



Appendix B.11

LTE Band 13



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1. Frequency Stability

1.1 B13_5MHz

1.1.1 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	3.8	-1.284	-0.0016	-2.5 to 2.5	Pass
					4.0	3.131	0.0040	-2.5 to 2.5	Pass
					4.2	-1.292	-0.0017	-2.5 to 2.5	Pass
				-30	4.0	0.019	0.0000	-2.5 to 2.5	Pass
				-20	4.0	0.253	0.0003	-2.5 to 2.5	Pass
				-10	4.0	4.420	0.0057	-2.5 to 2.5	Pass
				0	4.0	2.784	0.0036	-2.5 to 2.5	Pass
				10	4.0	-2.565	-0.0033	-2.5 to 2.5	Pass
				30	4.0	1.932	0.0025	-2.5 to 2.5	Pass
				40	4.0	0.763	0.0010	-2.5 to 2.5	Pass
				50	4.0	-3.468	-0.0044	-2.5 to 2.5	Pass
	782	25	0	20	3.8	0.684	0.0009	-2.5 to 2.5	Pass
					4.0	-0.149	-0.0002	-2.5 to 2.5	Pass
					4.2	-0.255	-0.0003	-2.5 to 2.5	Pass
				-30	4.0	4.889	0.0063	-2.5 to 2.5	Pass
				-20	4.0	-2.313	-0.0030	-2.5 to 2.5	Pass
				-10	4.0	0.203	0.0003	-2.5 to 2.5	Pass
				0	4.0	2.121	0.0027	-2.5 to 2.5	Pass
				10	4.0	0.319	0.0004	-2.5 to 2.5	Pass
				30	4.0	5.852	0.0075	-2.5 to 2.5	Pass
				40	4.0	4.777	0.0061	-2.5 to 2.5	Pass
				50	4.0	1.387	0.0018	-2.5 to 2.5	Pass
	784.5	25	0	20	3.8	0.768	0.0010	-2.5 to 2.5	Pass
					4.0	-1.828	-0.0023	-2.5 to 2.5	Pass
					4.2	3.770	0.0048	-2.5 to 2.5	Pass
				-30	4.0	-2.390	-0.0030	-2.5 to 2.5	Pass
				-20	4.0	-2.240	-0.0029	-2.5 to 2.5	Pass
				-10	4.0	-1.776	-0.0023	-2.5 to 2.5	Pass
				0	4.0	-1.573	-0.0020	-2.5 to 2.5	Pass
				10	4.0	4.708	0.0060	-2.5 to 2.5	Pass
				30	4.0	3.618	0.0046	-2.5 to 2.5	Pass
				40	4.0	0.512	0.0007	-2.5 to 2.5	Pass
				50	4.0	4.914	0.0063	-2.5 to 2.5	Pass
16QAM	779.5	25	0	20	3.8	3.615	0.0046	-2.5 to 2.5	Pass
					4.0	1.040	0.0013	-2.5 to 2.5	Pass
					4.2	3.322	0.0043	-2.5 to 2.5	Pass
				-30	4.0	-1.893	-0.0024	-2.5 to 2.5	Pass
				-20	4.0	2.034	0.0026	-2.5 to 2.5	Pass
				-10	4.0	-2.987	-0.0038	-2.5 to 2.5	Pass
				0	4.0	-2.416	-0.0031	-2.5 to 2.5	Pass
				10	4.0	3.137	0.0040	-2.5 to 2.5	Pass
				30	4.0	-0.471	-0.0006	-2.5 to 2.5	Pass
				40	4.0	2.483	0.0032	-2.5 to 2.5	Pass

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	782	25	0	50	4.0	-1.515	-0.0019	-2.5 to 2.5	Pass
				20	3.8	-0.391	-0.0005	-2.5 to 2.5	Pass
					4.0	-1.216	-0.0016	-2.5 to 2.5	Pass
					4.2	-2.652	-0.0034	-2.5 to 2.5	Pass
				-30	4.0	0.015	0.0000	-2.5 to 2.5	Pass
				-20	4.0	-3.203	-0.0041	-2.5 to 2.5	Pass
				-10	4.0	3.237	0.0041	-2.5 to 2.5	Pass
				0	4.0	-1.090	-0.0014	-2.5 to 2.5	Pass
				10	4.0	1.024	0.0013	-2.5 to 2.5	Pass
				30	4.0	-0.266	-0.0003	-2.5 to 2.5	Pass
	784.5	25	0	40	4.0	-0.116	-0.0001	-2.5 to 2.5	Pass
				50	4.0	-0.364	-0.0005	-2.5 to 2.5	Pass
				20	3.8	-1.463	-0.0019	-2.5 to 2.5	Pass
					4.0	1.896	0.0024	-2.5 to 2.5	Pass
					4.2	-1.465	-0.0019	-2.5 to 2.5	Pass
				-30	4.0	-1.831	-0.0023	-2.5 to 2.5	Pass
				-20	4.0	-0.619	-0.0008	-2.5 to 2.5	Pass
				-10	4.0	-0.819	-0.0010	-2.5 to 2.5	Pass
				0	4.0	-3.831	-0.0049	-2.5 to 2.5	Pass
				10	4.0	0.723	0.0009	-2.5 to 2.5	Pass
64QAM	779.5	25	0	30	4.0	-3.489	-0.0044	-2.5 to 2.5	Pass
				40	4.0	3.904	0.0050	-2.5 to 2.5	Pass
				50	4.0	3.932	0.0050	-2.5 to 2.5	Pass
				20	3.8	-0.082	-0.0001	-2.5 to 2.5	Pass
					4.0	0.580	0.0007	-2.5 to 2.5	Pass
					4.2	1.024	0.0013	-2.5 to 2.5	Pass
				-30	4.0	0.771	0.0010	-2.5 to 2.5	Pass
				-20	4.0	0.747	0.0010	-2.5 to 2.5	Pass
				-10	4.0	-1.036	-0.0013	-2.5 to 2.5	Pass
				0	4.0	-3.651	-0.0047	-2.5 to 2.5	Pass
	782	25	0	10	4.0	-1.514	-0.0019	-2.5 to 2.5	Pass
				30	4.0	-0.685	-0.0009	-2.5 to 2.5	Pass
				40	4.0	-3.873	-0.0050	-2.5 to 2.5	Pass
				50	4.0	2.759	0.0035	-2.5 to 2.5	Pass
				20	3.8	1.833	0.0023	-2.5 to 2.5	Pass
					4.0	-0.056	-0.0001	-2.5 to 2.5	Pass
					4.2	0.228	0.0003	-2.5 to 2.5	Pass
				-30	4.0	3.121	0.0040	-2.5 to 2.5	Pass
				-20	4.0	0.226	0.0003	-2.5 to 2.5	Pass
				-10	4.0	-0.291	-0.0004	-2.5 to 2.5	Pass
	784.5	25	0	0	4.0	-0.073	-0.0001	-2.5 to 2.5	Pass
				10	4.0	-0.558	-0.0007	-2.5 to 2.5	Pass
				30	4.0	-1.918	-0.0025	-2.5 to 2.5	Pass
				40	4.0	1.324	0.0017	-2.5 to 2.5	Pass
				50	4.0	3.489	0.0045	-2.5 to 2.5	Pass
				20	3.8	3.858	0.0049	-2.5 to 2.5	Pass
					4.0	-1.496	-0.0019	-2.5 to 2.5	Pass
					4.2	3.932	0.0050	-2.5 to 2.5	Pass
				-30	4.0	1.577	0.0020	-2.5 to 2.5	Pass
				-20	4.0	2.494	0.0032	-2.5 to 2.5	Pass
				-10	4.0	-1.292	-0.0016	-2.5 to 2.5	Pass
				0	4.0	3.936	0.0050	-2.5 to 2.5	Pass
				10	4.0	-2.597	-0.0033	-2.5 to 2.5	Pass



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				30	4.0	1.537	0.0020	-2.5 to 2.5	Pass
				40	4.0	-0.139	-0.0002	-2.5 to 2.5	Pass
				50	4.0	-1.628	-0.0021	-2.5 to 2.5	Pass



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1.2 B13_10MHz

1.2.1 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	3.8	1.110	0.0014	-2.5 to 2.5	Pass
					4.0	-4.198	-0.0054	-2.5 to 2.5	Pass
					4.2	-0.858	-0.0011	-2.5 to 2.5	Pass
				-30	4.0	3.950	0.0051	-2.5 to 2.5	Pass
				-20	4.0	3.034	0.0039	-2.5 to 2.5	Pass
				-10	4.0	1.857	0.0024	-2.5 to 2.5	Pass
				0	4.0	2.528	0.0032	-2.5 to 2.5	Pass
				10	4.0	-2.877	-0.0037	-2.5 to 2.5	Pass
				30	4.0	-1.939	-0.0025	-2.5 to 2.5	Pass
				40	4.0	-0.050	-0.0001	-2.5 to 2.5	Pass
				50	4.0	-4.072	-0.0052	-2.5 to 2.5	Pass
16QAM	782	50	0	20	3.8	3.393	0.0043	-2.5 to 2.5	Pass
					4.0	-2.502	-0.0032	-2.5 to 2.5	Pass
					4.2	0.189	0.0002	-2.5 to 2.5	Pass
				-30	4.0	-2.691	-0.0034	-2.5 to 2.5	Pass
				-20	4.0	0.298	0.0004	-2.5 to 2.5	Pass
				-10	4.0	-1.812	-0.0023	-2.5 to 2.5	Pass
				0	4.0	0.614	0.0008	-2.5 to 2.5	Pass
				10	4.0	-4.331	-0.0055	-2.5 to 2.5	Pass
				30	4.0	4.315	0.0055	-2.5 to 2.5	Pass
				40	4.0	-2.208	-0.0028	-2.5 to 2.5	Pass
				50	4.0	2.381	0.0030	-2.5 to 2.5	Pass
64QAM	782	50	0	20	3.8	0.910	0.0012	-2.5 to 2.5	Pass
					4.0	-3.151	-0.0040	-2.5 to 2.5	Pass
					4.2	1.457	0.0019	-2.5 to 2.5	Pass
				-30	4.0	-1.793	-0.0023	-2.5 to 2.5	Pass
				-20	4.0	-3.115	-0.0040	-2.5 to 2.5	Pass
				-10	4.0	-1.872	-0.0024	-2.5 to 2.5	Pass
				0	4.0	-2.676	-0.0034	-2.5 to 2.5	Pass
				10	4.0	-2.216	-0.0028	-2.5 to 2.5	Pass
				30	4.0	2.943	0.0038	-2.5 to 2.5	Pass
				40	4.0	-0.827	-0.0011	-2.5 to 2.5	Pass
				50	4.0	4.037	0.0052	-2.5 to 2.5	Pass



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2. 99% & 26dB Bandwidth

2.1 Band13_OBW

2.1.1 Test Result

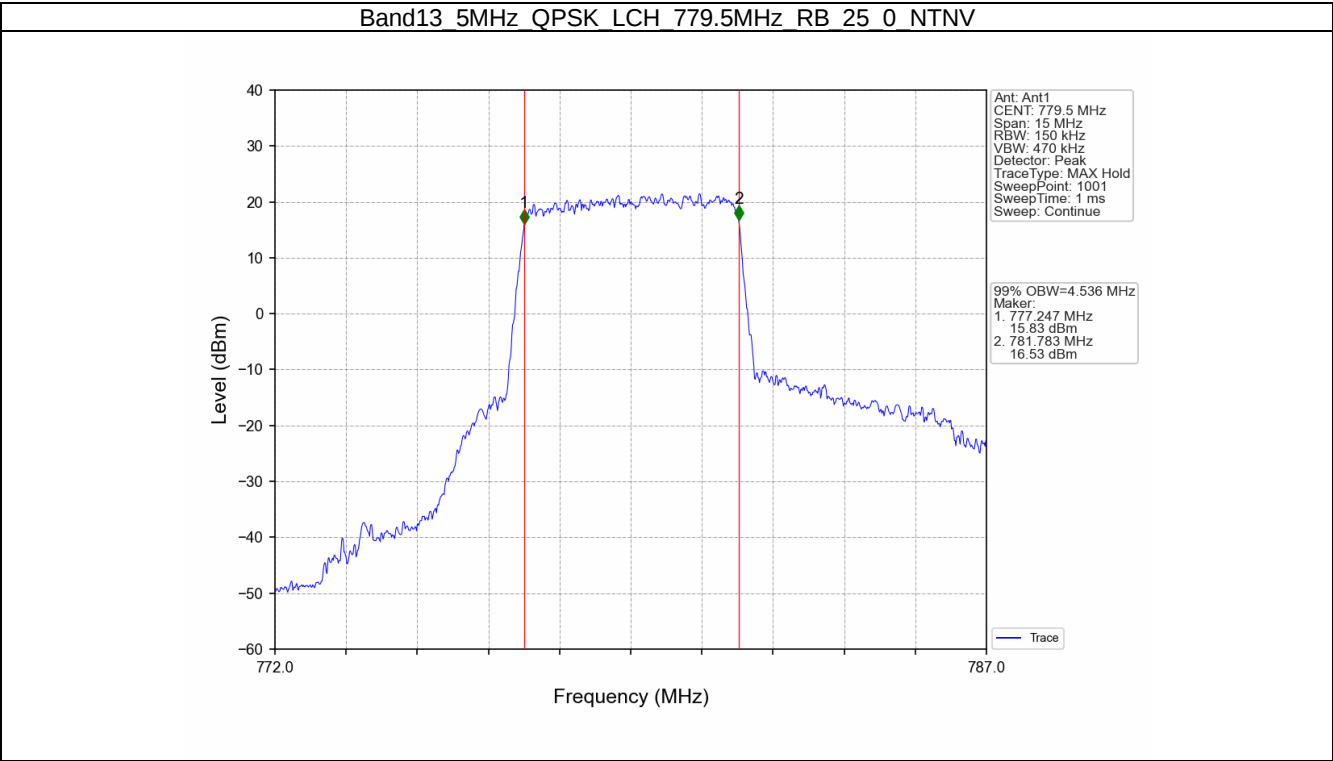
Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	779.5	25	0	4.536	/	Pass
		782	25	0	4.546	/	Pass
		784.5	25	0	4.566	/	Pass
	16QAM	779.5	25	0	4.550	/	Pass
		782	25	0	4.547	/	Pass
		784.5	25	0	4.542	/	Pass
	64QAM	779.5	25	0	4.553	/	Pass
		782	25	0	4.550	/	Pass
		784.5	25	0	4.553	/	Pass
10	QPSK	782	50	0	9.012	/	Pass
	16QAM	782	50	0	9.041	/	Pass
	64QAM	782	50	0	9.031	/	Pass



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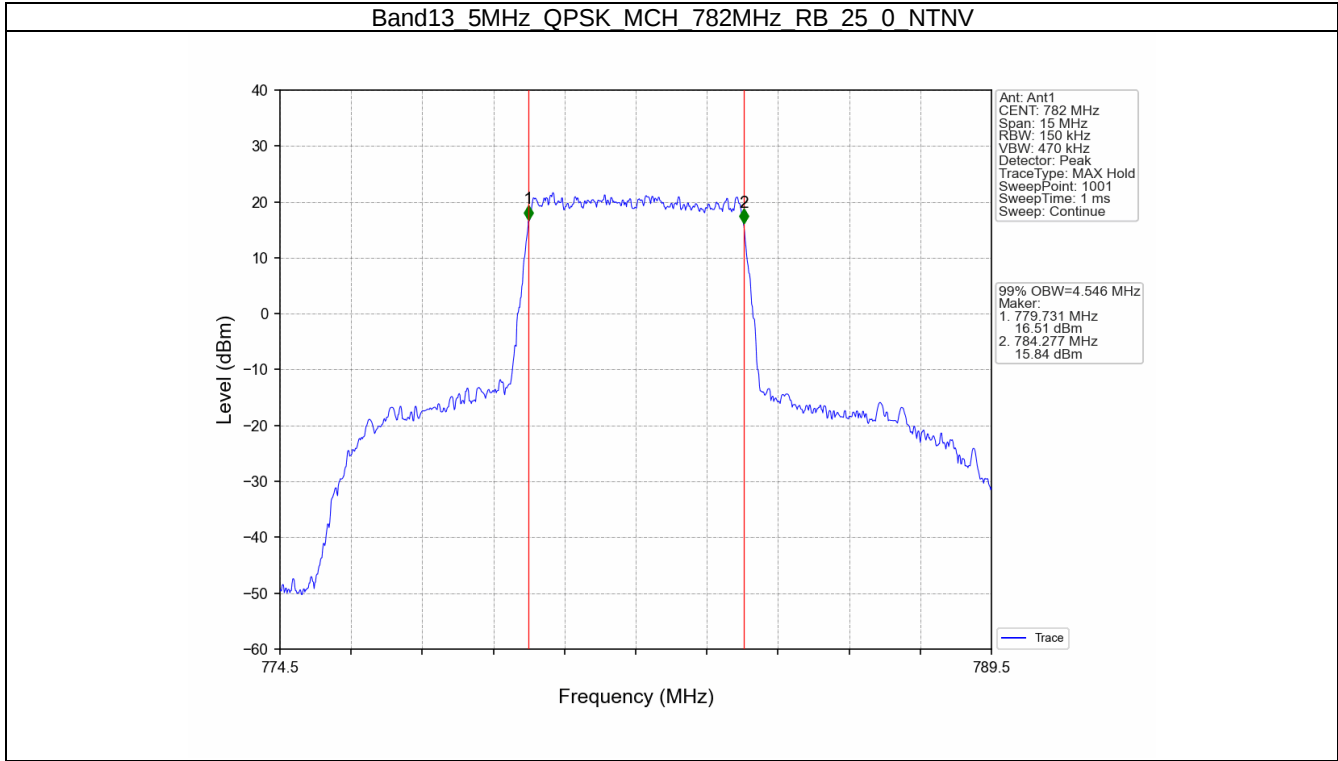
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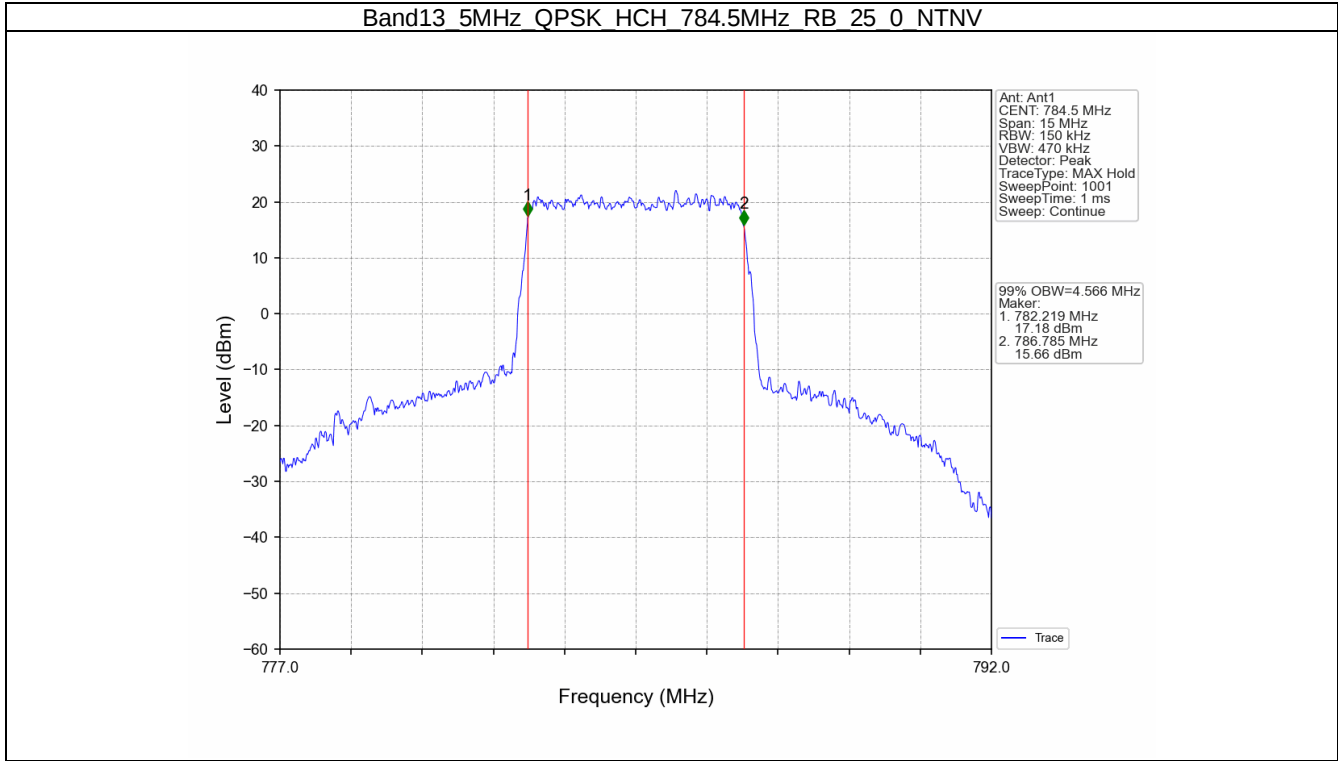
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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

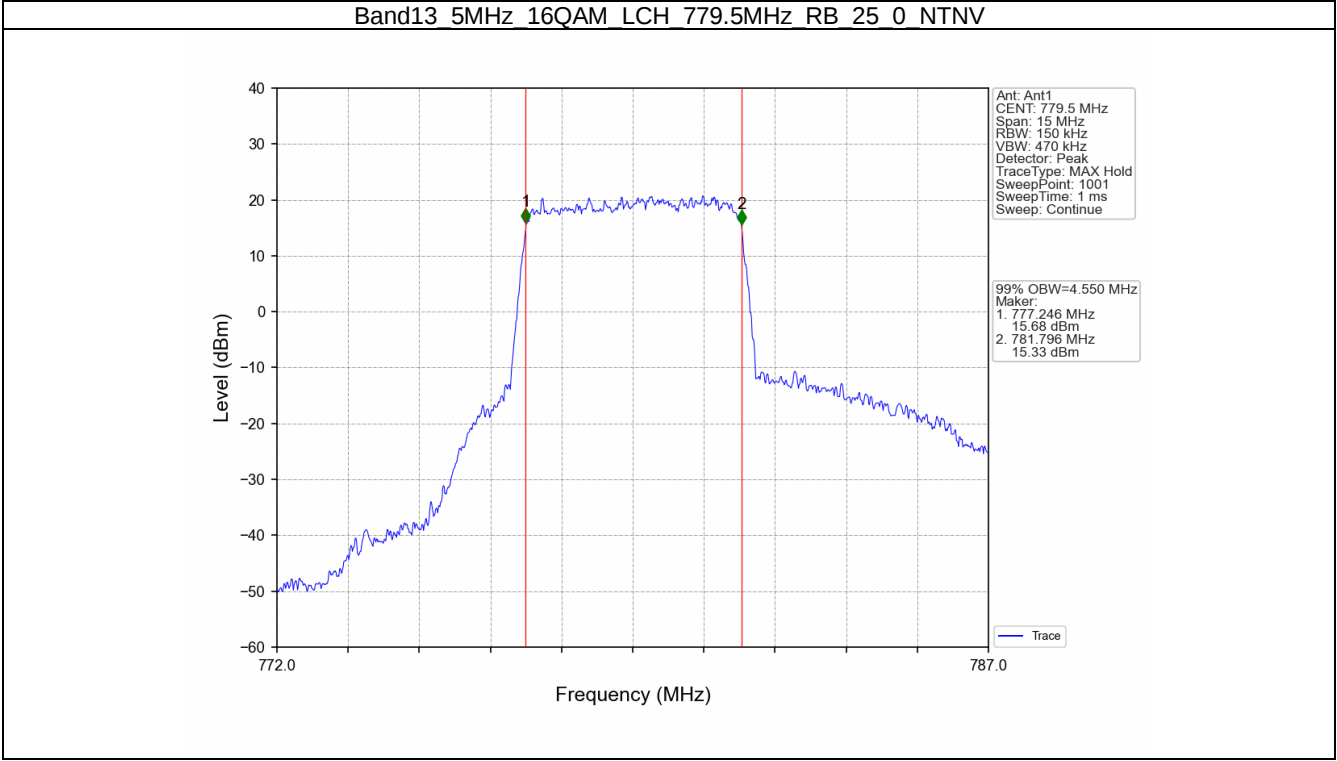
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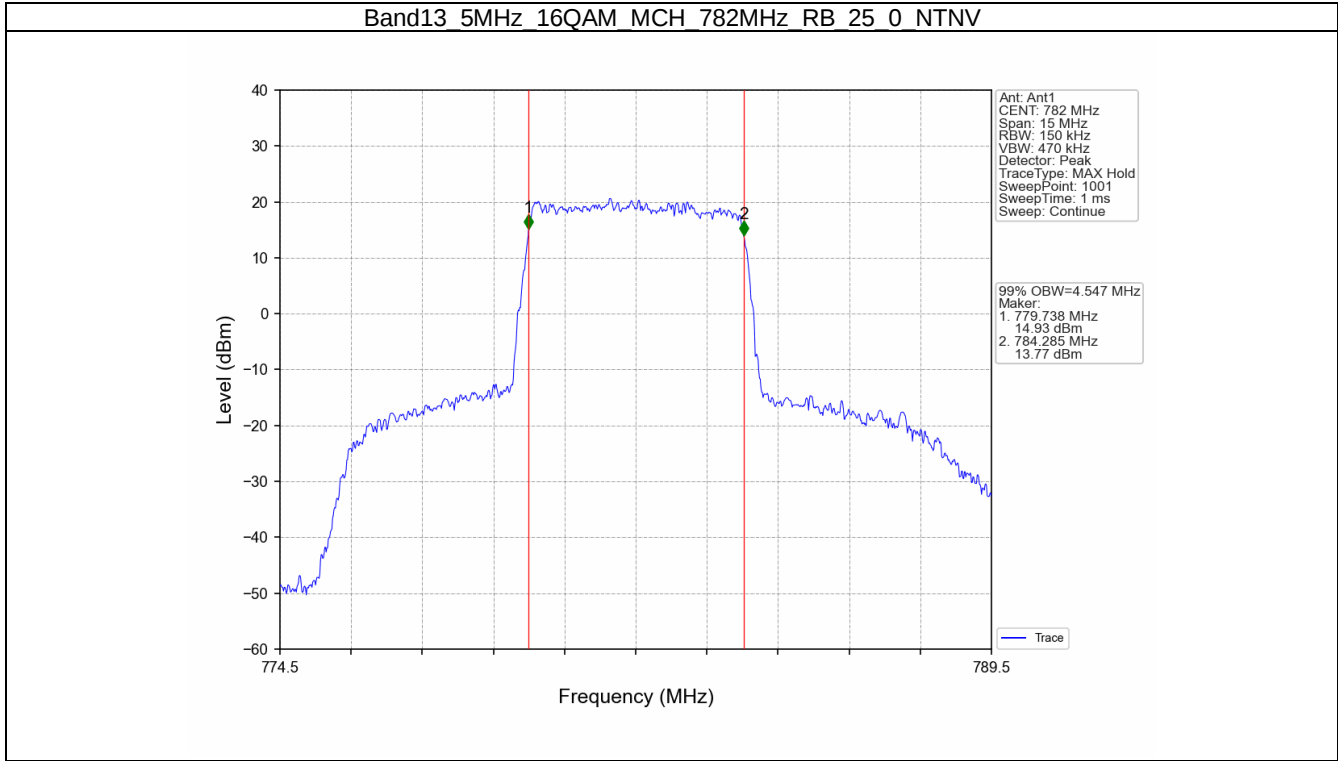




