

**Appendix A.12****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	22.96	-1.26	19.55	<=34.77	Pass
			13	23.14	-1.26	19.73	<=34.77	Pass
			24	22.68	-1.26	19.27	<=34.77	Pass
		12	0	22.02	-1.26	18.61	<=34.77	Pass
			6	21.91	-1.26	18.50	<=34.77	Pass
			13	21.78	-1.26	18.37	<=34.77	Pass
		25	0	21.88	-1.26	18.47	<=34.77	Pass
	710	1	0	23.04	-1.26	19.63	<=34.77	Pass
			13	23.04	-1.26	19.63	<=34.77	Pass
			24	22.85	-1.26	19.44	<=34.77	Pass
		12	0	21.82	-1.26	18.41	<=34.77	Pass
			6	21.92	-1.26	18.51	<=34.77	Pass
			13	21.87	-1.26	18.46	<=34.77	Pass
		25	0	21.88	-1.26	18.47	<=34.77	Pass
	713.5	1	0	22.96	-1.26	19.55	<=34.77	Pass
			13	22.89	-1.26	19.48	<=34.77	Pass
			24	22.75	-1.26	19.34	<=34.77	Pass
		12	0	21.75	-1.26	18.34	<=34.77	Pass
			6	21.75	-1.26	18.34	<=34.77	Pass
			13	21.78	-1.26	18.37	<=34.77	Pass
		25	0	21.71	-1.26	18.30	<=34.77	Pass
16QAM	706.5	1	0	21.68	-1.26	18.27	<=34.77	Pass
			13	21.46	-1.26	18.05	<=34.77	Pass
			24	21.31	-1.26	17.90	<=34.77	Pass
		12	0	21.00	-1.26	17.59	<=34.77	Pass
			6	20.87	-1.26	17.46	<=34.77	Pass
			13	20.68	-1.26	17.27	<=34.77	Pass
		25	0	20.78	-1.26	17.37	<=34.77	Pass
	710	1	0	21.66	-1.26	18.25	<=34.77	Pass
			13	21.63	-1.26	18.22	<=34.77	Pass
			24	21.48	-1.26	18.07	<=34.77	Pass
		12	0	20.84	-1.26	17.43	<=34.77	Pass
			6	20.85	-1.26	17.44	<=34.77	Pass
			13	20.68	-1.26	17.27	<=34.77	Pass
		25	0	20.66	-1.26	17.25	<=34.77	Pass
	713.5	1	0	21.43	-1.26	18.02	<=34.77	Pass
			13	21.34	-1.26	17.93	<=34.77	Pass
			24	21.42	-1.26	18.01	<=34.77	Pass
		12	0	20.53	-1.26	17.12	<=34.77	Pass
			0	20.53	-1.26	17.12	<=34.77	Pass



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		25	6	20.74	-1.26	17.33	<=34.77	Pass		
			13	20.70	-1.26	17.29	<=34.77	Pass		
			0	20.84	-1.26	17.43	<=34.77	Pass		
64QAM	706.5	1	0	21.36	-1.26	17.95	<=34.77	Pass		
			13	21.06	-1.26	17.65	<=34.77	Pass		
			24	20.82	-1.26	17.41	<=34.77	Pass		
		12	0	20.88	-1.26	17.47	<=34.77	Pass		
			6	20.93	-1.26	17.52	<=34.77	Pass		
			13	20.61	-1.26	17.20	<=34.77	Pass		
		25	0	20.98	-1.26	17.57	<=34.77	Pass		
		710	1	0	21.33	-1.26	17.92	<=34.77	Pass	
				13	21.40	-1.26	17.99	<=34.77	Pass	
	24			21.07	-1.26	17.66	<=34.77	Pass		
	12		0	20.61	-1.26	17.20	<=34.77	Pass		
			6	20.60	-1.26	17.19	<=34.77	Pass		
			13	20.52	-1.26	17.11	<=34.77	Pass		
	25		0	20.81	-1.26	17.40	<=34.77	Pass		
	713.5		1	0	21.11	-1.26	17.70	<=34.77	Pass	
				13	21.27	-1.26	17.86	<=34.77	Pass	
		24		21.18	-1.26	17.77	<=34.77	Pass		
		12	0	20.39	-1.26	16.98	<=34.77	Pass		
			6	20.59	-1.26	17.18	<=34.77	Pass		
			13	20.58	-1.26	17.17	<=34.77	Pass		
		25	0	20.43	-1.26	17.02	<=34.77	Pass		
		Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.2 B17_10MHz_ERP

Band: 17 / Bandwidth: 10MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	709	1	0	23.09	-1.26	19.68	<=34.77	Pass
			25	22.72	-1.26	19.31	<=34.77	Pass
			49	22.77	-1.26	19.36	<=34.77	Pass
		25	0	22.07	-1.26	18.66	<=34.77	Pass
			13	22.02	-1.26	18.61	<=34.77	Pass
			25	21.77	-1.26	18.36	<=34.77	Pass
		50	0	21.81	-1.26	18.40	<=34.77	Pass
	710	1	0	22.96	-1.26	19.55	<=34.77	Pass
			25	22.97	-1.26	19.56	<=34.77	Pass
			49	22.64	-1.26	19.23	<=34.77	Pass
		25	0	21.82	-1.26	18.41	<=34.77	Pass
			13	21.74	-1.26	18.33	<=34.77	Pass
			25	21.68	-1.26	18.27	<=34.77	Pass
		50	0	21.70	-1.26	18.29	<=34.77	Pass
	711	1	0	23.02	-1.26	19.61	<=34.77	Pass
			25	23.01	-1.26	19.60	<=34.77	Pass
			49	22.90	-1.26	19.49	<=34.77	Pass
		25	0	21.99	-1.26	18.58	<=34.77	Pass
			13	21.88	-1.26	18.47	<=34.77	Pass



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16QAM	709	1	25	21.82	-1.26	18.41	<=34.77	Pass
			0	21.88	-1.26	18.47	<=34.77	Pass
			50	21.68	-1.26	18.27	<=34.77	Pass
	710	1	0	21.68	-1.26	18.27	<=34.77	Pass
			25	21.87	-1.26	18.46	<=34.77	Pass
			49	21.28	-1.26	17.87	<=34.77	Pass
		25	0	21.14	-1.26	17.73	<=34.77	Pass
			13	20.97	-1.26	17.56	<=34.77	Pass
			25	20.74	-1.26	17.33	<=34.77	Pass
	711	1	0	20.89	-1.26	17.48	<=34.77	Pass
			0	21.68	-1.26	18.27	<=34.77	Pass
			25	21.59	-1.26	18.18	<=34.77	Pass
		25	0	21.11	-1.26	17.70	<=34.77	Pass
			13	20.74	-1.26	17.33	<=34.77	Pass
			25	20.68	-1.26	17.27	<=34.77	Pass
		50	0	20.68	-1.26	17.27	<=34.77	Pass
			0	20.66	-1.26	17.25	<=34.77	Pass
			0	21.70	-1.26	18.29	<=34.77	Pass
64QAM	709	1	0	21.67	-1.26	18.26	<=34.77	Pass
			25	21.67	-1.26	18.26	<=34.77	Pass
			49	21.67	-1.26	18.26	<=34.77	Pass
		25	0	20.94	-1.26	17.53	<=34.77	Pass
			13	21.01	-1.26	17.60	<=34.77	Pass
			25	21.01	-1.26	17.60	<=34.77	Pass
	710	1	0	20.99	-1.26	17.58	<=34.77	Pass
			0	21.57	-1.26	18.16	<=34.77	Pass
			25	21.20	-1.26	17.79	<=34.77	Pass
		25	0	21.03	-1.26	17.62	<=34.77	Pass
			13	21.01	-1.26	17.60	<=34.77	Pass
			25	20.87	-1.26	17.46	<=34.77	Pass
		50	0	20.71	-1.26	17.30	<=34.77	Pass
			0	20.99	-1.26	17.58	<=34.77	Pass
			0	21.48	-1.26	18.07	<=34.77	Pass
	711	1	0	21.43	-1.26	18.02	<=34.77	Pass
			25	21.04	-1.26	17.63	<=34.77	Pass
			49	21.04	-1.26	17.63	<=34.77	Pass
		25	0	20.78	-1.26	17.37	<=34.77	Pass
			13	20.81	-1.26	17.40	<=34.77	Pass
			25	20.73	-1.26	17.32	<=34.77	Pass
		50	0	20.78	-1.26	17.37	<=34.77	Pass
			0	21.39	-1.26	17.98	<=34.77	Pass
			0	21.44	-1.26	18.03	<=34.77	Pass
64QAM	710	1	0	21.28	-1.26	17.87	<=34.77	Pass
			25	21.28	-1.26	17.87	<=34.77	Pass
			49	21.28	-1.26	17.87	<=34.77	Pass
		25	0	20.90	-1.26	17.49	<=34.77	Pass
			13	20.67	-1.26	17.26	<=34.77	Pass
			25	20.77	-1.26	17.36	<=34.77	Pass
	711	1	0	20.80	-1.26	17.39	<=34.77	Pass
			0	20.80	-1.26	17.39	<=34.77	Pass
			0	20.80	-1.26	17.39	<=34.77	Pass
		25	0	20.80	-1.26	17.39	<=34.77	Pass
			0	20.80	-1.26	17.39	<=34.77	Pass
			0	20.80	-1.26	17.39	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

