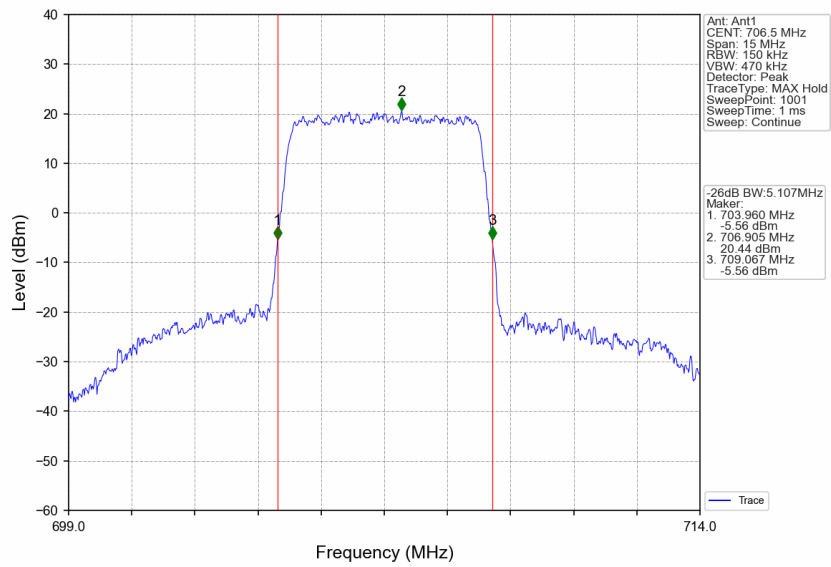
3.2.2 Test Graph



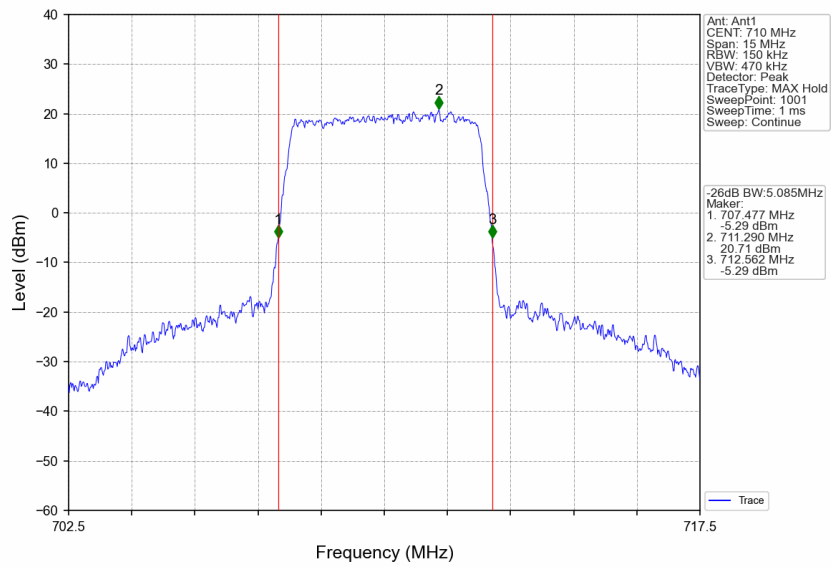
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



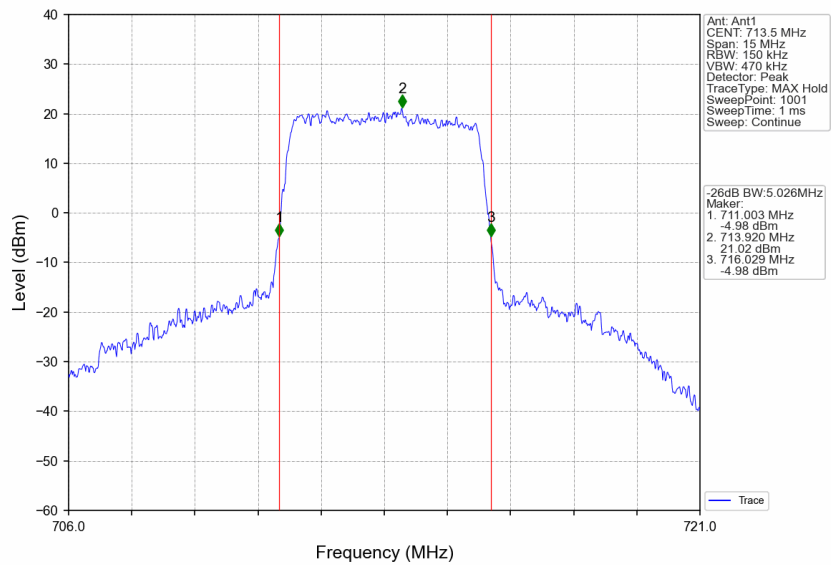
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



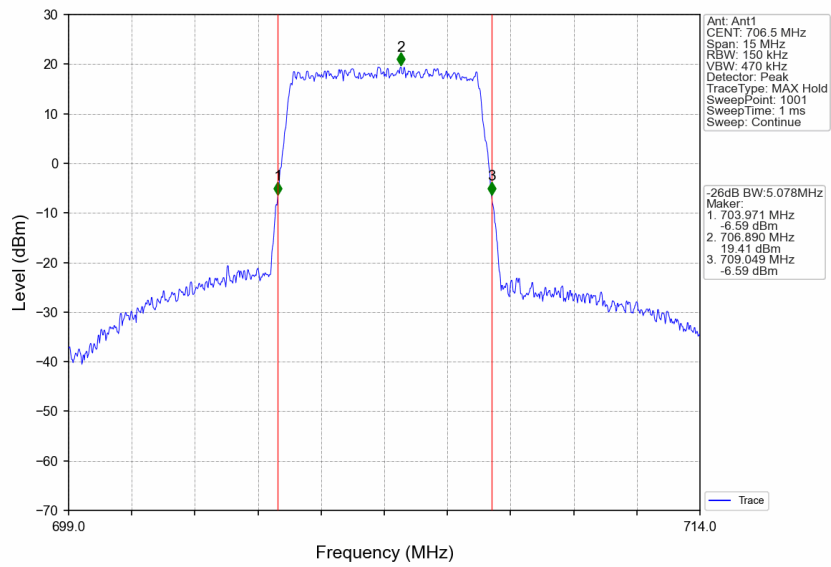
Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



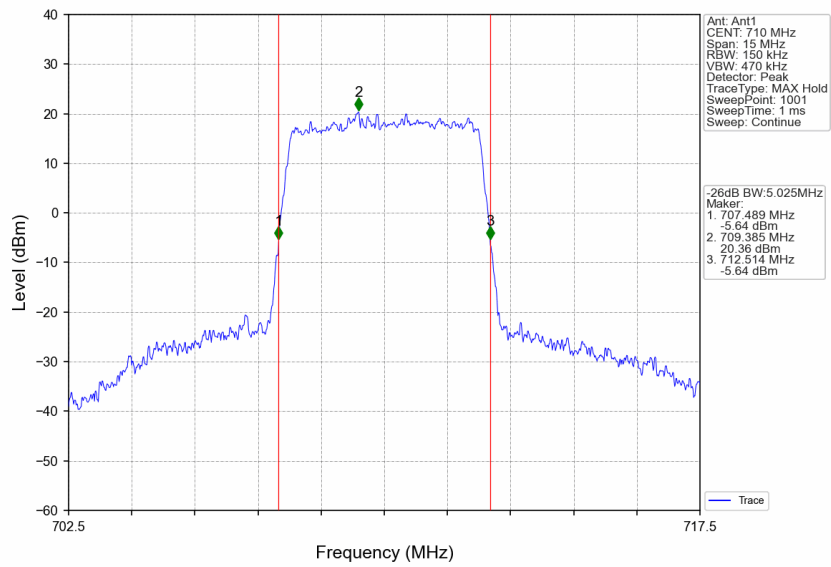
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



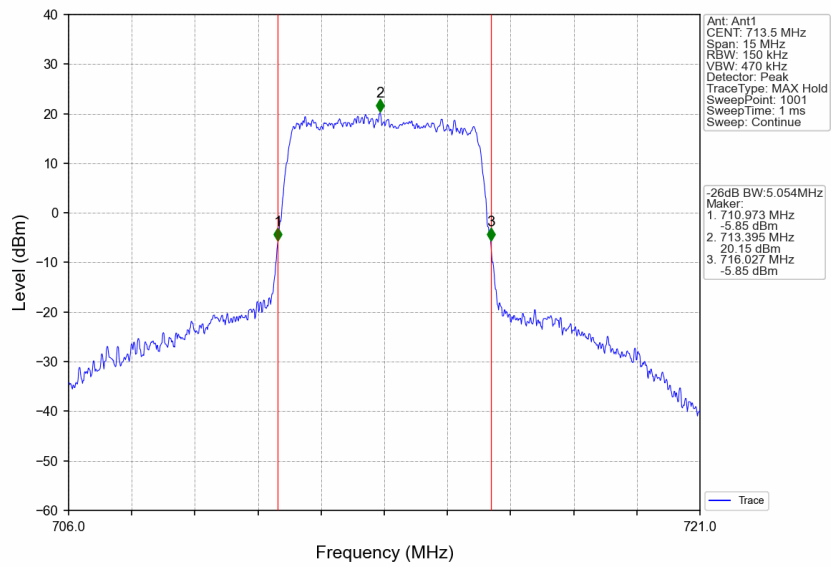
Band17_5MHz_64QAM_LCH_706.5MHz_RB_25_0_NTNV



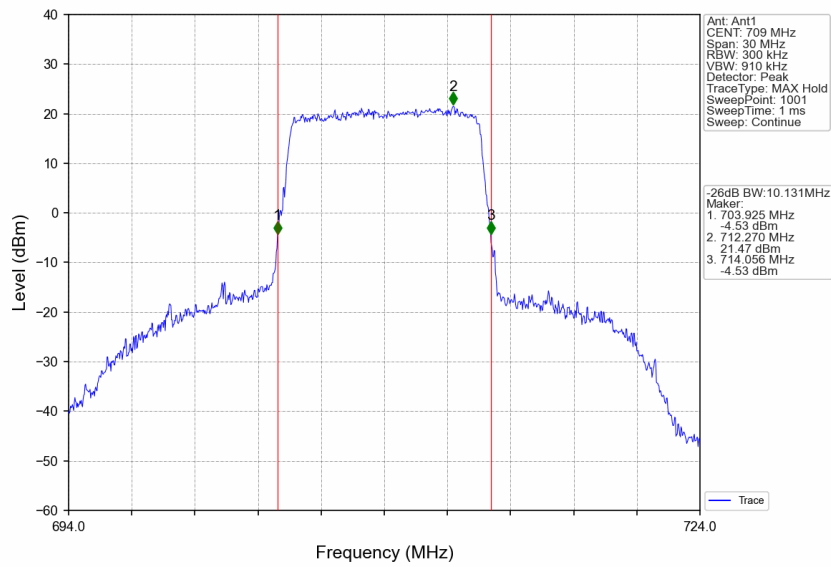
Band17_5MHz_64QAM_MCH_710MHz_RB_25_0_NTNV



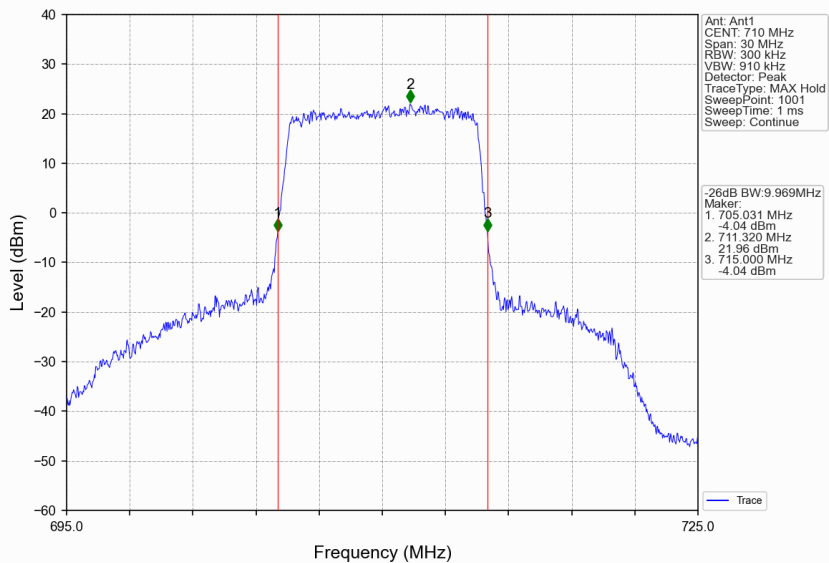
Band17_5MHz_64QAM_HCH_713.5MHz_RB_25_0_NTNV



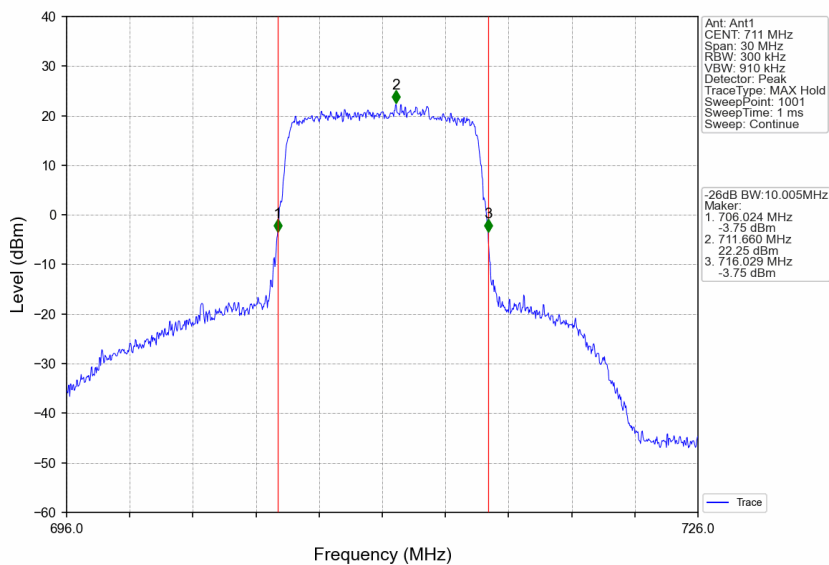
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



