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Appendix B.12

LTE Band 13



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1. Effective (Isotropic) Radiated Power Output Data

Ant31

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	23.20	-7.03	14.02	<=34.77	Pass		
			13	23.26	-7.03	14.08	<=34.77	Pass		
			24	23.16	-7.03	13.98	<=34.77	Pass		
		12	0	22.13	-7.03	12.95	<=34.77	Pass		
			6	22.23	-7.03	13.05	<=34.77	Pass		
			13	22.21	-7.03	13.03	<=34.77	Pass		
		25	0	22.23	-7.03	13.05	<=34.77	Pass		
		782	1	0	23.26	-7.03	14.08	<=34.77	Pass	
				13	23.28	-7.03	14.10	<=34.77	Pass	
	24			23.18	-7.03	14.00	<=34.77	Pass		
	12		0	22.20	-7.03	13.02	<=34.77	Pass		
			6	22.20	-7.03	13.02	<=34.77	Pass		
			13	22.25	-7.03	13.07	<=34.77	Pass		
	25		0	22.18	-7.03	13.00	<=34.77	Pass		
	784.5		1	0	23.22	-7.03	14.04	<=34.77	Pass	
				13	23.27	-7.03	14.09	<=34.77	Pass	
		24		23.17	-7.03	13.99	<=34.77	Pass		
		12	0	22.19	-7.03	13.01	<=34.77	Pass		
			6	22.21	-7.03	13.03	<=34.77	Pass		
			13	22.26	-7.03	13.08	<=34.77	Pass		
		25	0	22.18	-7.03	13.00	<=34.77	Pass		
		16QAM	779.5	1	0	22.22	-7.03	13.04	<=34.77	Pass
					13	22.30	-7.03	13.12	<=34.77	Pass
	24				22.20	-7.03	13.02	<=34.77	Pass	
12	0			21.13	-7.03	11.95	<=34.77	Pass		
	6			21.33	-7.03	12.15	<=34.77	Pass		
	13			21.28	-7.03	12.10	<=34.77	Pass		
25	0			21.23	-7.03	12.05	<=34.77	Pass		
782	1			0	22.32	-7.03	13.14	<=34.77	Pass	
				13	22.36	-7.03	13.18	<=34.77	Pass	
			24	22.28	-7.03	13.10	<=34.77	Pass		
	12		0	21.24	-7.03	12.06	<=34.77	Pass		
			6	21.18	-7.03	12.00	<=34.77	Pass		
			13	21.29	-7.03	12.11	<=34.77	Pass		
	25		0	21.18	-7.03	12.00	<=34.77	Pass		



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64QAM	784.5	1	0	22.27	-7.03	13.09	<=34.77	Pass	
			13	22.42	-7.03	13.24	<=34.77	Pass	
			24	22.36	-7.03	13.18	<=34.77	Pass	
		12	0	21.18	-7.03	12.00	<=34.77	Pass	
			6	21.27	-7.03	12.09	<=34.77	Pass	
			13	21.31	-7.03	12.13	<=34.77	Pass	
	25	0	21.18	-7.03	12.00	<=34.77	Pass		
	64QAM	779.5	1	0	21.36	-7.03	12.18	<=34.77	Pass
				13	21.44	-7.03	12.26	<=34.77	Pass
				24	21.30	-7.03	12.12	<=34.77	Pass
			12	0	20.15	-7.03	10.97	<=34.77	Pass
				6	20.26	-7.03	11.08	<=34.77	Pass
13				20.25	-7.03	11.07	<=34.77	Pass	
25			0	20.25	-7.03	11.07	<=34.77	Pass	
782			1	0	21.46	-7.03	12.28	<=34.77	Pass
				13	21.54	-7.03	12.36	<=34.77	Pass
		24		21.49	-7.03	12.31	<=34.77	Pass	
		12	0	20.18	-7.03	11.00	<=34.77	Pass	
			6	20.26	-7.03	11.08	<=34.77	Pass	
			13	20.26	-7.03	11.08	<=34.77	Pass	
25		0	20.19	-7.03	11.01	<=34.77	Pass		
784.5		1	0	21.28	-7.03	12.10	<=34.77	Pass	
			13	21.35	-7.03	12.17	<=34.77	Pass	
			24	21.29	-7.03	12.11	<=34.77	Pass	
		12	0	20.19	-7.03	11.01	<=34.77	Pass	
	6		20.22	-7.03	11.04	<=34.77	Pass		
	13		20.29	-7.03	11.11	<=34.77	Pass		
	25	0	20.19	-7.03	11.01	<=34.77	Pass		

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	-7.03	14.06	<=34.77	Pass
			25	23.26	-7.03	14.08	<=34.77	Pass
			49	23.15	-7.03	13.97	<=34.77	Pass
		25	0	22.20	-7.03	13.02	<=34.77	Pass
			13	22.20	-7.03	13.02	<=34.77	Pass
			25	22.25	-7.03	13.07	<=34.77	Pass
50	0	22.22	-7.03	13.04	<=34.77	Pass		
16QAM	782	1	0	22.48	-7.03	13.30	<=34.77	Pass
			25	22.46	-7.03	13.28	<=34.77	Pass
			49	22.36	-7.03	13.18	<=34.77	Pass



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		25	0	21.25	-7.03	12.07	<=34.77	Pass
			13	21.26	-7.03	12.08	<=34.77	Pass
			25	21.28	-7.03	12.10	<=34.77	Pass
		50	0	21.20	-7.03	12.02	<=34.77	Pass
			0	21.44	-7.03	12.26	<=34.77	Pass
64QAM	782	1	0	21.44	-7.03	12.26	<=34.77	Pass
			25	21.30	-7.03	12.12	<=34.77	Pass
			49	21.32	-7.03	12.14	<=34.77	Pass
		25	0	20.22	-7.03	11.04	<=34.77	Pass
			13	20.20	-7.03	11.02	<=34.77	Pass
			25	20.25	-7.03	11.07	<=34.77	Pass
		50	0	20.22	-7.03	11.04	<=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	3.7	0.195	0.0003	-2.5 to 2.5	Pass	
					3.91	1.997	0.0026	-2.5 to 2.5	Pass	
					4.4	1.005	0.0013	-2.5 to 2.5	Pass	
				-30	3.91	-0.596	-0.0008	-2.5 to 2.5	Pass	
					-20	3.91	-0.415	-0.0005	-2.5 to 2.5	Pass
					-10	3.91	-0.035	0.0000	-2.5 to 2.5	Pass
				0	3.91	0.922	0.0012	-2.5 to 2.5	Pass	
					10	3.91	0.738	0.0009	-2.5 to 2.5	Pass
					30	3.91	1.119	0.0014	-2.5 to 2.5	Pass
	40	3.91	0.505	0.0006	-2.5 to 2.5	Pass				
		50	3.91	1.948	0.0025	-2.5 to 2.5	Pass			
		782	25	0	20	3.7	1.290	0.0016	-2.5 to 2.5	Pass
	3.91					1.629	0.0021	-2.5 to 2.5	Pass	
	4.4					1.995	0.0026	-2.5 to 2.5	Pass	
	-30				3.91	1.544	0.0020	-2.5 to 2.5	Pass	
					-20	3.91	1.403	0.0018	-2.5 to 2.5	Pass
					-10	3.91	1.481	0.0019	-2.5 to 2.5	Pass
	0				3.91	2.377	0.0030	-2.5 to 2.5	Pass	
					10	3.91	1.757	0.0022	-2.5 to 2.5	Pass
					30	3.91	0.407	0.0005	-2.5 to 2.5	Pass
	40	3.91	0.854	0.0011	-2.5 to 2.5	Pass				
		50	3.91	2.202	0.0028	-2.5 to 2.5	Pass			
		784.5	25	0	20	3.7	3.060	0.0039	-2.5 to 2.5	Pass
	3.91					2.116	0.0027	-2.5 to 2.5	Pass	
	4.4					0.780	0.0010	-2.5 to 2.5	Pass	
	-30				3.91	1.305	0.0017	-2.5 to 2.5	Pass	
					-20	3.91	1.335	0.0017	-2.5 to 2.5	Pass
-10					3.91	0.951	0.0012	-2.5 to 2.5	Pass	
0	3.91				1.052	0.0013	-2.5 to 2.5	Pass		
	10				3.91	1.194	0.0015	-2.5 to 2.5	Pass	
	30				3.91	1.682	0.0021	-2.5 to 2.5	Pass	
40	3.91	-0.325	-0.0004	-2.5 to 2.5	Pass					
	50	3.91	1.047	0.0013	-2.5 to 2.5	Pass				
	16QAM	779.5	25	0	20	3.7	-0.105	-0.0001	-2.5 to 2.5	Pass
3.91						0.071	0.0001	-2.5 to 2.5	Pass	
4.4						0.886	0.0011	-2.5 to 2.5	Pass	
-30						3.91	-0.215	-0.0003	-2.5 to 2.5	Pass



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64QAM	782	25	0	-20	3.91	-0.050	-0.0001	-2.5 to 2.5	Pass
				-10	3.91	-0.541	-0.0007	-2.5 to 2.5	Pass
				0	3.91	-1.073	-0.0014	-2.5 to 2.5	Pass
				10	3.91	0.288	0.0004	-2.5 to 2.5	Pass
				30	3.91	0.425	0.0005	-2.5 to 2.5	Pass
				40	3.91	0.391	0.0005	-2.5 to 2.5	Pass
				50	3.91	0.892	0.0011	-2.5 to 2.5	Pass
	784.5	25	0	20	3.7	1.857	0.0024	-2.5 to 2.5	Pass
					3.91	0.466	0.0006	-2.5 to 2.5	Pass
					4.4	2.474	0.0032	-2.5 to 2.5	Pass
				-30	3.91	1.436	0.0018	-2.5 to 2.5	Pass
				-20	3.91	0.350	0.0004	-2.5 to 2.5	Pass
				-10	3.91	0.379	0.0005	-2.5 to 2.5	Pass
				0	3.91	1.459	0.0019	-2.5 to 2.5	Pass
				10	3.91	0.494	0.0006	-2.5 to 2.5	Pass
				30	3.91	-0.450	-0.0006	-2.5 to 2.5	Pass
				40	3.91	1.256	0.0016	-2.5 to 2.5	Pass
	50	3.91	1.480	0.0019	-2.5 to 2.5	Pass			
	779.5	25	0	20	3.7	1.997	0.0025	-2.5 to 2.5	Pass
					3.91	0.450	0.0006	-2.5 to 2.5	Pass
					4.4	1.180	0.0015	-2.5 to 2.5	Pass
				-30	3.91	1.037	0.0013	-2.5 to 2.5	Pass
				-20	3.91	1.020	0.0013	-2.5 to 2.5	Pass
				-10	3.91	0.023	0.0000	-2.5 to 2.5	Pass
				0	3.91	0.366	0.0005	-2.5 to 2.5	Pass
				10	3.91	1.069	0.0014	-2.5 to 2.5	Pass
				30	3.91	0.555	0.0007	-2.5 to 2.5	Pass
				40	3.91	1.692	0.0022	-2.5 to 2.5	Pass
50	3.91	0.852	0.0011	-2.5 to 2.5	Pass				
782	25	0	20	3.7	0.457	0.0006	-2.5 to 2.5	Pass	
				3.91	1.147	0.0015	-2.5 to 2.5	Pass	
				4.4	1.047	0.0013	-2.5 to 2.5	Pass	
			-30	3.91	-0.888	-0.0011	-2.5 to 2.5	Pass	
			-20	3.91	-0.014	0.0000	-2.5 to 2.5	Pass	
			-10	3.91	0.996	0.0013	-2.5 to 2.5	Pass	
			0	3.91	0.228	0.0003	-2.5 to 2.5	Pass	
			10	3.91	1.342	0.0017	-2.5 to 2.5	Pass	
			30	3.91	0.388	0.0005	-2.5 to 2.5	Pass	
			40	3.91	1.321	0.0017	-2.5 to 2.5	Pass	
50	3.91	1.193	0.0015	-2.5 to 2.5	Pass				
782	25	0	20	3.7	0.759	0.0010	-2.5 to 2.5	Pass	
				3.91	1.431	0.0018	-2.5 to 2.5	Pass	
				4.4	0.207	0.0003	-2.5 to 2.5	Pass	
			-30	3.91	1.239	0.0016	-2.5 to 2.5	Pass	
			-20	3.91	0.115	0.0001	-2.5 to 2.5	Pass	
			-10	3.91	-0.532	-0.0007	-2.5 to 2.5	Pass	
			0	3.91	0.021	0.0000	-2.5 to 2.5	Pass	
10	3.91	-0.093	-0.0001	-2.5 to 2.5	Pass				



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				30	3.91	-0.615	-0.0008	-2.5 to 2.5	Pass
				40	3.91	0.639	0.0008	-2.5 to 2.5	Pass
				50	3.91	-0.027	0.0000	-2.5 to 2.5	Pass
	784.5	25	0	20	3.7	1.194	0.0015	-2.5 to 2.5	Pass
3.91					-0.134	-0.0002	-2.5 to 2.5	Pass	
4.4					0.775	0.0010	-2.5 to 2.5	Pass	
-30				3.91	0.180	0.0002	-2.5 to 2.5	Pass	
-20				3.91	1.767	0.0023	-2.5 to 2.5	Pass	
-10				3.91	-1.030	-0.0013	-2.5 to 2.5	Pass	
0				3.91	1.663	0.0021	-2.5 to 2.5	Pass	
10				3.91	0.927	0.0012	-2.5 to 2.5	Pass	
30				3.91	-0.569	-0.0007	-2.5 to 2.5	Pass	
40				3.91	1.299	0.0017	-2.5 to 2.5	Pass	
50				3.91	1.296	0.0017	-2.5 to 2.5	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	3.7	1.327	0.0017	-2.5 to 2.5	Pass	
					3.91	1.520	0.0019	-2.5 to 2.5	Pass	
					4.4	0.172	0.0002	-2.5 to 2.5	Pass	
				-30	3.91	1.045	0.0013	-2.5 to 2.5	Pass	
					-20	3.91	-0.777	-0.0010	-2.5 to 2.5	Pass
					-10	3.91	-0.186	-0.0002	-2.5 to 2.5	Pass
					0	3.91	0.926	0.0012	-2.5 to 2.5	Pass
					10	3.91	1.107	0.0014	-2.5 to 2.5	Pass
					30	3.91	1.172	0.0015	-2.5 to 2.5	Pass
					40	3.91	1.843	0.0024	-2.5 to 2.5	Pass
50	3.91	0.776	0.0010	-2.5 to 2.5	Pass					
16QAM	782	50	0	20	3.7	1.564	0.0020	-2.5 to 2.5	Pass	
					3.91	1.156	0.0015	-2.5 to 2.5	Pass	
					4.4	0.481	0.0006	-2.5 to 2.5	Pass	
				-30	3.91	1.601	0.0020	-2.5 to 2.5	Pass	
					-20	3.91	0.705	0.0009	-2.5 to 2.5	Pass
					-10	3.91	1.161	0.0015	-2.5 to 2.5	Pass
					0	3.91	0.800	0.0010	-2.5 to 2.5	Pass
					10	3.91	0.519	0.0007	-2.5 to 2.5	Pass
					30	3.91	1.270	0.0016	-2.5 to 2.5	Pass
					40	3.91	2.570	0.0033	-2.5 to 2.5	Pass
50	3.91	1.705	0.0022	-2.5 to 2.5	Pass					
64QAM	782	50	0	20	3.7	0.607	0.0008	-2.5 to 2.5	Pass	
					3.91	2.706	0.0035	-2.5 to 2.5	Pass	
					4.4	1.515	0.0019	-2.5 to 2.5	Pass	
				-30	3.91	0.407	0.0005	-2.5 to 2.5	Pass	
					-20	3.91	0.265	0.0003	-2.5 to 2.5	Pass
					-10	3.91	0.120	0.0002	-2.5 to 2.5	Pass
					0	3.91	0.901	0.0012	-2.5 to 2.5	Pass
					10	3.91	1.119	0.0014	-2.5 to 2.5	Pass
					30	3.91	1.198	0.0015	-2.5 to 2.5	Pass
					40	3.91	1.679	0.0021	-2.5 to 2.5	Pass
50	3.91	1.325	0.0017	-2.5 to 2.5	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	4.556	/	Pass
		782	25	0	4.613	/	Pass
		784.5	25	0	4.575	/	Pass
	16QAM	779.5	25	0	4.552	/	Pass
		782	25	0	4.572	/	Pass
		784.5	25	0	4.581	/	Pass
	64QAM	779.5	25	0	4.578	/	Pass
		782	25	0	4.578	/	Pass
		784.5	25	0	4.591	/	Pass
10	QPSK	782	50	0	9.089	/	Pass
	16QAM	782	50	0	9.082	/	Pass
	64QAM	782	50	0	9.092	/	Pass



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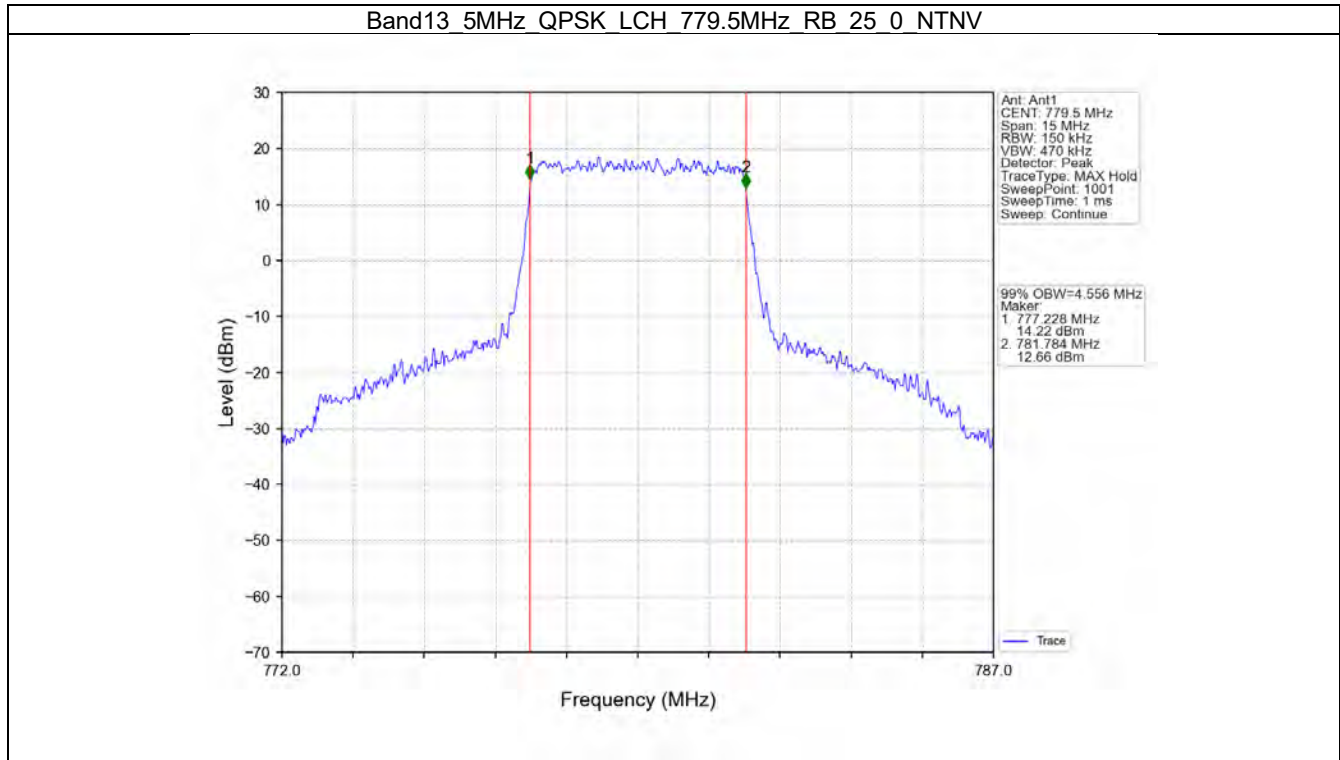
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3.1.2 Test Graph



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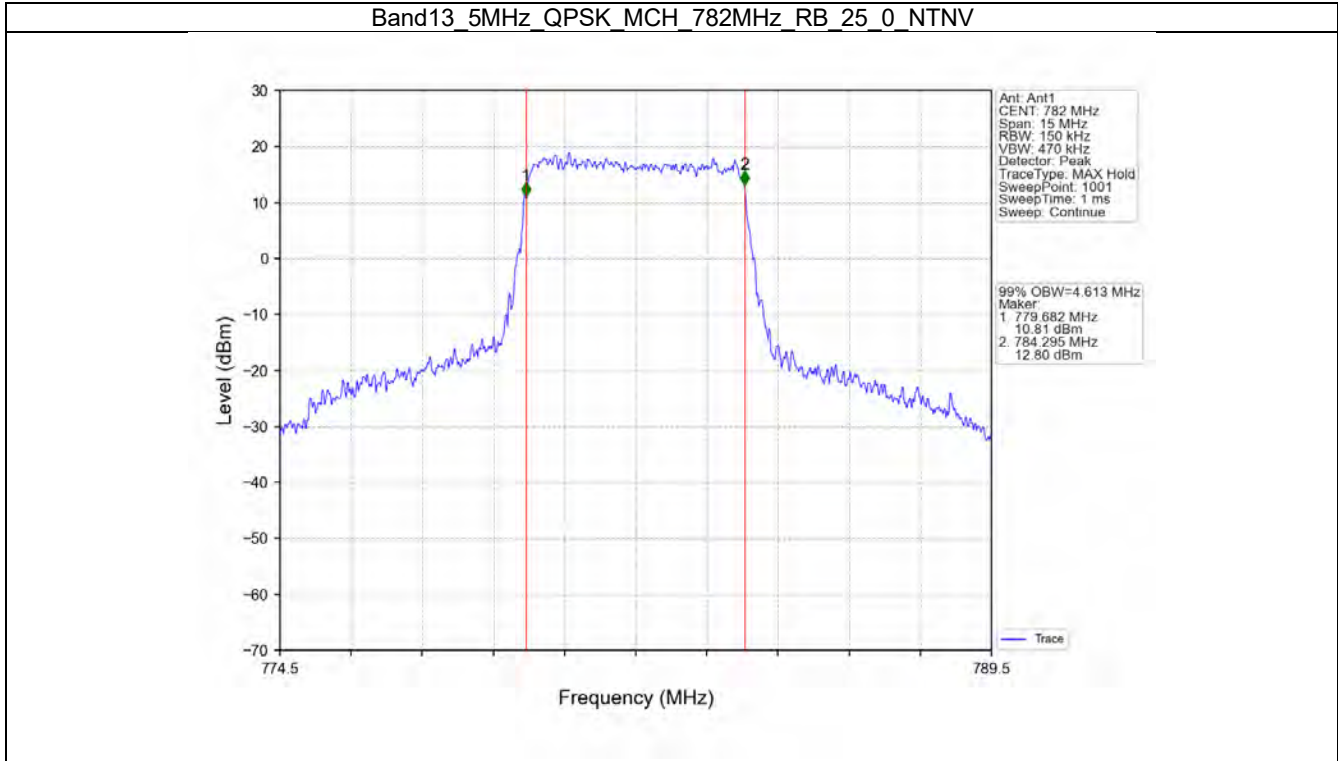


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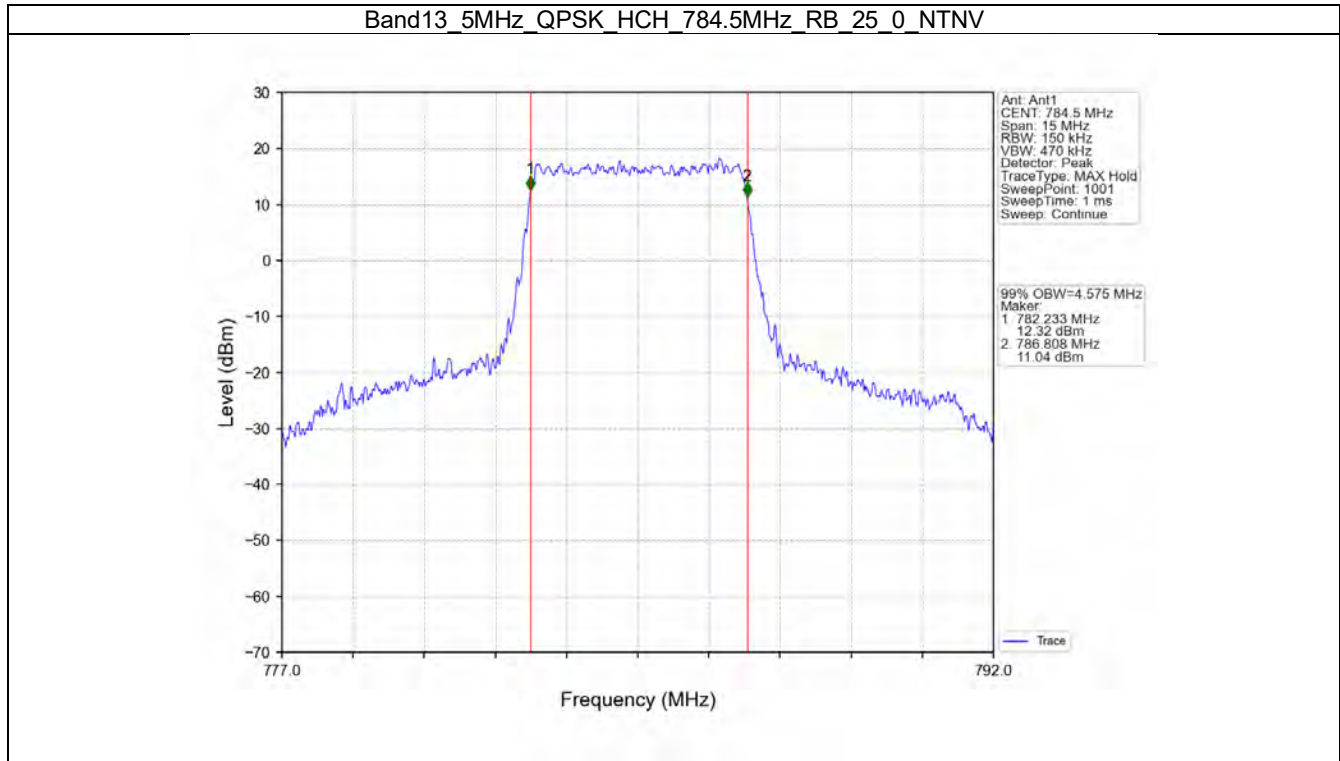


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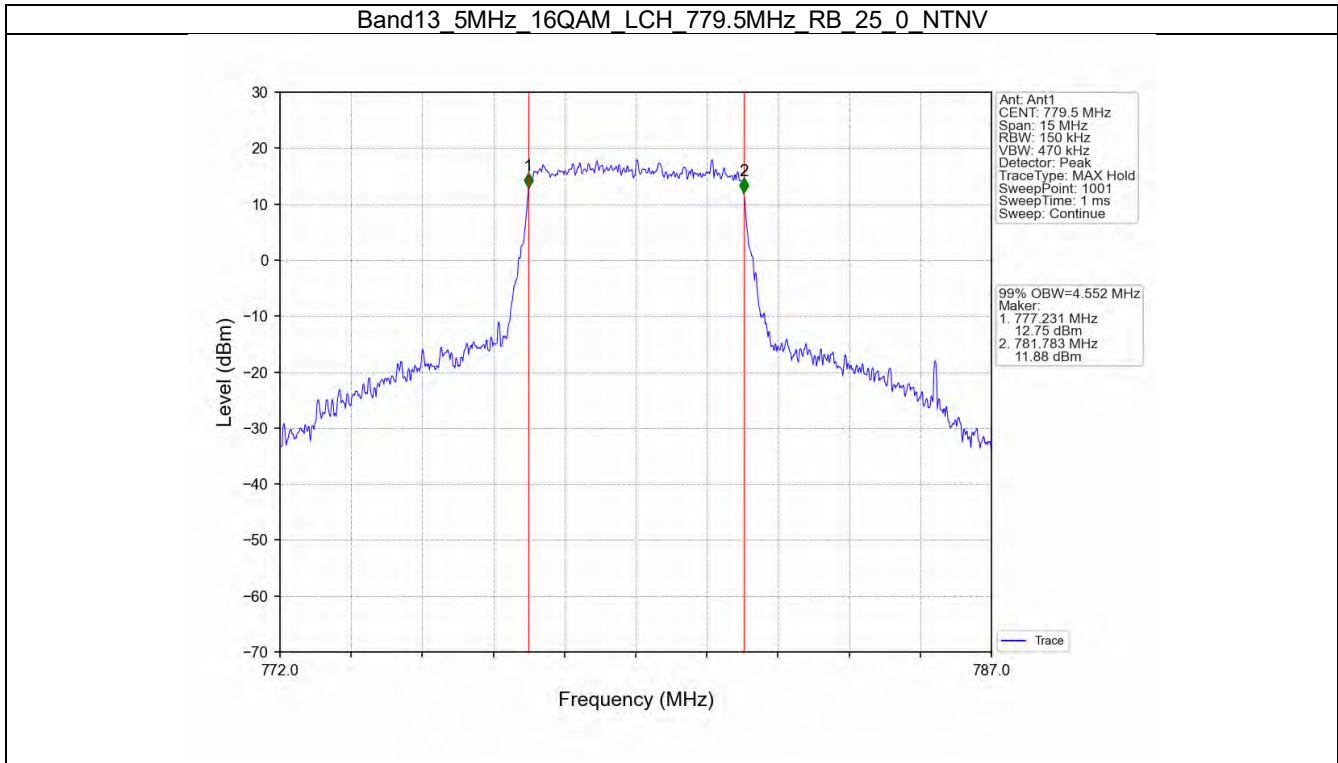


