

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	21.66	-6.38	13.13	<=34.77	Pass
			13	21.66	-6.38	13.13	<=34.77	Pass
			24	21.64	-6.38	13.11	<=34.77	Pass
		12	0	20.69	-6.38	12.16	<=34.77	Pass
			6	20.59	-6.38	12.06	<=34.77	Pass
			13	20.58	-6.38	12.05	<=34.77	Pass
		25	0	20.65	-6.38	12.12	<=34.77	Pass
	710	1	0	21.66	-6.38	13.13	<=34.77	Pass
			13	21.54	-6.38	13.01	<=34.77	Pass
			24	21.41	-6.38	12.88	<=34.77	Pass
		12	0	20.59	-6.38	12.06	<=34.77	Pass
			6	20.60	-6.38	12.07	<=34.77	Pass
			13	20.70	-6.38	12.17	<=34.77	Pass
		25	0	20.56	-6.38	12.03	<=34.77	Pass
	713.5	1	0	21.59	-6.38	13.06	<=34.77	Pass
			13	21.60	-6.38	13.07	<=34.77	Pass
			24	21.62	-6.38	13.09	<=34.77	Pass
		12	0	20.72	-6.38	12.19	<=34.77	Pass
			6	20.84	-6.38	12.31	<=34.77	Pass
			13	20.61	-6.38	12.08	<=34.77	Pass
		25	0	20.79	-6.38	12.26	<=34.77	Pass
16QAM	706.5	1	0	19.93	-6.38	11.40	<=34.77	Pass
			13	19.95	-6.38	11.42	<=34.77	Pass
			24	19.97	-6.38	11.44	<=34.77	Pass
		12	0	19.56	-6.38	11.03	<=34.77	Pass
			6	19.54	-6.38	11.01	<=34.77	Pass
			13	19.56	-6.38	11.03	<=34.77	Pass
		25	0	19.59	-6.38	11.06	<=34.77	Pass
	710	1	0	20.64	-6.38	12.11	<=34.77	Pass
			13	20.76	-6.38	12.23	<=34.77	Pass
			24	20.72	-6.38	12.19	<=34.77	Pass
		12	0	19.59	-6.38	11.06	<=34.77	Pass
			6	19.60	-6.38	11.07	<=34.77	Pass
			13	19.67	-6.38	11.14	<=34.77	Pass
		25	0	19.64	-6.38	11.11	<=34.77	Pass
	713.5	1	0	20.55	-6.38	12.02	<=34.77	Pass
			13	20.63	-6.38	12.10	<=34.77	Pass
			24	20.63	-6.38	12.10	<=34.77	Pass
		12	0	19.86	-6.38	11.33	<=34.77	Pass
			6	20.03	-6.38	11.50	<=34.77	Pass
			13	19.98	-6.38	11.45	<=34.77	Pass
		25	0	19.97	-6.38	11.44	<=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	21.68	-6.38	13.15	<=34.77	Pass
			25	21.57	-6.38	13.04	<=34.77	Pass
			49	21.60	-6.38	13.07	<=34.77	Pass
		25	0	20.59	-6.38	12.06	<=34.77	Pass
			13	20.61	-6.38	12.08	<=34.77	Pass
			25	20.60	-6.38	12.07	<=34.77	Pass
		50	0	20.64	-6.38	12.11	<=34.77	Pass
	710	1	0	21.58	-6.38	13.05	<=34.77	Pass
			25	21.67	-6.38	13.14	<=34.77	Pass
			49	21.58	-6.38	13.05	<=34.77	Pass
		25	0	20.62	-6.38	12.09	<=34.77	Pass
			13	20.70	-6.38	12.17	<=34.77	Pass
			25	20.65	-6.38	12.12	<=34.77	Pass
		50	0	20.69	-6.38	12.16	<=34.77	Pass
	711	1	0	21.90	-6.38	13.37	<=34.77	Pass
			25	21.96	-6.38	13.43	<=34.77	Pass
			49	21.98	-6.38	13.45	<=34.77	Pass
		25	0	20.64	-6.38	12.11	<=34.77	Pass
			13	20.72	-6.38	12.19	<=34.77	Pass
			25	20.71	-6.38	12.18	<=34.77	Pass
		50	0	20.69	-6.38	12.16	<=34.77	Pass
16QAM	709	1	0	20.12	-6.38	11.59	<=34.77	Pass
			25	20.15	-6.38	11.62	<=34.77	Pass
			49	20.21	-6.38	11.68	<=34.77	Pass
		25	0	19.61	-6.38	11.08	<=34.77	Pass
			13	19.58	-6.38	11.05	<=34.77	Pass
			25	19.69	-6.38	11.16	<=34.77	Pass
		50	0	19.62	-6.38	11.09	<=34.77	Pass
	710	1	0	20.81	-6.38	12.28	<=34.77	Pass
			25	20.77	-6.38	12.24	<=34.77	Pass
			49	20.83	-6.38	12.30	<=34.77	Pass
		25	0	19.79	-6.38	11.26	<=34.77	Pass
			13	19.82	-6.38	11.29	<=34.77	Pass
			25	19.77	-6.38	11.24	<=34.77	Pass
		50	0	19.77	-6.38	11.24	<=34.77	Pass
	711	1	0	20.62	-6.38	12.09	<=34.77	Pass
			25	20.57	-6.38	12.04	<=34.77	Pass
			49	20.61	-6.38	12.08	<=34.77	Pass
		25	0	19.72	-6.38	11.19	<=34.77	Pass
			13	19.78	-6.38	11.25	<=34.77	Pass
			25	19.95	-6.38	11.42	<=34.77	Pass
		50	0	19.74	-6.38	11.21	<=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	-18.768	-0.0264	-2.5 to 2.5	Pass
					NV	-46.549	-0.0656	-2.5 to 2.5	Pass
					HV	12.503	0.0176	-2.5 to 2.5	Pass
				-30	NV	29.912	0.0421	-2.5 to 2.5	Pass
				-20	NV	2.632	0.0037	-2.5 to 2.5	Pass
				-10	NV	36.049	0.0508	-2.5 to 2.5	Pass
				0	NV	26.321	0.0371	-2.5 to 2.5	Pass
				10	NV	13.189	0.0186	-2.5 to 2.5	Pass
				30	NV	7.195	0.0101	-2.5 to 2.5	Pass
				40	NV	43.359	0.0611	-2.5 to 2.5	Pass
				50	NV	24.505	0.0345	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band17_OBW

