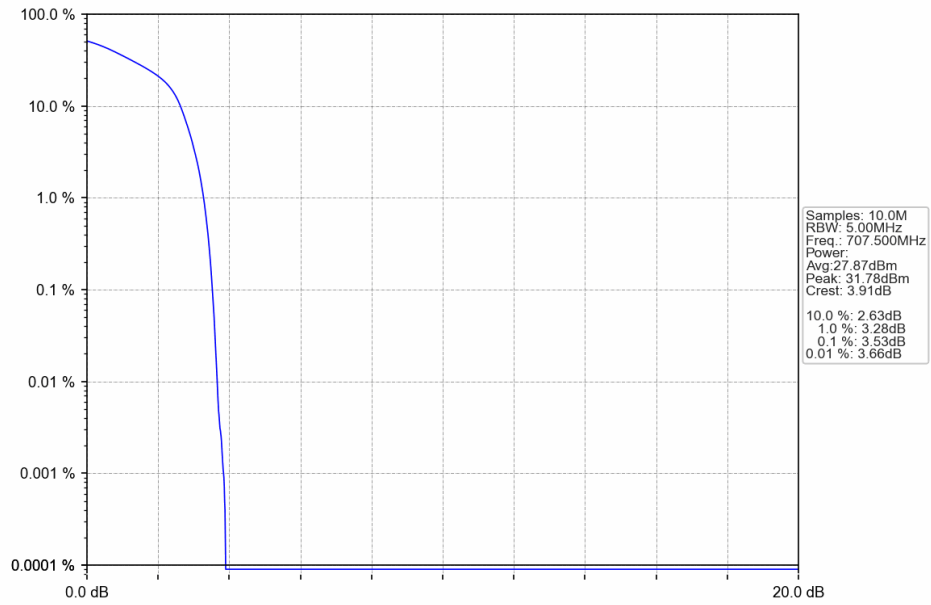
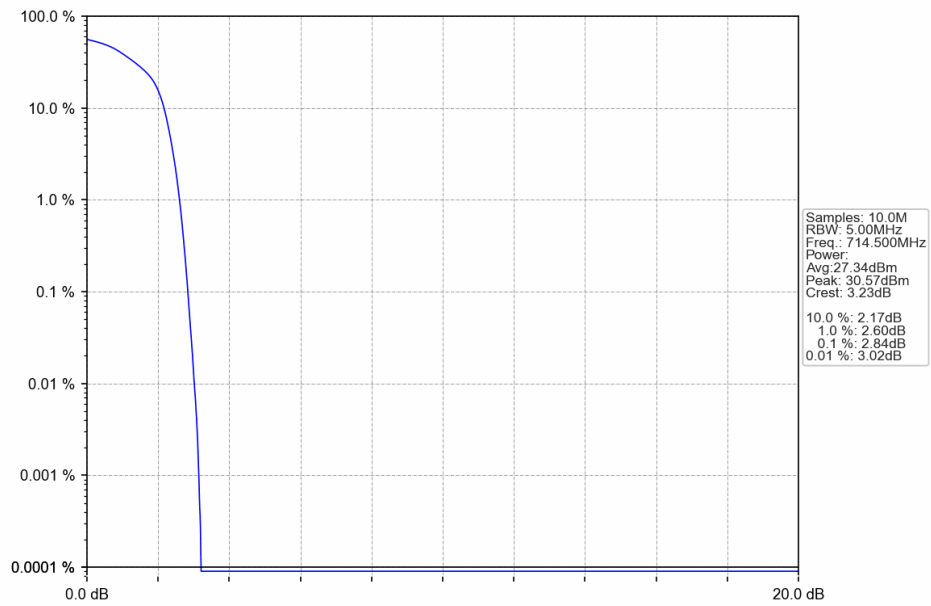


Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV

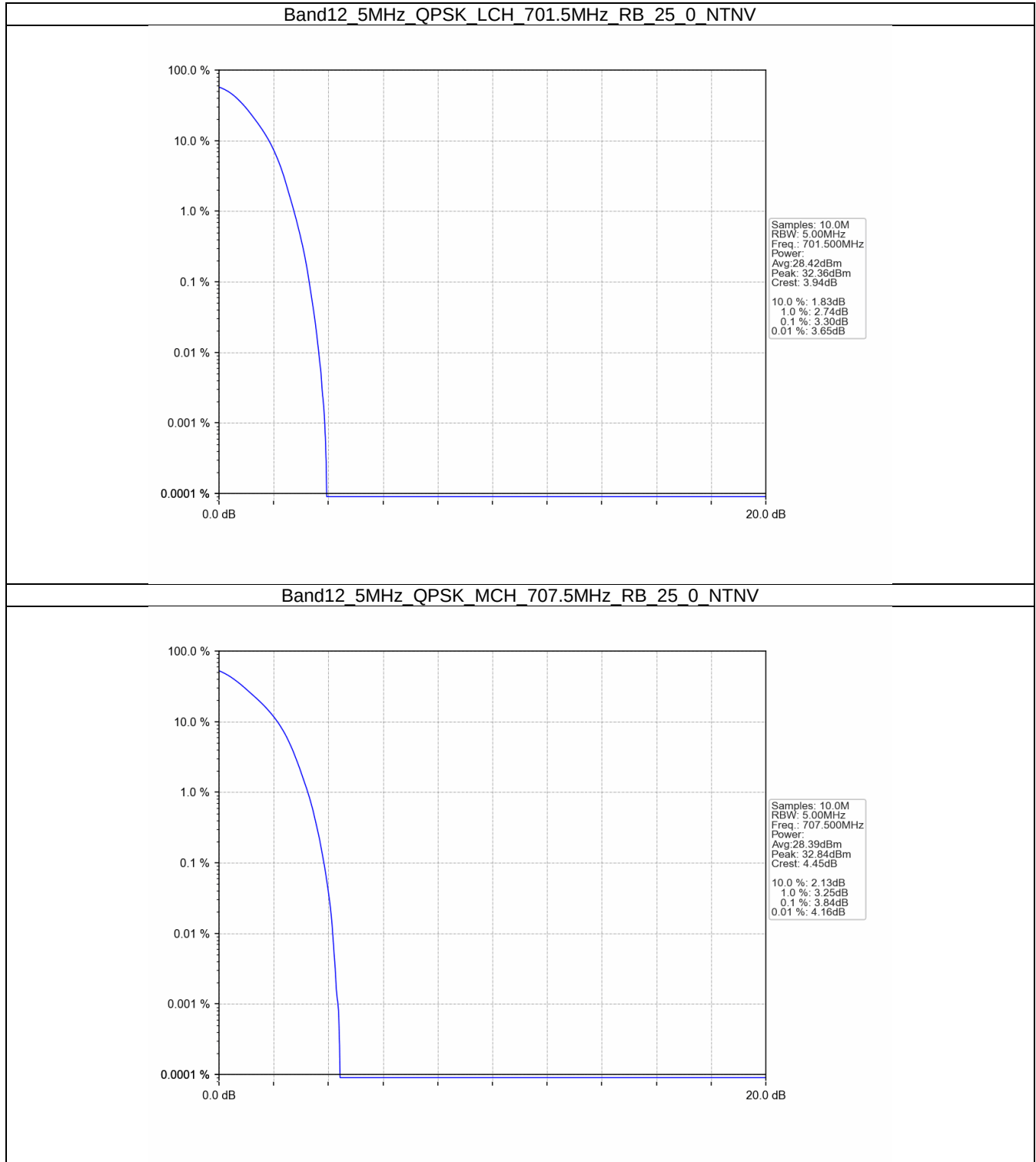


5.3 B12_5MHz

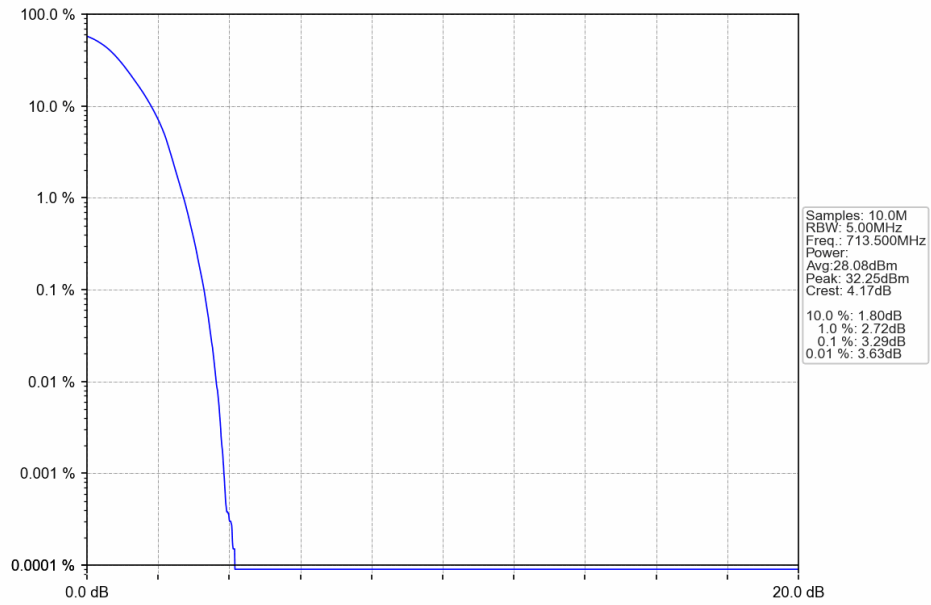
5.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	3.30	<=13	Pass
	707.5	25	0	3.84	<=13	Pass
	713.5	25	0	3.29	<=13	Pass
16QAM	701.5	25	0	3.59	<=13	Pass
	707.5	25	0	4.10	<=13	Pass
	713.5	25	0	3.56	<=13	Pass

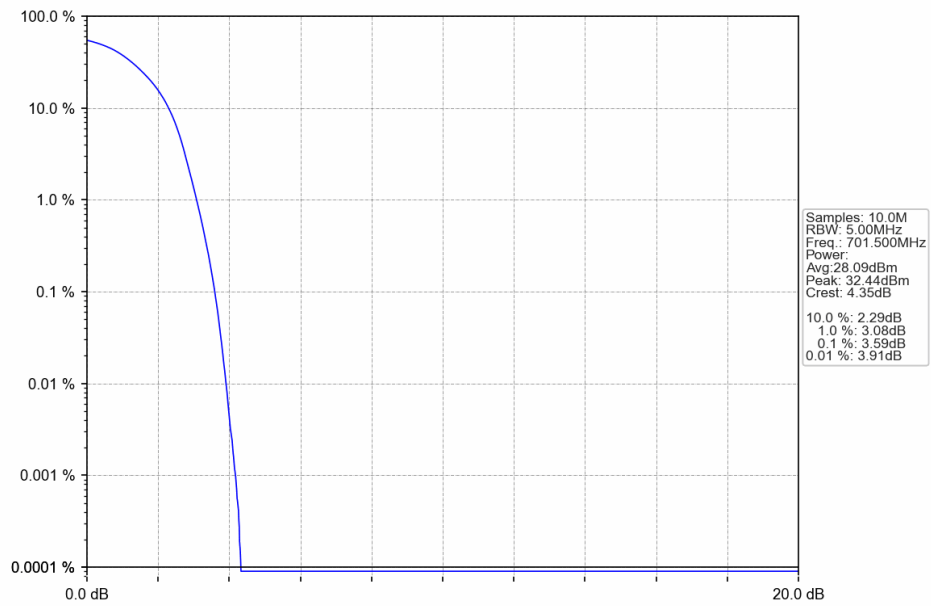
5.3.2 Test Graph



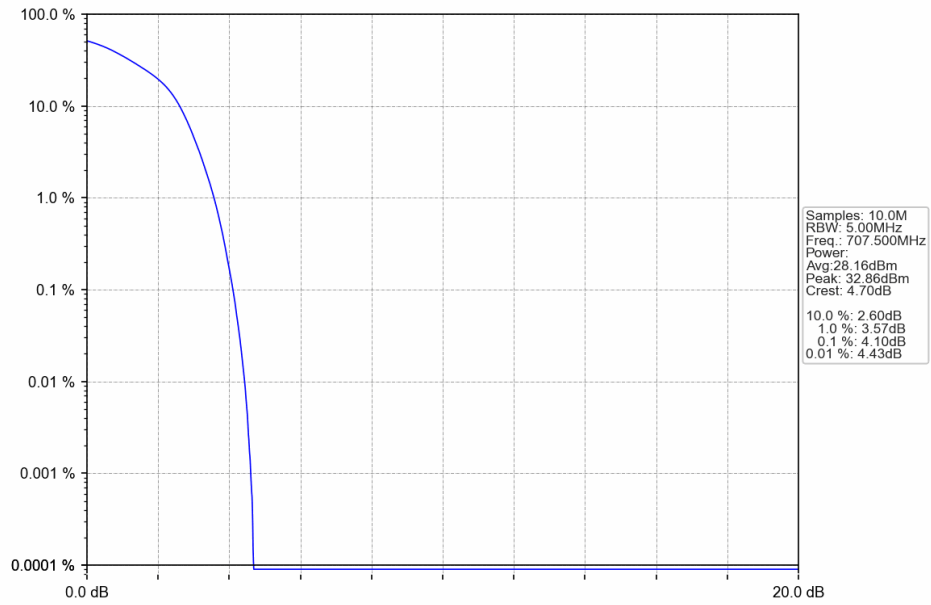
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



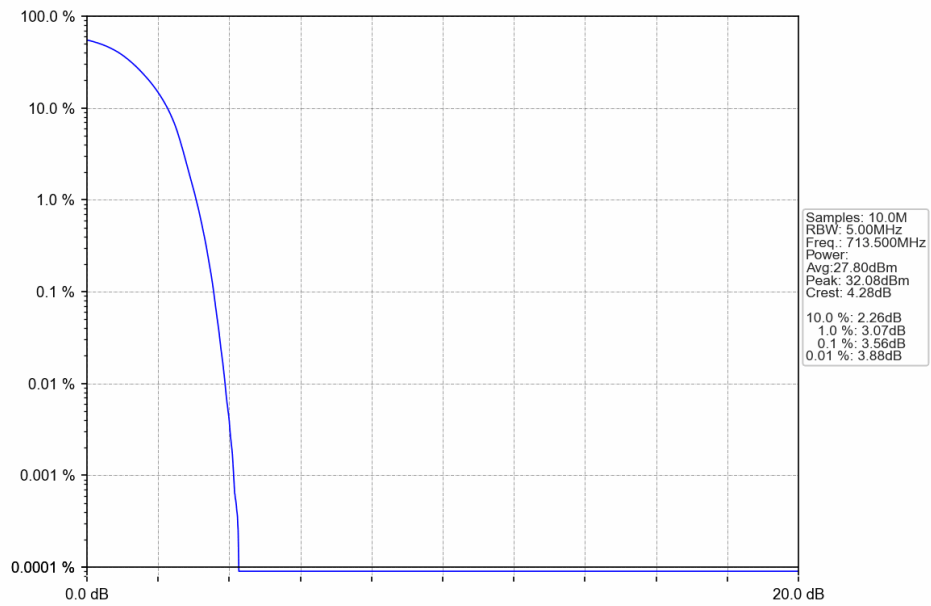
Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV

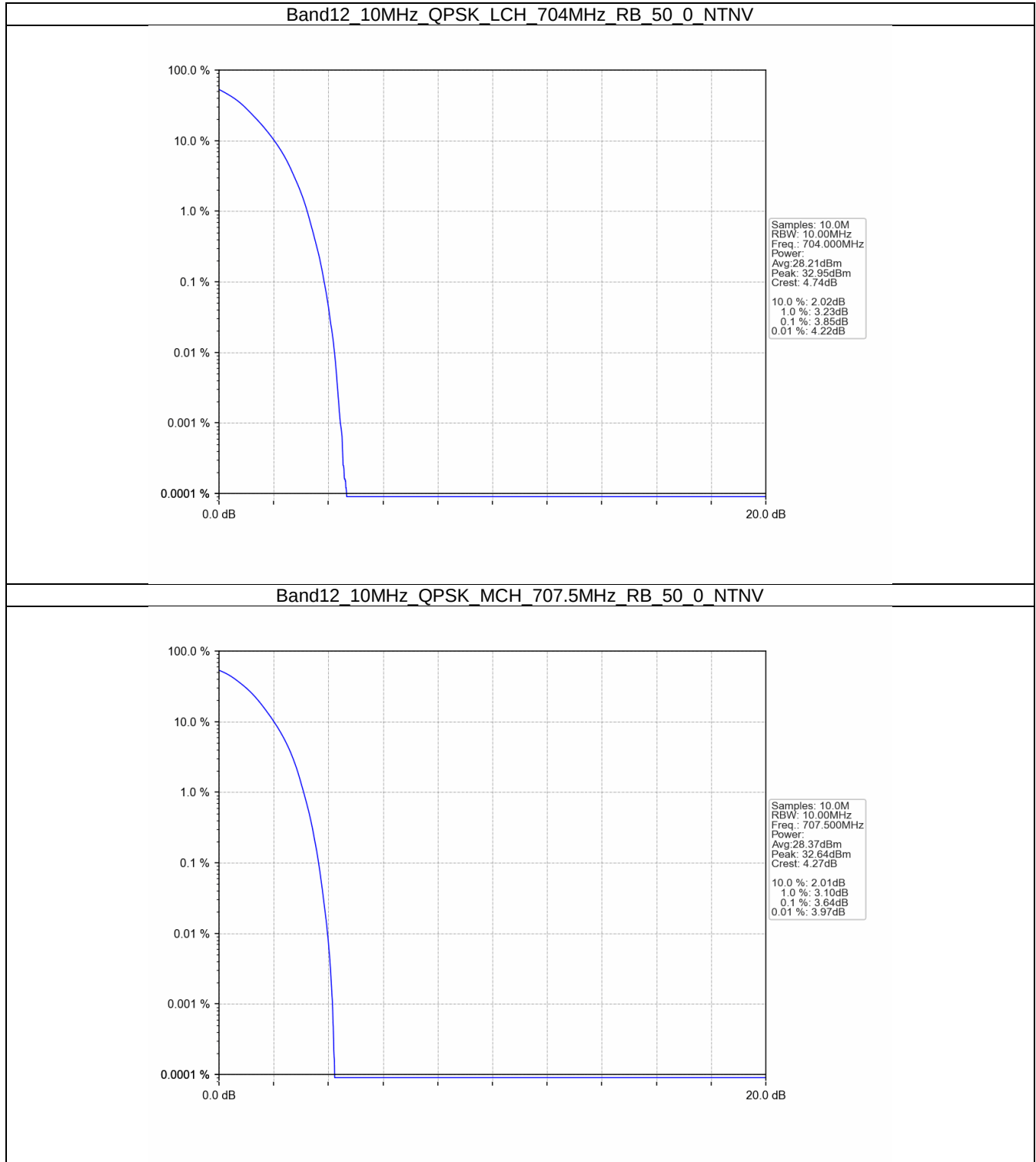


5.4 B12_10MHz

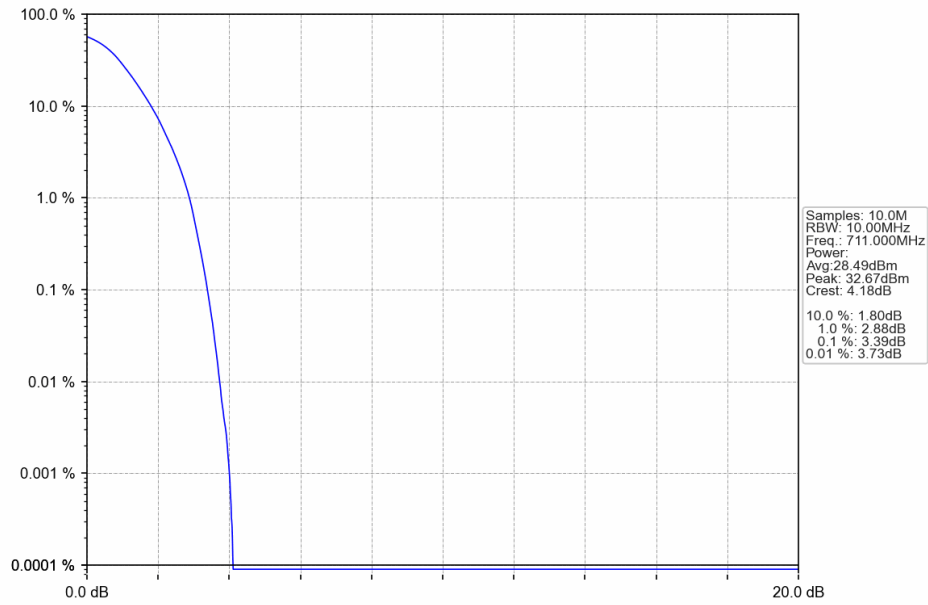
5.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	704	50	0	3.85	<=13	Pass
	707.5	50	0	3.64	<=13	Pass
	711	50	0	3.39	<=13	Pass
16QAM	704	50	0	4.17	<=13	Pass
	707.5	50	0	3.95	<=13	Pass
	711	50	0	3.75	<=13	Pass

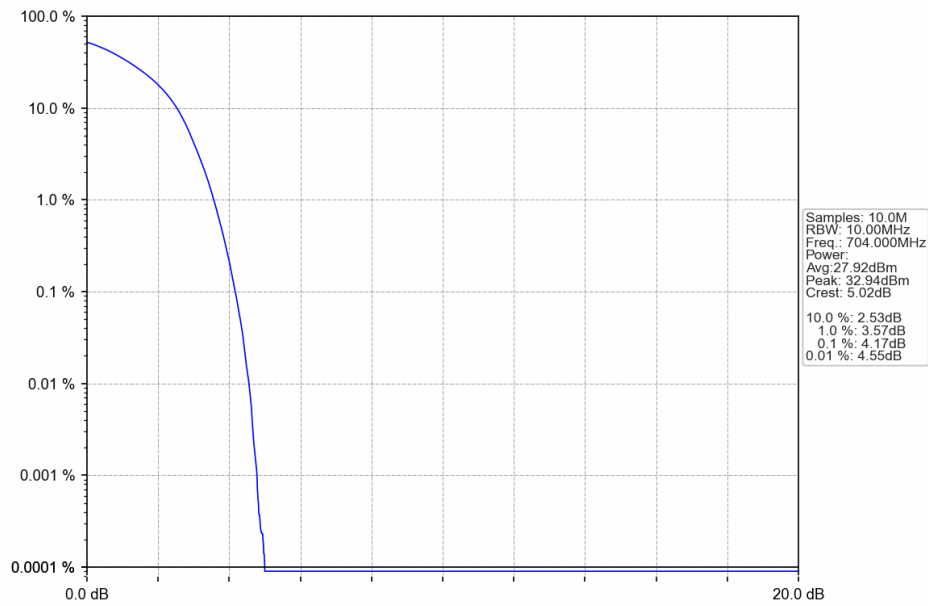
5.4.2 Test Graph



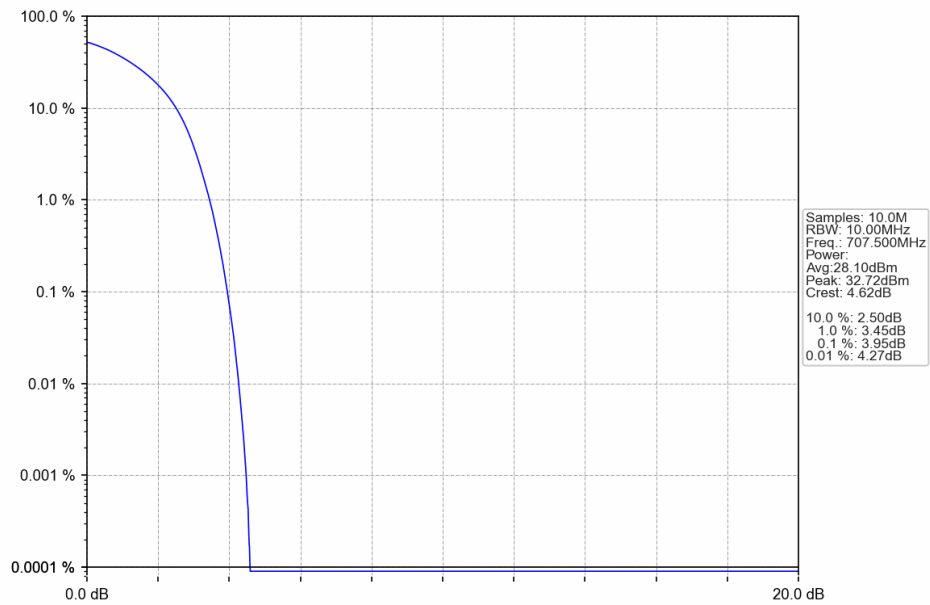
Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



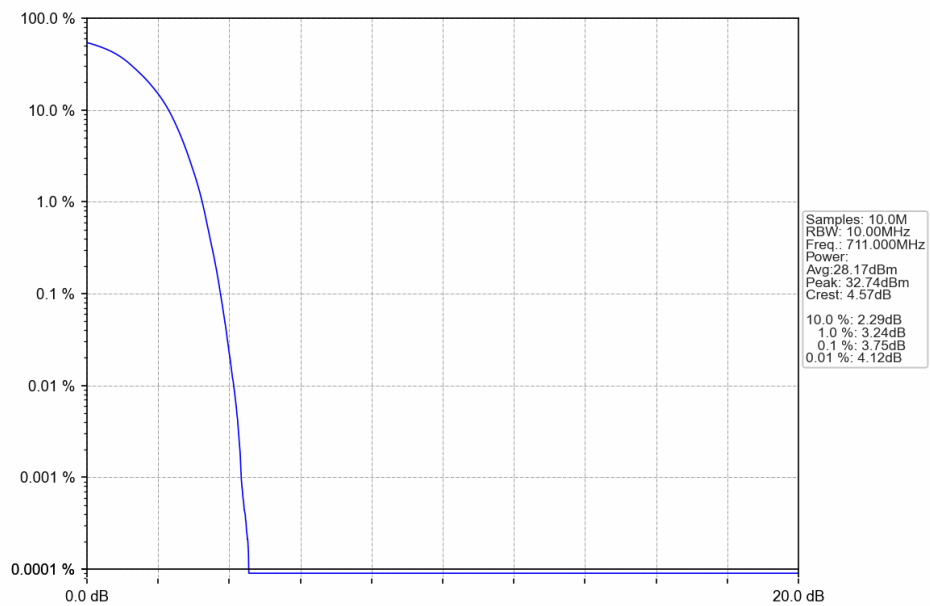
Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



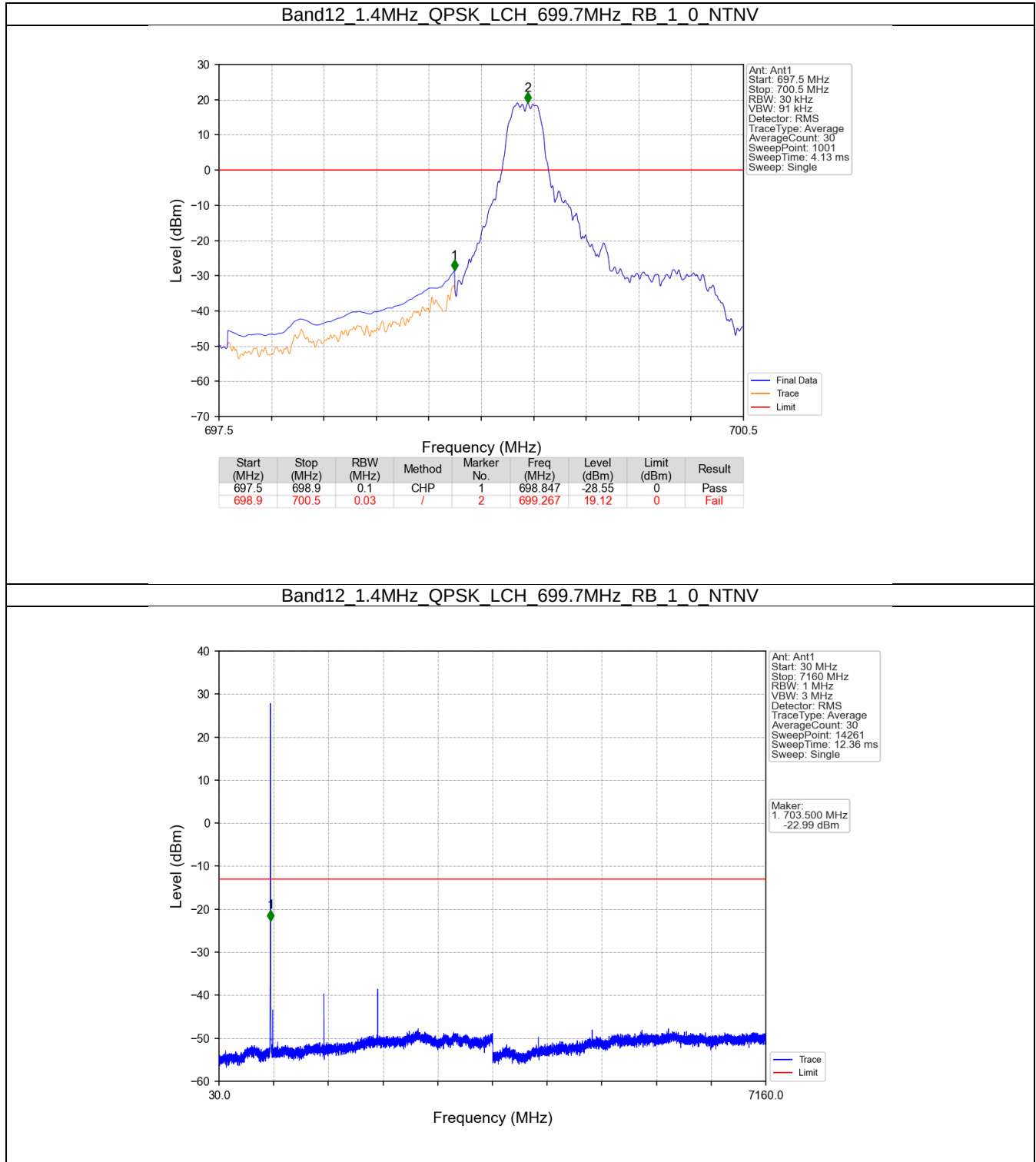
6. Spurious Emission

6.1 B12_1.4MHz

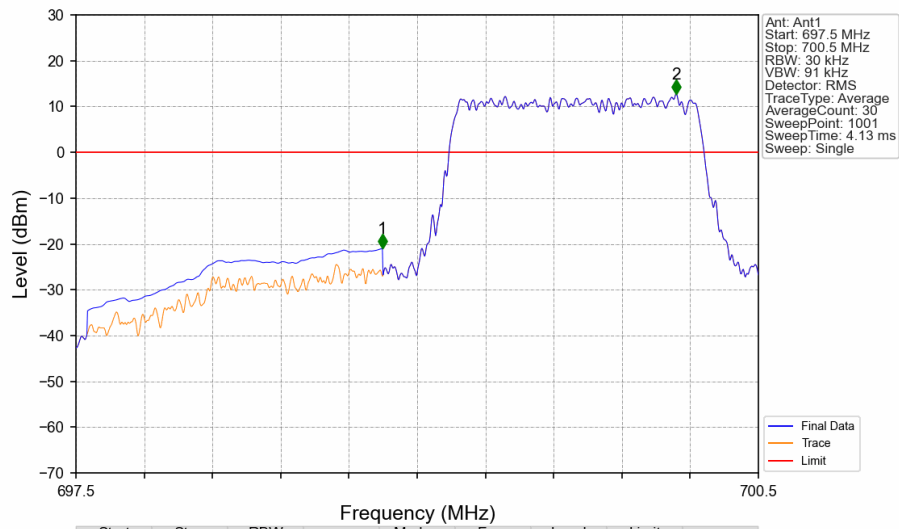
6.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	1	0	Refer To Test Graph		Init
		6	0	Refer To Test Graph		Init
	707.5	1	0	Refer To Test Graph		Init
	715.3	1	0	Refer To Test Graph		Init
			5	Refer To Test Graph		Init
		6	0	Refer To Test Graph		Init
16QAM	699.7	1	0	Refer To Test Graph		Init
		6	0	Refer To Test Graph		Init
	707.5	1	0	Refer To Test Graph		Init
	715.3	1	0	Refer To Test Graph		Init
			5	Refer To Test Graph		Init
		6	0	Refer To Test Graph		Init

