



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

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# Appendix B.11

## LTE Band 13



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Shenzhen Branch Wireless Laboratory

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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 sgs.china@sgs.com



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

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### 1.1 B13\_5MHz\_ERP

#### 1.1.1 Test Result

Band: 13 / Bandwidth: 5MHz / NTNv										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	779.5	1	0	23.29	-4.50	16.64	<=34.77	Pass		
			13	23.27	-4.50	16.62	<=34.77	Pass		
			24	23.21	-4.50	16.56	<=34.77	Pass		
		12	0	22.69	-4.50	16.04	<=34.77	Pass		
			6	22.68	-4.50	16.03	<=34.77	Pass		
			13	22.60	-4.50	15.95	<=34.77	Pass		
		25	0	22.67	-4.50	16.02	<=34.77	Pass		
		782	1	0	23.24	-4.50	16.59	<=34.77	Pass	
				13	23.14	-4.50	16.49	<=34.77	Pass	
	24			23.14	-4.50	16.49	<=34.77	Pass		
	12		0	22.69	-4.50	16.04	<=34.77	Pass		
			6	22.63	-4.50	15.98	<=34.77	Pass		
			13	22.64	-4.50	15.99	<=34.77	Pass		
	25		0	22.72	-4.50	16.07	<=34.77	Pass		
	784.5		1	0	23.21	-4.50	16.56	<=34.77	Pass	
				13	23.13	-4.50	16.48	<=34.77	Pass	
		24		23.17	-4.50	16.52	<=34.77	Pass		
		12	0	22.62	-4.50	15.97	<=34.77	Pass		
			6	22.59	-4.50	15.94	<=34.77	Pass		
			13	22.69	-4.50	16.04	<=34.77	Pass		
		25	0	22.65	-4.50	16.00	<=34.77	Pass		
		16QAM	779.5	1	0	22.60	-4.50	15.95	<=34.77	Pass
					13	22.56	-4.50	15.91	<=34.77	Pass
	24				22.51	-4.50	15.86	<=34.77	Pass	
12	0			21.20	-4.50	14.55	<=34.77	Pass		
	6			21.21	-4.50	14.56	<=34.77	Pass		
	13			21.08	-4.50	14.43	<=34.77	Pass		
25	0		21.20	-4.50	14.55	<=34.77	Pass			
782	1		0	22.88	-4.50	16.23	<=34.77	Pass		
			13	22.85	-4.50	16.20	<=34.77	Pass		
			24	22.83	-4.50	16.18	<=34.77	Pass		
	12		0	21.25	-4.50	14.60	<=34.77	Pass		
			6	21.17	-4.50	14.52	<=34.77	Pass		
			13	21.18	-4.50	14.53	<=34.77	Pass		
	25		0	21.16	-4.50	14.51	<=34.77	Pass		
	784.5		1	0	22.69	-4.50	16.04	<=34.77	Pass	



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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 sgs.china@sgs.com



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			13	22.69	-4.50	16.04	<=34.77	Pass	
			24	22.74	-4.50	16.09	<=34.77	Pass	
		12	0	21.14	-4.50	14.49	<=34.77	Pass	
			6	21.07	-4.50	14.42	<=34.77	Pass	
			13	21.16	-4.50	14.51	<=34.77	Pass	
		25	0	21.16	-4.50	14.51	<=34.77	Pass	
64QAM	779.5	1	0	22.20	-4.50	15.55	<=34.77	Pass	
			13	22.12	-4.50	15.47	<=34.77	Pass	
			24	22.08	-4.50	15.43	<=34.77	Pass	
		12	0	21.16	-4.50	14.51	<=34.77	Pass	
			6	21.16	-4.50	14.51	<=34.77	Pass	
			13	21.09	-4.50	14.44	<=34.77	Pass	
		25	0	21.18	-4.50	14.53	<=34.77	Pass	
		782	1	0	22.29	-4.50	15.64	<=34.77	Pass
				13	22.26	-4.50	15.61	<=34.77	Pass
	24			22.24	-4.50	15.59	<=34.77	Pass	
	12		0	21.27	-4.50	14.62	<=34.77	Pass	
			6	21.19	-4.50	14.54	<=34.77	Pass	
			13	21.16	-4.50	14.51	<=34.77	Pass	
	25		0	21.26	-4.50	14.61	<=34.77	Pass	
	784.5		1	0	22.34	-4.50	15.69	<=34.77	Pass
				13	22.26	-4.50	15.61	<=34.77	Pass
		24		22.30	-4.50	15.65	<=34.77	Pass	
		12	0	21.26	-4.50	14.61	<=34.77	Pass	
			6	21.21	-4.50	14.56	<=34.77	Pass	
			13	21.28	-4.50	14.63	<=34.77	Pass	
		25	0	21.16	-4.50	14.51	<=34.77	Pass	



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## 1.2 B13\_10MHz\_ERP

### 1.2.1 Test Result

Band: 13 / Bandwidth: 10MHz / NTN										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	782	1	0	23.24	-4.50	16.59	<=34.77	Pass		
			25	23.18	-4.50	16.53	<=34.77	Pass		
			49	23.16	-4.50	16.51	<=34.77	Pass		
		25	0	22.79	-4.50	16.14	<=34.77	Pass		
			13	22.68	-4.50	16.03	<=34.77	Pass		
			25	22.69	-4.50	16.04	<=34.77	Pass		
		50	0	22.77	-4.50	16.12	<=34.77	Pass		
		16QAM	782	1	0	23.30	-4.50	16.65	<=34.77	Pass
					25	23.12	-4.50	16.47	<=34.77	Pass
49	23.21				-4.50	16.56	<=34.77	Pass		
25	0			21.35	-4.50	14.70	<=34.77	Pass		
	13			21.19	-4.50	14.54	<=34.77	Pass		
	25			21.24	-4.50	14.59	<=34.77	Pass		
50	0			21.24	-4.50	14.59	<=34.77	Pass		
64QAM	782			1	0	22.48	-4.50	15.83	<=34.77	Pass
					25	22.40	-4.50	15.75	<=34.77	Pass
		49	22.40		-4.50	15.75	<=34.77	Pass		
		25	0	21.30	-4.50	14.65	<=34.77	Pass		
			13	21.20	-4.50	14.55	<=34.77	Pass		
			25	21.24	-4.50	14.59	<=34.77	Pass		
		50	0	21.30	-4.50	14.65	<=34.77	Pass		



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## 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	3.91	-4.583	-0.0059	/	Pass	
					3.5	-3.933	-0.0050	/	Pass	
					4.5	-5.784	-0.0074	/	Pass	
				-30	3.91	-1.369	-0.0018	/	Pass	
					-20	3.91	-2.000	-0.0026	/	Pass
						-10	3.91	-1.395	-0.0018	/
				0	3.91	-0.773	-0.0010	/	Pass	
					10	3.91	-2.532	-0.0032	/	Pass
					30	3.91	-2.436	-0.0031	/	Pass
	40	3.91	-4.678		-0.0060	/	Pass			
	50	3.91	2.448		0.0031	/	Pass			
	782	25	0	20	3.91	2.009	0.0026	/	Pass	
					3.5	-3.776	-0.0048	/	Pass	
					4.5	-1.622	-0.0021	/	Pass	
				-30	3.91	-3.145	-0.0040	/	Pass	
					-20	3.91	-1.251	-0.0016	/	Pass
						-10	3.91	-4.755	-0.0061	/
				0	3.91	-5.788	-0.0074	/	Pass	
					10	3.91	-1.316	-0.0017	/	Pass
					30	3.91	-5.080	-0.0065	/	Pass
	40	3.91	0.230		0.0003	/	Pass			
	50	3.91	-3.140		-0.0040	/	Pass			
	784.5	25	0	20	3.91	-2.503	-0.0032	/	Pass	
					3.5	0.265	0.0003	/	Pass	
					4.5	0.795	0.0010	/	Pass	
				-30	3.91	-3.042	-0.0039	/	Pass	
					-20	3.91	-3.207	-0.0041	/	Pass
-10						3.91	-1.646	-0.0021	/	Pass
0				3.91	-0.874	-0.0011	/	Pass		
				10	3.91	-0.184	-0.0002	/	Pass	
				30	3.91	0.201	0.0003	/	Pass	
	40	3.91	-4.005	-0.0051	/	Pass				
	50	3.91	0.076	0.0001	/	Pass				
16QAM	779.5	25	0	20	3.91	-1.940	-0.0025	/	Pass	
					3.5	-0.635	-0.0008	/	Pass	
					4.5	-1.318	-0.0017	/	Pass	
				-30	3.91	-0.490	-0.0006	/	Pass	
					-20	3.91	-5.587	-0.0072	/	Pass
-10	3.91	-2.473	-0.0032	/	Pass					



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64QAM				0	3.91	-1.305	-0.0017	/	Pass		
				10	3.91	-5.859	-0.0075	/	Pass		
				30	3.91	1.515	0.0019	/	Pass		
				40	3.91	-3.313	-0.0043	/	Pass		
				50	3.91	-3.258	-0.0042	/	Pass		
	782	25	0	20	3.91	-3.733	-0.0048	/	Pass		
					3.5	-2.561	-0.0033	/	Pass		
					4.5	-2.341	-0.0030	/	Pass		
				-30	3.91	-2.449	-0.0031	/	Pass		
				-20	3.91	-1.998	-0.0026	/	Pass		
				-10	3.91	-5.443	-0.0070	/	Pass		
				0	3.91	-2.483	-0.0032	/	Pass		
				10	3.91	-1.649	-0.0021	/	Pass		
				30	3.91	-2.831	-0.0036	/	Pass		
				40	3.91	-5.591	-0.0071	/	Pass		
	50	3.91	-1.603	-0.0020	/	Pass					
	784.5	25	0	20	3.91	-2.558	-0.0033	/	Pass		
					3.5	-3.019	-0.0038	/	Pass		
					4.5	-4.392	-0.0056	/	Pass		
				-30	3.91	-0.173	-0.0002	/	Pass		
				-20	3.91	-1.514	-0.0019	/	Pass		
				-10	3.91	-0.670	-0.0009	/	Pass		
				0	3.91	-4.334	-0.0055	/	Pass		
				10	3.91	-0.252	-0.0003	/	Pass		
				30	3.91	-0.138	-0.0002	/	Pass		
				40	3.91	0.061	0.0001	/	Pass		
	50	3.91	0.343	0.0004	/	Pass					
	779.5	25	0	20	3.91	-3.221	-0.0041	/	Pass		
					3.5	-2.583	-0.0033	/	Pass		
					4.5	-1.352	-0.0017	/	Pass		
-30				3.91	-1.154	-0.0015	/	Pass			
-20				3.91	-2.109	-0.0027	/	Pass			
-10				3.91	-2.416	-0.0031	/	Pass			
0				3.91	-1.855	-0.0024	/	Pass			
10				3.91	-2.042	-0.0026	/	Pass			
30				3.91	-2.651	-0.0034	/	Pass			
40				3.91	-3.941	-0.0051	/	Pass			
50				3.91	-3.039	-0.0039	/	Pass			
782				25	0	20	3.91	-1.845	-0.0024	/	Pass
							3.5	-2.041	-0.0026	/	Pass
							4.5	-1.807	-0.0023	/	Pass
						-30	3.91	-5.657	-0.0072	/	Pass
	-20	3.91	-1.885			-0.0024	/	Pass			
	-10	3.91	-7.258			-0.0093	/	Pass			
	0	3.91	-3.669			-0.0047	/	Pass			
	10	3.91	-3.505			-0.0045	/	Pass			
	30	3.91	0.012			0.0000	/	Pass			
	40	3.91	-4.652			-0.0059	/	Pass			
50	3.91	-3.066	-0.0039	/	Pass						



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784.5	25	0	20	3.91	-5.119	-0.0065	/	Pass
				3.5	-4.606	-0.0059	/	Pass
				4.5	-4.183	-0.0053	/	Pass
			-30	3.91	-4.192	-0.0053	/	Pass
			-20	3.91	-3.389	-0.0043	/	Pass
			-10	3.91	0.056	0.0001	/	Pass
			0	3.91	-4.253	-0.0054	/	Pass
			10	3.91	-4.476	-0.0057	/	Pass
			30	3.91	0.546	0.0007	/	Pass
			40	3.91	-3.790	-0.0048	/	Pass
			50	3.91	-0.802	-0.0010	/	Pass



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## 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	3.91	0.821	0.0010	/	Pass		
					3.5	-4.058	-0.0052	/	Pass		
					4.5	-3.667	-0.0047	/	Pass		
				-30	3.91	-1.269	-0.0016	/	Pass		
					-20	3.91	-0.435	-0.0006	/	Pass	
						-10	3.91	-0.113	-0.0001	/	Pass
							0	3.91	-3.459	-0.0044	/
					10	3.91	-4.529	-0.0058	/	Pass	
						30	3.91	-2.210	-0.0028	/	Pass
							40	3.91	-4.851	-0.0062	/
					50	3.91	-1.994	-0.0025	/	Pass	
					16QAM	782	50	0	20	3.91	0.566
3.5	-3.466	-0.0044	/	Pass							
4.5	-3.289	-0.0042	/	Pass							
-30	3.91	-0.054	-0.0001	/					Pass		
	-20	3.91	-4.235	-0.0054					/	Pass	
		-10	3.91	-3.904					-0.0050	/	Pass
			0	3.91					-3.900	-0.0050	/
	10	3.91	0.090	0.0001					/	Pass	
		30	3.91	-4.349					-0.0056	/	Pass
			40	3.91					-3.635	-0.0046	/
	50	3.91	-3.945	-0.0050					/	Pass	
	64QAM	782	50	0					20	3.91	0.203
3.5					-4.102	-0.0052	/	Pass			
4.5					-1.611	-0.0021	/	Pass			
-30					3.91	-4.131	-0.0053	/	Pass		
					-20	3.91	0.233	0.0003	/	Pass	
						-10	3.91	-5.888	-0.0075	/	Pass
							0	3.91	-5.248	-0.0067	/
					10	3.91	-0.940	-0.0012	/	Pass	
						30	3.91	-5.516	-0.0071	/	Pass
							40	3.91	-1.544	-0.0020	/
					50	3.91	-0.305	-0.0004	/	Pass	



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## 3. 99% & 26dB Bandwidth

### 3.1 Band13\_OBW

#### 3.1.1 Test Result

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	4.538	/	Pass
		782	25	0	4.543	/	Pass
		784.5	25	0	4.557	/	Pass
	16QAM	779.5	25	0	4.513	/	Pass
		782	25	0	4.575	/	Pass
		784.5	25	0	4.578	/	Pass
	64QAM	779.5	25	0	4.522	/	Pass
		782	25	0	4.574	/	Pass
		784.5	25	0	4.557	/	Pass
10	QPSK	782	50	0	9.093	/	Pass
	16QAM	782	50	0	9.083	/	Pass
	64QAM	782	50	0	9.050	/	Pass



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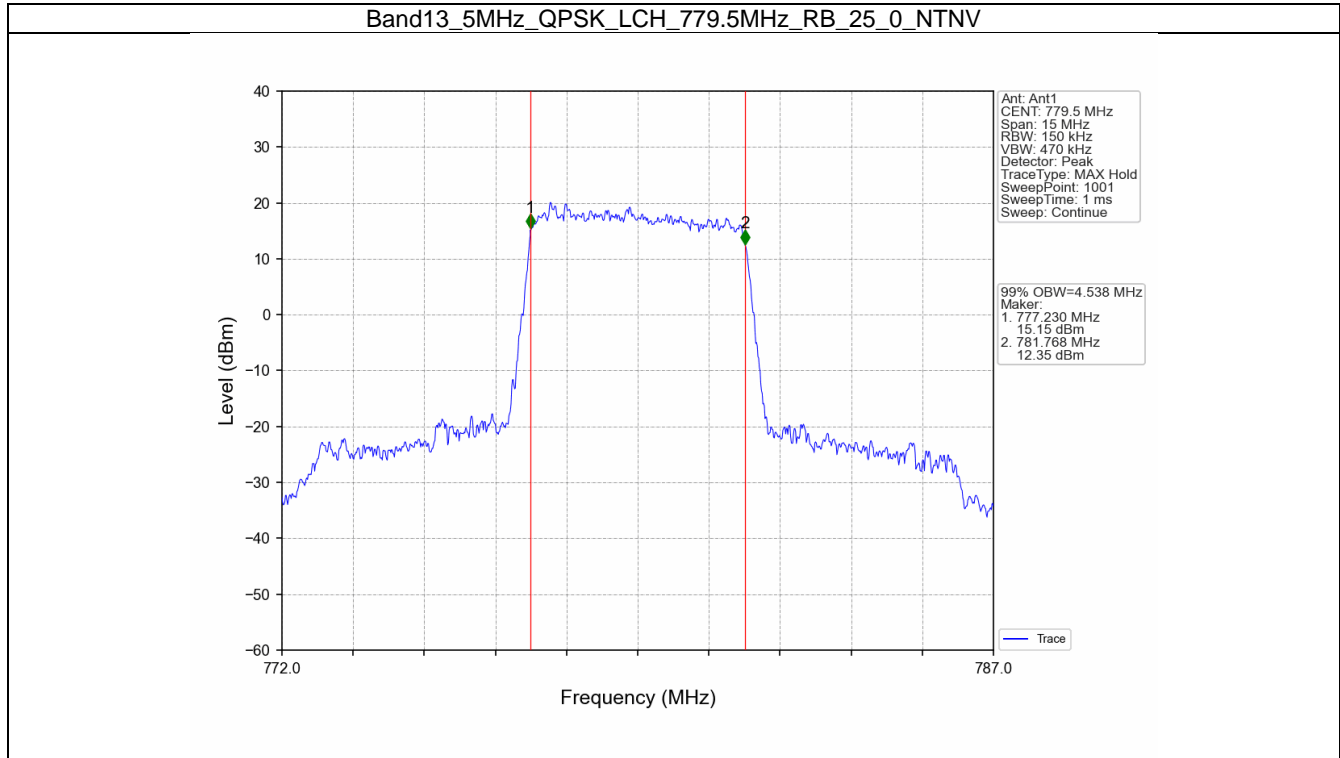
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3.1.2 Test Graph



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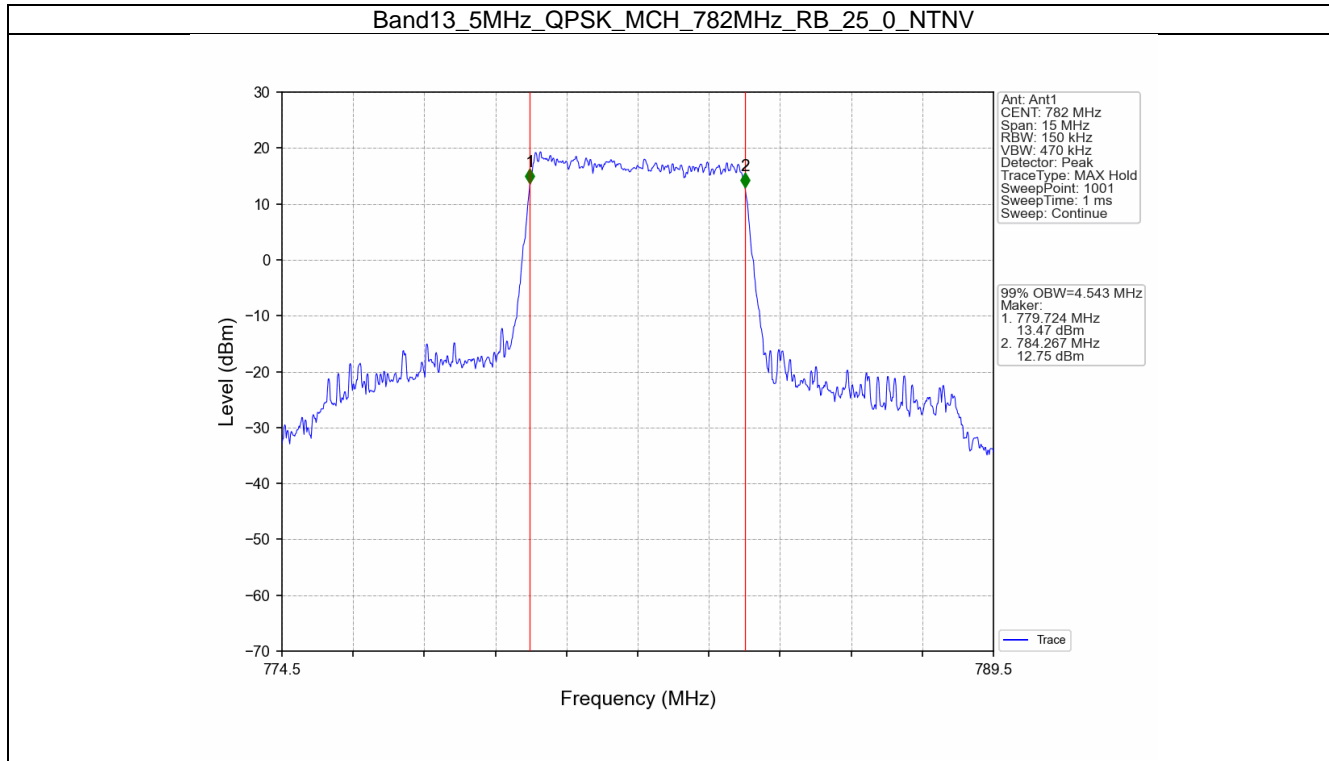


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Wireless Laboratory

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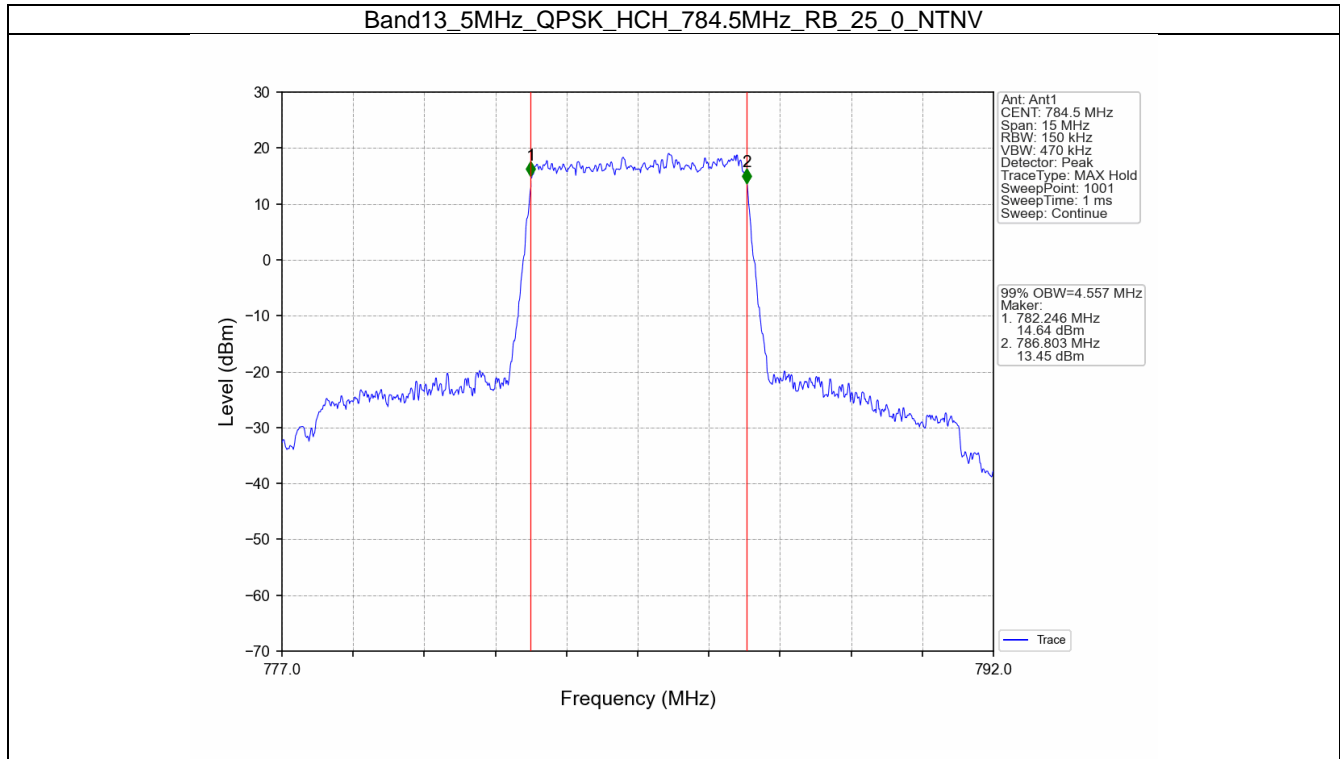


