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# Appendix B.6

## LTE Band 13



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

### 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	23.50	2.6	23.95	<=34.77	Pass		
			13	23.62	2.6	24.07	<=34.77	Pass		
			24	23.52	2.6	23.97	<=34.77	Pass		
		12	0	22.48	2.6	22.93	<=34.77	Pass		
			6	22.61	2.6	23.06	<=34.77	Pass		
			13	22.56	2.6	23.01	<=34.77	Pass		
		25	0	22.61	2.6	23.06	<=34.77	Pass		
		782	1	0	23.59	2.6	24.04	<=34.77	Pass	
				13	23.57	2.6	24.02	<=34.77	Pass	
	24			23.56	2.6	24.01	<=34.77	Pass		
	12		0	22.56	2.6	23.01	<=34.77	Pass		
			6	22.58	2.6	23.03	<=34.77	Pass		
			13	22.66	2.6	23.11	<=34.77	Pass		
	25		0	22.53	2.6	22.98	<=34.77	Pass		
	784.5		1	0	23.55	2.6	24	<=34.77	Pass	
				13	23.58	2.6	24.03	<=34.77	Pass	
		24		23.51	2.6	23.96	<=34.77	Pass		
		12	0	22.55	2.6	23	<=34.77	Pass		
			6	22.66	2.6	23.11	<=34.77	Pass		
			13	22.57	2.6	23.02	<=34.77	Pass		
		25	0	22.61	2.6	23.06	<=34.77	Pass		
		16QAM	779.5	1	0	22.83	2.6	23.28	<=34.77	Pass
					13	22.84	2.6	23.29	<=34.77	Pass
	24				22.83	2.6	23.28	<=34.77	Pass	
12	0			21.60	2.6	22.05	<=34.77	Pass		
	6			21.72	2.6	22.17	<=34.77	Pass		
	13			21.66	2.6	22.11	<=34.77	Pass		
25	0			21.57	2.6	22.02	<=34.77	Pass		
782	1			0	22.63	2.6	23.08	<=34.77	Pass	
				13	22.81	2.6	23.26	<=34.77	Pass	
			24	22.68	2.6	23.13	<=34.77	Pass		
	12		0	21.58	2.6	22.03	<=34.77	Pass		
			6	21.60	2.6	22.05	<=34.77	Pass		
			13	21.61	2.6	22.06	<=34.77	Pass		
	25		0	21.63	2.6	22.08	<=34.77	Pass		
	784.5		1	0	22.48	2.6	22.93	<=34.77	Pass	
				13	22.62	2.6	23.07	<=34.77	Pass	



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64QAM	779.5	12	24	22.51	2.6	22.96	<=34.77	Pass
			0	21.53	2.6	21.98	<=34.77	Pass
			6	21.65	2.6	22.1	<=34.77	Pass
		25	13	21.56	2.6	22.01	<=34.77	Pass
			0	21.66	2.6	22.11	<=34.77	Pass
			1	21.89	2.6	22.34	<=34.77	Pass
	782	1	13	21.95	2.6	22.4	<=34.77	Pass
			24	21.90	2.6	22.35	<=34.77	Pass
			0	20.70	2.6	21.15	<=34.77	Pass
		12	6	20.80	2.6	21.25	<=34.77	Pass
			13	20.80	2.6	21.25	<=34.77	Pass
			0	20.76	2.6	21.21	<=34.77	Pass
784.5	1	0	21.99	2.6	22.44	<=34.77	Pass	
		13	22.01	2.6	22.46	<=34.77	Pass	
		24	22.01	2.6	22.46	<=34.77	Pass	
	12	0	22.01	2.6	22.46	<=34.77	Pass	
		6	22.03	2.6	22.48	<=34.77	Pass	
		13	22.02	2.6	22.47	<=34.77	Pass	
25	1	0	22.01	2.6	22.46	<=34.77	Pass	
		13	21.78	2.6	22.23	<=34.77	Pass	
		24	21.76	2.6	22.21	<=34.77	Pass	
	12	0	21.78	2.6	22.23	<=34.77	Pass	
		6	21.79	2.6	22.24	<=34.77	Pass	
		13	21.78	2.6	22.23	<=34.77	Pass	
25	1	0	21.78	2.6	22.23	<=34.77	Pass	
		13	18.83	2.6	19.28	<=34.77	Pass	
		24	18.95	2.6	19.4	<=34.77	Pass	
	779.5	12	0	18.95	2.6	19.4	<=34.77	Pass
			6	18.75	2.6	19.2	<=34.77	Pass
			13	18.88	2.6	19.33	<=34.77	Pass
25		13	18.82	2.6	19.27	<=34.77	Pass	
		0	18.75	2.6	19.2	<=34.77	Pass	
		1	18.76	2.6	19.21	<=34.77	Pass	
782	1	0	18.76	2.6	19.21	<=34.77	Pass	
		13	18.91	2.6	19.36	<=34.77	Pass	
		24	18.82	2.6	19.27	<=34.77	Pass	
	12	0	18.72	2.6	19.17	<=34.77	Pass	
		6	18.83	2.6	19.28	<=34.77	Pass	
		13	18.82	2.6	19.27	<=34.77	Pass	
784.5	25	0	18.82	2.6	19.27	<=34.77	Pass	
		13	18.77	2.6	19.22	<=34.77	Pass	
		0	18.45	2.6	18.9	<=34.77	Pass	
	1	13	18.54	2.6	18.99	<=34.77	Pass	
		24	18.43	2.6	18.88	<=34.77	Pass	
		0	18.73	2.6	19.18	<=34.77	Pass	
12	6	18.82	2.6	19.27	<=34.77	Pass		
	13	18.77	2.6	19.22	<=34.77	Pass		
	0	18.78	2.6	19.23	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15



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## 1.2 B13\_10MHz\_ERP

### 1.2.1 Test Result

Band: 13 / Bandwidth: 10MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	782	1	0	23.58	2.6	24.03	<=34.77	Pass		
			25	23.57	2.6	24.02	<=34.77	Pass		
			49	23.49	2.6	23.94	<=34.77	Pass		
		25	0	22.64	2.6	23.09	<=34.77	Pass		
			13	22.60	2.6	23.05	<=34.77	Pass		
			25	22.62	2.6	23.07	<=34.77	Pass		
		50	0	22.58	2.6	23.03	<=34.77	Pass		
		16QAM	782	1	0	22.61	2.6	23.06	<=34.77	Pass
					25	22.62	2.6	23.07	<=34.77	Pass
49	22.55				2.6	23	<=34.77	Pass		
25	0			21.70	2.6	22.15	<=34.77	Pass		
	13			21.69	2.6	22.14	<=34.77	Pass		
	25			21.76	2.6	22.21	<=34.77	Pass		
50	0			21.63	2.6	22.08	<=34.77	Pass		
64QAM	782			1	0	21.73	2.6	22.18	<=34.77	Pass
					25	21.69	2.6	22.14	<=34.77	Pass
		49	21.69		2.6	22.14	<=34.77	Pass		
		25	0	21.68	2.6	22.13	<=34.77	Pass		
			13	21.66	2.6	22.11	<=34.77	Pass		
			25	21.68	2.6	22.13	<=34.77	Pass		
		50	0	21.68	2.6	22.13	<=34.77	Pass		
		256QAM	782	1	0	19.27	2.6	19.72	<=34.77	Pass
					25	19.25	2.6	19.7	<=34.77	Pass
49	19.29				2.6	19.74	<=34.77	Pass		
25	0			18.85	2.6	19.3	<=34.77	Pass		
	13			18.78	2.6	19.23	<=34.77	Pass		
	25			18.91	2.6	19.36	<=34.77	Pass		
50	0			18.83	2.6	19.28	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15



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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	3.55	2.189	0.0028	/	Pass	
					4.0	2.303	0.0030	/	Pass	
					4.4	3.905	0.0050	/	Pass	
				-30	4.0	0.916	0.0012	/	Pass	
					-20	4.0	2.289	0.0029	/	Pass
						-10	4.0	1.445	0.0019	/
				0	4.0	2.031	0.0026	/	Pass	
					10	4.0	0.658	0.0008	/	Pass
					30	4.0	2.103	0.0027	/	Pass
	40	4.0	1.245		0.0016	/	Pass			
	50	4.0	1.860		0.0024	/	Pass			
	782	25	0	20	3.55	1.903	0.0024	/	Pass	
					4.0	-0.458	-0.0006	/	Pass	
					4.4	0.172	0.0002	/	Pass	
				-30	4.0	1.287	0.0016	/	Pass	
					-20	4.0	0.300	0.0004	/	Pass
						-10	4.0	0.601	0.0008	/
				0	4.0	1.502	0.0019	/	Pass	
					10	4.0	0.043	0.0001	/	Pass
					30	4.0	0.830	0.0011	/	Pass
	40	4.0	-0.086		-0.0001	/	Pass			
	50	4.0	0.129		0.0002	/	Pass			
	784.5	25	0	20	3.55	2.604	0.0033	/	Pass	
					4.0	2.747	0.0035	/	Pass	
					4.4	1.917	0.0024	/	Pass	
				-30	4.0	2.832	0.0036	/	Pass	
					-20	4.0	0.916	0.0012	/	Pass
-10						4.0	1.245	0.0016	/	Pass
0				4.0	2.203	0.0028	/	Pass		
				10	4.0	0.315	0.0004	/	Pass	
				30	4.0	1.817	0.0023	/	Pass	
	40	4.0	1.702	0.0022	/	Pass				
	50	4.0	1.788	0.0023	/	Pass				
16QAM	779.5	25	0	20	3.55	0.772	0.0010	/	Pass	
					4.0	1.888	0.0024	/	Pass	
					4.4	0.372	0.0005	/	Pass	
				-30	4.0	0.658	0.0008	/	Pass	



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64QAM	782	25	0	-20	4.0	1.388	0.0018	/	Pass
				-10	4.0	1.745	0.0022	/	Pass
				0	4.0	0.372	0.0005	/	Pass
				10	4.0	0.472	0.0006	/	Pass
				30	4.0	0.243	0.0003	/	Pass
				40	4.0	0.372	0.0005	/	Pass
				50	4.0	-0.243	-0.0003	/	Pass
	784.5	25	0	20	3.55	1.802	0.0023	/	Pass
					4.0	0.529	0.0007	/	Pass
					4.4	1.588	0.0020	/	Pass
				-30	4.0	2.446	0.0031	/	Pass
				-20	4.0	1.230	0.0016	/	Pass
				-10	4.0	2.346	0.0030	/	Pass
				0	4.0	2.961	0.0038	/	Pass
				10	4.0	3.304	0.0042	/	Pass
				30	4.0	3.090	0.0040	/	Pass
				40	4.0	1.988	0.0025	/	Pass
	779.5	25	0	20	3.55	0.486	0.0006	/	Pass
					4.0	2.332	0.0030	/	Pass
					4.4	1.717	0.0022	/	Pass
				-30	4.0	1.273	0.0016	/	Pass
				-20	4.0	1.087	0.0014	/	Pass
				-10	4.0	1.545	0.0020	/	Pass
				0	4.0	0.515	0.0007	/	Pass
				10	4.0	0.701	0.0009	/	Pass
				30	4.0	1.616	0.0021	/	Pass
				40	4.0	0.257	0.0003	/	Pass
	782	25	0	20	3.55	2.446	0.0031	/	Pass
					4.0	3.848	0.0049	/	Pass
					4.4	3.576	0.0046	/	Pass
-30				4.0	2.575	0.0033	/	Pass	
-20				4.0	2.375	0.0030	/	Pass	
-10				4.0	2.389	0.0031	/	Pass	
0				4.0	2.131	0.0027	/	Pass	
10				4.0	2.518	0.0032	/	Pass	
30				4.0	1.588	0.0020	/	Pass	
40				4.0	2.375	0.0030	/	Pass	
782	25	0	20	3.55	-0.315	-0.0004	/	Pass	
				4.0	0.901	0.0012	/	Pass	
				4.4	-0.801	-0.0010	/	Pass	
			-30	4.0	0.100	0.0001	/	Pass	
			-20	4.0	0.272	0.0003	/	Pass	
			-10	4.0	0.157	0.0002	/	Pass	
			0	4.0	-0.973	-0.0012	/	Pass	
			10	4.0	1.101	0.0014	/	Pass	



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				30	4.0	-0.200	-0.0003	/	Pass			
				40	4.0	0.601	0.0008	/	Pass			
				50	4.0	0.443	0.0006	/	Pass			
				20	3.55	1.659	0.0021	/	Pass			
					4.0	1.774	0.0023	/	Pass			
					4.4	1.087	0.0014	/	Pass			
				-30	4.0	-0.601	-0.0008	/	Pass			
				-20	4.0	-0.072	-0.0001	/	Pass			
				-10	4.0	0.372	0.0005	/	Pass			
				0	4.0	0.272	0.0003	/	Pass			
				10	4.0	1.388	0.0018	/	Pass			
				30	4.0	1.574	0.0020	/	Pass			
				40	4.0	-0.157	-0.0002	/	Pass			
50	4.0	0.129	0.0002	/	Pass							
256QAM	779.5	25	0	20	3.55	2.117	0.0027	/	Pass			
					4.0	2.346	0.0030	/	Pass			
					4.4	1.202	0.0015	/	Pass			
				-30	4.0	1.874	0.0024	/	Pass			
				-20	4.0	1.702	0.0022	/	Pass			
				-10	4.0	2.446	0.0031	/	Pass			
				0	4.0	0.672	0.0009	/	Pass			
				10	4.0	0.958	0.0012	/	Pass			
				30	4.0	1.273	0.0016	/	Pass			
				40	4.0	1.831	0.0023	/	Pass			
				50	4.0	1.502	0.0019	/	Pass			
				782	25	0	20	3.55	-1.030	-0.0013	/	Pass
								4.0	-0.515	-0.0007	/	Pass
4.4	0.372	0.0005	/					Pass				
-30	4.0	0.415	0.0005				/	Pass				
-20	4.0	0.758	0.0010				/	Pass				
-10	4.0	0.243	0.0003				/	Pass				
0	4.0	-1.073	-0.0014				/	Pass				
10	4.0	-0.987	-0.0013				/	Pass				
30	4.0	-0.229	-0.0003				/	Pass				
40	4.0	0.257	0.0003				/	Pass				
784.5	25	0	20	3.55	0.486	0.0006	/	Pass				
				4.0	0.815	0.0010	/	Pass				
				4.4	0.987	0.0013	/	Pass				
			-30	4.0	-0.143	-0.0002	/	Pass				
			-20	4.0	-0.587	-0.0007	/	Pass				
			-10	4.0	0.257	0.0003	/	Pass				
			0	4.0	-0.472	-0.0006	/	Pass				
			10	4.0	0.200	0.0003	/	Pass				
			30	4.0	-0.100	-0.0001	/	Pass				
			40	4.0	0.172	0.0002	/	Pass				
50	4.0	0.873	0.0011	/	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	3.55	-0.072	-0.0001	/	Pass	
					4.0	-0.544	-0.0007	/	Pass	
					4.4	-0.200	-0.0003	/	Pass	
					-30	4.0	0.529	0.0007	/	Pass
					-20	4.0	0.944	0.0012	/	Pass
					-10	4.0	-0.129	-0.0002	/	Pass
					0	4.0	-0.358	-0.0005	/	Pass
					10	4.0	1.044	0.0013	/	Pass
					30	4.0	0.787	0.0010	/	Pass
					40	4.0	0.043	0.0001	/	Pass
50	4.0	-0.472	-0.0006	/	Pass					
16QAM	782	50	0	20	3.55	-0.100	-0.0001	/	Pass	
					4.0	1.531	0.0020	/	Pass	
					4.4	0.744	0.0010	/	Pass	
					-30	4.0	0.229	0.0003	/	Pass
					-20	4.0	0.830	0.0011	/	Pass
					-10	4.0	0.944	0.0012	/	Pass
					0	4.0	-0.887	-0.0011	/	Pass
					10	4.0	-0.415	-0.0005	/	Pass
					30	4.0	0.858	0.0011	/	Pass
					40	4.0	0.257	0.0003	/	Pass
50	4.0	1.330	0.0017	/	Pass					
64QAM	782	50	0	20	3.55	1.788	0.0023	/	Pass	
					4.0	1.445	0.0018	/	Pass	
					4.4	2.046	0.0026	/	Pass	
					-30	4.0	1.087	0.0014	/	Pass
					-20	4.0	1.988	0.0025	/	Pass
					-10	4.0	0.229	0.0003	/	Pass
					0	4.0	0.200	0.0003	/	Pass
					10	4.0	1.445	0.0018	/	Pass
					30	4.0	2.260	0.0029	/	Pass
					40	4.0	0.372	0.0005	/	Pass
50	4.0	0.629	0.0008	/	Pass					
256QAM	782	50	0	20	3.55	1.073	0.0014	/	Pass	
					4.0	1.688	0.0022	/	Pass	
					4.4	1.059	0.0014	/	Pass	
					-30	4.0	1.287	0.0016	/	Pass
					-20	4.0	0.715	0.0009	/	Pass
					-10	4.0	0.958	0.0012	/	Pass
0	4.0	0.658	0.0008	/	Pass					



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				10	4.0	-0.272	-0.0003	/	Pass
				30	4.0	0.100	0.0001	/	Pass
				40	4.0	1.073	0.0014	/	Pass
				50	4.0	1.845	0.0024	/	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	4.535	/	Pass
		782	25	0	4.539	/	Pass
		784.5	25	0	4.568	/	Pass
	16QAM	779.5	25	0	4.556	/	Pass
		782	25	0	4.557	/	Pass
		784.5	25	0	4.538	/	Pass
	64QAM	779.5	25	0	4.540	/	Pass
		782	25	0	4.557	/	Pass
		784.5	25	0	4.554	/	Pass
	256QAM	779.5	25	0	4.547	/	Pass
		782	25	0	4.561	/	Pass
		784.5	25	0	4.541	/	Pass
10	QPSK	782	50	0	9.007	/	Pass
	16QAM	782	50	0	9.006	/	Pass
	64QAM	782	50	0	9.000	/	Pass
	256QAM	782	50	0	9.003	/	Pass



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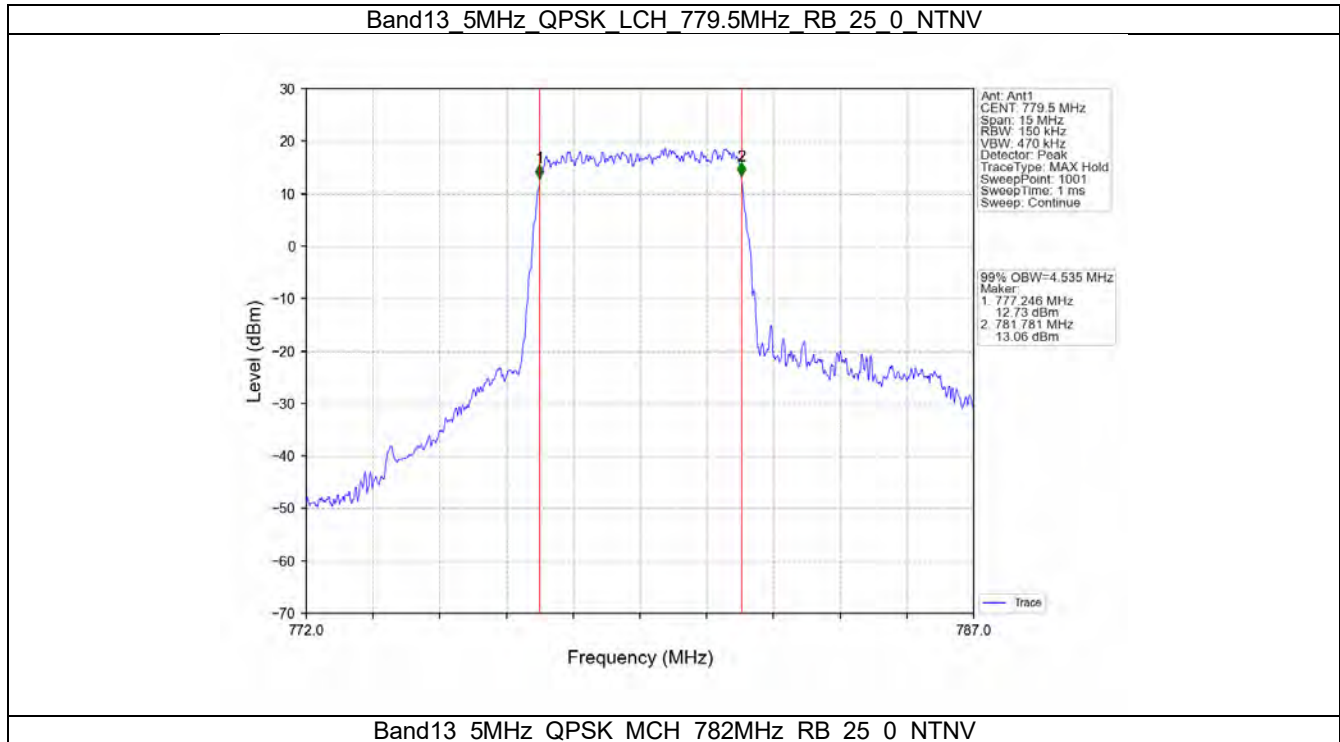
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3.1.2 Test Graph



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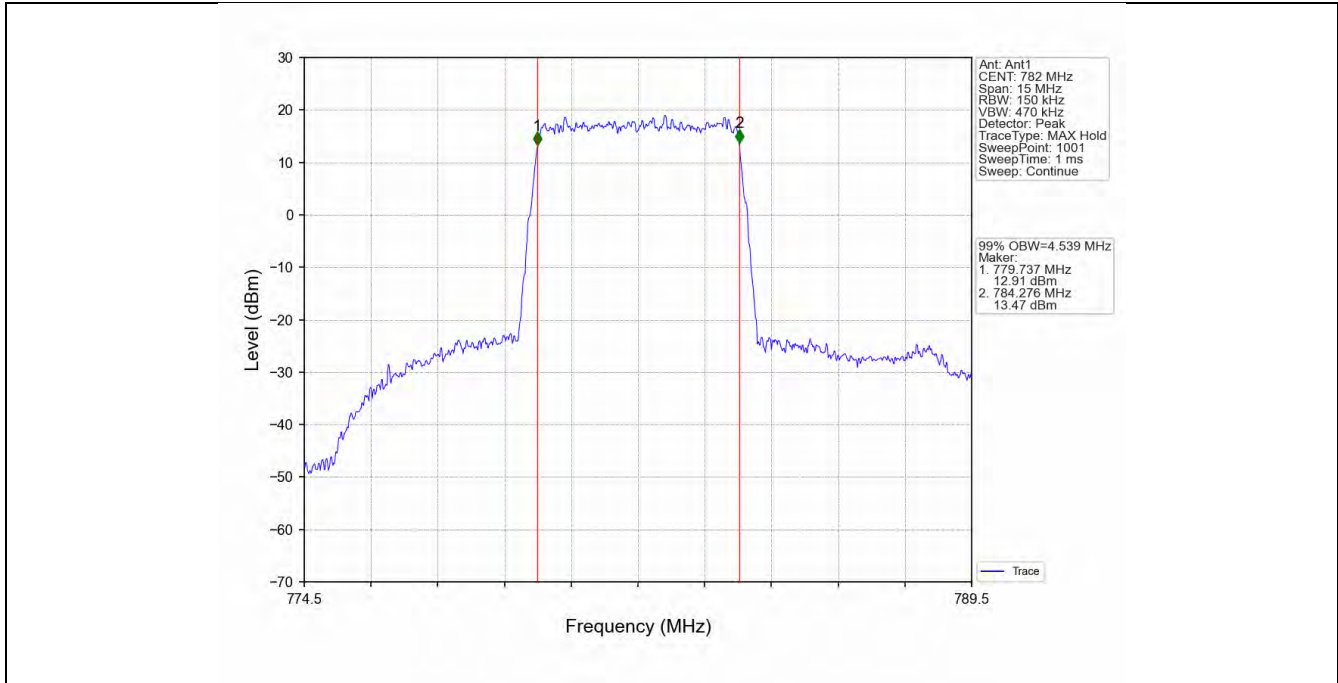


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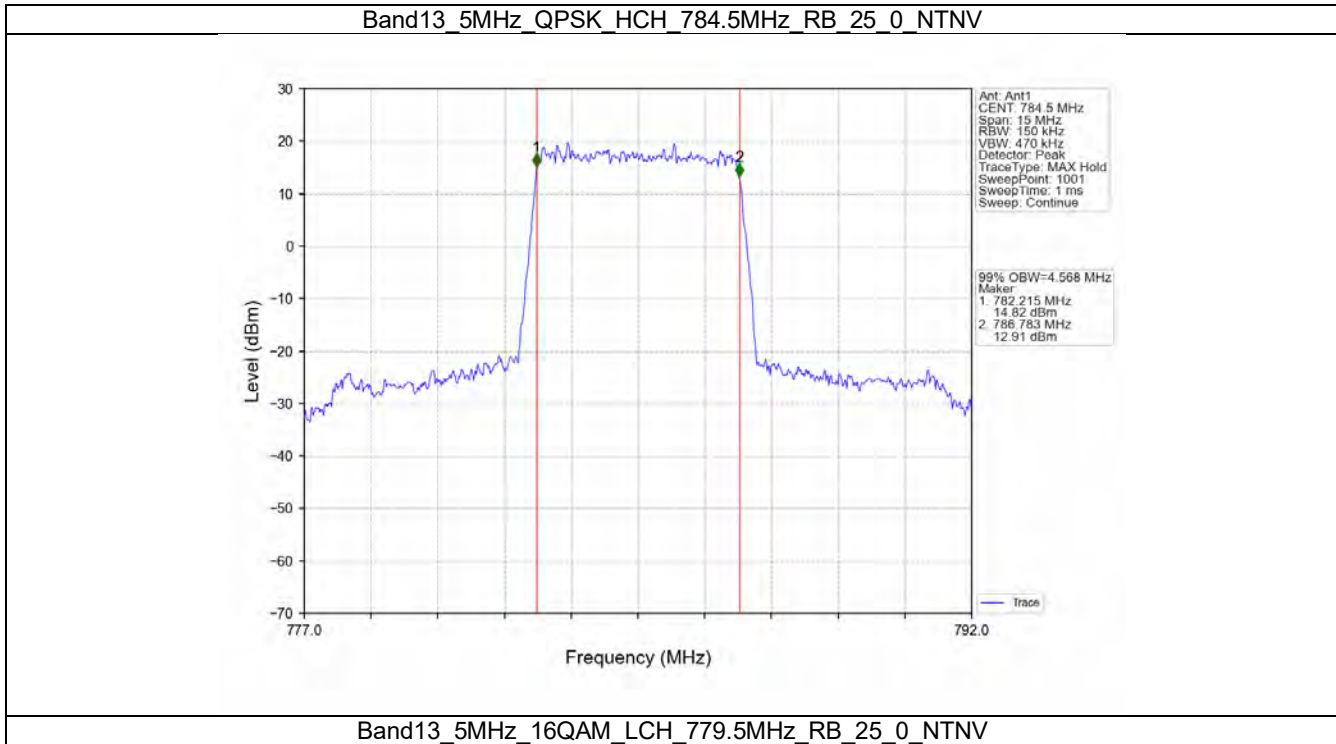


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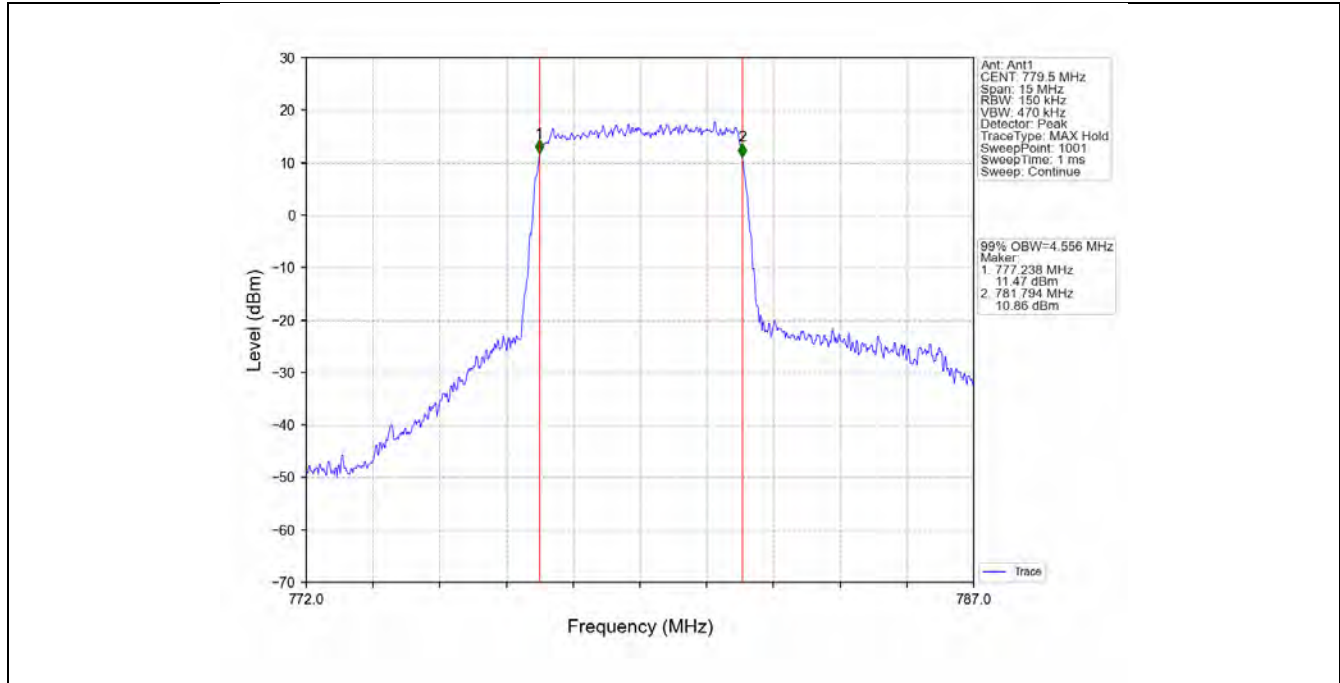


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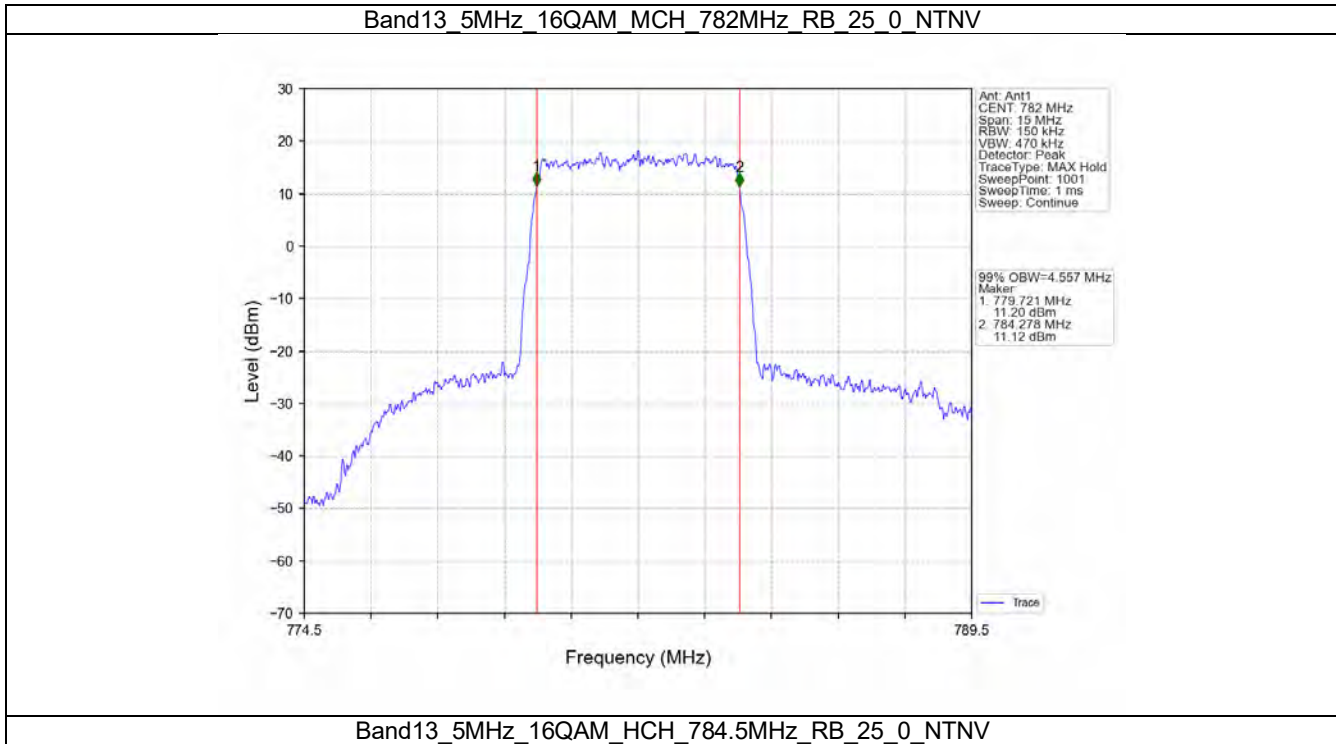


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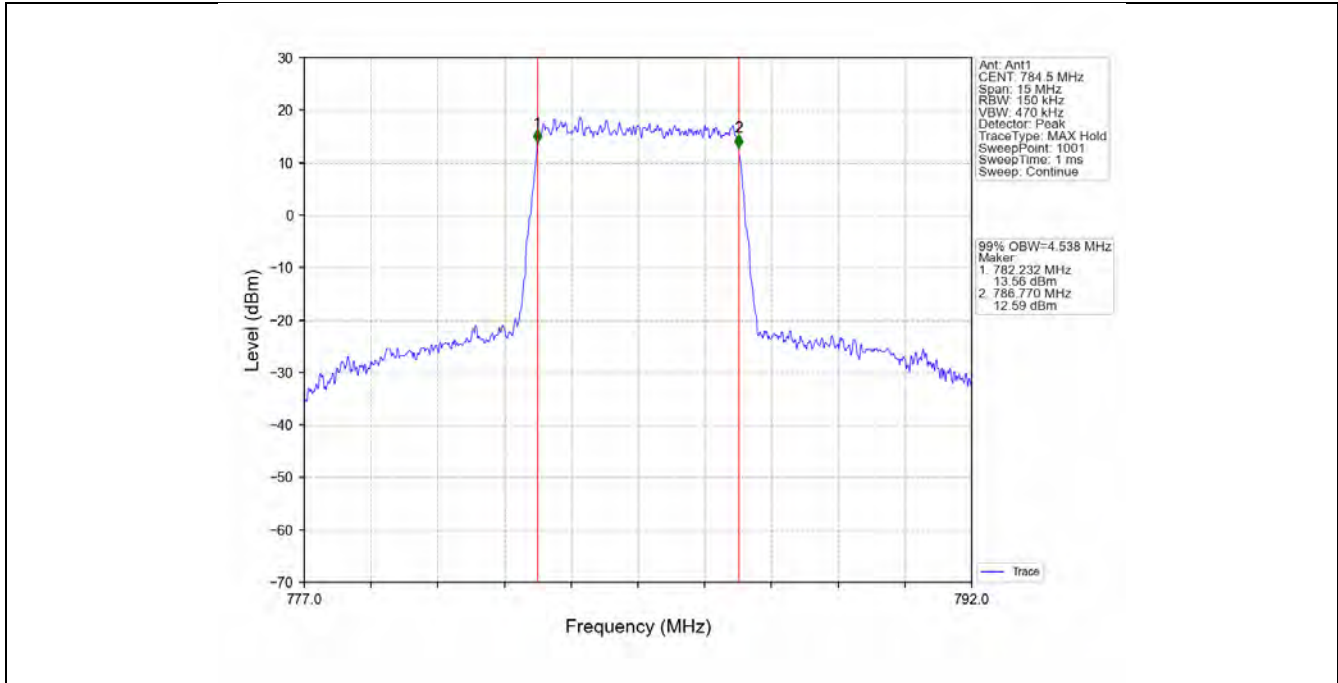


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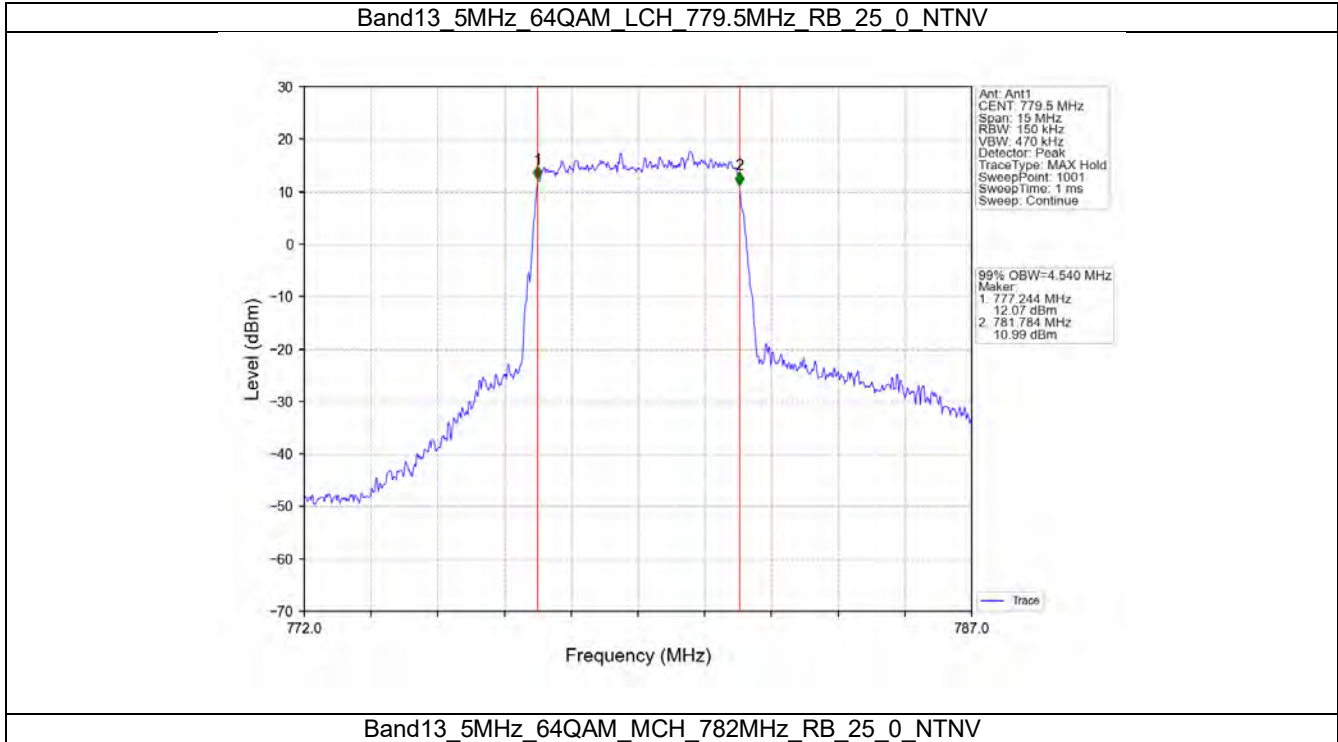


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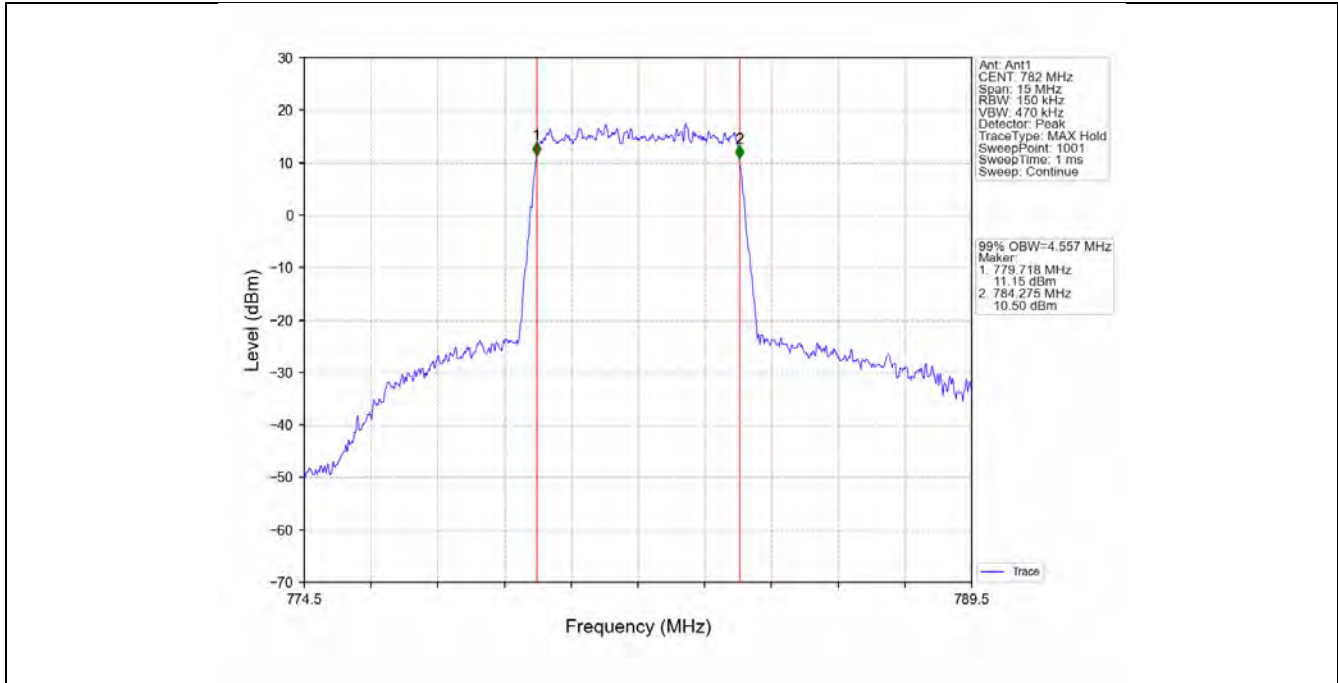


