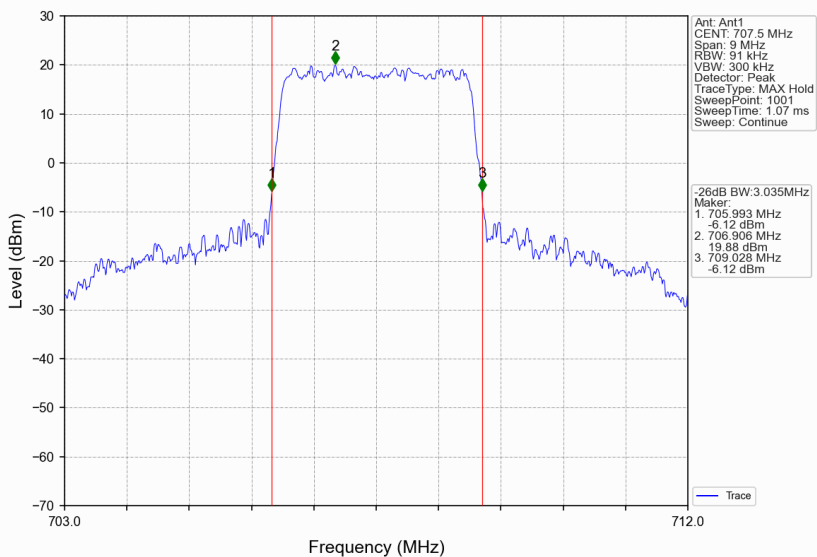


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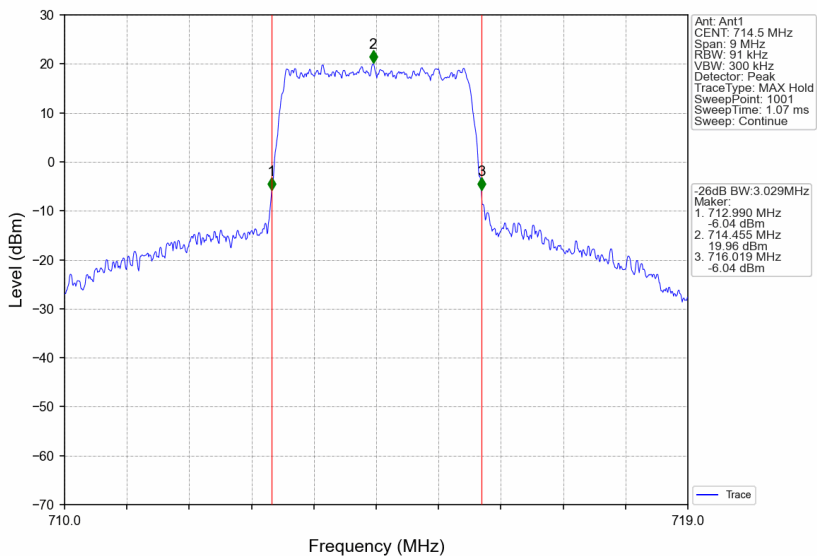
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Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



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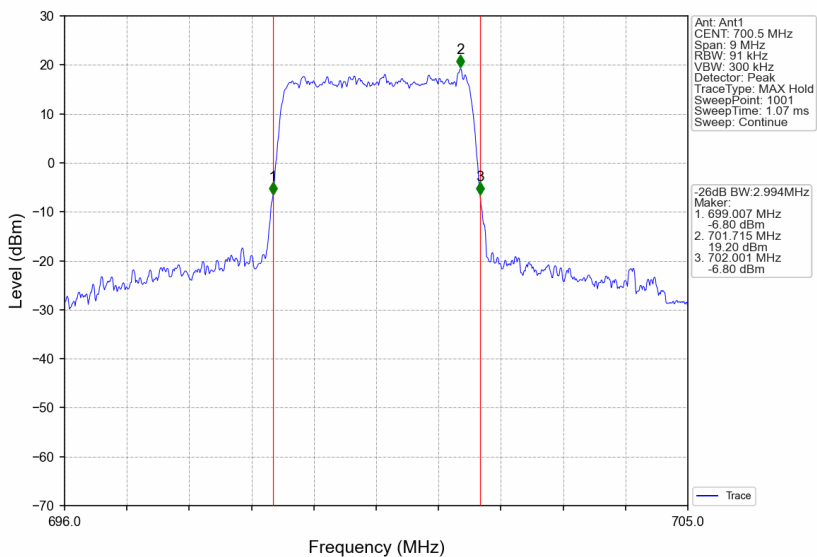
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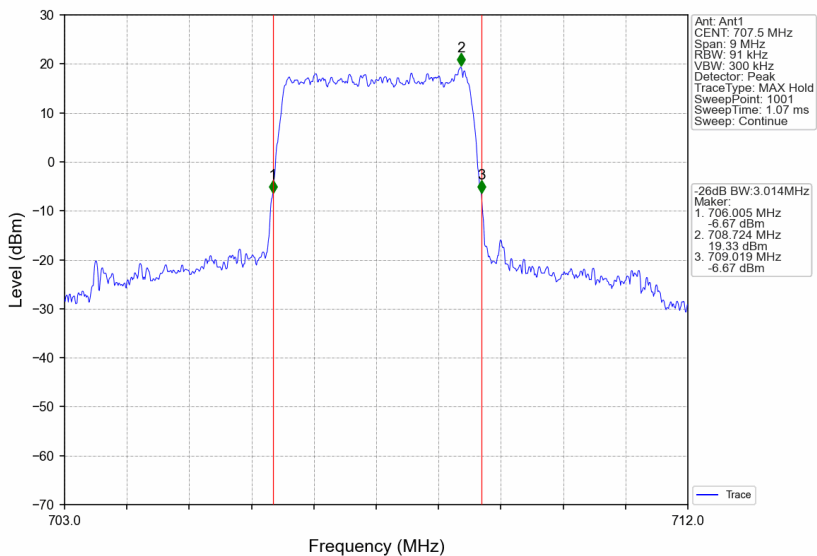
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Band12_3MHz_64QAM_LCH_700.5MHz_RB_15_0_NTNV



Band12_3MHz_64QAM_MCH_707.5MHz_RB_15_0_NTNV



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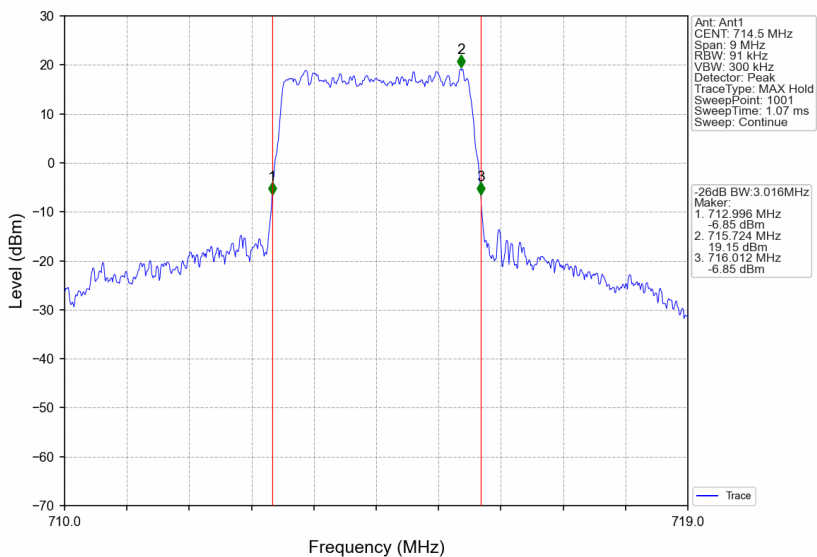
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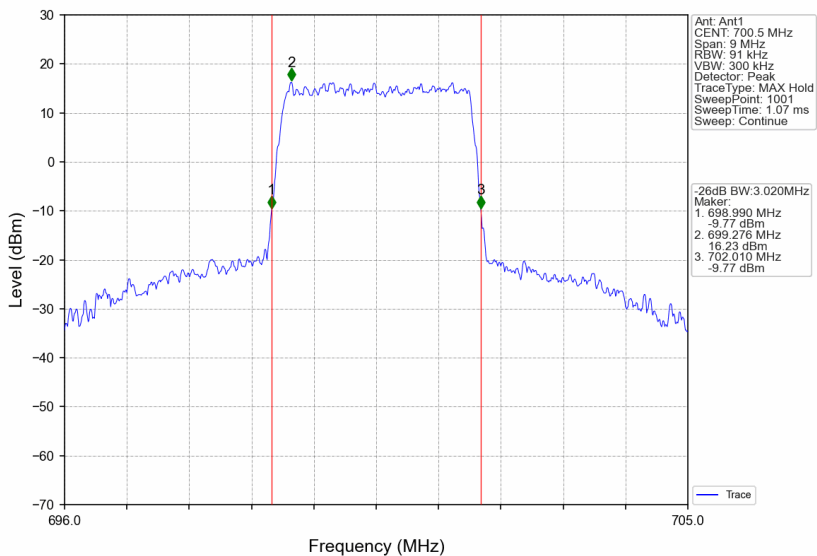
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Band12_3MHz_64QAM_HCH_714.5MHz_RB_15_0_NTNV



Band12_3MHz_256QAM_LCH_700.5MHz_RB_15_0_NTNV



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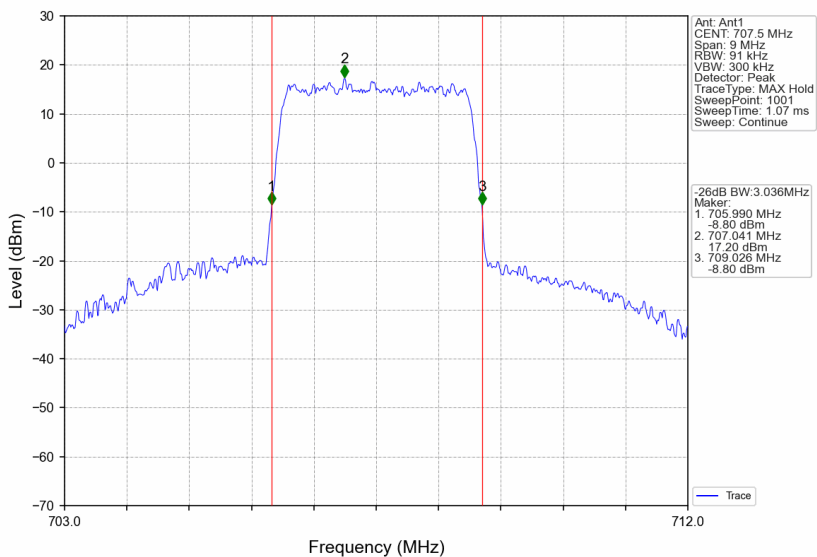
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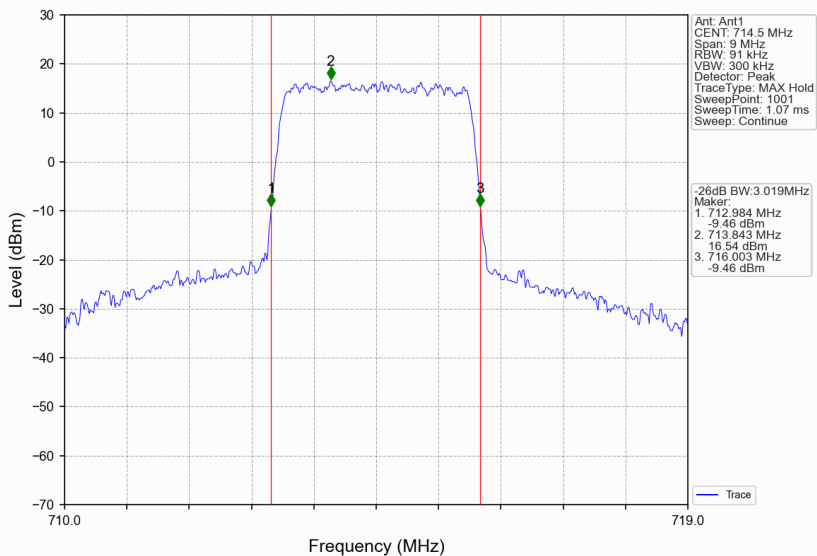
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Band12_3MHz_256QAM_MCH_707.5MHz_RB_15_0_NTNV



Band12_3MHz_256QAM_HCH_714.5MHz_RB_15_0_NTNV



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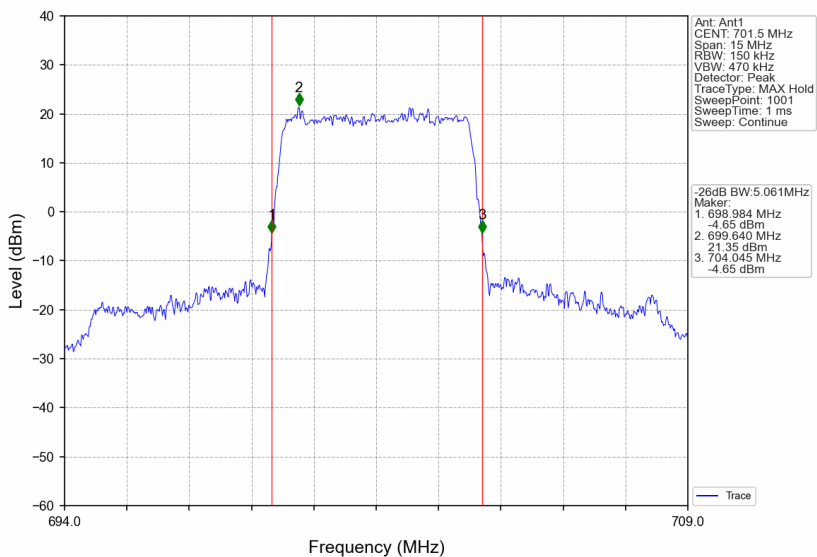
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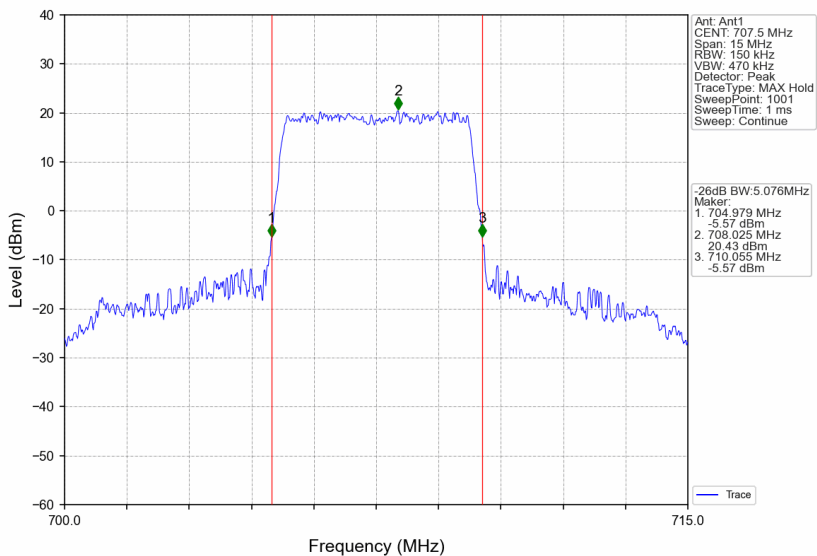
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Band12_5MHz_QPSK_LCH_701.5MHz_RB_25_0_NTNV



Band12_5MHz_QPSK_MCH_707.5MHz_RB_25_0_NTNV



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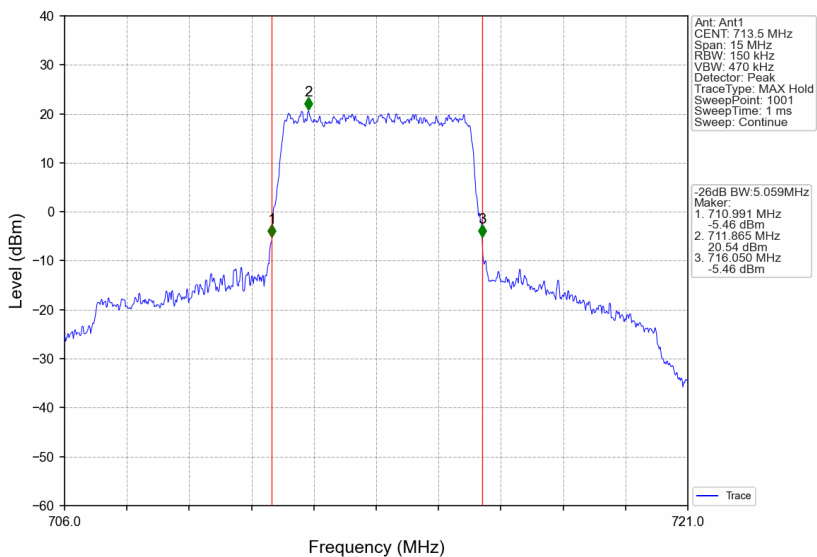
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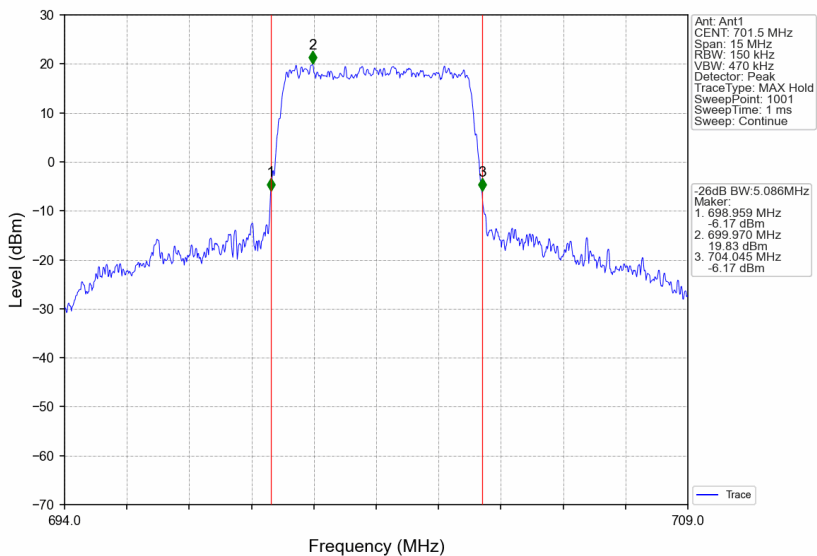
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Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



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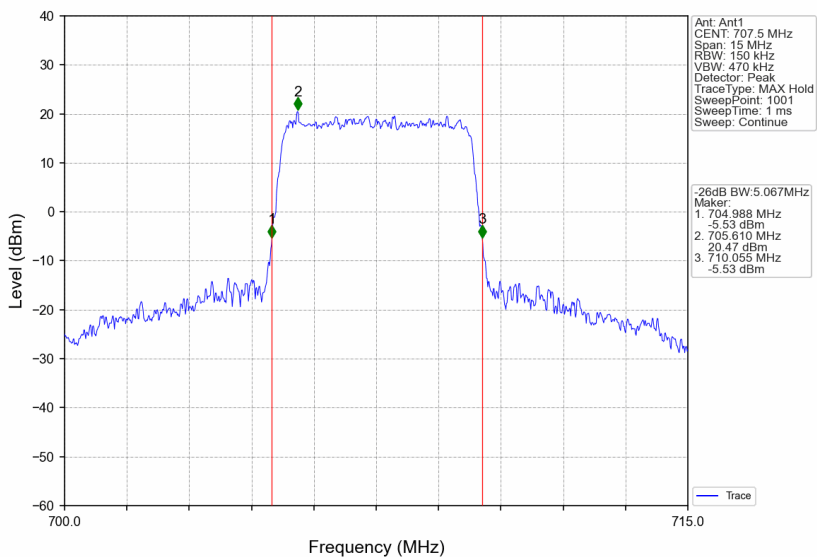
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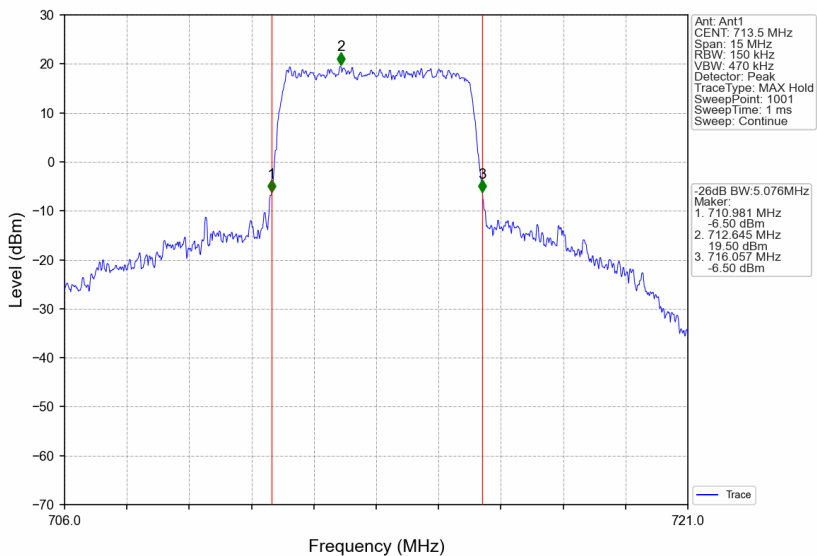
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Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



