

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	24.06	-1.23	20.68	<=34.77	Pass
			13	24.07	-1.23	20.69	<=34.77	Pass
			24	24.00	-1.23	20.62	<=34.77	Pass
		12	0	23.17	-1.23	19.79	<=34.77	Pass
			6	23.14	-1.23	19.76	<=34.77	Pass
			13	23.00	-1.23	19.62	<=34.77	Pass
		25	0	23.01	-1.23	19.63	<=34.77	Pass
	710	1	0	23.71	-1.23	20.33	<=34.77	Pass
			13	23.95	-1.23	20.57	<=34.77	Pass
			24	23.75	-1.23	20.37	<=34.77	Pass
		12	0	23.03	-1.23	19.65	<=34.77	Pass
			6	23.10	-1.23	19.72	<=34.77	Pass
			13	23.04	-1.23	19.66	<=34.77	Pass
		25	0	23.10	-1.23	19.72	<=34.77	Pass
	713.5	1	0	23.76	-1.23	20.38	<=34.77	Pass
			13	23.55	-1.23	20.17	<=34.77	Pass
			24	23.77	-1.23	20.39	<=34.77	Pass
		12	0	22.98	-1.23	19.60	<=34.77	Pass
			6	23.01	-1.23	19.63	<=34.77	Pass
			13	22.97	-1.23	19.59	<=34.77	Pass
		25	0	22.92	-1.23	19.54	<=34.77	Pass
16QAM	706.5	1	0	22.95	-1.23	19.57	<=34.77	Pass
			13	23.21	-1.23	19.83	<=34.77	Pass
			24	22.86	-1.23	19.48	<=34.77	Pass
		12	0	21.93	-1.23	18.55	<=34.77	Pass
			6	22.19	-1.23	18.81	<=34.77	Pass
			13	21.78	-1.23	18.40	<=34.77	Pass
		25	0	21.81	-1.23	18.43	<=34.77	Pass
	710	1	0	23.44	-1.23	20.06	<=34.77	Pass
			13	23.79	-1.23	20.41	<=34.77	Pass
			24	23.81	-1.23	20.43	<=34.77	Pass
		12	0	21.76	-1.23	18.38	<=34.77	Pass
			6	21.87	-1.23	18.49	<=34.77	Pass
			13	21.89	-1.23	18.51	<=34.77	Pass
		25	0	22.00	-1.23	18.62	<=34.77	Pass
	713.5	1	0	22.84	-1.23	19.46	<=34.77	Pass
			13	22.78	-1.23	19.40	<=34.77	Pass
			24	23.19	-1.23	19.81	<=34.77	Pass
		12	0	21.73	-1.23	18.35	<=34.77	Pass
			6	21.98	-1.23	18.60	<=34.77	Pass
			13	21.91	-1.23	18.53	<=34.77	Pass
		25	0	21.95	-1.23	18.57	<=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	24.24	-1.23	20.86	<=34.77	Pass
			25	24.03	-1.23	20.65	<=34.77	Pass
			49	24.02	-1.23	20.64	<=34.77	Pass
		25	0	23.14	-1.23	19.76	<=34.77	Pass
			13	23.14	-1.23	19.76	<=34.77	Pass
			25	23.12	-1.23	19.74	<=34.77	Pass
		50	0	23.08	-1.23	19.70	<=34.77	Pass
	710	1	0	24.01	-1.23	20.63	<=34.77	Pass
			25	23.93	-1.23	20.55	<=34.77	Pass
			49	23.81	-1.23	20.43	<=34.77	Pass
		25	0	23.01	-1.23	19.63	<=34.77	Pass
			13	23.03	-1.23	19.65	<=34.77	Pass
			25	23.01	-1.23	19.63	<=34.77	Pass
		50	0	23.07	-1.23	19.69	<=34.77	Pass
	711	1	0	23.89	-1.23	20.51	<=34.77	Pass
			25	23.89	-1.23	20.51	<=34.77	Pass
			49	23.93	-1.23	20.55	<=34.77	Pass
		25	0	22.97	-1.23	19.59	<=34.77	Pass
			13	22.98	-1.23	19.60	<=34.77	Pass
			25	23.12	-1.23	19.74	<=34.77	Pass
		50	0	23.01	-1.23	19.63	<=34.77	Pass
16QAM	709	1	0	23.83	-1.23	20.45	<=34.77	Pass
			25	23.48	-1.23	20.10	<=34.77	Pass
			49	23.41	-1.23	20.03	<=34.77	Pass
		25	0	21.95	-1.23	18.57	<=34.77	Pass
			13	22.21	-1.23	18.83	<=34.77	Pass
			25	21.90	-1.23	18.52	<=34.77	Pass
		50	0	22.21	-1.23	18.83	<=34.77	Pass
	710	1	0	23.57	-1.23	20.19	<=34.77	Pass
			25	23.43	-1.23	20.05	<=34.77	Pass
			49	23.13	-1.23	19.75	<=34.77	Pass
		25	0	21.92	-1.23	18.54	<=34.77	Pass
			13	21.95	-1.23	18.57	<=34.77	Pass
			25	22.00	-1.23	18.62	<=34.77	Pass
		50	0	21.96	-1.23	18.58	<=34.77	Pass
	711	1	0	23.05	-1.23	19.67	<=34.77	Pass
			25	23.37	-1.23	19.99	<=34.77	Pass
			49	23.29	-1.23	19.91	<=34.77	Pass
		25	0	22.02	-1.23	18.64	<=34.77	Pass
			13	22.07	-1.23	18.69	<=34.77	Pass
			25	21.96	-1.23	18.58	<=34.77	Pass
		50	0	22.09	-1.23	18.71	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result

