



## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Page: 1 of 582

### 1. Spurious Emission

#### 1.1 B12\_1.4MHz

##### 1.1.1 Test Result

Band: 12 / Bandwidth: 1.4MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		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



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Testing Laboratory

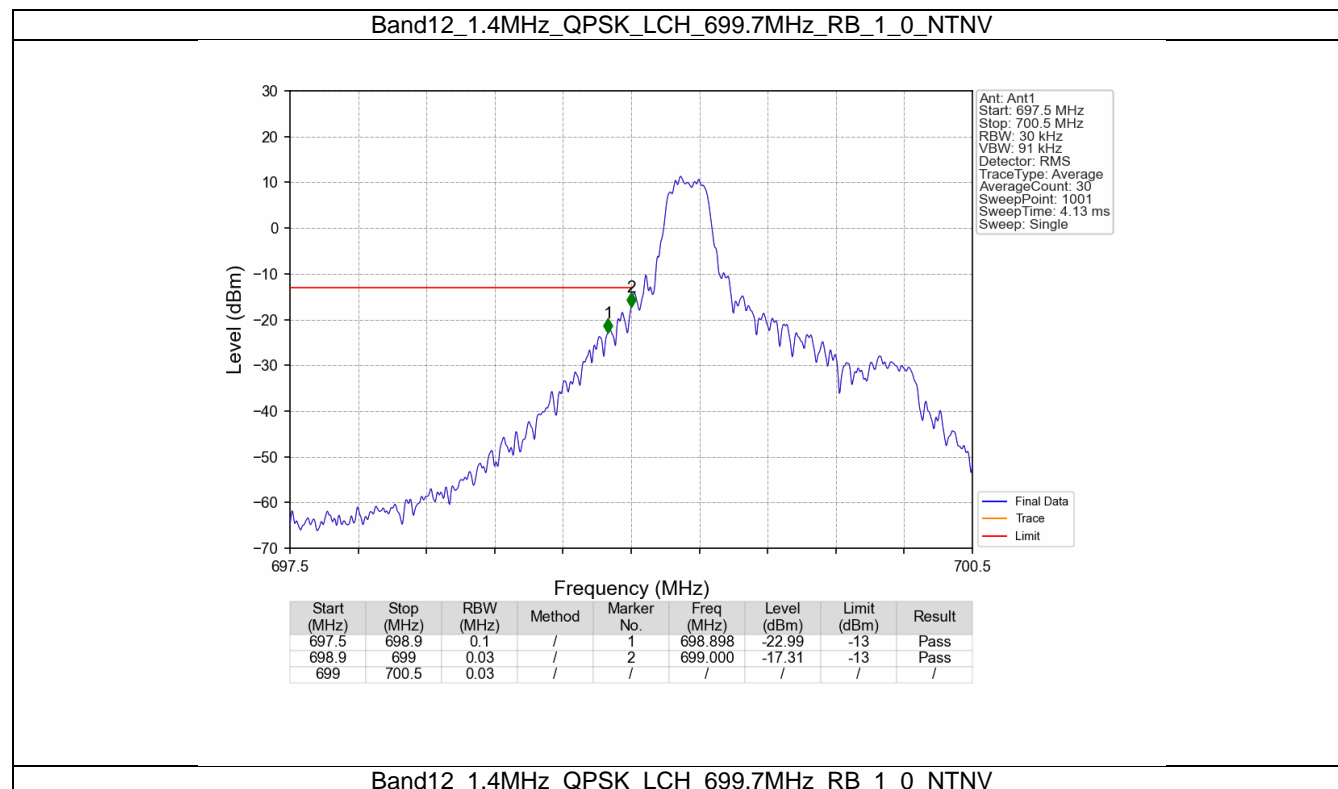
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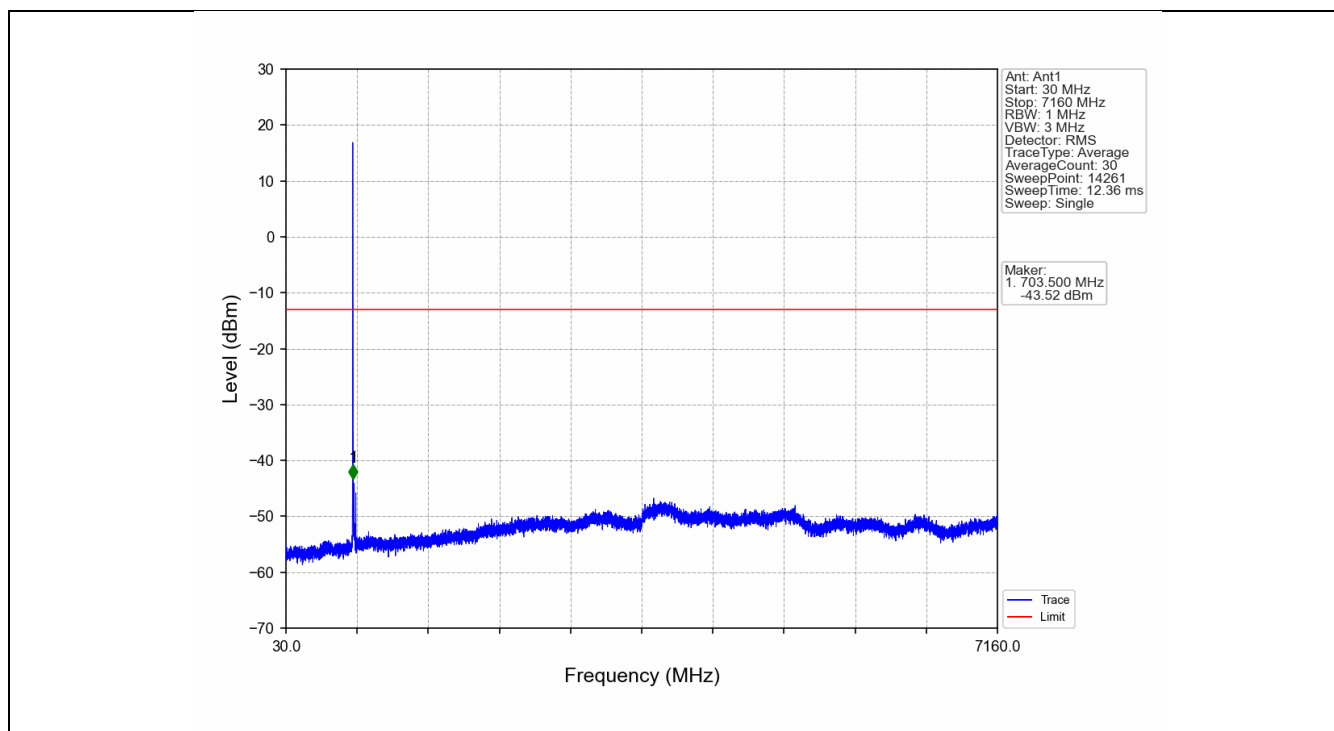
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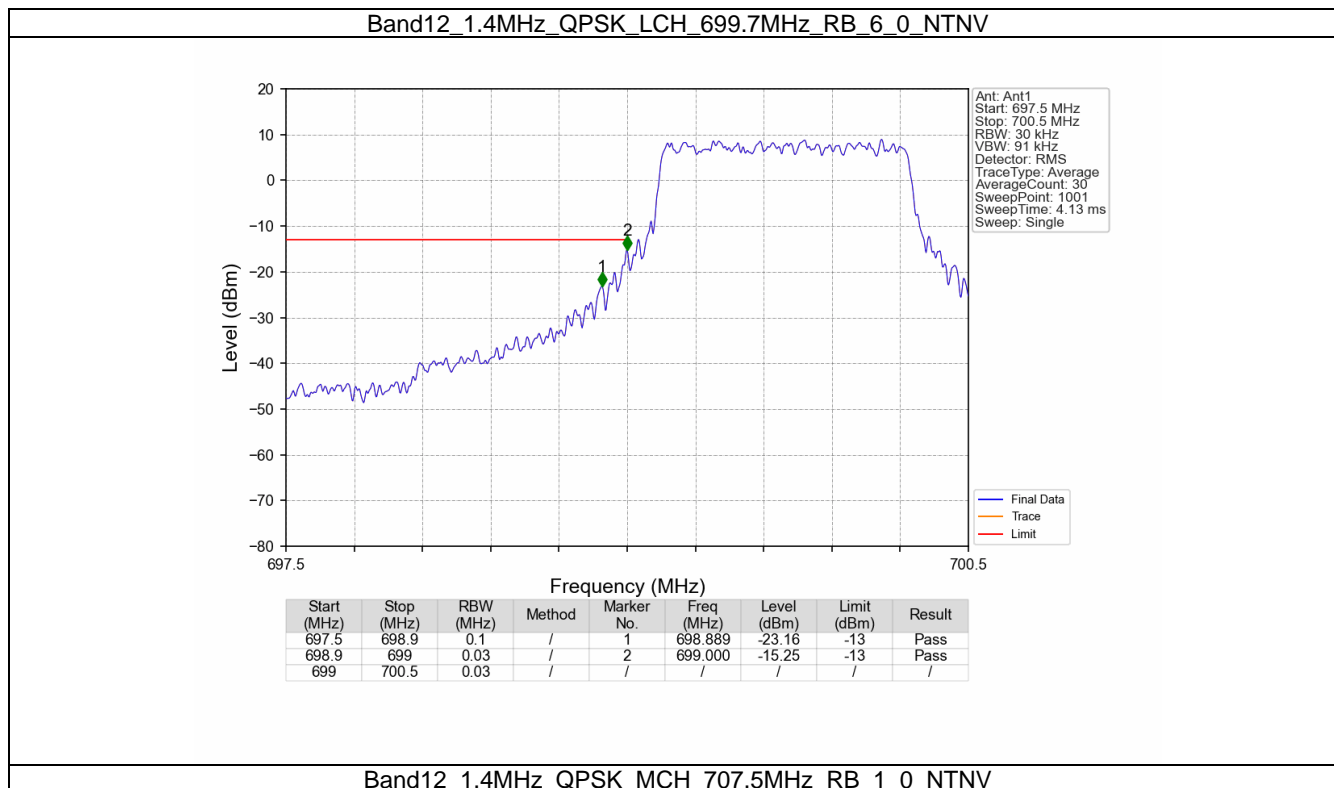
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### 1.1.2 Test Graph

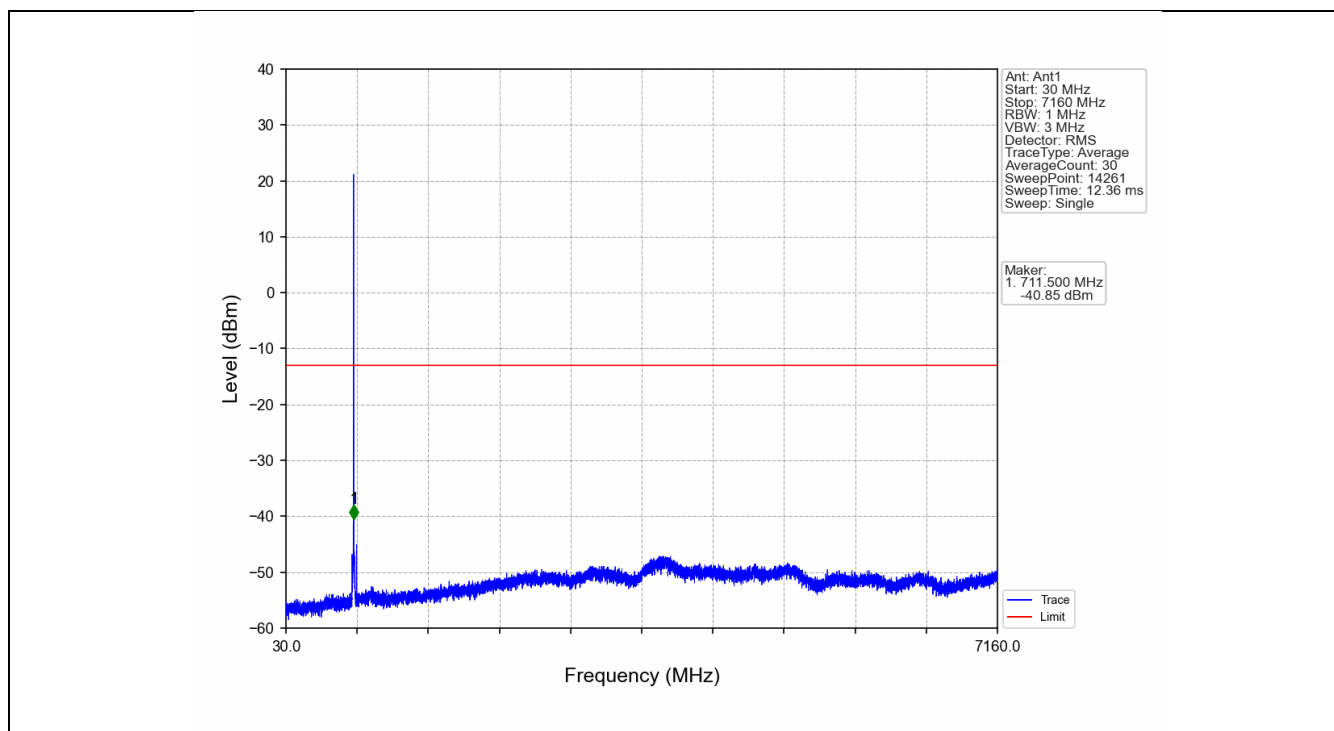




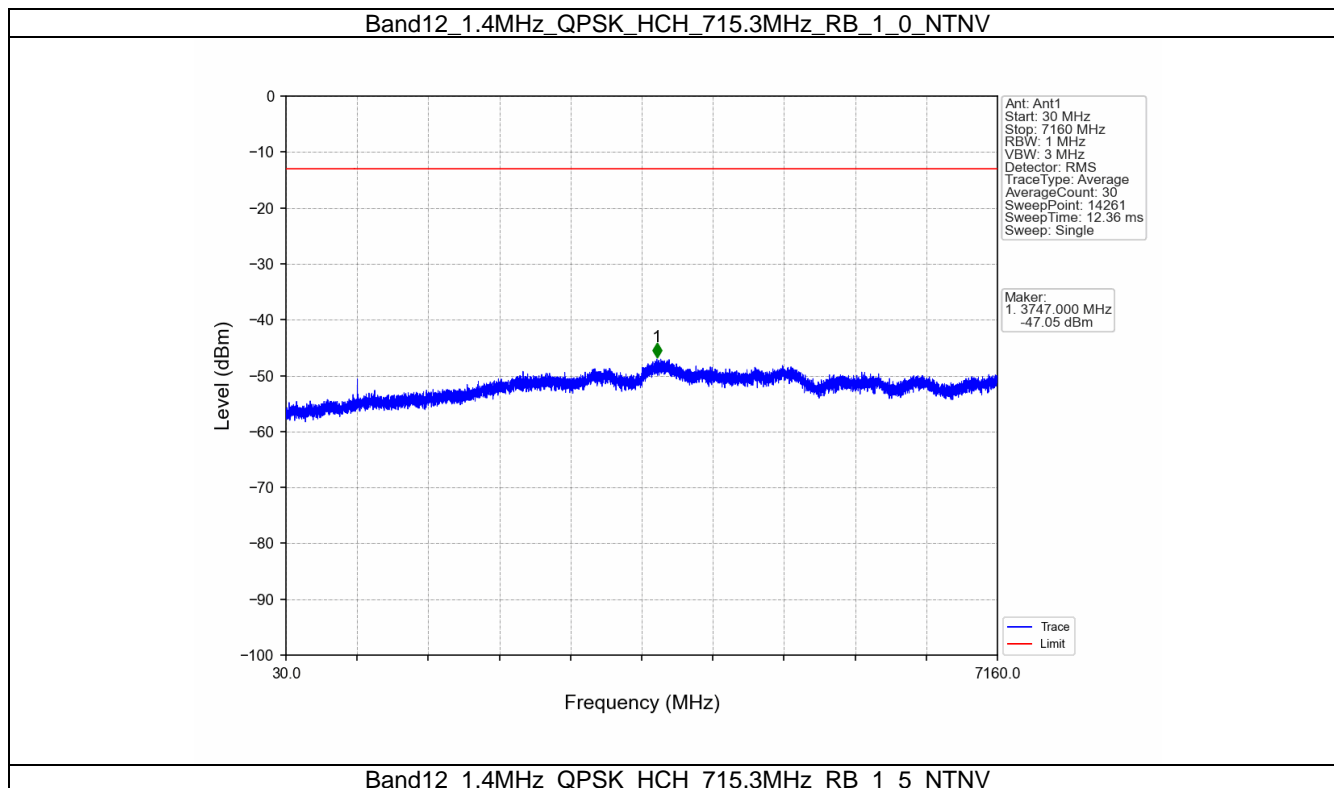


Band12\_1.4MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



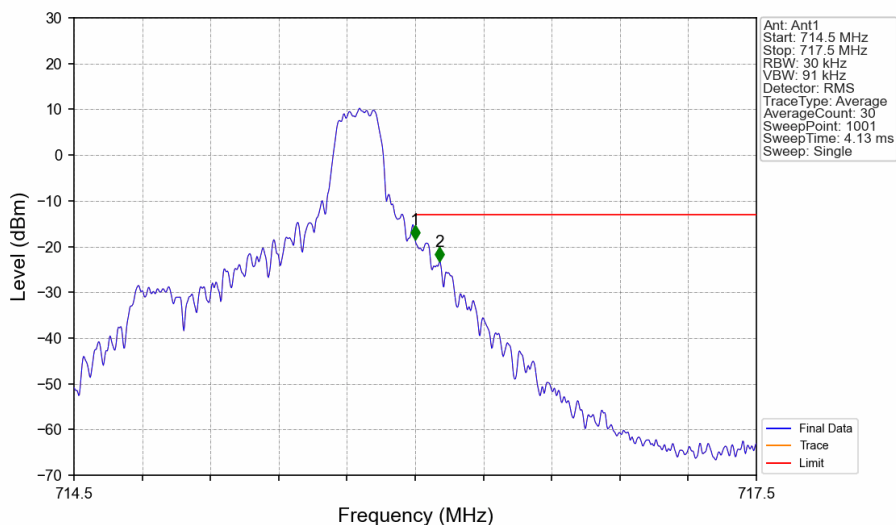






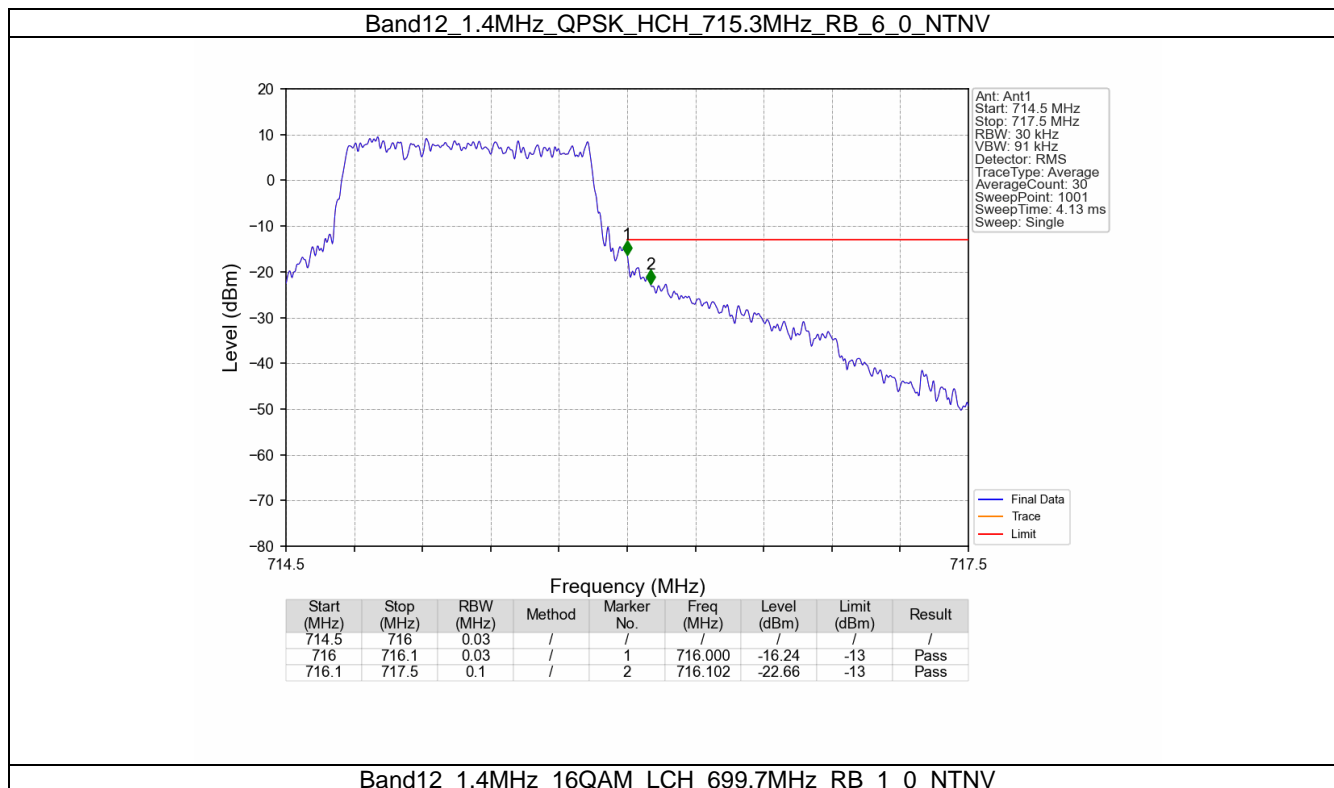
Band12\_1.4MHz\_QPSK\_HCH\_715.3MHz\_RB\_1\_5\_NTNV





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	716.000	-18.51	-13	Pass
716.1	717.5	0.1	/	2	716.108	-23.29	-13	Pass

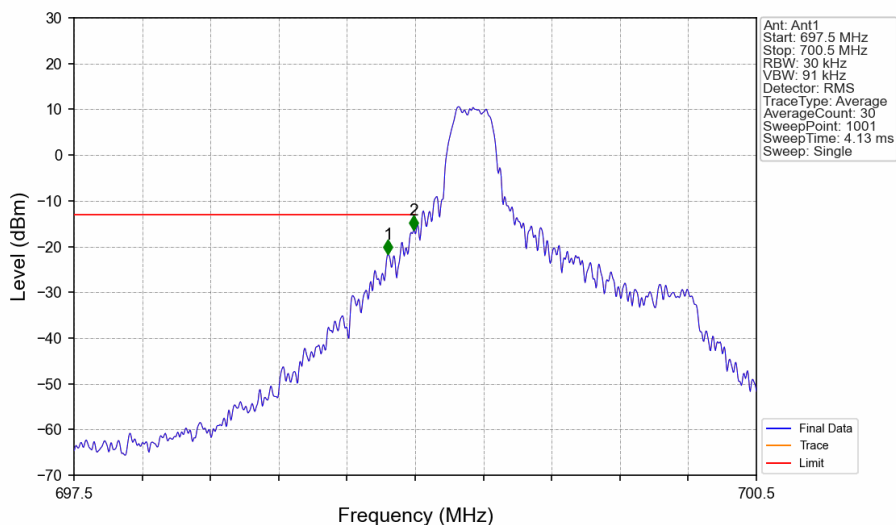




Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_1\_0\_NTNV

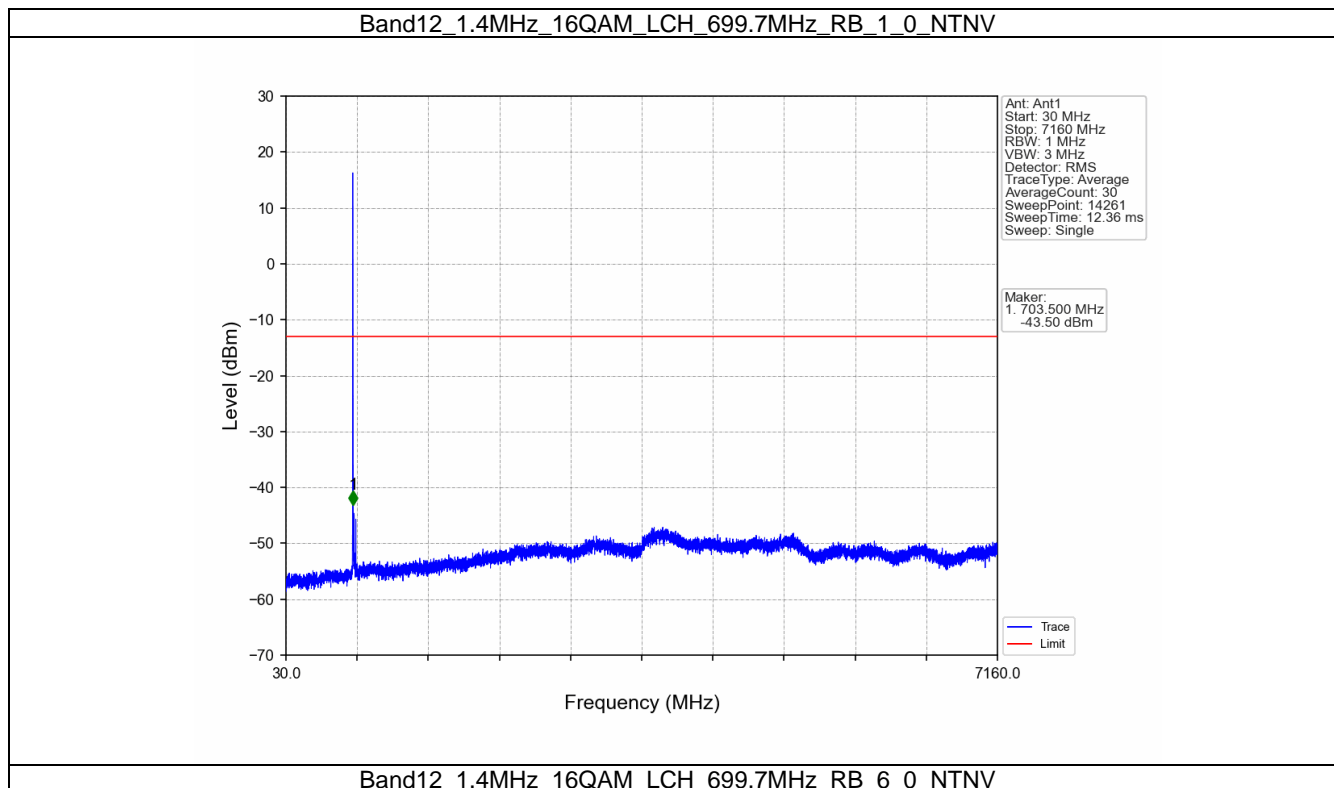






Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	/	1	698.880	-21.72	-13	Pass
698.9	699	0.03	/	2	698.994	-16.36	-13	Pass
699	700.5	0.03	/	/	/	/	/	/





Band12\_1.4MHz\_16QAM\_LCH\_699.7MHz\_RB\_6\_0\_NTNV

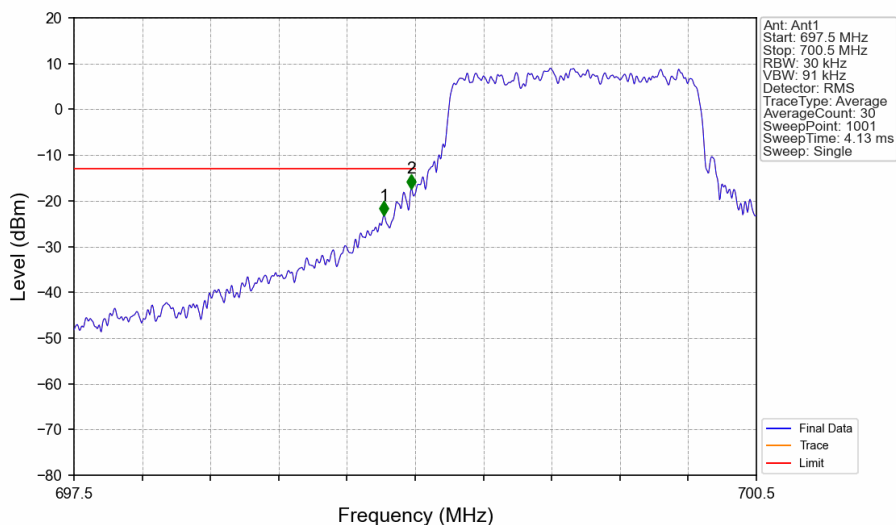


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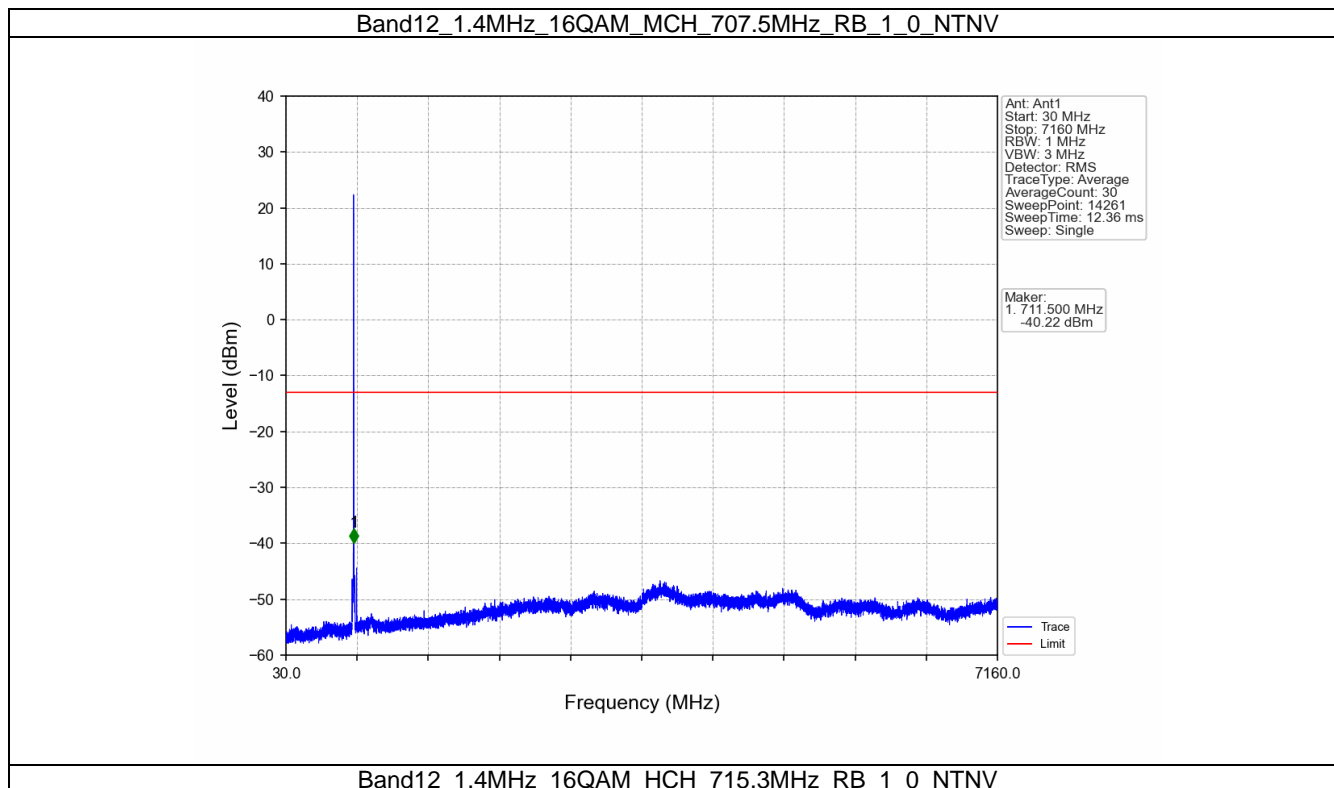
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
697.5	698.9	0.1	/	1	698.862	-23.16	-13	Pass
698.9	699	0.03	/	2	698.982	-17.32	-13	Pass
699	700.5	0.03	/	/	/	/	/	/





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

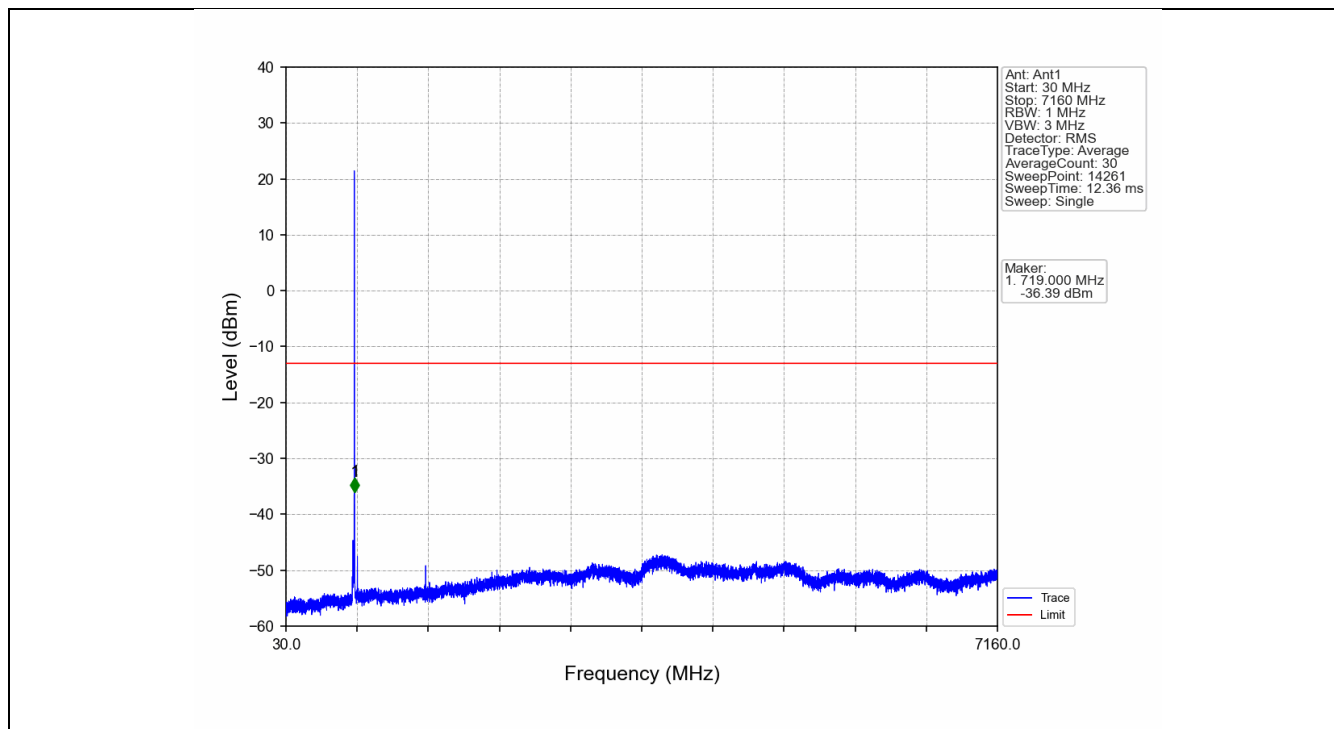


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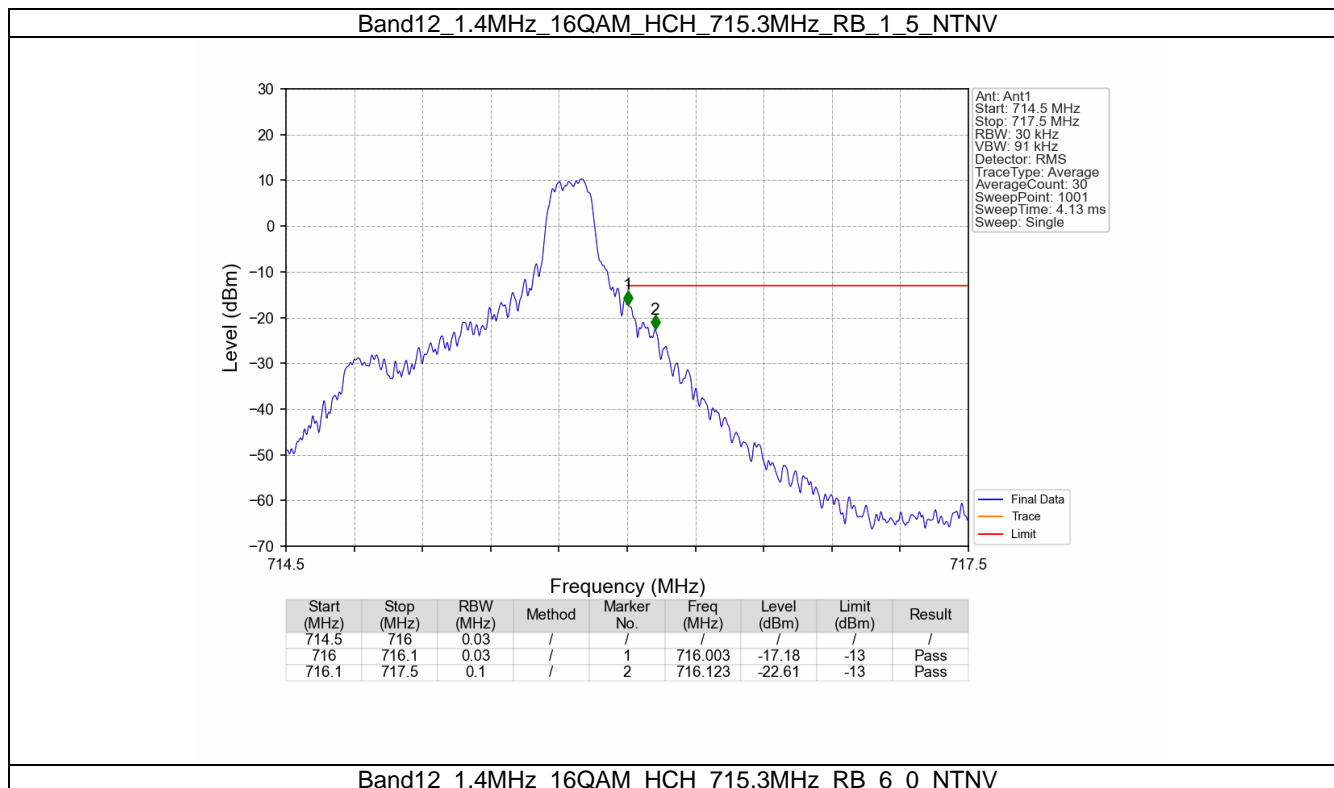
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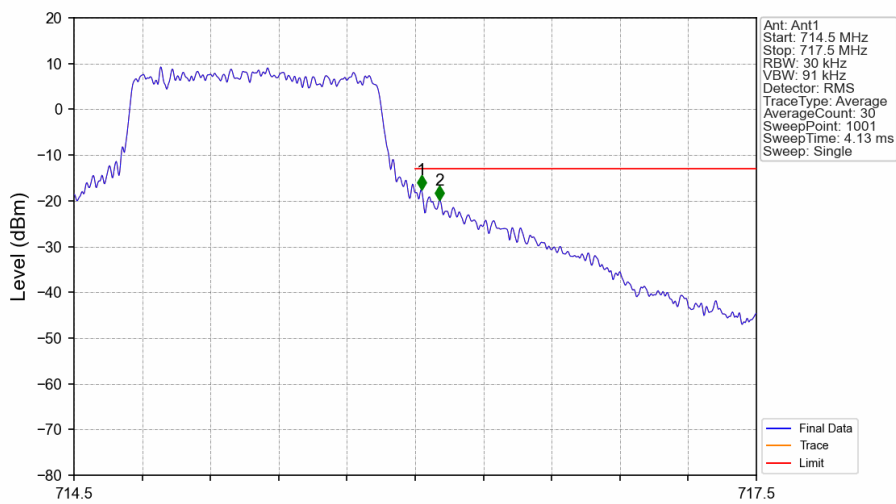
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.027	-17.61	-13	Pass
716.1	717.5	0.1	/	2	716.108	-19.85	-13	Pass



