

Appendix - LTE Band 17

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B17_5MHz_ERP

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	22.51	-2.88	17.48	<=34.77	Pass
			13	22.39	-2.88	17.36	<=34.77	Pass
			24	22.48	-2.88	17.45	<=34.77	Pass
		12	0	21.93	-2.88	16.90	<=34.77	Pass
			6	22.00	-2.88	16.97	<=34.77	Pass
			13	22.03	-2.88	17.00	<=34.77	Pass
		25	0	22.04	-2.88	17.01	<=34.77	Pass
	710	1	0	22.57	-2.88	17.54	<=34.77	Pass
			13	22.48	-2.88	17.45	<=34.77	Pass
			24	22.53	-2.88	17.50	<=34.77	Pass
		12	0	21.99	-2.88	16.96	<=34.77	Pass
			6	22.06	-2.88	17.03	<=34.77	Pass
			13	21.99	-2.88	16.96	<=34.77	Pass
		25	0	22.02	-2.88	16.99	<=34.77	Pass
	713.5	1	0	22.36	-2.88	17.33	<=34.77	Pass
			13	22.38	-2.88	17.35	<=34.77	Pass
			24	22.43	-2.88	17.40	<=34.77	Pass
		12	0	21.98	-2.88	16.95	<=34.77	Pass
			6	22.01	-2.88	16.98	<=34.77	Pass
			13	21.95	-2.88	16.92	<=34.77	Pass
		25	0	21.99	-2.88	16.96	<=34.77	Pass
16QAM	706.5	1	0	22.00	-2.88	16.97	<=34.77	Pass
			13	21.91	-2.88	16.88	<=34.77	Pass
			24	21.95	-2.88	16.92	<=34.77	Pass
		12	0	21.49	-2.88	16.46	<=34.77	Pass
			6	21.45	-2.88	16.42	<=34.77	Pass
			13	21.09	-2.88	16.06	<=34.77	Pass
		25	0	21.44	-2.88	16.41	<=34.77	Pass
	710	1	0	21.14	-2.88	16.11	<=34.77	Pass
			13	21.13	-2.88	16.10	<=34.77	Pass
			24	21.19	-2.88	16.16	<=34.77	Pass
		12	0	21.02	-2.88	15.99	<=34.77	Pass
			6	20.98	-2.88	15.95	<=34.77	Pass
			13	21.02	-2.88	15.99	<=34.77	Pass
		25	0	21.05	-2.88	16.02	<=34.77	Pass
	713.5	1	0	22.09	-2.88	17.06	<=34.77	Pass
			13	22.06	-2.88	17.03	<=34.77	Pass
			24	22.09	-2.88	17.06	<=34.77	Pass
		12	0	21.10	-2.88	16.07	<=34.77	Pass
			6	21.03	-2.88	16.00	<=34.77	Pass
			13	21.05	-2.88	16.02	<=34.77	Pass
		25	0	21.10	-2.88	16.07	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B17_10MHz_ERP

Band: 17 / Bandwidth: 10MHz / NTN									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	709	1	0	22.61	-2.88	17.58	<=34.77	Pass	
			25	22.54	-2.88	17.51	<=34.77	Pass	
			49	22.63	-2.88	17.60	<=34.77	Pass	
		25	0	21.97	-2.88	16.94	<=34.77	Pass	
			13	21.95	-2.88	16.92	<=34.77	Pass	
			25	22.09	-2.88	17.06	<=34.77	Pass	
		50	0	22.04	-2.88	17.01	<=34.77	Pass	
		710	1	0	22.50	-2.88	17.47	<=34.77	Pass
				25	22.46	-2.88	17.43	<=34.77	Pass
	49			22.50	-2.88	17.47	<=34.77	Pass	
	25		0	21.94	-2.88	16.91	<=34.77	Pass	
			13	22.02	-2.88	16.99	<=34.77	Pass	
			25	21.96	-2.88	16.93	<=34.77	Pass	
	50		0	21.98	-2.88	16.95	<=34.77	Pass	
	711		1	0	22.34	-2.88	17.31	<=34.77	Pass
				25	22.41	-2.88	17.38	<=34.77	Pass
		49		22.42	-2.88	17.39	<=34.77	Pass	
		25	0	21.92	-2.88	16.89	<=34.77	Pass	
			13	21.94	-2.88	16.91	<=34.77	Pass	
			25	21.97	-2.88	16.94	<=34.77	Pass	
		50	0	22.04	-2.88	17.01	<=34.77	Pass	
16QAM		709	1	0	21.50	-2.88	16.47	<=34.77	Pass
				25	21.56	-2.88	16.53	<=34.77	Pass
	49			21.53	-2.88	16.50	<=34.77	Pass	
	25		0	21.54	-2.88	16.51	<=34.77	Pass	
			13	21.16	-2.88	16.13	<=34.77	Pass	
			25	21.21	-2.88	16.18	<=34.77	Pass	
	50		0	21.07	-2.88	16.04	<=34.77	Pass	
	710		1	0	22.13	-2.88	17.10	<=34.77	Pass
				25	22.14	-2.88	17.11	<=34.77	Pass
		49		22.22	-2.88	17.19	<=34.77	Pass	
		25	0	21.13	-2.88	16.10	<=34.77	Pass	
			13	21.05	-2.88	16.02	<=34.77	Pass	
			25	21.13	-2.88	16.10	<=34.77	Pass	
		50	0	21.14	-2.88	16.11	<=34.77	Pass	
		711	1	0	22.05	-2.88	17.02	<=34.77	Pass
				25	22.09	-2.88	17.06	<=34.77	Pass
	49			22.09	-2.88	17.06	<=34.77	Pass	
	25		0	21.04	-2.88	16.01	<=34.77	Pass	
			13	20.96	-2.88	15.93	<=34.77	Pass	
			25	21.09	-2.88	16.06	<=34.77	Pass	
	50		0	21.09	-2.88	16.06	<=34.77	Pass	
Note1: ERP=Conducted Power+Antenna Gain-2.15									

2. Frequency Stability

2.1 Test Result

2.1.1 B17_5MHz

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	-7.596	-0.0108	-2.5 to 2.5	Pass
					3.85	24.076	0.0341	-2.5 to 2.5	Pass
					4.43	17.338	0.0245	-2.5 to 2.5	Pass
				-30	3.85	9.484	0.0134	-2.5 to 2.5	Pass
				-20	3.85	44.174	0.0625	-2.5 to 2.5	Pass
				-10	3.85	21.515	0.0305	-2.5 to 2.5	Pass
				0	3.85	21.257	0.0301	-2.5 to 2.5	Pass
				10	3.85	15.249	0.0216	-2.5 to 2.5	Pass
				30	3.85	33.202	0.0470	-2.5 to 2.5	Pass
				40	3.85	6.623	0.0094	-2.5 to 2.5	Pass
				50	3.85	20.900	0.0296	-2.5 to 2.5	Pass
	710	25	0	20	3.27	-22.173	-0.0312	-2.5 to 2.5	Pass
					3.85	-36.879	-0.0519	-2.5 to 2.5	Pass
					4.43	-41.513	-0.0585	-2.5 to 2.5	Pass
				-30	3.85	-44.031	-0.0620	-2.5 to 2.5	Pass
				-20	3.85	-48.437	-0.0682	-2.5 to 2.5	Pass
				-10	3.85	1.116	0.0016	-2.5 to 2.5	Pass
				0	3.85	-1.731	-0.0024	-2.5 to 2.5	Pass
				10	3.85	-2.775	-0.0039	-2.5 to 2.5	Pass
				30	3.85	-2.961	-0.0042	-2.5 to 2.5	Pass
				40	3.85	-1.645	-0.0023	-2.5 to 2.5	Pass
				50	3.85	-1.516	-0.0021	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-24.948	-0.0350	-2.5 to 2.5	Pass
					3.85	-35.706	-0.0500	-2.5 to 2.5	Pass
					4.43	-41.900	-0.0587	-2.5 to 2.5	Pass
				-30	3.85	-47.393	-0.0664	-2.5 to 2.5	Pass
				-20	3.85	-0.844	-0.0012	-2.5 to 2.5	Pass
				-10	3.85	-5.651	-0.0079	-2.5 to 2.5	Pass
				0	3.85	-11.387	-0.0160	-2.5 to 2.5	Pass
				10	3.85	-15.092	-0.0212	-2.5 to 2.5	Pass
				30	3.85	-17.767	-0.0249	-2.5 to 2.5	Pass
				40	3.85	-21.214	-0.0297	-2.5 to 2.5	Pass
50	3.85	-25.477	-0.0357	-2.5 to 2.5	Pass				
16QAM	706.5	25	0	20	3.27	33.646	0.0476	-2.5 to 2.5	Pass
					3.85	28.367	0.0402	-2.5 to 2.5	Pass
					4.43	22.473	0.0318	-2.5 to 2.5	Pass
				-30	3.85	21.729	0.0308	-2.5 to 2.5	Pass
				-20	3.85	19.870	0.0281	-2.5 to 2.5	Pass
				-10	3.85	21.501	0.0304	-2.5 to 2.5	Pass
				0	3.85	23.975	0.0339	-2.5 to 2.5	Pass
				10	3.85	27.022	0.0382	-2.5 to 2.5	Pass
				30	3.85	29.626	0.0419	-2.5 to 2.5	Pass
				40	3.85	31.857	0.0451	-2.5 to 2.5	Pass
				50	3.85	32.659	0.0462	-2.5 to 2.5	Pass
	710	25	0	20	3.27	-4.234	-0.0060	-2.5 to 2.5	Pass
					3.85	-28.367	-0.0400	-2.5 to 2.5	Pass
					4.43	-46.992	-0.0662	-2.5 to 2.5	Pass
				-30	3.85	-12.445	-0.0175	-2.5 to 2.5	Pass
				-20	3.85	-23.890	-0.0336	-2.5 to 2.5	Pass
				-10	3.85	-34.618	-0.0488	-2.5 to 2.5	Pass
				0	3.85	-38.481	-0.0542	-2.5 to 2.5	Pass
				10	3.85	-45.075	-0.0635	-2.5 to 2.5	Pass
				30	3.85	-0.887	-0.0012	-2.5 to 2.5	Pass
				40	3.85	-21.558	-0.0304	-2.5 to 2.5	Pass
				50	3.85	-45.390	-0.0639	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-26.221	-0.0367	-2.5 to 2.5	Pass
					3.85	-33.402	-0.0468	-2.5 to 2.5	Pass
					4.43	-39.811	-0.0558	-2.5 to 2.5	Pass
				-30	3.85	-42.257	-0.0592	-2.5 to 2.5	Pass

				-20	3.85	-1.373	-0.0019	-2.5 to 2.5	Pass
				-10	3.85	-1.144	-0.0016	-2.5 to 2.5	Pass
				0	3.85	-4.835	-0.0068	-2.5 to 2.5	Pass
				10	3.85	-6.037	-0.0085	-2.5 to 2.5	Pass
				30	3.85	-7.725	-0.0108	-2.5 to 2.5	Pass
				40	3.85	-7.782	-0.0109	-2.5 to 2.5	Pass
				50	3.85	-9.398	-0.0132	-2.5 to 2.5	Pass

2.1.2 B17_10MHz

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	-11.444	-0.0161	-2.5 to 2.5	Pass
					3.85	-17.123	-0.0242	-2.5 to 2.5	Pass
					4.43	-2.804	-0.0040	-2.5 to 2.5	Pass
				-30	3.85	15.621	0.0220	-2.5 to 2.5	Pass
				-20	3.85	35.577	0.0502	-2.5 to 2.5	Pass
				-10	3.85	4.363	0.0062	-2.5 to 2.5	Pass
				0	3.85	19.941	0.0281	-2.5 to 2.5	Pass
				10	3.85	33.789	0.0477	-2.5 to 2.5	Pass
				30	3.85	46.849	0.0661	-2.5 to 2.5	Pass
				40	3.85	5.879	0.0083	-2.5 to 2.5	Pass
				50	3.85	17.796	0.0251	-2.5 to 2.5	Pass
	710	50	0	20	3.27	-18.740	-0.0264	-2.5 to 2.5	Pass
					3.85	-5.765	-0.0081	-2.5 to 2.5	Pass
					4.43	13.189	0.0186	-2.5 to 2.5	Pass
				-30	3.85	23.675	0.0333	-2.5 to 2.5	Pass
				-20	3.85	32.716	0.0461	-2.5 to 2.5	Pass
				-10	3.85	35.663	0.0502	-2.5 to 2.5	Pass
				0	3.85	39.840	0.0561	-2.5 to 2.5	Pass
				10	3.85	10.571	0.0149	-2.5 to 2.5	Pass
				30	3.85	-0.644	-0.0009	-2.5 to 2.5	Pass
				40	3.85	1.831	0.0026	-2.5 to 2.5	Pass
				50	3.85	6.752	0.0095	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-21.029	-0.0296	-2.5 to 2.5	Pass
					3.85	-7.639	-0.0107	-2.5 to 2.5	Pass
					4.43	4.764	0.0067	-2.5 to 2.5	Pass
				-30	3.85	14.749	0.0207	-2.5 to 2.5	Pass
				-20	3.85	20.514	0.0289	-2.5 to 2.5	Pass
				-10	3.85	24.590	0.0346	-2.5 to 2.5	Pass
				0	3.85	27.323	0.0384	-2.5 to 2.5	Pass
				10	3.85	28.195	0.0397	-2.5 to 2.5	Pass
				30	3.85	31.557	0.0444	-2.5 to 2.5	Pass
				40	3.85	36.864	0.0518	-2.5 to 2.5	Pass
				50	3.85	37.665	0.0530	-2.5 to 2.5	Pass
16QAM	709	50	0	20	3.27	25.020	0.0353	-2.5 to 2.5	Pass
					3.85	15.893	0.0224	-2.5 to 2.5	Pass
					4.43	10.500	0.0148	-2.5 to 2.5	Pass
				-30	3.85	8.726	0.0123	-2.5 to 2.5	Pass
				-20	3.85	10.185	0.0144	-2.5 to 2.5	Pass
				-10	3.85	8.826	0.0124	-2.5 to 2.5	Pass
				0	3.85	11.029	0.0156	-2.5 to 2.5	Pass
				10	3.85	10.328	0.0146	-2.5 to 2.5	Pass
				30	3.85	11.544	0.0163	-2.5 to 2.5	Pass
				40	3.85	13.862	0.0196	-2.5 to 2.5	Pass
				50	3.85	16.136	0.0228	-2.5 to 2.5	Pass
	710	50	0	20	3.27	10.815	0.0152	-2.5 to 2.5	Pass

					3.85	-7.153	-0.0101	-2.5 to 2.5	Pass
					4.43	-17.624	-0.0248	-2.5 to 2.5	Pass
				-30	3.85	-22.631	-0.0319	-2.5 to 2.5	Pass
				-20	3.85	-27.795	-0.0391	-2.5 to 2.5	Pass
				-10	3.85	-28.753	-0.0405	-2.5 to 2.5	Pass
				0	3.85	-31.328	-0.0441	-2.5 to 2.5	Pass
				10	3.85	-36.135	-0.0509	-2.5 to 2.5	Pass
				30	3.85	-42.114	-0.0593	-2.5 to 2.5	Pass
				40	3.85	-46.234	-0.0651	-2.5 to 2.5	Pass
				50	3.85	-0.072	-0.0001	-2.5 to 2.5	Pass
	711	50	0	20	3.27	38.066	0.0535	-2.5 to 2.5	Pass
					3.85	21.629	0.0304	-2.5 to 2.5	Pass
					4.43	9.184	0.0129	-2.5 to 2.5	Pass
				-30	3.85	-0.730	-0.0010	-2.5 to 2.5	Pass
				-20	3.85	-5.150	-0.0072	-2.5 to 2.5	Pass
				-10	3.85	-10.400	-0.0146	-2.5 to 2.5	Pass
				0	3.85	-13.161	-0.0185	-2.5 to 2.5	Pass
				10	3.85	-17.281	-0.0243	-2.5 to 2.5	Pass
				30	3.85	-24.276	-0.0341	-2.5 to 2.5	Pass
				40	3.85	-30.956	-0.0435	-2.5 to 2.5	Pass
				50	3.85	-40.698	-0.0572	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B17_5MHz

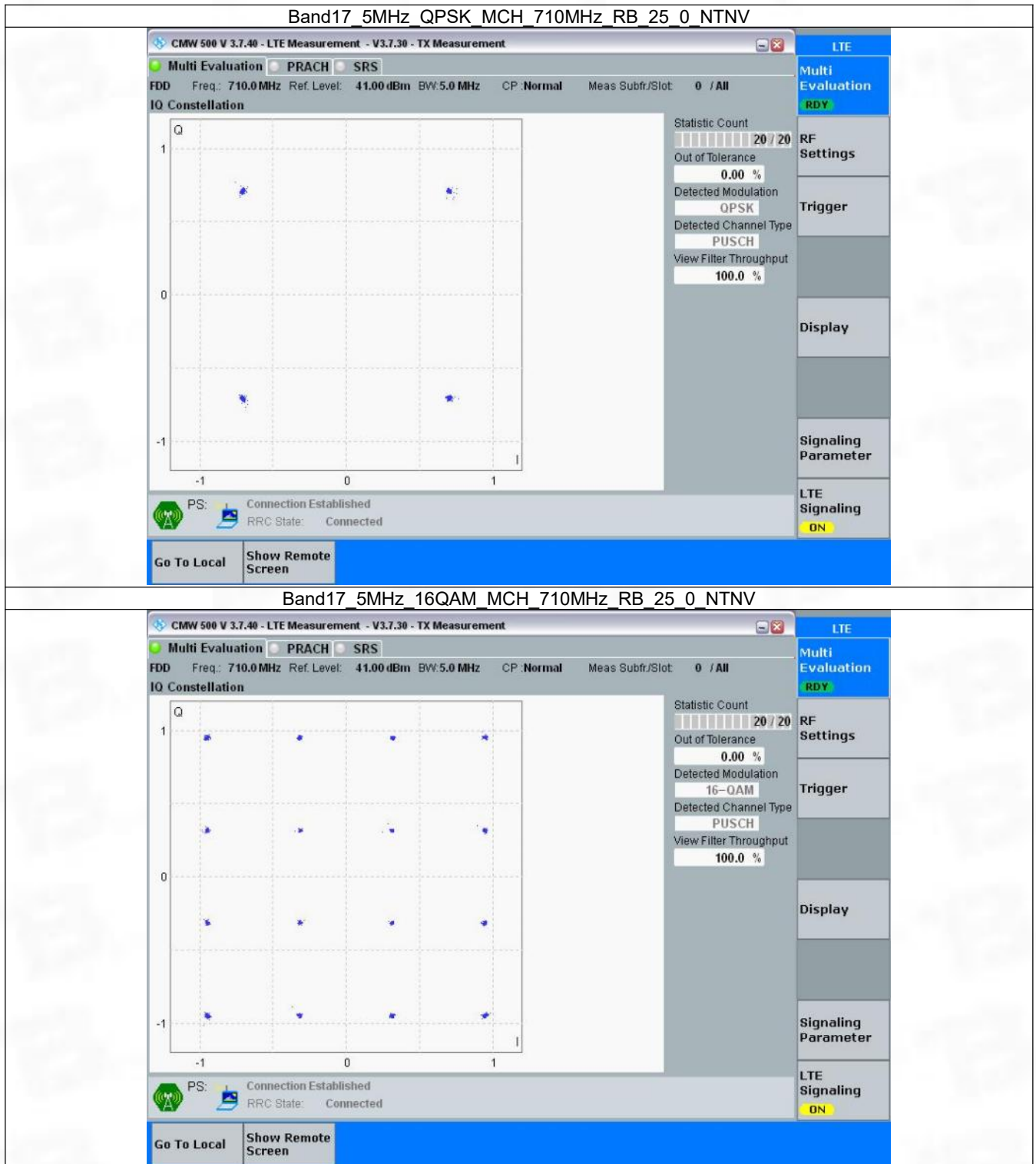
Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	710	25	0	Refer To Test Graph		Pass
16QAM	710	25	0	Refer To Test Graph		Pass

3.1.2 B17_10MHz

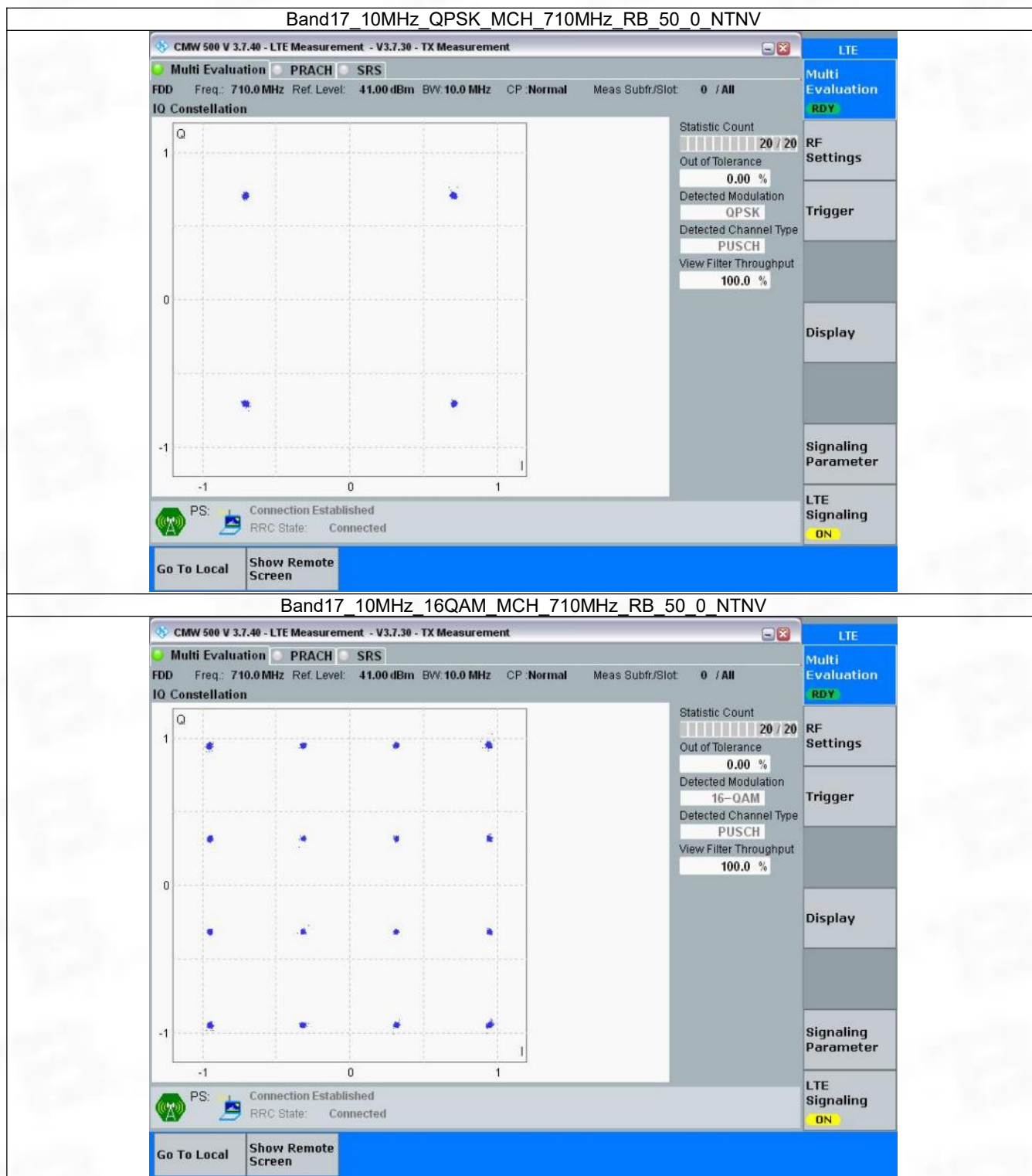
Band: 17 / Bandwidth: 10MHz / NTNv						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	710	50	0	Refer To Test Graph		Pass
16QAM	710	50	0	Refer To Test Graph		Pass

3.2 Test Graph

3.2.1 B17_5MHz



3.2.2 B17_10MHz



4. 99% & 26dB Bandwidth

4.1 Test Result

4.1.1 Band17_OBW

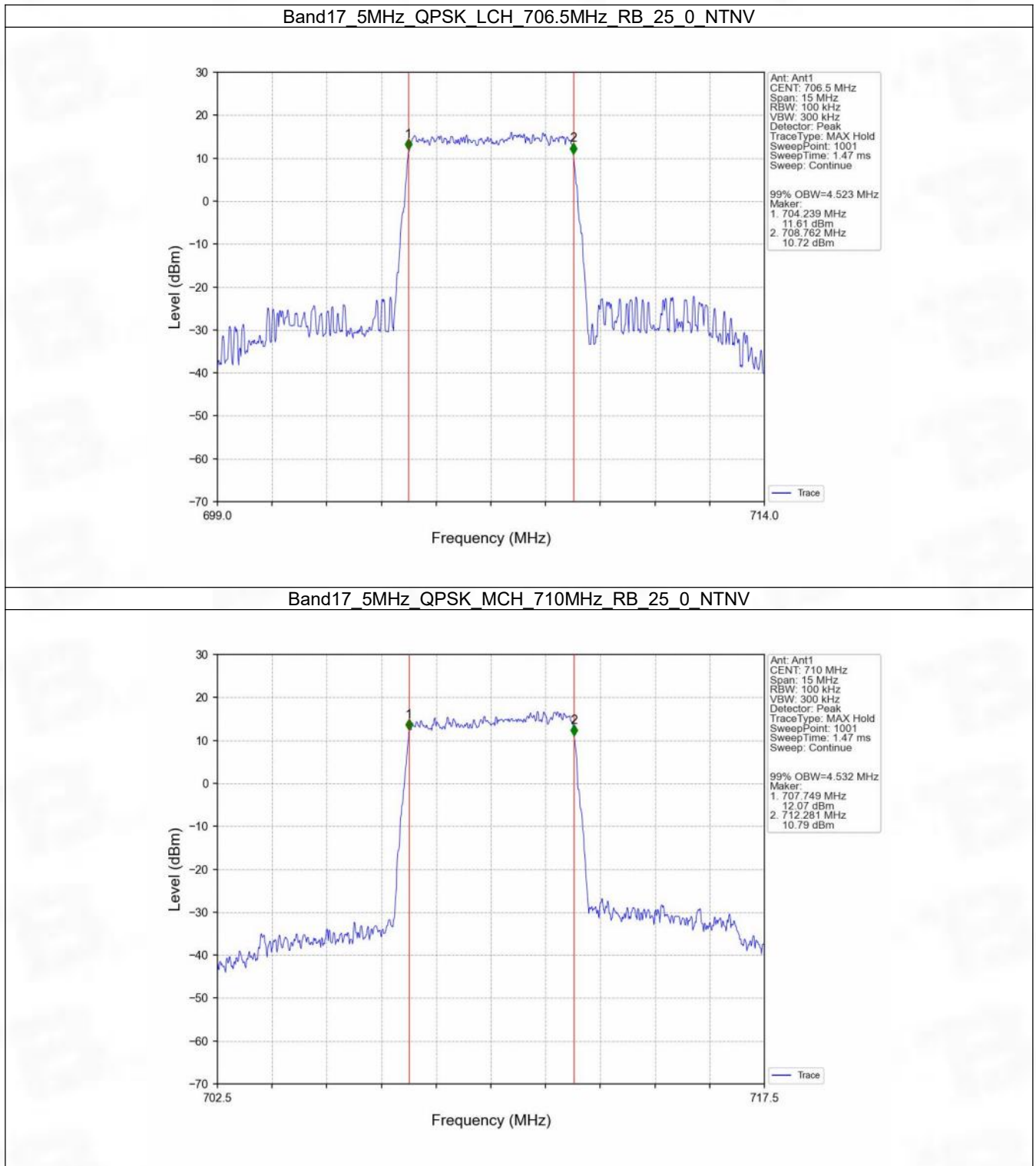
Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	4.523	/	Pass
		710	25	0	4.532	/	Pass
		713.5	25	0	4.506	/	Pass
	16QAM	706.5	25	0	4.532	/	Pass
		710	25	0	4.503	/	Pass
		713.5	25	0	4.532	/	Pass
10	QPSK	709	50	0	8.968	/	Pass
		710	50	0	8.943	/	Pass
		711	50	0	8.921	/	Pass
	16QAM	709	50	0	8.965	/	Pass
		710	50	0	8.934	/	Pass
		711	50	0	8.913	/	Pass