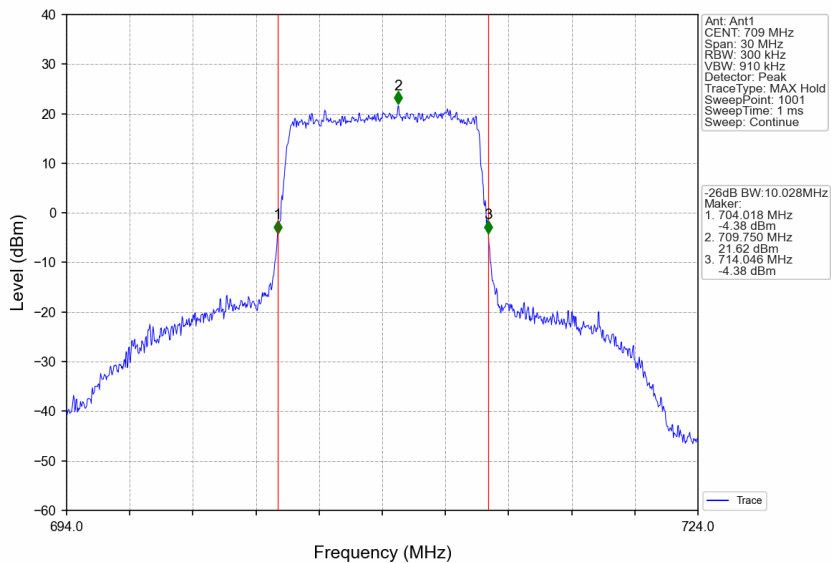
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



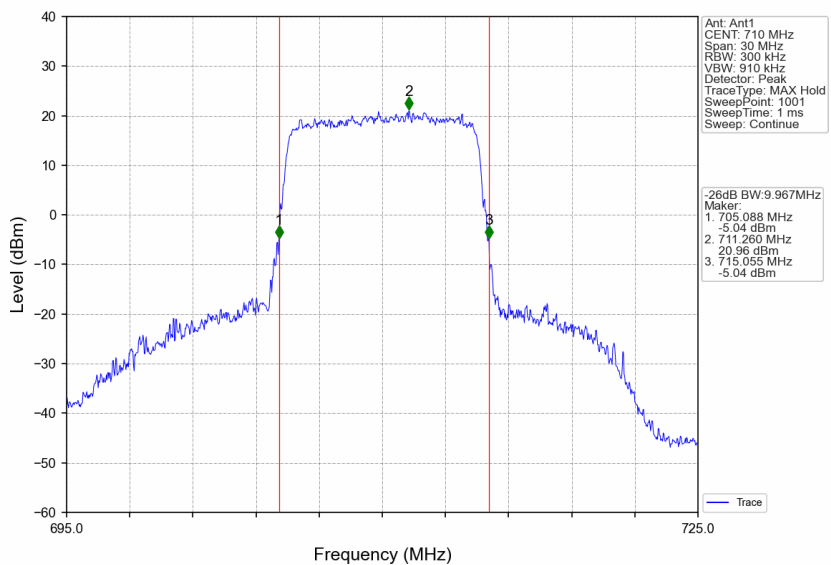
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



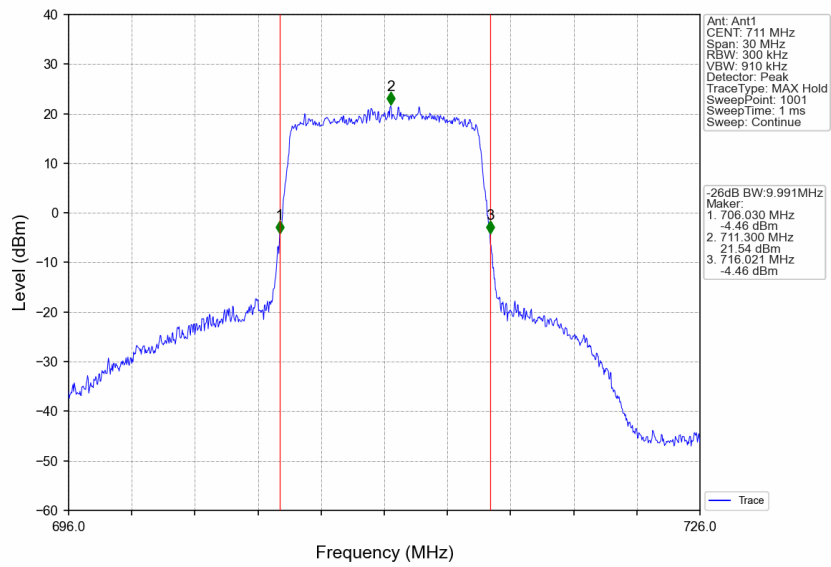
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



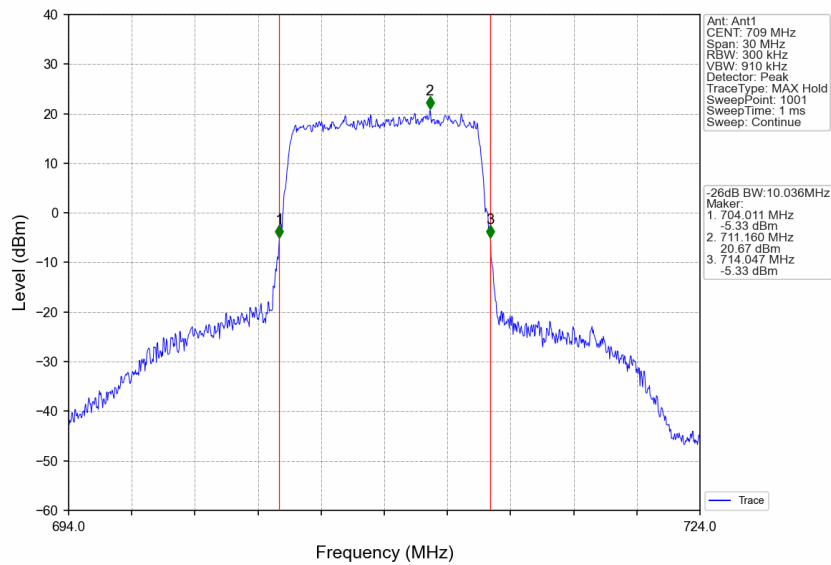
Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



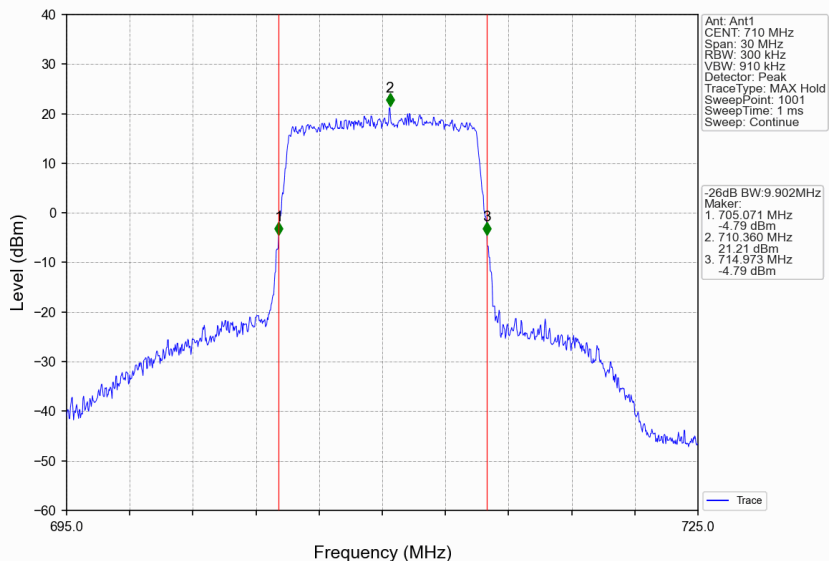
Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



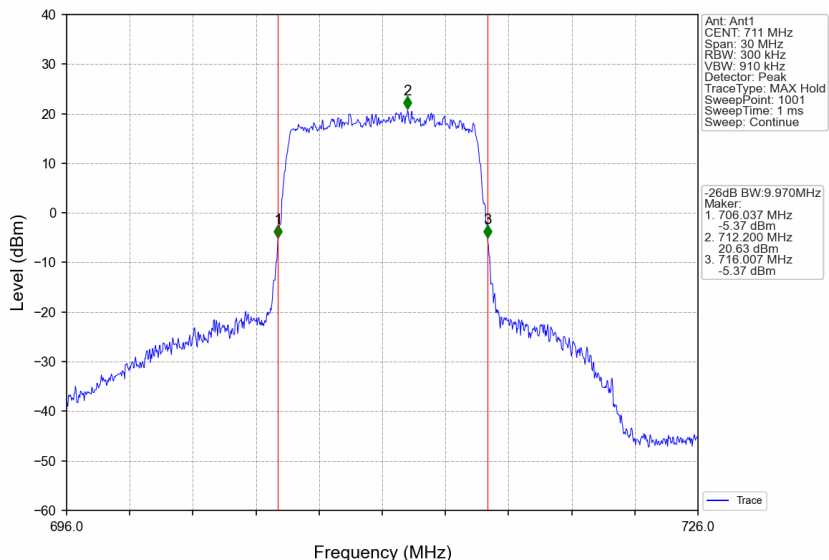
Band17_10MHz_64QAM_LCH_709MHz_RB_50_0_NTNV



Band17_10MHz_64QAM_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_64QAM_HCH_711MHz_RB_50_0_NTNV



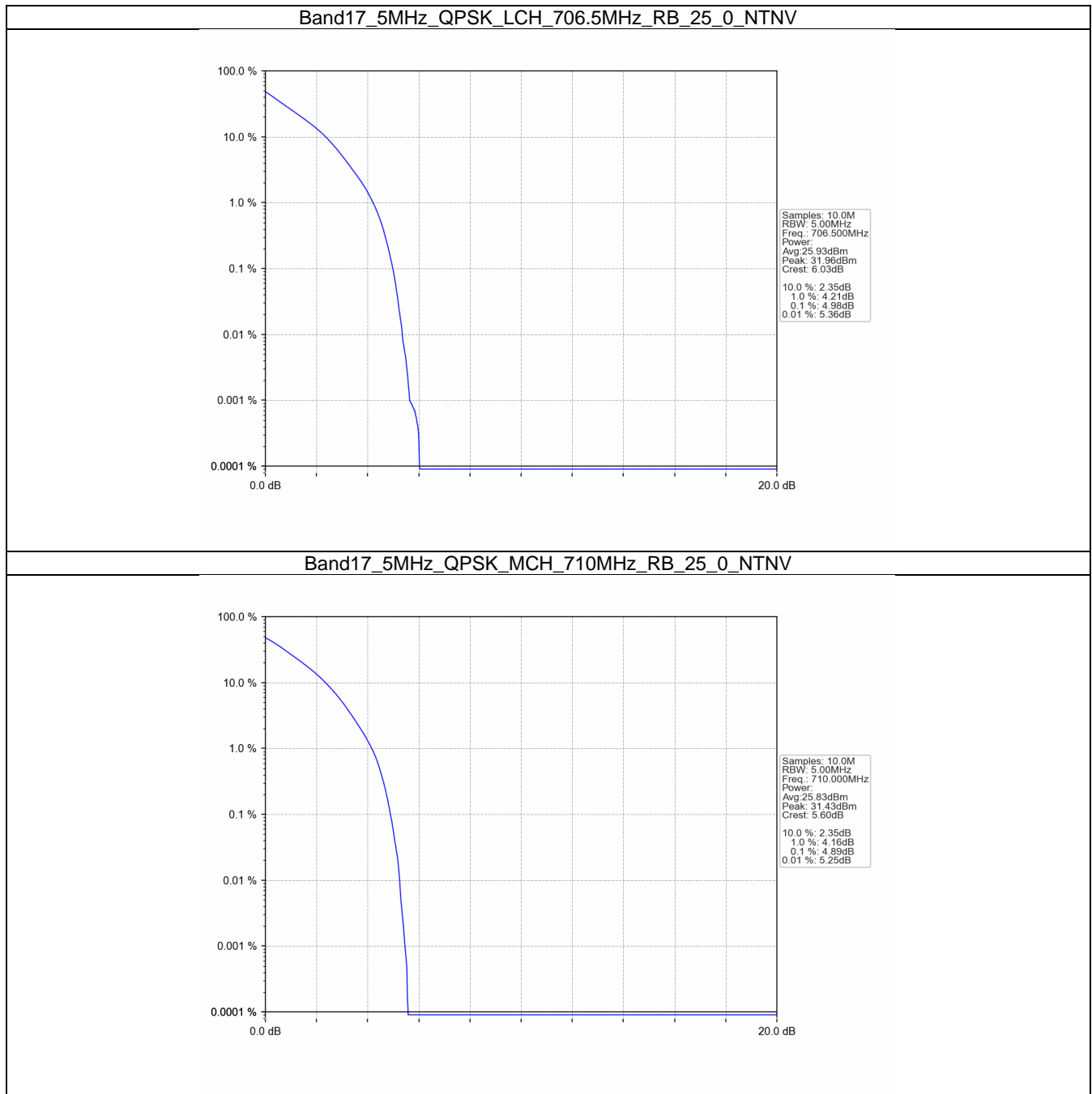
4. Peak-Average Ratio

4.1 B17_5MHz

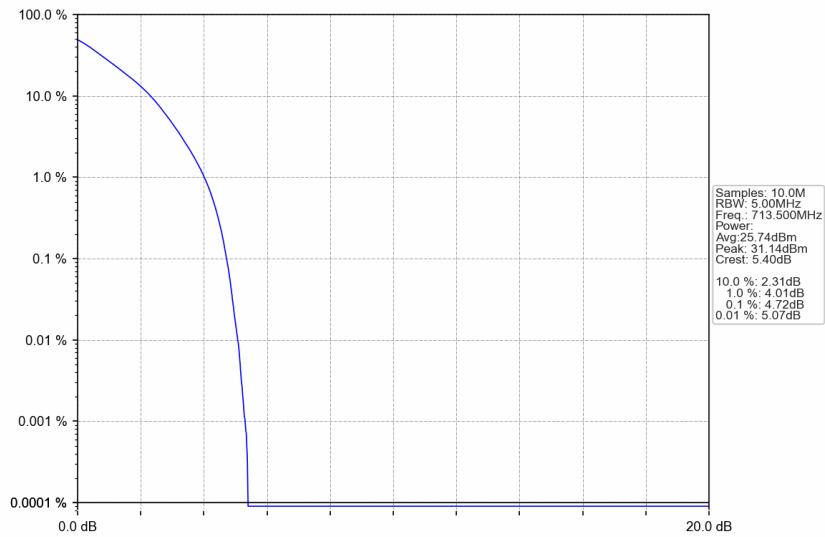
4.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	25	0	4.98	<=13	Pass
	710	25	0	4.89	<=13	Pass
	713.5	25	0	4.72	<=13	Pass
16QAM	706.5	25	0	5.81	<=13	Pass
	710	25	0	5.70	<=13	Pass
	713.5	25	0	5.47	<=13	Pass
64QAM	706.5	25	0	6.31	<=13	Pass
	710	25	0	6.26	<=13	Pass
	713.5	25	0	6.06	<=13	Pass

