

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	23.06	-1.23	19.68	<=34.77	Pass
			13	23.30	-1.23	19.92	<=34.77	Pass
			24	22.99	-1.23	19.61	<=34.77	Pass
		12	0	22.17	-1.23	18.79	<=34.77	Pass
			6	22.13	-1.23	18.75	<=34.77	Pass
			13	22.02	-1.23	18.64	<=34.77	Pass
		25	0	22.04	-1.23	18.66	<=34.77	Pass
	710	1	0	23.02	-1.23	19.64	<=34.77	Pass
			13	23.39	-1.23	20.01	<=34.77	Pass
			24	22.86	-1.23	19.48	<=34.77	Pass
		12	0	22.15	-1.23	18.77	<=34.77	Pass
			6	22.29	-1.23	18.91	<=34.77	Pass
			13	21.95	-1.23	18.57	<=34.77	Pass
		25	0	22.05	-1.23	18.67	<=34.77	Pass
	713.5	1	0	23.00	-1.23	19.62	<=34.77	Pass
			13	23.35	-1.23	19.97	<=34.77	Pass
			24	23.12	-1.23	19.74	<=34.77	Pass
		12	0	22.10	-1.23	18.72	<=34.77	Pass
			6	22.17	-1.23	18.79	<=34.77	Pass
			13	22.11	-1.23	18.73	<=34.77	Pass
		25	0	22.07	-1.23	18.69	<=34.77	Pass
16QAM	706.5	1	0	21.70	-1.23	18.32	<=34.77	Pass
			13	22.11	-1.23	18.73	<=34.77	Pass
			24	21.65	-1.23	18.27	<=34.77	Pass
		12	0	21.15	-1.23	17.77	<=34.77	Pass
			6	21.01	-1.23	17.63	<=34.77	Pass
			13	20.93	-1.23	17.55	<=34.77	Pass
		25	0	20.92	-1.23	17.54	<=34.77	Pass
	710	1	0	21.91	-1.23	18.53	<=34.77	Pass
			13	21.75	-1.23	18.37	<=34.77	Pass
			24	21.02	-1.23	17.64	<=34.77	Pass
		12	0	20.84	-1.23	17.46	<=34.77	Pass
			6	20.98	-1.23	17.60	<=34.77	Pass
			13	20.90	-1.23	17.52	<=34.77	Pass
		25	0	21.13	-1.23	17.75	<=34.77	Pass
	713.5	1	0	21.42	-1.23	18.04	<=34.77	Pass
			13	21.75	-1.23	18.37	<=34.77	Pass
			24	21.53	-1.23	18.15	<=34.77	Pass
		12	0	20.78	-1.23	17.40	<=34.77	Pass
			6	20.93	-1.23	17.55	<=34.77	Pass
			13	20.89	-1.23	17.51	<=34.77	Pass
		25	0	20.89	-1.23	17.51	<=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	23.26	-1.23	19.88	<=34.77	Pass	
			25	23.58	-1.23	20.20	<=34.77	Pass	
			49	23.16	-1.23	19.78	<=34.77	Pass	
		25	0	22.31	-1.23	18.93	<=34.77	Pass	
			13	22.21	-1.23	18.83	<=34.77	Pass	
			25	22.04	-1.23	18.66	<=34.77	Pass	
		50	0	22.20	-1.23	18.82	<=34.77	Pass	
	710	1	0	23.22	-1.23	19.84	<=34.77	Pass	
			25	23.41	-1.23	20.03	<=34.77	Pass	
			49	23.04	-1.23	19.66	<=34.77	Pass	
		25	0	22.24	-1.23	18.86	<=34.77	Pass	
			13	22.25	-1.23	18.87	<=34.77	Pass	
			25	22.11	-1.23	18.73	<=34.77	Pass	
		50	0	22.16	-1.23	18.78	<=34.77	Pass	
	711	1	0	23.17	-1.23	19.79	<=34.77	Pass	
			25	23.33	-1.23	19.95	<=34.77	Pass	
			49	23.05	-1.23	19.67	<=34.77	Pass	
		25	0	22.15	-1.23	18.77	<=34.77	Pass	
			13	22.18	-1.23	18.80	<=34.77	Pass	
			25	22.17	-1.23	18.79	<=34.77	Pass	
		50	0	22.20	-1.23	18.82	<=34.77	Pass	
16QAM	709	1	0	21.79	-1.23	18.41	<=34.77	Pass	
			25	22.03	-1.23	18.65	<=34.77	Pass	
			49	21.84	-1.23	18.46	<=34.77	Pass	
		25	0	21.03	-1.23	17.65	<=34.77	Pass	
			13	20.95	-1.23	17.57	<=34.77	Pass	
			25	20.89	-1.23	17.51	<=34.77	Pass	
		50	0	21.20	-1.23	17.82	<=34.77	Pass	
	710	1	0	21.79	-1.23	18.41	<=34.77	Pass	
			25	21.95	-1.23	18.57	<=34.77	Pass	
			49	21.66	-1.23	18.28	<=34.77	Pass	
		25	0	20.93	-1.23	17.55	<=34.77	Pass	
			13	20.88	-1.23	17.50	<=34.77	Pass	
	50	25	20.65	-1.23	17.27	<=34.77	Pass		
	711	50	0	21.08	-1.23	17.70	<=34.77	Pass	
			1	0	21.82	-1.23	18.44	<=34.77	Pass
				25	21.83	-1.23	18.45	<=34.77	Pass
		49		21.77	-1.23	18.39	<=34.77	Pass	
		25	0	20.87	-1.23	17.49	<=34.77	Pass	
13			20.87	-1.23	17.49	<=34.77	Pass		
25			21.00	-1.23	17.62	<=34.77	Pass		
50	0	21.12	-1.23	17.74	<=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	1.200	0.0017	-2.5 to 2.5	Pass
					NV	2.700	0.0038	-2.5 to 2.5	Pass
					HV	1.400	0.0020	-2.5 to 2.5	Pass
				-30	NV	2.300	0.0032	-2.5 to 2.5	Pass
				-20	NV	2.100	0.0030	-2.5 to 2.5	Pass
				-10	NV	0.500	0.0007	-2.5 to 2.5	Pass
				0	NV	3.400	0.0048	-2.5 to 2.5	Pass
				10	NV	1.900	0.0027	-2.5 to 2.5	Pass
				30	NV	2.300	0.0032	-2.5 to 2.5	Pass
				40	NV	3.900	0.0055	-2.5 to 2.5	Pass
				50	NV	2.200	0.0031	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band17_OBW

