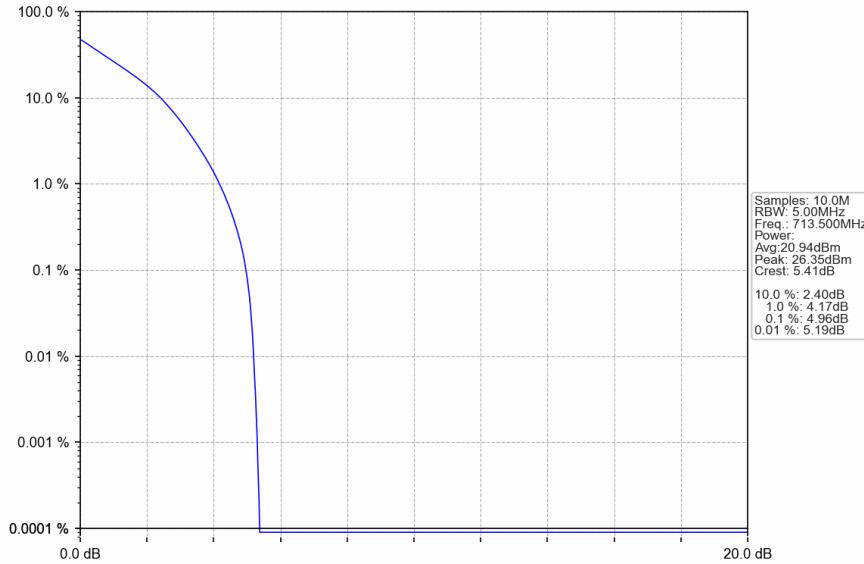
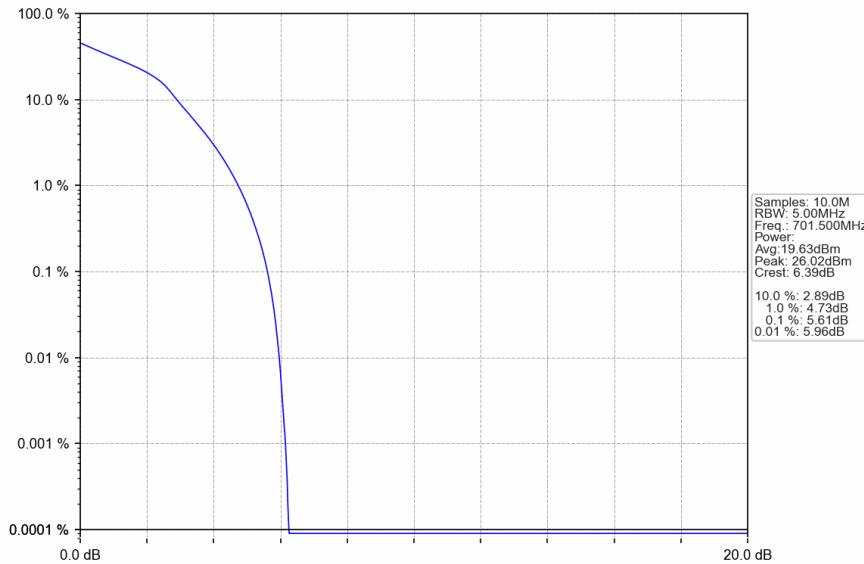
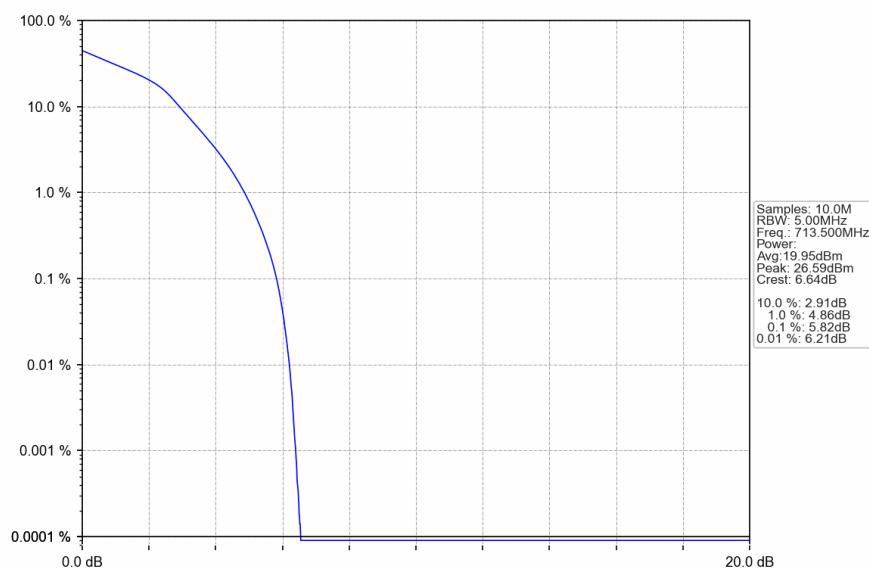
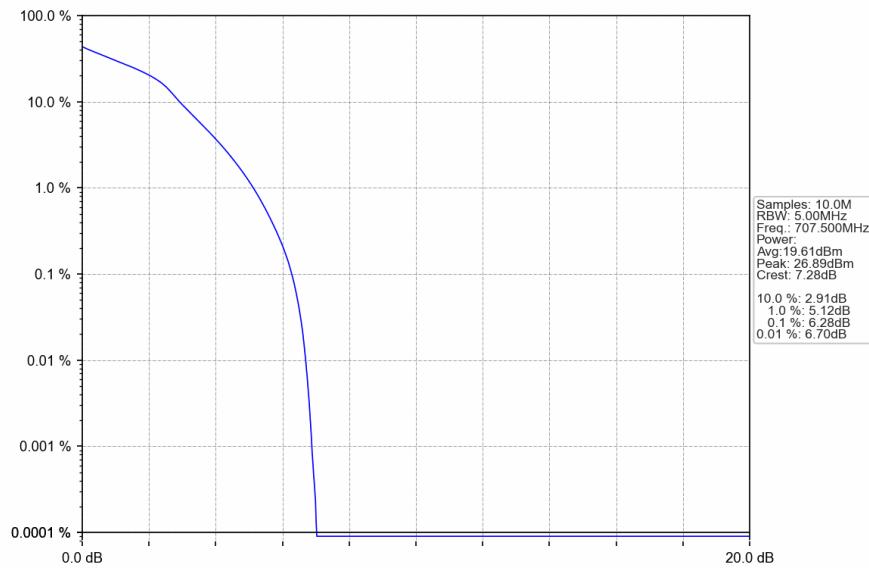


**Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV****Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_25\_0\_NTNV**

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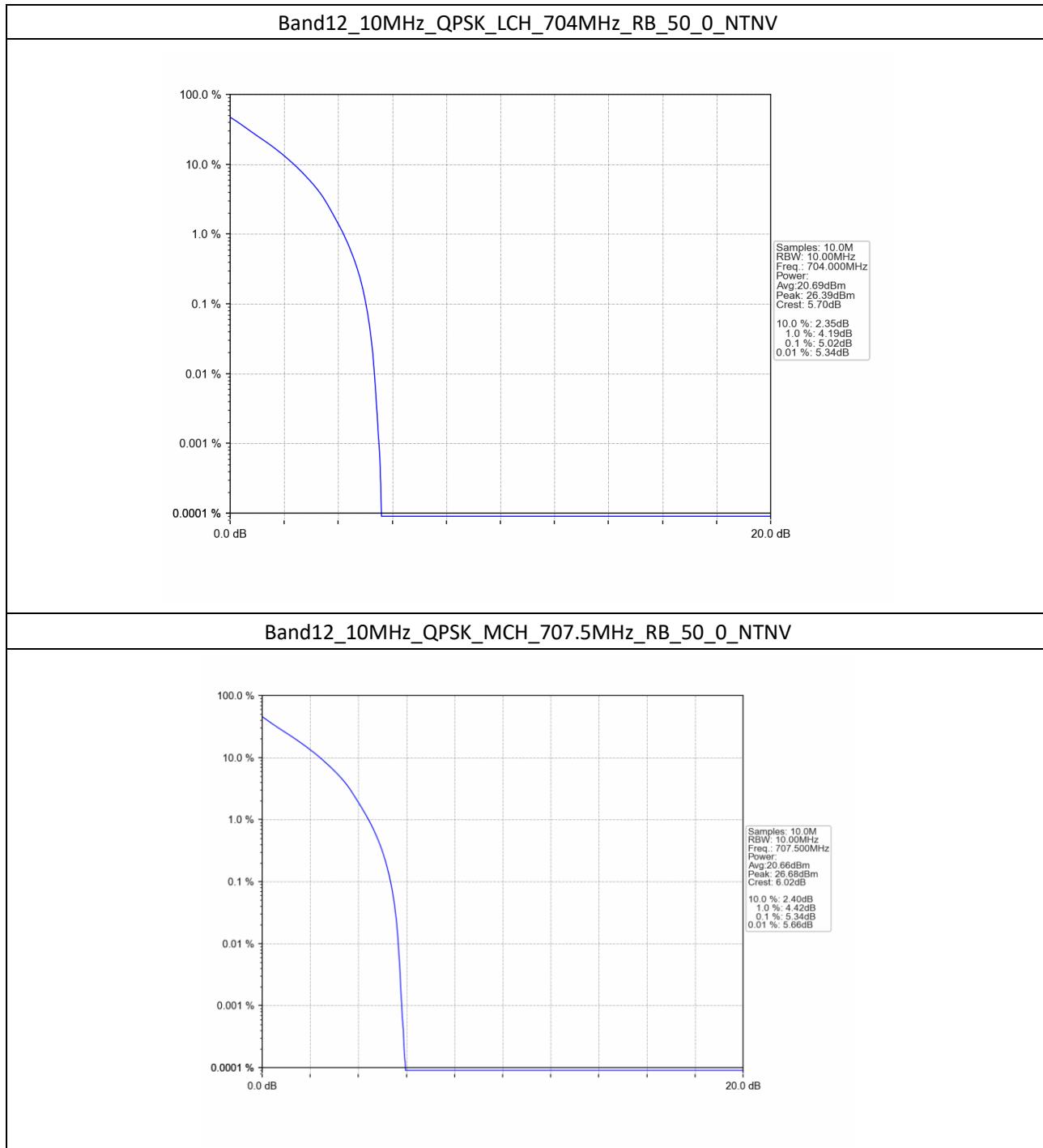


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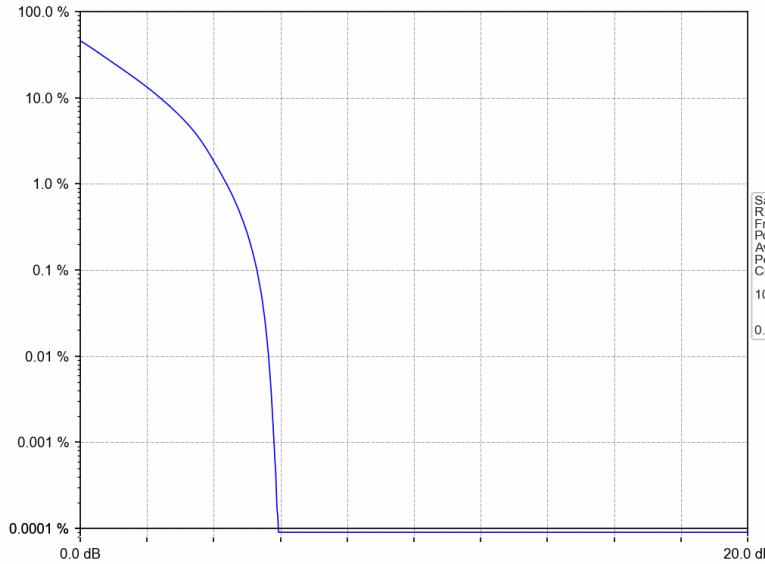
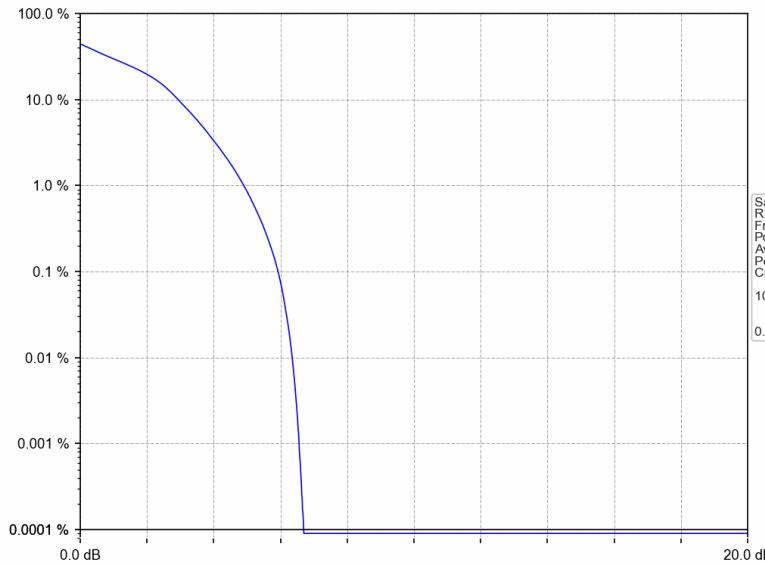
**4.2.4 B12\_10MHz**