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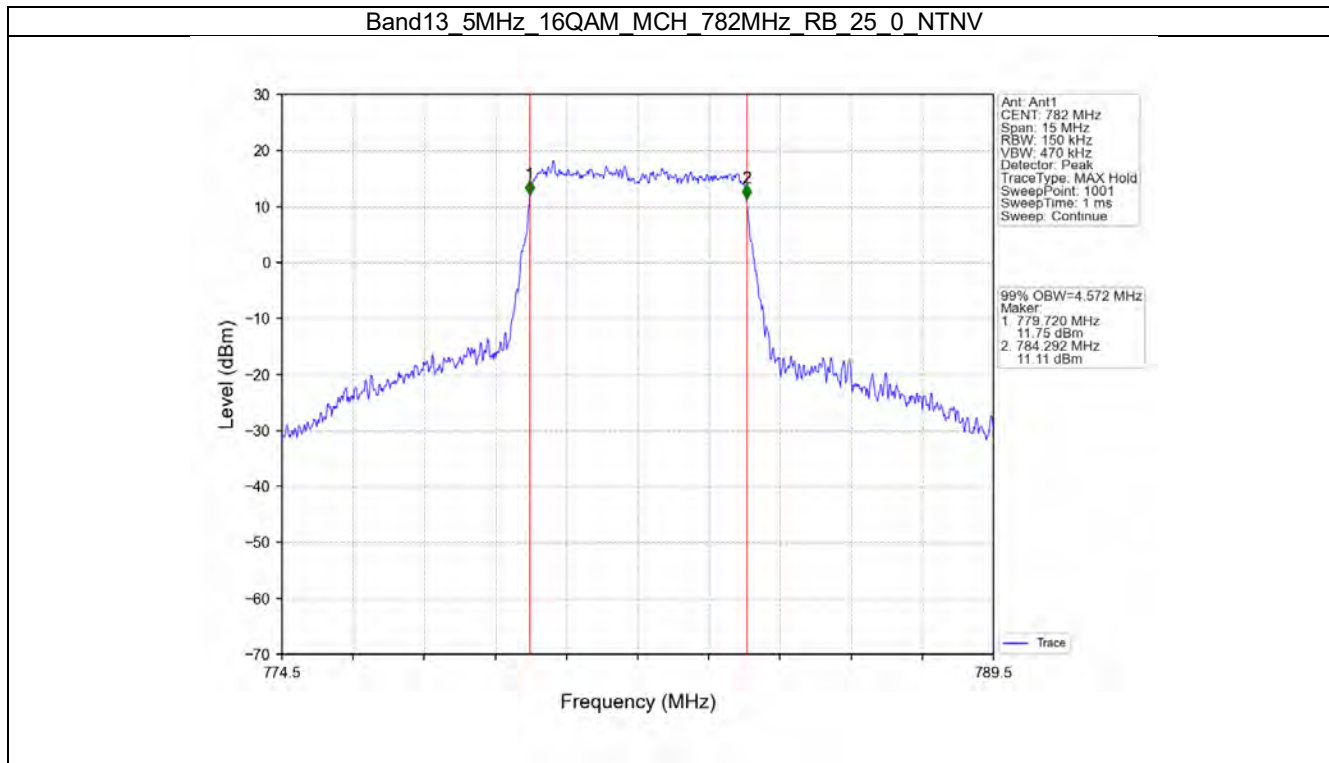
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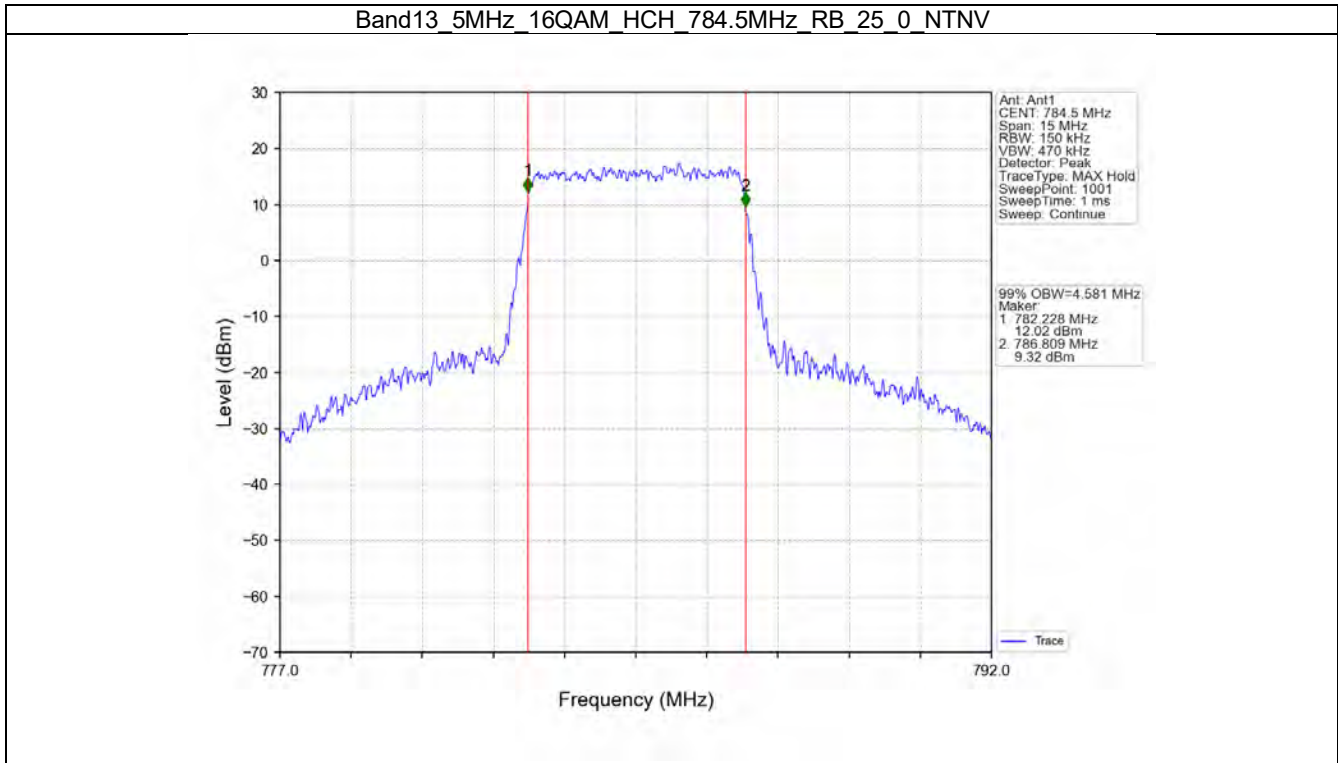


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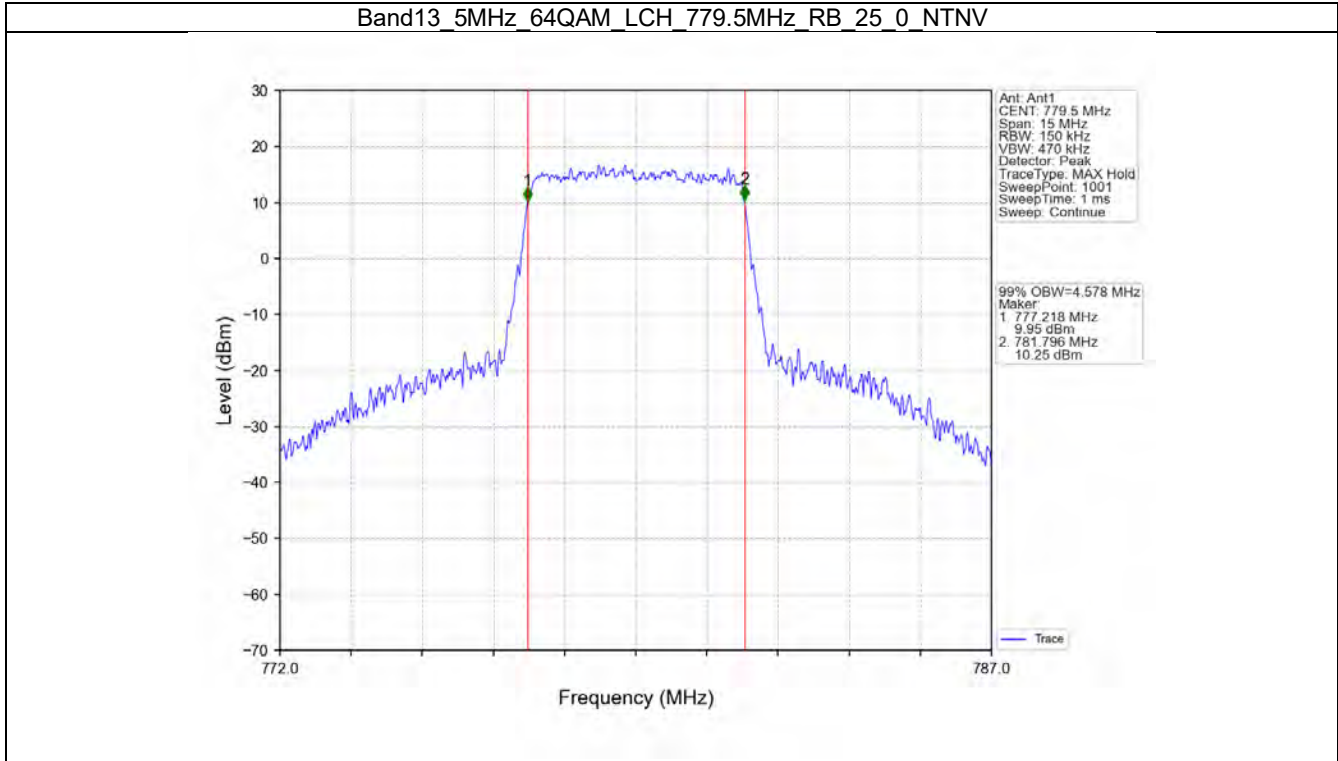


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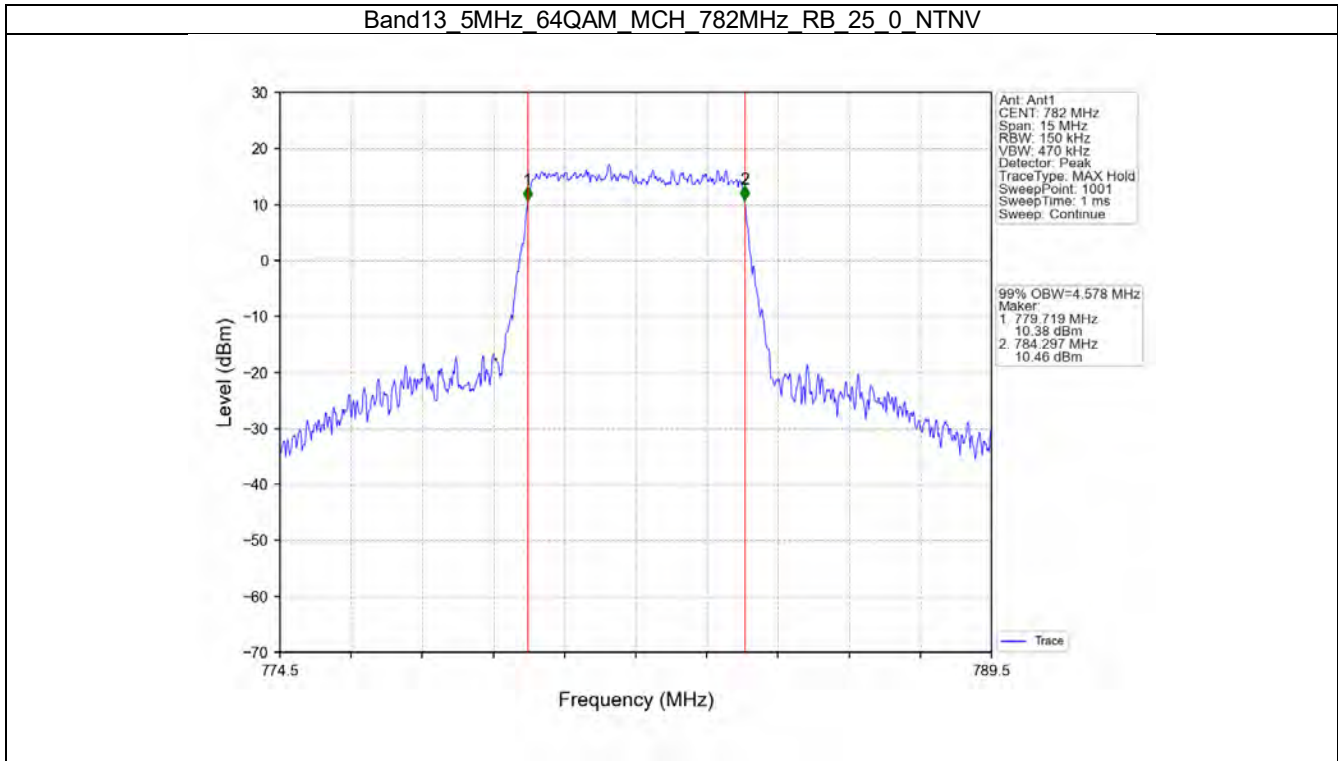


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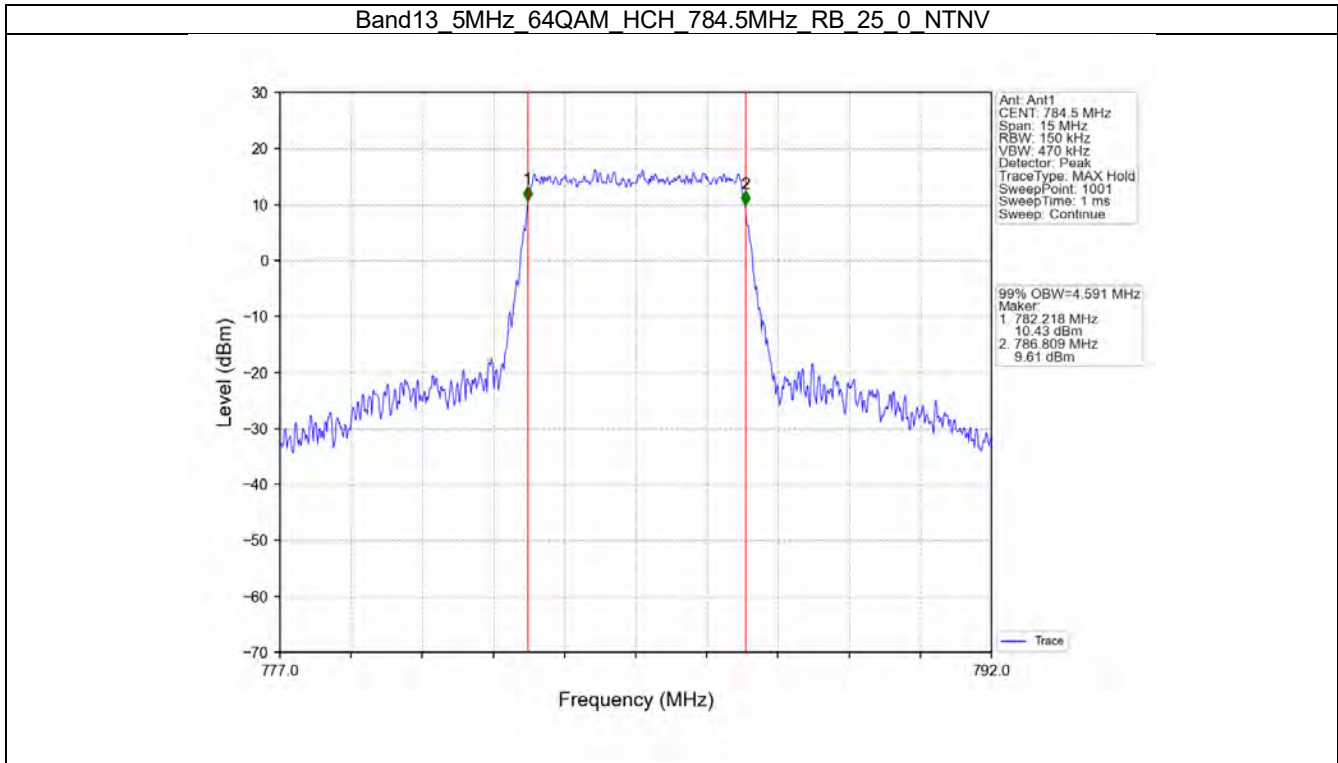


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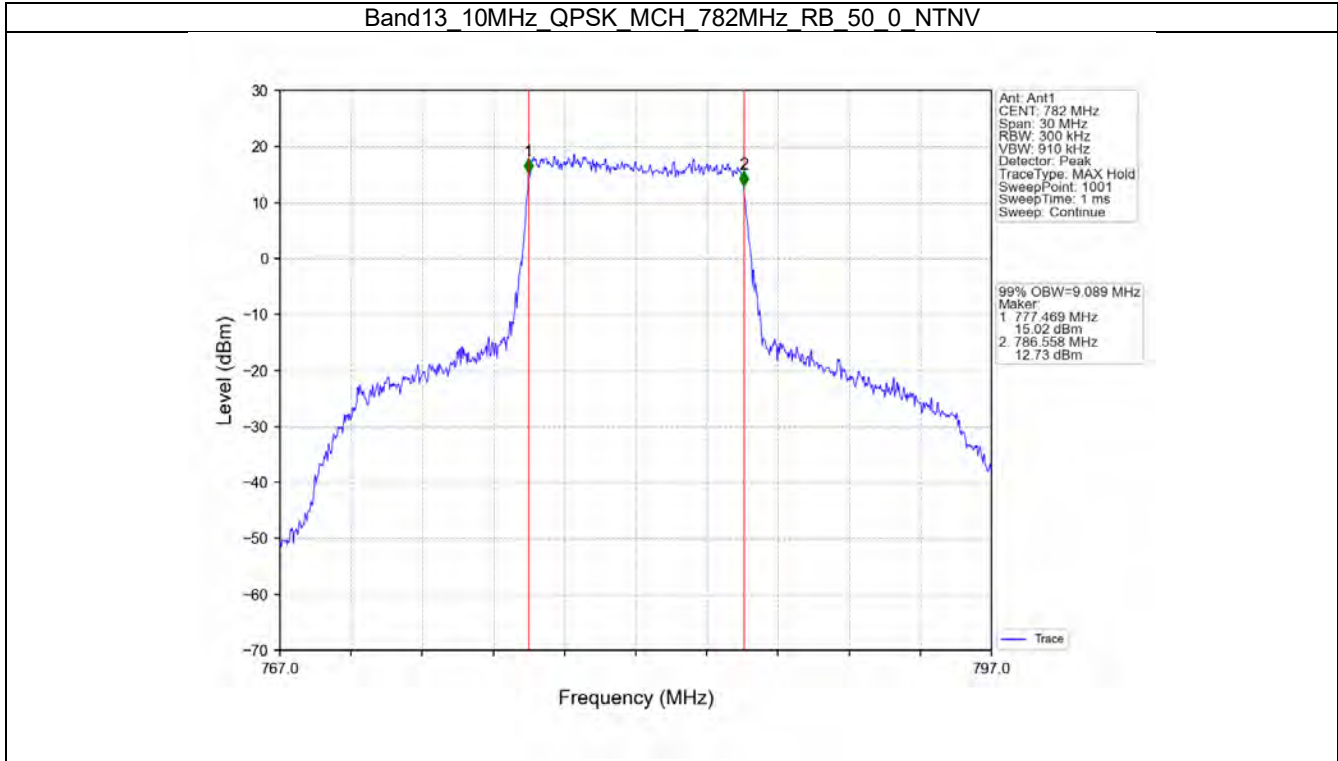


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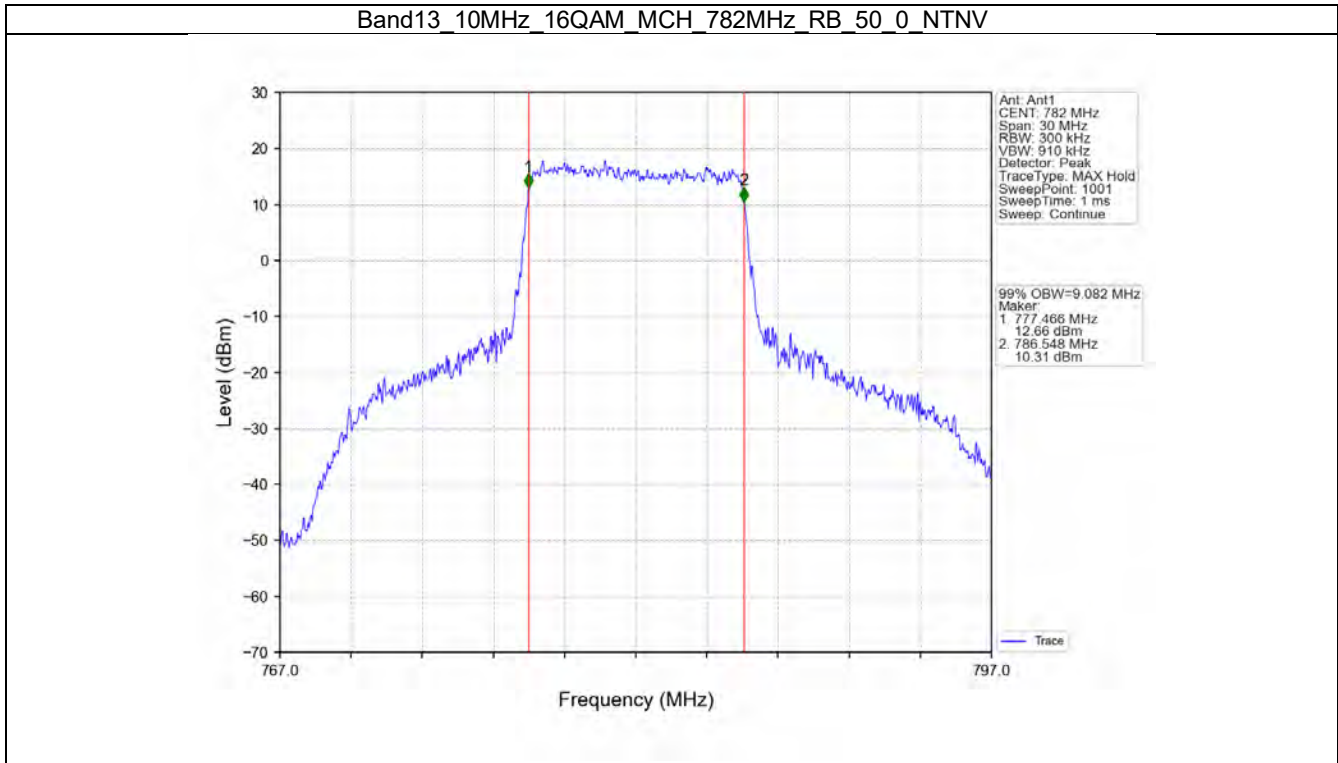


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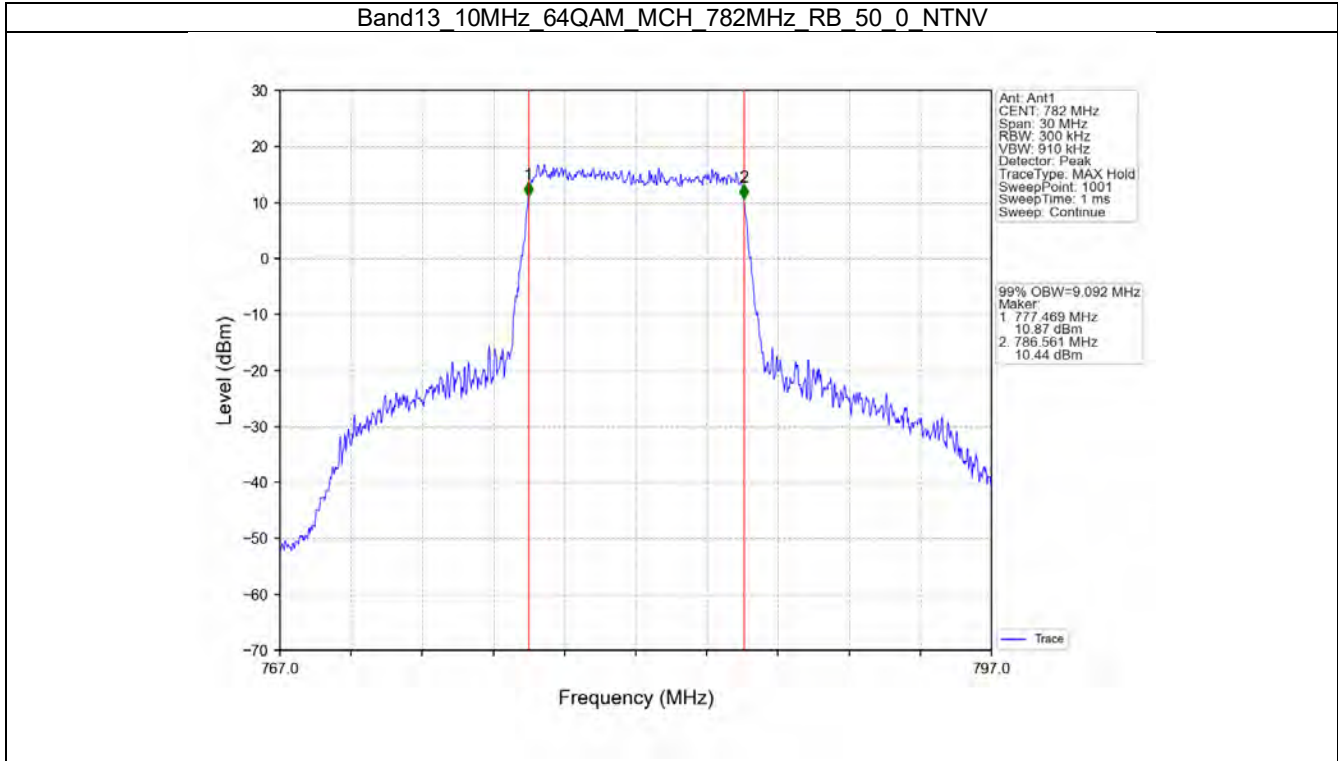


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3.2 Band13_XDB

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	5.185	/	Pass
		782	25	0	5.262	/	Pass
		784.5	25	0	5.248	/	Pass
	16QAM	779.5	25	0	5.215	/	Pass
		782	25	0	5.233	/	Pass
		784.5	25	0	5.306	/	Pass
	64QAM	779.5	25	0	5.285	/	Pass
		782	25	0	5.255	/	Pass
		784.5	25	0	5.309	/	Pass
10	QPSK	782	50	0	10.223	/	Pass
	16QAM	782	50	0	10.153	/	Pass
	64QAM	782	50	0	10.170	/	Pass