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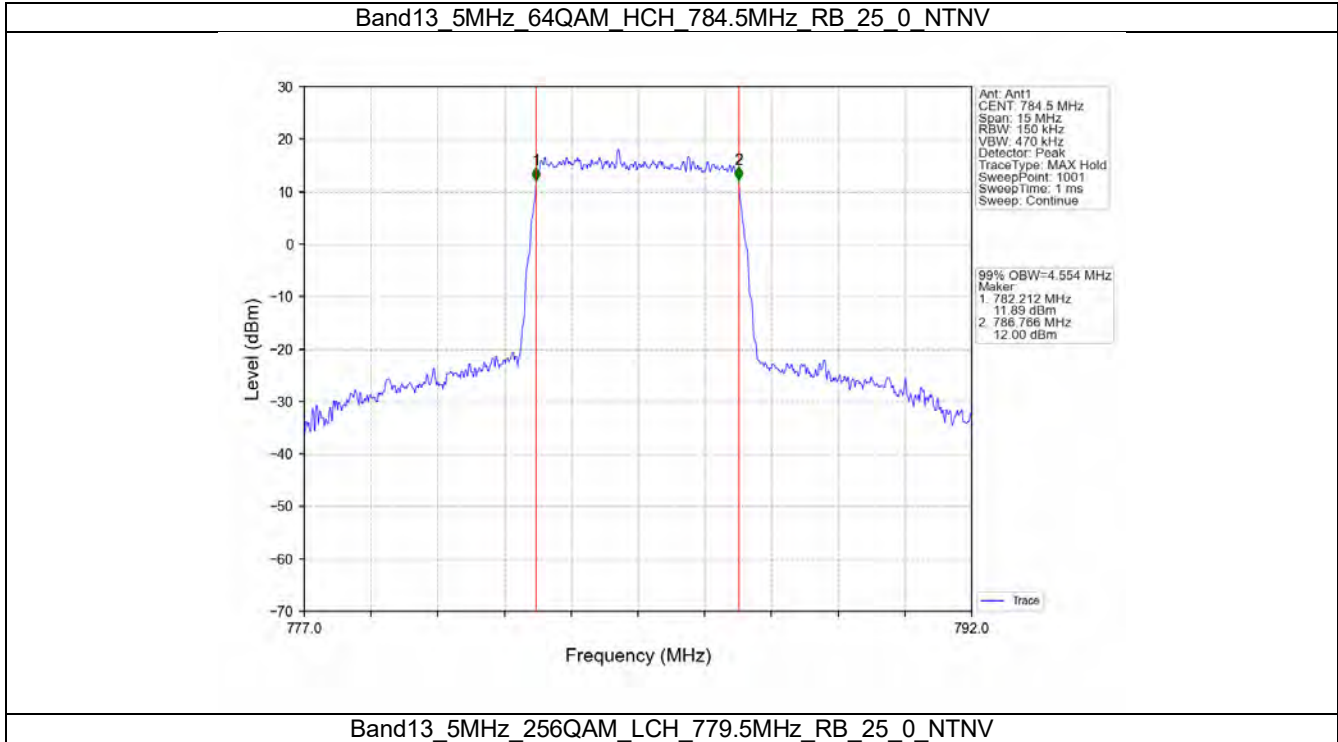


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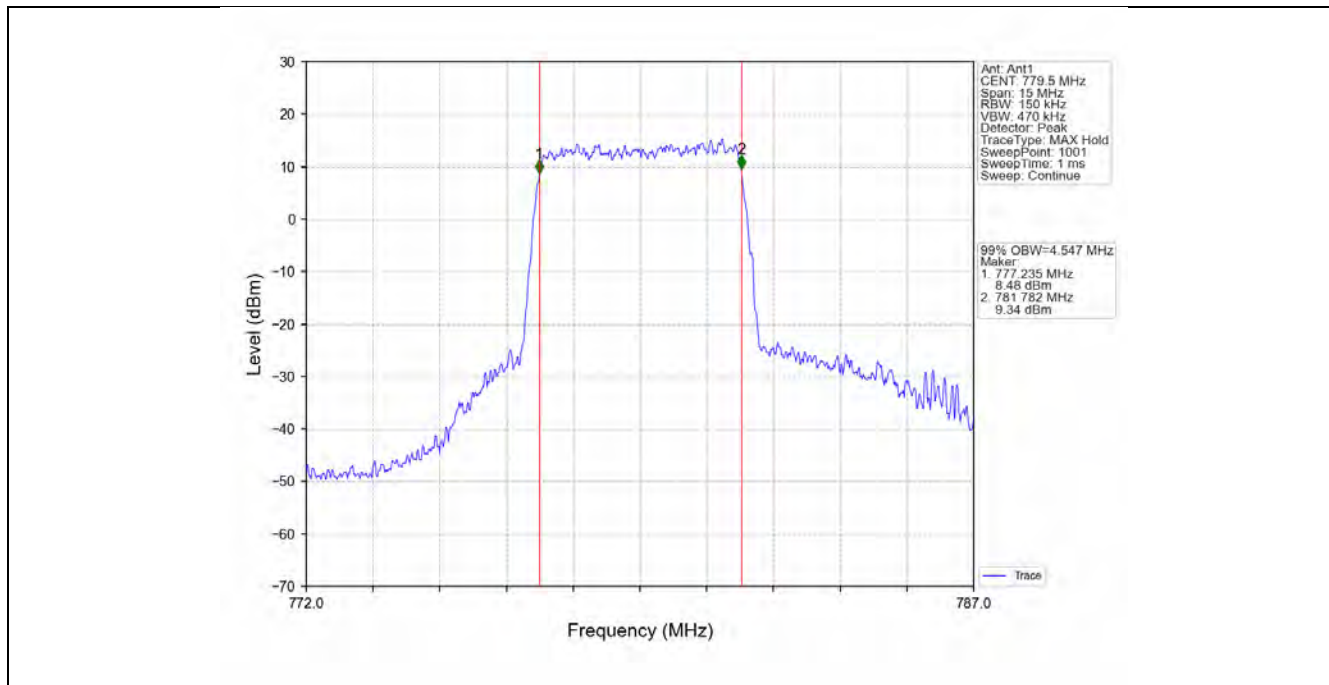
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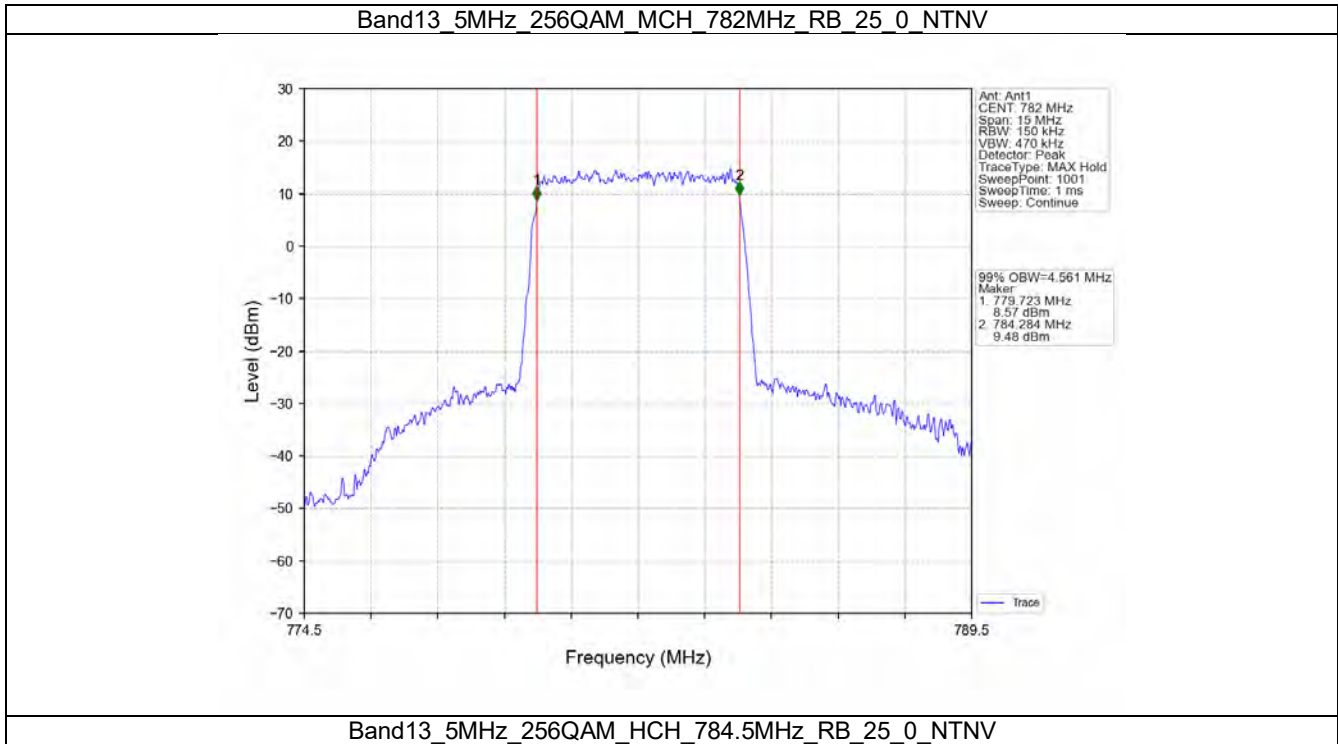


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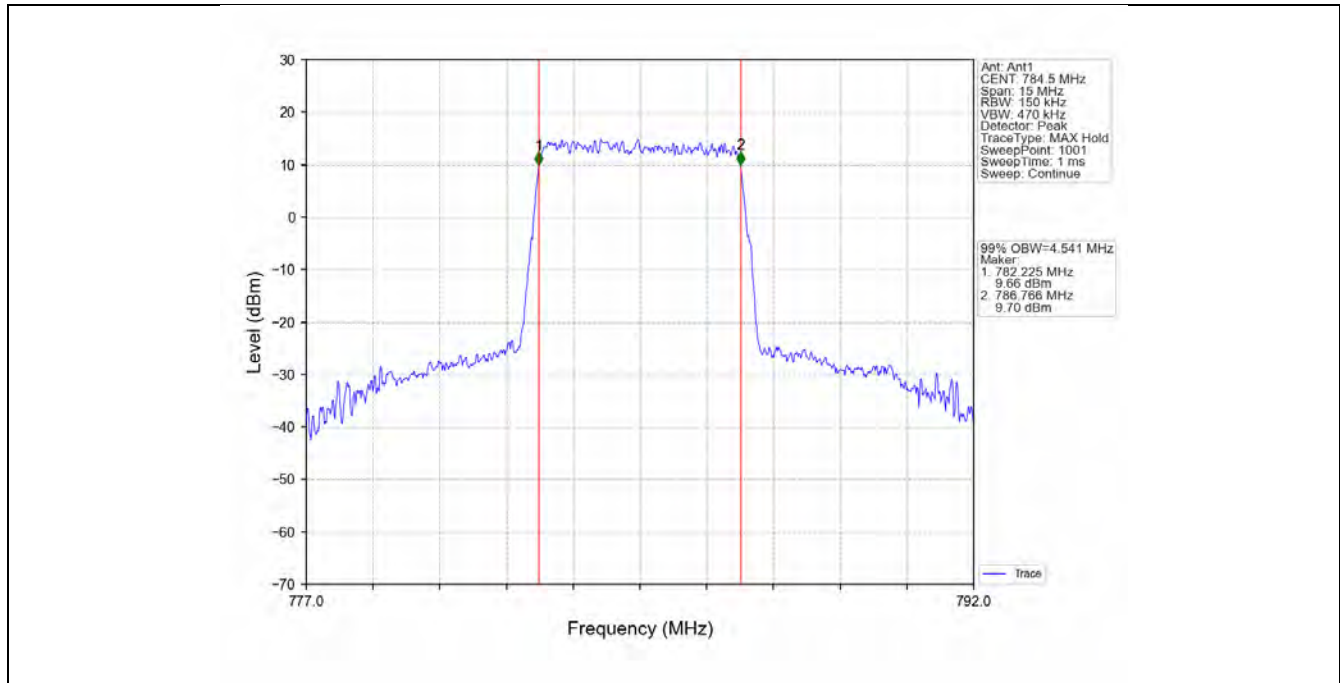


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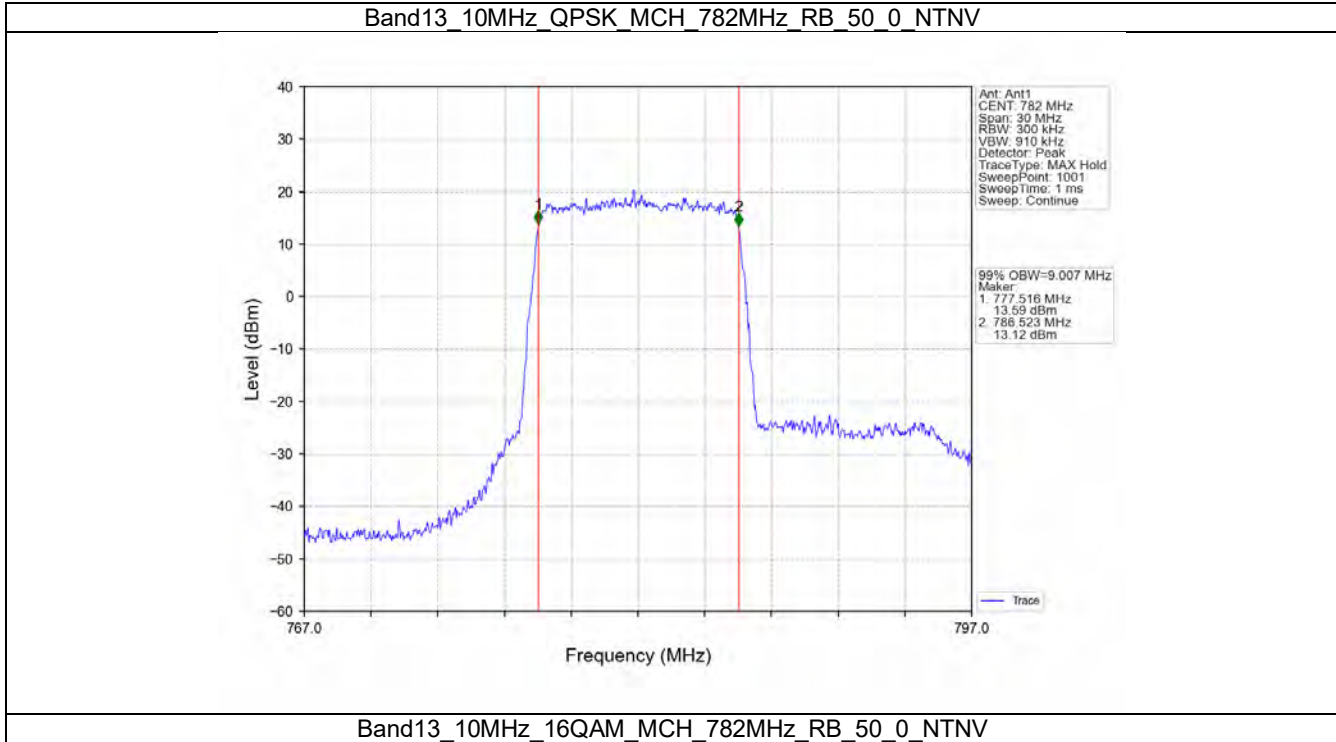


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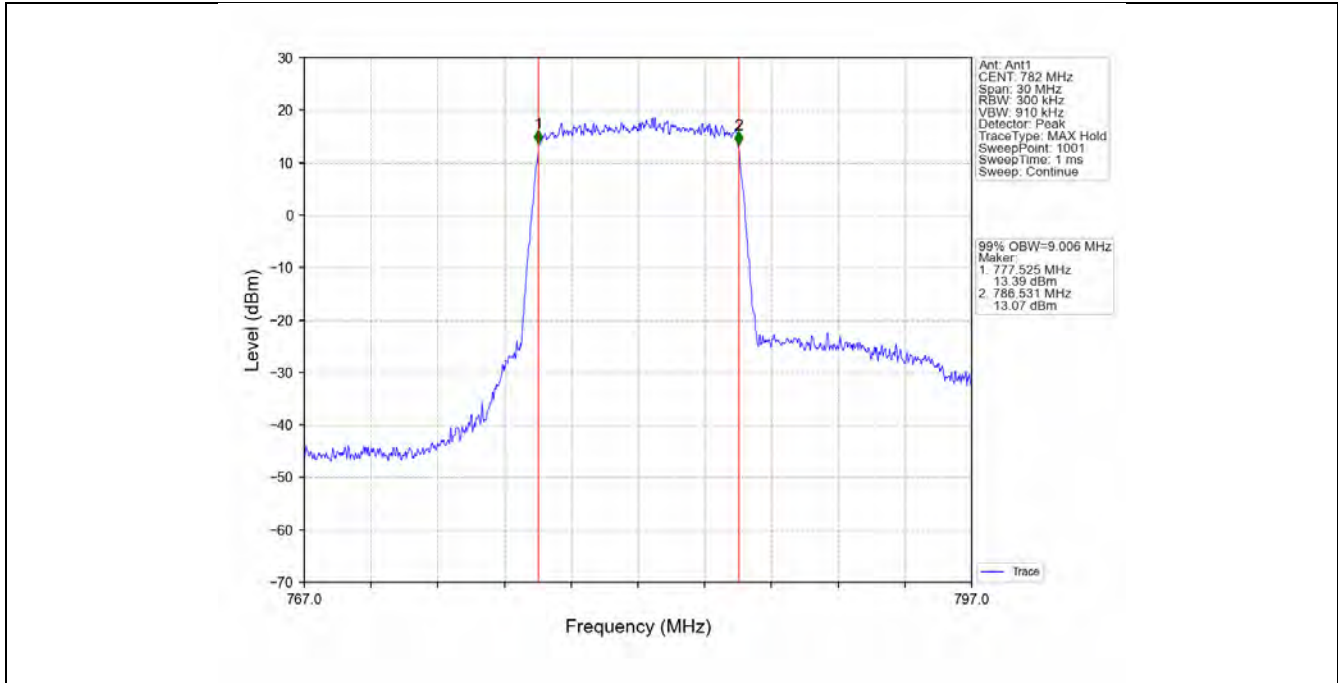


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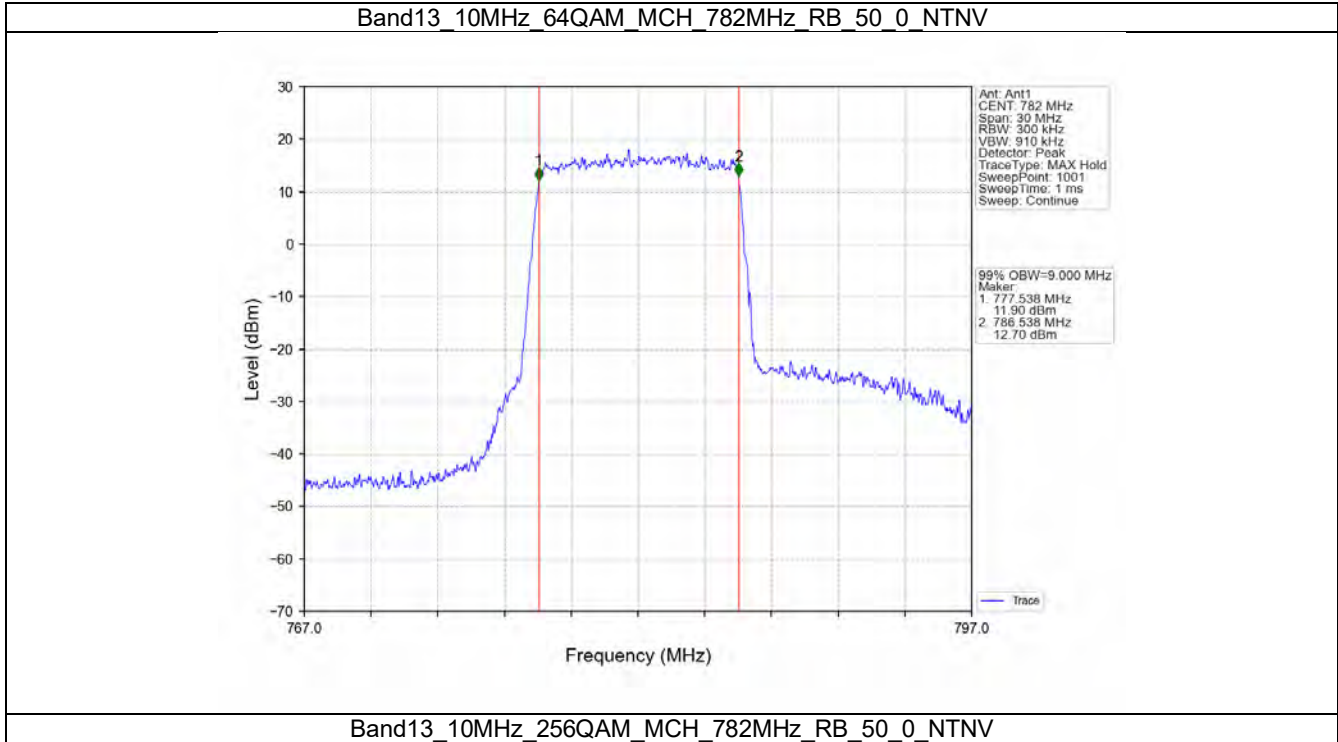


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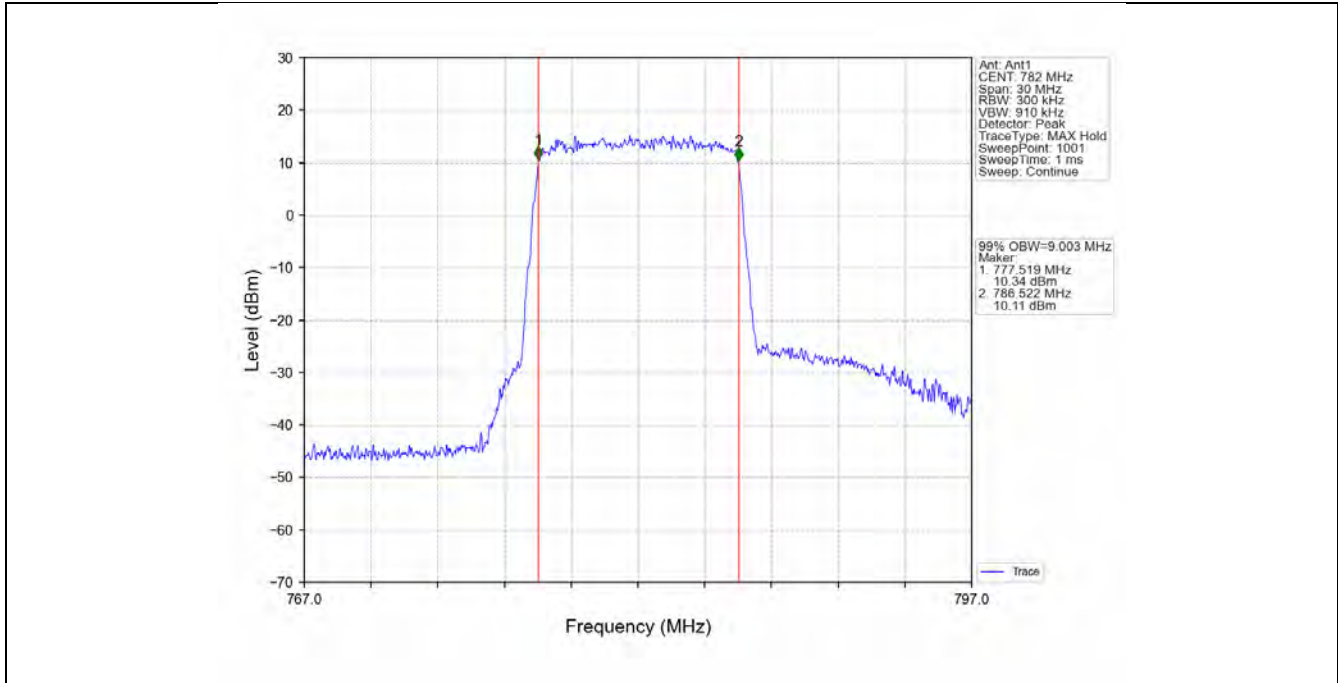


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## 3.2 Band13\_XDB

### 3.2.1 Test Result

Band: 13 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	779.5	25	0	5.031	/	Pass
		782	25	0	5.038	/	Pass
		784.5	25	0	5.037	/	Pass
	16QAM	779.5	25	0	5.029	/	Pass
		782	25	0	5.097	/	Pass
		784.5	25	0	5.027	/	Pass
	64QAM	779.5	25	0	5.020	/	Pass
		782	25	0	5.025	/	Pass
		784.5	25	0	5.025	/	Pass
	256QAM	779.5	25	0	5.053	/	Pass
		782	25	0	5.043	/	Pass
		784.5	25	0	5.056	/	Pass
10	QPSK	782	50	0	9.969	/	Pass
	16QAM	782	50	0	9.885	/	Pass
	64QAM	782	50	0	9.884	/	Pass
	256QAM	782	50	0	9.939	/	Pass



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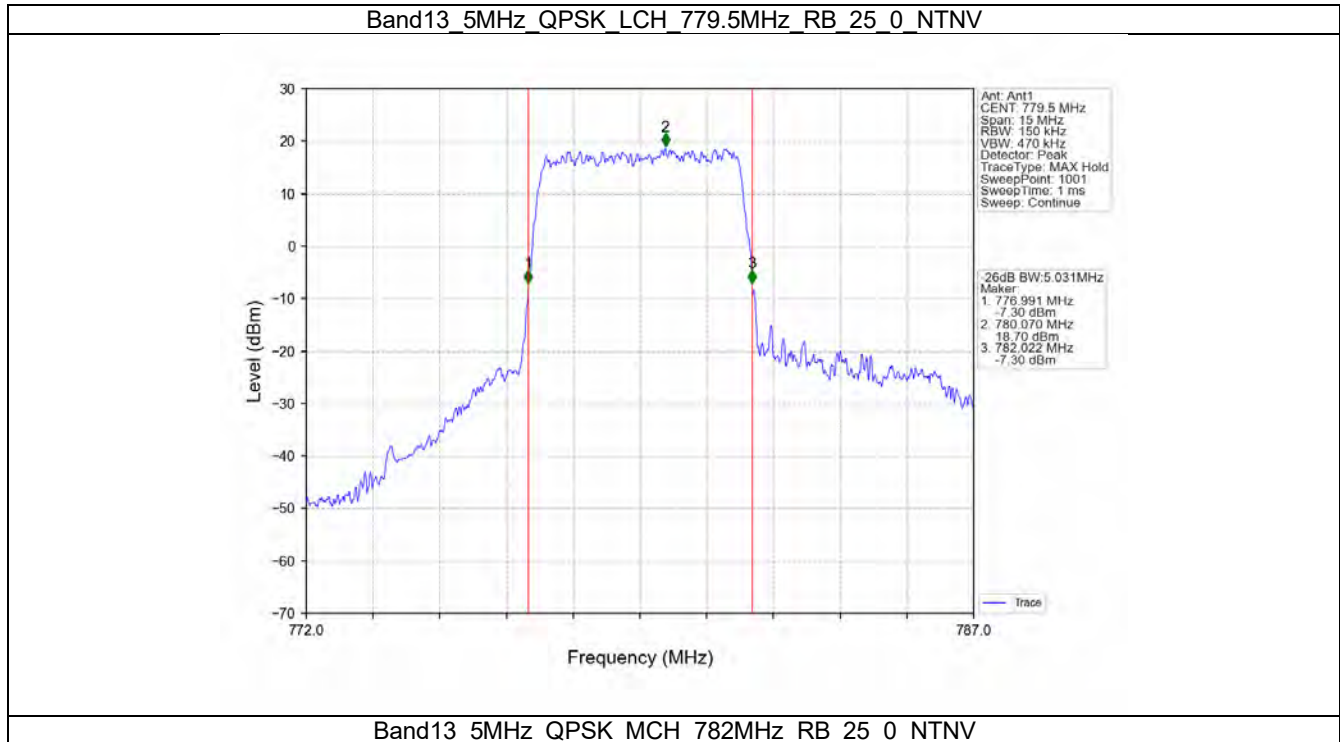
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3.2.2 Test Graph



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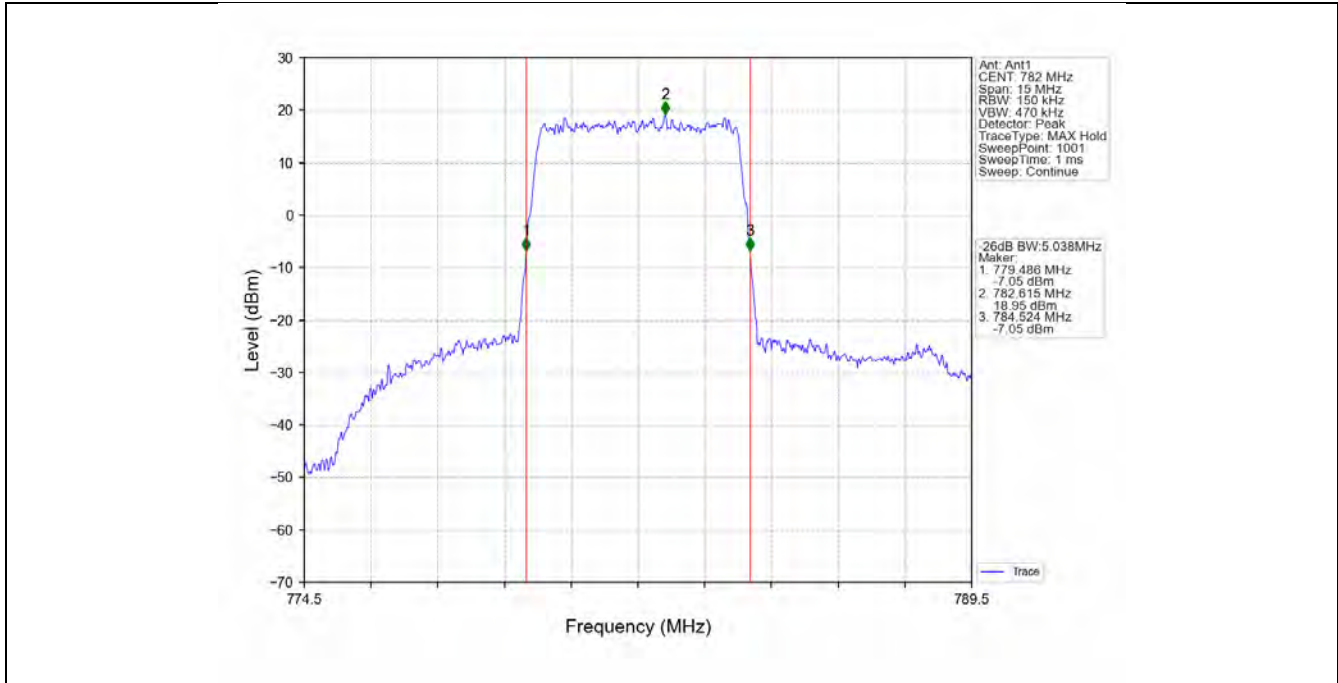


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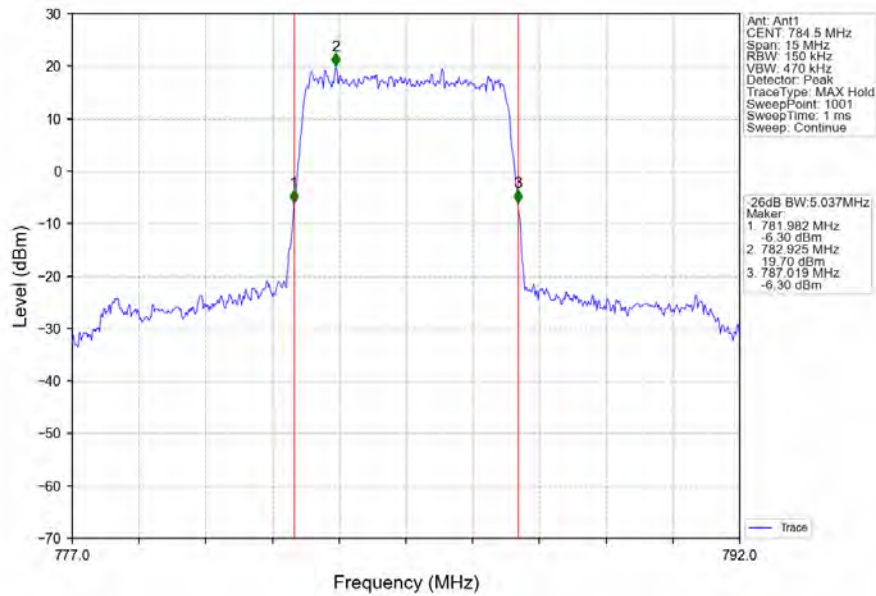
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Band13\_5MHz\_QPSK\_HCH\_784.5MHz\_RB\_25\_0\_NTNV



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



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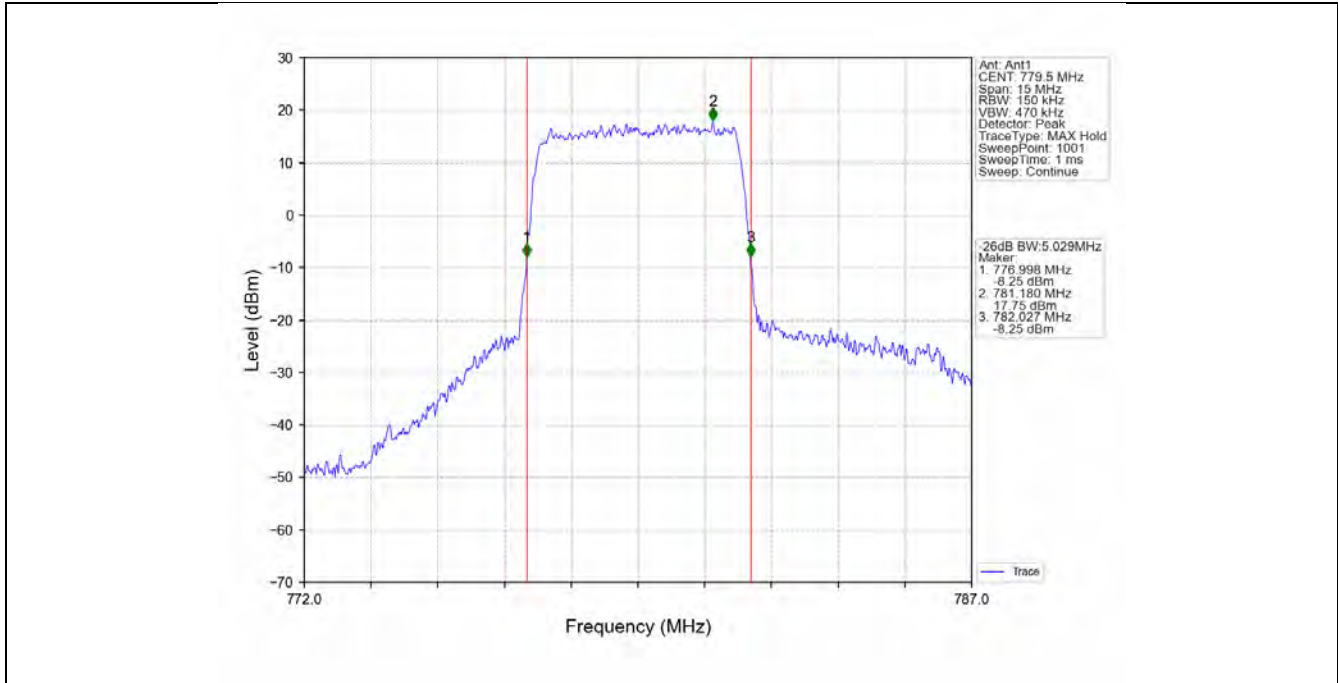


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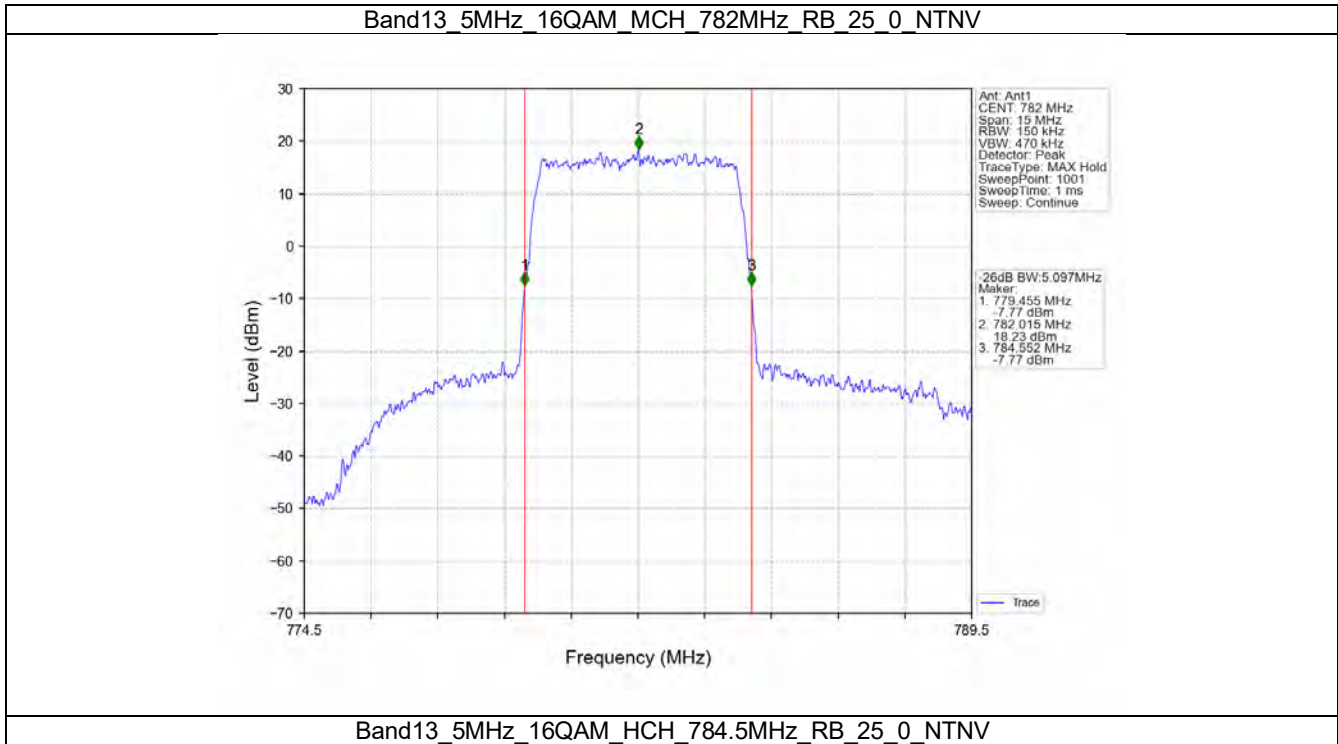


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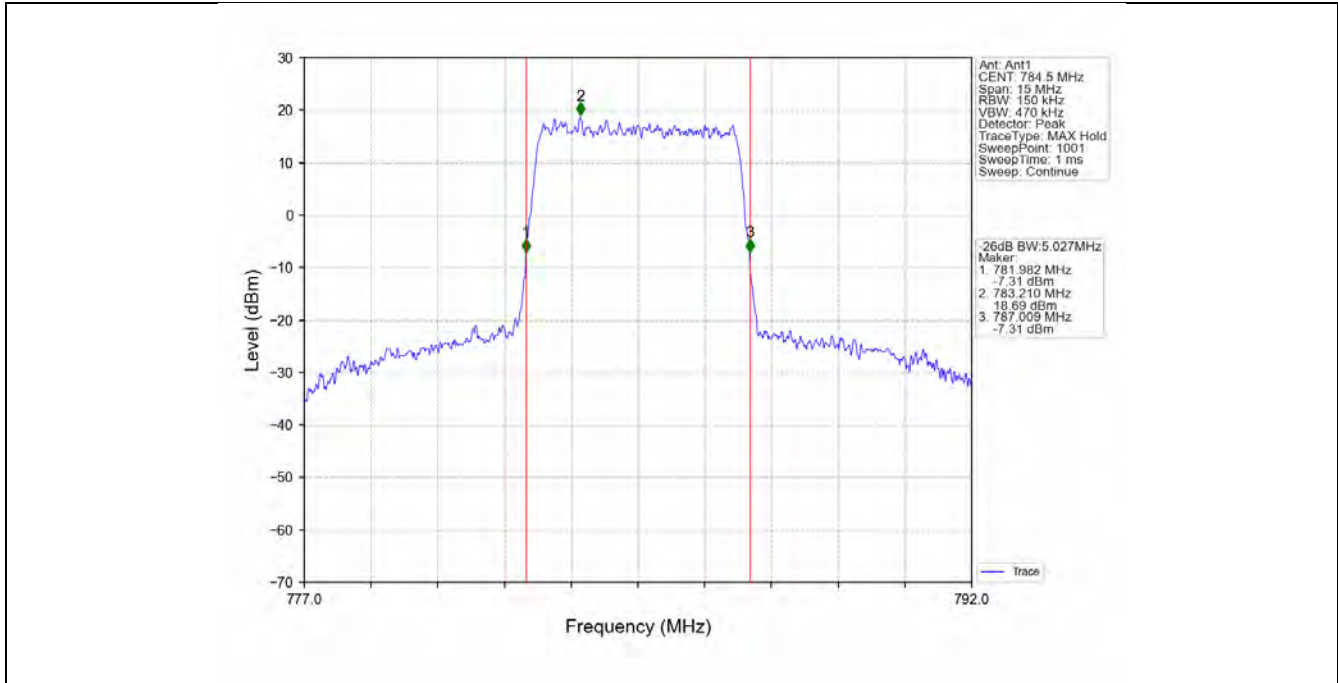