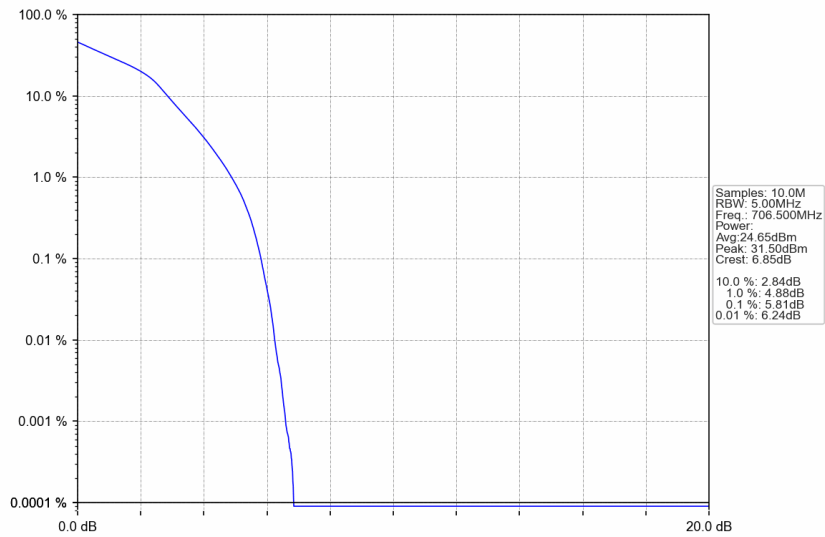
4.1.2 Test Graph



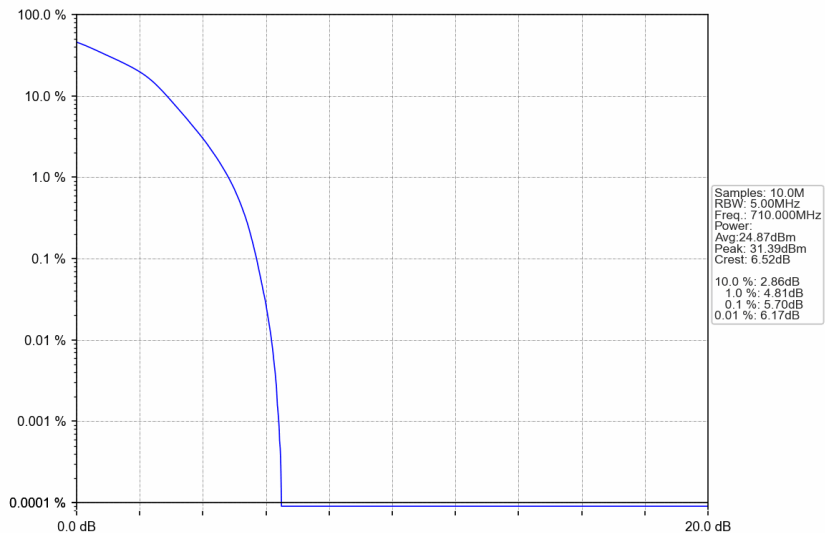
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



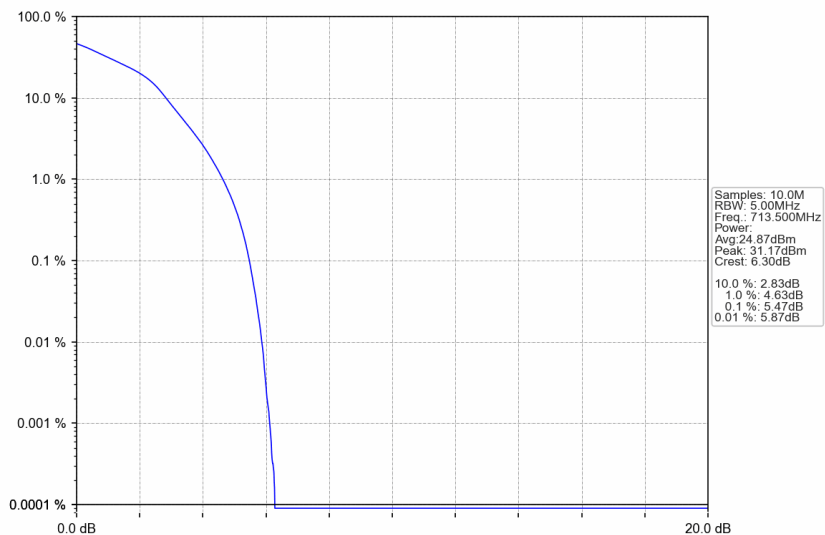
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



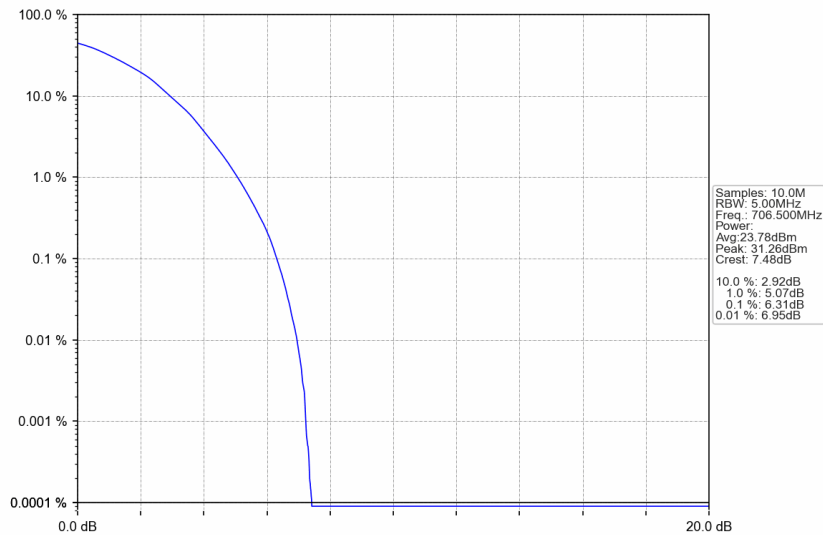
Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



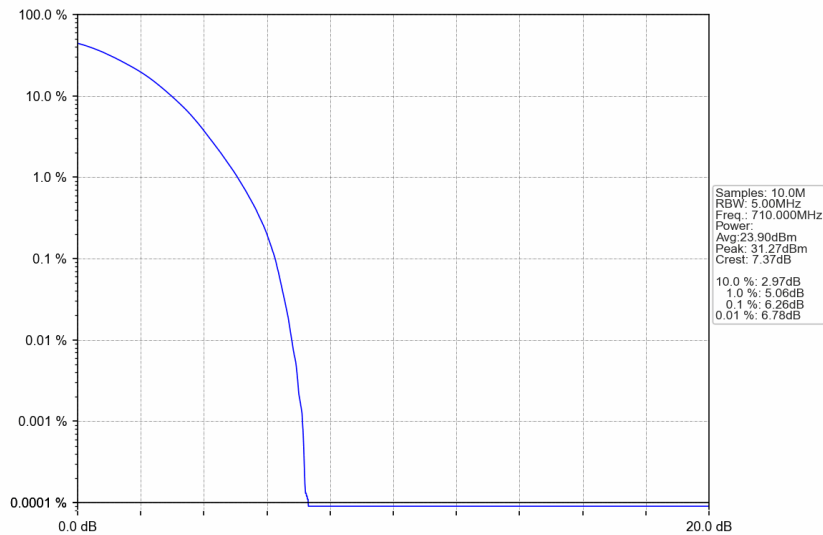
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



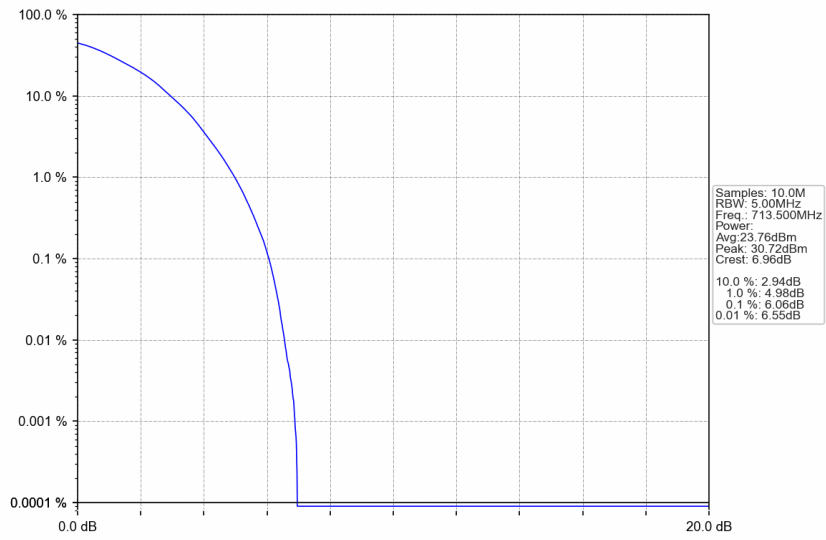
Band17_5MHz_64QAM_LCH_706.5MHz_RB_25_0_NTNV



Band17_5MHz_64QAM_MCH_710MHz_RB_25_0_NTNV



Band17_5MHz_64QAM_HCH_713.5MHz_RB_25_0_NTNV

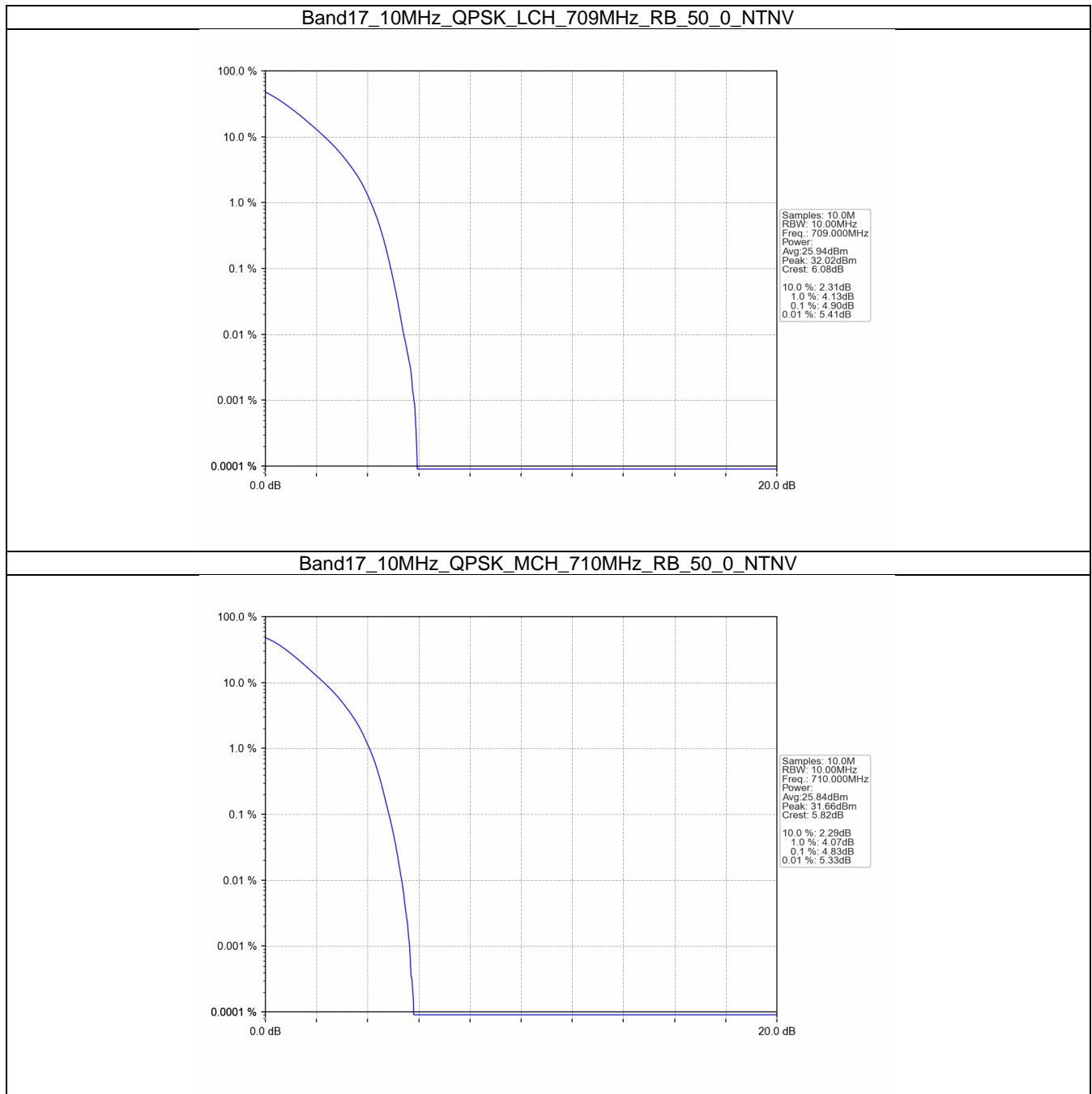


4.2 B17_10MHz

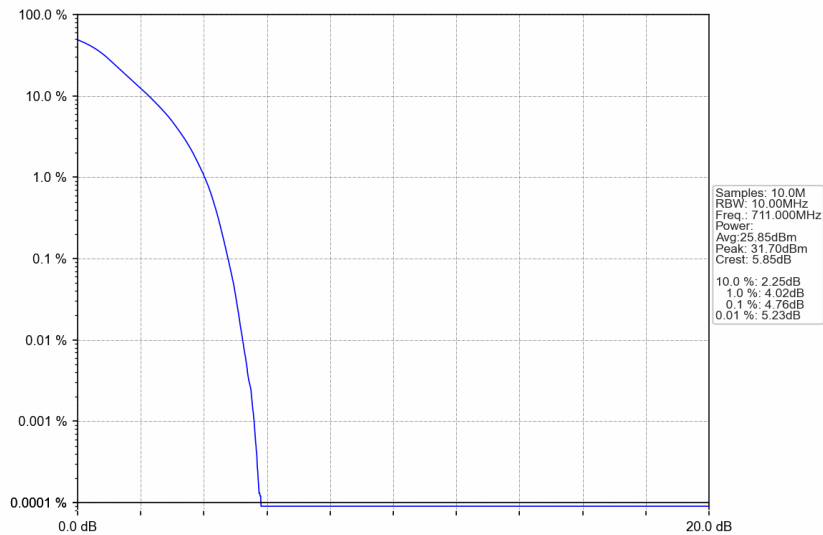
4.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	709	50	0	4.90	<=13	Pass
	710	50	0	4.83	<=13	Pass
	711	50	0	4.76	<=13	Pass
16QAM	709	50	0	5.73	<=13	Pass
	710	50	0	5.72	<=13	Pass
	711	50	0	5.64	<=13	Pass
64QAM	709	50	0	6.18	<=13	Pass
	710	50	0	6.21	<=13	Pass
	711	50	0	6.13	<=13	Pass

