

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B17_5MHz_ERP

Band: 17 / Bandwidth: 5MHz / NTV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	706.5	1	0	23.75	0.90	22.50	<=34.77	Pass
			13	24.02	0.90	22.77	<=34.77	Pass
			24	23.58	0.90	22.33	<=34.77	Pass
		12	0	22.82	0.90	21.57	<=34.77	Pass
			6	22.85	0.90	21.60	<=34.77	Pass
			13	22.74	0.90	21.49	<=34.77	Pass
		25	0	22.78	0.90	21.53	<=34.77	Pass
	710	1	0	23.69	0.90	22.44	<=34.77	Pass
			13	24.06	0.90	22.81	<=34.77	Pass
			24	23.69	0.90	22.44	<=34.77	Pass
		12	0	22.76	0.90	21.51	<=34.77	Pass
			6	22.89	0.90	21.64	<=34.77	Pass
			13	22.76	0.90	21.51	<=34.77	Pass
		25	0	22.79	0.90	21.54	<=34.77	Pass
	713.5	1	0	23.70	0.90	22.45	<=34.77	Pass
			13	24.01	0.90	22.76	<=34.77	Pass
			24	23.61	0.90	22.36	<=34.77	Pass
		12	0	22.78	0.90	21.53	<=34.77	Pass
			6	22.80	0.90	21.55	<=34.77	Pass
			13	22.65	0.90	21.40	<=34.77	Pass
		25	0	22.75	0.90	21.50	<=34.77	Pass
16QAM	706.5	1	0	22.41	0.90	21.16	<=34.77	Pass
			13	22.63	0.90	21.38	<=34.77	Pass
			24	22.31	0.90	21.06	<=34.77	Pass
		12	0	21.68	0.90	20.43	<=34.77	Pass
			6	21.74	0.90	20.49	<=34.77	Pass
			13	21.66	0.90	20.41	<=34.77	Pass
		25	0	21.49	0.90	20.24	<=34.77	Pass
	710	1	0	22.53	0.90	21.28	<=34.77	Pass
			13	22.47	0.90	21.22	<=34.77	Pass
			24	22.31	0.90	21.06	<=34.77	Pass
		12	0	21.68	0.90	20.43	<=34.77	Pass
			6	21.82	0.90	20.57	<=34.77	Pass
			13	21.69	0.90	20.44	<=34.77	Pass
		25	0	21.57	0.90	20.32	<=34.77	Pass
	713.5	1	0	22.53	0.90	21.28	<=34.77	Pass
			13	22.40	0.90	21.15	<=34.77	Pass
			24	22.23	0.90	20.98	<=34.77	Pass
		12	0	21.67	0.90	20.42	<=34.77	Pass
6			21.73	0.90	20.48	<=34.77	Pass	
13			21.59	0.90	20.34	<=34.77	Pass	
25		0	21.48	0.90	20.23	<=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	23.94	0.90	22.69	<=34.77	Pass
			25	24.54	0.90	23.29	<=34.77	Pass
			49	23.94	0.90	22.69	<=34.77	Pass
		25	0	22.98	0.90	21.73	<=34.77	Pass
			13	22.95	0.90	21.70	<=34.77	Pass
			25	22.86	0.90	21.61	<=34.77	Pass
		50	0	22.87	0.90	21.62	<=34.77	Pass
	710	1	0	23.61	0.90	22.36	<=34.77	Pass
			25	24.10	0.90	22.85	<=34.77	Pass
			49	23.48	0.90	22.23	<=34.77	Pass
		25	0	22.87	0.90	21.62	<=34.77	Pass
			13	22.95	0.90	21.70	<=34.77	Pass
			25	22.78	0.90	21.53	<=34.77	Pass
		50	0	22.85	0.90	21.60	<=34.77	Pass
	711	1	0	23.24	0.90	21.99	<=34.77	Pass
			25	24.15	0.90	22.90	<=34.77	Pass
			49	23.44	0.90	22.19	<=34.77	Pass
		25	0	22.83	0.90	21.58	<=34.77	Pass
			13	22.97	0.90	21.72	<=34.77	Pass
			25	22.69	0.90	21.44	<=34.77	Pass
		50	0	22.85	0.90	21.60	<=34.77	Pass
16QAM	709	1	0	22.29	0.90	21.04	<=34.77	Pass
			25	22.80	0.90	21.55	<=34.77	Pass
			49	22.47	0.90	21.22	<=34.77	Pass
		25	0	21.75	0.90	20.50	<=34.77	Pass
			13	21.97	0.90	20.72	<=34.77	Pass
			25	21.98	0.90	20.73	<=34.77	Pass
		50	0	21.59	0.90	20.34	<=34.77	Pass
	710	1	0	22.33	0.90	21.08	<=34.77	Pass
			25	22.86	0.90	21.61	<=34.77	Pass
			49	22.34	0.90	21.09	<=34.77	Pass
		25	0	21.71	0.90	20.46	<=34.77	Pass
			13	21.89	0.90	20.64	<=34.77	Pass
			25	21.87	0.90	20.62	<=34.77	Pass
		50	0	21.58	0.90	20.33	<=34.77	Pass
	711	1	0	22.22	0.90	20.97	<=34.77	Pass
			25	22.83	0.90	21.58	<=34.77	Pass
			49	22.24	0.90	20.99	<=34.77	Pass
		25	0	21.76	0.90	20.51	<=34.77	Pass
			13	21.91	0.90	20.66	<=34.77	Pass
			25	21.32	0.90	20.07	<=34.77	Pass
		50	0	21.87	0.90	20.62	<=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	0.900	0.0013	-2.5 to 2.5	Pass
					NV	1.300	0.0018	-2.5 to 2.5	Pass
					HV	2.200	0.0031	-2.5 to 2.5	Pass
				-30	NV	2.100	0.0030	-2.5 to 2.5	Pass
				-20	NV	0.300	0.0004	-2.5 to 2.5	Pass
				-10	NV	-0.600	-0.0008	-2.5 to 2.5	Pass
				0	NV	1.800	0.0025	-2.5 to 2.5	Pass
				10	NV	2.300	0.0032	-2.5 to 2.5	Pass
				30	NV	1.500	0.0021	-2.5 to 2.5	Pass
				40	NV	1.000	0.0014	-2.5 to 2.5	Pass
				50	NV	1.000	0.0014	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band17_OBW