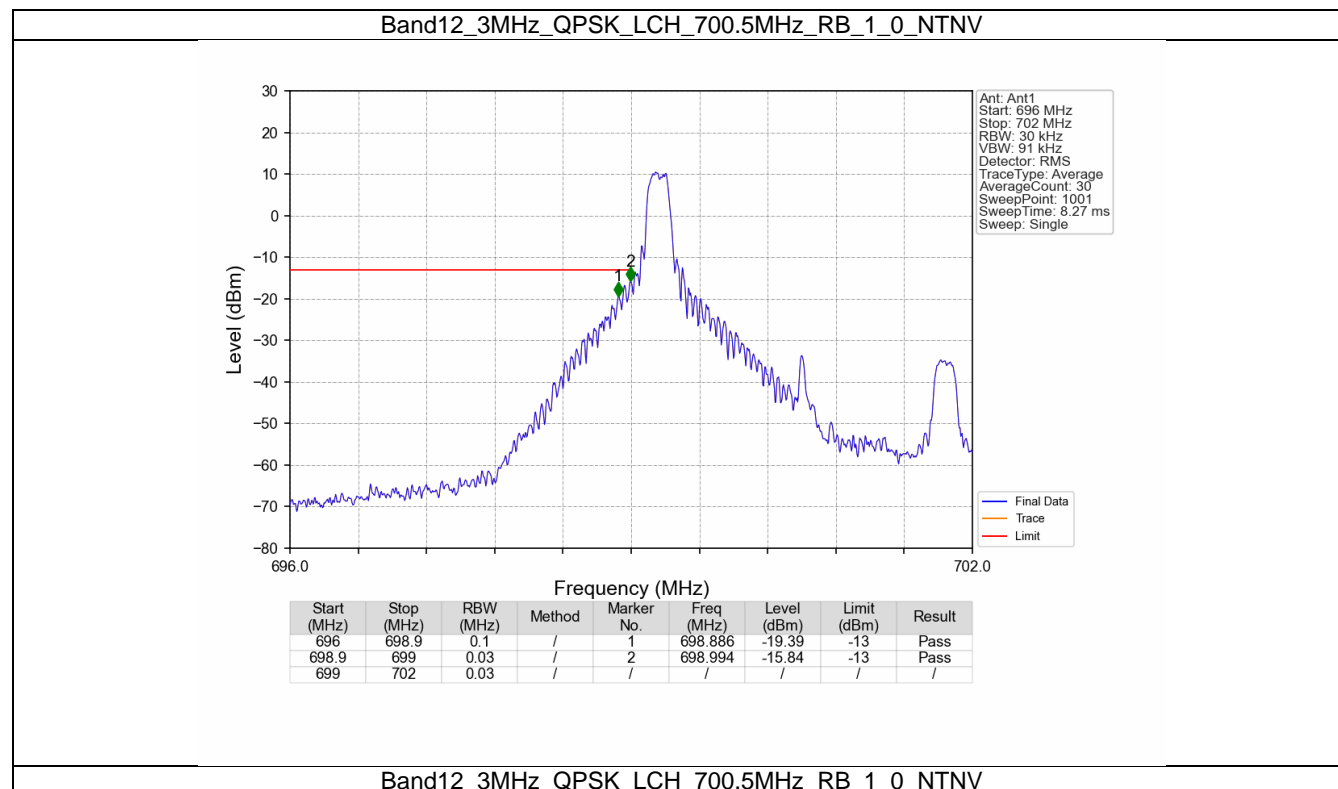
### 1.2 B12\_3MHz

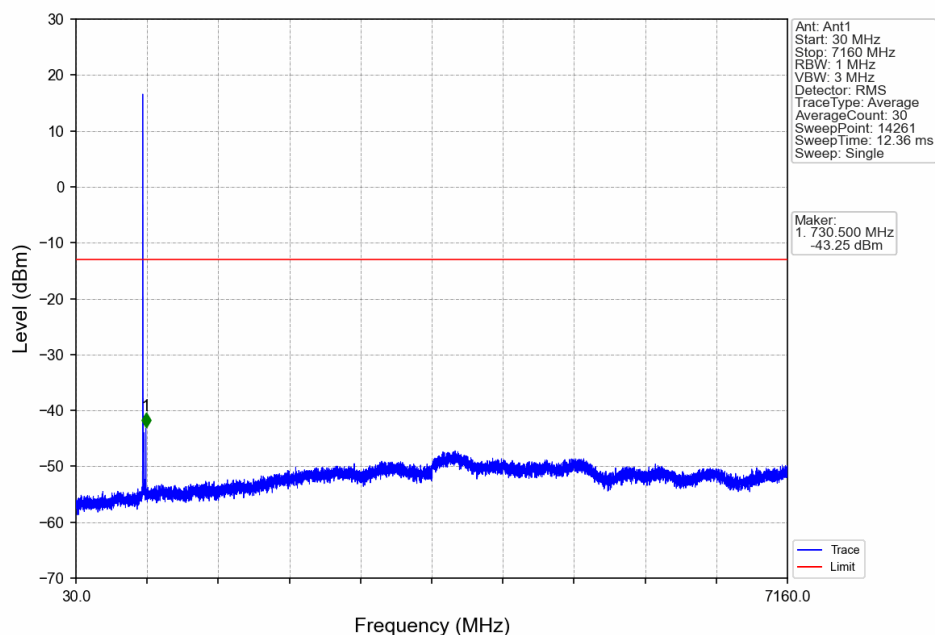
#### 1.2.1 Test Result

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		Pass
		15	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
	714.5	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
	714.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

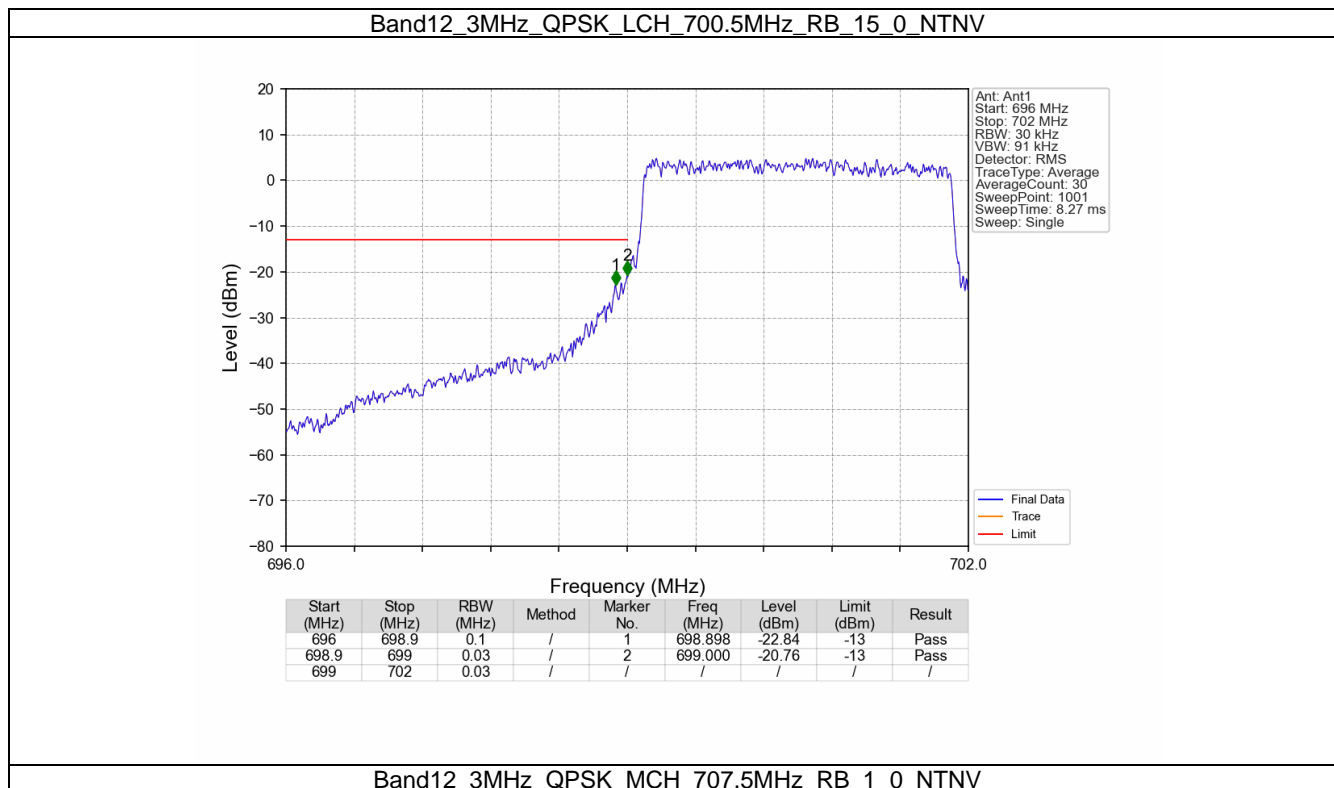


### 1.2.2 Test Graph



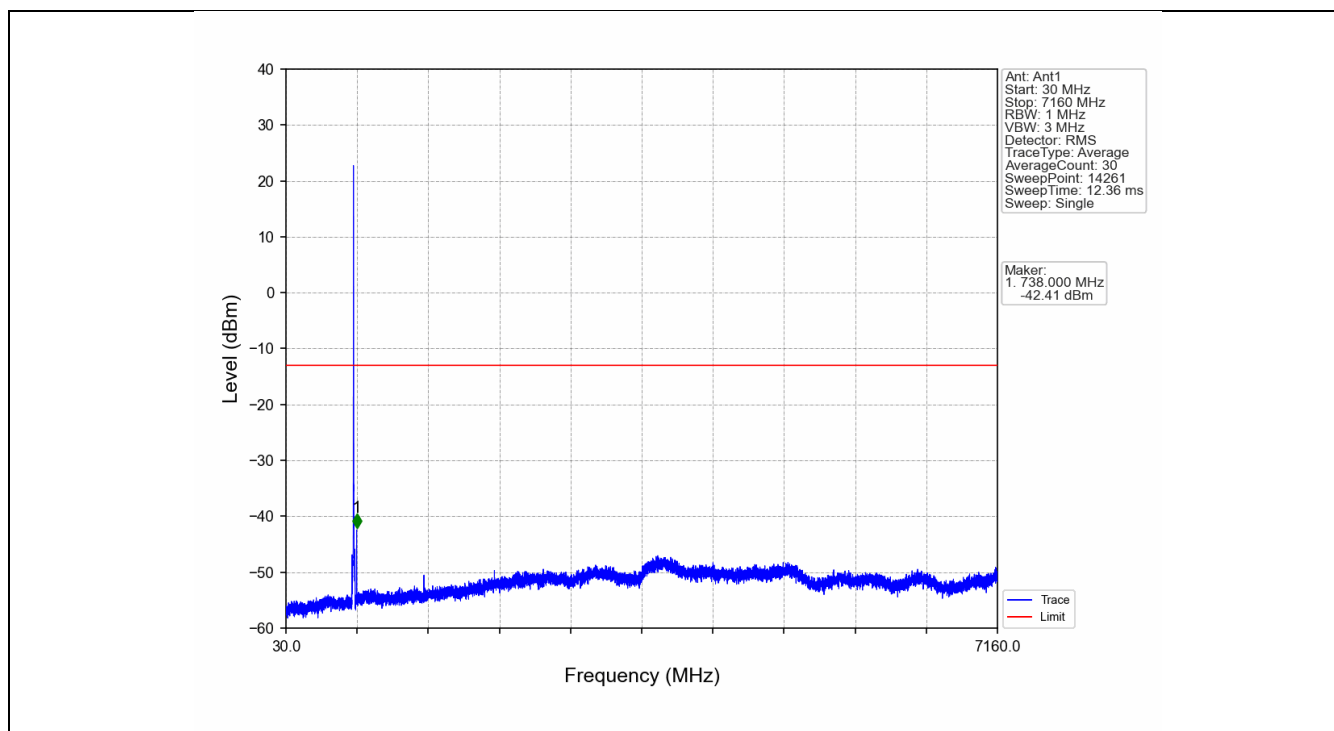


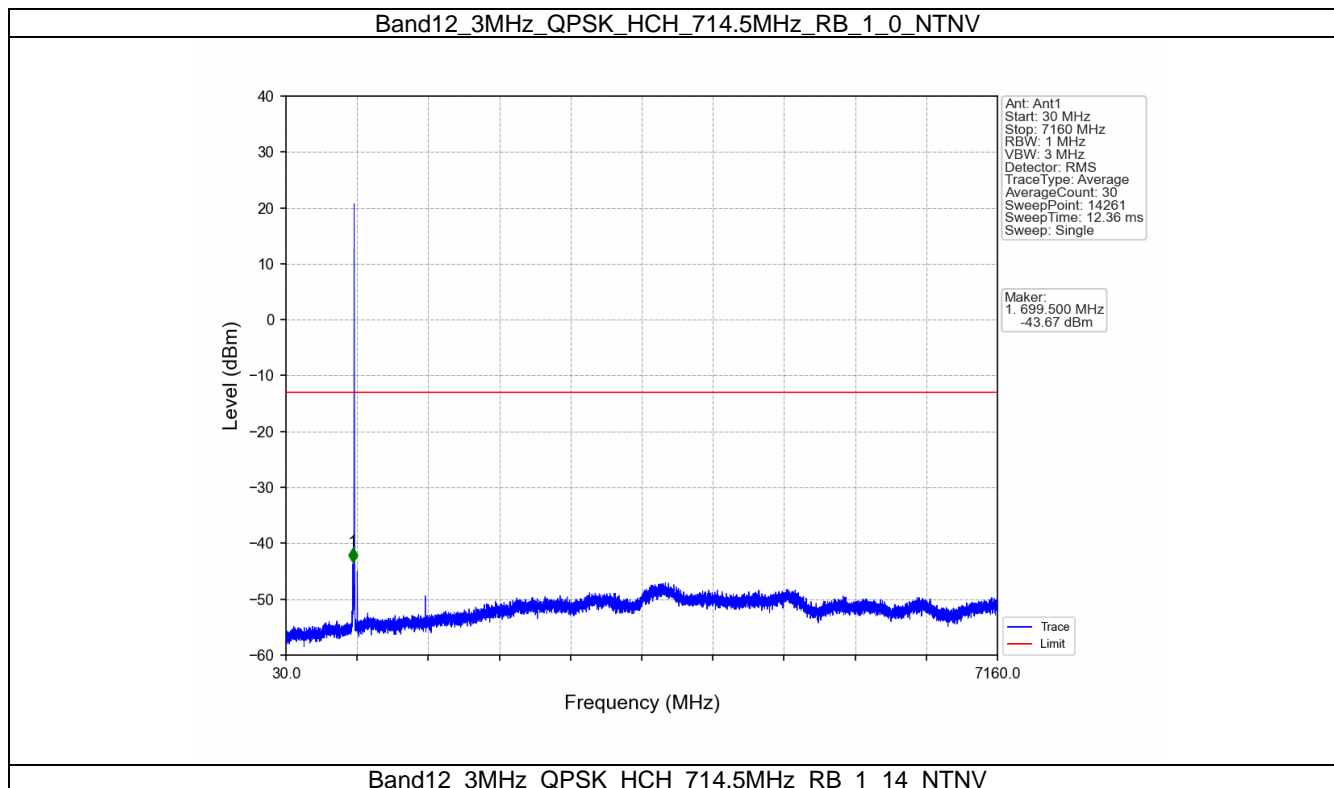


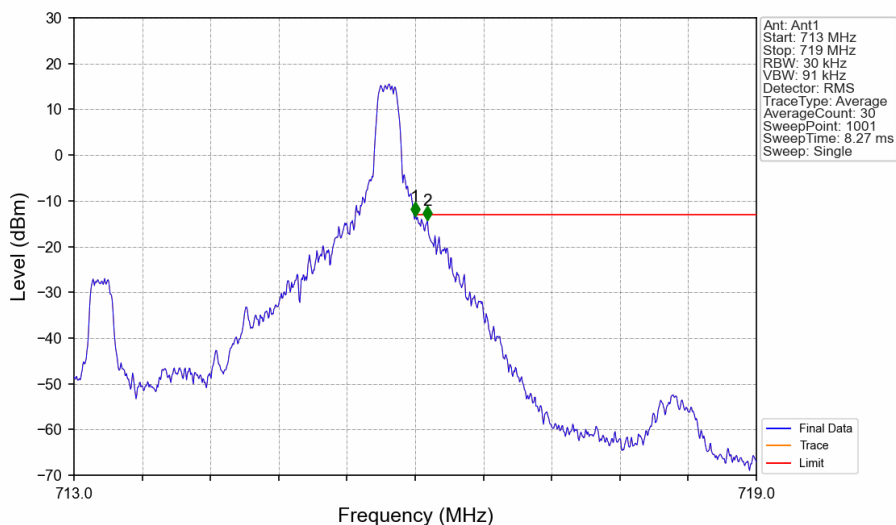


Band12\_3MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



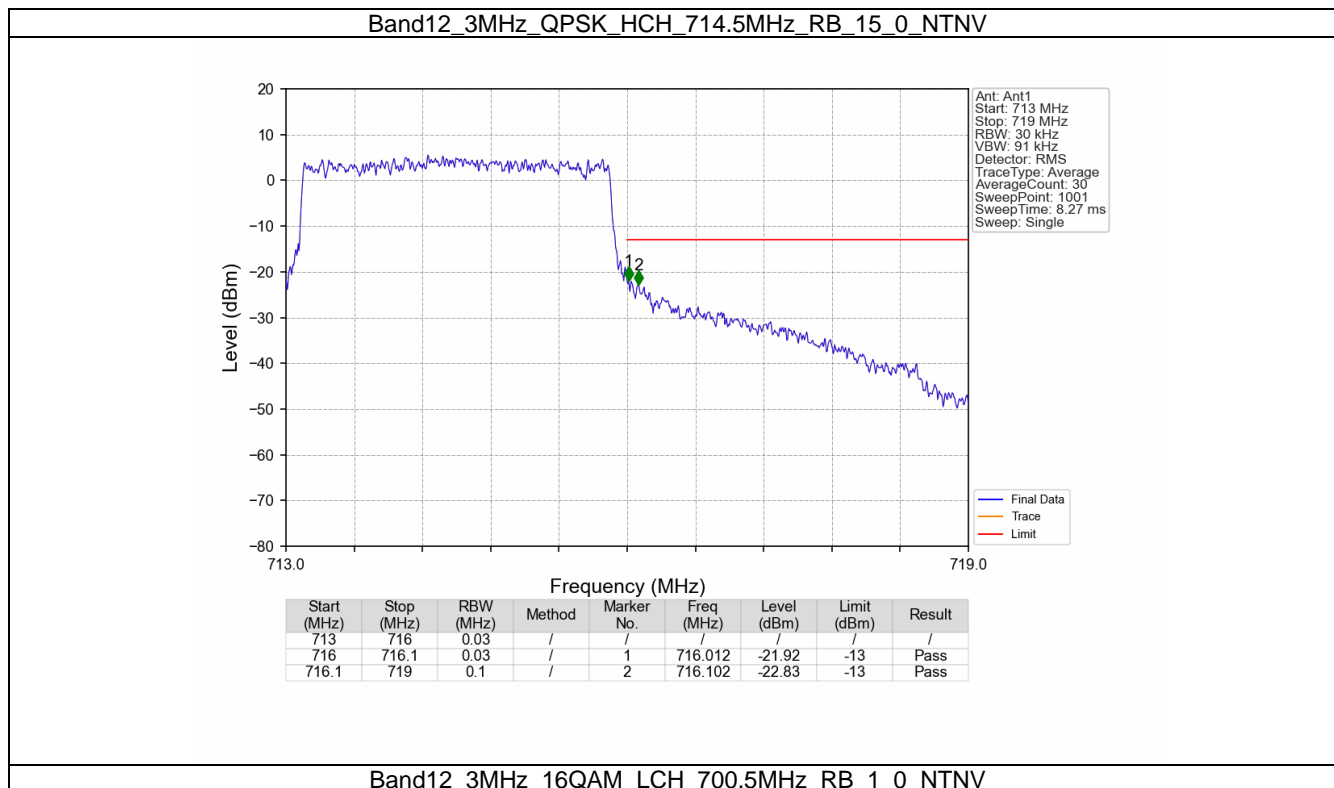






Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-13.45	-13	Pass
716.1	719	0.1	/	2	716.108	-14.35	-13	Pass

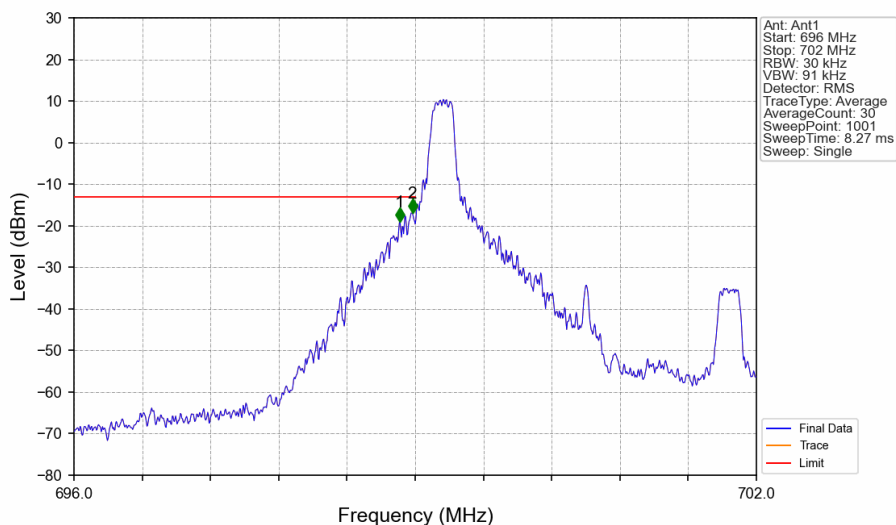




Band12\_3MHz\_16QAM\_LCH\_700.5MHz\_RB\_1\_0\_NTNV

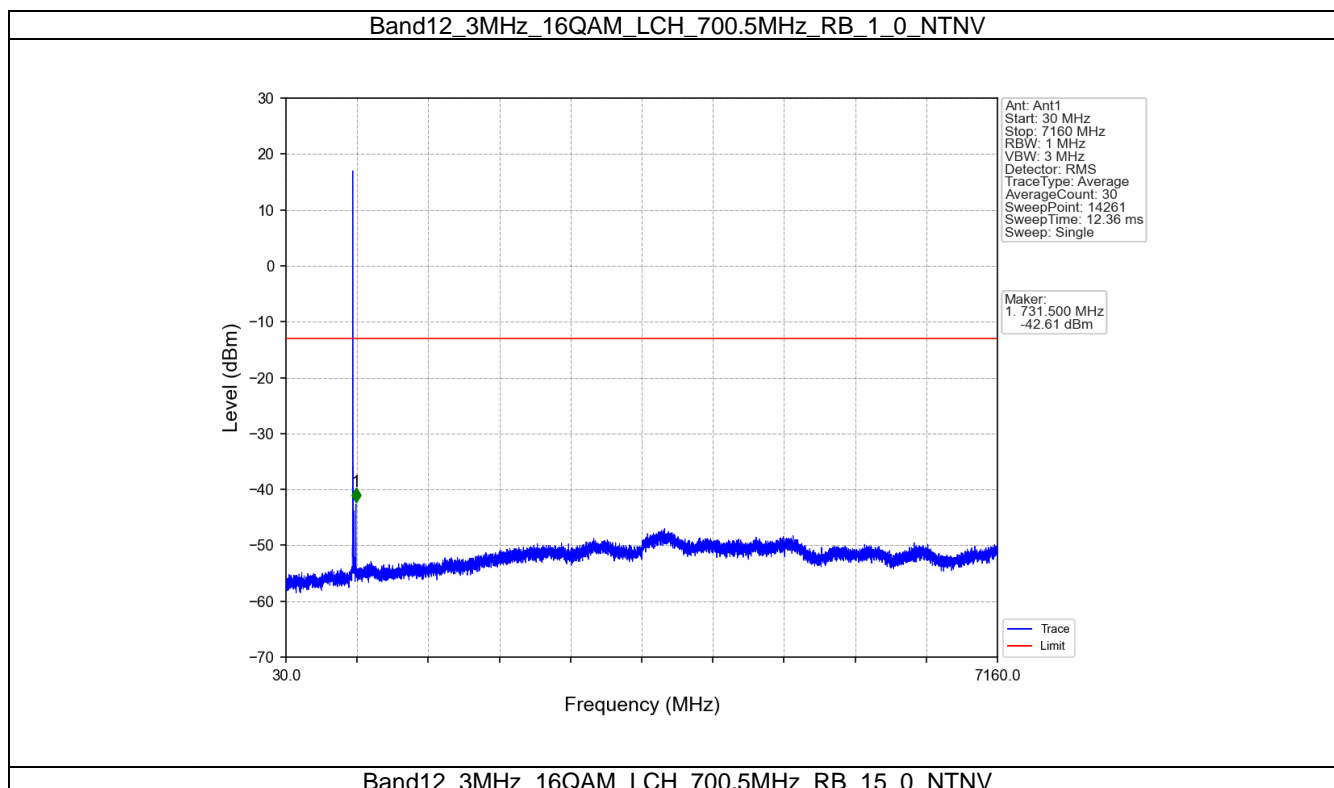


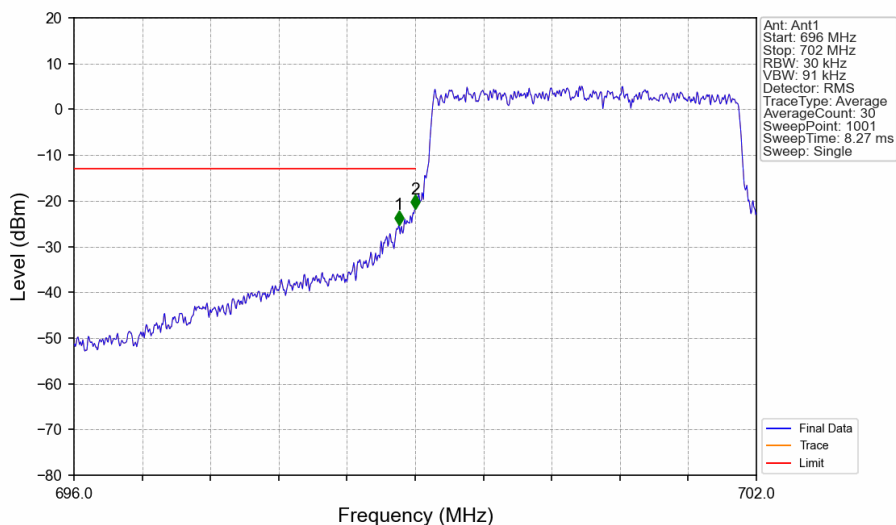




Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	/	1	698.862	-19.03	-13	Pass
698.9	699	0.03	/	2	698.976	-16.90	-13	Pass
699	702	0.03	/	/	/	/	/	/

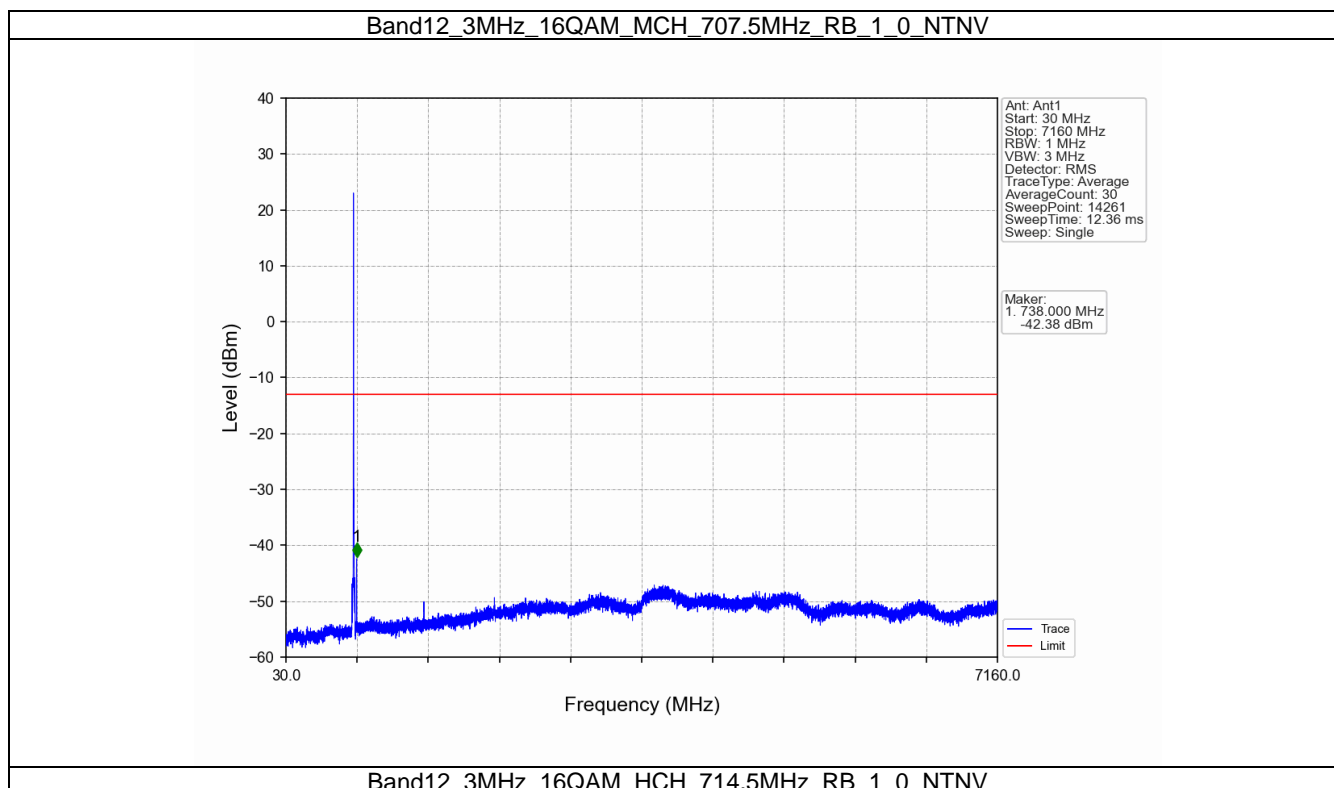






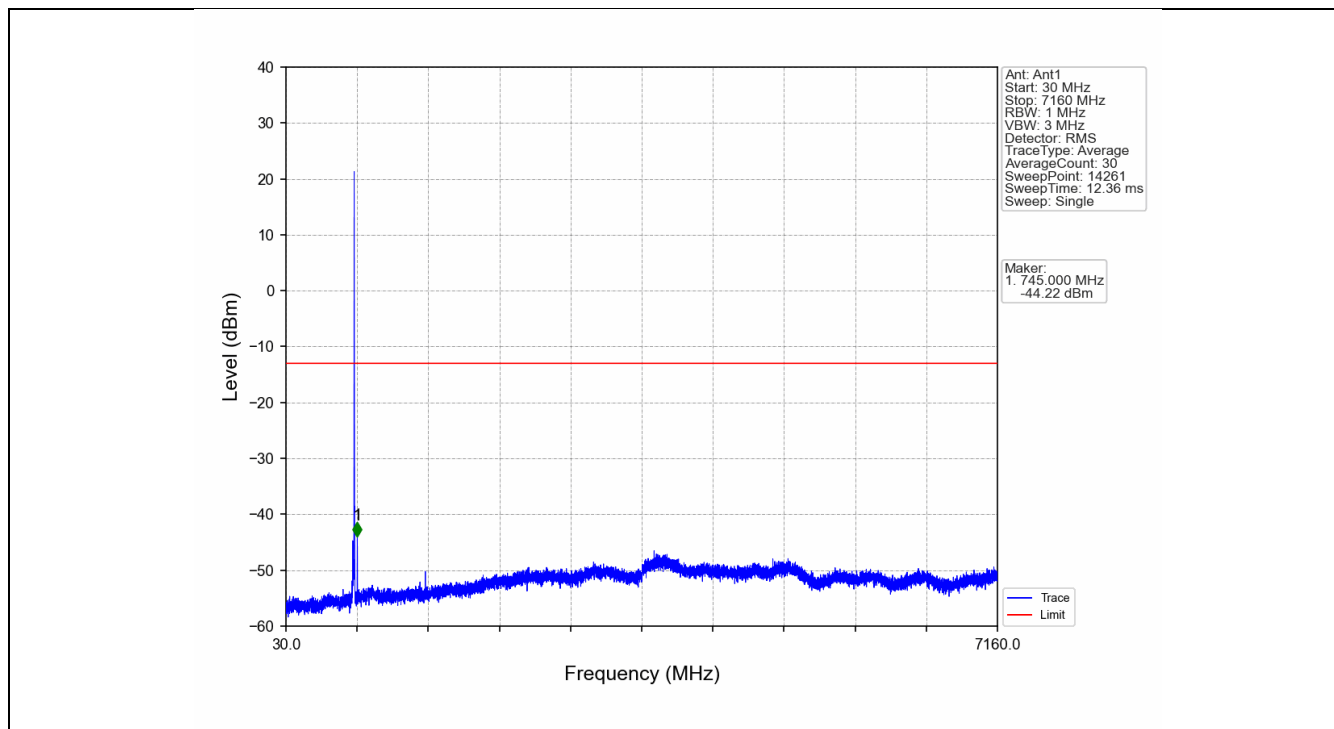
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
696	698.9	0.1	/	1	698.856	-25.24	-13	Pass
698.9	699	0.03	/	2	699.000	-21.77	-13	Pass
699	702	0.03	/	/	/	/	/	/