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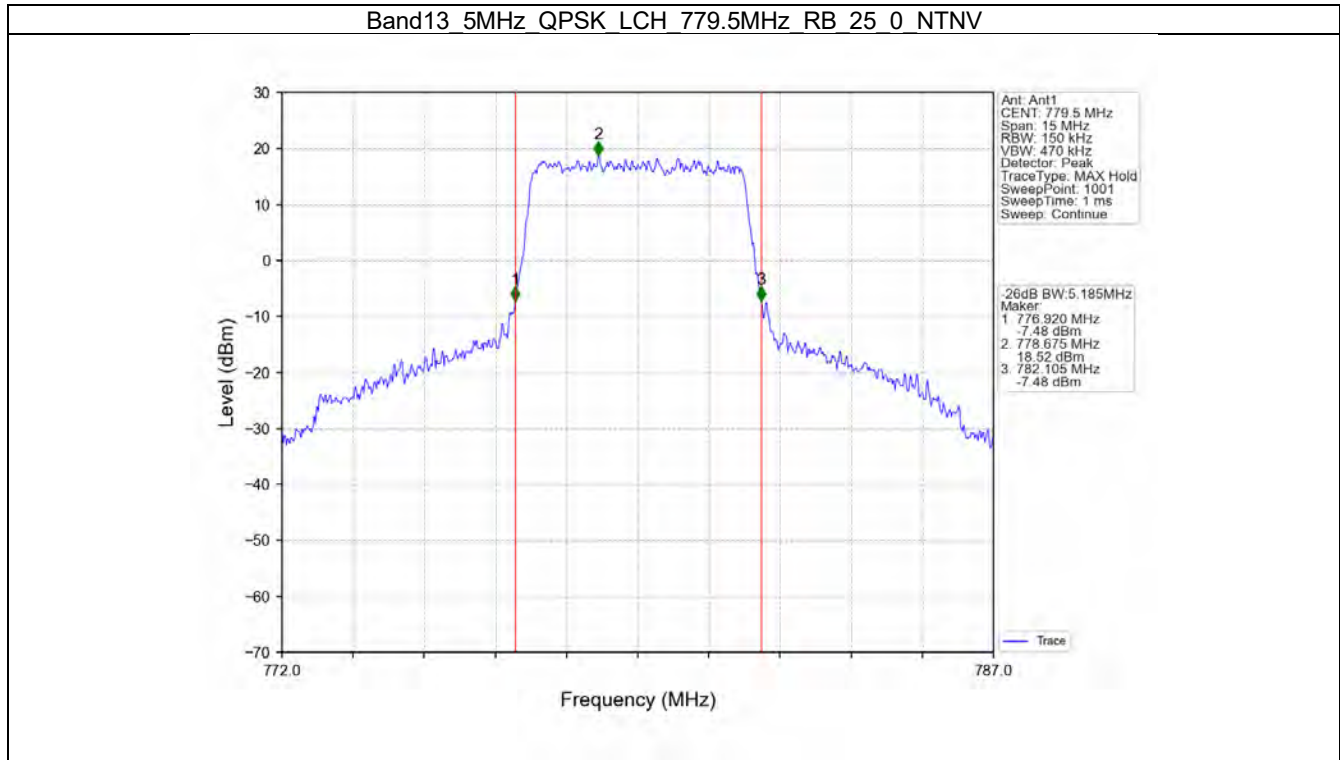
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3.2.2 Test Graph



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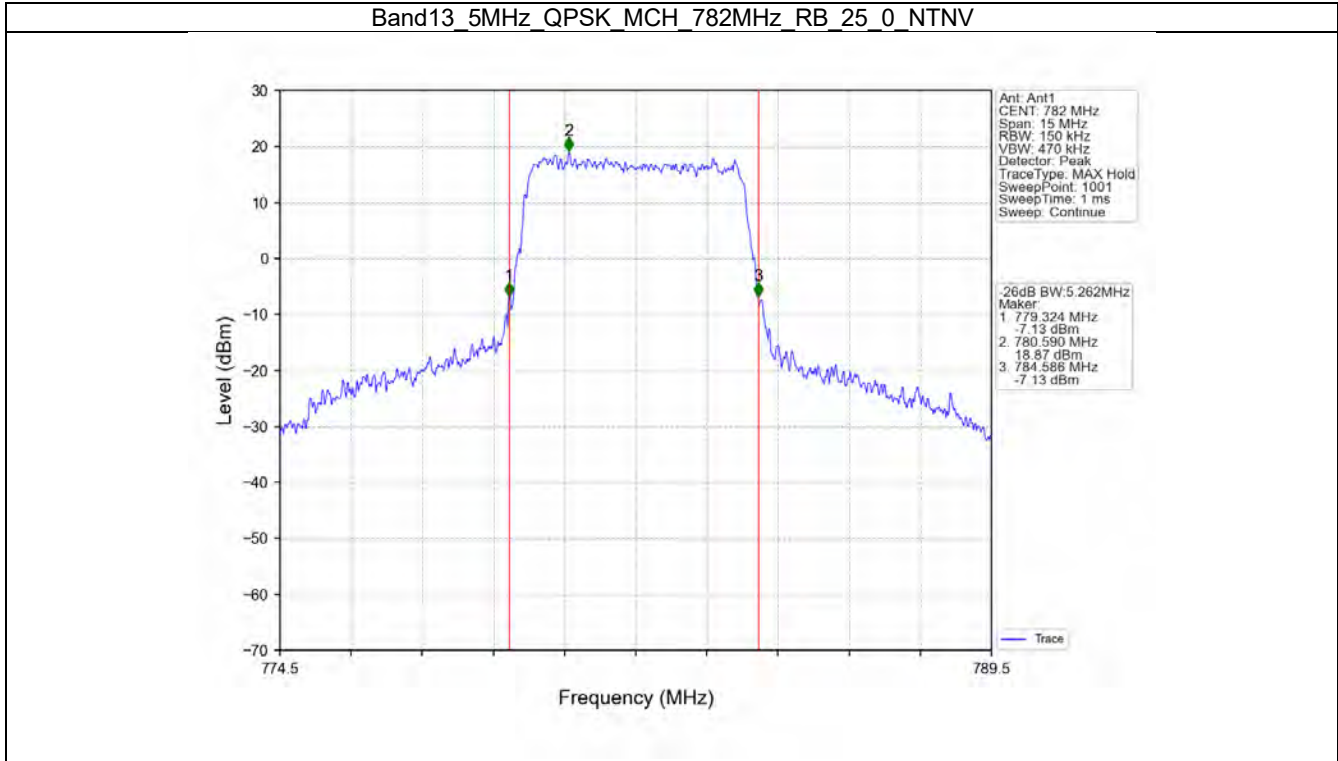


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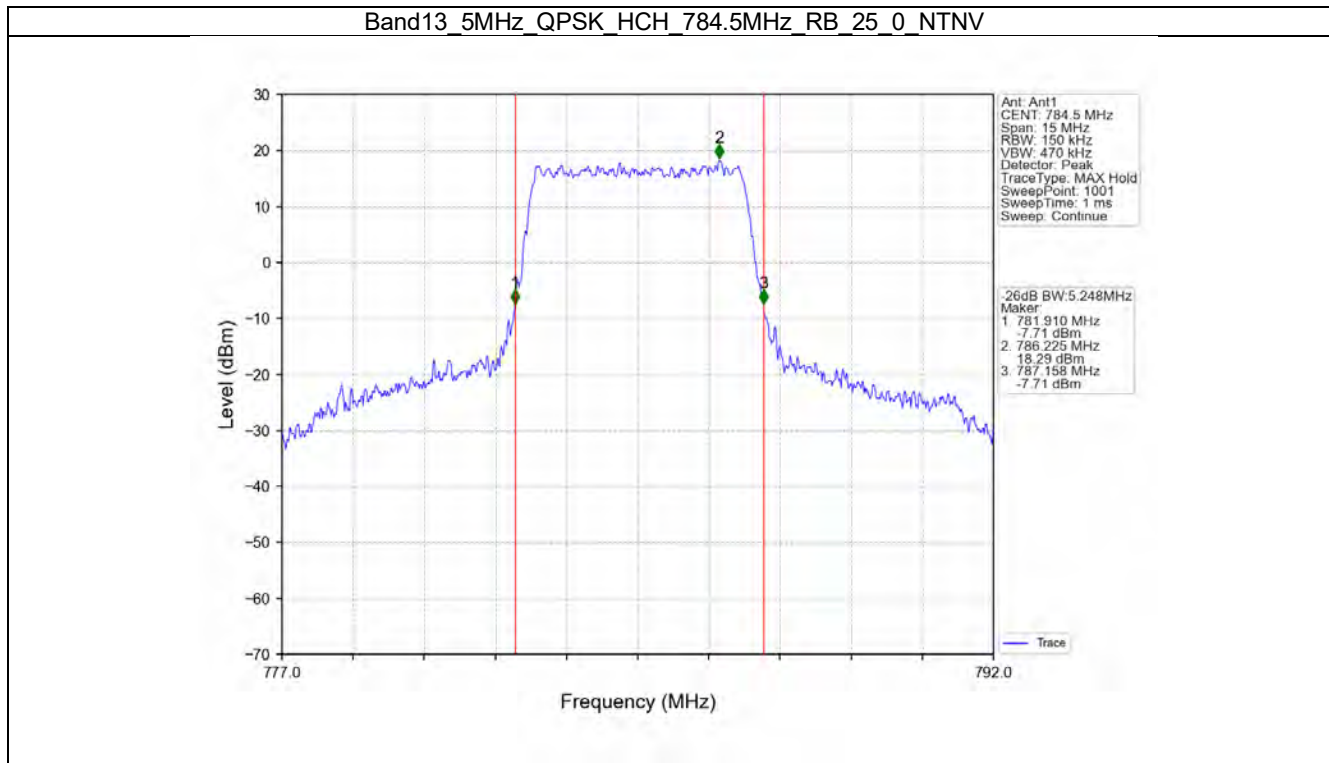
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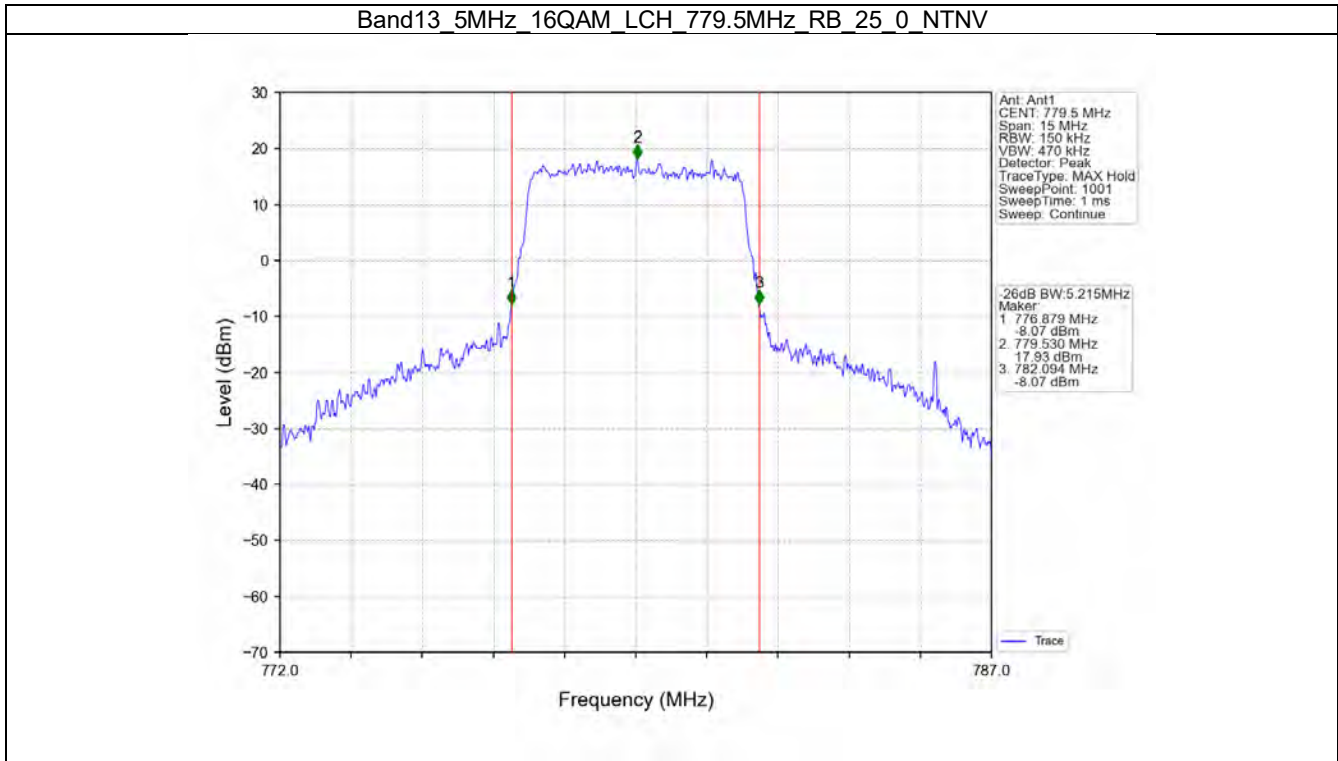


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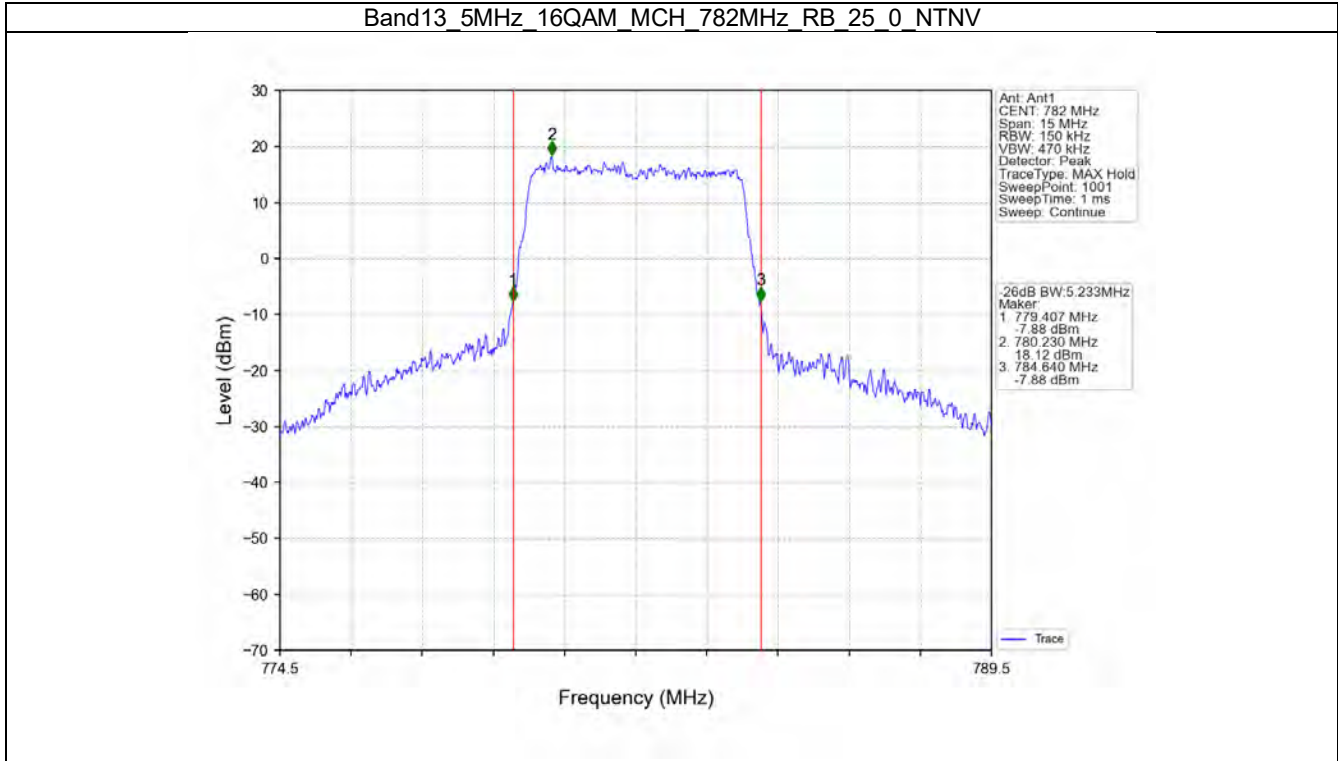


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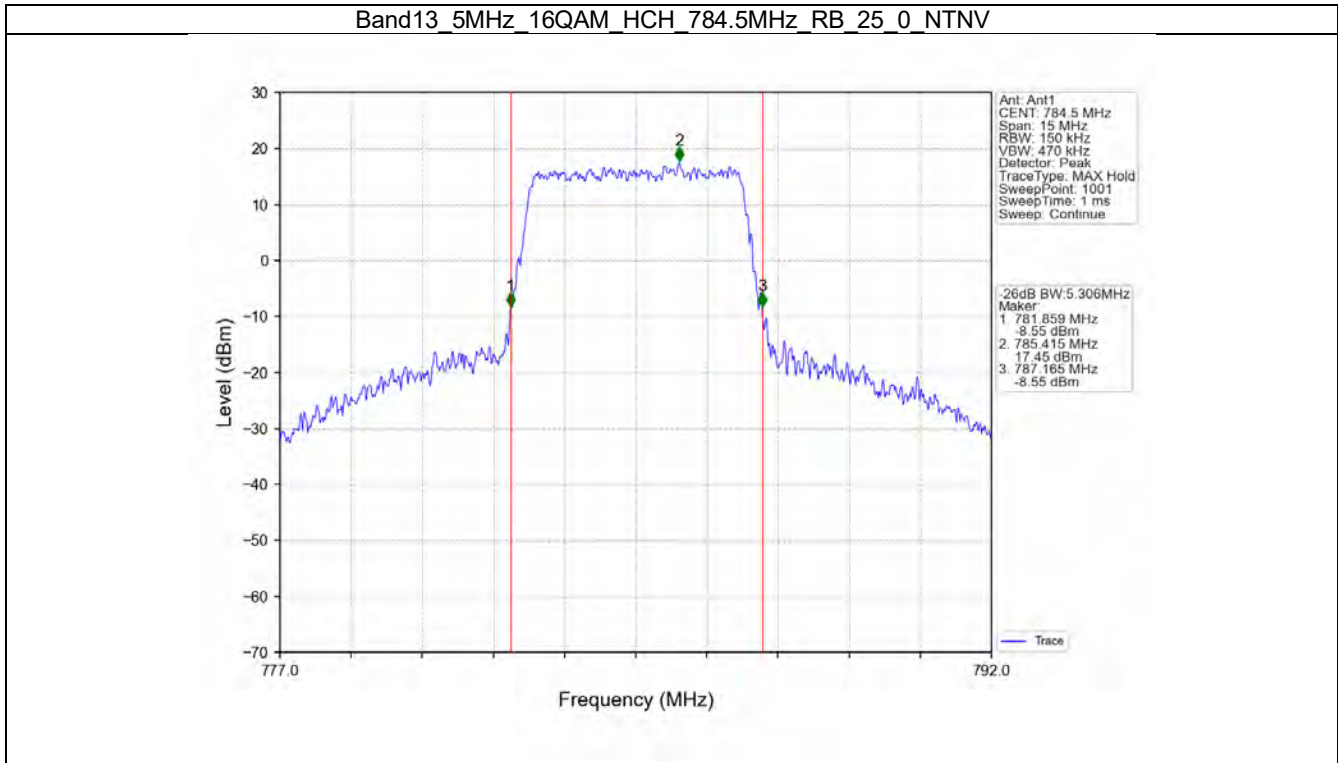


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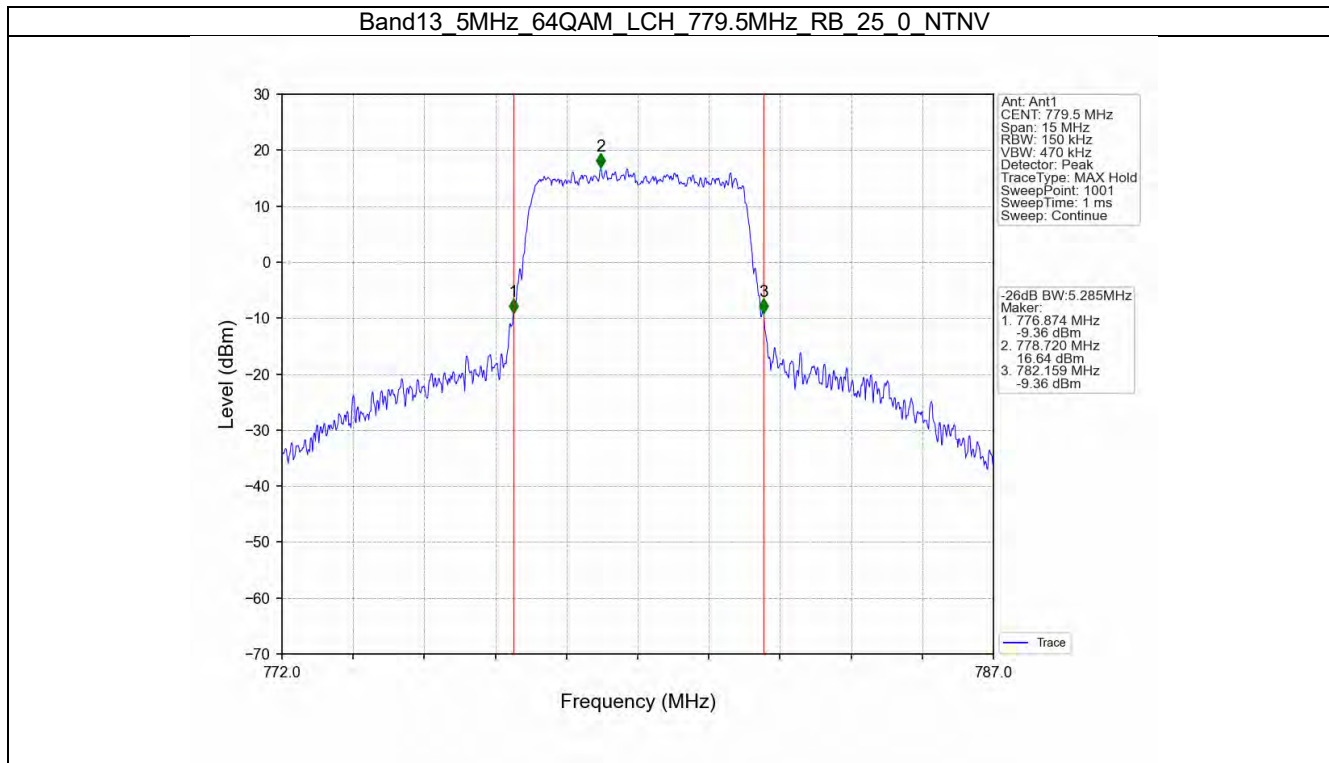
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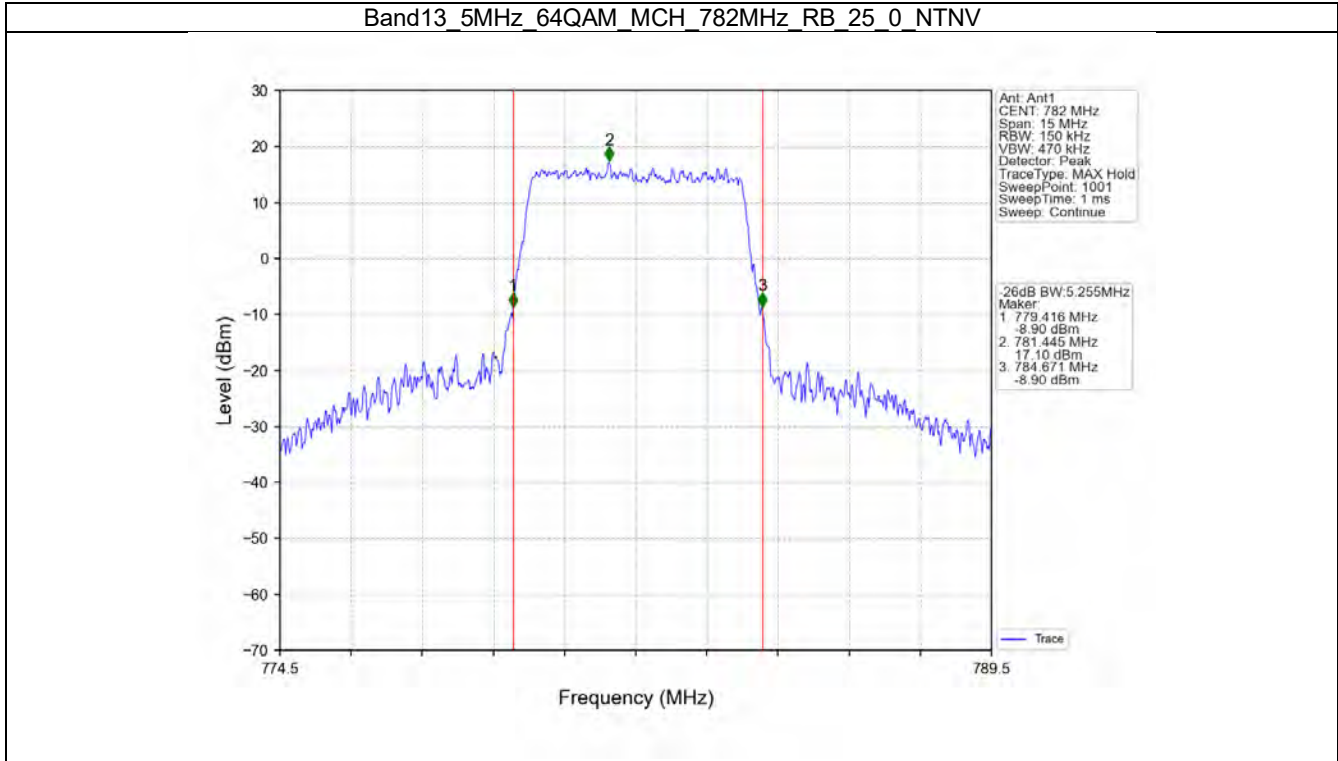


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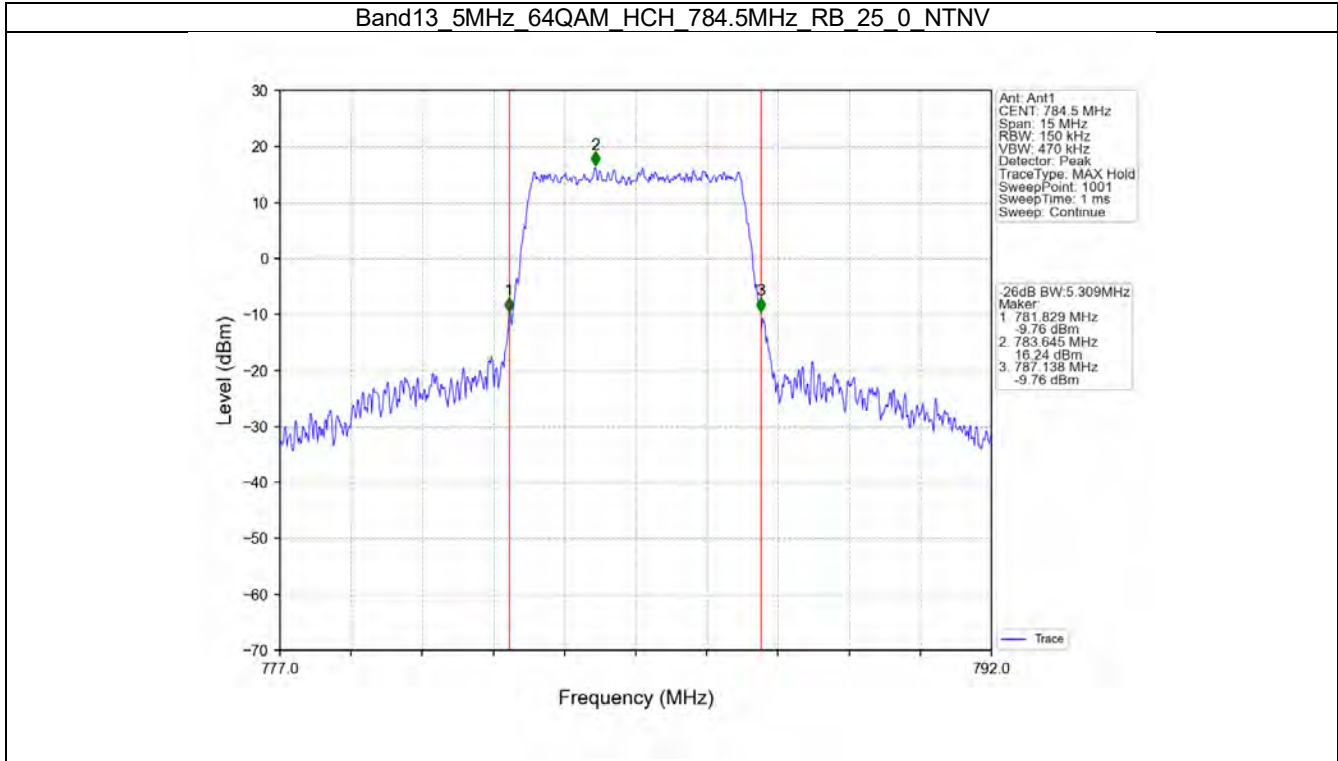


