



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

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### 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
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
	715.3	1	0	Refer To Test Graph	Pass
			5	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass



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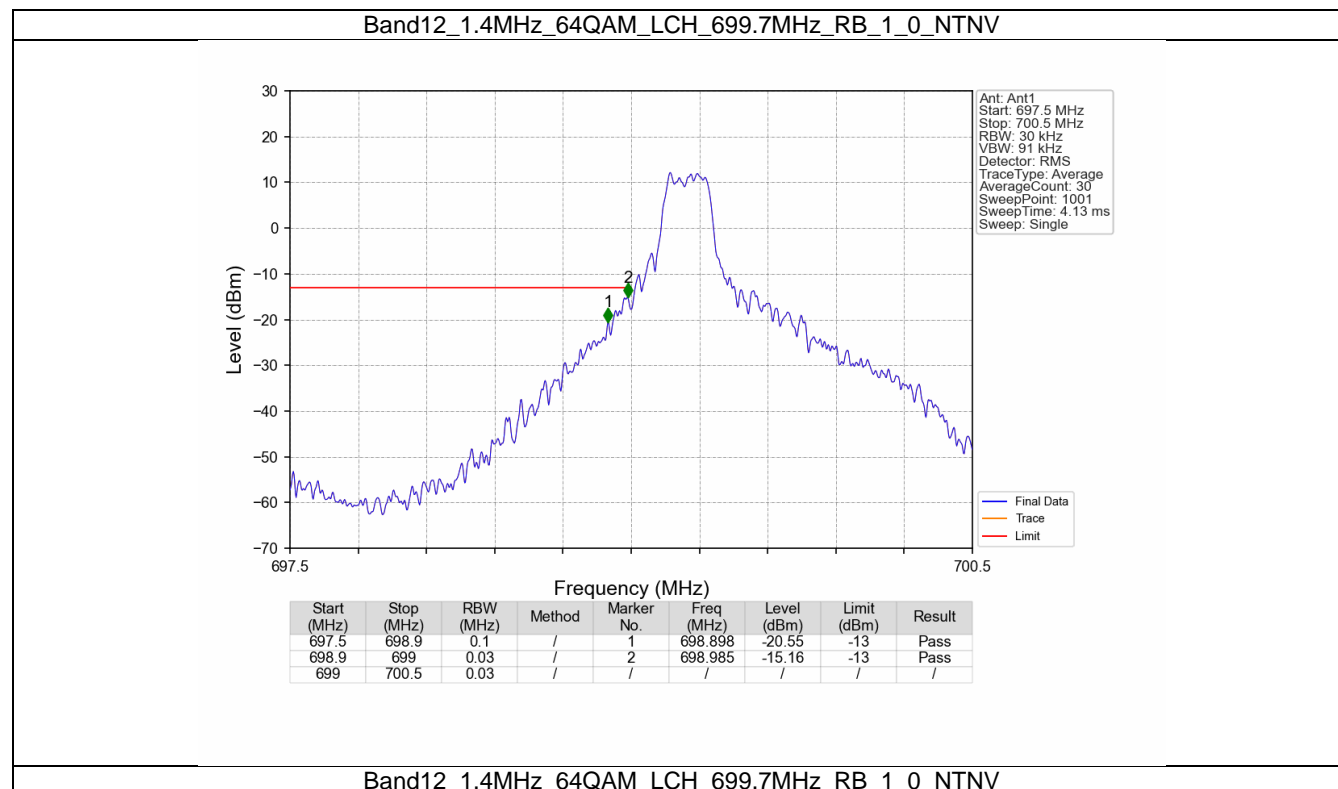
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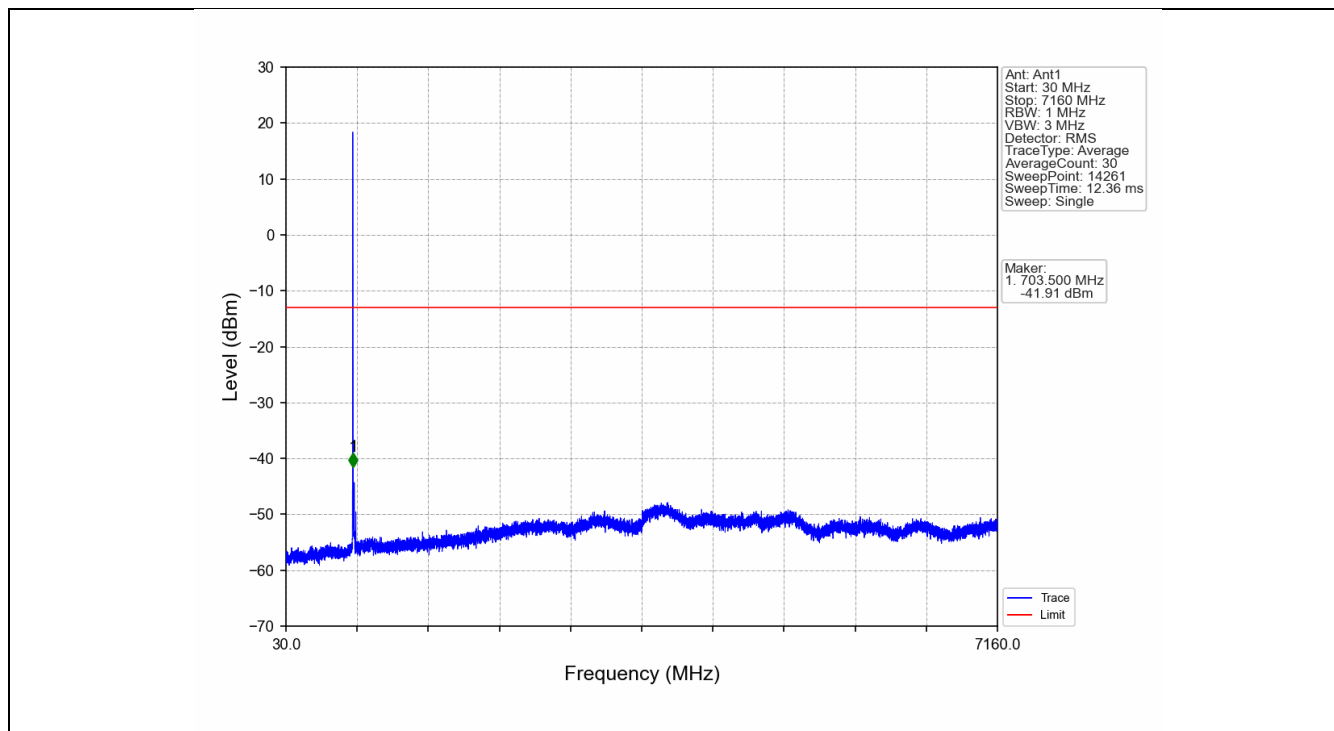
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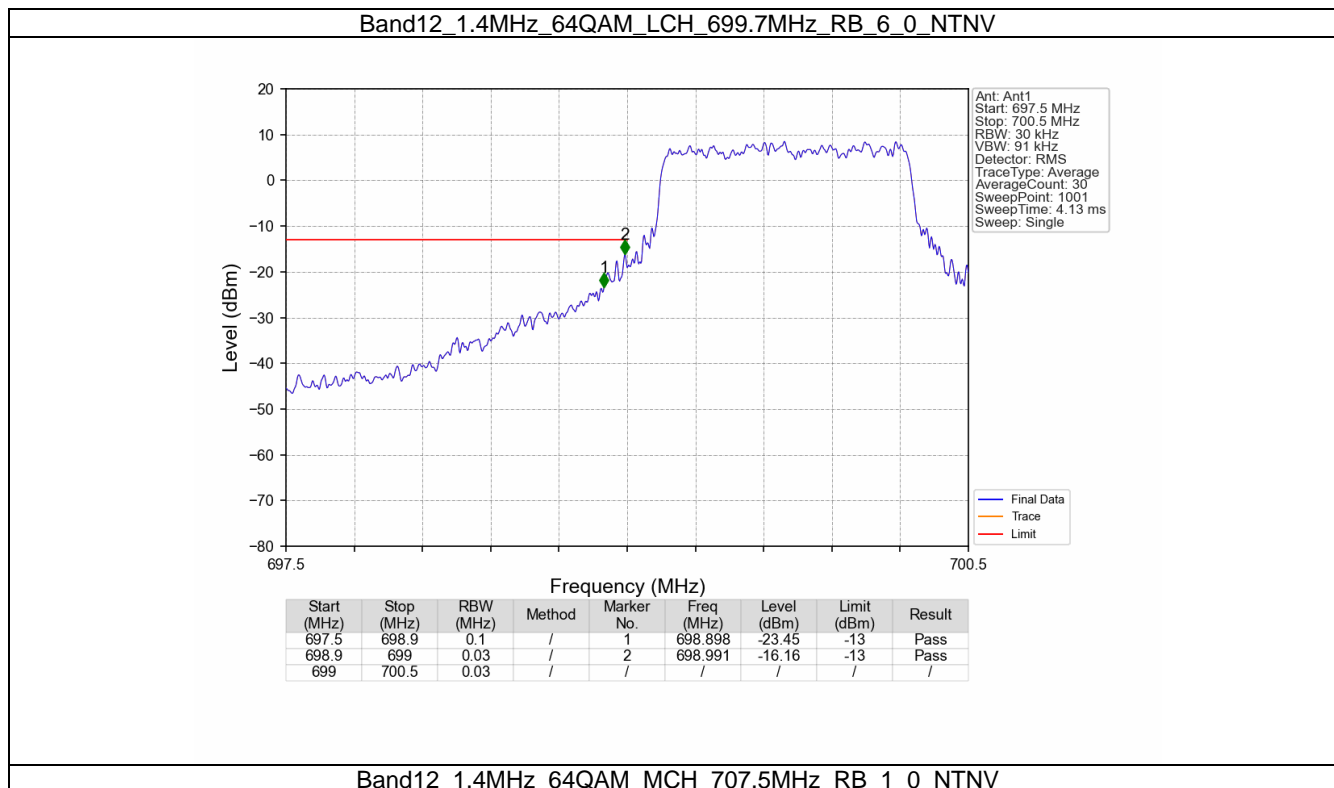
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### 1.1.2 Test Graph

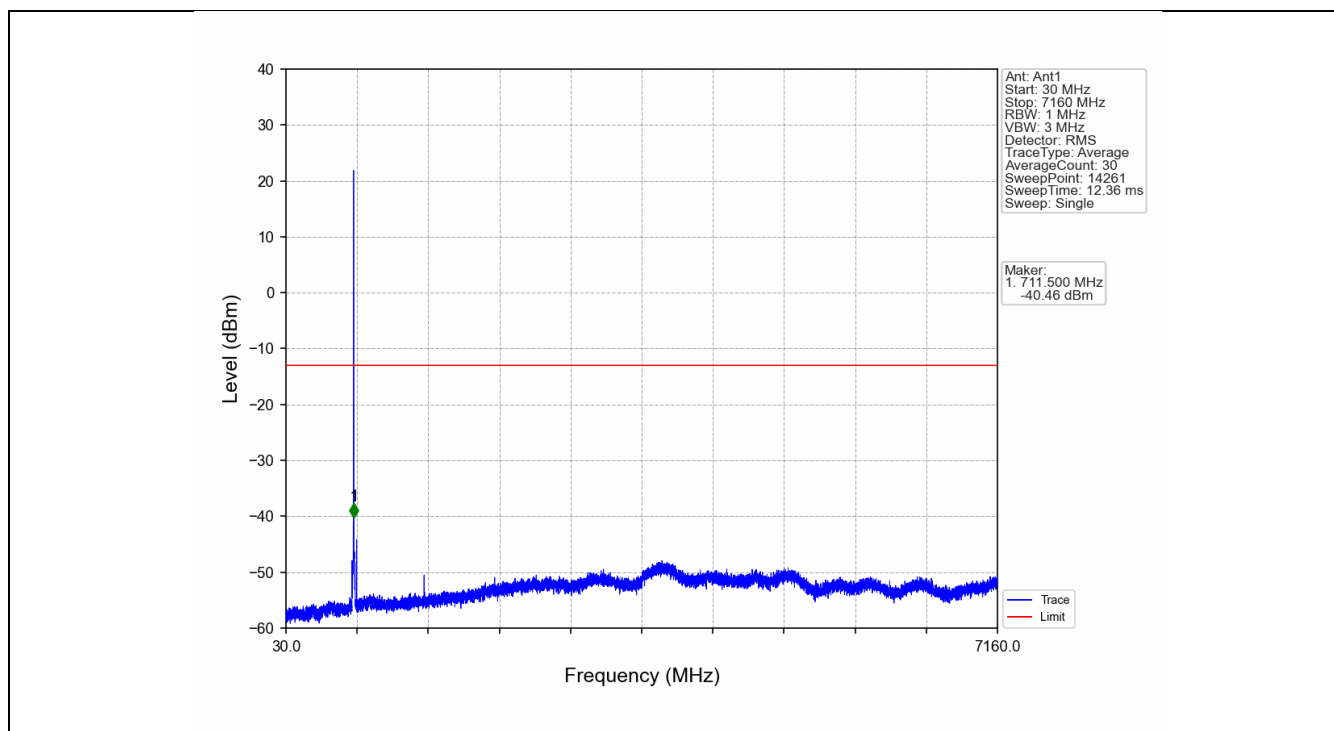


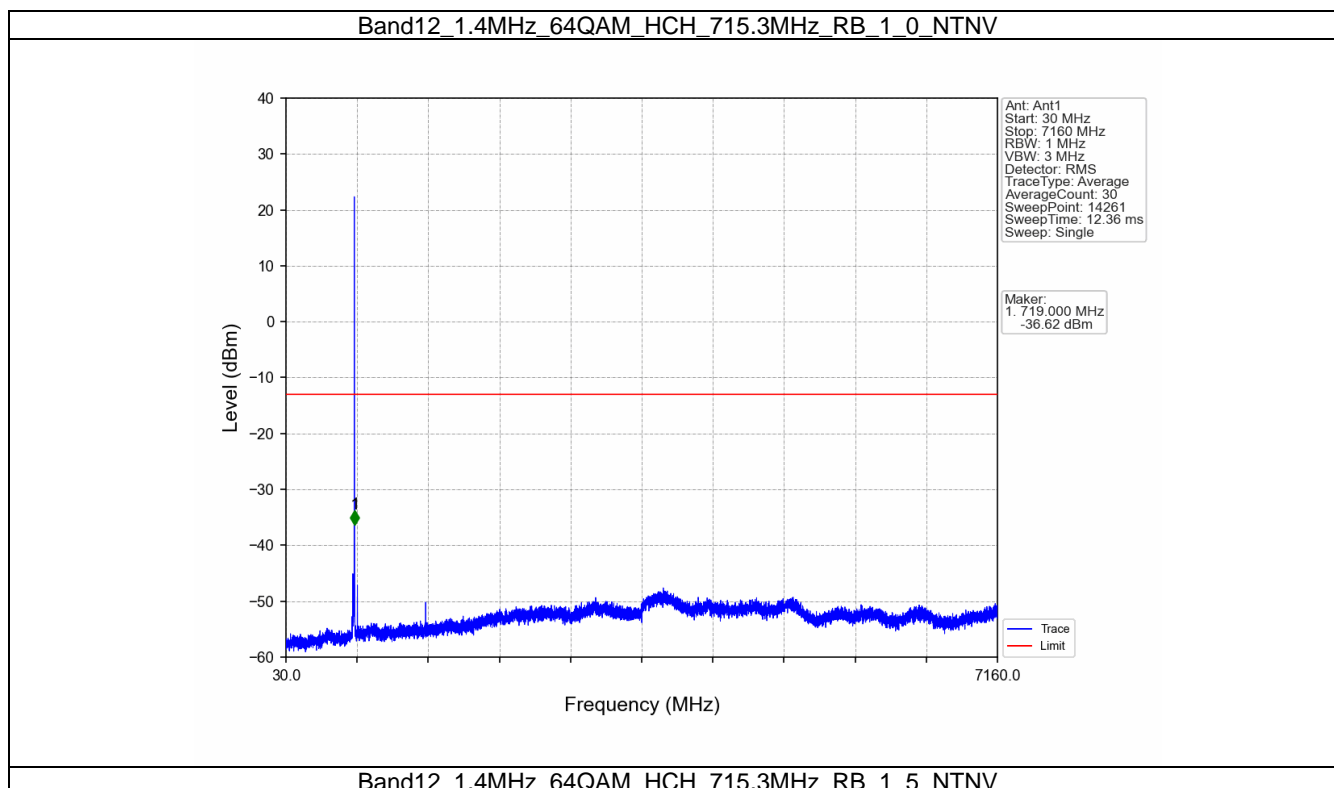




Band12\_1.4MHz\_64QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV







Band12\_1.4MHz\_64QAM\_HCH\_715.3MHz\_RB\_1\_5\_NTNV



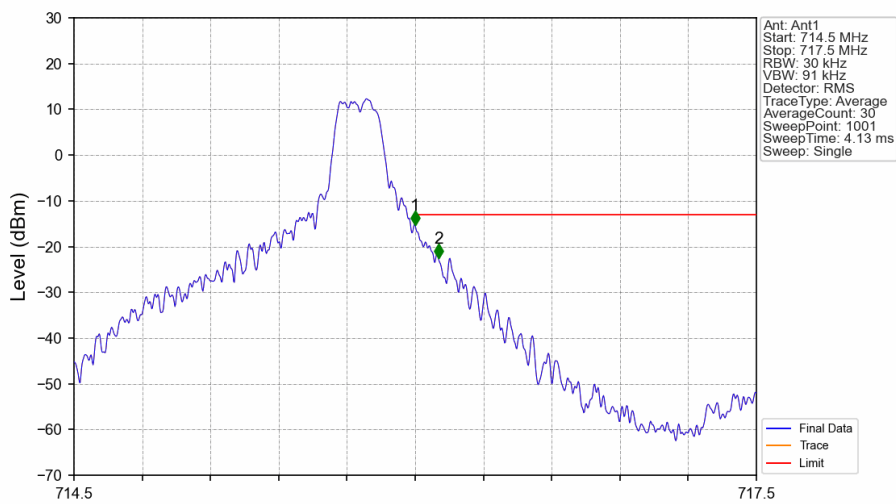
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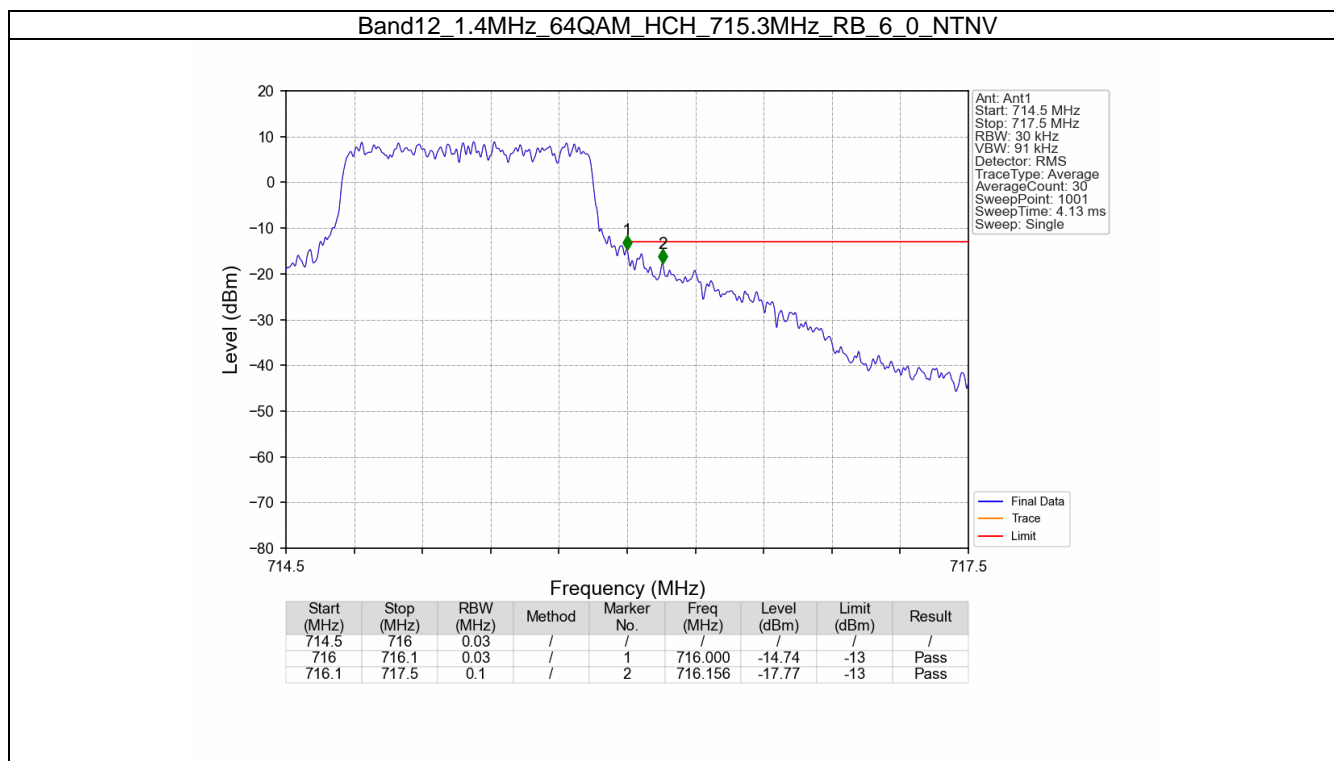
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
714.5	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-15.33	-13	Pass
716.1	717.5	0.1	/	2	716.102	-22.56	-13	Pass









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### 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	
64QAM	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



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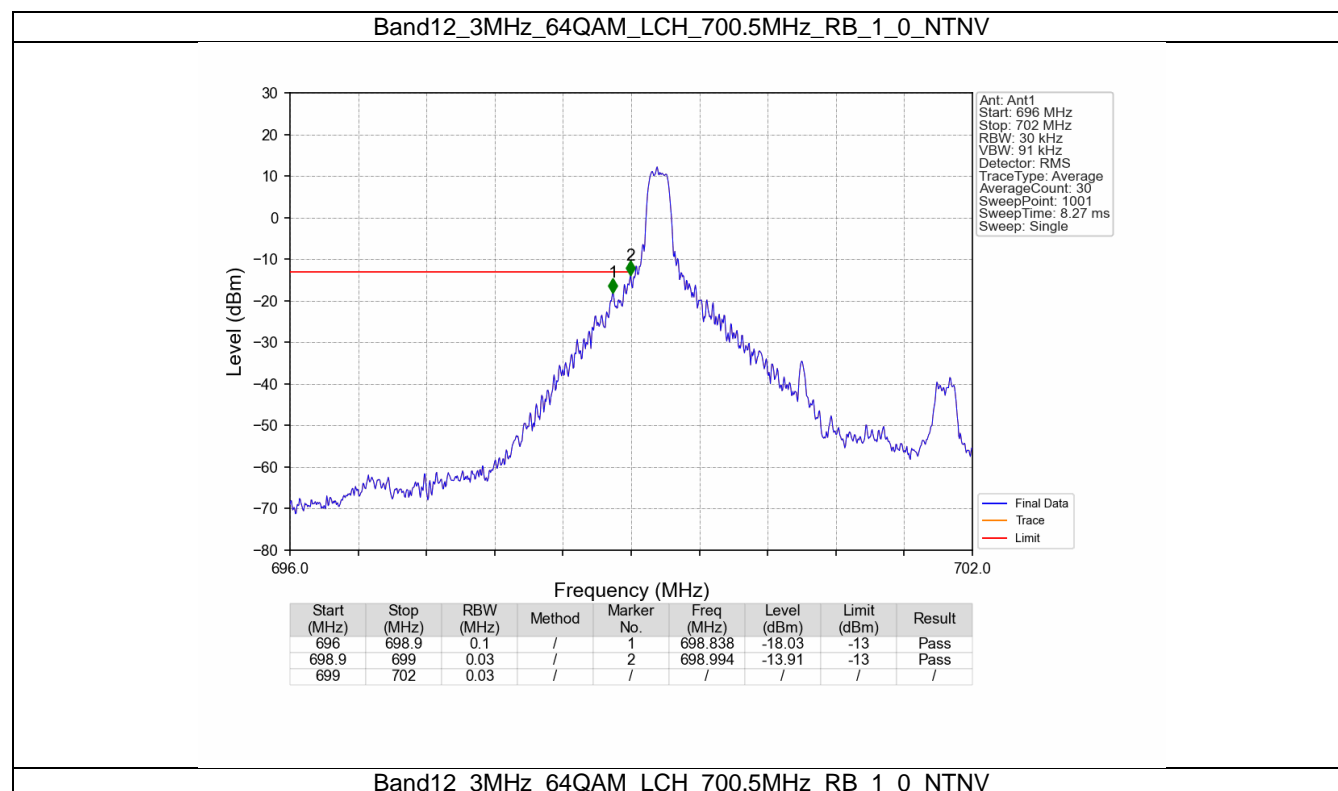
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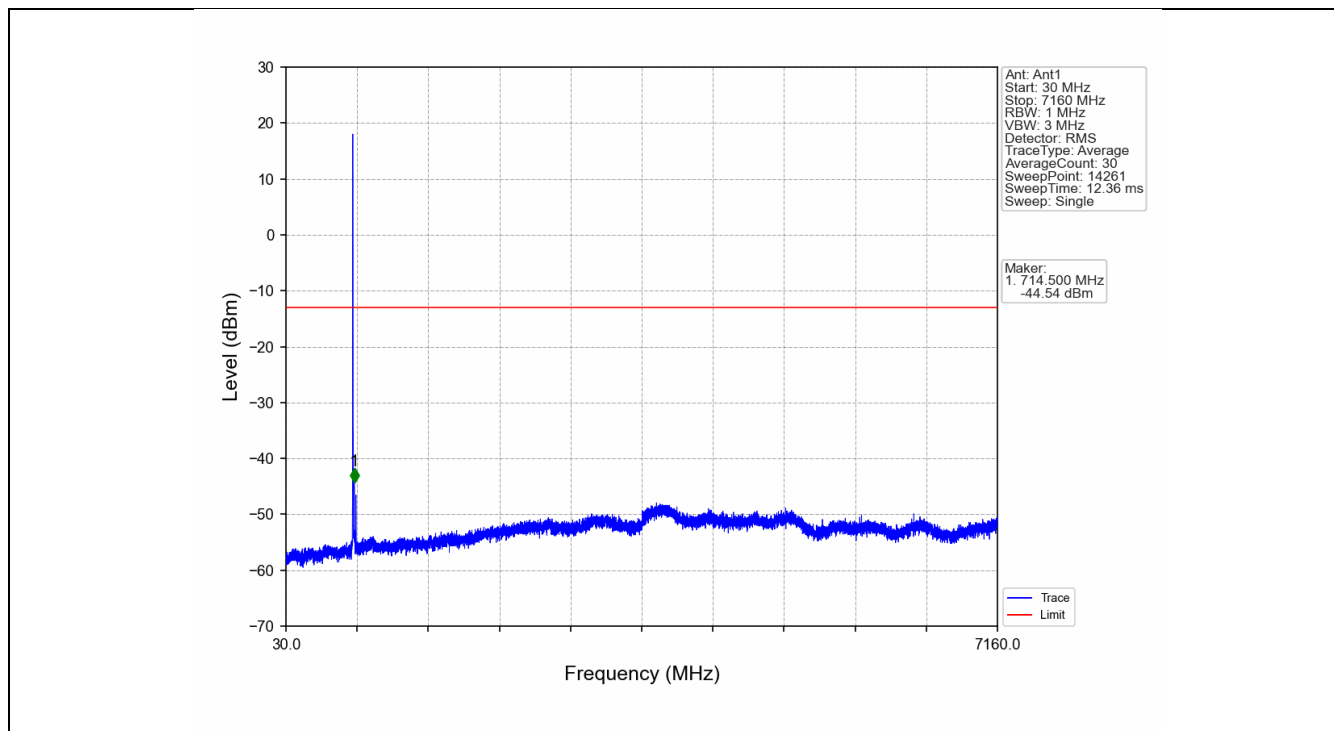
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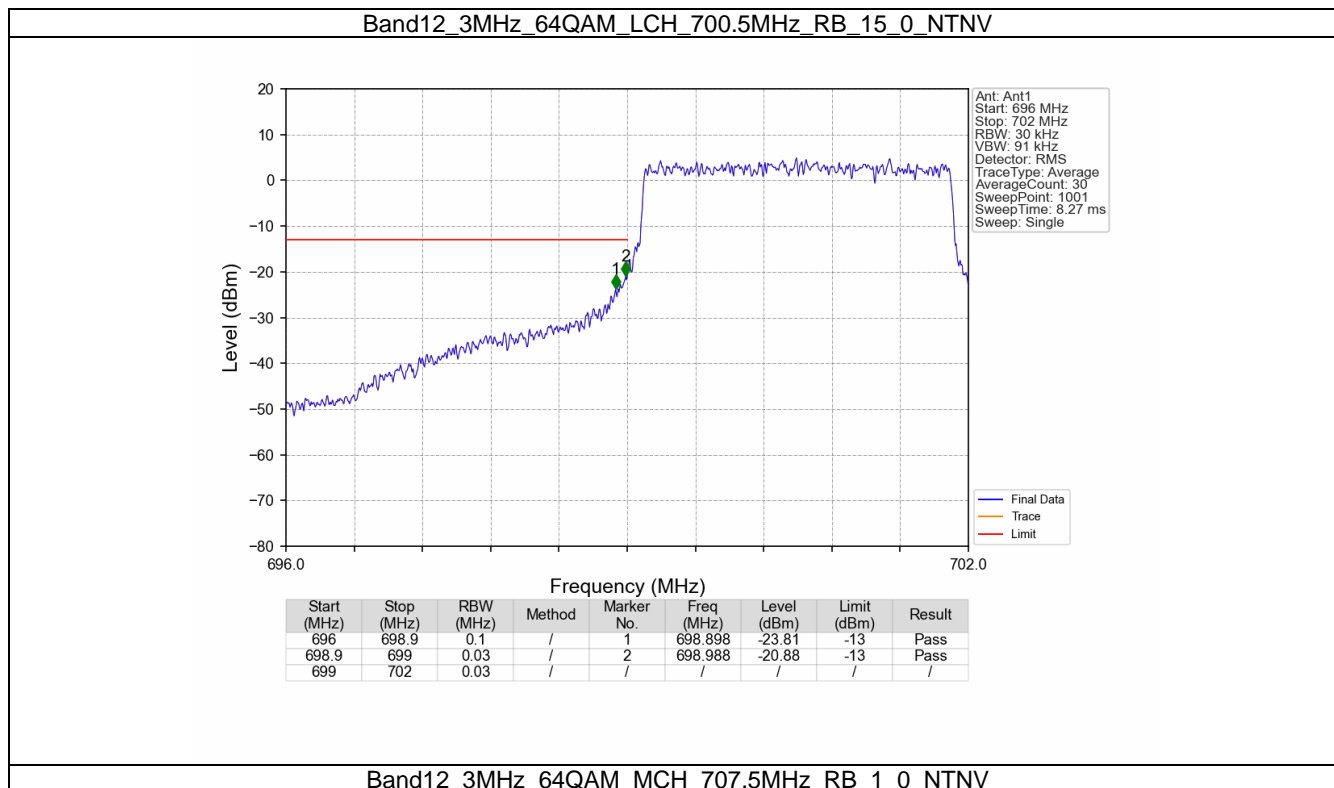
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### 1.2.2 Test Graph

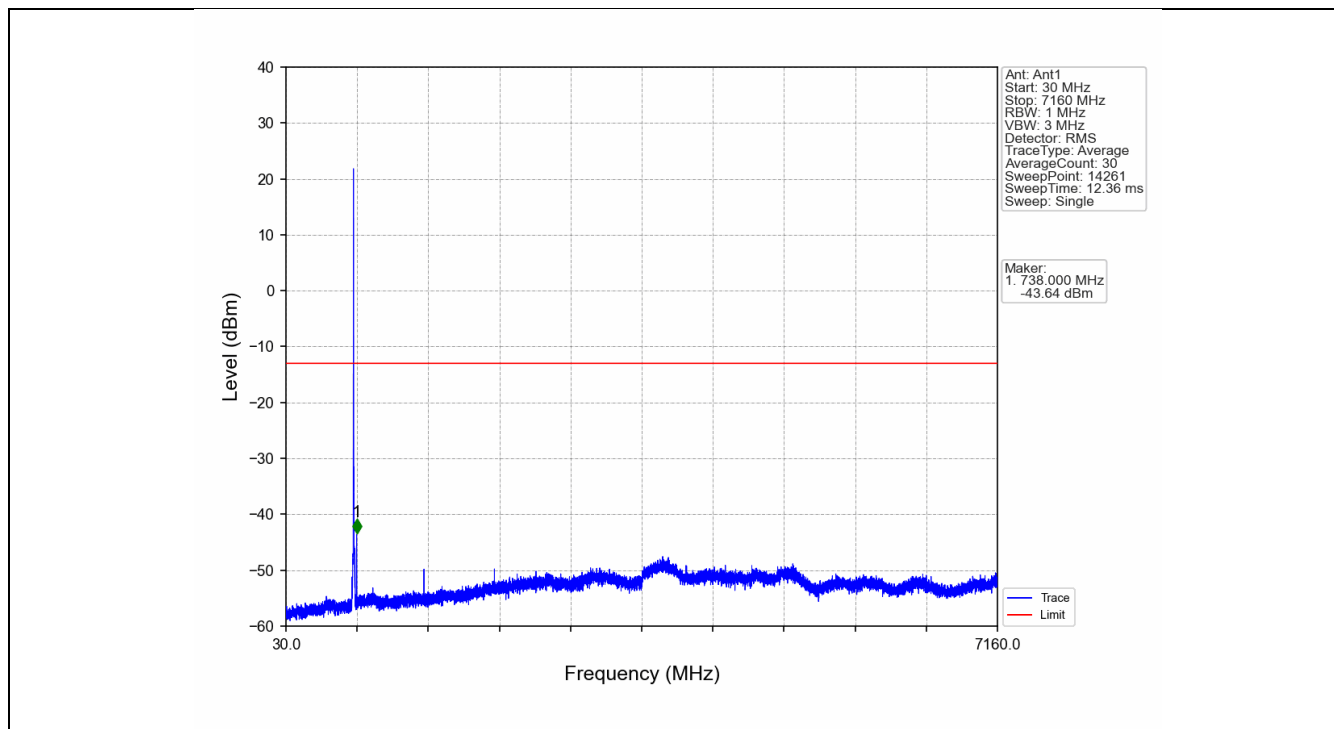


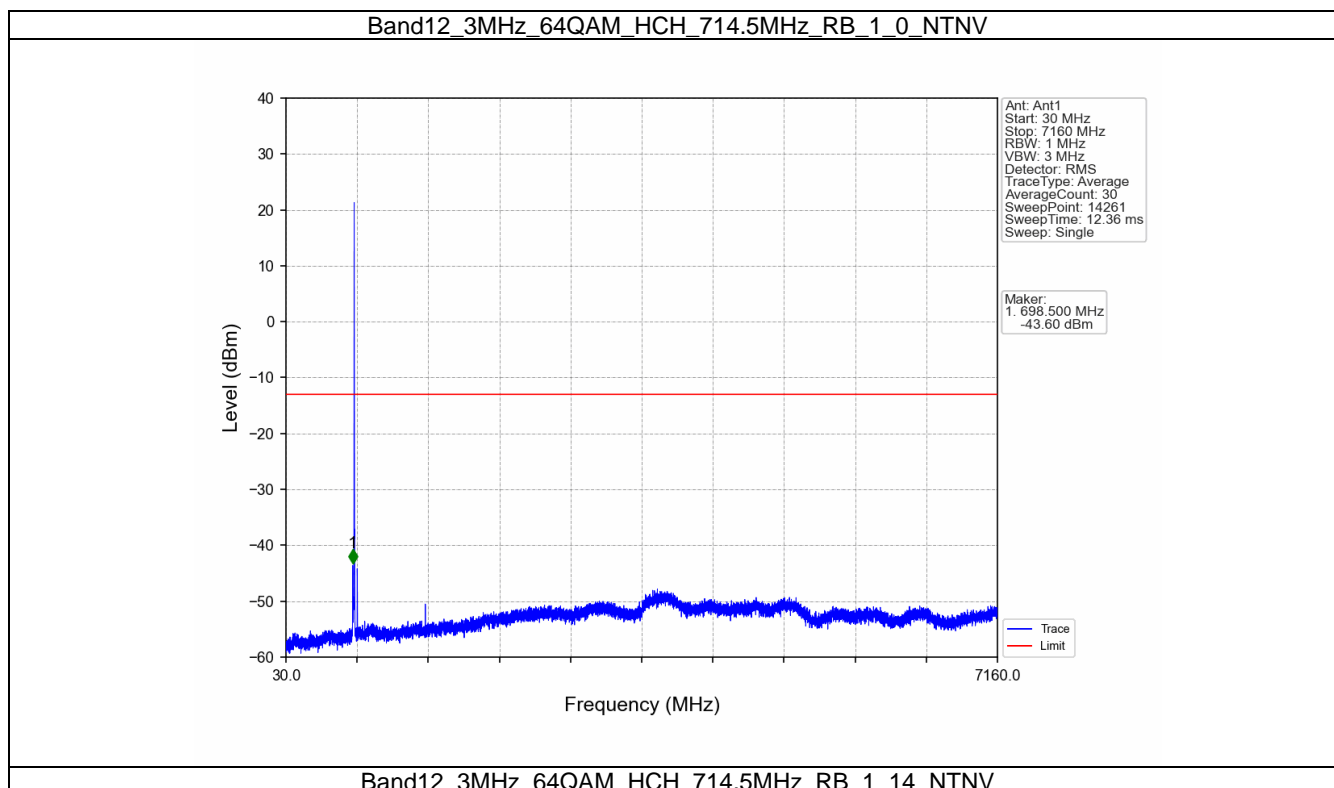




Band12\_3MHz\_64QAM\_MCH\_707.5MHz\_RB\_1\_0\_NTNV







Band12\_3MHz\_64QAM\_HCH\_714.5MHz\_RB\_1\_14\_NTNV



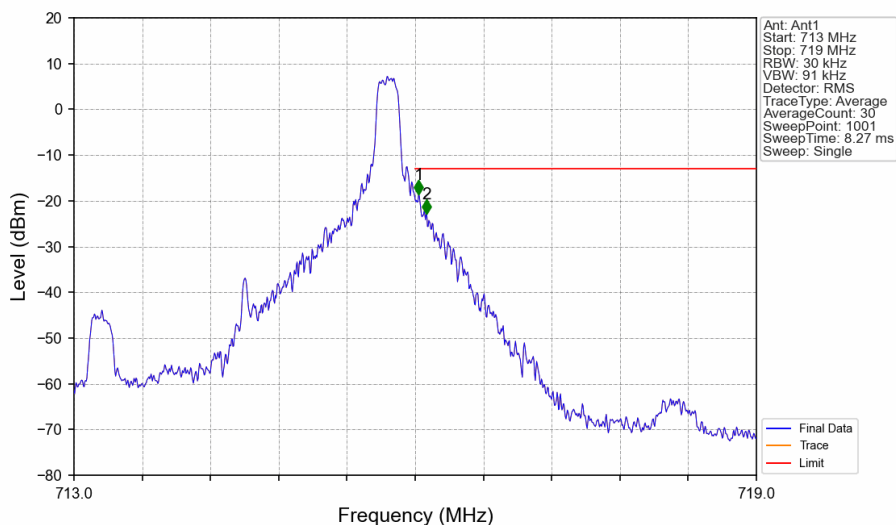
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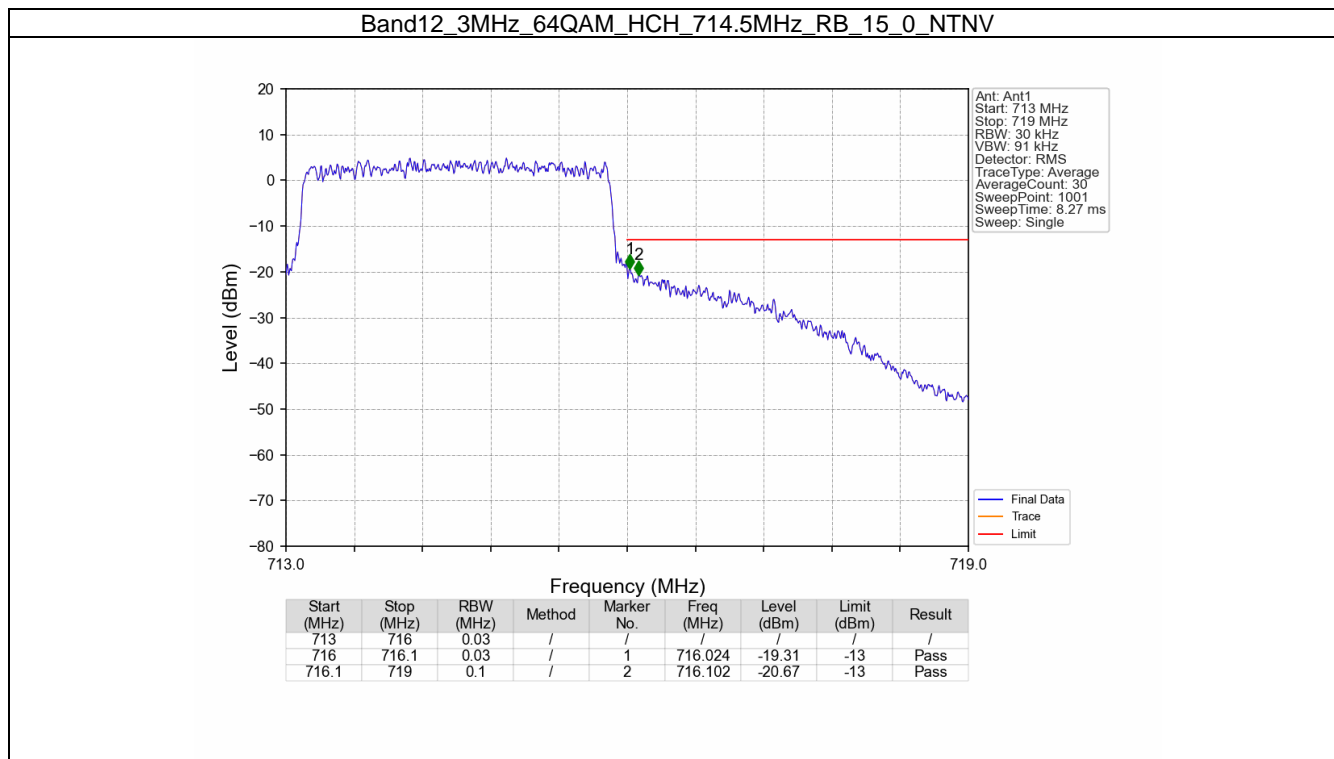
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
713	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.030	-18.69	-13	Pass
716.1	719	0.1	/	2	716.102	-22.92	-13	Pass