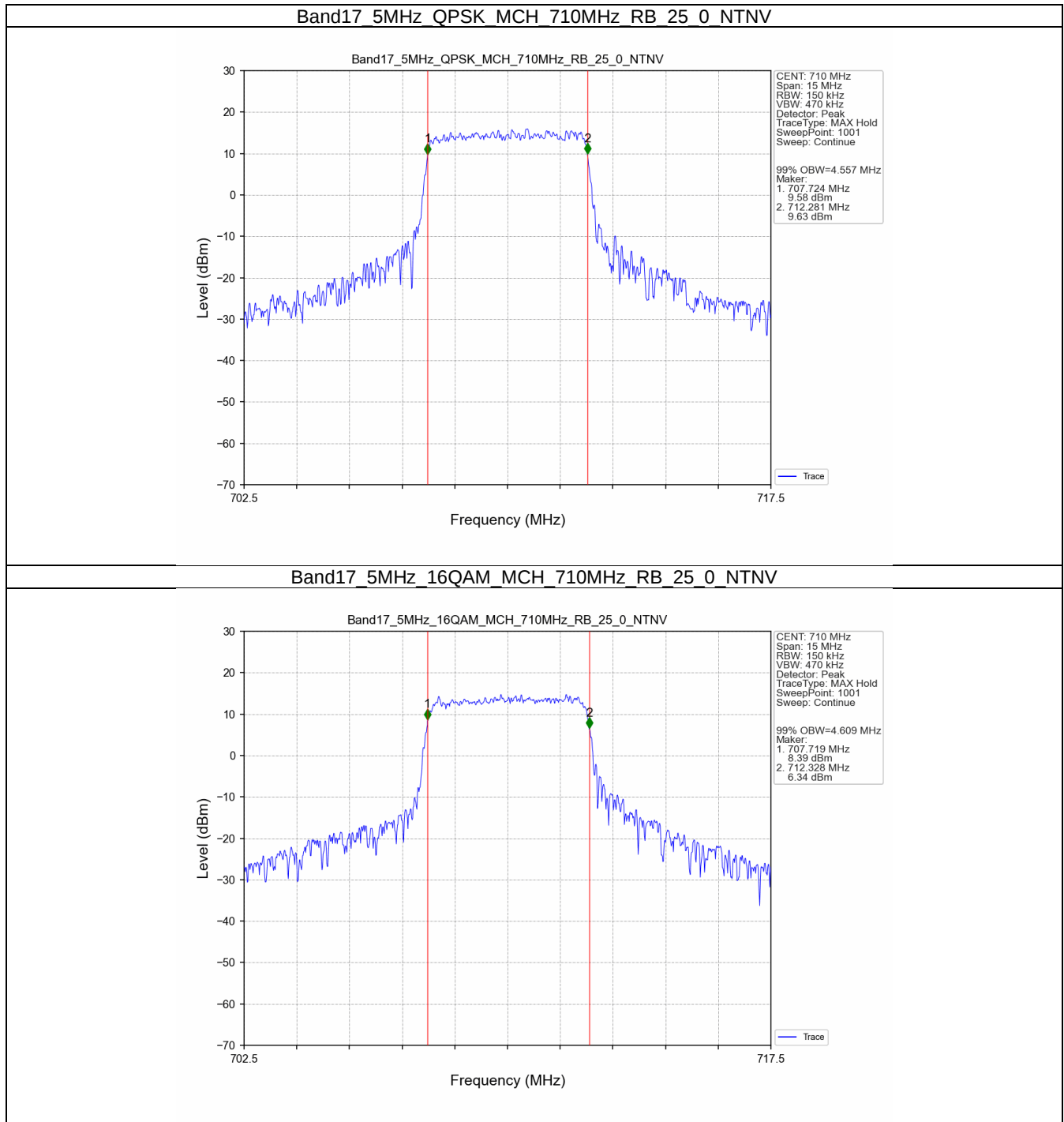
Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	710	25	0	4.557	/	Pass
	16QAM	710	25	0	4.609	/	Pass
10	QPSK	710	50	0	9.069	/	Pass
	16QAM	710	50	0	9.045	/	Pass

3.1.2 Band17_XDB

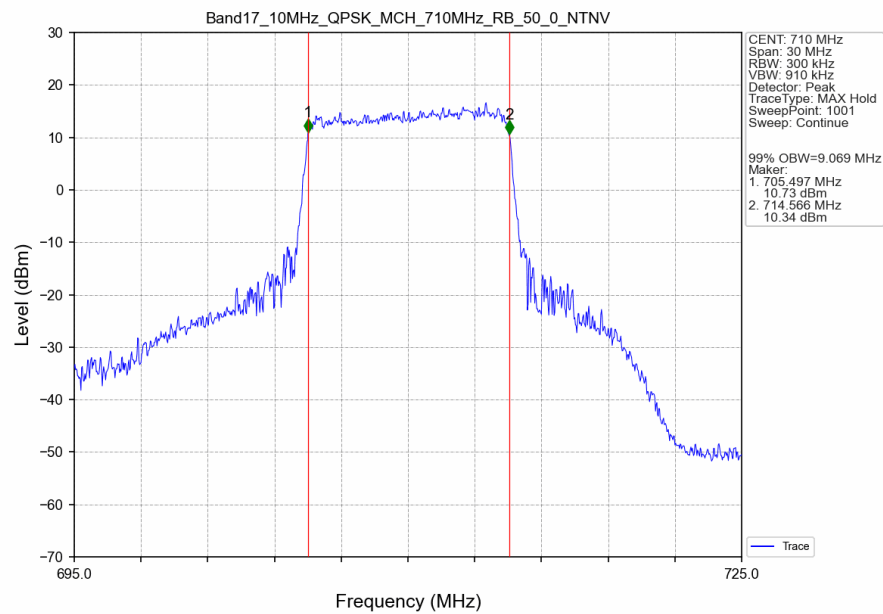
Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	710	25	0	5.752	/	Pass
	16QAM	710	25	0	5.971	/	Pass
10	QPSK	710	50	0	9.968	/	Pass
	16QAM	710	50	0	10.096	/	Pass