2.1.1 B17_10MHz

Band: 17 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	710	50	0	20	LV	1.717	0.0024	-2.5 to 2.5	Pass
					NV	-0.329	-0.0005	-2.5 to 2.5	Pass
					HV	1.888	0.0027	-2.5 to 2.5	Pass
				-30	NV	1.073	0.0015	-2.5 to 2.5	Pass
				-20	NV	1.316	0.0019	-2.5 to 2.5	Pass
				-10	NV	1.702	0.0024	-2.5 to 2.5	Pass
				0	NV	1.073	0.0015	-2.5 to 2.5	Pass
				10	NV	0.300	0.0004	-2.5 to 2.5	Pass
				30	NV	0.629	0.0009	-2.5 to 2.5	Pass
				40	NV	1.345	0.0019	-2.5 to 2.5	Pass
				50	NV	0.672	0.0009	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band17_OBW

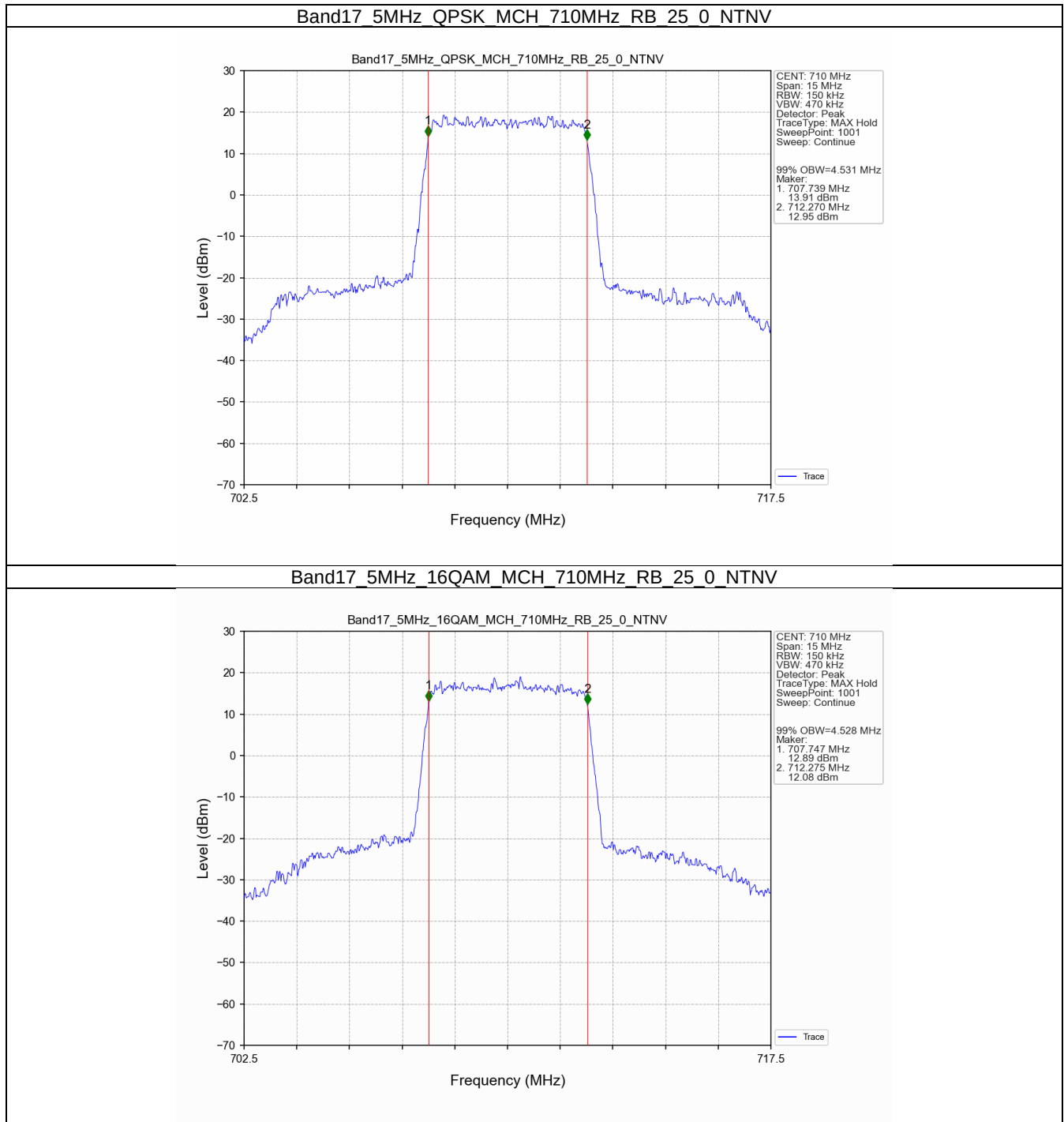
Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	710	25	0	4.531	/	Pass
	16QAM	710	25	0	4.528	/	Pass
10	QPSK	710	50	0	9.079	/	Pass
	16QAM	710	50	0	9.052	/	Pass

3.1.2 Band17_XDB

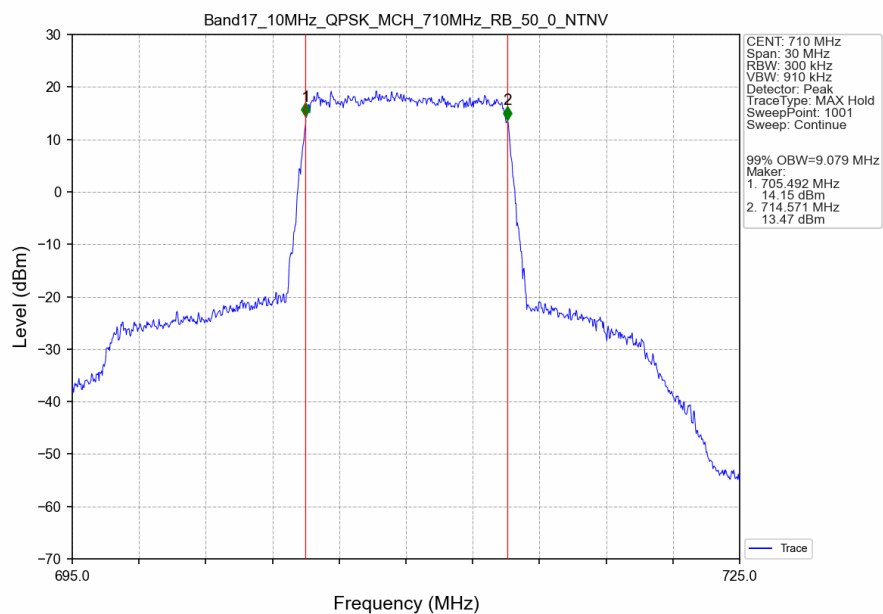
Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	710	25	0	5.062	/	Pass
	16QAM	710	25	0	5.023	/	Pass
10	QPSK	710	50	0	10.039	/	Pass
	16QAM	710	50	0	10.020	/	Pass