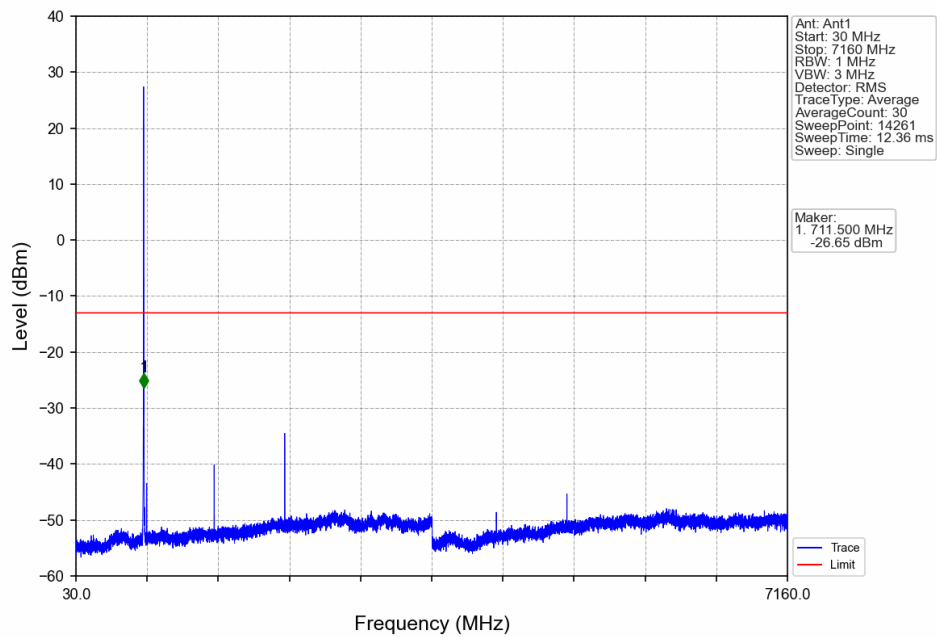
6.1.2 Test Graph



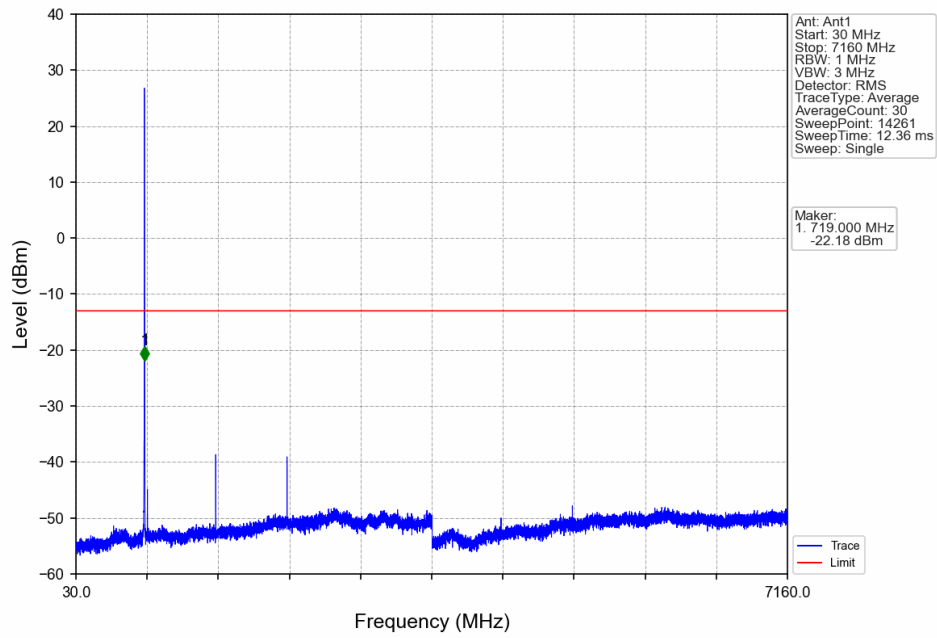
Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



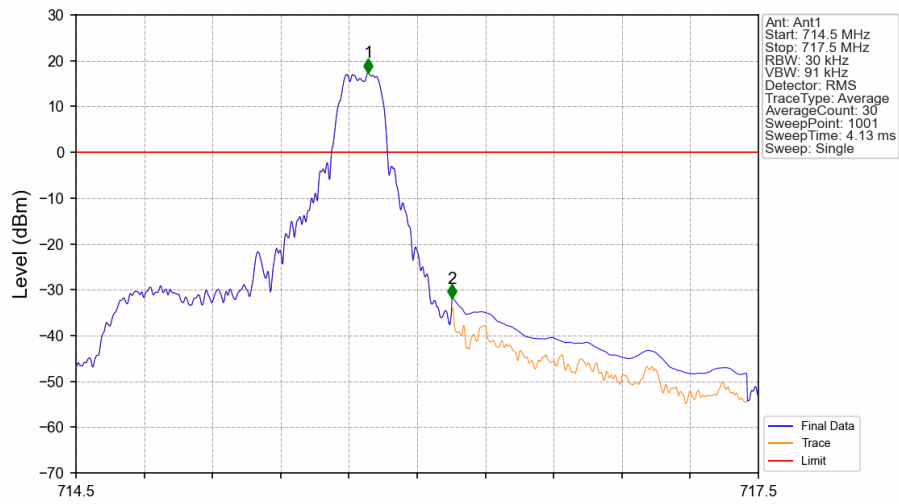
Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV

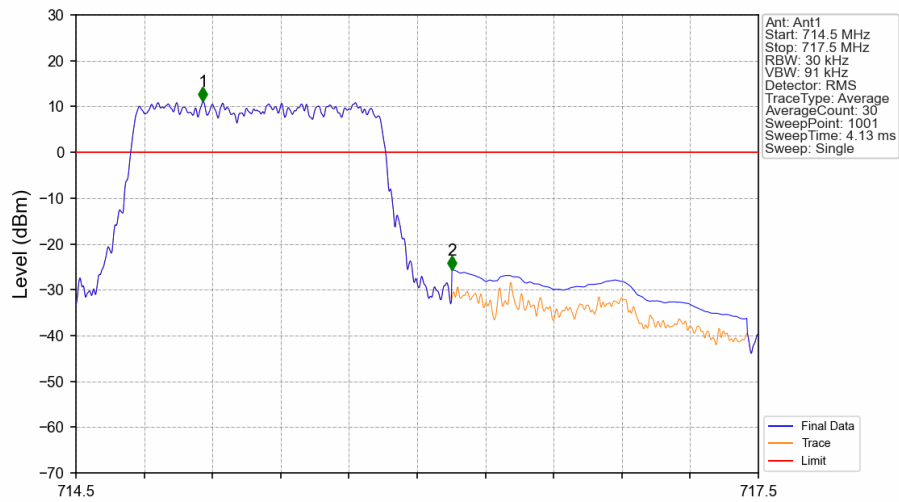


Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_5_NTNV



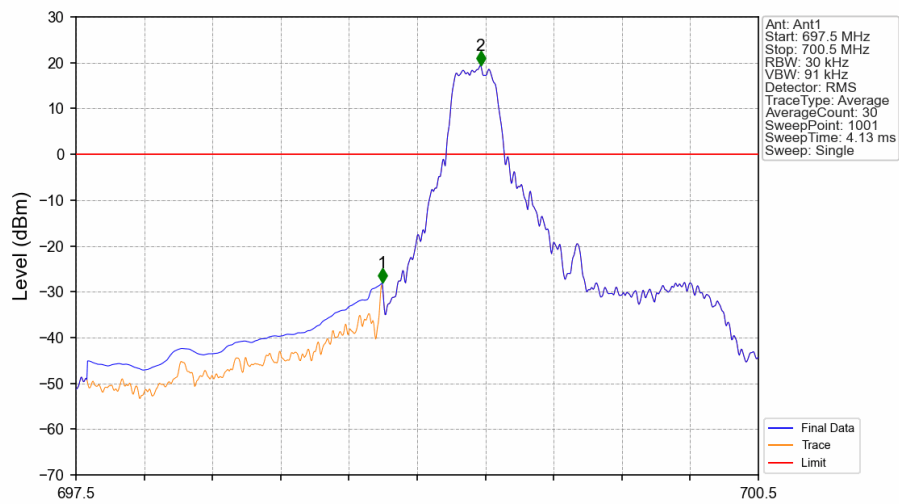
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716.1	0.03	/	1	715.784	17.38	0	Fail
716.1	717.5	0.1	CHP	2	716.153	-31.88	0	Pass

Band12 1.4MHz QPSK HCH 715.3MHz RB 6 0 NTNV



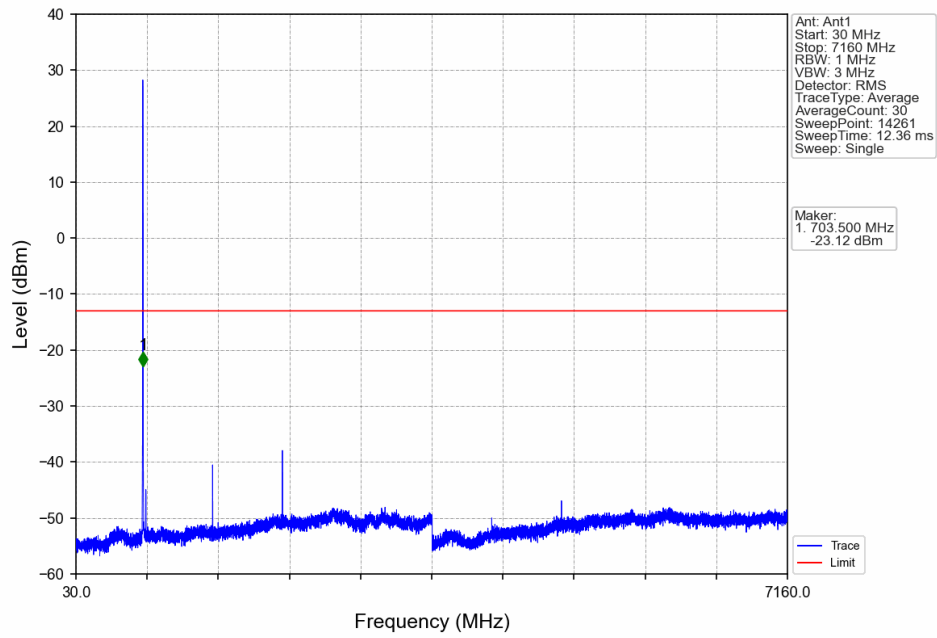
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716.1	0.03	/	1	715.058	11.12	0	Fail
716.1	717.5	0.1	CHP	2	716.153	-25.69	0	Pass

Band12 1.4MHz 16QAM LCH 699.7MHz RB 1 0 NTNV

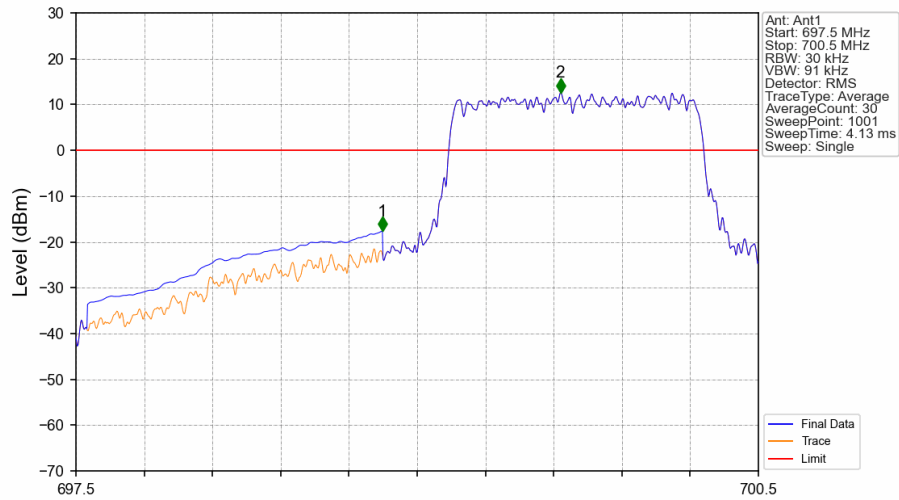


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-28.05	0	Pass
698.9	700.5	0.03	/	2	699.279	19.39	0	Fail

Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV

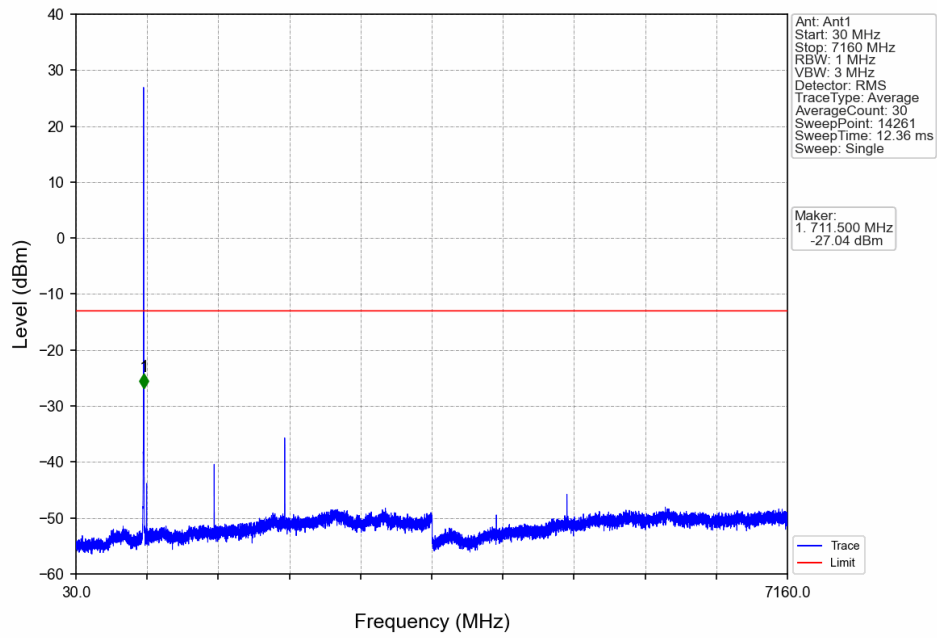


Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV

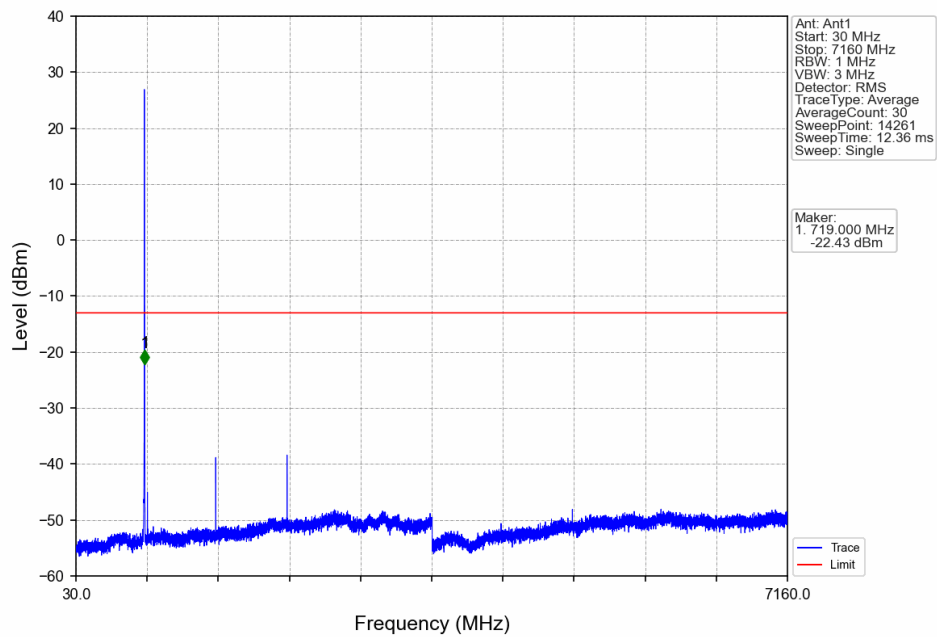


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.847	-17.57	0	Pass
698.9	700.5	0.03	/	2	699.630	12.62	0	Fail