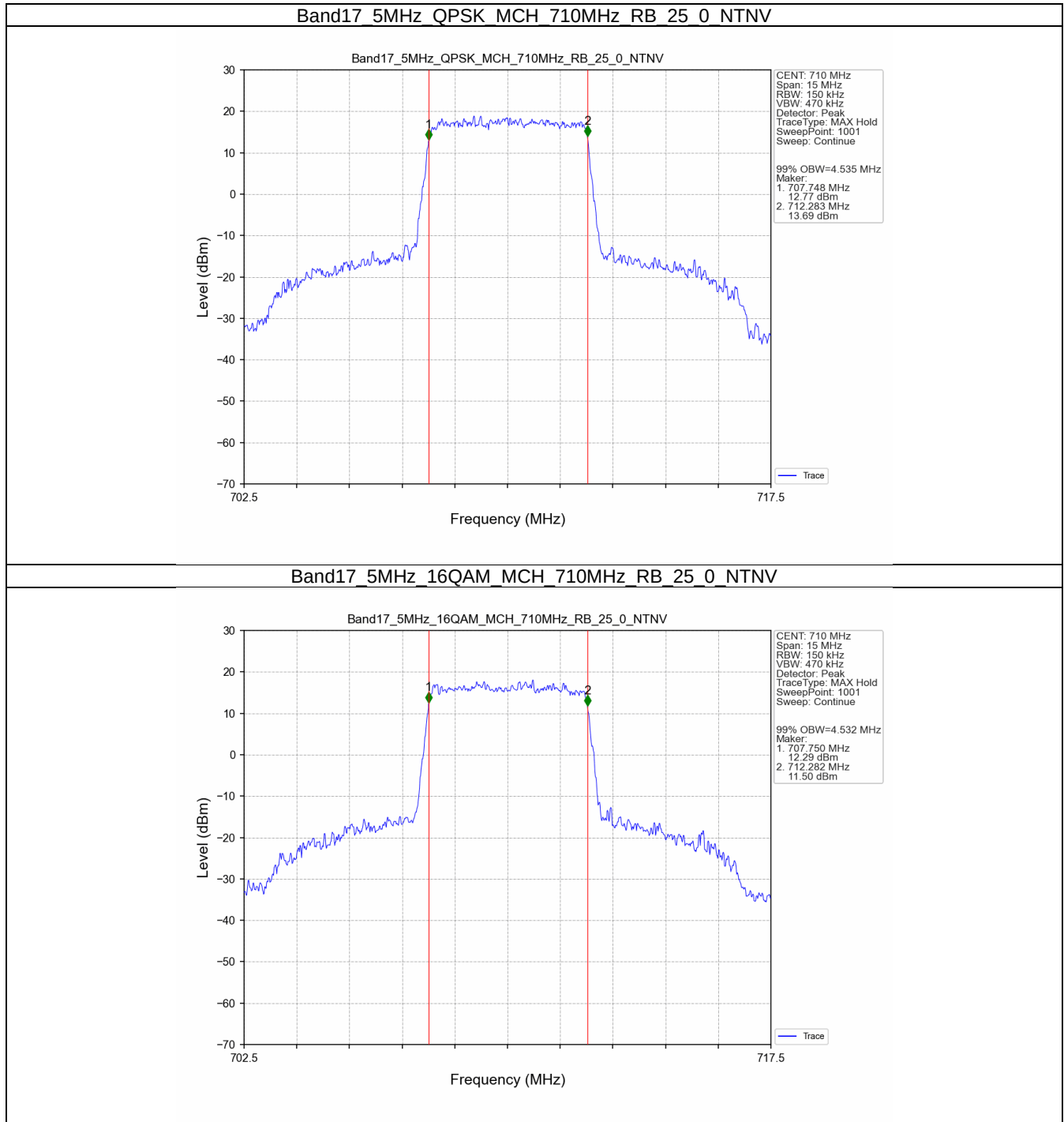
Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	710	25	0	4.535	/	Pass
	16QAM	710	25	0	4.532	/	Pass
10	QPSK	710	50	0	9.049	/	Pass
	16QAM	710	50	0	9.002	/	Pass

3.1.2 Band17_XDB

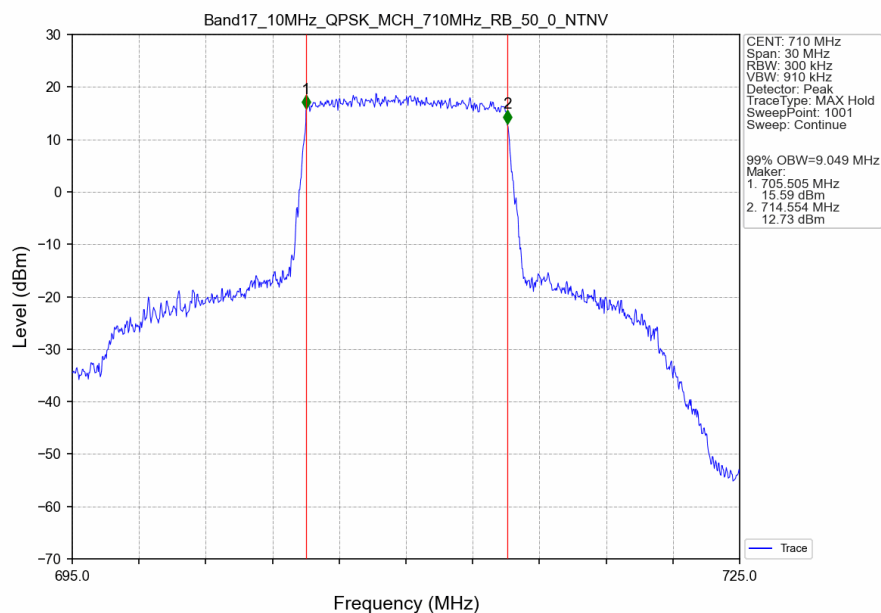
Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	710	25	0	5.088	/	Pass
	16QAM	710	25	0	5.049	/	Pass
10	QPSK	710	50	0	10.024	/	Pass
	16QAM	710	50	0	9.948	/	Pass

