

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	21.82	-1.91	17.76	<=34.77	Pass
			13	21.87	-1.91	17.81	<=34.77	Pass
			24	21.88	-1.91	17.82	<=34.77	Pass
		12	0	20.98	-1.91	16.92	<=34.77	Pass
			6	20.89	-1.91	16.83	<=34.77	Pass
			13	20.95	-1.91	16.89	<=34.77	Pass
		25	0	20.91	-1.91	16.85	<=34.77	Pass
	710	1	0	22.02	-1.91	17.96	<=34.77	Pass
			13	22.02	-1.91	17.96	<=34.77	Pass
			24	22.03	-1.91	17.97	<=34.77	Pass
		12	0	20.94	-1.91	16.88	<=34.77	Pass
			6	21.00	-1.91	16.94	<=34.77	Pass
			13	21.25	-1.91	17.19	<=34.77	Pass
		25	0	21.02	-1.91	16.96	<=34.77	Pass
	713.5	1	0	21.79	-1.91	17.73	<=34.77	Pass
			13	21.80	-1.91	17.74	<=34.77	Pass
			24	21.82	-1.91	17.76	<=34.77	Pass
		12	0	21.15	-1.91	17.09	<=34.77	Pass
			6	20.91	-1.91	16.85	<=34.77	Pass
			13	20.92	-1.91	16.86	<=34.77	Pass
		25	0	20.97	-1.91	16.91	<=34.77	Pass
16QAM	706.5	1	0	21.24	-1.91	17.18	<=34.77	Pass
			13	21.27	-1.91	17.21	<=34.77	Pass
			24	21.34	-1.91	17.28	<=34.77	Pass
		12	0	20.40	-1.91	16.34	<=34.77	Pass
			6	20.33	-1.91	16.27	<=34.77	Pass
			13	20.41	-1.91	16.35	<=34.77	Pass
		25	0	20.35	-1.91	16.29	<=34.77	Pass
	710	1	0	20.64	-1.91	16.58	<=34.77	Pass
			13	20.64	-1.91	16.58	<=34.77	Pass
			24	20.84	-1.91	16.78	<=34.77	Pass
		12	0	20.22	-1.91	16.16	<=34.77	Pass
			6	19.92	-1.91	15.86	<=34.77	Pass
			13	20.19	-1.91	16.13	<=34.77	Pass
		25	0	20.03	-1.91	15.97	<=34.77	Pass
	713.5	1	0	21.65	-1.91	17.59	<=34.77	Pass
			13	21.33	-1.91	17.27	<=34.77	Pass
			24	21.37	-1.91	17.31	<=34.77	Pass
		12	0	20.10	-1.91	16.04	<=34.77	Pass
			6	19.94	-1.91	15.88	<=34.77	Pass
			13	19.95	-1.91	15.89	<=34.77	Pass
		25	0	19.98	-1.91	15.92	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.2 B17_10MHz_ERP

Band: 17 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	709	1	0	21.98	-1.91	17.92	<=34.77	Pass
			25	22.04	-1.91	17.98	<=34.77	Pass
			49	22.07	-1.91	18.01	<=34.77	Pass
		25	0	20.94	-1.91	16.88	<=34.77	Pass
			13	21.00	-1.91	16.94	<=34.77	Pass
			25	21.26	-1.91	17.20	<=34.77	Pass
		50	0	20.89	-1.91	16.83	<=34.77	Pass
	710	1	0	21.82	-1.91	17.76	<=34.77	Pass
			25	21.85	-1.91	17.79	<=34.77	Pass
			49	21.91	-1.91	17.85	<=34.77	Pass
		25	0	20.90	-1.91	16.84	<=34.77	Pass
			13	21.00	-1.91	16.94	<=34.77	Pass
			25	21.20	-1.91	17.14	<=34.77	Pass
		50	0	20.96	-1.91	16.90	<=34.77	Pass
	711	1	0	21.89	-1.91	17.83	<=34.77	Pass
			25	21.90	-1.91	17.84	<=34.77	Pass
			49	22.00	-1.91	17.94	<=34.77	Pass
		25	0	20.88	-1.91	16.82	<=34.77	Pass
			13	20.89	-1.91	16.83	<=34.77	Pass
			25	20.97	-1.91	16.91	<=34.77	Pass
		50	0	20.94	-1.91	16.88	<=34.77	Pass
16QAM	709	1	0	21.45	-1.91	17.39	<=34.77	Pass
			25	21.49	-1.91	17.43	<=34.77	Pass
			49	21.55	-1.91	17.49	<=34.77	Pass
		25	0	20.38	-1.91	16.32	<=34.77	Pass
			13	20.35	-1.91	16.29	<=34.77	Pass
			25	20.30	-1.91	16.24	<=34.77	Pass
		50	0	20.34	-1.91	16.28	<=34.77	Pass
	710	1	0	21.71	-1.91	17.65	<=34.77	Pass
			25	21.84	-1.91	17.78	<=34.77	Pass
			49	21.86	-1.91	17.80	<=34.77	Pass
		25	0	20.30	-1.91	16.24	<=34.77	Pass
			13	19.92	-1.91	15.86	<=34.77	Pass
			25	20.24	-1.91	16.18	<=34.77	Pass
		50	0	19.90	-1.91	15.84	<=34.77	Pass
	711	1	0	20.89	-1.91	16.83	<=34.77	Pass
			25	20.93	-1.91	16.87	<=34.77	Pass
			49	20.90	-1.91	16.84	<=34.77	Pass
		25	0	20.34	-1.91	16.28	<=34.77	Pass
			13	19.99	-1.91	15.93	<=34.77	Pass
			25	20.13	-1.91	16.07	<=34.77	Pass
		50	0	19.96	-1.91	15.90	<=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	6.895	0.0098	-2.5 to 2.5	Pass
					3.85	-4.263	-0.0060	-2.5 to 2.5	Pass
					4.43	-17.638	-0.0250	-2.5 to 2.5	Pass
				-30	3.85	-22.874	-0.0324	-2.5 to 2.5	Pass
				-20	3.85	-26.808	-0.0379	-2.5 to 2.5	Pass
				-10	3.85	-33.002	-0.0467	-2.5 to 2.5	Pass
				0	3.85	-34.232	-0.0485	-2.5 to 2.5	Pass
				10	3.85	-37.222	-0.0527	-2.5 to 2.5	Pass
				30	3.85	-38.424	-0.0544	-2.5 to 2.5	Pass
				40	3.85	-41.285	-0.0584	-2.5 to 2.5	Pass
				50	3.85	-41.642	-0.0589	-2.5 to 2.5	Pass
	710	25	0	20	3.27	3.848	0.0054	-2.5 to 2.5	Pass
					3.85	7.696	0.0108	-2.5 to 2.5	Pass
					4.43	8.698	0.0123	-2.5 to 2.5	Pass
				-30	3.85	13.504	0.0190	-2.5 to 2.5	Pass
				-20	3.85	16.136	0.0227	-2.5 to 2.5	Pass
				-10	3.85	16.265	0.0229	-2.5 to 2.5	Pass
				0	3.85	19.798	0.0279	-2.5 to 2.5	Pass
				10	3.85	20.642	0.0291	-2.5 to 2.5	Pass
				30	3.85	20.585	0.0290	-2.5 to 2.5	Pass
				40	3.85	22.645	0.0319	-2.5 to 2.5	Pass
				50	3.85	24.419	0.0344	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	5.250	0.0074	-2.5 to 2.5	Pass
					3.85	7.925	0.0111	-2.5 to 2.5	Pass
					4.43	7.052	0.0099	-2.5 to 2.5	Pass
				-30	3.85	3.462	0.0049	-2.5 to 2.5	Pass
				-20	3.85	3.705	0.0052	-2.5 to 2.5	Pass
				-10	3.85	7.353	0.0103	-2.5 to 2.5	Pass
				0	3.85	7.768	0.0109	-2.5 to 2.5	Pass
				10	3.85	8.411	0.0118	-2.5 to 2.5	Pass
				30	3.85	6.409	0.0090	-2.5 to 2.5	Pass
				40	3.85	7.124	0.0100	-2.5 to 2.5	Pass
50	3.85	7.353	0.0103	-2.5 to 2.5	Pass				
16QAM	706.5	25	0	20	3.27	-43.244	-0.0612	-2.5 to 2.5	Pass
					3.85	-40.913	-0.0579	-2.5 to 2.5	Pass
					4.43	-41.113	-0.0582	-2.5 to 2.5	Pass
				-30	3.85	-36.335	-0.0514	-2.5 to 2.5	Pass
				-20	3.85	-33.188	-0.0470	-2.5 to 2.5	Pass
				-10	3.85	-26.994	-0.0382	-2.5 to 2.5	Pass
				0	3.85	-20.914	-0.0296	-2.5 to 2.5	Pass
				10	3.85	-14.477	-0.0205	-2.5 to 2.5	Pass
				30	3.85	-11.101	-0.0157	-2.5 to 2.5	Pass
				40	3.85	-6.266	-0.0089	-2.5 to 2.5	Pass
				50	3.85	-3.262	-0.0046	-2.5 to 2.5	Pass
	710	25	0	20	3.27	27.852	0.0392	-2.5 to 2.5	Pass
					3.85	34.003	0.0479	-2.5 to 2.5	Pass
					4.43	41.556	0.0585	-2.5 to 2.5	Pass
				-30	3.85	3.276	0.0046	-2.5 to 2.5	Pass
				-20	3.85	9.785	0.0138	-2.5 to 2.5	Pass
				-10	3.85	12.889	0.0182	-2.5 to 2.5	Pass
				0	3.85	17.424	0.0245	-2.5 to 2.5	Pass
				10	3.85	19.870	0.0280	-2.5 to 2.5	Pass
				30	3.85	22.373	0.0315	-2.5 to 2.5	Pass
				40	3.85	23.932	0.0337	-2.5 to 2.5	Pass
				50	3.85	25.434	0.0358	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	7.153	0.0100	-2.5 to 2.5	Pass
					3.85	12.689	0.0178	-2.5 to 2.5	Pass
					4.43	15.607	0.0219	-2.5 to 2.5	Pass
				-30	3.85	19.269	0.0270	-2.5 to 2.5	Pass

				-20	3.85	20.642	0.0289	-2.5 to 2.5	Pass
				-10	3.85	27.080	0.0380	-2.5 to 2.5	Pass
				0	3.85	28.911	0.0405	-2.5 to 2.5	Pass
				10	3.85	32.473	0.0455	-2.5 to 2.5	Pass
				30	3.85	34.633	0.0485	-2.5 to 2.5	Pass
				40	3.85	36.335	0.0509	-2.5 to 2.5	Pass
				50	3.85	39.310	0.0551	-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	-33.803	-0.0477	-2.5 to 2.5	Pass
					3.85	-43.731	-0.0617	-2.5 to 2.5	Pass
					4.43	-33.760	-0.0476	-2.5 to 2.5	Pass
				-30	3.85	-44.460	-0.0627	-2.5 to 2.5	Pass
				-20	3.85	-40.398	-0.0570	-2.5 to 2.5	Pass
				-10	3.85	-29.554	-0.0417	-2.5 to 2.5	Pass
				0	3.85	-6.065	-0.0086	-2.5 to 2.5	Pass
				10	3.85	-28.210	-0.0398	-2.5 to 2.5	Pass
				30	3.85	-39.268	-0.0554	-2.5 to 2.5	Pass
				40	3.85	-41.041	-0.0579	-2.5 to 2.5	Pass
				50	3.85	-31.385	-0.0443	-2.5 to 2.5	Pass
	710	50	0	20	3.27	6.266	0.0088	-2.5 to 2.5	Pass
					3.85	6.051	0.0085	-2.5 to 2.5	Pass
					4.43	-1.001	-0.0014	-2.5 to 2.5	Pass
				-30	3.85	-4.435	-0.0062	-2.5 to 2.5	Pass
				-20	3.85	-5.164	-0.0073	-2.5 to 2.5	Pass
				-10	3.85	-6.423	-0.0090	-2.5 to 2.5	Pass
				0	3.85	-4.992	-0.0070	-2.5 to 2.5	Pass
				10	3.85	-7.353	-0.0104	-2.5 to 2.5	Pass
				30	3.85	-5.164	-0.0073	-2.5 to 2.5	Pass
				40	3.85	-7.124	-0.0100	-2.5 to 2.5	Pass
				50	3.85	-4.277	-0.0060	-2.5 to 2.5	Pass
	711	50	0	20	3.27	10.357	0.0146	-2.5 to 2.5	Pass
					3.85	-2.818	-0.0040	-2.5 to 2.5	Pass
					4.43	-26.579	-0.0374	-2.5 to 2.5	Pass
				-30	3.85	-39.096	-0.0550	-2.5 to 2.5	Pass
				-20	3.85	-43.559	-0.0613	-2.5 to 2.5	Pass
				-10	3.85	-3.476	-0.0049	-2.5 to 2.5	Pass
				0	3.85	-6.380	-0.0090	-2.5 to 2.5	Pass
				10	3.85	-8.883	-0.0125	-2.5 to 2.5	Pass
				30	3.85	-11.473	-0.0161	-2.5 to 2.5	Pass
				40	3.85	-12.403	-0.0174	-2.5 to 2.5	Pass
				50	3.85	-17.152	-0.0241	-2.5 to 2.5	Pass
16QAM	709	50	0	20	3.27	-19.627	-0.0277	-2.5 to 2.5	Pass
					3.85	-6.595	-0.0093	-2.5 to 2.5	Pass
					4.43	3.977	0.0056	-2.5 to 2.5	Pass
				-30	3.85	13.661	0.0193	-2.5 to 2.5	Pass
				-20	3.85	20.728	0.0292	-2.5 to 2.5	Pass
				-10	3.85	30.313	0.0428	-2.5 to 2.5	Pass
				0	3.85	36.864	0.0520	-2.5 to 2.5	Pass
				10	3.85	42.286	0.0596	-2.5 to 2.5	Pass
				30	3.85	-1.302	-0.0018	-2.5 to 2.5	Pass
				40	3.85	2.689	0.0038	-2.5 to 2.5	Pass
				50	3.85	7.153	0.0101	-2.5 to 2.5	Pass
	710	50	0	20	3.27	-2.046	-0.0029	-2.5 to 2.5	Pass

					3.85	11.945	0.0168	-2.5 to 2.5	Pass
					4.43	20.928	0.0295	-2.5 to 2.5	Pass
				-30	3.85	33.331	0.0469	-2.5 to 2.5	Pass
				-20	3.85	41.299	0.0582	-2.5 to 2.5	Pass
				-10	3.85	3.519	0.0050	-2.5 to 2.5	Pass
				0	3.85	-26.751	-0.0377	-2.5 to 2.5	Pass
				10	3.85	-45.962	-0.0647	-2.5 to 2.5	Pass
				30	3.85	-7.567	-0.0107	-2.5 to 2.5	Pass
				40	3.85	-18.511	-0.0261	-2.5 to 2.5	Pass
				50	3.85	-28.238	-0.0398	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-16.422	-0.0231	-2.5 to 2.5	Pass
					3.85	-8.798	-0.0124	-2.5 to 2.5	Pass
					4.43	-3.376	-0.0047	-2.5 to 2.5	Pass
				-30	3.85	0.615	0.0009	-2.5 to 2.5	Pass
				-20	3.85	3.676	0.0052	-2.5 to 2.5	Pass
				-10	3.85	7.753	0.0109	-2.5 to 2.5	Pass
				0	3.85	10.571	0.0149	-2.5 to 2.5	Pass
				10	3.85	13.318	0.0187	-2.5 to 2.5	Pass
				30	3.85	15.335	0.0216	-2.5 to 2.5	Pass
				40	3.85	18.539	0.0261	-2.5 to 2.5	Pass
				50	3.85	20.499	0.0288	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B17_5MHz

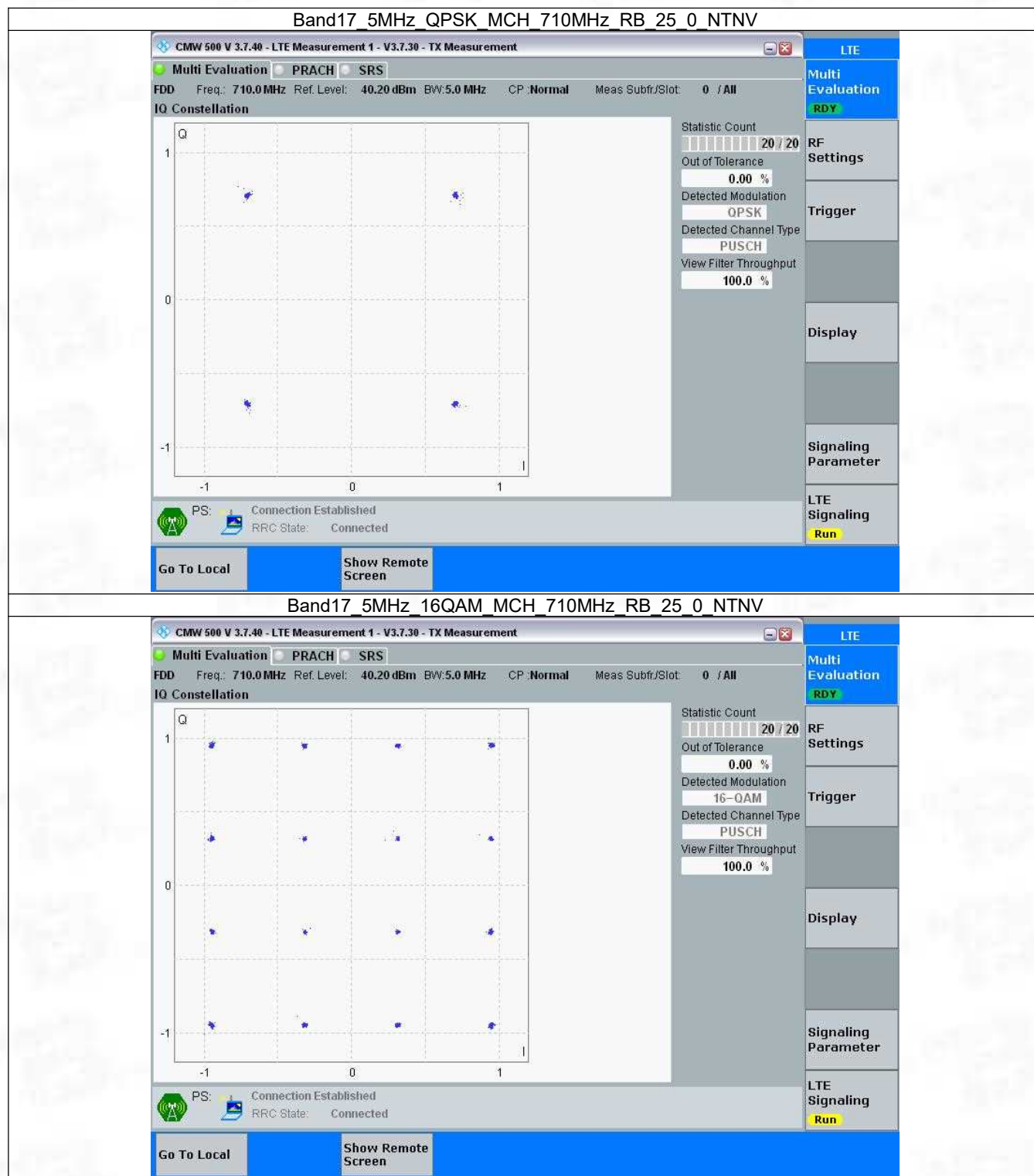
Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	710	25	0	Refer To Test Graph		Pass
16QAM	710	25	0	Refer To Test Graph		Pass

3.1.2 B17_10MHz

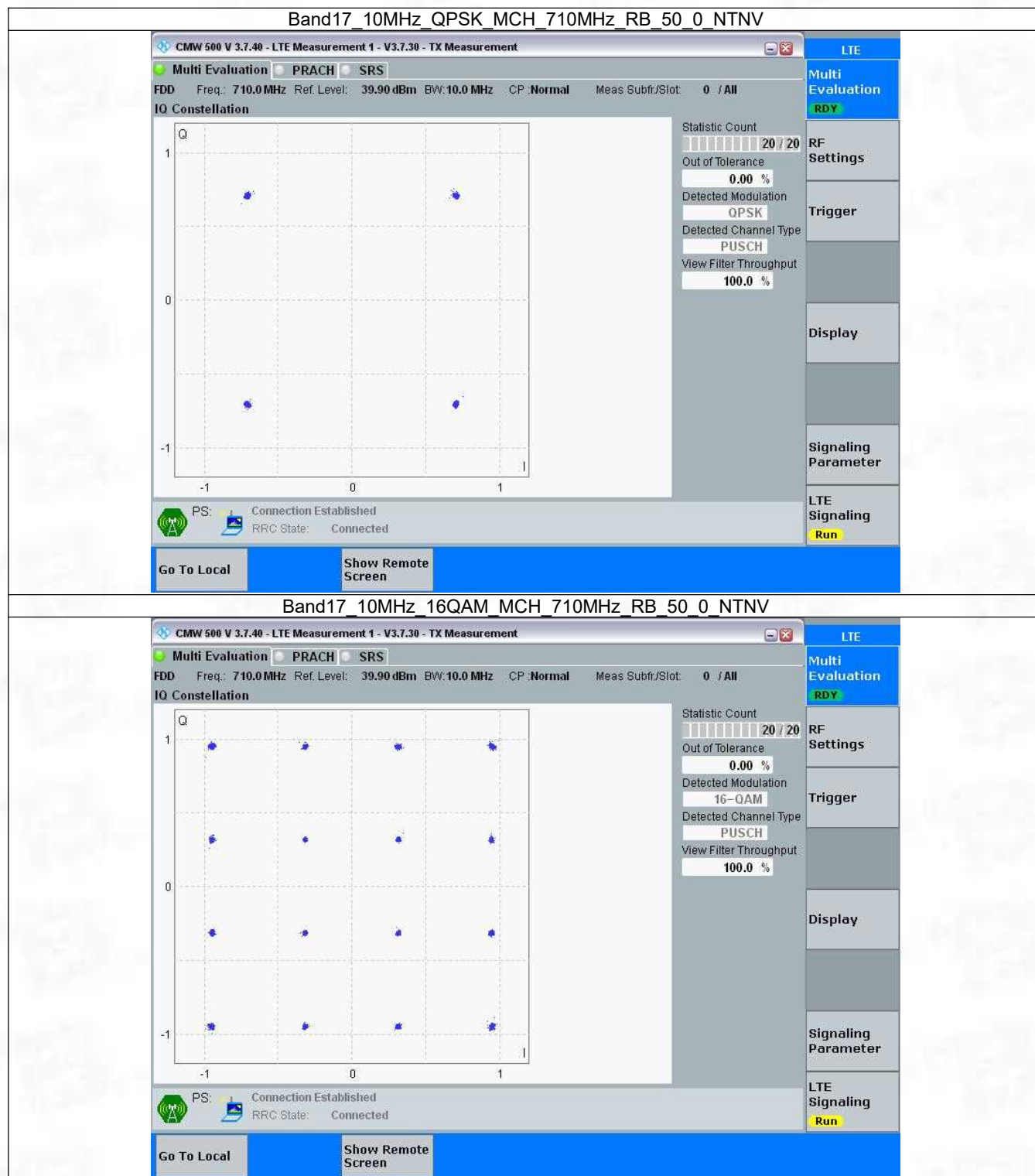
Band: 17 / Bandwidth: 10MHz / NTNv						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	710	50	0	Refer To Test Graph		Pass
16QAM	710	50	0	Refer To Test Graph		Pass

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

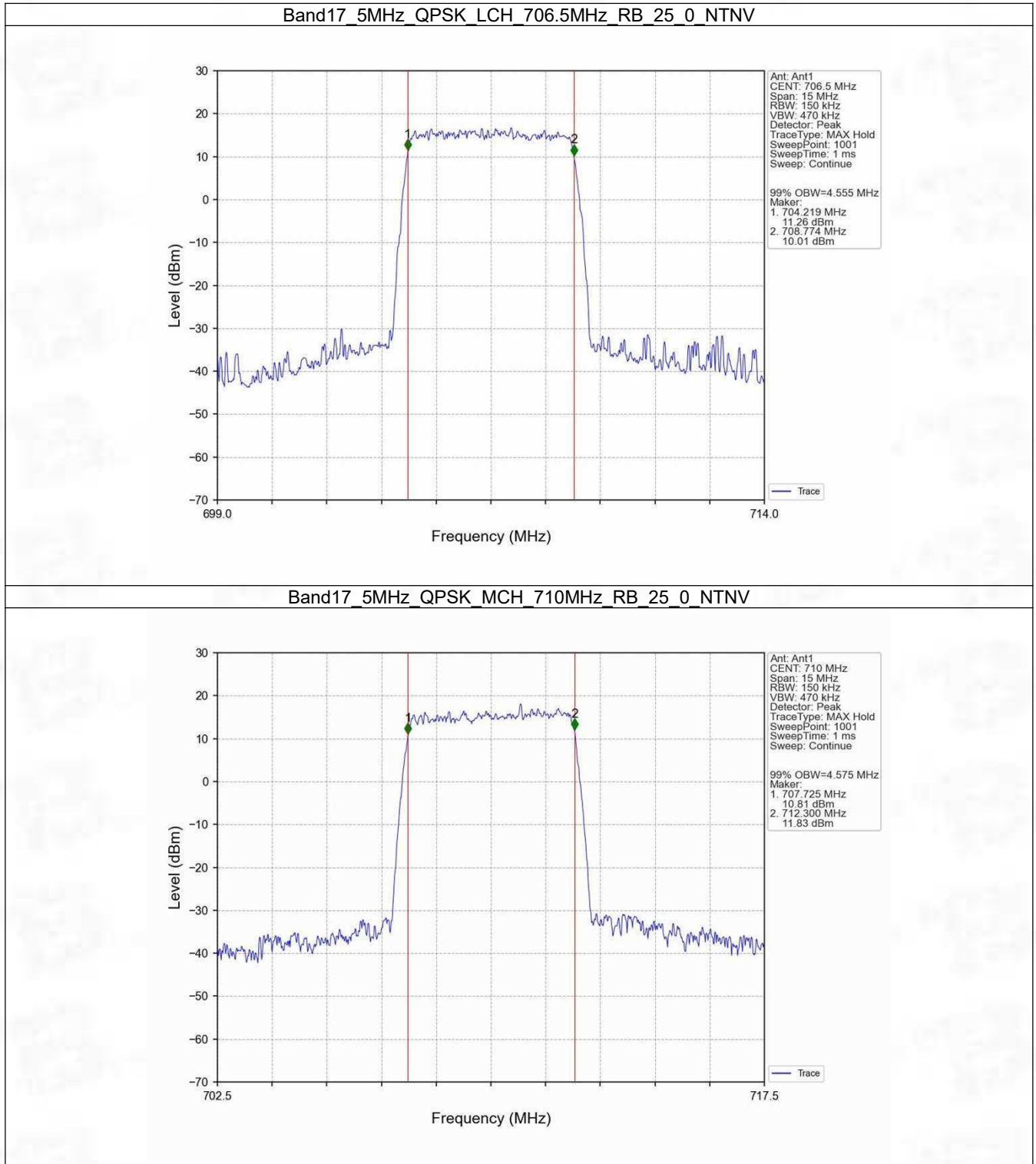
Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	4.555	/	Pass
		710	25	0	4.575	/	Pass
		713.5	25	0	4.539	/	Pass
	16QAM	706.5	25	0	4.548	/	Pass
		710	25	0	4.543	/	Pass
		713.5	25	0	4.536	/	Pass
10	QPSK	709	50	0	9.061	/	Pass
		710	50	0	9.055	/	Pass
		711	50	0	9.031	/	Pass
	16QAM	709	50	0	9.076	/	Pass
		710	50	0	9.067	/	Pass
		711	50	0	9.037	/	Pass