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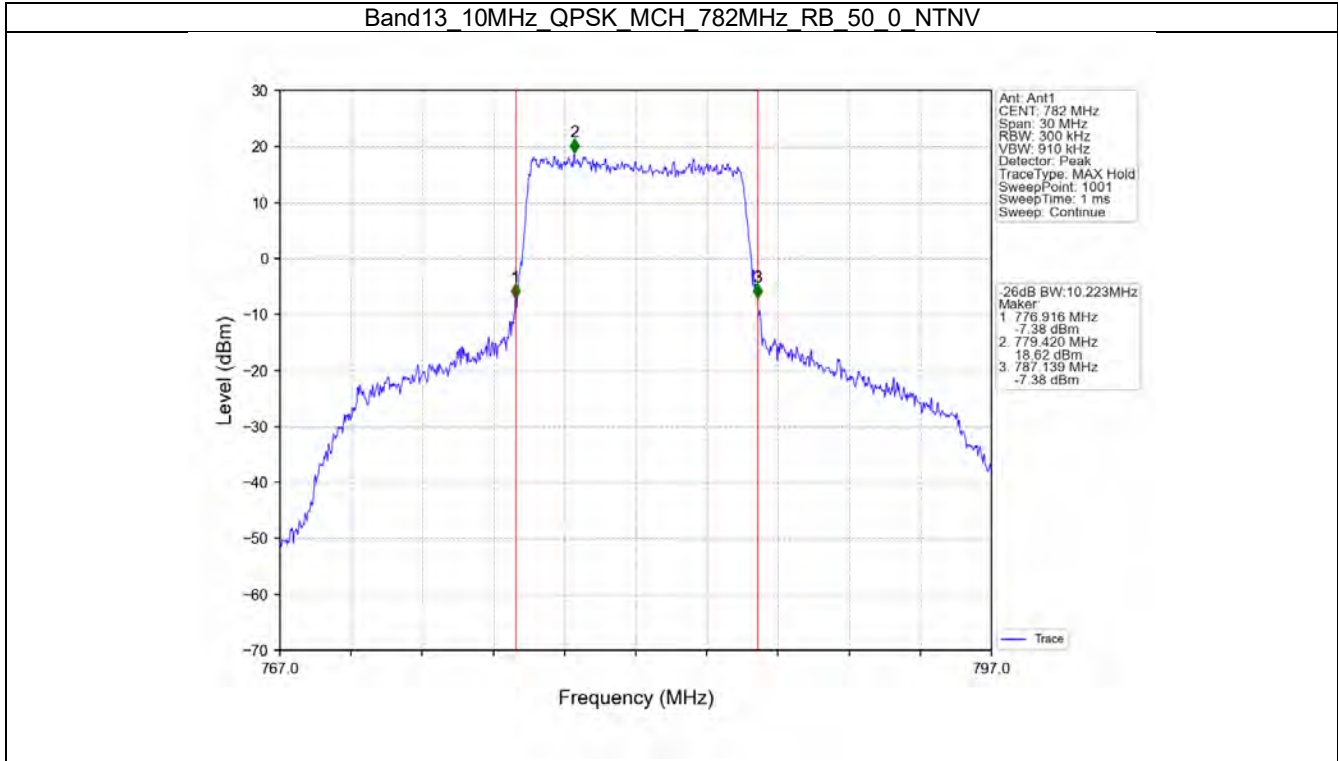


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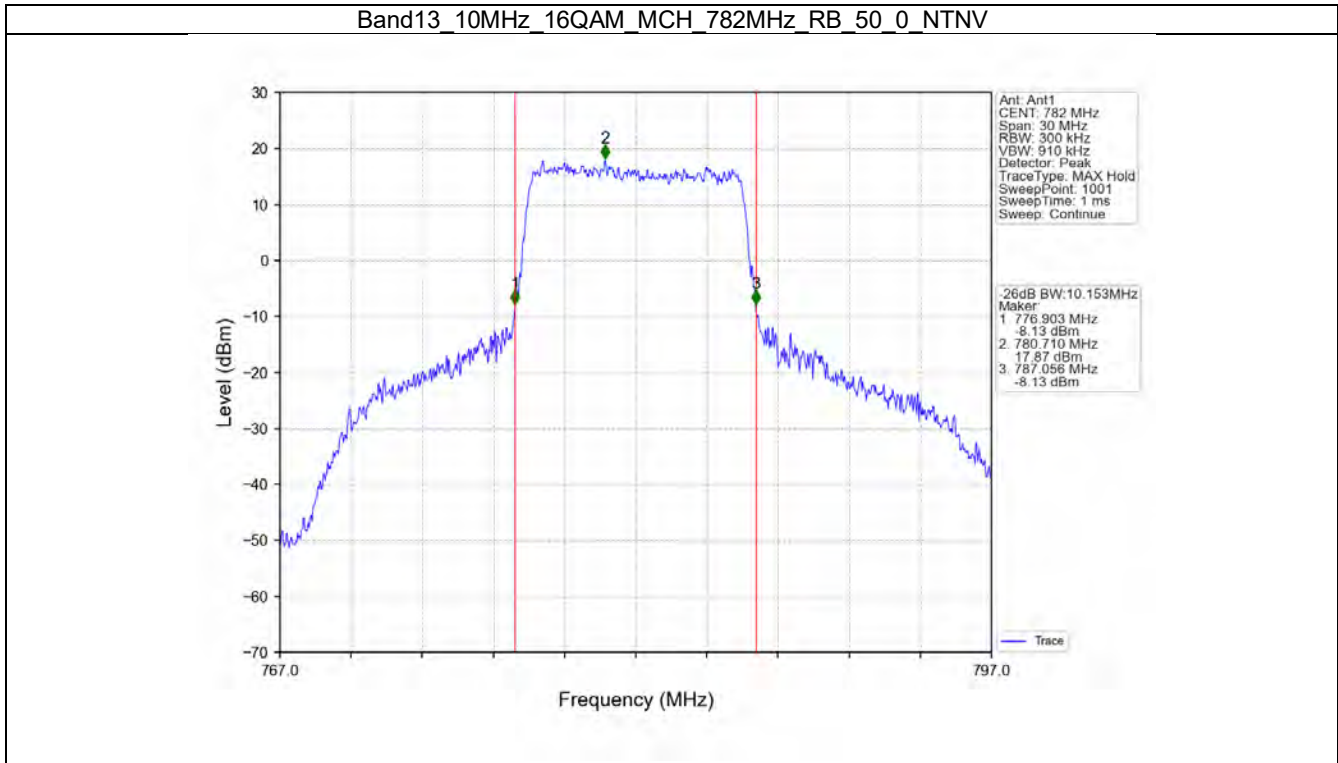


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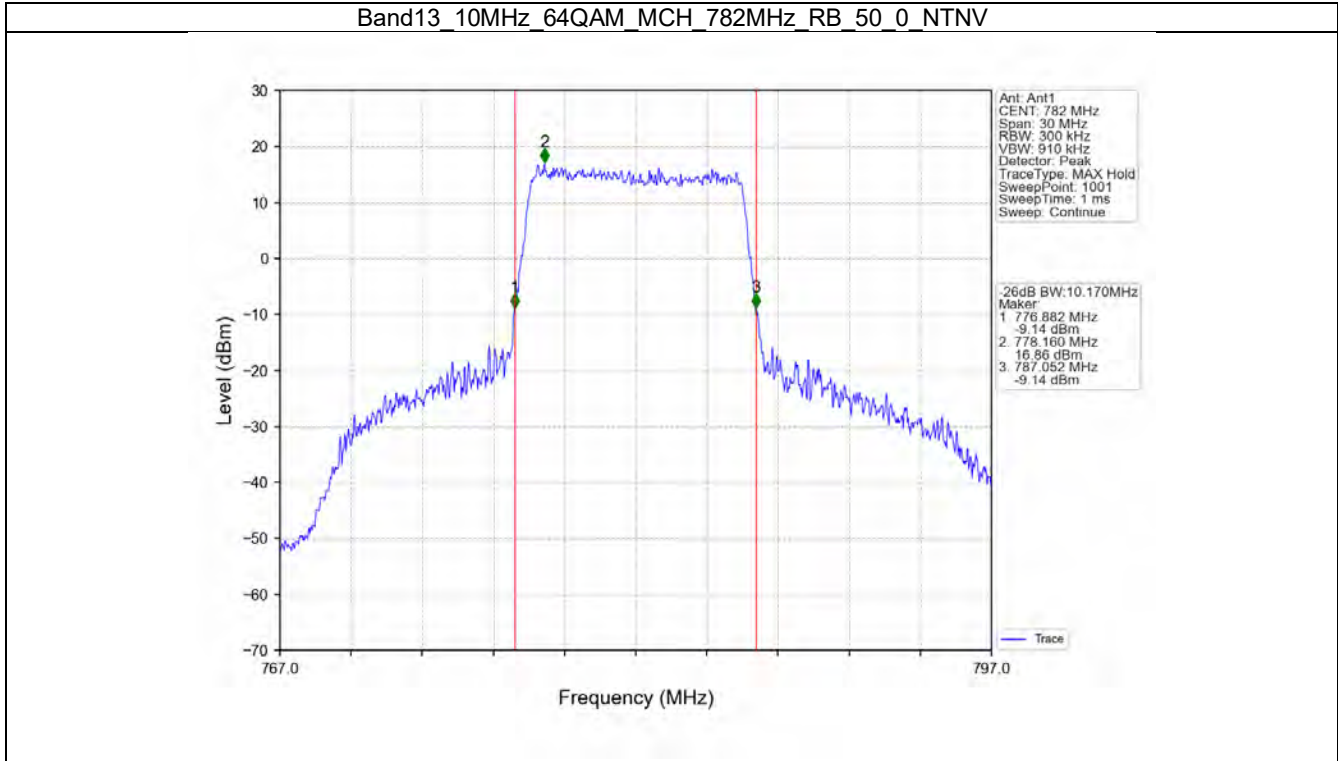


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4. Peak-Average Ratio

4.1 B13_5MHz

4.1.1 Test Result

Band: 13 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	779.5	25	0	4.98	<=13	Pass
	782	25	0	5.29	<=13	Pass
	784.5	25	0	5.37	<=13	Pass
16QAM	779.5	25	0	5.75	<=13	Pass
	782	25	0	6.12	<=13	Pass
	784.5	25	0	6.17	<=13	Pass
64QAM	779.5	25	0	6.14	<=13	Pass
	782	25	0	6.41	<=13	Pass
	784.5	25	0	6.49	<=13	Pass



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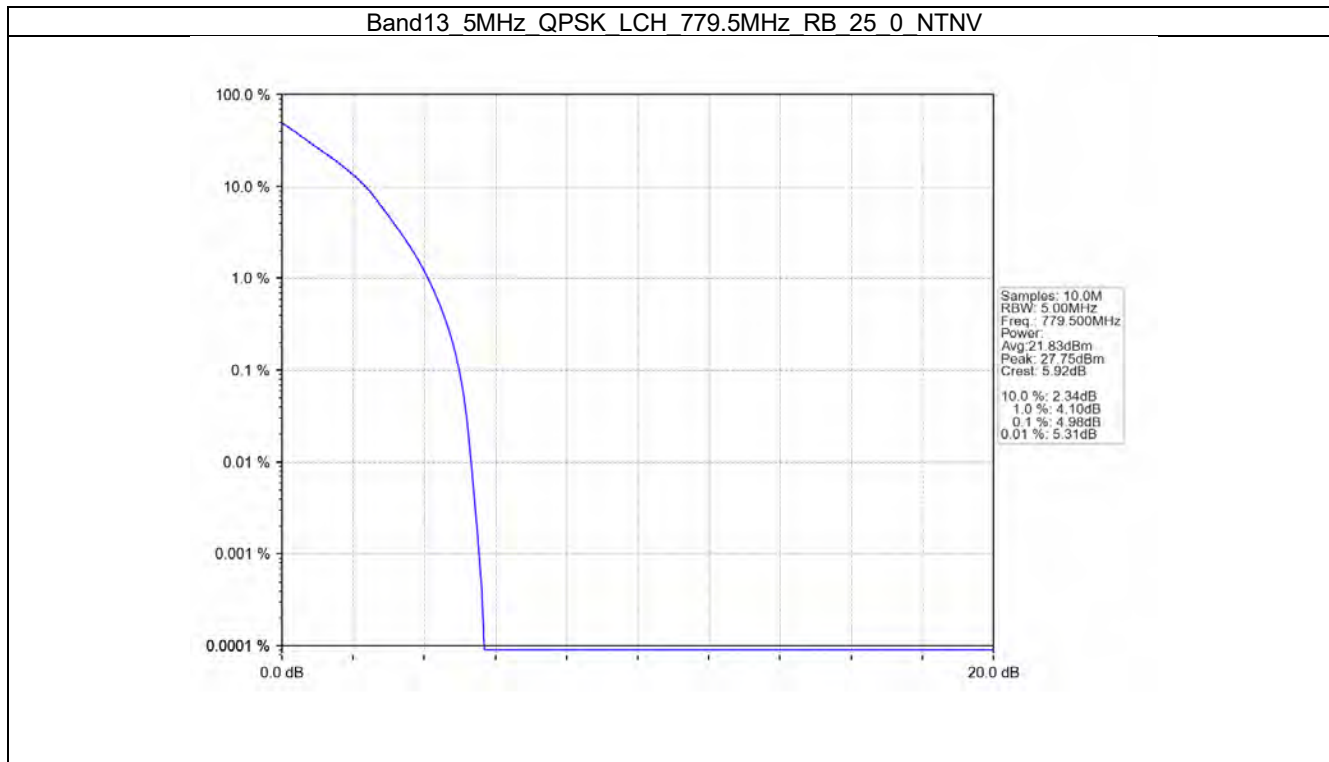
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4.1.2 Test Graph



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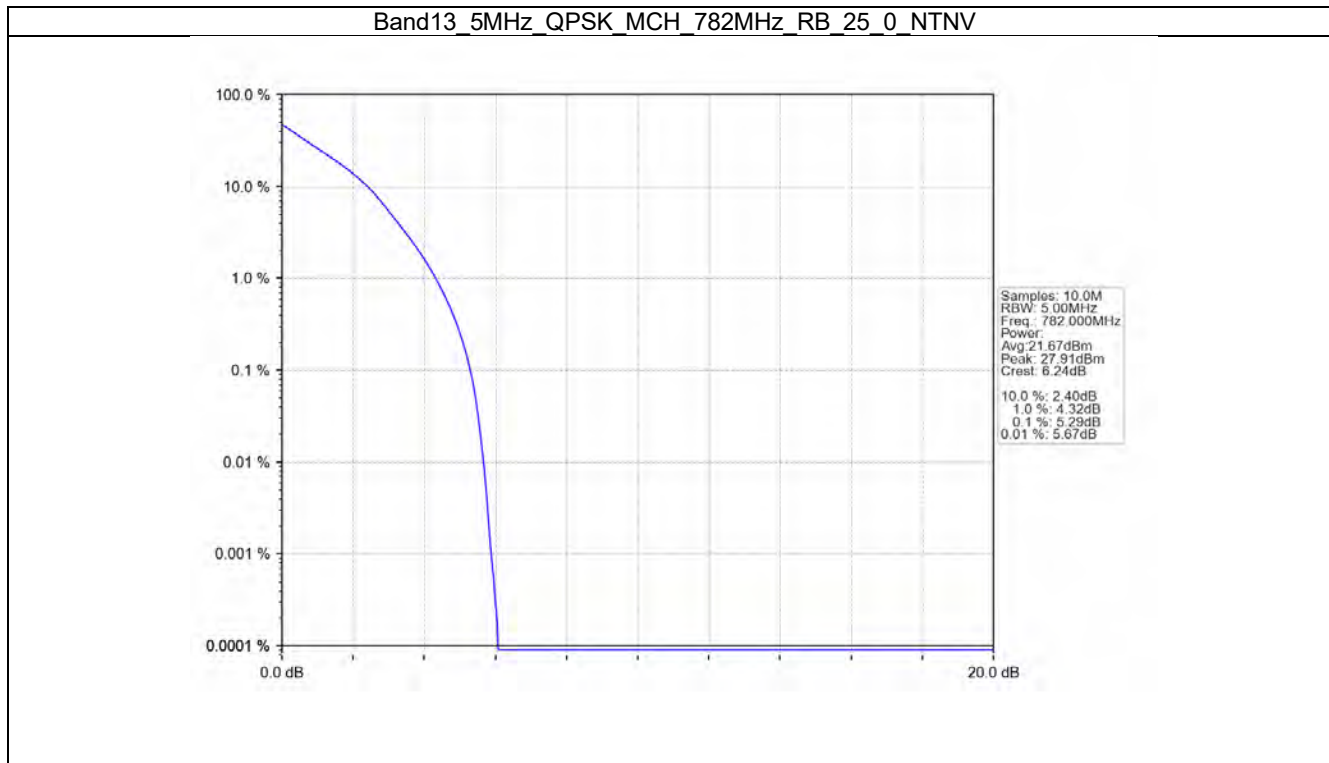
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Band13_5MHz_QPSK_MCH_782MHz_RB_25_0_NTNV



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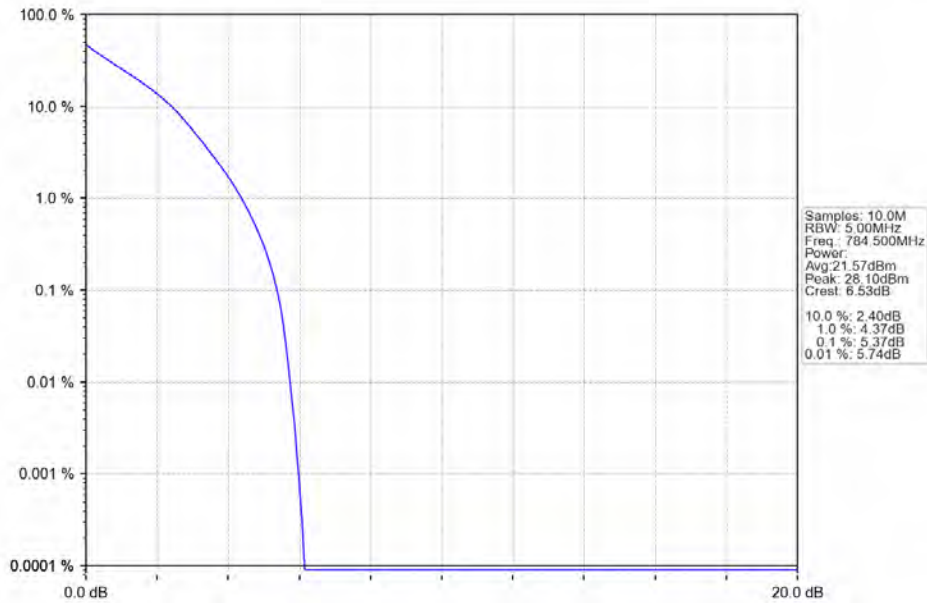
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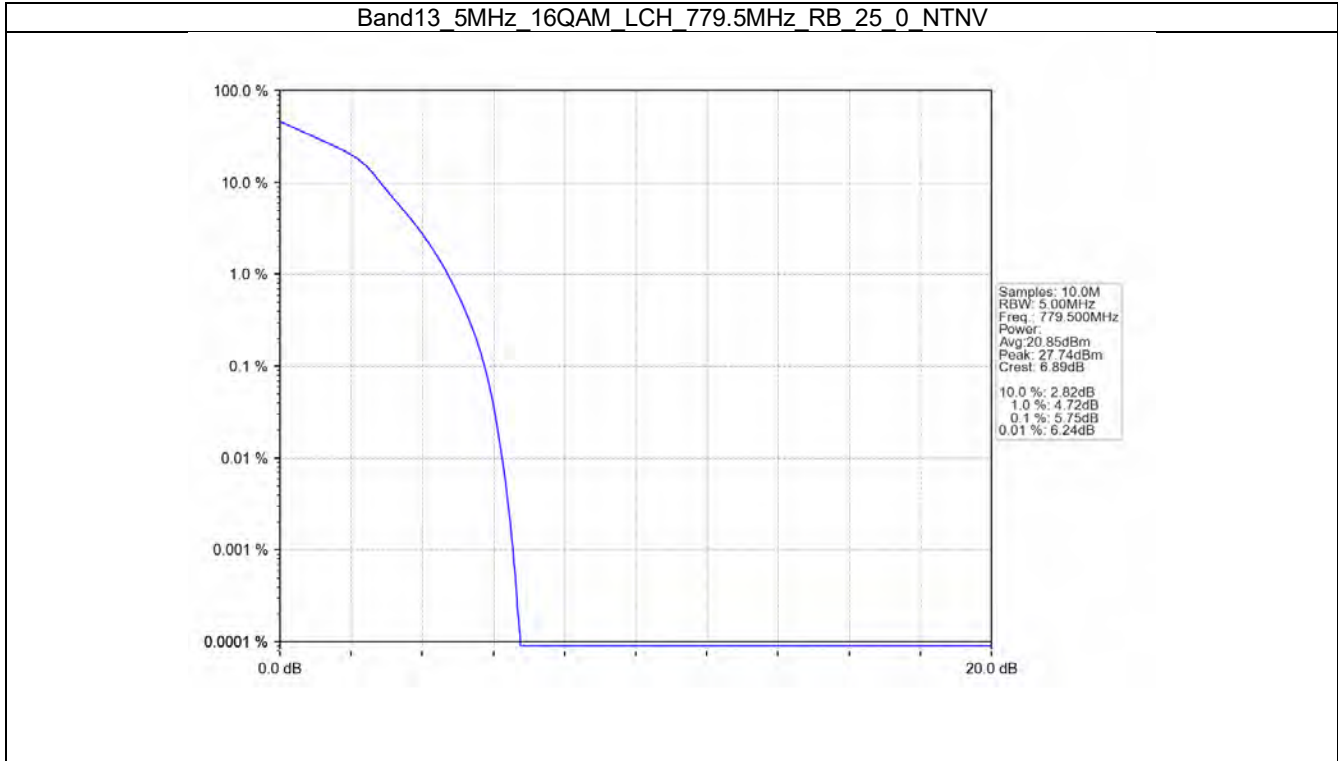


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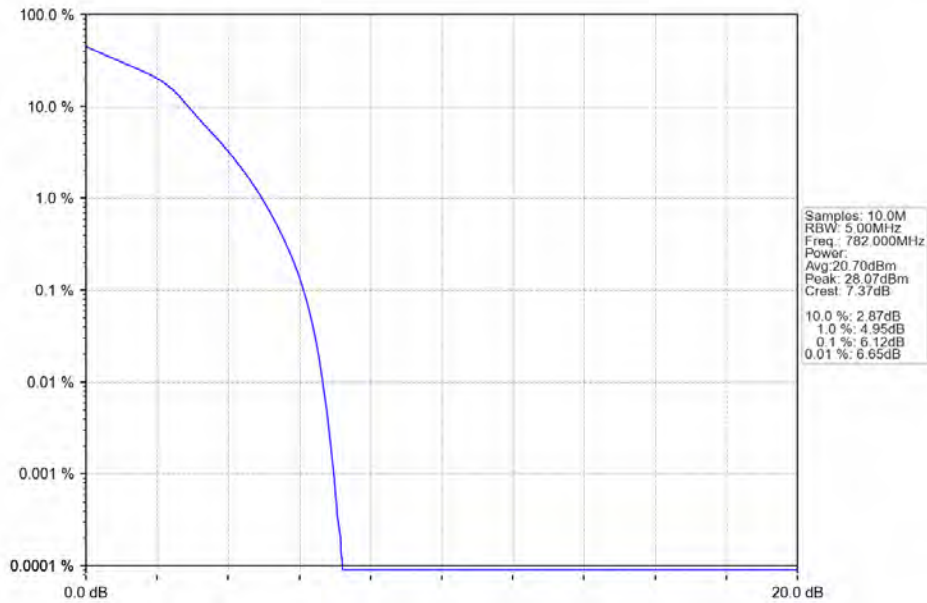
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Band13_5MHz_16QAM_MCH_782MHz_RB_25_0_NTNV



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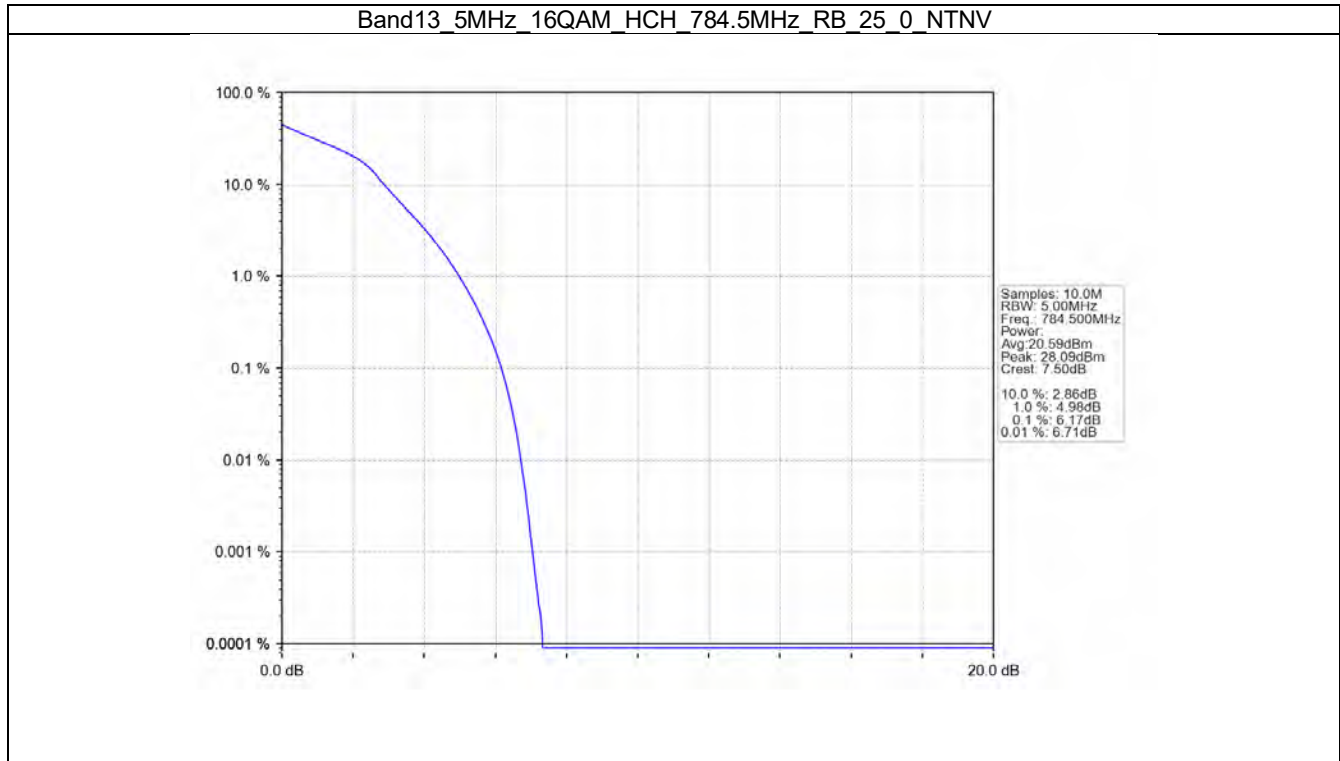