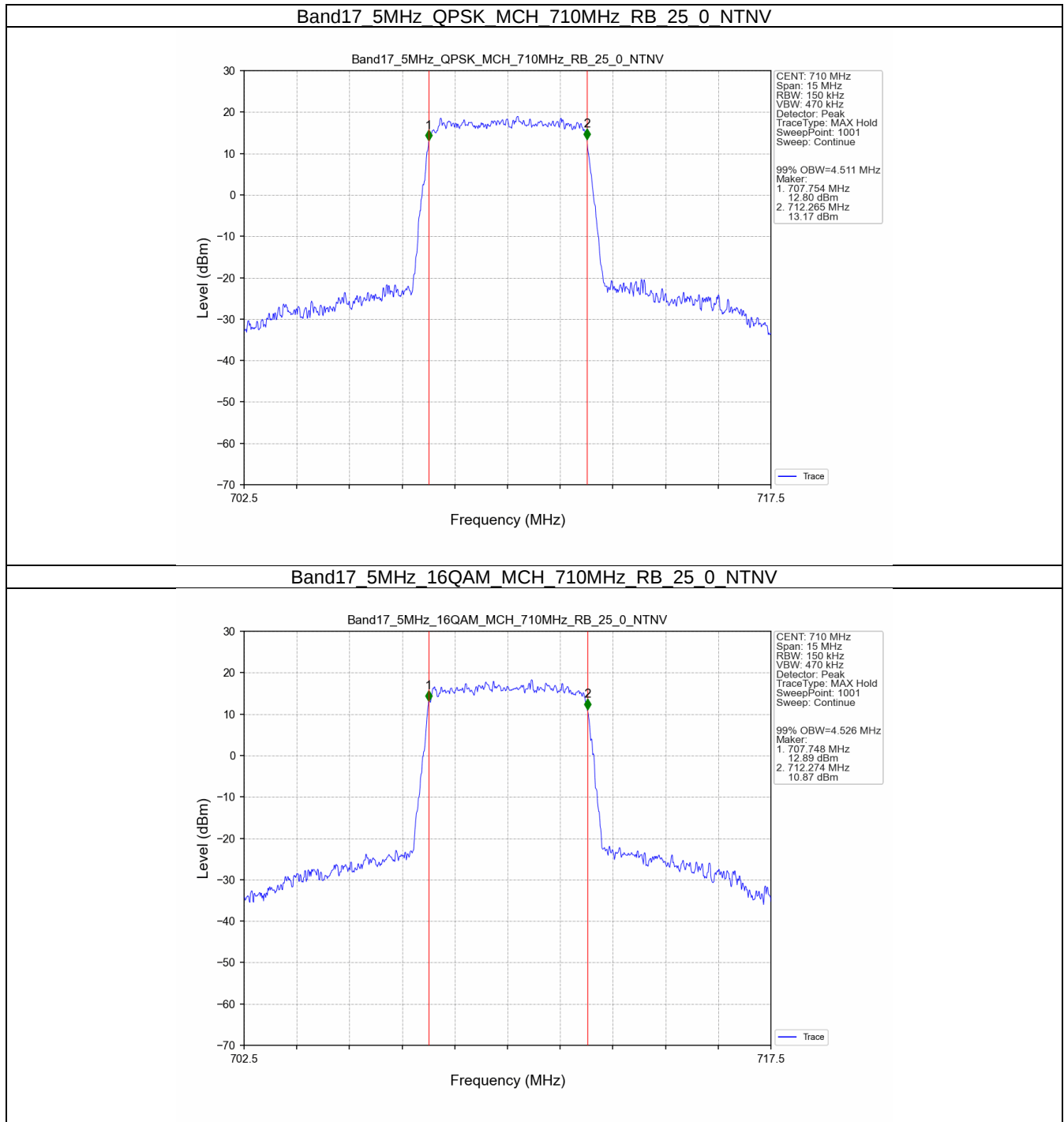
Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	710	25	0	4.511	/	Pass
	16QAM	710	25	0	4.526	/	Pass
10	QPSK	710	50	0	9.007	/	Pass
	16QAM	710	50	0	8.987	/	Pass

3.1.2 Band17_XDB

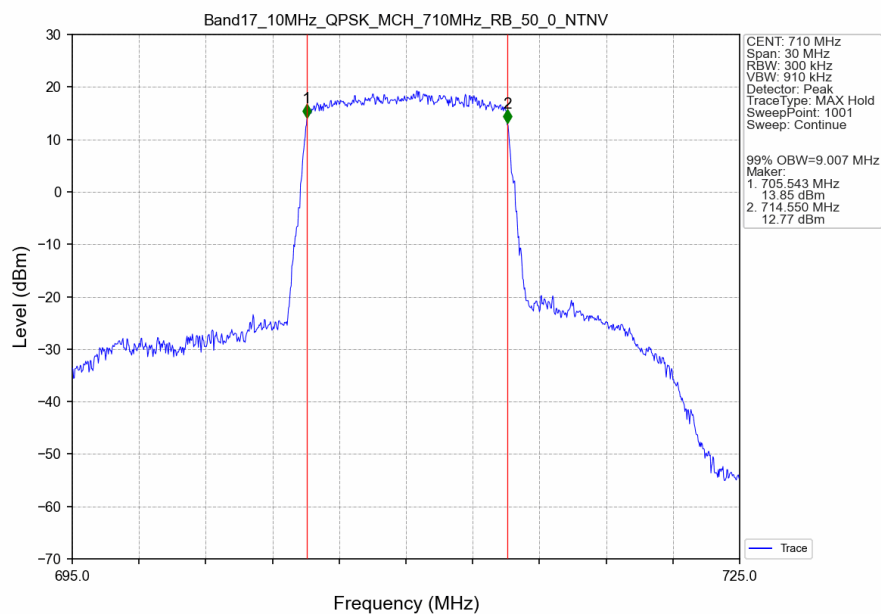
Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	710	25	0	5.081	/	Pass
	16QAM	710	25	0	4.994	/	Pass
10	QPSK	710	50	0	9.925	/	Pass
	16QAM	710	50	0	9.912	/	Pass