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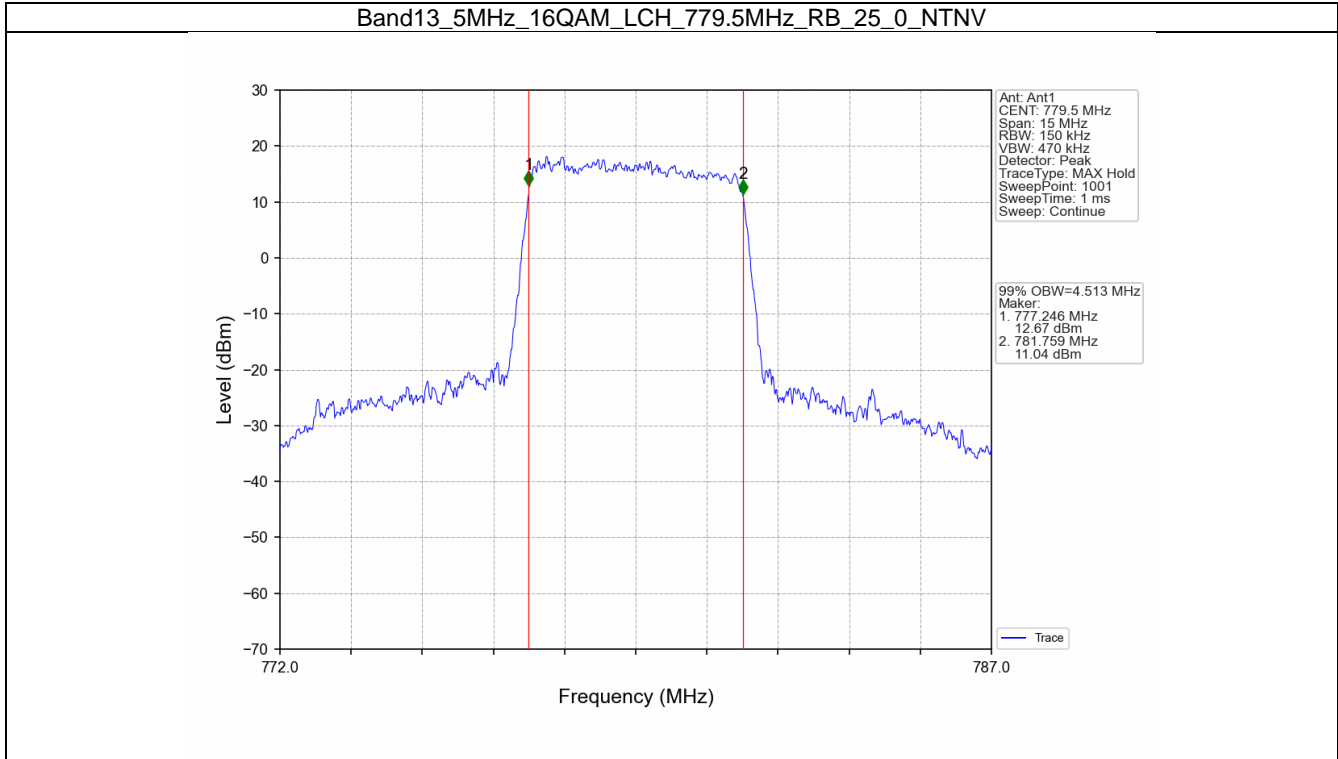
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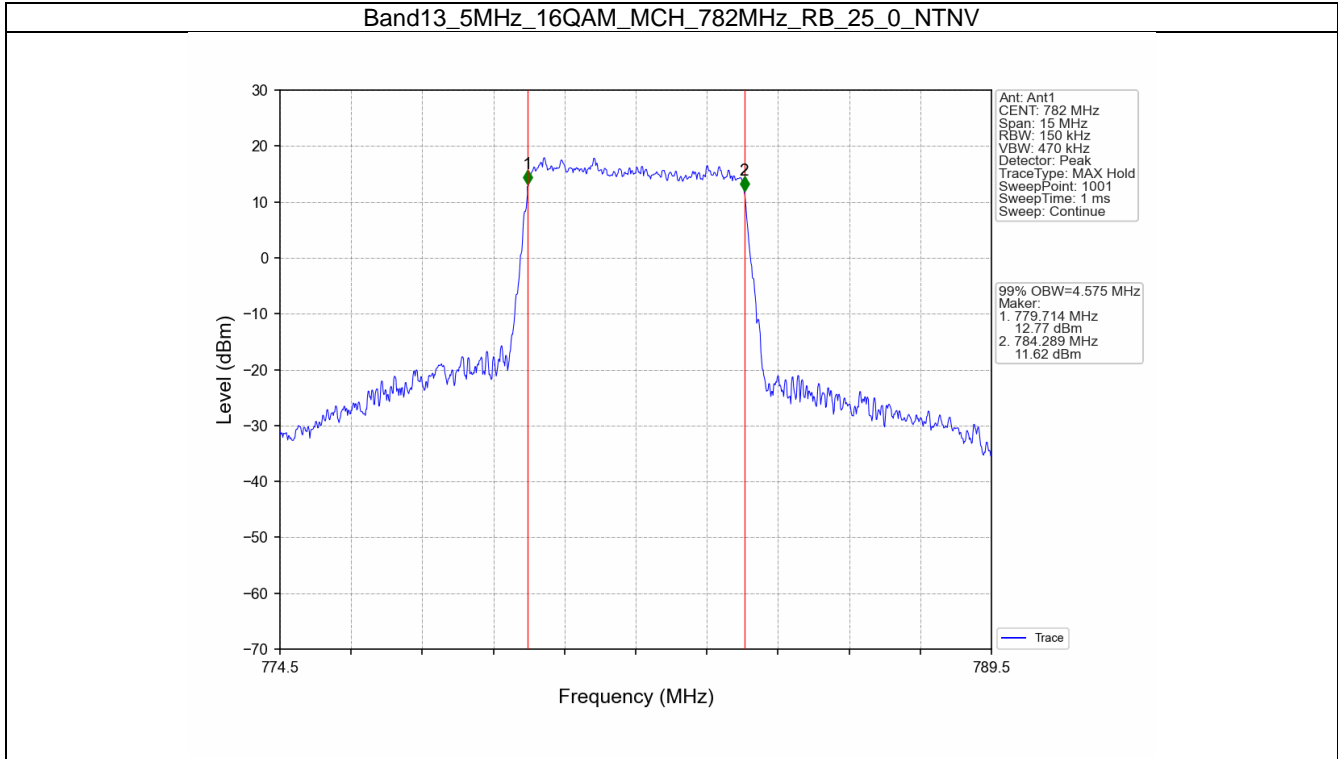
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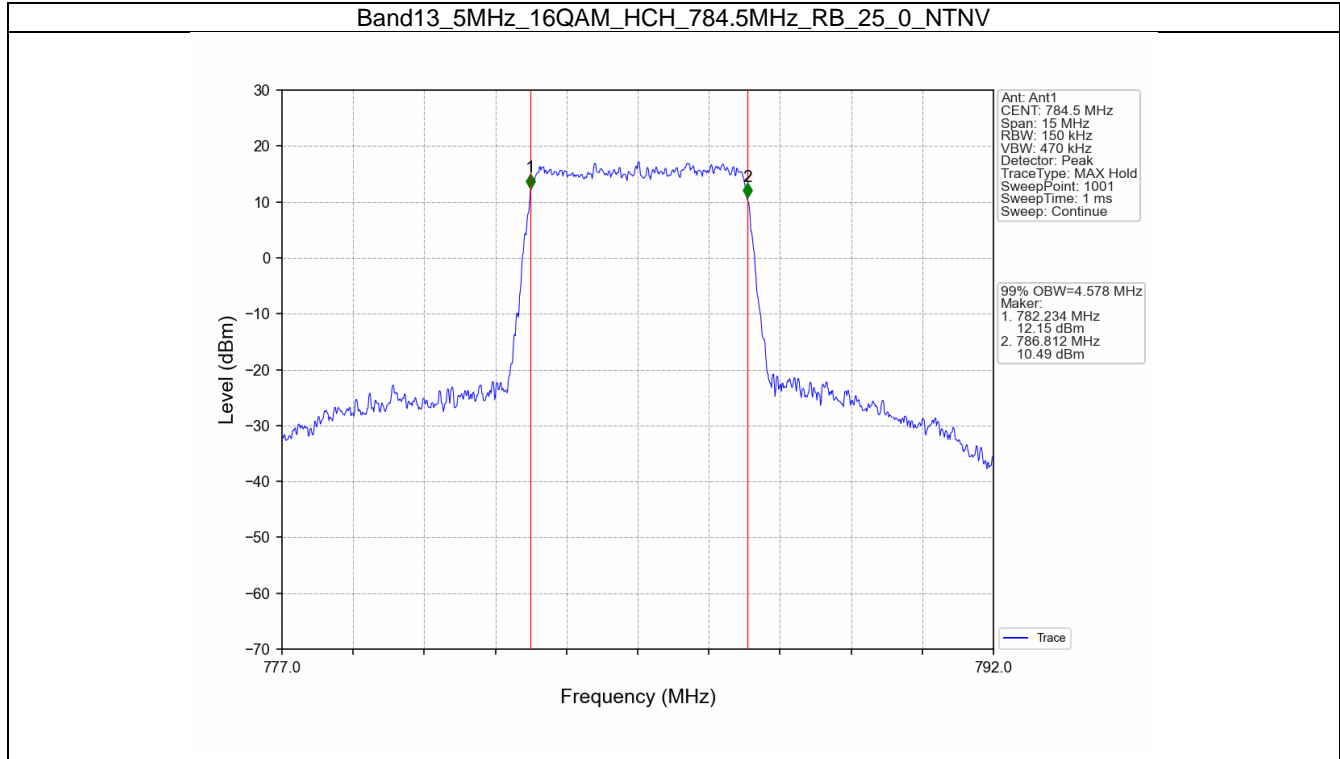
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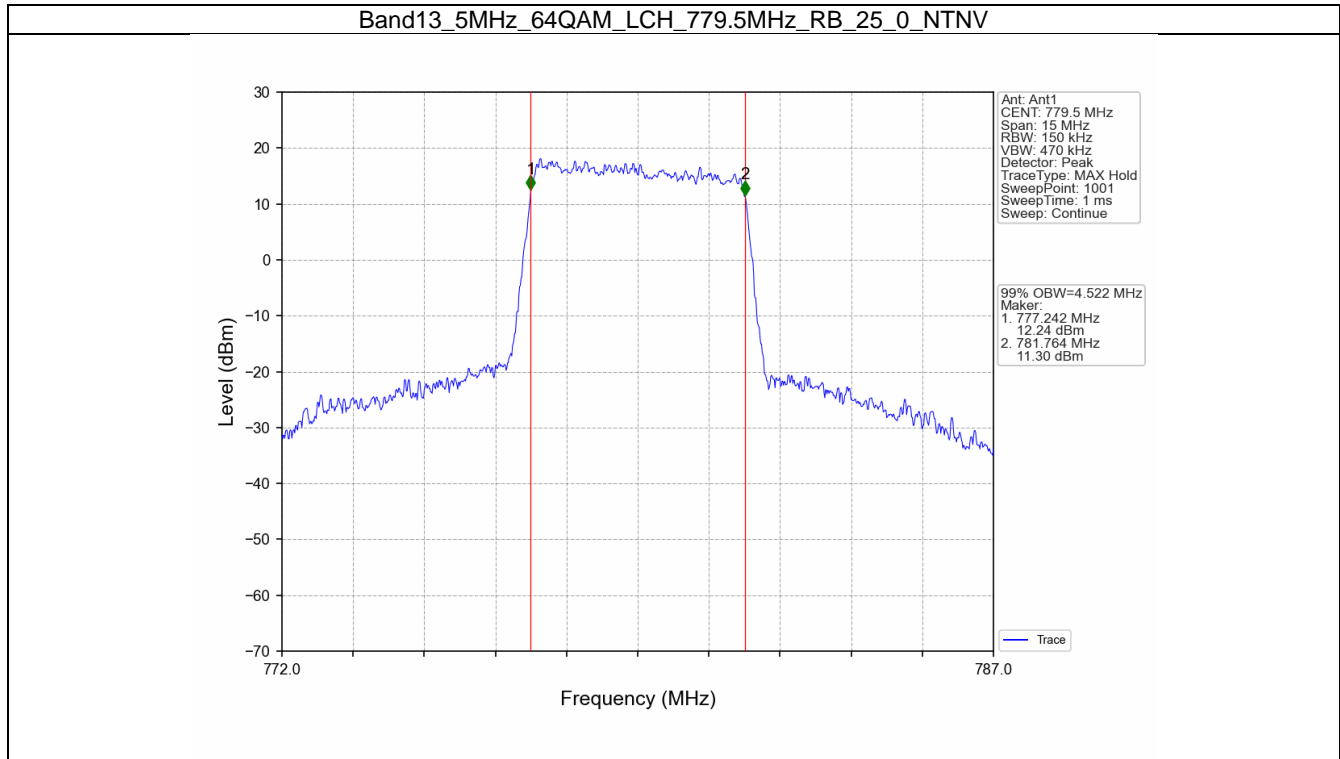


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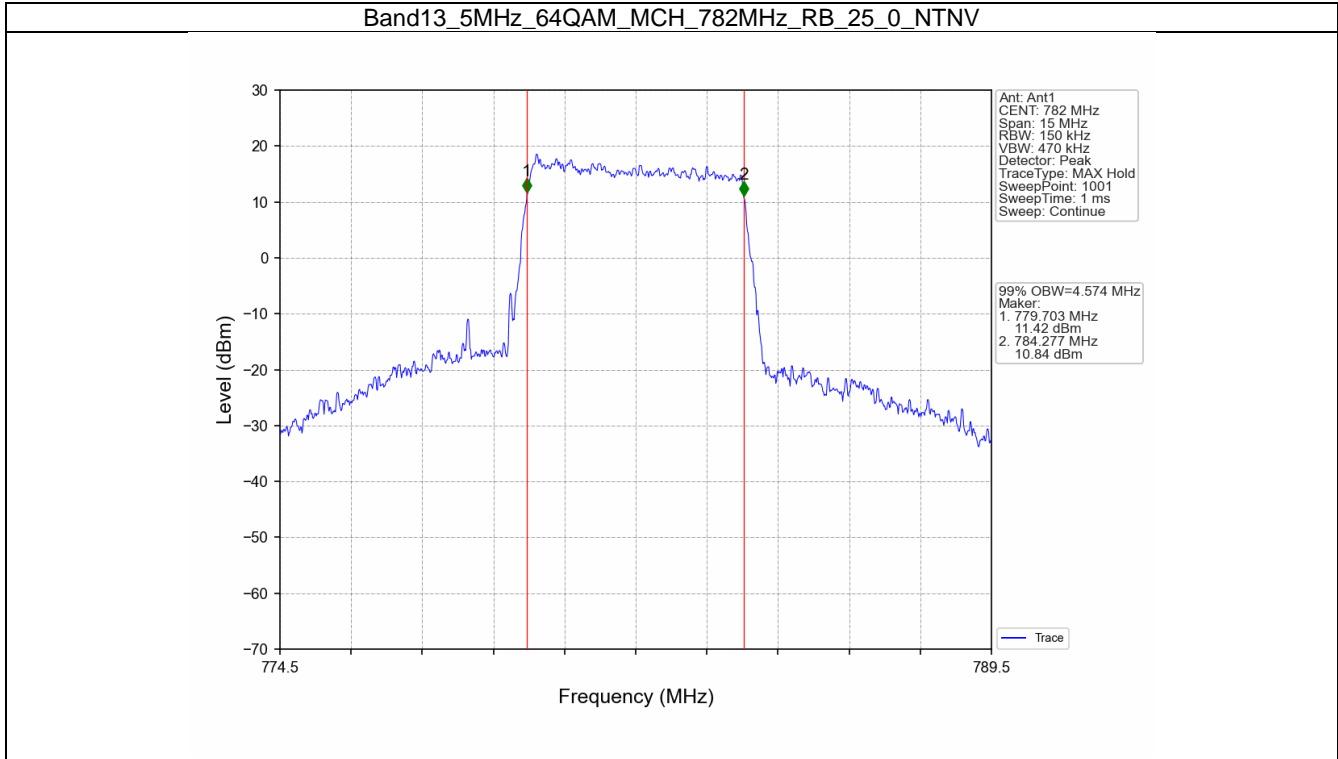
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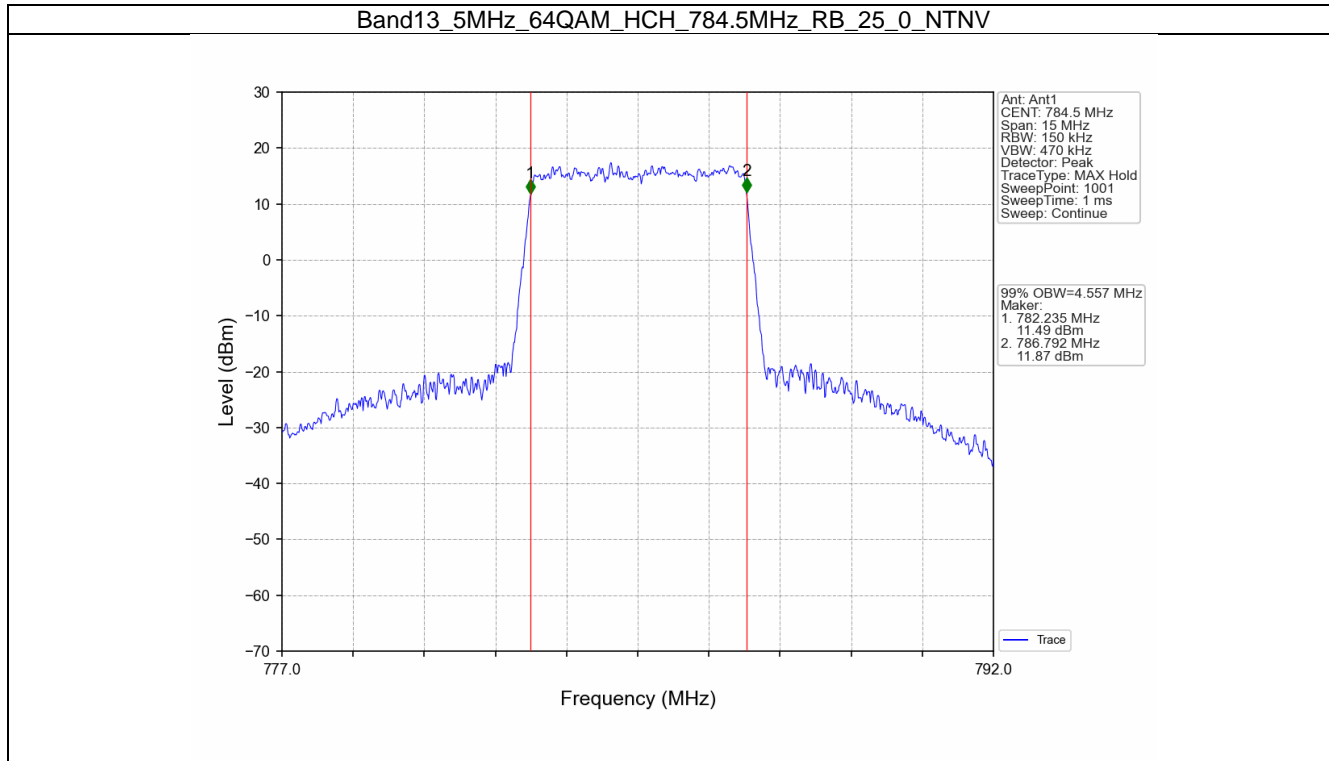


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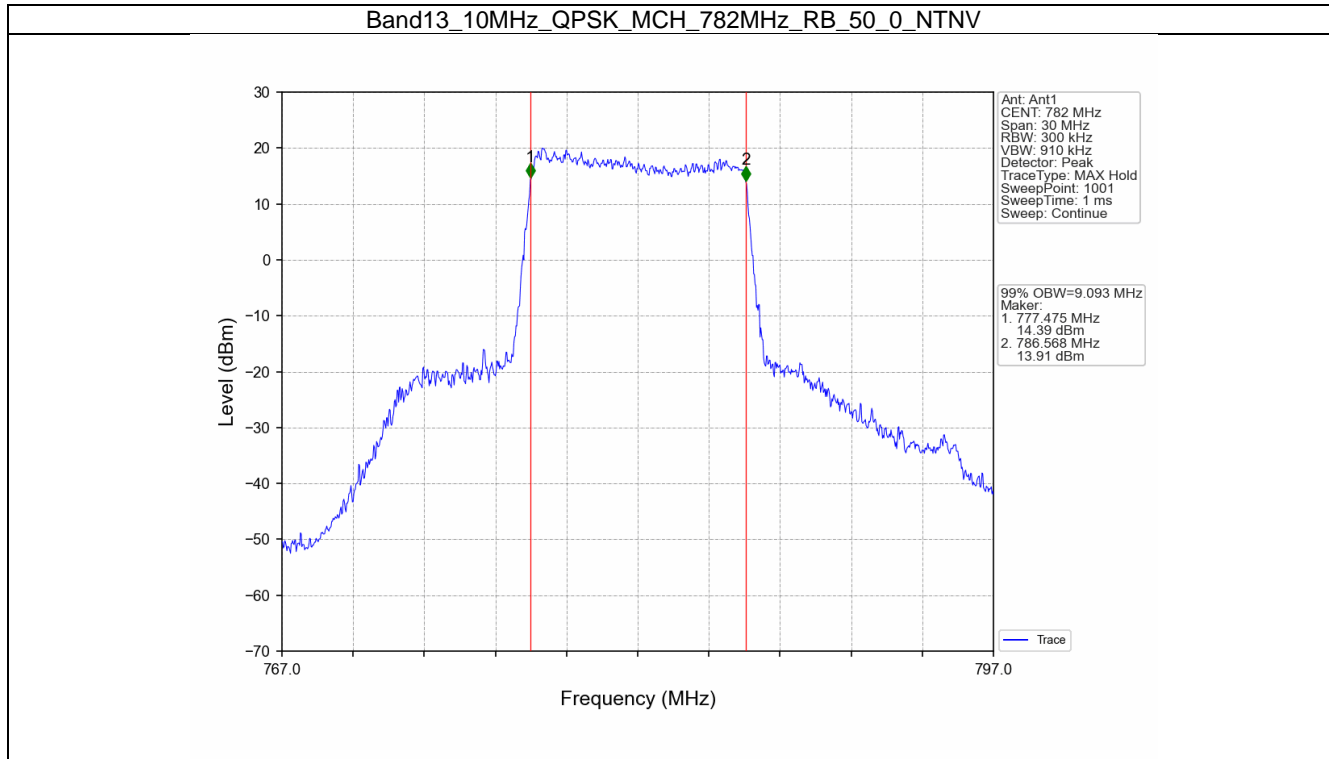


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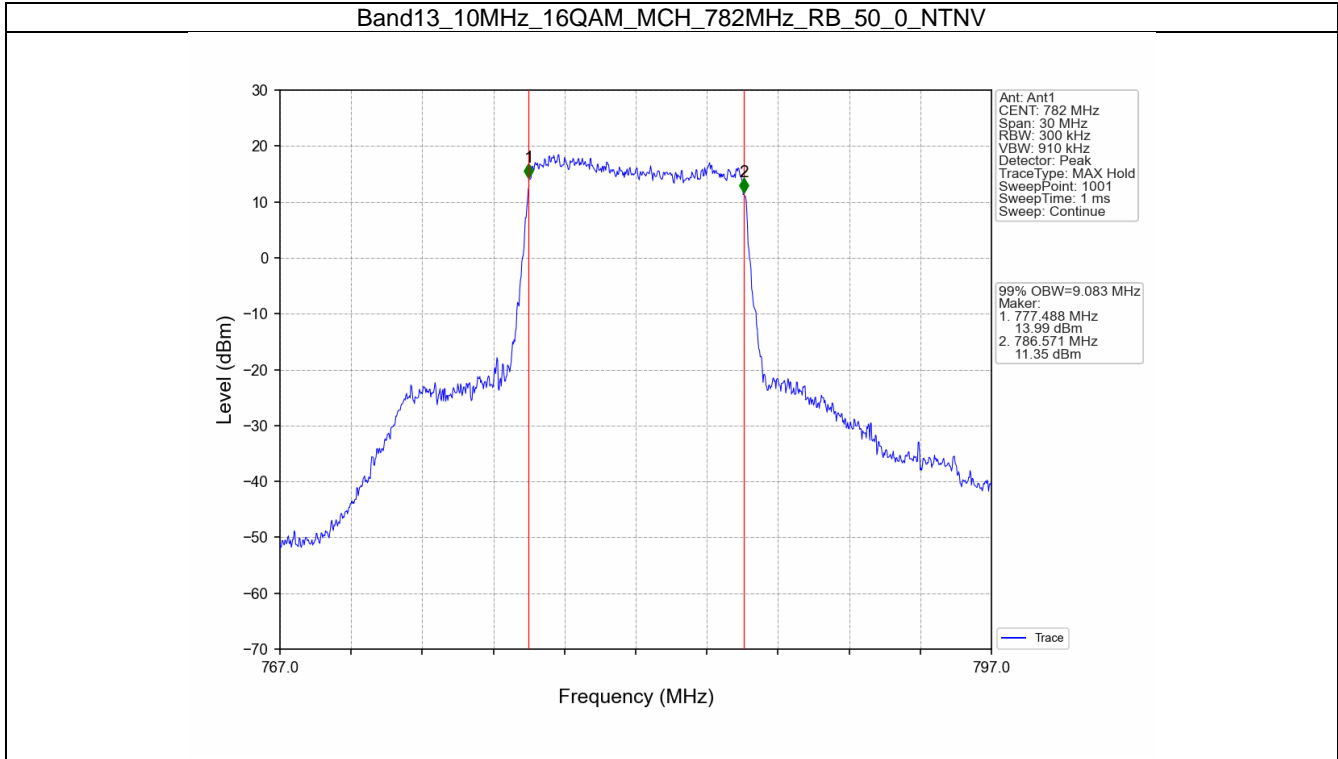
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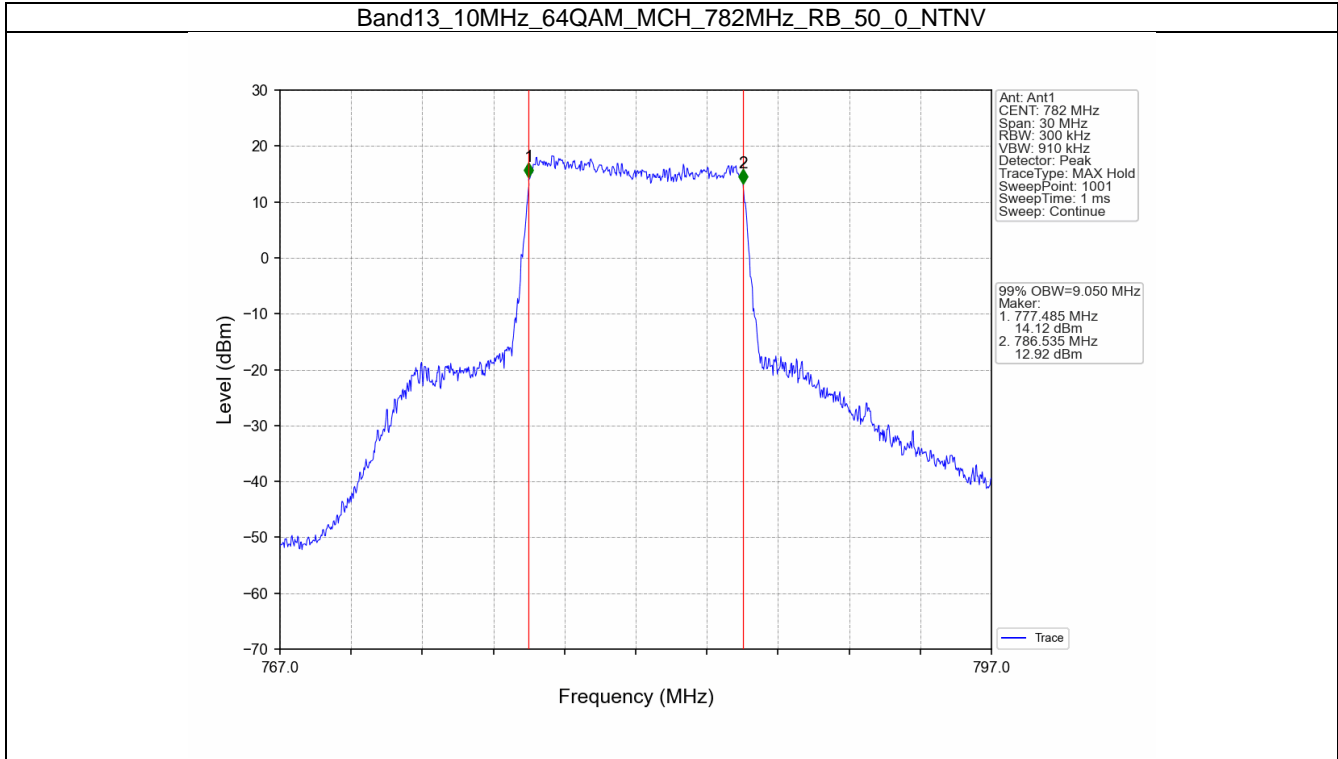
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## 3.2 Band13\_XDB

### 3.2.1 Test Result

Band: 13 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	779.5	25	0	5.043	/	Pass
		782	25	0	5.026	/	Pass
		784.5	25	0	5.018	/	Pass
	16QAM	779.5	25	0	5.023	/	Pass
		782	25	0	5.070	/	Pass
		784.5	25	0	5.064	/	Pass
	64QAM	779.5	25	0	5.012	/	Pass
		782	25	0	5.200	/	Pass
		784.5	25	0	5.062	/	Pass
10	QPSK	782	50	0	9.954	/	Pass
	16QAM	782	50	0	9.858	/	Pass
	64QAM	782	50	0	9.930	/	Pass



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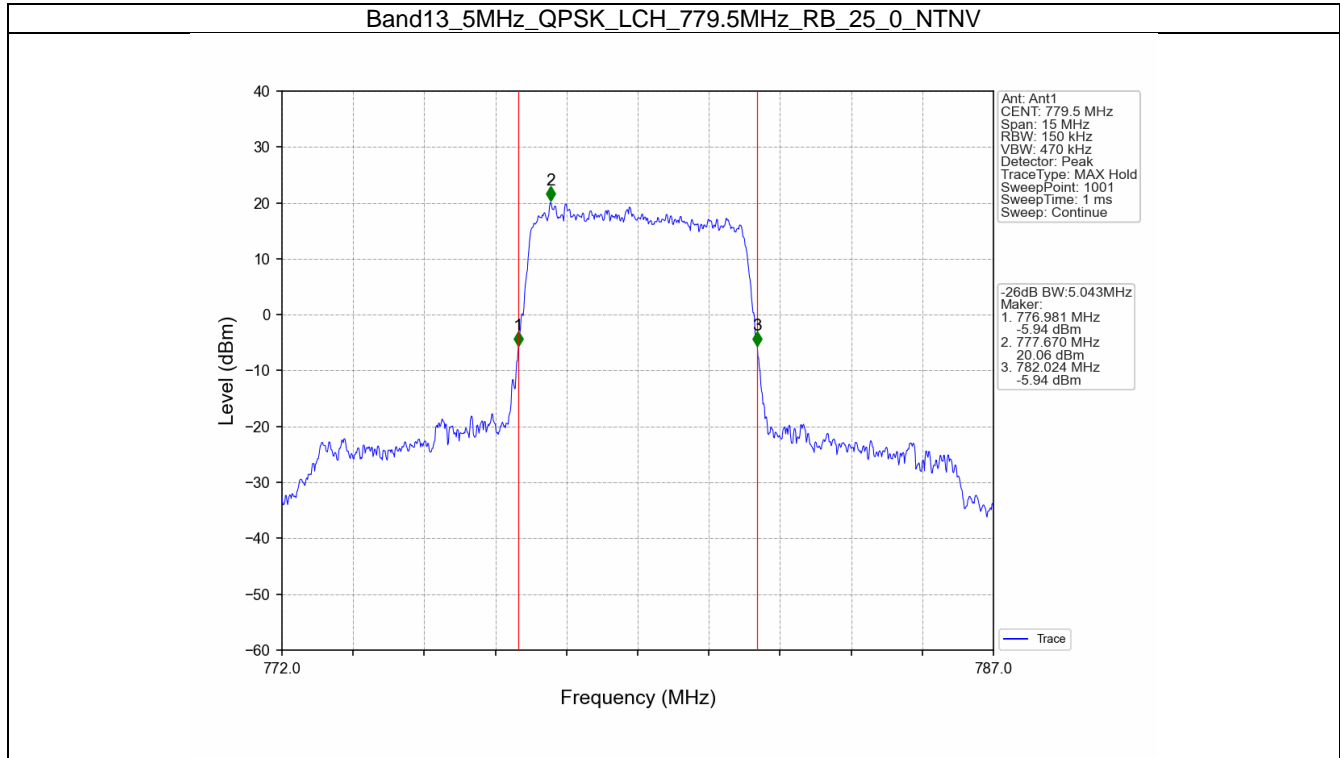
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3.2.2 Test Graph