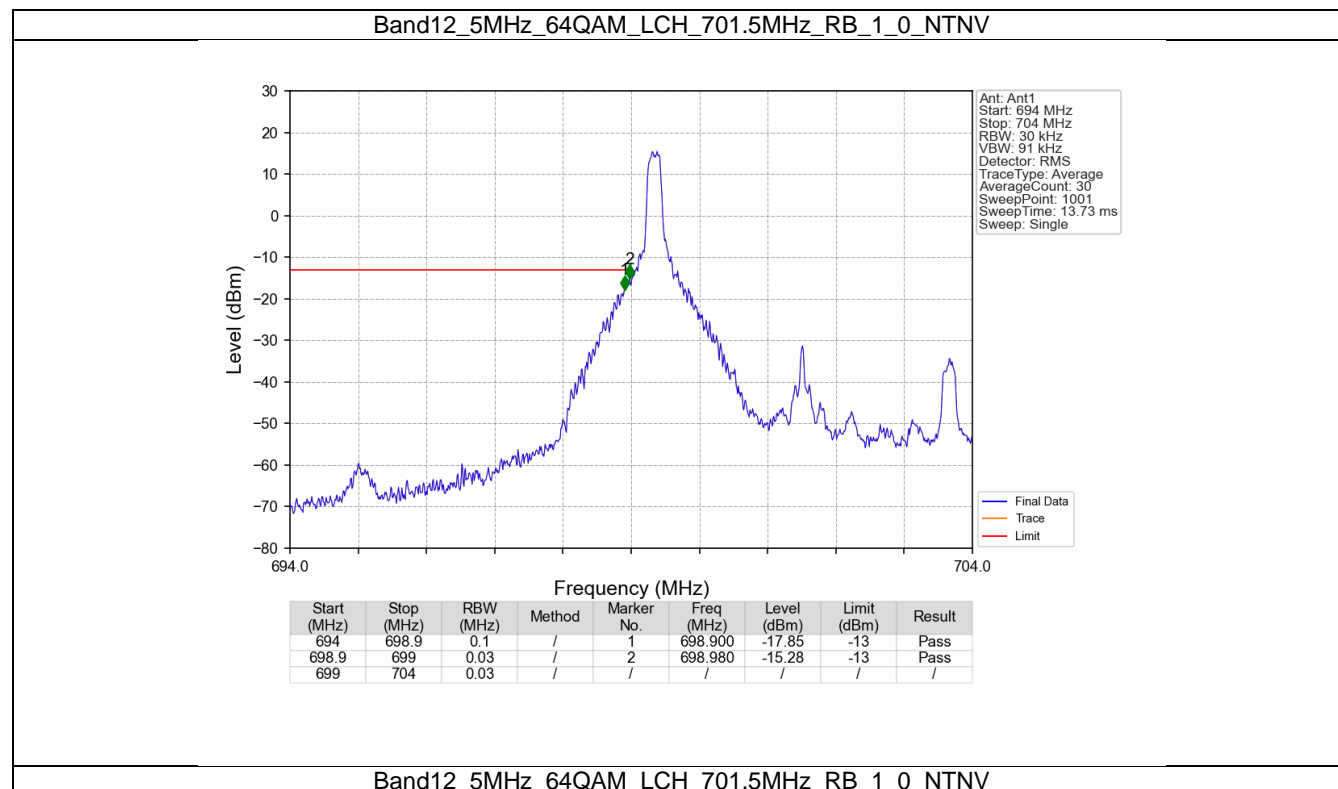
### 1.3 B12\_5MHz

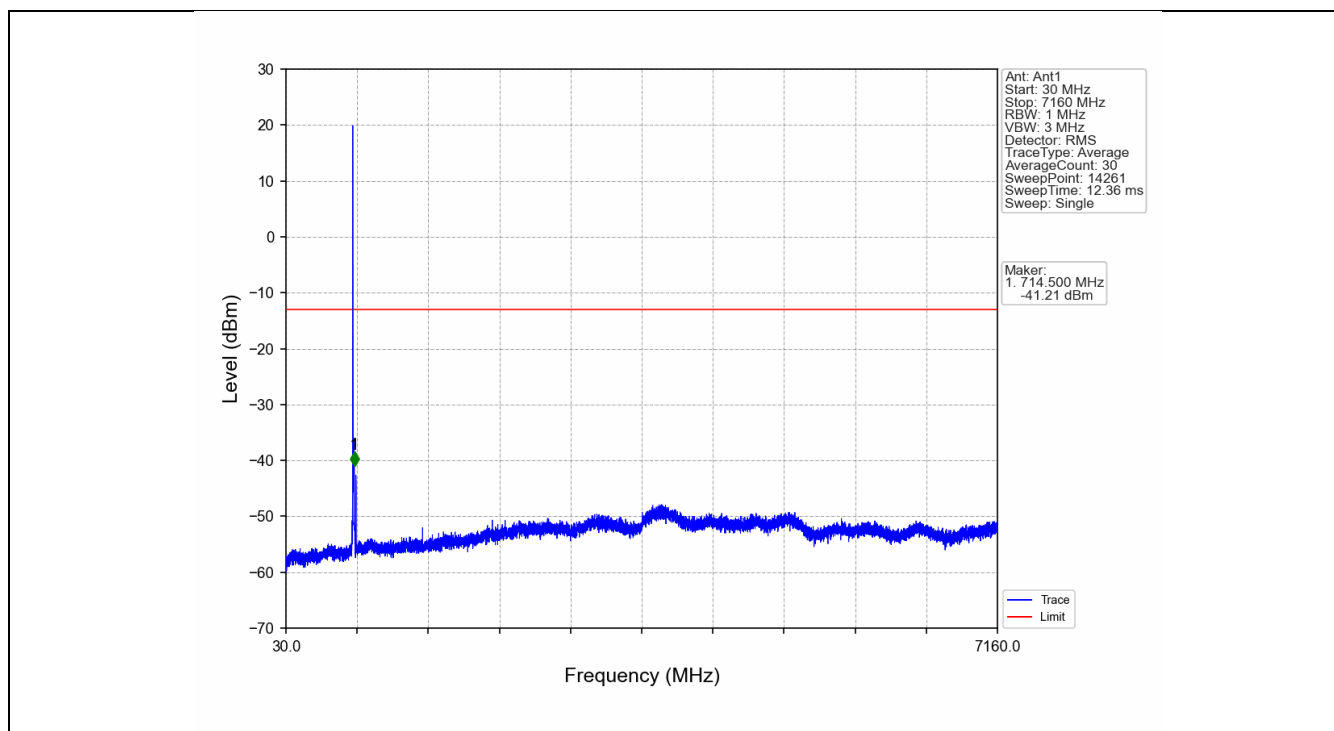
#### 1.3.1 Test Result

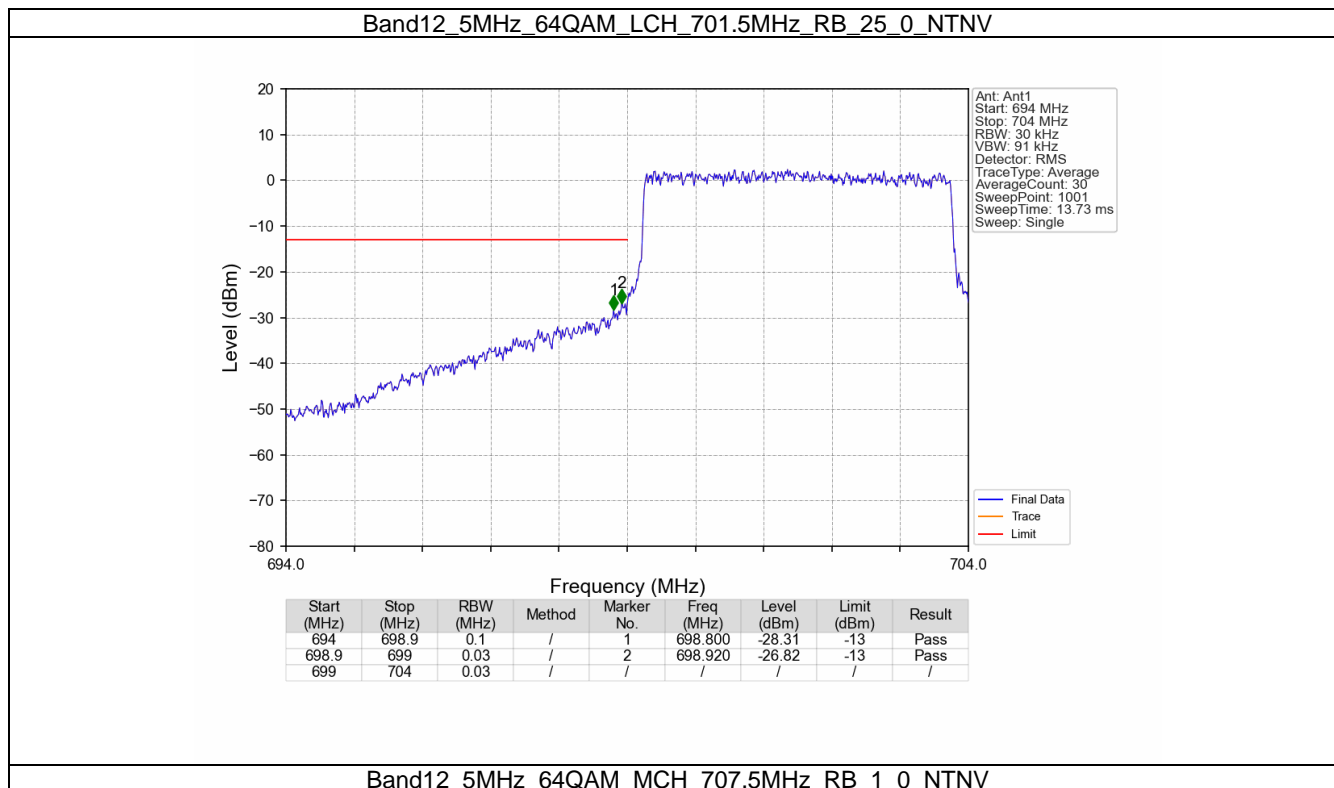
Band: 12 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
64QAM	701.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	707.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



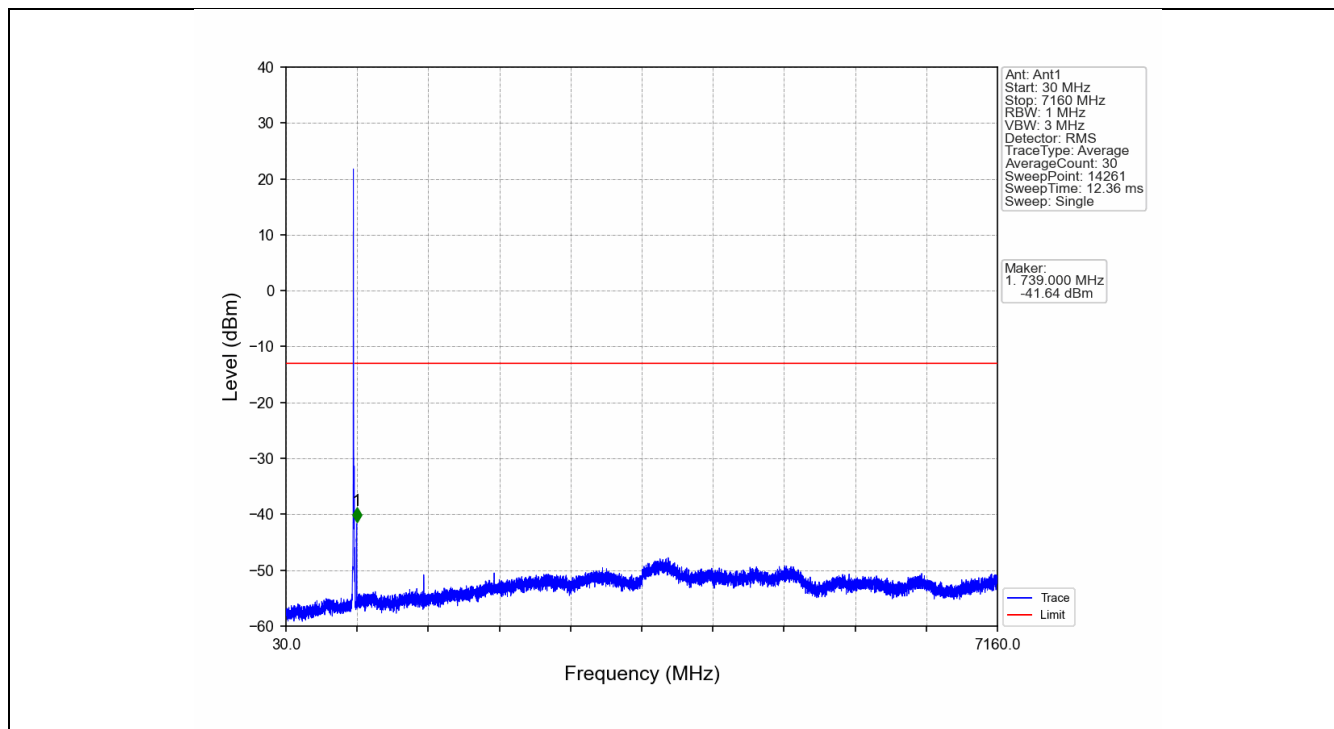
### 1.3.2 Test Graph

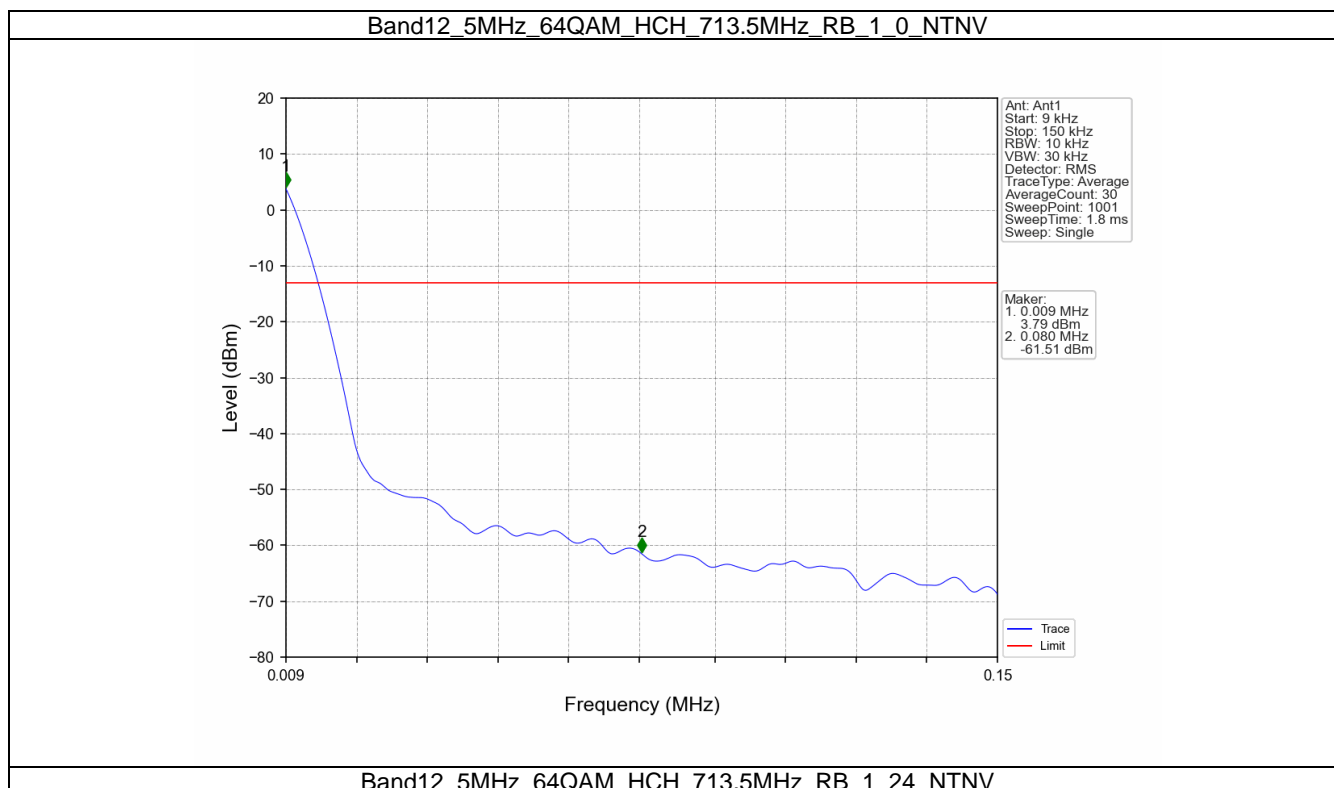






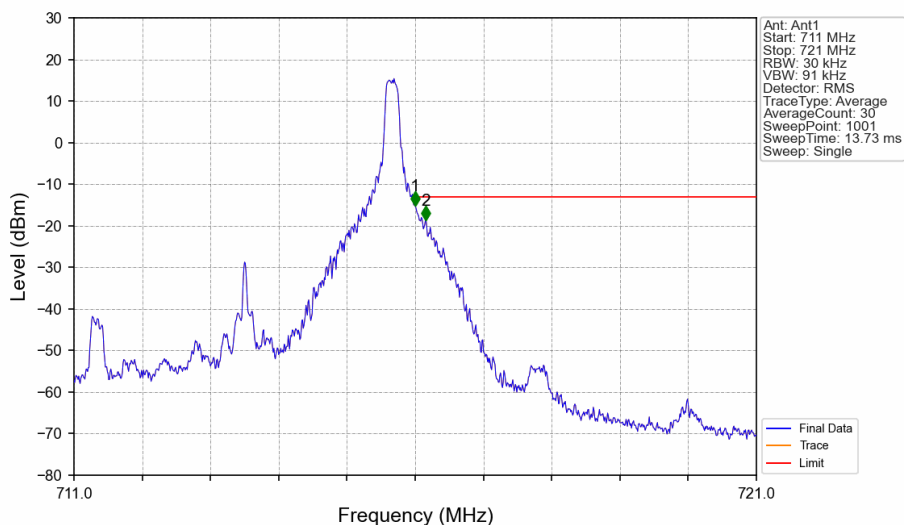






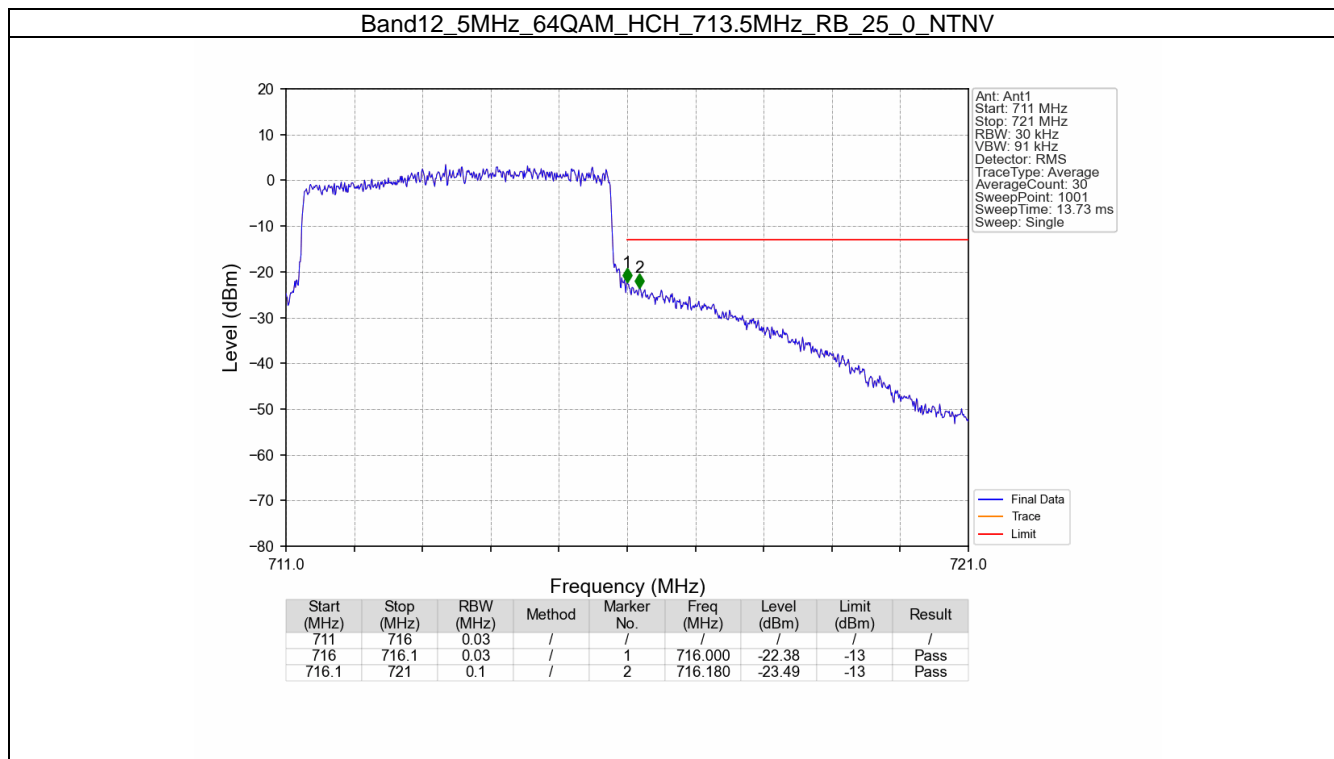
Band12\_5MHz\_64QAM\_HCH\_713.5MHz\_RB\_1\_24\_NTNV





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	-15.28	-13	Pass
716.1	721	0.1	/	2	716.150	-18.69	-13	Pass







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### 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	
64QAM	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	
	49			Refer To Test Graph		Pass
	50		0	Refer To Test Graph		Pass



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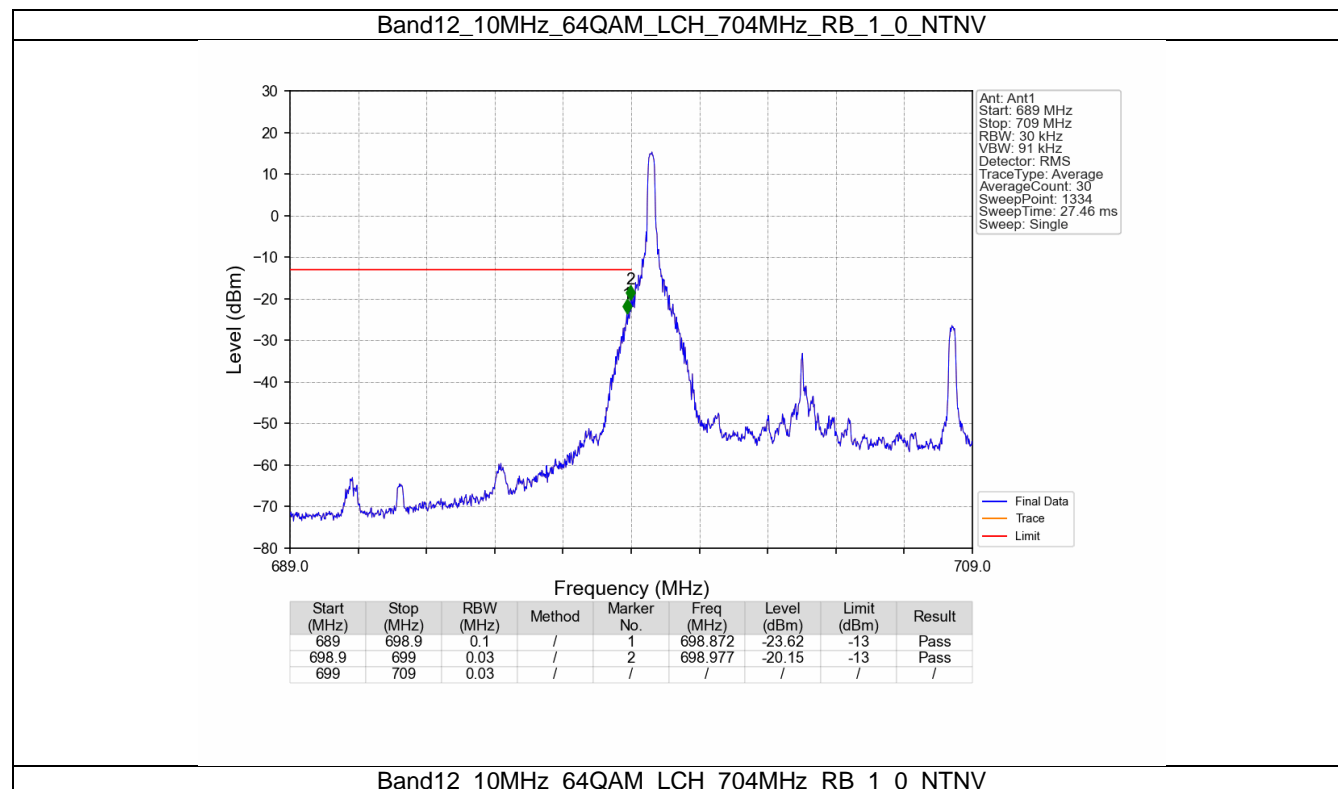
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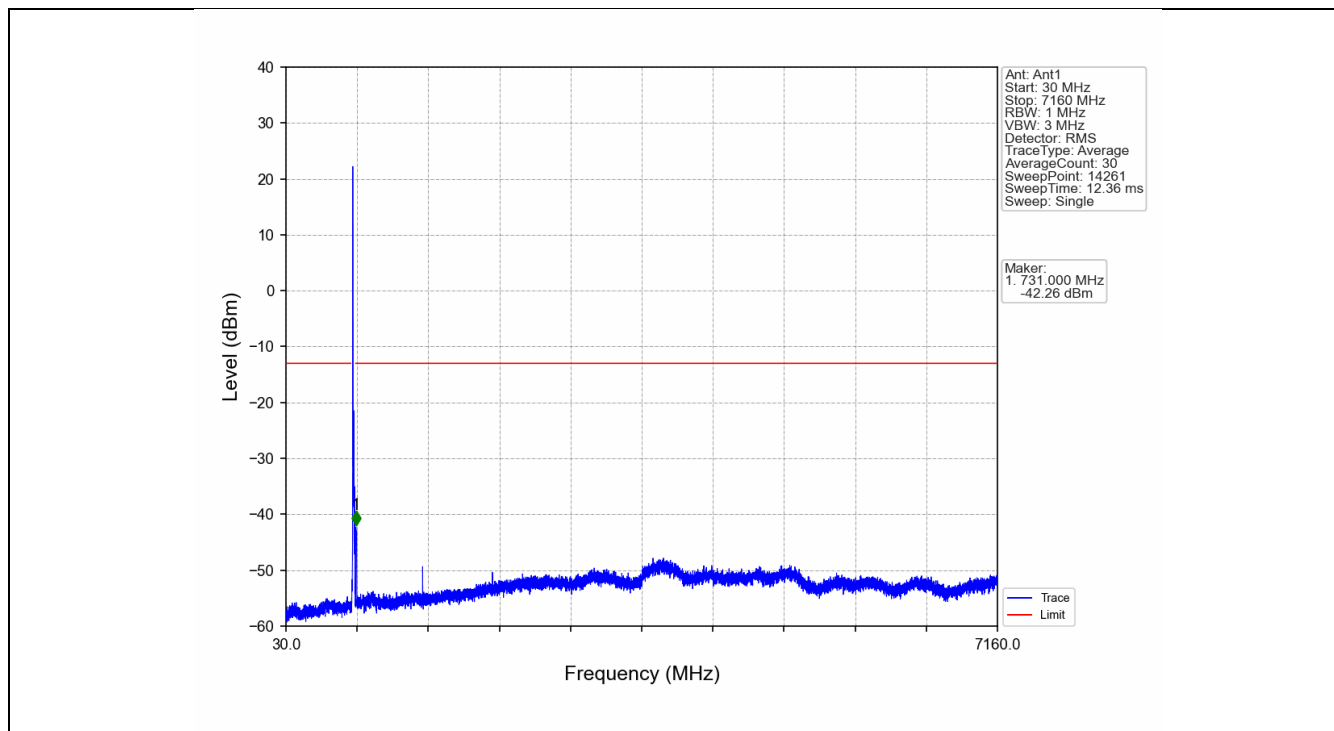
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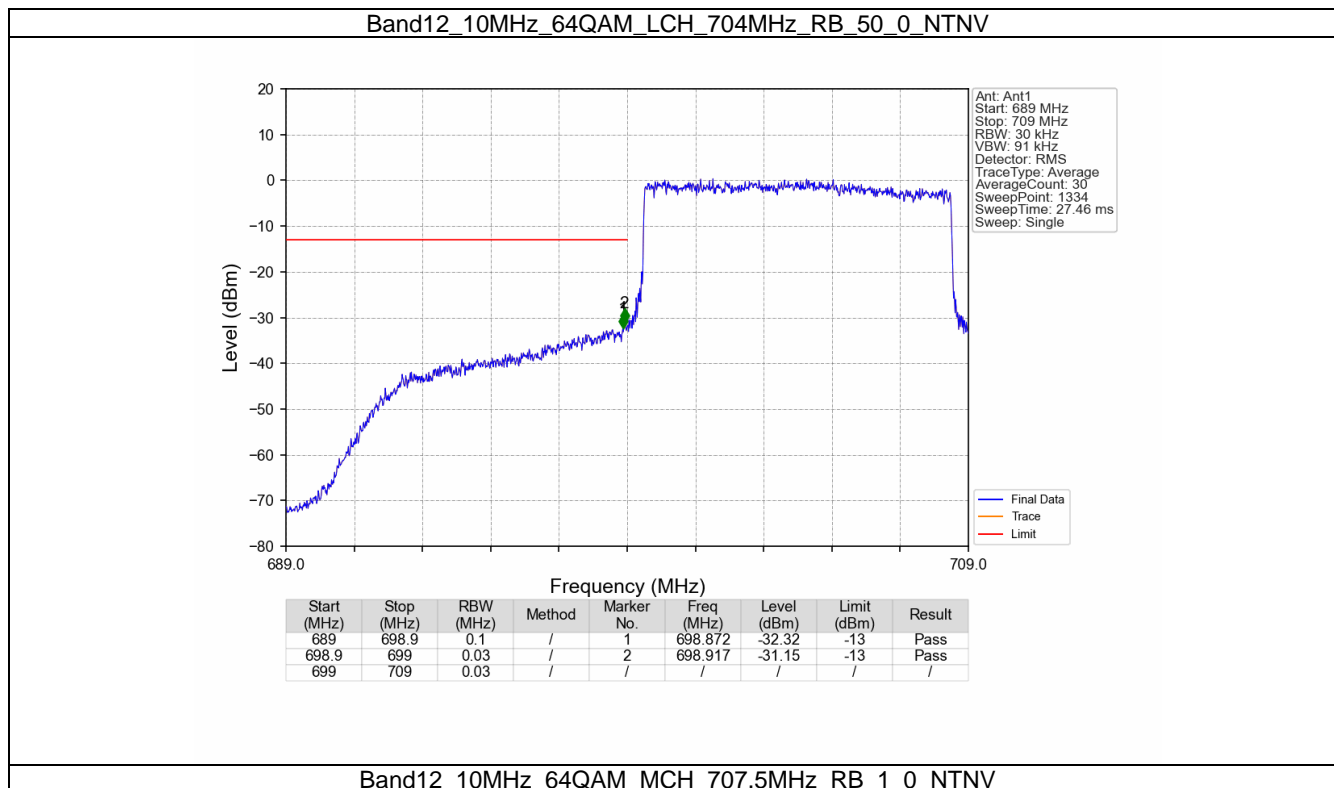
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### 1.4.2 Test Graph



