

# Appendix B.5

## LTE Band 13



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## 1. Effective (Isotropic) Radiated Power Output Data

### 1.1 Test Result

#### 1.1.1 B13\_5MHz\_ERP

Band: 13 / Bandwidth: 5MHz / NTN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	779.5	1	0	24	0.86	22.71	<=34.77	Pass		
			13	24.21	0.86	22.92	<=34.77	Pass		
			24	24.04	0.86	22.75	<=34.77	Pass		
		12	0	22.95	0.86	21.66	<=34.77	Pass		
			6	23.09	0.86	21.80	<=34.77	Pass		
			13	23.08	0.86	21.79	<=34.77	Pass		
		25	0	23.1	0.86	21.81	<=34.77	Pass		
		782	1	0	24.07	0.86	22.78	<=34.77	Pass	
				13	24.05	0.86	22.76	<=34.77	Pass	
	24			23.99	0.86	22.70	<=34.77	Pass		
	12		0	23	0.86	21.71	<=34.77	Pass		
			6	22.98	0.86	21.69	<=34.77	Pass		
			13	23.01	0.86	21.72	<=34.77	Pass		
	25		0	22.97	0.86	21.68	<=34.77	Pass		
	784.5		1	0	24	0.86	22.71	<=34.77	Pass	
				13	24.12	0.86	22.83	<=34.77	Pass	
		24		24.07	0.86	22.78	<=34.77	Pass		
		12	0	22.98	0.86	21.69	<=34.77	Pass		
			6	23.07	0.86	21.78	<=34.77	Pass		
			13	23.07	0.86	21.78	<=34.77	Pass		
		25	0	23.07	0.86	21.78	<=34.77	Pass		
		16QAM	779.5	1	0	23.03	0.86	21.74	<=34.77	Pass
					13	23.25	0.86	21.96	<=34.77	Pass
	24				23.15	0.86	21.86	<=34.77	Pass	
12	0			21.93	0.86	20.64	<=34.77	Pass		
	6			22.12	0.86	20.83	<=34.77	Pass		
	13			22.15	0.86	20.86	<=34.77	Pass		
25	0			22.09	0.86	20.80	<=34.77	Pass		
782	1			0	23.17	0.86	21.88	<=34.77	Pass	



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		13	13	23.15	0.86	21.86	<=34.77	Pass
			24	23.16	0.86	21.87	<=34.77	Pass
		12	0	22.09	0.86	20.80	<=34.77	Pass
			6	21.98	0.86	20.69	<=34.77	Pass
			13	22.02	0.86	20.73	<=34.77	Pass
		25	0	21.98	0.86	20.69	<=34.77	Pass
	784.5	1	0	23.19	0.86	21.90	<=34.77	Pass
			13	23.18	0.86	21.89	<=34.77	Pass
			24	23.34	0.86	22.05	<=34.77	Pass
		12	0	21.98	0.86	20.69	<=34.77	Pass
			6	22.1	0.86	20.81	<=34.77	Pass
			13	22.14	0.86	20.85	<=34.77	Pass
		25	0	22.11	0.86	20.82	<=34.77	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

### 1.1.2 B13\_10MHz\_ERP

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	23.88	0.86	22.59	<=34.77	Pass
			25	24.01	0.86	22.72	<=34.77	Pass
			49	24.04	0.86	22.75	<=34.77	Pass
		25	0	23.02	0.86	21.73	<=34.77	Pass
			13	22.99	0.86	21.70	<=34.77	Pass
			25	23.01	0.86	21.72	<=34.77	Pass
50	0	23.06	0.86	21.77	<=34.77	Pass		
16QAM	782	1	0	23.01	0.86	21.72	<=34.77	Pass
			25	23.14	0.86	21.85	<=34.77	Pass
			49	23.23	0.86	21.94	<=34.77	Pass
		25	0	22.01	0.86	20.72	<=34.77	Pass
			13	22.02	0.86	20.73	<=34.77	Pass
			25	22.02	0.86	20.73	<=34.77	Pass
50	0	22.03	0.86	20.74	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15



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2. Frequency Stability

2.1 Test Result

2.1.1 B13\_5MHz

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	2.189	0.0028	-2.5 to 2.5	Pass
					3.85	2.017	0.0026	-2.5 to 2.5	Pass
					4.43	3.333	0.0043	-2.5 to 2.5	Pass
				-30	3.85	1.316	0.0017	-2.5 to 2.5	Pass
					3.85	1.817	0.0023	-2.5 to 2.5	Pass
				-20	3.85	1.945	0.0025	-2.5 to 2.5	Pass
					3.85	1.101	0.0014	-2.5 to 2.5	Pass
				10	3.85	2.575	0.0033	-2.5 to 2.5	Pass
					3.85	1.688	0.0022	-2.5 to 2.5	Pass
				40	3.85	2.704	0.0035	-2.5 to 2.5	Pass
	3.85	0.286	0.0004		-2.5 to 2.5	Pass			
	782	25	0	20	3.27	0.029	0.0000	-2.5 to 2.5	Pass
					3.85	1.945	0.0025	-2.5 to 2.5	Pass
					4.43	-0.901	-0.0012	-2.5 to 2.5	Pass
				-30	3.85	2.174	0.0028	-2.5 to 2.5	Pass
					3.85	1.960	0.0025	-2.5 to 2.5	Pass
				-20	3.85	0.186	0.0002	-2.5 to 2.5	Pass
					3.85	2.046	0.0026	-2.5 to 2.5	Pass
				10	3.85	1.488	0.0019	-2.5 to 2.5	Pass
					3.85	1.917	0.0025	-2.5 to 2.5	Pass
				40	3.85	2.732	0.0035	-2.5 to 2.5	Pass
	3.85	1.373	0.0018		-2.5 to 2.5	Pass			
	784.5	25	0	20	3.27	-0.157	-0.0002	-2.5 to 2.5	Pass
					3.85	0.515	0.0007	-2.5 to 2.5	Pass
					4.43	0.029	0.0000	-2.5 to 2.5	Pass
				-30	3.85	0.386	0.0005	-2.5 to 2.5	Pass
					3.85	0.429	0.0005	-2.5 to 2.5	Pass
				-20	3.85	2.546	0.0032	-2.5 to 2.5	Pass
					3.85	2.046	0.0026	-2.5 to 2.5	Pass



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				10	3.85	-0.372	-0.0005	-2.5 to 2.5	Pass
				30	3.85	-0.300	-0.0004	-2.5 to 2.5	Pass
				40	3.85	-0.687	-0.0009	-2.5 to 2.5	Pass
				50	3.85	0.029	0.0000	-2.5 to 2.5	Pass
16QAM	779.5	25	0	20	3.27	1.874	0.0024	-2.5 to 2.5	Pass
					3.85	1.559	0.0020	-2.5 to 2.5	Pass
					4.43	0.558	0.0007	-2.5 to 2.5	Pass
				-30	3.85	1.345	0.0017	-2.5 to 2.5	Pass
				-20	3.85	2.189	0.0028	-2.5 to 2.5	Pass
				-10	3.85	1.202	0.0015	-2.5 to 2.5	Pass
				0	3.85	0.486	0.0006	-2.5 to 2.5	Pass
				10	3.85	1.545	0.0020	-2.5 to 2.5	Pass
				30	3.85	1.445	0.0019	-2.5 to 2.5	Pass
				40	3.85	1.817	0.0023	-2.5 to 2.5	Pass
	50	3.85	1.760	0.0023	-2.5 to 2.5	Pass			
	782	25	0	20	3.27	2.489	0.0032	-2.5 to 2.5	Pass
					3.85	2.217	0.0028	-2.5 to 2.5	Pass
					4.43	3.476	0.0044	-2.5 to 2.5	Pass
				-30	3.85	2.060	0.0026	-2.5 to 2.5	Pass
				-20	3.85	2.975	0.0038	-2.5 to 2.5	Pass
				-10	3.85	1.831	0.0023	-2.5 to 2.5	Pass
				0	3.85	1.273	0.0016	-2.5 to 2.5	Pass
				10	3.85	1.903	0.0024	-2.5 to 2.5	Pass
				30	3.85	1.602	0.0020	-2.5 to 2.5	Pass
				40	3.85	0.429	0.0005	-2.5 to 2.5	Pass
	50	3.85	0.358	0.0005	-2.5 to 2.5	Pass			
	784.5	25	0	20	3.27	-0.257	-0.0003	-2.5 to 2.5	Pass
					3.85	1.731	0.0022	-2.5 to 2.5	Pass
					4.43	0.157	0.0002	-2.5 to 2.5	Pass
				-30	3.85	1.531	0.0020	-2.5 to 2.5	Pass
				-20	3.85	1.402	0.0018	-2.5 to 2.5	Pass
				-10	3.85	-0.329	-0.0004	-2.5 to 2.5	Pass
				0	3.85	1.760	0.0022	-2.5 to 2.5	Pass
				10	3.85	1.431	0.0018	-2.5 to 2.5	Pass
30				3.85	0.715	0.0009	-2.5 to 2.5	Pass	
40				3.85	2.890	0.0037	-2.5 to 2.5	Pass	
50	3.85	2.103	0.0027	-2.5 to 2.5	Pass				



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2.1.2 B13\_10MHz

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	0.830	0.0011	-2.5 to 2.5	Pass
					3.85	-0.772	-0.0010	-2.5 to 2.5	Pass
					4.43	-0.443	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	0.157	0.0002	-2.5 to 2.5	Pass
					-20	3.85	-0.300	-0.0004	-2.5 to 2.5
				-10	3.85	-0.272	-0.0003	-2.5 to 2.5	Pass
					0	3.85	-0.658	-0.0008	-2.5 to 2.5
				10	3.85	0.372	0.0005	-2.5 to 2.5	Pass
					30	3.85	-0.358	-0.0005	-2.5 to 2.5
				40	3.85	-1.531	-0.0020	-2.5 to 2.5	Pass
50	3.85	-0.587	-0.0008	-2.5 to 2.5	Pass				
16QAM	782	50	0	20	3.27	1.001	0.0013	-2.5 to 2.5	Pass
					3.85	-0.501	-0.0006	-2.5 to 2.5	Pass
					4.43	-0.772	-0.0010	-2.5 to 2.5	Pass
				-30	3.85	-0.443	-0.0006	-2.5 to 2.5	Pass
					-20	3.85	1.717	0.0022	-2.5 to 2.5
				-10	3.85	-0.629	-0.0008	-2.5 to 2.5	Pass
					0	3.85	1.688	0.0022	-2.5 to 2.5
				10	3.85	0.558	0.0007	-2.5 to 2.5	Pass
					30	3.85	0.315	0.0004	-2.5 to 2.5
				40	3.85	0.916	0.0012	-2.5 to 2.5	Pass
50	3.85	0.873	0.0011	-2.5 to 2.5	Pass				



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### 3. 99% & 26dB Bandwidth

#### 3.1 Test Result

##### 3.1.1 Band13\_OBW

Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	779.5	25	0	4.554	/	Pass
		782	25	0	4.571	/	Pass
		784.5	25	0	4.567	/	Pass
	16QAM	779.5	25	0	4.547	/	Pass
		782	25	0	4.582	/	Pass
		784.5	25	0	4.566	/	Pass
10	QPSK	782	50	0	9.071	/	Pass
	16QAM	782	50	0	9.065	/	Pass

##### 3.1.2 Band13\_XDB

Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	779.5	25	0	5.204	/	Pass
		782	25	0	5.239	/	Pass
		784.5	25	0	5.220	/	Pass
	16QAM	779.5	25	0	5.249	/	Pass
		782	25	0	5.326	/	Pass
		784.5	25	0	5.160	/	Pass
10	QPSK	782	50	0	10.073	/	Pass
	16QAM	782	50	0	10.091	/	Pass

