

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	24.23	-2.40	19.68	<=34.77	Pass
			13	24.08	-2.40	19.53	<=34.77	Pass
			24	23.97	-2.40	19.42	<=34.77	Pass
		12	0	23.18	-2.40	18.63	<=34.77	Pass
			6	23.08	-2.40	18.53	<=34.77	Pass
			13	22.94	-2.40	18.39	<=34.77	Pass
		25	0	23.05	-2.40	18.50	<=34.77	Pass
	710	1	0	23.91	-2.40	19.36	<=34.77	Pass
			13	23.86	-2.40	19.31	<=34.77	Pass
			24	23.79	-2.40	19.24	<=34.77	Pass
		12	0	22.81	-2.40	18.26	<=34.77	Pass
			6	22.88	-2.40	18.33	<=34.77	Pass
			13	22.82	-2.40	18.27	<=34.77	Pass
		25	0	22.79	-2.40	18.24	<=34.77	Pass
	713.5	1	0	24.00	-2.40	19.45	<=34.77	Pass
			13	24.01	-2.40	19.46	<=34.77	Pass
			24	23.85	-2.40	19.30	<=34.77	Pass
		12	0	23.03	-2.40	18.48	<=34.77	Pass
			6	22.93	-2.40	18.38	<=34.77	Pass
			13	22.94	-2.40	18.39	<=34.77	Pass
		25	0	23.02	-2.40	18.47	<=34.77	Pass
16QAM	706.5	1	0	23.07	-2.40	18.52	<=34.77	Pass
			13	22.97	-2.40	18.42	<=34.77	Pass
			24	22.80	-2.40	18.25	<=34.77	Pass
		12	0	22.18	-2.40	17.63	<=34.77	Pass
			6	22.04	-2.40	17.49	<=34.77	Pass
			13	21.98	-2.40	17.43	<=34.77	Pass
		25	0	22.05	-2.40	17.50	<=34.77	Pass
	710	1	0	23.12	-2.40	18.57	<=34.77	Pass
			13	23.13	-2.40	18.58	<=34.77	Pass
			24	23.08	-2.40	18.53	<=34.77	Pass
		12	0	21.90	-2.40	17.35	<=34.77	Pass
			6	21.96	-2.40	17.41	<=34.77	Pass
			13	21.85	-2.40	17.30	<=34.77	Pass
		25	0	21.81	-2.40	17.26	<=34.77	Pass
	713.5	1	0	23.13	-2.40	18.58	<=34.77	Pass
			13	23.15	-2.40	18.60	<=34.77	Pass
			24	23.04	-2.40	18.49	<=34.77	Pass
		12	0	21.97	-2.40	17.42	<=34.77	Pass
			6	21.89	-2.40	17.34	<=34.77	Pass
			13	21.86	-2.40	17.31	<=34.77	Pass
		25	0	22.02	-2.40	17.47	<=34.77	Pass
64QAM	706.5	1	0	22.12	-2.40	17.57	<=34.77	Pass
			13	22.01	-2.40	17.46	<=34.77	Pass
			24	21.87	-2.40	17.32	<=34.77	Pass
		12	0	21.09	-2.40	16.54	<=34.77	Pass
			6	20.96	-2.40	16.41	<=34.77	Pass
			13	20.94	-2.40	16.39	<=34.77	Pass
		25	0	21.02	-2.40	16.47	<=34.77	Pass
	710	1	0	22.08	-2.40	17.53	<=34.77	Pass
			13	22.07	-2.40	17.52	<=34.77	Pass
			24	22.03	-2.40	17.48	<=34.77	Pass
	713.5	12	0	20.90	-2.40	16.35	<=34.77	Pass
			6	20.95	-2.40	16.40	<=34.77	Pass

			13	20.80	-2.40	16.25	<=34.77	Pass
		25	0	20.84	-2.40	16.29	<=34.77	Pass
	713.5	1	0	22.07	-2.40	17.52	<=34.77	Pass
			13	22.07	-2.40	17.52	<=34.77	Pass
			24	21.95	-2.40	17.40	<=34.77	Pass
		12	0	21.07	-2.40	16.52	<=34.77	Pass
			6	21.04	-2.40	16.49	<=34.77	Pass
			13	21.02	-2.40	16.47	<=34.77	Pass
		25	0	21.00	-2.40	16.45	<=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	24.25	-2.40	19.70	<=34.77	Pass
			25	23.77	-2.40	19.22	<=34.77	Pass
			49	23.93	-2.40	19.38	<=34.77	Pass
		25	0	22.99	-2.40	18.44	<=34.77	Pass
			13	22.84	-2.40	18.29	<=34.77	Pass
			25	22.84	-2.40	18.29	<=34.77	Pass
		50	0	22.92	-2.40	18.37	<=34.77	Pass
	710	1	0	24.23	-2.40	19.68	<=34.77	Pass
			25	23.78	-2.40	19.23	<=34.77	Pass
			49	23.98	-2.40	19.43	<=34.77	Pass
		25	0	22.94	-2.40	18.39	<=34.77	Pass
			13	22.89	-2.40	18.34	<=34.77	Pass
			25	23.01	-2.40	18.46	<=34.77	Pass
		50	0	22.99	-2.40	18.44	<=34.77	Pass
	711	1	0	24.23	-2.40	19.68	<=34.77	Pass
			25	23.93	-2.40	19.38	<=34.77	Pass
			49	23.96	-2.40	19.41	<=34.77	Pass
		25	0	22.90	-2.40	18.35	<=34.77	Pass
			13	22.90	-2.40	18.35	<=34.77	Pass
			25	22.97	-2.40	18.42	<=34.77	Pass
		50	0	22.93	-2.40	18.38	<=34.77	Pass
16QAM	709	1	0	23.88	-2.40	19.33	<=34.77	Pass
			25	23.42	-2.40	18.87	<=34.77	Pass
			49	23.55	-2.40	19.00	<=34.77	Pass
		25	0	22.06	-2.40	17.51	<=34.77	Pass
			13	21.94	-2.40	17.39	<=34.77	Pass
			25	21.97	-2.40	17.42	<=34.77	Pass
		50	0	21.94	-2.40	17.39	<=34.77	Pass
	710	1	0	23.37	-2.40	18.82	<=34.77	Pass
			25	22.98	-2.40	18.43	<=34.77	Pass
			49	23.15	-2.40	18.60	<=34.77	Pass
		25	0	21.97	-2.40	17.42	<=34.77	Pass
			13	21.94	-2.40	17.39	<=34.77	Pass
			25	21.97	-2.40	17.42	<=34.77	Pass
		50	0	21.96	-2.40	17.41	<=34.77	Pass
	711	1	0	23.19	-2.40	18.64	<=34.77	Pass
			25	22.91	-2.40	18.36	<=34.77	Pass
			49	22.99	-2.40	18.44	<=34.77	Pass
		25	0	22.04	-2.40	17.49	<=34.77	Pass
			13	21.97	-2.40	17.42	<=34.77	Pass
			25	22.00	-2.40	17.45	<=34.77	Pass
		50	0	21.86	-2.40	17.31	<=34.77	Pass
64QAM	709	1	0	22.48	-2.40	17.93	<=34.77	Pass
			25	22.05	-2.40	17.50	<=34.77	Pass
			49	22.22	-2.40	17.67	<=34.77	Pass
		25	0	21.08	-2.40	16.53	<=34.77	Pass