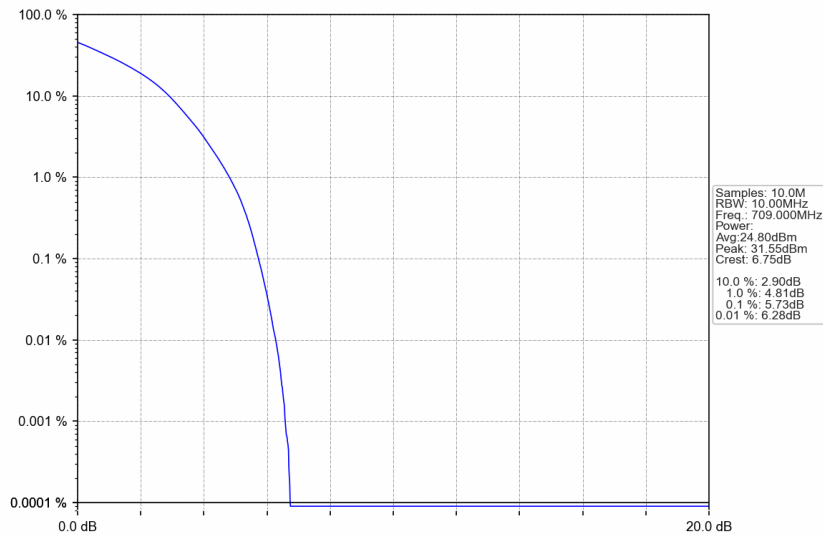
4.2.2 Test Graph



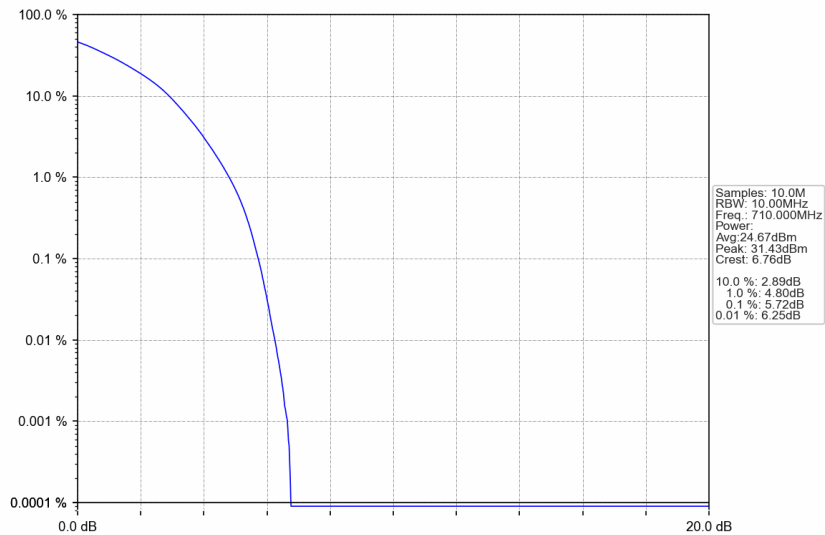
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



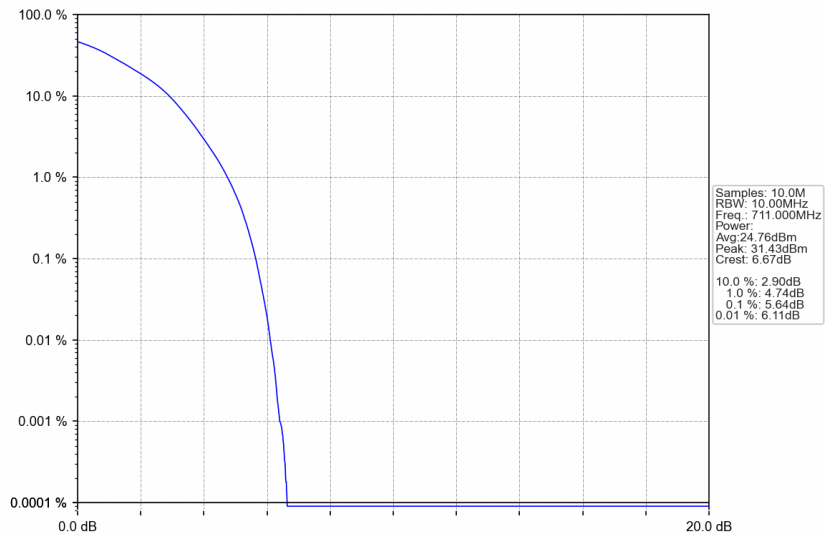
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



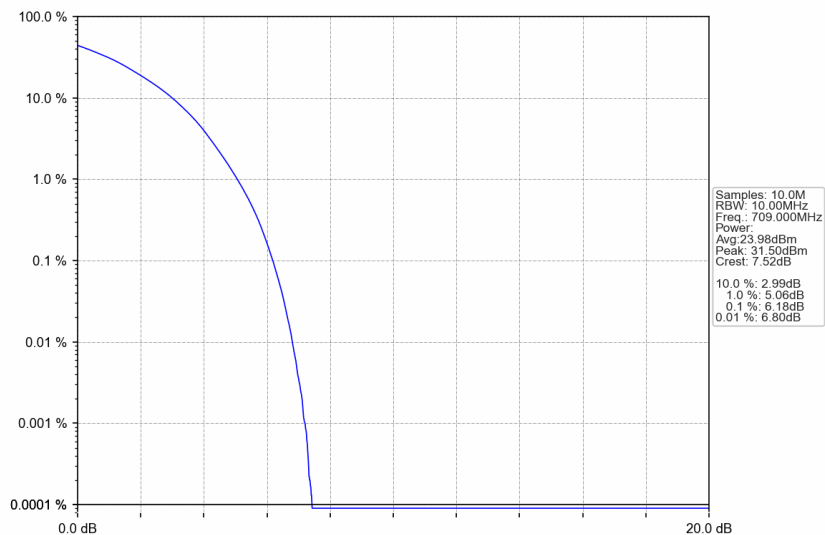
Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



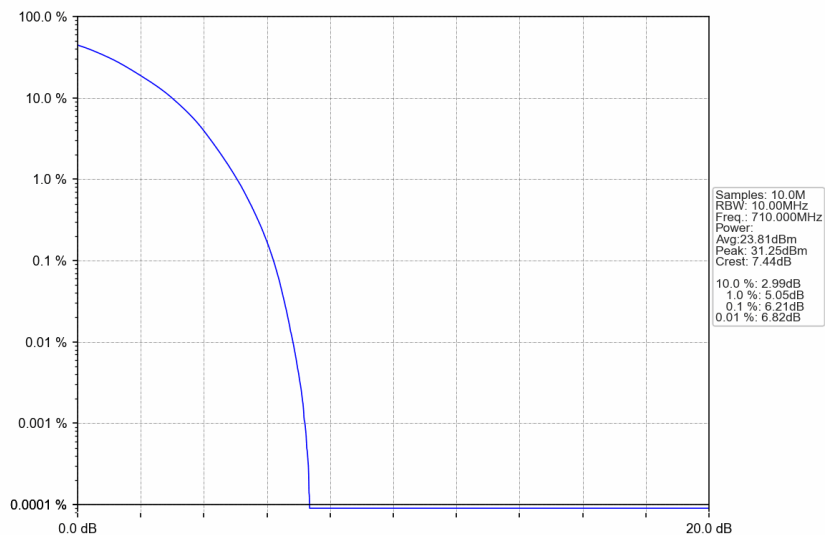
Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



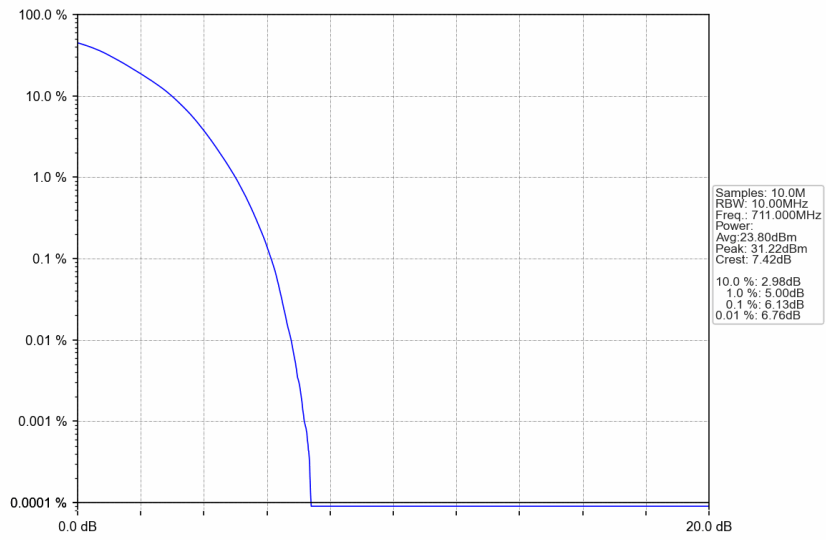
Band17_10MHz_64QAM_LCH_709MHz_RB_50_0_NTNV



Band17_10MHz_64QAM_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_64QAM_HCH_711MHz_RB_50_0_NTNV



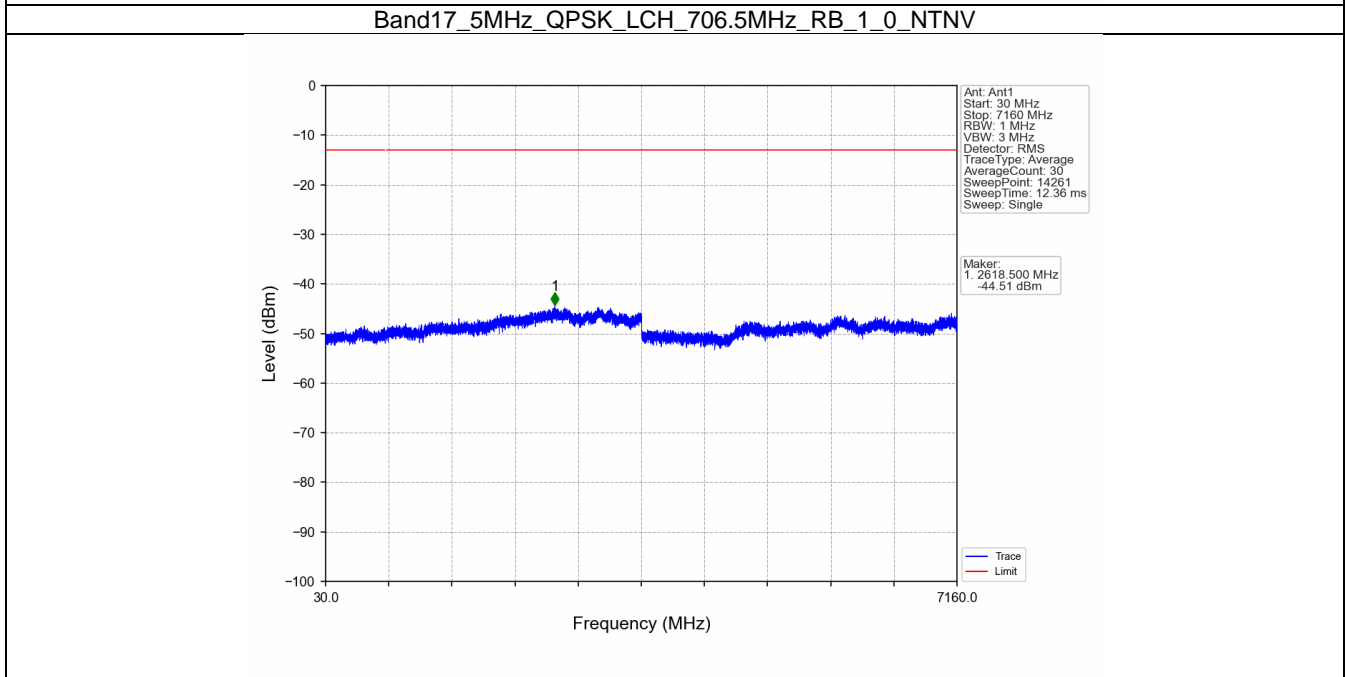
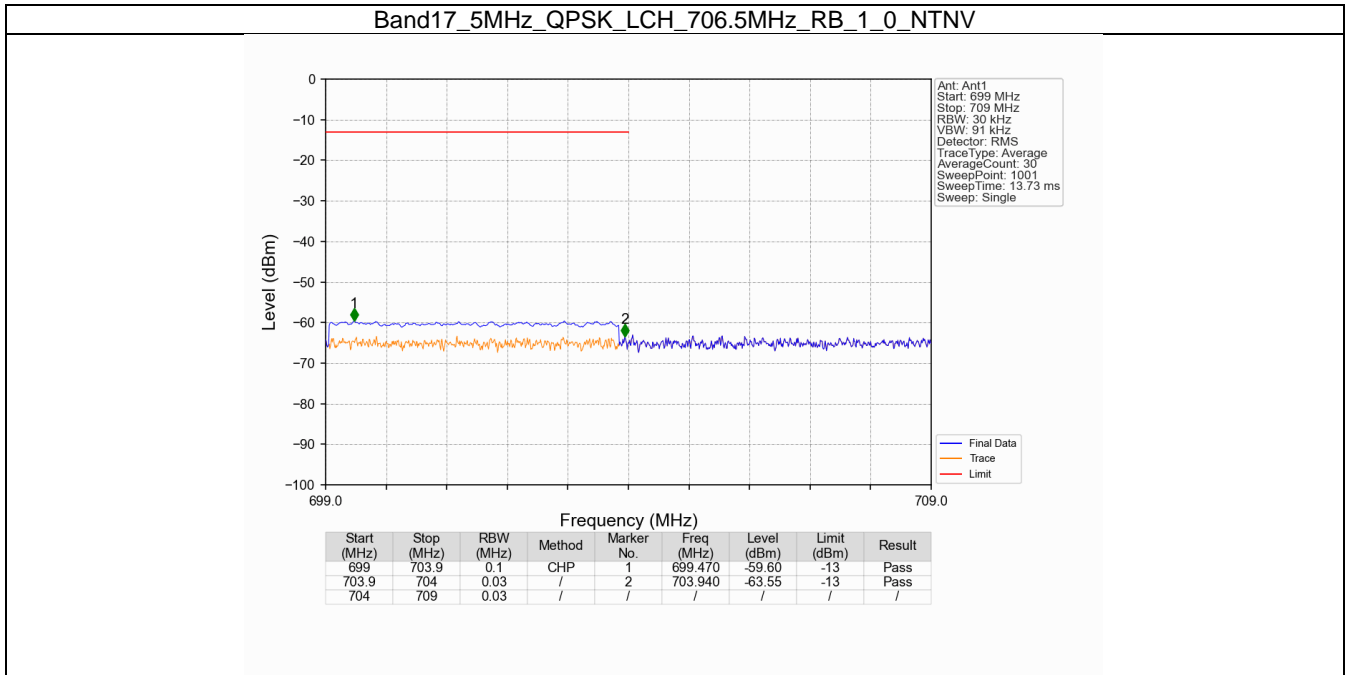
5. Spurious Emission

