

# 1. Effective (Isotropic) Radiated Power Output Data

## 1.1 B13\_5MHz\_ERP

### 1.1.1 Test Result

Band: 13 / Bandwidth: 5MHz / NTV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	779.5	1	0	23.03	-1.98	18.90	<=34.77	Pass		
			13	23.04	-1.98	18.91	<=34.77	Pass		
			24	23.12	-1.98	18.99	<=34.77	Pass		
		12	0	22.13	-1.98	18.00	<=34.77	Pass		
			6	22.06	-1.98	17.93	<=34.77	Pass		
			13	22.08	-1.98	17.95	<=34.77	Pass		
		25	0	22.05	-1.98	17.92	<=34.77	Pass		
		782	1	0	23.09	-1.98	18.96	<=34.77	Pass	
				13	23.05	-1.98	18.92	<=34.77	Pass	
	24			22.99	-1.98	18.86	<=34.77	Pass		
	12		0	22.06	-1.98	17.93	<=34.77	Pass		
			6	22.17	-1.98	18.04	<=34.77	Pass		
			13	22.10	-1.98	17.97	<=34.77	Pass		
	25		0	22.10	-1.98	17.97	<=34.77	Pass		
	784.5		1	0	23.03	-1.98	18.90	<=34.77	Pass	
				13	22.95	-1.98	18.82	<=34.77	Pass	
		24		22.96	-1.98	18.83	<=34.77	Pass		
		12	0	22.05	-1.98	17.92	<=34.77	Pass		
			6	22.06	-1.98	17.93	<=34.77	Pass		
			13	22.14	-1.98	18.01	<=34.77	Pass		
		25	0	22.04	-1.98	17.91	<=34.77	Pass		
		16QAM	779.5	1	0	22.04	-1.98	17.91	<=34.77	Pass
					13	21.84	-1.98	17.71	<=34.77	Pass
	24				22.02	-1.98	17.89	<=34.77	Pass	
12	0			20.87	-1.98	16.74	<=34.77	Pass		
	6			20.86	-1.98	16.73	<=34.77	Pass		
	13			20.88	-1.98	16.75	<=34.77	Pass		
25	0			20.93	-1.98	16.80	<=34.77	Pass		
782	1			0	21.47	-1.98	17.34	<=34.77	Pass	
				13	21.52	-1.98	17.39	<=34.77	Pass	
			24	21.48	-1.98	17.35	<=34.77	Pass		
	12		0	21.02	-1.98	16.89	<=34.77	Pass		
			6	21.05	-1.98	16.92	<=34.77	Pass		
			13	21.06	-1.98	16.93	<=34.77	Pass		
	25		0	21.07	-1.98	16.94	<=34.77	Pass		
	784.5		1	0	22.24	-1.98	18.11	<=34.77	Pass	
				13	22.19	-1.98	18.06	<=34.77	Pass	
24				22.33	-1.98	18.20	<=34.77	Pass		
12			0	20.99	-1.98	16.86	<=34.77	Pass		
			6	20.95	-1.98	16.82	<=34.77	Pass		
			13	21.10	-1.98	16.97	<=34.77	Pass		
25			0	20.99	-1.98	16.86	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 1.2 B13\_10MHz\_ERP

## 1.2.1 Test Result

Band: 13 / Bandwidth: 10MHz / NTV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	782	1	0	23.01	-1.98	18.88	<=34.77	Pass		
			25	23.07	-1.98	18.94	<=34.77	Pass		
			49	23.10	-1.98	18.97	<=34.77	Pass		
		25	0	22.07	-1.98	17.94	<=34.77	Pass		
			13	22.20	-1.98	18.07	<=34.77	Pass		
			25	22.17	-1.98	18.04	<=34.77	Pass		
		50	0	22.07	-1.98	17.94	<=34.77	Pass		
		16QAM	782	1	0	22.71	-1.98	18.58	<=34.77	Pass
					25	22.78	-1.98	18.65	<=34.77	Pass
49	22.69				-1.98	18.56	<=34.77	Pass		
25	0			21.19	-1.98	17.06	<=34.77	Pass		
	13			21.22	-1.98	17.09	<=34.77	Pass		
	25			21.18	-1.98	17.05	<=34.77	Pass		
50	0			21.16	-1.98	17.03	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 2. Frequency Stability

### 2.1 B13\_5MHz

#### 2.1.1 Test Result

Band: 13 / Bandwidth: 5MHz										
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict	
		Size	Offset				Result	Limit		
QPSK	779.5	25	0	20	3.27	15.321	0.0197	-2.5 to 2.5	Pass	
					3.85	0.715	0.0009	-2.5 to 2.5	Pass	
					4.43	-12.202	-0.0157	-2.5 to 2.5	Pass	
				-30	3.85	-24.433	-0.0313	-2.5 to 2.5	Pass	
					-20	3.85	-37.837	-0.0485	-2.5 to 2.5	Pass
						-10	3.85	-48.609	-0.0624	-2.5 to 2.5
				0	3.85	-5.121	-0.0066	-2.5 to 2.5	Pass	
					10	3.85	-13.218	-0.0170	-2.5 to 2.5	Pass
					30	3.85	-22.717	-0.0291	-2.5 to 2.5	Pass
				40	3.85	-30.642	-0.0393	-2.5 to 2.5	Pass	
					50	3.85	-37.994	-0.0487	-2.5 to 2.5	Pass
						3.85	18.010	0.0230	-2.5 to 2.5	Pass
	782	25	0	20	3.85	8.368	0.0107	-2.5 to 2.5	Pass	
					4.43	-2.146	-0.0027	-2.5 to 2.5	Pass	
					-30	3.85	-9.398	-0.0120	-2.5 to 2.5	Pass
				-20	3.85	-19.197	-0.0245	-2.5 to 2.5	Pass	
					-10	3.85	-25.535	-0.0327	-2.5 to 2.5	Pass
				0	3.85	-32.601	-0.0417	-2.5 to 2.5	Pass	
					10	3.85	-38.967	-0.0498	-2.5 to 2.5	Pass
					30	3.85	-45.176	-0.0578	-2.5 to 2.5	Pass
				40	3.85	-19.526	-0.0250	-2.5 to 2.5	Pass	
					50	3.85	-2.804	-0.0036	-2.5 to 2.5	Pass
						3.85	19.541	0.0249	-2.5 to 2.5	Pass
				784.5	25	0	20	3.85	15.006	0.0191

					4.43	2.275	0.0029	-2.5 to 2.5	Pass
				-30	3.85	-17.710	-0.0226	-2.5 to 2.5	Pass
				-20	3.85	-37.251	-0.0475	-2.5 to 2.5	Pass
				-10	3.85	-11.115	-0.0142	-2.5 to 2.5	Pass
				0	3.85	-29.025	-0.0370	-2.5 to 2.5	Pass
				10	3.85	-43.716	-0.0557	-2.5 to 2.5	Pass
				30	3.85	-5.193	-0.0066	-2.5 to 2.5	Pass
				40	3.85	4.220	0.0054	-2.5 to 2.5	Pass
				50	3.85	8.497	0.0108	-2.5 to 2.5	Pass
16QAM	779.5	25	0	20	3.27	-45.805	-0.0588	-2.5 to 2.5	Pass
					3.85	-47.035	-0.0603	-2.5 to 2.5	Pass
					4.43	-49.124	-0.0630	-2.5 to 2.5	Pass
				-30	3.85	-50.826	-0.0652	-2.5 to 2.5	Pass
				-20	3.85	-5.136	-0.0066	-2.5 to 2.5	Pass
				-10	3.85	-21.887	-0.0281	-2.5 to 2.5	Pass
				0	3.85	-24.791	-0.0318	-2.5 to 2.5	Pass
				10	3.85	-22.845	-0.0293	-2.5 to 2.5	Pass
				30	3.85	-21.243	-0.0273	-2.5 to 2.5	Pass
				40	3.85	-19.469	-0.0250	-2.5 to 2.5	Pass
	50	3.85	-18.396	-0.0236	-2.5 to 2.5	Pass			
	782	25	0	20	3.27	-10.672	-0.0136	-2.5 to 2.5	Pass
					3.85	-9.627	-0.0123	-2.5 to 2.5	Pass
					4.43	-10.057	-0.0129	-2.5 to 2.5	Pass
				-30	3.85	-11.387	-0.0146	-2.5 to 2.5	Pass
				-20	3.85	-11.029	-0.0141	-2.5 to 2.5	Pass
				-10	3.85	-12.846	-0.0164	-2.5 to 2.5	Pass
				0	3.85	-13.433	-0.0172	-2.5 to 2.5	Pass
				10	3.85	-14.405	-0.0184	-2.5 to 2.5	Pass
				30	3.85	-14.305	-0.0183	-2.5 to 2.5	Pass
				40	3.85	-15.092	-0.0193	-2.5 to 2.5	Pass
	50	3.85	-15.721	-0.0201	-2.5 to 2.5	Pass			
	784.5	25	0	20	3.27	8.125	0.0104	-2.5 to 2.5	Pass
					3.85	13.447	0.0171	-2.5 to 2.5	Pass
					4.43	17.166	0.0219	-2.5 to 2.5	Pass
				-30	3.85	21.715	0.0277	-2.5 to 2.5	Pass
				-20	3.85	24.447	0.0312	-2.5 to 2.5	Pass
				-10	3.85	27.709	0.0353	-2.5 to 2.5	Pass
				0	3.85	30.899	0.0394	-2.5 to 2.5	Pass
				10	3.85	33.131	0.0422	-2.5 to 2.5	Pass
30				3.85	35.448	0.0452	-2.5 to 2.5	Pass	
40				3.85	38.624	0.0492	-2.5 to 2.5	Pass	
50	3.85	40.655	0.0518	-2.5 to 2.5	Pass				

## 2.2 B13\_10MHz

### 2.2.1 Test Result

Band: 13 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	782	50	0	20	3.27	-20.084	-0.0257	-2.5 to 2.5	Pass
					3.85	-12.360	-0.0158	-2.5 to 2.5	Pass
					4.43	-31.257	-0.0400	-2.5 to 2.5	Pass
				-30	3.85	-9.942	-0.0127	-2.5 to 2.5	Pass
				-20	3.85	-11.058	-0.0141	-2.5 to 2.5	Pass

				-10	3.85	-38.810	-0.0496	-2.5 to 2.5	Pass
				0	3.85	-22.202	-0.0284	-2.5 to 2.5	Pass
				10	3.85	-20.957	-0.0268	-2.5 to 2.5	Pass
				30	3.85	-23.661	-0.0303	-2.5 to 2.5	Pass
				40	3.85	-42.615	-0.0545	-2.5 to 2.5	Pass
				50	3.85	-6.623	-0.0085	-2.5 to 2.5	Pass
16QAM	782	50	0	20	3.27	-25.520	-0.0326	-2.5 to 2.5	Pass
					3.85	-33.059	-0.0423	-2.5 to 2.5	Pass
					4.43	-38.853	-0.0497	-2.5 to 2.5	Pass
				-30	3.85	-45.433	-0.0581	-2.5 to 2.5	Pass
				-20	3.85	-50.783	-0.0649	-2.5 to 2.5	Pass
				-10	3.85	-4.892	-0.0063	-2.5 to 2.5	Pass
				0	3.85	-9.313	-0.0119	-2.5 to 2.5	Pass
				10	3.85	-13.075	-0.0167	-2.5 to 2.5	Pass
				30	3.85	-17.395	-0.0222	-2.5 to 2.5	Pass
				40	3.85	-22.087	-0.0282	-2.5 to 2.5	Pass
				50	3.85	-25.148	-0.0322	-2.5 to 2.5	Pass

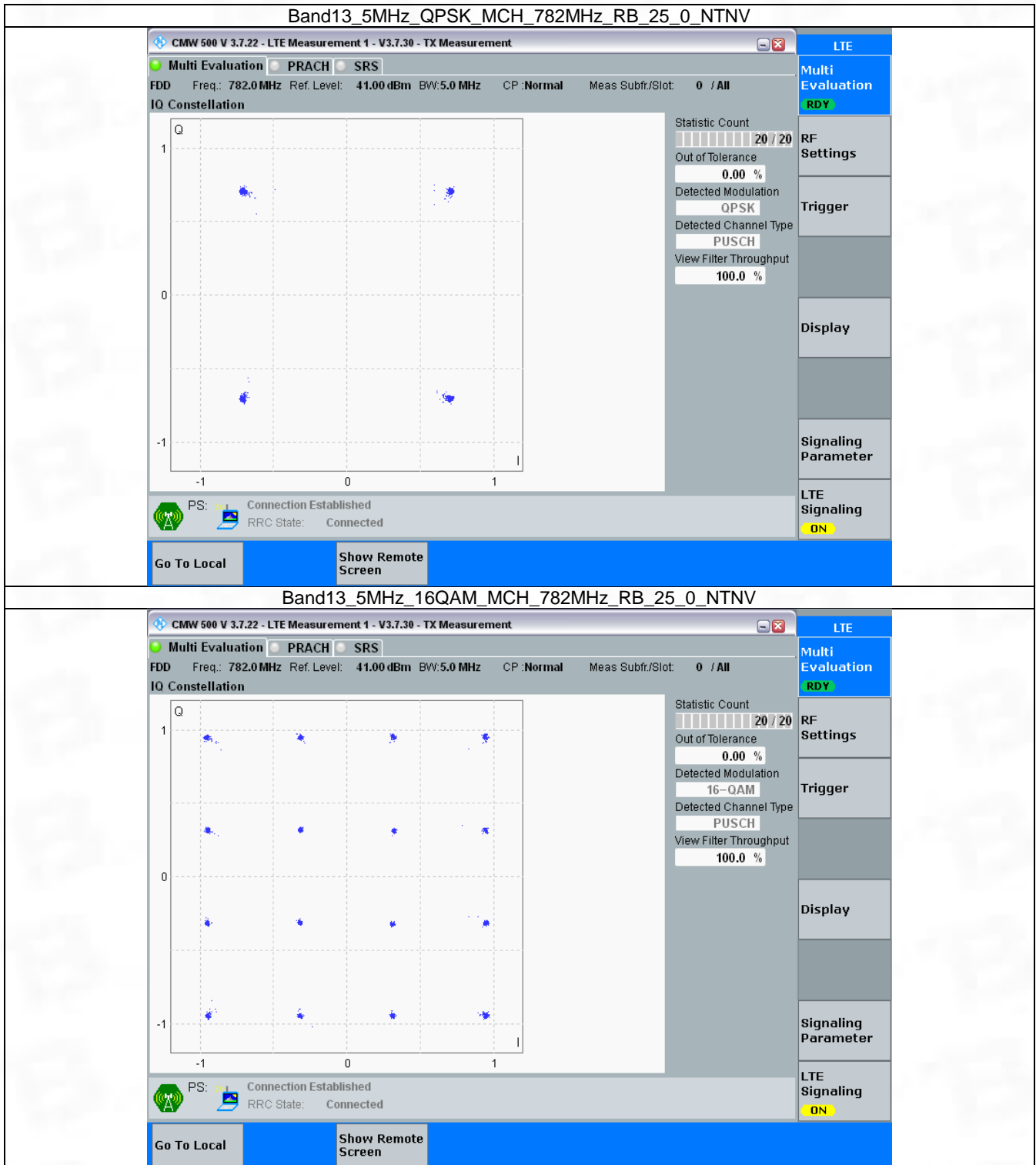
### 3. Modulation Characteristics

#### 3.1 B13\_5MHz

##### 3.1.1 Test Result

Band: 13 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	782	25	0	Refer To Test Graph		Pass
16QAM	782	25	0	Refer To Test Graph		Pass

### 3.1.2 Test Graph

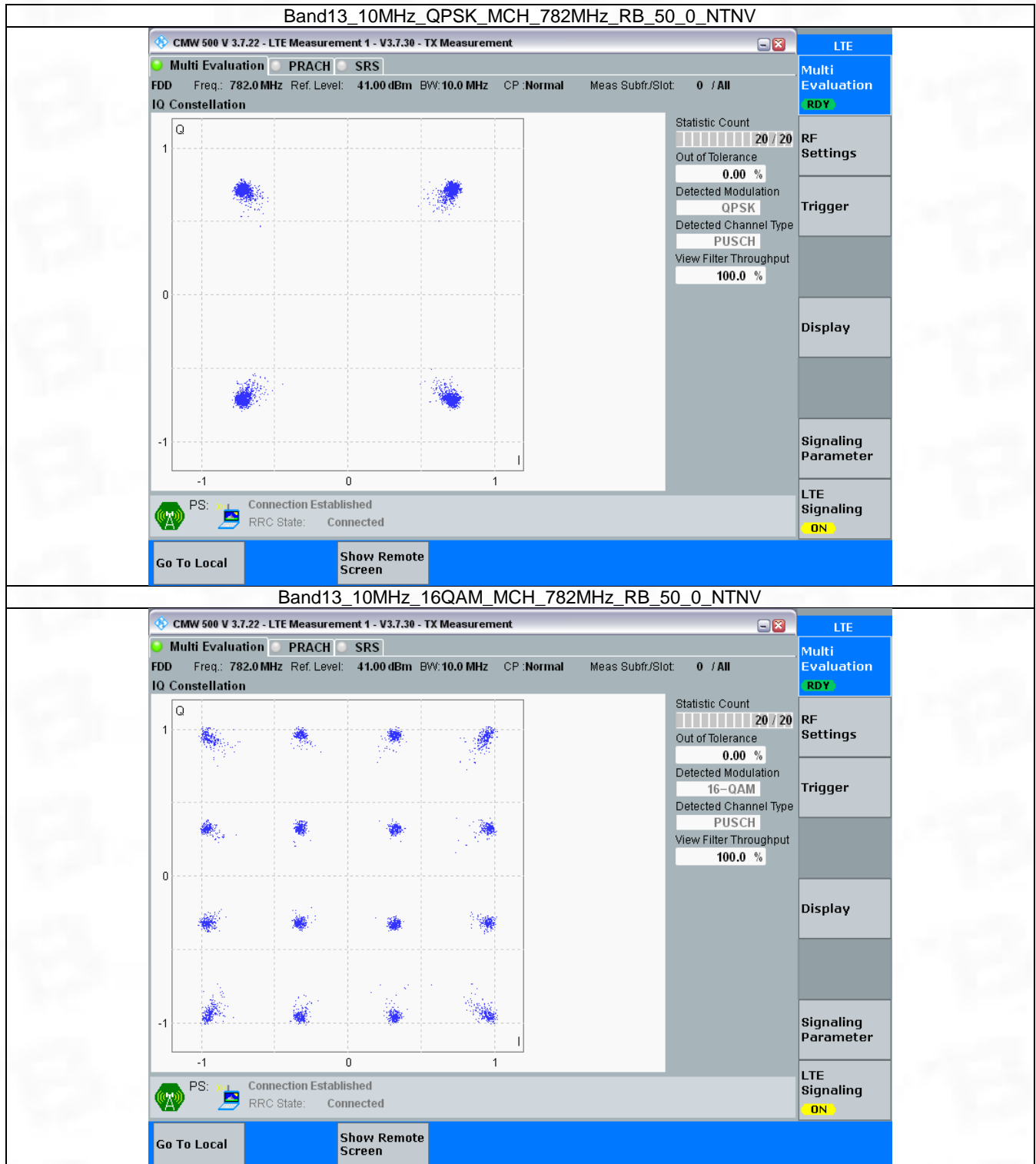


### 3.2 B13\_10MHz

#### 3.2.1 Test Result

Band: 13 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	782	50	0	Refer To Test Graph		Pass
16QAM	782	50	0	Refer To Test Graph		Pass