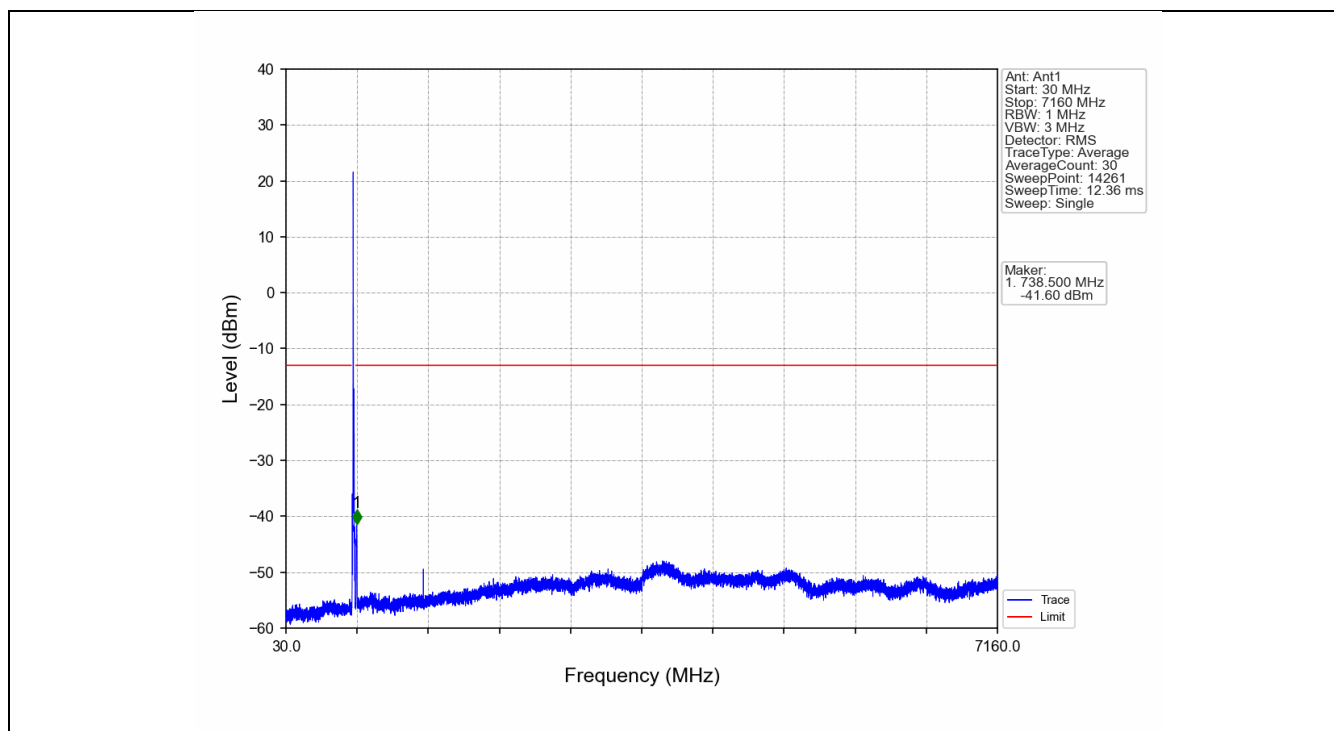


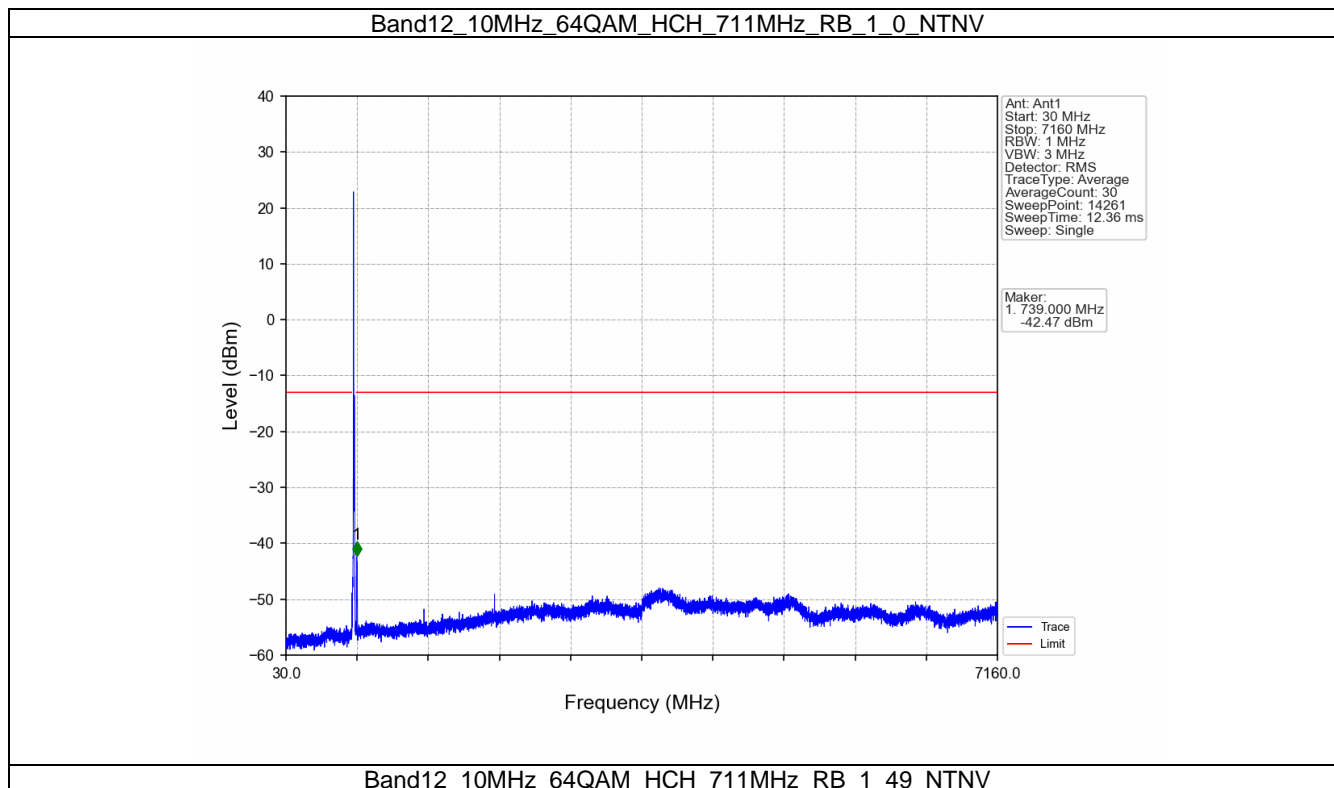


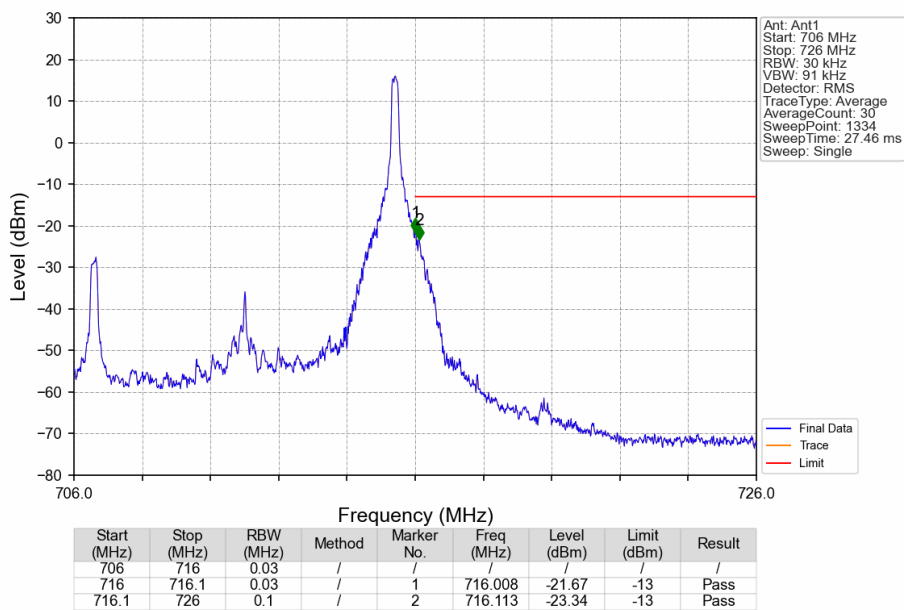


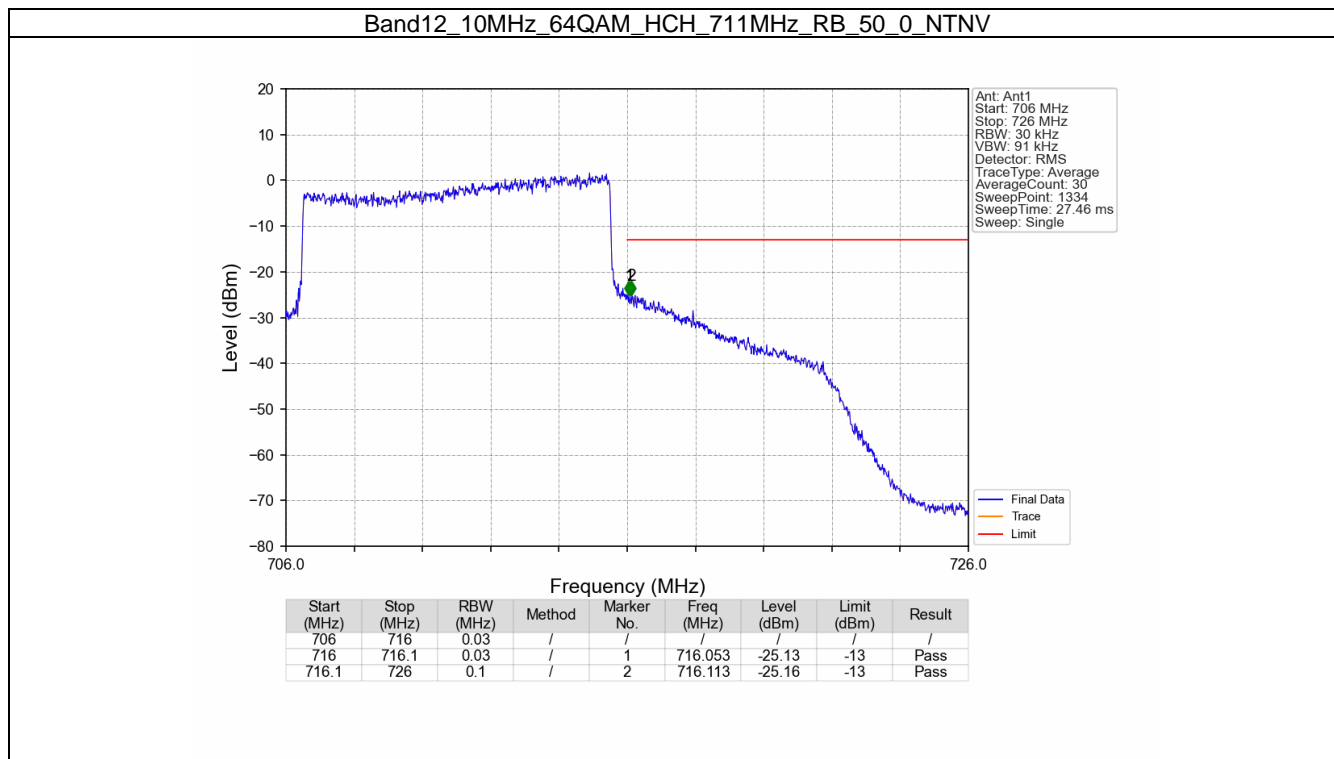
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## 2. Spurious Emission

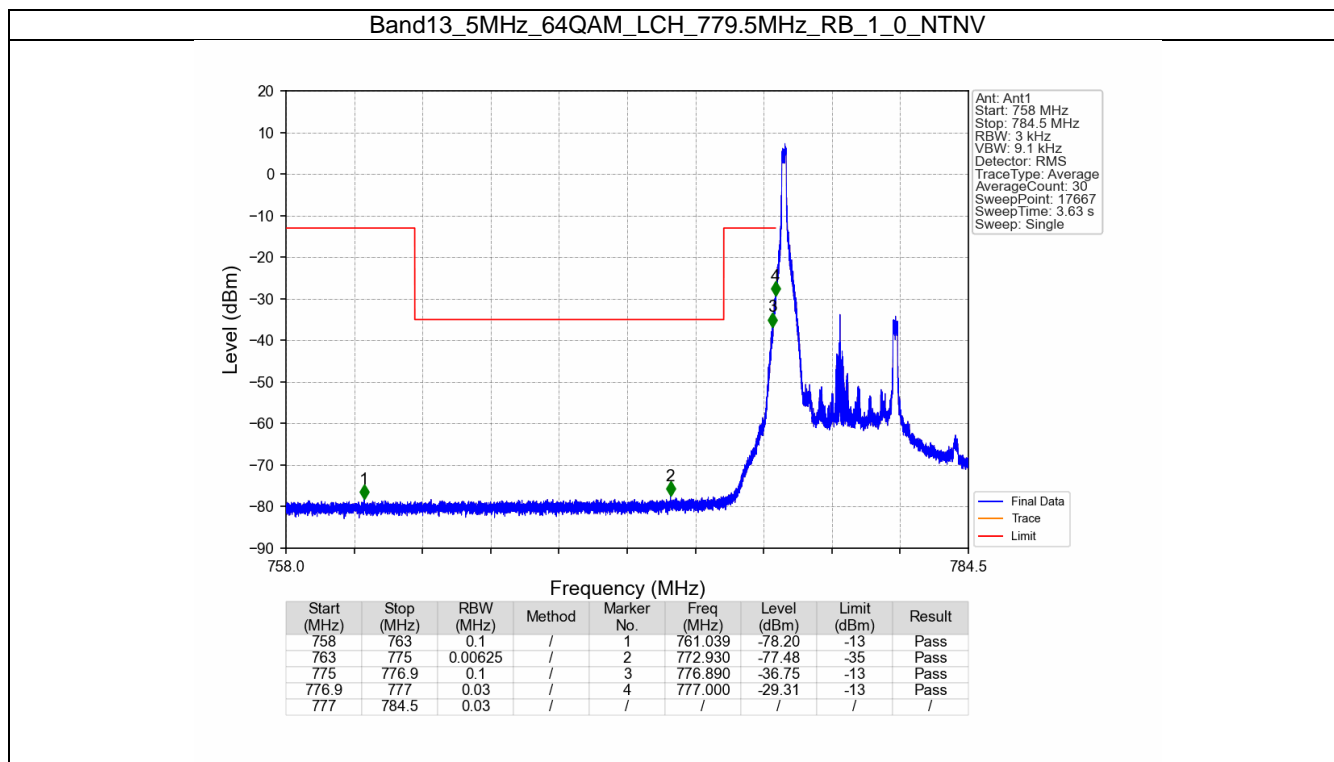
### 2.1 B13\_5MHz

#### 2.1.1 Test Result

Band: 13 / Bandwidth: 5MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
64QAM	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



### 2.1.2 Test Graph



Band13\_5MHz\_64QAM\_LCH\_779.5MHz\_RB\_1\_0\_NTNV

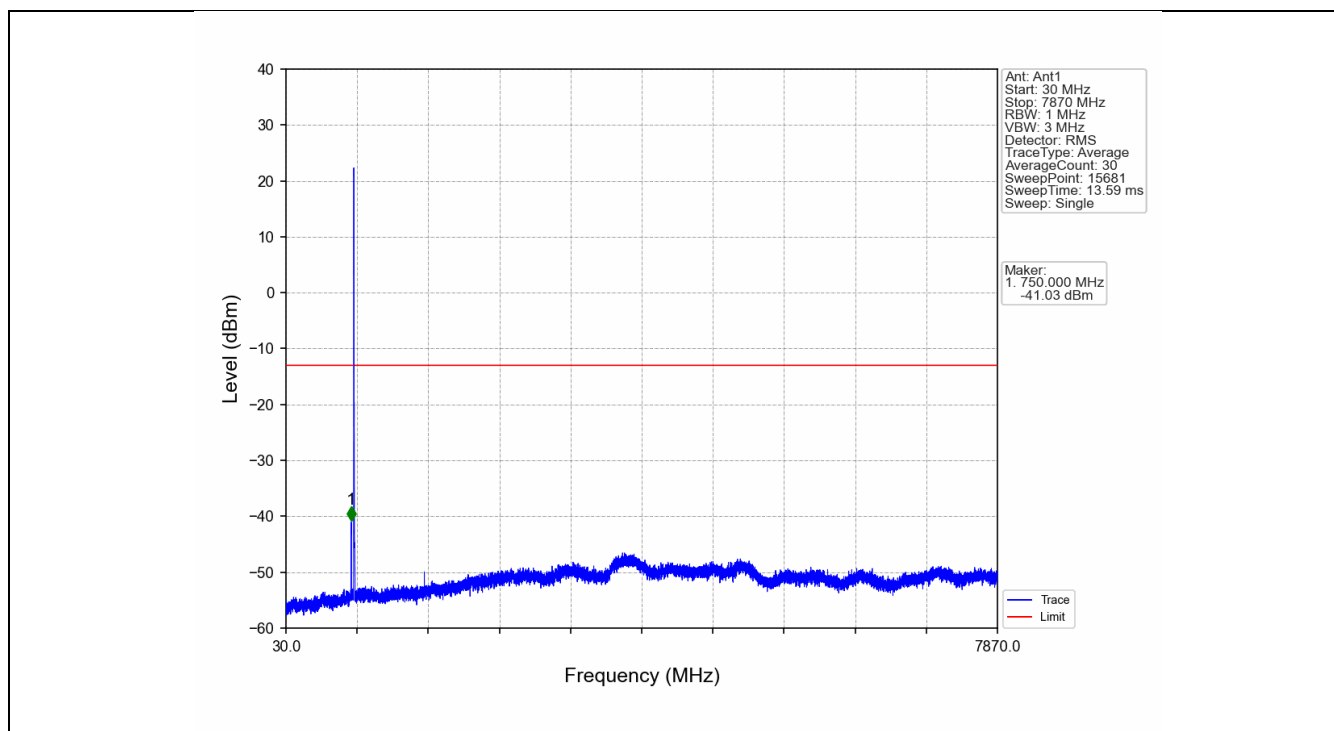


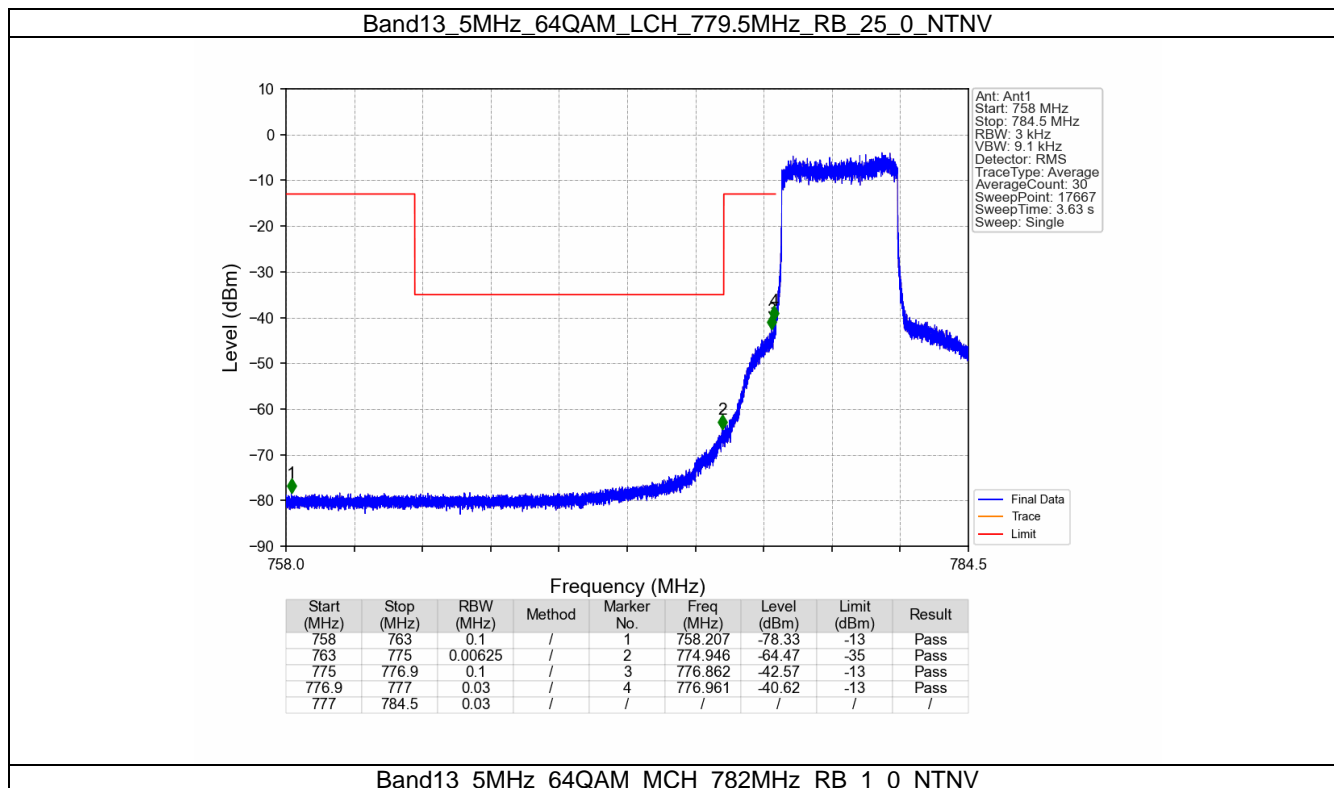
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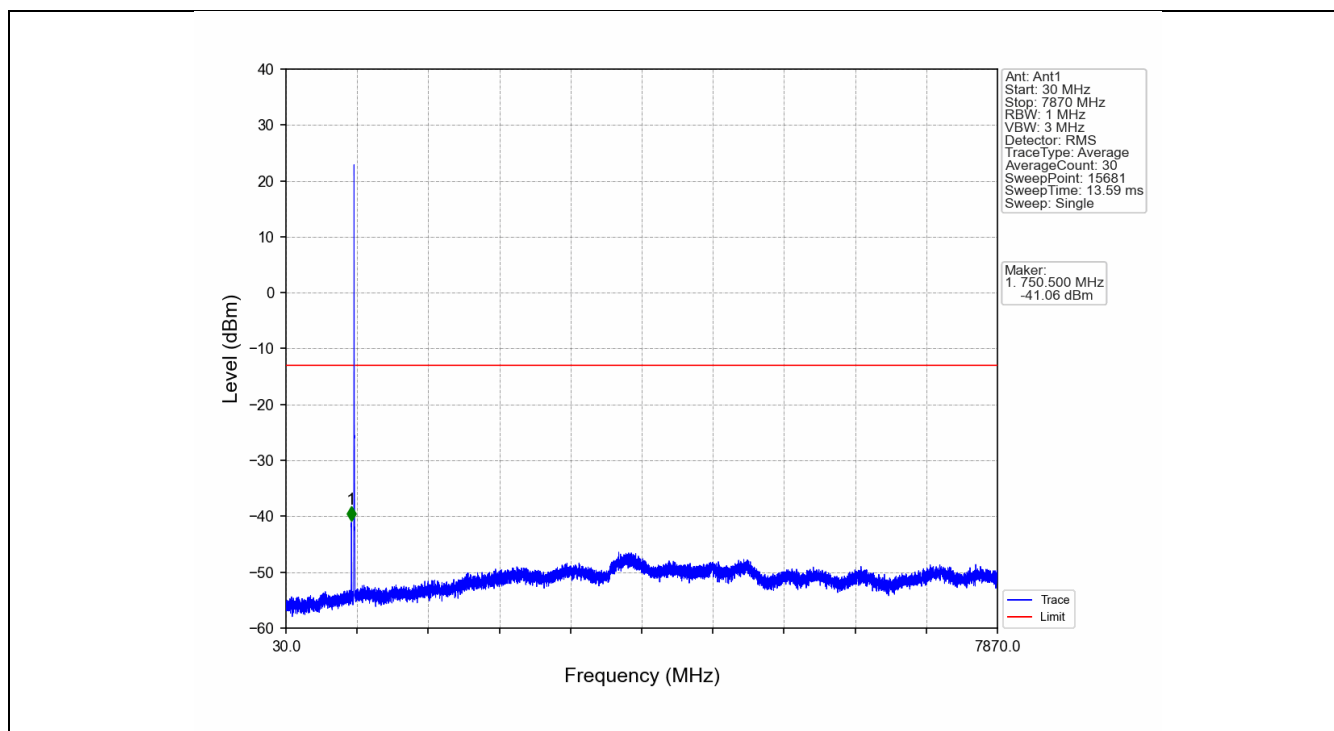
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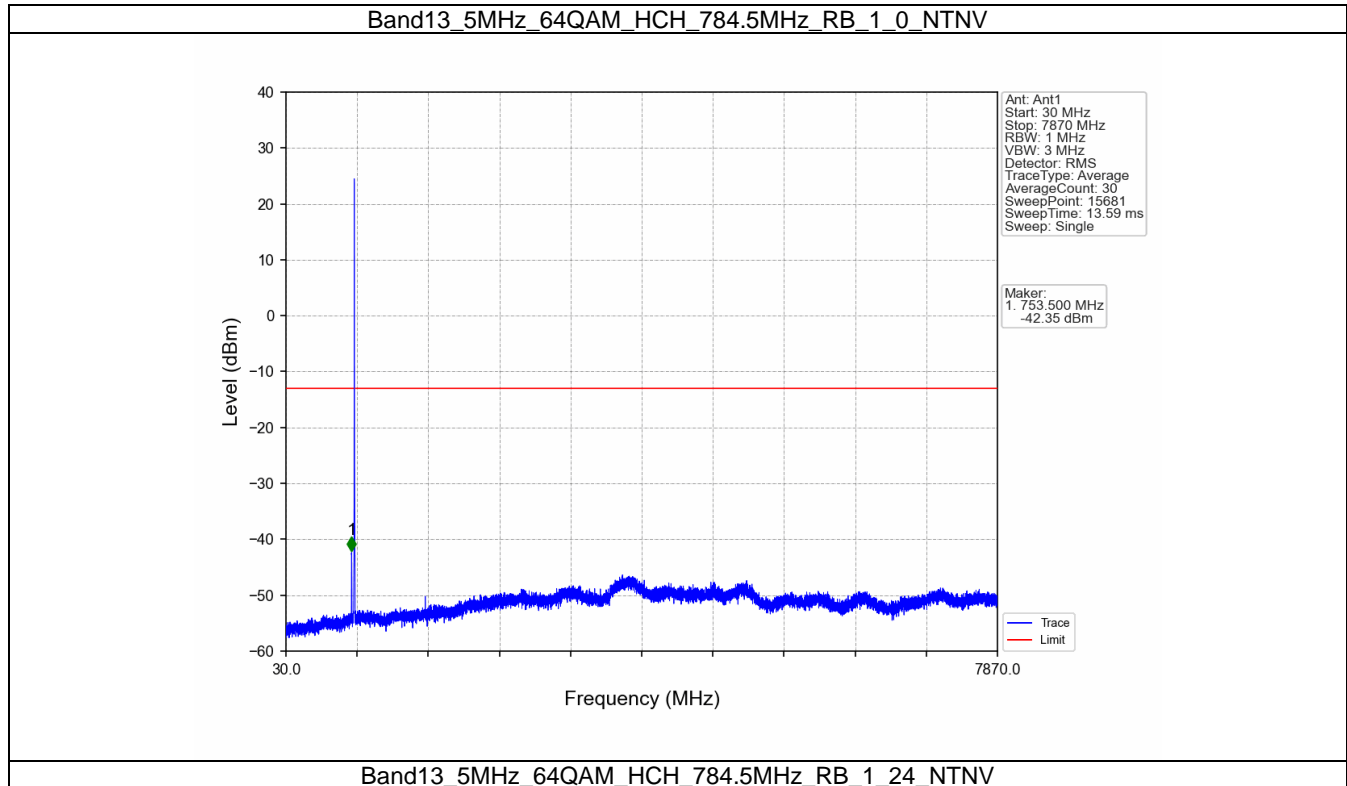
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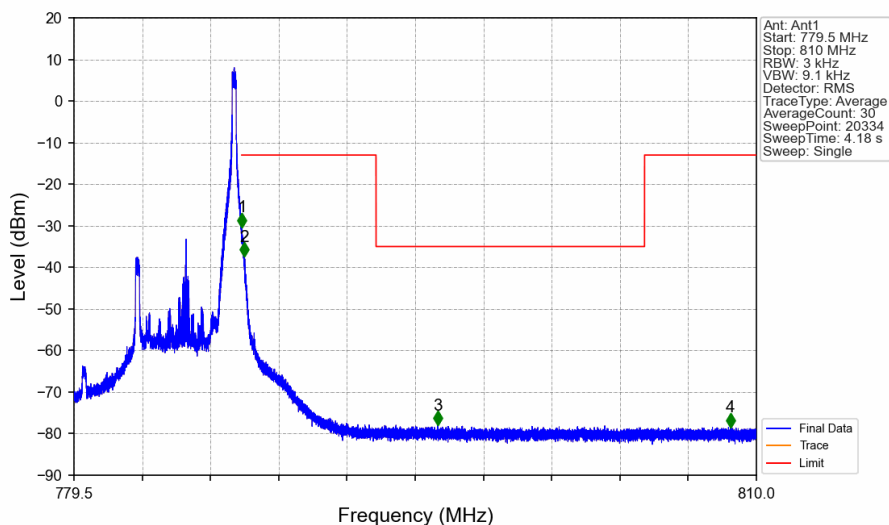






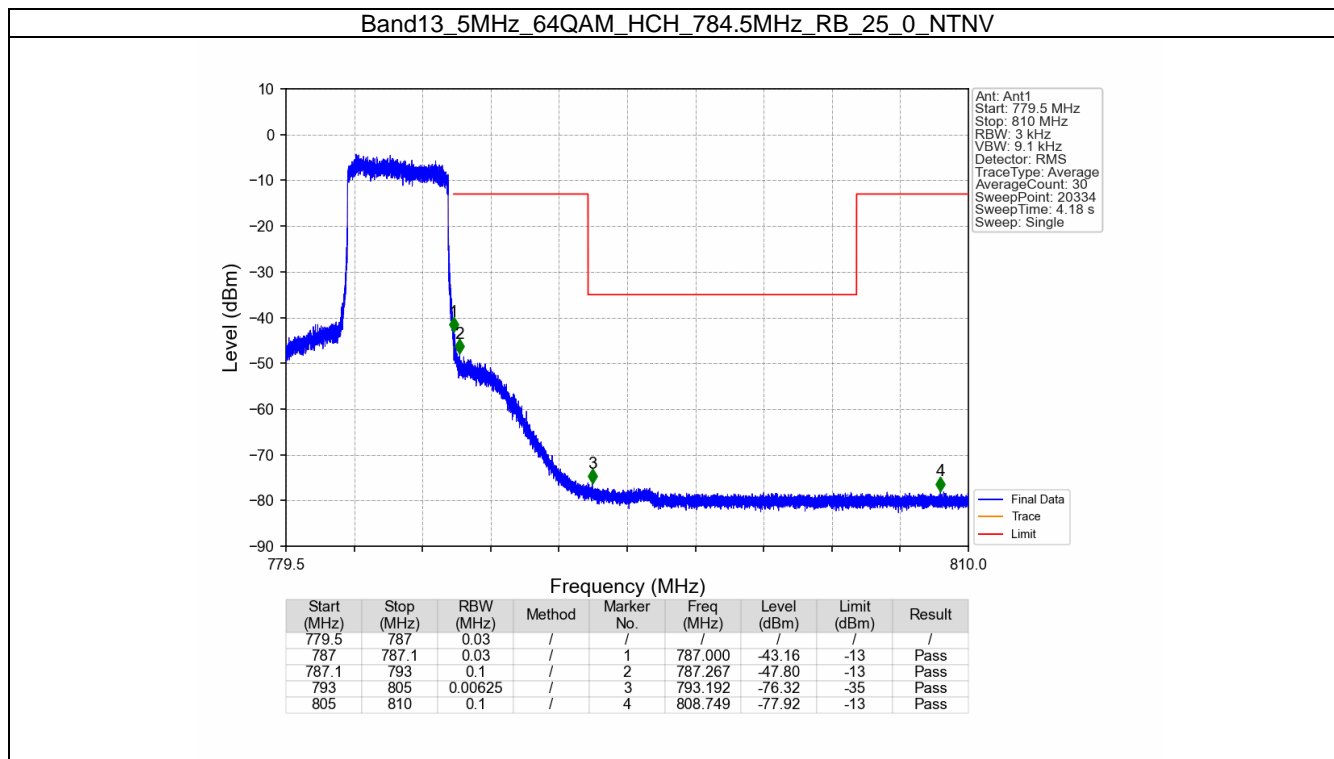






Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.014	-30.36	-13	Pass
787.1	793	0.1	/	2	787.111	-37.47	-13	Pass
793	805	0.00625	/	3	795.757	-77.94	-35	Pass
805	810	0.1	/	4	808.846	-78.46	-13	Pass





### 2.2 B13\_10MHz

#### 2.2.1 Test Result

Band: 13 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
64QAM	782	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass



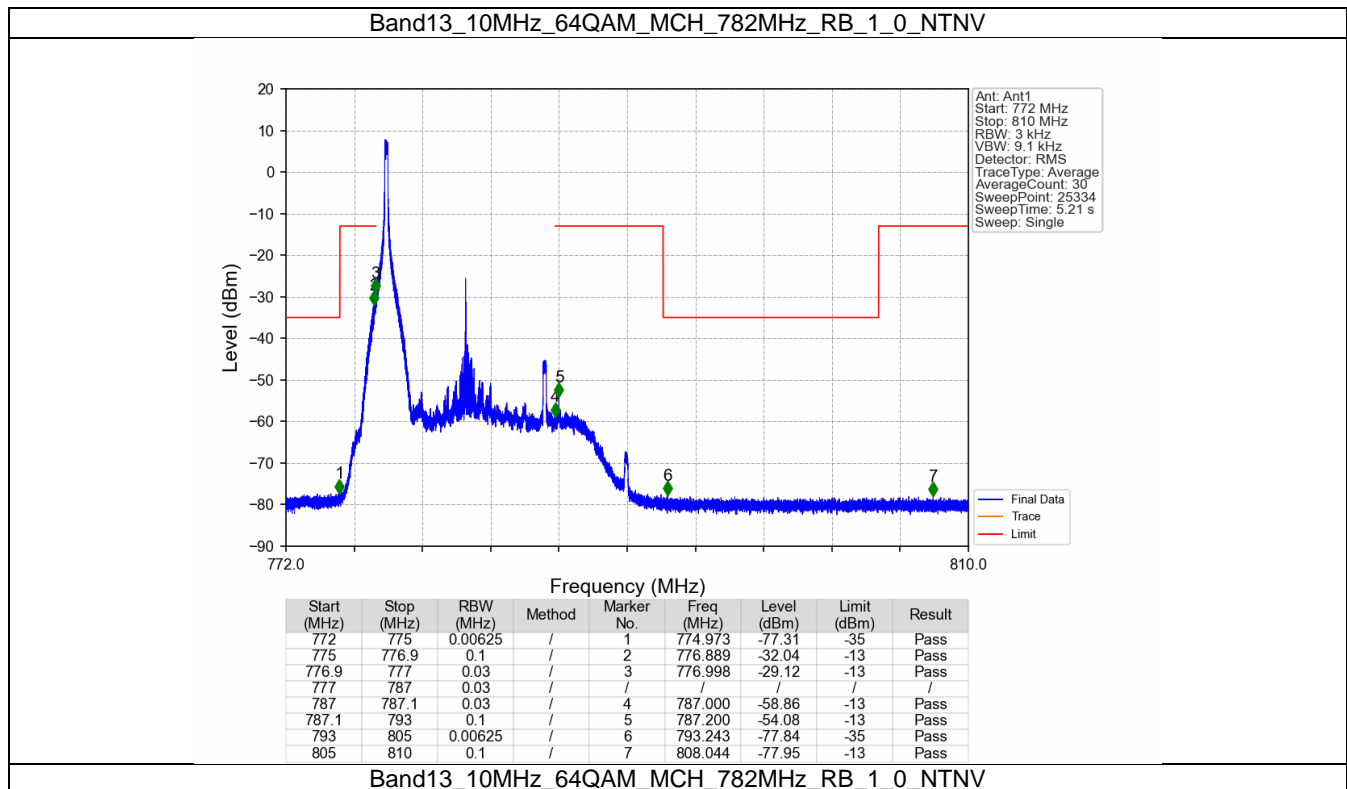
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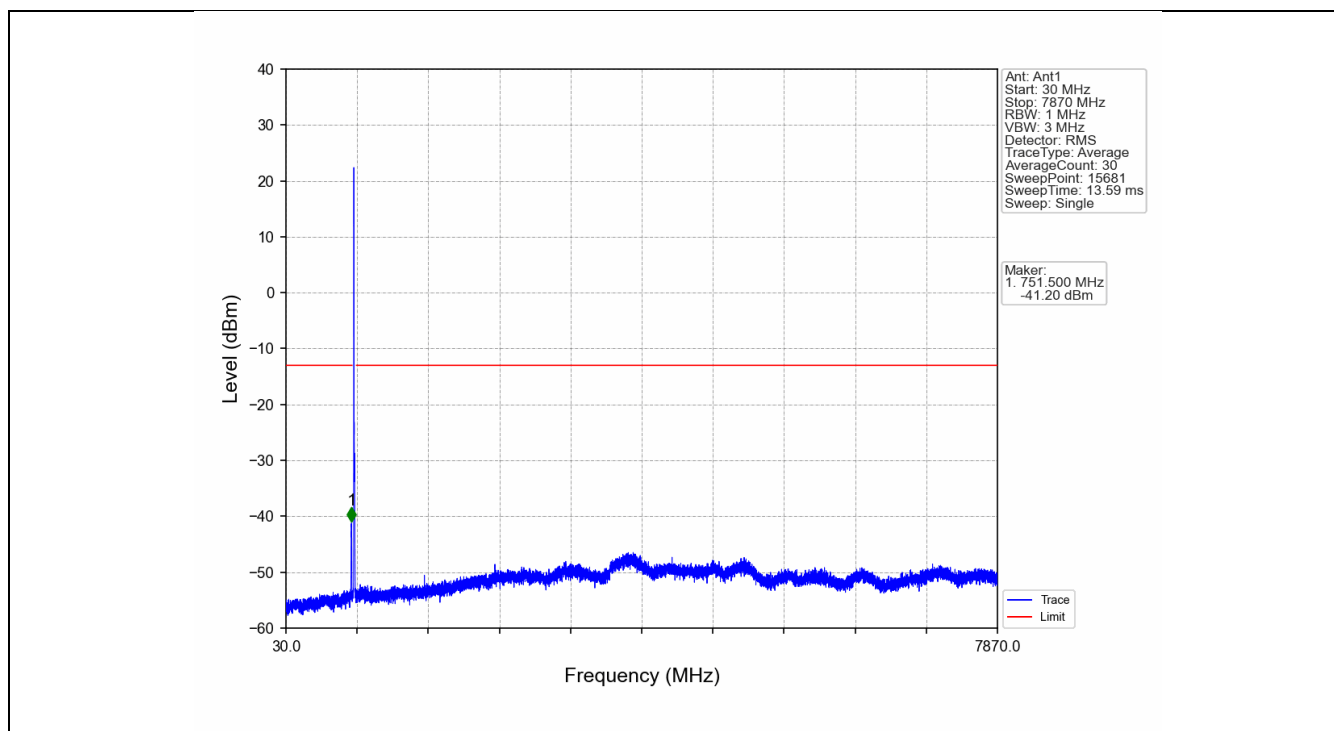
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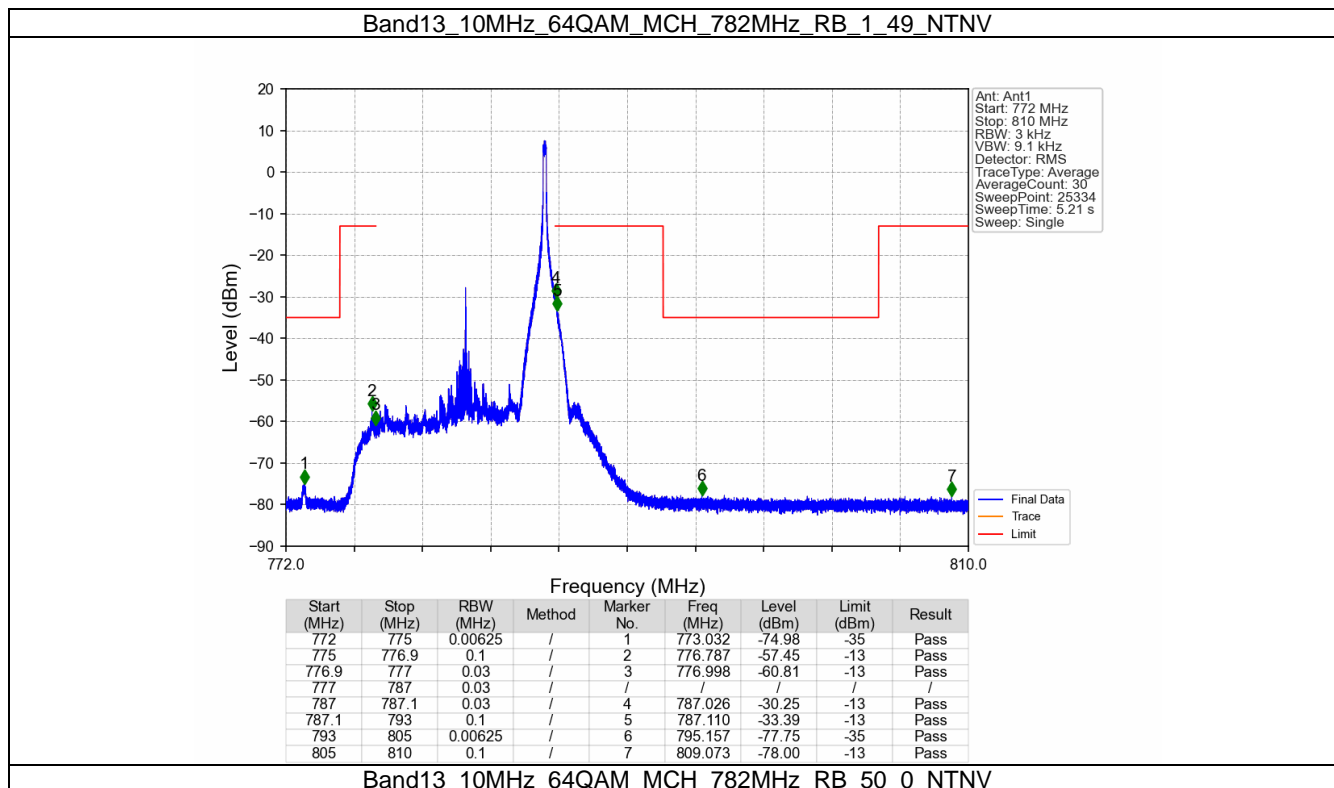
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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