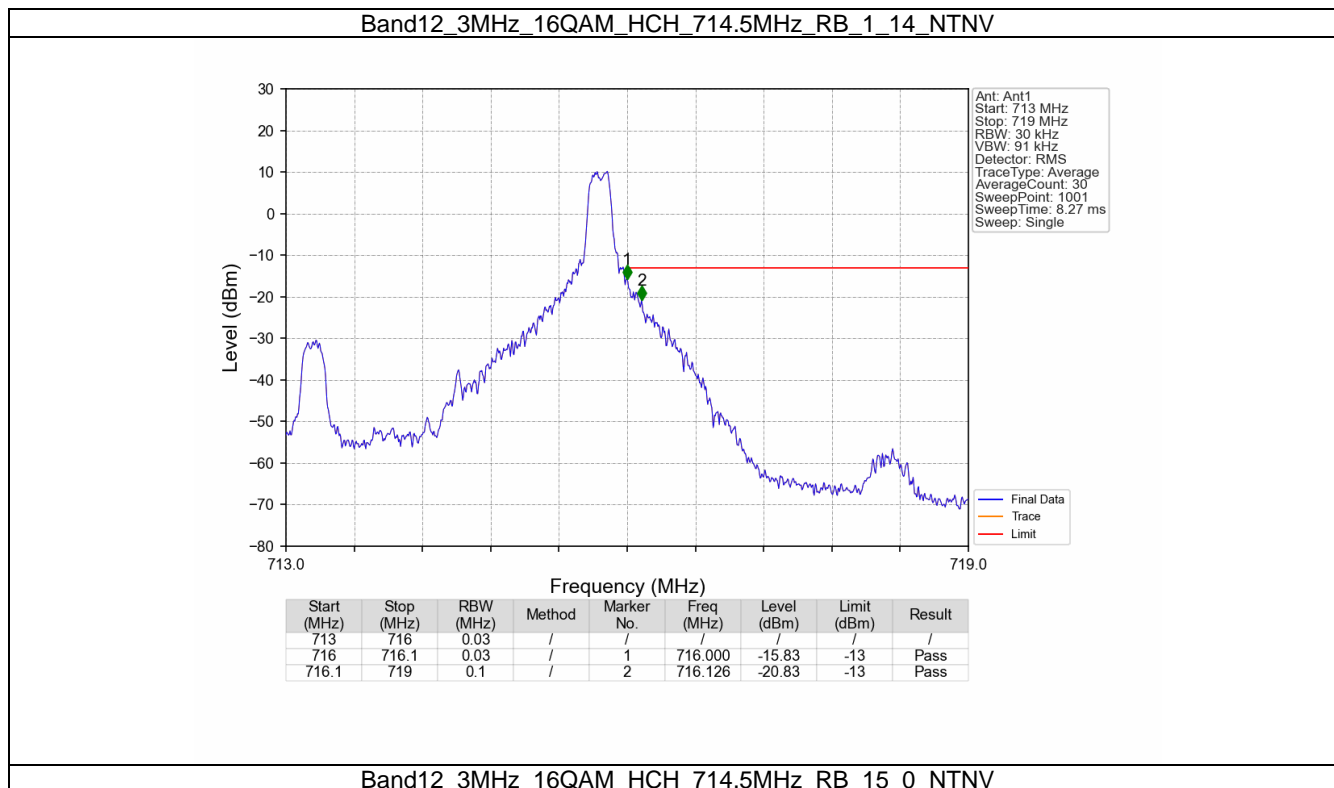


Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_1\_0\_NTNV



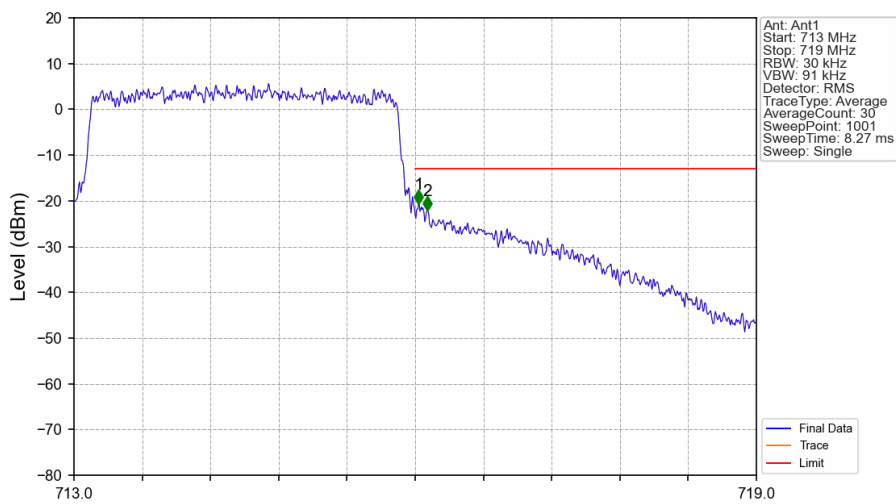






Band12\_3MHz\_16QAM\_HCH\_714.5MHz\_RB\_15\_0\_NTNV





Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.030	-20.70	-13	Pass
716.1	719	0.1	/	2	716.108	-22.17	-13	Pass



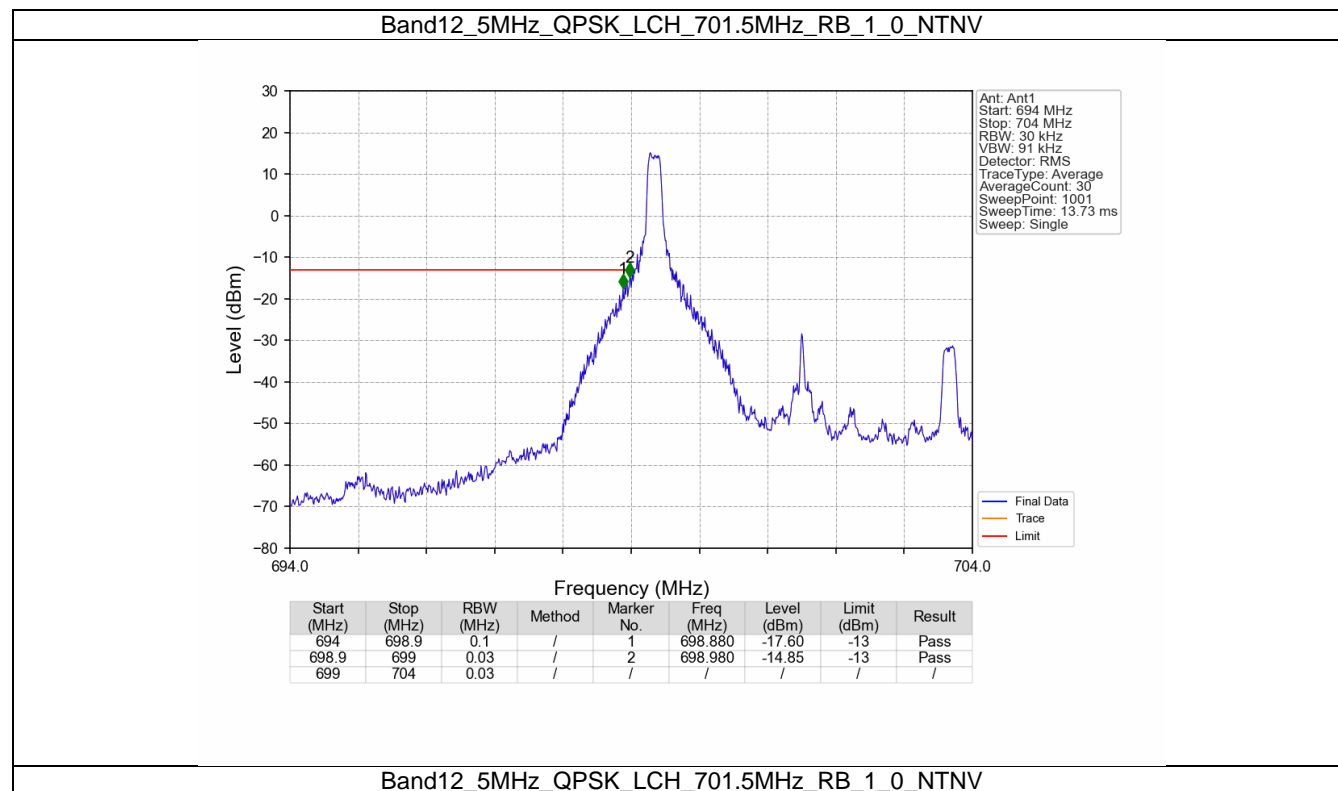
### 1.3 B12\_5MHz

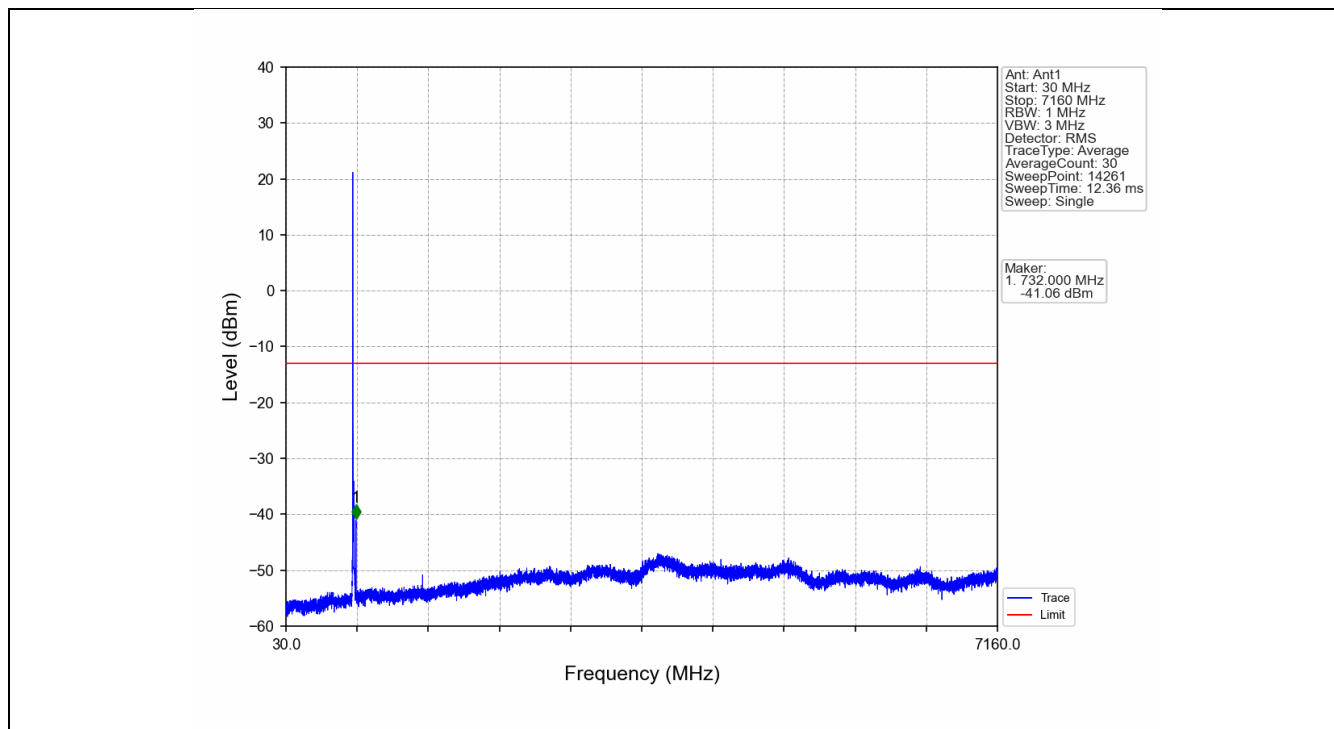
#### 1.3.1 Test Result

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		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

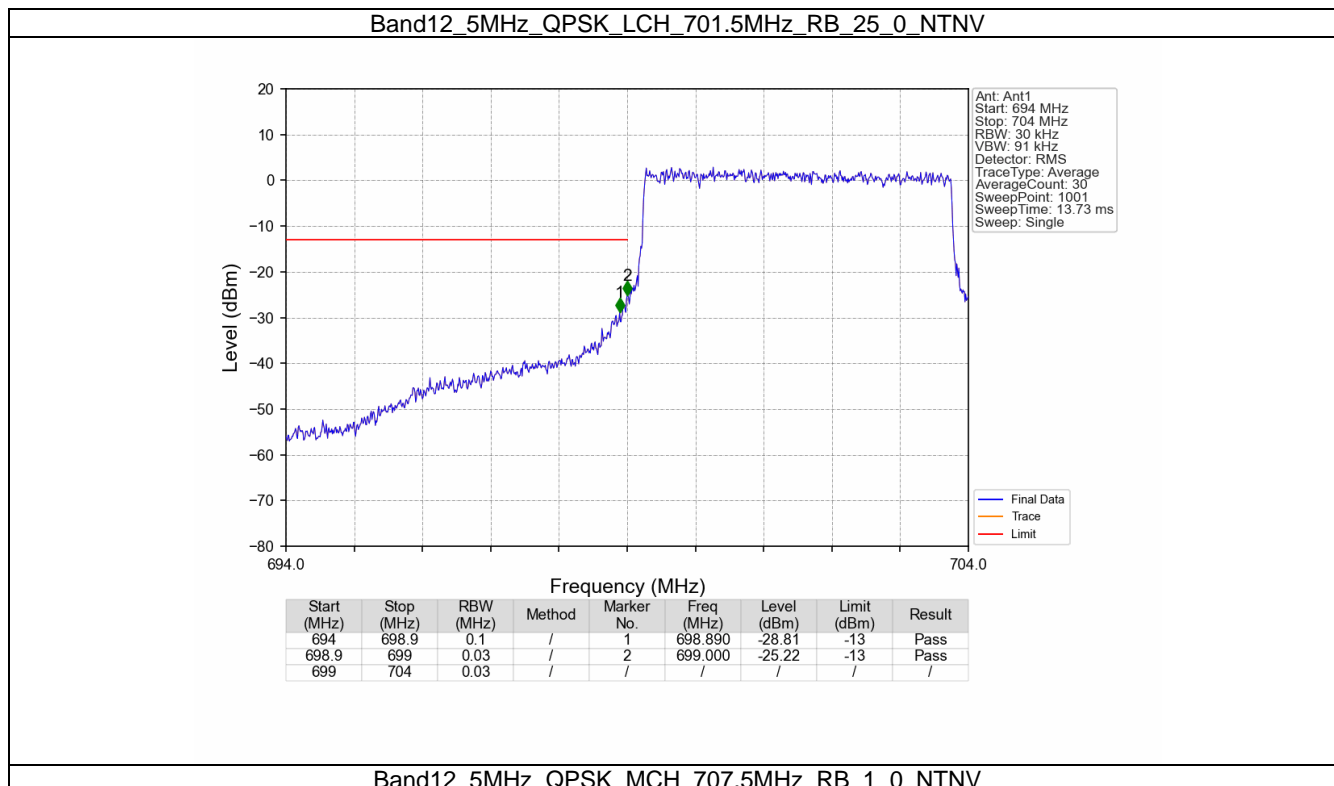


### 1.3.2 Test Graph



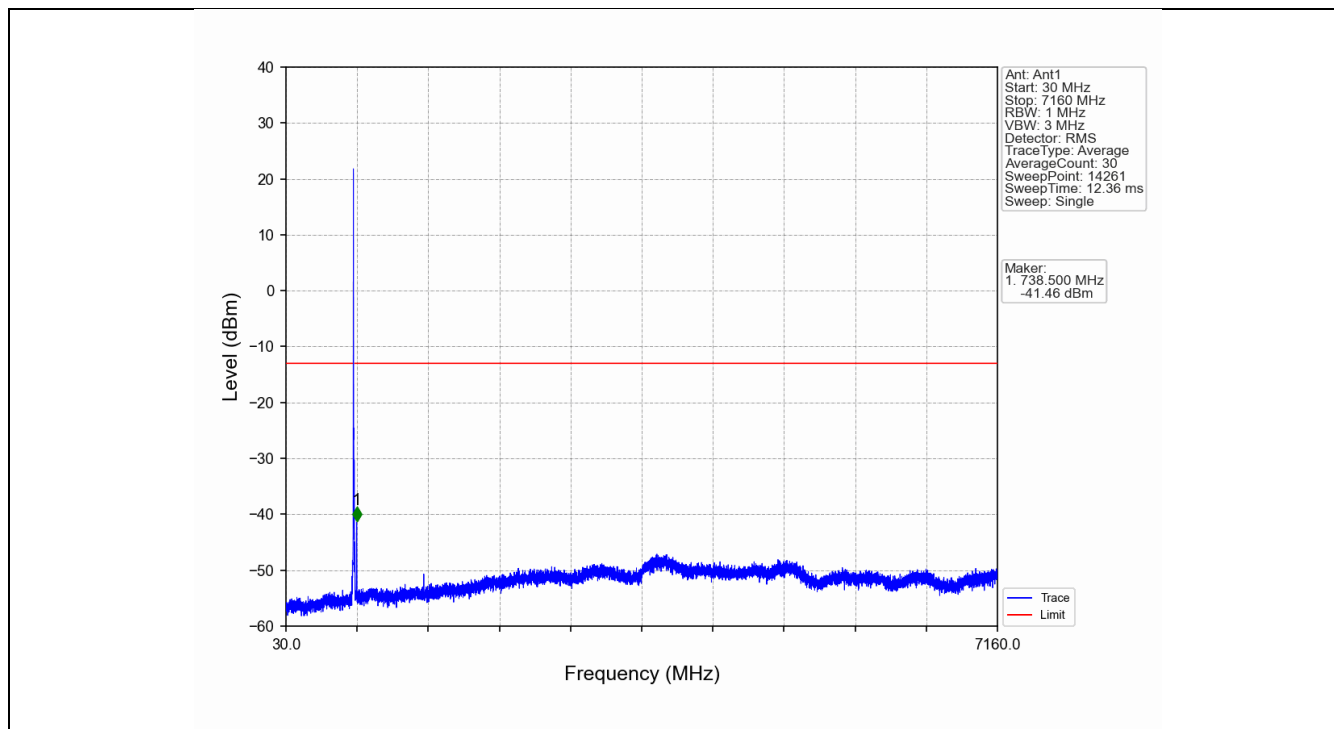


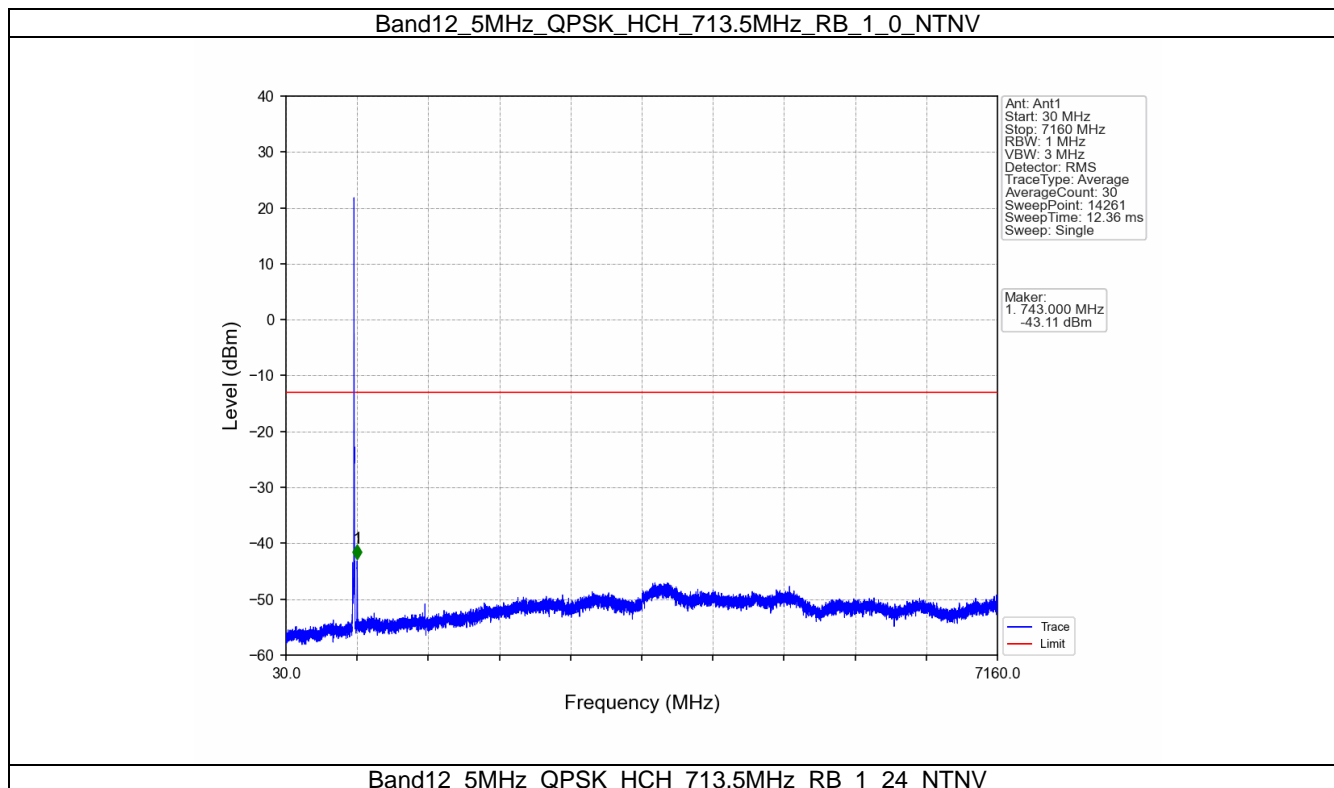


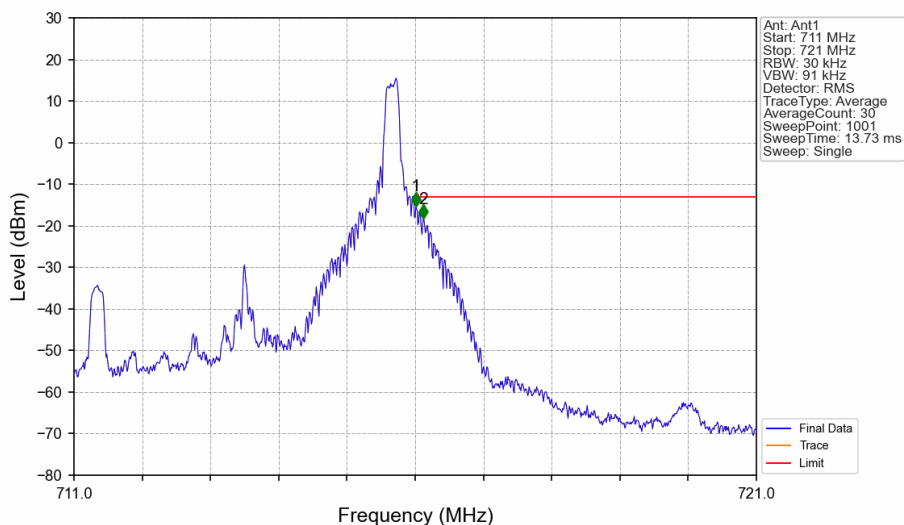


Band12\_5MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



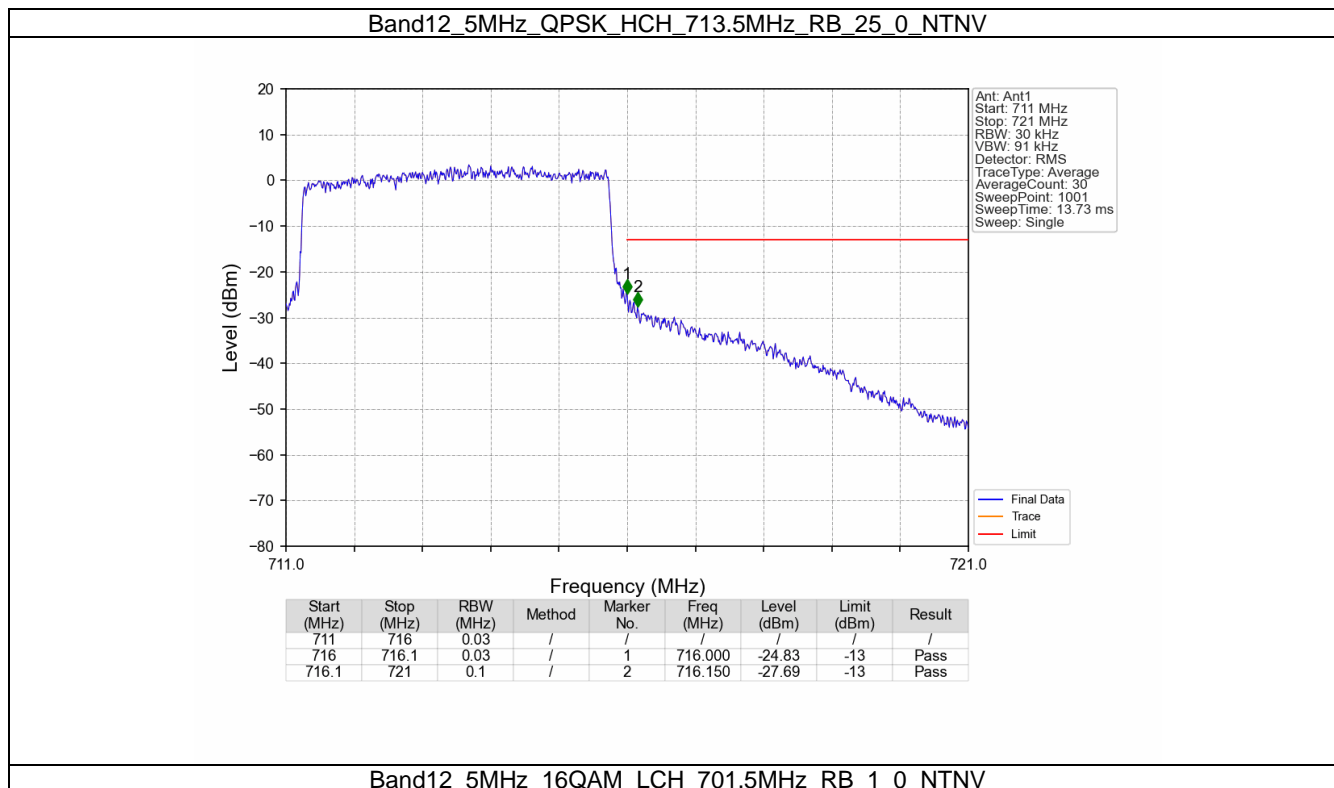






Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-15.31	-13	Pass
716.1	721	0.1	/	2	716.120	-18.34	-13	Pass

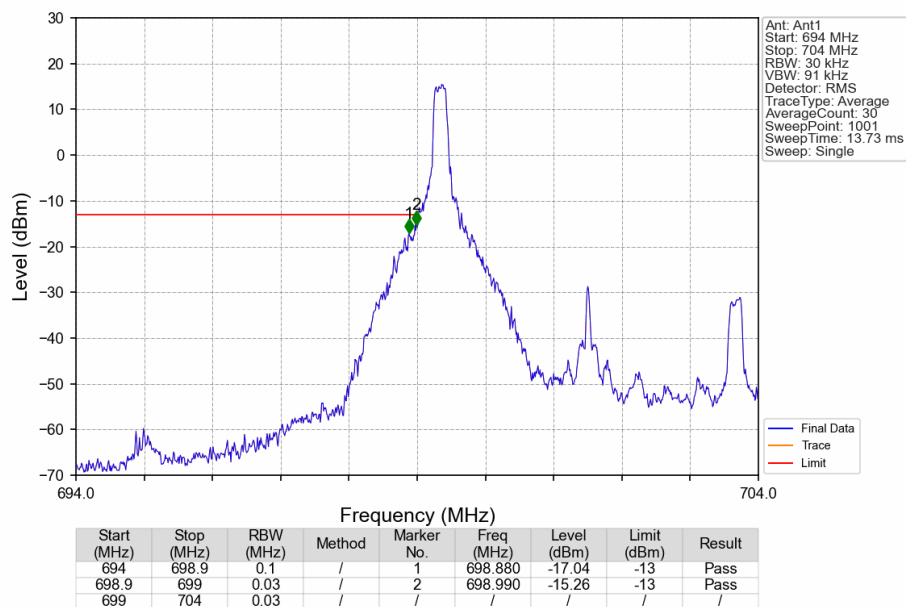


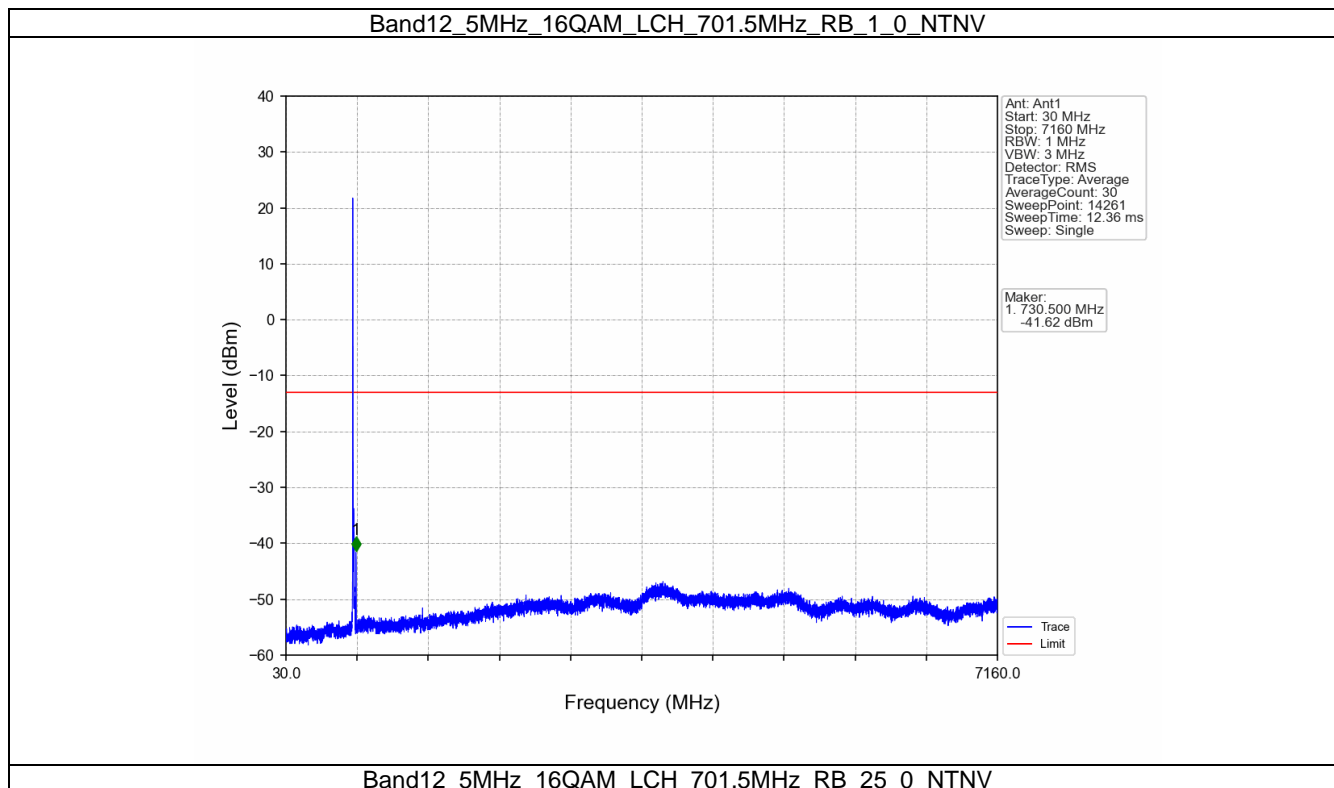


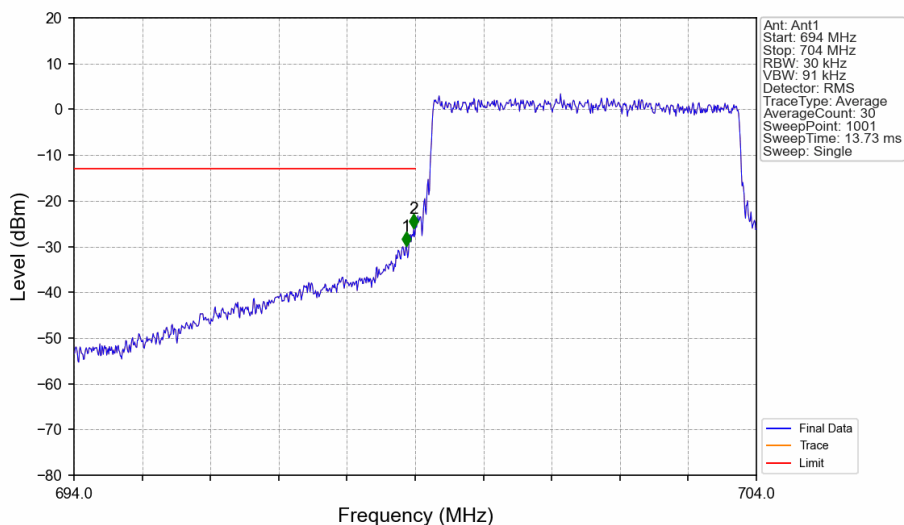
Band12\_5MHz\_16QAM\_LCH\_701.5MHz\_RB\_1\_0\_NTNV





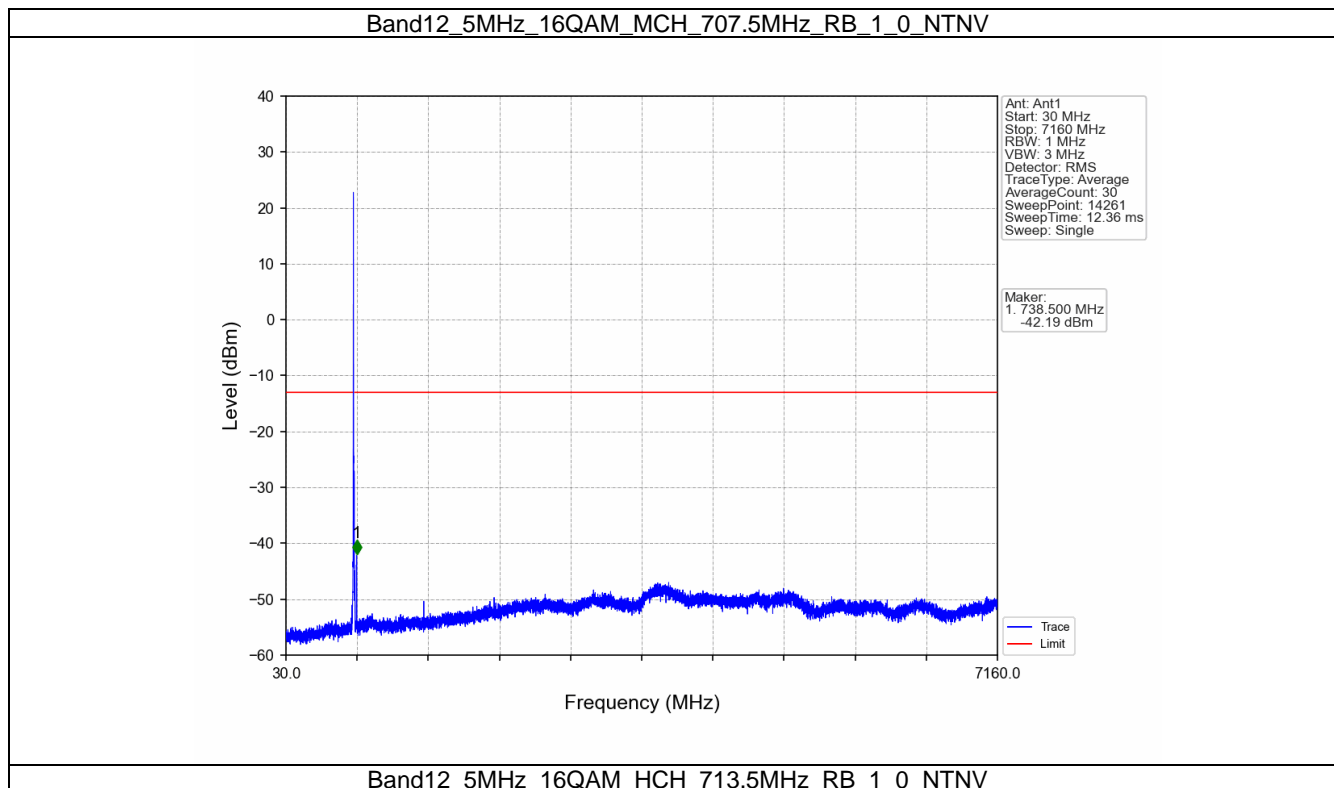






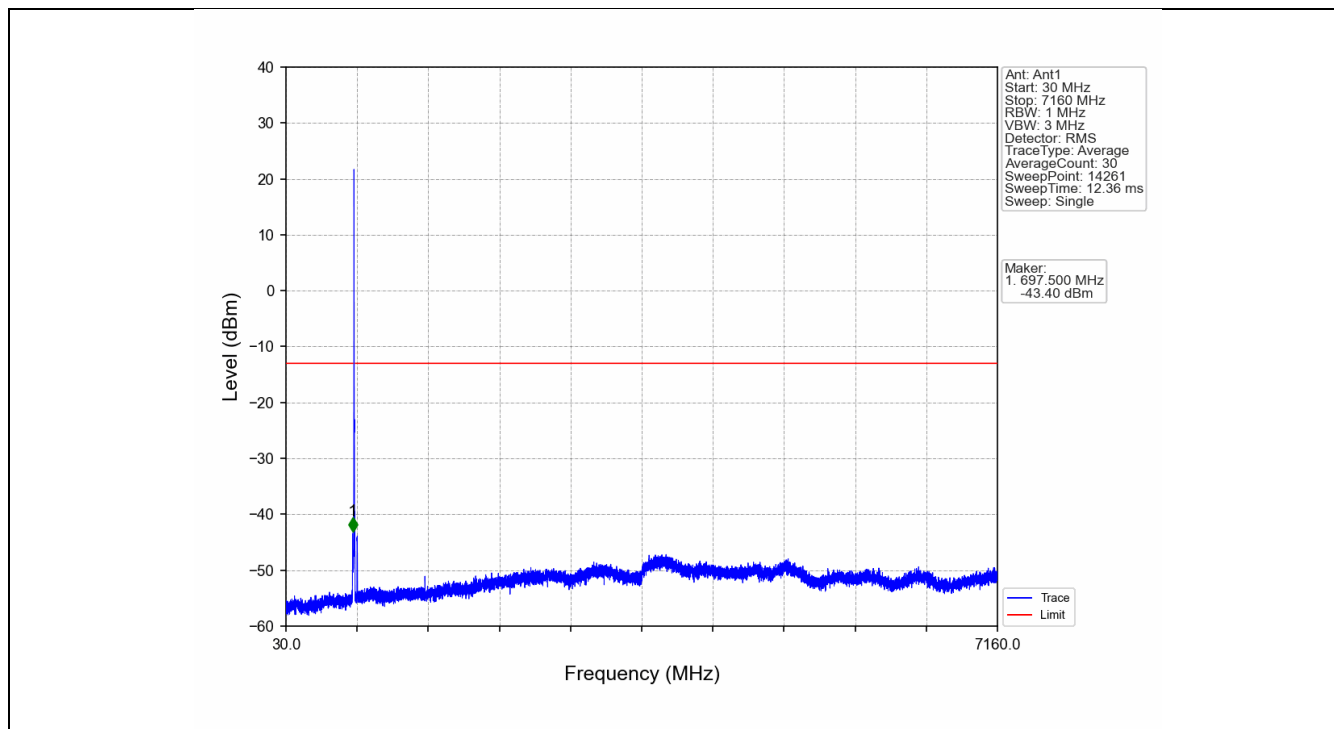
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	698.9	0.1	/	1	698.870	-29.94	-13	Pass
698.9	699	0.03	/	2	698.980	-26.04	-13	Pass
699	704	0.03	/	/	/	/	/	/