4.1.2 Band17_XDB

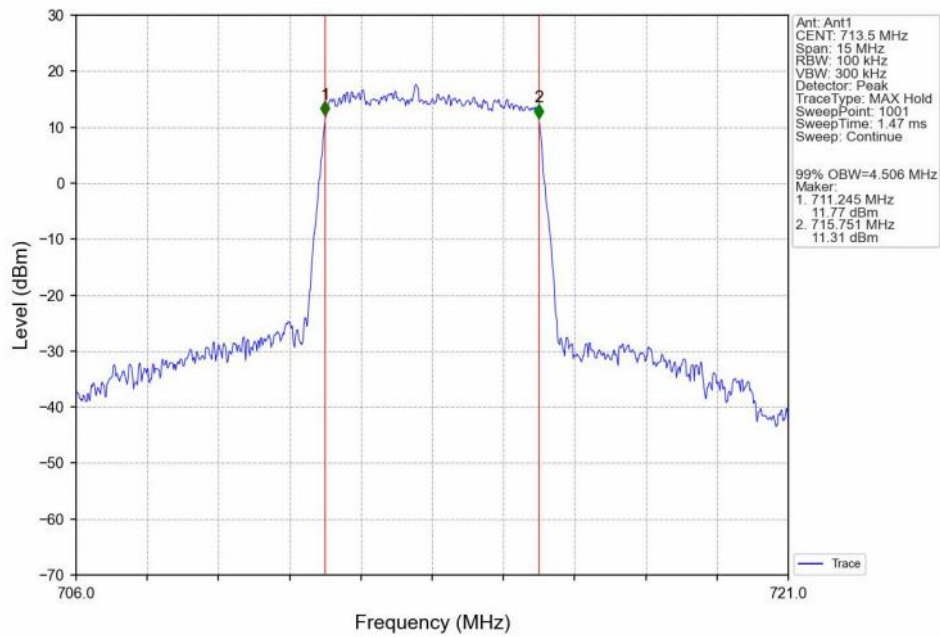
Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	5.007	/	Pass
		710	25	0	4.997	/	Pass
		713.5	25	0	4.945	/	Pass
	16QAM	706.5	25	0	5.013	/	Pass
		710	25	0	4.988	/	Pass
		713.5	25	0	4.993	/	Pass
10	QPSK	709	50	0	9.699	/	Pass
		710	50	0	9.681	/	Pass
		711	50	0	9.687	/	Pass
	16QAM	709	50	0	9.750	/	Pass
		710	50	0	9.670	/	Pass
		711	50	0	9.752	/	Pass

4.2 Test Graph

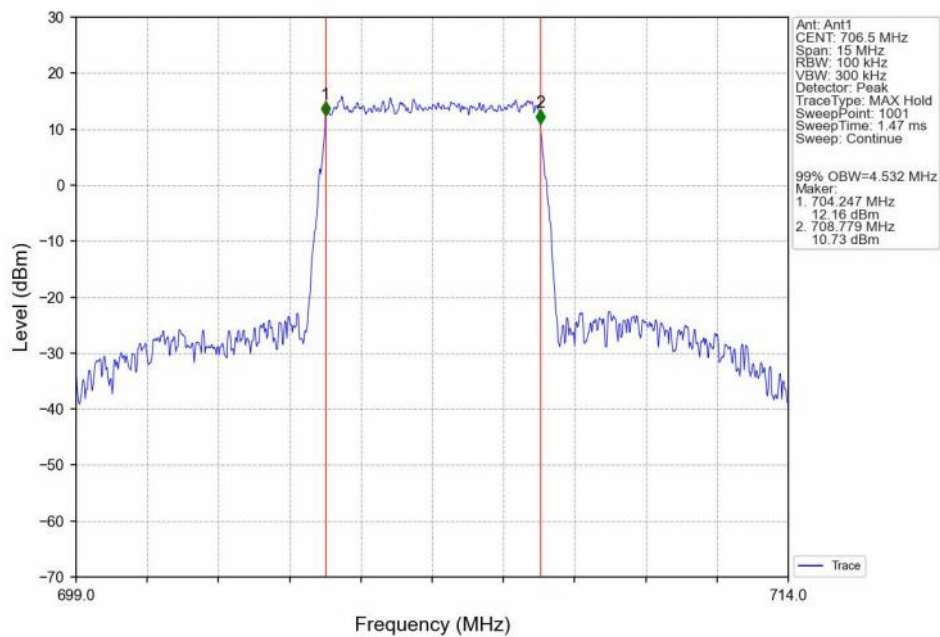
4.2.1 Band17_OBW



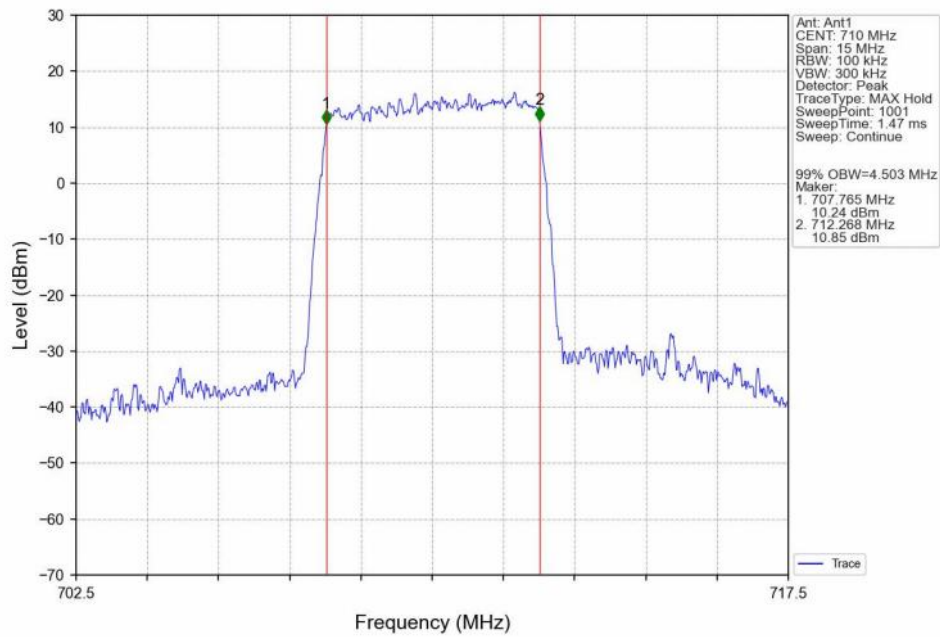
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



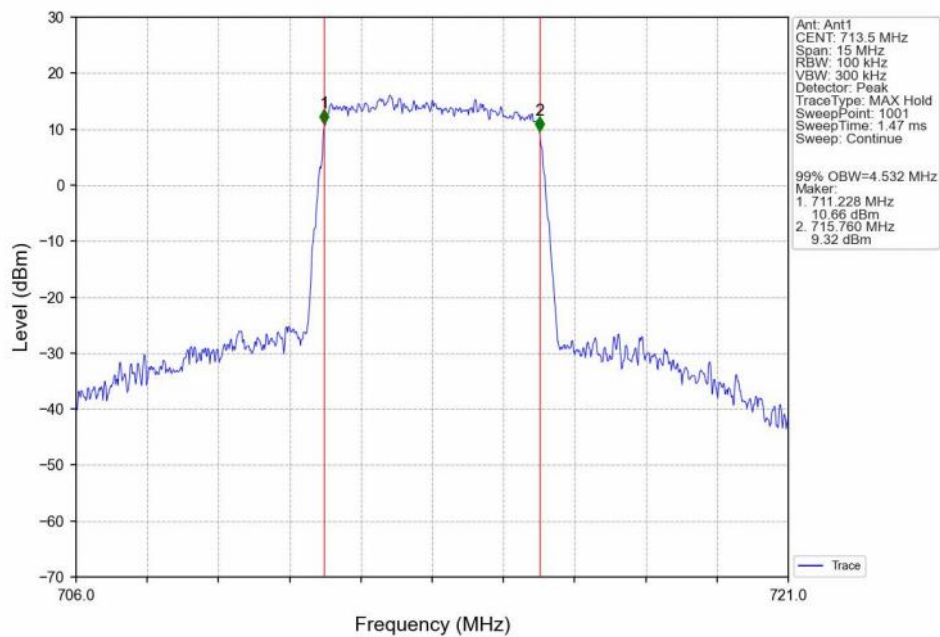
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



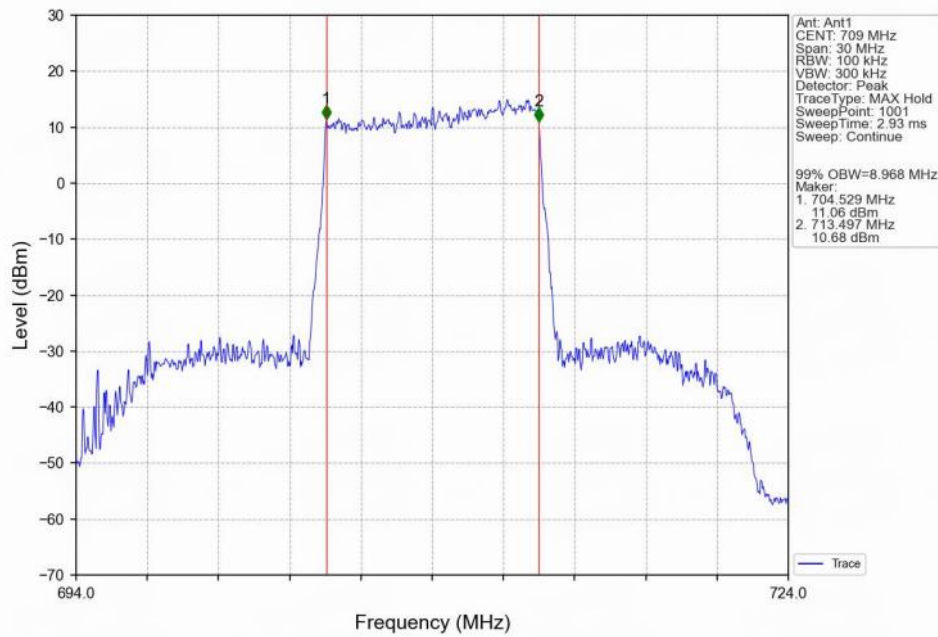
Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



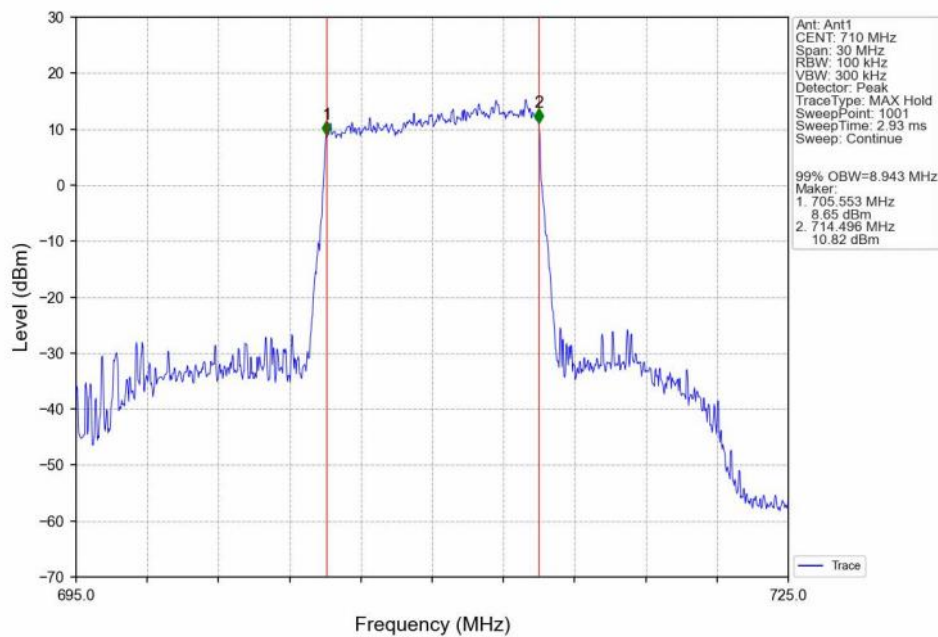
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



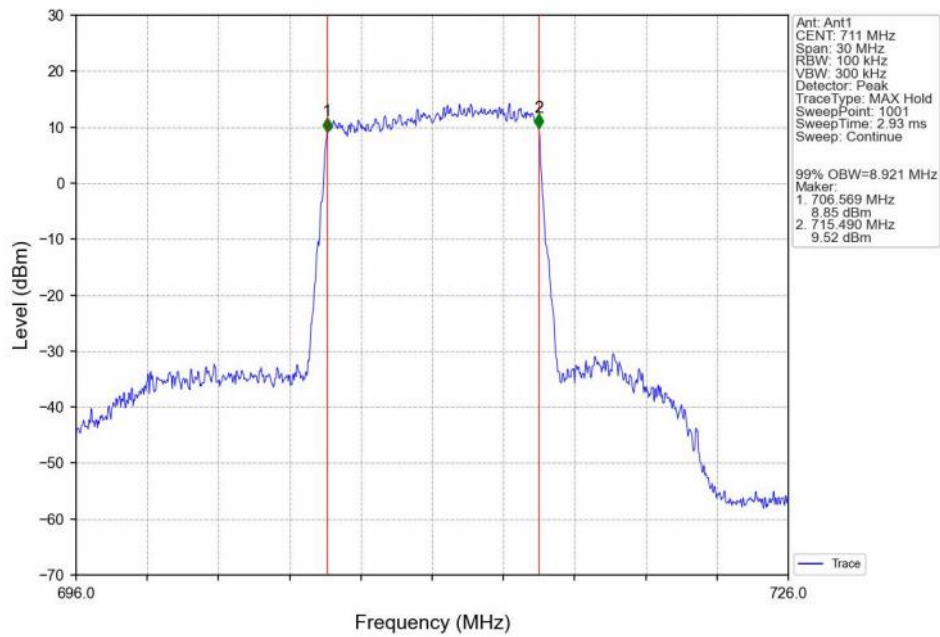
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



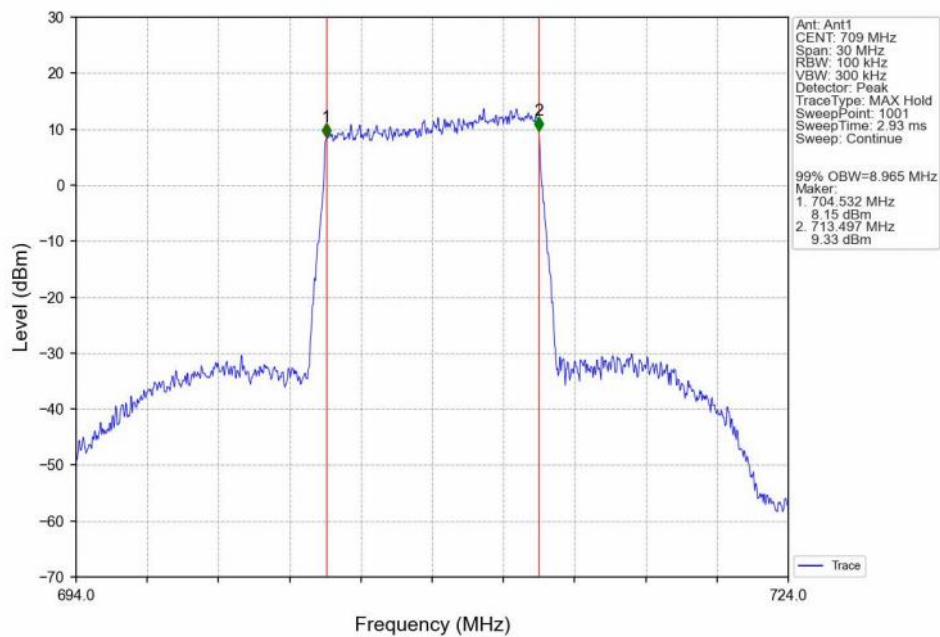
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



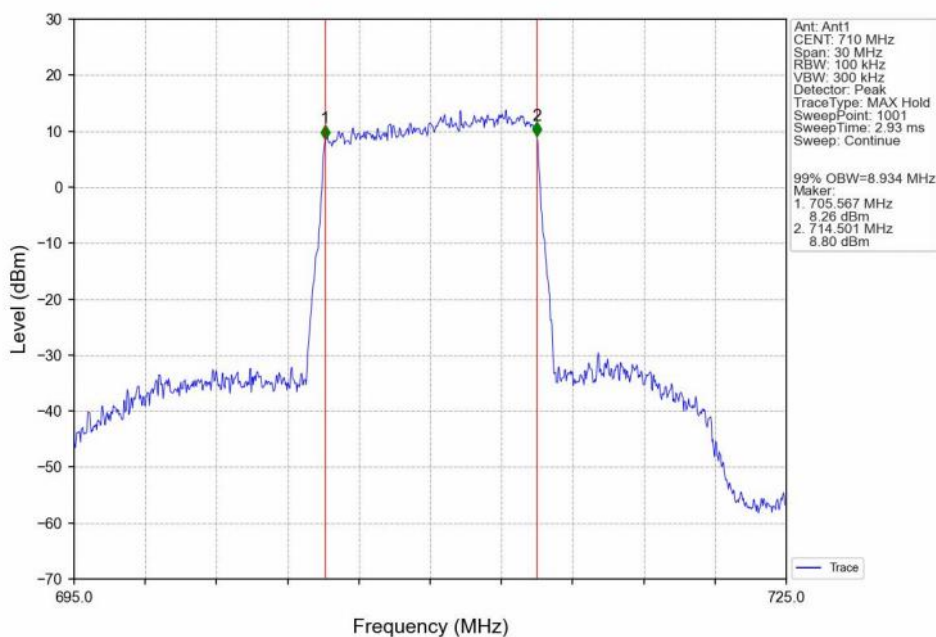
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



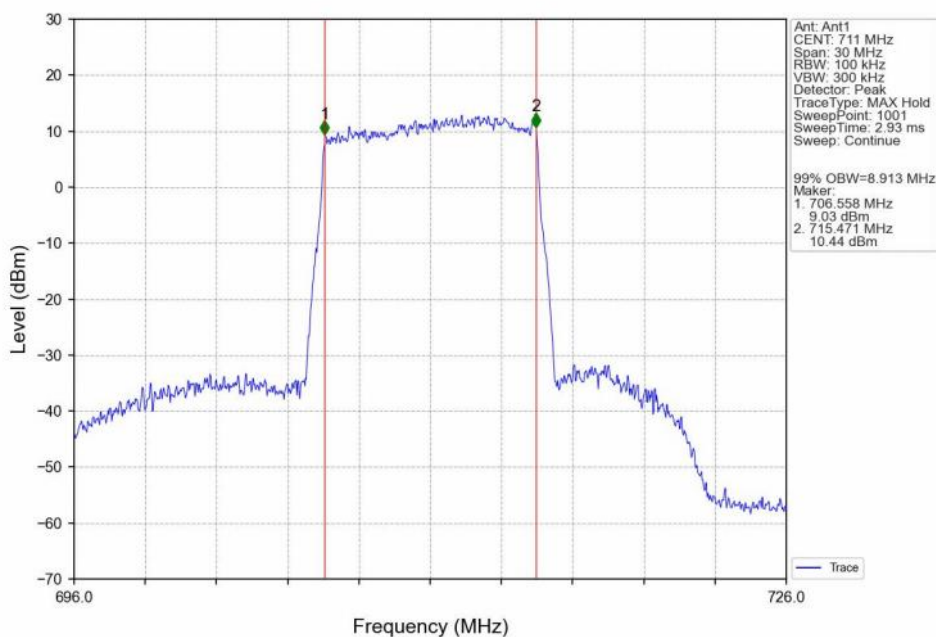
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



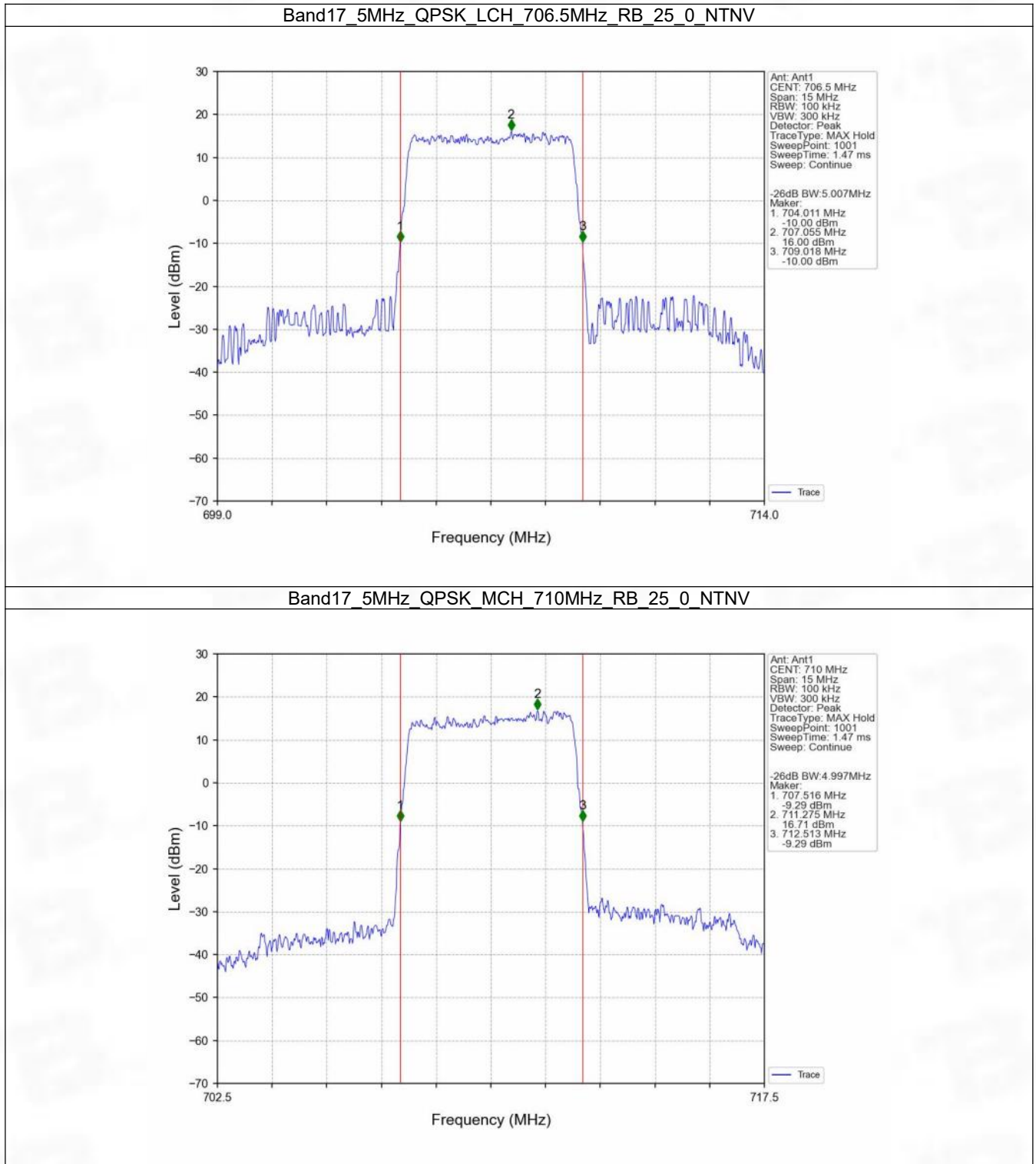
Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



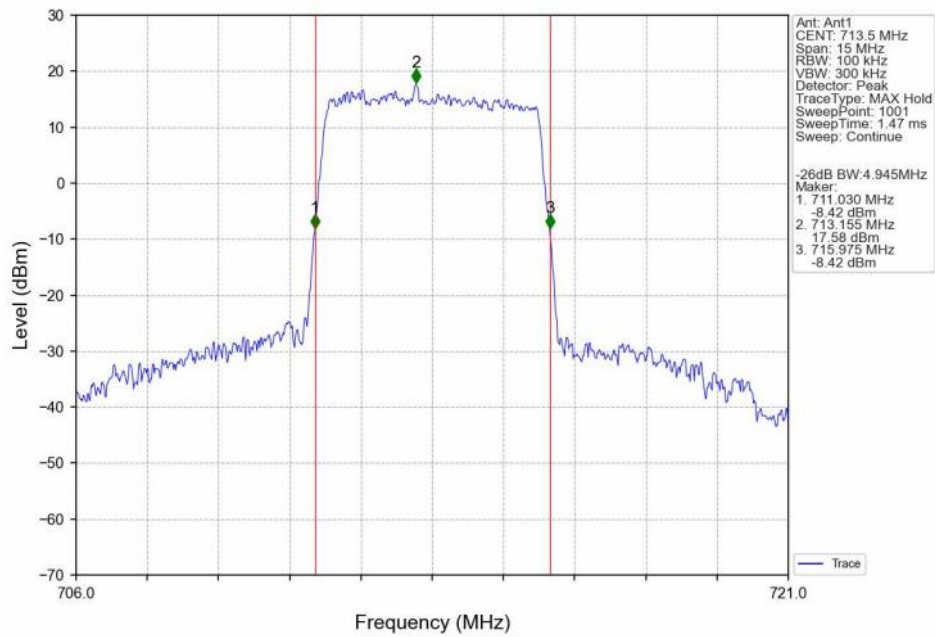
Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