3.2 Test Graph

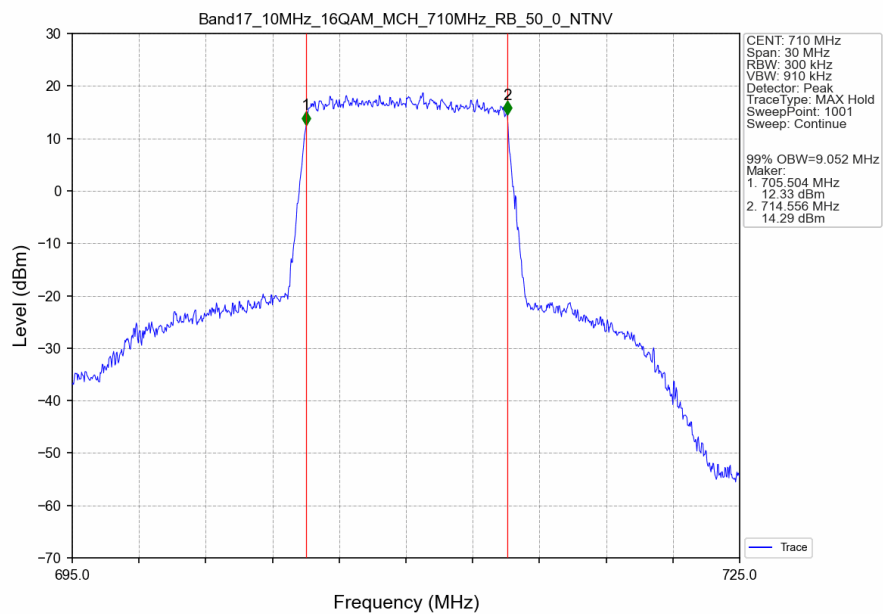
3.2.1 Band17_OBW



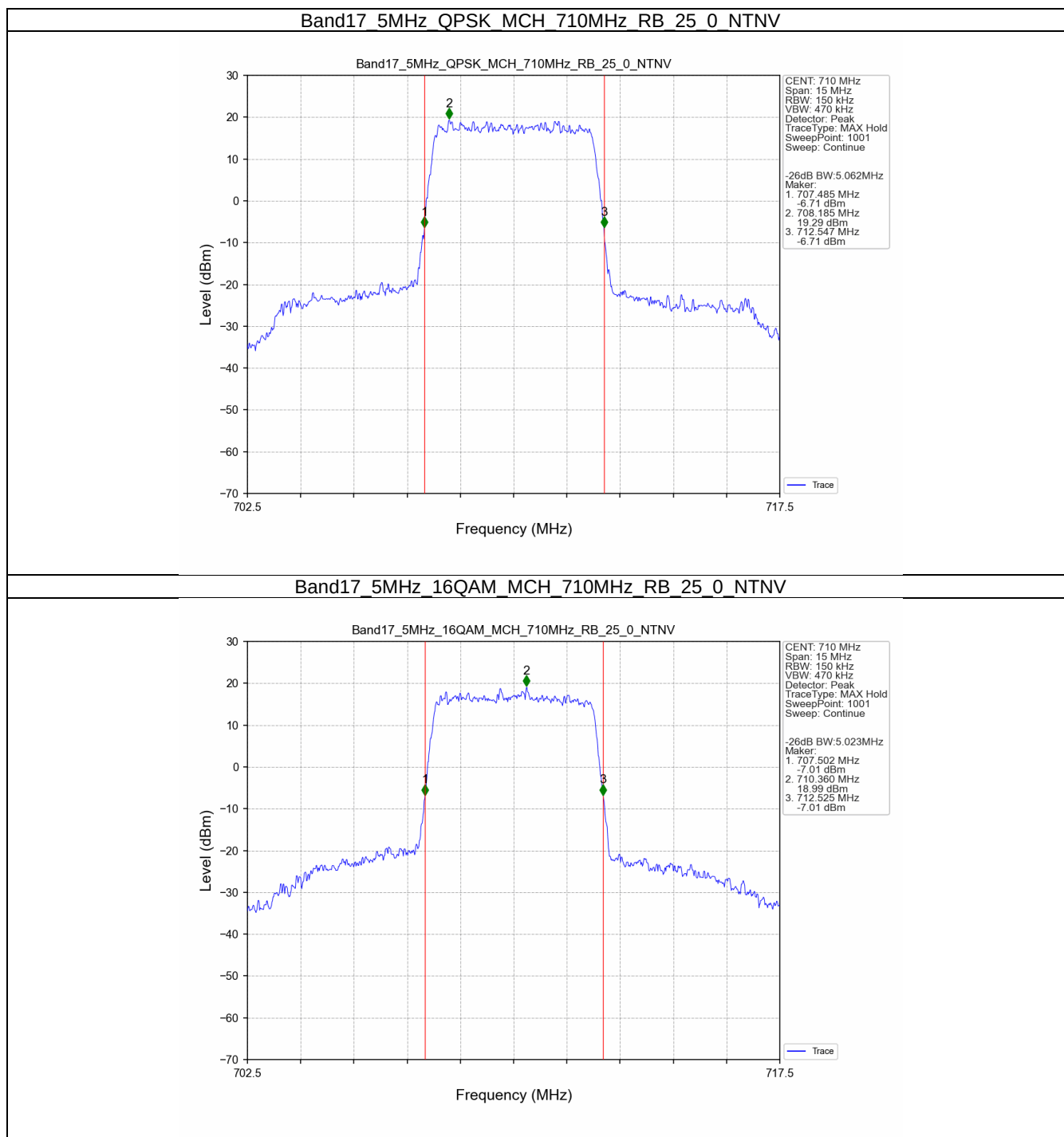
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



