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Appendix B.13

LTE Band 17



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1. Effective (Isotropic) Radiated Power Output Data

Ant11

1.1 B17_5MHz_ERP

1.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	706.5	1	0	22.95	-8.80	12.00	<=34.77	Pass		
			13	23.02	-8.80	12.07	<=34.77	Pass		
			24	22.88	-8.80	11.93	<=34.77	Pass		
		12	0	22.03	-8.80	11.08	<=34.77	Pass		
			6	22.05	-8.80	11.10	<=34.77	Pass		
			13	21.98	-8.80	11.03	<=34.77	Pass		
		25	0	22.03	-8.80	11.08	<=34.77	Pass		
		710	1	0	22.98	-8.80	12.03	<=34.77	Pass	
				13	23.04	-8.80	12.09	<=34.77	Pass	
	24			22.85	-8.80	11.90	<=34.77	Pass		
	12		0	21.95	-8.80	11.00	<=34.77	Pass		
			6	21.98	-8.80	11.03	<=34.77	Pass		
			13	21.91	-8.80	10.96	<=34.77	Pass		
	25	0	21.94	-8.80	10.99	<=34.77	Pass			
	713.5	1	0	22.86	-8.80	11.91	<=34.77	Pass		
			13	23.00	-8.80	12.05	<=34.77	Pass		
			24	22.83	-8.80	11.88	<=34.77	Pass		
		12	0	21.97	-8.80	11.02	<=34.77	Pass		
			6	21.97	-8.80	11.02	<=34.77	Pass		
			13	21.91	-8.80	10.96	<=34.77	Pass		
		25	0	21.94	-8.80	10.99	<=34.77	Pass		
		16QAM	706.5	1	0	22.04	-8.80	11.09	<=34.77	Pass
					13	22.02	-8.80	11.07	<=34.77	Pass
	24				21.90	-8.80	10.95	<=34.77	Pass	
12	0			20.99	-8.80	10.04	<=34.77	Pass		
	6			21.04	-8.80	10.09	<=34.77	Pass		
	13			21.03	-8.80	10.08	<=34.77	Pass		
25	0			21.01	-8.80	10.06	<=34.77	Pass		
710	1			0	22.07	-8.80	11.12	<=34.77	Pass	
				13	22.13	-8.80	11.18	<=34.77	Pass	
			24	22.02	-8.80	11.07	<=34.77	Pass		
	12		0	20.94	-8.80	9.99	<=34.77	Pass		
			6	21.03	-8.80	10.08	<=34.77	Pass		



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	713.5	25	13	20.91	-8.80	9.96	<=34.77	Pass	
			0	20.94	-8.80	9.99	<=34.77	Pass	
			0	21.97	-8.80	11.02	<=34.77	Pass	
		1	13	22.11	-8.80	11.16	<=34.77	Pass	
			24	21.99	-8.80	11.04	<=34.77	Pass	
			0	20.98	-8.80	10.03	<=34.77	Pass	
	12	6	21.10	-8.80	10.15	<=34.77	Pass		
		13	20.95	-8.80	10.00	<=34.77	Pass		
		25	0	20.98	-8.80	10.03	<=34.77	Pass	
	64QAM	706.5	1	0	21.12	-8.80	10.17	<=34.77	Pass
				13	21.16	-8.80	10.21	<=34.77	Pass
				24	21.22	-8.80	10.27	<=34.77	Pass
12			0	20.04	-8.80	9.09	<=34.77	Pass	
			6	20.07	-8.80	9.12	<=34.77	Pass	
			13	20.01	-8.80	9.06	<=34.77	Pass	
25			0	20.01	-8.80	9.06	<=34.77	Pass	
710			1	0	21.11	-8.80	10.16	<=34.77	Pass
				13	21.21	-8.80	10.26	<=34.77	Pass
		24		21.02	-8.80	10.07	<=34.77	Pass	
		12	0	19.96	-8.80	9.01	<=34.77	Pass	
			6	20.01	-8.80	9.06	<=34.77	Pass	
			13	19.95	-8.80	9.00	<=34.77	Pass	
		25	0	19.94	-8.80	8.99	<=34.77	Pass	
		713.5	1	0	21.02	-8.80	10.07	<=34.77	Pass
				13	21.09	-8.80	10.14	<=34.77	Pass
24				20.94	-8.80	9.99	<=34.77	Pass	
12			0	20.01	-8.80	9.06	<=34.77	Pass	
			6	20.00	-8.80	9.05	<=34.77	Pass	
			13	19.95	-8.80	9.00	<=34.77	Pass	
25			0	19.95	-8.80	9.00	<=34.77	Pass	



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1.2 B17_10MHz_ERP

1.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTN									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	709	1	0	22.98	-8.80	12.03	<=34.77	Pass	
			25	22.94	-8.80	11.99	<=34.77	Pass	
			49	22.81	-8.80	11.86	<=34.77	Pass	
		25	0	21.97	-8.80	11.02	<=34.77	Pass	
			13	22.03	-8.80	11.08	<=34.77	Pass	
			25	21.98	-8.80	11.03	<=34.77	Pass	
		50	0	21.96	-8.80	11.01	<=34.77	Pass	
		710	1	0	22.98	-8.80	12.03	<=34.77	Pass
				25	22.98	-8.80	12.03	<=34.77	Pass
	49			22.91	-8.80	11.96	<=34.77	Pass	
	25		0	21.96	-8.80	11.01	<=34.77	Pass	
			13	21.97	-8.80	11.02	<=34.77	Pass	
			25	21.88	-8.80	10.93	<=34.77	Pass	
	50	0	21.95	-8.80	11.00	<=34.77	Pass		
	711	1	0	22.99	-8.80	12.04	<=34.77	Pass	
			25	22.96	-8.80	12.01	<=34.77	Pass	
			49	22.79	-8.80	11.84	<=34.77	Pass	
		25	0	21.92	-8.80	10.97	<=34.77	Pass	
			13	22.07	-8.80	11.12	<=34.77	Pass	
			25	21.88	-8.80	10.93	<=34.77	Pass	
	50	0	21.94	-8.80	10.99	<=34.77	Pass		
	16QAM	709	1	0	22.20	-8.80	11.25	<=34.77	Pass
				25	22.20	-8.80	11.25	<=34.77	Pass
				49	22.10	-8.80	11.15	<=34.77	Pass
25			0	21.01	-8.80	10.06	<=34.77	Pass	
			13	21.07	-8.80	10.12	<=34.77	Pass	
			25	21.02	-8.80	10.07	<=34.77	Pass	
50			0	20.96	-8.80	10.01	<=34.77	Pass	
710			1	0	22.09	-8.80	11.14	<=34.77	Pass
				25	22.11	-8.80	11.16	<=34.77	Pass
		49		22.02	-8.80	11.07	<=34.77	Pass	
		25	0	21.01	-8.80	10.06	<=34.77	Pass	
			13	21.02	-8.80	10.07	<=34.77	Pass	
			25	20.91	-8.80	9.96	<=34.77	Pass	
50		0	20.96	-8.80	10.01	<=34.77	Pass		
711		1	0	22.13	-8.80	11.18	<=34.77	Pass	
			25	22.16	-8.80	11.21	<=34.77	Pass	
			49	21.93	-8.80	10.98	<=34.77	Pass	



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		25	0	21.00	-8.80	10.05	<=34.77	Pass	
			13	21.05	-8.80	10.10	<=34.77	Pass	
			25	20.90	-8.80	9.95	<=34.77	Pass	
		50	0	20.96	-8.80	10.01	<=34.77	Pass	
64QAM	709	1	0	21.33	-8.80	10.38	<=34.77	Pass	
			25	21.28	-8.80	10.33	<=34.77	Pass	
			49	21.09	-8.80	10.14	<=34.77	Pass	
		25	0	19.99	-8.80	9.04	<=34.77	Pass	
			13	20.05	-8.80	9.10	<=34.77	Pass	
			25	20.00	-8.80	9.05	<=34.77	Pass	
		50	0	19.93	-8.80	8.98	<=34.77	Pass	
		710	1	0	21.22	-8.80	10.27	<=34.77	Pass
				25	21.32	-8.80	10.37	<=34.77	Pass
	49			21.15	-8.80	10.20	<=34.77	Pass	
	25		0	19.96	-8.80	9.01	<=34.77	Pass	
			13	20.02	-8.80	9.07	<=34.77	Pass	
			25	19.92	-8.80	8.97	<=34.77	Pass	
	50		0	19.95	-8.80	9.00	<=34.77	Pass	
	711		1	0	21.06	-8.80	10.11	<=34.77	Pass
				25	21.13	-8.80	10.18	<=34.77	Pass
		49		20.93	-8.80	9.98	<=34.77	Pass	
		25	0	19.98	-8.80	9.03	<=34.77	Pass	
			13	20.06	-8.80	9.11	<=34.77	Pass	
			25	19.91	-8.80	8.96	<=34.77	Pass	
		50	0	19.98	-8.80	9.03	<=34.77	Pass	



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2. Frequency Stability

2.1 B17_5MHz

2.1.1 Test Result

Band: 17 / Bandwidth: 5MHz												
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict			
		Size	Offset				Result	Limit				
QPSK	706.5	25	0	20	3.7	0.844	0.0012	-2.5 to 2.5	Pass			
					3.91	0.373	0.0005	-2.5 to 2.5	Pass			
					4.4	0.519	0.0007	-2.5 to 2.5	Pass			
				-30	3.91	0.261	0.0004	-2.5 to 2.5	Pass			
					-20	3.91	-0.002	0.0000	-2.5 to 2.5	Pass		
						-10	3.91	0.126	0.0002	-2.5 to 2.5	Pass	
				0	3.91	-0.014	0.0000	-2.5 to 2.5	Pass			
					10	3.91	0.032	0.0000	-2.5 to 2.5	Pass		
				30	3.91	0.155	0.0002	-2.5 to 2.5	Pass			
					40	3.91	-0.343	-0.0005	-2.5 to 2.5	Pass		
				50	3.91	-0.232	-0.0003	-2.5 to 2.5	Pass			
				710	25	0	20	3.7	1.789	0.0025	-2.5 to 2.5	Pass
								3.91	1.359	0.0019	-2.5 to 2.5	Pass
								4.4	0.353	0.0005	-2.5 to 2.5	Pass
							-30	3.91	1.194	0.0017	-2.5 to 2.5	Pass
	-20	3.91	0.760					0.0011	-2.5 to 2.5	Pass		
		-10	3.91					0.498	0.0007	-2.5 to 2.5	Pass	
	0	3.91	0.477				0.0007	-2.5 to 2.5	Pass			
		10	3.91				0.301	0.0004	-2.5 to 2.5	Pass		
	30	3.91	0.112				0.0002	-2.5 to 2.5	Pass			
		40	3.91				0.600	0.0008	-2.5 to 2.5	Pass		
	50	3.91	0.506				0.0007	-2.5 to 2.5	Pass			
	713.5	25	0				20	3.7	2.727	0.0038	-2.5 to 2.5	Pass
				3.91	2.878	0.0040		-2.5 to 2.5	Pass			
				4.4	1.856	0.0026		-2.5 to 2.5	Pass			
				-30	3.91	1.947	0.0027	-2.5 to 2.5	Pass			
					-20	3.91	0.935	0.0013	-2.5 to 2.5	Pass		
-10						3.91	0.901	0.0013	-2.5 to 2.5	Pass		
0				3.91	-0.073	-0.0001	-2.5 to 2.5	Pass				
				10	3.91	0.812	0.0011	-2.5 to 2.5	Pass			
30				3.91	-0.334	-0.0005	-2.5 to 2.5	Pass				
				40	3.91	-0.131	-0.0002	-2.5 to 2.5	Pass			
50				3.91	-0.311	-0.0004	-2.5 to 2.5	Pass				
16QAM				706.5	25	0	20	3.7	0.705	0.0010	-2.5 to 2.5	Pass
	3.91	-0.393	-0.0006					-2.5 to 2.5	Pass			



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64QAM	710	25	0	4.4	0.099	0.0001	-2.5 to 2.5	Pass		
				-30	3.91	-0.629	-0.0009	-2.5 to 2.5	Pass	
				-20	3.91	-0.184	-0.0003	-2.5 to 2.5	Pass	
				-10	3.91	0.047	0.0001	-2.5 to 2.5	Pass	
				0	3.91	-0.435	-0.0006	-2.5 to 2.5	Pass	
				10	3.91	-0.579	-0.0008	-2.5 to 2.5	Pass	
				30	3.91	-0.811	-0.0011	-2.5 to 2.5	Pass	
				40	3.91	-0.869	-0.0012	-2.5 to 2.5	Pass	
	50	3.91	-0.241	-0.0003	-2.5 to 2.5	Pass				
	710	25	0	20	3.7	1.416	0.0020	-2.5 to 2.5	Pass	
					3.91	-0.836	-0.0012	-2.5 to 2.5	Pass	
					4.4	0.530	0.0007	-2.5 to 2.5	Pass	
				-30	3.91	0.252	0.0004	-2.5 to 2.5	Pass	
					-20	3.91	0.995	0.0014	-2.5 to 2.5	Pass
					-10	3.91	-0.552	-0.0008	-2.5 to 2.5	Pass
					0	3.91	0.582	0.0008	-2.5 to 2.5	Pass
					10	3.91	-0.228	-0.0003	-2.5 to 2.5	Pass
	30	3.91	0.764	0.0011	-2.5 to 2.5	Pass				
		40	3.91	0.029	0.0000	-2.5 to 2.5	Pass			
		50	3.91	-0.391	-0.0006	-2.5 to 2.5	Pass			
		713.5	25	0	20	3.7	0.387	0.0005	-2.5 to 2.5	Pass
	3.91					0.248	0.0003	-2.5 to 2.5	Pass	
	4.4					0.725	0.0010	-2.5 to 2.5	Pass	
	-30				3.91	0.565	0.0008	-2.5 to 2.5	Pass	
					-20	3.91	0.218	0.0003	-2.5 to 2.5	Pass
					-10	3.91	-1.270	-0.0018	-2.5 to 2.5	Pass
					0	3.91	0.373	0.0005	-2.5 to 2.5	Pass
					10	3.91	0.647	0.0009	-2.5 to 2.5	Pass
30	3.91	-1.000	-0.0014	-2.5 to 2.5	Pass					
	40	3.91	-1.135	-0.0016	-2.5 to 2.5	Pass				
	50	3.91	-0.926	-0.0013	-2.5 to 2.5	Pass				
	706.5	25	0	20	3.7	-0.749	-0.0011	-2.5 to 2.5	Pass	
3.91					-0.443	-0.0006	-2.5 to 2.5	Pass		
4.4					0.346	0.0005	-2.5 to 2.5	Pass		
-30				3.91	-0.186	-0.0003	-2.5 to 2.5	Pass		
				-20	3.91	-0.528	-0.0007	-2.5 to 2.5	Pass	
				-10	3.91	-0.817	-0.0012	-2.5 to 2.5	Pass	
				0	3.91	-0.080	-0.0001	-2.5 to 2.5	Pass	
				10	3.91	-0.505	-0.0007	-2.5 to 2.5	Pass	
30	3.91	-1.756	-0.0025	-2.5 to 2.5	Pass					
	40	3.91	-1.080	-0.0015	-2.5 to 2.5	Pass				
	50	3.91	-1.050	-0.0015	-2.5 to 2.5	Pass				
	710	25	0	20	3.7	0.111	0.0002	-2.5 to 2.5	Pass	
3.91					-0.215	-0.0003	-2.5 to 2.5	Pass		
4.4					-0.322	-0.0005	-2.5 to 2.5	Pass		
-30				3.91	0.048	0.0001	-2.5 to 2.5	Pass		
				-20	3.91	0.295	0.0004	-2.5 to 2.5	Pass	
				-10	3.91	0.616	0.0009	-2.5 to 2.5	Pass	



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	713.5	25	0	0	3.91	0.156	0.0002	-2.5 to 2.5	Pass
				10	3.91	0.698	0.0010	-2.5 to 2.5	Pass
				30	3.91	1.138	0.0016	-2.5 to 2.5	Pass
				40	3.91	0.592	0.0008	-2.5 to 2.5	Pass
				50	3.91	-0.489	-0.0007	-2.5 to 2.5	Pass
				20	3.7	-0.224	-0.0003	-2.5 to 2.5	Pass
					3.91	0.104	0.0001	-2.5 to 2.5	Pass
					4.4	0.215	0.0003	-2.5 to 2.5	Pass
				-30	3.91	-0.608	-0.0009	-2.5 to 2.5	Pass
				-20	3.91	0.232	0.0003	-2.5 to 2.5	Pass
				-10	3.91	0.512	0.0007	-2.5 to 2.5	Pass
				0	3.91	0.183	0.0003	-2.5 to 2.5	Pass
				10	3.91	0.173	0.0002	-2.5 to 2.5	Pass
				30	3.91	0.324	0.0005	-2.5 to 2.5	Pass
				40	3.91	0.187	0.0003	-2.5 to 2.5	Pass
				50	3.91	-0.317	-0.0004	-2.5 to 2.5	Pass

2.2 B17_10MHz

2.2.1 Test Result

Band: 17 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	709	50	0	20	3.7	0.044	0.0001	-2.5 to 2.5	Pass
					3.91	0.370	0.0005	-2.5 to 2.5	Pass
					4.4	1.607	0.0023	-2.5 to 2.5	Pass
				-30	3.91	0.708	0.0010	-2.5 to 2.5	Pass
				-20	3.91	0.580	0.0008	-2.5 to 2.5	Pass
				-10	3.91	1.120	0.0016	-2.5 to 2.5	Pass
				0	3.91	0.648	0.0009	-2.5 to 2.5	Pass
				10	3.91	0.584	0.0008	-2.5 to 2.5	Pass
				30	3.91	0.142	0.0002	-2.5 to 2.5	Pass
	710	50	0	20	3.7	-0.112	-0.0002	-2.5 to 2.5	Pass
					3.91	-0.501	-0.0007	-2.5 to 2.5	Pass
					4.4	-0.630	-0.0009	-2.5 to 2.5	Pass
				-30	3.91	0.973	0.0014	-2.5 to 2.5	Pass
				-20	3.91	0.383	0.0005	-2.5 to 2.5	Pass
				-10	3.91	-0.085	-0.0001	-2.5 to 2.5	Pass
				0	3.91	0.379	0.0005	-2.5 to 2.5	Pass
				10	3.91	0.474	0.0007	-2.5 to 2.5	Pass
				30	3.91	-0.222	-0.0003	-2.5 to 2.5	Pass
40	3.91	0.165	0.0002	-2.5 to 2.5	Pass				
50	3.91	0.060	0.0001	-2.5 to 2.5	Pass				



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	711	50	0	20	3.7	0.204	0.0003	-2.5 to 2.5	Pass
					3.91	0.083	0.0001	-2.5 to 2.5	Pass
					4.4	-0.538	-0.0008	-2.5 to 2.5	Pass
				-30	3.91	-0.075	-0.0001	-2.5 to 2.5	Pass
					-20	3.91	-1.311	-0.0018	-2.5 to 2.5
				-10	3.91	-1.121	-0.0016	-2.5 to 2.5	Pass
				0	3.91	-1.451	-0.0020	-2.5 to 2.5	Pass
				10	3.91	-1.451	-0.0020	-2.5 to 2.5	Pass
				30	3.91	-1.409	-0.0020	-2.5 to 2.5	Pass
				40	3.91	0.083	0.0001	-2.5 to 2.5	Pass
50	3.91	-0.394	-0.0006	-2.5 to 2.5	Pass				
	709	50	0	20	3.7	-0.088	-0.0001	-2.5 to 2.5	Pass
					3.91	1.202	0.0017	-2.5 to 2.5	Pass
					4.4	0.860	0.0012	-2.5 to 2.5	Pass
				-30	3.91	0.186	0.0003	-2.5 to 2.5	Pass
					-20	3.91	-0.940	-0.0013	-2.5 to 2.5
				-10	3.91	0.502	0.0007	-2.5 to 2.5	Pass
				0	3.91	0.594	0.0008	-2.5 to 2.5	Pass
				10	3.91	0.269	0.0004	-2.5 to 2.5	Pass
				30	3.91	-0.266	-0.0004	-2.5 to 2.5	Pass
				40	3.91	0.947	0.0013	-2.5 to 2.5	Pass
50	3.91	0.768	0.0011	-2.5 to 2.5	Pass				
16QAM	710	50	0	20	3.7	0.360	0.0005	-2.5 to 2.5	Pass
					3.91	-0.122	-0.0002	-2.5 to 2.5	Pass
					4.4	-0.070	-0.0001	-2.5 to 2.5	Pass
				-30	3.91	-0.588	-0.0008	-2.5 to 2.5	Pass
					-20	3.91	-0.795	-0.0011	-2.5 to 2.5
				-10	3.91	-0.090	-0.0001	-2.5 to 2.5	Pass
				0	3.91	0.185	0.0003	-2.5 to 2.5	Pass
				10	3.91	-0.486	-0.0007	-2.5 to 2.5	Pass
				30	3.91	-0.618	-0.0009	-2.5 to 2.5	Pass
				40	3.91	-0.690	-0.0010	-2.5 to 2.5	Pass
50	3.91	-0.210	-0.0003	-2.5 to 2.5	Pass				
	711	50	0	20	3.7	-0.033	0.0000	-2.5 to 2.5	Pass
					3.91	-0.031	0.0000	-2.5 to 2.5	Pass
					4.4	-0.558	-0.0008	-2.5 to 2.5	Pass
				-30	3.91	0.142	0.0002	-2.5 to 2.5	Pass
					-20	3.91	-0.397	-0.0006	-2.5 to 2.5
				-10	3.91	0.301	0.0004	-2.5 to 2.5	Pass
				0	3.91	-0.923	-0.0013	-2.5 to 2.5	Pass
				10	3.91	-1.116	-0.0016	-2.5 to 2.5	Pass
				30	3.91	-0.545	-0.0008	-2.5 to 2.5	Pass
				40	3.91	-0.411	-0.0006	-2.5 to 2.5	Pass
50	3.91	0.371	0.0005	-2.5 to 2.5	Pass				
64QAM	709	50	0	20	3.7	-0.368	-0.0005	-2.5 to 2.5	Pass
					3.91	1.196	0.0017	-2.5 to 2.5	Pass
					4.4	-0.040	-0.0001	-2.5 to 2.5	Pass
				-30	3.91	1.220	0.0017	-2.5 to 2.5	Pass



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				-20	3.91	0.334	0.0005	-2.5 to 2.5	Pass
				-10	3.91	0.969	0.0014	-2.5 to 2.5	Pass
				0	3.91	0.574	0.0008	-2.5 to 2.5	Pass
				10	3.91	0.751	0.0011	-2.5 to 2.5	Pass
				30	3.91	0.325	0.0005	-2.5 to 2.5	Pass
				40	3.91	0.380	0.0005	-2.5 to 2.5	Pass
				50	3.91	-0.420	-0.0006	-2.5 to 2.5	Pass
710	50	0	20	3.7	-0.264	-0.0004	-2.5 to 2.5	Pass	
				3.91	-0.158	-0.0002	-2.5 to 2.5	Pass	
				4.4	-0.887	-0.0012	-2.5 to 2.5	Pass	
			-30	3.91	-0.863	-0.0012	-2.5 to 2.5	Pass	
			-20	3.91	-0.224	-0.0003	-2.5 to 2.5	Pass	
			-10	3.91	0.127	0.0002	-2.5 to 2.5	Pass	
			0	3.91	0.061	0.0001	-2.5 to 2.5	Pass	
			10	3.91	-0.559	-0.0008	-2.5 to 2.5	Pass	
			30	3.91	0.448	0.0006	-2.5 to 2.5	Pass	
			40	3.91	0.130	0.0002	-2.5 to 2.5	Pass	
50	3.91	-0.464	-0.0007	-2.5 to 2.5	Pass				
711	50	0	20	3.7	-0.418	-0.0006	-2.5 to 2.5	Pass	
				3.91	-0.794	-0.0011	-2.5 to 2.5	Pass	
				4.4	-0.043	-0.0001	-2.5 to 2.5	Pass	
			-30	3.91	0.218	0.0003	-2.5 to 2.5	Pass	
			-20	3.91	0.677	0.0010	-2.5 to 2.5	Pass	
			-10	3.91	0.670	0.0009	-2.5 to 2.5	Pass	
			0	3.91	0.561	0.0008	-2.5 to 2.5	Pass	
			10	3.91	0.153	0.0002	-2.5 to 2.5	Pass	
			30	3.91	0.084	0.0001	-2.5 to 2.5	Pass	
			40	3.91	-1.816	-0.0026	-2.5 to 2.5	Pass	
50	3.91	0.158	0.0002	-2.5 to 2.5	Pass				



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3. 99% & 26dB Bandwidth

3.1 Band17_OBW

3.1.1 Test Result

Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	4.581	/	Pass
		710	25	0	4.585	/	Pass
		713.5	25	0	4.569	/	Pass
	16QAM	706.5	25	0	4.593	/	Pass
		710	25	0	4.581	/	Pass
		713.5	25	0	4.560	/	Pass
	64QAM	706.5	25	0	4.583	/	Pass
		710	25	0	4.588	/	Pass
		713.5	25	0	4.556	/	Pass
10	QPSK	709	50	0	9.094	/	Pass
		710	50	0	9.088	/	Pass
		711	50	0	9.077	/	Pass
	16QAM	709	50	0	9.088	/	Pass
		710	50	0	9.091	/	Pass
		711	50	0	9.069	/	Pass
	64QAM	709	50	0	9.078	/	Pass
		710	50	0	9.074	/	Pass
		711	50	0	9.055	/	Pass



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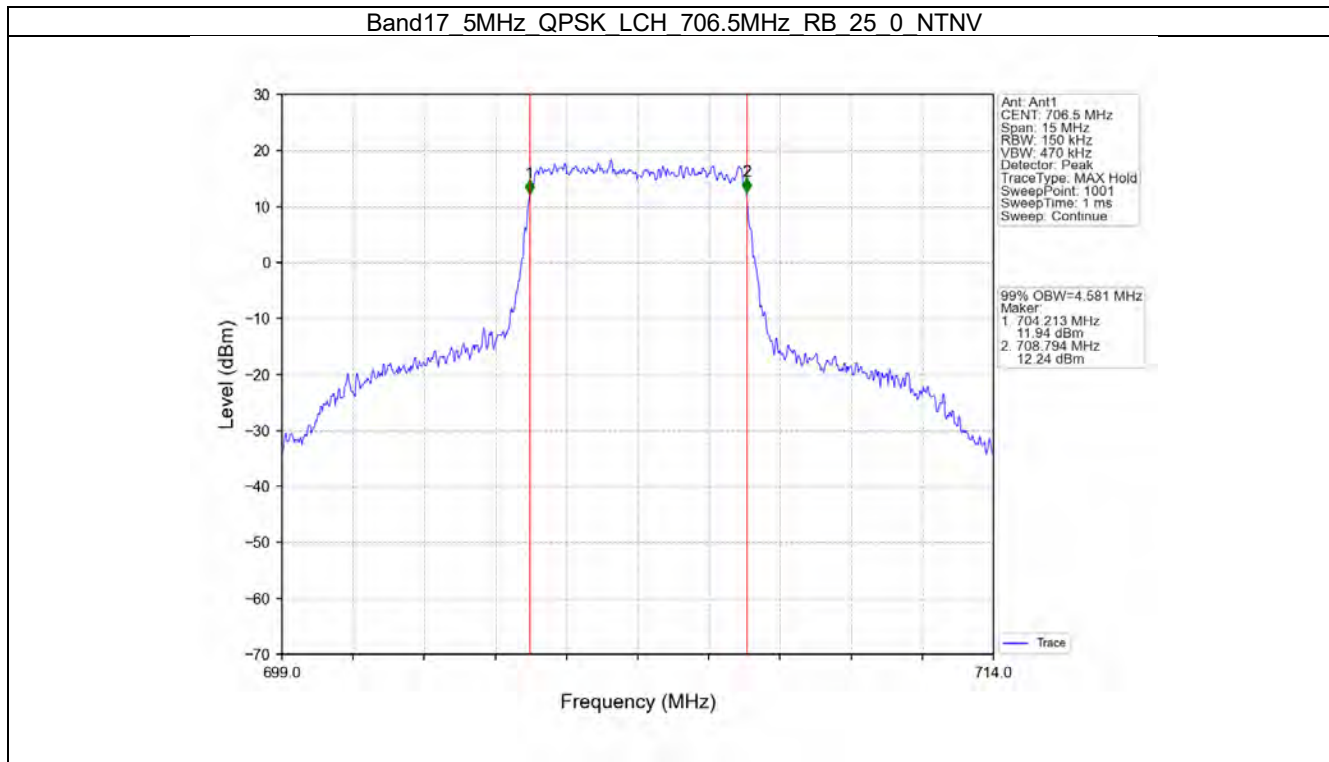
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3.1.2 Test Graph