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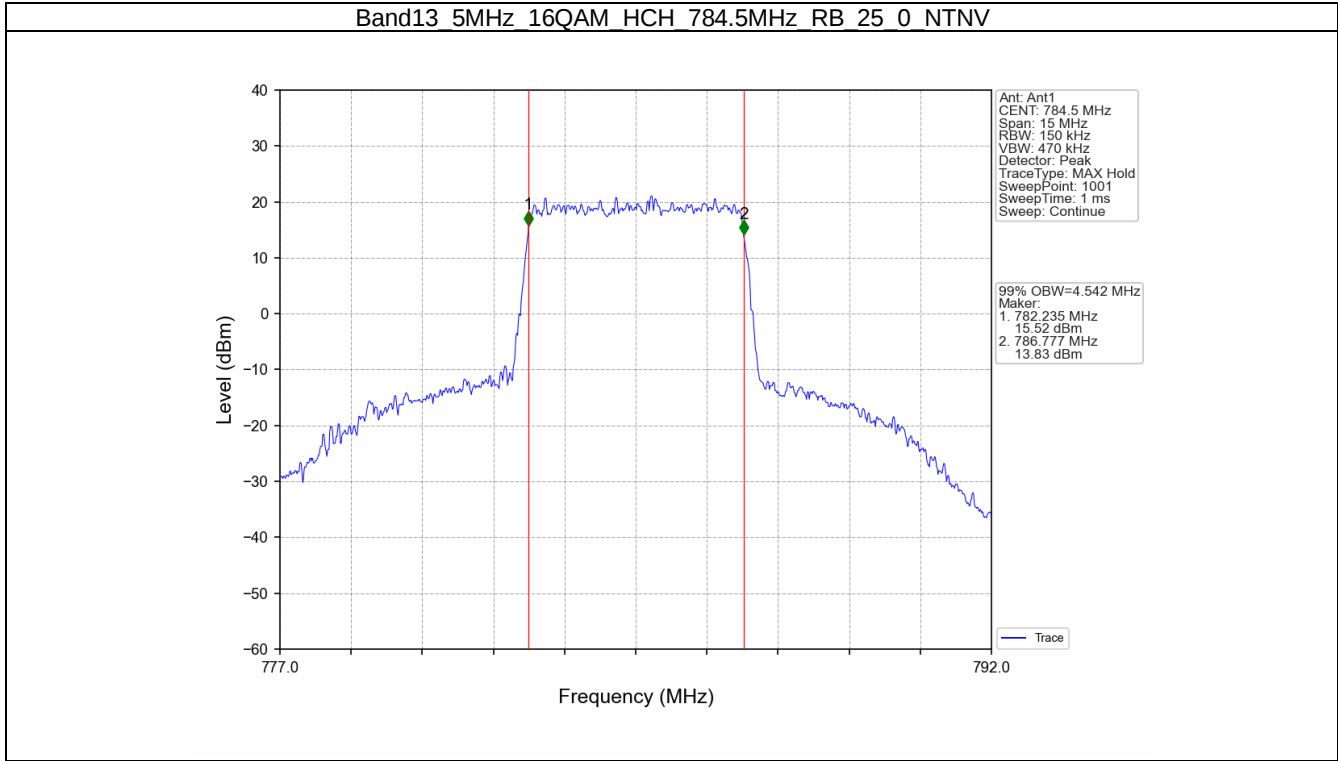
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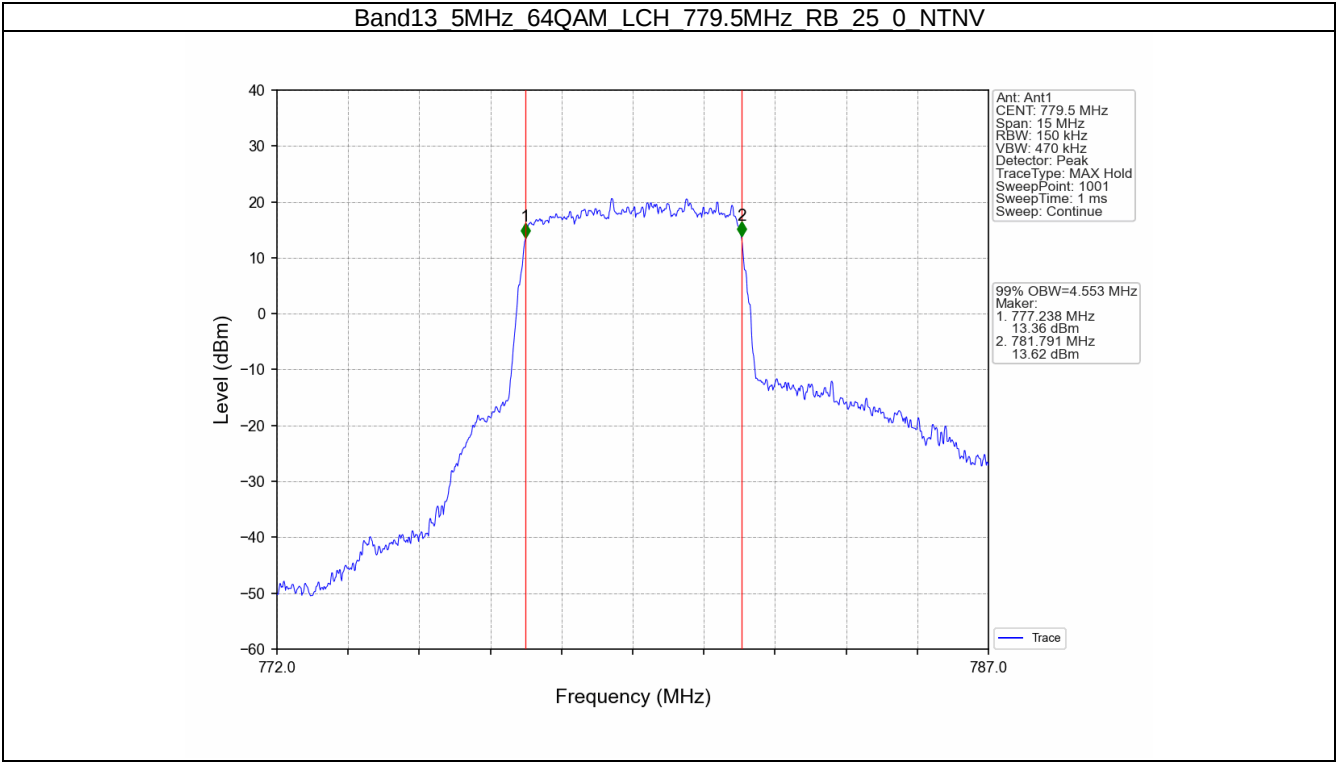
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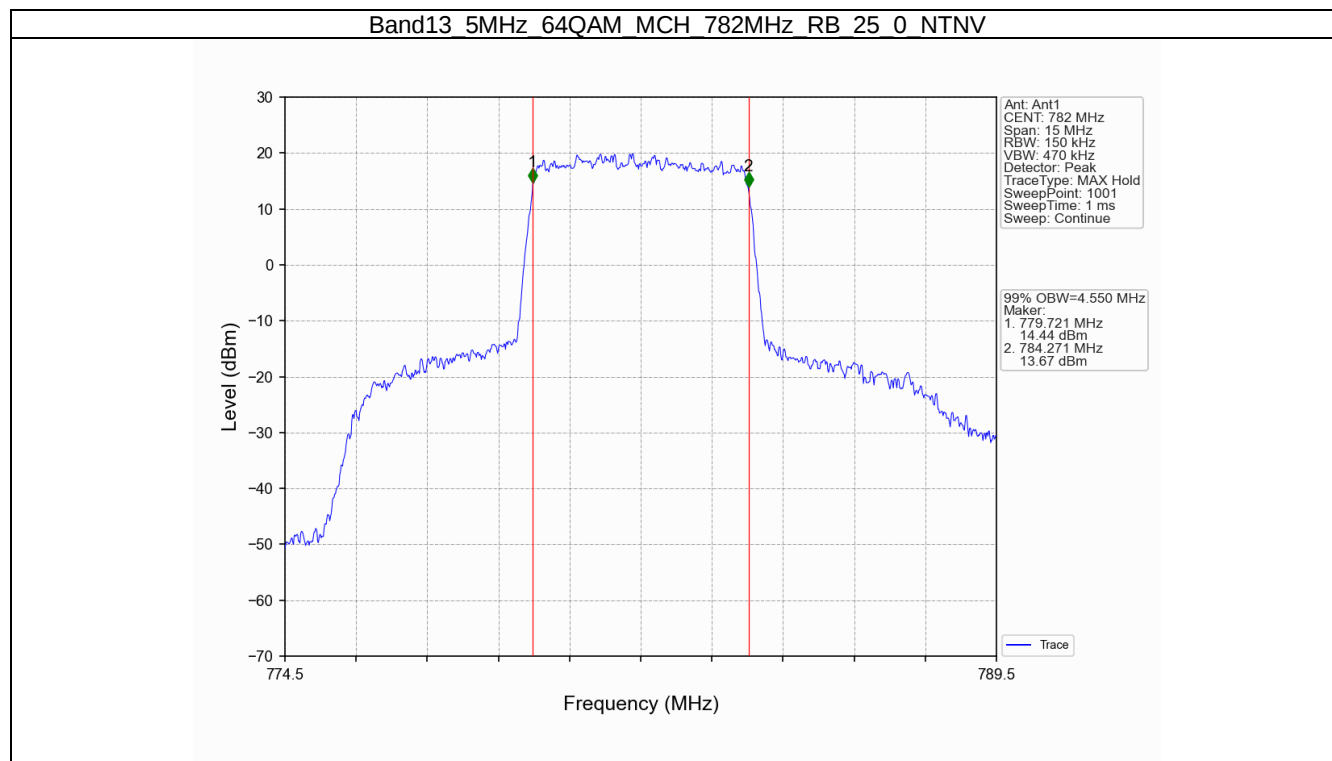


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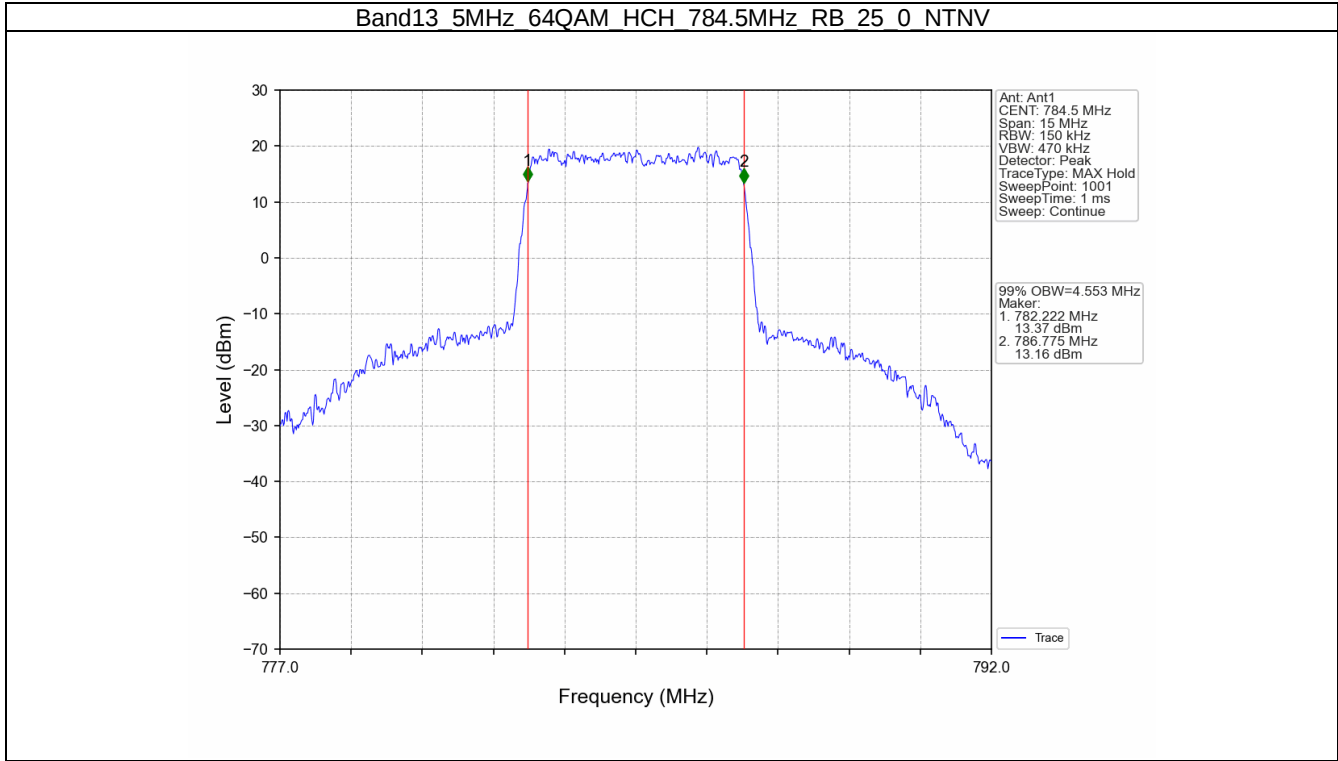
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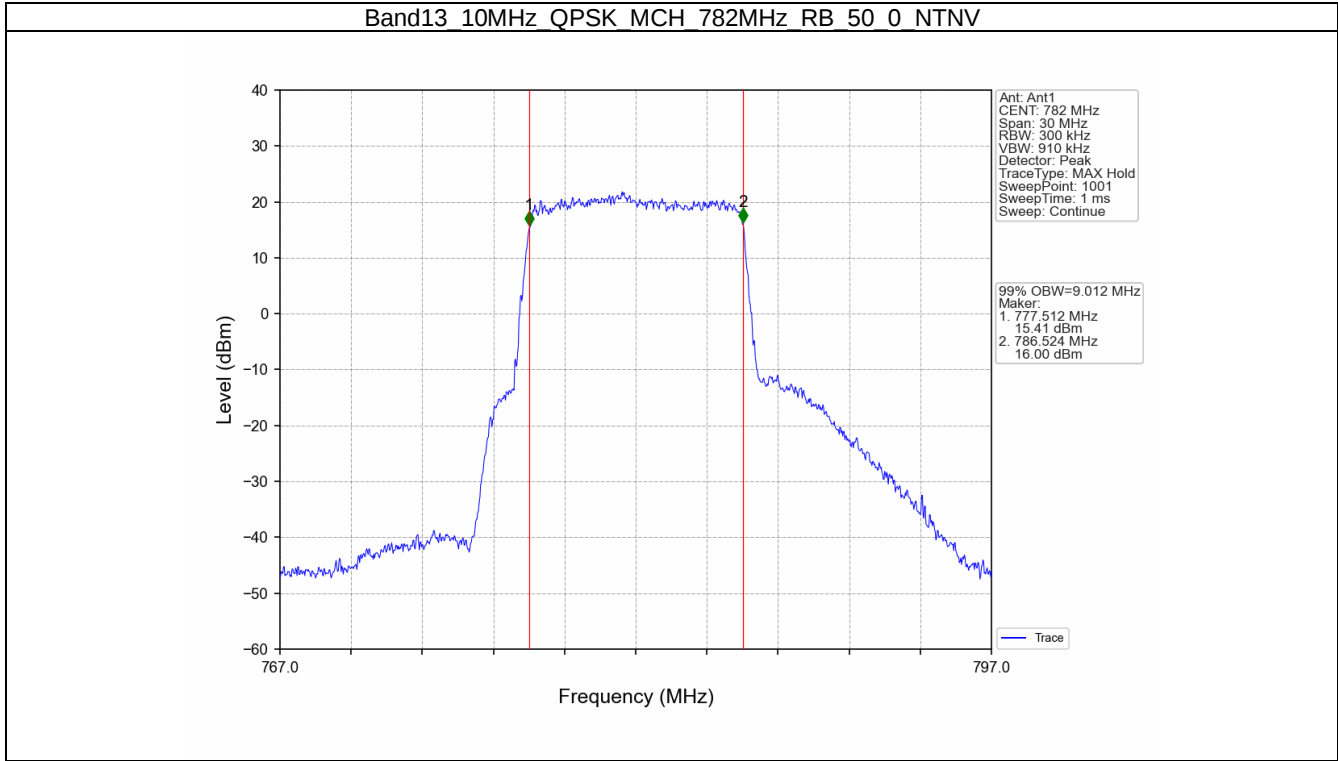




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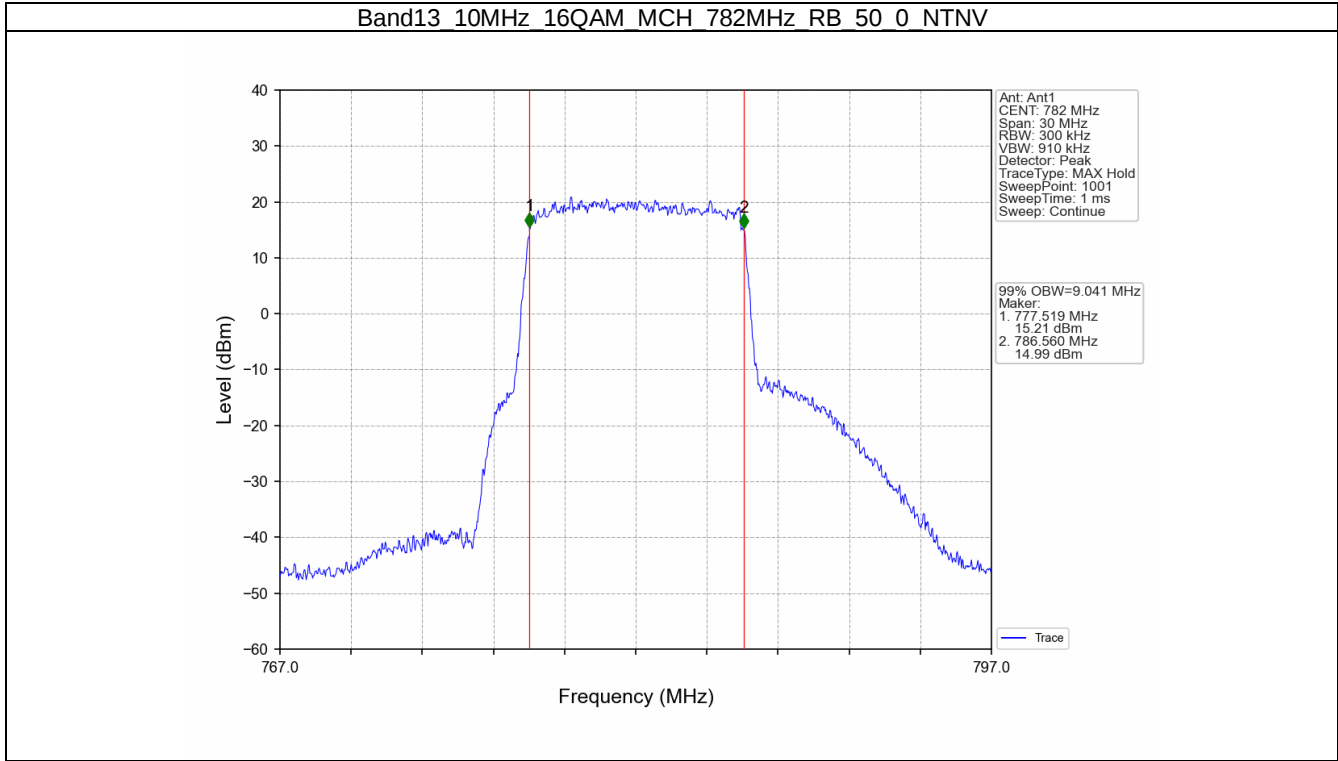
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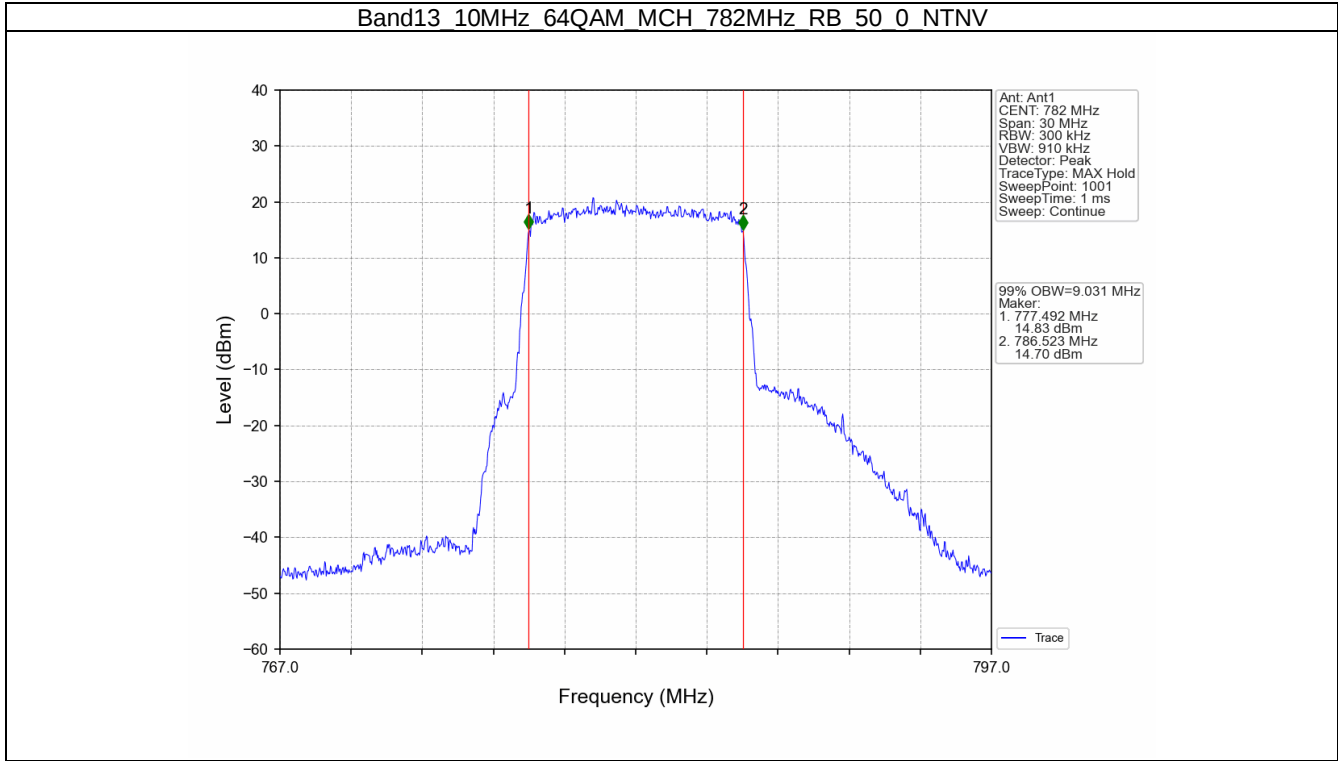
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2.2 Band13_XDB

2.2.1 Test Result

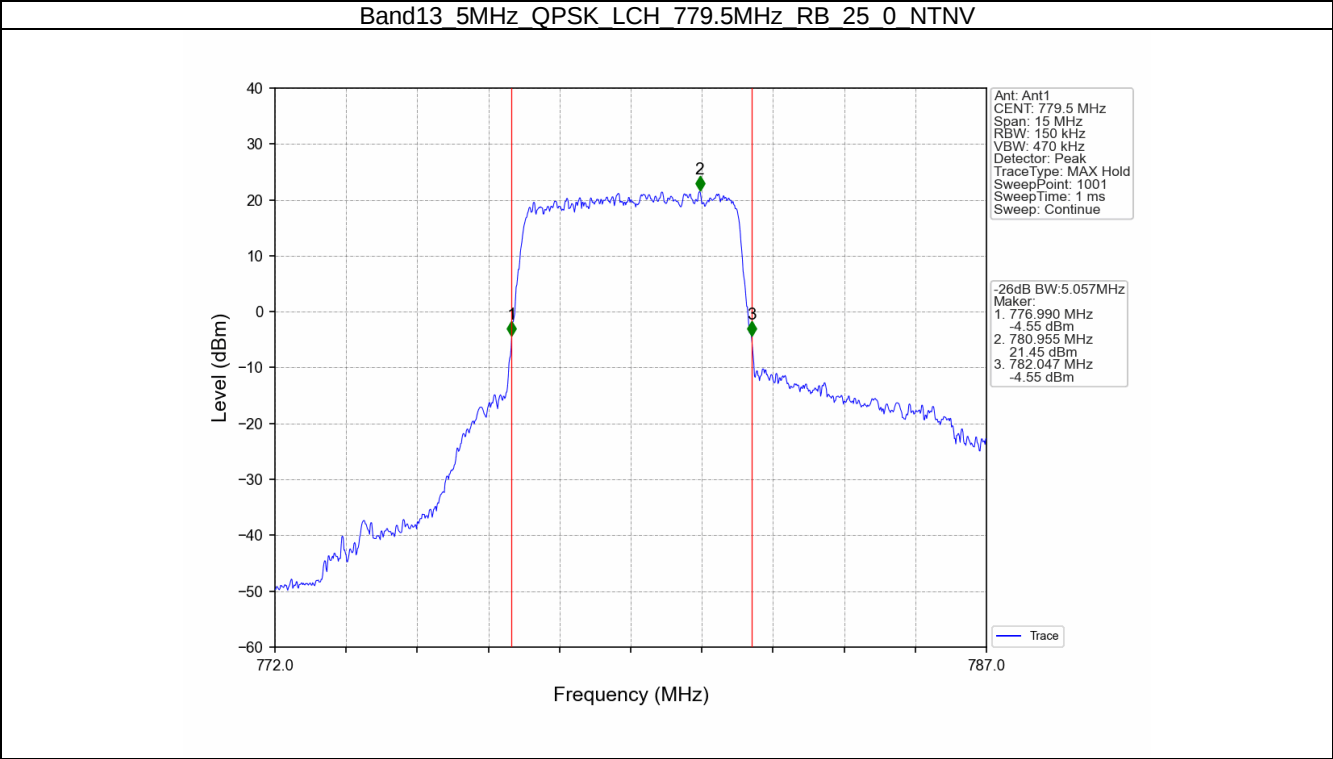
Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	779.5	25	0	5.057	/	Pass
		782	25	0	5.047	/	Pass
		784.5	25	0	5.022	/	Pass
	16QAM	779.5	25	0	5.054	/	Pass
		782	25	0	5.039	/	Pass
		784.5	25	0	5.044	/	Pass
	64QAM	779.5	25	0	5.028	/	Pass
		782	25	0	5.042	/	Pass
		784.5	25	0	5.037	/	Pass
10	QPSK	782	50	0	9.879	/	Pass
	16QAM	782	50	0	9.878	/	Pass
	64QAM	782	50	0	9.869	/	Pass