5.1 B17_5MHz

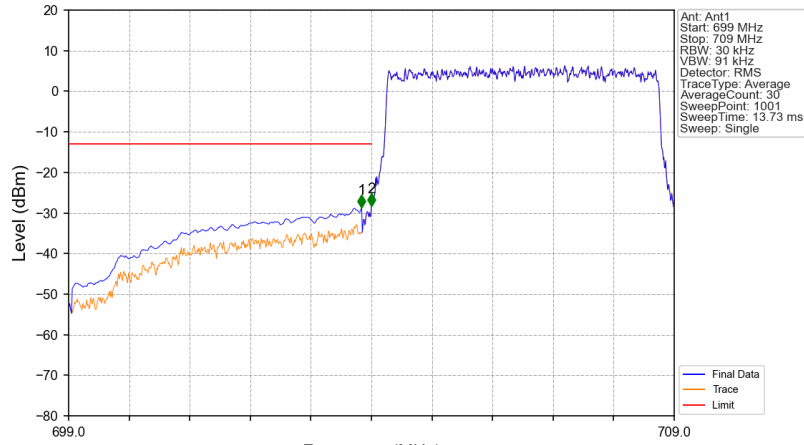
5.1.1 Test Result

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

5.1.2 Test Graph

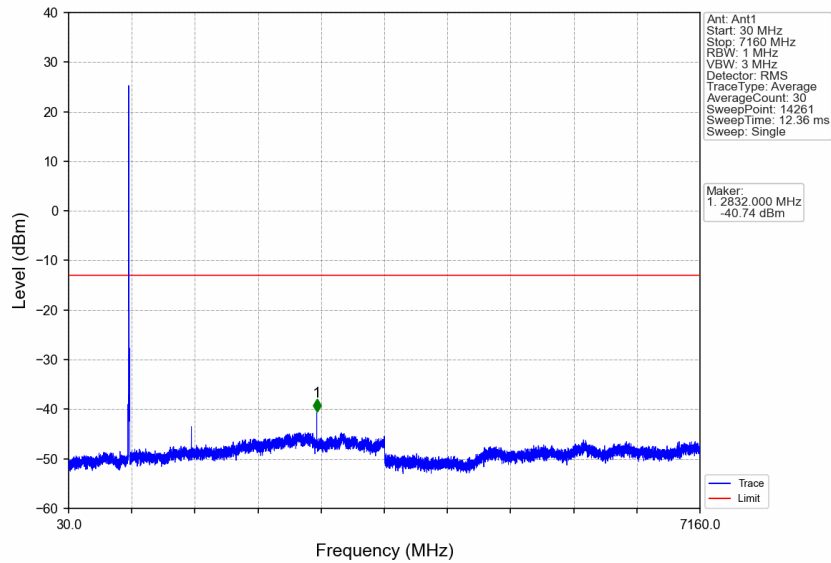


Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-28.74	-13	Pass
703.9	704	0.03	/	2	704.000	-28.32	-13	Pass
704	709	0.03	/	/	/	/	/	/

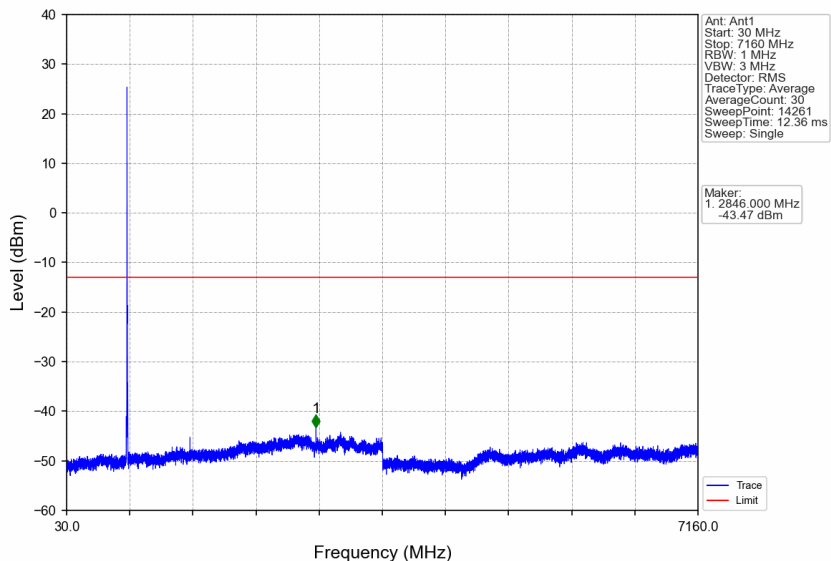
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



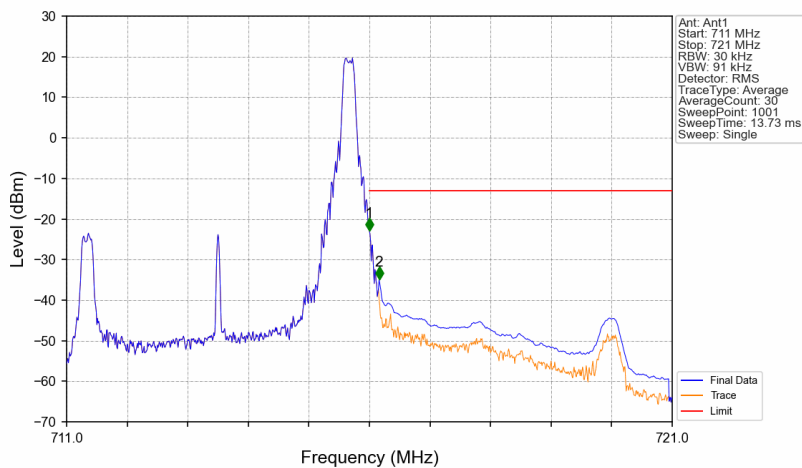
Ant: Ant1
 Start: 30 MHz
 Stop: 7160 MHz
 RBW: 1 MHz
 VBW: 3 MHz
 Detector: RMS
 TraceType: Average
 AverageCount: 30
 SweepPoint: 14261
 SweepTime: 12.36 ms
 Sweep: Single

Marker:
 1.2832000 MHz
 -40.74 dBm

Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

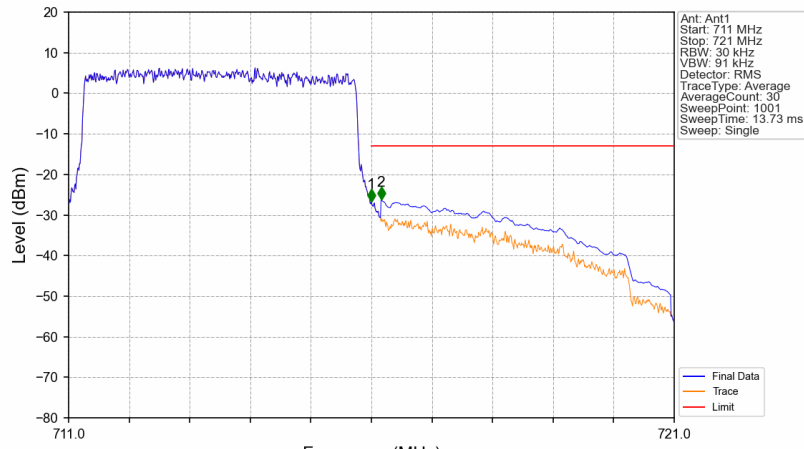


Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



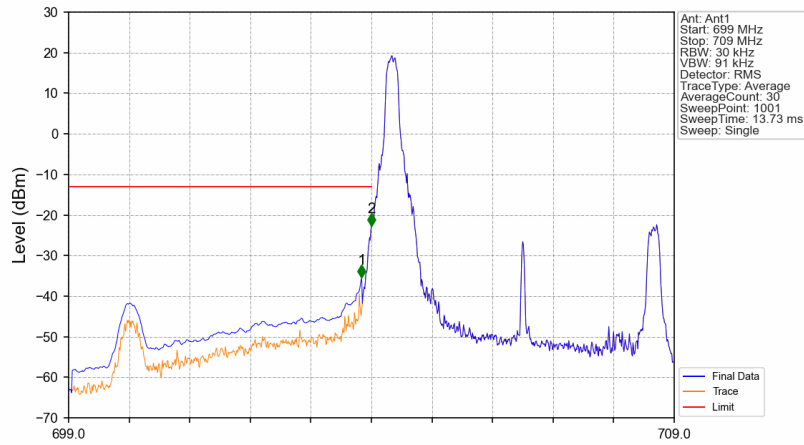
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-22.91	-13	Pass
716.1	721	0.1	CHP	2	716.160	-34.87	-13	Pass

Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



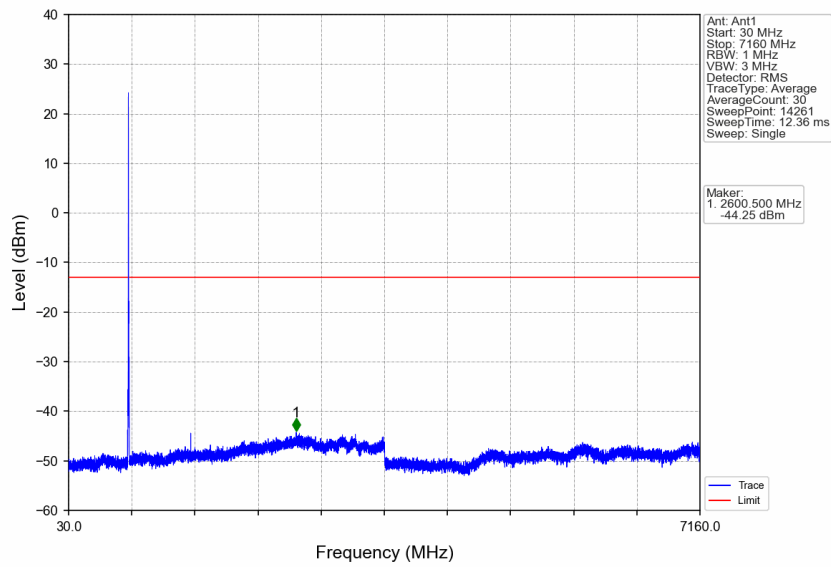
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-26.71	-13	Pass
716.1	721	0.1	CHP	2	716.160	-26.16	-13	Pass

Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV

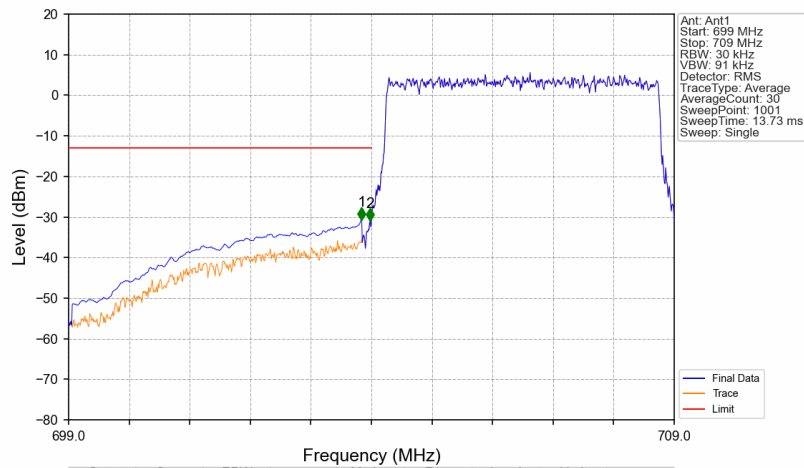


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-35.51	-13	Pass
703.9	704	0.03	/	2	704.000	-22.74	-13	Pass
704	709	0.03	/	/	/	/	/	/

Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV

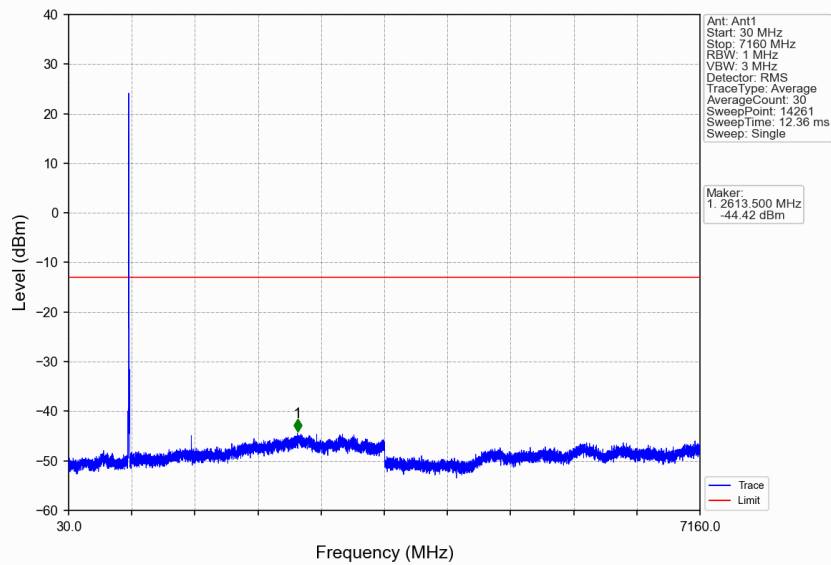


Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV

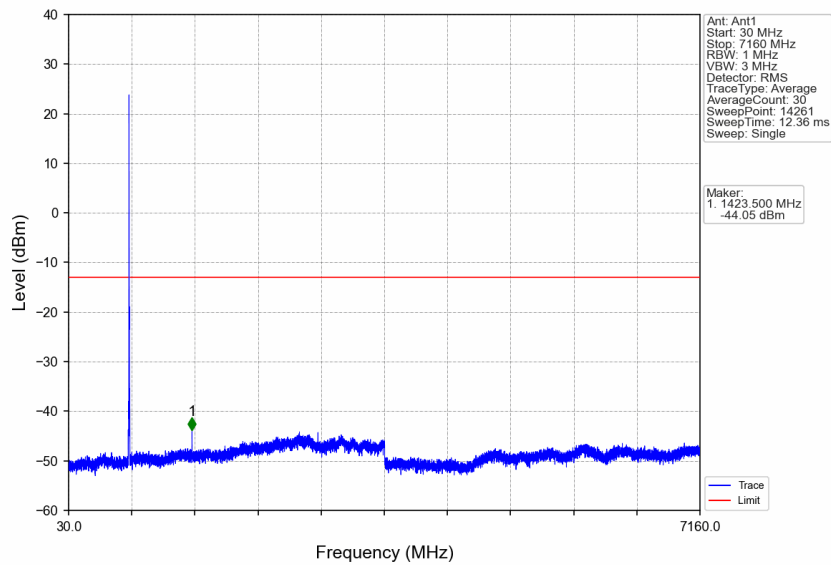


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-30.73	-13	Pass
703.9	704	0.03	/	2	703.980	-31.04	-13	Pass
704	709	0.03	/	/	/	/	/	/