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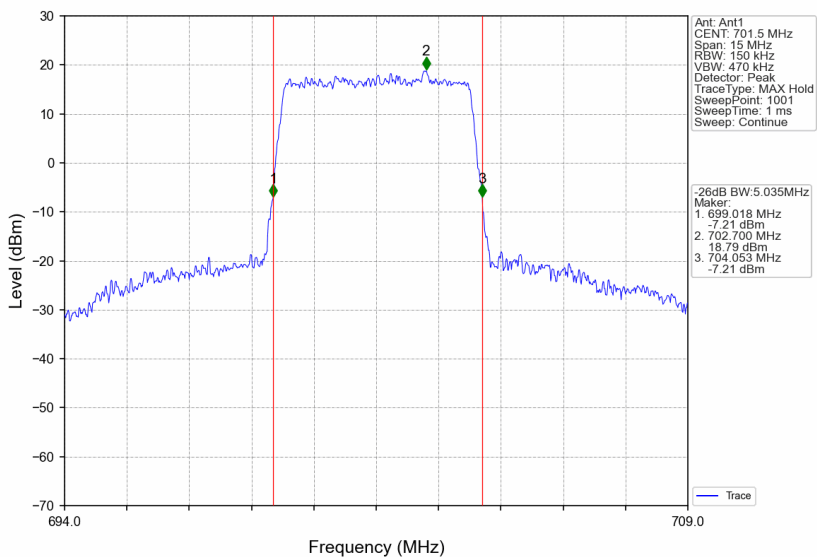
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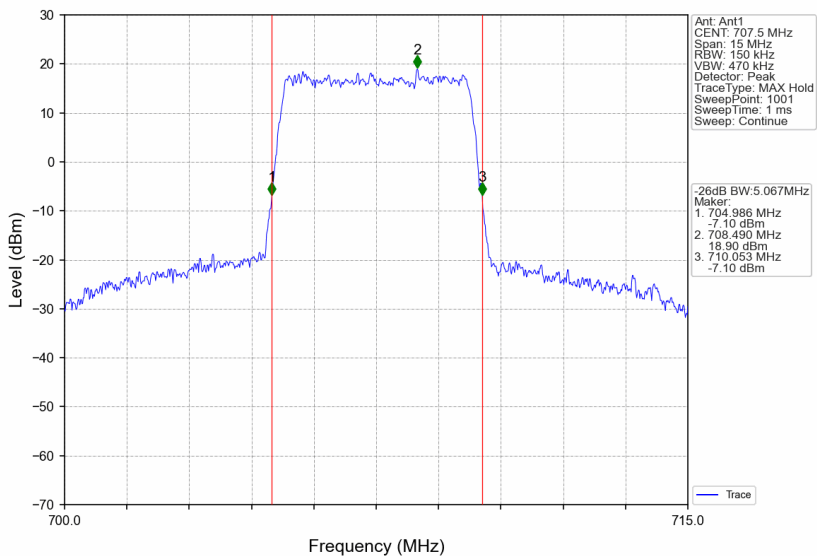
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Band12_5MHz_64QAM_MCH_707.5MHz_RB_25_0_NTNV



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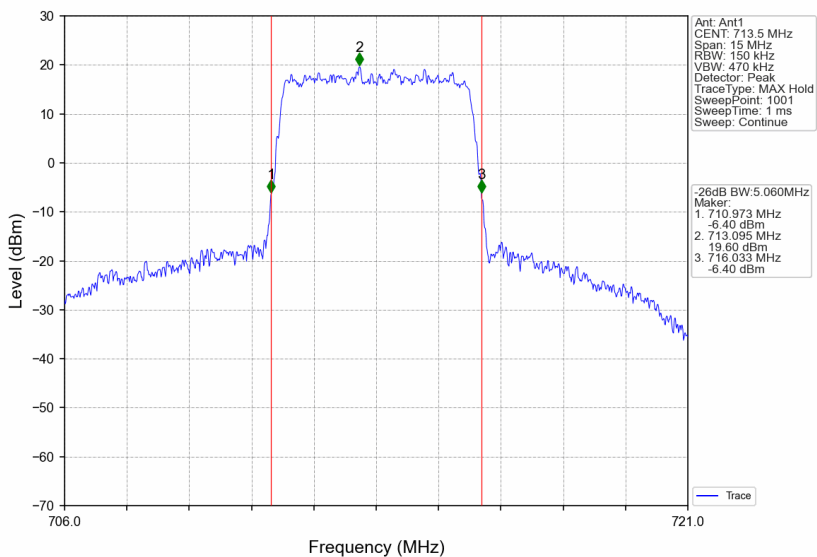
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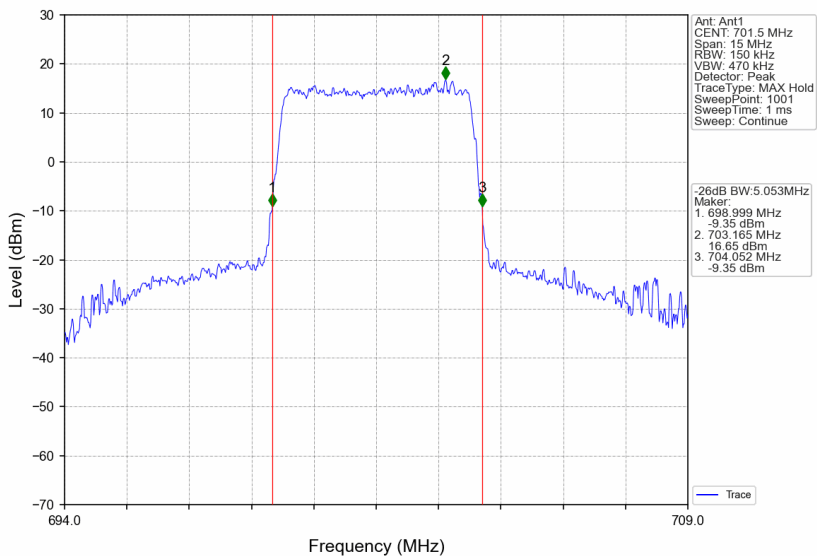
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Band12_5MHz_64QAM_HCH_713.5MHz_RB_25_0_NTNV



Band12_5MHz_256QAM_LCH_701.5MHz_RB_25_0_NTNV



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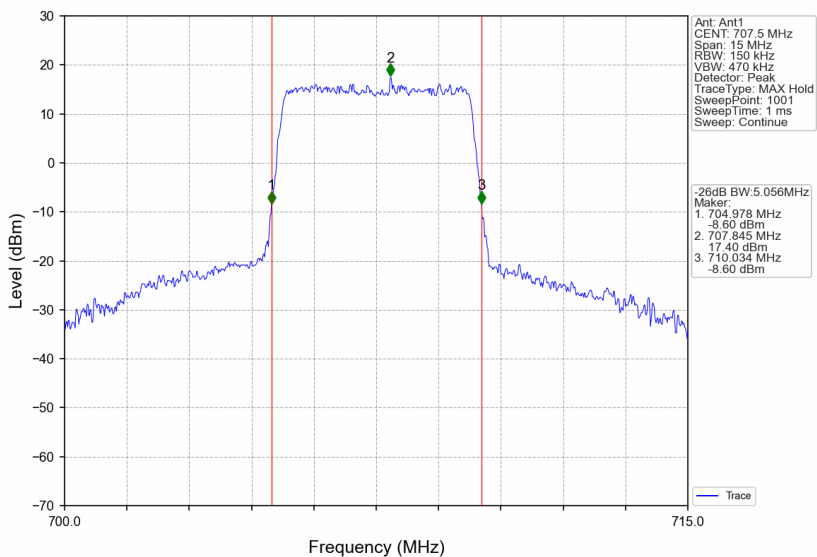
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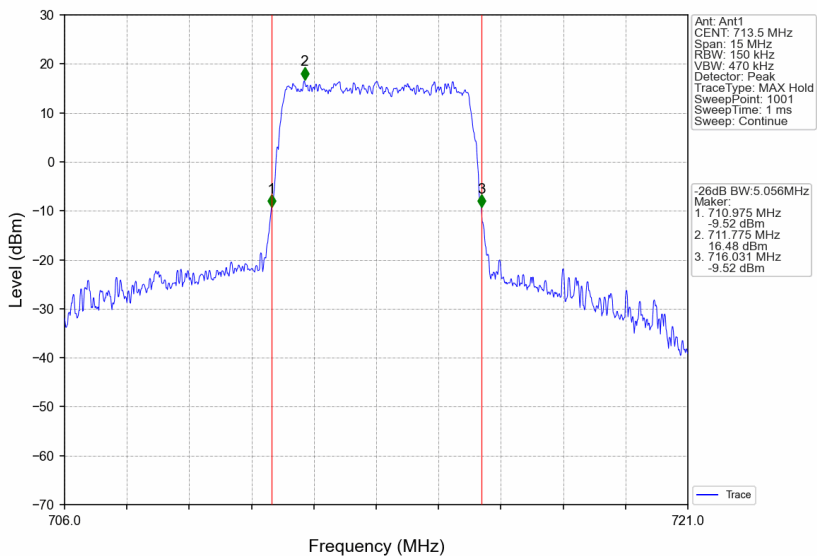
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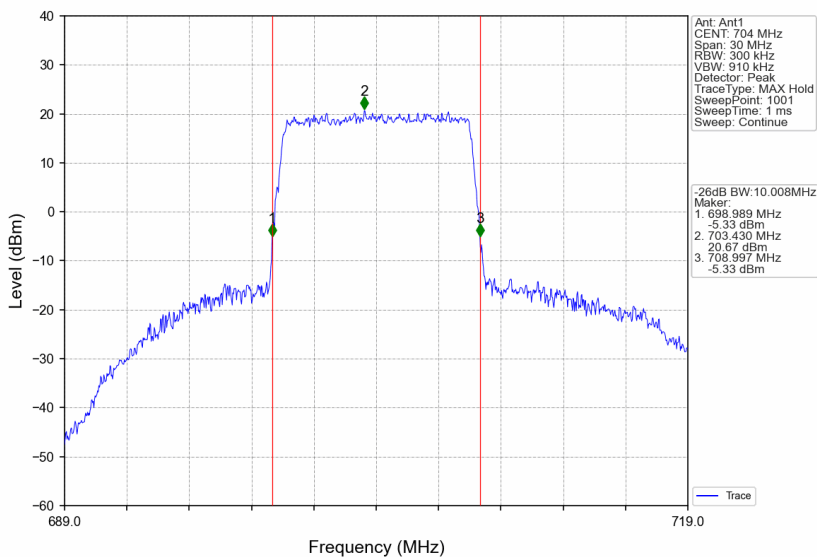
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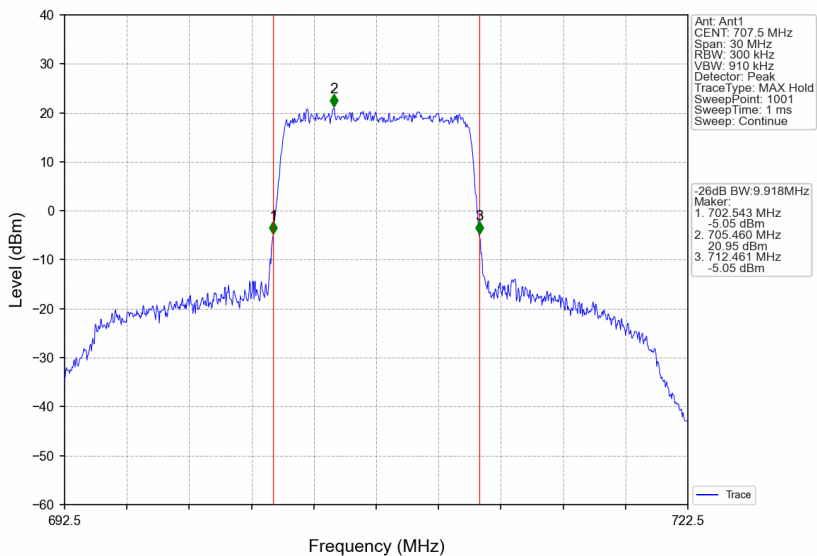
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Band12 10MHz QPSK LCH 704MHz RB 50 0 NTNV



Band12 10MHz QPSK MCH 707.5MHz RB 50 0 NTNV



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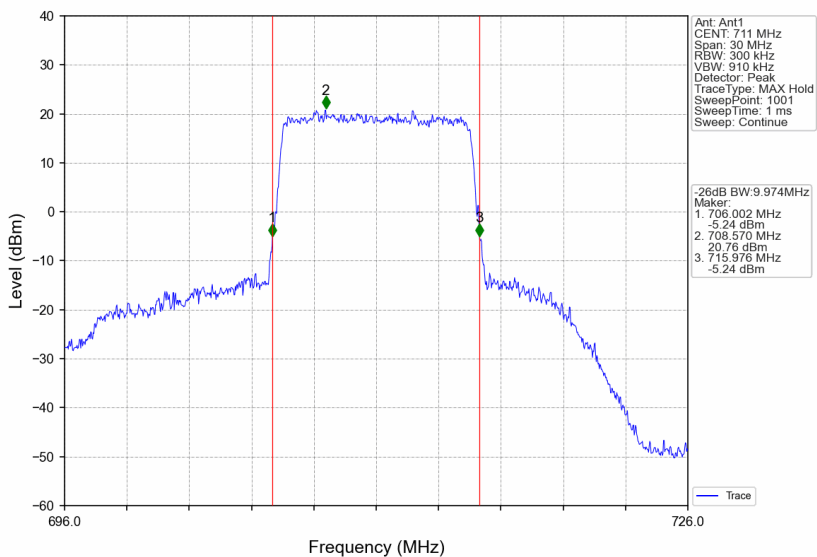
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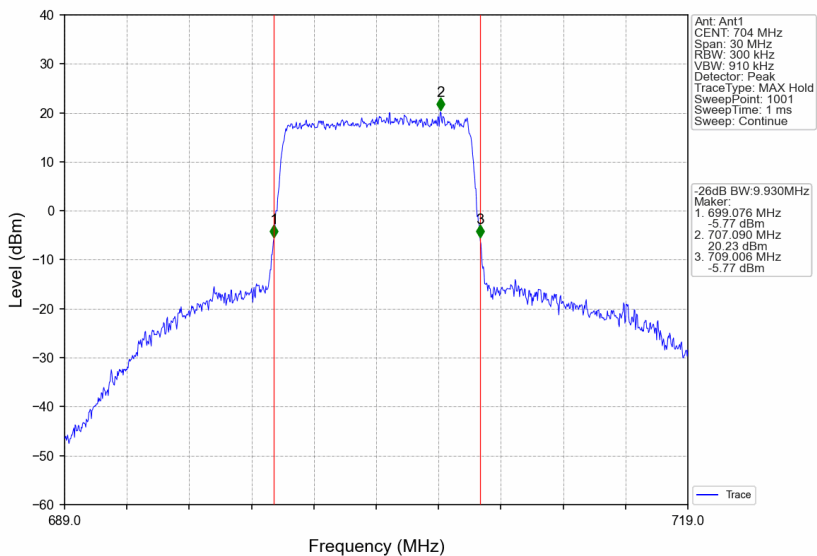
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Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



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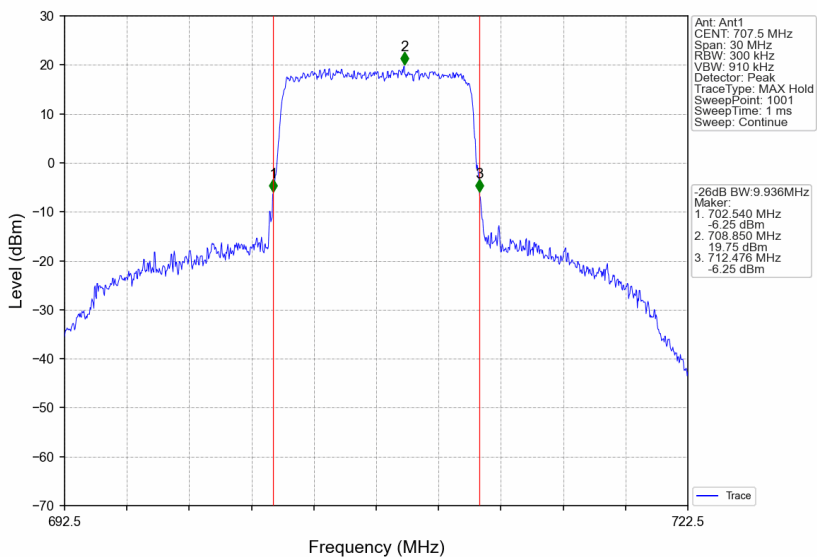
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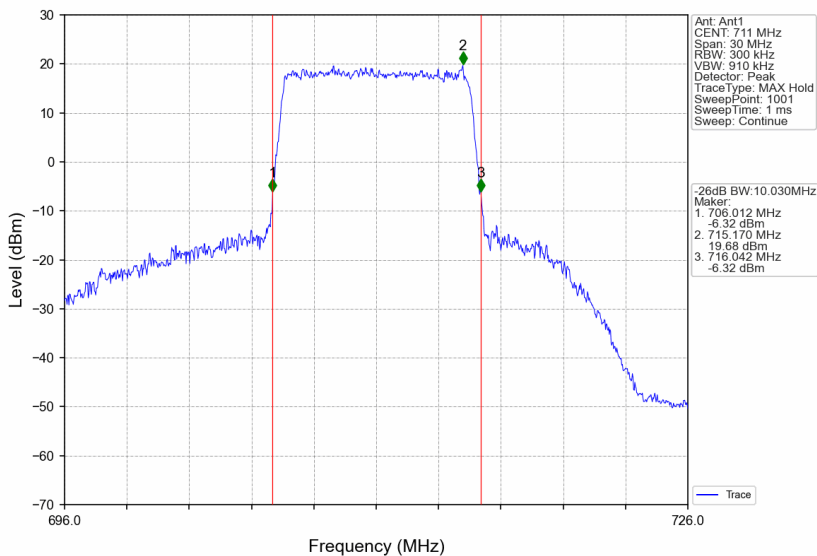
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Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