3.2 Test Graph

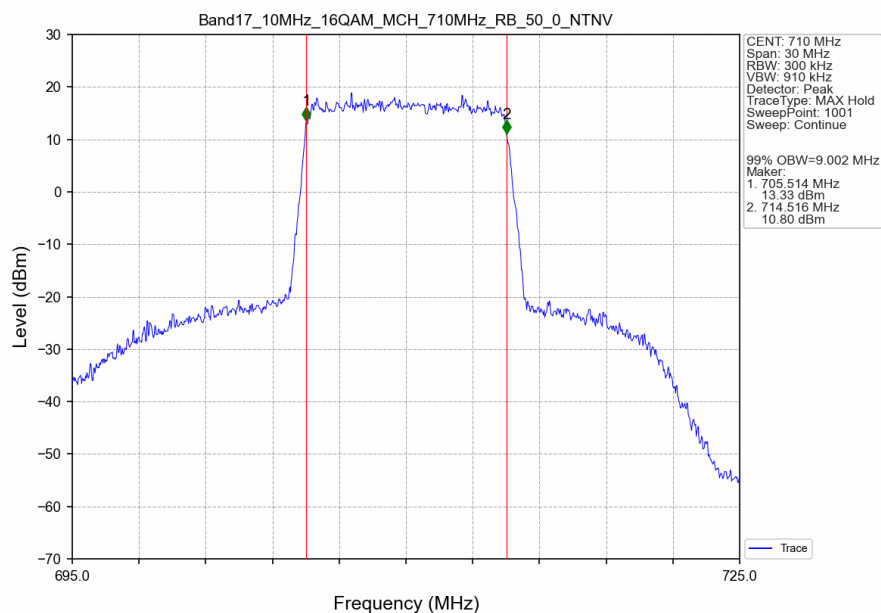
3.2.1 Band17_OBW



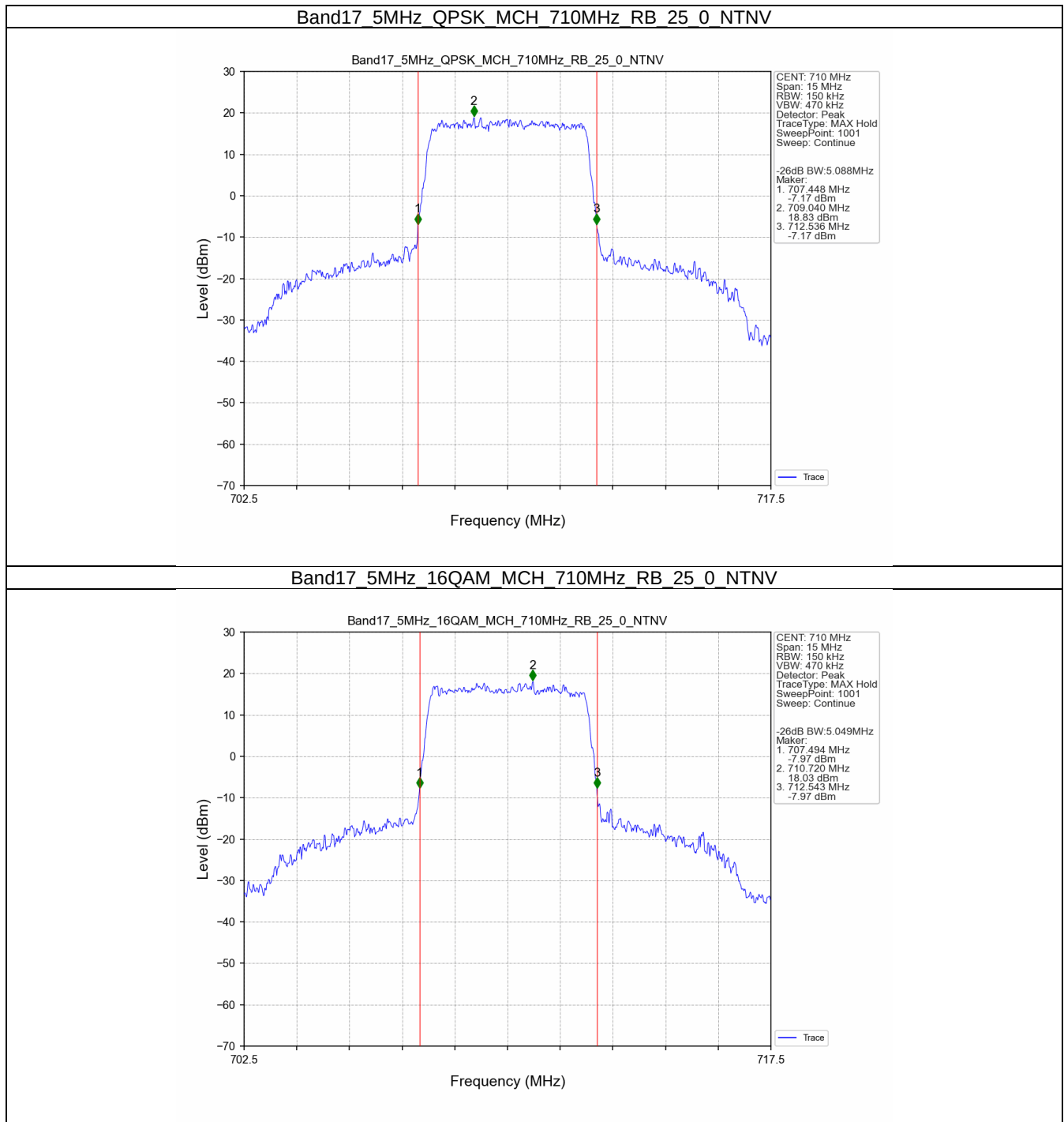
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