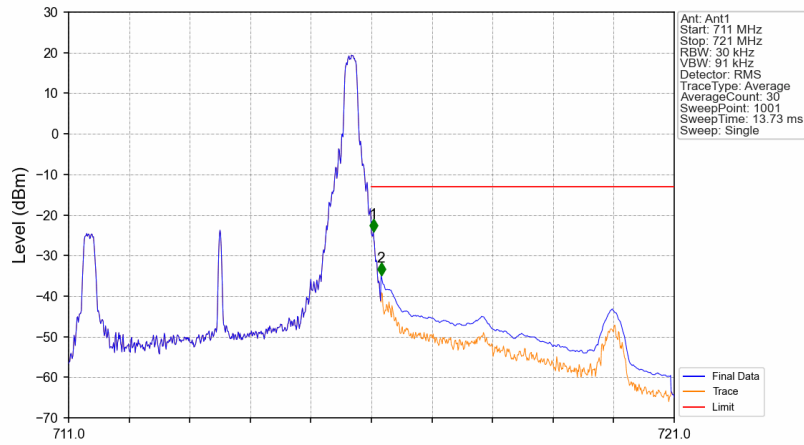
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV

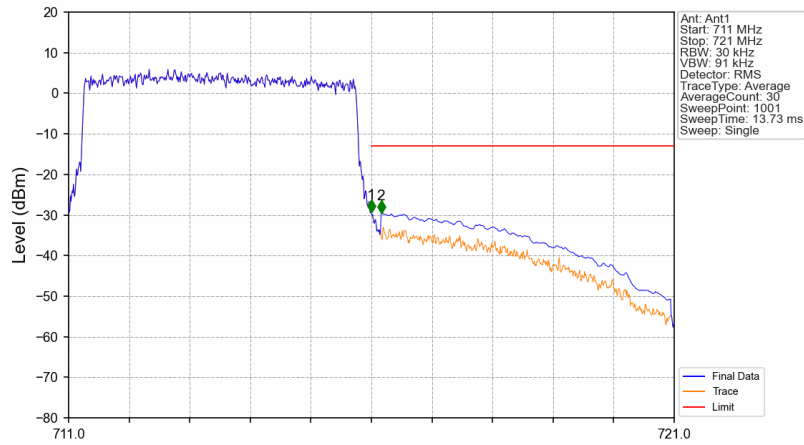


Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_24_NTNV



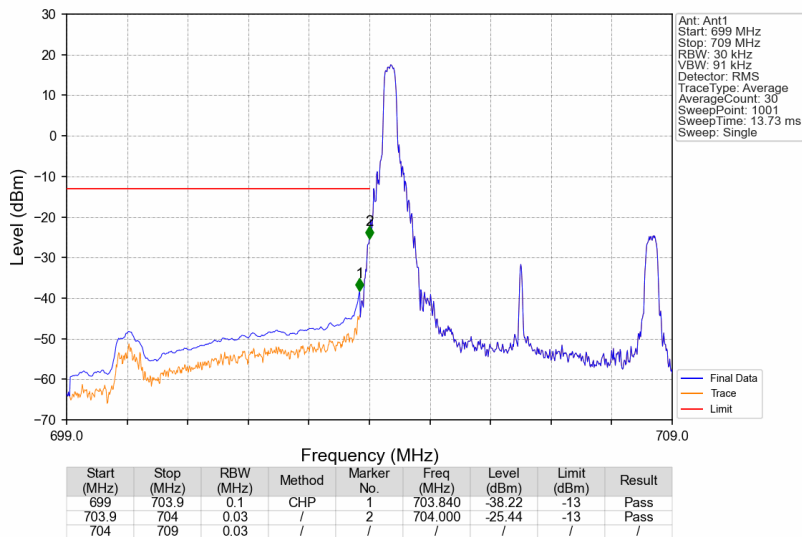
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.030	-24.09	-13	Pass
716.1	721	0.1	CHP	2	716.160	-34.86	-13	Pass

Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

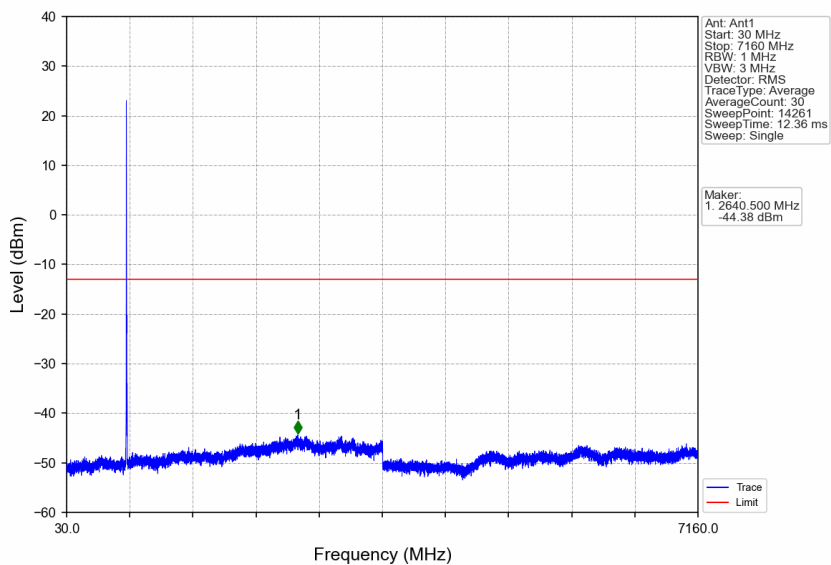


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-29.36	-13	Pass
716.1	721	0.1	CHP	2	716.160	-29.60	-13	Pass

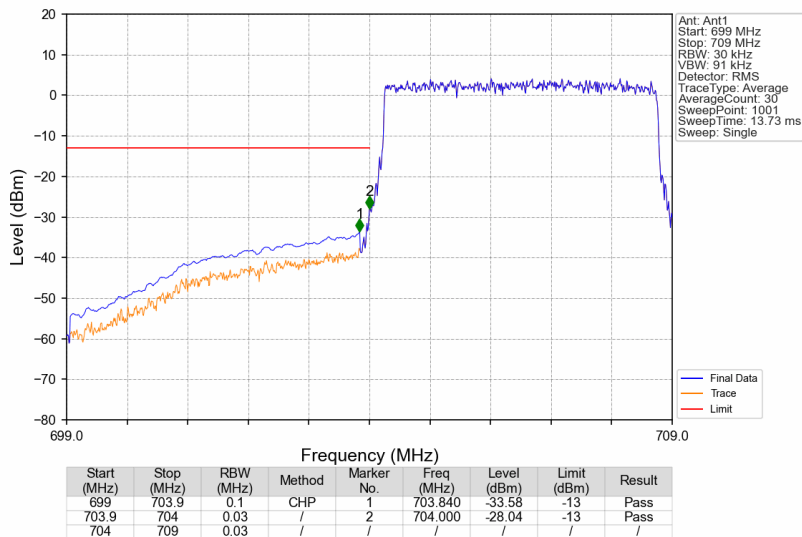
Band17_5MHz_64QAM_LCH_706.5MHz_RB_1_0_NTNV



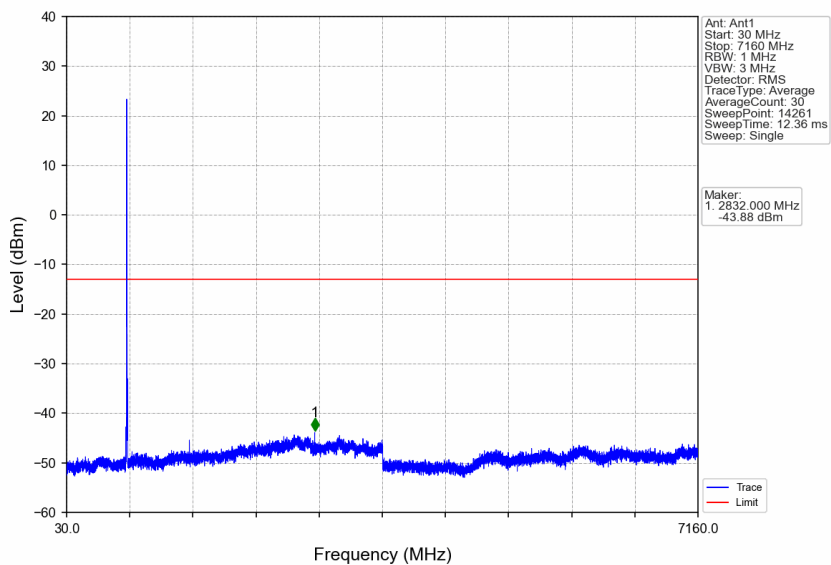
Band17_5MHz_64QAM_LCH_706.5MHz_RB_1_0_NTNV



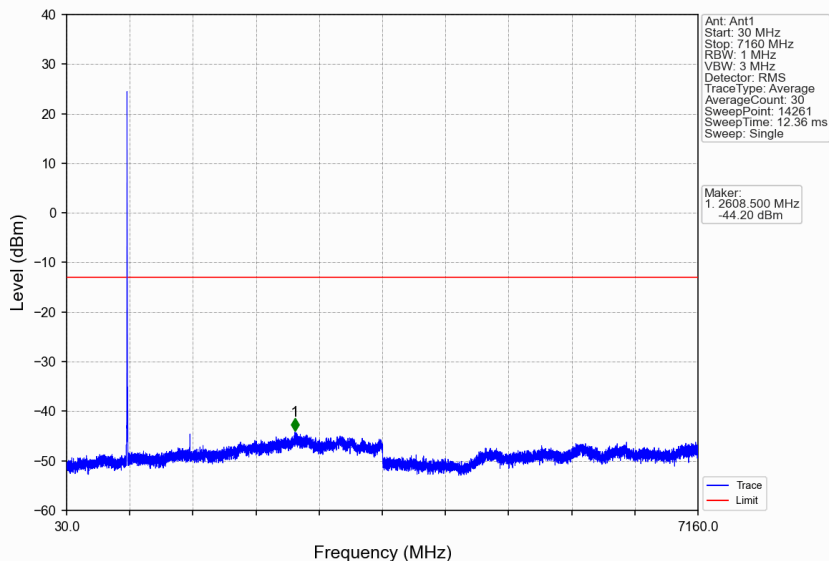
Band17_5MHz_64QAM_LCH_706.5MHz_RB_25_0_NTNV



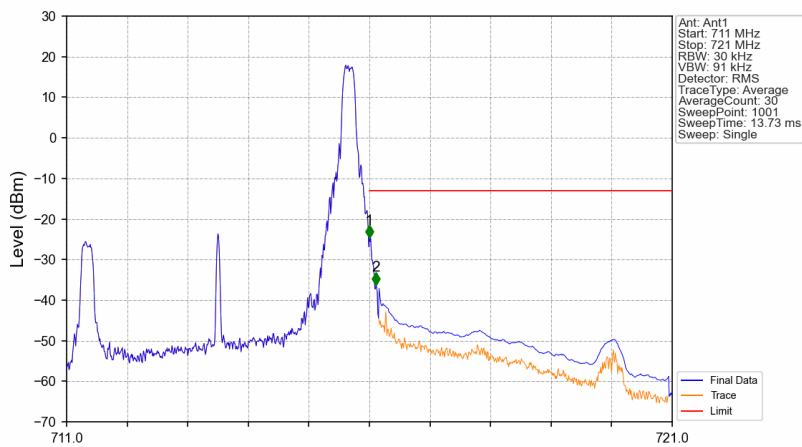
Band17_5MHz_64QAM_MCH_710MHz_RB_1_0_NTNV



Band17_5MHz_64QAM_HCH_713.5MHz_RB_1_0_NTNV

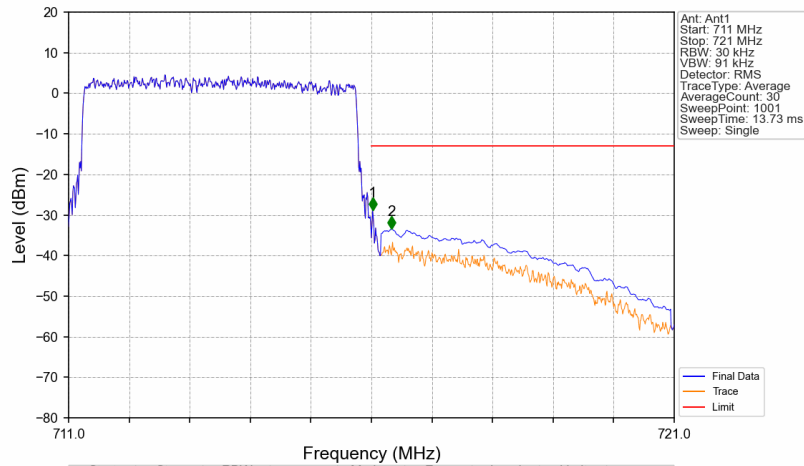


Band17_5MHz_64QAM_HCH_713.5MHz_RB_1_24_NTNV



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	716.000	-24.67	-13	Pass
716.1	721	0.1	CHP	2	716.110	-36.23	-13	Pass

Band17_5MHz_64QAM_HCH_713.5MHz_RB_25_0_NTNV



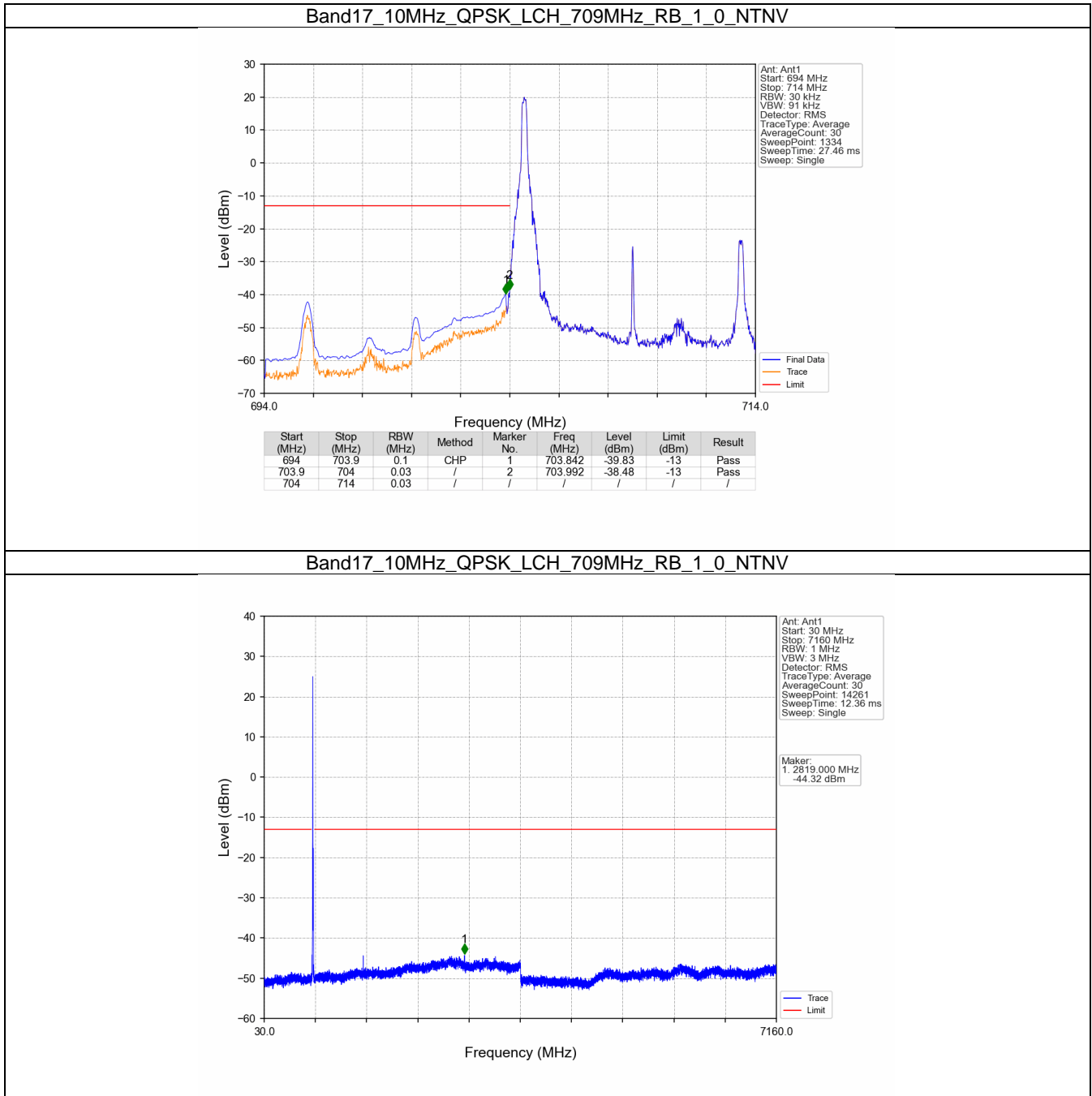
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.020	-28.92	-13	Pass
716.1	721	0.1	CHP	2	716.330	-33.39	-13	Pass