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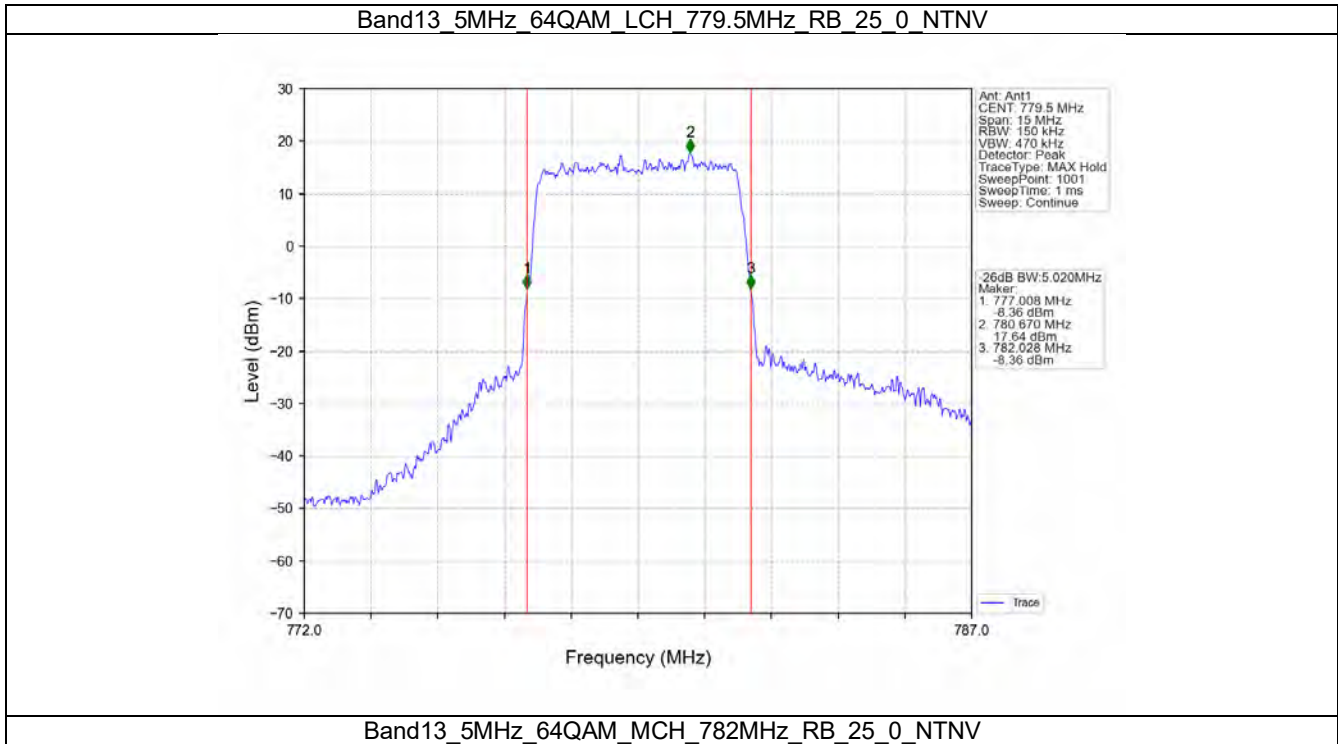


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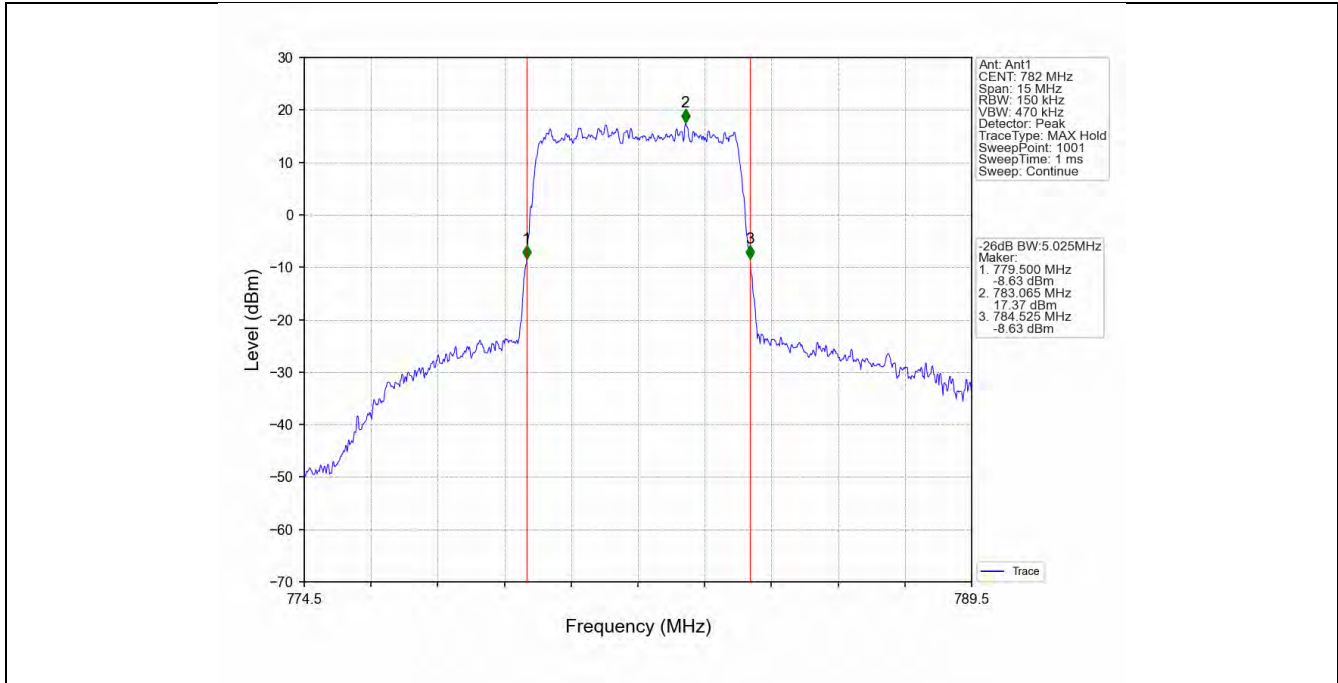


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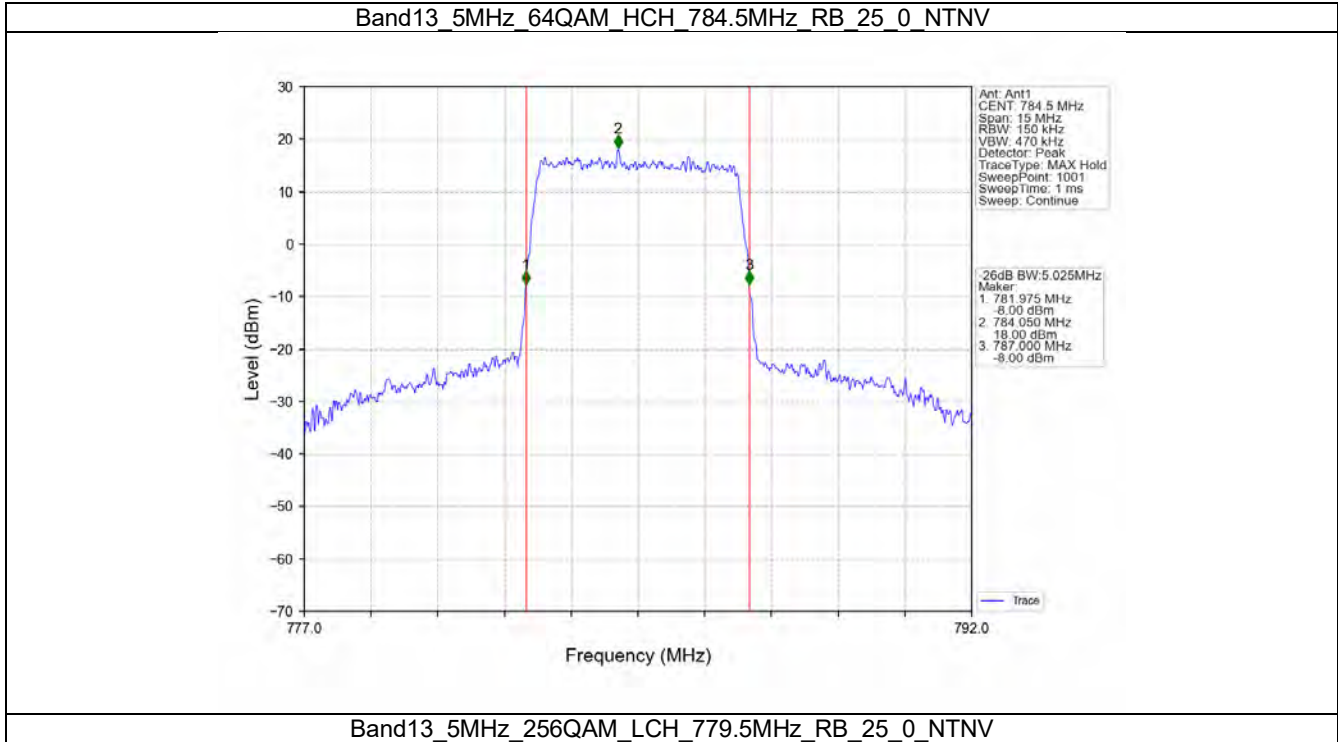


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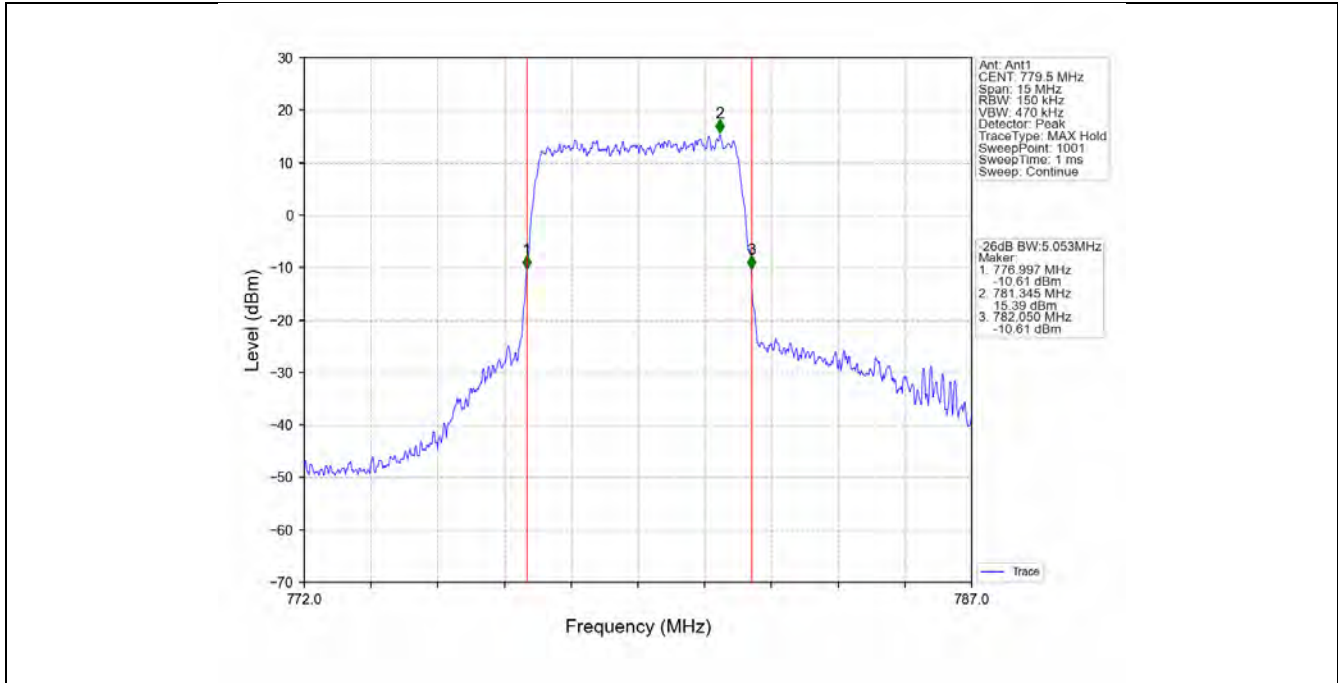


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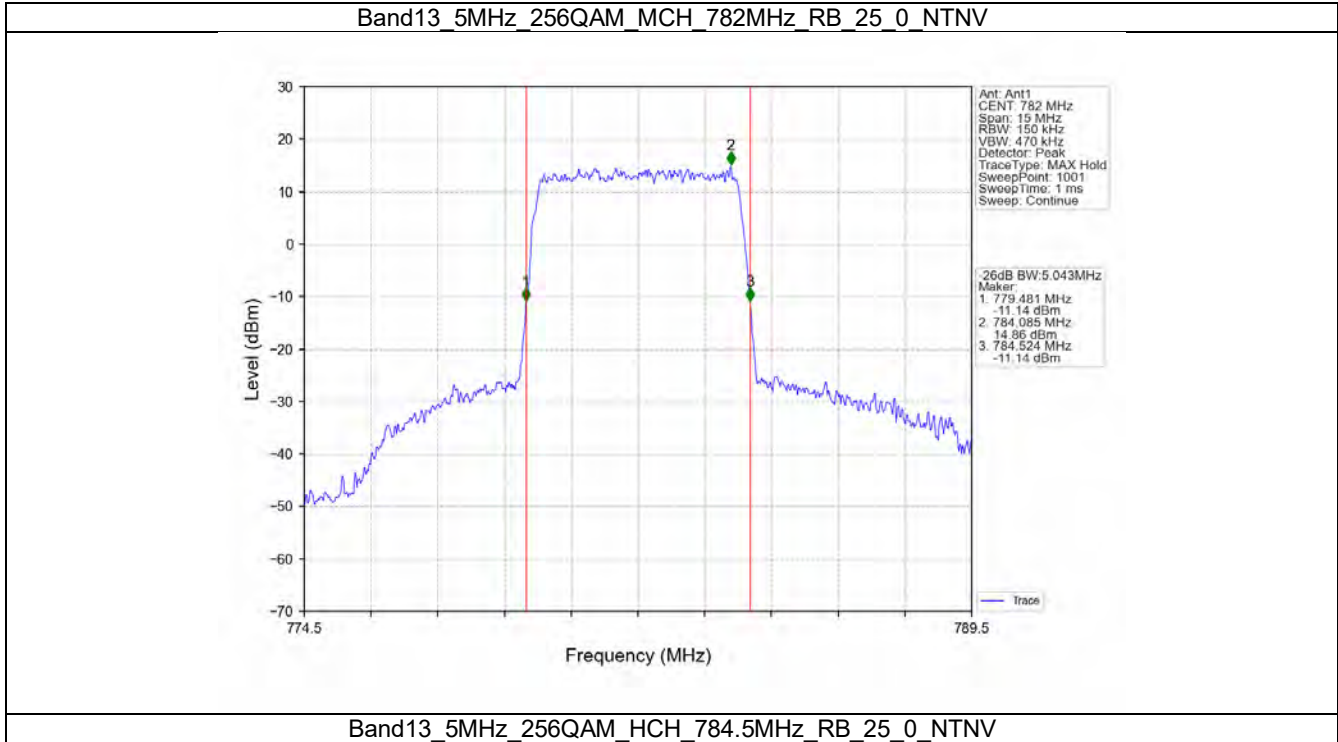


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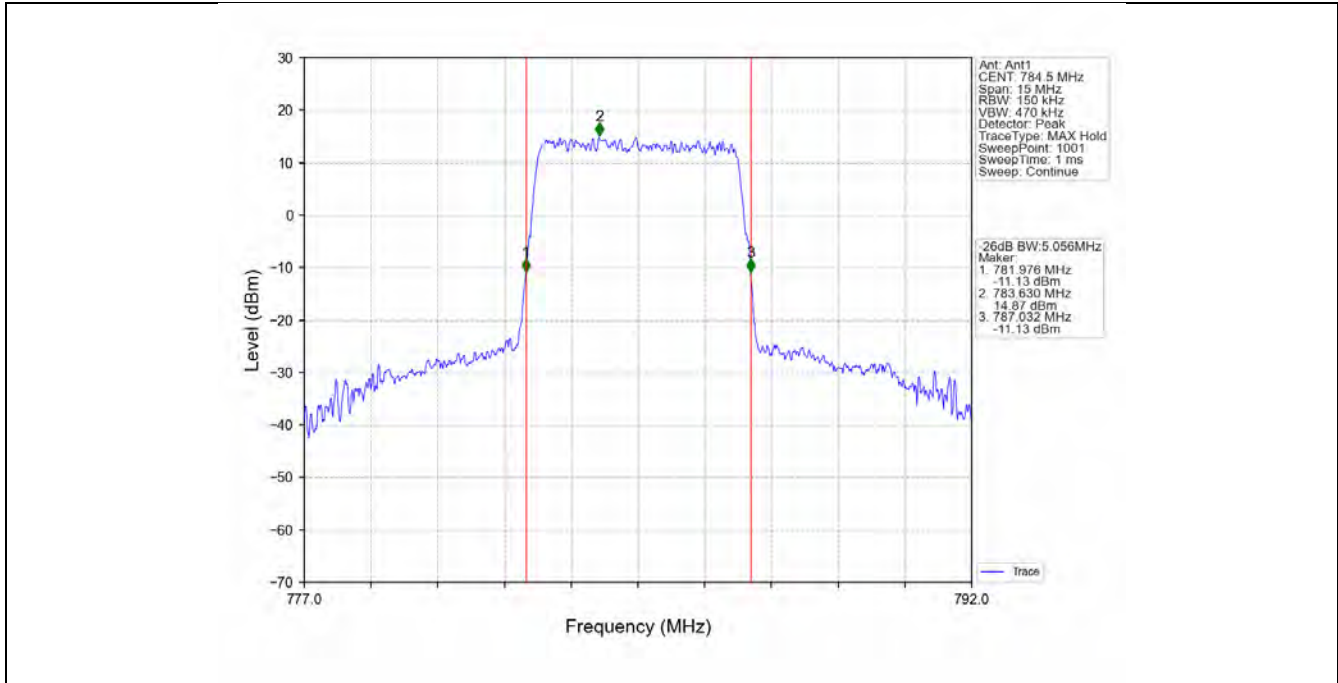


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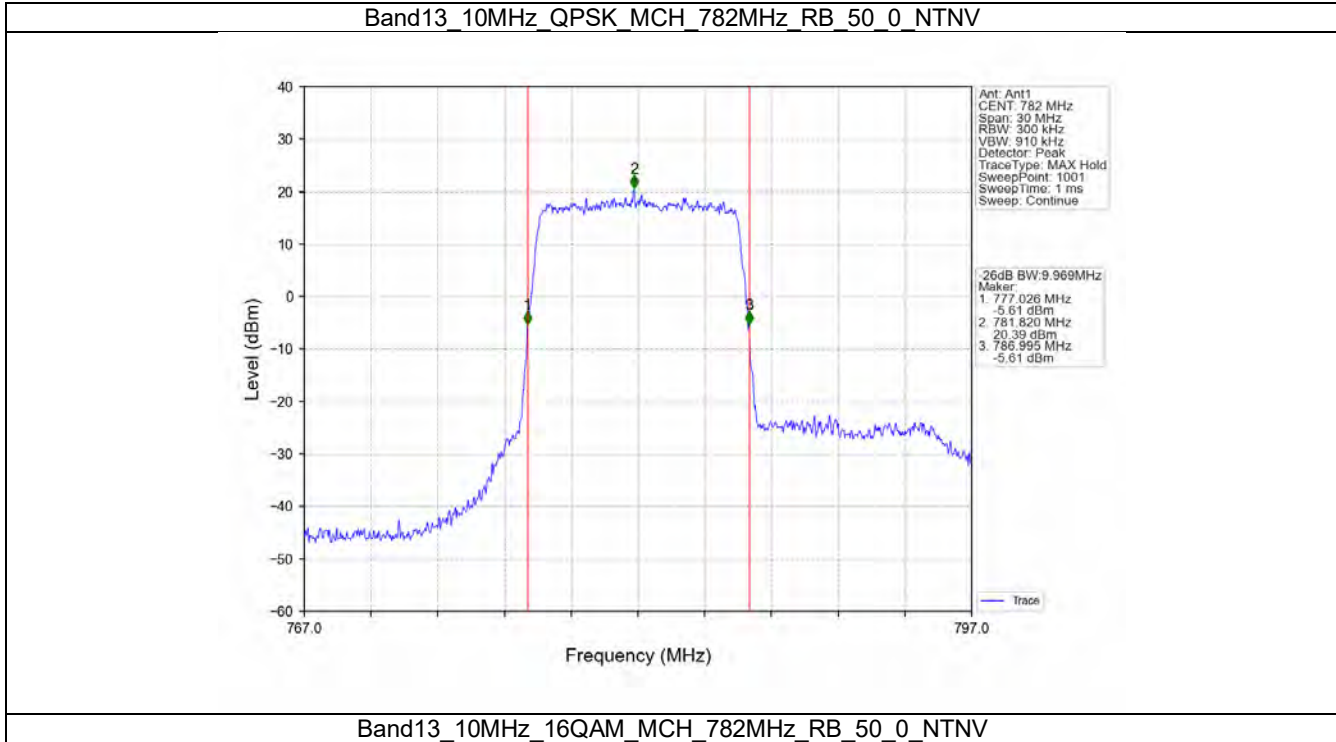


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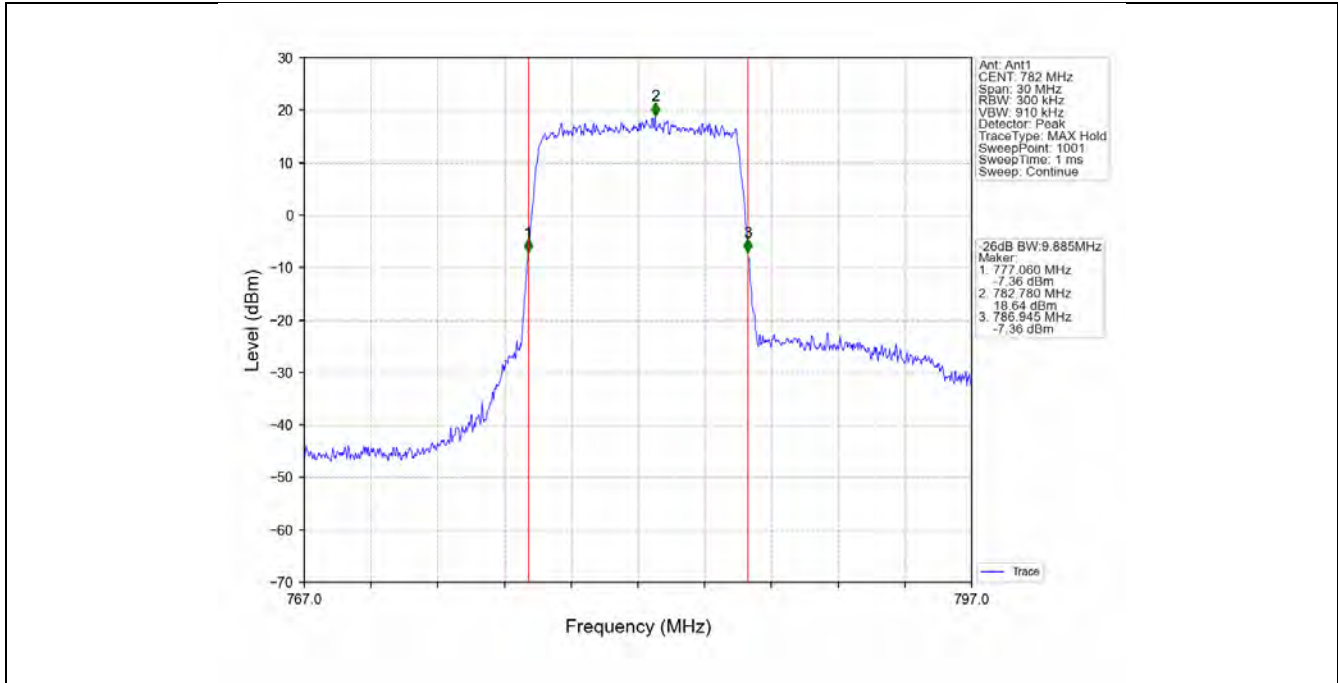


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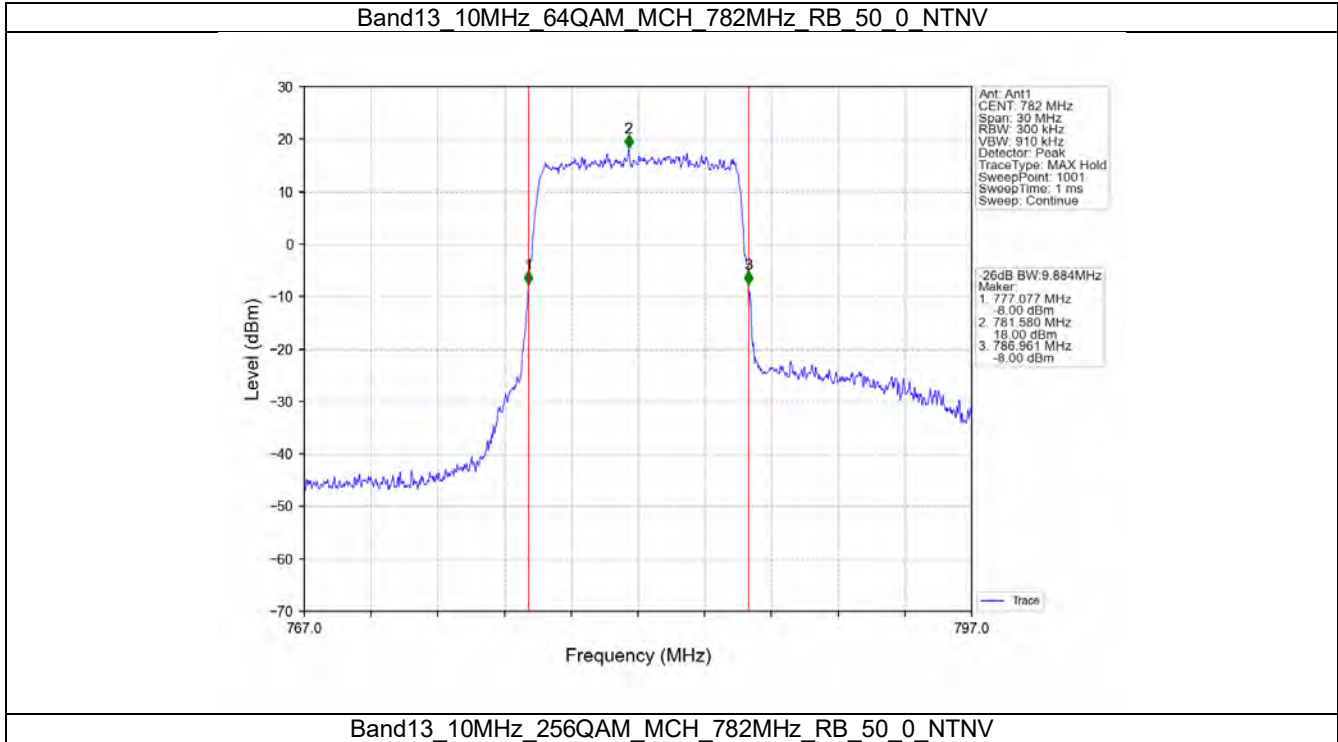


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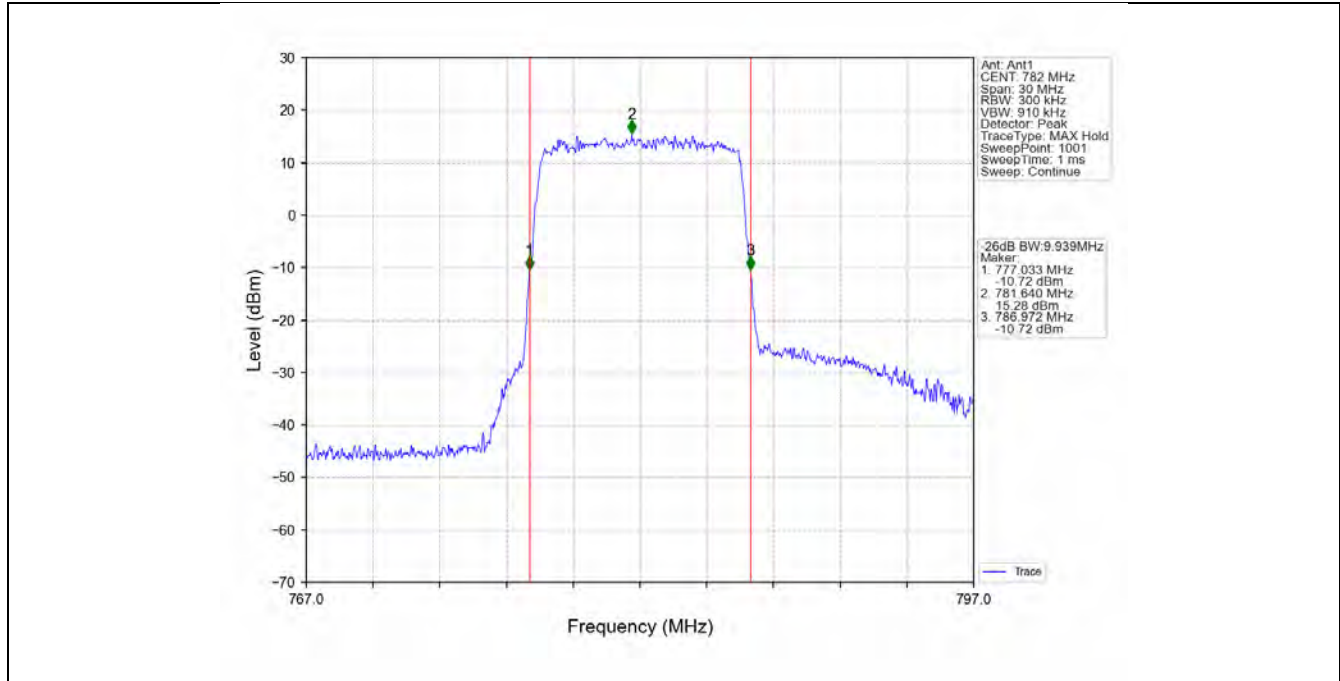


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## 4. Peak-Average Ratio

### 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	5.14	<=13	Pass
	782	25	0	5.15	<=13	Pass
	784.5	25	0	5.19	<=13	Pass
16QAM	779.5	25	0	5.96	<=13	Pass
	782	25	0	5.94	<=13	Pass
	784.5	25	0	6.04	<=13	Pass
64QAM	779.5	25	0	6.72	<=13	Pass
	782	25	0	6.71	<=13	Pass
	784.5	25	0	6.72	<=13	Pass
256QAM	779.5	25	0	6.93	<=13	Pass
	782	25	0	6.90	<=13	Pass
	784.5	25	0	6.96	<=13	Pass



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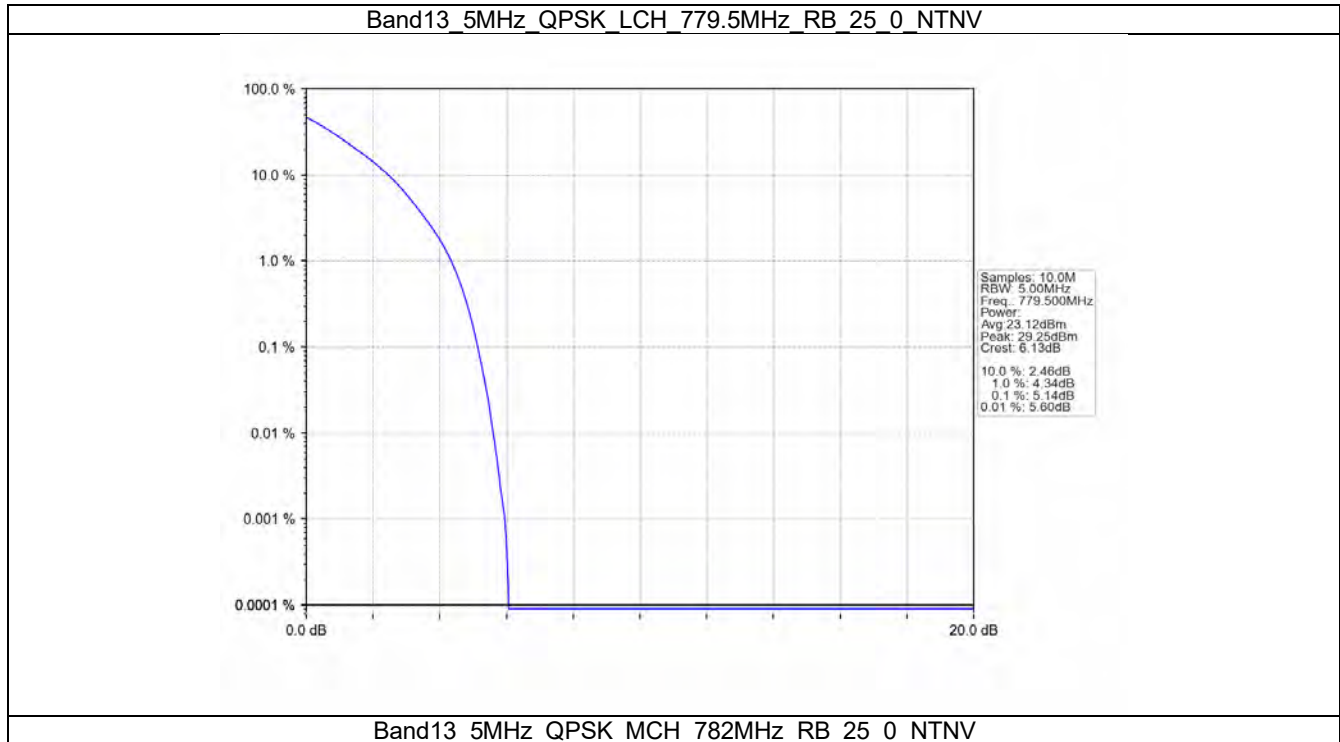
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4.1.2 Test Graph



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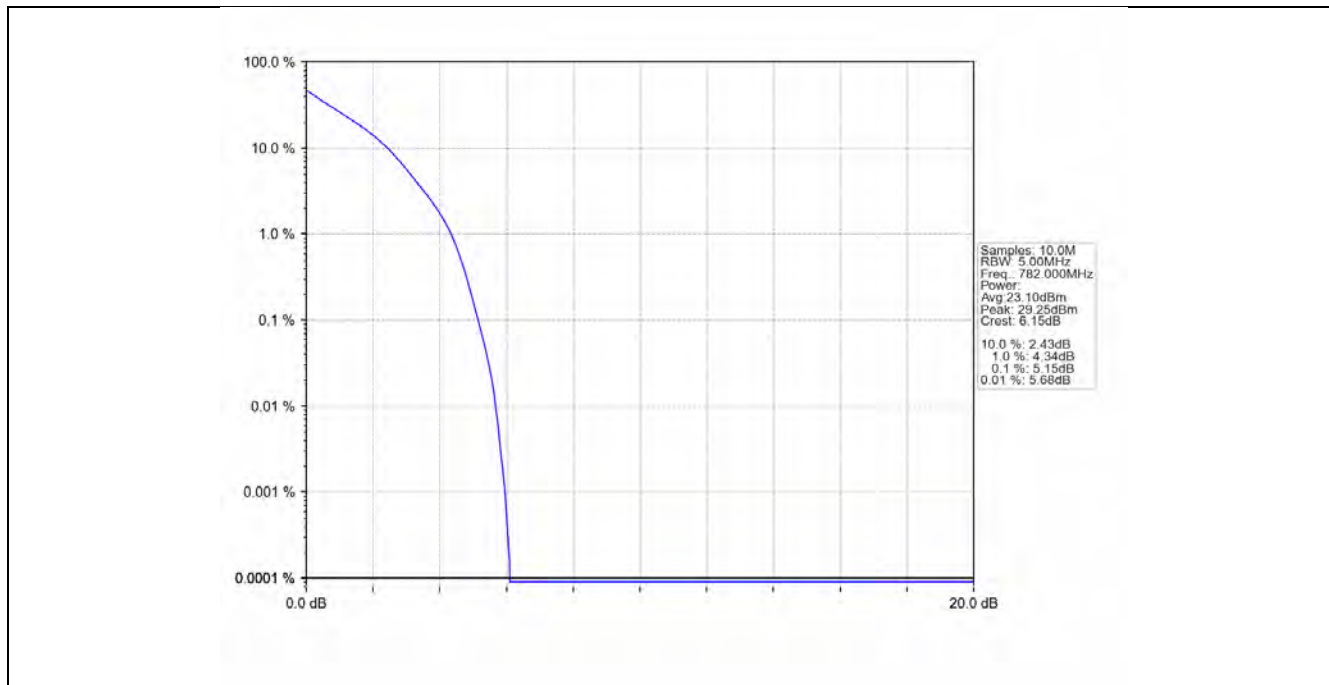
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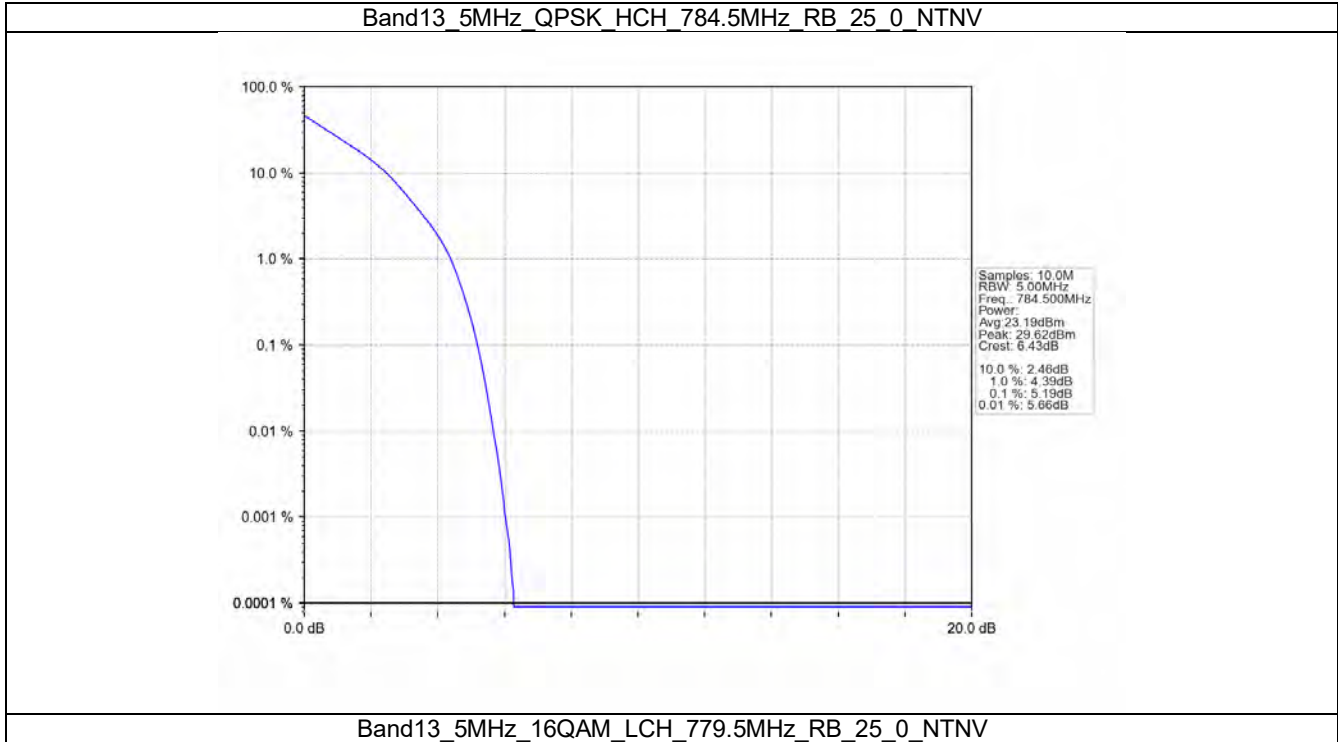
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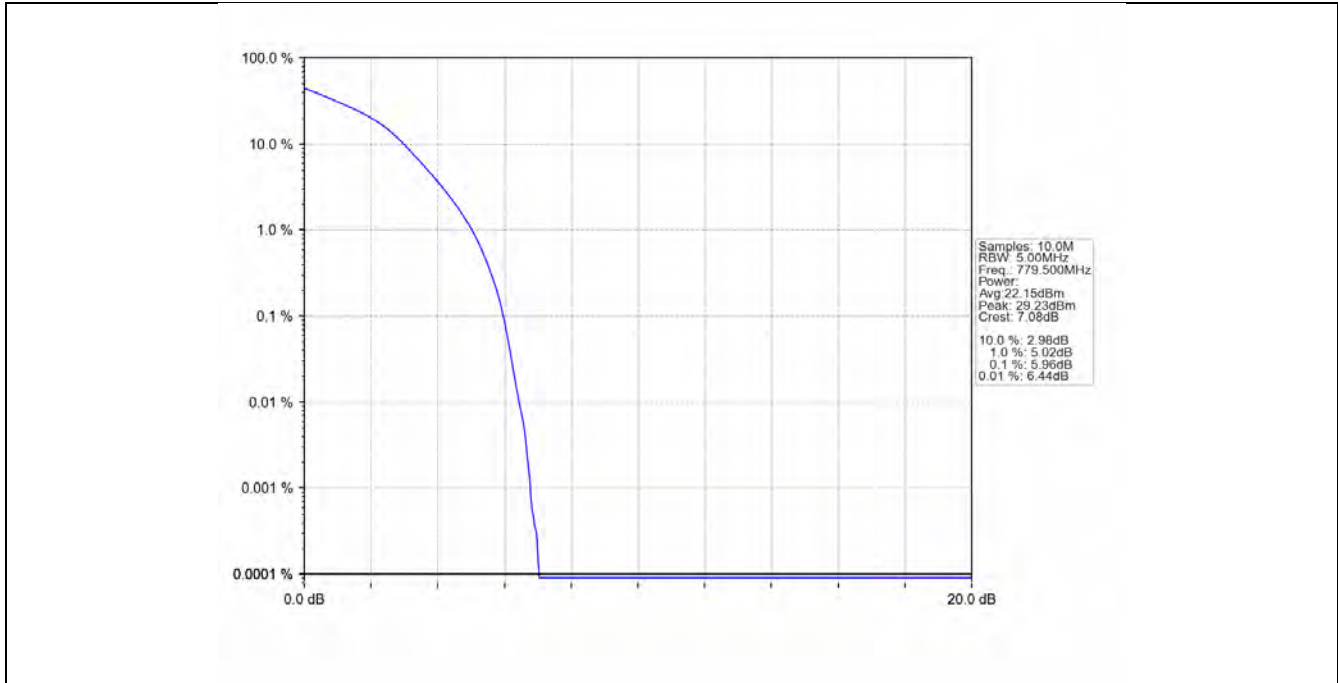