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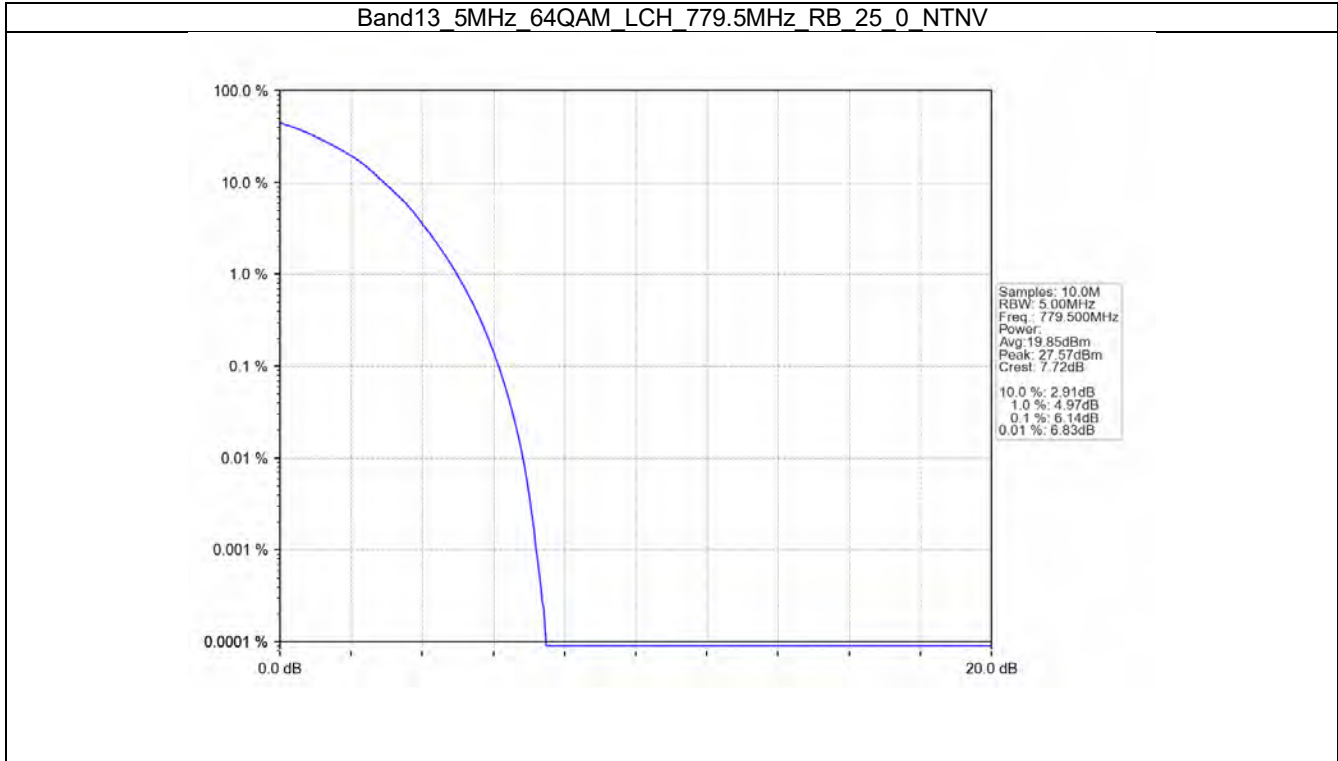


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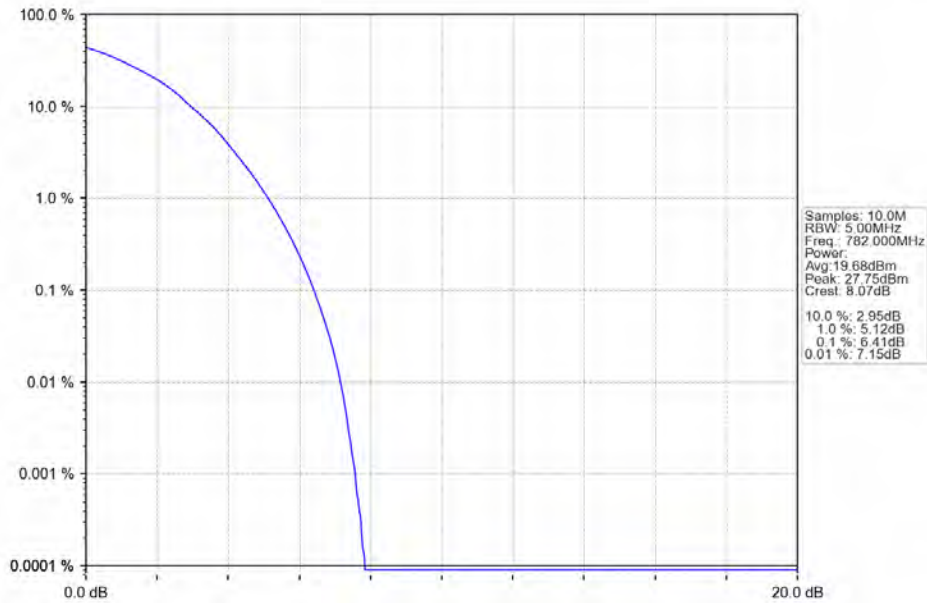
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Band13_5MHz_64QAM_MCH_782MHz_RB_25_0_NTNV



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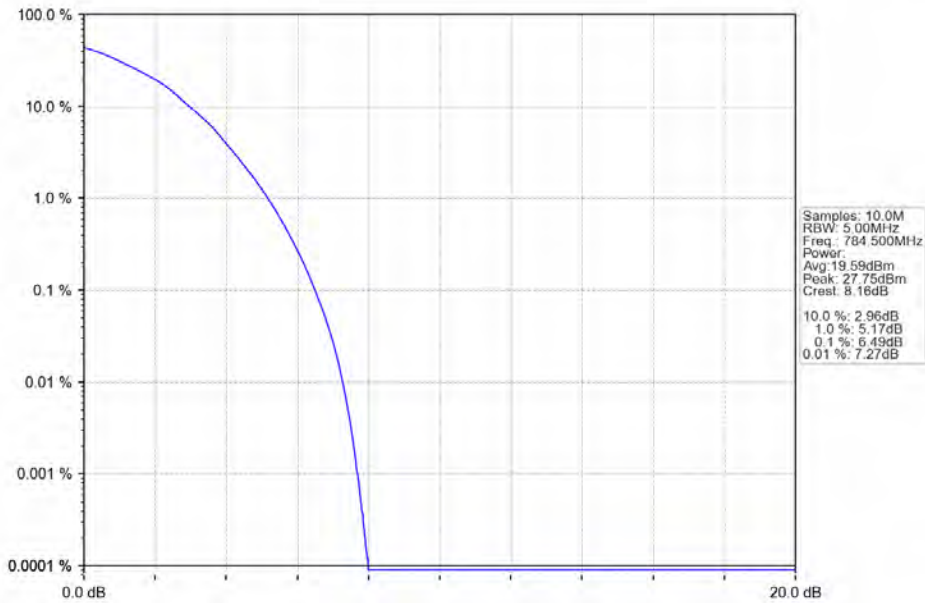
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4.2 B13_10MHz

4.2.1 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	5.22	<=13	Pass
16QAM	782	50	0	5.96	<=13	Pass
64QAM	782	50	0	6.34	<=13	Pass



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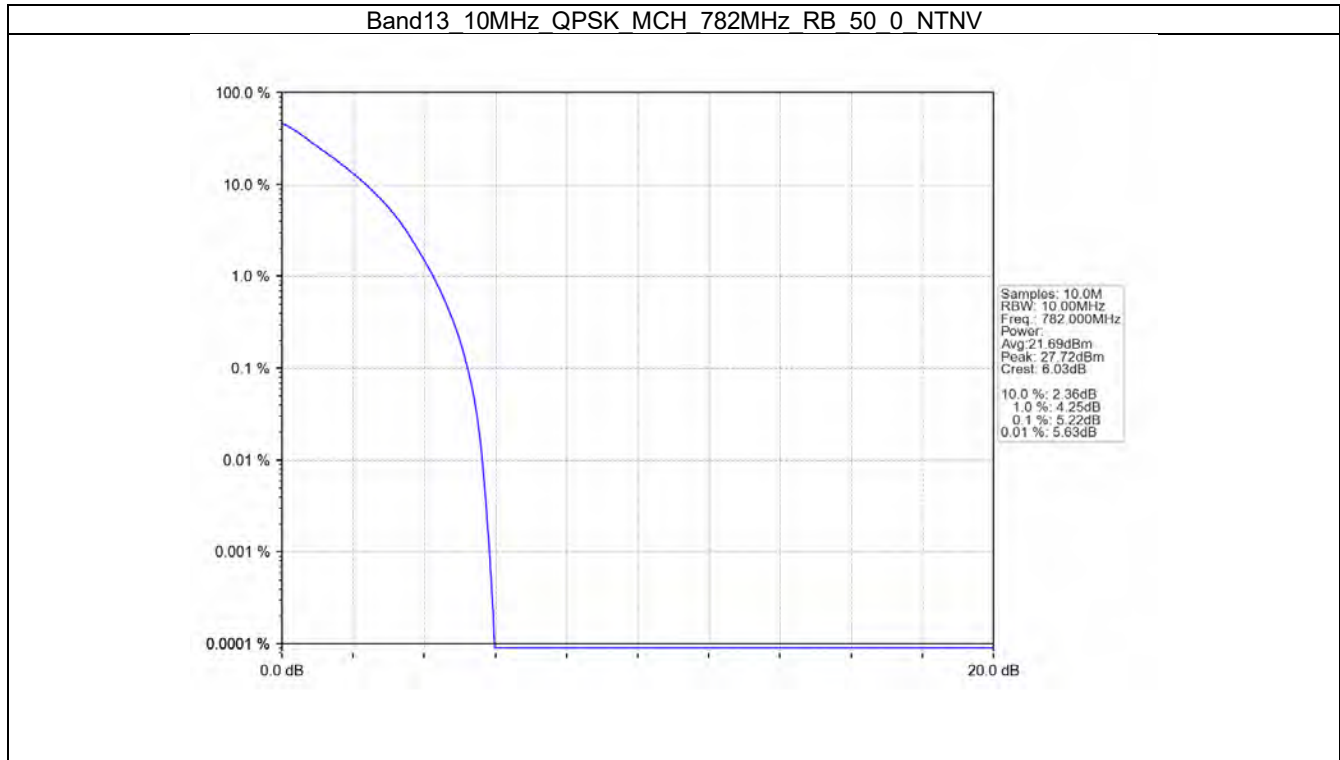
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4.2.2 Test Graph



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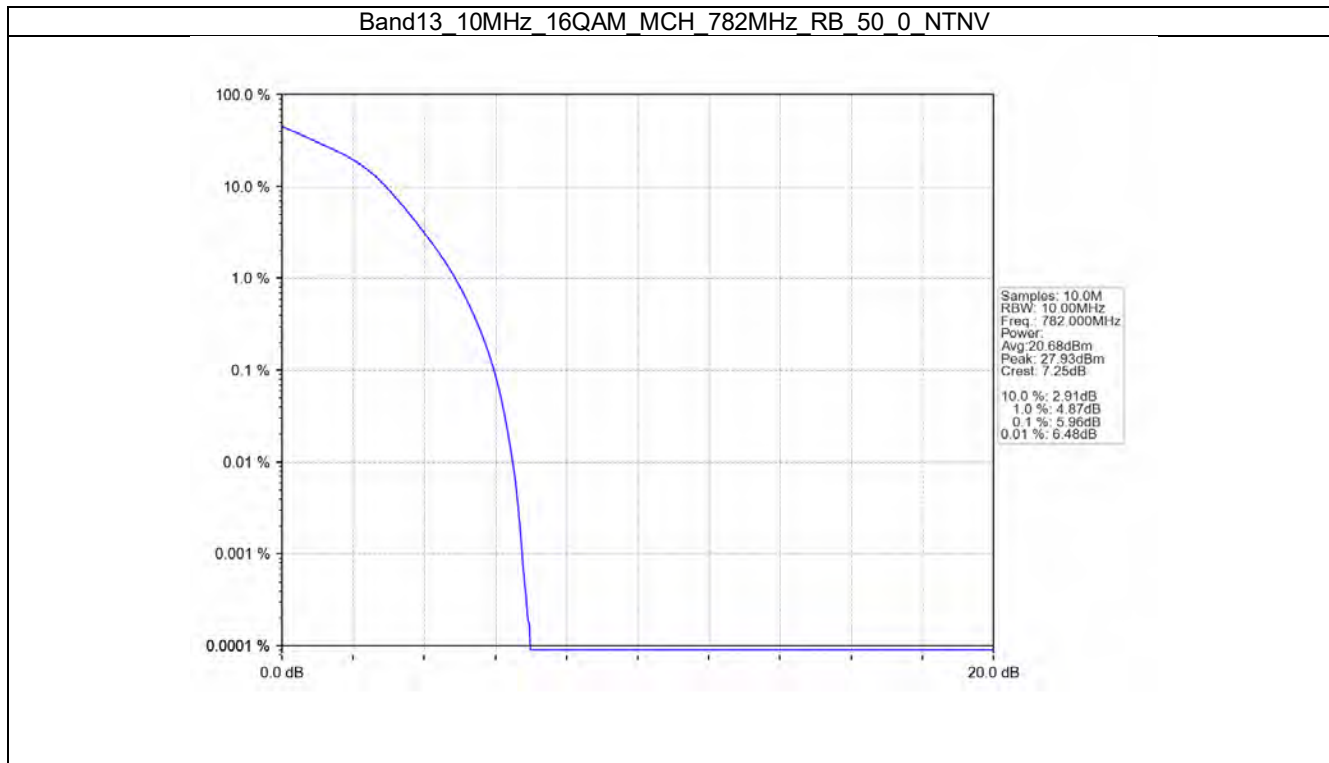
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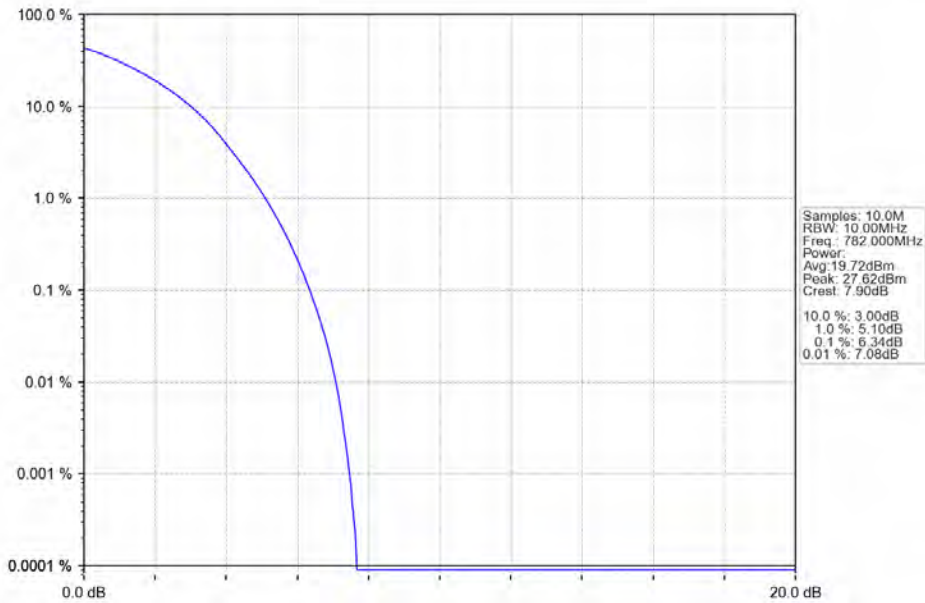
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5. Spurious Emission & Band Edges

5.1 B13_5MHz

5.1.1 Test Result

Band: 13 / Bandwidth: 5MHz / 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
		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
		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	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



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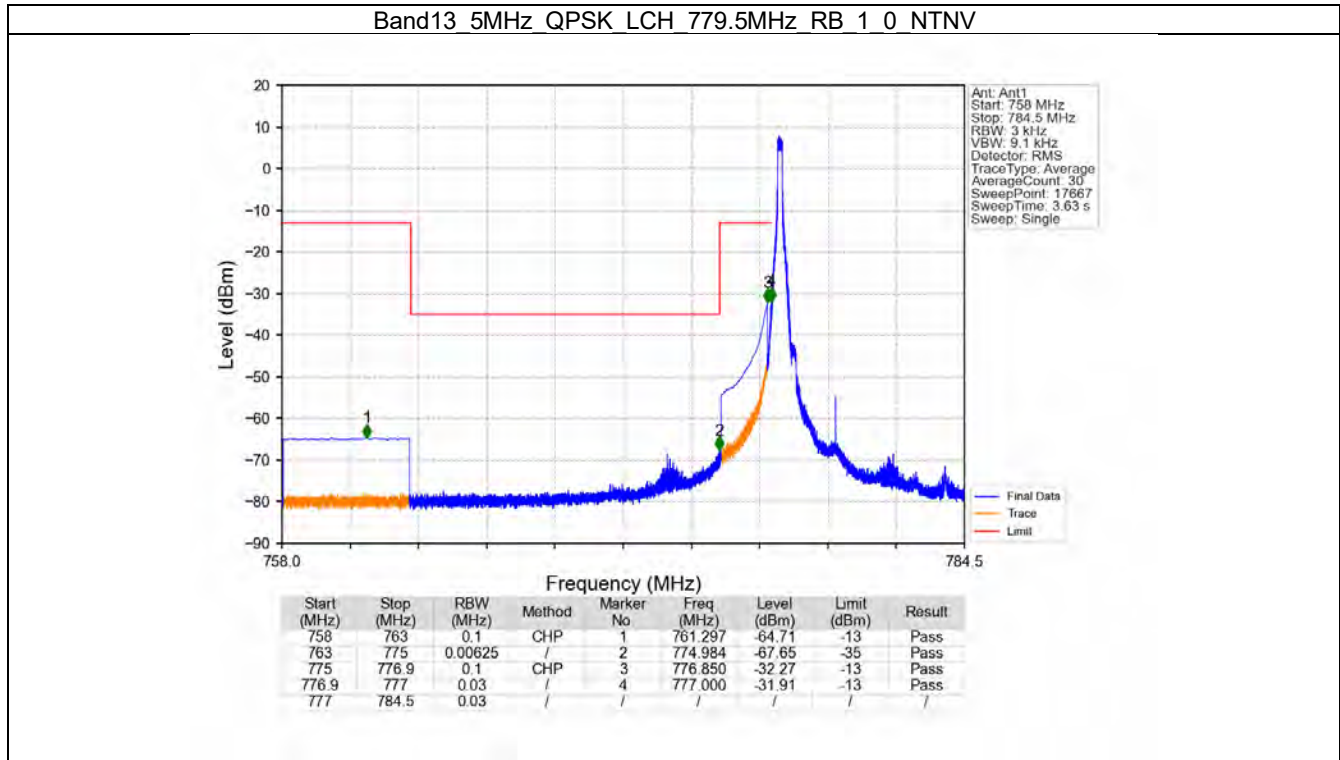
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5.1.2 Test Graph



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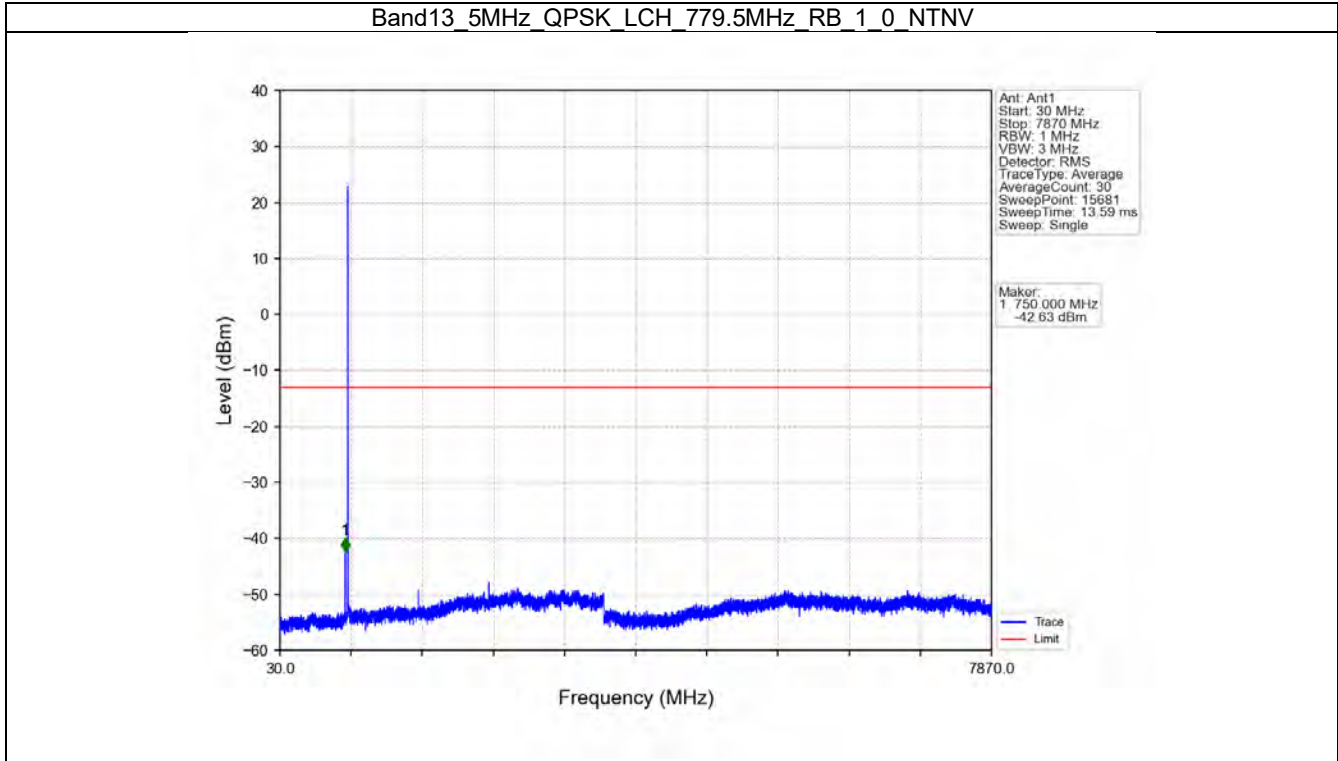


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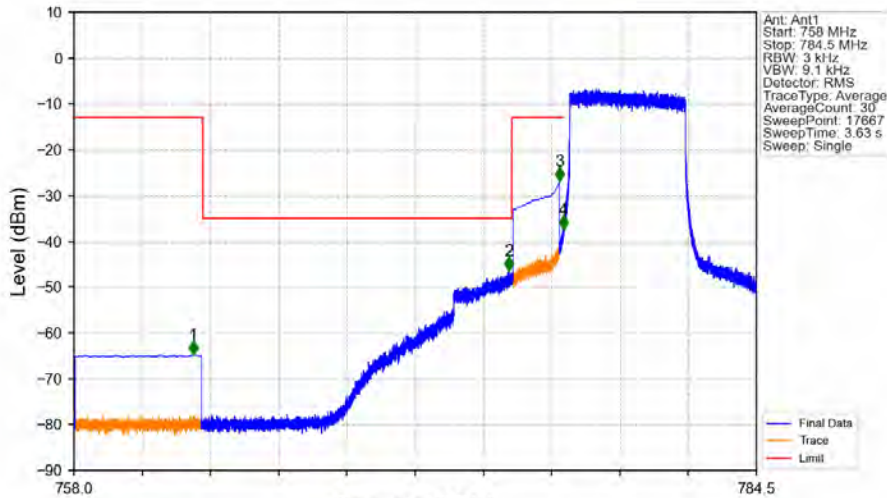
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Band13_5MHz_QPSK_LCH_779.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.626	-64.74	-13	Pass
763	775	0.00625	/	2	774.891	-46.45	-35	Pass
775	776.9	0.1	CHP	3	776.850	-26.83	-13	Pass
776.9	777	0.03	/	4	777.000	-37.40	-13	Pass
777	784.5	0.03	/	/	/	/	/	/



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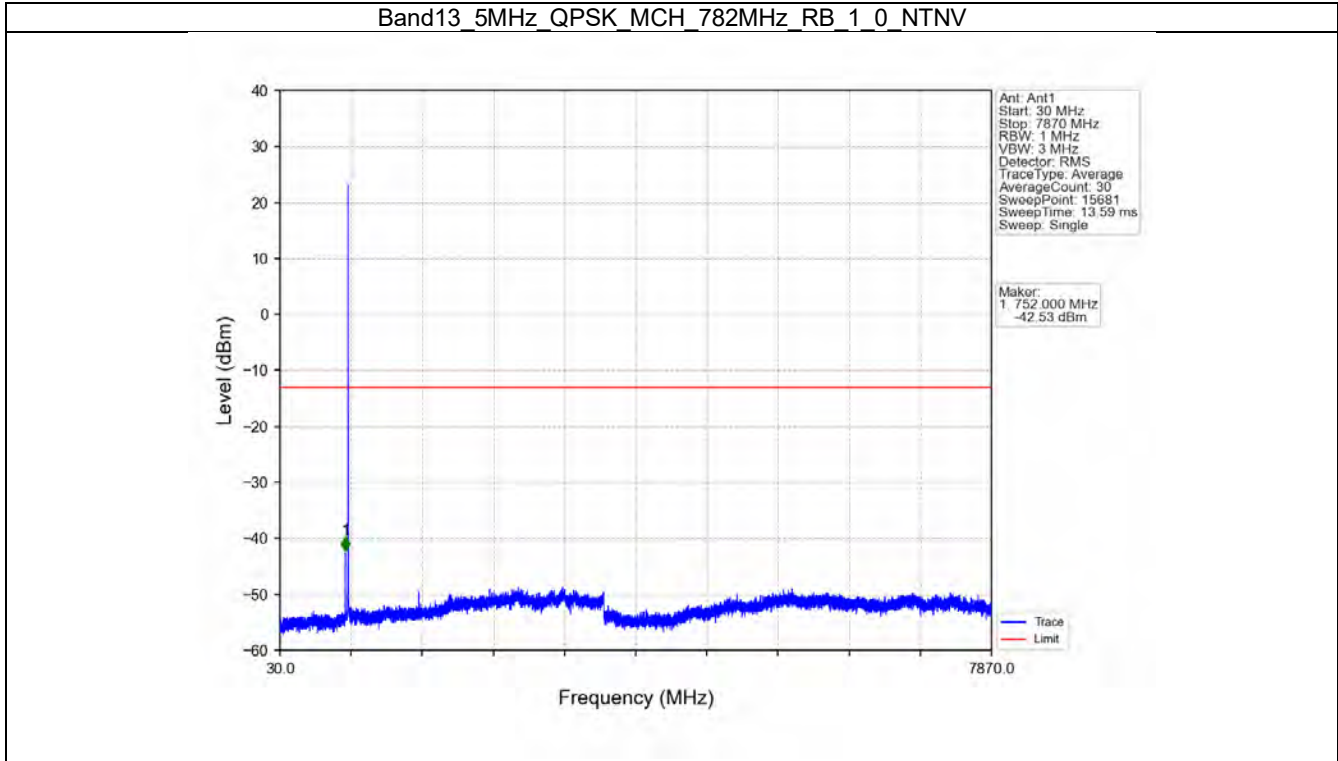


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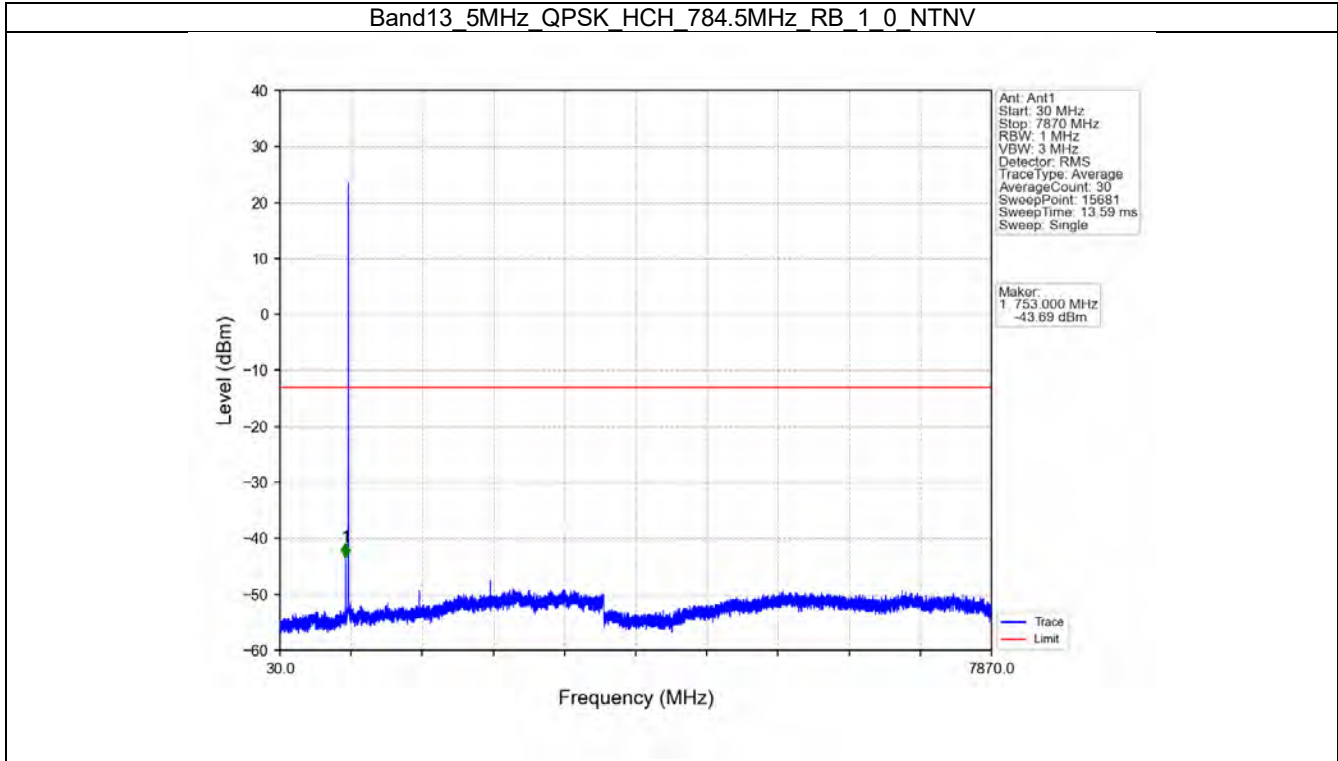


