

Appendix RF test data for 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	24.18	-2.50	19.53	<=34.77	Pass
			13	24.34	-2.50	19.69	<=34.77	Pass
			24	24.27	-2.50	19.62	<=34.77	Pass
		12	0	23.30	-2.50	18.65	<=34.77	Pass
			6	23.36	-2.50	18.71	<=34.77	Pass
			13	23.36	-2.50	18.71	<=34.77	Pass
		25	0	23.35	-2.50	18.70	<=34.77	Pass
	710	1	0	24.19	-2.50	19.54	<=34.77	Pass
			13	24.33	-2.50	19.68	<=34.77	Pass
			24	24.24	-2.50	19.59	<=34.77	Pass
		12	0	23.22	-2.50	18.57	<=34.77	Pass
			6	23.30	-2.50	18.65	<=34.77	Pass
			13	23.20	-2.50	18.55	<=34.77	Pass
		25	0	23.22	-2.50	18.57	<=34.77	Pass
	713.5	1	0	24.17	-2.50	19.52	<=34.77	Pass
			13	24.33	-2.50	19.68	<=34.77	Pass
			24	24.24	-2.50	19.59	<=34.77	Pass
		12	0	23.36	-2.50	18.71	<=34.77	Pass
			6	23.35	-2.50	18.70	<=34.77	Pass
			13	23.25	-2.50	18.60	<=34.77	Pass
		25	0	23.30	-2.50	18.65	<=34.77	Pass
16QAM	706.5	1	0	23.26	-2.50	18.61	<=34.77	Pass
			13	23.40	-2.50	18.75	<=34.77	Pass
			24	23.29	-2.50	18.64	<=34.77	Pass
		12	0	22.34	-2.50	17.69	<=34.77	Pass
			6	22.35	-2.50	17.70	<=34.77	Pass
			13	22.38	-2.50	17.73	<=34.77	Pass
		25	0	22.44	-2.50	17.79	<=34.77	Pass
	710	1	0	23.43	-2.50	18.78	<=34.77	Pass
			13	23.49	-2.50	18.84	<=34.77	Pass
			24	23.43	-2.50	18.78	<=34.77	Pass
		12	0	22.30	-2.50	17.65	<=34.77	Pass
			6	22.38	-2.50	17.73	<=34.77	Pass
			13	22.27	-2.50	17.62	<=34.77	Pass
		25	0	22.23	-2.50	17.58	<=34.77	Pass
	713.5	1	0	22.98	-2.50	18.33	<=34.77	Pass
			13	23.15	-2.50	18.50	<=34.77	Pass
			24	23.08	-2.50	18.43	<=34.77	Pass
		12	0	22.35	-2.50	17.70	<=34.77	Pass
			6	22.39	-2.50	17.74	<=34.77	Pass
			13	22.30	-2.50	17.65	<=34.77	Pass
		25	0	22.40	-2.50	17.75	<=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	24.20	-2.50	19.55	<=34.77	Pass
			25	24.49	-2.50	19.84	<=34.77	Pass
			49	24.29	-2.50	19.64	<=34.77	Pass
		25	0	23.22	-2.50	18.57	<=34.77	Pass
			13	23.30	-2.50	18.65	<=34.77	Pass
			25	23.23	-2.50	18.58	<=34.77	Pass
		50	0	23.24	-2.50	18.59	<=34.77	Pass
	710	1	0	24.22	-2.50	19.57	<=34.77	Pass
			25	24.46	-2.50	19.81	<=34.77	Pass
			49	24.29	-2.50	19.64	<=34.77	Pass
		25	0	23.16	-2.50	18.51	<=34.77	Pass
			13	23.29	-2.50	18.64	<=34.77	Pass
			25	23.18	-2.50	18.53	<=34.77	Pass
		50	0	23.20	-2.50	18.55	<=34.77	Pass
	711	1	0	24.25	-2.50	19.60	<=34.77	Pass
			25	24.58	-2.50	19.93	<=34.77	Pass
			49	24.40	-2.50	19.75	<=34.77	Pass
		25	0	23.18	-2.50	18.53	<=34.77	Pass
			13	23.28	-2.50	18.63	<=34.77	Pass
			25	23.19	-2.50	18.54	<=34.77	Pass
		50	0	23.23	-2.50	18.58	<=34.77	Pass
16QAM	709	1	0	23.38	-2.50	18.73	<=34.77	Pass
			25	23.57	-2.50	18.92	<=34.77	Pass
			49	23.46	-2.50	18.81	<=34.77	Pass
		25	0	22.29	-2.50	17.64	<=34.77	Pass
			13	22.38	-2.50	17.73	<=34.77	Pass
			25	22.29	-2.50	17.64	<=34.77	Pass
		50	0	22.31	-2.50	17.66	<=34.77	Pass
	710	1	0	23.74	-2.50	19.09	<=34.77	Pass
			25	23.86	-2.50	19.21	<=34.77	Pass
			49	23.79	-2.50	19.14	<=34.77	Pass
		25	0	22.29	-2.50	17.64	<=34.77	Pass
			13	22.41	-2.50	17.76	<=34.77	Pass
			25	22.32	-2.50	17.67	<=34.77	Pass
		50	0	22.31	-2.50	17.66	<=34.77	Pass
	711	1	0	23.22	-2.50	18.57	<=34.77	Pass
			25	23.42	-2.50	18.77	<=34.77	Pass
			49	23.34	-2.50	18.69	<=34.77	Pass
		25	0	22.32	-2.50	17.67	<=34.77	Pass
			13	22.40	-2.50	17.75	<=34.77	Pass
			25	22.32	-2.50	17.67	<=34.77	Pass
		50	0	22.29	-2.50	17.64	<=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	-4.063	-0.0058	-2.5 to 2.5	Pass
					3.85	-9.799	-0.0139	-2.5 to 2.5	Pass
					4.43	-8.626	-0.0122	-2.5 to 2.5	Pass

				-30	3.85	-3.133	-0.0044	-2.5 to 2.5	Pass
				-20	3.85	-5.550	-0.0079	-2.5 to 2.5	Pass
				-10	3.85	-6.995	-0.0099	-2.5 to 2.5	Pass
				0	3.85	-7.668	-0.0109	-2.5 to 2.5	Pass
				10	3.85	-6.466	-0.0092	-2.5 to 2.5	Pass
				30	3.85	-2.718	-0.0038	-2.5 to 2.5	Pass
				40	3.85	-7.710	-0.0109	-2.5 to 2.5	Pass
				50	3.85	-9.670	-0.0137	-2.5 to 2.5	Pass
	710	25	0	20	3.27	-5.665	-0.0080	-2.5 to 2.5	Pass
					3.85	-5.836	-0.0082	-2.5 to 2.5	Pass
					4.43	-6.723	-0.0095	-2.5 to 2.5	Pass
				-30	3.85	-4.106	-0.0058	-2.5 to 2.5	Pass
				-20	3.85	-5.393	-0.0076	-2.5 to 2.5	Pass
				-10	3.85	-4.892	-0.0069	-2.5 to 2.5	Pass
				0	3.85	-7.210	-0.0102	-2.5 to 2.5	Pass
				10	3.85	-4.735	-0.0067	-2.5 to 2.5	Pass
				30	3.85	-5.937	-0.0084	-2.5 to 2.5	Pass
				40	3.85	-5.136	-0.0072	-2.5 to 2.5	Pass
				50	3.85	-7.296	-0.0103	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-6.437	-0.0090	-2.5 to 2.5	Pass
					3.85	-3.805	-0.0053	-2.5 to 2.5	Pass
					4.43	-7.067	-0.0099	-2.5 to 2.5	Pass
				-30	3.85	-4.463	-0.0063	-2.5 to 2.5	Pass
				-20	3.85	-6.709	-0.0094	-2.5 to 2.5	Pass
				-10	3.85	-7.410	-0.0104	-2.5 to 2.5	Pass
				0	3.85	-6.709	-0.0094	-2.5 to 2.5	Pass
				10	3.85	-6.266	-0.0088	-2.5 to 2.5	Pass
				30	3.85	-6.337	-0.0089	-2.5 to 2.5	Pass
				40	3.85	-5.765	-0.0081	-2.5 to 2.5	Pass
				50	3.85	-6.509	-0.0091	-2.5 to 2.5	Pass
16QAM	706.5	25	0	20	3.27	-5.479	-0.0078	-2.5 to 2.5	Pass
					3.85	-8.812	-0.0125	-2.5 to 2.5	Pass
					4.43	-5.164	-0.0073	-2.5 to 2.5	Pass
				-30	3.85	-6.967	-0.0099	-2.5 to 2.5	Pass
				-20	3.85	-5.007	-0.0071	-2.5 to 2.5	Pass
				-10	3.85	-9.570	-0.0135	-2.5 to 2.5	Pass
				0	3.85	-6.881	-0.0097	-2.5 to 2.5	Pass
				10	3.85	-6.466	-0.0092	-2.5 to 2.5	Pass
				30	3.85	-7.553	-0.0107	-2.5 to 2.5	Pass
				40	3.85	-5.393	-0.0076	-2.5 to 2.5	Pass
				50	3.85	-4.334	-0.0061	-2.5 to 2.5	Pass
	710	25	0	20	3.27	-5.221	-0.0074	-2.5 to 2.5	Pass
					3.85	-5.322	-0.0075	-2.5 to 2.5	Pass
					4.43	-5.779	-0.0081	-2.5 to 2.5	Pass
				-30	3.85	-5.636	-0.0079	-2.5 to 2.5	Pass
				-20	3.85	-6.480	-0.0091	-2.5 to 2.5	Pass
				-10	3.85	-8.383	-0.0118	-2.5 to 2.5	Pass
				0	3.85	-3.247	-0.0046	-2.5 to 2.5	Pass
				10	3.85	-7.625	-0.0107	-2.5 to 2.5	Pass
				30	3.85	-7.911	-0.0111	-2.5 to 2.5	Pass
				40	3.85	-4.506	-0.0063	-2.5 to 2.5	Pass
				50	3.85	-7.353	-0.0104	-2.5 to 2.5	Pass
	713.5	25	0	20	3.27	-5.465	-0.0077	-2.5 to 2.5	Pass
					3.85	-9.212	-0.0129	-2.5 to 2.5	Pass
					4.43	-6.151	-0.0086	-2.5 to 2.5	Pass
				-30	3.85	-8.540	-0.0120	-2.5 to 2.5	Pass
				-20	3.85	-9.642	-0.0135	-2.5 to 2.5	Pass
				-10	3.85	-7.510	-0.0105	-2.5 to 2.5	Pass
				0	3.85	-7.968	-0.0112	-2.5 to 2.5	Pass

				10	3.85	-5.922	-0.0083	-2.5 to 2.5	Pass
				30	3.85	-8.740	-0.0122	-2.5 to 2.5	Pass
				40	3.85	-9.613	-0.0135	-2.5 to 2.5	Pass
				50	3.85	-9.370	-0.0131	-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	-6.909	-0.0097	-2.5 to 2.5	Pass
					3.85	-5.608	-0.0079	-2.5 to 2.5	Pass
					4.43	-3.505	-0.0049	-2.5 to 2.5	Pass
				-30	3.85	-4.907	-0.0069	-2.5 to 2.5	Pass
				-20	3.85	-7.539	-0.0106	-2.5 to 2.5	Pass
				-10	3.85	-2.675	-0.0038	-2.5 to 2.5	Pass
				0	3.85	-5.350	-0.0075	-2.5 to 2.5	Pass
				10	3.85	-1.845	-0.0026	-2.5 to 2.5	Pass
				30	3.85	-6.766	-0.0095	-2.5 to 2.5	Pass
				40	3.85	-7.081	-0.0100	-2.5 to 2.5	Pass
				50	3.85	-7.267	-0.0102	-2.5 to 2.5	Pass
	710	50	0	20	3.27	-9.885	-0.0139	-2.5 to 2.5	Pass
					3.85	-7.339	-0.0103	-2.5 to 2.5	Pass
					4.43	-4.649	-0.0065	-2.5 to 2.5	Pass
				-30	3.85	-6.180	-0.0087	-2.5 to 2.5	Pass
				-20	3.85	-3.691	-0.0052	-2.5 to 2.5	Pass
				-10	3.85	-7.353	-0.0104	-2.5 to 2.5	Pass
				0	3.85	-9.212	-0.0130	-2.5 to 2.5	Pass
				10	3.85	-5.450	-0.0077	-2.5 to 2.5	Pass
				30	3.85	-4.692	-0.0066	-2.5 to 2.5	Pass
				40	3.85	-8.354	-0.0118	-2.5 to 2.5	Pass
				50	3.85	-7.224	-0.0102	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-6.452	-0.0091	-2.5 to 2.5	Pass
					3.85	-8.383	-0.0118	-2.5 to 2.5	Pass
					4.43	-3.920	-0.0055	-2.5 to 2.5	Pass
				-30	3.85	-7.625	-0.0107	-2.5 to 2.5	Pass
				-20	3.85	-6.623	-0.0093	-2.5 to 2.5	Pass
				-10	3.85	-5.136	-0.0072	-2.5 to 2.5	Pass
				0	3.85	-6.094	-0.0086	-2.5 to 2.5	Pass
				10	3.85	-7.668	-0.0108	-2.5 to 2.5	Pass
				30	3.85	-7.381	-0.0104	-2.5 to 2.5	Pass
				40	3.85	-4.778	-0.0067	-2.5 to 2.5	Pass
16QAM	709	50	0	20	3.27	-3.247	-0.0046	-2.5 to 2.5	Pass
					3.85	-4.735	-0.0067	-2.5 to 2.5	Pass
					4.43	-4.292	-0.0061	-2.5 to 2.5	Pass
				-30	3.85	-8.626	-0.0122	-2.5 to 2.5	Pass
				-20	3.85	-6.137	-0.0087	-2.5 to 2.5	Pass
				-10	3.85	-6.952	-0.0098	-2.5 to 2.5	Pass
				0	3.85	-7.038	-0.0099	-2.5 to 2.5	Pass
				10	3.85	-8.712	-0.0123	-2.5 to 2.5	Pass
				30	3.85	-3.705	-0.0052	-2.5 to 2.5	Pass
				40	3.85	-7.238	-0.0102	-2.5 to 2.5	Pass
				50	3.85	-8.640	-0.0122	-2.5 to 2.5	Pass
	710	50	0	20	3.27	-3.576	-0.0050	-2.5 to 2.5	Pass
					3.85	-5.221	-0.0074	-2.5 to 2.5	Pass
					4.43	-4.463	-0.0063	-2.5 to 2.5	Pass
				-30	3.85	-7.782	-0.0110	-2.5 to 2.5	Pass

				-20	3.85	-9.084	-0.0128	-2.5 to 2.5	Pass
				-10	3.85	-6.881	-0.0097	-2.5 to 2.5	Pass
				0	3.85	-9.484	-0.0134	-2.5 to 2.5	Pass
				10	3.85	-8.540	-0.0120	-2.5 to 2.5	Pass
				30	3.85	-3.748	-0.0053	-2.5 to 2.5	Pass
				40	3.85	-2.675	-0.0038	-2.5 to 2.5	Pass
				50	3.85	-2.975	-0.0042	-2.5 to 2.5	Pass
	711	50	0	20	3.27	-4.821	-0.0068	-2.5 to 2.5	Pass
					3.85	-6.223	-0.0088	-2.5 to 2.5	Pass
					4.43	-7.567	-0.0106	-2.5 to 2.5	Pass
				-30	3.85	-5.221	-0.0073	-2.5 to 2.5	Pass
				-20	3.85	-5.951	-0.0084	-2.5 to 2.5	Pass
				-10	3.85	-8.683	-0.0122	-2.5 to 2.5	Pass
				0	3.85	-4.921	-0.0069	-2.5 to 2.5	Pass
				10	3.85	-5.307	-0.0075	-2.5 to 2.5	Pass
				30	3.85	-9.069	-0.0128	-2.5 to 2.5	Pass
				40	3.85	-8.097	-0.0114	-2.5 to 2.5	Pass
				50	3.85	-0.658	-0.0009	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B17_5MHz

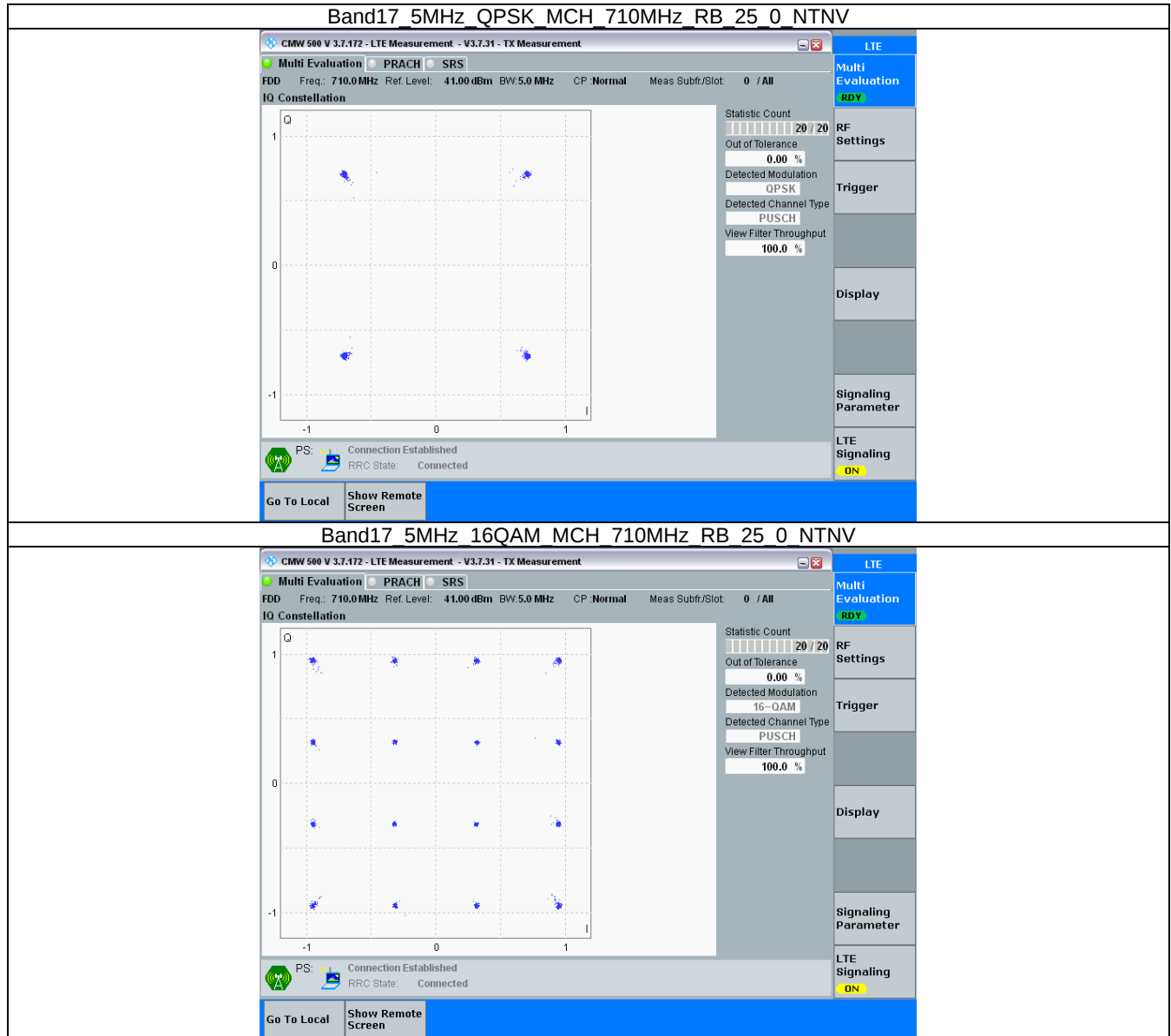
Band: 17 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	710	25	0	Refer To Test Graph		Pass
16QAM	710	25	0	Refer To Test Graph		Pass

