

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	24.36	-6.50	15.71	<=34.77	Pass
			13	24.29	-6.50	15.64	<=34.77	Pass
			24	24.31	-6.50	15.66	<=34.77	Pass
		12	0	23.29	-6.50	14.64	<=34.77	Pass
			6	23.27	-6.50	14.62	<=34.77	Pass
			13	23.29	-6.50	14.64	<=34.77	Pass
		25	0	23.32	-6.50	14.67	<=34.77	Pass
	710	1	0	24.29	-6.50	15.64	<=34.77	Pass
			13	24.25	-6.50	15.60	<=34.77	Pass
			24	24.33	-6.50	15.68	<=34.77	Pass
		12	0	23.22	-6.50	14.57	<=34.77	Pass
			6	23.22	-6.50	14.57	<=34.77	Pass
			13	23.24	-6.50	14.59	<=34.77	Pass
		25	0	23.28	-6.50	14.63	<=34.77	Pass
	713.5	1	0	24.28	-6.50	15.63	<=34.77	Pass
			13	24.32	-6.50	15.67	<=34.77	Pass
			24	24.33	-6.50	15.68	<=34.77	Pass
		12	0	23.31	-6.50	14.66	<=34.77	Pass
			6	23.29	-6.50	14.64	<=34.77	Pass
			13	23.25	-6.50	14.60	<=34.77	Pass
		25	0	23.34	-6.50	14.69	<=34.77	Pass
16QAM	706.5	1	0	23.18	-6.50	14.53	<=34.77	Pass
			13	23.13	-6.50	14.48	<=34.77	Pass
			24	23.15	-6.50	14.50	<=34.77	Pass
		12	0	22.35	-6.50	13.70	<=34.77	Pass
			6	22.35	-6.50	13.70	<=34.77	Pass
			13	22.36	-6.50	13.71	<=34.77	Pass
		25	0	22.38	-6.50	13.73	<=34.77	Pass
	710	1	0	23.36	-6.50	14.71	<=34.77	Pass
			13	23.35	-6.50	14.70	<=34.77	Pass
			24	23.40	-6.50	14.75	<=34.77	Pass
		12	0	22.24	-6.50	13.59	<=34.77	Pass
			6	22.29	-6.50	13.64	<=34.77	Pass
			13	22.28	-6.50	13.63	<=34.77	Pass
		25	0	22.26	-6.50	13.61	<=34.77	Pass
	713.5	1	0	23.72	-6.50	15.07	<=34.77	Pass
			13	23.73	-6.50	15.08	<=34.77	Pass
			24	23.71	-6.50	15.06	<=34.77	Pass
		12	0	22.33	-6.50	13.68	<=34.77	Pass
			6	22.30	-6.50	13.65	<=34.77	Pass
			13	22.28	-6.50	13.63	<=34.77	Pass
		25	0	22.29	-6.50	13.64	<=34.77	Pass
64QAM	706.5	1	0	22.44	-6.50	13.79	<=34.77	Pass
			13	22.39	-6.50	13.74	<=34.77	Pass
			24	22.44	-6.50	13.79	<=34.77	Pass
		12	0	21.34	-6.50	12.69	<=34.77	Pass
			6	21.30	-6.50	12.65	<=34.77	Pass
			13	21.32	-6.50	12.67	<=34.77	Pass
		25	0	21.37	-6.50	12.72	<=34.77	Pass
	710	1	0	22.53	-6.50	13.88	<=34.77	Pass
			13	22.50	-6.50	13.85	<=34.77	Pass
			24	22.55	-6.50	13.90	<=34.77	Pass
		12	0	21.28	-6.50	12.63	<=34.77	Pass
			6	21.31	-6.50	12.66	<=34.77	Pass

			13	21.32	-6.50	12.67	<=34.77	Pass
		25	0	21.30	-6.50	12.65	<=34.77	Pass
	713.5	1	0	22.42	-6.50	13.77	<=34.77	Pass
			13	22.45	-6.50	13.80	<=34.77	Pass
			24	22.46	-6.50	13.81	<=34.77	Pass
		12	0	21.25	-6.50	12.60	<=34.77	Pass
			6	21.25	-6.50	12.60	<=34.77	Pass
			13	21.18	-6.50	12.53	<=34.77	Pass
		25	0	21.20	-6.50	12.55	<=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	-6.50	15.59	<=34.77	Pass
			25	24.17	-6.50	15.52	<=34.77	Pass
			49	24.25	-6.50	15.60	<=34.77	Pass
		25	0	23.21	-6.50	14.56	<=34.77	Pass
			13	23.18	-6.50	14.53	<=34.77	Pass
			25	23.22	-6.50	14.57	<=34.77	Pass
		50	0	23.22	-6.50	14.57	<=34.77	Pass
	710	1	0	24.33	-6.50	15.68	<=34.77	Pass
			25	24.23	-6.50	15.58	<=34.77	Pass
			49	24.33	-6.50	15.68	<=34.77	Pass
		25	0	23.21	-6.50	14.56	<=34.77	Pass
			13	23.22	-6.50	14.57	<=34.77	Pass
			25	23.24	-6.50	14.59	<=34.77	Pass
		50	0	23.22	-6.50	14.57	<=34.77	Pass
	711	1	0	24.34	-6.50	15.69	<=34.77	Pass
			25	24.22	-6.50	15.57	<=34.77	Pass
			49	24.33	-6.50	15.68	<=34.77	Pass
		25	0	23.20	-6.50	14.55	<=34.77	Pass
			13	23.22	-6.50	14.57	<=34.77	Pass
			25	23.22	-6.50	14.57	<=34.77	Pass
		50	0	23.23	-6.50	14.58	<=34.77	Pass
16QAM	709	1	0	23.25	-6.50	14.60	<=34.77	Pass
			25	23.21	-6.50	14.56	<=34.77	Pass
			49	23.28	-6.50	14.63	<=34.77	Pass
		25	0	22.23	-6.50	13.58	<=34.77	Pass
			13	22.22	-6.50	13.57	<=34.77	Pass
			25	22.23	-6.50	13.58	<=34.77	Pass
		50	0	22.21	-6.50	13.56	<=34.77	Pass
	710	1	0	23.20	-6.50	14.55	<=34.77	Pass
			25	23.13	-6.50	14.48	<=34.77	Pass
			49	23.21	-6.50	14.56	<=34.77	Pass
		25	0	22.23	-6.50	13.58	<=34.77	Pass
			13	22.25	-6.50	13.60	<=34.77	Pass
			25	22.27	-6.50	13.62	<=34.77	Pass
		50	0	22.22	-6.50	13.57	<=34.77	Pass
	711	1	0	23.65	-6.50	15.00	<=34.77	Pass
			25	23.54	-6.50	14.89	<=34.77	Pass
			49	23.68	-6.50	15.03	<=34.77	Pass
		25	0	22.15	-6.50	13.50	<=34.77	Pass
			13	22.22	-6.50	13.57	<=34.77	Pass
			25	22.24	-6.50	13.59	<=34.77	Pass
		50	0	22.23	-6.50	13.58	<=34.77	Pass
64QAM	709	1	0	22.13	-6.50	13.48	<=34.77	Pass
			25	22.09	-6.50	13.44	<=34.77	Pass
			49	22.17	-6.50	13.52	<=34.77	Pass
		25	0	21.16	-6.50	12.51	<=34.77	Pass