4.1.2 Band17_XDB

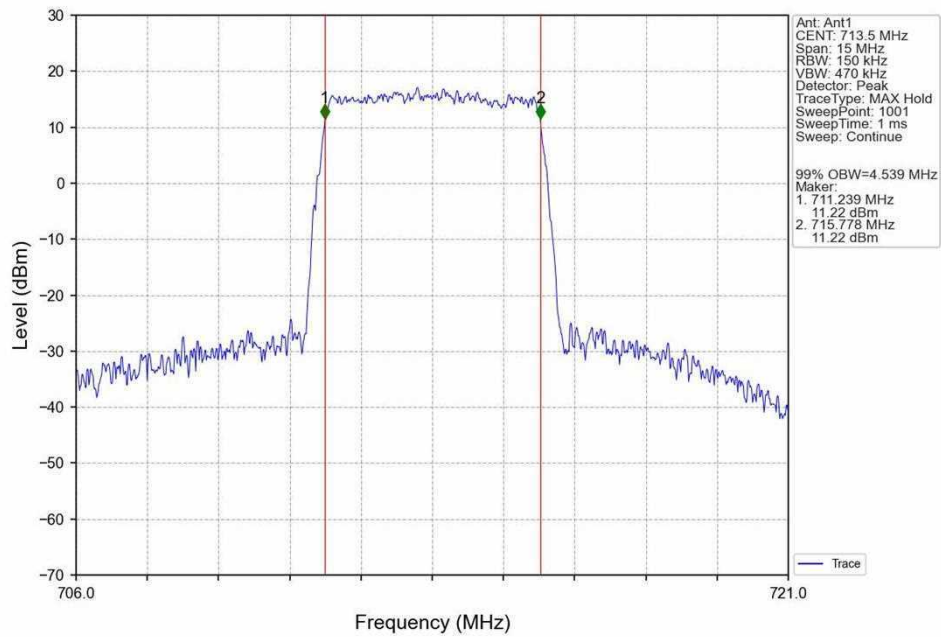
Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	5.058	/	Pass
		710	25	0	5.056	/	Pass
		713.5	25	0	5.059	/	Pass
	16QAM	706.5	25	0	5.059	/	Pass
		710	25	0	5.035	/	Pass
		713.5	25	0	5.047	/	Pass
10	QPSK	709	50	0	9.974	/	Pass
		710	50	0	10.019	/	Pass
		711	50	0	10.031	/	Pass
	16QAM	709	50	0	10.046	/	Pass
		710	50	0	9.996	/	Pass
		711	50	0	10.059	/	Pass

4.2 Test Graph

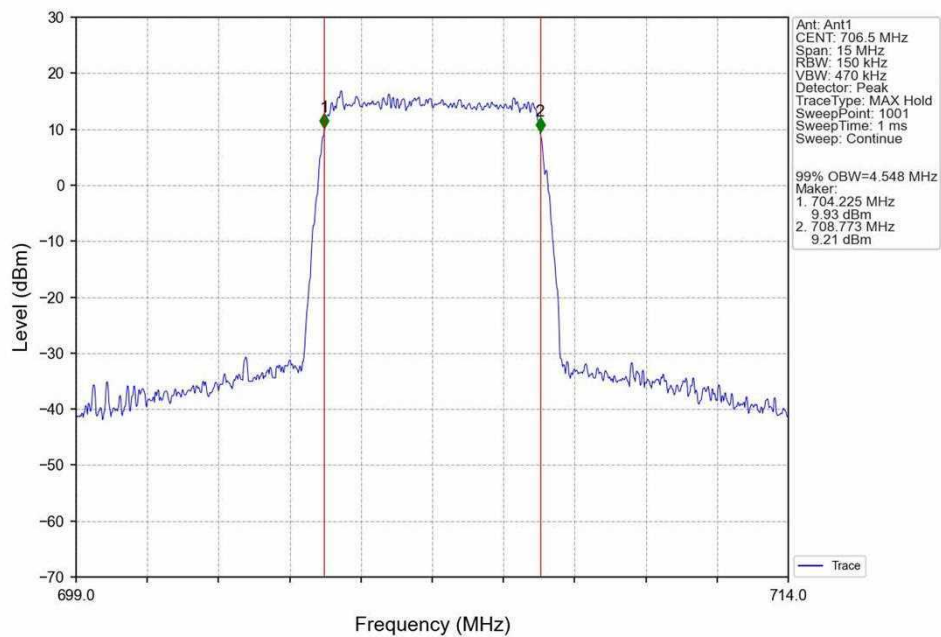
4.2.1 Band17_OBW



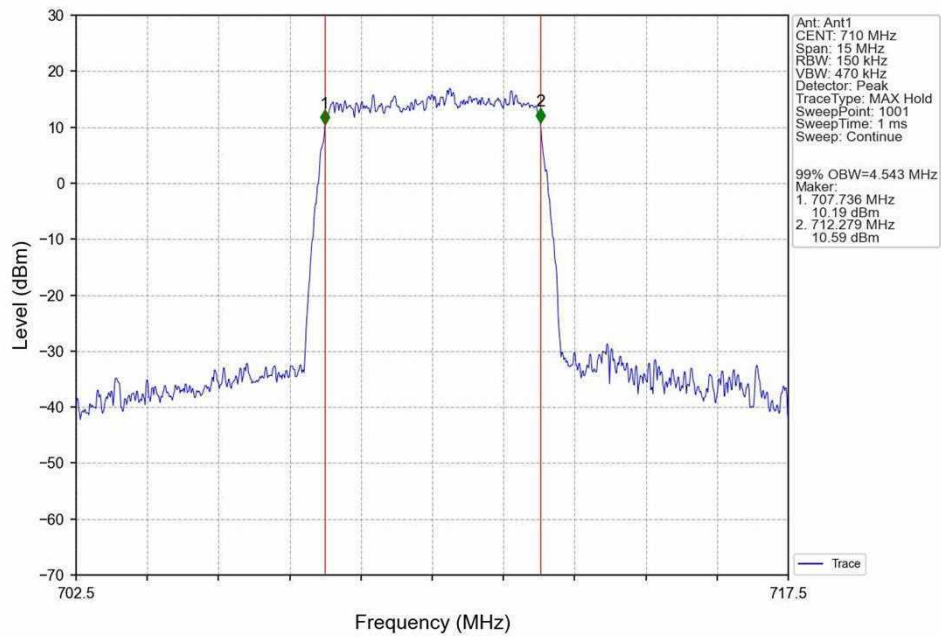
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



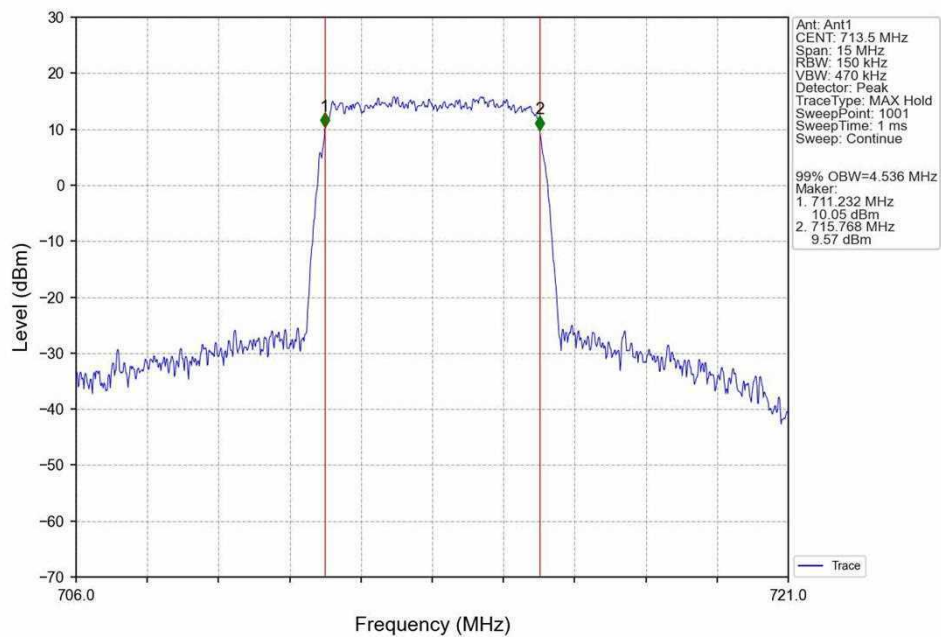
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



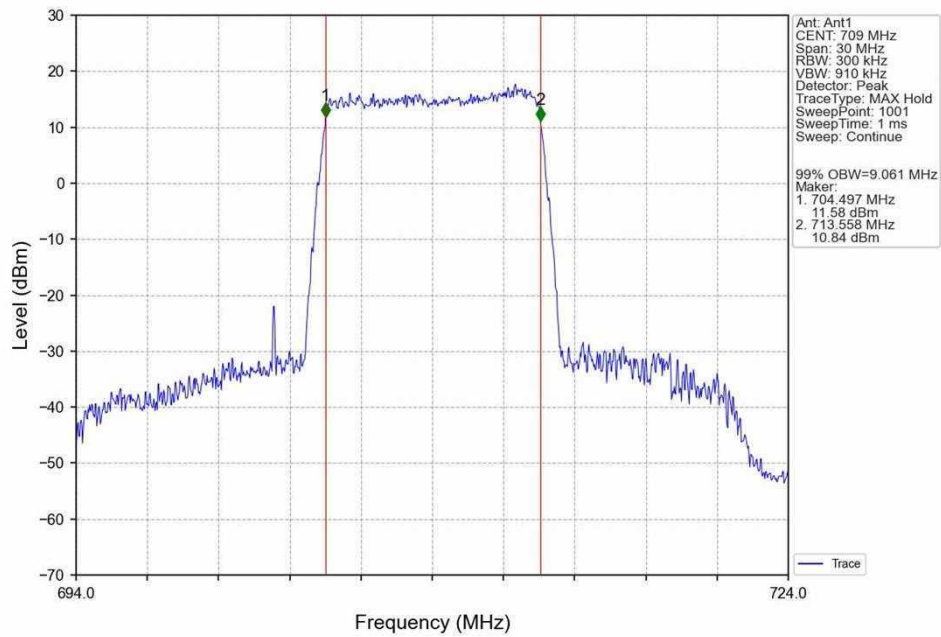
Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



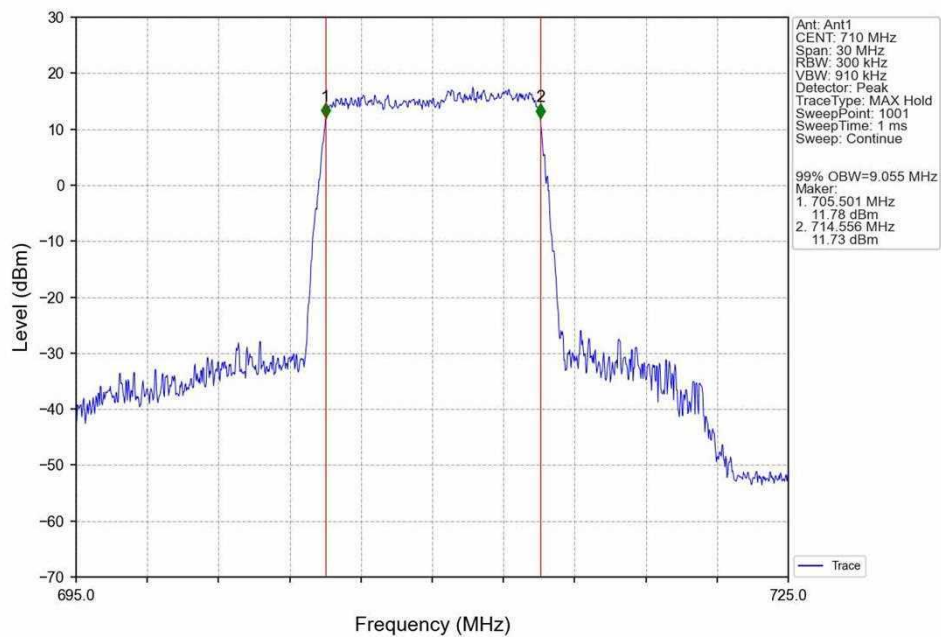
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



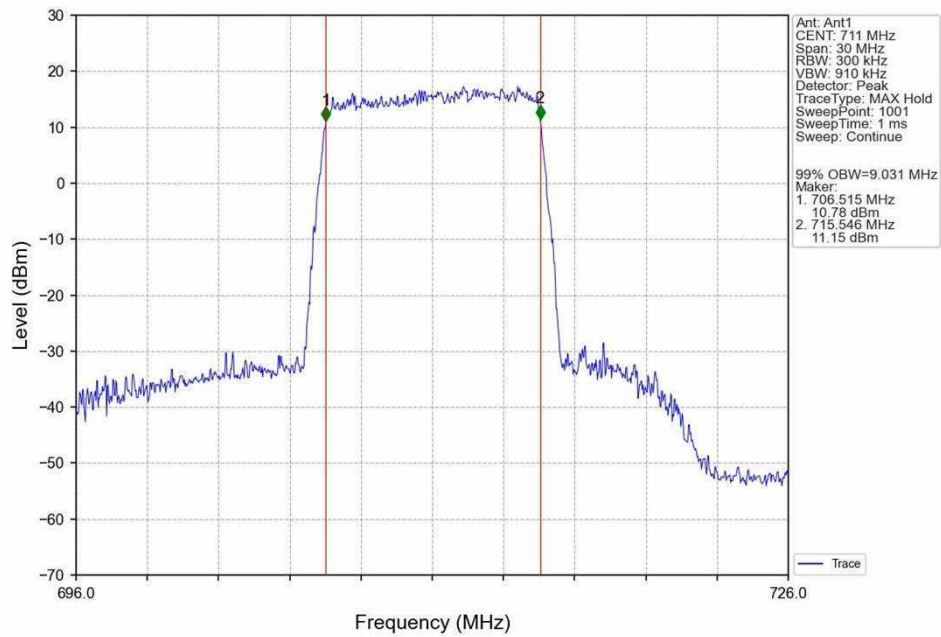
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



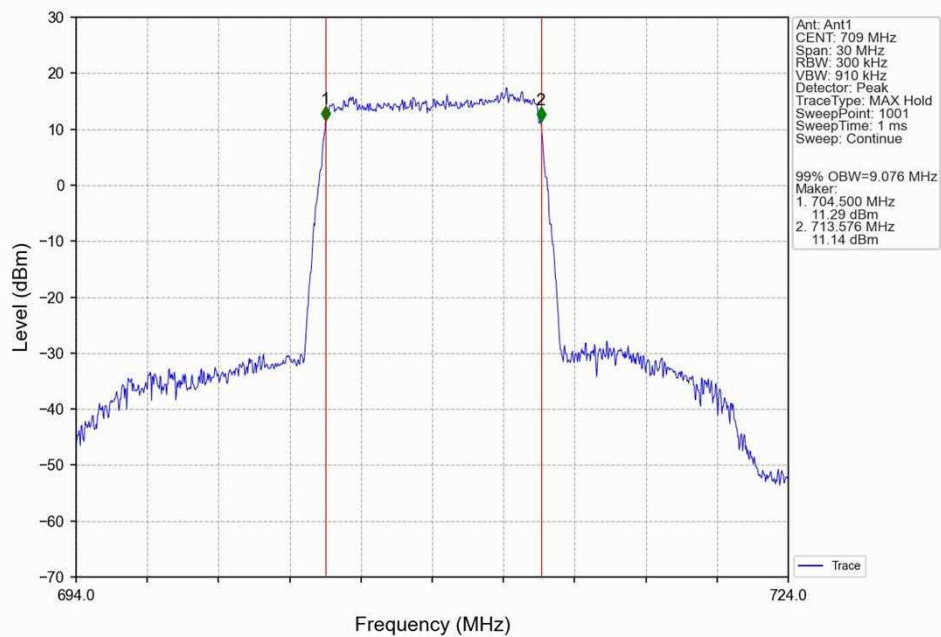
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



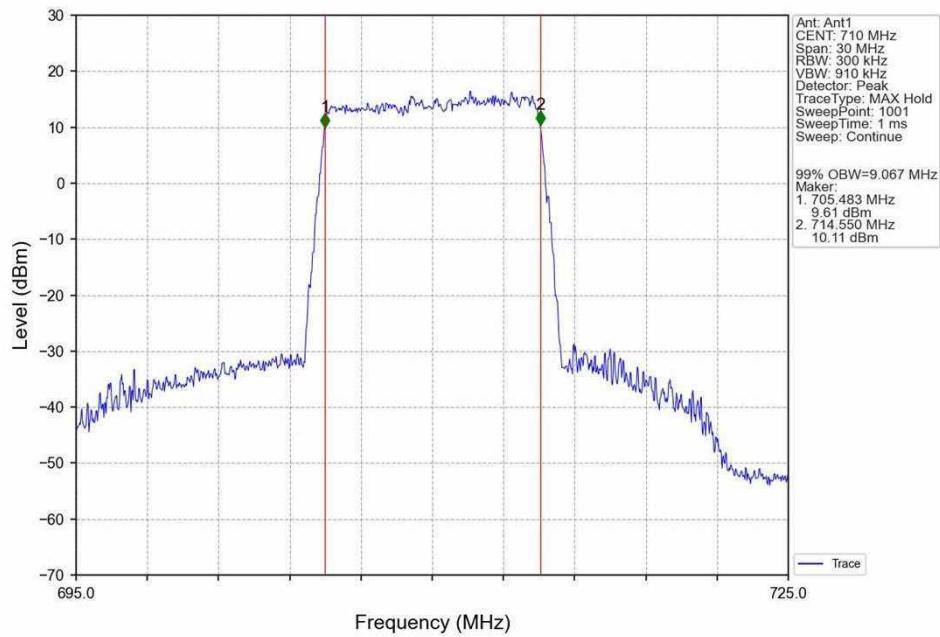
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



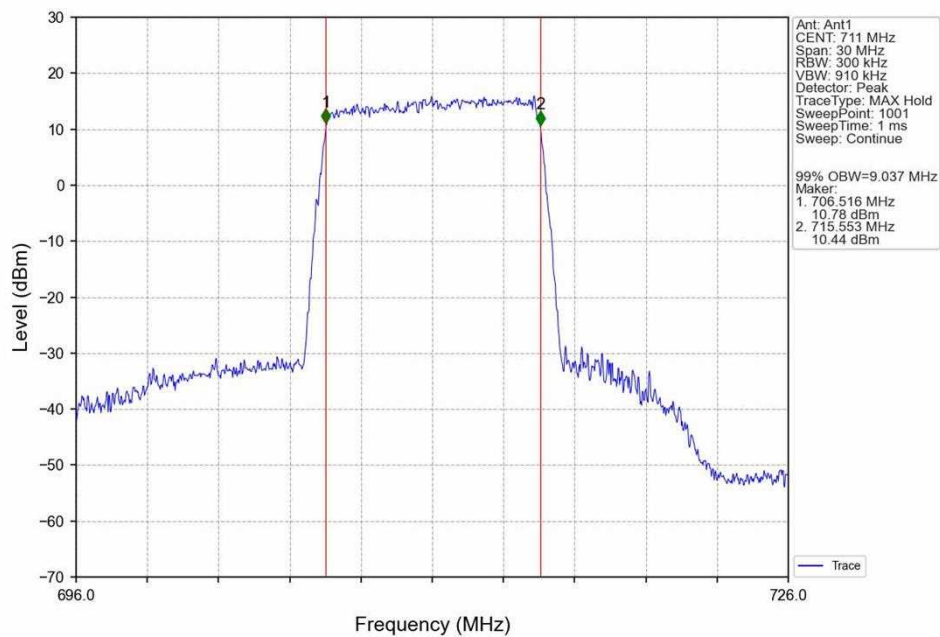
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



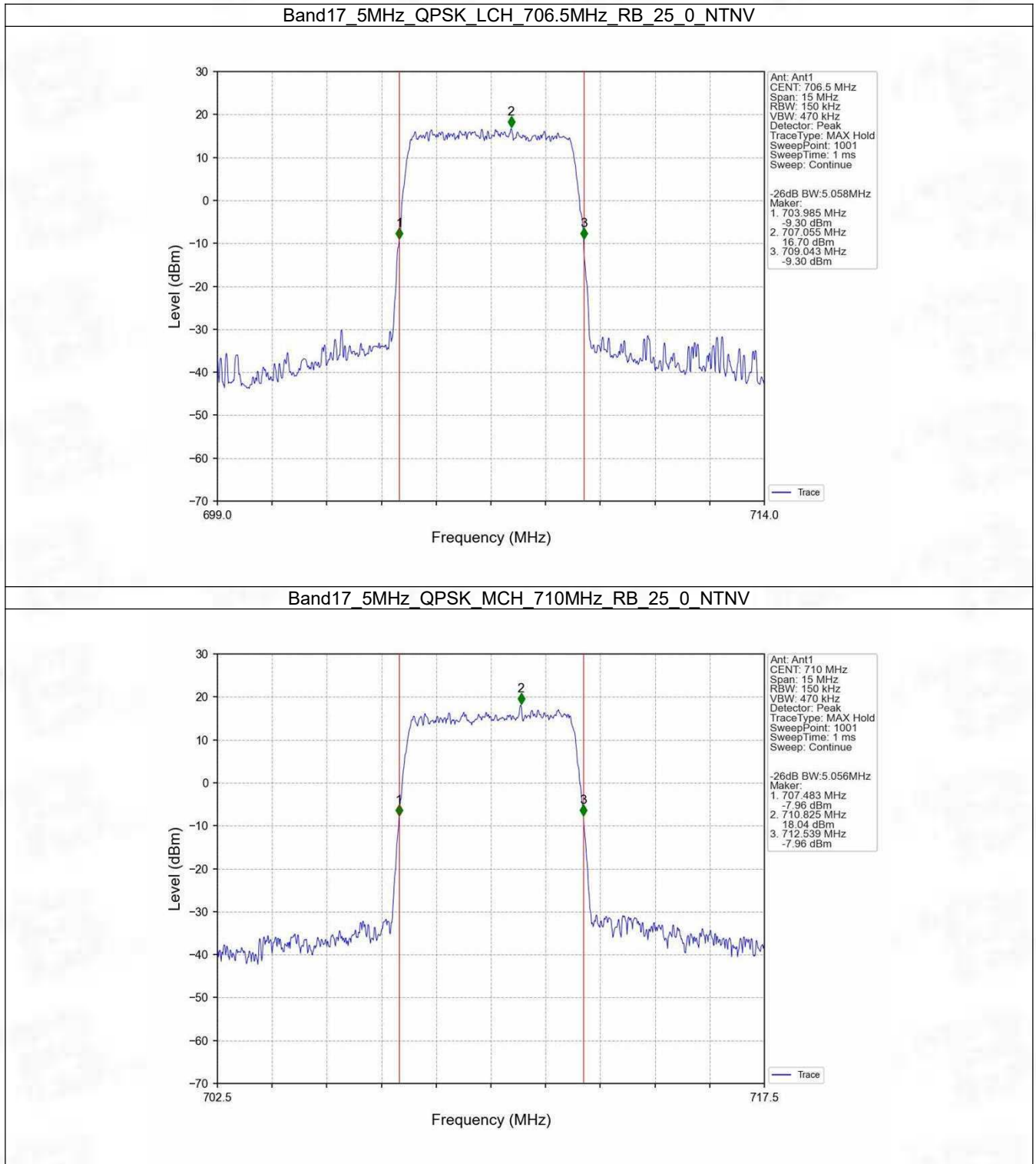
Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



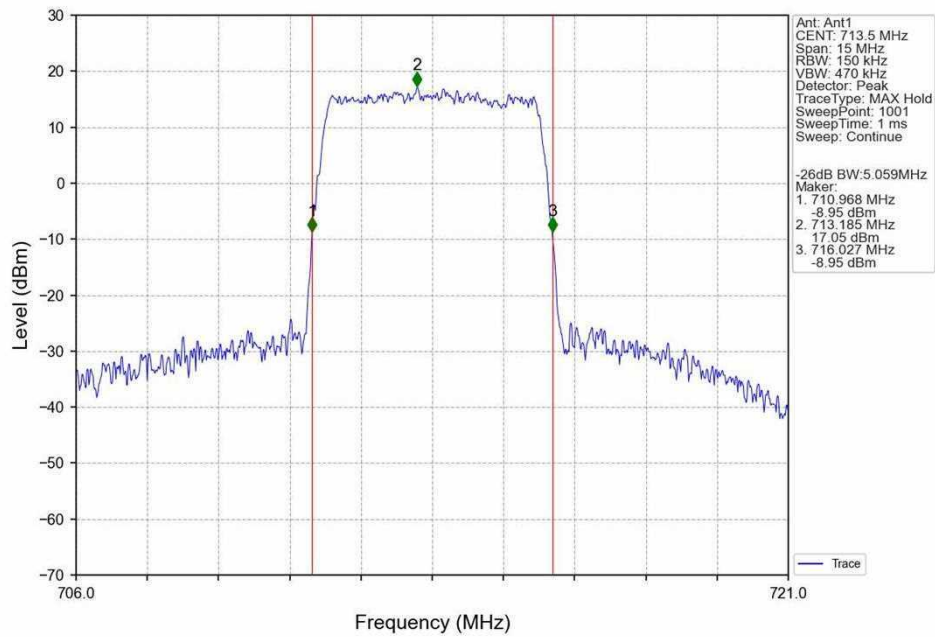
Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