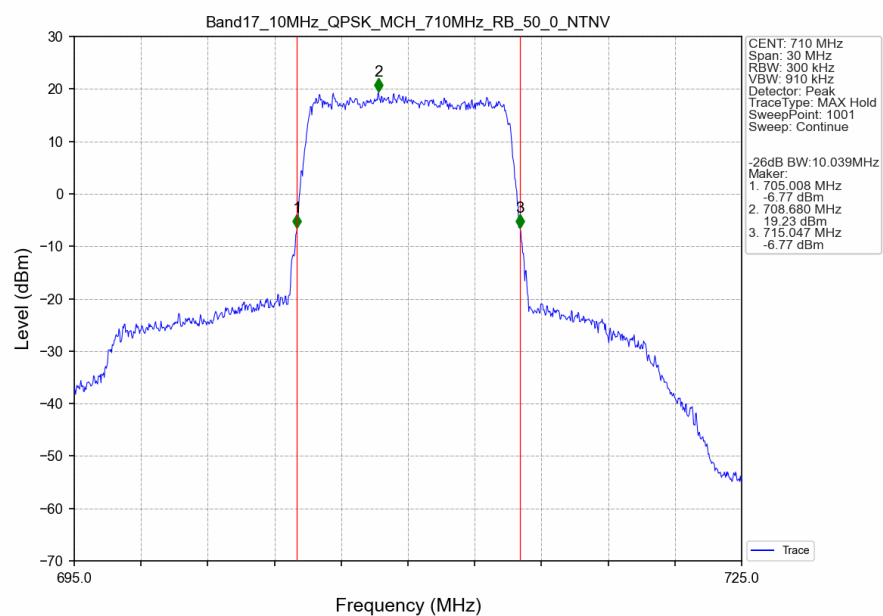
Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