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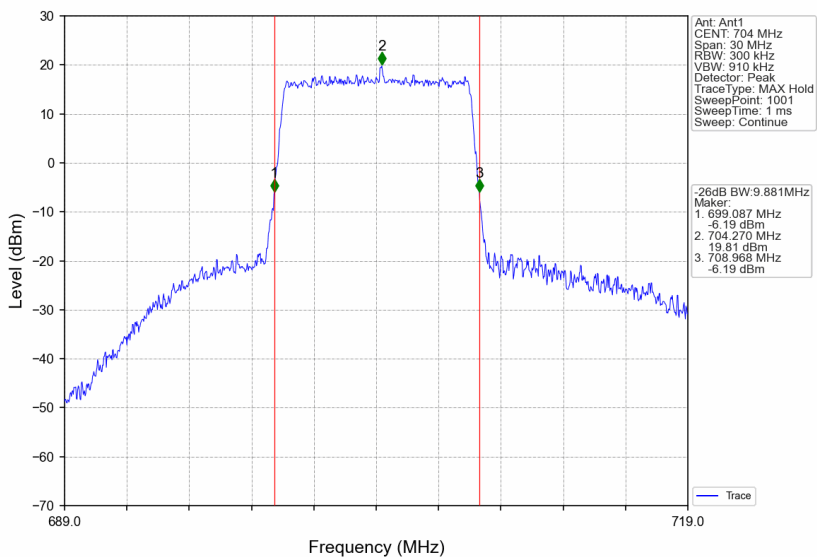
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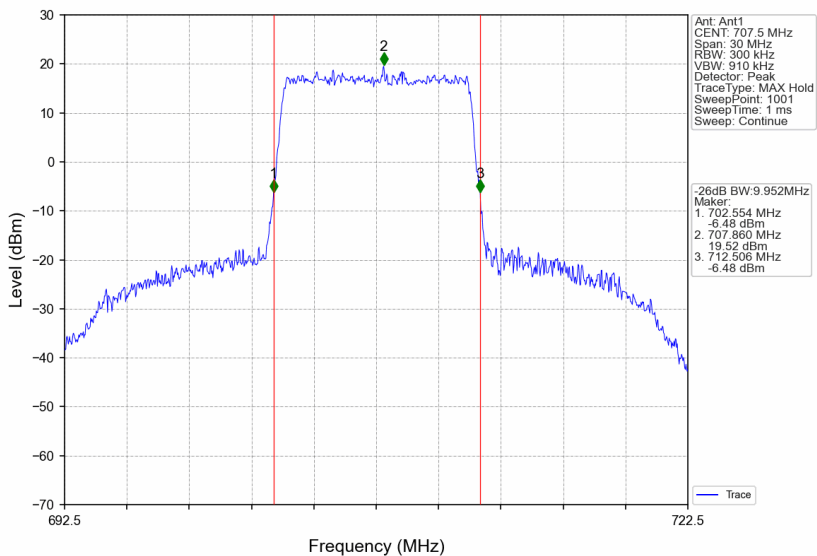
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Band12_10MHz_64QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_64QAM_MCH_707.5MHz_RB_50_0_NTNV



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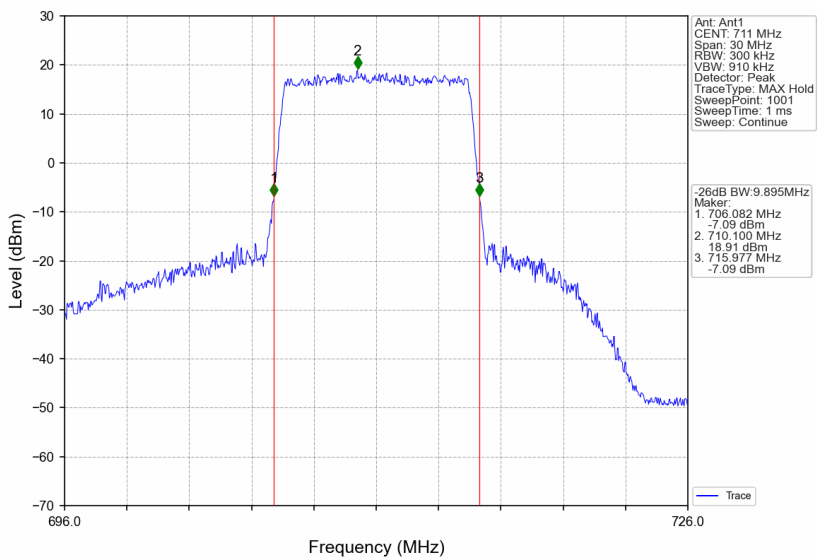
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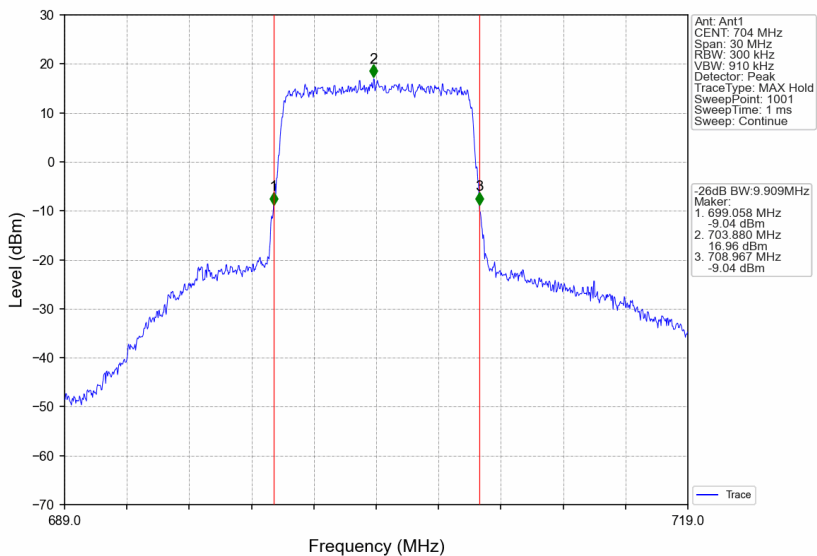
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Band12_10MHz_64QAM_HCH_711MHz_RB_50_0_NTNV



Band12_10MHz_256QAM_LCH_704MHz_RB_50_0_NTNV



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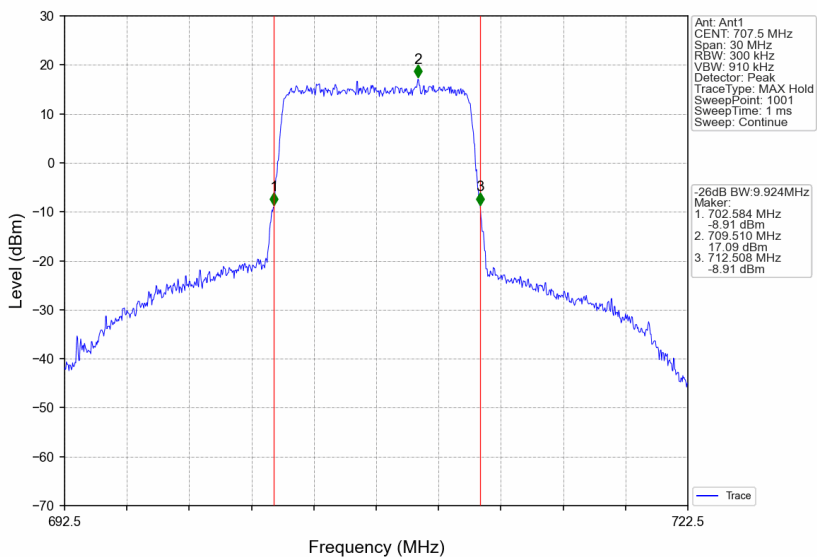
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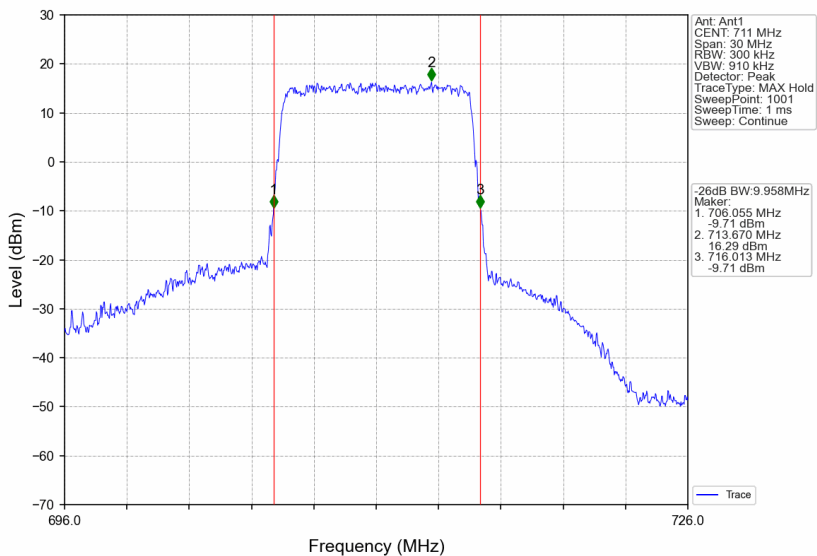
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Band12_10MHz_256QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_256QAM_HCH_711MHz_RB_50_0_NTNV



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4. Peak-Average Ratio

4.1 B12_1.4MHz

4.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	699.7	6	0	4.76	<=13	Pass
	707.5	6	0	4.82	<=13	Pass
	715.3	6	0	4.01	<=13	Pass
16QAM	699.7	6	0	5.64	<=13	Pass
	707.5	6	0	5.66	<=13	Pass
	715.3	6	0	4.87	<=13	Pass
64QAM	699.7	6	0	6.41	<=13	Pass
	707.5	6	0	6.20	<=13	Pass
	715.3	6	0	5.74	<=13	Pass
256QAM	699.7	6	0	6.98	<=13	Pass
	707.5	6	0	6.83	<=13	Pass
	715.3	6	0	6.69	<=13	Pass



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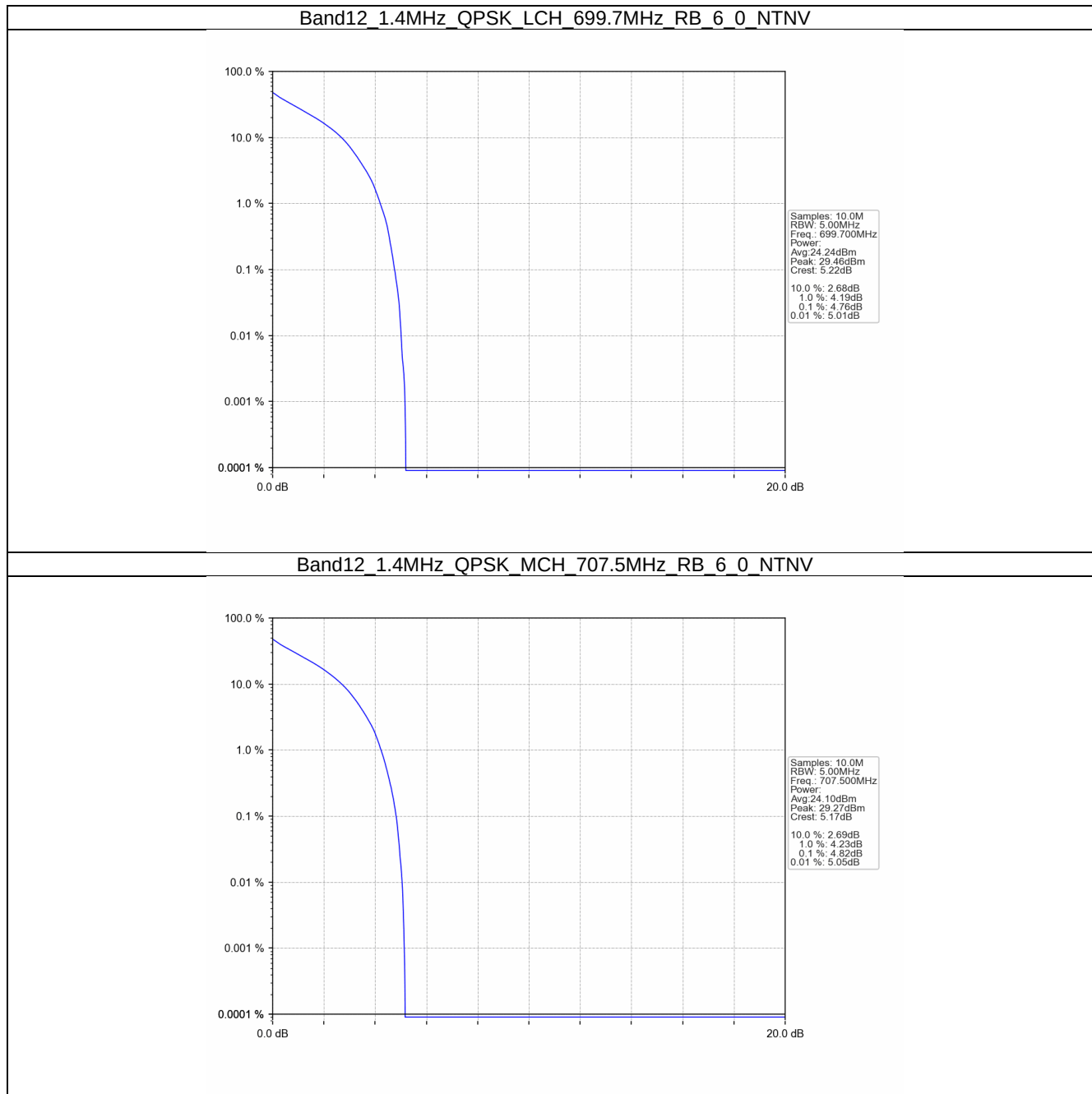
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4.1.2 Test Graph



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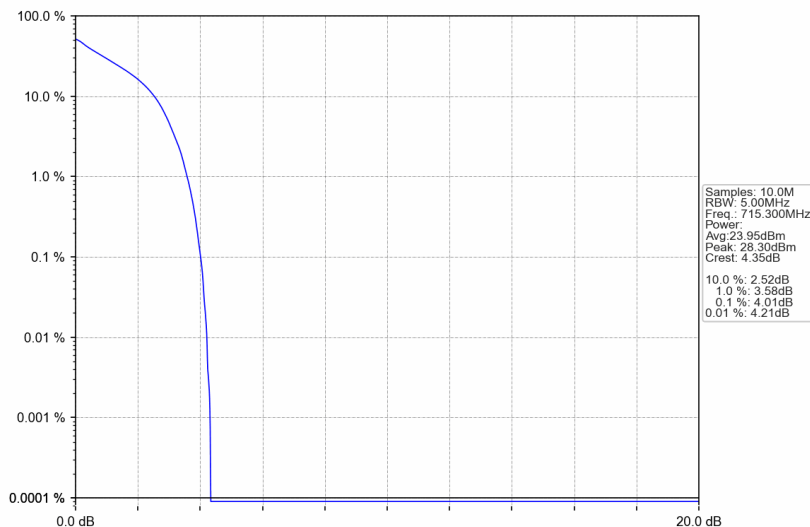
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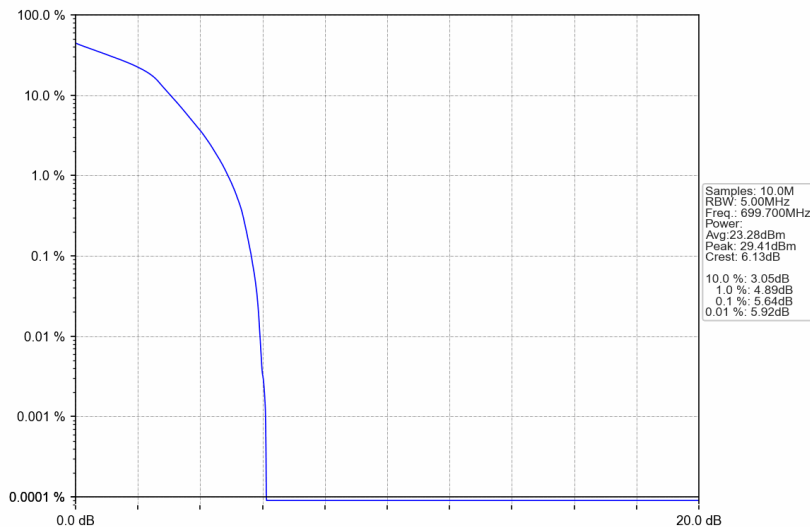
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Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_6_0_NTNV



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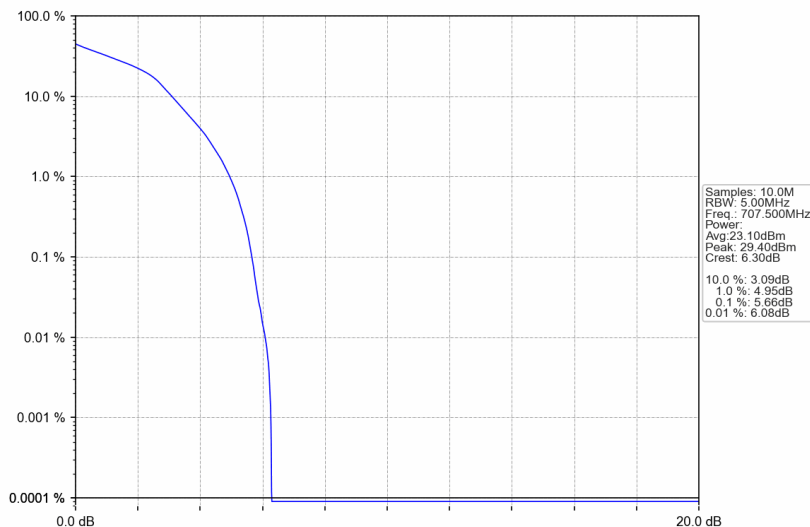
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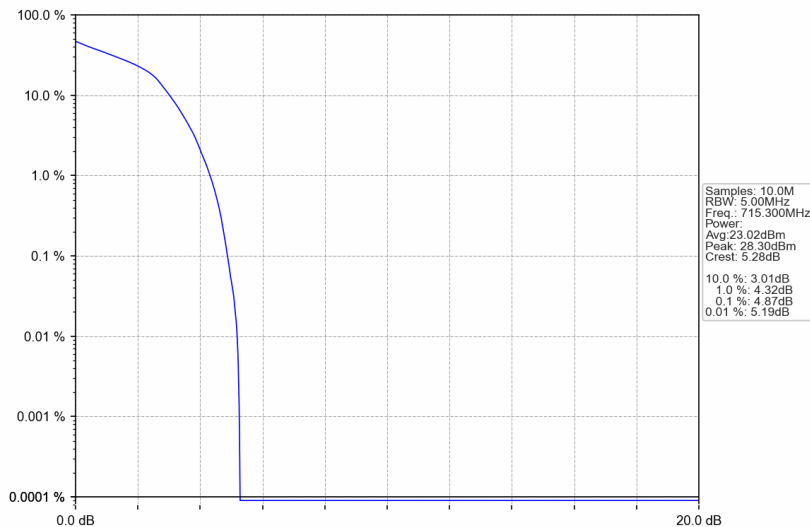
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Band12 1.4MHz 16QAM MCH 707.5MHz RB 6 0 NTNV