### 2.2.2 Test Graph

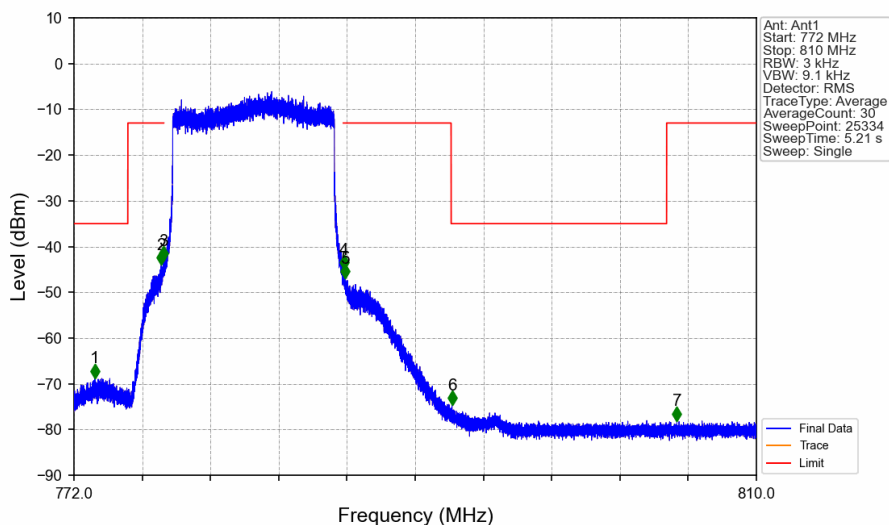












Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	773.167	-68.76	-35	Pass
775	776.9	0.1	/	2	776.860	-43.93	-13	Pass
776.9	777	0.03	/	3	776.985	-43.03	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.045	-45.02	-13	Pass
787.1	793	0.1	/	5	787.108	-46.95	-13	Pass
793	805	0.00625	/	6	793.048	-74.65	-35	Pass
805	810	0.1	/	7	805.575	-78.10	-13	Pass



### 3. Spurious Emission

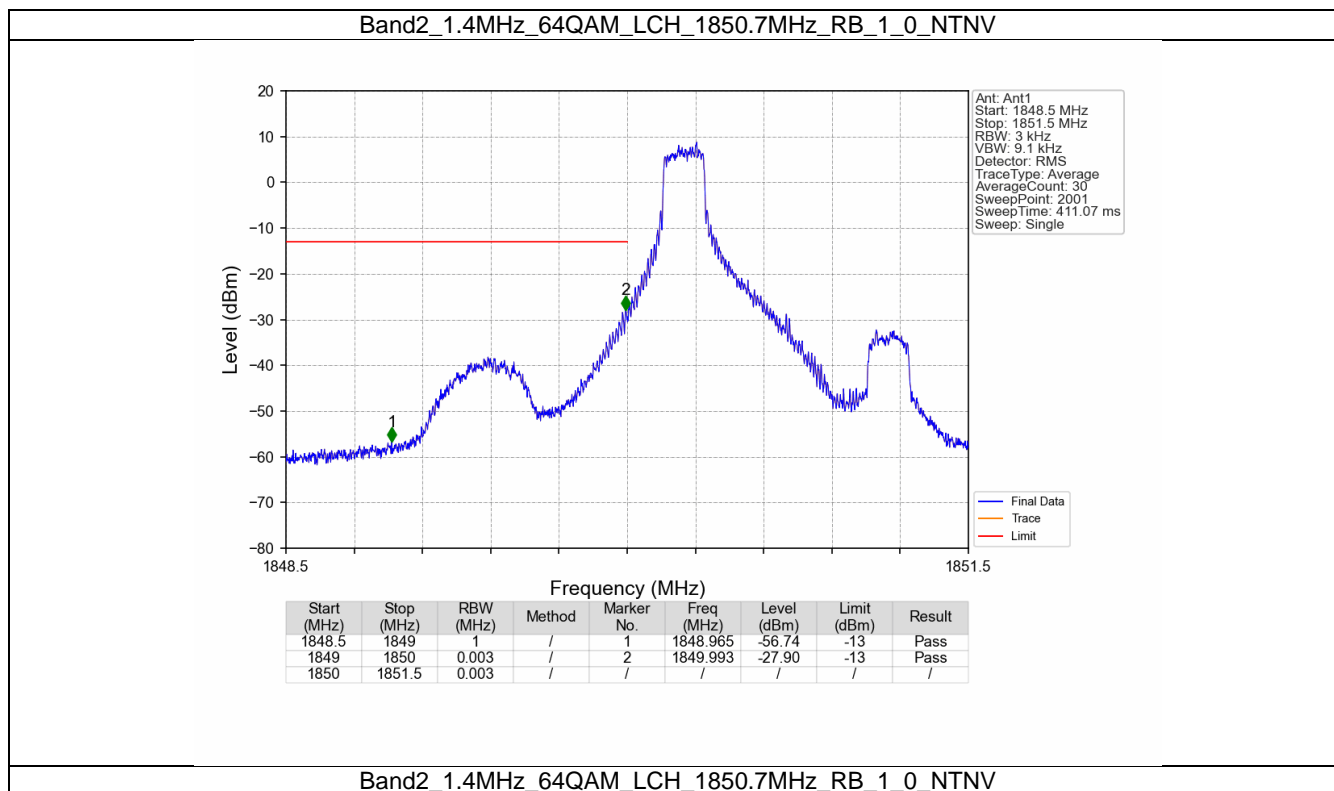
#### 3.1 B2\_1.4MHz

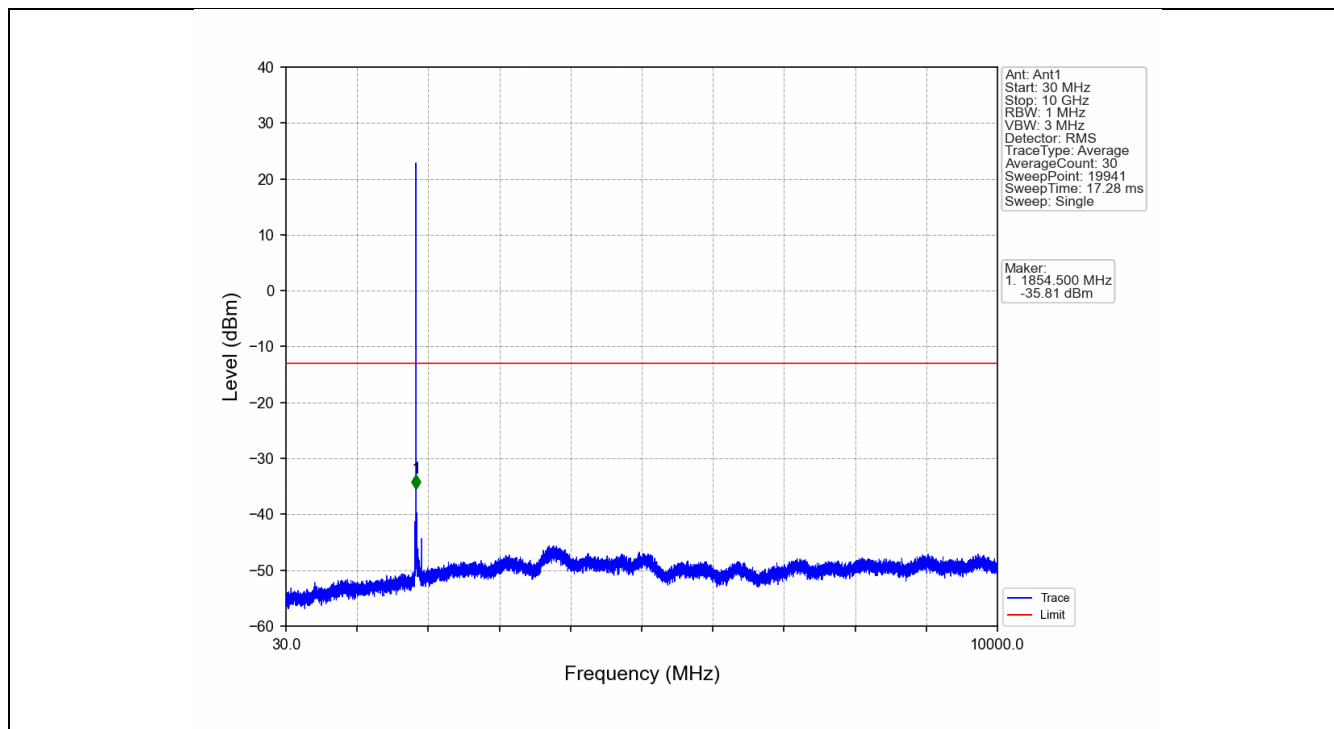
##### 3.1.1 Test Result

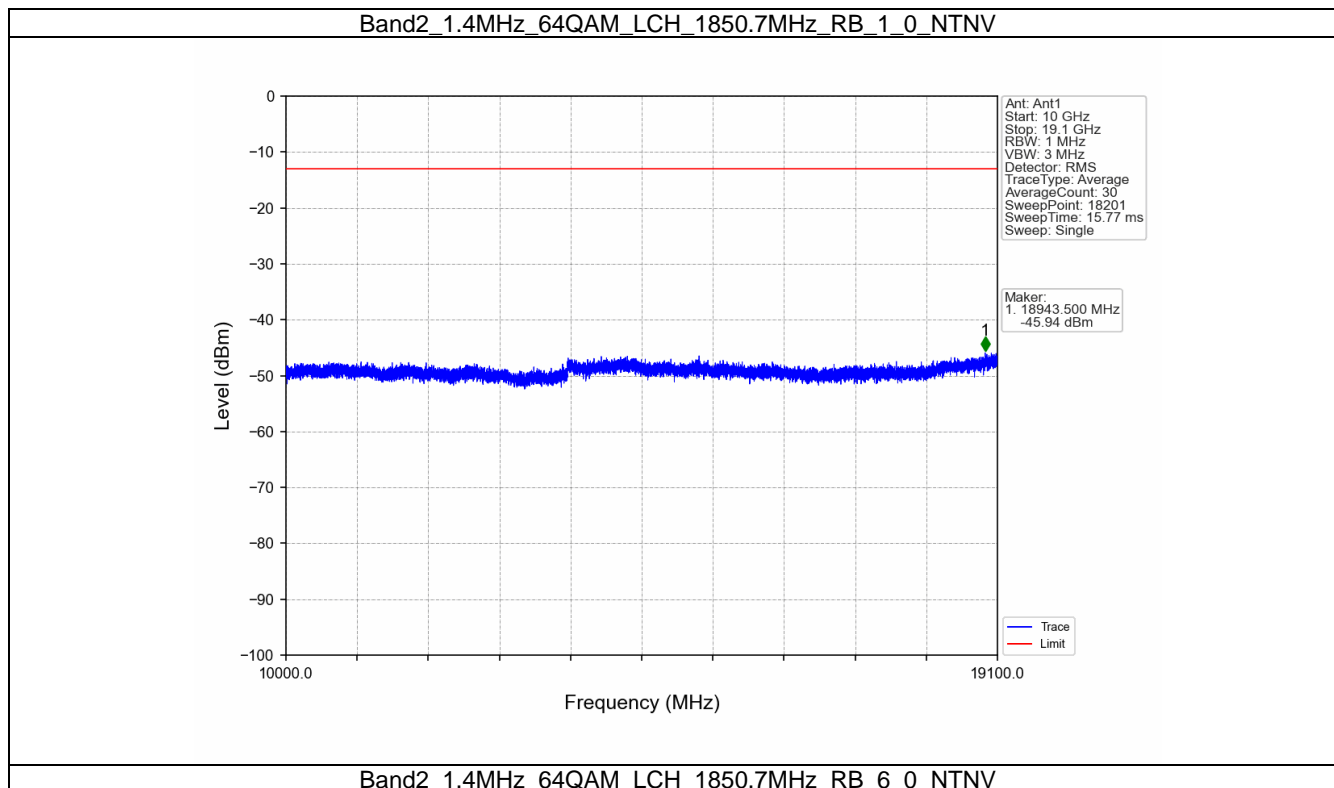
Band: 2 / Bandwidth: 1.4MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
64QAM	1850.7	1	0	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass
	1880	1	0	Refer To Test Graph	Pass
	1909.3	1	0	Refer To Test Graph	Pass
			5	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass



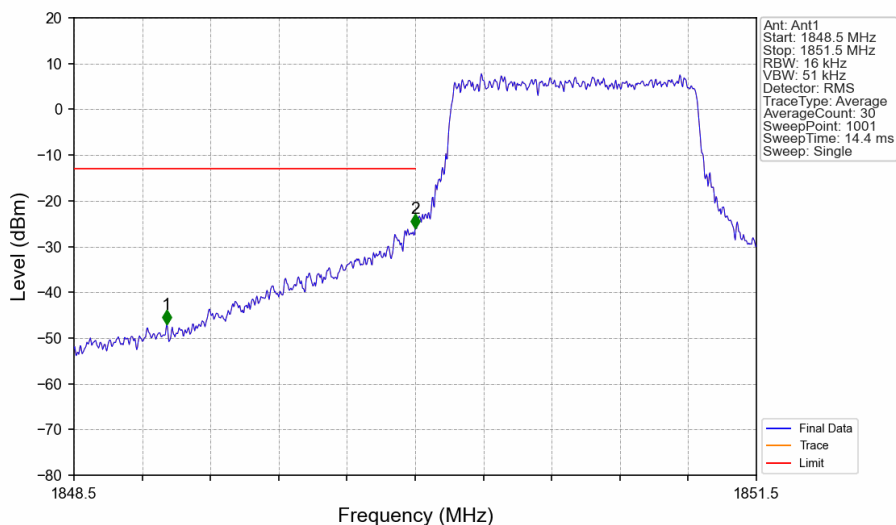
### 3.1.2 Test Graph







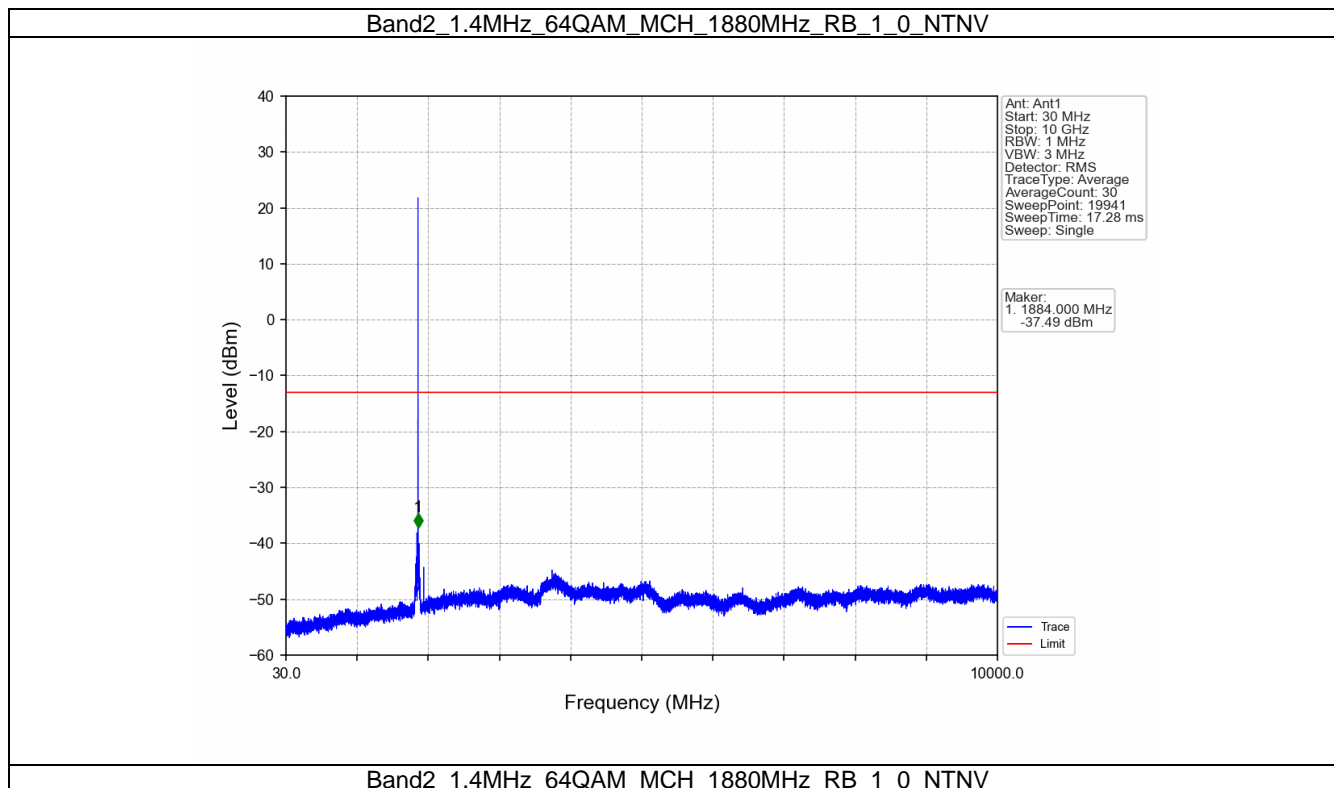


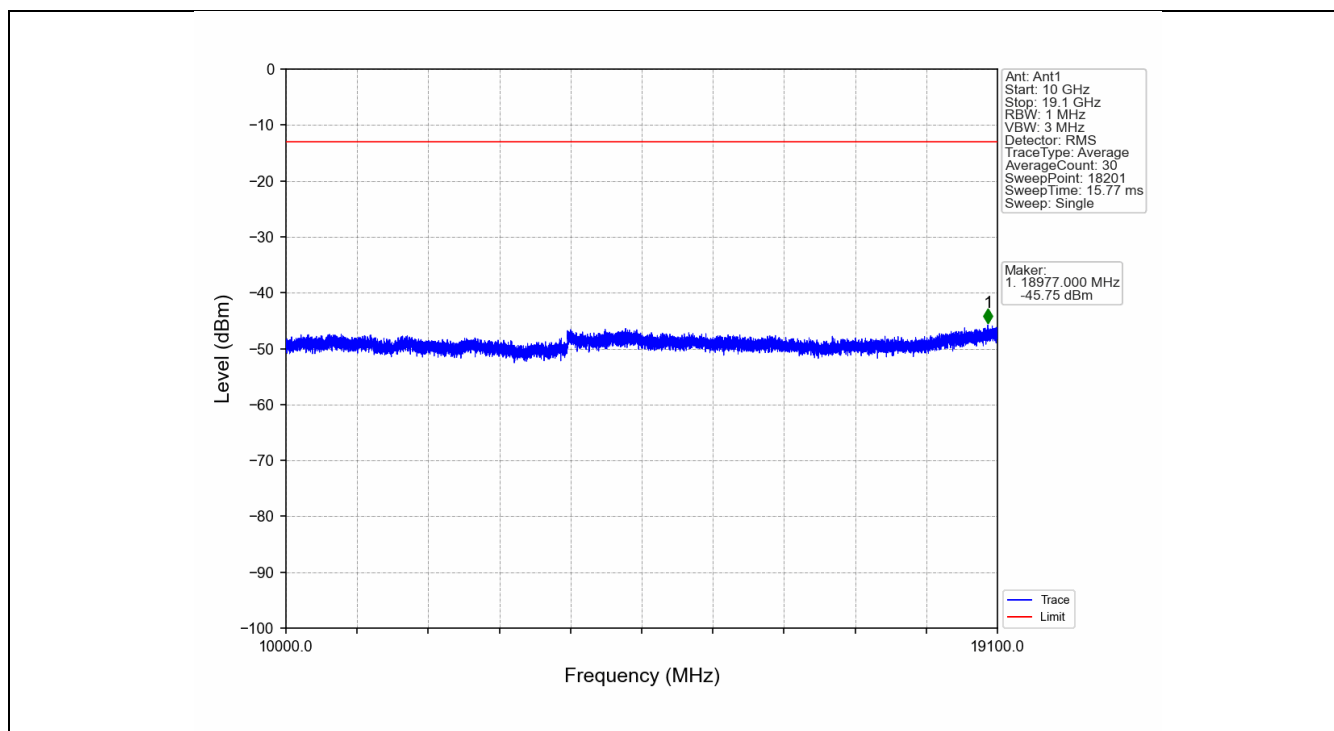


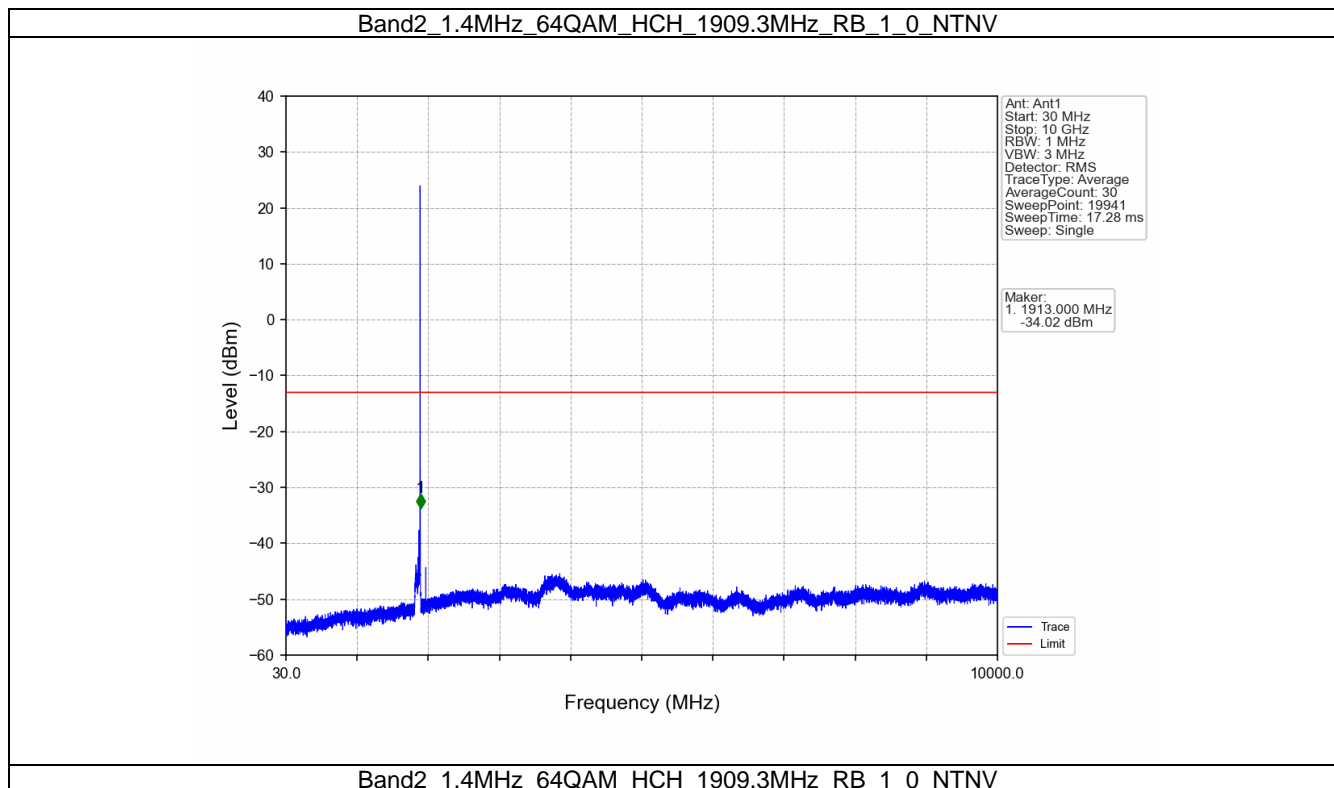
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1848.5	1849	1	/	1	1848.908	-47.00	-13	Pass
1849	1850	0.016	/	2	1850.000	-26.01	-13	Pass
1850	1851.5	0.016	/	/	/	/	/	/

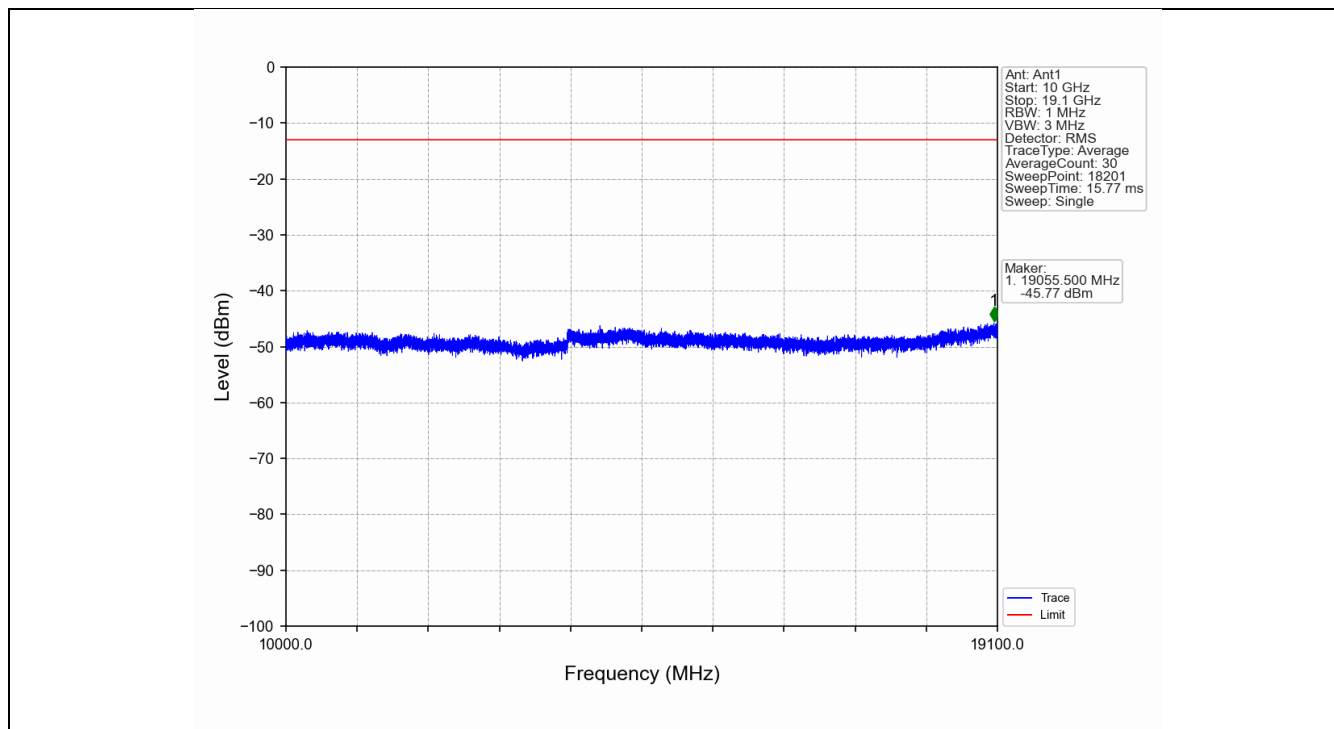


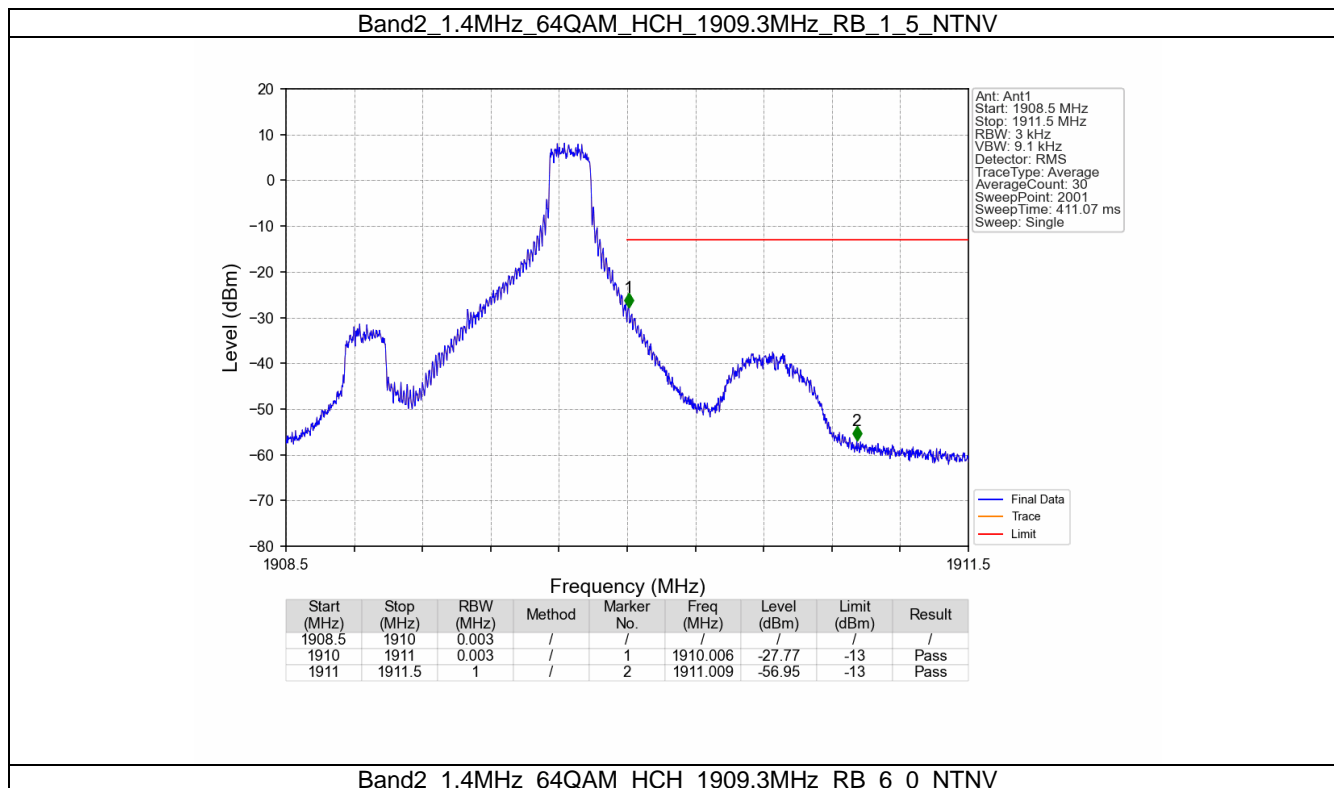






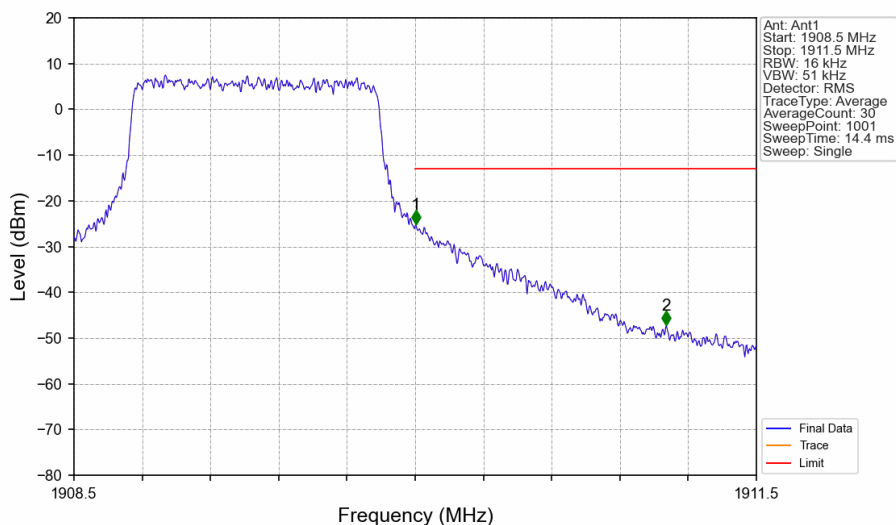






Band2\_1.4MHz\_64QAM\_HCH\_1909.3MHz\_RB\_6\_0\_NTNV





Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1908.5	1910	0.016	/	/	/	/	/	/
1910	1911	0.016	/	1	1910.003	-25.20	-13	Pass
1911	1911.5	1	/	2	1911.104	-47.23	-13	Pass





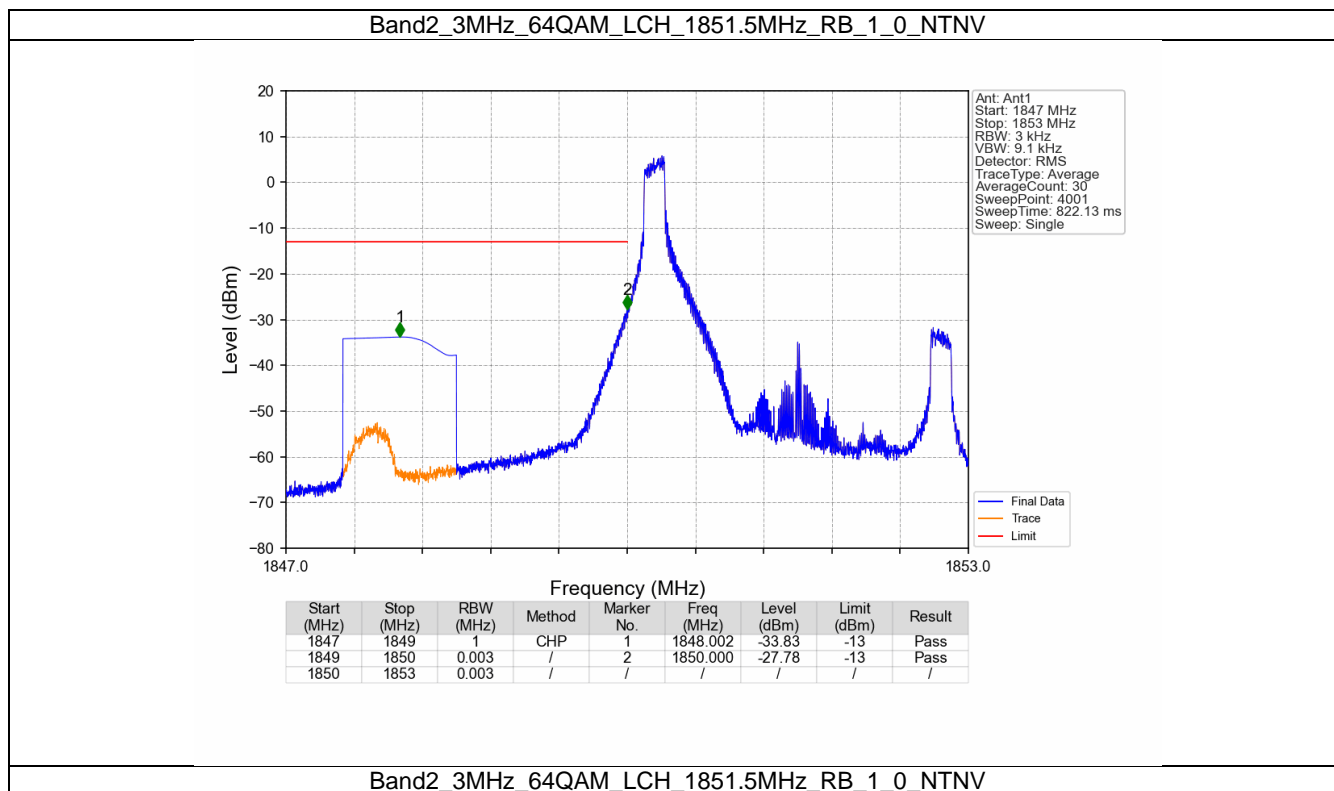
### 3.2 B2\_3MHz

#### 3.2.1 Test Result

Band: 2 / Bandwidth: 3MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
64QAM	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