			13	20.95	-2.40	16.40	<=34.77	Pass
			25	20.95	-2.40	16.40	<=34.77	Pass
		50	0	21.02	-2.40	16.47	<=34.77	Pass
	710	1	0	22.28	-2.40	17.73	<=34.77	Pass
			25	21.86	-2.40	17.31	<=34.77	Pass
			49	22.08	-2.40	17.53	<=34.77	Pass
		25	0	21.05	-2.40	16.50	<=34.77	Pass
			13	21.01	-2.40	16.46	<=34.77	Pass
			25	21.09	-2.40	16.54	<=34.77	Pass
		50	0	21.00	-2.40	16.45	<=34.77	Pass
	711	1	0	22.10	-2.40	17.55	<=34.77	Pass
			25	21.80	-2.40	17.25	<=34.77	Pass
			49	21.81	-2.40	17.26	<=34.77	Pass
		25	0	21.02	-2.40	16.47	<=34.77	Pass
			13	20.96	-2.40	16.41	<=34.77	Pass
			25	20.99	-2.40	16.44	<=34.77	Pass
		50	0	20.95	-2.40	16.40	<=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 (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	710	50	0	20	3.27	0.342	0.0005	-2.5 to 2.5	Pass
					3.85	0.090	0.0001	-2.5 to 2.5	Pass
					4.43	-0.155	-0.0002	-2.5 to 2.5	Pass
				-30	3.85	1.064	0.0015	-2.5 to 2.5	Pass
				-20	3.85	1.132	0.0016	-2.5 to 2.5	Pass
				-10	3.85	0.293	0.0004	-2.5 to 2.5	Pass
				0	3.85	-1.089	-0.0015	-2.5 to 2.5	Pass
				10	3.85	0.062	0.0001	-2.5 to 2.5	Pass
				30	3.85	-0.942	-0.0013	-2.5 to 2.5	Pass
				40	3.85	-0.689	-0.0010	-2.5 to 2.5	Pass
				50	3.85	-0.594	-0.0008	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band17_OBW

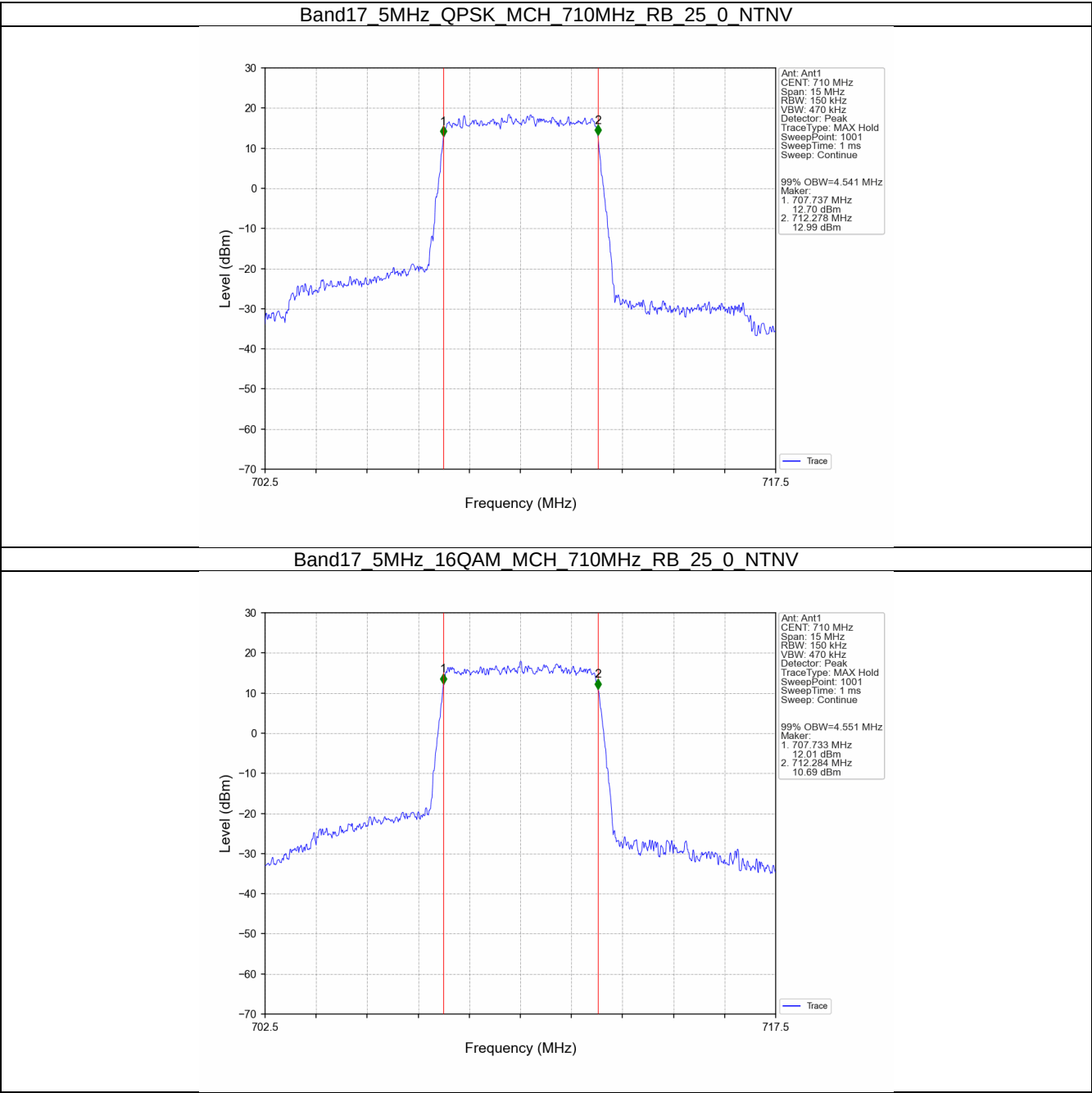
Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	710	25	0	4.541	/	Pass
	16QAM	710	25	0	4.551	/	Pass
10	QPSK	710	50	0	9.048	/	Pass
	16QAM	710	50	0	9.012	/	Pass