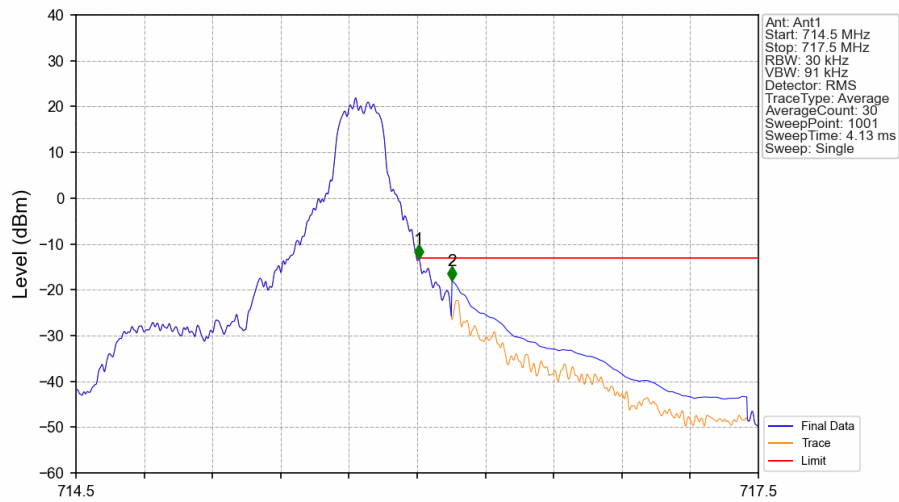
Band12_1.4MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



Band12_1.4MHz_16QAM_HCH_715.3MHz_RB_1_0_NTNV

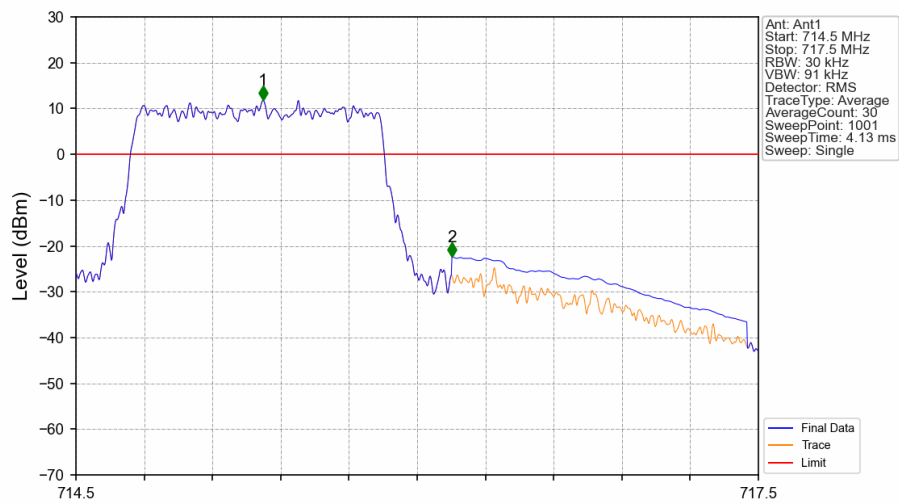


Band12 1.4MHz 16QAM HCH 715.3MHz RB 1 5 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	1	716.006	-13.32	-13	Pass
716	716.1	0.03	/	1	716.006	-13.32	-13	Pass
716.1	717.5	0.1	CHP	2	716.153	-18.09	-13	Pass

Band12 1.4MHz 16QAM HCH 715.3MHz RB 6 0 NTNV



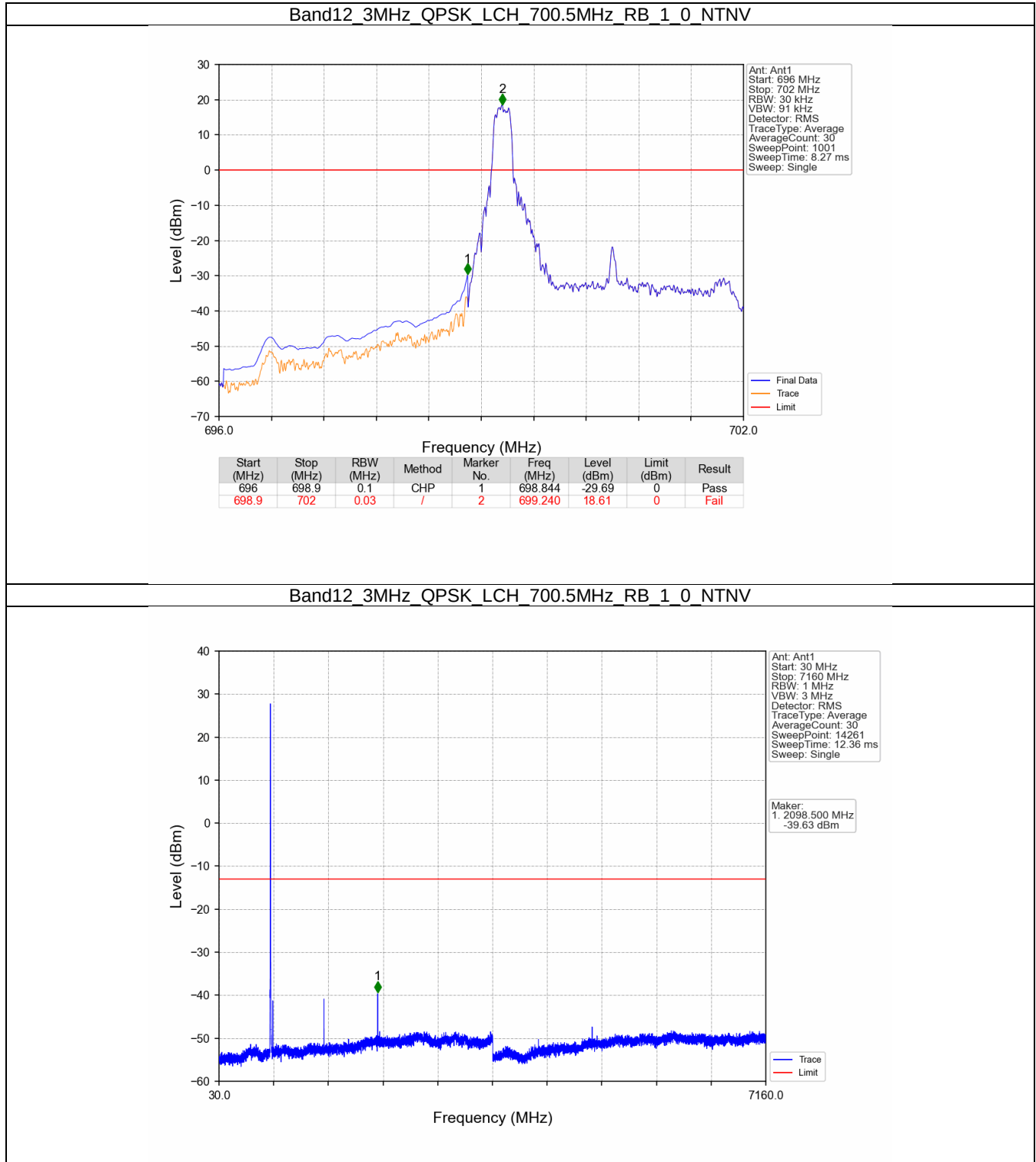
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716.1	0.03	/	1	715.322	11.81	0	Fail
716.1	717.5	0.1	CHP	2	716.153	-22.35	0	Pass

6.2 B12_3MHz

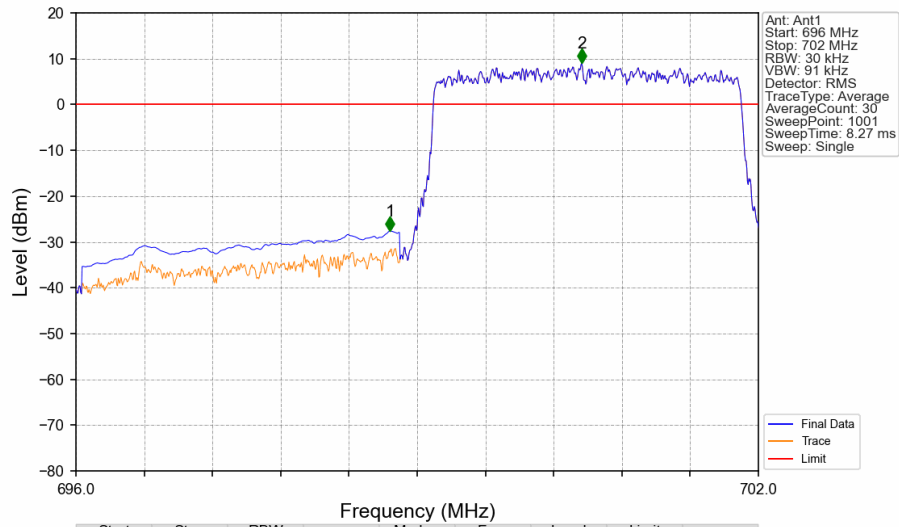
6.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	1	0	Refer To Test Graph		Init
		15	0	Refer To Test Graph		Init
	707.5	1	0	Refer To Test Graph		Init
	714.5	1	0	Refer To Test Graph		Init
			14	Refer To Test Graph		Init
		15	0	Refer To Test Graph		Init
16QAM	700.5	1	0	Refer To Test Graph		Init
		15	0	Refer To Test Graph		Init
	707.5	1	0	Refer To Test Graph		Init
	714.5	1	0	Refer To Test Graph		Init
			14	Refer To Test Graph		Init
		15	0	Refer To Test Graph		Init

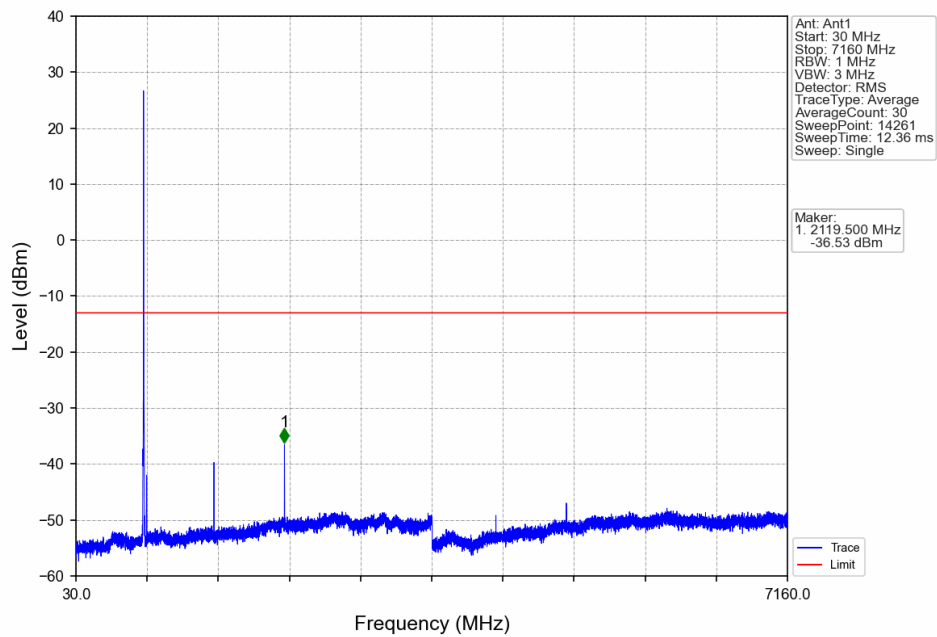
6.2.2 Test Graph



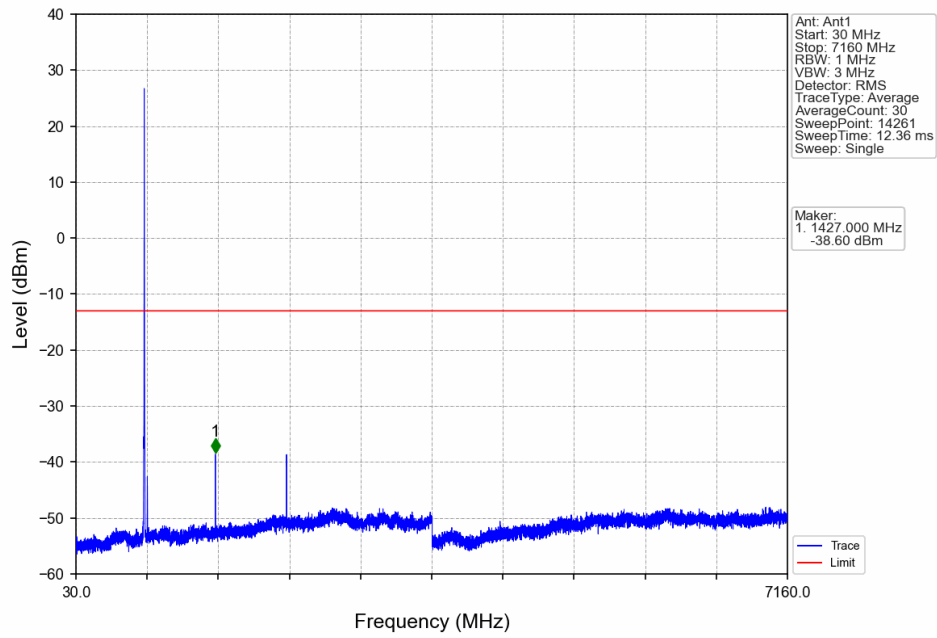
Band12_3MHz_QPSK_LCH_700.5MHz_RB_15_0_NTNV



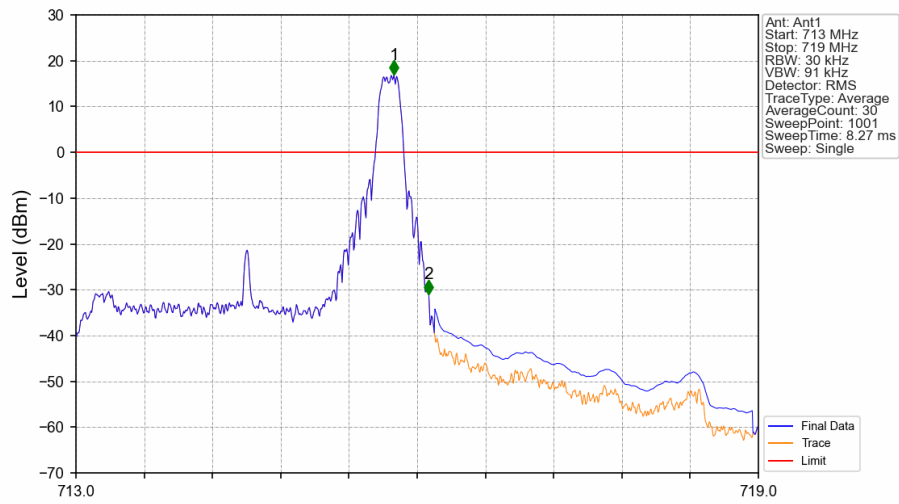
Band12_3MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_0_NTNV