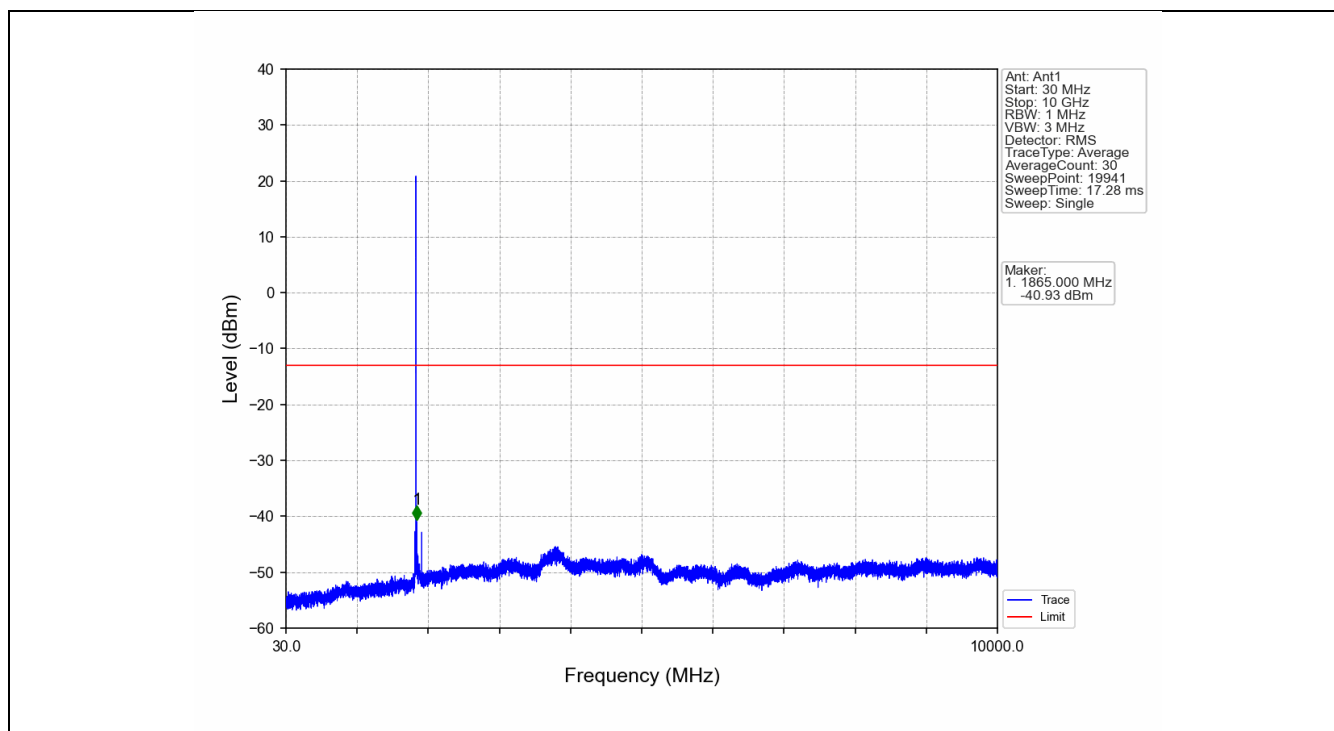


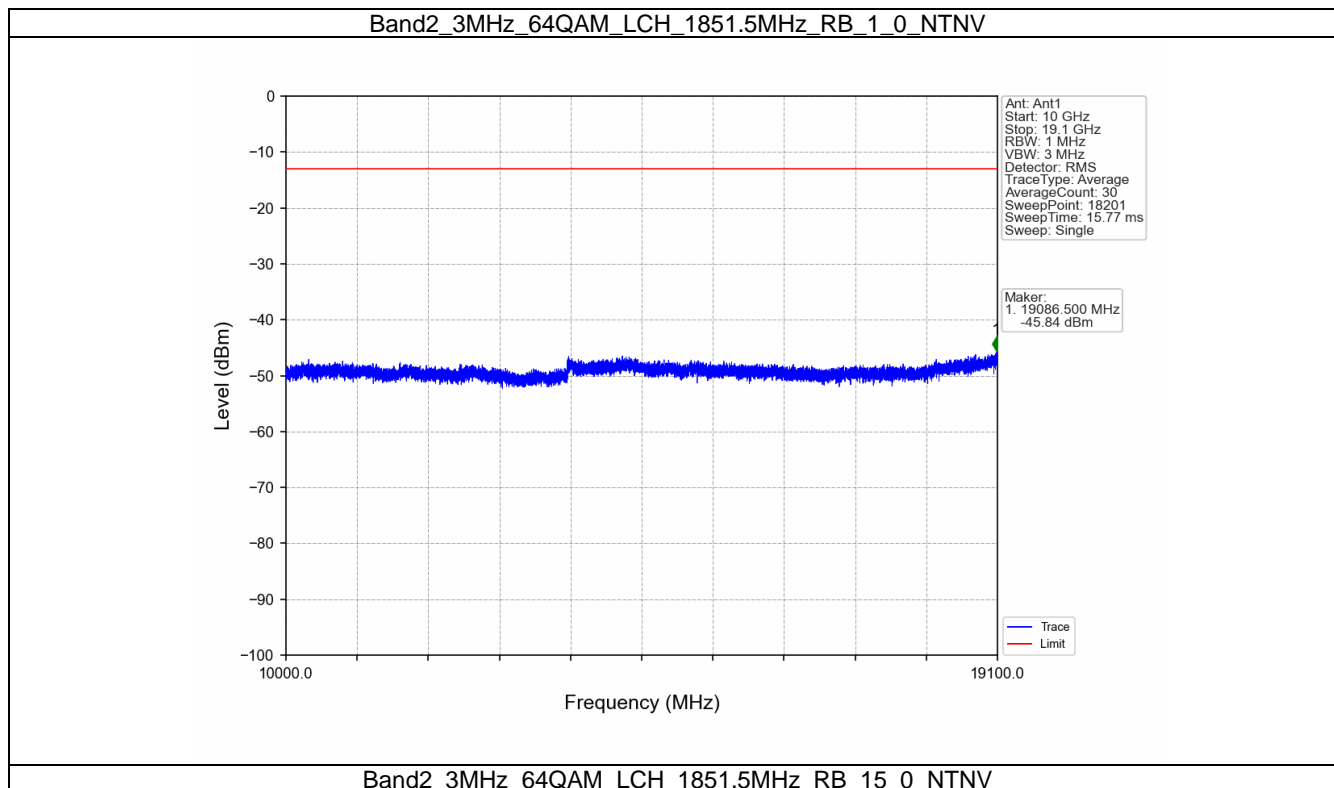
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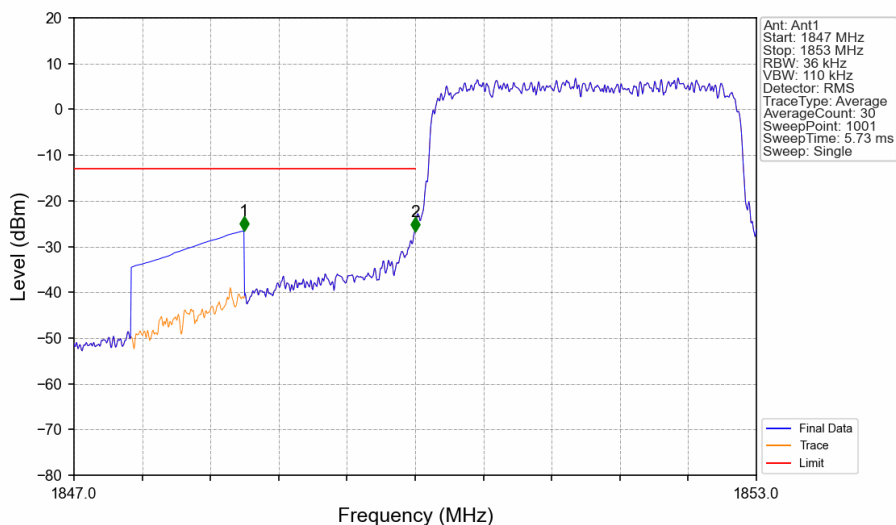
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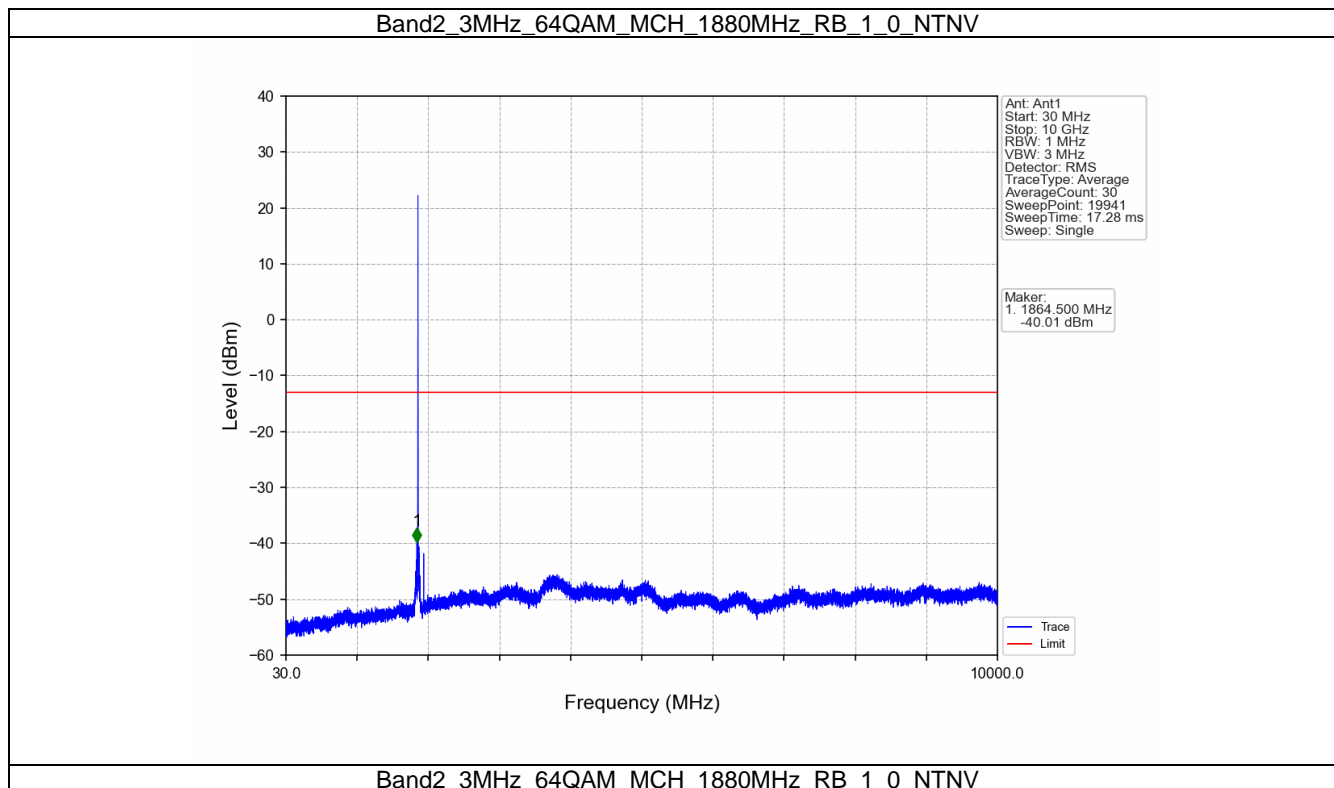




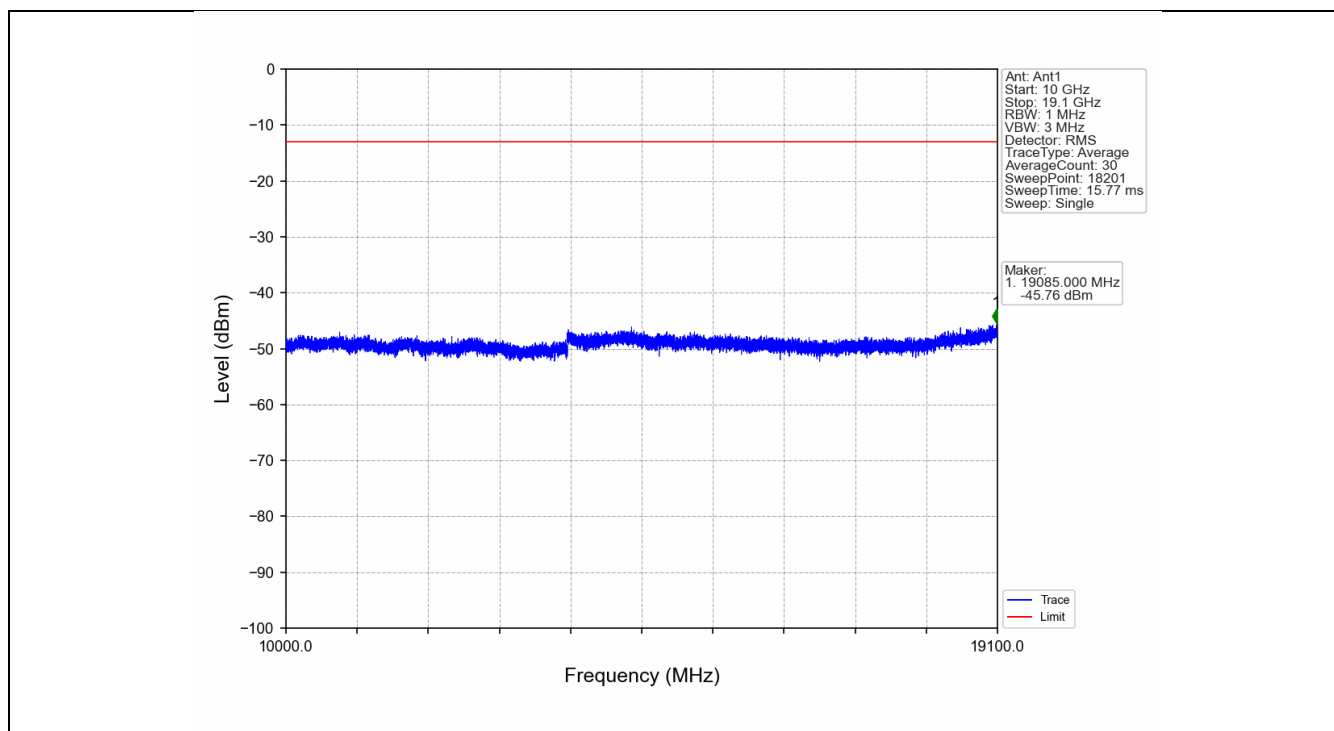


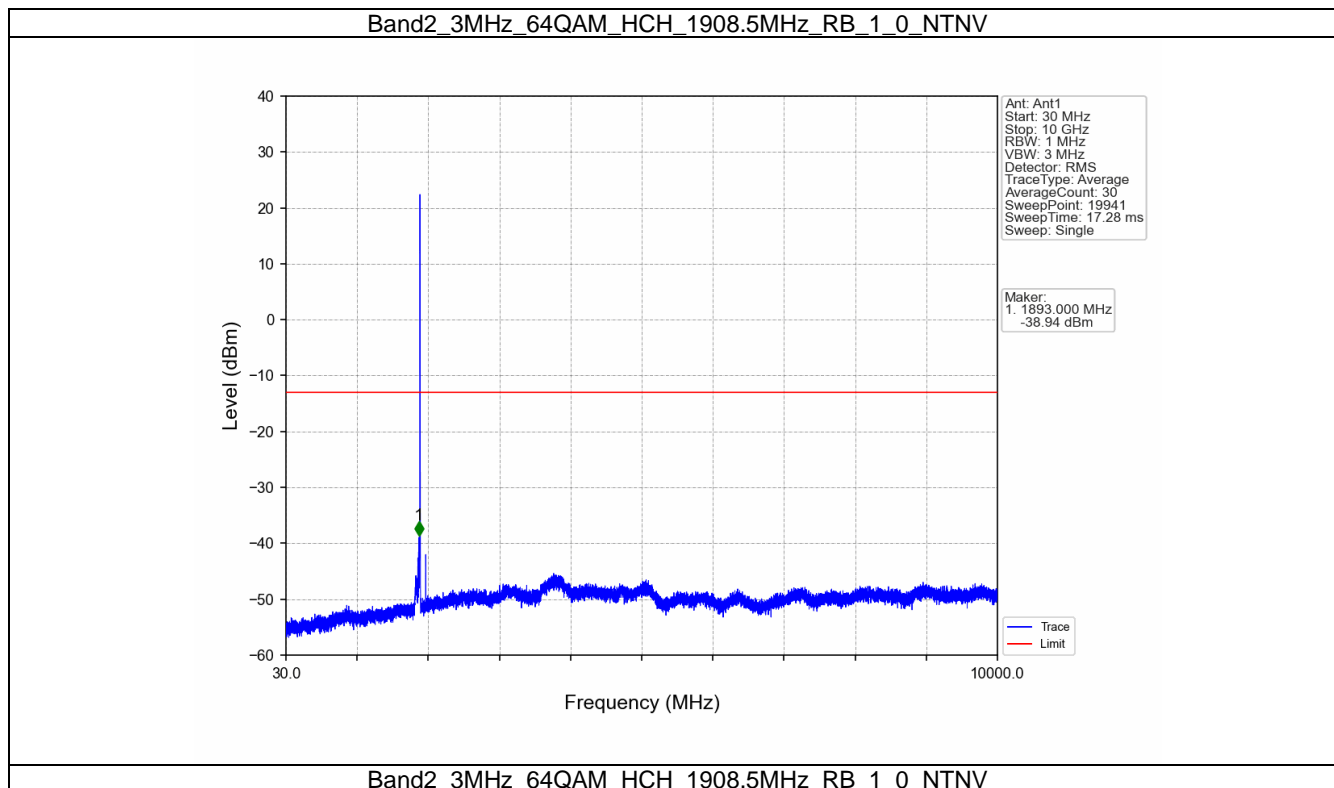
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1847	1849	1	CHP	1	1848.494	-26.56	-13	Pass
1849	1850	0.036	/	2	1850.000	-26.70	-13	Pass
1850	1853	0.036	/	/	/	/	/	/

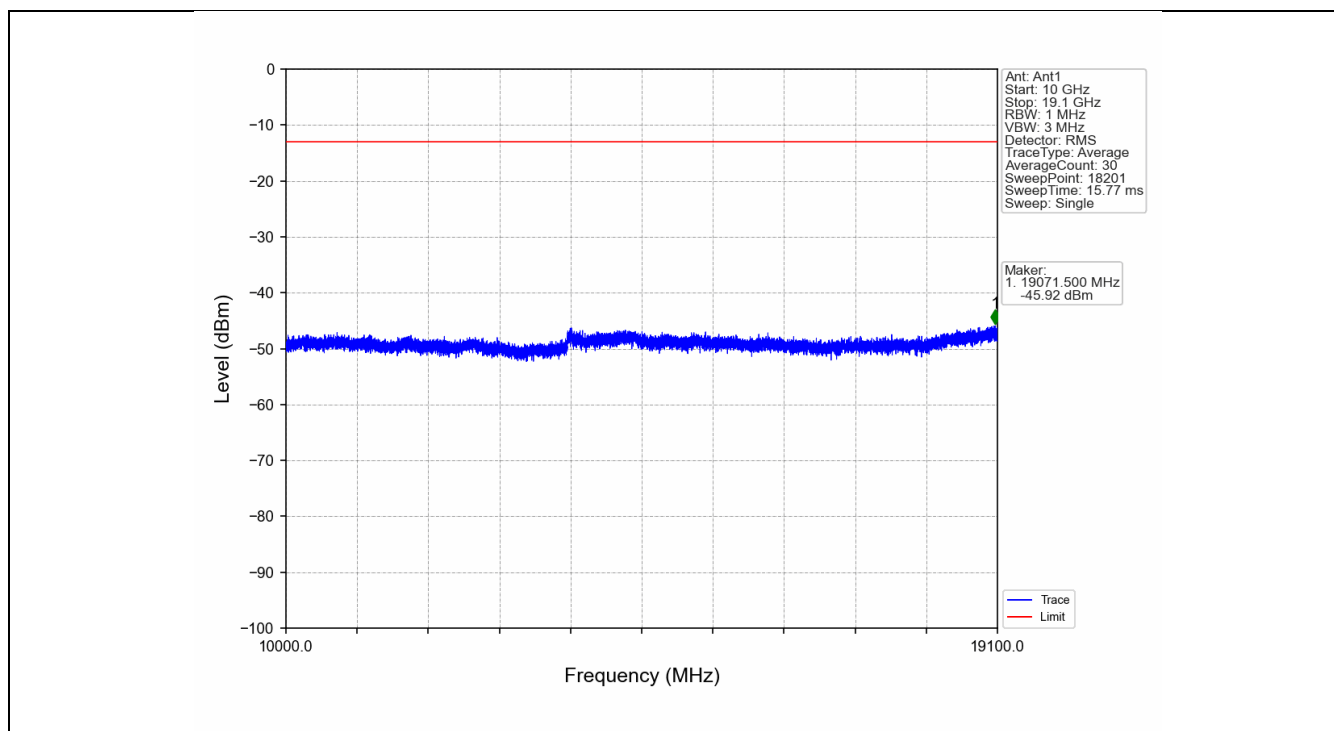


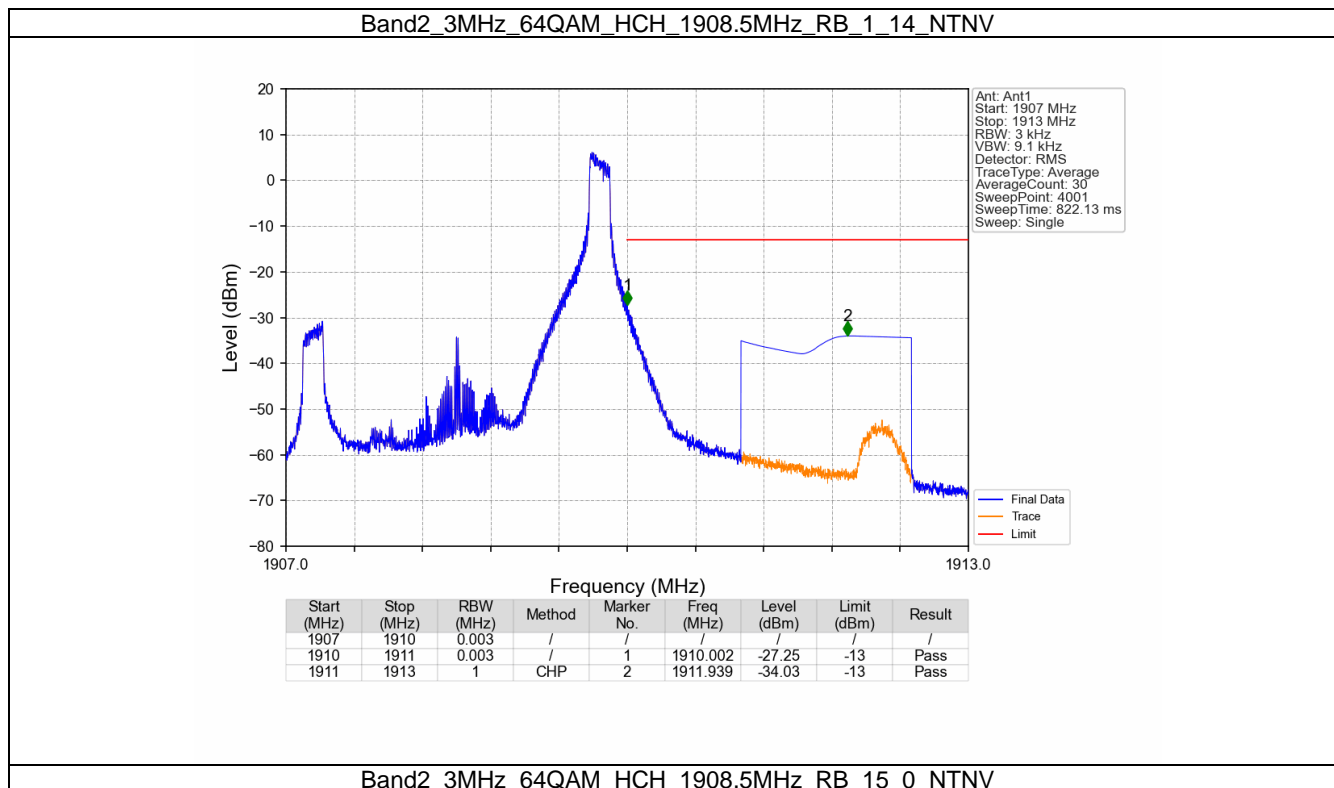






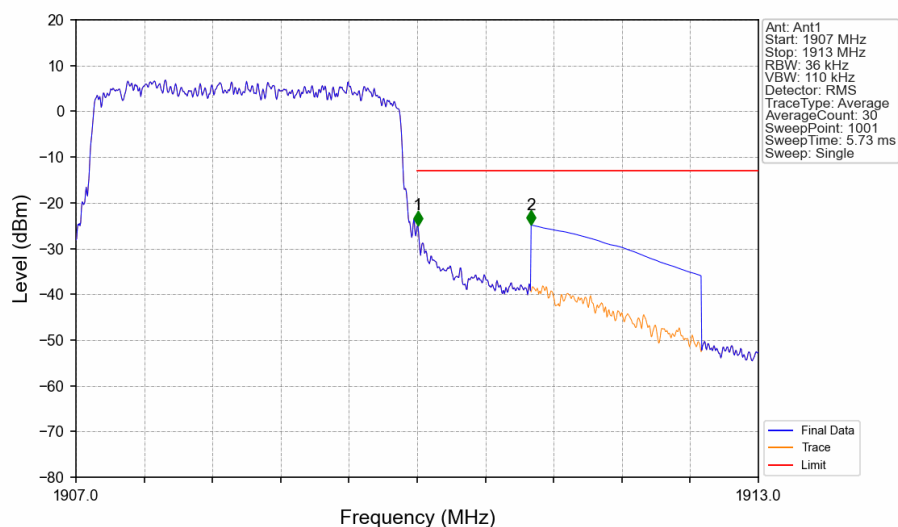






Band2\_3MHz\_64QAM\_HCH\_1908.5MHz\_RB\_15\_0\_NTNV





Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1907	1910	0.036	/	1	1910.006	-24.90	-13	Pass
1910	1911	0.036	/	2	1911.002	-24.86	-13	Pass
1911	1913	1	CHP					



### 3.3 B2\_5MHz

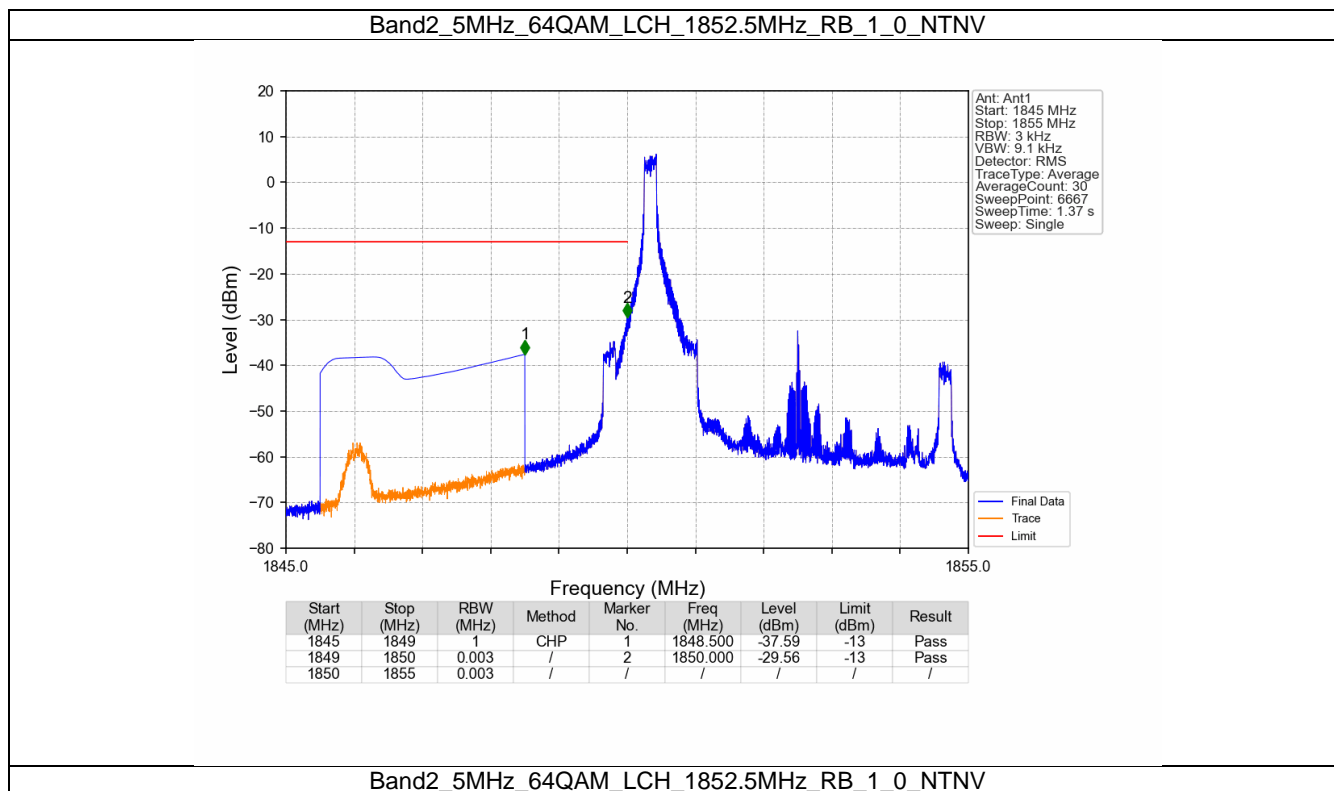
#### 3.3.1 Test Result

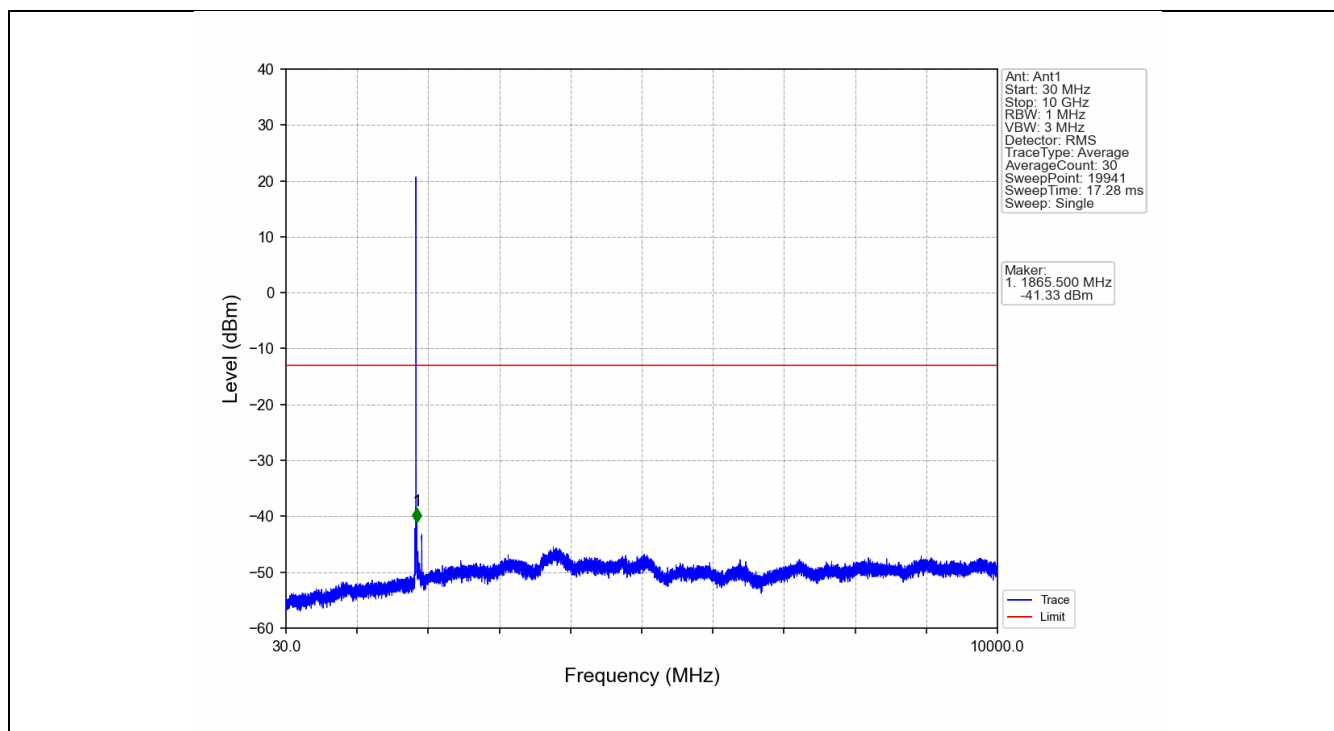
Band: 2 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
64QAM	1852.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	1880	1	0	Refer To Test Graph		Pass
	1907.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