3.1.2 Band17_XDB

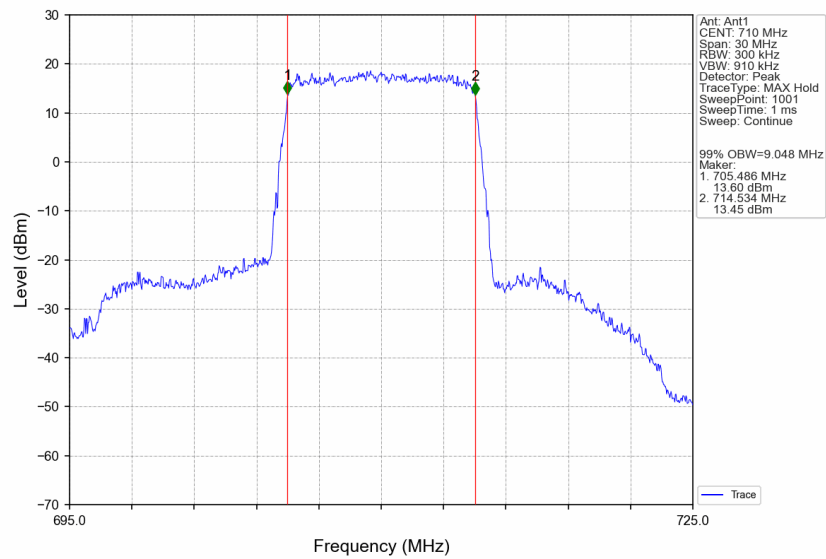
Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	710	25	0	5.071	/	Pass
	16QAM	710	25	0	5.052	/	Pass
10	QPSK	710	50	0	10.136	/	Pass
	16QAM	710	50	0	9.976	/	Pass

3.2 Test Graph

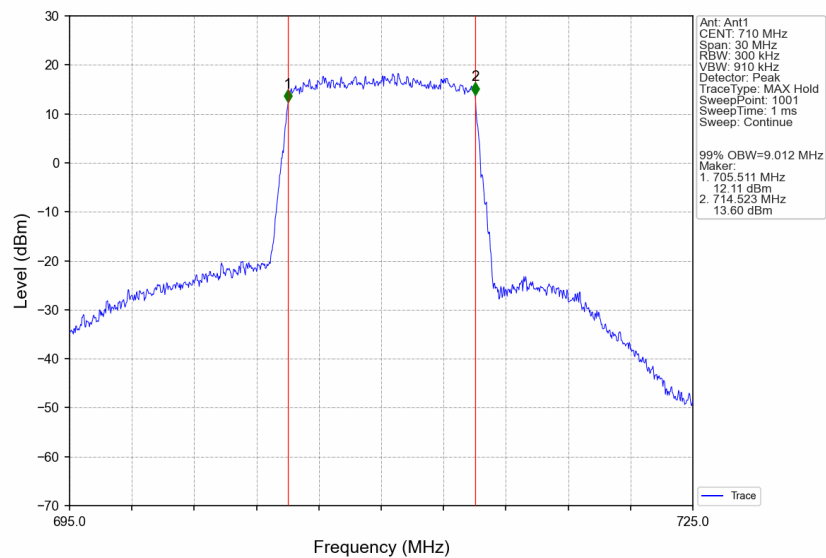
3.2.1 Band17_OBW



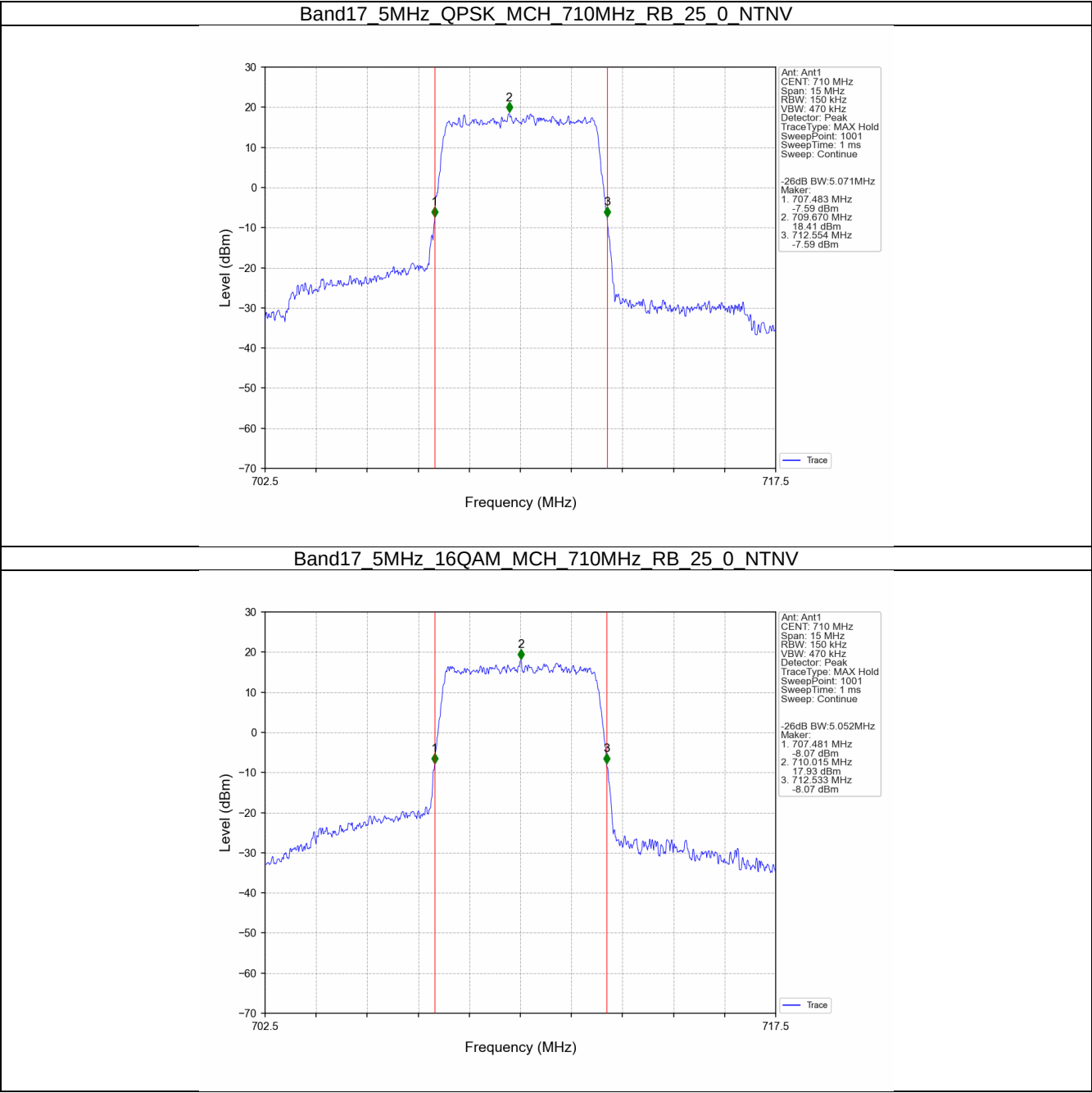
Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