3.2 Test Graph

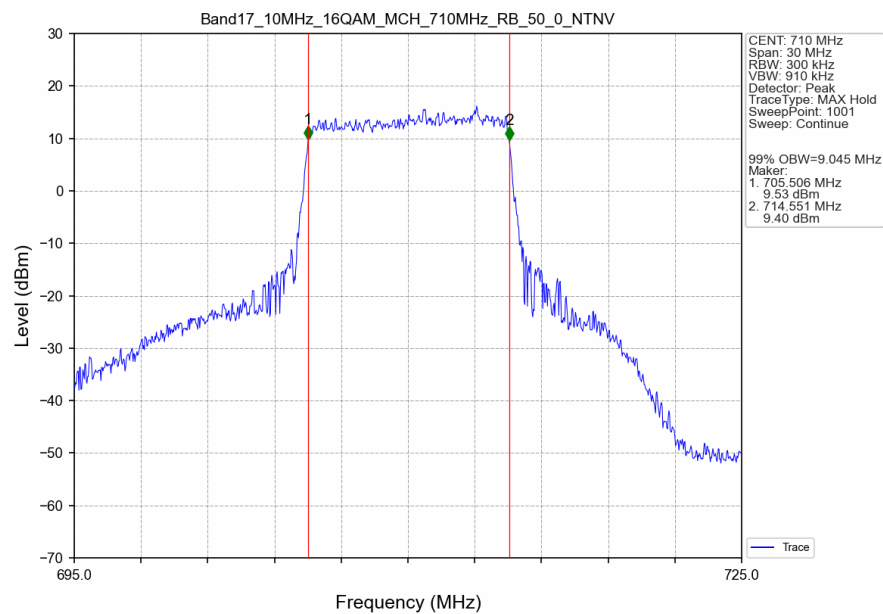
3.2.1 Band17_OBW



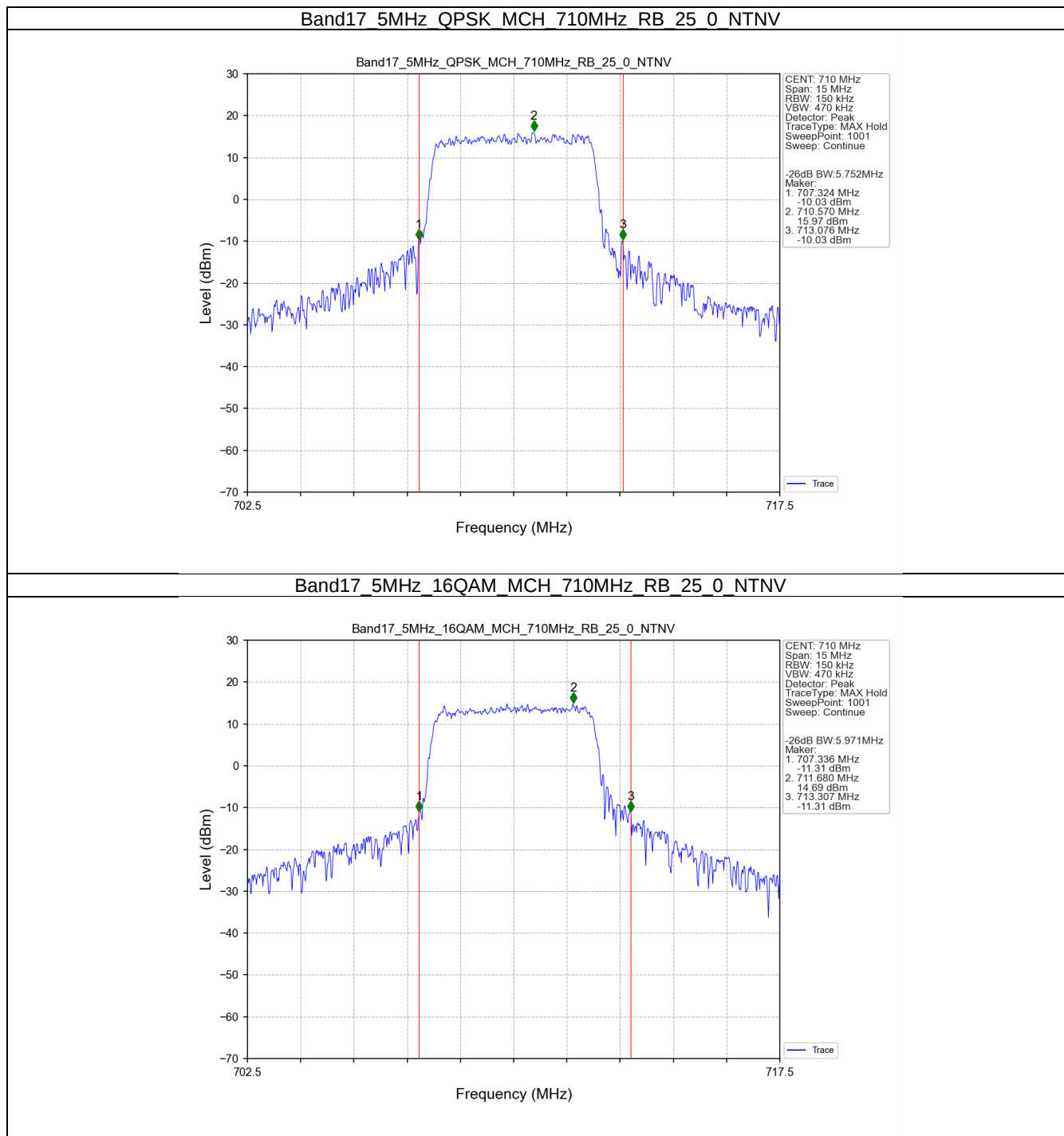
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