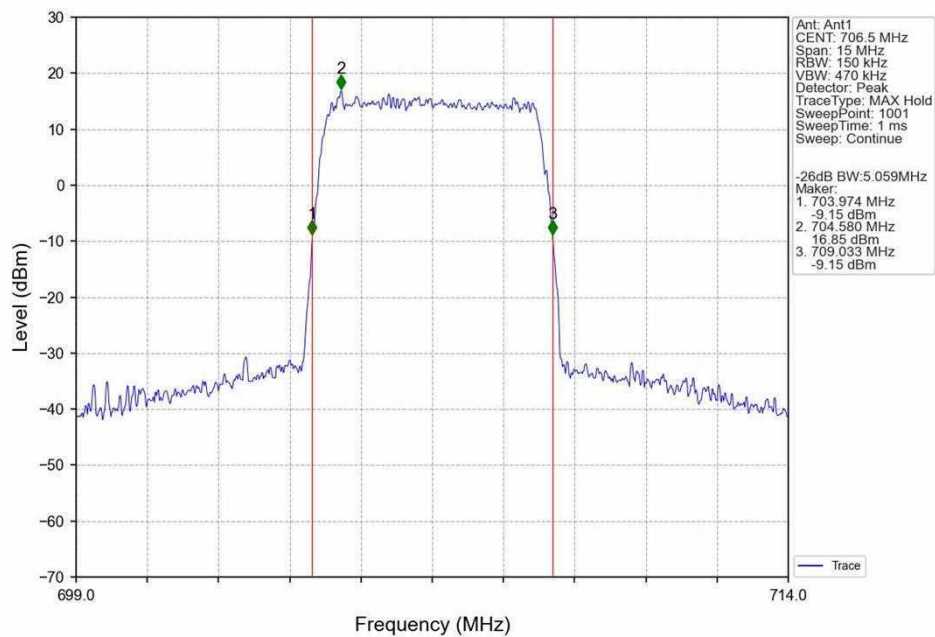
4.2.2 Band17_XDB



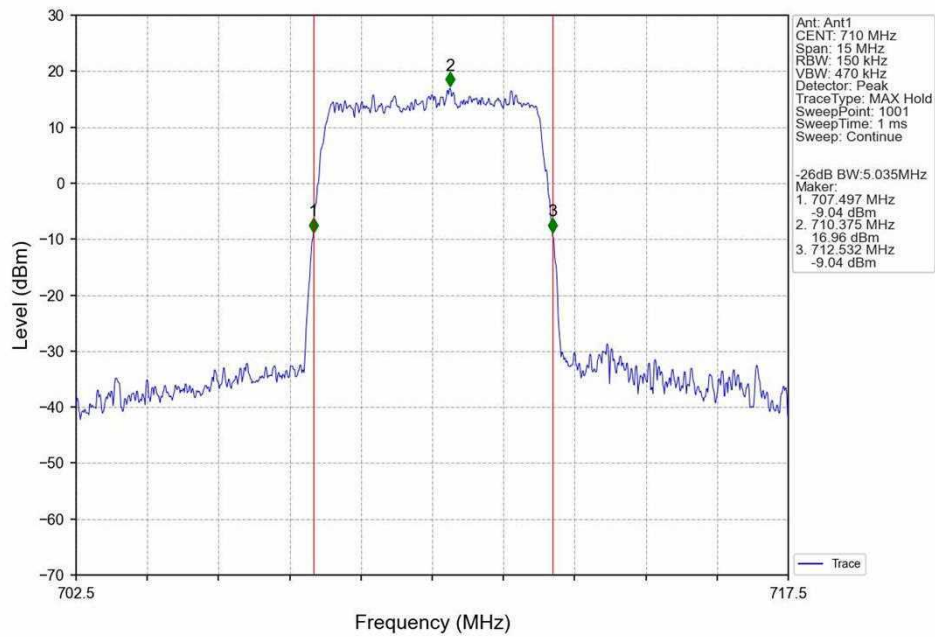
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



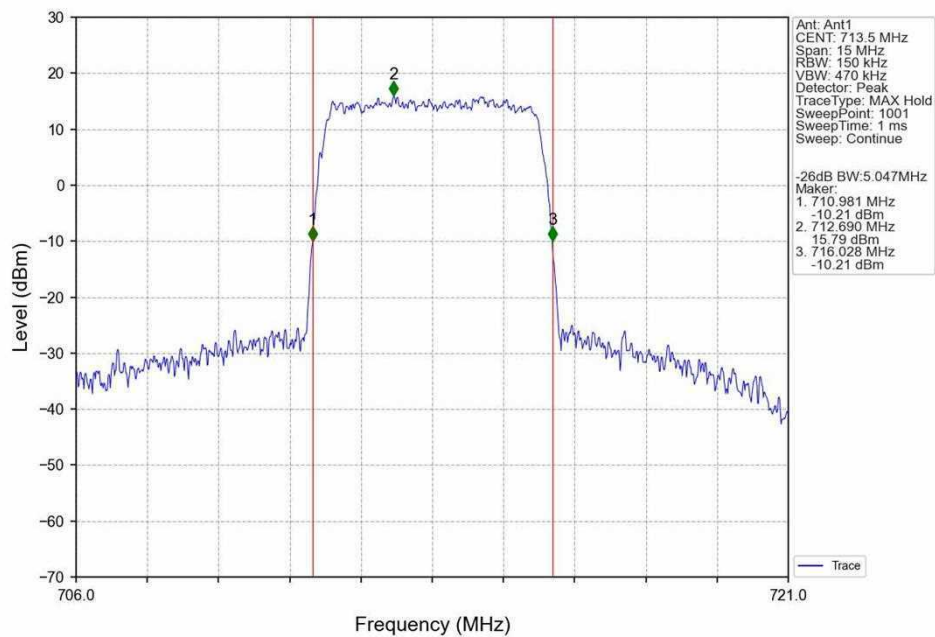
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



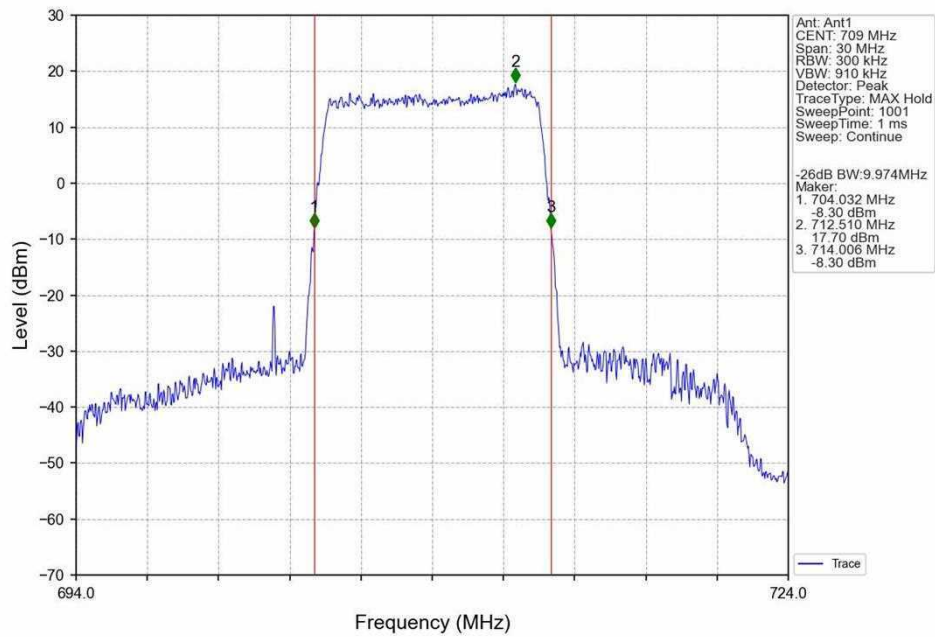
Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



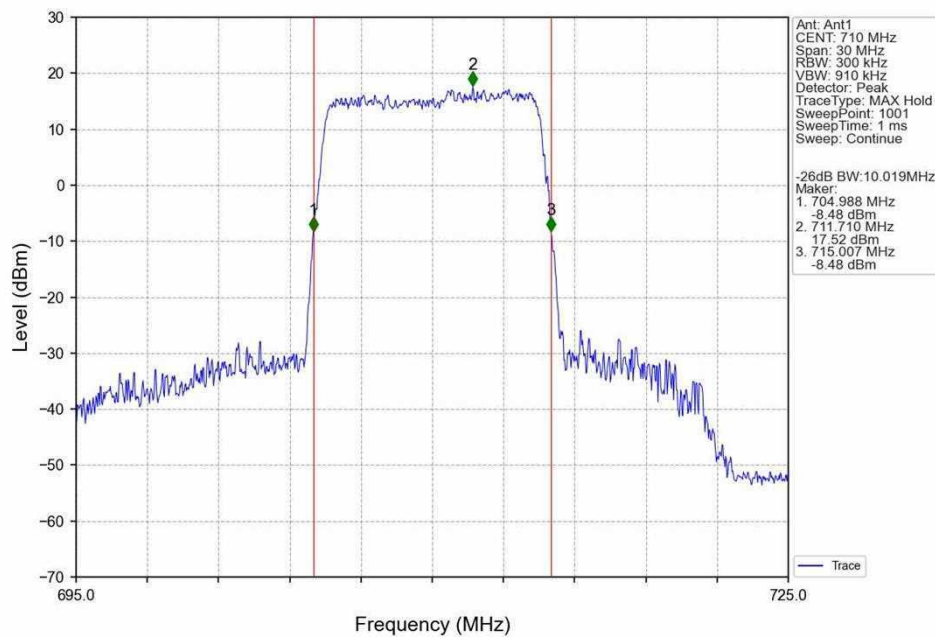
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



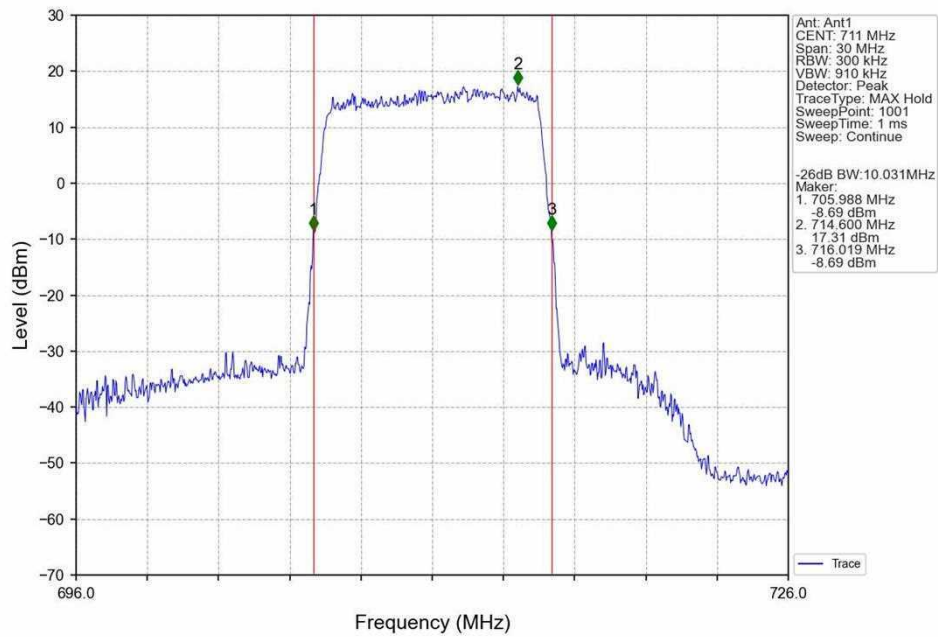
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



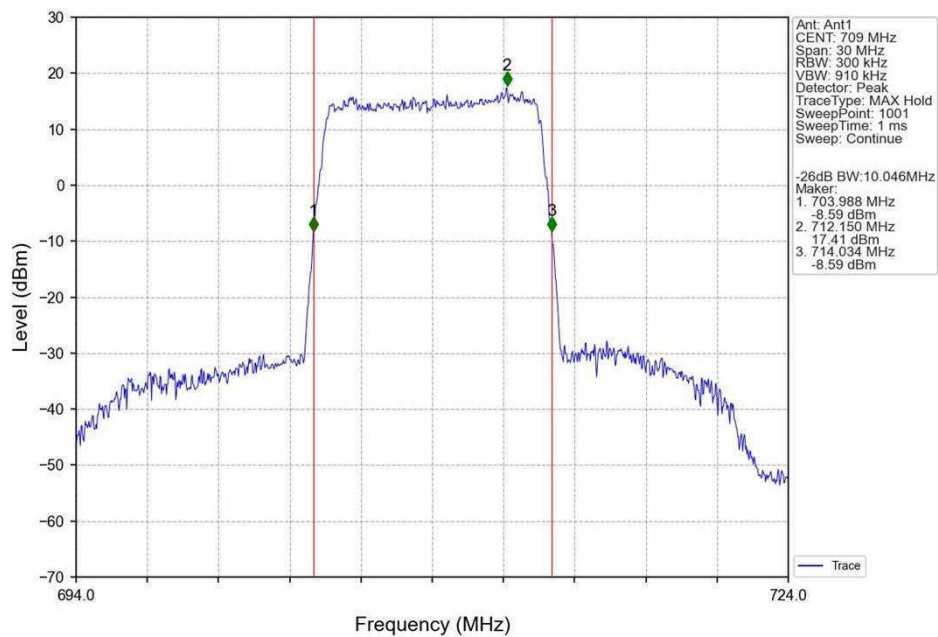
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



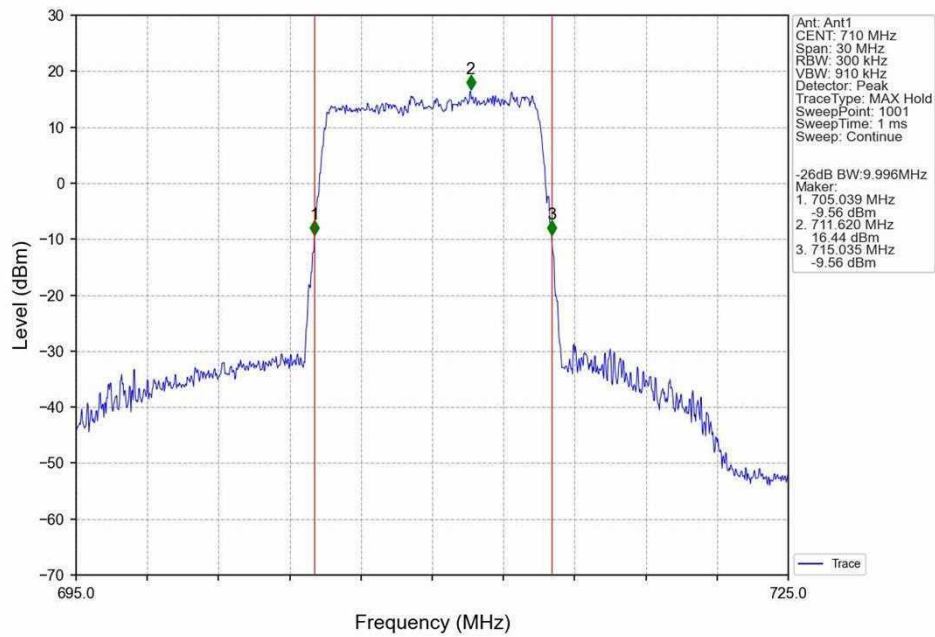
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



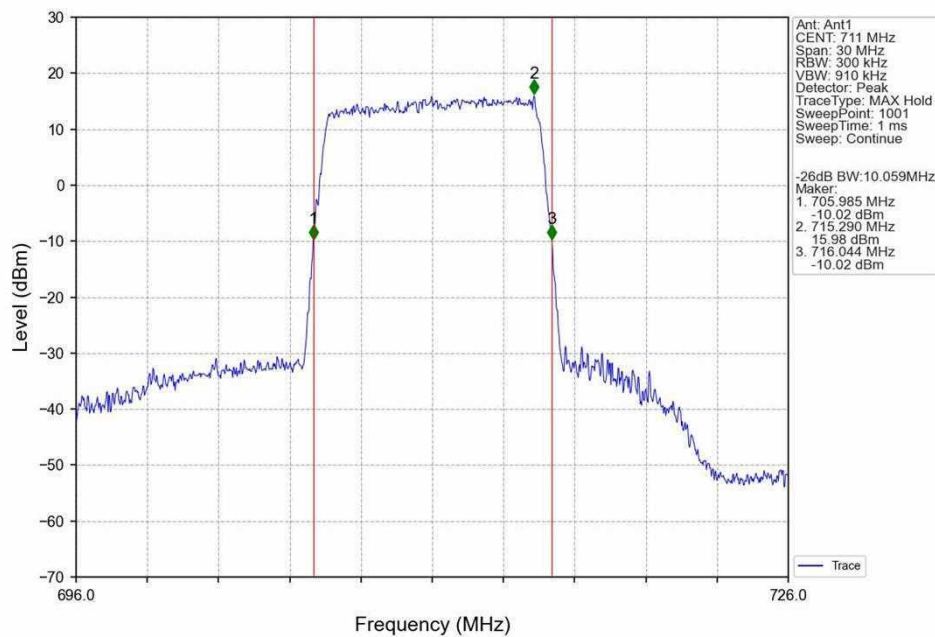
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



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

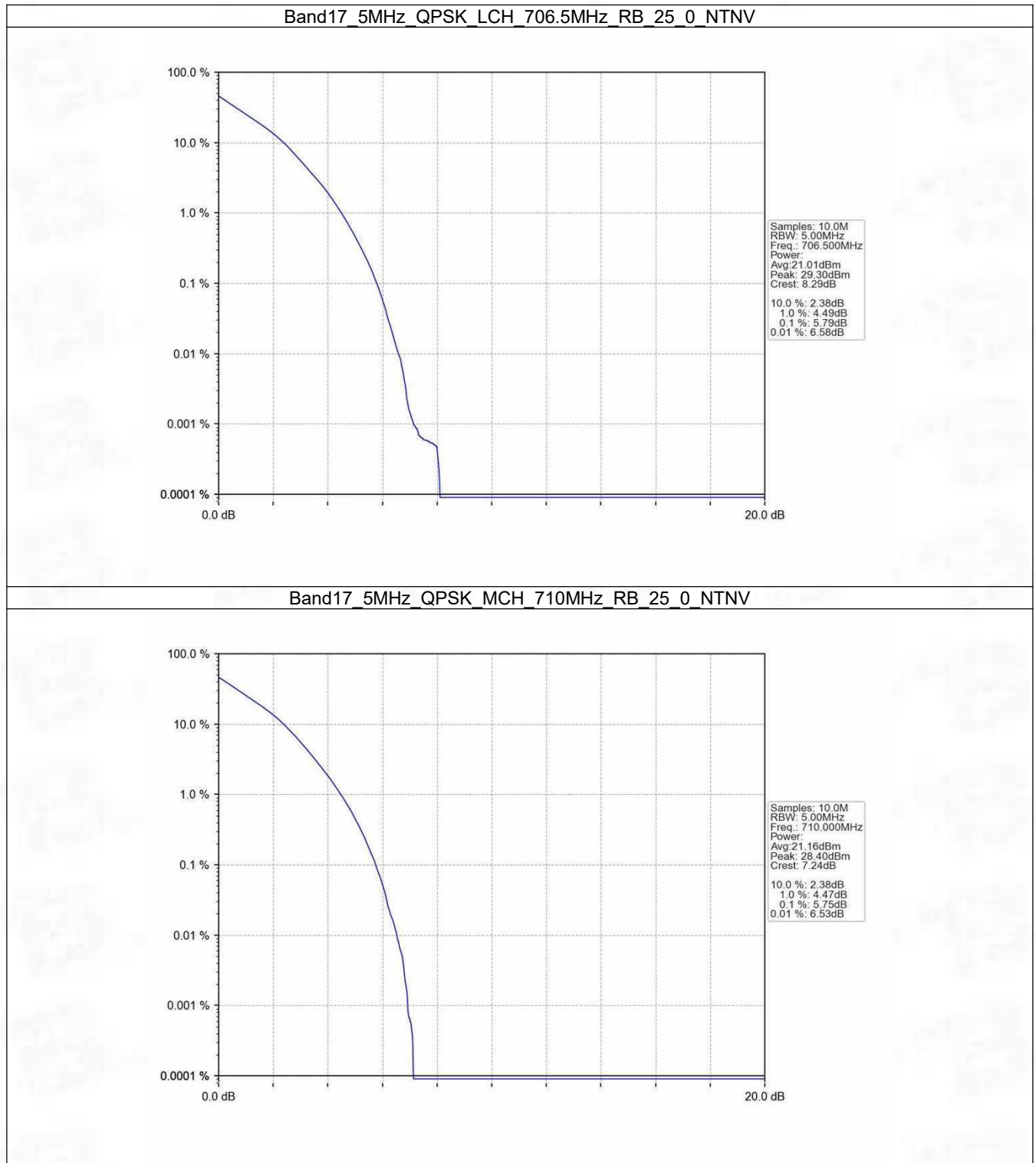
Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	25	0	5.79	≤ 13	Pass
	710	25	0	5.75	≤ 13	Pass
	713.5	25	0	5.53	≤ 13	Pass
16QAM	706.5	25	0	6.47	≤ 13	Pass
	710	25	0	6.42	≤ 13	Pass
	713.5	25	0	6.32	≤ 13	Pass

5.1.2 B17_10MHz

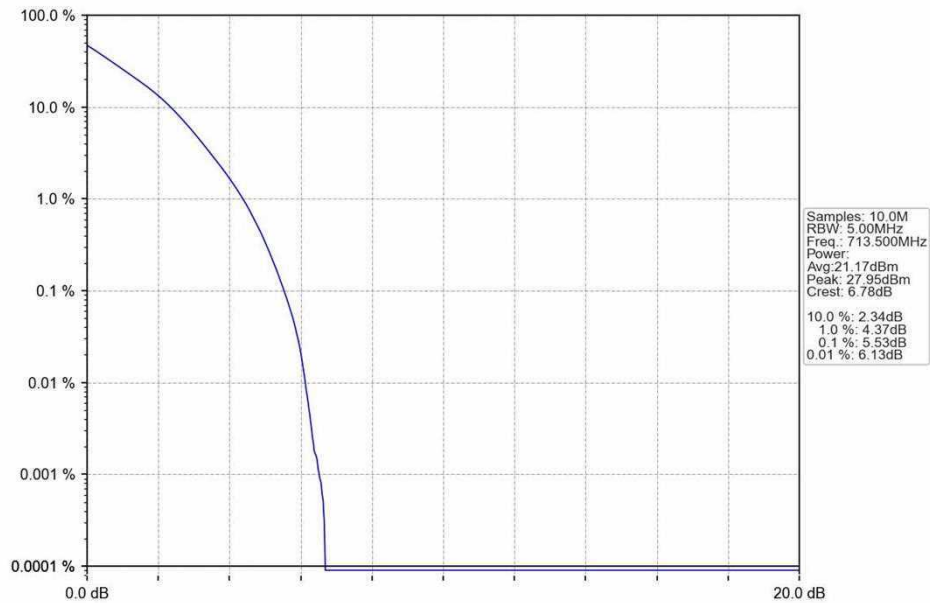
Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	709	50	0	5.84	≤ 13	Pass
	710	50	0	5.73	≤ 13	Pass
	711	50	0	5.67	≤ 13	Pass
16QAM	709	50	0	6.47	≤ 13	Pass
	710	50	0	6.47	≤ 13	Pass
	711	50	0	6.44	≤ 13	Pass

5.2 Test Graph

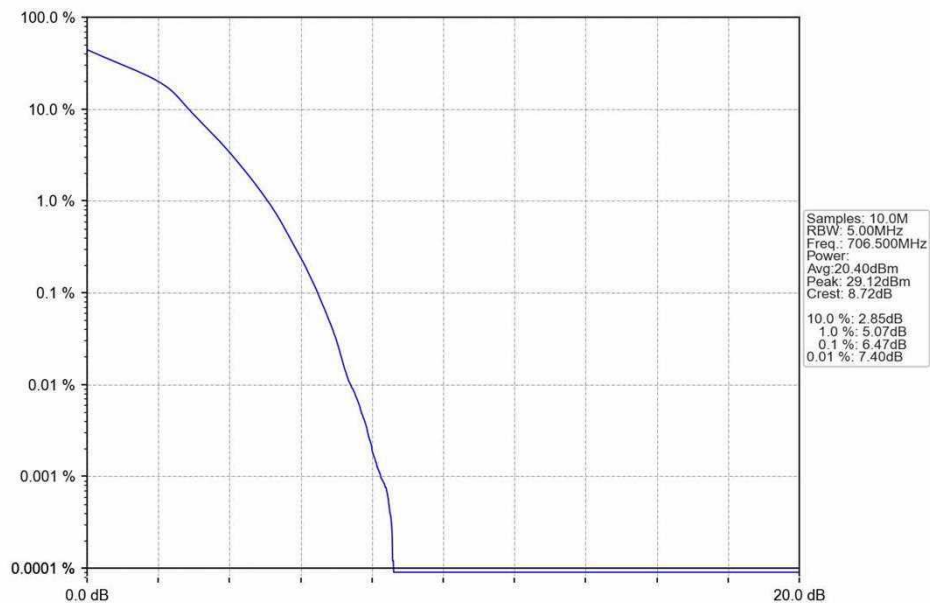
5.2.1 B17_5MHz



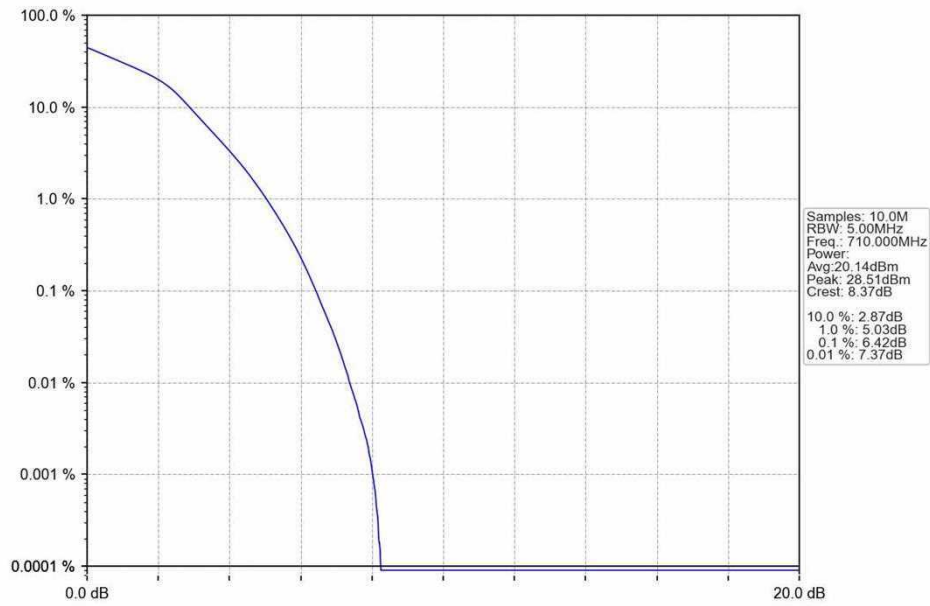
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