		50	13	21.15	-6.50	12.50	<=34.77	Pass	
			25	21.17	-6.50	12.52	<=34.77	Pass	
			0	21.22	-6.50	12.57	<=34.77	Pass	
	710	1	0	22.66	-6.50	14.01	<=34.77	Pass	
			25	22.60	-6.50	13.95	<=34.77	Pass	
			49	22.71	-6.50	14.06	<=34.77	Pass	
		25	0	21.21	-6.50	12.56	<=34.77	Pass	
			13	21.23	-6.50	12.58	<=34.77	Pass	
			25	21.25	-6.50	12.60	<=34.77	Pass	
		50	0	21.22	-6.50	12.57	<=34.77	Pass	
		711	1	0	22.40	-6.50	13.75	<=34.77	Pass
				25	22.33	-6.50	13.68	<=34.77	Pass
	49			22.43	-6.50	13.78	<=34.77	Pass	
	25		0	21.22	-6.50	12.57	<=34.77	Pass	
			13	21.24	-6.50	12.59	<=34.77	Pass	
			25	21.23	-6.50	12.58	<=34.77	Pass	
	50		0	21.16	-6.50	12.51	<=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	-5.022	-0.0071	-2.5 to 2.5	Pass
					NV	-3.138	-0.0044	-2.5 to 2.5	Pass
					HV	-0.225	-0.0003	-2.5 to 2.5	Pass
				-30	NV	-0.642	-0.0009	-2.5 to 2.5	Pass
				-20	NV	-4.892	-0.0069	-2.5 to 2.5	Pass
				-10	NV	-3.235	-0.0046	-2.5 to 2.5	Pass
				0	NV	-3.127	-0.0044	-2.5 to 2.5	Pass
				10	NV	-3.745	-0.0053	-2.5 to 2.5	Pass
				30	NV	-5.819	-0.0082	-2.5 to 2.5	Pass
				40	NV	-2.221	-0.0031	-2.5 to 2.5	Pass
				50	NV	-2.582	-0.0036	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band17_OBW

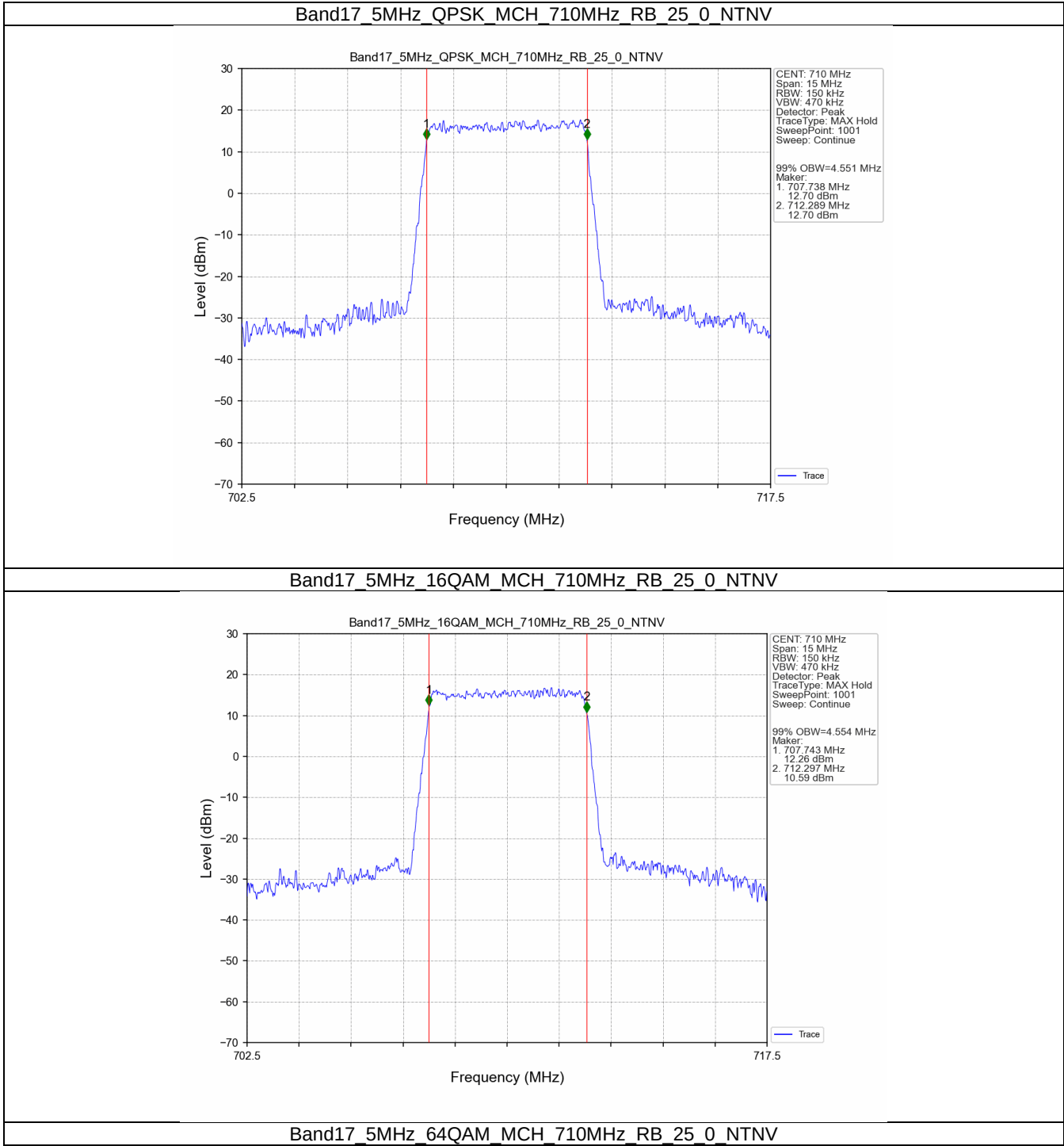
Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	710	25	0	4.551	/	Pass
	16QAM	710	25	0	4.554	/	Pass
	64QAM	710	25	0	4.551	/	Pass
10	QPSK	710	50	0	9.046	/	Pass
	16QAM	710	50	0	9.048	/	Pass
	64QAM	710	50	0	9.059	/	Pass

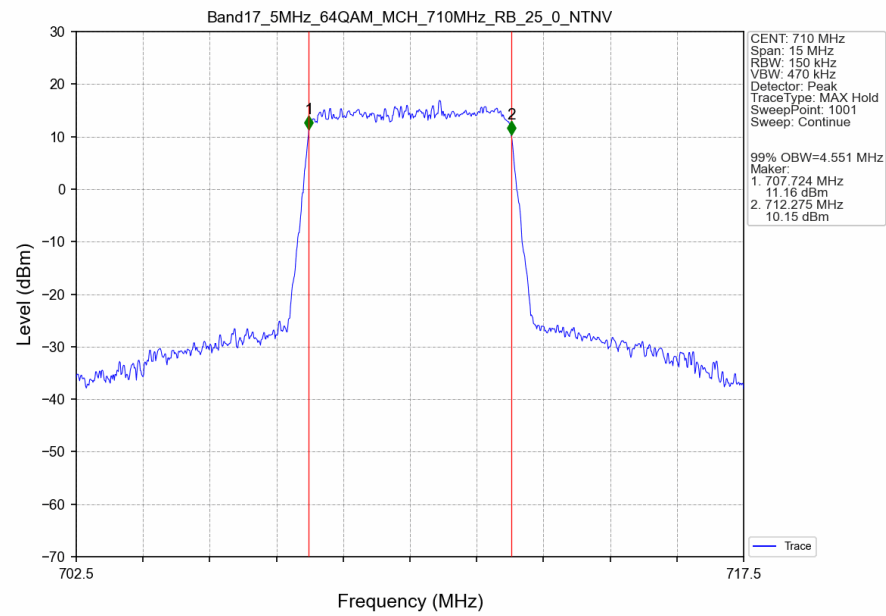
3.1.2 Band17_XDB

Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	710	25	0	5.094	/	Pass
	16QAM	710	25	0	5.087	/	Pass
	64QAM	710	25	0	5.034	/	Pass
10	QPSK	710	50	0	9.980	/	Pass
	16QAM	710	50	0	9.979	/	Pass
	64QAM	710	50	0	9.936	/	Pass