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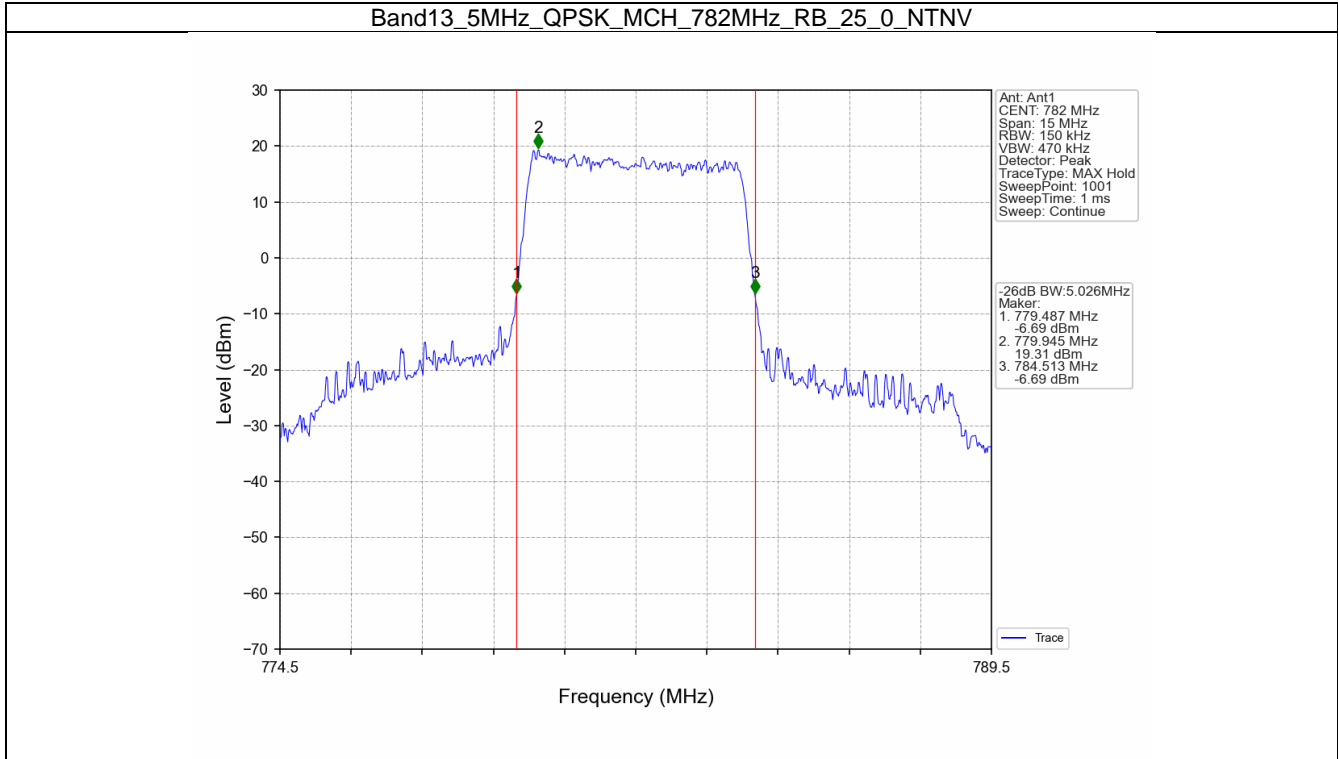
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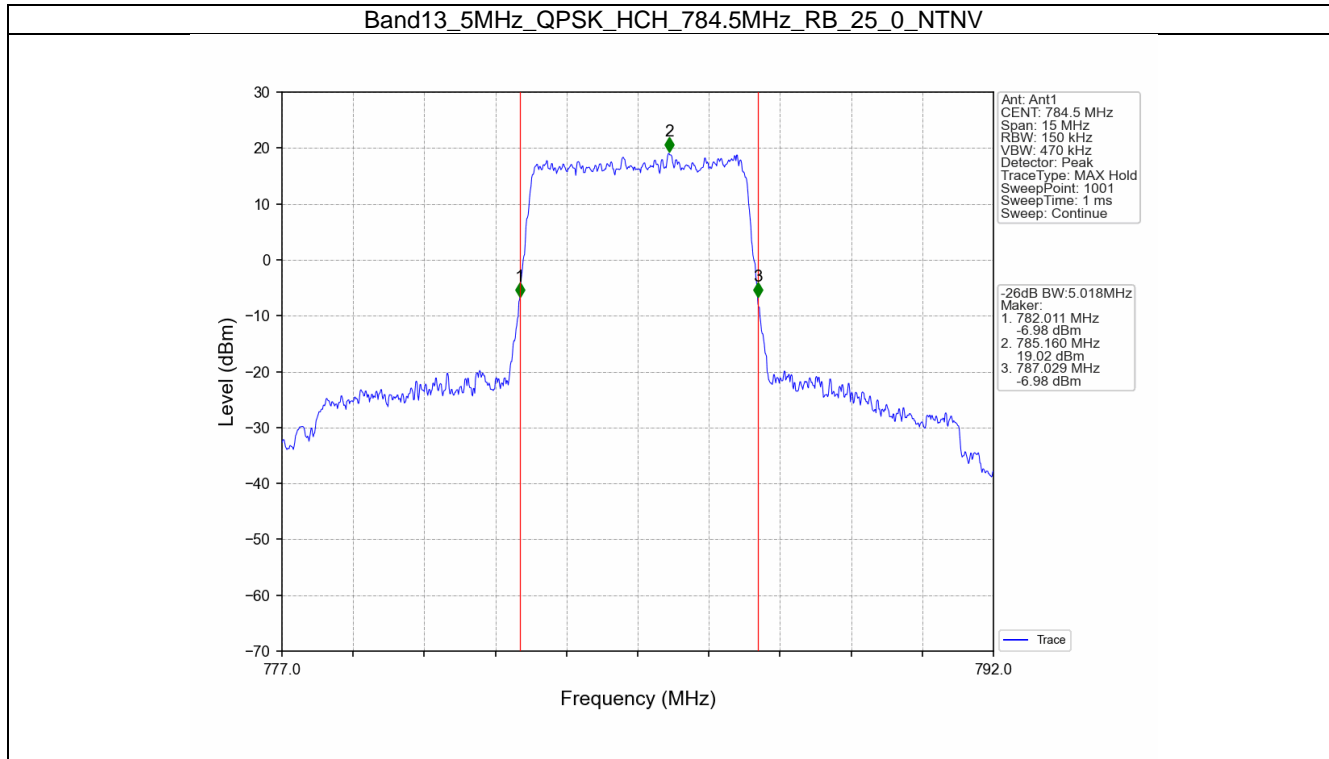


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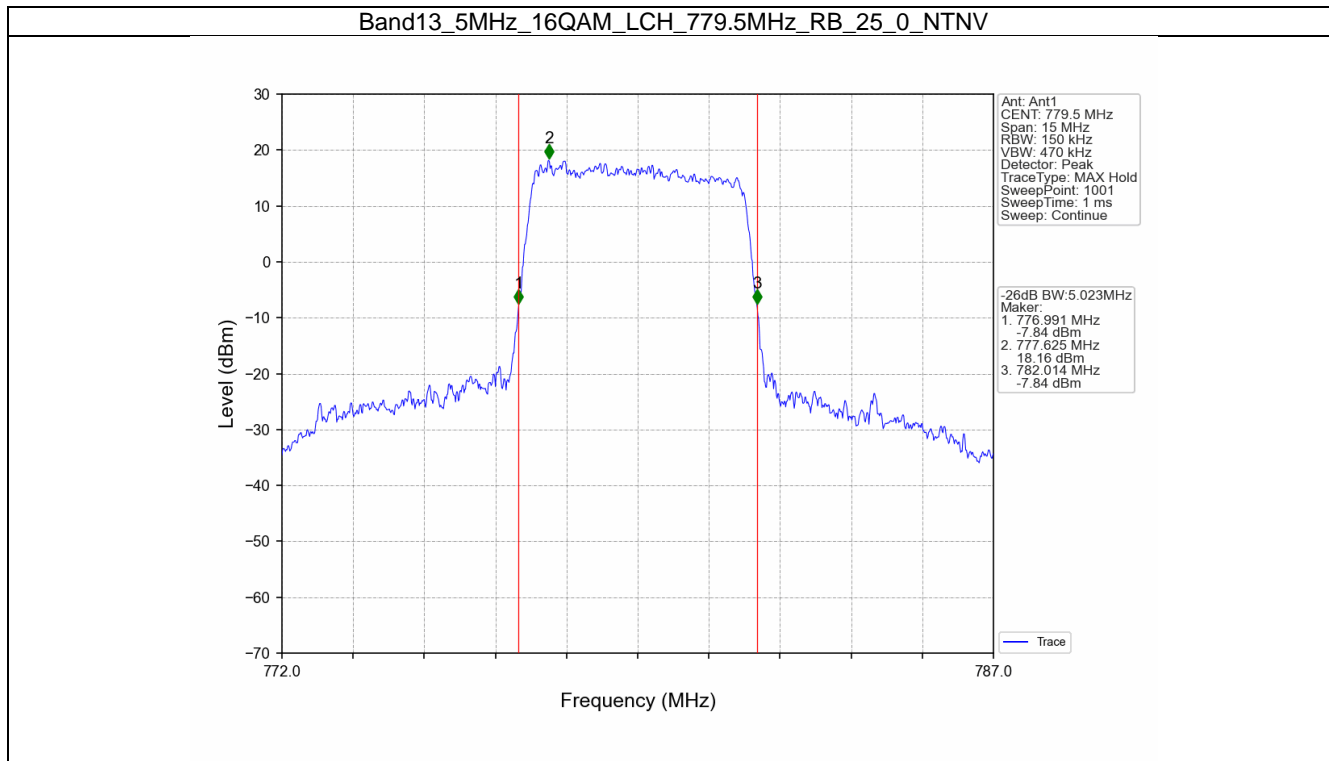


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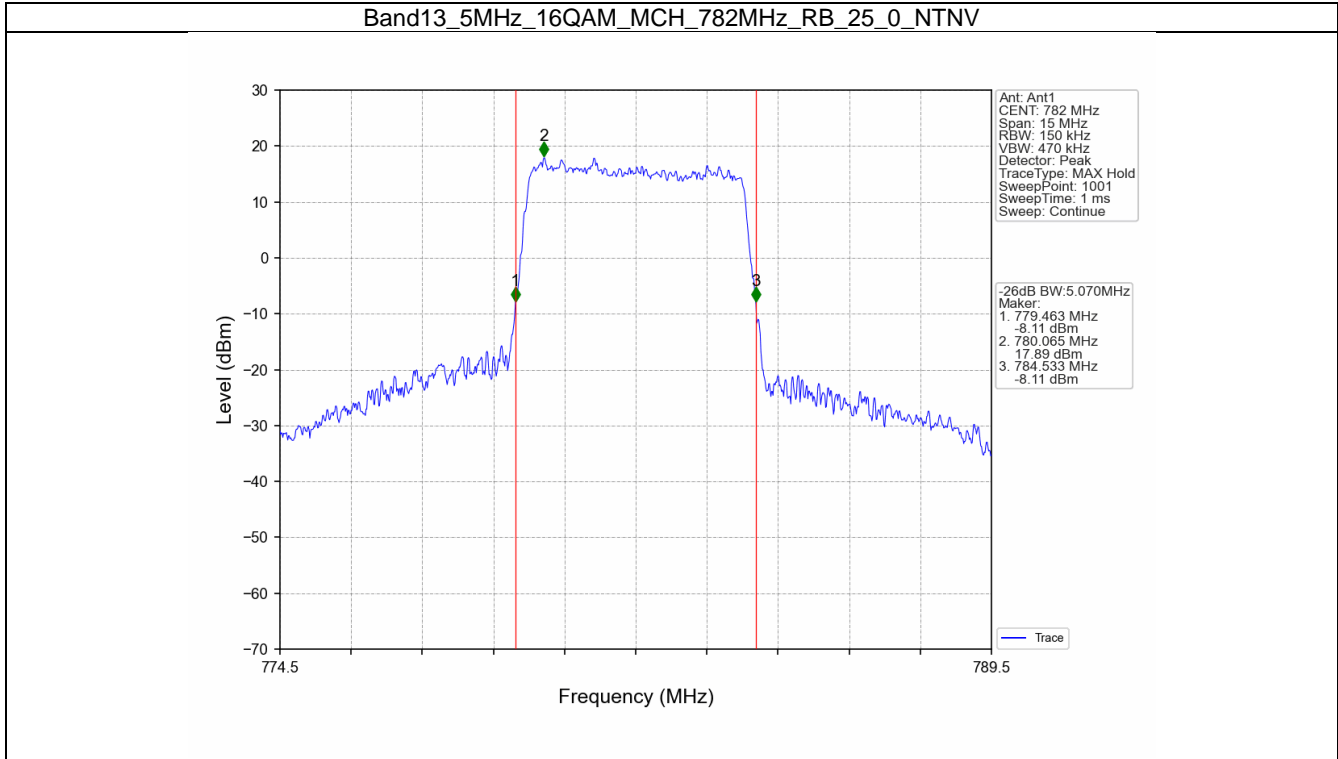
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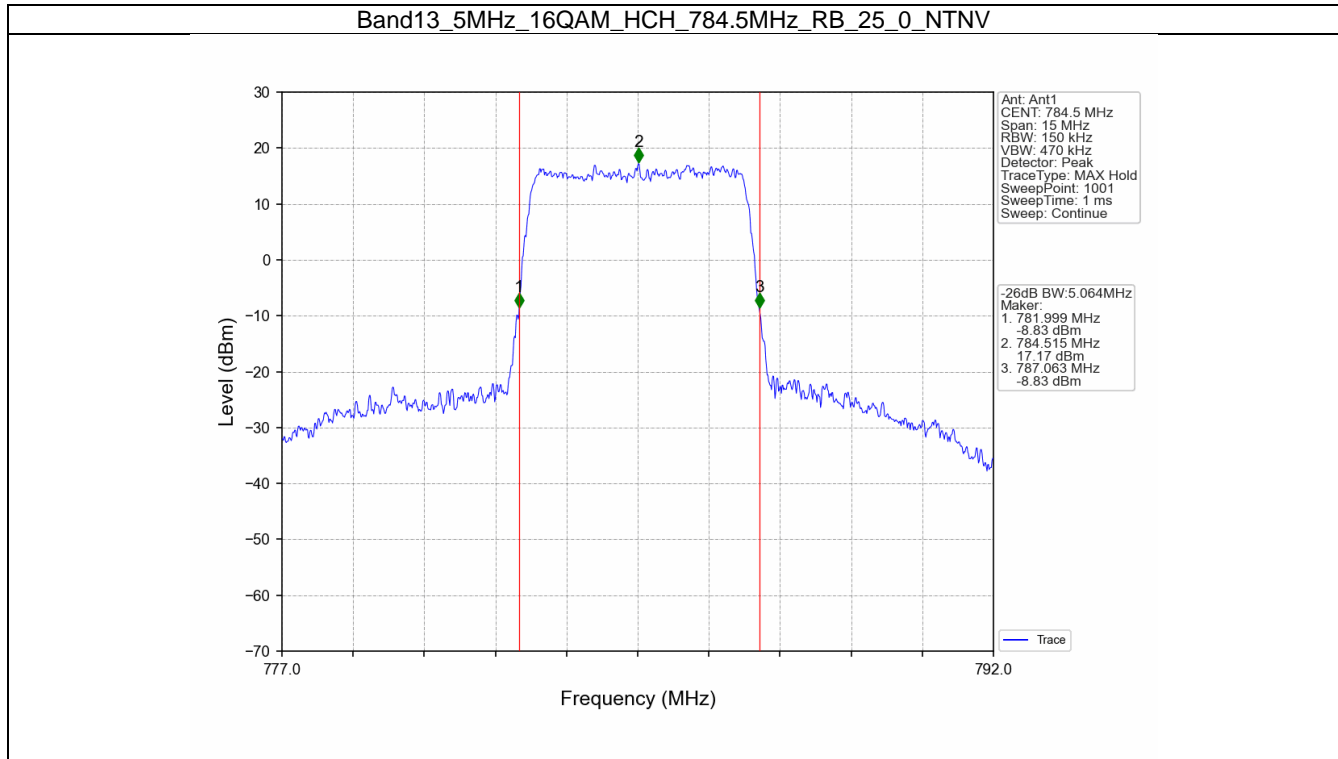


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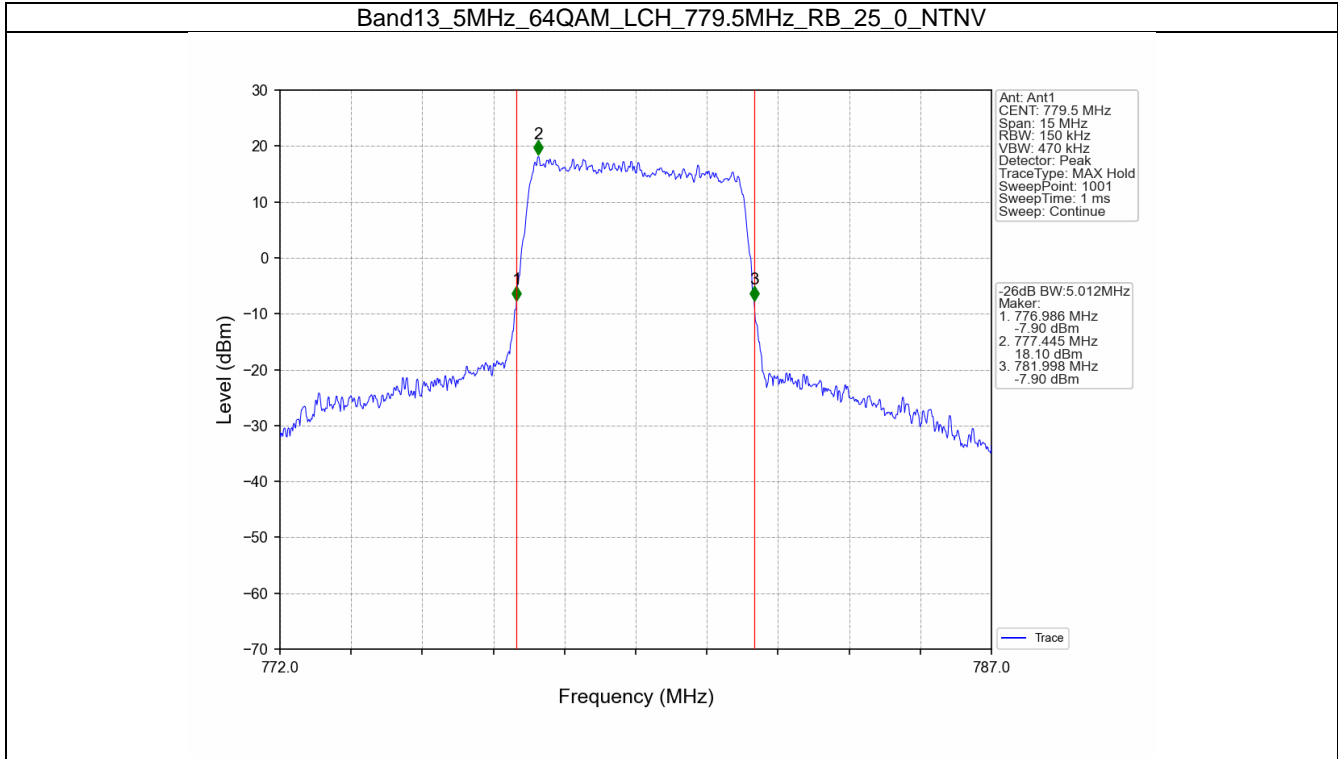
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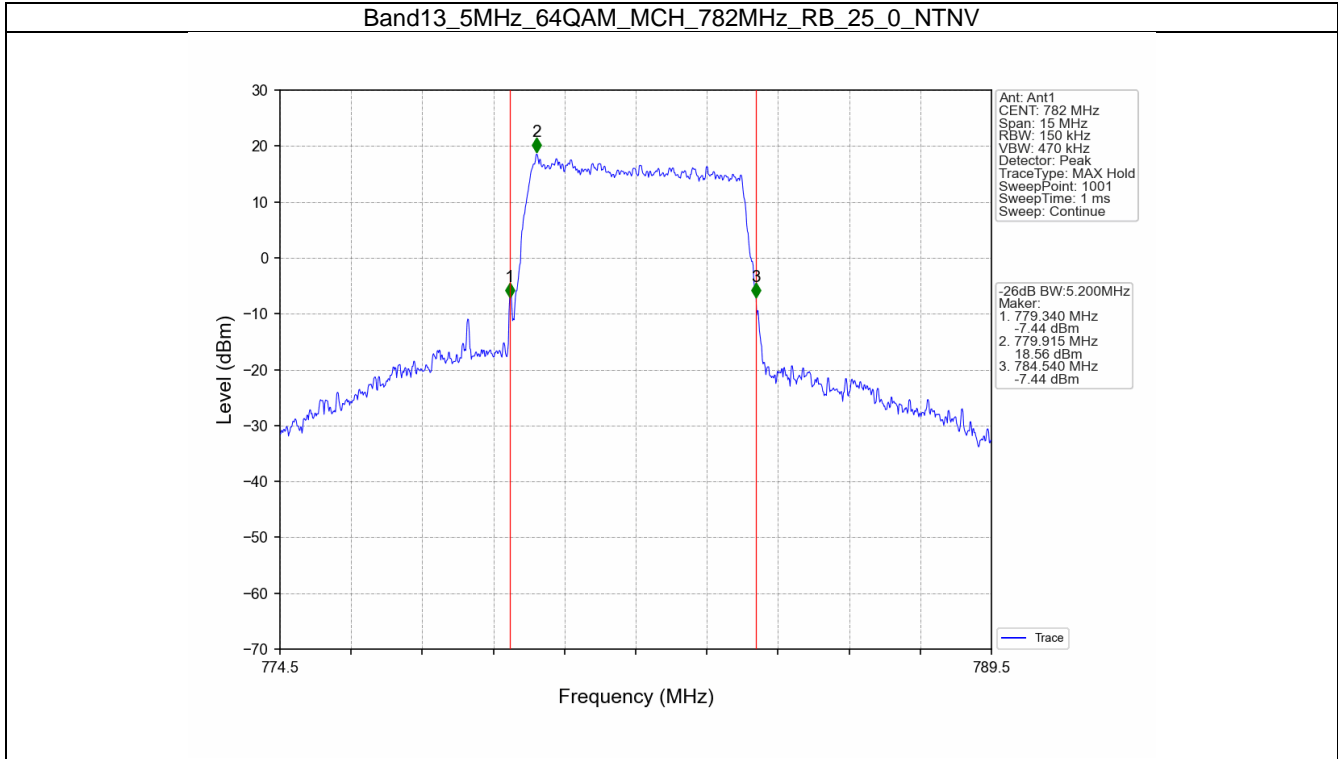
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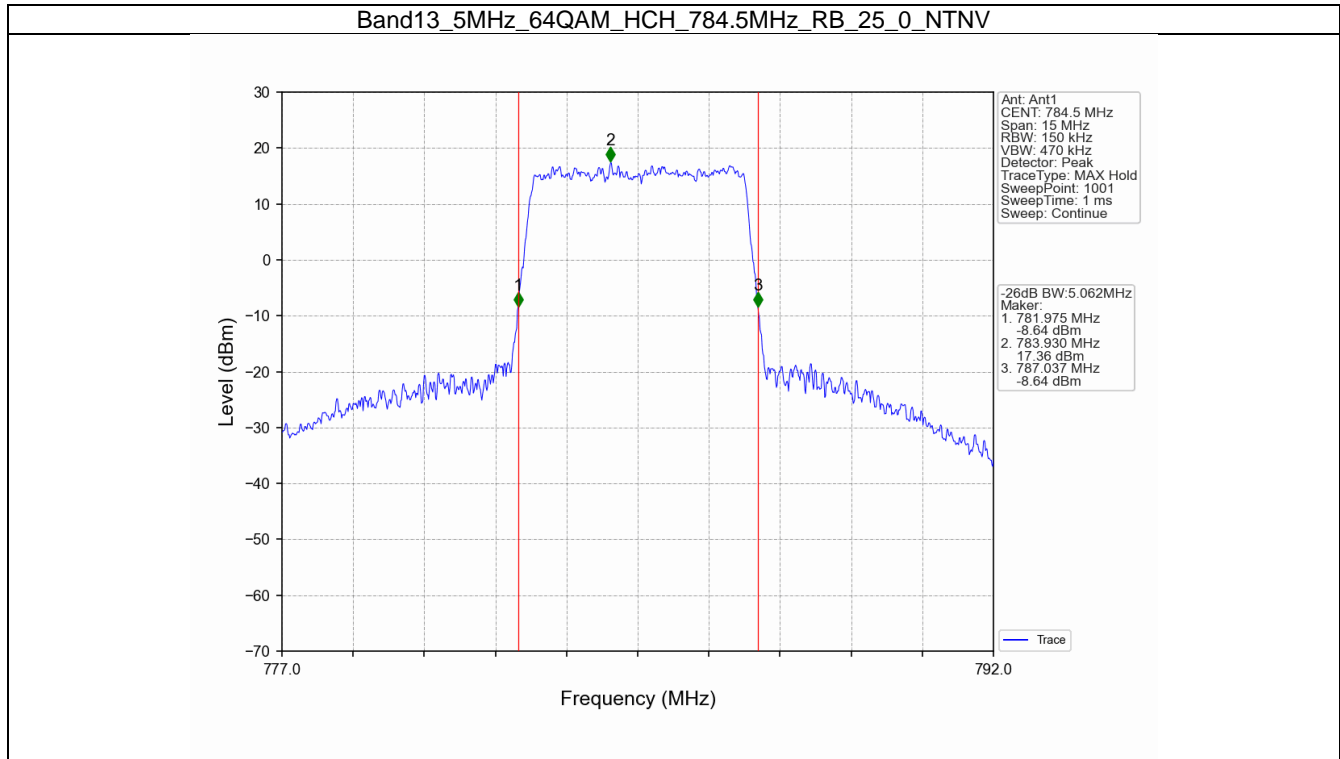