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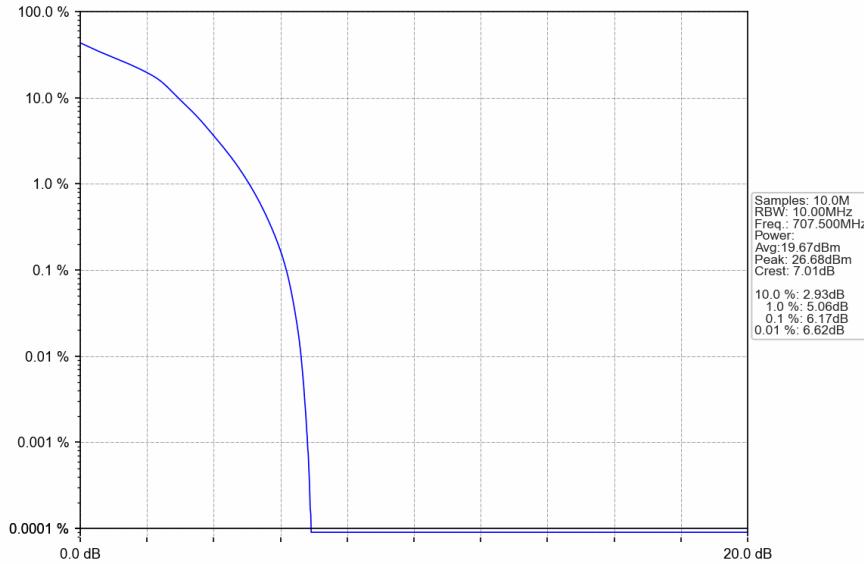
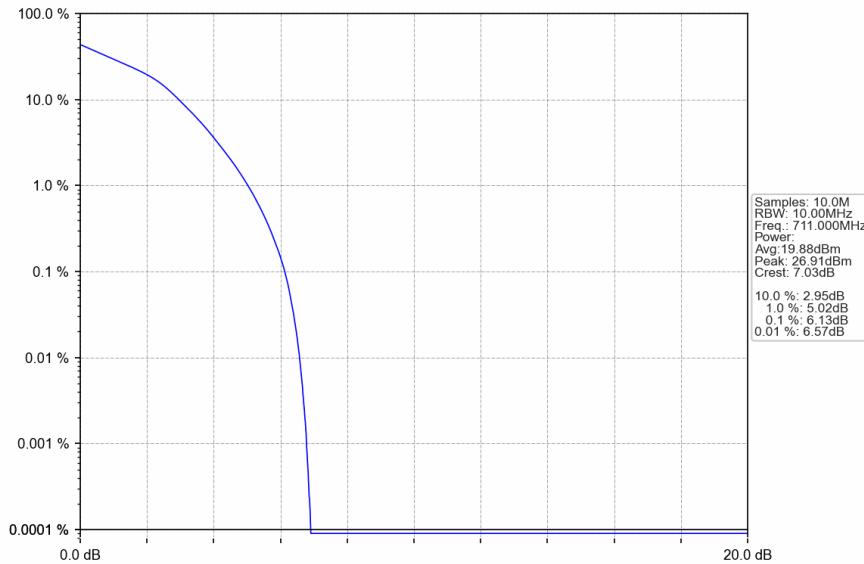


**Band12\_10MHz\_QPSK\_HCH\_711MHz\_RB\_50\_0\_NTNV****Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV**

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**Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_50\_0\_NTNV****Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV**

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## 5. Spurious Emission

### 5.1 Test Result

#### 5.1.1 B12\_1.4MHz

Band: 12 / Bandwidth: 1.4MHz / NTV							
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	
		6	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	
	715.3		5	Refer To Test Graph		Pass	
			6	Refer To Test Graph		Pass	

#### 5.1.2 B12\_3MHz

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

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		14	Refer To Test Graph	Pass
		15	0	Refer To Test Graph

### 5.1.3 B12\_5MHz

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

### 5.1.4 B12\_10MHz

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		Pass
		50	0	Refer To Test Graph		Pass
	707.5	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
16QAM	704	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	707.5	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

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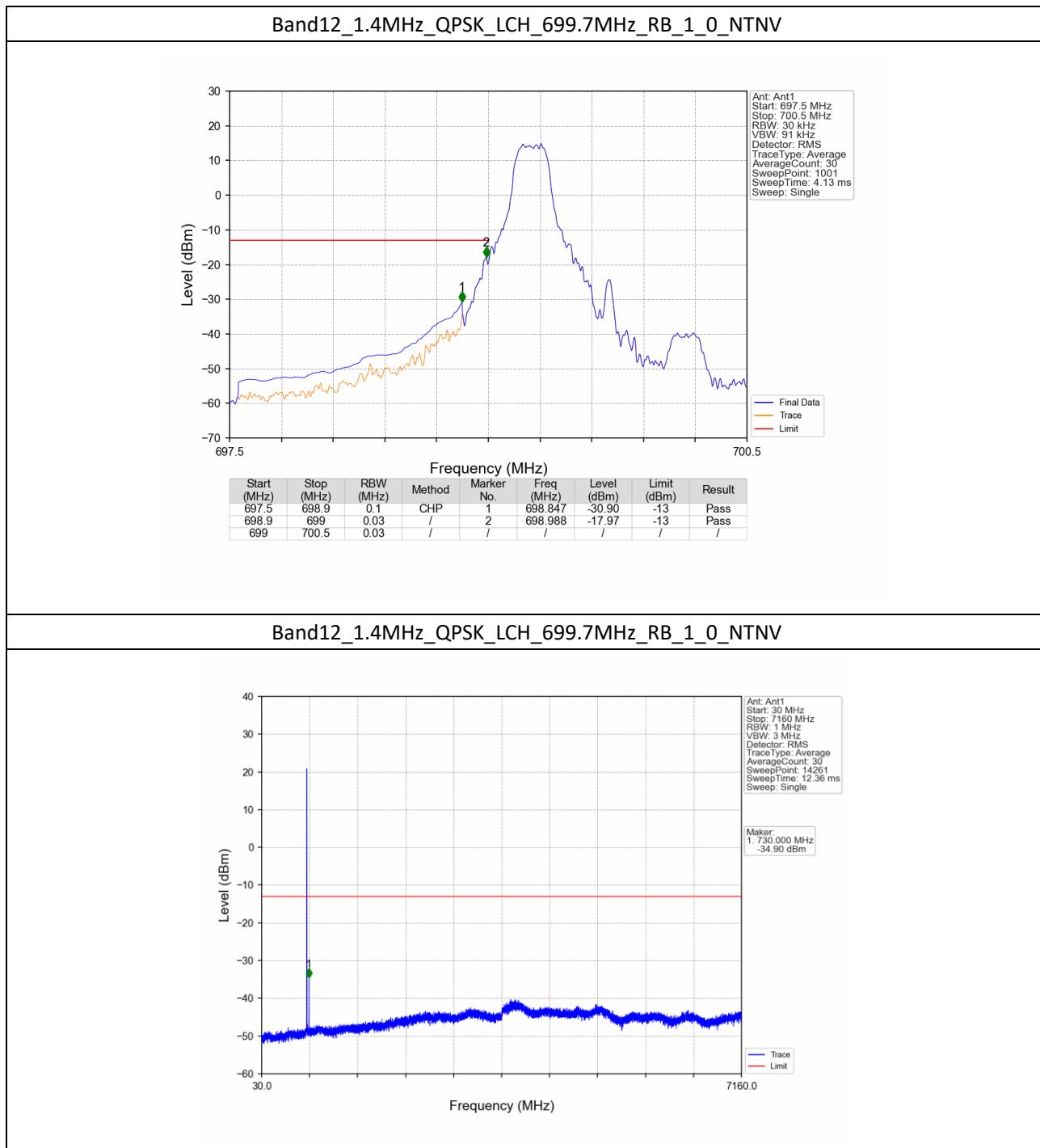


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## 5.2 Test Graph

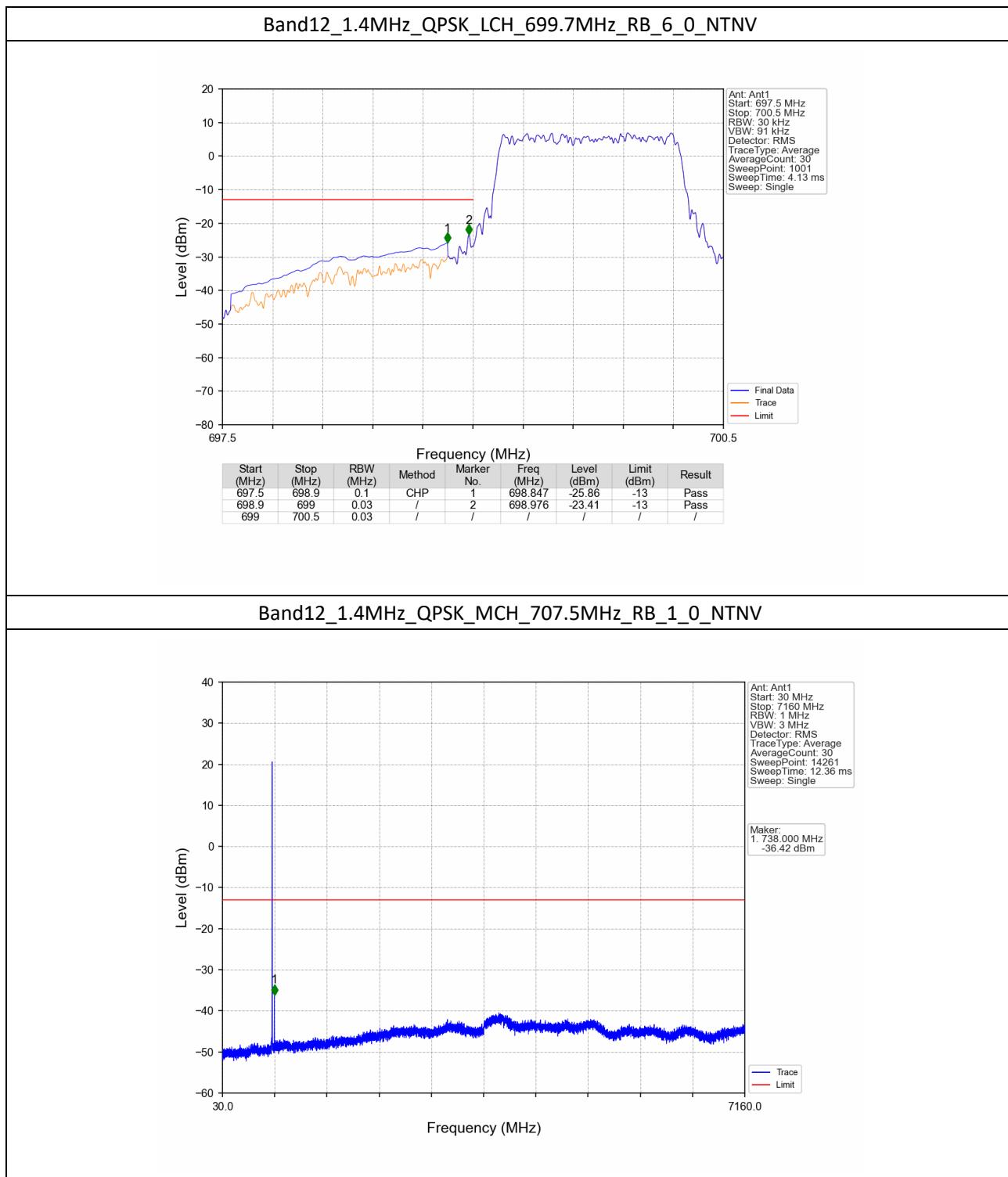
## 5.2.1 B12\_1.4MHz



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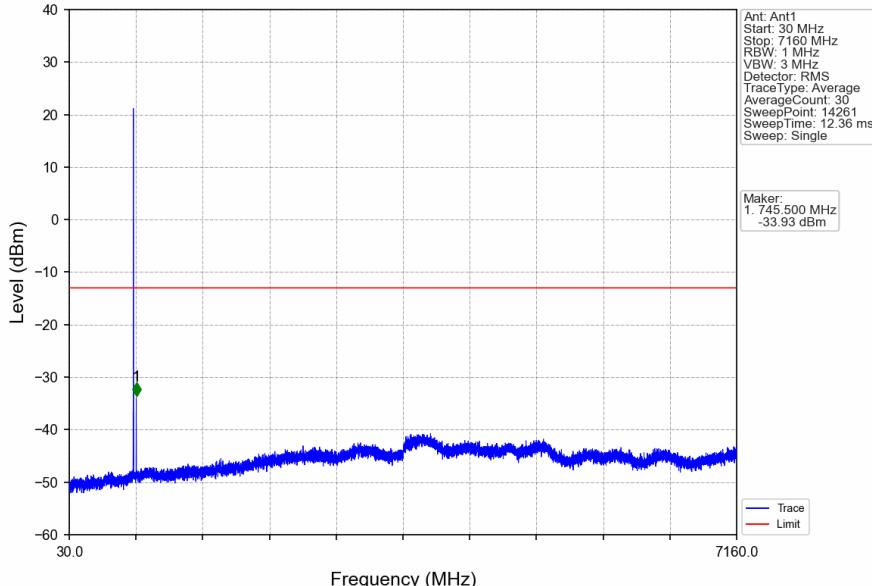
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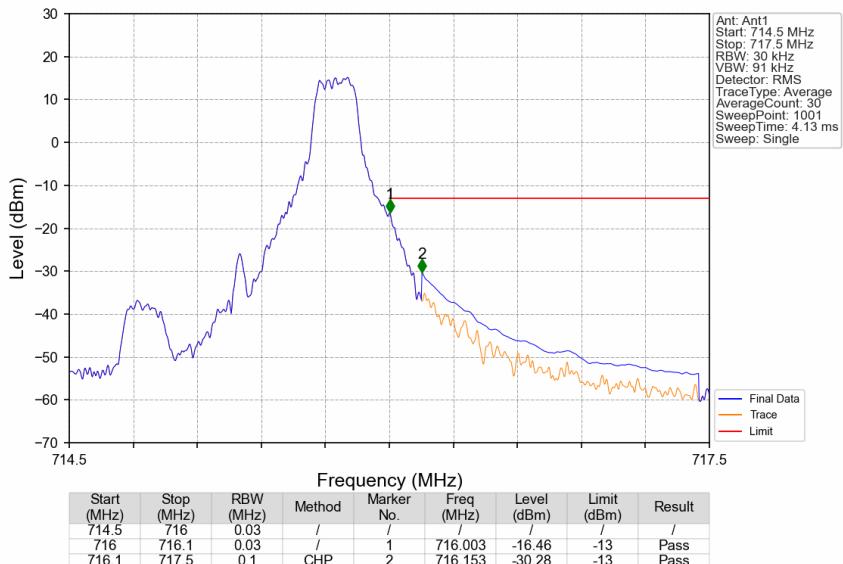
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## Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_1\_0\_NTNV



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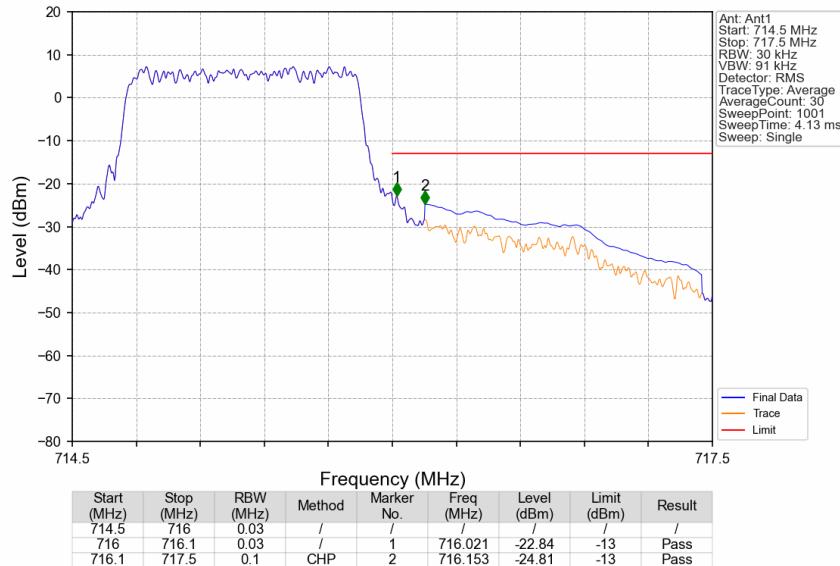