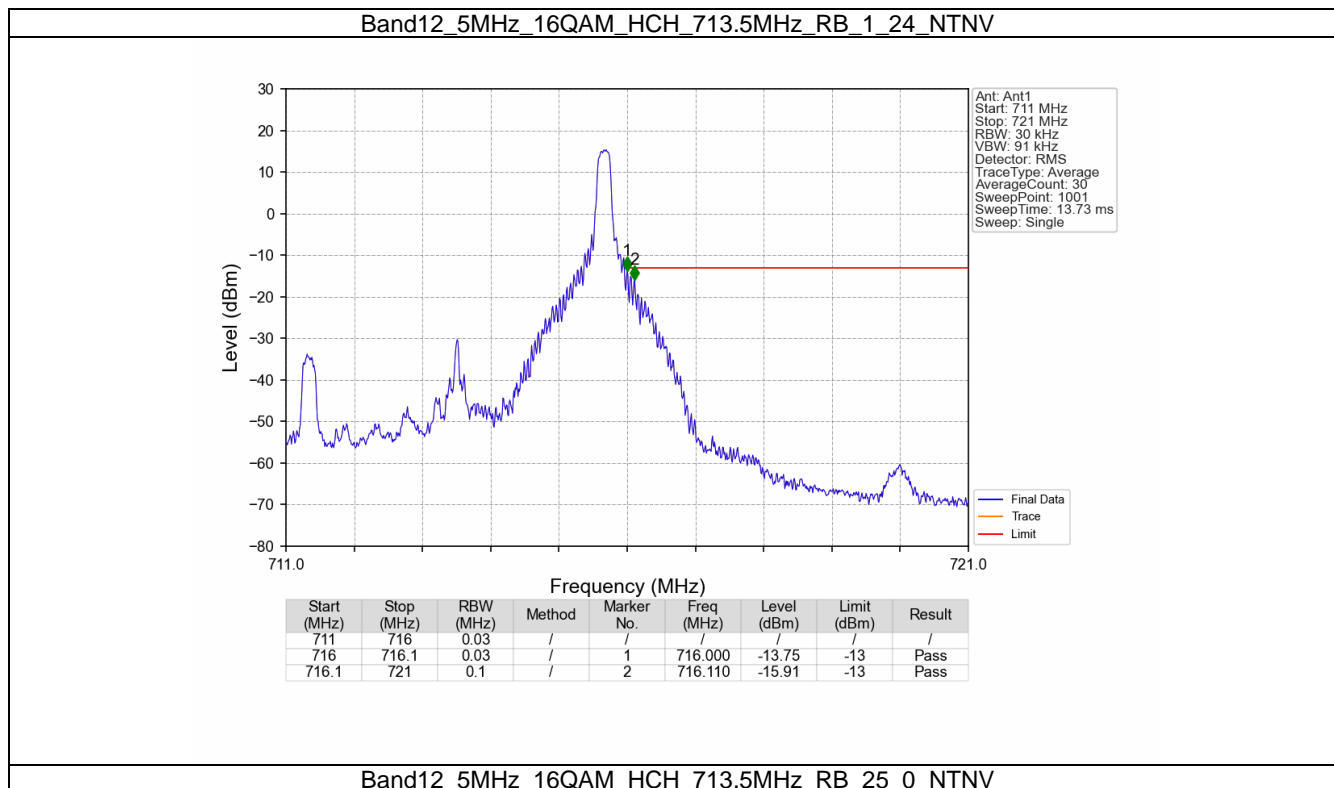


Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_1\_0\_NTNV



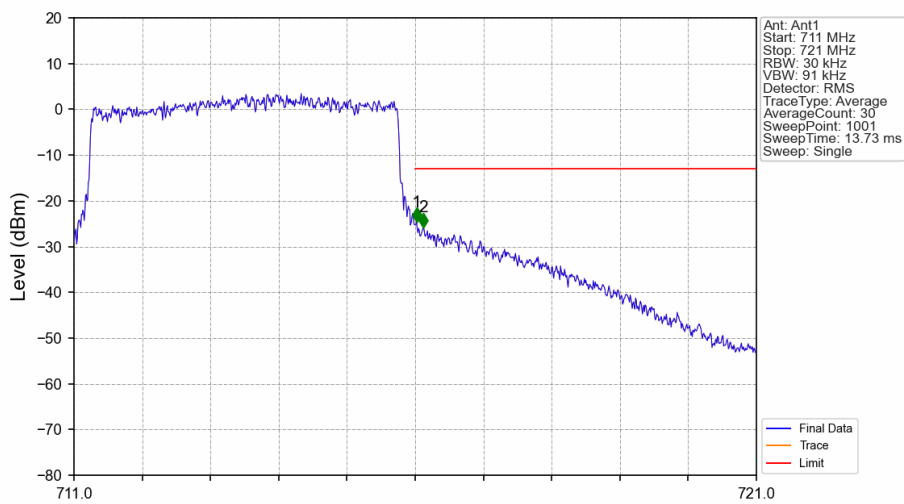






Band12\_5MHz\_16QAM\_HCH\_713.5MHz\_RB\_25\_0\_NTNV





Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.020	-24.66	-13	Pass
716.1	721	0.1	/	2	716.120	-25.77	-13	Pass



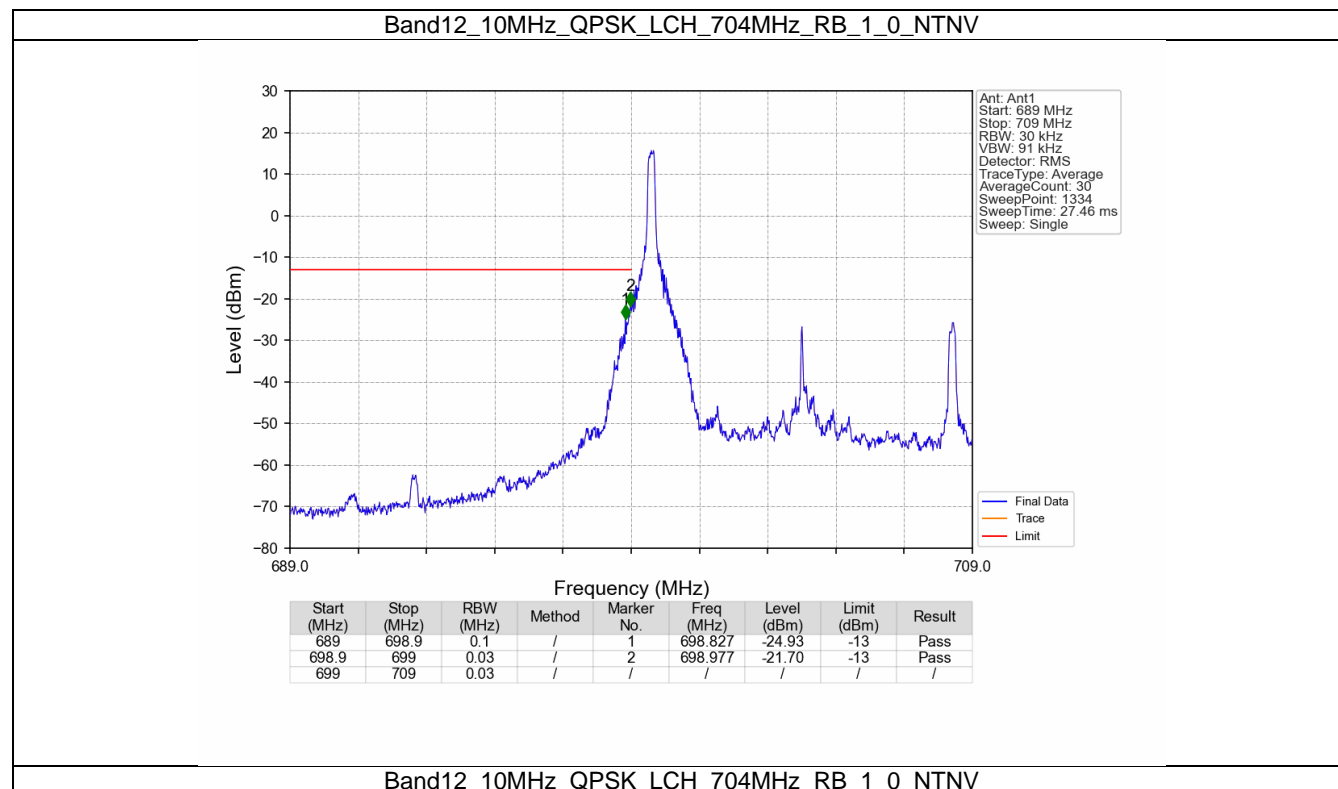
### 1.4 B12\_10MHz

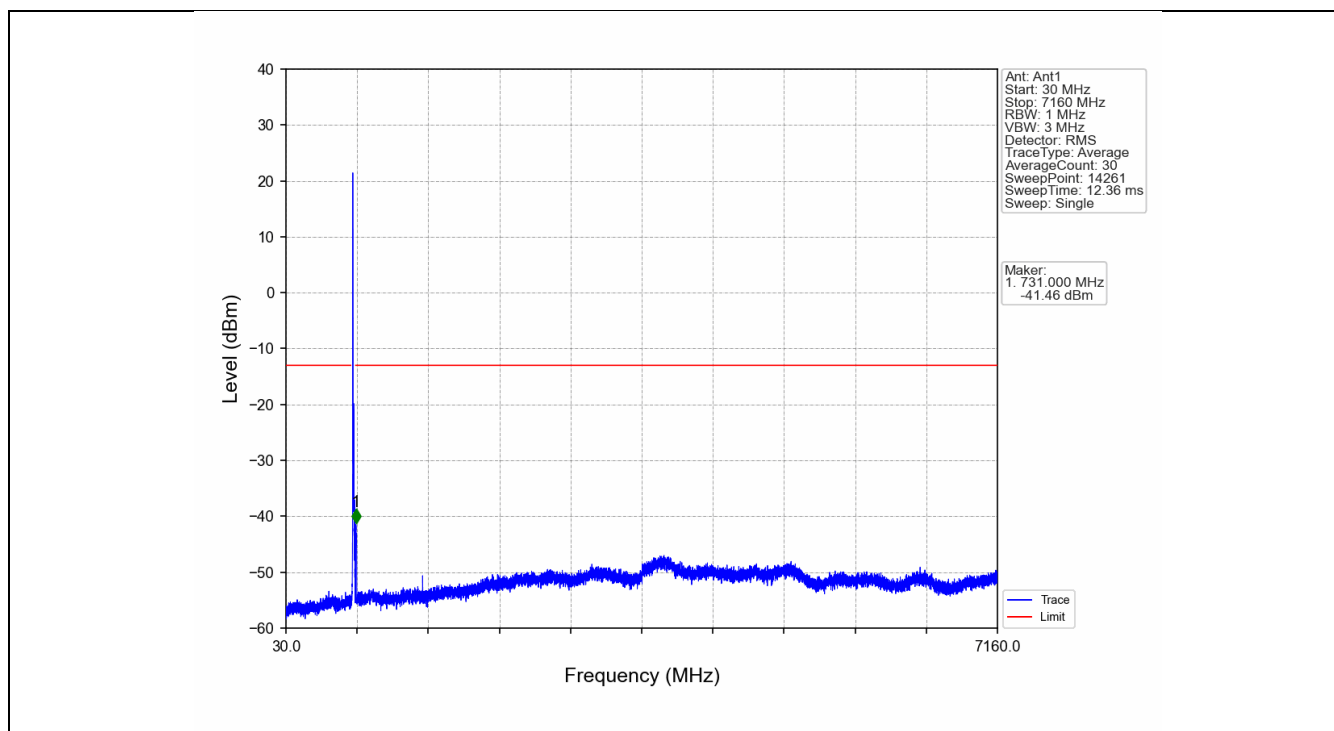
#### 1.4.1 Test Result

Band: 12 / Bandwidth: 10MHz / NTNV						
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
		1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
			50	0	Refer To Test Graph	

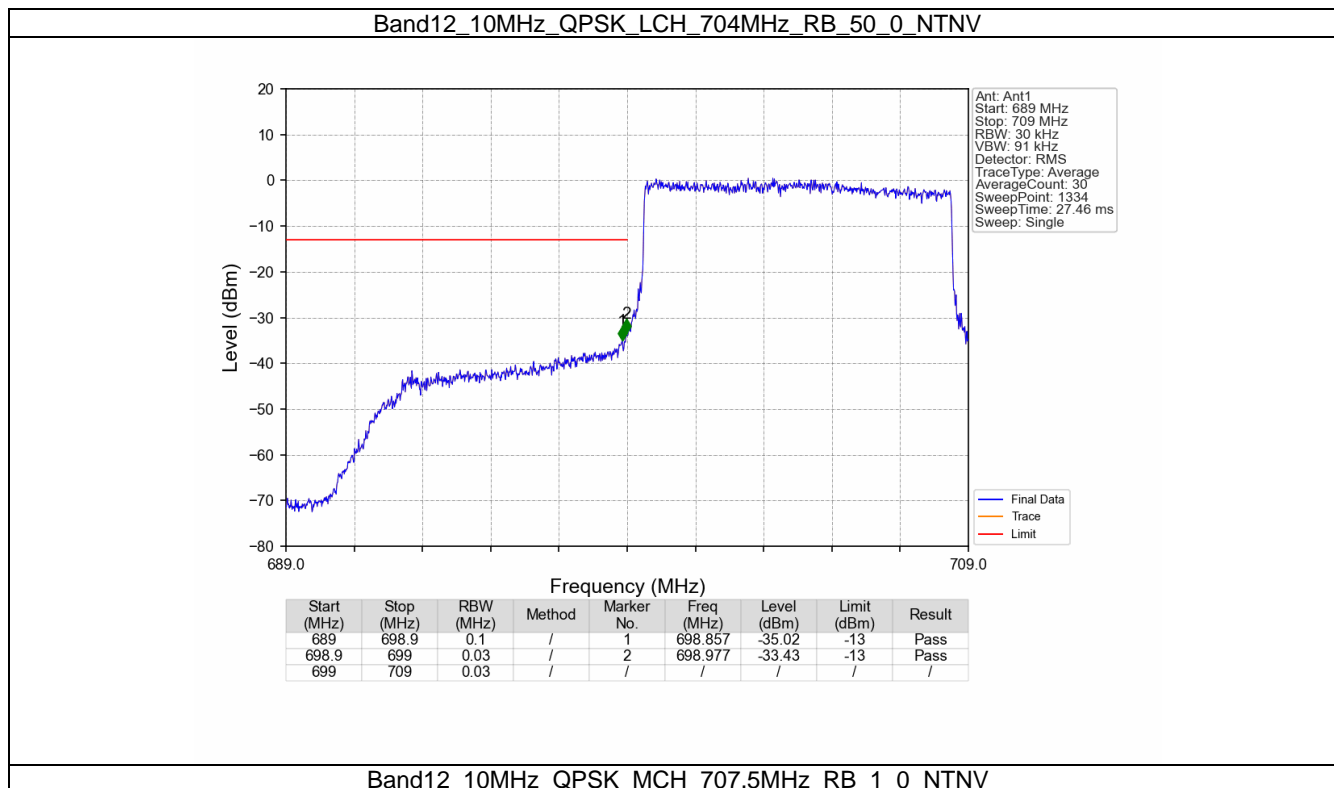


### 1.4.2 Test Graph



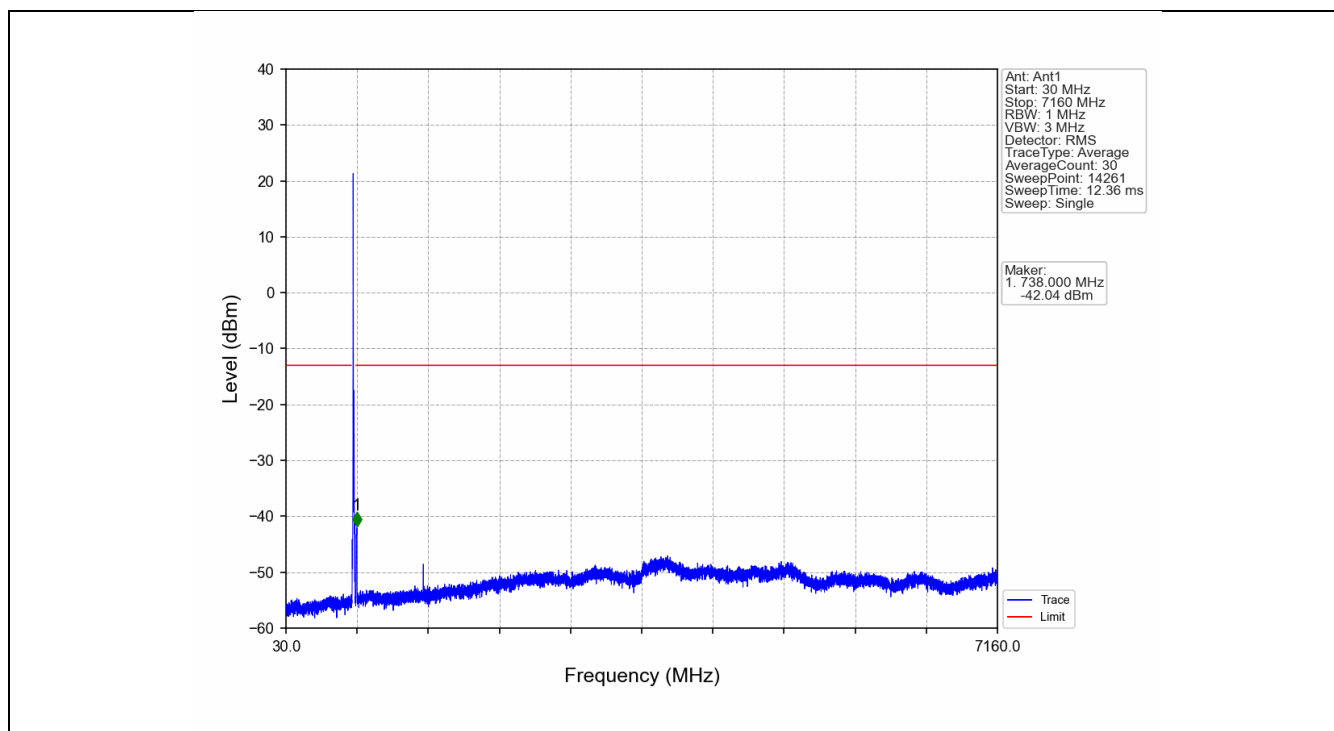


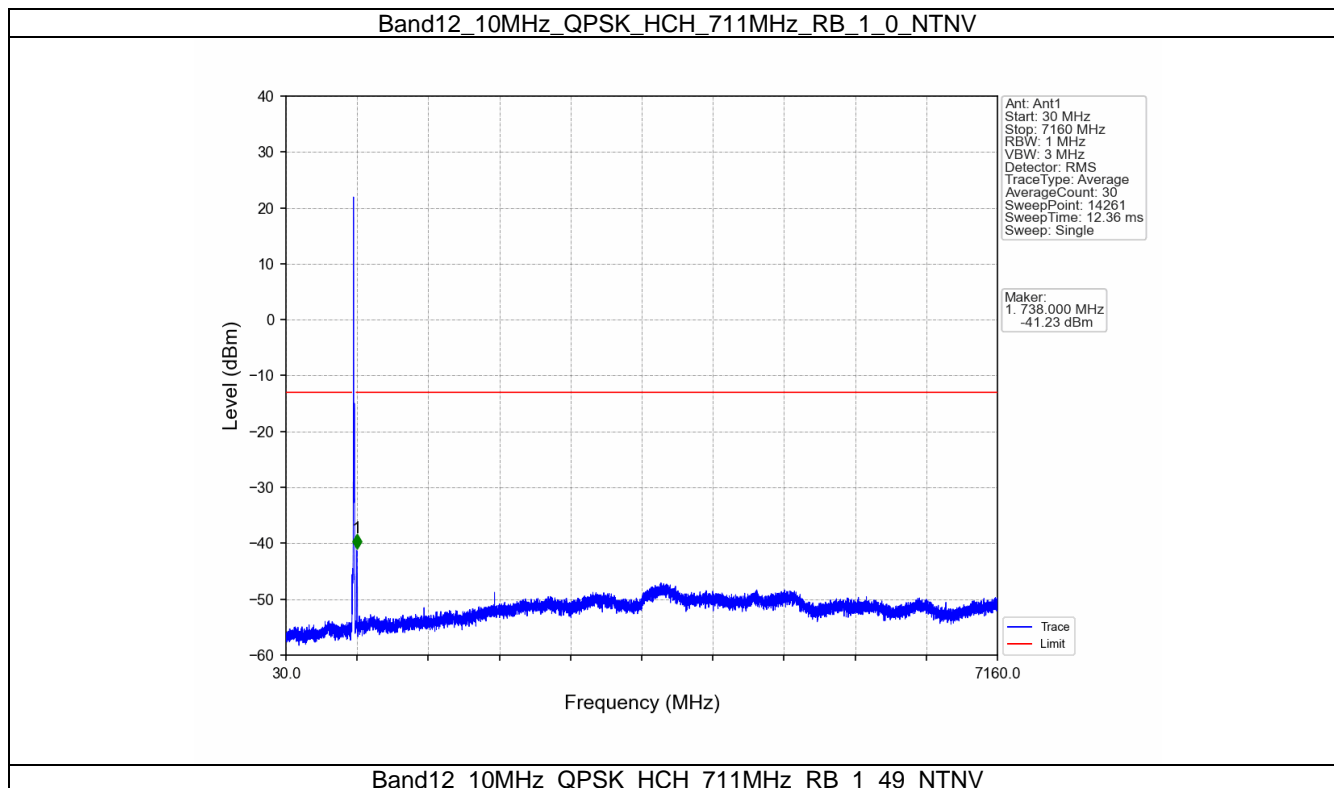


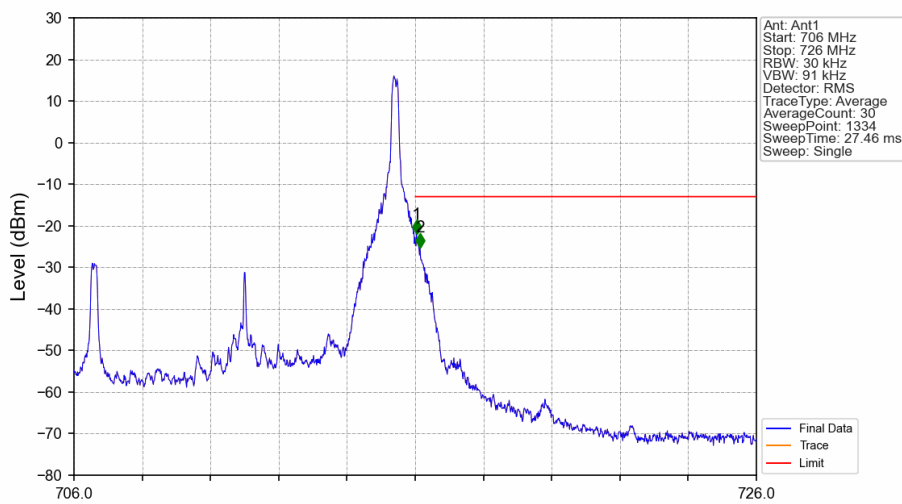


Band12\_10MHz\_QPSK\_MCH\_707.5MHz\_RB\_1\_0\_NTNV



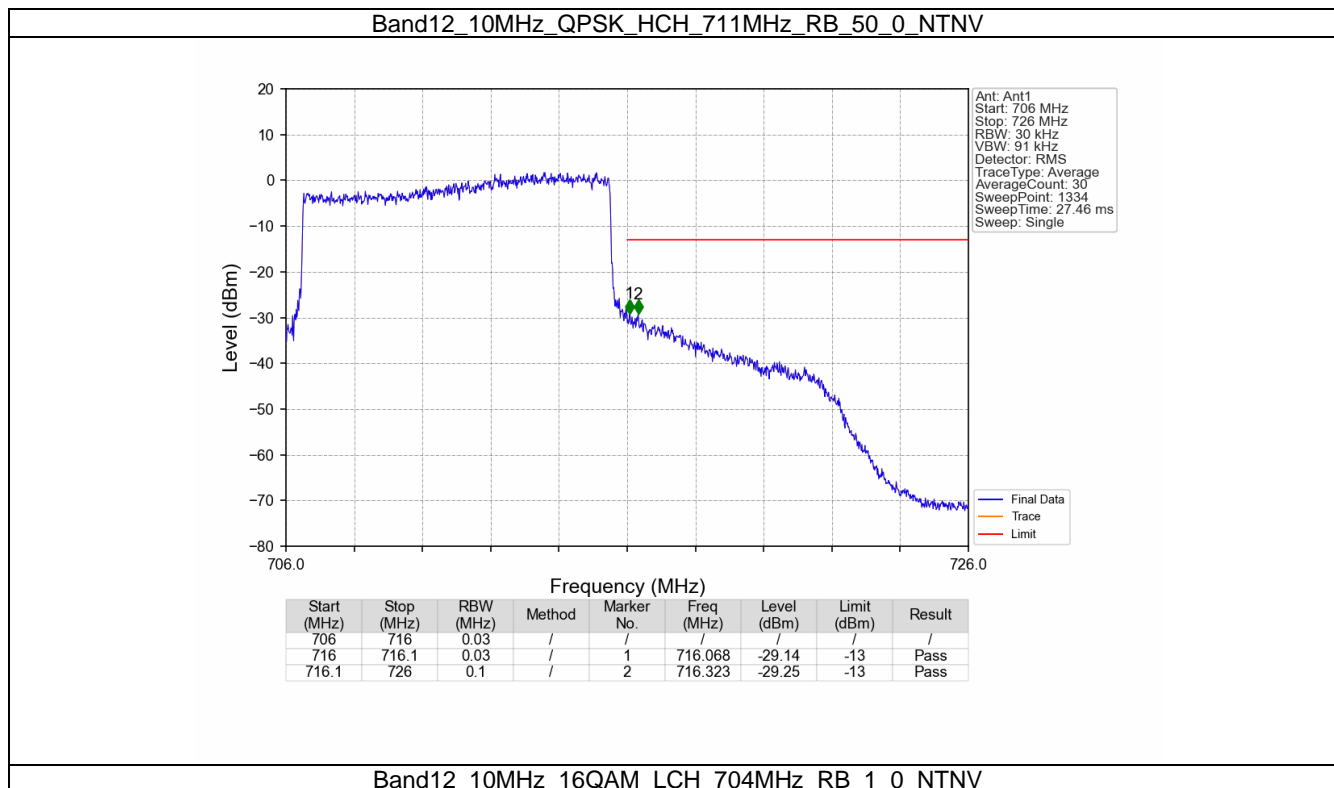






Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.038	-22.01	-13	Pass
716.1	726	0.1	/	2	716.143	-25.20	-13	Pass

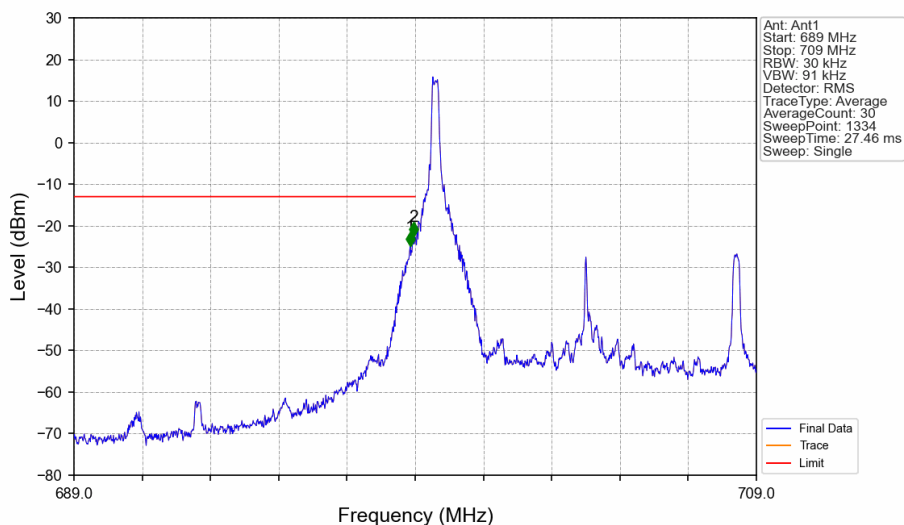




Band12\_10MHz\_16QAM\_LCH\_704MHz\_RB\_1\_0\_NTNV

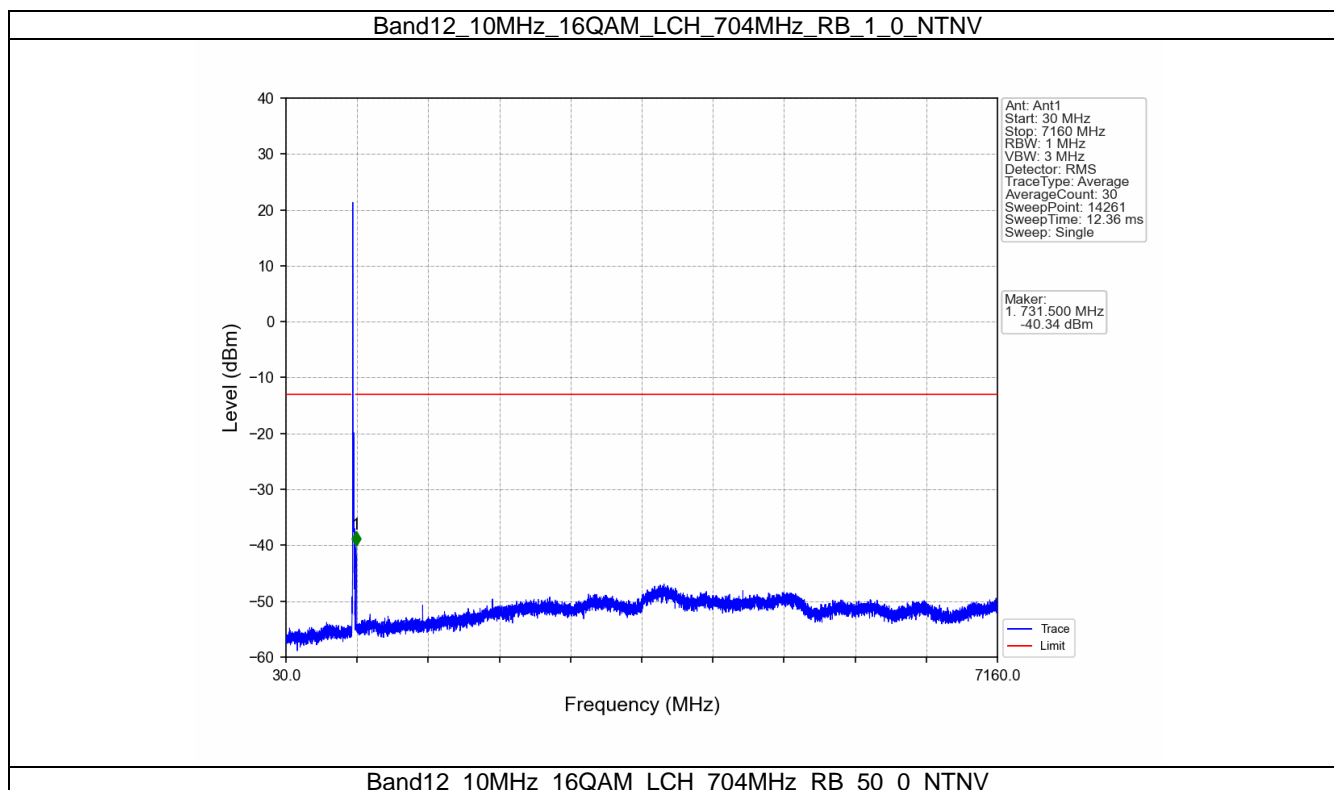






Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	/	1	698.857	-24.86	-13	Pass
698.9	699	0.03	/	2	698.947	-22.67	-13	Pass
699	709	0.03	/	/	/	/	/	/