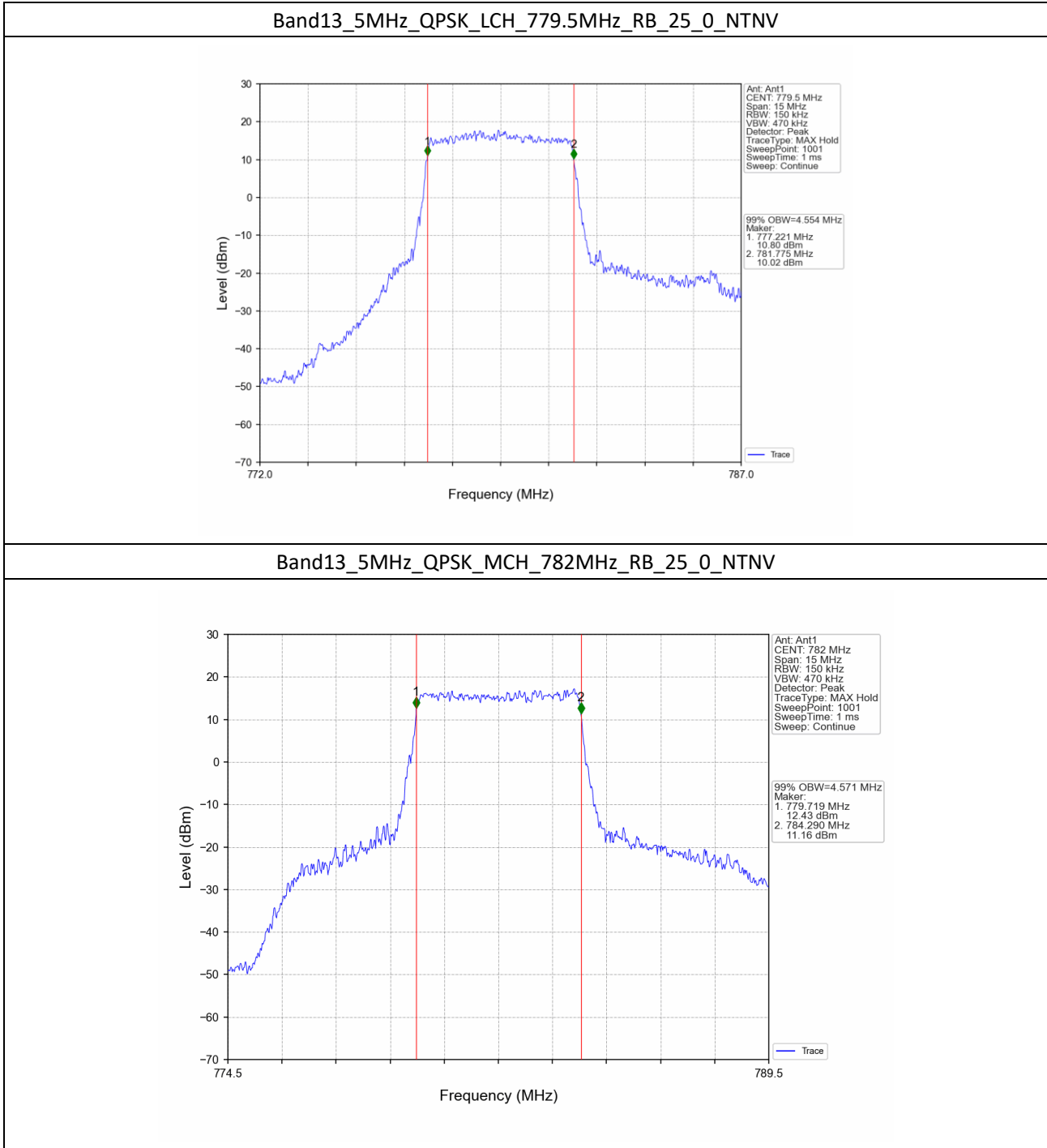


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## 3.2 Test Graph

### 3.2.1 Band13\_OBW

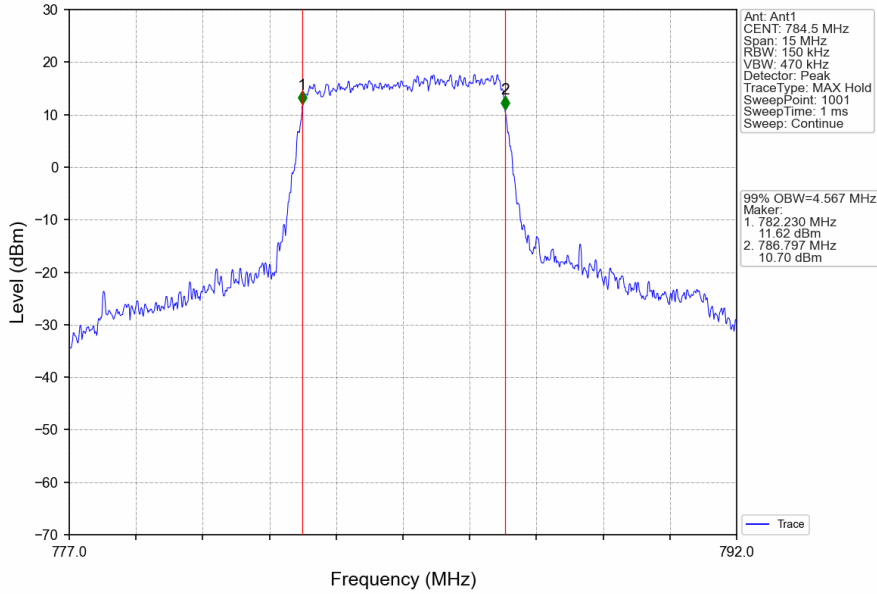


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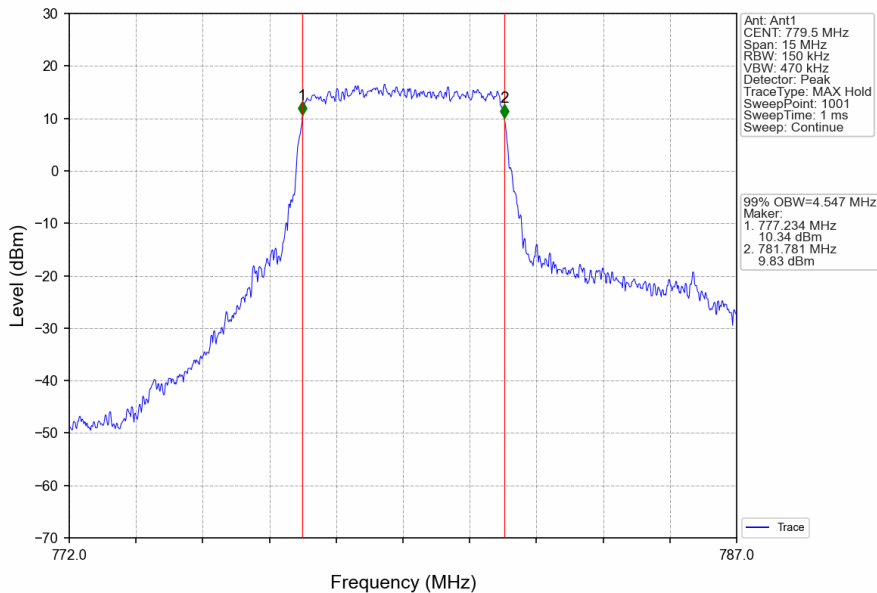
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Band13\_5MHz\_QPSK\_HCH\_784.5MHz\_RB\_25\_0\_NTNV



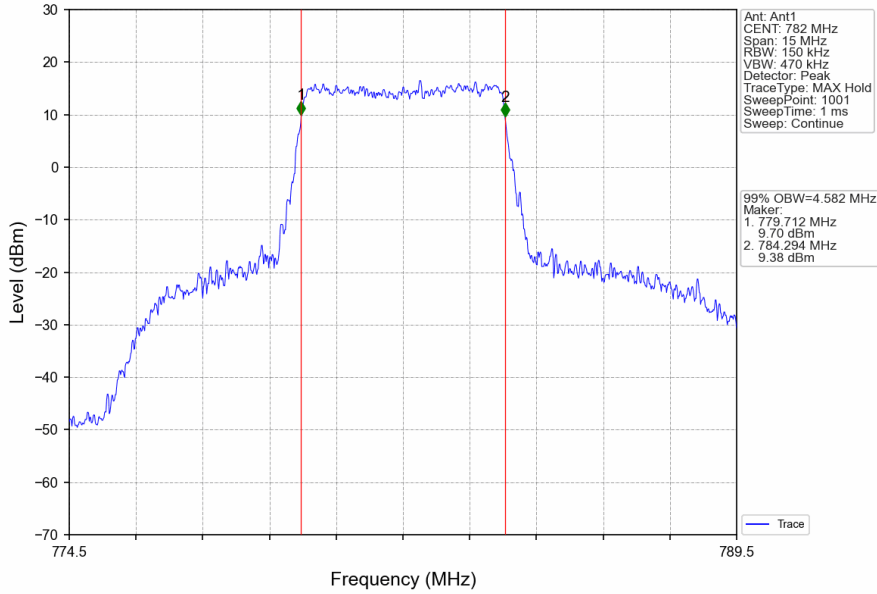
Band13\_5MHz\_16QAM\_LCH\_779.5MHz\_RB\_25\_0\_NTNV



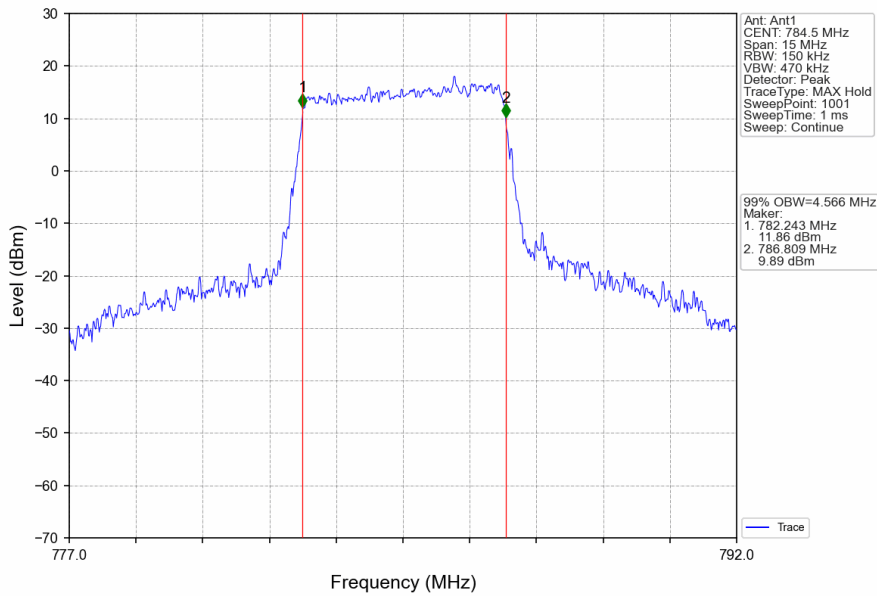
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Band13\_5MHz\_16QAM\_MCH\_782MHz\_RB\_25\_0\_NTNV



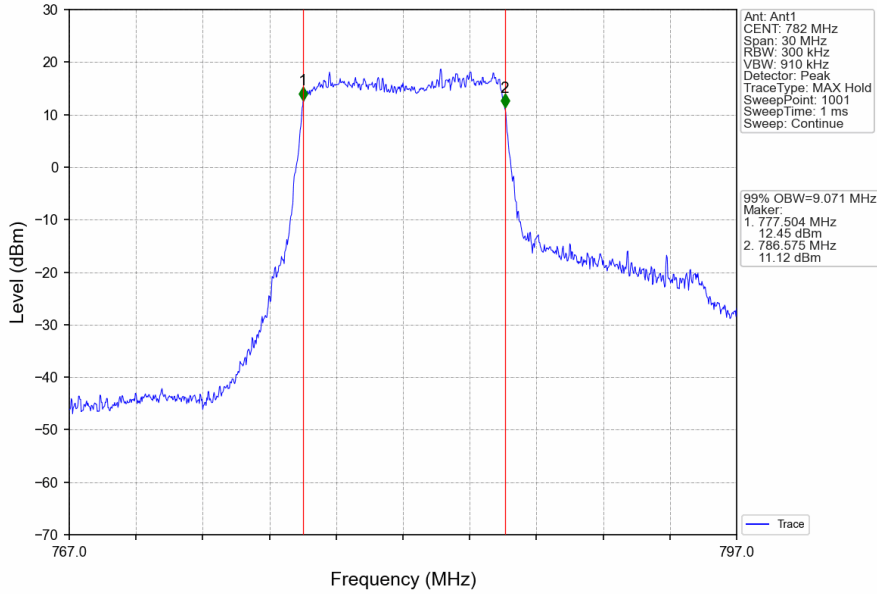
Band13\_5MHz\_16QAM\_HCH\_784.5MHz\_RB\_25\_0\_NTNV



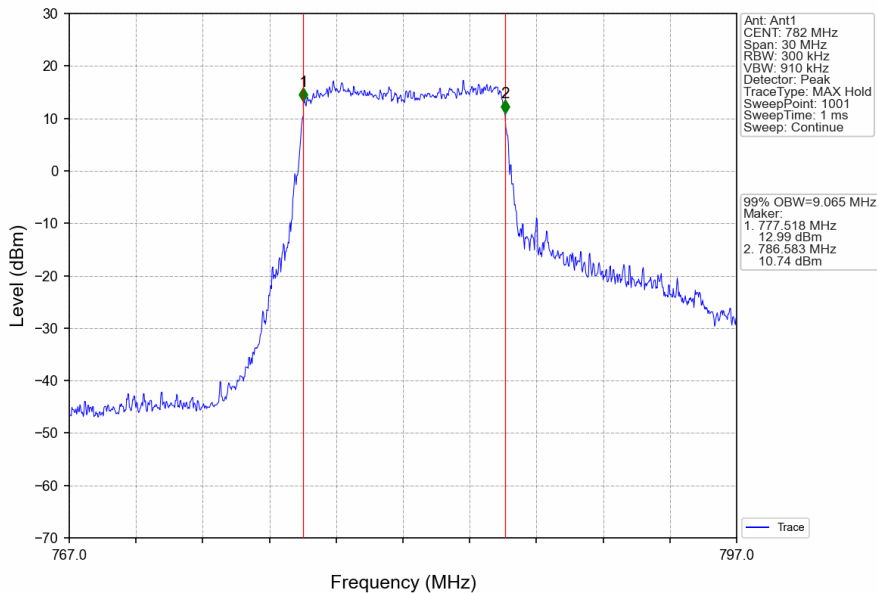
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Band13\_10MHz\_QPSK\_MCH\_782MHz\_RB\_50\_0\_NTNV