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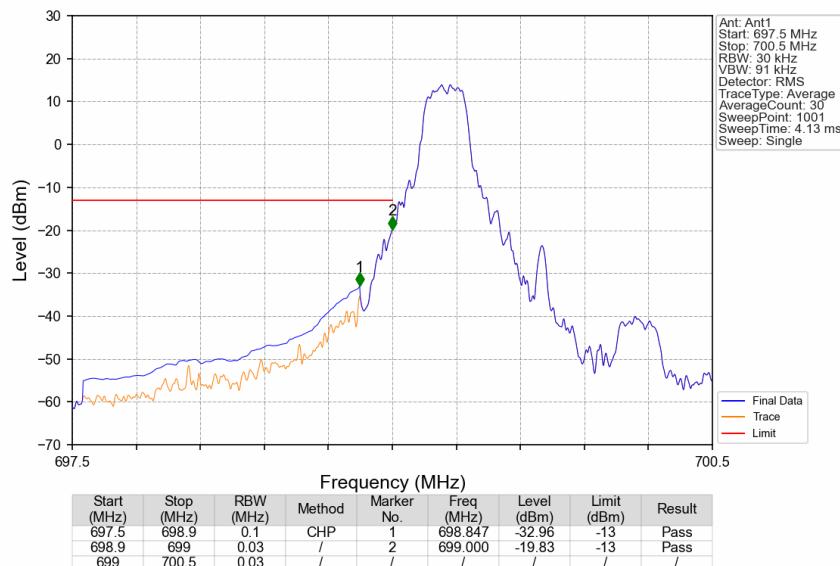
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## Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_6\_0\_NTNV



## Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_1\_0\_NTNV

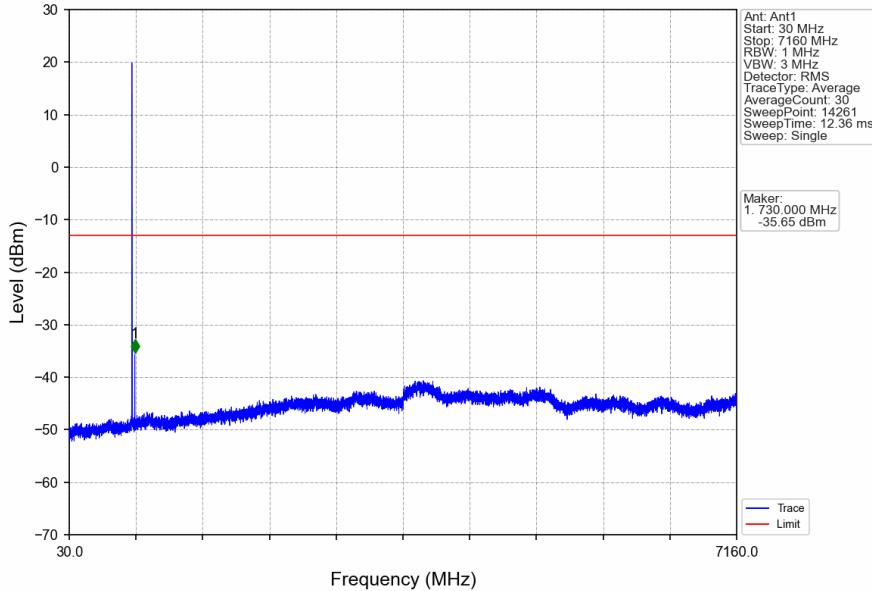


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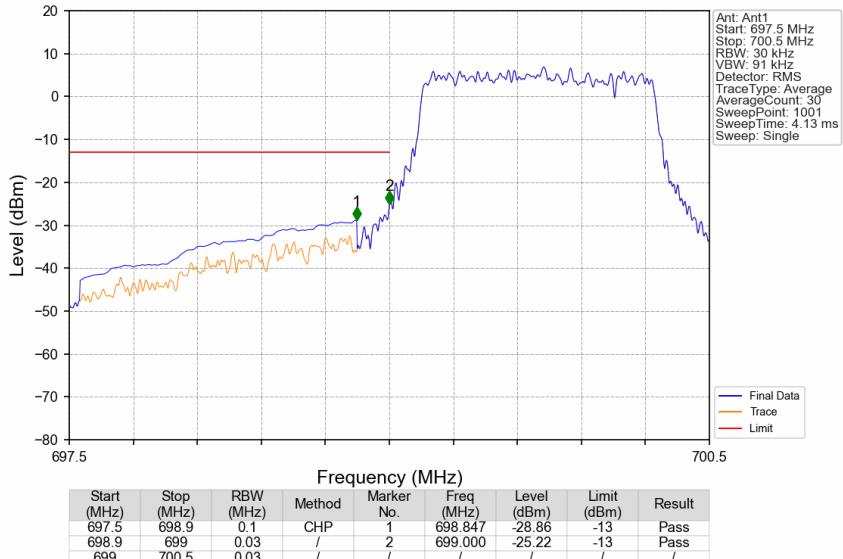
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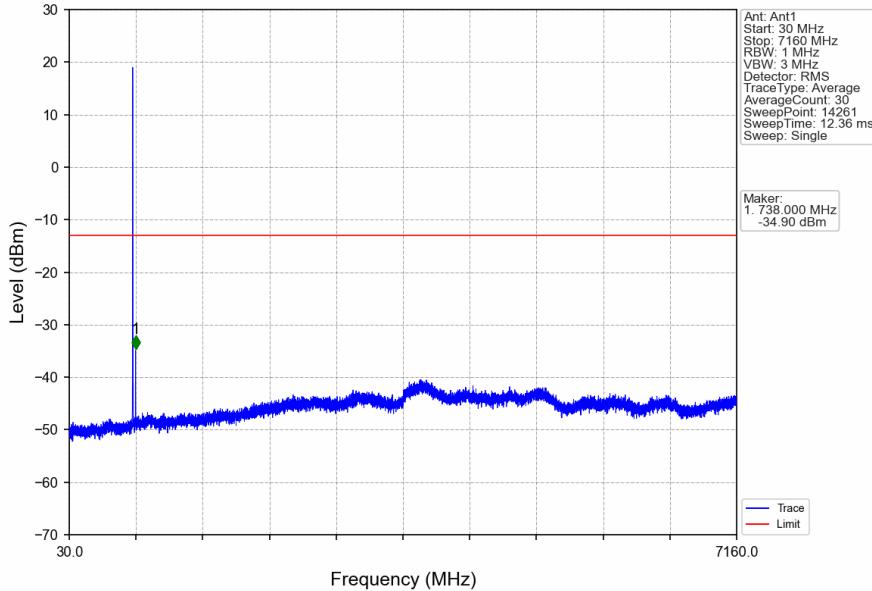
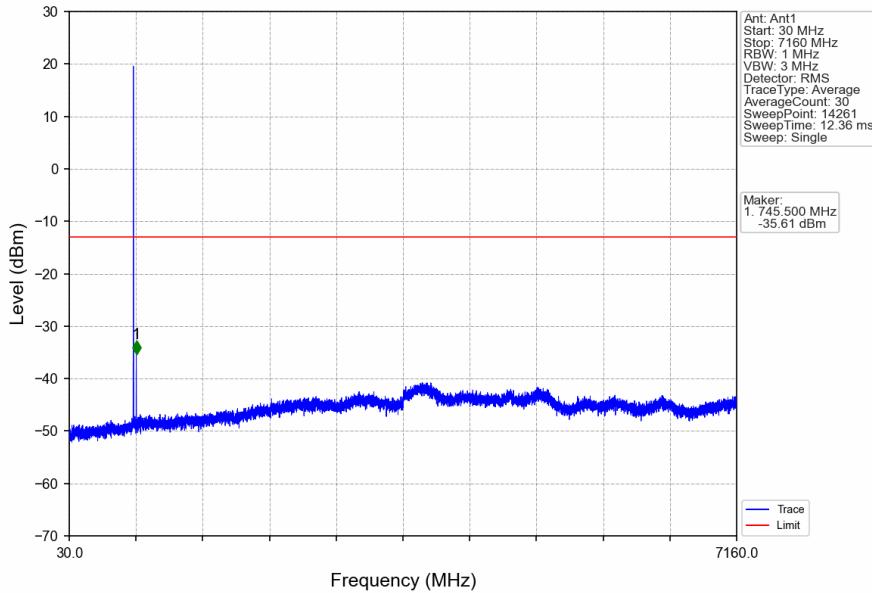
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**Band12\_1.4MHz\_16QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV****Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_1\_0\_NTNV**

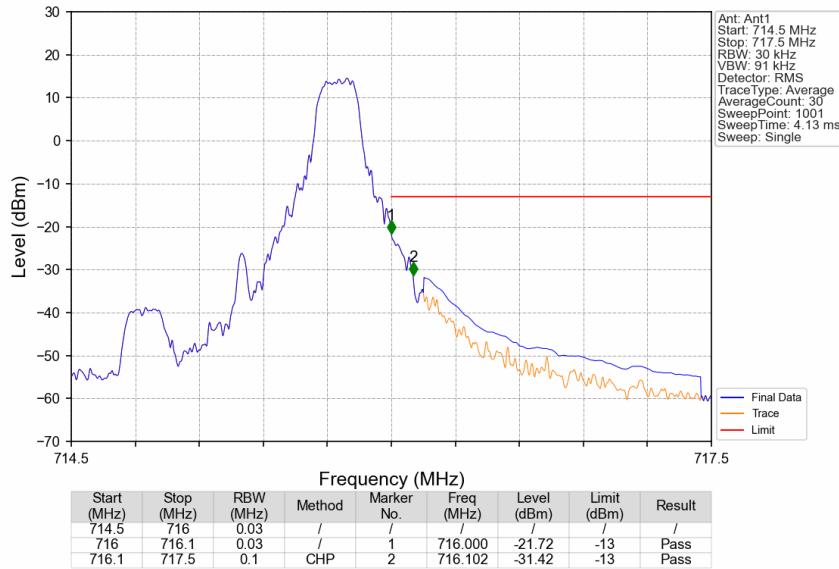
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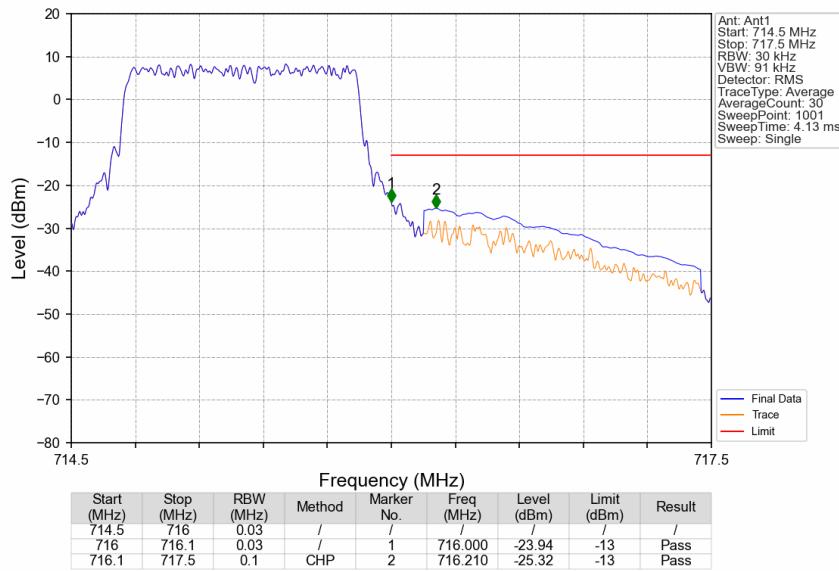
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## Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_1\_5\_NTNV