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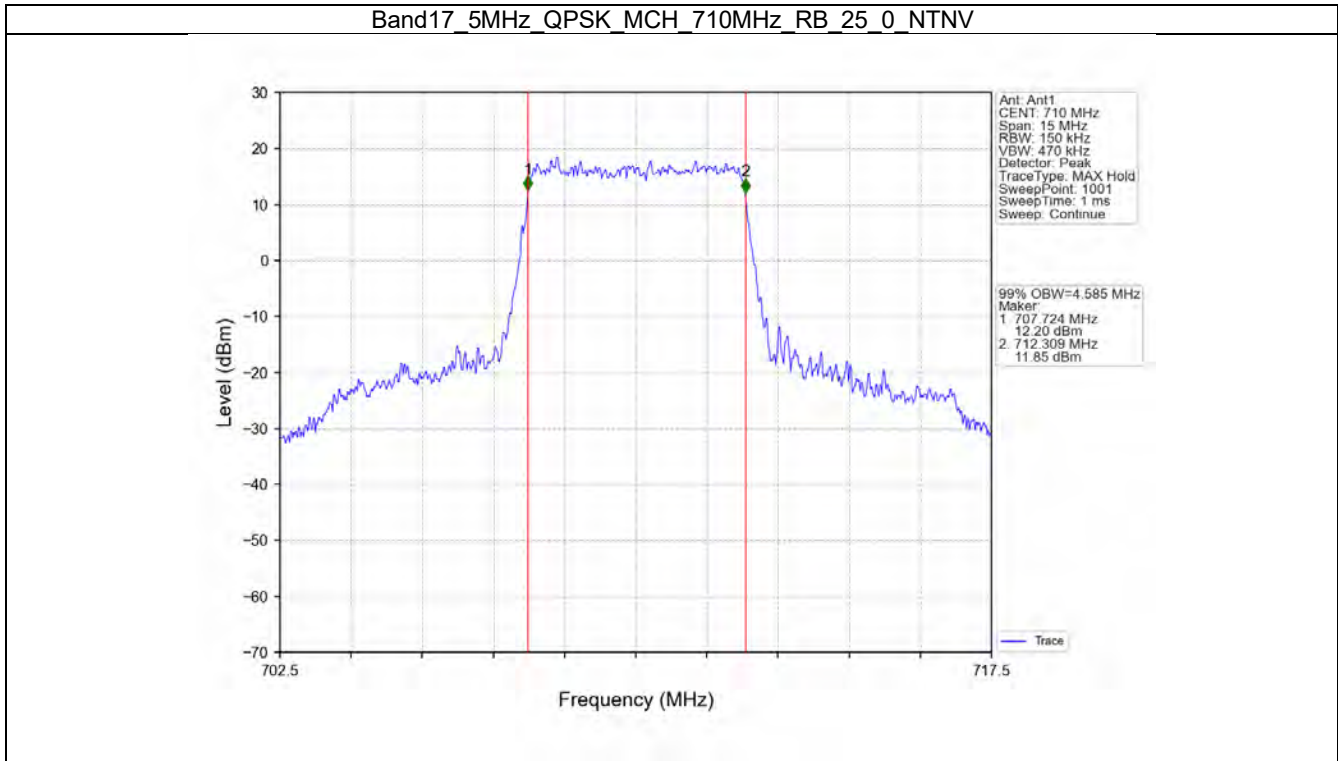


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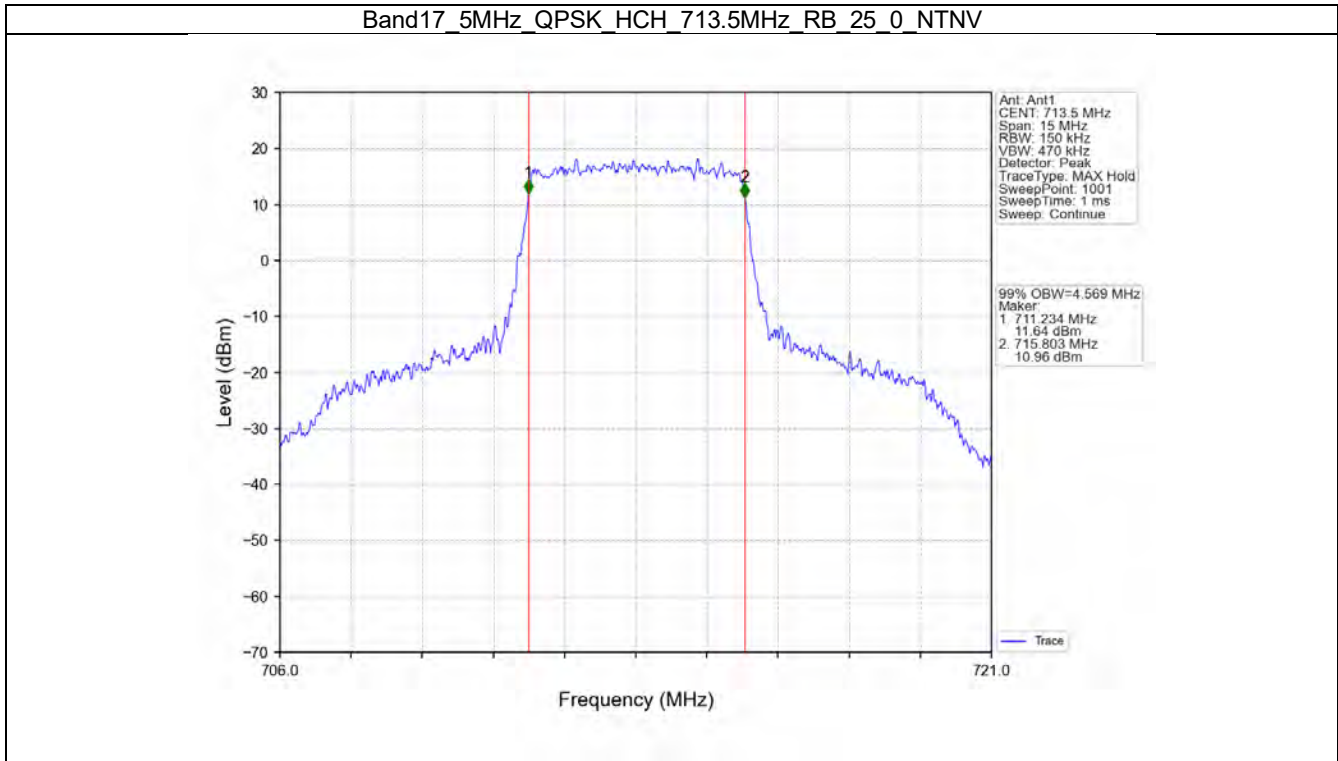


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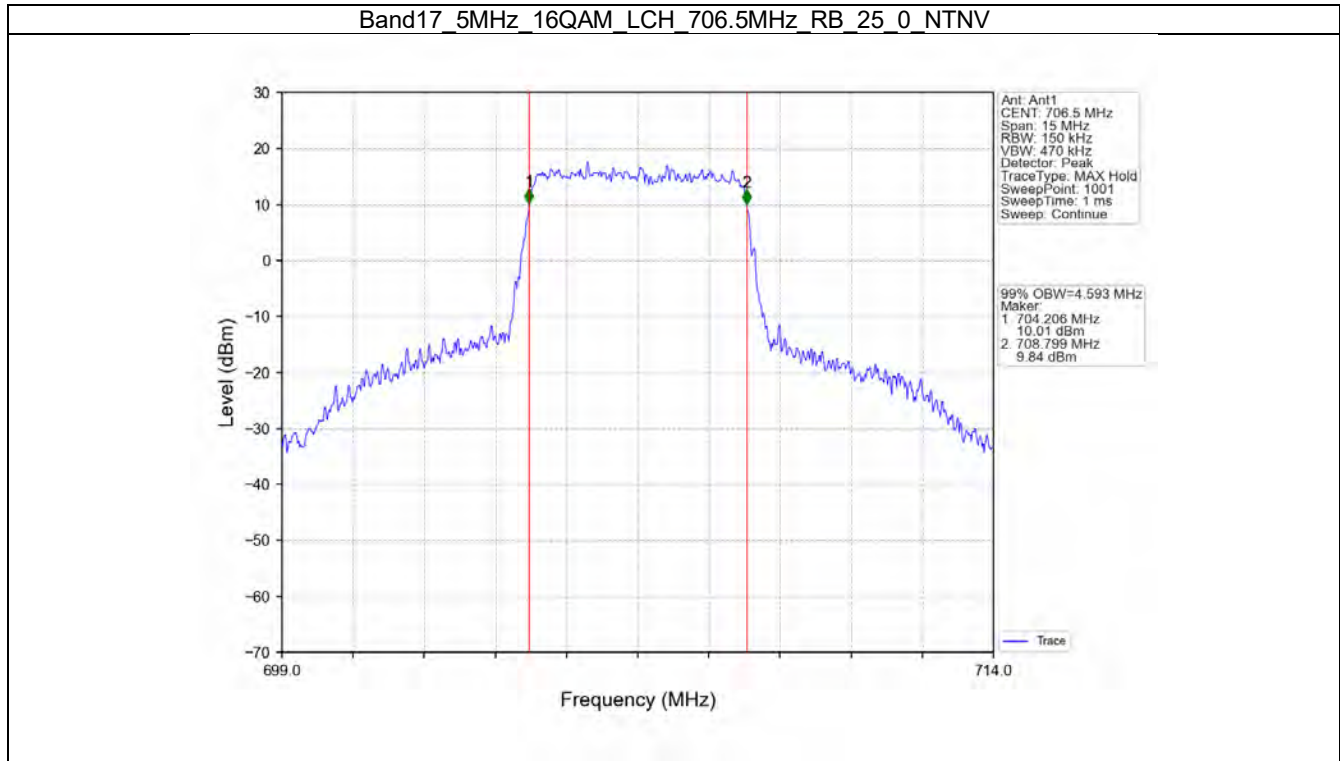


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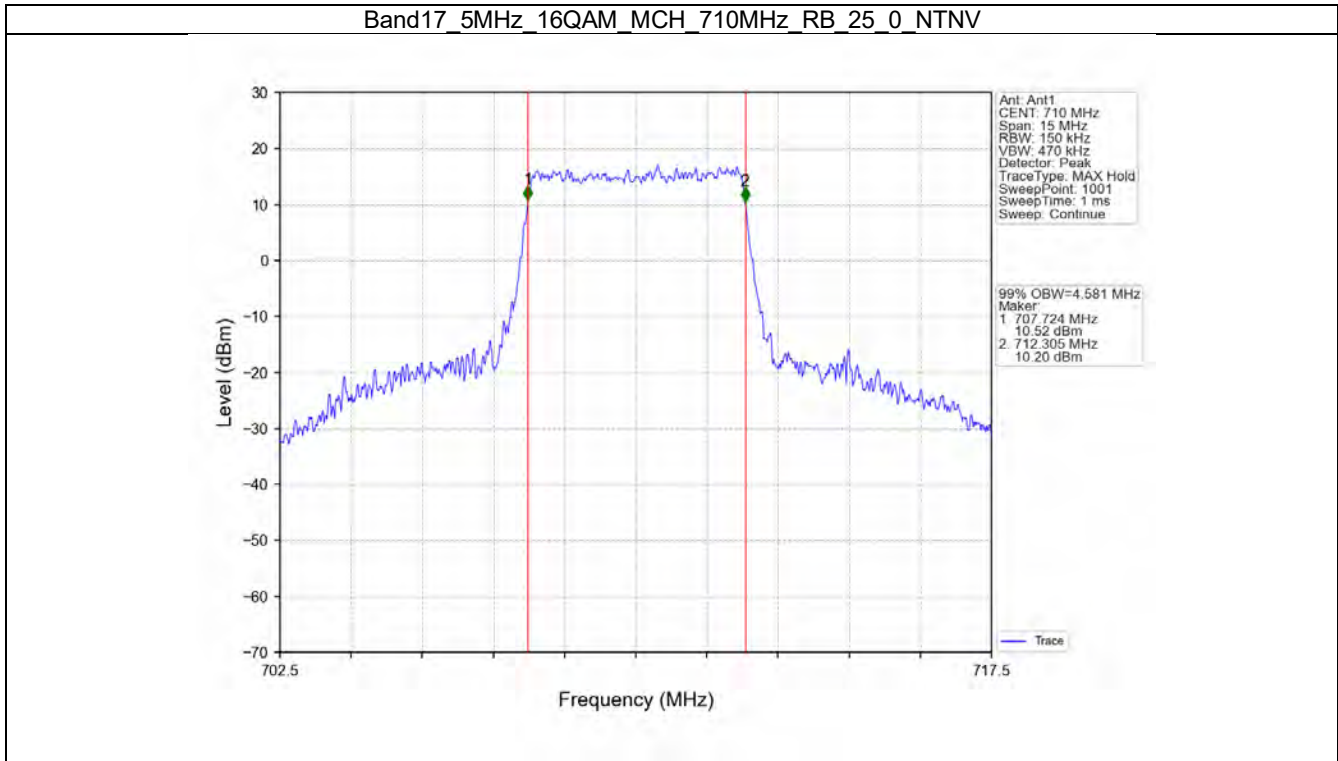


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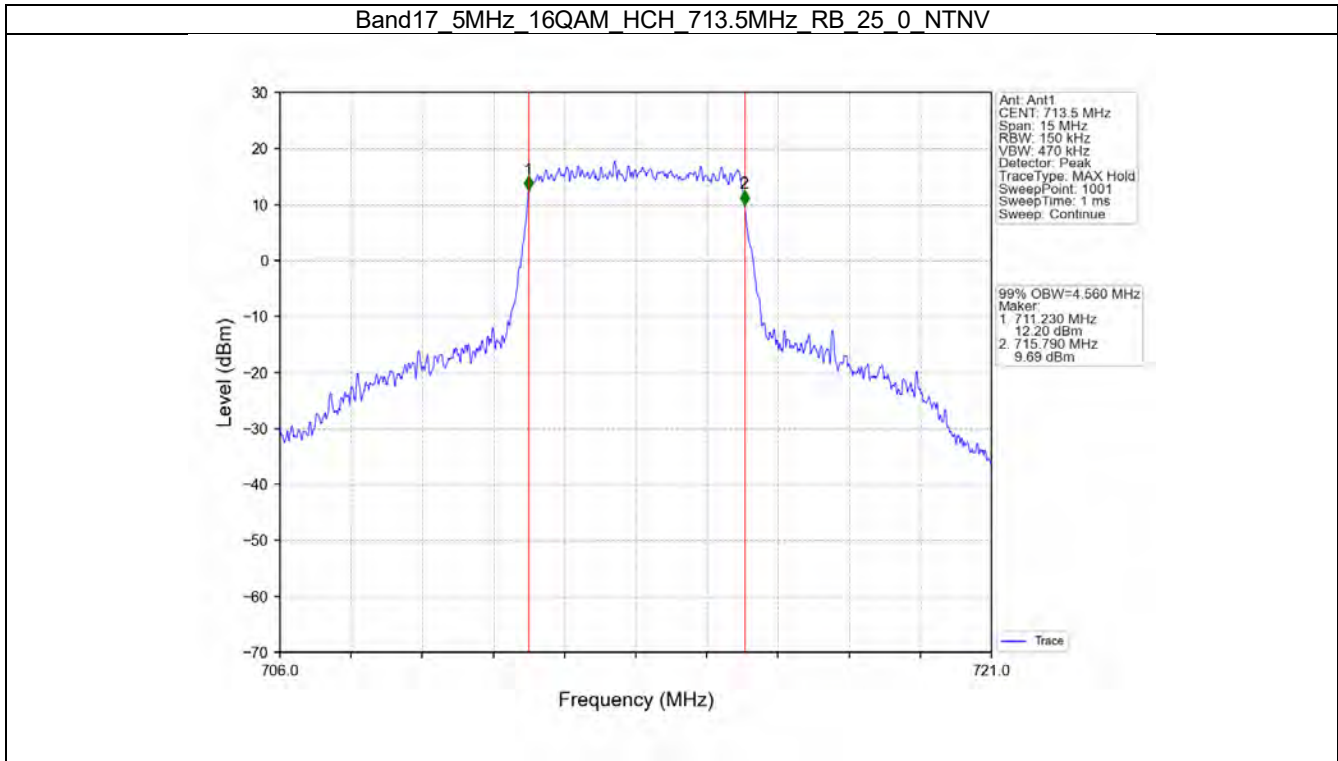


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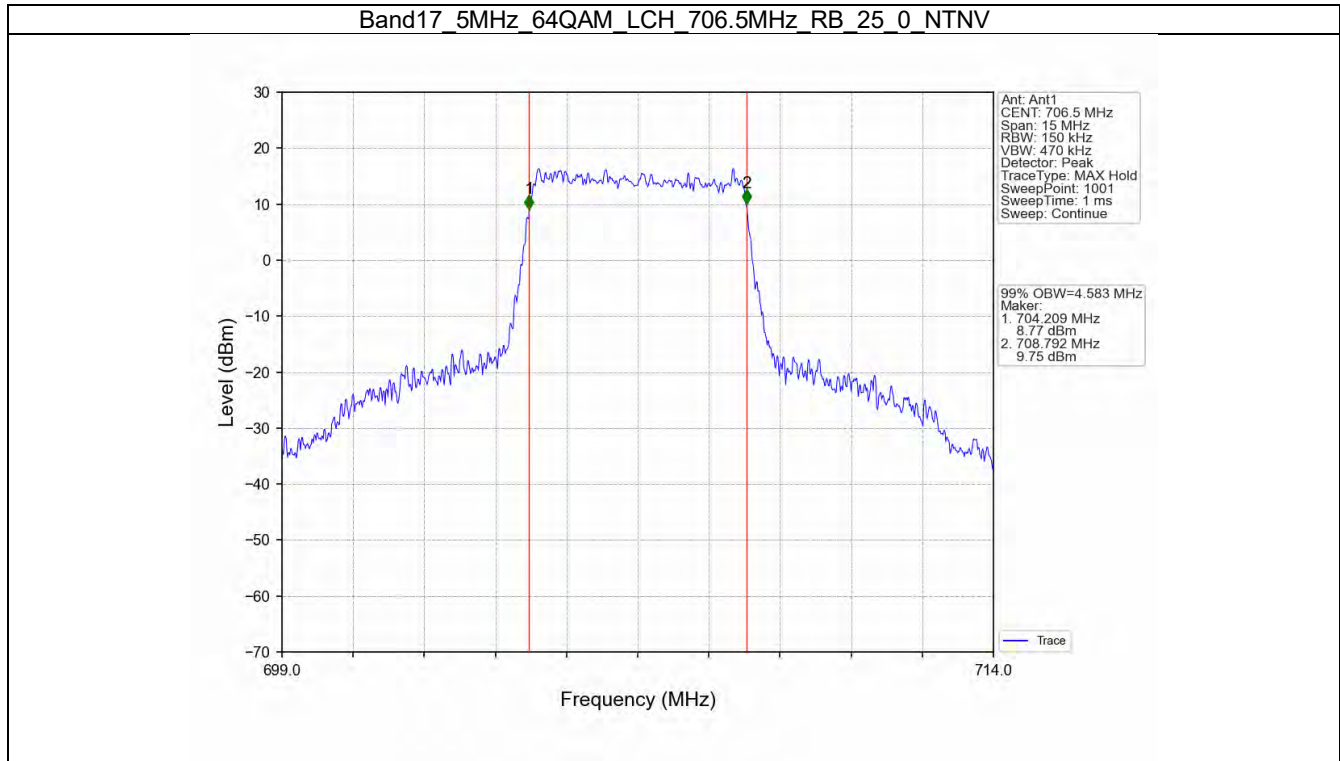


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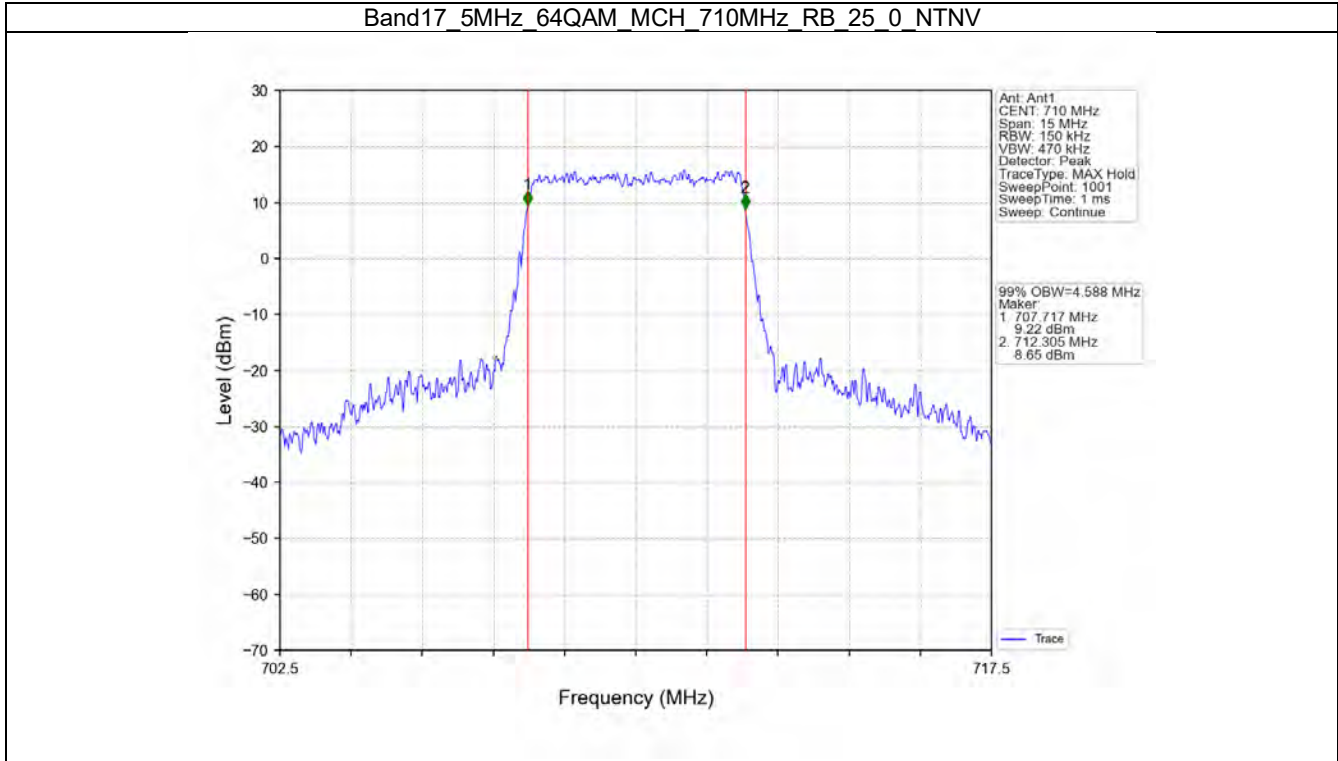


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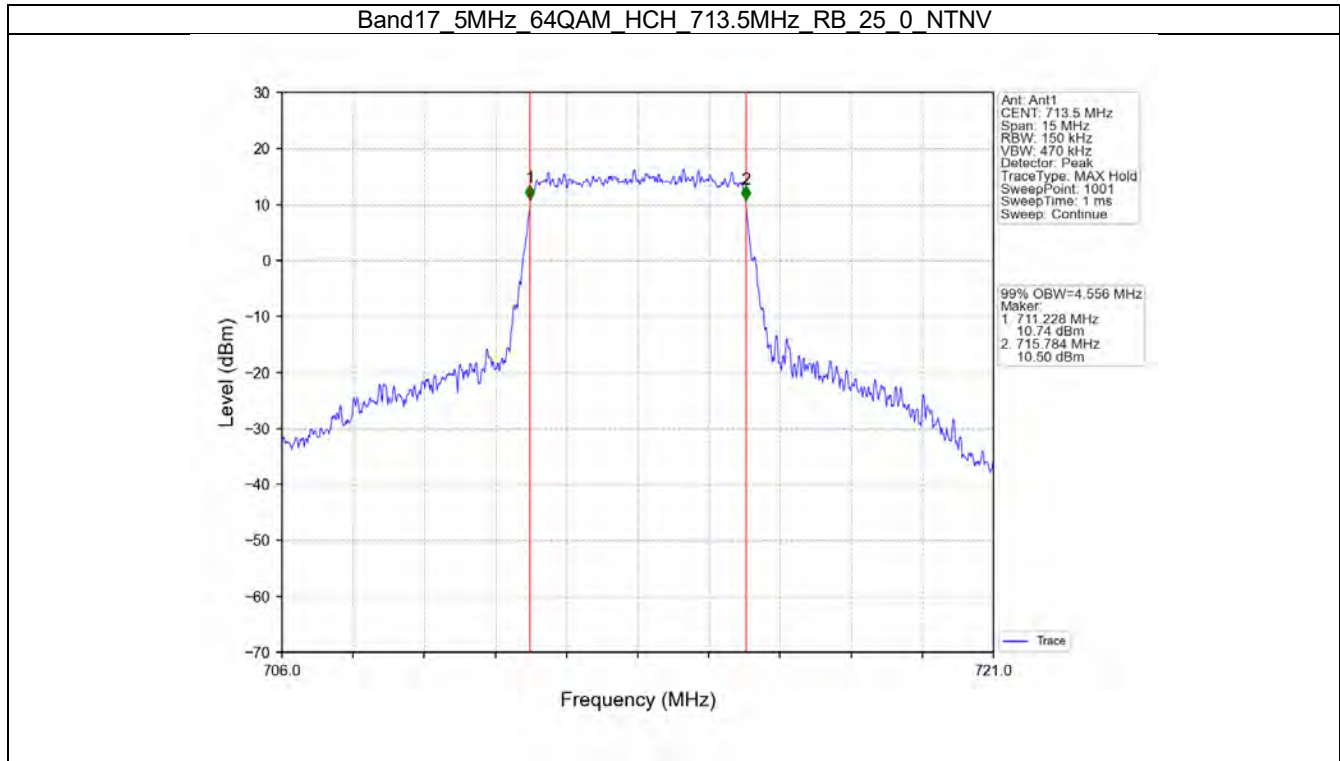


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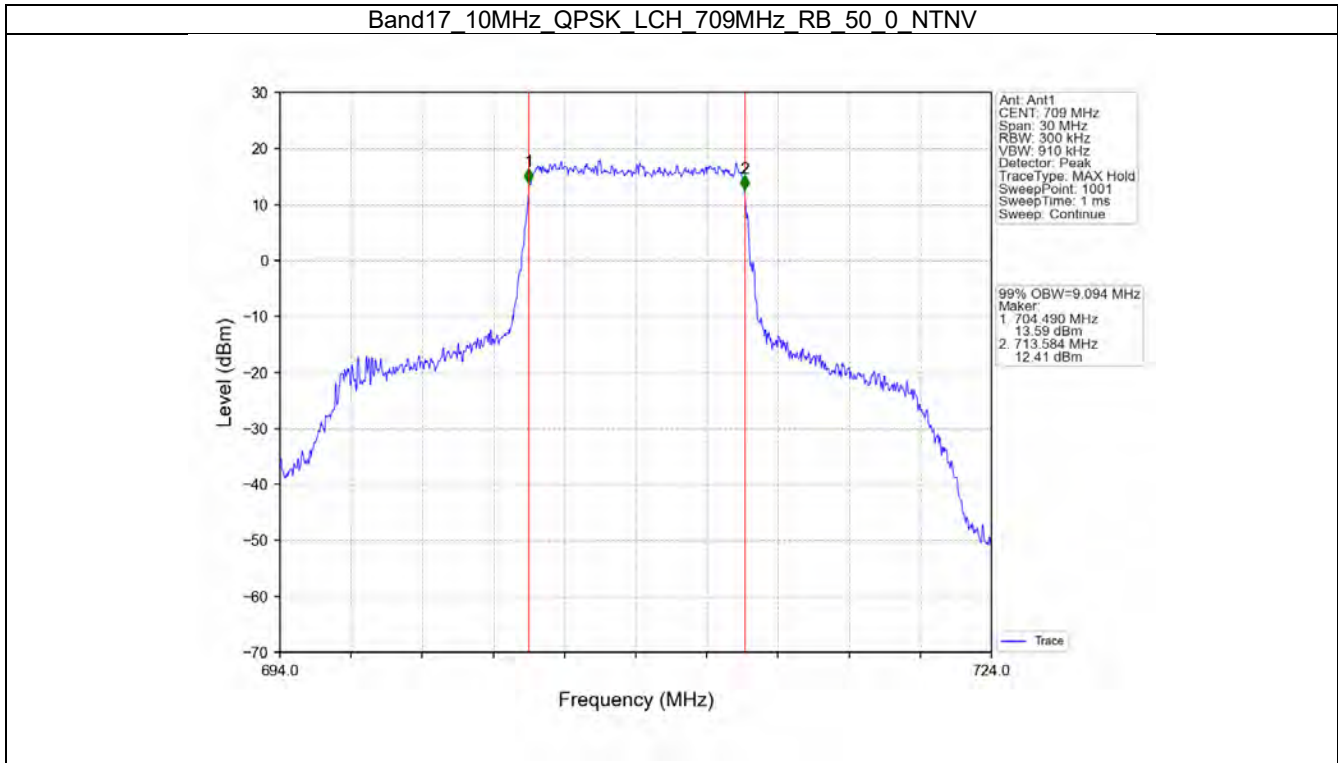