5.2 B17_10MHz

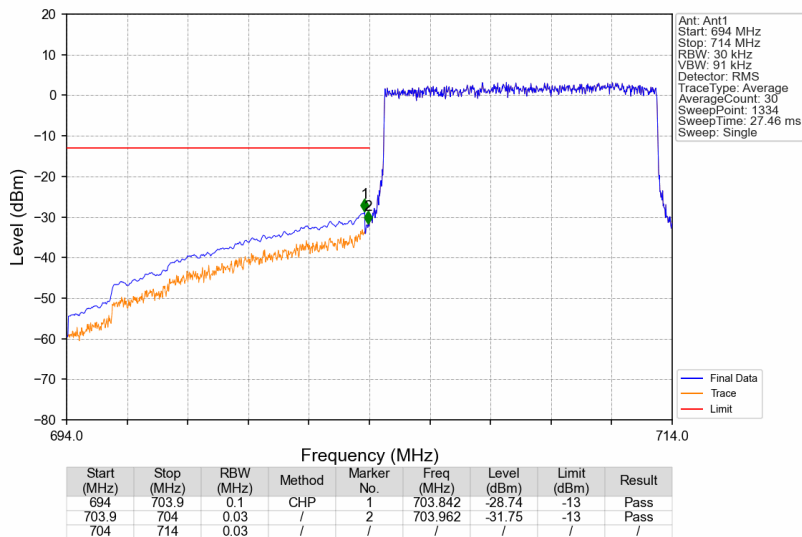
5.2.1 Test Result

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		
64QAM	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		

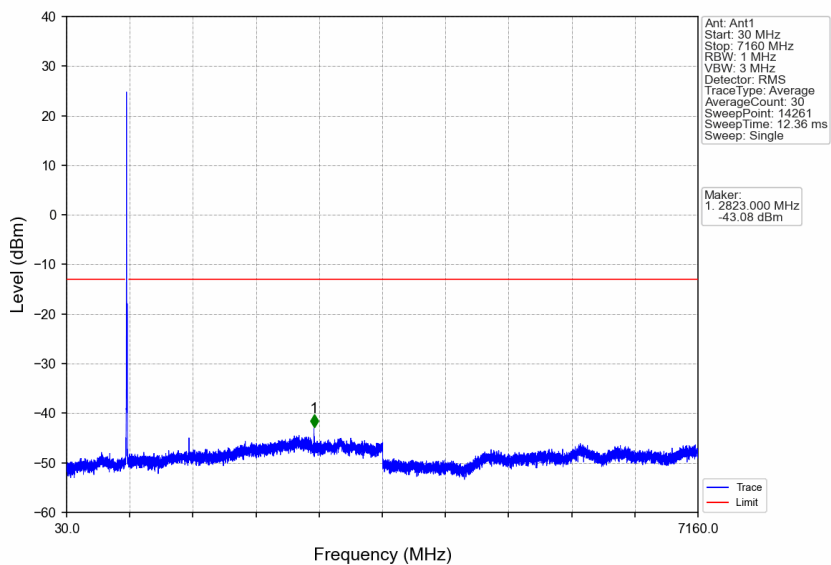
5.2.2 Test Graph



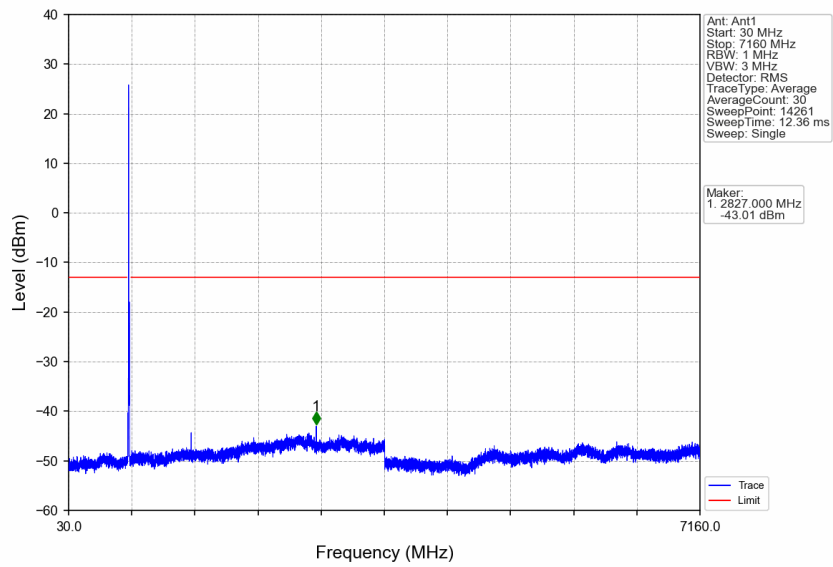
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



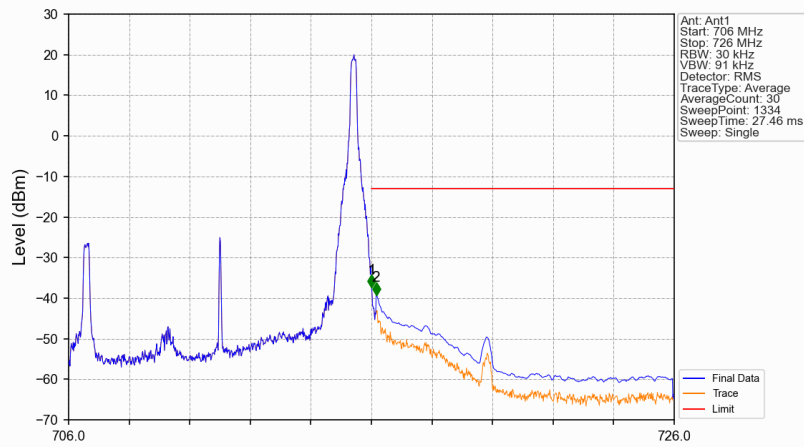
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

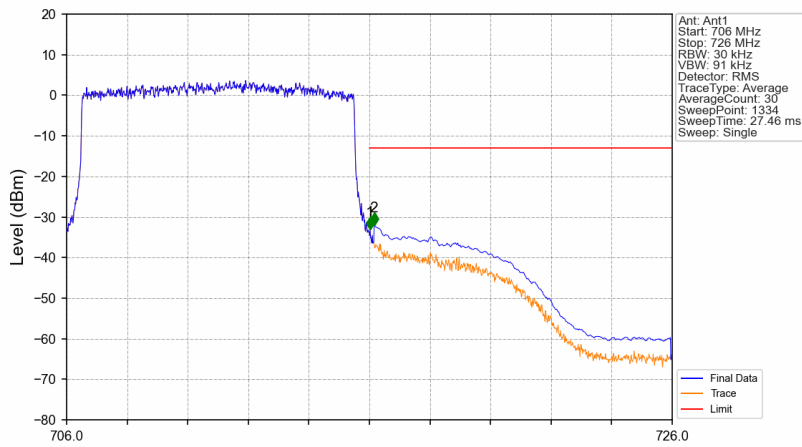


Band17_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



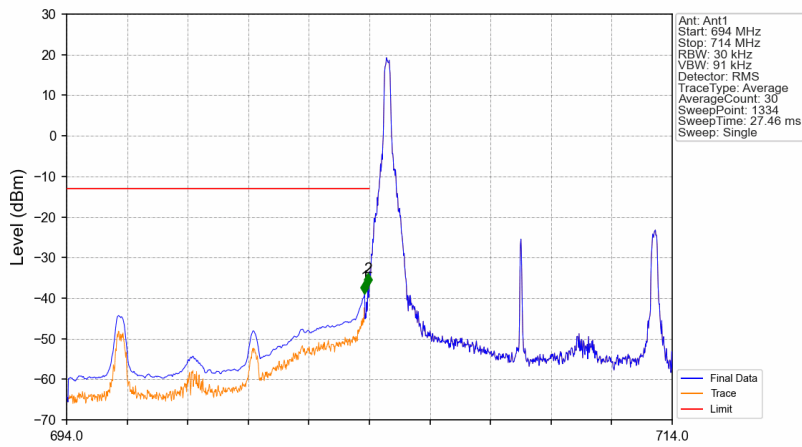
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-37.44	-13	Pass
716.1	726	0.1	CHP	2	716.158	-39.23	-13	Pass

Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



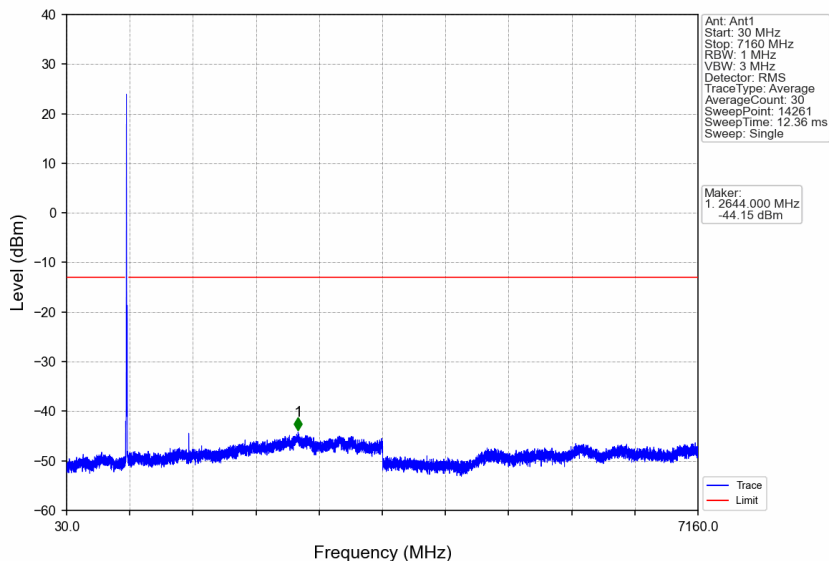
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716.1	726	0.1	CHP	2	716.158	-32.05	-13	Pass

Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV

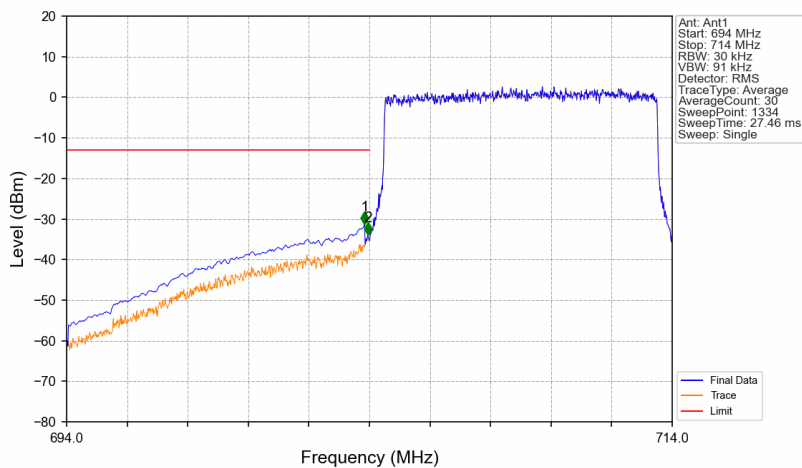


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-38.92	-13	Pass
703.9	704	0.03	/	2	703.947	-37.01	-13	Pass
704	714	0.03	/	/	/	/	/	/

Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV

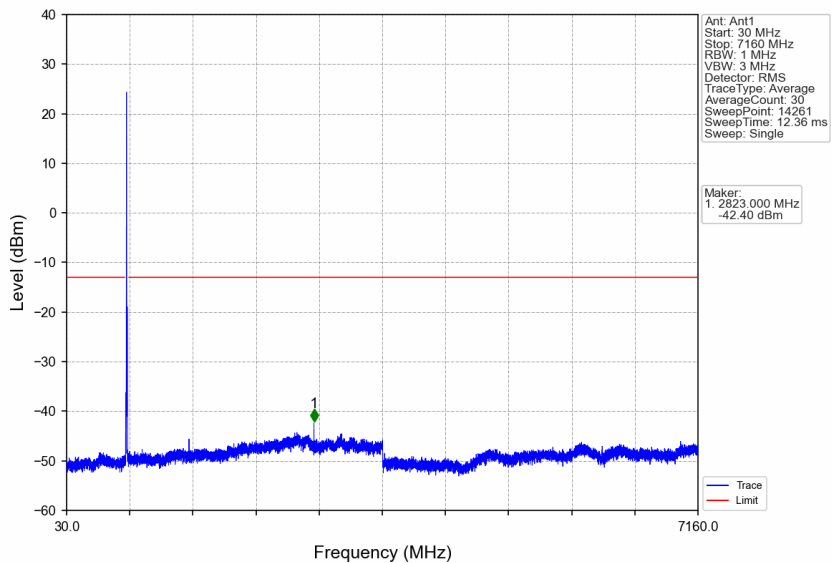


Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV

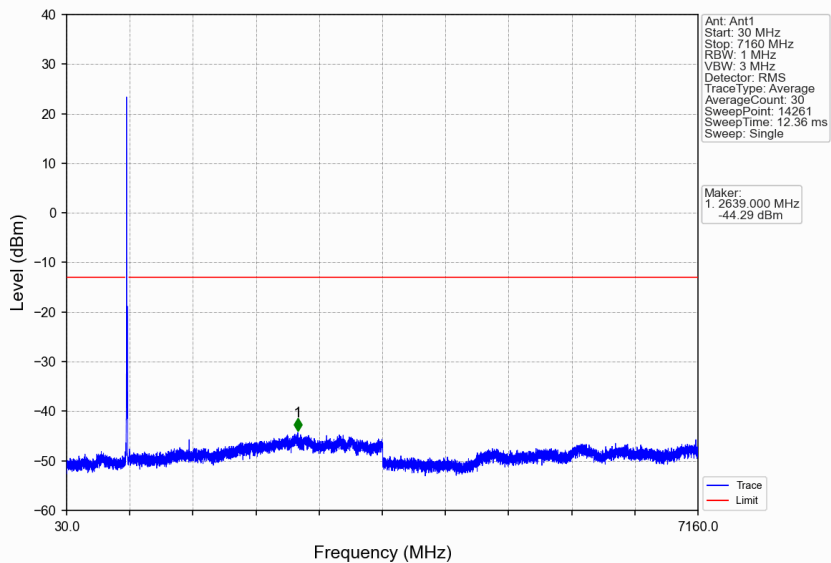


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-31.29	-13	Pass
703.9	704	0.03	/	2	703.947	-33.98	-13	Pass
704	714	0.03	/	/	/	/	/	/