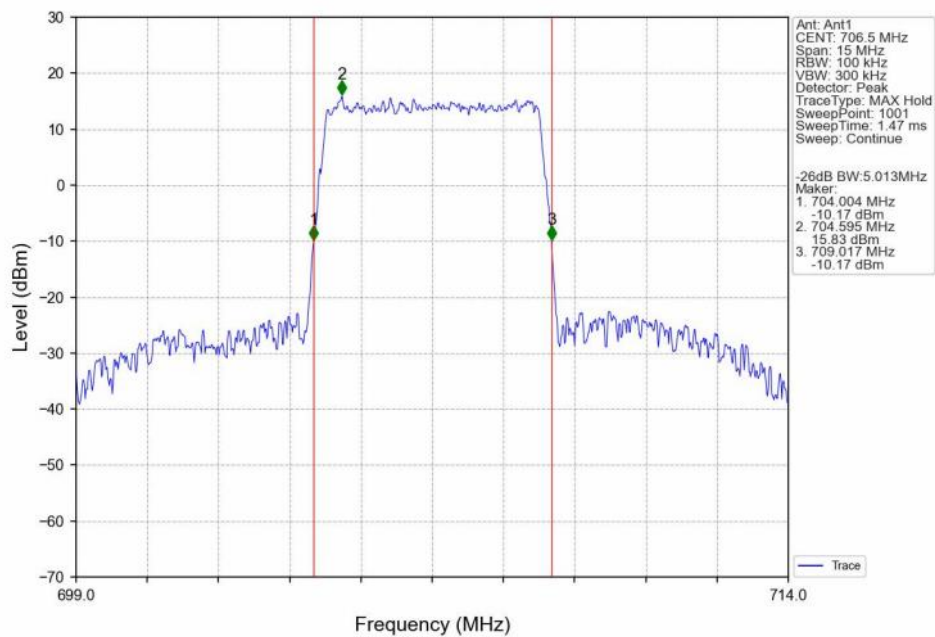
4.2.2 Band17_XDB



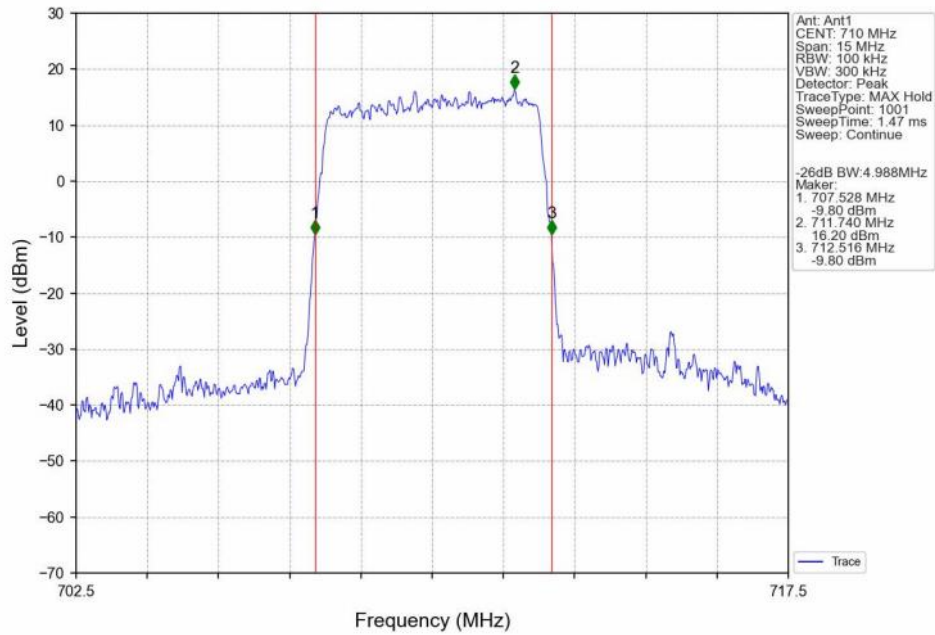
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



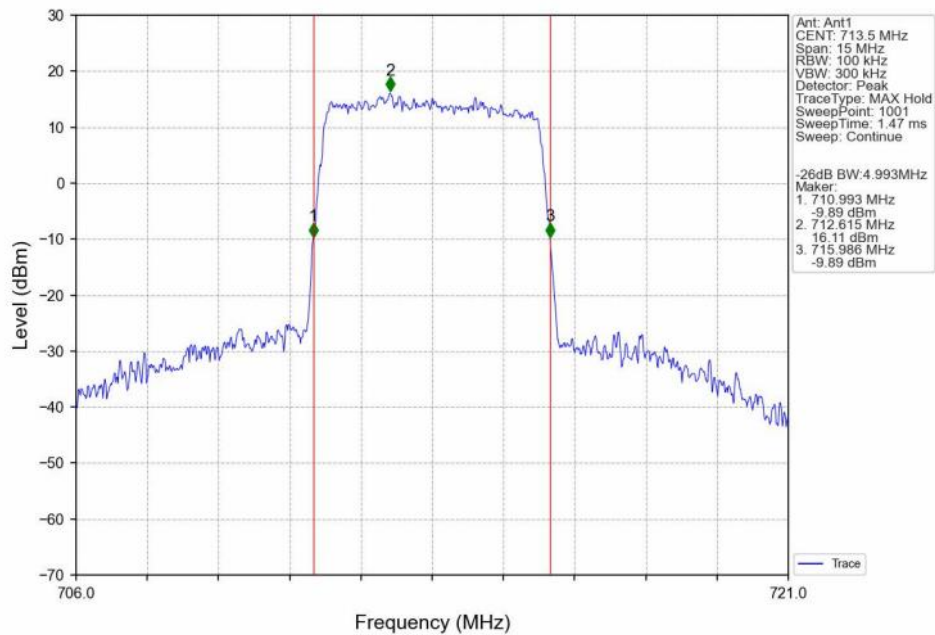
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



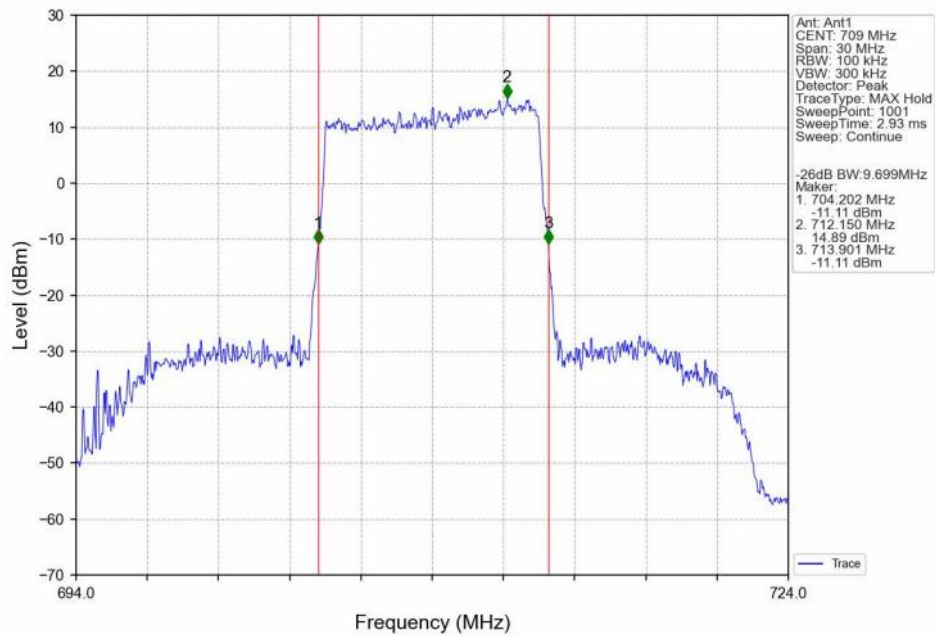
Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



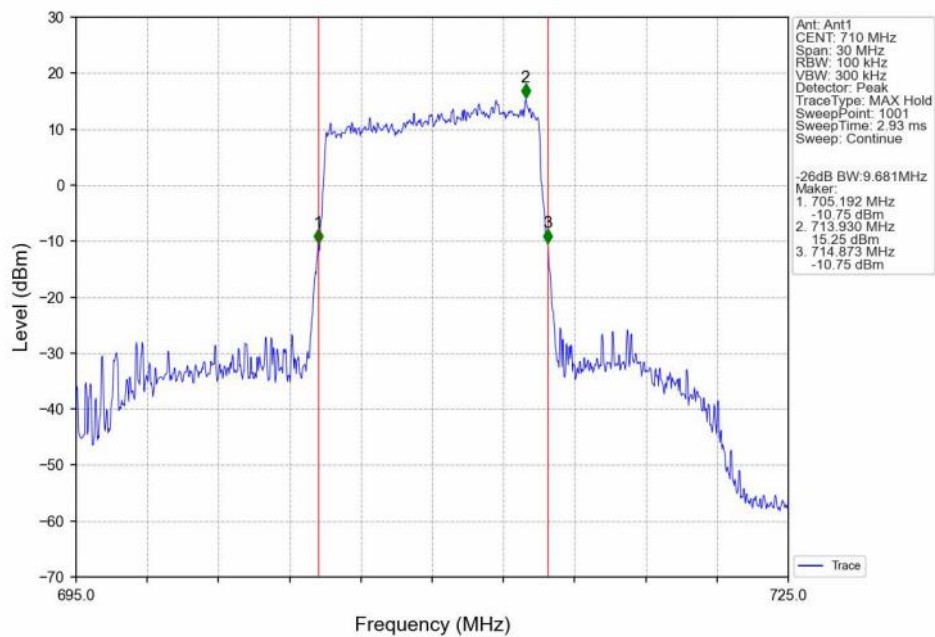
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



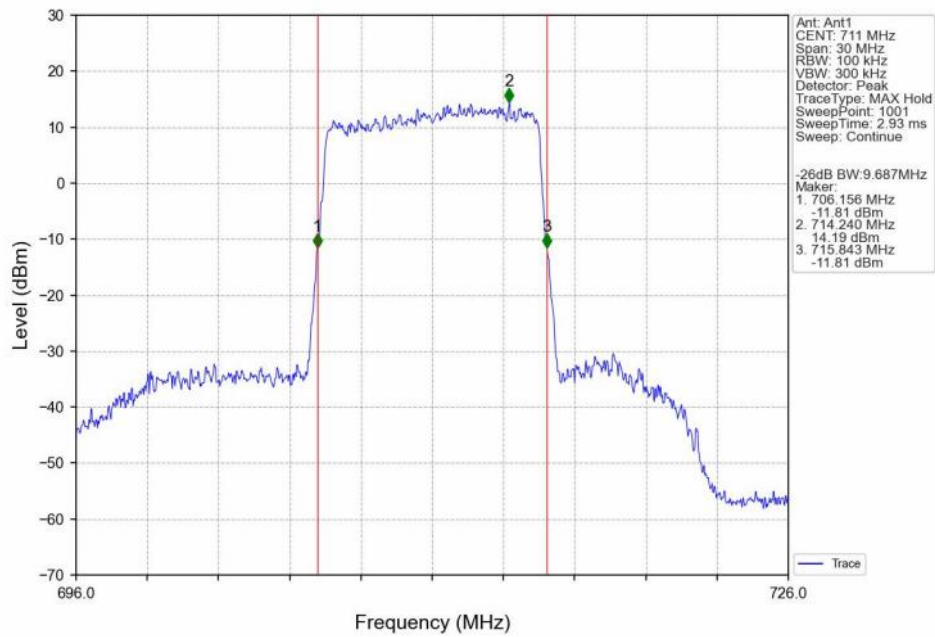
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



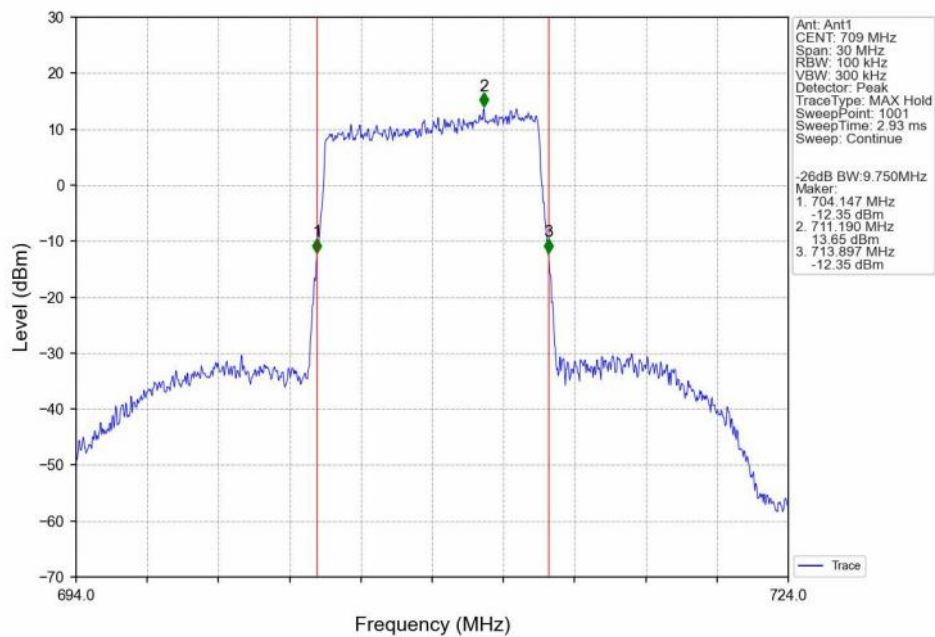
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



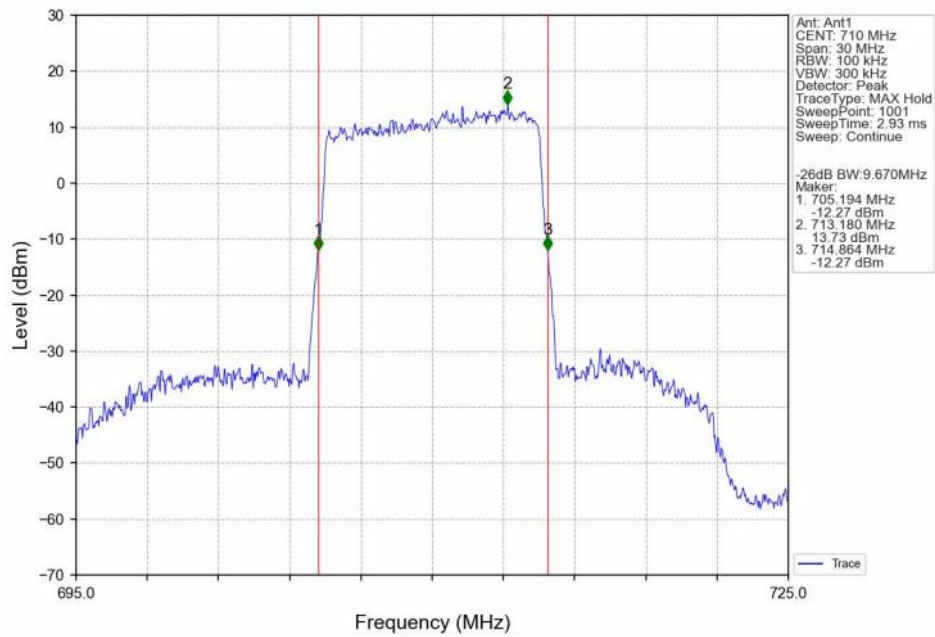
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



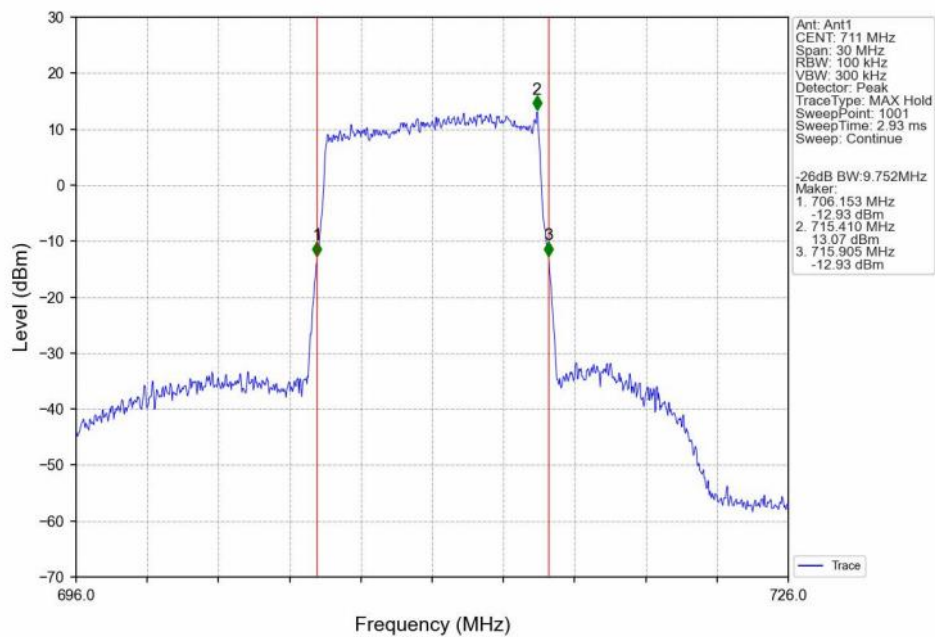
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



5. Peak-Average Ratio

5.1 Test Result

5.1.1 B17_5MHz

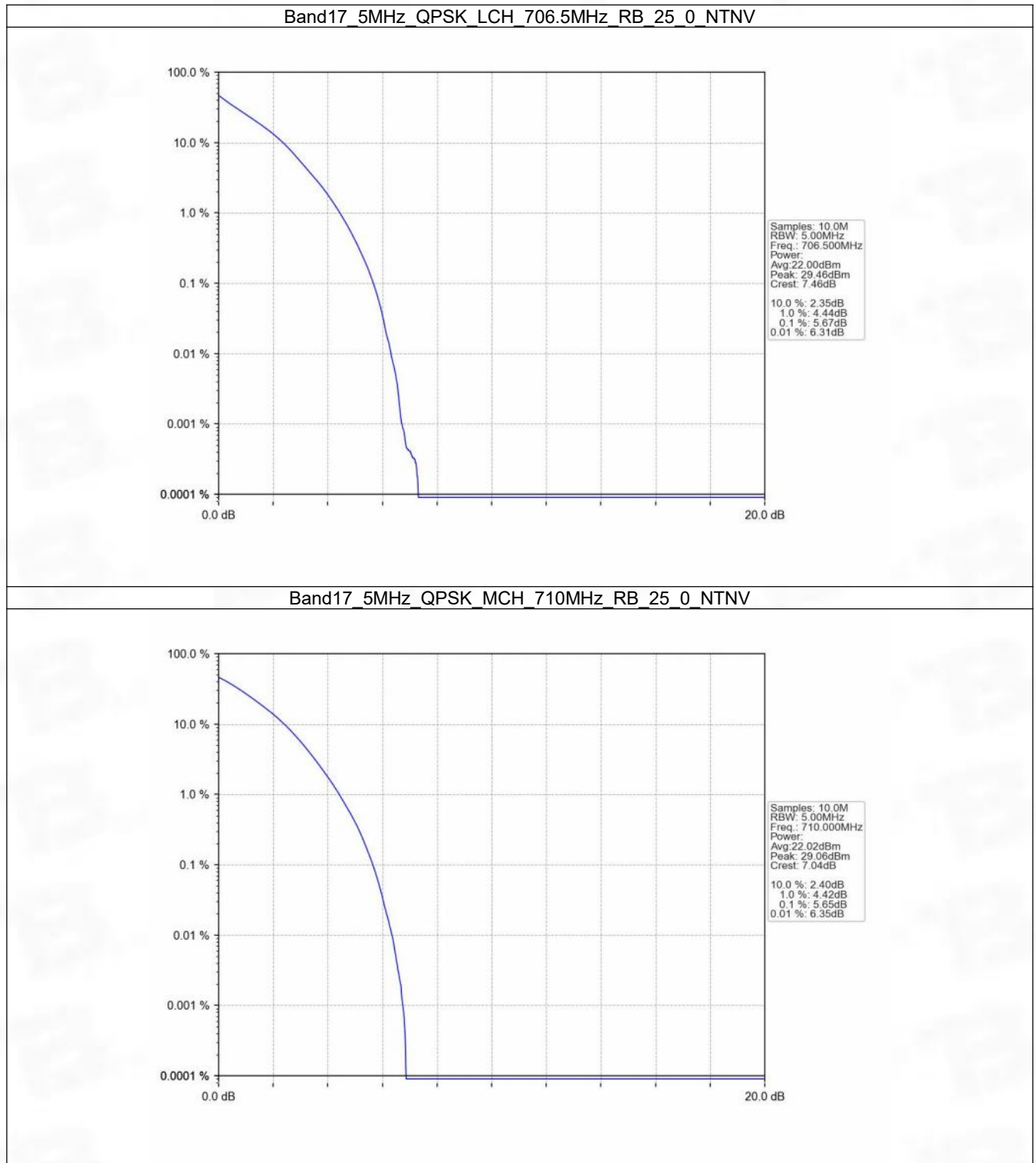
Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	25	0	5.67	≤ 13	Pass
	710	25	0	5.65	≤ 13	Pass
	713.5	25	0	5.46	≤ 13	Pass
16QAM	706.5	25	0	6.28	≤ 13	Pass
	710	25	0	6.30	≤ 13	Pass
	713.5	25	0	6.22	≤ 13	Pass

5.1.2 B17_10MHz

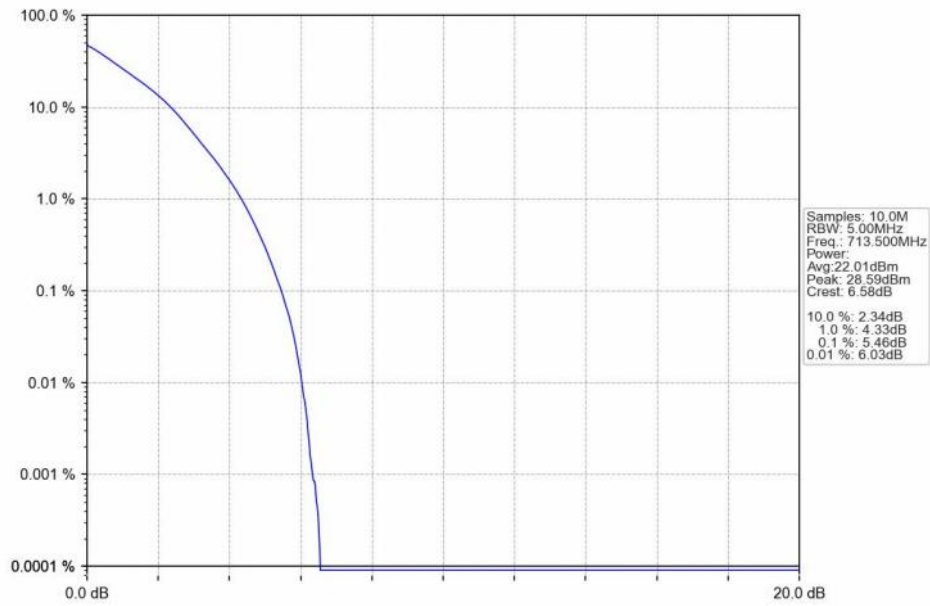
Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	709	50	0	5.70	≤ 13	Pass
	710	50	0	5.57	≤ 13	Pass
	711	50	0	5.48	≤ 13	Pass
16QAM	709	50	0	6.43	≤ 13	Pass
	710	50	0	6.34	≤ 13	Pass
	711	50	0	6.23	≤ 13	Pass

5.2 Test Graph

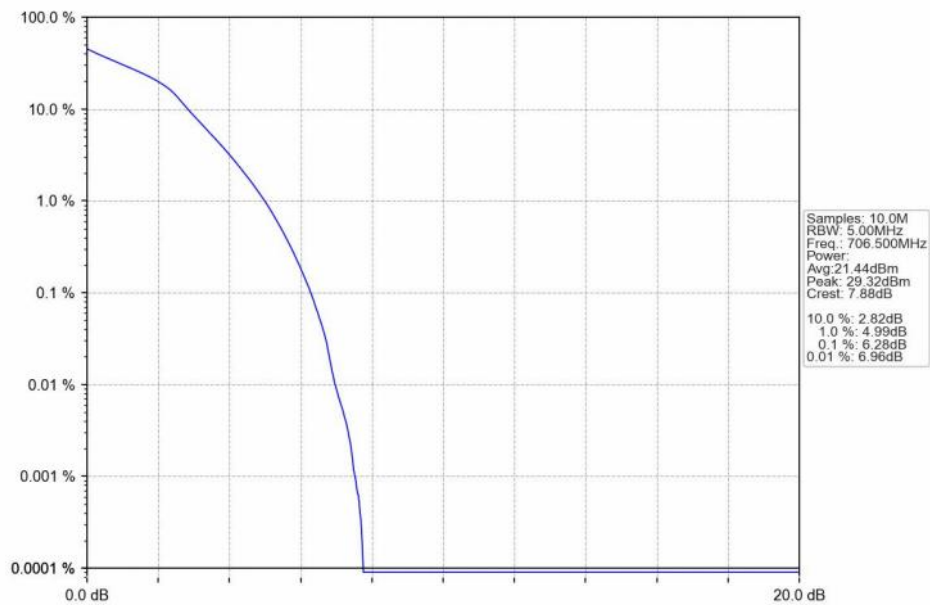
5.2.1 B17_5MHz



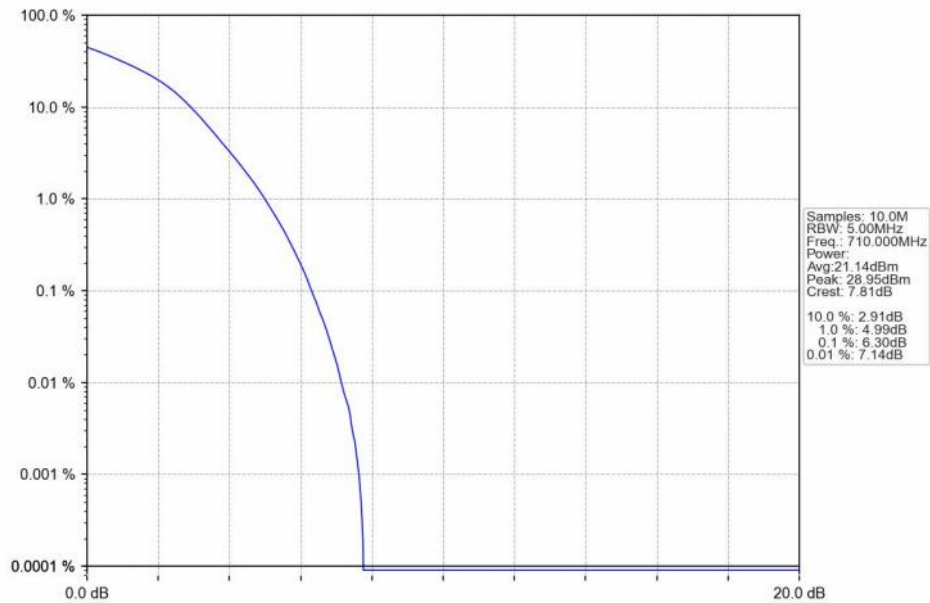
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