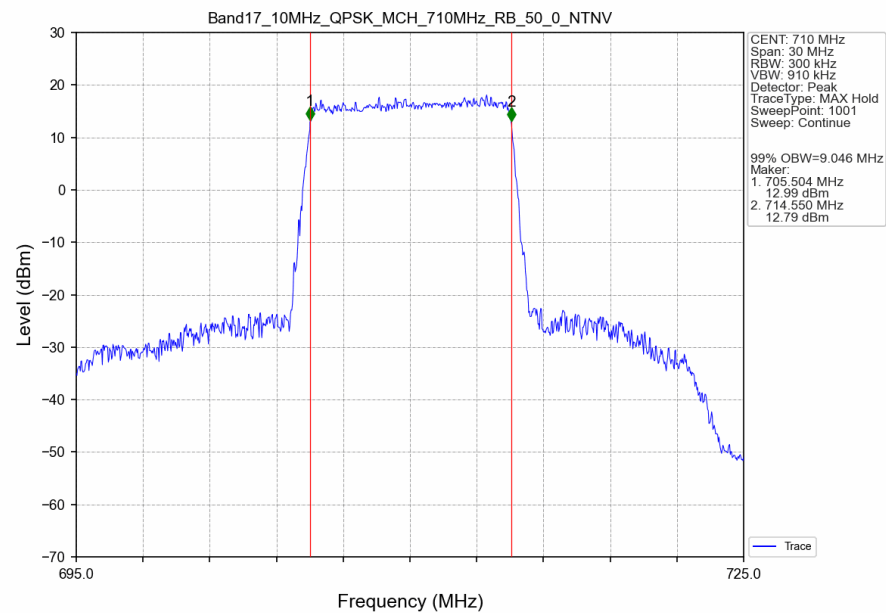
3.2 Test Graph

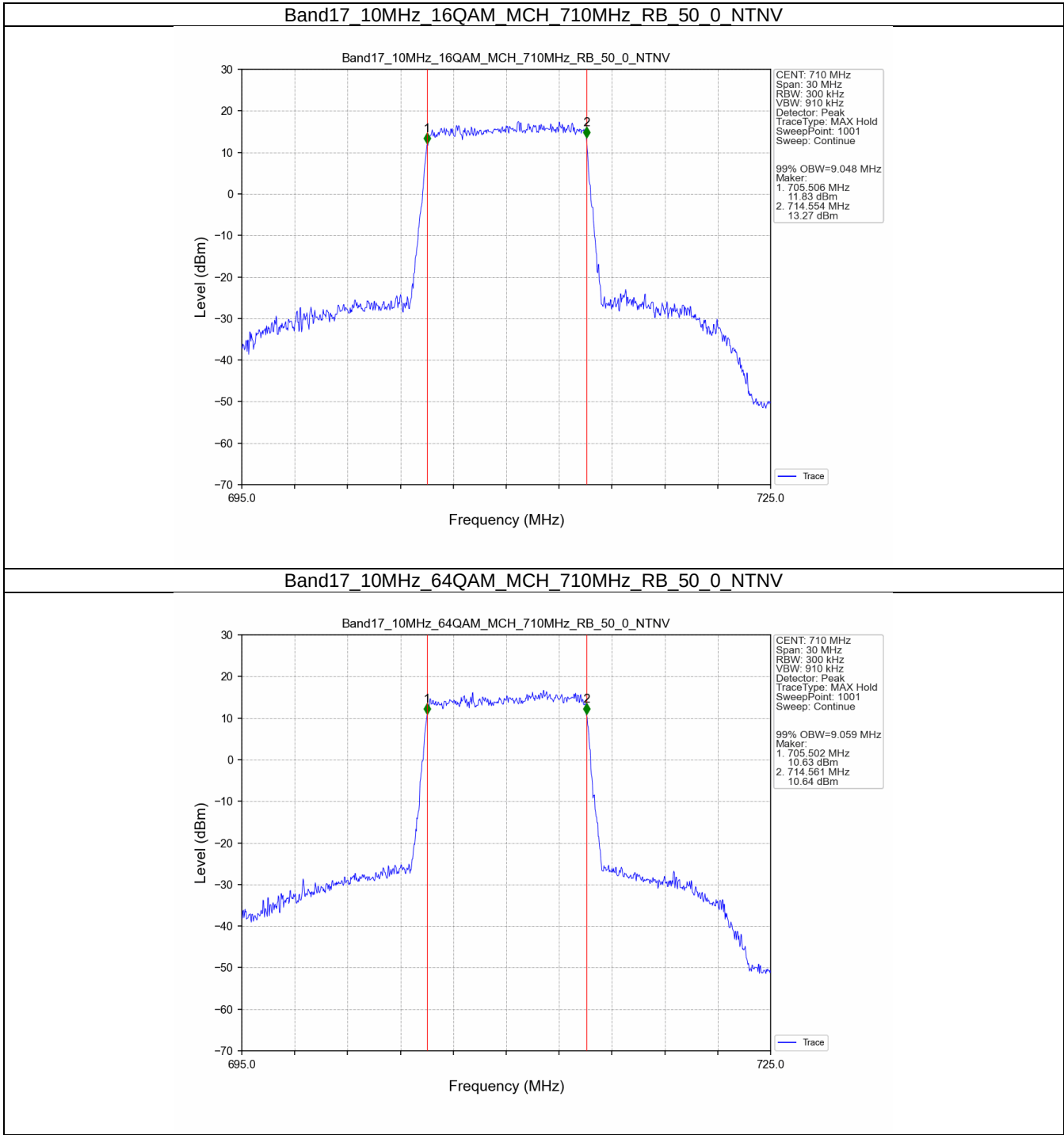
3.2.1 Band17_OBW