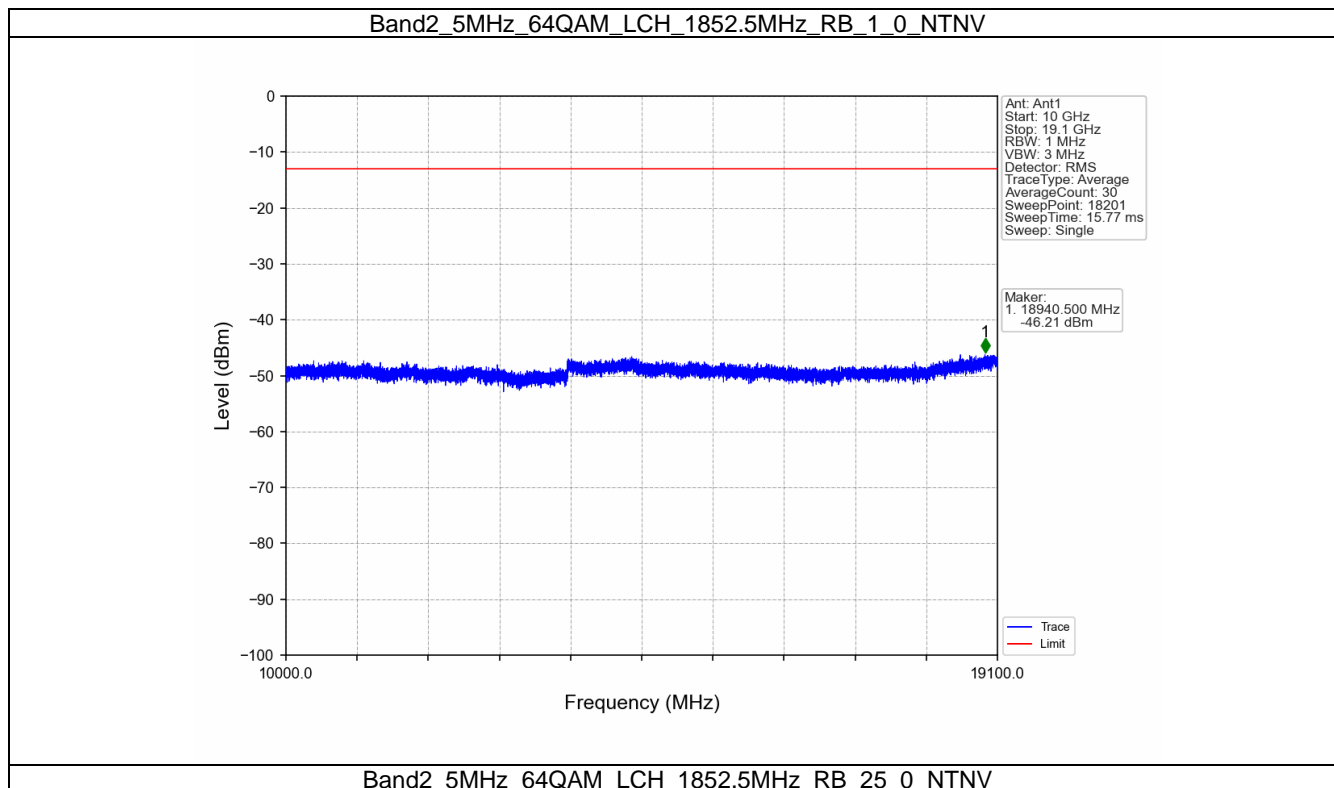


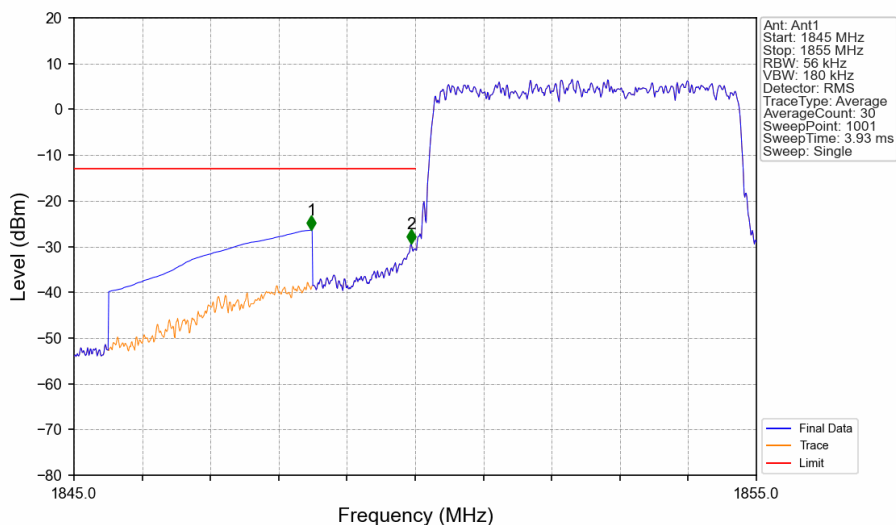


### 3.3.2 Test Graph



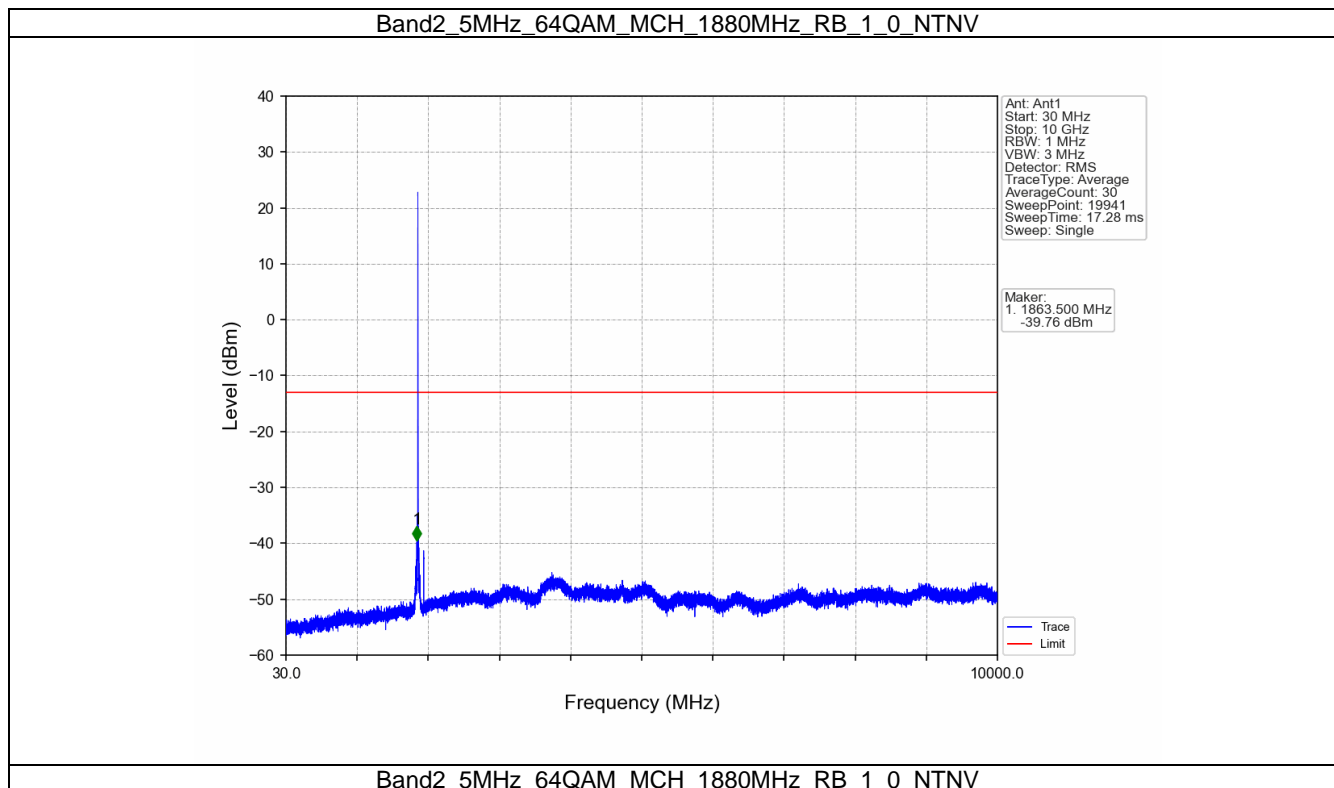


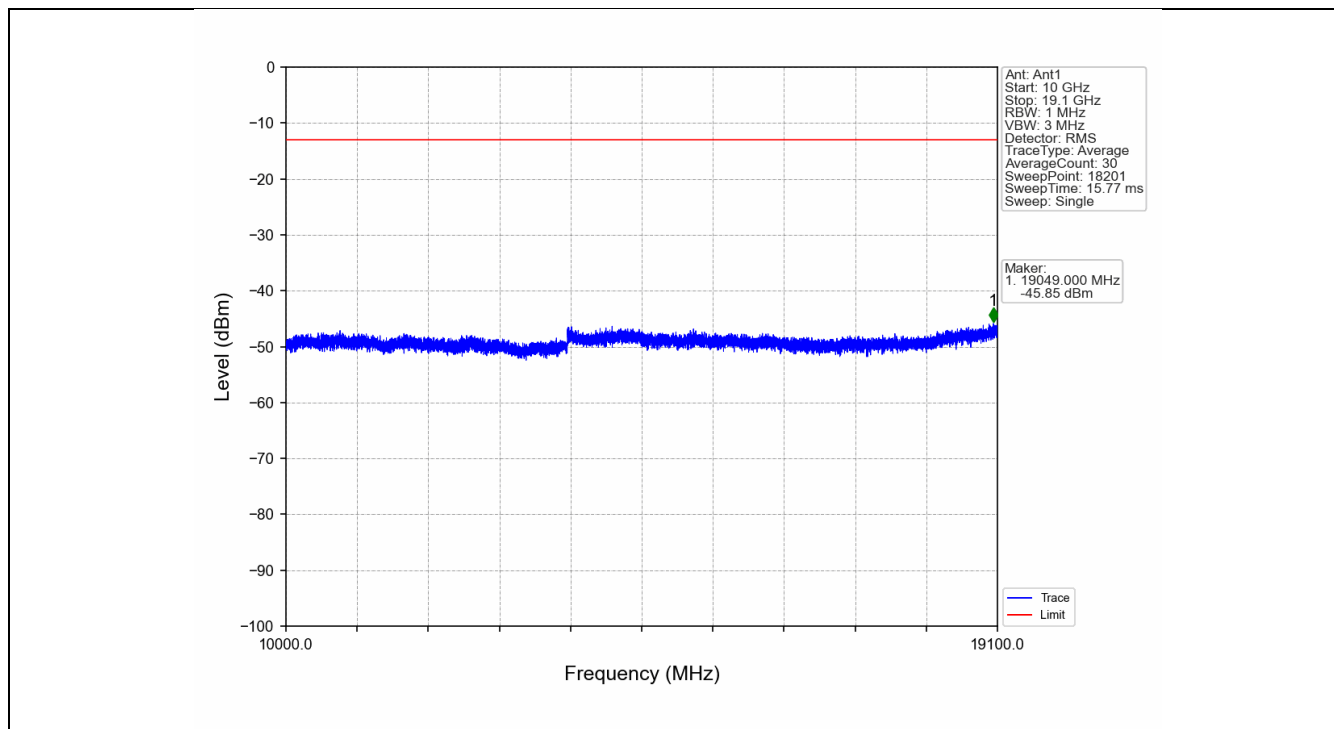




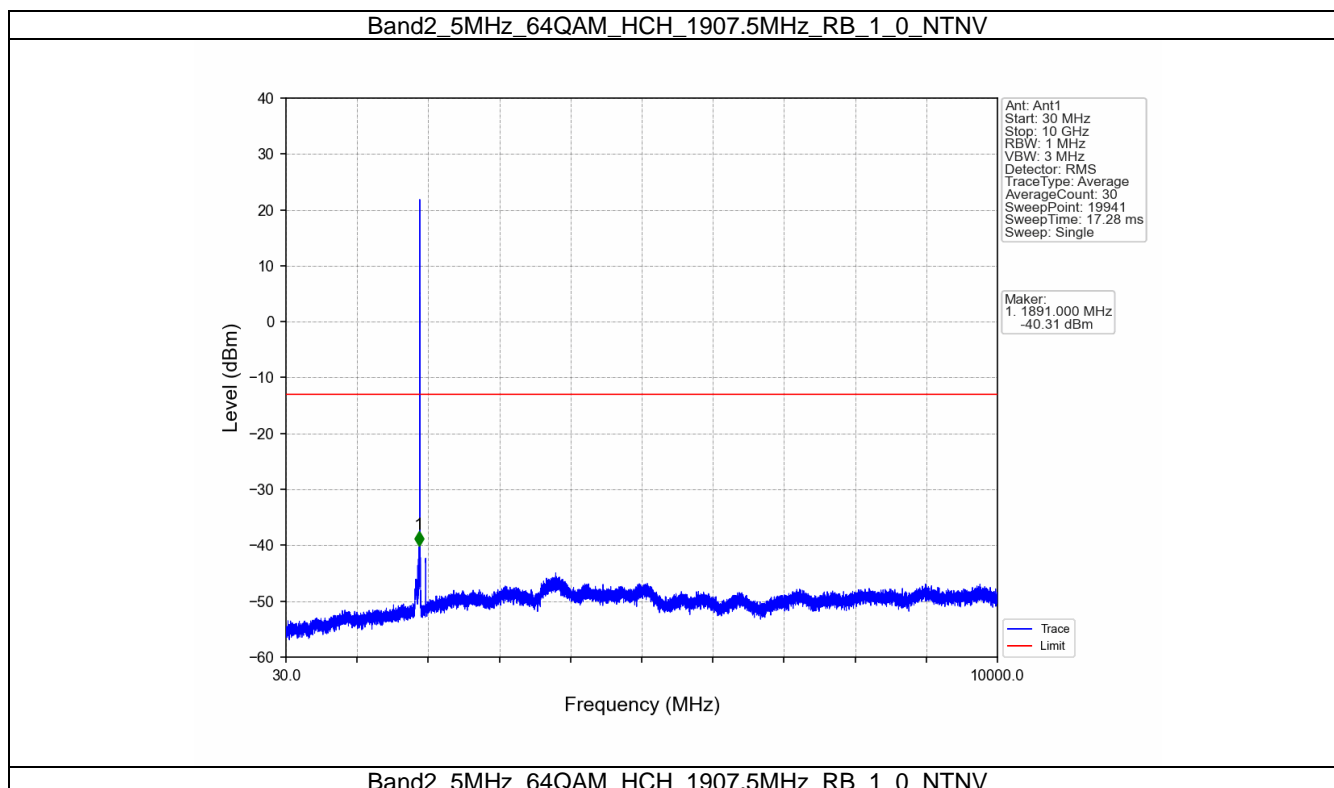
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1845	1849	1	CHP	1	1848.480	-26.41	-13	Pass
1849	1850	0.056	/	2	1849.940	-29.41	-13	Pass
1850	1855	0.056	/	/	/	/	/	/









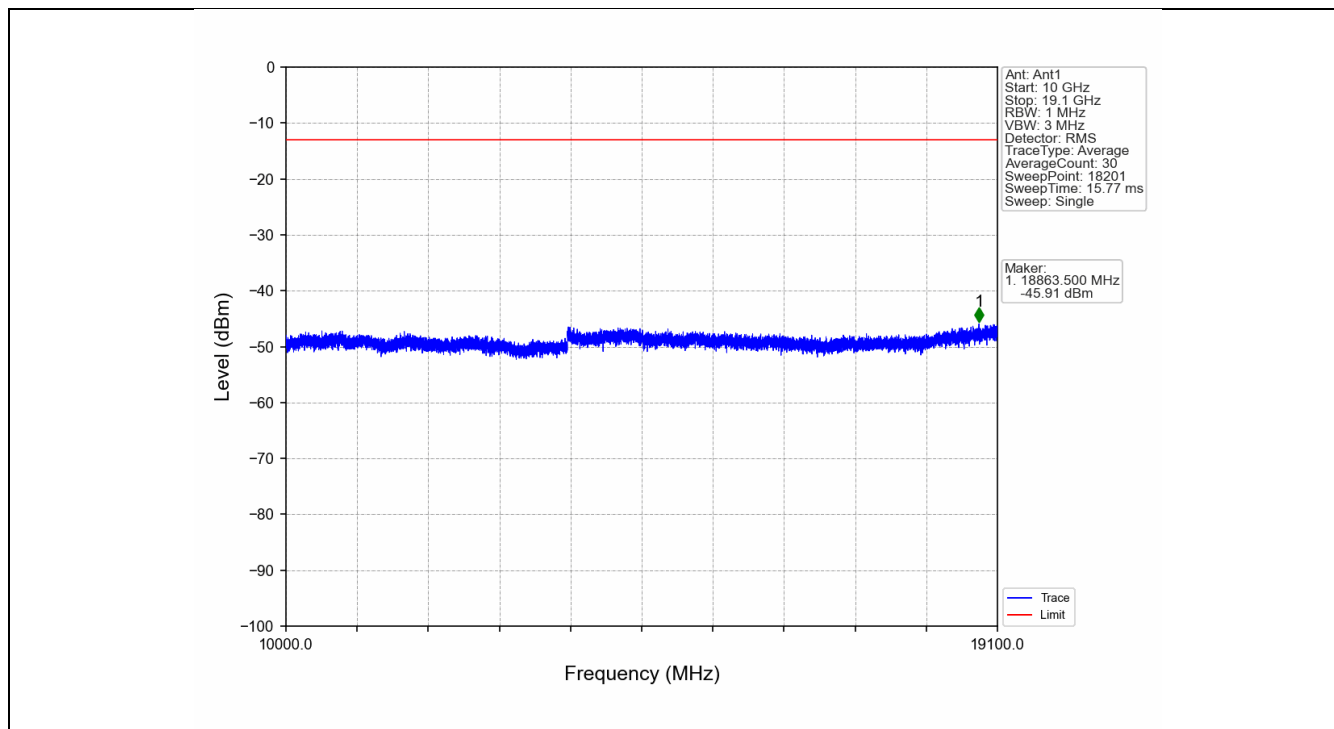


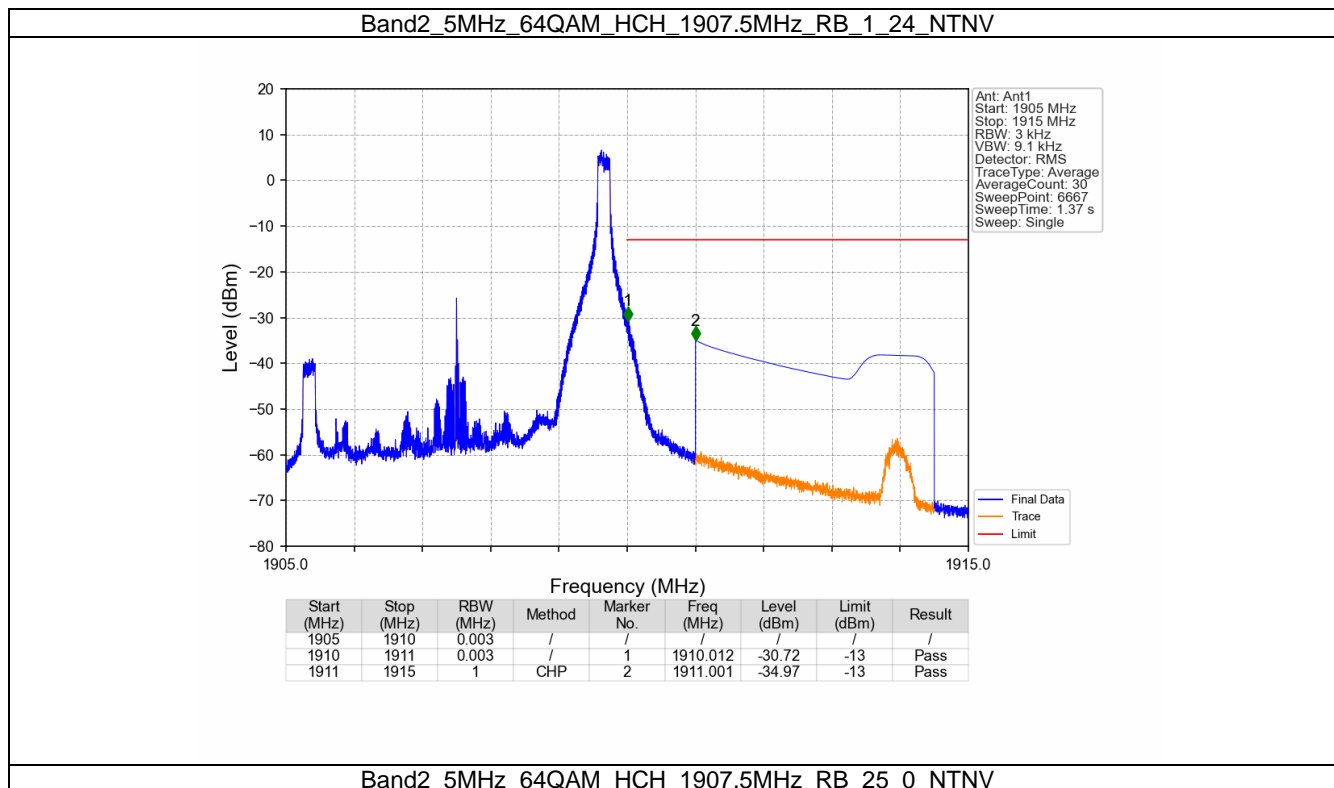
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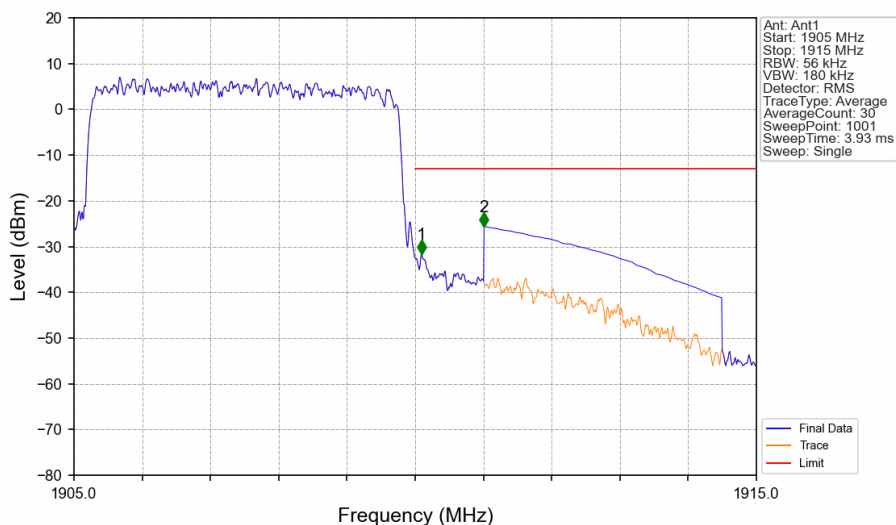
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1905	1910	0.056	/	1	1910.090	-31.62	-13	Pass
1910	1911	0.056	/	2	1911.010	-25.68	-13	Pass
1911	1915	1	CHP					



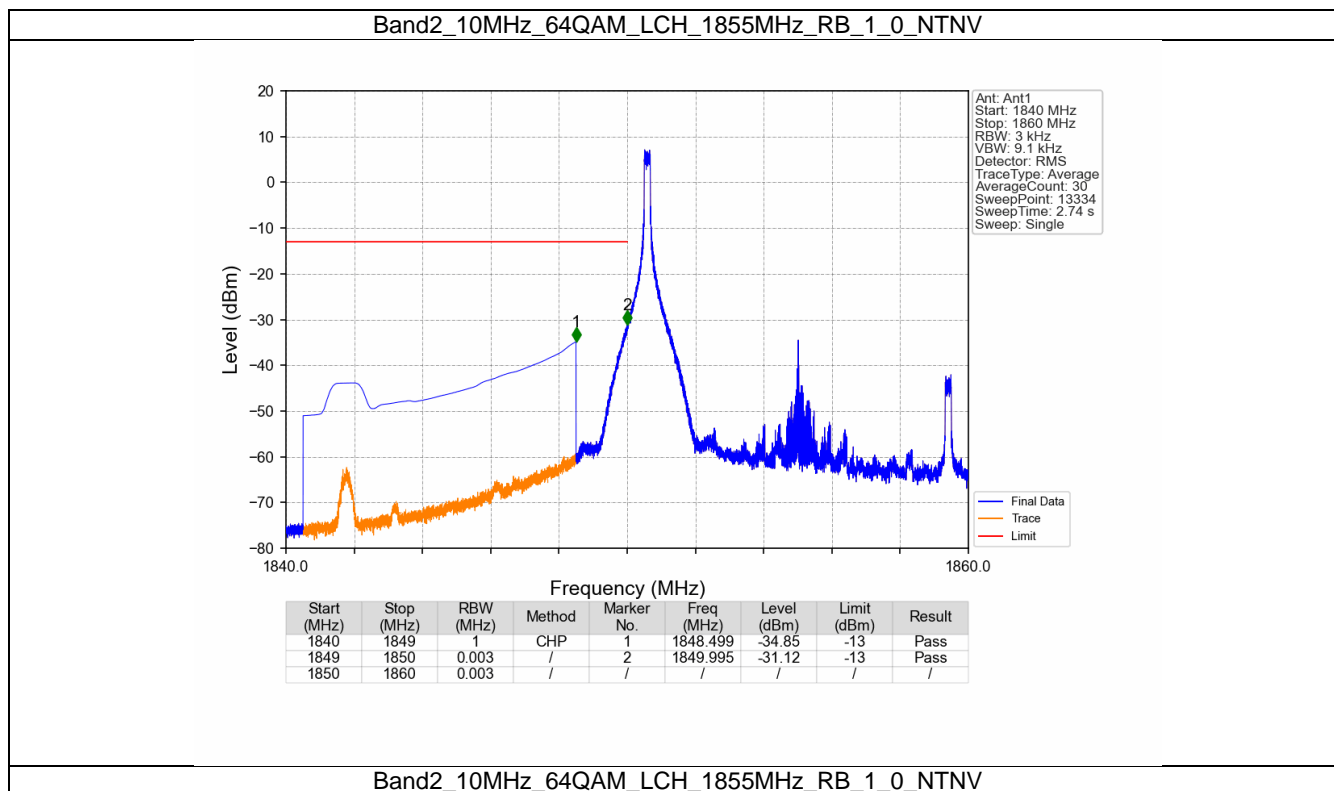
### 3.4 B2\_10MHz

#### 3.4.1 Test Result

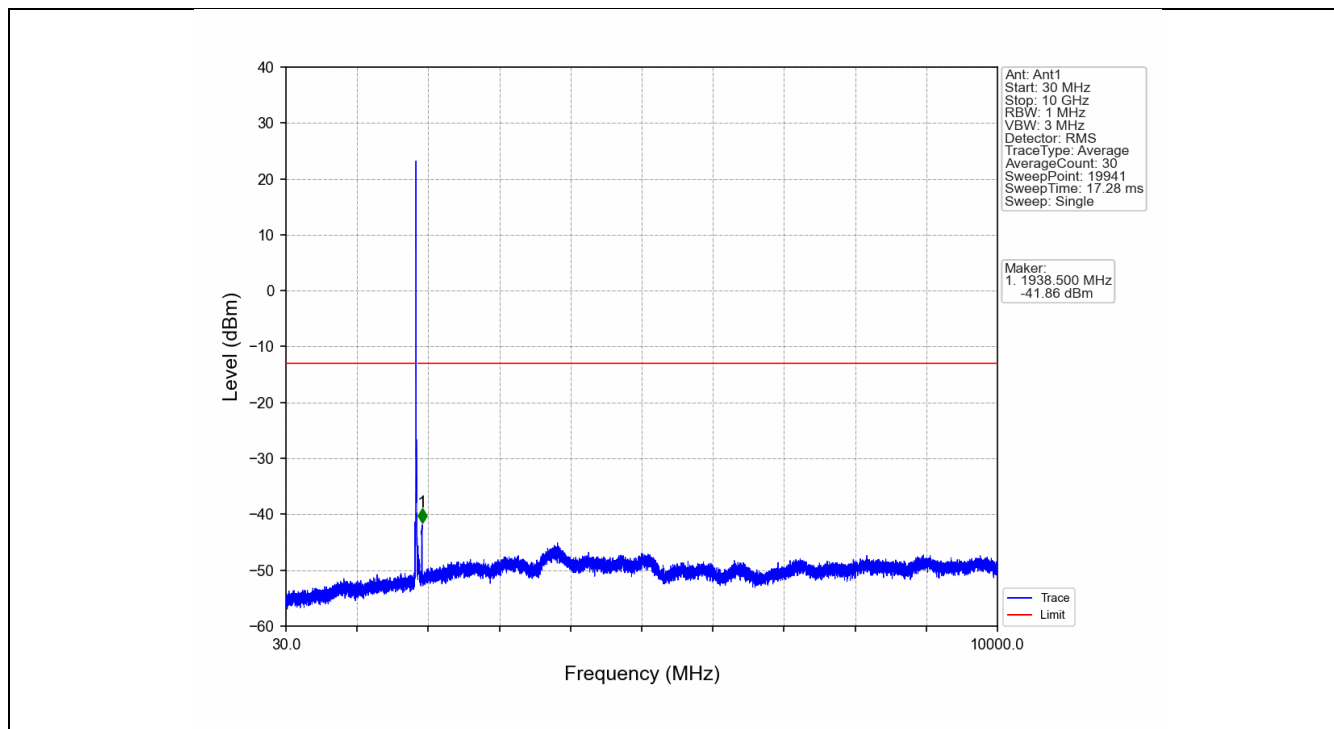
Band: 2 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
64QAM	1855	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	1880	1	0	Refer To Test Graph		Pass
	1905	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

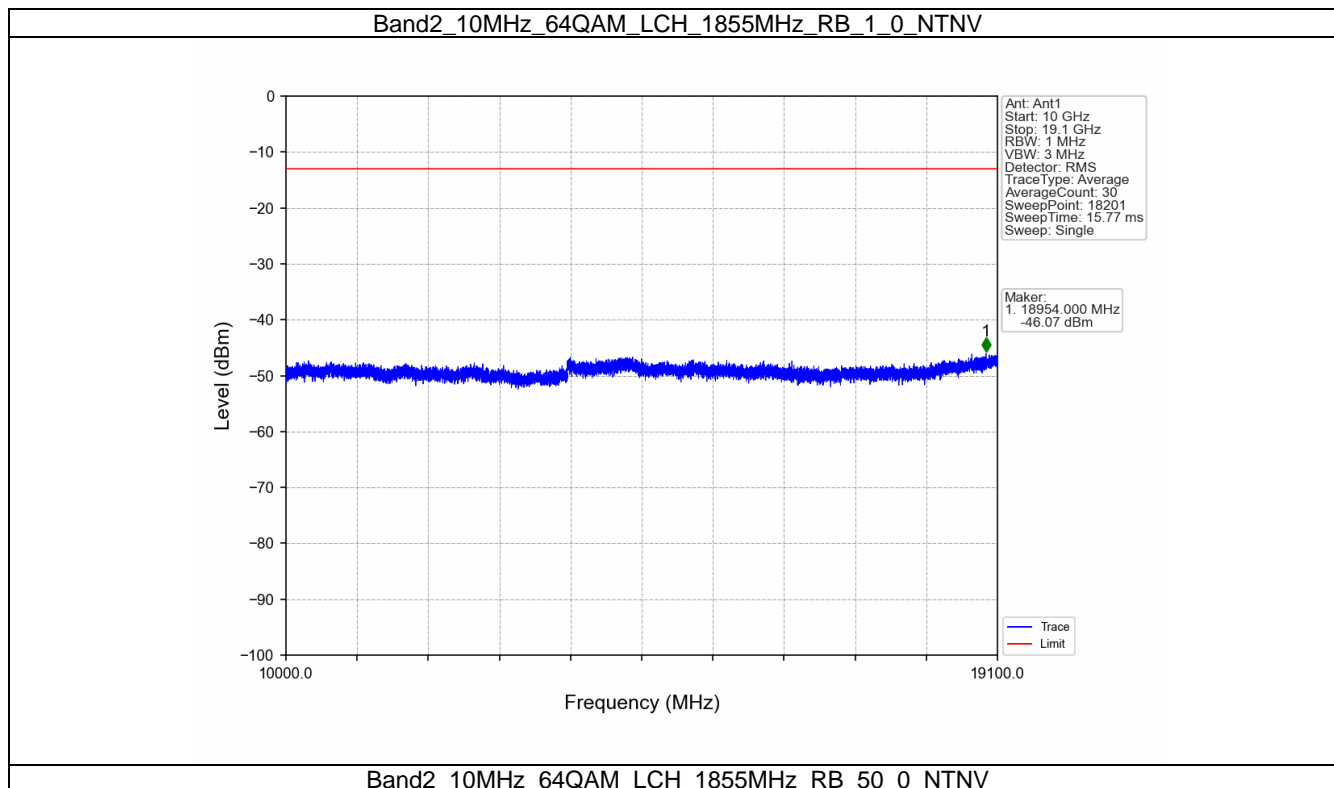


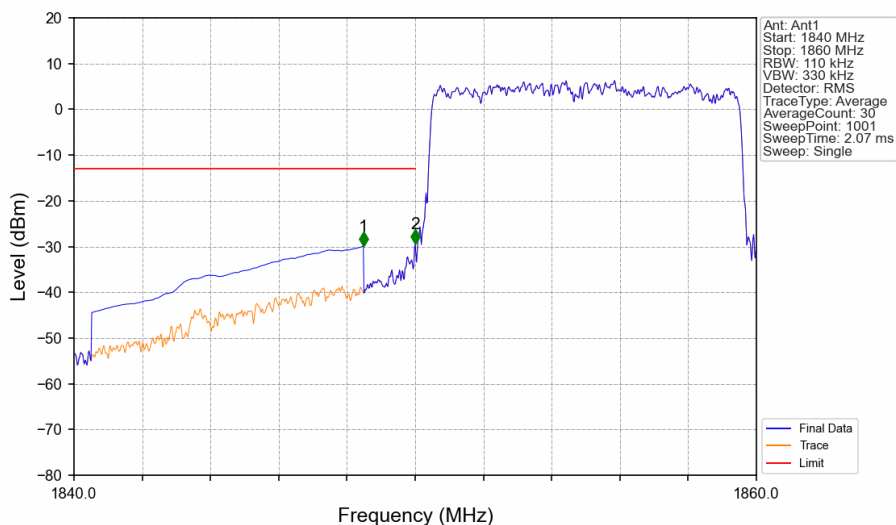
### 3.4.2 Test Graph





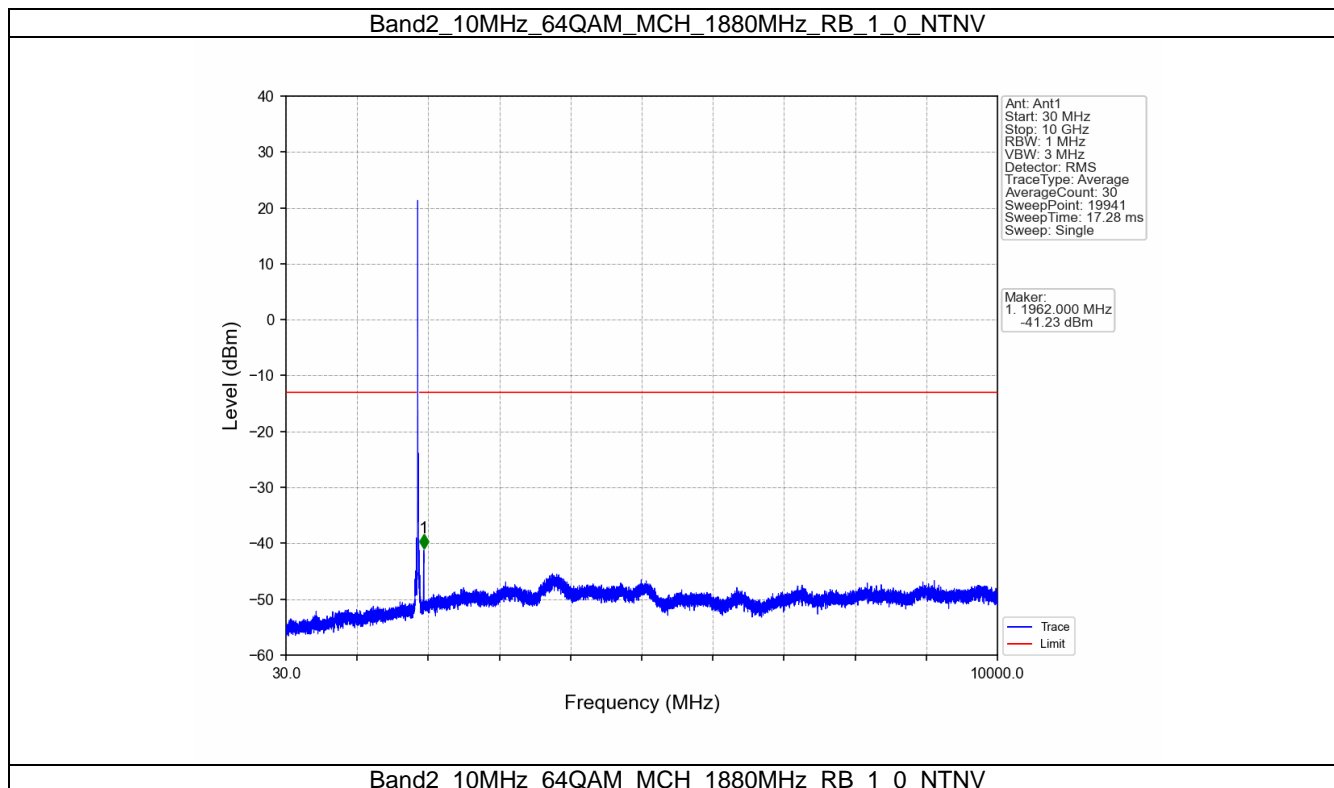


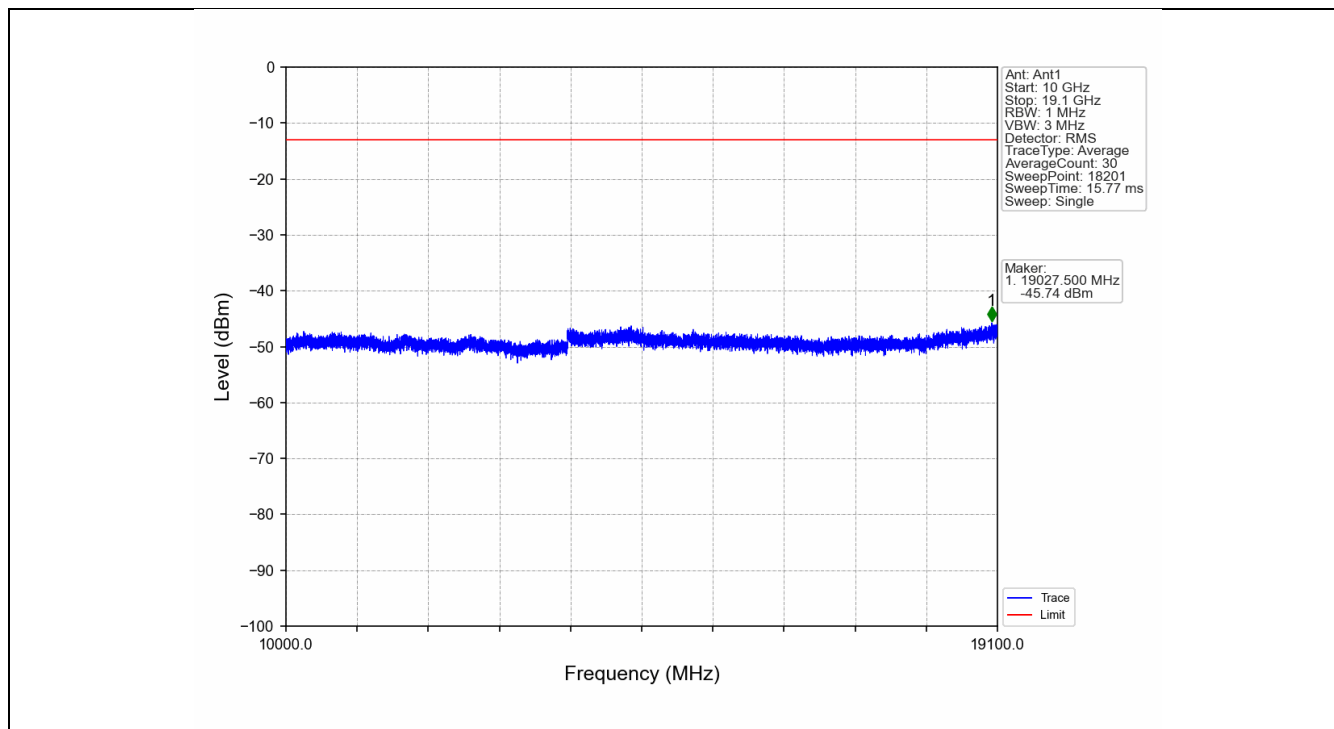


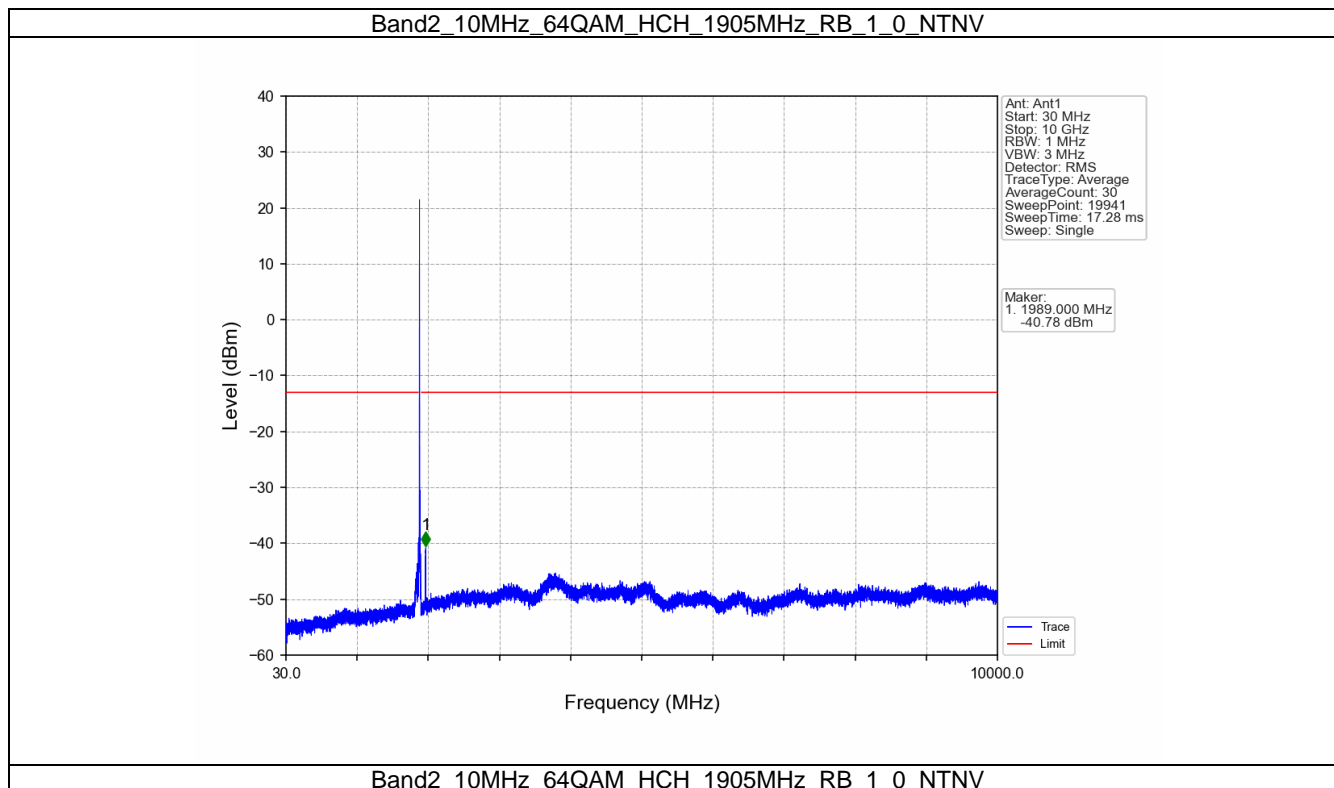


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1840	1849	1	CHP	1	1848.480	-29.91	-13	Pass
1849	1850	0.11	/	2	1850.000	-29.40	-13	Pass
1850	1860	0.11	/	/	/	/	/	/