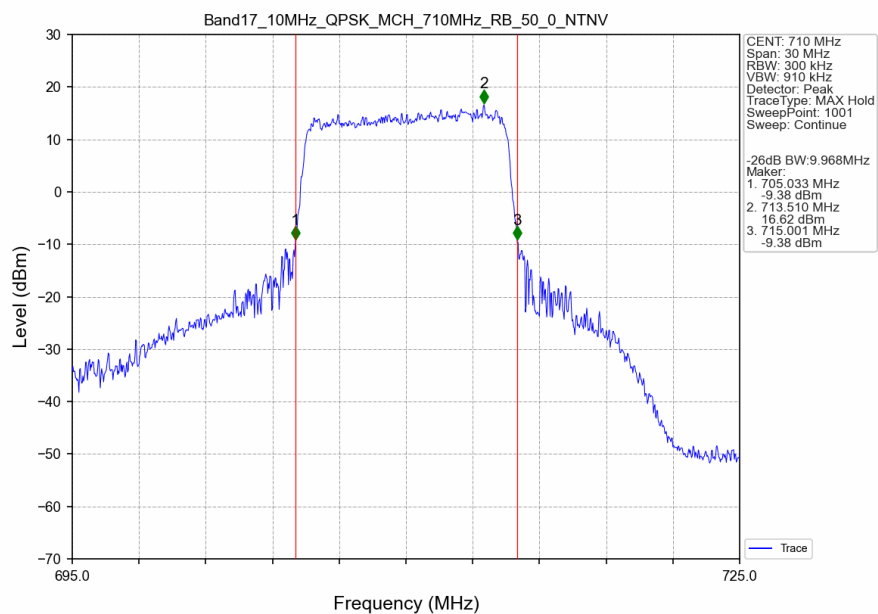
Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