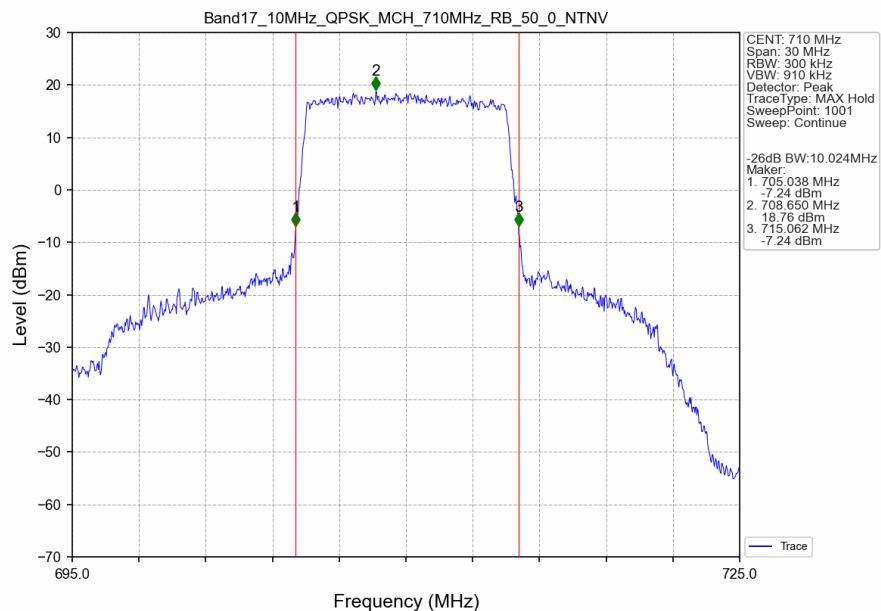
Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