### 3.2.2 Test Graph



## 4. 99% & 26dB Bandwidth

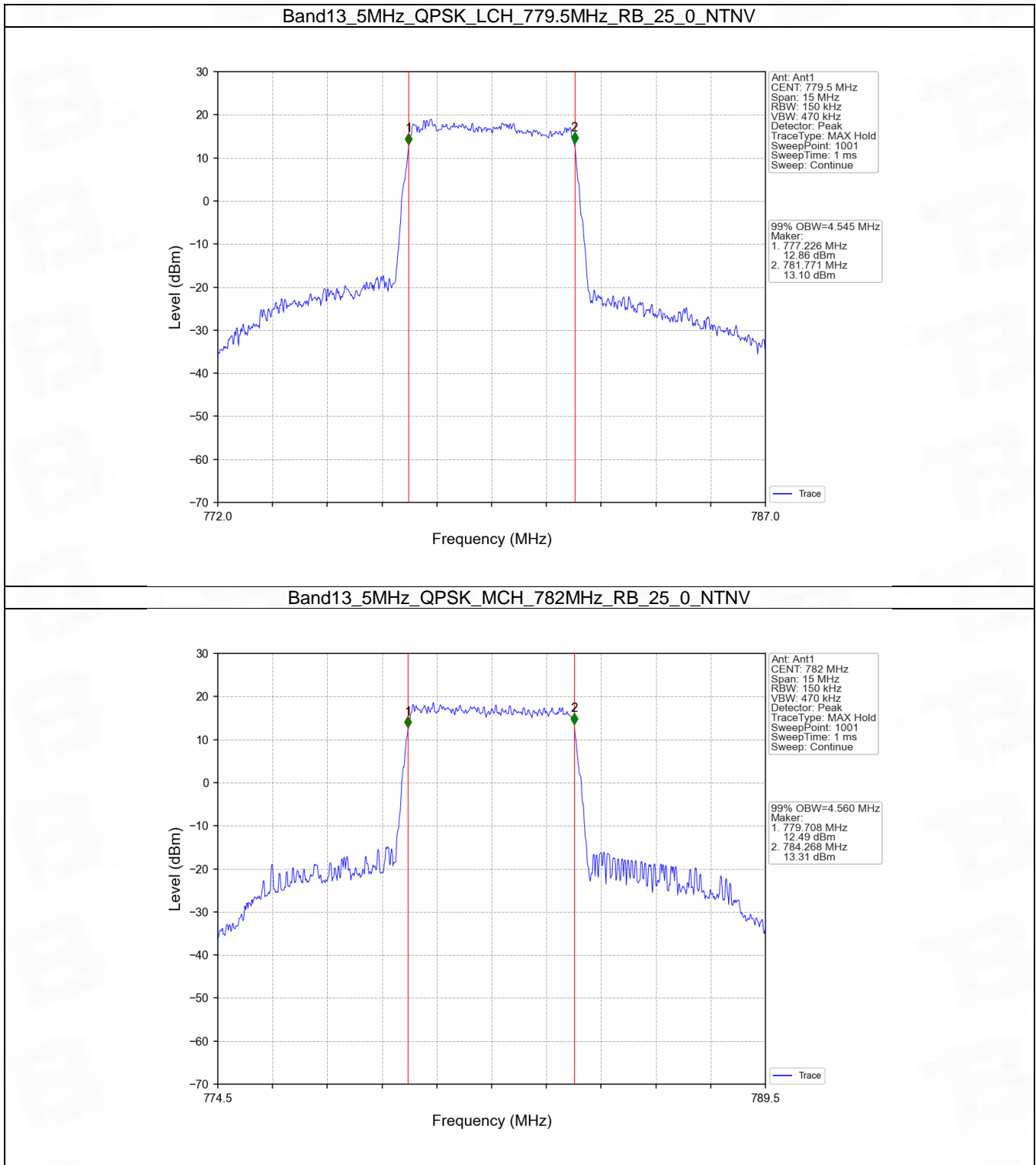
### 4.1 Band13\_OBW

#### 4.1.1 Test Result

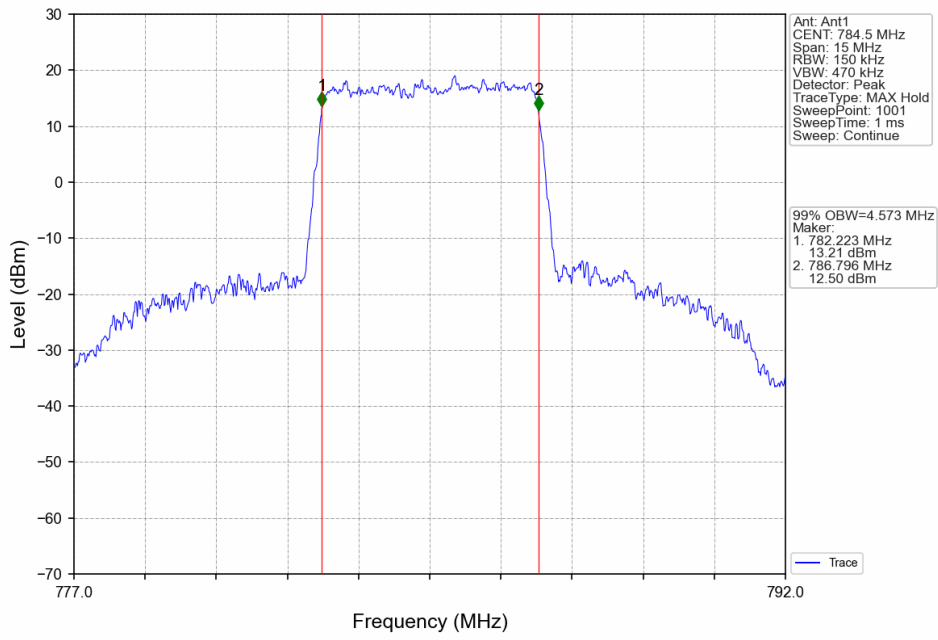
Band: 13 / NTV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	779.5	25	0	4.545	/	Pass
		782	25	0	4.560	/	Pass
		784.5	25	0	4.573	/	Pass
	16QAM	779.5	25	0	4.587	/	Pass
		782	25	0	4.566	/	Pass
		784.5	25	0	4.560	/	Pass
10	QPSK	782	50	0	9.077	/	Pass
	16QAM	782	50	0	9.115	/	Pass



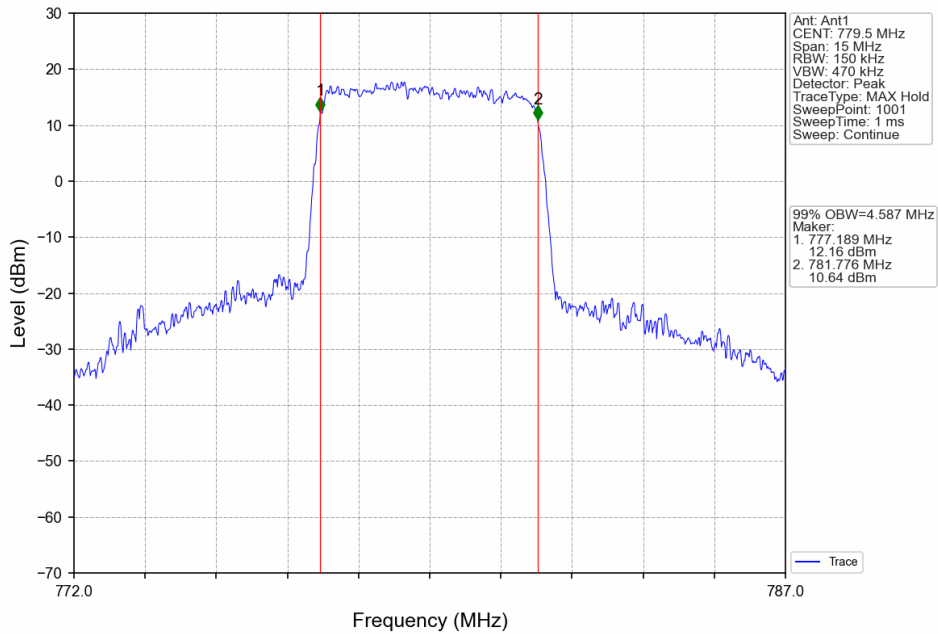
### 4.1.2 Test Graph



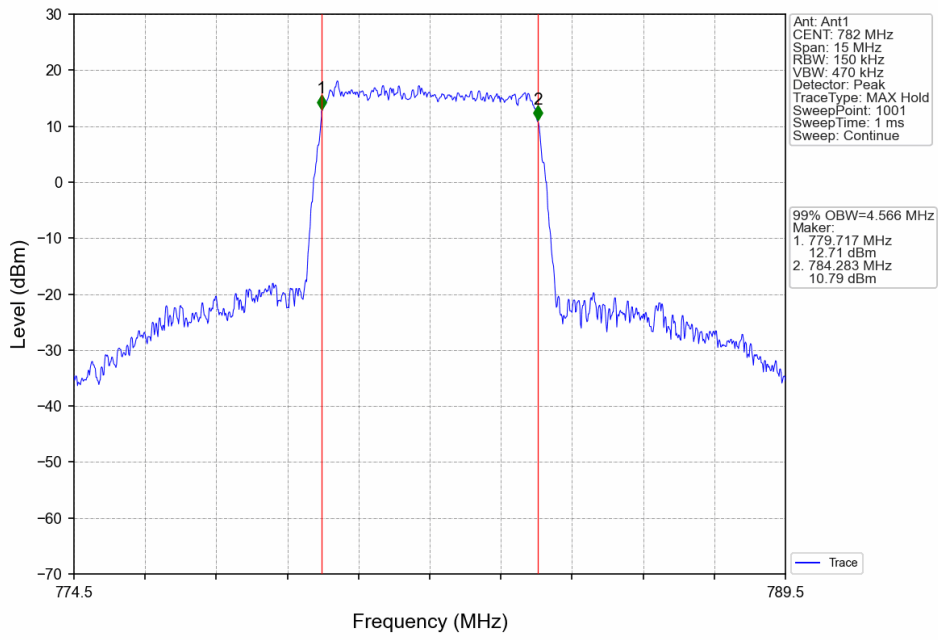
Band13\_5MHz\_QPSK\_HCH\_784.5MHz\_RB\_25\_0\_NTNV



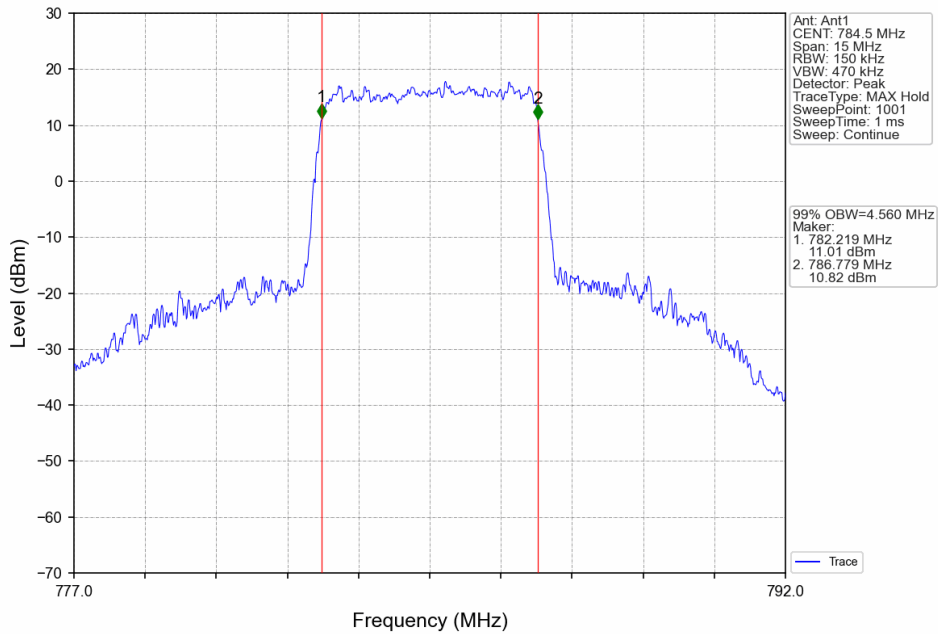
Band13\_5MHz\_16QAM\_LCH\_779.5MHz\_RB\_25\_0\_NTNV



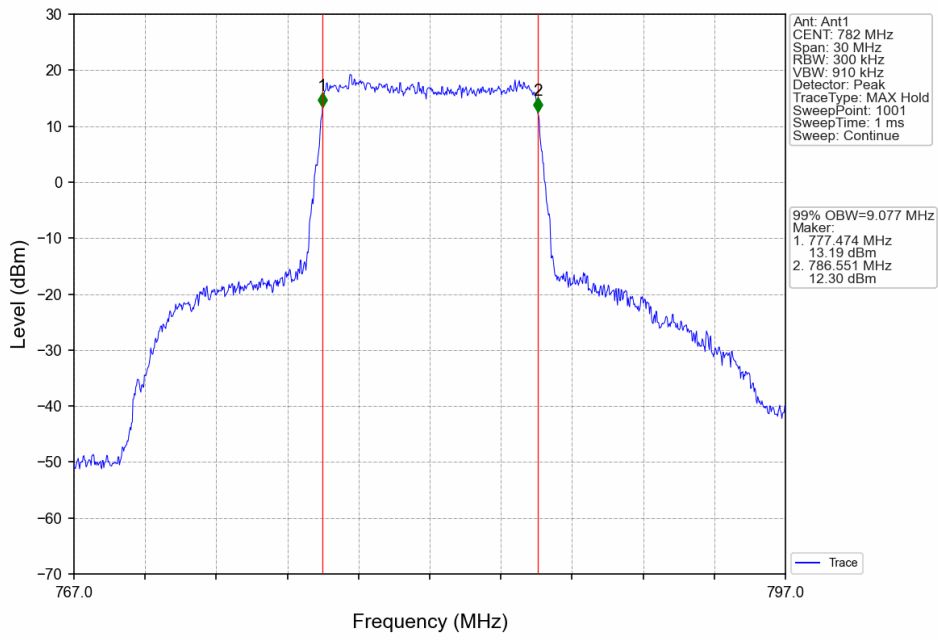
Band13\_5MHz\_16QAM\_MCH\_782MHz\_RB\_25\_0\_NTNV



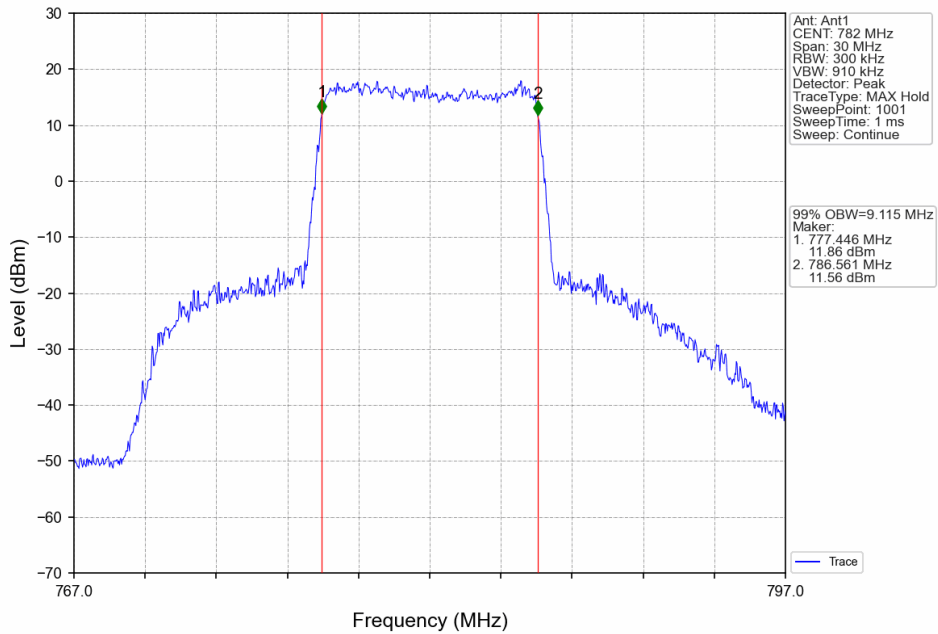
Band13\_5MHz\_16QAM\_HCH\_784.5MHz\_RB\_25\_0\_NTNV