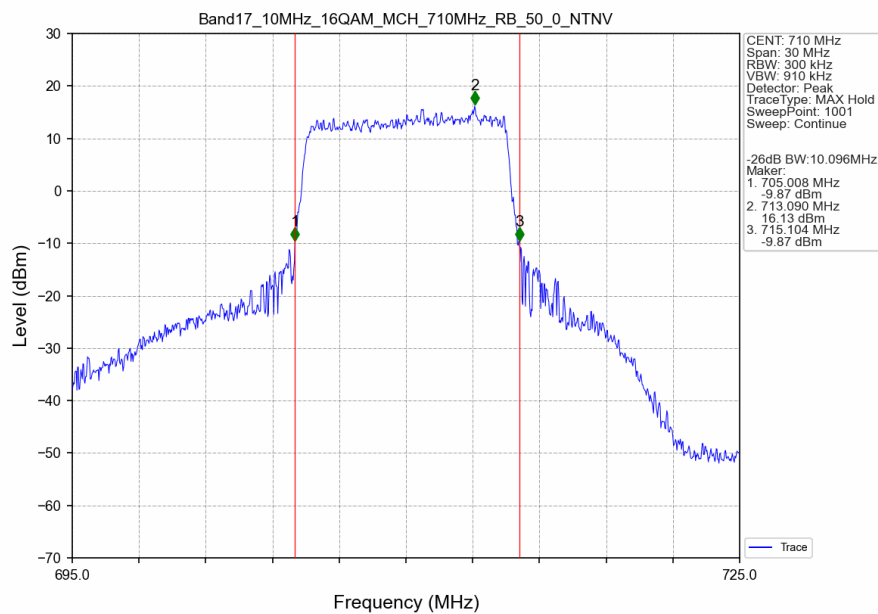
3.2.2 Band17_XDB



Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV





4. Peak-Average Ratio

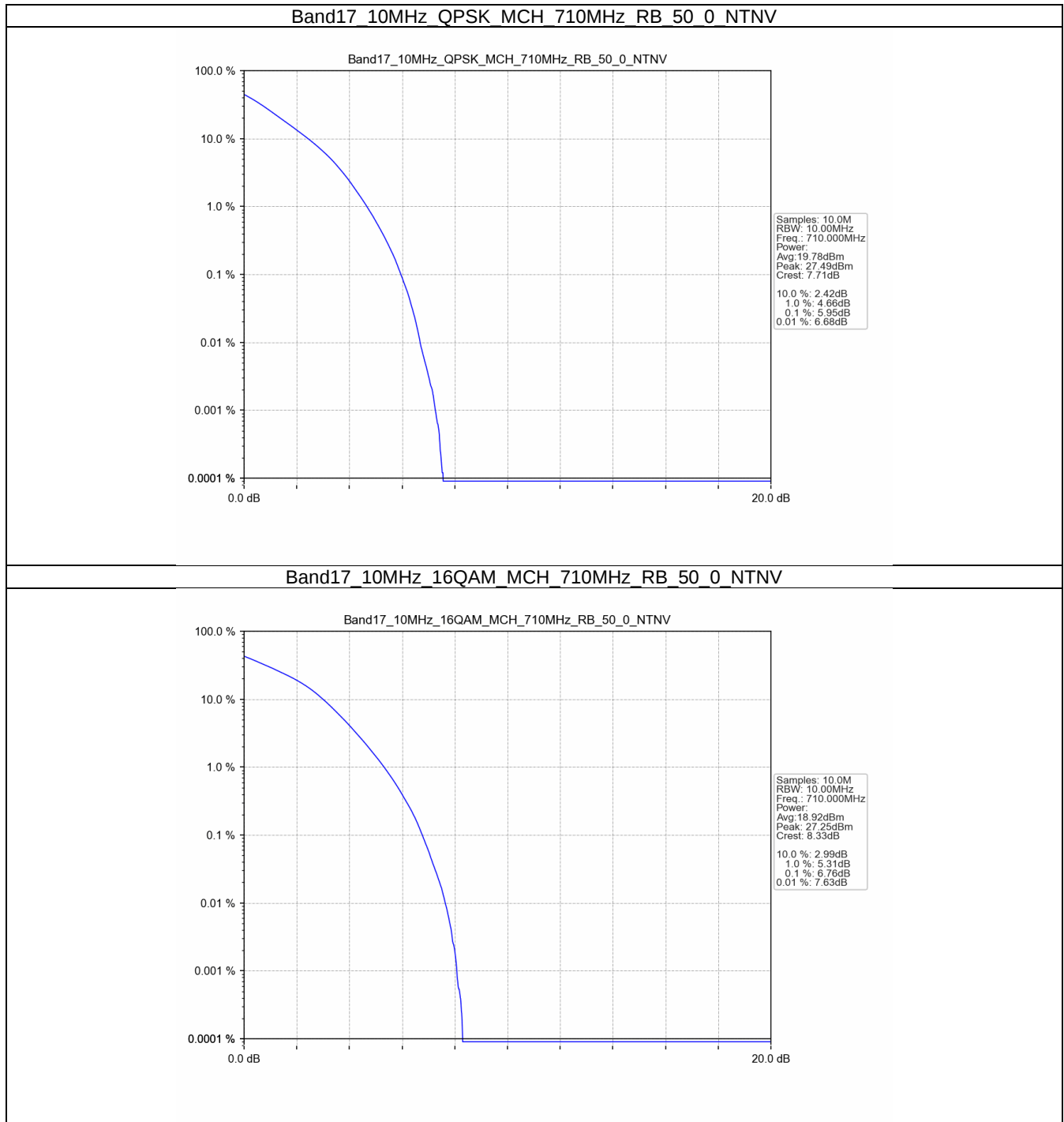
4.1 Test Result

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	5.95	<=13	Pass
16QAM	710	50	0	6.76	<=13	Pass

4.2 Test Graph

4.2.1 B17_10MHz



5. Spurious Emission

5.1 Test Result

5.1.1 B17_5MHz

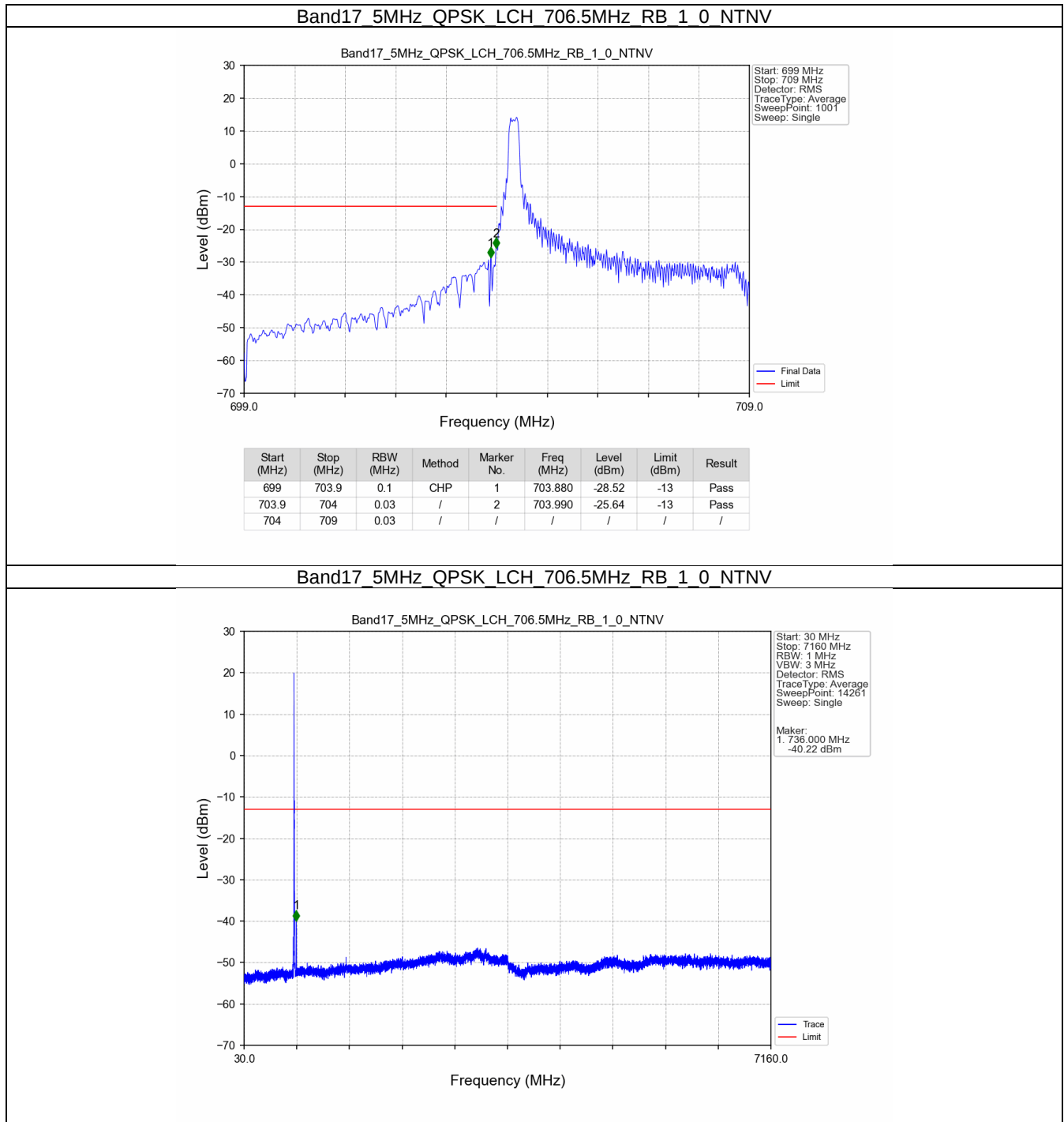
Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test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

5.1.2 B17_10MHz

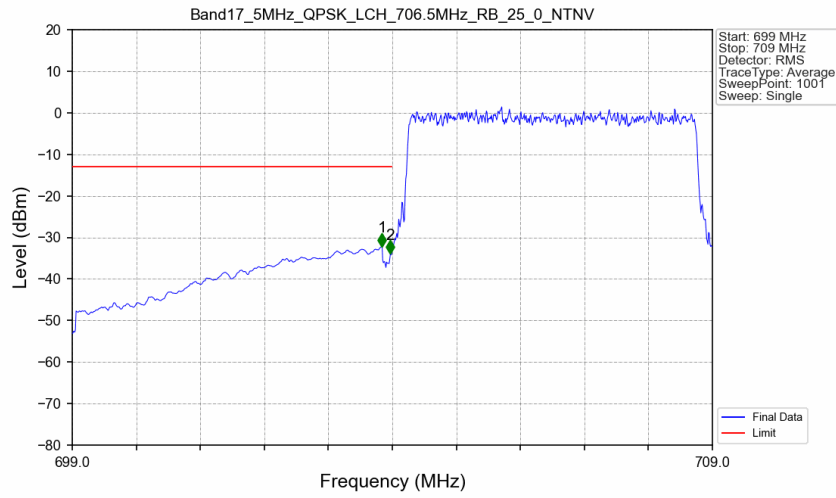
Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	709	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph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