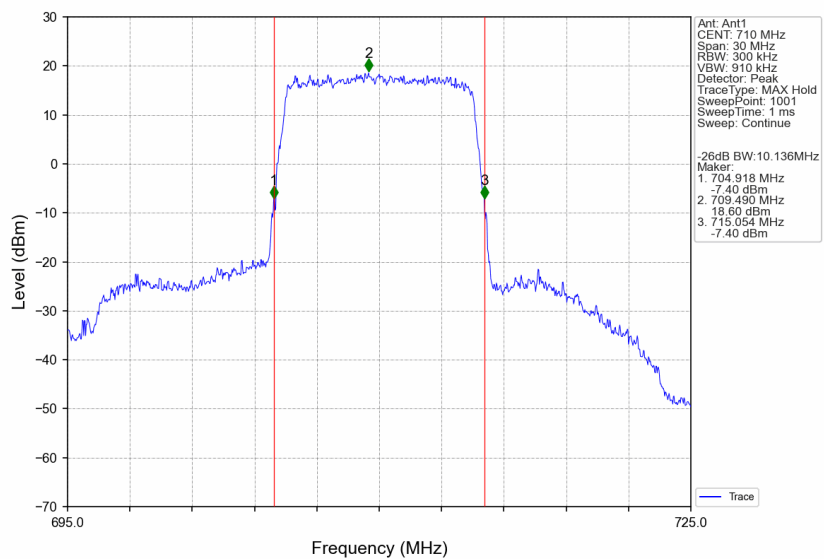
Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