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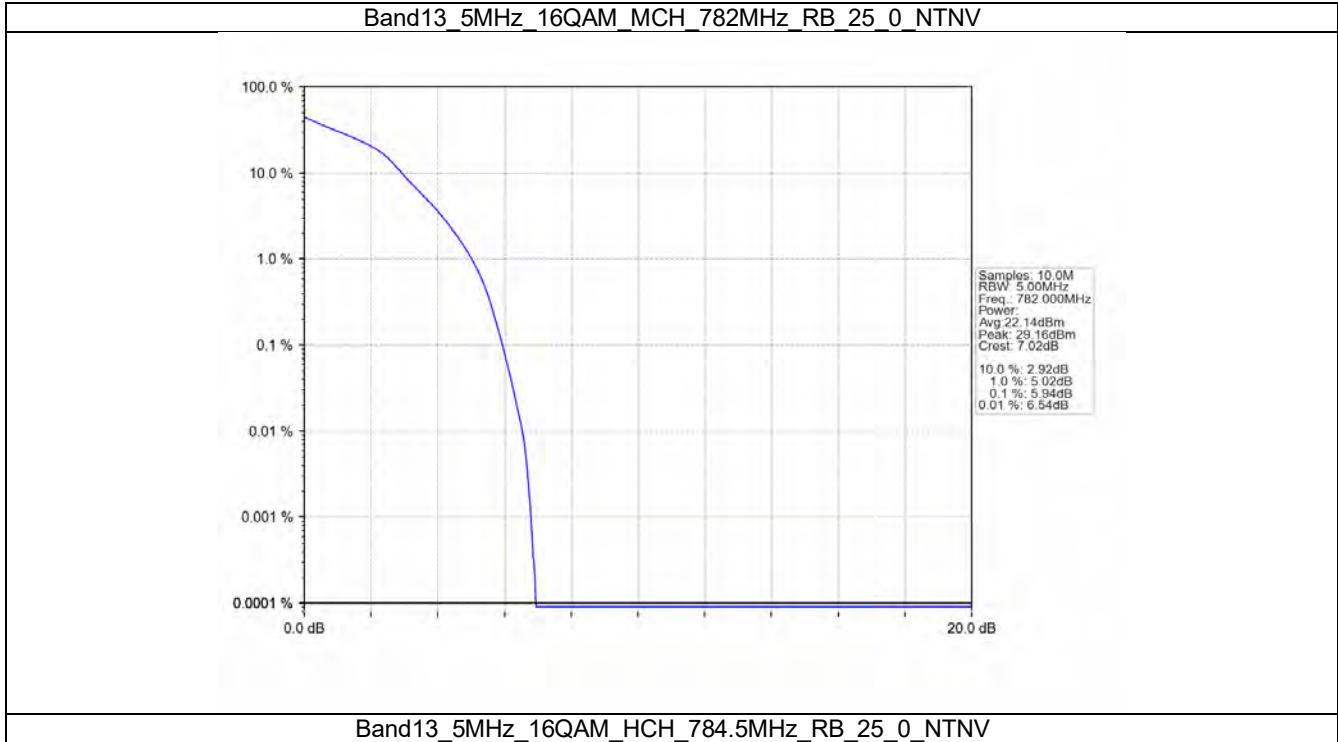


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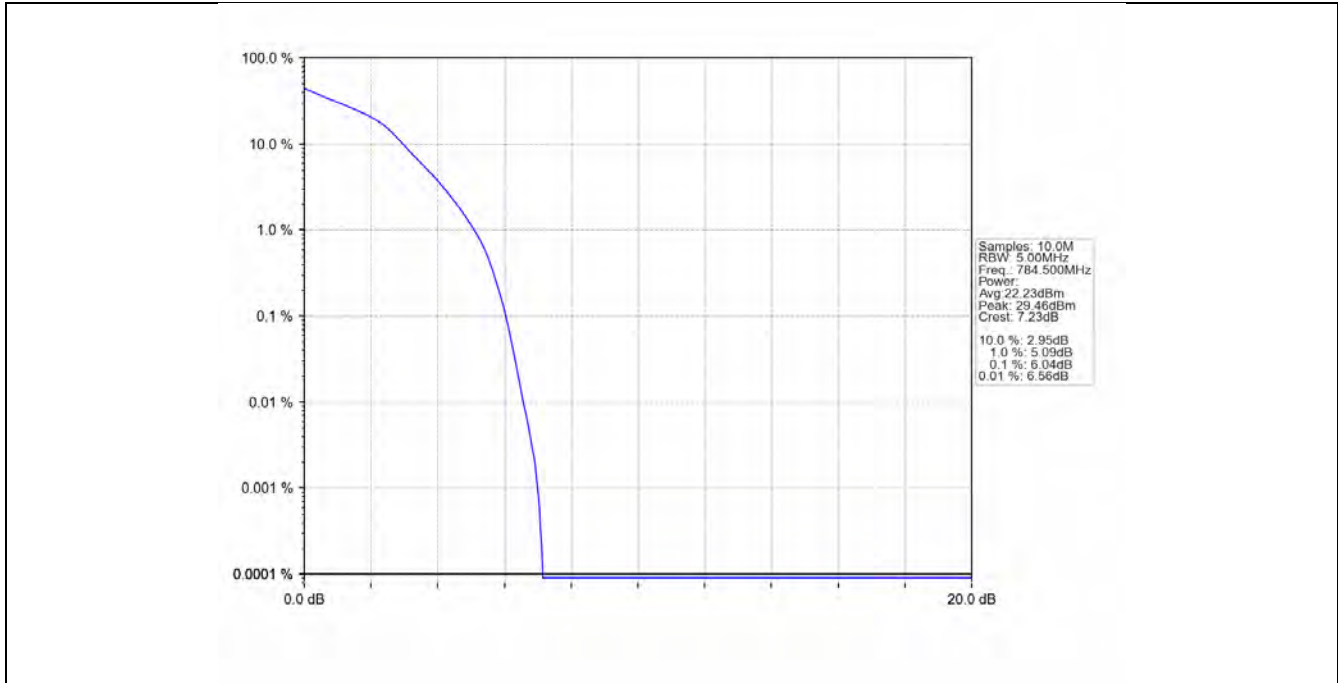


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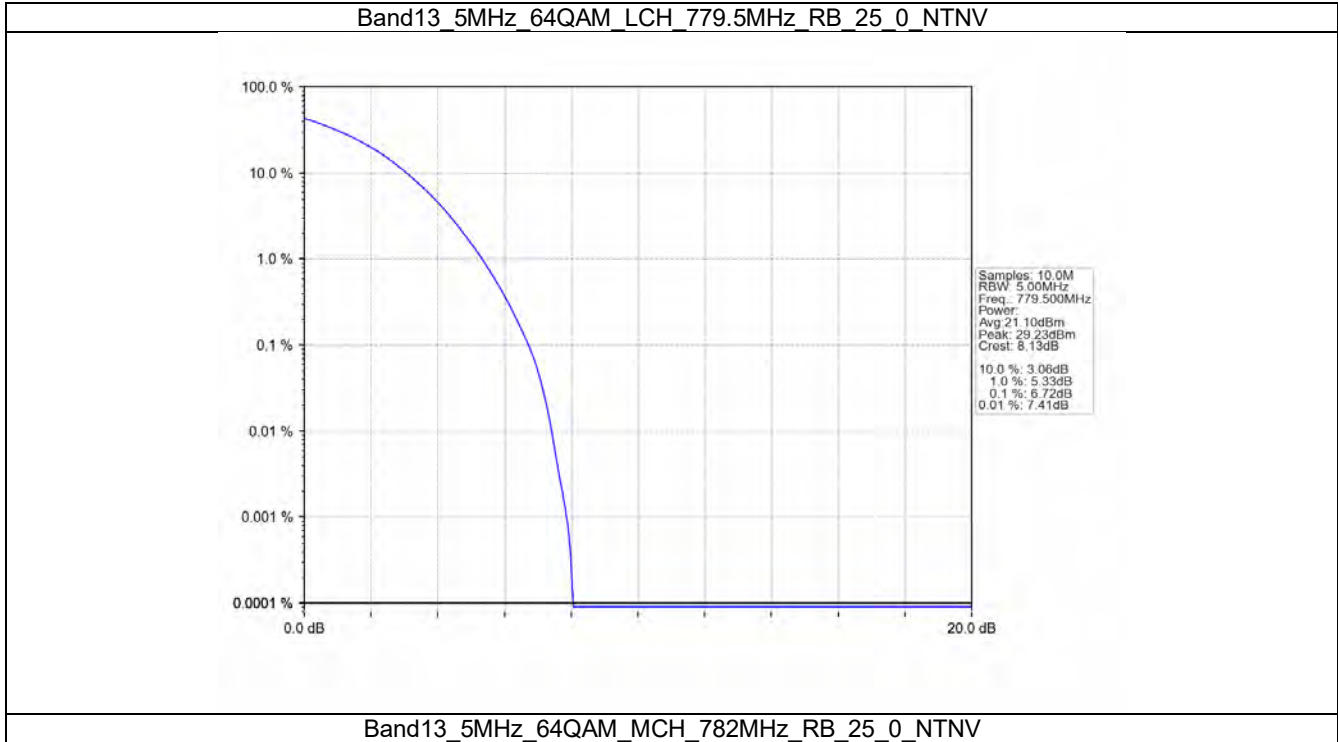


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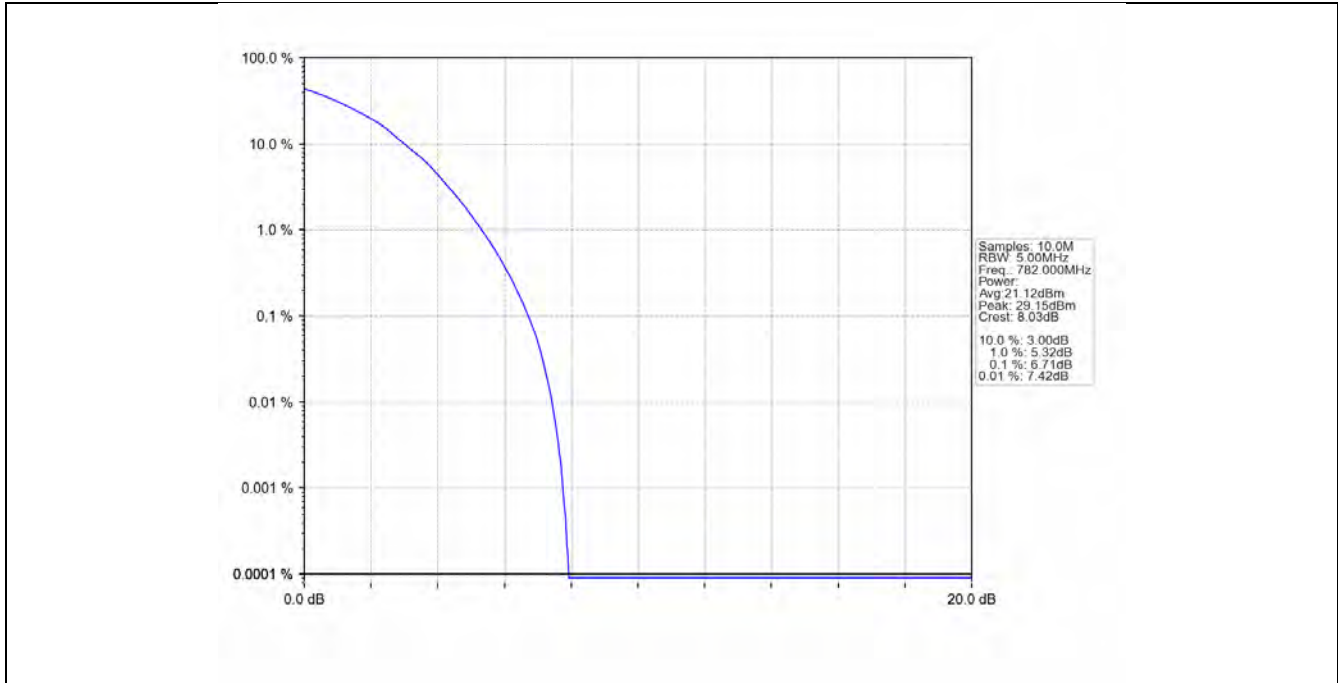
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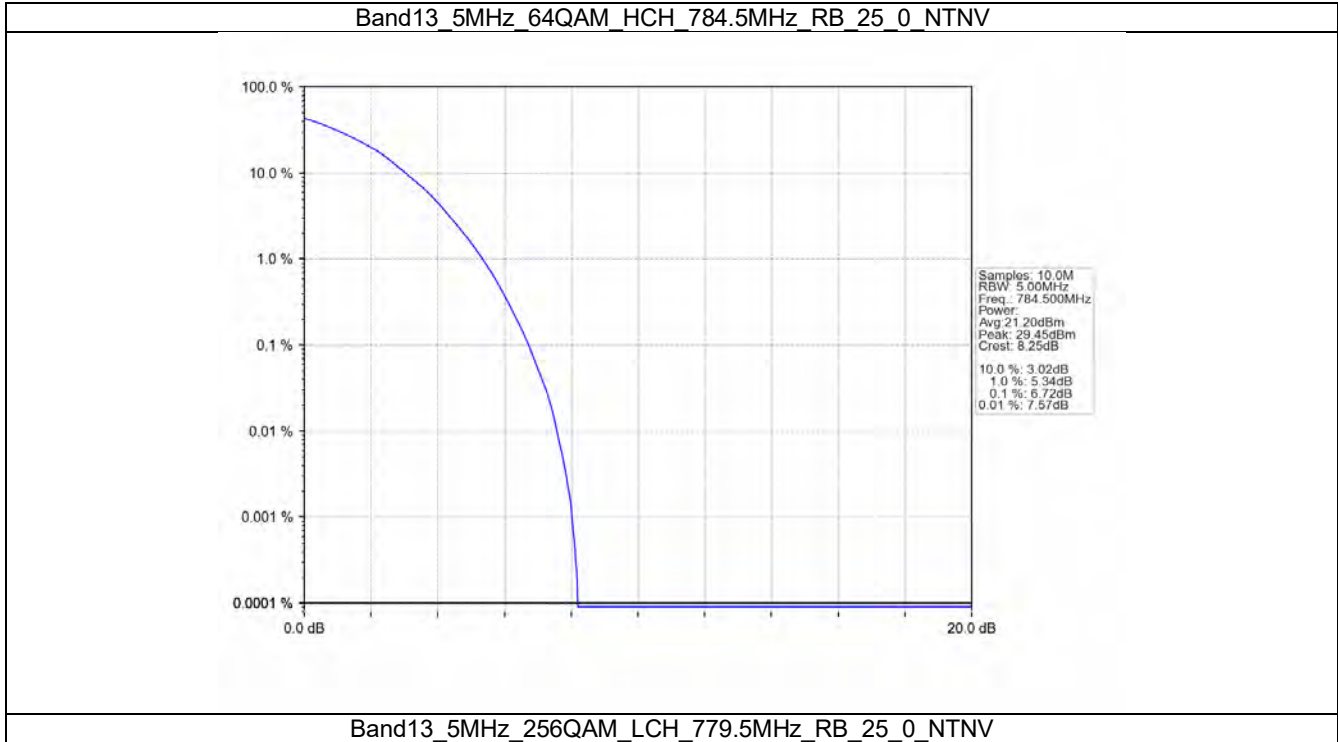


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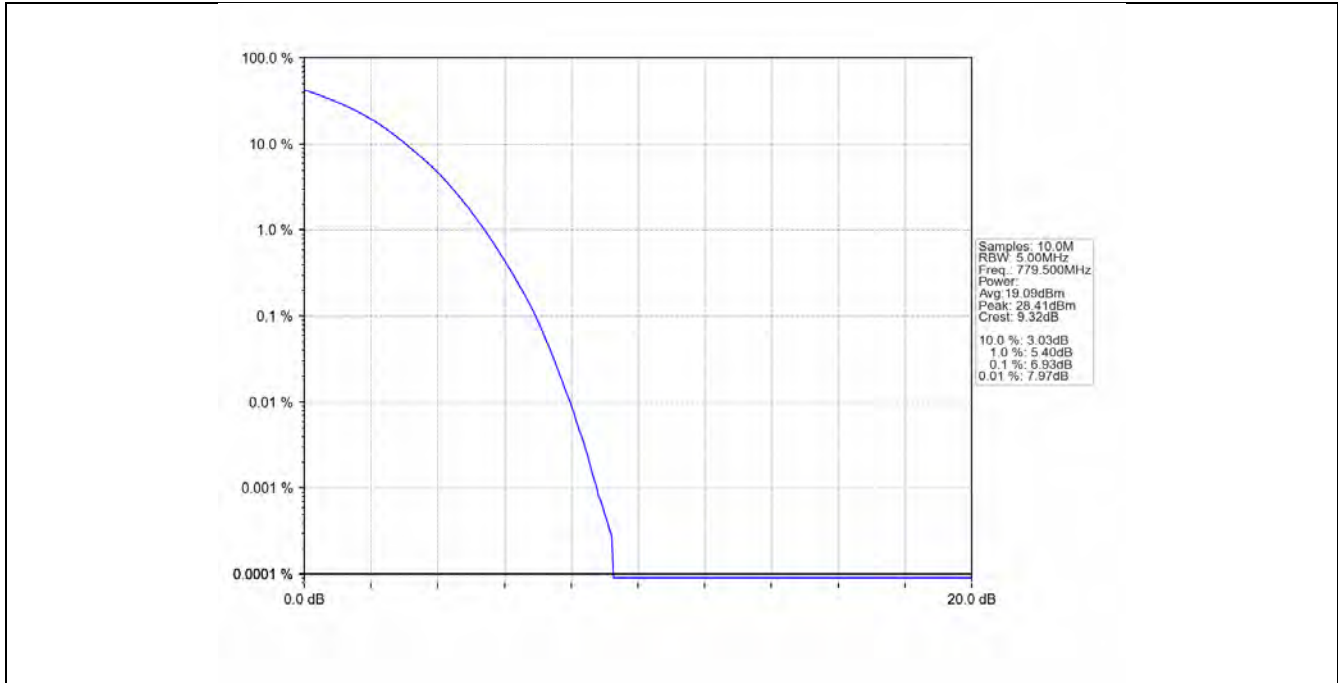


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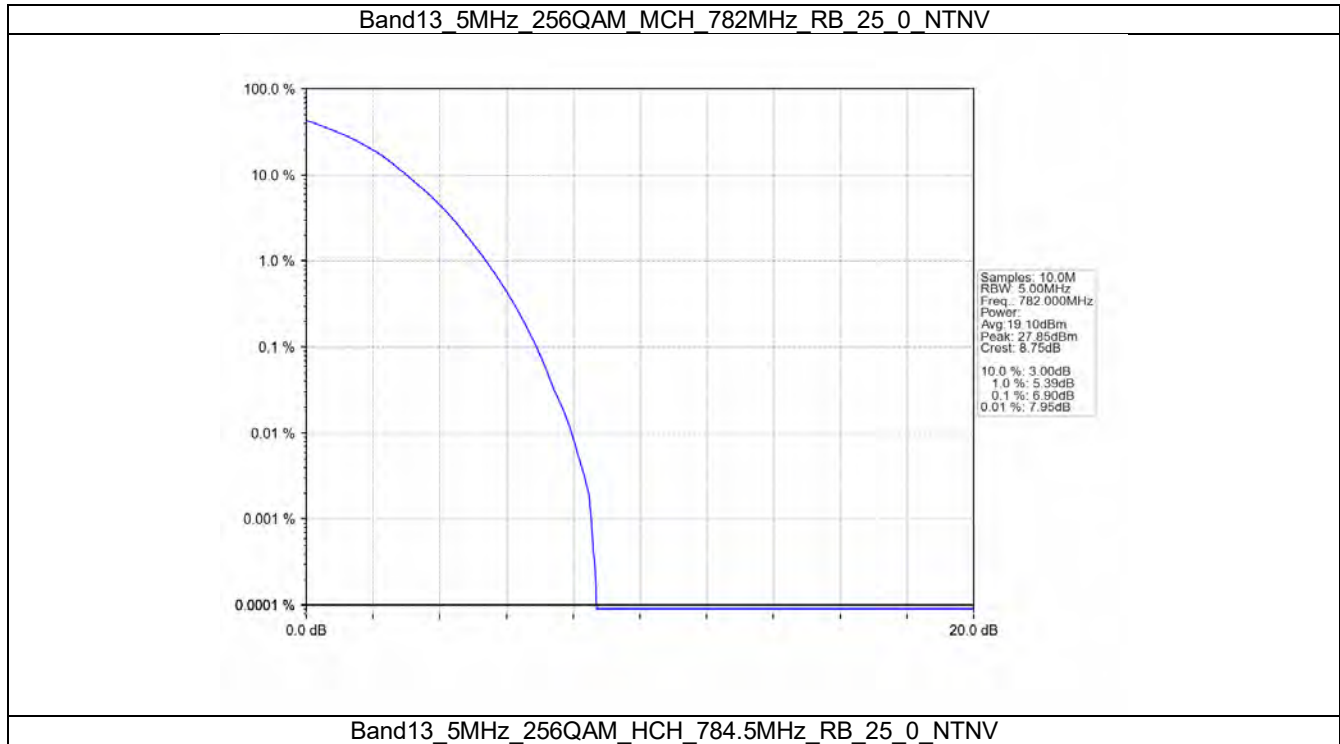


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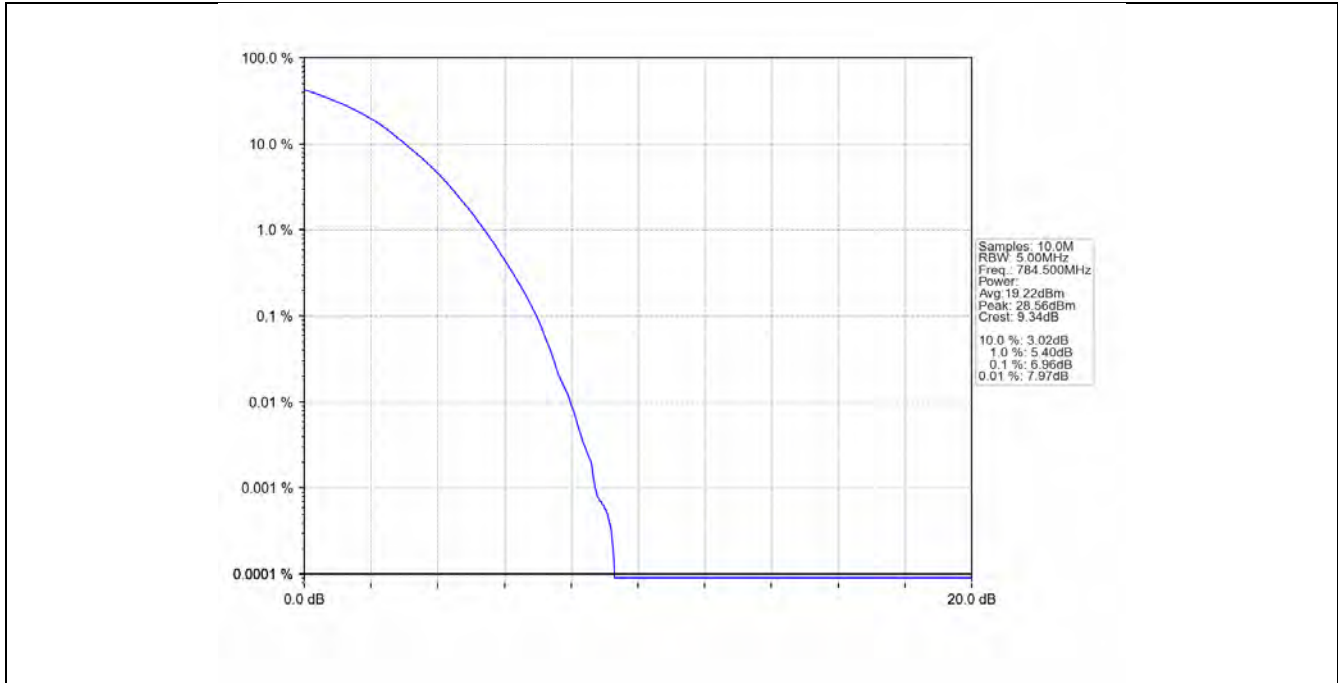
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## 4.2 B13\_10MHz

### 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	5.19	<=13	Pass
16QAM	782	50	0	6.05	<=13	Pass
64QAM	782	50	0	6.61	<=13	Pass
256QAM	782	50	0	6.77	<=13	Pass



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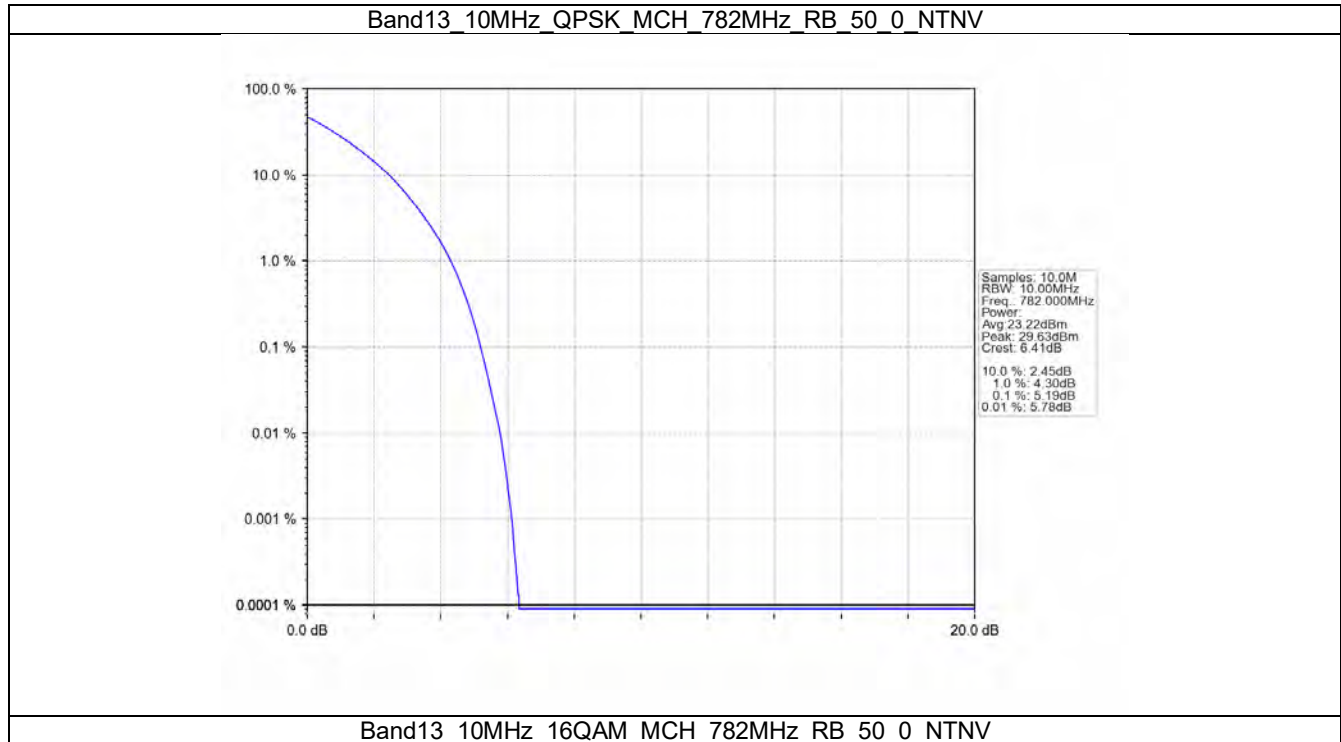
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4.2.2 Test Graph



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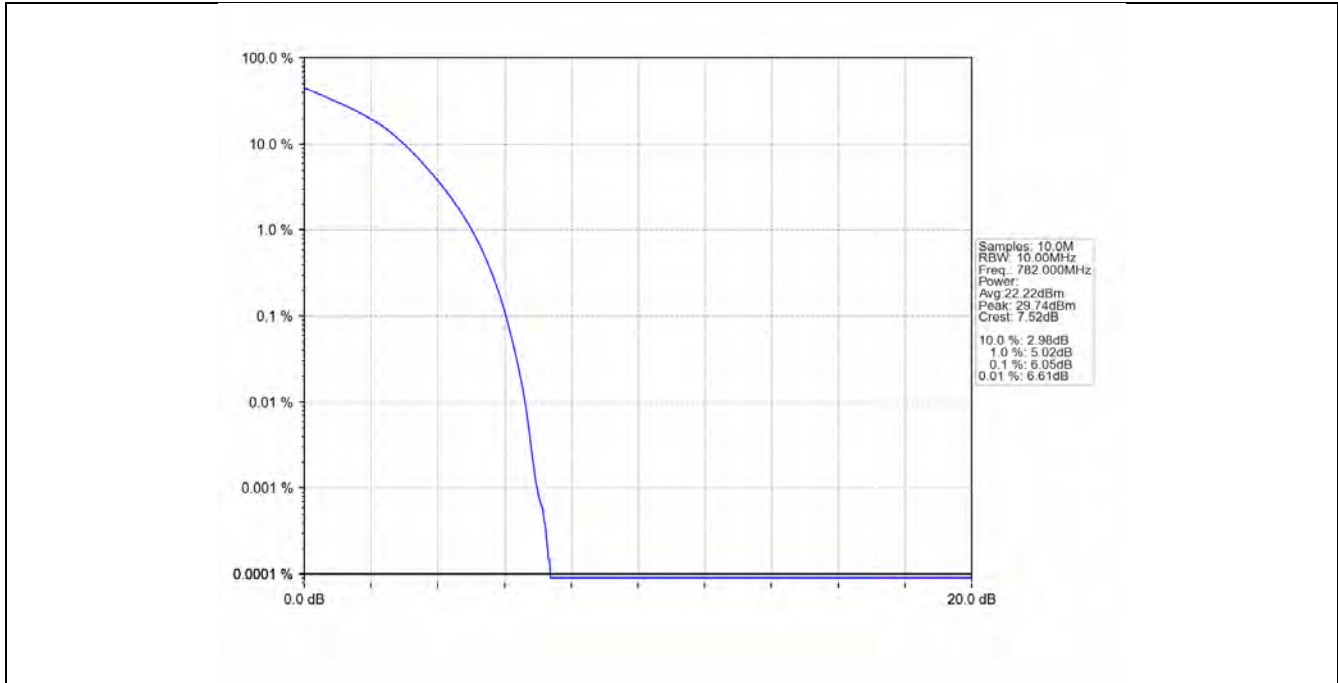
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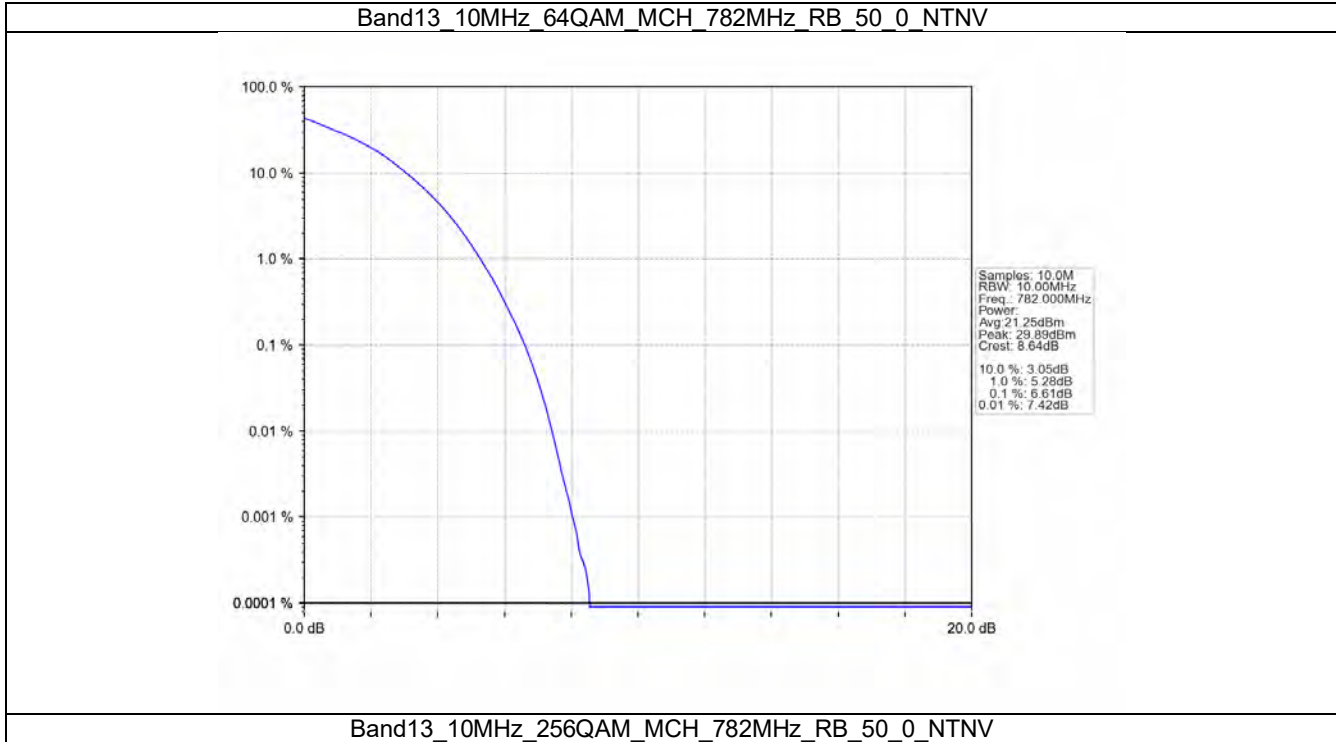


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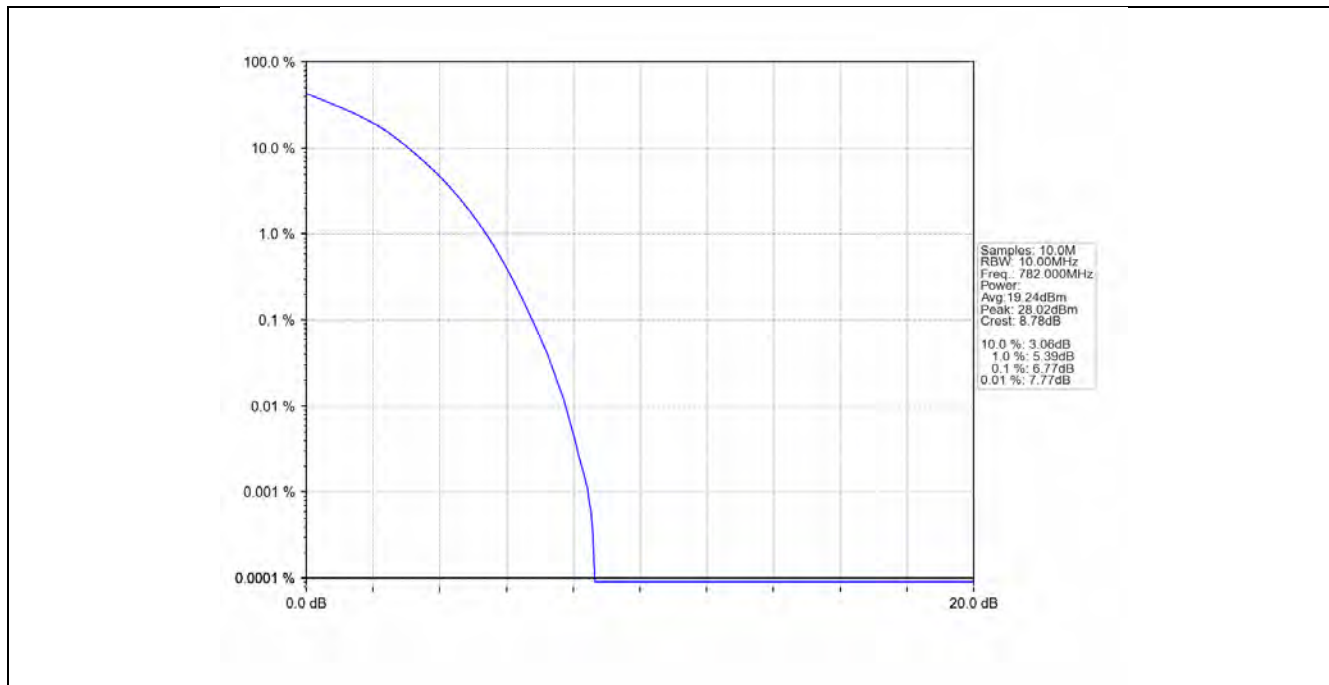
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## 5. Spurious Emission & Band Edges

### 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
	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
	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
	784.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
256QAM	779.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	784.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



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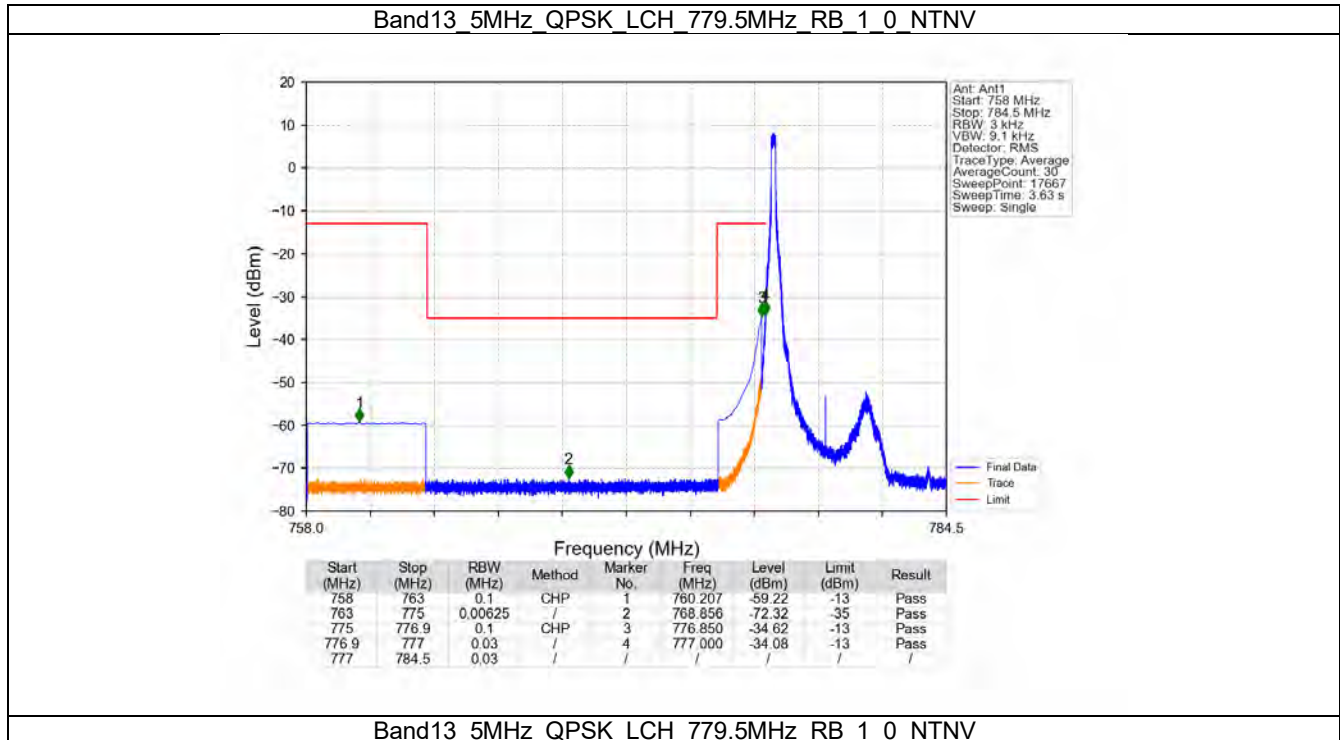
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5.1.2 Test Graph



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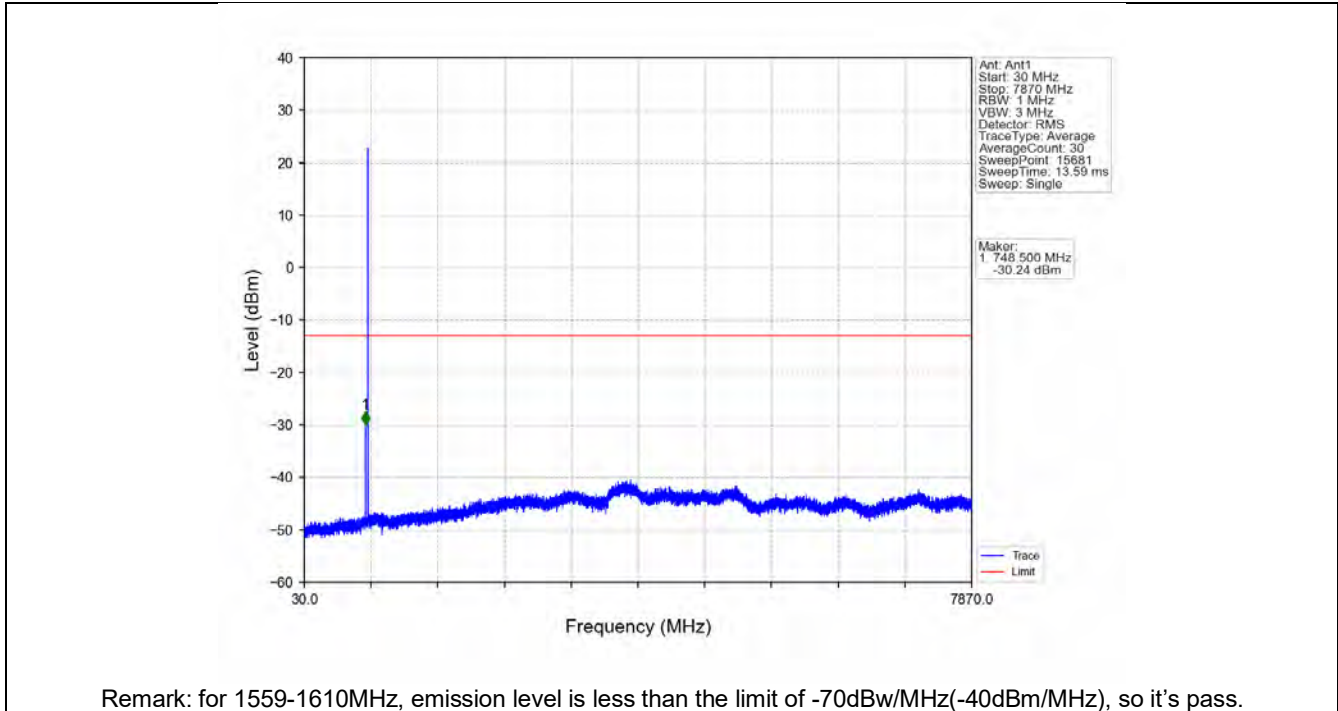