## Band12\_1.4MHz\_16QAM\_HCH\_715.3MHz\_RB\_6\_0\_NTNV

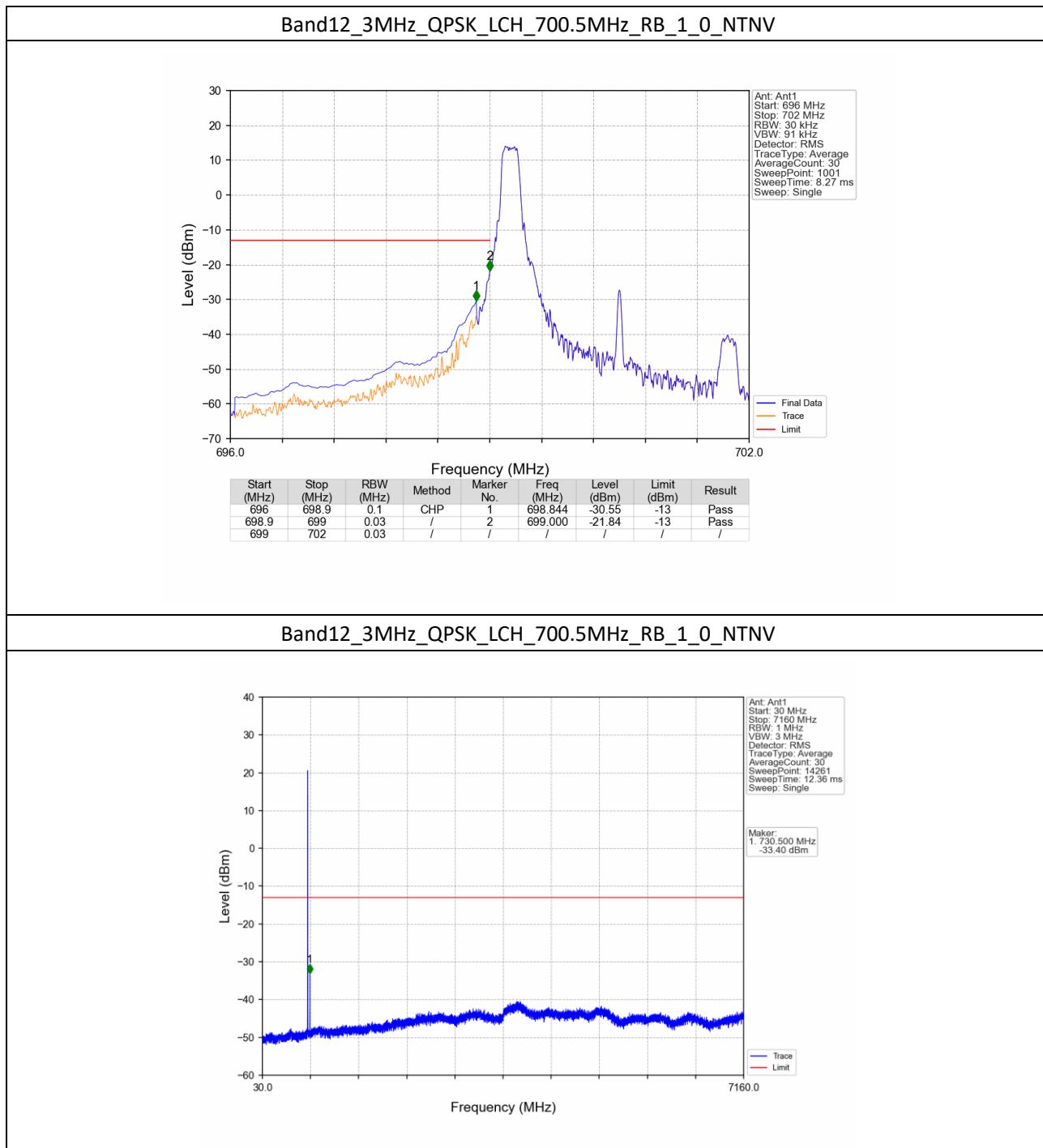


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## 5.2.2 B12\_3MHz

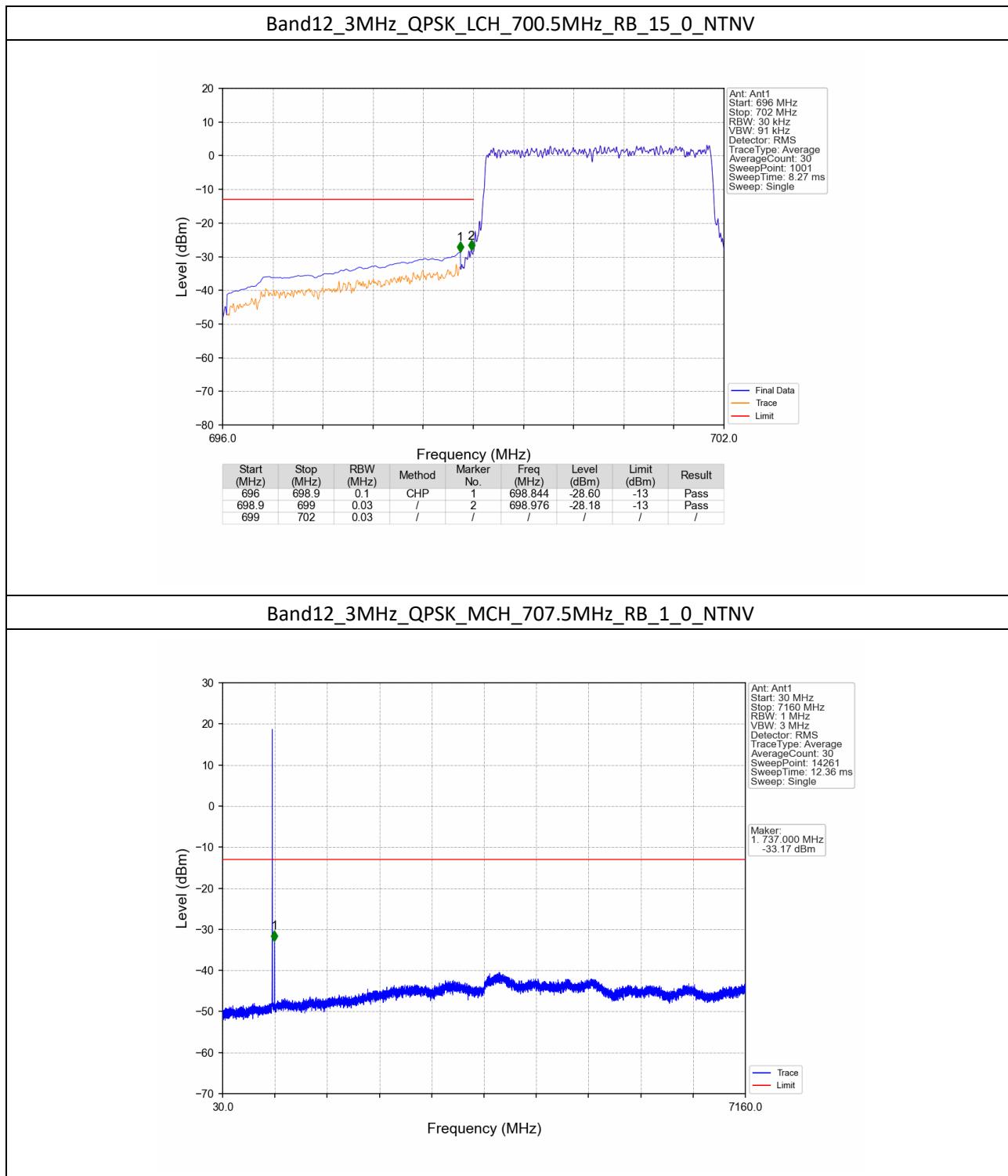


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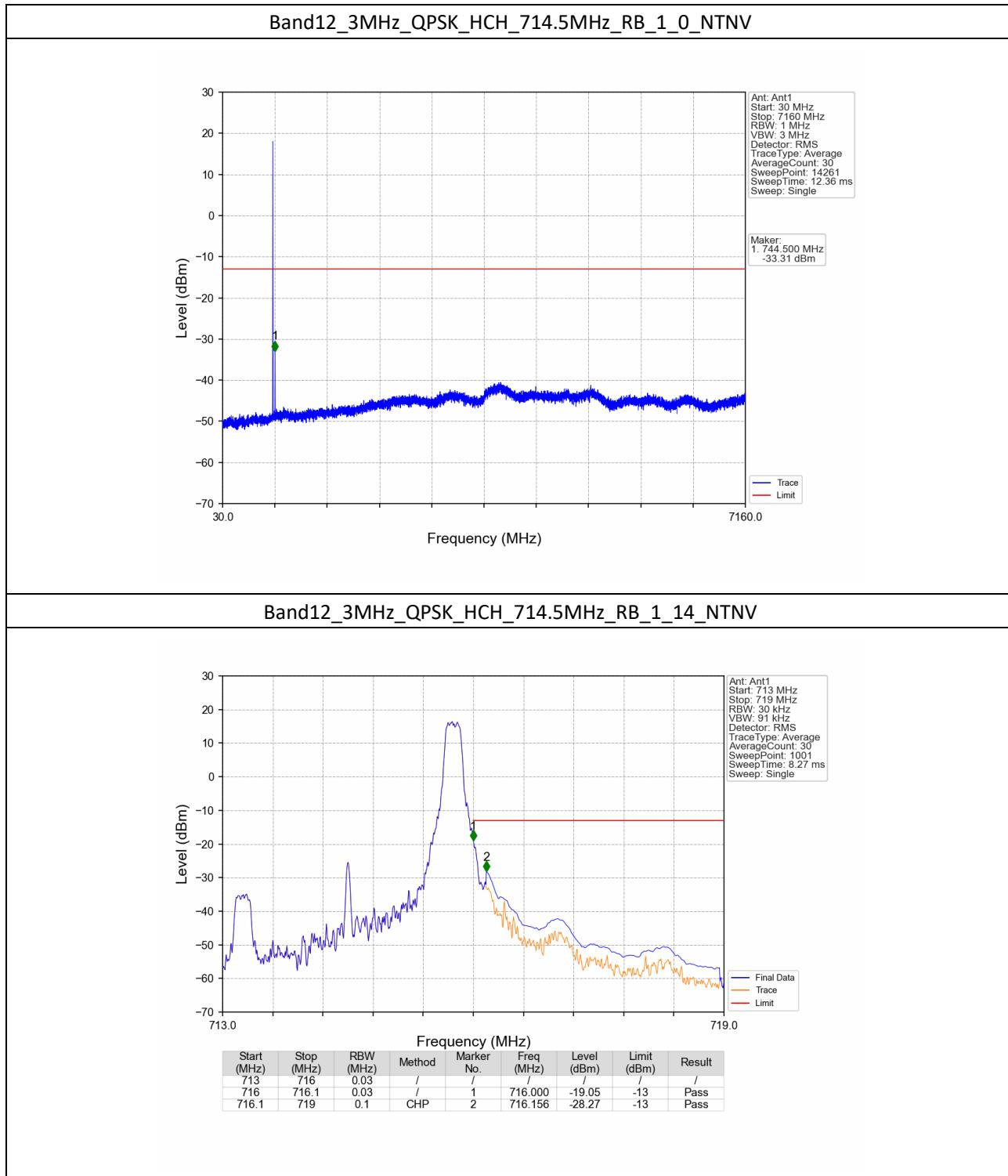
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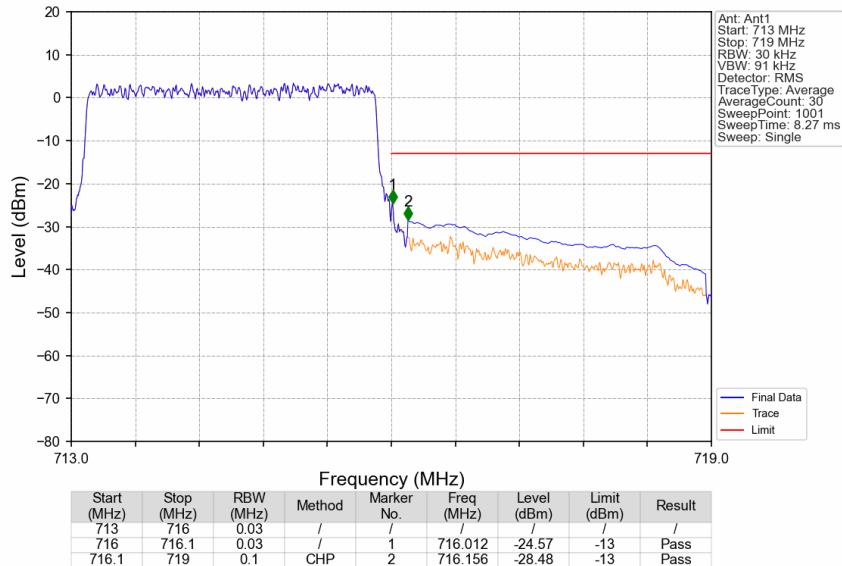


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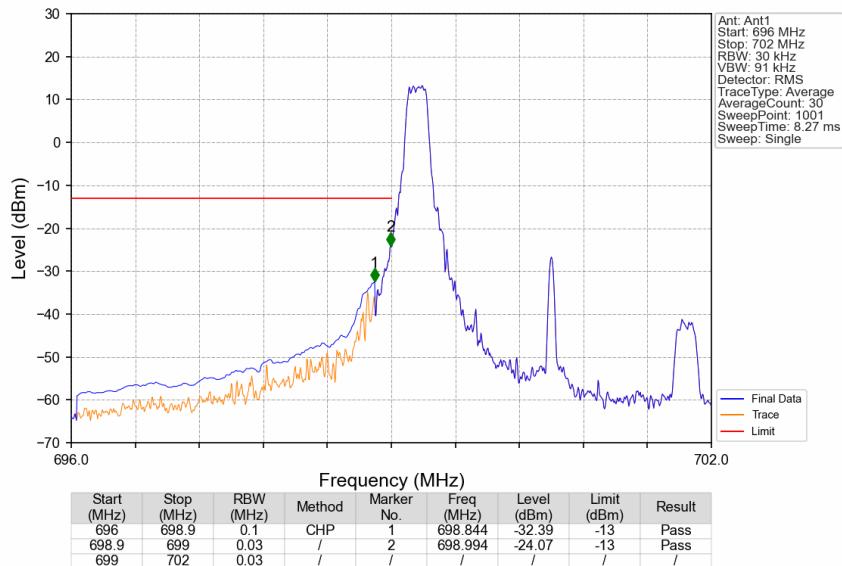
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## Band12\_3MHz\_QPSK\_HCH\_714.5MHz\_RB\_15\_0\_NTNV



## Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_1\_0\_NTNV



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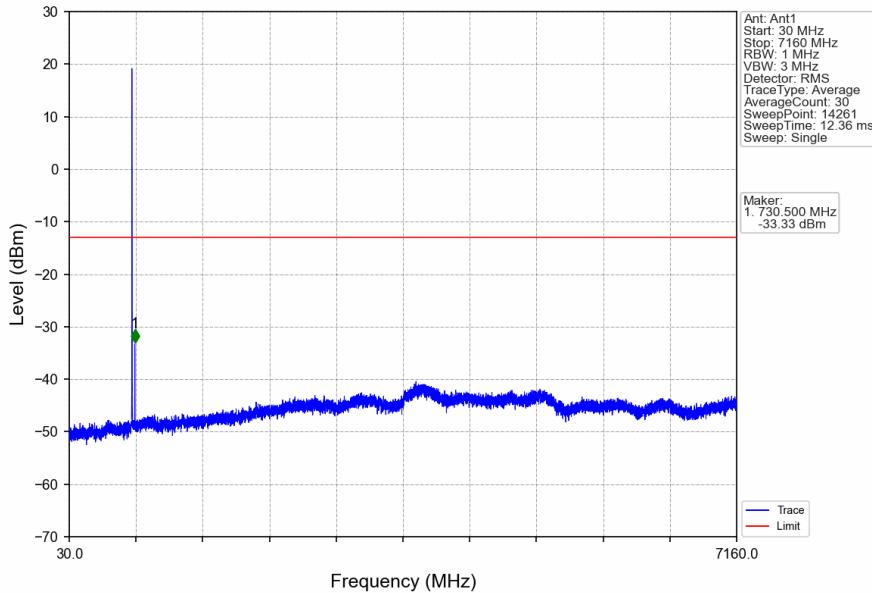
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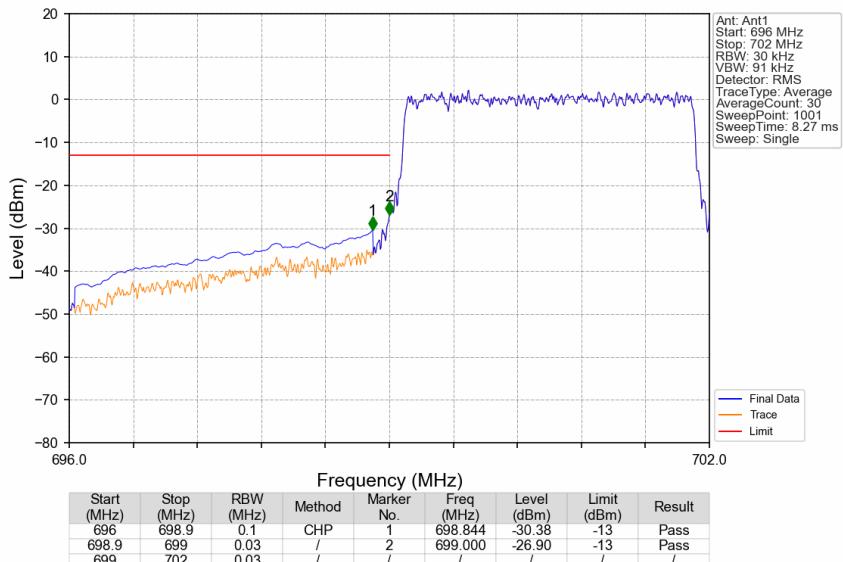
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## Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_1\_0\_NTNV



## Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_15\_0\_NTNV

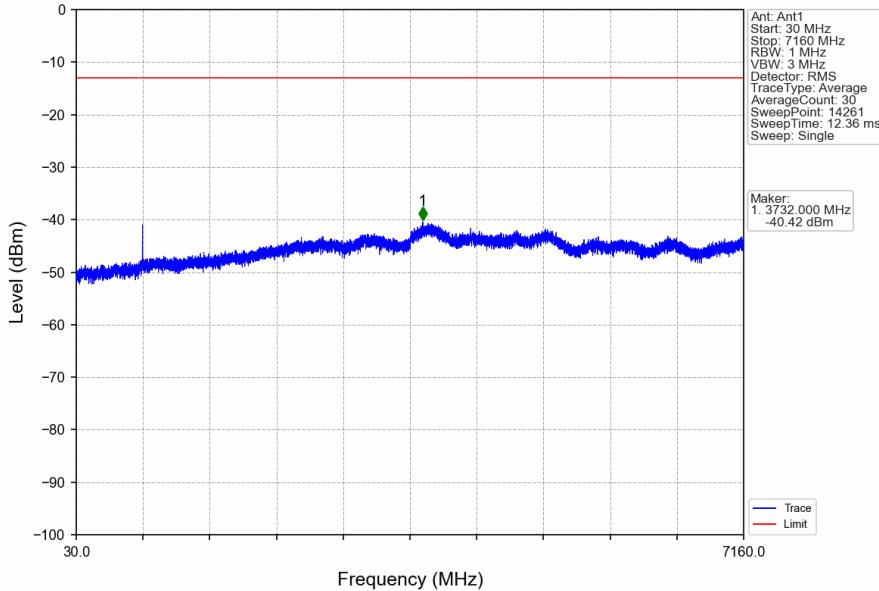


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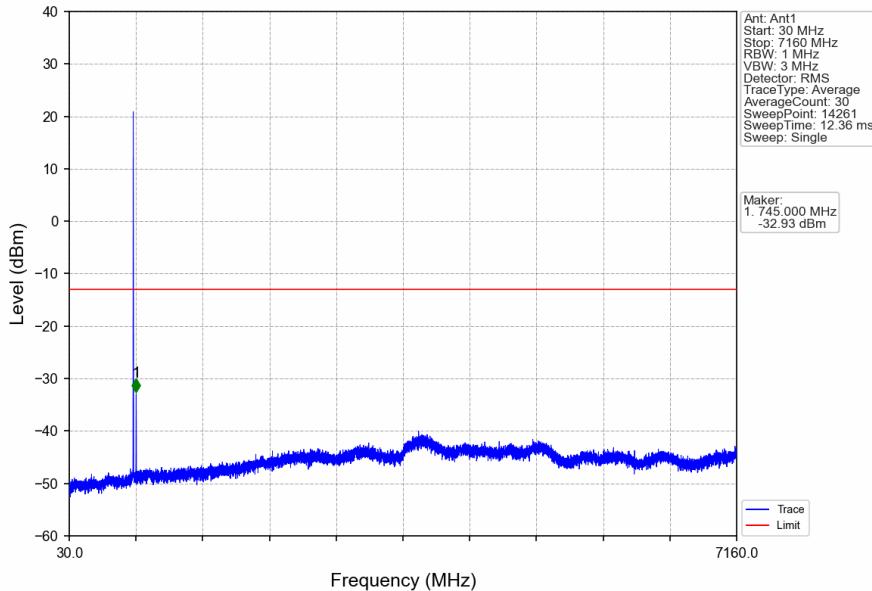
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## Band12\_3MHz\_16QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



## Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_1\_0\_NTNV



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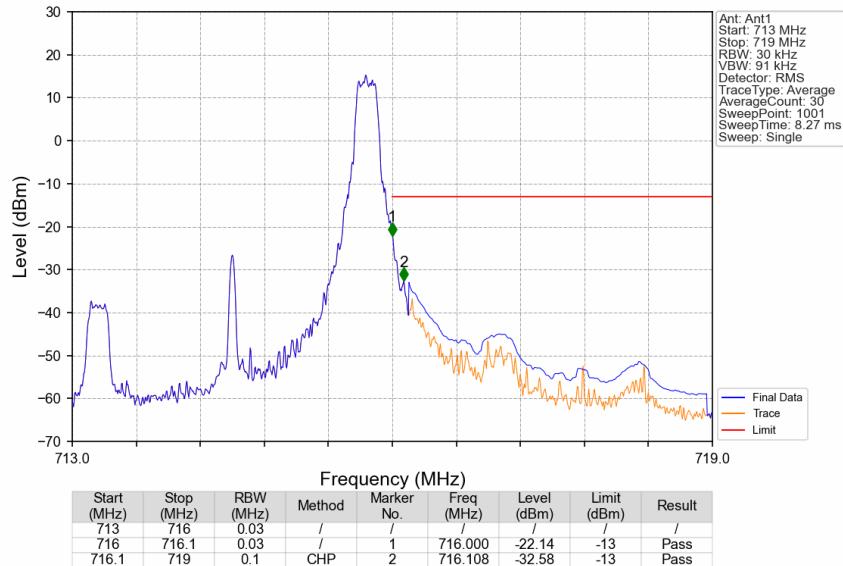
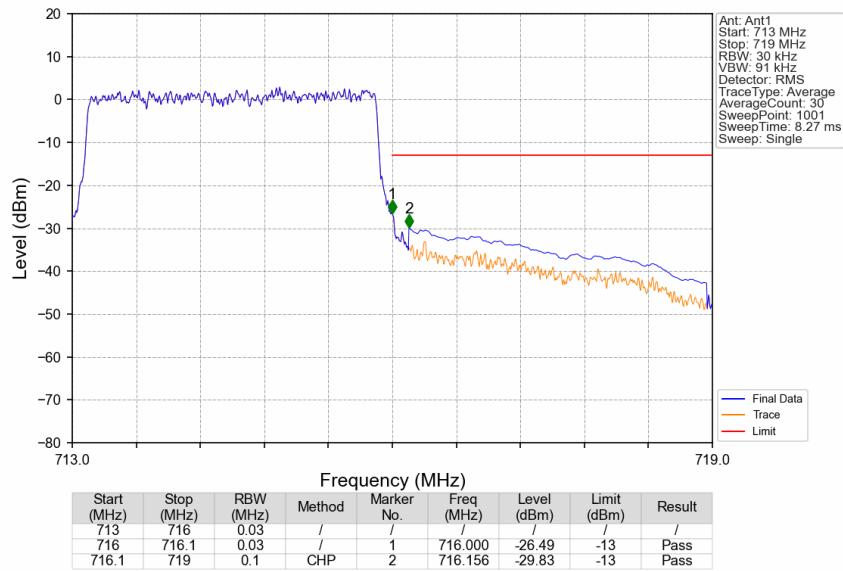
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**Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_1\_14\_NTNV****Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV**

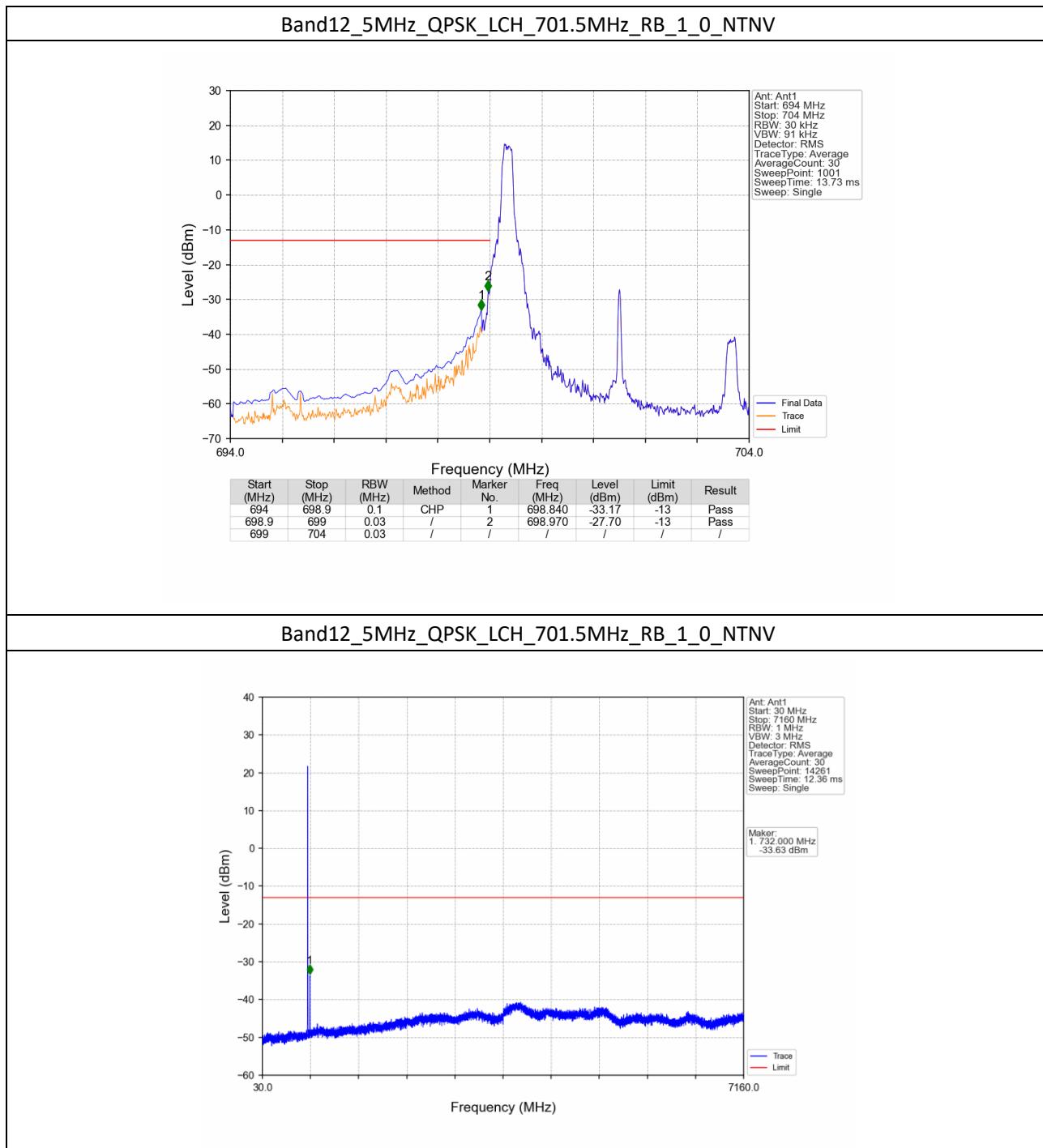
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## 5.2.3 B12\_5MHz



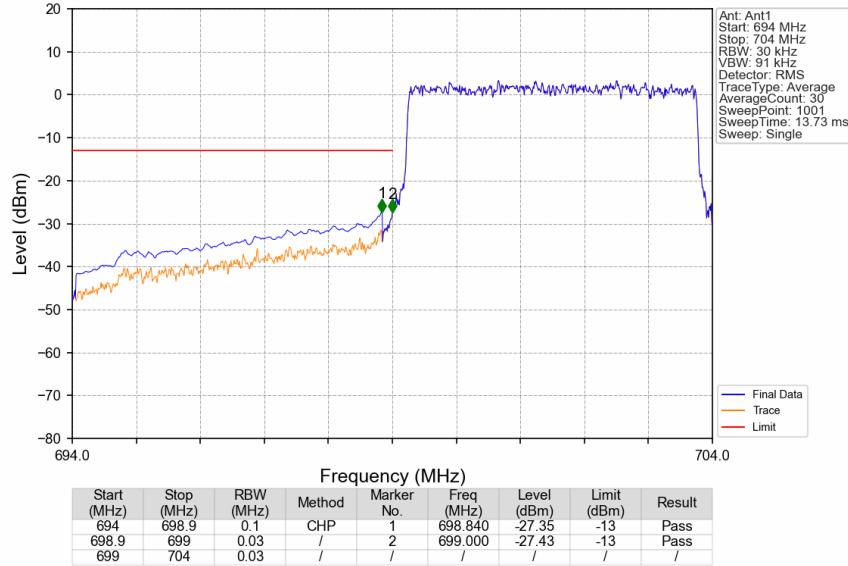
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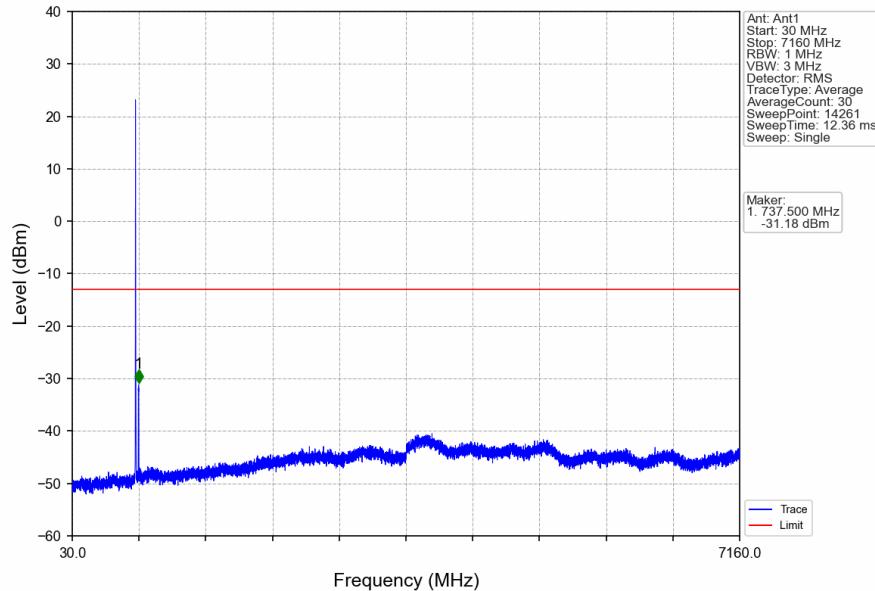


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## Band12\_5MHz\_QPSK\_LCH\_701.5MHz\_RB\_25\_0\_NTNV