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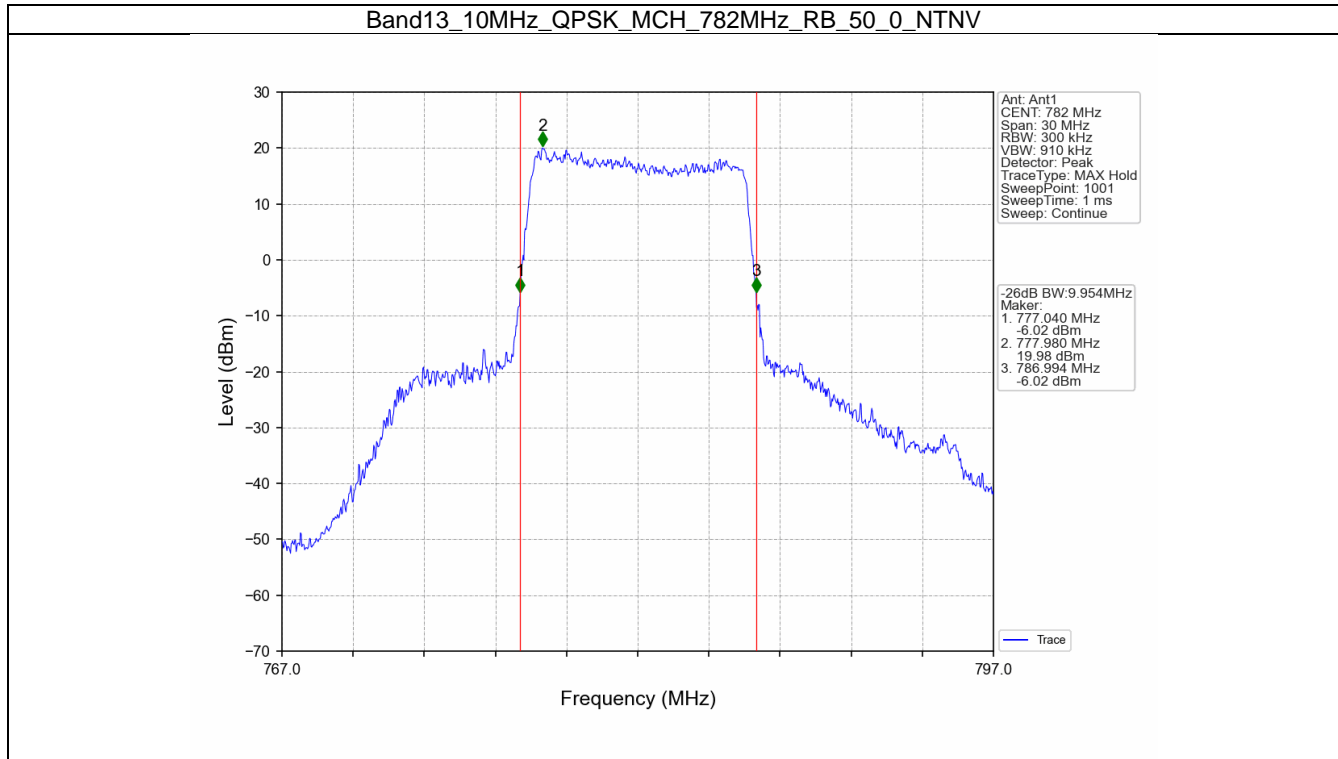


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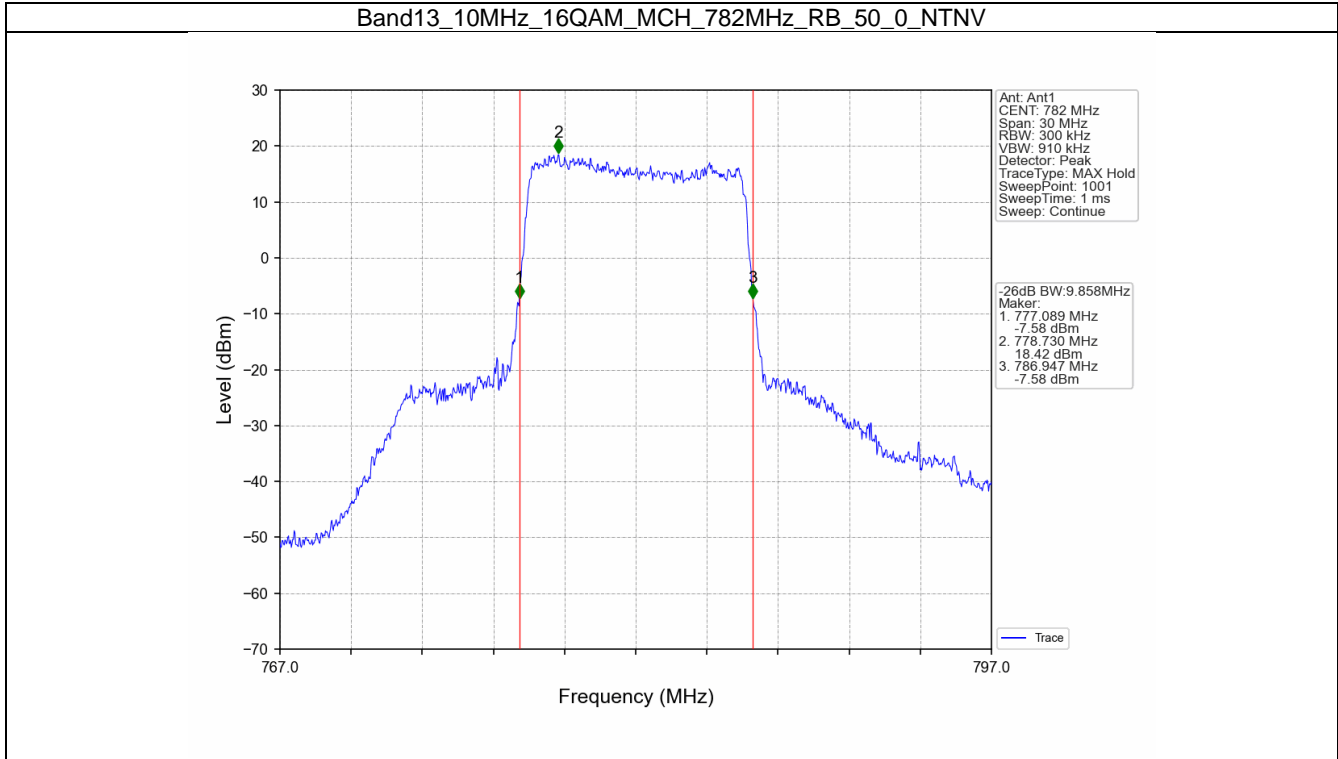
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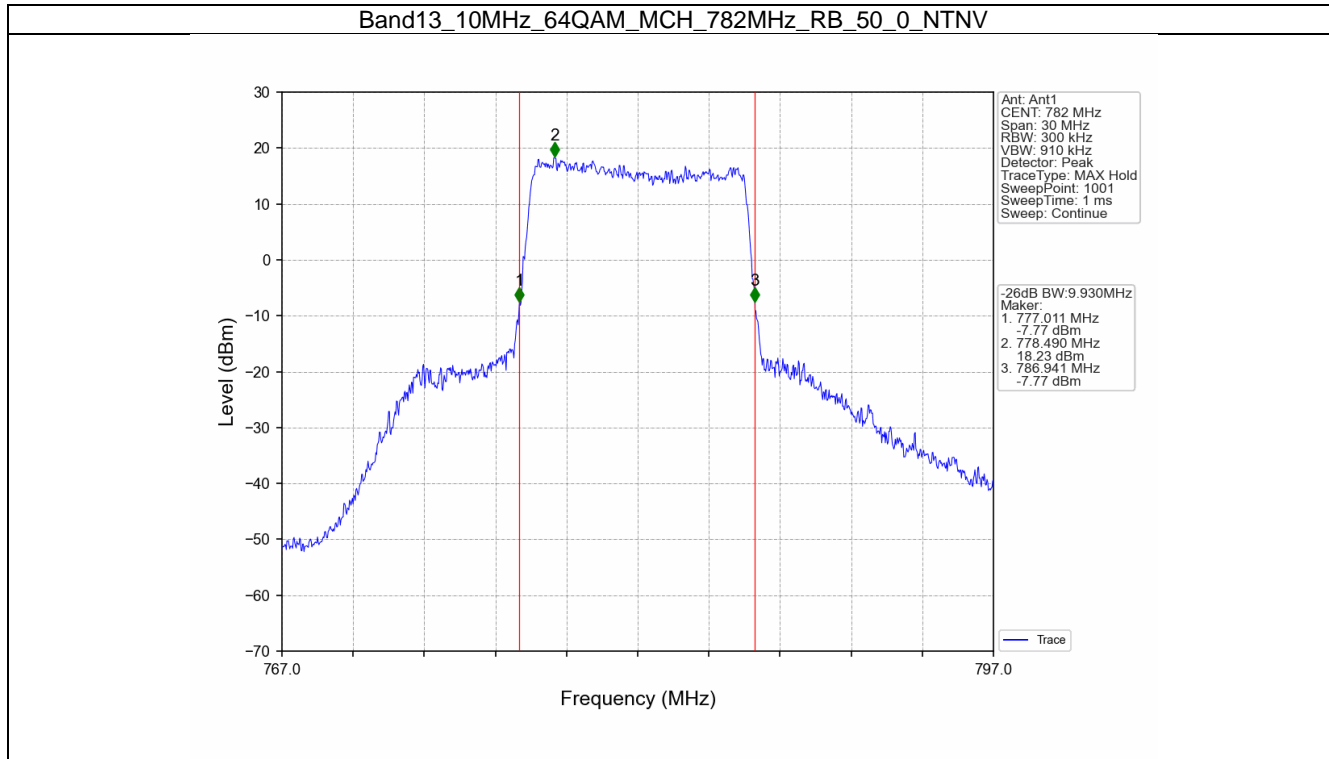


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## 4. Peak-Average Ratio

### 4.1 B13\_5MHz

#### 4.1.1 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	5.41	<=13	Pass
	782	25	0	5.54	<=13	Pass
	784.5	25	0	5.65	<=13	Pass
16QAM	779.5	25	0	6.19	<=13	Pass
	782	25	0	6.29	<=13	Pass
	784.5	25	0	6.37	<=13	Pass
64QAM	779.5	25	0	6.22	<=13	Pass
	782	25	0	6.24	<=13	Pass
	784.5	25	0	6.44	<=13	Pass



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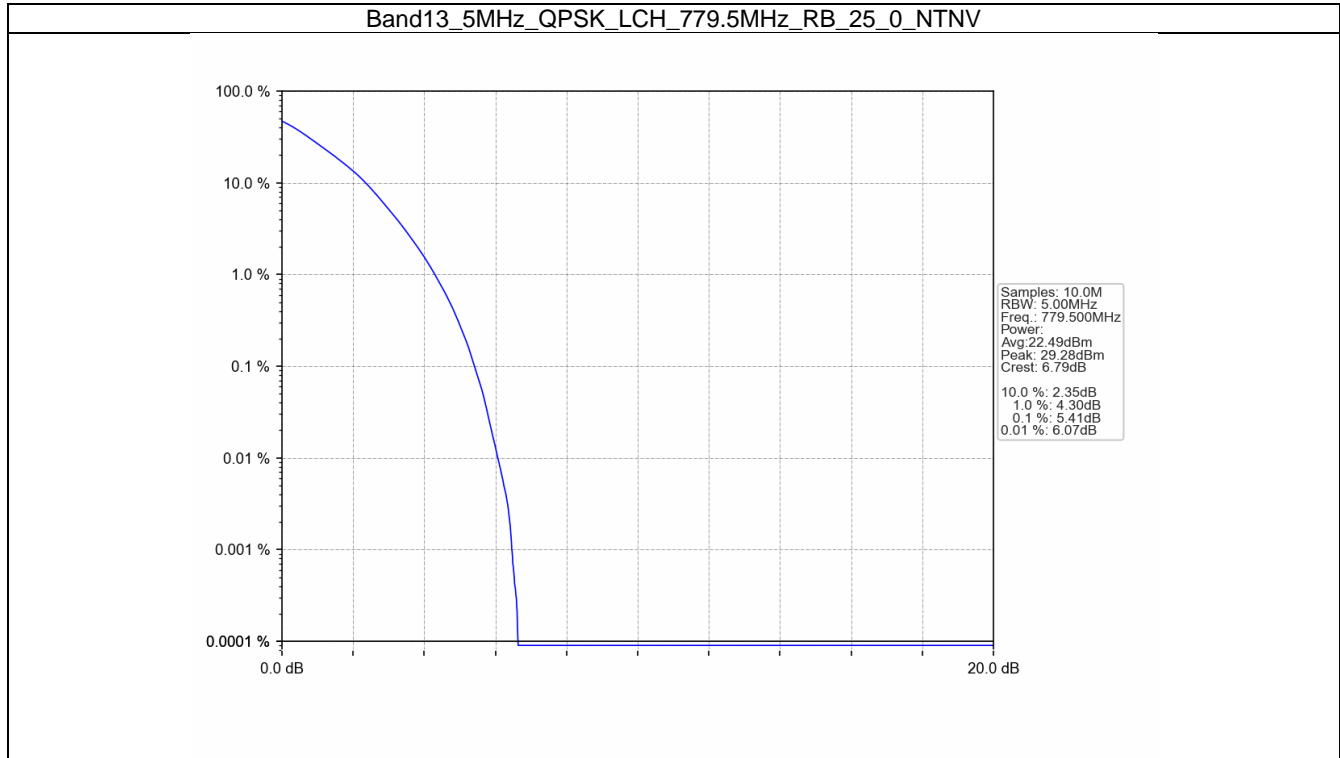




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4.1.2 Test Graph



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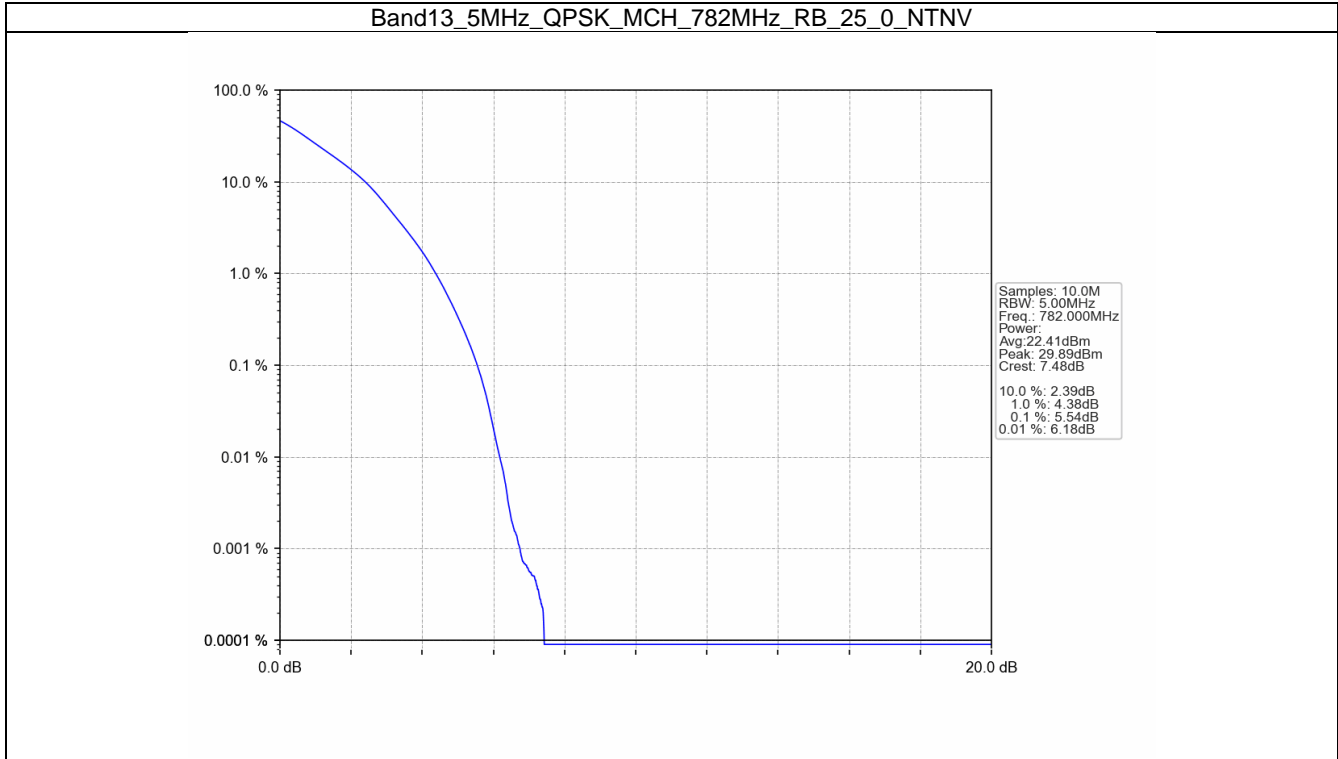
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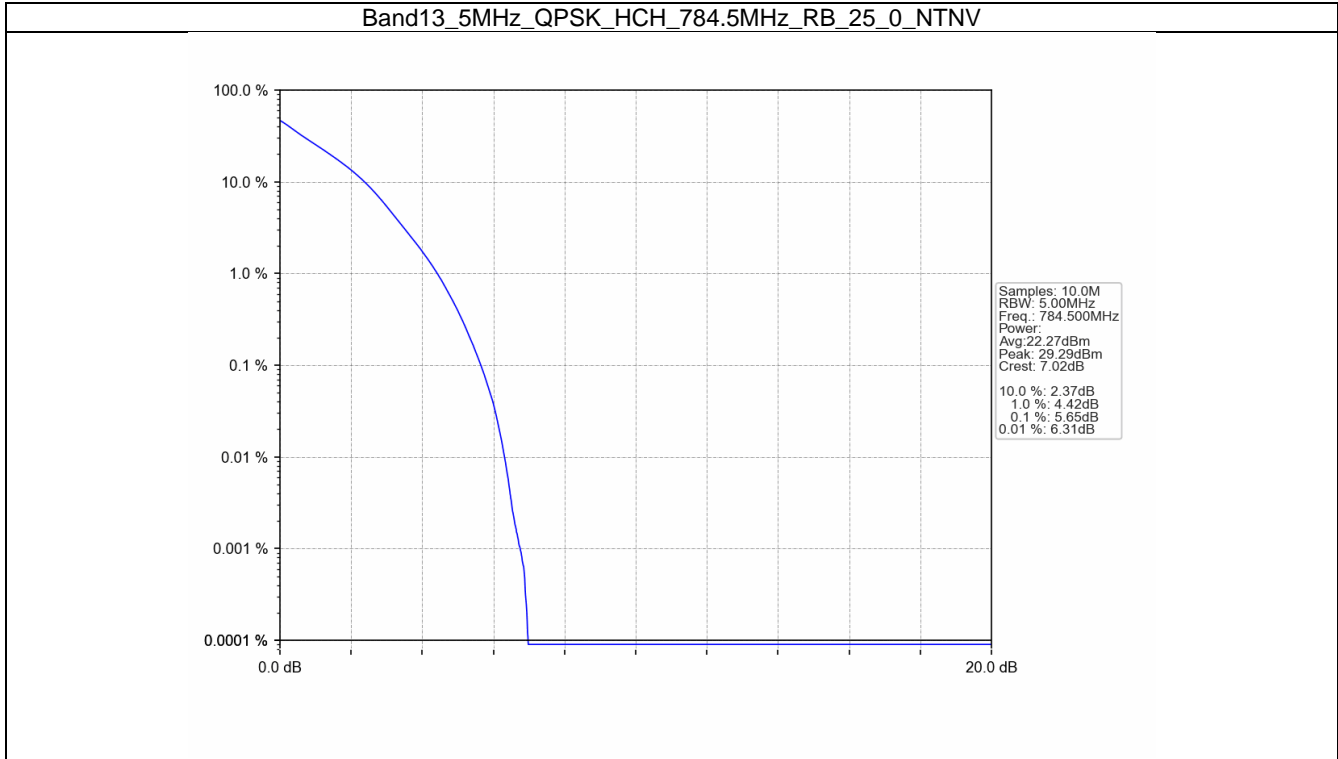
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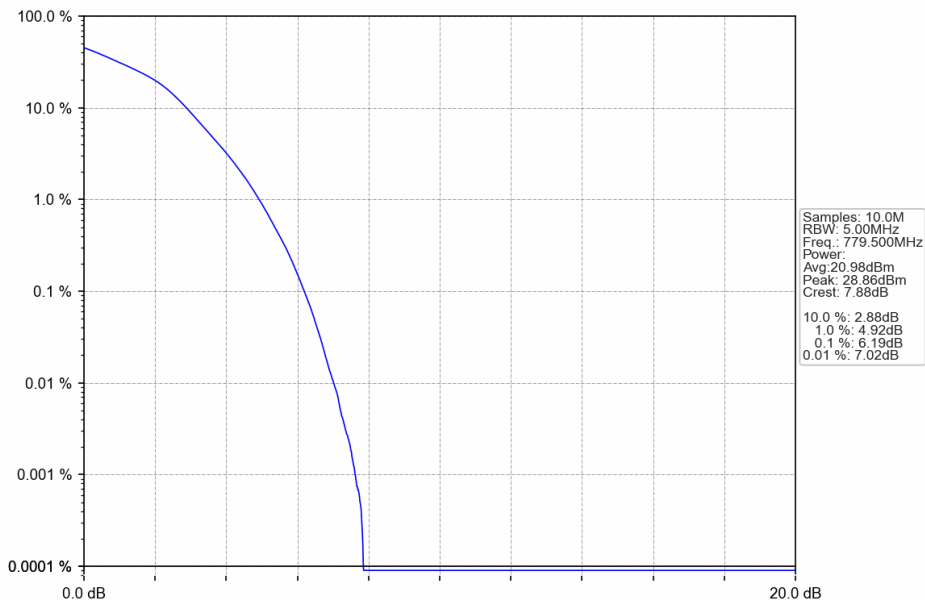
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Band13\_5MHz\_16QAM\_LCH\_779.5MHz\_RB\_25\_0\_NTNV



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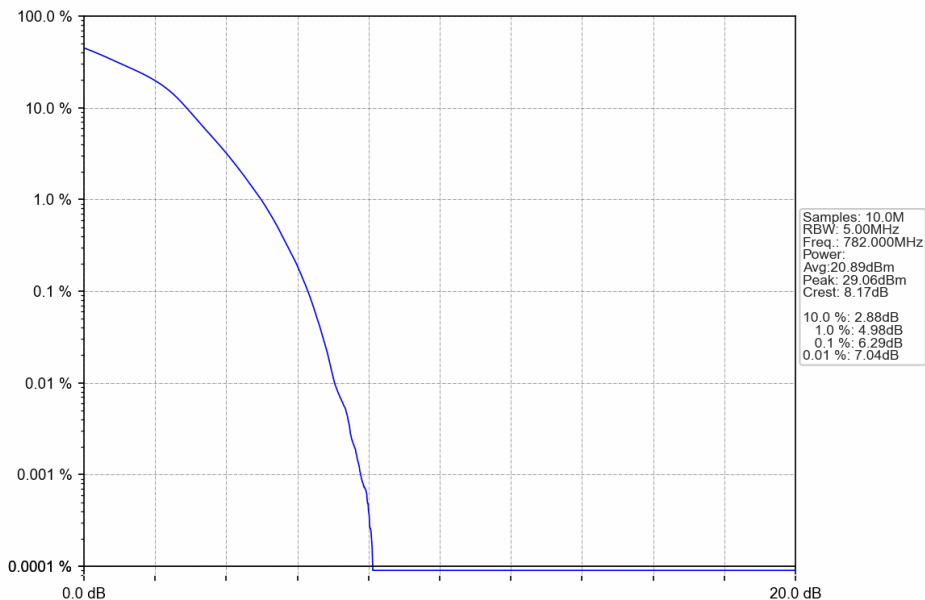
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Band13\_5MHz\_16QAM\_MCH\_782MHz\_RB\_25\_0\_NTNV



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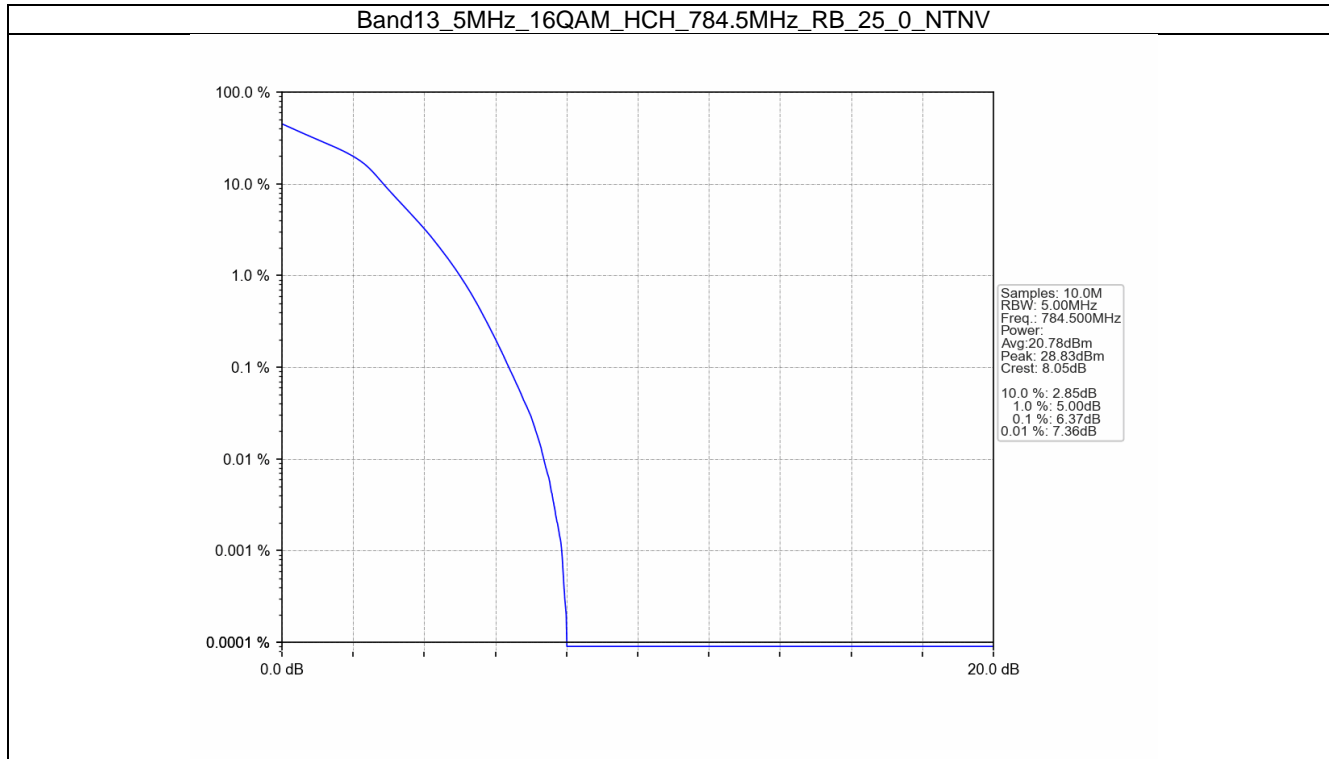


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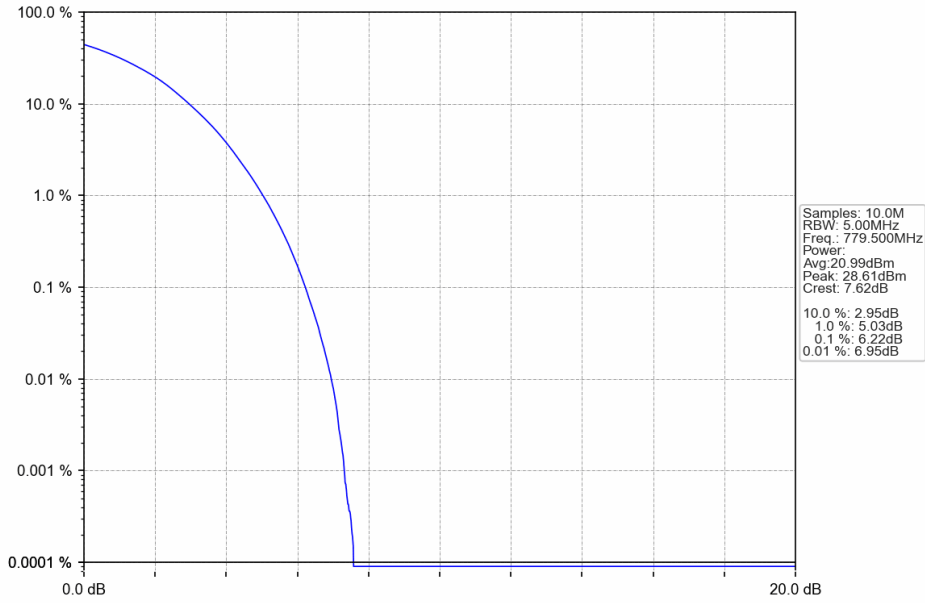




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Band13\_5MHz\_64QAM\_LCH\_779.5MHz\_RB\_25\_0\_NTNV



Samples: 10.0M  
 RBW: 5.00MHz  
 Freq.: 779.500MHz  
 Power:  
 Avg: 20.99dBm  
 Peak: 28.61dBm  
 Crest: 7.62dB  
 10.0 %: 2.95dB  
 1.0 %: 5.03dB  
 0.1 %: 6.22dB  
 0.01 %: 6.95dB