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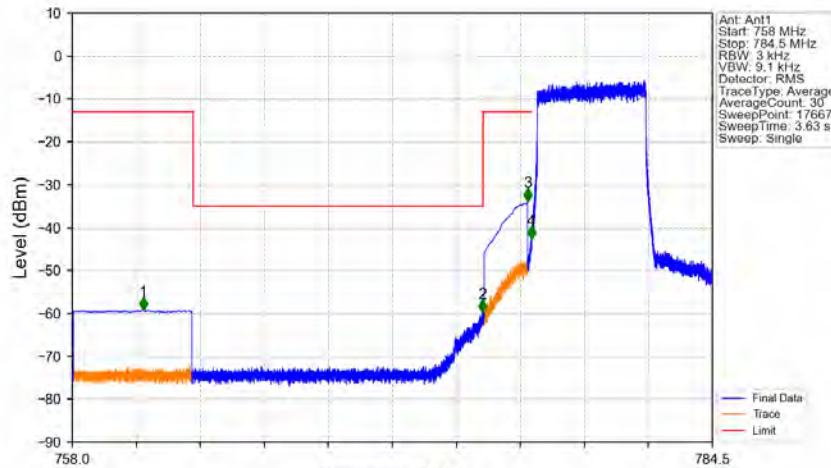
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Band13 5MHz QPSK LCH 779.5MHz RB 25 0 NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	760.930	-59.27	-13	Pass
763	775	0.00625	/	2	774.982	-59.79	-35	Pass
775	776.9	0.1	CHP	3	776.850	-33.98	-13	Pass
776.9	777	0.03	/	4	777.000	-42.72	-13	Pass
777	784.5	0.03	/	/	/	/	/	/

Band13 5MHz QPSK MCH 782MHz RB 1 0 NTV



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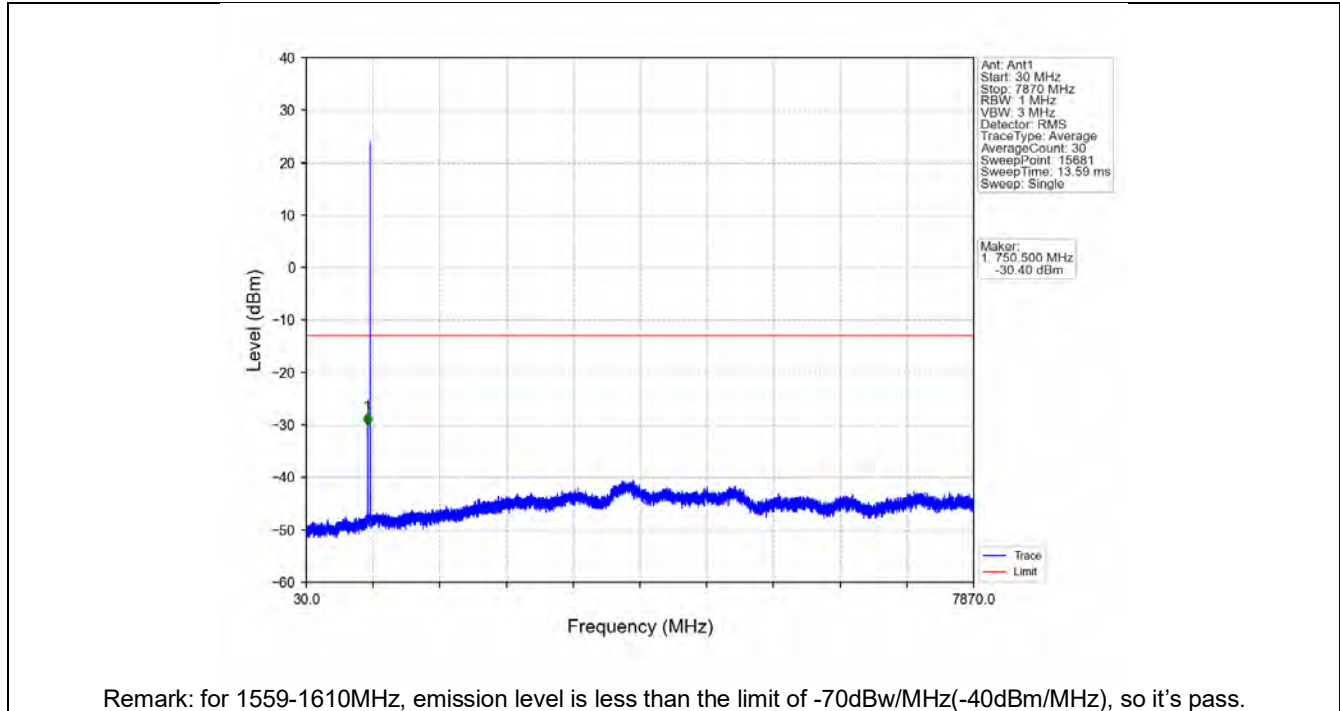


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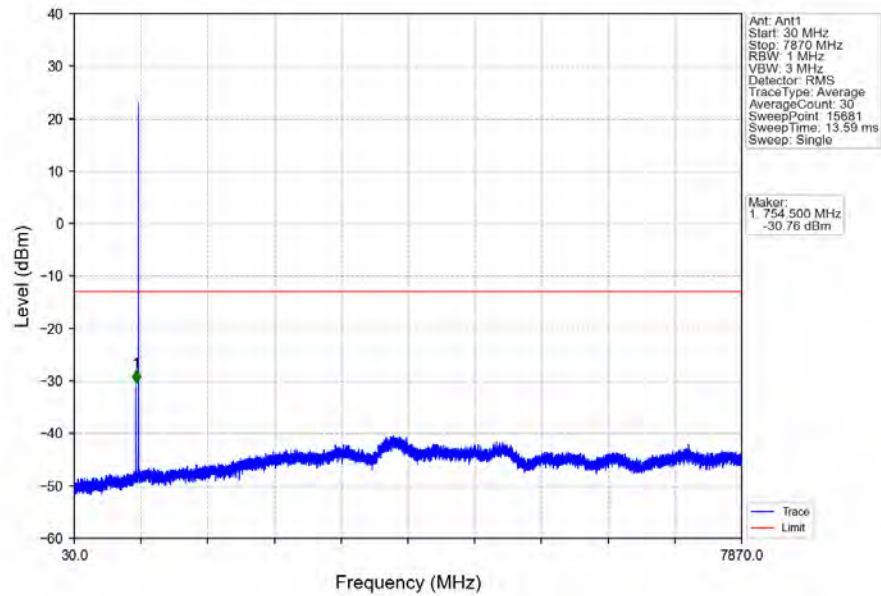
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Band13 5MHz QPSK HCH 784.5MHz RB 1 0 NTV



Remark: for 1559-1610MHz, emission level is less than the limit of -70dBw/MHz(-40dBm/MHz), so it's pass.

Band13 5MHz QPSK HCH 784.5MHz RB 1 24 NTV



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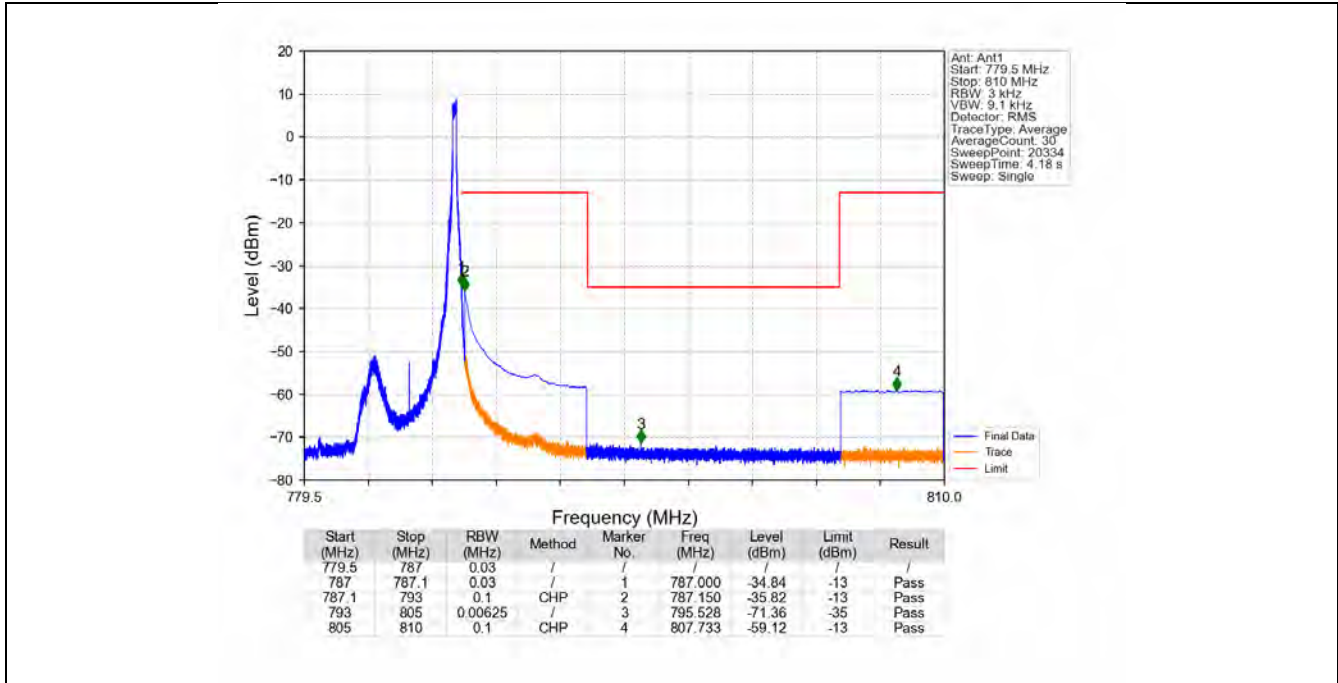


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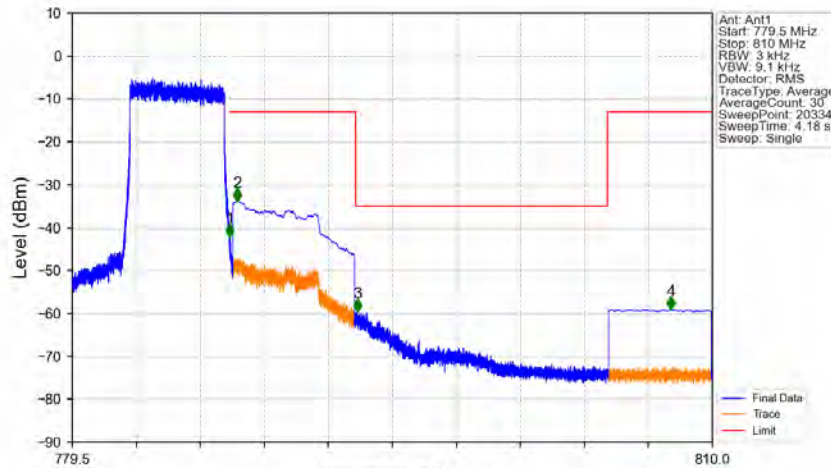
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Band13 5MHz QPSK HCH 784.5MHz RB 25 0 NTV



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	-42.26	-13	Pass
787.1	793	0.1	CHP	2	787.372	-33.86	-13	Pass
793	805	0.00625	/	3	793.074	-59.74	-35	Pass
805	810	0.1	CHP	4	808.021	-59.17	-13	Pass

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



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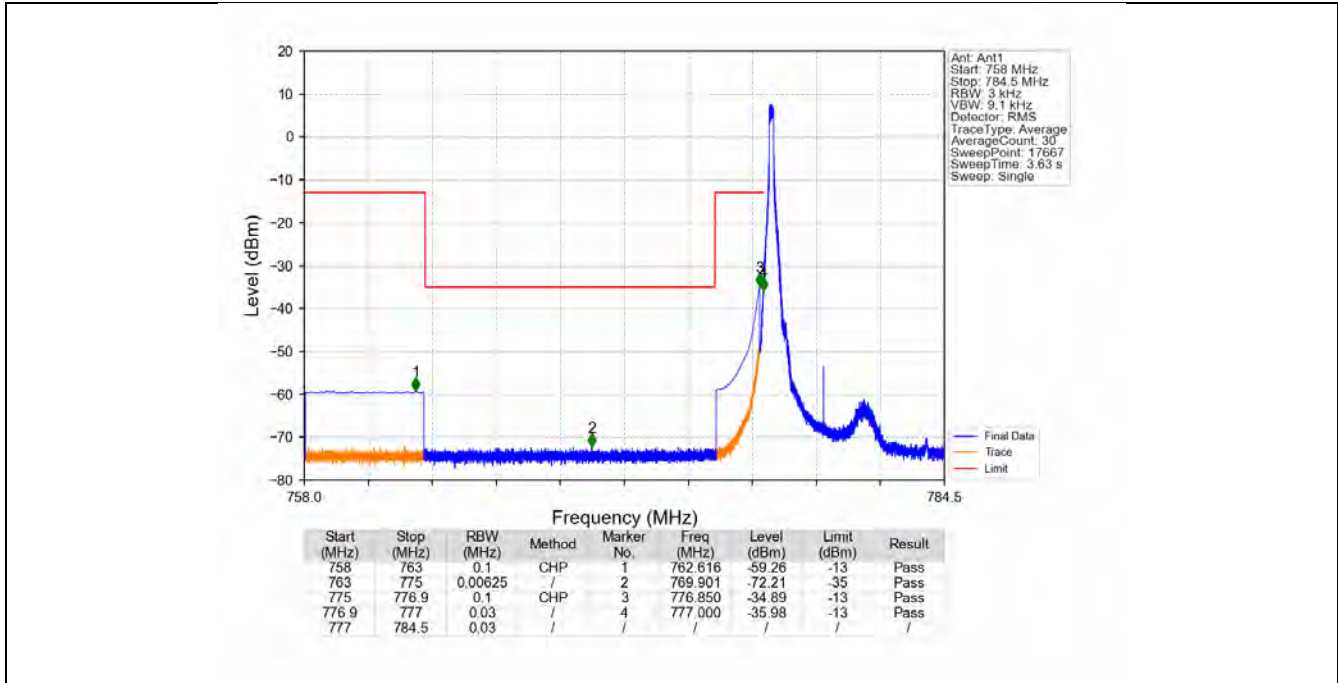


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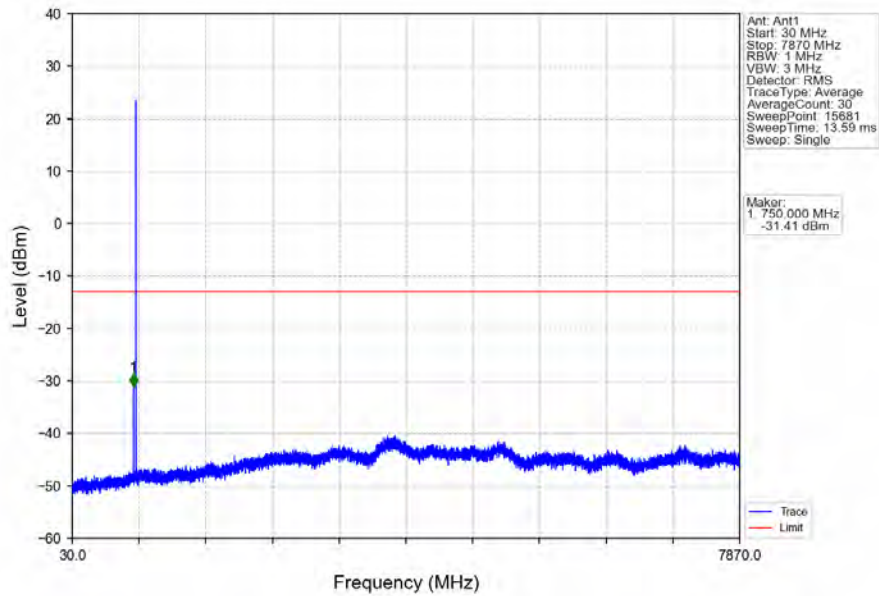
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Band13\_5MHz\_16QAM\_LCH\_779.5MHz\_RB\_1\_0\_NTNV



Remark: for 1559-1610MHz, emission level is less than the limit of -70dBw/MHz(-40dBm/MHz), so it's pass.

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



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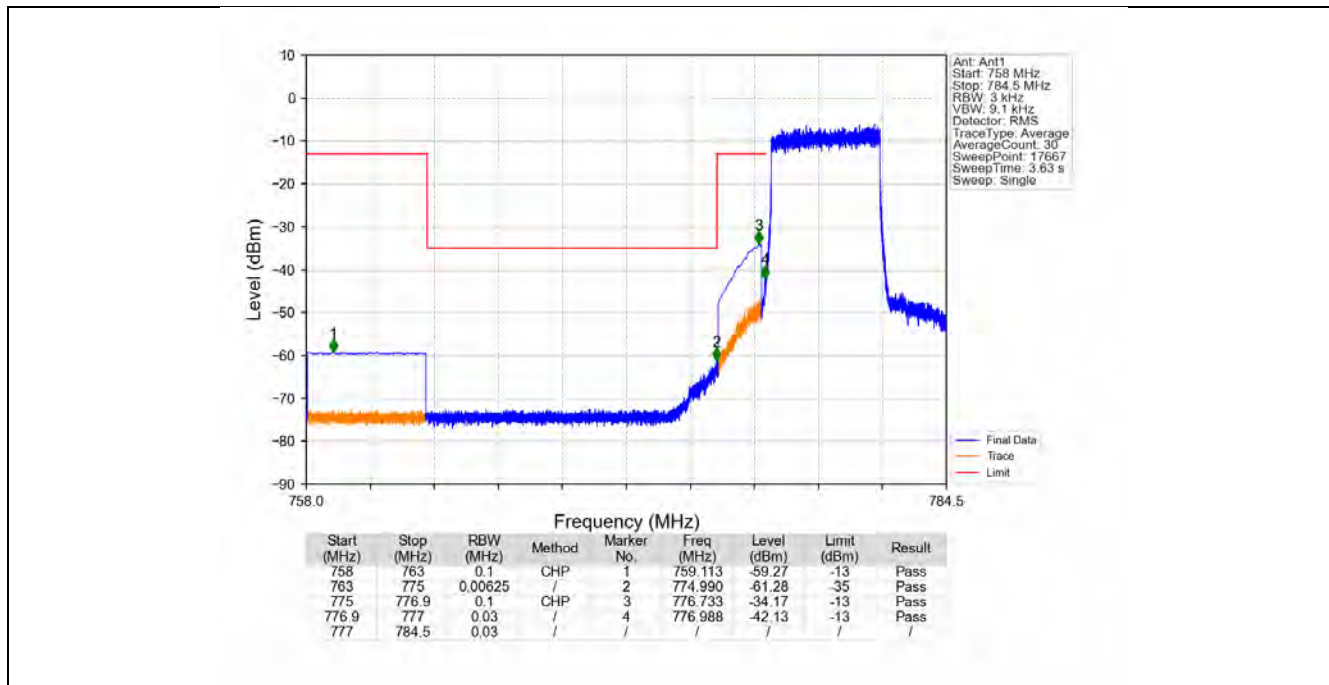
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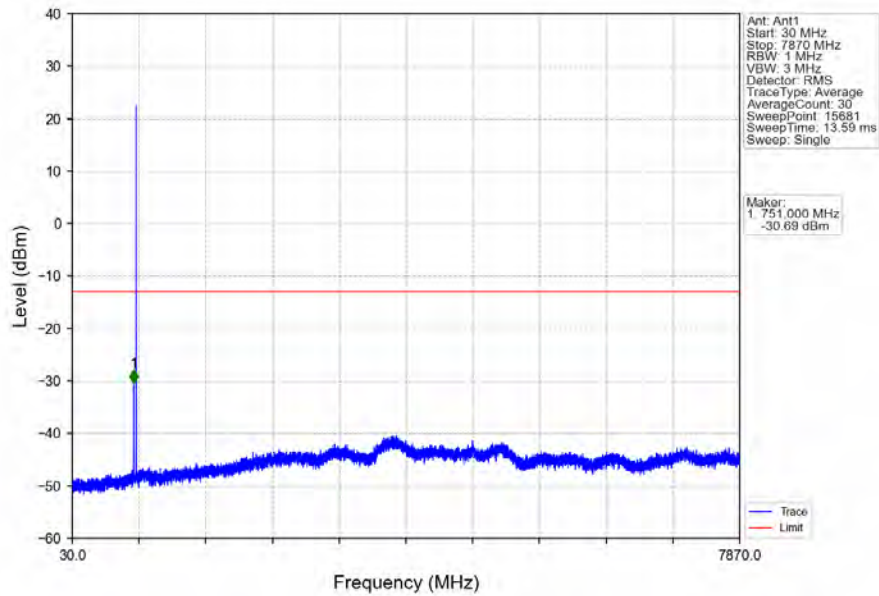
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Band13 5MHz 16QAM MCH 782MHz RB 1 0 NTN



Remark: for 1559-1610MHz, emission level is less than the limit of -70dBw/MHz(-40dBm/MHz), so it's pass.

Band13 5MHz 16QAM HCH 784.5MHz RB 1 0 NTN



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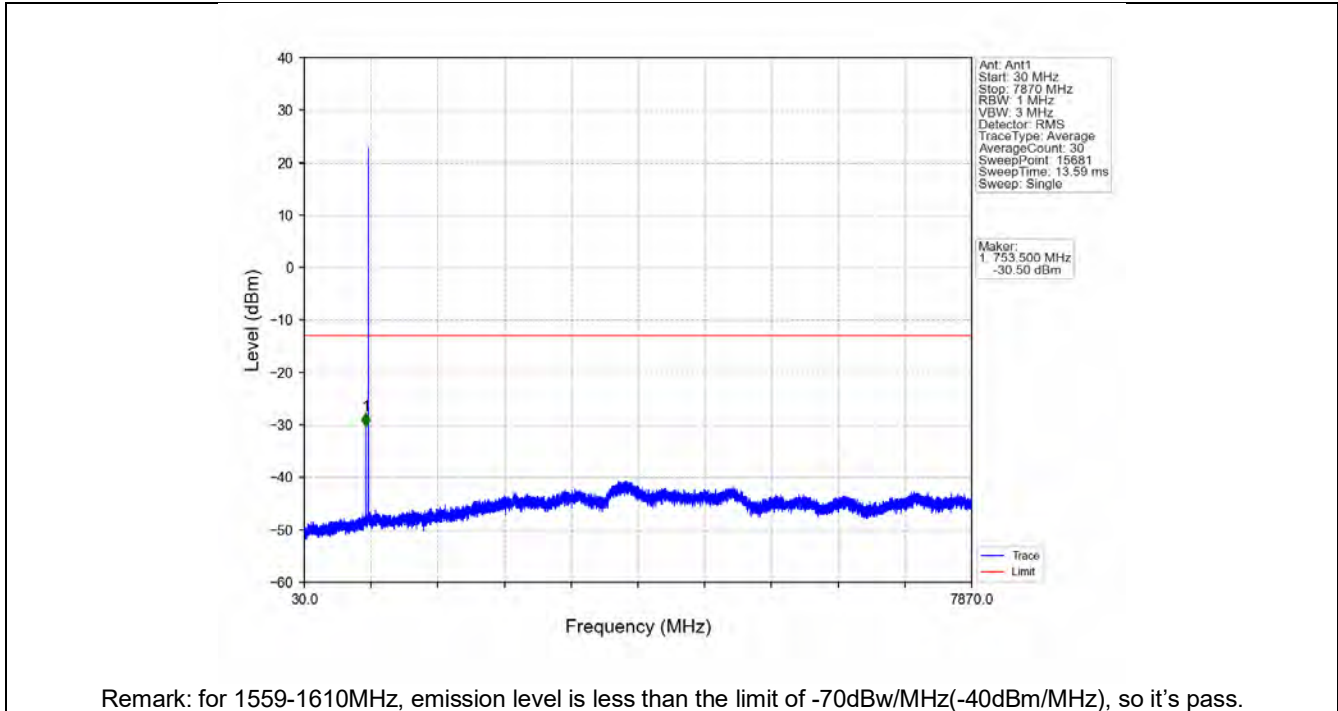


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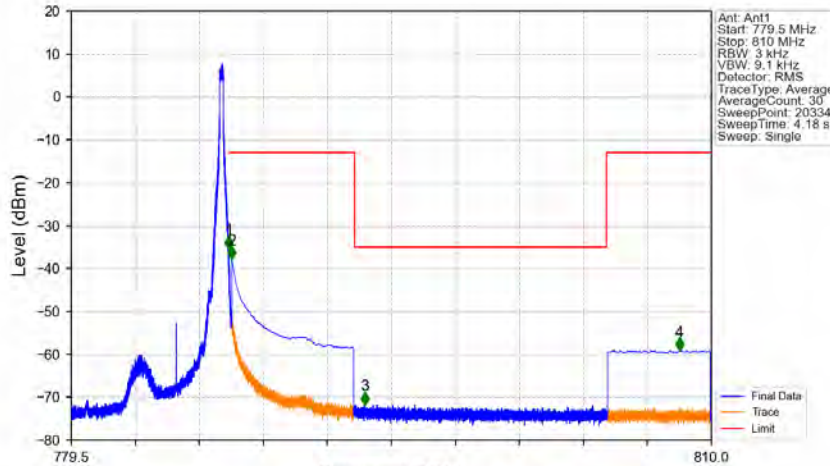
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Band13 5MHz 16QAM HCH 784.5MHz RB 1 24 NTNV



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	-35.48	-13	Pass
787.1	793	0.1	CHP	2	787.150	-37.85	-13	Pass
793	805	0.00625	/	3	793.477	-71.82	-35	Pass
805	810	0.1	CHP	4	808.488	-59.15	-13	Pass

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



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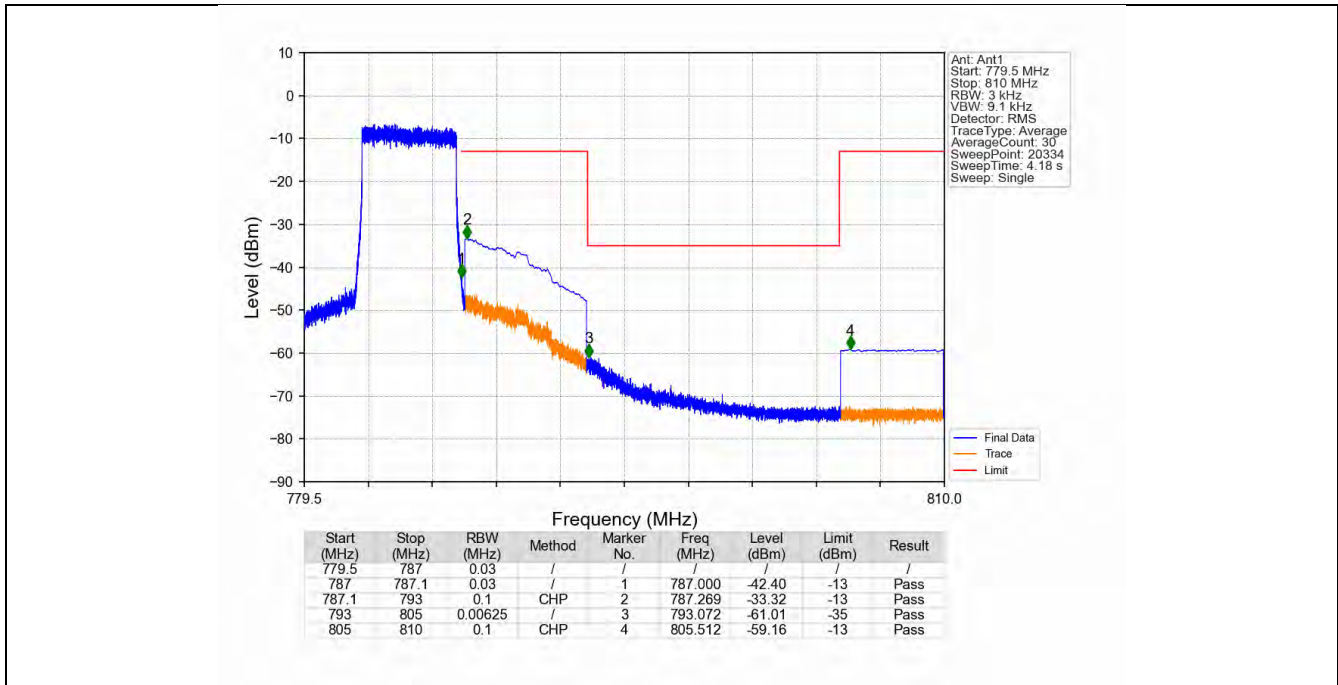


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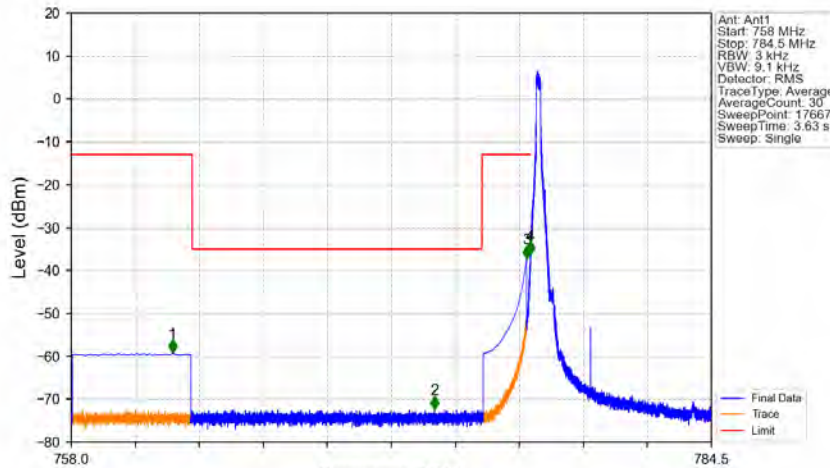
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Band13\_5MHz\_64QAM\_LCH\_779.5MHz\_RB\_1\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.199	-59.21	-13	Pass
763	775	0.00625	/	2	773.044	-72.34	-35	Pass
775	776.9	0.1	CHP	3	776.850	-37.26	-13	Pass
776.9	777	0.03	/	4	777.000	-36.26	-13	Pass
777	784.5	0.03	/	/	/	/	/	/

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



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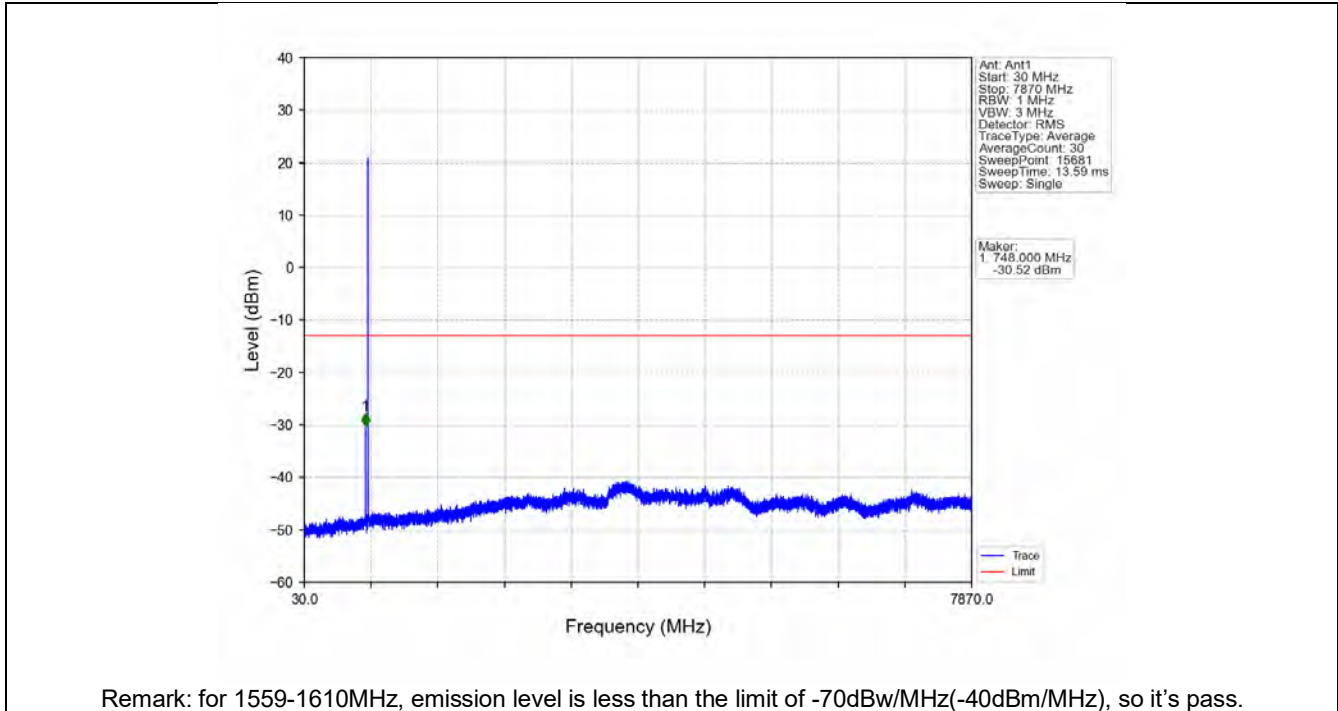


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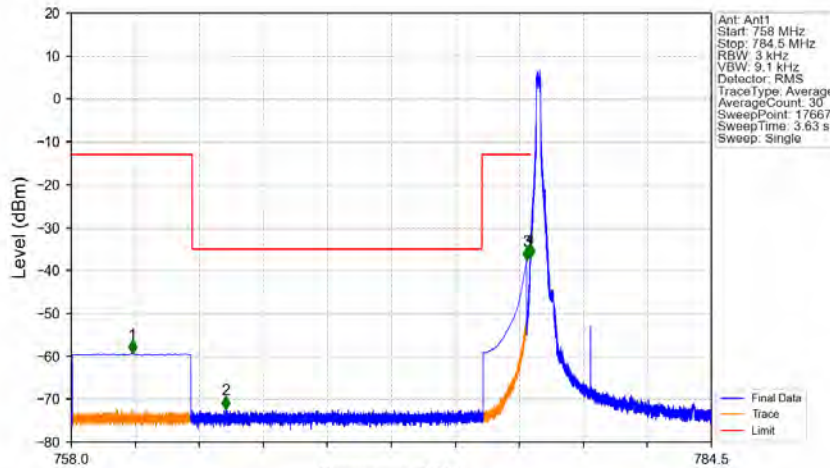
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Band13\_5MHz\_64QAM\_LCH\_779.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	760.534	-59.33	-13	Pass
763	775	0.00625	/	2	764.401	-72.36	-35	Pass
775	776.9	0.1	CHP	3	776.850	-37.67	-13	Pass
776.9	777	0.03	/	4	777.000	-36.93	-13	Pass
777	784.5	0.03	/	/	/	/	/	/

Band13\_5MHz\_64QAM\_MCH\_782MHz\_RB\_1\_0\_NTNV



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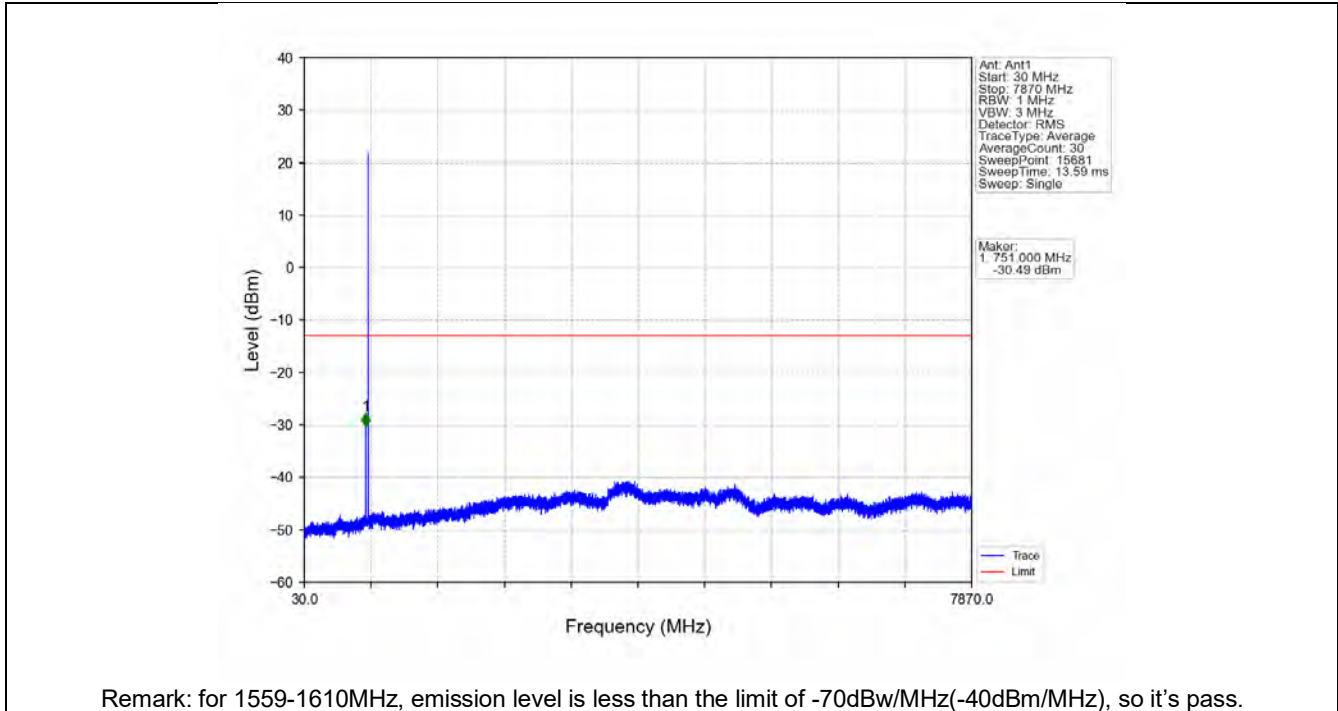


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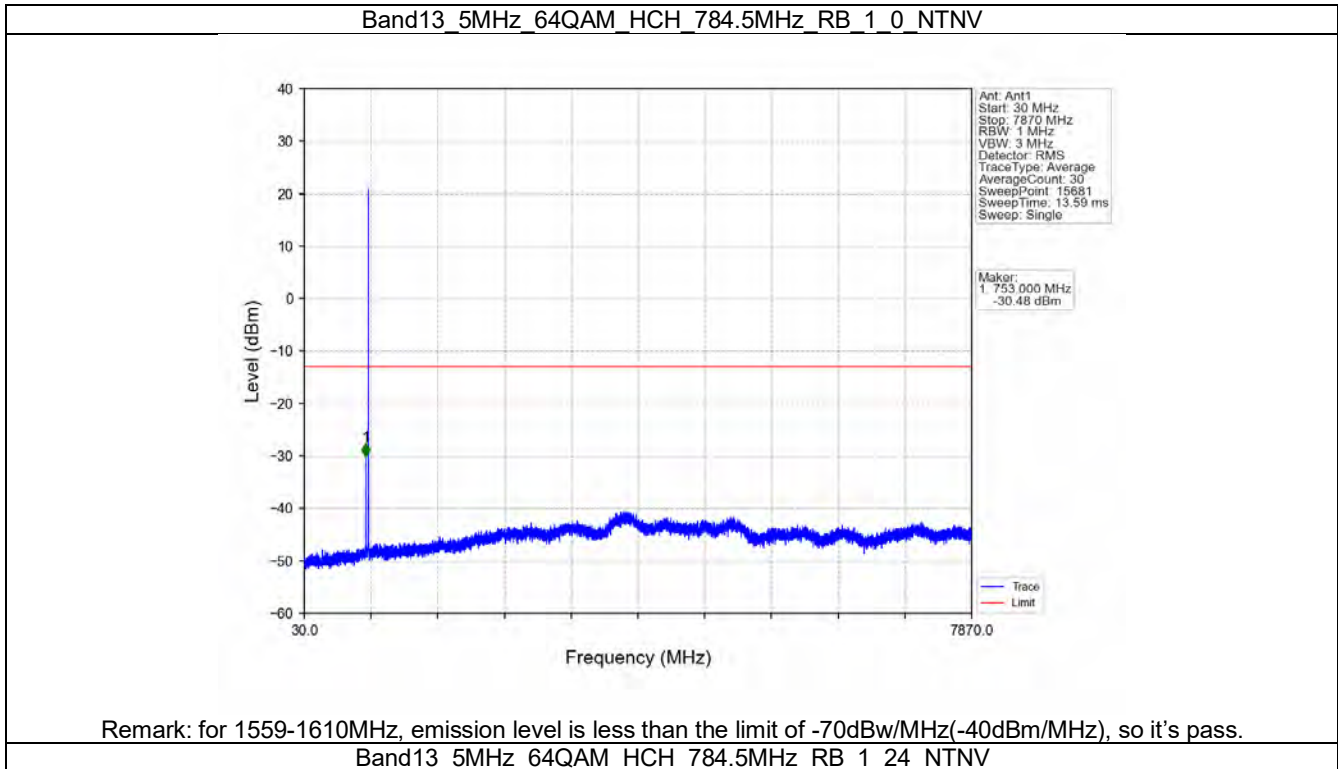


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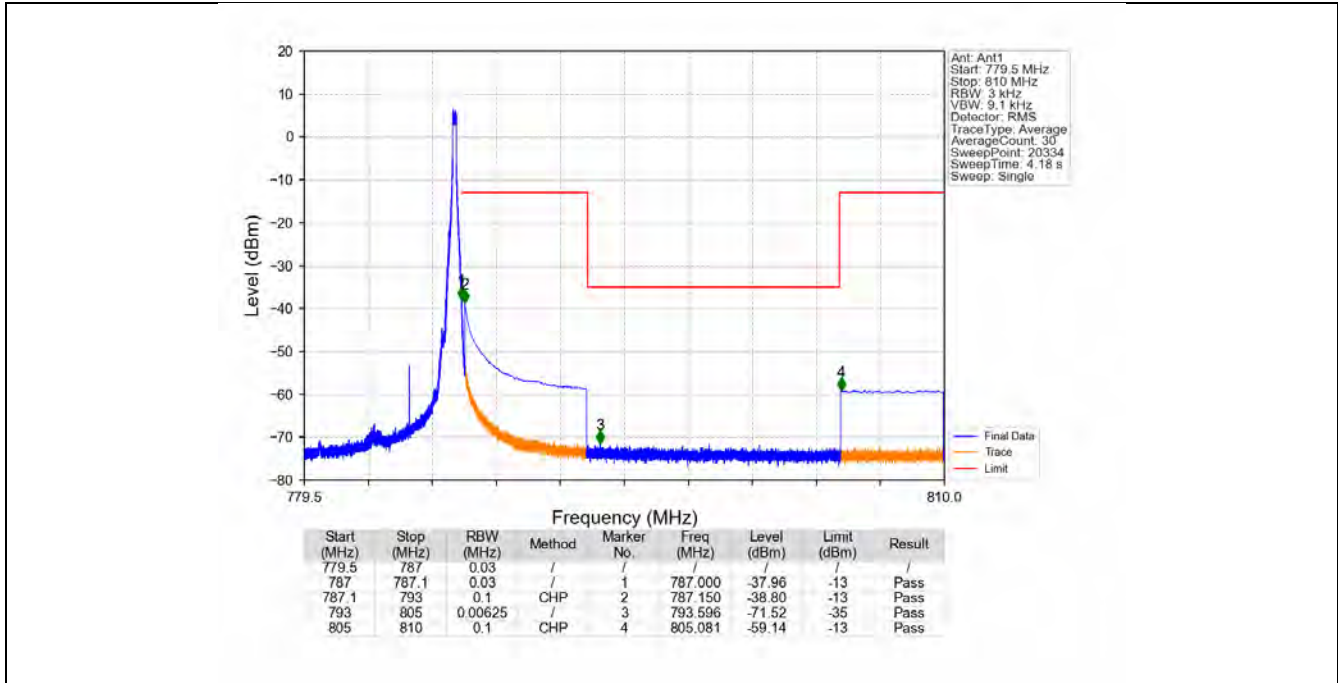