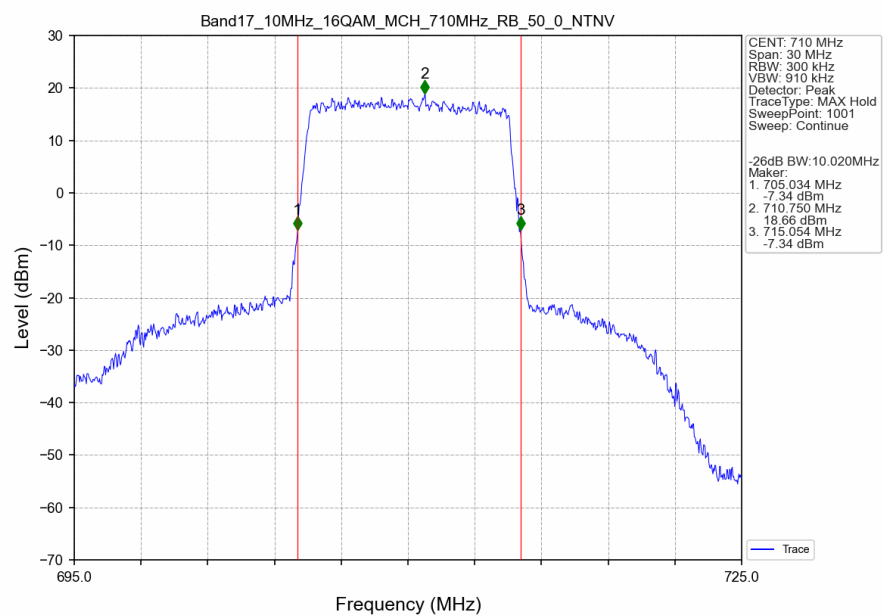
3.2.2 Band17_XDB



Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV





4. Peak-Average Ratio

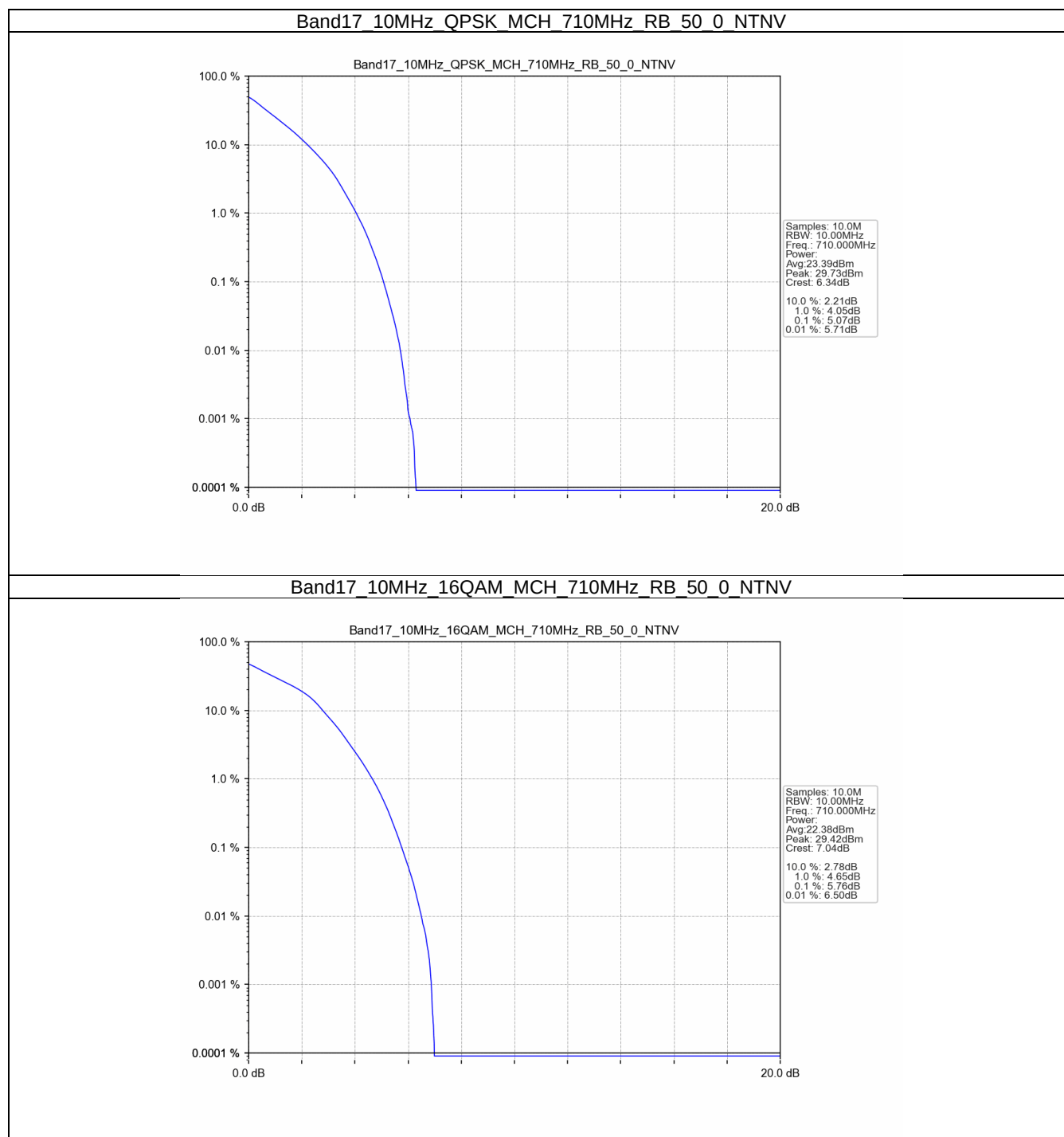
4.1 Test Result

4.1.1 B17_10MHz

Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	710	50	0	5.07	<=13	Pass
16QAM	710	50	0	5.76	<=13	Pass

4.2 Test Graph

4.2.1 B17_10MHz



5. Spurious Emission

5.1 Test Result

5.1.1 B17_5MHz

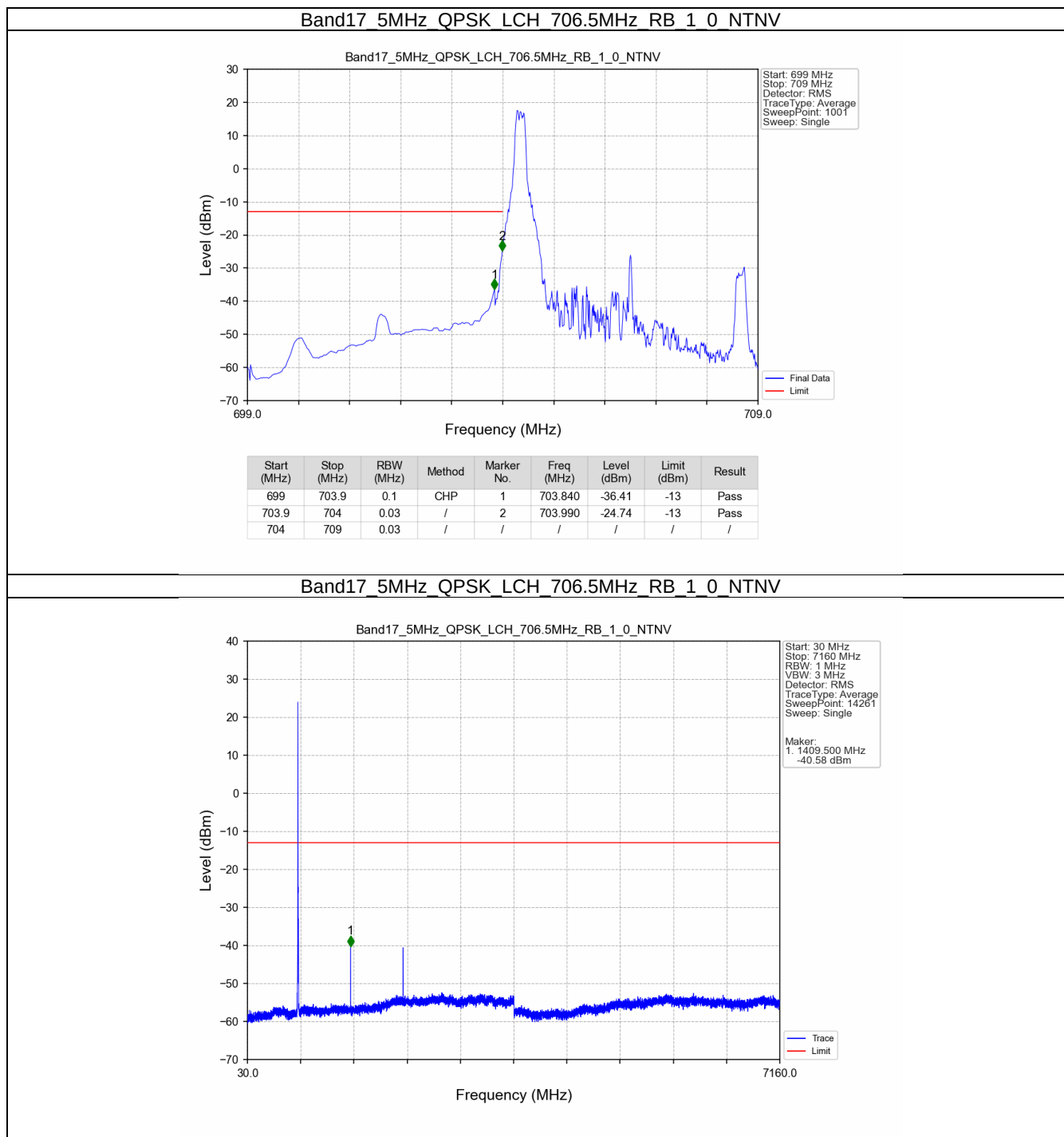
Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test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