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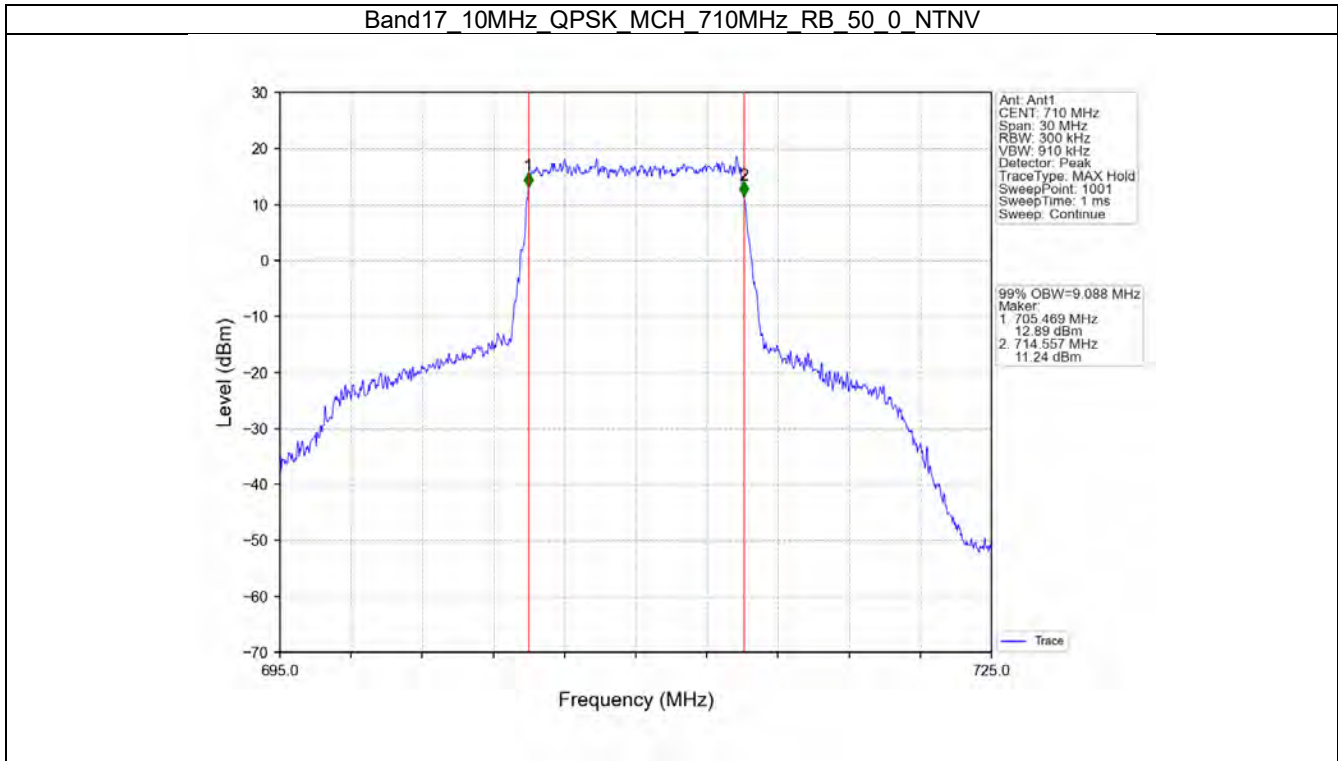


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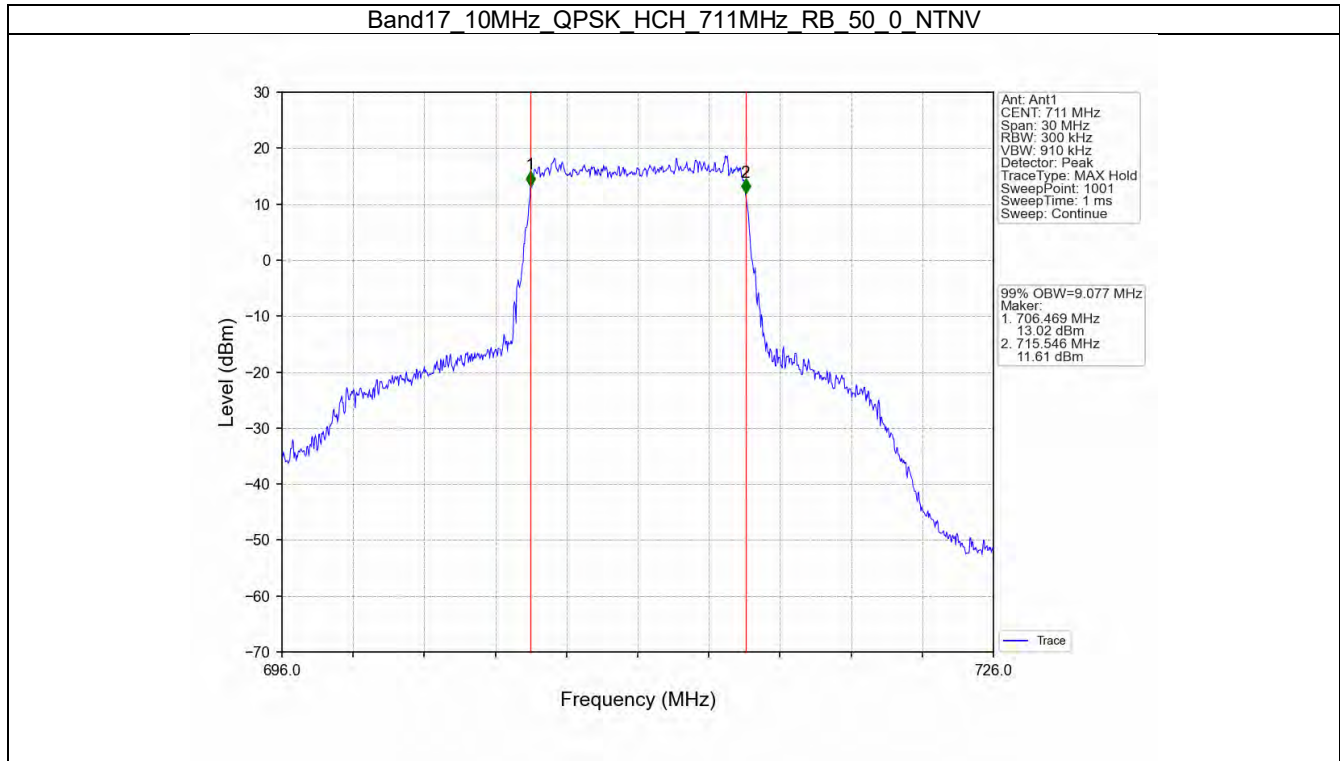


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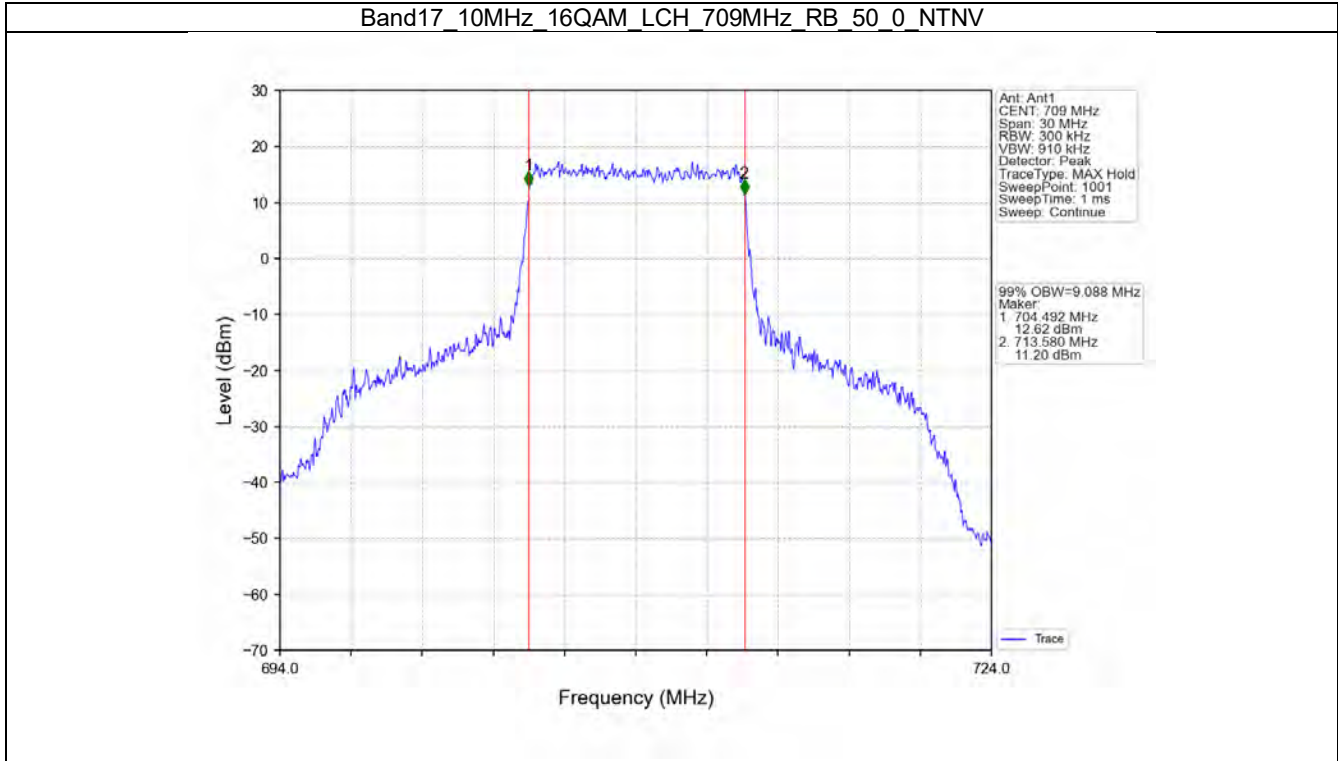


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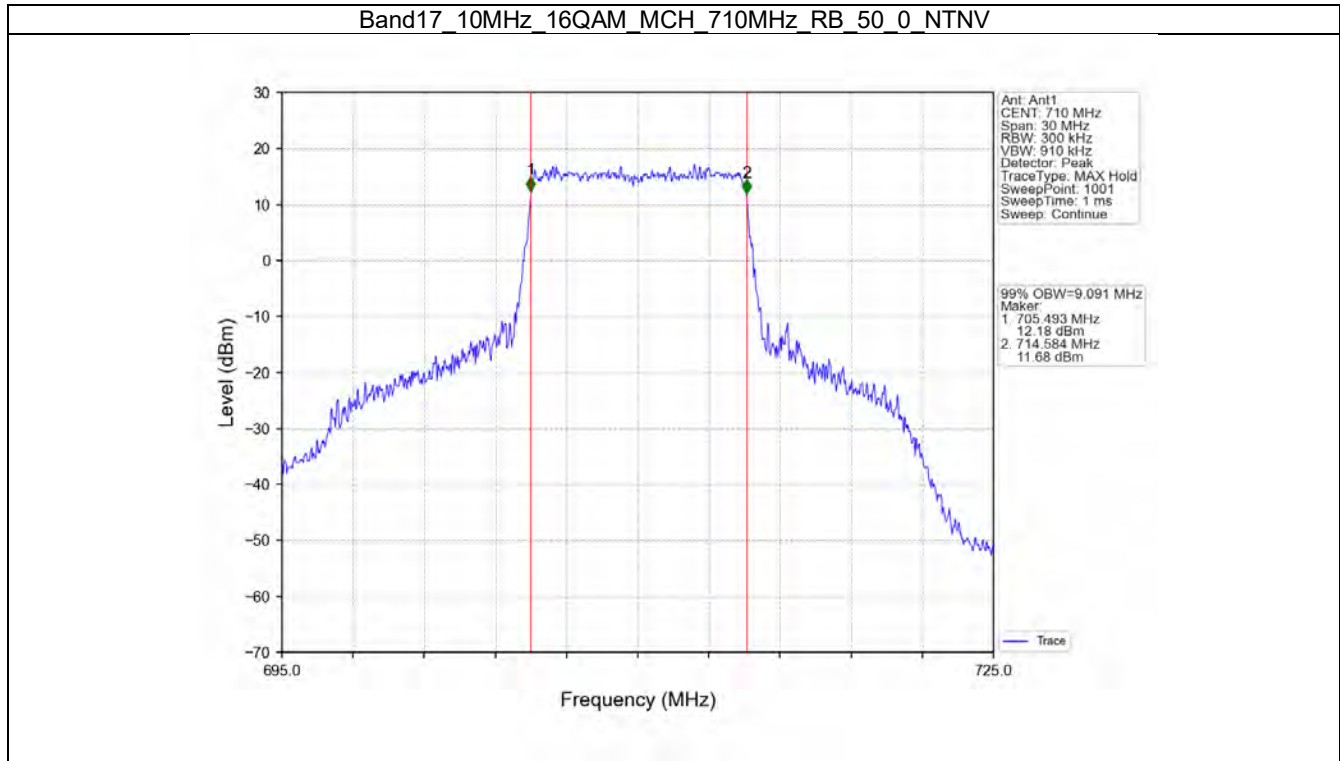


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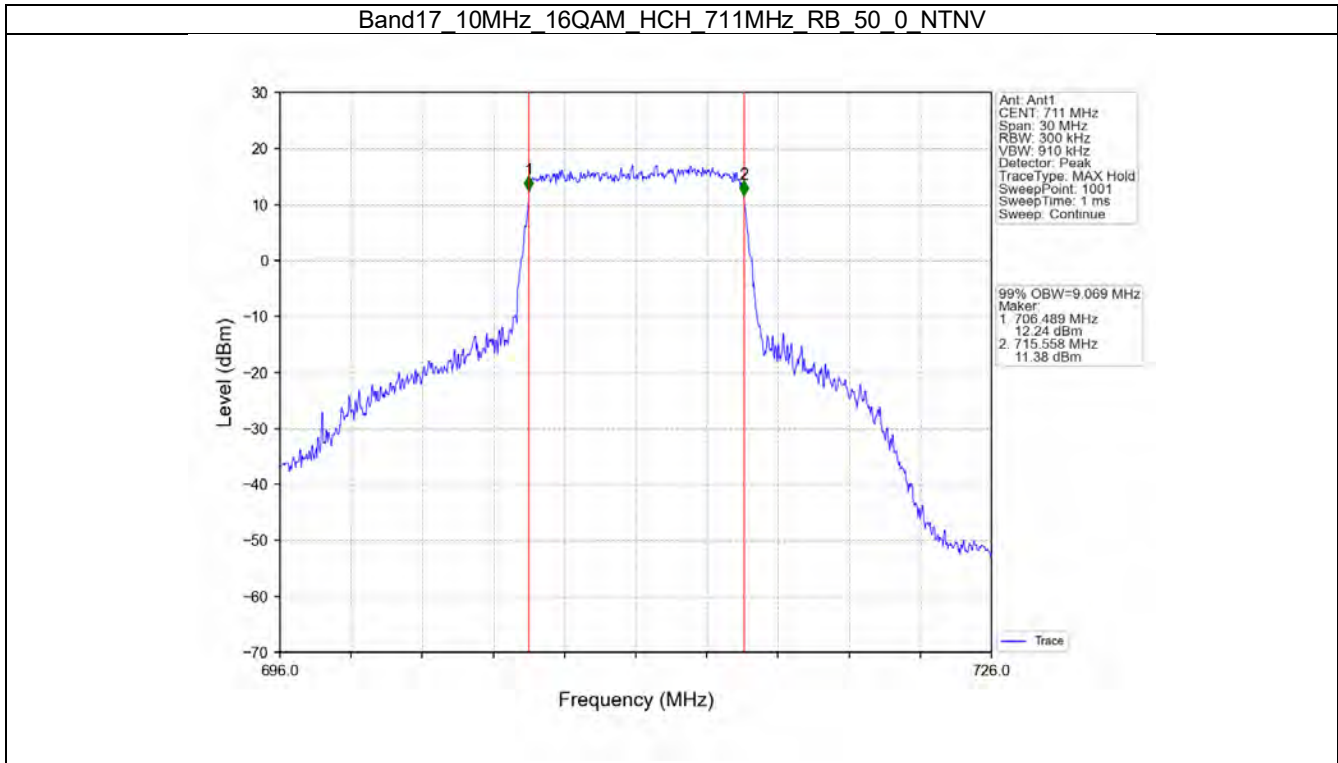


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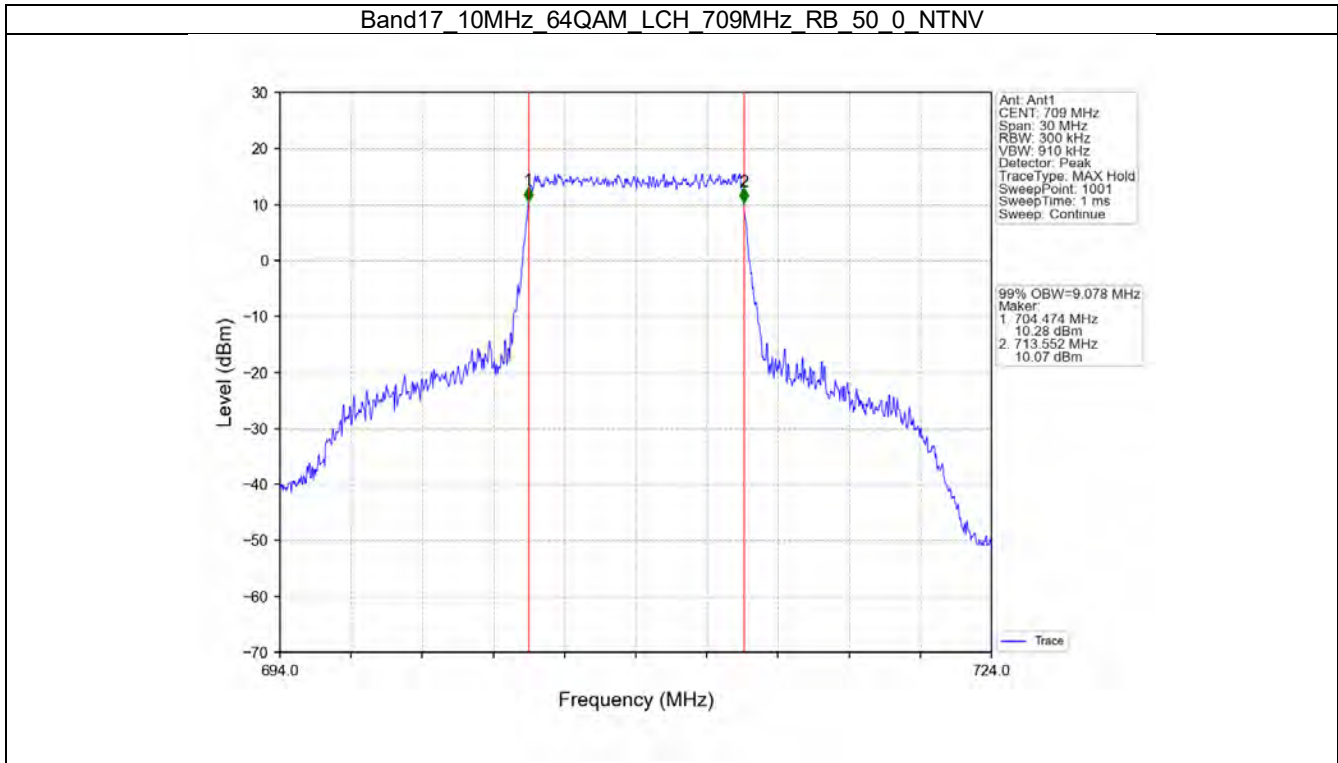


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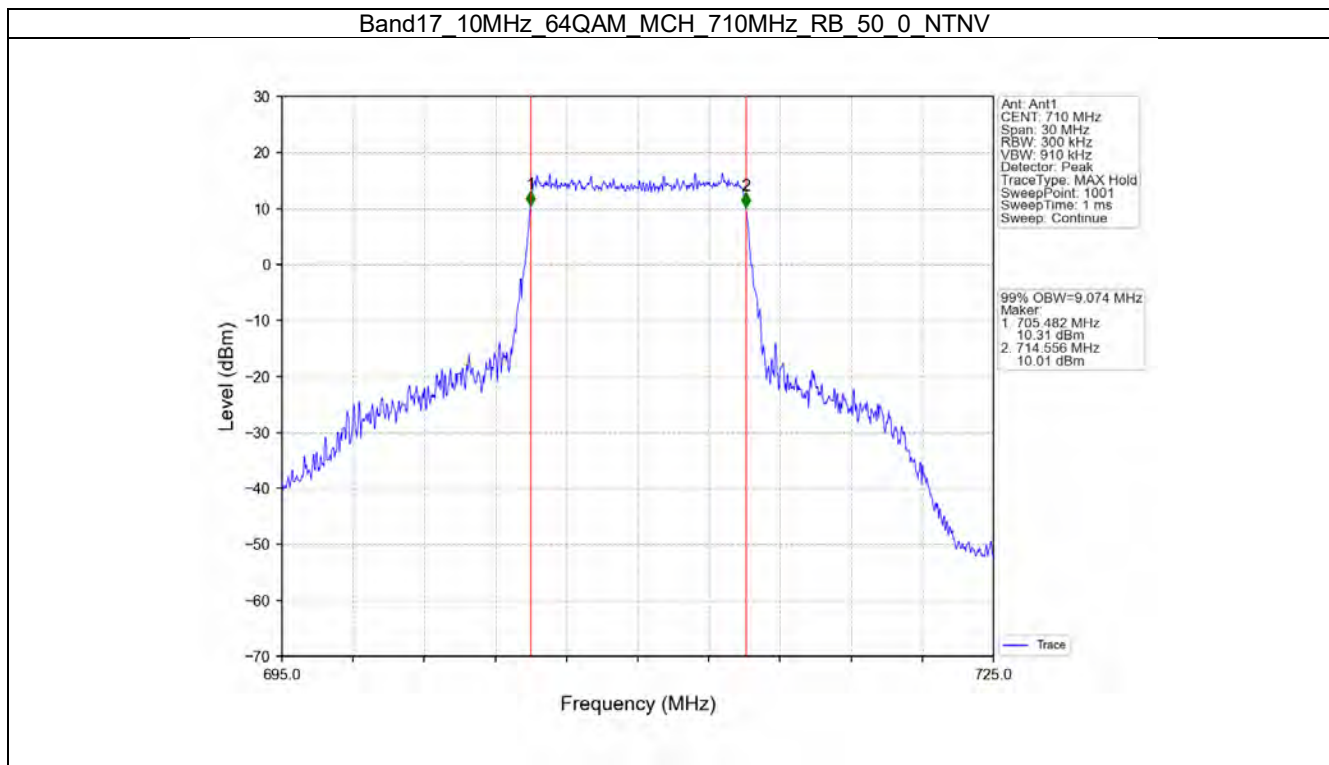
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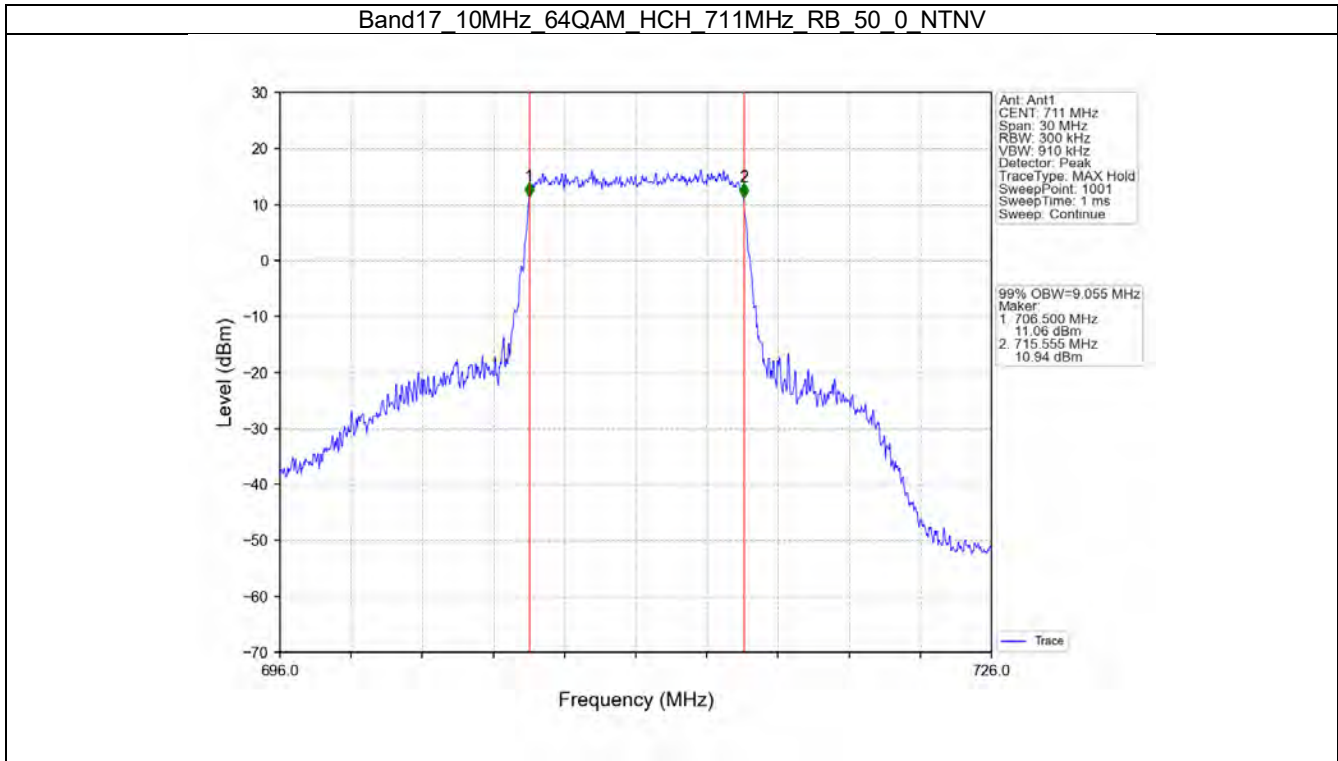


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3.2 Band17_XDB

3.2.1 Test Result

Band: 17 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	5.170	/	Pass
		710	25	0	5.255	/	Pass
		713.5	25	0	5.327	/	Pass
	16QAM	706.5	25	0	5.229	/	Pass
		710	25	0	5.251	/	Pass
		713.5	25	0	5.212	/	Pass
	64QAM	706.5	25	0	5.256	/	Pass
		710	25	0	5.278	/	Pass
		713.5	25	0	5.292	/	Pass
10	QPSK	709	50	0	10.201	/	Pass
		710	50	0	10.248	/	Pass
		711	50	0	10.237	/	Pass
	16QAM	709	50	0	10.180	/	Pass
		710	50	0	10.290	/	Pass
		711	50	0	10.077	/	Pass
	64QAM	709	50	0	10.311	/	Pass
		710	50	0	10.295	/	Pass
		711	50	0	10.228	/	Pass



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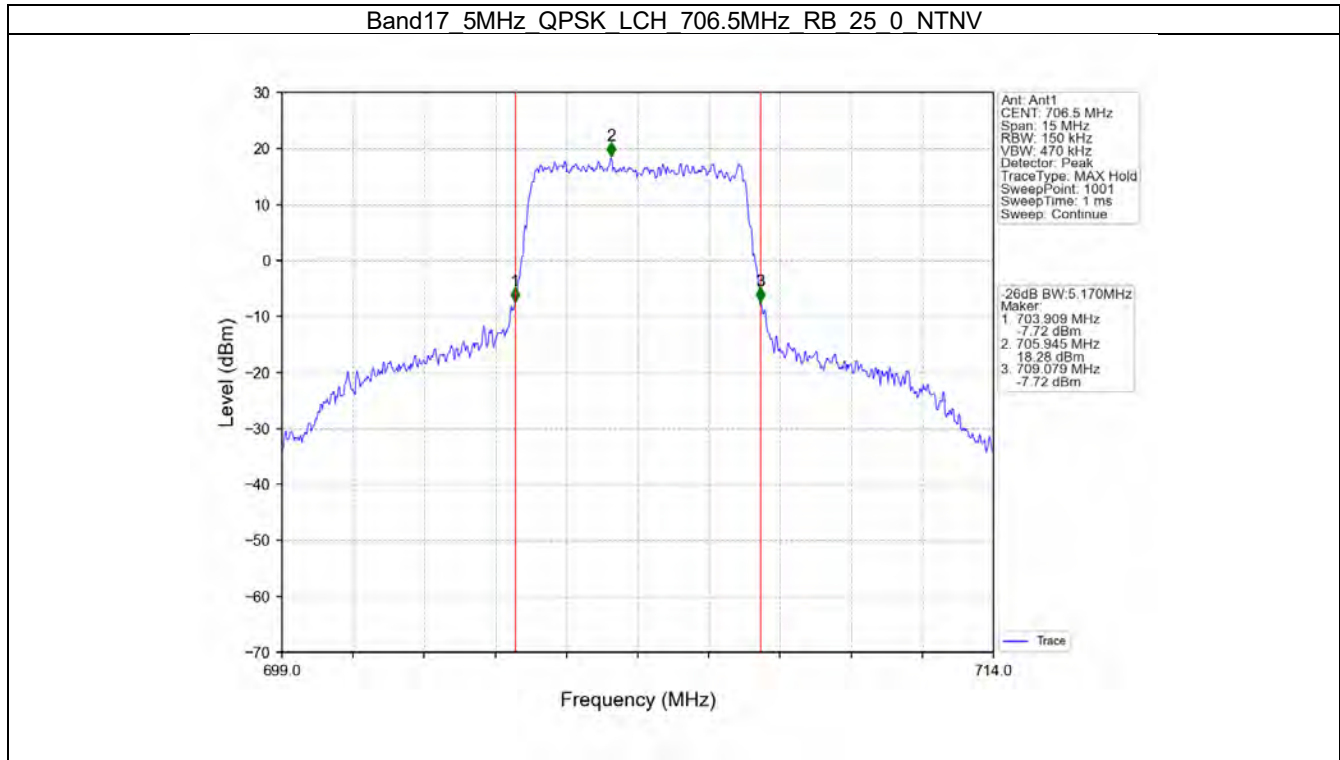
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3.2.2 Test Graph