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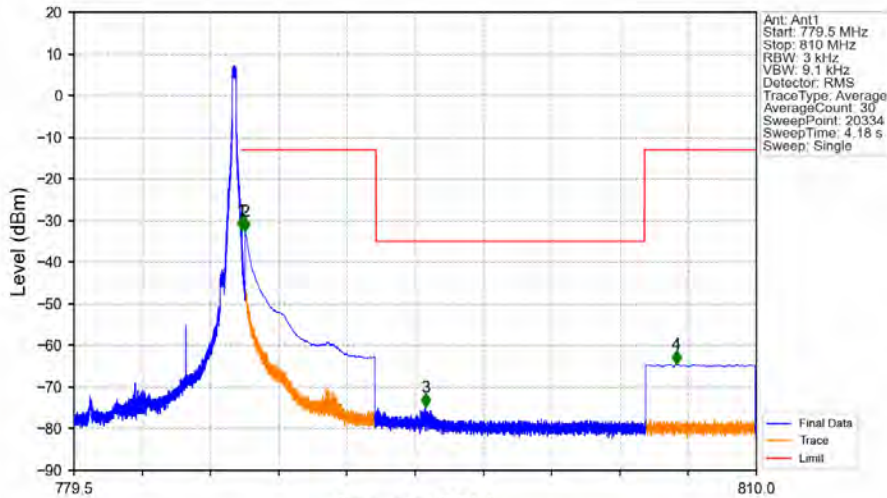
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Band13_5MHz_QPSK_HCH_784.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
779.5	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	1	787.000	-32.42	-13	Pass
787.1	793	0.1	CHP	2	787.150	-32.55	-13	Pass
793	805	0.00625	/	3	795.208	-74.86	-35	Pass
805	810	0.1	CHP	4	806.431	-64.58	-13	Pass



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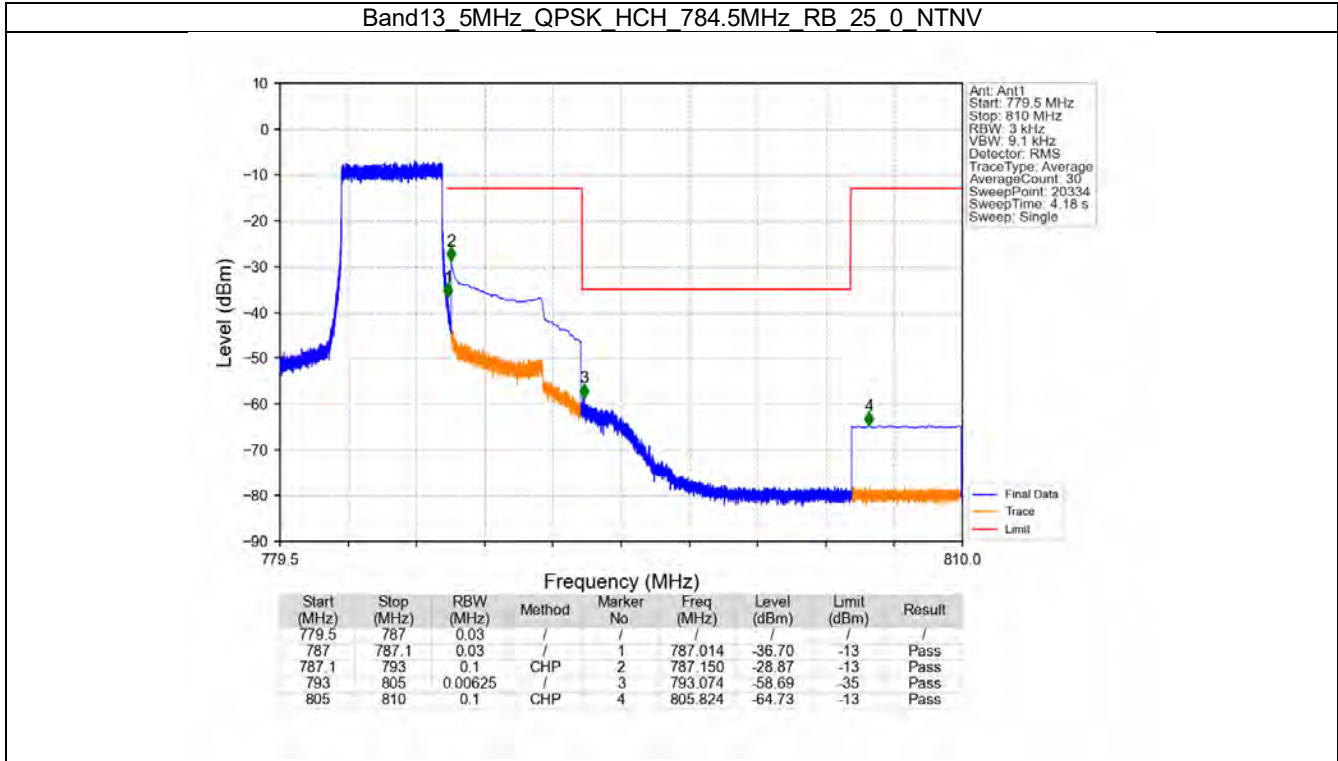


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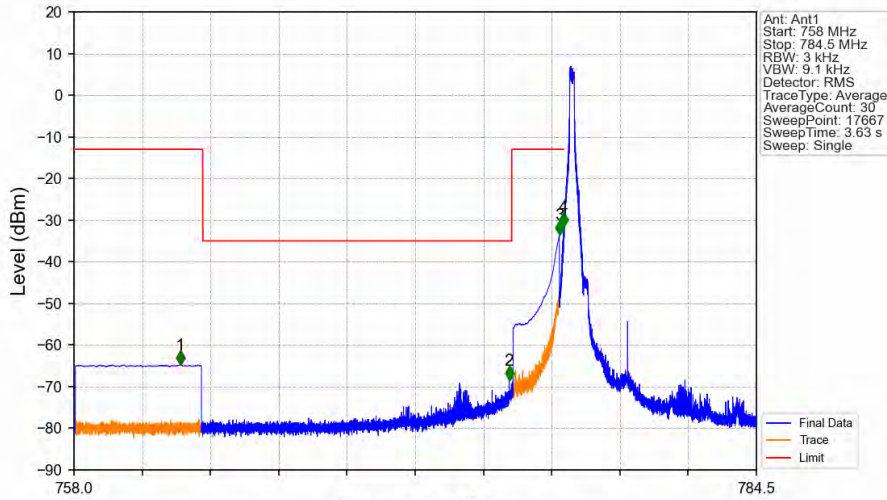
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Band13_5MHz_16QAM_LCH_779.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.121	-64.76	-13	Pass
763	775	0.00625	/	2	774.900	-68.42	-35	Pass
775	776.9	0.1	CHP	3	776.850	-33.57	-13	Pass
776.9	777	0.03	/	4	777.000	-31.69	-13	Pass
777	784.5	0.03	/	/	/	/	/	/



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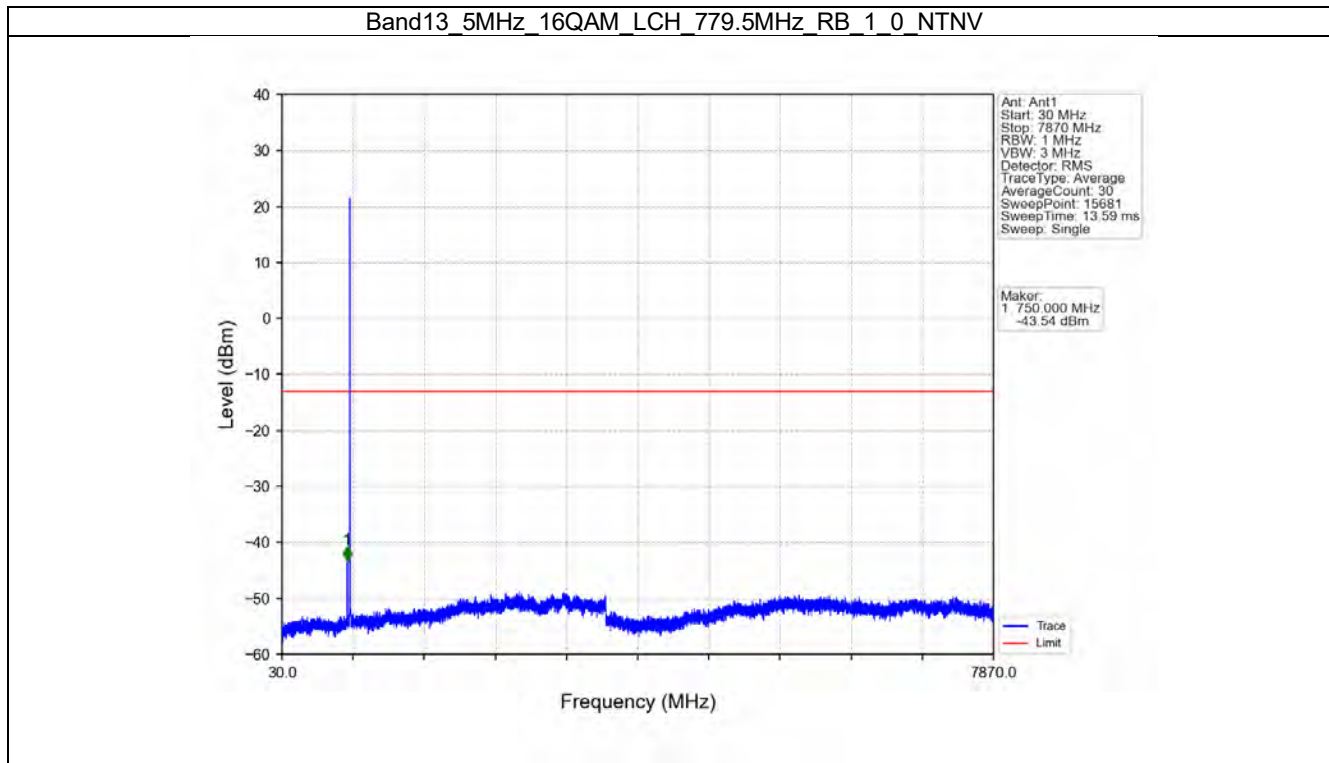
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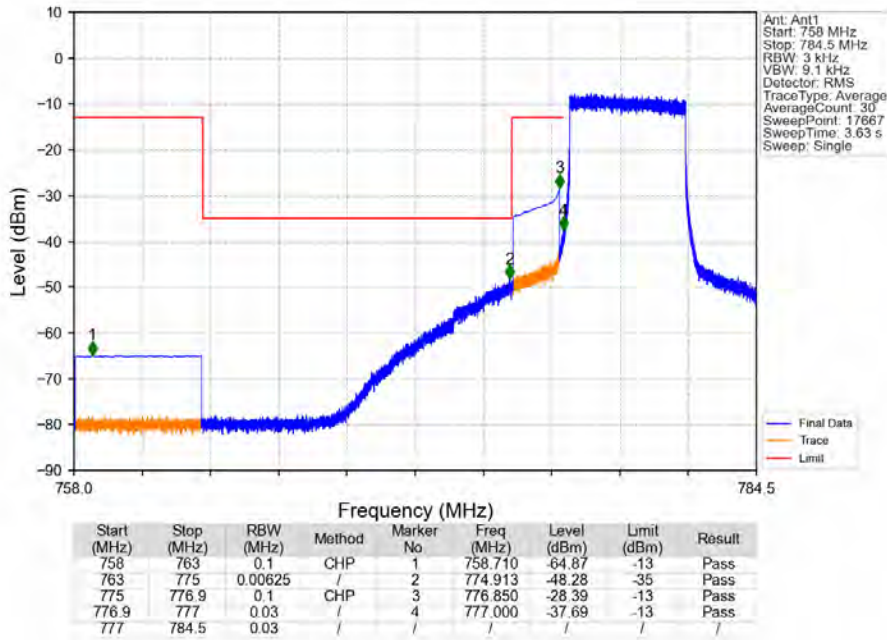
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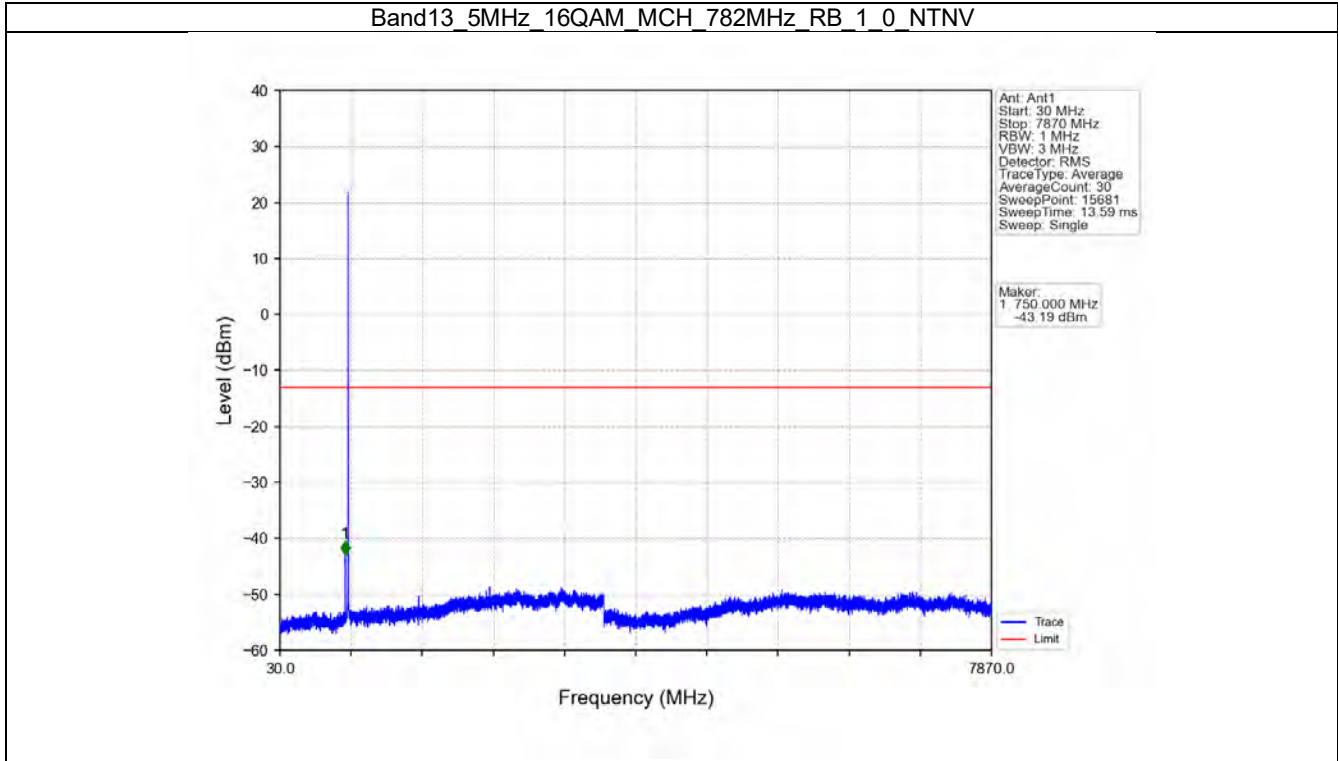


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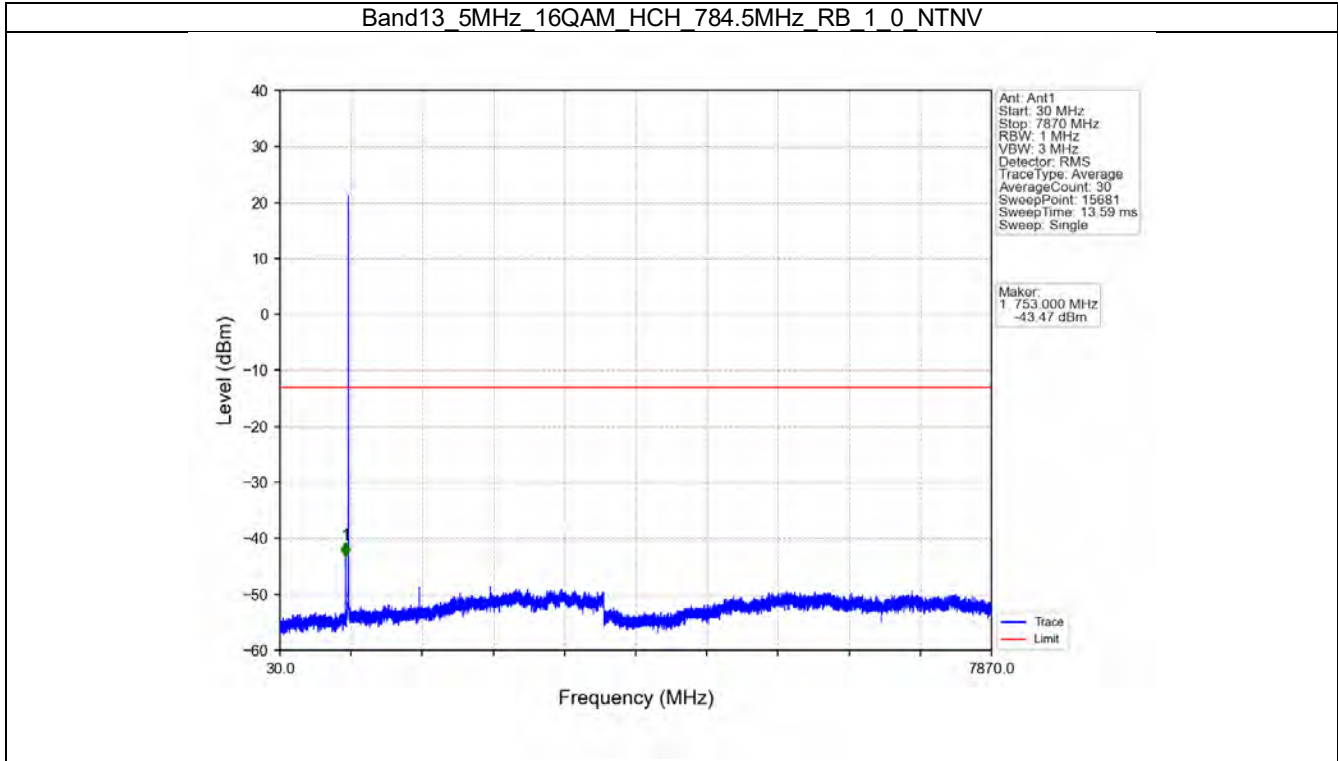


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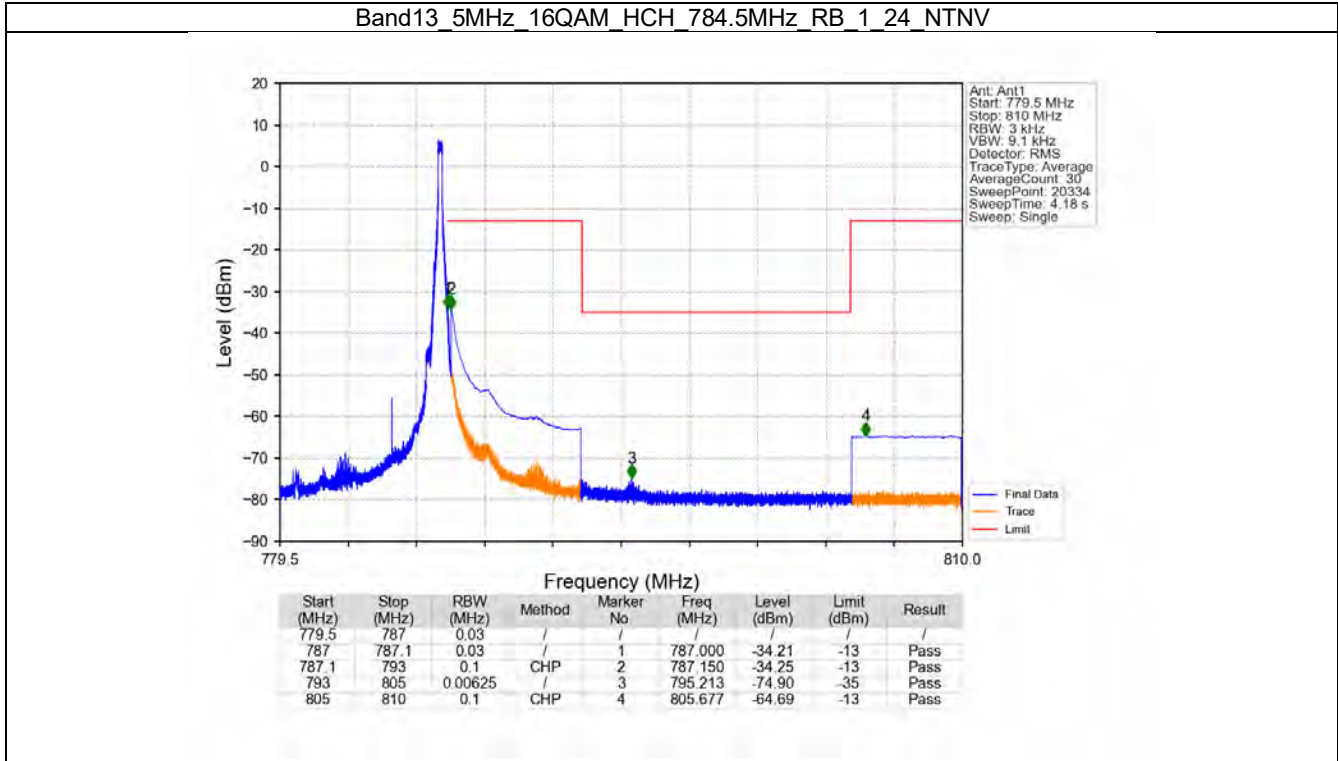


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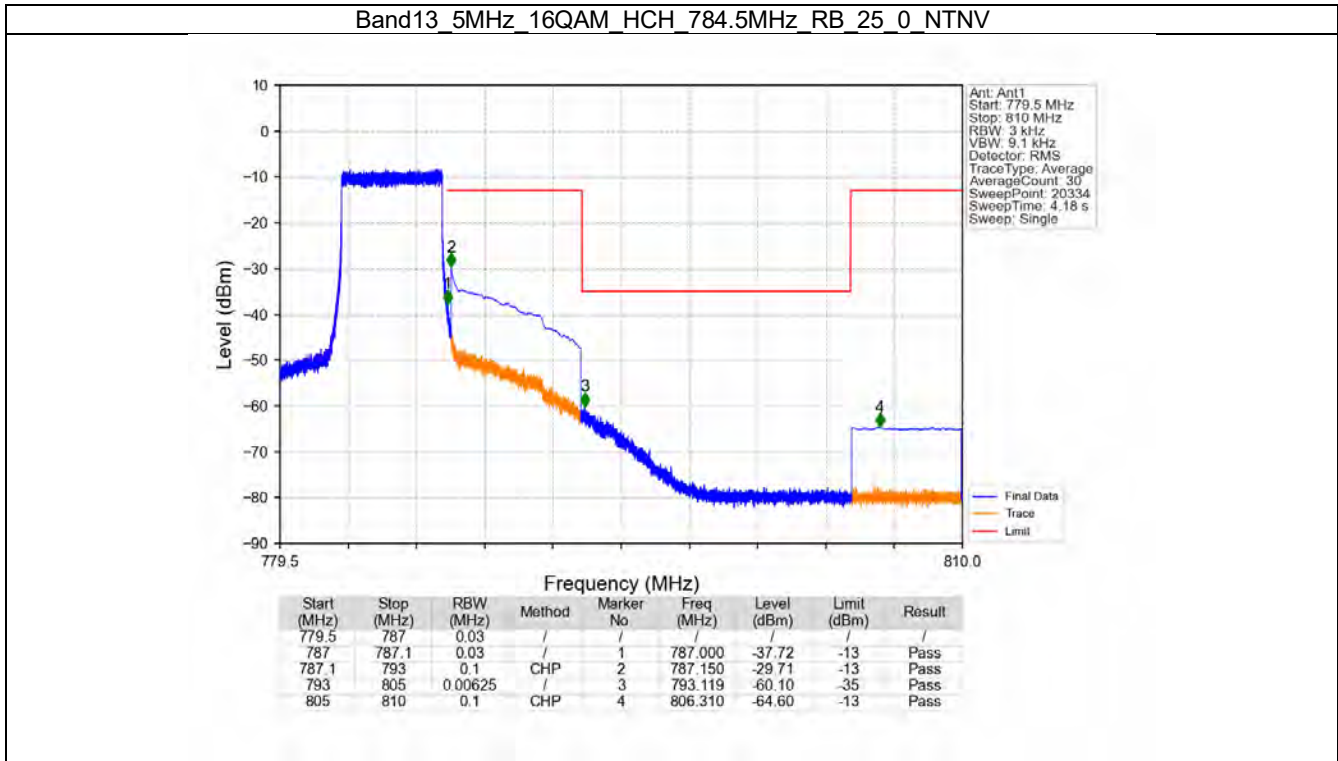


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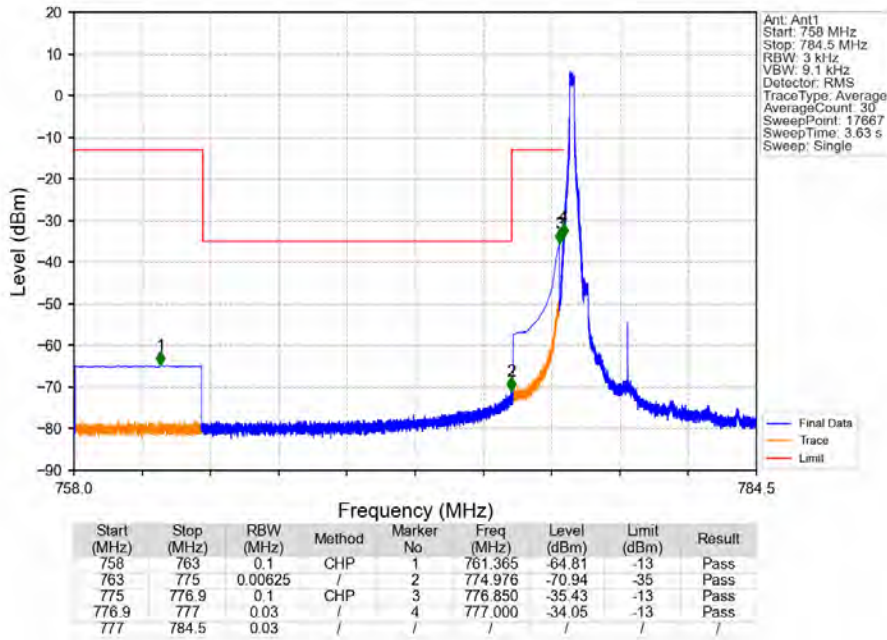
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Band13_5MHz_64QAM_LCH_779.5MHz_RB_1_0_NTNV