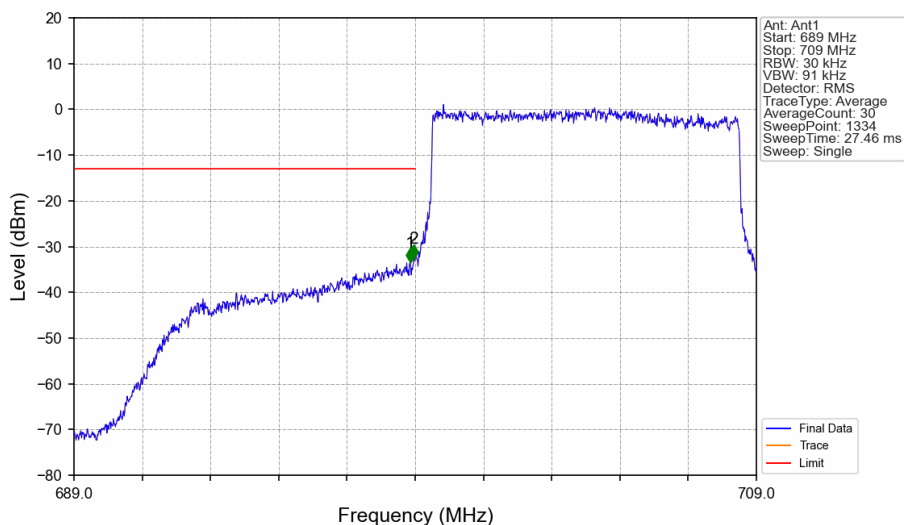


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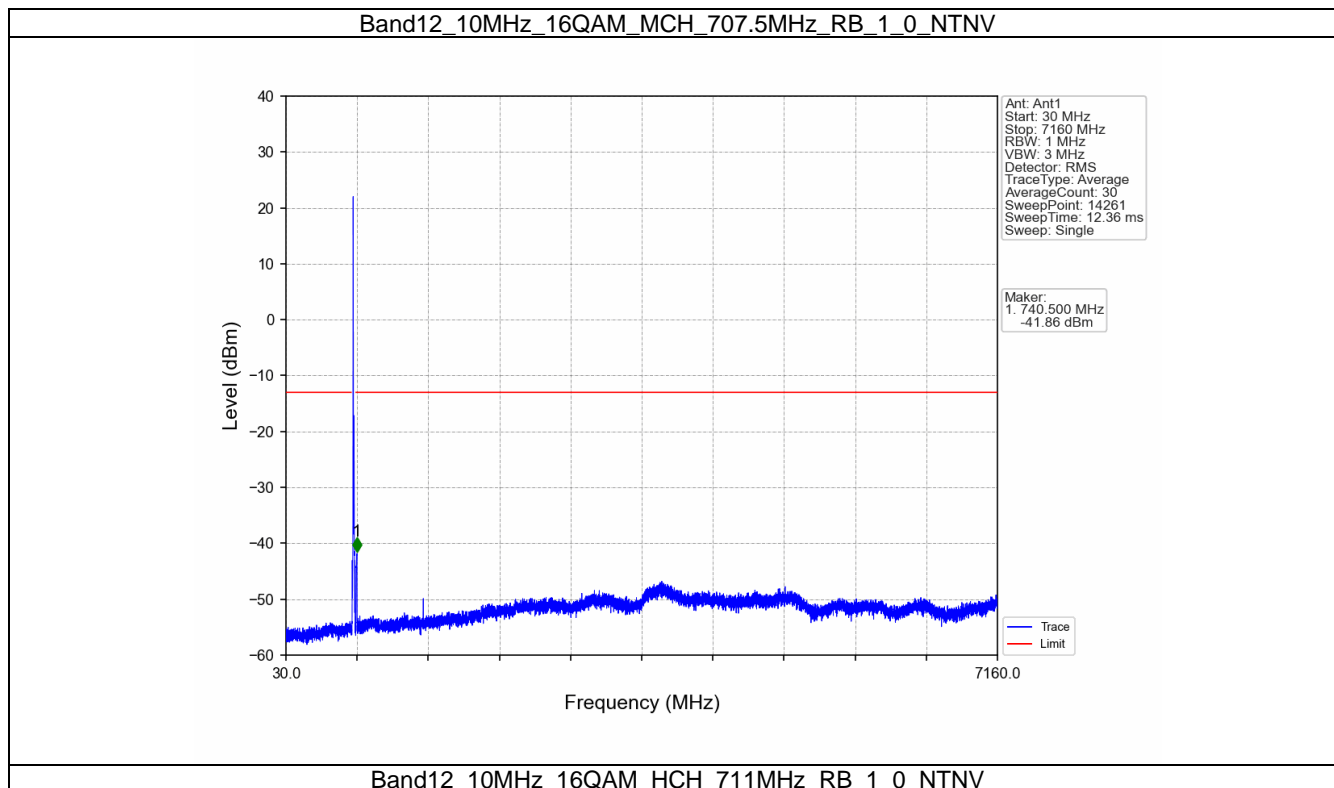
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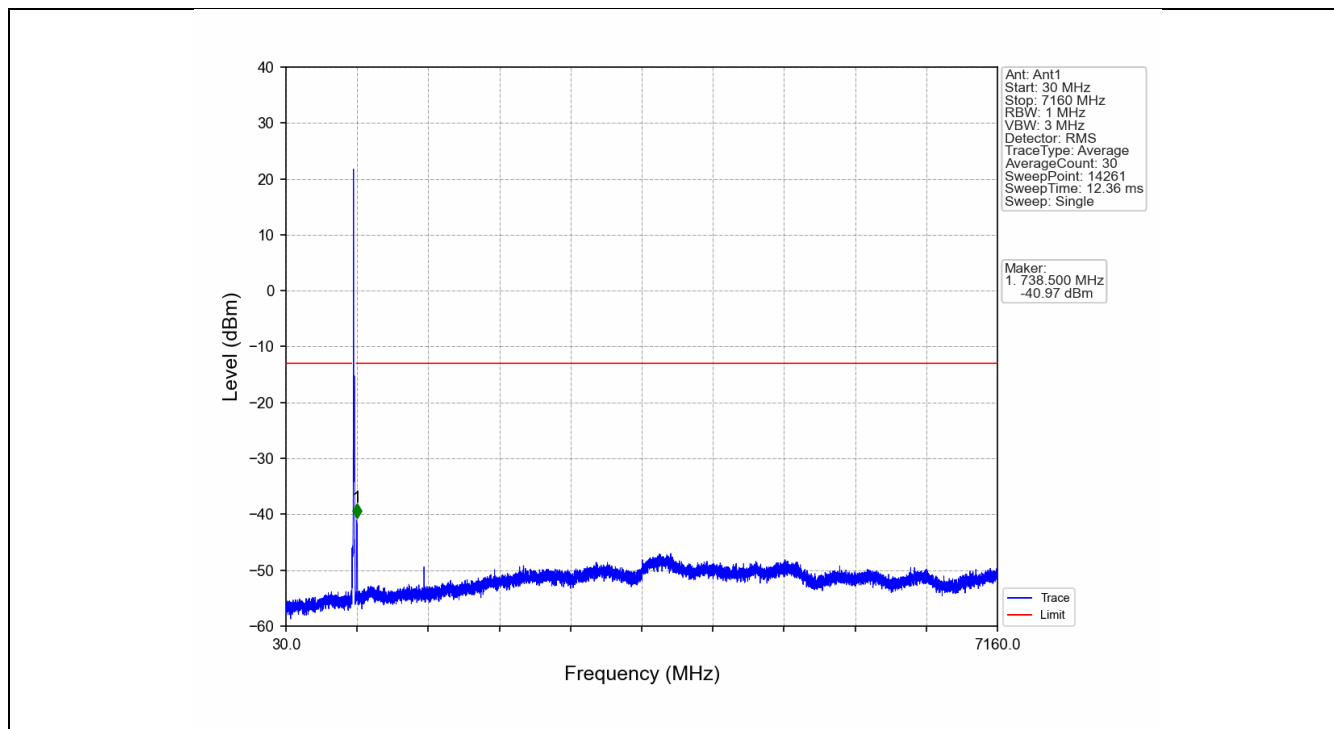
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
689	698.9	0.1	/	1	698.857	-33.50	-13	Pass
698.9	699	0.03	/	2	698.962	-32.64	-13	Pass
699	709	0.03	/	/	/	/	/	/



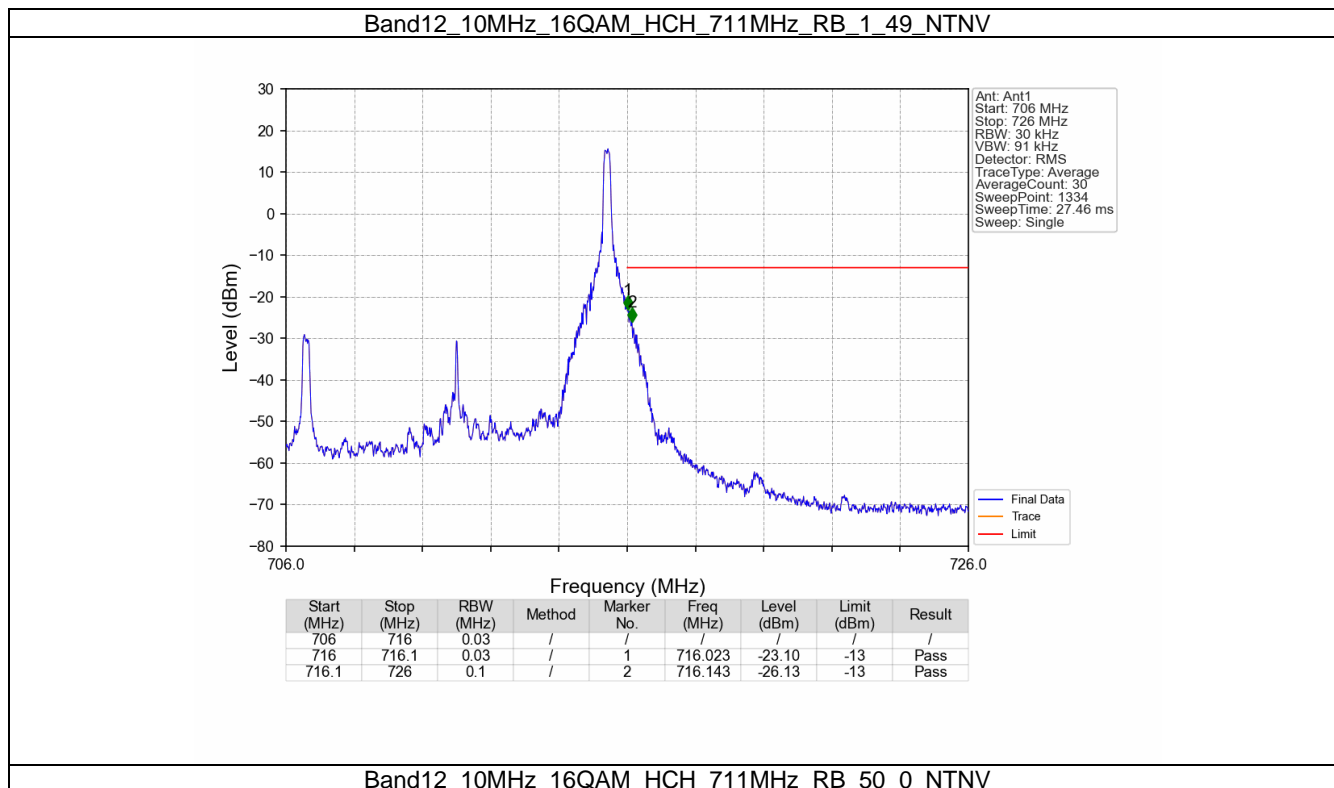


Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_1\_0\_NTNV



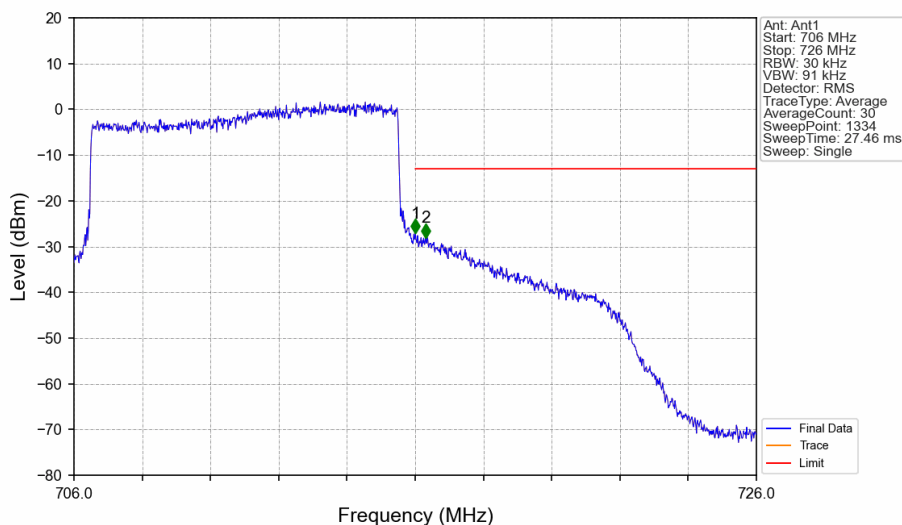






Band12\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV





Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	1	716.008	-27.11	-13	Pass
716.1	726	0.1	/	2	716.308	-28.05	-13	Pass



## 2. Spurious Emission

### 2.1 B13\_5MHz

#### 2.1.1 Test Result

Band: 13 / Bandwidth: 5MHz / NTN					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	779.5	1	0	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass
	782	1	0	Refer To Test Graph	Pass
	784.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass
16QAM	779.5	1	0	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass
	782	1	0	Refer To Test Graph	Pass
	784.5	1	0	Refer To Test Graph	Pass
			24	Refer To Test Graph	Pass
		25	0	Refer To Test Graph	Pass



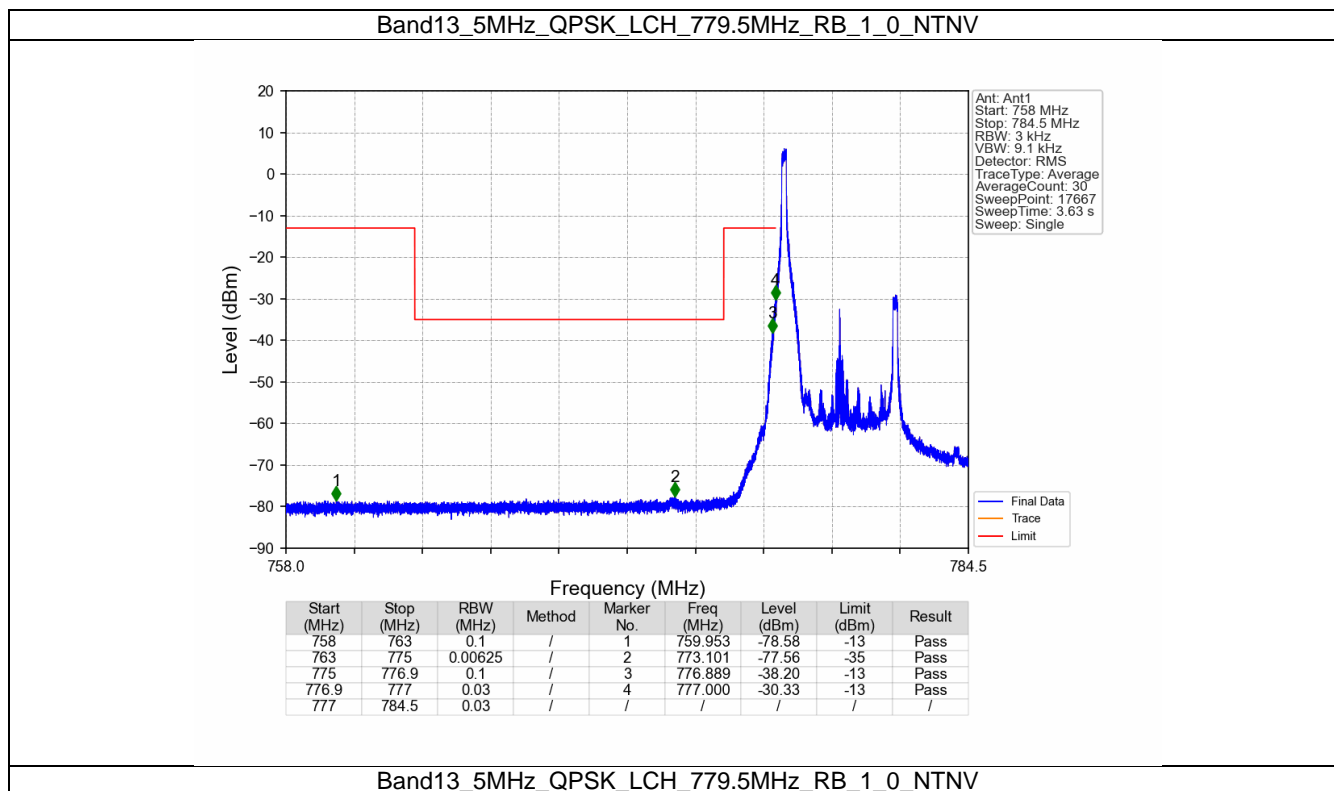
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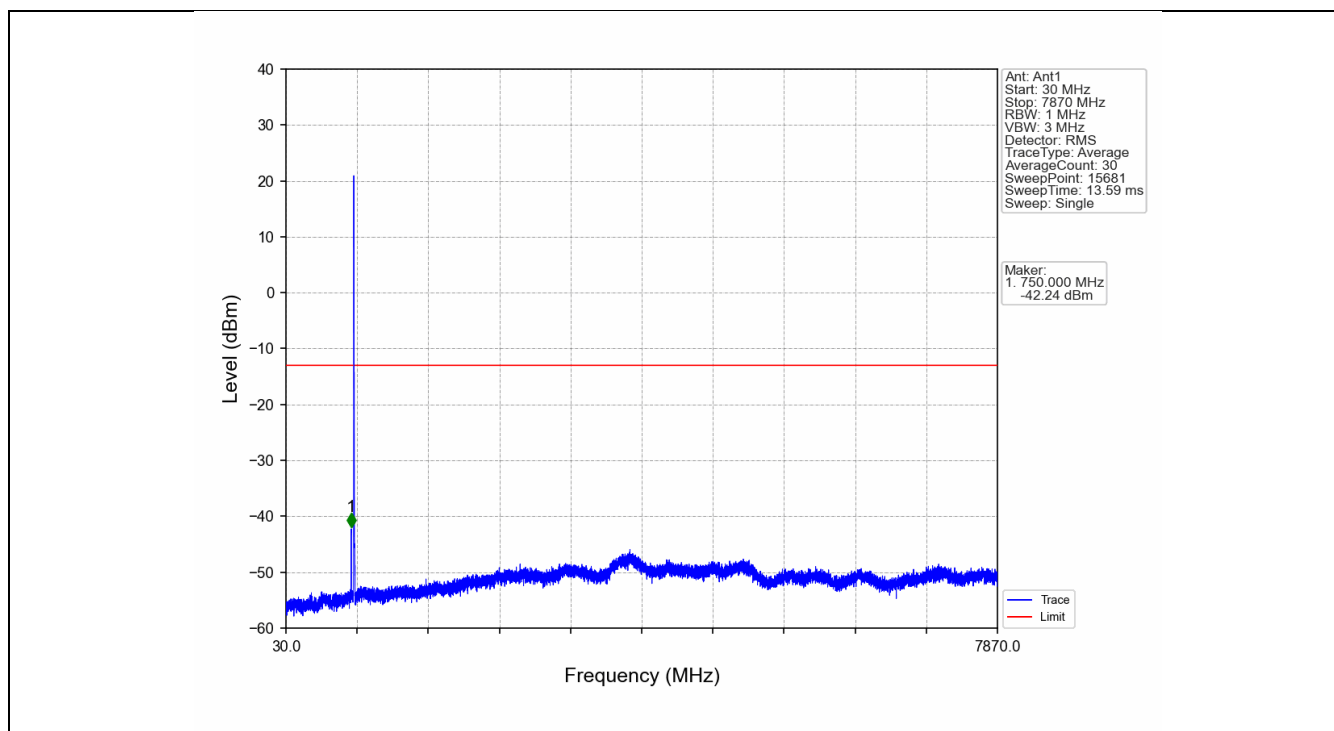
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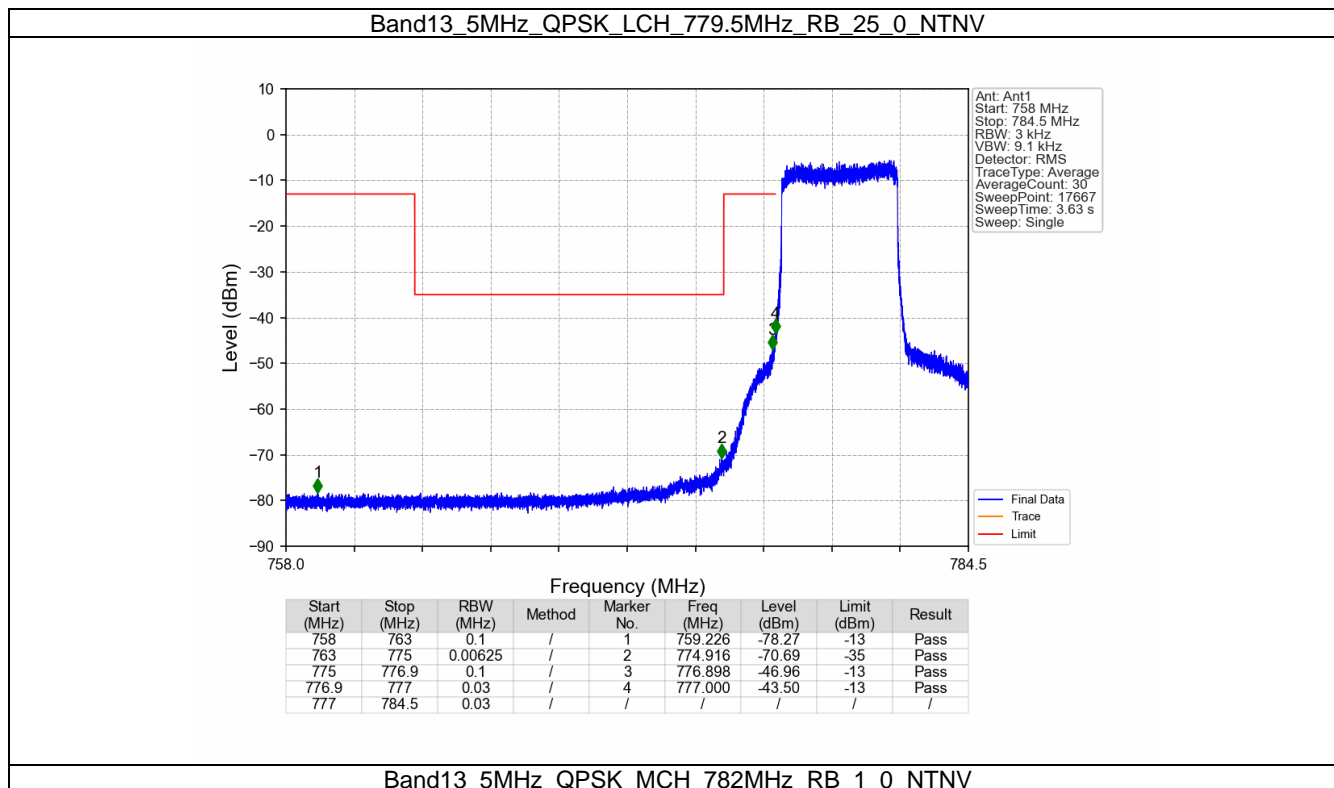
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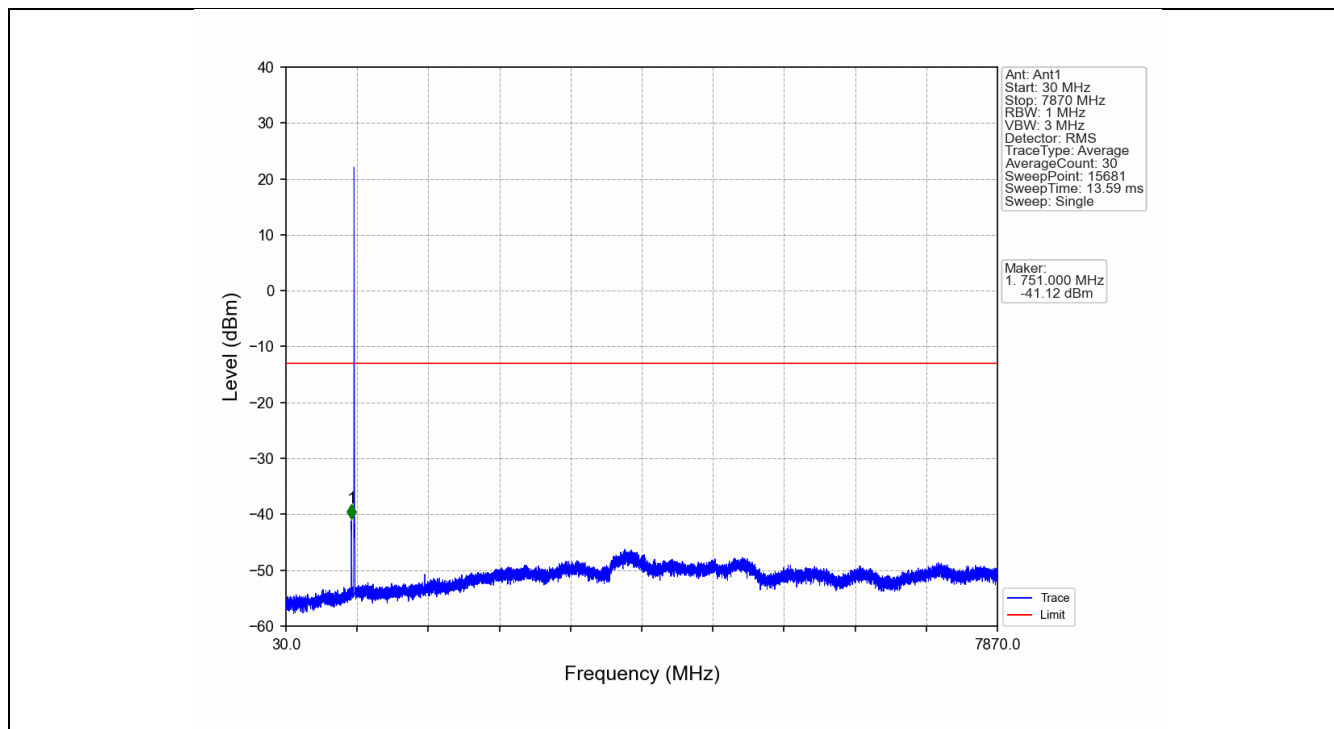
### 2.1.2 Test Graph

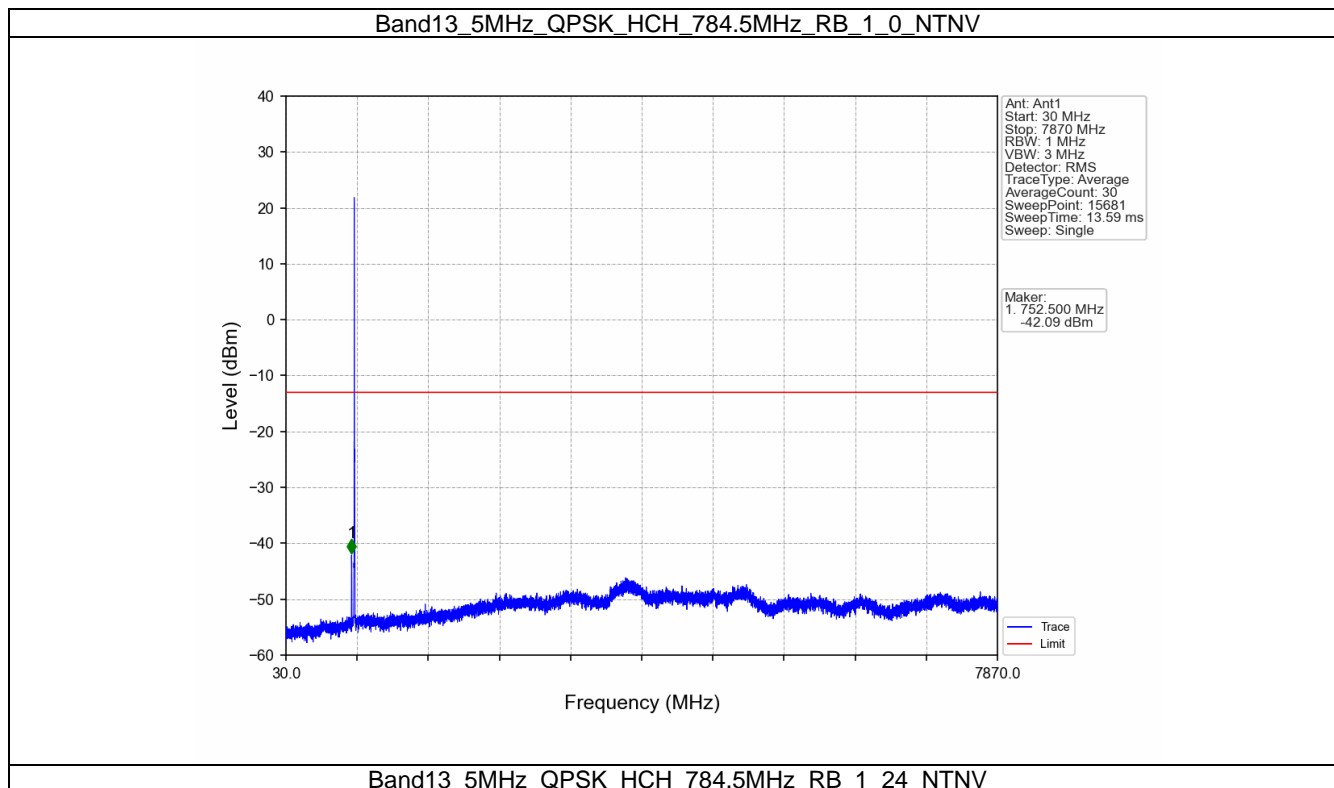


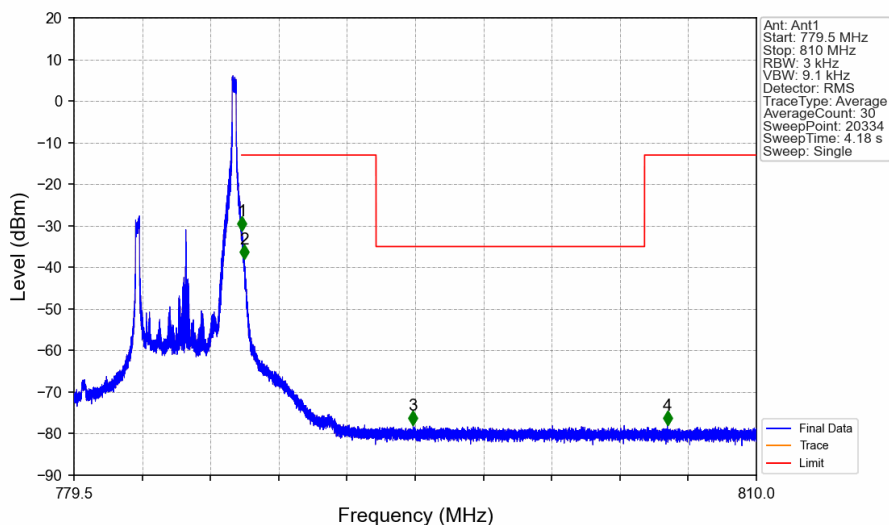






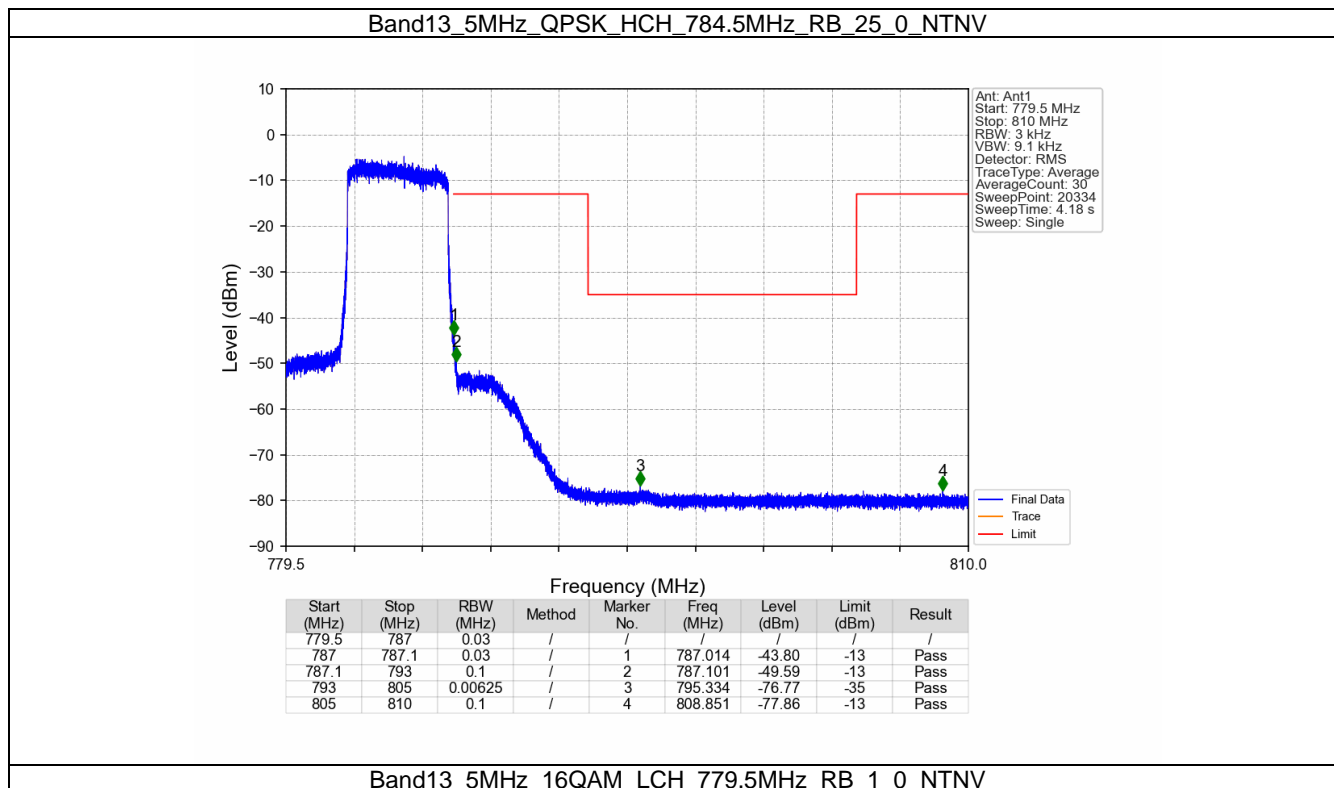




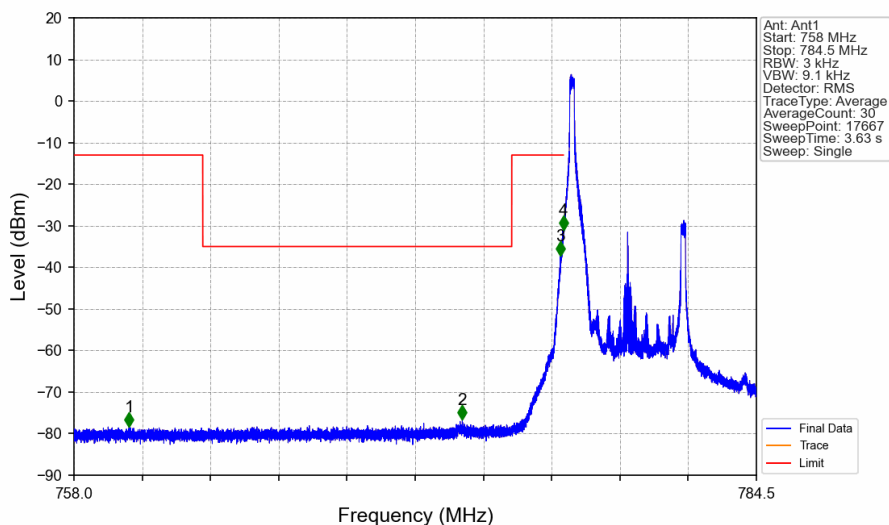


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.009	-31.28	-13	Pass
787.1	793	0.1	/	2	787.108	-38.04	-13	Pass
793	805	0.00625	/	3	794.658	-77.97	-35	Pass
805	810	0.1	/	4	806.022	-77.93	-13	Pass