3.2 Test Graph

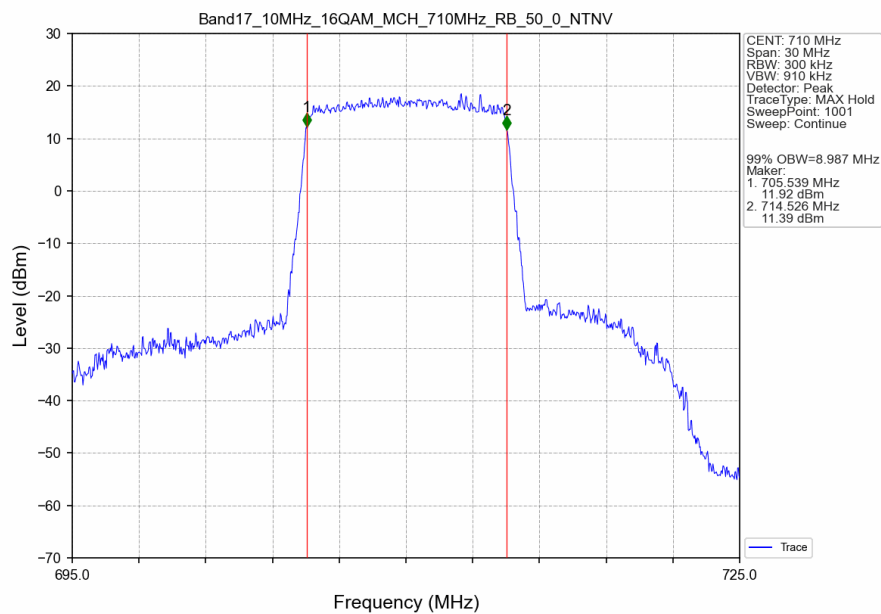
3.2.1 Band17_OBW



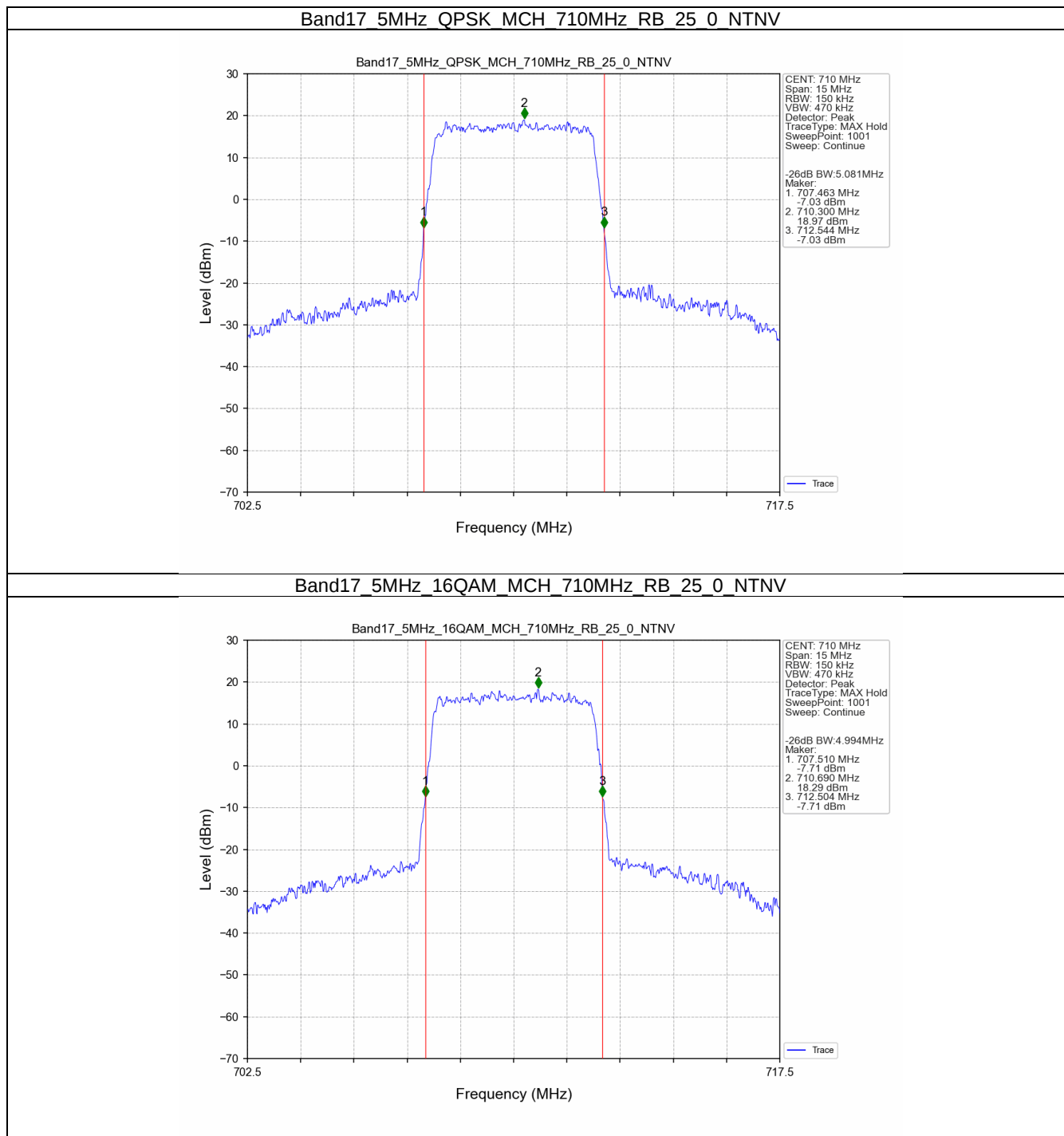
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