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



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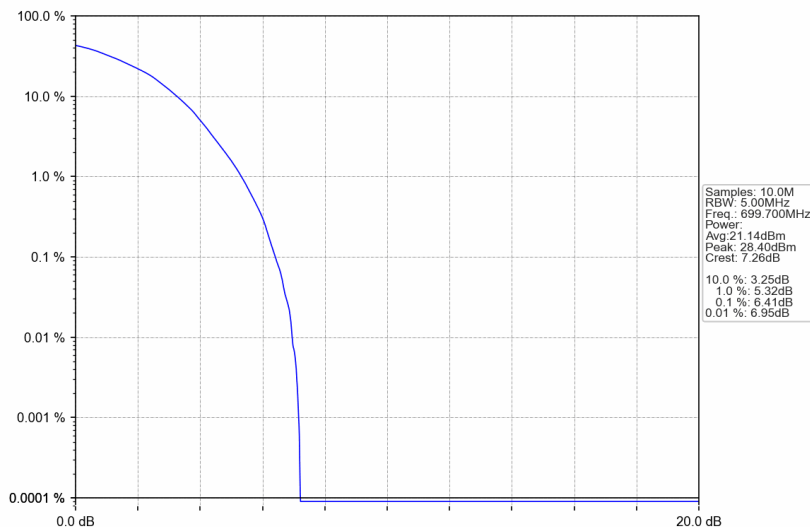
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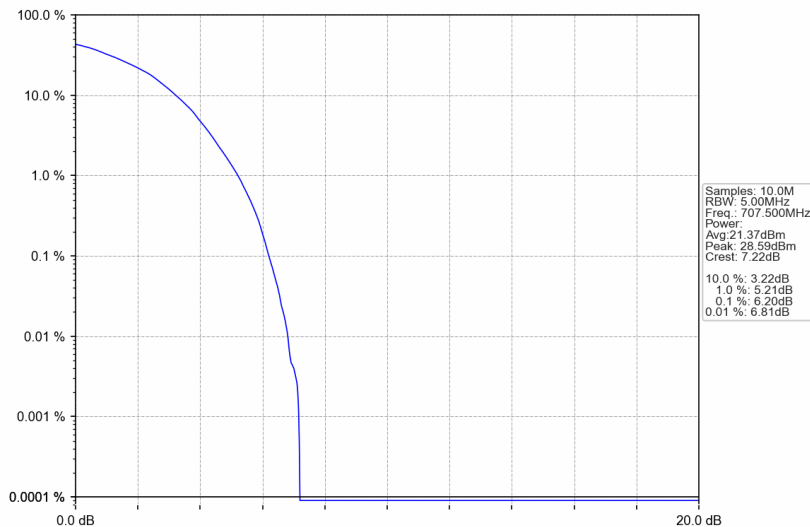
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Band12 1.4MHz 64QAM LCH 699.7MHz RB 6 0 NTN



Band12 1.4MHz 64QAM MCH 707.5MHz RB 6 0 NTN



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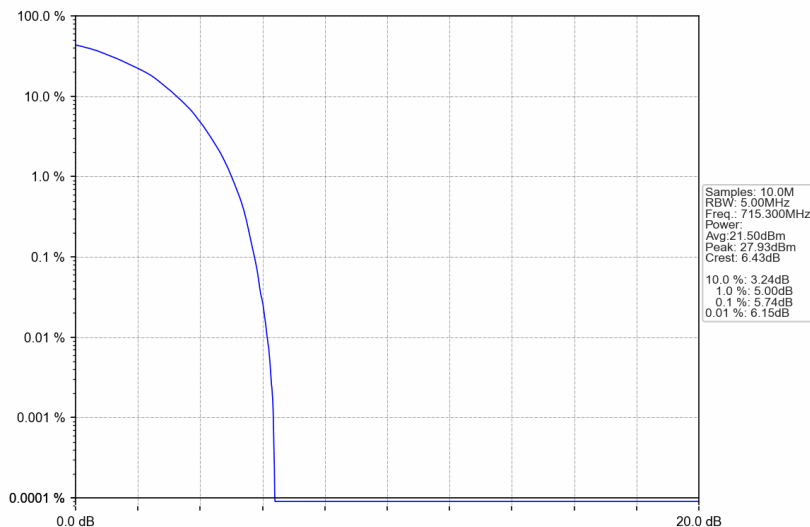
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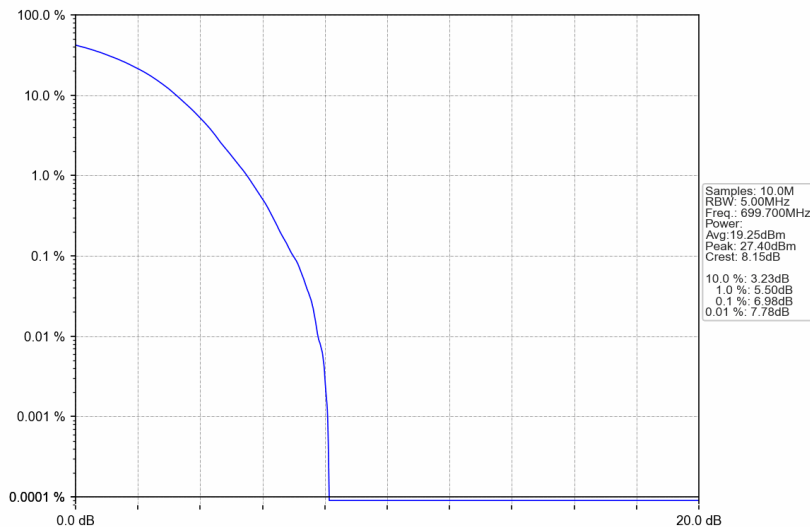
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Band12 1.4MHz 64QAM HCH 715.3MHz_RB_6_0 NTN



Band12 1.4MHz 256QAM LCH 699.7MHz_RB_6_0 NTN



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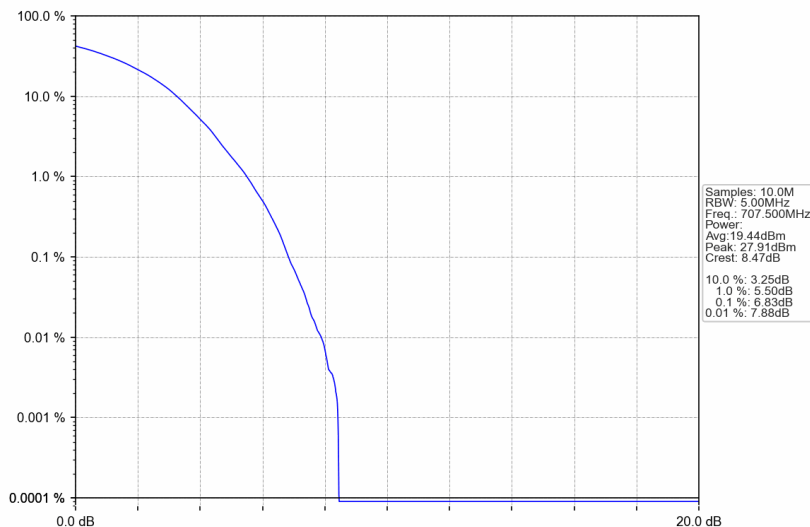
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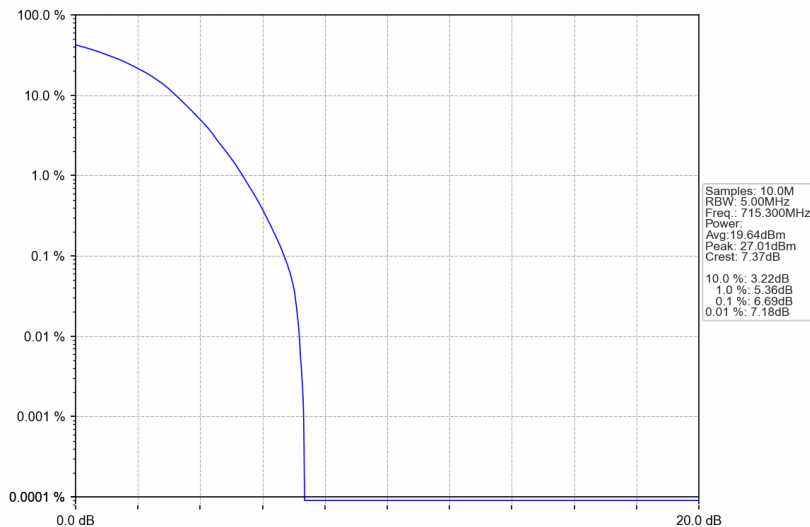
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Band12_1.4MHz_256QAM_MCH_707.5MHz_RB_6_0_NTNV



Band12_1.4MHz_256QAM_HCH_715.3MHz_RB_6_0_NTNV



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4.2 B12_3MHz

4.2.1 Test Result

Band: 12 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	700.5	15	0	5.15	<=13	Pass
	707.5	15	0	5.11	<=13	Pass
	714.5	15	0	4.55	<=13	Pass
16QAM	700.5	15	0	5.96	<=13	Pass
	707.5	15	0	5.95	<=13	Pass
	714.5	15	0	5.39	<=13	Pass
64QAM	700.5	15	0	6.47	<=13	Pass
	707.5	15	0	6.51	<=13	Pass
	714.5	15	0	6.02	<=13	Pass
256QAM	700.5	15	0	6.93	<=13	Pass
	707.5	15	0	6.94	<=13	Pass
	714.5	15	0	6.72	<=13	Pass



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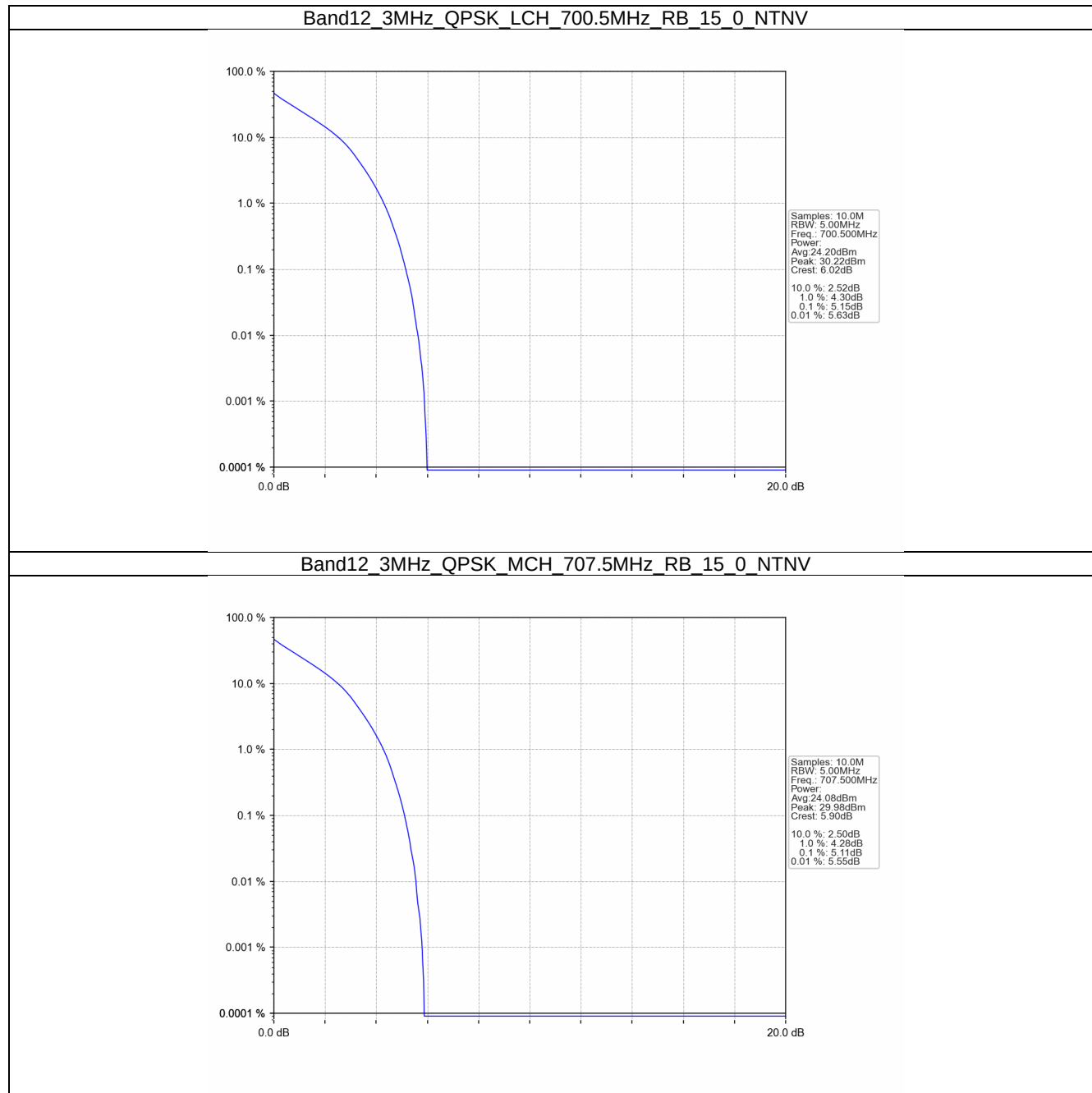
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4.2.2 Test Graph



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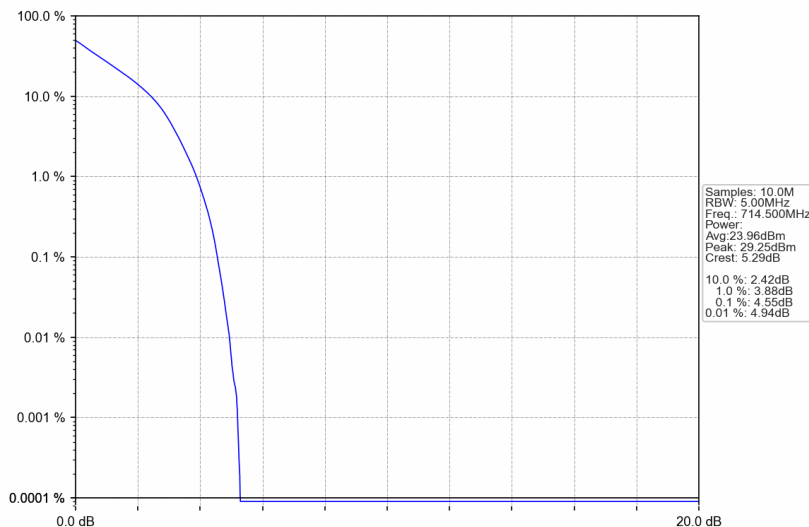
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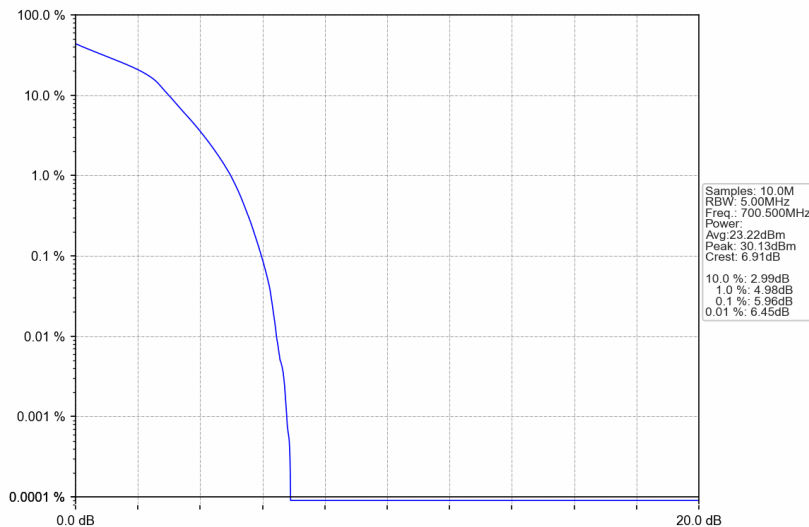
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Band12_3MHz_QPSK_HCH_714.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_LCH_700.5MHz_RB_15_0_NTNV



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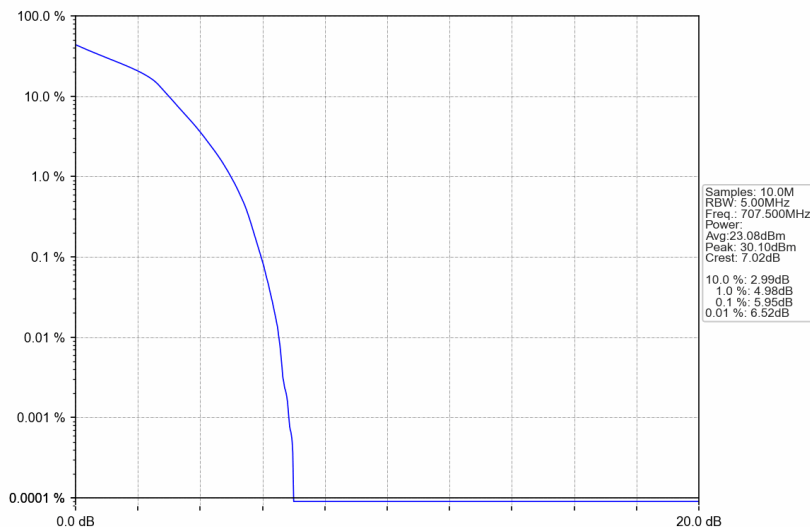
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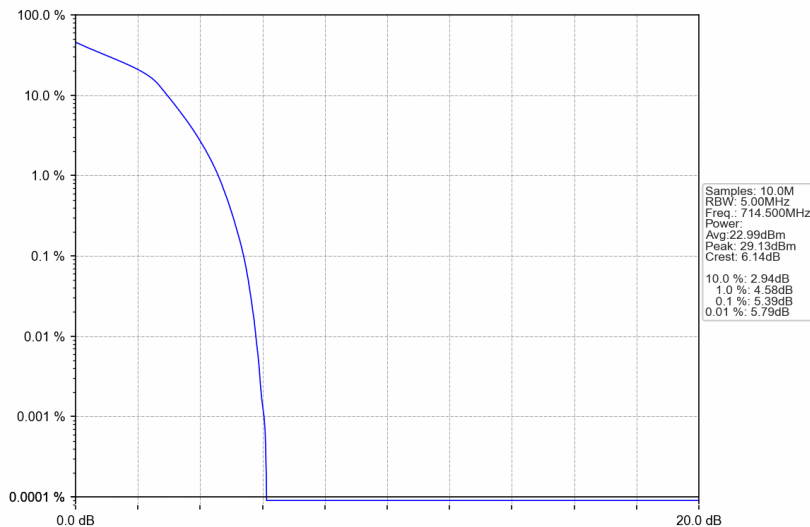
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Band12_3MHz_16QAM_MCH_707.5MHz_RB_15_0_NTNV



Band12_3MHz_16QAM_HCH_714.5MHz_RB_15_0_NTNV



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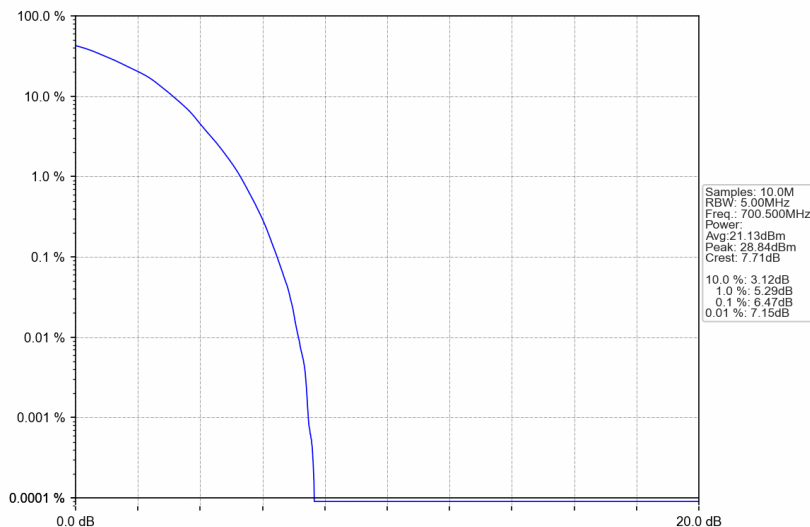
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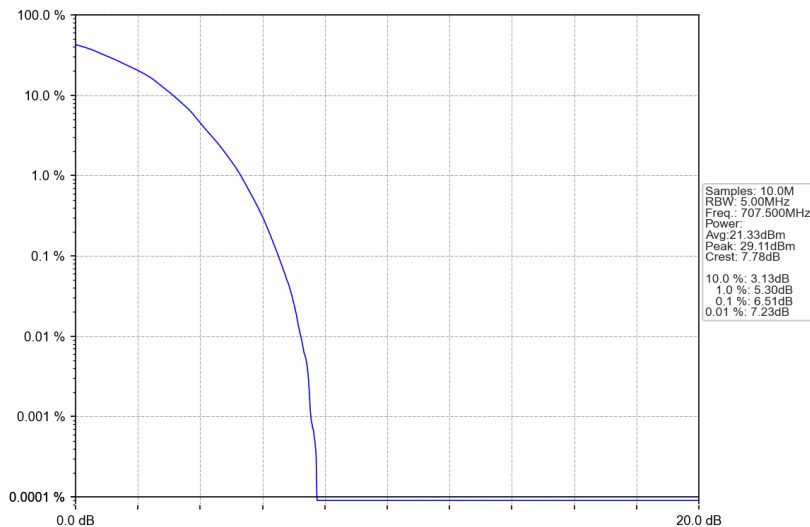
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Band12_3MHz_64QAM_LCH_700.5MHz_RB_15_0_NTNV