3.1.2 B17_10MHz

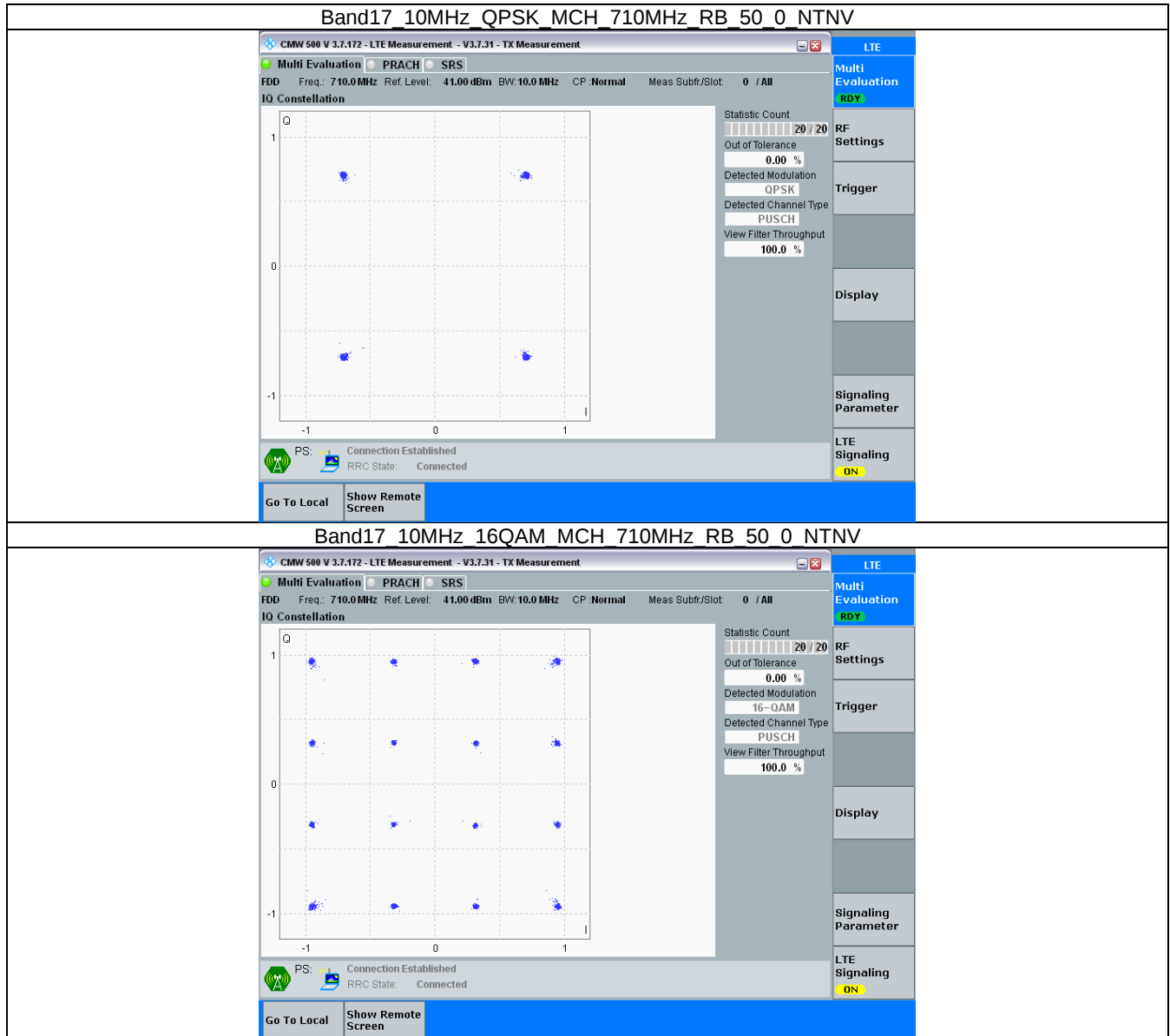
Band: 17 / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	710	50	0	Refer To Test Graph		Pass
16QAM	710	50	0	Refer To Test Graph		Pass

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	4.577	/	Pass
		710	25	0	4.558	/	Pass
		713.5	25	0	4.589	/	Pass
	16QAM	706.5	25	0	4.607	/	Pass
		710	25	0	4.578	/	Pass
		713.5	25	0	4.571	/	Pass
10	QPSK	709	50	0	9.049	/	Pass
		710	50	0	9.076	/	Pass
		711	50	0	9.066	/	Pass
	16QAM	709	50	0	9.059	/	Pass
		710	50	0	9.064	/	Pass
		711	50	0	9.021	/	Pass

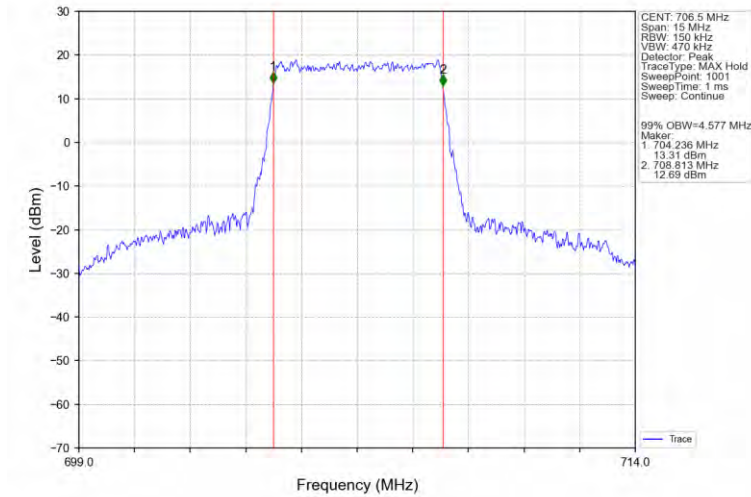
4.1.2 Band17_XDB

Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	5.291	/	Pass
		710	25	0	5.239	/	Pass
		713.5	25	0	5.288	/	Pass
	16QAM	706.5	25	0	5.273	/	Pass
		710	25	0	5.225	/	Pass
		713.5	25	0	5.258	/	Pass
10	QPSK	709	50	0	10.275	/	Pass
		710	50	0	10.391	/	Pass
		711	50	0	10.345	/	Pass
	16QAM	709	50	0	10.057	/	Pass
		710	50	0	10.223	/	Pass
		711	50	0	10.221	/	Pass

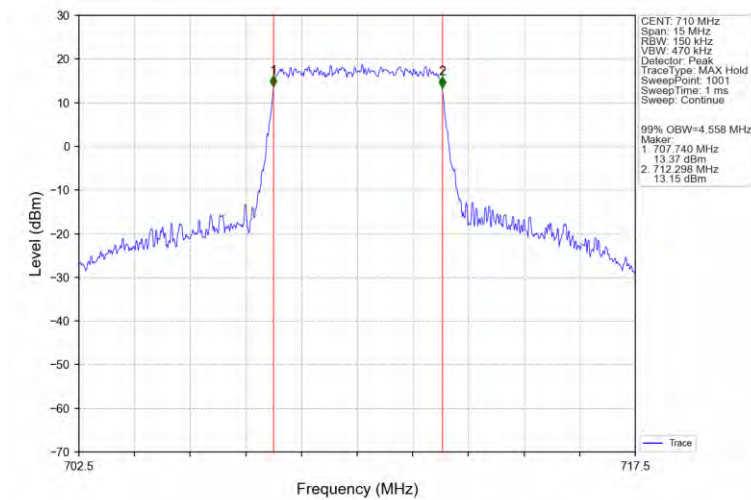
4.2 Test Graph

4.2.1 Band17_OBW

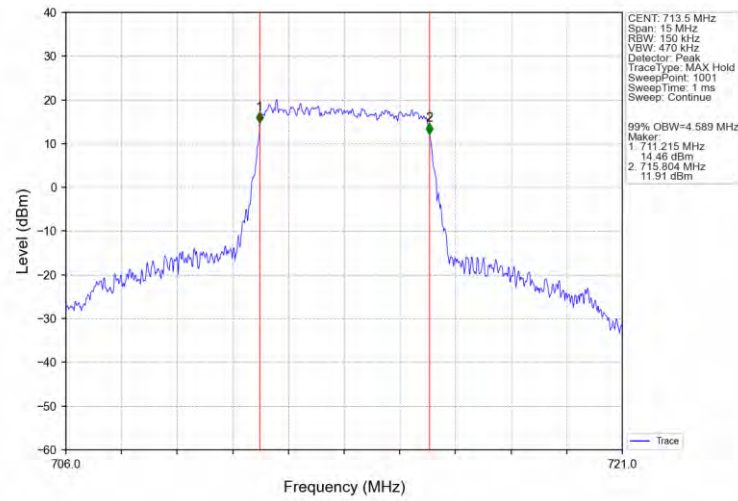
Band17 5MHz QPSK LCH 706.5MHz RB 25 0 NTNV



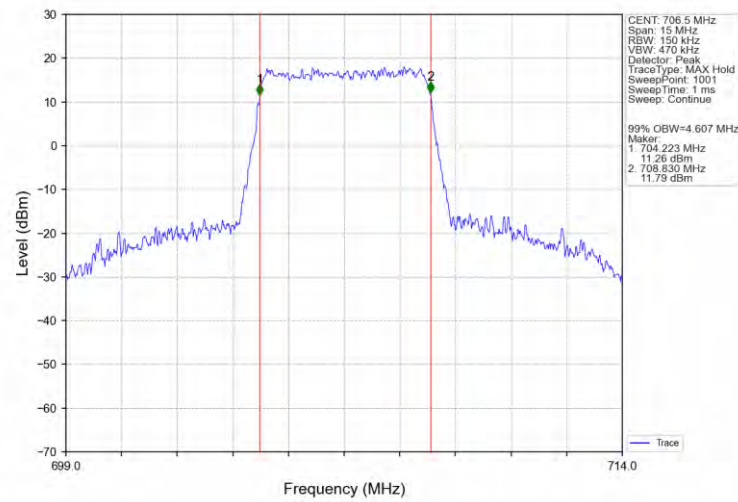
Band17 5MHz QPSK MCH 710MHz RB 25 0 NTNV



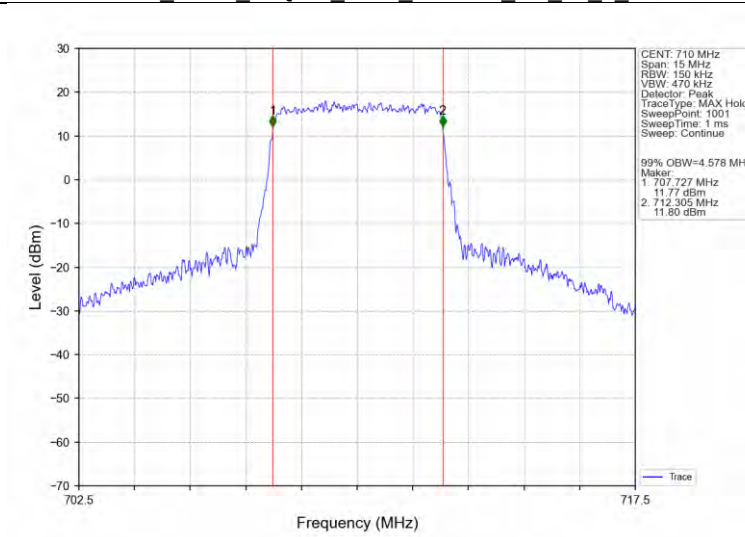
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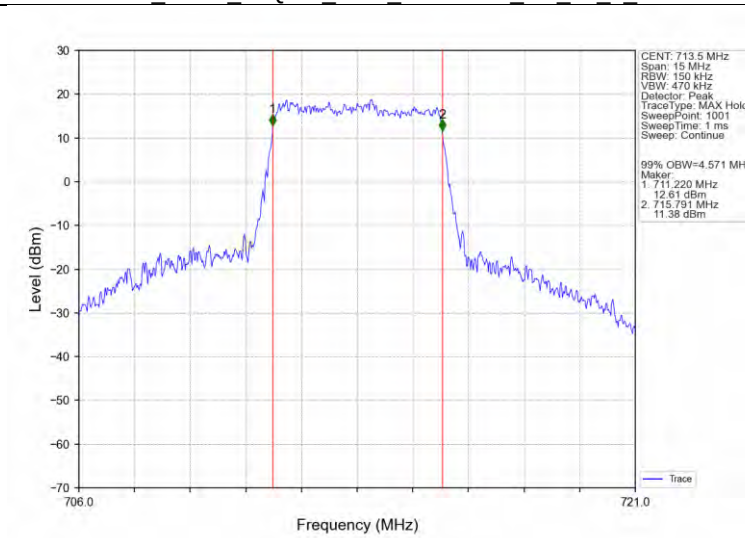
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



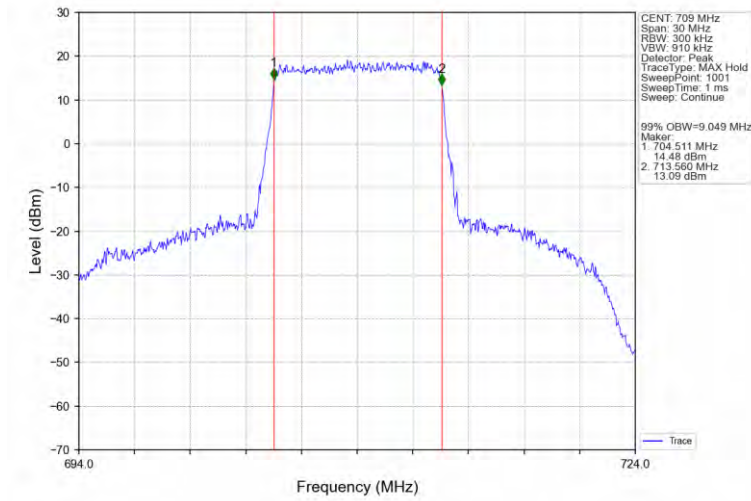
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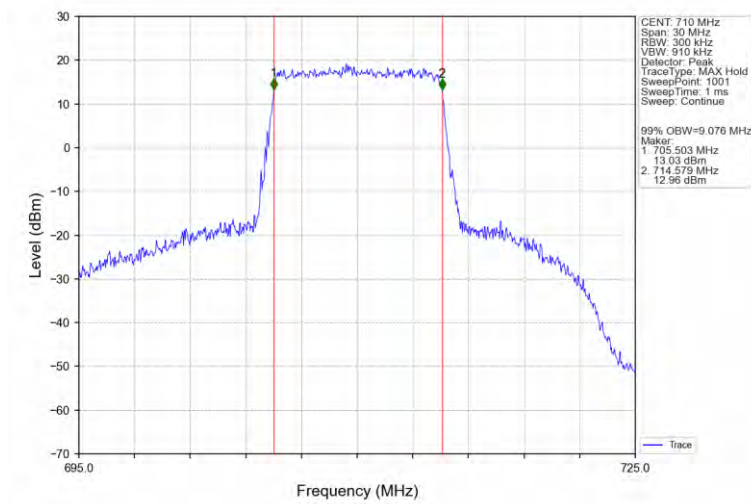
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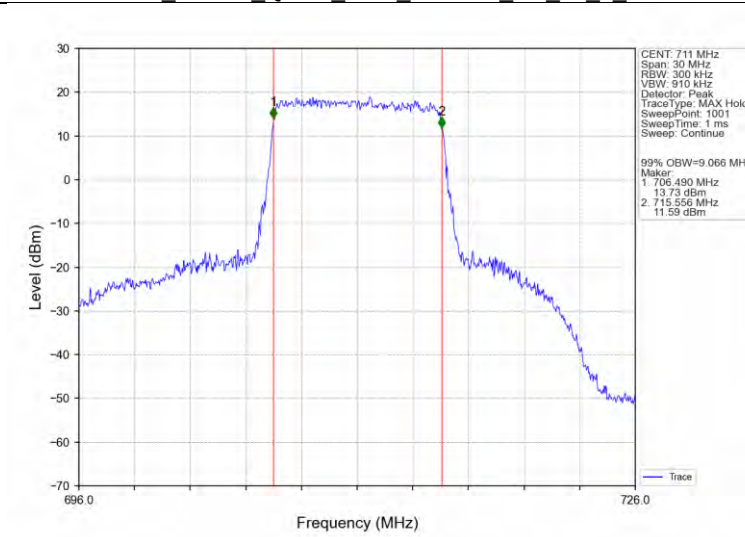
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