5.2 Test Graph

5.2.1 B17_5MHz

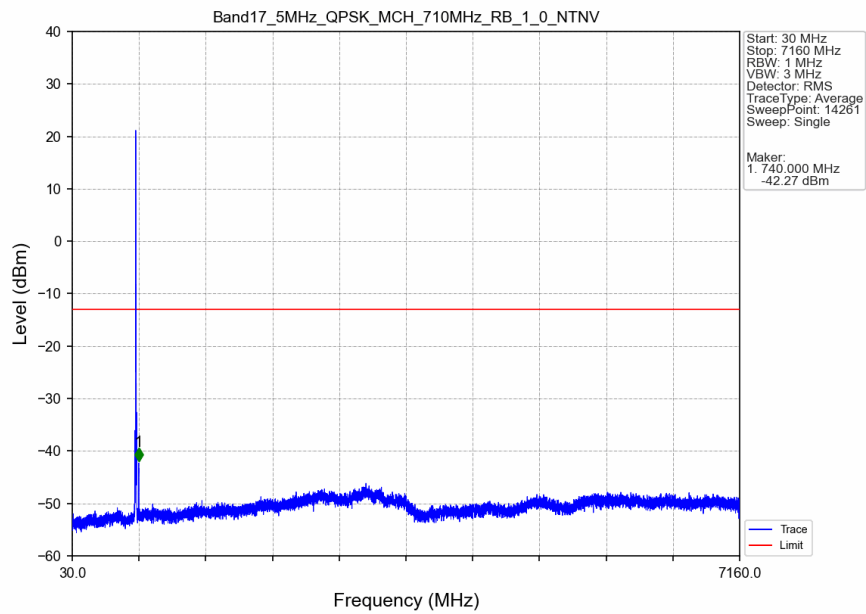


Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV

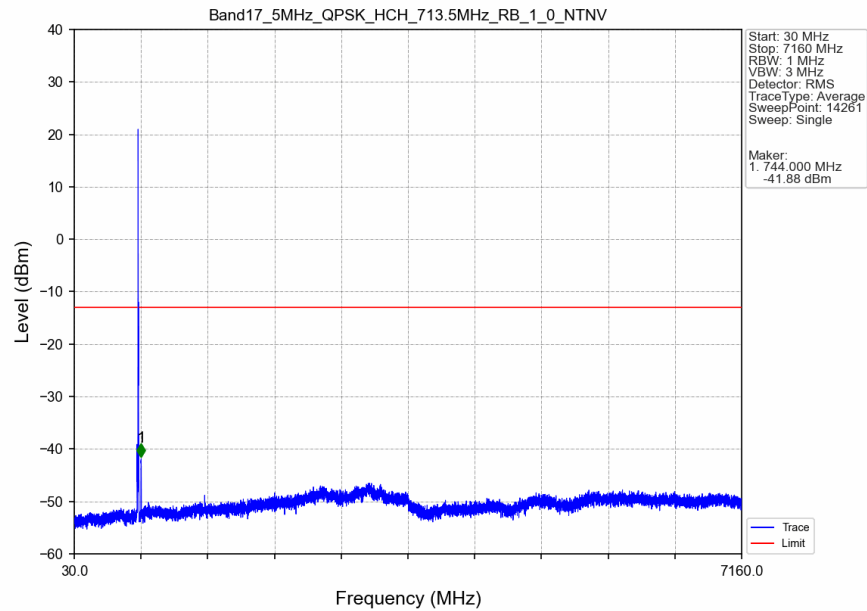


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-32.13	-13	Pass
703.9	704	0.03	/	2	703.970	-33.88	-13	Pass
704	709	0.03	/	/	/	/	/	/

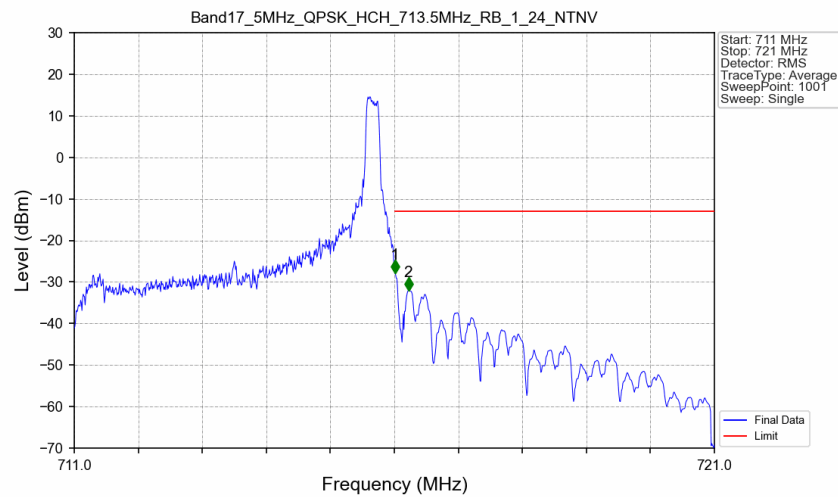
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