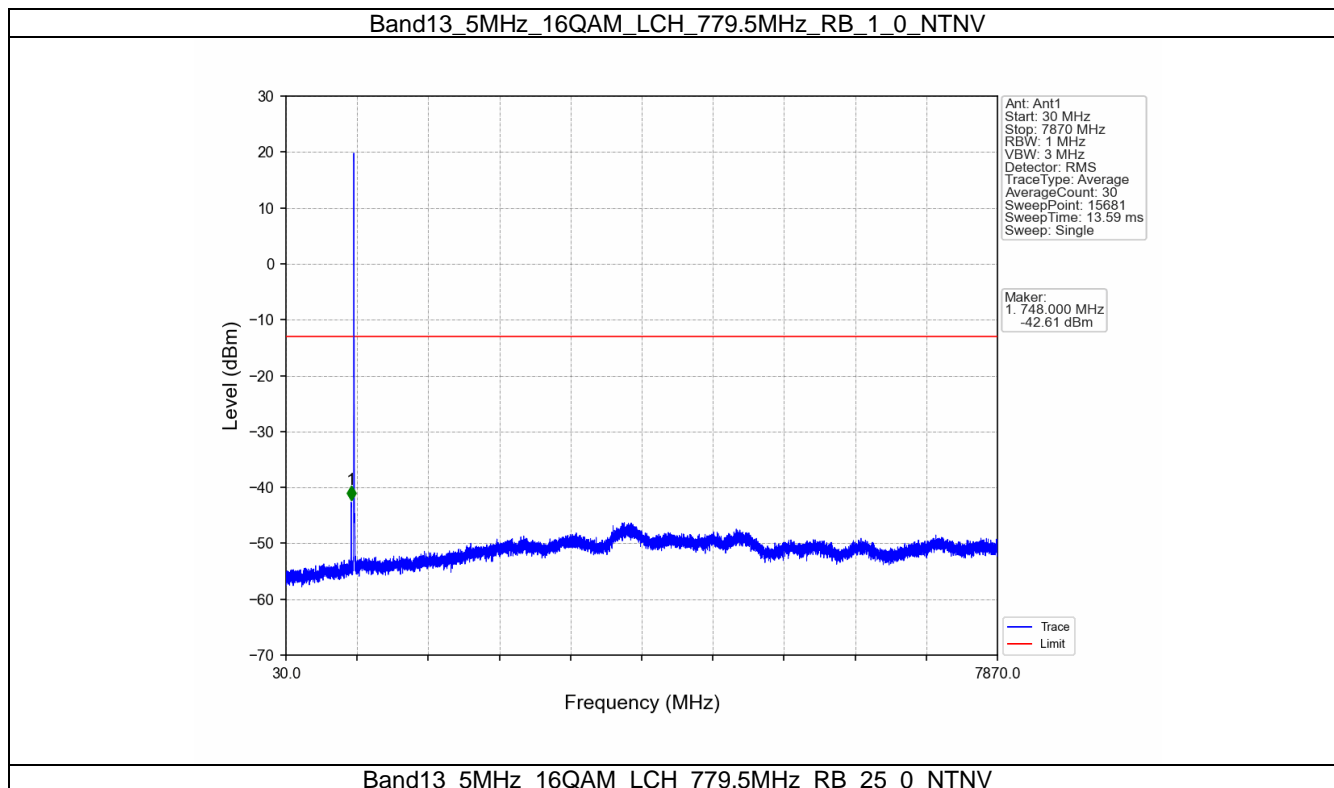






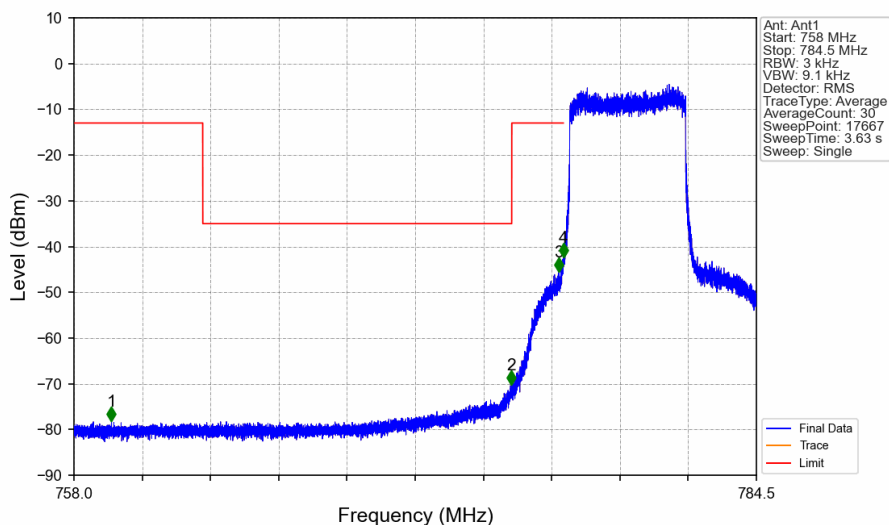
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	/	1	760.141	-78.37	-13	Pass
763	775	0.00625	/	2	773.080	-76.68	-35	Pass
775	776.9	0.1	/	3	776.890	-37.27	-13	Pass
776.9	777	0.03	/	4	777.000	-31.07	-13	Pass
777	784.5	0.03	/	/	/	/	/	/





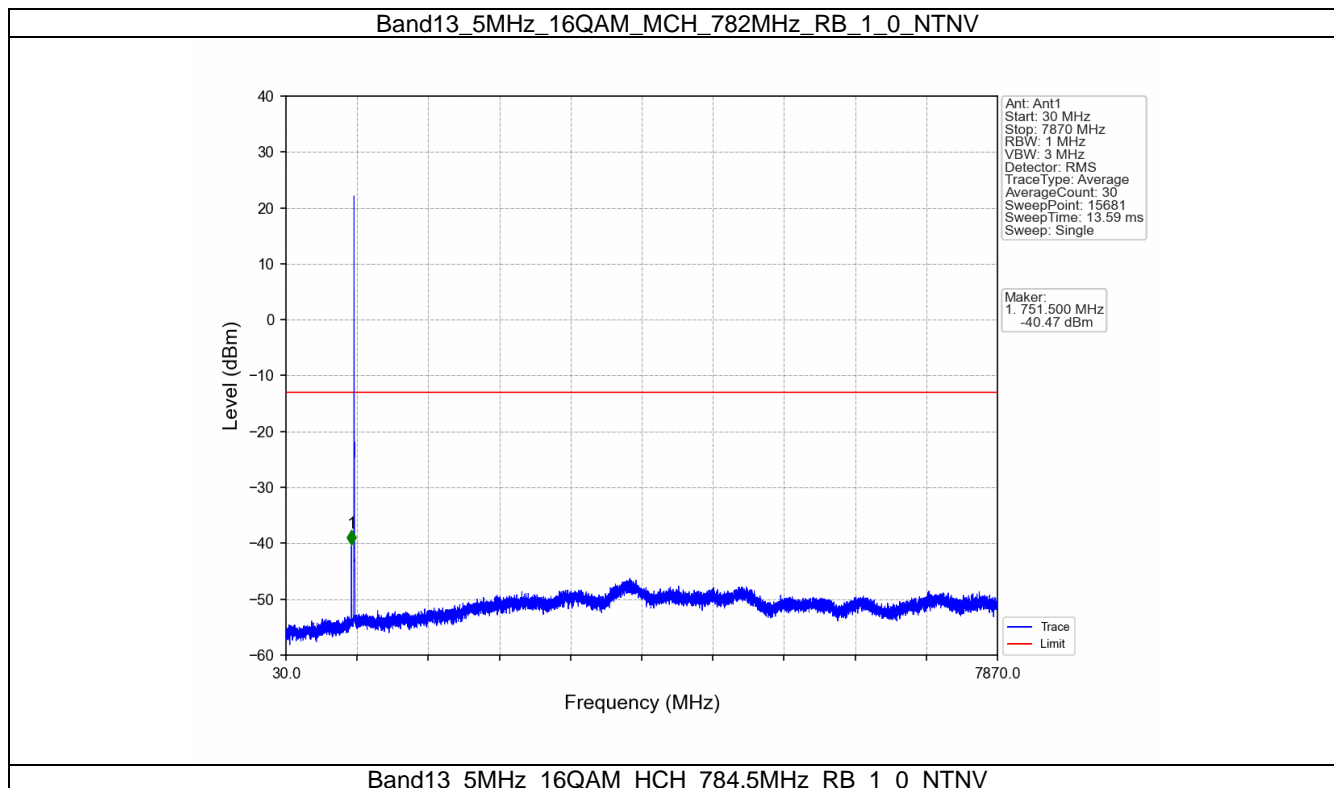
Band13\_5MHz\_16QAM\_LCH\_779.5MHz\_RB\_25\_0\_NTNV

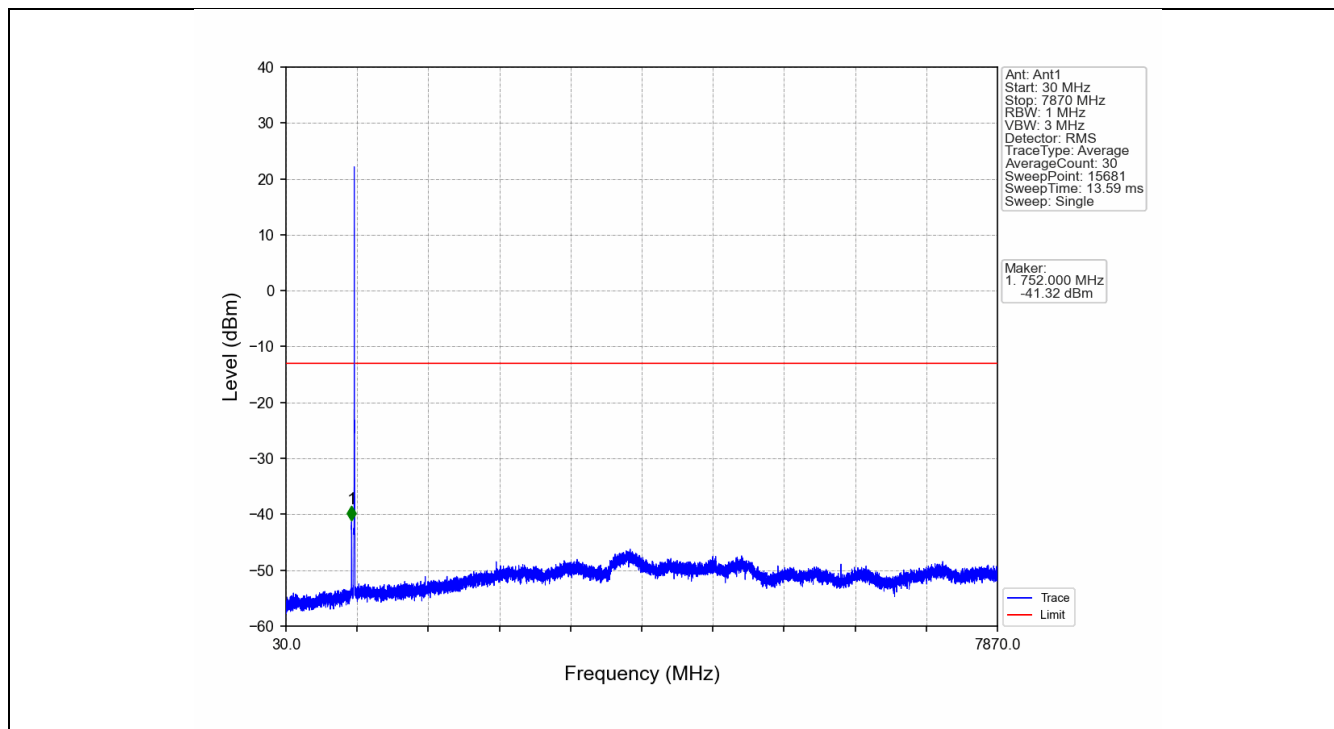




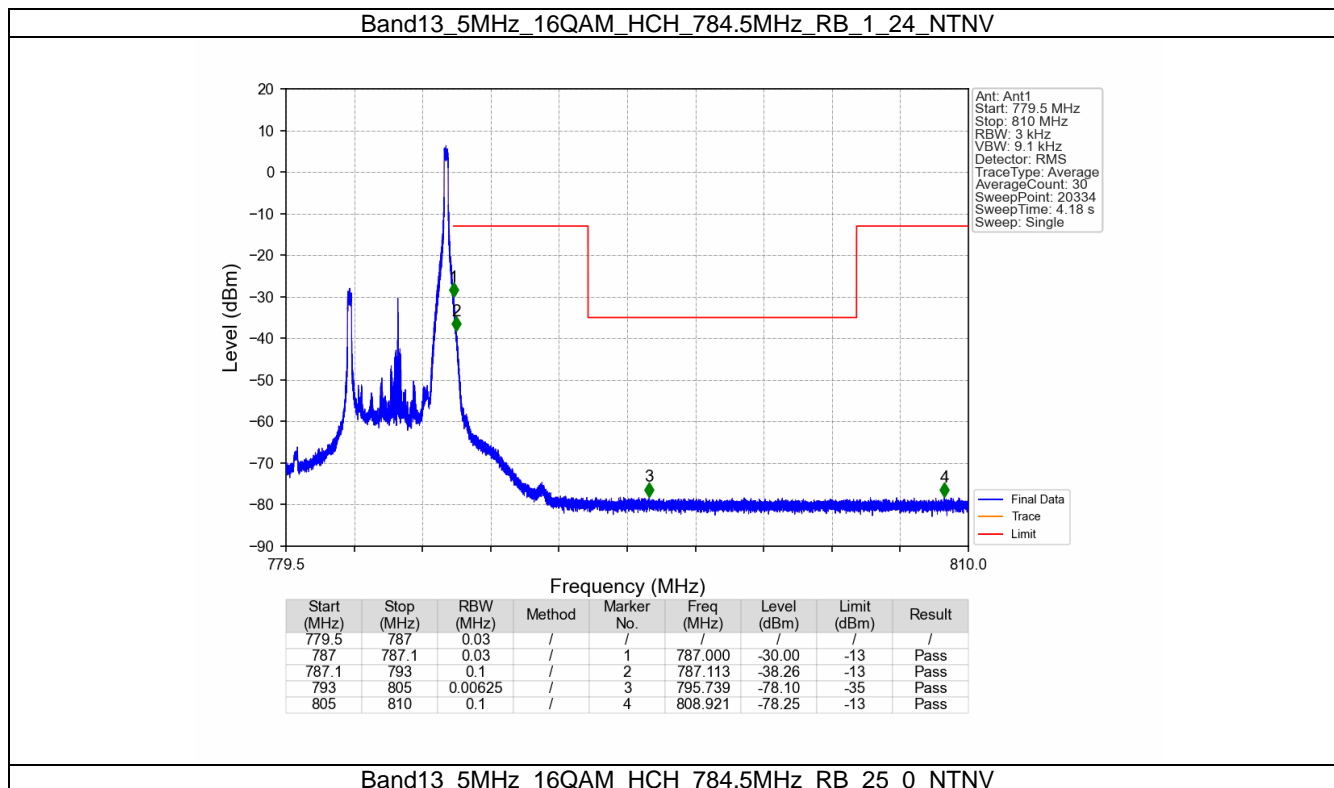
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	/	1	759.457	-78.16	-13	Pass
763	775	0.00625	/	2	774.991	-70.32	-35	Pass
775	776.9	0.1	/	3	776.838	-45.50	-13	Pass
776.9	777	0.03	/	4	776.998	-42.36	-13	Pass
777	784.5	0.03	/	/	/	/	/	/

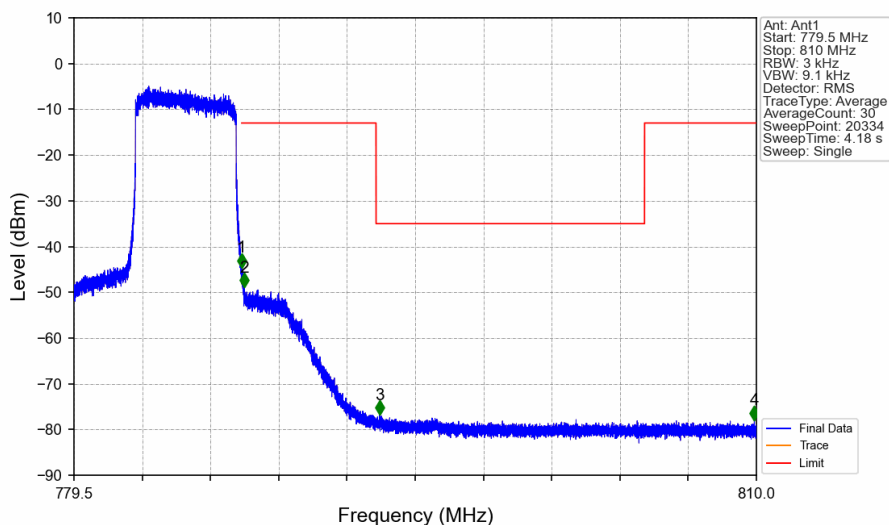












Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.000	-44.59	-13	Pass
787.1	793	0.1	/	2	787.101	-48.95	-13	Pass
793	805	0.00625	/	3	793.167	-76.80	-35	Pass
805	810	0.1	/	4	809.907	-77.94	-13	Pass





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### 2.2 B13\_10MHz

#### 2.2.1 Test Result

Band: 13 / Bandwidth: 10MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	782	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
16QAM	782	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass



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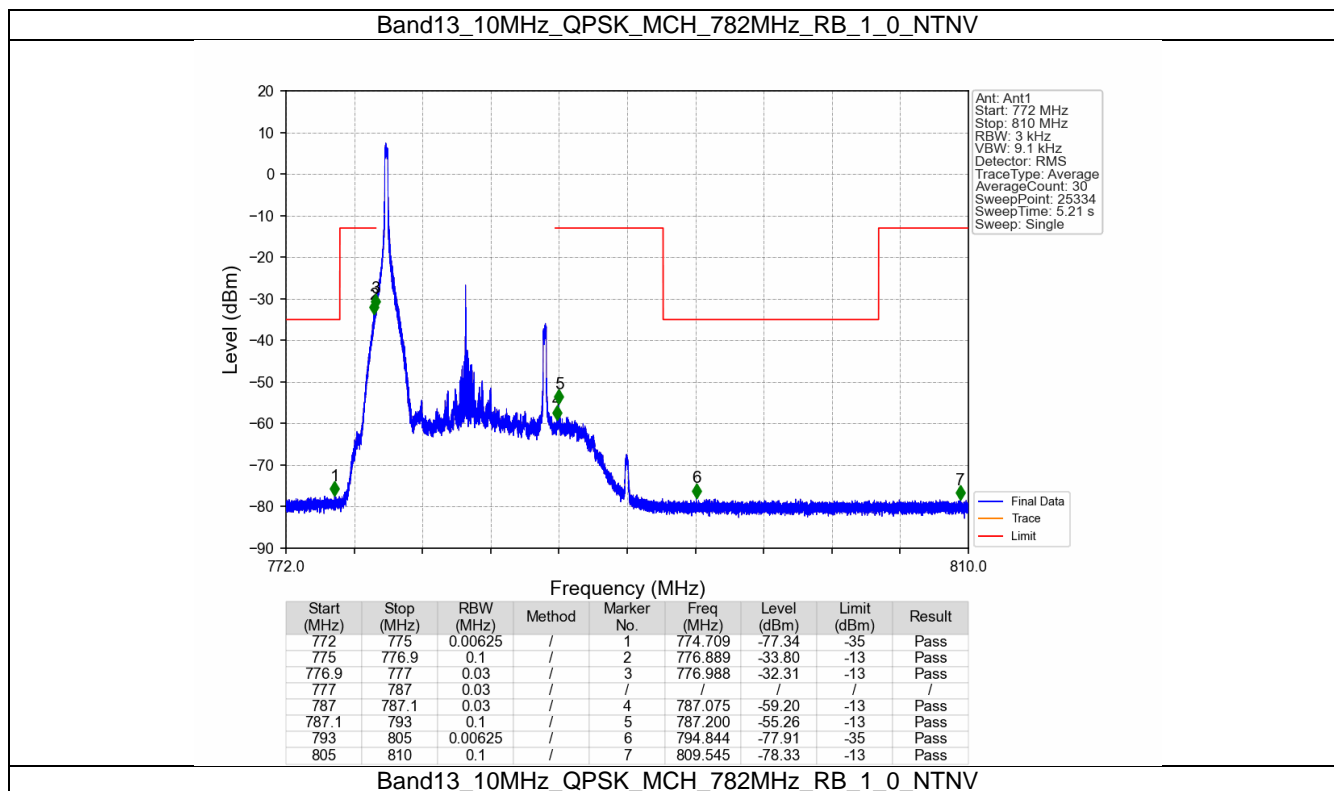
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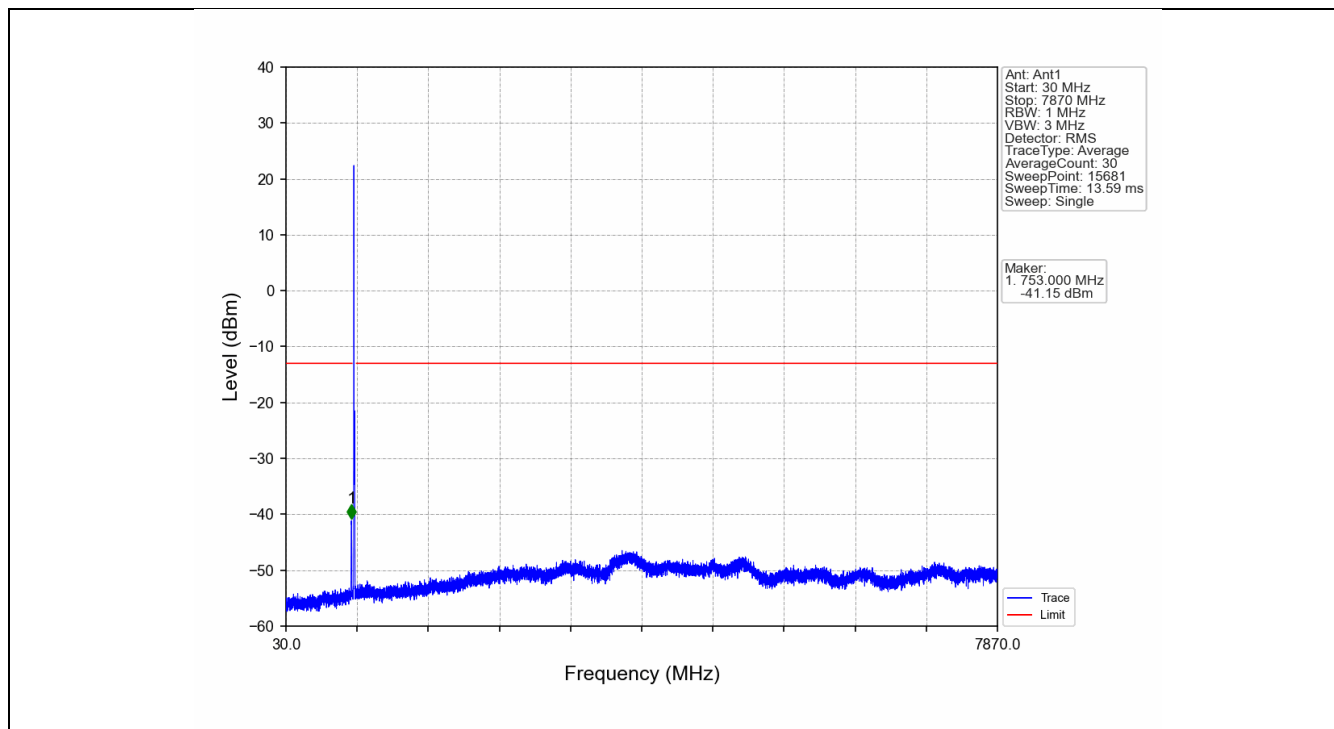
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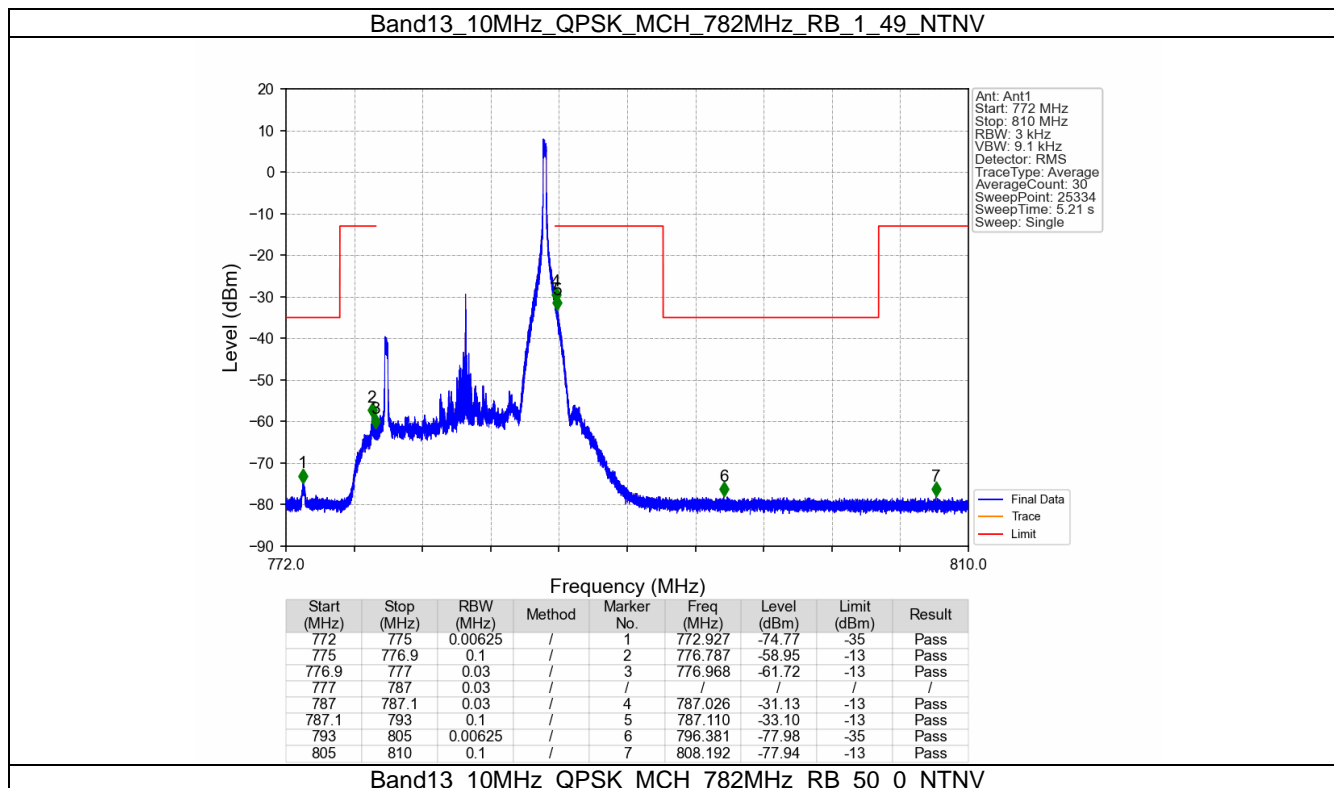
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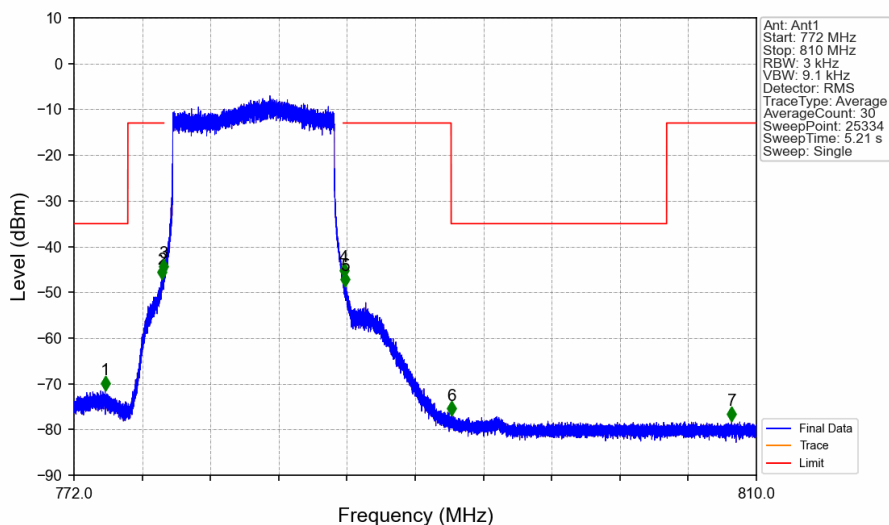
### 2.2.2 Test Graph





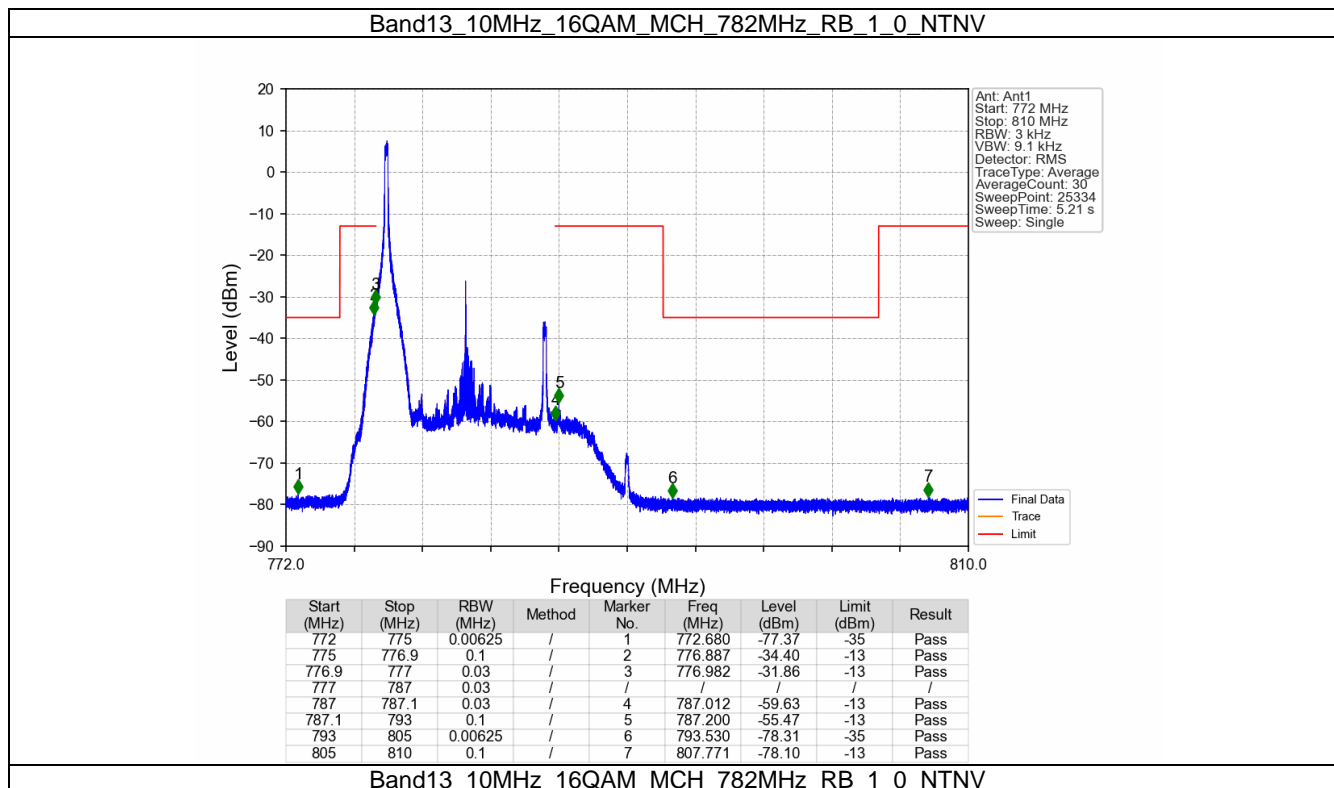


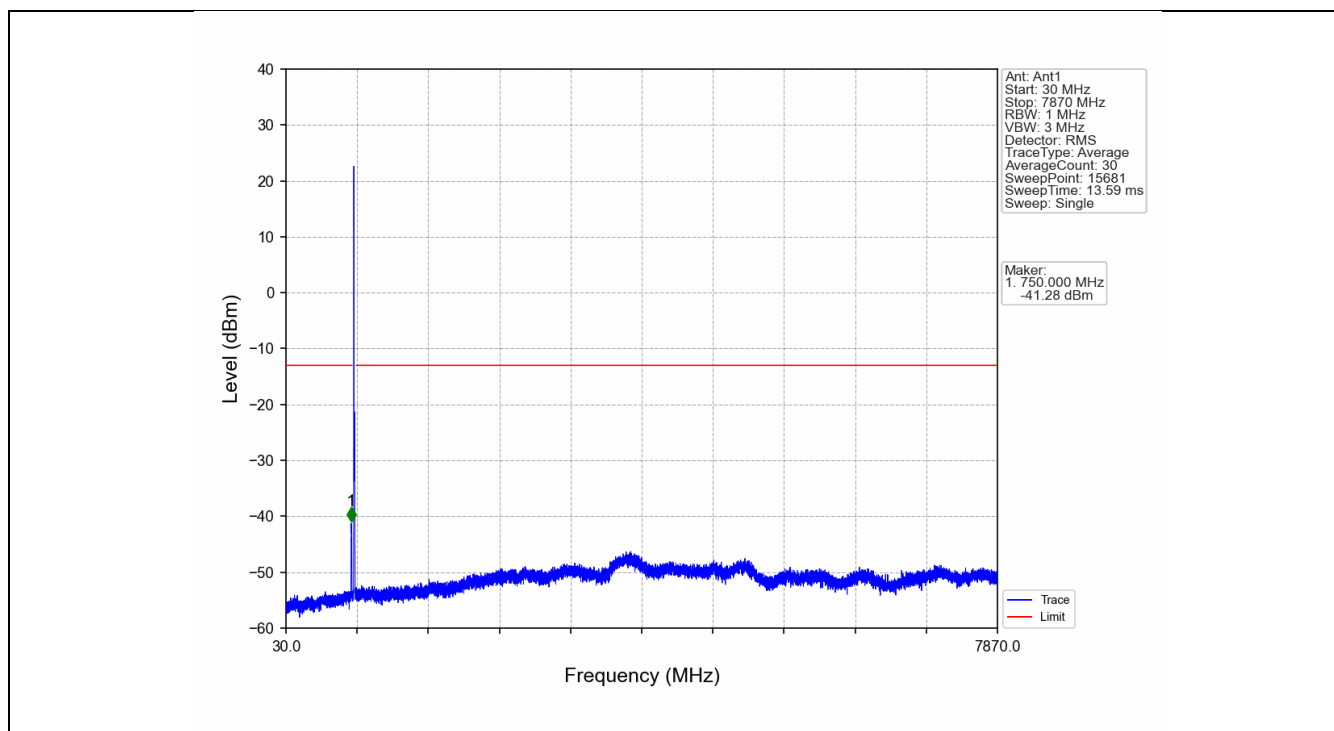


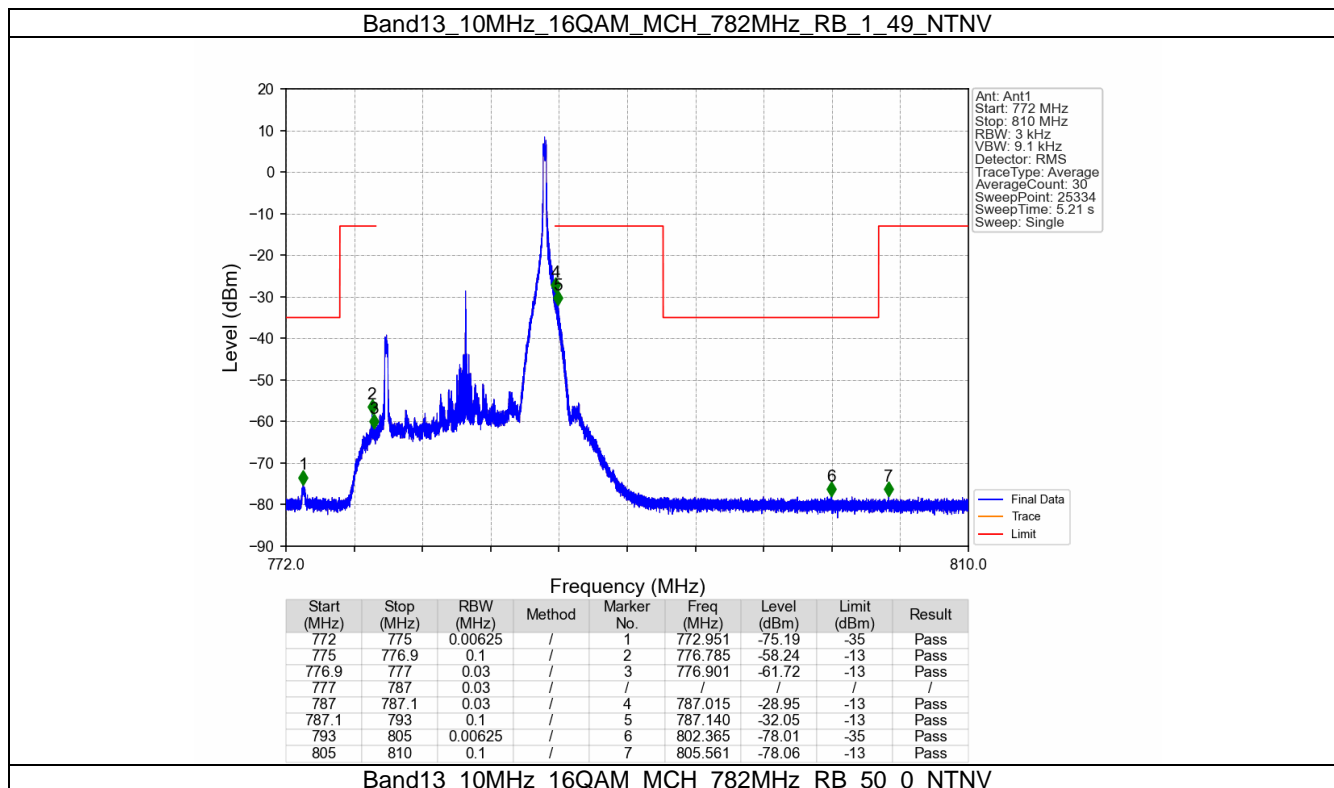


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	773.733	-71.41	-35	Pass
775	776.9	0.1	/	2	776.899	-47.13	-13	Pass
776.9	777	0.03	/	3	776.988	-45.83	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.030	-46.73	-13	Pass
787.1	793	0.1	/	5	787.102	-48.65	-13	Pass
793	805	0.00625	/	6	793.017	-76.89	-35	Pass
805	810	0.1	/	7	808.623	-78.13	-13	Pass