Band12_3MHz_64QAM_MCH_707.5MHz_RB_15_0_NTNV



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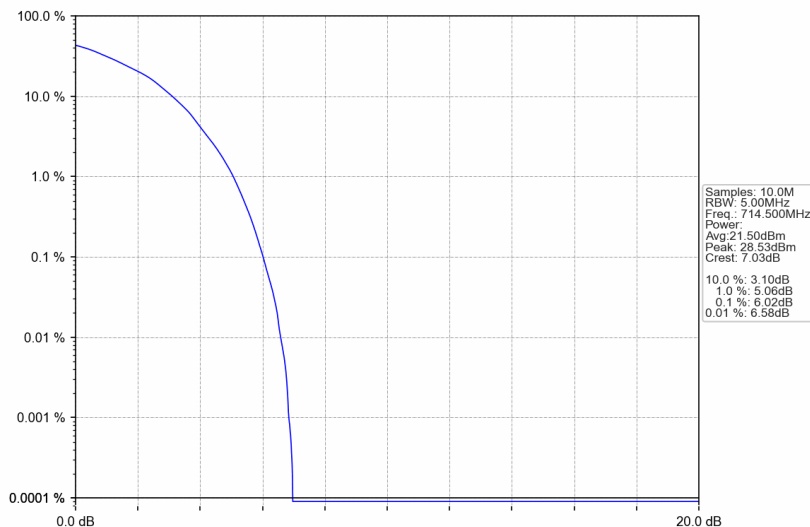
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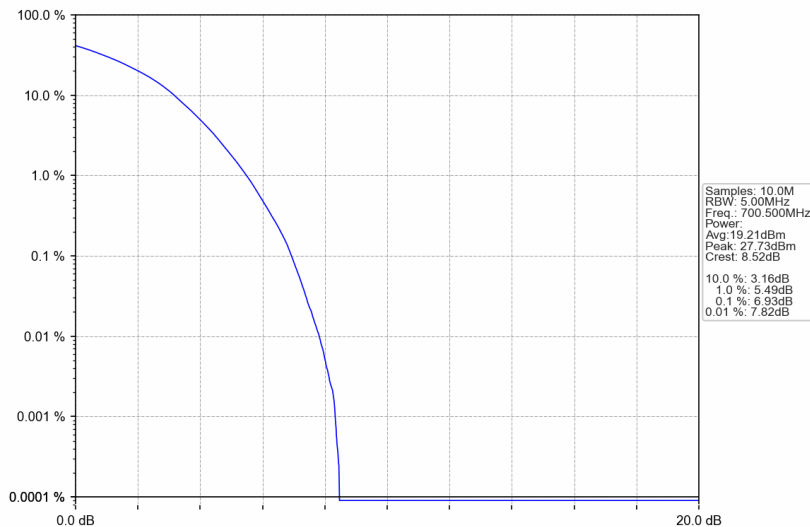
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Band12_3MHz_256QAM_LCH_700.5MHz_RB_15_0_NTNV



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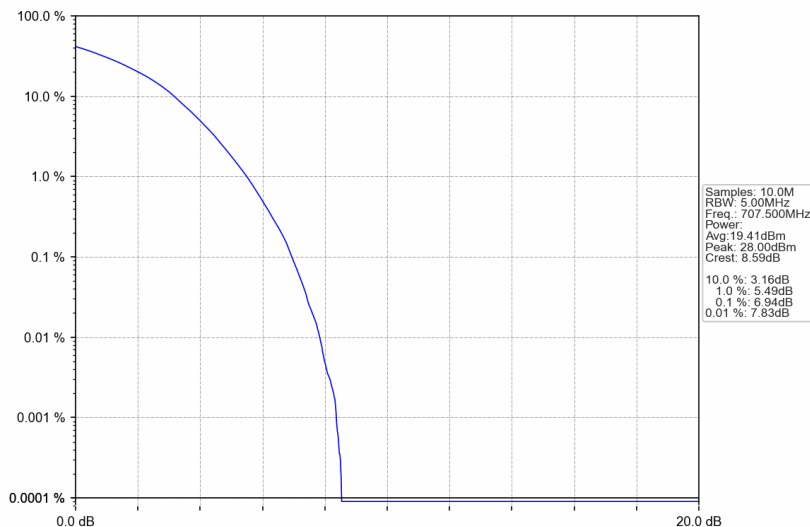
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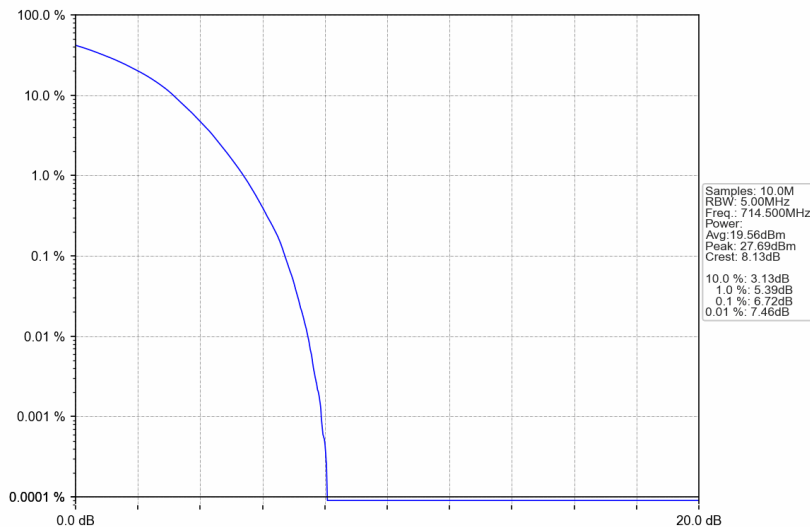
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Band12_3MHz_256QAM_HCH_714.5MHz_RB_15_0_NTNV



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4.3 B12_5MHz

4.3.1 Test Result

Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	701.5	25	0	5.33	<=13	Pass
	707.5	25	0	5.33	<=13	Pass
	713.5	25	0	4.98	<=13	Pass
16QAM	701.5	25	0	6.07	<=13	Pass
	707.5	25	0	6.06	<=13	Pass
	713.5	25	0	5.76	<=13	Pass
64QAM	701.5	25	0	6.52	<=13	Pass
	707.5	25	0	6.55	<=13	Pass
	713.5	25	0	6.22	<=13	Pass
256QAM	701.5	25	0	6.96	<=13	Pass
	707.5	25	0	6.97	<=13	Pass
	713.5	25	0	6.81	<=13	Pass



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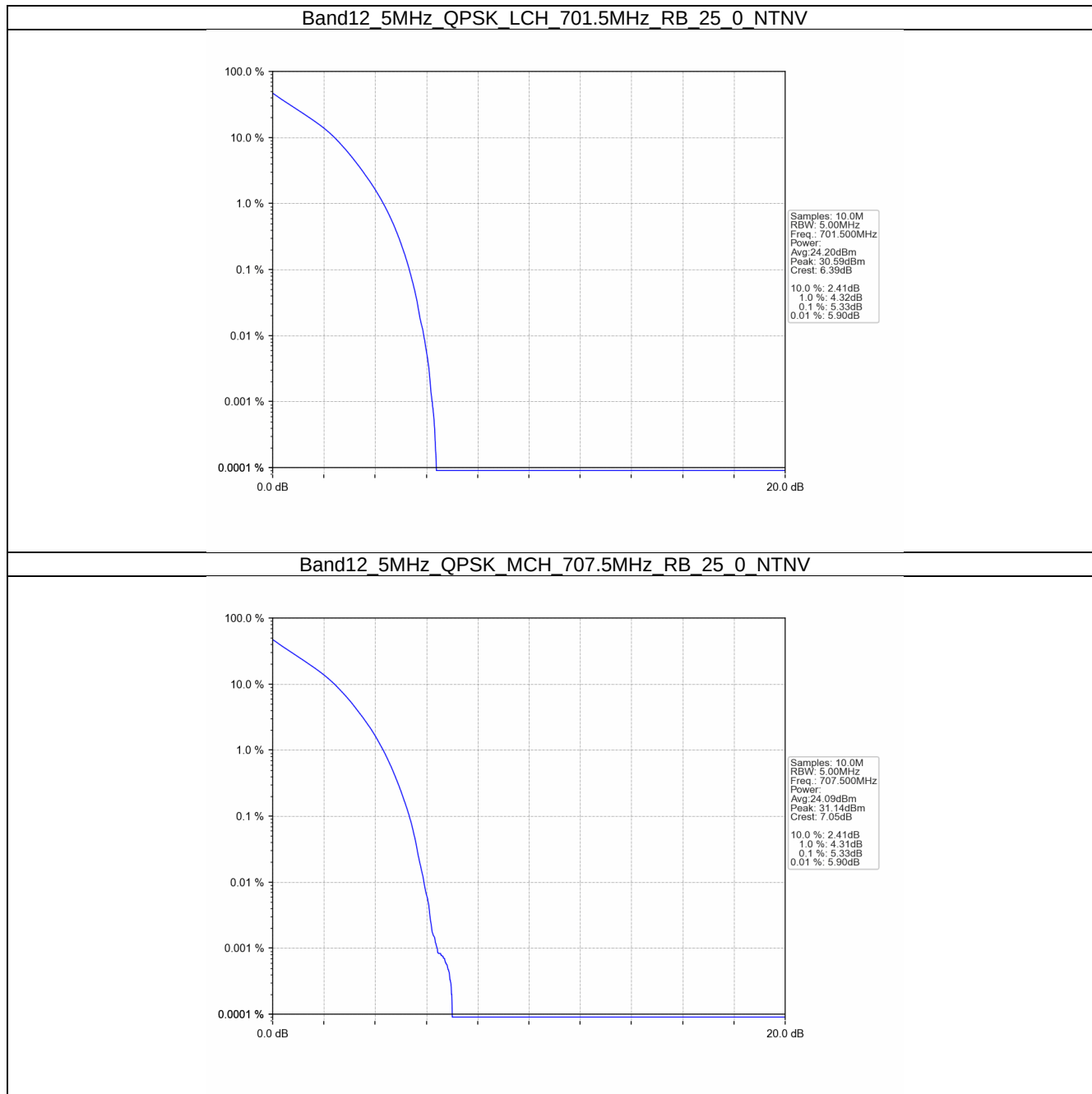
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4.3.2 Test Graph



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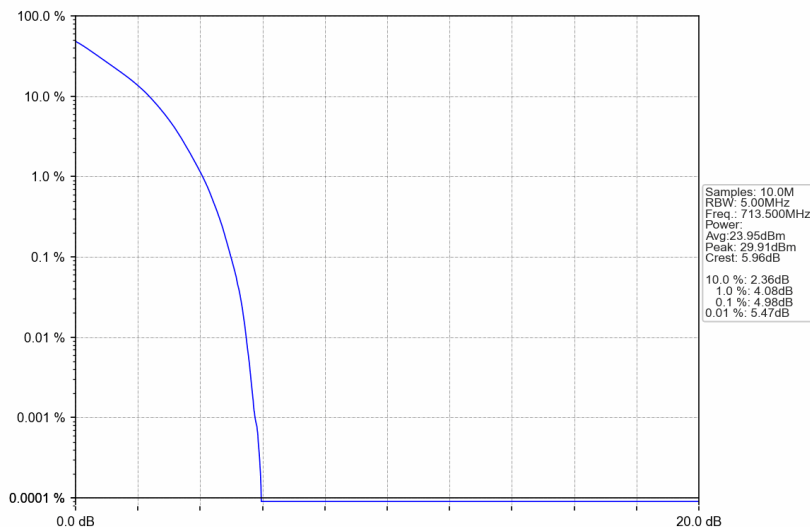
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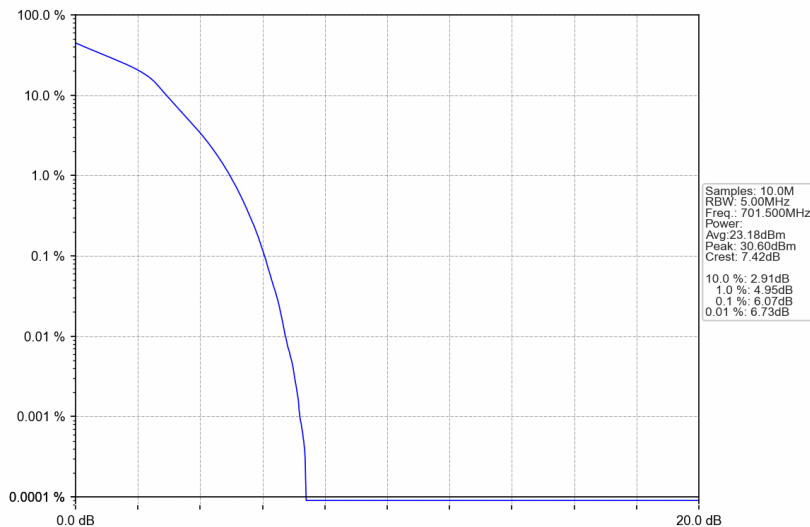
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Band12_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_LCH_701.5MHz_RB_25_0_NTNV



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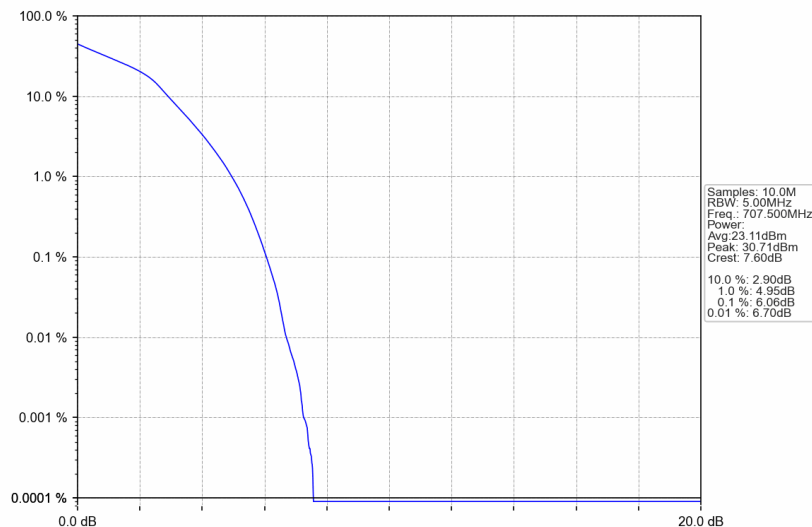
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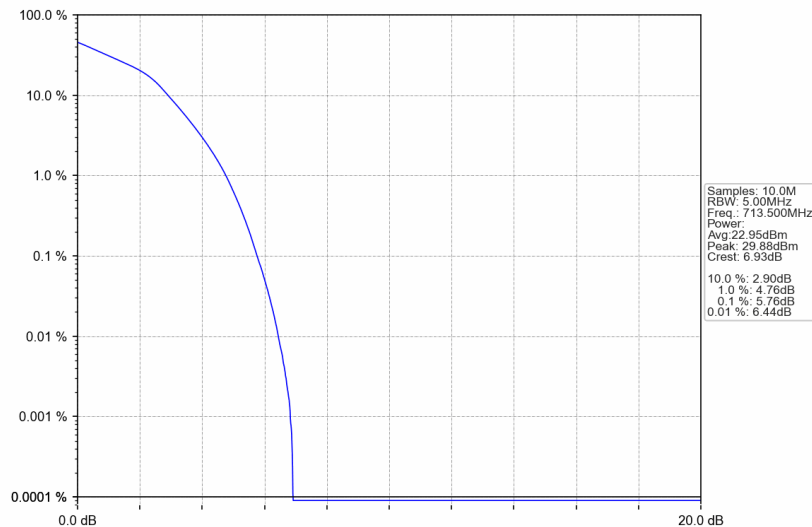
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Band12_5MHz_16QAM_MCH_707.5MHz_RB_25_0_NTNV



Band12_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



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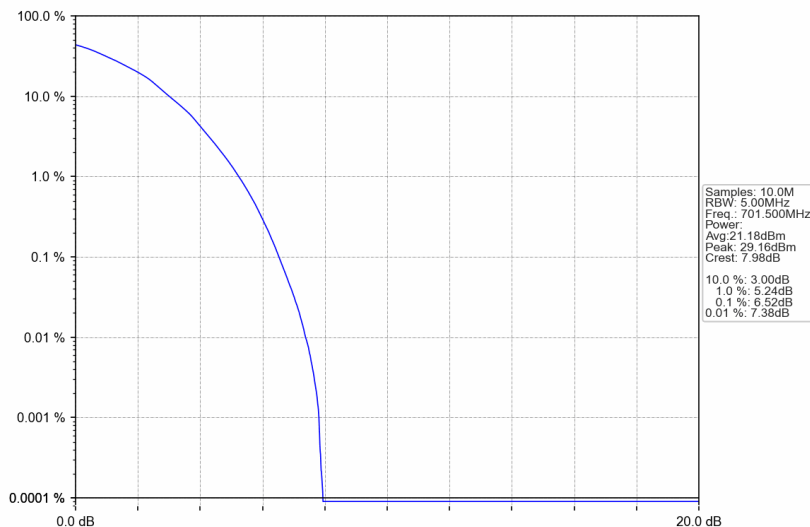
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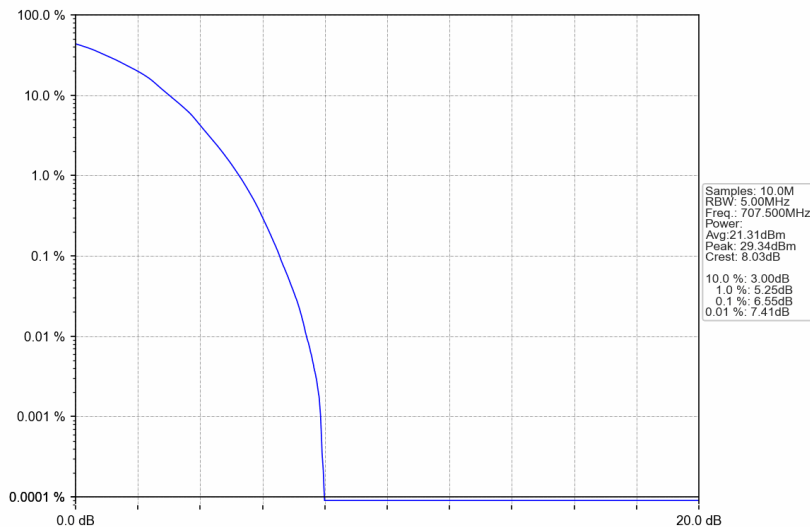
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Band12_5MHz_64QAM_LCH_701.5MHz_RB_25_0_NTNV