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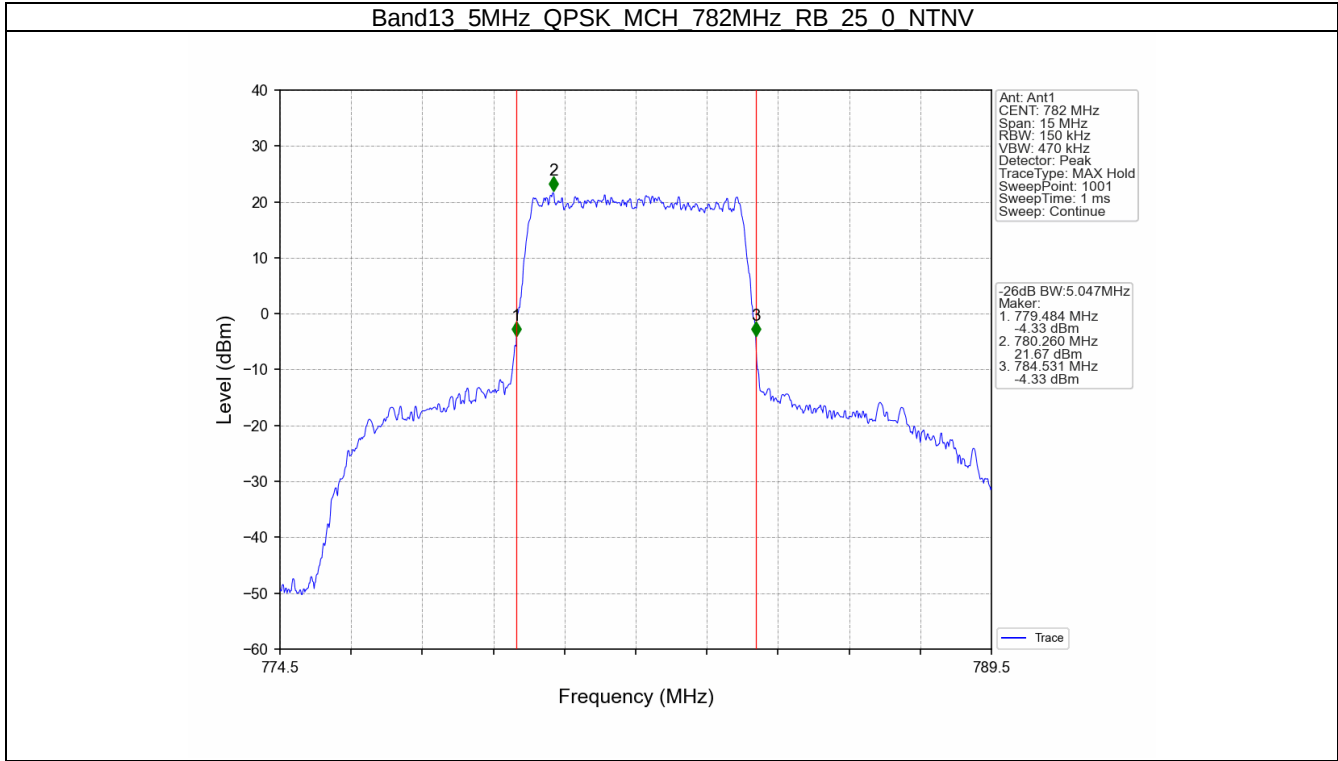
2.2.2 Test Graph





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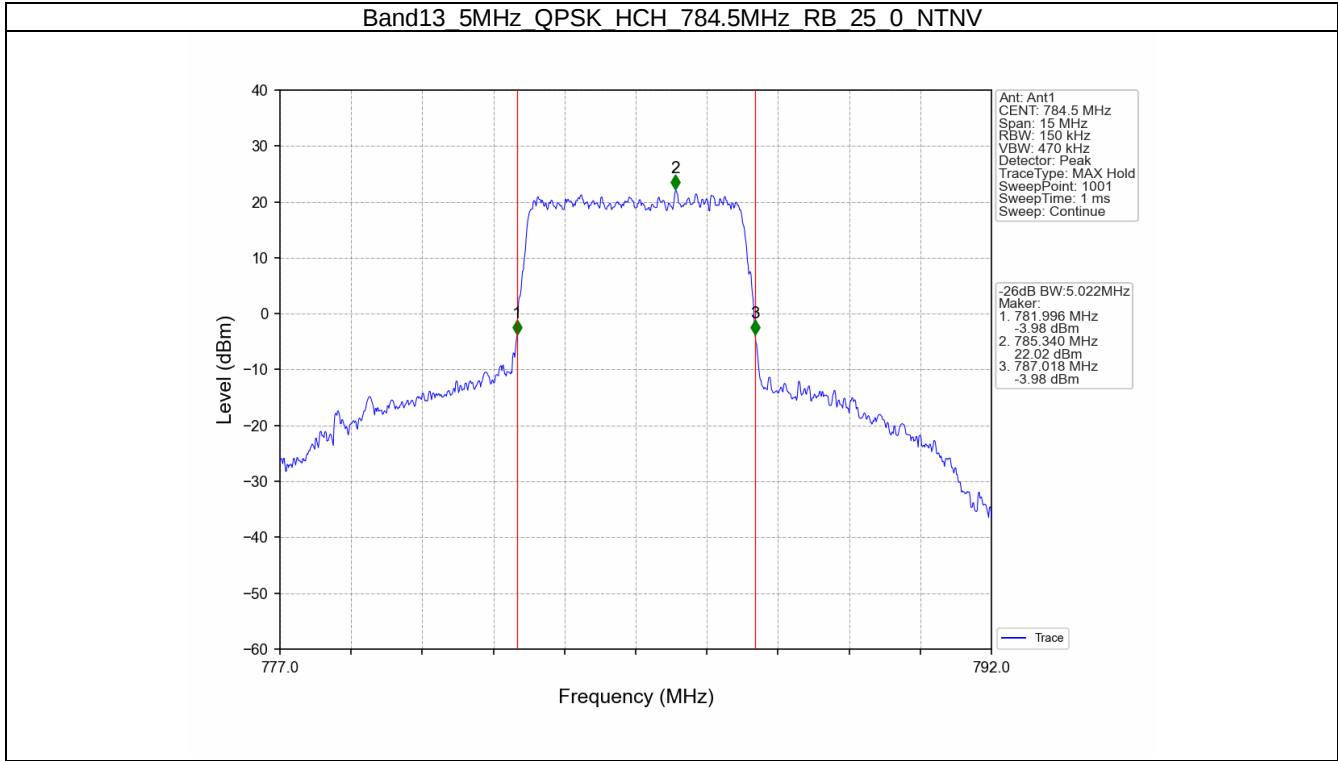
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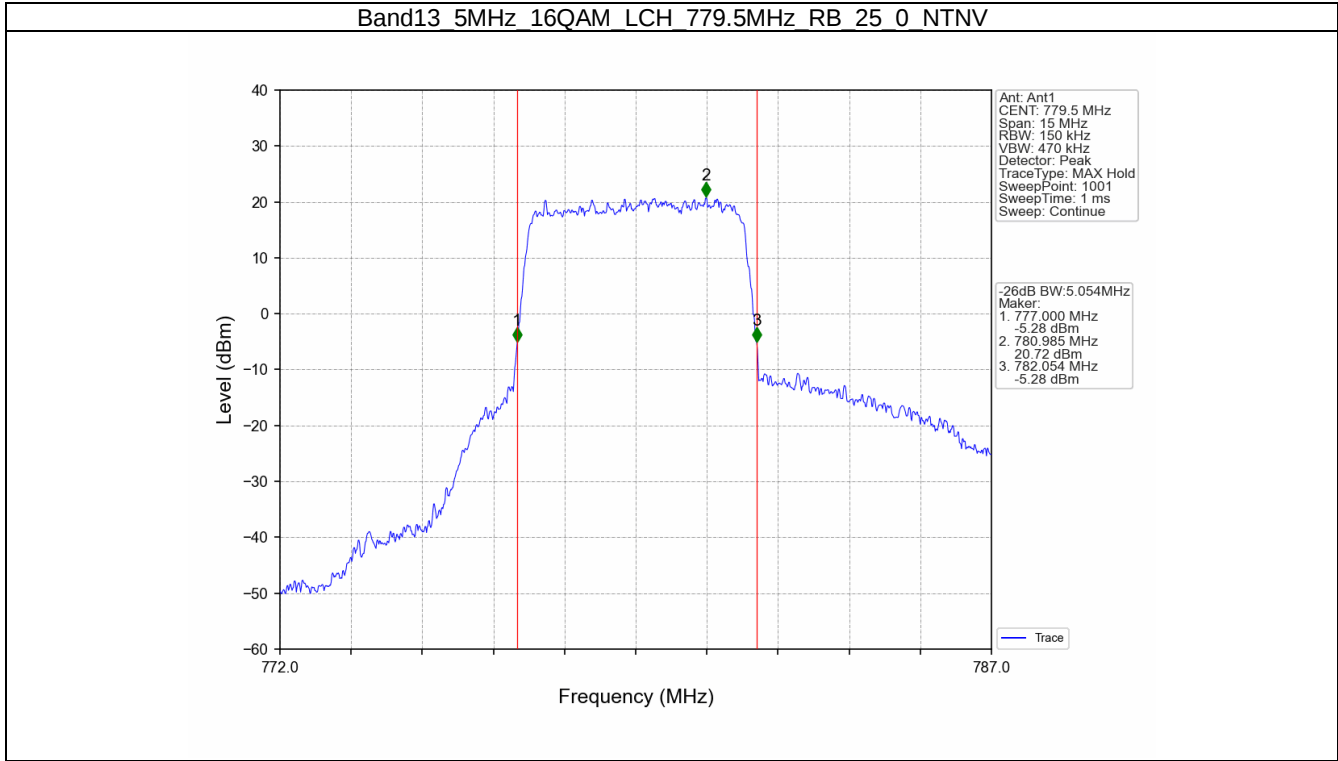
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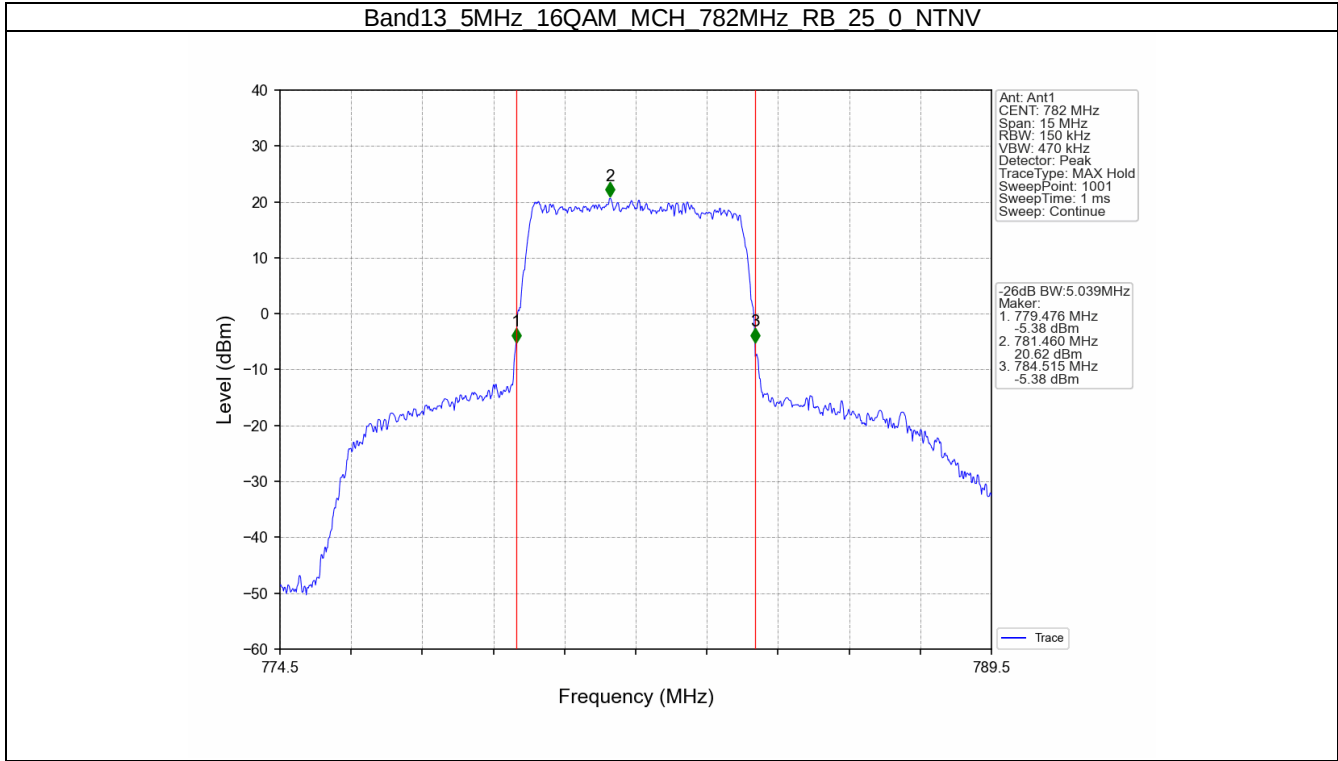
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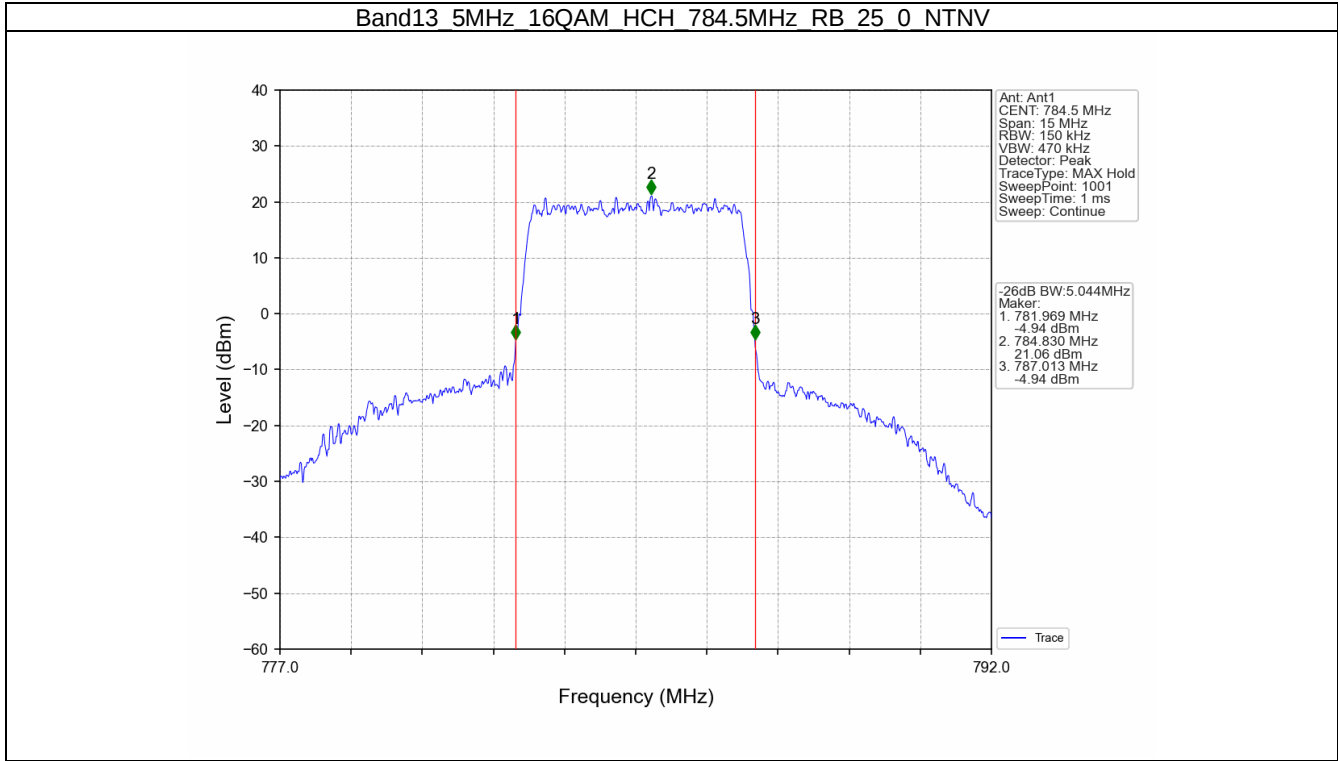
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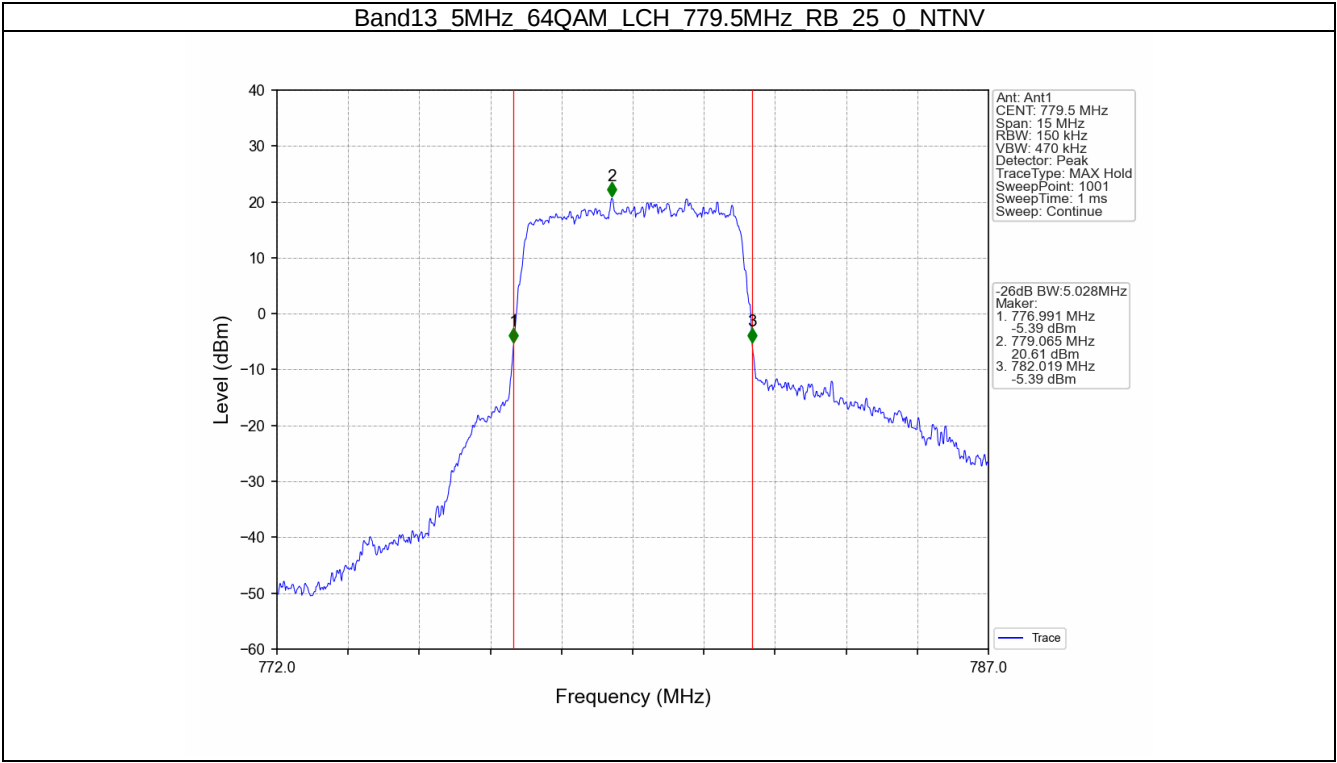
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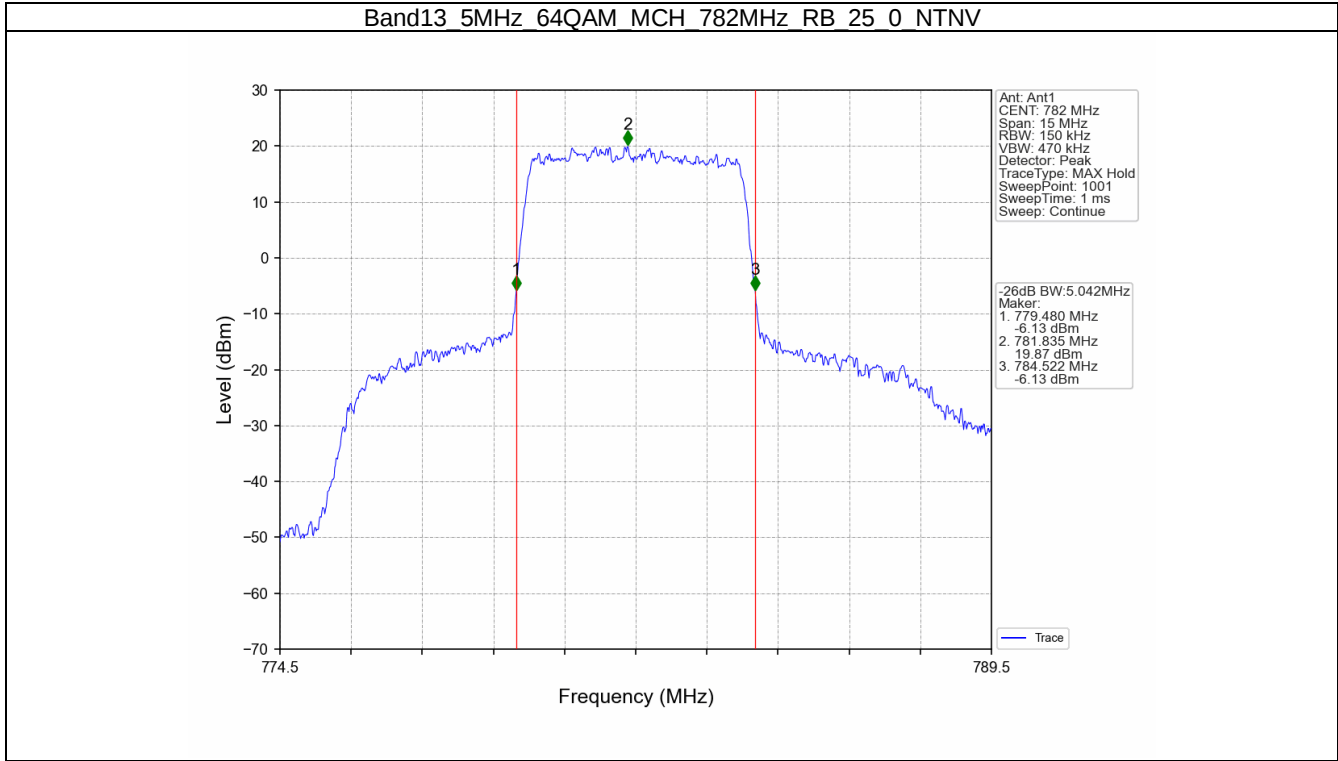
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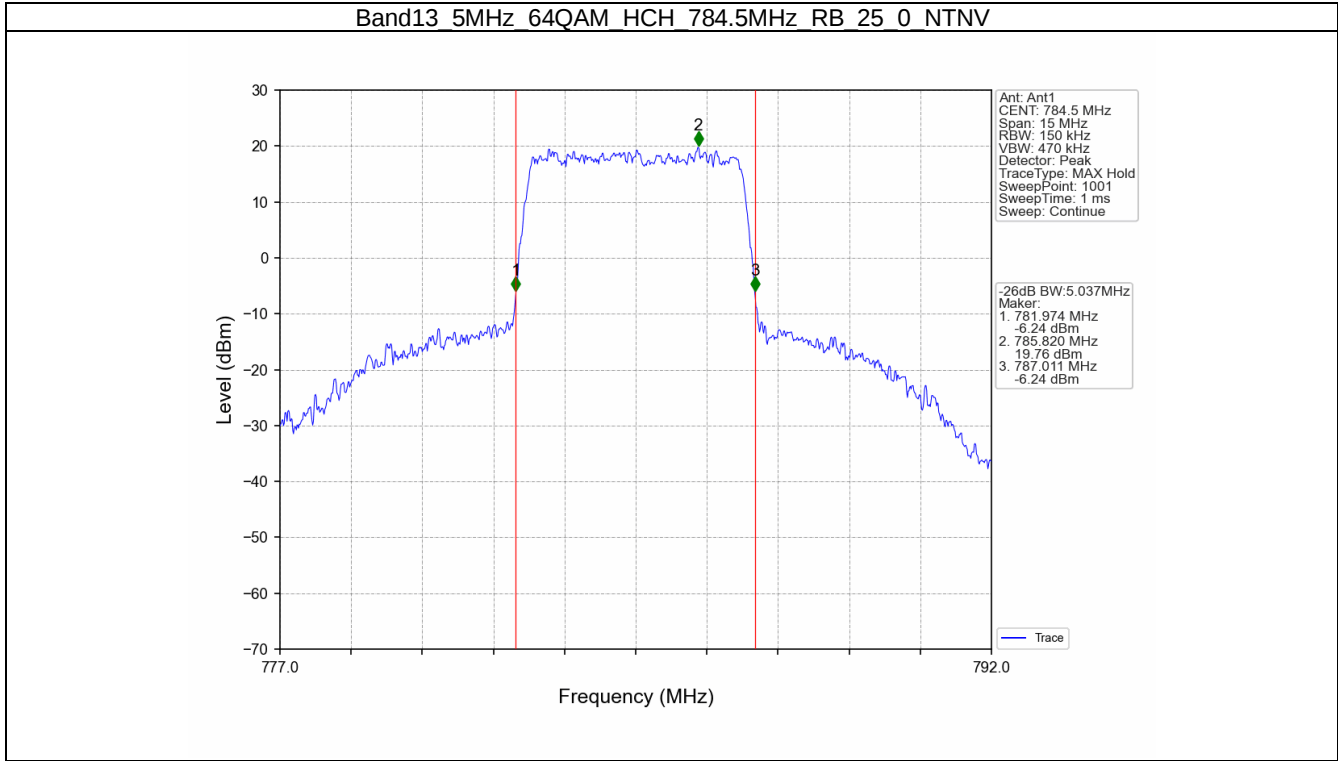