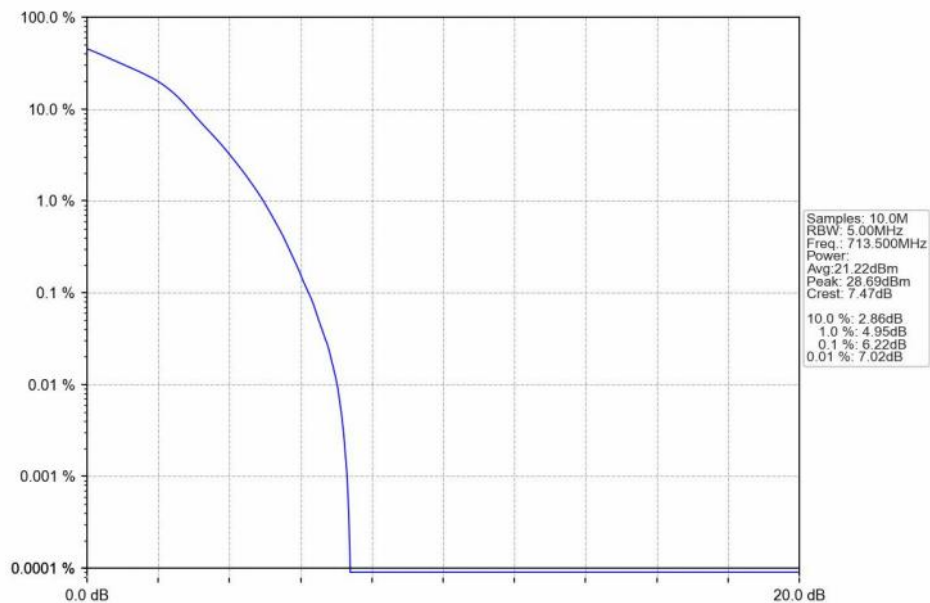
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



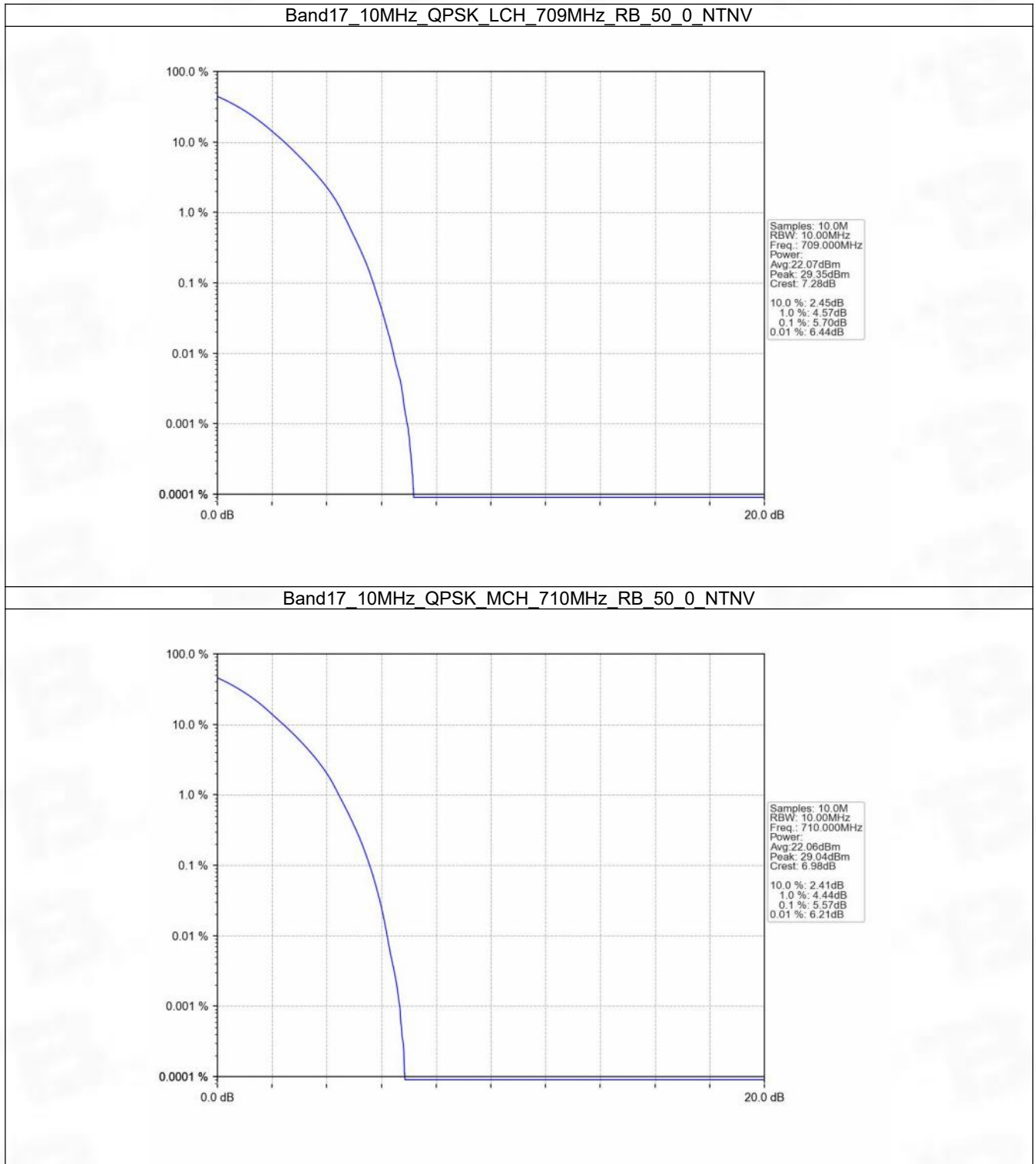
Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



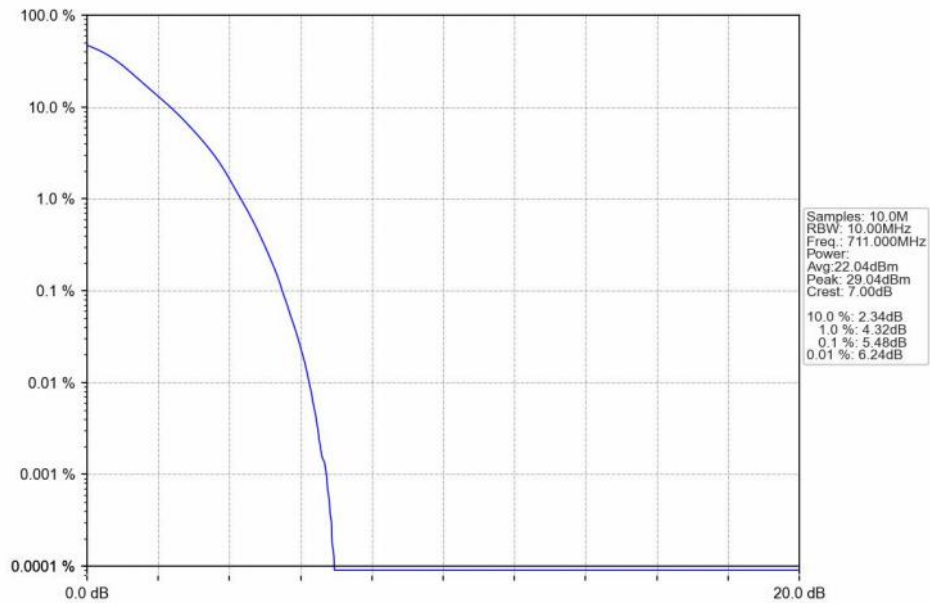
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



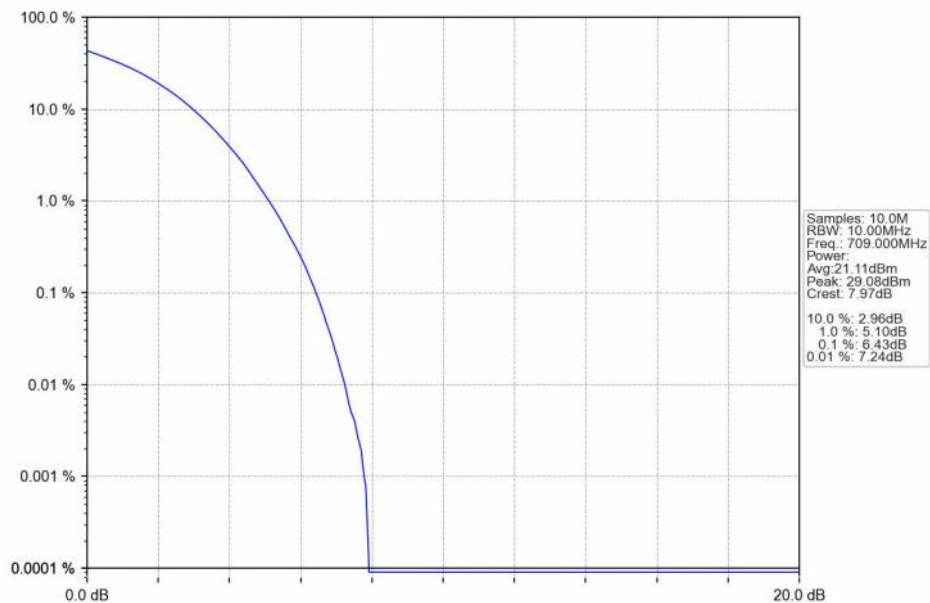
5.2.2 B17_10MHz



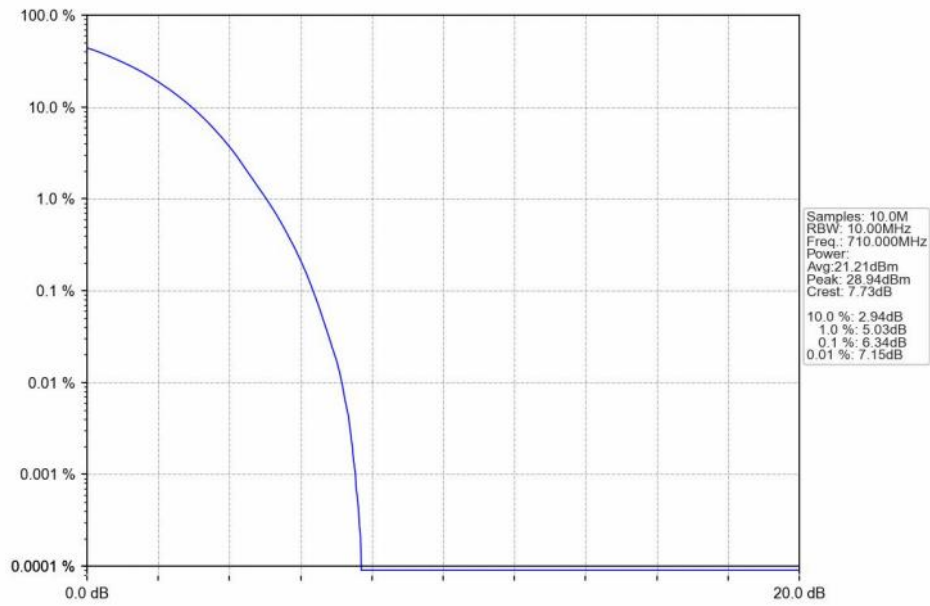
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



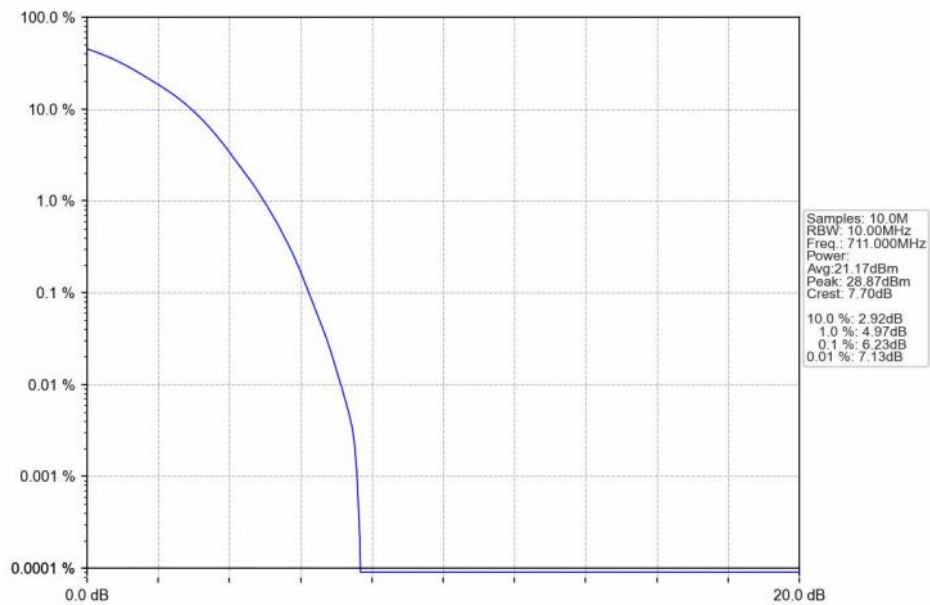
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



6. Spurious Emission

6.1 Test Result

6.1.1 B17_5MHz

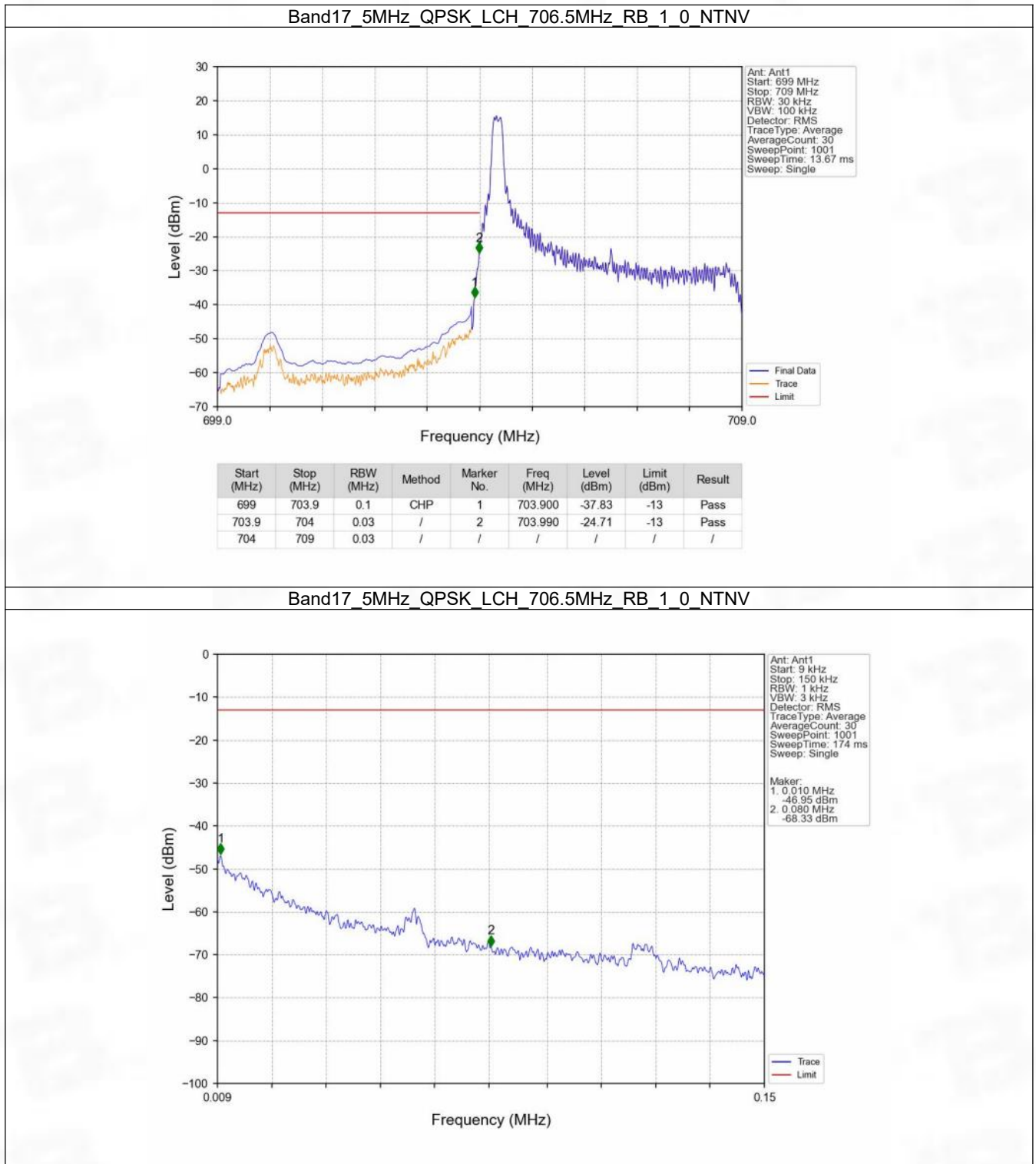
Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test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

6.1.2 B17_10MHz

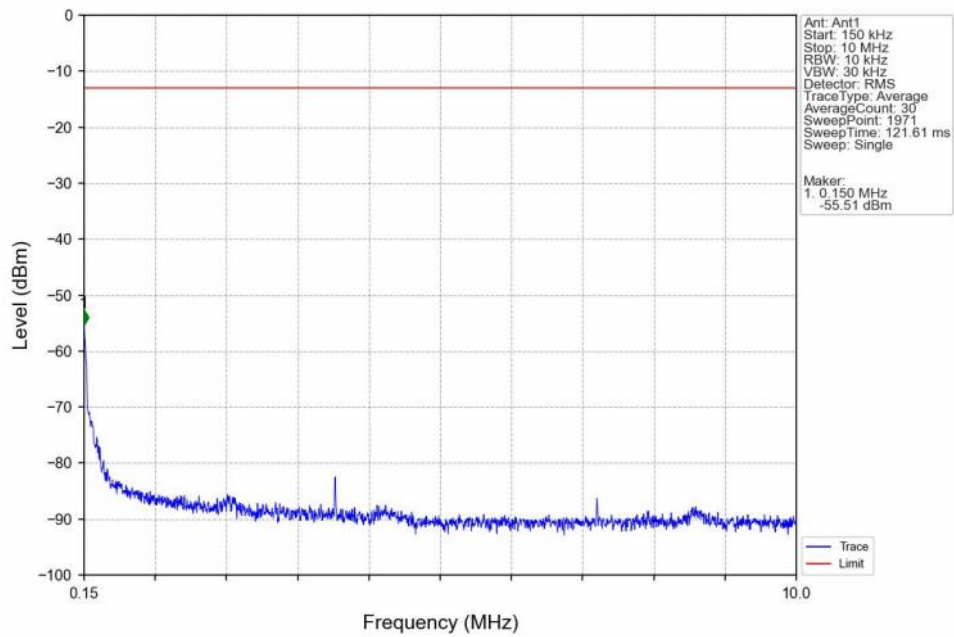
Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	709	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	709	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

6.2 Test Graph

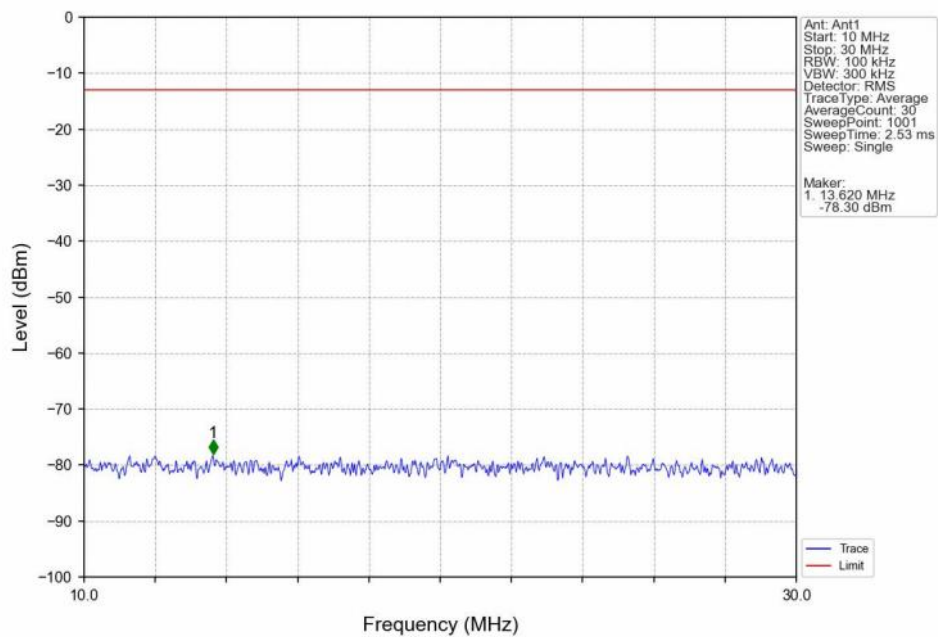
6.2.1 B17_5MHz



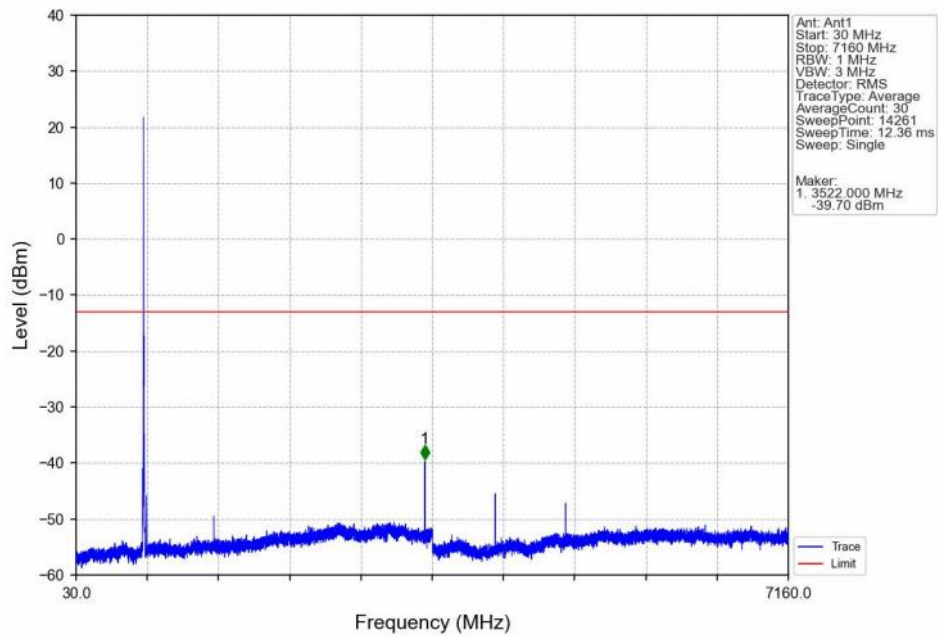
Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV



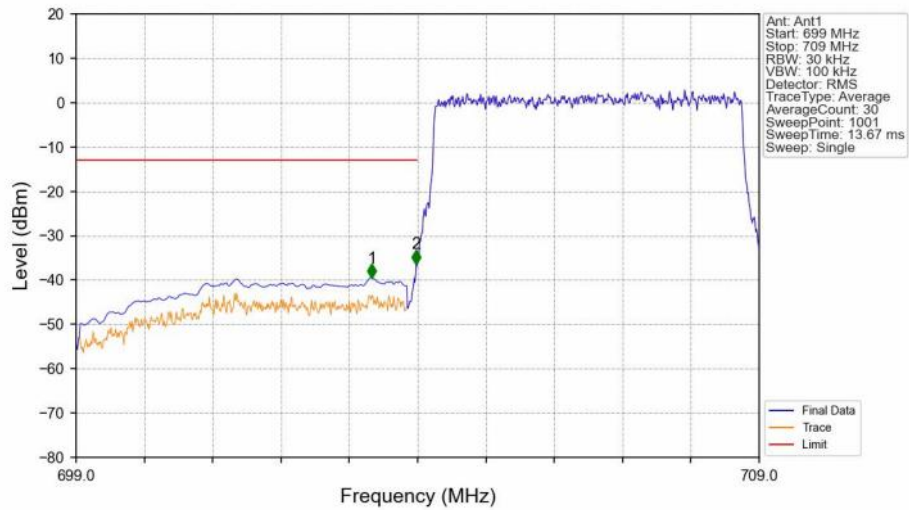
Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV



Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV

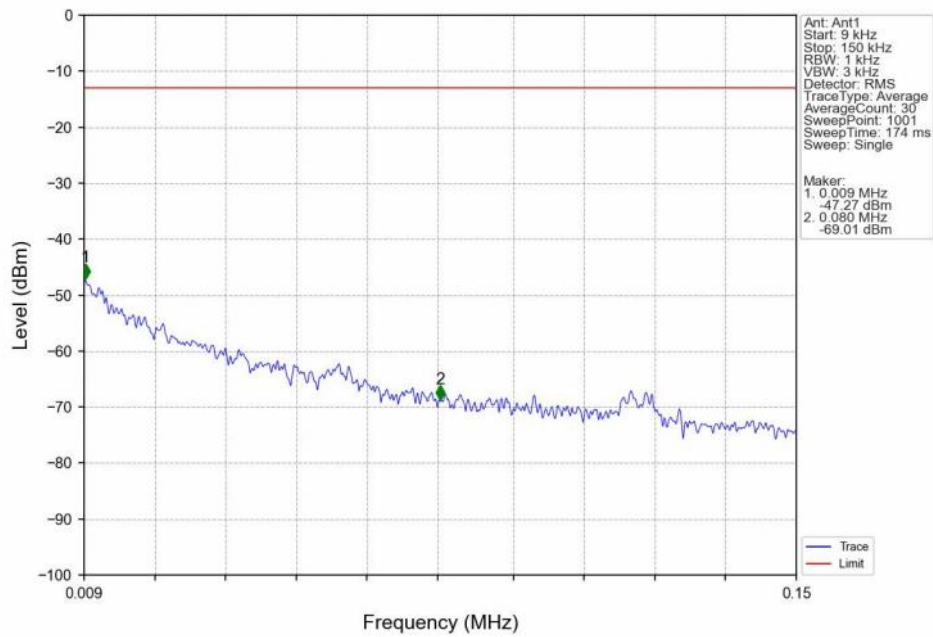


Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV

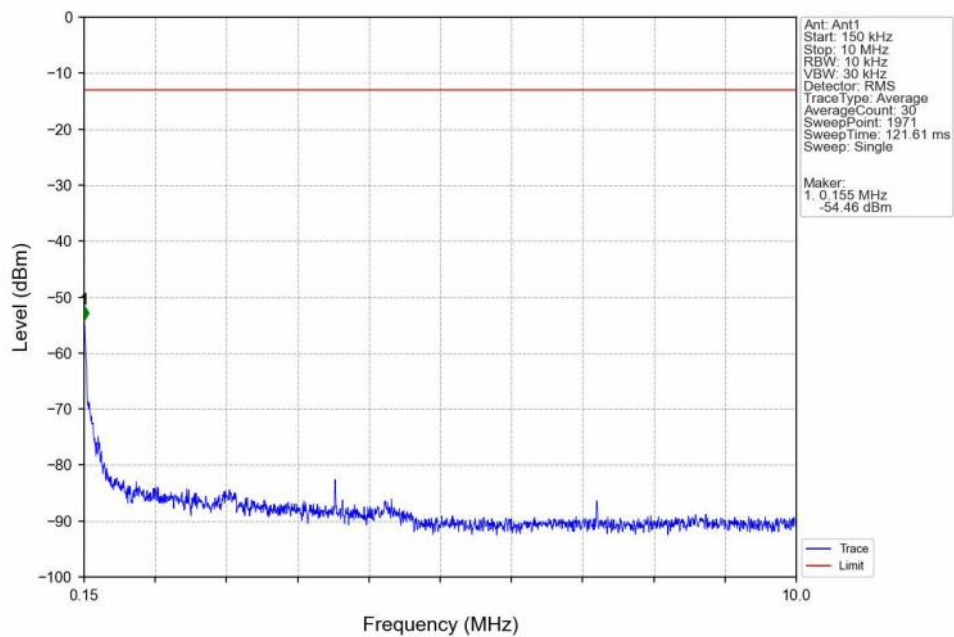


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.330	-39.44	-13	Pass
703.9	704	0.03	/	2	703.980	-36.32	-13	Pass
704	709	0.03	/	/	/	/	/	/

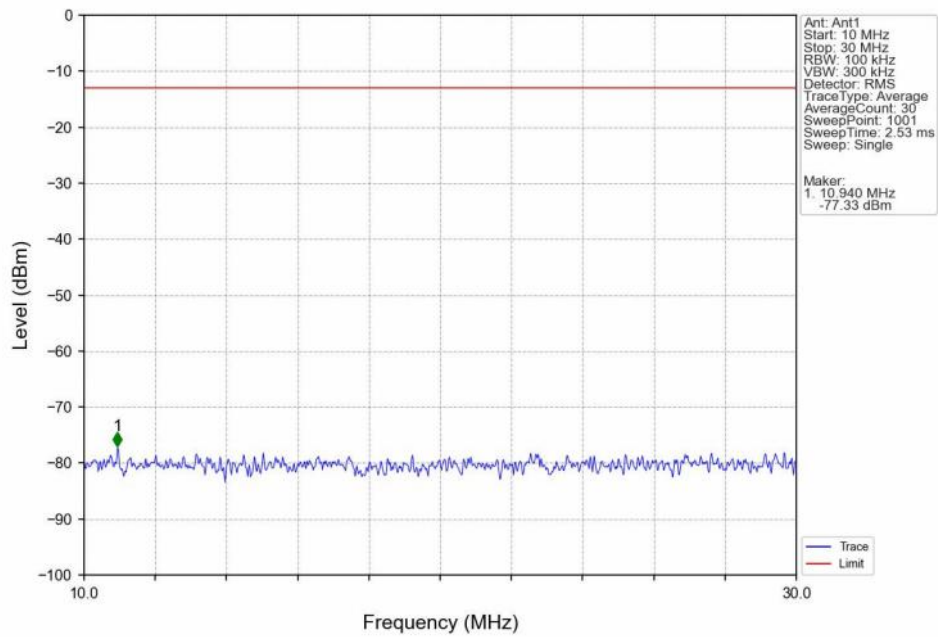
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



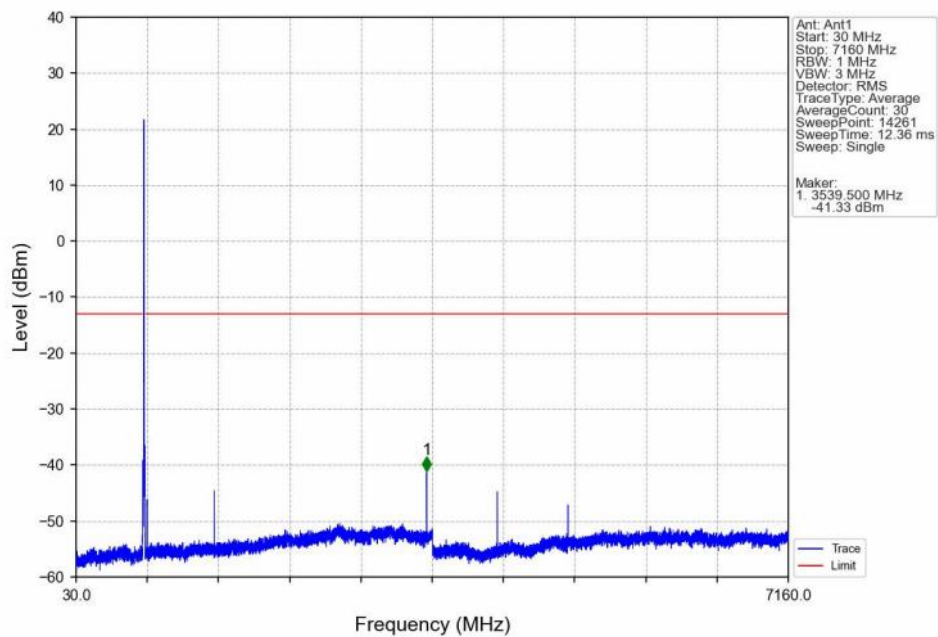
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



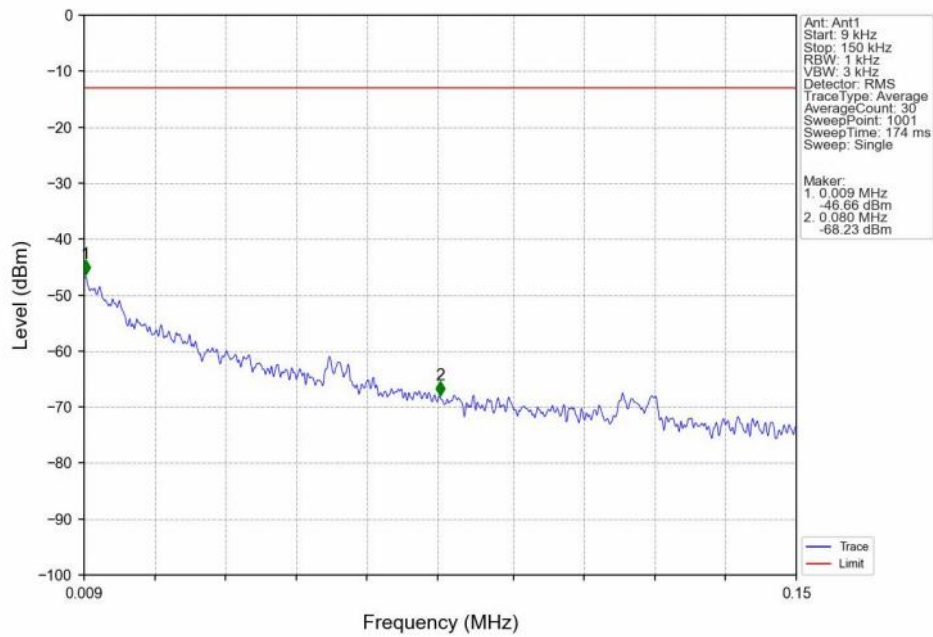
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



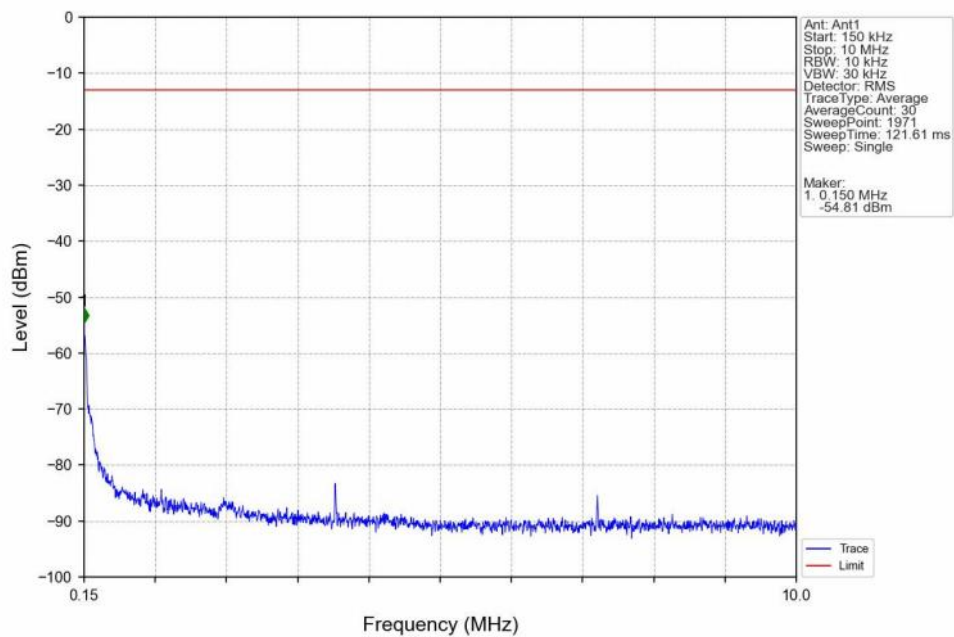
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



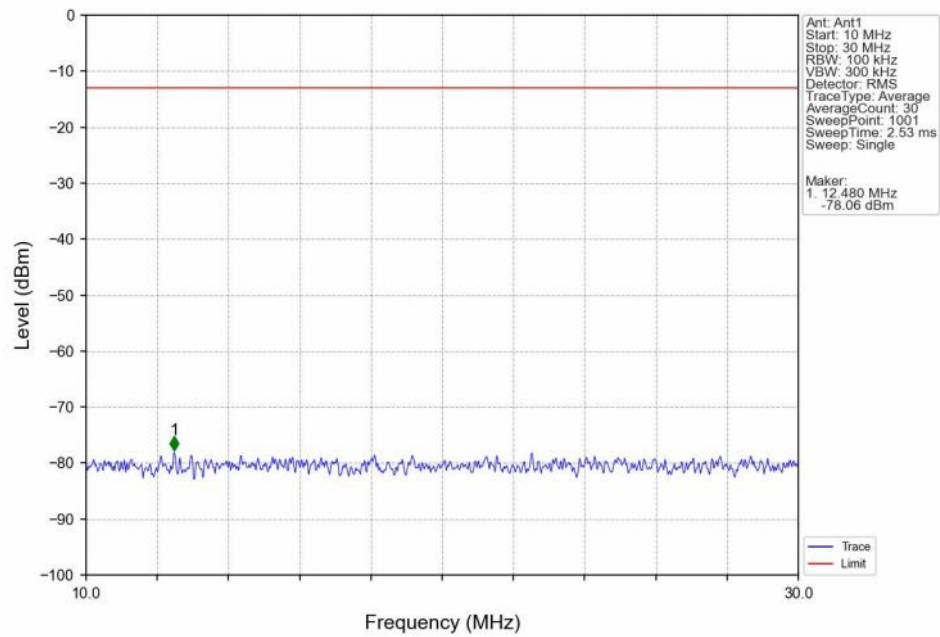
Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



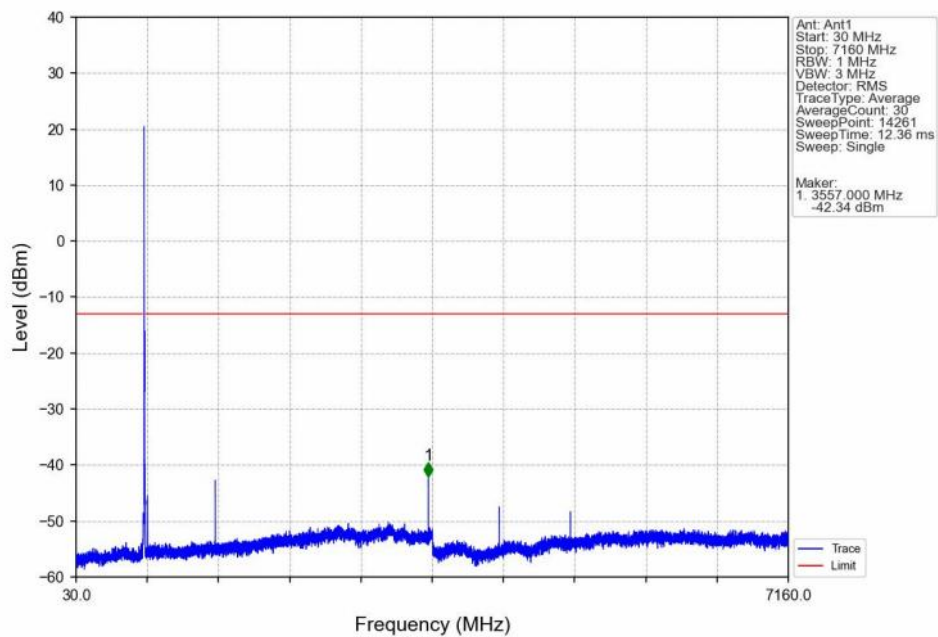
Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



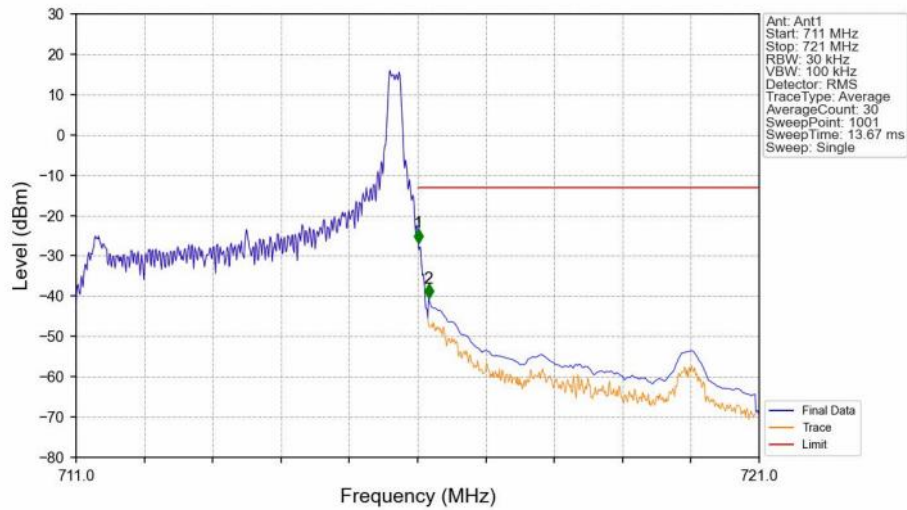
Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



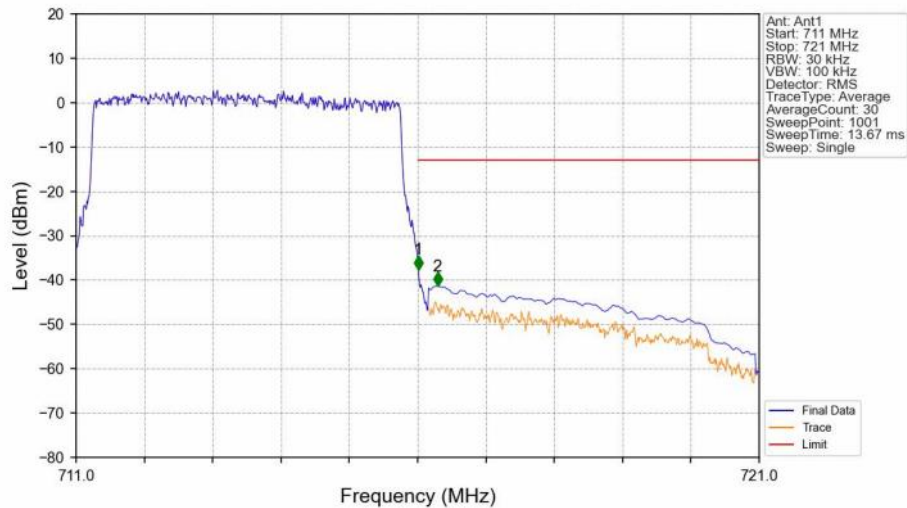
Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



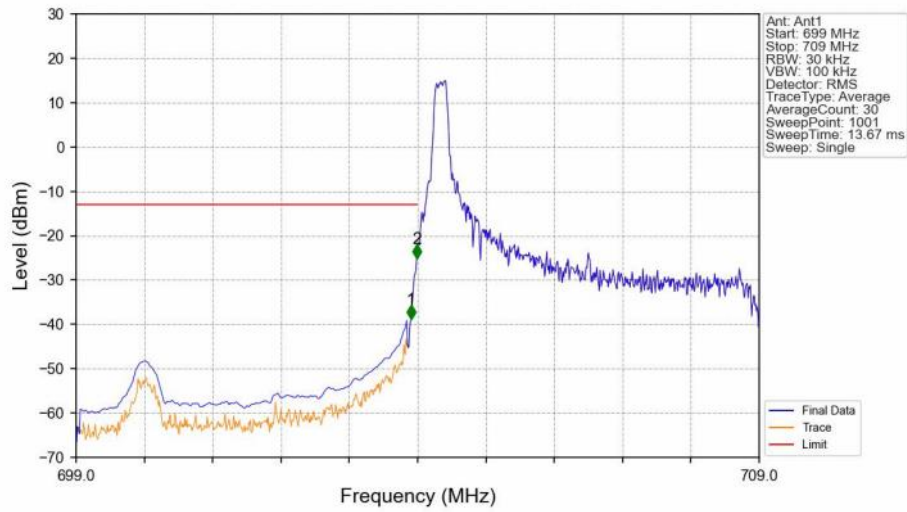
Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



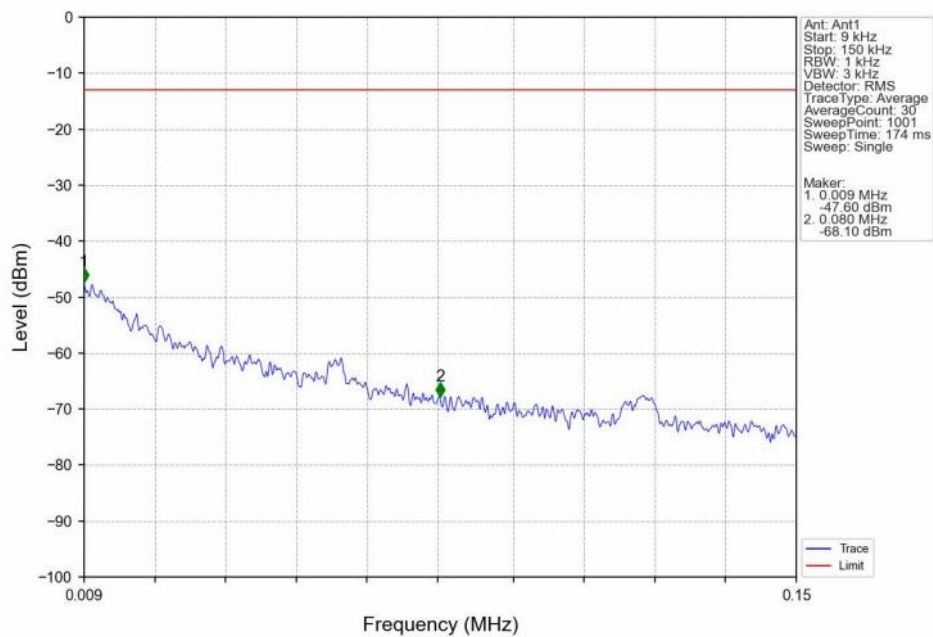
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



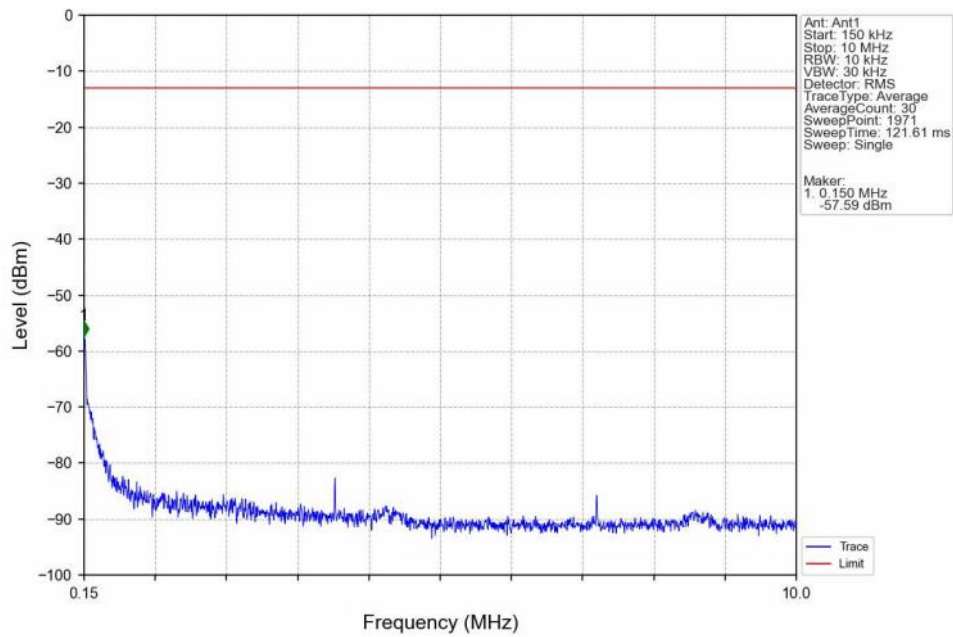
Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



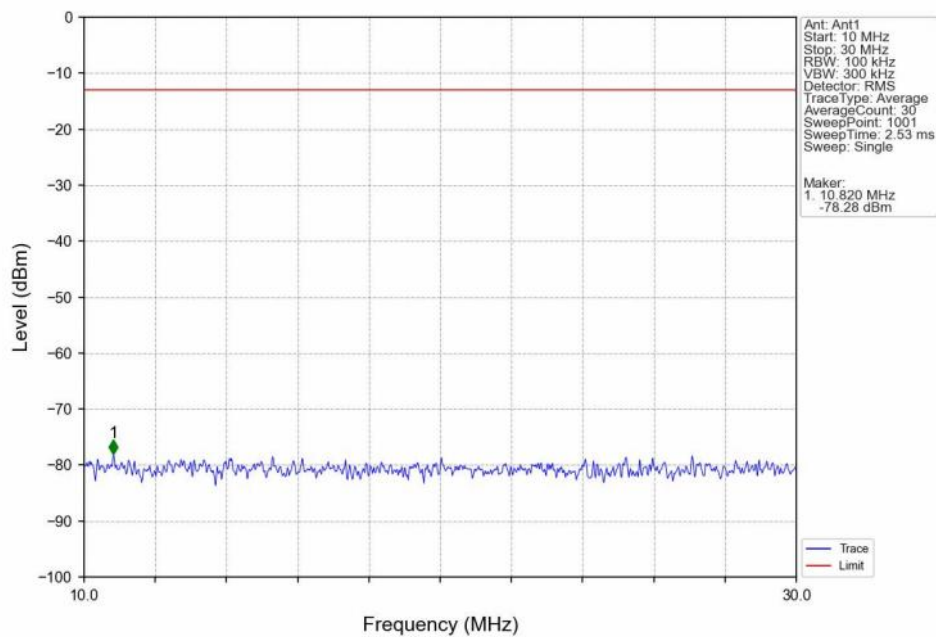
Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



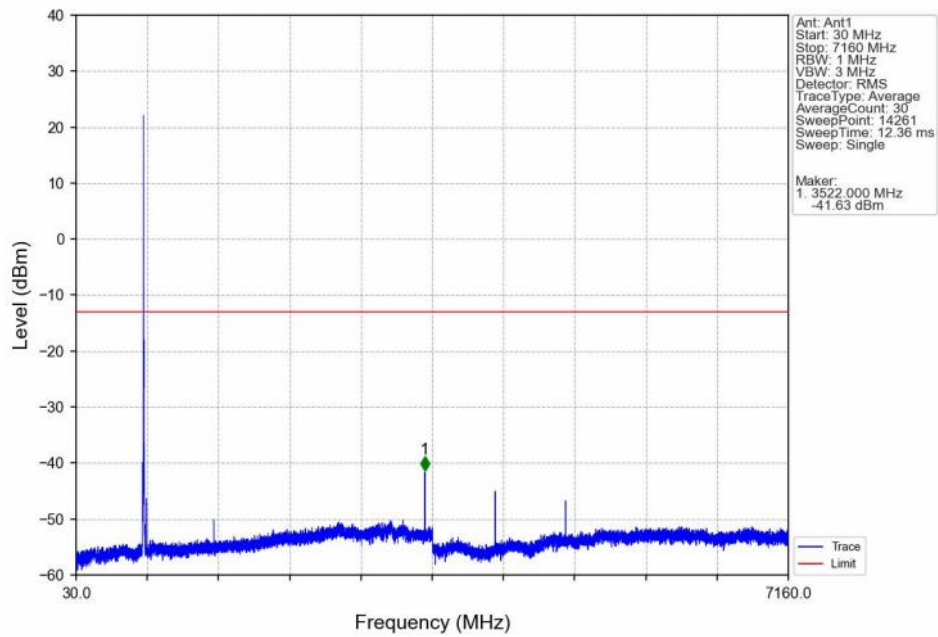
Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