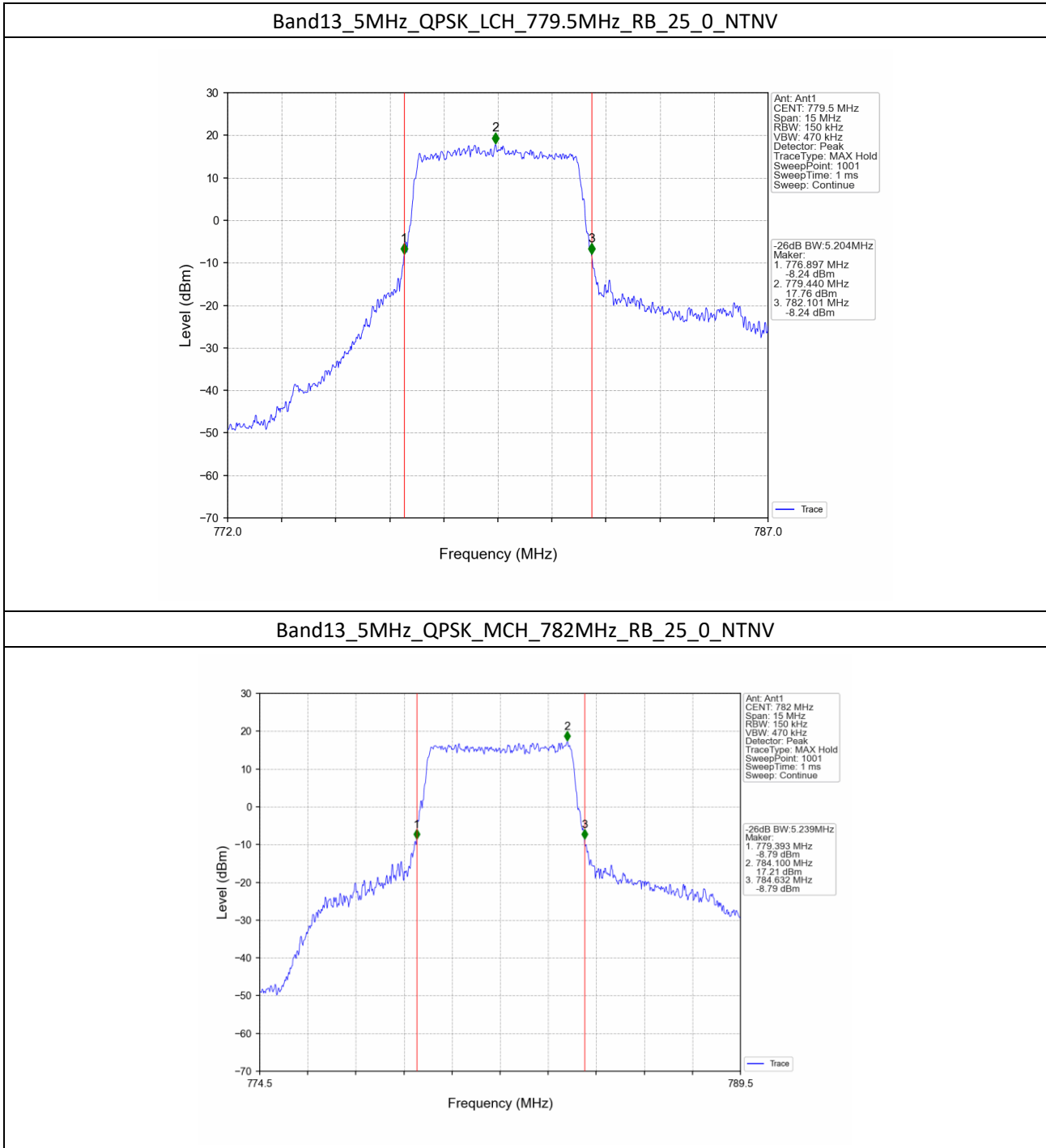
Band13\_10MHz\_16QAM\_MCH\_782MHz\_RB\_50\_0\_NTNV



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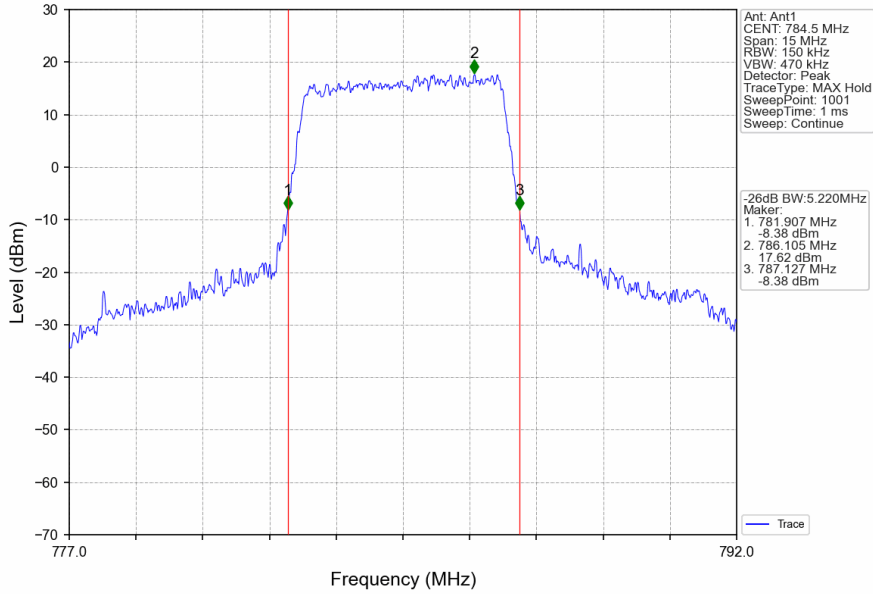
### 3.2.2 Band13\_XDB



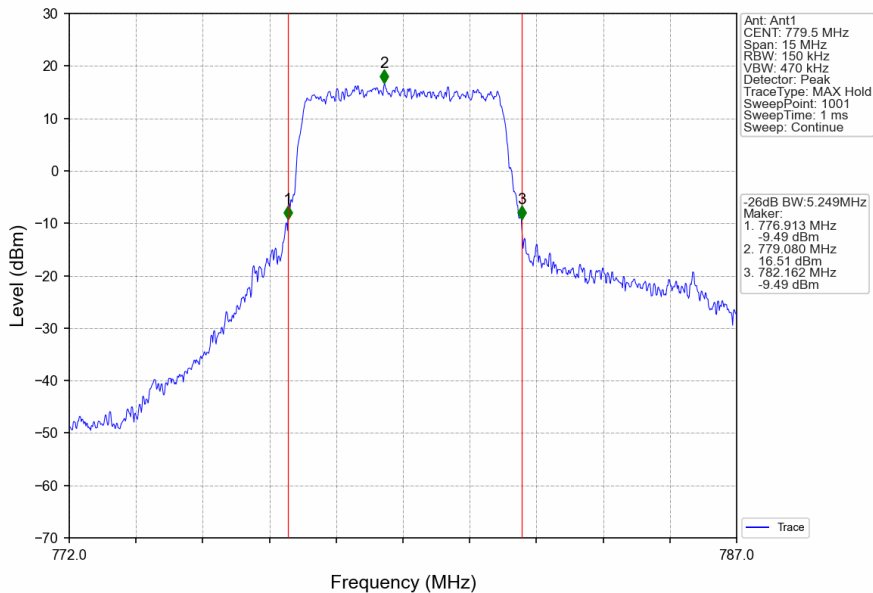
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Band13\_5MHz\_QPSK\_HCH\_784.5MHz\_RB\_25\_0\_NTNV



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

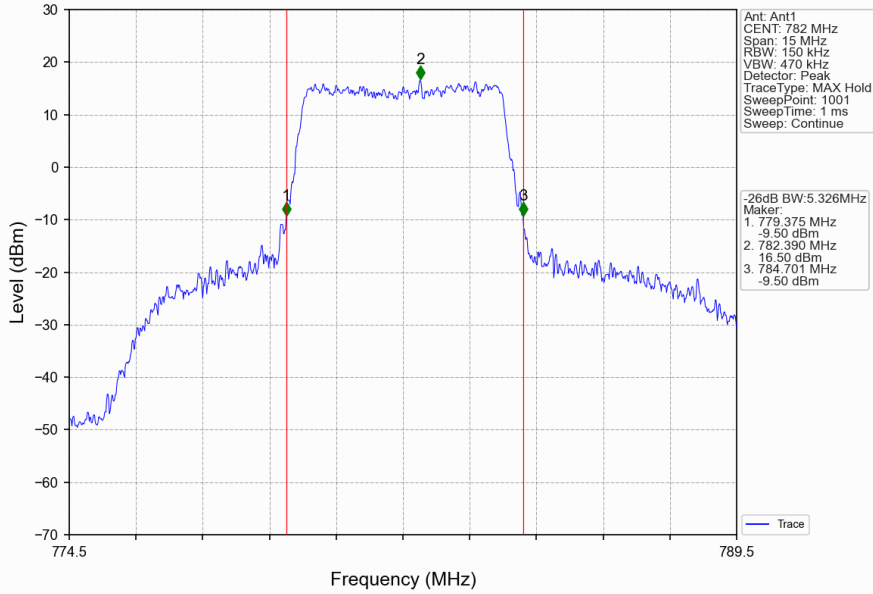


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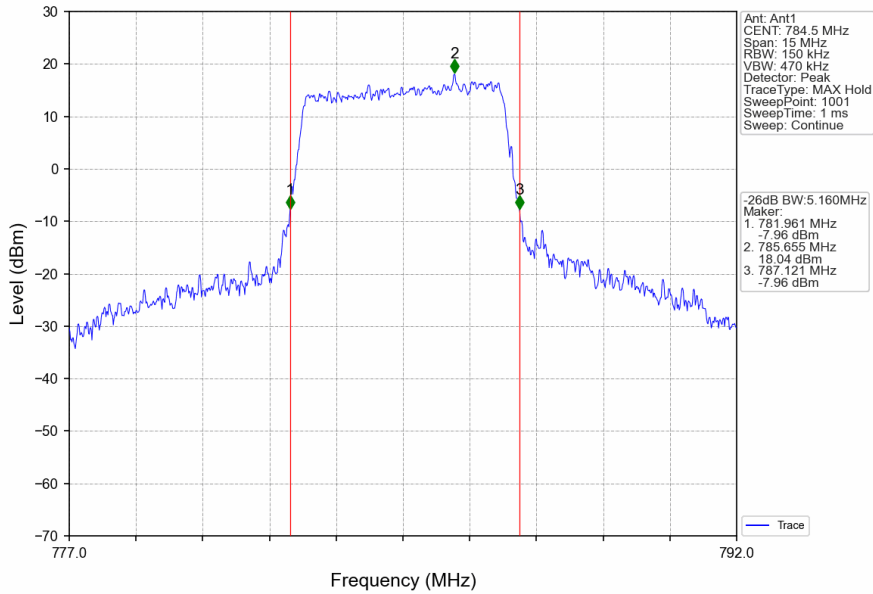
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Band13\_5MHz\_16QAM\_MCH\_782MHz\_RB\_25\_0\_NTNV



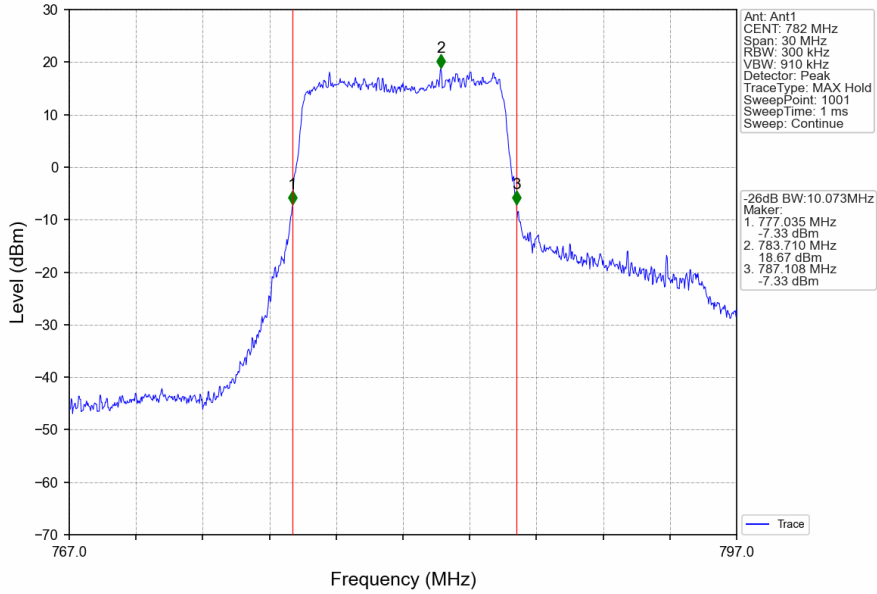
Band13\_5MHz\_16QAM\_HCH\_784.5MHz\_RB\_25\_0\_NTNV