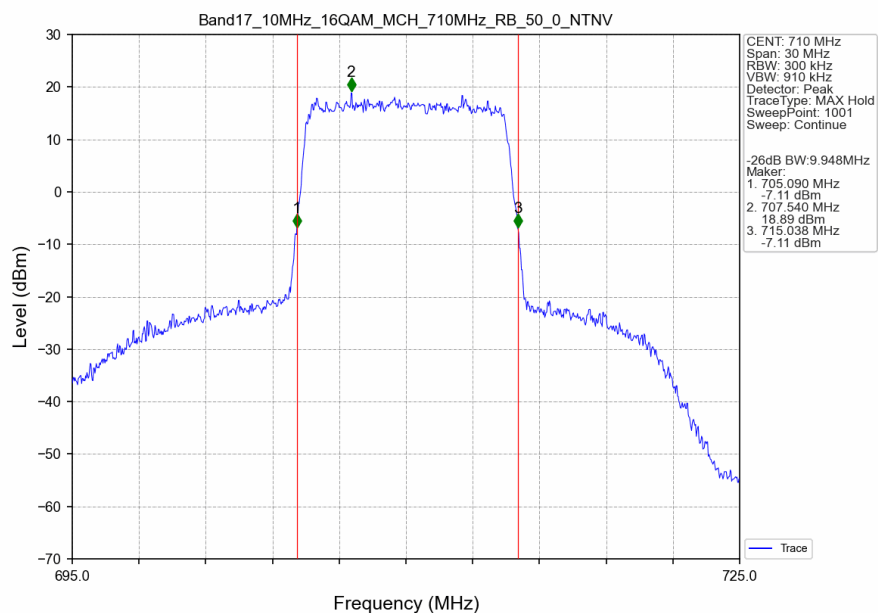
3.2.2 Band17_XDB



Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



4. Peak-Average Ratio

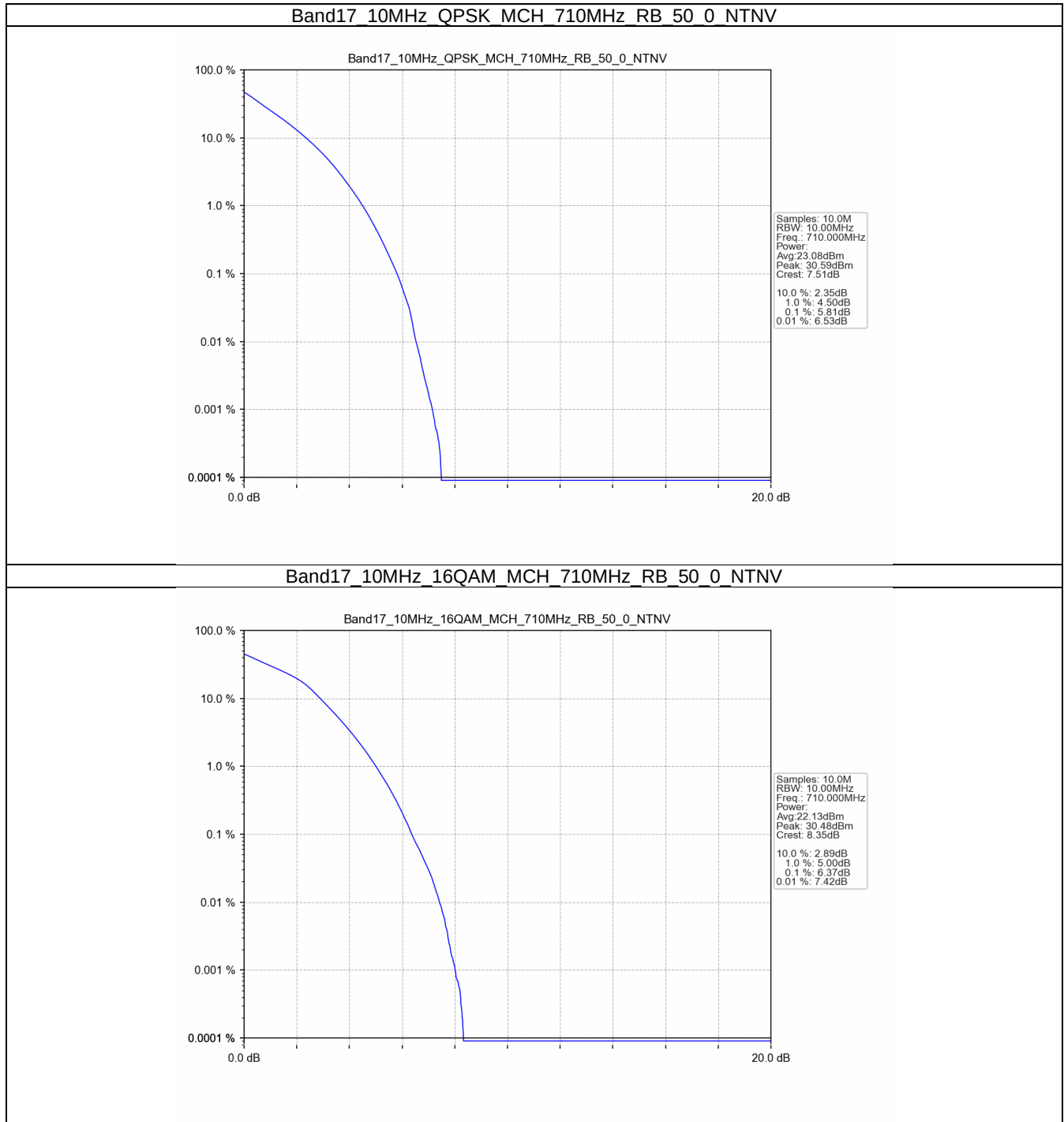
4.1 Test Result

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	5.81	<=13	Pass
16QAM	710	50	0	6.37	<=13	Pass

4.2 Test Graph

4.2.1 B17_10MHz



5. Spurious Emission

5.1 Test Result

5.1.1 B17_5MHz

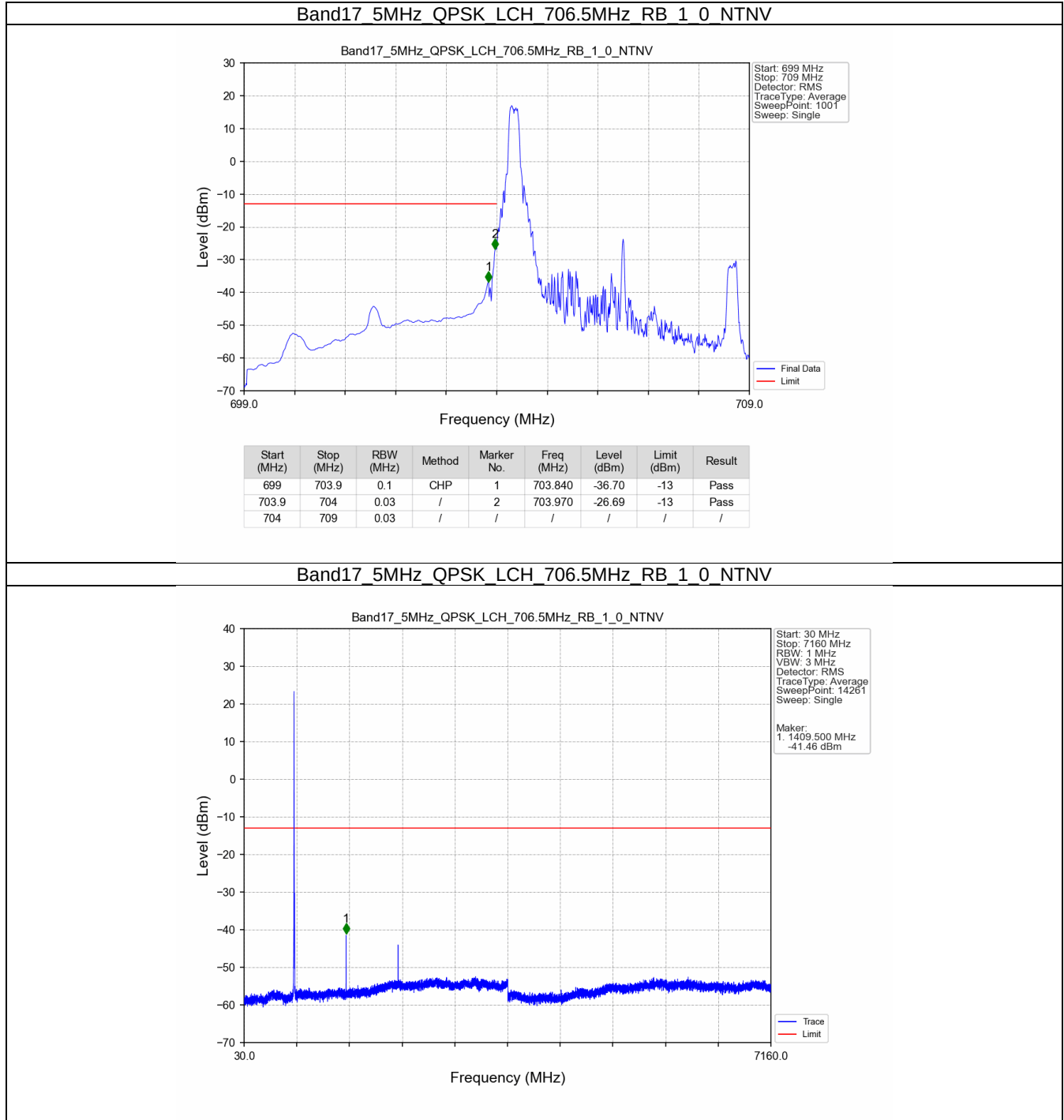
Band: 17 / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test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

5.1.2 B17_10MHz

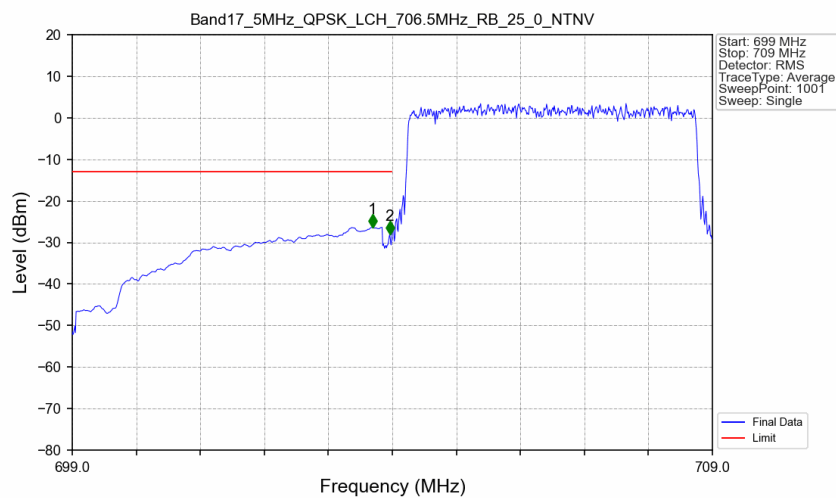
Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	709	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph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