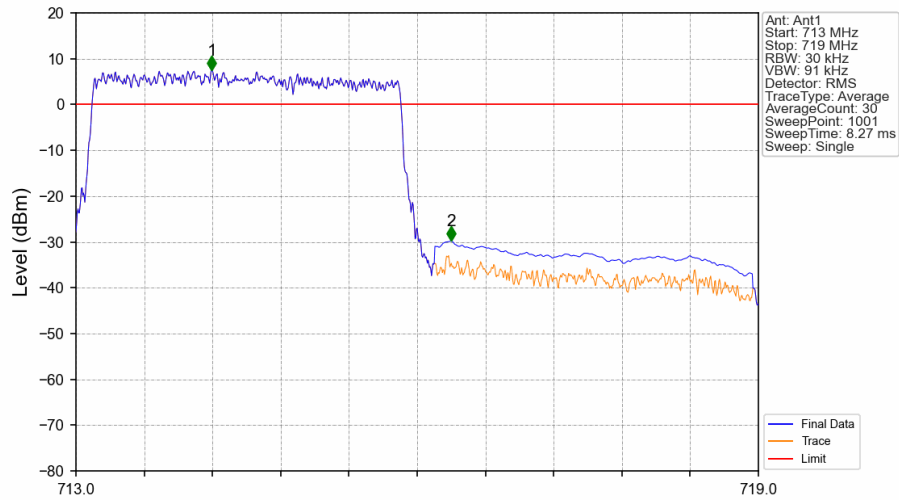


Band12_3MHz_QPSK_HCH_714.5MHz_RB_1_14_NTNV



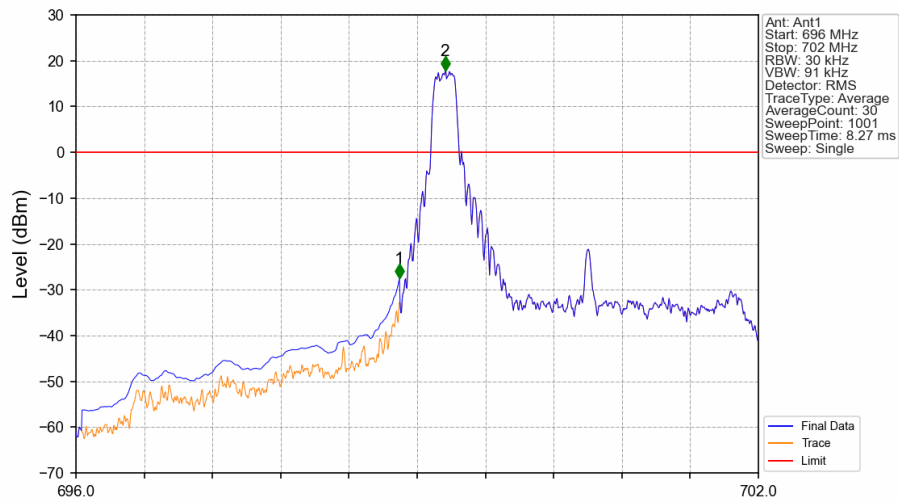
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716.1	0.03	/	1	715.796	16.91	0	Fail
716.1	719	0.1	CHP	2	716.102	-30.95	0	Pass

Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



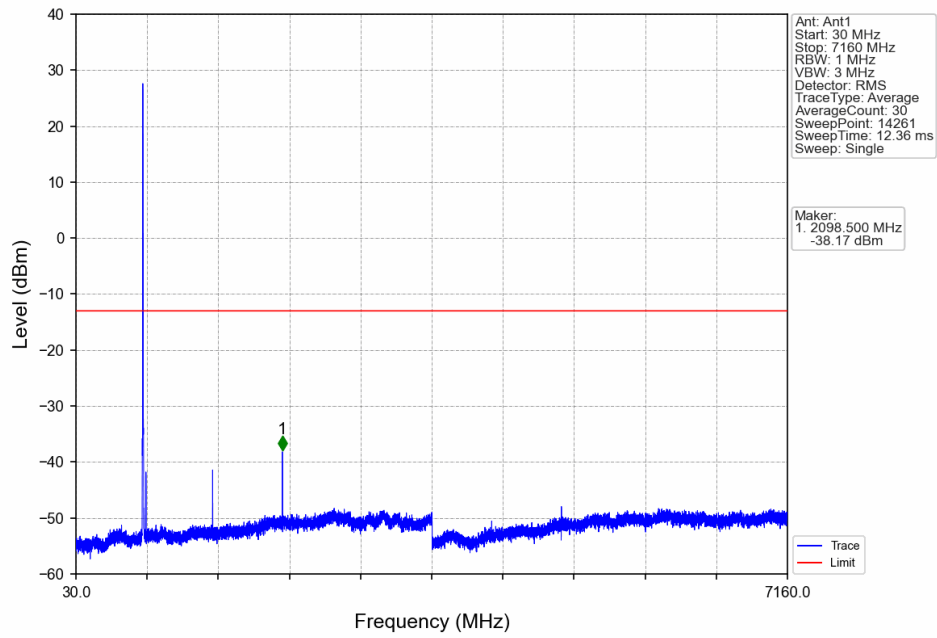
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716.1	0.03	/	1	714.194	7.51	0	Fail
716.1	719	0.1	CHP	2	716.300	-29.78	0	Pass

Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV

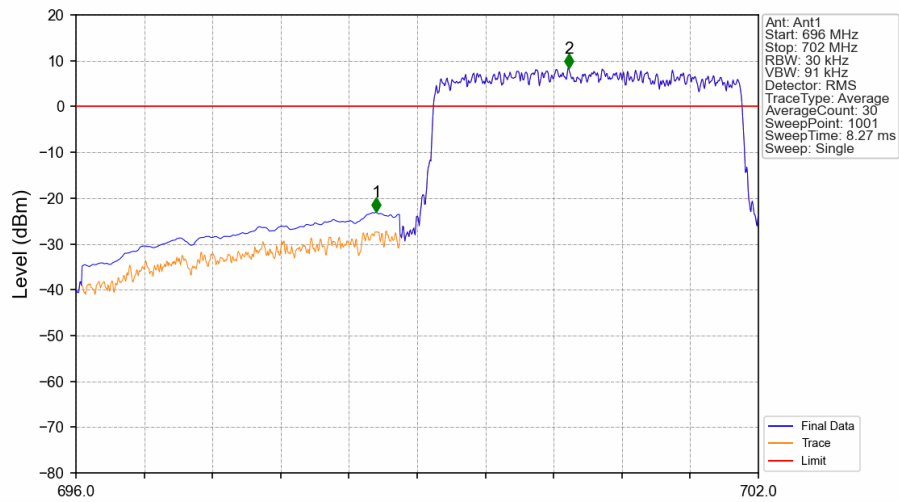


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.844	-27.48	0	Pass
698.9	702	0.03	/	2	699.246	17.79	0	Fail

Band12_3MHz_16QAM_LCH_700.5MHz_RB_1_0_NTNV

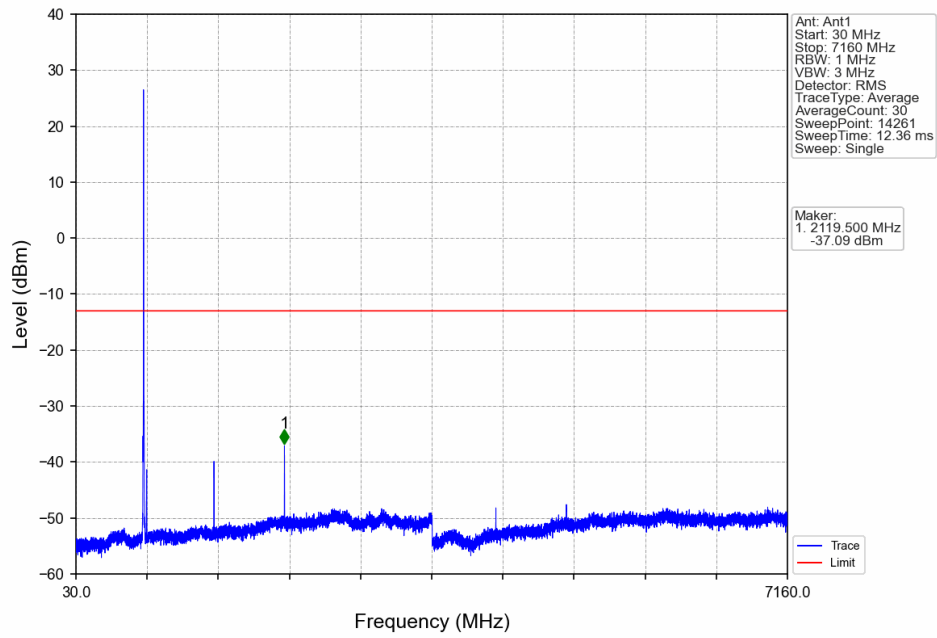


Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV

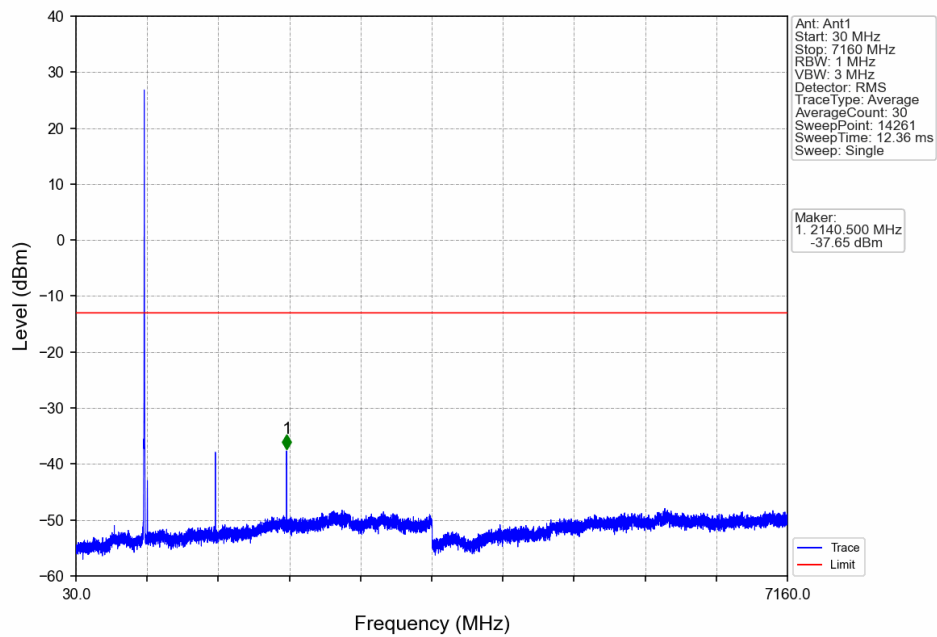


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	CHP	1	698.640	-23.11	0	Pass
698.9	702	0.03	/	2	700.332	8.39	0	Fail

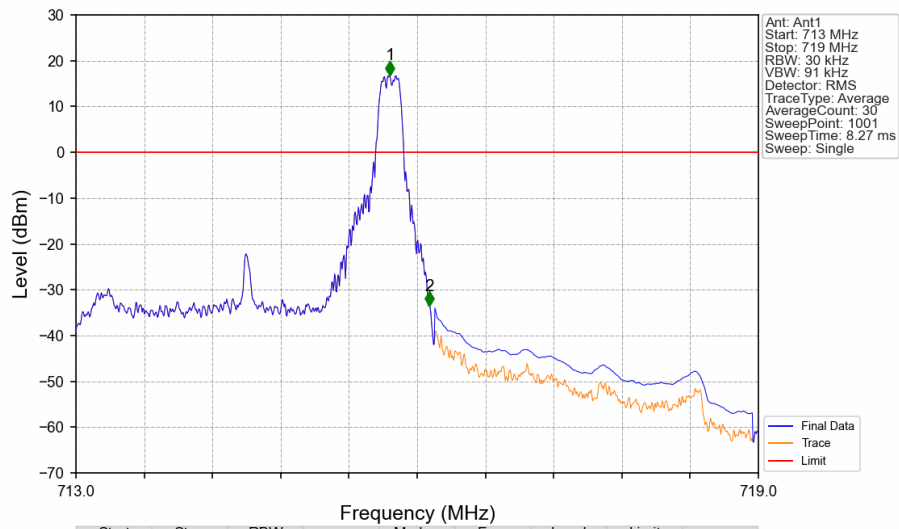
Band12_3MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



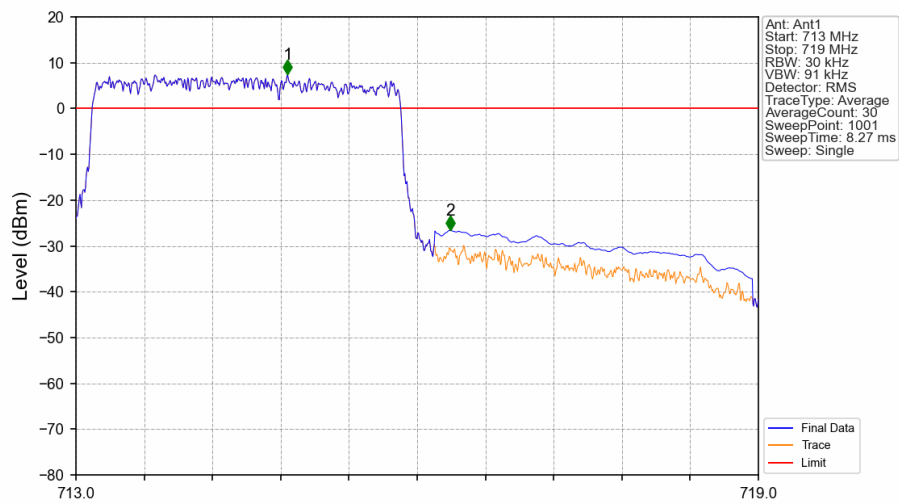
Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_0_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_1_14_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV