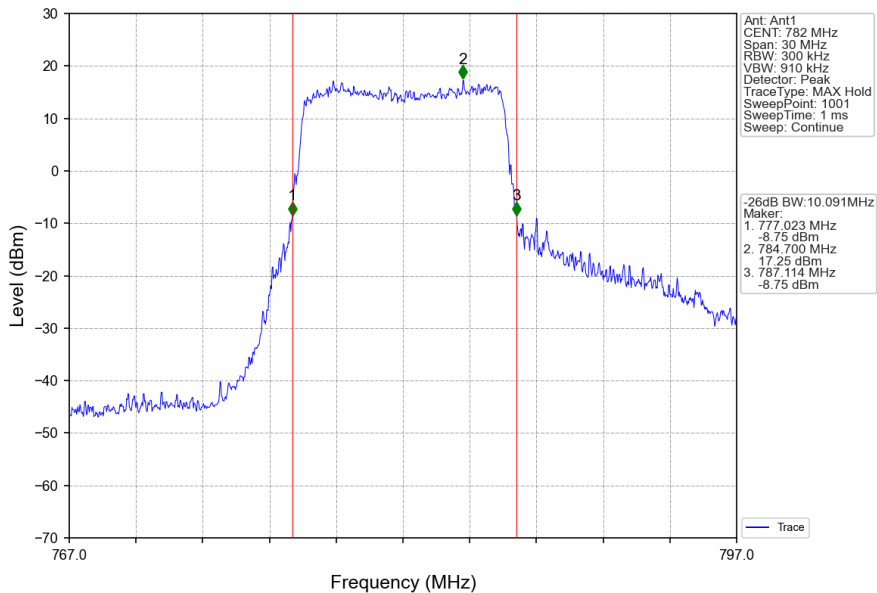
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Band13\_10MHz\_QPSK\_MCH\_782MHz\_RB\_50\_0\_NTNV



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



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## 4. Peak-Average Ratio

### 4.1 Test Result

#### 4.1.1 B13\_5MHz

Band: 13 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	25	0	4.93	<=13	Pass
	782	25	0	5.42	<=13	Pass
	784.5	25	0	5.12	<=13	Pass
16QAM	779.5	25	0	5.75	<=13	Pass
	782	25	0	6.27	<=13	Pass
	784.5	25	0	5.97	<=13	Pass

#### 4.1.2 B13\_10MHz

Band: 13 / Bandwidth: 10MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	782	50	0	8.35	<=13	Pass
16QAM	782	50	0	6.06	<=13	Pass



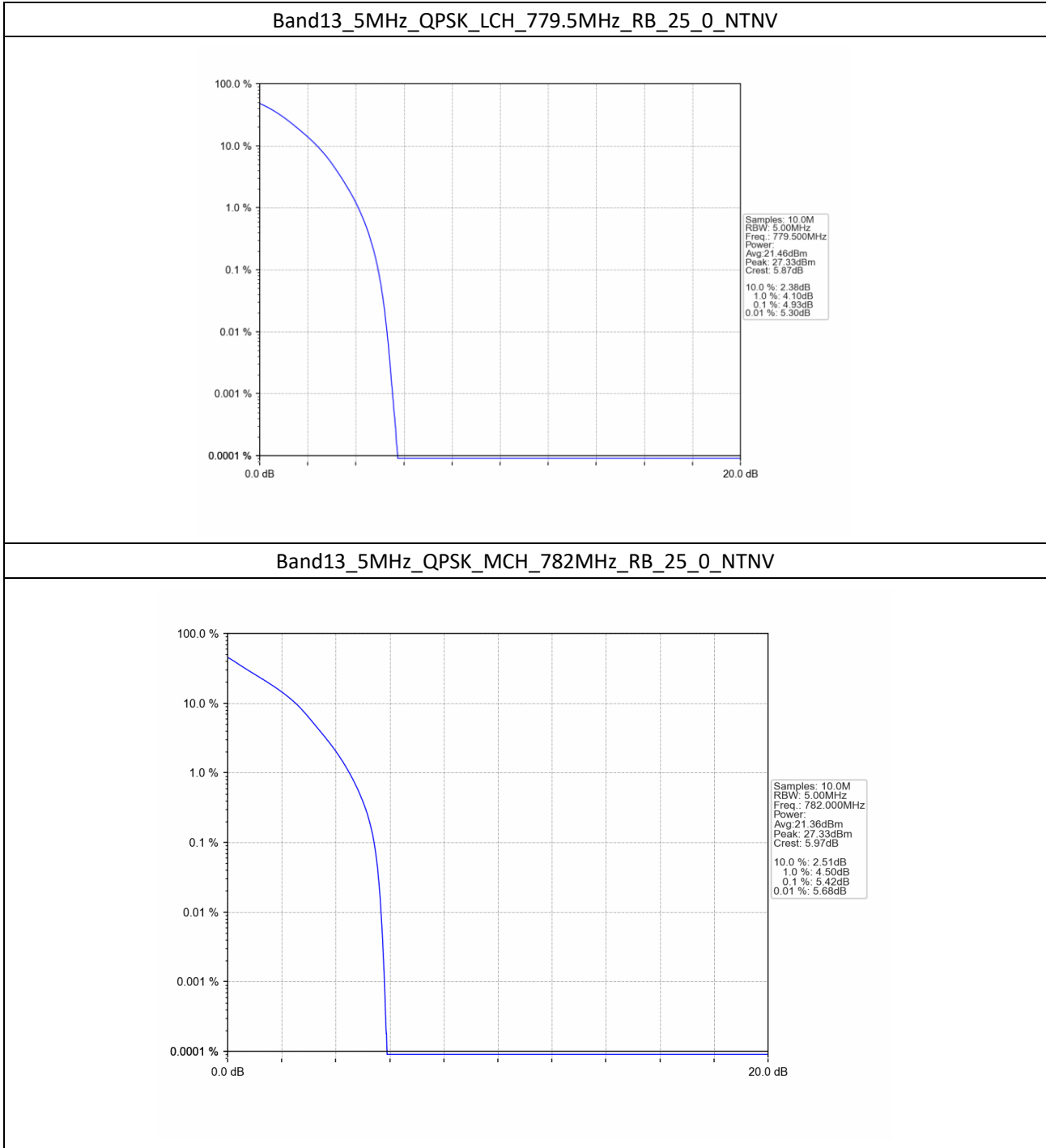
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## 4.2 Test Graph

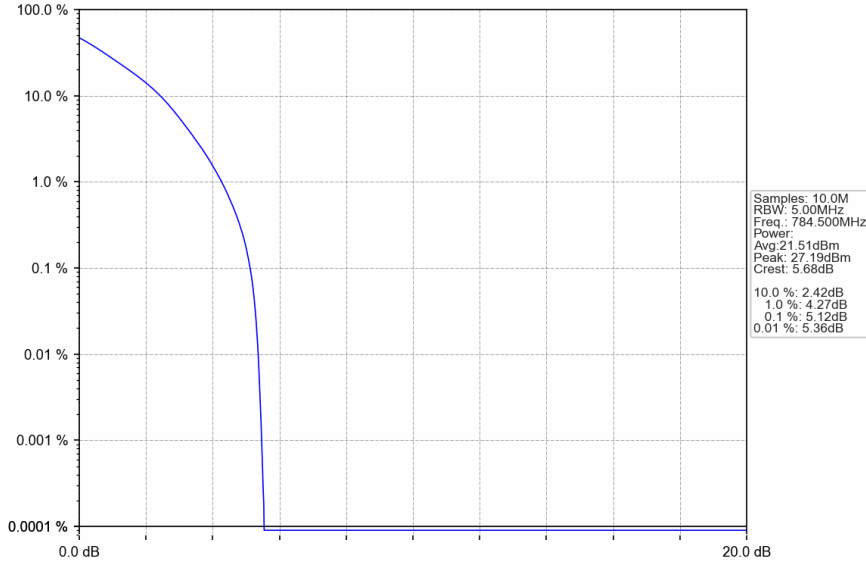
### 4.2.1 B13\_5MHz



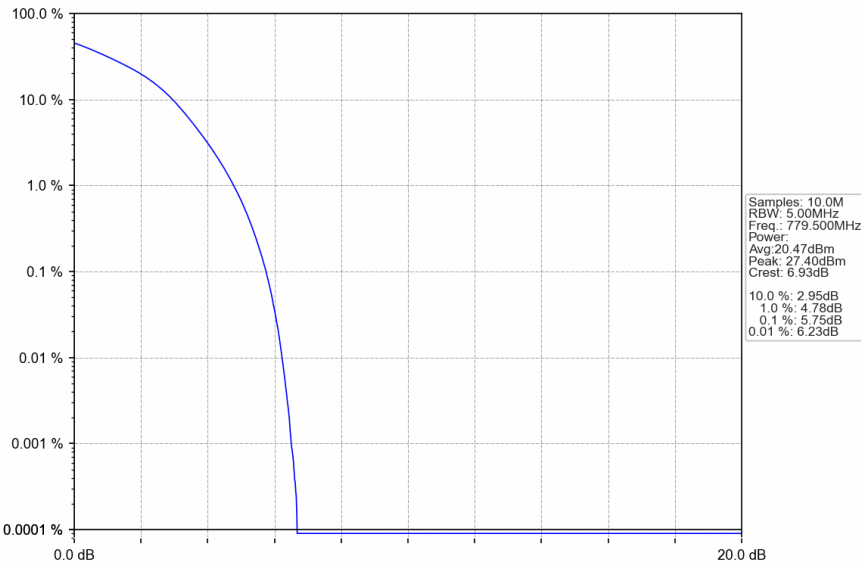
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Band13\_5MHz\_QPSK\_HCH\_784.5MHz\_RB\_25\_0\_NTNV



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

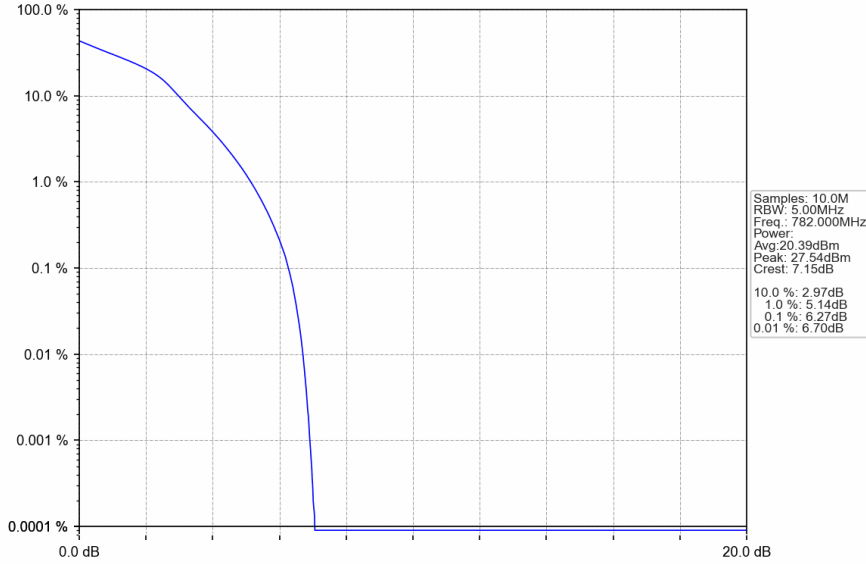


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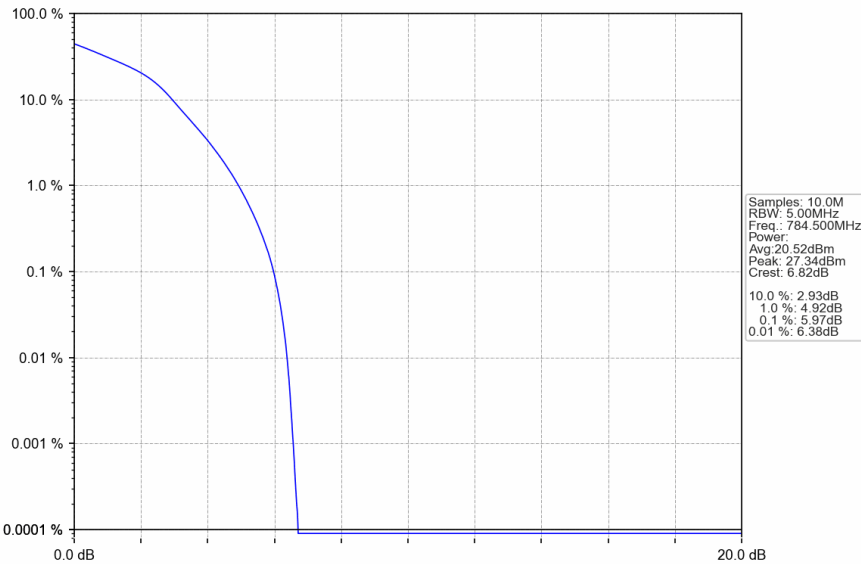
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Band13\_5MHz\_16QAM\_MCH\_782MHz\_RB\_25\_0\_NTNV