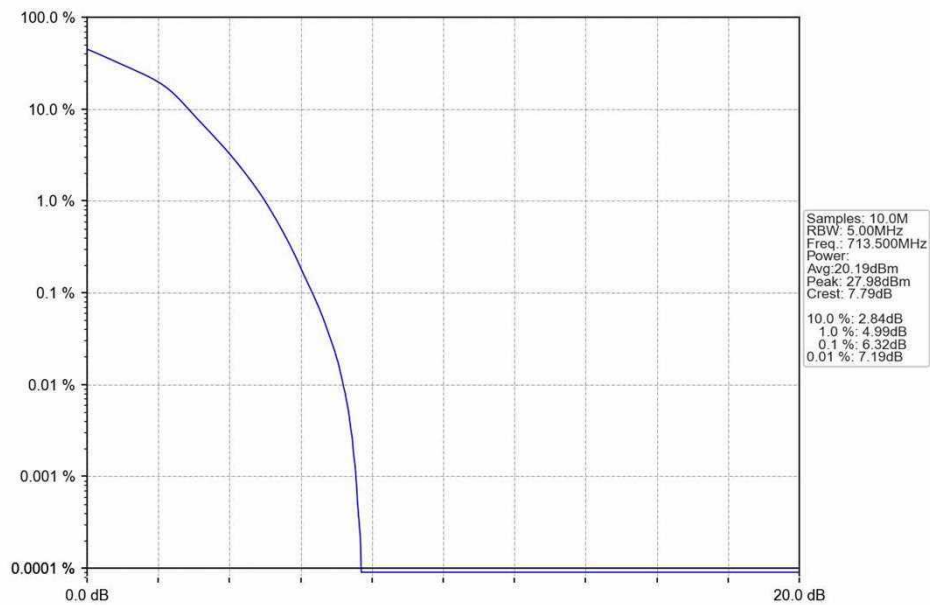
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



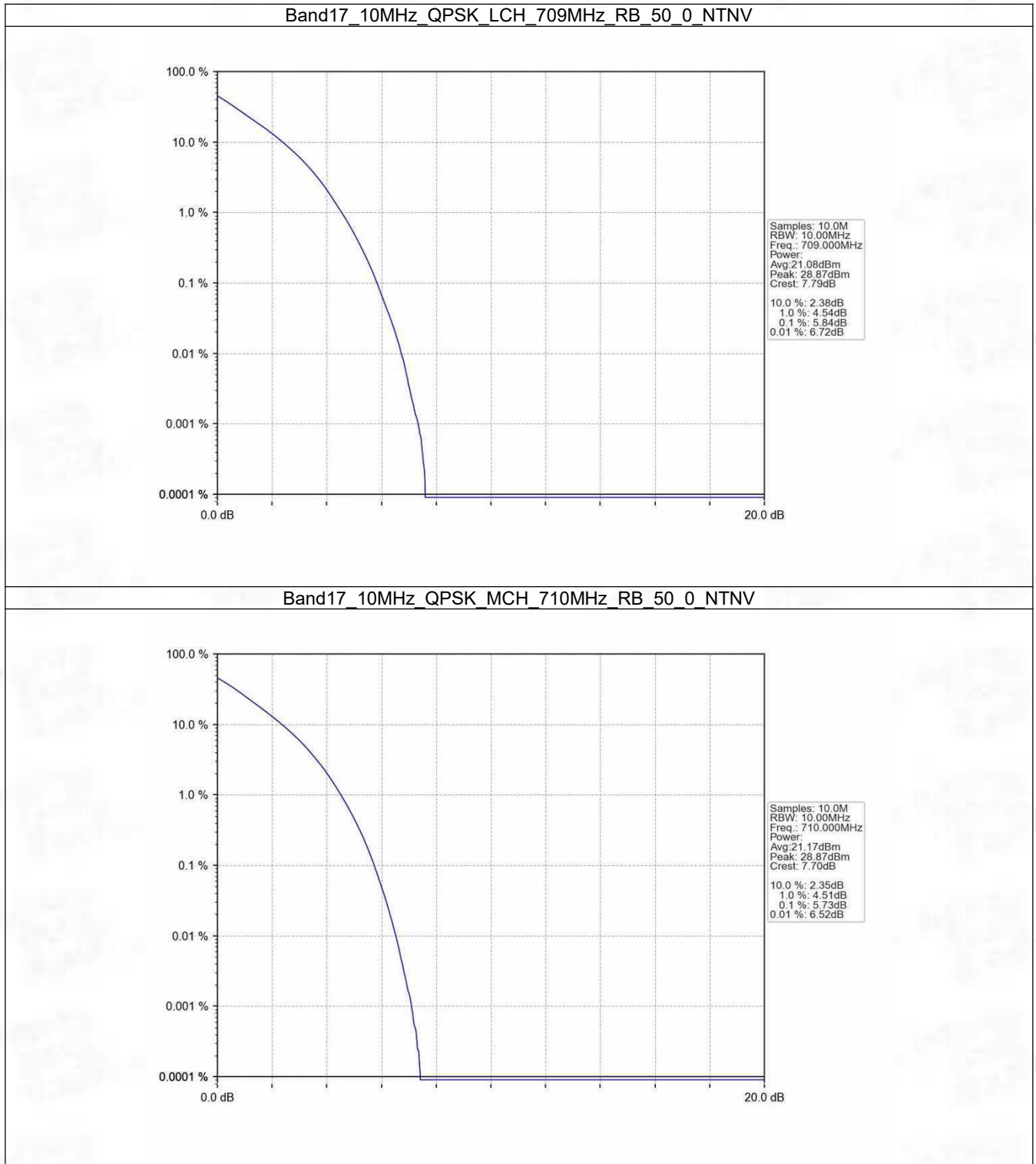
Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



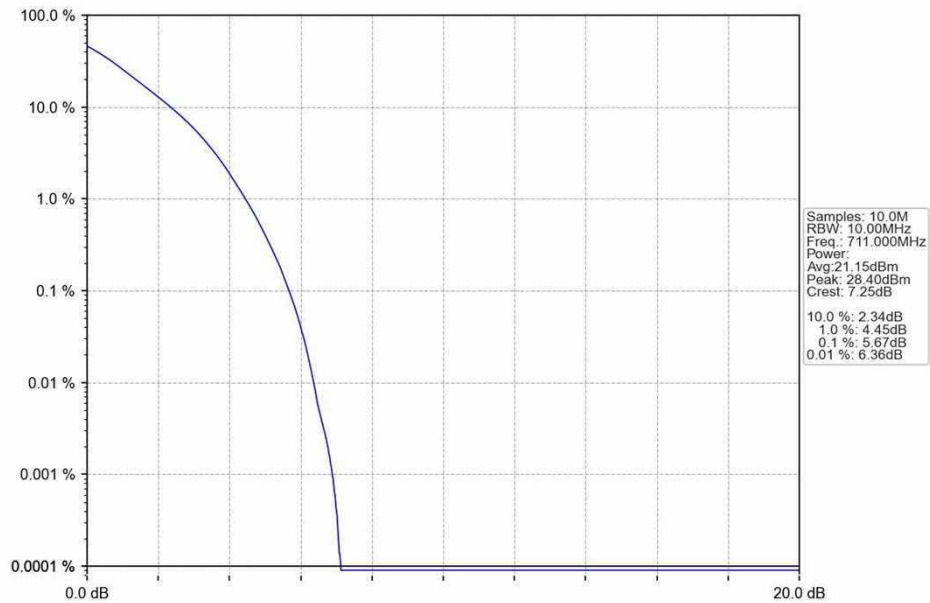
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



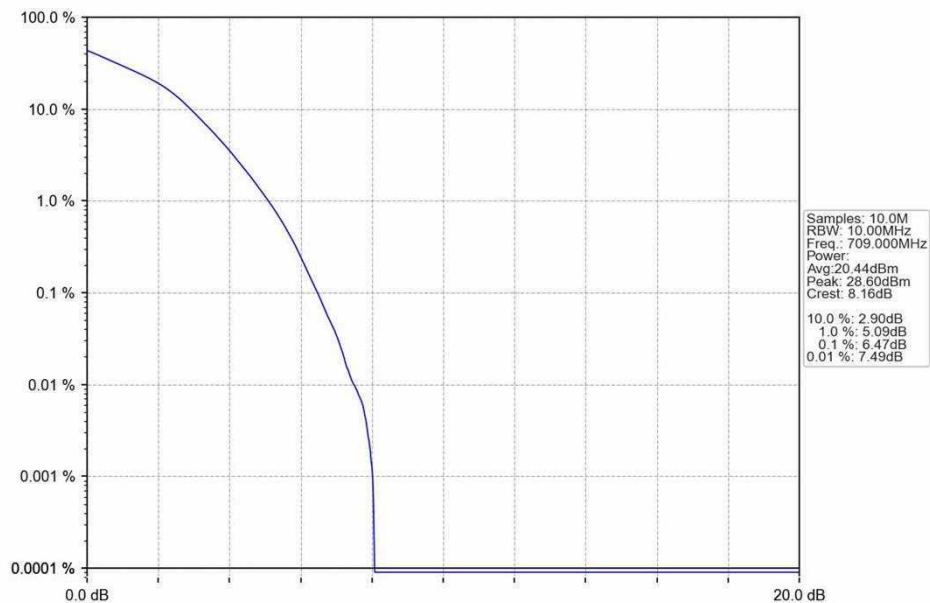
5.2.2 B17_10MHz



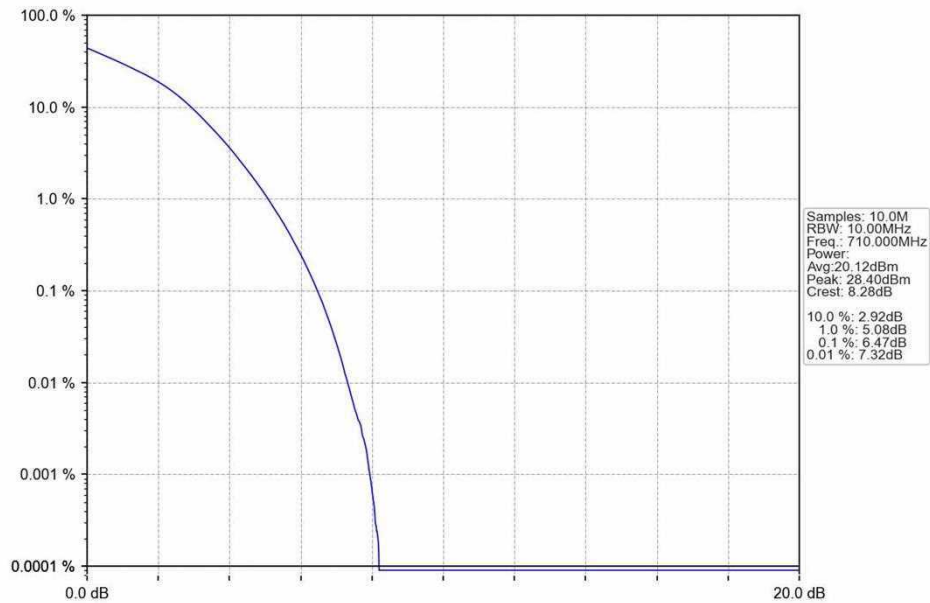
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



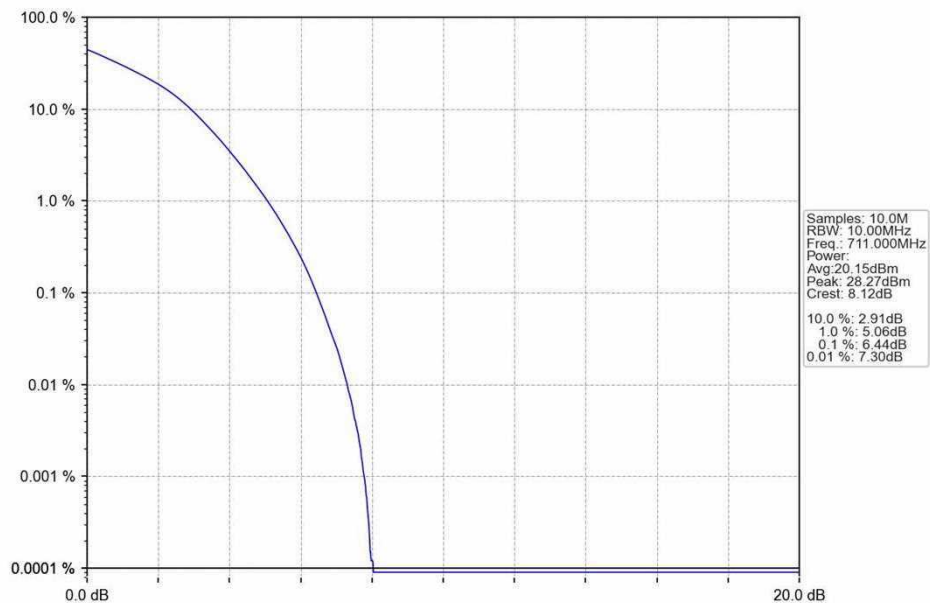
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



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

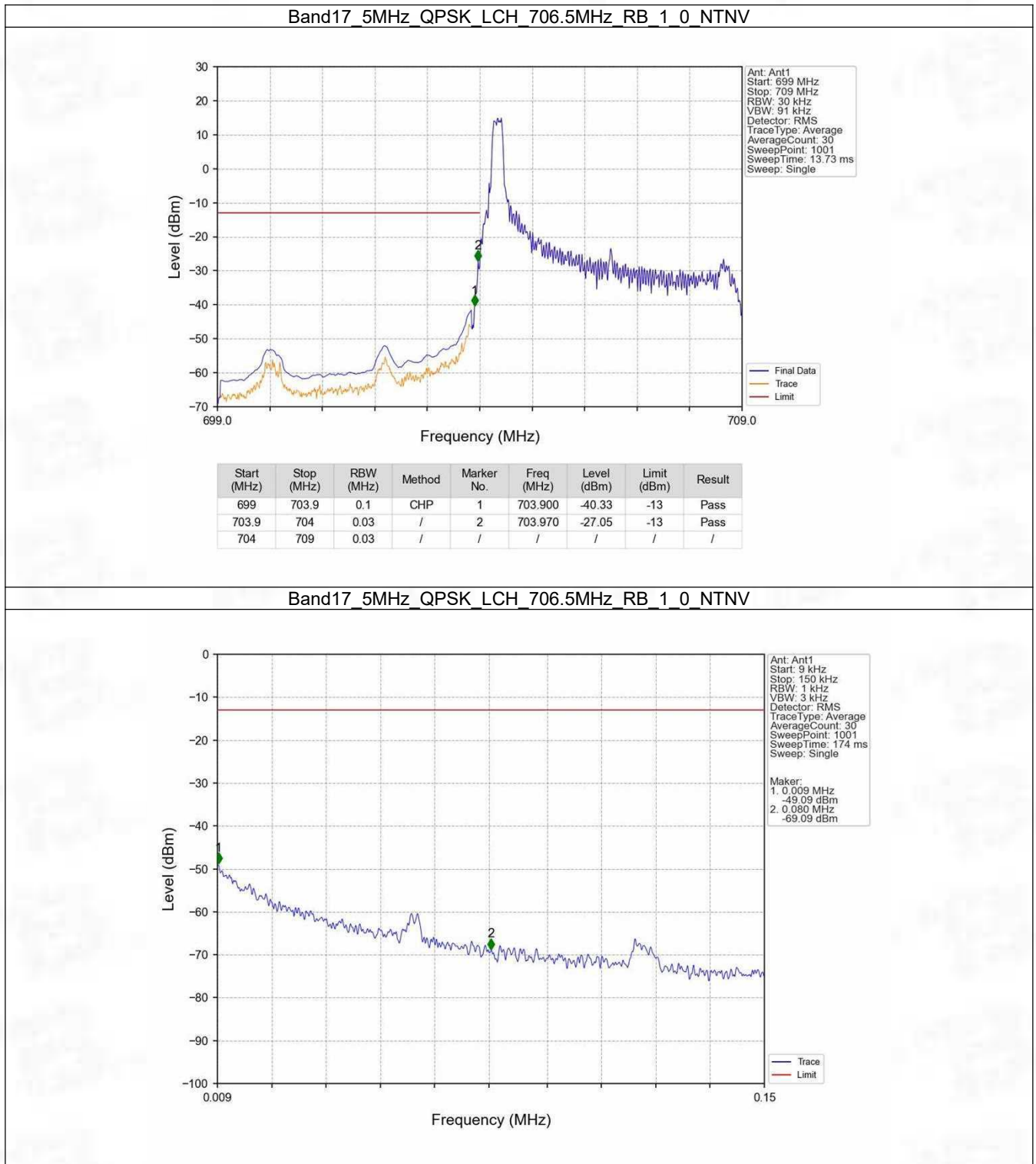
Band: 17 / Bandwidth: 5MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	706.5	1	0	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass
	710	1	0	Refer To Test Graph	Pass
	713.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
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

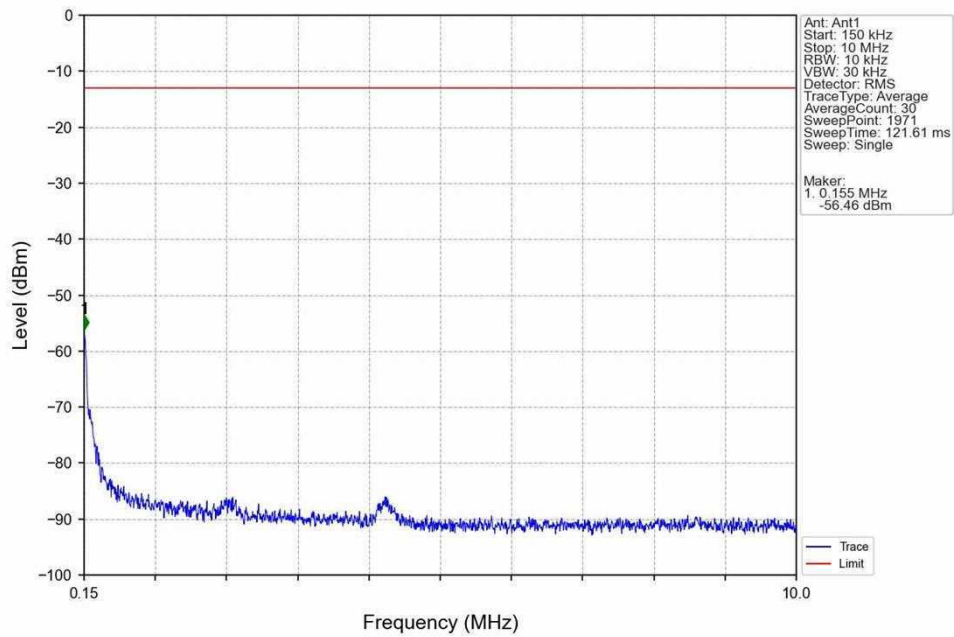
Band: 17 / Bandwidth: 10MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	709	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	710	1	0	Refer To Test Graph	Pass
	711	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
		50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

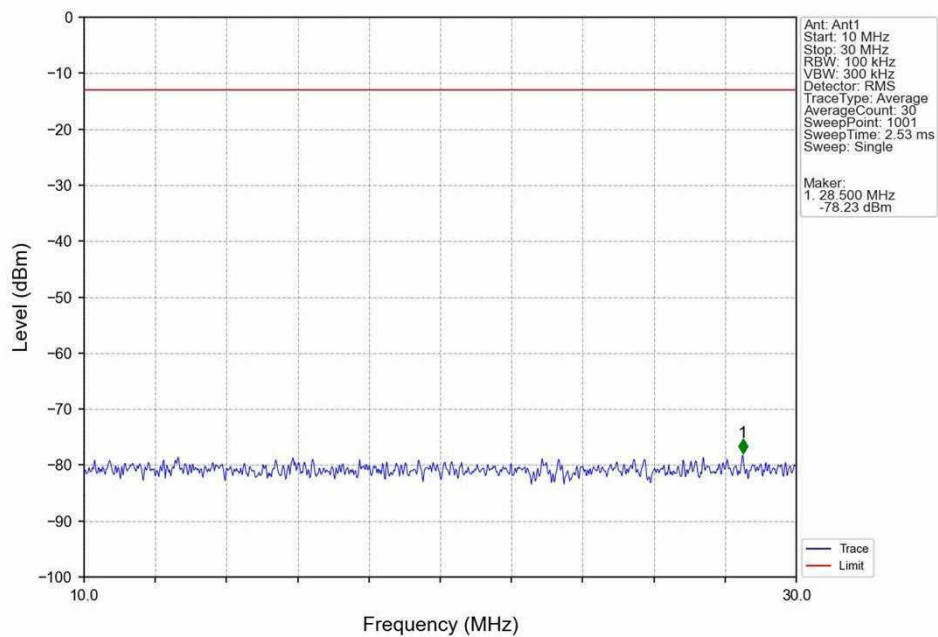
6.2.1 B17_5MHz



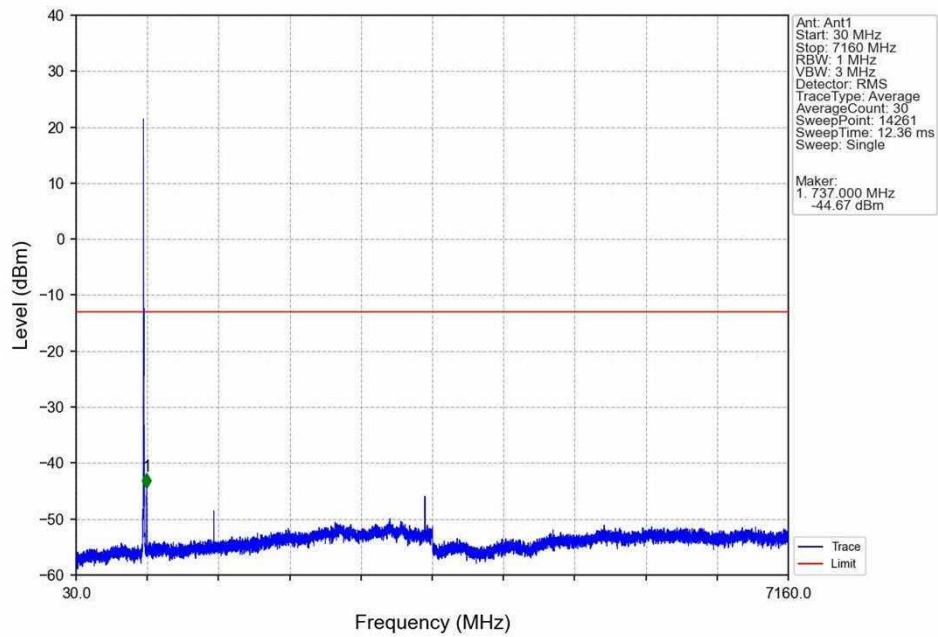
Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV



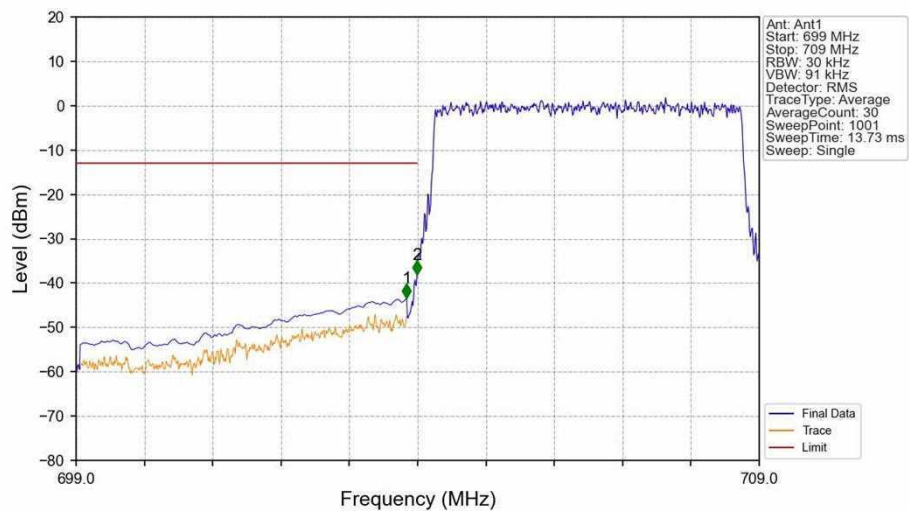
Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV



Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV

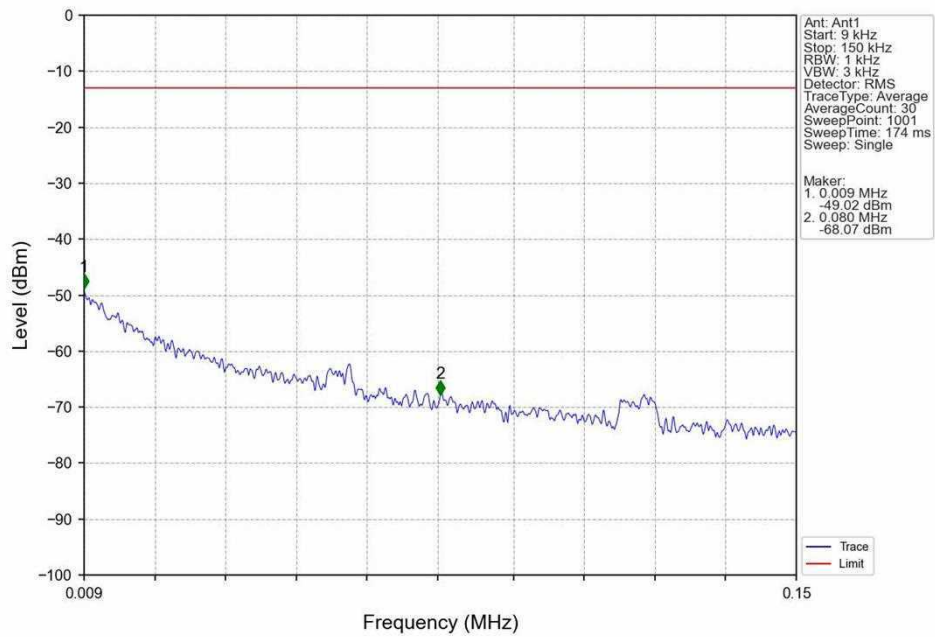


Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV

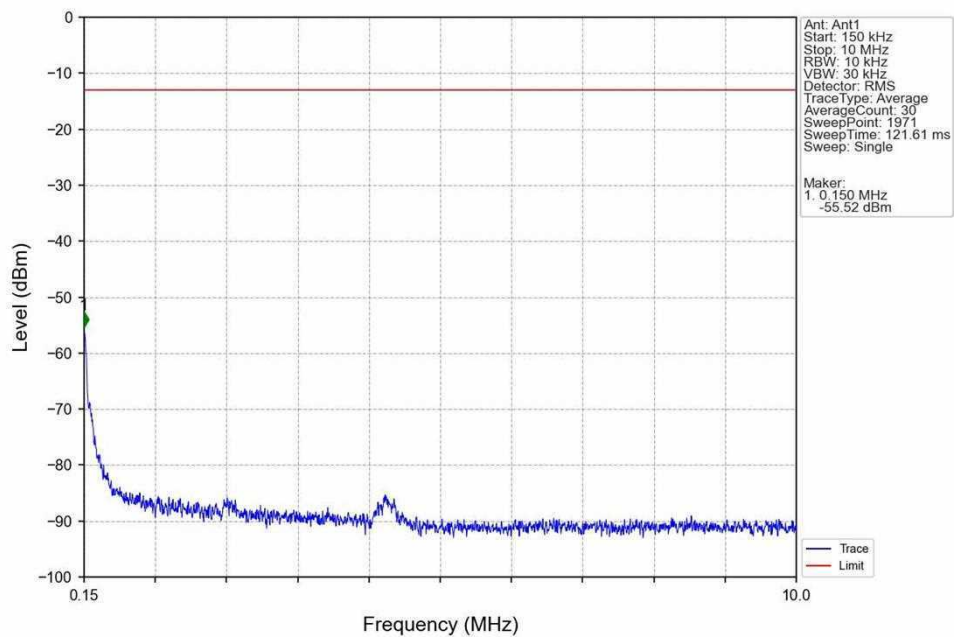


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-43.38	-13	Pass
703.9	704	0.03	/	2	703.990	-38.07	-13	Pass
704	709	0.03	/	/	/	/	/	/

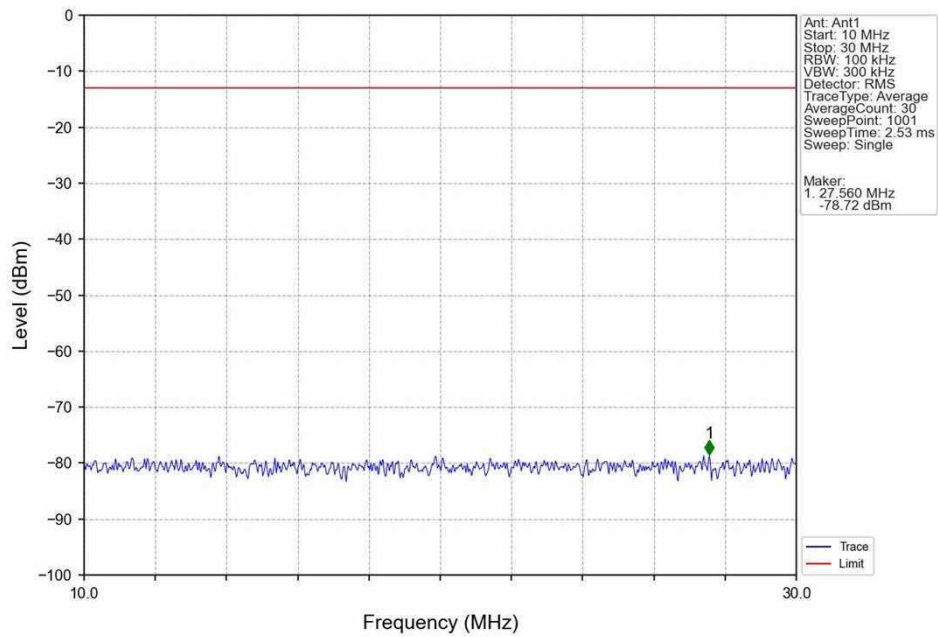
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



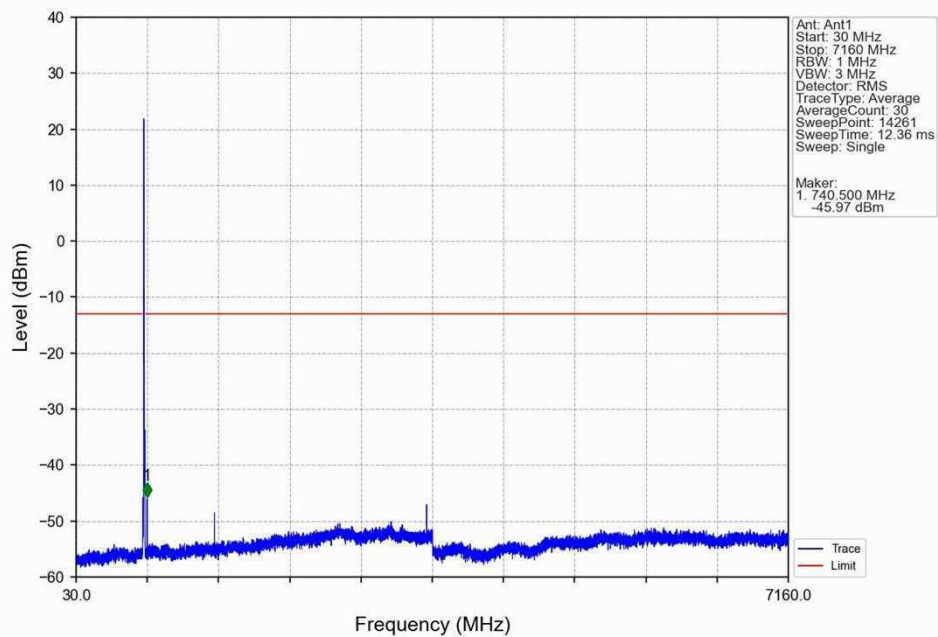
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



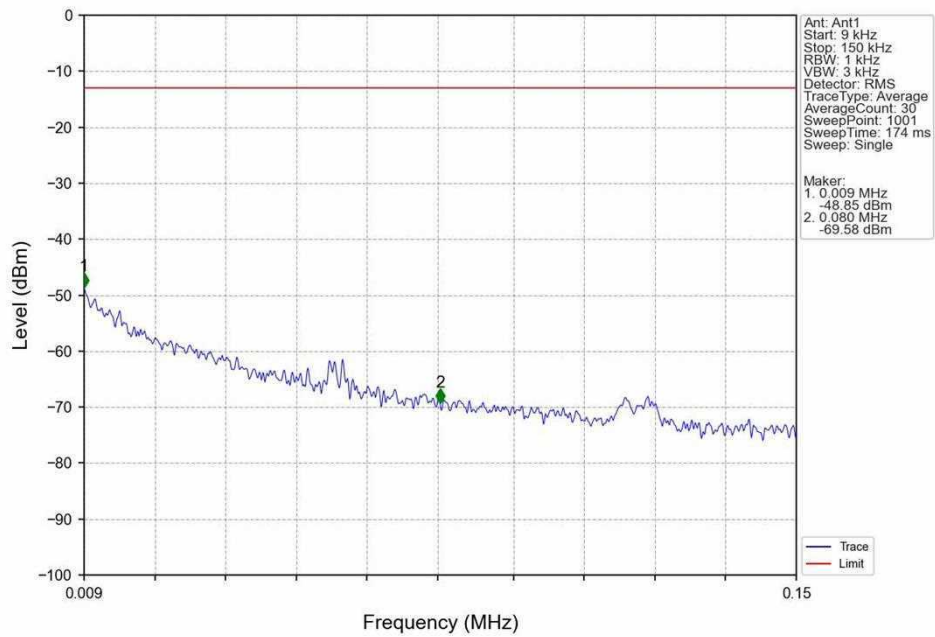
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



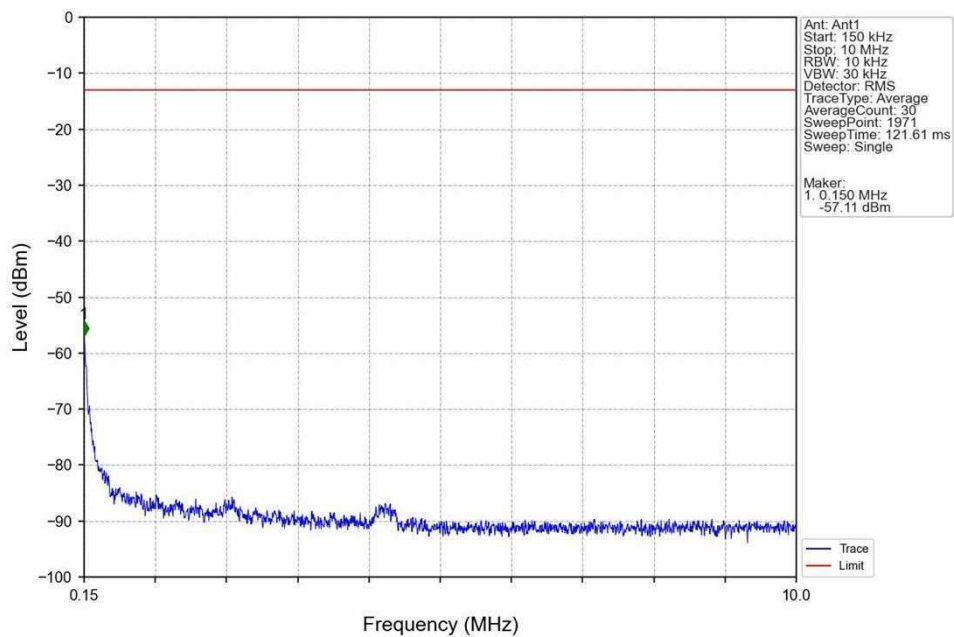
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



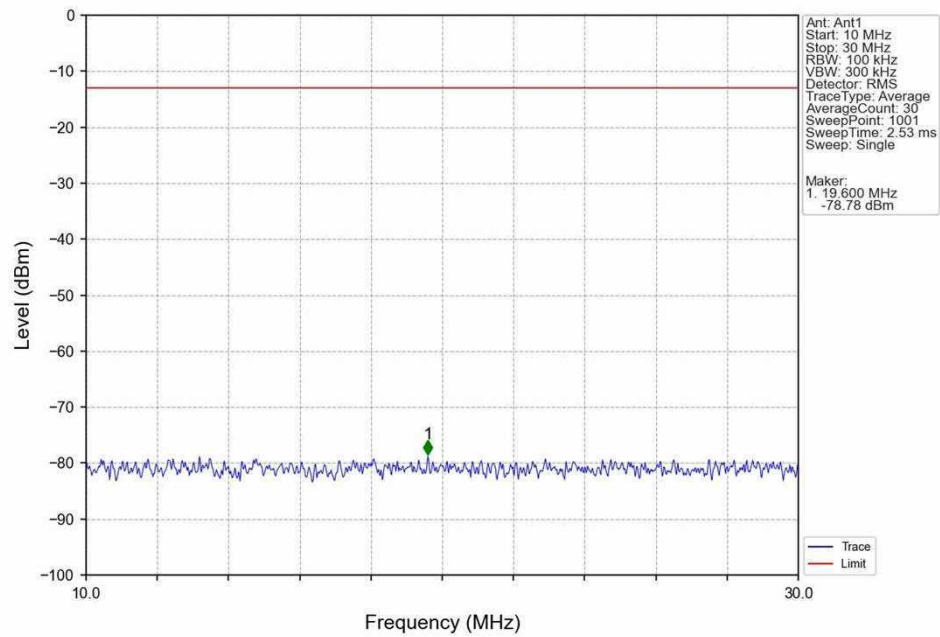
Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



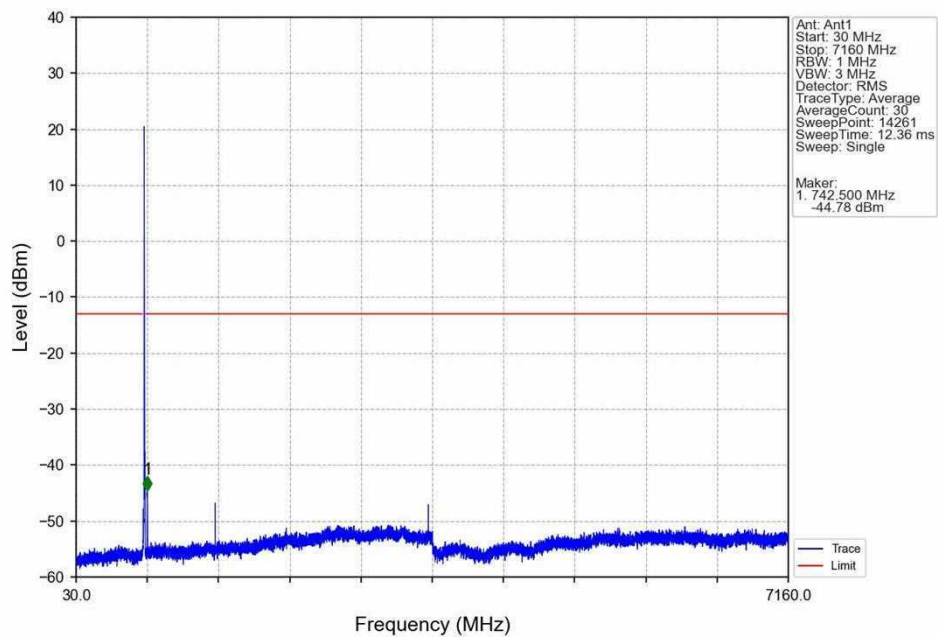
Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



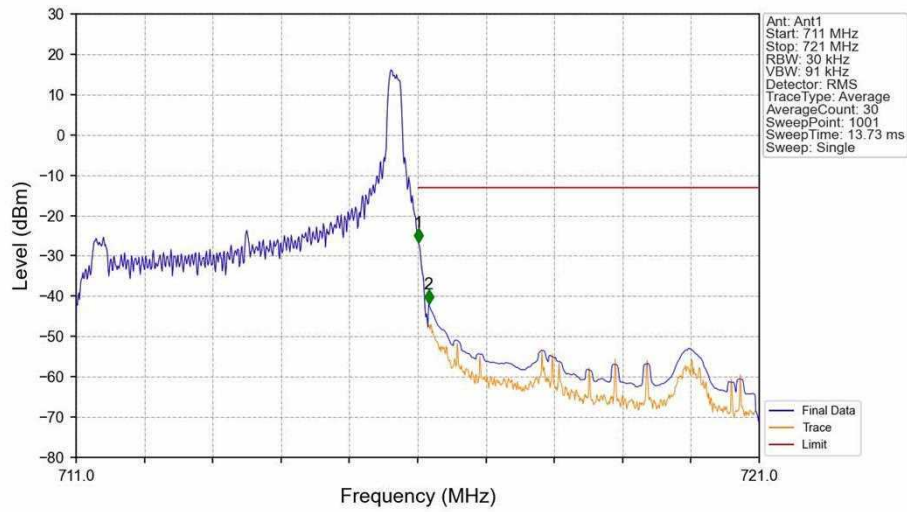
Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

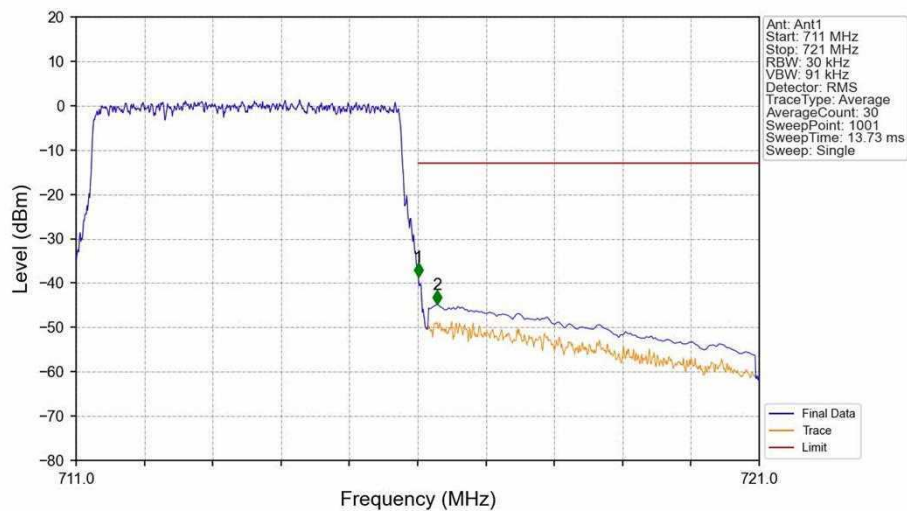


Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



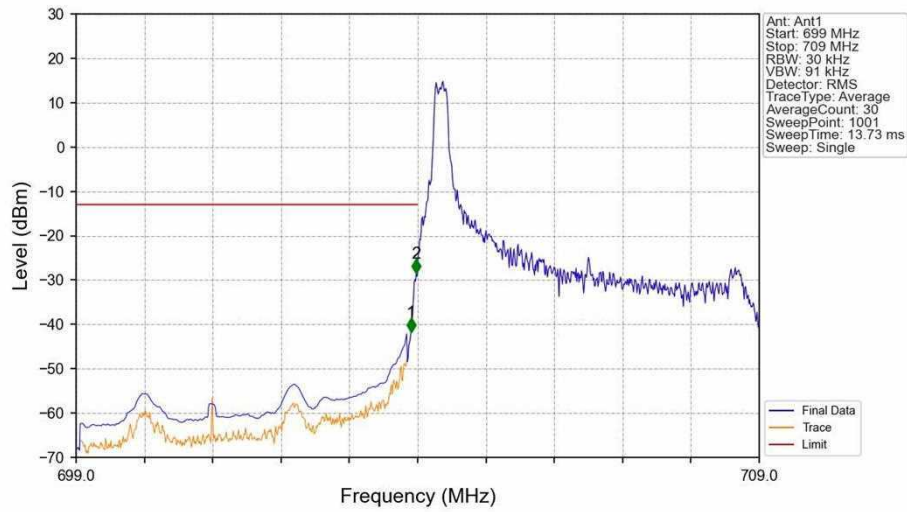
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-26.68	-13	Pass
716.1	721	0.1	CHP	2	716.160	-41.85	-13	Pass

Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV

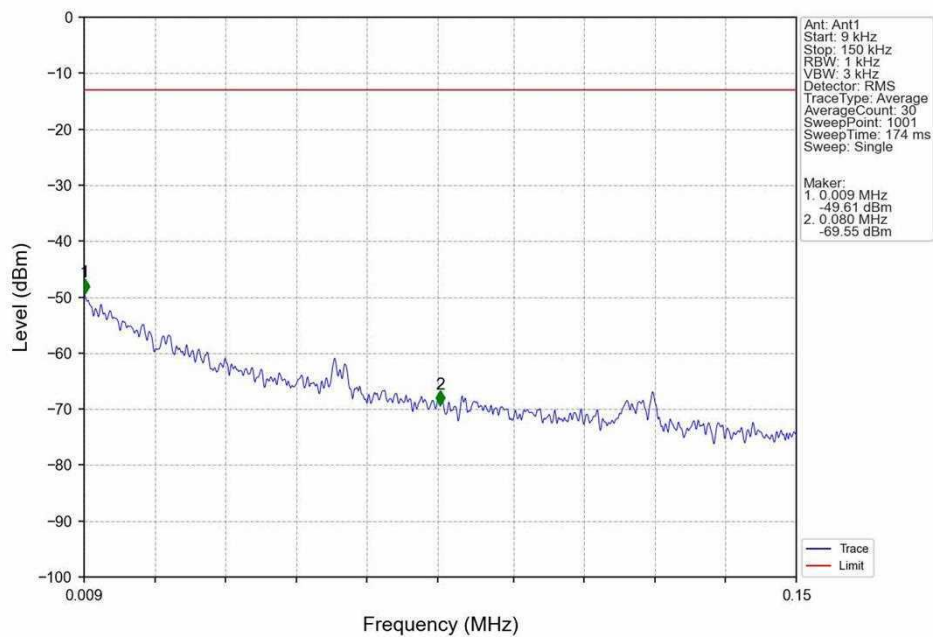


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-38.62	-13	Pass
716.1	721	0.1	CHP	2	716.280	-44.76	-13	Pass

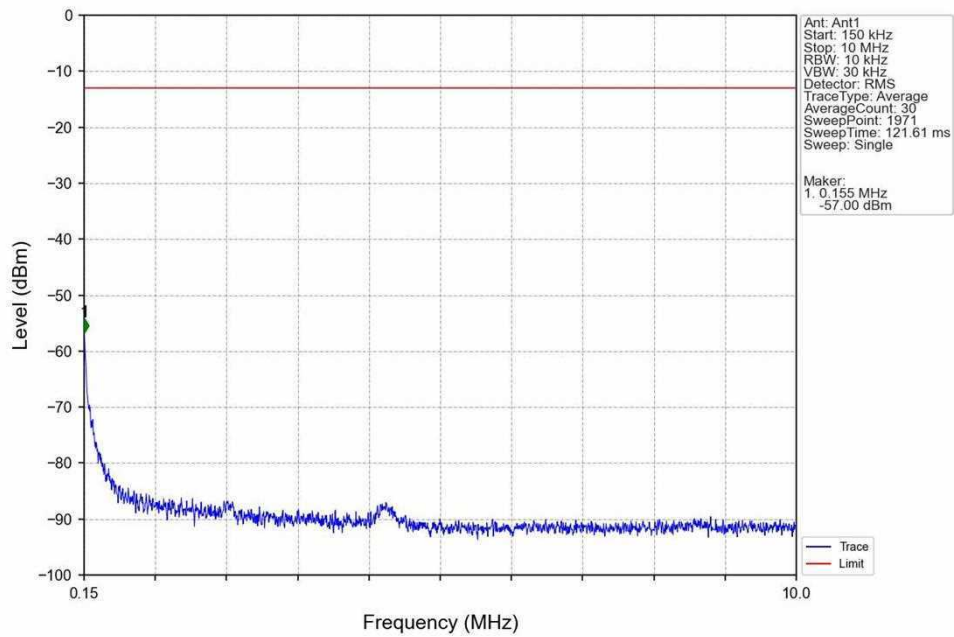
Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



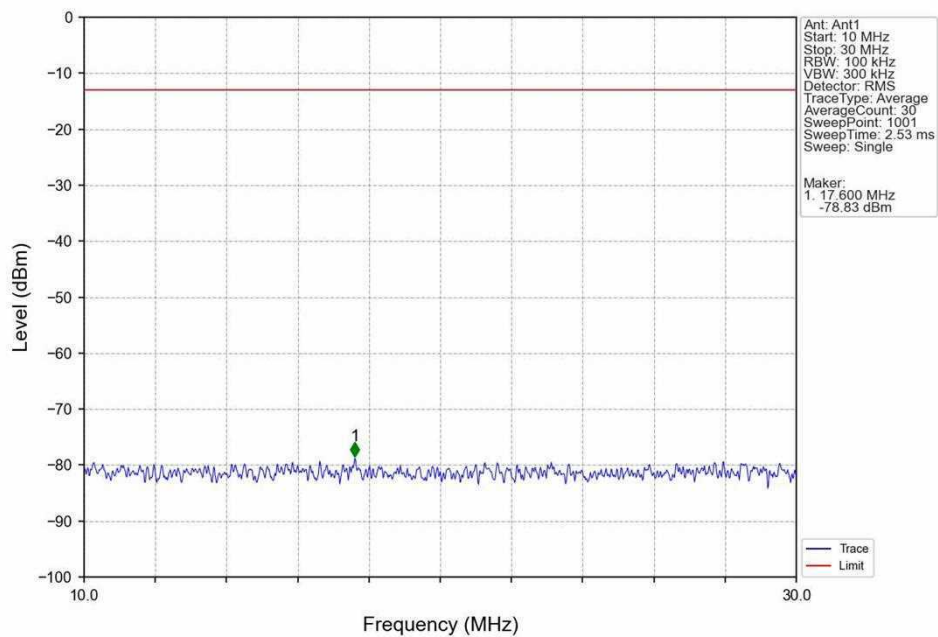
Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



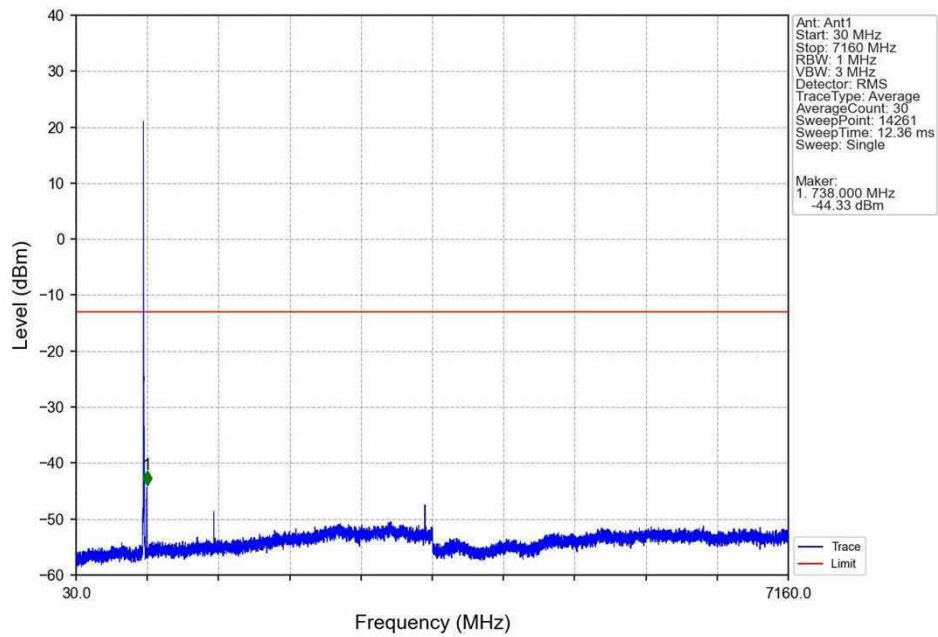
Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