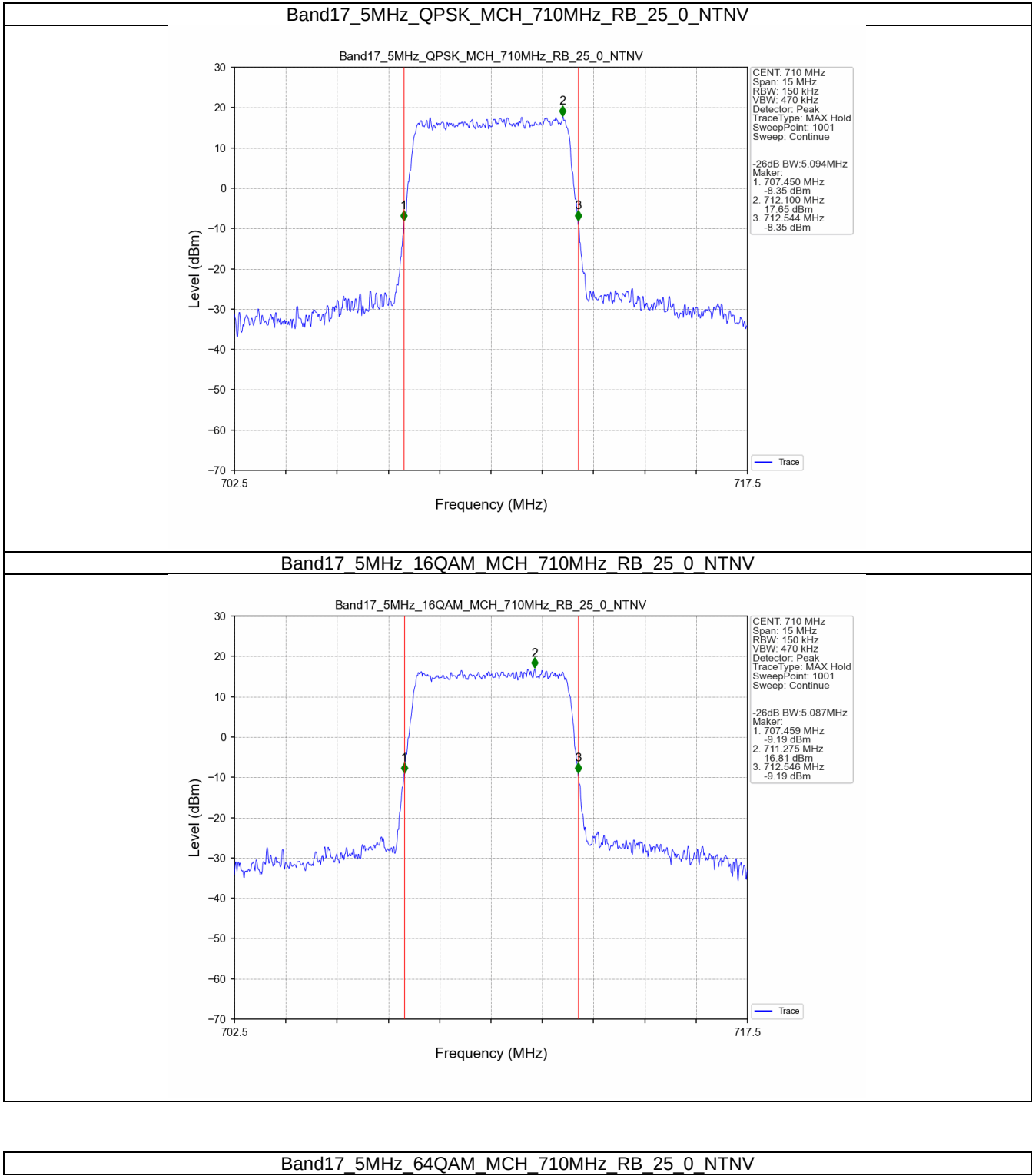


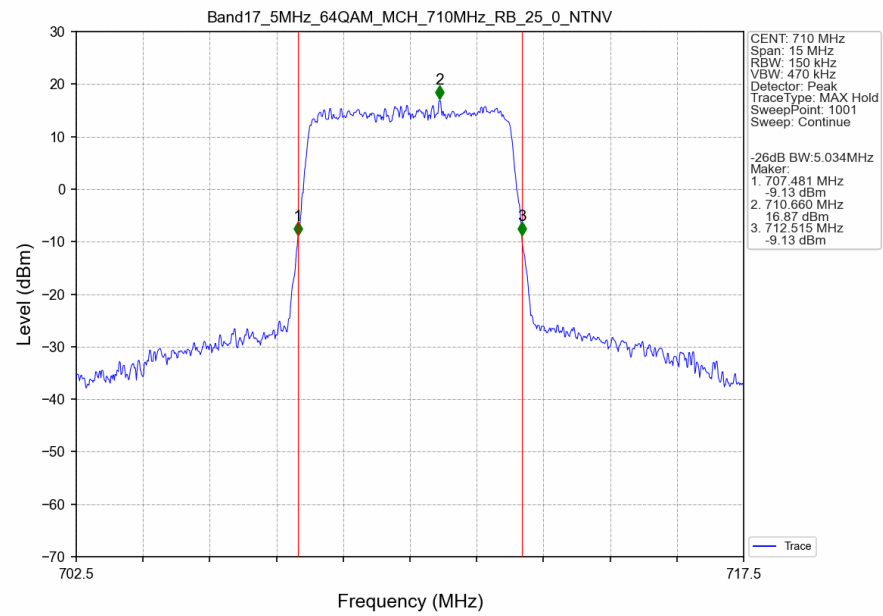
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