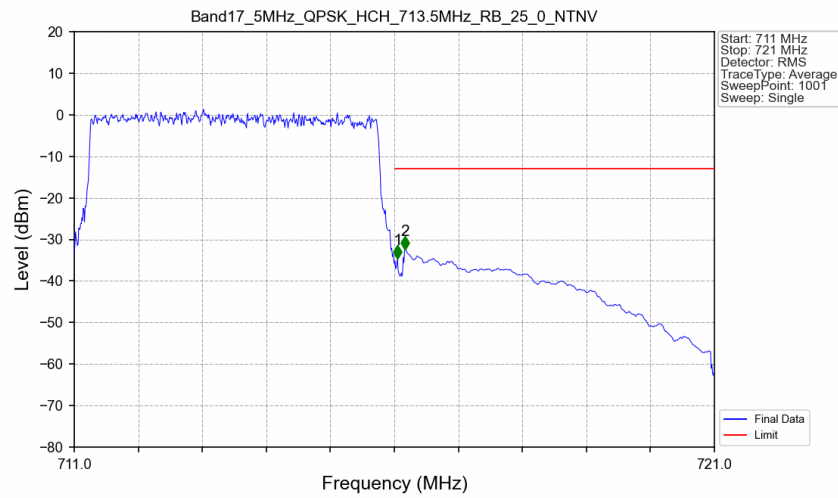


Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



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	716.010	-27.89	-13	Pass
716.1	721	0.1	CHP	2	716.220	-32.07	-13	Pass

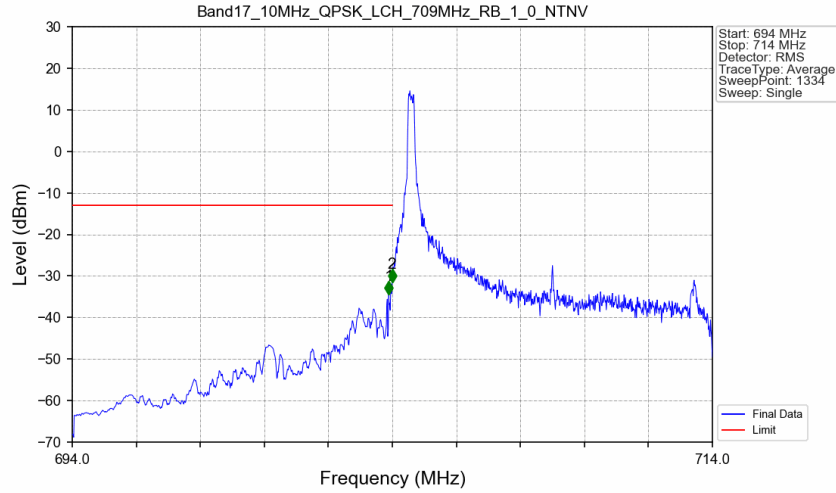
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



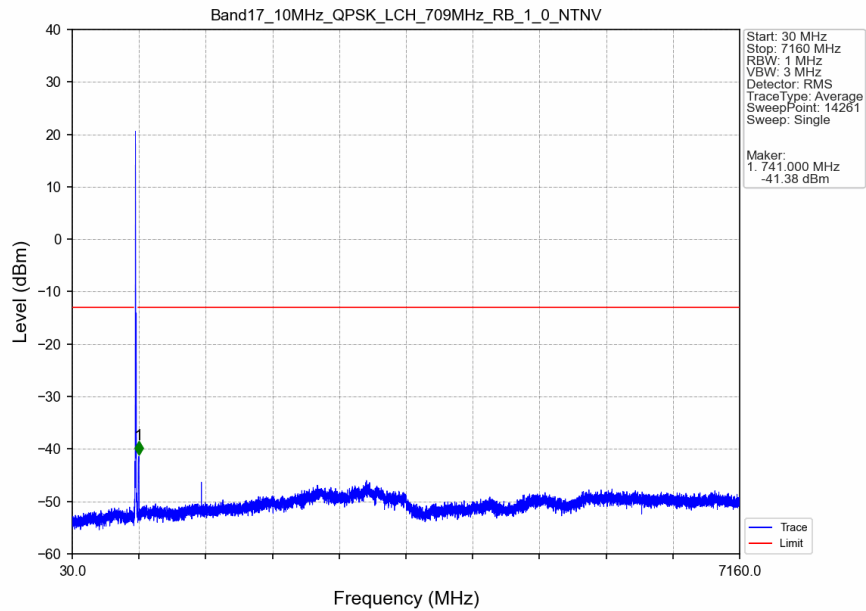
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.050	-34.67	-13	Pass
716.1	721	0.1	CHP	2	716.170	-32.41	-13	Pass