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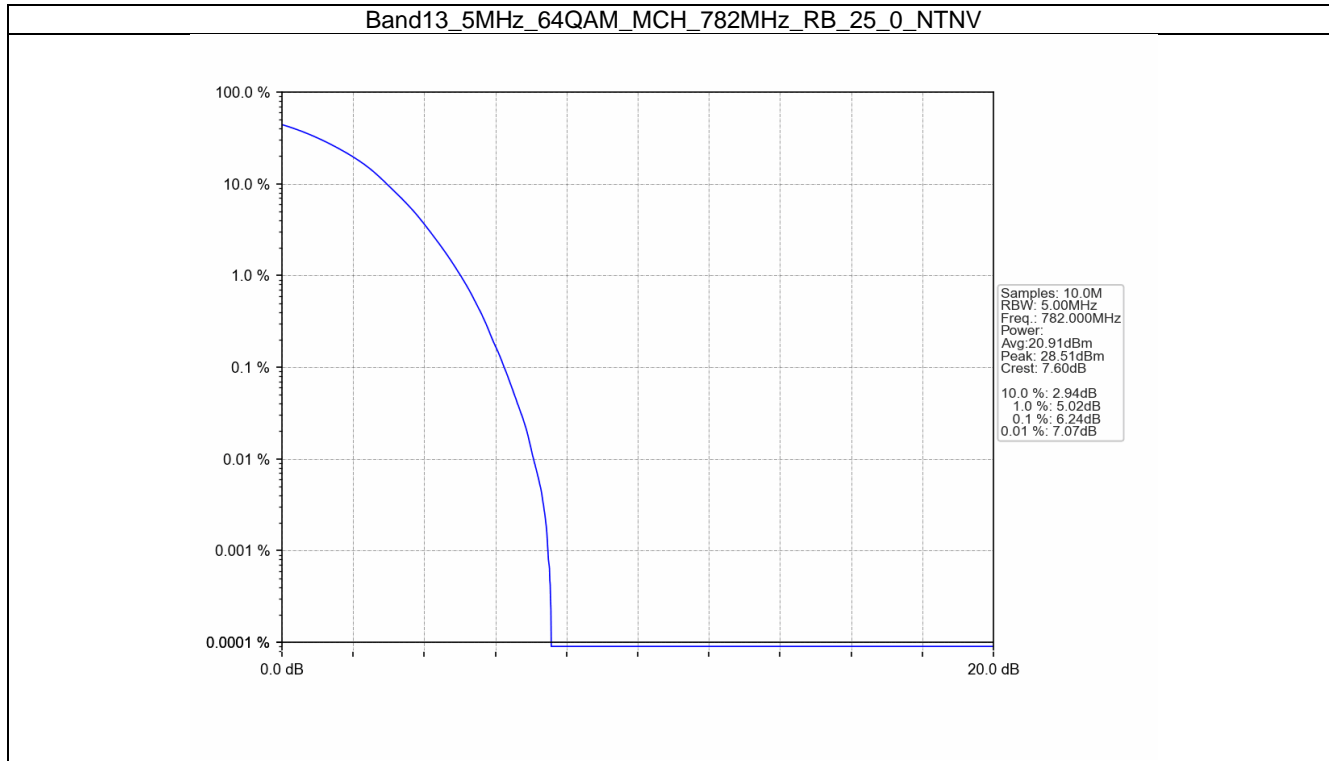
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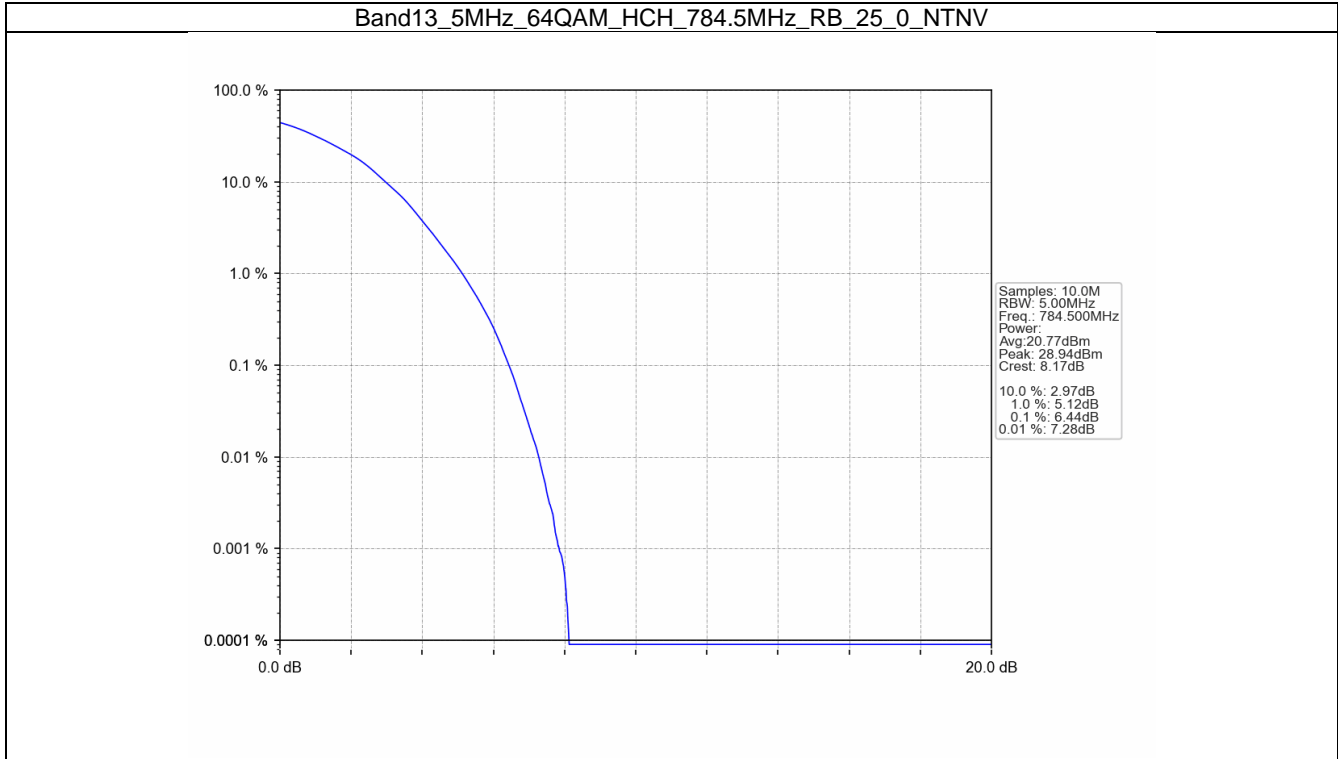
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## 4.2 B13\_10MHz

### 4.2.1 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	5.65	<=13	Pass
16QAM	782	50	0	6.37	<=13	Pass
64QAM	782	50	0	6.39	<=13	Pass



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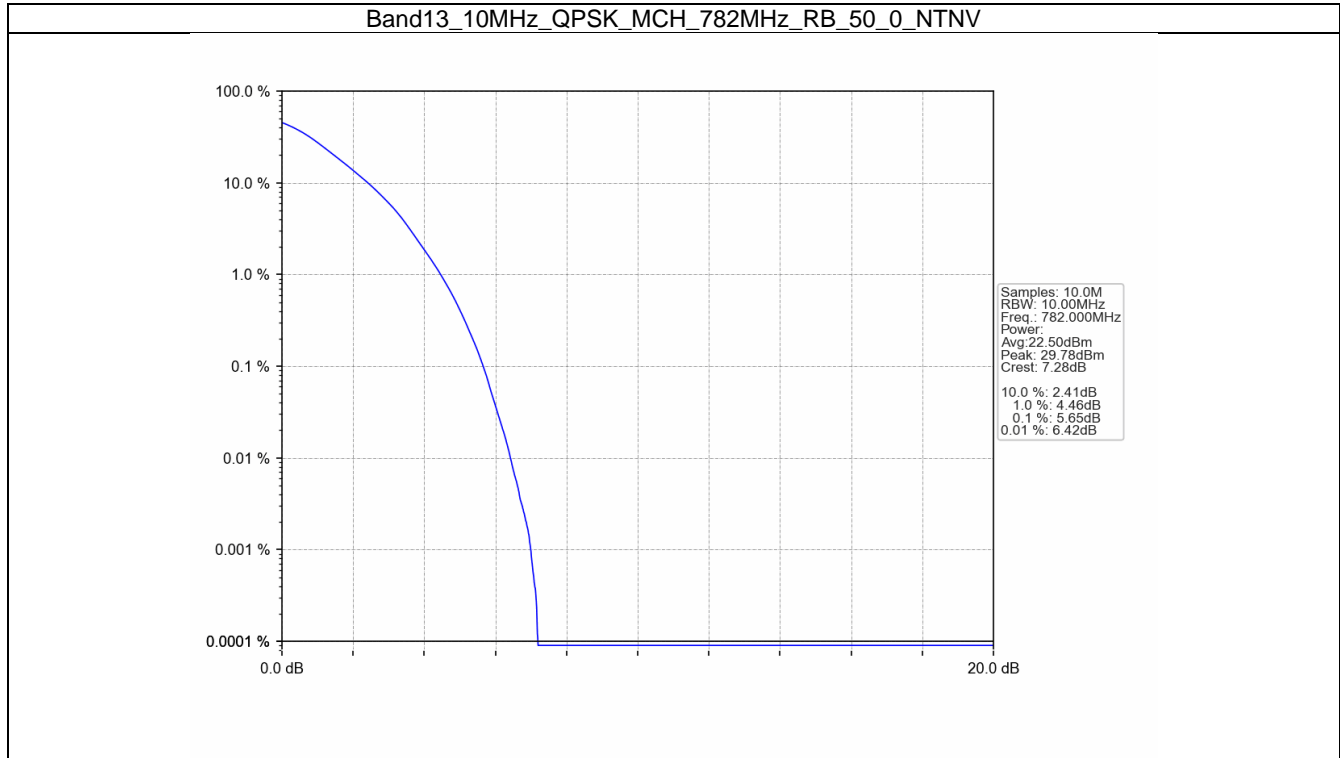
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4.2.2 Test Graph



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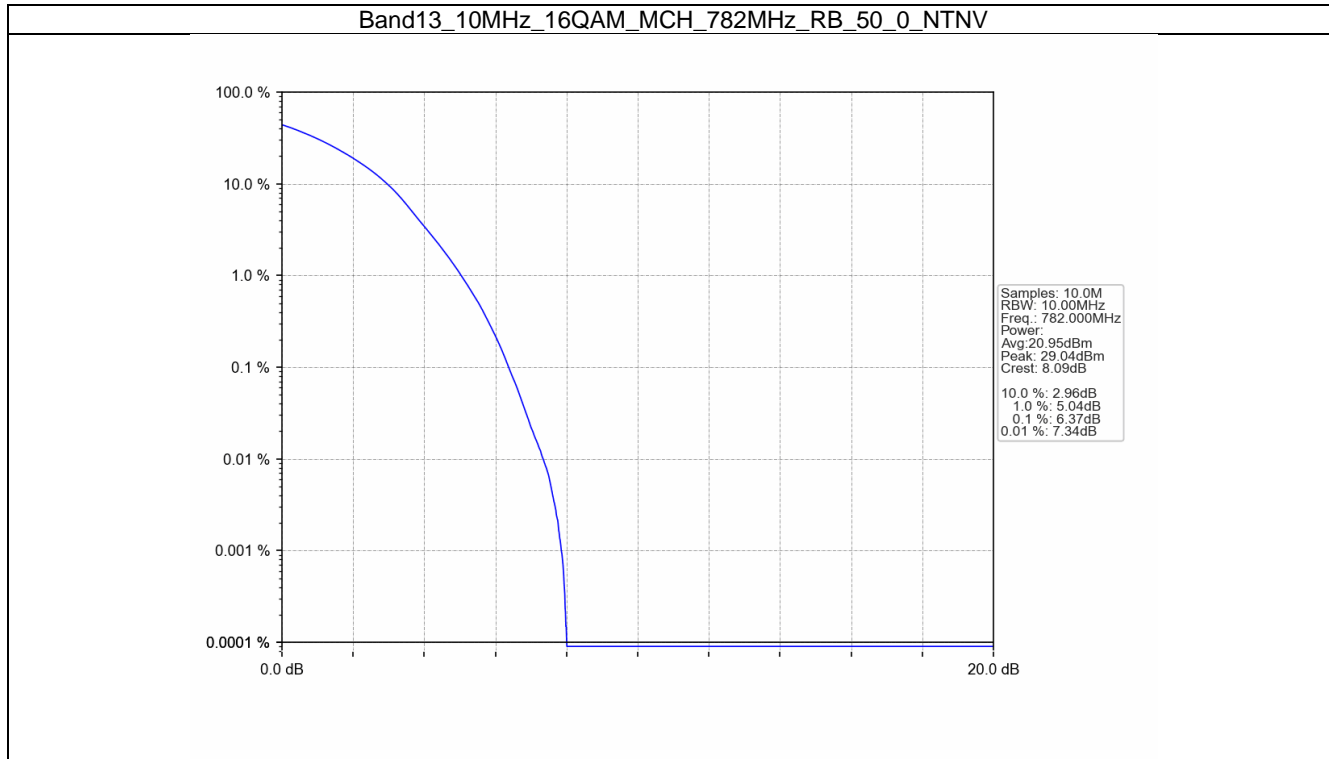


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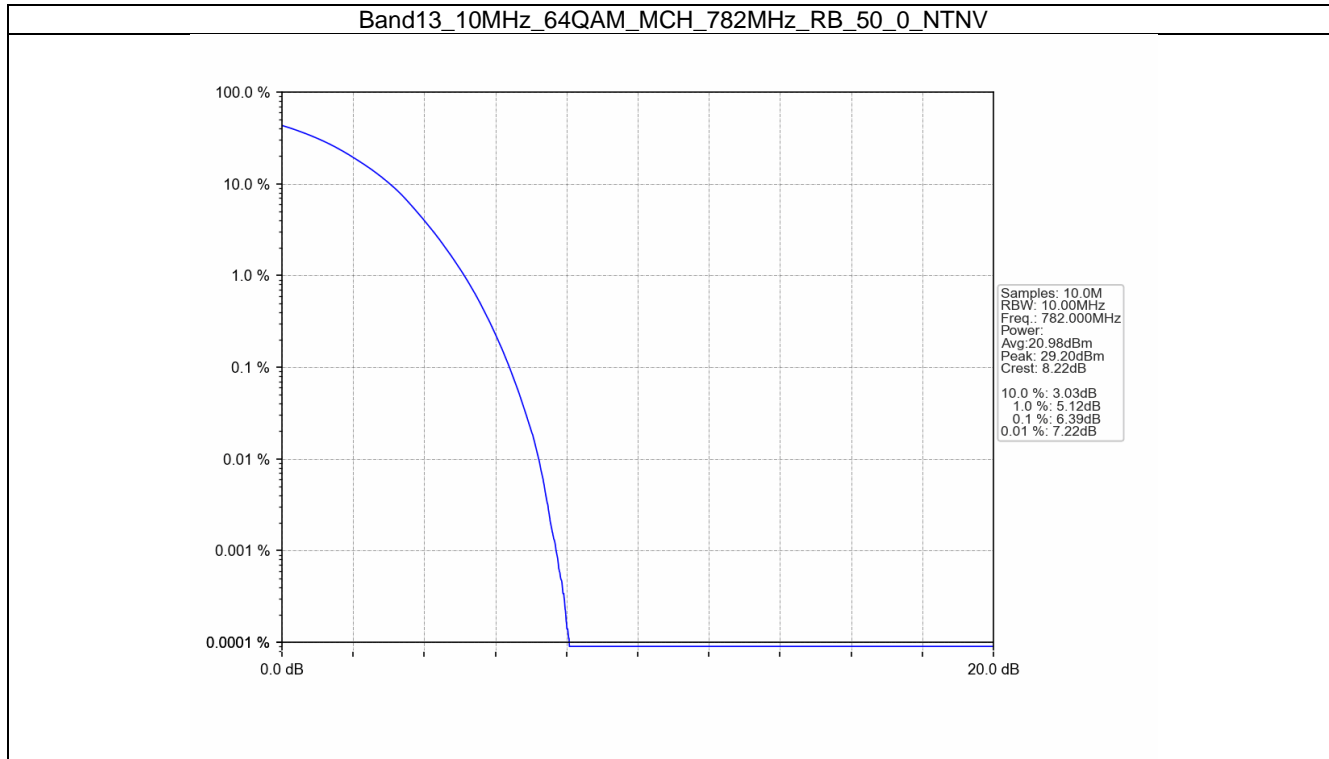


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## 5. Spurious Emission & Band Edges

### 5.1 B13\_5MHz

#### 5.1.1 Test Result

Band: 13 / Bandwidth: 5MHz / NTV						
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
		1	0	Refer To Test Graph		Pass
	784.5	1	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
		1	0	Refer To Test Graph		Pass
	784.5	1	24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
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
		1	0	Refer To Test Graph		Pass
	784.5	1	24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



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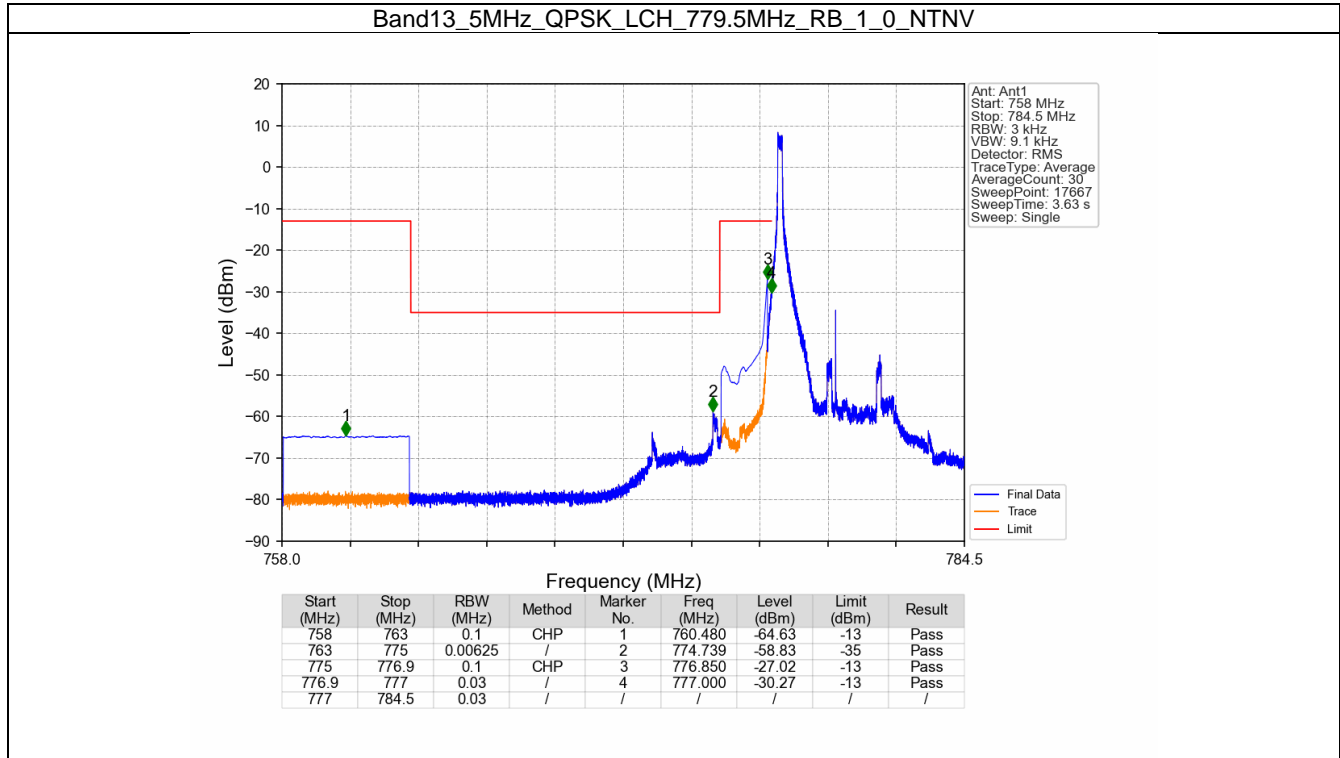
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5.1.2 Test Graph



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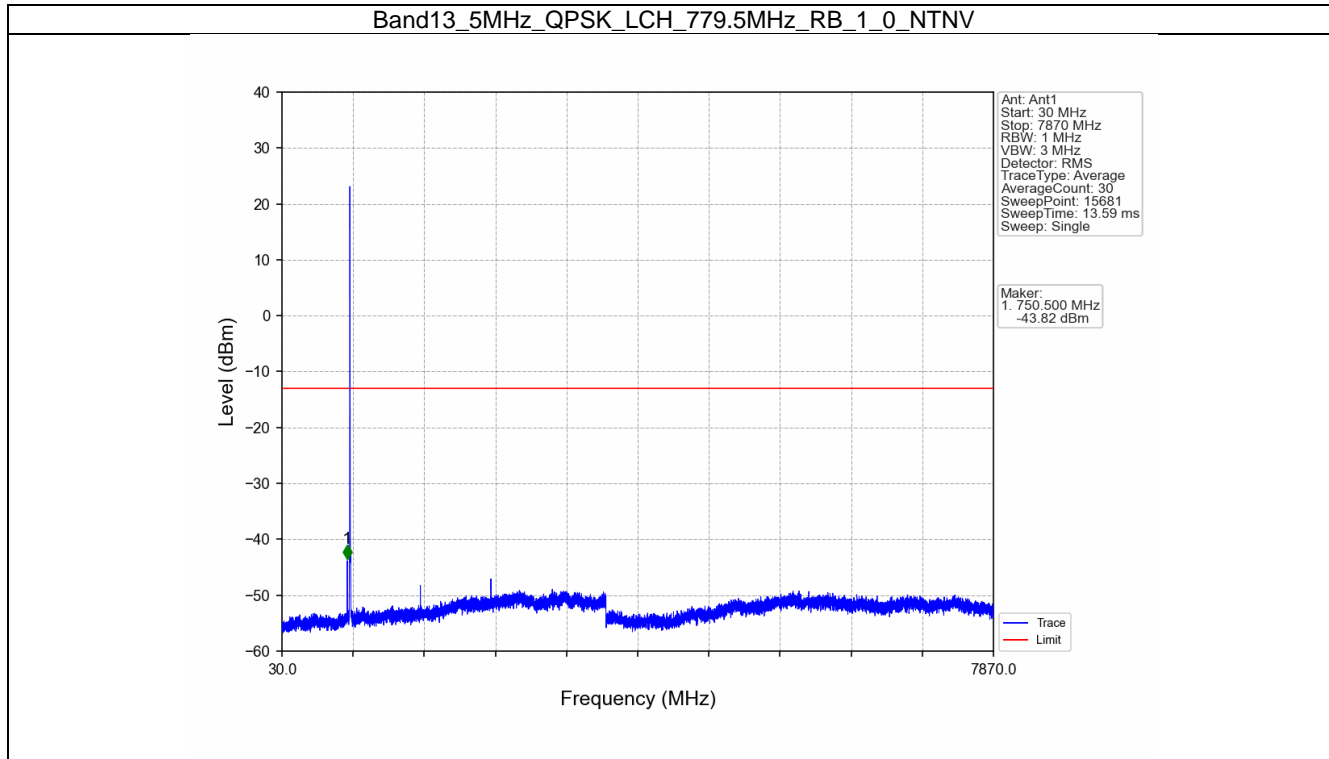


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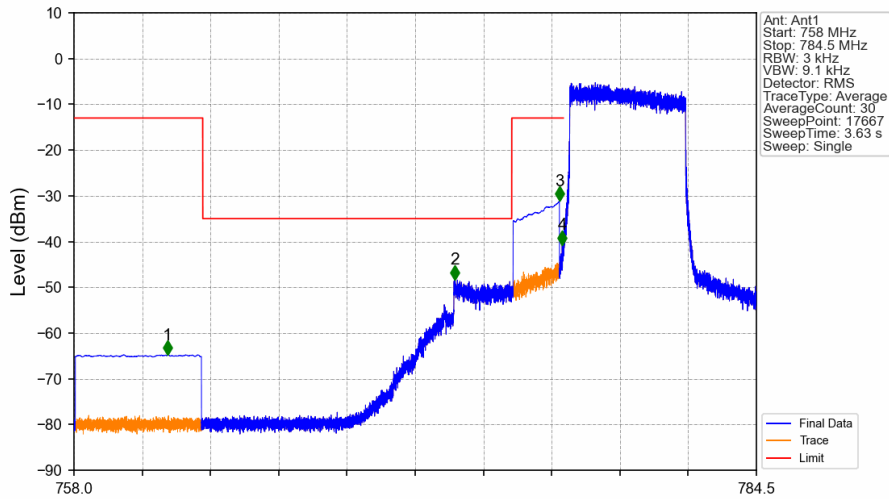
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Band13\_5MHz\_QPSK\_LCH\_779.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.633	-64.76	-13	Pass
763	775	0.00625	/	2	772.788	-48.29	-35	Pass
775	776.9	0.1	CHP	3	776.850	-31.04	-13	Pass
776.9	777	0.03	/	4	776.958	-40.72	-13	Pass
777	784.5	0.03	/	/	/	/	/	/



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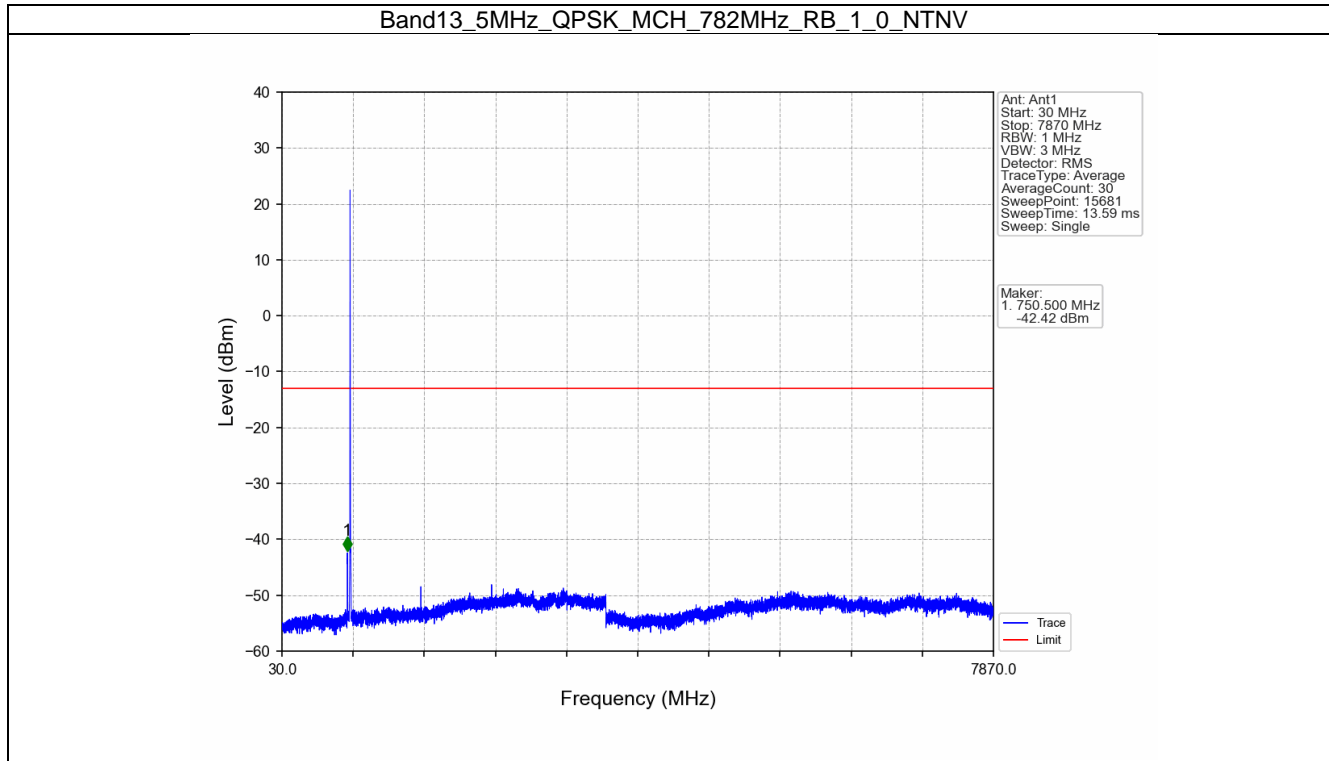