5.1.2 B17_10MHz

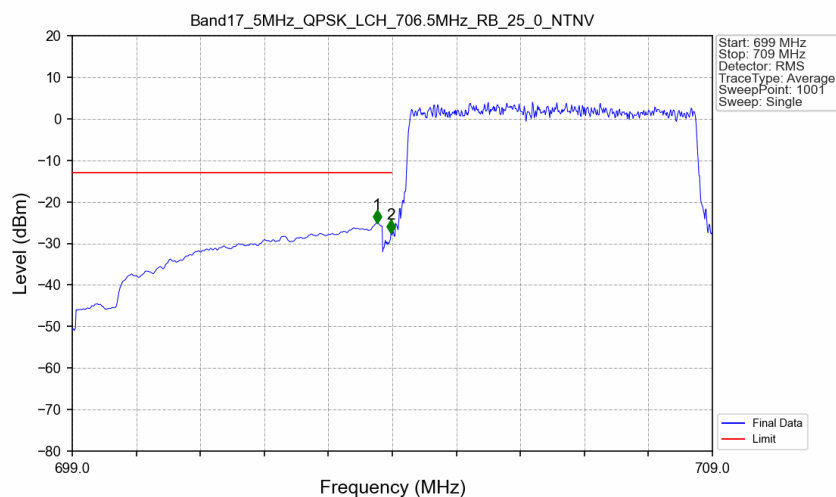
Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	709	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph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

5.2 Test Graph

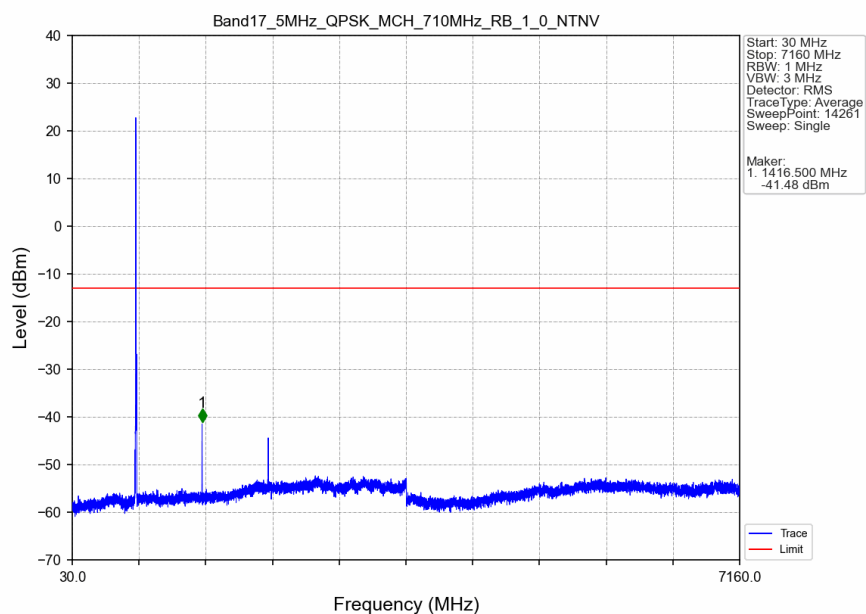
5.2.1 B17_5MHz



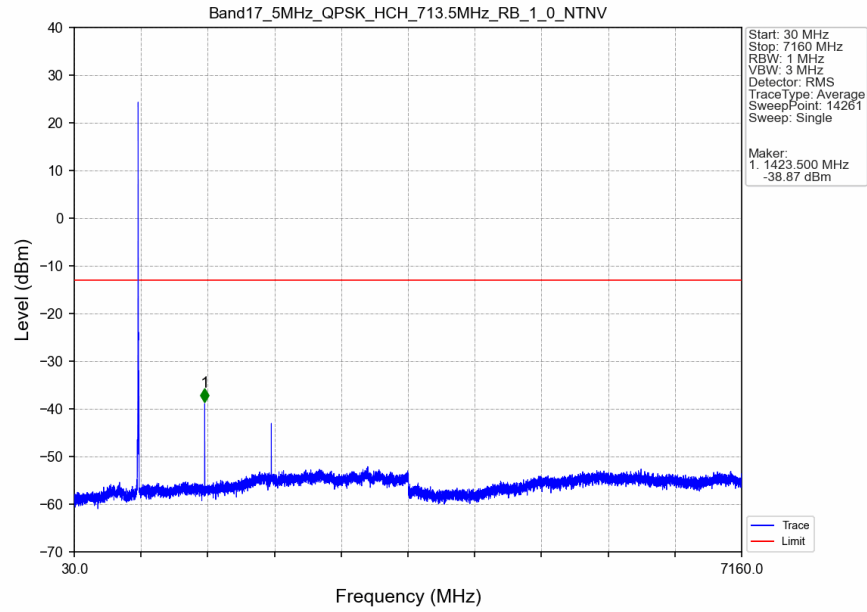
Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV



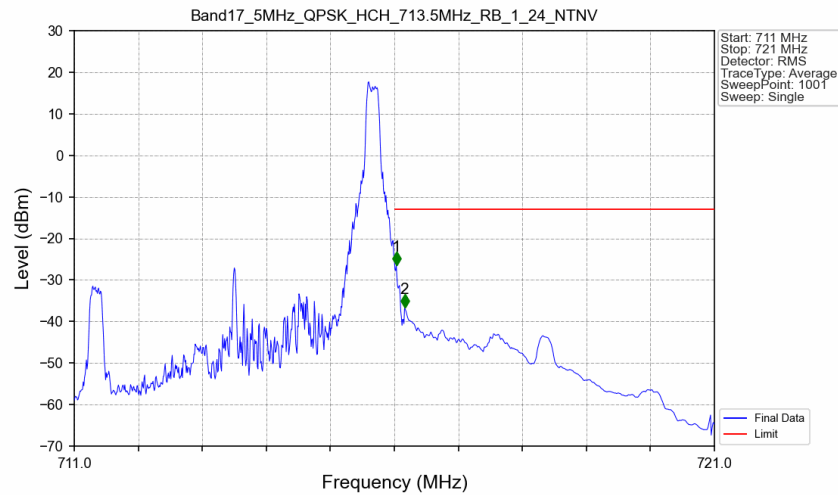
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