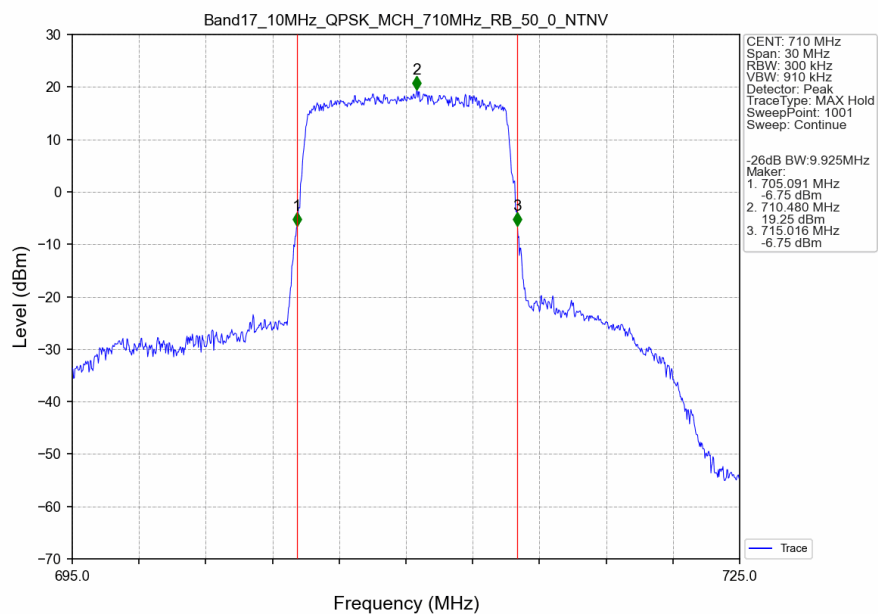
Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