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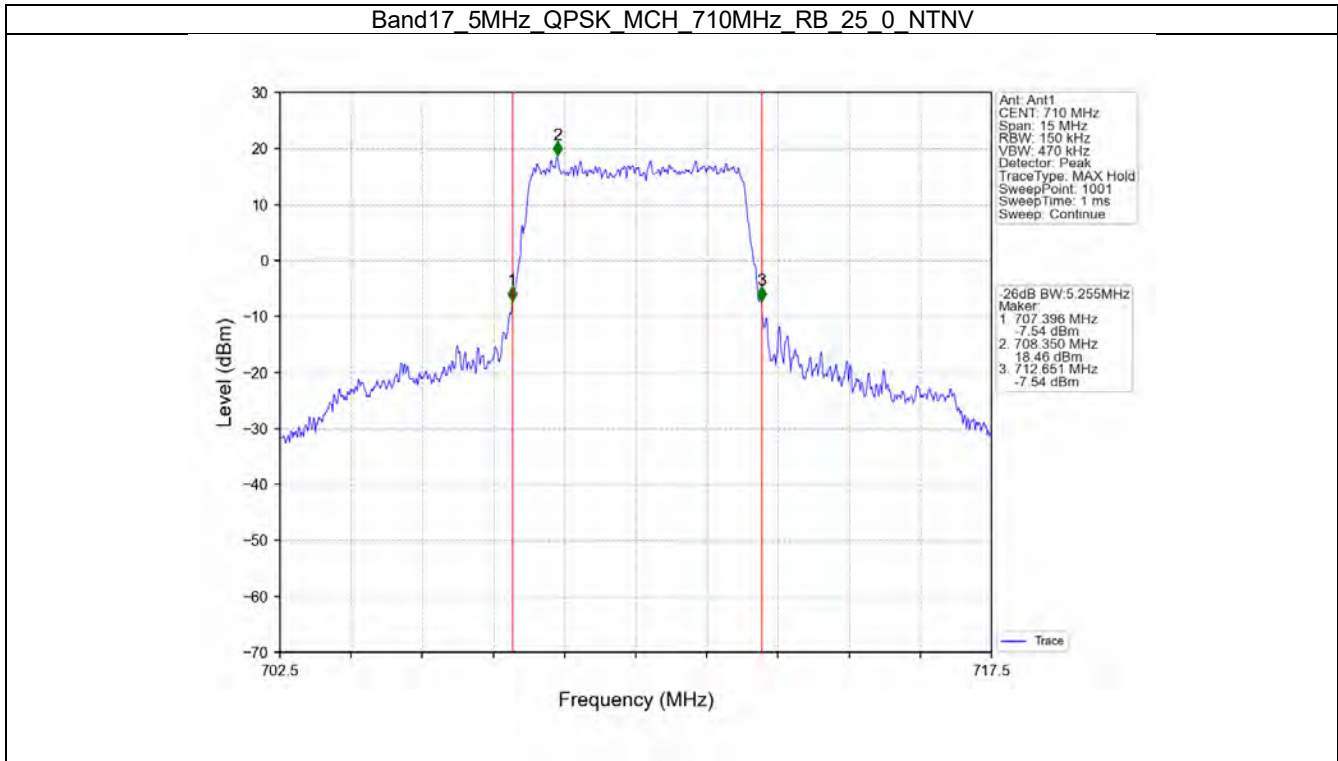


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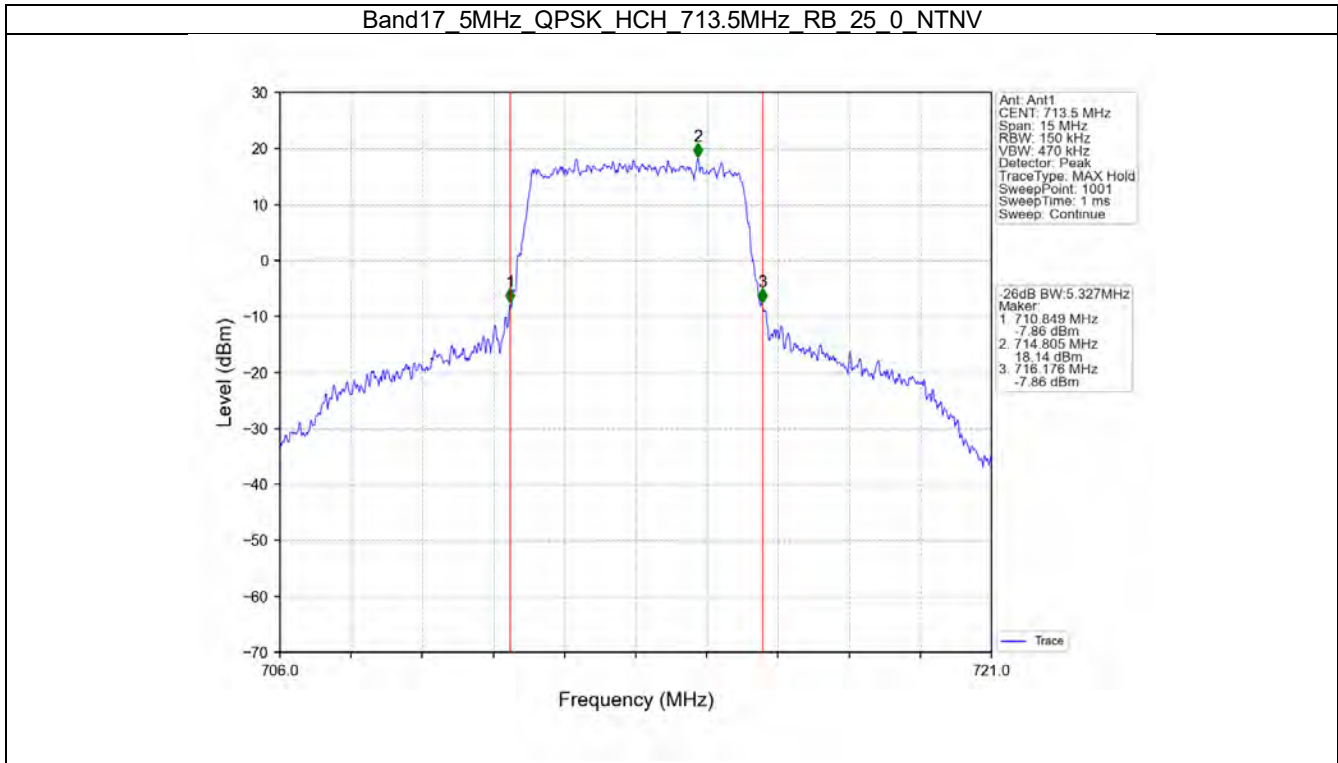


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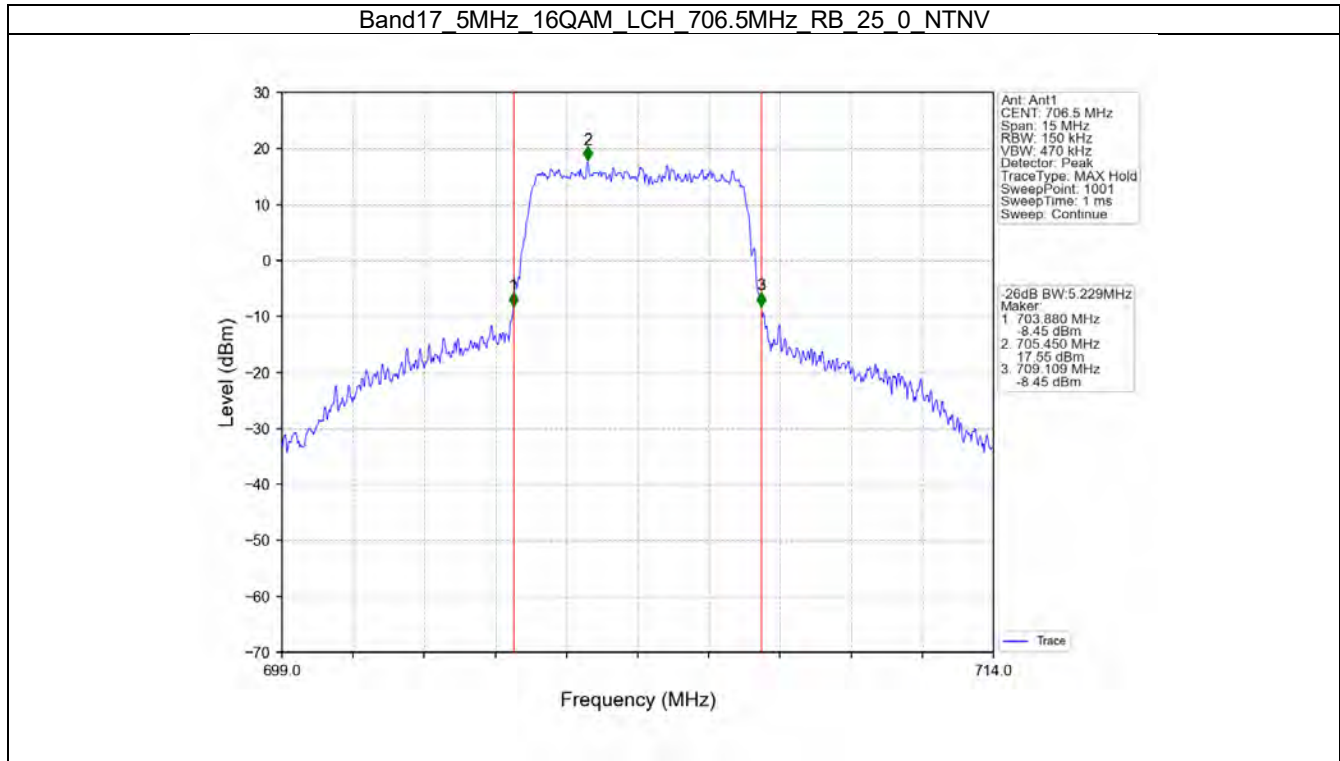


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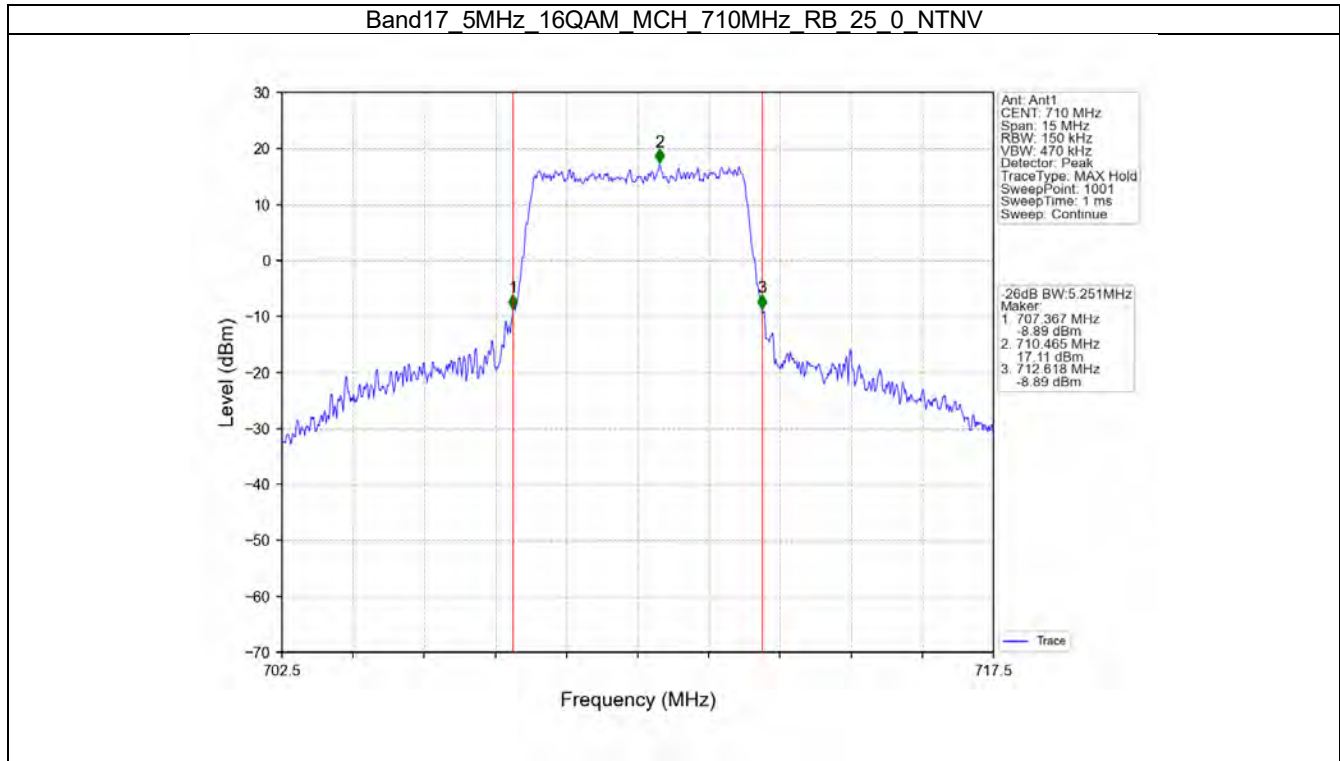


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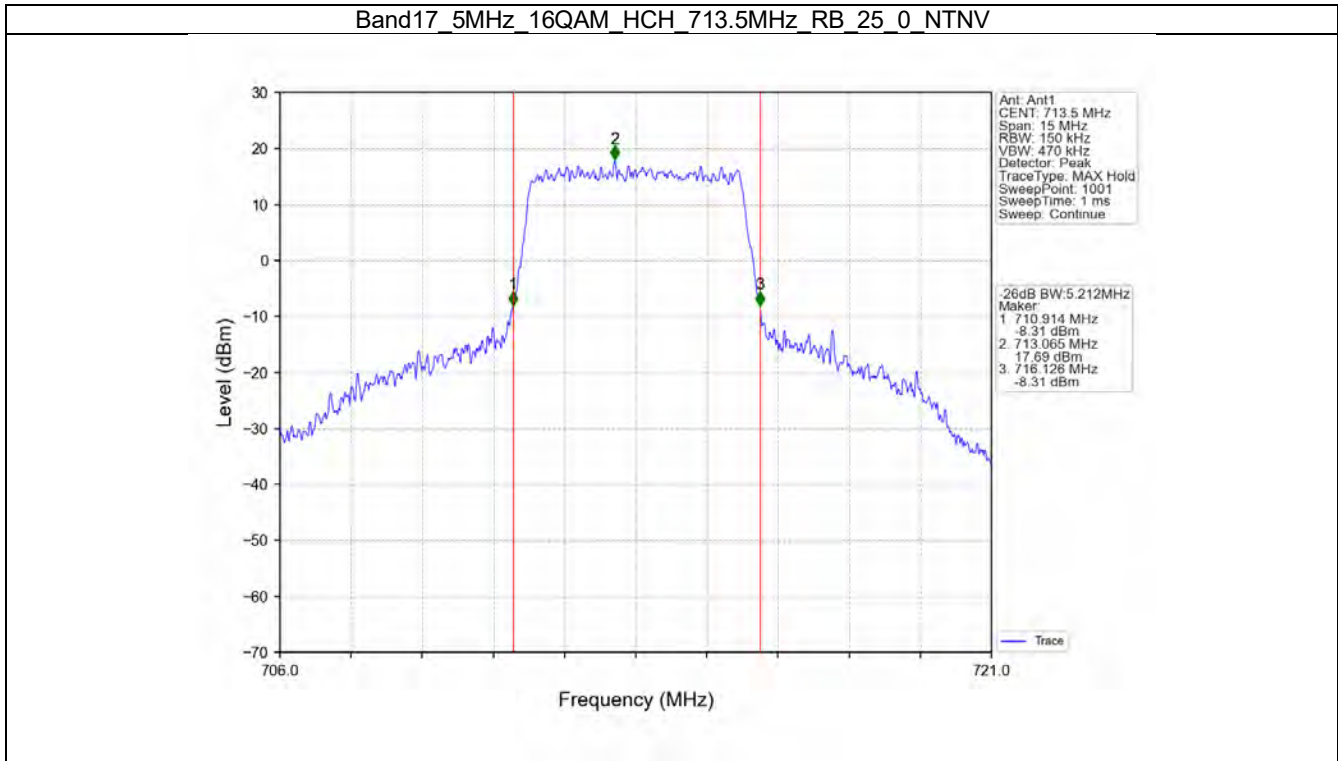


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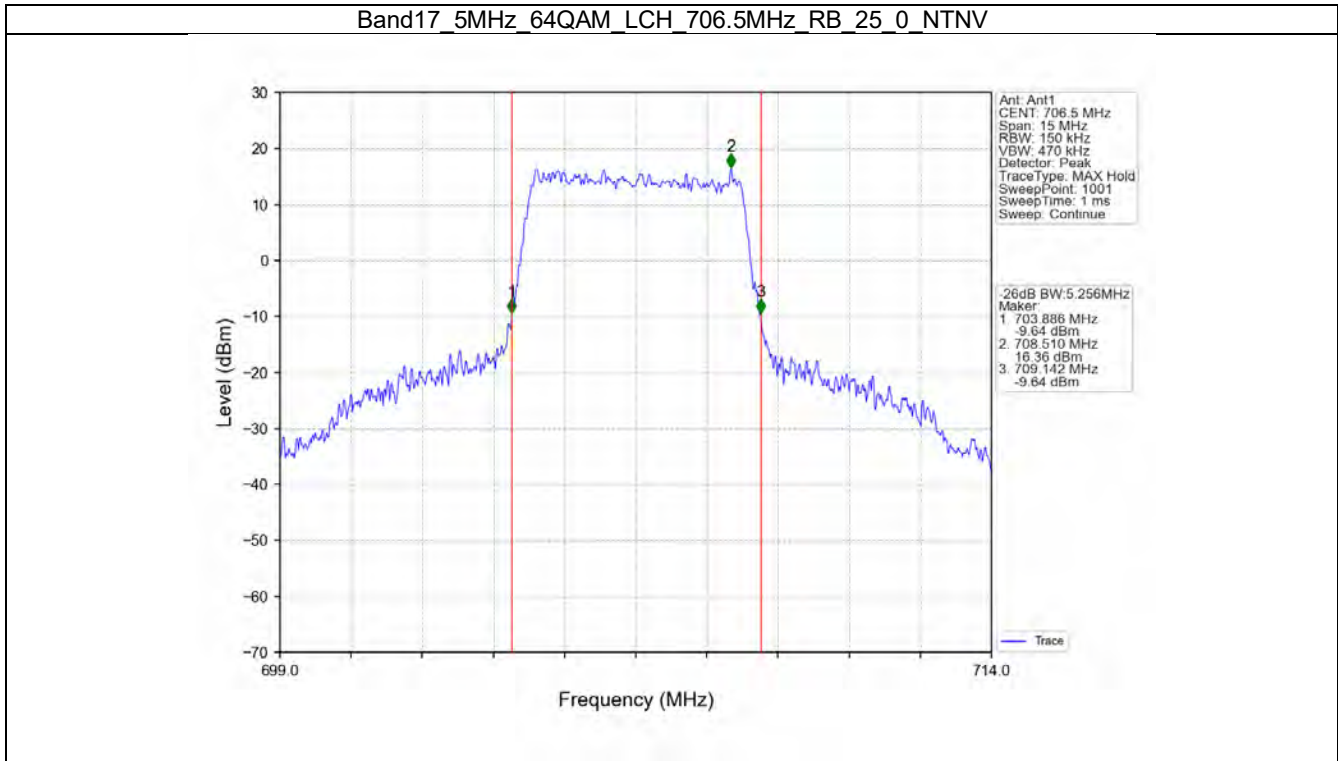


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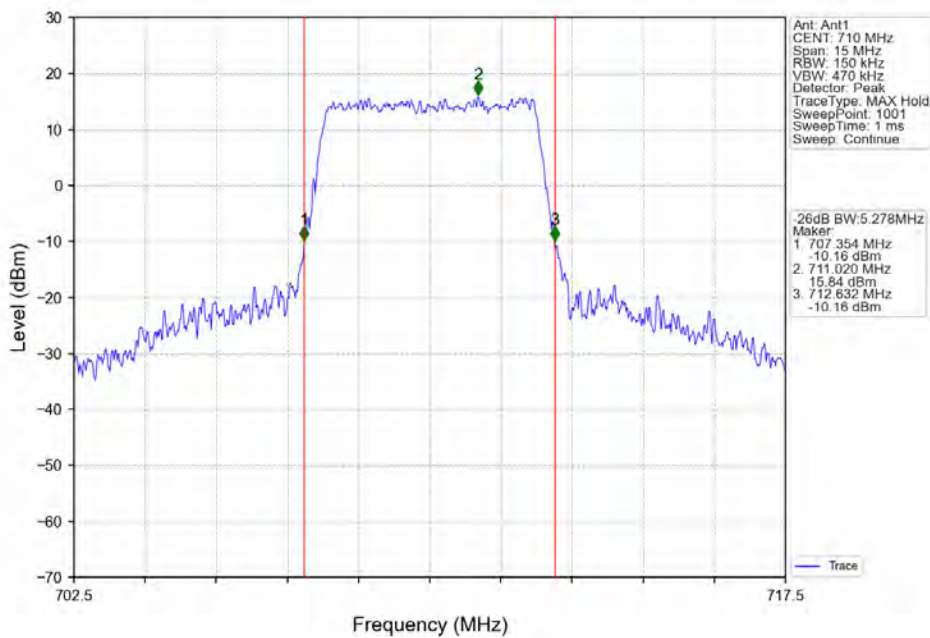
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Band17_5MHz_64QAM_MCH_710MHz_RB_25_0_NTNV



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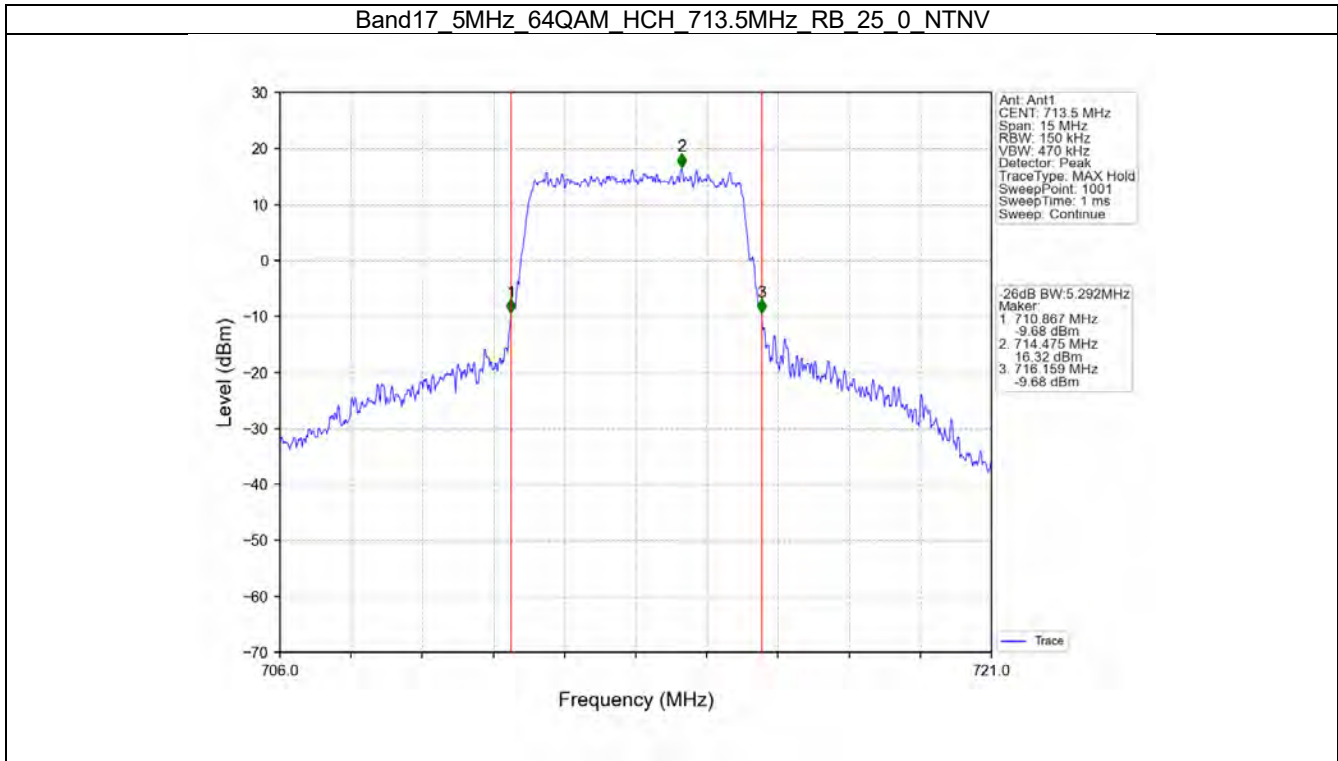


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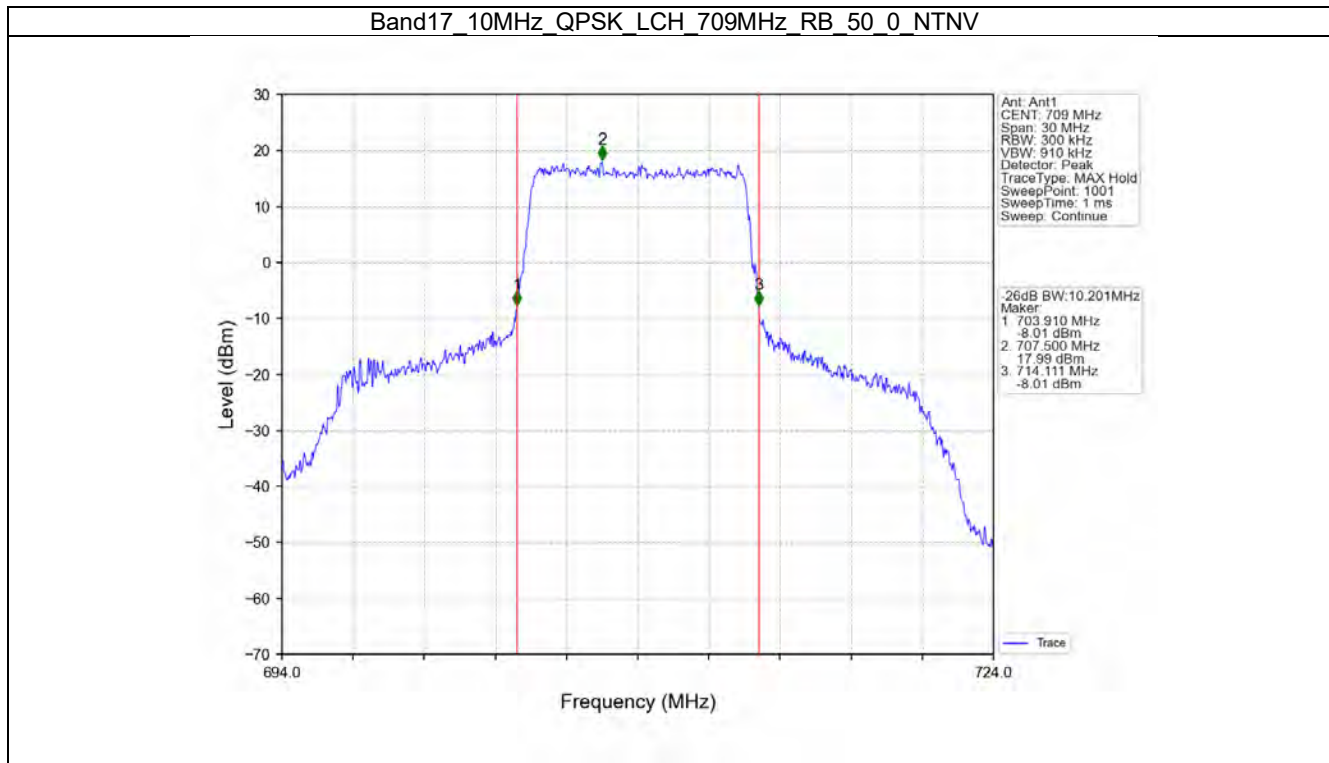
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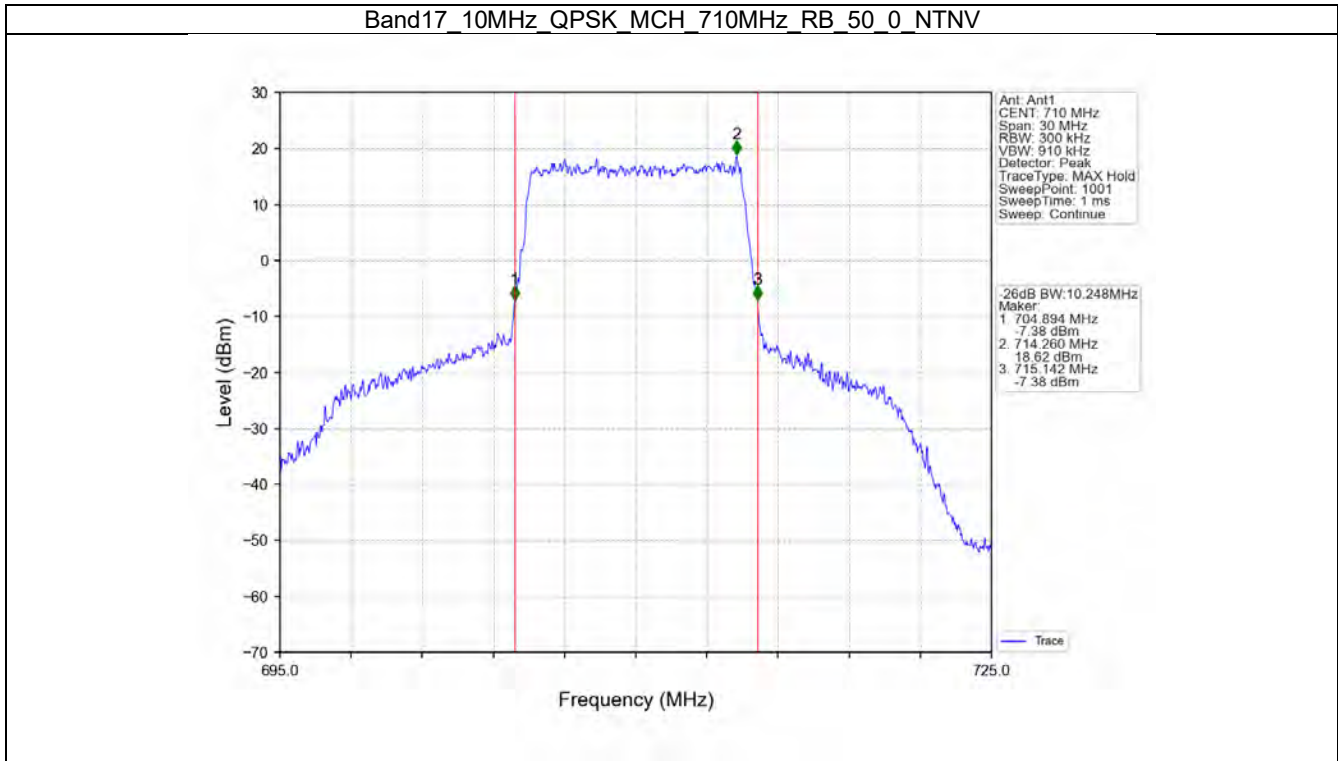