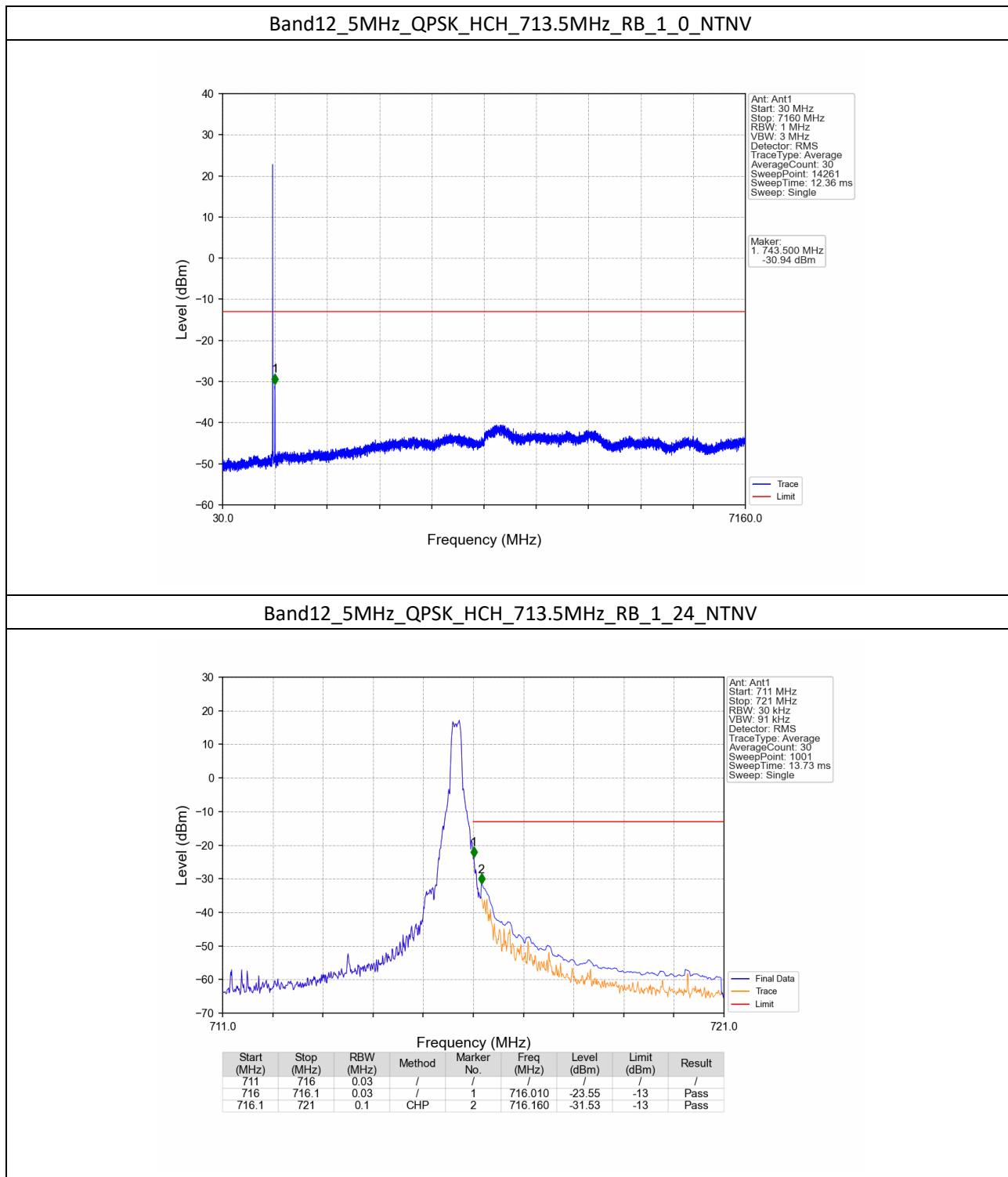
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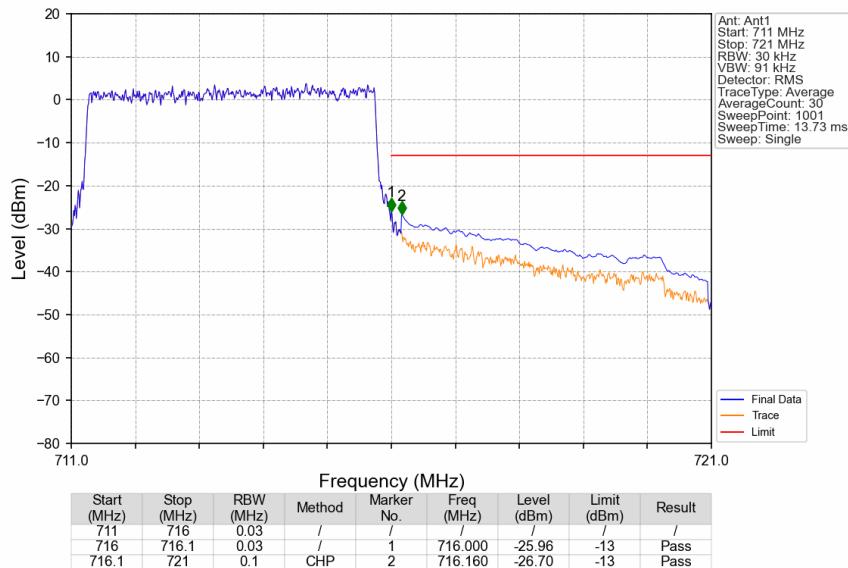


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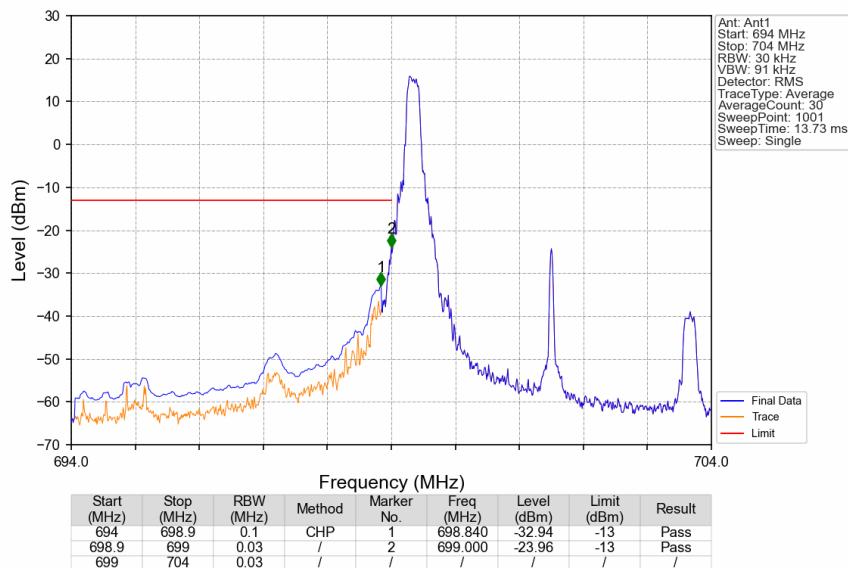
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## Band12\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



## Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_1\_0\_NTNV



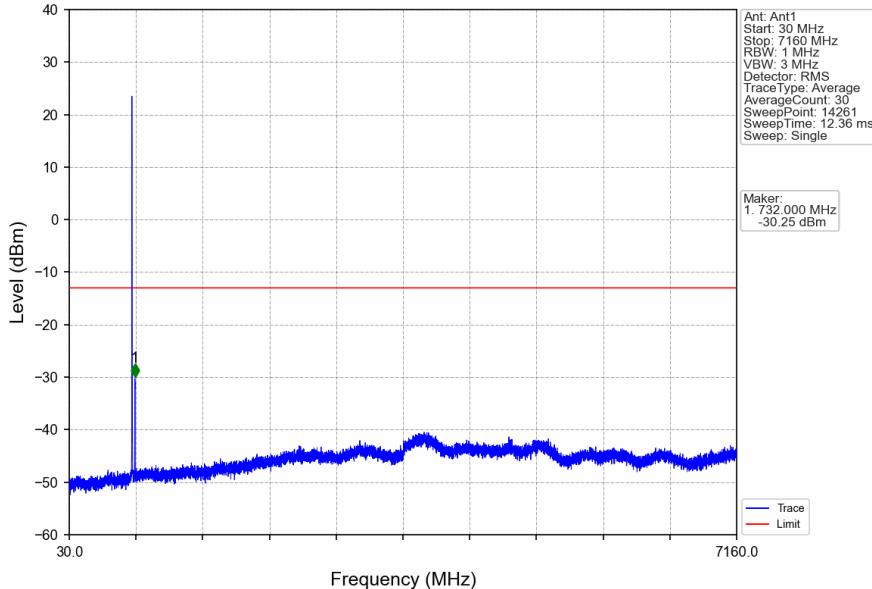
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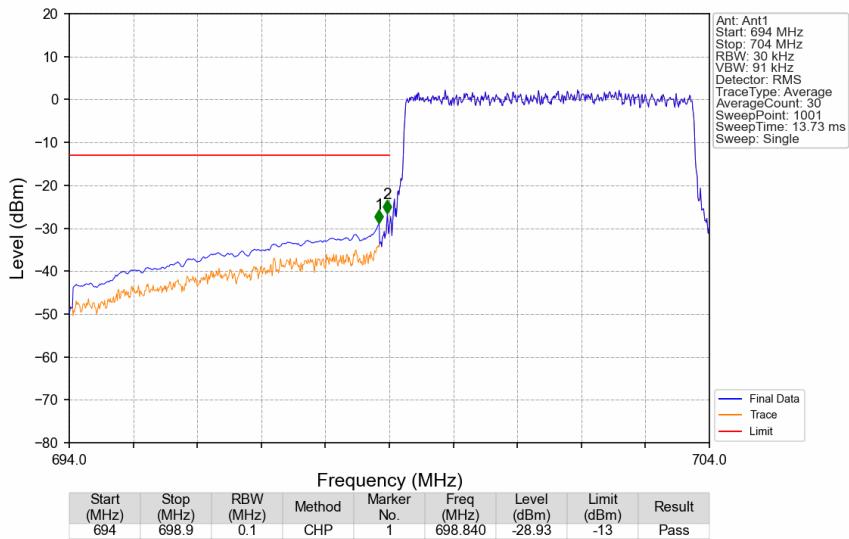
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## Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_1\_0\_NTNV



## 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	698.840	-28.93	-13	Pass
698.9	699	0.03	/	2	698.970	-26.50	-13	Pass
699	704	0.03	/	/	/	/	/	/

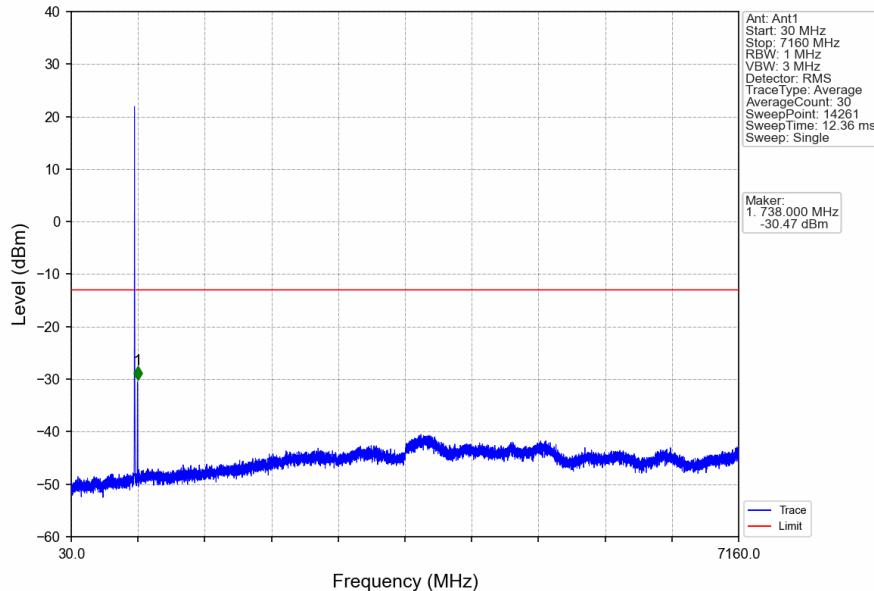


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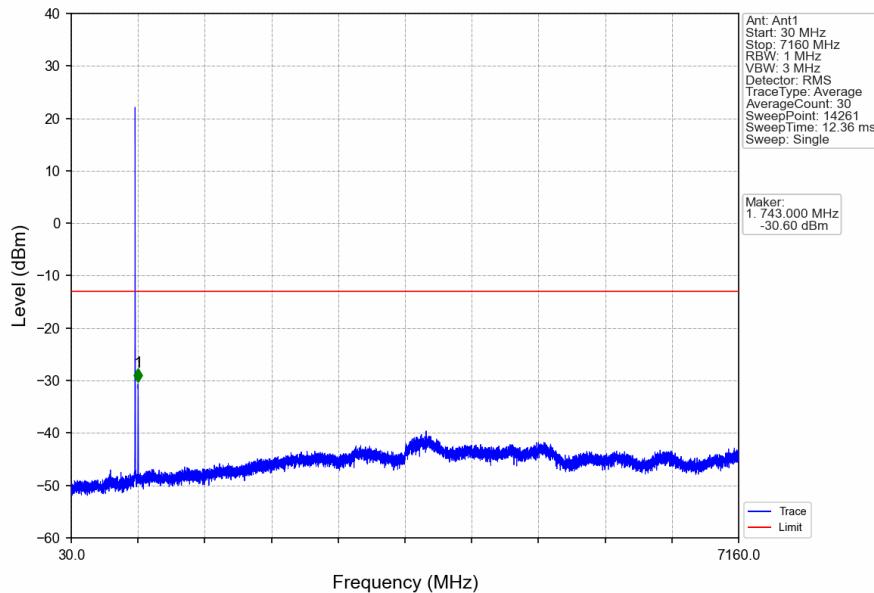
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## Band12\_5MHz\_16QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



## Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_1\_0\_NTNV

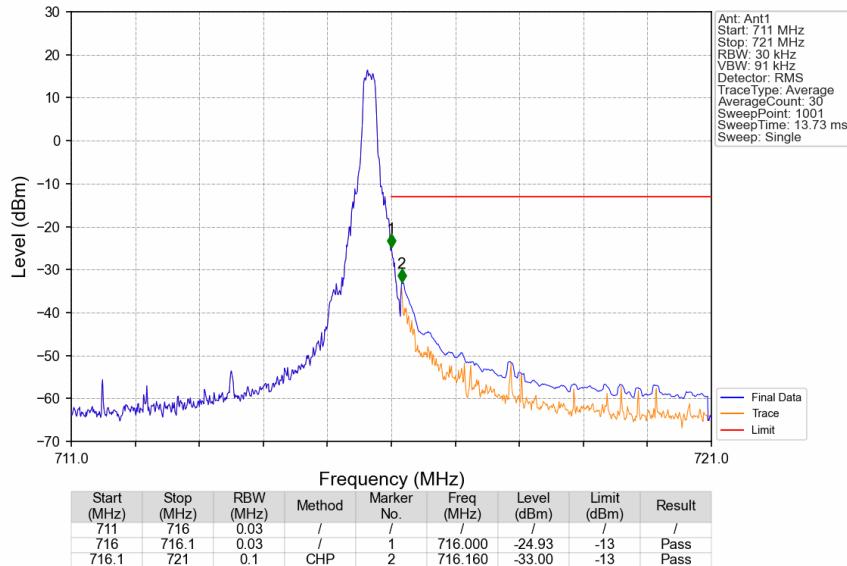


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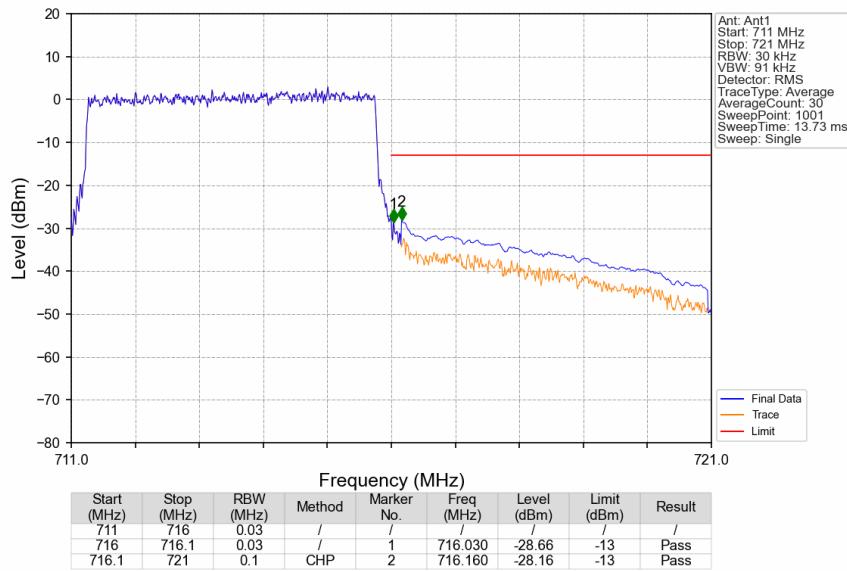
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## Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_1\_24\_NTNV



## Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV

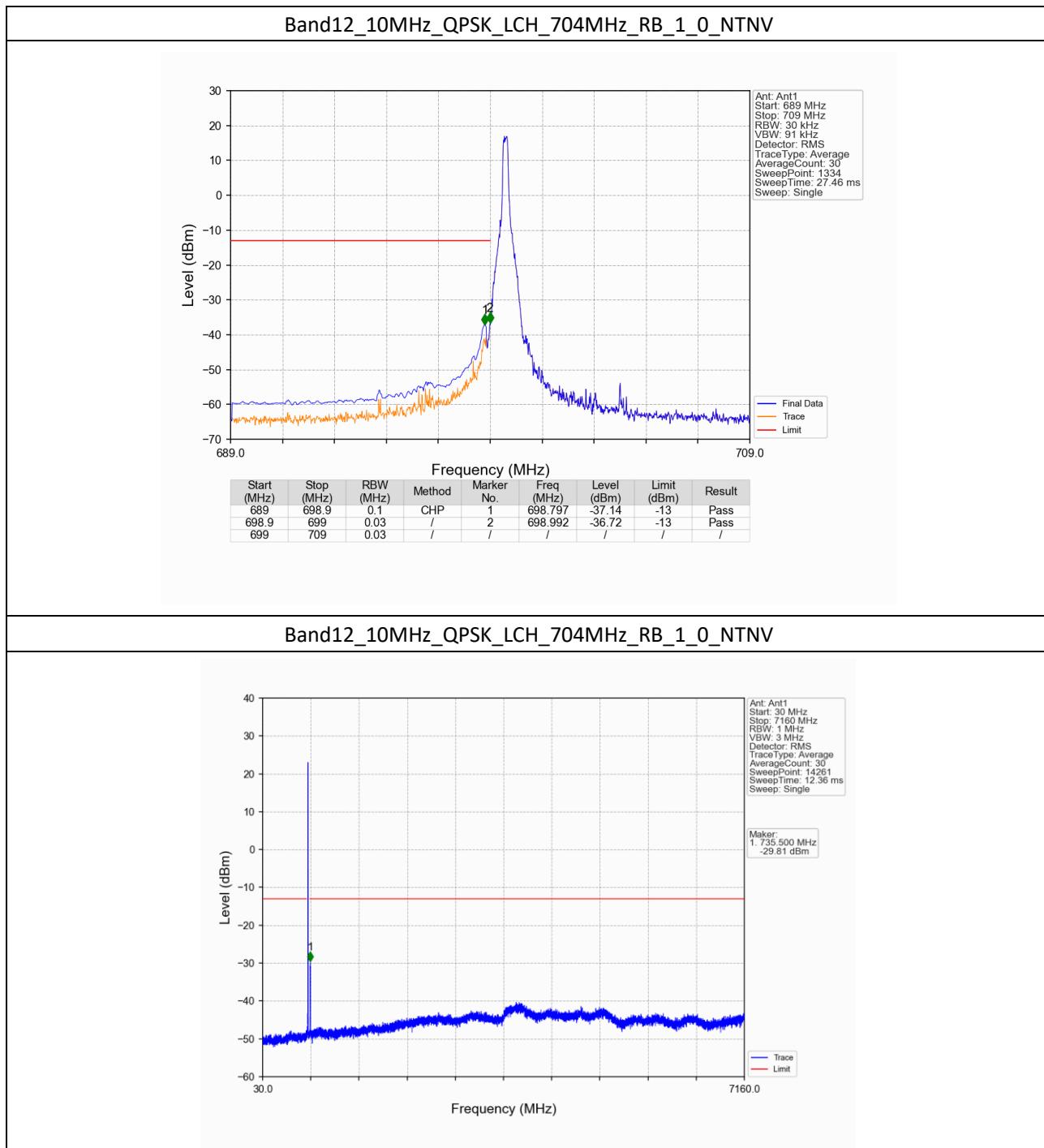


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## 5.2.4 B12\_10MHz



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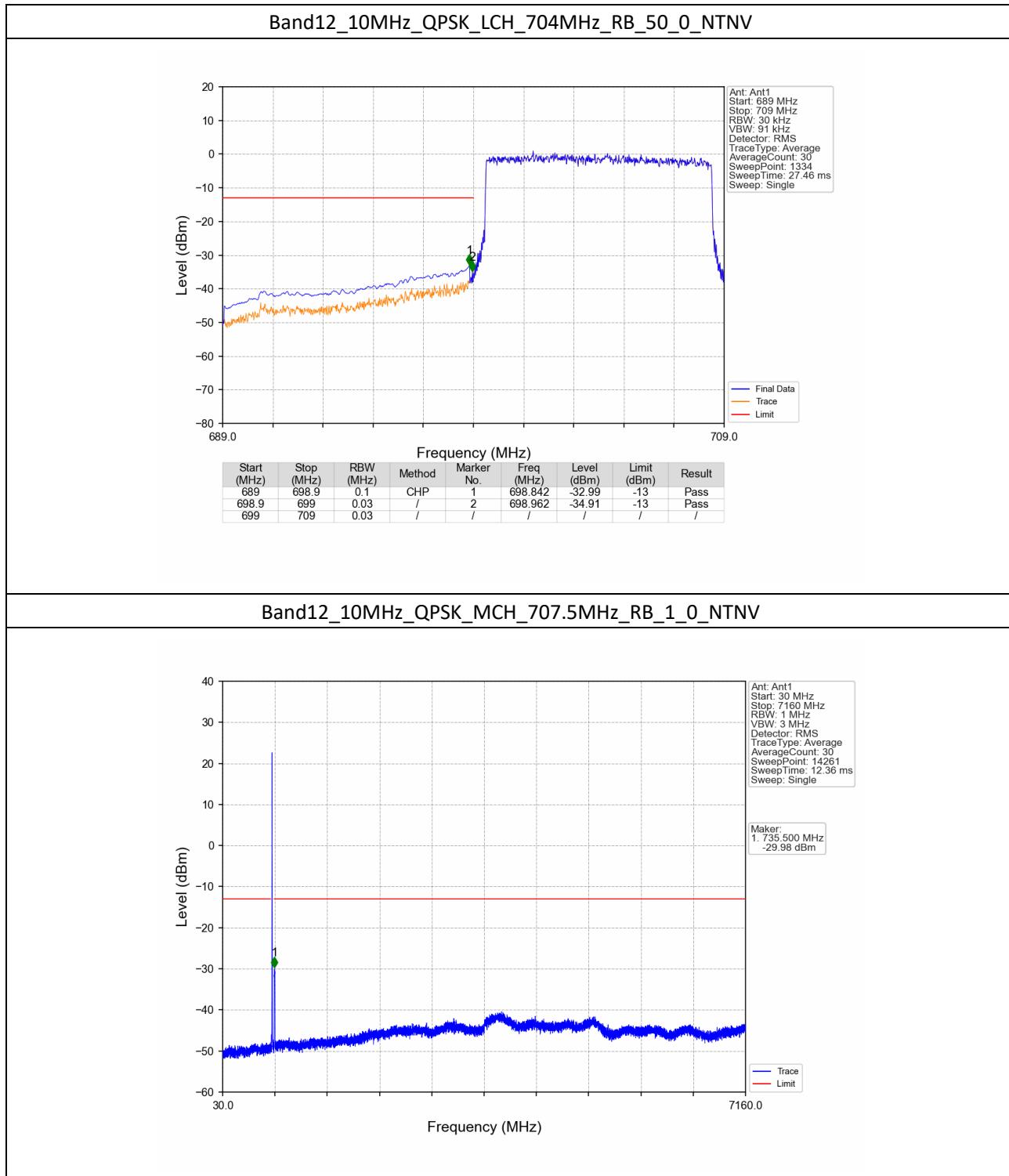


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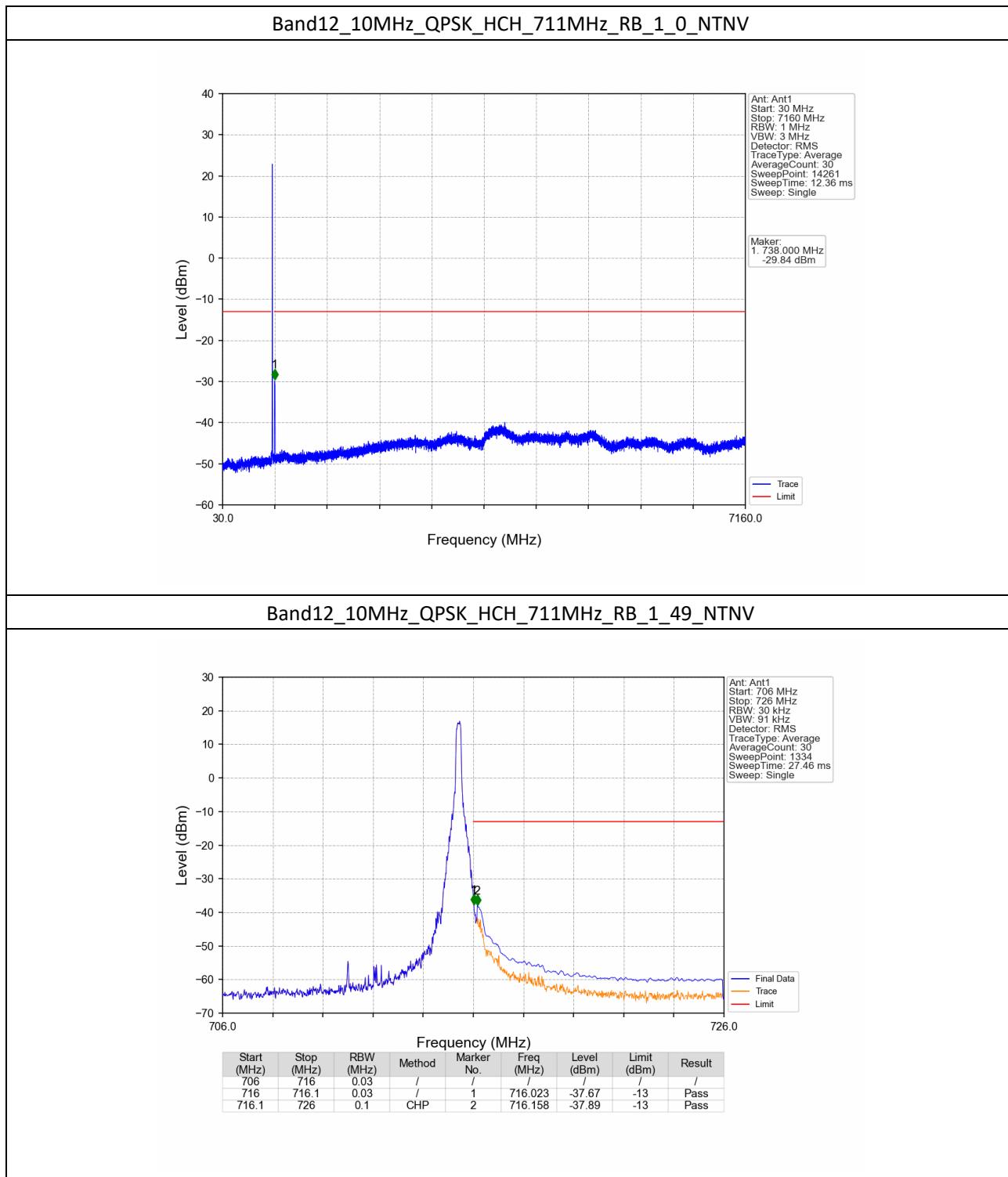
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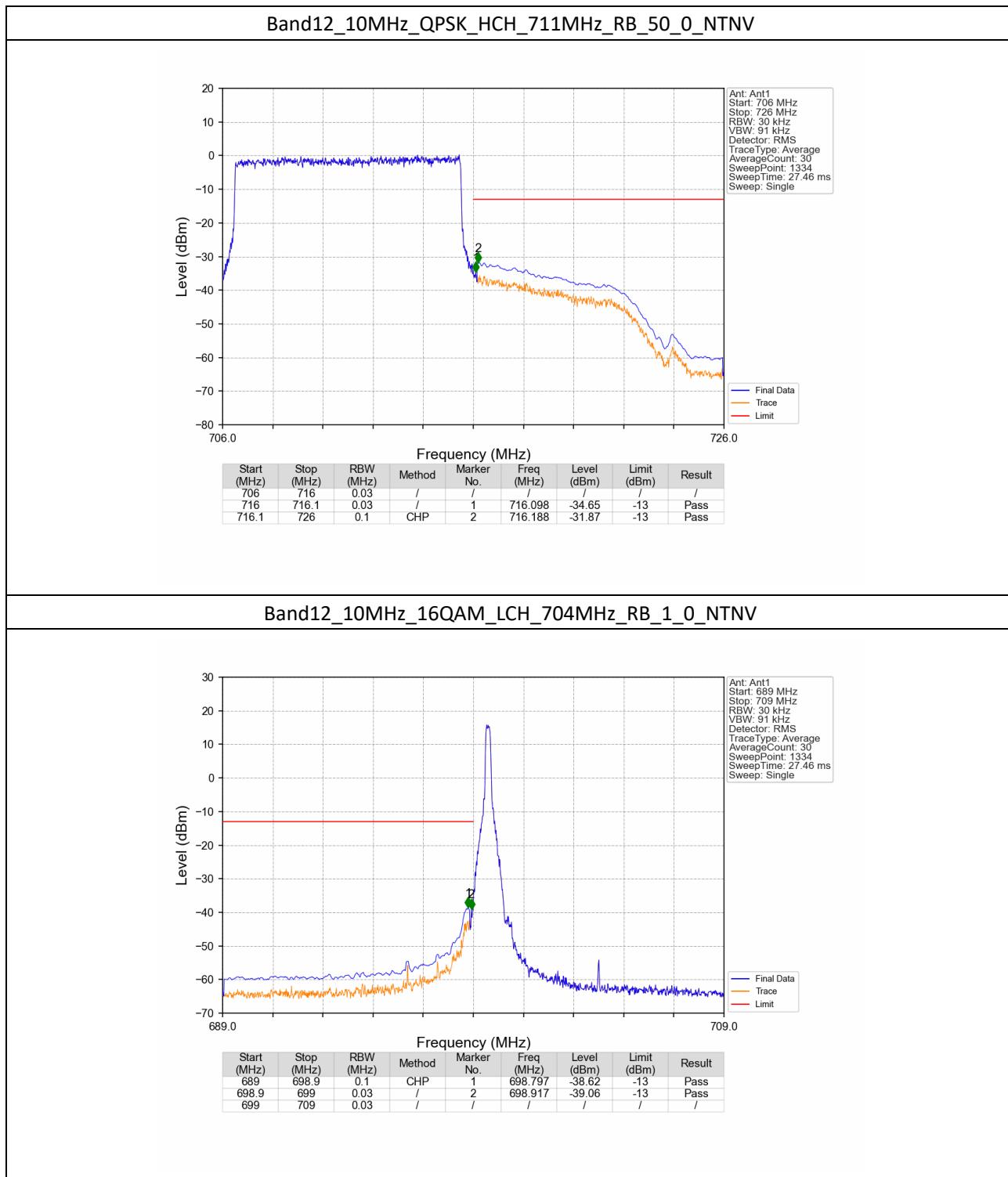