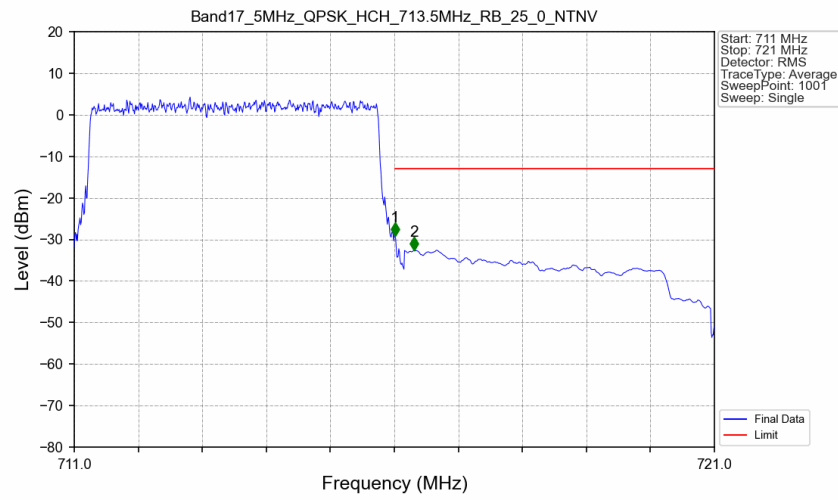


Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



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	716.030	-26.42	-13	Pass
716.1	721	0.1	CHP	2	716.160	-36.64	-13	Pass

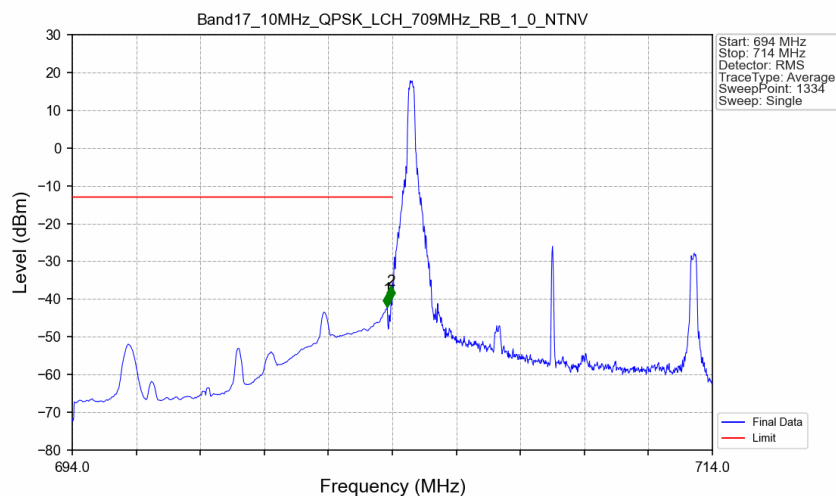
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



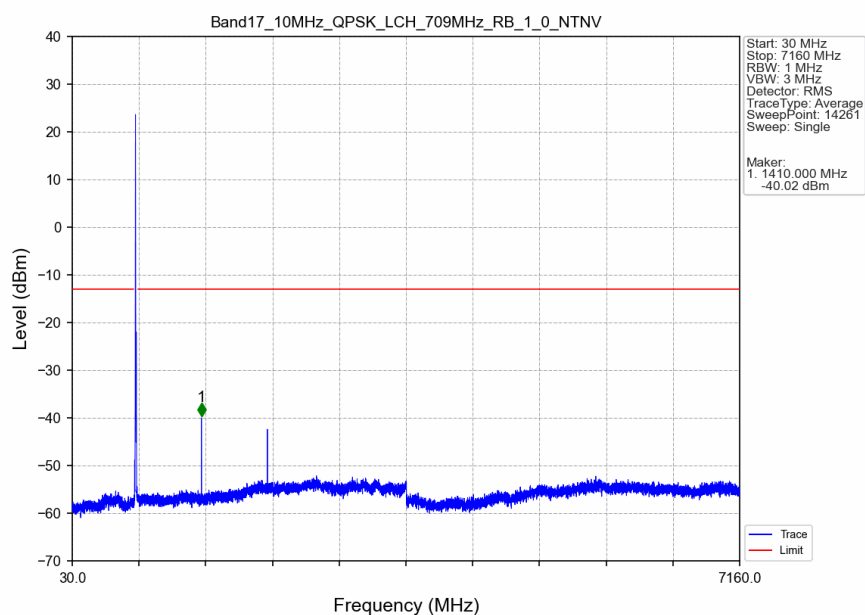
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-29.21	-13	Pass
716.1	721	0.1	CHP	2	716.310	-32.58	-13	Pass

5.2.2 B17_10MHz

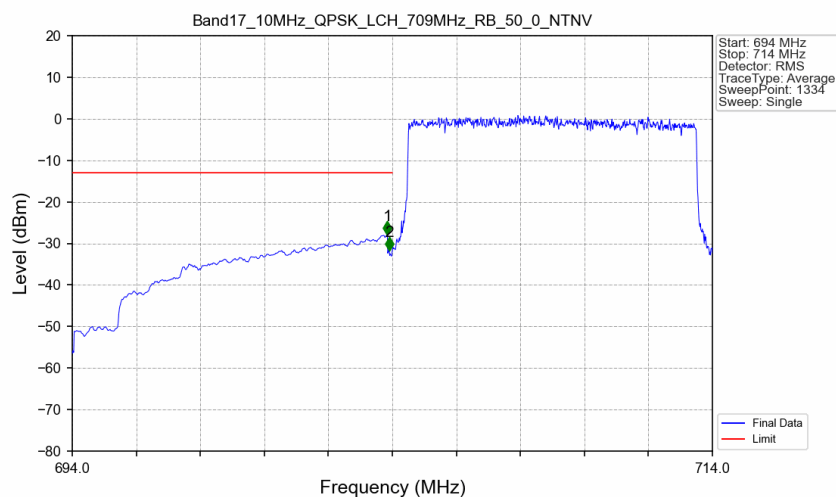
Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV