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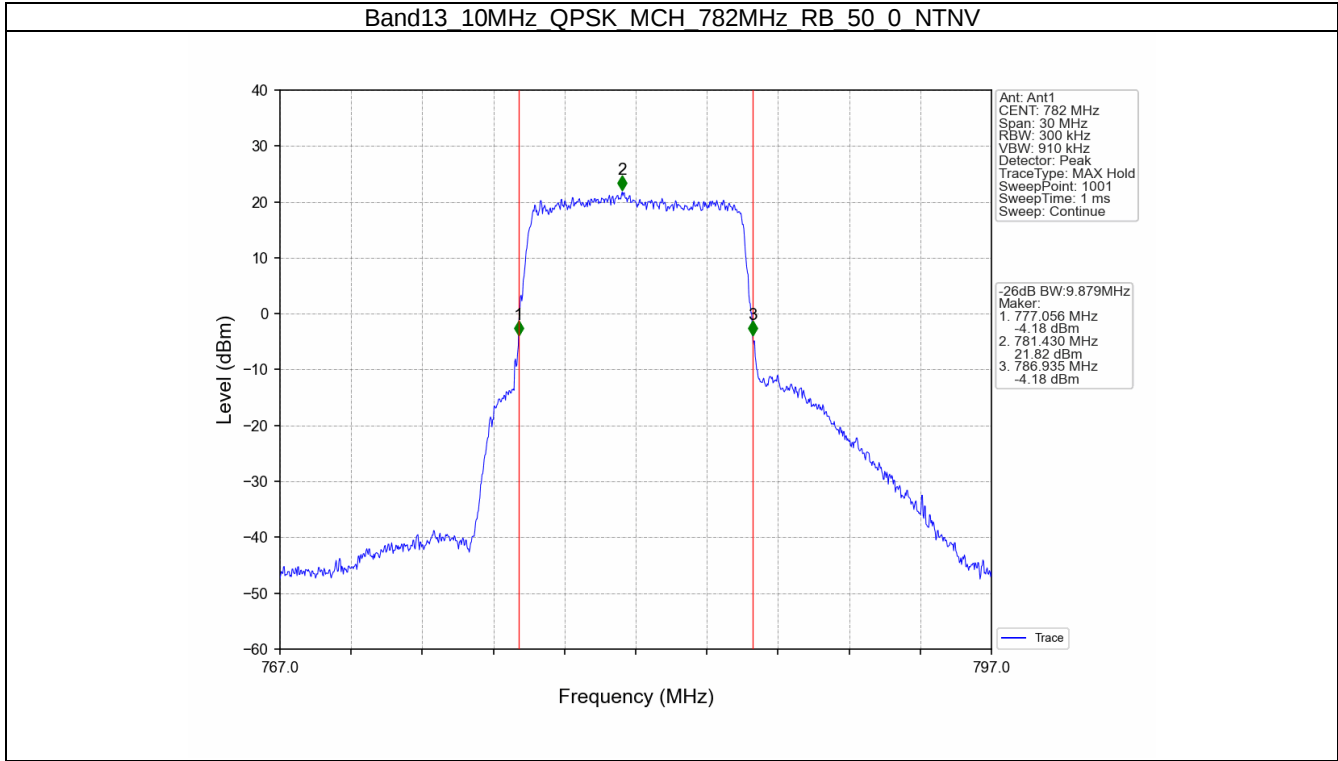
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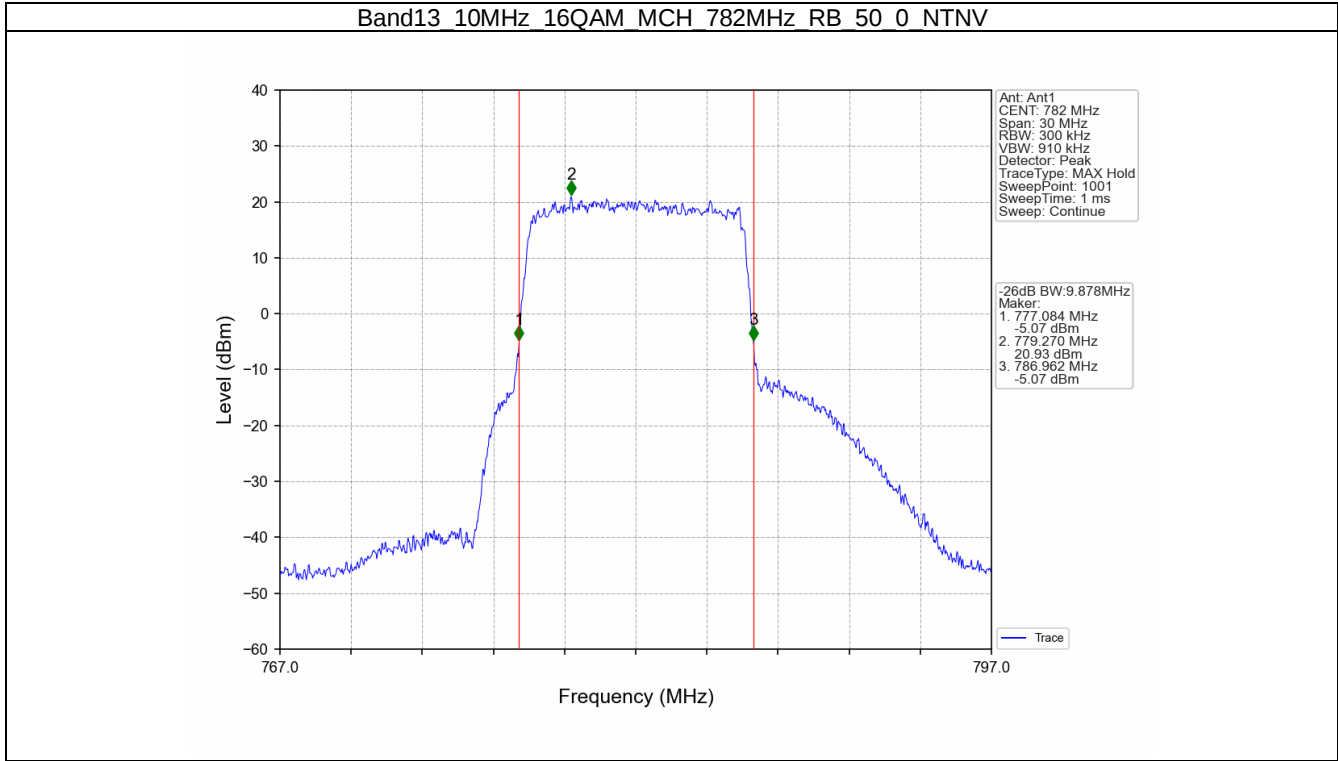
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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.

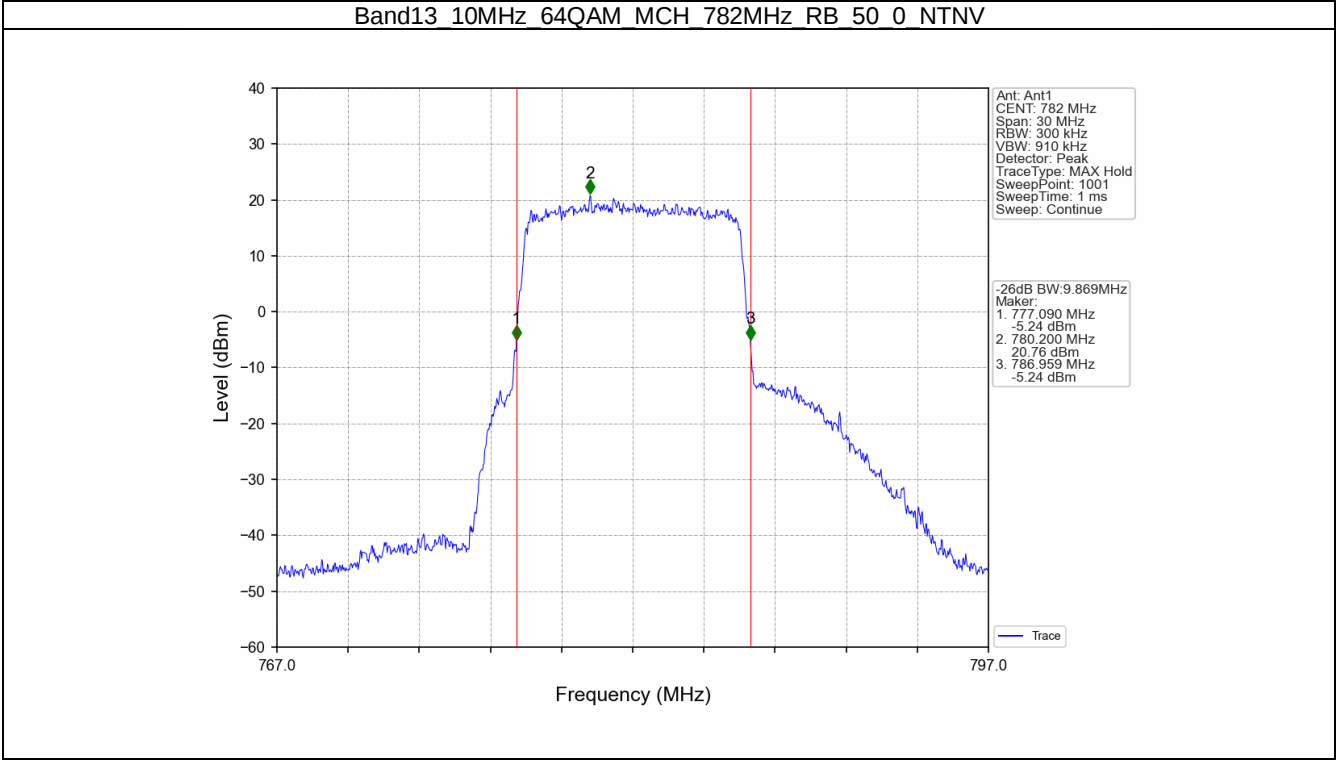
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3. Peak-Average Ratio

3.1 B13_5MHz

3.1.1 Test Result

Band: 13 / Bandwidth: 5MHz / NTNv						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	25	0	5.46	<=13	Pass
	782	25	0	5.52	<=13	Pass
	784.5	25	0	5.68	<=13	Pass
16QAM	779.5	25	0	6.35	<=13	Pass
	782	25	0	6.33	<=13	Pass
	784.5	25	0	6.50	<=13	Pass
64QAM	779.5	25	0	6.96	<=13	Pass
	782	25	0	7.00	<=13	Pass
	784.5	25	0	7.17	<=13	Pass

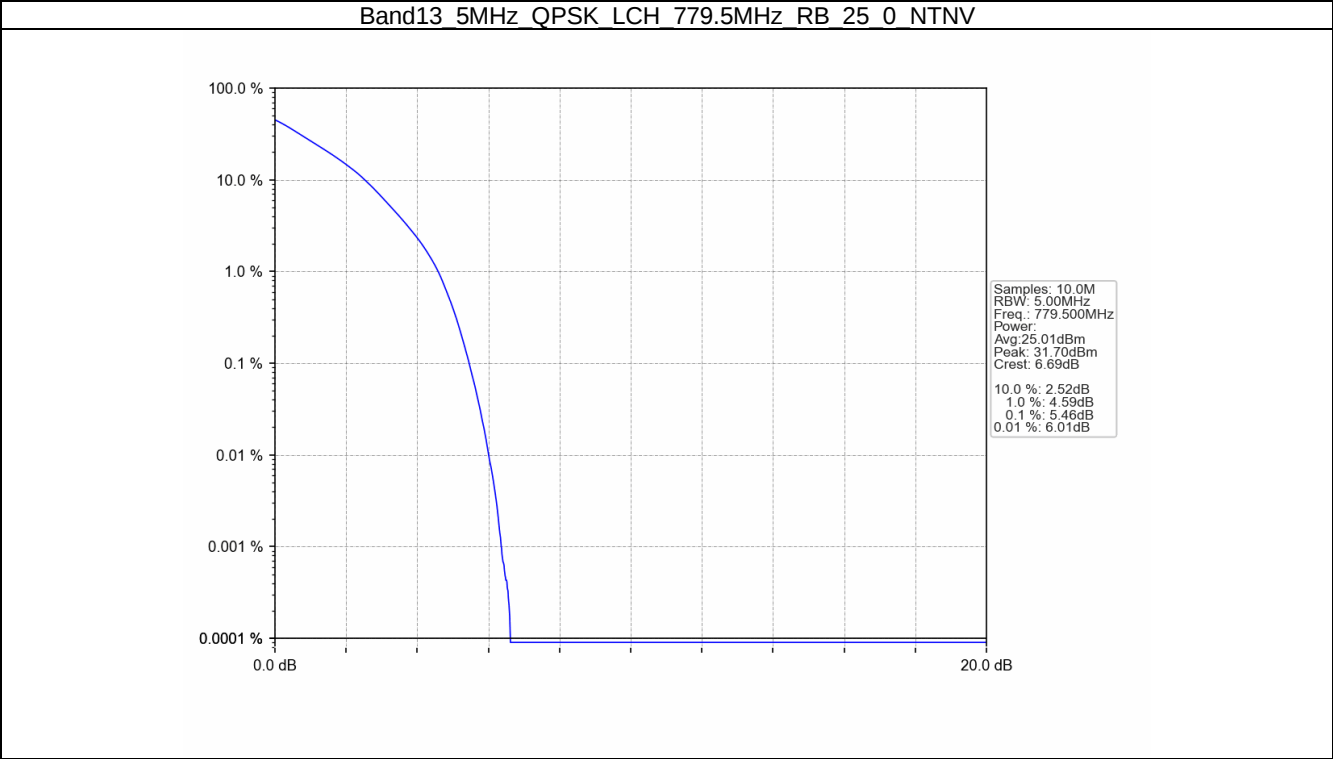


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3.1.2 Test Graph

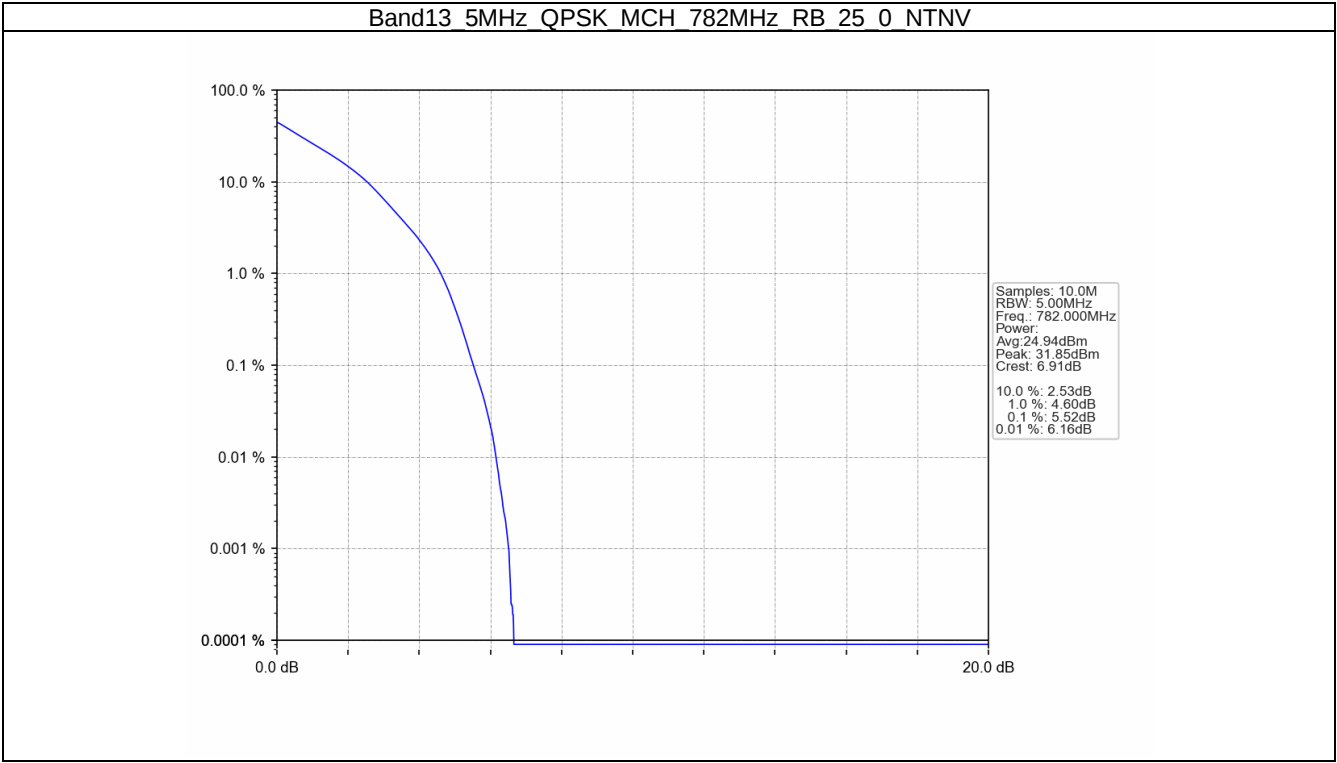




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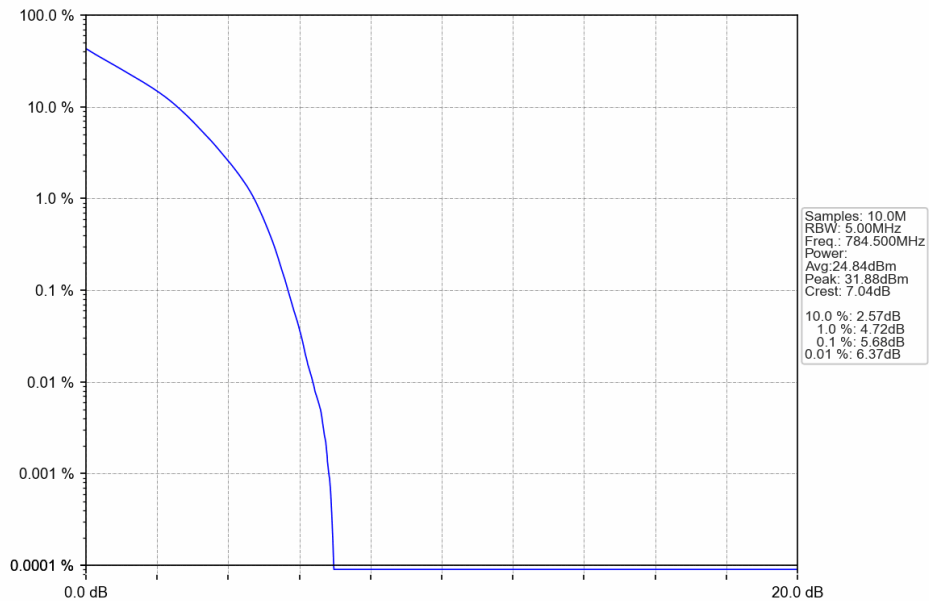




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Band13 5MHz QPSK HCH 784.5MHz RB 25 0 NTNV

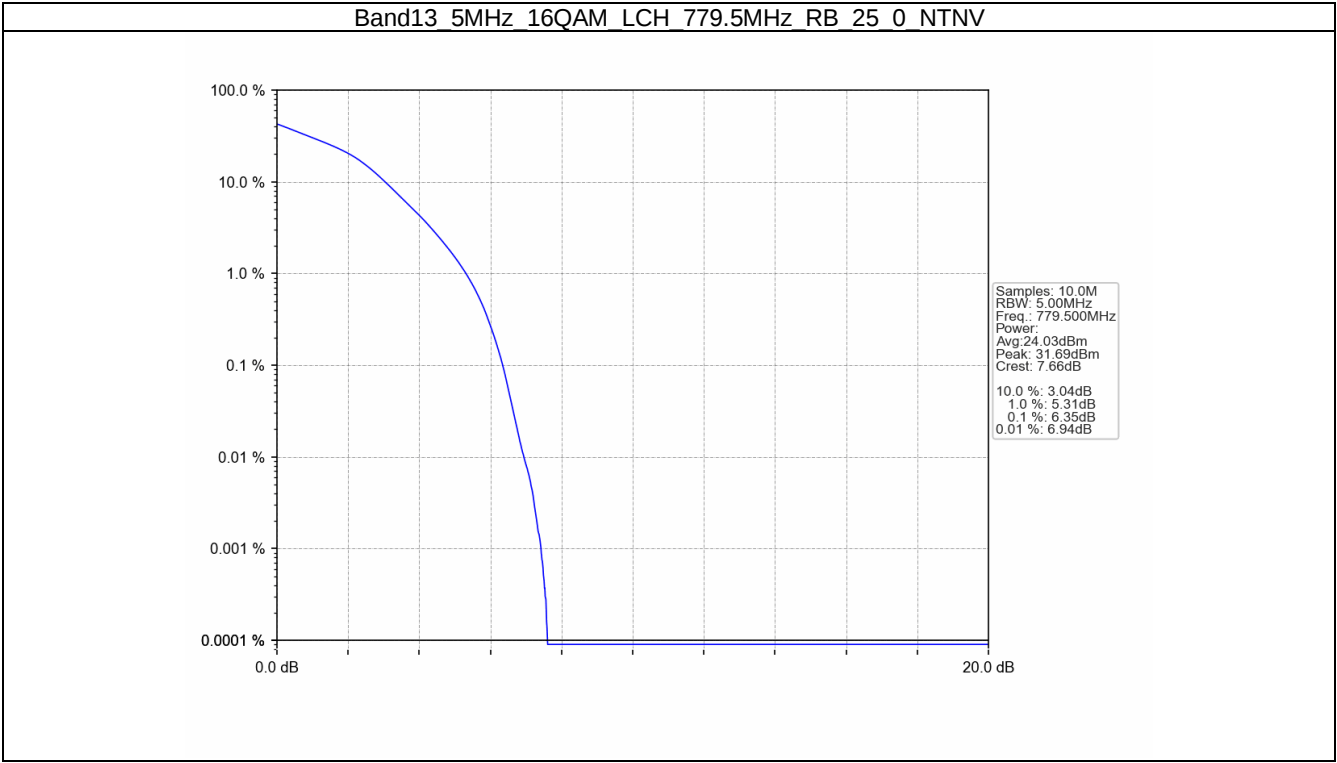




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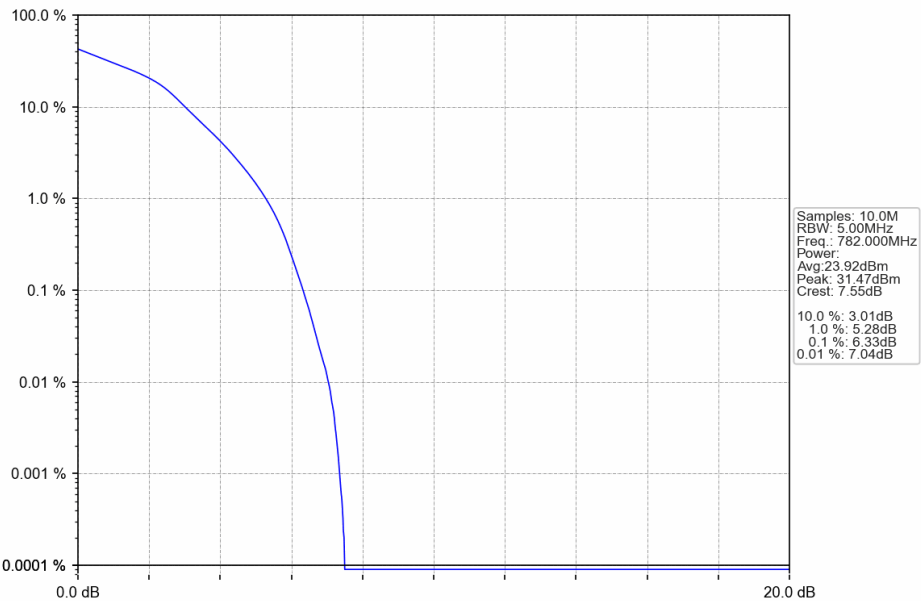




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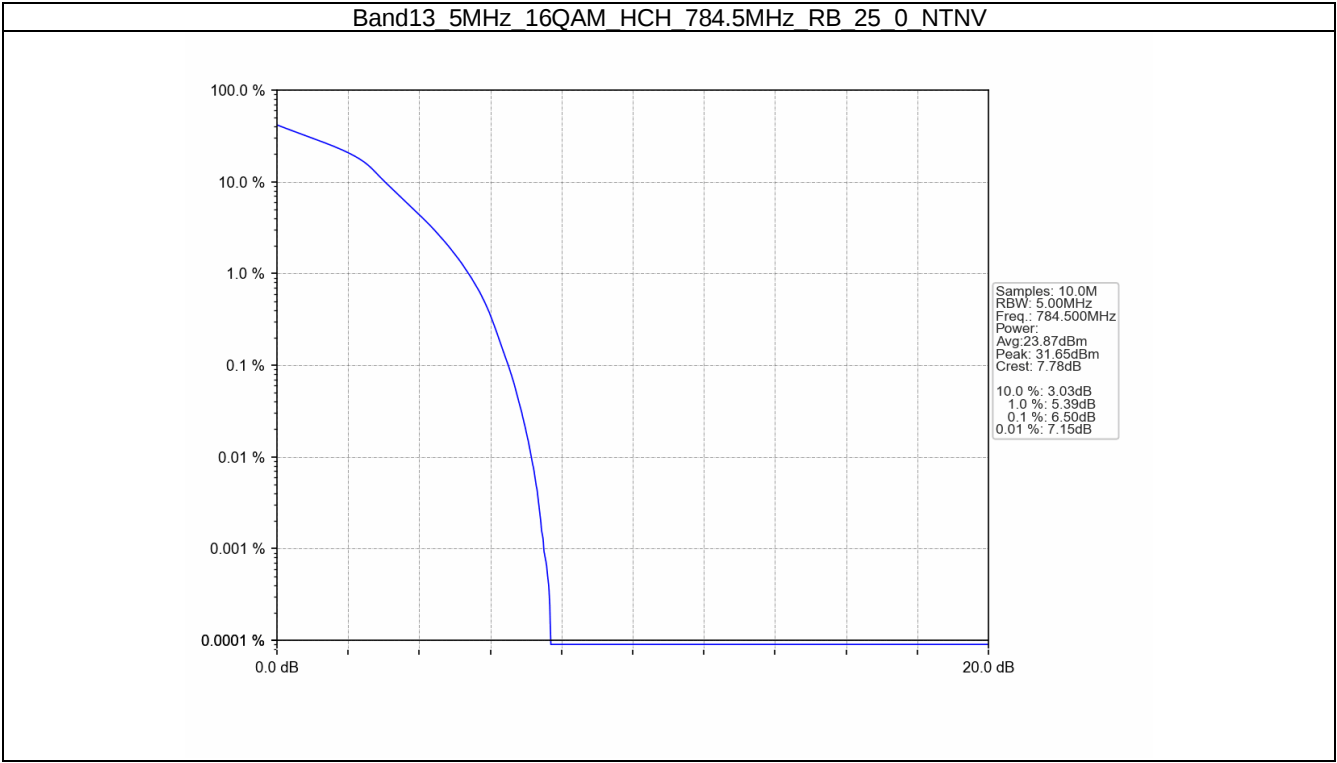
Band13 5MHz 16QAM MCH 782MHz RB 25 0 NTNV