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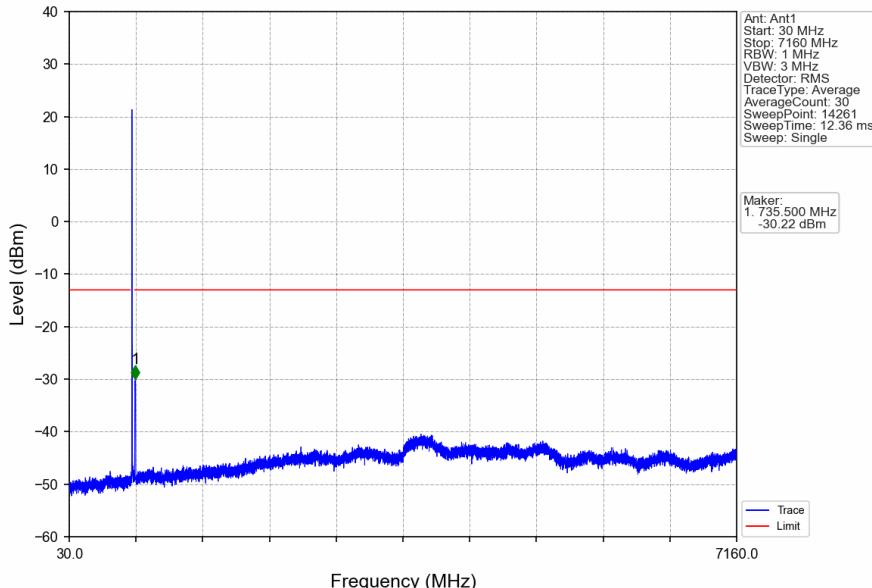


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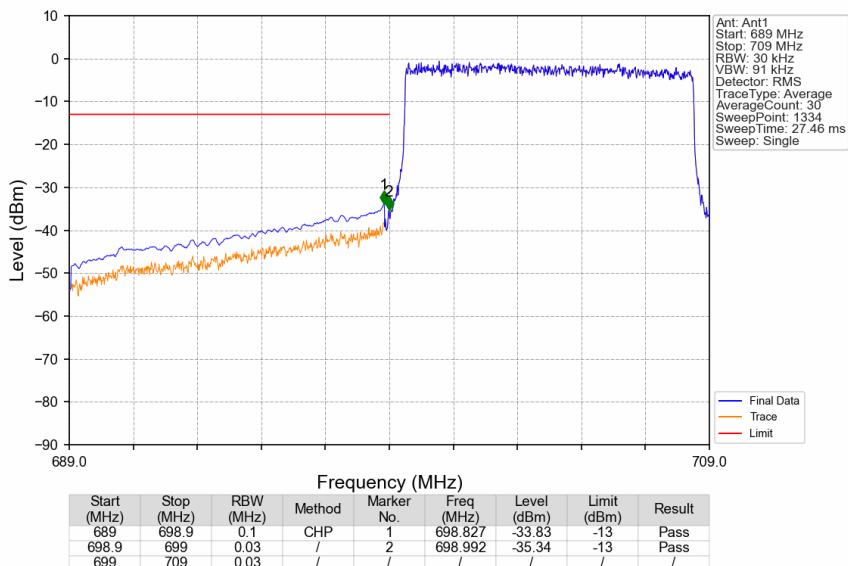
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## Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_1\_0\_NTNV



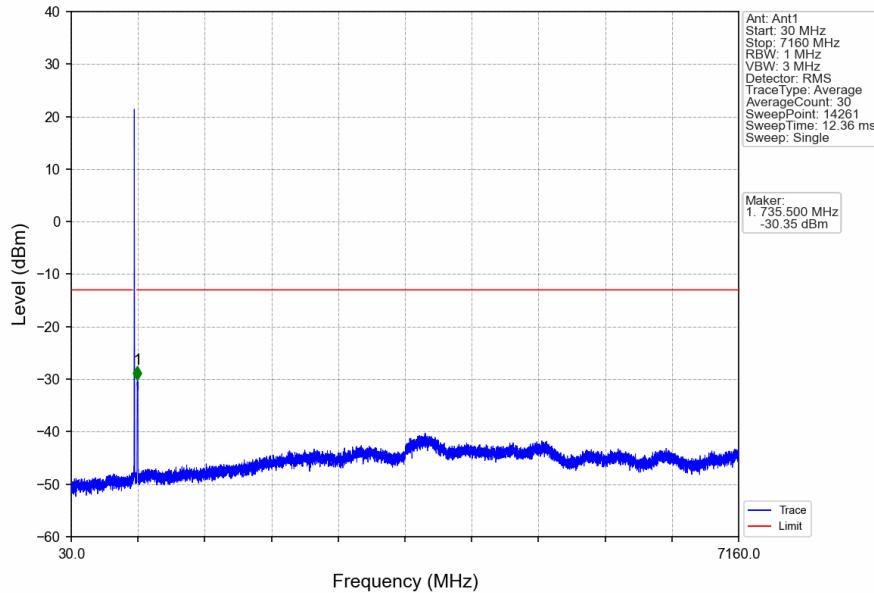
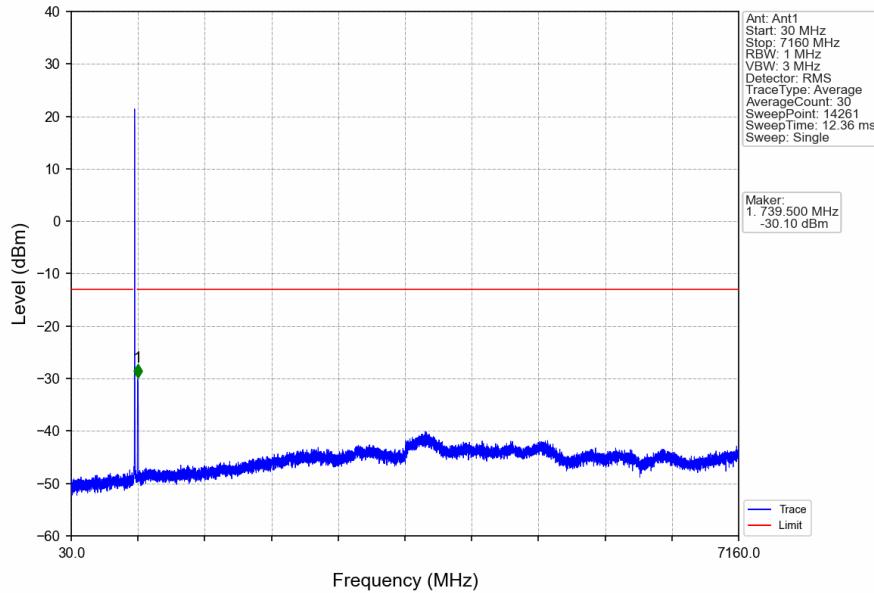
## Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_50\_0\_NTNV



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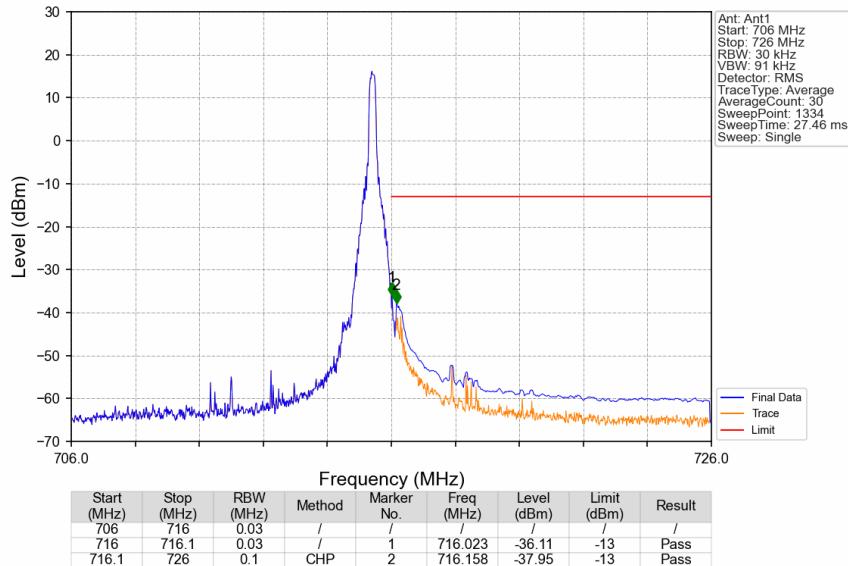
**Band12\_10MHz\_16QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV****Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_1\_0\_NTNV**

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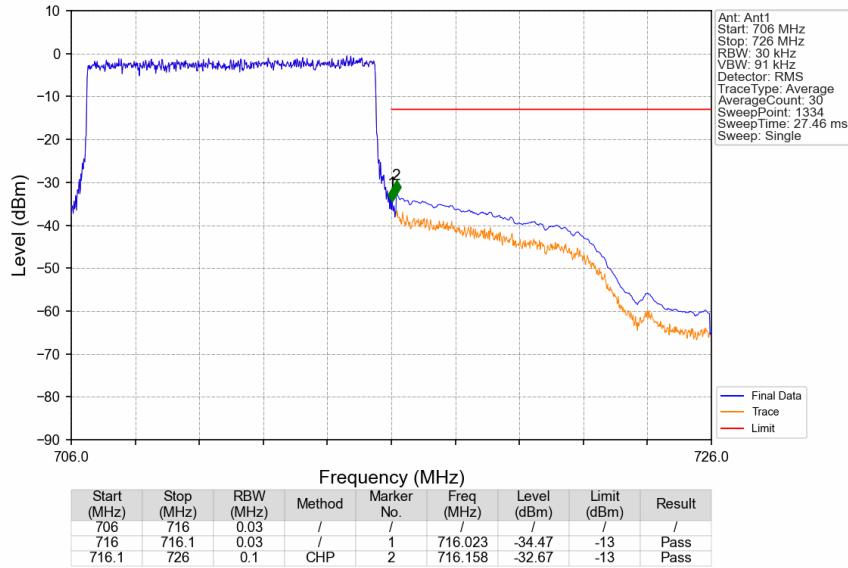
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## Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_1\_49\_NTNV



## Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



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## 6. Field Strength of Spurious Radiation

LTE Band 12-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1399.0	-69.86	-13	-56.86	-73.17	1.93	5.24	Horizontal	Pass
2098.5	-61.68	-13	-48.68	-64.13	2.41	4.86	Horizontal	Pass
2798.0	-63.43	-13	-50.43	-67.07	2.84	6.48	Horizontal	Pass
1399.0	-69.72	-13	-56.72	-73.03	1.93	5.24	Vertical	Pass
2098.5	-61.82	-13	-48.82	-64.27	2.41	4.86	Vertical	Pass
2798.0	-63.65	-13	-50.65	-67.29	2.84	6.48	Vertical	Pass
LTE Band 12-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1406.0	-69.23	-13	-56.23	-72.58	1.93	5.28	Horizontal	Pass
2109.0	-62.33	-13	-49.33	-64.79	2.42	4.88	Horizontal	Pass
2812.0	-64.31	-13	-51.31	-67.97	2.85	6.51	Horizontal	Pass
1406.0	-70.34	-13	-57.34	-73.69	1.93	5.28	Vertical	Pass
2109.0	-62.5	-13	-49.5	-64.96	2.42	4.88	Vertical	Pass
2812.0	-62.52	-13	-49.52	-66.18	2.85	6.51	Vertical	Pass
LTE Band 12-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1413.0	-70.08	-13	-57.08	-73.47	1.94	5.33	Horizontal	Pass
2119.5	-63.56	-13	-50.56	-66.05	2.42	4.91	Horizontal	Pass
2826.0	-63.76	-13	-50.76	-67.44	2.86	6.54	Horizontal	Pass
1413.0	-68.57	-13	-55.57	-71.96	1.94	5.33	Vertical	Pass
2119.5	-63.13	-13	-50.13	-65.62	2.42	4.91	Vertical	Pass
2826.0	-63.83	-13	-50.83	-67.51	2.86	6.54	Vertical	Pass

---End of Attachment---



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