Band12_5MHz_64QAM_MCH_707.5MHz_RB_25_0_NTNV



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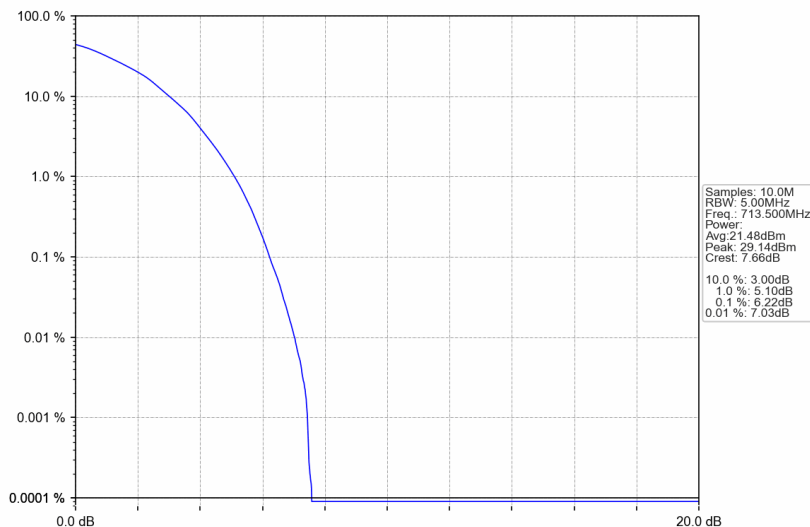
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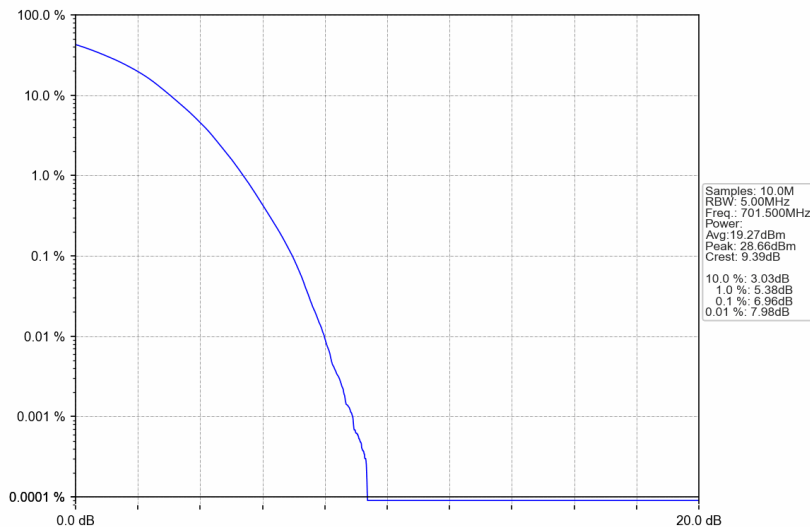
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Band12_5MHz_64QAM_HCH_713.5MHz_RB_25_0_NTNV



Band12_5MHz_256QAM_LCH_701.5MHz_RB_25_0_NTNV



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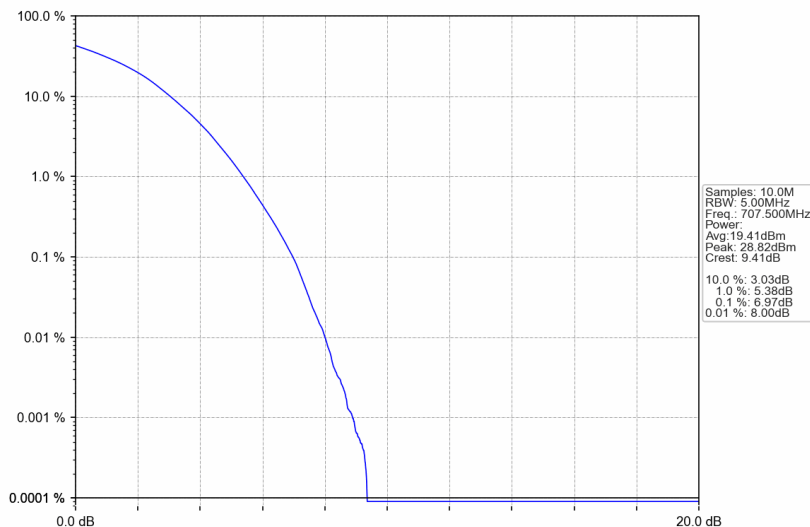
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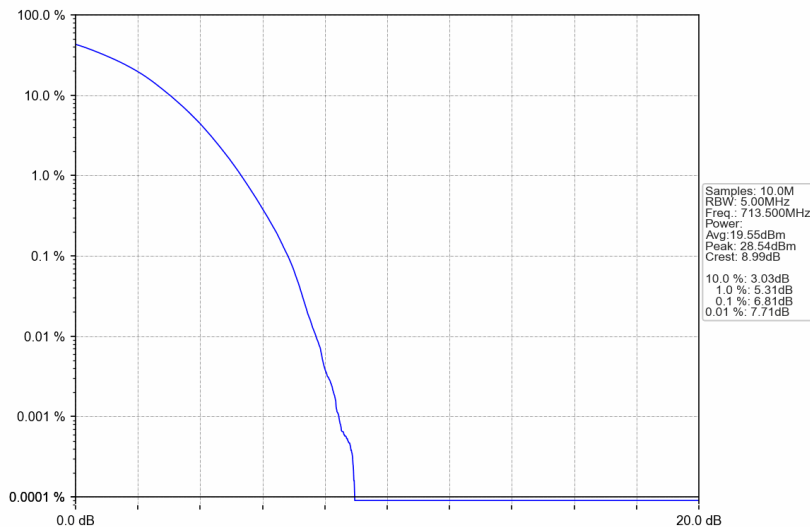
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Band12_5MHz_256QAM_MCH_707.5MHz_RB_25_0_NTNV



Band12_5MHz_256QAM_HCH_713.5MHz_RB_25_0_NTNV



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4.4 B12_10MHz

4.4.1 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	5.10	<=13	Pass
	707.5	50	0	5.08	<=13	Pass
	711	50	0	4.95	<=13	Pass
16QAM	704	50	0	5.97	<=13	Pass
	707.5	50	0	5.99	<=13	Pass
	711	50	0	5.88	<=13	Pass
64QAM	704	50	0	6.55	<=13	Pass
	707.5	50	0	6.53	<=13	Pass
	711	50	0	6.39	<=13	Pass
256QAM	704	50	0	6.80	<=13	Pass
	707.5	50	0	6.81	<=13	Pass
	711	50	0	6.74	<=13	Pass



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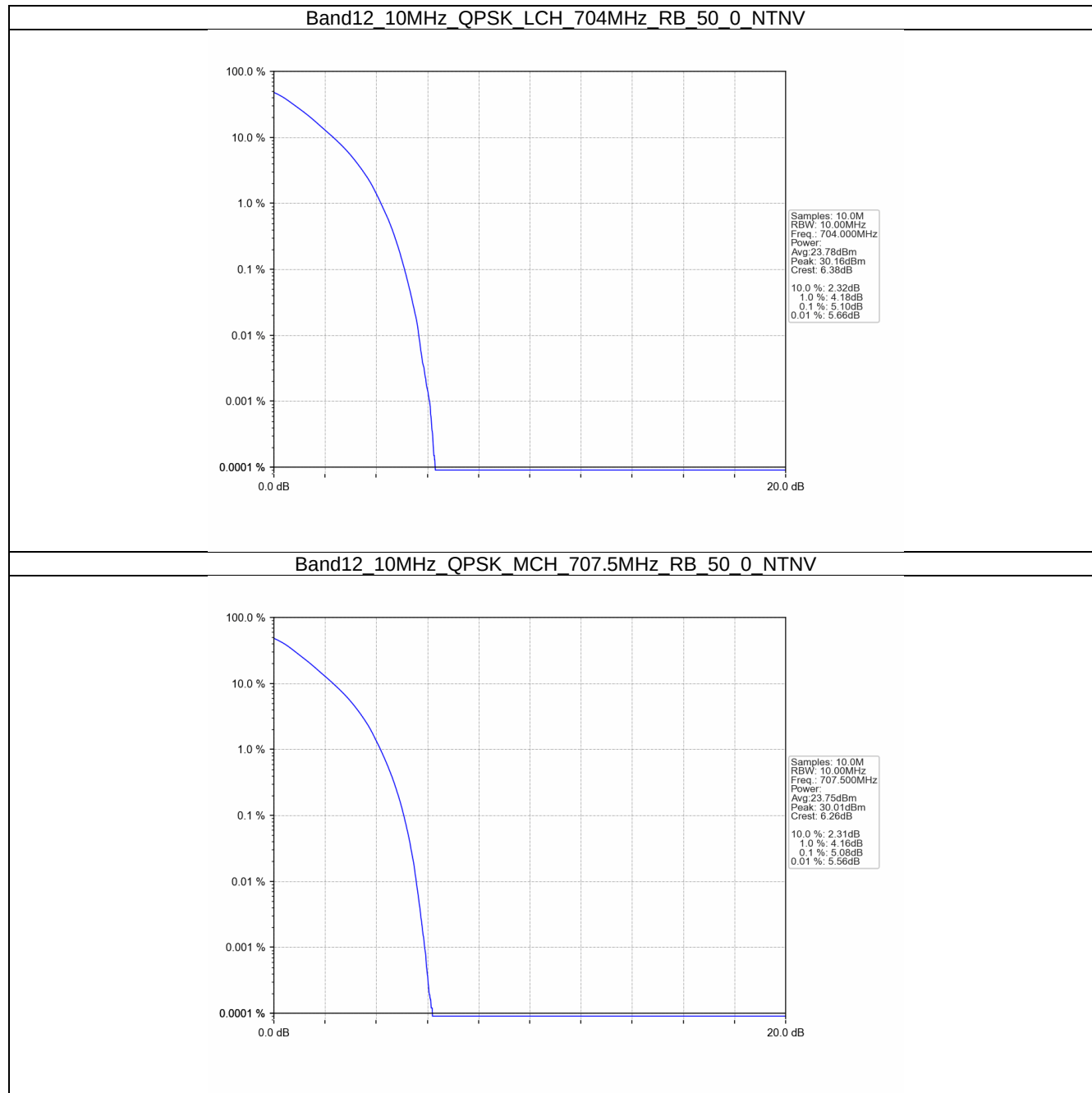
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4.4.2 Test Graph



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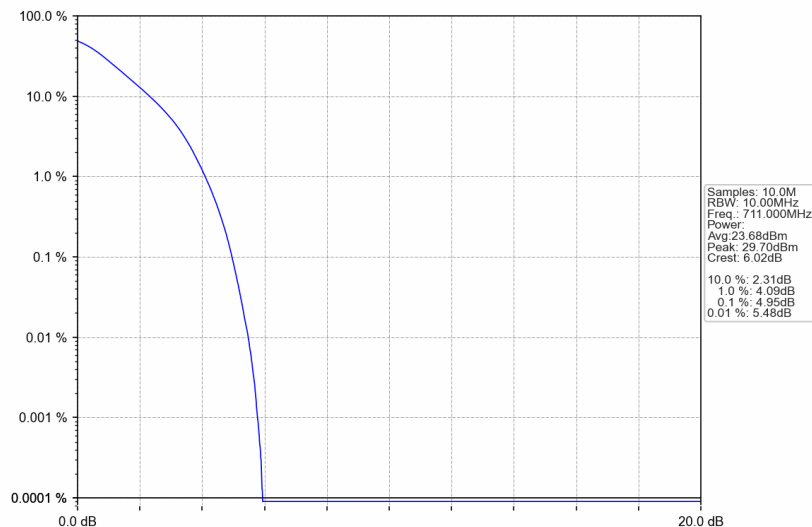
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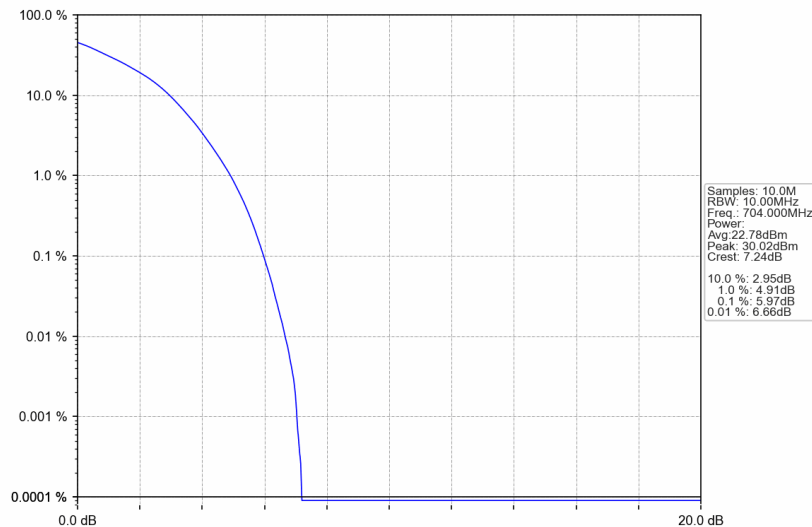
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Band12_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_LCH_704MHz_RB_50_0_NTNV



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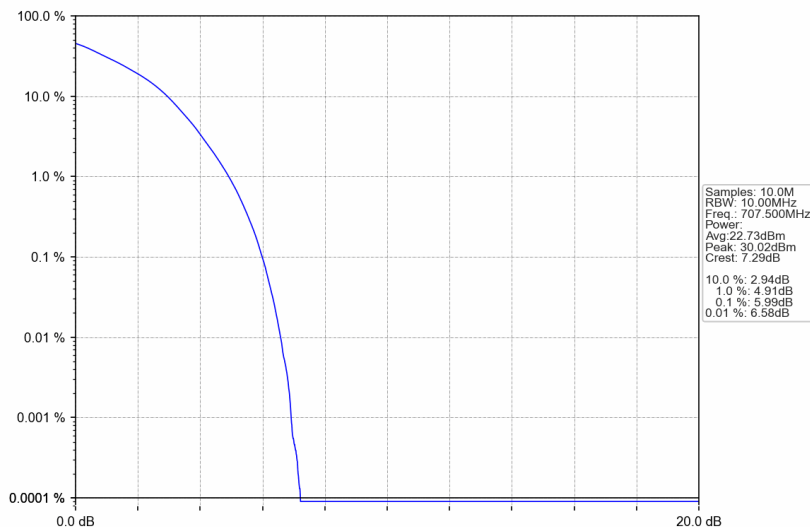
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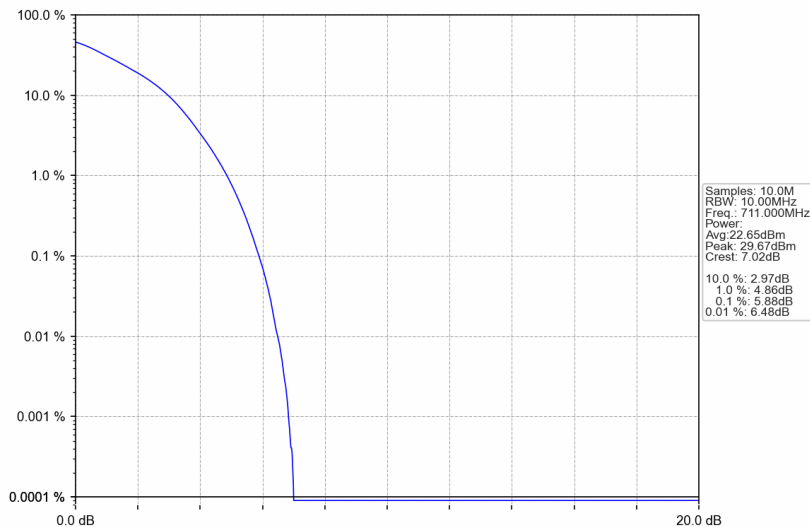
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Band12_10MHz_16QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_16QAM_HCH_711MHz_RB_50_0_NTNV



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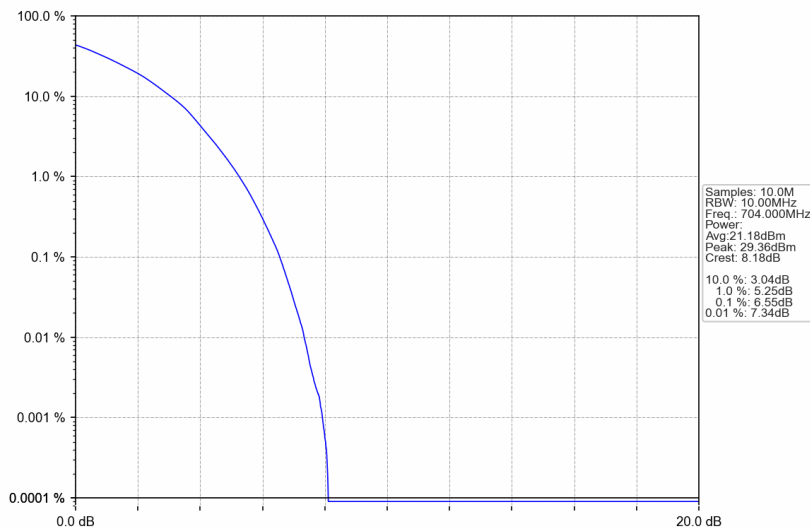
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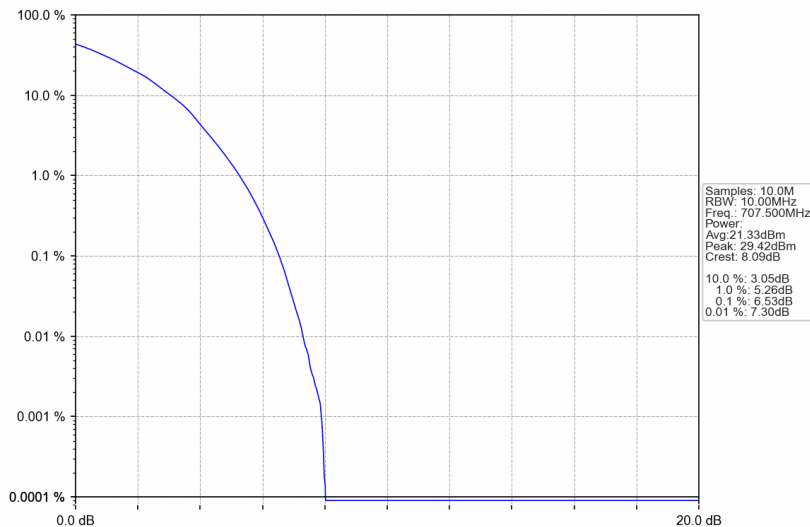
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Band12_10MHz_64QAM_LCH_704MHz_RB_50_0_NTNV



Band12_10MHz_64QAM_MCH_707.5MHz_RB_50_0_NTNV



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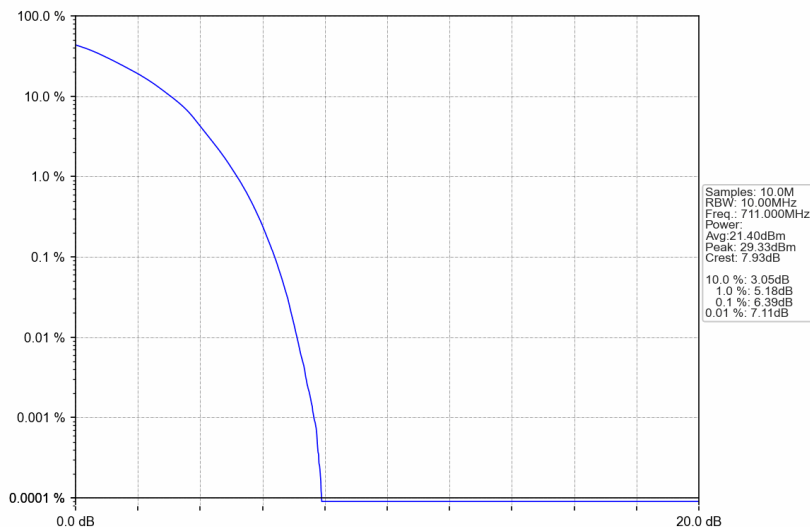
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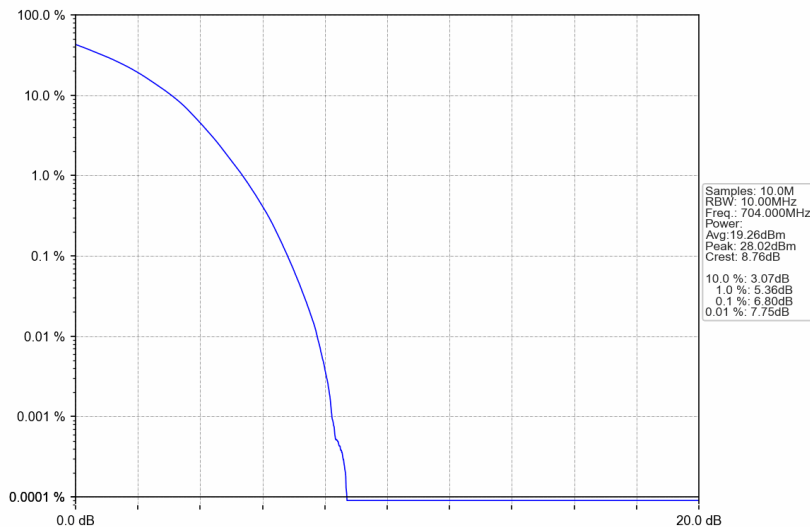
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Band12_10MHz_64QAM_HCH_711MHz_RB_50_0_NTNV