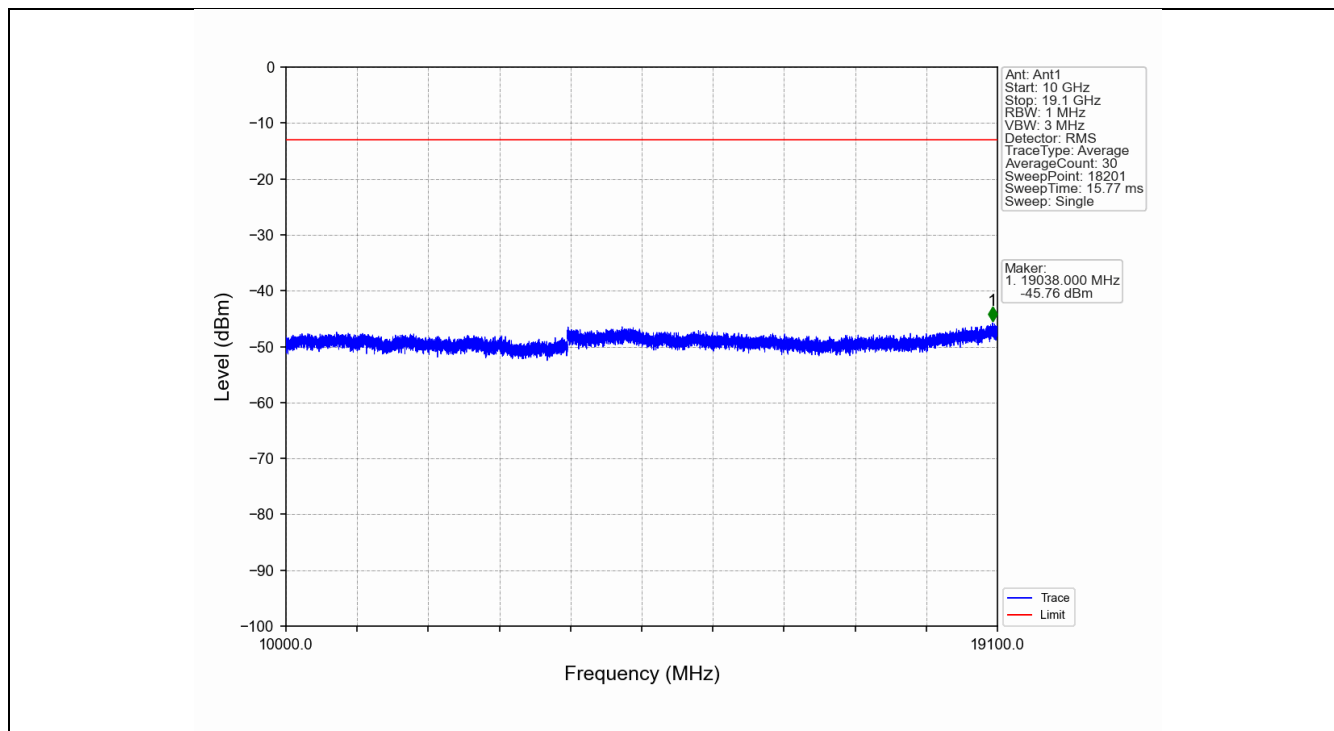


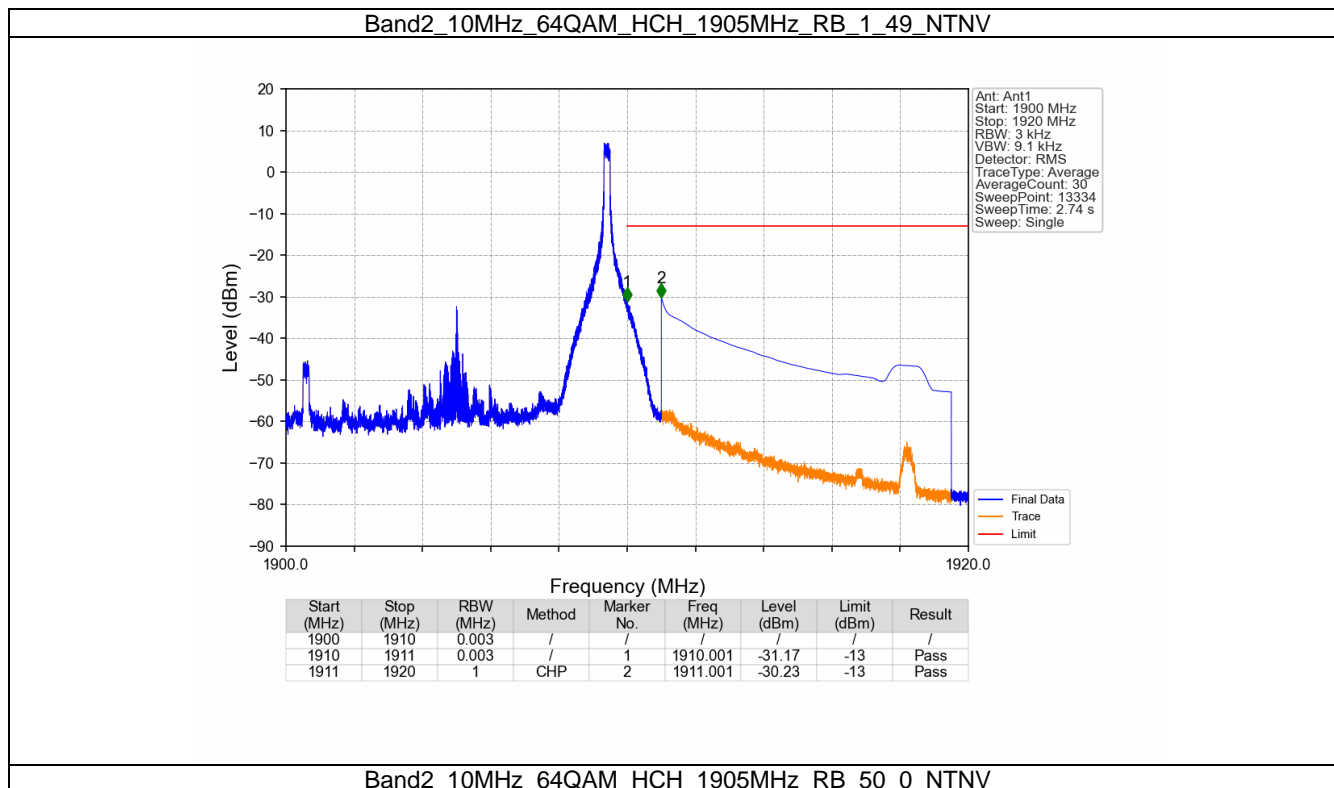


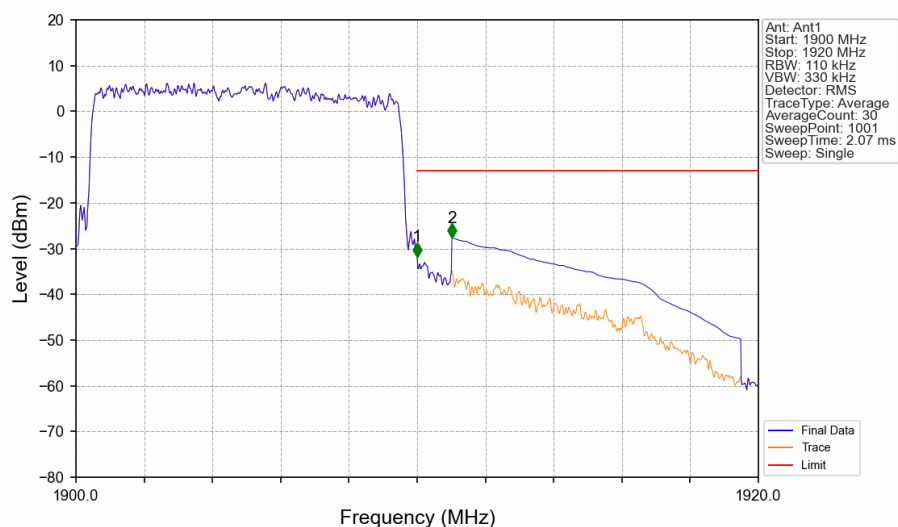












Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1900	1910	0.11	/	1	1910.000	-31.78	-13	Pass
1910	1911	0.11	/	2	1911.020	-27.63	-13	Pass
1911	1920	1	CHP					



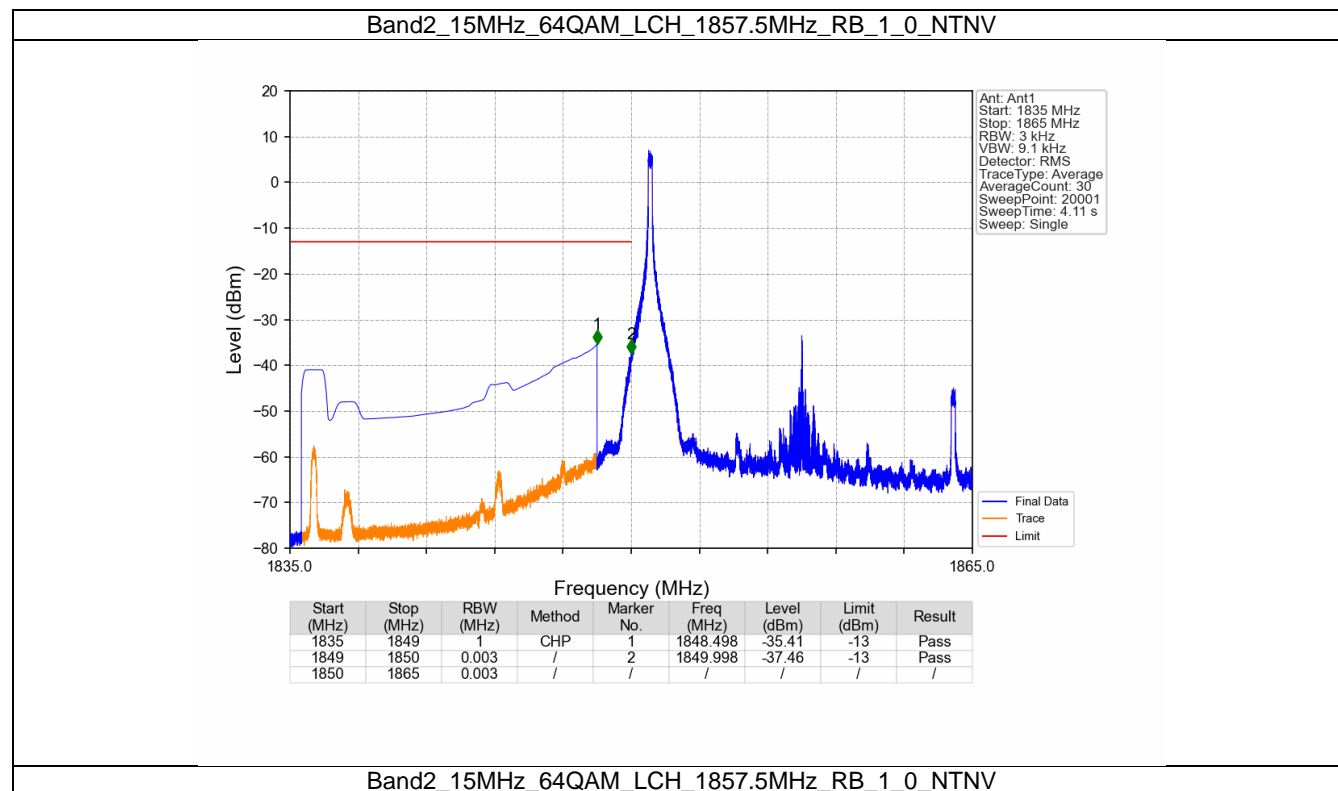
### 3.5 B2\_15MHz

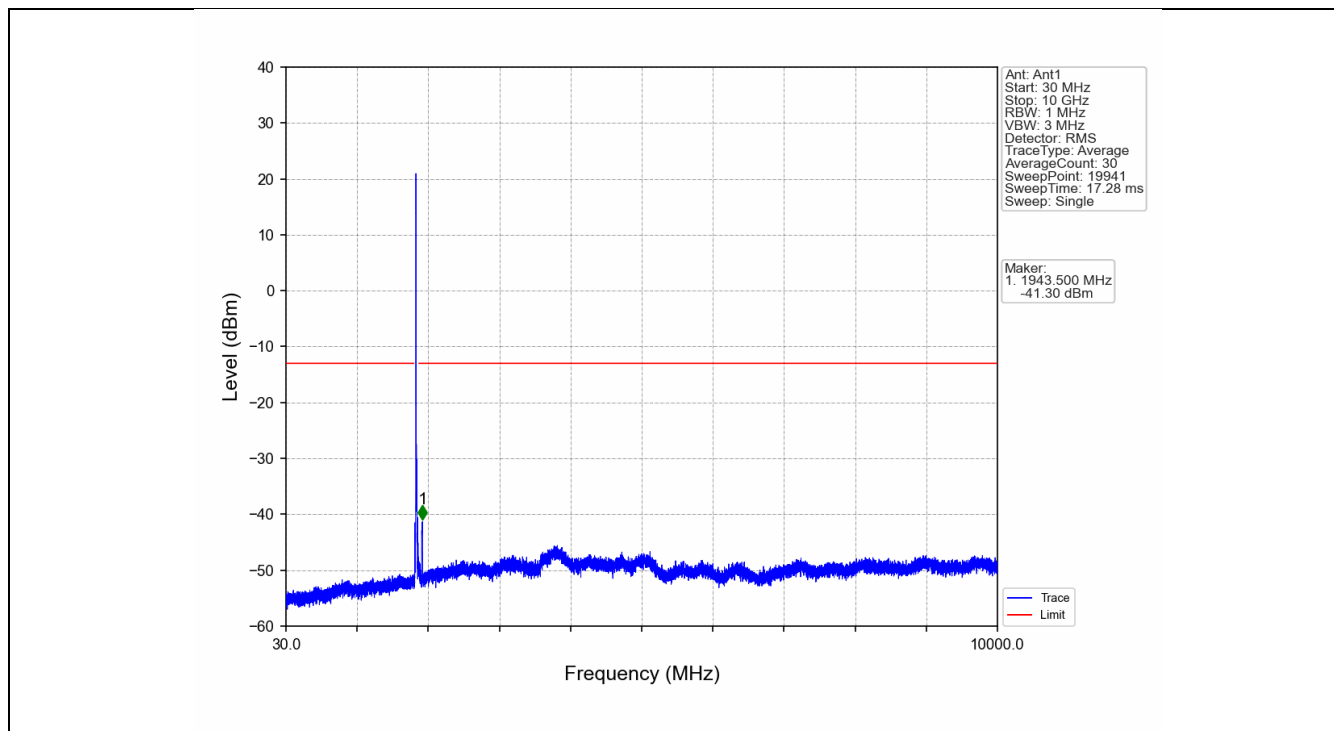
#### 3.5.1 Test Result

Band: 2 / Bandwidth: 15MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
64QAM	1857.5	1	0	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass
	1880	1	0	Refer To Test Graph		Pass
	1902.5	1	0	Refer To Test Graph		Pass
			74	Refer To Test Graph		Pass
		75	0	Refer To Test Graph		Pass

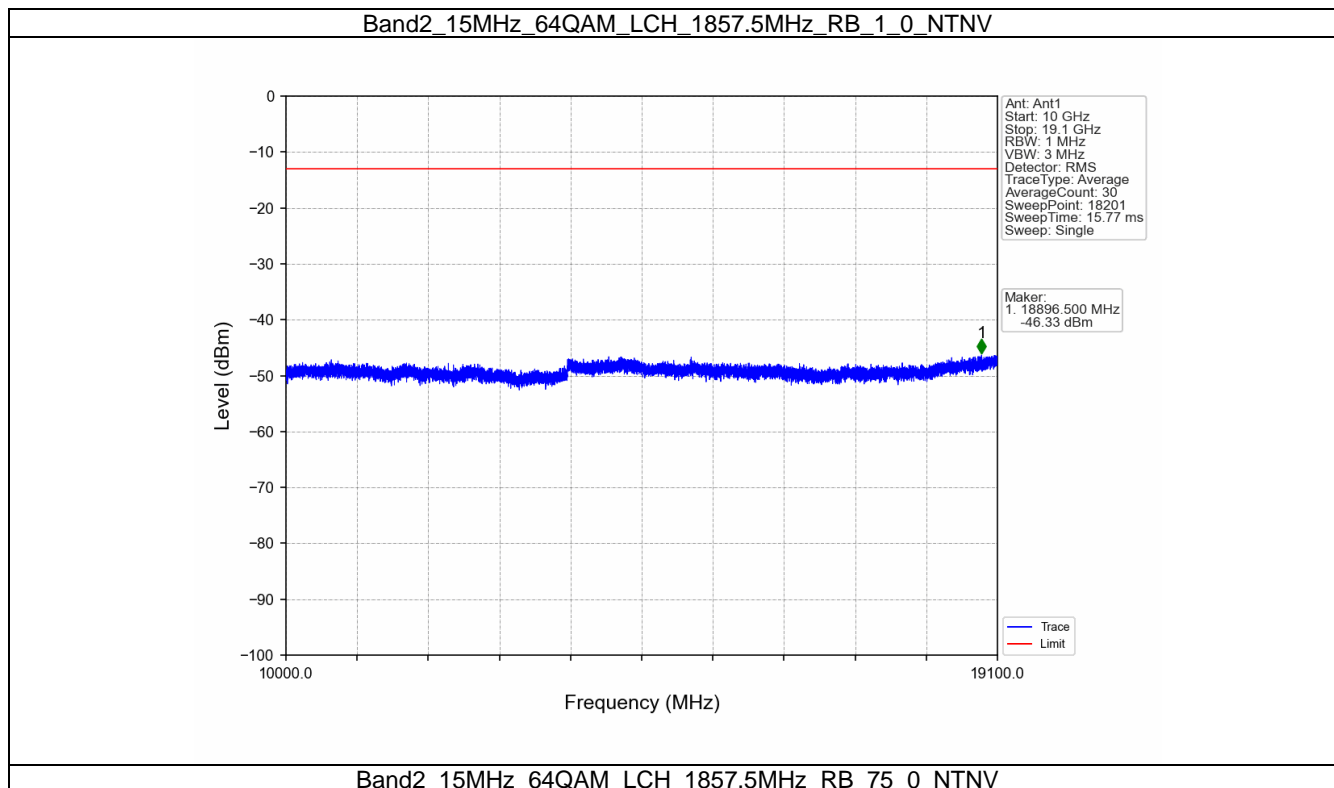


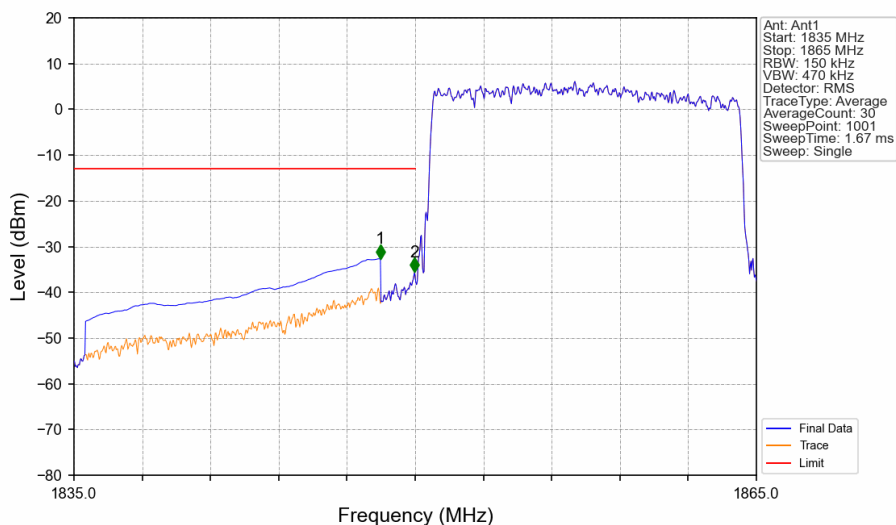
### 3.5.2 Test Graph





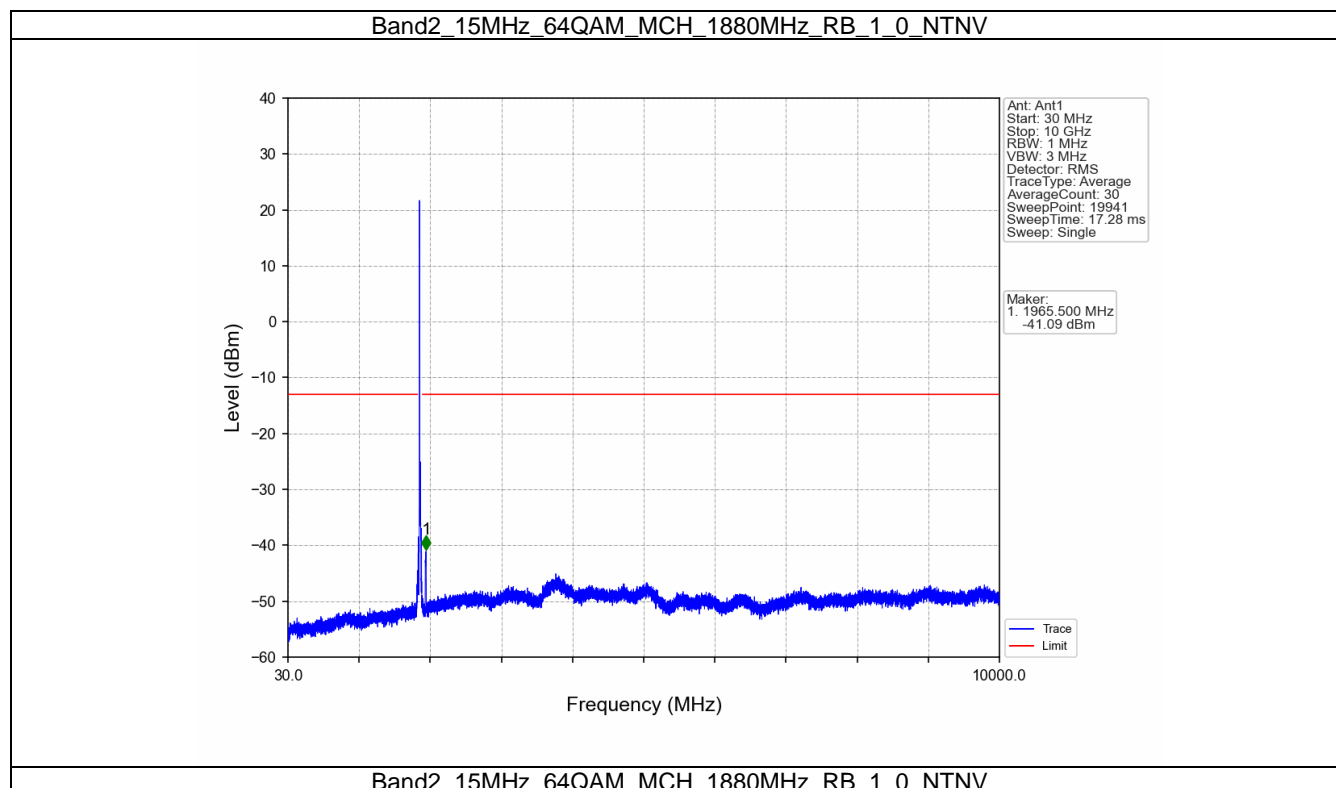


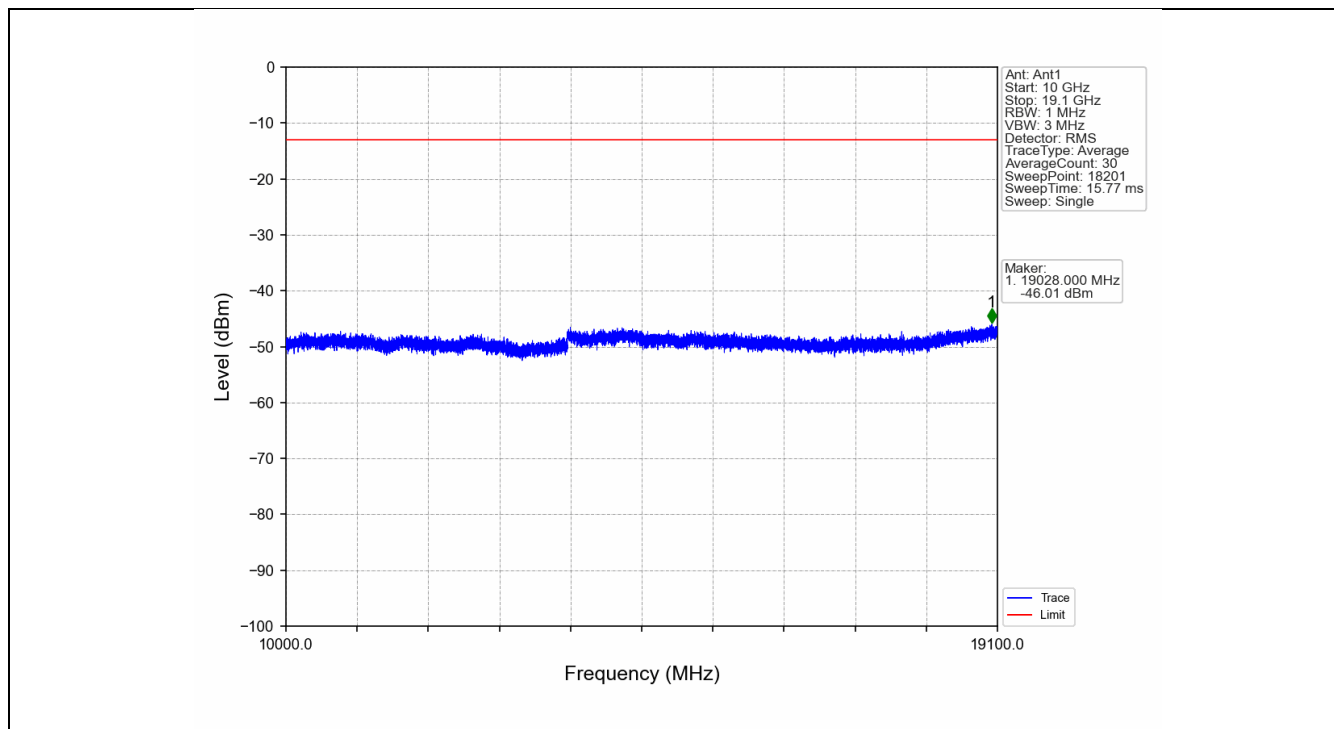


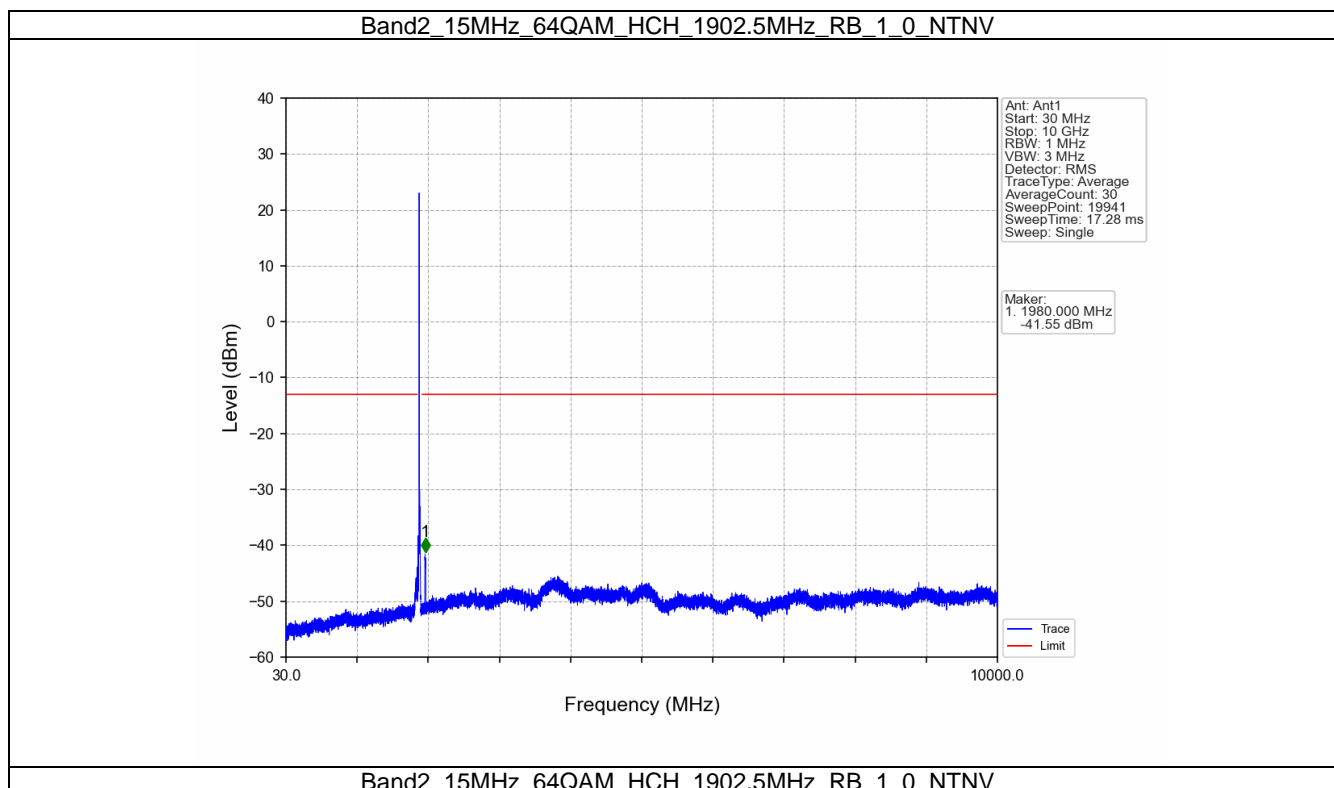


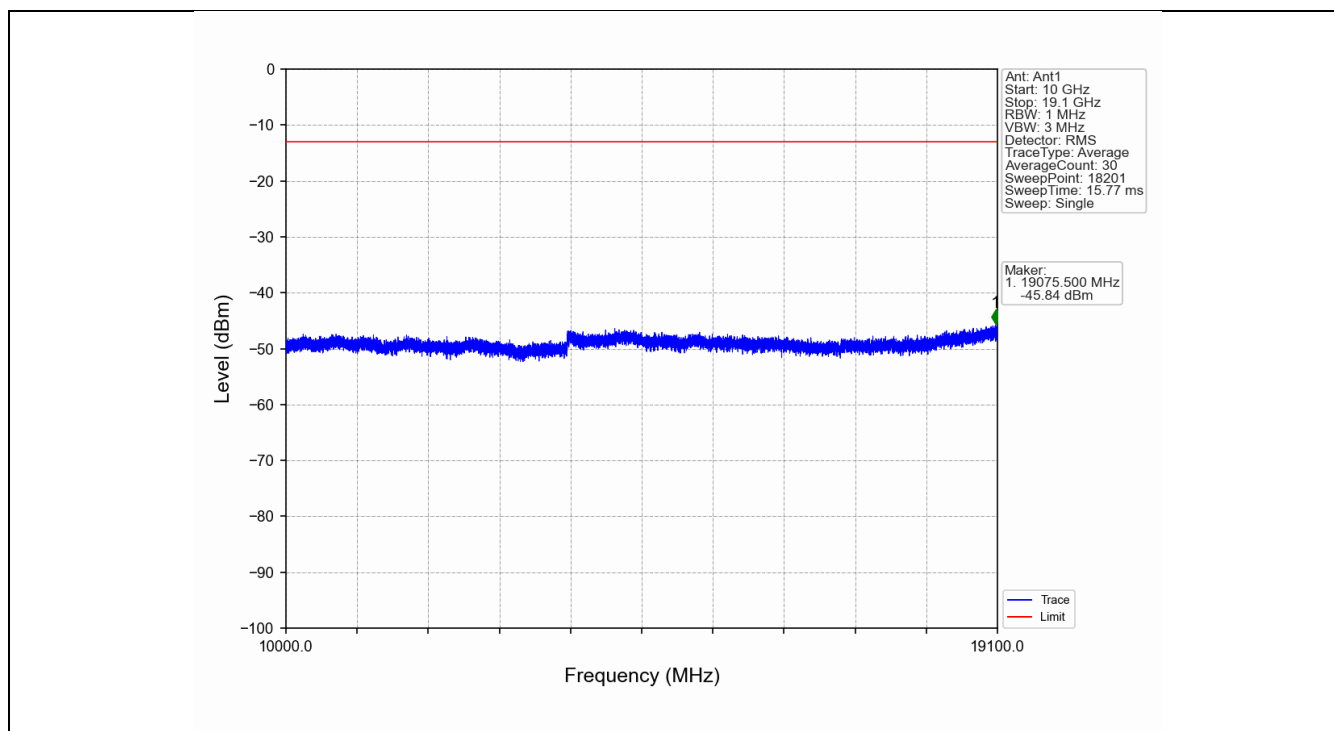
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1835	1849	1	CHP	1	1848.470	-32.67	-13	Pass
1849	1850	/	/	2	1849.970	-35.63	-13	Pass
1850	1865	0.15	/	/	/	/	/	/



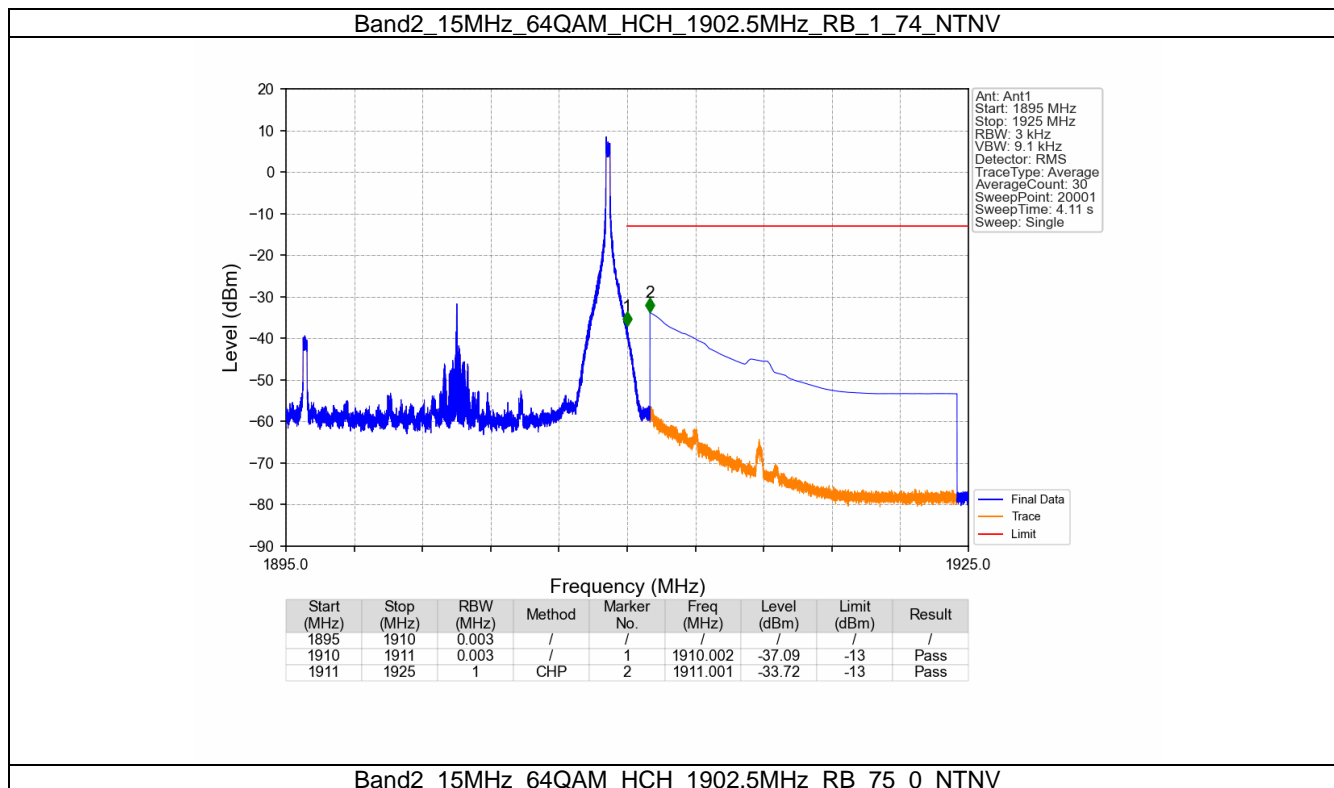


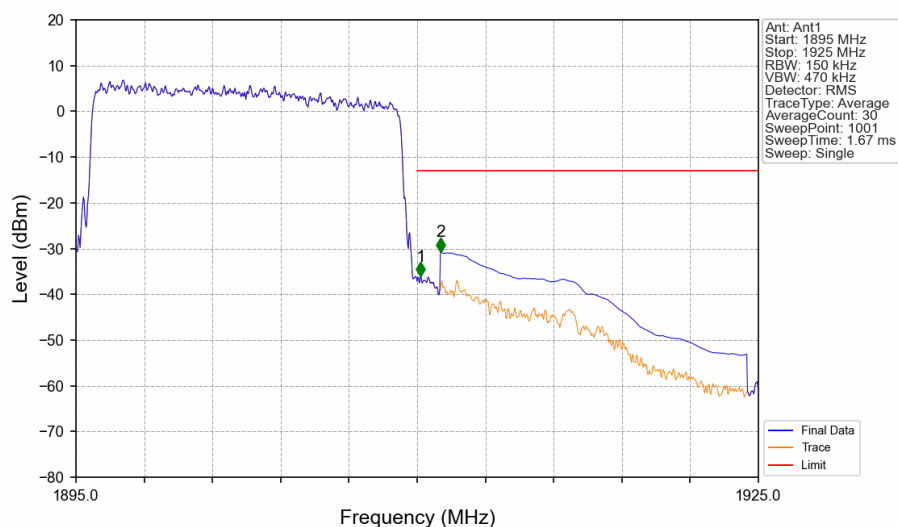












Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1895	1910	0.15	/	1	1910.150	-36.08	-13	Pass
1910	1911	0.15	/	2	1911.020	-30.71	-13	Pass
1911	1925	1	CHP					