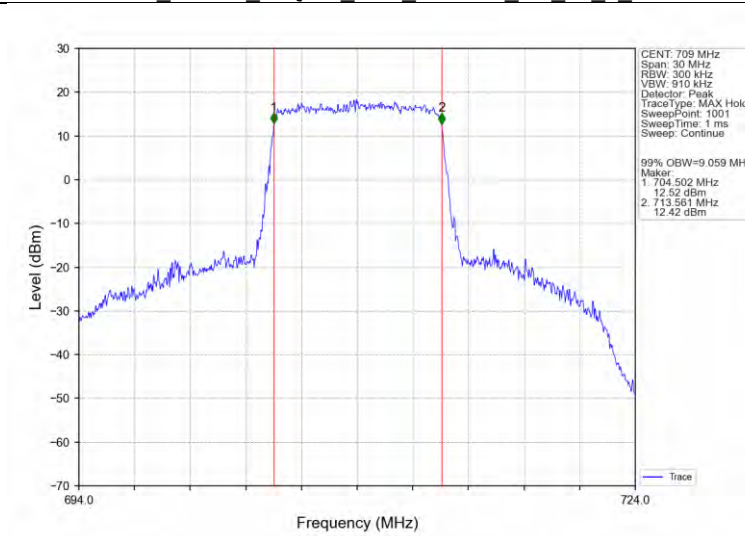
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



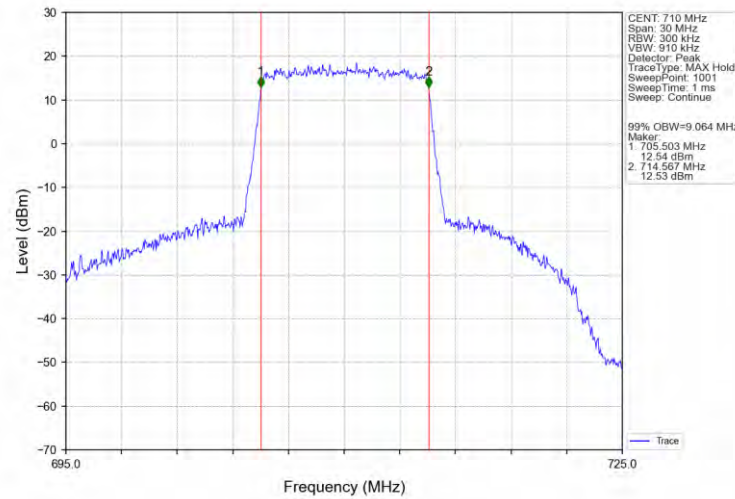
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



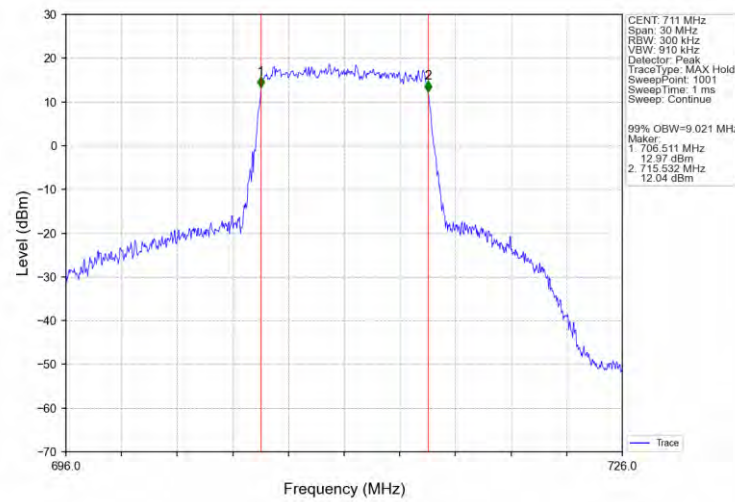
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV

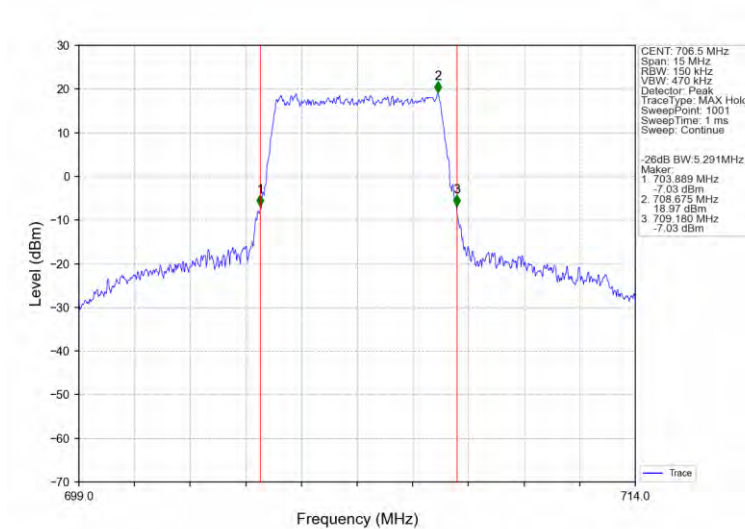


Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV

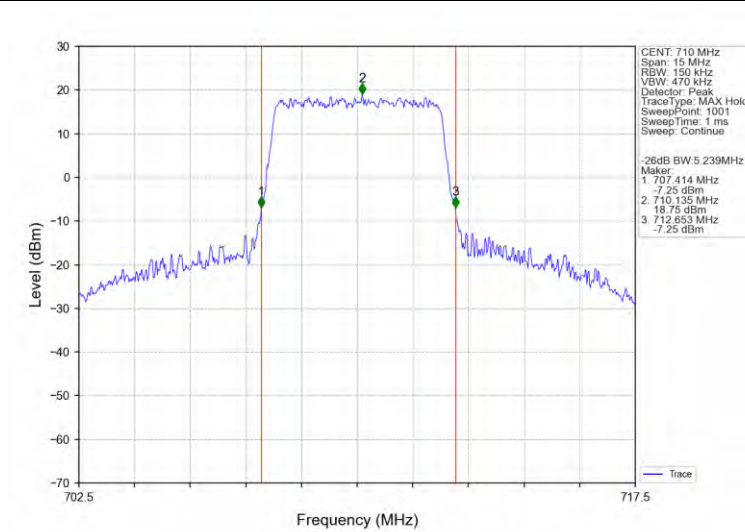


4.2.2 Band17_XDB

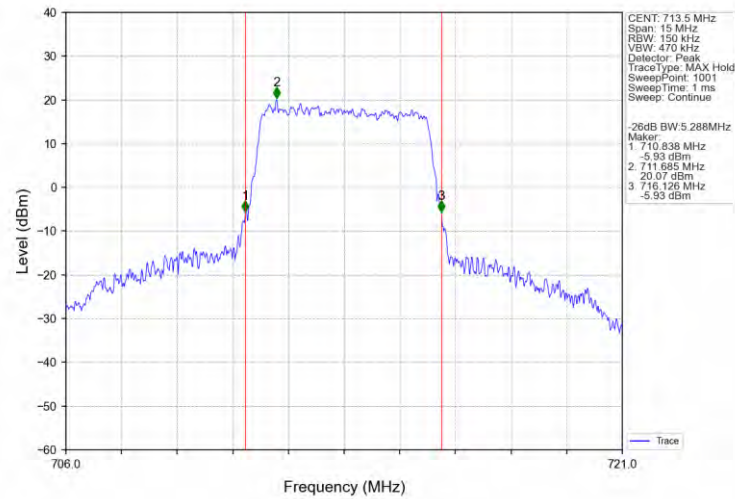
Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV



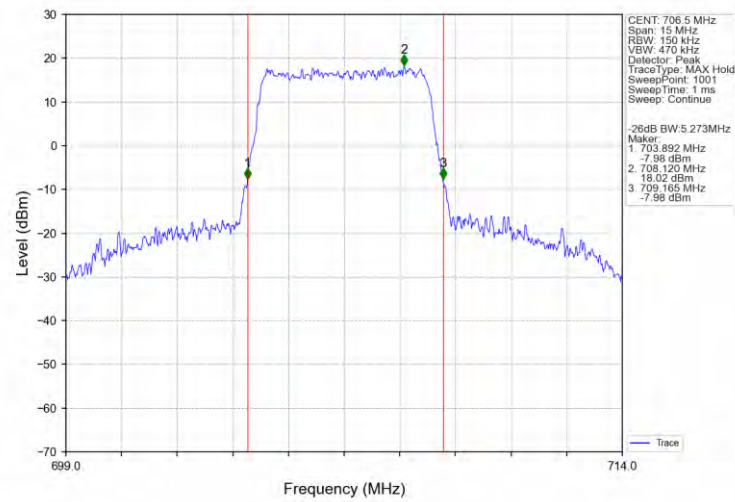
Band17_5MHz_QPSK_MCH_710MHz_RB_25_0_NTNV



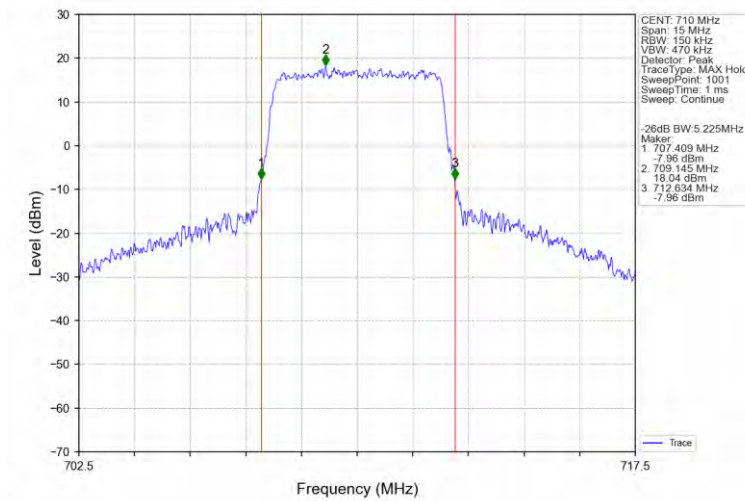
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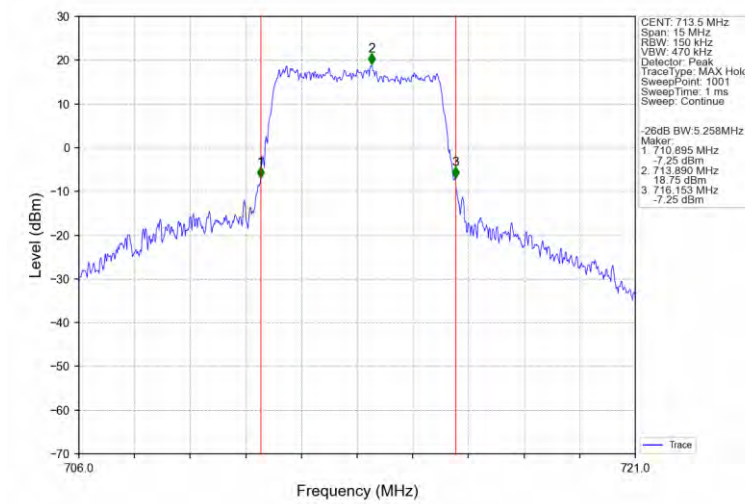
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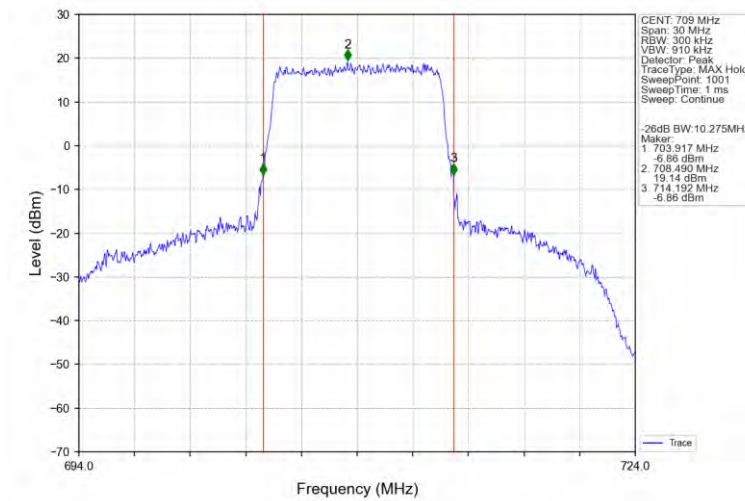
Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



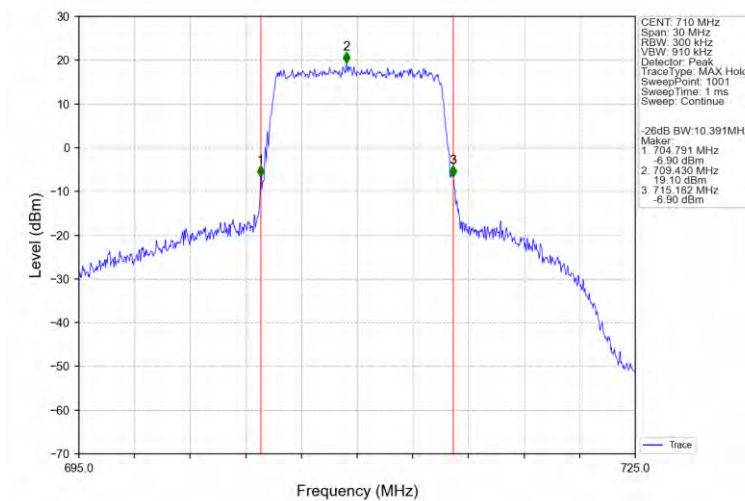
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



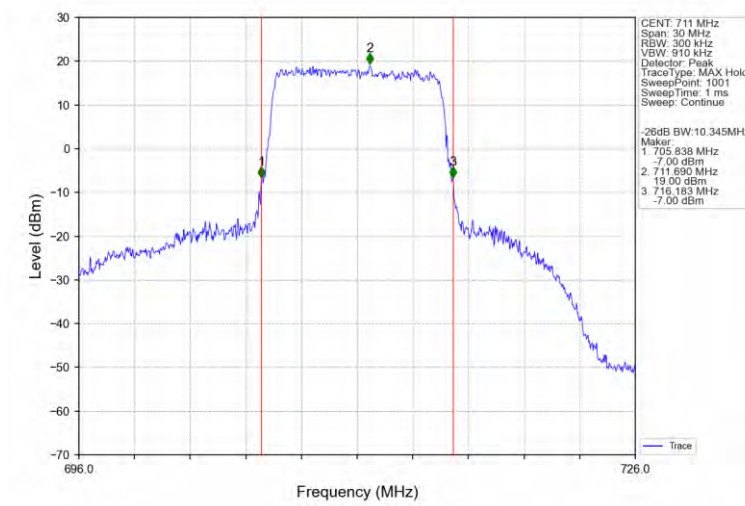
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



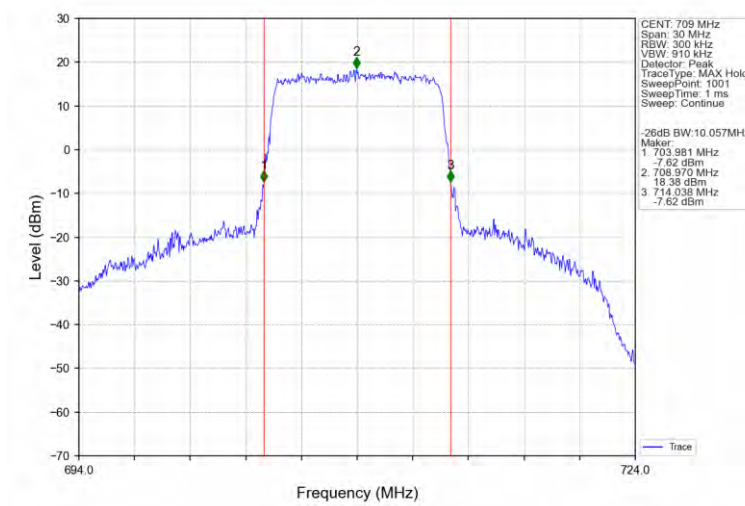
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



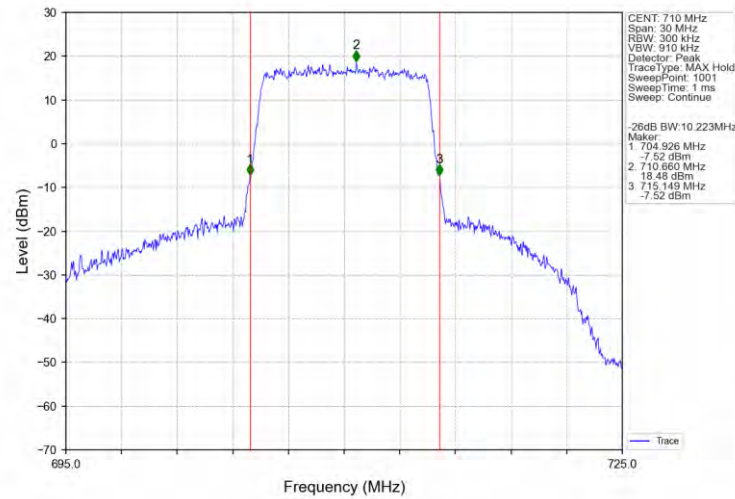
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



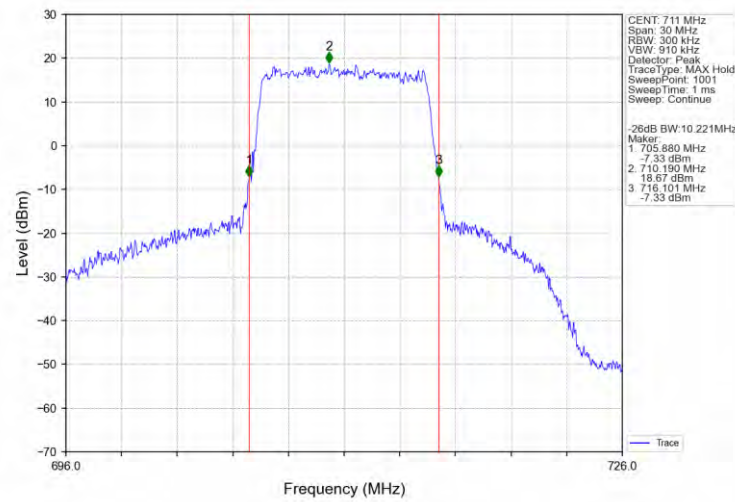
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