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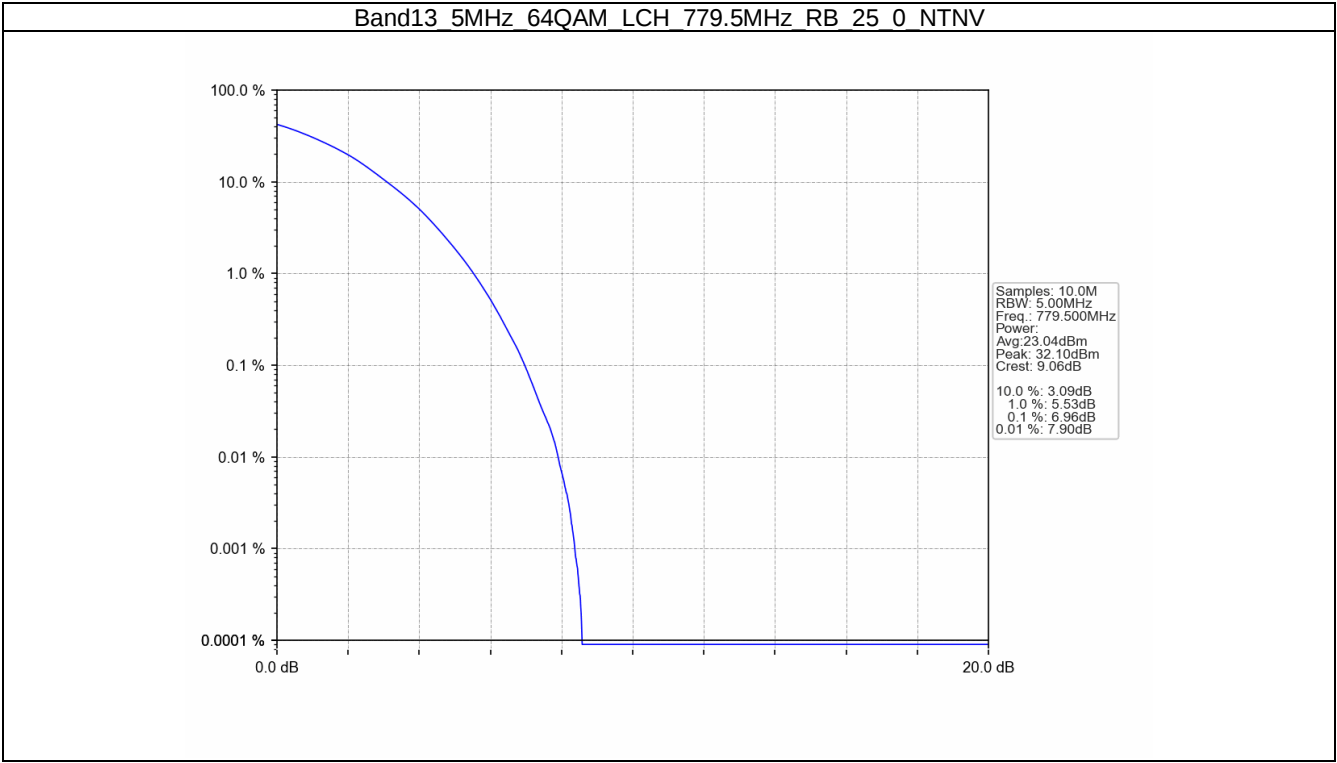




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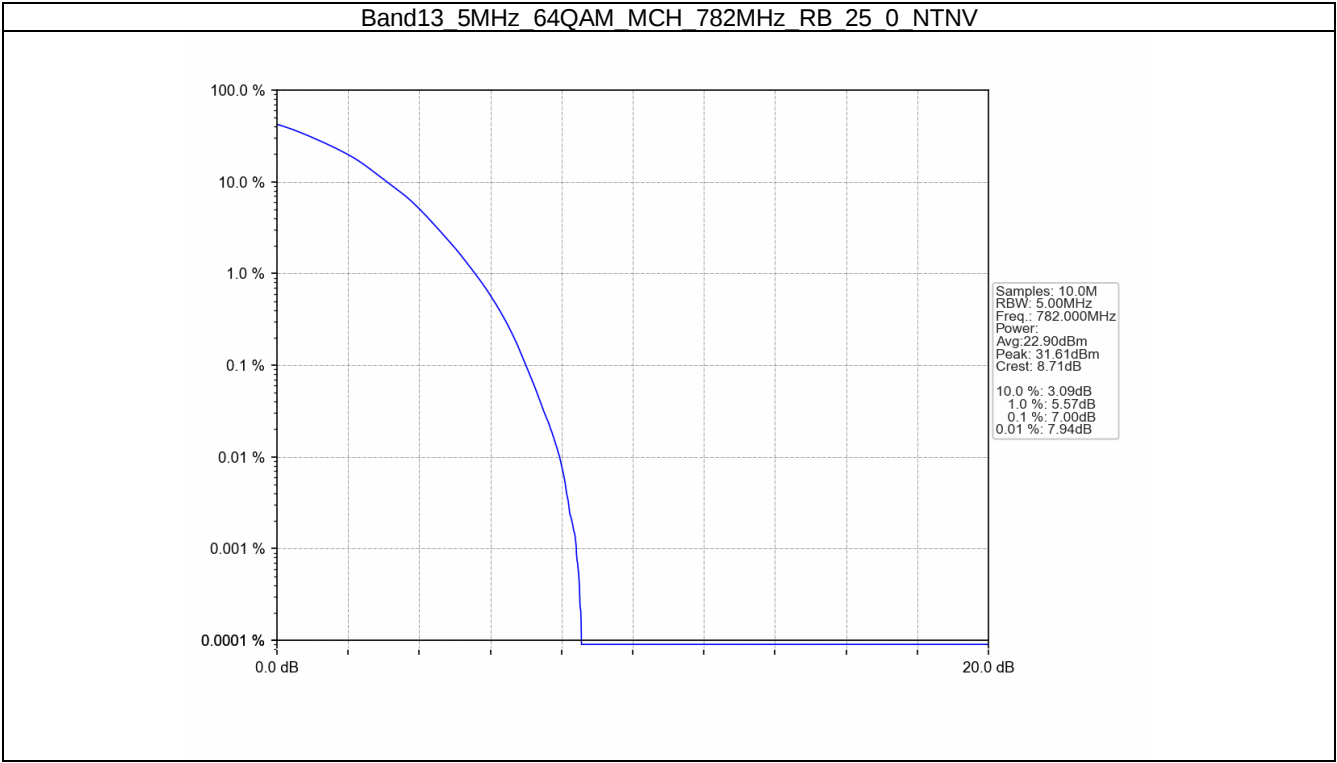




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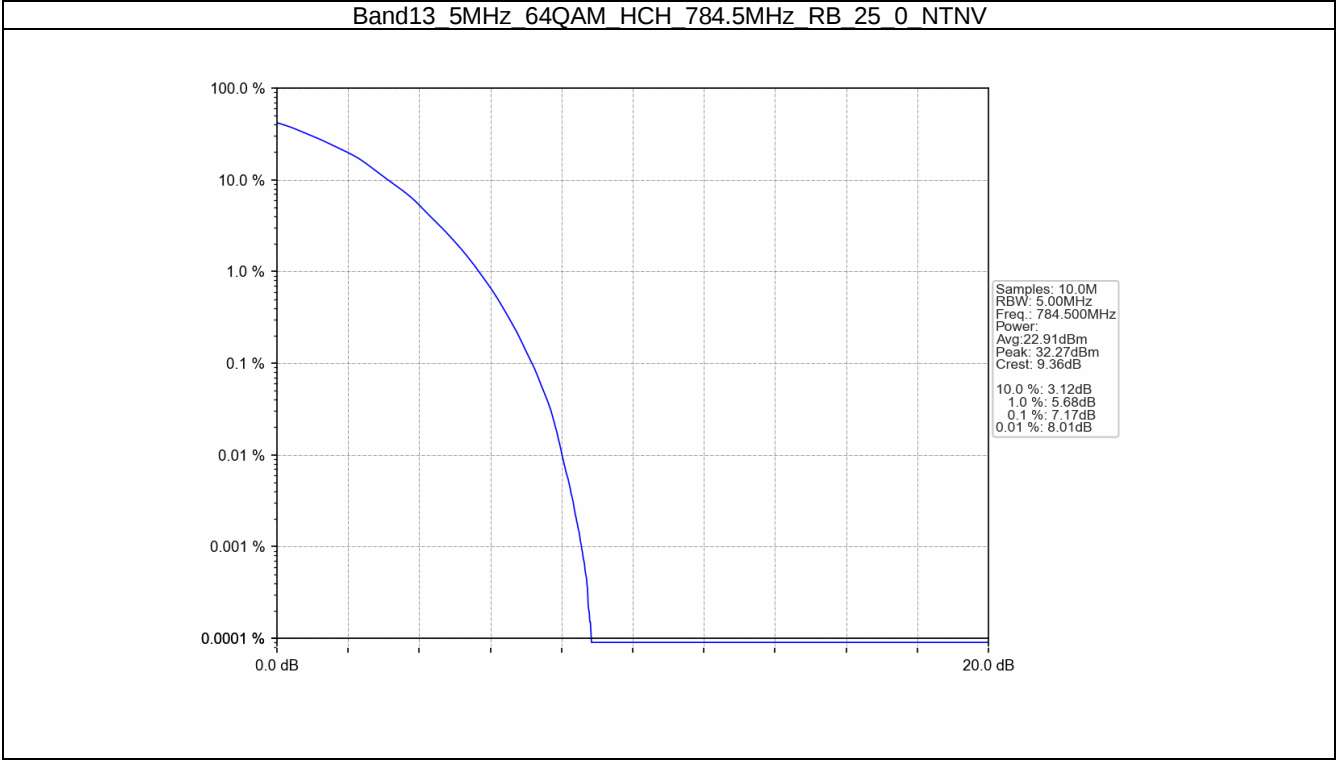
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3.2 B13_10MHz

3.2.1 Test Result

Band: 13 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	782	50	0	5.49	<=13	Pass
16QAM	782	50	0	6.39	<=13	Pass
64QAM	782	50	0	7.12	<=13	Pass

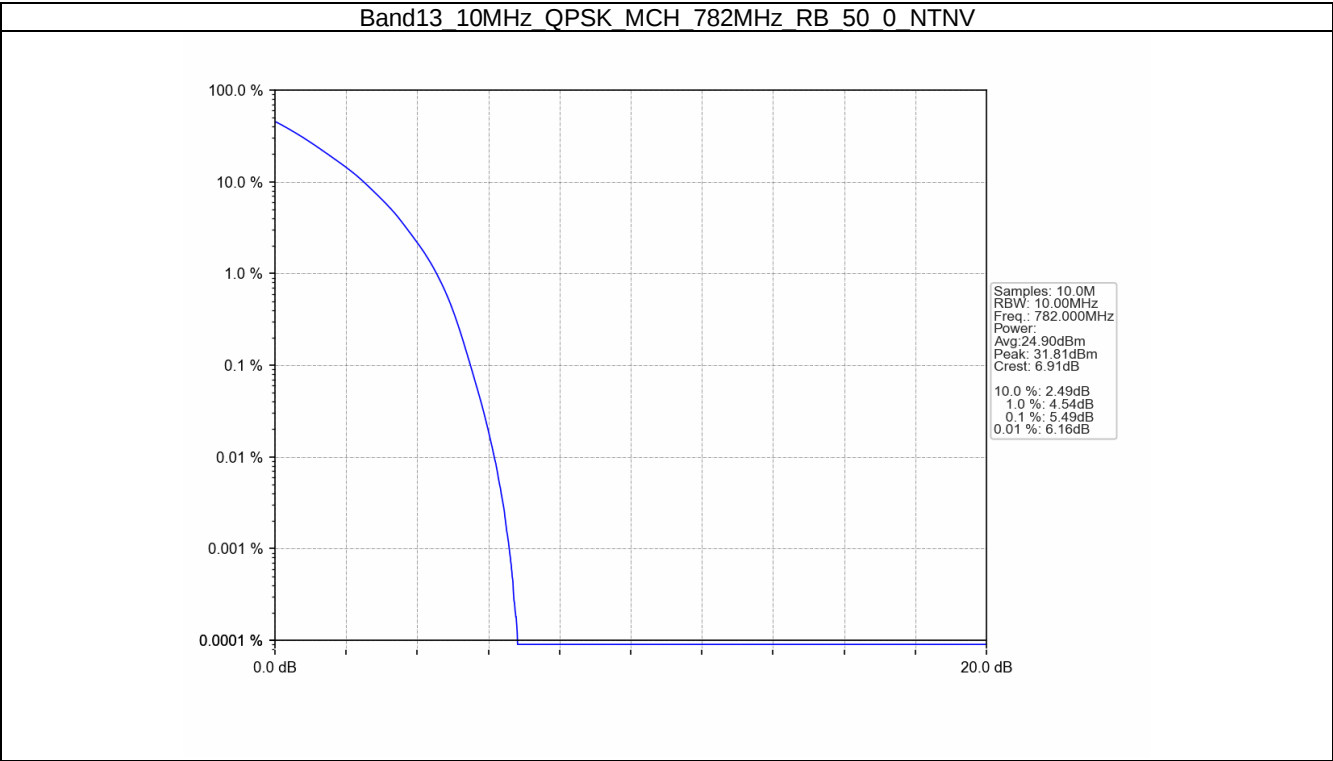


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3.2.2 Test Graph

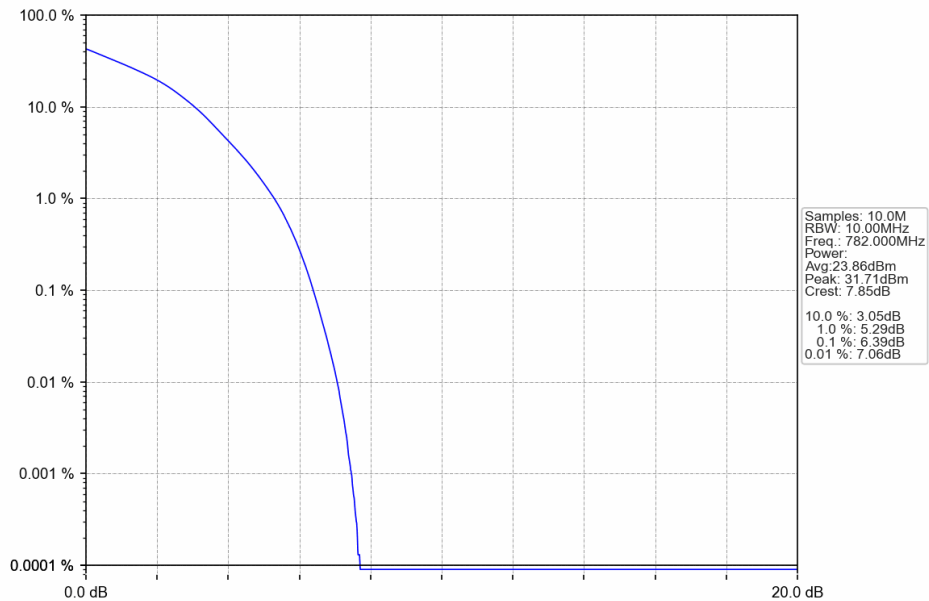




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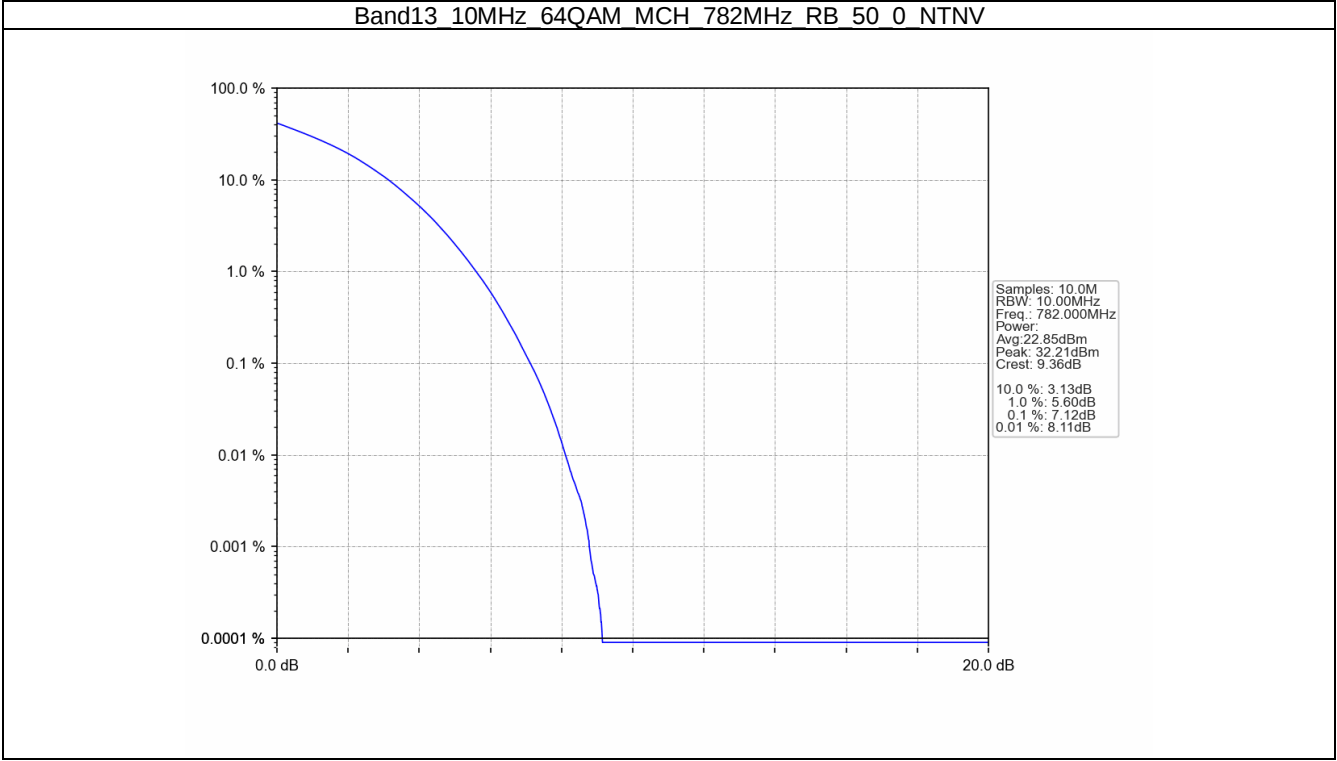
Band13 10MHz 16QAM MCH 782MHz RB 50 0 NTNV





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4. Spurious Emission & Band Edges

4.1 B13_5MHz

4.1.1 Test Result

Band: 13 / Bandwidth: 5MHz / NTVN						
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
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	779.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	782	1	0	Refer To Test Graph		Pass
	784.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
64QAM	779.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	782	1	0	Refer To Test Graph		Pass
	784.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

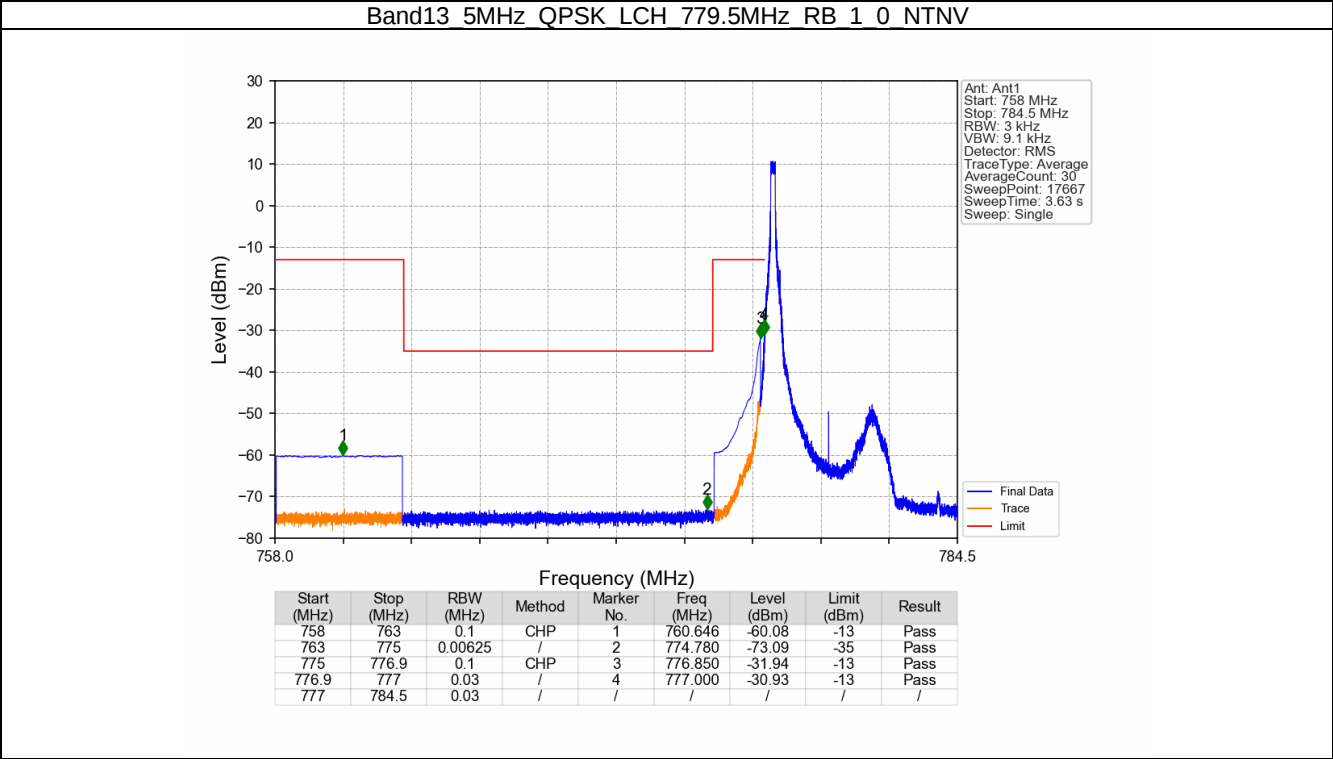


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4.1.2 Test Graph

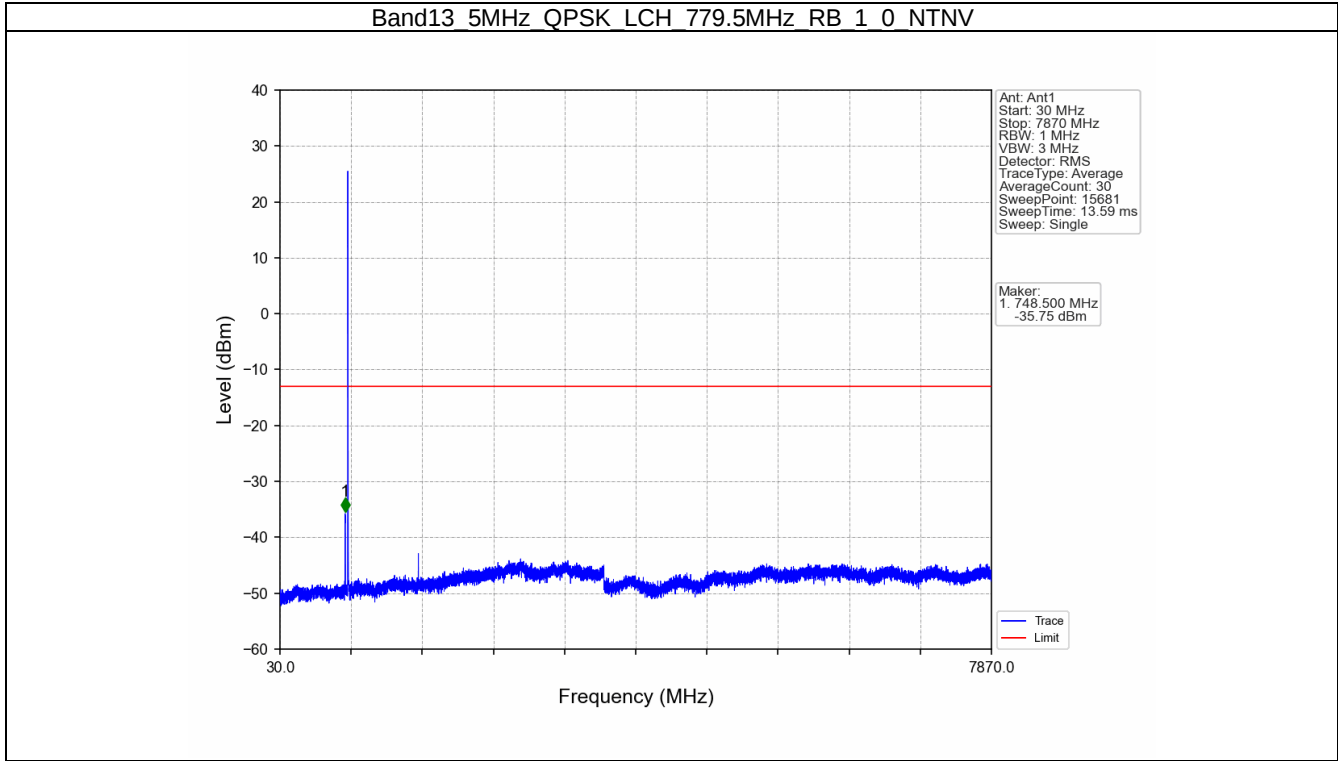




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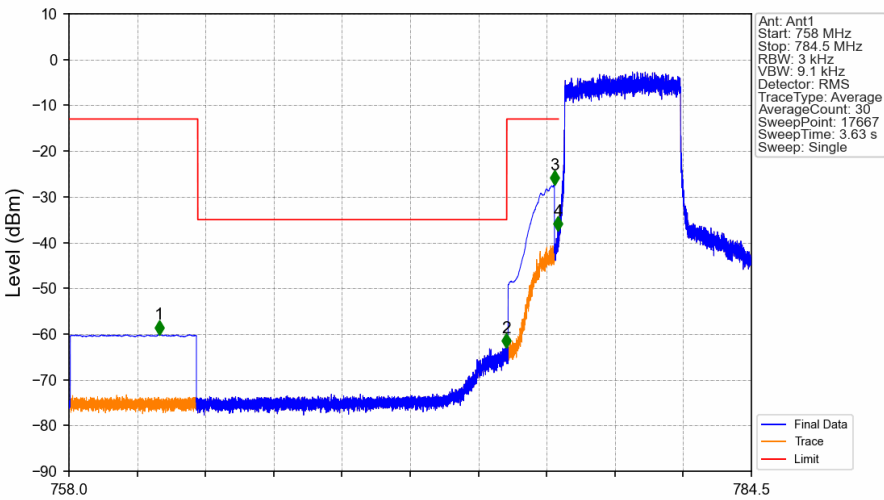