Band12_10MHz_256QAM_LCH_704MHz_RB_50_0_NTNV



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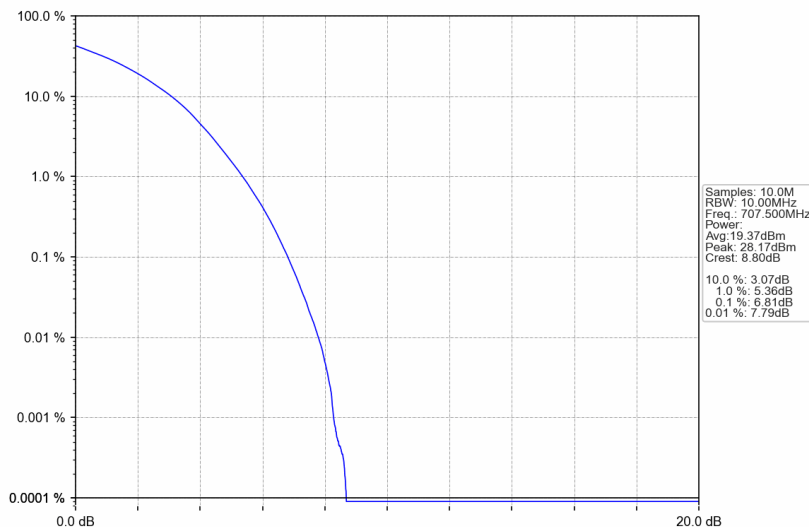
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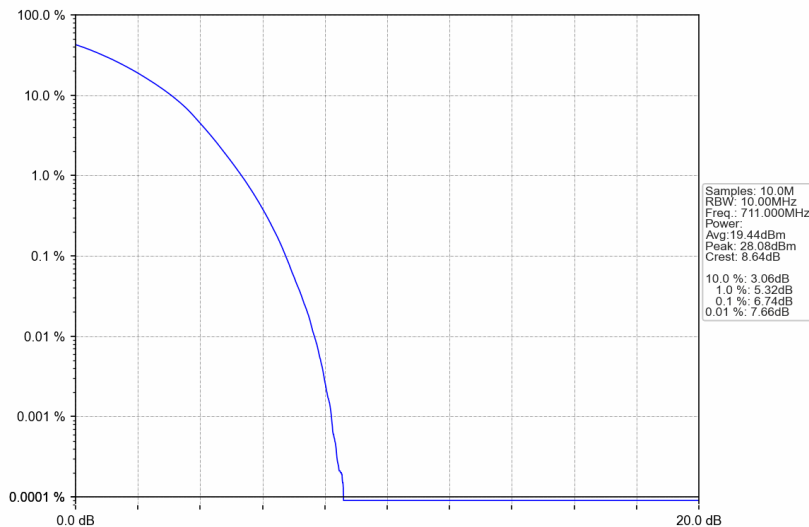
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Band12_10MHz_256QAM_MCH_707.5MHz_RB_50_0_NTNV



Band12_10MHz_256QAM_HCH_711MHz_RB_50_0_NTNV



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5. Spurious Emission & Band Edges

5.1 B12_1.4MHz

5.1.1 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		Pass
		6	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass
16QAM	699.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass
64QAM	699.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass
256QAM	699.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
			0	Refer To Test Graph		Pass



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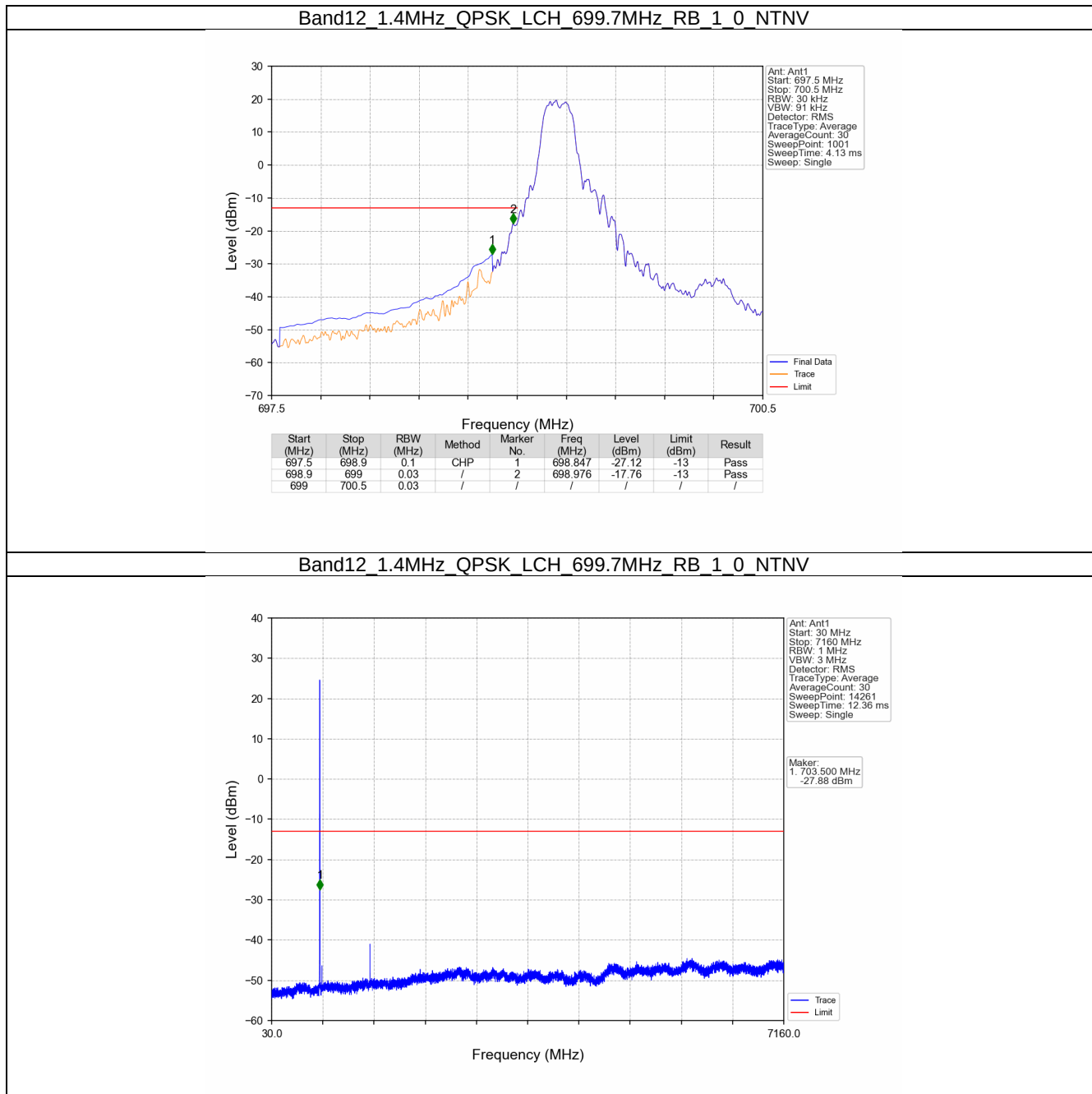
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5.1.2 Test Graph



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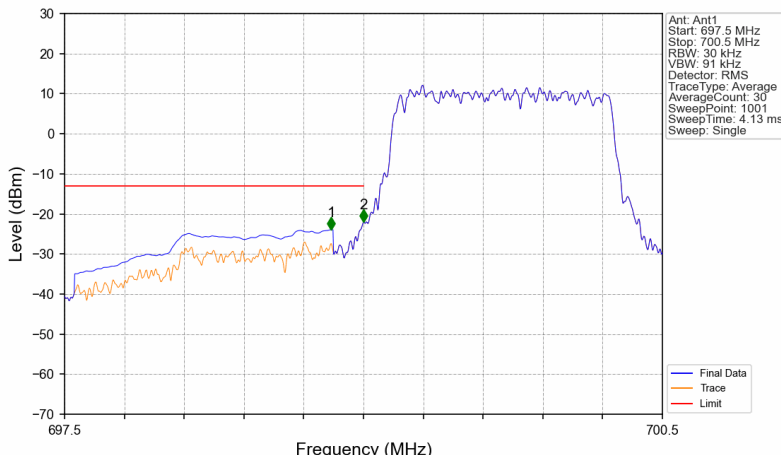
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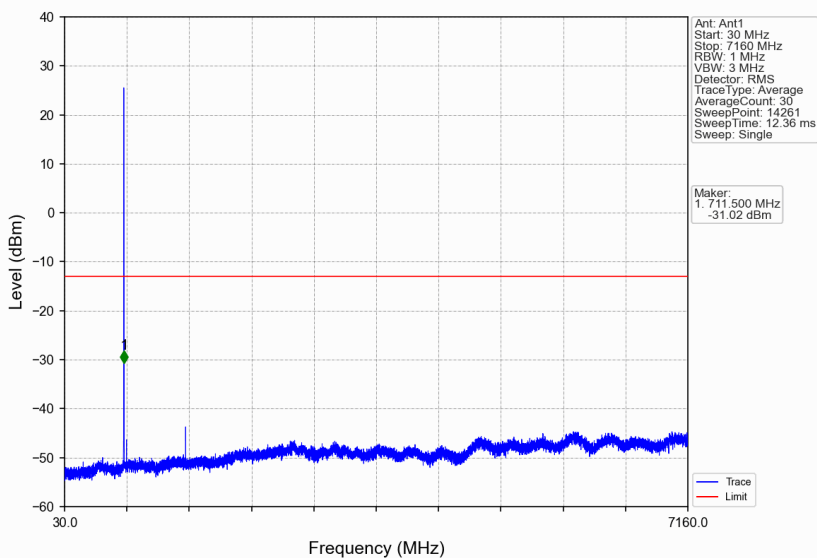
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Band12_1.4MHz_QPSK_LCH_699.7MHz_RB_6_0_NTNV



Band12_1.4MHz_QPSK_MCH_707.5MHz_RB_1_0_NTNV



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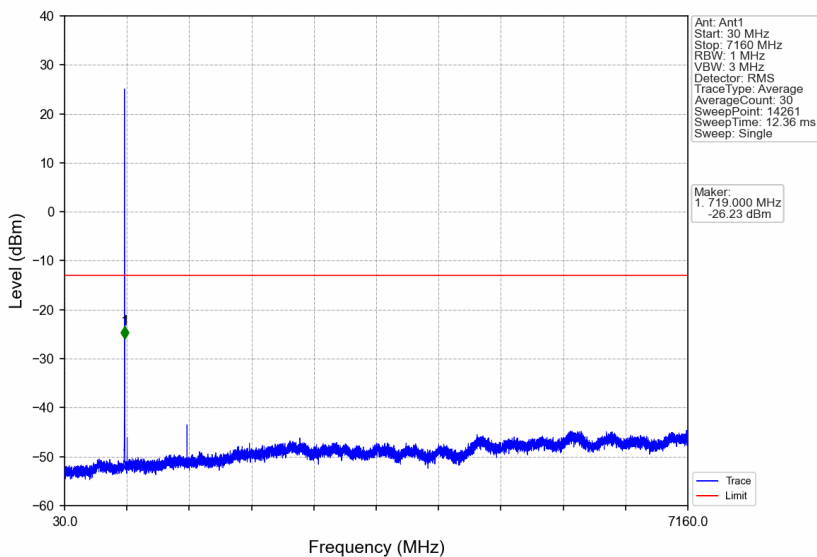
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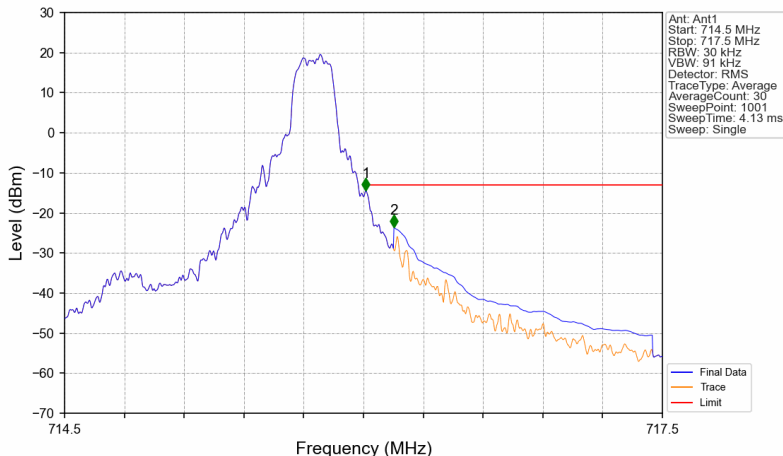
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Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_1_0_NTNV



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	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.012	-14.43	-13	Pass
716.1	717.5	0.1	CHP	2	716.153	-23.60	-13	Pass



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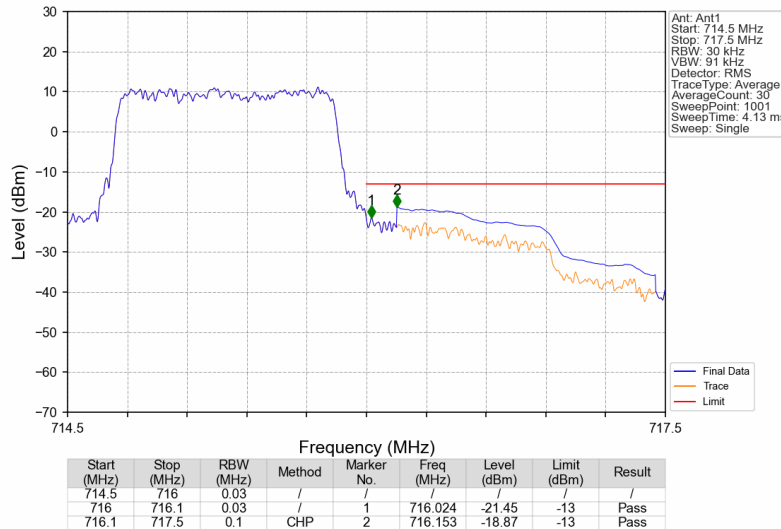
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Report No.: SEWM2311000456RG01

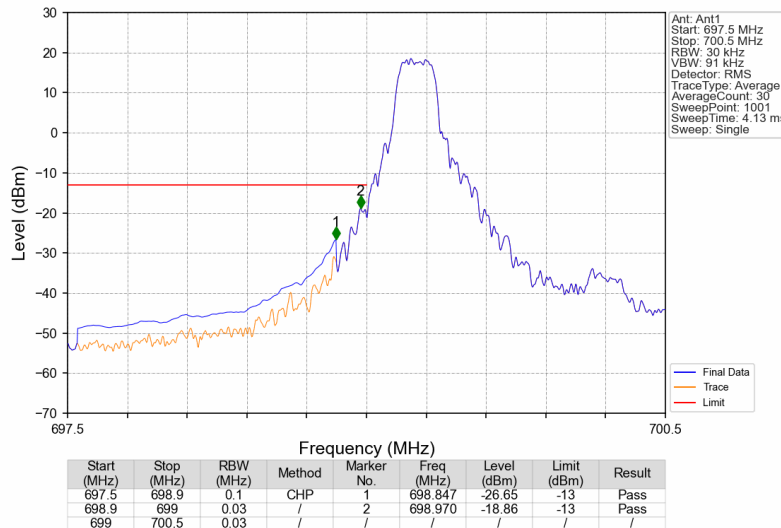
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Band12_1.4MHz_QPSK_HCH_715.3MHz_RB_6_0_NTNV



Band12_1.4MHz_16QAM_LCH_699.7MHz_RB_1_0_NTNV



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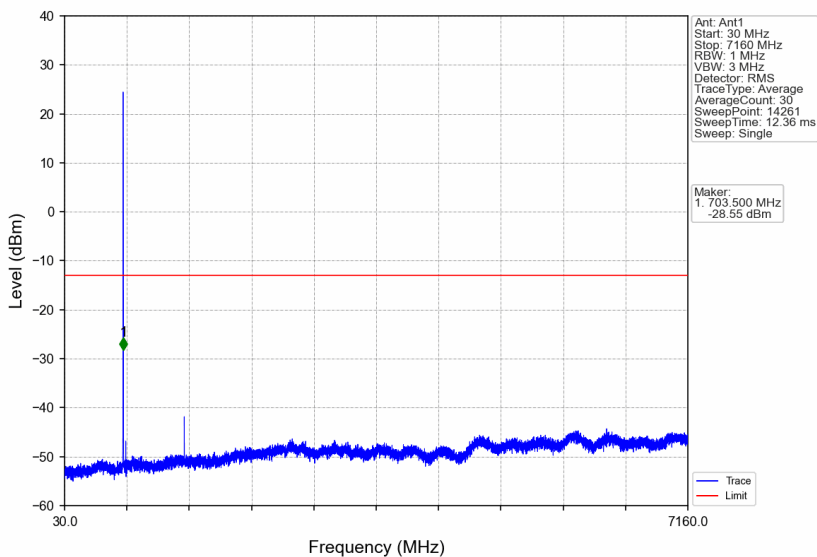
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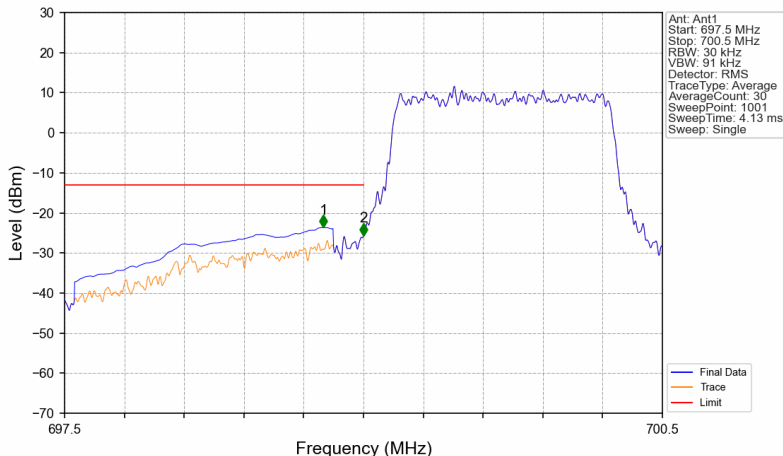
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Band12 1.4MHz 16QAM LCH 699.7MHz_RB_1_0 NTN



Band12 1.4MHz 16QAM LCH 699.7MHz_RB_6_0 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.799	-23.54	-13	Pass
698.9	699	0.03	/	2	699.000	-25.67	-13	Pass
699	700.5	0.03	/	/	/	/	/	/