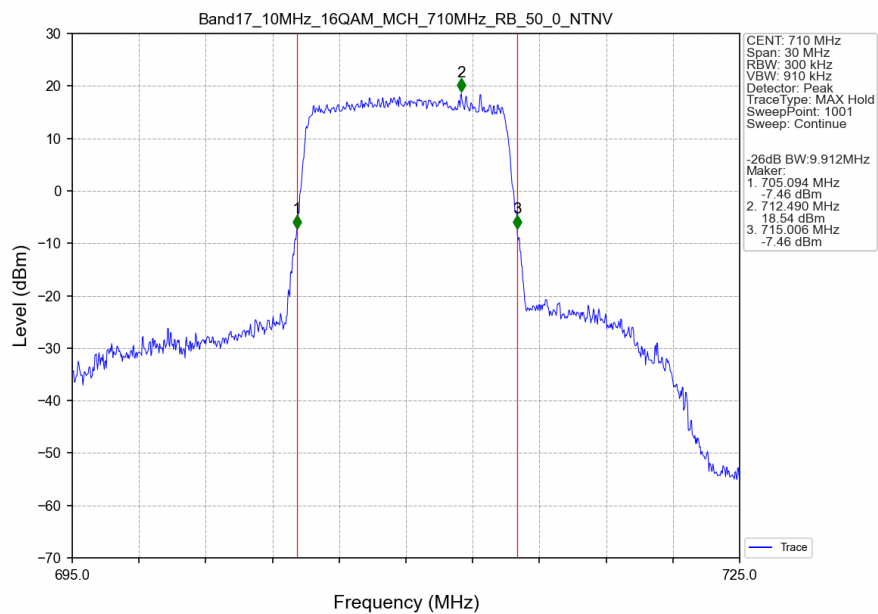
3.2.2 Band17_XDB



Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV





4. Peak-Average Ratio

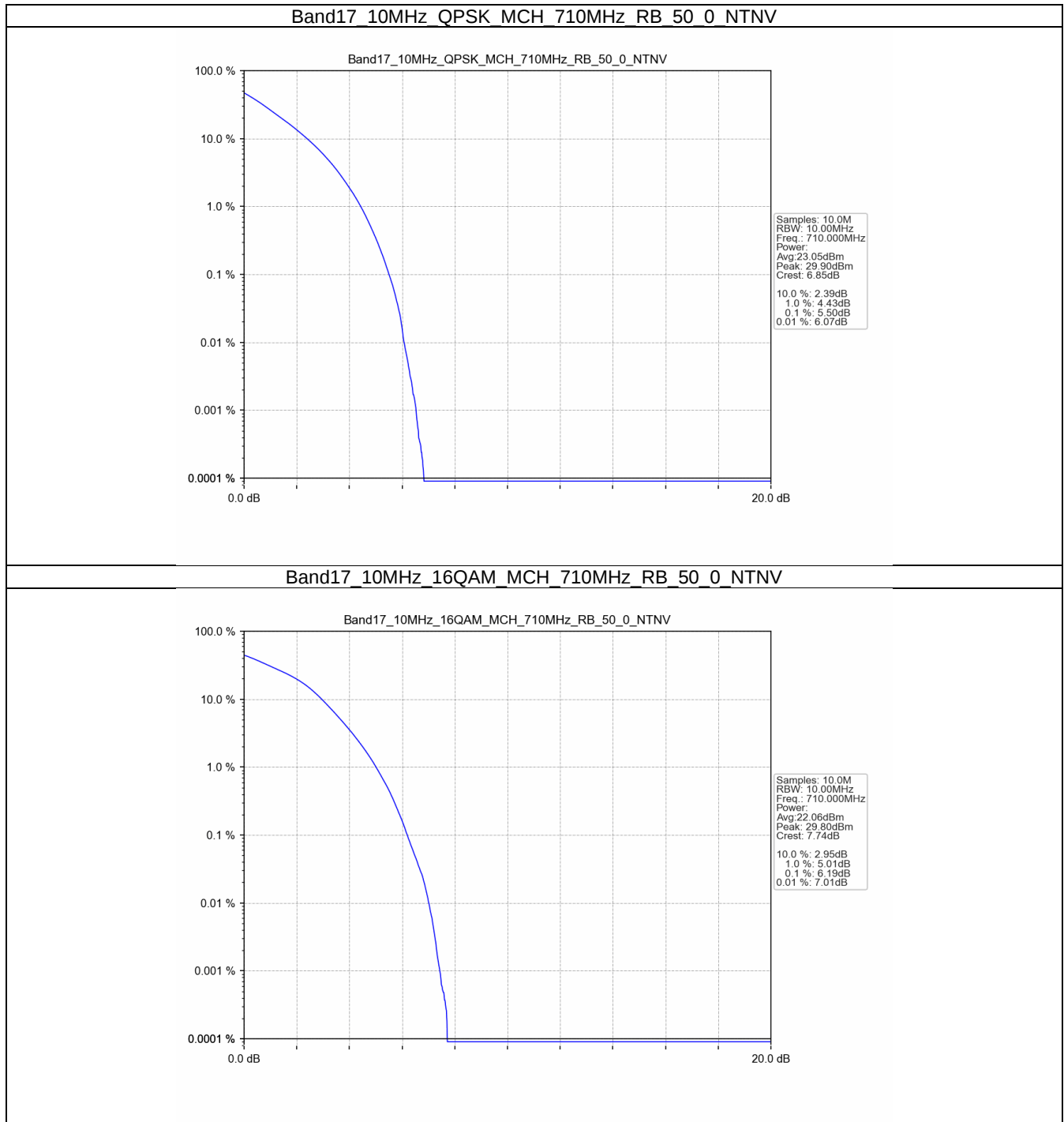
4.1 Test Result

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	5.50	<=13	Pass
16QAM	710	50	0	6.19	<=13	Pass

4.2 Test Graph

4.2.1 B17_10MHz



5. Spurious Emission

5.1 Test Result

5.1.1 B17_5MHz

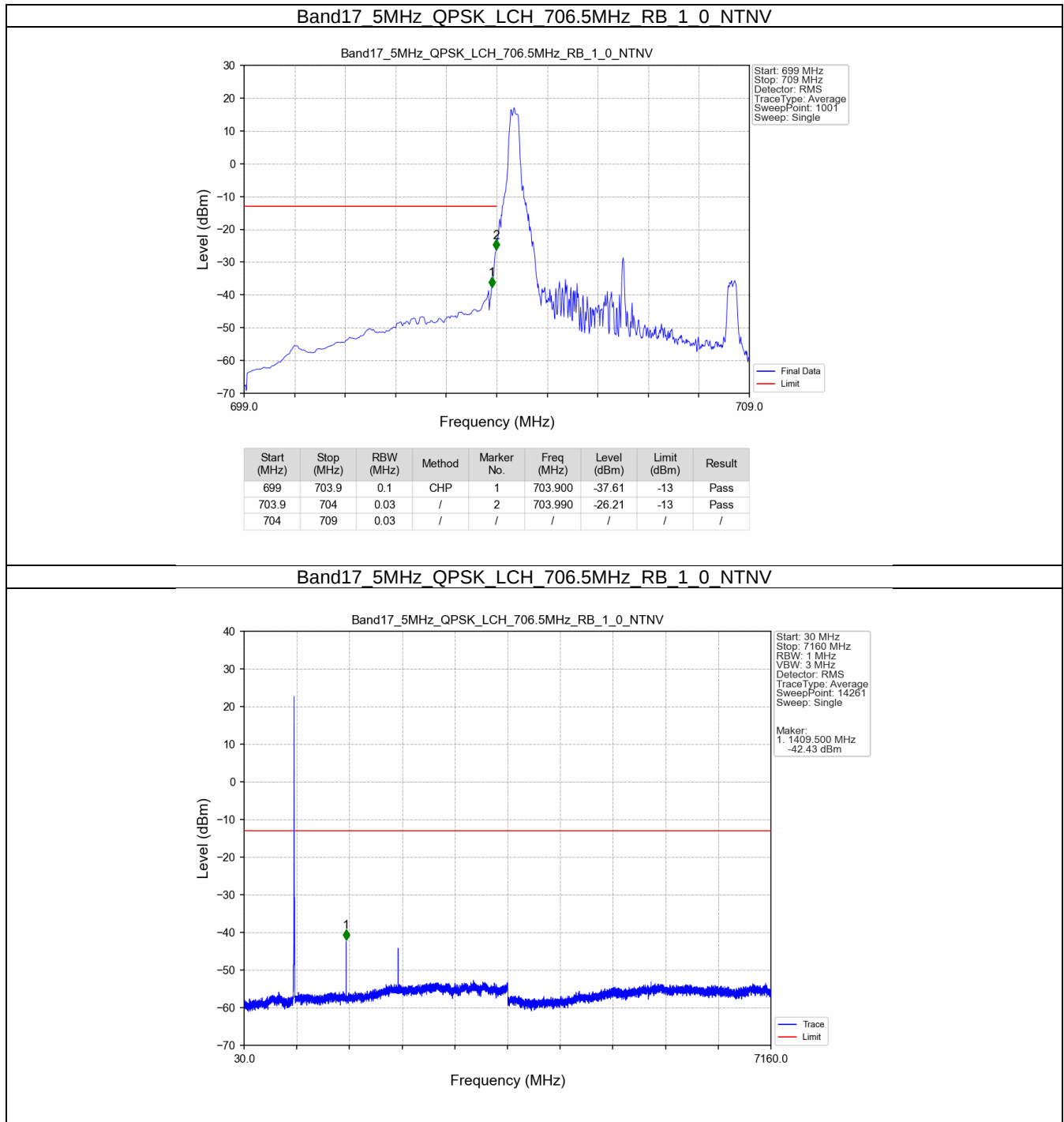
Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test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