2. Frequency Stability

2.1 Test Result



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2.1.1 B17_10MHz

Band: 17 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	710	50	0	20	8.8	1.300	0.0018	-2.5 to 2.5	Pass
					7.7	0.200	0.0003	-2.5 to 2.5	Pass
					6.6	0.200	0.0003	-2.5 to 2.5	Pass
				-30	7.7	1.100	0.0015	-2.5 to 2.5	Pass
				-20	7.7	1.600	0.0023	-2.5 to 2.5	Pass
				-10	7.7	0.200	0.0003	-2.5 to 2.5	Pass
				0	7.7	0.100	0.0001	-2.5 to 2.5	Pass
				10	7.7	0.000	0.0000	-2.5 to 2.5	Pass
				30	7.7	2.600	0.0037	-2.5 to 2.5	Pass
				40	7.7	0.300	0.0004	-2.5 to 2.5	Pass
				50	7.7	-0.500	-0.0007	-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	4.476	/	Pass
	16QAM	710	25	0	4.476	/	Pass
	64QAM	710	25	0	4.485	/	Pass
10	QPSK	710	50	0	8.949	/	Pass
	16QAM	710	50	0	8.926	/	Pass
	64QAM	710	50	0	8.953	/	Pass

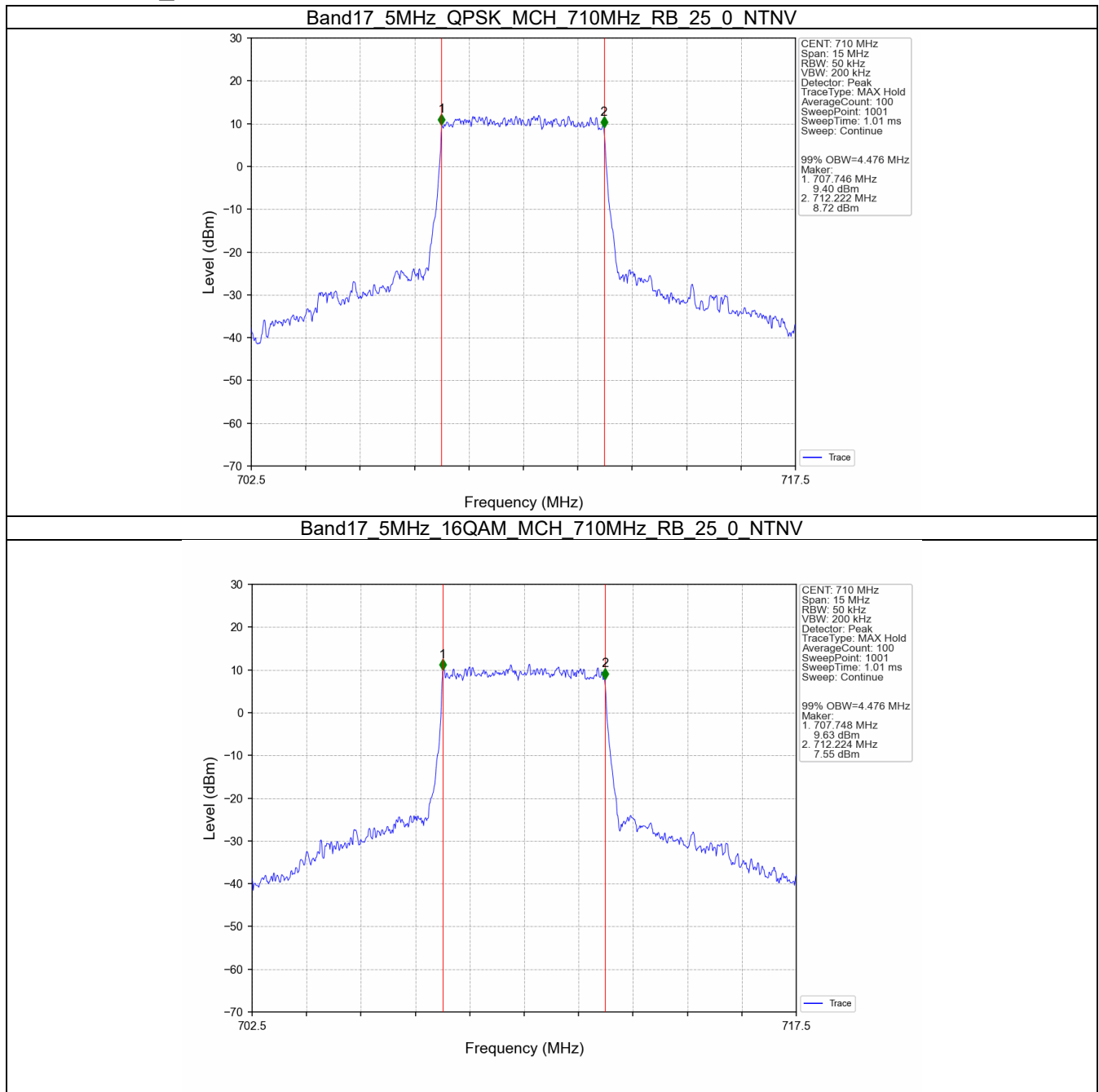
3.1.2 Band17_XDB

Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	710	25	0	4.931	/	Pass
	16QAM	710	25	0	4.889	/	Pass
	64QAM	710	25	0	4.880	/	Pass
10	QPSK	710	50	0	9.728	/	Pass
	16QAM	710	50	0	9.666	/	Pass
	64QAM	710	50	0	9.718	/	Pass