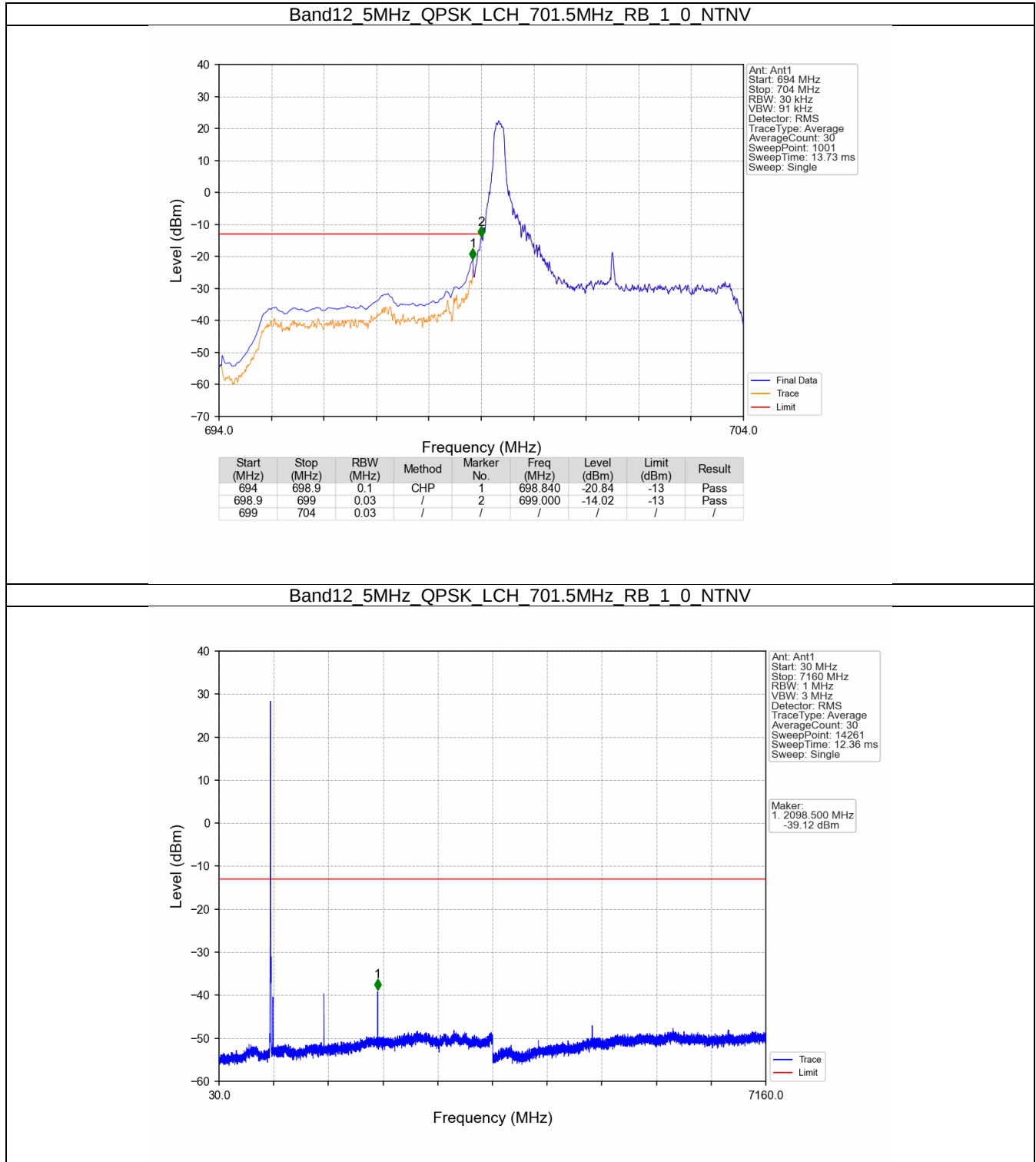


6.3 B12_5MHz

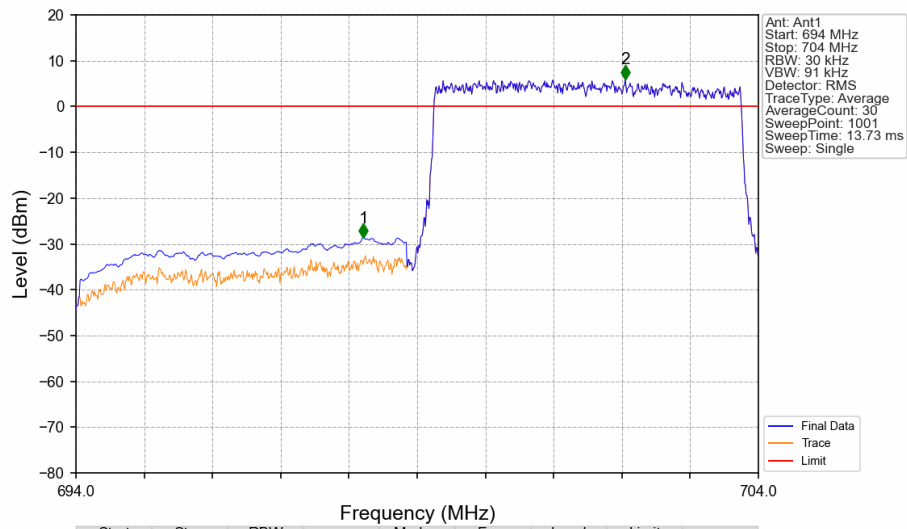
6.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	1	0	Refer To Test Graph		Init
		25	0	Refer To Test Graph		Init
	707.5	1	0	Refer To Test Graph		Init
	713.5	1	0	Refer To Test Graph		Init
			24	Refer To Test Graph		Init
		25	0	Refer To Test Graph		Init
16QAM	701.5	1	0	Refer To Test Graph		Init
		25	0	Refer To Test Graph		Init
	707.5	1	0	Refer To Test Graph		Init
	713.5	1	0	Refer To Test Graph		Init
			24	Refer To Test Graph		Init
		25	0	Refer To Test Graph		Init

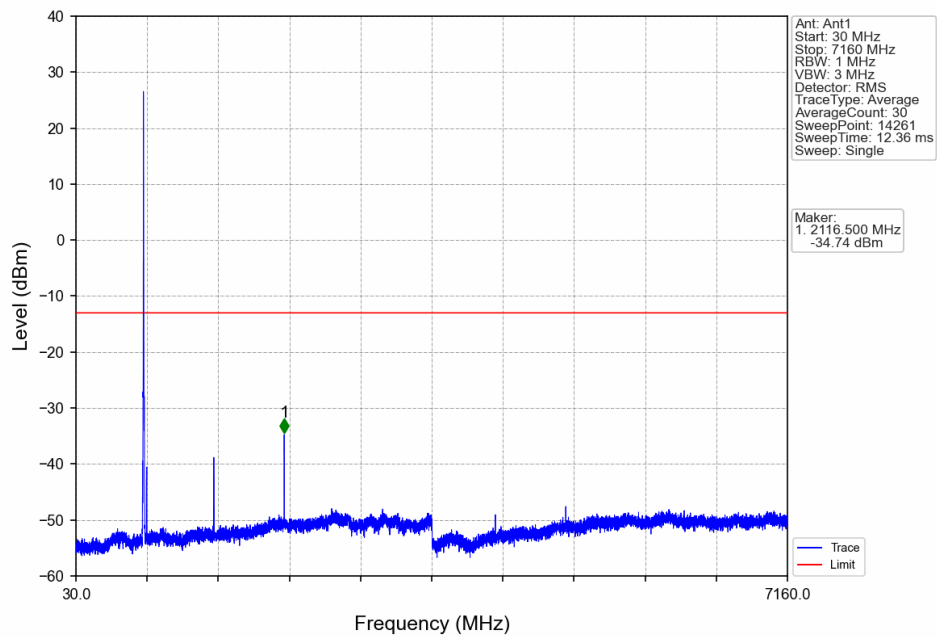
6.3.2 Test Graph



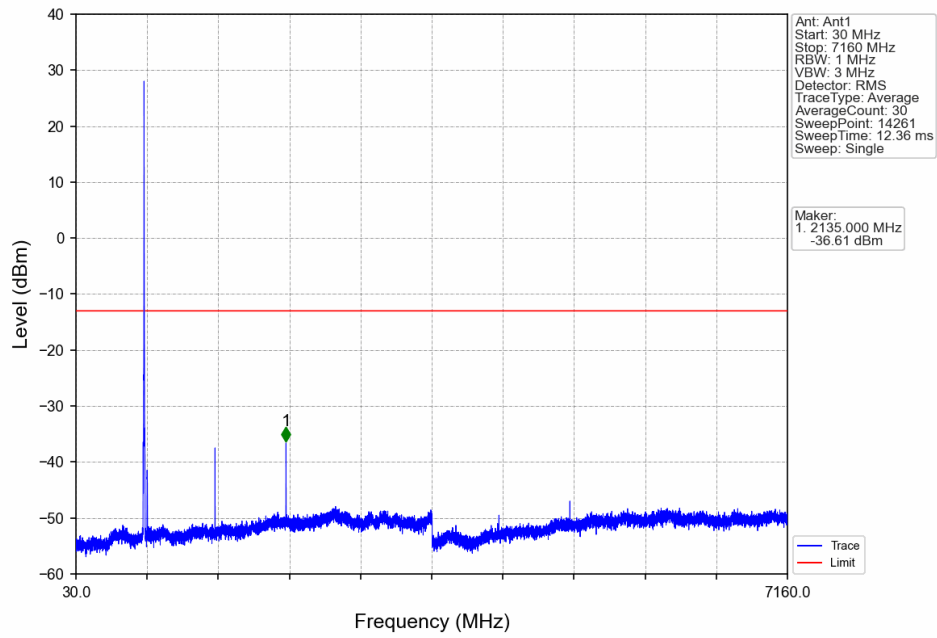
Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



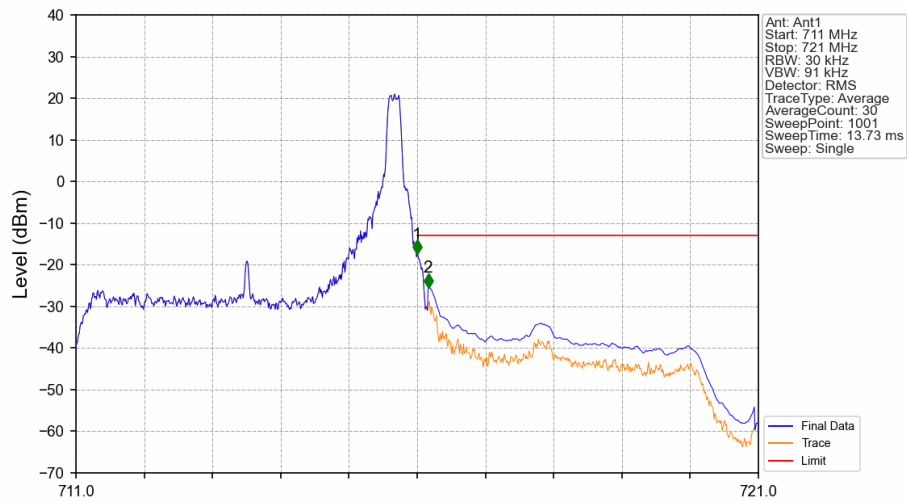
Band12_5MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_0_NTNV

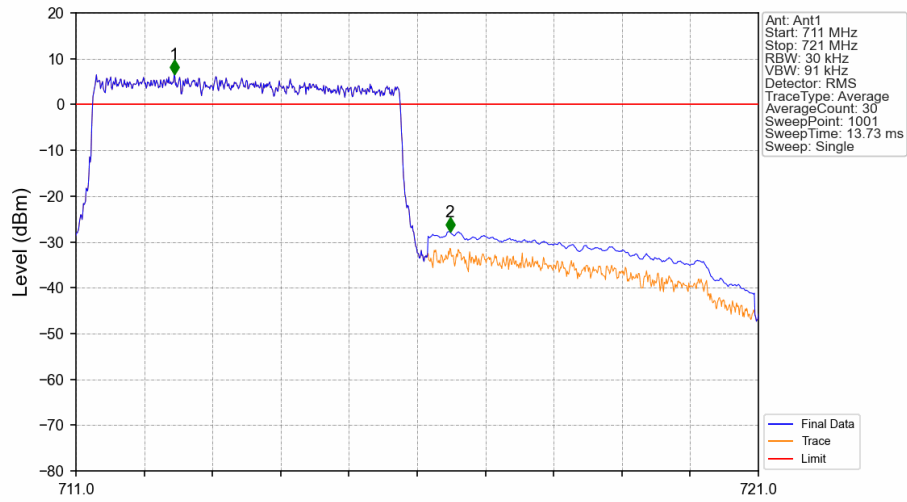


Band12_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV

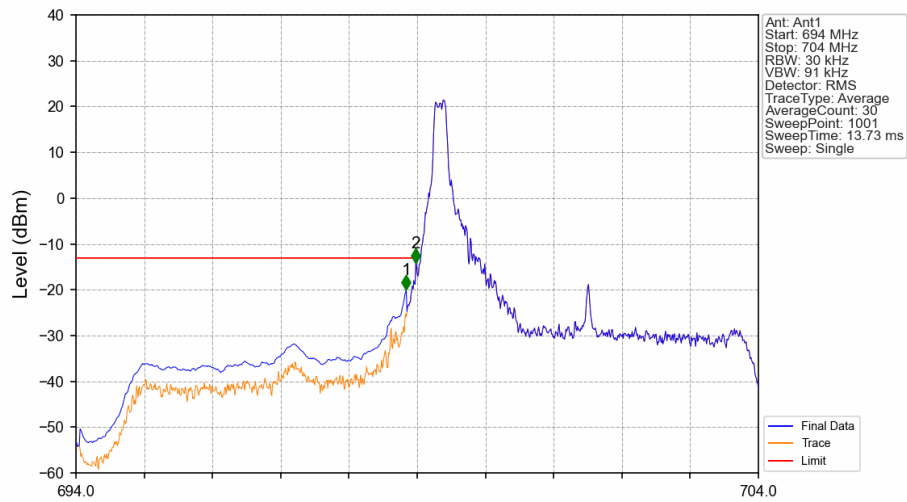


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-17.37	-13	Pass
716.1	721	0.1	CHP	2	716.160	-25.49	-13	Pass

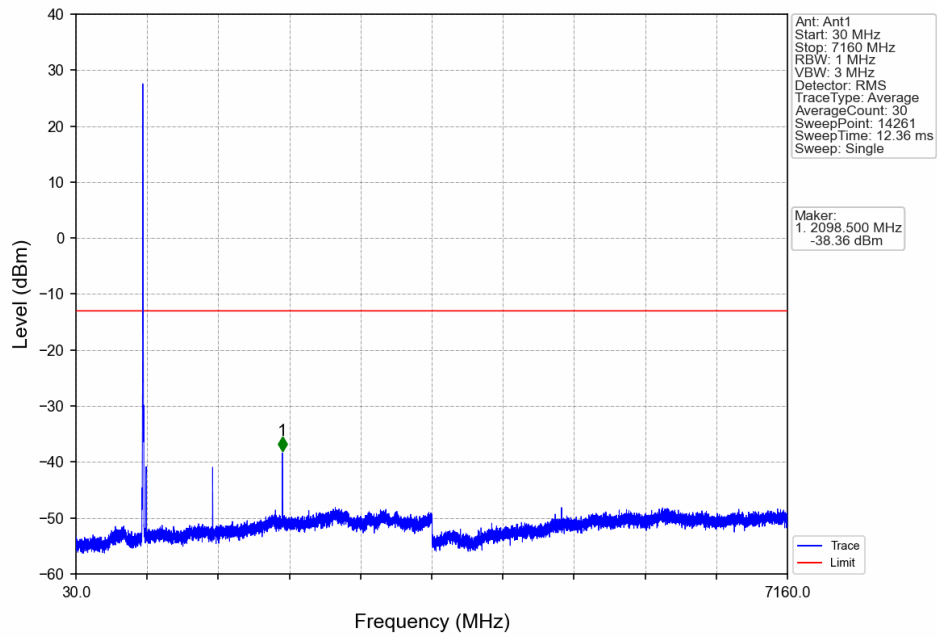
Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



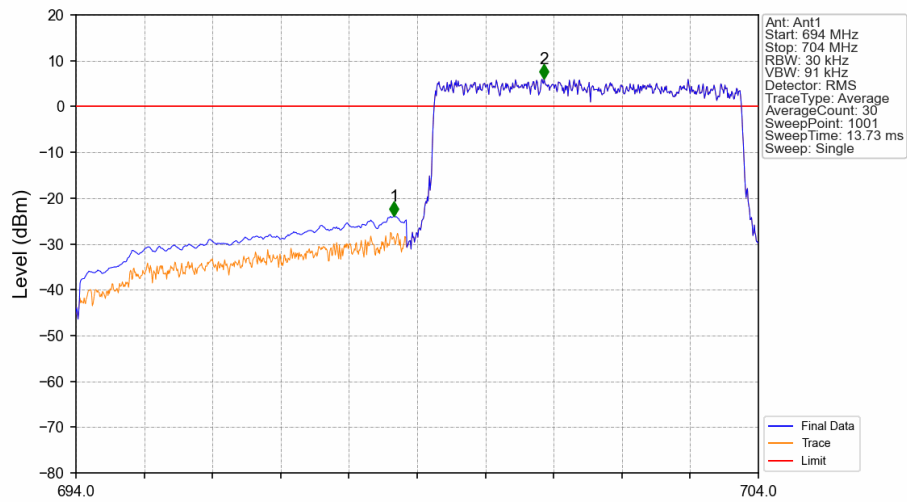
Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV