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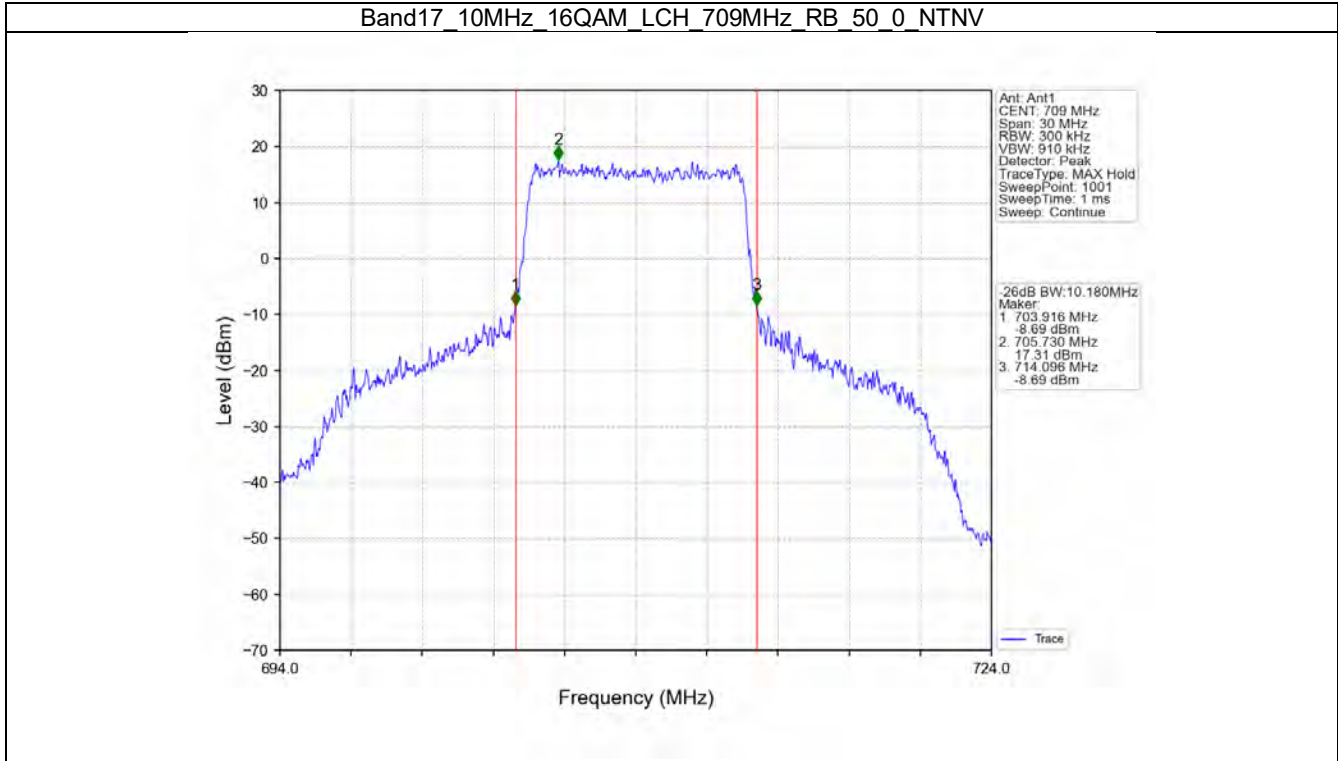


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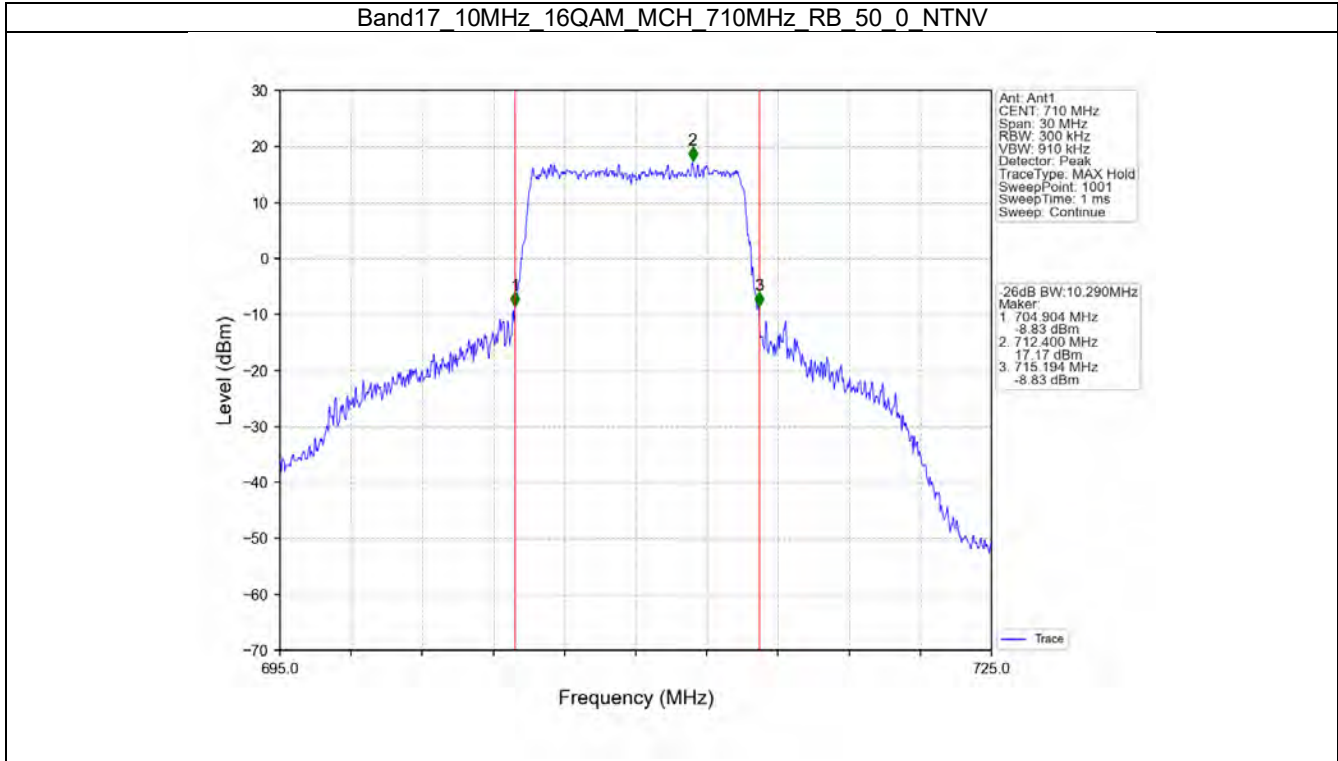


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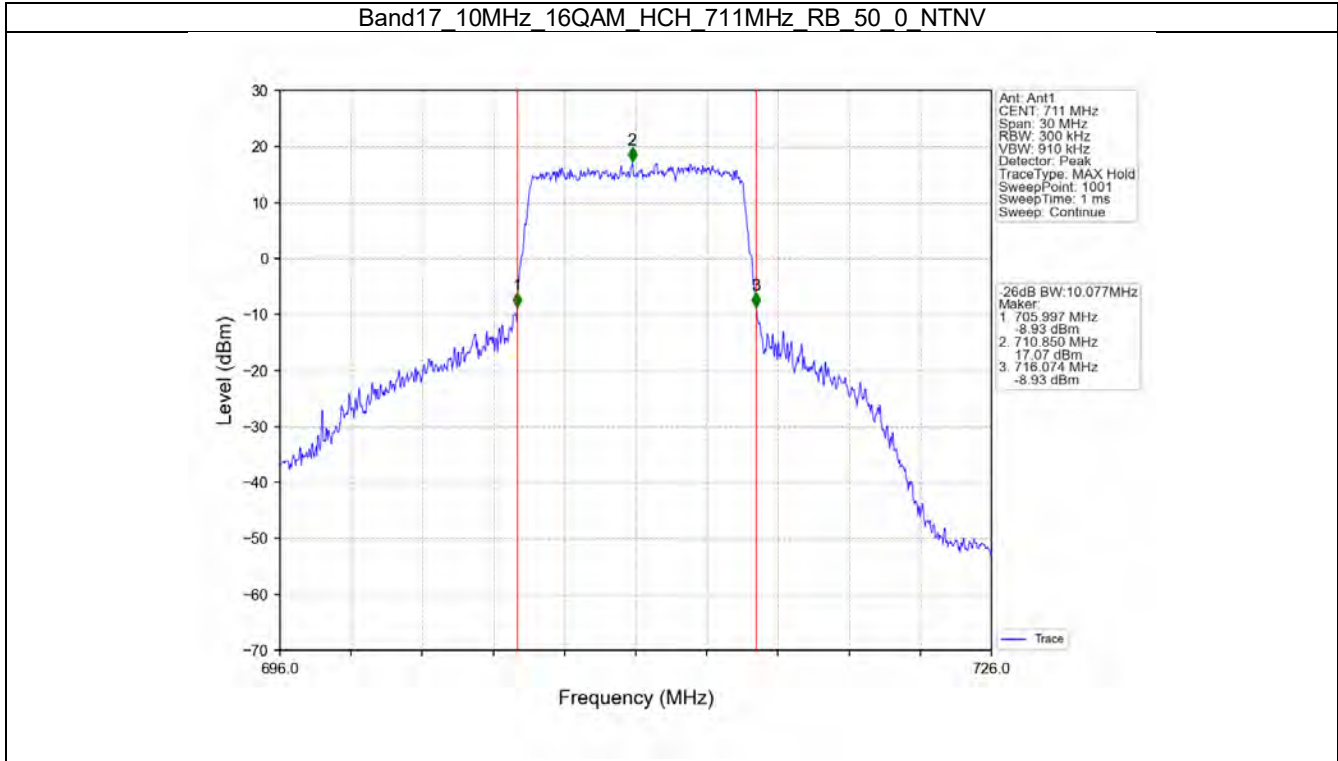


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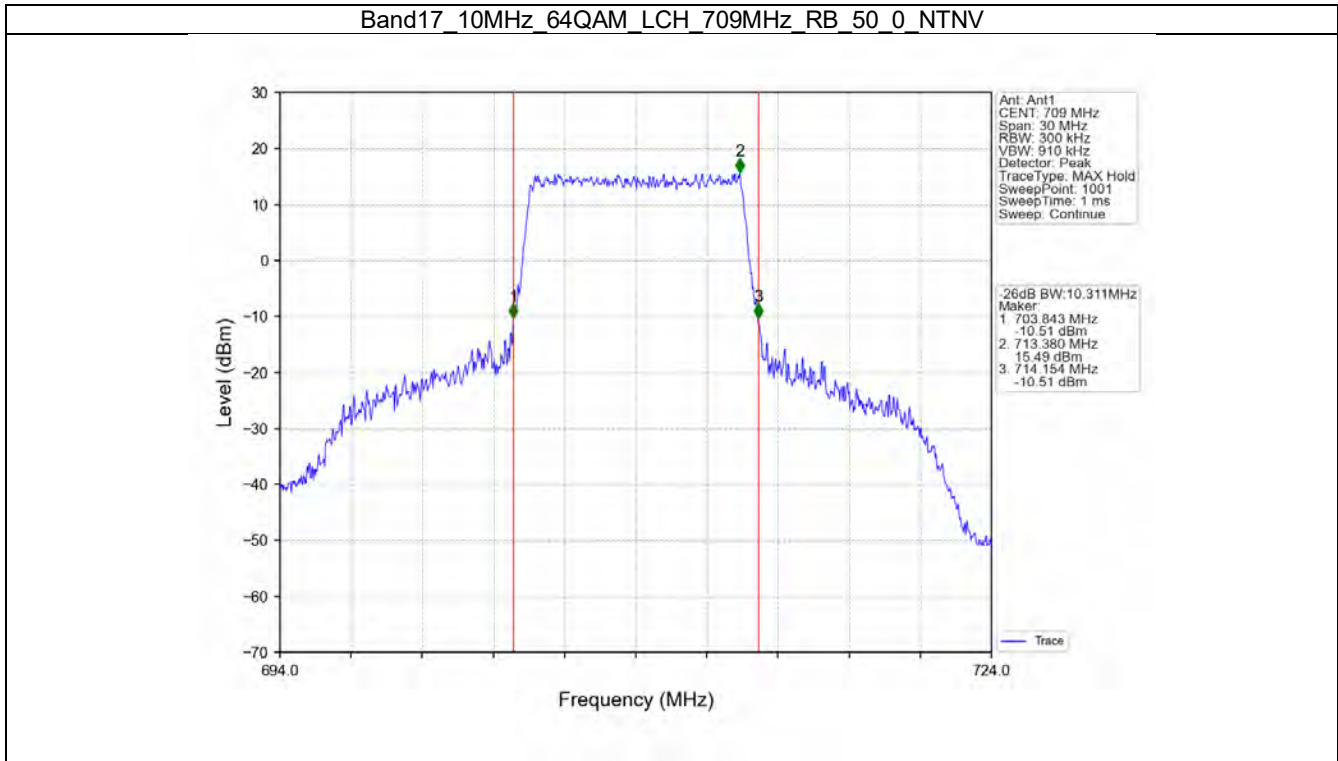


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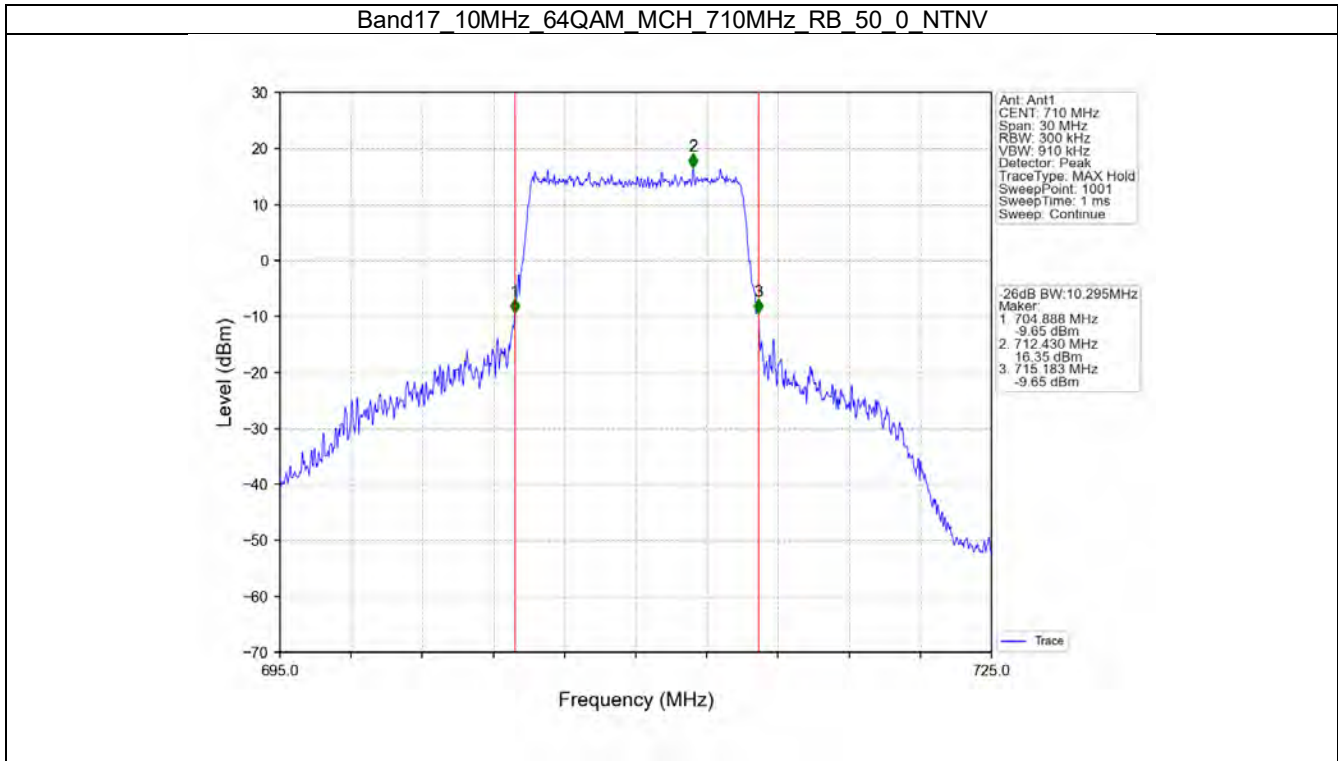


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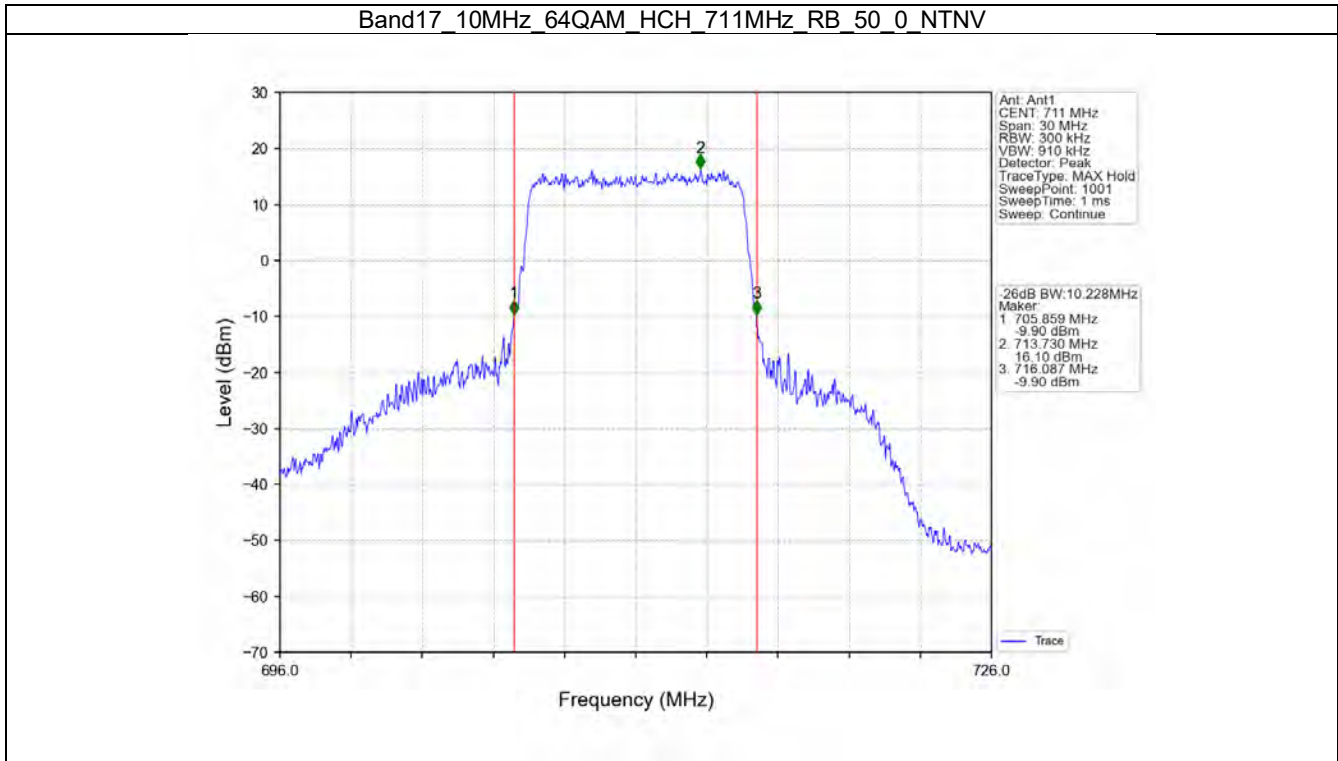


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4. Peak-Average Ratio

4.1 B17_5MHz

4.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	25	0	4.96	<=13	Pass
	710	25	0	5.33	<=13	Pass
	713.5	25	0	4.83	<=13	Pass
16QAM	706.5	25	0	5.73	<=13	Pass
	710	25	0	6.12	<=13	Pass
	713.5	25	0	5.60	<=13	Pass
64QAM	706.5	25	0	6.13	<=13	Pass
	710	25	0	6.44	<=13	Pass
	713.5	25	0	6.00	<=13	Pass



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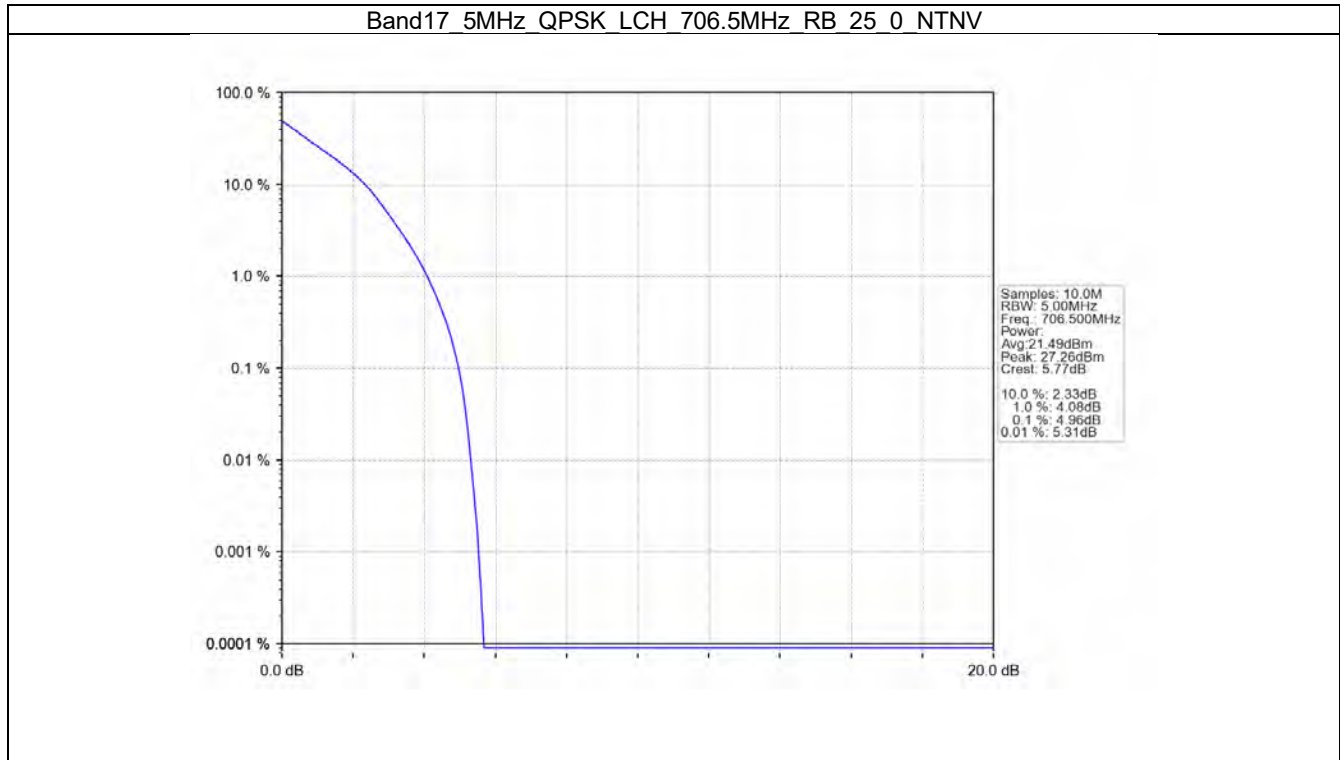
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4.1.2 Test Graph



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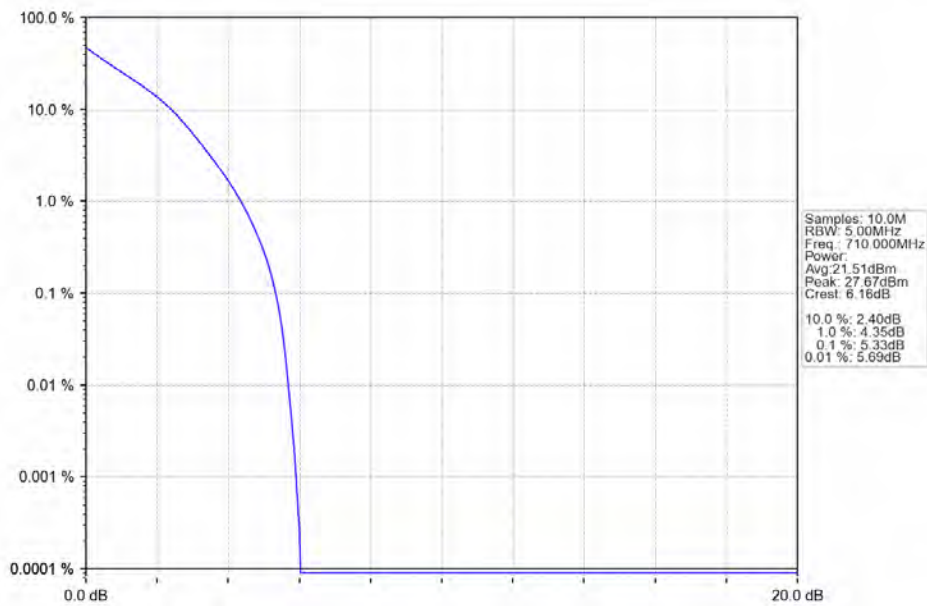
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Band17_5MHz_QPSK_MCH_710MHz_RB_25_0_NTNV



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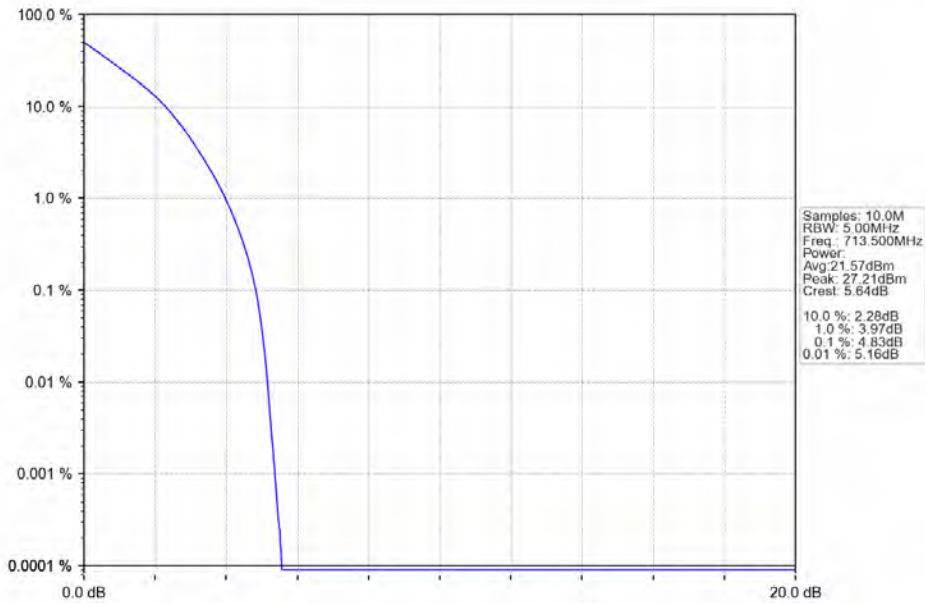
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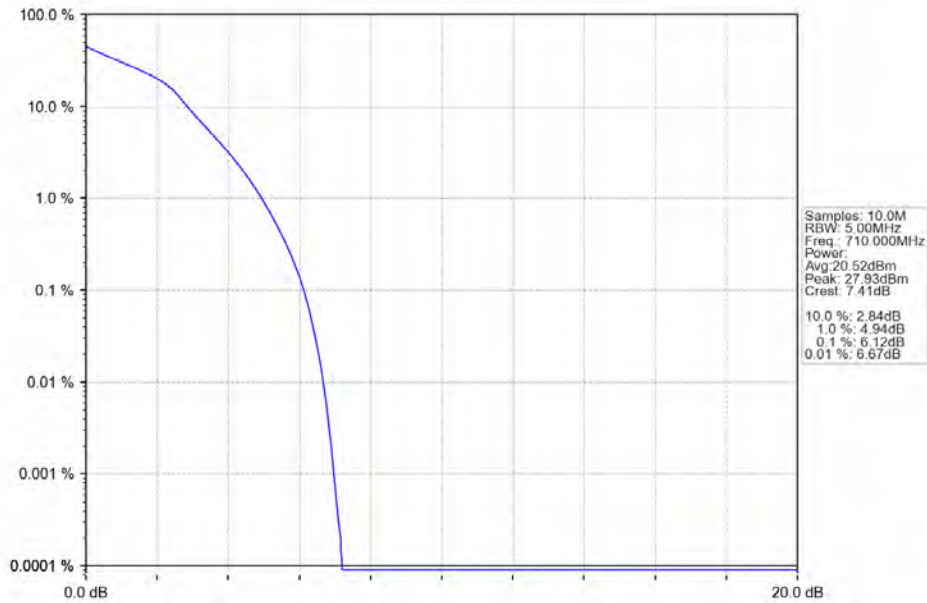
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Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