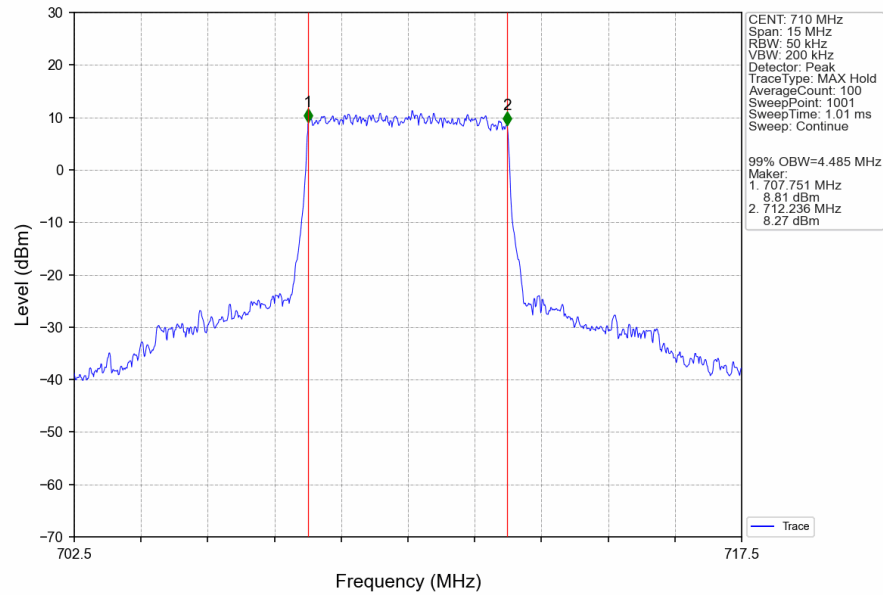
3.2 Test Graph

3.2.1 Band17_OBW

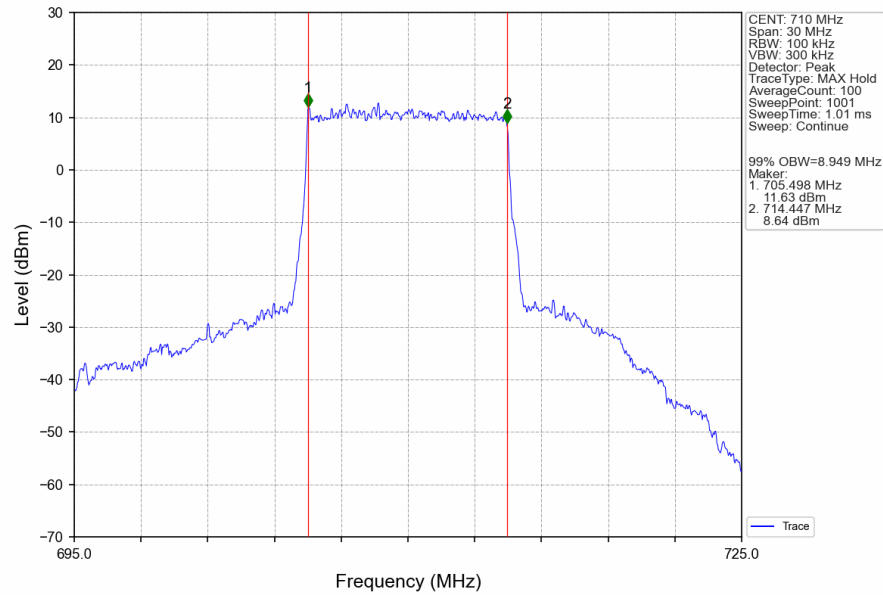




Band17_5MHz_64QAM_MCH_710MHz_RB_25_0_NTNV

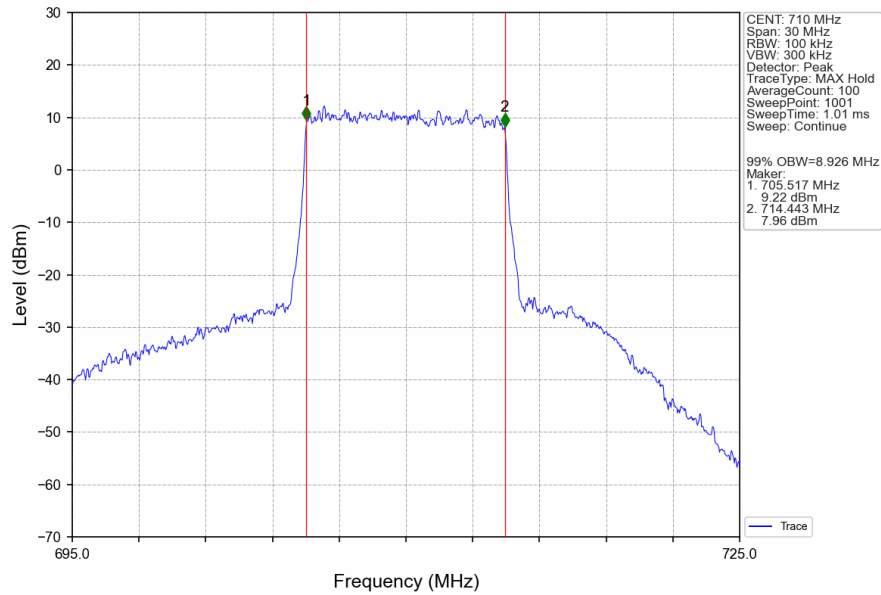


Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV

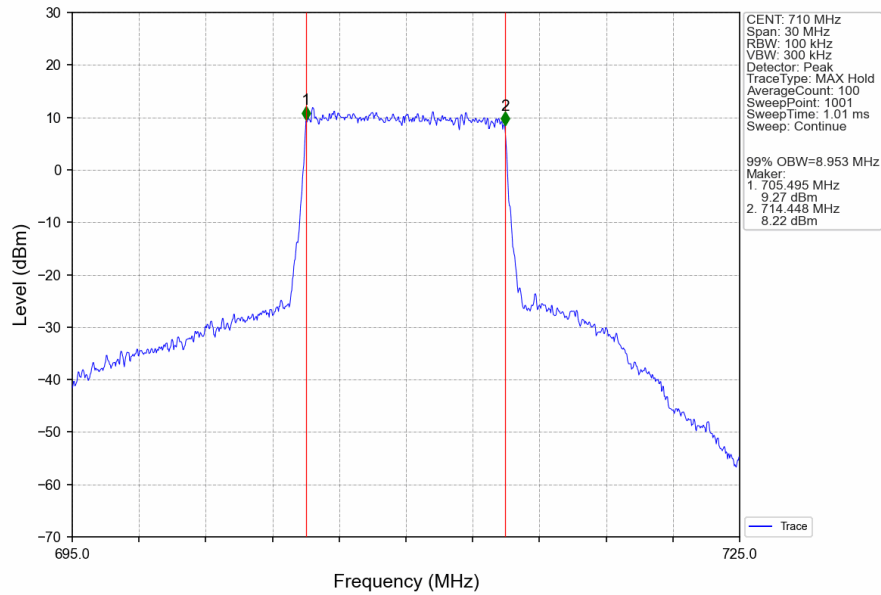




Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV

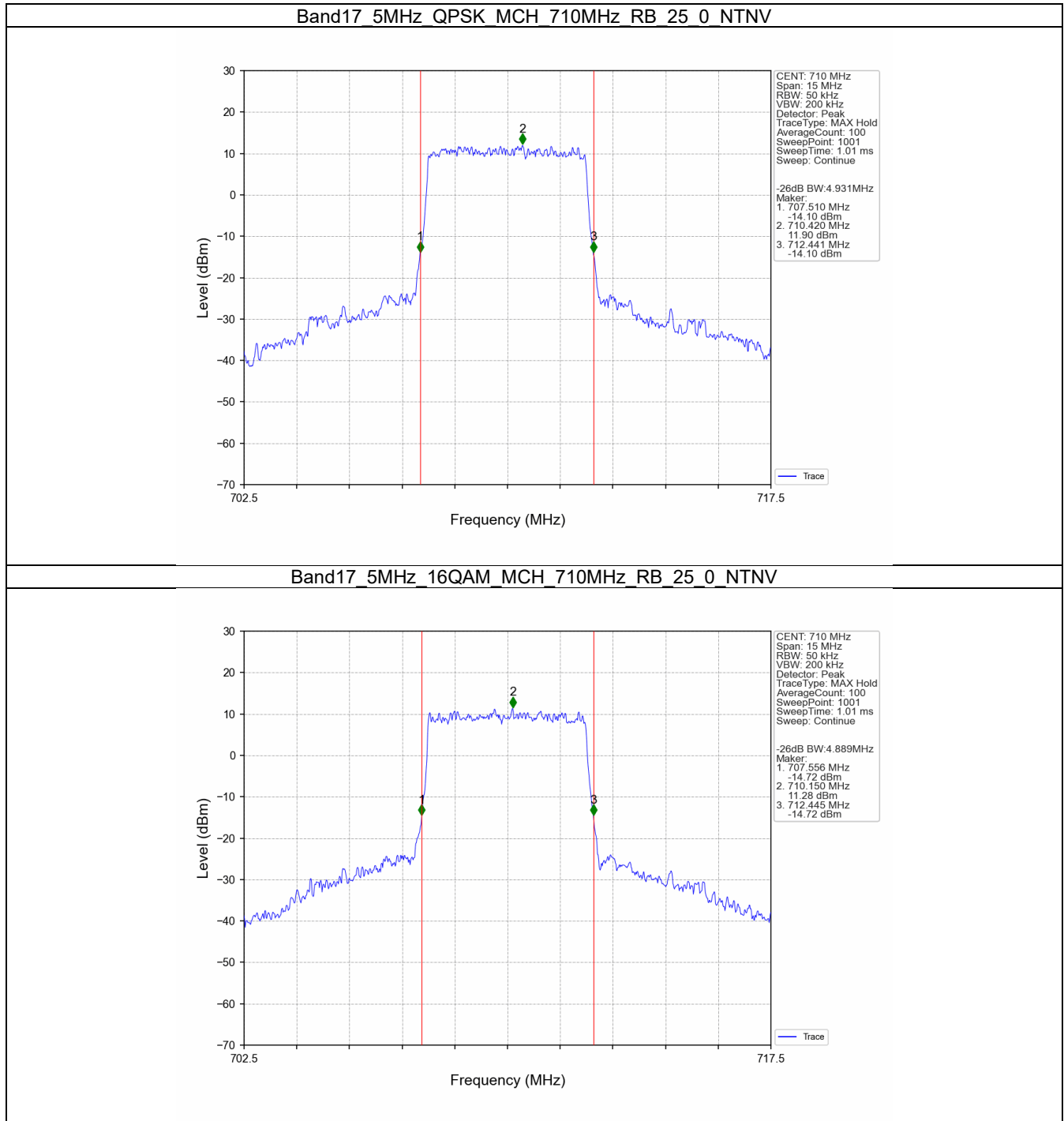