5.2 Test Graph

5.2.1 B17_5MHz

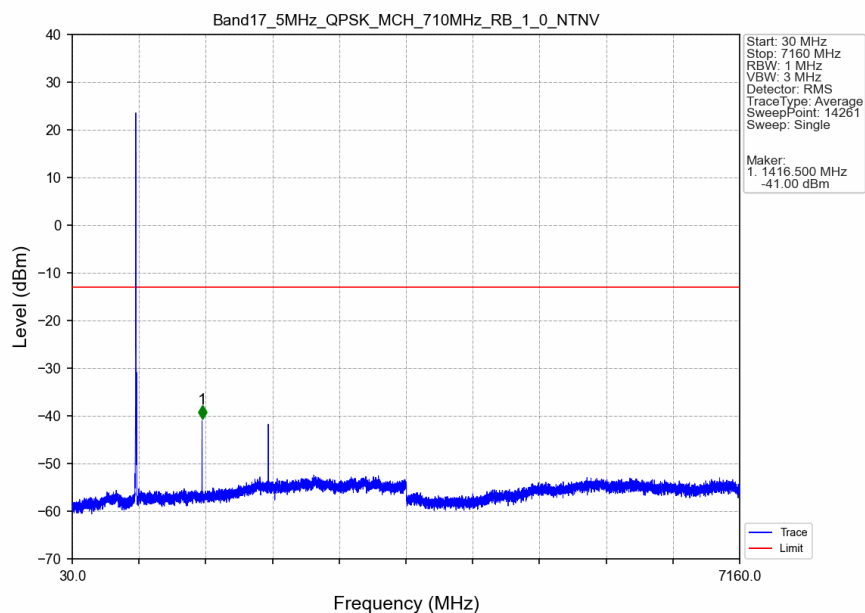


Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV

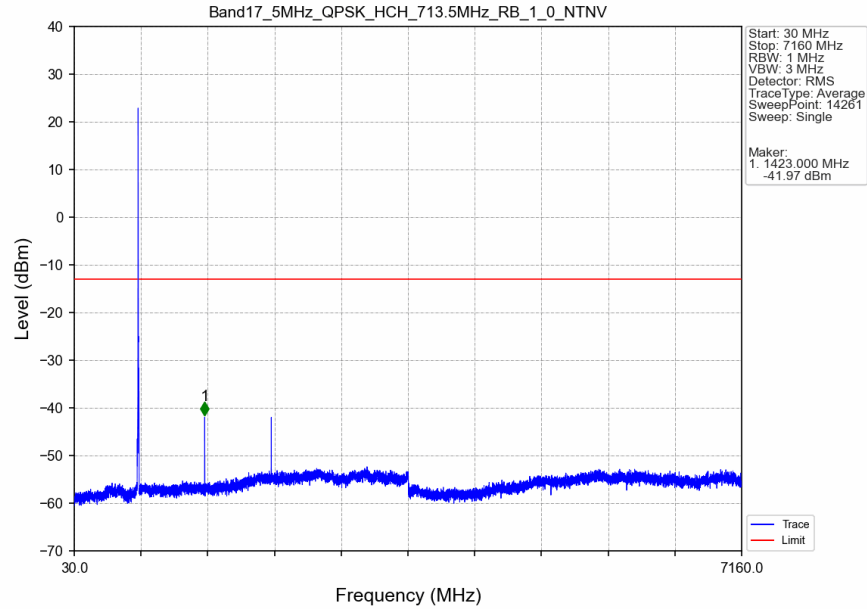


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.690	-26.38	-13	Pass
703.9	704	0.03	/	2	703.960	-28.03	-13	Pass
704	709	0.03	/	/	/	/	/	/

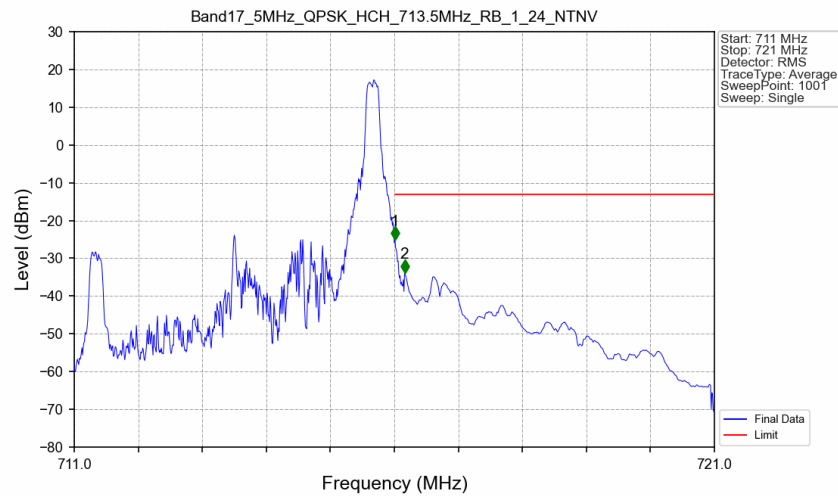
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