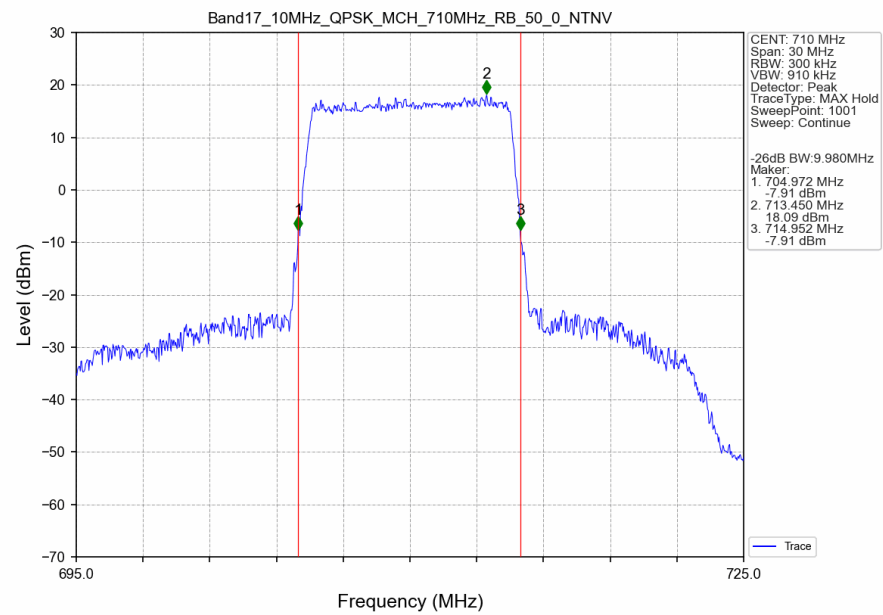


3.2.2 Band17_XDB

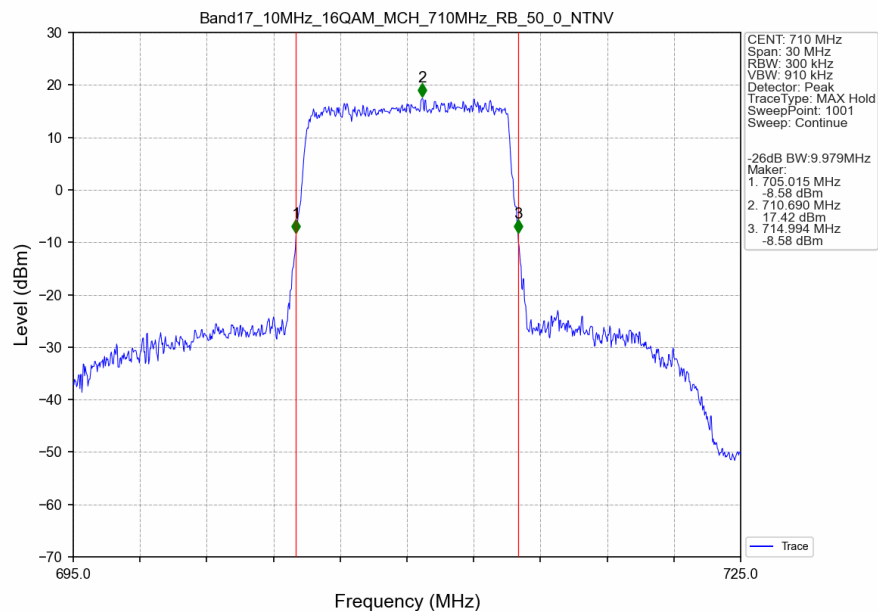




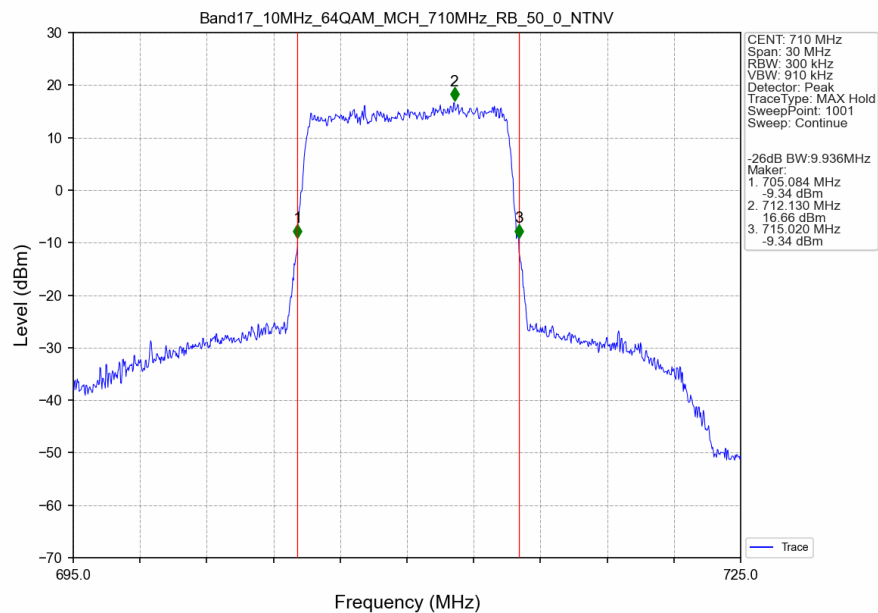
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_64QAM_MCH_710MHz_RB_50_0_NTNV



4. Peak-Average Ratio

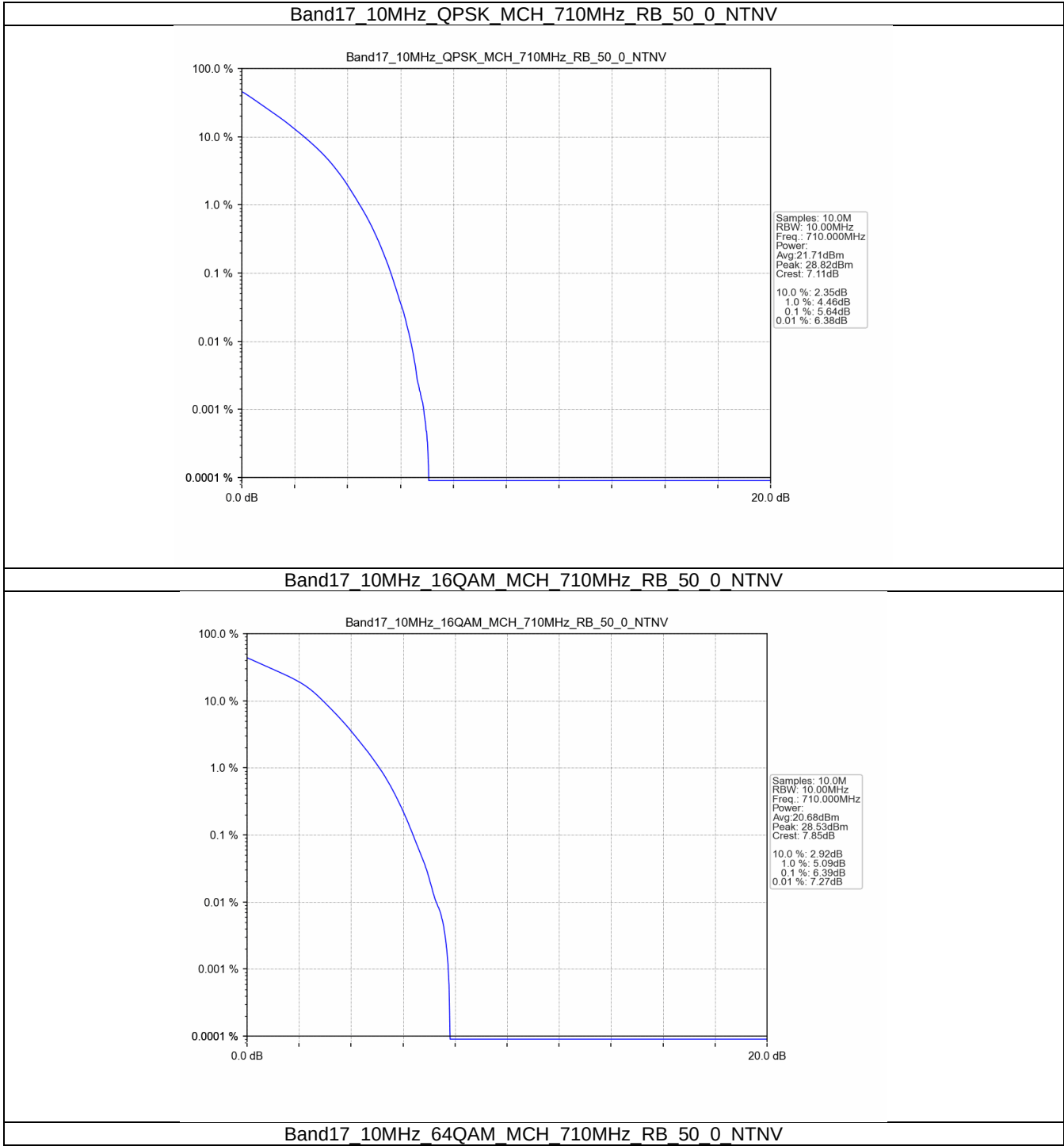
4.1 Test Result

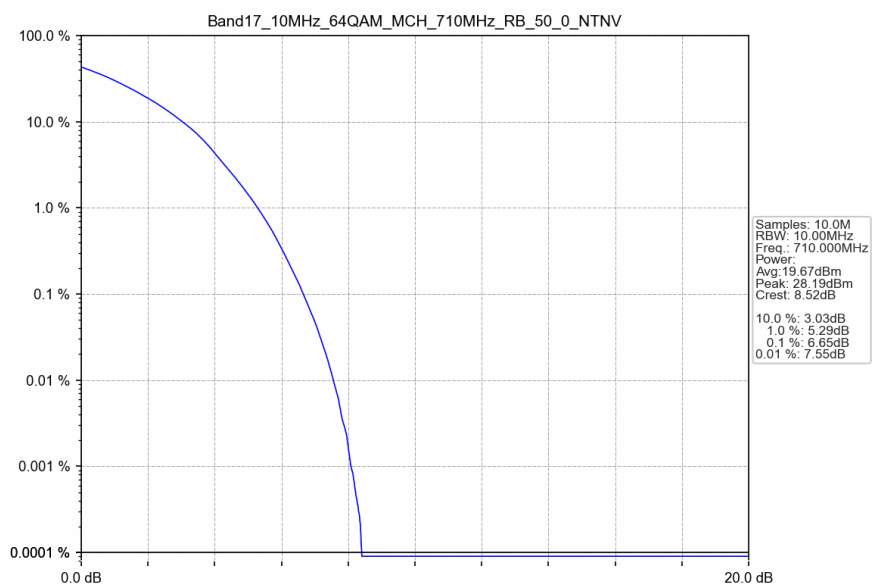
4.1.1 B17_10MHz

Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	710	50	0	5.64	<=13	Pass
16QAM	710	50	0	6.39	<=13	Pass
64QAM	710	50	0	6.65	<=13	Pass