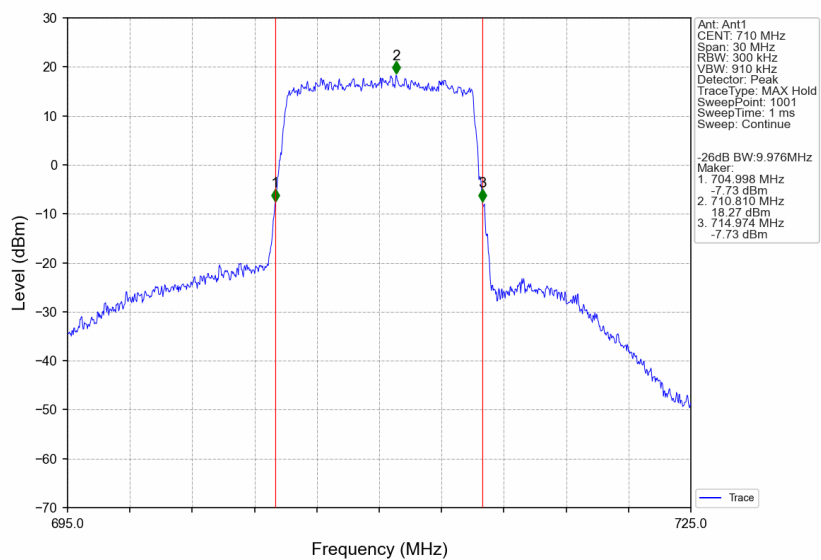
3.2.2 Band17_XDB



Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



4. Peak-Average Ratio

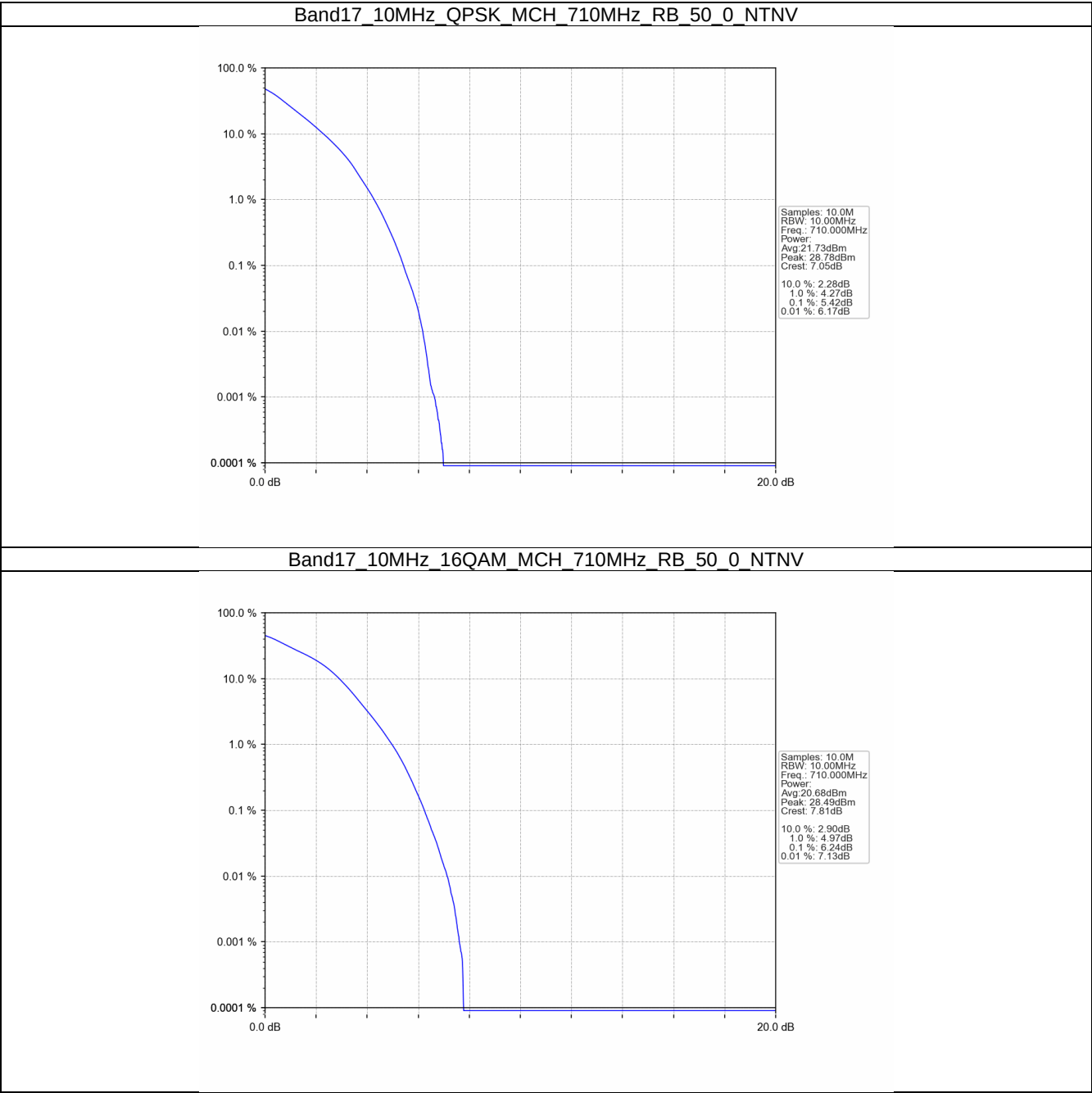
4.1 Test Result

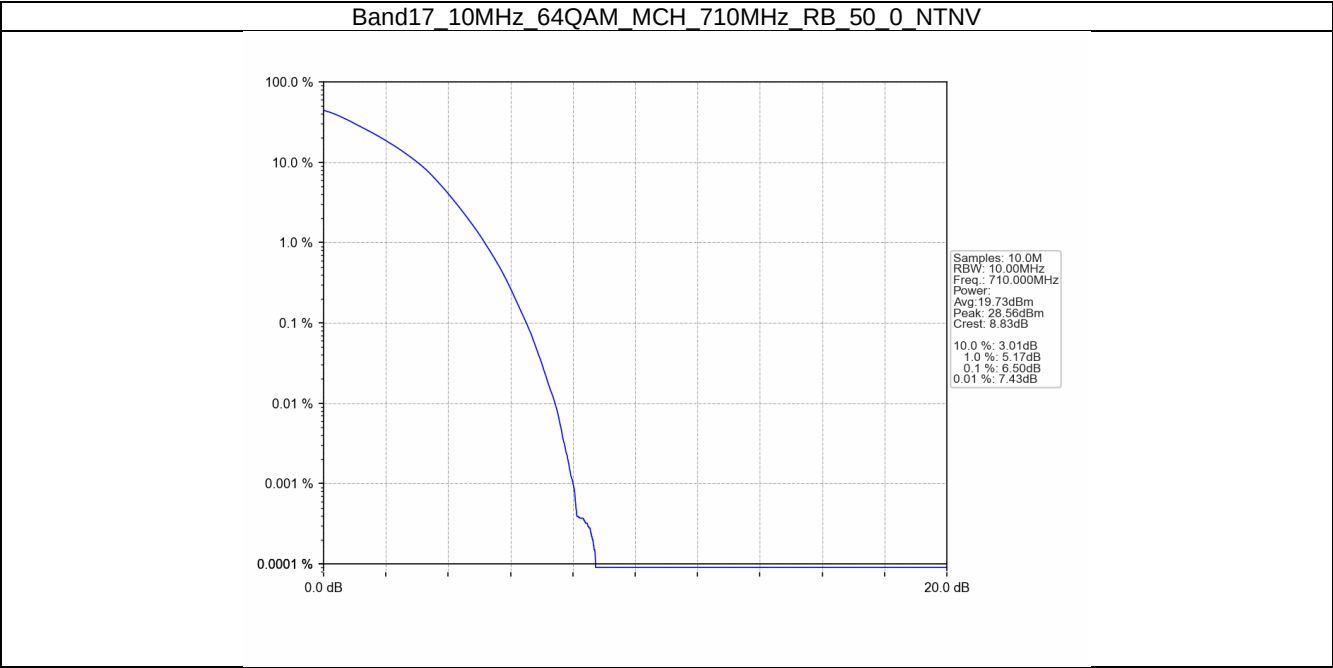
4.1.1 B17_10MHz

Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	710	50	0	5.42	<=13	Pass
16QAM	710	50	0	6.24	<=13	Pass
64QAM	710	50	0	6.50	<=13	Pass

4.2 Test Graph

4.2.1 B17_10MHz





5. Spurious Emission

5.1 Test Result

5.1.1 B17_5MHz

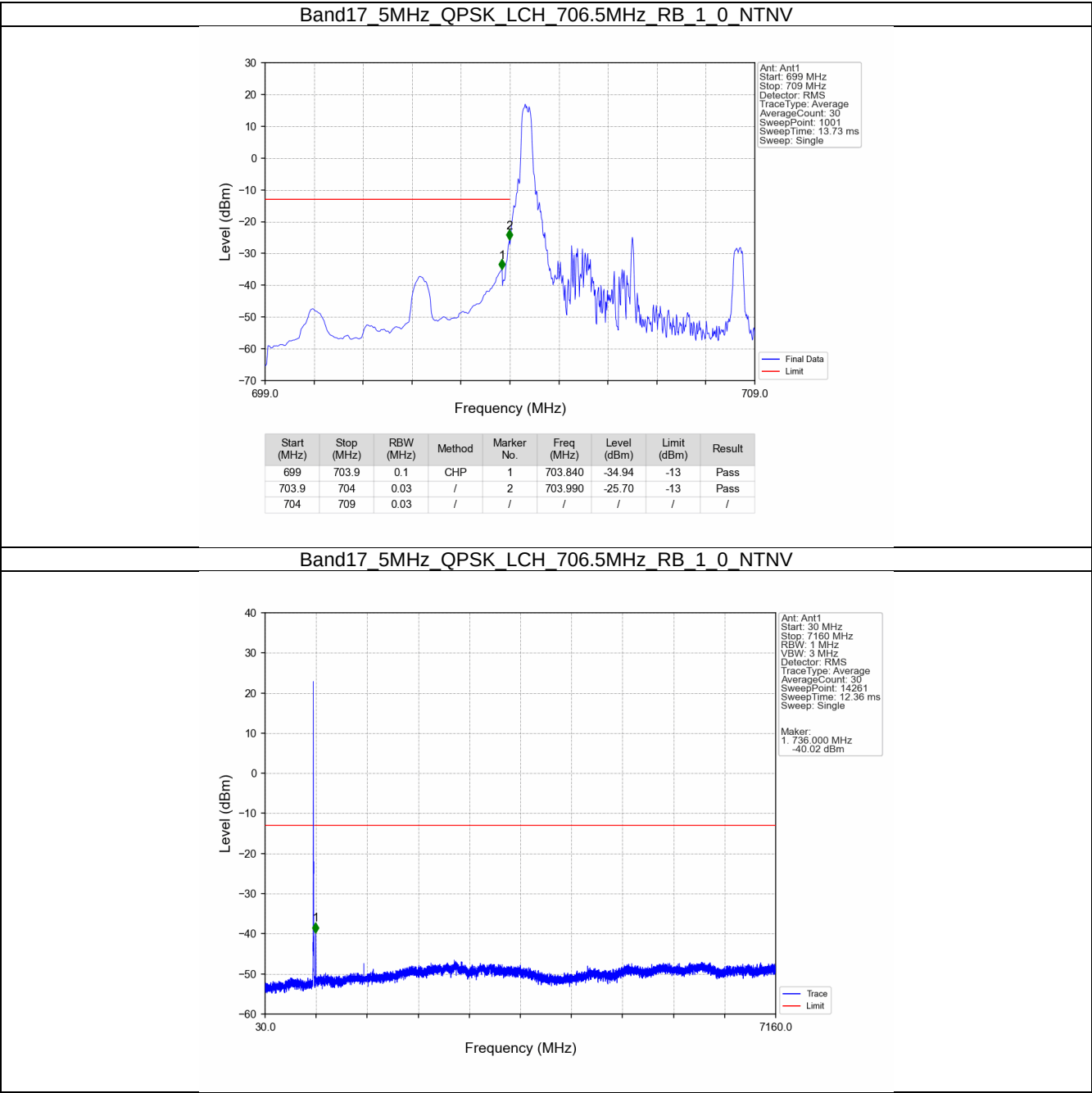
Band: 17 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test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