Band17_10MHz_64QAM_MCH_710MHz_RB_50_0_NTNV

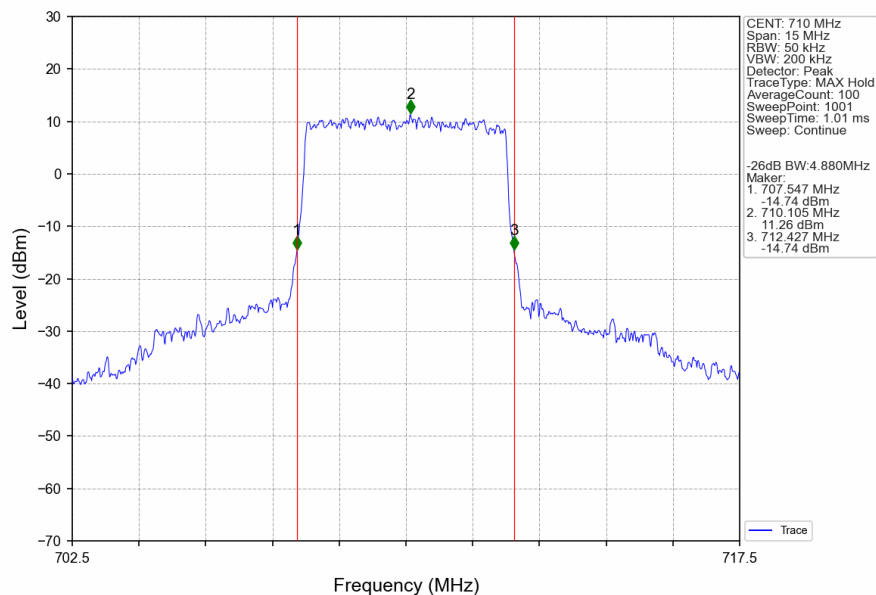




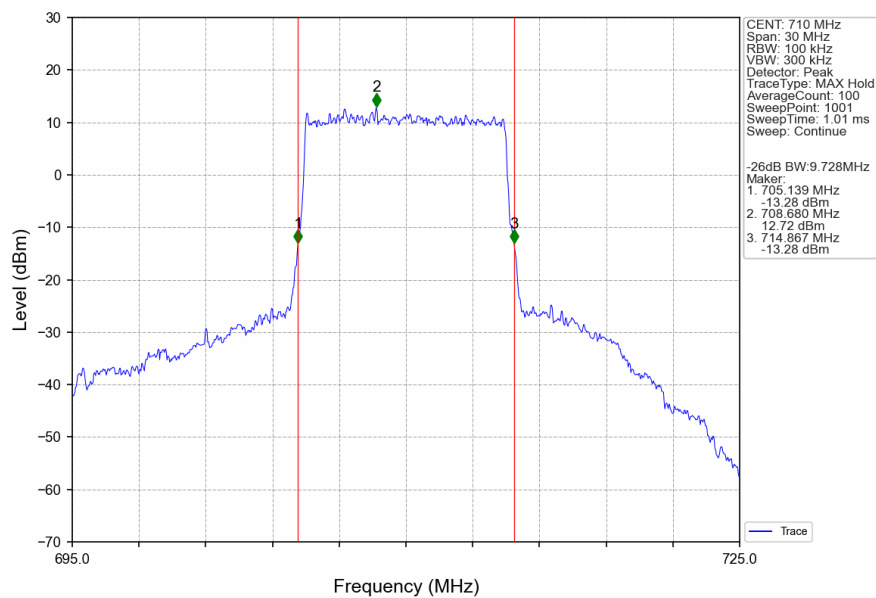
3.2.2 Band17_XDB



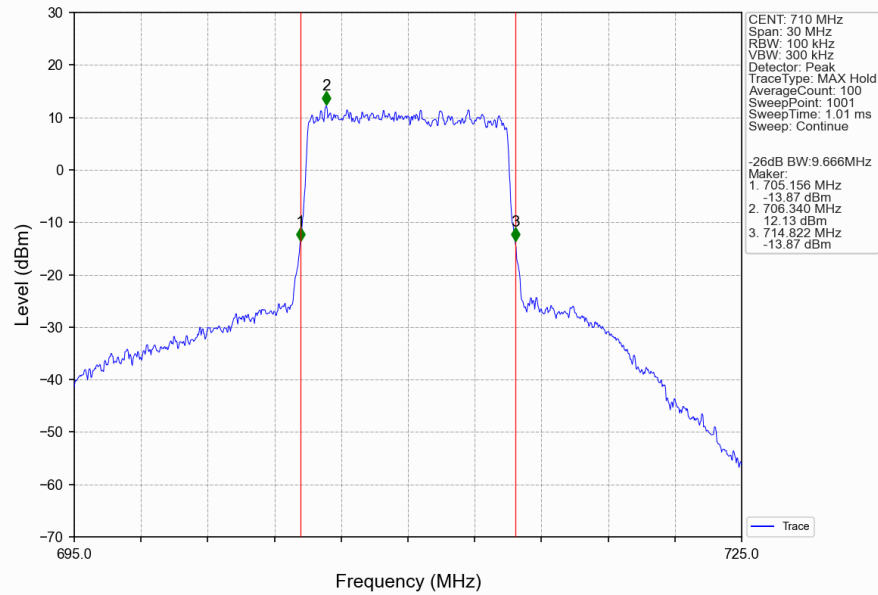
Band17_5MHz_64QAM_MCH_710MHz_RB_25_0_NTNV



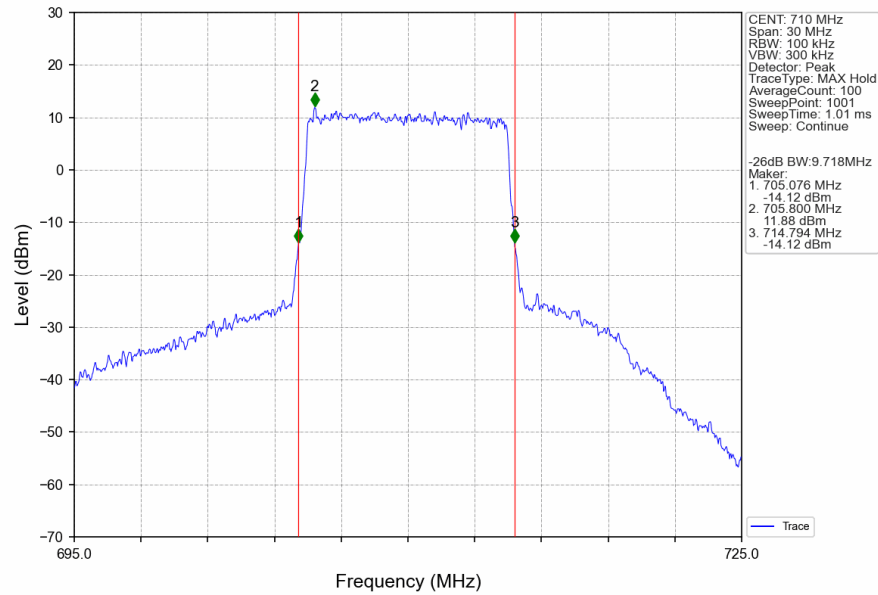
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_64QAM_MCH_710MHz_RB_50_0_NTNV