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	5.36	<=13	Pass
	710	25	0	5.11	<=13	Pass
	713.5	25	0	5.19	<=13	Pass
16QAM	706.5	25	0	6.06	<=13	Pass
	710	25	0	5.82	<=13	Pass
	713.5	25	0	5.88	<=13	Pass

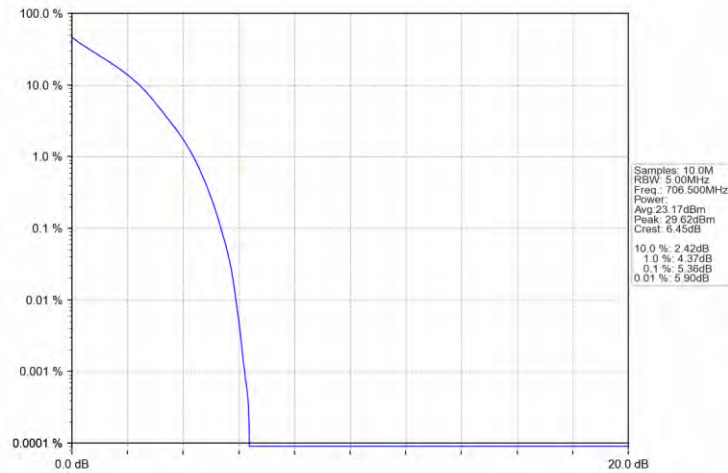
5.1.2 B17_10MHz

Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	709	50	0	5.19	<=13	Pass
	710	50	0	5.19	<=13	Pass
	711	50	0	5.16	<=13	Pass
16QAM	709	50	0	5.96	<=13	Pass
	710	50	0	5.95	<=13	Pass
	711	50	0	5.91	<=13	Pass

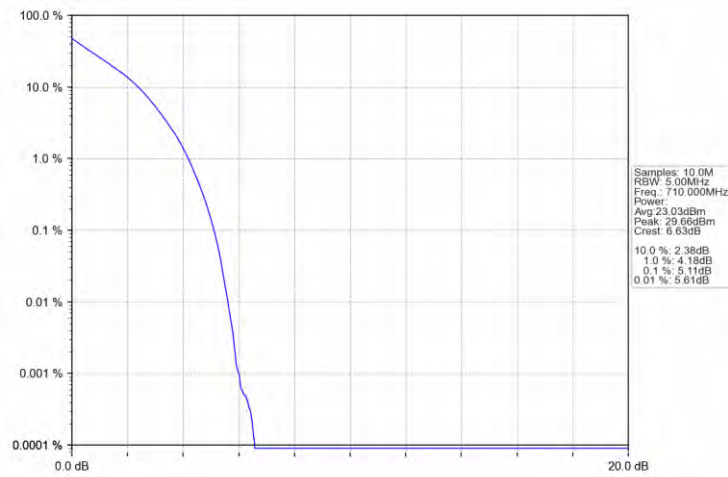
5.2 Test Graph

5.2.1 B17_5MHz

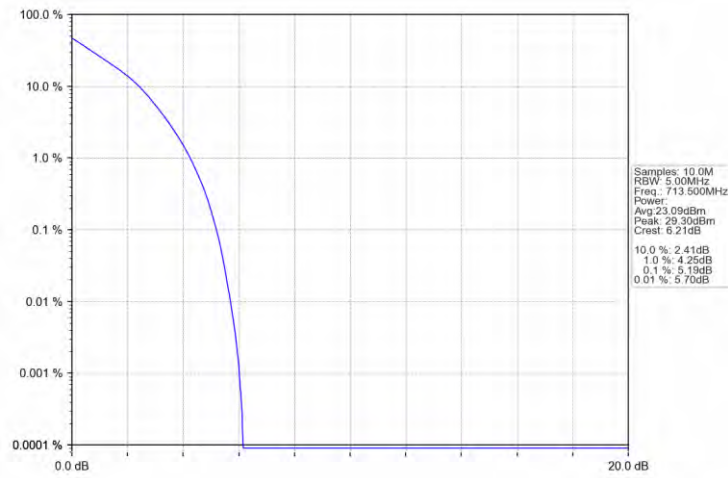
Band17 5MHz QPSK LCH 706.5MHz RB 25 0 NTNV



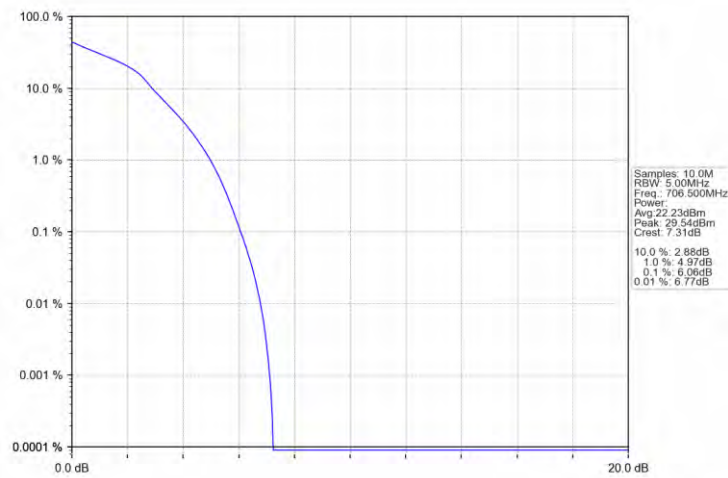
Band17 5MHz QPSK MCH 710MHz RB 25 0 NTNV



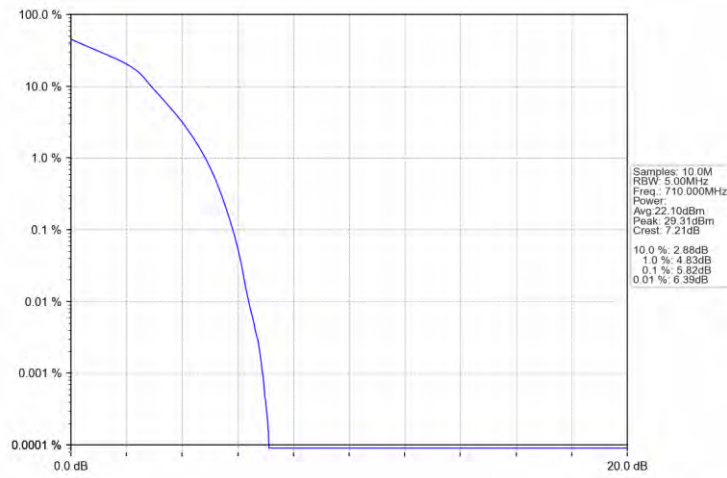
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



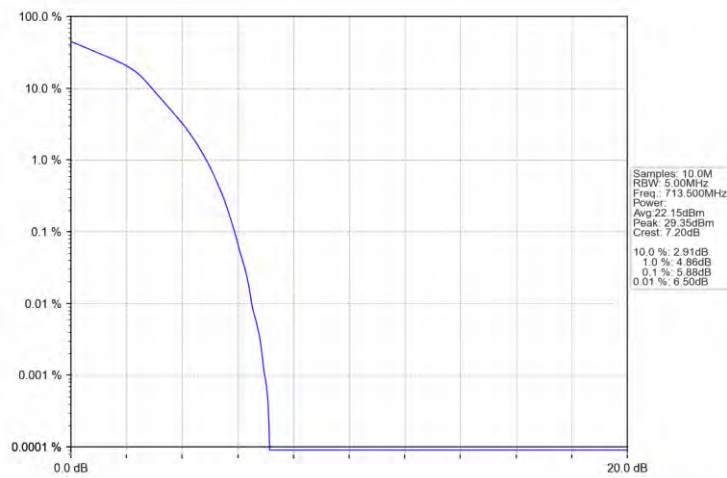
Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV

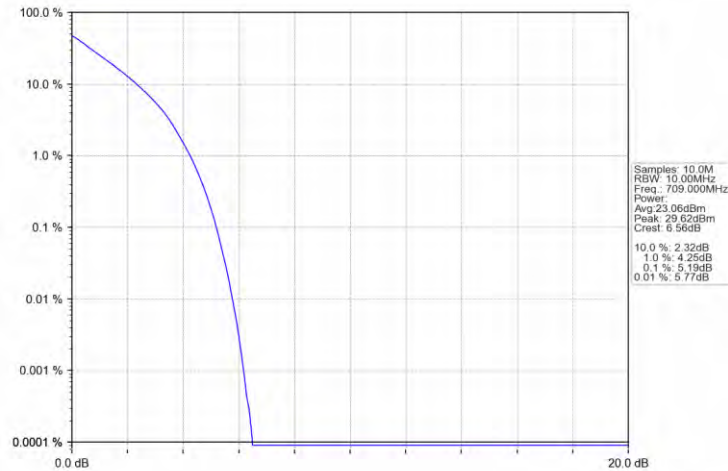


Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

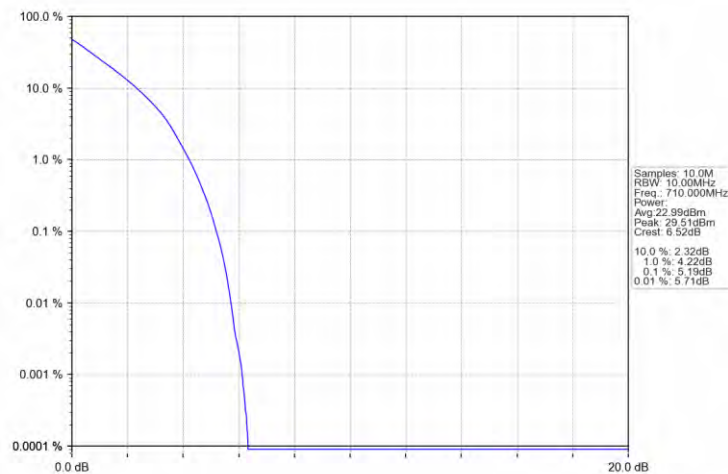


5.2.2 B17_10MHz

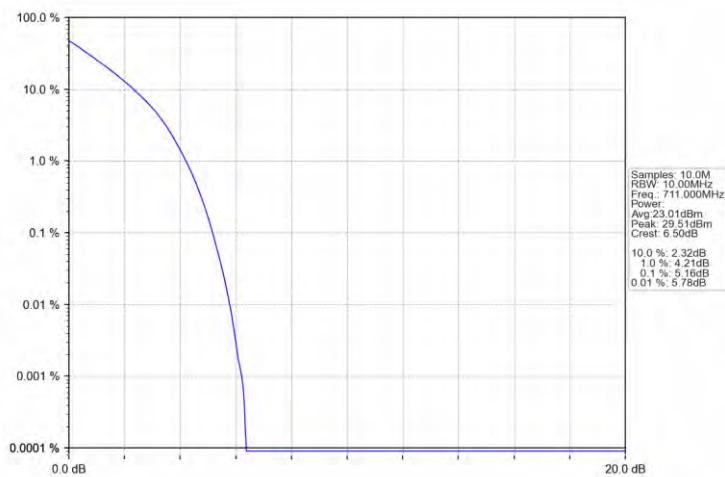
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



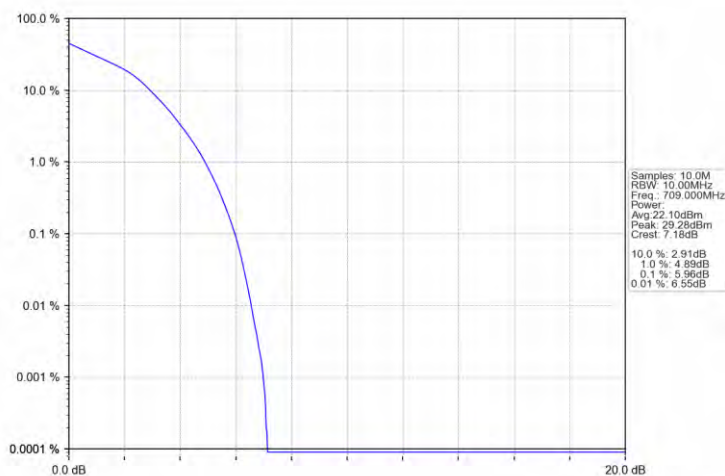
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



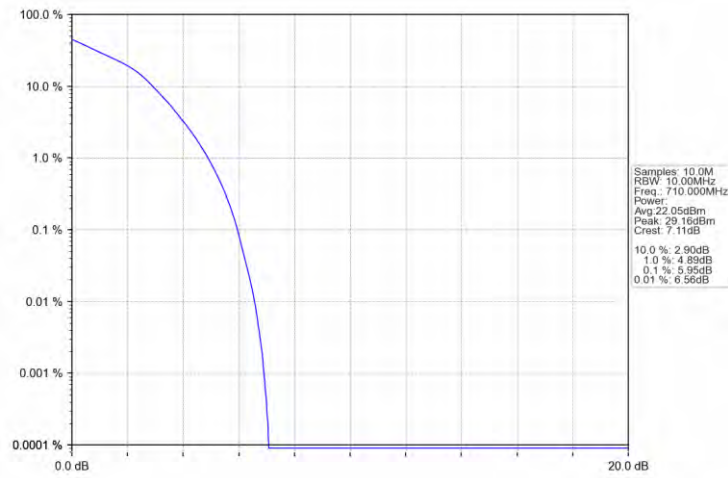
Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



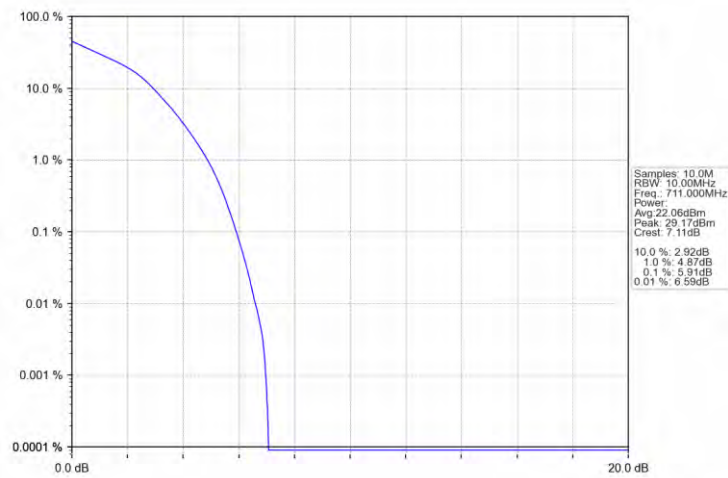
Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



6. Spurious Emission

6.1 Test Result

6.1.1 B17_5MHz

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

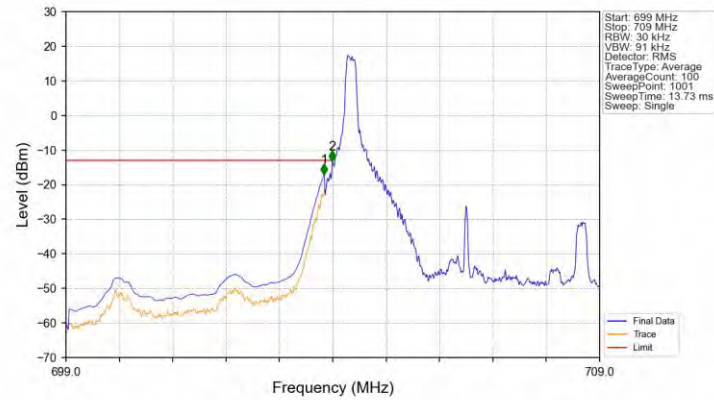
6.1.2 B17_10MHz

Band: 17 / Bandwidth: 10MHz / 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
	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

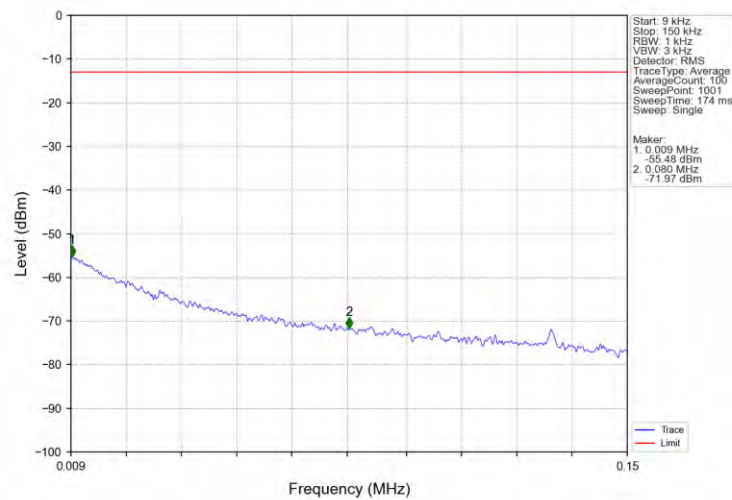
6.2.1 B17_5MHz

Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV

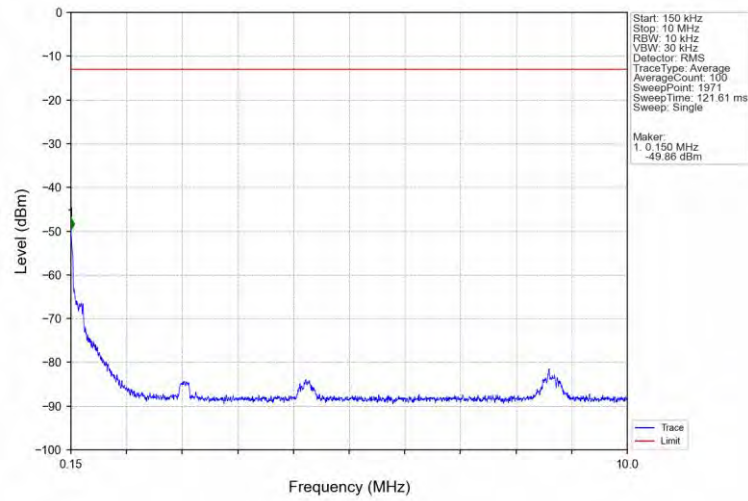


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-17.04	-13	Pass
703.9	704	0.03	/	2	703.990	-13.27	-13	Pass
704	709	0.03	/	/	/	/	/	/