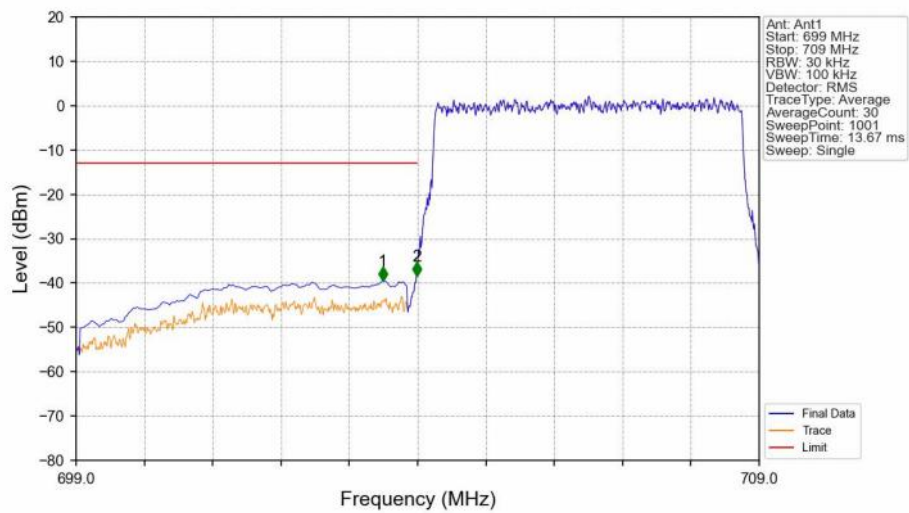
Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV

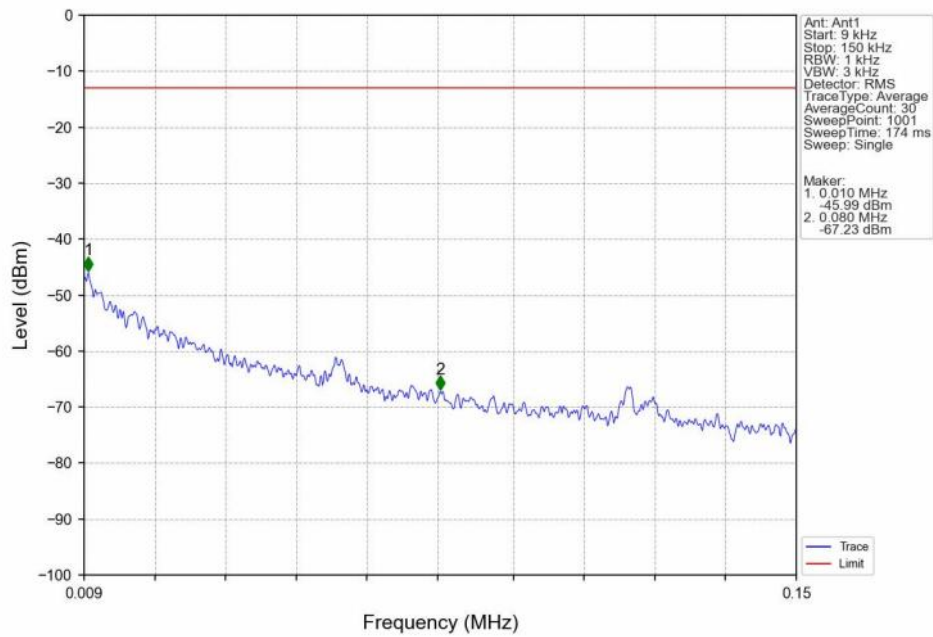


Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV

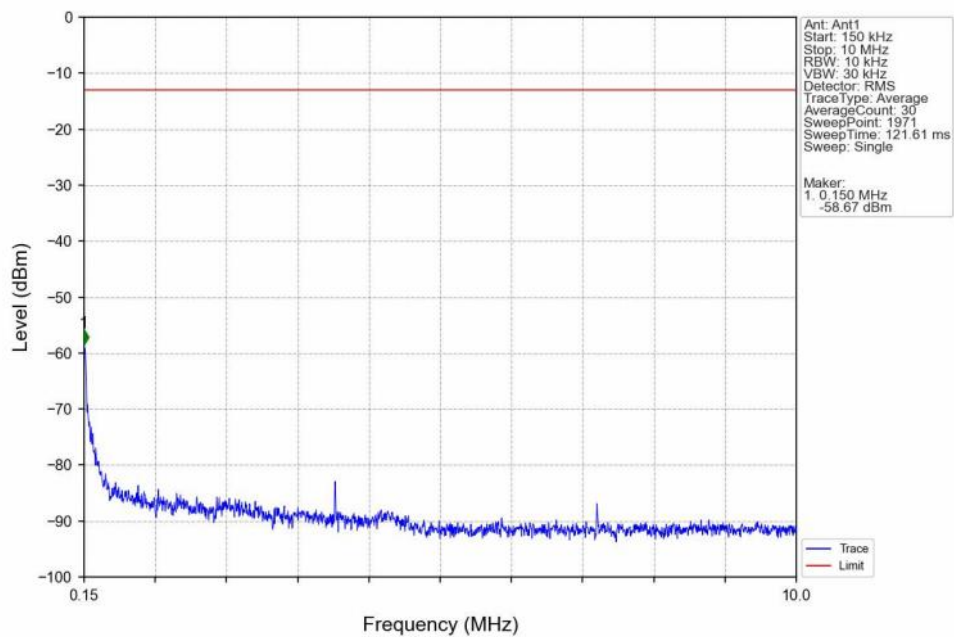


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.490	-39.54	-13	Pass
703.9	704	0.03	/	2	703.990	-38.43	-13	Pass
704	709	0.03	/	/	/	/	/	/

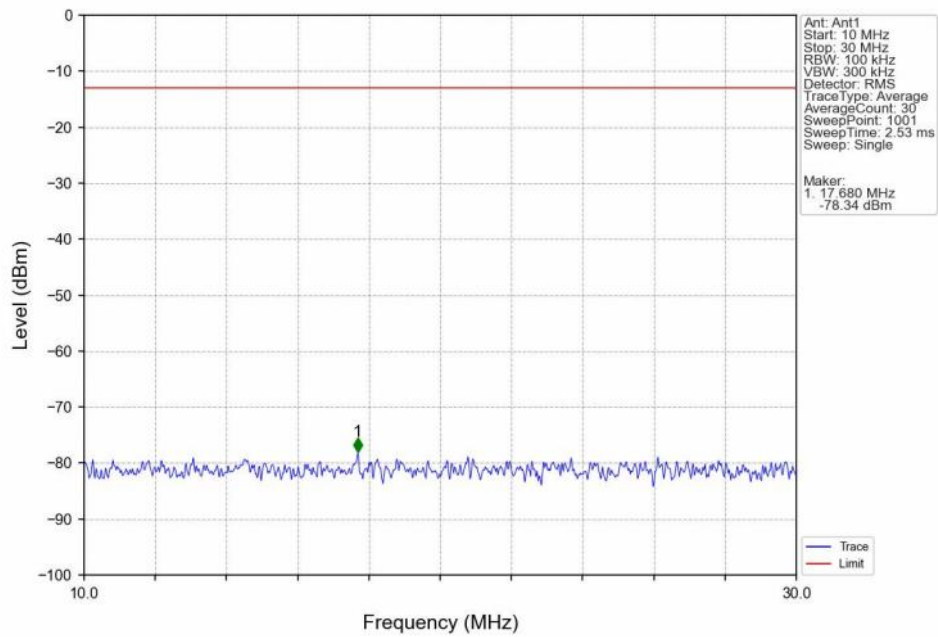
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



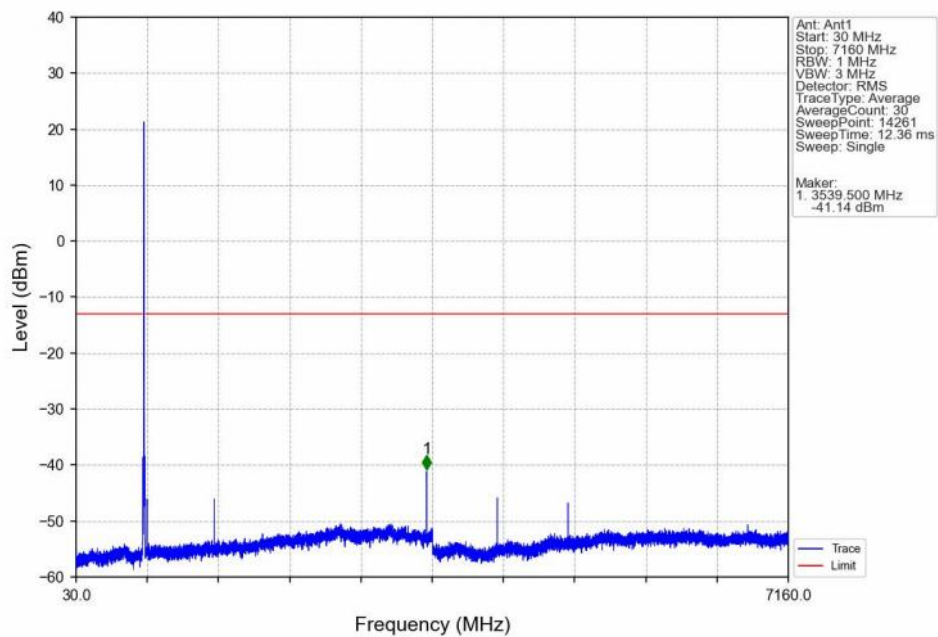
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



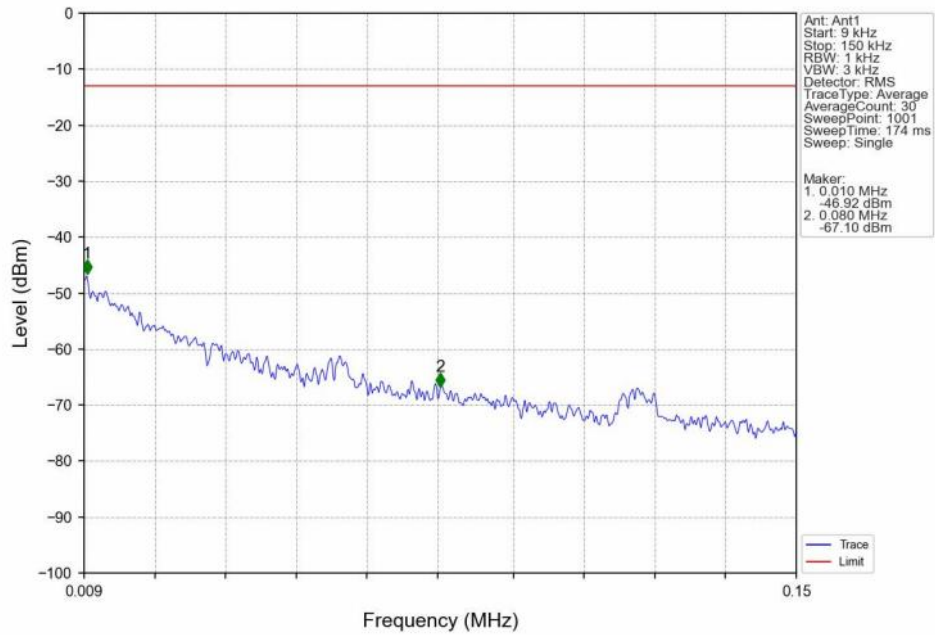
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



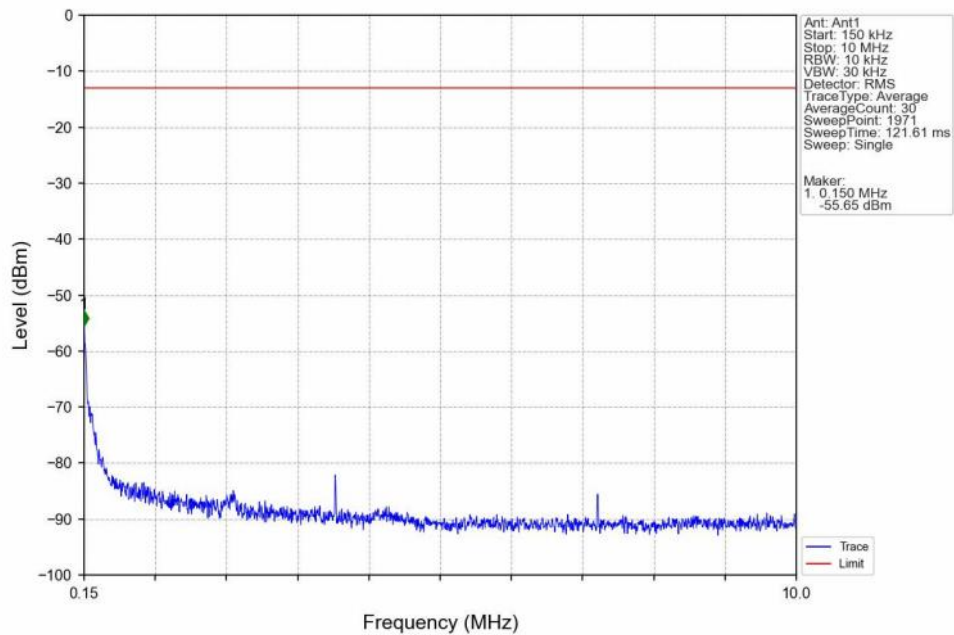
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



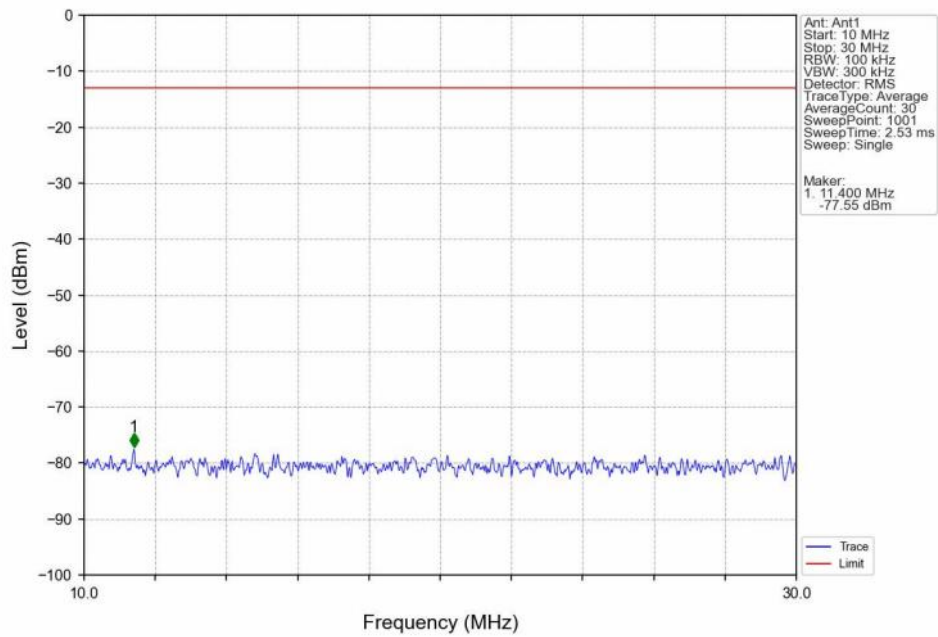
Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



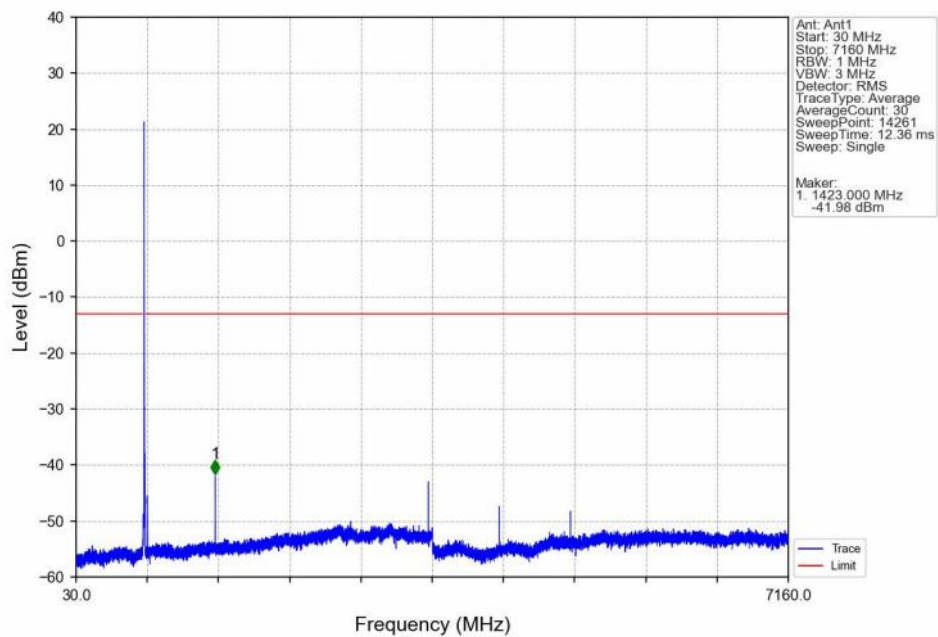
Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



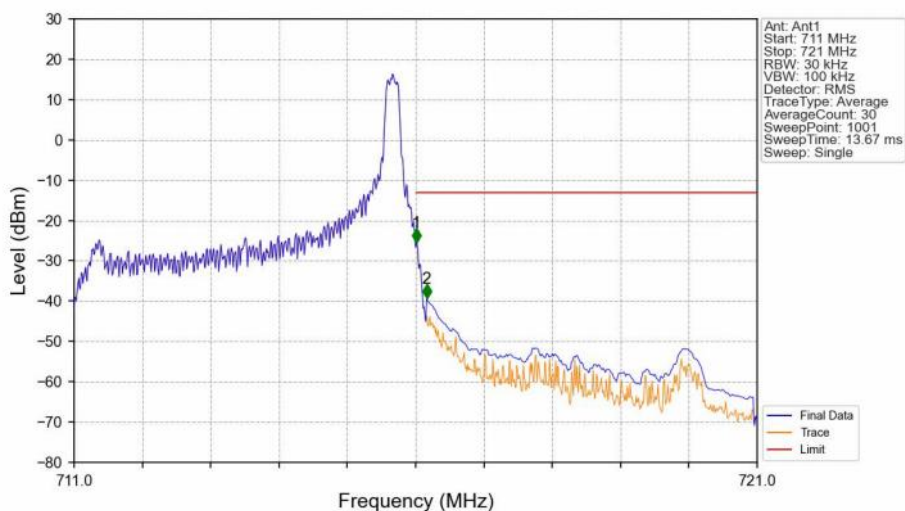
Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



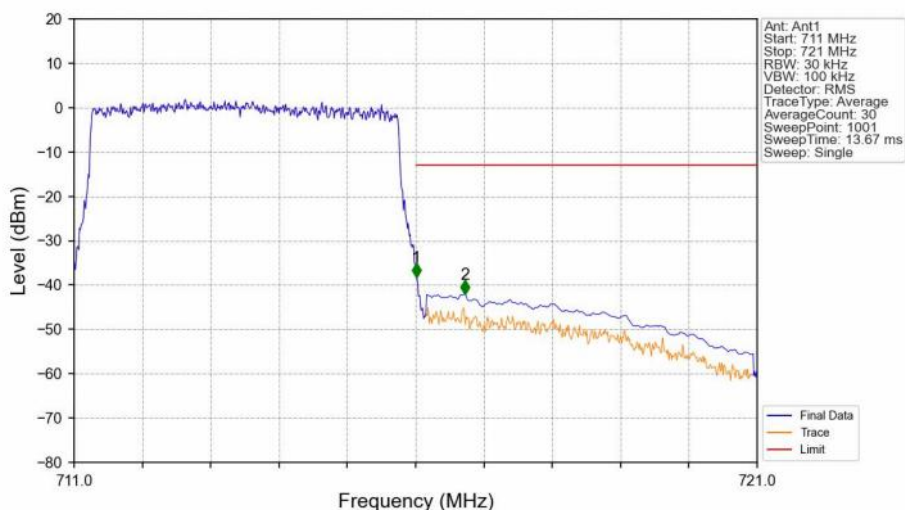
Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



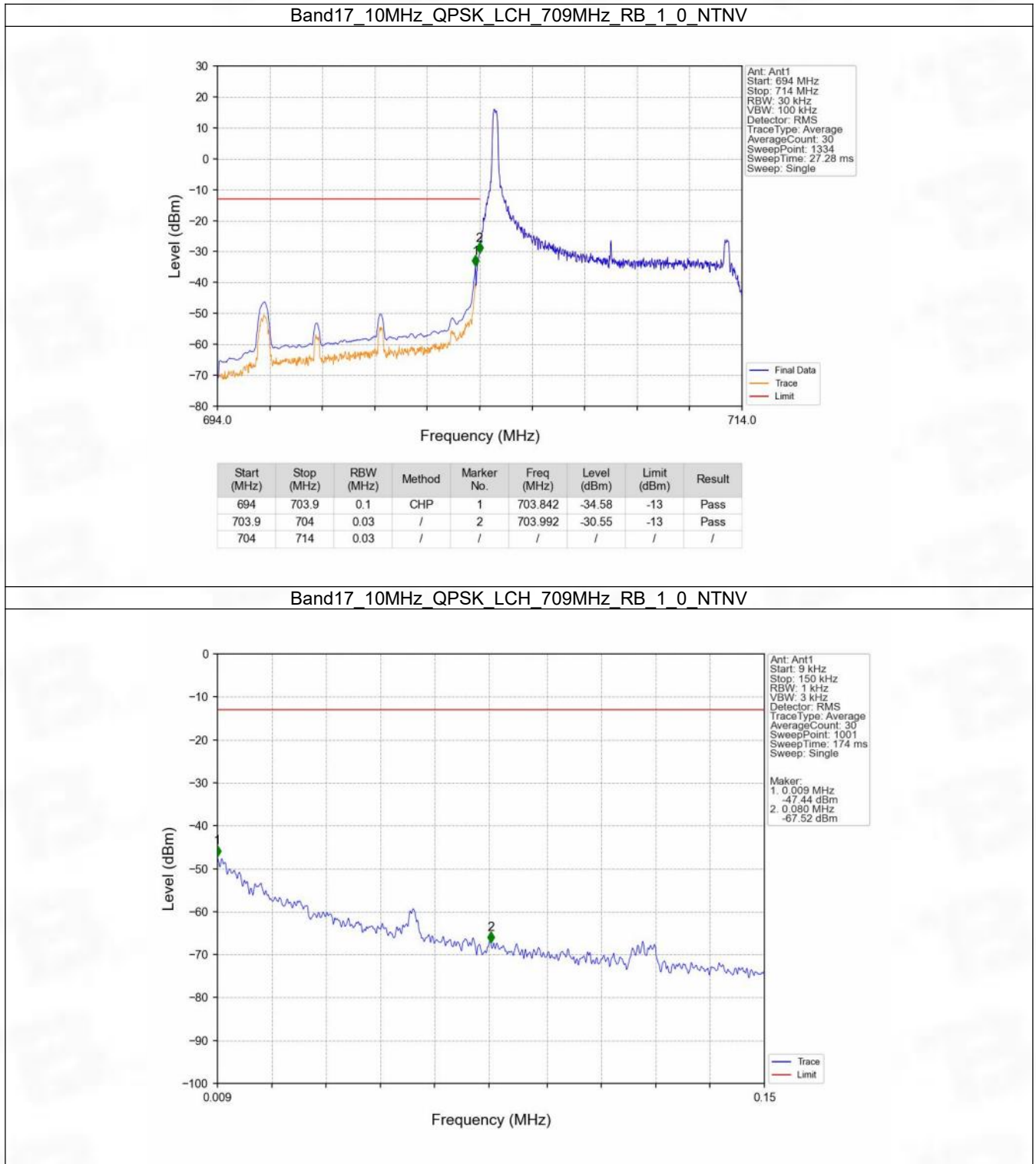
Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_24_NTNV



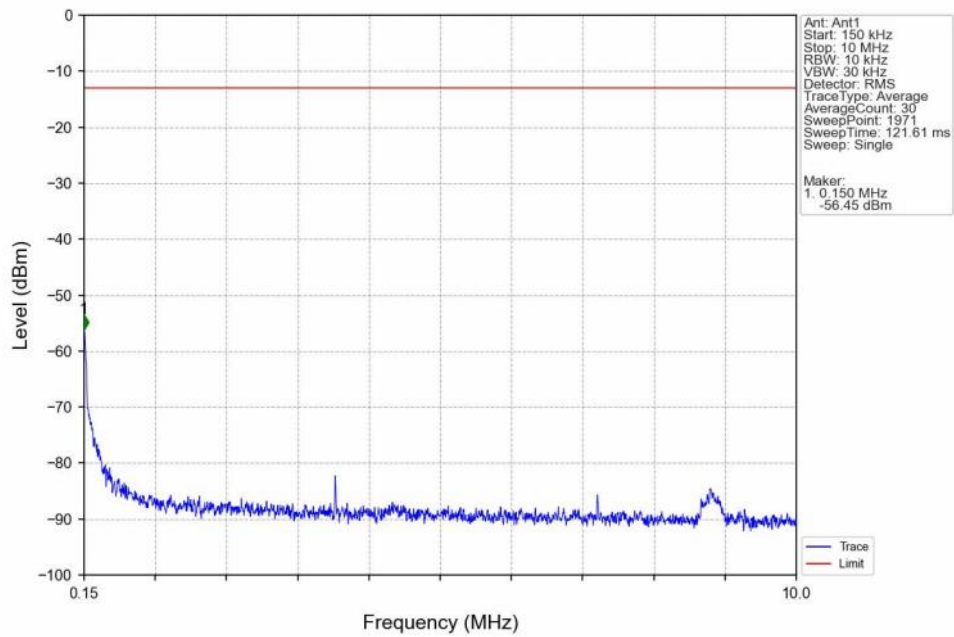
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