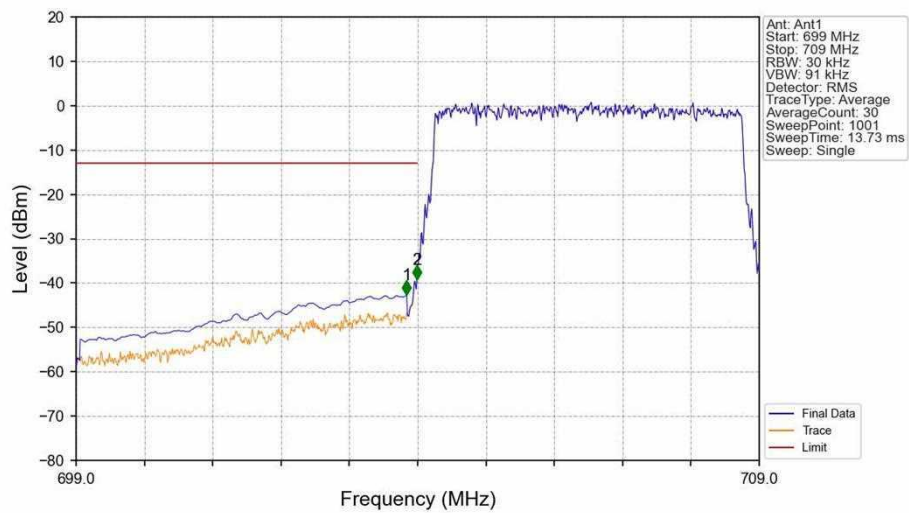
Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV

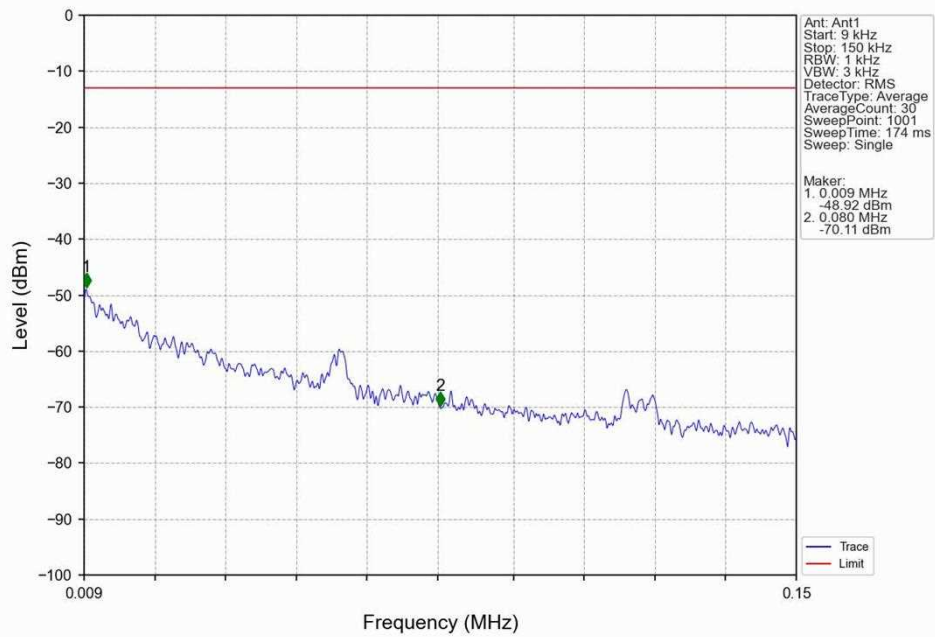


Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV

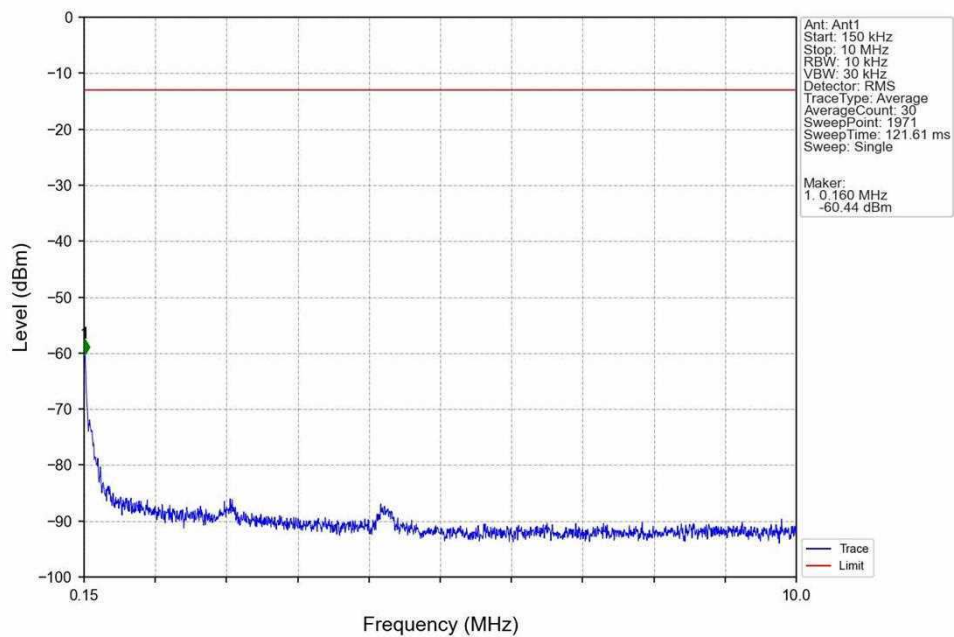


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-42.53	-13	Pass
703.9	704	0.03	/	2	703.990	-39.17	-13	Pass
704	709	0.03	/	/	/	/	/	/

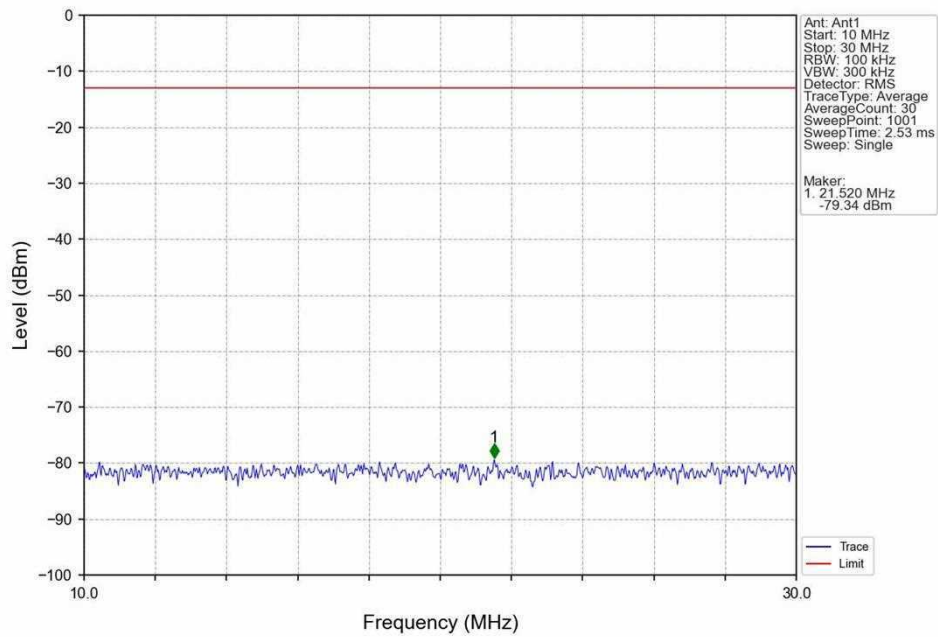
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



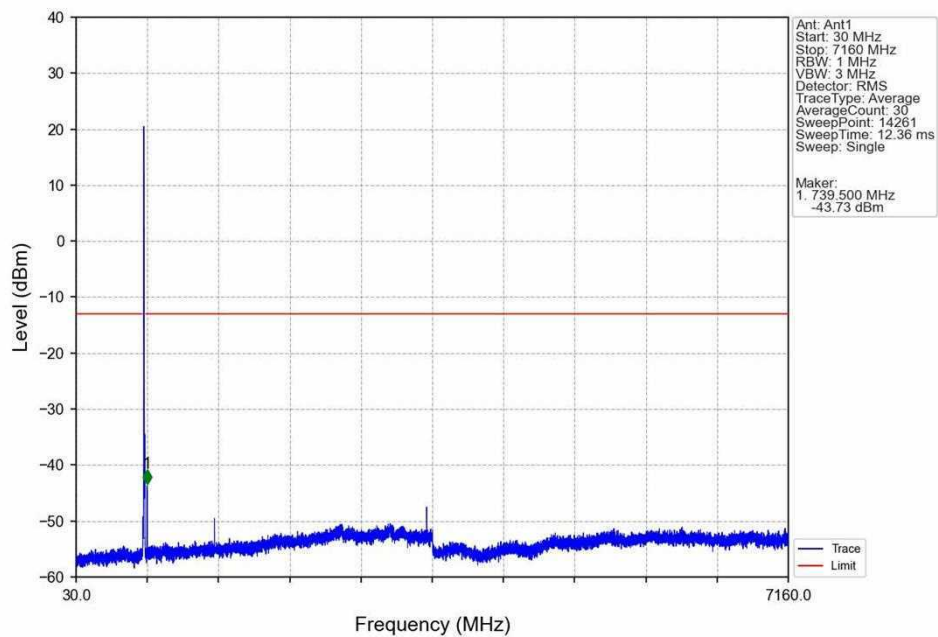
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



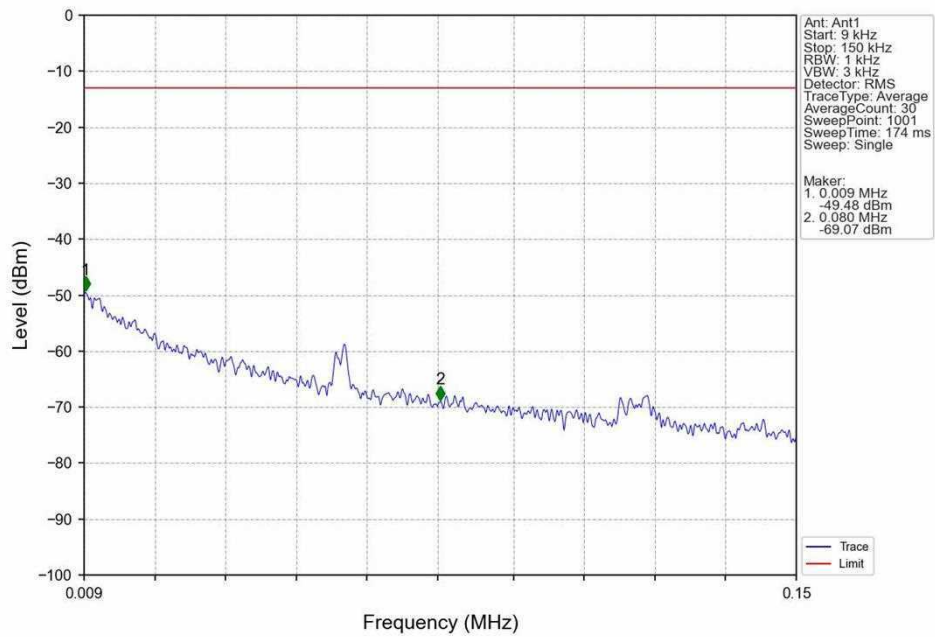
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



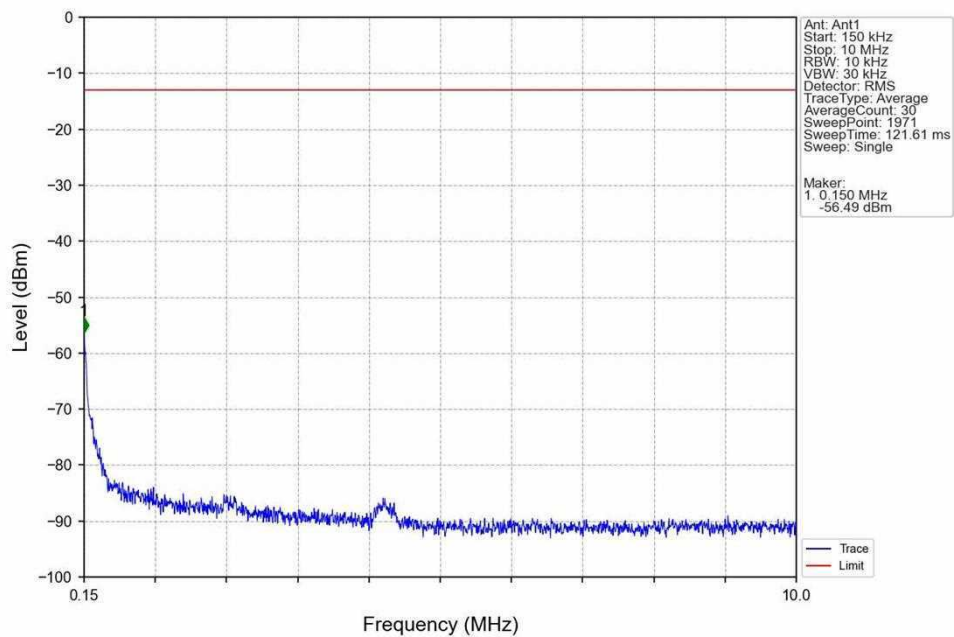
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



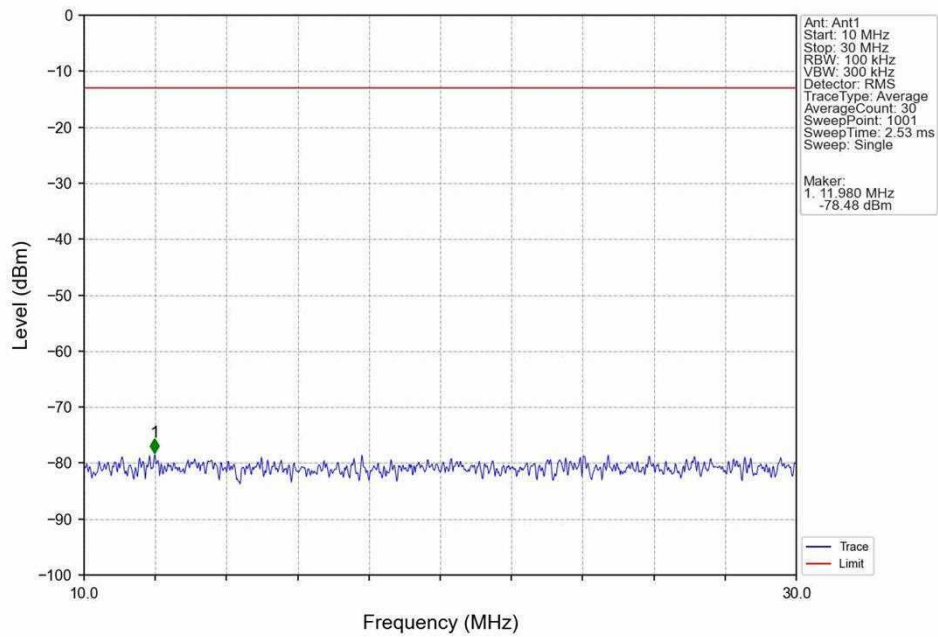
Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



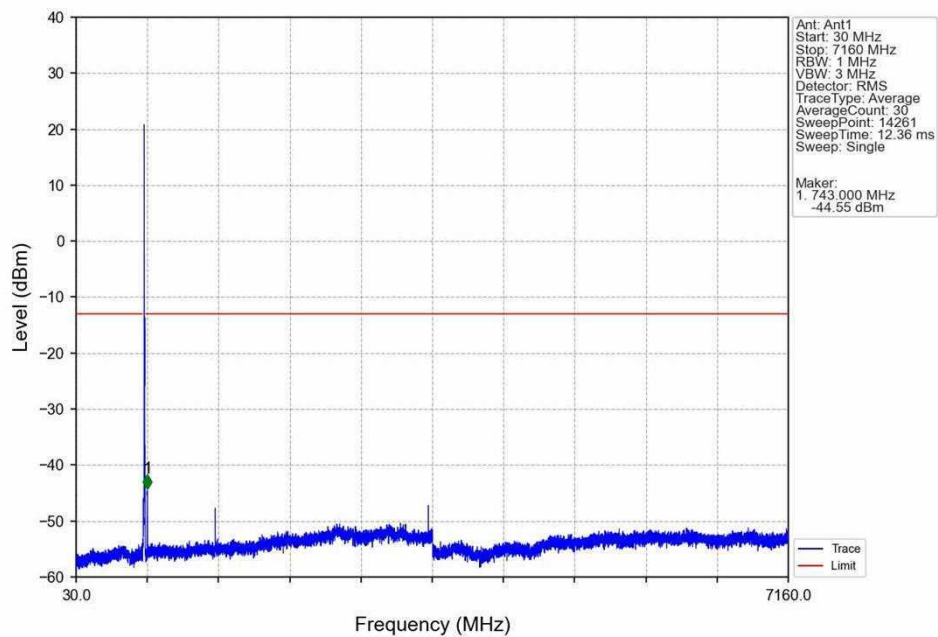
Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



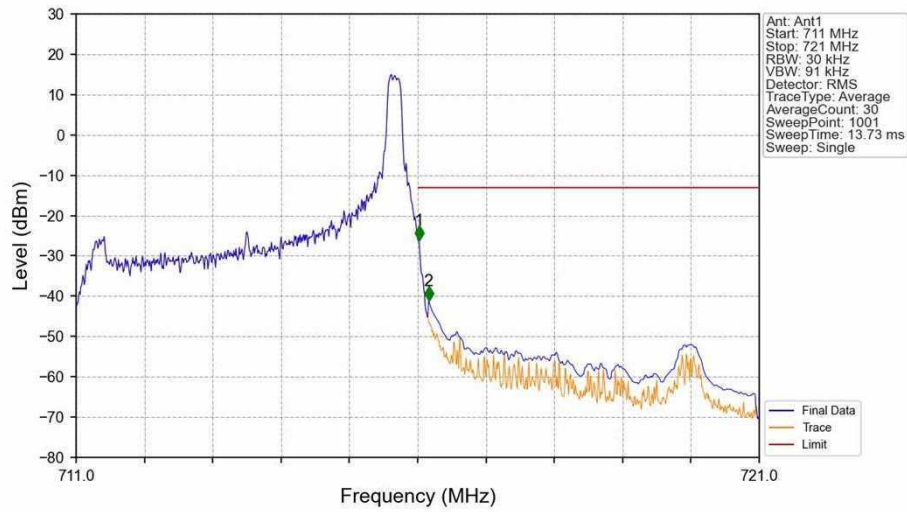
Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV

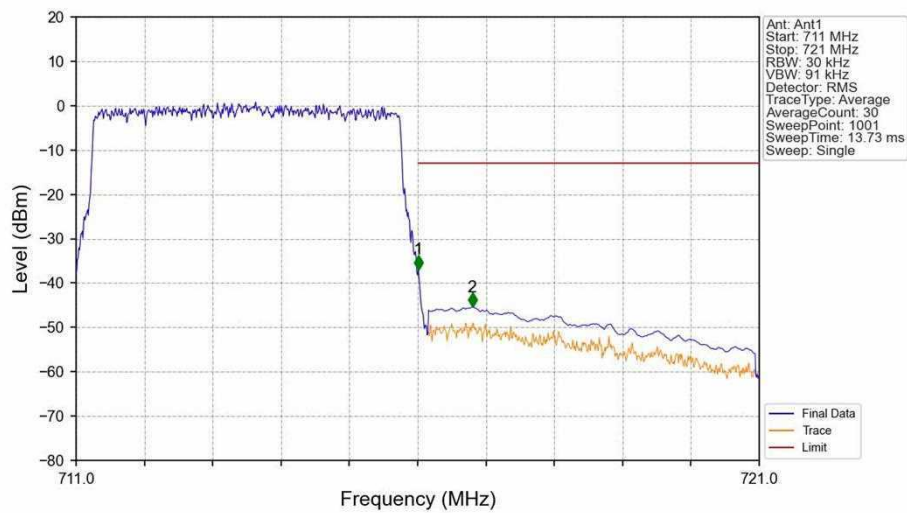


Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_24_NTNV



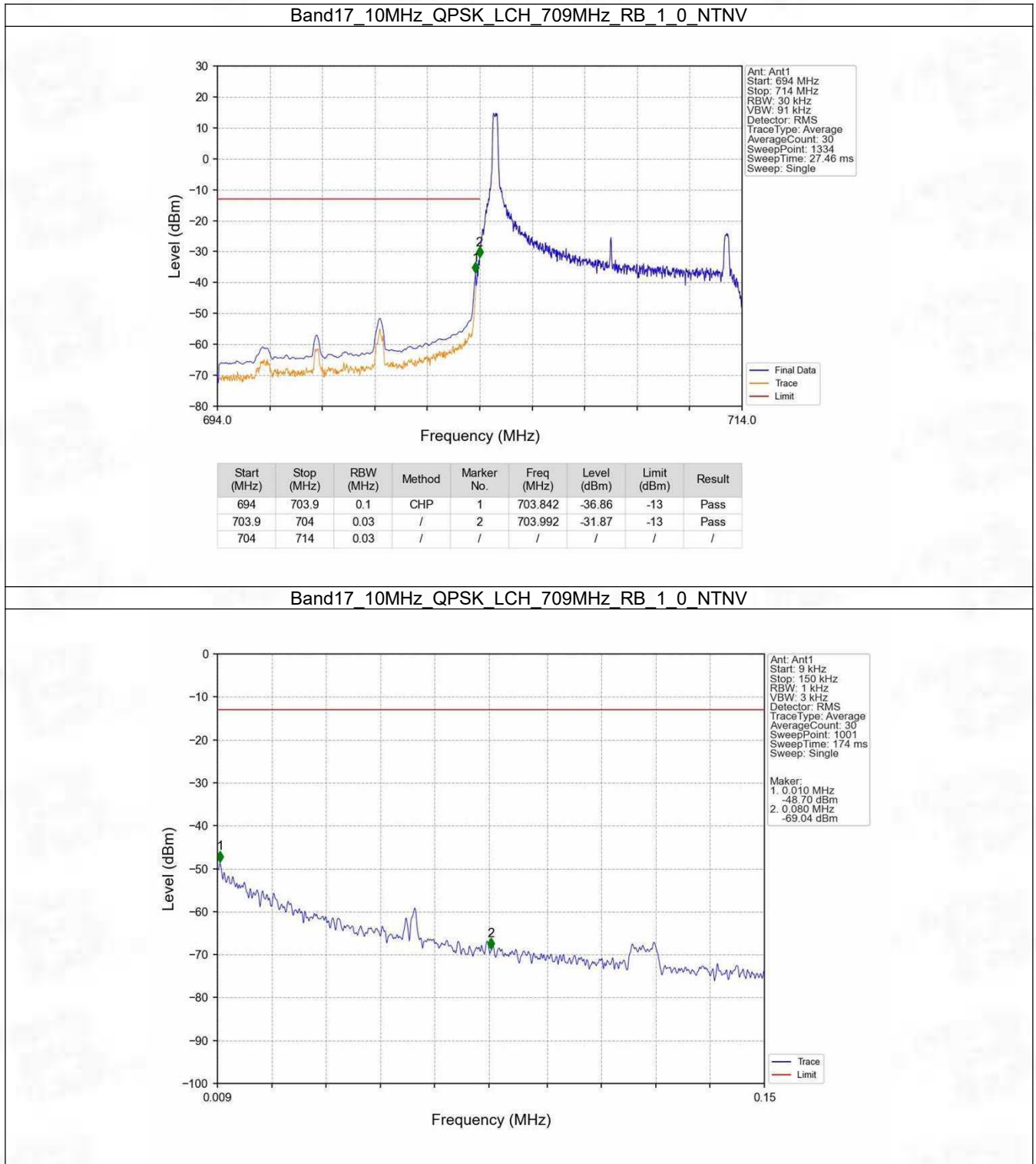
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.020	-26.05	-13	Pass
716.1	721	0.1	CHP	2	716.160	-41.01	-13	Pass

Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

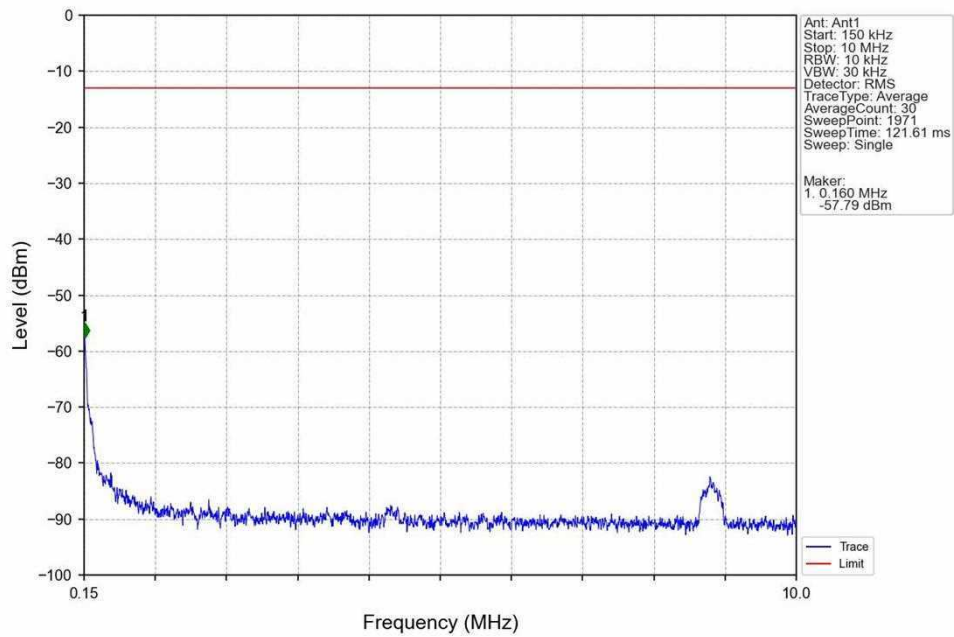


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-36.87	-13	Pass
716.1	721	0.1	CHP	2	716.800	-45.39	-13	Pass