4.2 Test Graph

4.2.1 B17_10MHz





5. Spurious Emission

5.1 Test Result

5.1.1 B17_5MHz

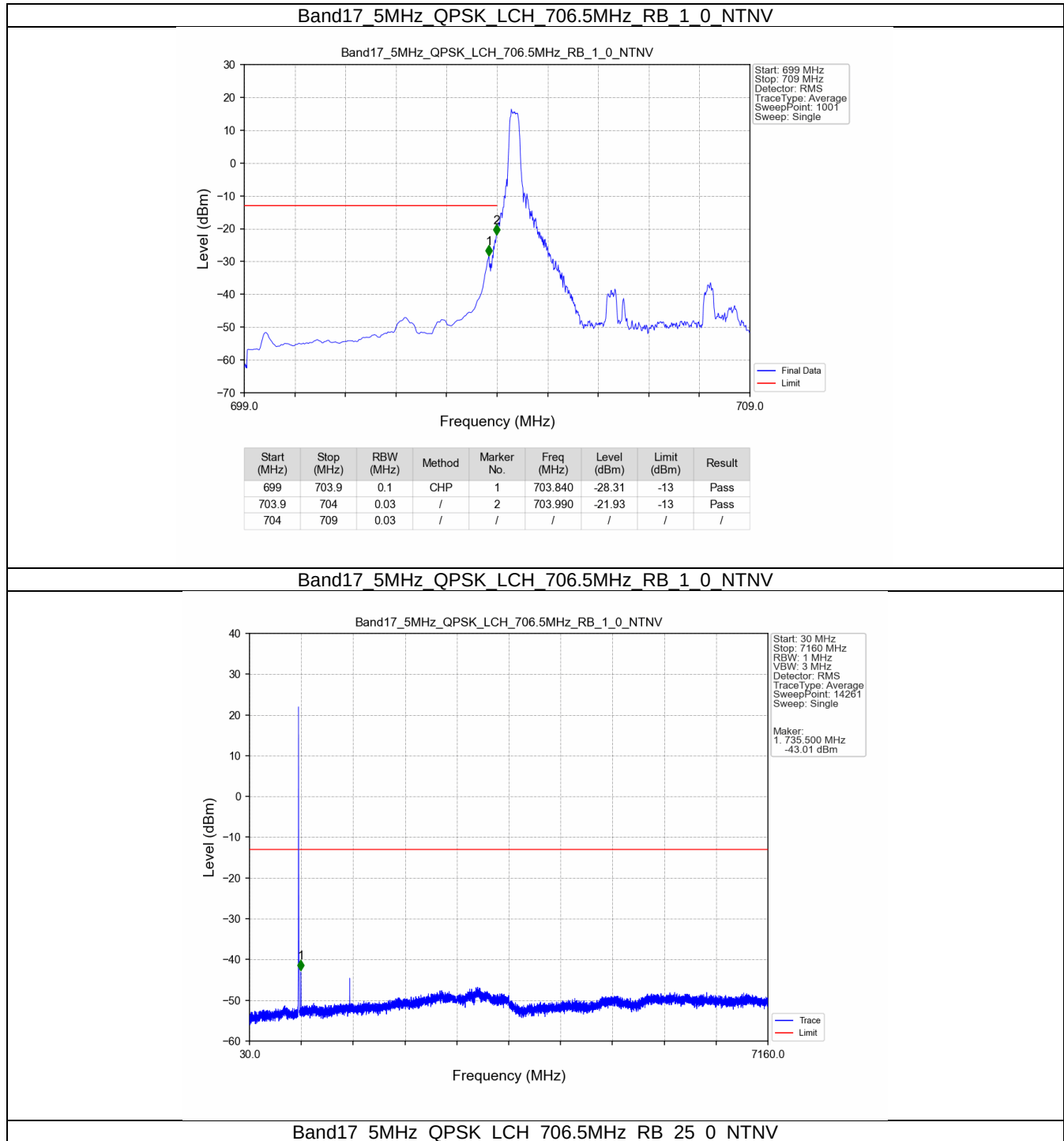
Band: 17 / Bandwidth: 5MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test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

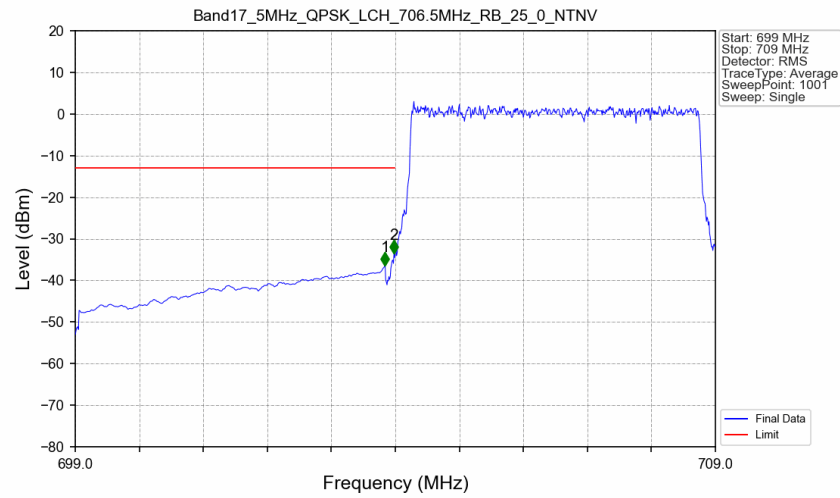
5.1.2 B17_10MHz

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

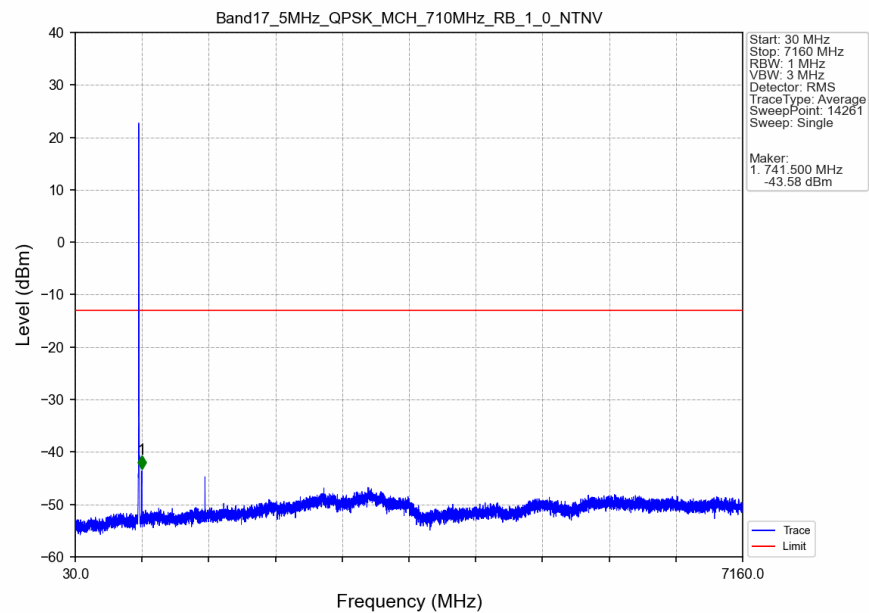
5.2.1 B17_5MHz



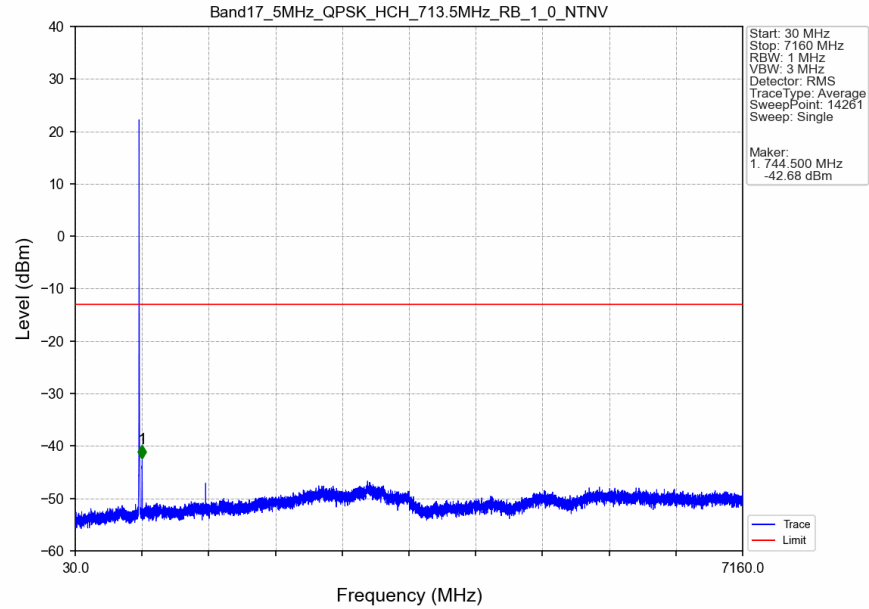


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-36.38	-13	Pass
703.9	704	0.03	/	2	703.980	-33.54	-13	Pass
704	709	0.03	/	/	/	/	/	/