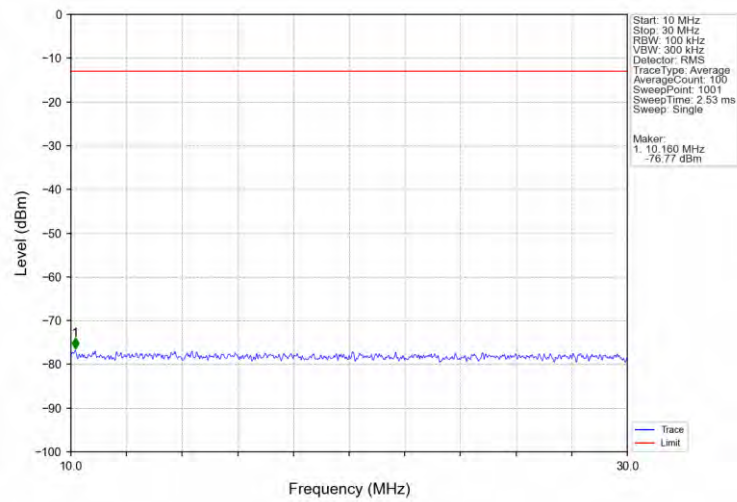
Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV



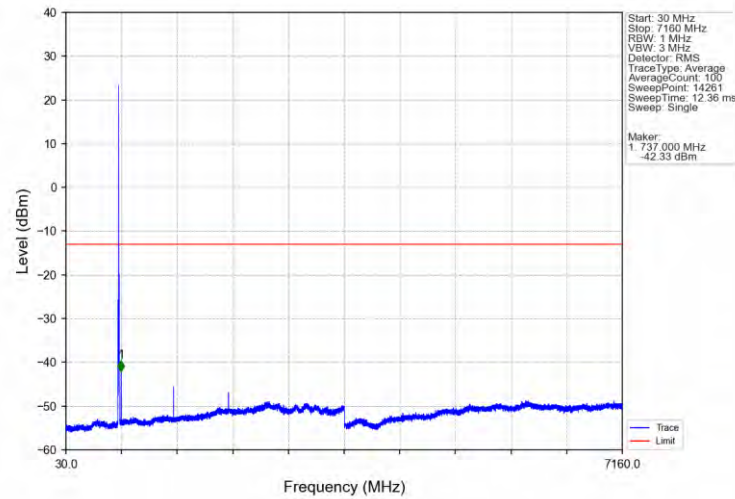
Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV



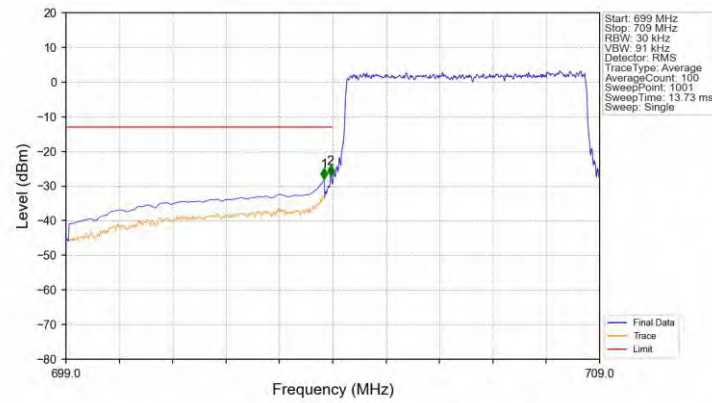
Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV



Band17_5MHz_QPSK_LCH_706.5MHz_RB_1_0_NTNV

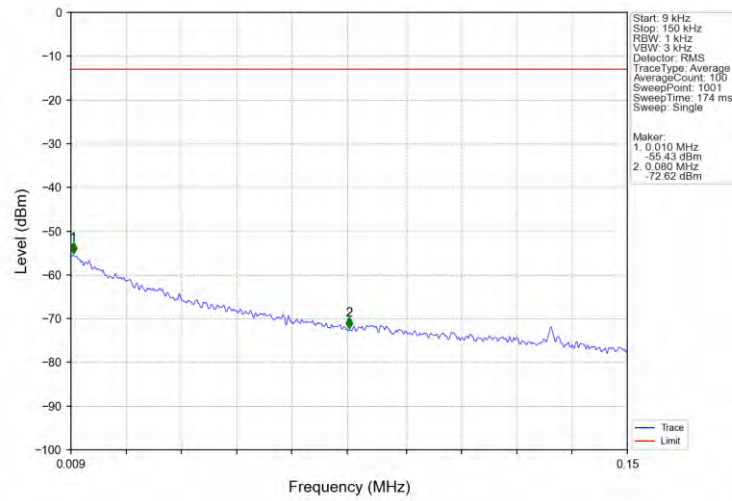


Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV

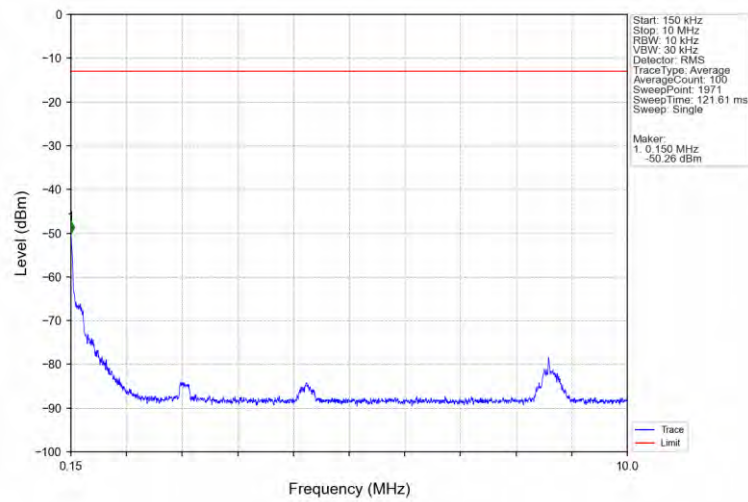


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-28.11	-13	Pass
703.9	704	0.03	/	2	703.960	-27.05	-13	Pass
704	709	0.03	/	/	/	/	/	/

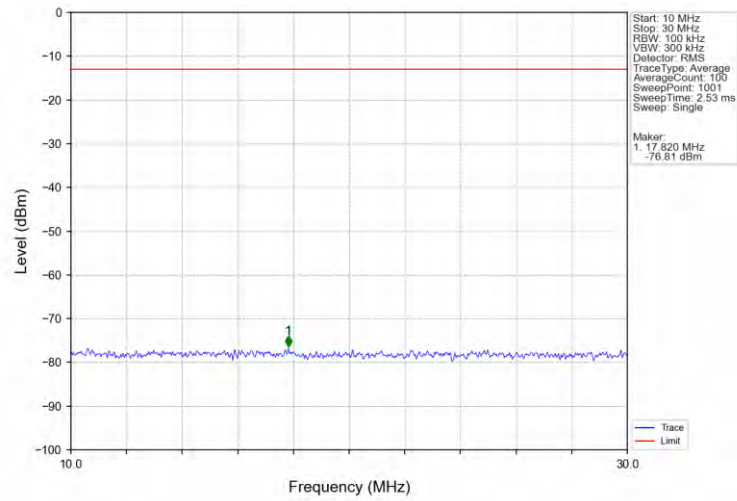
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



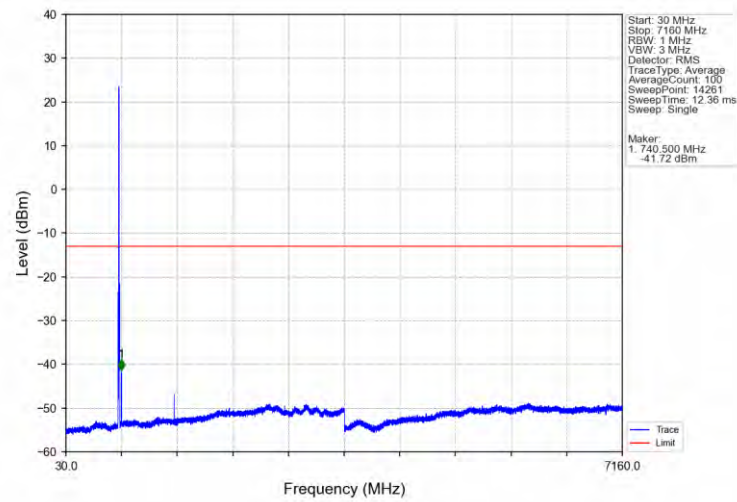
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



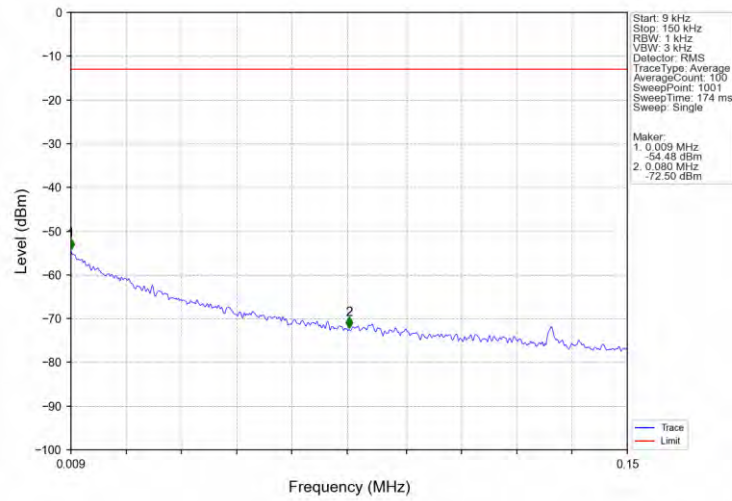
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



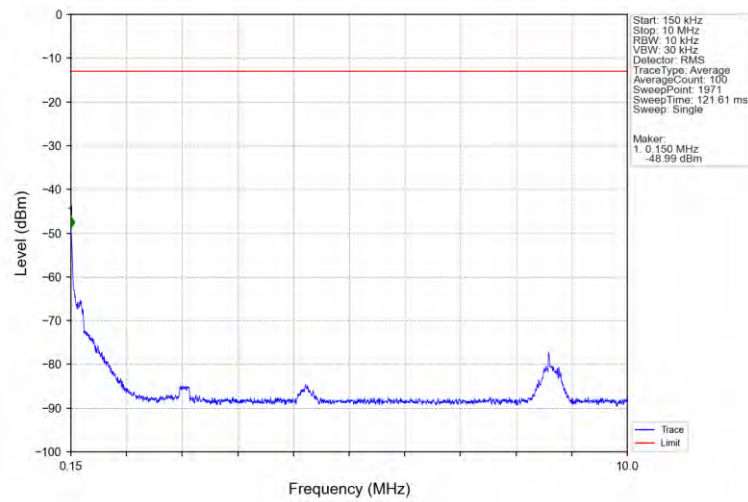
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



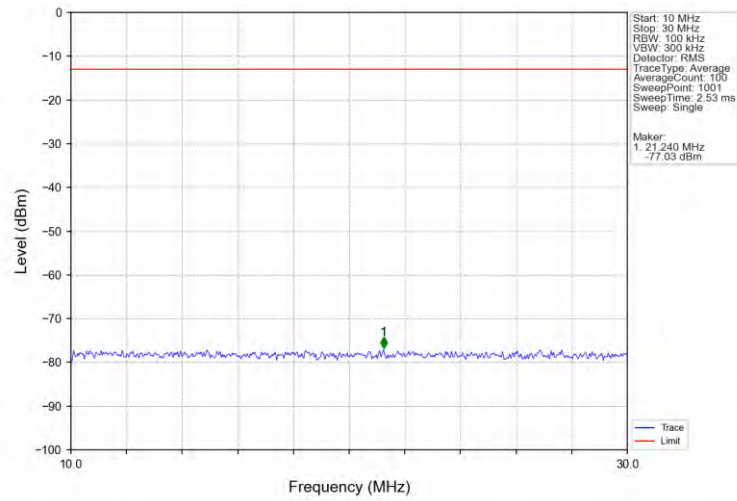
Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



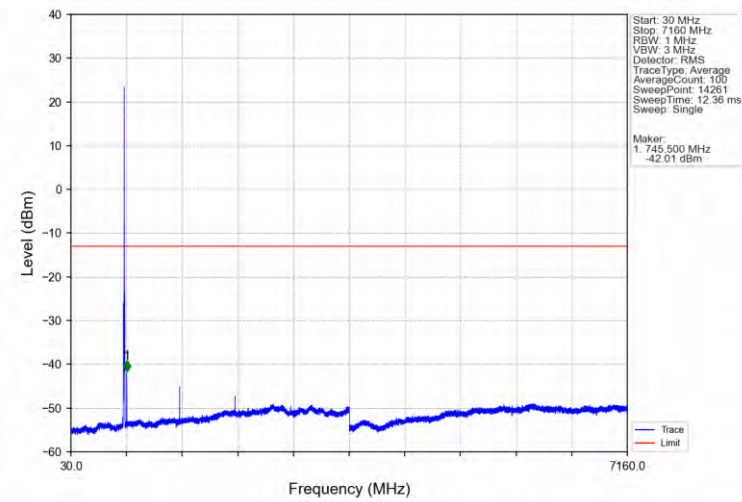
Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



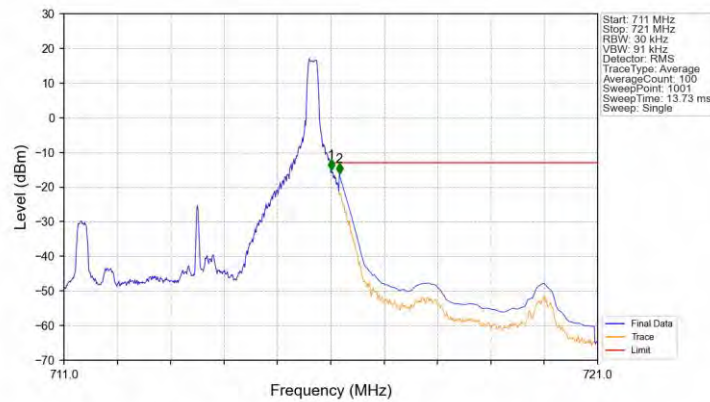
Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV



Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

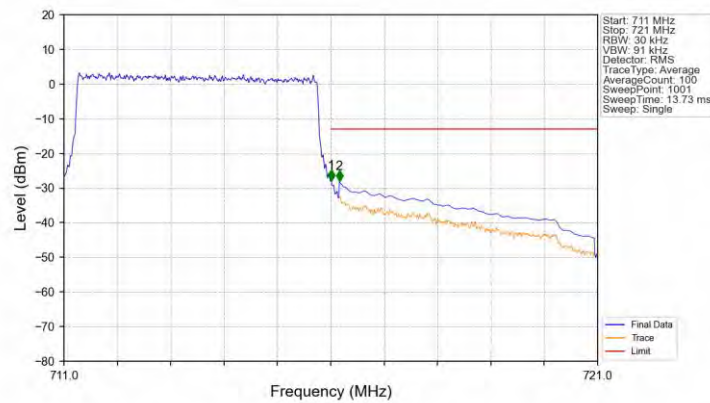


Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



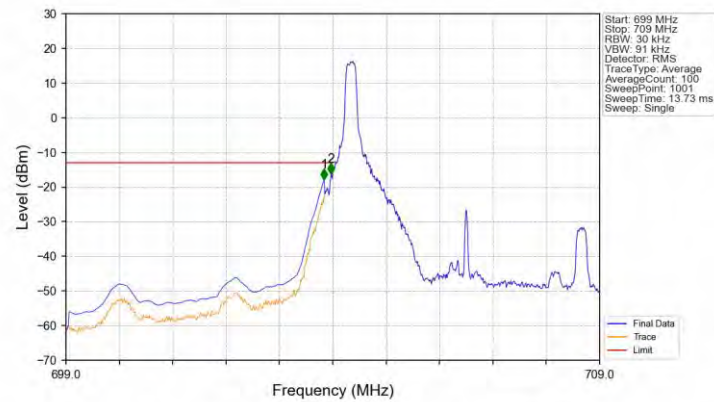
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-15.18	-13	Pass
716.1	721	0.1	CHP	2	716.160	-16.29	-13	Pass

Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



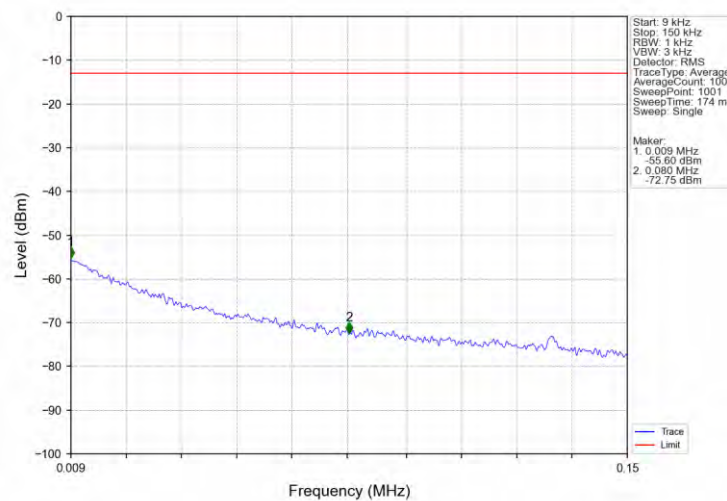
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-27.89	-13	Pass
716.1	721	0.1	CHP	2	716.160	-28.08	-13	Pass

Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV

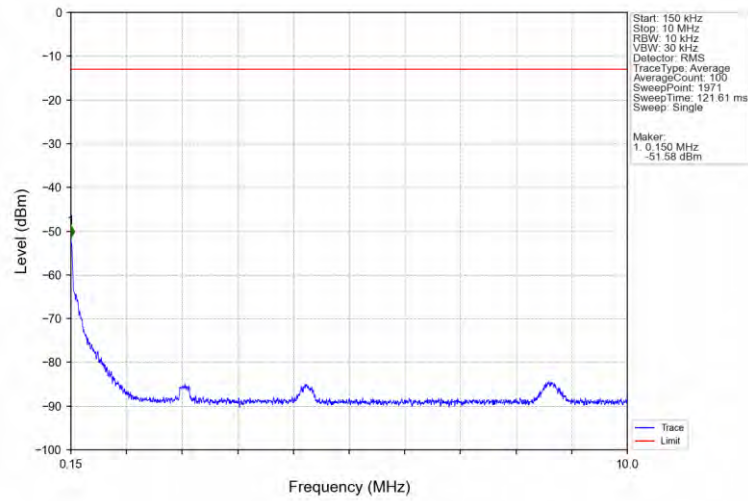


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-17.84	-13	Pass
703.9	704	0.03	/	2	703.970	-16.15	-13	Pass
704	709	0.03	/	/	/	/	/	/

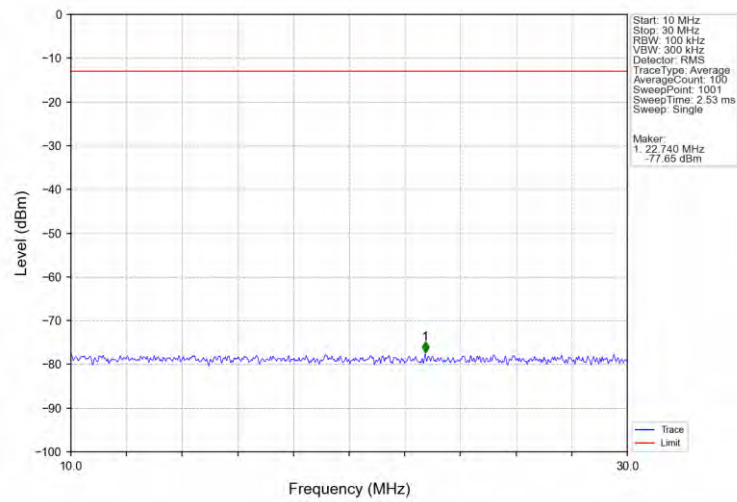
Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



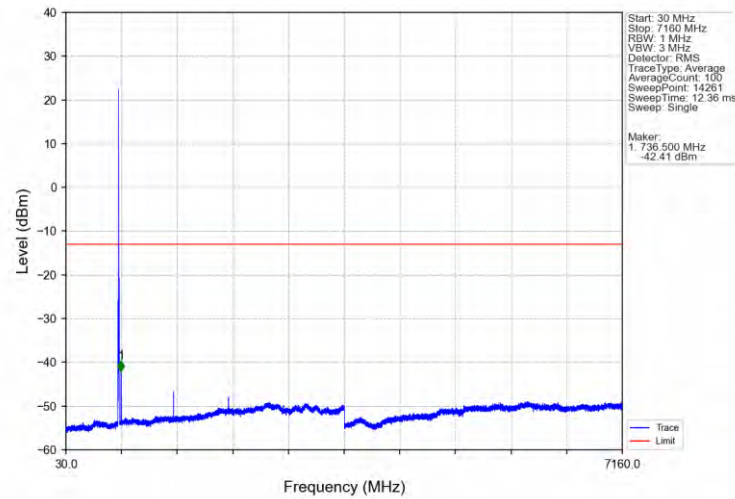
Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



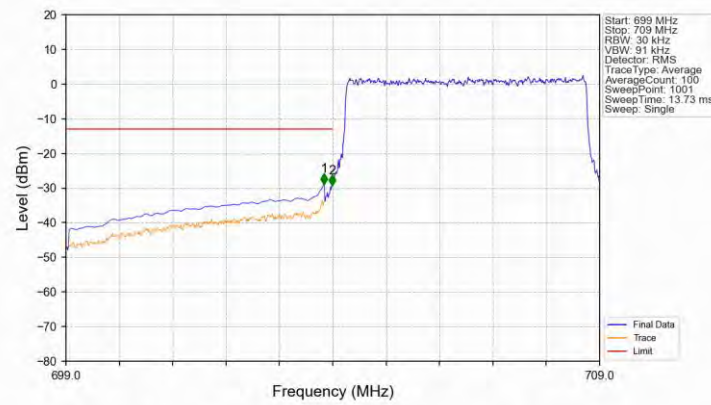
Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV

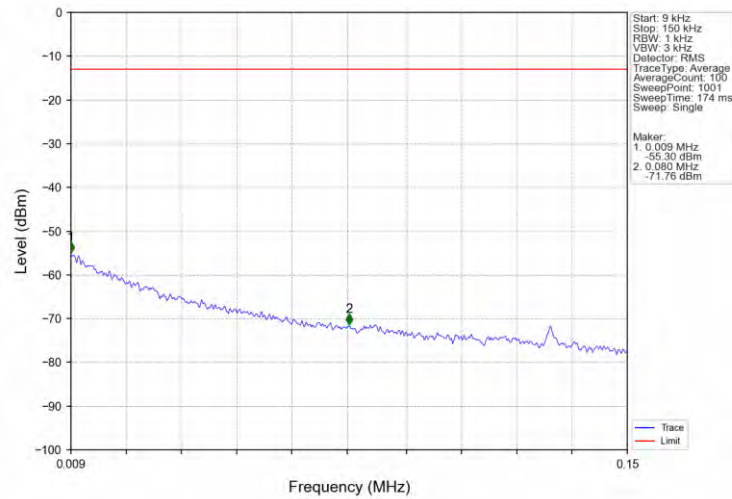


Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV

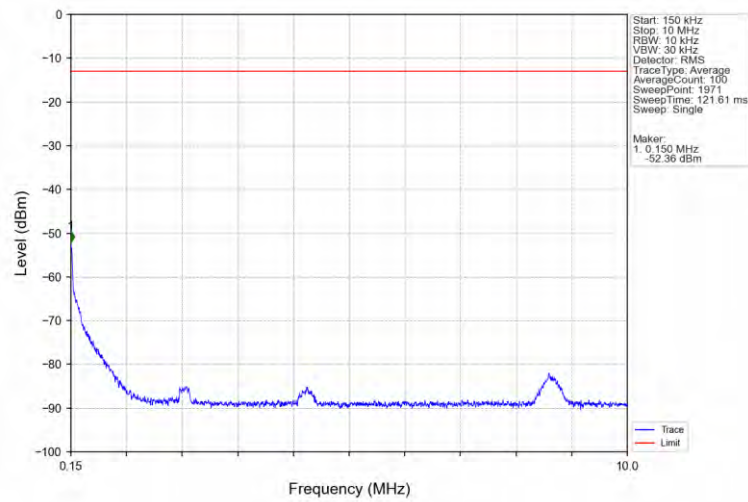


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-28.85	-13	Pass
703.9	704	0.03	/	2	703.990	-29.24	-13	Pass
704	709	0.03	/	/	/	/	/	/

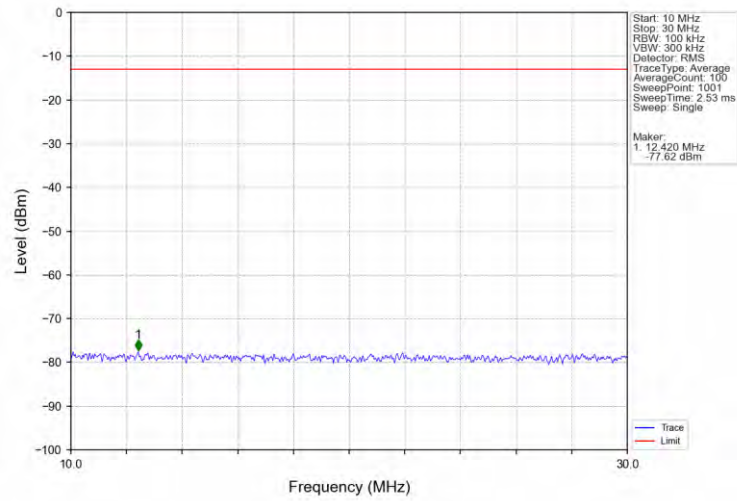
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



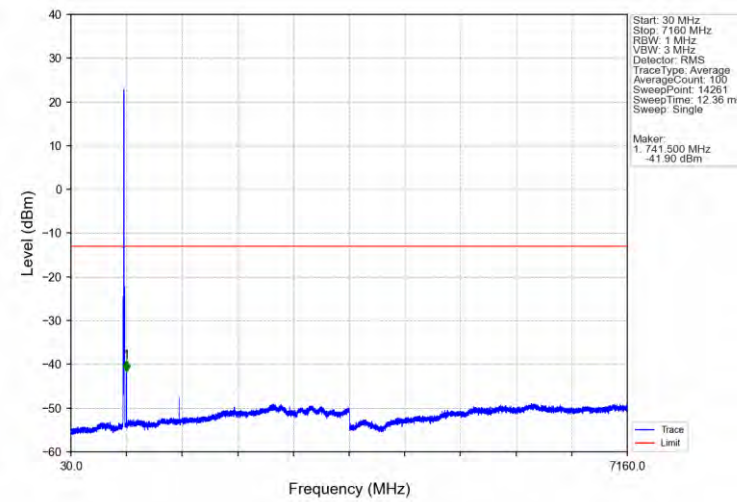
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



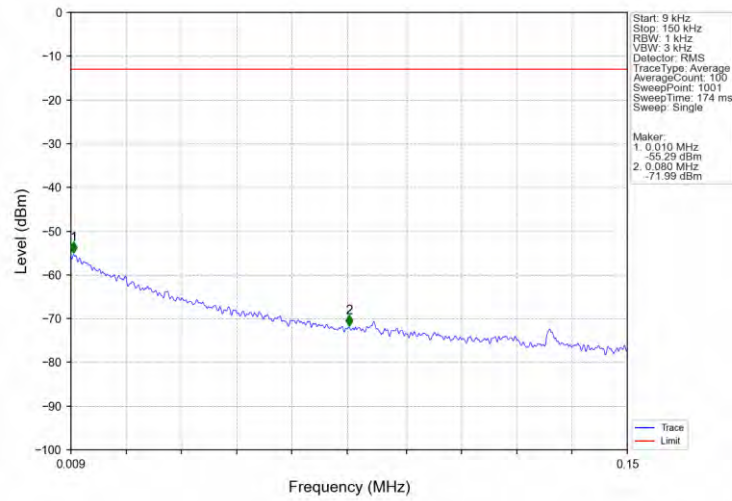
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



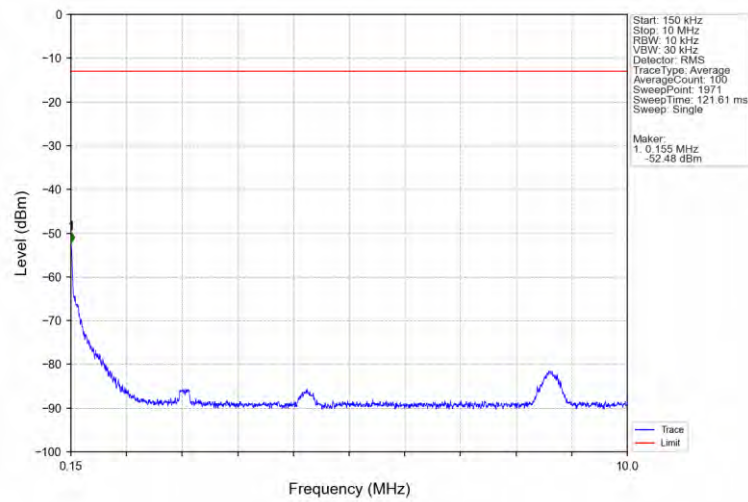
Band17_5MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



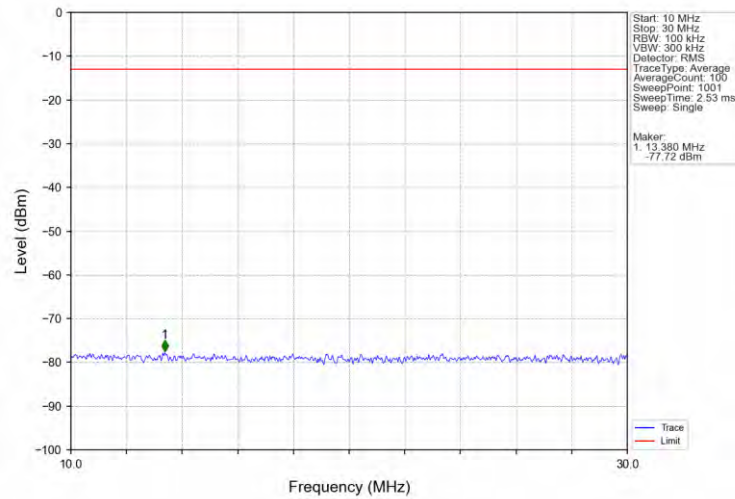
Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



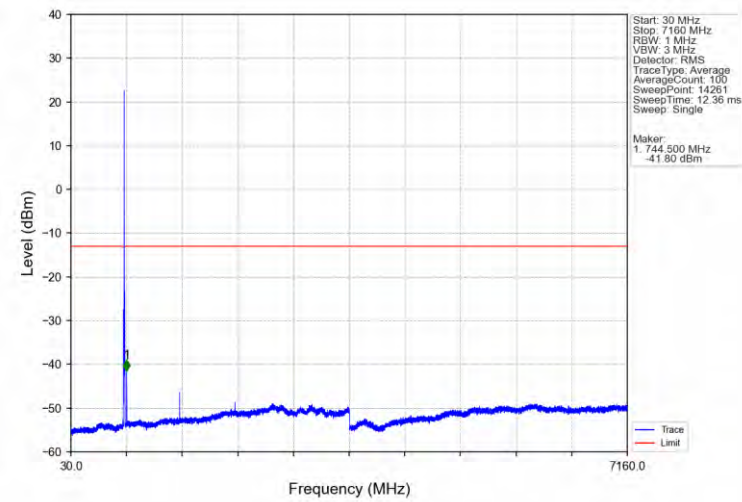
Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



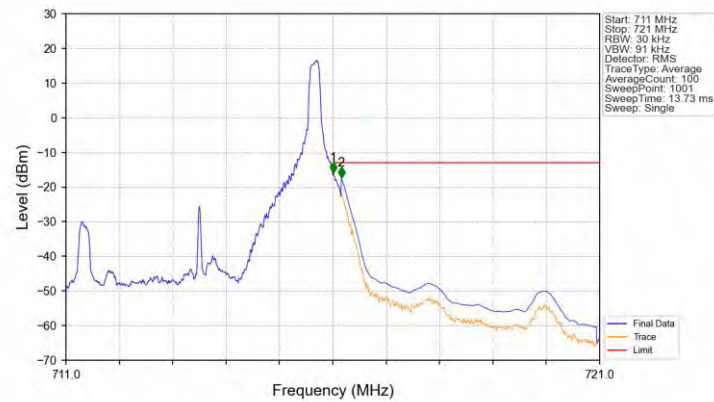
Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV



Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV

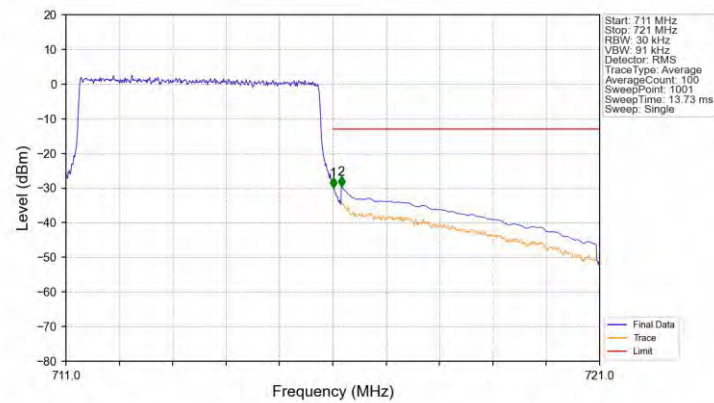


Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_24_NTNV



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	716.010	-15.92	-13	Pass
716.1	721	0.1	CHP	2	716.160	-17.30	-13	Pass

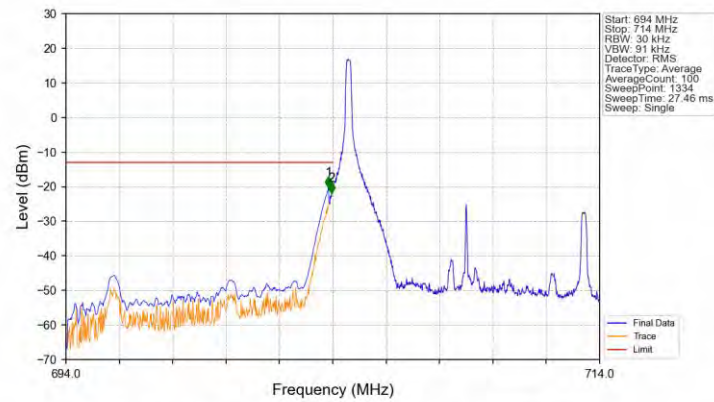
Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



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	-30.05	-13	Pass
716.1	721	0.1	CHP	2	716.160	-29.63	-13	Pass