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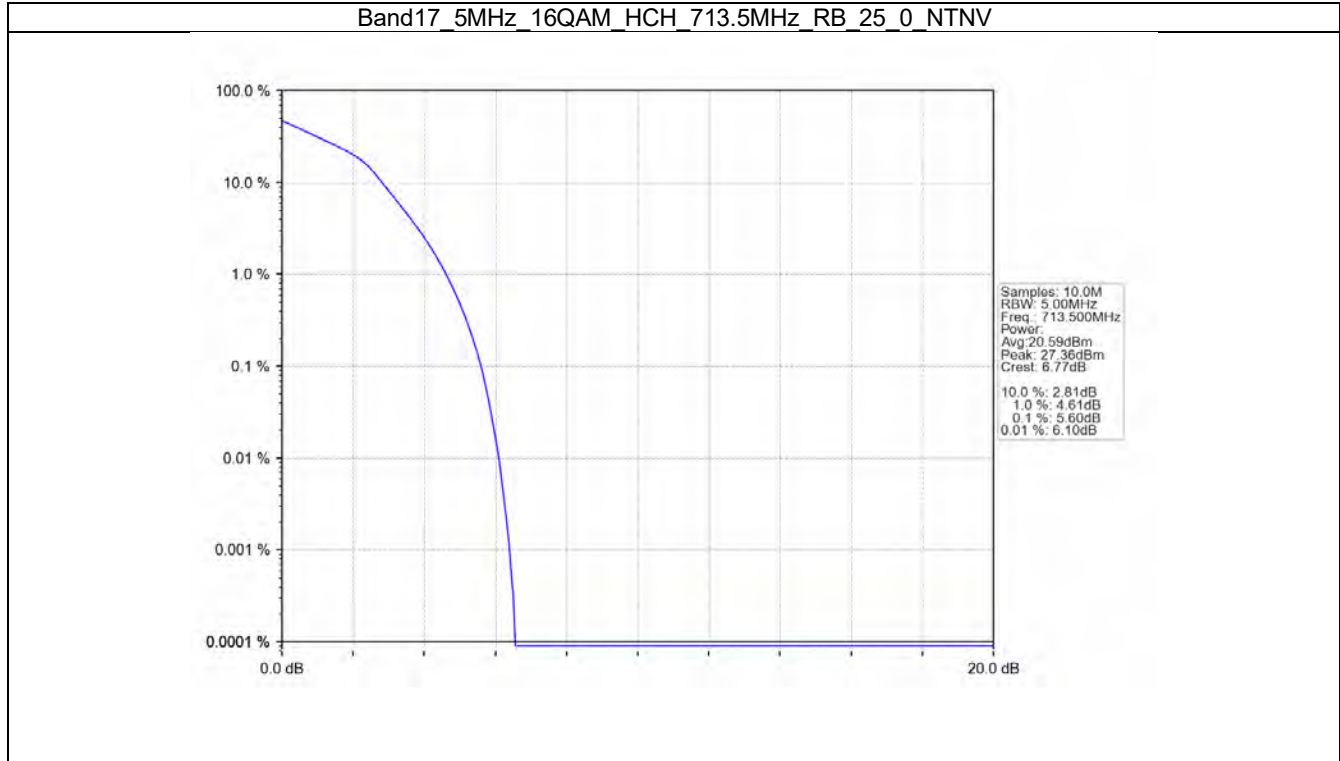


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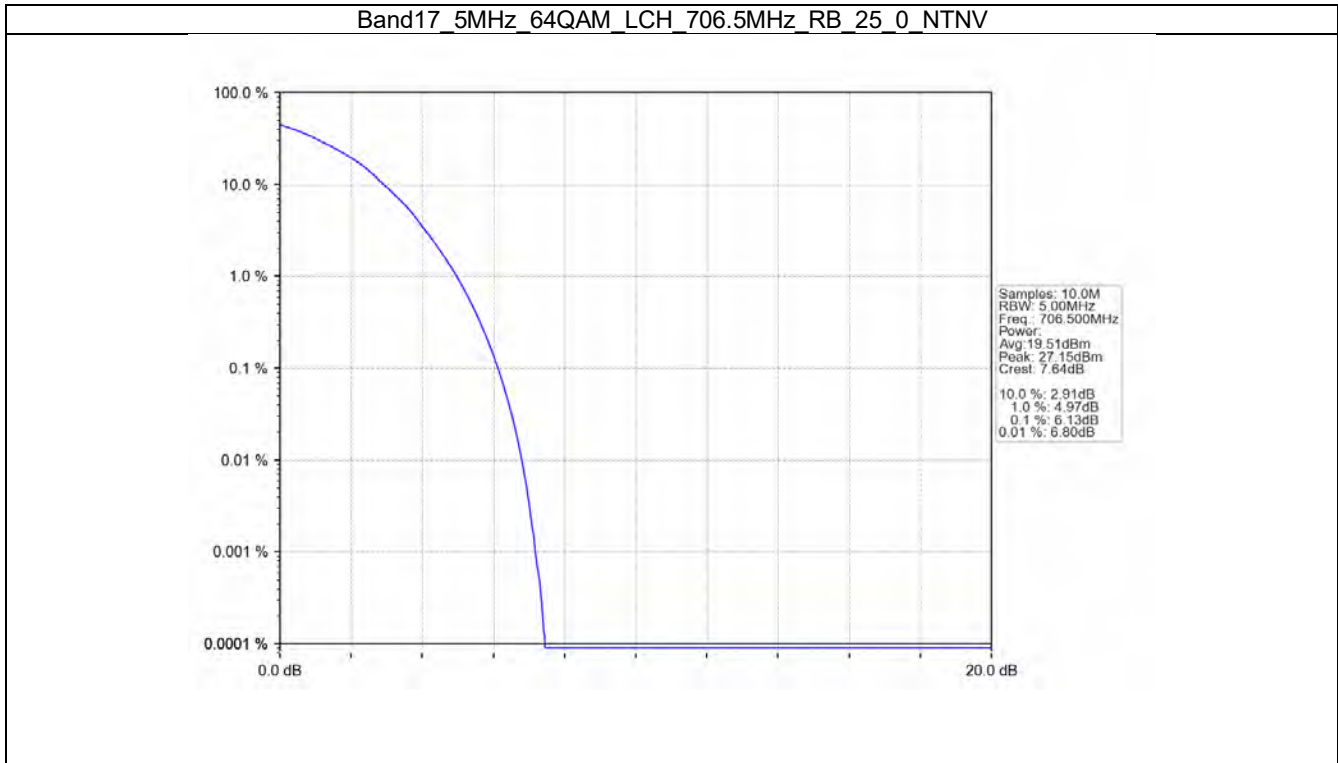


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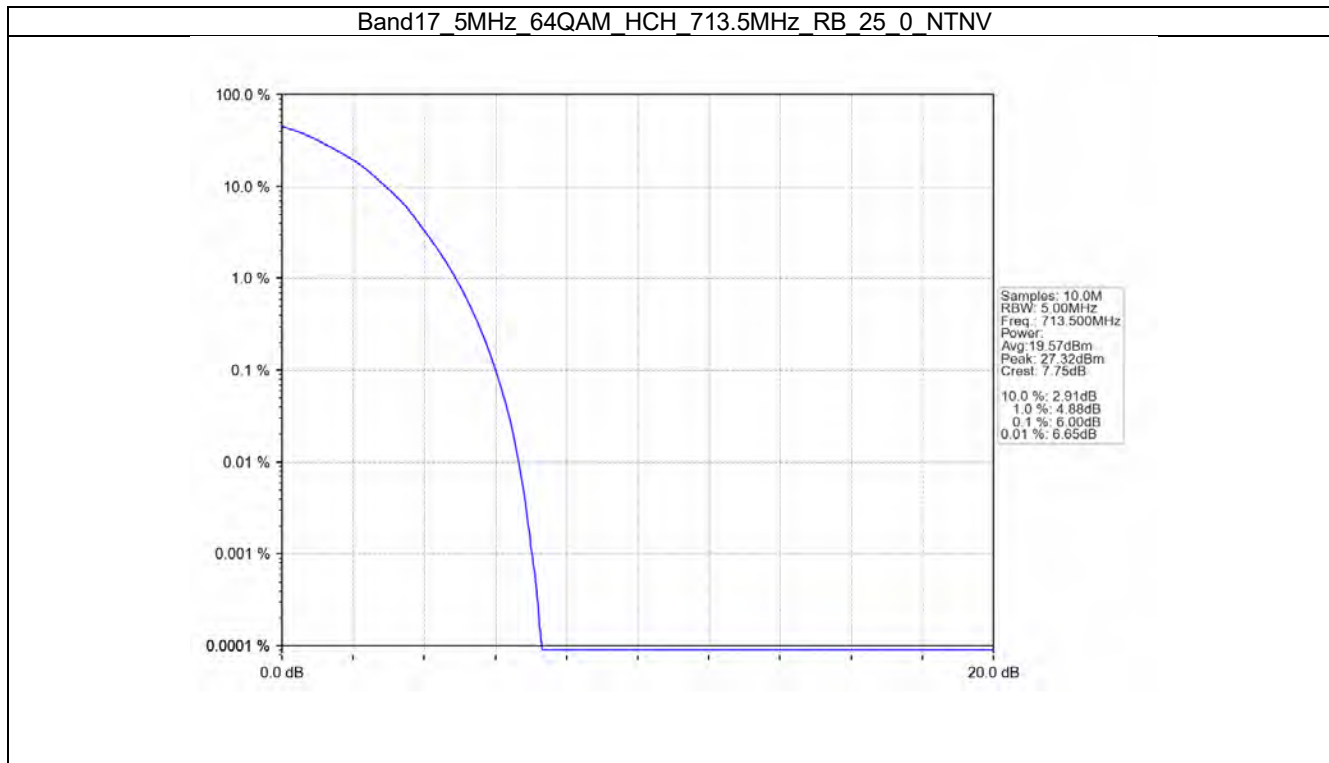
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4.2 B17_10MHz

4.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	709	50	0	5.09	<=13	Pass
	710	50	0	5.21	<=13	Pass
	711	50	0	5.16	<=13	Pass
16QAM	709	50	0	5.87	<=13	Pass
	710	50	0	5.97	<=13	Pass
	711	50	0	5.92	<=13	Pass
64QAM	709	50	0	6.21	<=13	Pass
	710	50	0	6.34	<=13	Pass
	711	50	0	6.32	<=13	Pass



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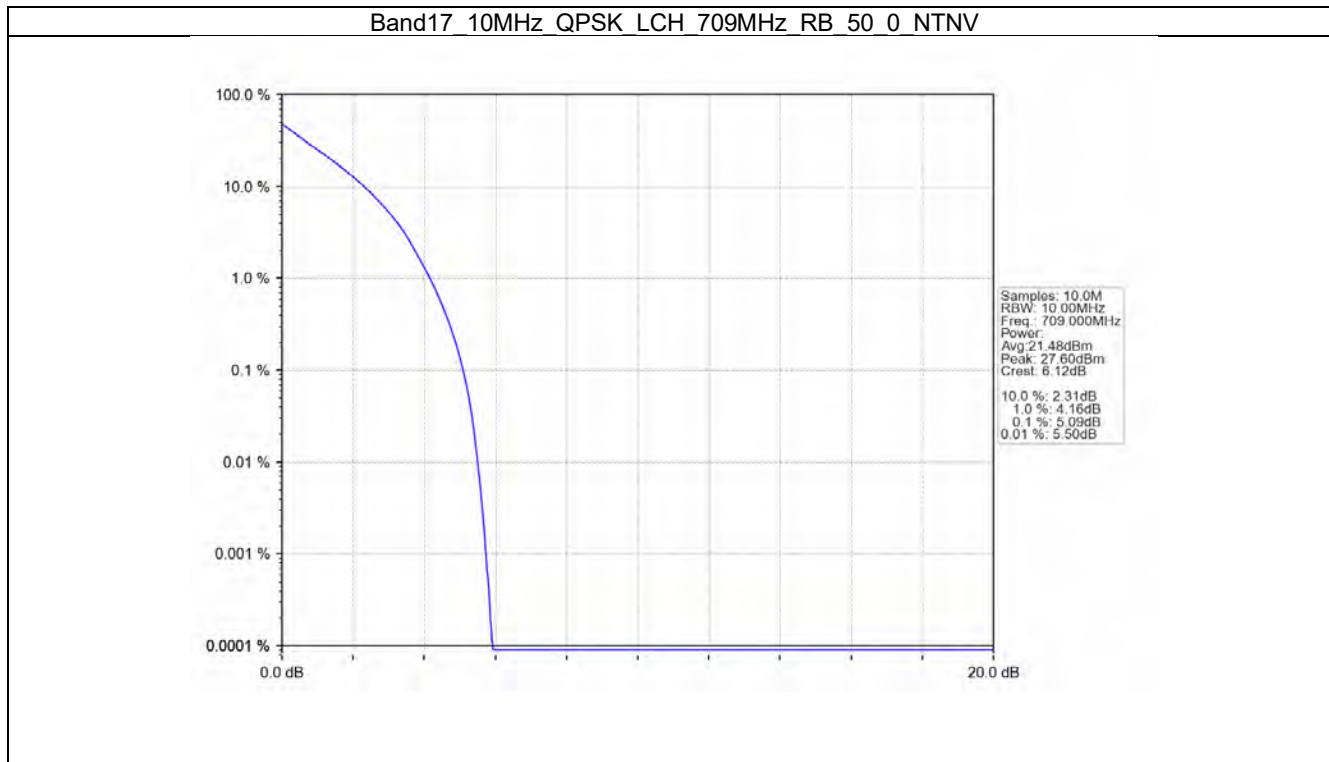
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4.2.2 Test Graph



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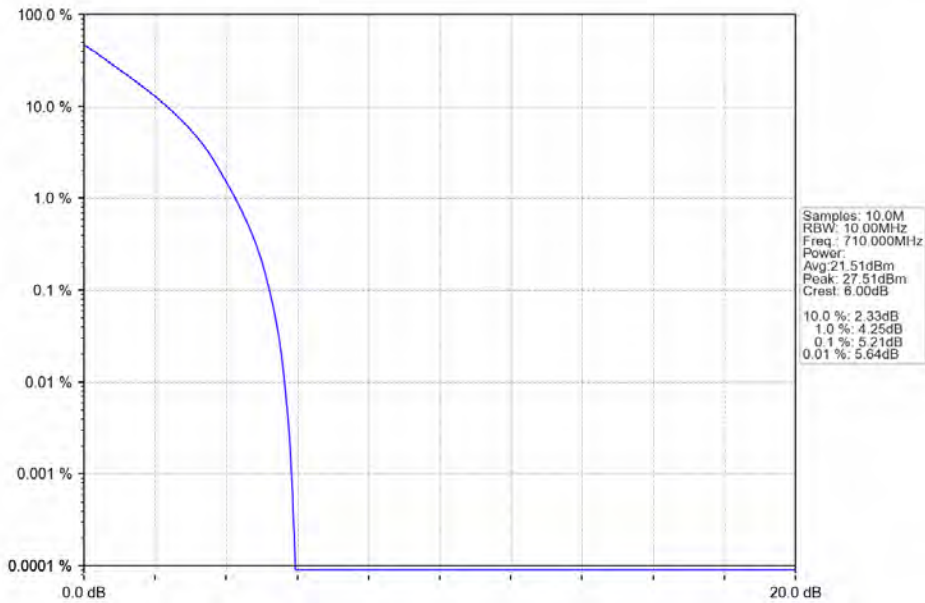
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Band17_10MHz_QPSK_MCH_710MHz_RB_50_0_NTNV



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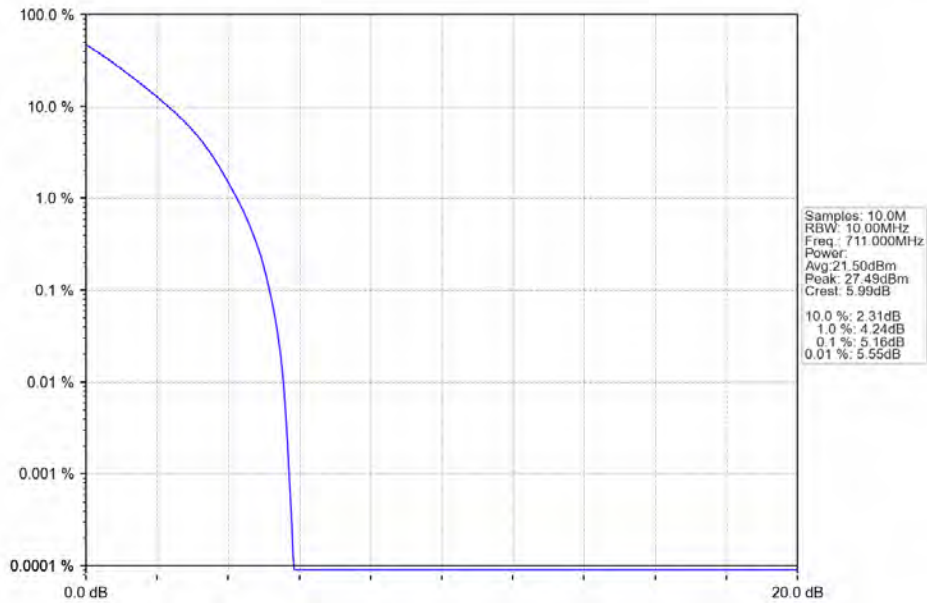
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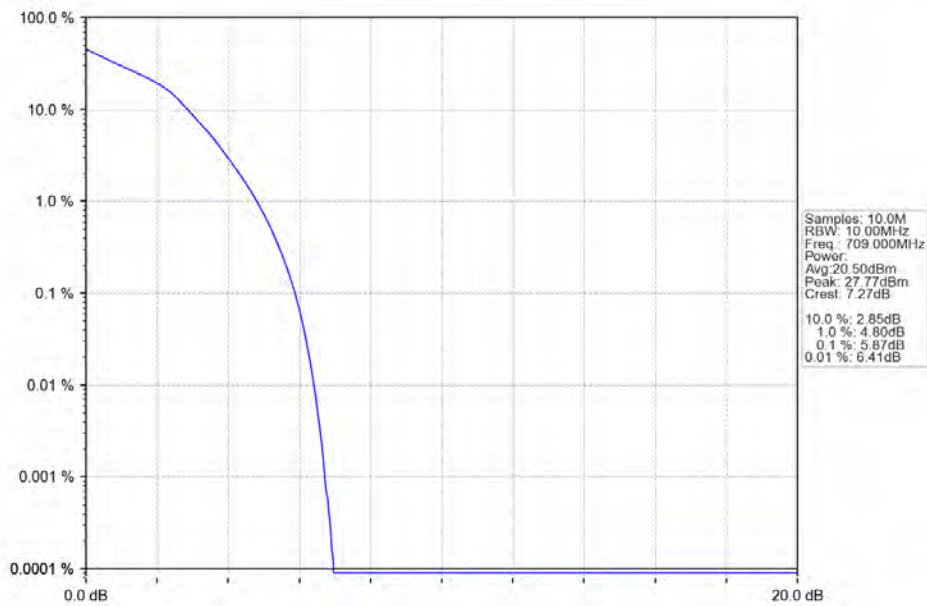
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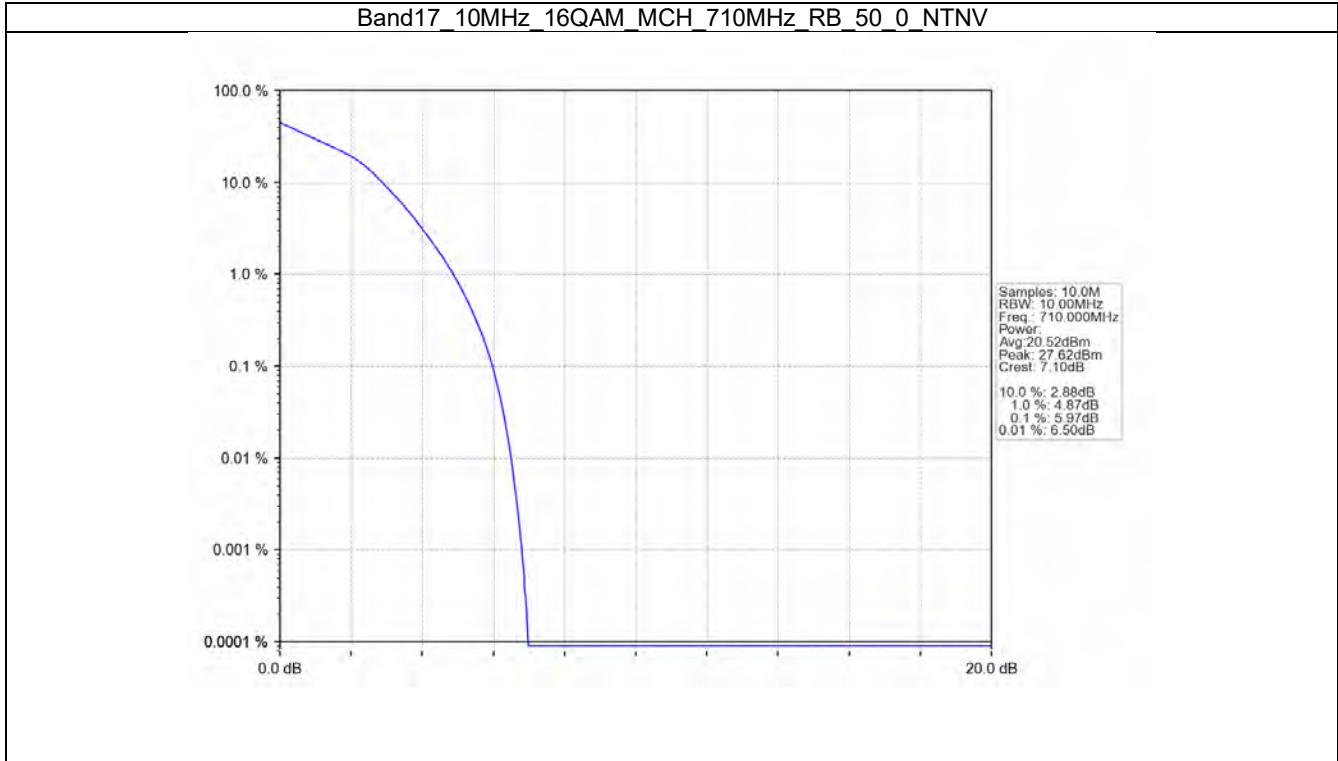
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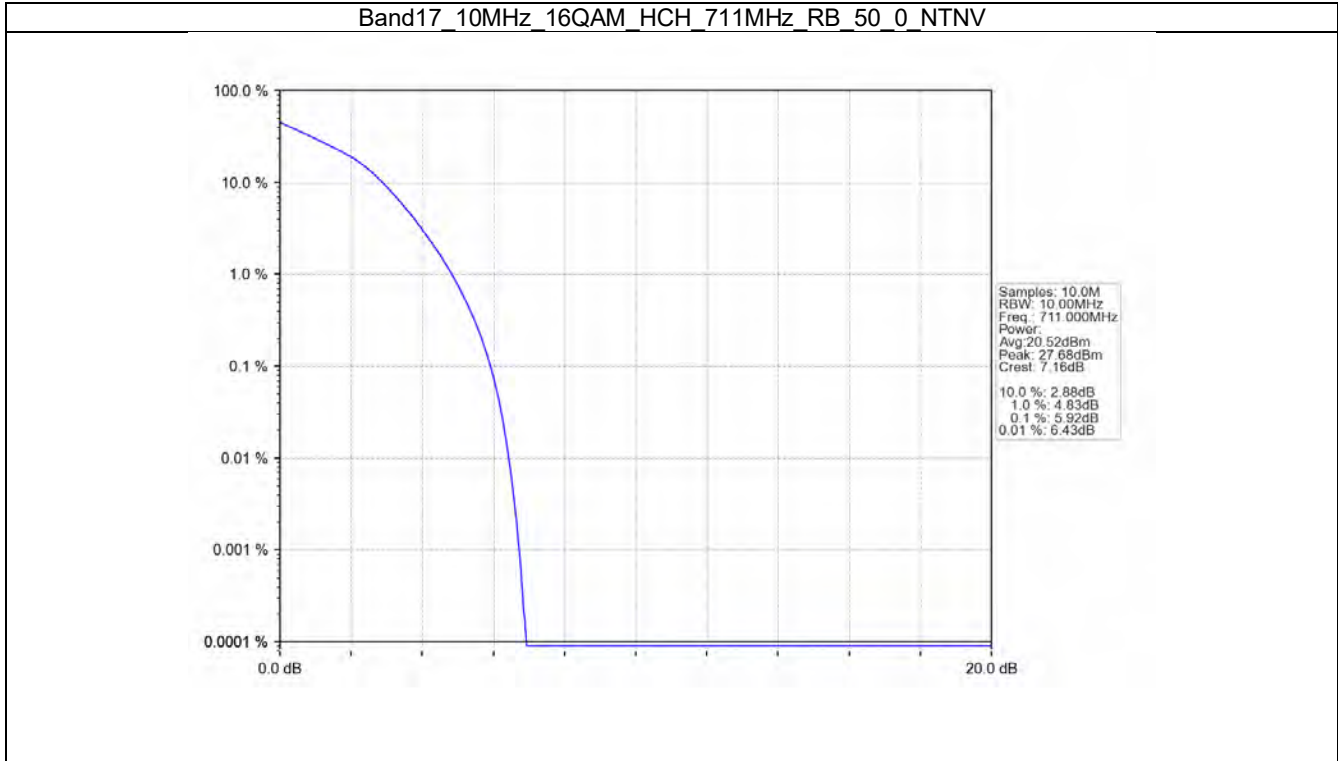


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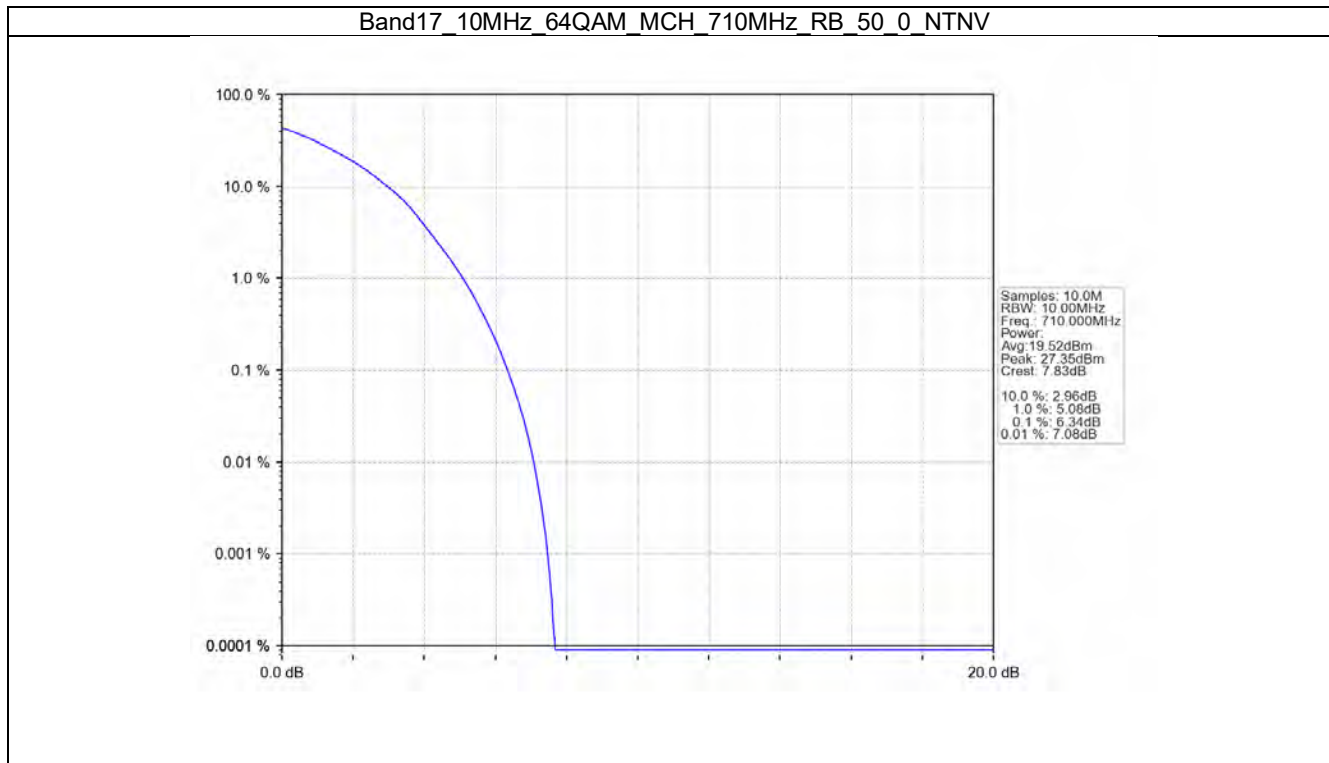
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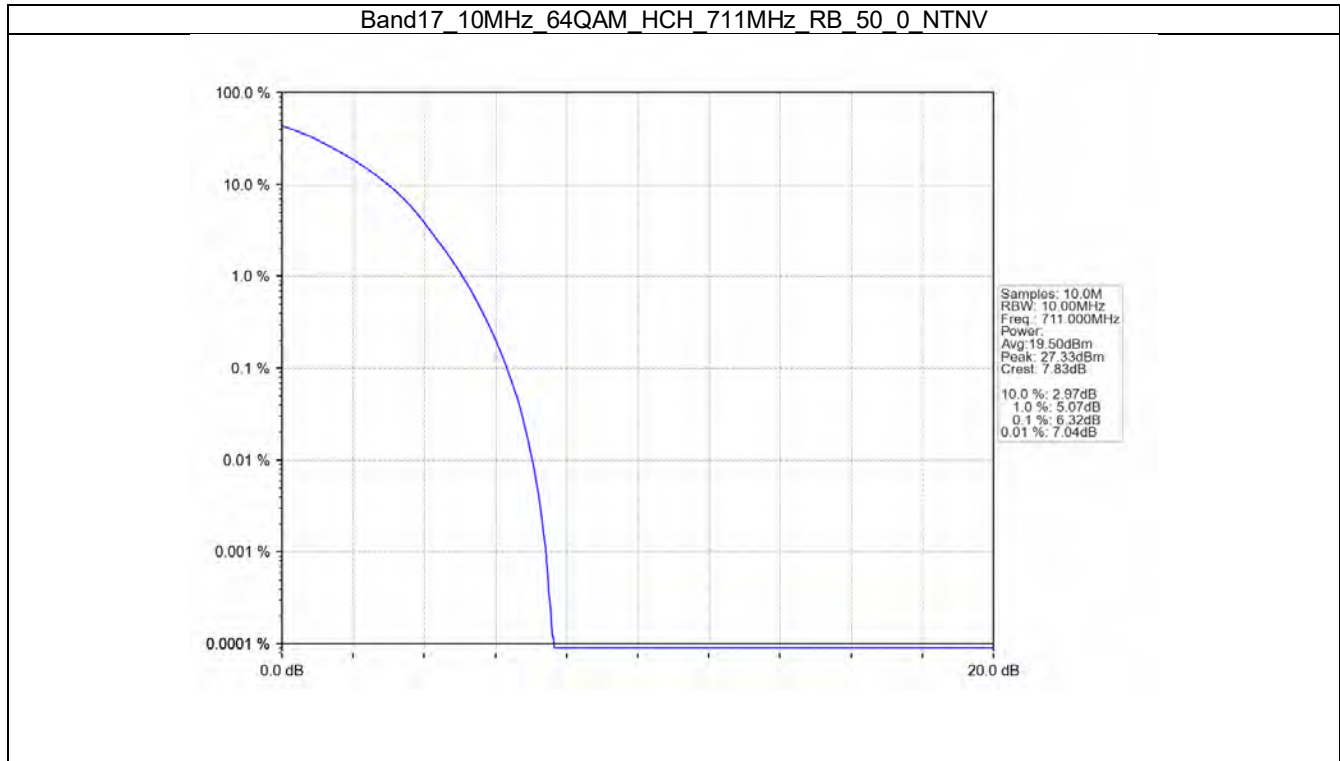