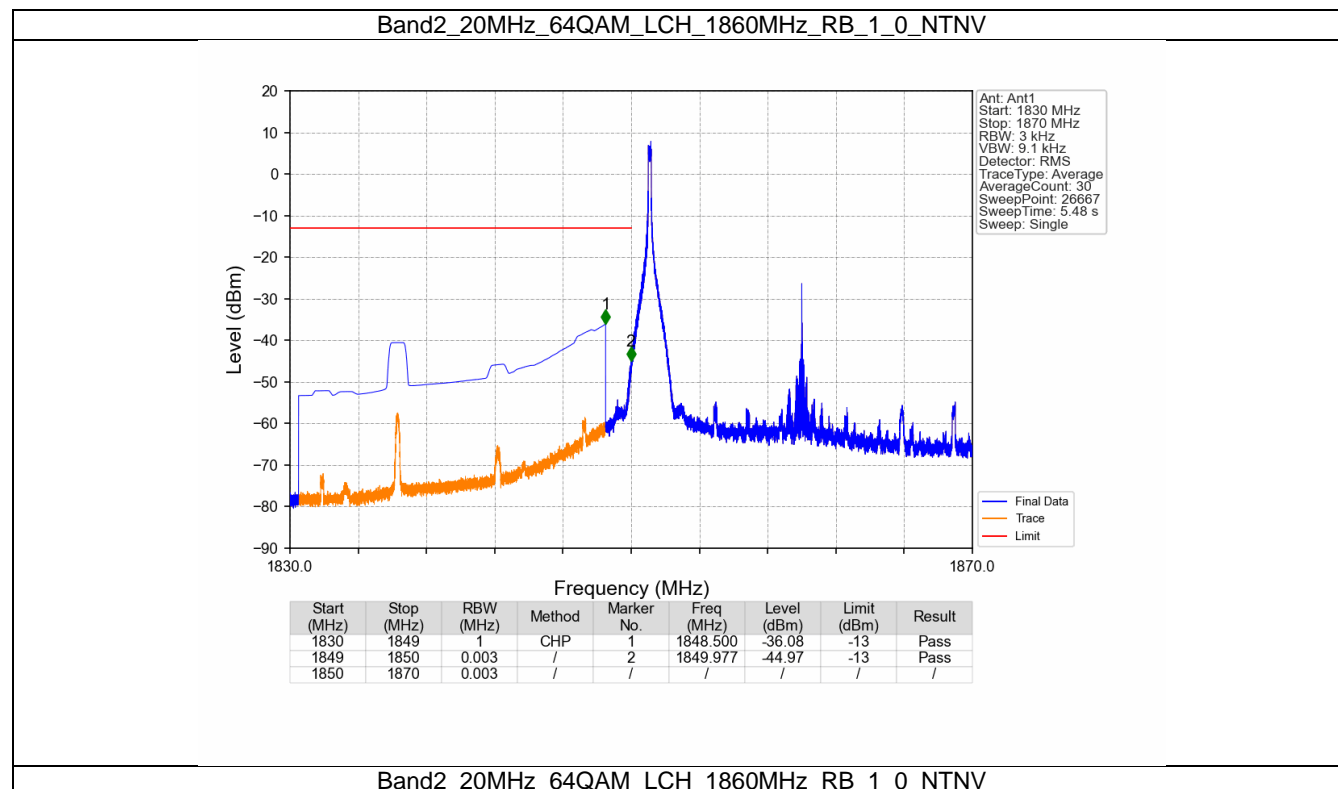
### 3.6 B2\_20MHz

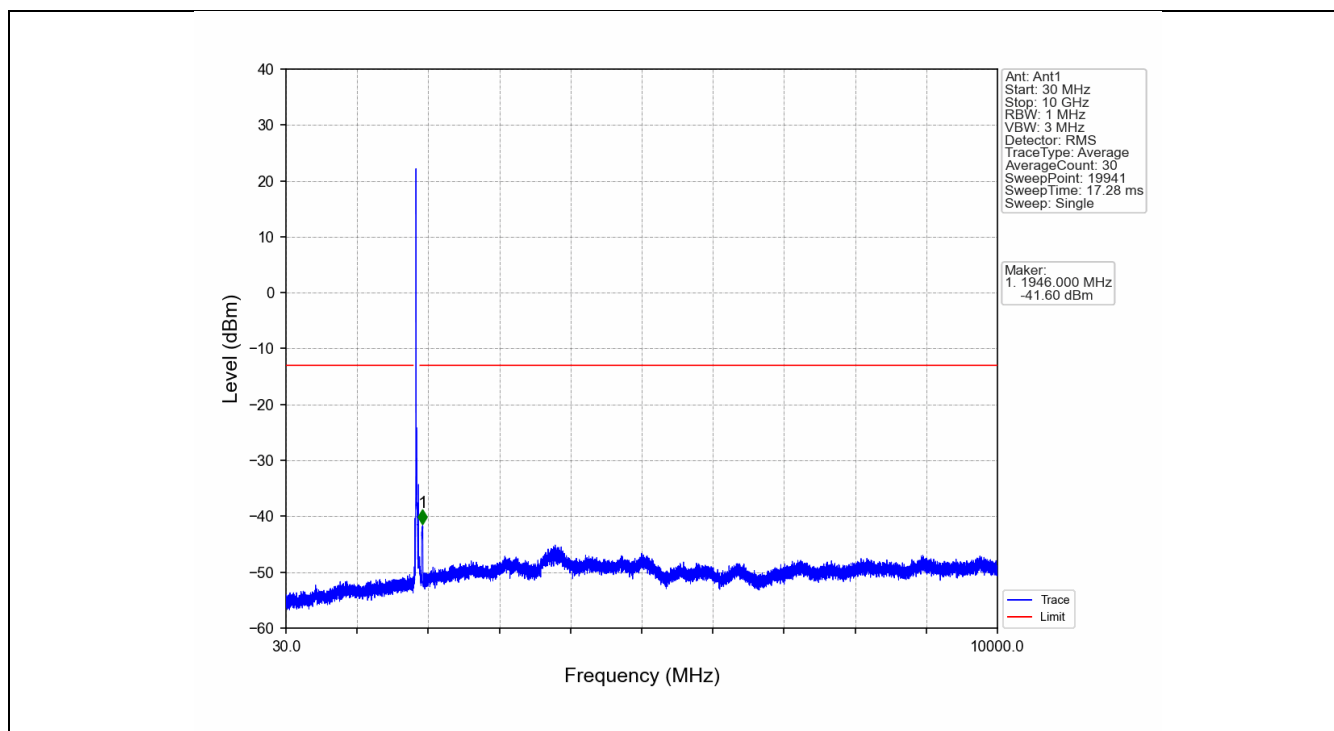
#### 3.6.1 Test Result

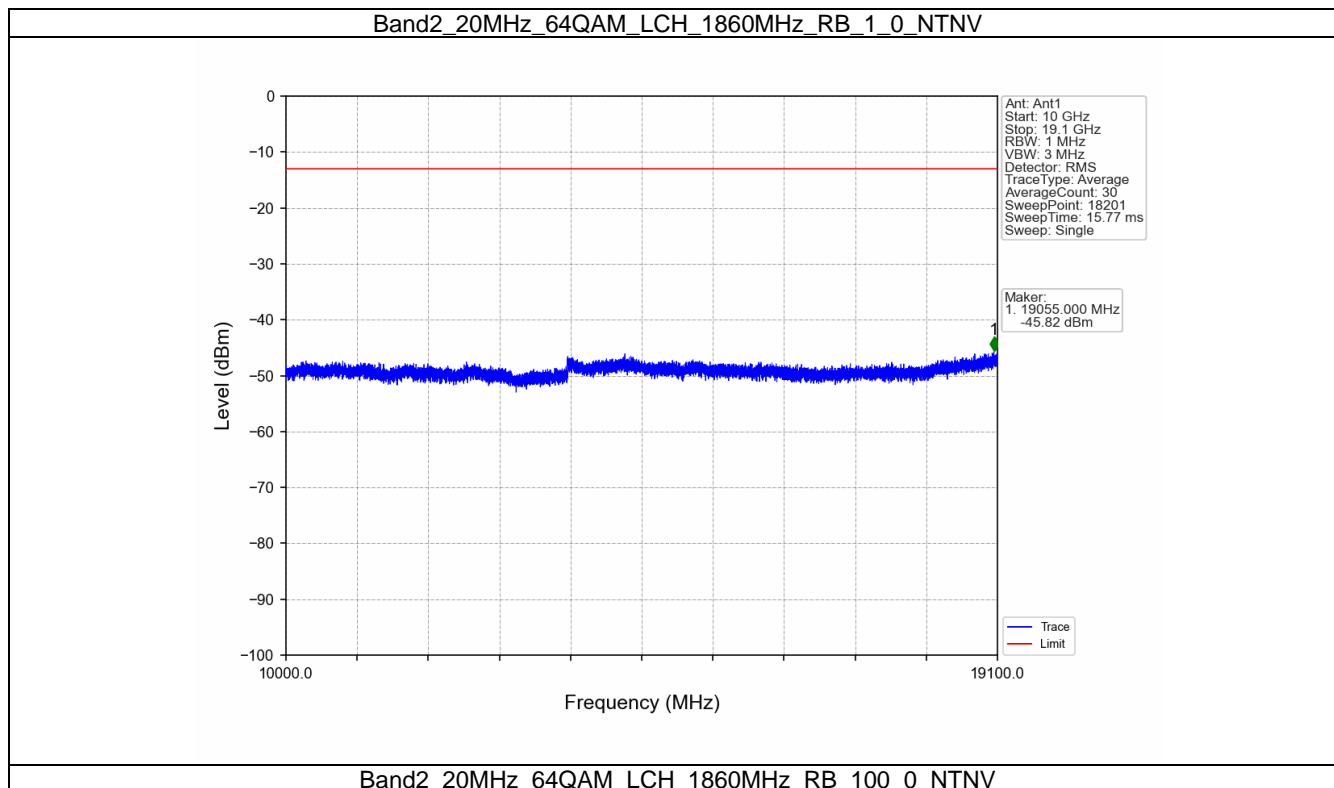
Band: 2 / Bandwidth: 20MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
64QAM	1860	1	0	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass
	1880	1	0	Refer To Test Graph		Pass
	1900	1	0	Refer To Test Graph		Pass
			99	Refer To Test Graph		Pass
		100	0	Refer To Test Graph		Pass



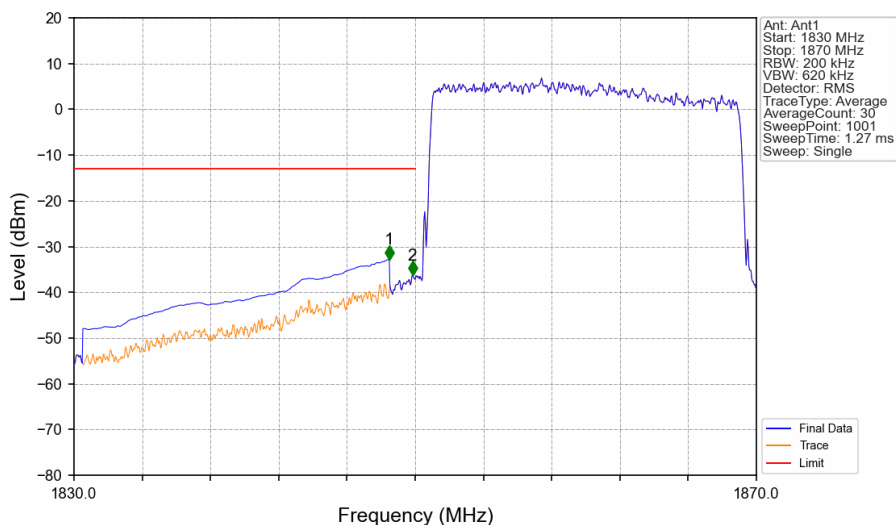
### 3.6.2 Test Graph





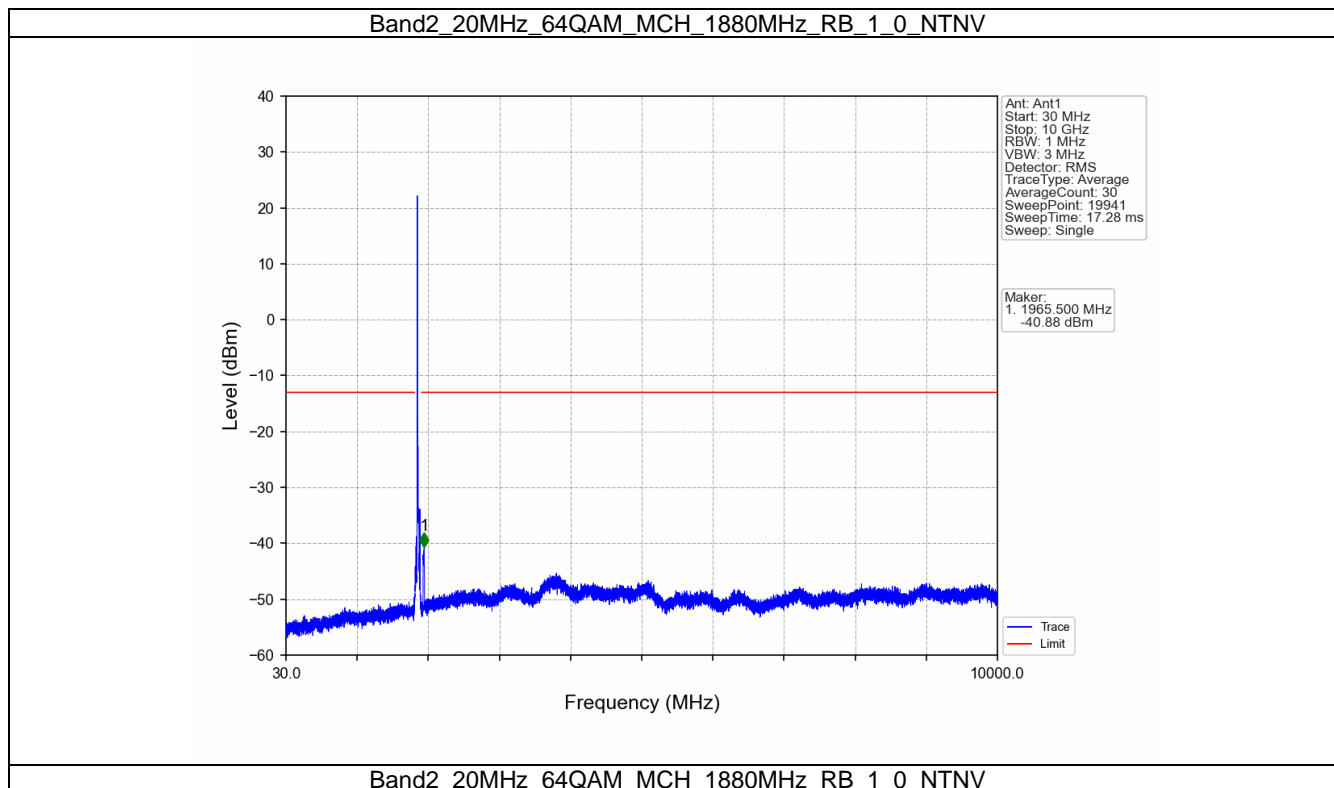


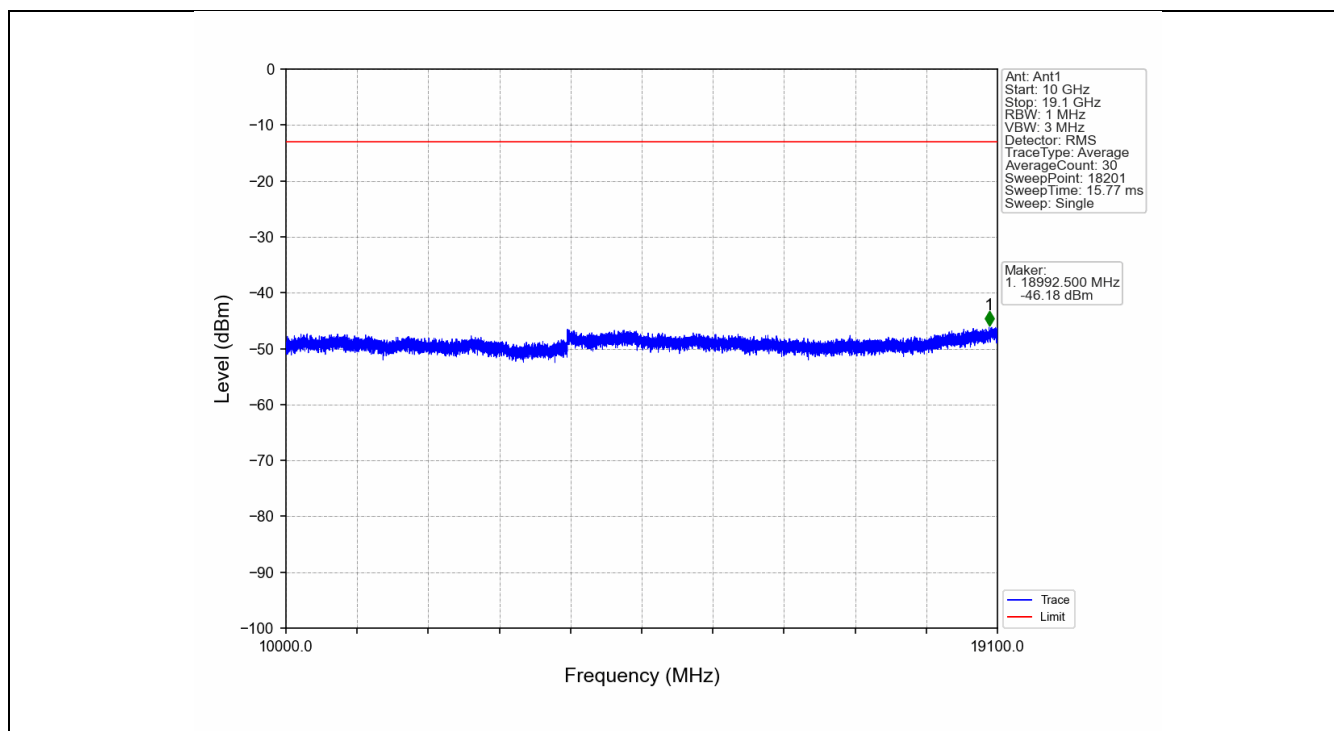


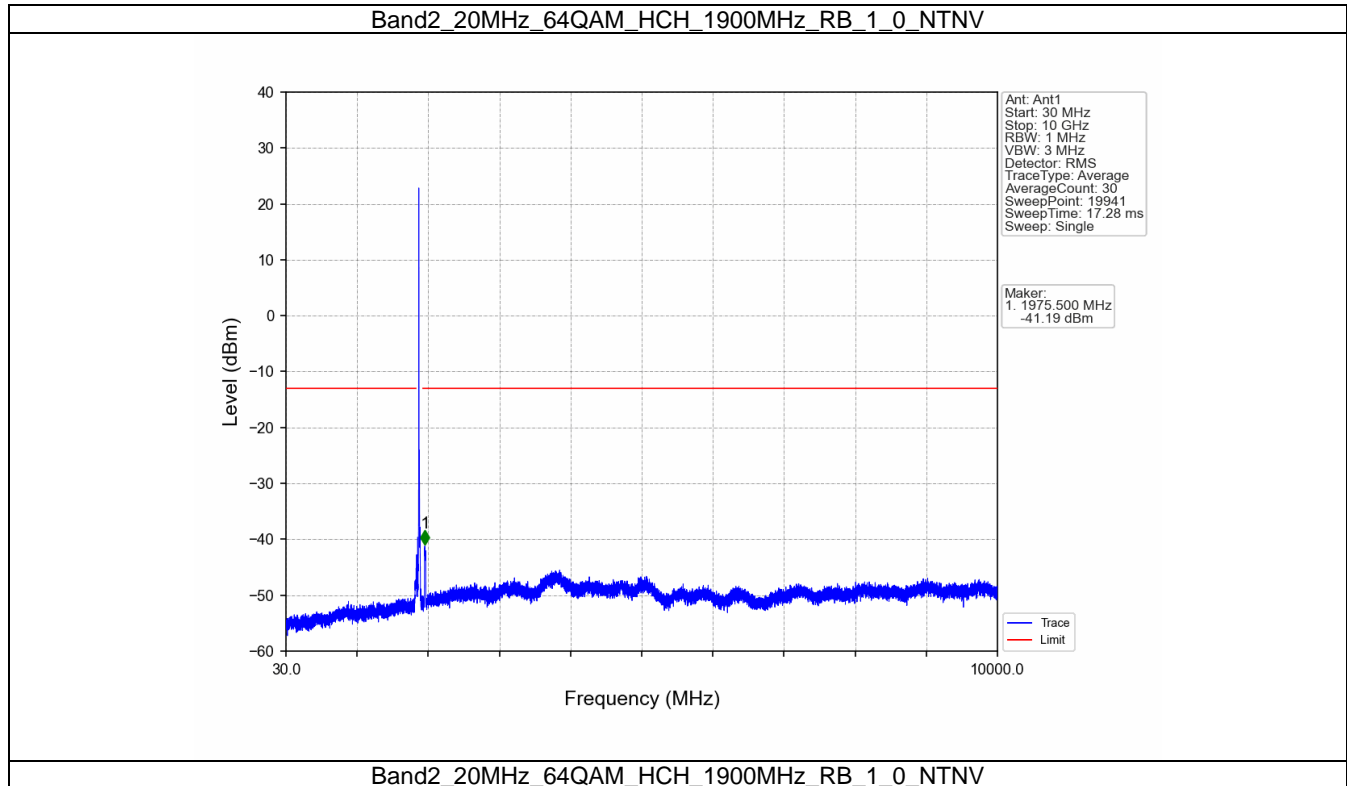


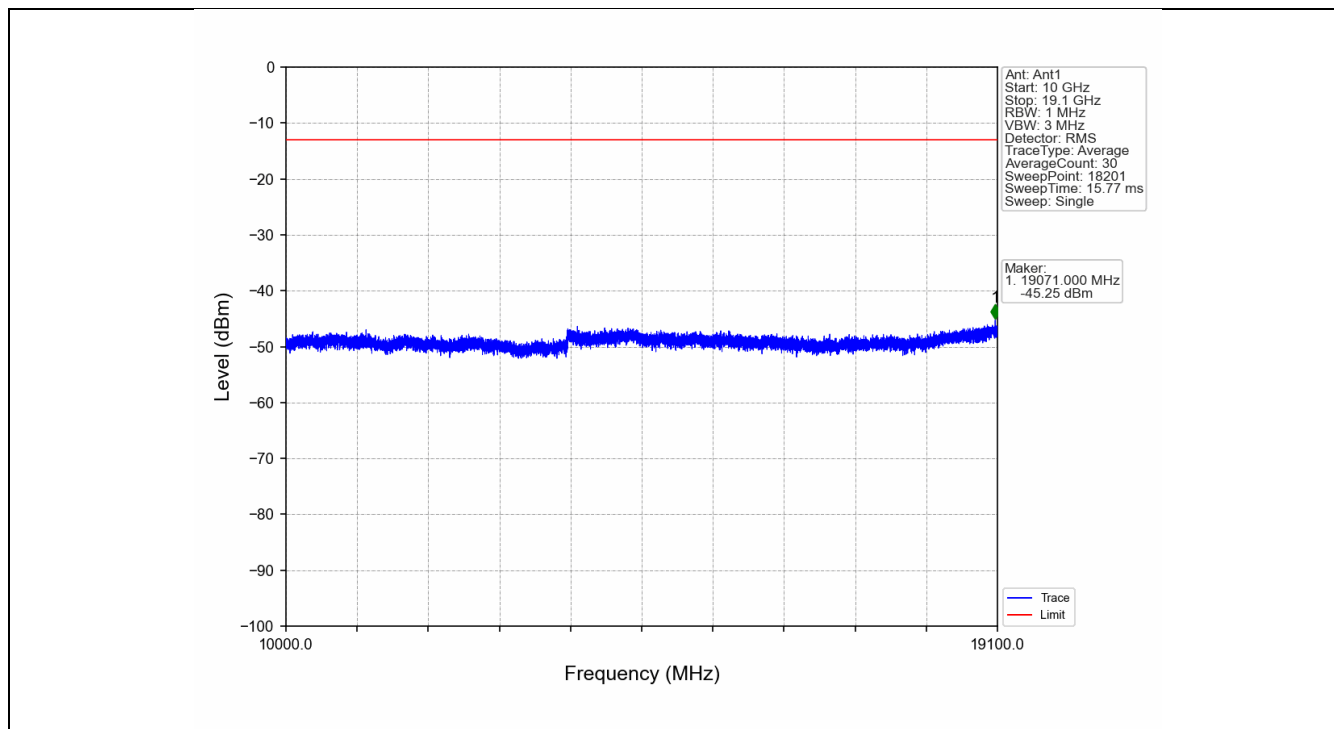
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1830	1849	1	CHP	1	1848.480	-32.83	-13	Pass
1849	1850	0.2	/	2	1849.840	-36.24	-13	Pass
1850	1870	0.2	/	/	/	/	/	/

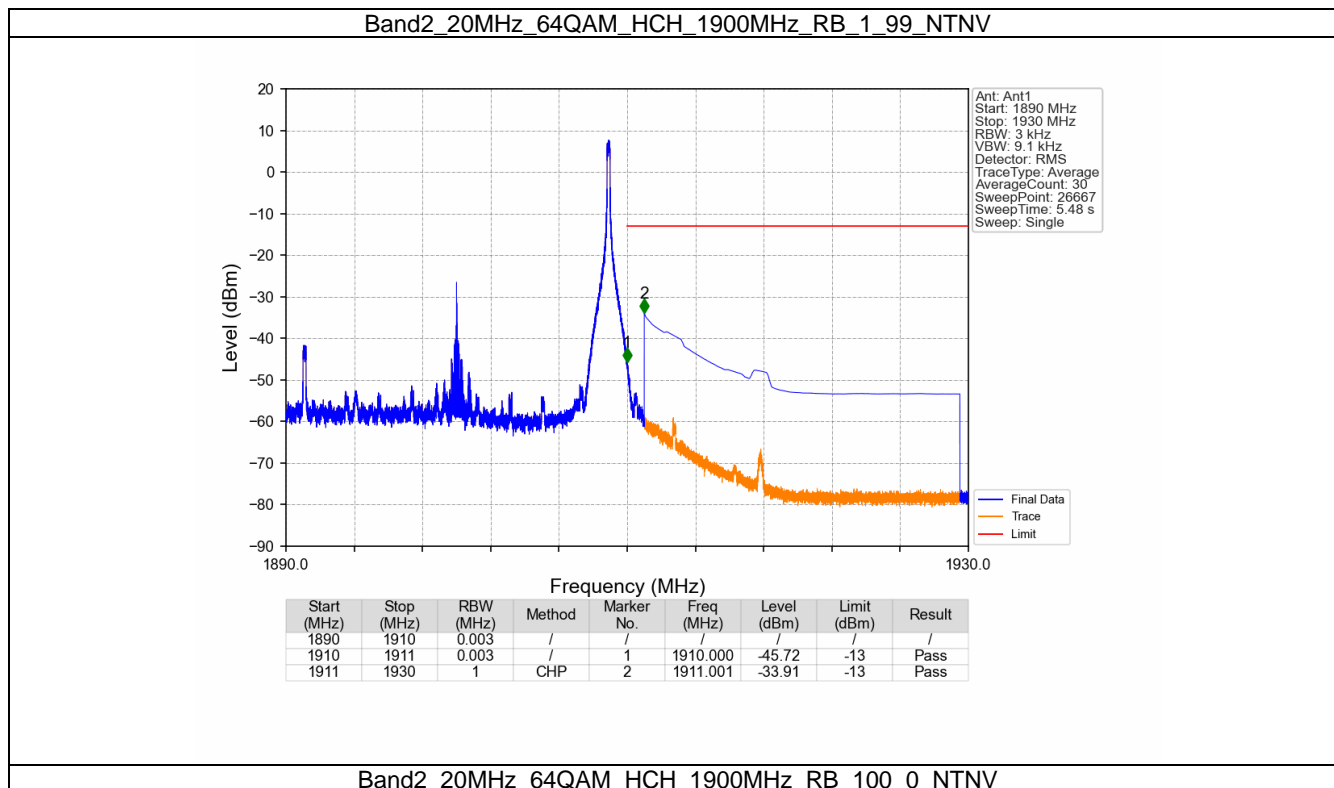








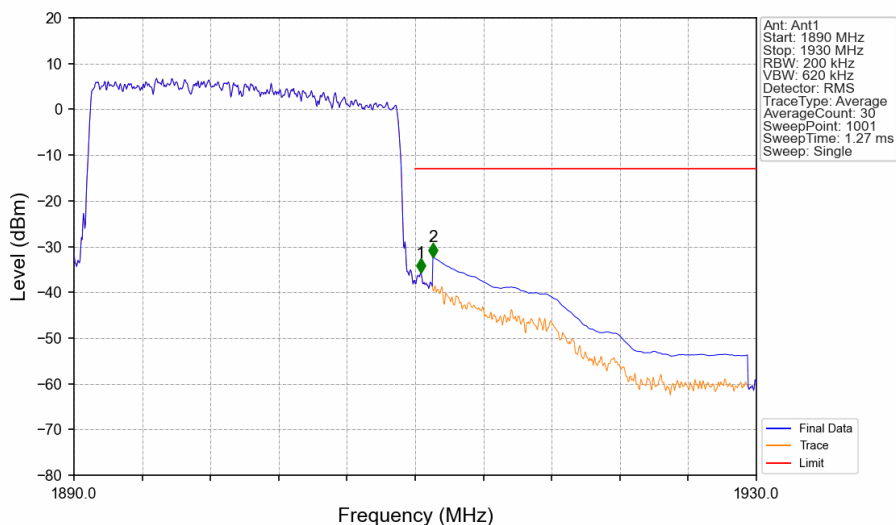




Band2\_20MHz\_64QAM\_HCH\_1900MHz\_RB\_100\_0\_NTNV







Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1890	1910	0.2	/	1	1910.320	-35.78	-13	Pass
1910	1911	0.2	/	2	1911.040	-32.30	-13	Pass
1911	1930	1	CHP					



### 4. Spurious Emission

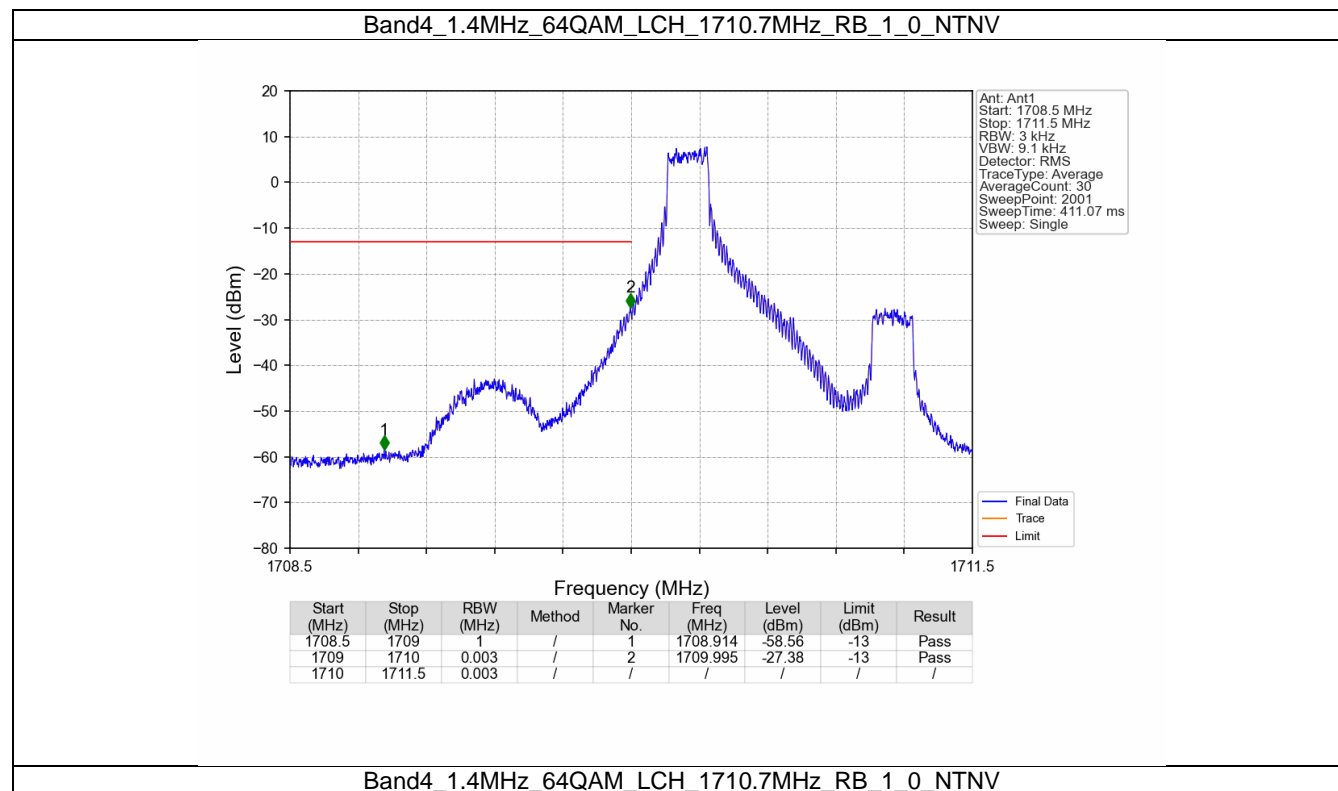
#### 4.1 B4\_1.4MHz

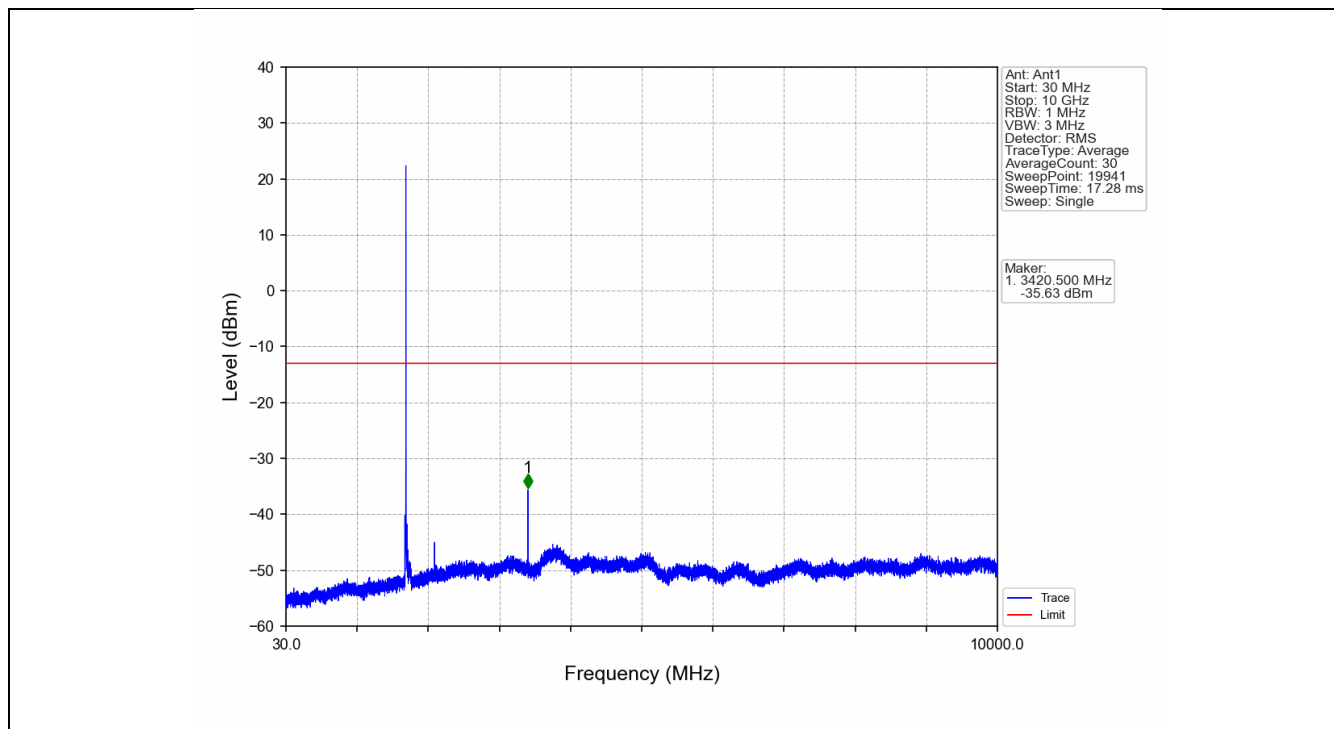
##### 4.1.1 Test Result

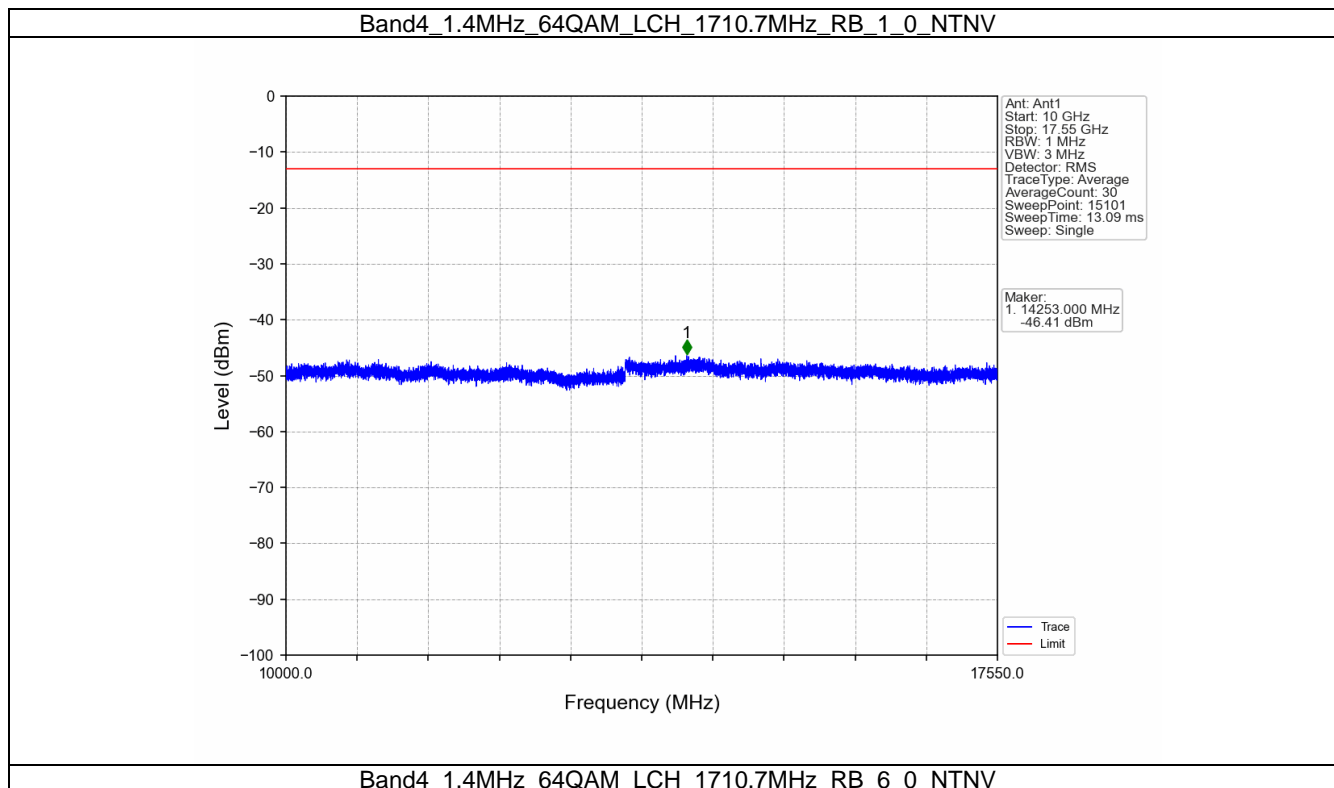
Band: 4 / Bandwidth: 1.4MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
64QAM	1710.7	1	0	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass
	1732.5	1	0	Refer To Test Graph	Pass
	1754.3	1	0	Refer To Test Graph	Pass
			5	Refer To Test Graph	Pass
		6	0	Refer To Test Graph	Pass

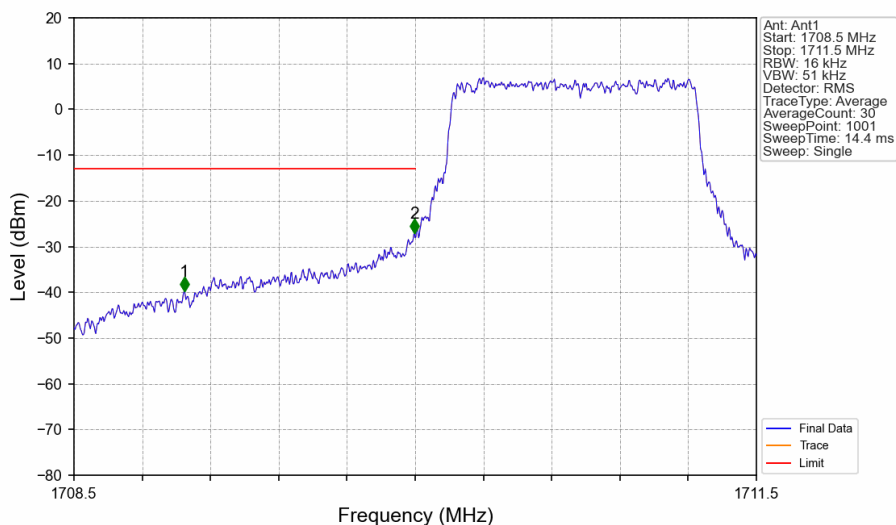


### 4.1.2 Test Graph









Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
1708.5	1709	1	/	1	1708.986	-39.78	-13	Pass
1709	1710	0.016	/	2	1709.997	-27.15	-13	Pass
1710	1711.5	0.016	/	/	/	/	/	/