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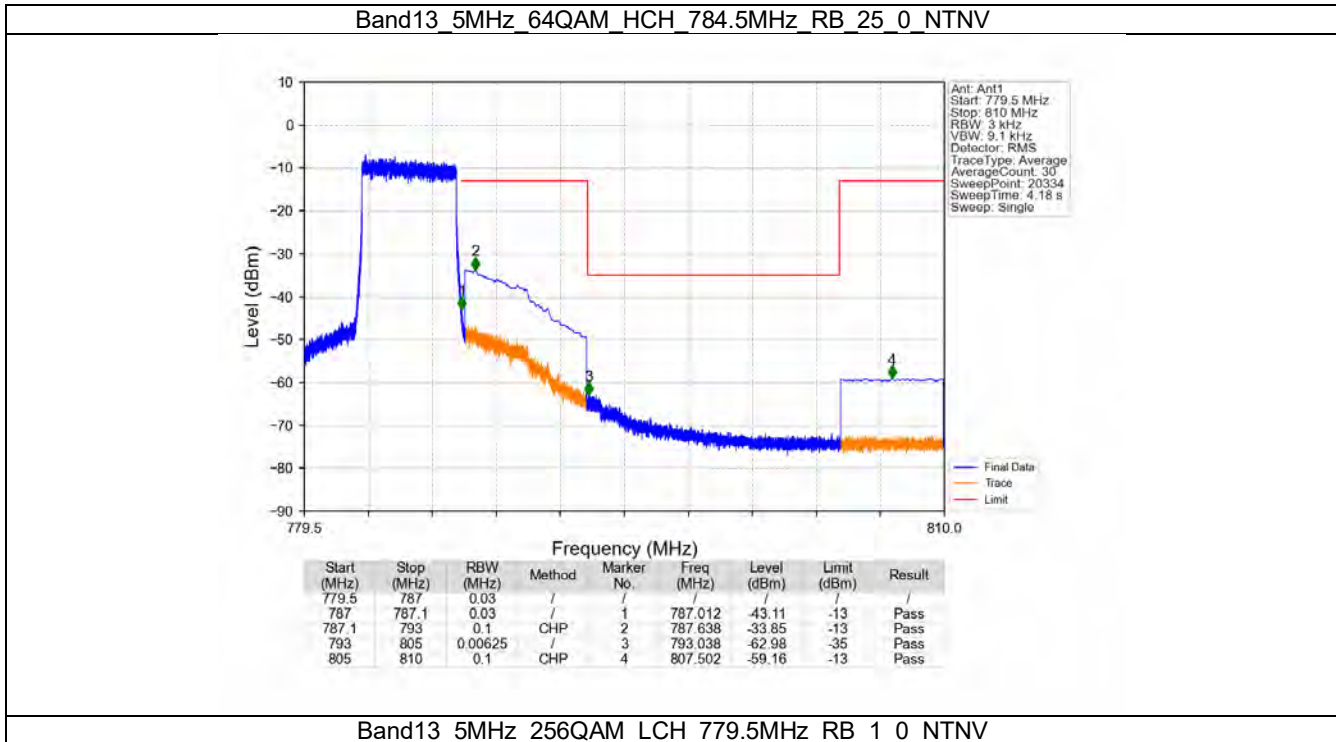


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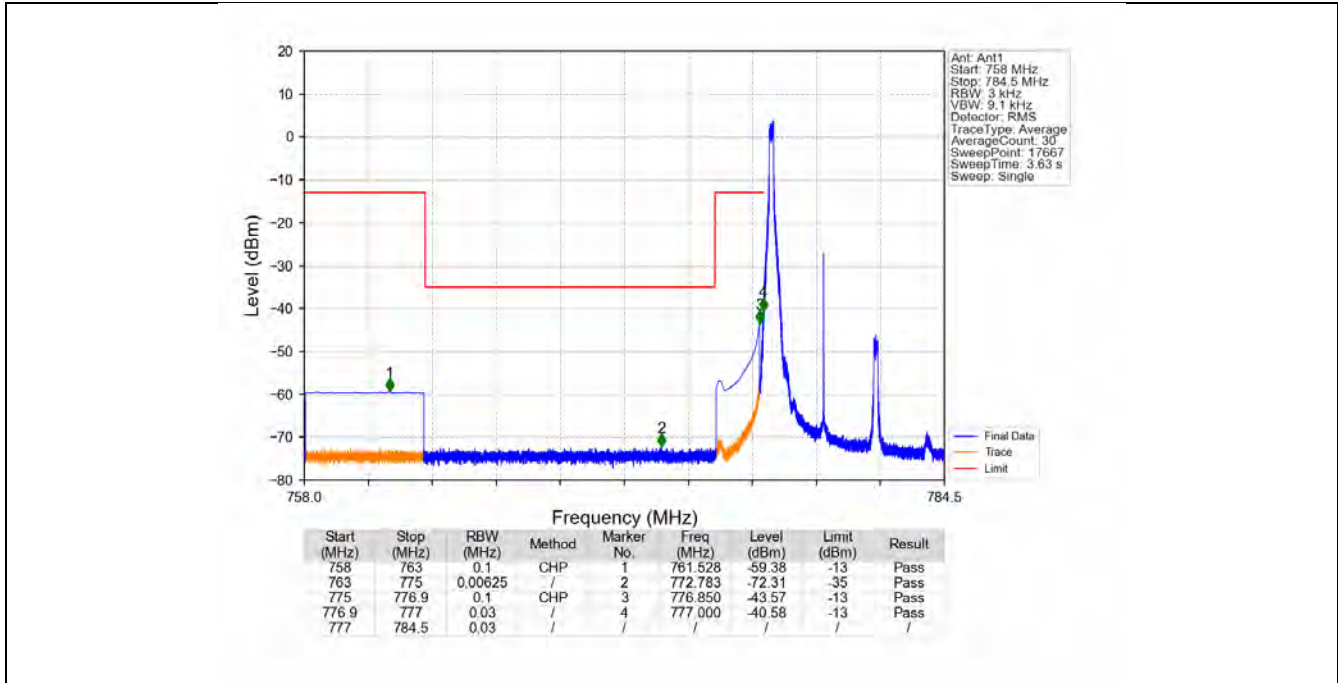


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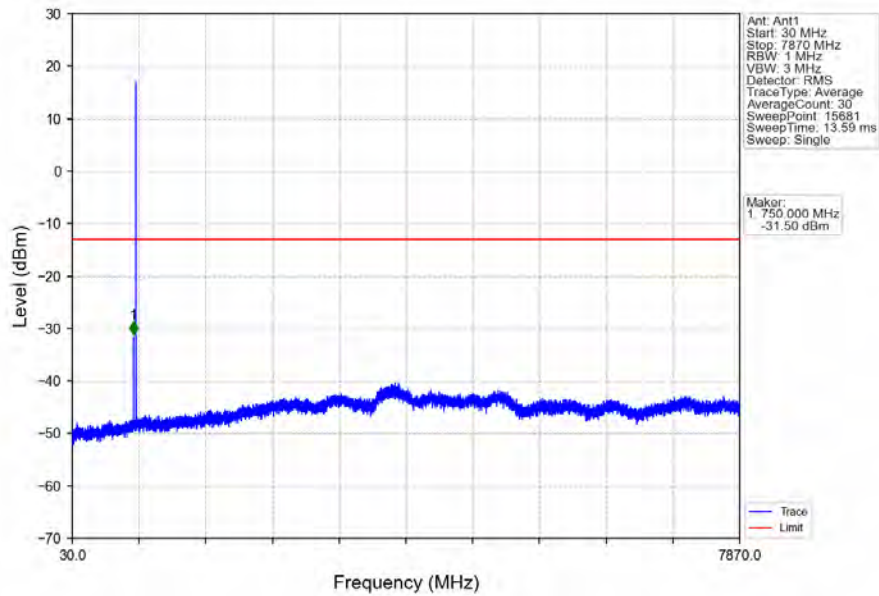
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Band13\_5MHz\_256QAM\_LCH\_779.5MHz\_RB\_1\_0\_NTNV



Remark: for 1559-1610MHz, emission level is less than the limit of -70dBw/MHz(-40dBm/MHz), so it's pass.

Band13\_5MHz\_256QAM\_LCH\_779.5MHz\_RB\_25\_0\_NTNV



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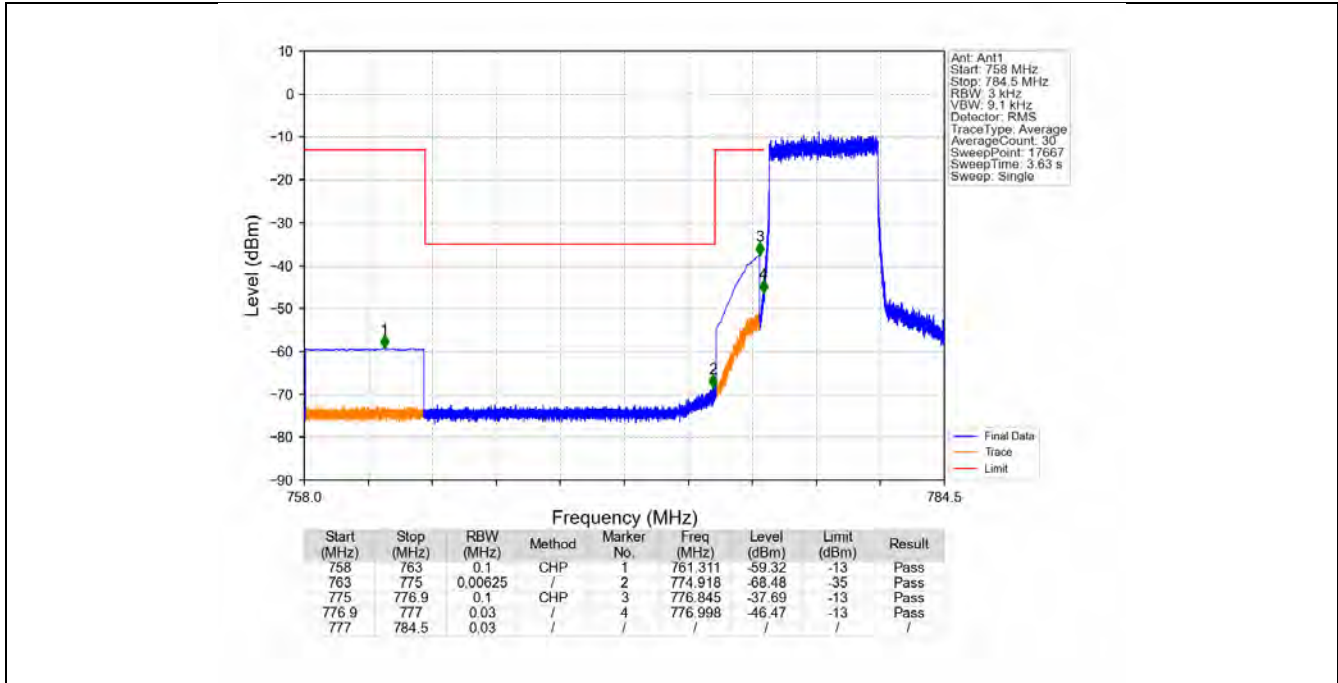


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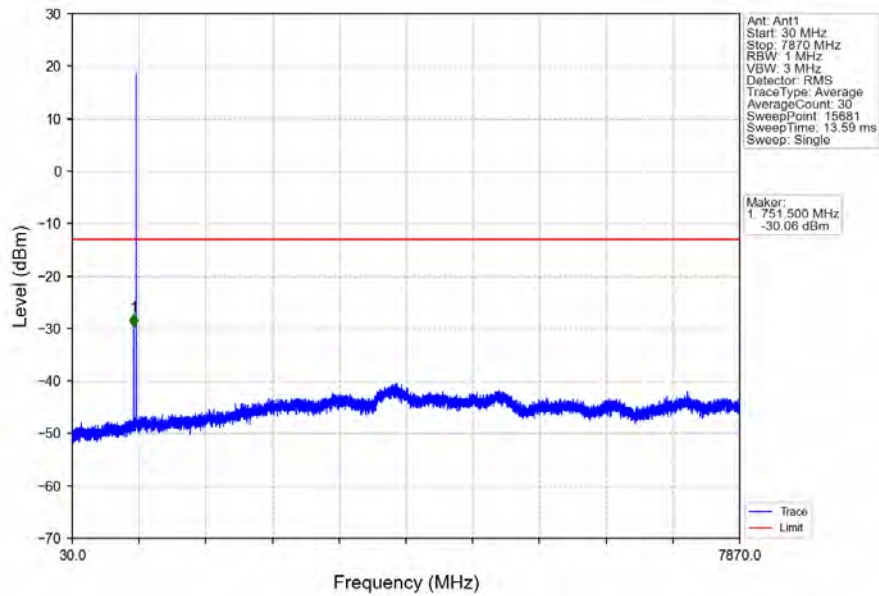
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Band13\_5MHz\_256QAM\_MCH\_782MHz\_RB\_1\_0\_NTNV



Remark: for 1559-1610MHz, emission level is less than the limit of -70dBw/MHz(-40dBm/MHz), so it's pass.

Band13\_5MHz\_256QAM\_HCH\_784.5MHz\_RB\_1\_0\_NTNV



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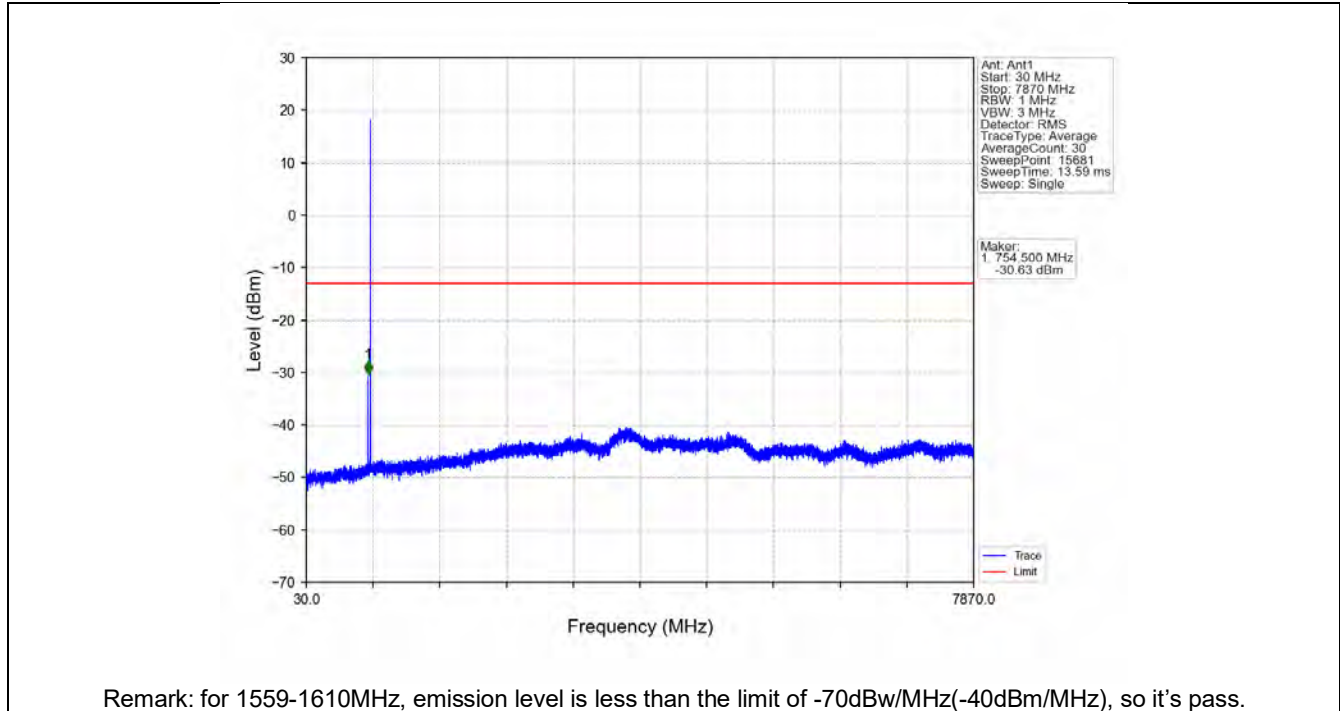


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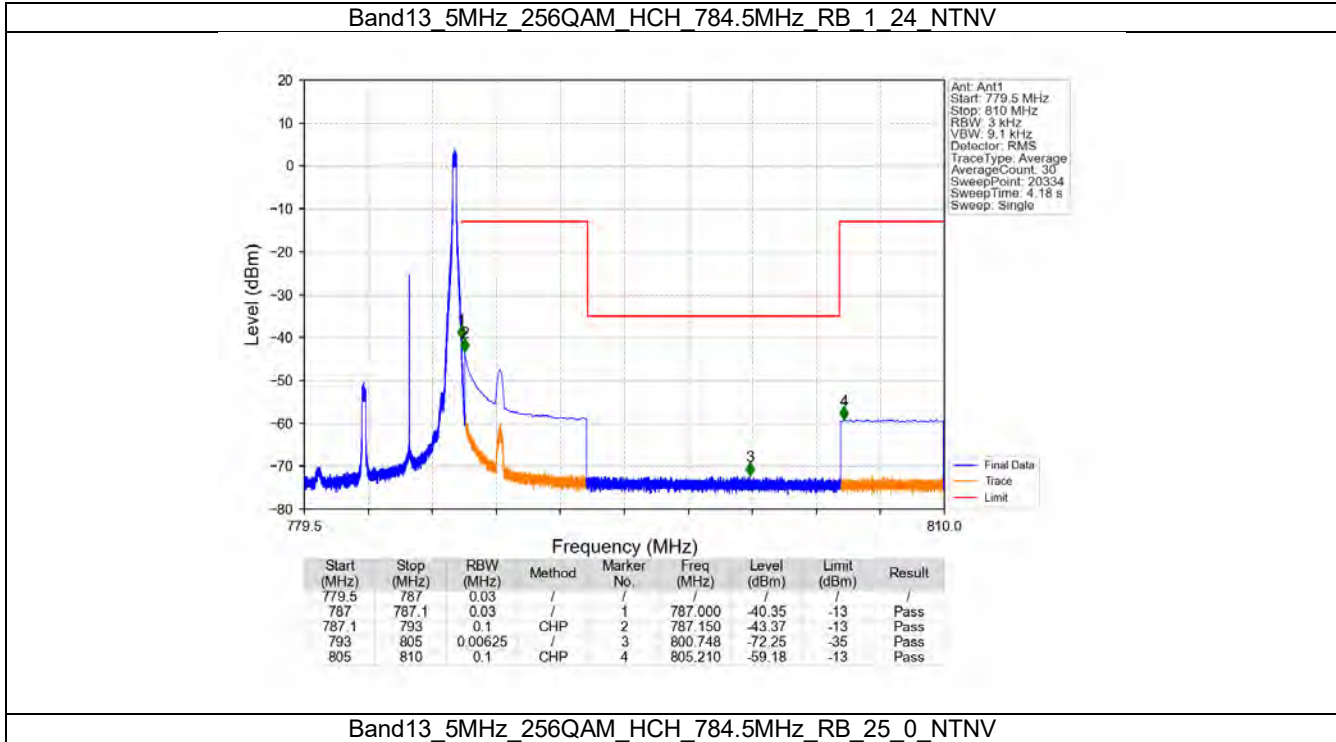


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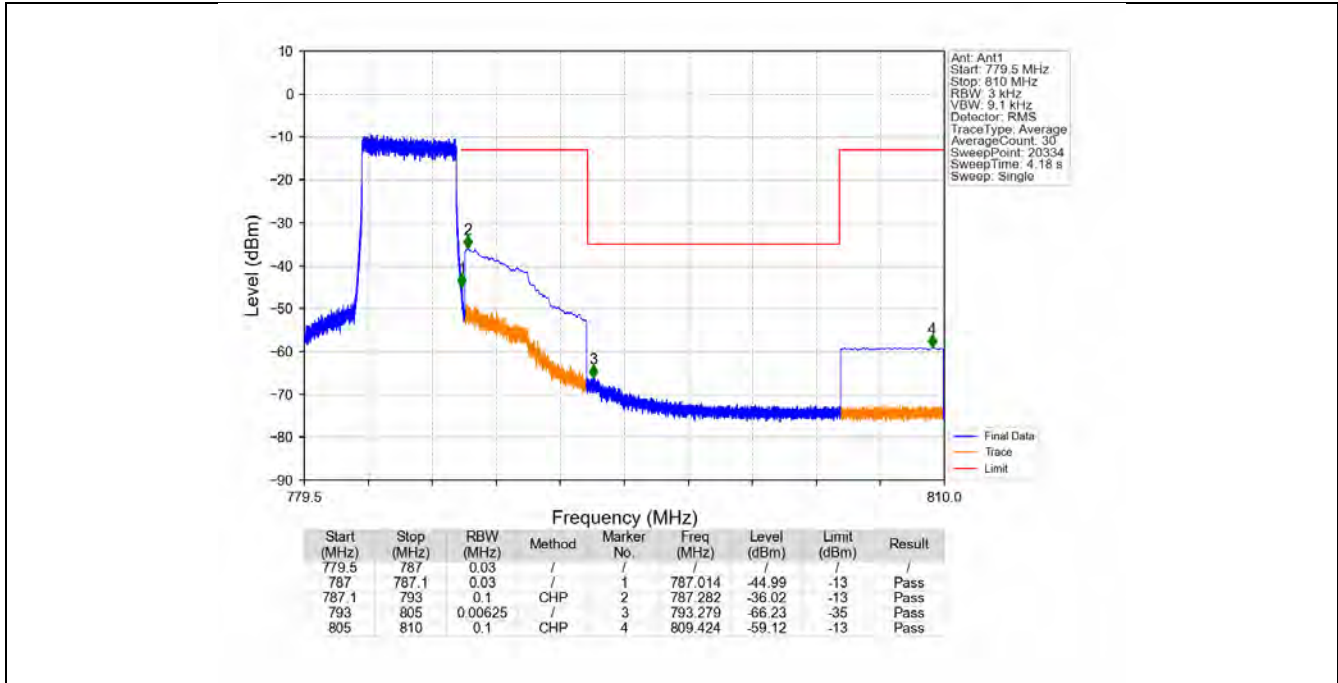


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## 5.2 B13\_10MHz

### 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	0	Refer To Test Graph	Pass	
		49	0	Refer To Test Graph	Pass	
	782	1	0	Refer To Test Graph	Pass	
		49	0	Refer To Test Graph	Pass	
16QAM	782	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
	782	1	0	Refer To Test Graph	Pass	
		49	0	Refer To Test Graph	Pass	
	782	1	0	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	0	Refer To Test Graph	Pass	
		49	0	Refer To Test Graph	Pass	
	782	1	0	Refer To Test Graph	Pass	
		49	0	Refer To Test Graph	Pass	
256QAM	782	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
	782	1	0	Refer To Test Graph	Pass	
		49	0	Refer To Test Graph	Pass	
	782	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	



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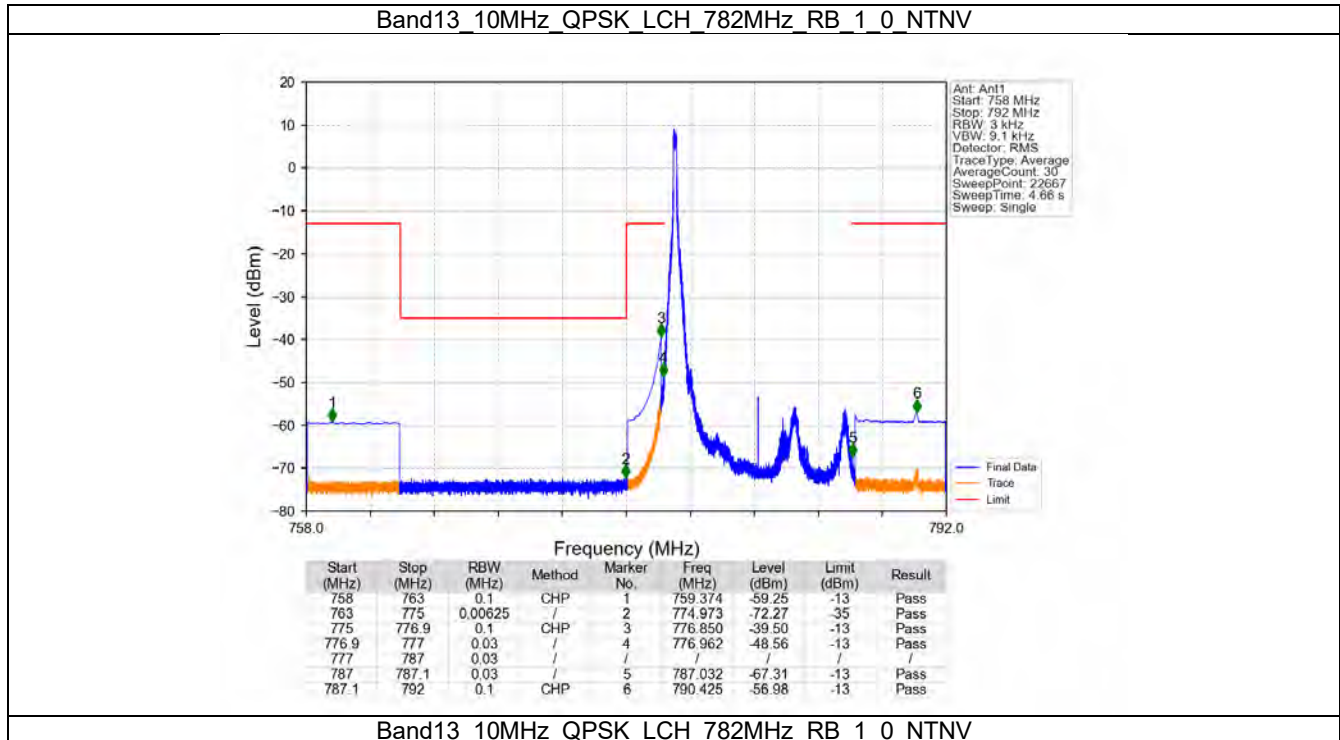
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5.2.2 Test Graph



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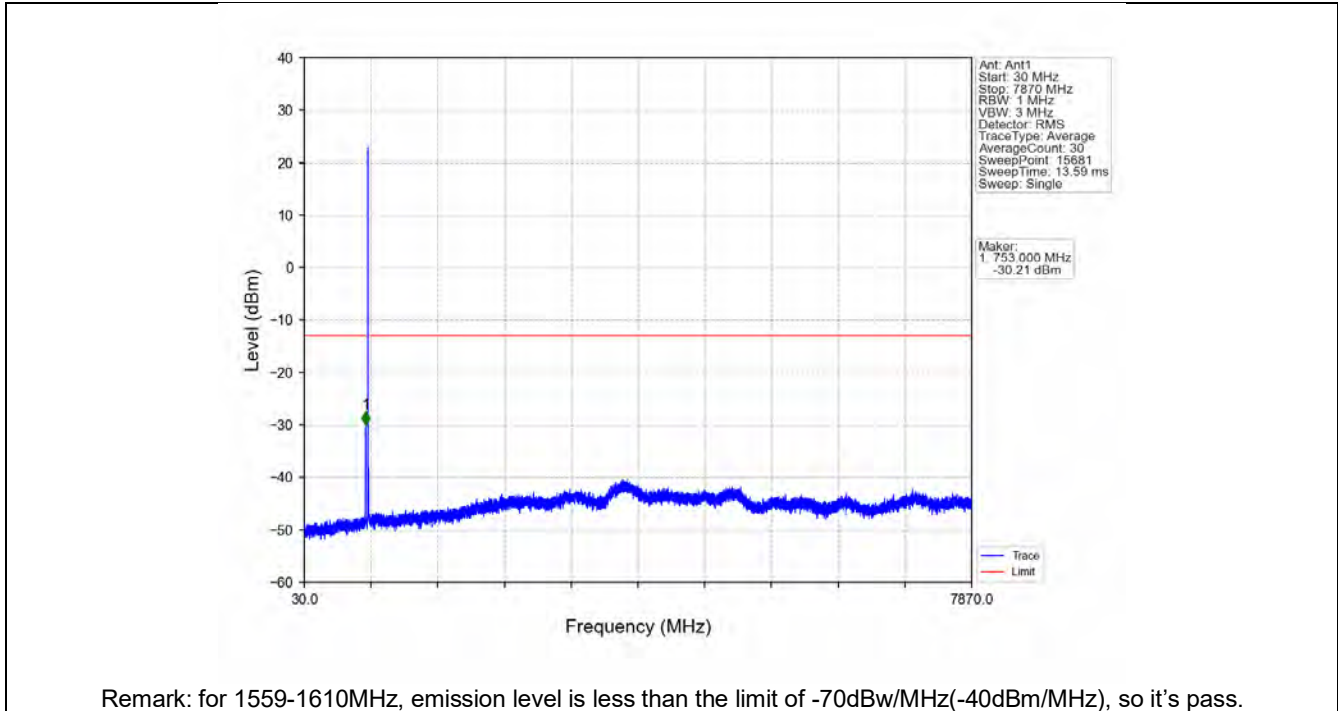


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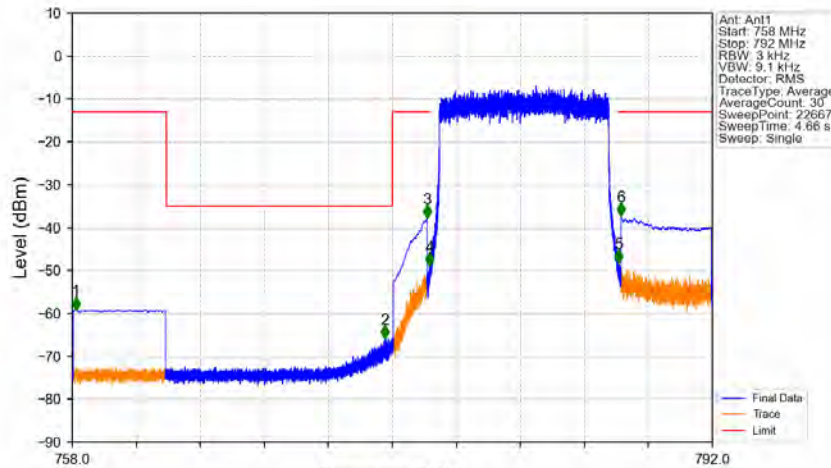
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Band13 10MHz QPSK LCH 782MHz RB 50 0 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	758.197	-59.22	-13	Pass
763	775	0.00625	/	2	774.610	-65.89	-35	Pass
775	776.9	0.1	CHP	3	776.850	-37.87	-13	Pass
776.9	777	0.03	/	4	776.985	-48.85	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.003	-48.22	-13	Pass
787.1	792	0.1	CHP	6	787.150	-37.31	-13	Pass

Band13 10MHz QPSK MCH 782MHz RB 1 0 NTN



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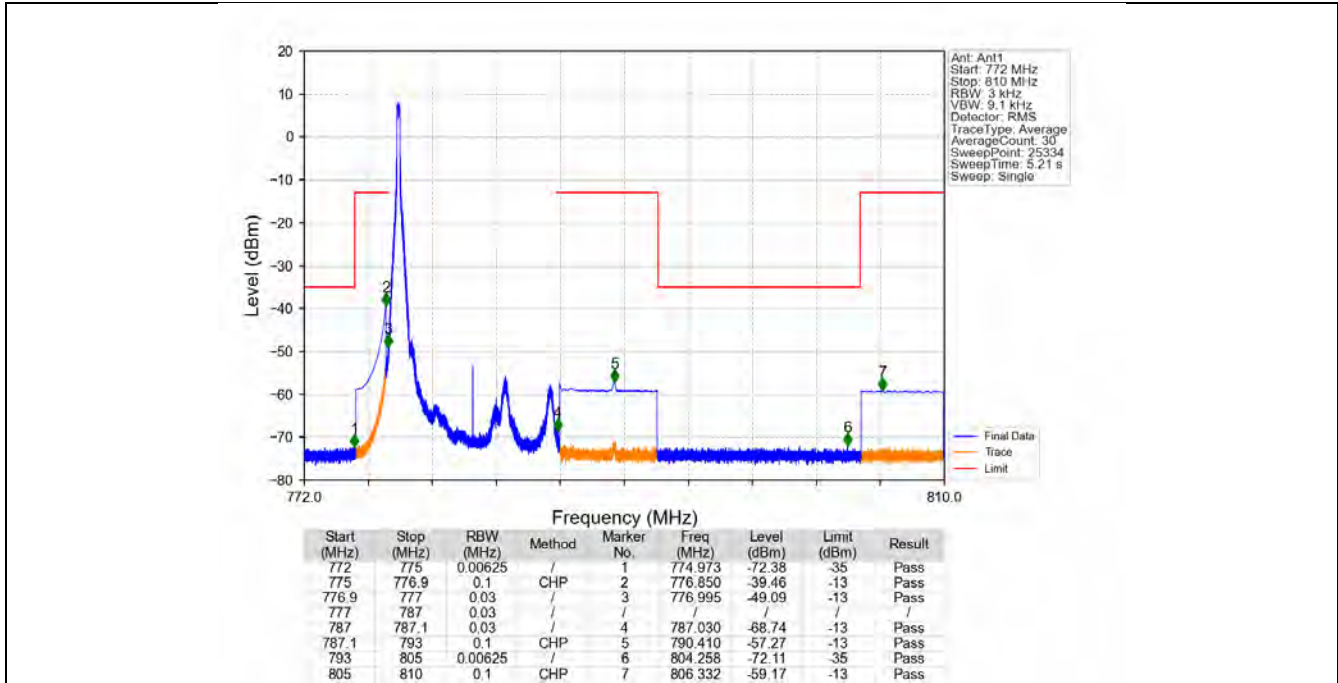


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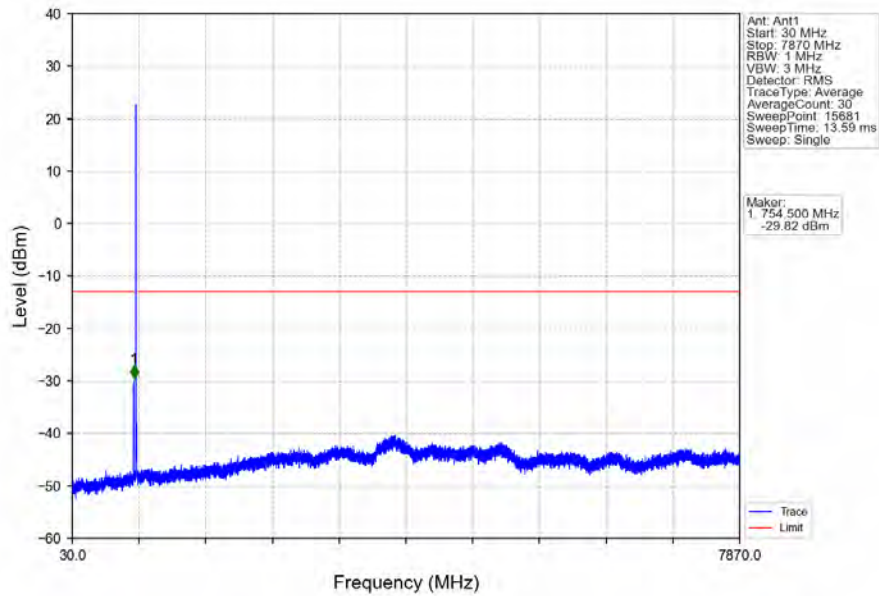
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Band13 10MHz QPSK MCH 782MHz RB 1 0 NTNV



Remark: for 1559-1610MHz, emission level is less than the limit of -70dBw/MHz(-40dBm/MHz), so it's pass.