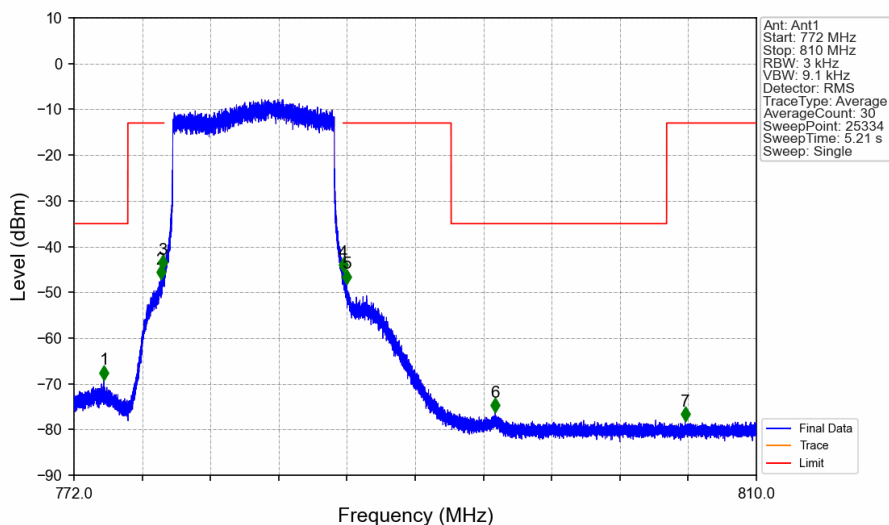












Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	773.667	-69.12	-35	Pass
775	776.9	0.1	/	2	776.835	-47.14	-13	Pass
776.9	777	0.03	/	3	776.955	-44.98	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.002	-45.56	-13	Pass
787.1	793	0.1	/	5	787.185	-48.14	-13	Pass
793	805	0.00625	/	6	795.456	-76.20	-35	Pass
805	810	0.1	/	7	806.029	-78.23	-13	Pass



### 3. Spurious Emission

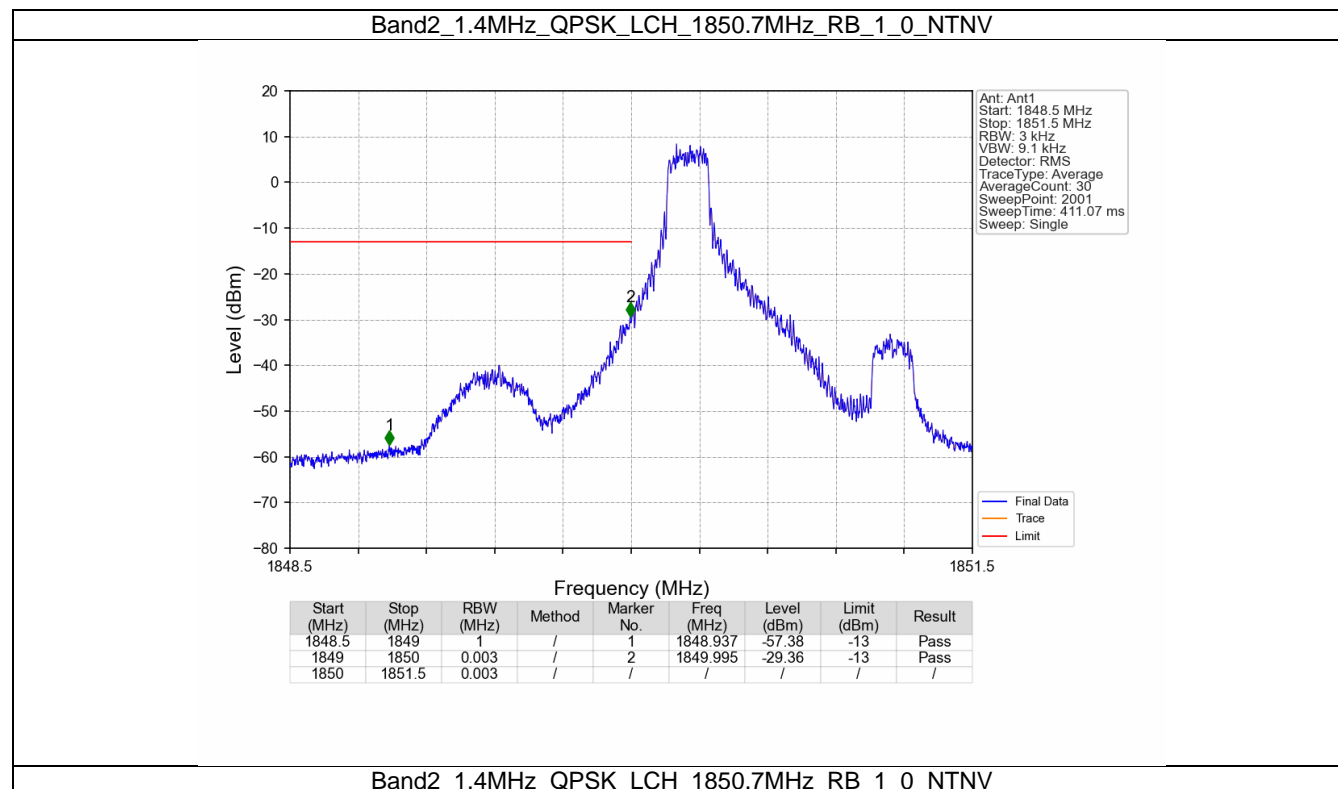
#### 3.1 B2\_1.4MHz

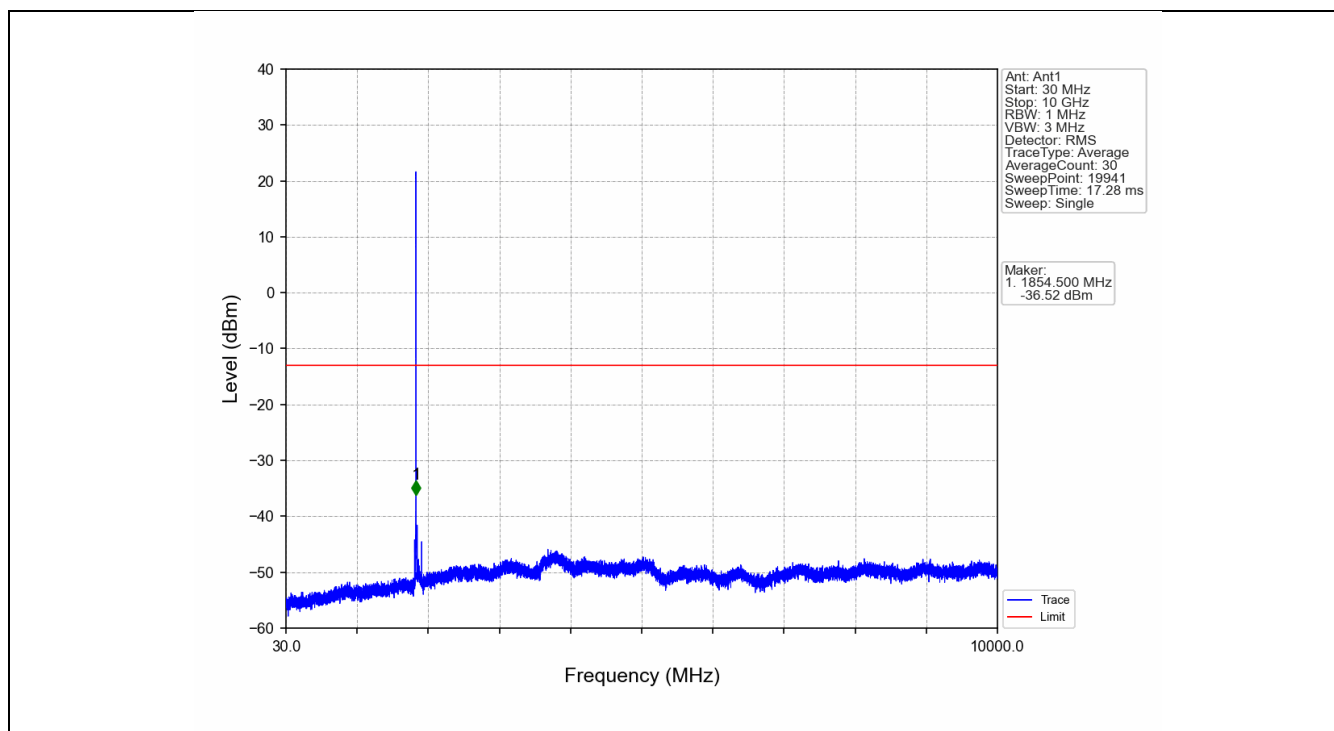
##### 3.1.1 Test Result

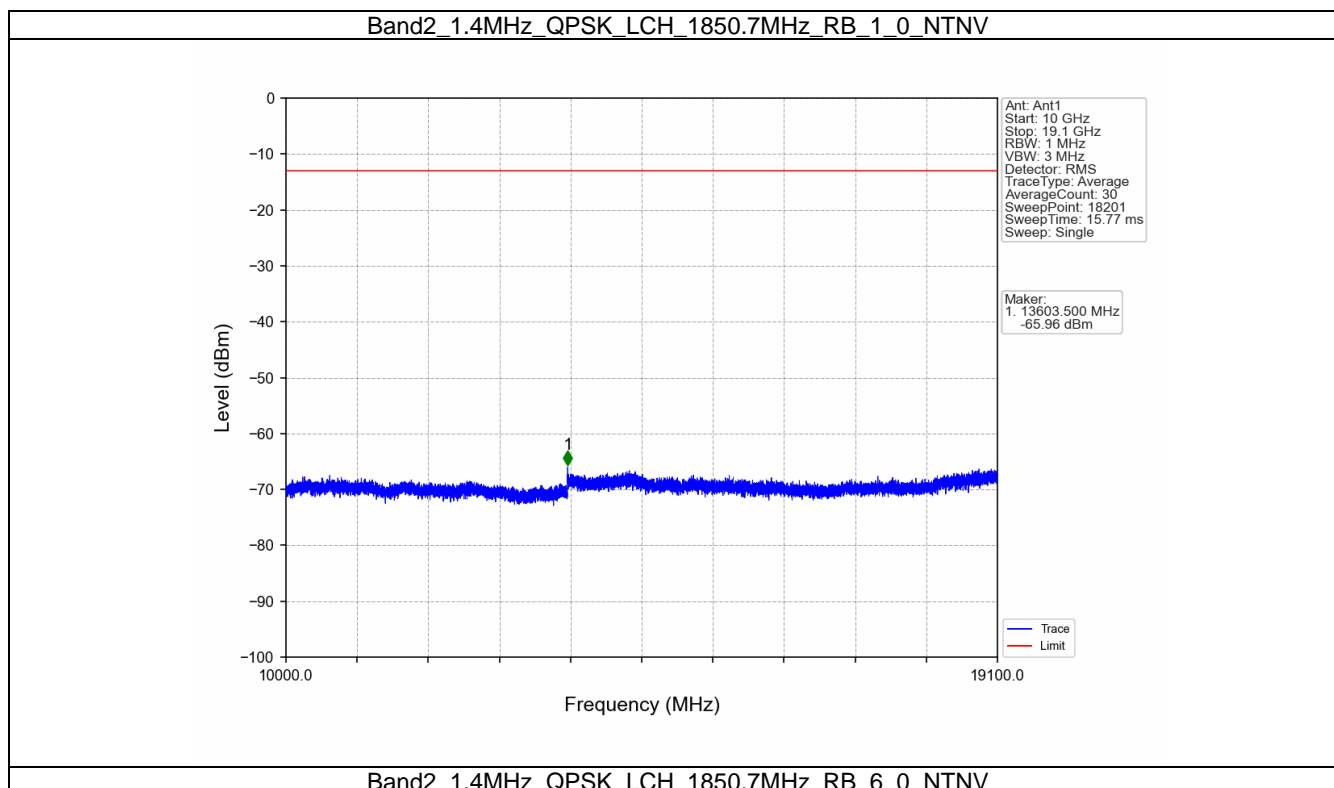
Band: 2 / Bandwidth: 1.4MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	1850.7	1	0	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass
	1880	1	0	Refer To Test Graph	Pass
	1909.3	1	0	Refer To Test Graph	Pass
			5	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass
16QAM	1850.7	1	0	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass
	1880	1	0	Refer To Test Graph	Pass
	1909.3	1	0	Refer To Test Graph	Pass
			5	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass



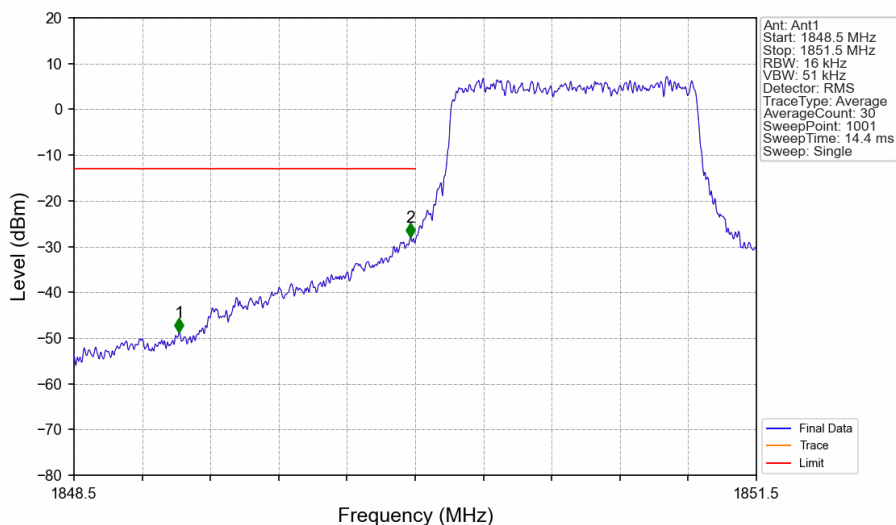
### 3.1.2 Test Graph





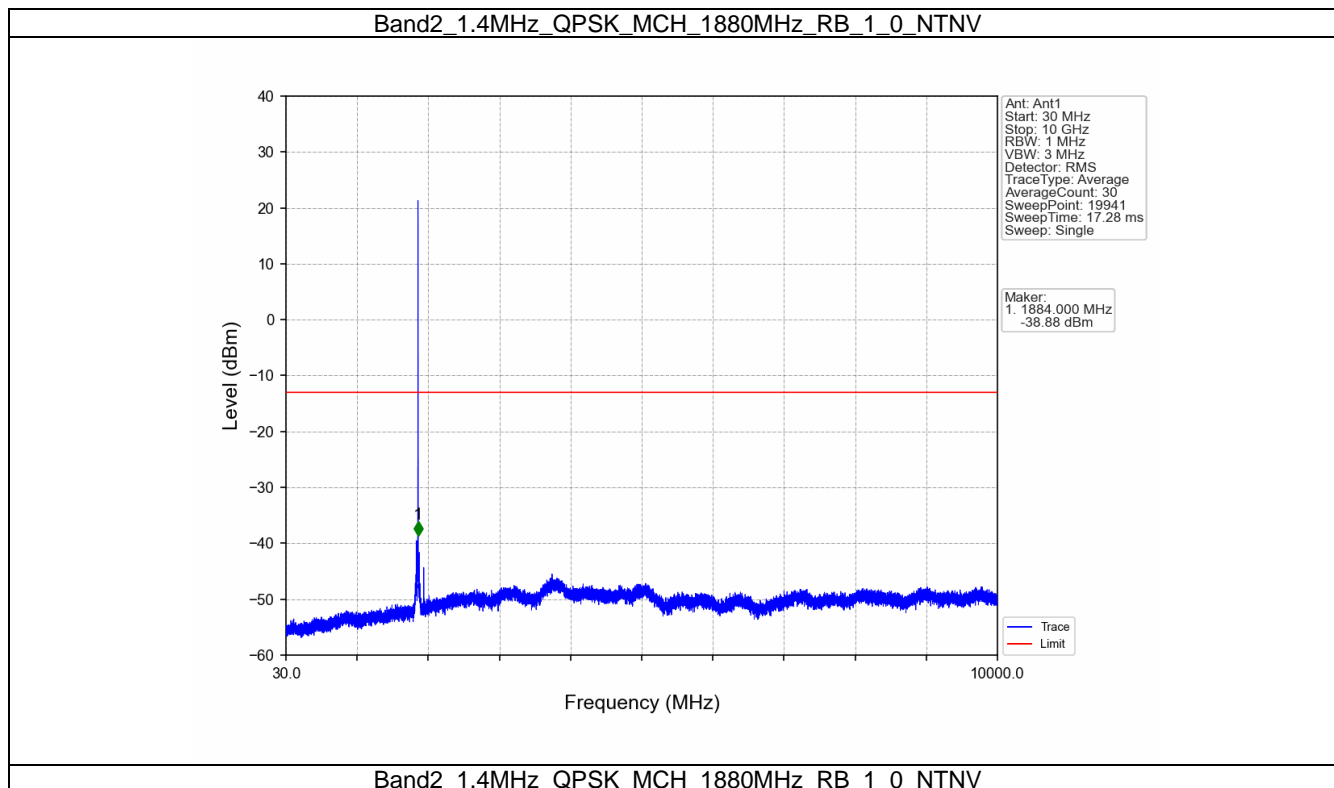


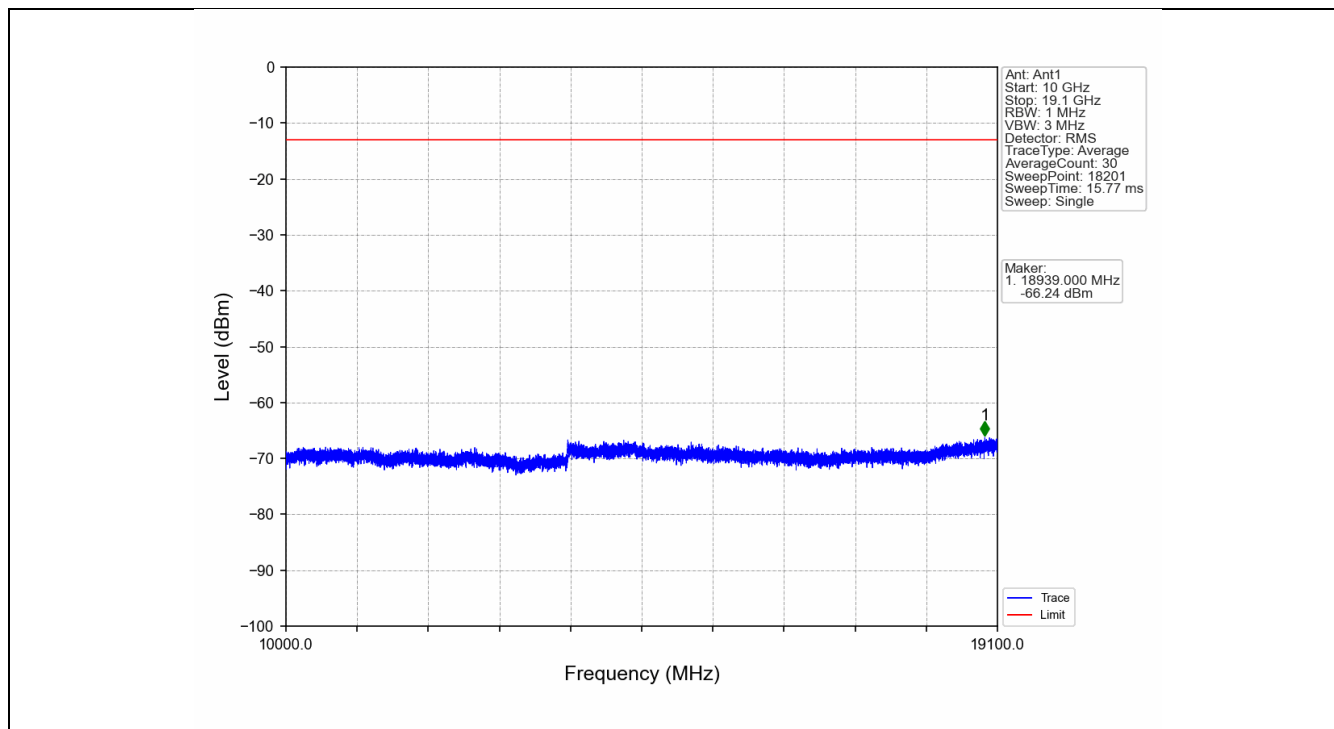


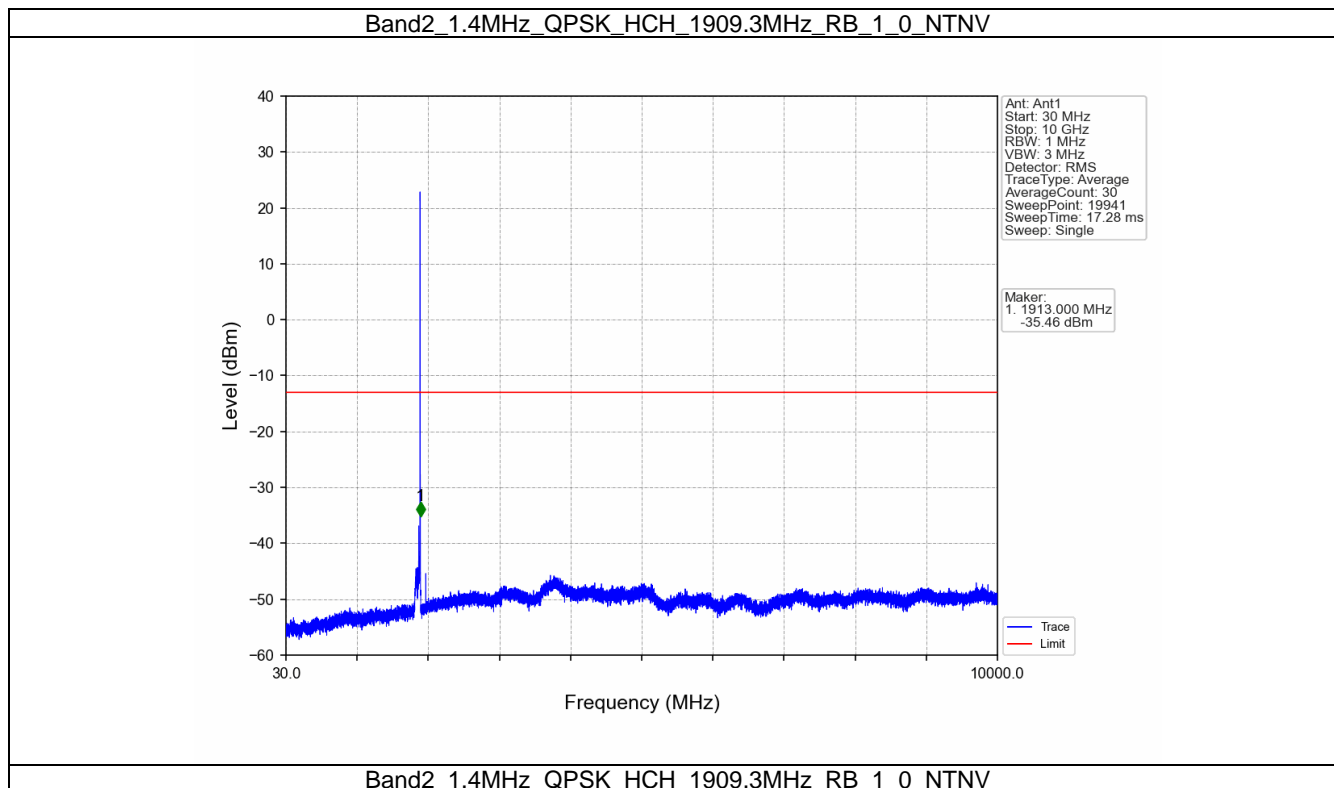


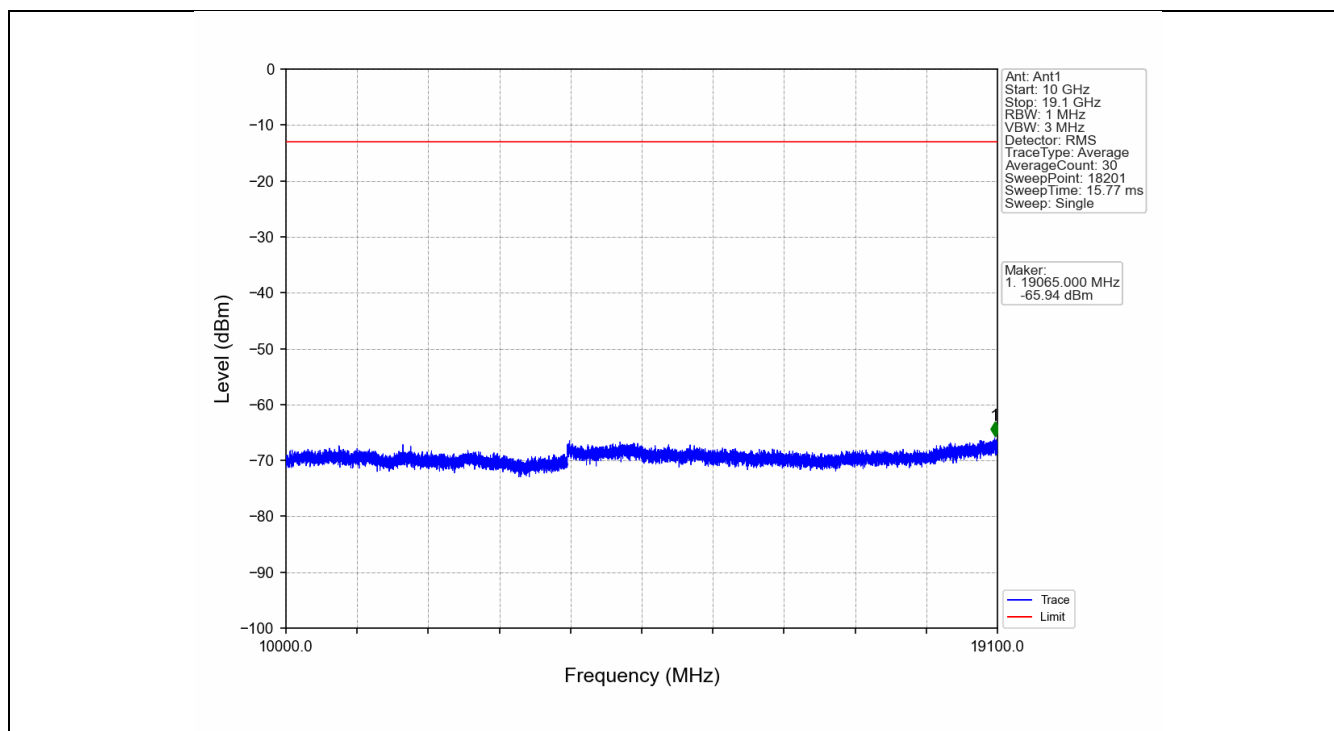
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1848.5	1849	1	/	1	1848.962	-48.74	-13	Pass
1849	1850	0.016	/	2	1849.979	-28.03	-13	Pass
1850	1851.5	0.016	/	/	/	/	/	/



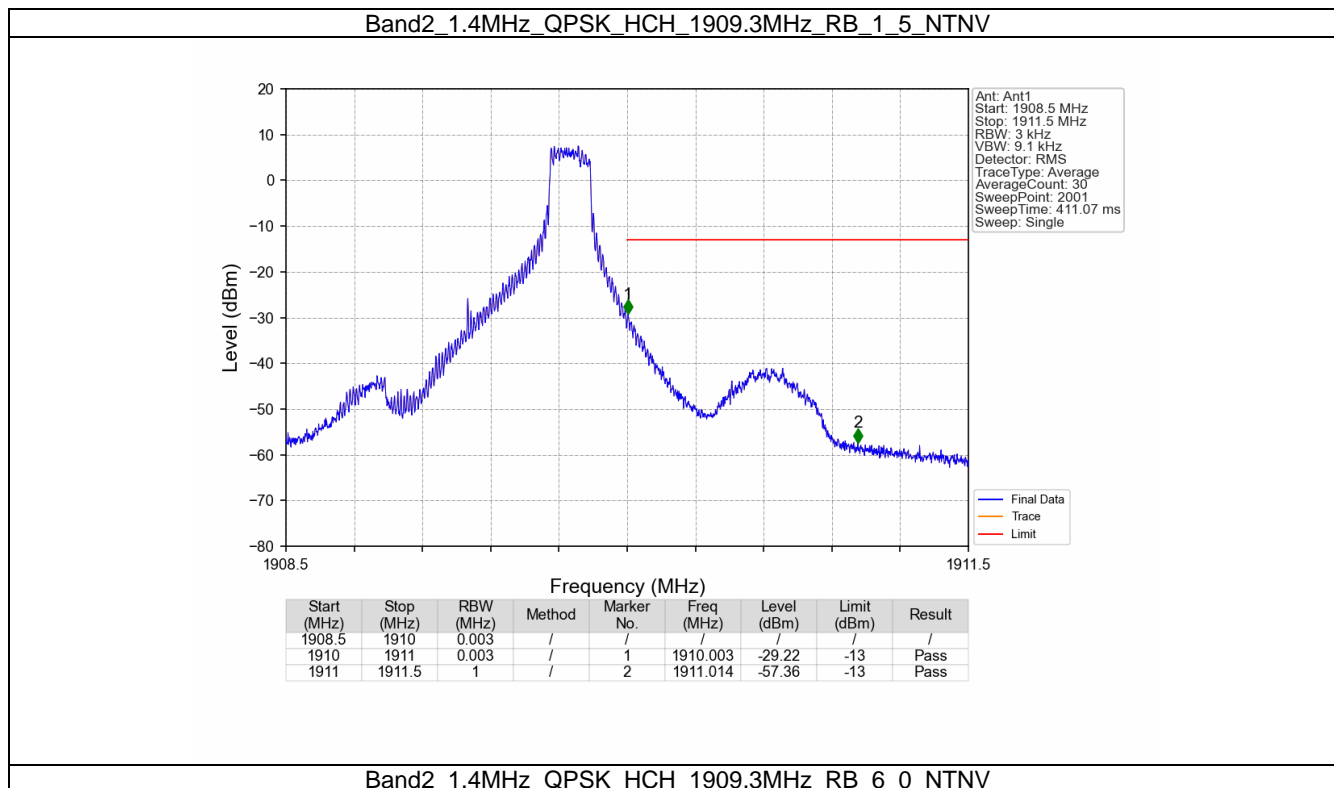


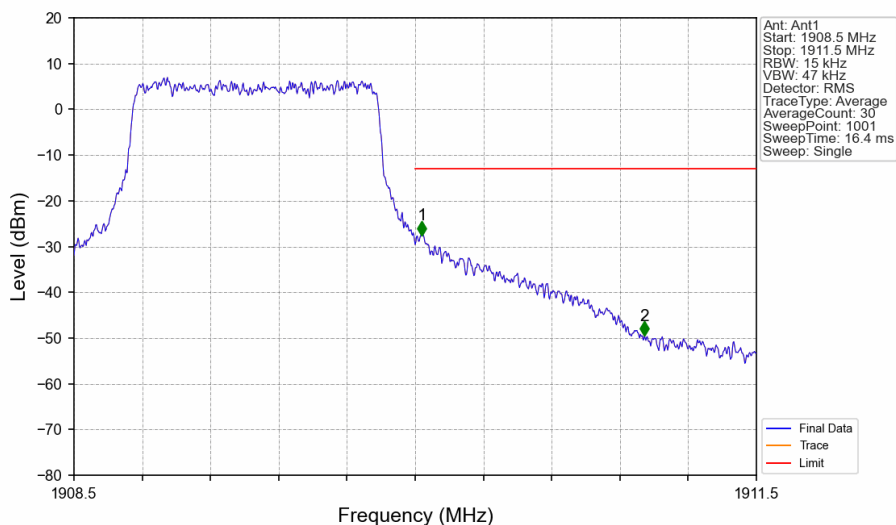






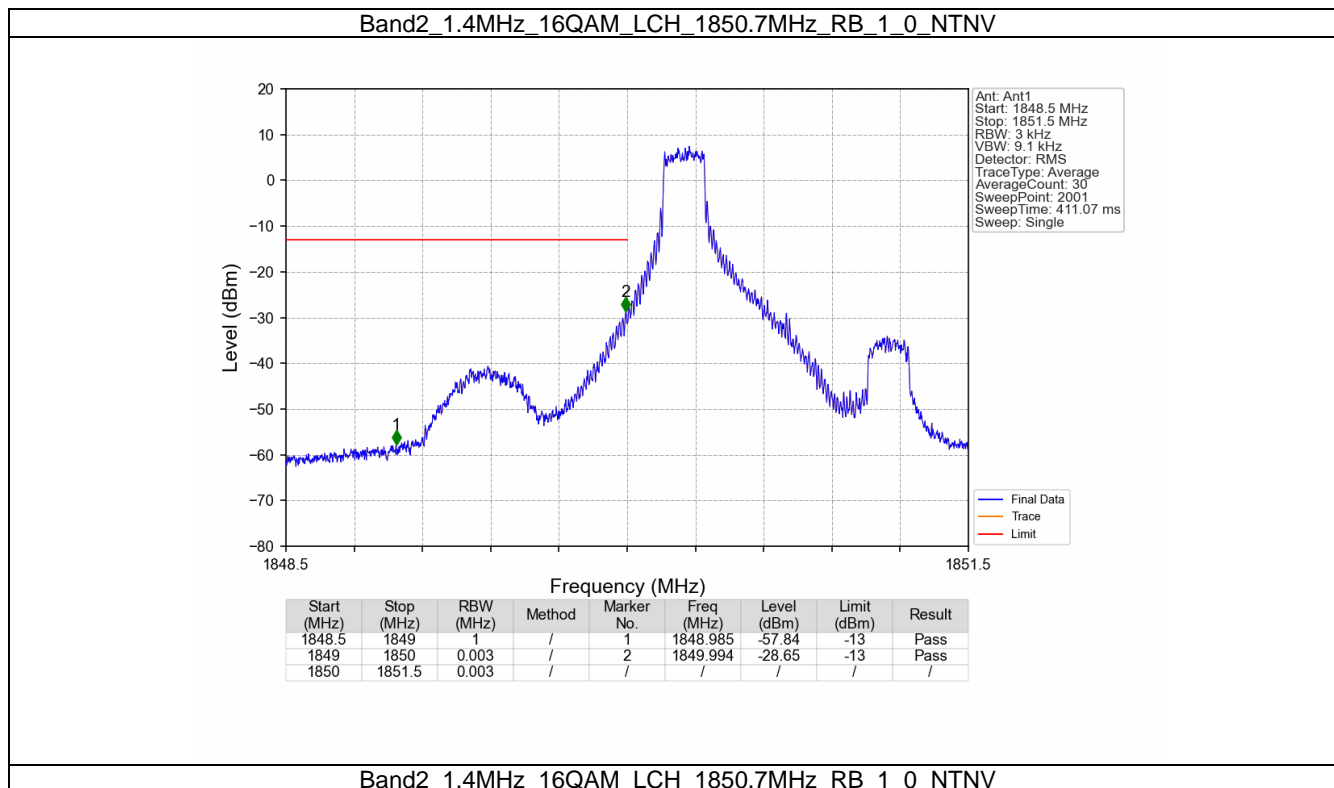


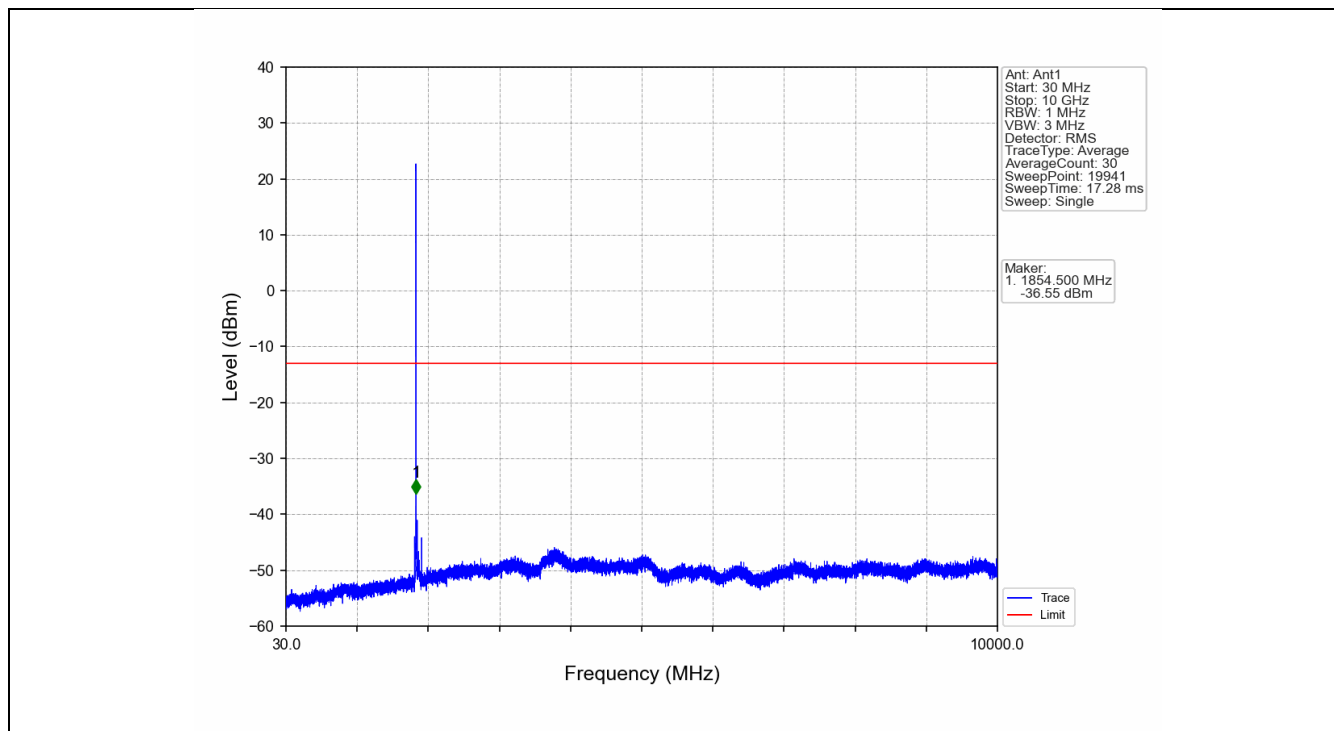


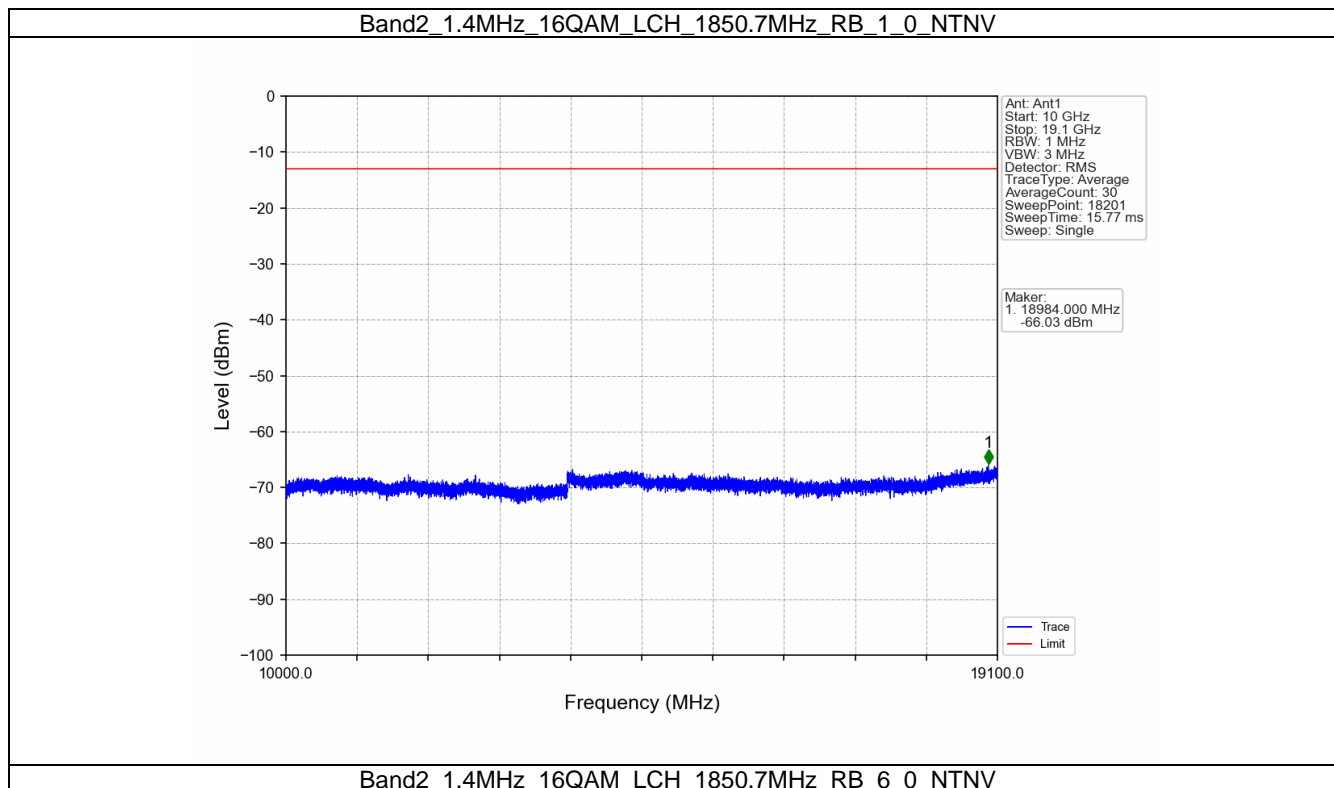


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1908.5	1910	0.015	/	/	/	/	/	/
1910	1911	0.015	/	1	1910.030	-27.53	-13	Pass
1911	1911.5	1	/	2	1911.008	-49.52	-13	Pass