5.1.2 B17_10MHz

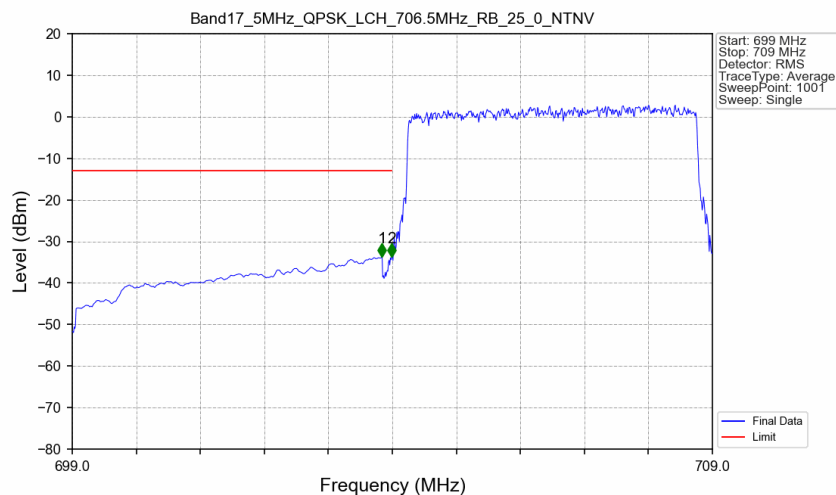
Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	709	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph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

5.2 Test Graph

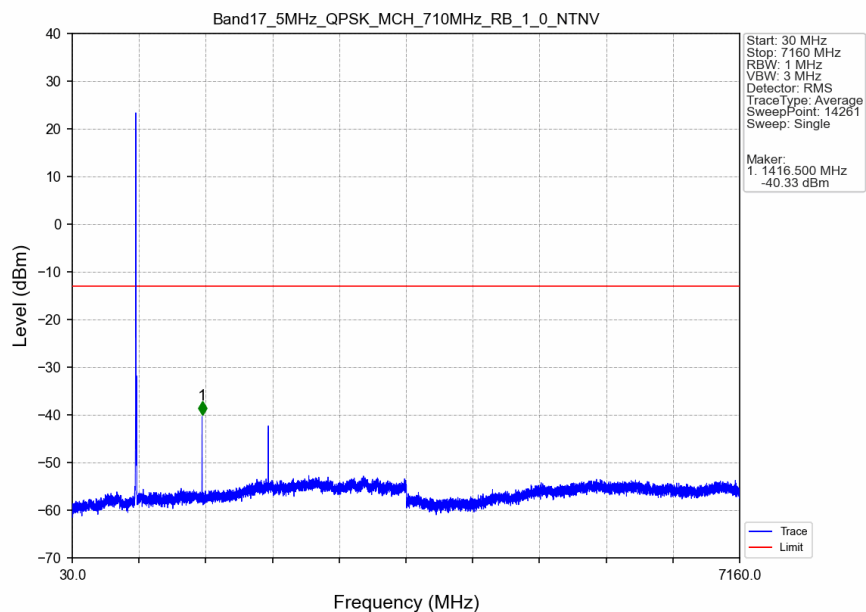
5.2.1 B17_5MHz



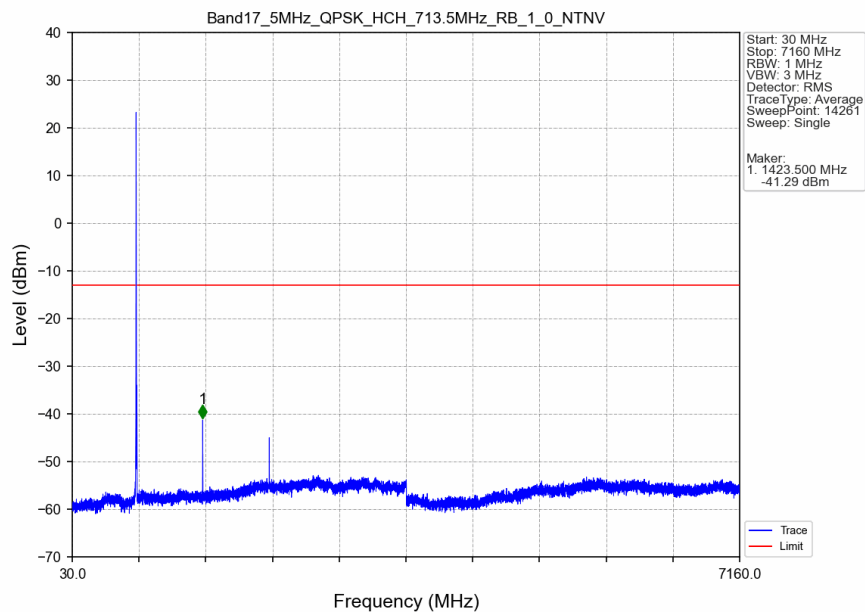
Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV



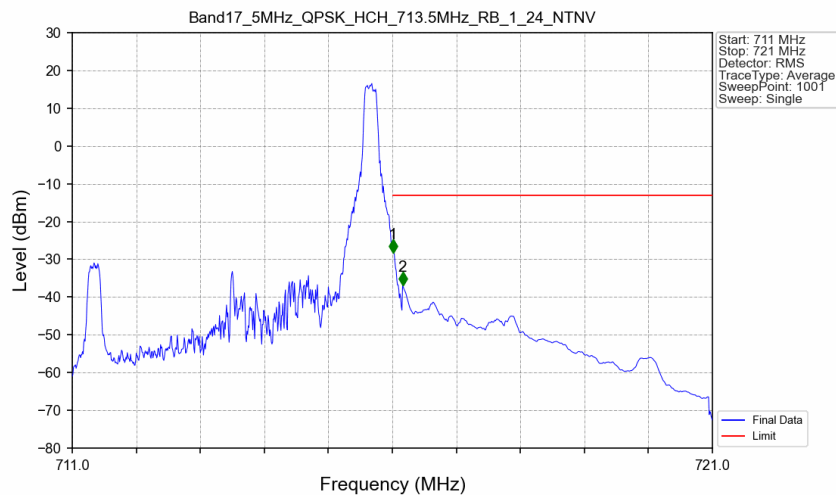
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