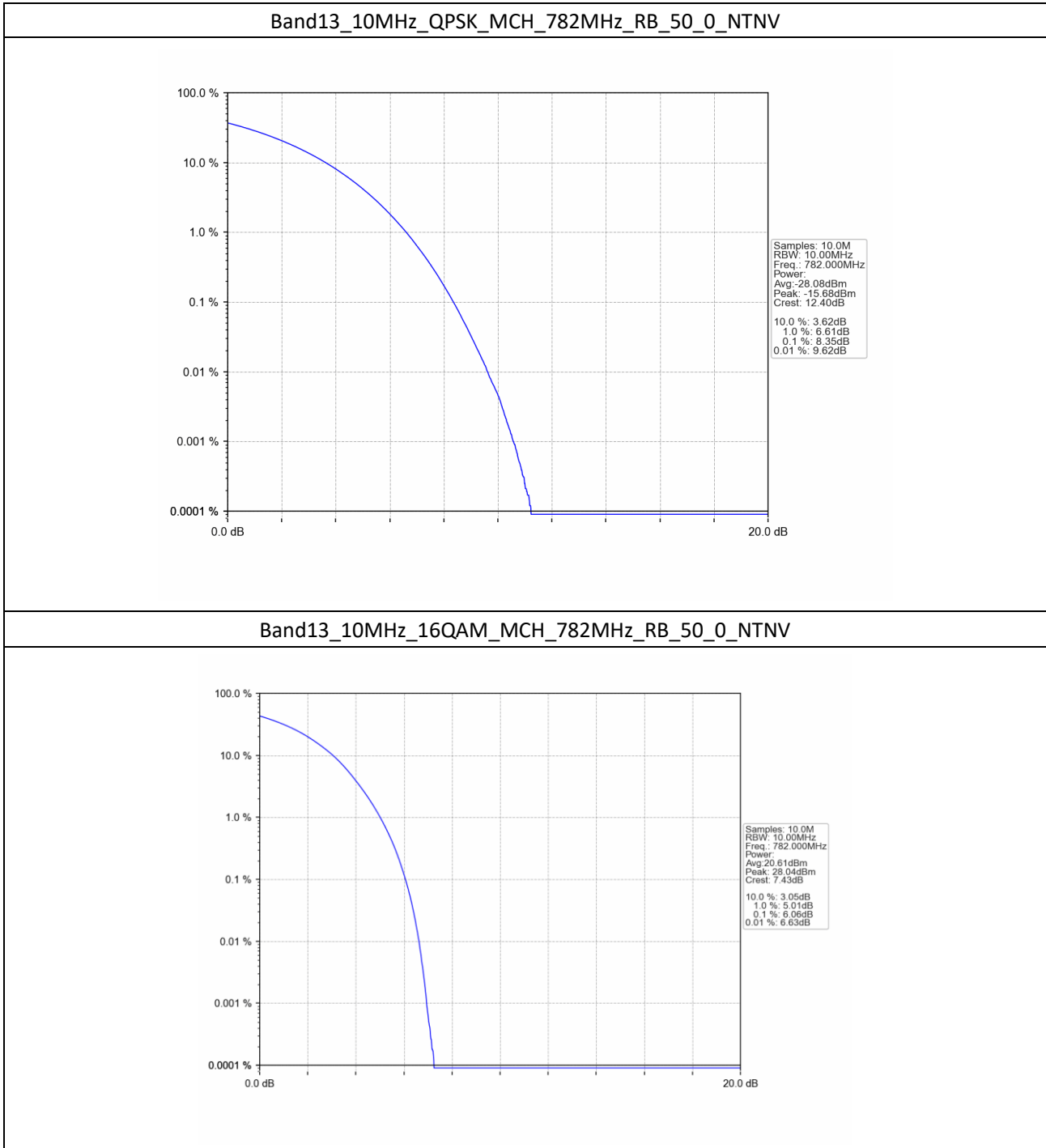
Band13\_5MHz\_16QAM\_HCH\_784.5MHz\_RB\_25\_0\_NTNV



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4.2.2 B13\_10MHz



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5. Spurious Emission

5.1 Test Result

5.1.1 B13\_5MHz

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
	782	1	0	Refer To Test Graph		Pass
	784.5	1	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
	782	1	0	Refer To Test Graph		Pass
	784.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

5.1.2 B13\_10MHz

Band: 13 / Bandwidth: 10MHz / NTNV						
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	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	782	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	782	1	49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

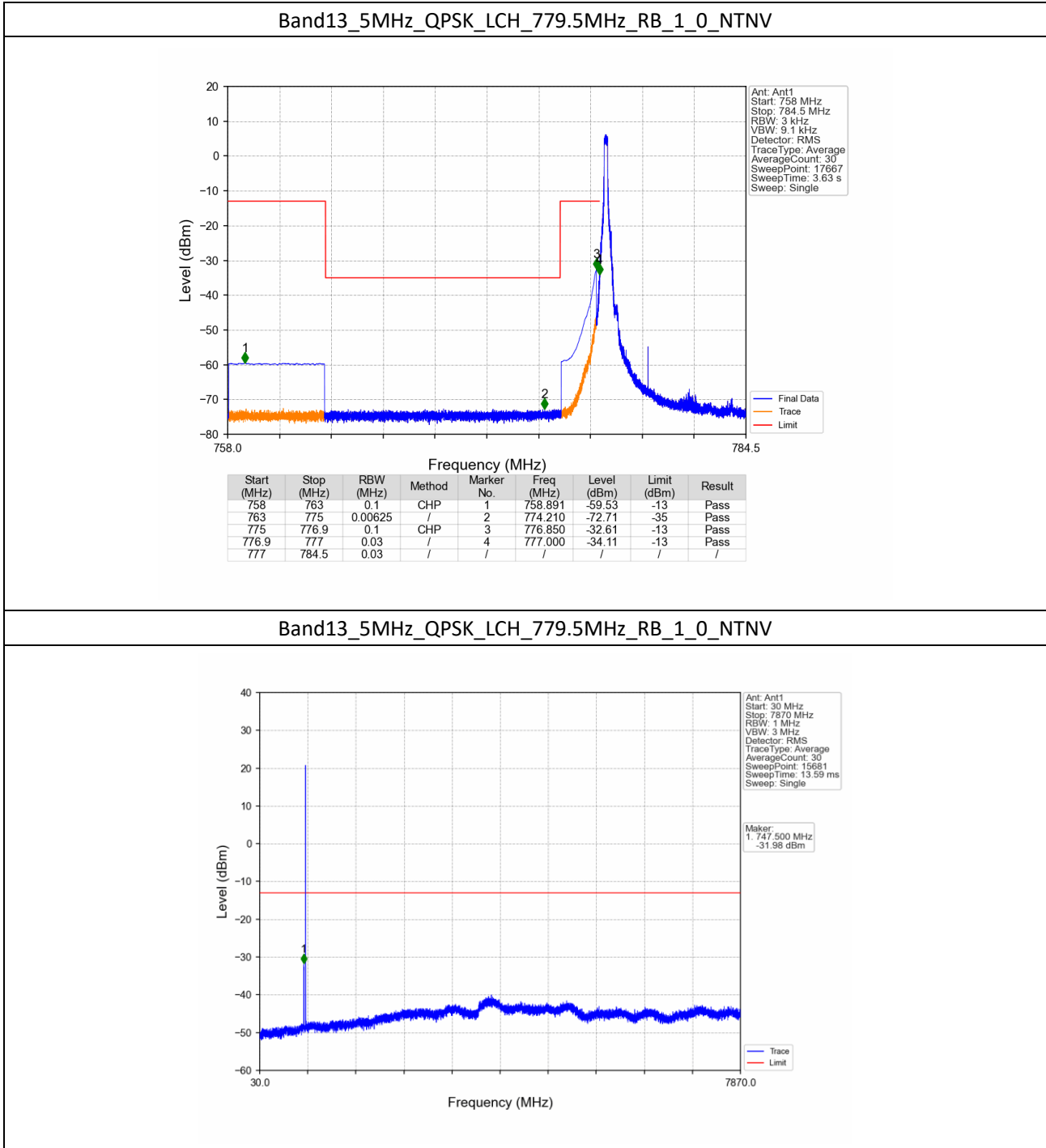


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## 5.2 Test Graph

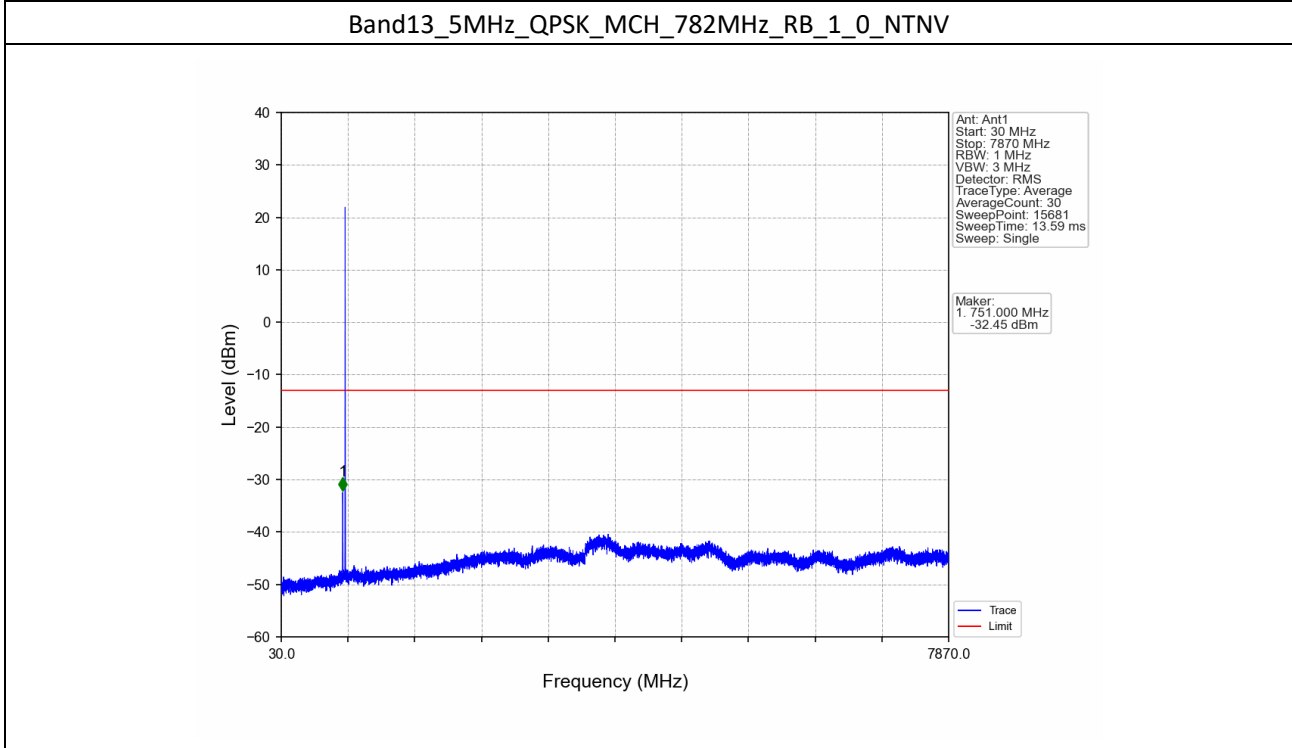
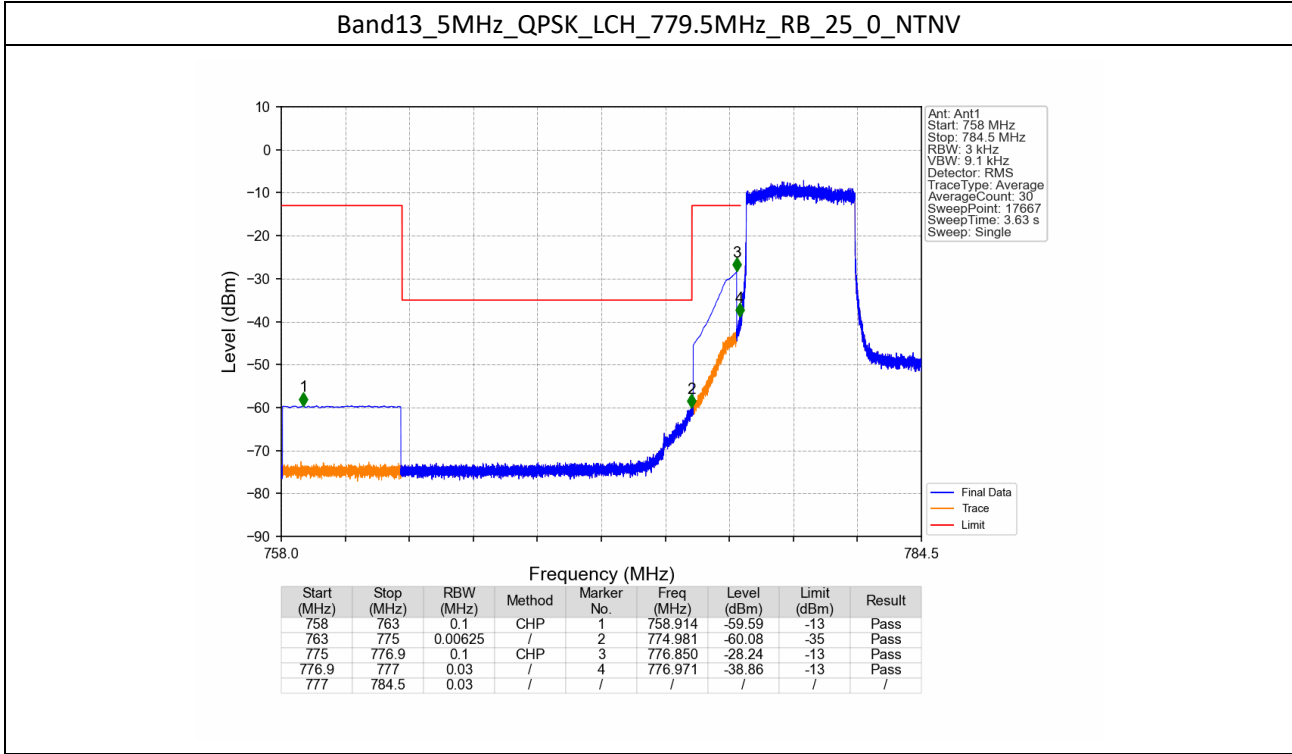
### 5.2.1 B13\_5MHz