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5. Spurious Emission & Band Edges

5.1 B17_5MHz

5.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	713.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	706.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	713.5	1	24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
64QAM	706.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	710	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
	713.5	1	24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



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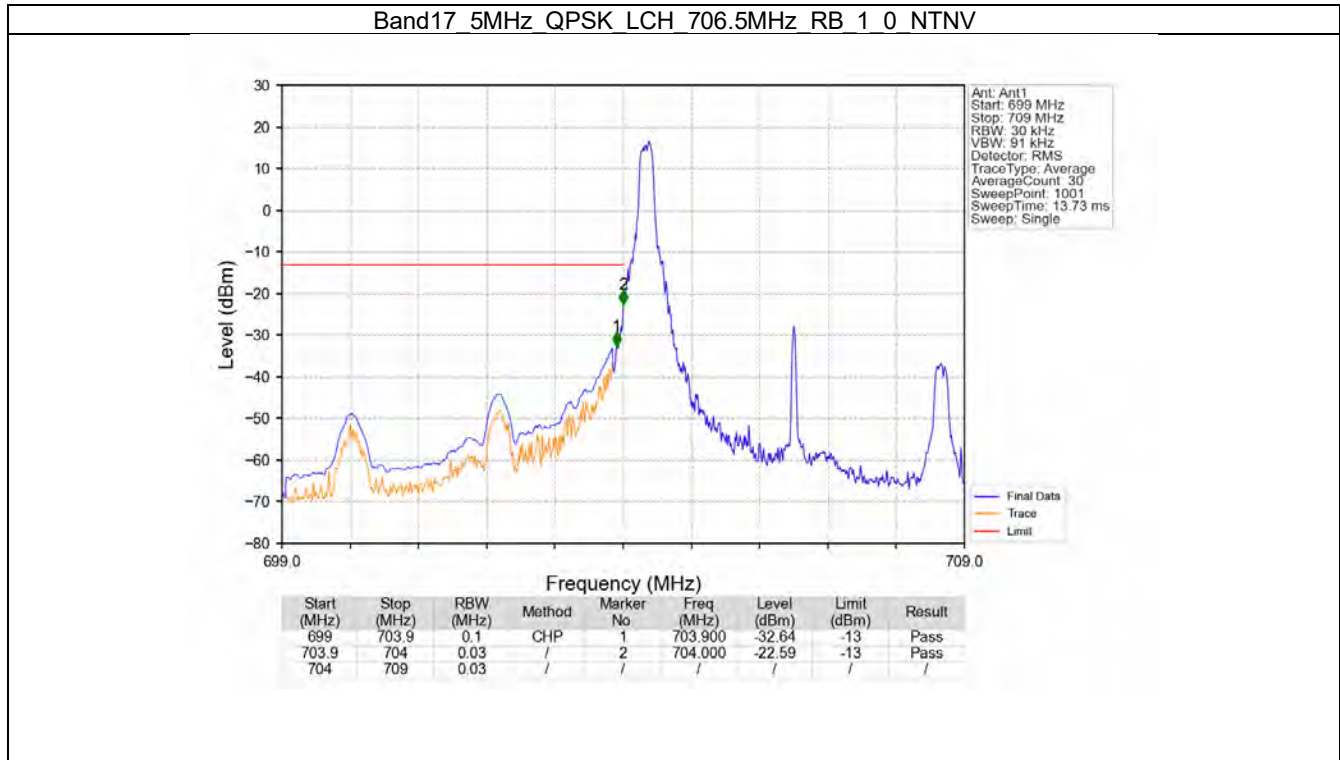
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5.1.2 Test Graph



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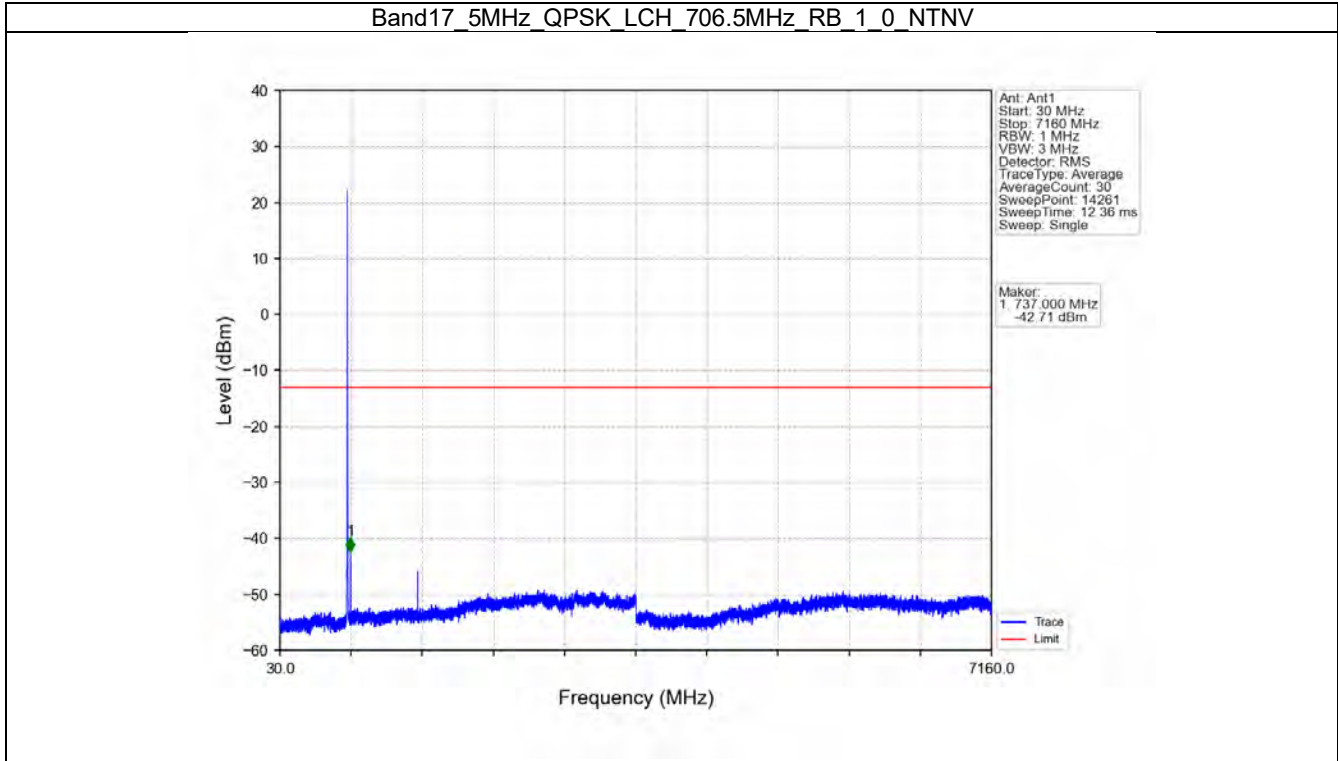


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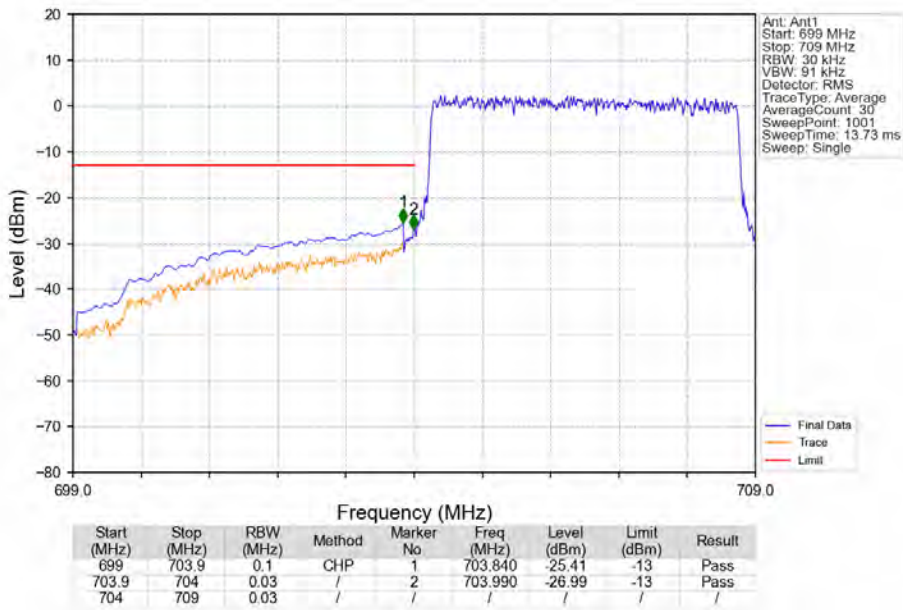
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Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTV



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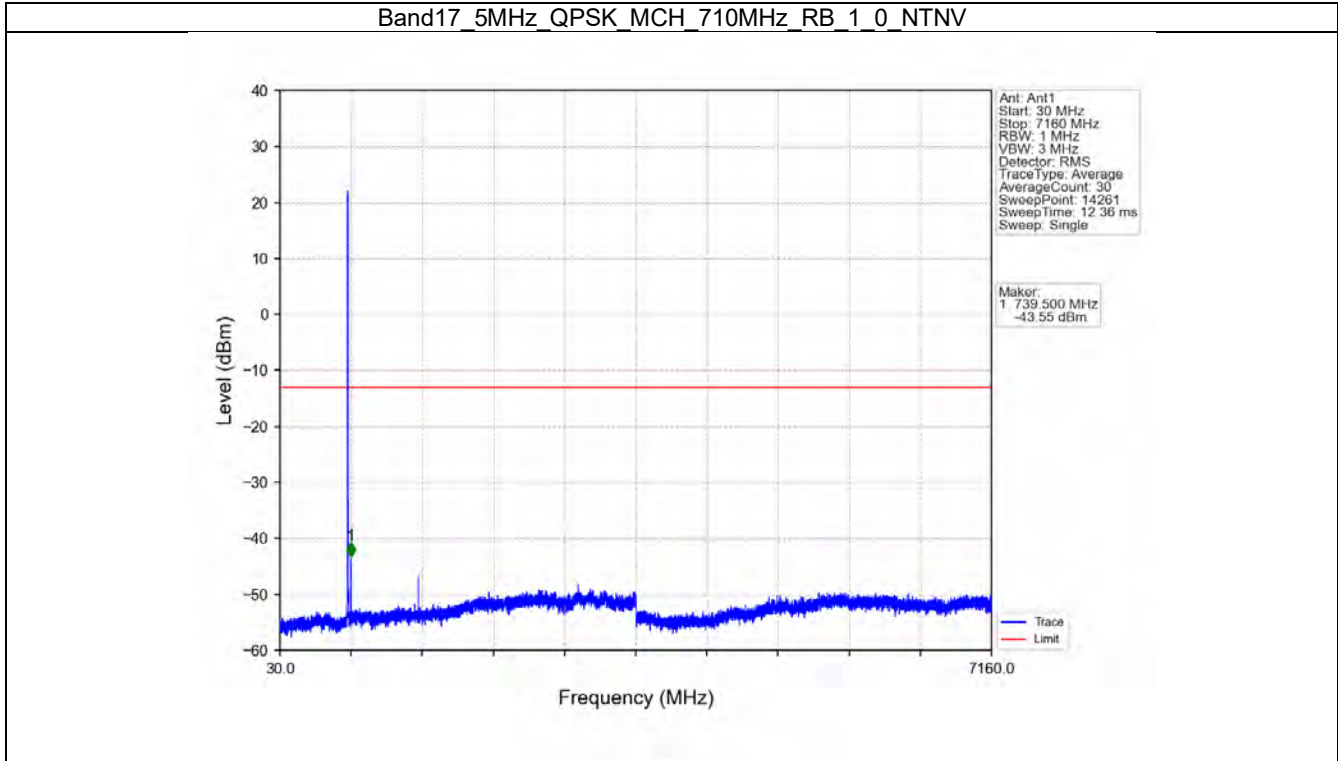


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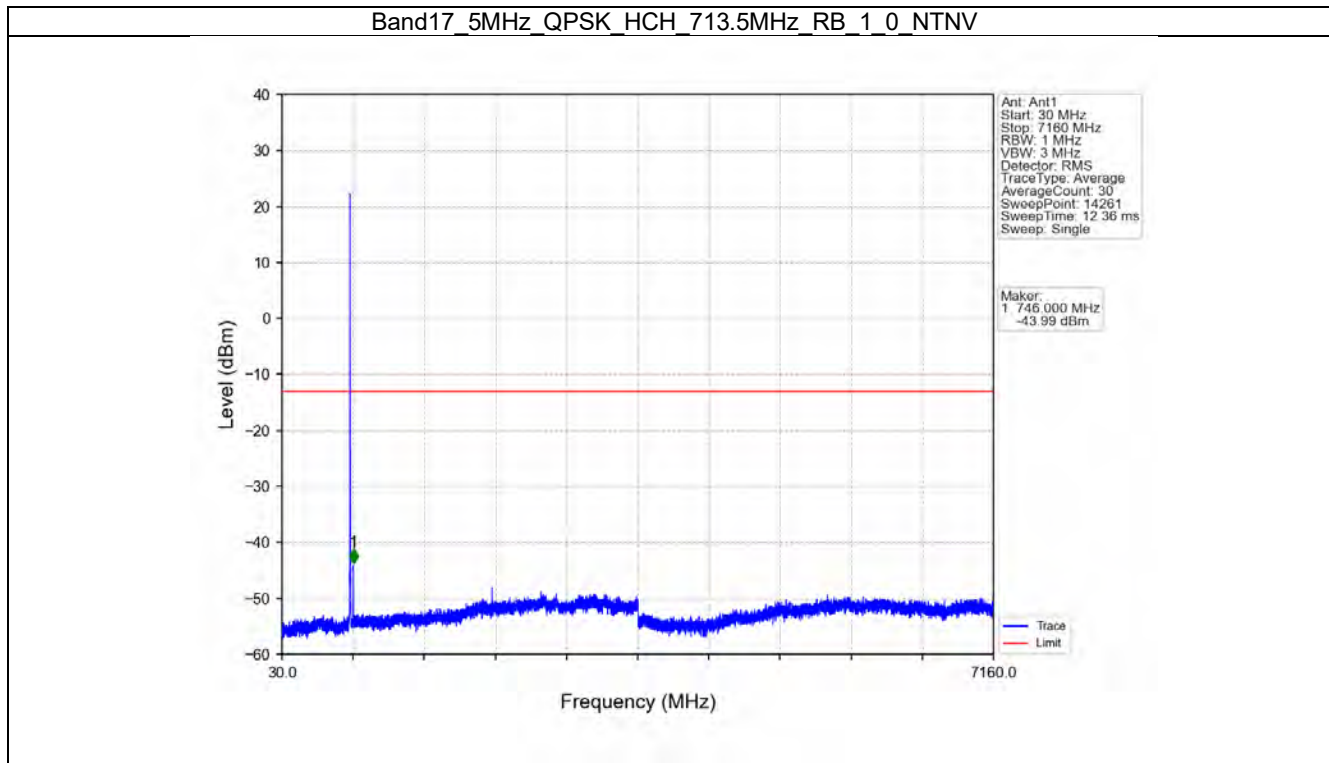
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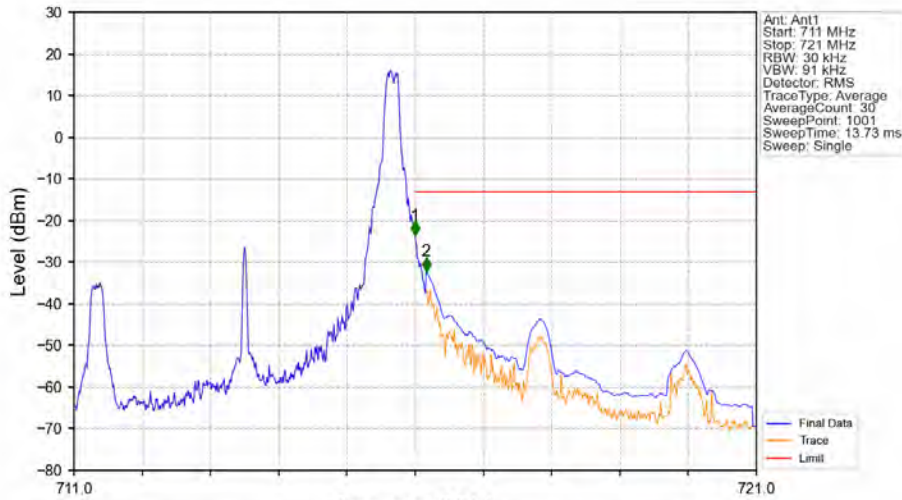
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Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-23.63	-13	Pass
716.1	721	0.1	CHP	2	716.160	-32.21	-13	Pass



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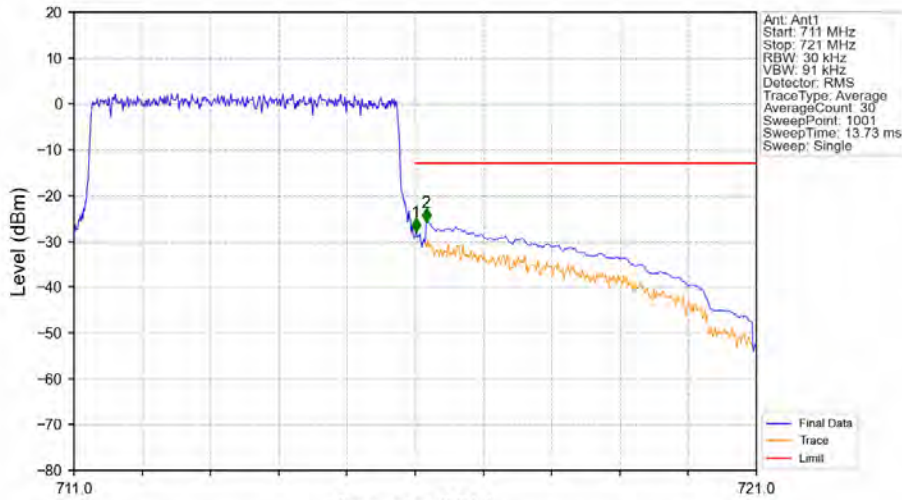
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Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.010	-28.01	-13	Pass
716.1	721	0.1	CHP	2	716.160	-25.80	-13	Pass



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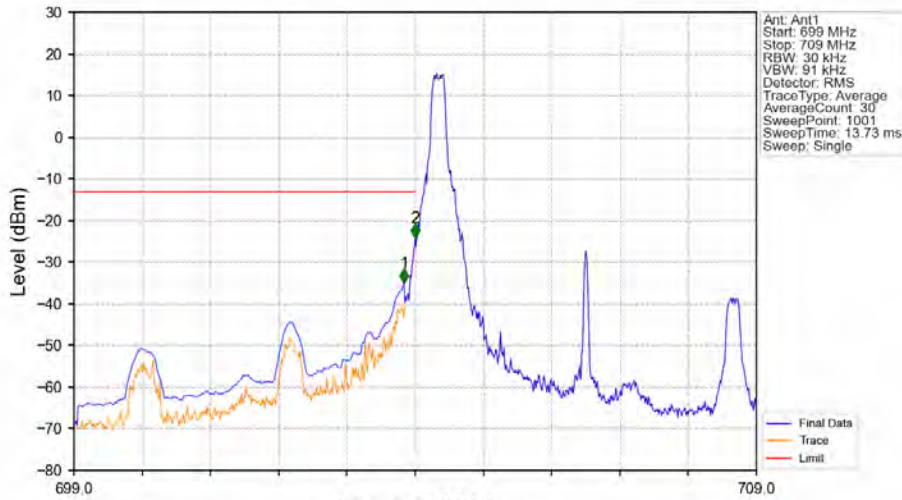
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Band17_5MHz_16QAM_LCH_706.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-35.01	-13	Pass
703.9	704	0.03	/	2	704.000	-24.18	-13	Pass
704	709	0.03	/	/	/	/	/	/



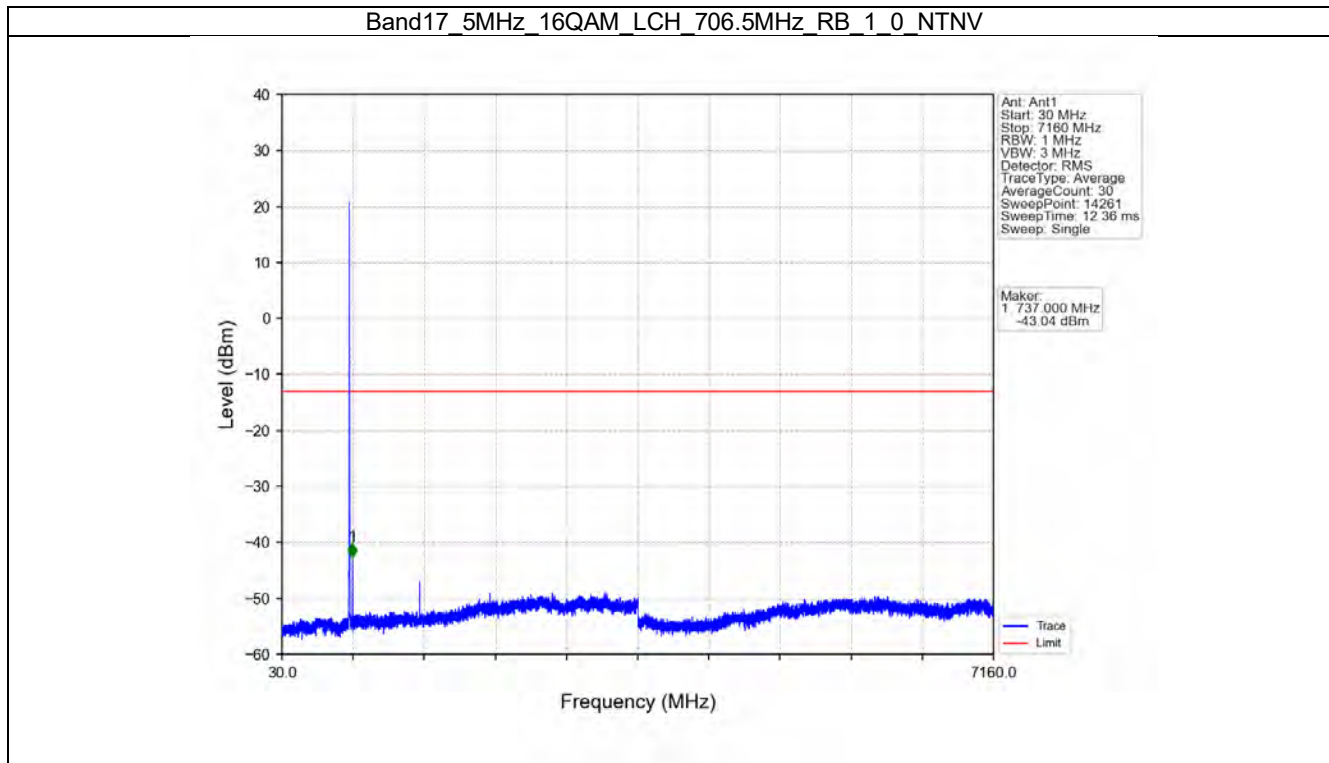
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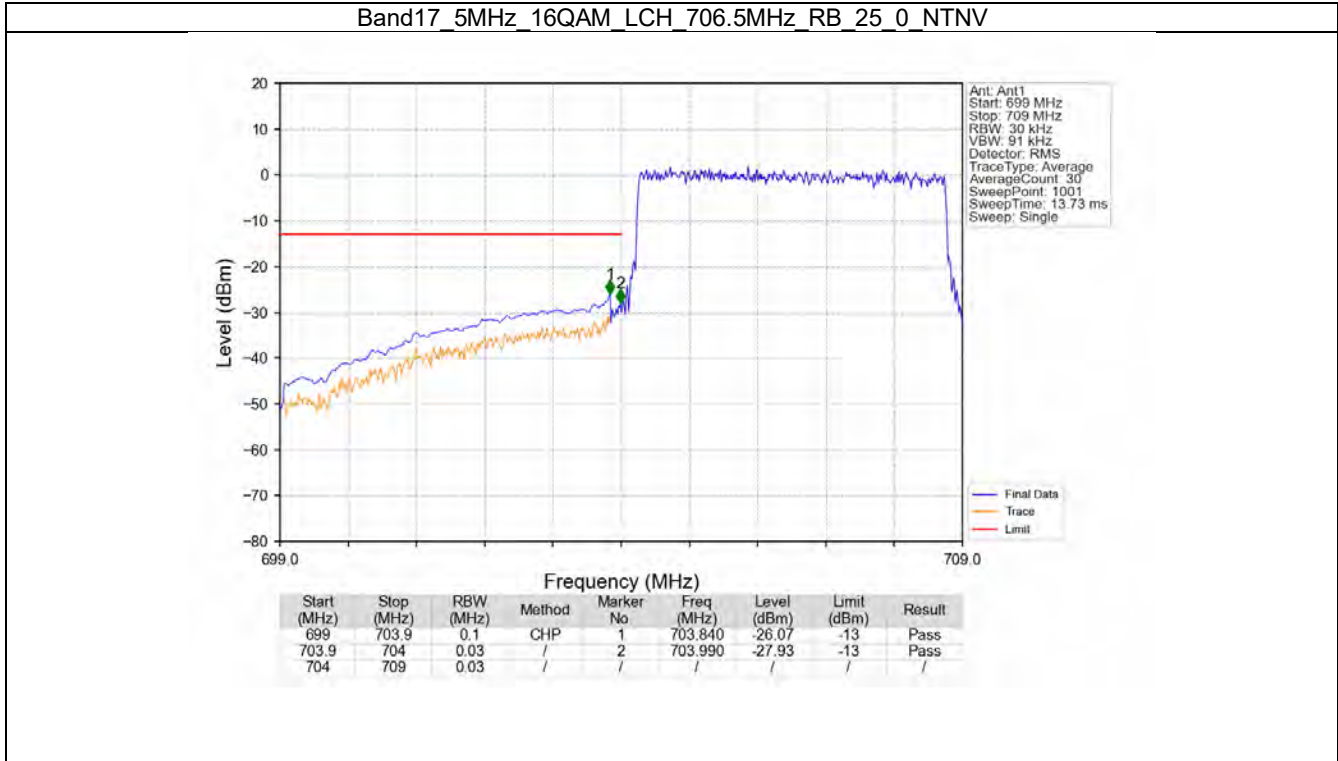