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4. Peak-Average Ratio

4.1 Test Result

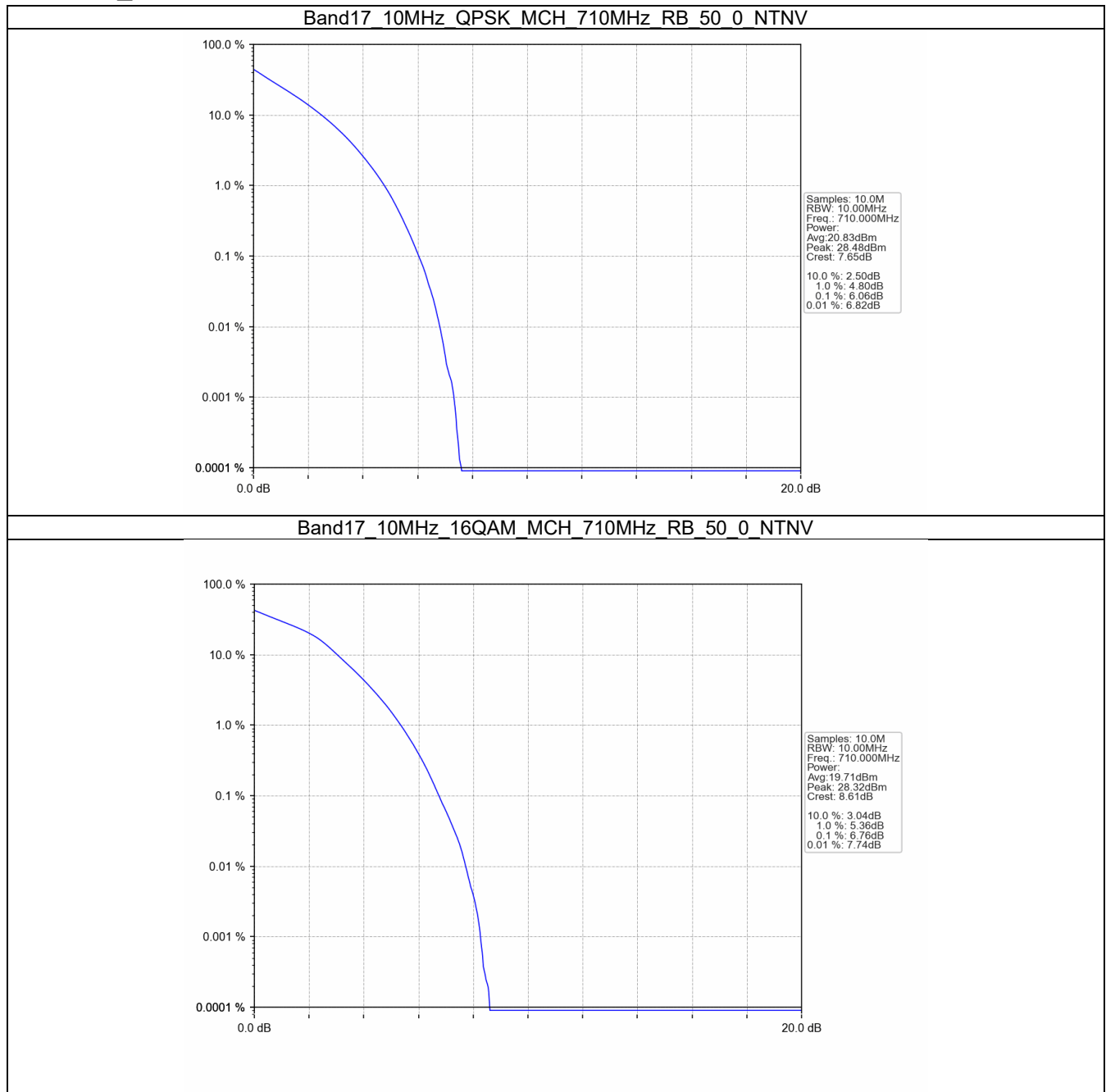
4.1.1 B17_10MHz

Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	710	50	0	6.06	<=13	Pass
16QAM	710	50	0	6.76	<=13	Pass
64QAM	710	50	0	6.74	<=13	Pass



4.2 Test Graph

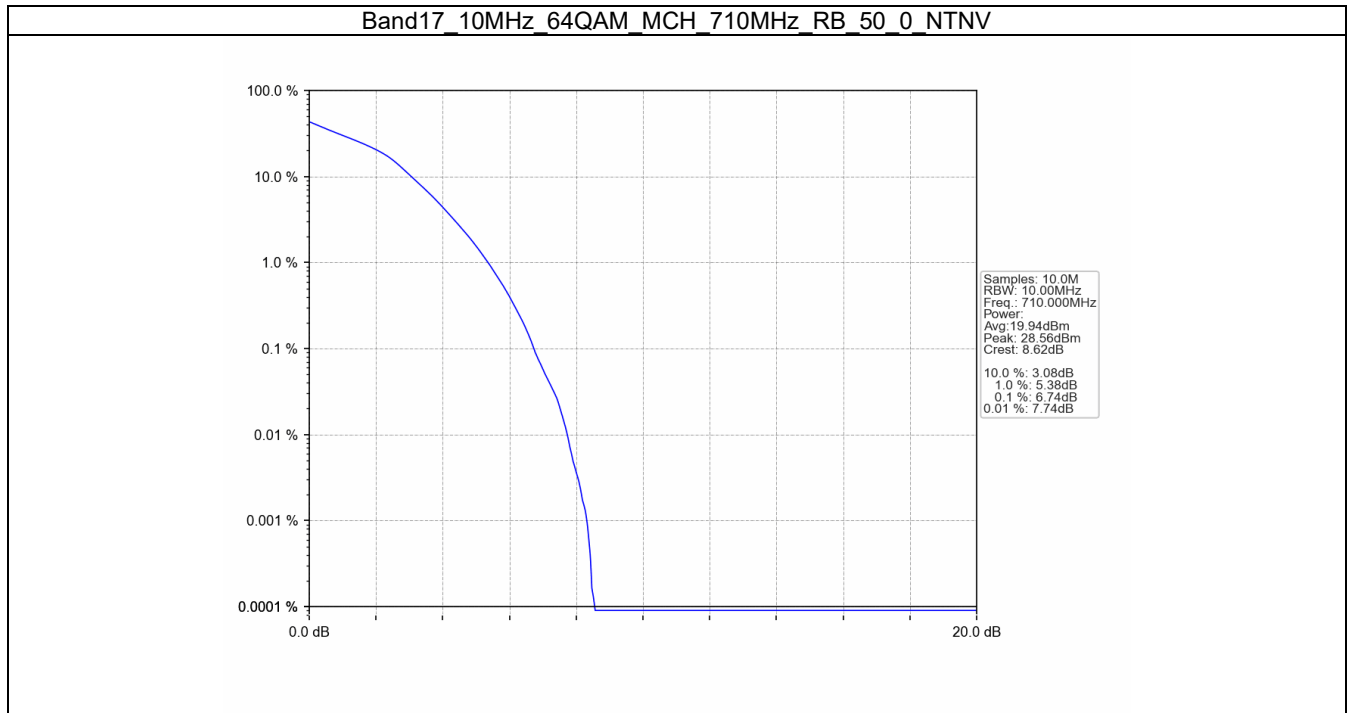
4.2.1 B17_10MHz





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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