Band12_5MHz_16QAM_LCH_701.5MHz_RB_1_0_NTNV

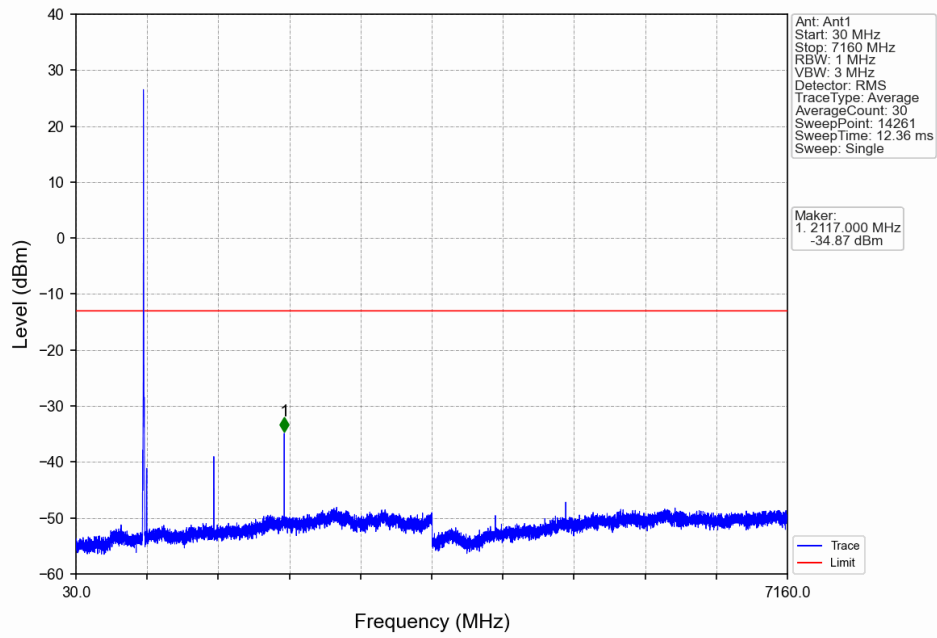


Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV

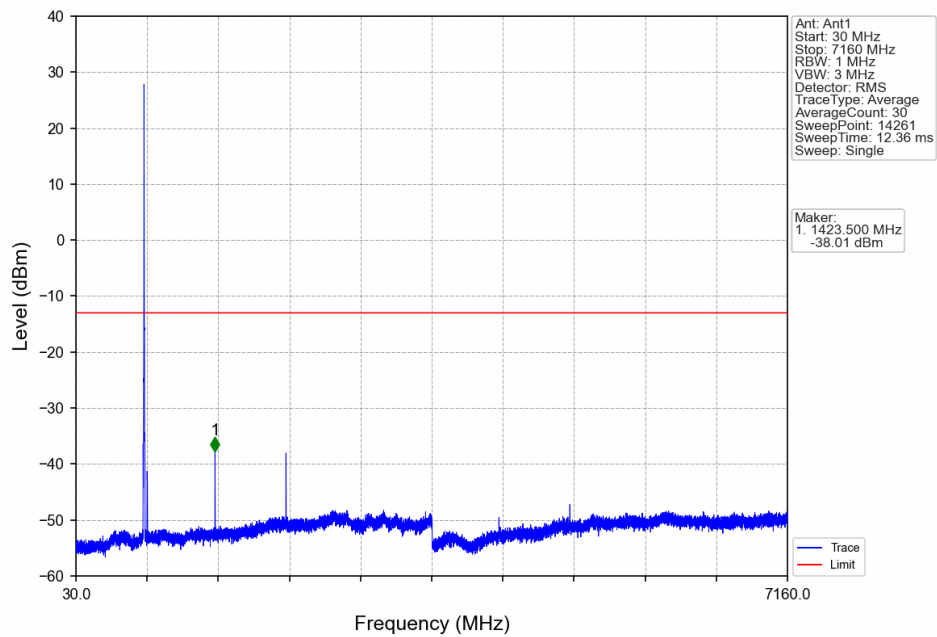


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	CHP	1	698.660	-23.99	0	Pass
698.9	704	0.03	/	2	700.860	6.07	0	Fail

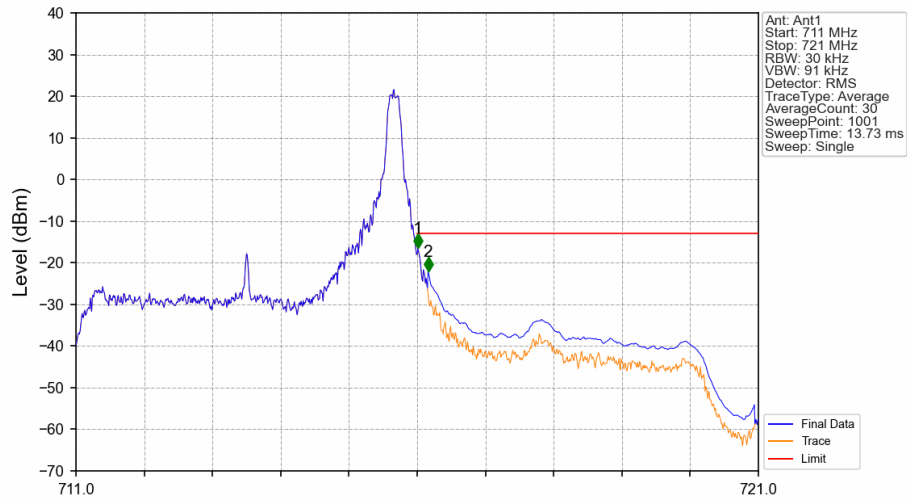
Band12_5MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_0_NTNV

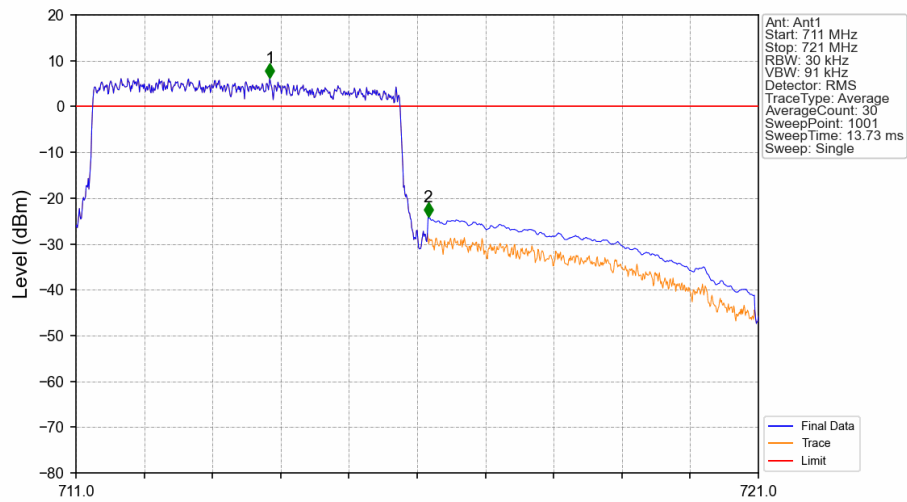


Band12_5MHz_16QAM_HCH_713.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	1	716.010	-16.45	-13	Pass
716.1	721	0.1	CHP	2	716.160	-22.02	-13	Pass

Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



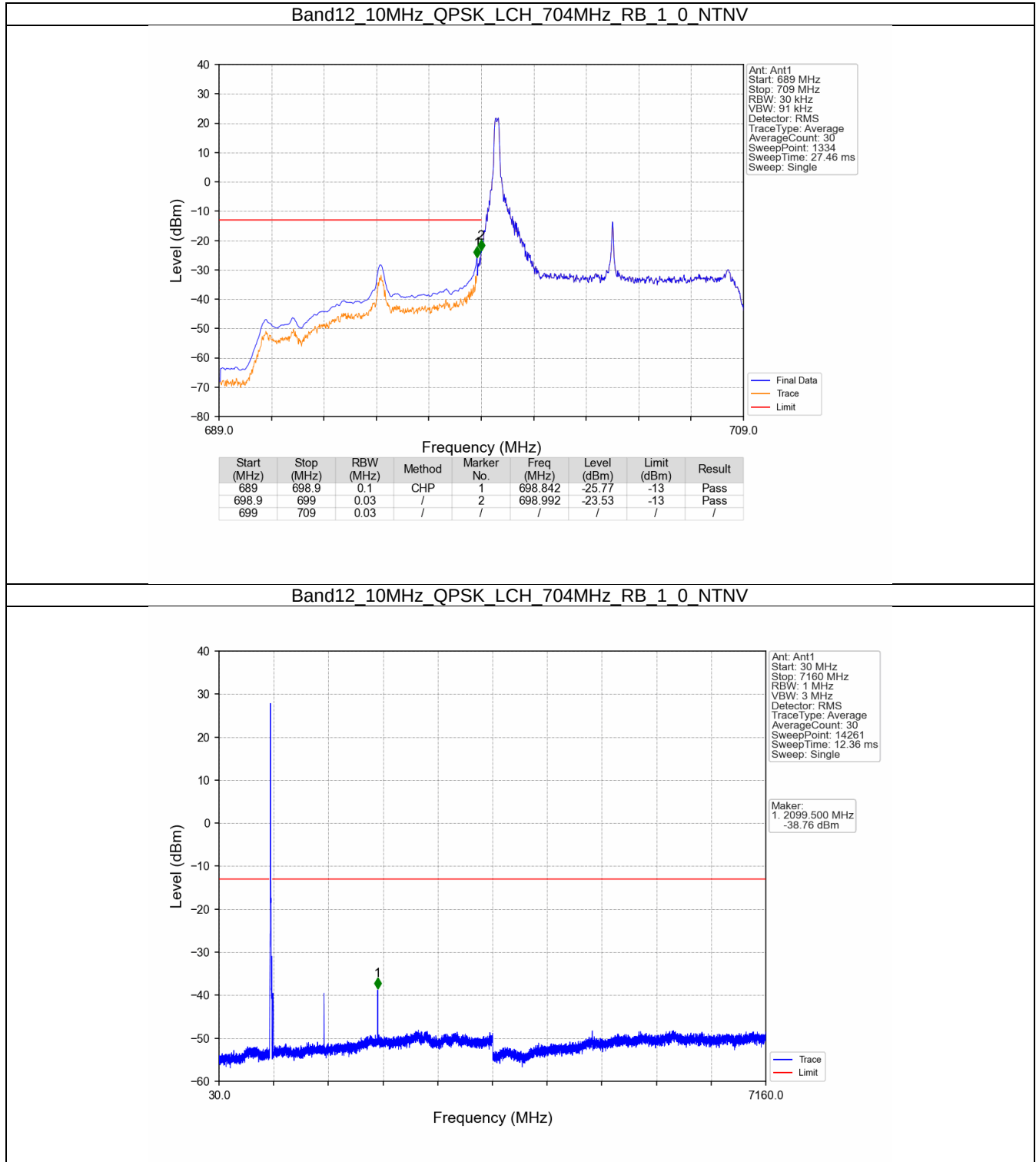
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716.1	0.03	/	1	713.840	6.21	0	Fail
716.1	721	0.1	CHP	2	716.160	-24.16	0	Pass

6.4 B12_10MHz

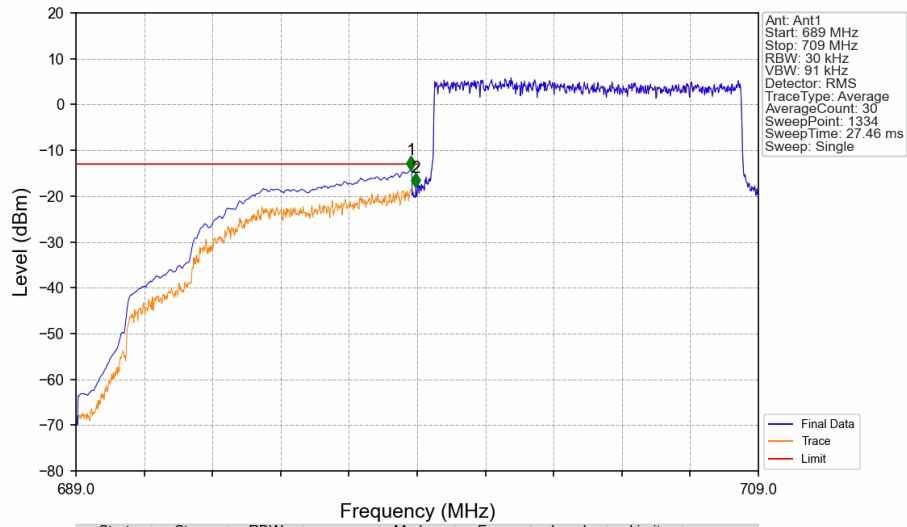
6.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	704	1	0	Refer To Test Graph		Init
		50	0	Refer To Test Graph		Init
	707.5	1	0	Refer To Test Graph		Init
	711	1	0	Refer To Test Graph		Init
			49	Refer To Test Graph		Init
		50	0	Refer To Test Graph		Init
16QAM	704	1	0	Refer To Test Graph		Init
		50	0	Refer To Test Graph		Init
	707.5	1	0	Refer To Test Graph		Init
	711	1	0	Refer To Test Graph		Init
			49	Refer To Test Graph		Init
		50	0	Refer To Test Graph		Init

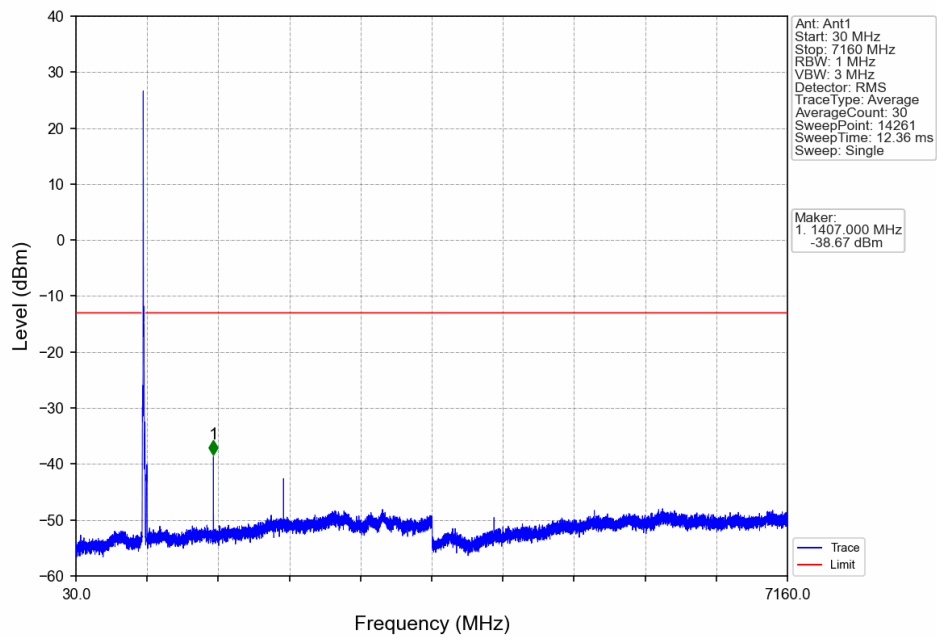
6.4.2 Test Graph



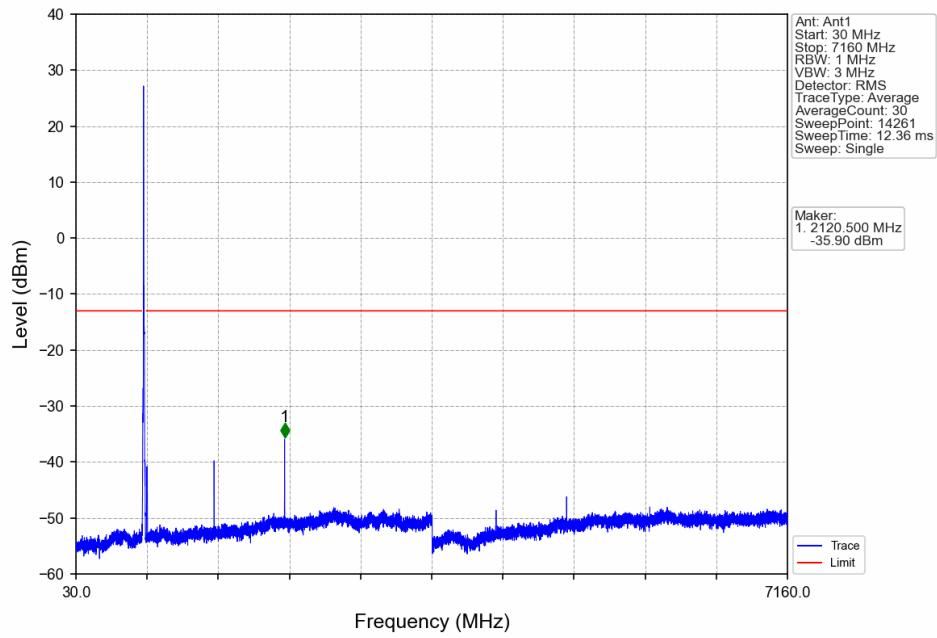
Band12_10MHz_QPSK_LCH_704MHz_RB_50_0_NTNV