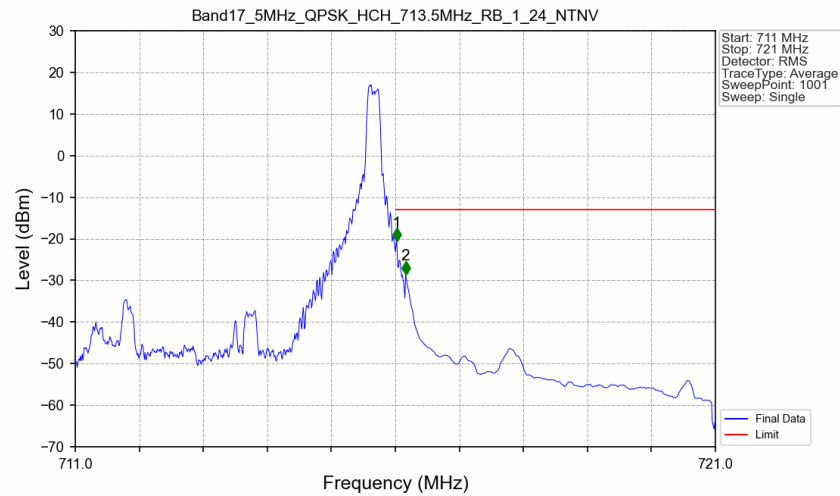
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

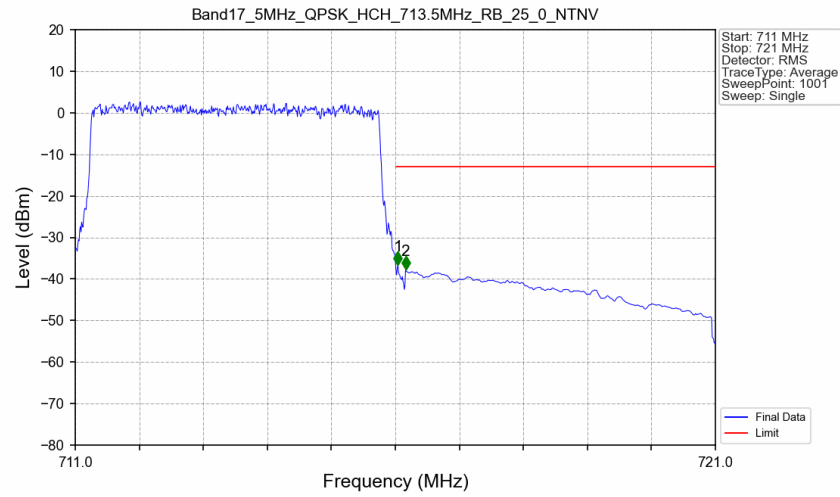


Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



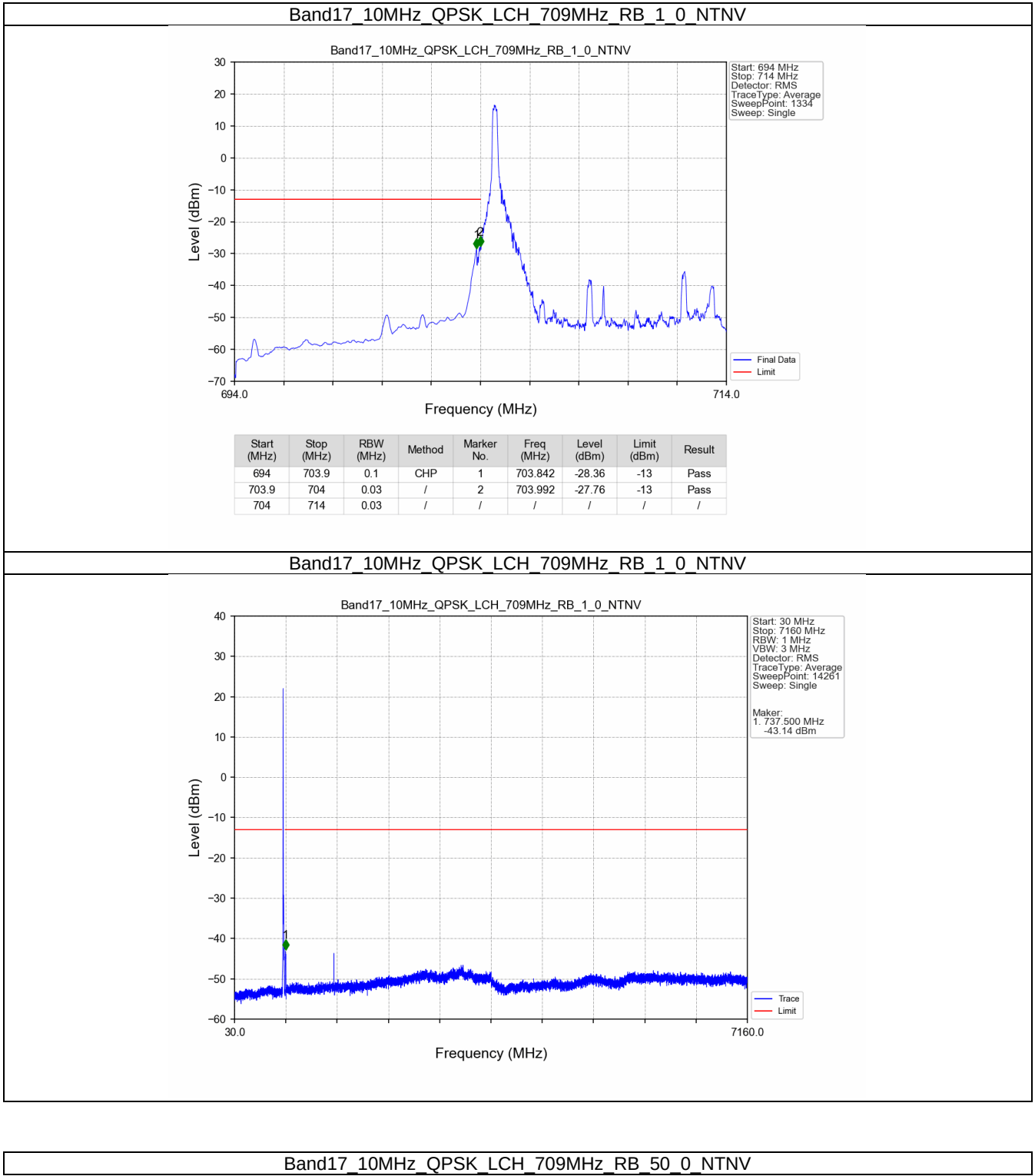
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.020	-20.61	-13	Pass
716.1	721	0.1	CHP	2	716.160	-28.51	-13	Pass