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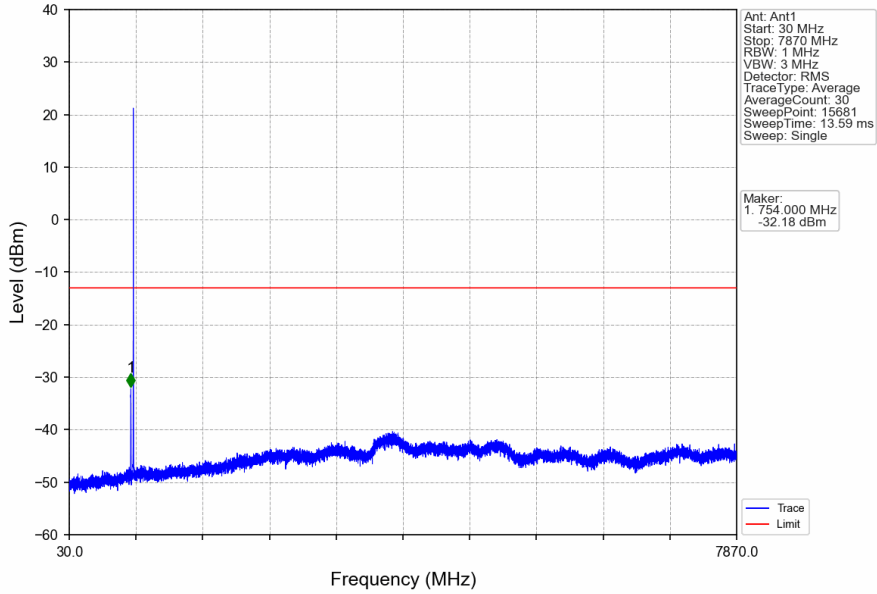


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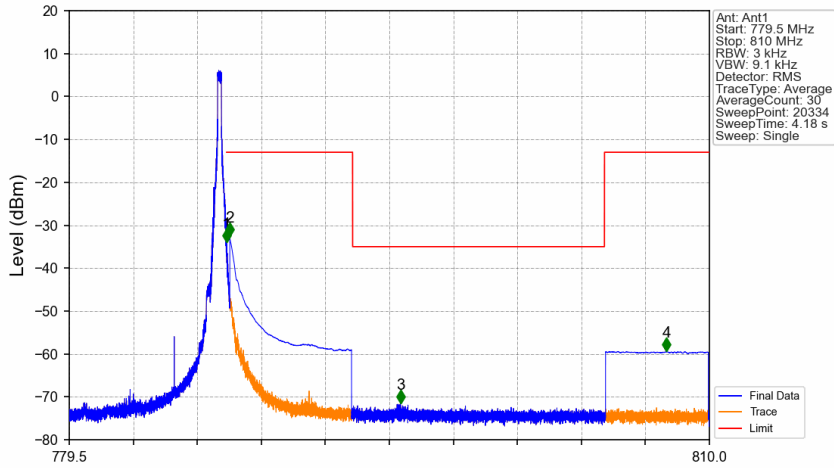
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Band13\_5MHz\_QPSK\_HCH\_784.5MHz\_RB\_1\_0\_NTNV



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



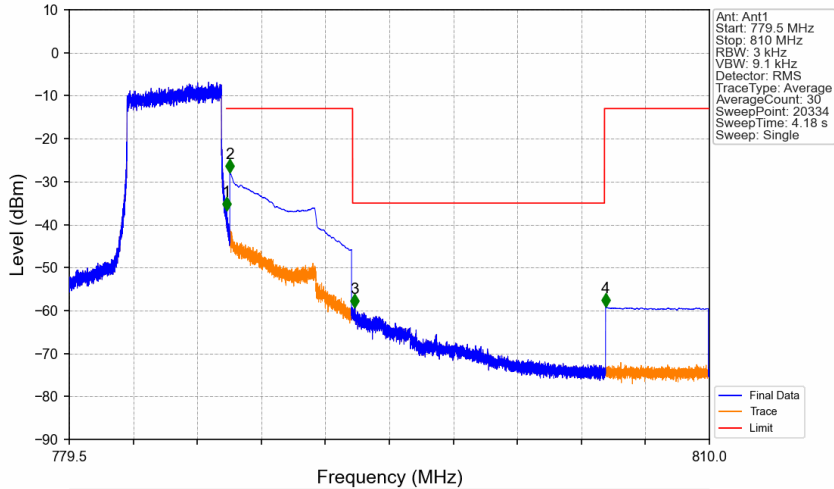
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.000	-33.95	-13	Pass
787.1	793	0.1	CHP	2	787.150	-32.62	-13	Pass
793	805	0.00625	/	3	795.273	-71.53	-35	Pass
805	810	0.1	CHP	4	807.954	-59.43	-13	Pass



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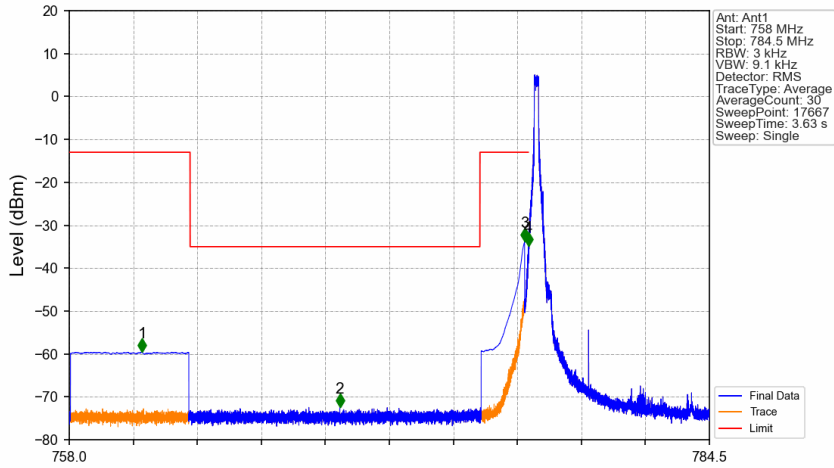
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### Band13\_5MHz\_QPSK\_HCH\_784.5MHz\_RB\_25\_0\_NTNV



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	787.000	-36.68	-13	Pass
787.1	793	0.1	CHP	2	787.150	-27.98	-13	Pass
793	805	0.00625	/	3	793.087	-59.28	-35	Pass
805	810	0.1	CHP	4	805.060	-59.18	-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	761.011	-59.58	-13	Pass
763	775	0.00625	/	2	769.199	-72.41	-35	Pass
775	776.9	0.1	CHP	3	776.850	-33.84	-13	Pass
776.9	777	0.03	/	4	777.000	-34.92	-13	Pass
777	784.5	0.03	/	/	/	/	/	/

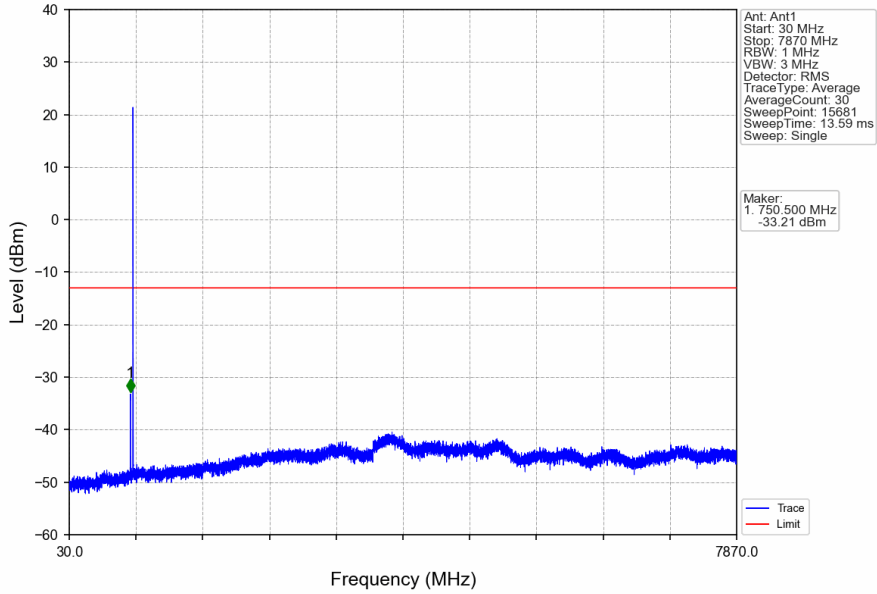


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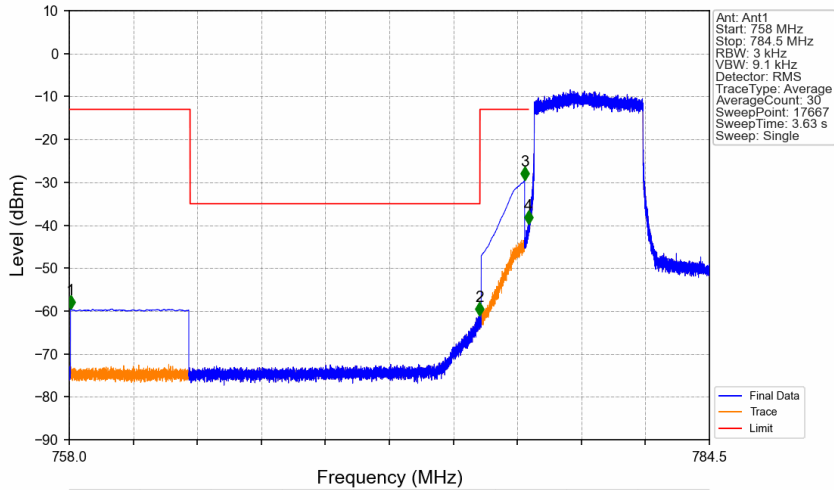
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Band13\_5MHz\_16QAM\_LCH\_779.5MHz\_RB\_1\_0\_NTNV



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



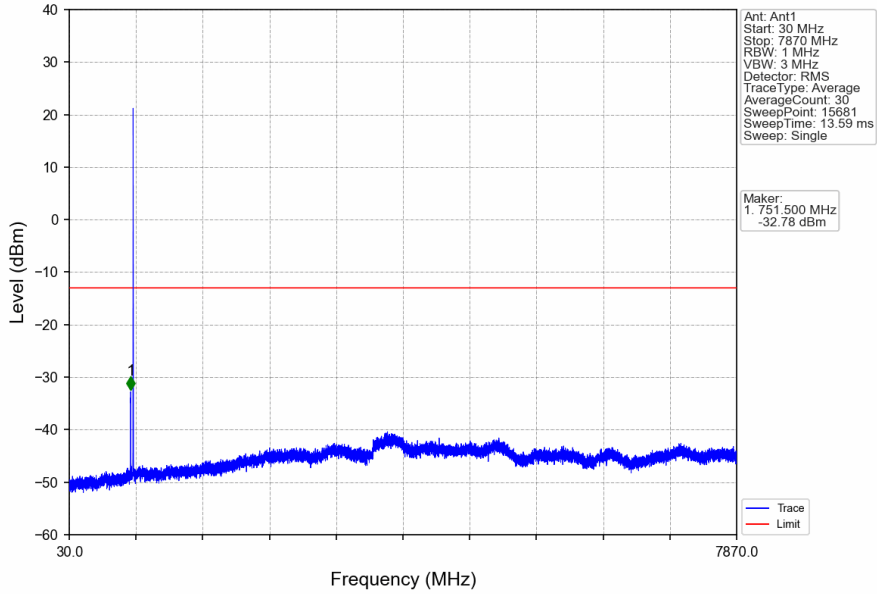
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	758.051	-59.51	-13	Pass
763	775	0.00625	/	2	774.993	-61.16	-35	Pass
775	776.9	0.1	CHP	3	776.850	-29.48	-13	Pass
776.9	777	0.03	/	4	777.000	-39.74	-13	Pass
777	784.5	0.03	/	/	/	/	/	/