5.1.2 B17_10MHz

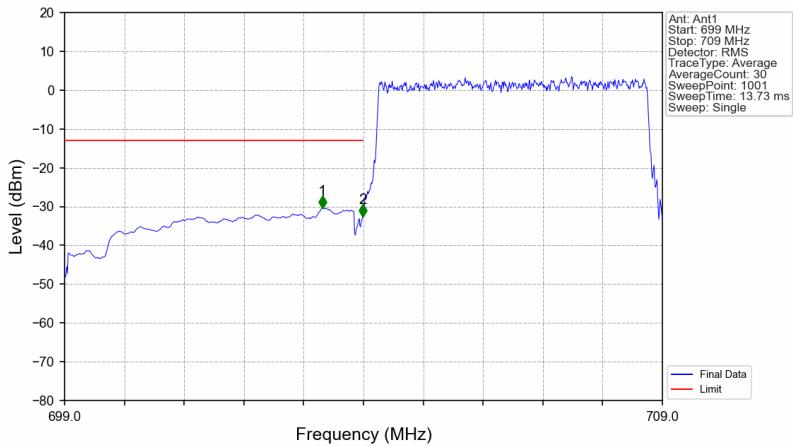
Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	709	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
	711	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph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

5.2 Test Graph

5.2.1 B17_5MHz

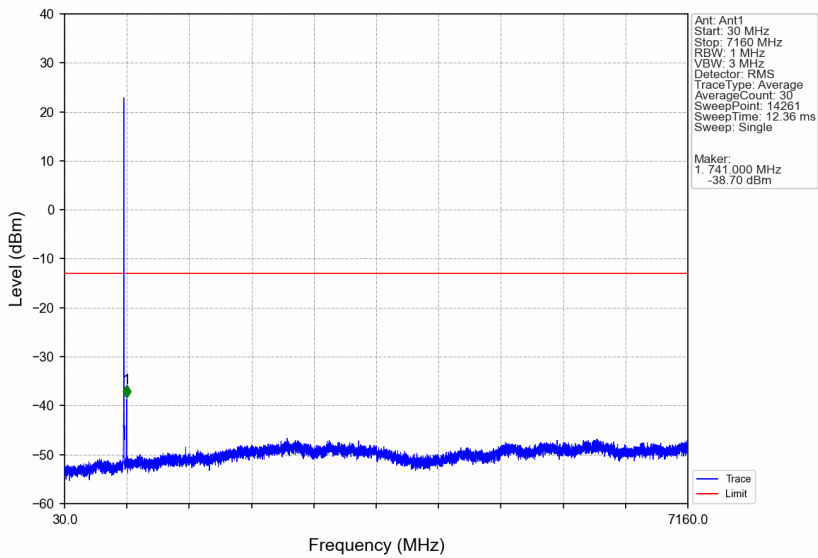


Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV

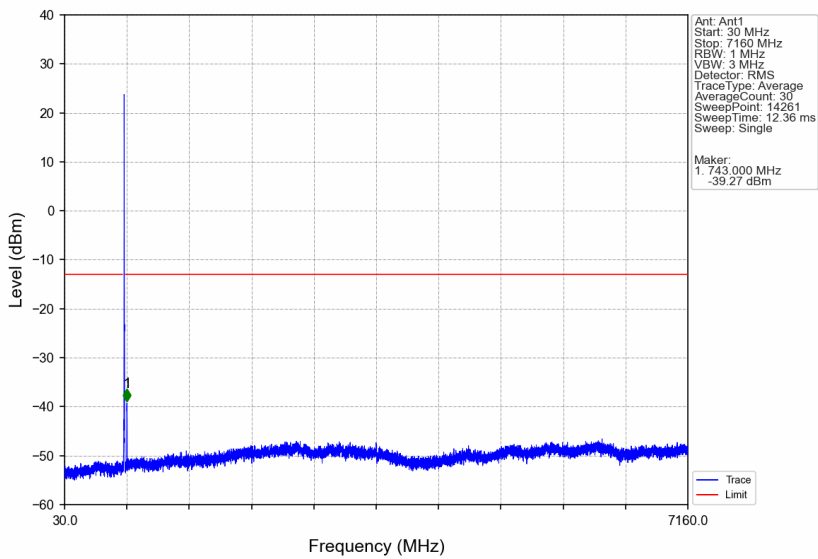


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.310	-30.43	-13	Pass
703.9	704	0.03	/	2	703.990	-32.53	-13	Pass
704	709	0.03	/	/	/	/	/	/

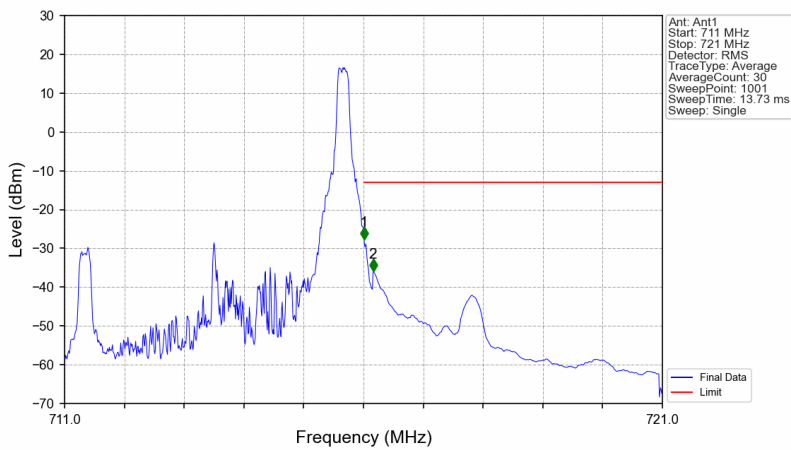
Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