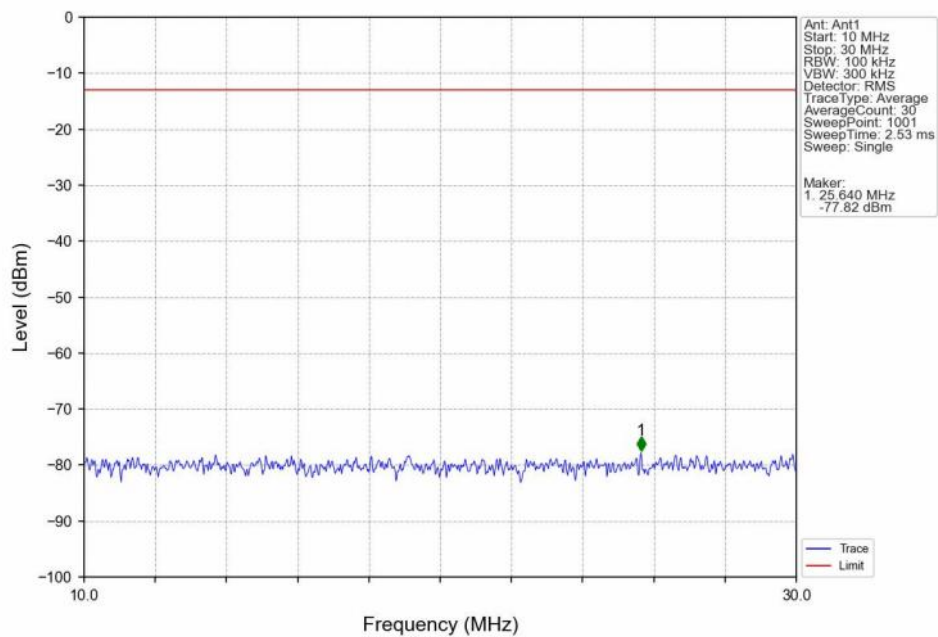
6.2.2 B17_10MHz



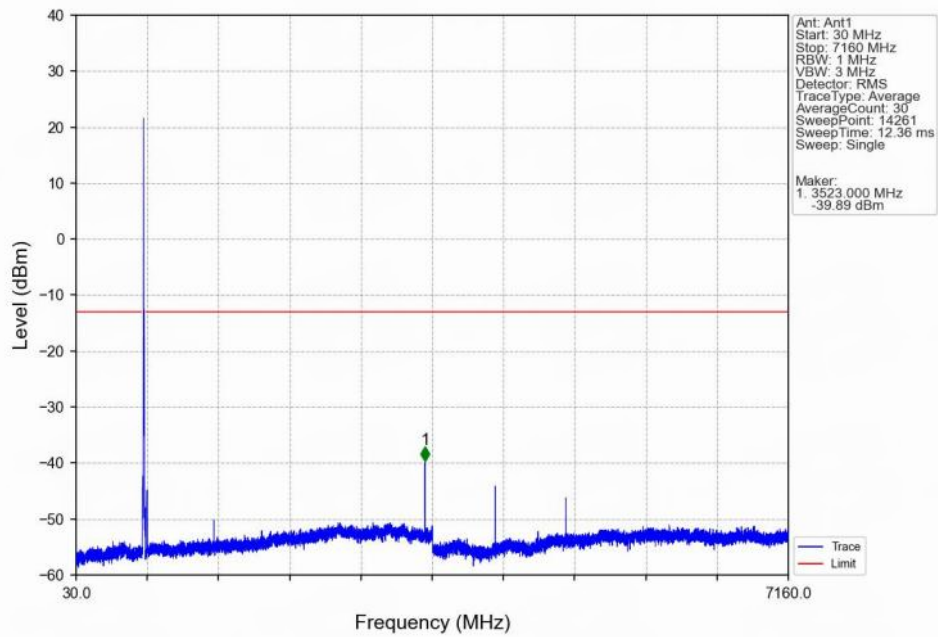
Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV



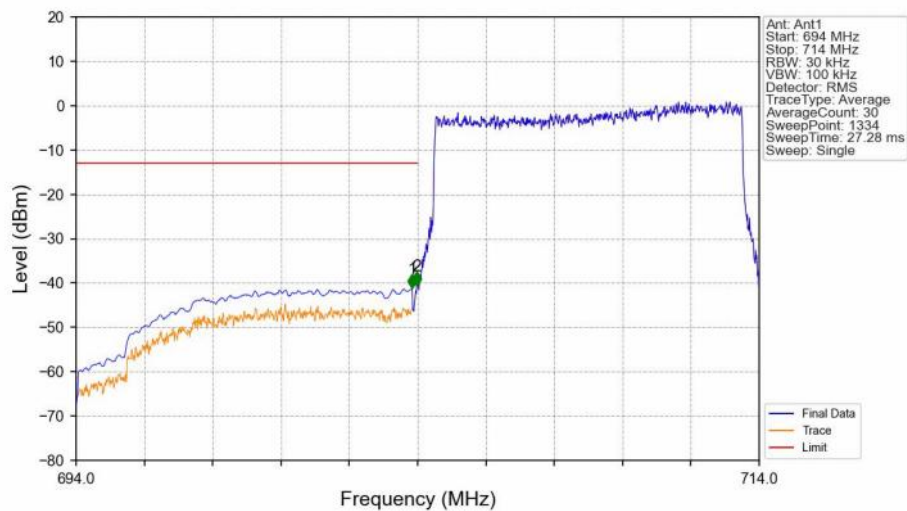
Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV



Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV

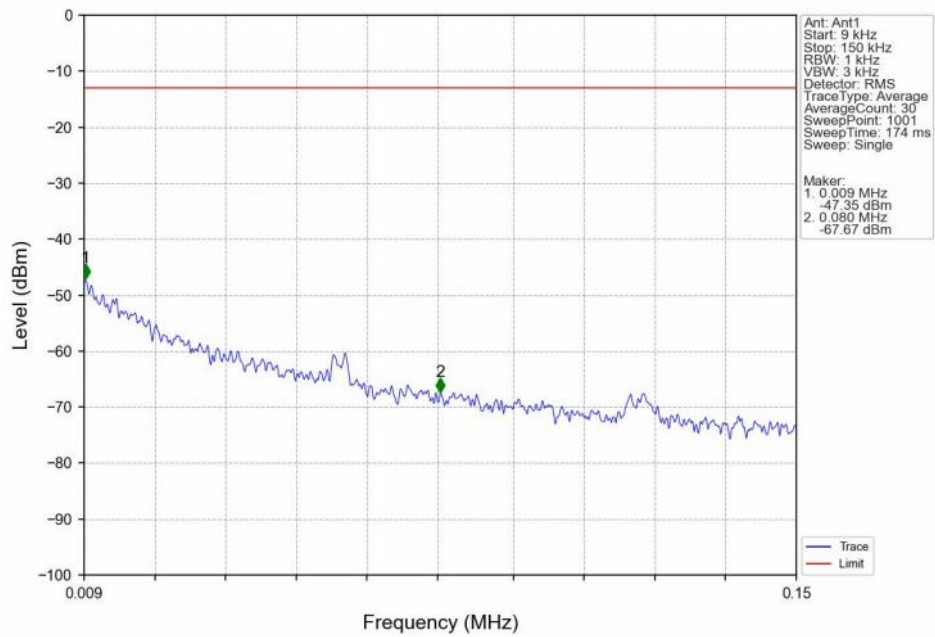


Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV

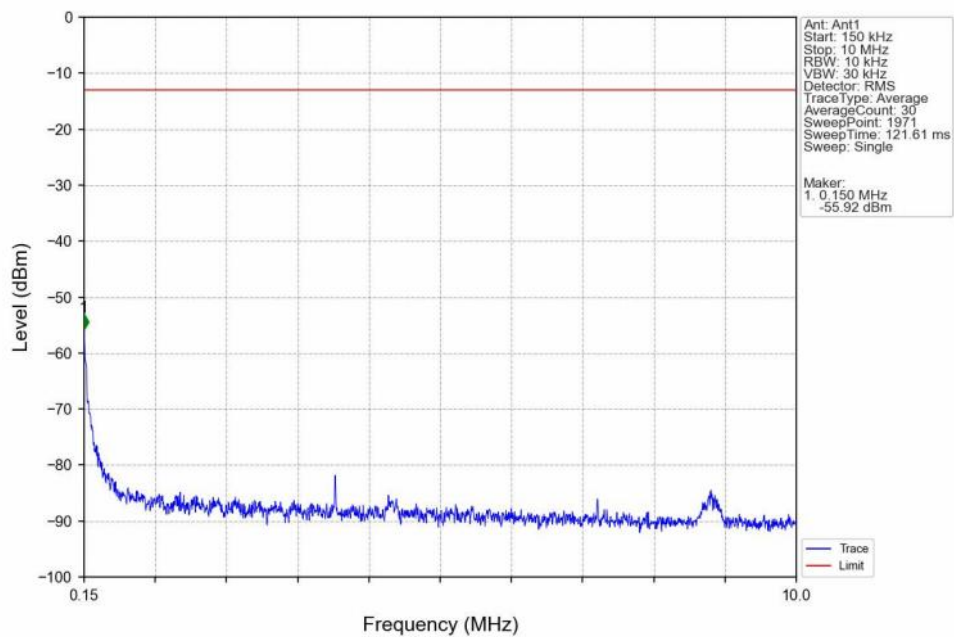


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-41.12	-13	Pass
703.9	704	0.03	/	2	703.977	-40.58	-13	Pass
704	714	0.03	/	/	/	/	/	/

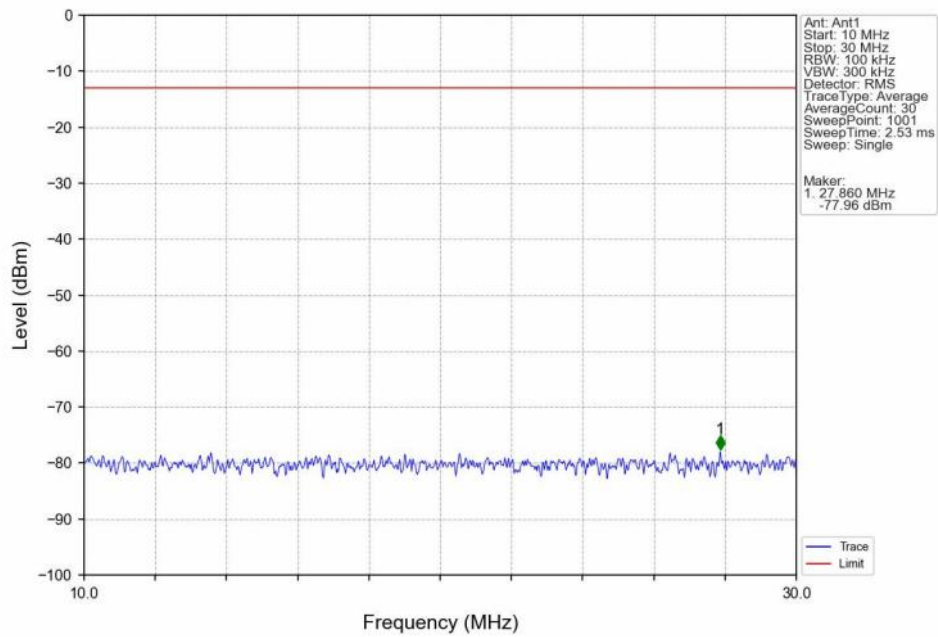
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



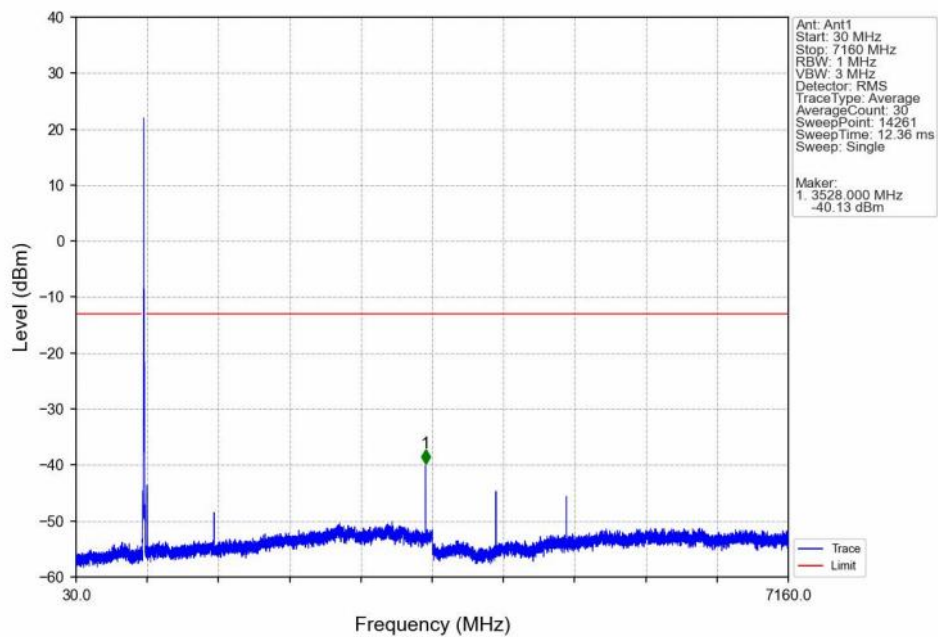
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



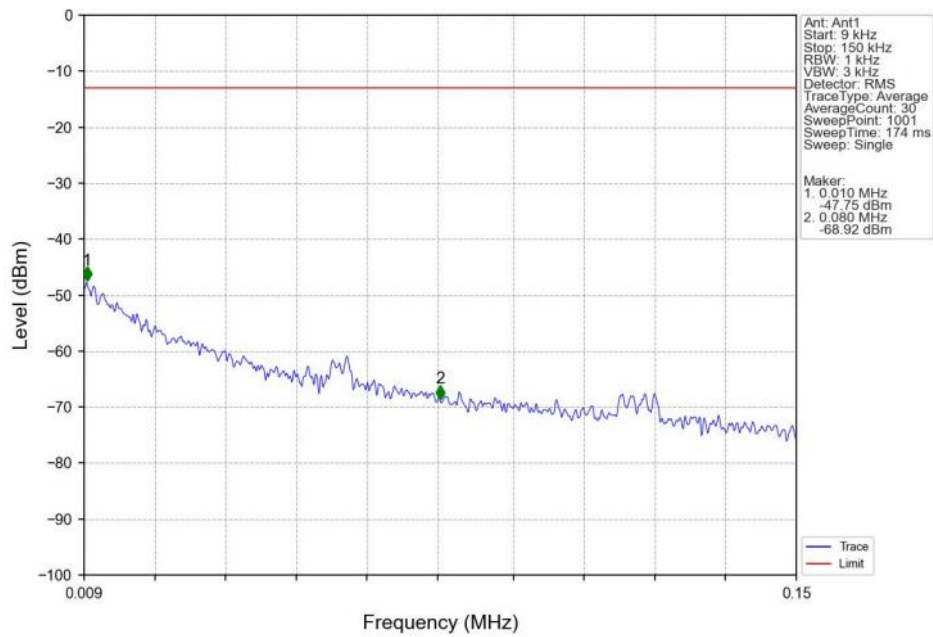
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



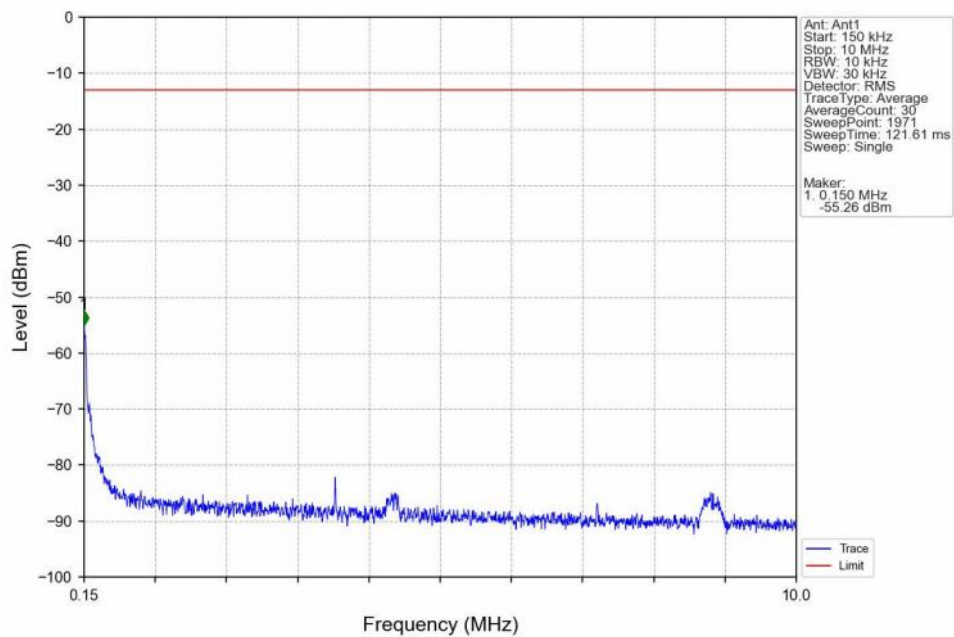
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



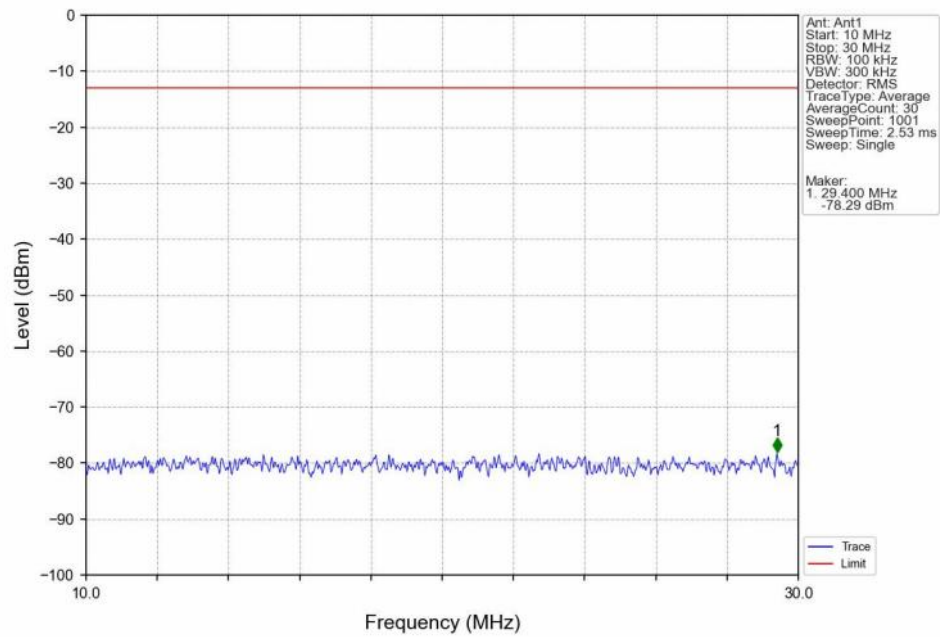
Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



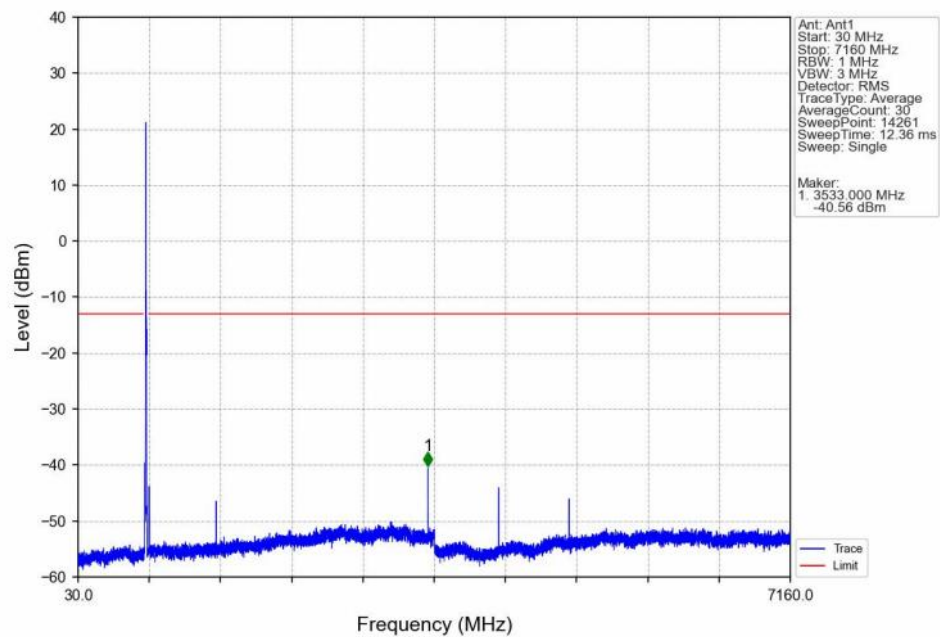
Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



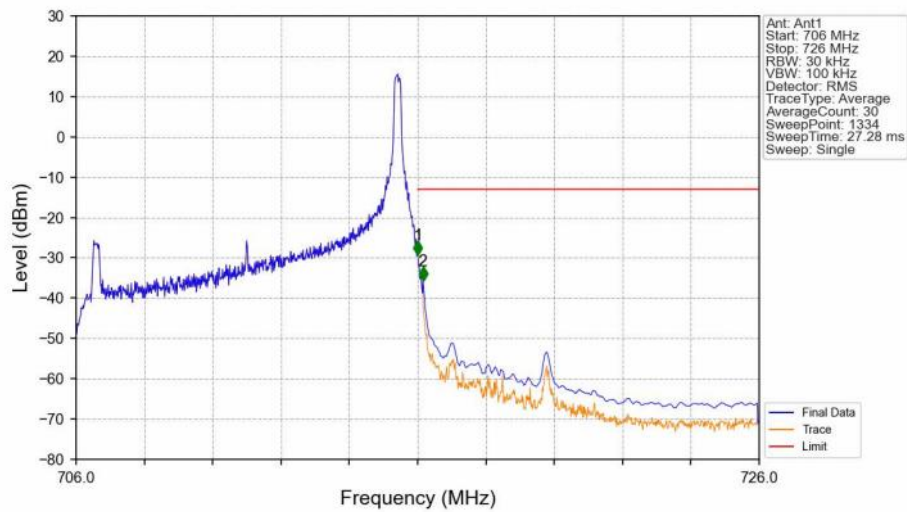
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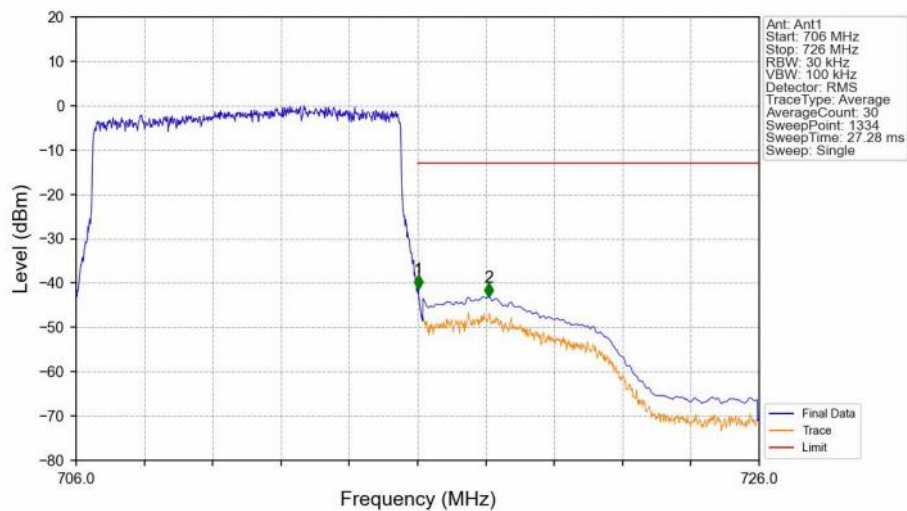
Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



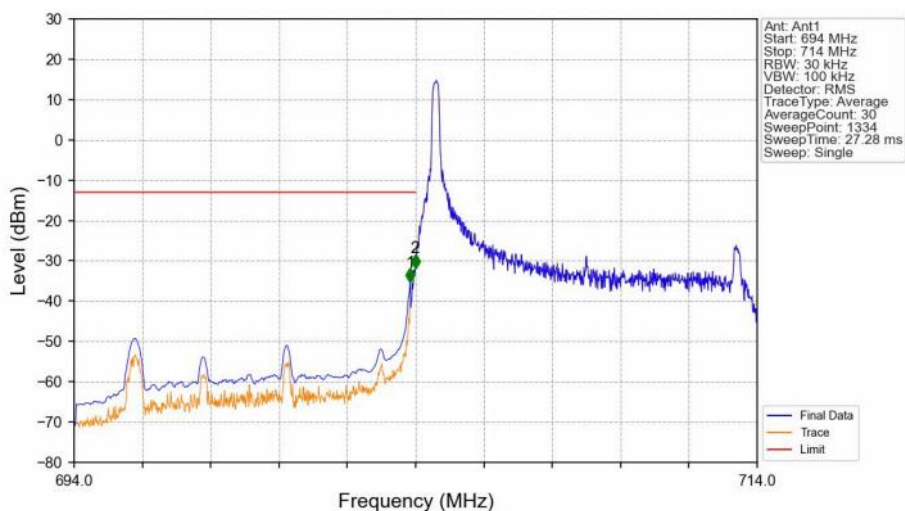
Band17_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV

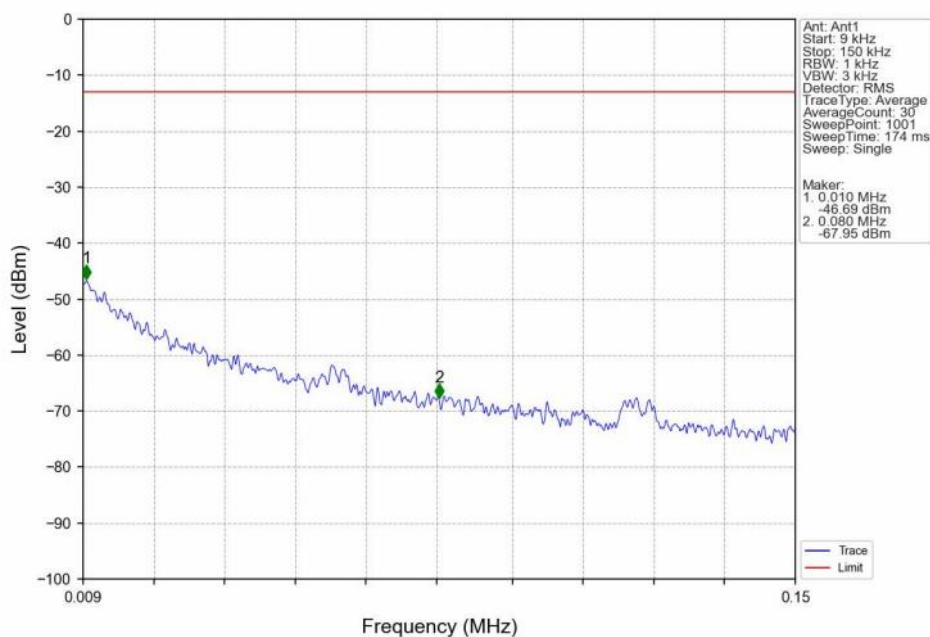


Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV

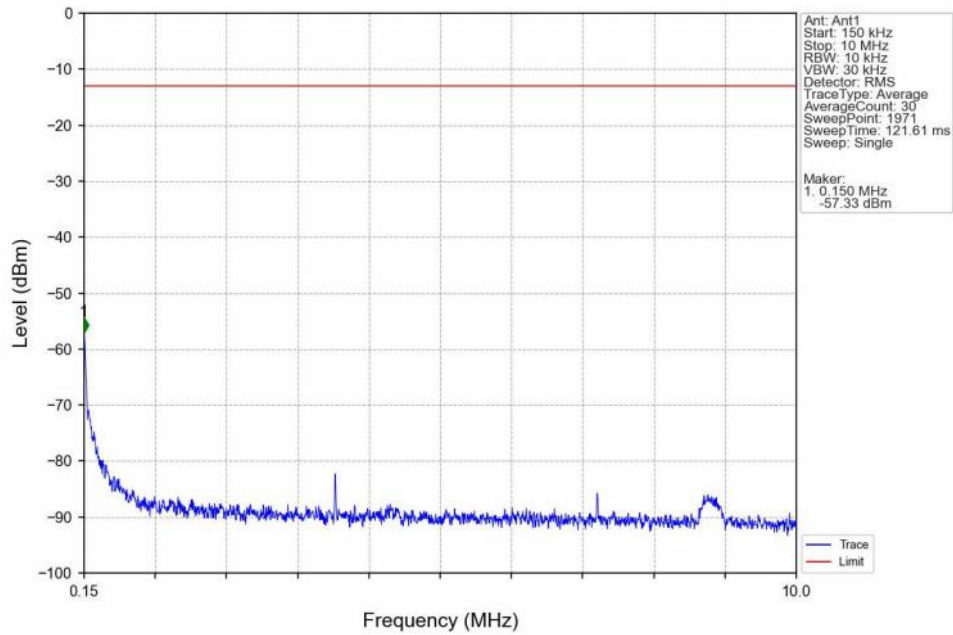


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-35.18	-13	Pass
703.9	704	0.03	/	2	703.992	-31.75	-13	Pass
704	714	0.03	/	/	/	/	/	/