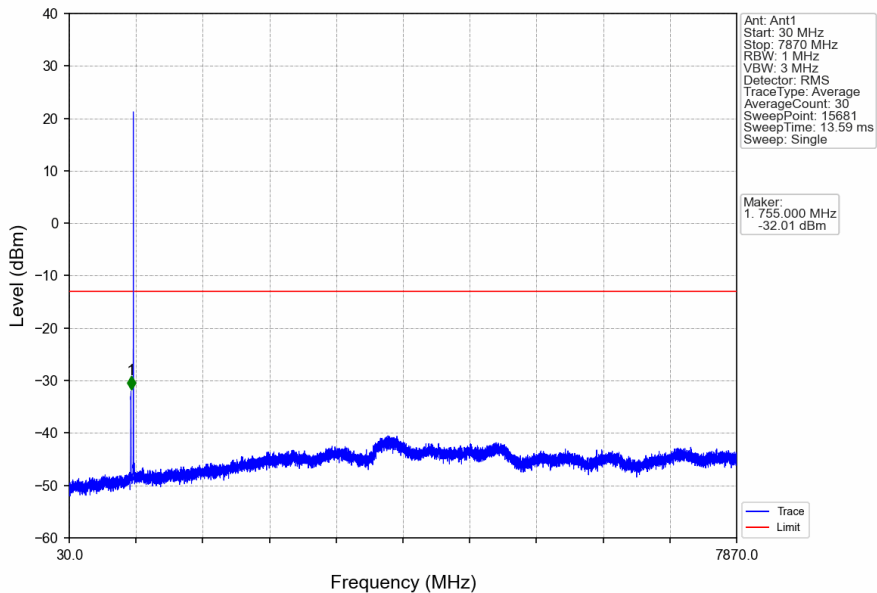
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Band13\_5MHz\_16QAM\_MCH\_782MHz\_RB\_1\_0\_NTNV



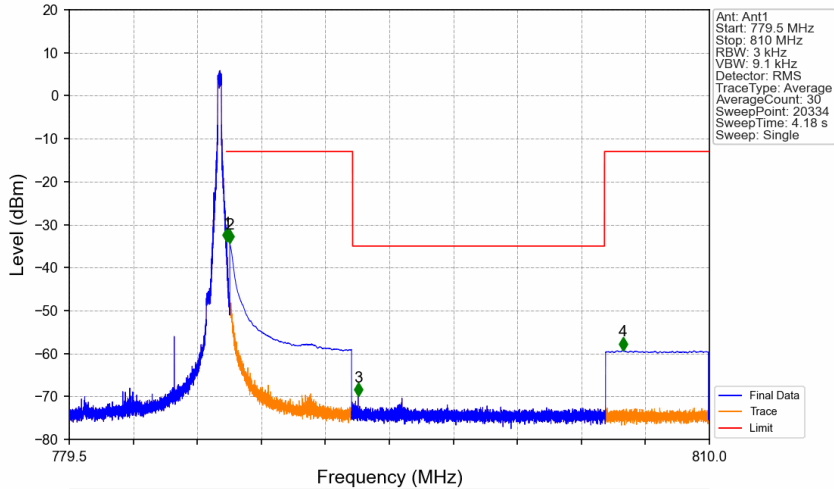
Band13\_5MHz\_16QAM\_HCH\_784.5MHz\_RB\_1\_0\_NTNV



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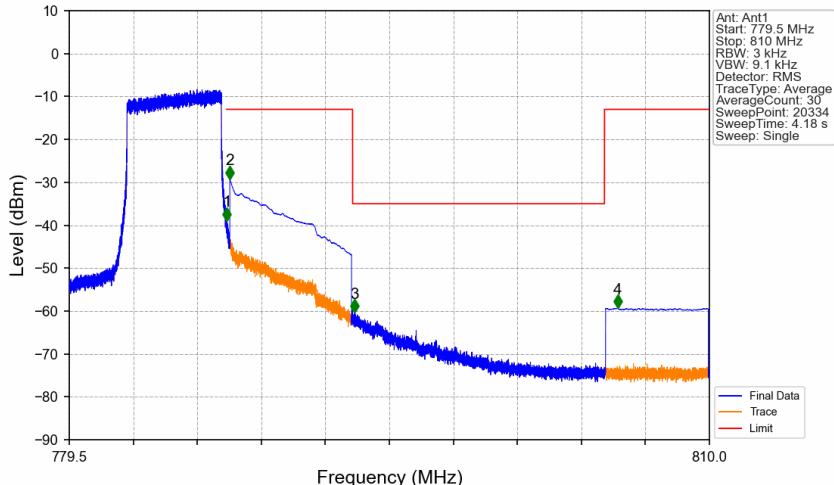
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Band13\_5MHz\_16QAM\_HCH\_784.5MHz\_RB\_1\_24\_NTNV



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	787.002	-33.93	-13	Pass
787.1	793	0.1	CHP	2	787.150	-34.37	-13	Pass
793	805	0.00625	/	3	793.263	-70.01	-35	Pass
805	810	0.1	CHP	4	805.885	-59.30	-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	787.012	-38.96	-13	Pass
787.1	793	0.1	CHP	2	787.150	-29.25	-13	Pass
793	805	0.00625	/	3	793.086	-60.32	-35	Pass
805	810	0.1	CHP	4	805.623	-59.34	-13	Pass

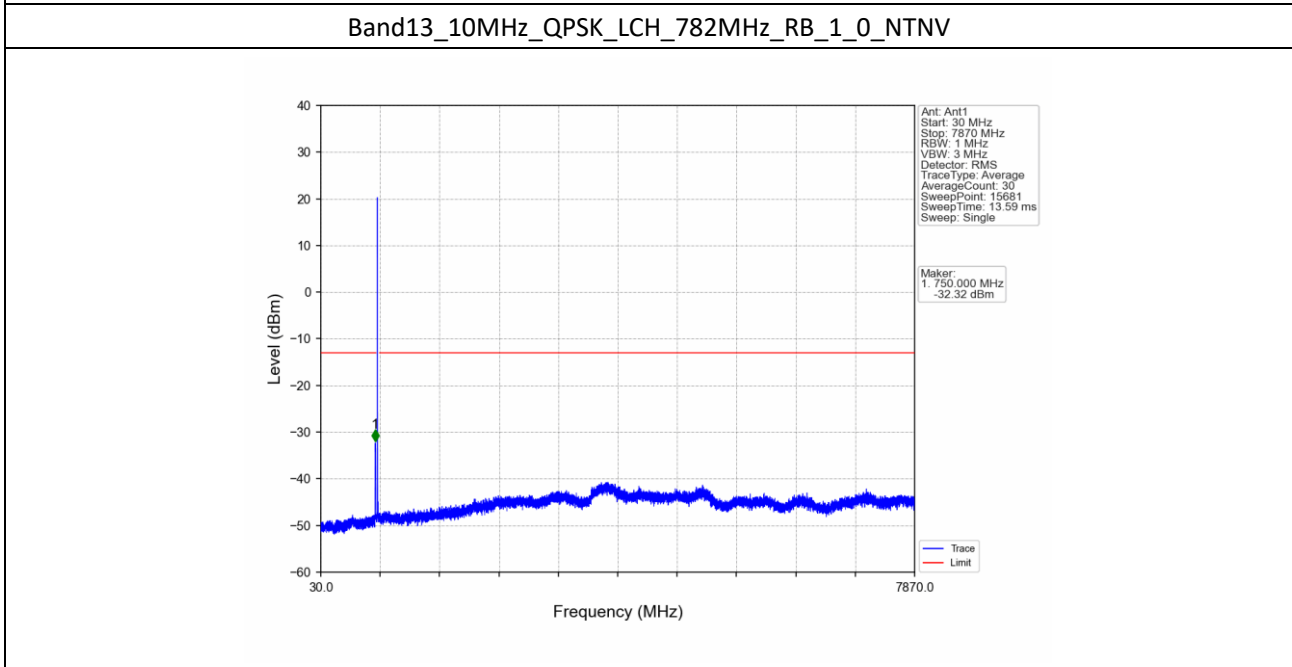
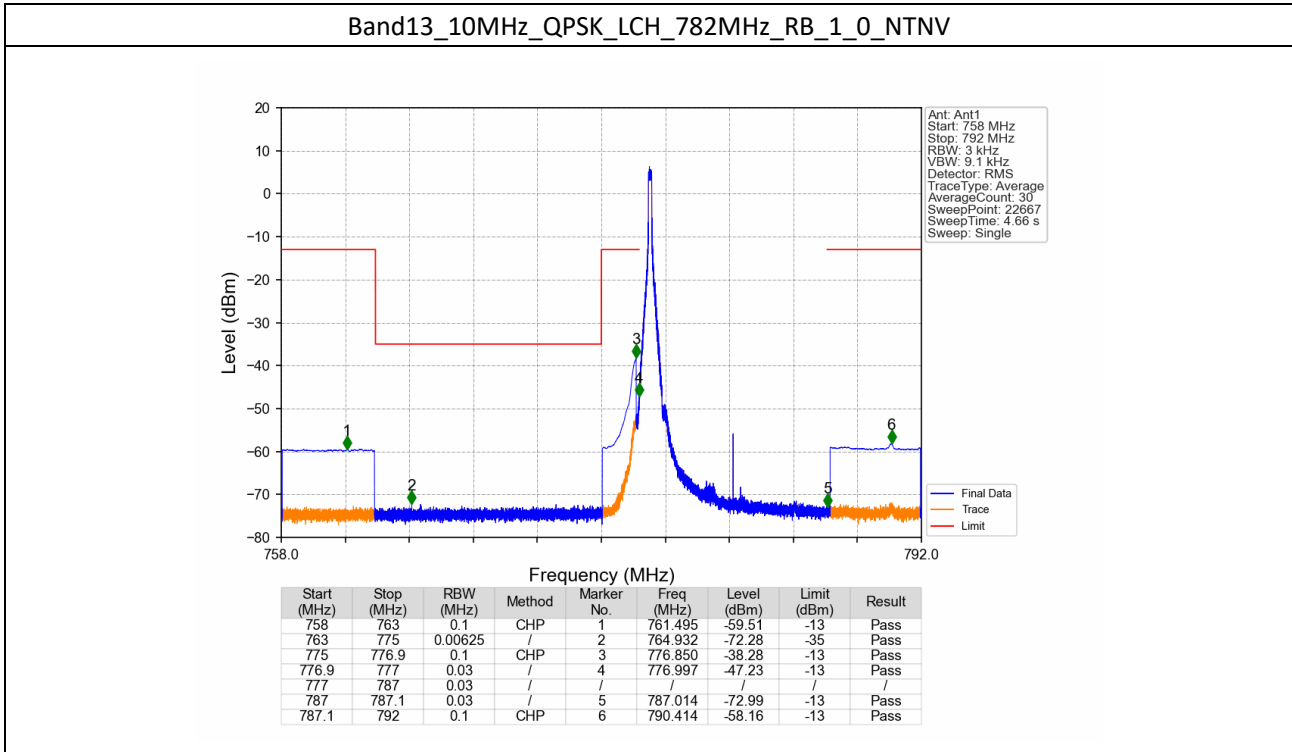


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5.2.2 B13\_10MHz

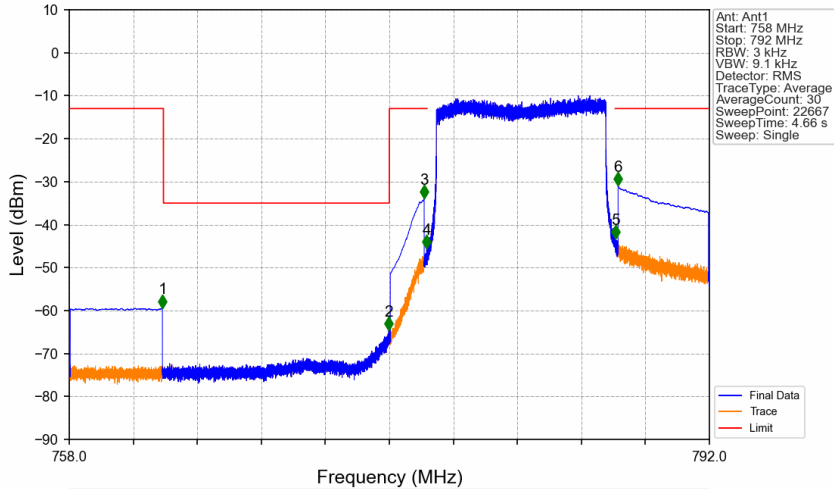


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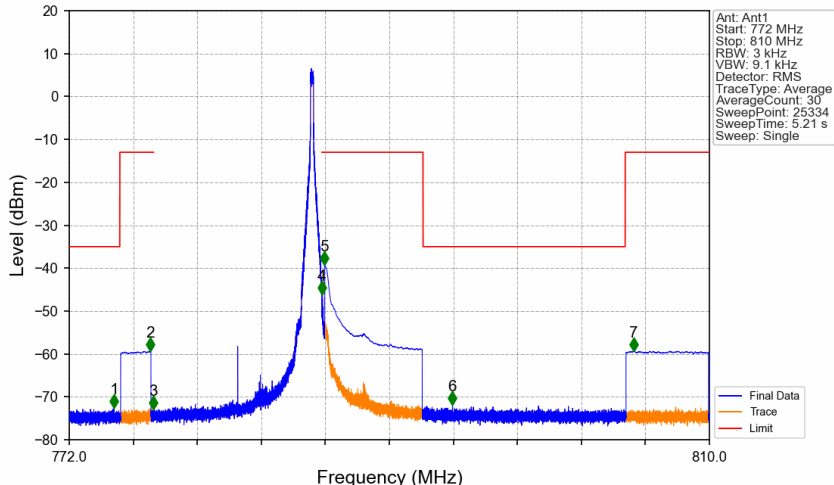
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### Band13\_10MHz\_QPSK\_LCH\_782MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.949	-59.41	-13	Pass
763	775	0.00625	/	2	774.970	-64.68	-35	Pass
775	776.9	0.1	CHP	3	776.850	-33.98	-13	Pass
776.9	777	0.03	/	4	776.985	-45.63	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.000	-43.28	-13	Pass
787.1	792	0.1	CHP	6	787.150	-30.97	-13	Pass