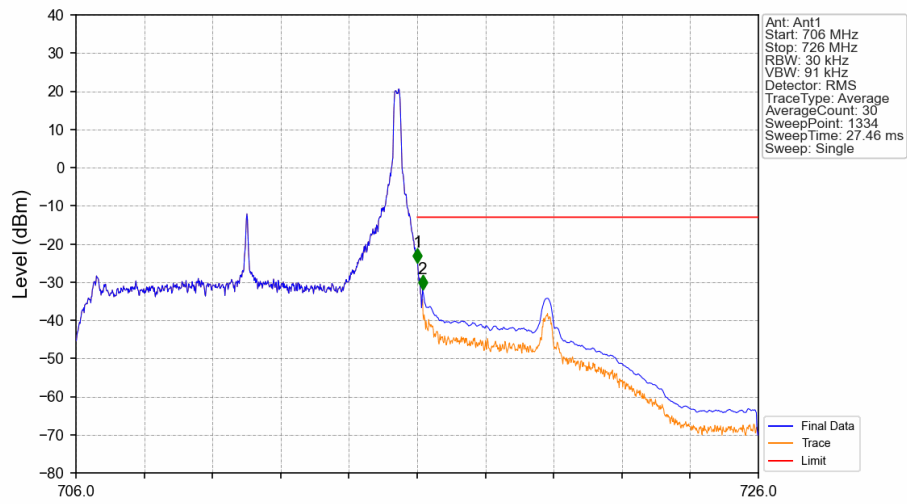
Band12_10MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



Band12_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV

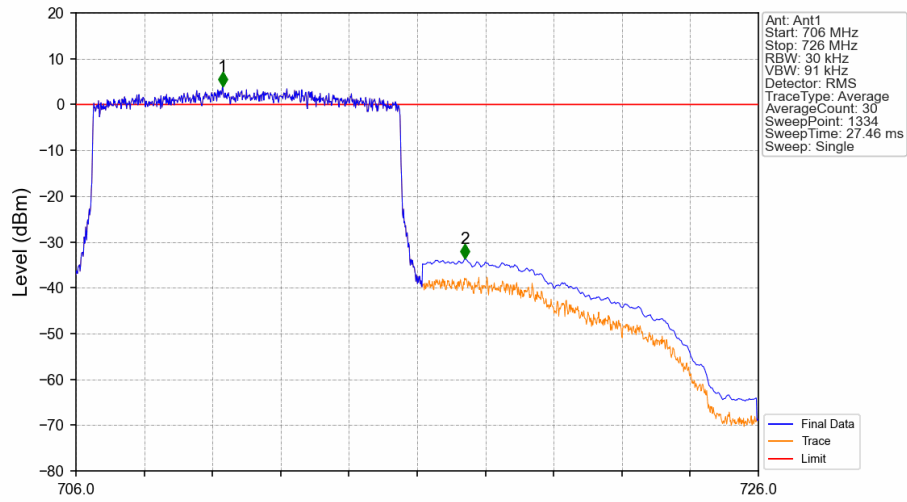


Band12_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



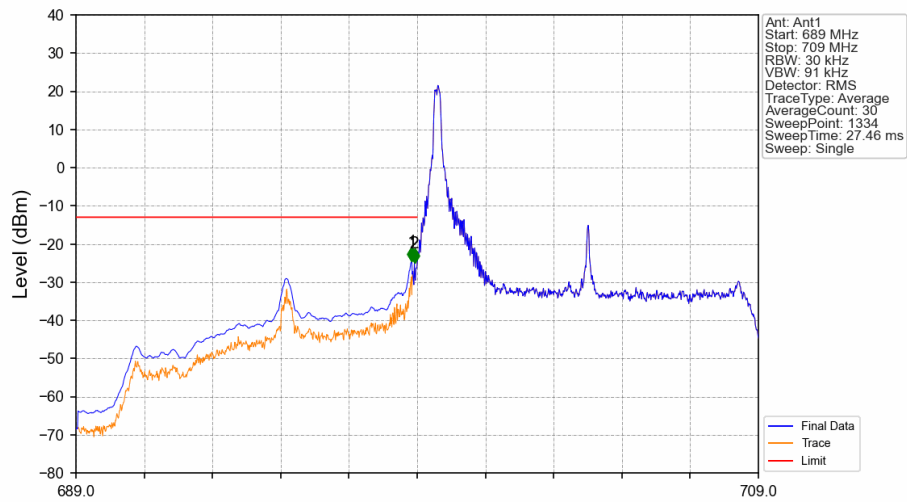
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	1	716.008	-24.87	-13	Pass
716	716.1	0.03	/	2	716.158	-31.86	-13	Pass
716.1	726	0.1	CHP					

Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



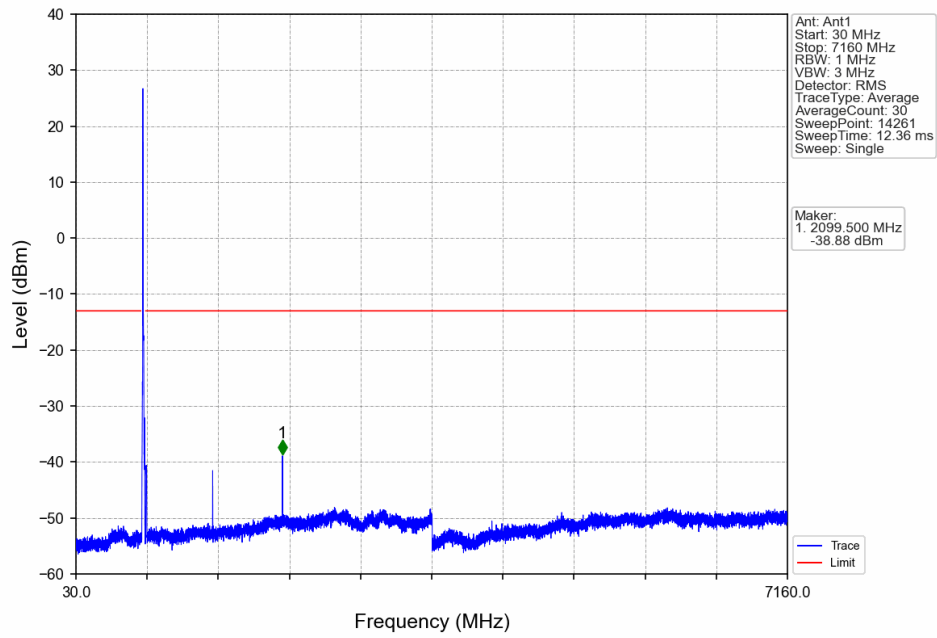
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716.1	0.03	/	1	710.291	3.91	0	Fail
716.1	726	0.1	CHP	2	717.403	-33.66	0	Pass

Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV

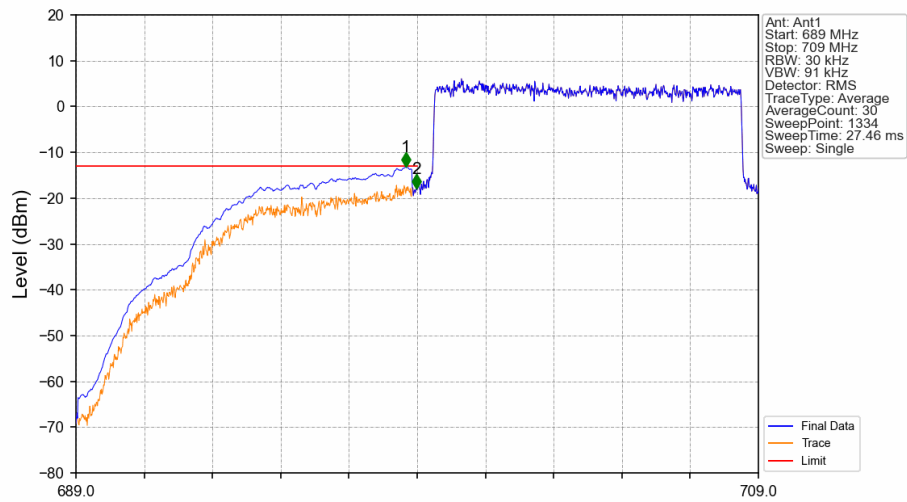


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.842	-24.62	-13	Pass
698.9	699	0.03	/	2	698.917	-25.02	-13	Pass
699	709	0.03	/	/	/	/	/	/

Band12_10MHz_16QAM_LCH_704MHz_RB_1_0_NTNV

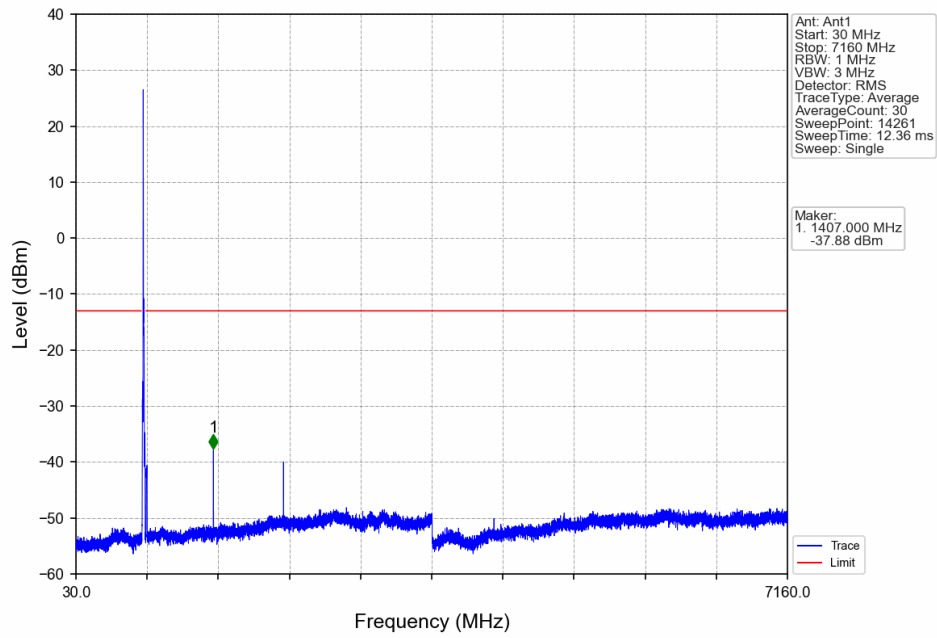


Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV

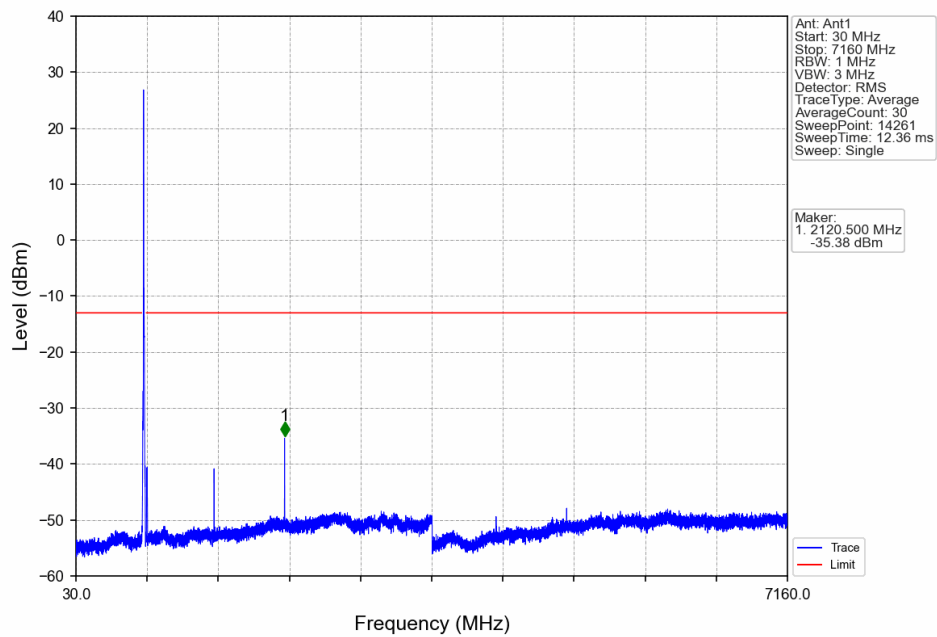


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	CHP	1	698.662	-13.20	-13	Pass
698.9	699	0.03	/	2	698.977	-17.91	-13	Pass
699	709	0.03	/	/	/	/	/	/

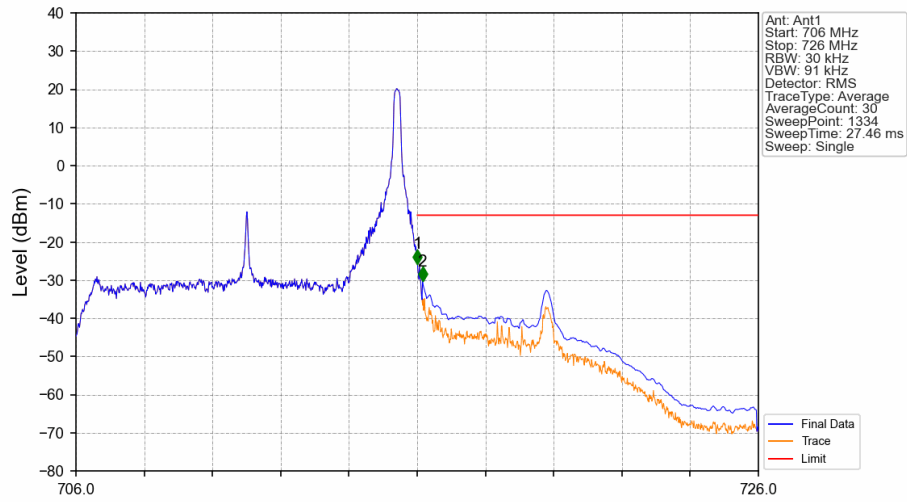
Band12_10MHz_16QAM_MCH_707.5MHz_RB_1_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_1_0_NTNV

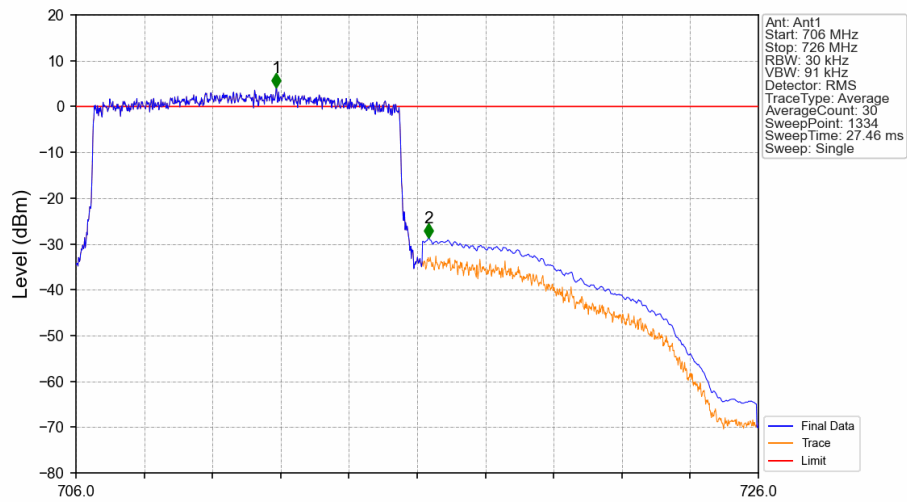


Band12_10MHz_16QAM_HCH_711MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	1	716.008	-25.73	-13	Pass
716.1	726	0.1	CHP	2	716.158	-30.31	-13	Pass

Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716.1	0.03	/	1	711.866	4.08	0	Fail
716.1	726	0.1	CHP	2	716.338	-28.71	0	Pass