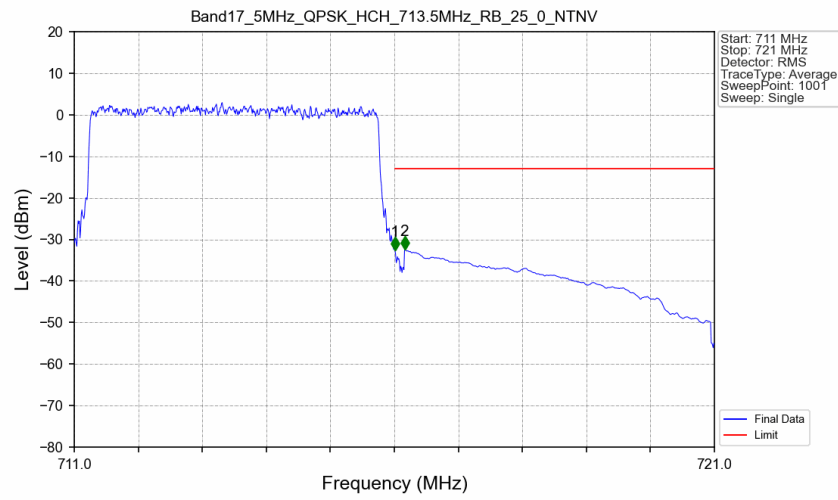


Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



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	716.010	-28.22	-13	Pass
716.1	721	0.1	CHP	2	716.160	-36.89	-13	Pass

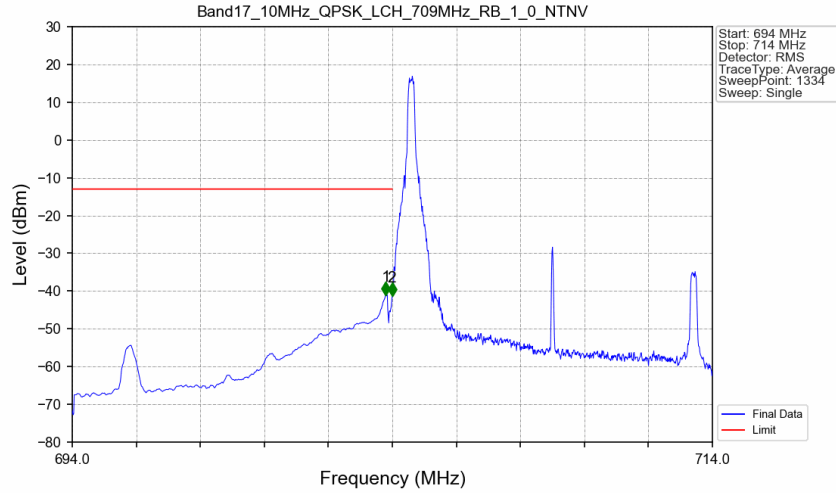
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



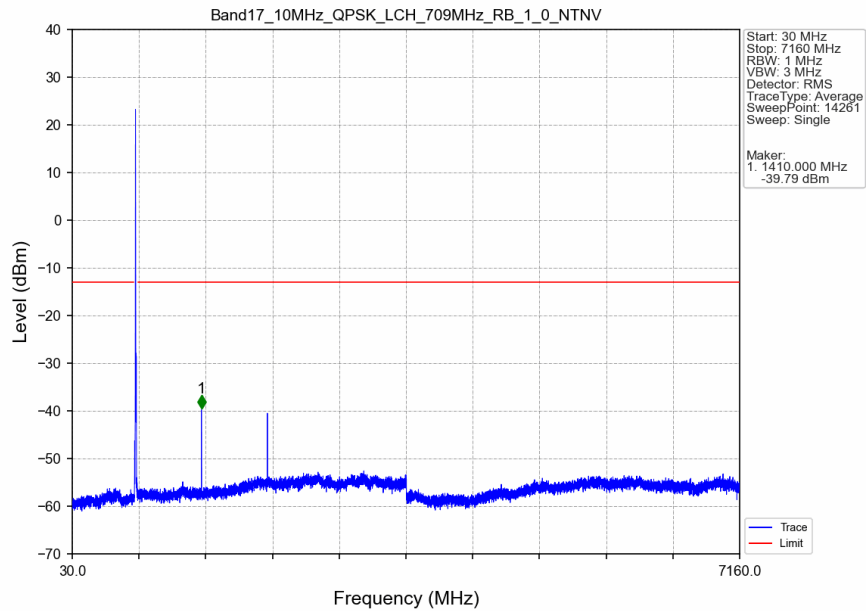
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-32.51	-13	Pass
716.1	721	0.1	CHP	2	716.160	-32.44	-13	Pass