### 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	774.661	-72.64	-35	Pass
775	776.9	0.1	CHP	2	776.817	-59.38	-13	Pass
776.9	777	0.03	/	3	776.977	-72.90	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.000	-46.15	-13	Pass
787.1	793	0.1	CHP	5	787.150	-39.34	-13	Pass
793	805	0.00625	/	6	794.749	-71.90	-35	Pass
805	810	0.1	CHP	7	805.516	-59.32	-13	Pass

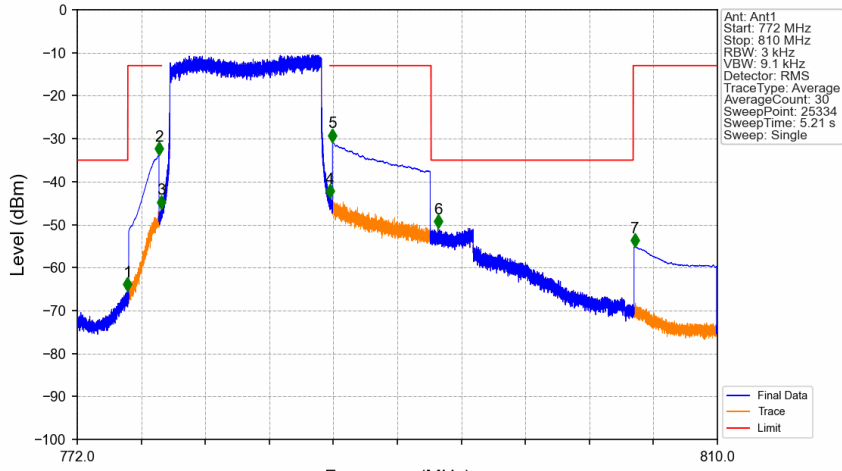


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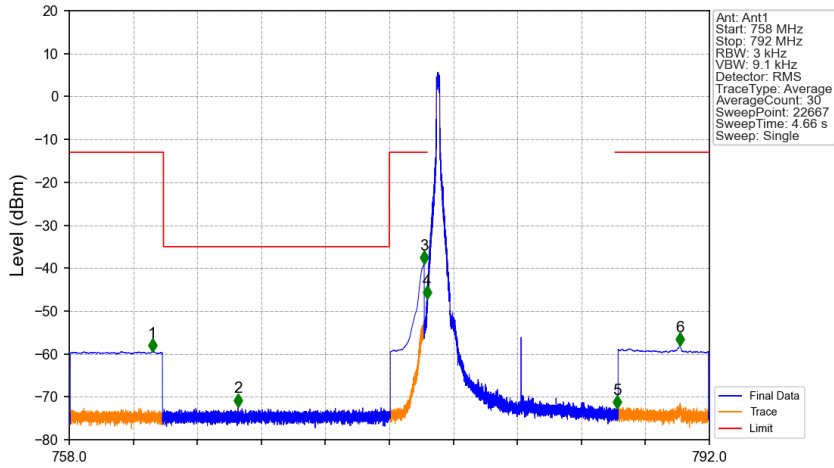
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### Band13\_10MHz\_QPSK\_HCH\_782MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.987	-65.48	-35	Pass
775	776.9	0.1	CHP	2	776.850	-33.82	-13	Pass
776.9	777	0.03	/	3	776.982	-46.29	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.000	-43.71	-13	Pass
787.1	793	0.1	CHP	5	787.150	-30.77	-13	Pass
793	805	0.00625	/	6	793.410	-50.75	-35	Pass
805	810	0.1	CHP	7	805.087	-55.15	-13	Pass

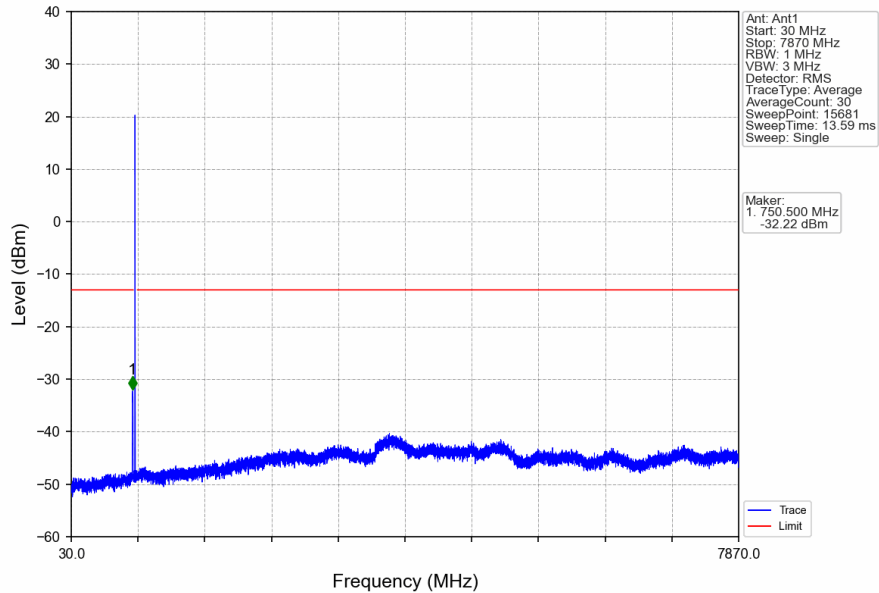
### Band13\_10MHz\_16QAM\_LCH\_782MHz\_RB\_1\_0\_NTNV



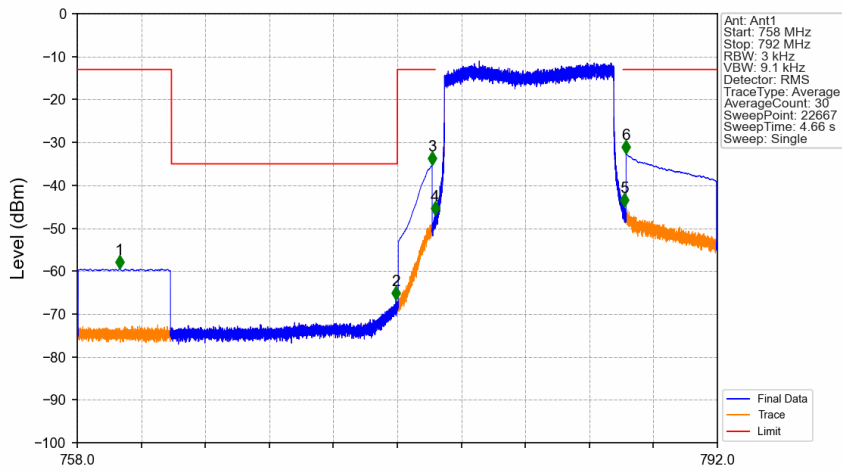
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.422	-59.49	-13	Pass
763	775	0.00625	/	2	766.969	-72.34	-35	Pass
775	776.9	0.1	CHP	3	776.850	-39.10	-13	Pass
776.9	777	0.03	/	4	776.995	-47.27	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.078	-72.83	-13	Pass
787.1	792	0.1	CHP	6	790.428	-58.12	-13	Pass



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



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



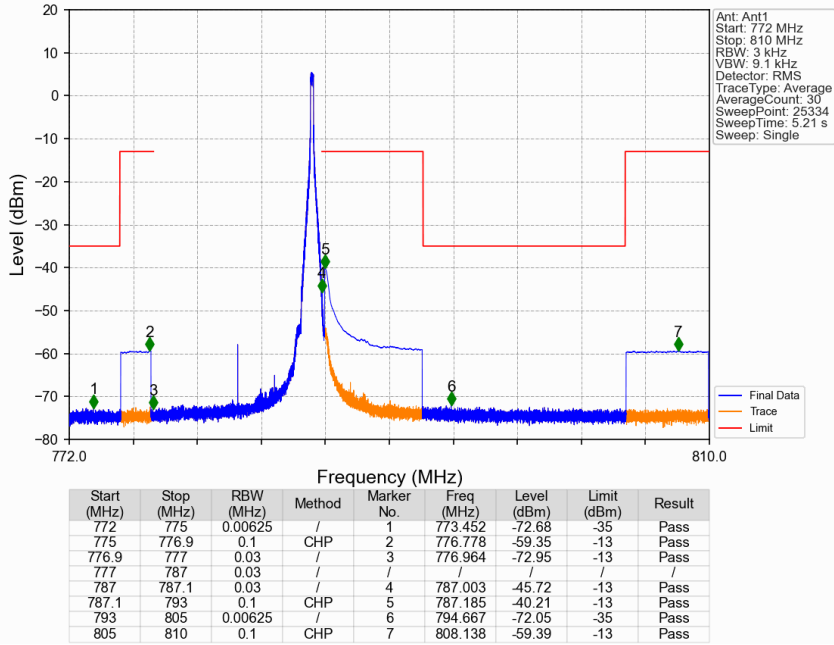
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	760.241	-59.47	-13	Pass
763	775	0.00625	/	2	774.926	-66.66	-35	Pass
775	776.9	0.1	CHP	3	776.850	-35.29	-13	Pass
776.9	777	0.03	/	4	777.000	-46.96	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.045	-44.96	-13	Pass
787.1	792	0.1	CHP	6	787.150	-32.58	-13	Pass



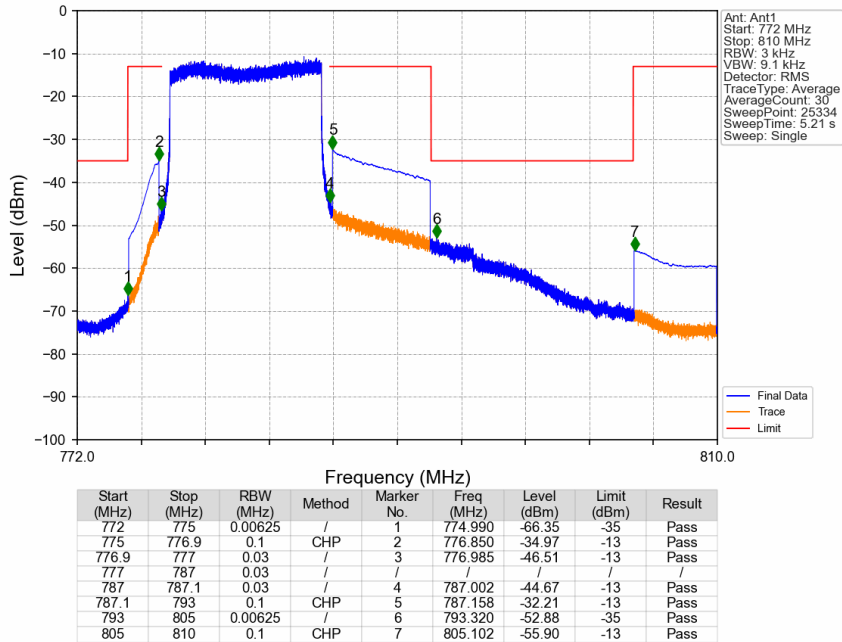
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Band13\_10MHz\_16QAM\_HCH\_782MHz\_RB\_1\_49\_NTNV



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



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6. Field Strength of Spurious Radiation

LTE Band 13-Low channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1554.5	-66.89	-13	-53.89	-70.59	2.04	5.74	Horizontal	Pass
2331.75	-63.26	-13	-50.26	-66.12	2.56	5.42	Horizontal	Pass
3109.0	-62.21	-13	-49.21	-66.37	3.03	7.19	Horizontal	Pass
1554.5	-67.26	-13	-54.26	-70.96	2.04	5.74	Vertical	Pass
2331.75	-63.41	-13	-50.41	-66.27	2.56	5.42	Vertical	Pass
3109.0	-62.57	-13	-49.57	-66.73	3.03	7.19	Vertical	Pass
LTE Band 13-Middle channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1559.5	-66.78	-40	-26.78	-70.47	2.04	5.73	Horizontal	Pass
2339.25	-63.73	-13	-50.73	-66.6	2.56	5.43	Horizontal	Pass
3119.0	-62.14	-13	-49.14	-66.32	3.04	7.22	Horizontal	Pass
1559.5	-66.36	-40	-26.36	-70.05	2.04	5.73	Vertical	Pass
2339.25	-63.66	-13	-50.66	-66.53	2.56	5.43	Vertical	Pass
3119.0	-61.9	-13	-48.9	-66.08	3.04	7.22	Vertical	Pass
LTE Band 13-High channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1564.5	-65.93	-40	-25.93	-69.6	2.05	5.72	Horizontal	Pass
2346.75	-62.91	-13	-49.91	-65.8	2.56	5.45	Horizontal	Pass
3129.0	-62.36	-13	-49.36	-66.55	3.05	7.24	Horizontal	Pass
1564.5	-66.39	-40	-26.39	-70.06	2.05	5.72	Vertical	Pass
2346.75	-64.03	-13	-51.03	-66.92	2.56	5.45	Vertical	Pass
3129.0	-61.02	-13	-48.02	-65.21	3.05	7.24	Vertical	Pass

---End of Attachment---



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