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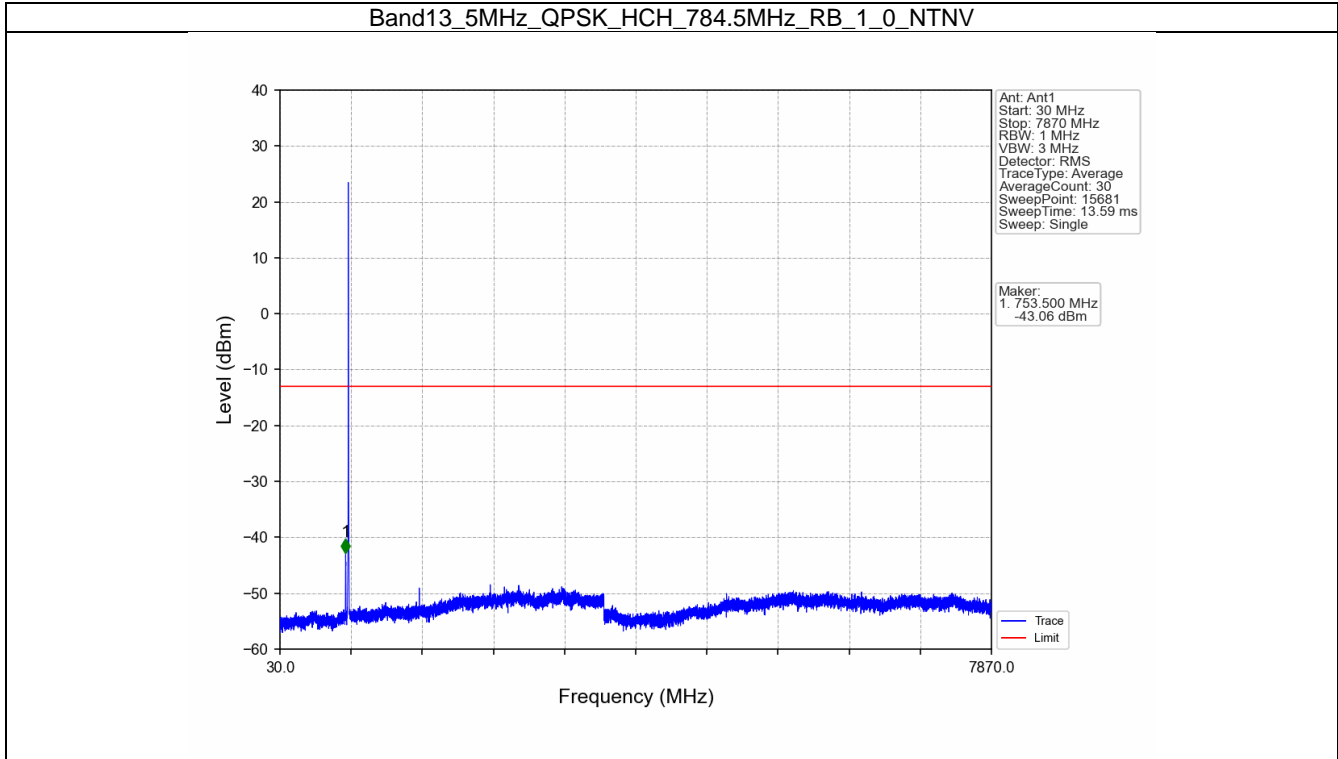
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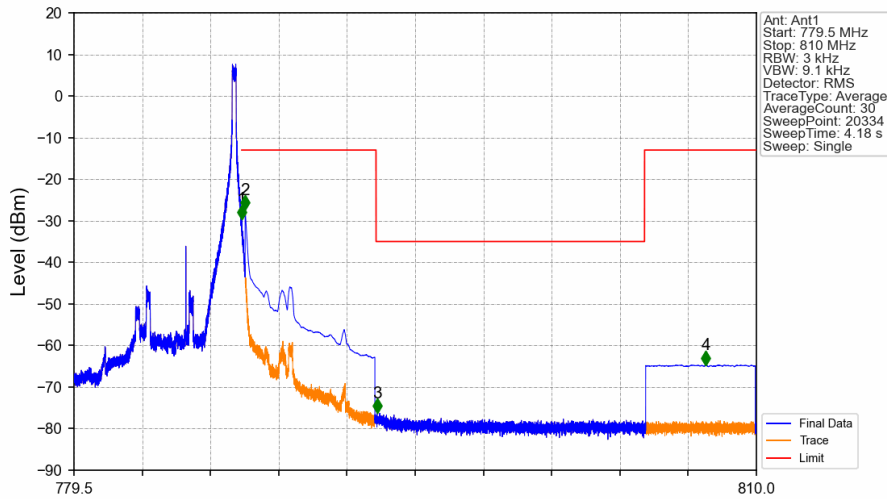
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Band13\_5MHz\_QPSK\_HCH\_784.5MHz\_RB\_1\_24\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	/	1	787.000	-29.59	-13	/
787	787.1	0.03	/	2	787.150	-27.35	-13	Pass
787.1	793	0.1	CHP	3	793.045	-76.23	-35	Pass
793	805	0.00625	/	4	807.732	-64.69	-13	Pass
805	810	0.1	CHP					



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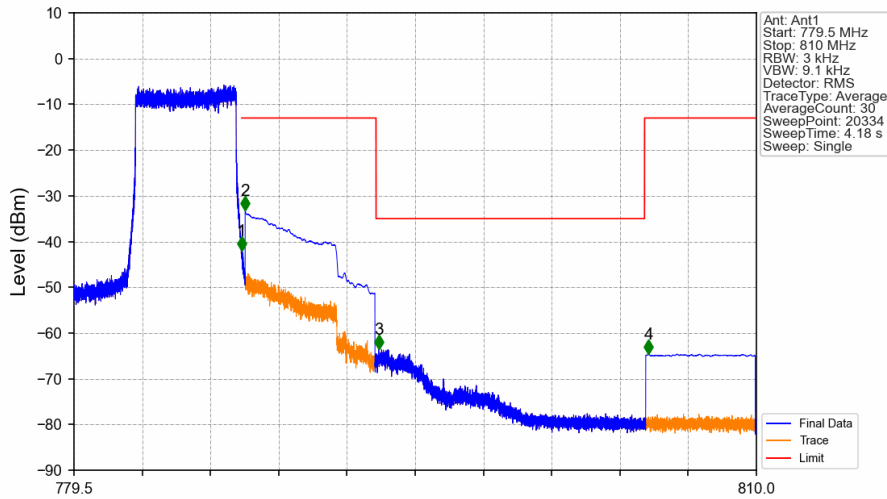
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Band13\_5MHz\_QPSK\_HCH\_784.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	/	1	787.000	-42.03	-13	/
787	787.1	0.03	/	2	787.150	-33.29	-13	Pass
787.1	793	0.1	CHP	3	793.120	-63.54	-35	Pass
793	805	0.00625	/	3	793.120	-63.54	-35	Pass
805	810	0.1	CHP	4	805.176	-64.62	-13	Pass



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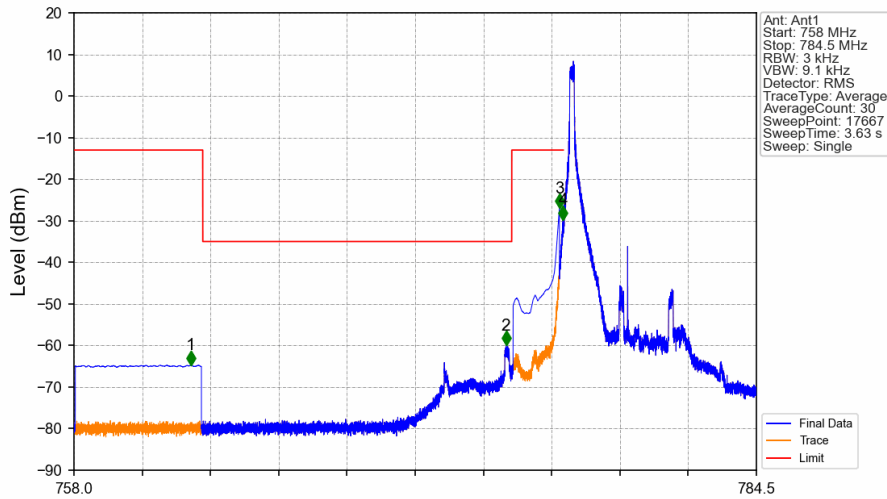
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Band13\_5MHz\_16QAM\_LCH\_779.5MHz\_RB\_1\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.533	-64.69	-13	Pass
763	775	0.00625	/	2	774.778	-59.99	-35	Pass
775	776.9	0.1	CHP	3	776.850	-26.91	-13	Pass
776.9	777	0.03	/	4	776.988	-29.79	-13	Pass
777	784.5	0.03	/	/	/	/	/	/



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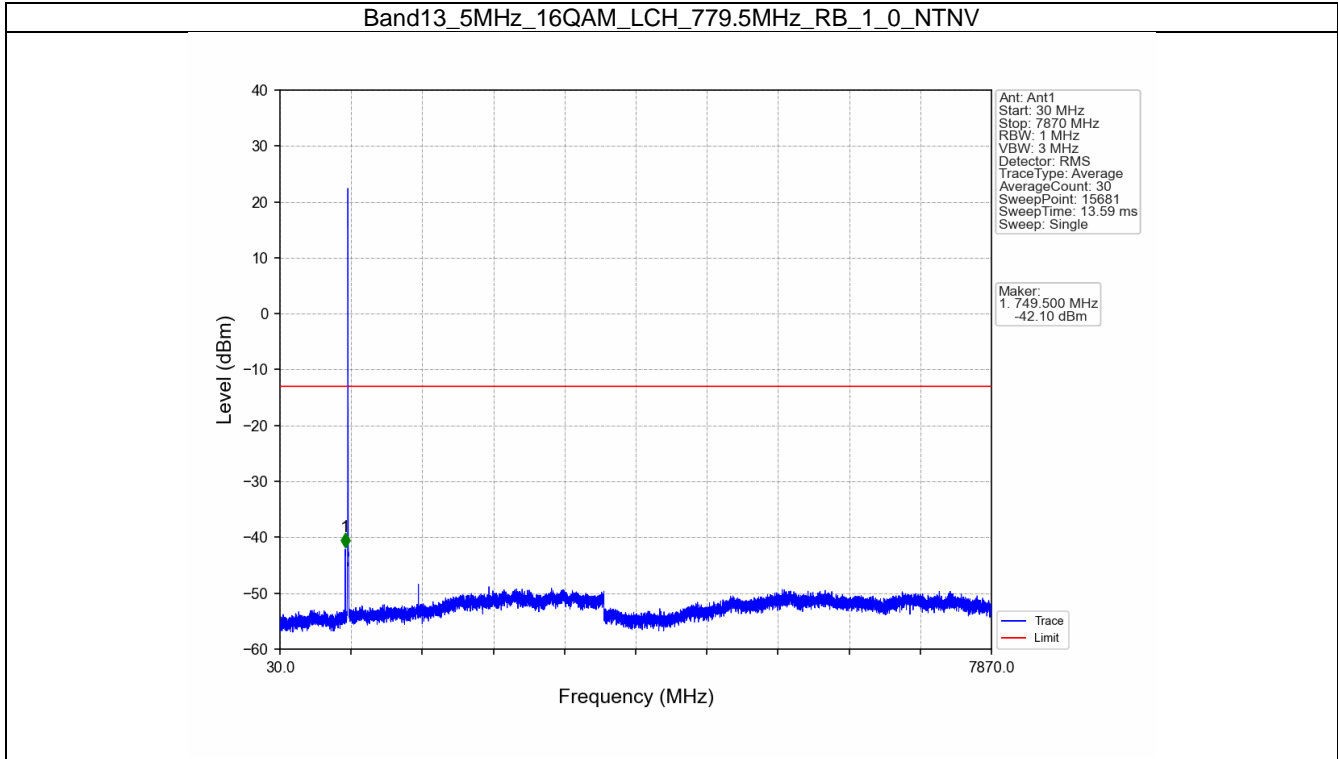
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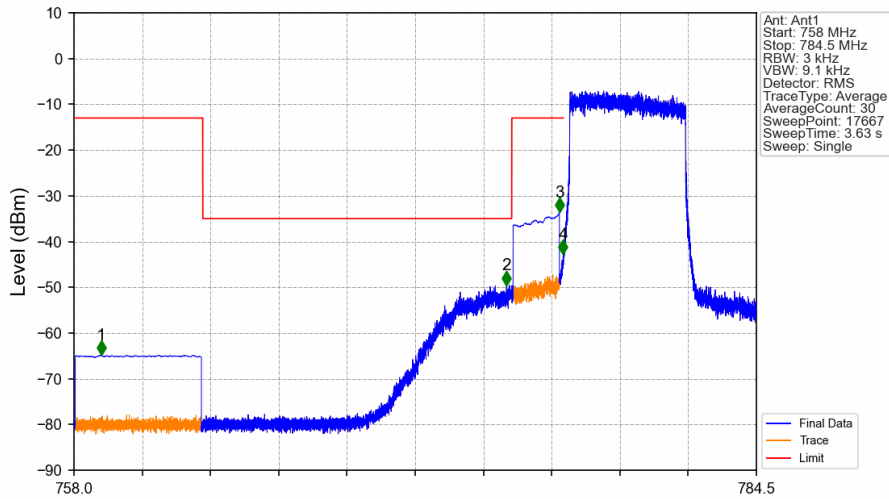
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Band13\_5MHz\_16QAM\_LCH\_779.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	759.050	-64.86	-13	Pass
763	775	0.00625	/	2	774.798	-49.53	-35	Pass
775	776.9	0.1	CHP	3	776.850	-33.56	-13	Pass
776.9	777	0.03	/	4	776.997	-42.80	-13	Pass
777	784.5	0.03	/	/	/	/	/	/



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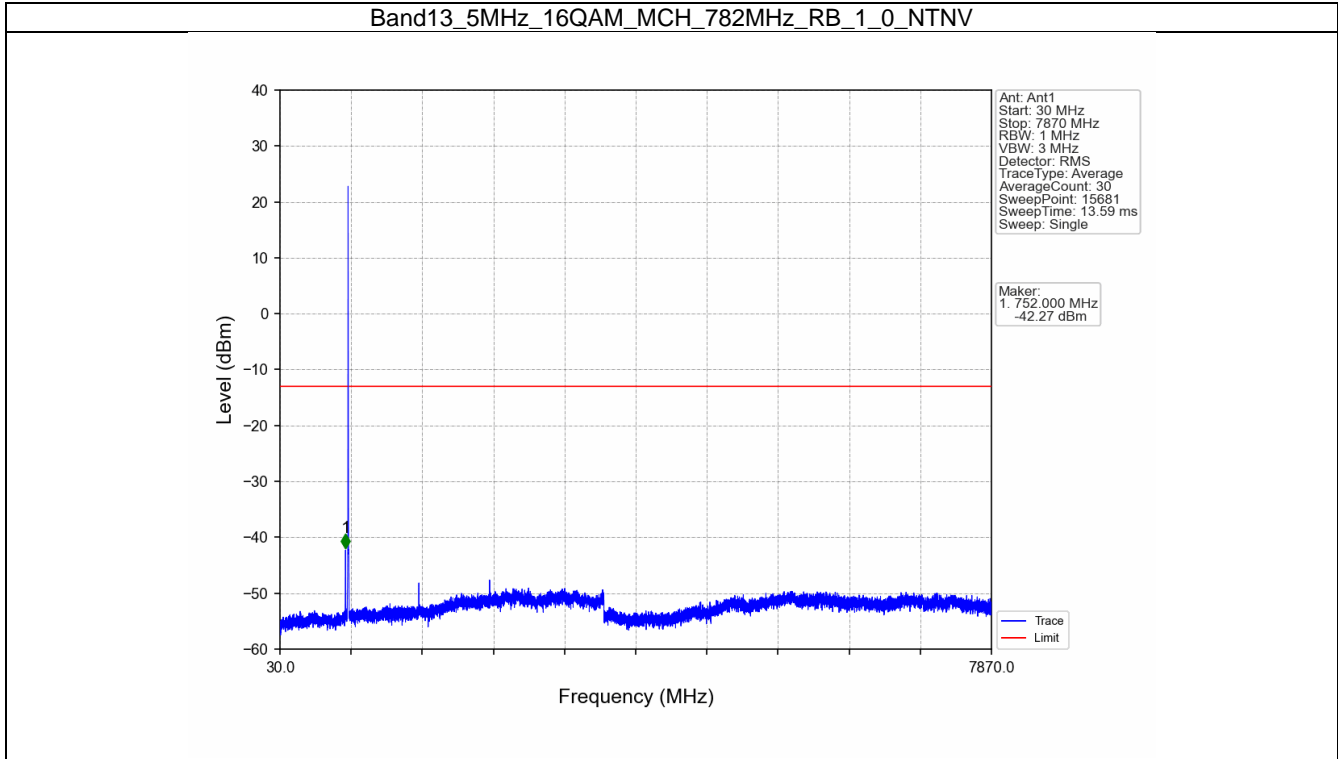
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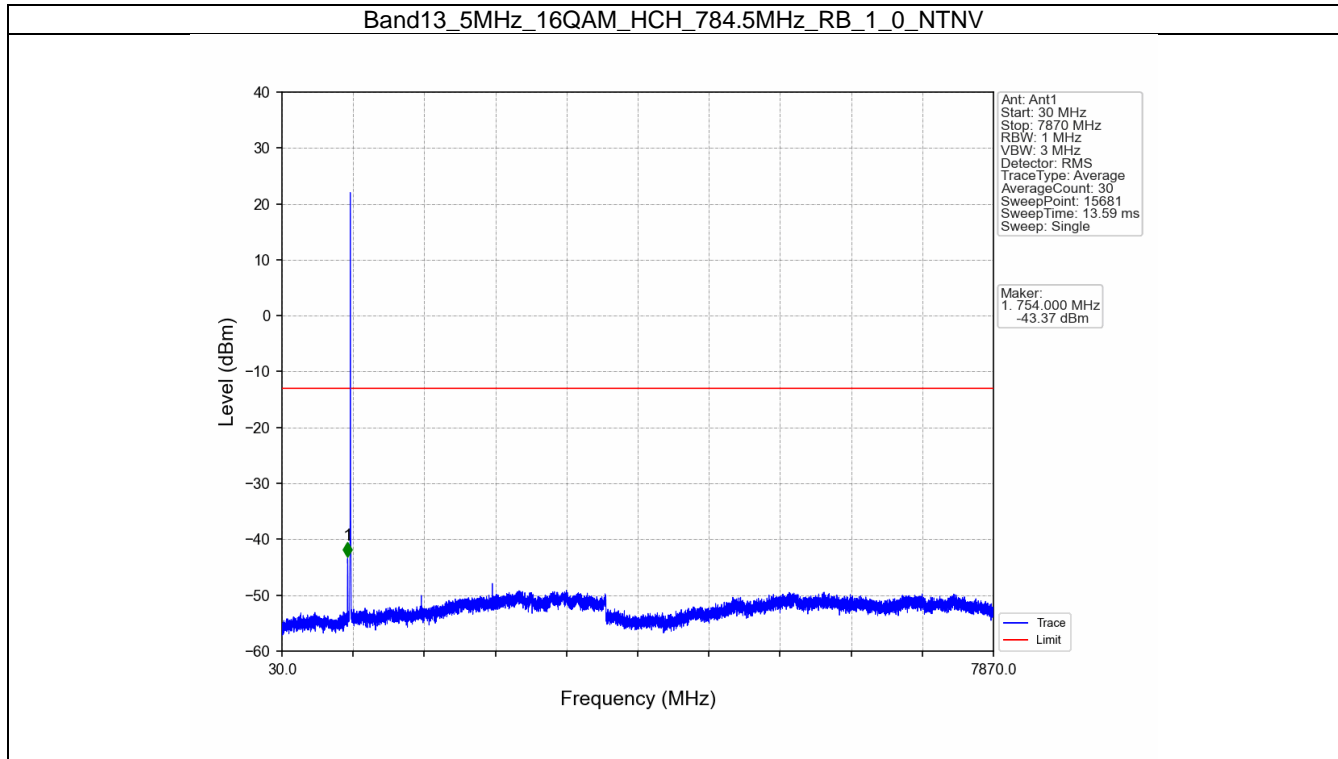


# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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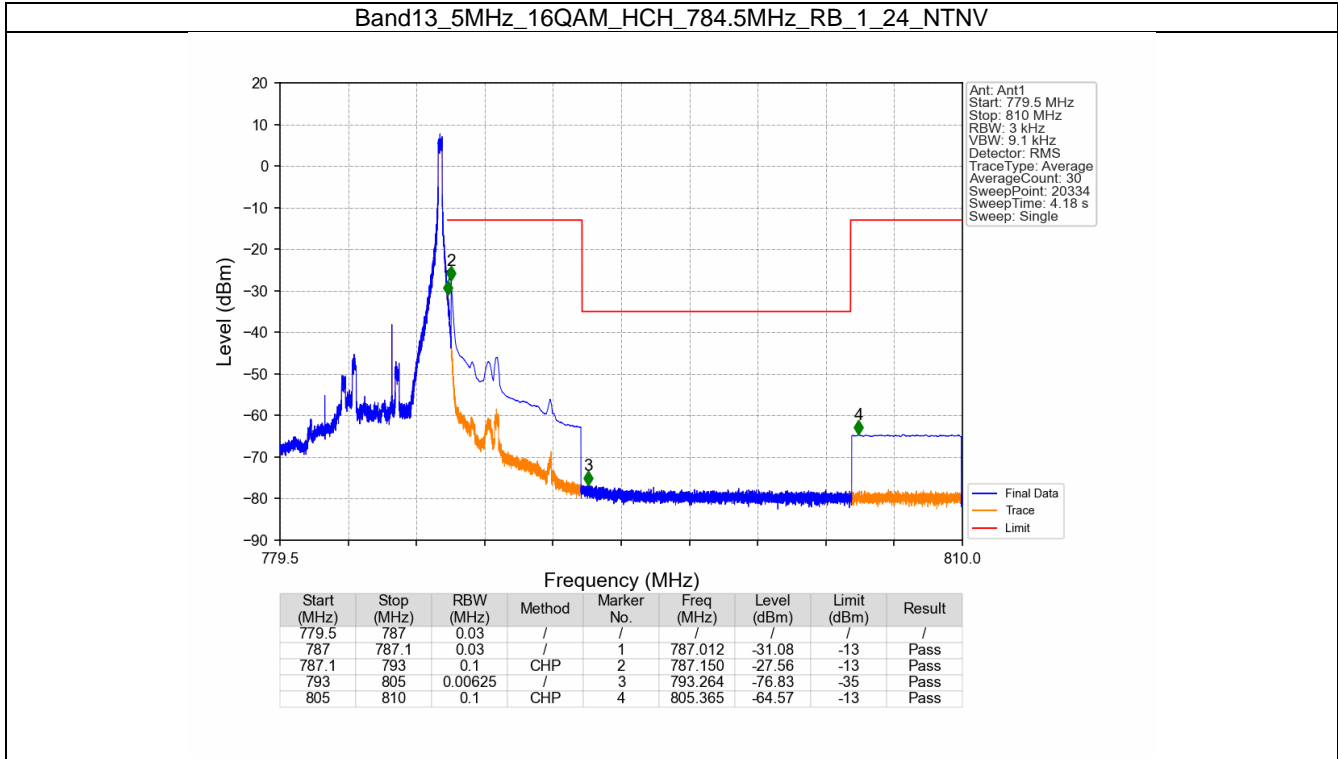
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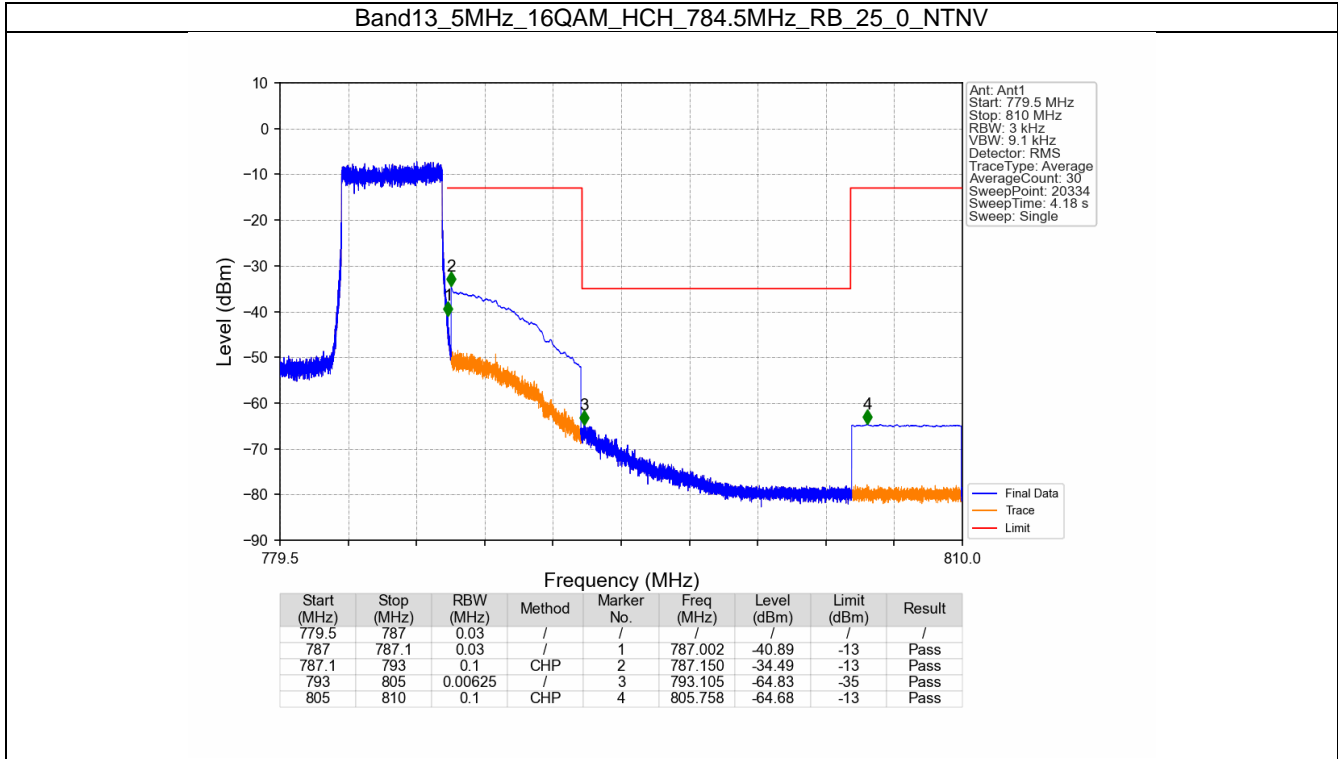
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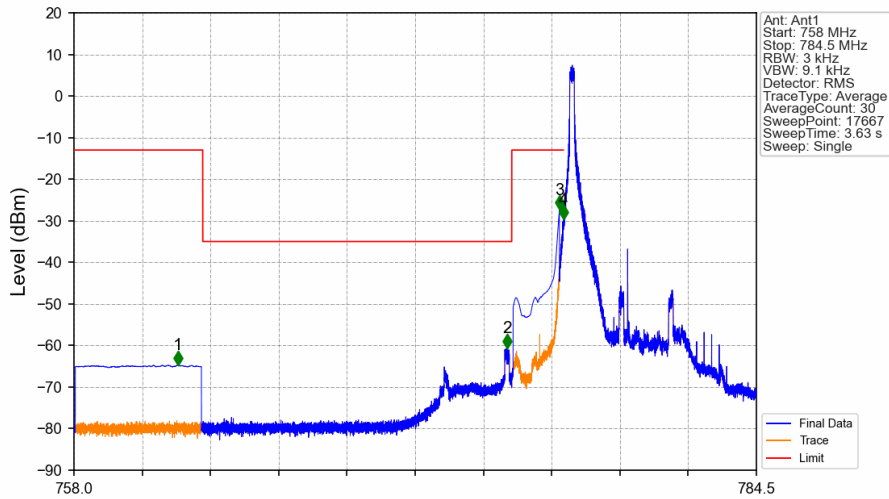
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Band13\_5MHz\_64QAM\_LCH\_779.5MHz\_RB\_1\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.041	-64.71	-13	Pass
763	775	0.00625	/	2	774.831	-60.63	-35	Pass
775	776.9	0.1	CHP	3	776.850	-27.34	-13	Pass
776.9	777	0.03	/	4	777.000	-29.63	-13	Pass
777	784.5	0.03	/	/	/	/	/	/