5.2.2 B17_10MHz

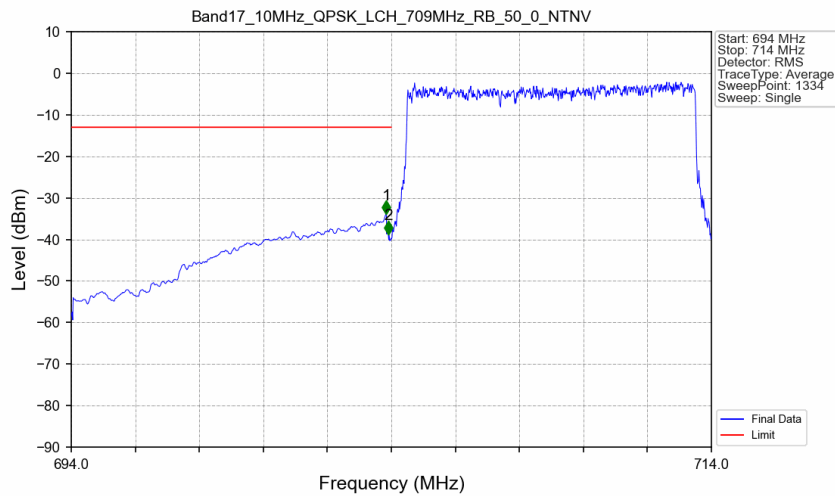
Band17 10MHz QPSK LCH 709MHz RB 1 0 NTN



Band17 10MHz QPSK LCH 709MHz RB 1 0 NTN

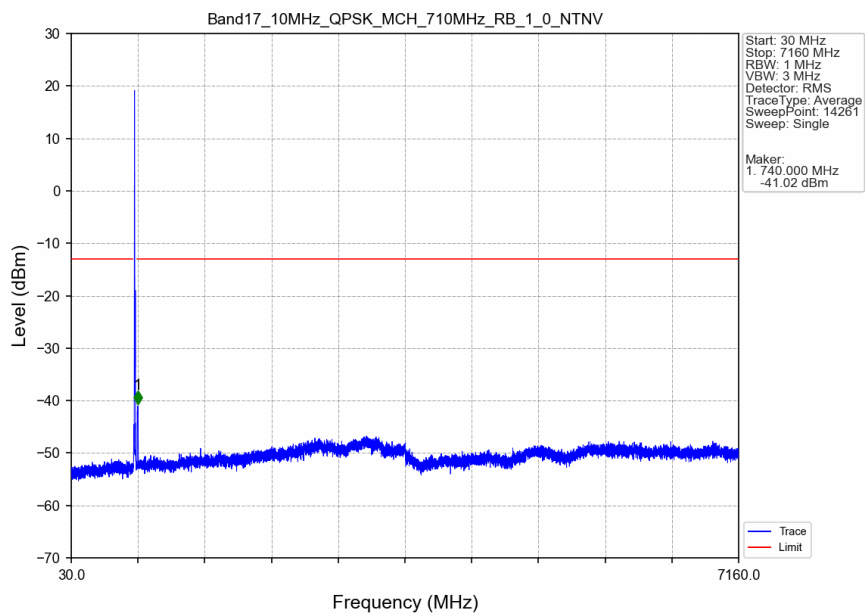


Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV

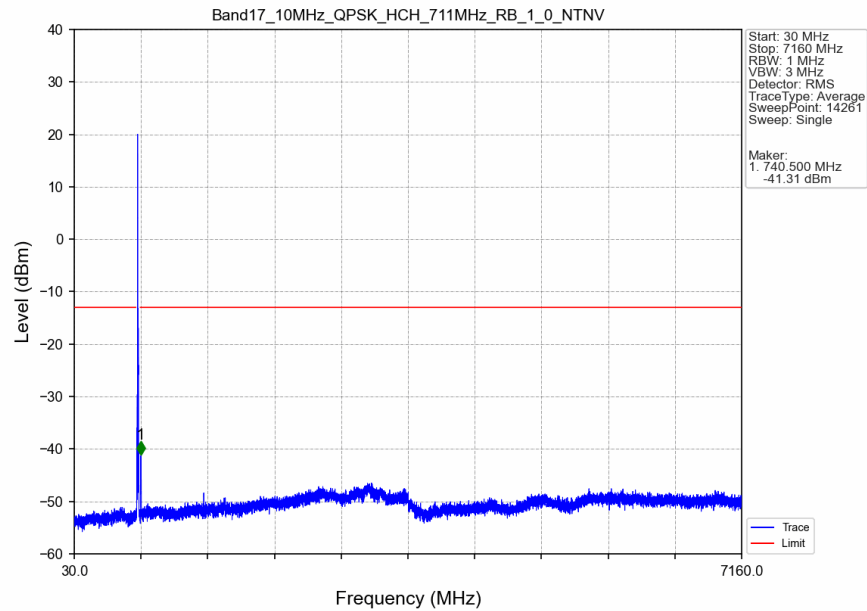


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-33.77	-13	Pass
703.9	704	0.03	/	2	703.902	-38.67	-13	Pass
704	714	0.03	/	/	/	/	/	/

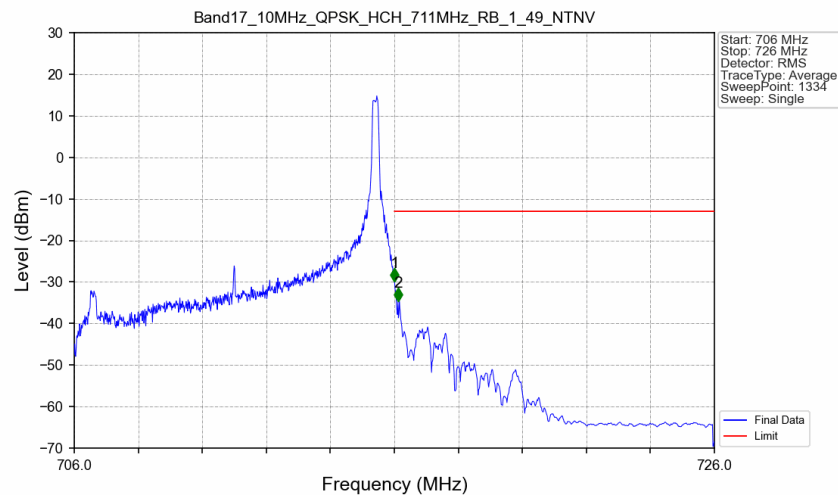
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

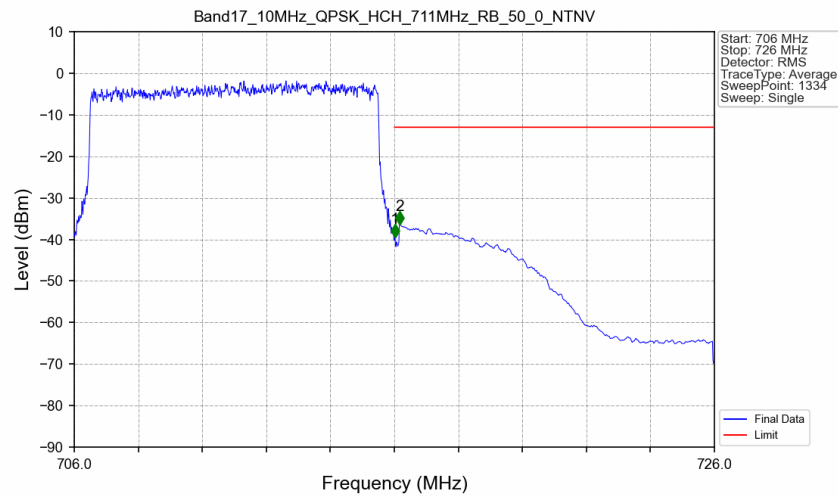


Band17_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



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	-29.86	-13	Pass
716.1	726	0.1	CHP	2	716.113	-34.62	-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	-39.56	-13	Pass
716.1	726	0.1	CHP	2	716.173	-36.31	-13	Pass