Band13\_10MHz\_QPSK\_MCH\_782MHz\_RB\_50\_0\_NTNV



Band13\_10MHz\_16QAM\_MCH\_782MHz\_RB\_50\_0\_NTNV

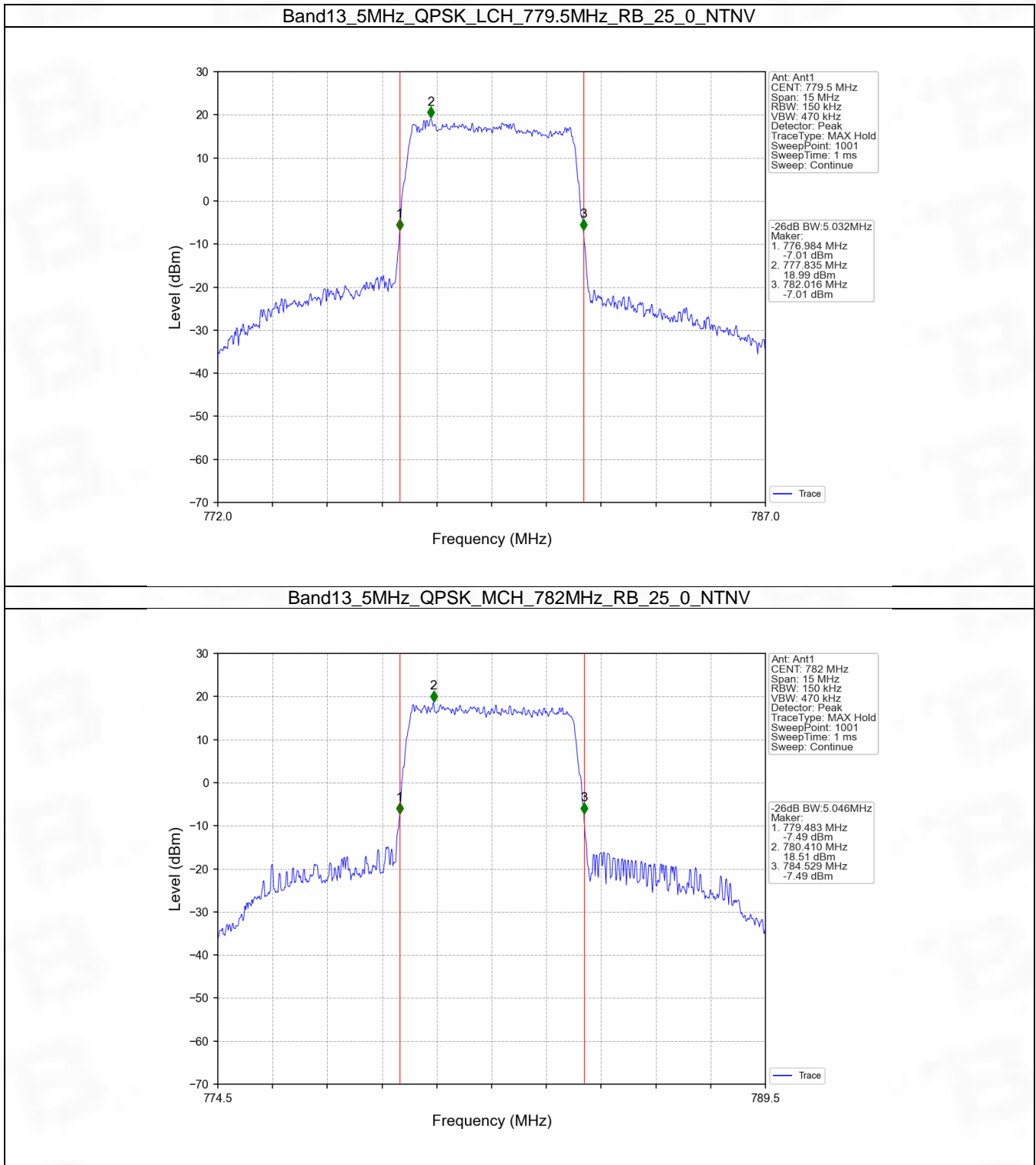


## 4.2 Band13\_XDB

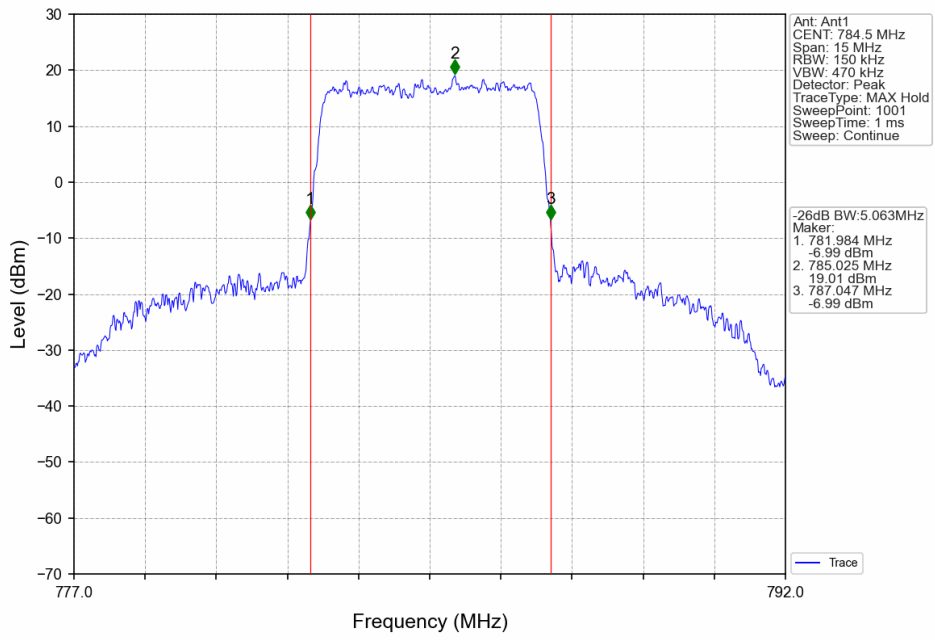
### 4.2.1 Test Result

Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	779.5	25	0	5.032	/	Pass
		782	25	0	5.046	/	Pass
		784.5	25	0	5.063	/	Pass
	16QAM	779.5	25	0	5.046	/	Pass
		782	25	0	5.041	/	Pass
		784.5	25	0	5.047	/	Pass
10	QPSK	782	50	0	10.124	/	Pass
	16QAM	782	50	0	10.096	/	Pass

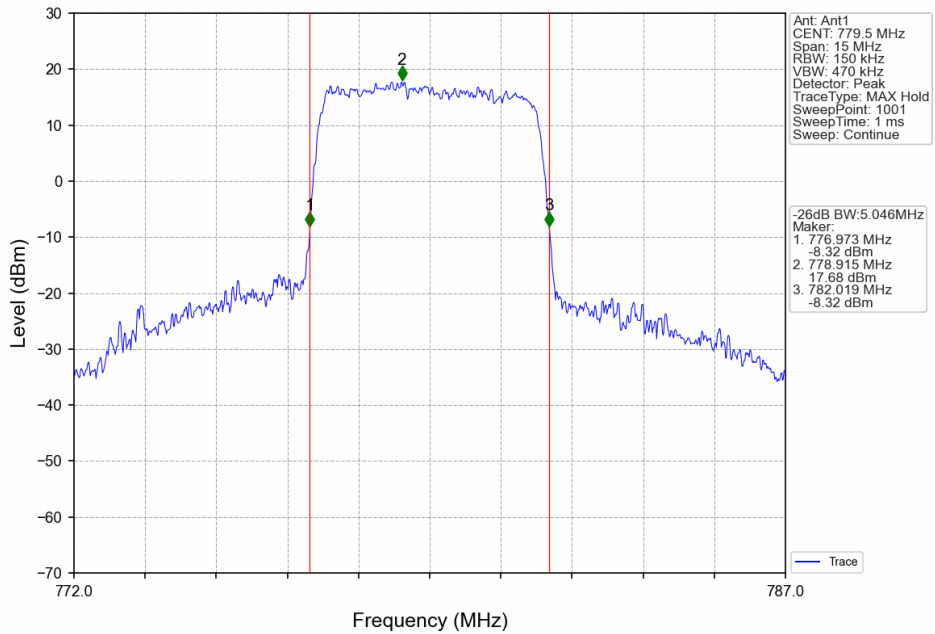
### 4.2.2 Test Graph



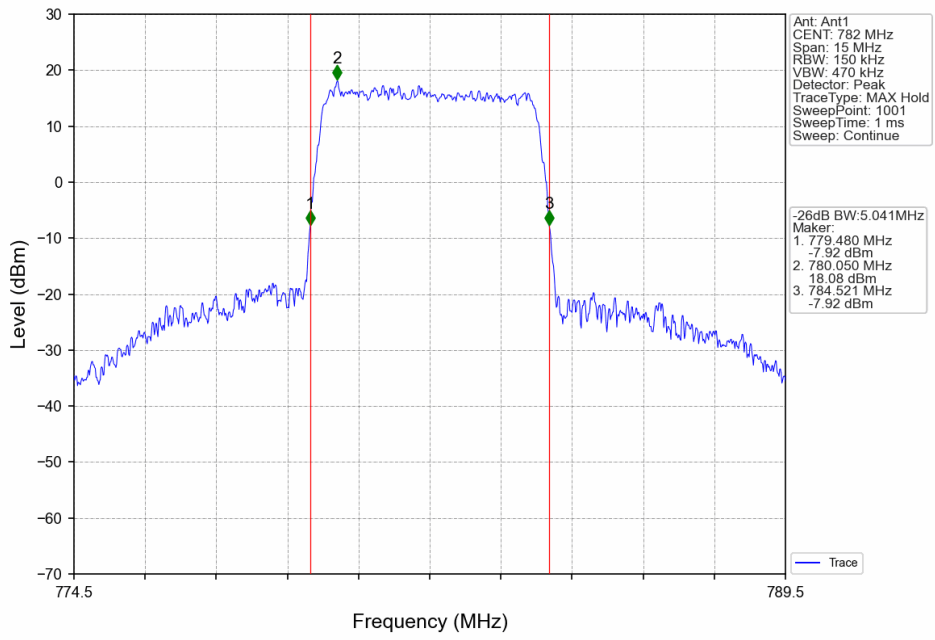
Band13\_5MHz\_QPSK\_HCH\_784.5MHz\_RB\_25\_0\_NTNV



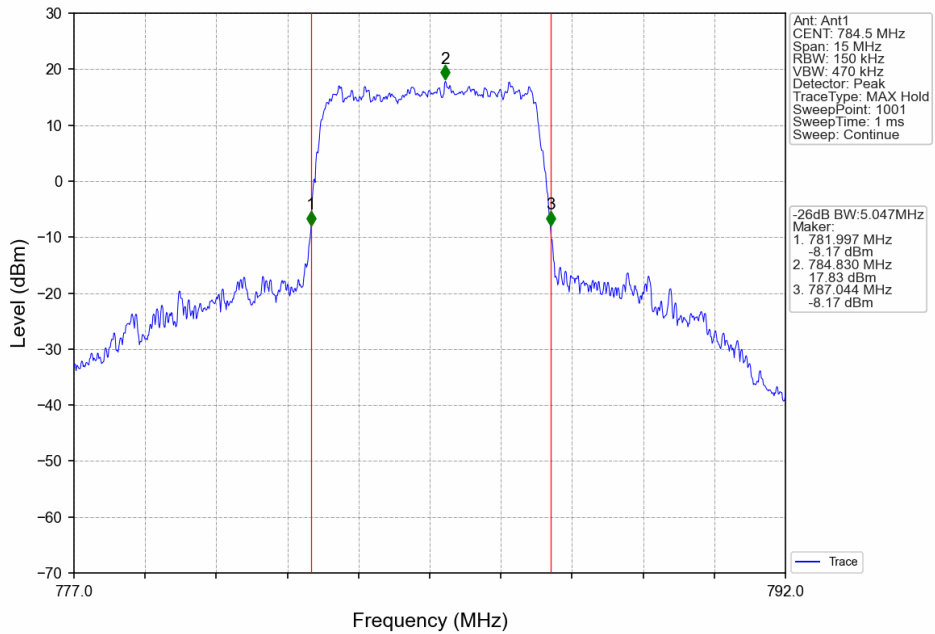
Band13\_5MHz\_16QAM\_LCH\_779.5MHz\_RB\_25\_0\_NTNV