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Band13 5MHz QPSK LCH 779.5MHz RB 25 0 NTV



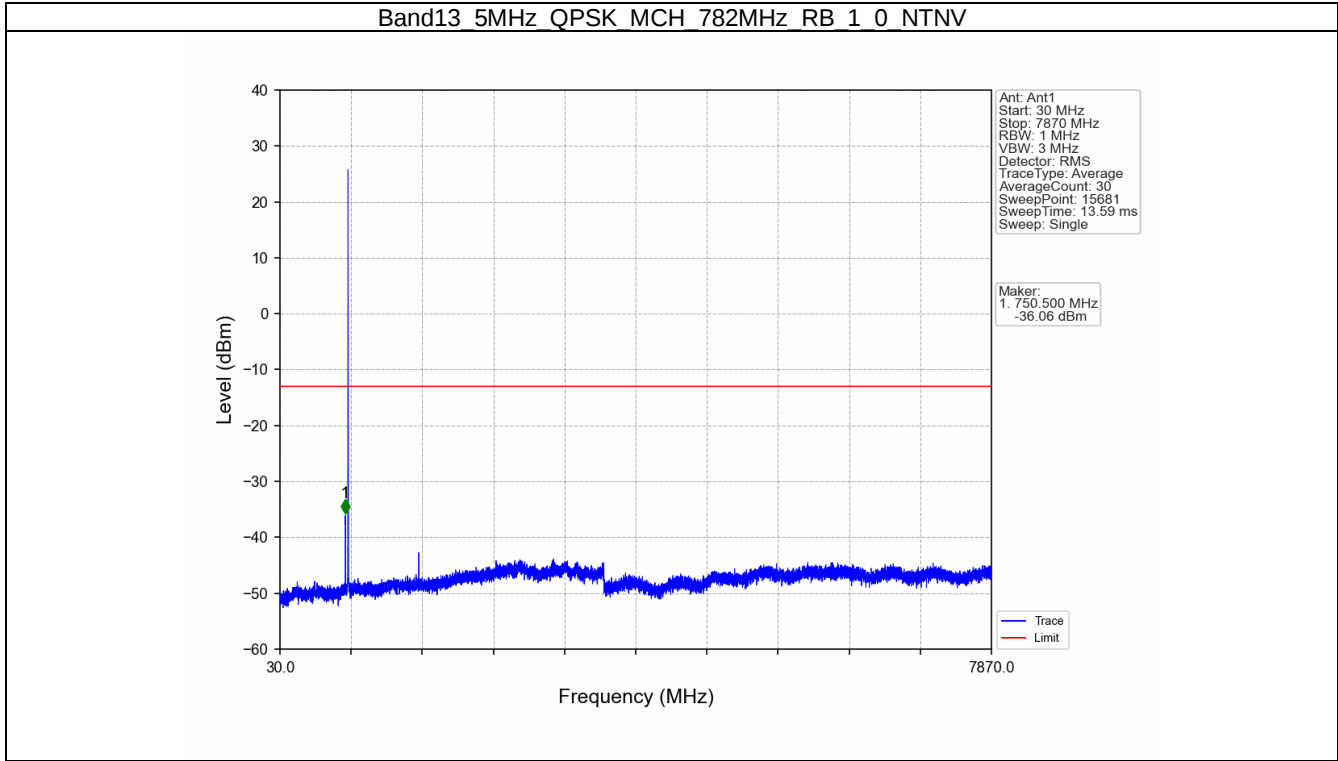
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.509	-60.12	-13	Pass
763	775	0.00625	/	2	774.982	-63.07	-35	Pass
775	776.9	0.1	CHP	3	776.850	-27.42	-13	Pass
776.9	777	0.03	/	4	776.986	-37.45	-13	Pass
777	784.5	0.03	/	/	/	/	/	/



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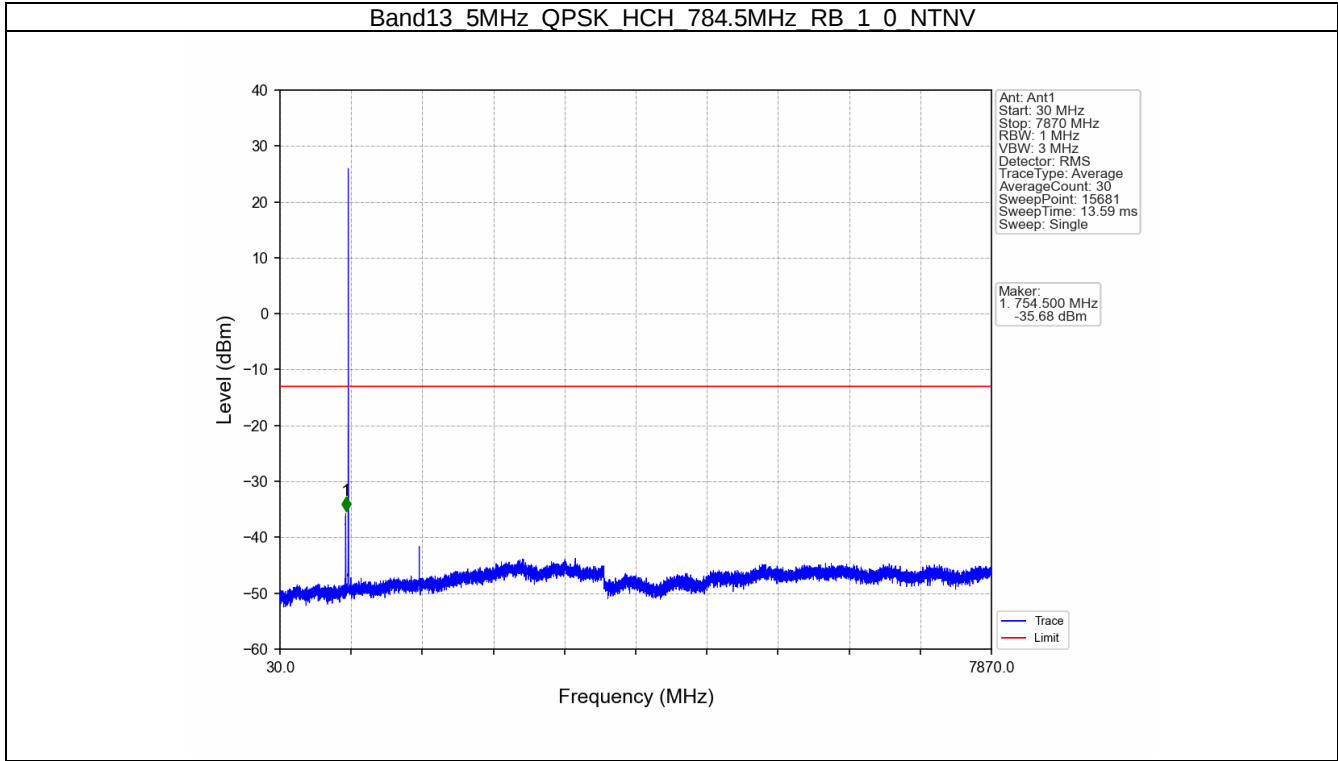
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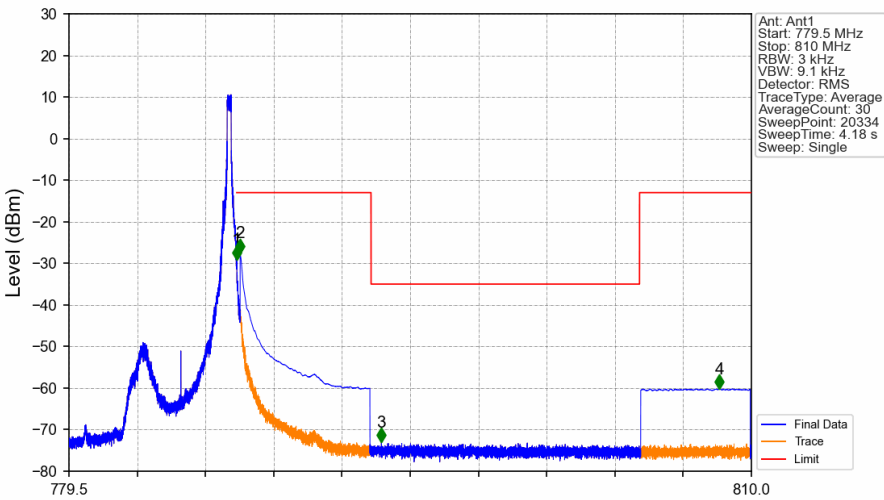


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Band13 5MHz QPSK HCH 784.5MHz RB 1 24 NTNV



Frequency (MHz)								
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	/	1	787.000	-29.08	-13	/
787	787.1	0.03	/	2	787.150	-27.54	-13	Pass
787.1	793	0.1	CHP	3	793.465	-73.09	-35	Pass
793	805	0.00625	/	4	808.564	-60.19	-13	Pass
805	810	0.1	CHP					

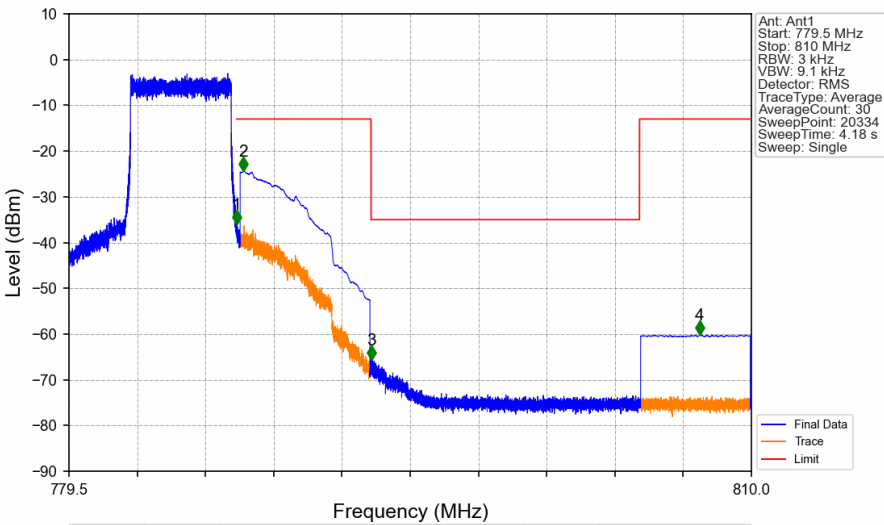


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Band13 5MHz QPSK HCH 784.5MHz RB 25 0 NTNV



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	-36.08	-13	Pass
787.1	793	0.1	CHP	2	787.300	-24.35	-13	Pass
793	805	0.00625	/	3	793.014	-65.68	-35	Pass
805	810	0.1	CHP	4	807.687	-60.24	-13	Pass

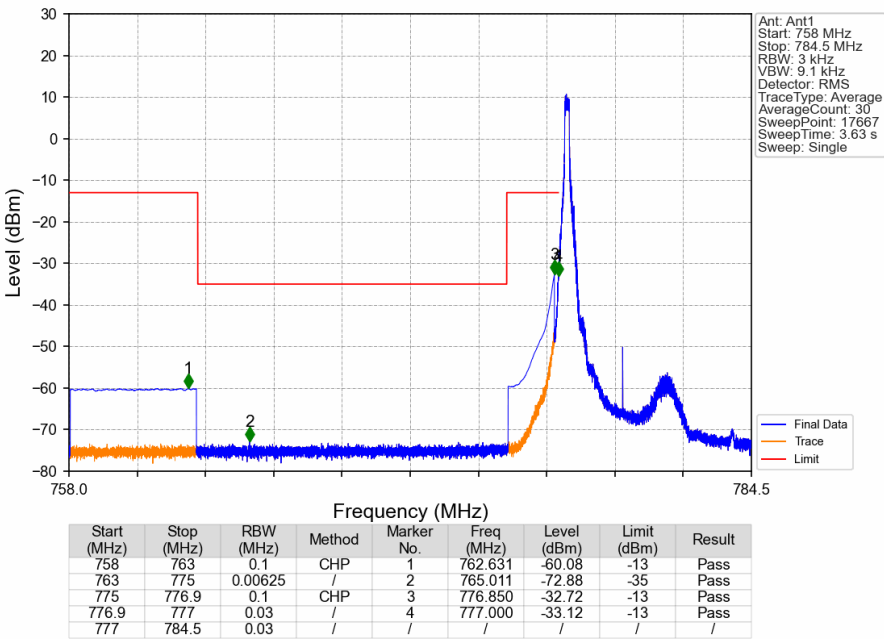


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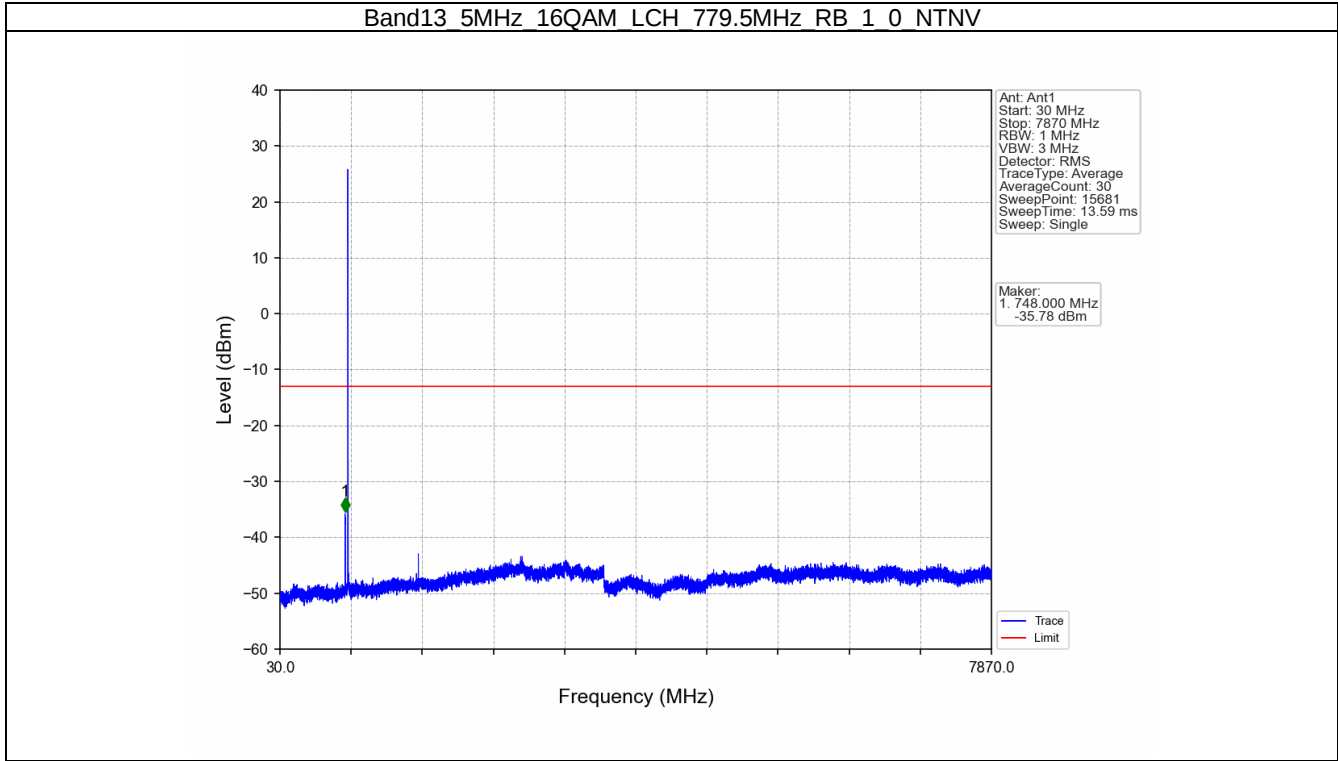
Band13 5MHz 16QAM LCH 779.5MHz RB 1 0 NTV





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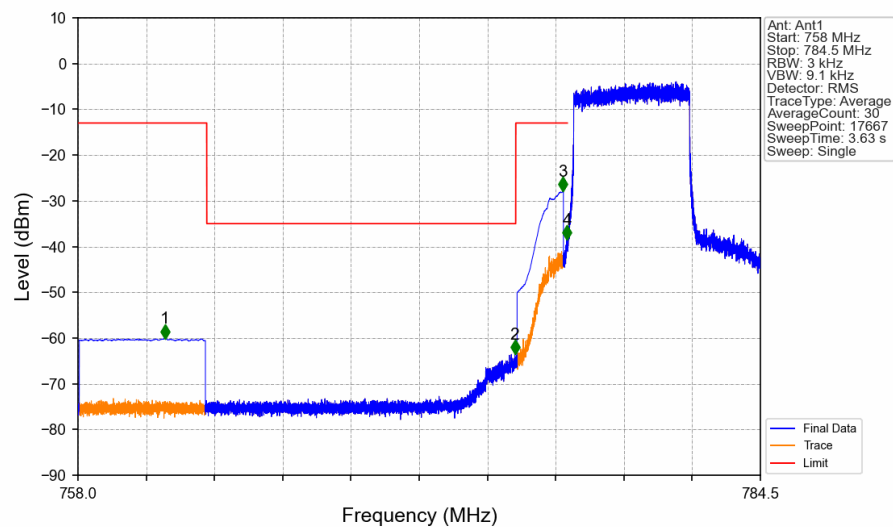


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Band13 5MHz 16QAM LCH 779.5MHz RB 25 0 NTNV

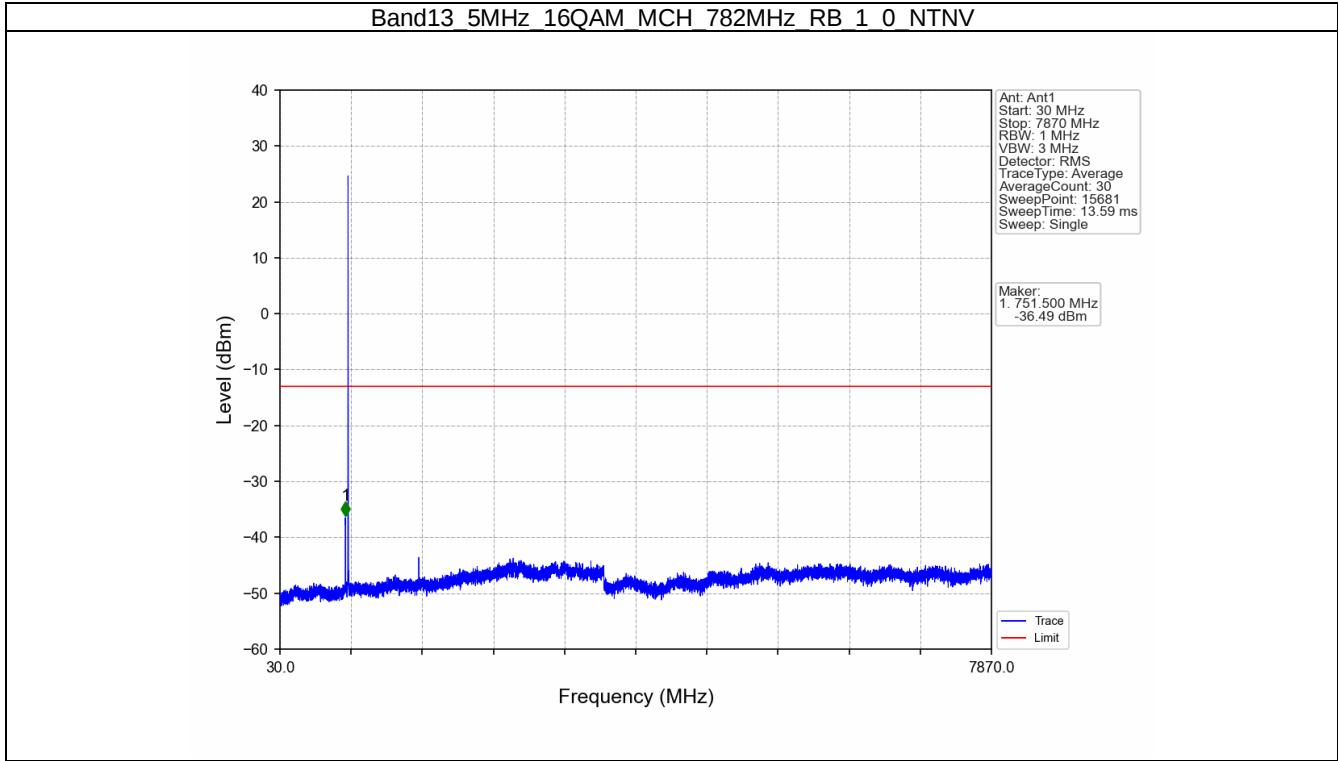


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.371	-60.10	-13	Pass
763	775	0.00625	/	2	774.964	-63.54	-35	Pass
775	776.9	0.1	CHP	3	776.824	-27.99	-13	Pass
776.9	777	0.03	/	4	776.988	-38.49	-13	Pass
777	784.5	0.03	/	/	/	/	/	/



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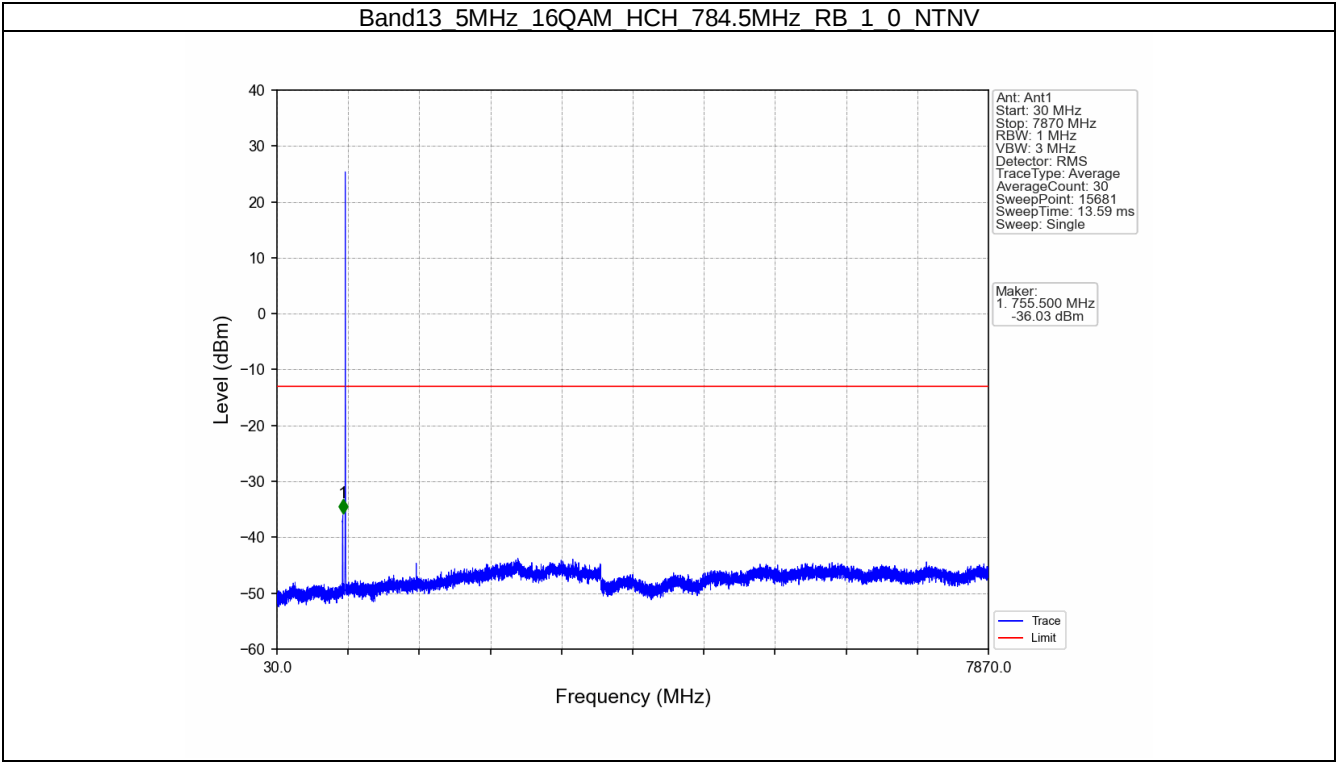
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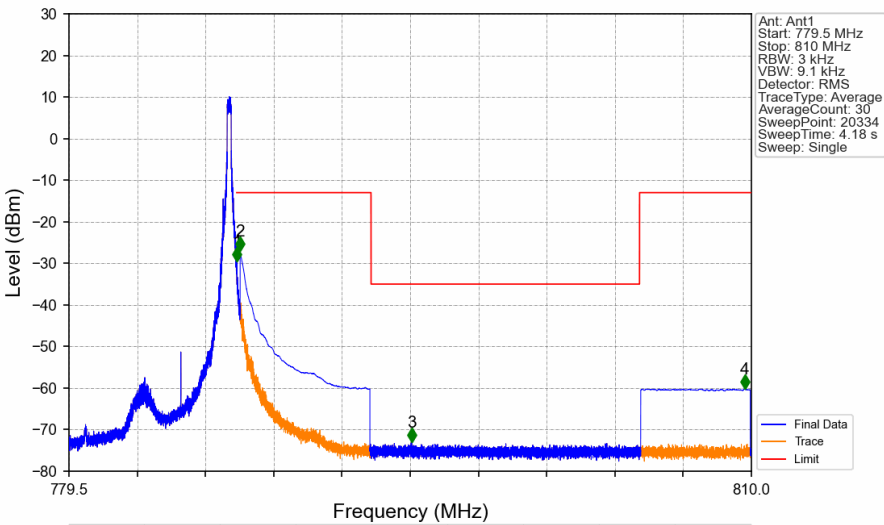