Band17 5MHz QPSK HCH 713.5MHz RB_1_0_NTNV

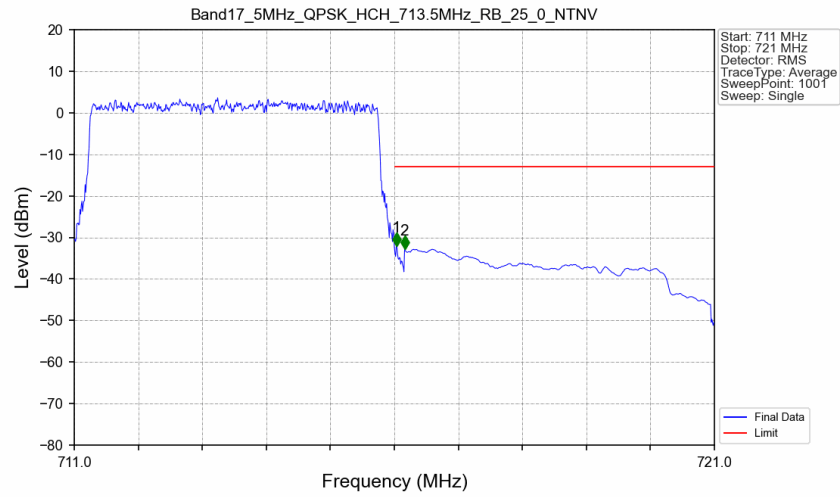


Band17 5MHz QPSK HCH 713.5MHz RB_1_24_NTNV



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	-24.95	-13	Pass
716.1	721	0.1	CHP	2	716.160	-33.76	-13	Pass

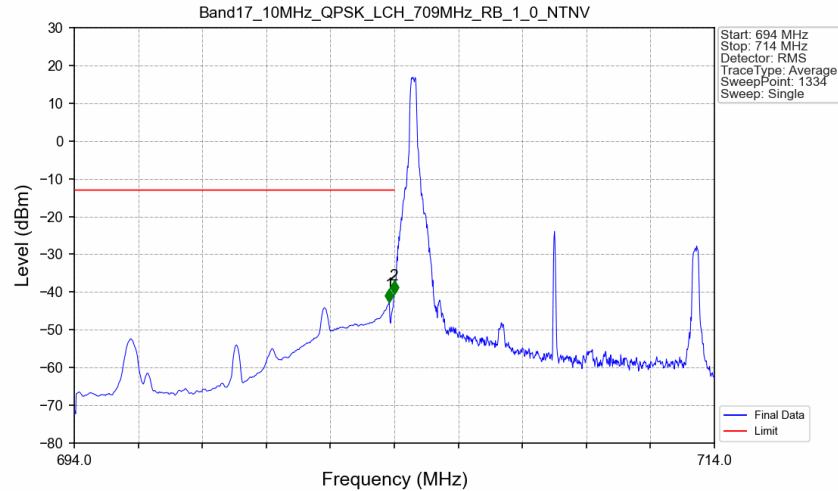
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



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	716.030	-31.98	-13	Pass
716.1	721	0.1	CHP	2	716.160	-32.85	-13	Pass

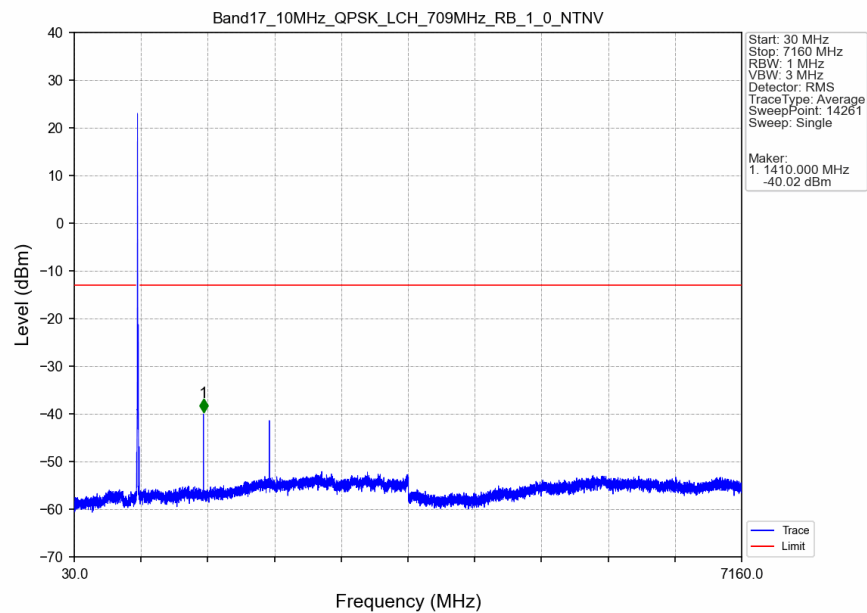
5.2.2 B17_10MHz

Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV

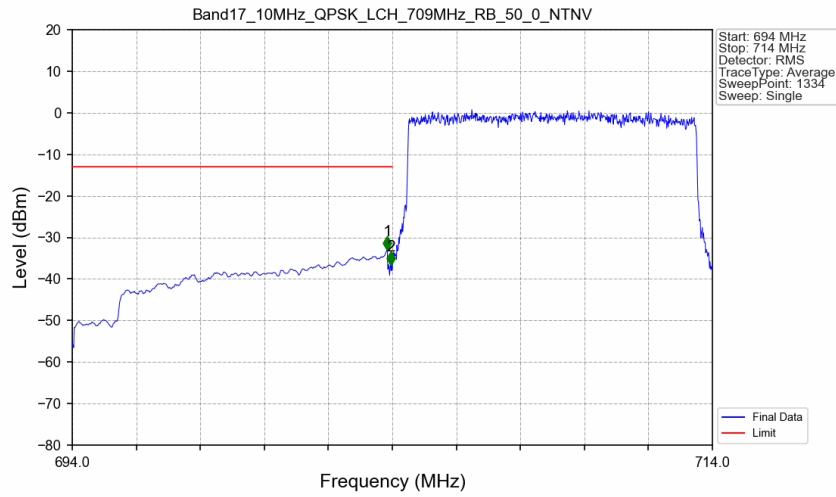


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-42.72	-13	Pass
703.9	704	0.03	/	2	703.992	-40.45	-13	Pass
704	714	0.03	/	/	/	/	/	/