Band13\_5MHz\_16QAM\_MCH\_782MHz\_RB\_25\_0\_NTNV

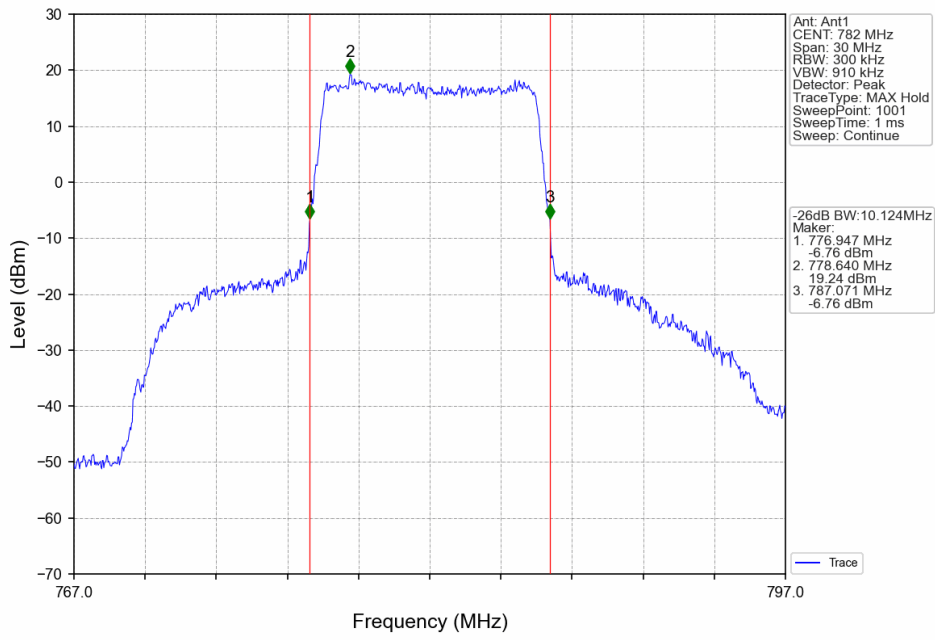


Band13\_5MHz\_16QAM\_HCH\_784.5MHz\_RB\_25\_0\_NTNV

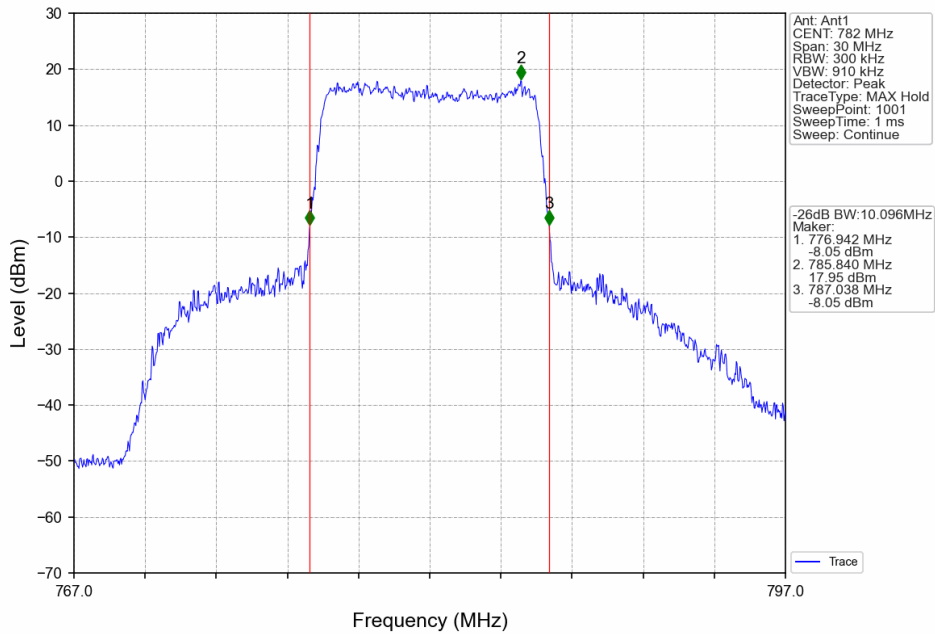




Band13\_10MHz\_QPSK\_MCH\_782MHz\_RB\_50\_0\_NTNV



Band13\_10MHz\_16QAM\_MCH\_782MHz\_RB\_50\_0\_NTNV



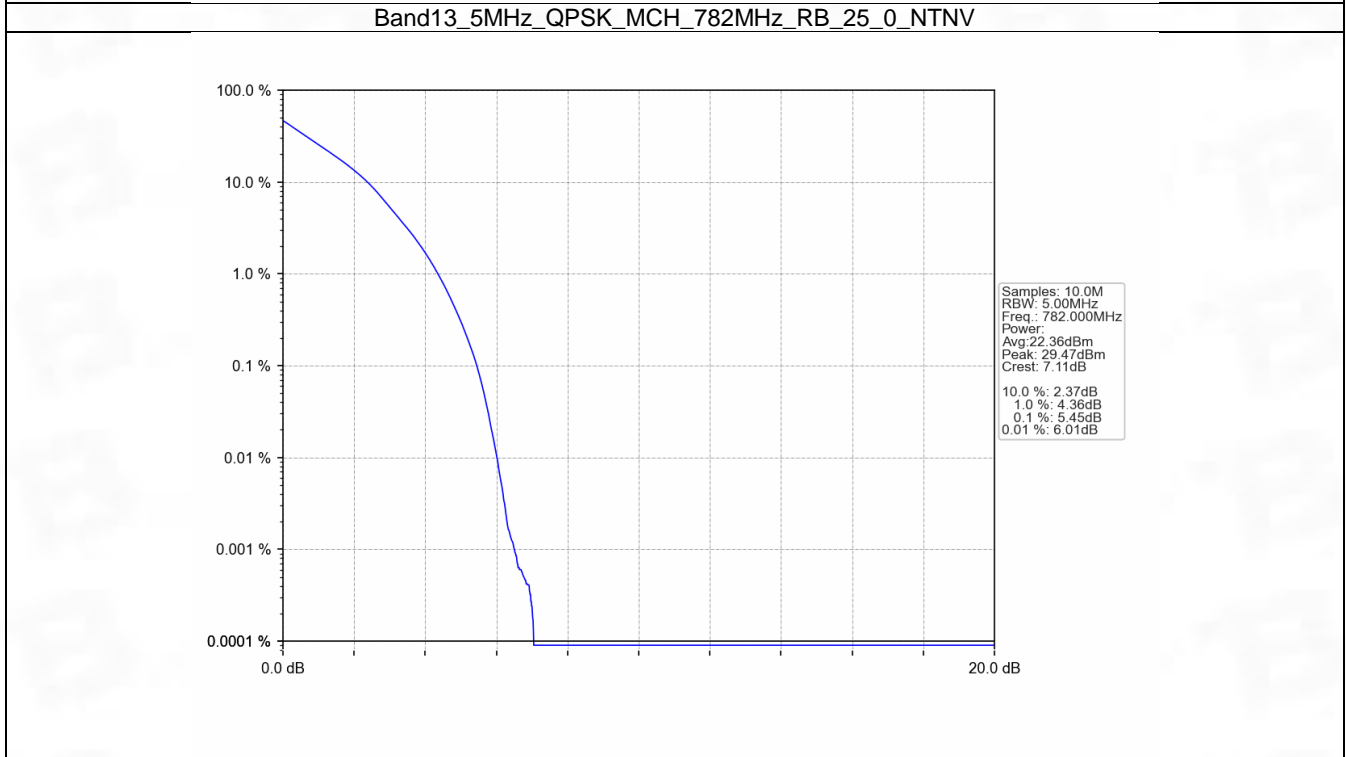
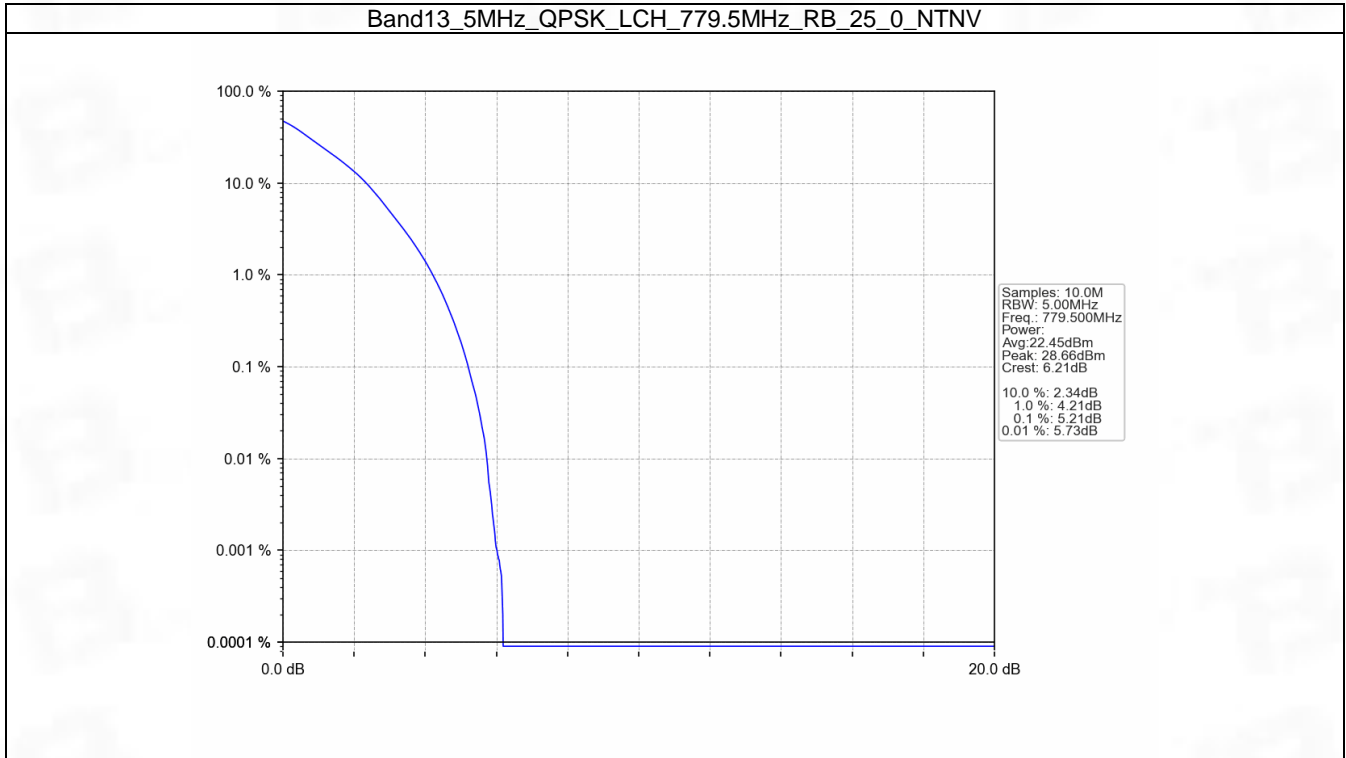
## 5. Peak-Average Ratio

### 5.1 B13\_5MHz

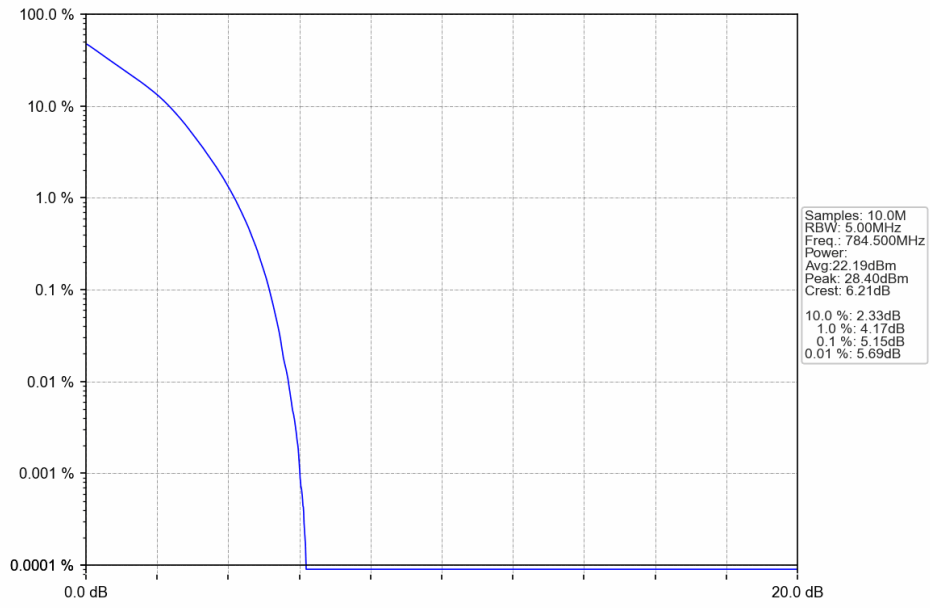
#### 5.1.1 Test Result

Band: 13 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	25	0	5.21	<=13	Pass
	782	25	0	5.45	<=13	Pass
	784.5	25	0	5.15	<=13	Pass
16QAM	779.5	25	0	5.98	<=13	Pass
	782	25	0	6.18	<=13	Pass
	784.5	25	0	5.86	<=13	Pass

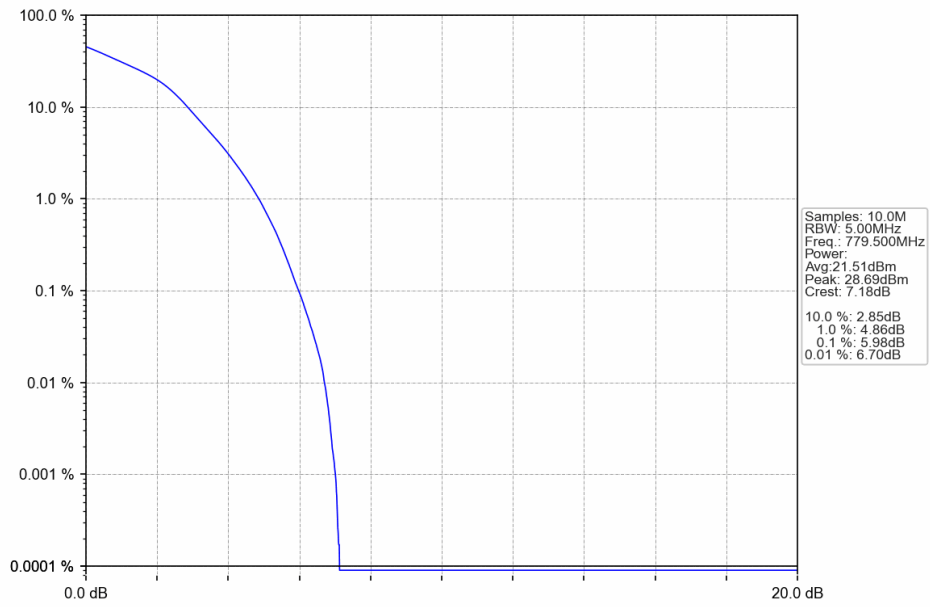
### 5.1.2 Test Graph



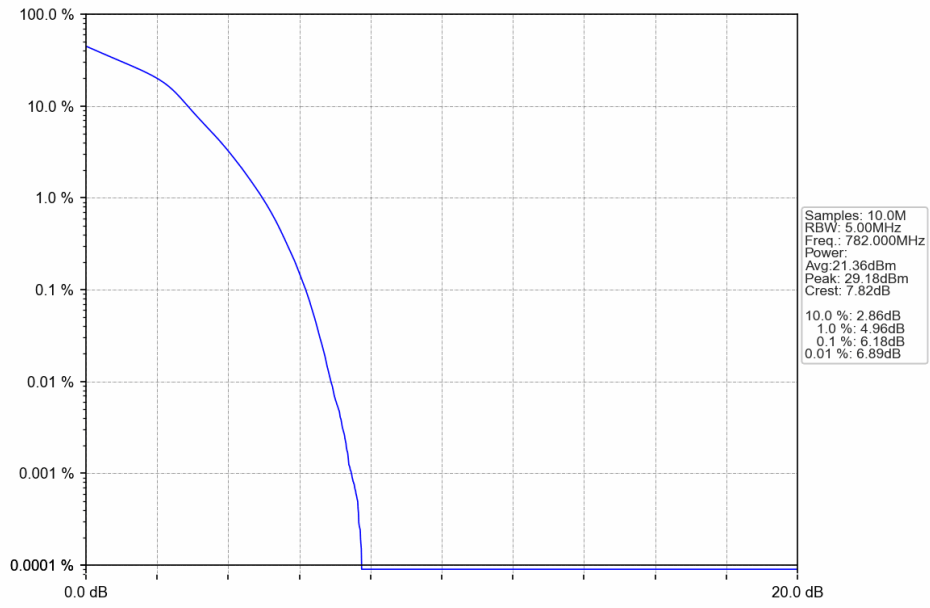
Band13\_5MHz\_QPSK\_HCH\_784.5MHz\_RB\_25\_0\_NTNV



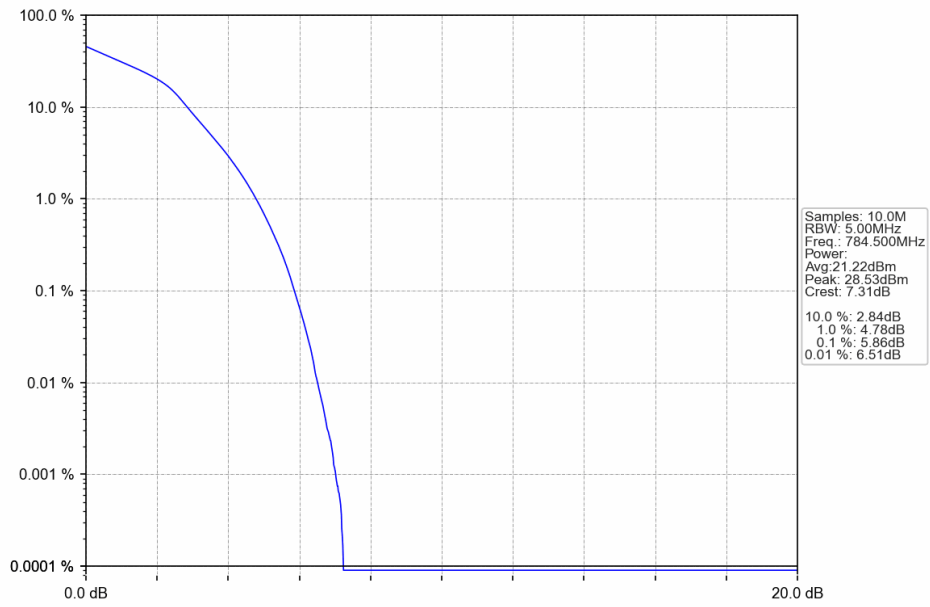
Band13\_5MHz\_16QAM\_LCH\_779.5MHz\_RB\_25\_0\_NTNV



Band13\_5MHz\_16QAM\_MCH\_782MHz\_RB\_25\_0\_NTNV



Band13\_5MHz\_16QAM\_HCH\_784.5MHz\_RB\_25\_0\_NTNV

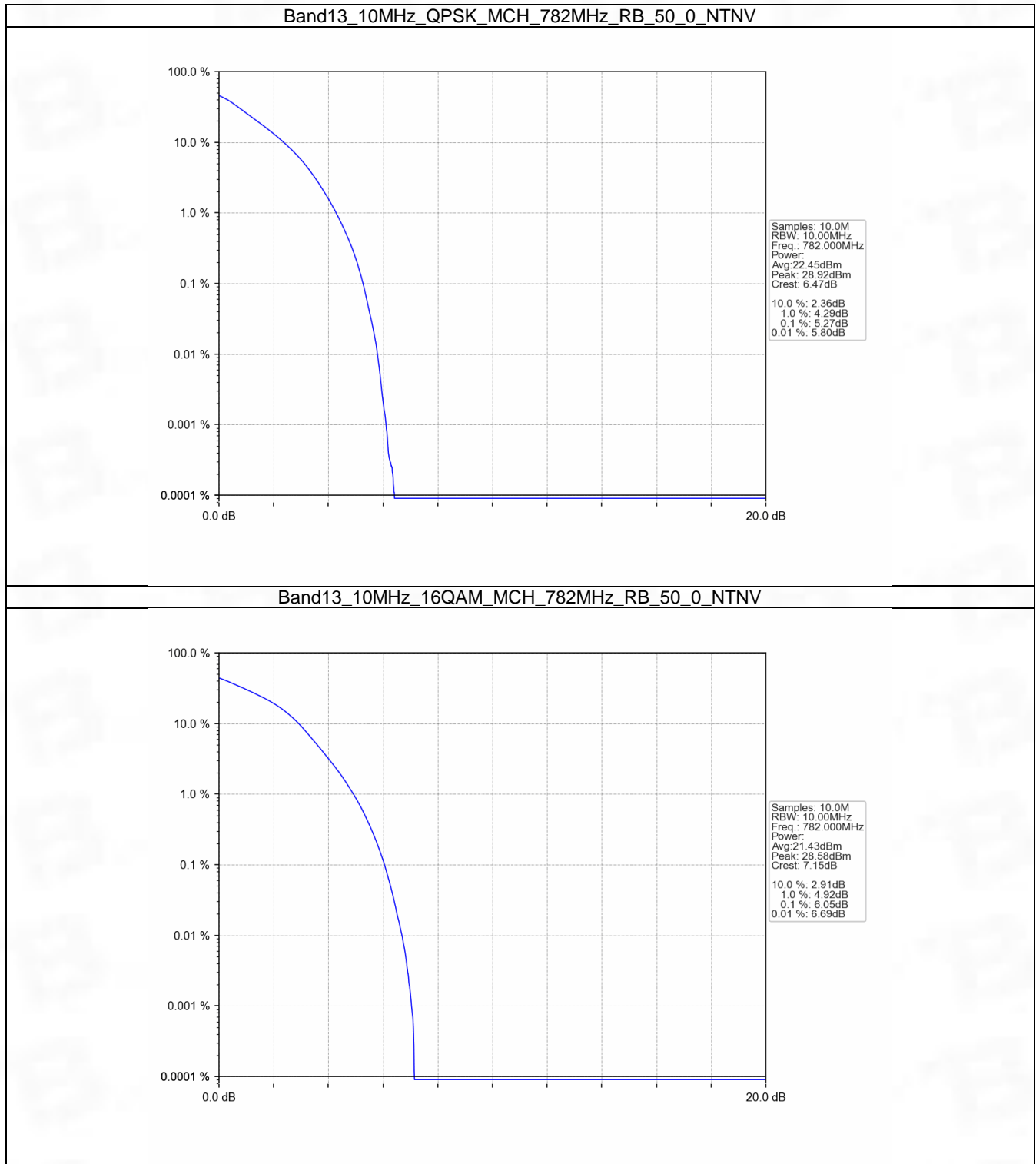


## 5.2 B13\_10MHz

### 5.2.1 Test Result

Band: 13 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	782	50	0	5.27	<=13	Pass
16QAM	782	50	0	6.05	<=13	Pass