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Band13 5MHz 16QAM HCH 784.5MHz RB 1 24 NTNV



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	-29.56	-13	Pass
787.1	793	0.1	CHP	2	787.150	-27.05	-13	Pass
793	805	0.00625	/	3	794.817	-73.07	-35	Pass
805	810	0.1	CHP	4	809.707	-60.22	-13	Pass

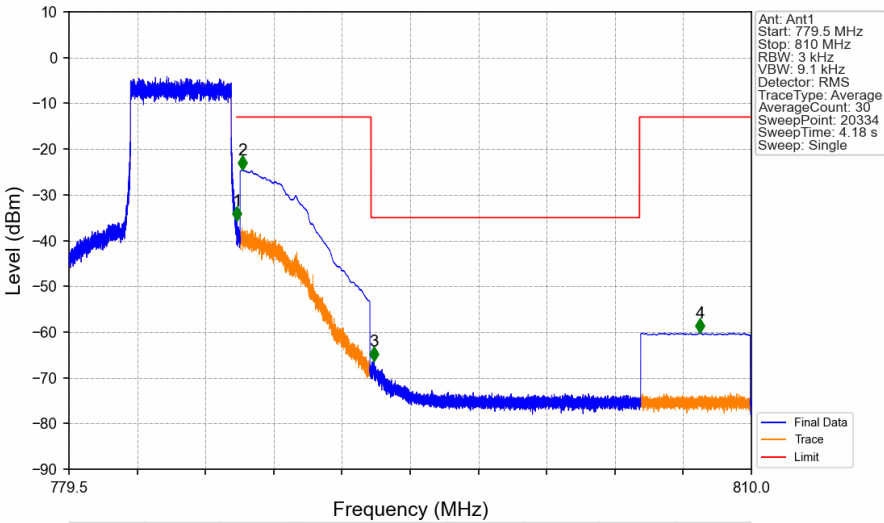


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Band13 5MHz 16QAM HCH 784.5MHz RB 25 0 NTN



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	787.015	-35.74	-13	Pass
787.1	793	0.1	CHP	2	787.243	-24.52	-13	Pass
793	805	0.00625	/	3	793.132	-66.38	-35	Pass
805	810	0.1	CHP	4	807.705	-60.25	-13	Pass

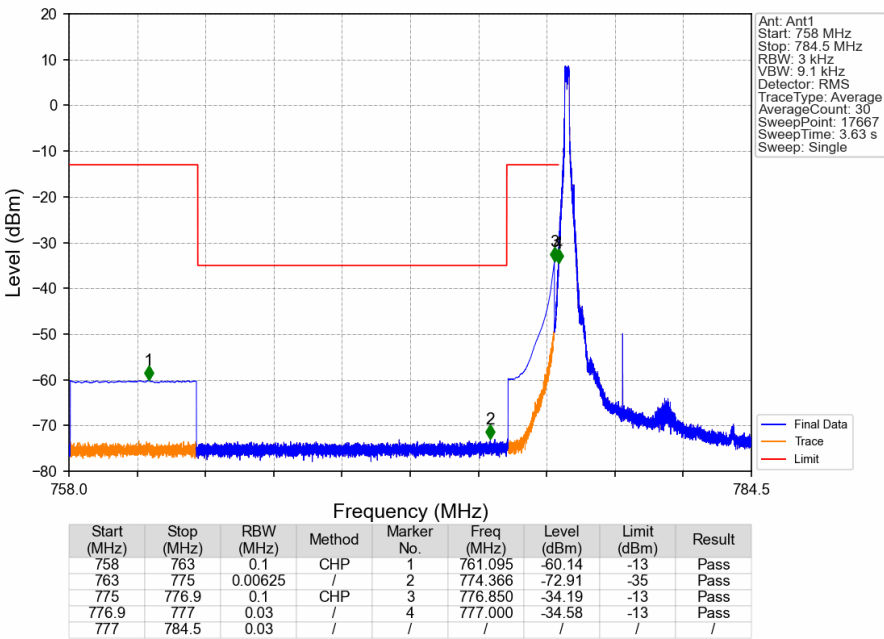


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Band13 5MHz 64QAM LCH 779.5MHz RB 1 0 NTV

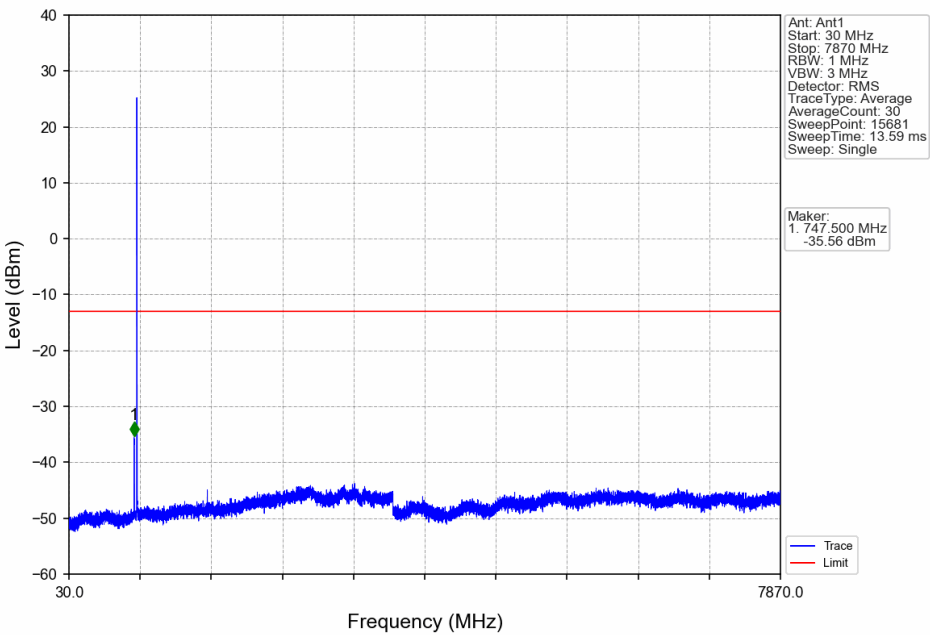




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Band13 5MHz 64QAM LCH 779.5MHz RB 1 0 NTV



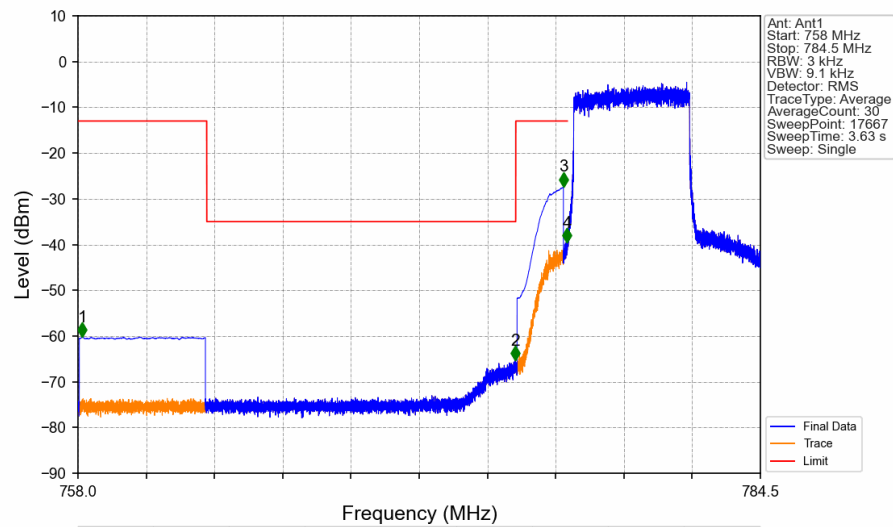


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Band13 5MHz 64QAM LCH 779.5MHz RB 25 0 NTNV



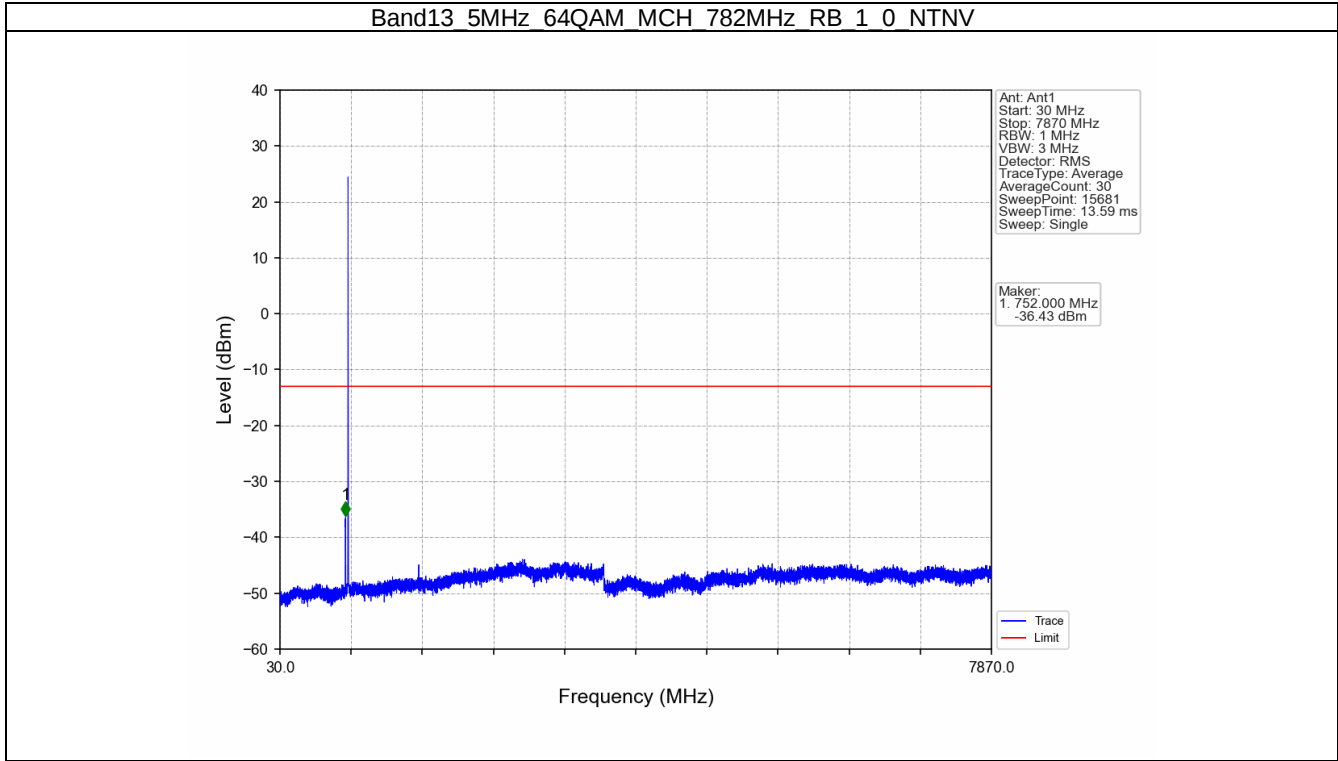
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	758.168	-60.25	-13	Pass
763	775	0.00625	/	2	774.976	-65.29	-35	Pass
775	776.9	0.1	CHP	3	776.850	-27.31	-13	Pass
776.9	777	0.03	/	4	776.986	-39.57	-13	Pass
777	784.5	0.03	/	/	/	/	/	/



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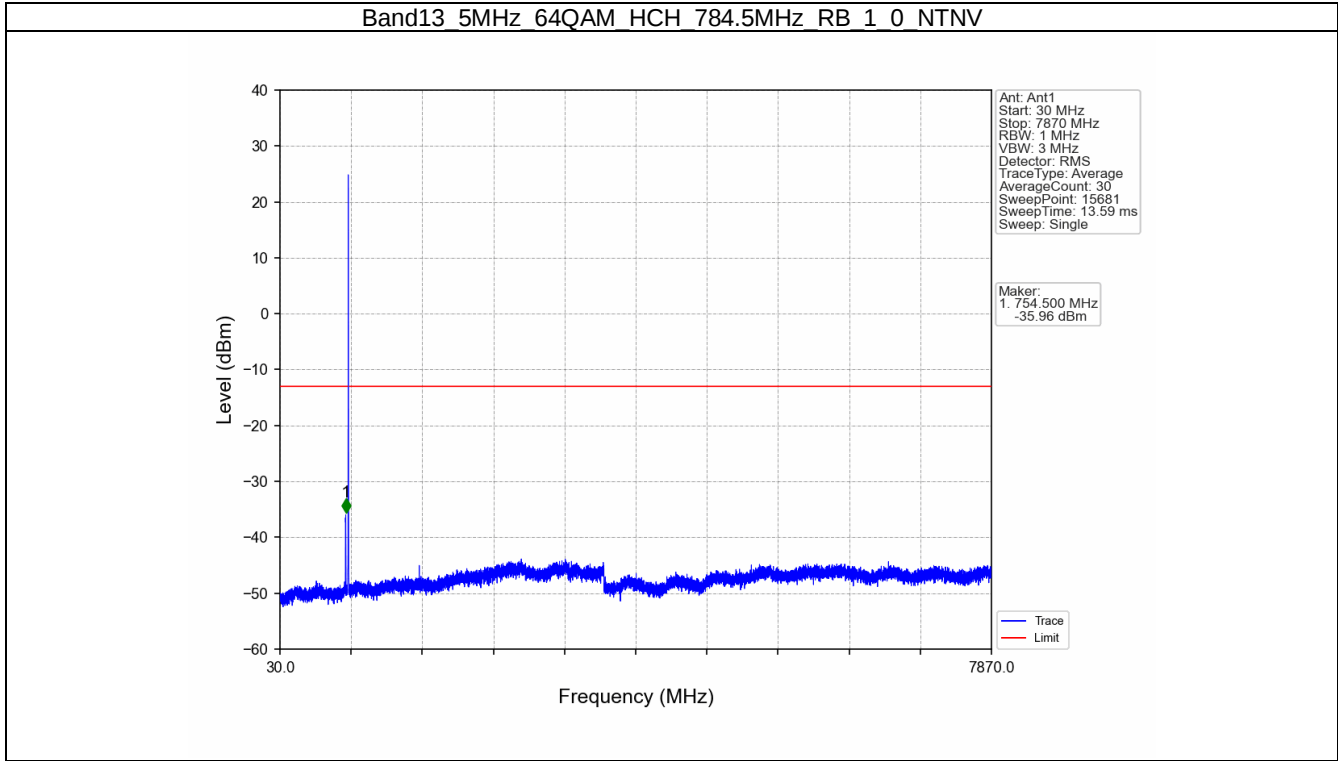




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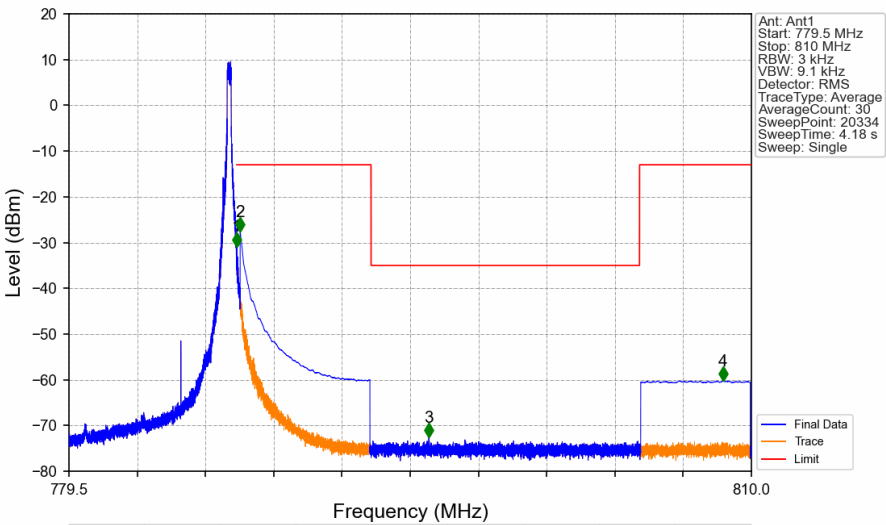


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Band13 5MHz 64QAM HCH 784.5MHz RB 1 24 NTNV



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	-30.88	-13	Pass
787.1	793	0.1	CHP	2	787.150	-27.69	-13	Pass
793	805	0.00625	/	3	795.586	-72.59	-35	Pass
805	810	0.1	CHP	4	808.740	-60.24	-13	Pass

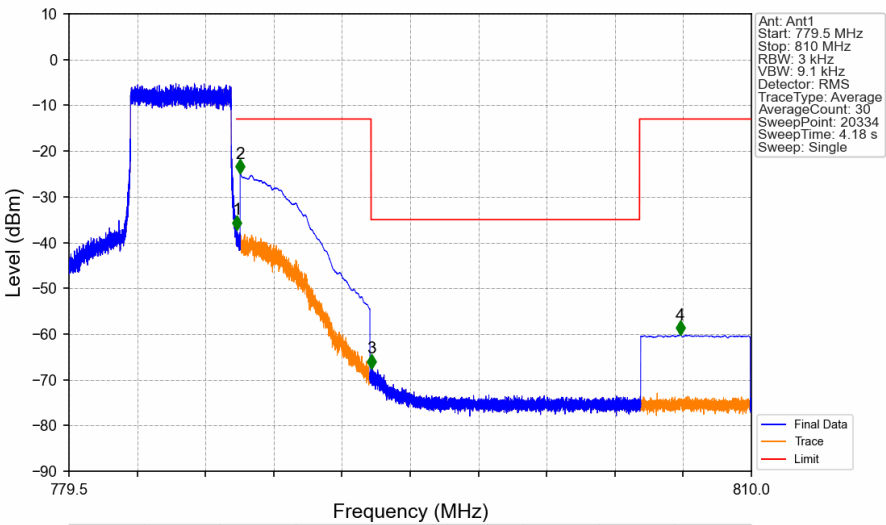


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Band13 5MHz 64QAM HCH 784.5MHz RB 25 0 NTN



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	-37.19	-13	Pass
787.1	793	0.1	CHP	2	787.150	-24.92	-13	Pass
793	805	0.00625	/	3	793.027	-67.52	-35	Pass
805	810	0.1	CHP	4	806.817	-60.17	-13	Pass



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4.2 B13_10MHz

4.2.1 Test Result

Band: 13 / Bandwidth: 10MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	782	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
16QAM	782	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
64QAM	782	1	0	Refer To Test Graph	Pass
			49	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass

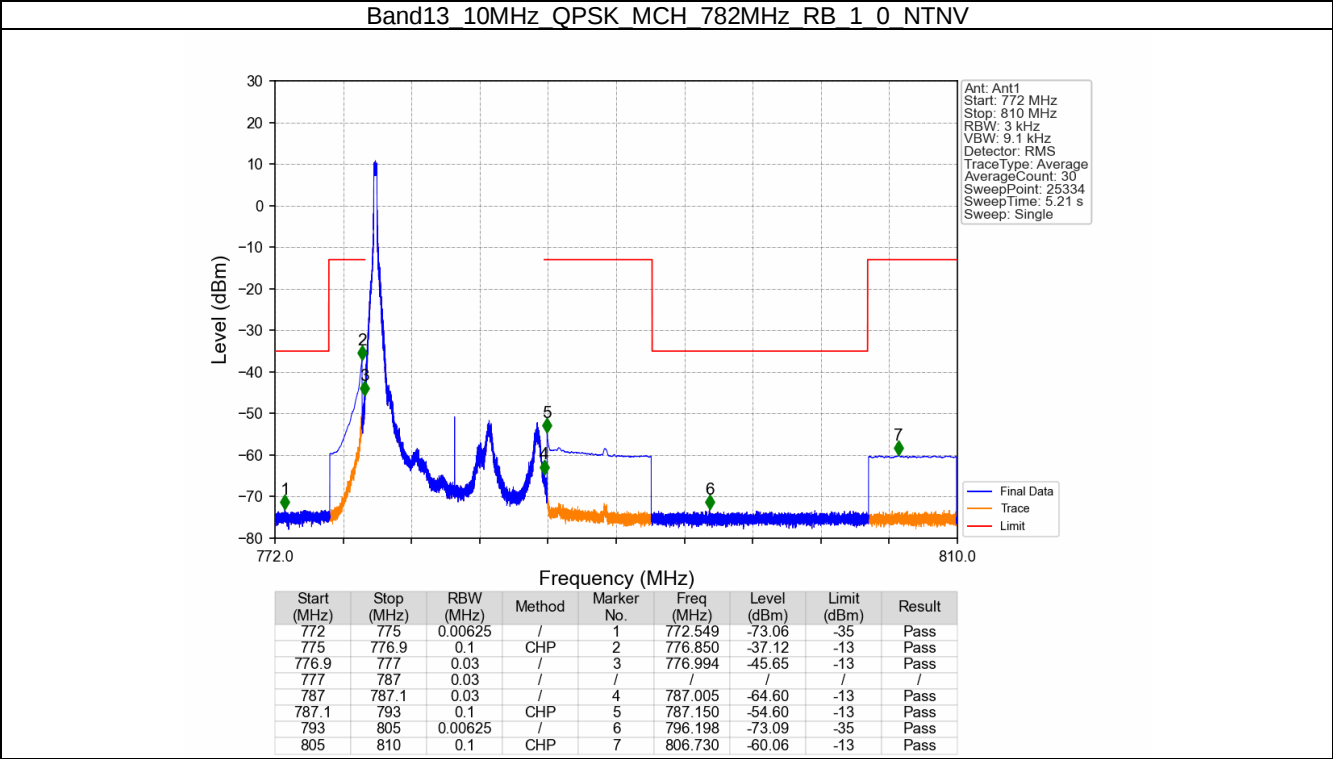


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4.2.2 Test Graph

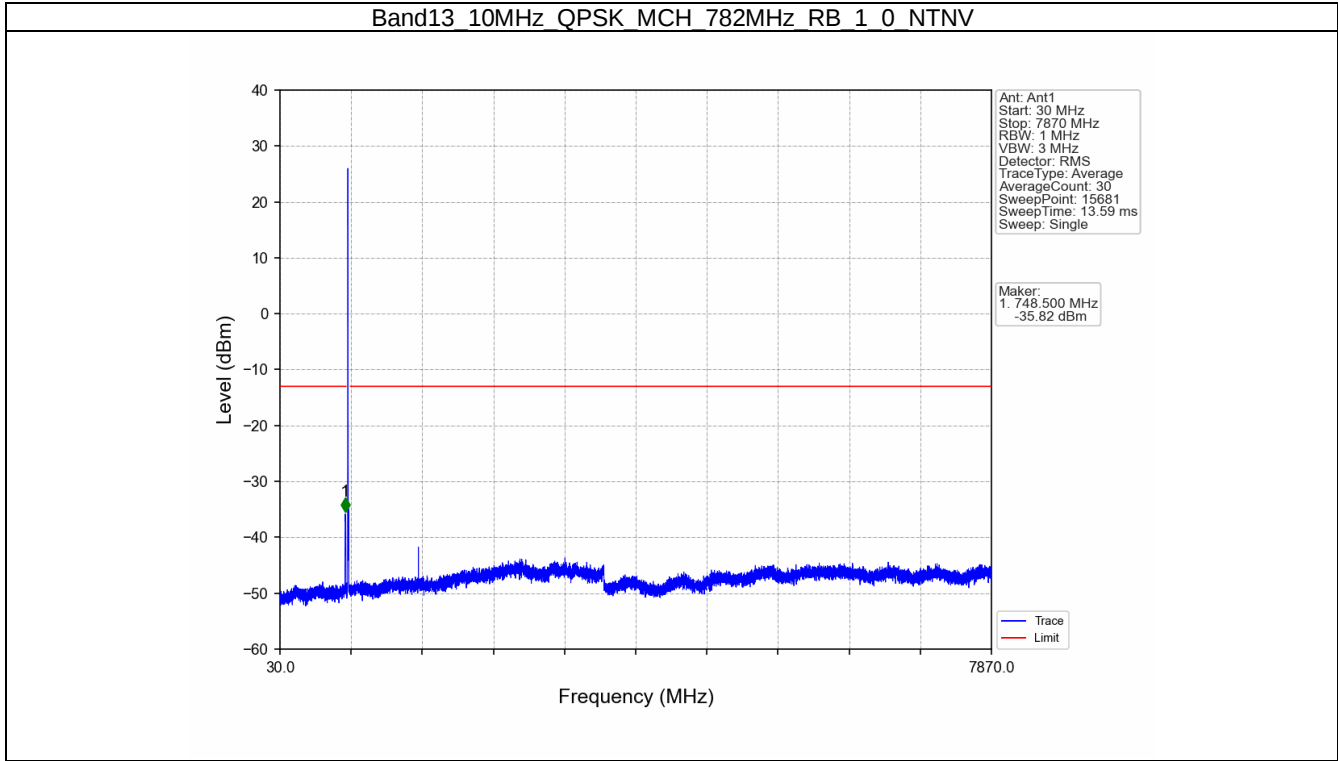




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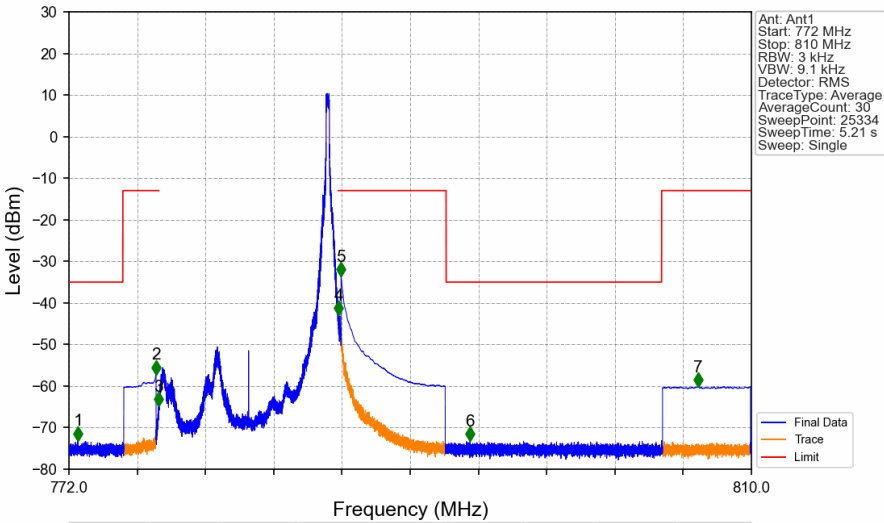