Band13 10MHz QPSK MCH 782MHz RB 1 49 NTNV



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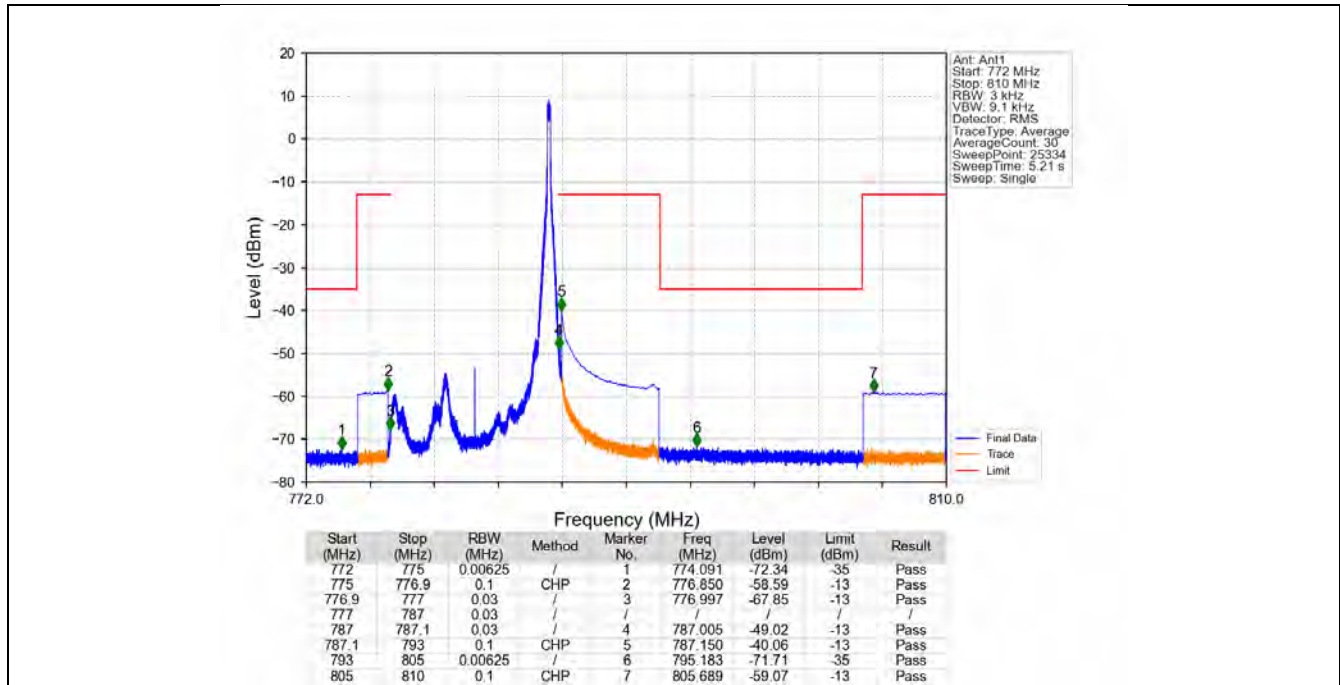


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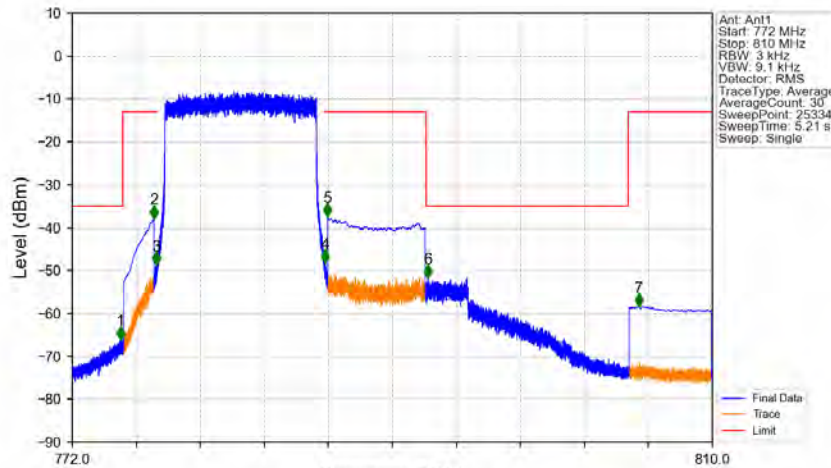
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Band13 10MHz QPSK MCH 782MHz RB 50 0 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.871	-66.12	-35	Pass
775	776.9	0.1	CHP	2	776.850	-37.89	-13	Pass
776.9	777	0.03	/	3	777.000	-48.76	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.021	-48.18	-13	Pass
787.1	793	0.1	CHP	5	787.150	-37.45	-13	Pass
793	805	0.00625	/	6	793.119	-51.77	-35	Pass
805	810	0.1	CHP	7	805.629	-58.40	-13	Pass

Band13 10MHz QPSK HCH 782MHz RB 1 0 NTN



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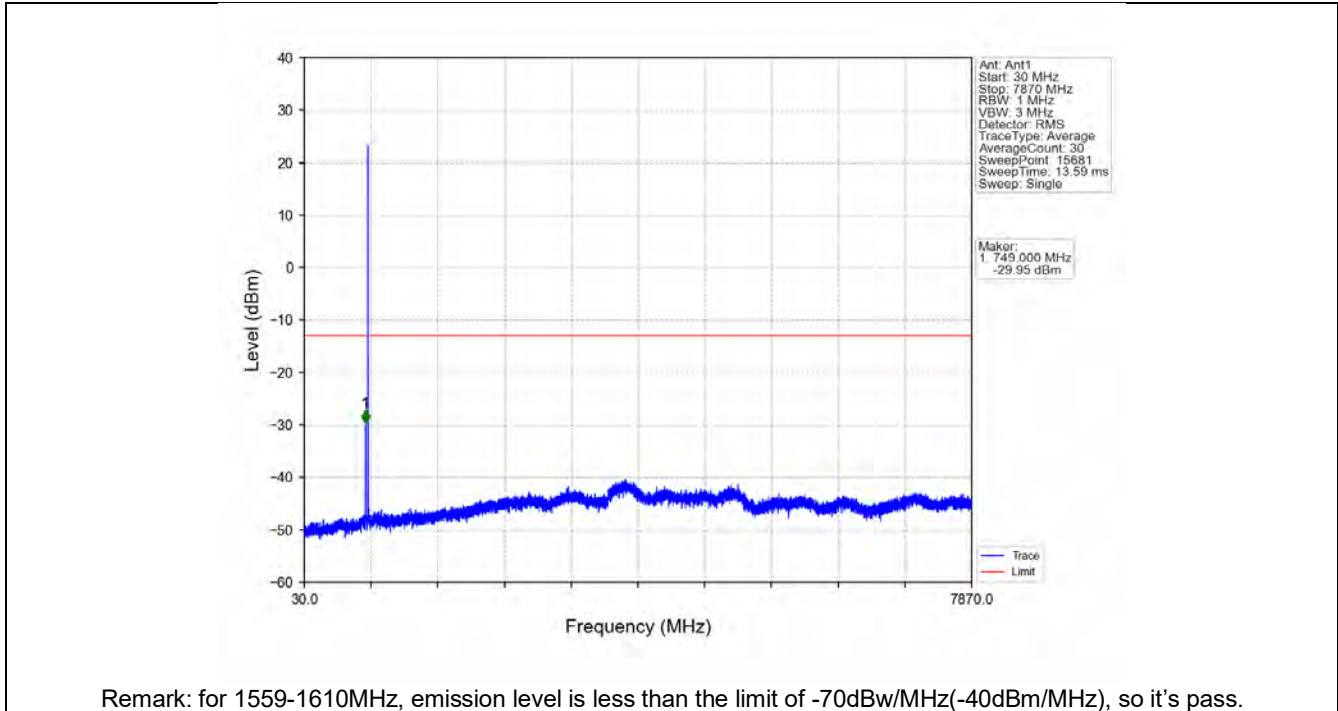


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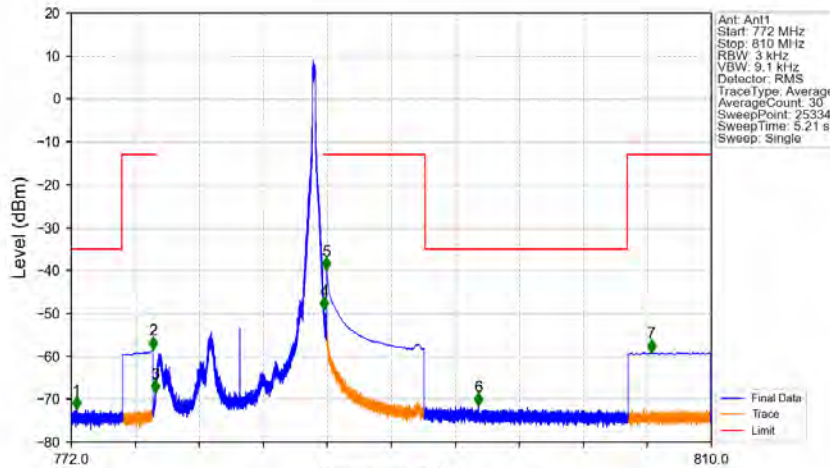
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Band13 10MHz QPSK HCH 782MHz RB 1 49 NTNV



Band13 10MHz QPSK HCH 782MHz RB 50 0 NTNV



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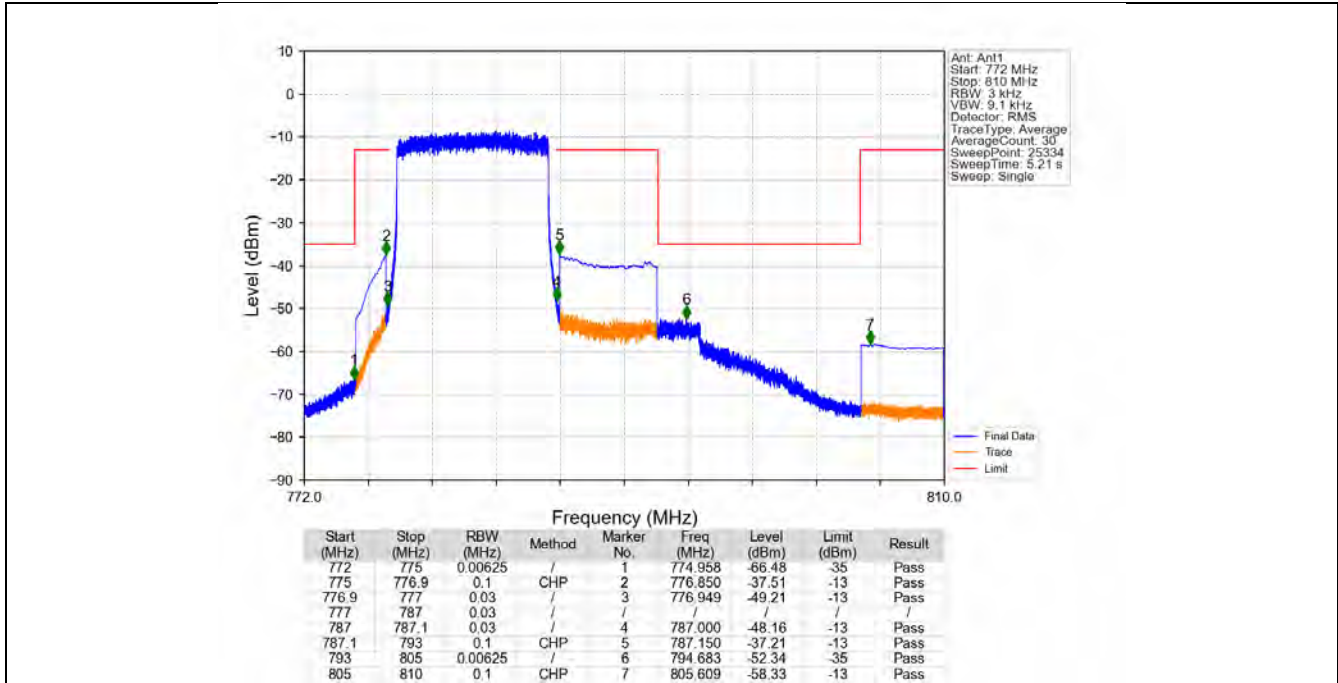


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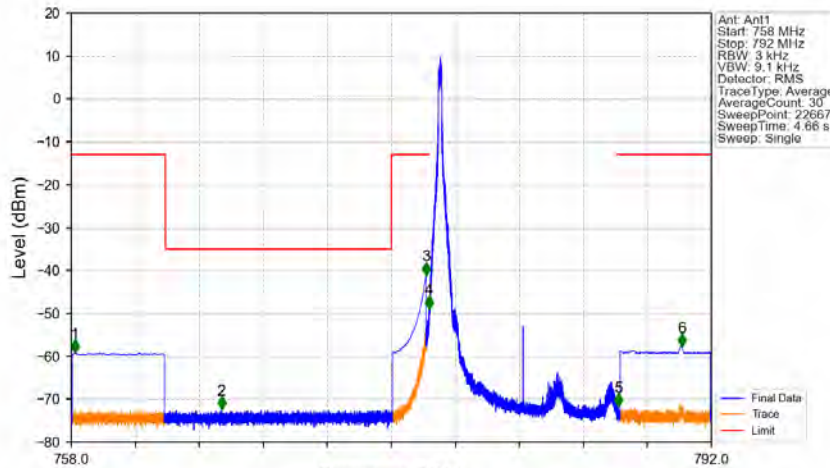
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Band13 10MHz 16QAM LCH 782MHz RB 1 0 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	758.195	-59.17	-13	Pass
763	775	0.00625	/	2	765.979	-72.41	-35	Pass
775	776.9	0.1	CHP	3	776.839	-41.14	-13	Pass
776.9	777	0.03	/	4	776.995	-48.89	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.060	-71.79	-13	Pass
787.1	792	0.1	CHP	6	790.426	-57.75	-13	Pass

Band13 10MHz 16QAM LCH 782MHz RB 1 0 NTN



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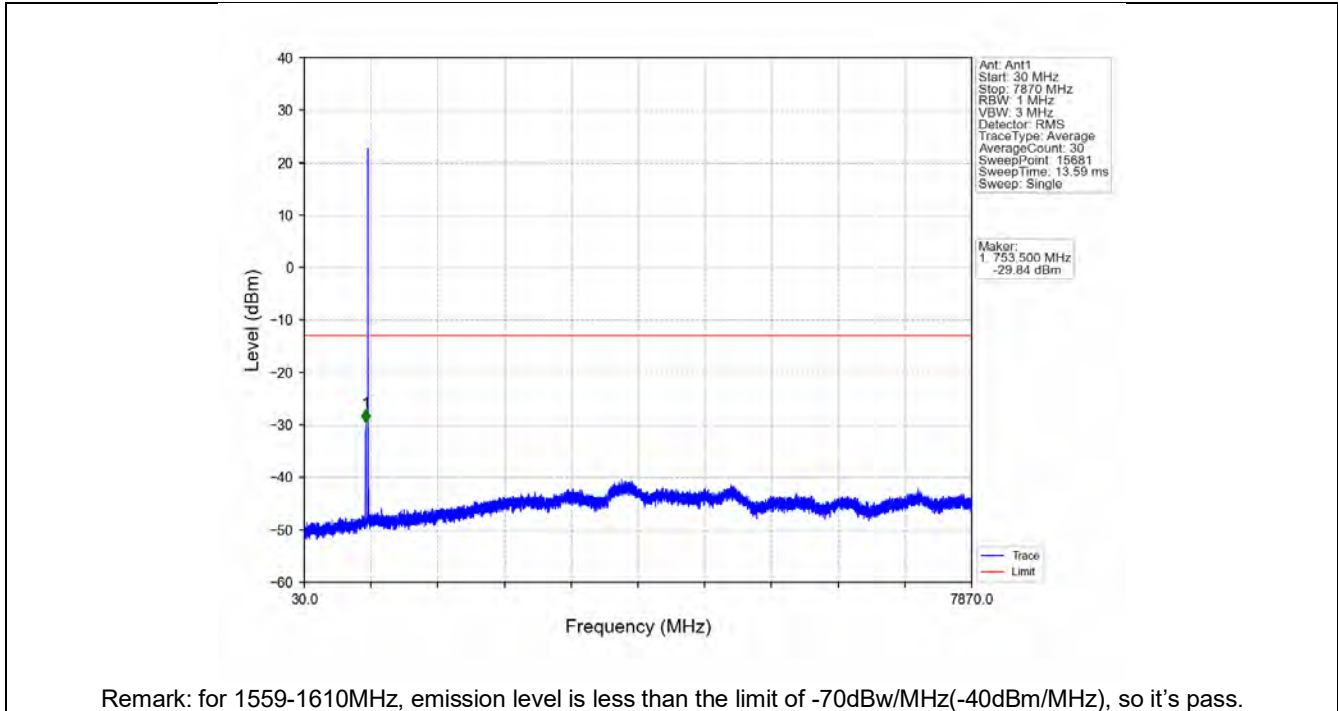


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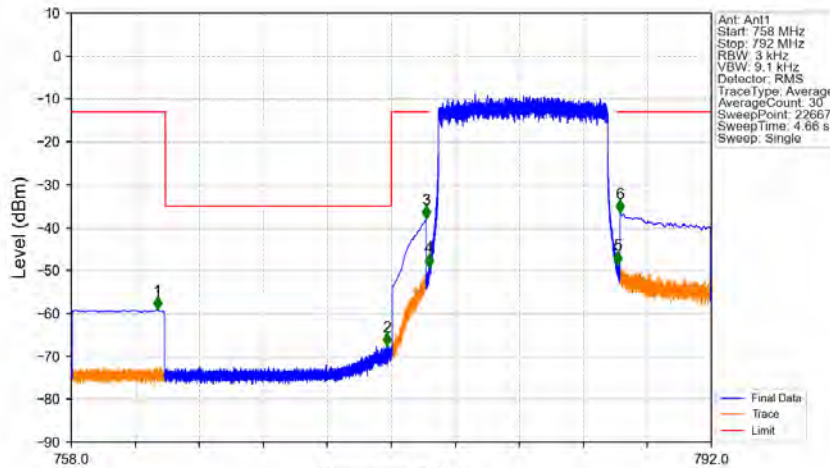
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Band13\_10MHz\_16QAM\_LCH\_782MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	762.569	-59.21	-13	Pass
763	775	0.00625	/	2	774.751	-67.63	-35	Pass
775	776.9	0.1	CHP	3	776.850	-37.97	-13	Pass
776.9	777	0.03	/	4	776.994	-49.18	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.006	-48.65	-13	Pass
787.1	792	0.1	CHP	6	787.150	-36.62	-13	Pass

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



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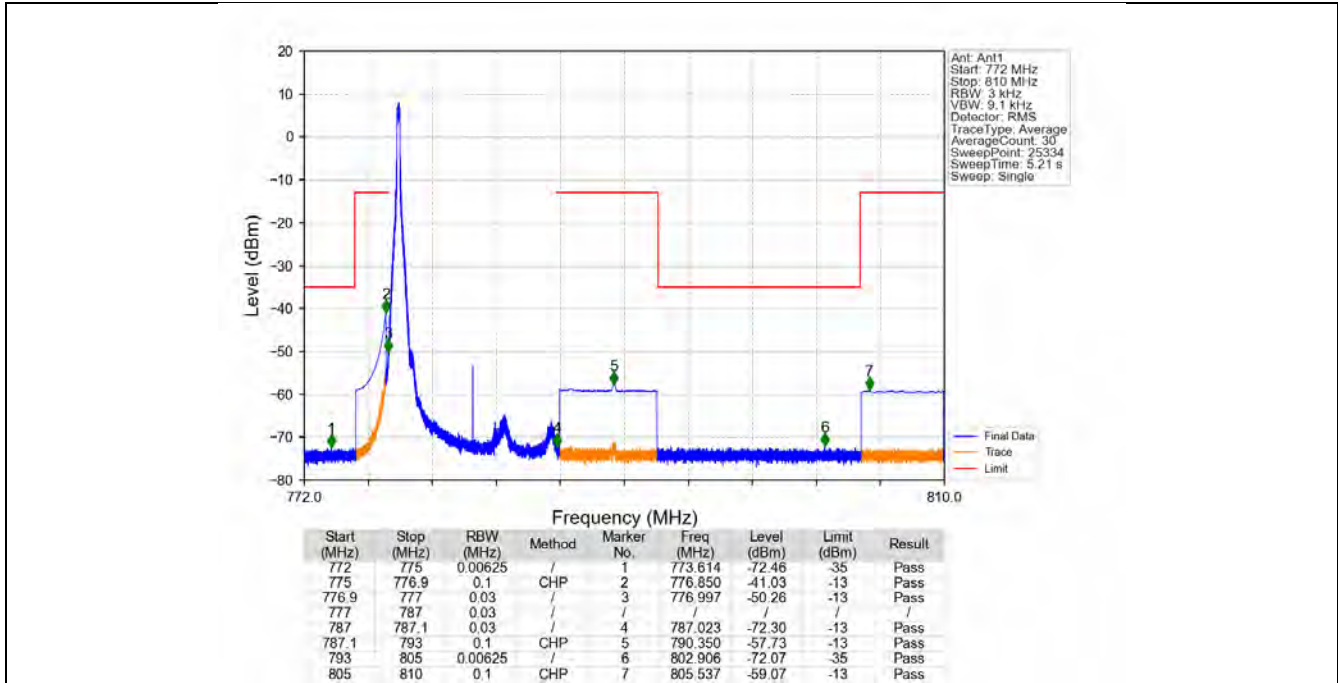


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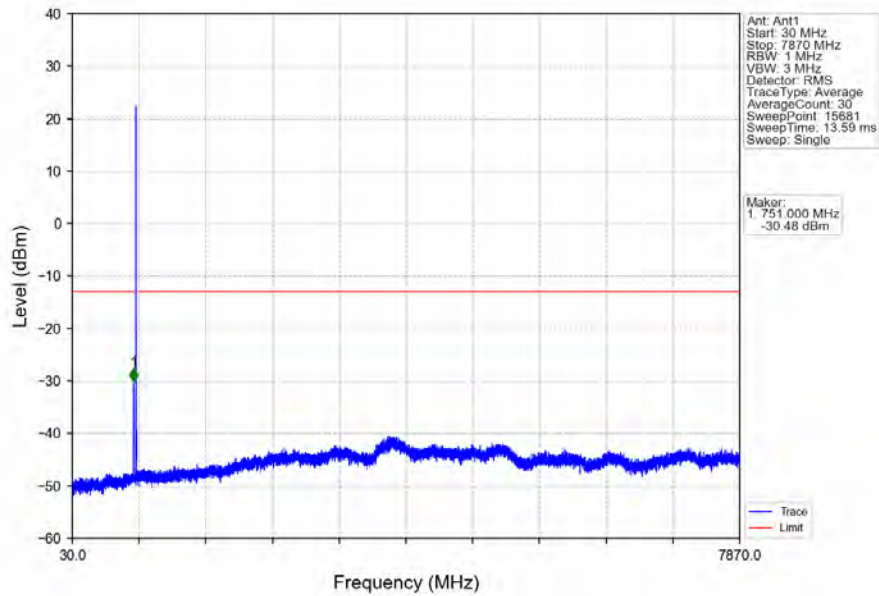
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Band13\_10MHz\_16QAM\_MCH\_782MHz\_RB\_1\_0\_NTNV



Remark: for 1559-1610MHz, emission level is less than the limit of -70dBw/MHz(-40dBm/MHz), so it's pass.

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



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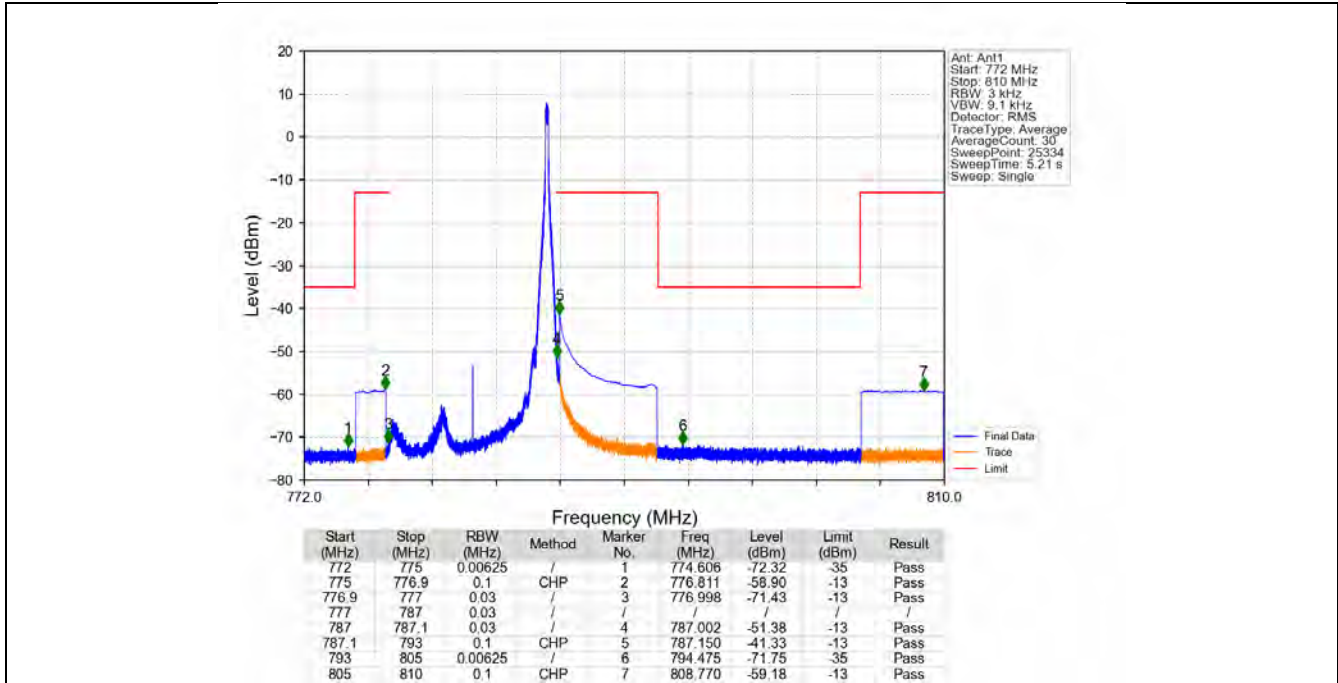


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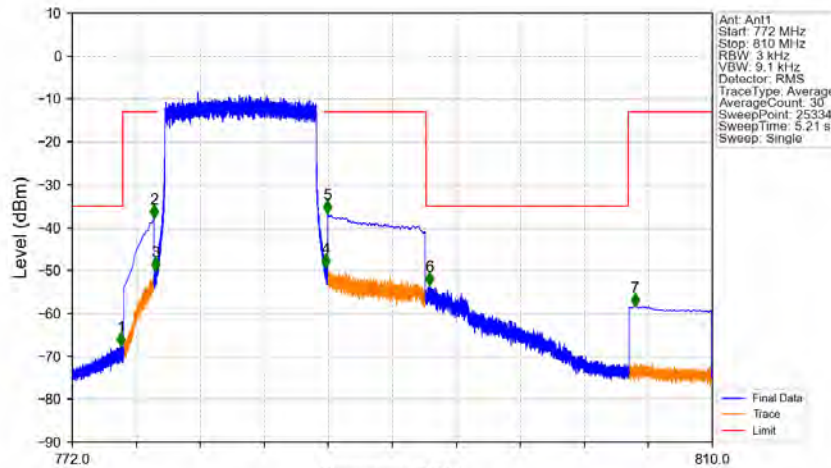
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Band13\_10MHz\_16QAM\_MCH\_782MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.894	-67.64	-35	Pass
775	776.9	0.1	CHP	2	776.850	-37.85	-13	Pass
776.9	777	0.03	/	3	776.949	-50.16	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.062	-49.21	-13	Pass
787.1	793	0.1	CHP	5	787.153	-36.80	-13	Pass
793	805	0.00625	/	6	793.182	-53.52	-35	Pass
805	810	0.1	CHP	7	805.411	-58.43	-13	Pass

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



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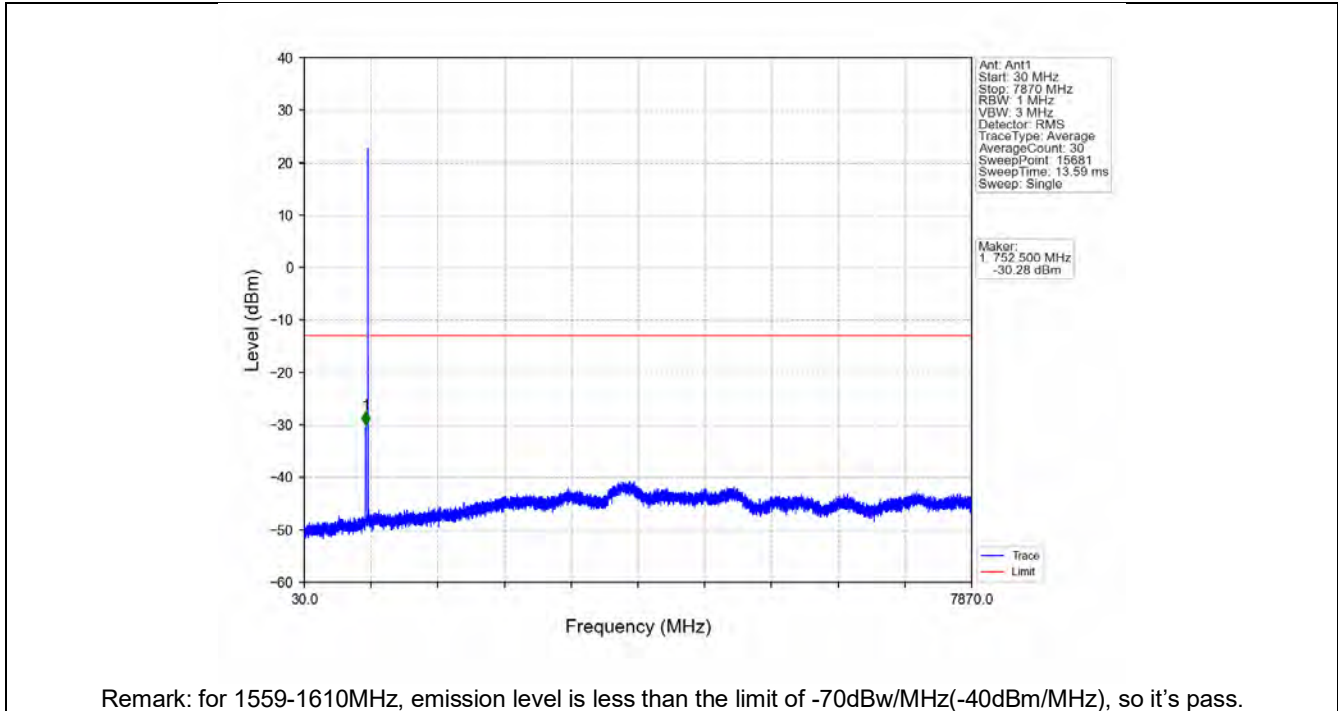


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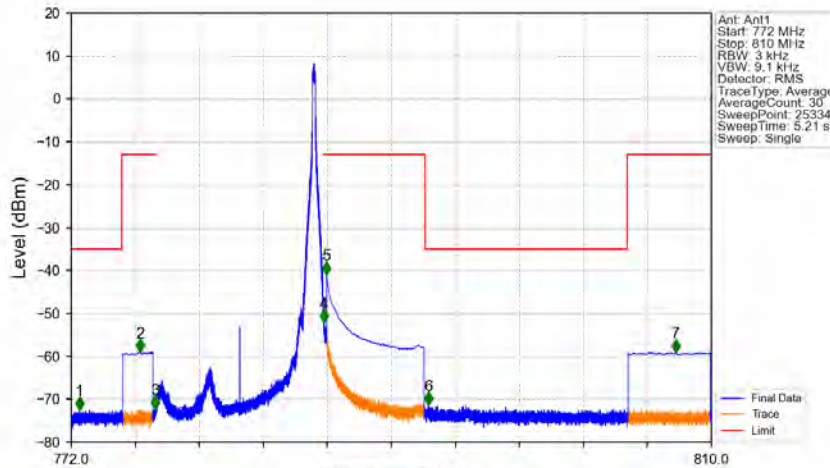
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Band13\_10MHz\_16QAM\_HCH\_782MHz\_RB\_1\_49\_NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	772.497	-72.51	-35	Pass
775	776.9	0.1	CHP	2	776.076	-59.01	-13	Pass
776.9	777	0.03	/	3	776.977	-72.29	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.005	-52.15	-13	Pass
787.1	793	0.1	CHP	5	787.150	-40.93	-13	Pass
793	805	0.00625	/	6	793.200	-71.42	-35	Pass
805	810	0.1	CHP	7	807.889	-59.13	-13	Pass

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



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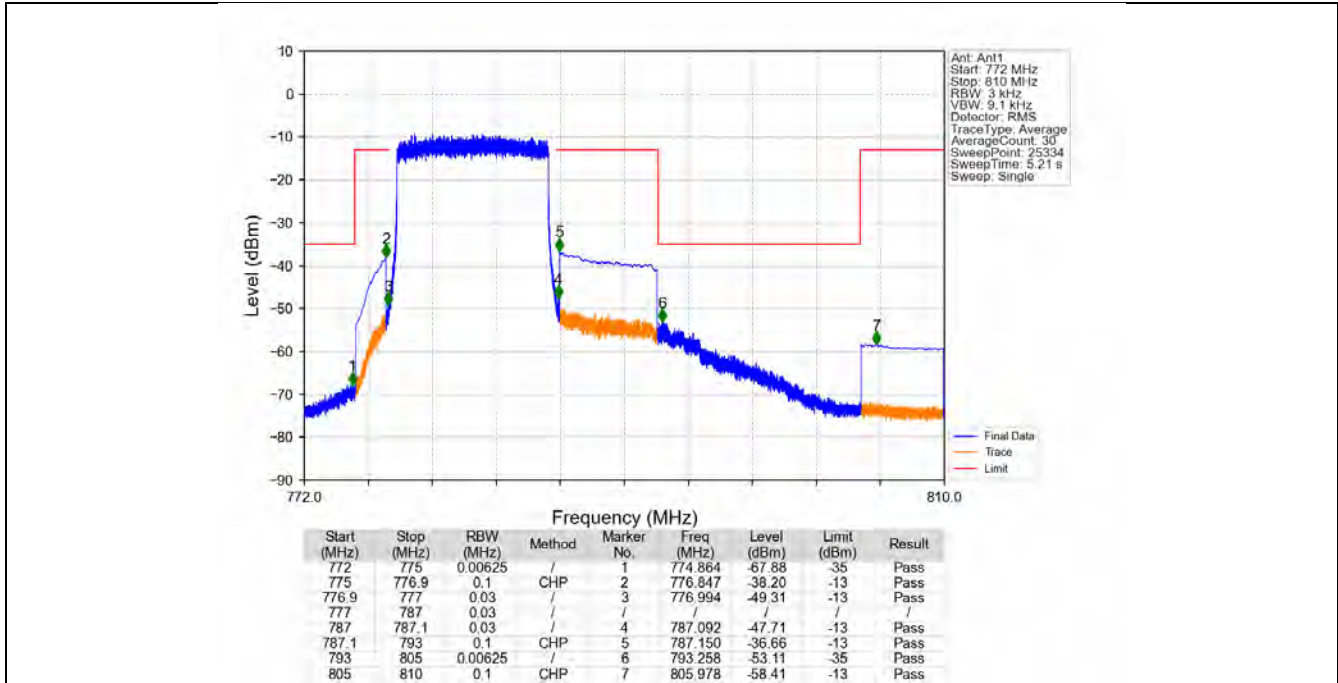


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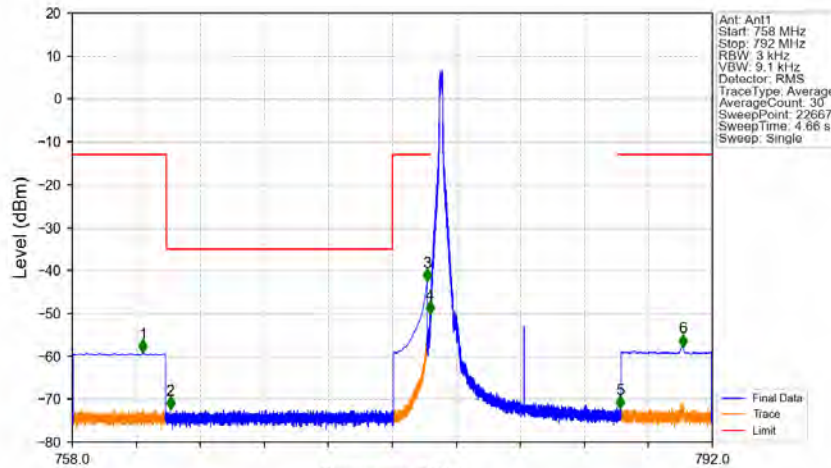
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Band13 10MHz 64QAM LCH 782MHz RB 1 0 NTN



Band13 10MHz 64QAM LCH 782MHz RB 1 0 NTN



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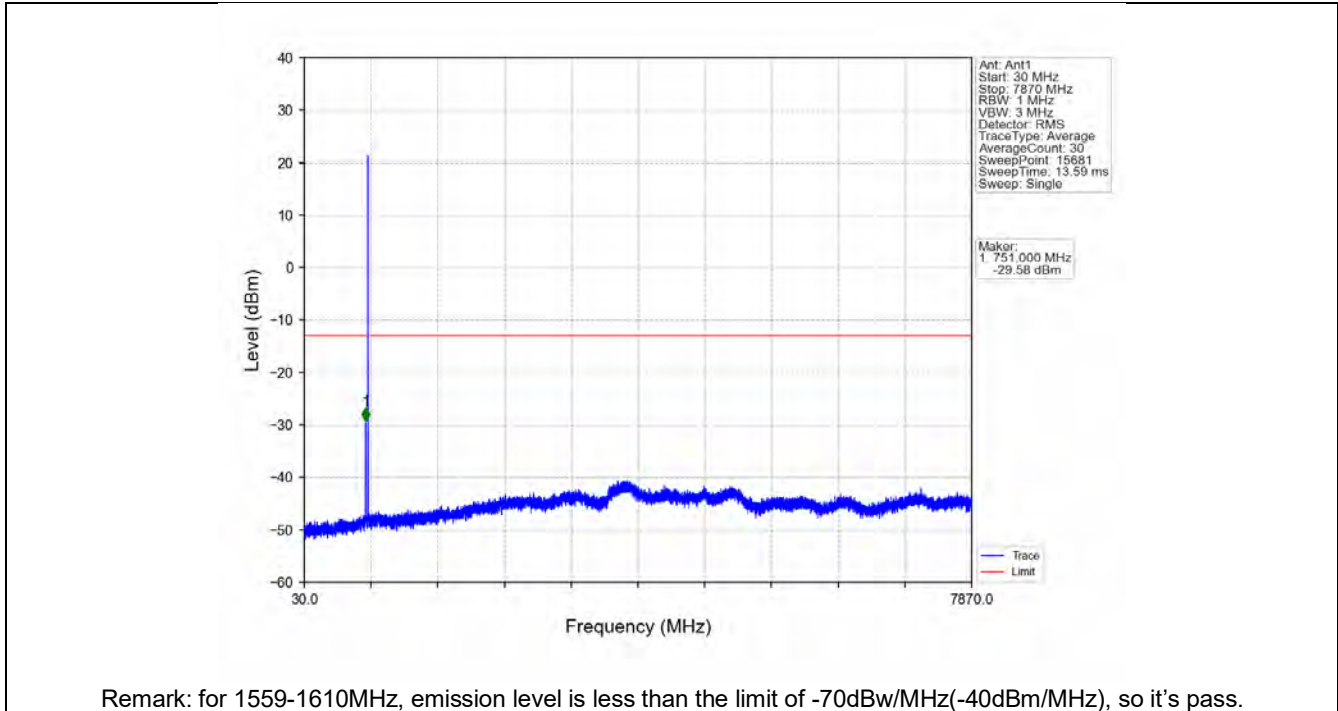


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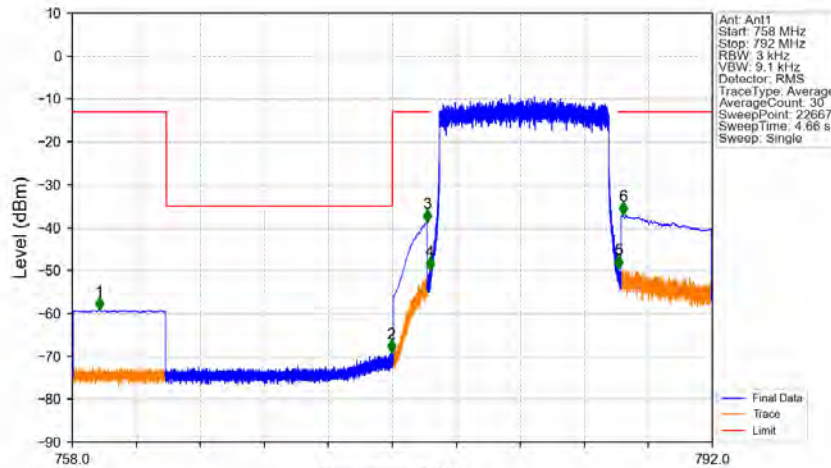
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Band13\_10MHz\_64QAM\_LCH\_782MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
758	763	0.1	CHP	1	759.445	-59.26	-13	Pass
763	775	0.00625	/	2	774.941	-69.15	-35	Pass
775	776.9	0.1	CHP	3	776.847	-38.80	-13	Pass
776.9	777	0.03	/	4	776.997	-49.97	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	5	787.029	-49.61	-13	Pass
787.1	792	0.1	CHP	6	787.260	-37.13	-13	Pass

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



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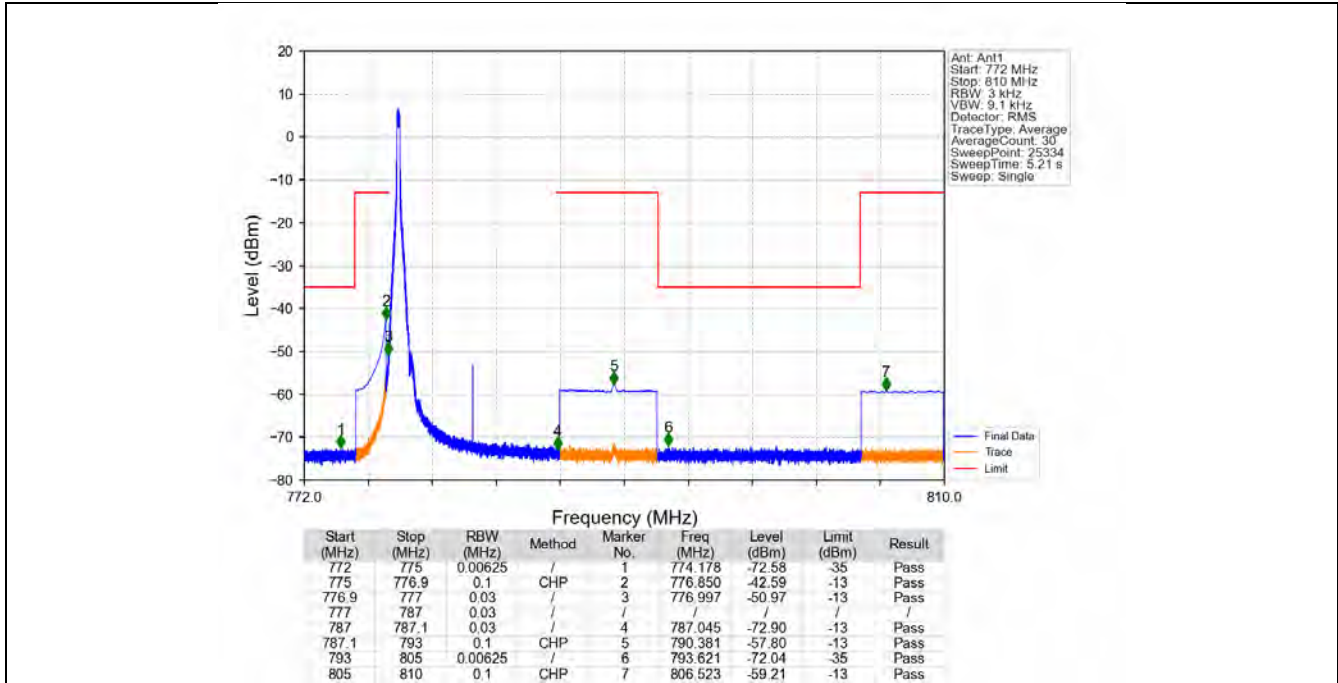


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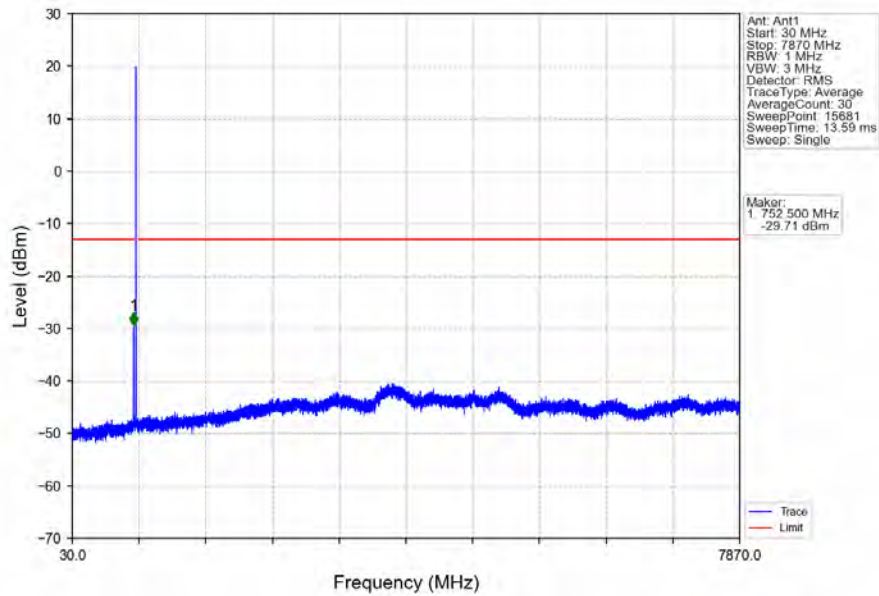
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Band13\_10MHz\_64QAM\_MCH\_782MHz\_RB\_1\_0\_NTNV



Remark: for 1559-1610MHz, emission level is less than the limit of -70dBw/MHz(-40dBm/MHz), so it's pass.