## 5.2.2 Test Graph



## 6. Spurious Emission

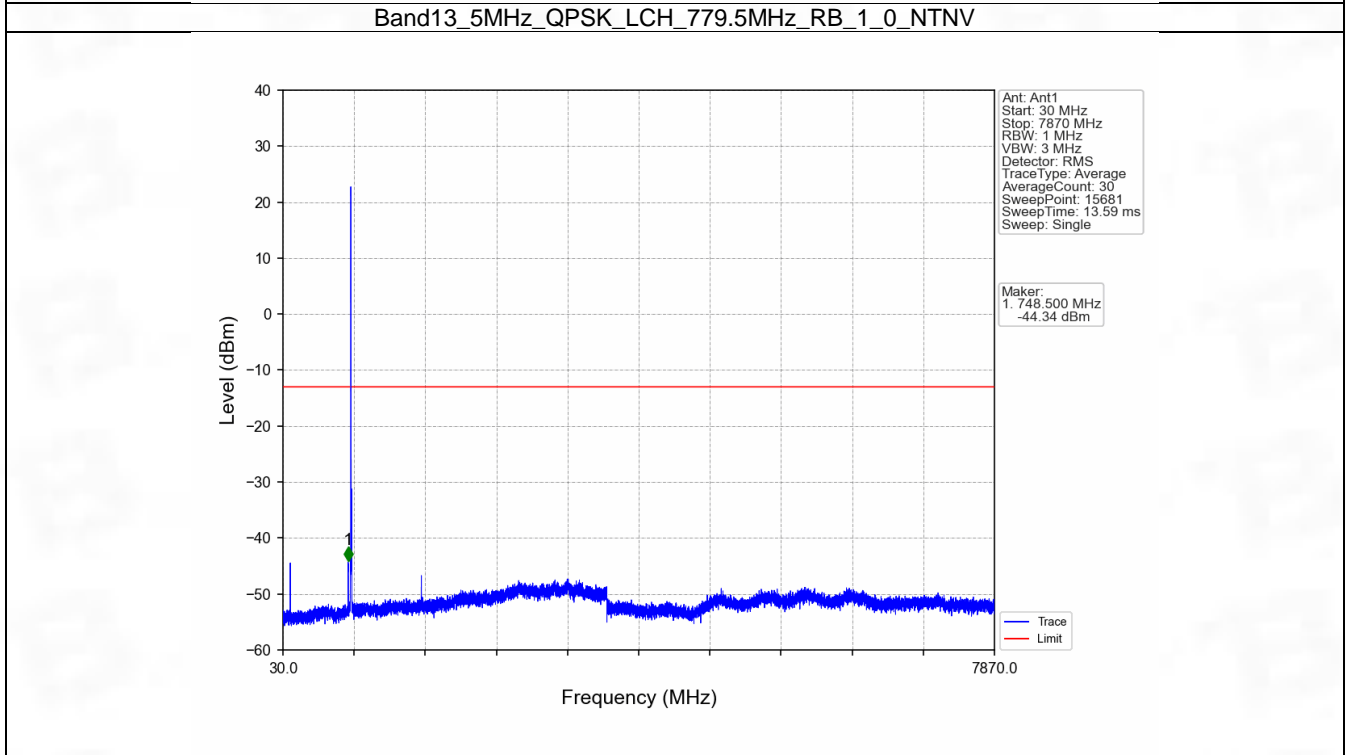
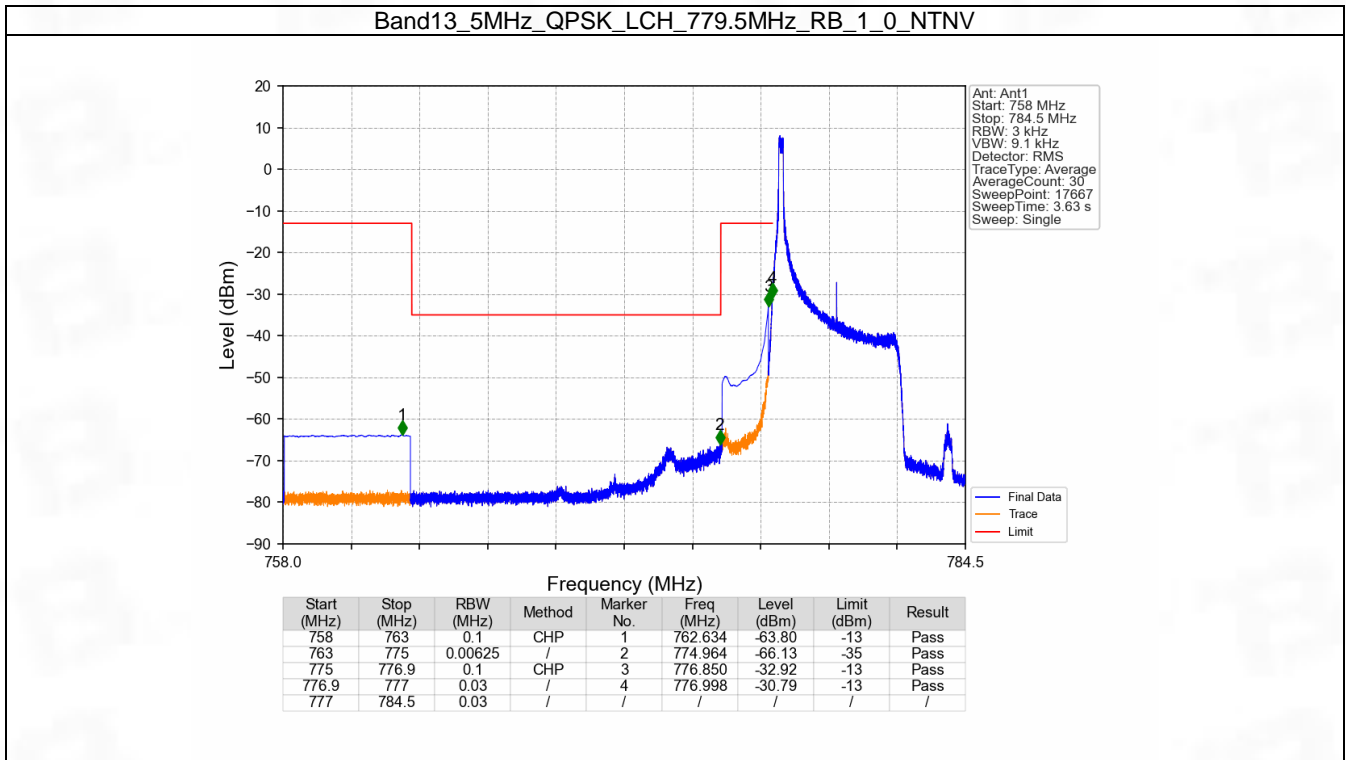
### 6.1 B13\_5MHz

#### 6.1.1 Test Result

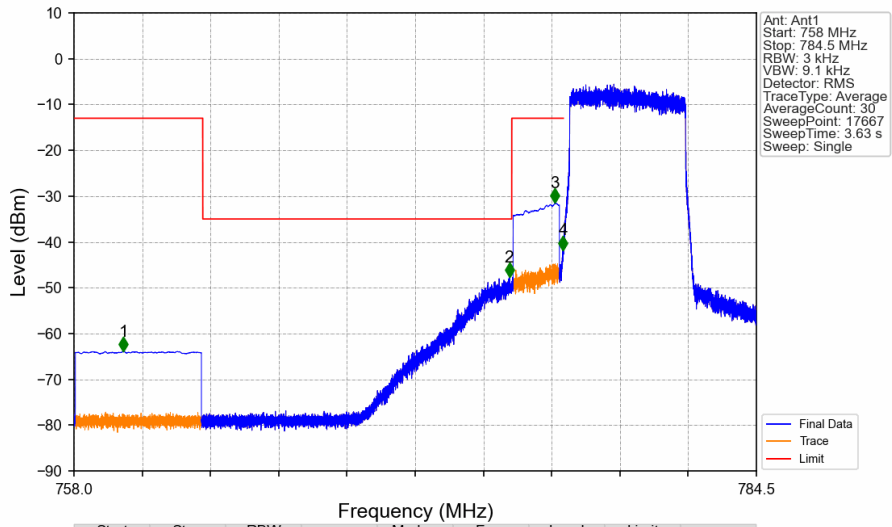
Band: 13 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	784.5	1	0	Refer To Test Graph		Pass
		1	24	Refer To Test Graph		Pass
		25	0	Refer To Test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



### 6.1.2 Test Graph

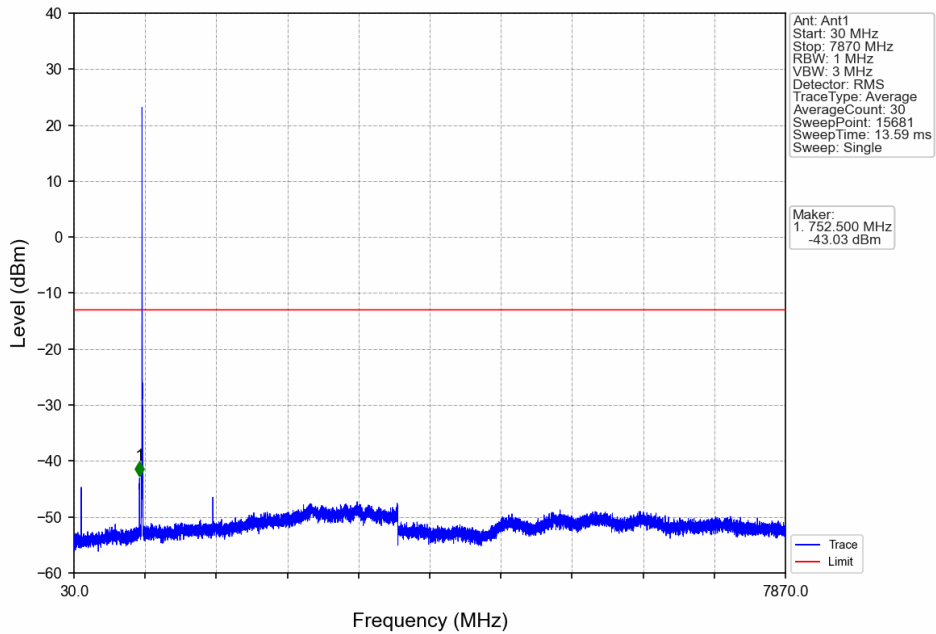


Band13\_5MHz\_QPSK\_LCH\_779.5MHz\_RB\_25\_0\_NTNV

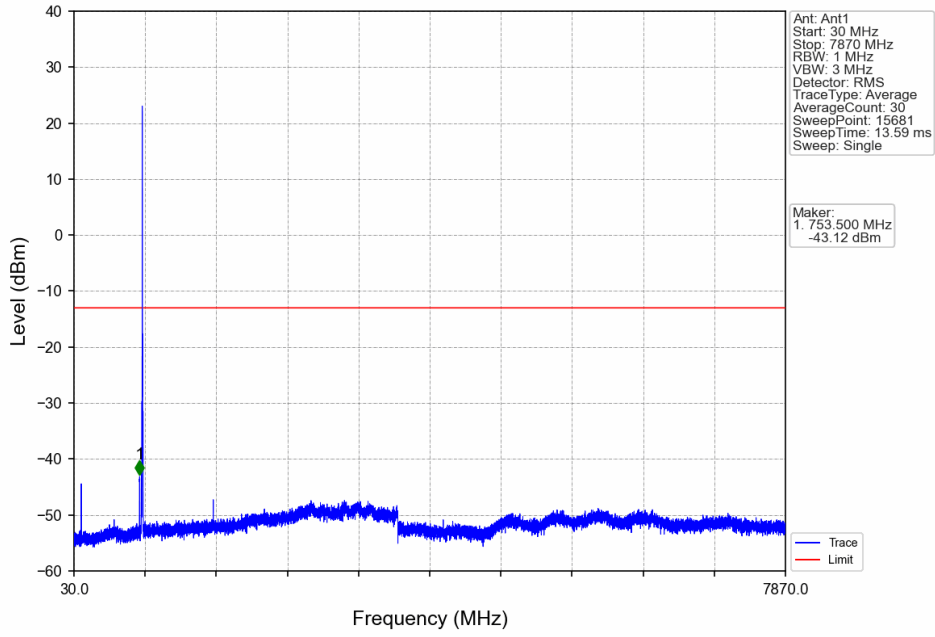


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	759.916	-63.91	-13	Pass
763	775	0.00625	/	2	774.904	-47.62	-35	Pass
775	776.9	0.1	CHP	3	776.671	-31.50	-13	Pass
776.9	777	0.03	/	4	776.992	-41.76	-13	Pass
777	784.5	0.03	/	/	/	/	/	/

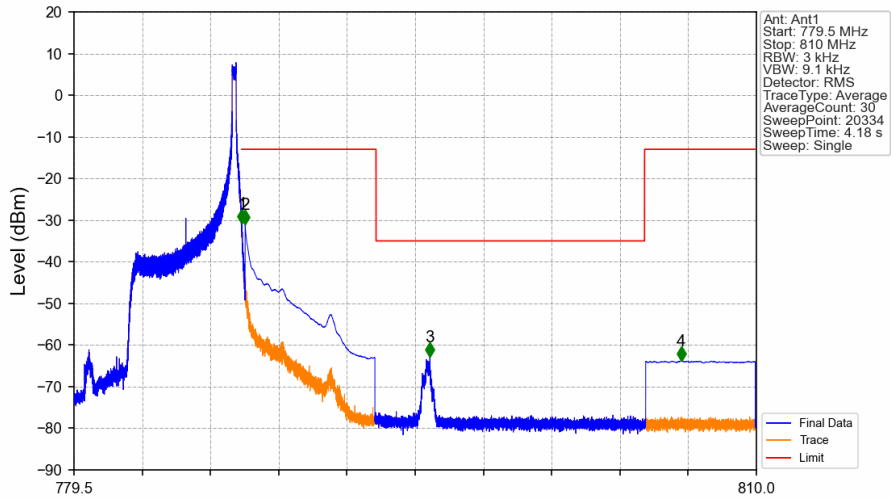
Band13\_5MHz\_QPSK\_MCH\_782MHz\_RB\_1\_0\_NTNV



Band13\_5MHz\_QPSK\_HCH\_784.5MHz\_RB\_1\_0\_NTNV

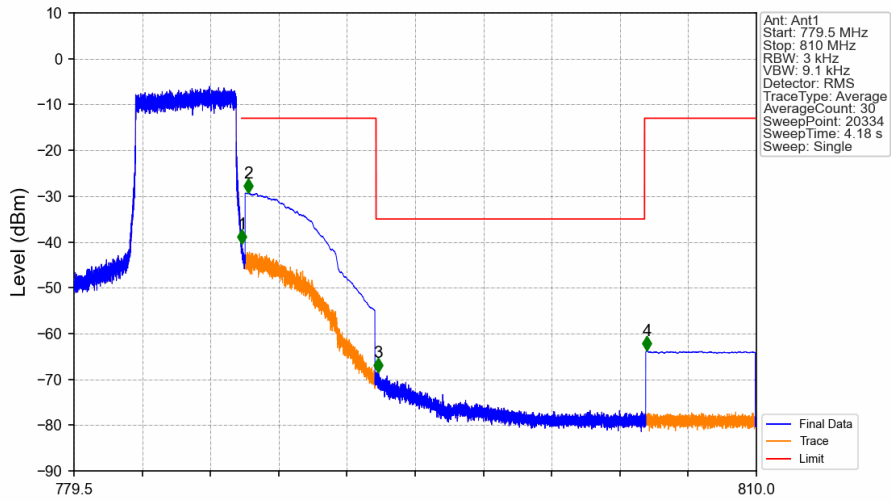


Band13\_5MHz\_QPSK\_HCH\_784.5MHz\_RB\_1\_24\_NTNV



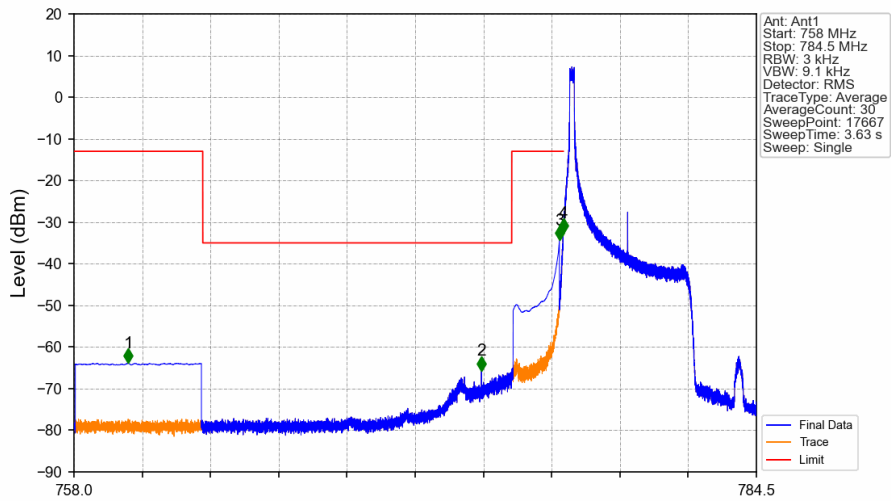
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	/	1	787.011	-30.84	-13	/
787	787.1	0.03	/	2	787.150	-31.06	-13	Pass
787.1	793	0.1	CHP	3	795.409	-62.79	-35	Pass
793	805	0.00625	/	4	806.634	-63.78	-13	Pass
805	810	0.1	CHP					