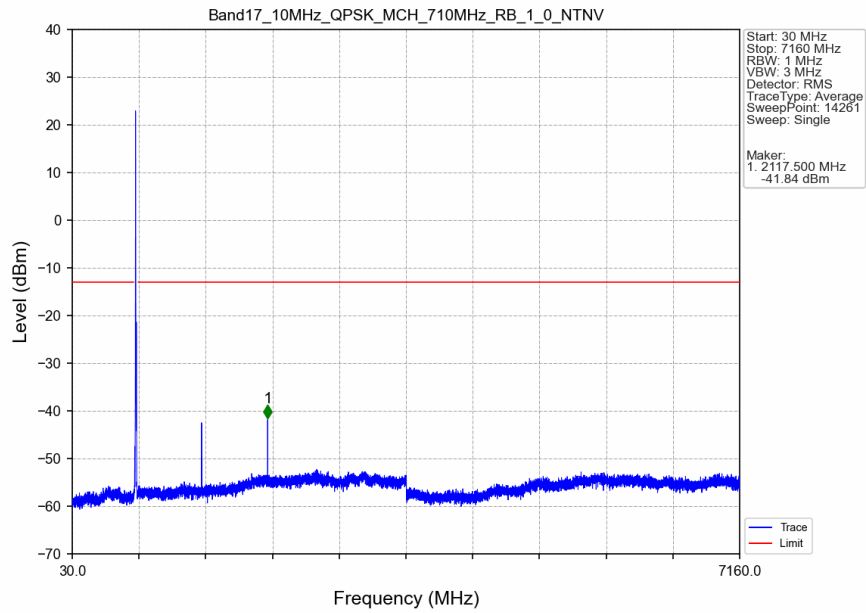
Band17_10MHz_QPSK_LCH_709MHz_RB_1_0_NTNV



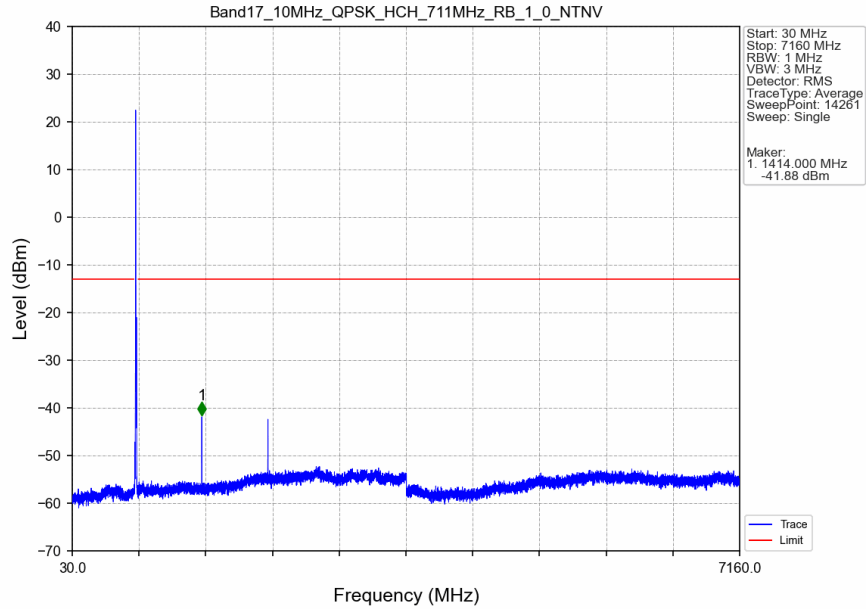
Band17 10MHz QPSK LCH 709MHz RB 50 0 NTN



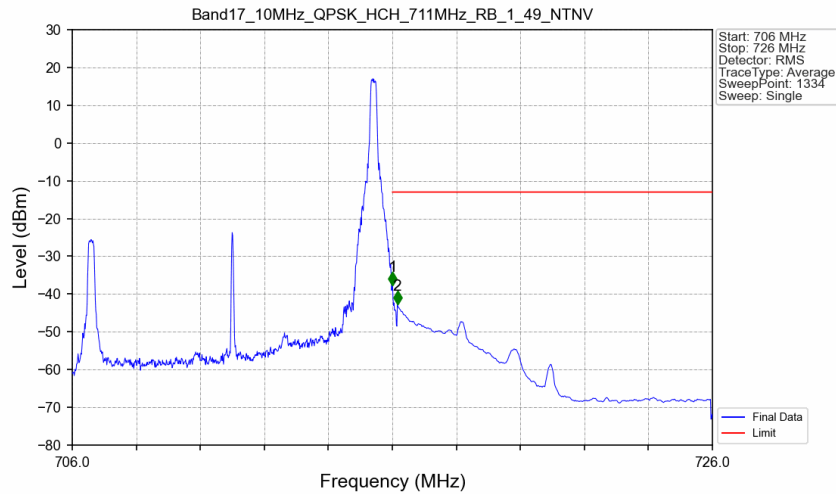
Band17 10MHz QPSK MCH 710MHz RB 1 0 NTN



Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

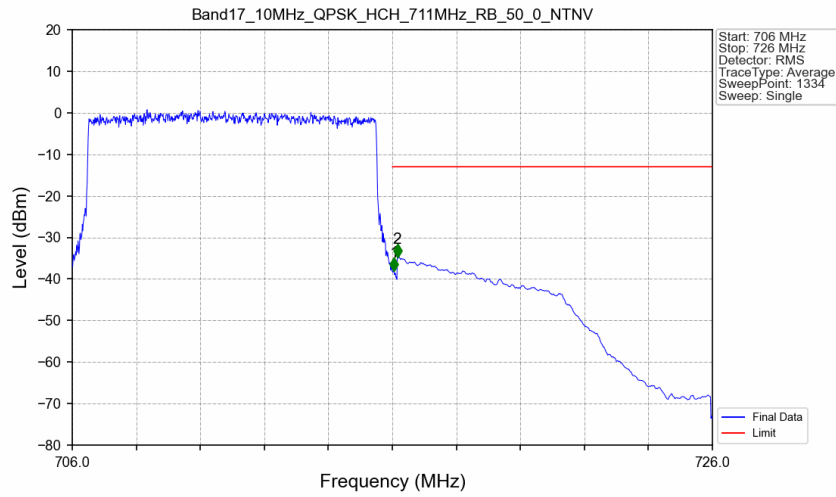


Band17_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



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	-37.58	-13	Pass
716.1	726	0.1	CHP	2	716.158	-42.73	-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	-37.98	-13	Pass
716.1	726	0.1	CHP	2	716.158	-34.75	-13	Pass