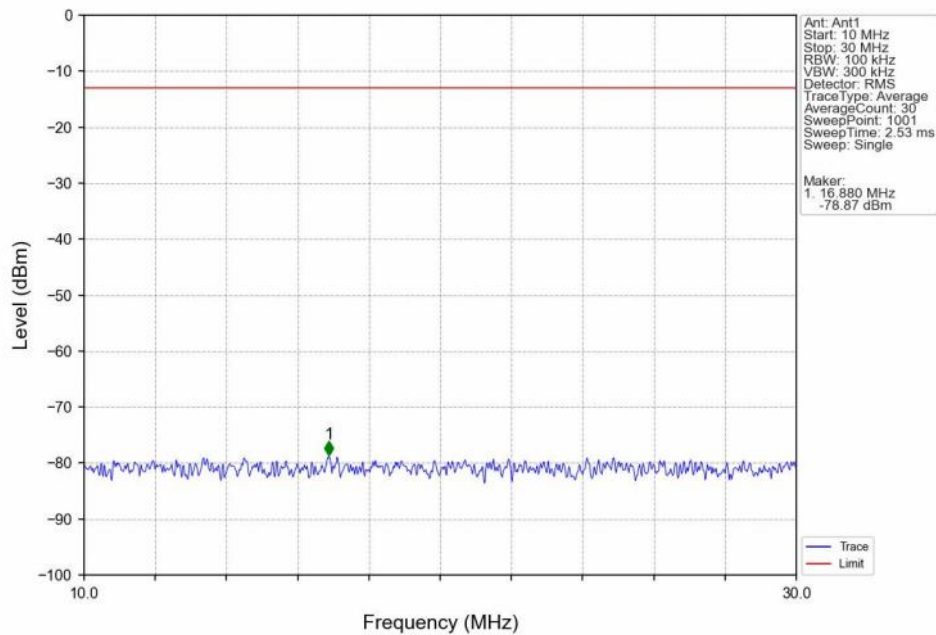
Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV



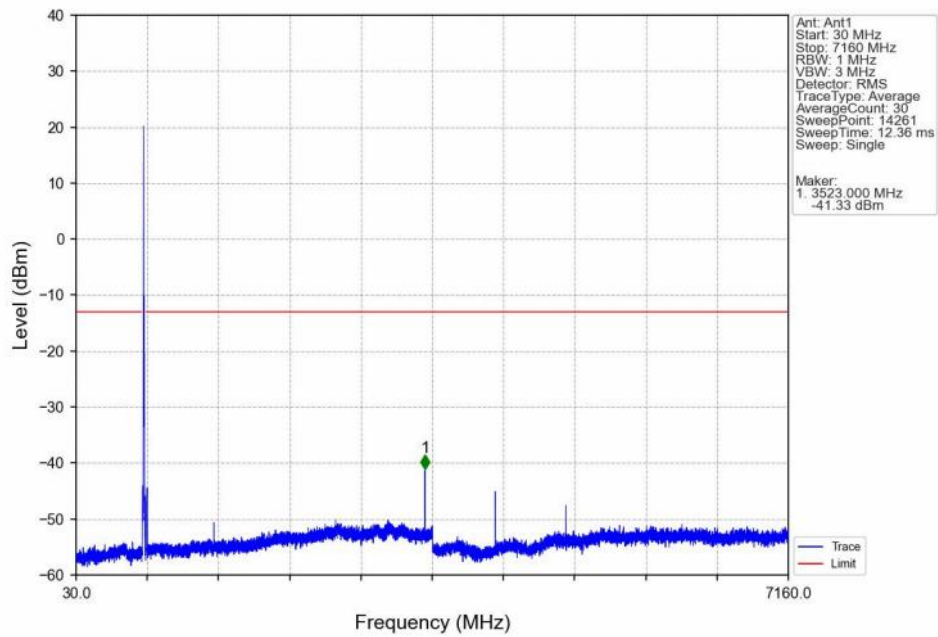
Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV



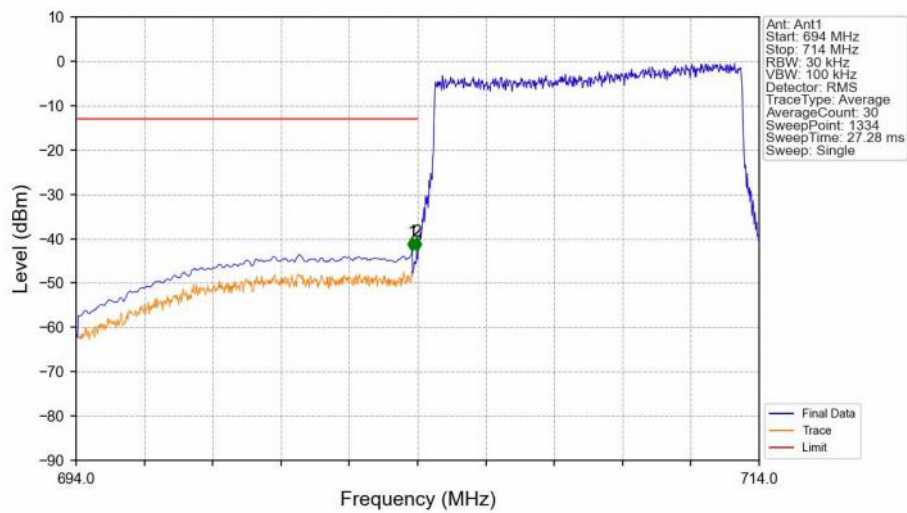
Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV



Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV

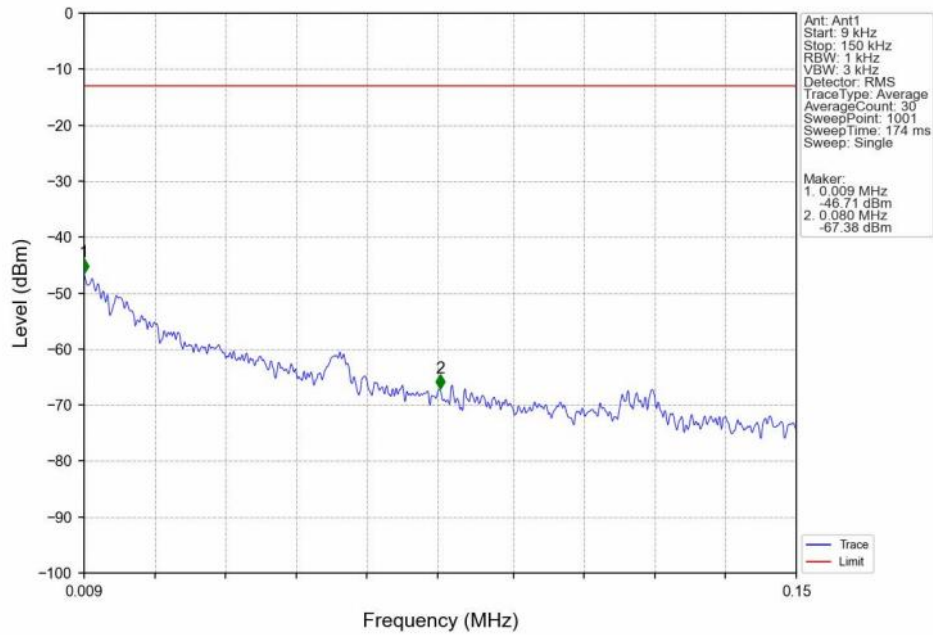


Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV

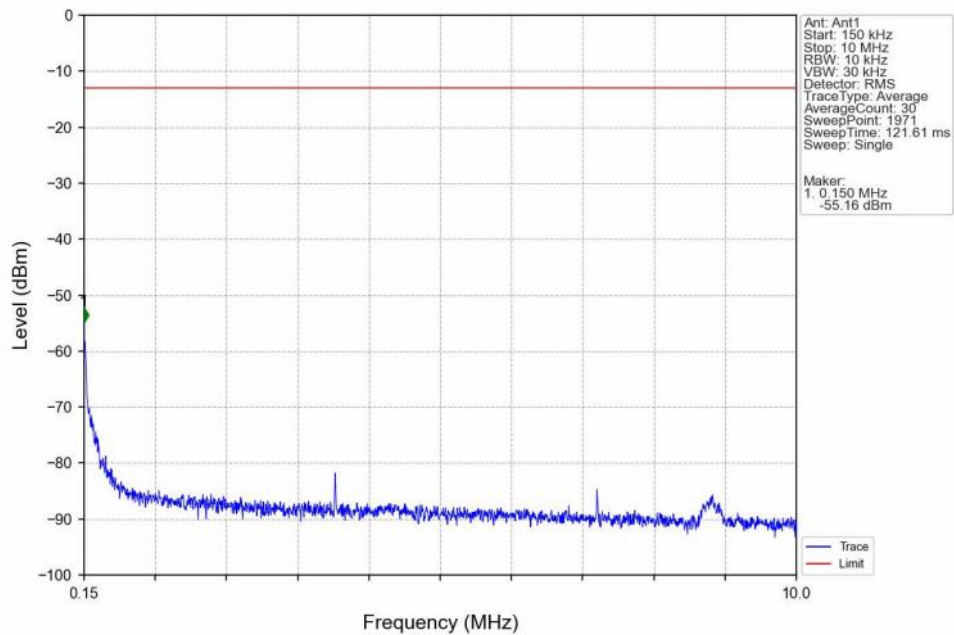


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-42.71	-13	Pass
703.9	704	0.03	/	2	703.977	-42.82	-13	Pass
704	714	0.03	/	/	/	/	/	/

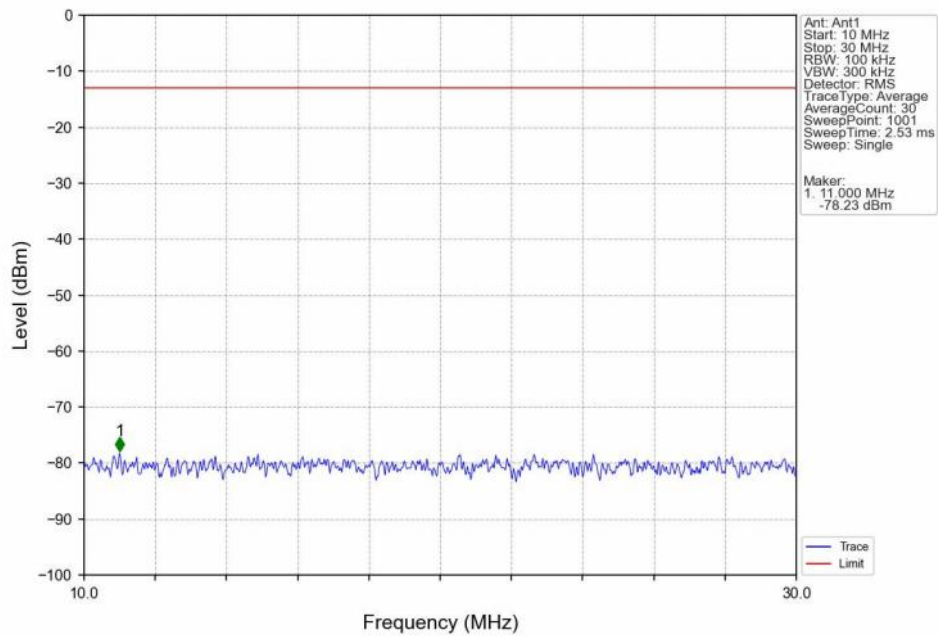
Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



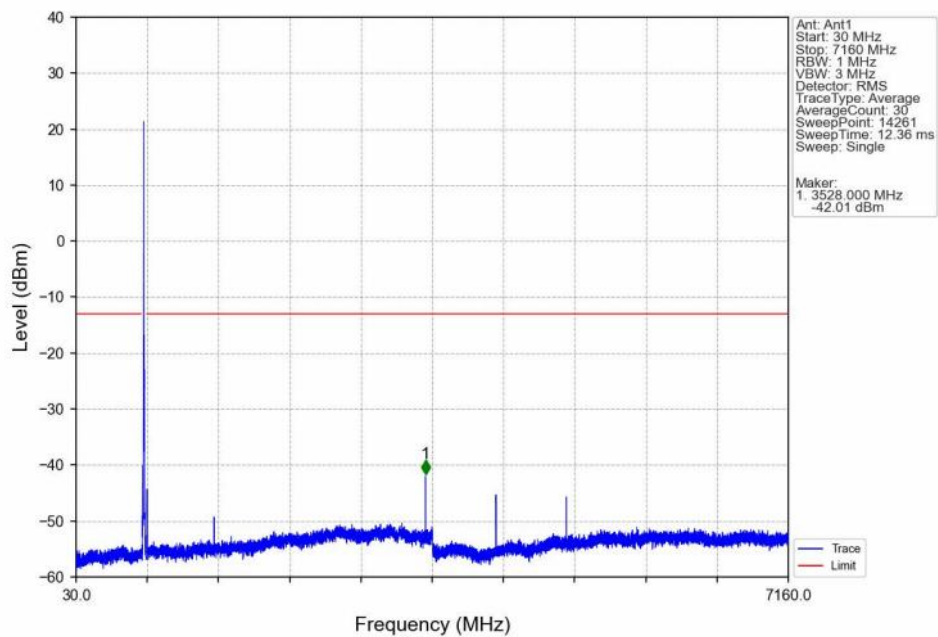
Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



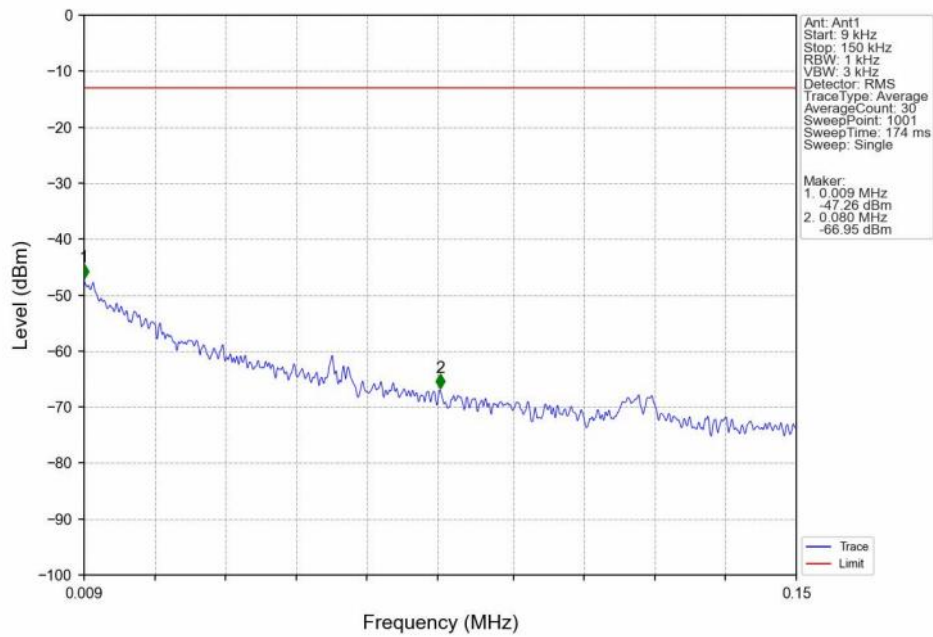
Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



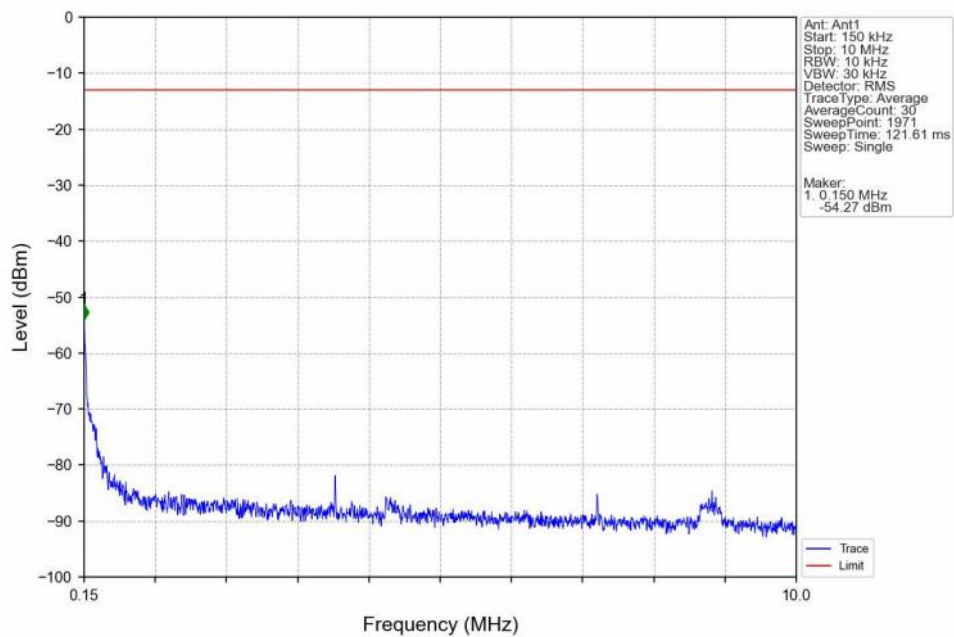
Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



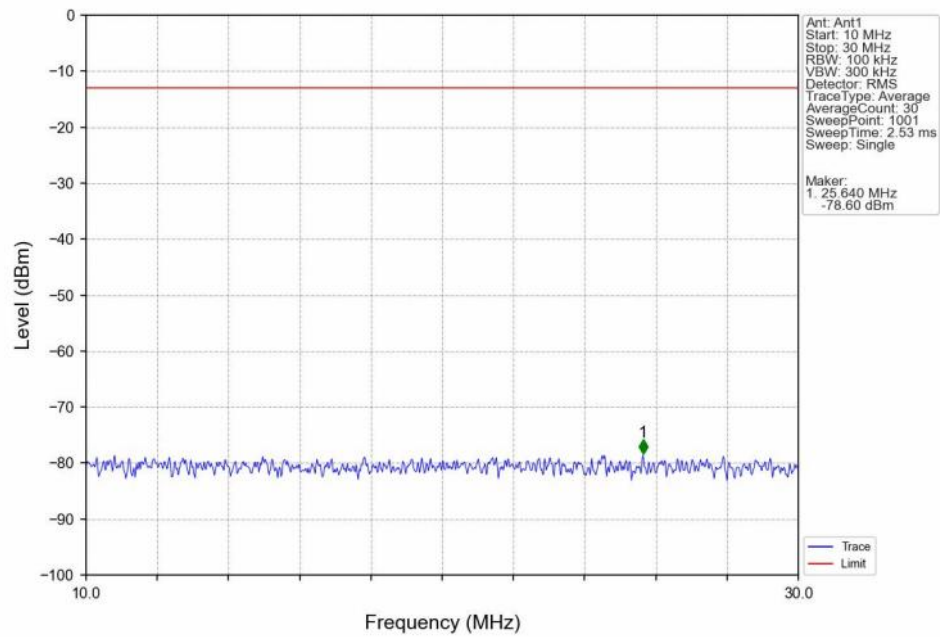
Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



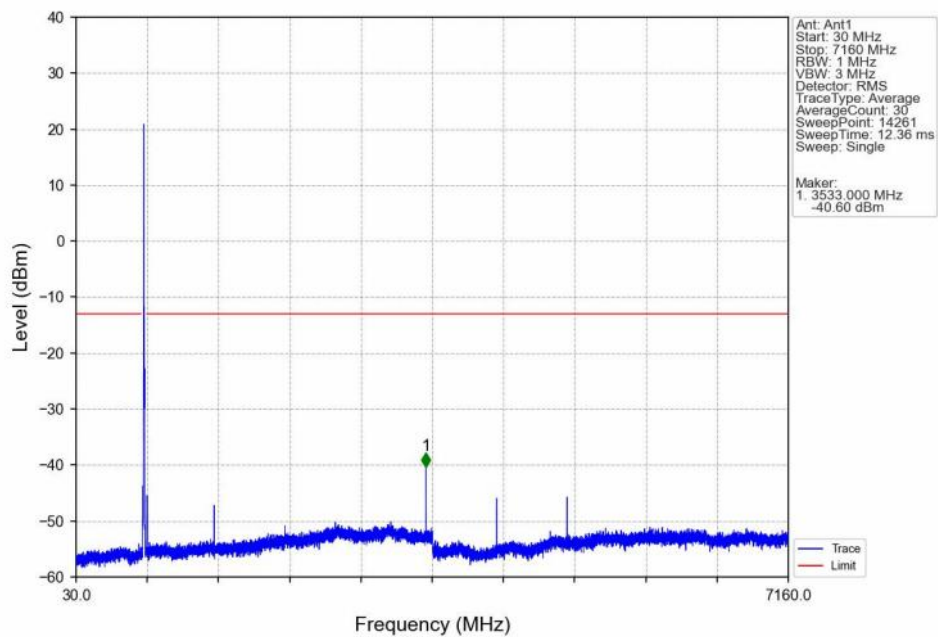
Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



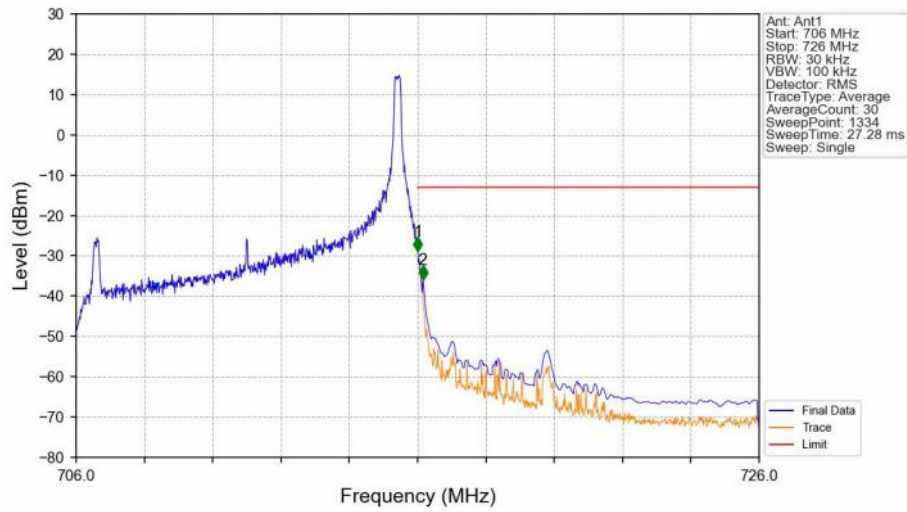
Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV

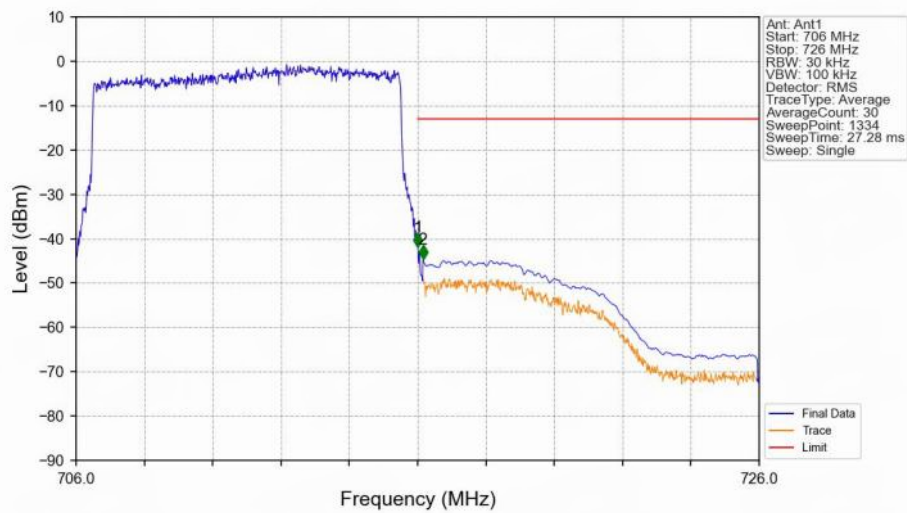


Band17_10MHz_16QAM_HCH_711MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-28.91	-13	Pass
716.1	726	0.1	CHP	2	716.158	-35.80	-13	Pass

Band17_10MHz_16QAM_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	716.1	0.03	/	1	716.008	-41.83	-13	Pass
716.1	726	0.1	CHP	2	716.158	-44.64	-13	Pass

7. Form731

7.1 Test Result

7.1.1 Form731_Power

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	0.1807	0.0682	ppm	4M53G7D	27H	22.57
17	5	706.5	713.5	0.1618	0.0662	ppm	4M53W7D	27H	22.09
17	10	709	711	0.1832	0.0661	ppm	8M97G7D	27H	22.63
17	10	709	711	0.1667	0.0651	ppm	8M96W7D	27H	22.22

7.1.2 Form731_ERP

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	0.0568	0.0682	ppm	4M53G7D	27H	17.54
17	5	706.5	713.5	0.0508	0.0662	ppm	4M53W7D	27H	17.06
17	10	709	711	0.0575	0.0661	ppm	8M97G7D	27H	17.60
17	10	709	711	0.0524	0.0651	ppm	8M96W7D	27H	17.19