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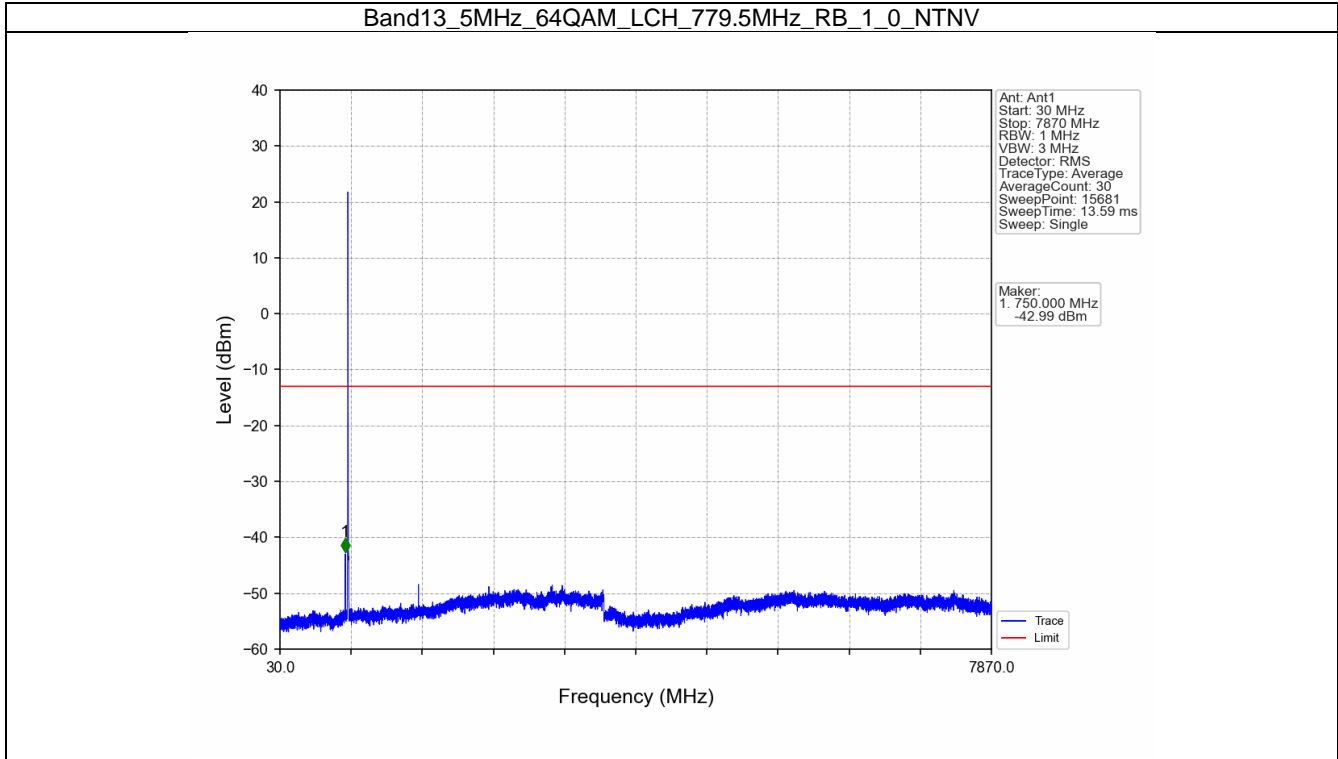
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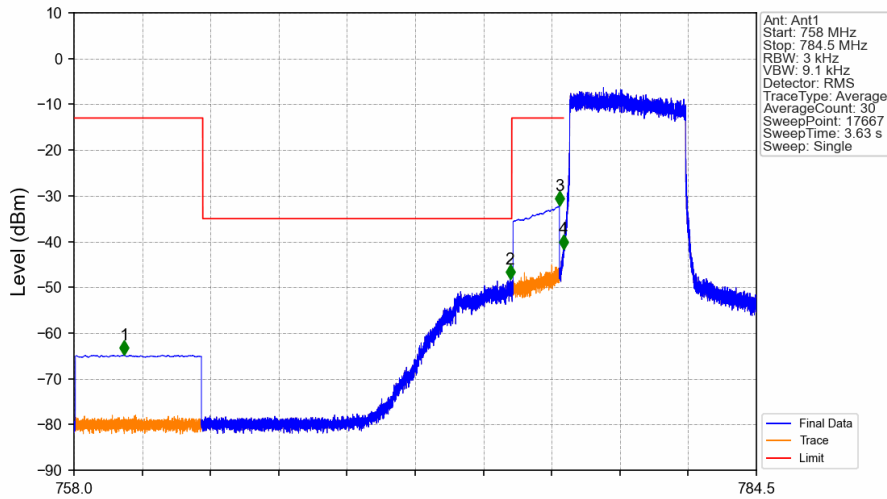




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Band13\_5MHz\_64QAM\_LCH\_779.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	759.949	-64.84	-13	Pass
763	775	0.00625	/	2	774.933	-48.26	-35	Pass
775	776.9	0.1	CHP	3	776.850	-32.17	-13	Pass
776.9	777	0.03	/	4	777.000	-41.60	-13	Pass
777	784.5	0.03	/	/	/	/	/	/



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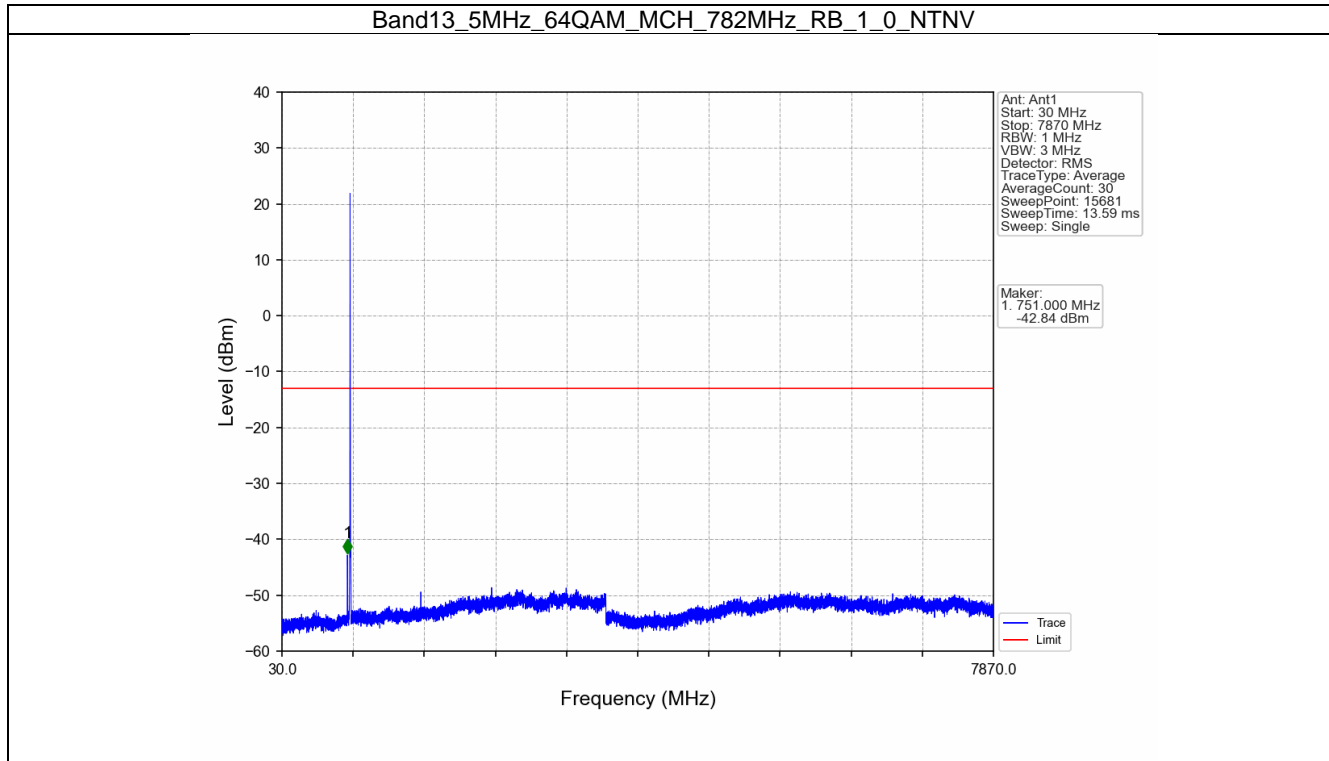


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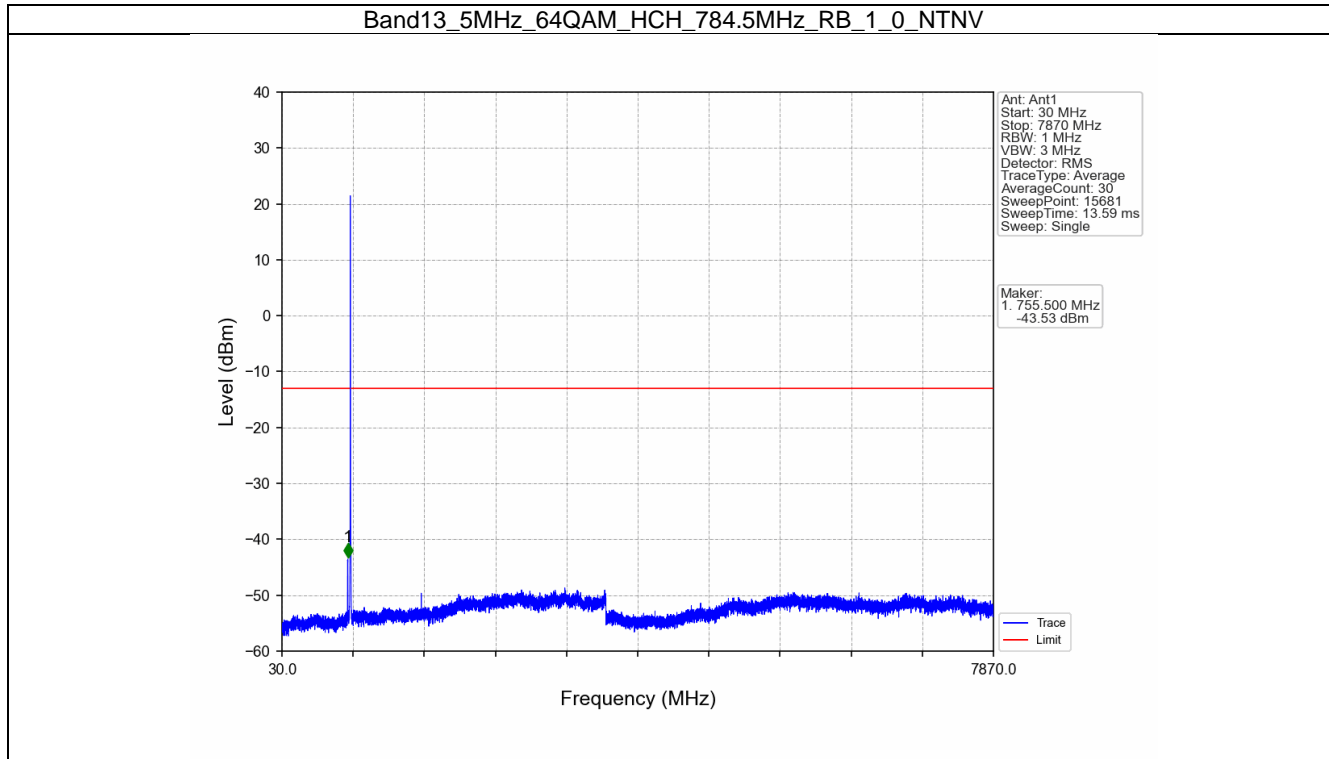


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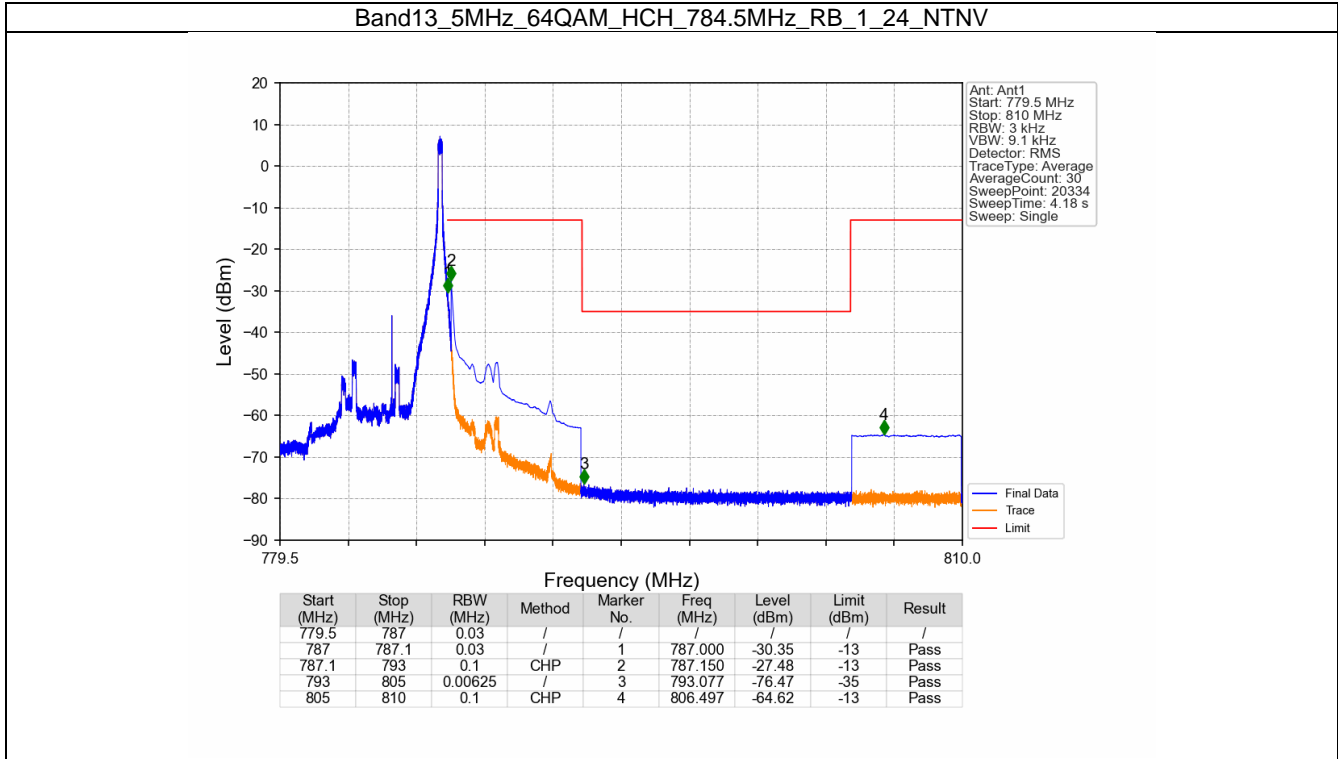
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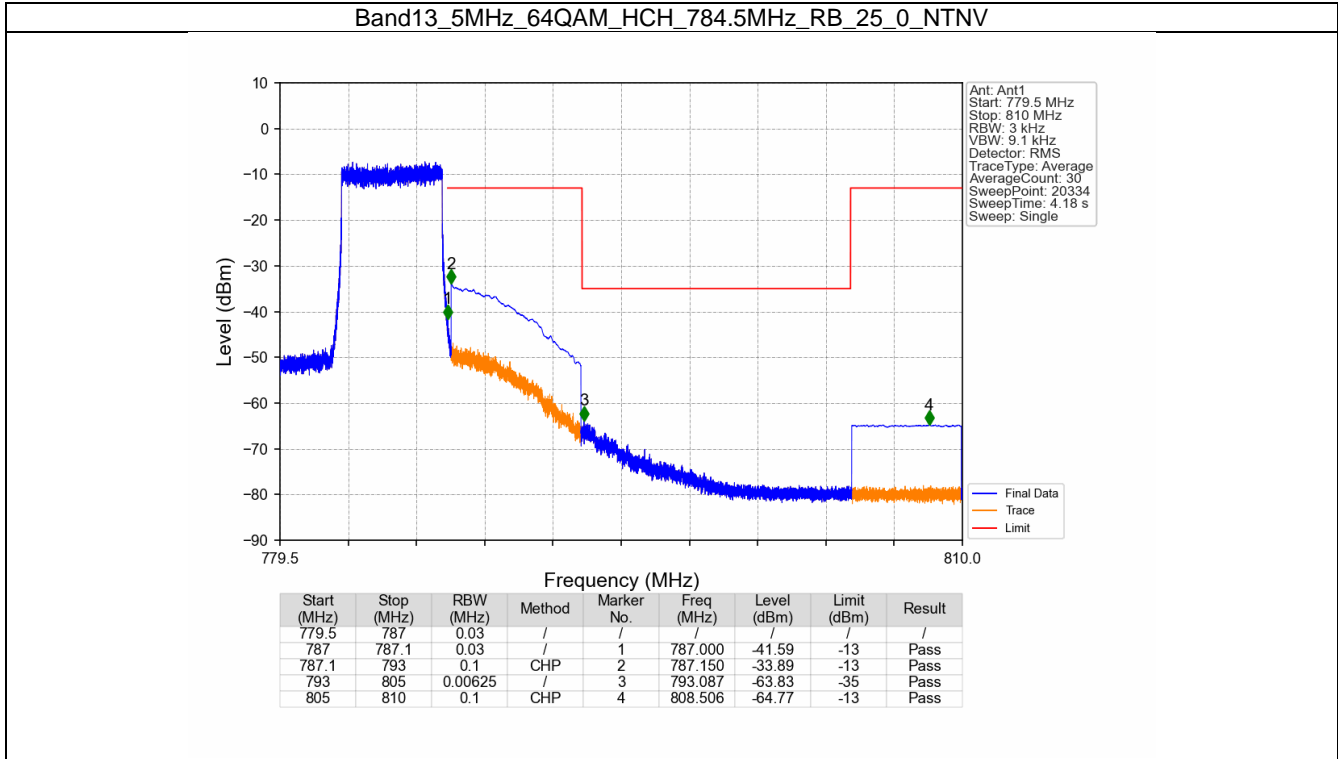
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## 5.2 B13\_10MHz

### 5.2.1 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	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
64QAM	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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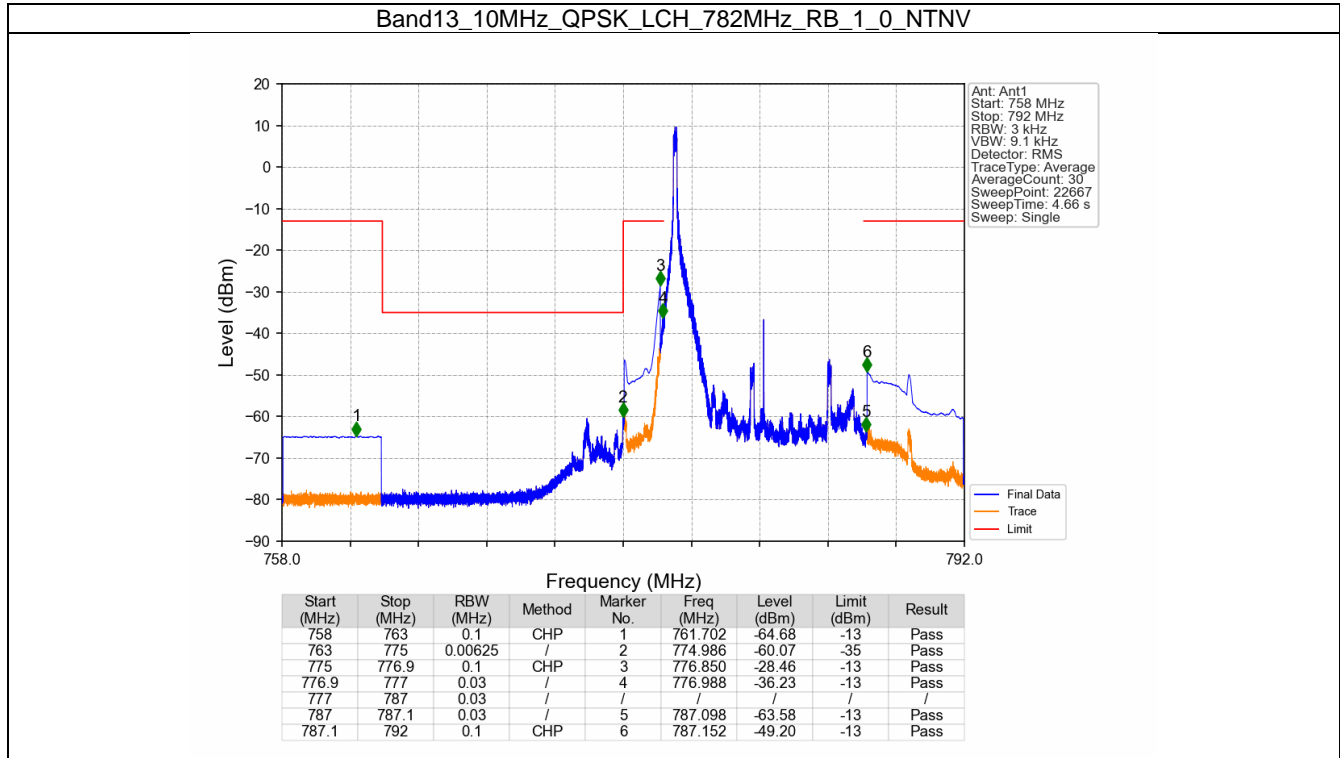




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5.2.2 Test Graph



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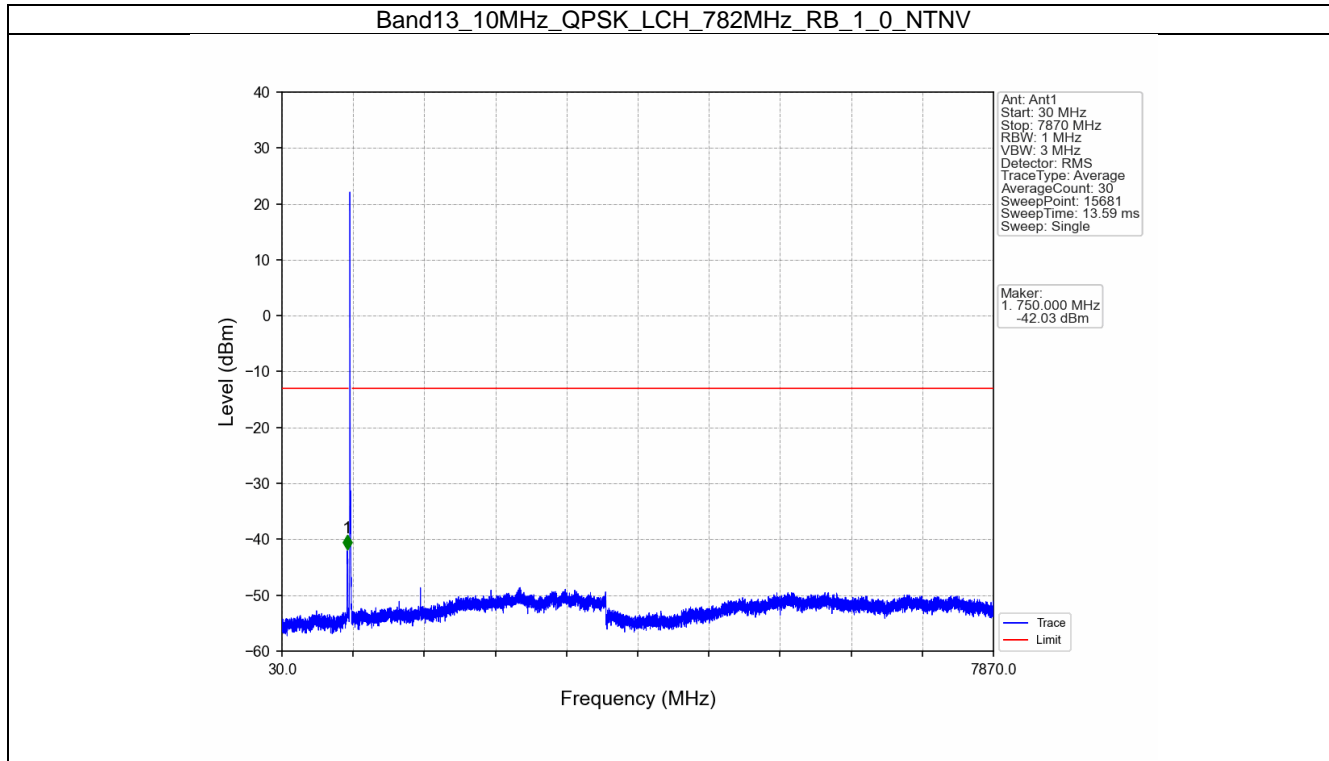


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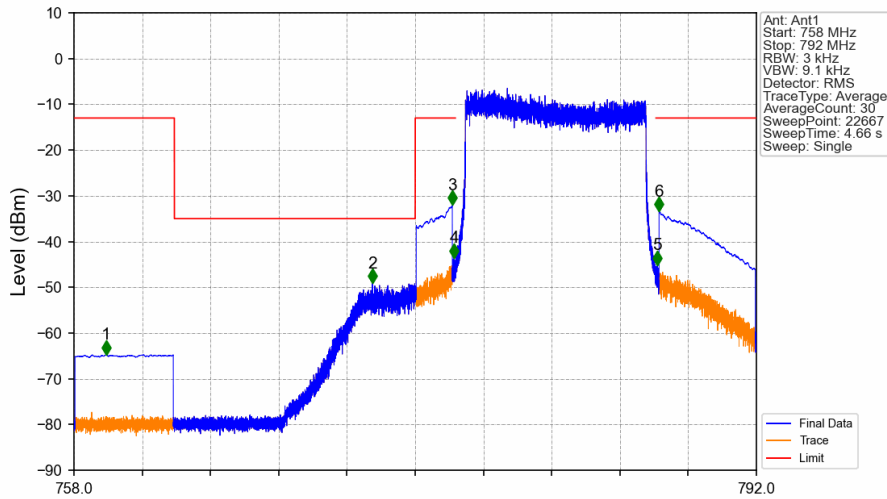
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Band13\_10MHz\_QPSK\_LCH\_782MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	759.604	-64.72	-13	Pass
763	775	0.00625	/	2	772.873	-49.09	-35	Pass
775	776.9	0.1	CHP	3	776.847	-32.04	-13	Pass
776.9	777	0.03	/	4	776.940	-43.54	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.068	-45.13	-13	Pass
787.1	792	0.1	CHP	6	787.150	-33.43	-13	Pass



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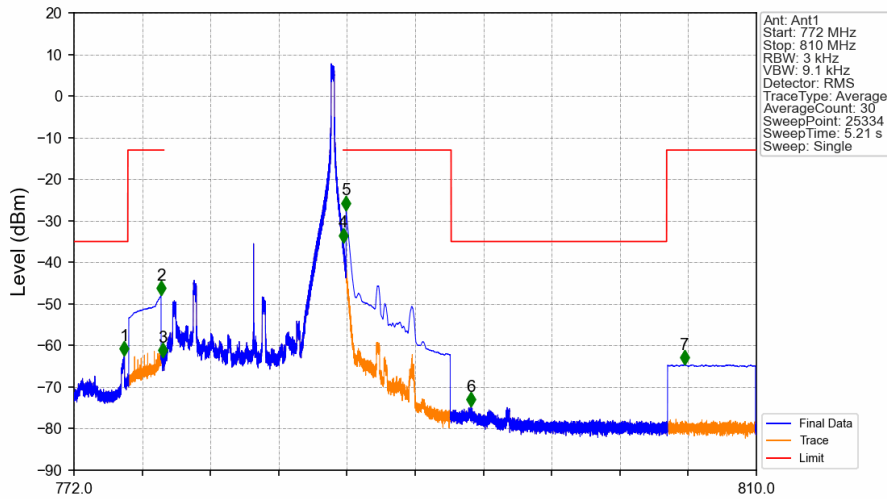
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Band13\_10MHz\_QPSK\_HCH\_782MHz\_RB\_1\_49\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.795	-62.53	-35	Pass
775	776.9	0.1	CHP	2	776.848	-47.91	-13	Pass
776.9	777	0.03	/	3	776.938	-62.81	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.002	-35.20	-13	Pass
787.1	793	0.1	CHP	5	787.150	-27.44	-13	Pass
793	805	0.00625	/	6	794.106	-74.71	-35	Pass
805	810	0.1	CHP	7	805.987	-64.64	-13	Pass