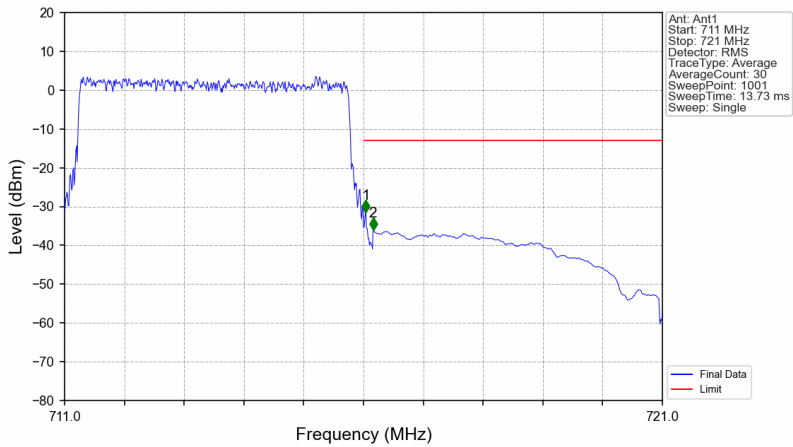


Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



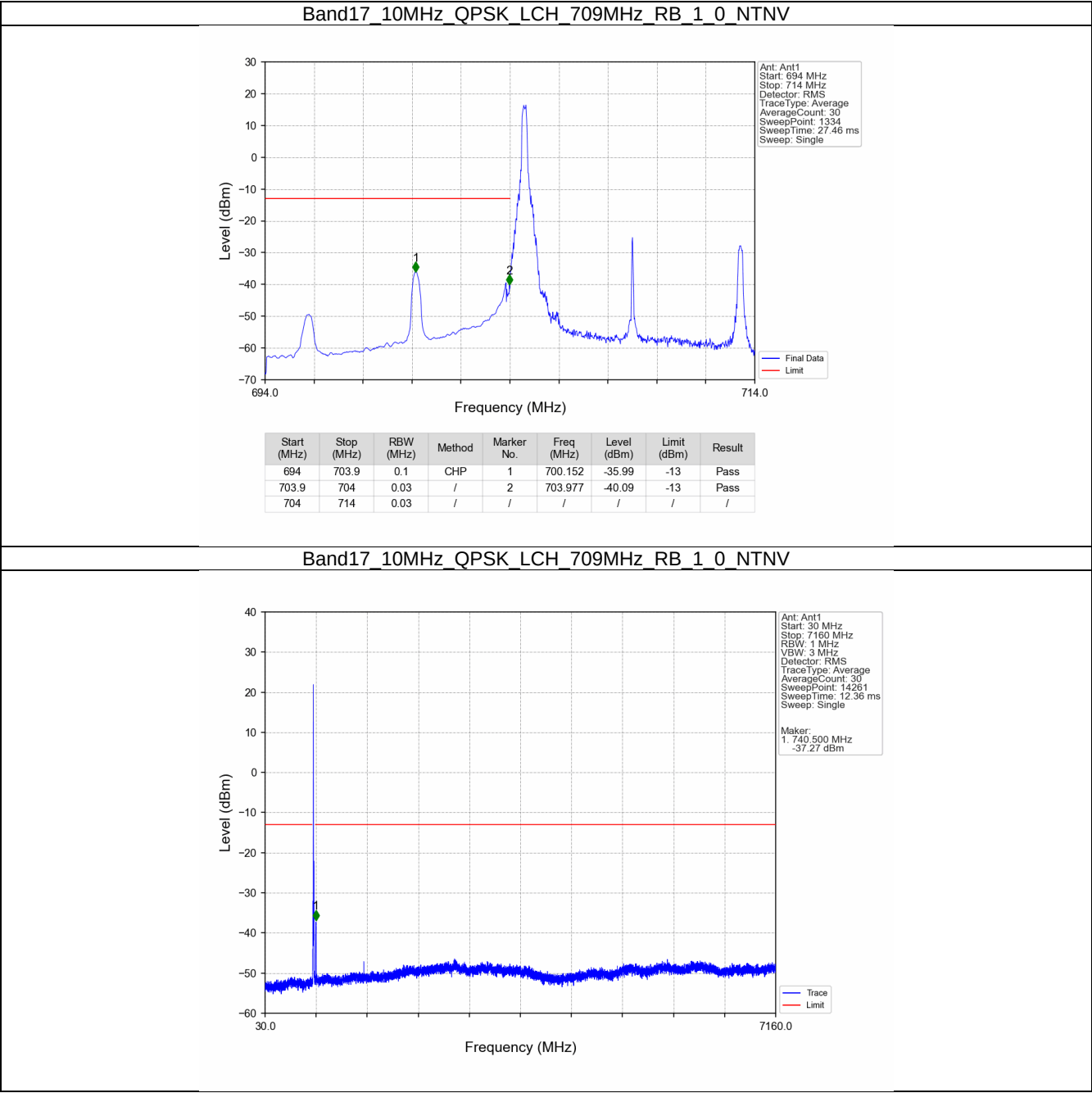
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-27.73	-13	Pass
716.1	721	0.1	CHP	2	716.160	-35.81	-13	Pass

Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV

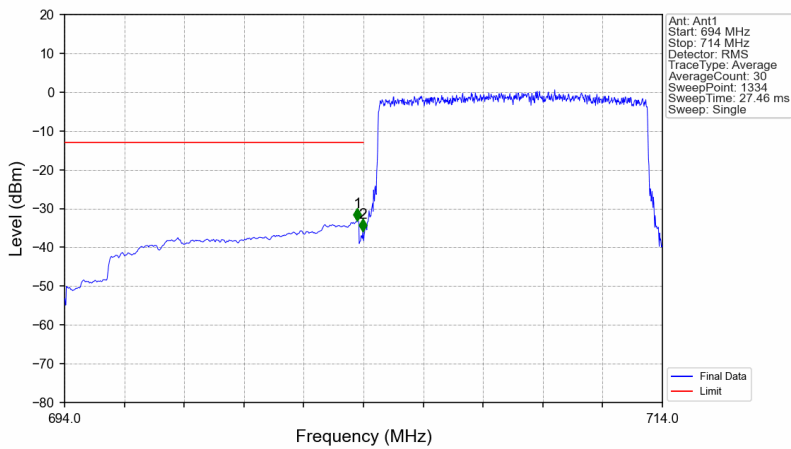


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.040	-31.50	-13	Pass
716.1	721	0.1	CHP	2	716.160	-36.08	-13	Pass