Band13\_5MHz\_QPSK\_HCH\_784.5MHz\_RB\_25\_0\_NTNV



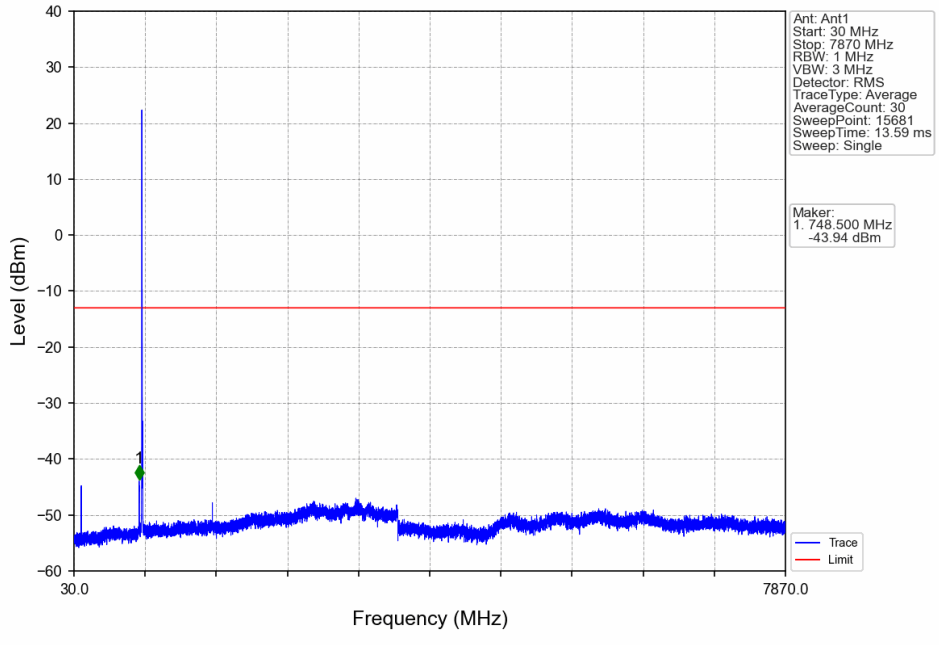
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.014	-40.38	-13	Pass
787.1	793	0.1	CHP	2	787.297	-29.34	-13	Pass
793	805	0.00625	/	3	793.102	-68.47	-35	Pass
805	810	0.1	CHP	4	805.104	-63.77	-13	Pass

Band13\_5MHz\_16QAM\_LCH\_779.5MHz\_RB\_1\_0\_NTNV

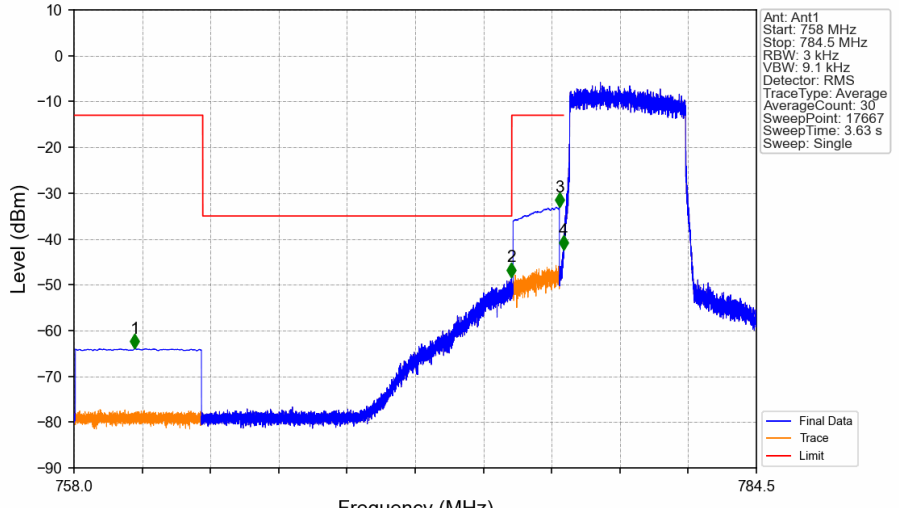


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	760.112	-63.85	-13	Pass
763	775	0.00625	/	2	773.823	-65.66	-35	Pass
775	776.9	0.1	CHP	3	776.850	-34.40	-13	Pass
776.9	777	0.03	/	4	777.000	-32.60	-13	Pass
777	784.5	0.03	/	/	/	/	/	/

Band13\_5MHz\_16QAM\_LCH\_779.5MHz\_RB\_1\_0\_NTNV

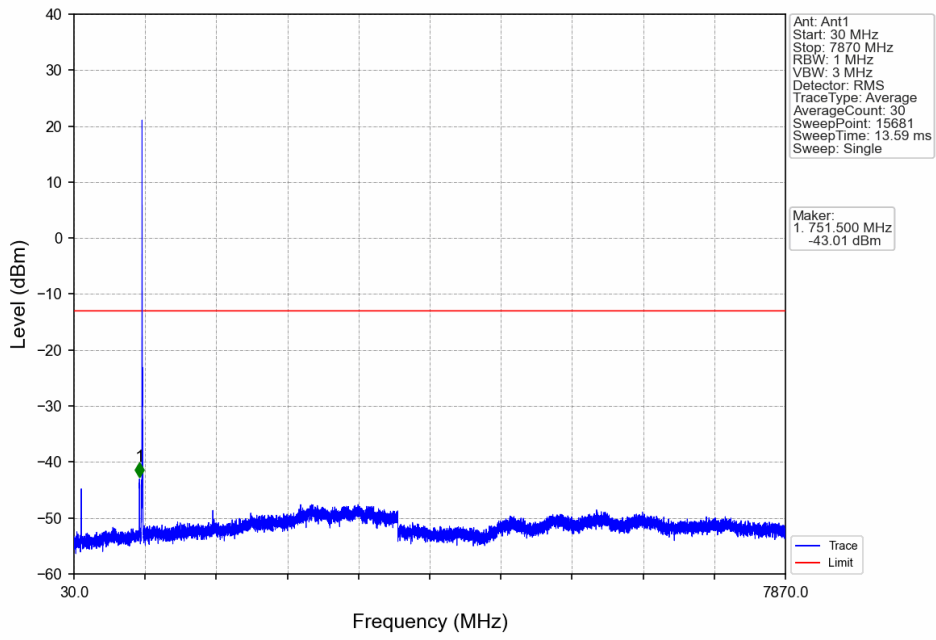


Band13\_5MHz\_16QAM\_LCH\_779.5MHz\_RB\_25\_0\_NTNV

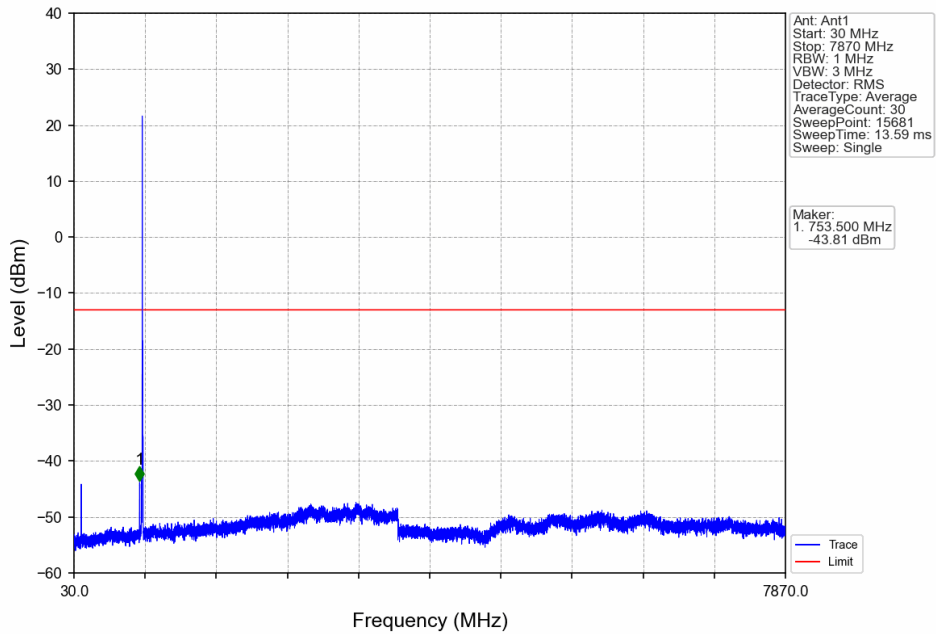


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	760.363	-63.95	-13	Pass
763	775	0.00625	/	2	774.993	-48.31	-35	Pass
775	776.9	0.1	CHP	3	776.848	-33.01	-13	Pass
776.9	777	0.03	/	4	777.000	-42.41	-13	Pass
777	784.5	0.03	/	/	/	/	/	/

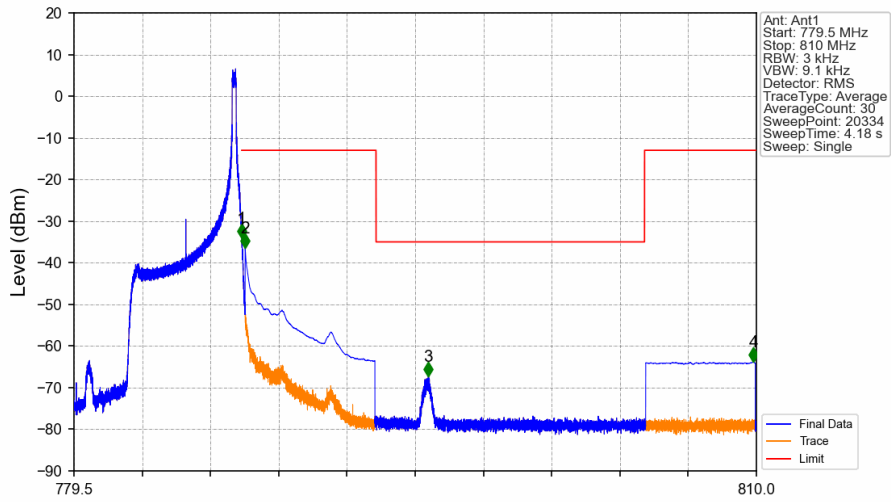
Band13\_5MHz\_16QAM\_MCH\_782MHz\_RB\_1\_0\_NTNV



Band13\_5MHz\_16QAM\_HCH\_784.5MHz\_RB\_1\_0\_NTNV

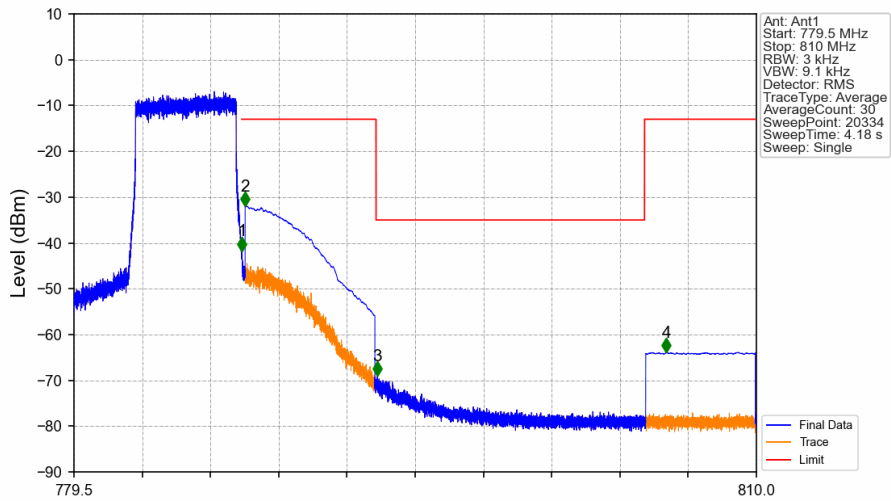


Band13\_5MHz\_16QAM\_HCH\_784.5MHz\_RB\_1\_24\_NTNV



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	-34.17	-13	Pass
787.1	793	0.1	CHP	2	787.150	-36.42	-13	Pass
793	805	0.00625	/	3	795.339	-67.27	-35	Pass
805	810	0.1	CHP	4	809.859	-63.85	-13	Pass

Band13\_5MHz\_16QAM\_HCH\_784.5MHz\_RB\_25\_0\_NTNV



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	787.003	-41.79	-13	Pass
787.1	793	0.1	CHP	2	787.150	-31.99	-13	Pass
793	805	0.00625	/	3	793.062	-69.07	-35	Pass
805	810	0.1	CHP	4	805.977	-63.91	-13	Pass

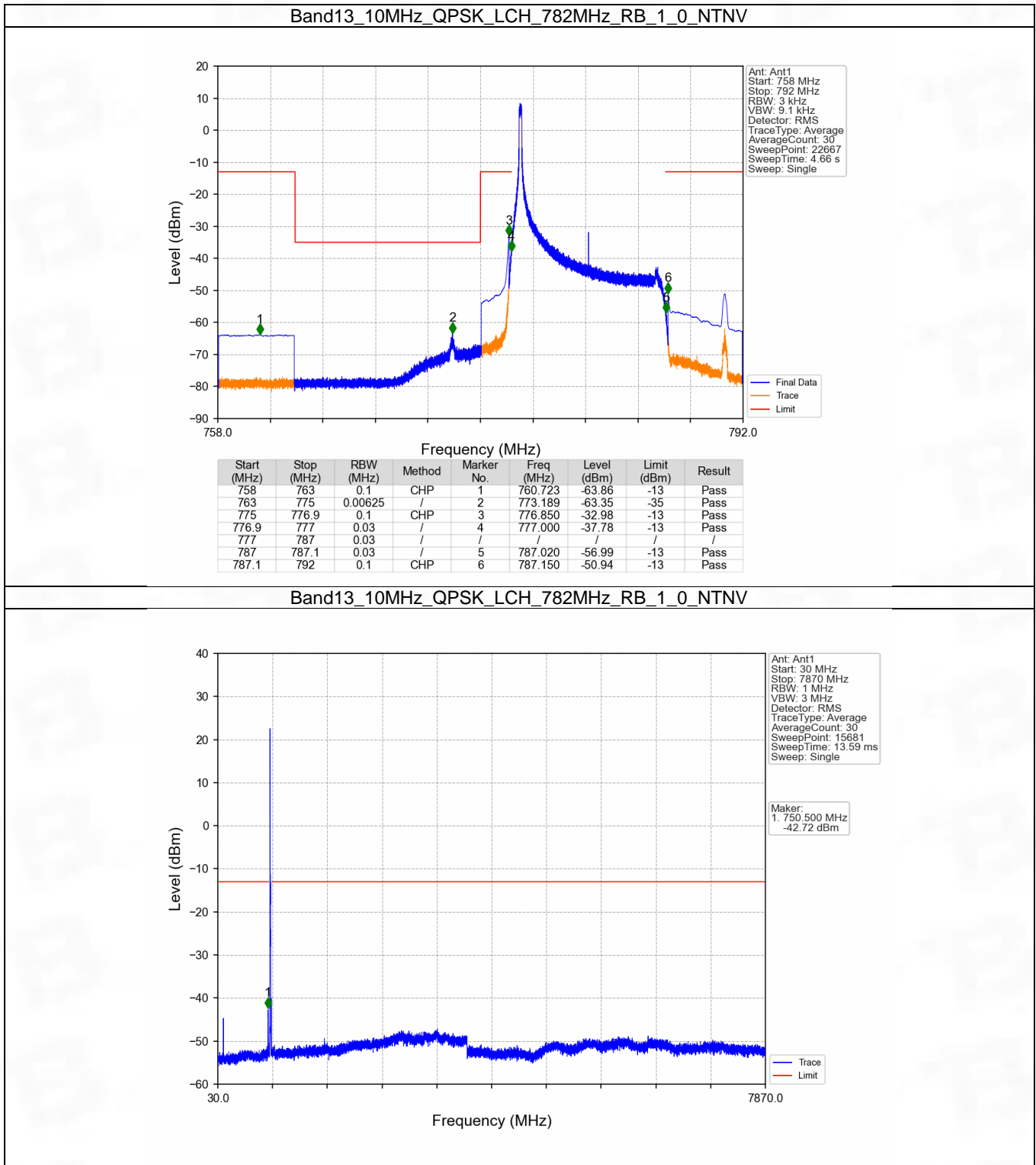
## 6.2 B13\_10MHz

### 6.2.1 Test Result

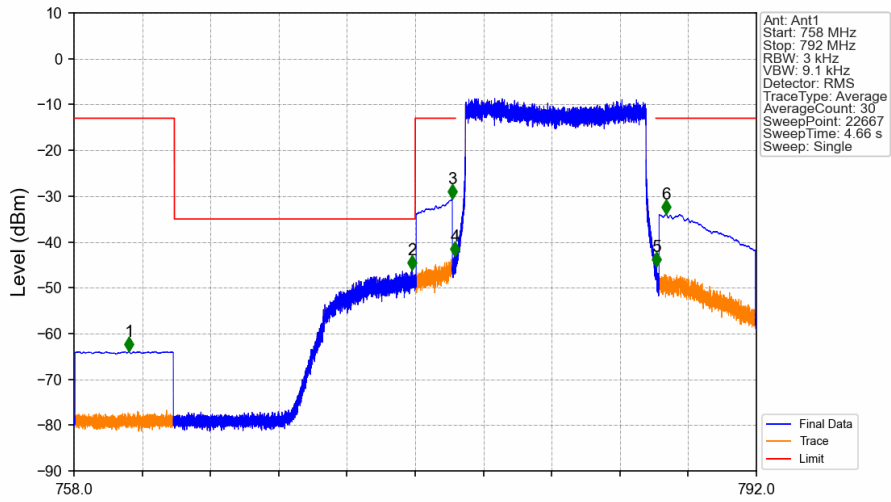
Band: 13 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	782	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	782	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph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