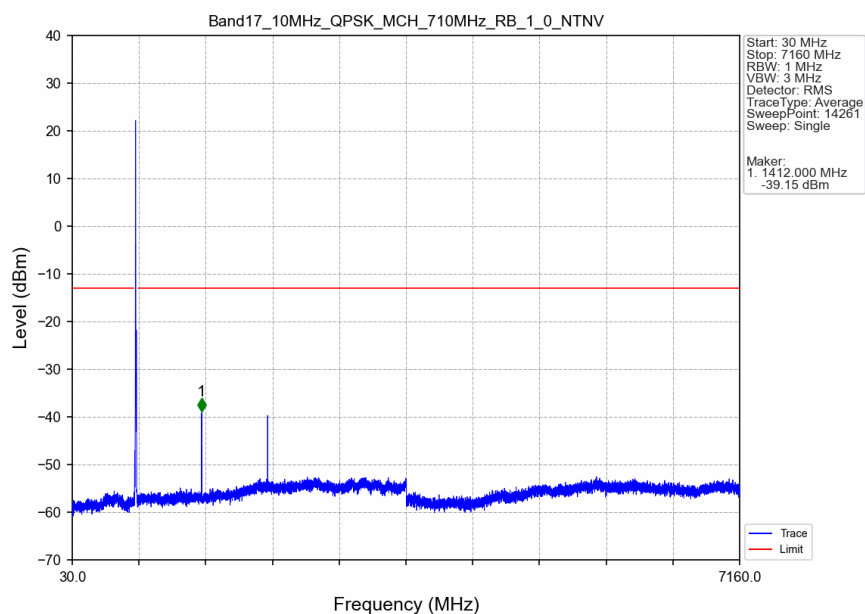
Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV



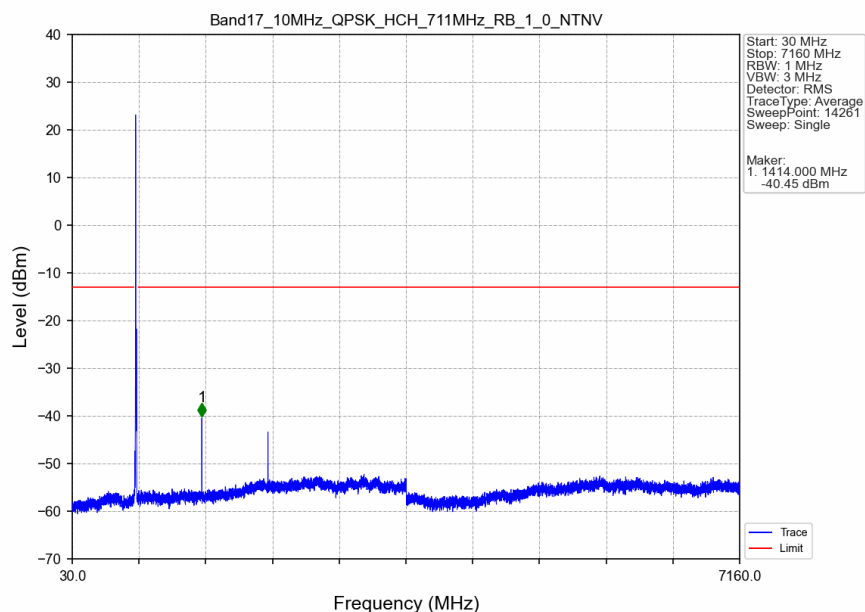
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



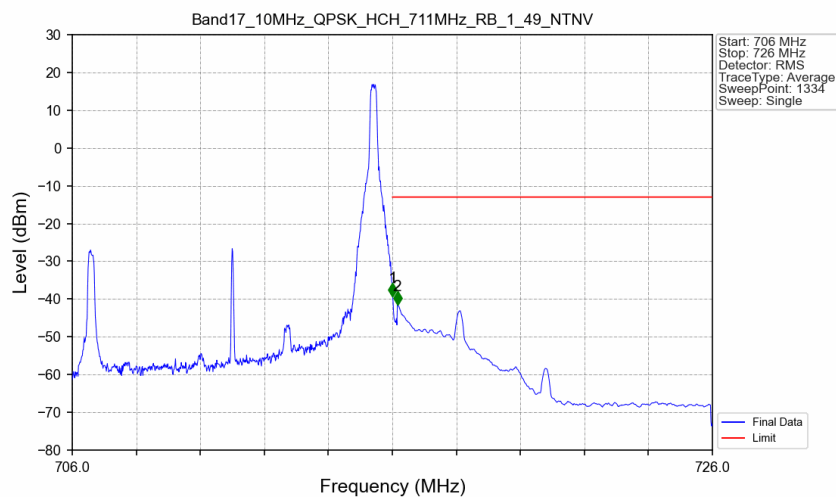
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

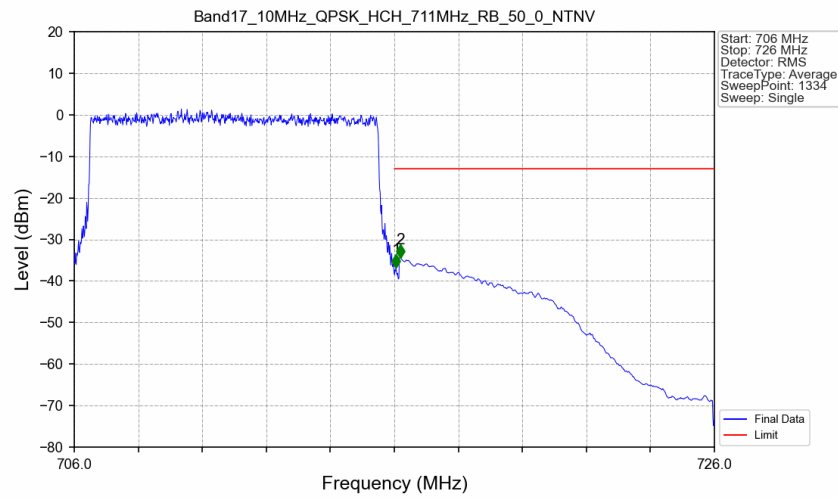


Band17_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-39.27	-13	Pass
716.1	726	0.1	CHP	2	716.158	-41.44	-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	716.053	-36.84	-13	Pass
716.1	726	0.1	CHP	2	716.188	-34.41	-13	Pass