5.2.2 B17_10MHz

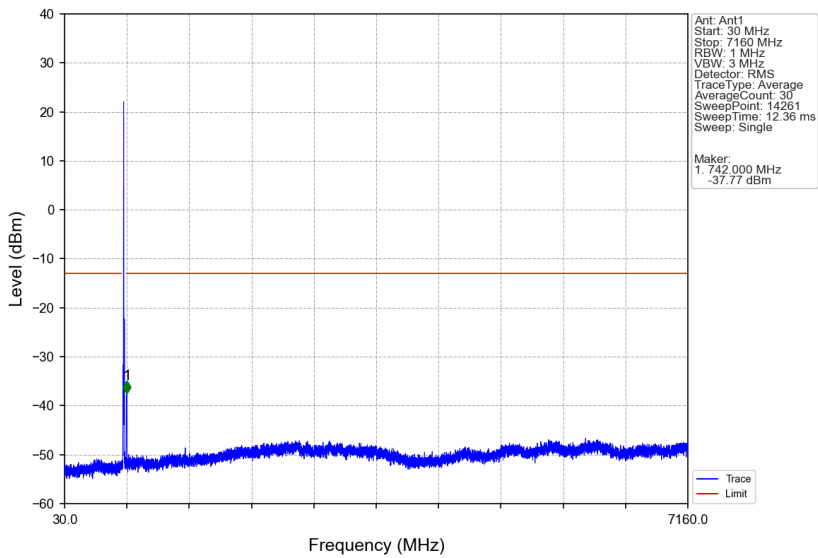


Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV

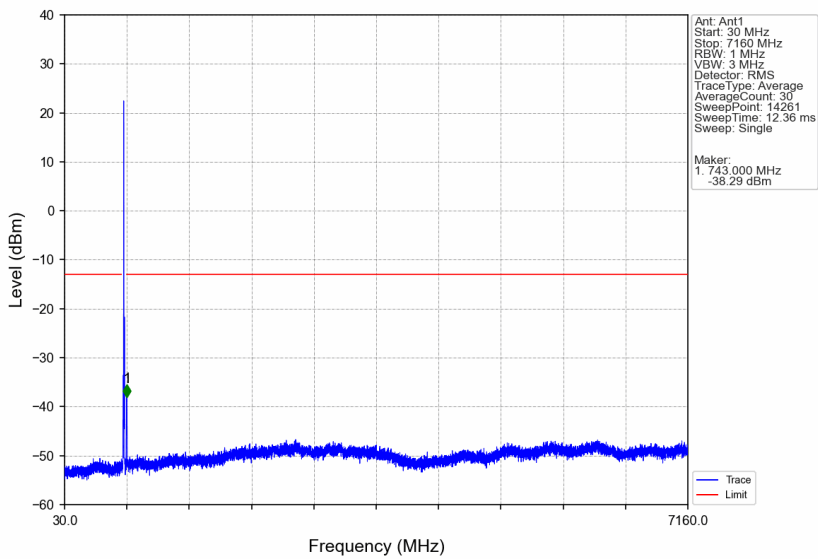


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.797	-33.21	-13	Pass
703.9	704	0.03	/	2	703.977	-35.87	-13	Pass
704	714	0.03	/	/	/	/	/	/

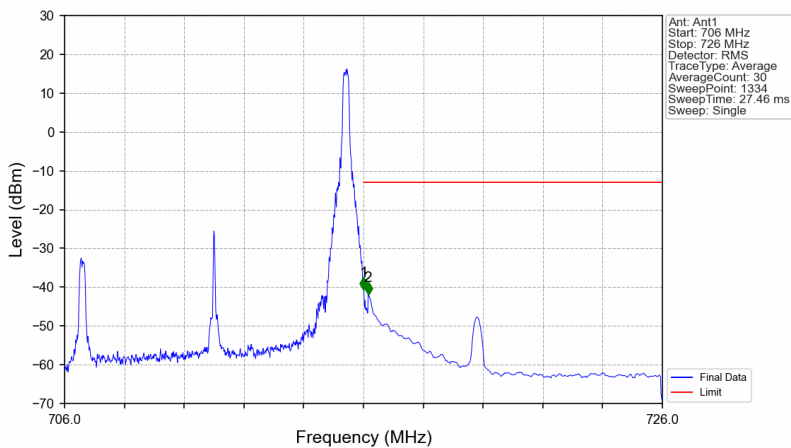
Band17_10MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



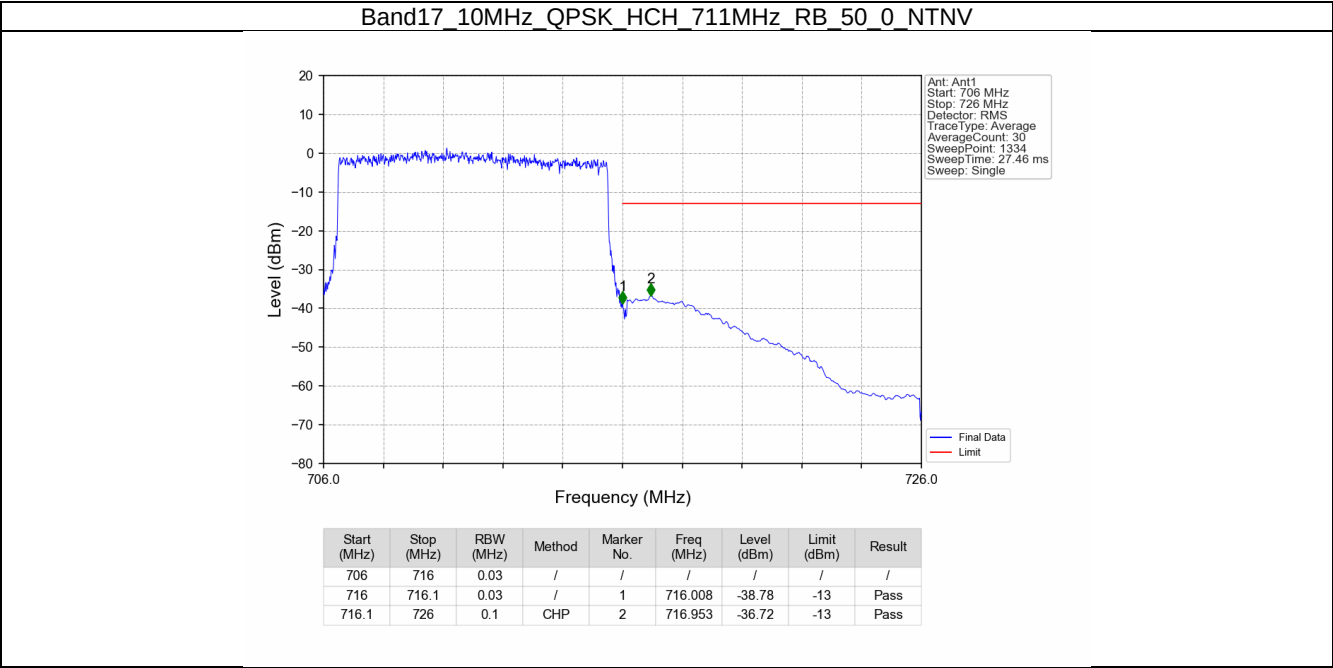
Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



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	-40.58	-13	Pass
716.1	726	0.1	CHP	2	716.158	-41.93	-13	Pass



---End of Attachment---