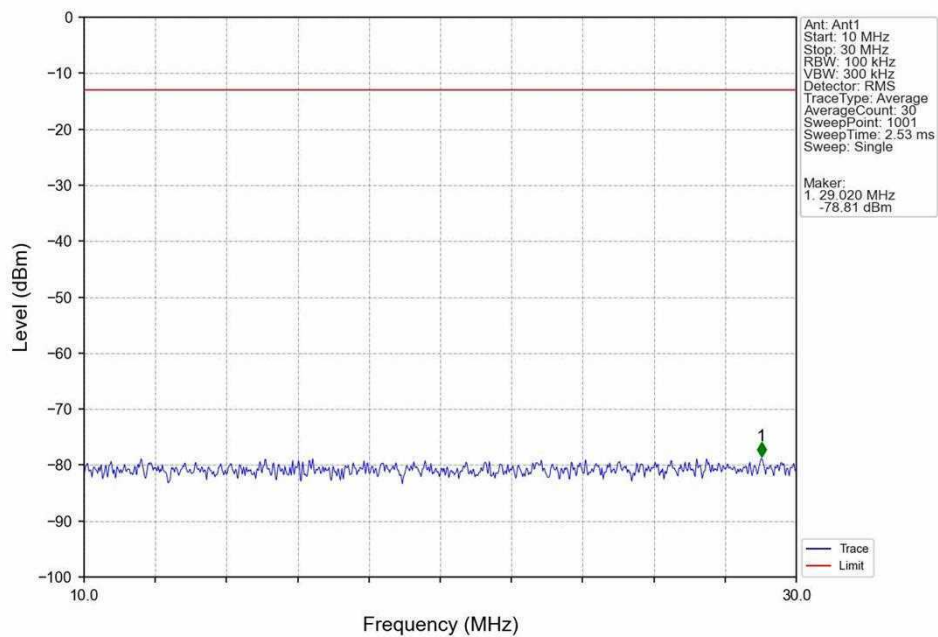
6.2.2 B17_10MHz



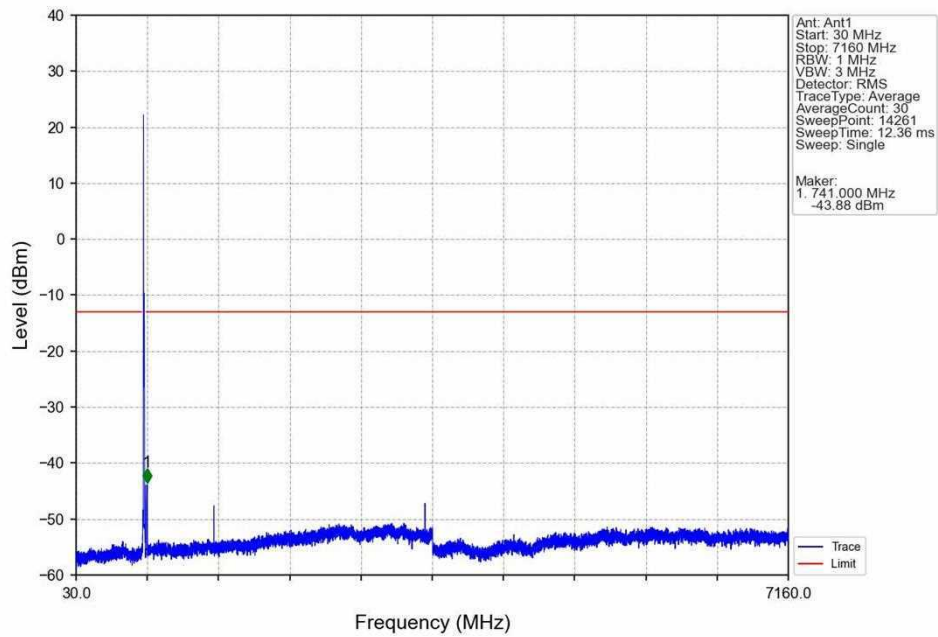
Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV



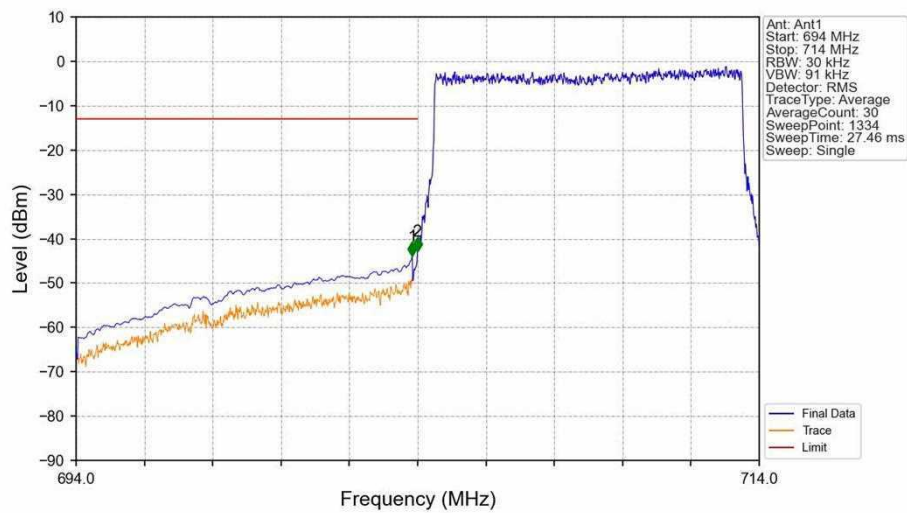
Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV



Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV

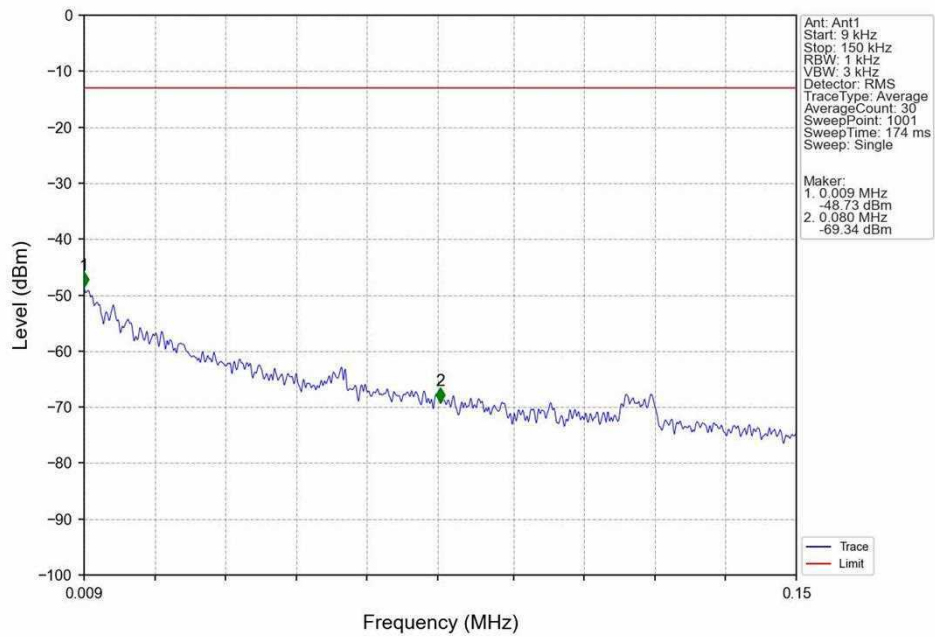


Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV

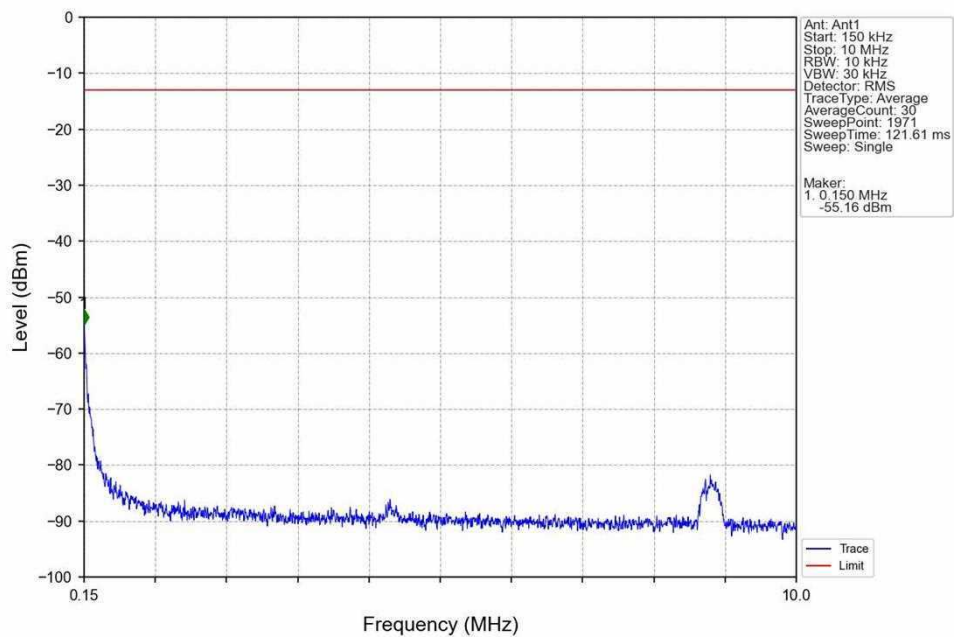


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-43.90	-13	Pass
703.9	704	0.03	/	2	703.992	-42.78	-13	Pass
704	714	0.03	/	/	/	/	/	/

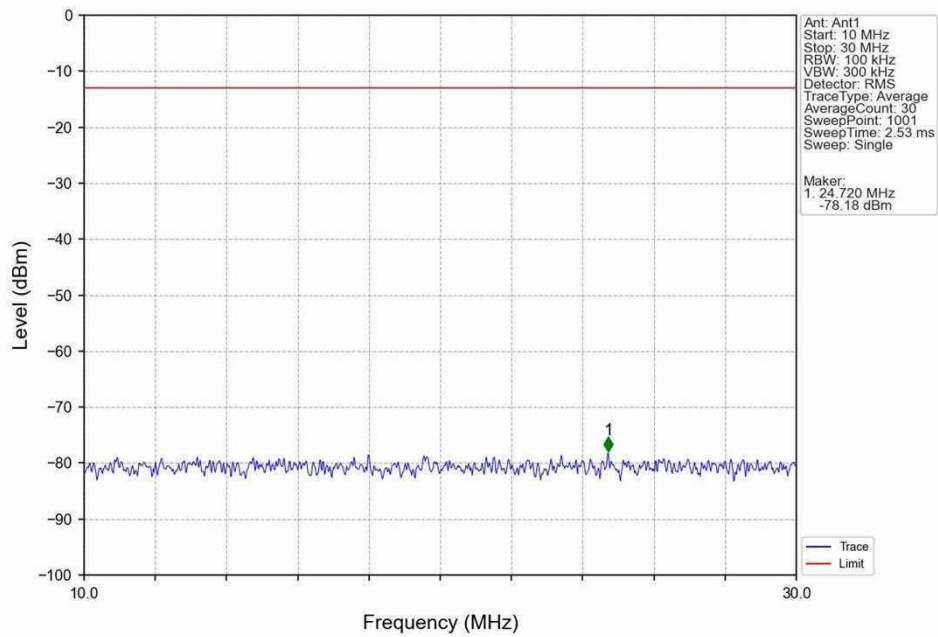
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



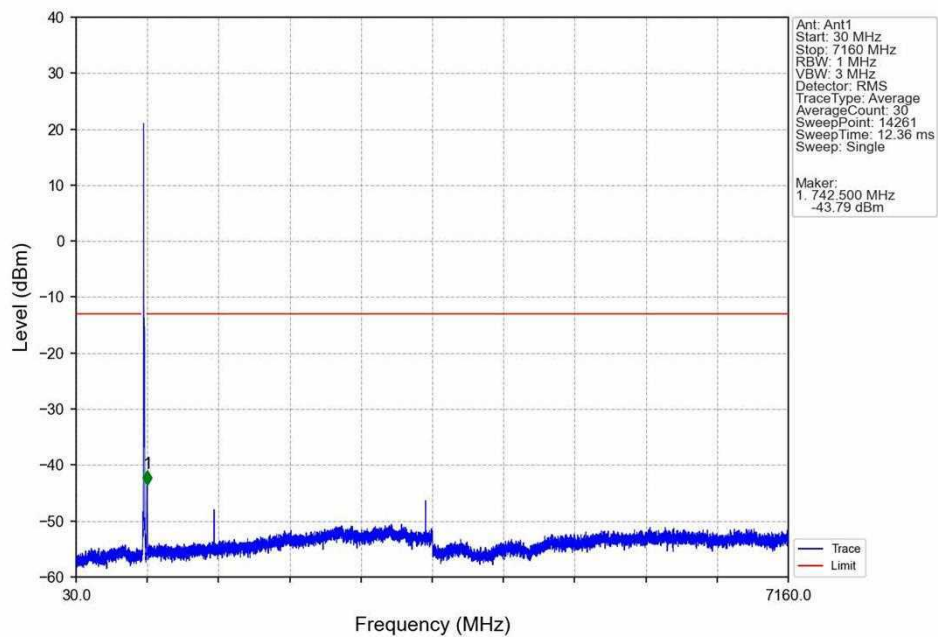
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



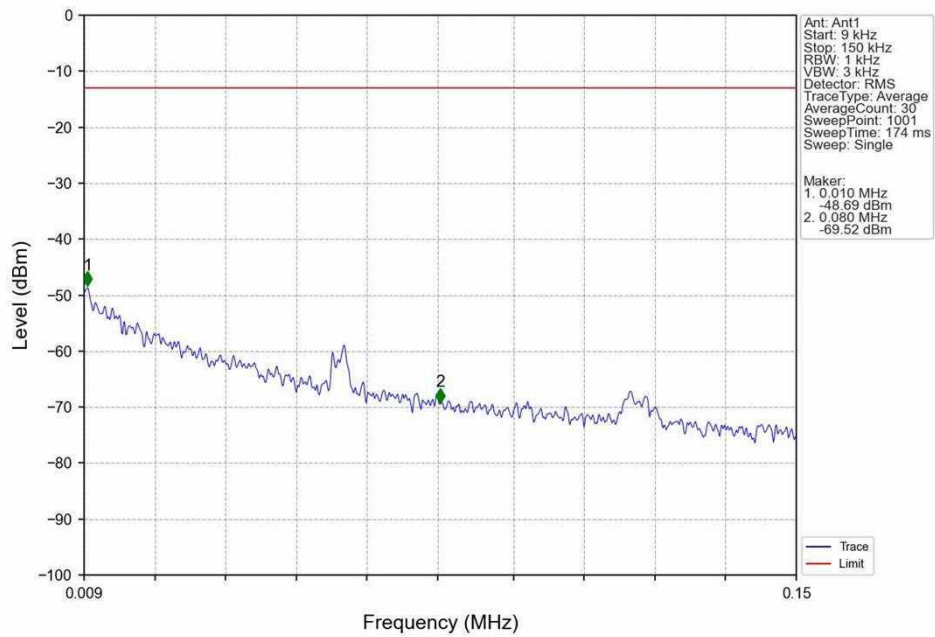
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



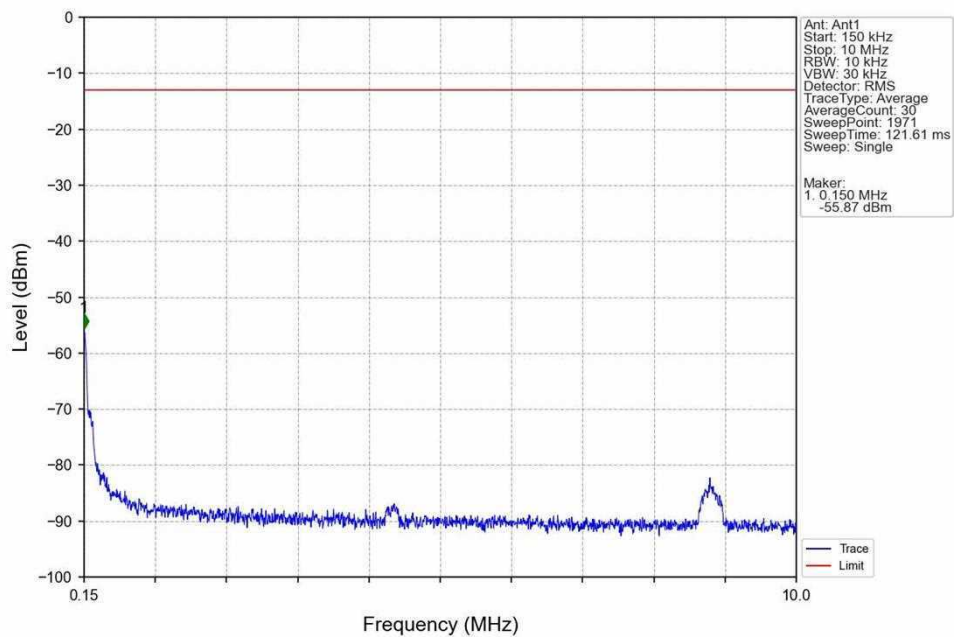
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



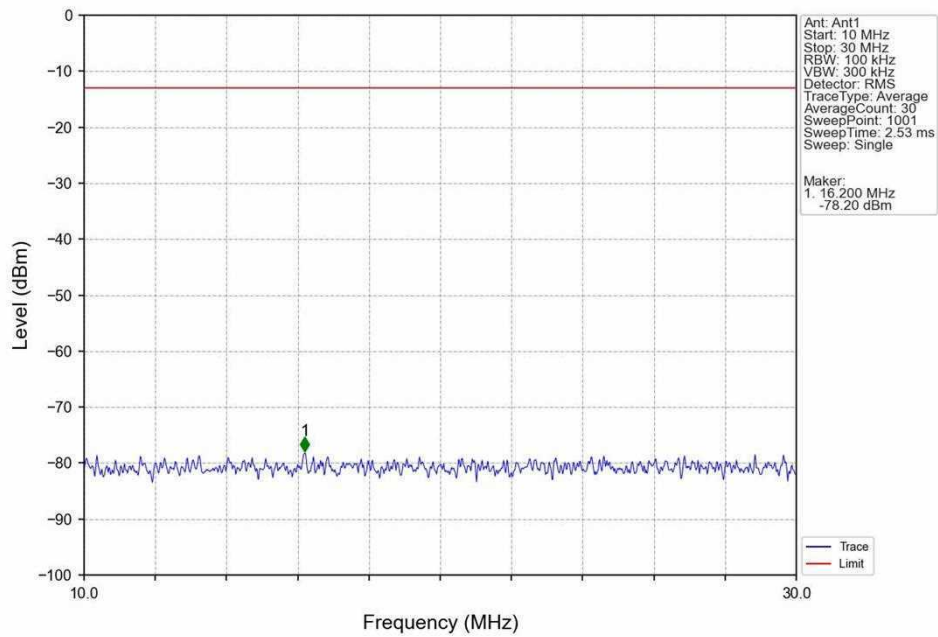
Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



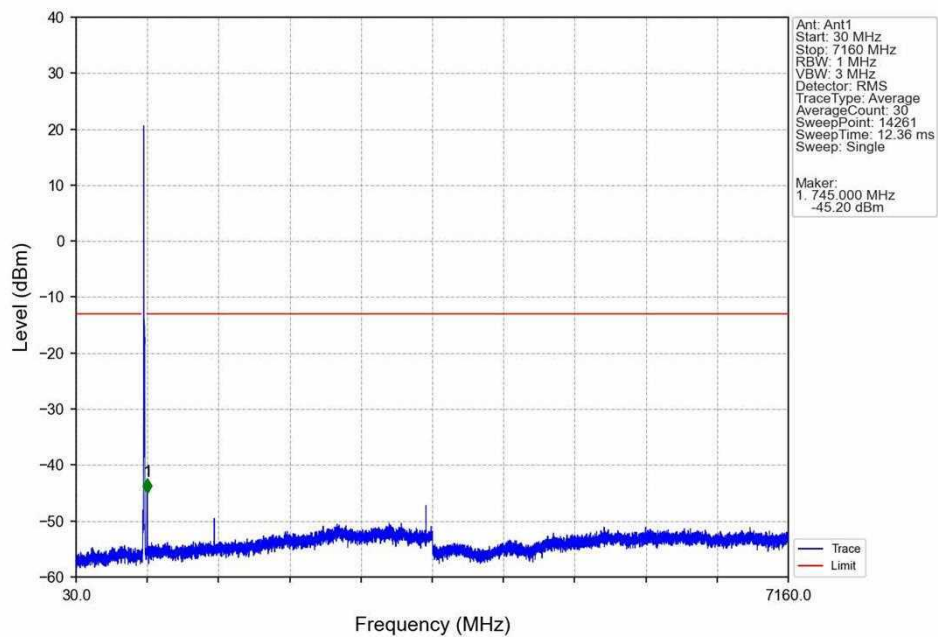
Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



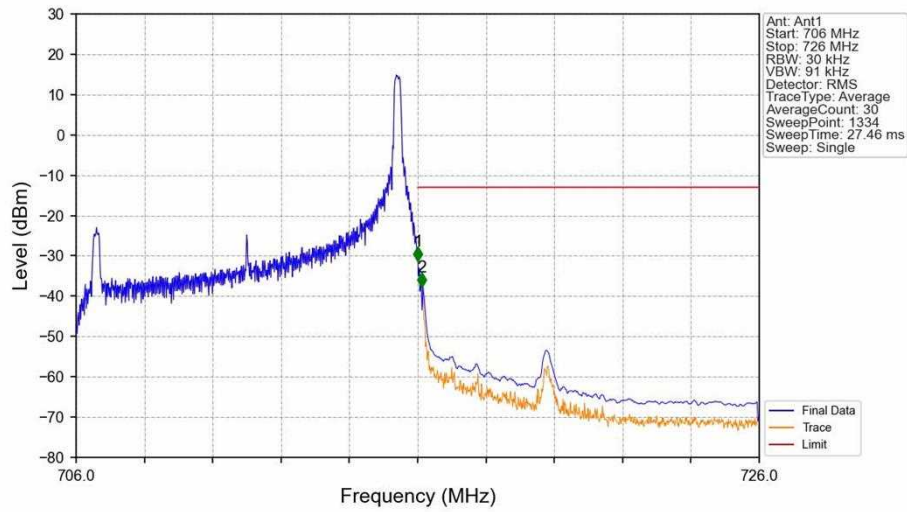
Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

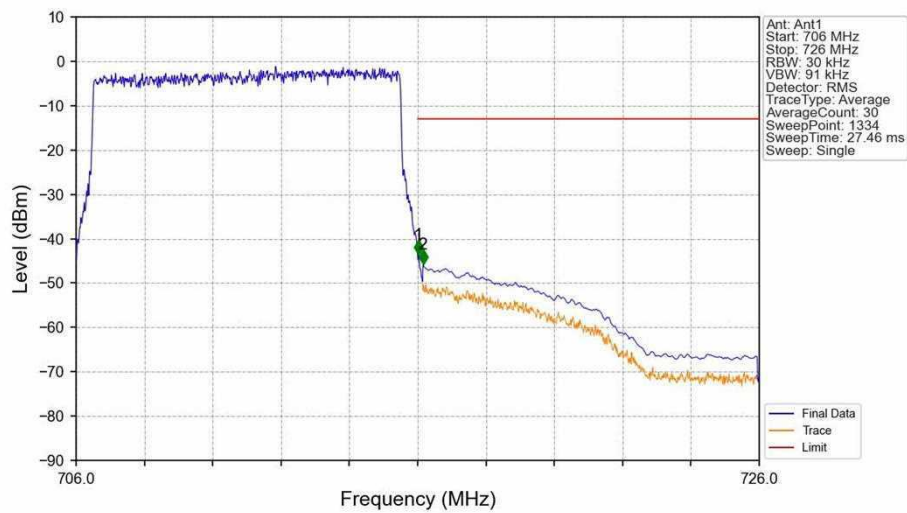


Band17_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



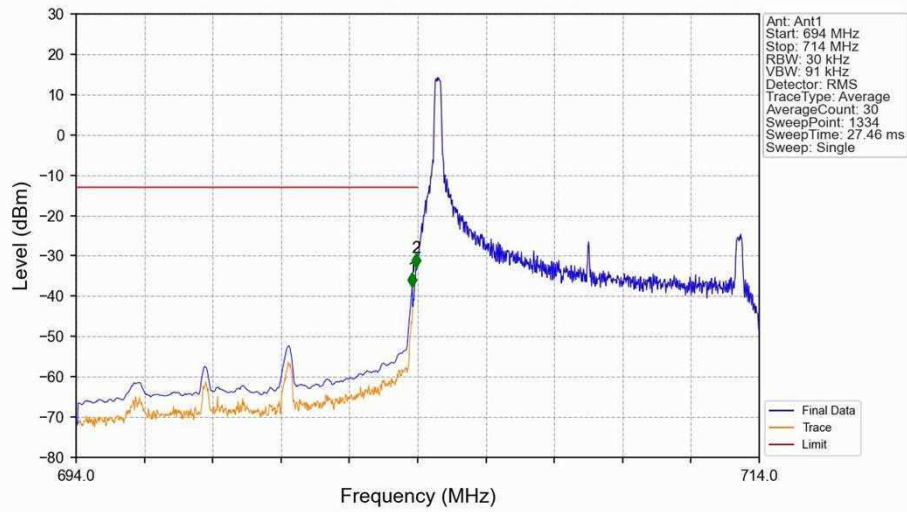
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-31.23	-13	Pass
716.1	726	0.1	CHP	2	716.113	-37.59	-13	Pass

Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV

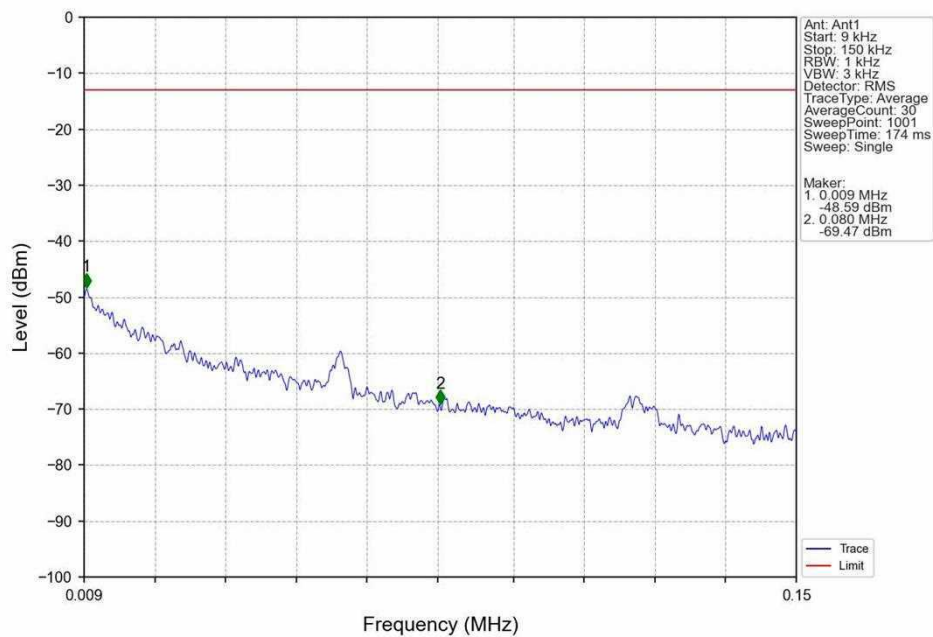


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.023	-43.48	-13	Pass
716.1	726	0.1	CHP	2	716.158	-45.73	-13	Pass