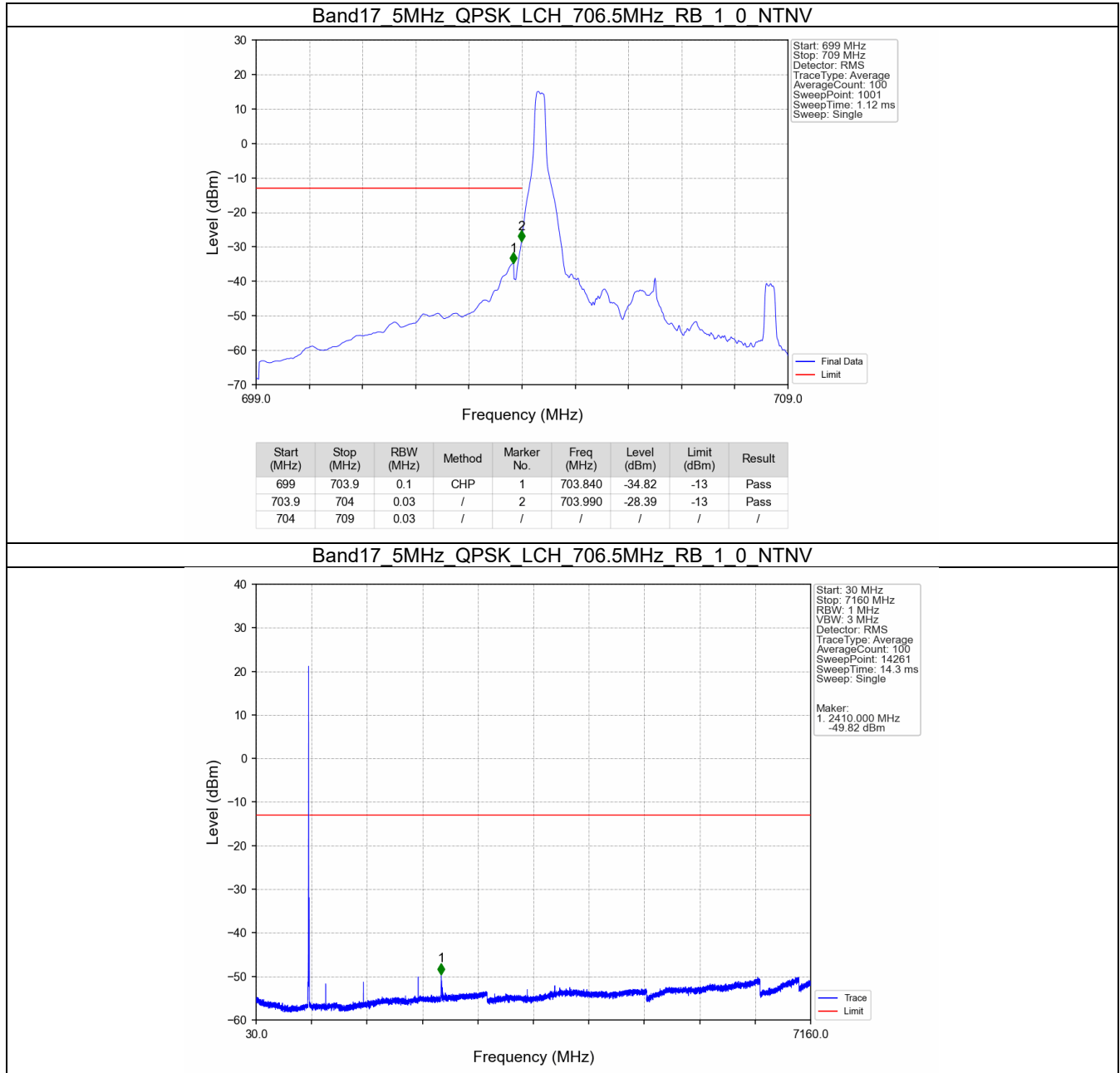
5.1.2 B17_10MHz

Band: 17 / Bandwidth: 10MHz / NTV						
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

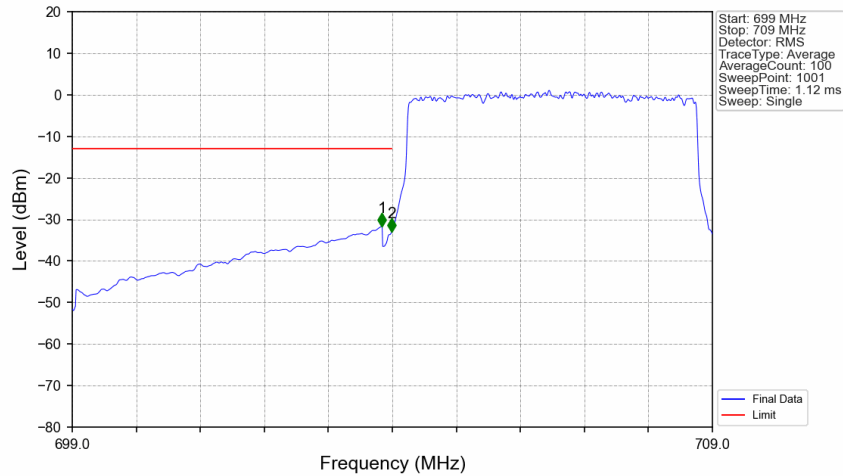


5.2 Test Graph

5.2.1 B17_5MHz

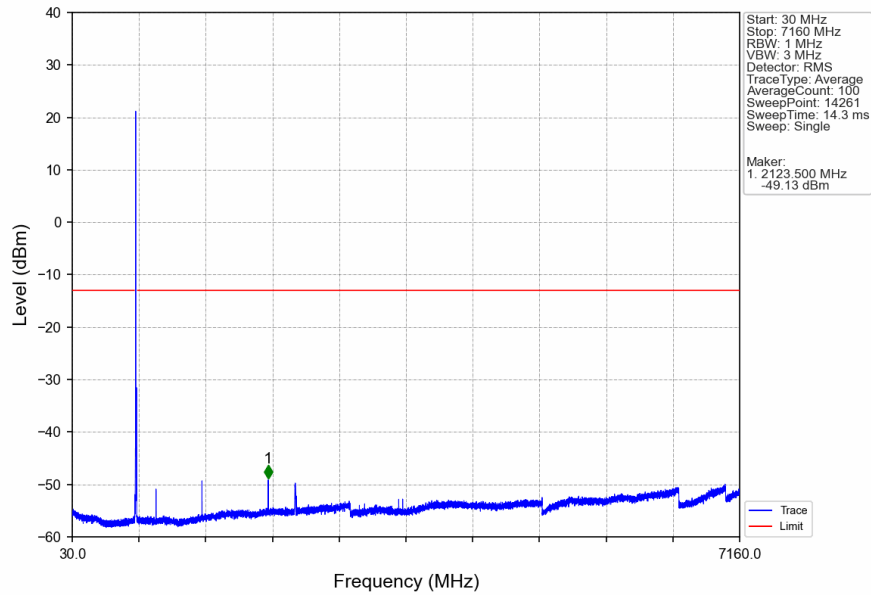


Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV



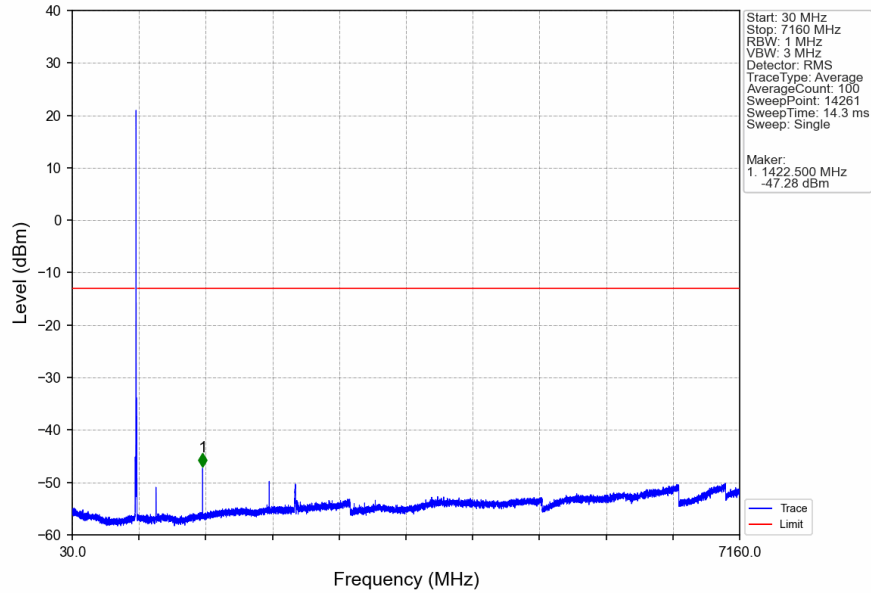
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-31.62	-13	Pass
703.9	704	0.03	/	2	703.990	-32.88	-13	Pass
704	709	0.03	/	/	/	/	/	/

Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV

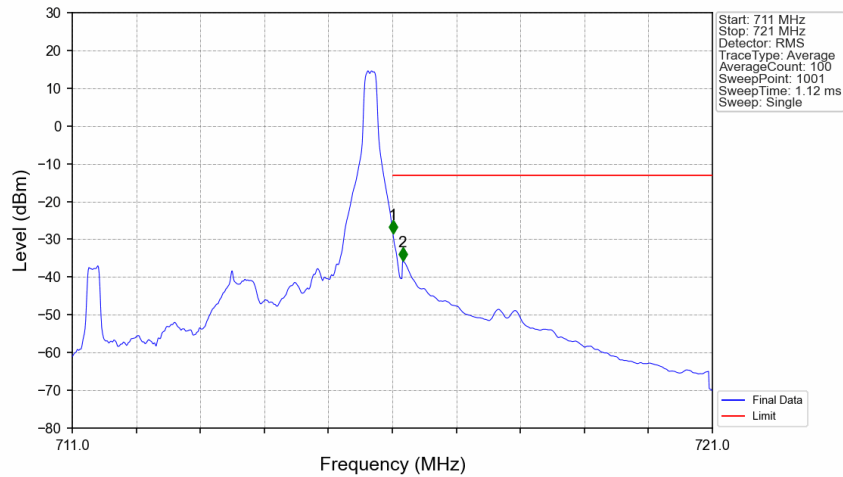




Band17 5MHz QPSK HCH 713.5MHz RB 1 0 NTN



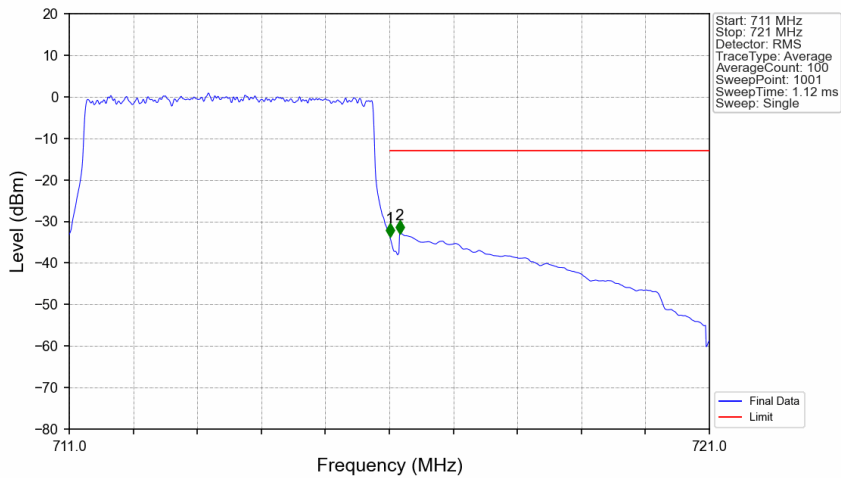
Band17 5MHz QPSK HCH 713.5MHz RB 1 24 NTN



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	-28.53	-13	Pass
716.1	721	0.1	CHP	2	716.160	-35.74	-13	Pass



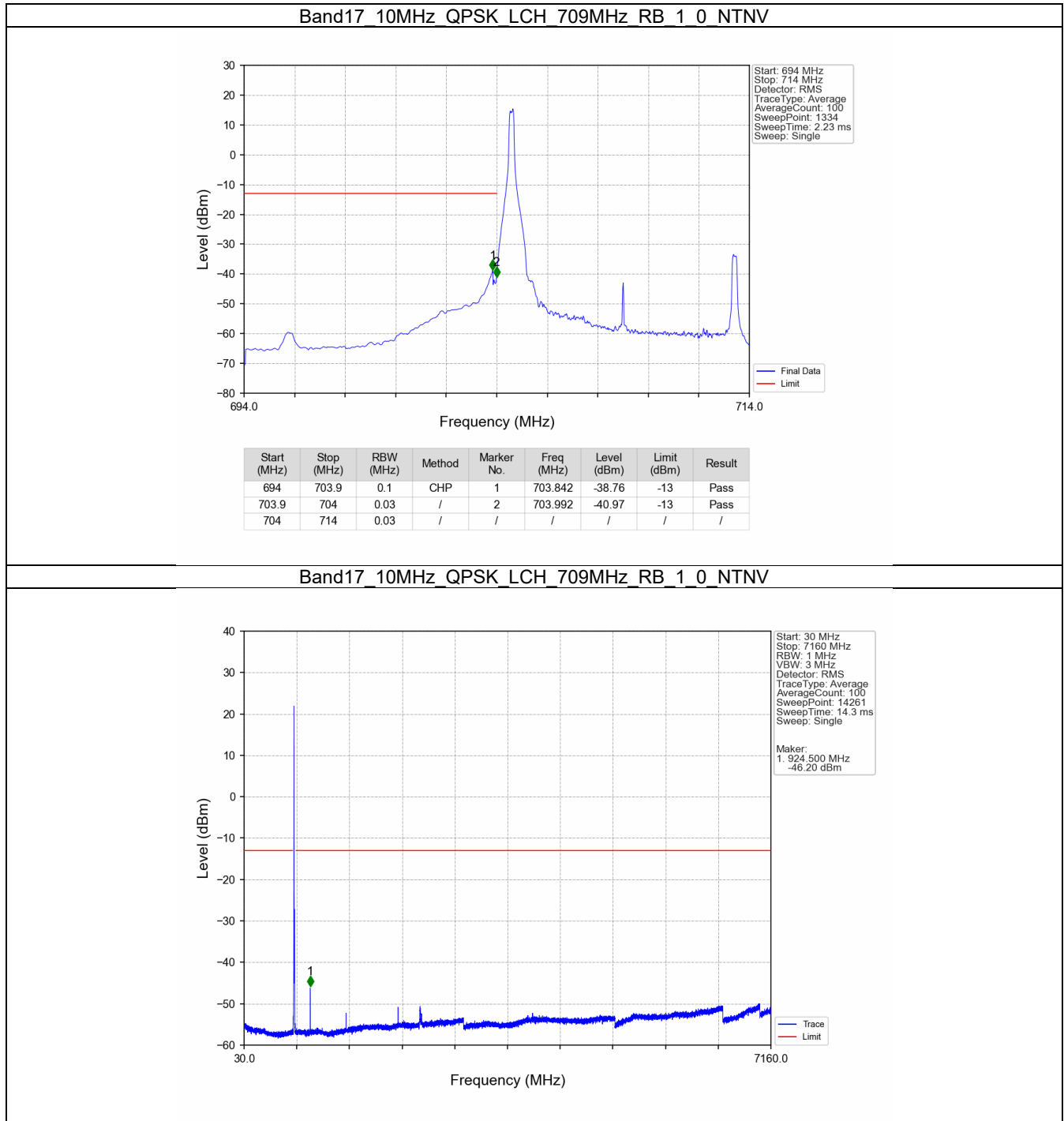
Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



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	-33.73	-13	Pass
716.1	721	0.1	CHP	2	716.160	-32.91	-13	Pass