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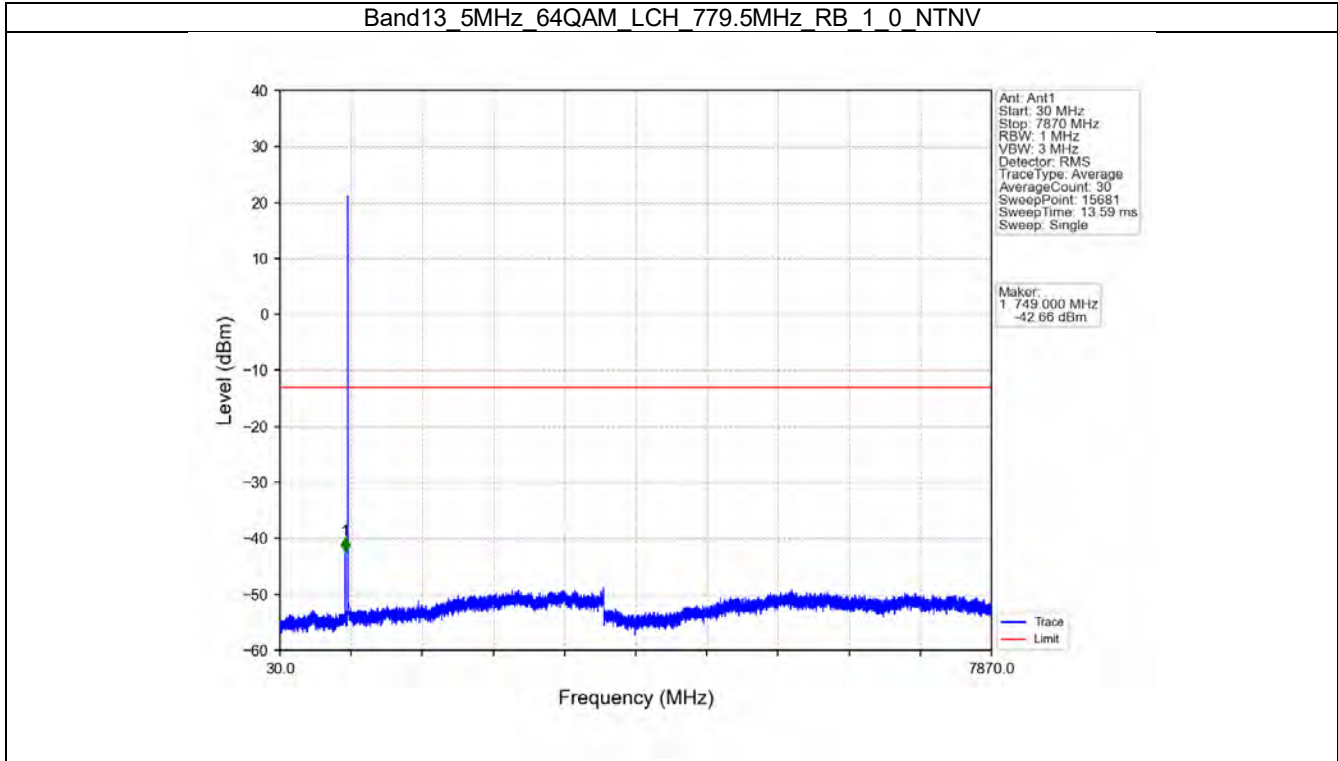


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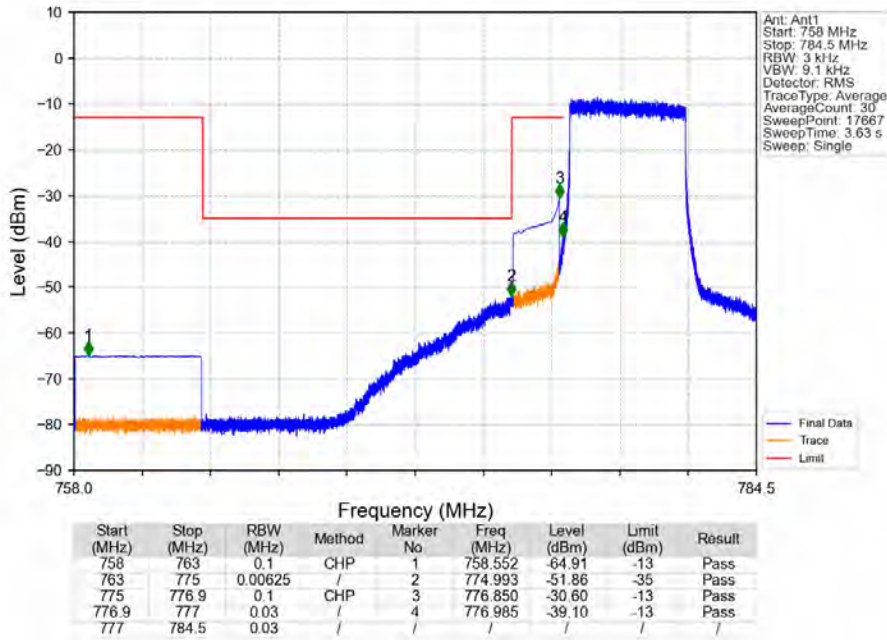
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Band13_5MHz_64QAM_LCH_779.5MHz_RB_25_0_NTNV



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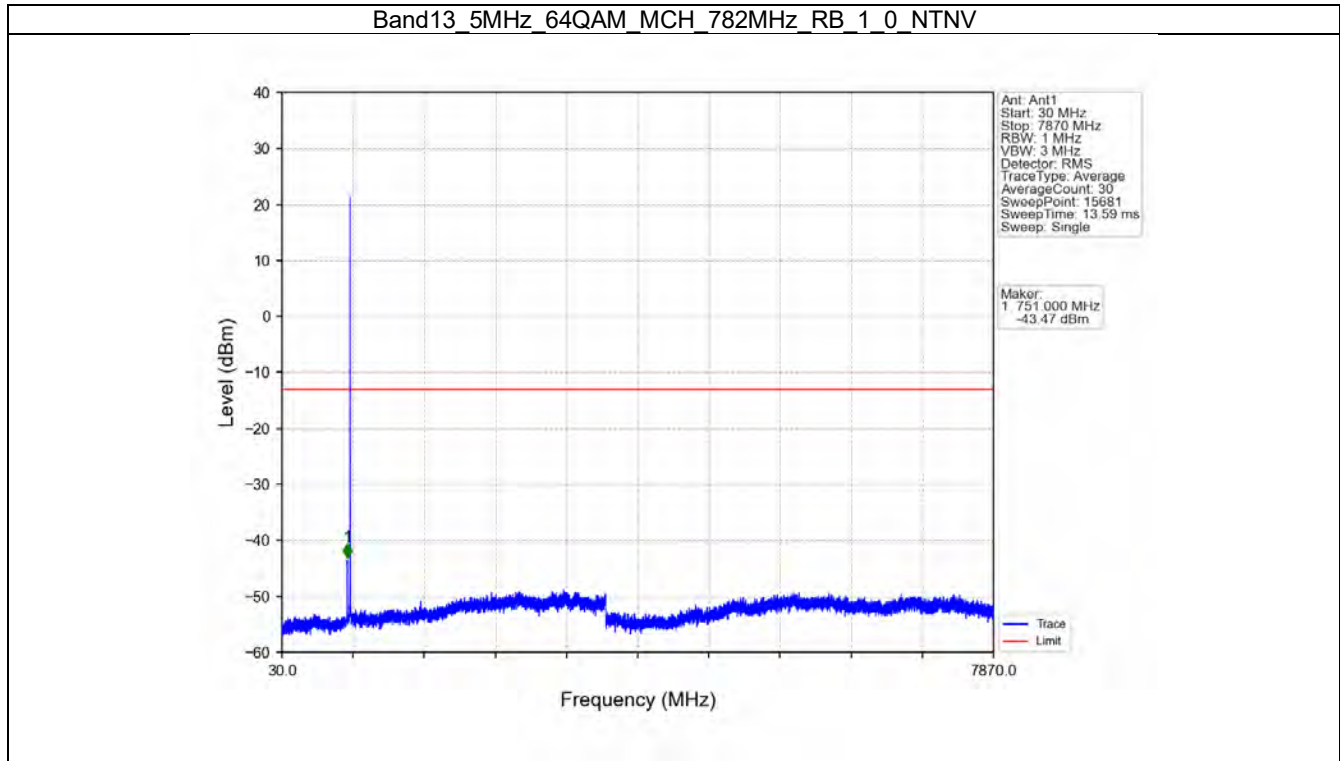


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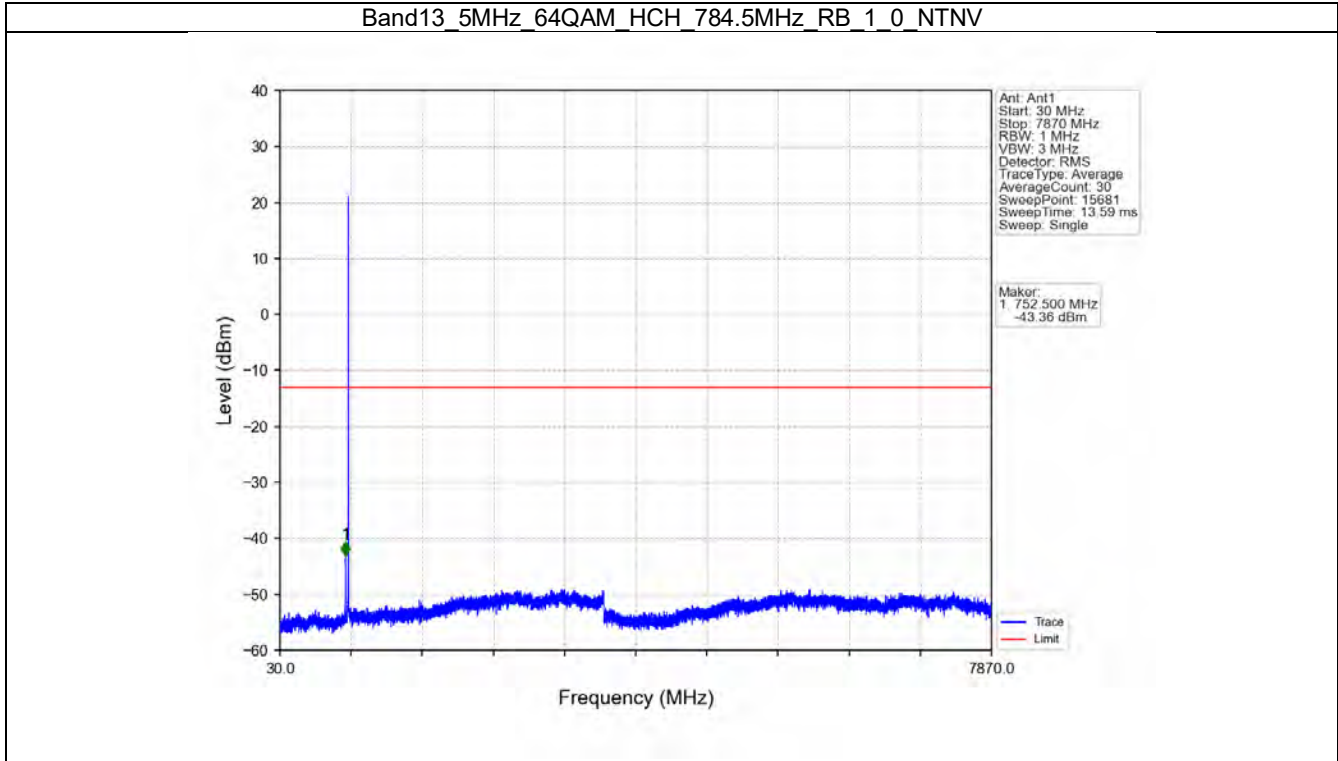


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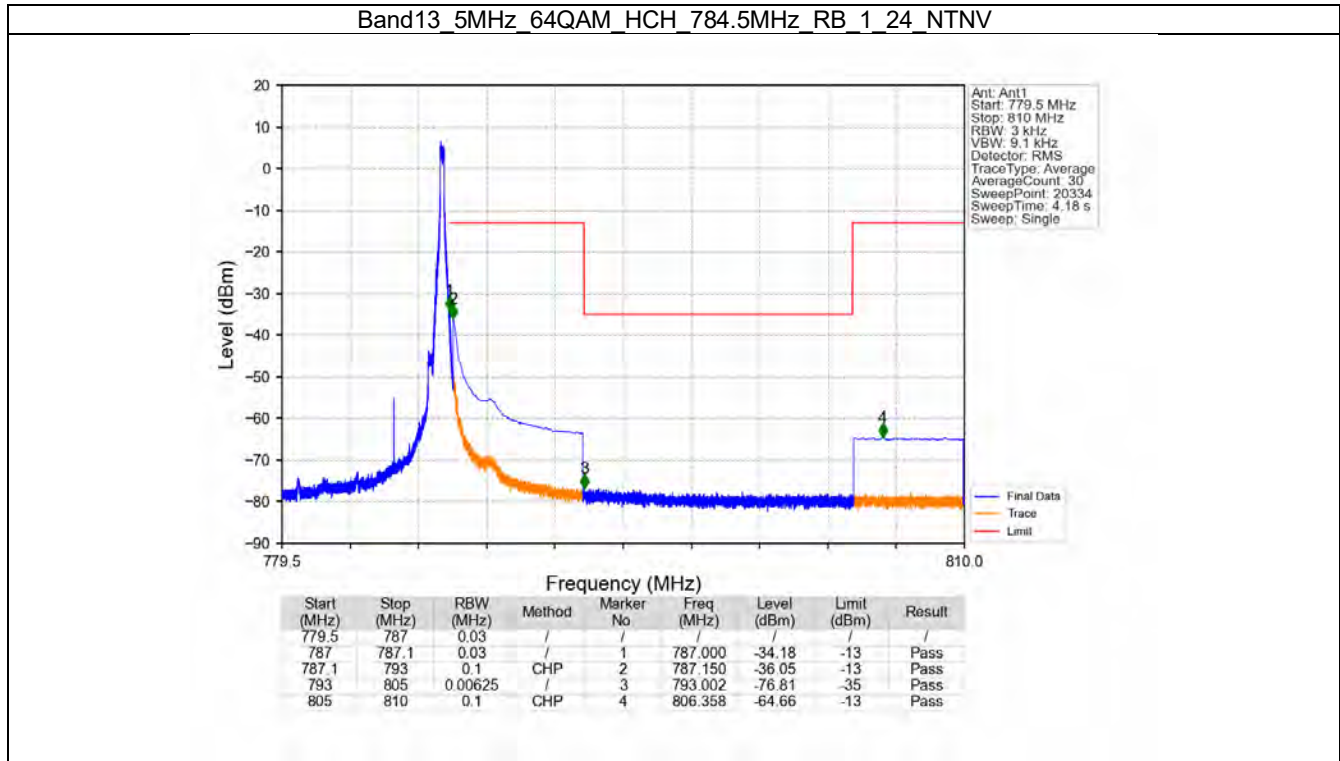


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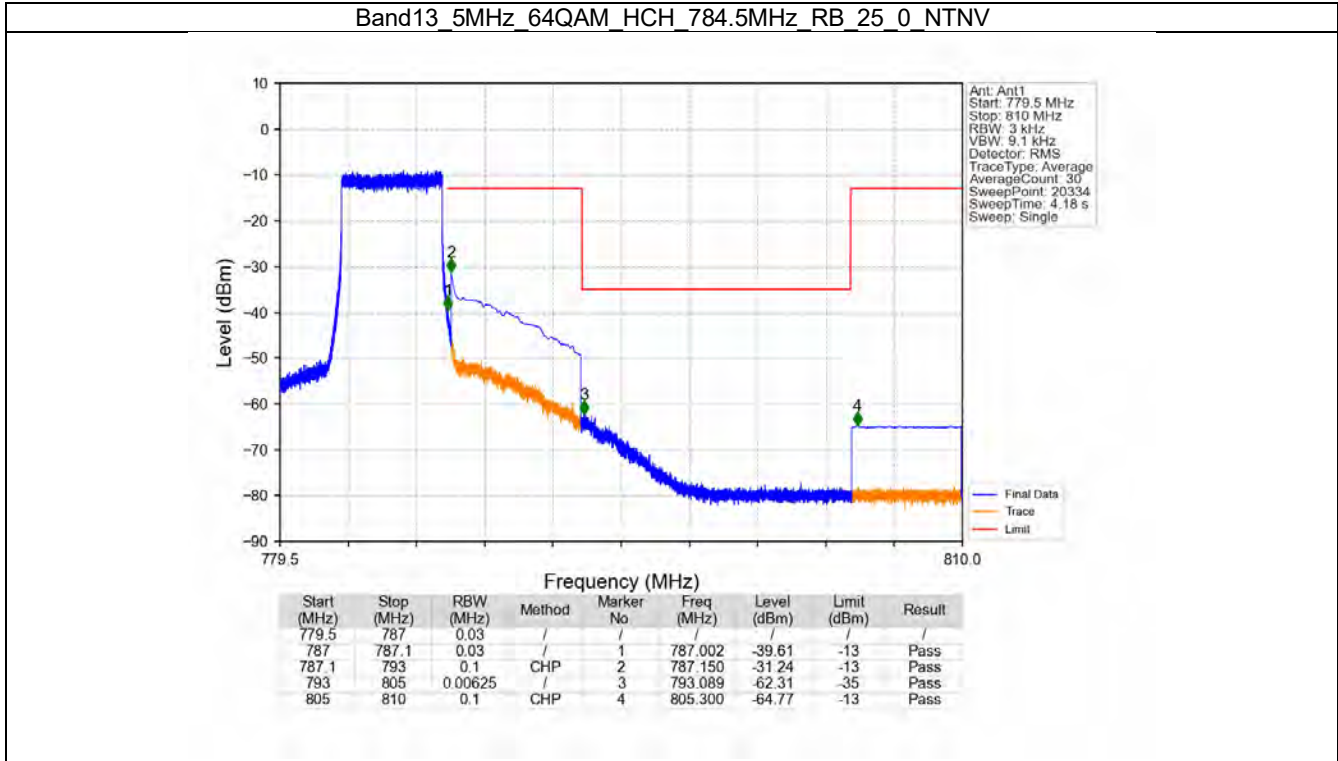


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5.2 B13_10MHz

5.2.1 Test Result

Band: 13 / Bandwidth: 10MHz / 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
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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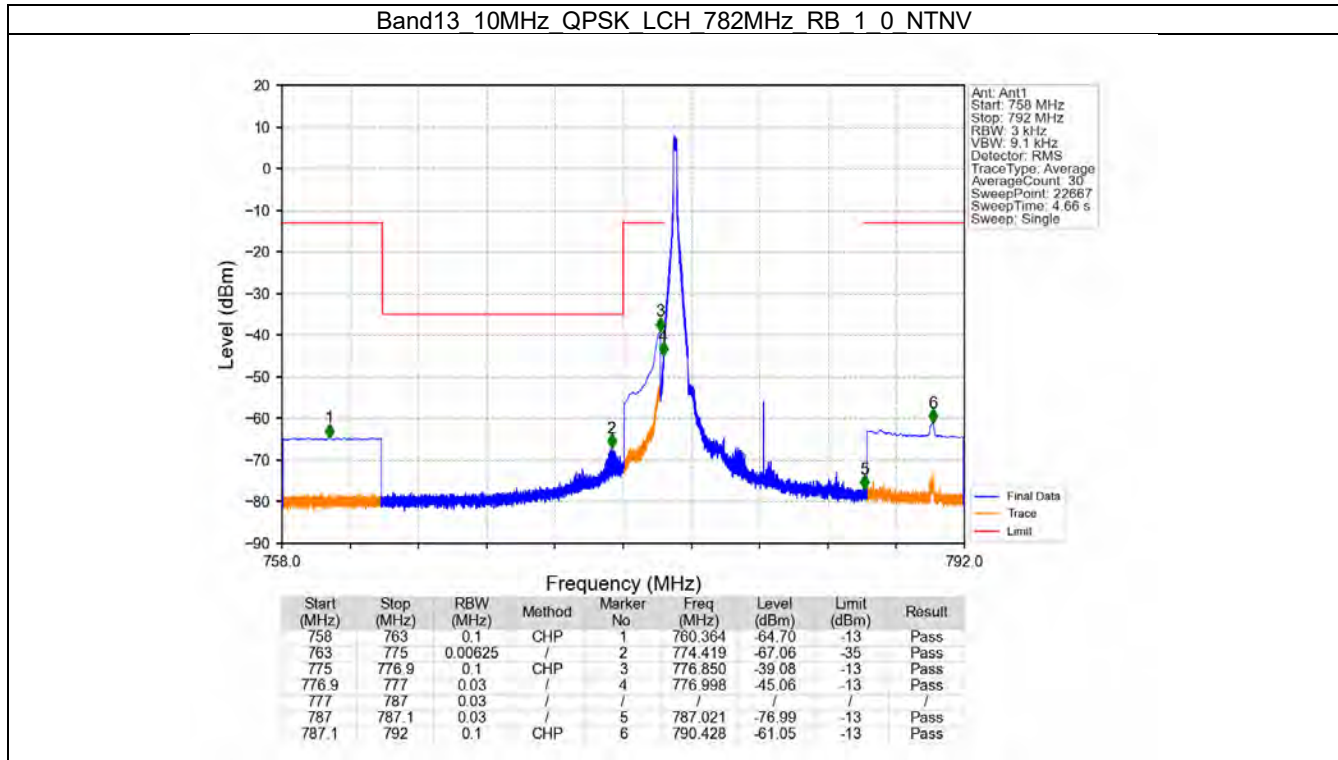
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5.2.2 Test Graph



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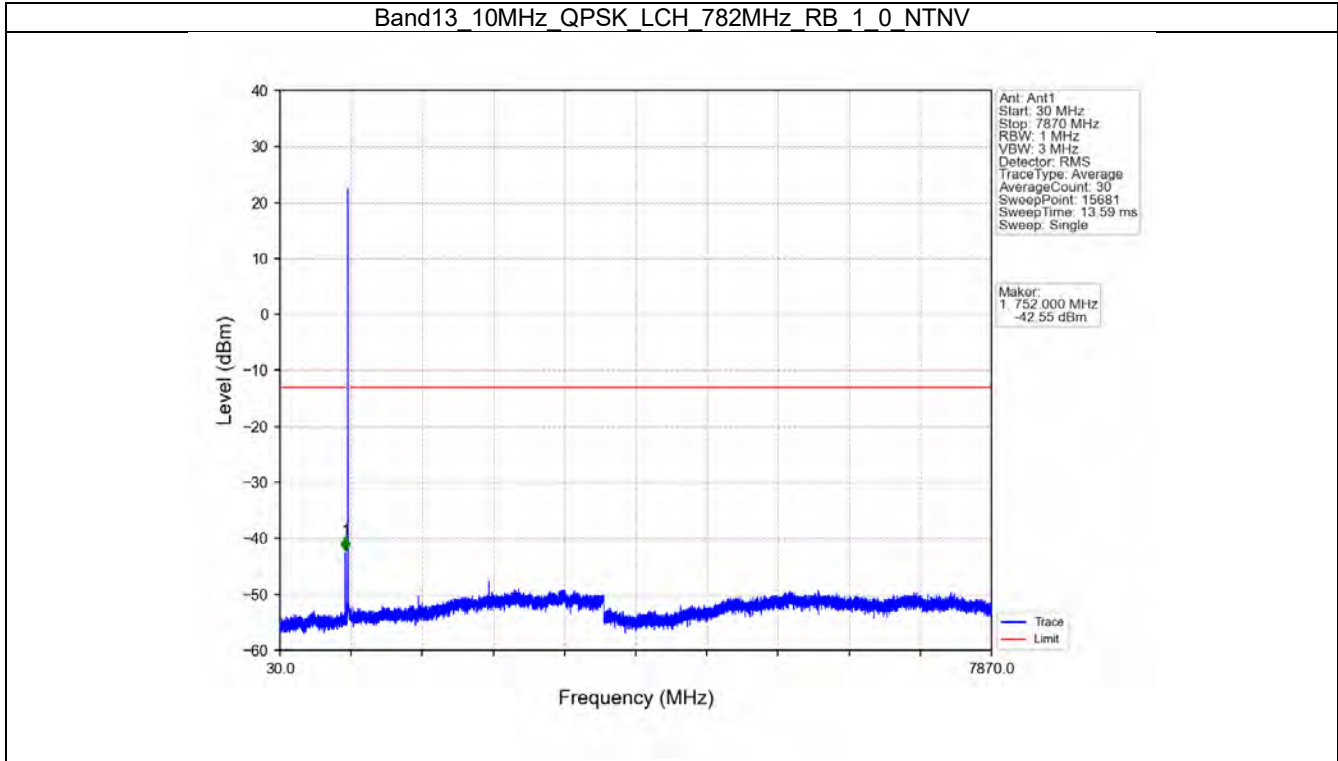


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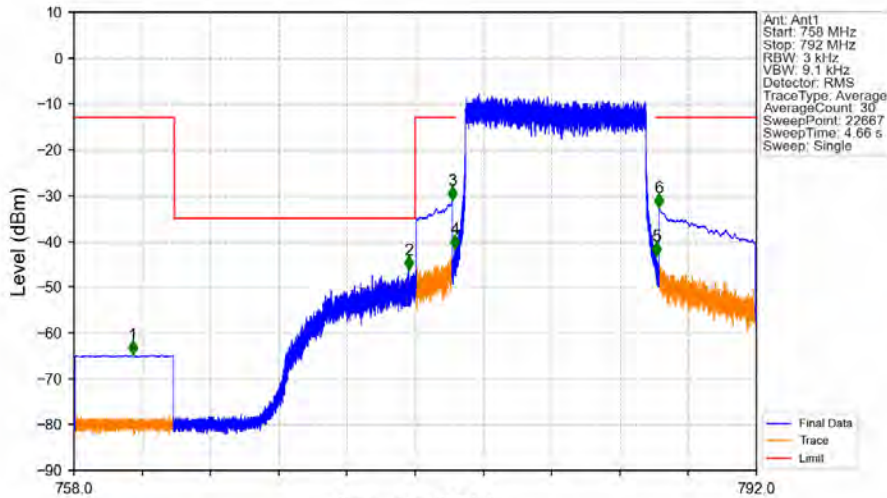
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Band13_10MHz_QPSK_LCH_782MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	760.915	-64.73	-13	Pass
763	775	0.00625	/	2	774.671	-46.32	-35	Pass
775	776.9	0.1	CHP	3	776.847	-31.15	-13	Pass
776.9	777	0.03	/	4	776.985	-41.75	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.002	-43.31	-13	Pass
787.1	792	0.1	CHP	6	787.150	-32.71	-13	Pass



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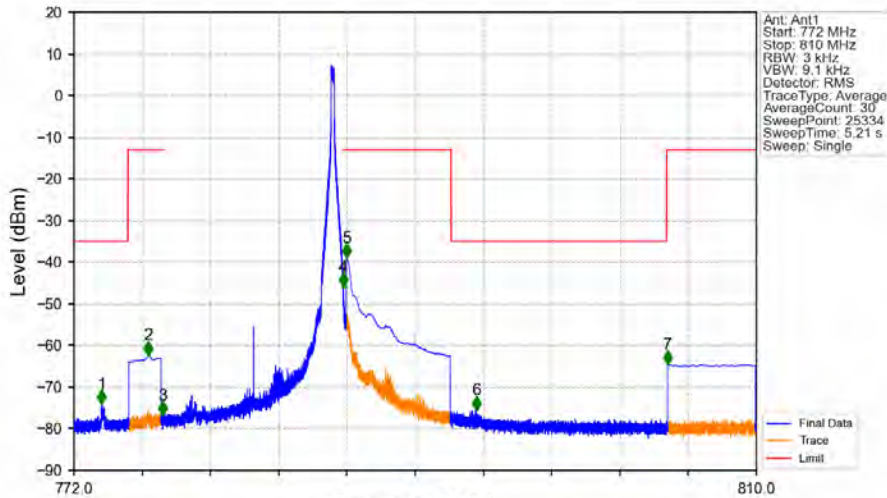
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Band13 10MHz QPSK HCH 782MHz RB 1 49 NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	773.545	-74.06	-35	Pass
775	776.9	0.1	CHP	2	776.134	-62.38	-13	Pass
776.9	777	0.03	/	3	776.946	-76.82	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.002	-45.96	-13	Pass
787.1	793	0.1	CHP	5	787.185	-38.95	-13	Pass
793	805	0.00625	/	6	794.398	-75.55	-35	Pass
805	810	0.1	CHP	7	805.051	-64.64	-13	Pass