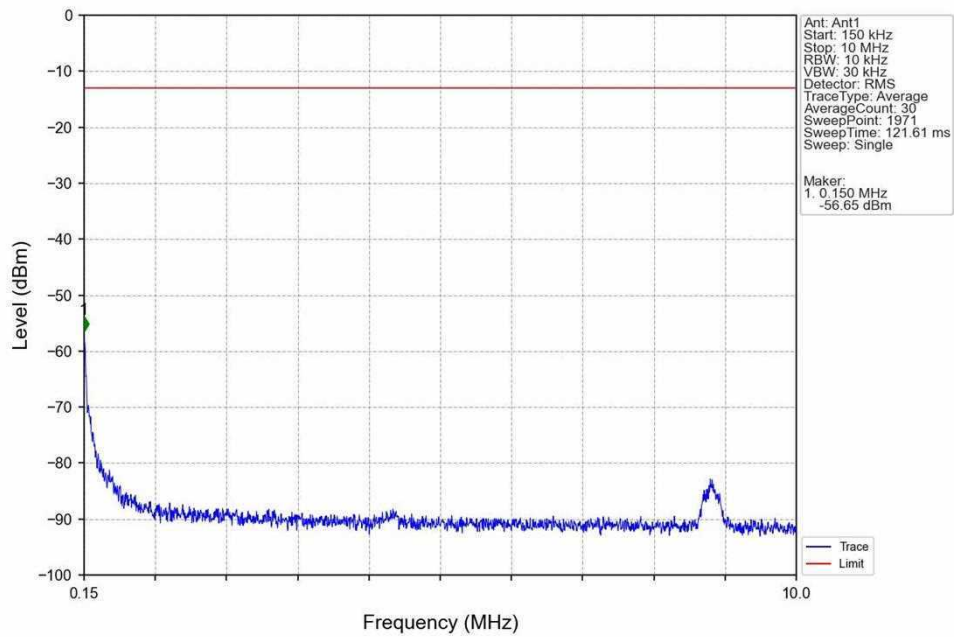
Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV



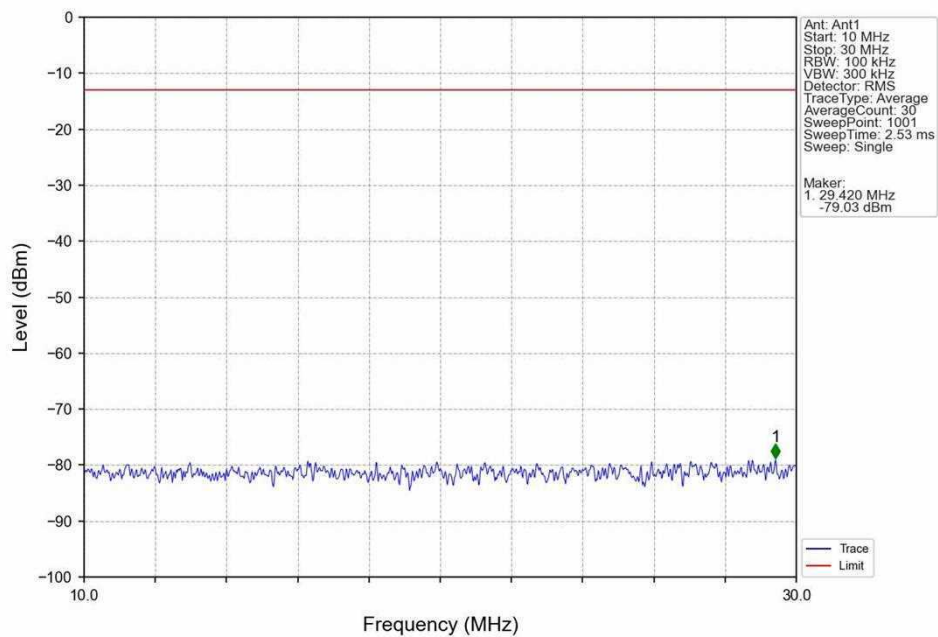
Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV



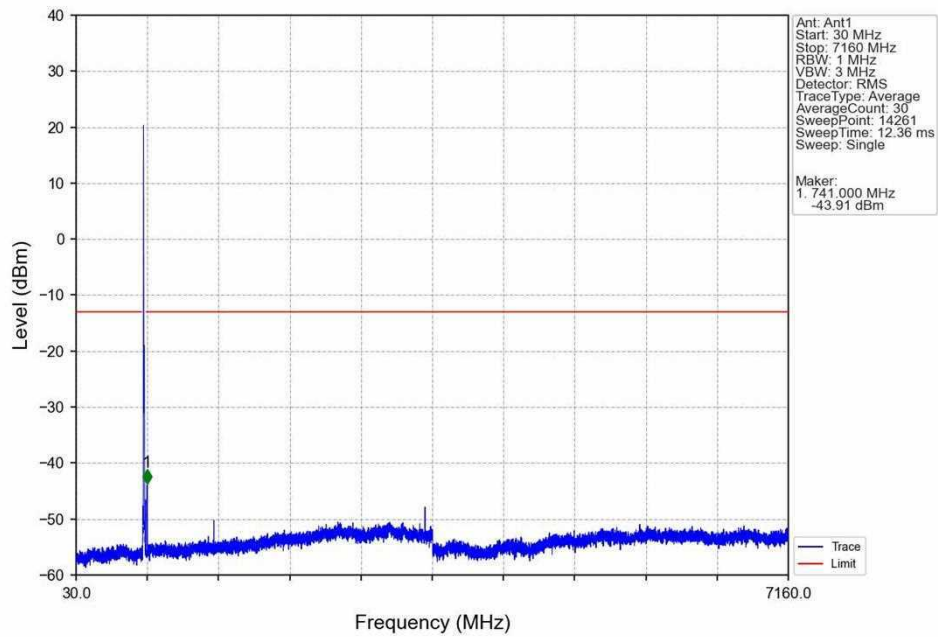
Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV



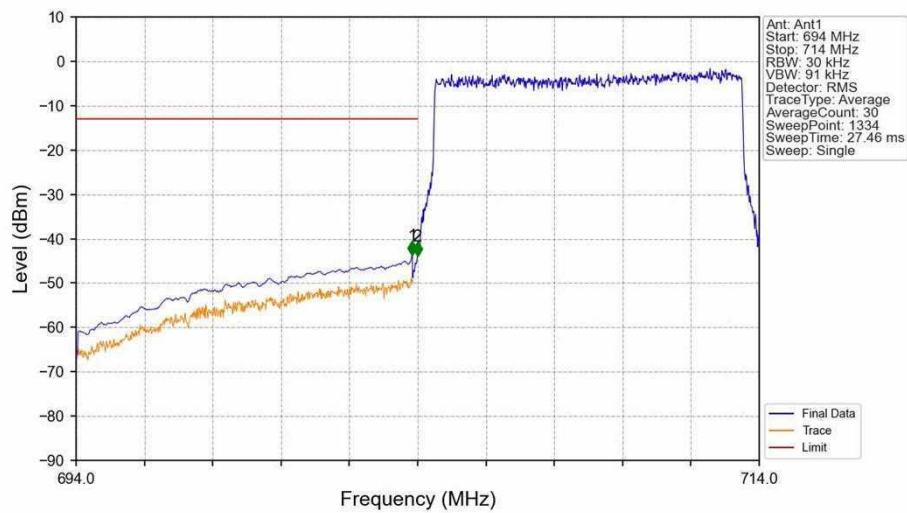
Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV



Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV

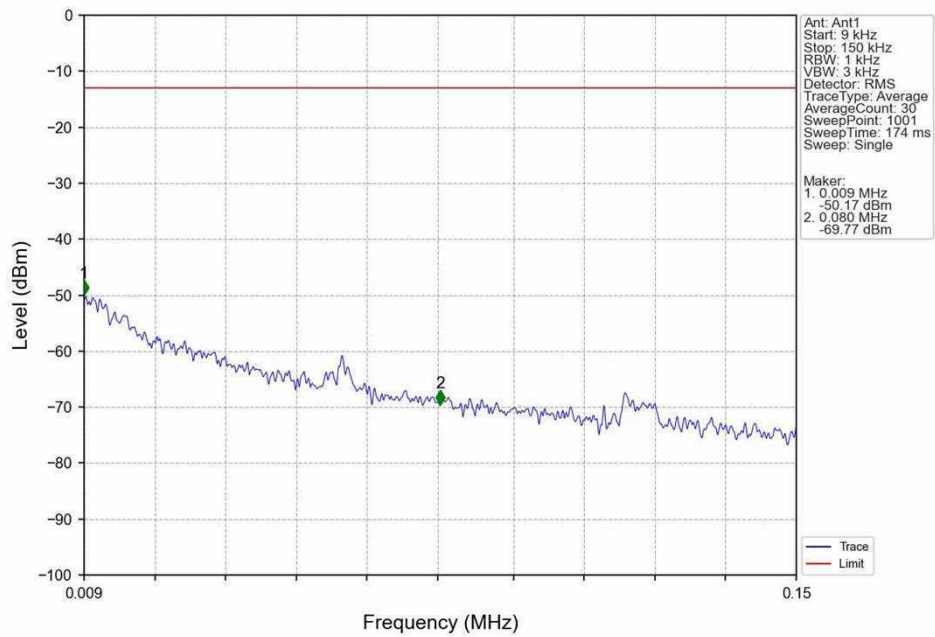


Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV

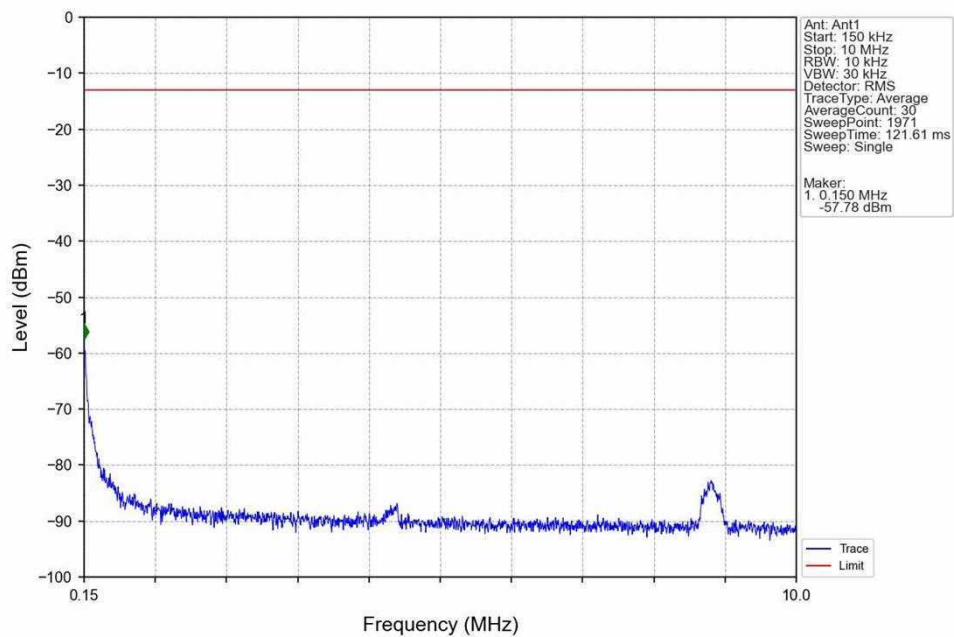


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-43.68	-13	Pass
703.9	704	0.03	/	2	703.992	-43.79	-13	Pass
704	714	0.03	/	/	/	/	/	/

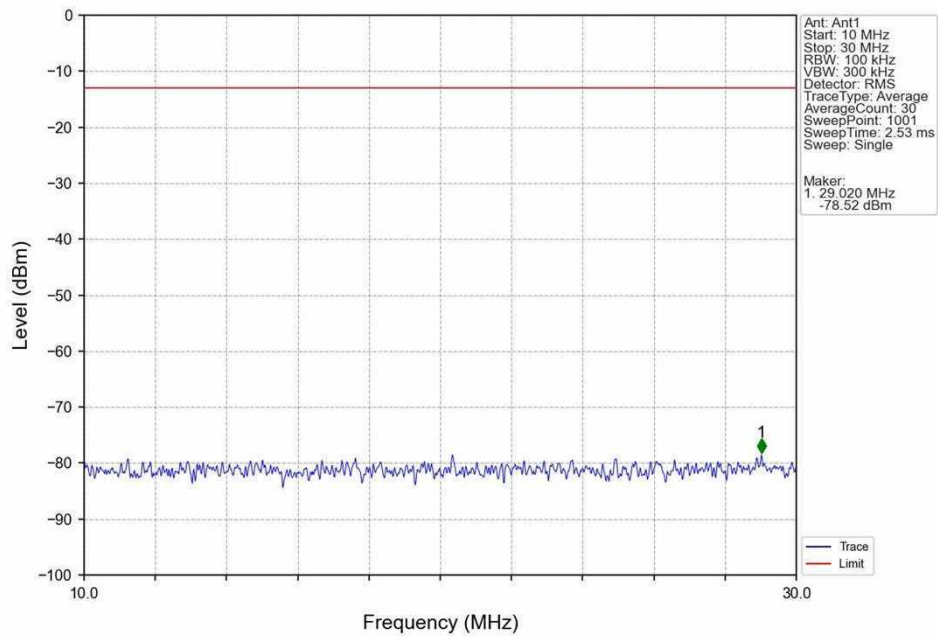
Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



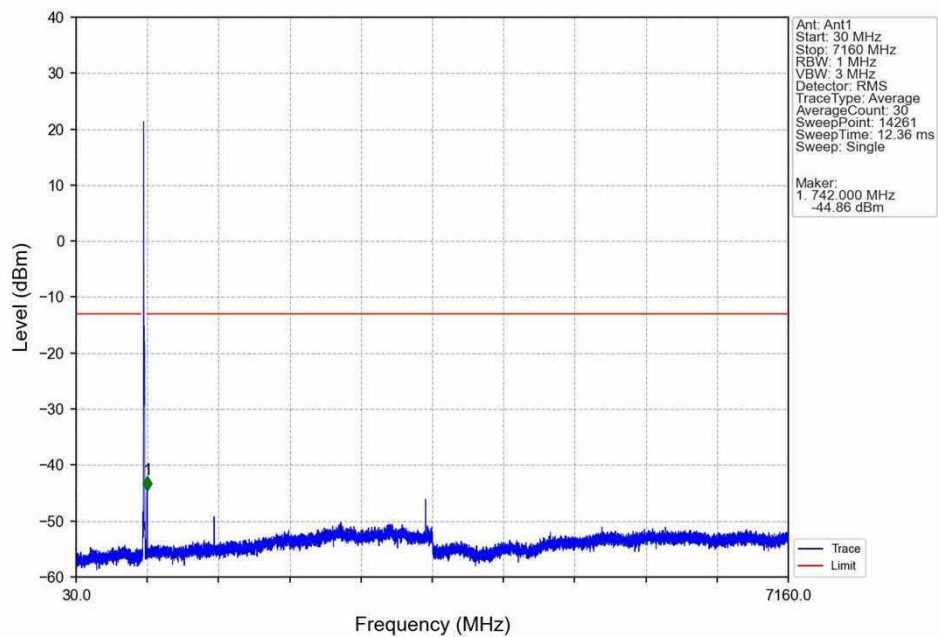
Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



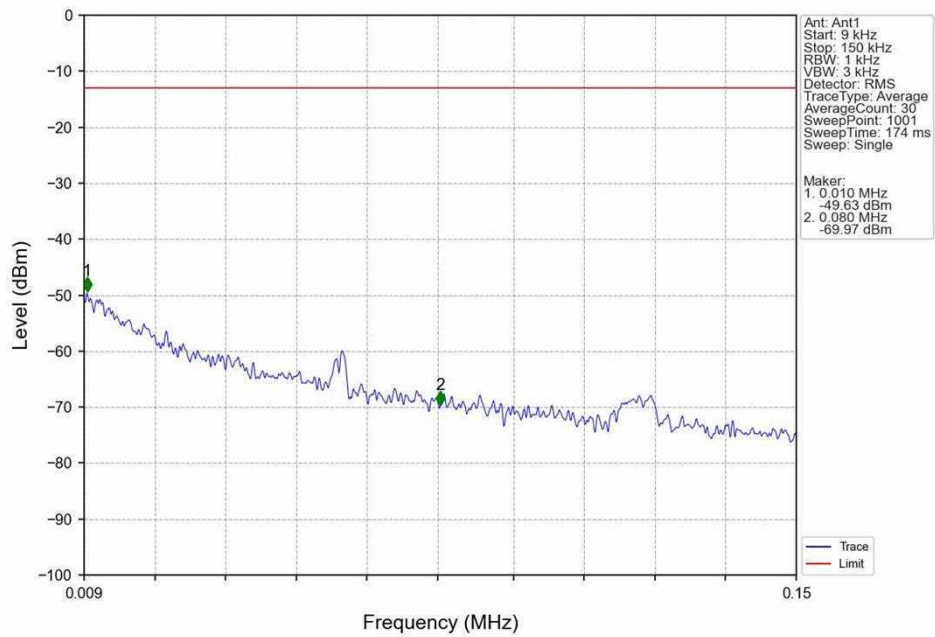
Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



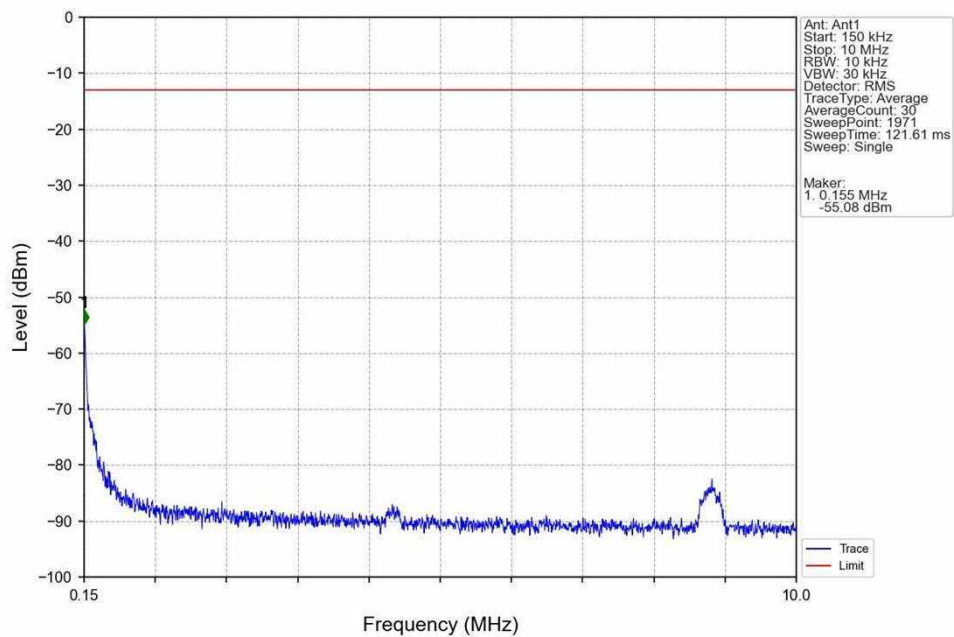
Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



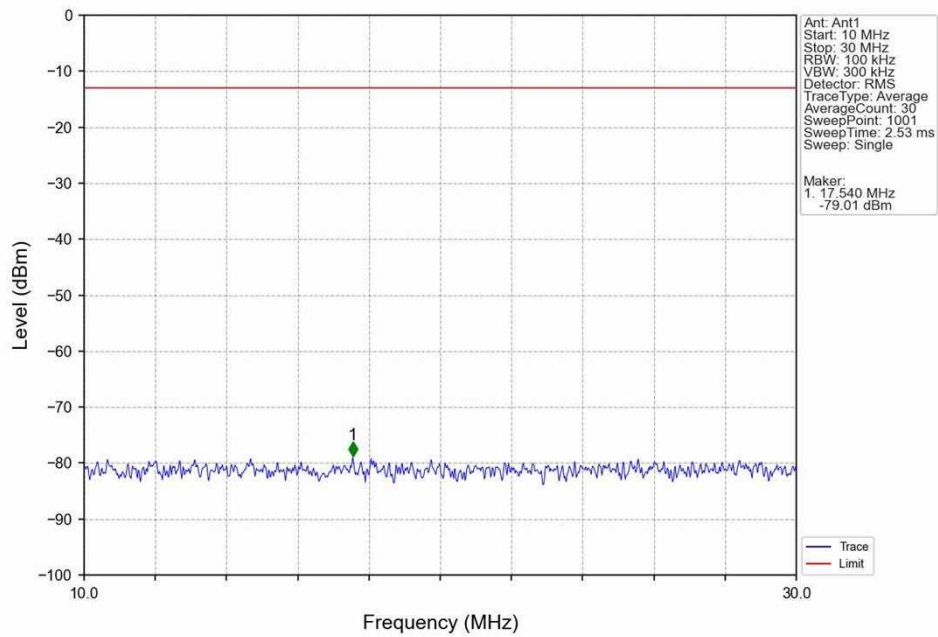
Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



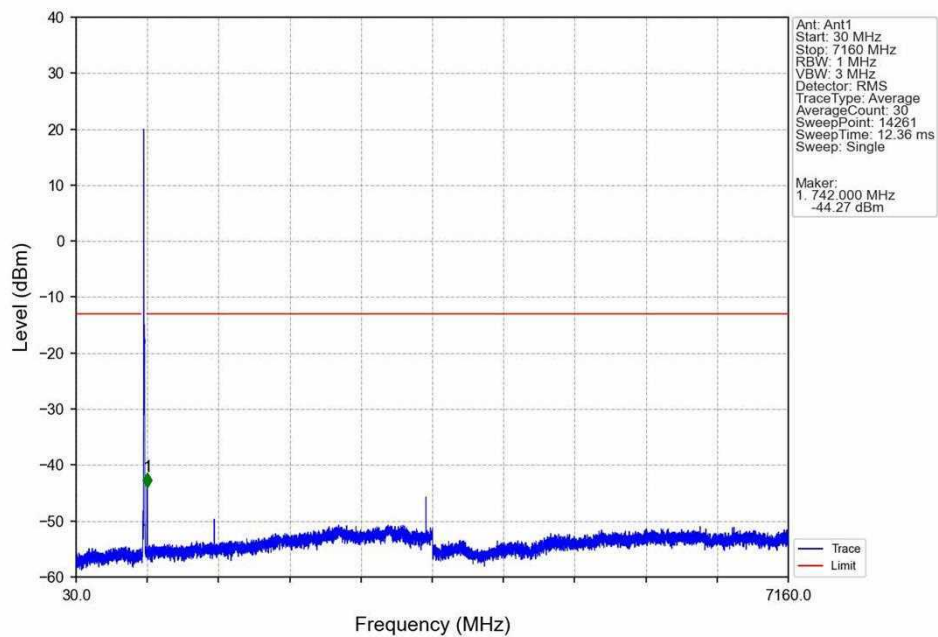
Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



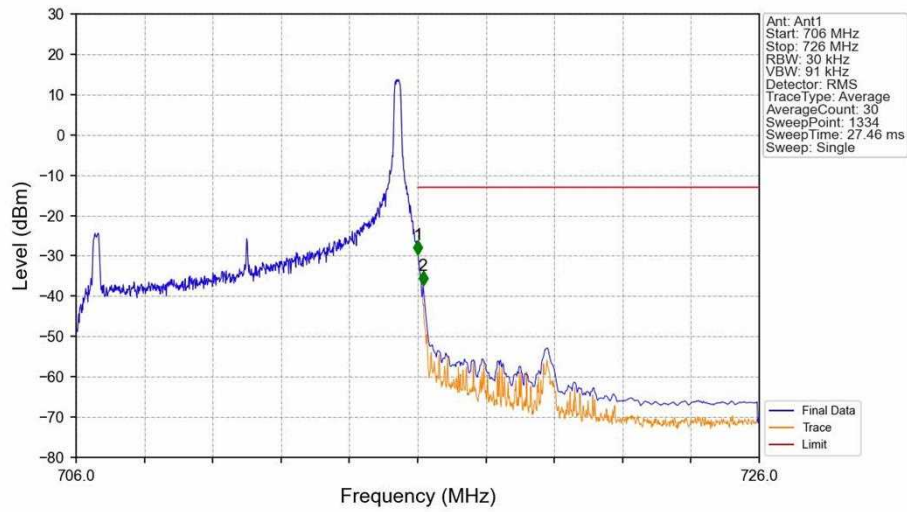
Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV

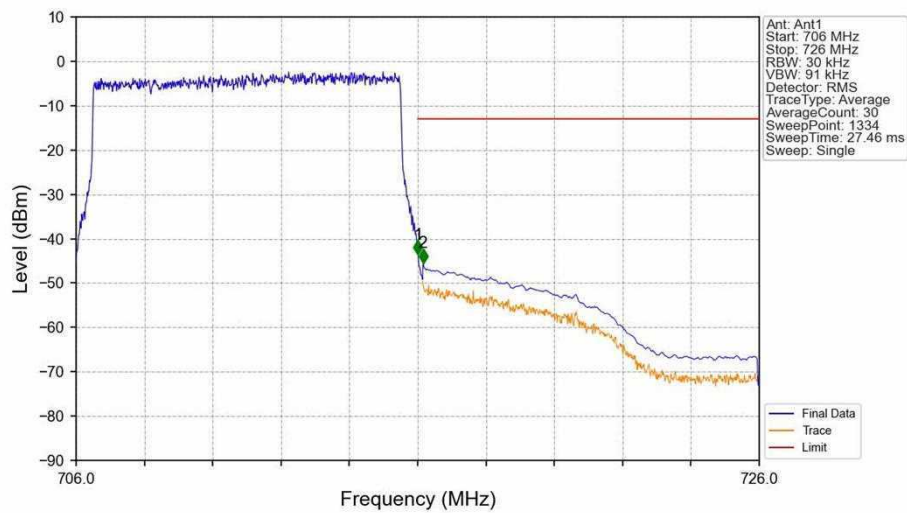


Band17_10MHz_16QAM_HCH_711MHz_RB_1_49_NTNV



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	-29.62	-13	Pass
716.1	726	0.1	CHP	2	716.158	-37.28	-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	-43.42	-13	Pass
716.1	726	0.1	CHP	2	716.158	-45.41	-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	0.1596	0.0589	ppm	4M58G7D	27H	22.03
17	5	706.5	713.5	0.1462	0.0612	ppm	4M55W7D	27H	21.65
17	10	709	711	0.1611	0.0627	ppm	9M06G7D	27H	22.07
17	10	709	711	0.1535	0.0647	ppm	9M08W7D	27H	21.86

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	0.0627	0.0589	ppm	4M58G7D	27H	17.97
17	5	706.5	713.5	0.0574	0.0612	ppm	4M55W7D	27H	17.59
17	10	709	711	0.0632	0.0627	ppm	9M06G7D	27H	18.01
17	10	709	711	0.0603	0.0647	ppm	9M08W7D	27H	17.80