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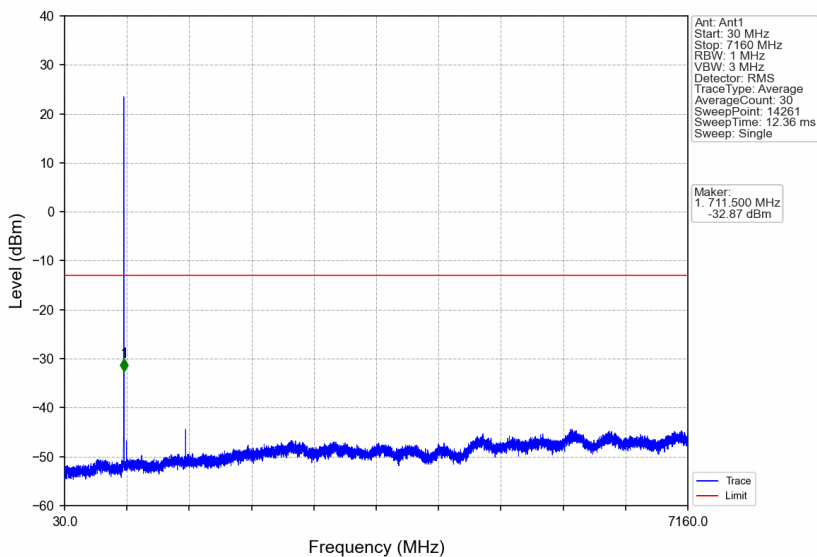
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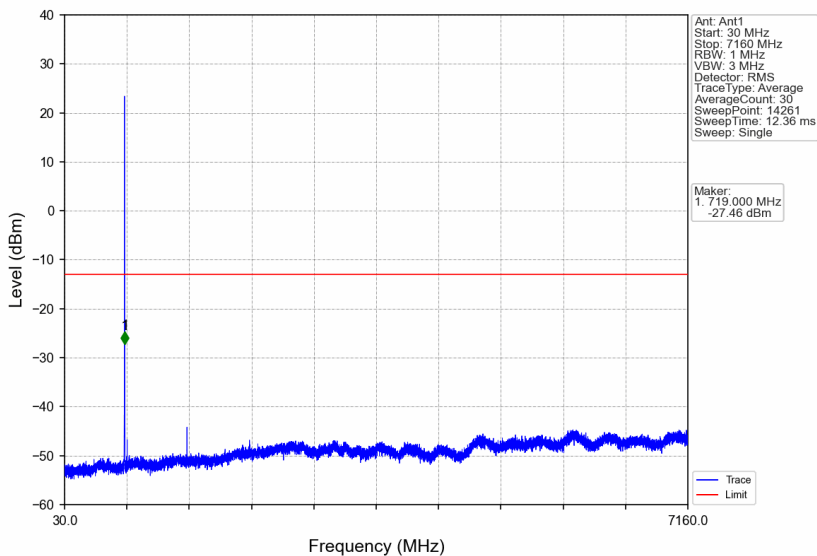
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Band12 1.4MHz 16QAM MCH 707.5MHz RB 1 0 NTV



Band12 1.4MHz 16QAM HCH 715.3MHz RB 1 0 NTV



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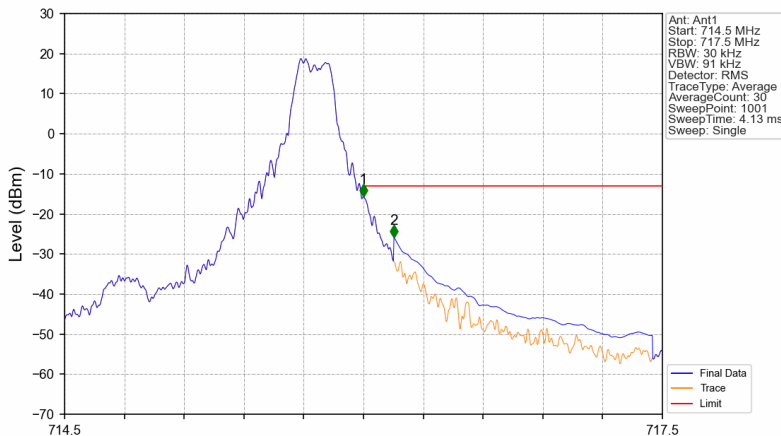
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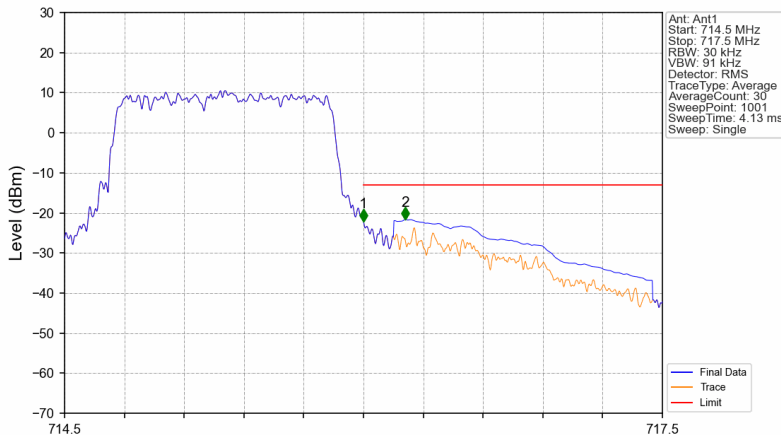
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Band12 1.4MHz 16QAM HCH 715.3MHz_RB_1_5 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-15.65	-13	Pass
716.1	717.5	0.1	CHP	2	716.153	-25.90	-13	Pass

Band12 1.4MHz 16QAM HCH 715.3MHz_RB_6_0 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-22.13	-13	Pass
716.1	717.5	0.1	CHP	2	716.210	-21.63	-13	Pass



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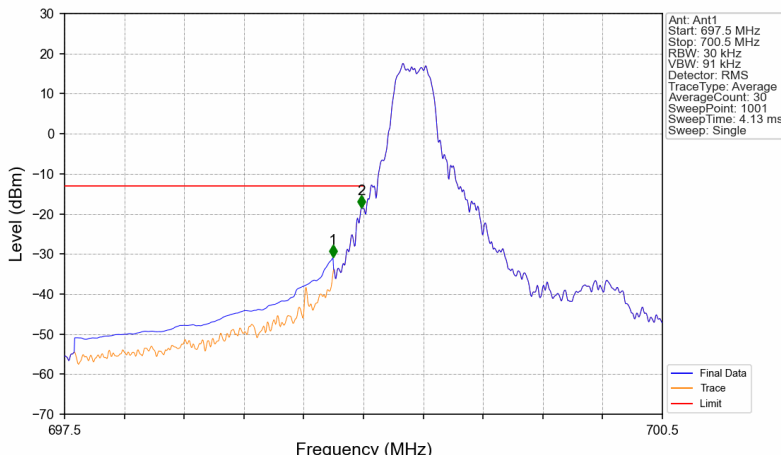
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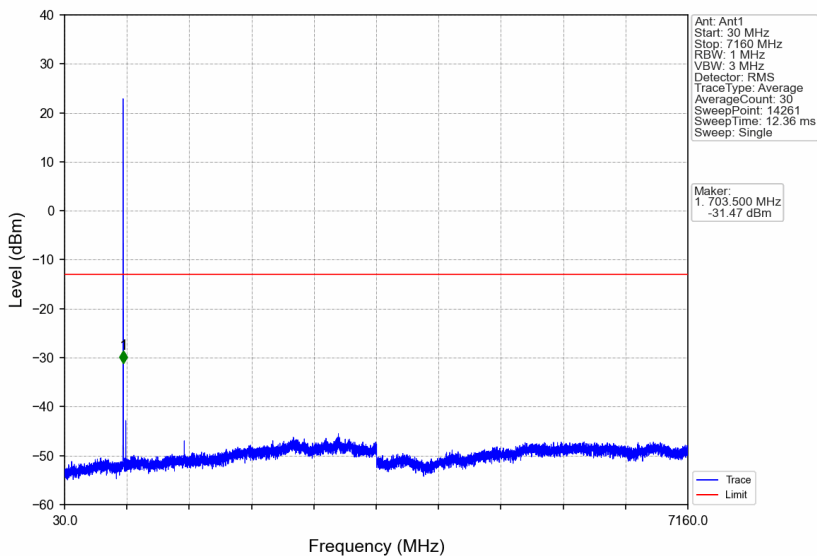
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Band12 1.4MHz 64QAM LCH 699.7MHz_RB_1_0 NTN



Band12 1.4MHz 64QAM LCH 699.7MHz_RB_1_0 NTN



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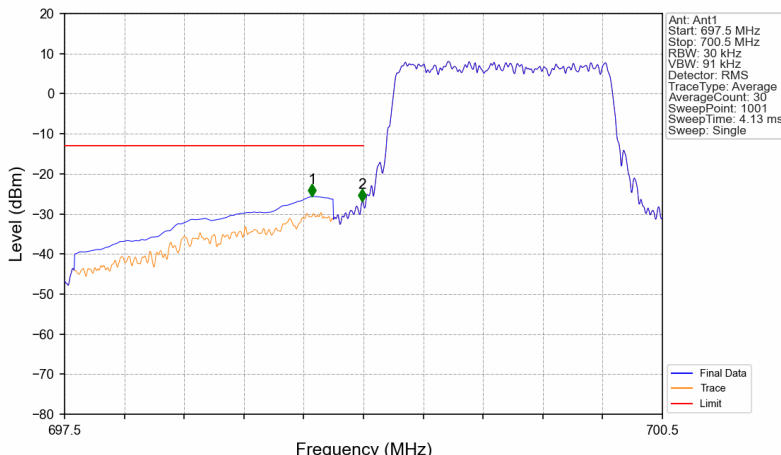
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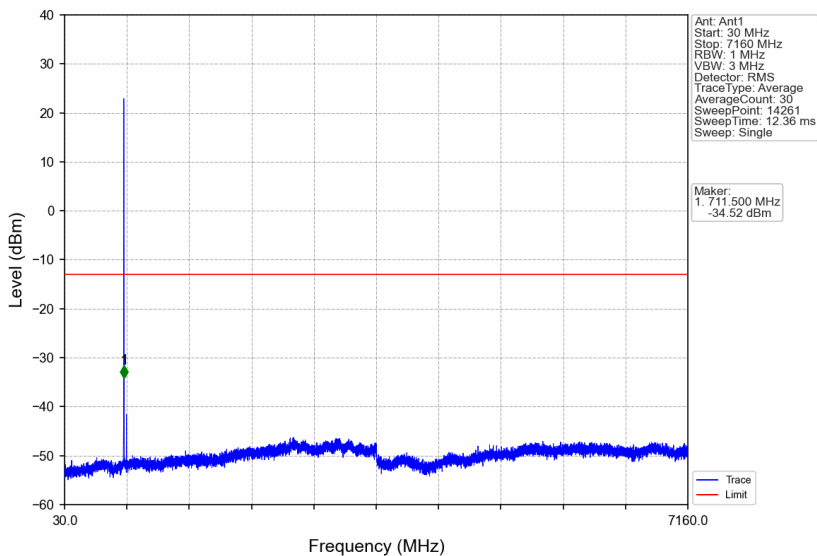
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Band12 1.4MHz 64QAM LCH 699.7MHz_RB_6_0 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	CHP	1	698.742	-25.66	-13	Pass
698.9	699	0.03	/	2	698.994	-26.96	-13	Pass
699	700.5	0.03	/	/	/	/	/	/

Band12 1.4MHz 64QAM MCH 707.5MHz_RB_1_0 NTN



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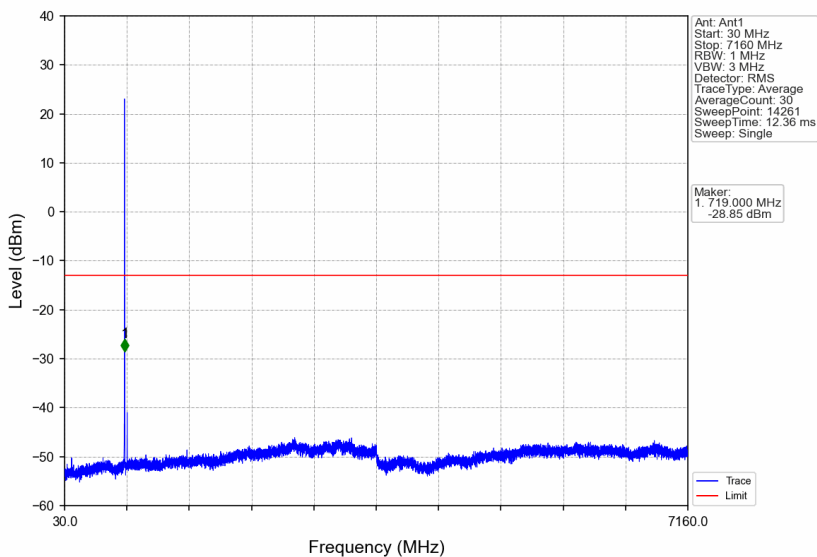
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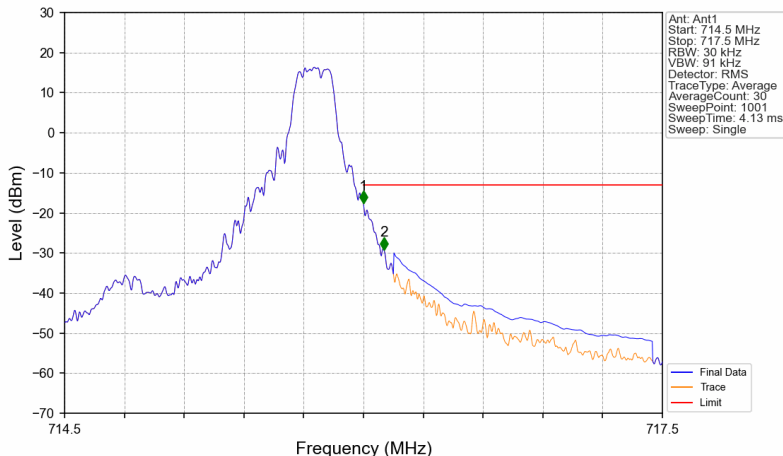
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Band12 1.4MHz 64QAM HCH 715.3MHz RB_1_0 NTN



Band12 1.4MHz 64QAM HCH 715.3MHz RB_1_5 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	1	716.000	-17.63	-13	Pass
716	717.5	0.1	CHP	2	716.102	-29.20	-13	Pass



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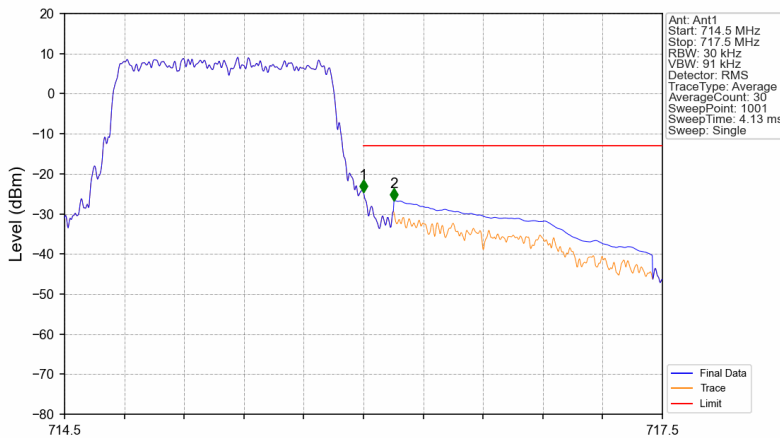
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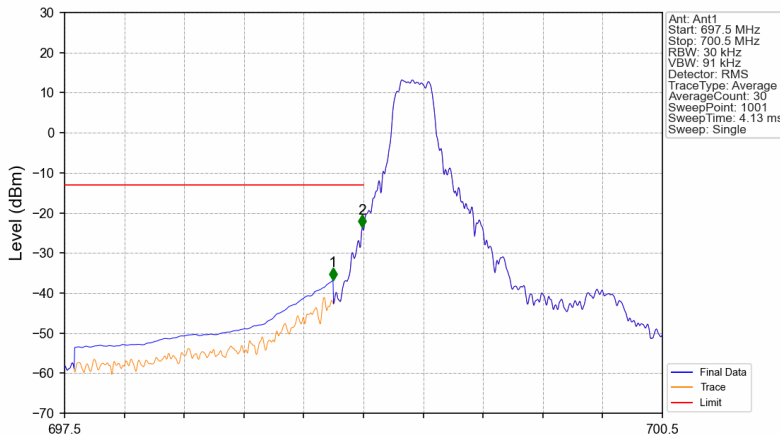
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Band12 1.4MHz 64QAM HCH 715.3MHz_RB_6_0 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-24.67	-13	Pass
716.1	717.5	0.1	CHP	2	716.153	-26.70	-13	Pass

Band12 1.4MHz 256QAM LCH 699.7MHz_RB_1_0 NTN



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	-36.77	-13	Pass
698.9	699	0.03	/	2	698.994	-23.64	-13	Pass
699	700.5	0.03	/	/	/	/	/	/



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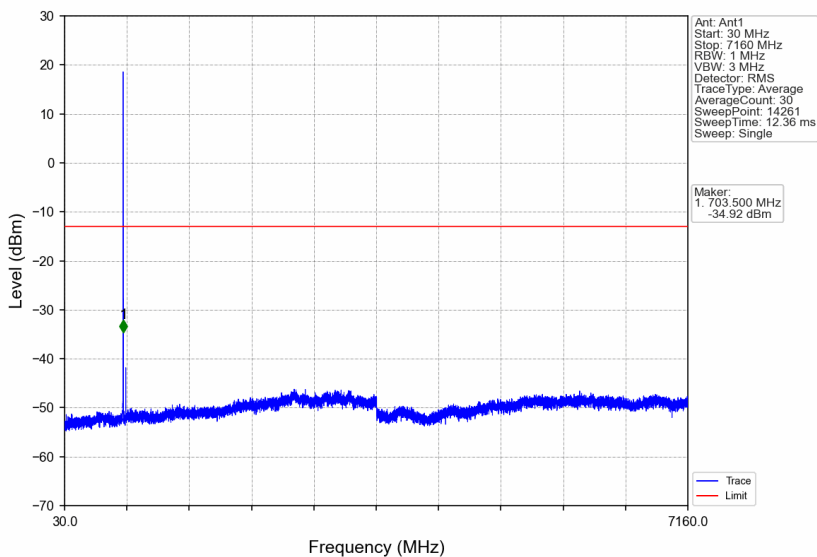
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Report No.: SEWM2311000456RG01

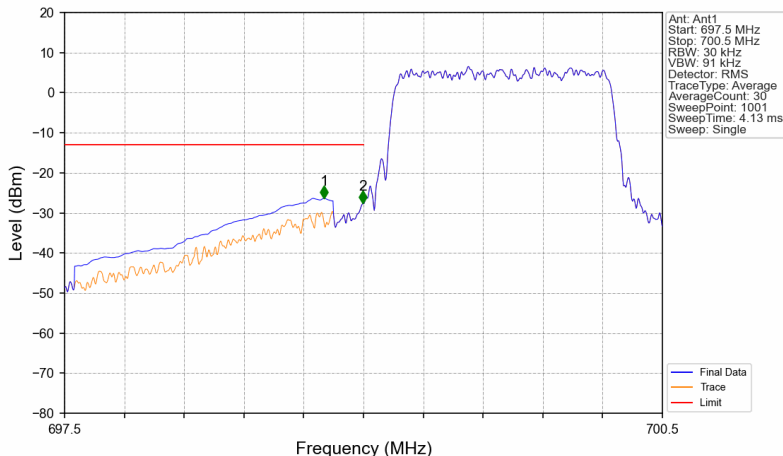
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Band12_1.4MHz_256QAM_LCH_699.7MHz_RB_1_0_NTNV



Band12_1.4MHz_256QAM_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	698.802	-26.38	-13	Pass
698.9	699	0.03	/	2	698.997	-27.70	-13	Pass
699	700.5	0.03	/	/	/	/	/	/



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