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Band13 10MHz QPSK MCH 782MHz RB 1 49 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	772.498	-73.11	-35	Pass
775	776.9	0.1	CHP	2	776.850	-57.23	-13	Pass
776.9	777	0.03	/	3	776.982	-64.86	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.006	-42.89	-13	Pass
787.1	793	0.1	CHP	5	787.150	-33.61	-13	Pass
793	805	0.00625	/	6	794.335	-73.25	-35	Pass
805	810	0.1	CHP	7	807.033	-60.18	-13	Pass

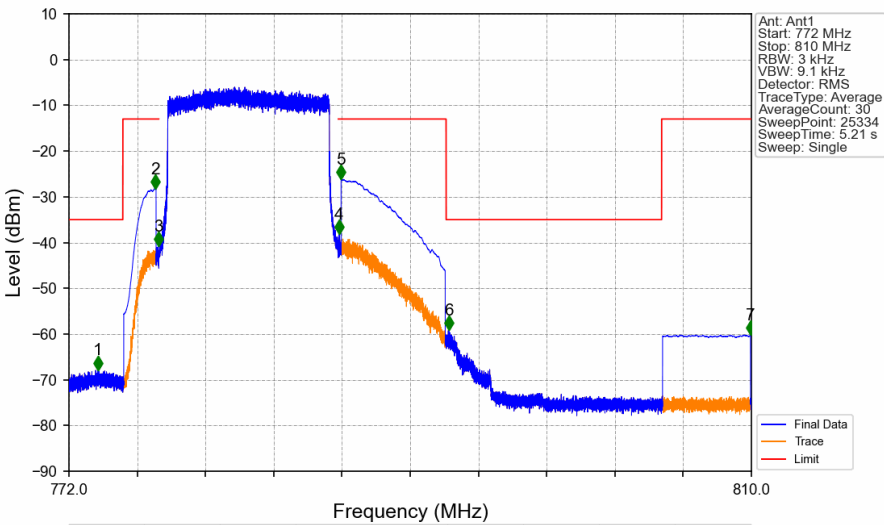


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Band13 10MHz QPSK MCH 782MHz RB 50 0 NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	773.607	-67.87	-35	Pass
775	776.9	0.1	CHP	2	776.805	-28.23	-13	Pass
776.9	777	0.03	/	3	776.970	-40.83	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.048	-38.19	-13	Pass
787.1	793	0.1	CHP	5	787.150	-26.21	-13	Pass
793	805	0.00625	/	6	793.153	-59.18	-35	Pass
805	810	0.1	CHP	7	809.938	-60.22	-13	Pass

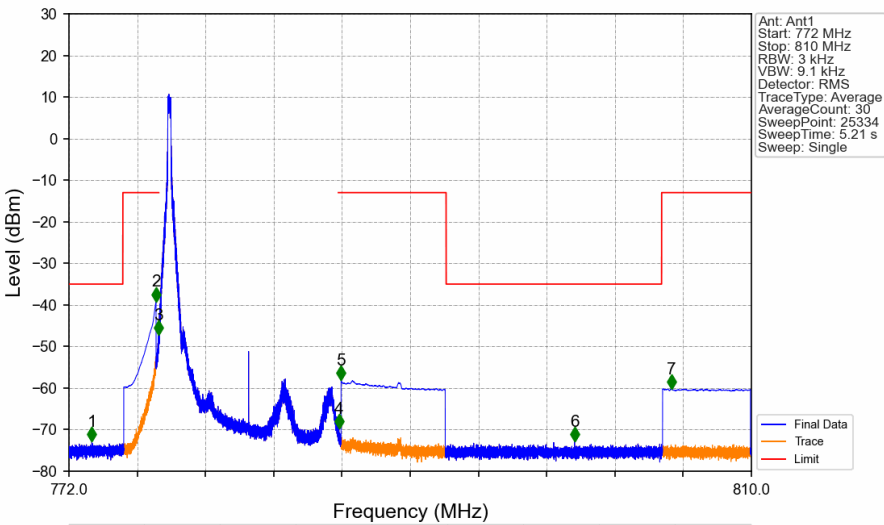


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Band13 10MHz 16QAM MCH 782MHz RB 1 0 NTV

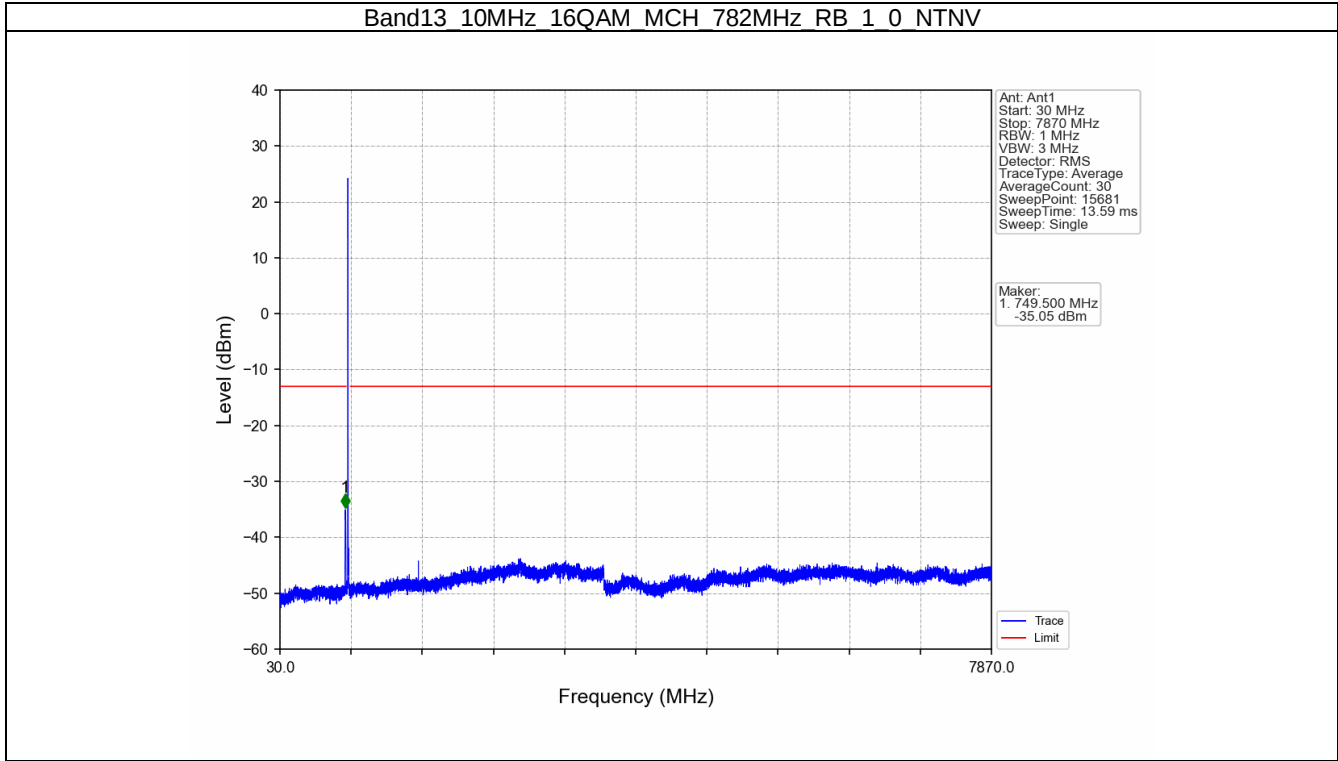


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	773.275	-72.90	-35	Pass
775	776.9	0.1	CHP	2	776.850	-39.17	-13	Pass
776.9	777	0.03	/	3	776.967	-47.19	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.030	-69.69	-13	Pass
787.1	793	0.1	CHP	5	787.150	-58.08	-13	Pass
793	805	0.00625	/	6	800.151	-72.86	-35	Pass
805	810	0.1	CHP	7	805.554	-60.16	-13	Pass



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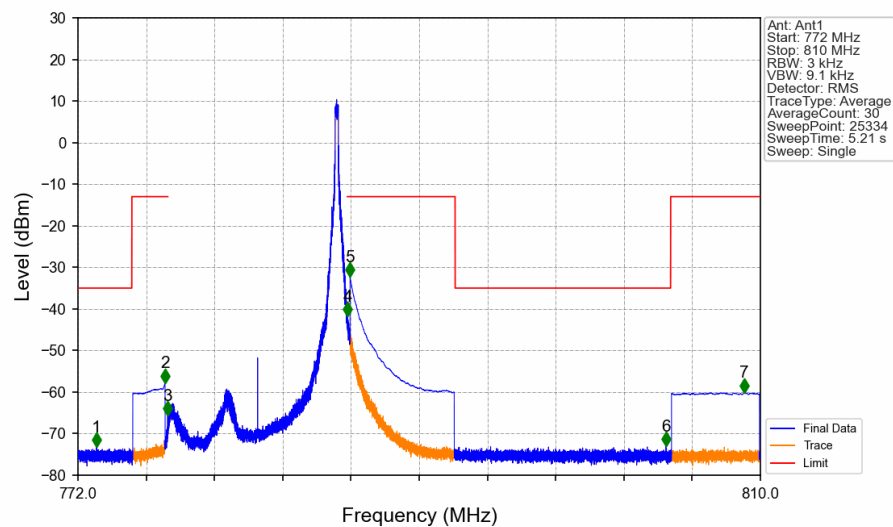


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Band13 10MHz 16QAM MCH 782MHz RB 1 49 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	773.014	-73.24	-35	Pass
775	776.9	0.1	CHP	2	776.850	-57.79	-13	Pass
776.9	777	0.03	/	3	776.998	-65.66	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.021	-41.74	-13	Pass
787.1	793	0.1	CHP	5	787.150	-32.30	-13	Pass
793	805	0.00625	/	6	804.739	-73.02	-35	Pass
805	810	0.1	CHP	7	809.106	-60.13	-13	Pass

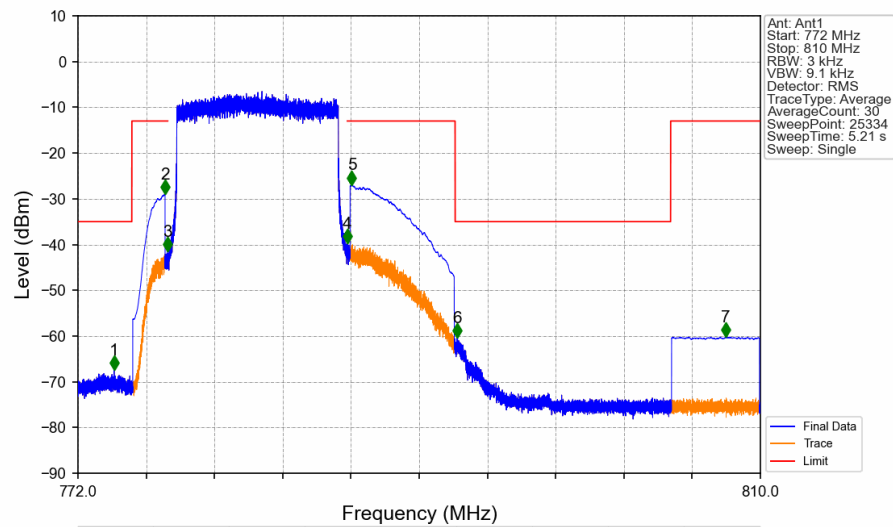


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Band13 10MHz 16QAM MCH 782MHz RB 50 0 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.013	-67.49	-35	Pass
775	776.9	0.1	CHP	2	776.848	-29.01	-13	Pass
776.9	777	0.03	/	3	776.968	-41.54	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.002	-39.77	-13	Pass
787.1	793	0.1	CHP	5	787.249	-26.97	-13	Pass
793	805	0.00625	/	6	793.102	-60.37	-35	Pass
805	810	0.1	CHP	7	808.054	-60.27	-13	Pass

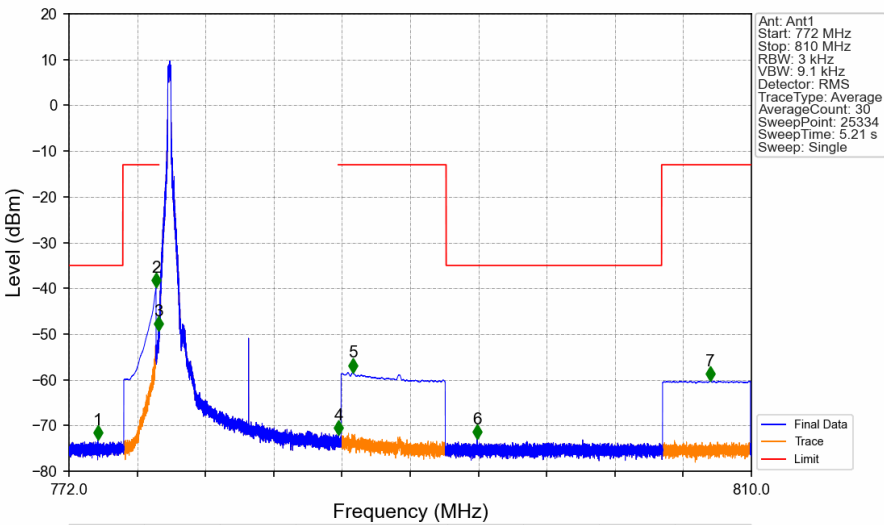


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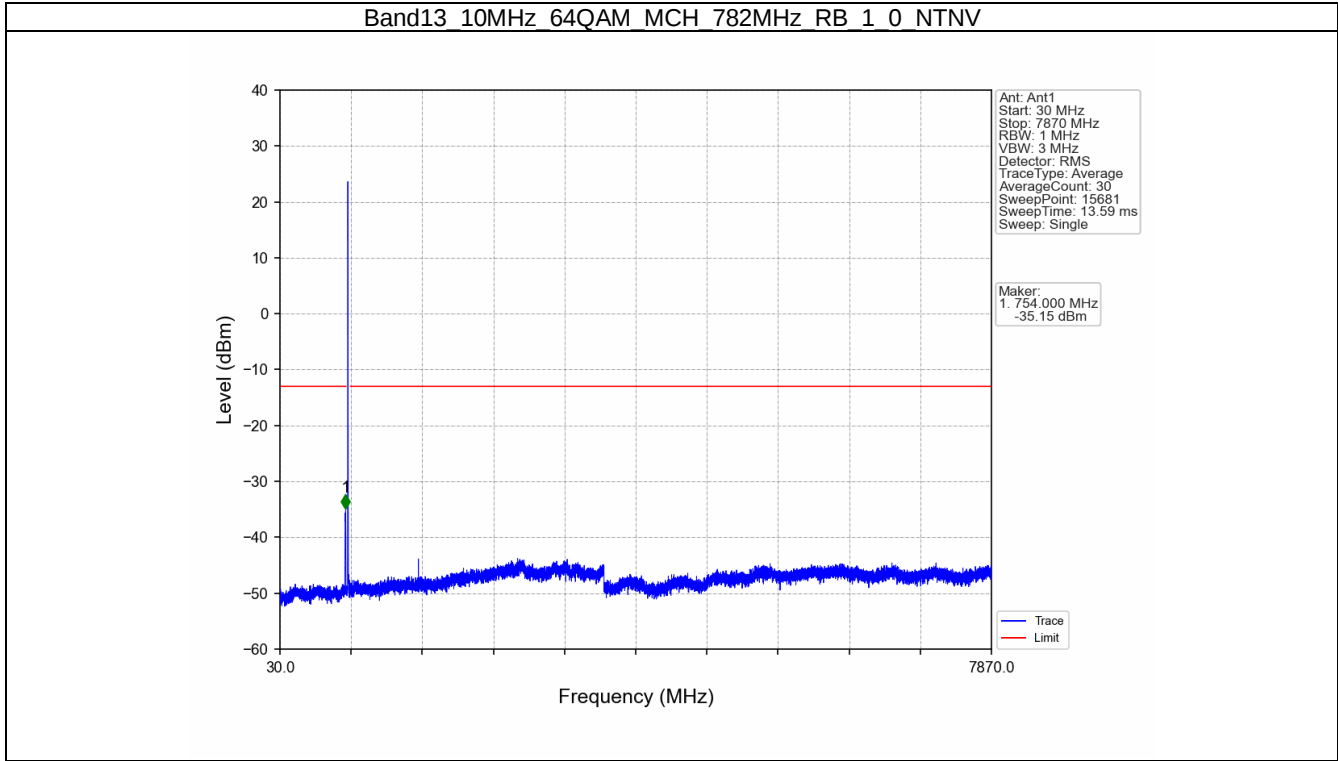


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	773.610	-73.07	-35	Pass
775	776.9	0.1	CHP	2	776.850	-39.79	-13	Pass
776.9	777	0.03	/	3	776.980	-49.32	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.014	-72.11	-13	Pass
787.1	793	0.1	CHP	5	787.798	-58.39	-13	Pass
793	805	0.00625	/	6	794.728	-72.96	-35	Pass
805	810	0.1	CHP	7	807.721	-60.24	-13	Pass



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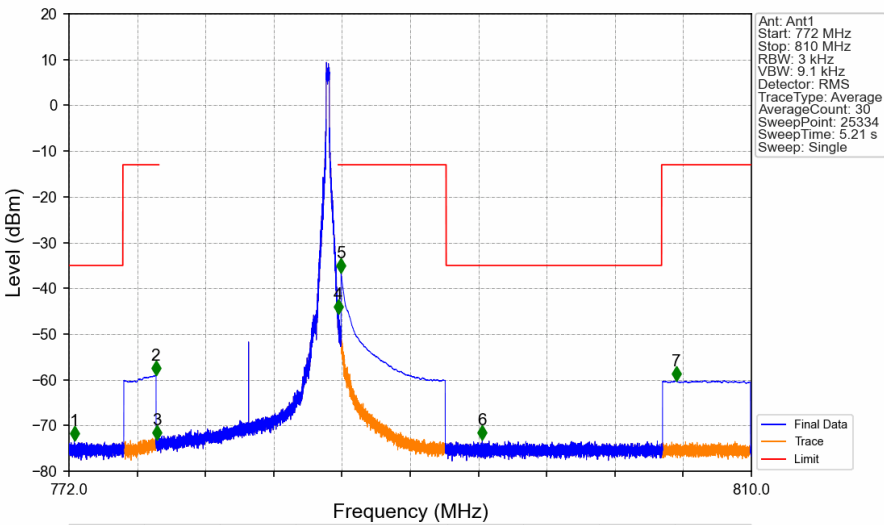


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Band13 10MHz 64QAM MCH 782MHz RB 1 49 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	772.293	-73.29	-35	Pass
775	776.9	0.1	CHP	2	776.836	-58.96	-13	Pass
776.9	777	0.03	/	3	776.902	-73.10	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.003	-45.68	-13	Pass
787.1	793	0.1	CHP	5	787.150	-36.56	-13	Pass
793	805	0.00625	/	6	795.015	-73.19	-35	Pass
805	810	0.1	CHP	7	805.812	-60.19	-13	Pass

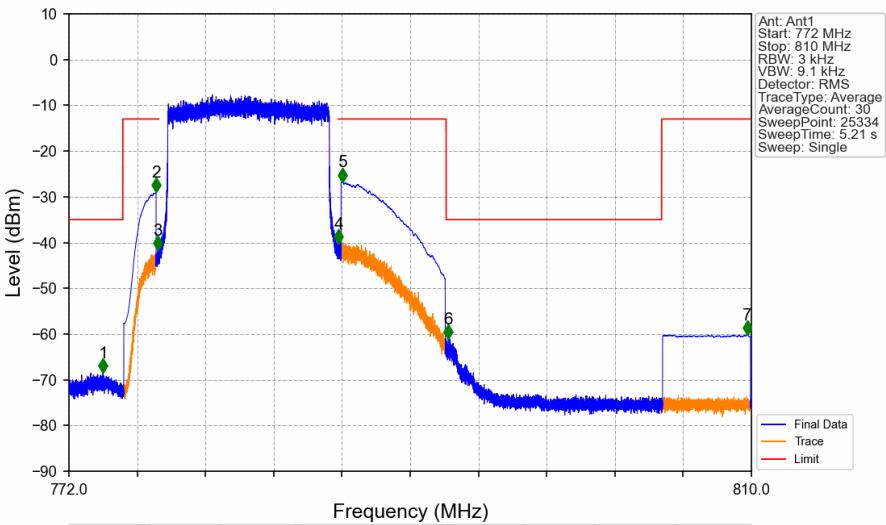


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Band13 10MHz 64QAM MCH 782MHz RB 50 0 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	773.895	-68.48	-35	Pass
775	776.9	0.1	CHP	2	776.847	-28.98	-13	Pass
776.9	777	0.03	/	3	776.952	-41.64	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.014	-40.33	-13	Pass
787.1	793	0.1	CHP	5	787.224	-26.78	-13	Pass
793	805	0.00625	/	6	793.123	-61.08	-35	Pass
805	810	0.1	CHP	7	809.767	-60.17	-13	Pass



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5. Effective (Isotropic) Radiated Power Output Data

ANT1

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	23.50	21.03	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.56	21.09	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.46	20.99	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.58	20.11	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.52	21.05	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.62	21.15	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.53	21.06	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.60	20.13	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.53	21.06	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.75	21.28	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.50	21.03	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.66	20.19	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.78	20.31	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	23.05	20.58	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.94	20.47	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.68	19.21	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.85	20.38	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.79	20.32	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.86	20.39	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.57	19.1	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.81	20.34	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.89	20.42	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.84	20.37	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.63	19.16	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	21.65	19.18	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	21.43	18.96	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	21.84	19.37	34.77	PASS



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Band13	5MHz	64QAM	23205	25RB#0	20.64	18.17	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	21.93	19.46	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	21.82	19.35	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	21.86	19.39	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	20.54	18.07	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	21.77	19.3	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	21.67	19.2	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	21.93	19.46	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	20.68	18.21	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.60	21.13	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.72	21.25	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.81	21.34	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.63	20.16	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	23.04	20.57	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.81	20.34	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	23.14	20.67	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.59	19.12	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	21.72	19.25	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	21.86	19.39	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	21.93	19.46	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	20.55	18.08	34.77	PASS



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6. Field Strength of Spurious Radiation

Test Band = LTE Band13_10M_ TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.1800	43.42	-48.30	25.18	-74.96	-13.00	61.96	Horizontal
2	2332.7700	42.68	-47.48	26.83	-73.23	-13.00	60.23	Horizontal
3	3110.3600	42.74	-46.70	28.37	-70.85	-13.00	57.85	Horizontal
4	3887.9500	41.56	-46.22	28.99	-70.93	-13.00	57.93	Horizontal
5	4665.5400	40.70	-45.80	30.66	-69.69	-13.00	56.69	Horizontal
6	5443.1300	40.23	-45.04	32.46	-67.61	-13.00	54.61	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.1800	43.27	-48.30	25.18	-75.11	-13.00	62.11	Vertical
2	2332.7700	42.49	-47.48	26.83	-73.42	-13.00	60.42	Vertical
3	3110.3600	42.29	-46.70	28.37	-71.30	-13.00	58.30	Vertical
4	3887.9500	41.10	-46.22	28.99	-71.39	-13.00	58.39	Vertical
5	4665.5400	40.49	-45.80	30.66	-69.90	-13.00	56.90	Vertical
6	5443.1300	40.97	-45.04	32.46	-66.87	-13.00	53.87	Vertical



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Test Band = LTE Band13_5M_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.6800	43.27	-48.30	25.18	-75.11	-13.00	62.11	Horizontal
2	2332.0200	42.69	-47.48	26.83	-73.22	-13.00	60.22	Horizontal
3	3109.3600	42.58	-46.71	28.37	-71.02	-13.00	58.02	Horizontal
4	3886.7000	40.70	-46.22	28.99	-71.79	-13.00	58.79	Horizontal
5	4664.0400	40.02	-45.80	30.66	-70.37	-13.00	57.37	Horizontal
6	5441.3800	40.06	-45.04	32.46	-67.78	-13.00	54.78	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.6800	44.15	-48.30	25.18	-74.23	-13.00	61.23	Vertical
2	2332.0200	42.57	-47.48	26.83	-73.34	-13.00	60.34	Vertical
3	3109.3600	42.30	-46.71	28.37	-71.30	-13.00	58.30	Vertical
4	3886.7000	40.85	-46.22	28.99	-71.64	-13.00	58.64	Vertical
5	4664.0400	40.41	-45.80	30.66	-69.98	-13.00	56.98	Vertical
6	5441.3800	39.96	-45.04	32.46	-67.88	-13.00	54.88	Vertical



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Test Band = LTE Band13_5M_ TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.6800	43.46	-48.30	25.18	-74.92	-40.00	34.92	Horizontal
2	2339.5200	43.06	-47.48	26.85	-72.83	-13.00	59.83	Horizontal
3	3119.3600	41.84	-46.66	28.37	-71.71	-13.00	58.71	Horizontal
4	3899.2000	41.30	-46.23	29.00	-71.19	-13.00	58.19	Horizontal
5	4679.0400	39.93	-45.80	30.69	-70.43	-13.00	57.43	Horizontal
6	5458.8800	40.82	-45.07	32.50	-67.01	-13.00	54.01	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.6800	43.09	-48.30	25.18	-75.29	-40.00	35.29	Vertical
2	2339.5200	42.98	-47.48	26.85	-72.91	-13.00	59.91	Vertical
3	3119.3600	42.33	-46.66	28.37	-71.22	-13.00	58.22	Vertical
4	3899.2000	40.98	-46.23	29.00	-71.51	-13.00	58.51	Vertical
5	4679.0400	39.75	-45.80	30.69	-70.61	-13.00	57.61	Vertical
6	5458.8800	40.27	-45.07	32.50	-67.56	-13.00	54.56	Vertical



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Test Band = LTE Band13_5M_ TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.6800	43.14	-48.29	25.18	-75.23	-40.00	35.23	Horizontal
2	2347.0200	42.76	-47.48	26.87	-73.10	-13.00	60.10	Horizontal
3	3129.3600	42.37	-46.61	28.38	-71.13	-13.00	58.13	Horizontal
4	3911.7000	40.97	-46.23	29.01	-71.50	-13.00	58.50	Horizontal
5	4694.0400	40.49	-45.80	30.73	-69.84	-13.00	56.84	Horizontal
6	5476.3800	40.01	-45.10	32.54	-67.81	-13.00	54.81	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.6800	42.65	-48.29	25.18	-75.72	-40.00	35.72	Vertical
2	2347.0200	43.02	-47.48	26.87	-72.84	-13.00	59.84	Vertical
3	3129.3600	42.32	-46.61	28.38	-71.18	-13.00	58.18	Vertical
4	3911.7000	41.12	-46.23	29.01	-71.35	-13.00	58.35	Vertical
5	4694.0400	40.33	-45.80	30.73	-70.00	-13.00	57.00	Vertical
6	5476.3800	40.55	-45.10	32.54	-67.27	-13.00	54.27	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) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---