### 6.2.2 Test Graph

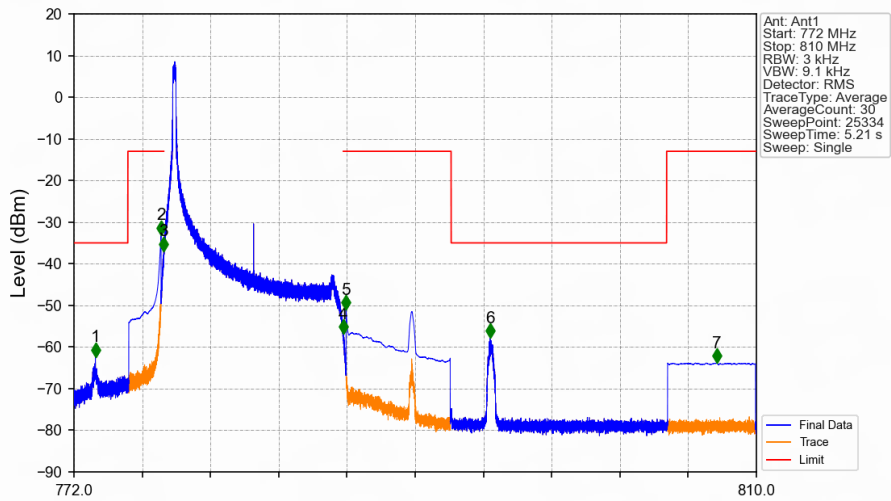


Band13\_10MHz\_QPSK\_LCH\_782MHz\_RB\_50\_0\_NTNV



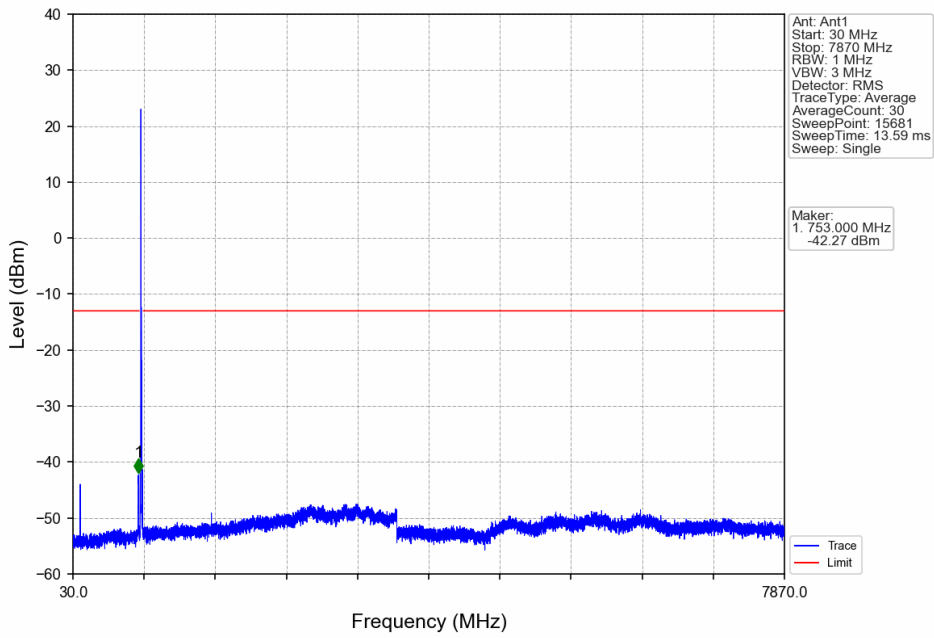
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	760.739	-63.94	-13	Pass
763	775	0.00625	/	2	774.839	-46.10	-35	Pass
775	776.9	0.1	CHP	3	776.830	-30.60	-13	Pass
776.9	777	0.03	/	4	776.985	-43.16	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.029	-45.36	-13	Pass
787.1	792	0.1	CHP	6	787.495	-33.96	-13	Pass

Band13\_10MHz\_QPSK\_MCH\_782MHz\_RB\_1\_0\_NTNV

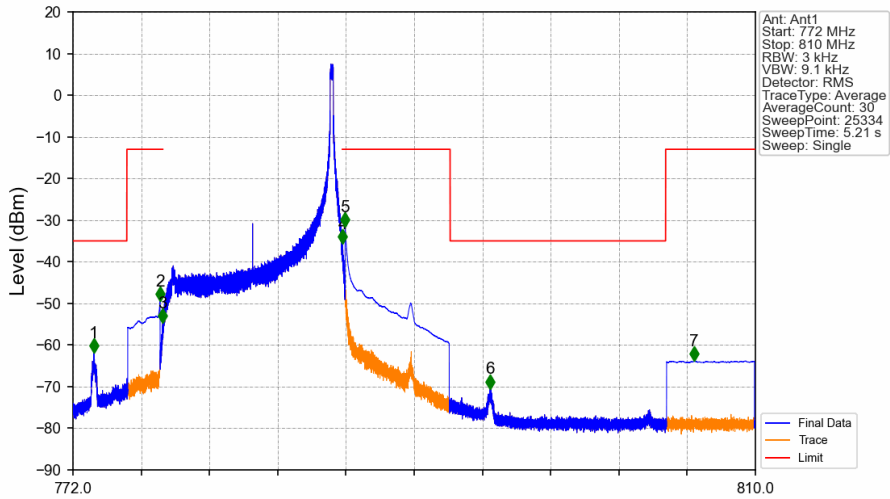


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	773.191	-62.35	-35	Pass
775	776.9	0.1	CHP	2	776.850	-33.07	-13	Pass
776.9	777	0.03	/	3	777.000	-36.97	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.000	-56.84	-13	Pass
787.1	793	0.1	CHP	5	787.150	-51.06	-13	Pass
793	805	0.00625	/	6	795.165	-57.78	-35	Pass
805	810	0.1	CHP	7	807.784	-63.83	-13	Pass

Band13\_10MHz\_QPSK\_MCH\_782MHz\_RB\_1\_0\_NTNV

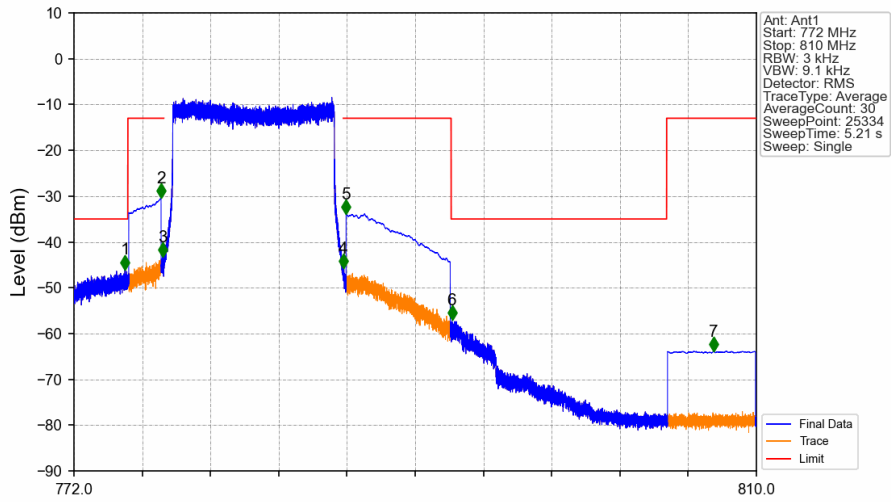


Band13\_10MHz\_QPSK\_MCH\_782MHz\_RB\_1\_49\_NTNV



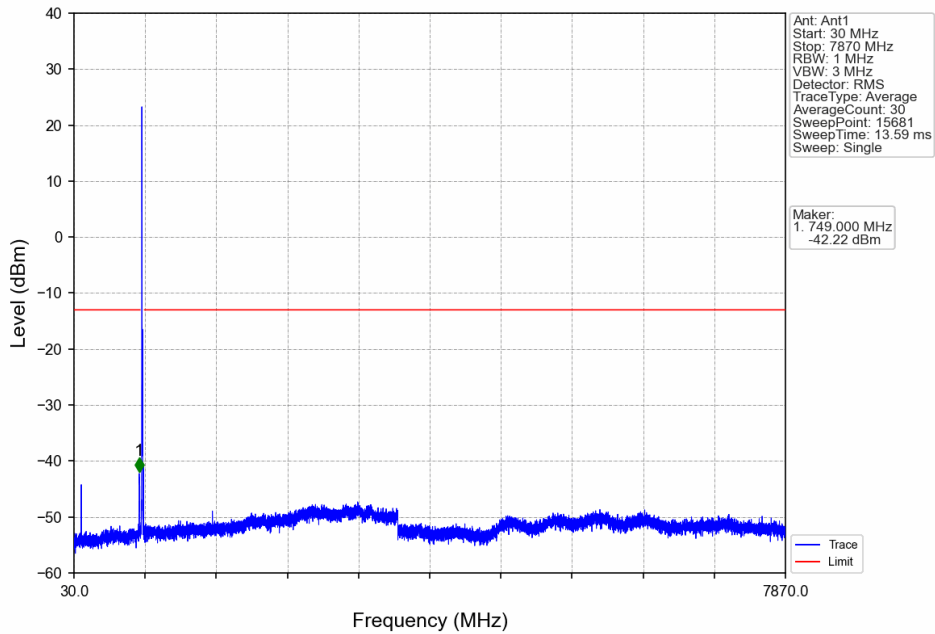
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	773.164	-61.83	-35	Pass
775	776.9	0.1	CHP	2	776.850	-49.45	-13	Pass
776.9	777	0.03	/	3	776.994	-54.68	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.012	-35.65	-13	Pass
787.1	793	0.1	CHP	5	787.150	-31.59	-13	Pass
793	805	0.00625	/	6	795.222	-70.53	-35	Pass
805	810	0.1	CHP	7	806.593	-63.79	-13	Pass

Band13\_10MHz\_QPSK\_MCH\_782MHz\_RB\_50\_0\_NTNV

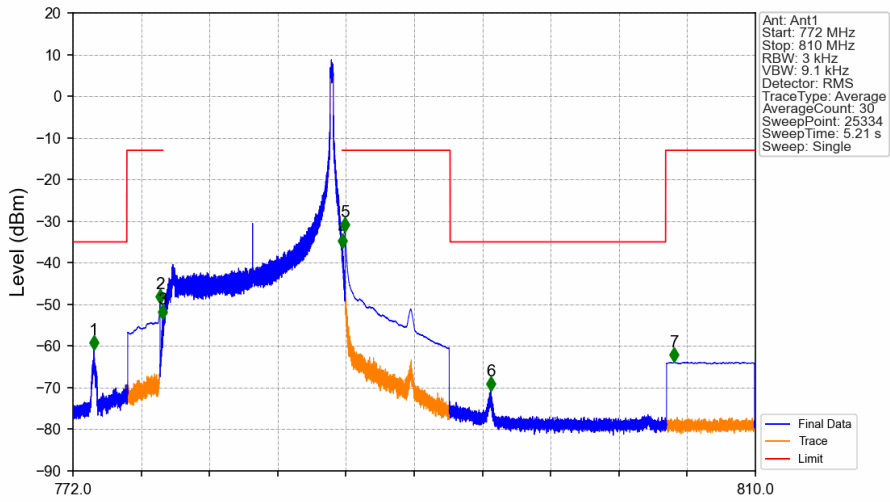


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.840	-45.99	-35	Pass
775	776.9	0.1	CHP	2	776.848	-30.40	-13	Pass
776.9	777	0.03	/	3	776.940	-43.24	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.000	-45.74	-13	Pass
787.1	793	0.1	CHP	5	787.150	-33.88	-13	Pass
793	805	0.00625	/	6	793.045	-56.98	-35	Pass
805	810	0.1	CHP	7	807.601	-63.86	-13	Pass

Band13\_10MHz\_QPSK\_HCH\_782MHz\_RB\_1\_0\_NTNV

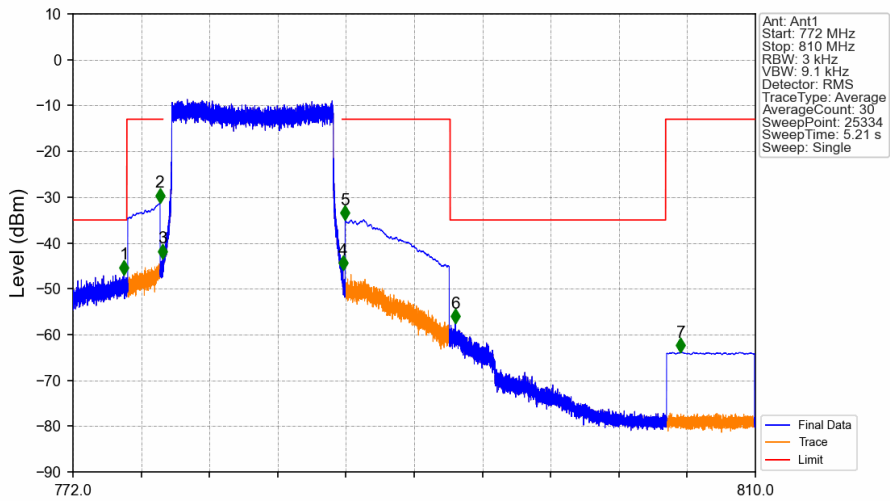


Band13\_10MHz\_QPSK\_HCH\_782MHz\_RB\_1\_49\_NTNV



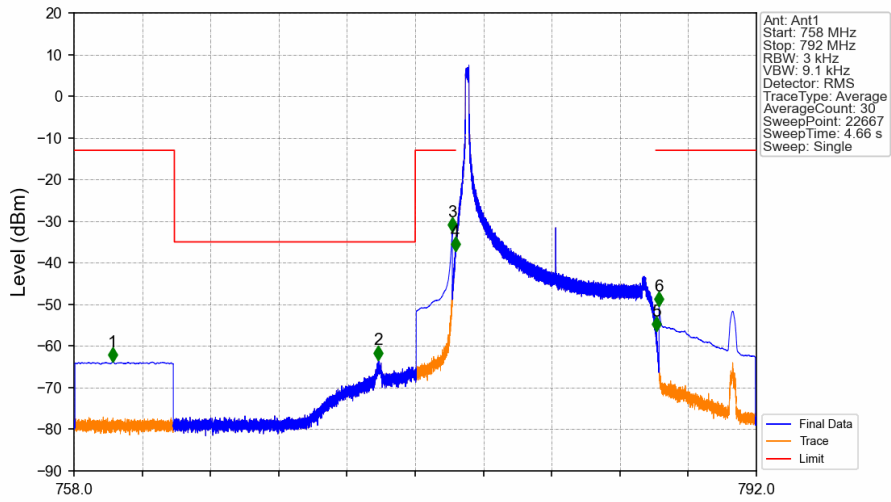
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	773.164	-60.89	-35	Pass
775	776.9	0.1	CHP	2	776.850	-49.93	-13	Pass
776.9	777	0.03	/	3	776.992	-53.61	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.014	-36.50	-13	Pass
787.1	793	0.1	CHP	5	787.150	-32.60	-13	Pass
793	805	0.00625	/	6	795.265	-70.75	-35	Pass
805	810	0.1	CHP	7	805.479	-63.83	-13	Pass

Band13\_10MHz\_QPSK\_HCH\_782MHz\_RB\_50\_0\_NTNV



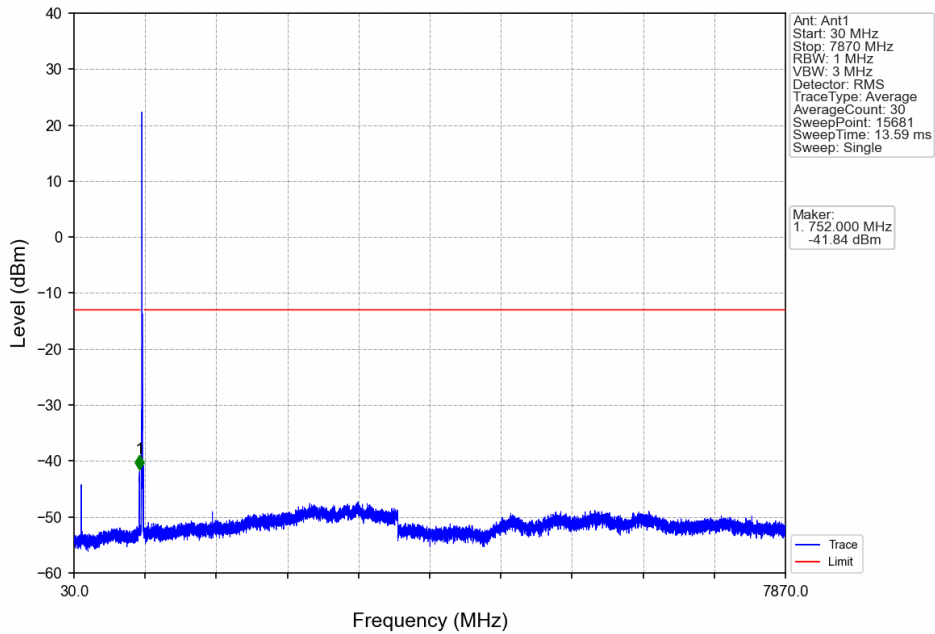
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.840	-46.90	-35	Pass
775	776.9	0.1	CHP	2	776.832	-31.21	-13	Pass
776.9	777	0.03	/	3	776.997	-43.36	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.032	-45.86	-13	Pass
787.1	793	0.1	CHP	5	787.153	-34.92	-13	Pass
793	805	0.00625	/	6	793.288	-57.49	-35	Pass
805	810	0.1	CHP	7	805.842	-63.88	-13	Pass