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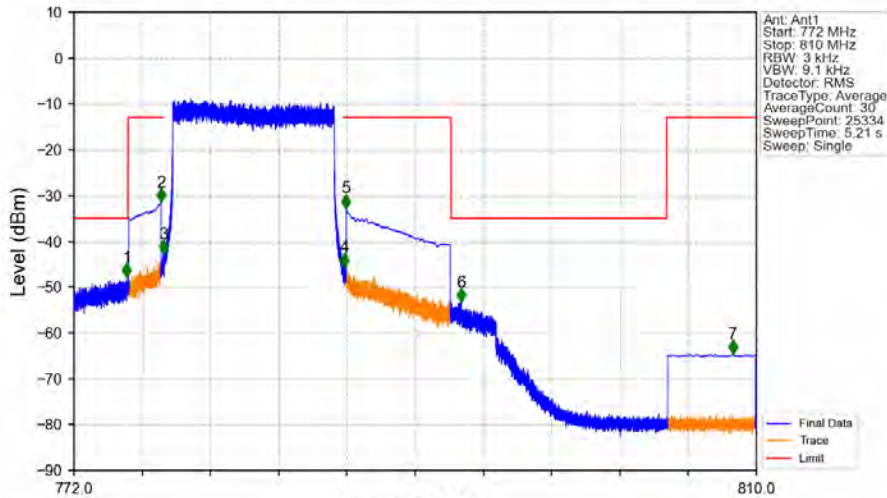
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Band13 10MHz QPSK HCH 782MHz RB 50_0 NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.942	-47.89	-35	Pass
775	776.9	0.1	CHP	2	776.850	-31.46	-13	Pass
776.9	777	0.03	/	3	776.982	-42.80	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.051	-45.66	-13	Pass
787.1	793	0.1	CHP	5	787.150	-32.77	-13	Pass
793	805	0.00625	/	6	793.560	-53.31	-35	Pass
805	810	0.1	CHP	7	808.683	-64.66	-13	Pass



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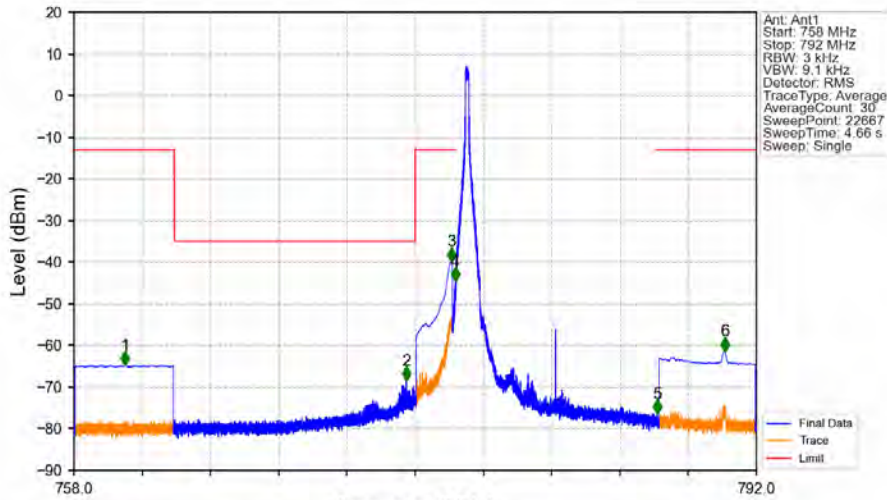
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Band13_10MHz_16QAM_LCH_782MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	760.538	-64.79	-13	Pass
763	775	0.00625	/	2	774.553	-68.53	-35	Pass
775	776.9	0.1	CHP	3	776.794	-39.85	-13	Pass
776.9	777	0.03	/	4	777.000	-44.64	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.044	-76.47	-13	Pass
787.1	792	0.1	CHP	6	790.425	-61.38	-13	Pass



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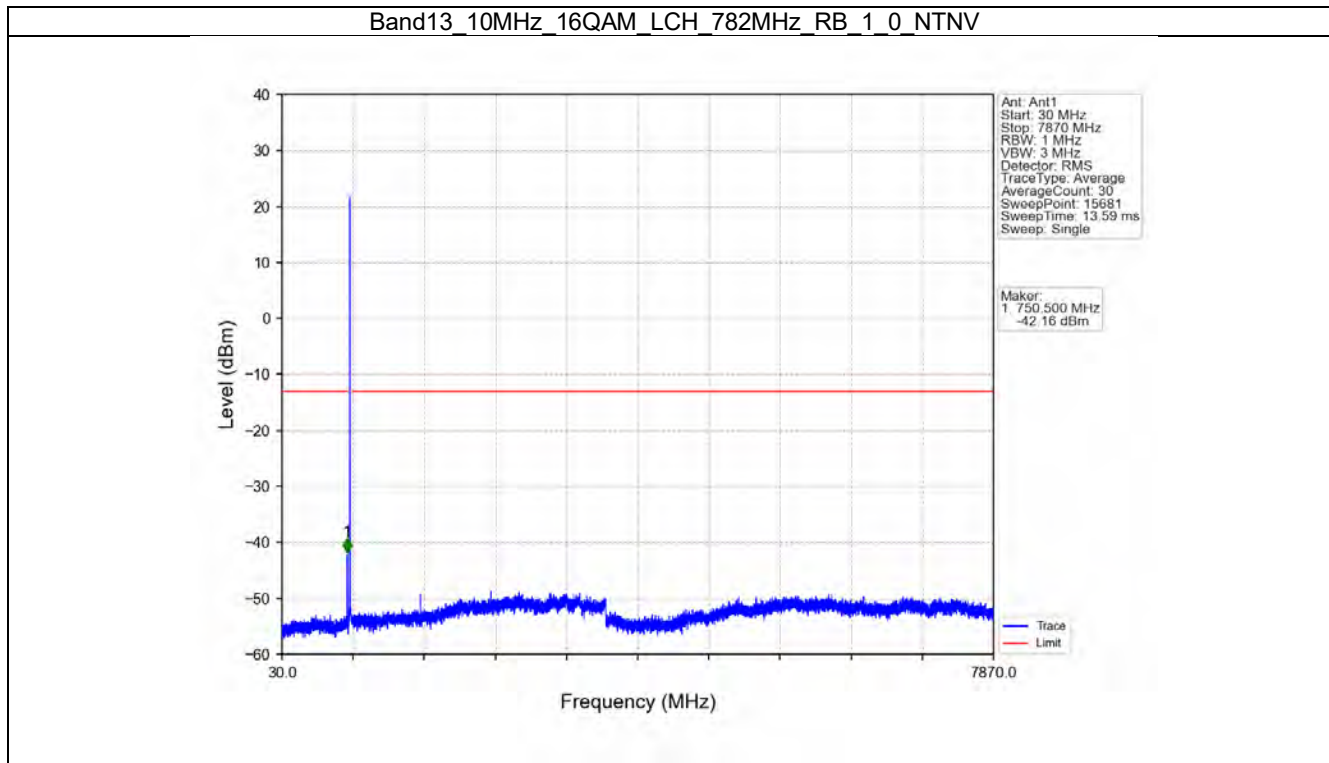
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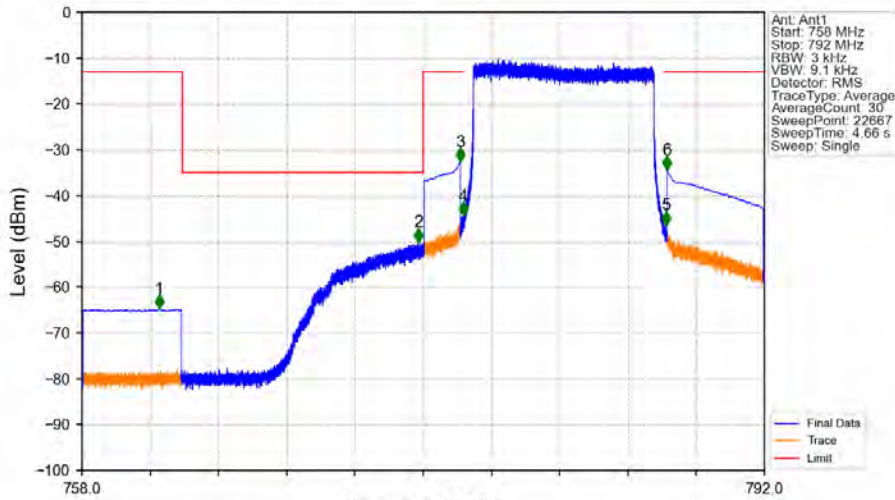
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Band13_10MHz_16QAM_LCH_782MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.839	-64.78	-13	Pass
763	775	0.00625	/	2	774.776	-50.19	-35	Pass
775	776.9	0.1	CHP	3	776.850	-32.66	-13	Pass
776.9	777	0.03	/	4	776.998	-44.42	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.077	-46.49	-13	Pass
787.1	792	0.1	CHP	6	787.150	-34.39	-13	Pass



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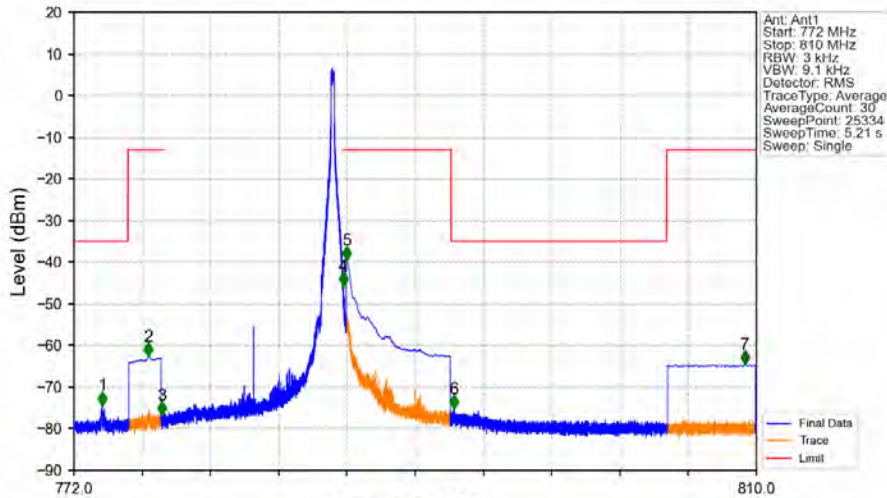
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	773.584	-74.41	-35	Pass
775	776.9	0.1	CHP	2	776.151	-62.59	-13	Pass
776.9	777	0.03	/	3	776.904	-76.83	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.003	-45.80	-13	Pass
787.1	793	0.1	CHP	5	787.194	-39.55	-13	Pass
793	805	0.00625	/	6	793.164	-75.25	-35	Pass
805	810	0.1	CHP	7	809.380	-64.65	-13	Pass



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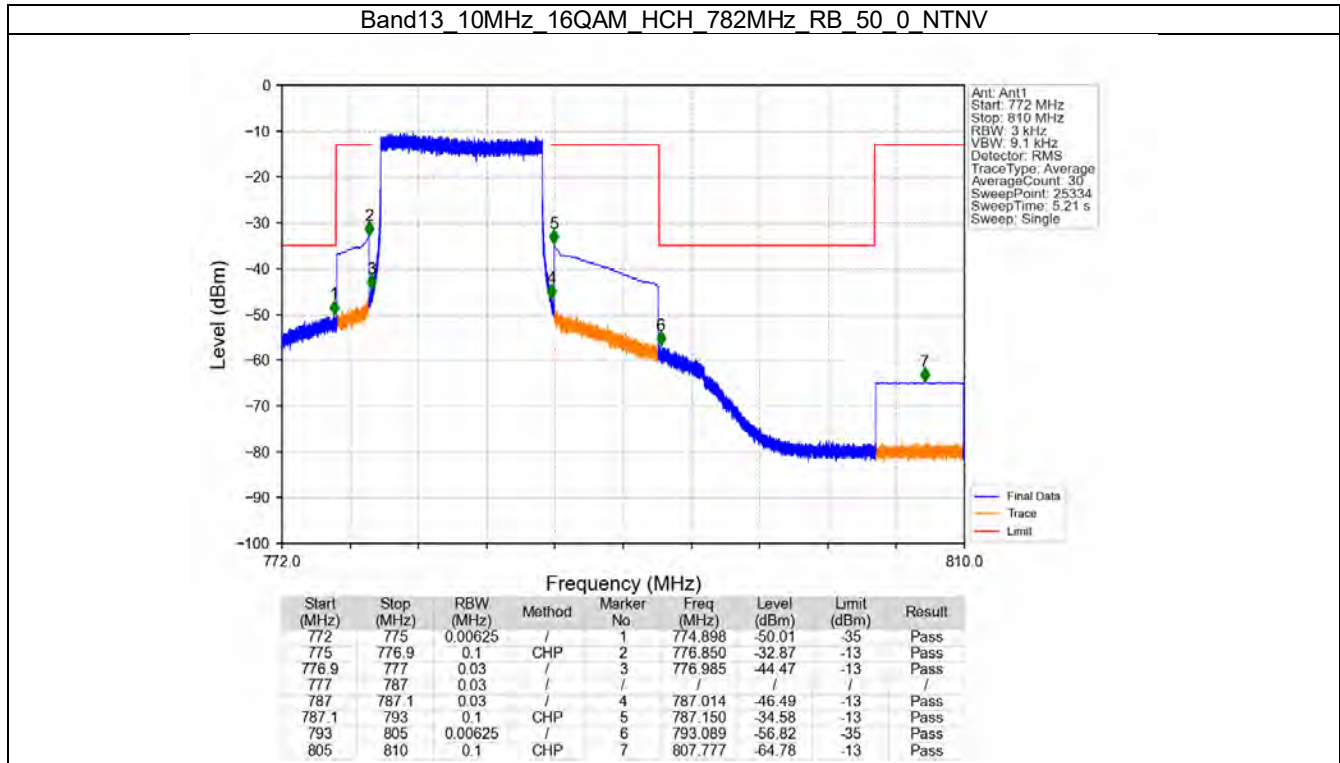


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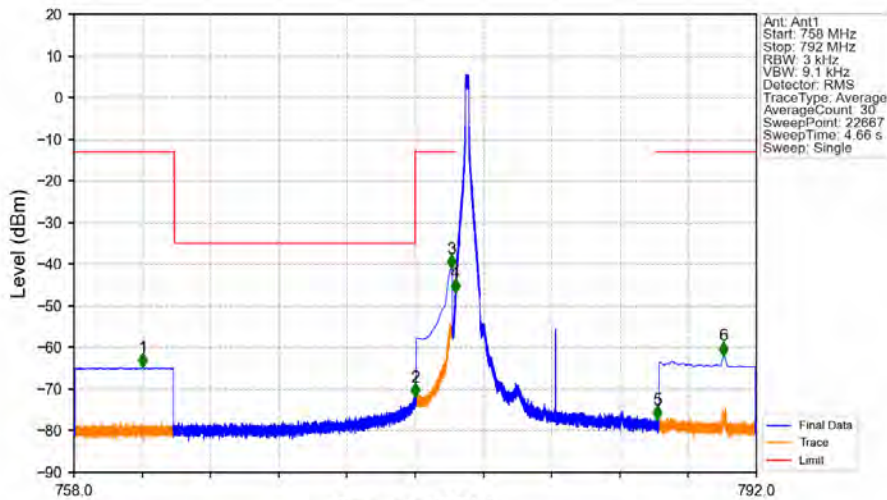
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Band13_10MHz_64QAM_LCH_782MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	761.432	-64.84	-13	Pass
763	775	0.00625	/	2	774.988	-71.93	-35	Pass
775	776.9	0.1	CHP	3	776.796	-41.19	-13	Pass
776.9	777	0.03	/	4	776.997	-46.86	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.041	-77.46	-13	Pass
787.1	792	0.1	CHP	6	790.351	-61.98	-13	Pass



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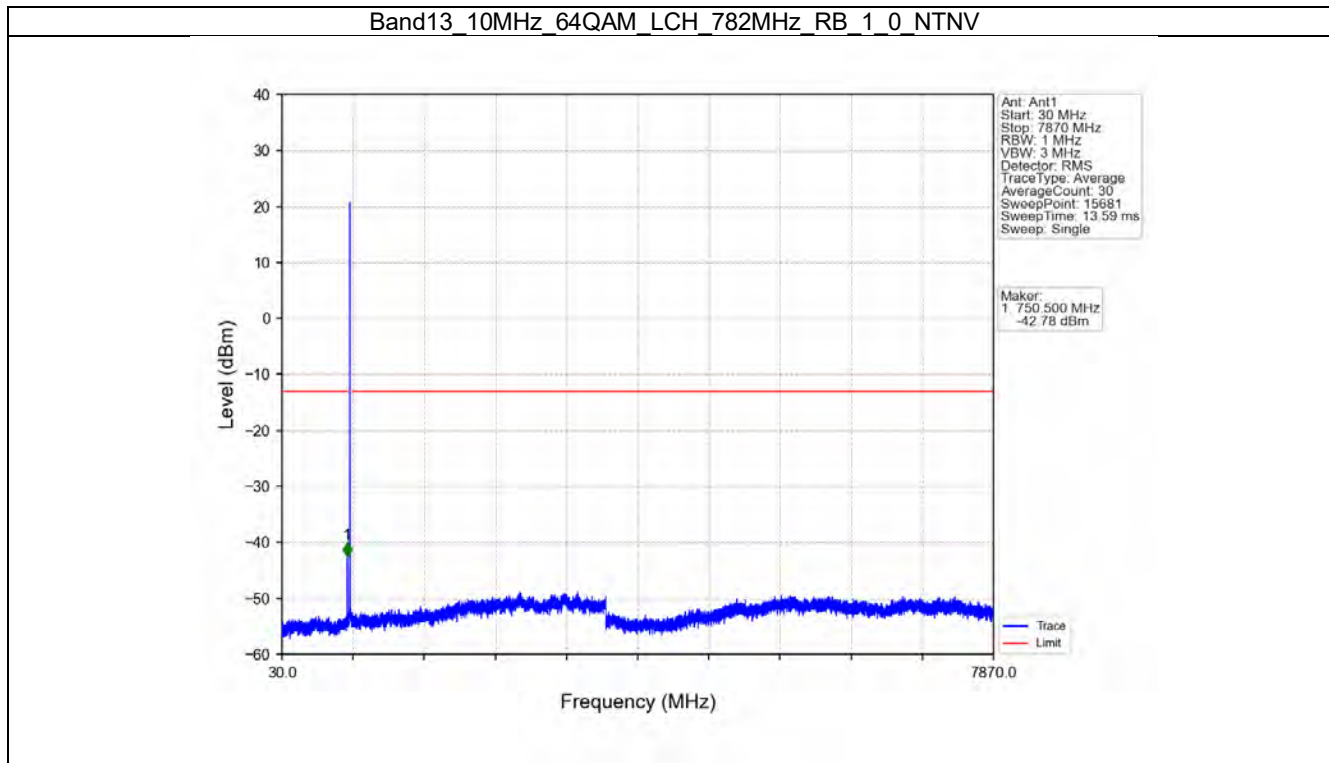
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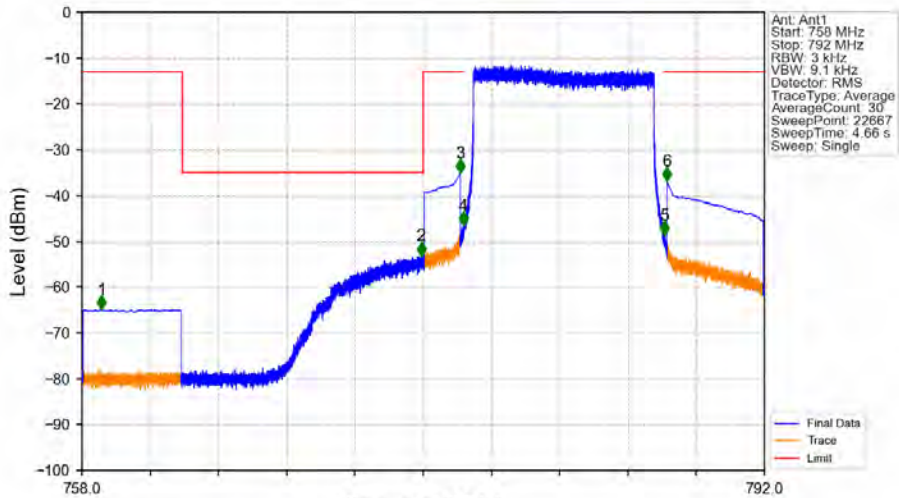
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	758.981	-64.88	-13	Pass
763	775	0.00625	/	2	774.901	-53.18	-35	Pass
775	776.9	0.1	CHP	3	776.850	-35.10	-13	Pass
776.9	777	0.03	/	4	777.000	-46.52	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.014	-48.63	-13	Pass
787.1	792	0.1	CHP	6	787.150	-36.89	-13	Pass



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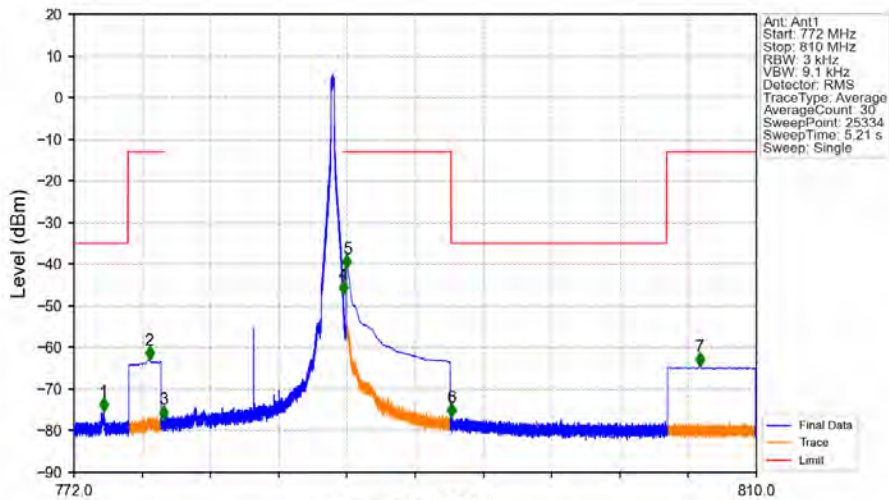
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Band13_10MHz_64QAM_HCH_782MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	773.649	-75.44	-35	Pass
775	776.9	0.1	CHP	2	776.202	-63.05	-13	Pass
776.9	777	0.03	/	3	776.965	-77.32	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.005	-47.34	-13	Pass
787.1	793	0.1	CHP	5	787.200	-41.14	-13	Pass
793	805	0.00625	/	6	793.017	-76.87	-35	Pass
805	810	0.1	CHP	7	806.842	-64.64	-13	Pass



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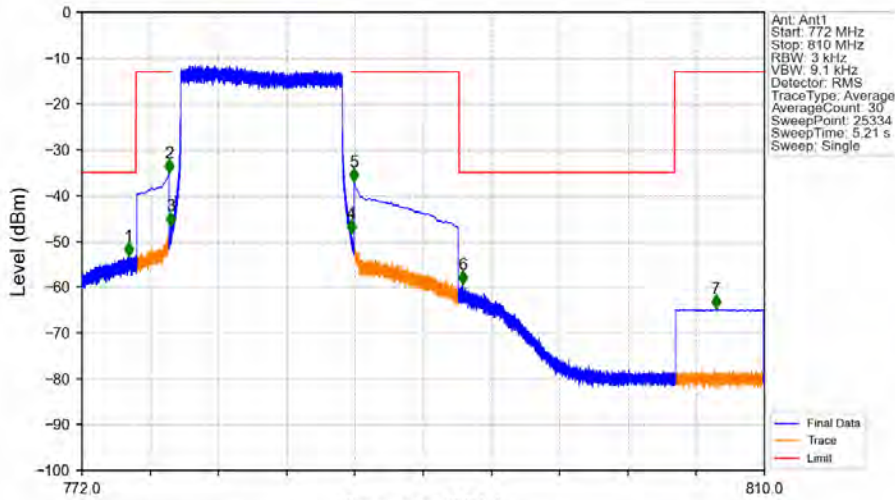
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.601	-53.34	-35	Pass
775	776.9	0.1	CHP	2	776.850	-35.12	-13	Pass
776.9	777	0.03	/	3	776.929	-46.65	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.003	-48.31	-13	Pass
787.1	793	0.1	CHP	5	787.150	-36.98	-13	Pass
793	805	0.00625	/	6	793.195	-59.49	-35	Pass
805	810	0.1	CHP	7	807.297	-64.76	-13	Pass



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6. Field Strength of Spurious Radiation

Test Band = B13_10M ANT13_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	49.57	24.67	-48.96	-69.98	-13.00	56.98	Horizontal
2	2332.5000	47.35	27.00	-48.26	-69.17	-13.00	56.17	Horizontal
3	3110.0000	45.82	28.62	-47.80	-68.62	-13.00	55.62	Horizontal
4	3887.5000	44.71	29.32	-47.20	-68.43	-13.00	55.43	Horizontal
5	4665.0000	44.80	30.60	-46.99	-66.85	-13.00	53.85	Horizontal
6	5442.5000	44.92	32.46	-46.83	-64.71	-13.00	51.71	Horizontal

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1555.0000	48.87	24.67	-48.96	-70.68	-13.00	57.68	Vertical
2	2332.5000	45.39	27.00	-48.26	-71.13	-13.00	58.13	Vertical
3	3110.0000	44.78	28.62	-47.80	-69.66	-13.00	56.66	Vertical
4	3887.5000	44.41	29.32	-47.20	-68.73	-13.00	55.73	Vertical
5	4665.0000	44.64	30.60	-46.99	-67.01	-13.00	54.01	Vertical
6	5442.5000	44.77	32.46	-46.83	-64.86	-13.00	51.86	Vertical



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

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Test Band = B13_5M ANT13_TM1
Test Channel = low

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.5000	45.83	24.66	-48.97	-73.74	-13.00	60.74	Horizontal
2	2331.7500	45.20	27.00	-48.26	-71.32	-13.00	58.32	Horizontal
3	3109.0000	44.76	28.62	-47.81	-69.69	-13.00	56.69	Horizontal
4	3886.2500	44.58	29.32	-47.20	-68.56	-13.00	55.56	Horizontal
5	4663.5000	44.65	30.59	-46.99	-67.01	-13.00	54.01	Horizontal
6	5440.7500	44.66	32.46	-46.83	-64.97	-13.00	51.97	Horizontal

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1554.5000	46.19	24.66	-48.97	-73.38	-13.00	60.38	Vertical
2	2331.7500	45.27	27.00	-48.26	-71.25	-13.00	58.25	Vertical
3	3109.0000	44.98	28.62	-47.81	-69.47	-13.00	56.47	Vertical
4	3886.2500	44.64	29.32	-47.20	-68.50	-13.00	55.50	Vertical
5	4663.5000	44.58	30.59	-46.99	-67.08	-13.00	54.08	Vertical
6	5440.7500	45.29	32.46	-46.83	-64.34	-13.00	51.34	Vertical



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

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Test Band = B13_5M ANT13_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	1559.5000	47.46	24.68	-48.96	-72.08	-40.00	32.08	Horizontal
2	2339.2500	45.64	27.01	-48.26	-70.87	-13.00	57.87	Horizontal
3	3119.0000	44.83	28.62	-47.76	-69.57	-13.00	56.57	Horizontal
4	3898.7500	44.82	29.34	-47.16	-68.26	-13.00	55.26	Horizontal
5	4678.5000	44.74	30.63	-46.99	-66.88	-13.00	53.88	Horizontal
6	5458.2500	44.40	32.50	-46.88	-65.24	-13.00	52.24	Horizontal

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1559.5000	46.56	24.68	-48.96	-72.98	-40.00	32.98	Vertical
2	2339.2500	45.55	27.01	-48.26	-70.96	-13.00	57.96	Vertical
3	3119.0000	45.03	28.62	-47.76	-69.37	-13.00	56.37	Vertical
4	3898.7500	44.84	29.34	-47.16	-68.24	-13.00	55.24	Vertical
5	4678.5000	44.52	30.63	-46.99	-67.10	-13.00	54.10	Vertical
6	5458.2500	44.69	32.50	-46.88	-64.95	-13.00	51.95	Vertical



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Test Band = B13_5M ANT13_ 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	46.73	24.69	-48.96	-72.80	-40.00	32.80	Horizontal
2	2346.7500	45.02	27.03	-48.26	-71.47	-13.00	58.47	Horizontal
3	3129.0000	44.75	28.63	-47.71	-69.59	-13.00	56.59	Horizontal
4	3911.2500	44.16	29.36	-47.18	-68.92	-13.00	55.92	Horizontal
5	4693.5000	44.08	30.67	-46.98	-67.49	-13.00	54.49	Horizontal
6	5475.7500	44.23	32.54	-46.93	-65.42	-13.00	52.42	Horizontal

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1564.5000	45.54	24.69	-48.96	-73.99	-40.00	33.99	Vertical
2	2346.7500	45.11	27.03	-48.26	-71.38	-13.00	58.38	Vertical
3	3129.0000	44.61	28.63	-47.71	-69.73	-13.00	56.73	Vertical
4	3911.2500	44.47	29.36	-47.18	-68.61	-13.00	55.61	Vertical
5	4693.5000	44.52	30.67	-46.98	-67.05	-13.00	54.05	Vertical
6	5475.7500	44.73	32.54	-46.93	-64.92	-13.00	51.92	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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