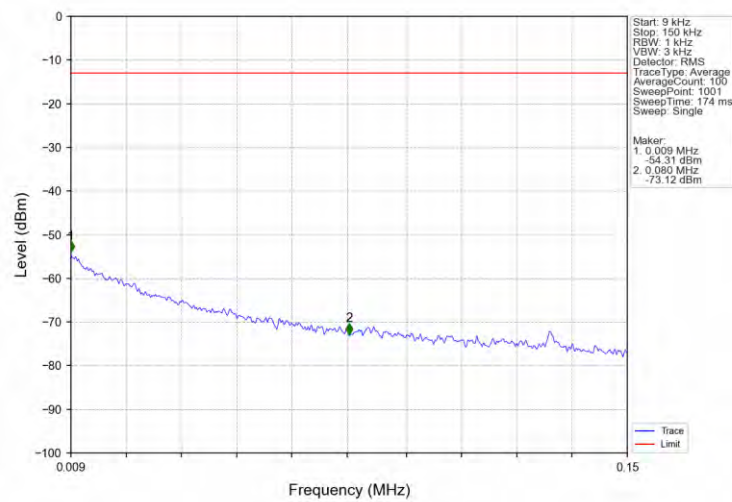
6.2.2 B17_10MHz

Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV

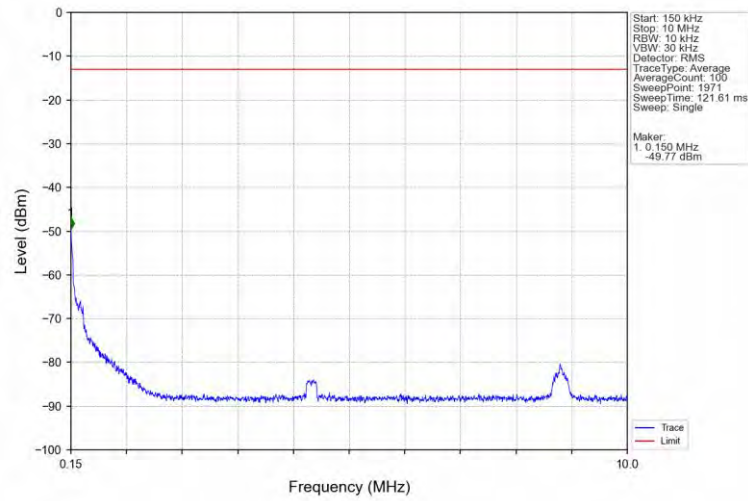


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-20.27	-13	Pass
703.9	704	0.03	/	2	703.962	-21.82	-13	Pass
704	714	0.03	/	/	/	/	/	/

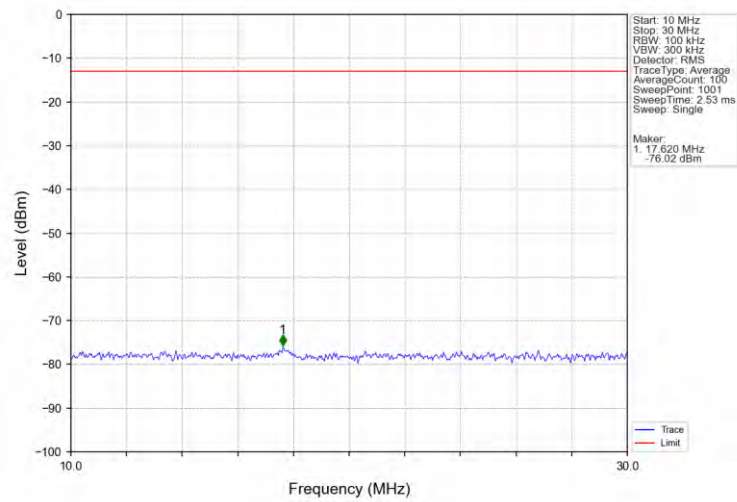
Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV



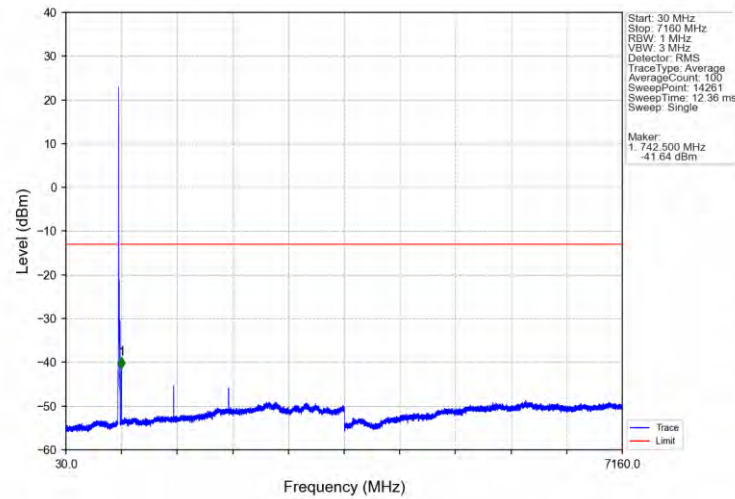
Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV



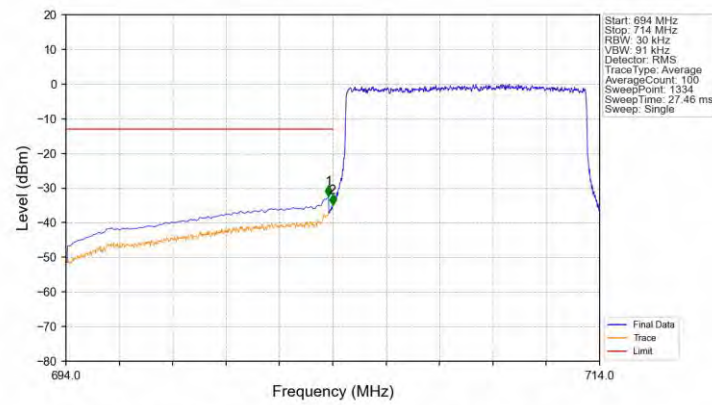
Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV



Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV

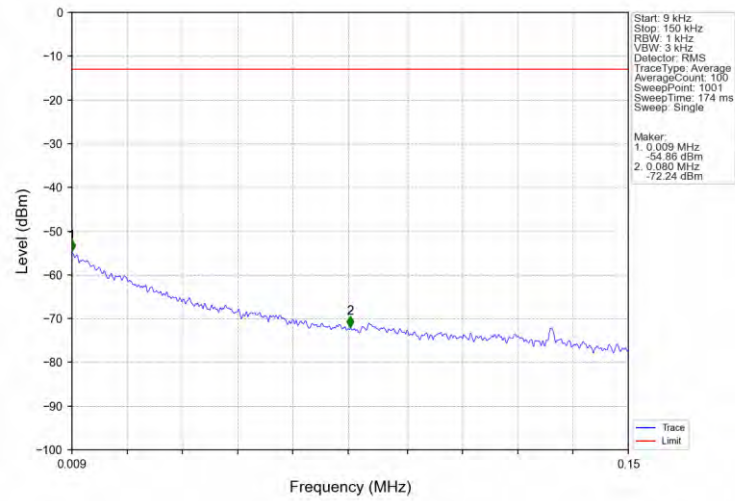


Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV

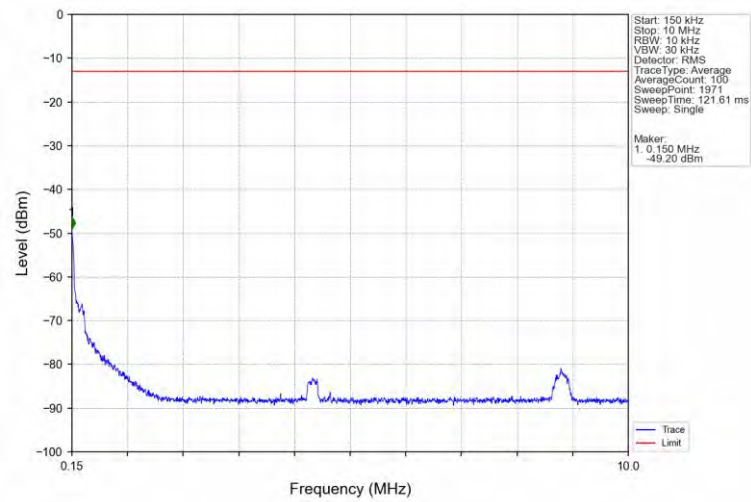


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-32.38	-13	Pass
703.9	704	0.03	/	2	703.992	-34.97	-13	Pass
704	714	0.03	/	/	/	/	/	/

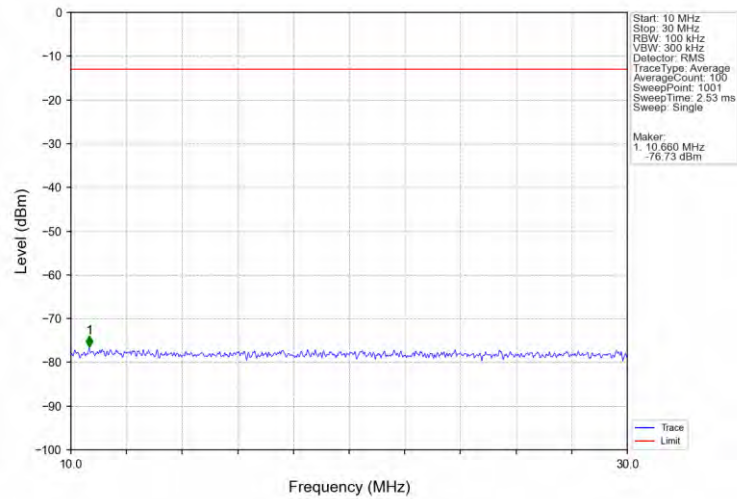
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



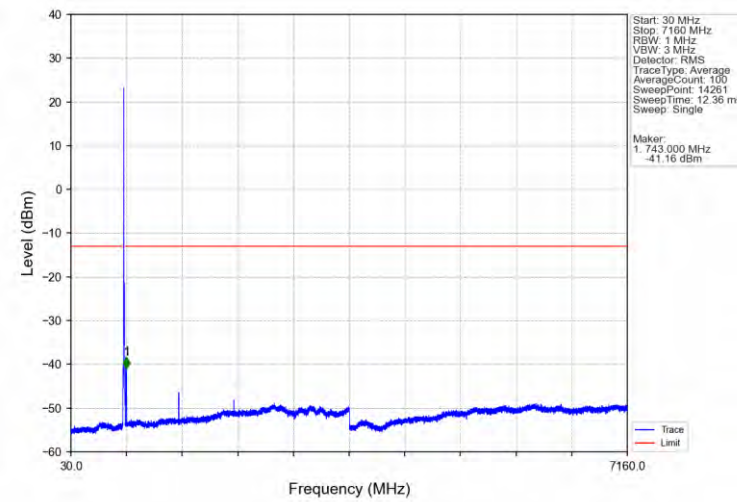
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



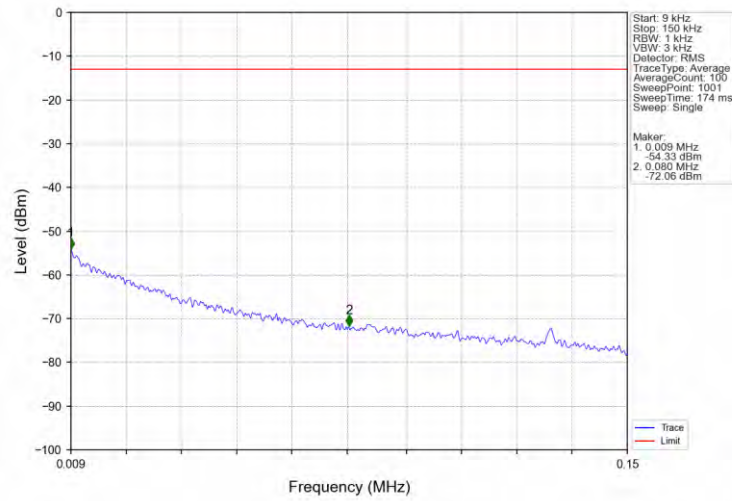
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



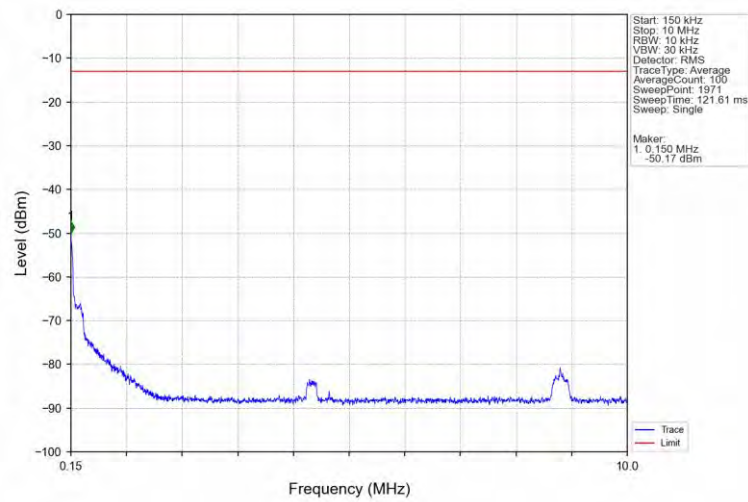
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



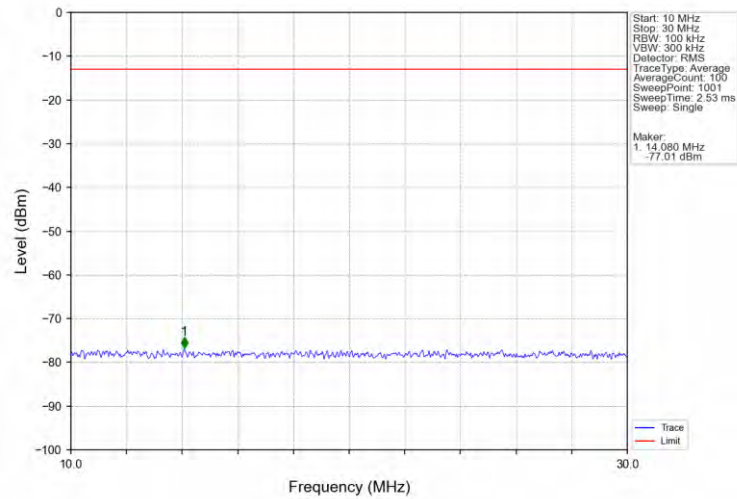
Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



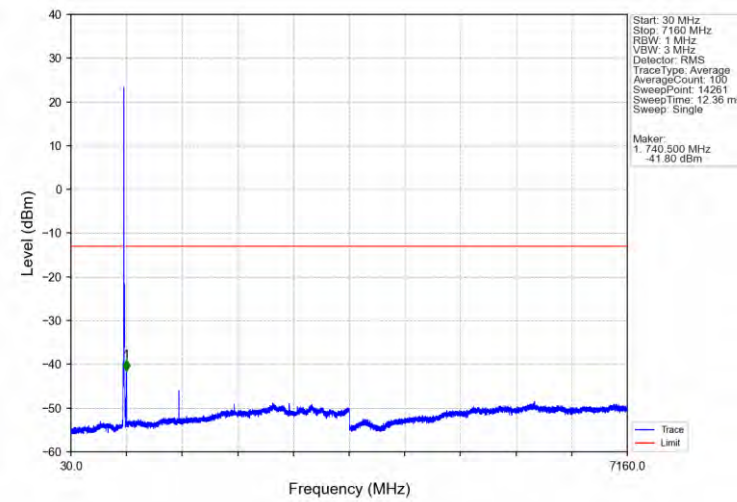
Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



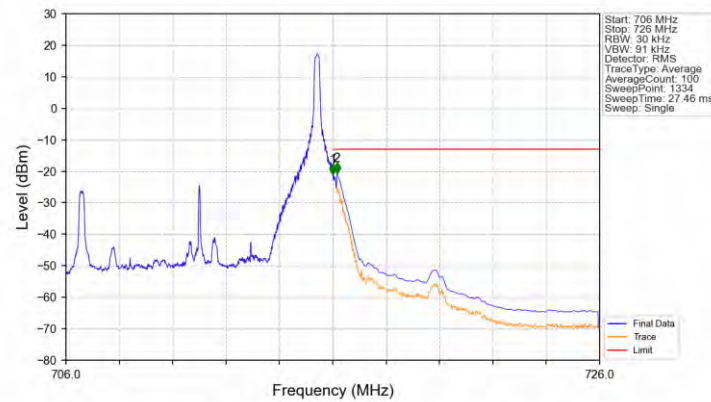
Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

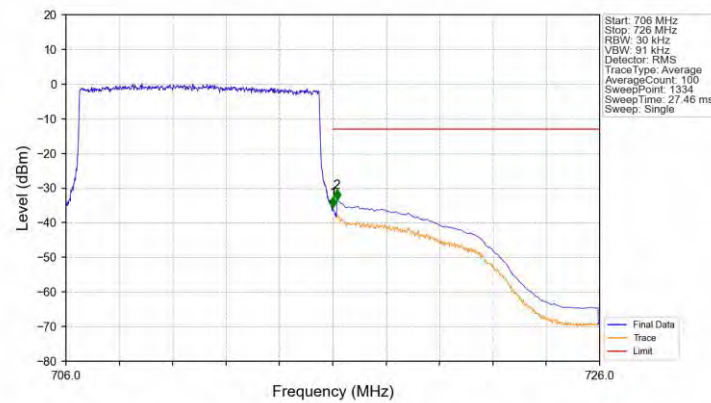


Band17_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



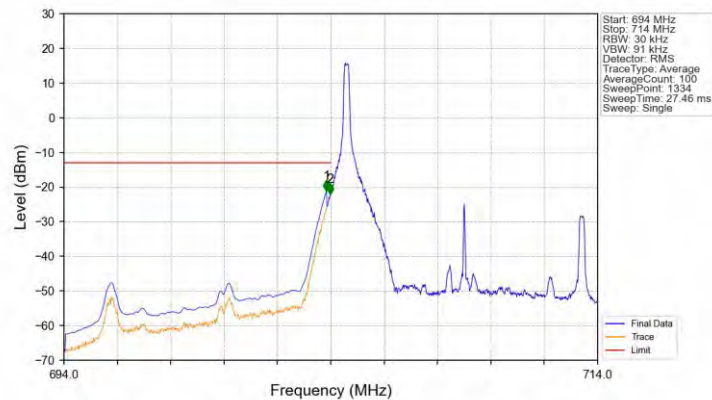
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-20.97	-13	Pass
716.1	726	0.1	CHP	2	716.158	-20.68	-13	Pass

Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



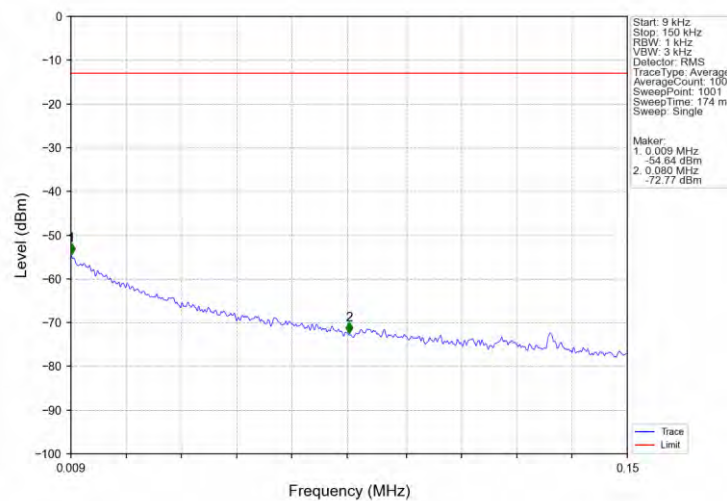
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-35.76	-13	Pass
716.1	726	0.1	CHP	2	716.158	-33.43	-13	Pass

Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV

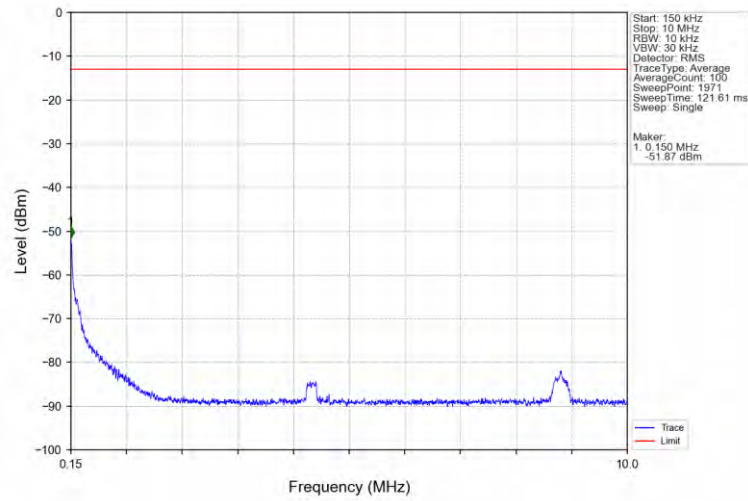


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-21.07	-13	Pass
703.9	704	0.03	/	2	703.977	-22.02	-13	Pass
704	714	0.03	/	/	/	/	/	/

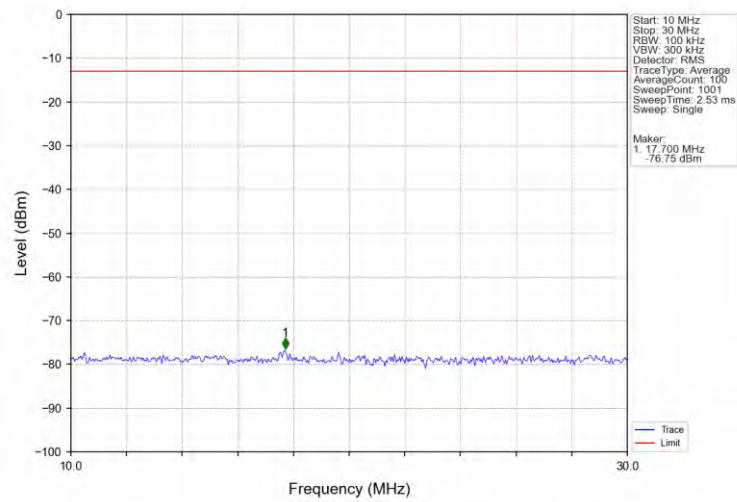
Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV



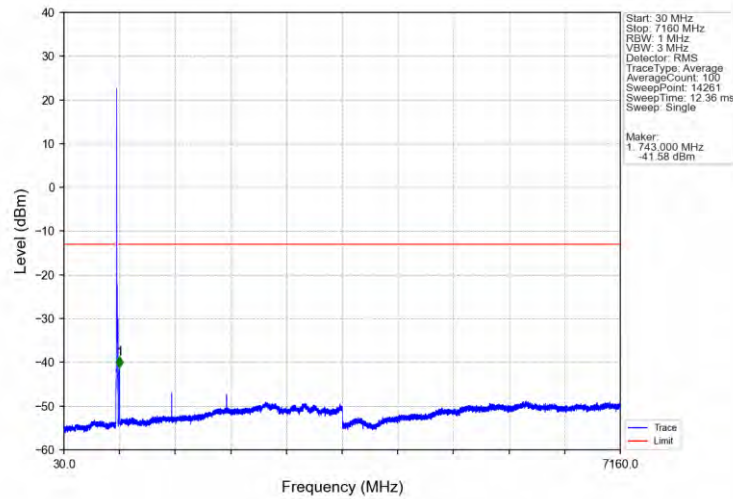
Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV



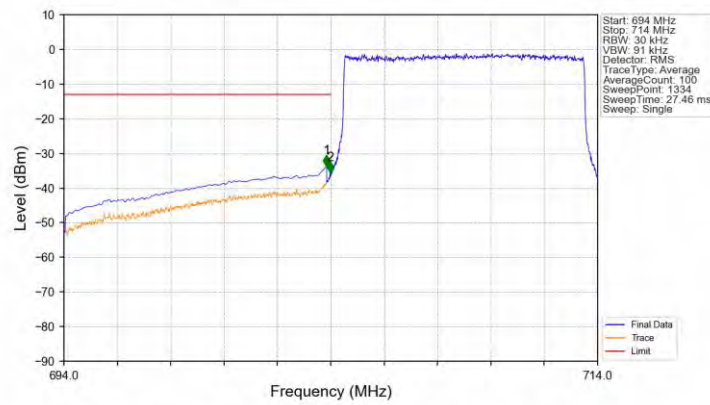
Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV



Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV

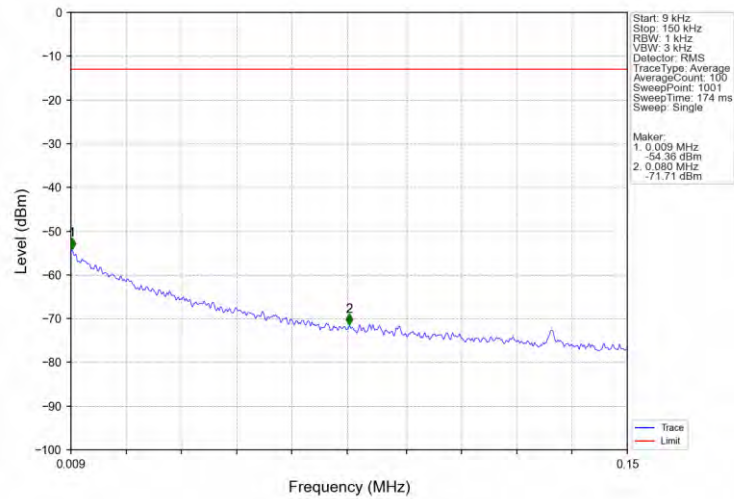


Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV

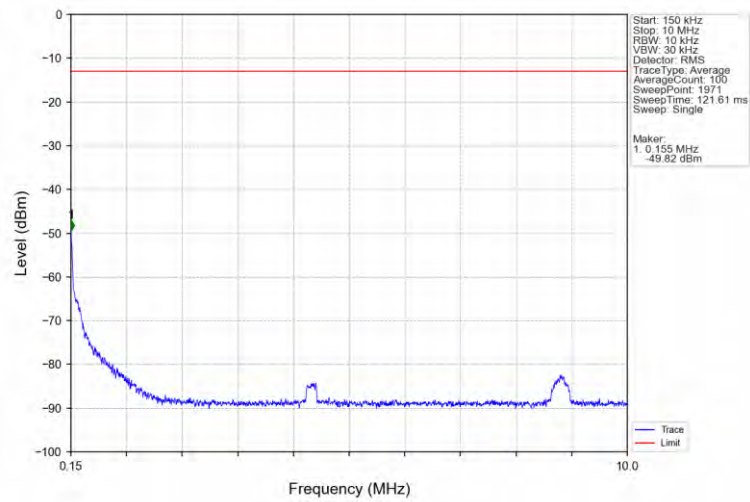


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-33.57	-13	Pass
703.9	704	0.03	/	2	703.977	-35.54	-13	Pass
704	714	0.03	/	/	/	/	/	/

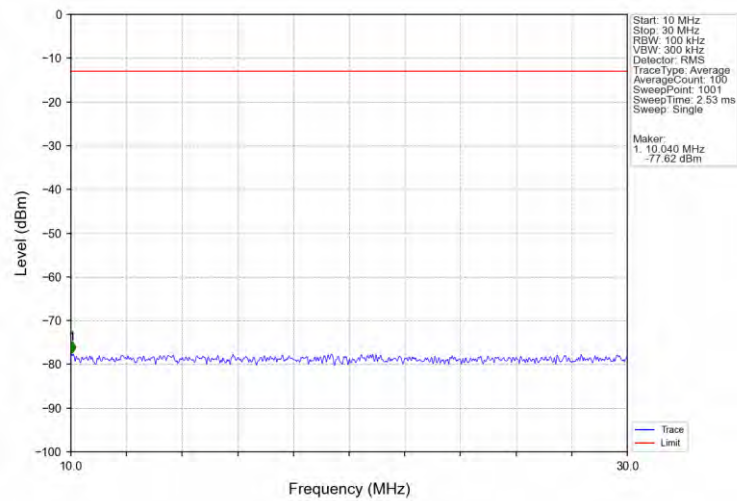
Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



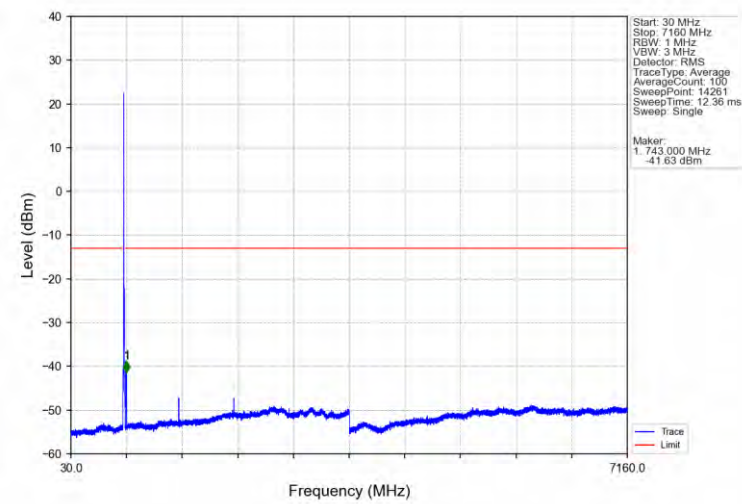
Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



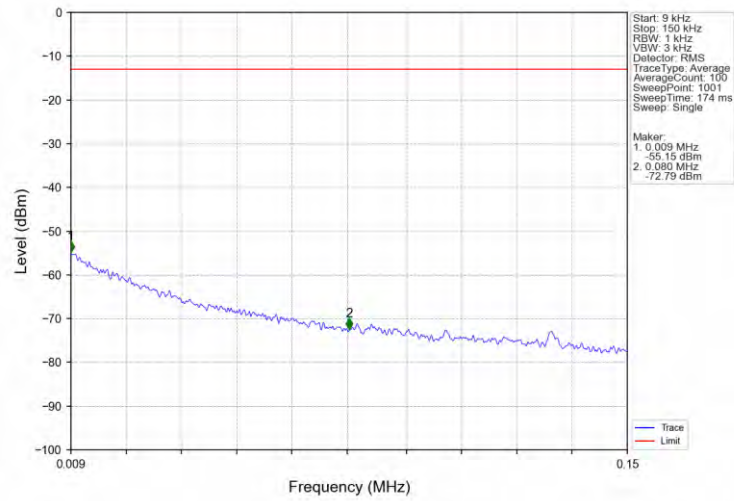
Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



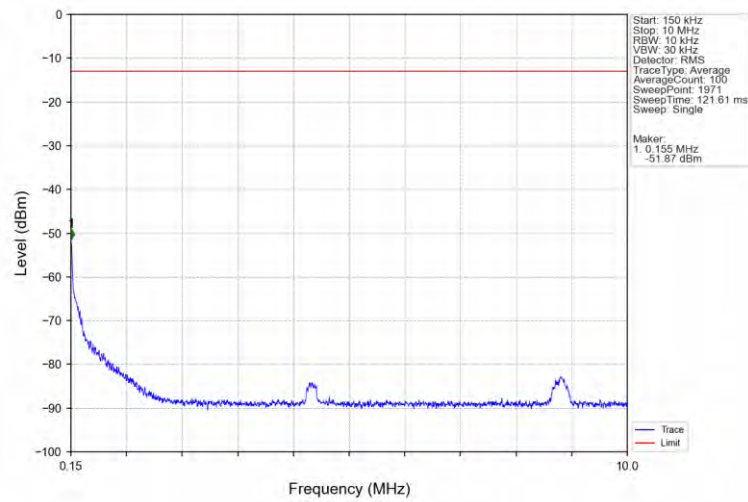
Band17_10MHz_16QAM_MCH_710MHz_RB_1_0_NTNV



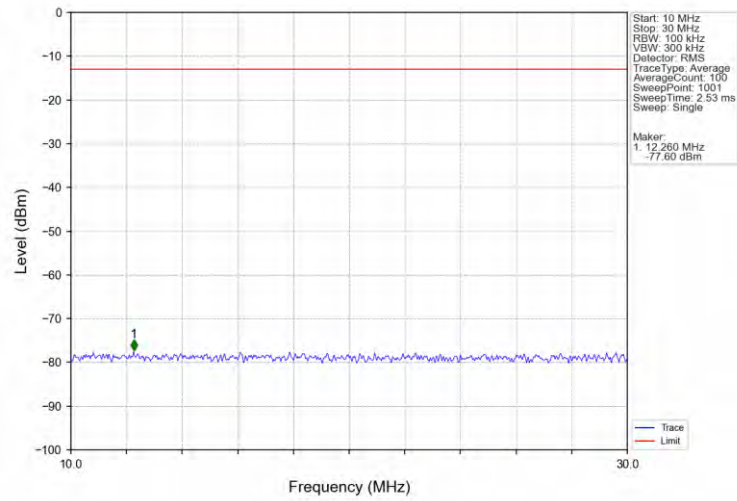
Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



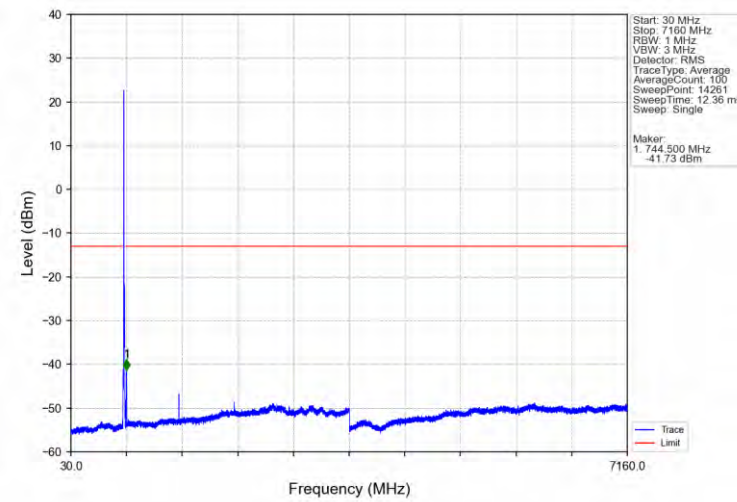
Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



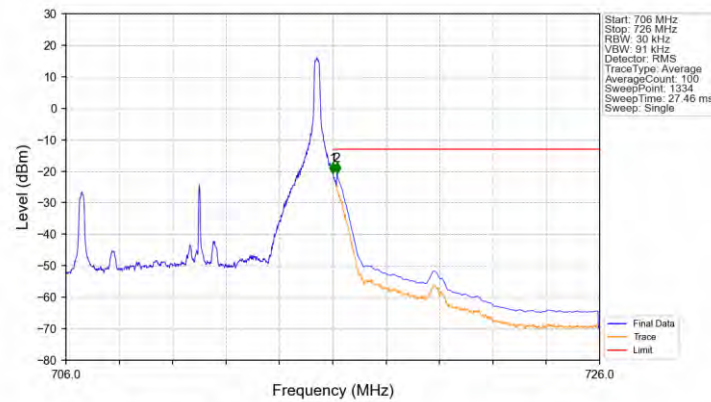
Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV



Band17_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV

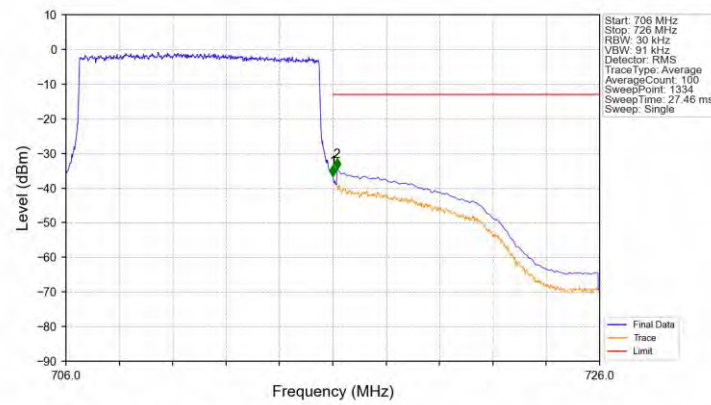


Band17_10MHz_16QAM_HCH_711MHz_RB_1_49_NTNV



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	-20.55	-13	Pass
716.1	726	0.1	CHP	2	716.158	-20.65	-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	-36.52	-13	Pass
716.1	726	0.1	CHP	2	716.158	-34.57	-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	0.2716	0.0139	ppm	4M59G7D	27H	24.34
17	5	706.5	713.5	0.2234	0.0135	ppm	4M61W7D	27H	23.49
17	10	709	711	0.2871	0.0139	ppm	9M08G7D	27H	24.58
17	10	709	711	0.2432	0.0134	ppm	9M06W7D	27H	23.86

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	0.0931	0.0139	ppm	4M59G7D	27H	19.69
17	5	706.5	713.5	0.0766	0.0135	ppm	4M61W7D	27H	18.84
17	10	709	711	0.0984	0.0139	ppm	9M08G7D	27H	19.93
17	10	709	711	0.0834	0.0134	ppm	9M06W7D	27H	19.21