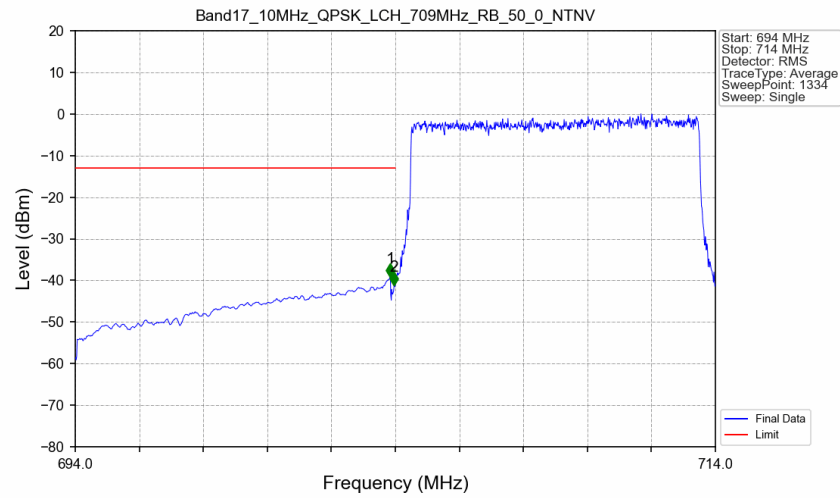
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



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	716.040	-36.63	-13	Pass
716.1	721	0.1	CHP	2	716.160	-37.72	-13	Pass

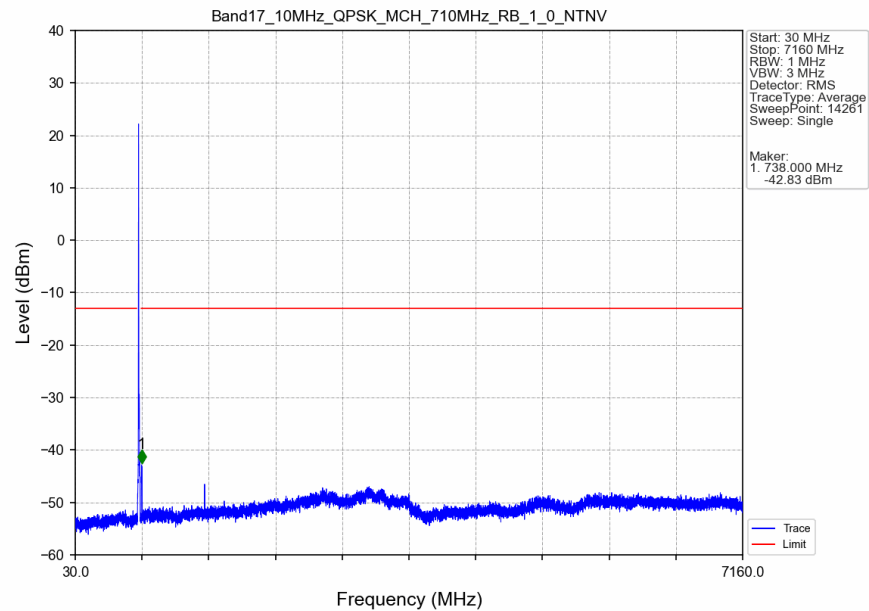
5.2.2 B17_10MHz



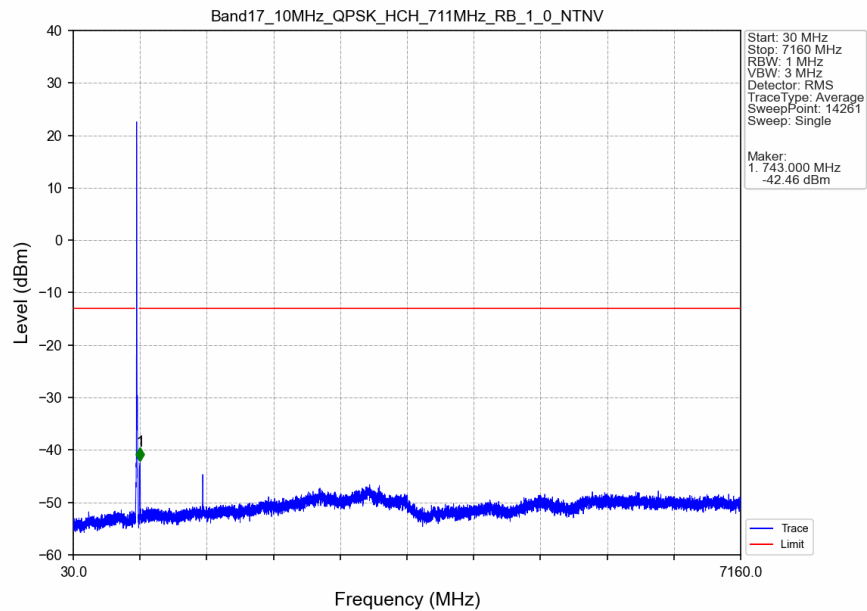


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-39.08	-13	Pass
703.9	704	0.03	/	2	703.962	-41.17	-13	Pass
704	714	0.03	/	/	/	/	/	/

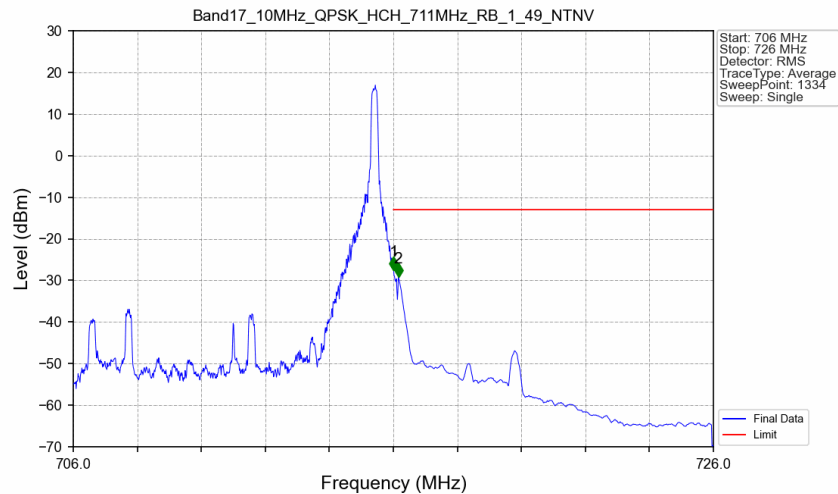
Band17 10MHz QPSK MCH 710MHz RB 1 0 NTNv



Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

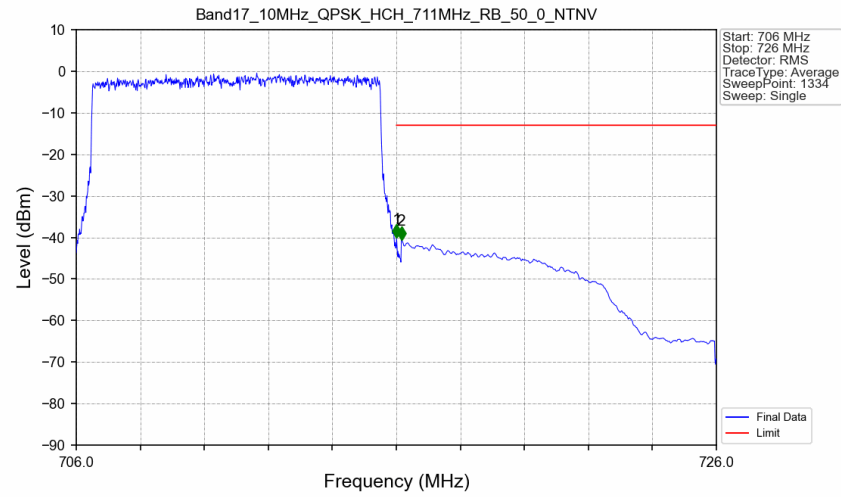


Band17_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



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	-27.45	-13	Pass
716.1	726	0.1	CHP	2	716.158	-29.21	-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	-40.12	-13	Pass
716.1	726	0.1	CHP	2	716.158	-40.49	-13	Pass