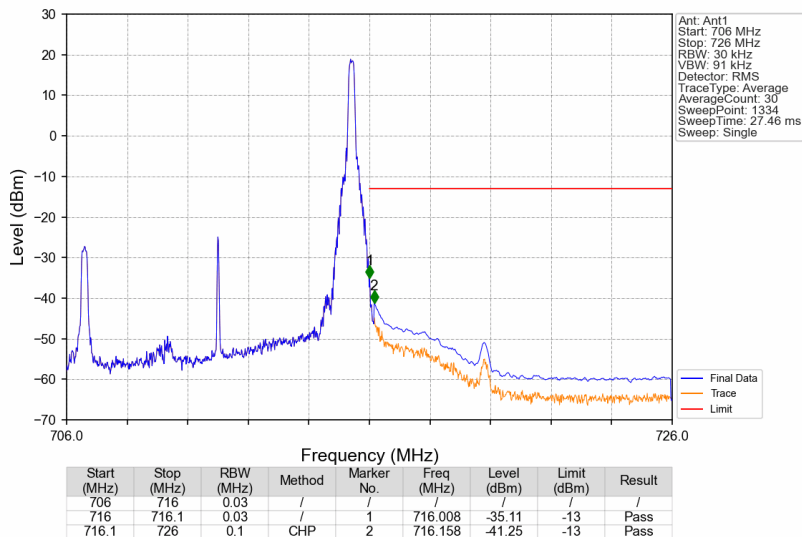
Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



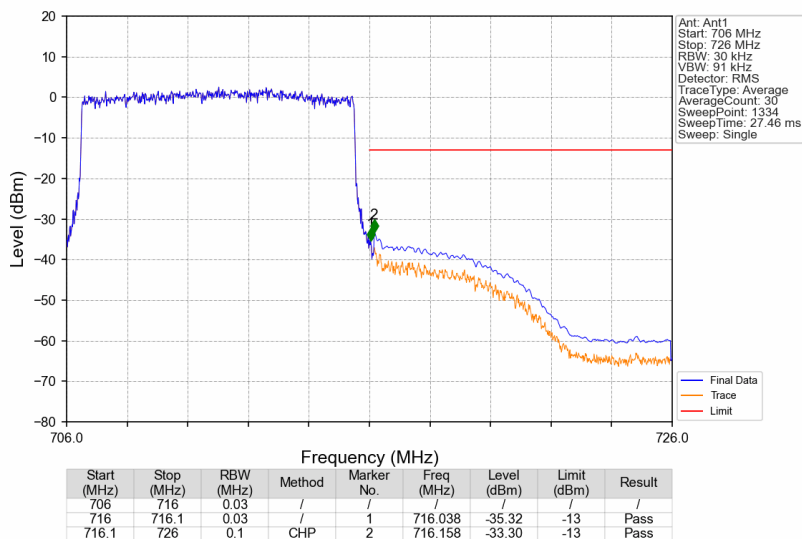
Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



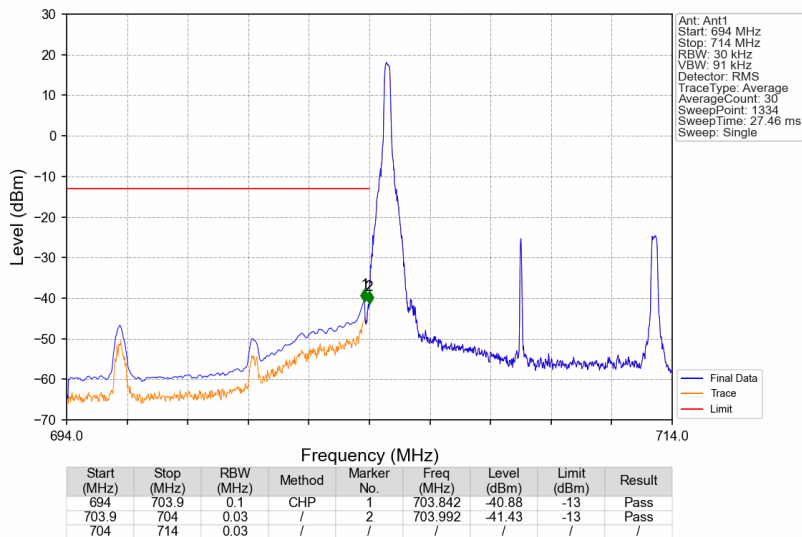
Band17_10MHz_16QAM_HCH_711MHz_RB_1_49_NTV



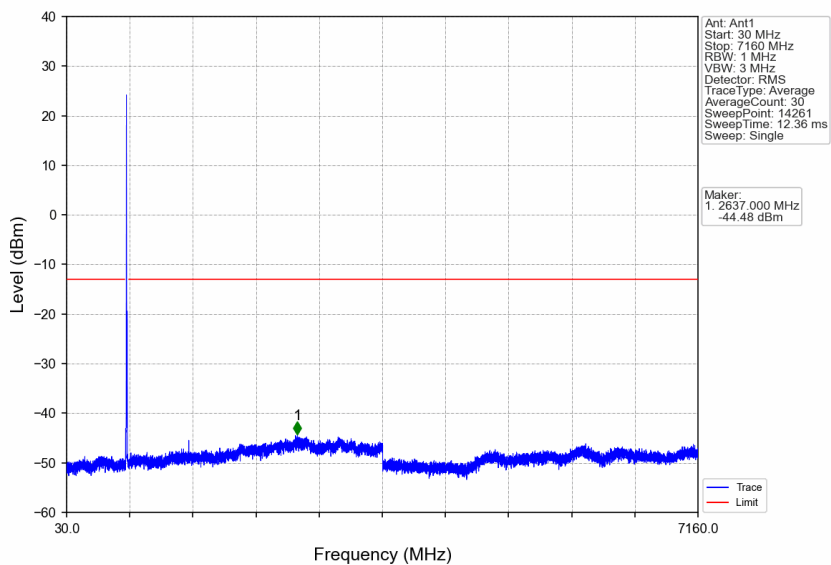
Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTV



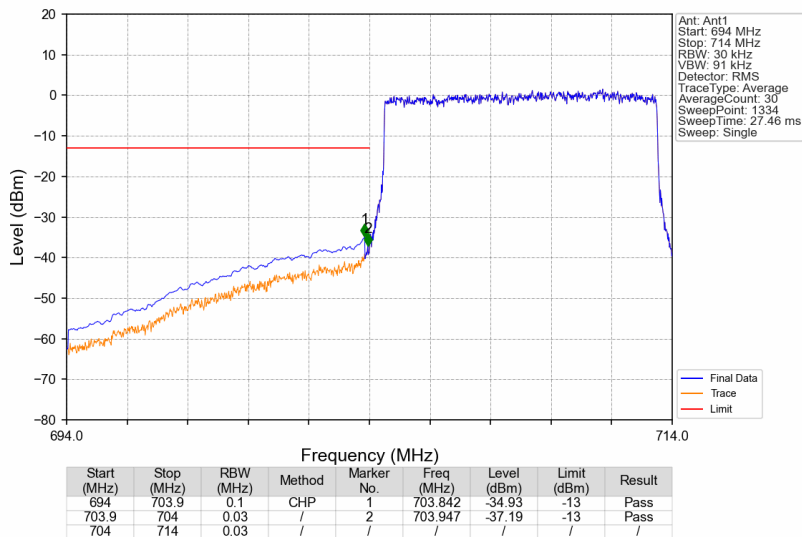
Band17_10MHz_64QAM_LCH_709MHz_RB_1_0_NTNV



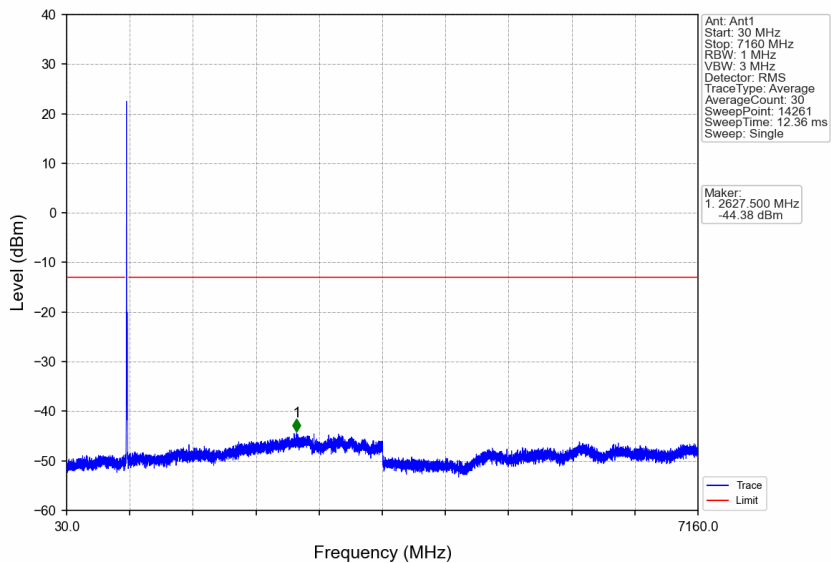
Band17_10MHz_64QAM_LCH_709MHz_RB_1_0_NTNV



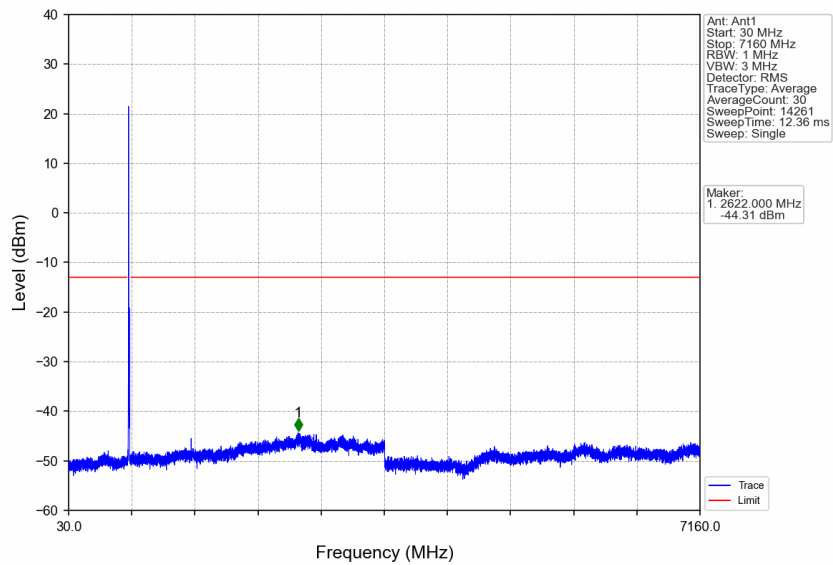
Band17_10MHz_64QAM_LCH_709MHz_RB_50_0_NTNV



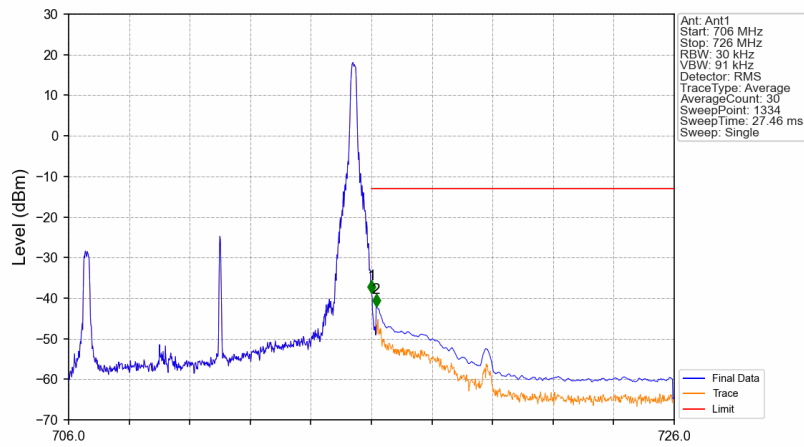
Band17_10MHz_64QAM_MCH_710MHz_RB_1_0_NTNV



Band17_10MHz_64QAM_HCH_711MHz_RB_1_0_NTNV

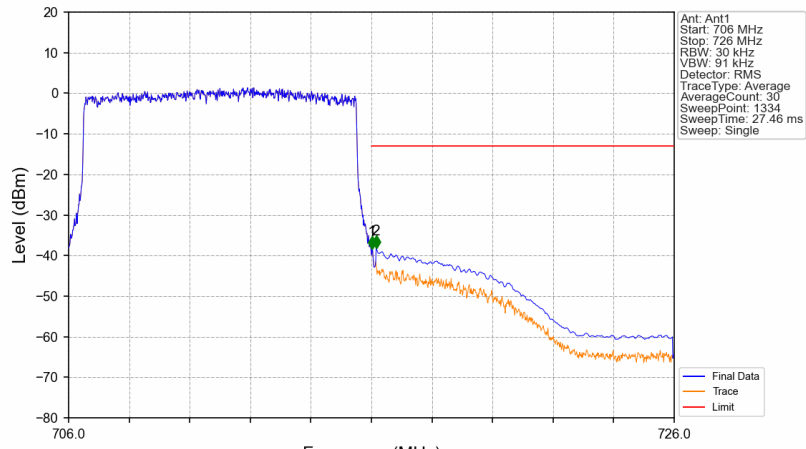


Band17_10MHz_64QAM_HCH_711MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-38.74	-13	Pass
716.1	726	0.1	CHP	2	716.158	-42.19	-13	Pass

Band17_10MHz_64QAM_HCH_711MHz_RB_50_0_NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.023	-38.37	-13	Pass
716.1	726	0.1	CHP	2	716.158	-38.26	-13	Pass