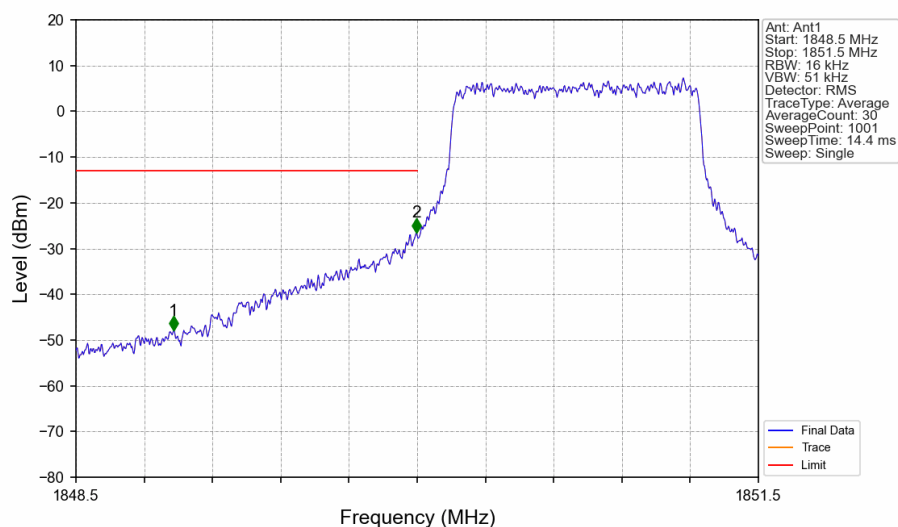




Band2\_1.4MHz\_16QAM\_LCH\_1850.7MHz\_RB\_6\_0\_NTNV

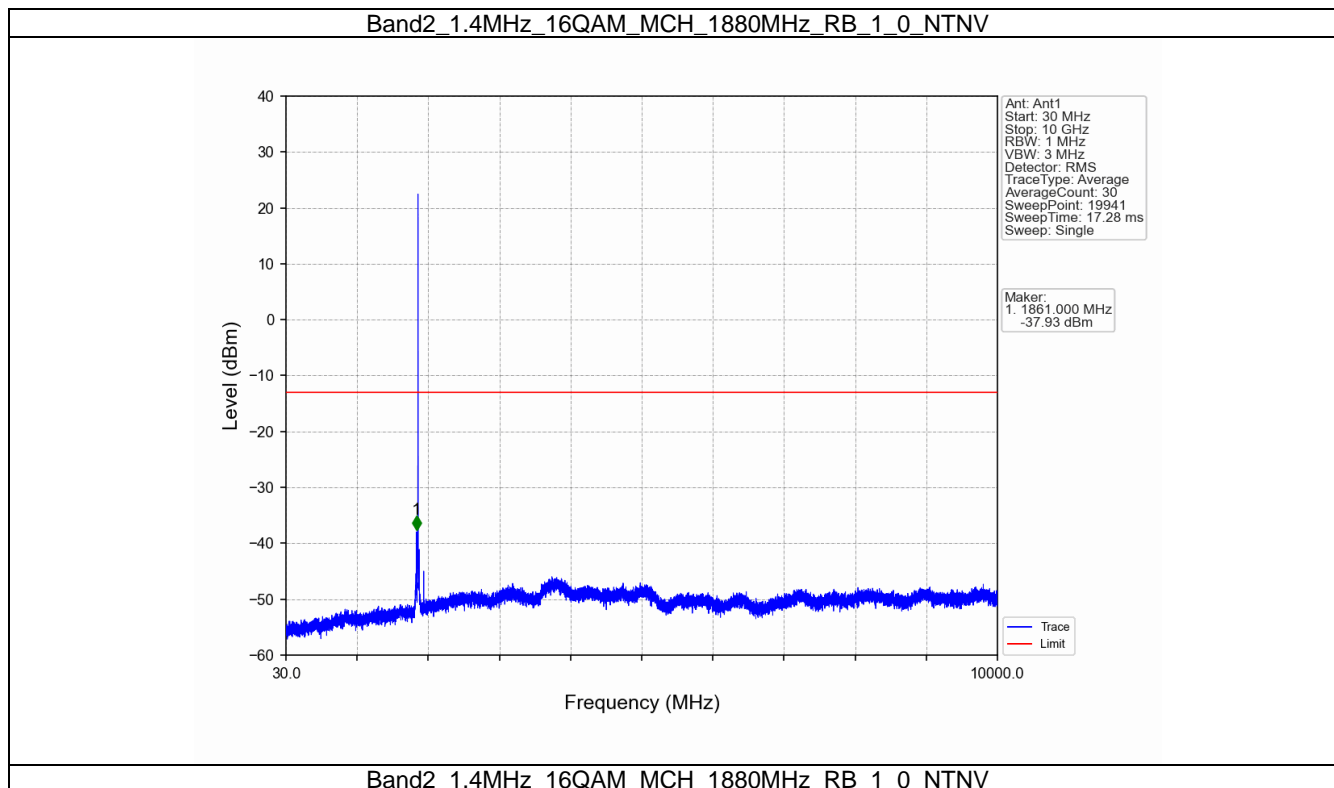


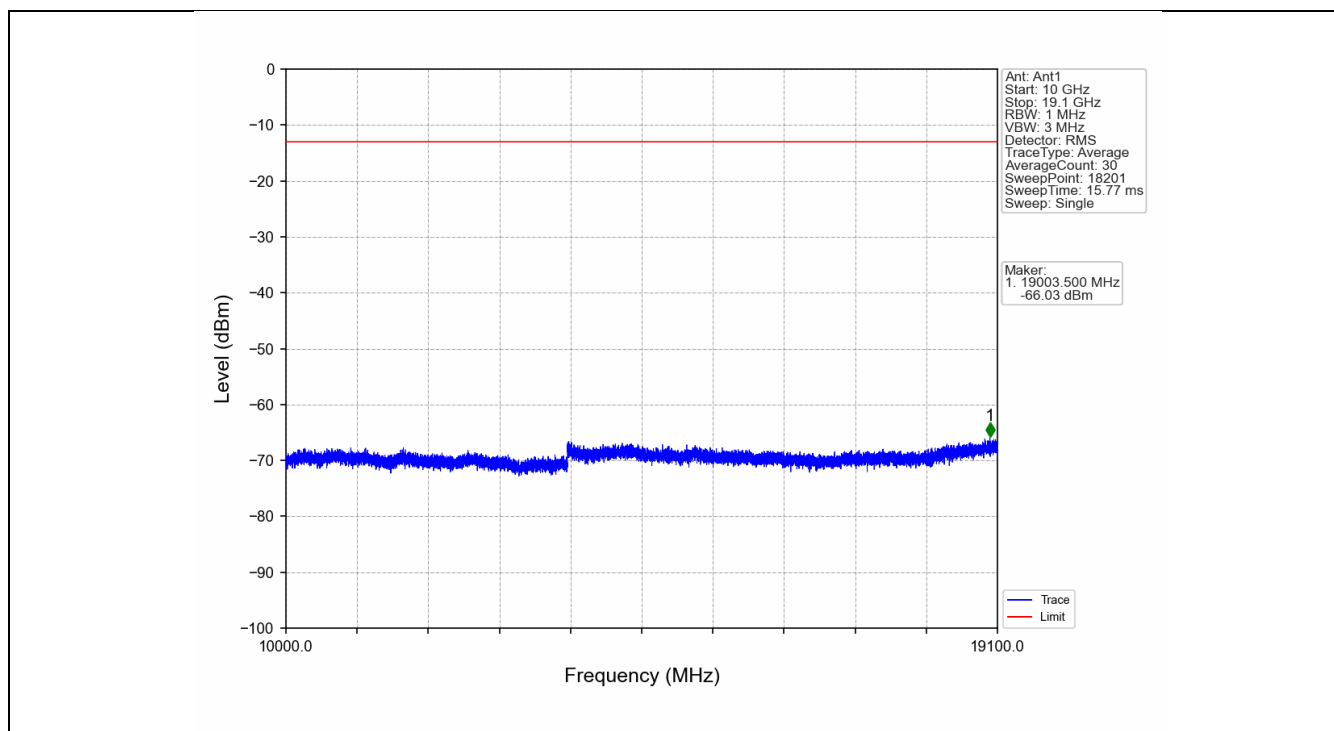


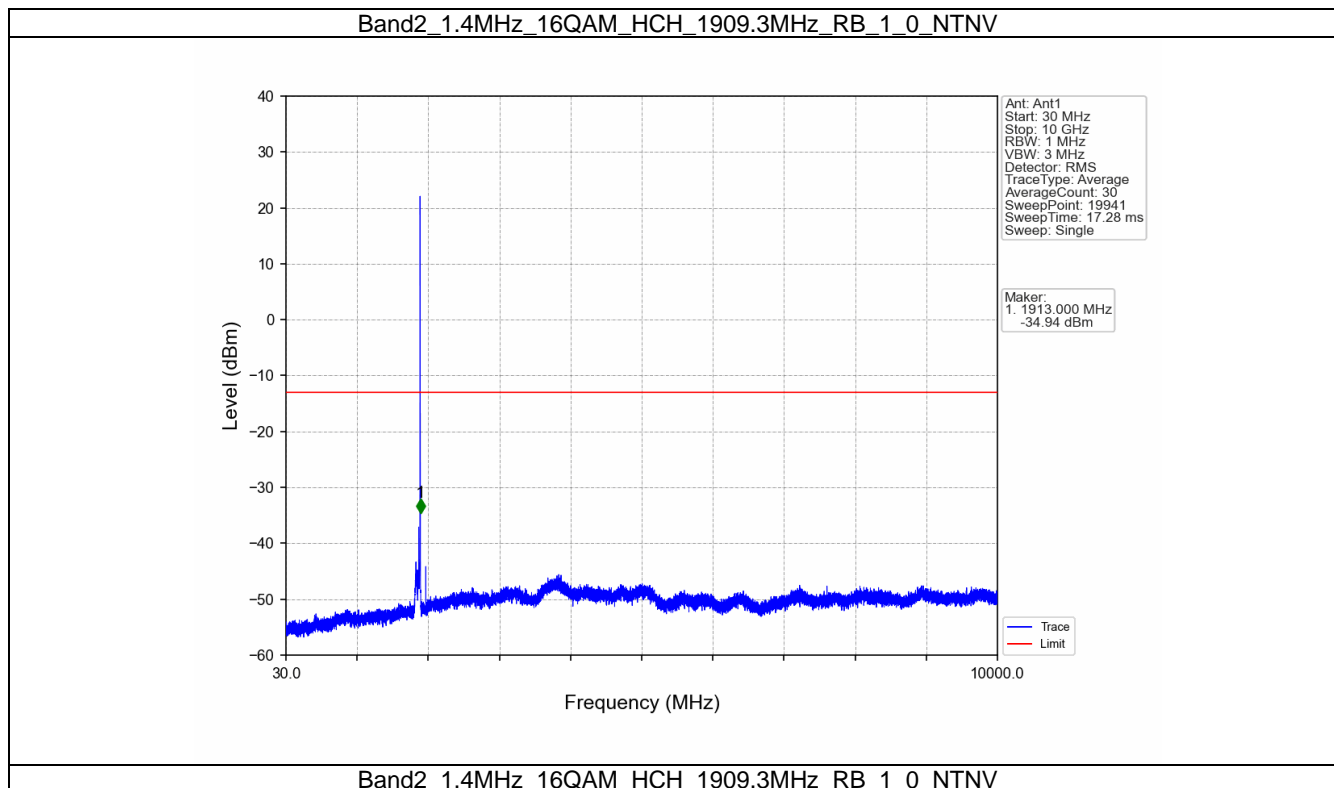


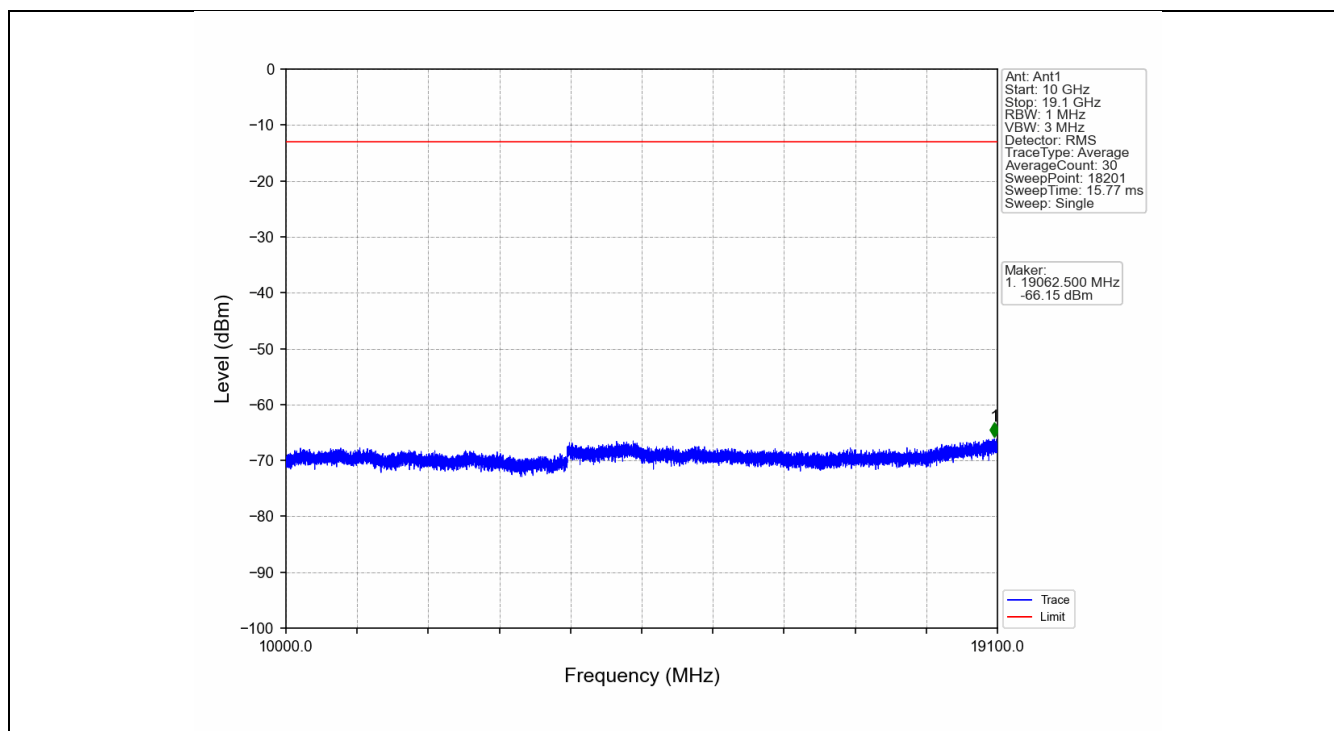
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1848.5	1849	1	/	1	1848.929	-47.85	-13	Pass
1849	1850	0.016	/	2	1849.997	-26.48	-13	Pass
1850	1851.5	0.016	/	/	/	/	/	/



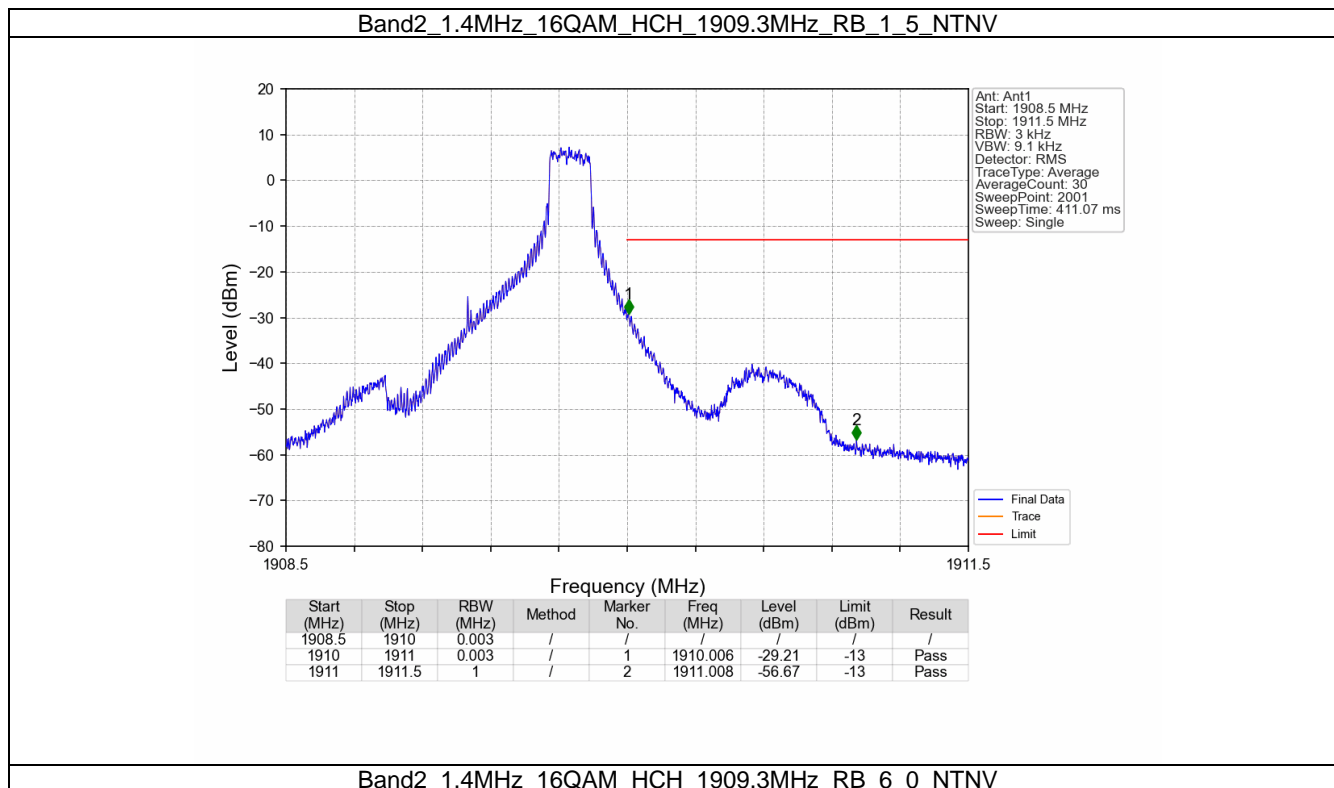


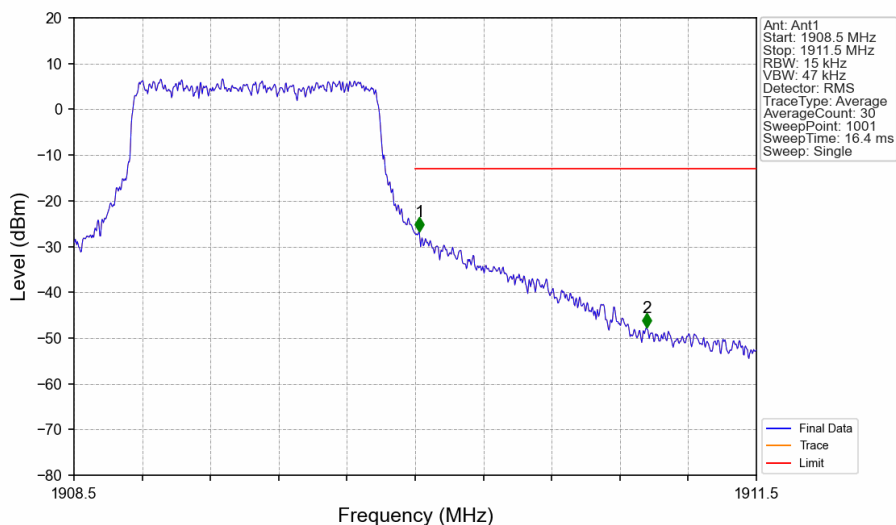












Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1908.5	1910	0.015	/	/	/	/	/	/
1910	1911	0.015	/	1	1910.018	-26.79	-13	Pass
1911	1911.5	1	/	2	1911.017	-47.72	-13	Pass



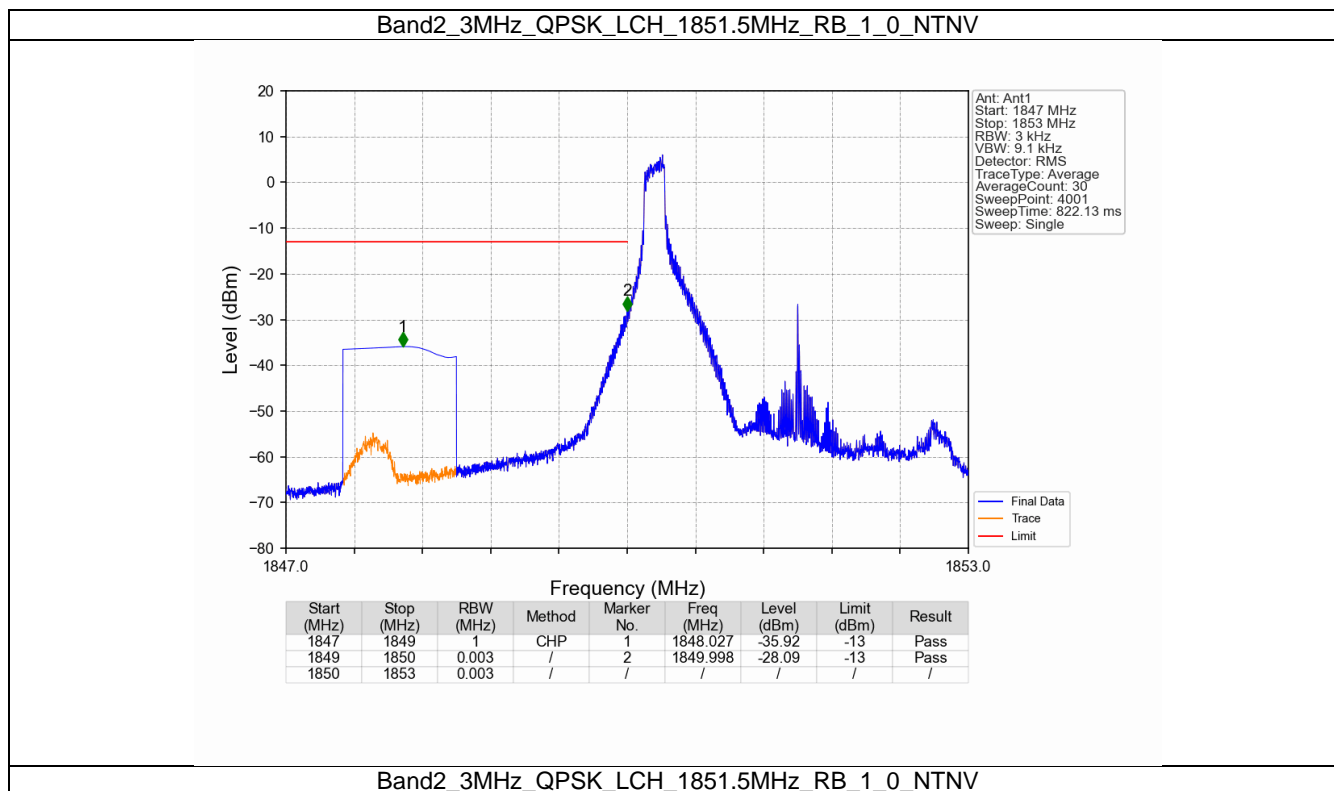
### 3.2 B2\_3MHz

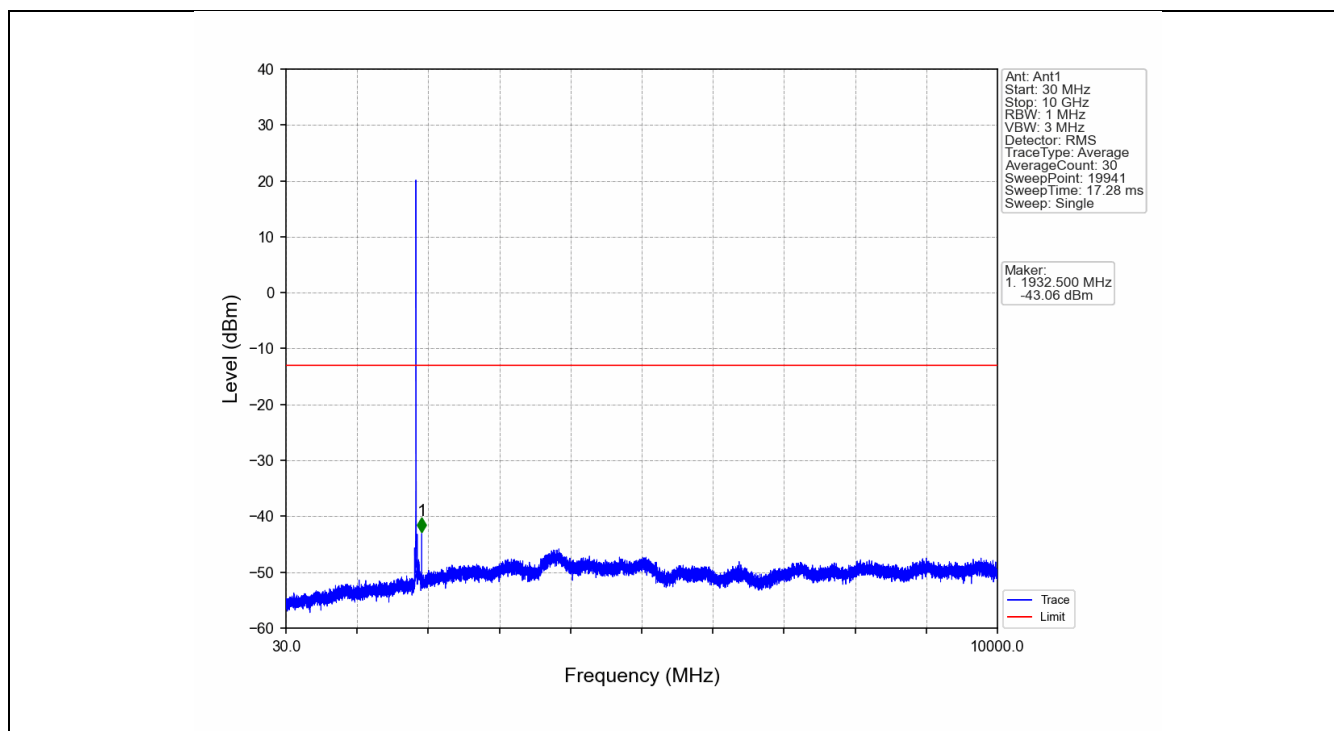
#### 3.2.1 Test Result

Band: 2 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	1851.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	1880	1	0	Refer To Test Graph		Pass
	1908.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
16QAM	1851.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	1880	1	0	Refer To Test Graph		Pass
	1908.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

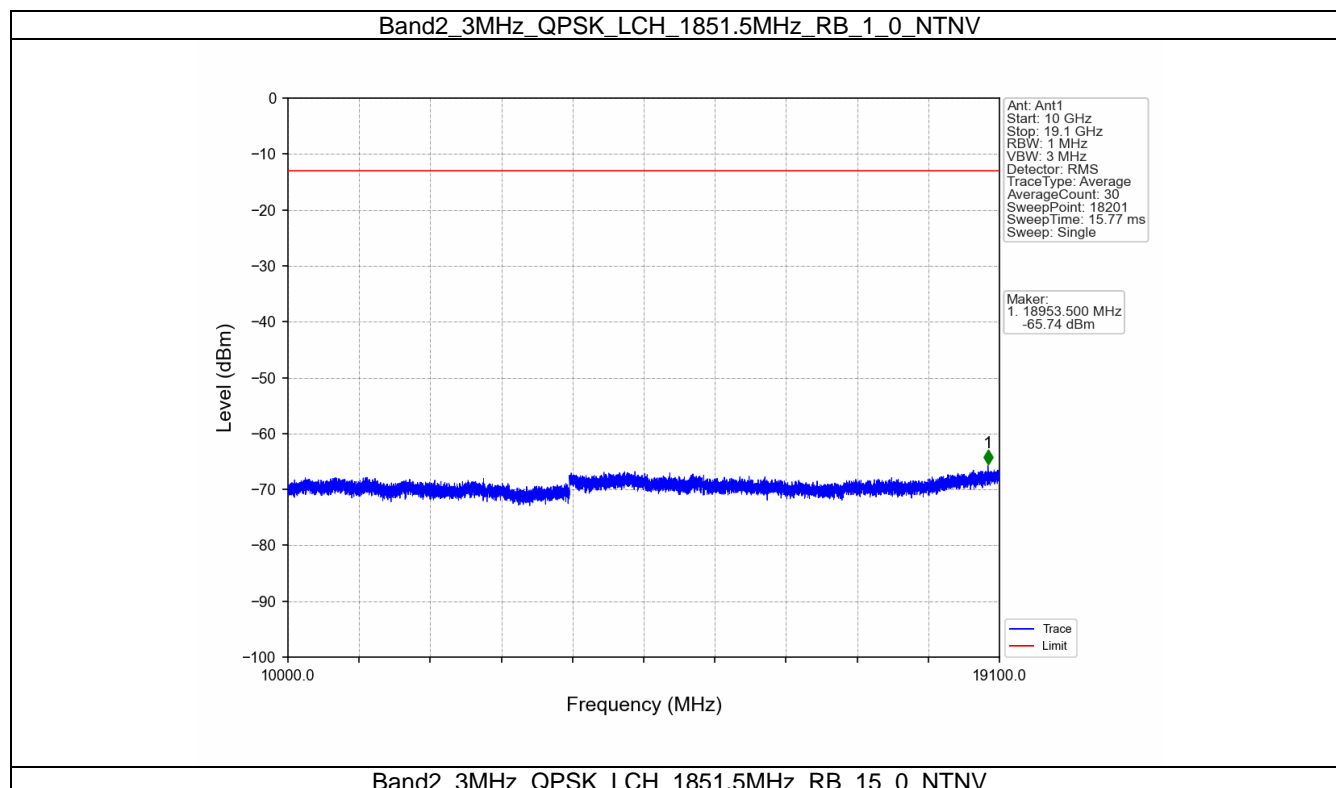


### 3.2.2 Test Graph



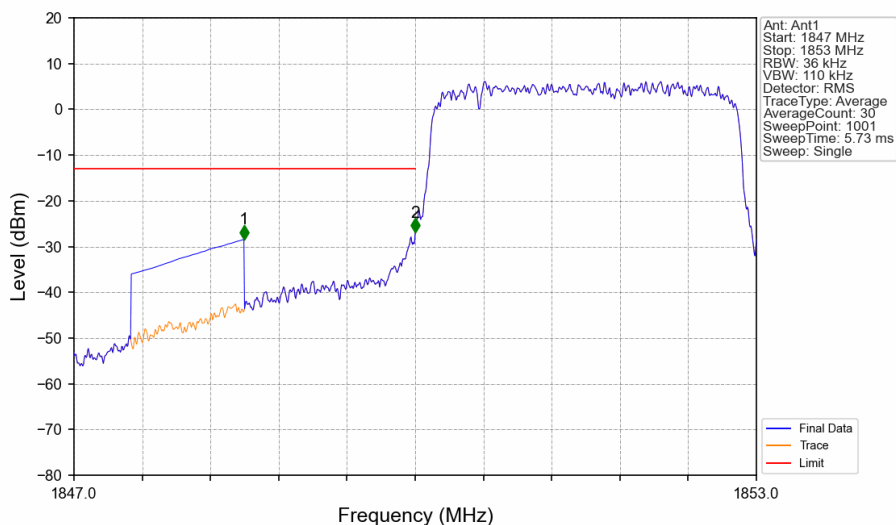






Band2\_3MHz\_QPSK\_LCH\_1851.5MHz\_RB\_15\_0\_NTNV





Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1847	1849	1	CHP	1	1848.494	-28.44	-13	Pass
1849	1850	0.036	/	2	1850.000	-26.94	-13	Pass
1850	1853	0.036	/	/	/	/	/	/