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



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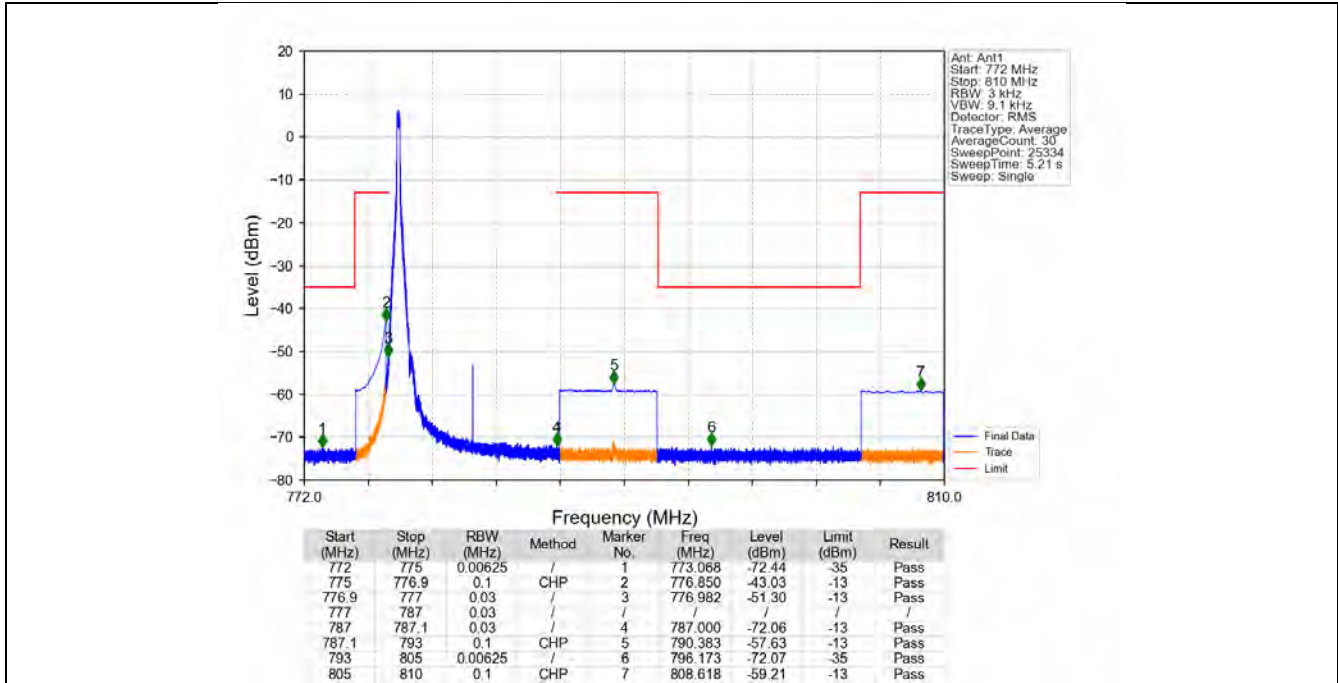


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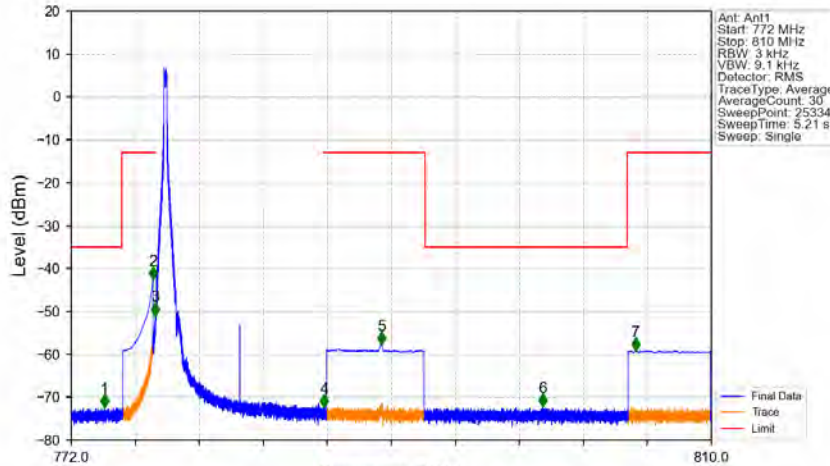
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Band13\_10MHz\_64QAM\_MCH\_782MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	773.959	-72.40	-35	Pass
775	776.9	0.1	CHP	2	776.850	-42.66	-13	Pass
776.9	777	0.03	/	3	776.995	-50.99	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.006	-72.44	-13	Pass
787.1	793	0.1	CHP	5	790.404	-57.84	-13	Pass
793	805	0.00625	/	6	799.989	-72.32	-35	Pass
805	810	0.1	CHP	7	805.489	-59.19	-13	Pass

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



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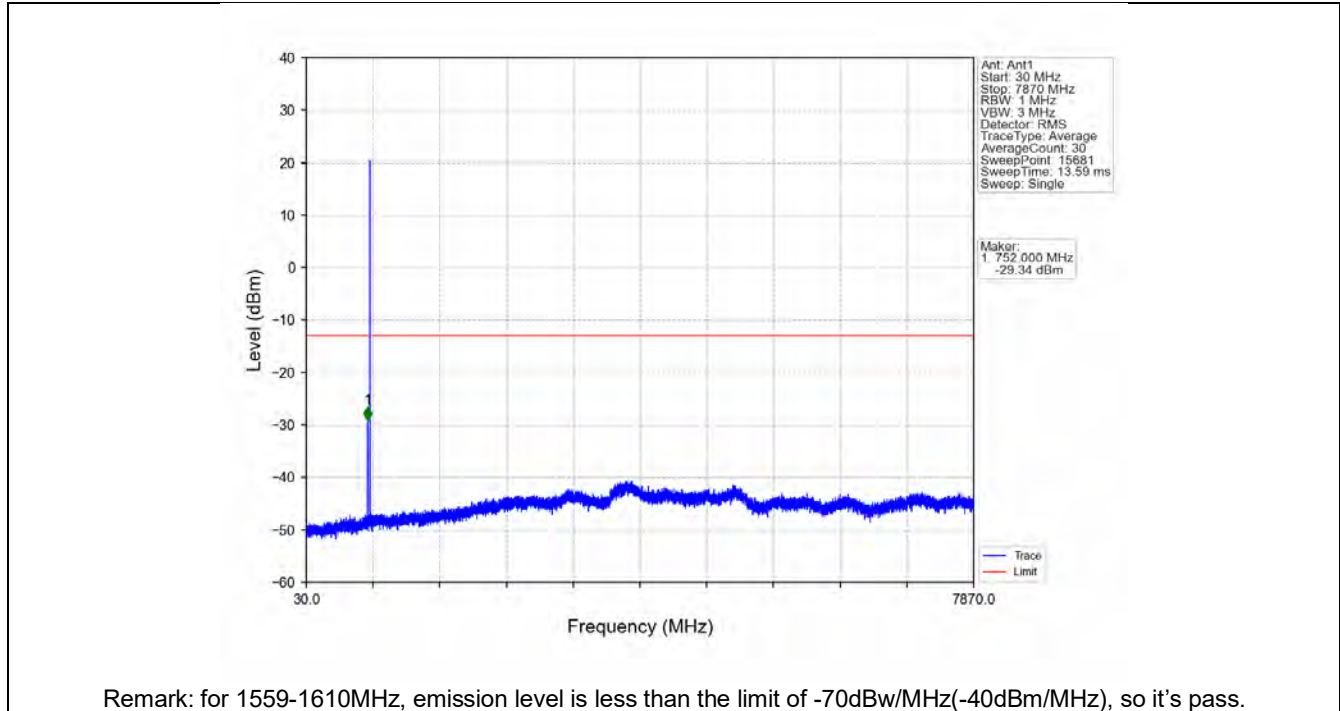


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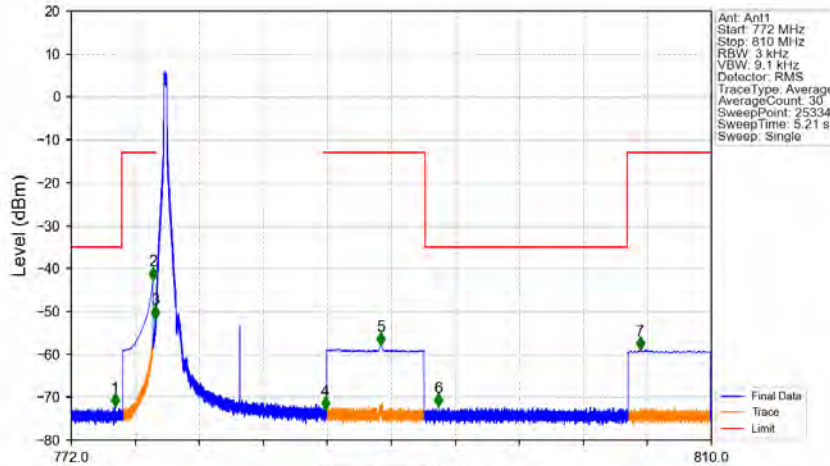
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Band13\_10MHz\_64QAM\_HCH\_782MHz\_RB\_1\_49\_NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
772	775	0.00625	/	1	774.603	-72.23	-35	Pass
775	776.9	0.1	CHP	2	776.850	-42.70	-13	Pass
776.9	777	0.03	/	3	776.997	-51.72	-13	Pass
777	787	0.03	/	/	/	/	/	/
787	787.1	0.03	/	4	787.093	-72.89	-13	Pass
787.1	793	0.1	CHP	5	790.350	-57.97	-13	Pass
793	805	0.00625	/	6	793.807	-72.28	-35	Pass
805	810	0.1	CHP	7	805.788	-59.04	-13	Pass

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



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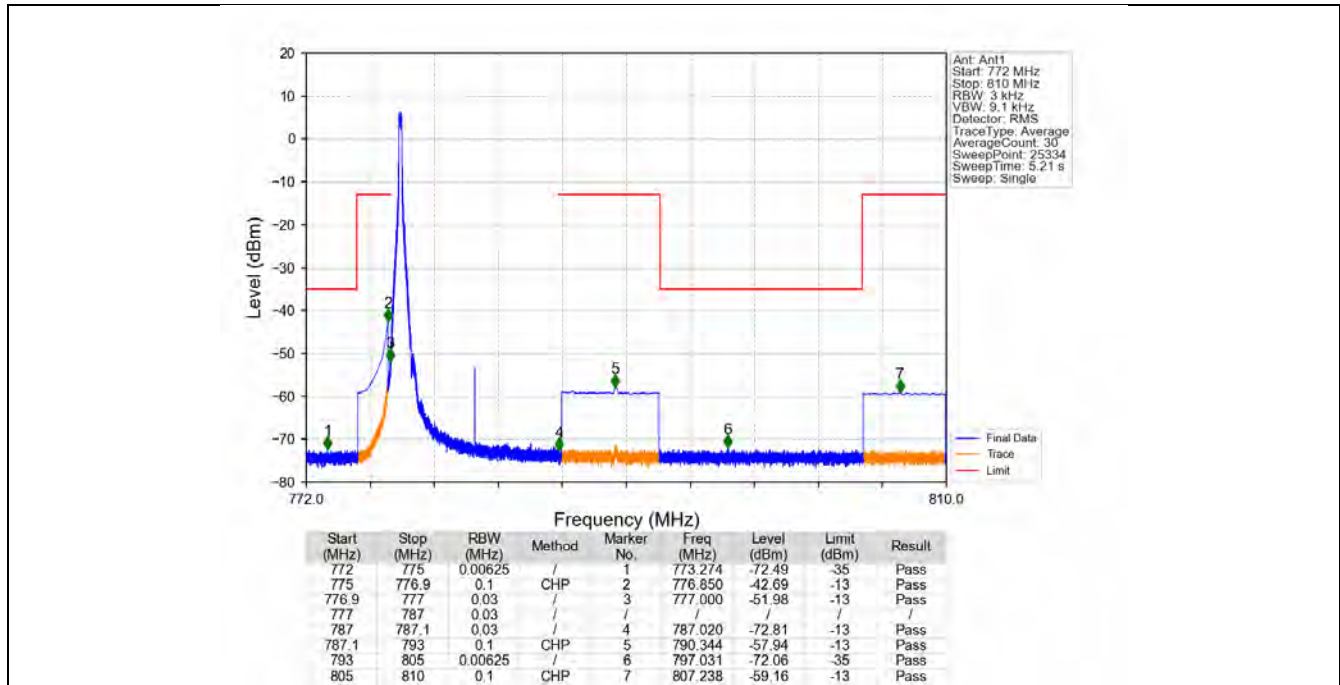


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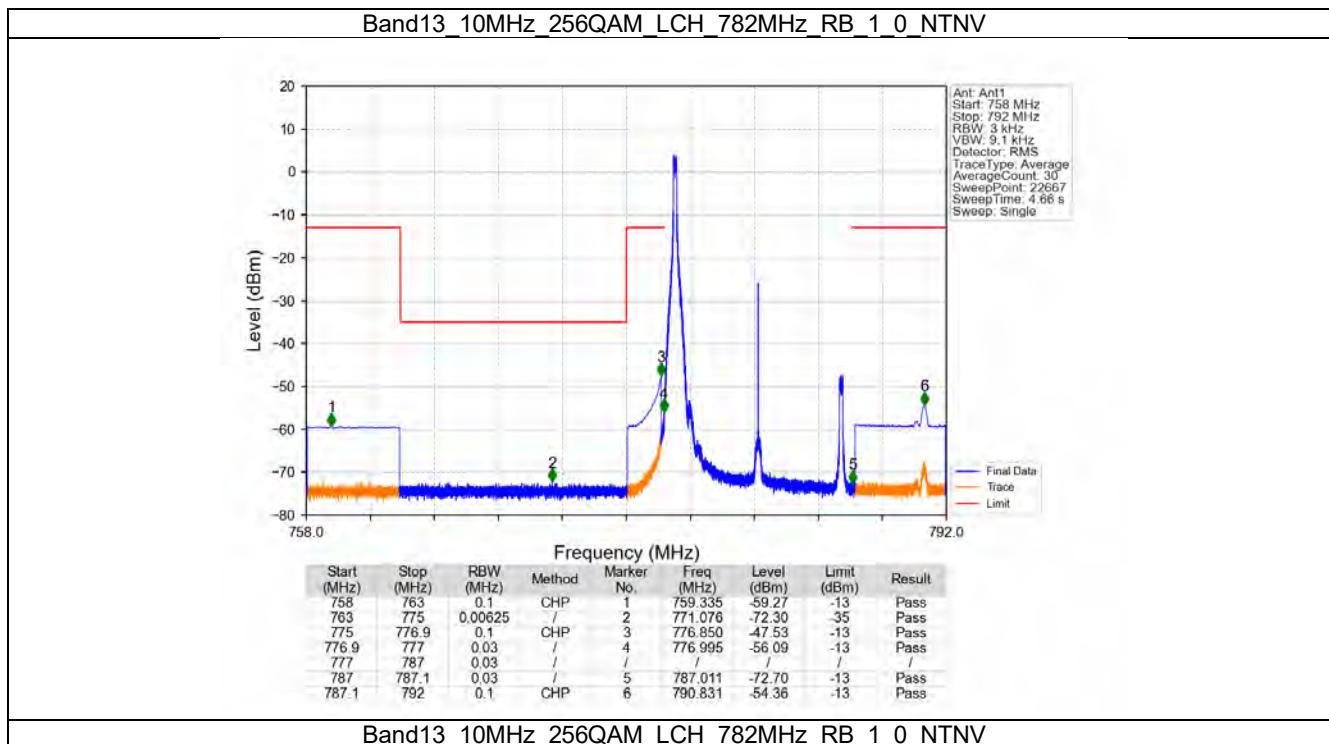
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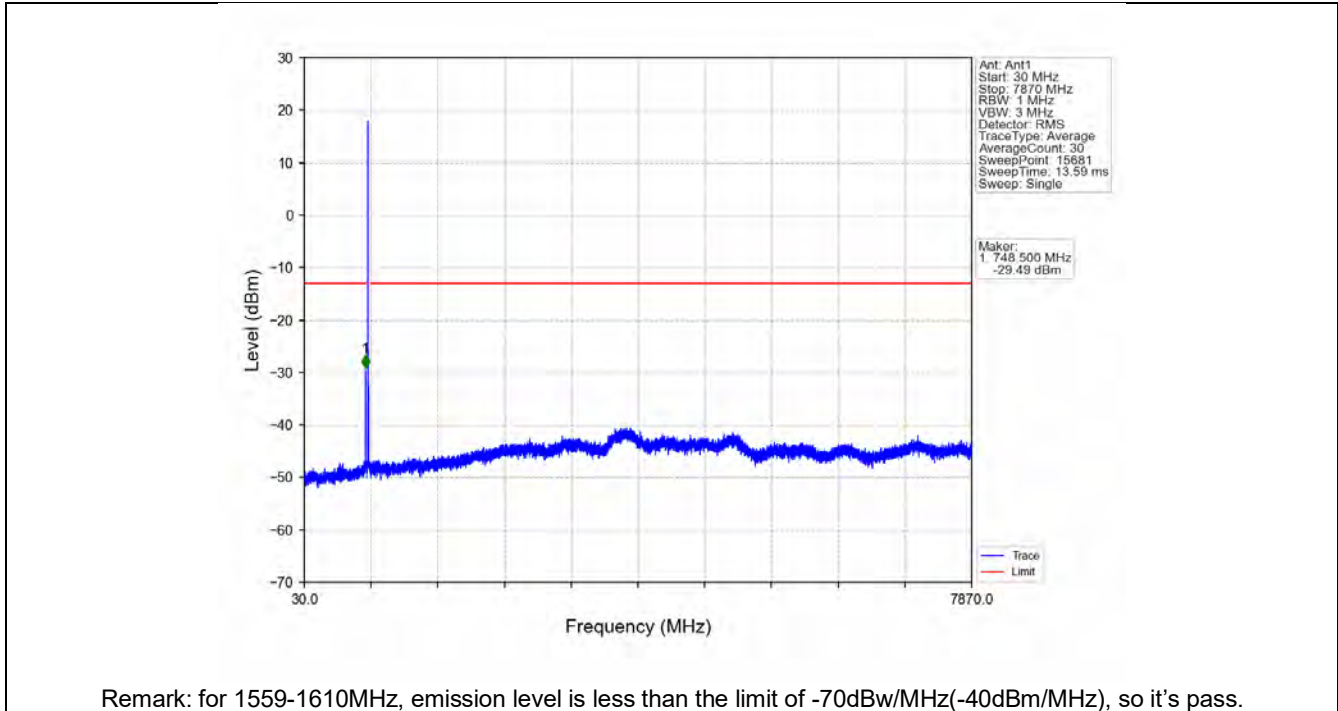


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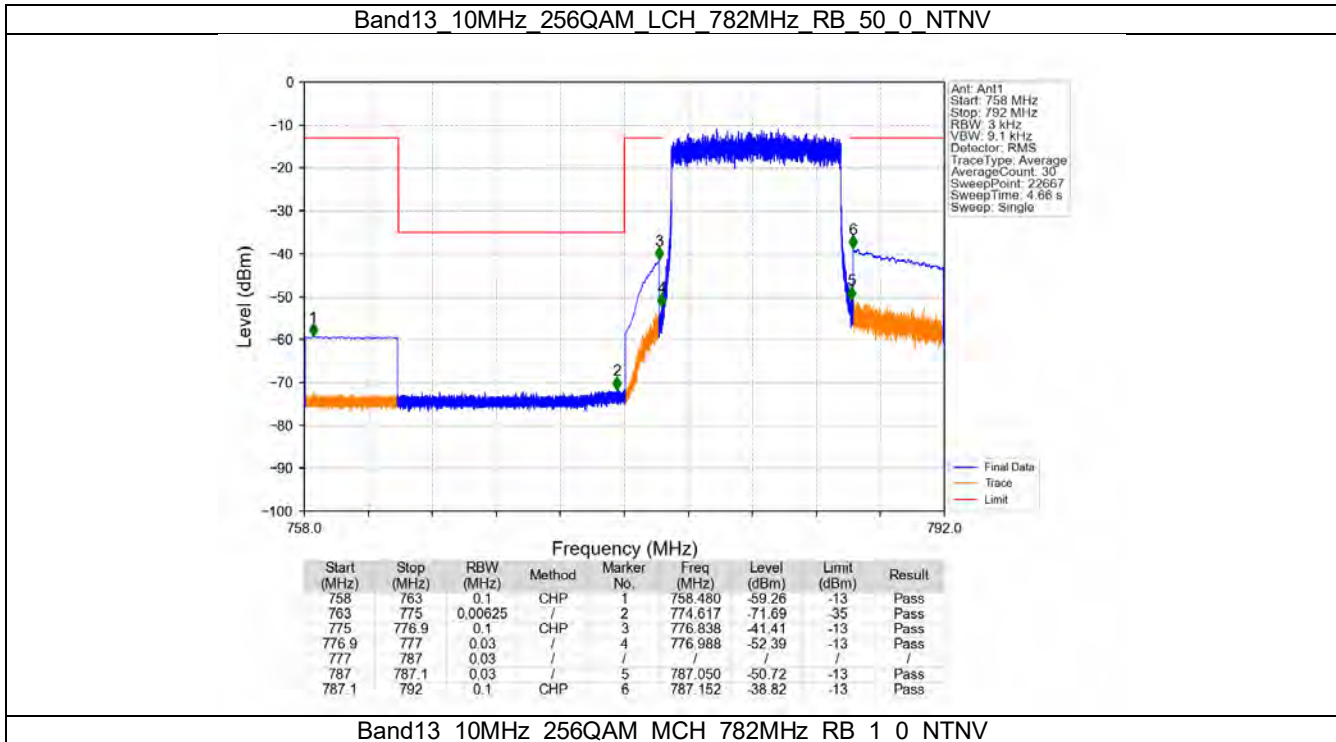


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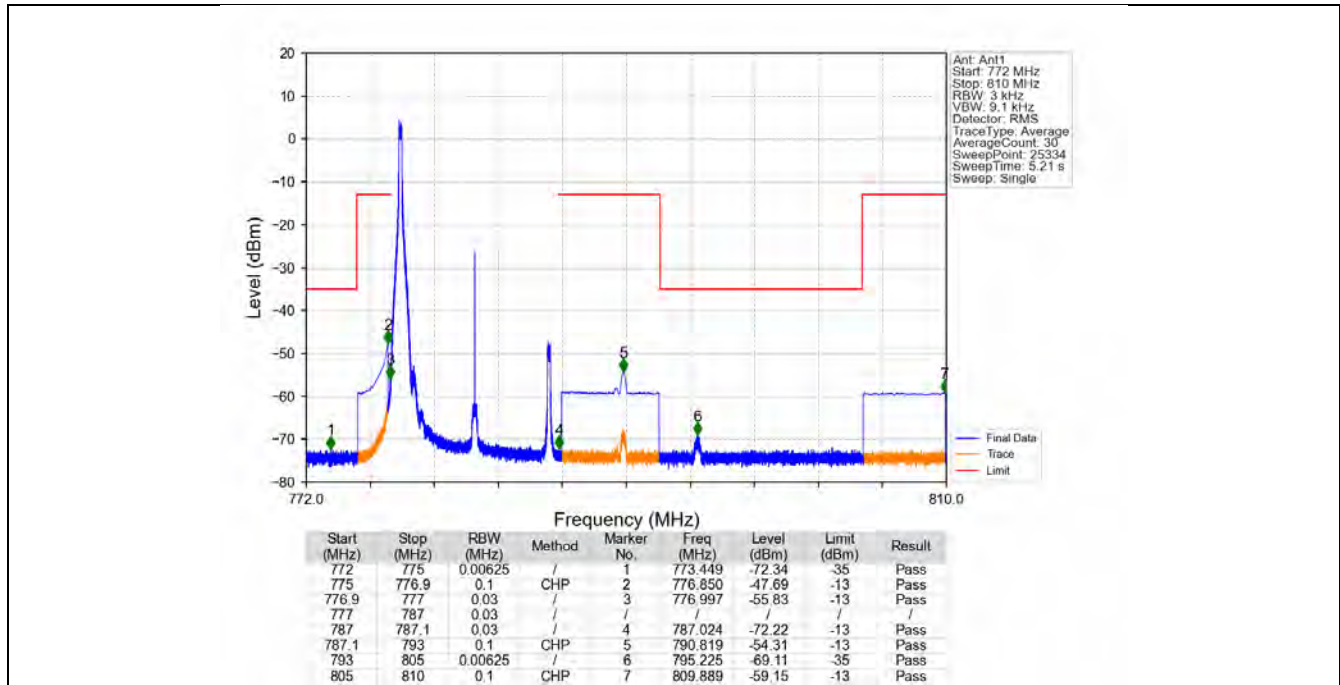


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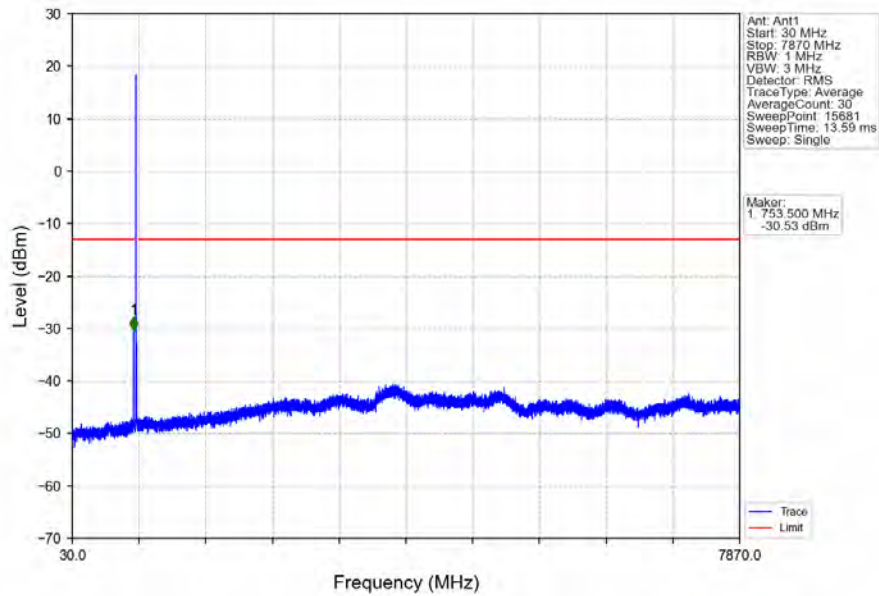
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Band13\_10MHz\_256QAM\_MCH\_782MHz\_RB\_1\_0\_NTNV



Remark: for 1559-1610MHz, emission level is less than the limit of -70dBw/MHz(-40dBm/MHz), so it's pass.

Band13\_10MHz\_256QAM\_MCH\_782MHz\_RB\_1\_49\_NTNV



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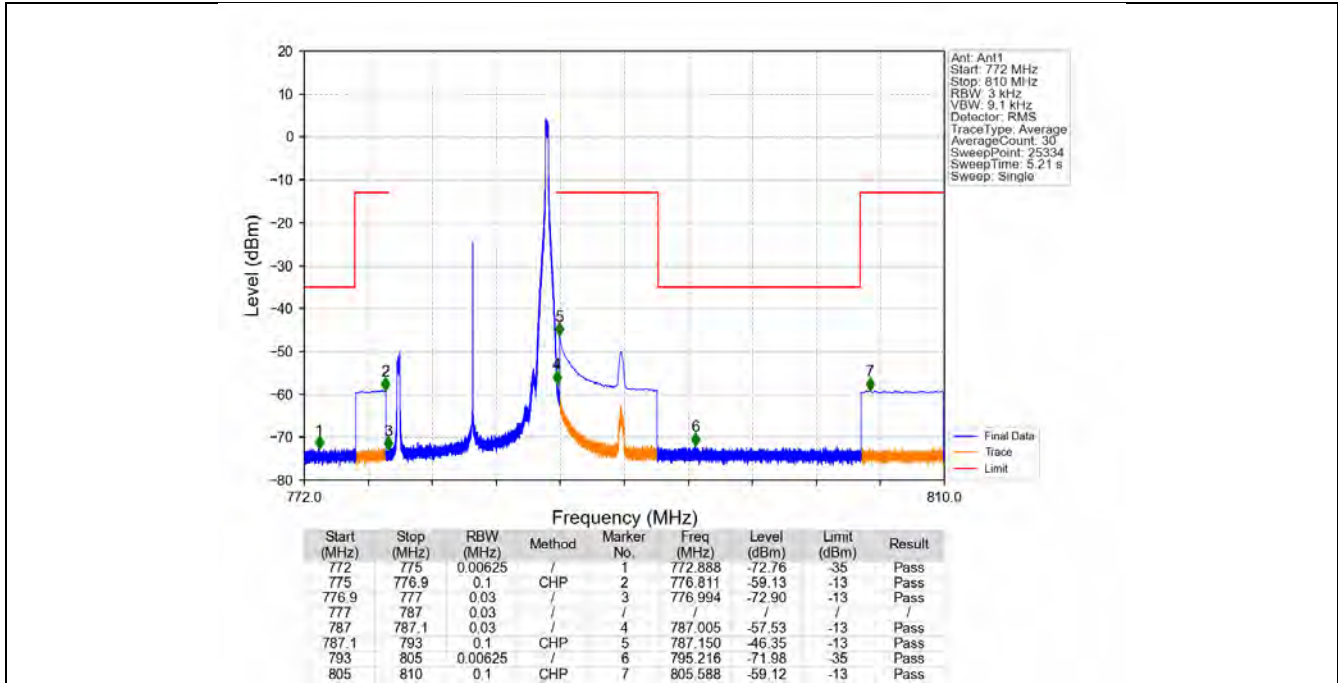


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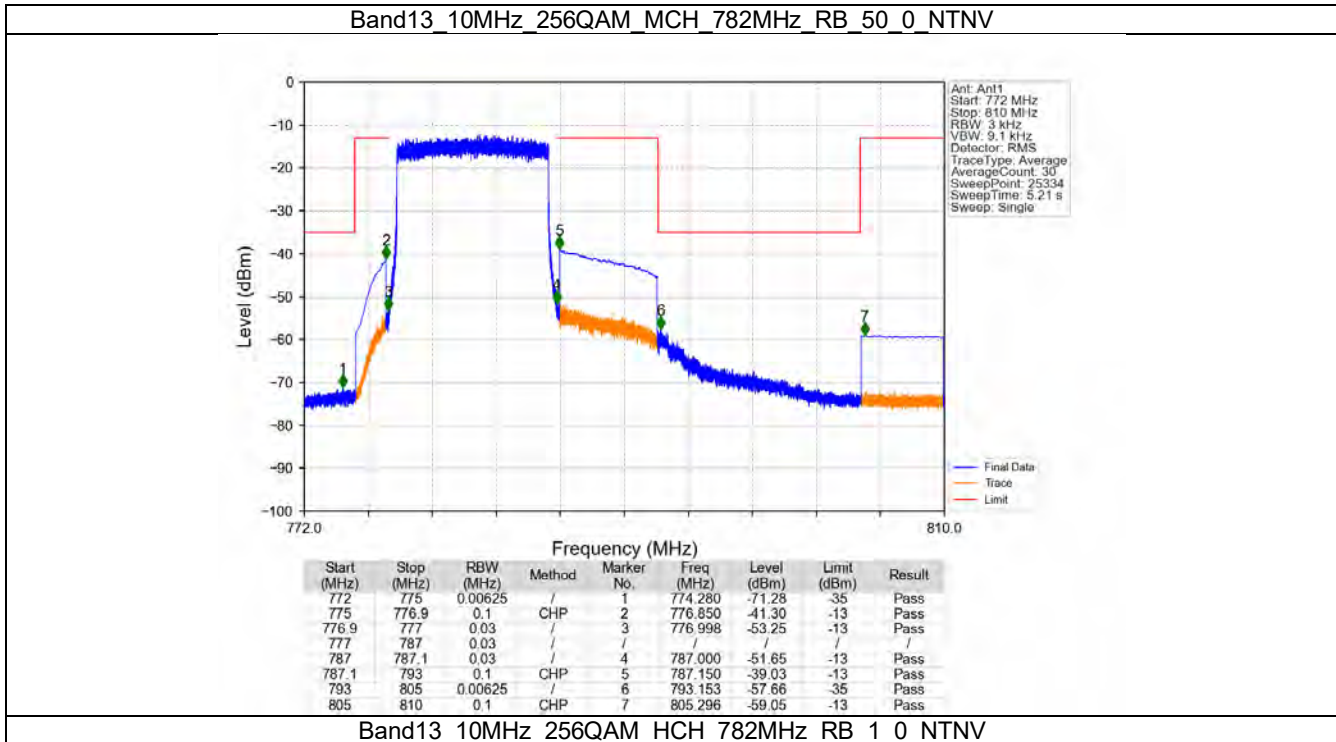


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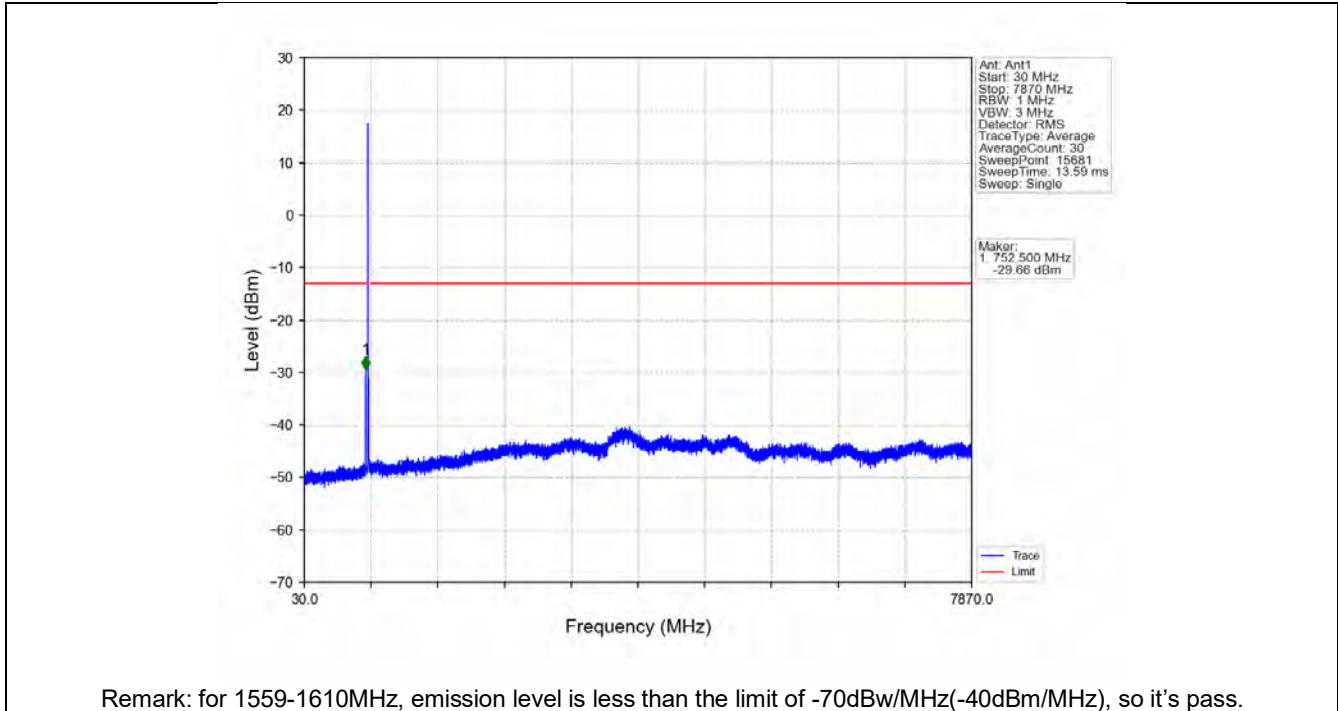


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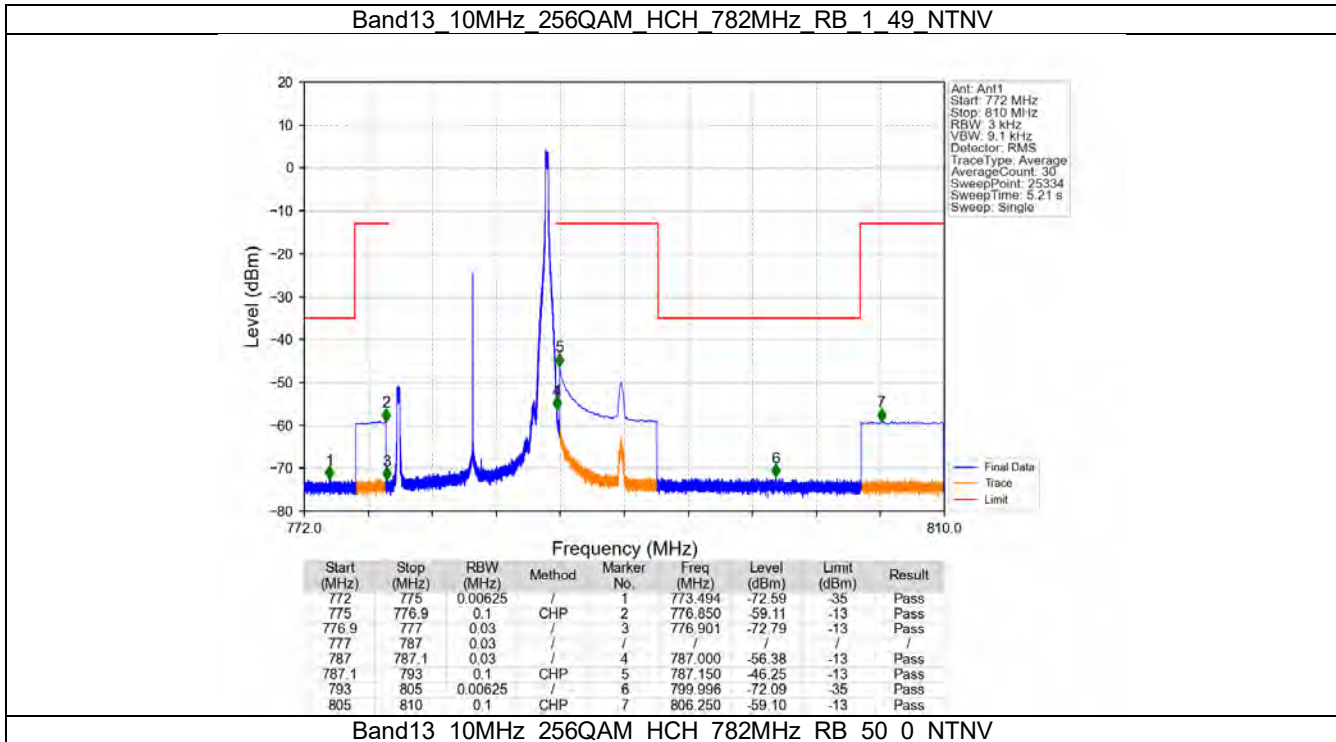


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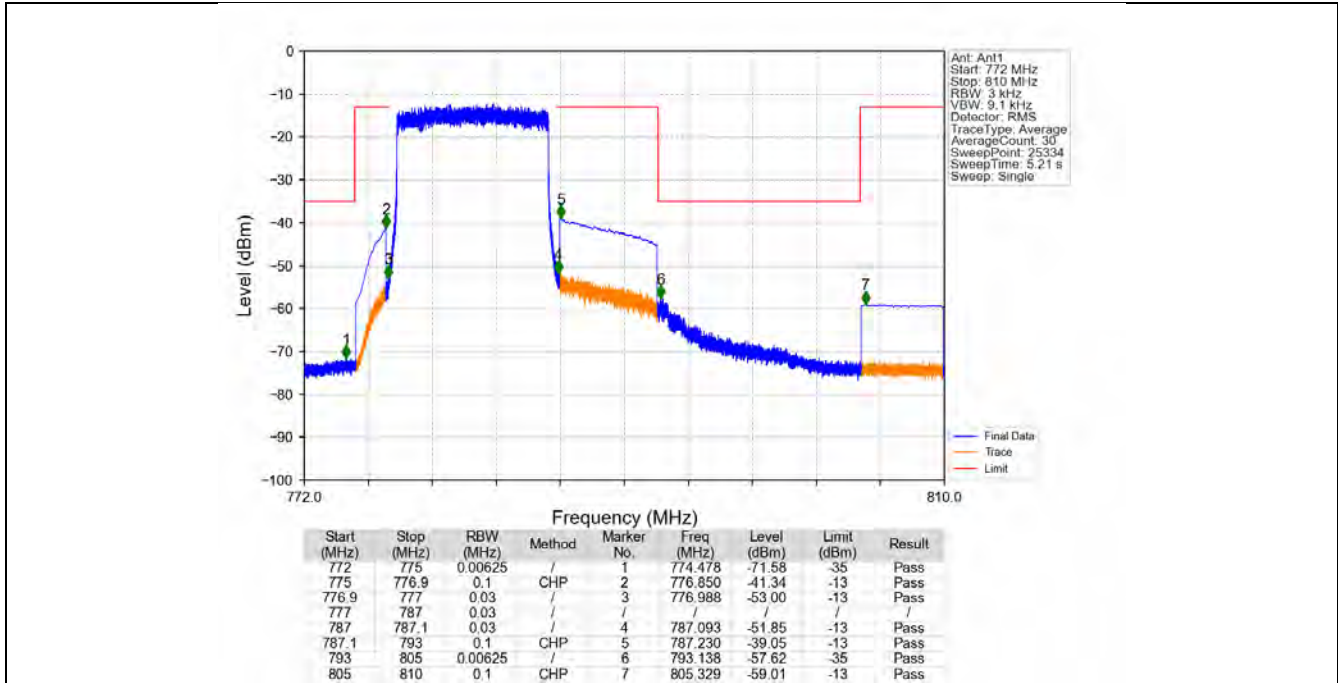


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## 6. Field Strength of Spurious Radiation

LTE Band 13-Low channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1554.5	-66.02	-13	-53.02	-69.895	2	5.88	Horizontal	Pass
2331.75	-61.95	-13	-48.95	-64.22	2.35	4.62	Horizontal	Pass
3109	-54.93	-13	-41.93	-58.89	2.96	6.92	Horizontal	Pass
1554.5	-63.51	-13	-50.51	-67.385	2	5.88	Vertical	Pass
2331.75	-60.89	-13	-47.89	-63.16	2.35	4.62	Vertical	Pass
3109	-55.19	-13	-42.19	-59.15	2.96	6.92	Vertical	Pass

LTE Band 13-Middle channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1559.5	-65.69	-40	-25.69	-69.565	2	5.88	Horizontal	Pass
2339.25	-60.94	-13	-47.94	-63.21	2.35	4.62	Horizontal	Pass
3119	-55.10	-13	-42.10	-59.06	2.96	6.92	Horizontal	Pass
1559.5	-64.06	-40	-24.06	-67.935	2	5.88	Vertical	Pass
2339.25	-60.36	-13	-47.36	-62.63	2.35	4.62	Vertical	Pass
3119	-55.81	-13	-42.81	-59.77	2.96	6.92	Vertical	Pass

LTE Band 13-High channel, Modulation: QPSK, Bandwidth:5MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1564.5	-64.92	-40	-24.92	-68.795	2	5.88	Horizontal	Pass
2346.75	-61.75	-13	-48.75	-64.02	2.35	4.62	Horizontal	Pass
3129	-55.03	-13	-42.03	-58.99	2.96	6.92	Horizontal	Pass
1564.5	-62.76	-40	-22.76	-66.635	2	5.88	Vertical	Pass
2346.75	-61.59	-13	-48.59	-63.86	2.35	4.62	Vertical	Pass
3129	-54.34	-13	-41.34	-58.3	2.96	6.92	Vertical	Pass

---End of Attachment---



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