5.2.2 B17_10MHz

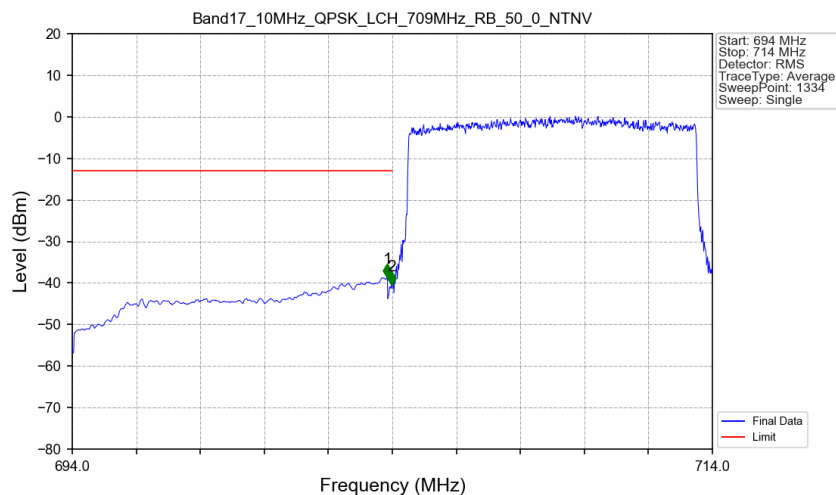
Band17 10MHz QPSK LCH 709MHz RB 1 0 NTN



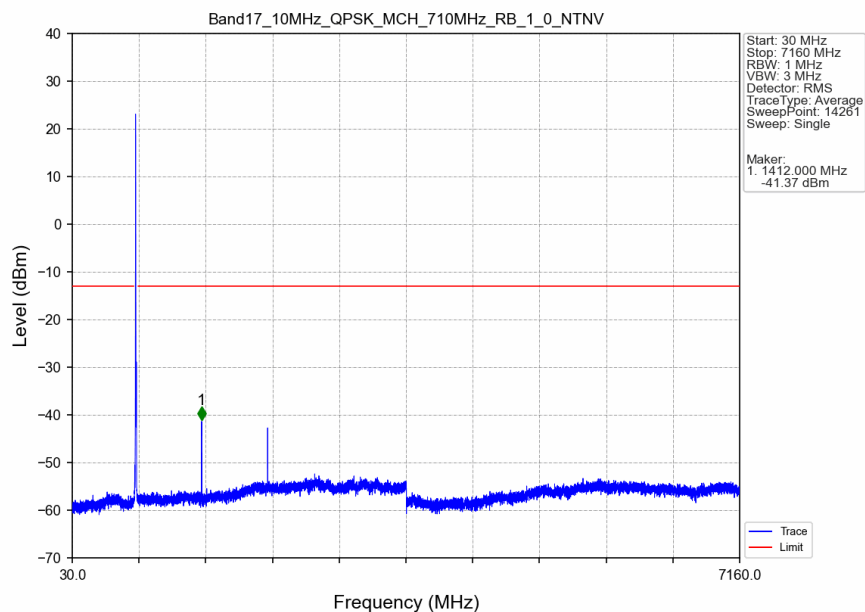
Band17 10MHz QPSK LCH 709MHz RB 1 0 NTN



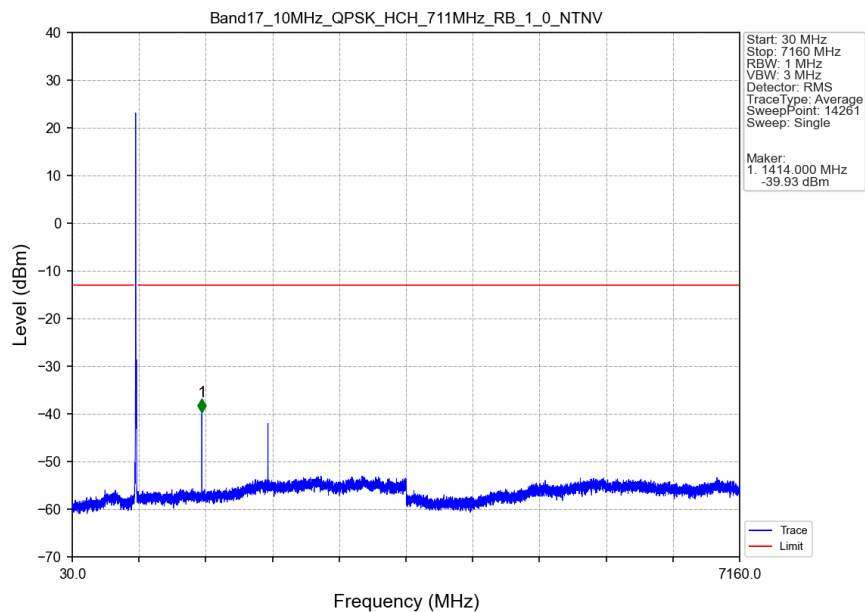
Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



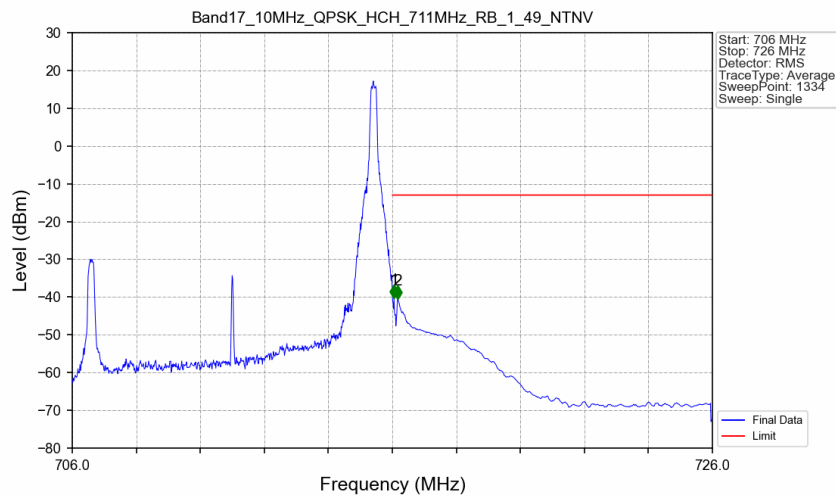
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

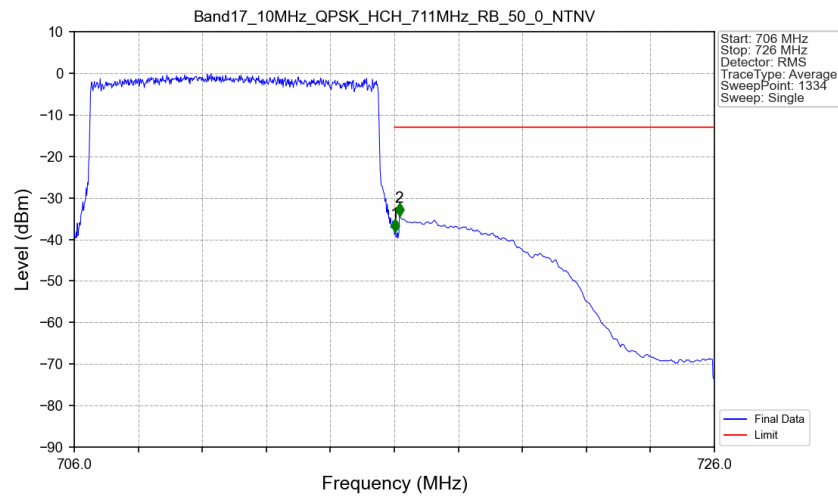


Band17_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



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	716.053	-40.34	-13	Pass
716.1	726	0.1	CHP	2	716.173	-40.52	-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	-38.19	-13	Pass
716.1	726	0.1	CHP	2	716.158	-34.44	-13	Pass