Band13\_10MHz\_16QAM\_LCH\_782MHz\_RB\_1\_0\_NTNV

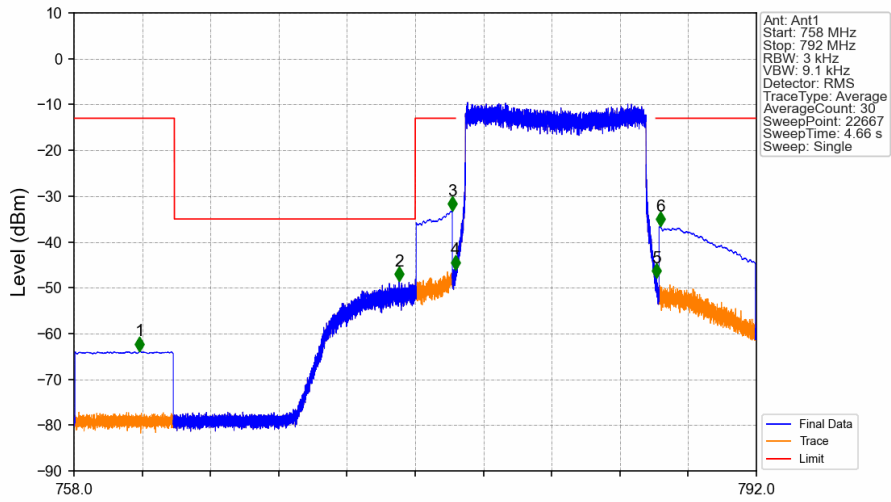


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	759.928	-63.78	-13	Pass
763	775	0.00625	/	2	773.165	-63.35	-35	Pass
775	776.9	0.1	CHP	3	776.850	-32.61	-13	Pass
776.9	777	0.03	/	4	776.991	-37.26	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.009	-56.53	-13	Pass
787.1	792	0.1	CHP	6	787.150	-50.43	-13	Pass

Band13\_10MHz\_16QAM\_LCH\_782MHz\_RB\_1\_0\_NTNV

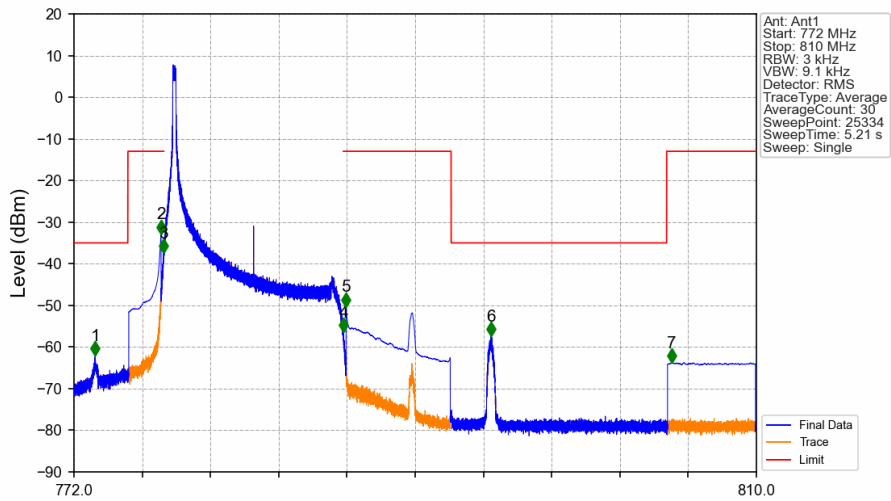


Band13\_10MHz\_16QAM LCH\_782MHz\_RB\_50\_0\_NTNV



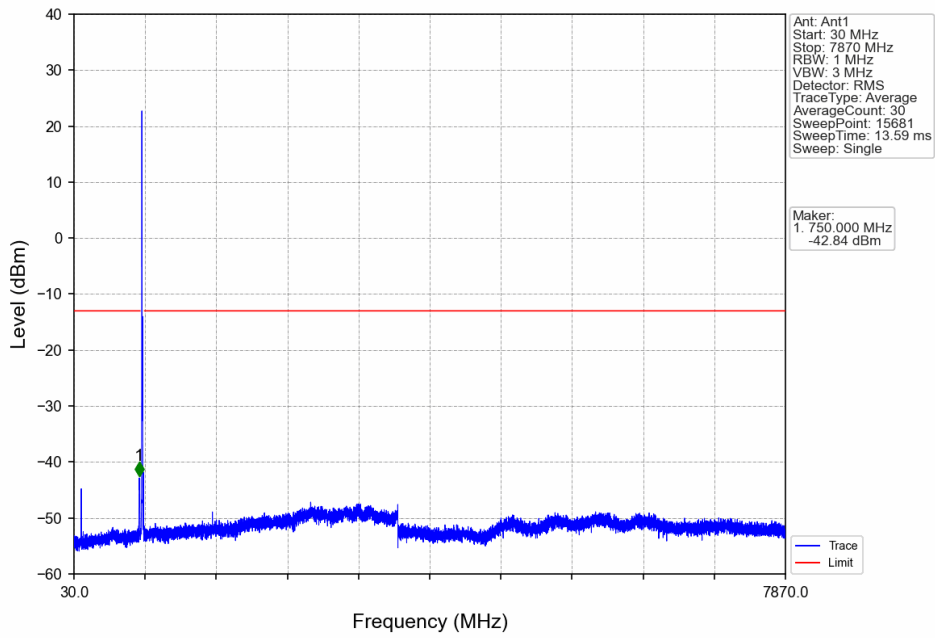
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.270	-63.83	-13	Pass
763	775	0.00625	/	2	774.199	-48.63	-35	Pass
775	776.9	0.1	CHP	3	776.830	-33.27	-13	Pass
776.9	777	0.03	/	4	776.998	-45.99	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.003	-47.81	-13	Pass
787.1	792	0.1	CHP	6	787.209	-36.63	-13	Pass

Band13\_10MHz\_16QAM MCH\_782MHz\_RB\_1\_0\_NTNV

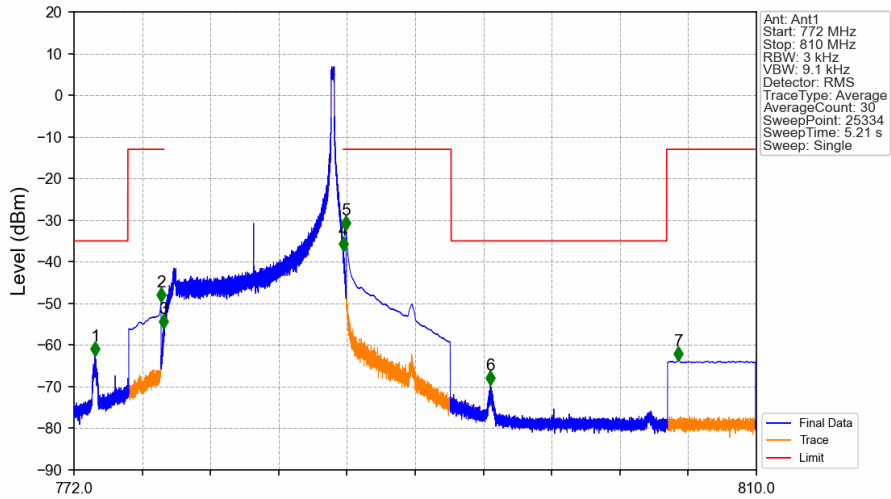


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	773.181	-62.10	-35	Pass
775	776.9	0.1	CHP	2	776.850	-32.87	-13	Pass
776.9	777	0.03	/	3	776.988	-37.44	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.008	-56.39	-13	Pass
787.1	793	0.1	CHP	5	787.150	-50.34	-13	Pass
793	805	0.00625	/	6	795.219	-57.44	-35	Pass
805	810	0.1	CHP	7	805.294	-63.77	-13	Pass

Band13\_10MHz\_16QAM\_MCH\_782MHz\_RB\_1\_0\_NTNV



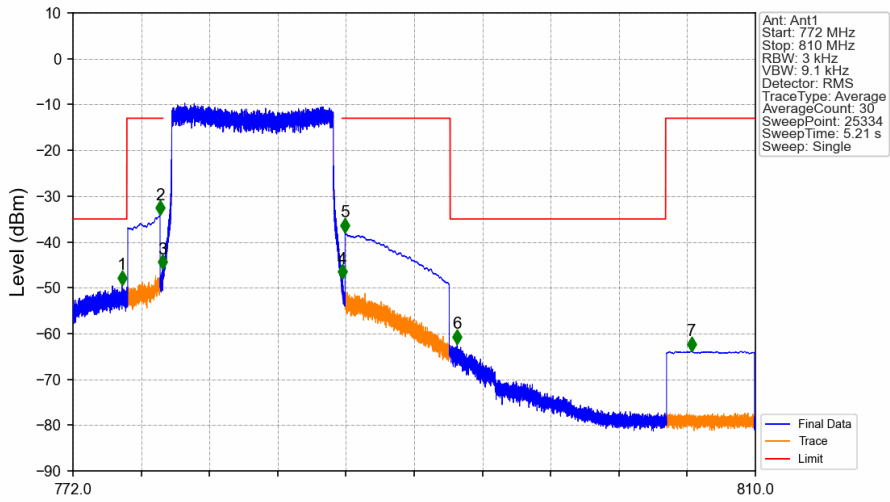
Band13\_10MHz\_16QAM\_MCH\_782MHz\_RB\_1\_49\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	773.182	-62.64	-35	Pass
775	776.9	0.1	CHP	2	776.850	-49.73	-13	Pass
776.9	777	0.03	/	3	776.994	-56.11	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.000	-37.34	-13	Pass
787.1	793	0.1	CHP	5	787.150	-32.35	-13	Pass
793	805	0.00625	/	6	795.187	-69.66	-35	Pass
805	810	0.1	CHP	7	805.659	-63.81	-13	Pass

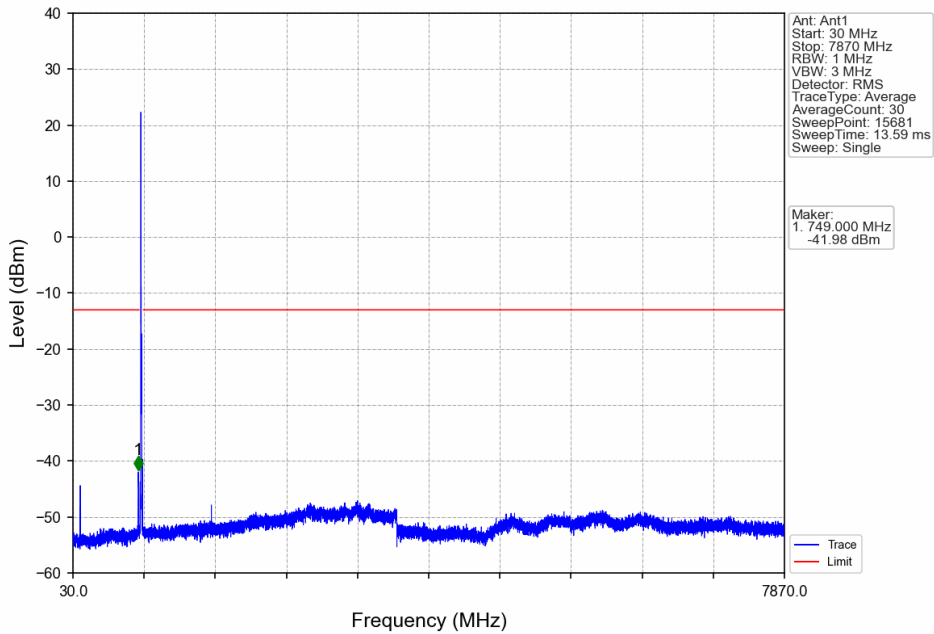


Band13\_10MHz\_16QAM\_MCH\_782MHz\_RB\_50\_0\_NTNV

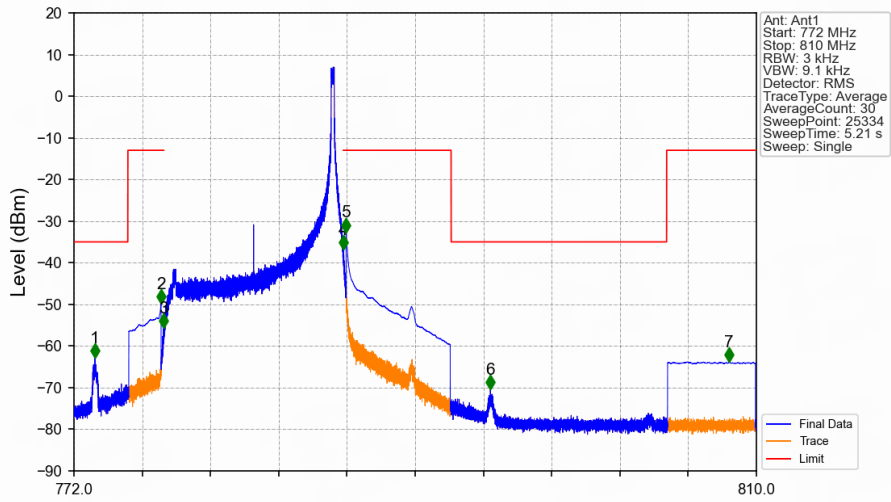


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.732	-49.36	-35	Pass
775	776.9	0.1	CHP	2	776.848	-34.12	-13	Pass
776.9	777	0.03	/	3	776.982	-45.89	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.005	-48.04	-13	Pass
787.1	793	0.1	CHP	5	787.150	-37.91	-13	Pass
793	805	0.00625	/	6	793.393	-62.25	-35	Pass
805	810	0.1	CHP	7	806.443	-63.83	-13	Pass

Band13\_10MHz\_16QAM\_HCH\_782MHz\_RB\_1\_0\_NTNV

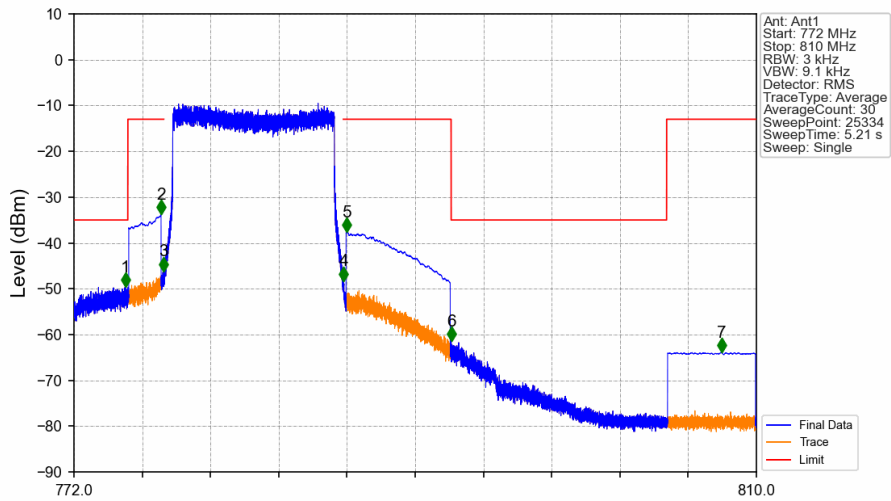


Band13\_10MHz\_16QAM\_HCH\_782MHz\_RB\_1\_49\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	773.164	-62.91	-35	Pass
775	776.9	0.1	CHP	2	776.850	-49.78	-13	Pass
776.9	777	0.03	/	3	776.979	-55.65	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.000	-36.83	-13	Pass
787.1	793	0.1	CHP	5	787.150	-32.68	-13	Pass
793	805	0.00625	/	6	795.187	-70.42	-35	Pass
805	810	0.1	CHP	7	808.485	-63.83	-13	Pass

Band13\_10MHz\_16QAM\_HCH\_782MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.871	-49.59	-35	Pass
775	776.9	0.1	CHP	2	776.848	-33.81	-13	Pass
776.9	777	0.03	/	3	776.971	-46.20	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.017	-48.31	-13	Pass
787.1	793	0.1	CHP	5	787.198	-37.63	-13	Pass
793	805	0.00625	/	6	793.003	-61.40	-35	Pass
805	810	0.1	CHP	7	808.071	-63.88	-13	Pass

## 7. Form731

### 7.1 Form731\_Power

#### 7.1.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
13	5	779.5	784.5	0.2051	0.0624	ppm	4M57G7D	27F	23.12
13	5	779.5	784.5	0.1710	0.0652	ppm	4M59W7D	27F	22.33
13	10	782	782	0.2042	0.0545	ppm	9M08G7D	27F	23.10
13	10	782	782	0.1897	0.0649	ppm	9M12W7D	27F	22.78

### 7.2 Form731\_ERP

#### 7.2.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
13	5	779.5	784.5	0.0793	0.0624	ppm	4M57G7D	27F	18.99
13	5	779.5	784.5	0.0661	0.0652	ppm	4M59W7D	27F	18.20
13	10	782	782	0.0789	0.0545	ppm	9M08G7D	27F	18.97
13	10	782	782	0.0733	0.0649	ppm	9M12W7D	27F	18.65