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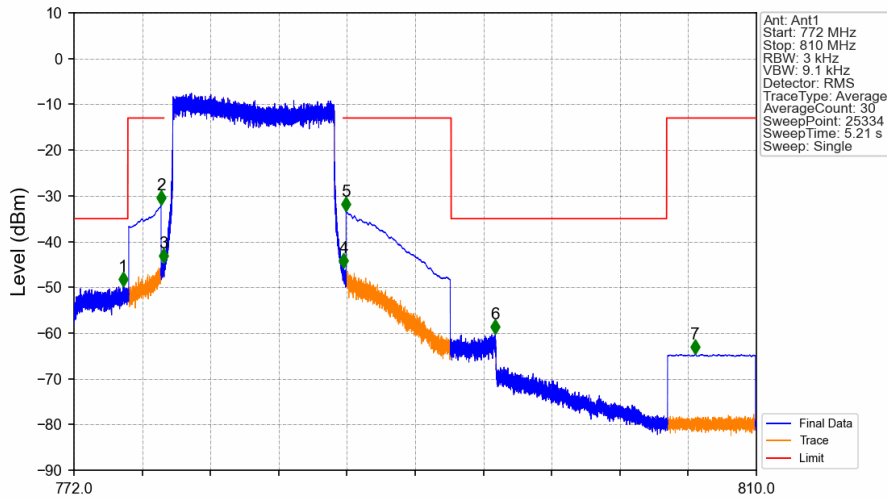
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Band13\_10MHz\_QPSK\_HCH\_782MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.723	-49.84	-35	Pass
775	776.9	0.1	CHP	2	776.850	-32.00	-13	Pass
776.9	777	0.03	/	3	776.994	-44.71	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.015	-45.80	-13	Pass
787.1	793	0.1	CHP	5	787.150	-33.39	-13	Pass
793	805	0.00625	/	6	795.460	-60.26	-35	Pass
805	810	0.1	CHP	7	806.592	-64.68	-13	Pass



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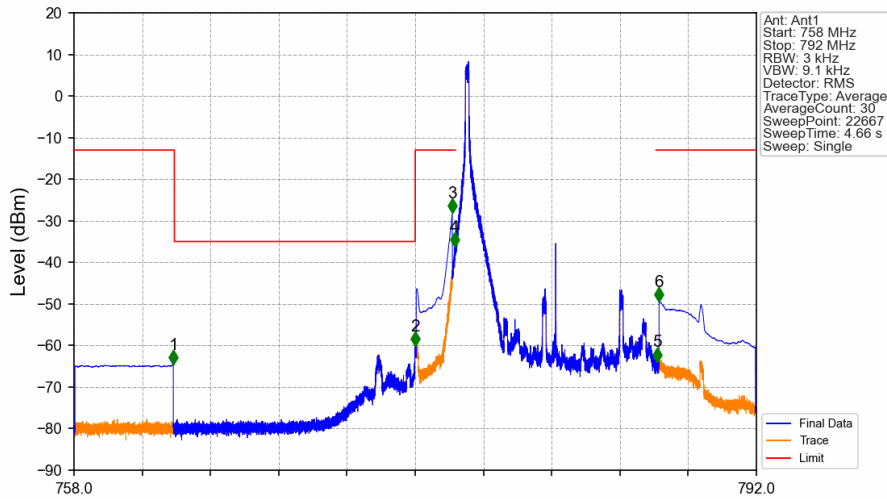




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Band13\_10MHz\_16QAM\_LCH\_782MHz\_RB\_1\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.947	-64.67	-13	Pass
763	775	0.00625	/	2	774.999	-60.21	-35	Pass
775	776.9	0.1	CHP	3	776.850	-28.20	-13	Pass
776.9	777	0.03	/	4	776.970	-36.21	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.050	-63.92	-13	Pass
787.1	792	0.1	CHP	6	787.150	-49.45	-13	Pass



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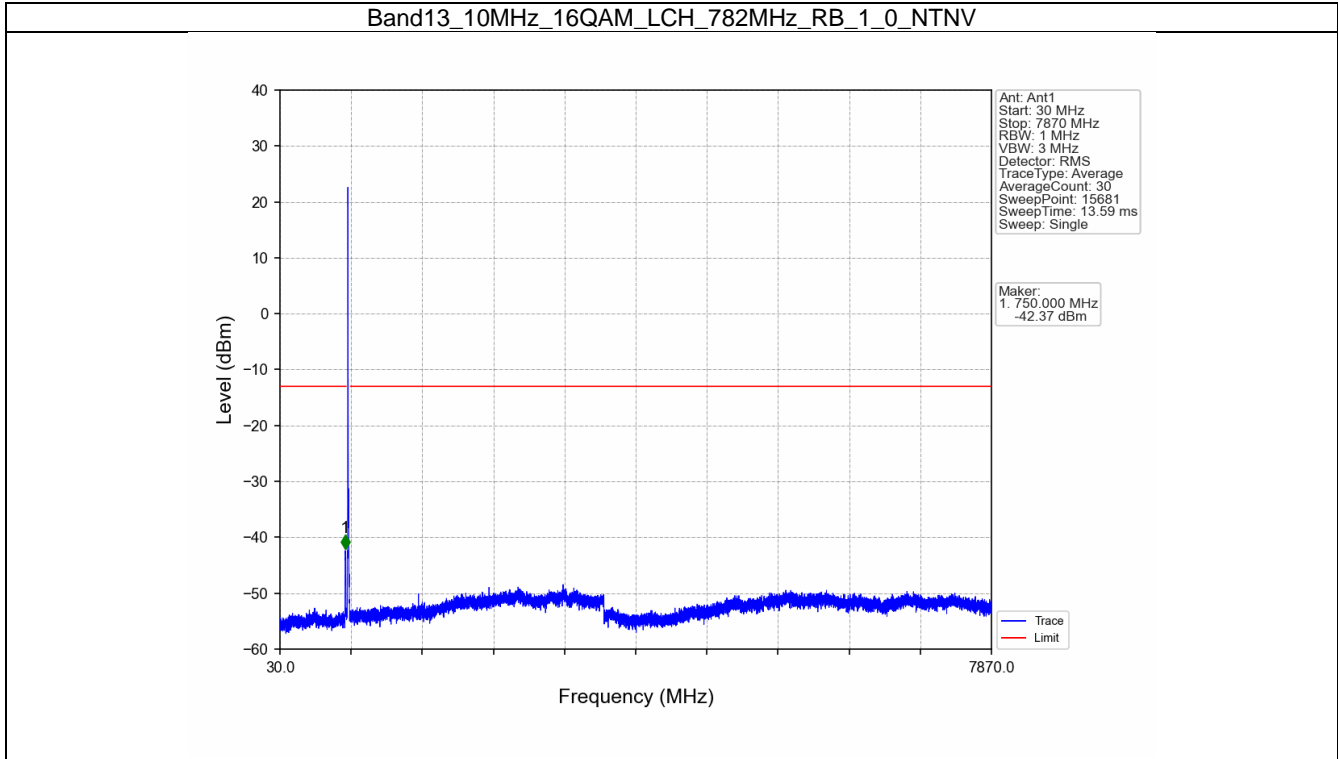
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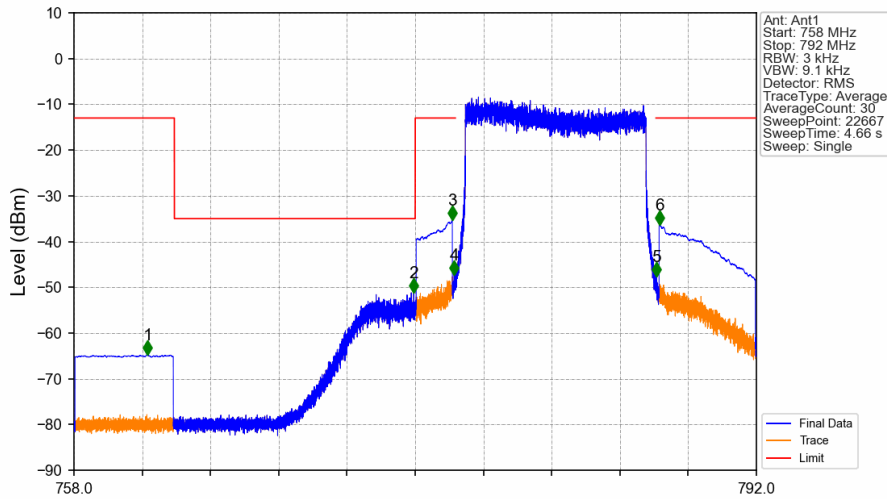
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Band13\_10MHz\_16QAM\_LCH\_782MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.662	-64.74	-13	Pass
763	775	0.00625	/	2	774.928	-51.16	-35	Pass
775	776.9	0.1	CHP	3	776.850	-35.31	-13	Pass
776.9	777	0.03	/	4	776.941	-47.27	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.020	-47.64	-13	Pass
787.1	792	0.1	CHP	6	787.173	-36.34	-13	Pass



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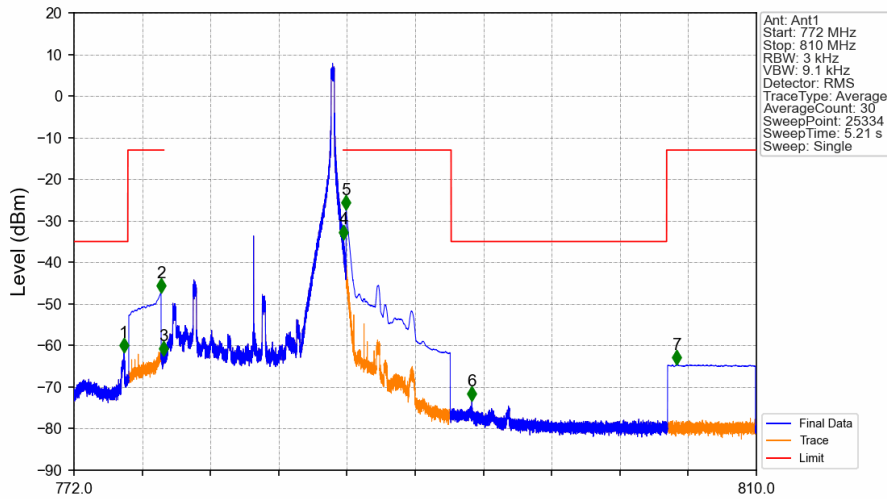
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Band13\_10MHz\_16QAM\_HCH\_782MHz\_RB\_1\_49\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.766	-61.62	-35	Pass
775	776.9	0.1	CHP	2	776.847	-47.29	-13	Pass
776.9	777	0.03	/	3	776.988	-62.54	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.015	-34.43	-13	Pass
787.1	793	0.1	CHP	5	787.150	-27.29	-13	Pass
793	805	0.00625	/	6	794.157	-73.30	-35	Pass
805	810	0.1	CHP	7	805.567	-64.63	-13	Pass



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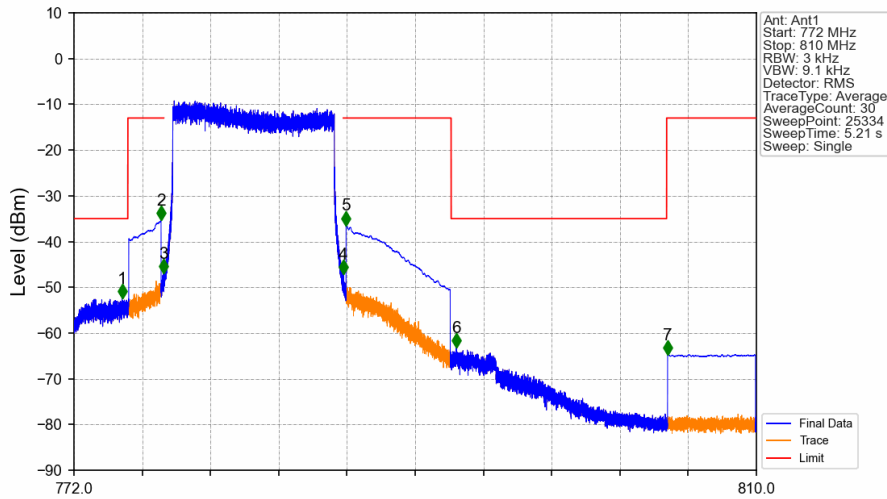
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Band13\_10MHz\_16QAM\_HCH\_782MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.673	-52.40	-35	Pass
775	776.9	0.1	CHP	2	776.850	-35.37	-13	Pass
776.9	777	0.03	/	3	776.979	-47.00	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.003	-47.14	-13	Pass
787.1	793	0.1	CHP	5	787.150	-36.48	-13	Pass
793	805	0.00625	/	6	793.287	-63.22	-35	Pass
805	810	0.1	CHP	7	805.069	-64.73	-13	Pass



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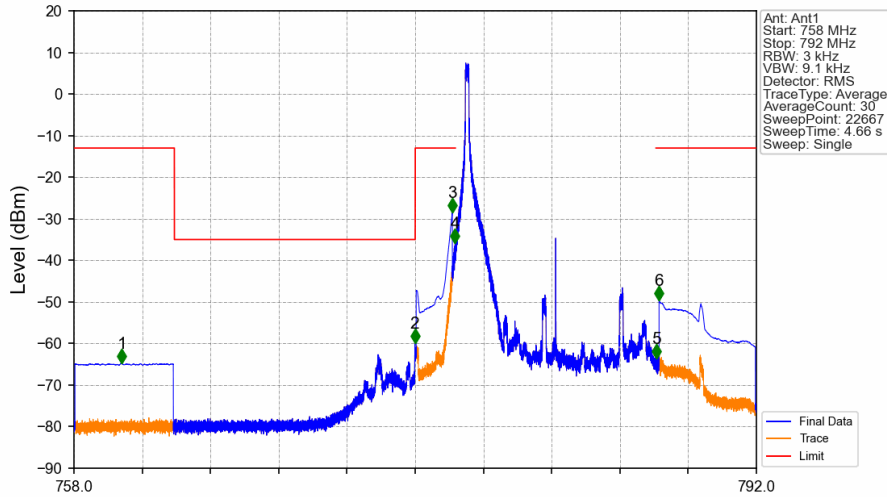
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Band13\_10MHz\_64QAM\_LCH\_782MHz\_RB\_1\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	760.381	-64.81	-13	Pass
763	775	0.00625	/	2	774.984	-59.99	-35	Pass
775	776.9	0.1	CHP	3	776.850	-28.46	-13	Pass
776.9	777	0.03	/	4	776.986	-35.94	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.032	-63.60	-13	Pass
787.1	792	0.1	CHP	6	787.150	-49.60	-13	Pass



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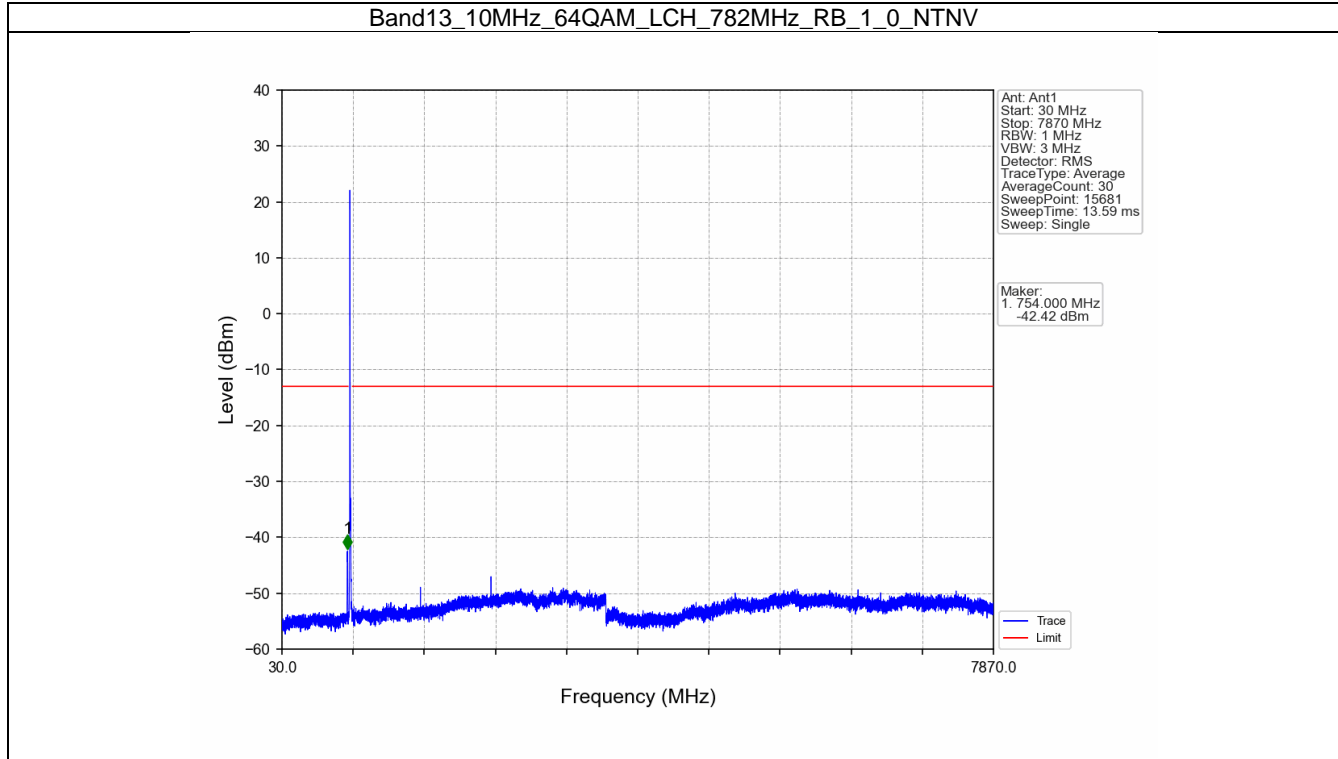


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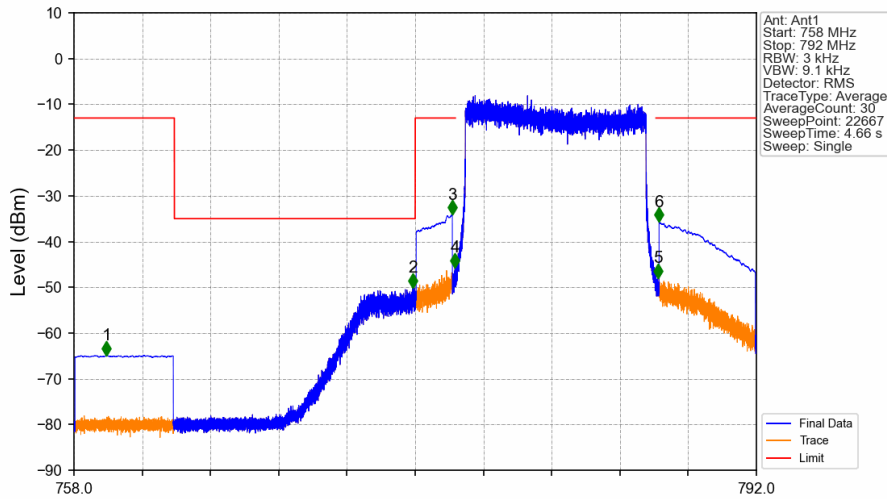




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Band13\_10MHz\_64QAM\_LCH\_782MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	759.623	-64.87	-13	Pass
763	775	0.00625	/	2	774.883	-50.07	-35	Pass
775	776.9	0.1	CHP	3	776.832	-34.05	-13	Pass
776.9	777	0.03	/	4	776.983	-45.65	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.081	-47.96	-13	Pass
787.1	792	0.1	CHP	6	787.150	-35.66	-13	Pass



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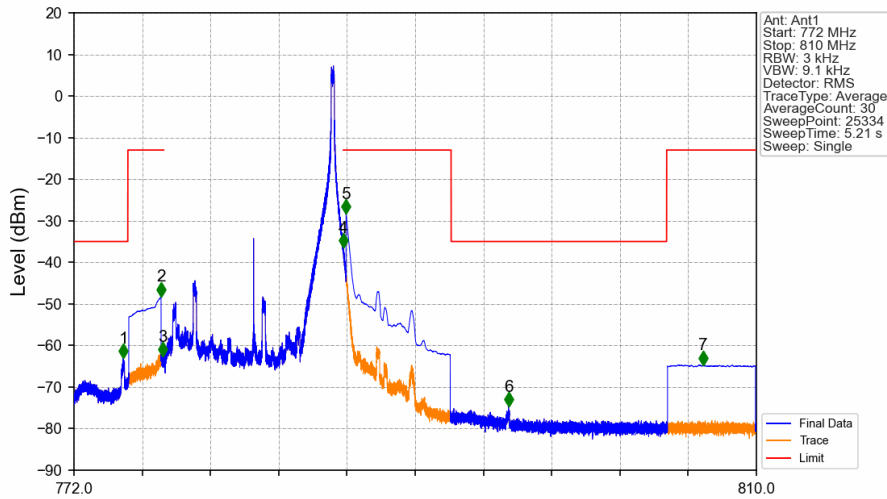
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Band13\_10MHz\_64QAM\_HCH\_782MHz\_RB\_1\_49\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.762	-63.10	-35	Pass
775	776.9	0.1	CHP	2	776.841	-48.19	-13	Pass
776.9	777	0.03	/	3	776.955	-62.59	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.002	-36.46	-13	Pass
787.1	793	0.1	CHP	5	787.150	-28.36	-13	Pass
793	805	0.00625	/	6	796.197	-74.65	-35	Pass
805	810	0.1	CHP	7	807.040	-64.68	-13	Pass



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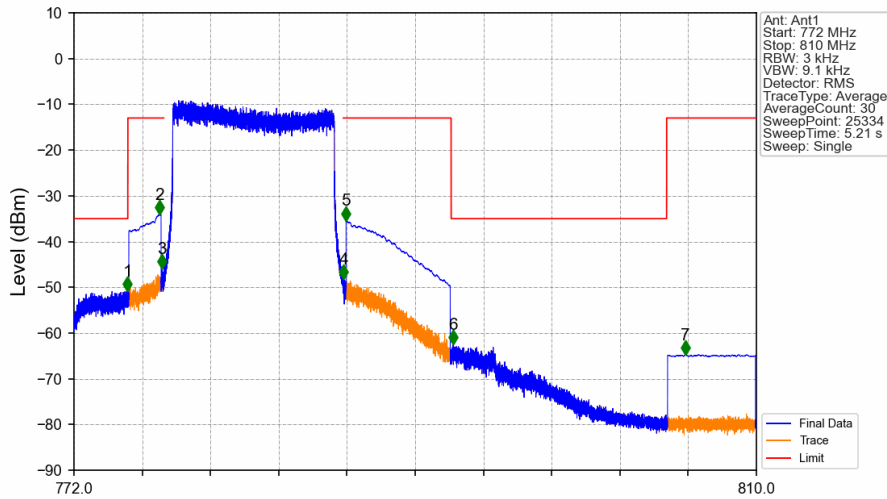
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Band13\_10MHz\_64QAM\_HCH\_782MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.987	-50.89	-35	Pass
775	776.9	0.1	CHP	2	776.770	-34.07	-13	Pass
776.9	777	0.03	/	3	776.905	-45.87	-13	Pass
777	787.1	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.024	-48.27	-13	Pass
787.1	793	0.1	CHP	5	787.150	-35.43	-13	Pass
793	805	0.00625	/	6	793.114	-62.55	-35	Pass
805	810	0.1	CHP	7	806.056	-64.73	-13	Pass



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## 6. Field Strength of Spurious Radiation

Test Band = B13\_10M ANTO\_TM1

Test Channel = mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.0000	53.69	24.67	-48.96	-65.86	-13.00	52.86	Horizontal
2	2332.5000	45.47	27.00	-48.26	-71.05	-13.00	58.05	Horizontal
3	3110.0000	45.10	28.62	-47.80	-69.34	-13.00	56.34	Horizontal
4	3887.5000	44.39	29.32	-47.20	-68.75	-13.00	55.75	Horizontal
5	4665.0000	45.01	30.60	-46.99	-66.64	-13.00	53.64	Horizontal
6	5442.5000	44.83	32.46	-46.83	-64.80	-13.00	51.80	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.0000	51.79	24.67	-48.96	-67.76	-13.00	54.76	Vertical
2	2332.5000	45.32	27.00	-48.26	-71.20	-13.00	58.20	Vertical
3	3110.0000	45.11	28.62	-47.80	-69.33	-13.00	56.33	Vertical
4	3887.5000	44.61	29.32	-47.20	-68.53	-13.00	55.53	Vertical
5	4665.0000	45.62	30.60	-46.99	-66.03	-13.00	53.03	Vertical
6	5442.5000	44.63	32.46	-46.83	-65.00	-13.00	52.00	Vertical



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Test Band = B13\_5M ANT0\_TM1

Test Channel = low

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.5000	52.37	24.66	-48.97	-67.20	-13.00	54.20	Horizontal
2	2331.7500	46.49	27.00	-48.26	-70.03	-13.00	57.03	Horizontal
3	3109.0000	44.84	28.62	-47.81	-69.61	-13.00	56.61	Horizontal
4	3886.2500	44.94	29.32	-47.20	-68.20	-13.00	55.20	Horizontal
5	4663.5000	44.42	30.59	-46.99	-67.24	-13.00	54.24	Horizontal
6	5440.7500	44.60	32.46	-46.83	-65.03	-13.00	52.03	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.5000	52.67	24.66	-48.97	-66.90	-13.00	53.90	Vertical
2	2331.7500	45.48	27.00	-48.26	-71.04	-13.00	58.04	Vertical
3	3109.0000	45.11	28.62	-47.81	-69.34	-13.00	56.34	Vertical
4	3886.2500	45.49	29.32	-47.20	-67.65	-13.00	54.65	Vertical
5	4663.5000	44.28	30.59	-46.99	-67.38	-13.00	54.38	Vertical
6	5440.7500	44.80	32.46	-46.83	-64.83	-13.00	51.83	Vertical



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Test Band = B13\_5M ANT0\_TM1  
Test Channel = mid

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.5000	46.80	24.68	-48.96	-72.74	-13.00	59.74	Horizontal
2	2339.2500	44.63	27.01	-48.26	-71.88	-13.00	58.88	Horizontal
3	3119.0000	44.31	28.62	-47.76	-70.09	-13.00	57.09	Horizontal
4	3898.7500	44.29	29.34	-47.16	-68.79	-13.00	55.79	Horizontal
5	4678.5000	43.84	30.63	-46.99	-67.78	-13.00	54.78	Horizontal
6	5458.2500	44.62	32.50	-46.88	-65.02	-13.00	52.02	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dB $\mu$ V]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.5000	46.81	24.68	-48.96	-72.73	-13.00	59.73	Vertical
2	2339.2500	44.77	27.01	-48.26	-71.74	-13.00	58.74	Vertical
3	3119.0000	44.69	28.62	-47.76	-69.71	-13.00	56.71	Vertical
4	3898.7500	44.14	29.34	-47.16	-68.94	-13.00	55.94	Vertical
5	4678.5000	44.21	30.63	-46.99	-67.41	-13.00	54.41	Vertical
6	5458.2500	44.23	32.50	-46.88	-65.41	-13.00	52.41	Vertical



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**Test Band = B13\_5M ANT0\_ TM1**  
**Test Channel = high**

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.5000	48.02	24.69	-48.96	-71.51	-13.00	58.51	Horizontal
2	2346.7500	45.47	27.03	-48.26	-71.02	-13.00	58.02	Horizontal
3	3129.0000	44.17	28.63	-47.71	-70.17	-13.00	57.17	Horizontal
4	3911.2500	44.42	29.36	-47.18	-68.66	-13.00	55.66	Horizontal
5	4693.5000	44.31	30.66	-46.98	-67.27	-13.00	54.27	Horizontal
6	5475.7500	44.08	32.54	-46.93	-65.57	-13.00	52.57	Horizontal

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.5000	46.62	24.69	-48.96	-72.91	-13.00	59.91	Vertical
2	2346.7500	45.21	27.03	-48.26	-71.28	-13.00	58.28	Vertical
3	3129.0000	44.74	28.63	-47.71	-69.60	-13.00	56.60	Vertical
4	3911.2500	44.12	29.36	-47.18	-68.96	-13.00	55.96	Vertical
5	4693.5000	43.73	30.66	-46.98	-67.85	-13.00	54.85	Vertical
6	5475.7500	44.27	32.54	-46.93	-65.38	-13.00	52.38	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

2) All antennas of RSE are tested, and only the worst data is presented.

---End of Attachment---



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