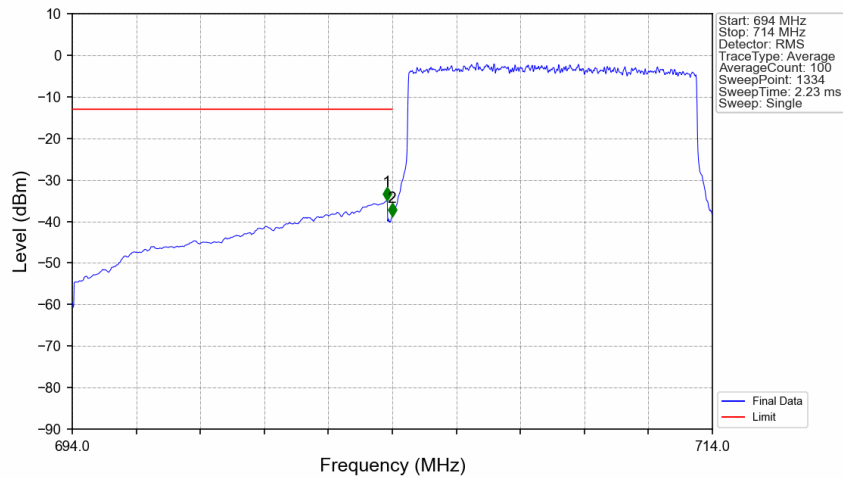


5.2.2 B17_10MHz



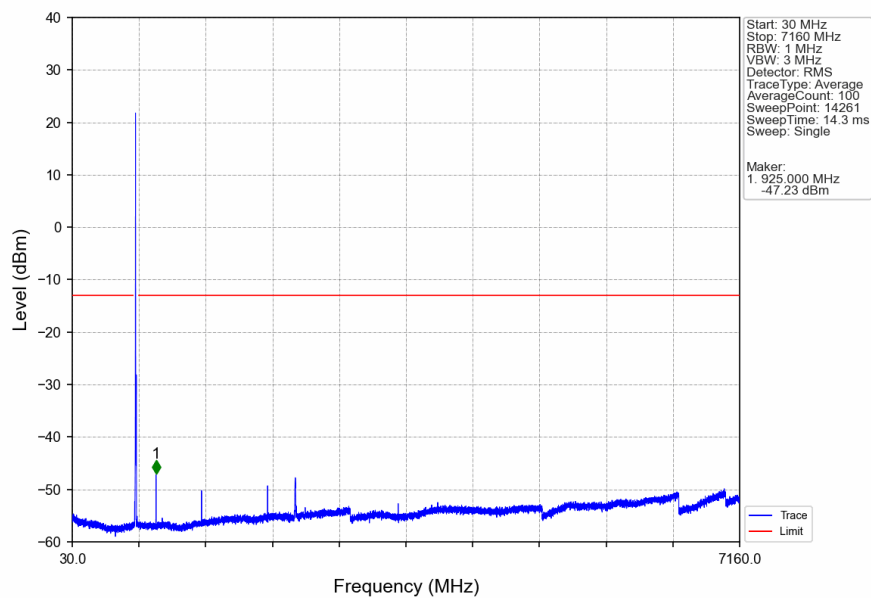


Band17 10MHz QPSK LCH 709MHz RB 50 0 NTN



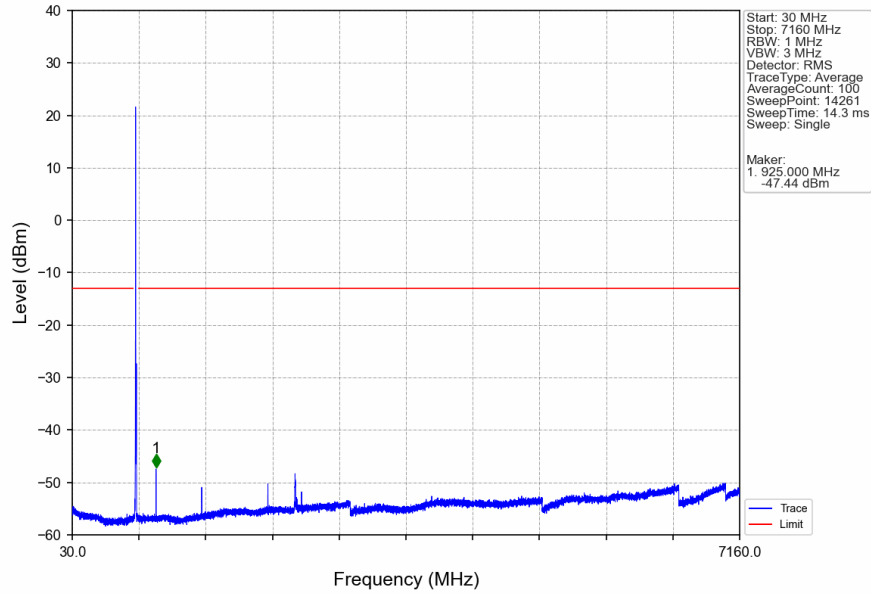
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.827	-35.00	-13	Pass
703.9	704	0.03	/	2	703.992	-38.72	-13	Pass
704	714	0.03	/	/	/	/	/	/

Band17 10MHz QPSK MCH 710MHz RB 1 0 NTN

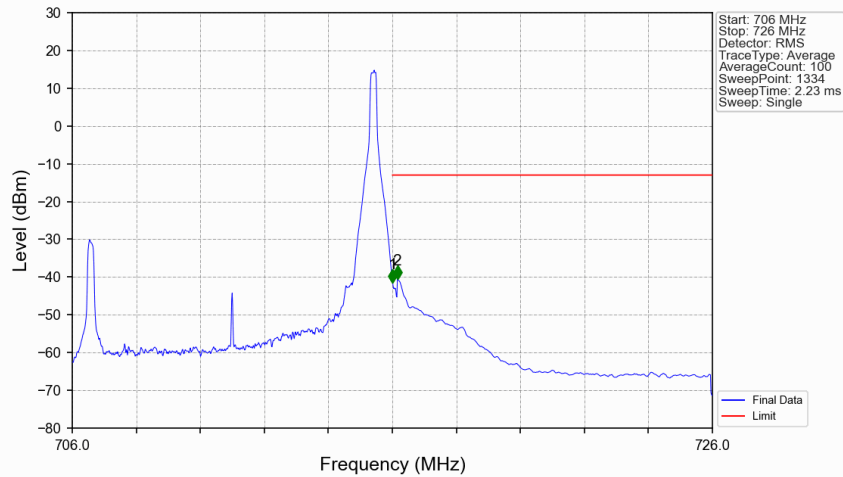




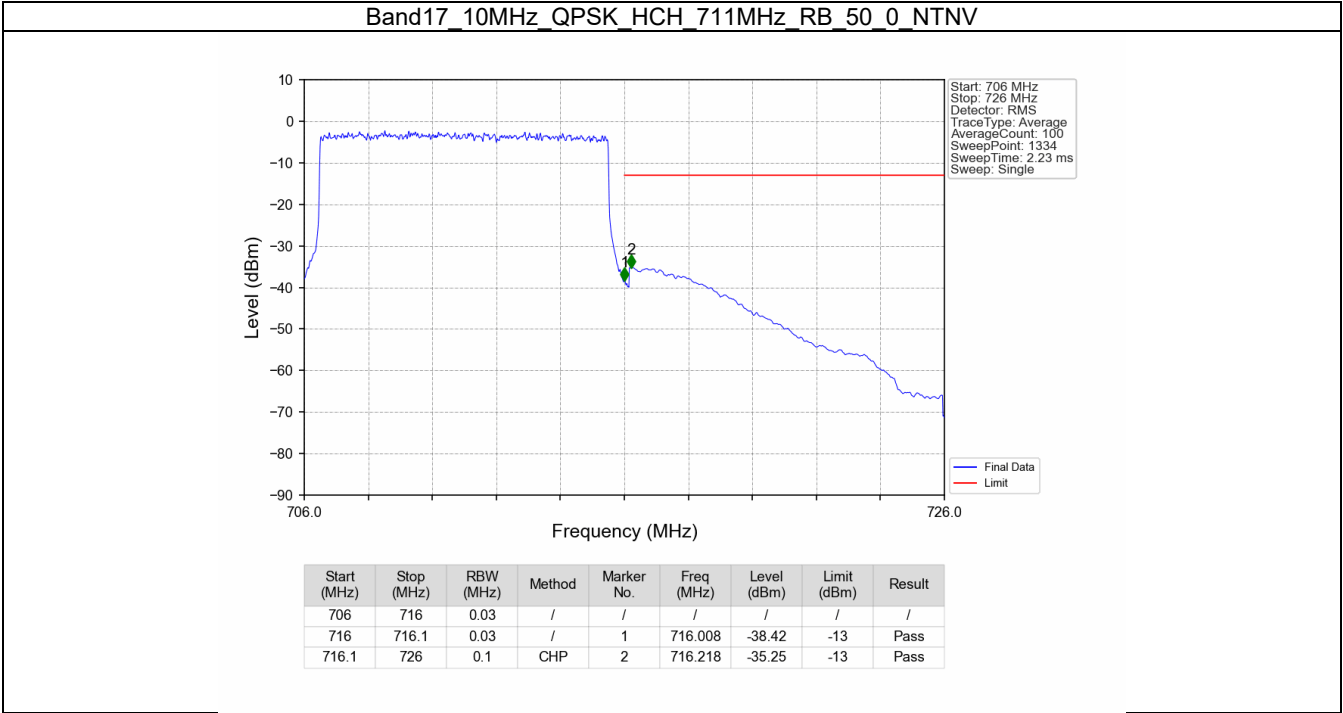
Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



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	-41.40	-13	Pass
716.1	726	0.1	CHP	2	716.158	-40.46	-13	Pass



---End of Attachment---