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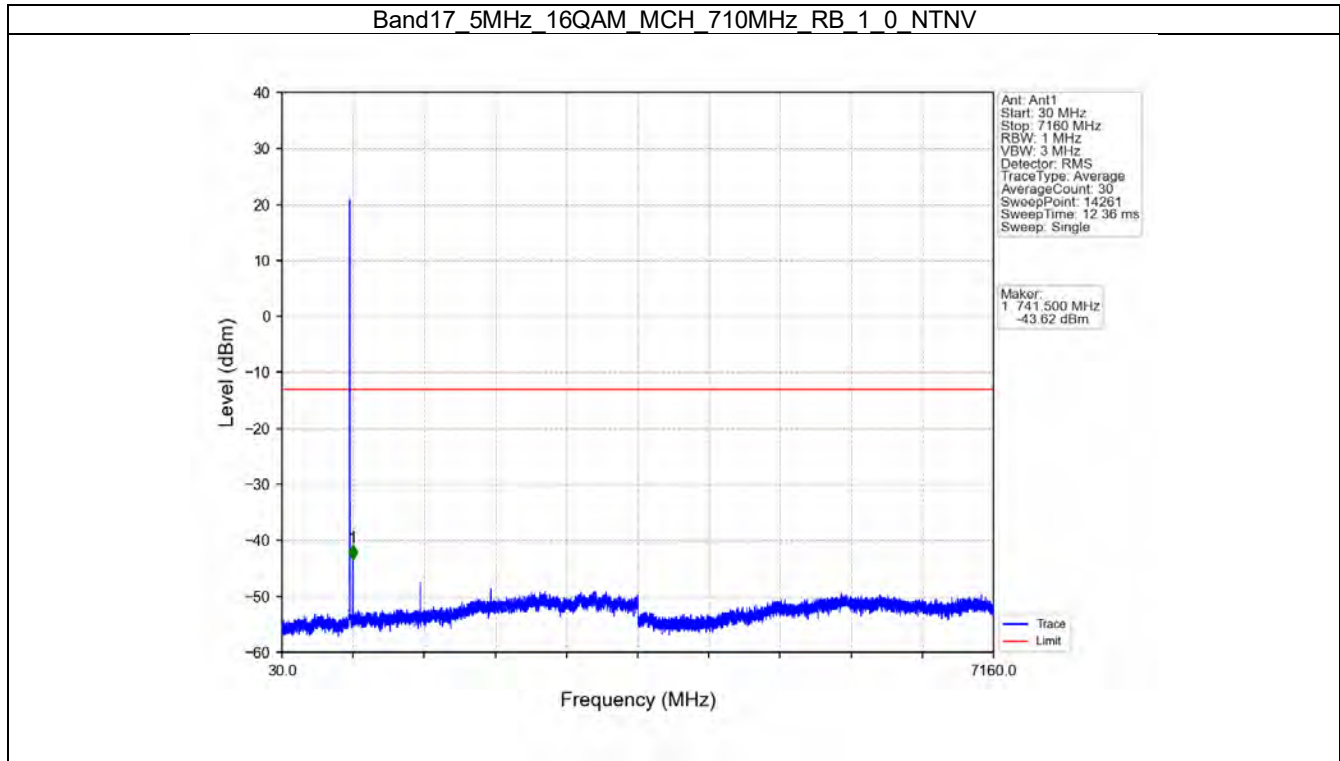


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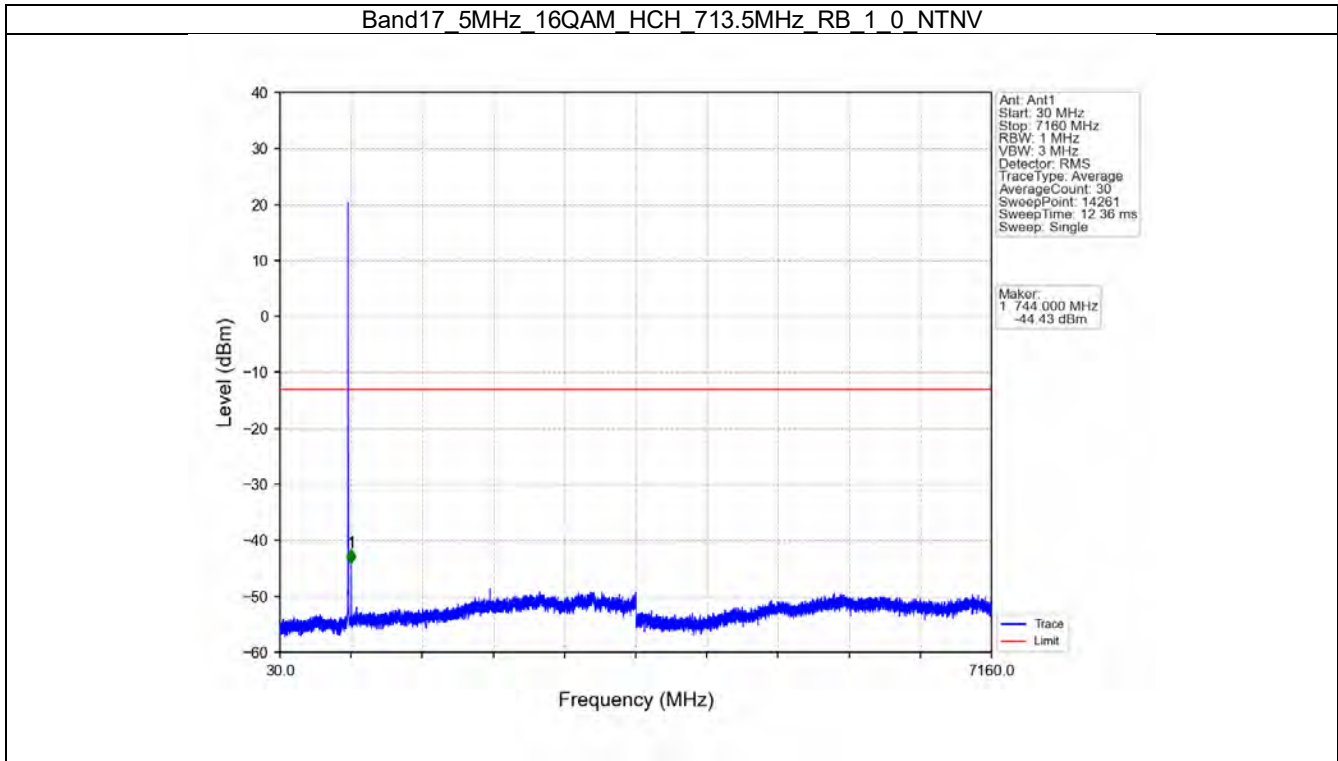


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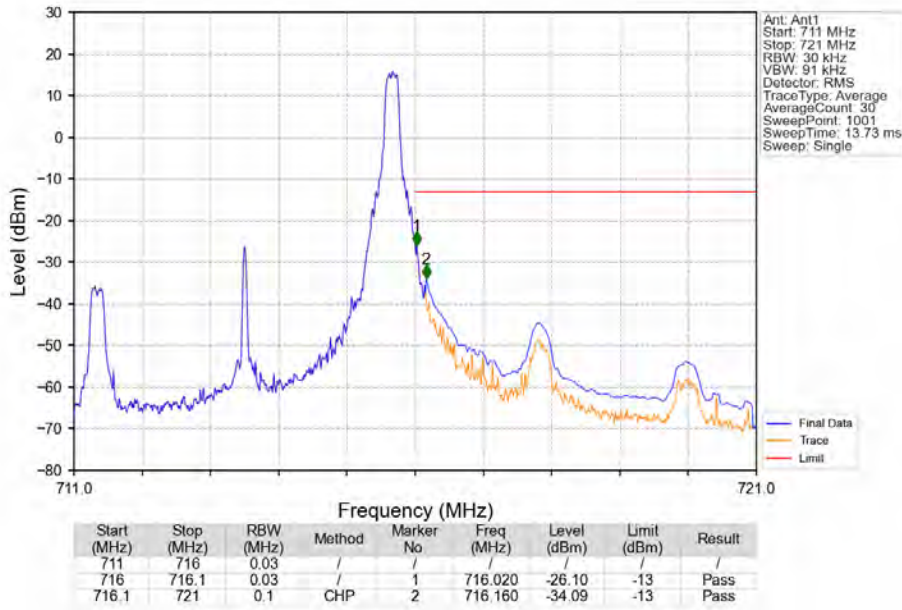
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Band17_5MHz_16QAM_HCH_713.5MHz_RB_1_24_NTNV



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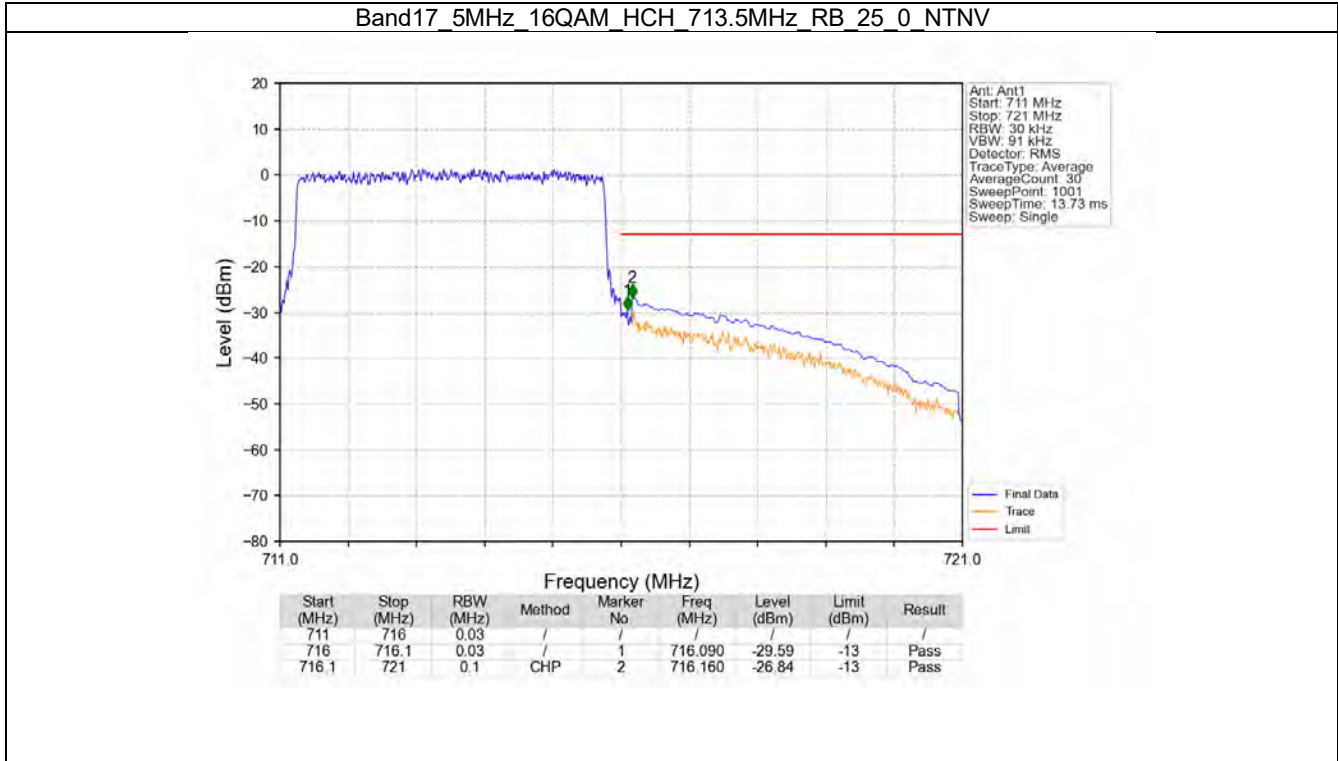


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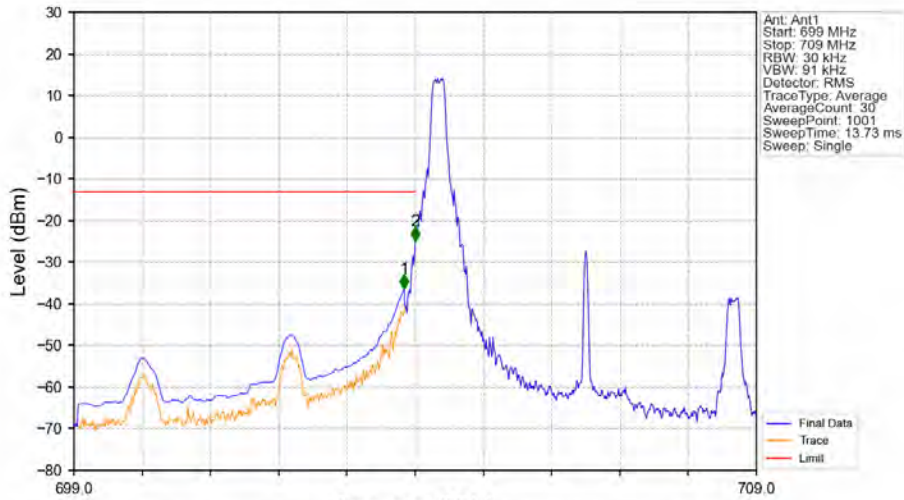
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Band17_5MHz_64QAM_LCH_706.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-36.44	-13	Pass
703.9	704	0.03	/	2	704.000	-24.98	-13	Pass
704	709	0.03	/	/	/	/	/	/



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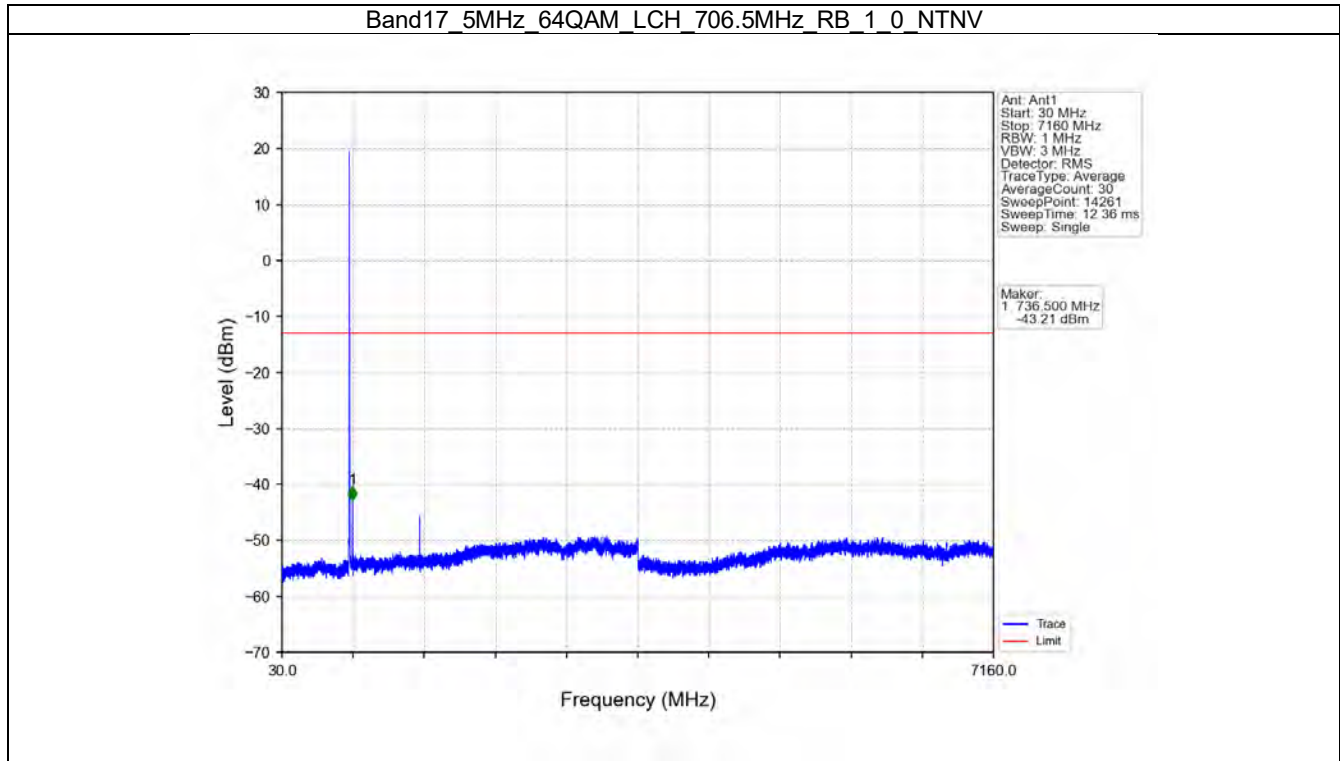


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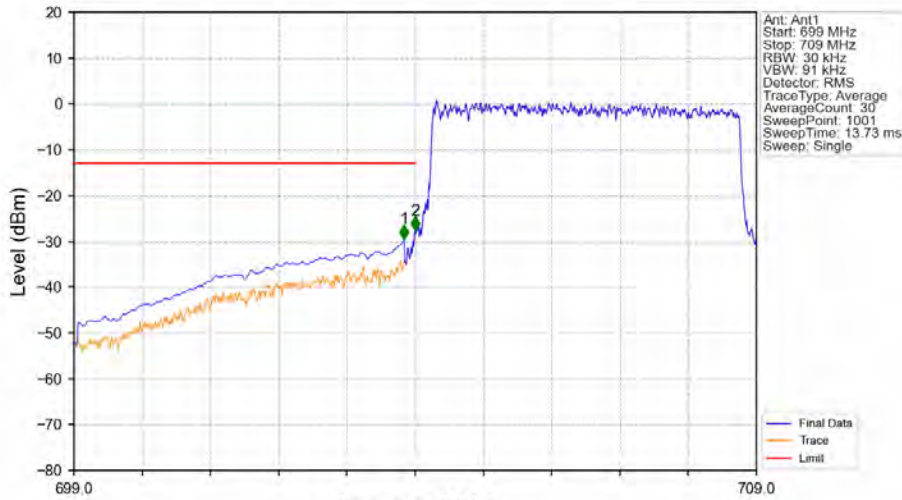
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Band17_5MHz_64QAM_LCH_706.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-29.50	-13	Pass
703.9	704	0.03	/	2	704.000	-27.62	-13	Pass
704	709	0.03	/	/	/	/	/	/



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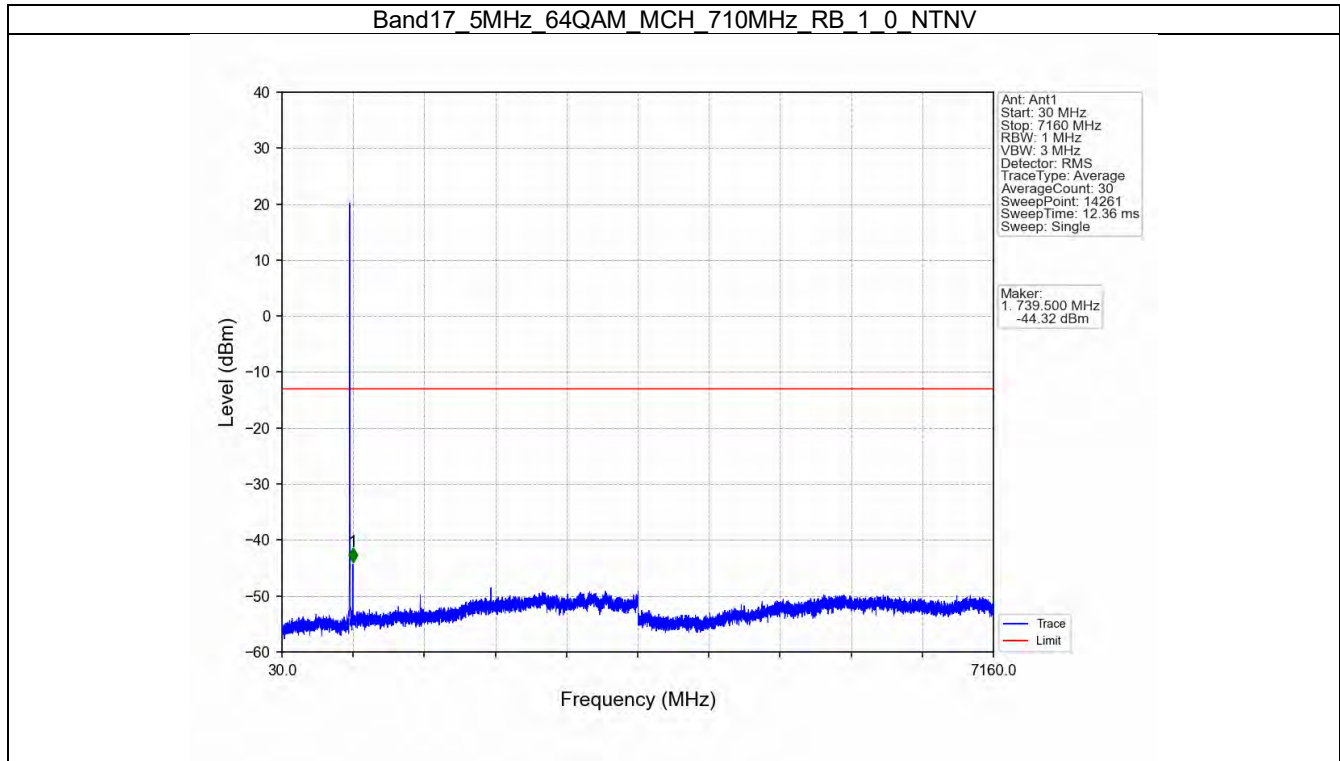


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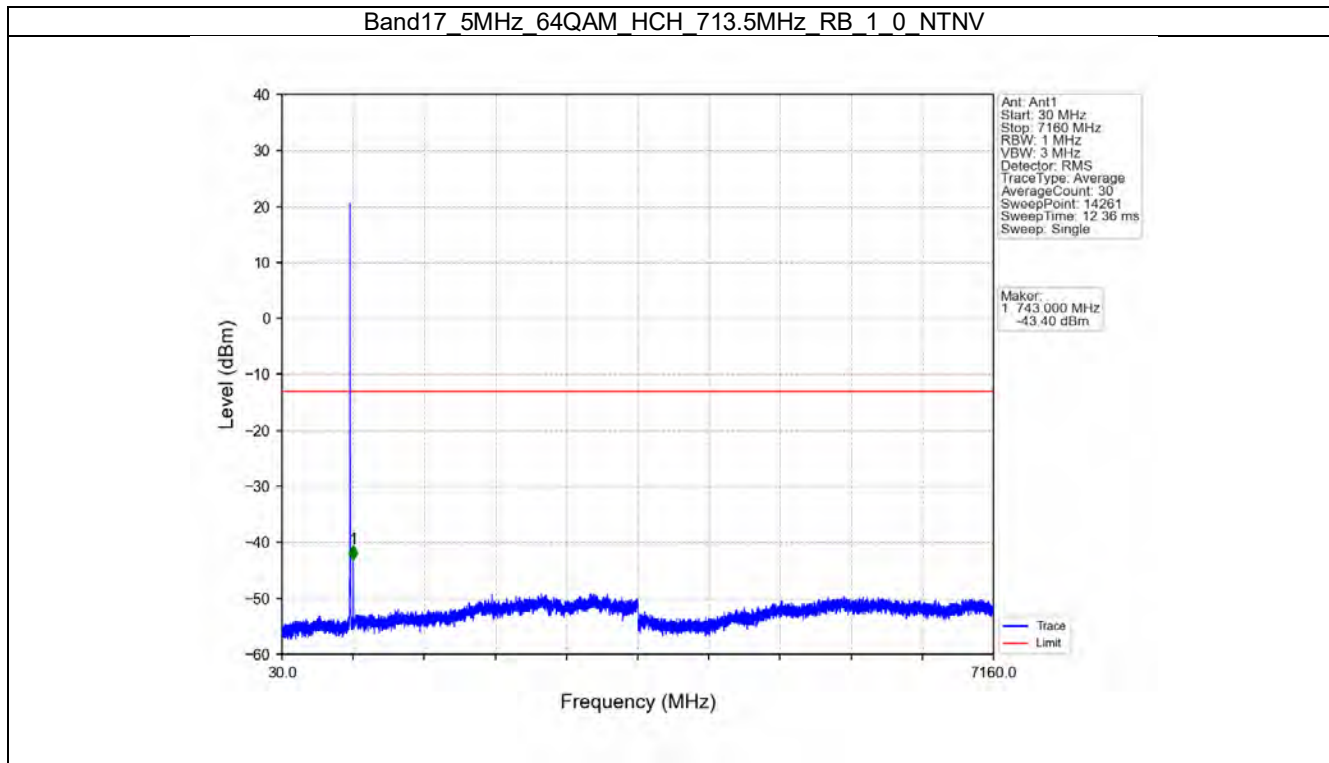
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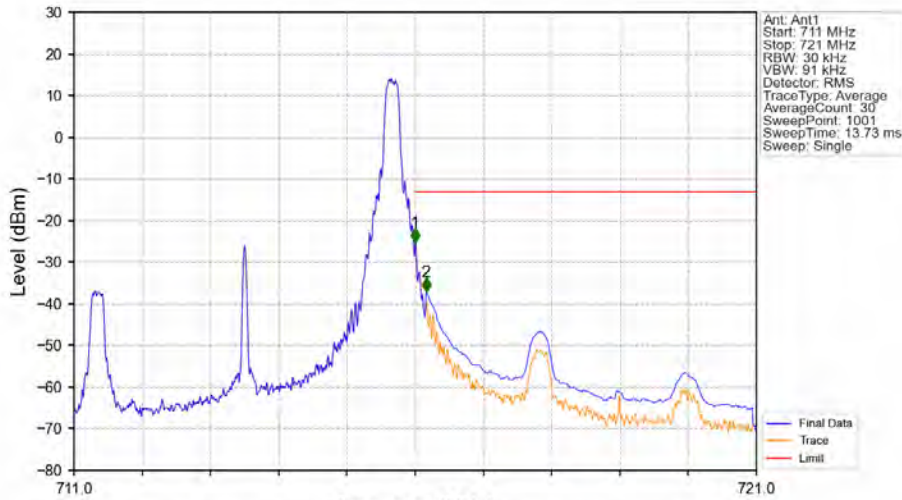
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Band17_5MHz_64QAM_HCH_713.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-25.35	-13	Pass
716.1	721	0.1	CHP	2	716.160	-37.10	-13	Pass



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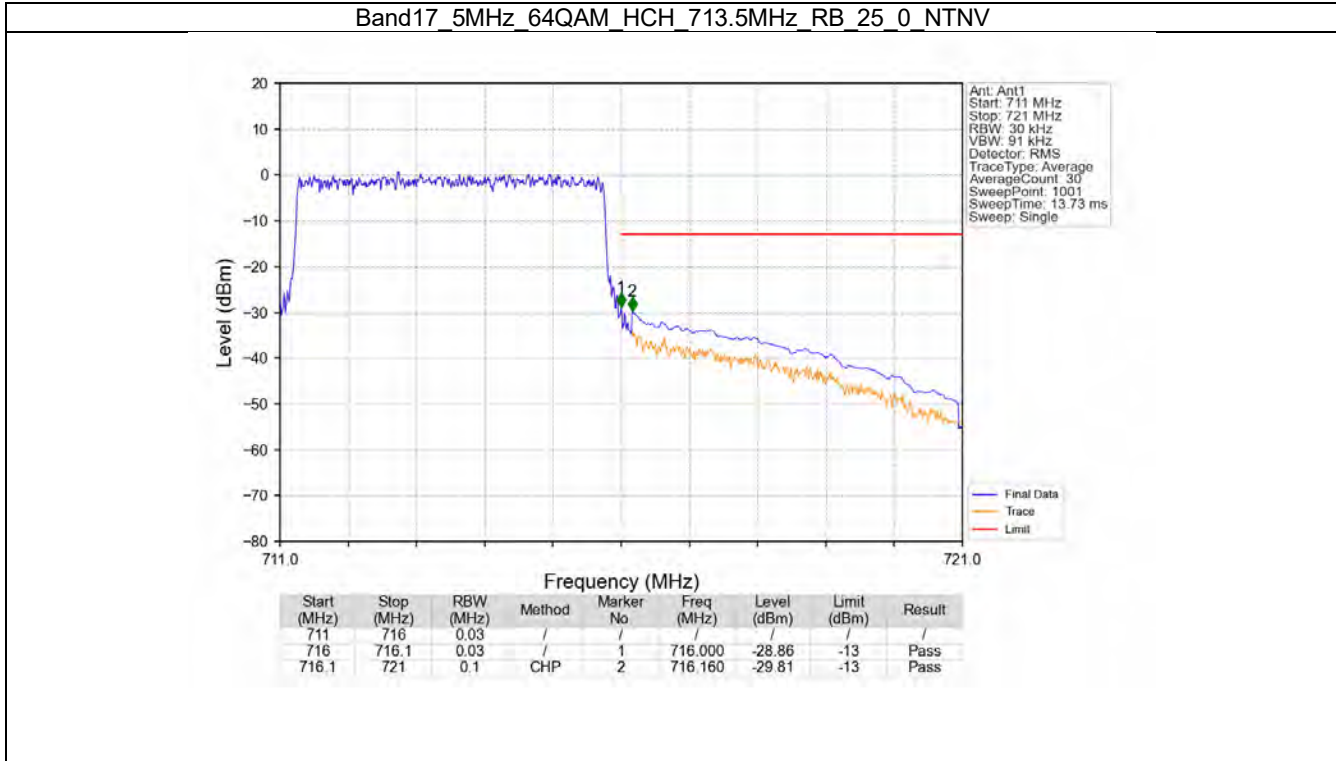


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5.2 B17_10MHz

5.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	709	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
	711	1	0	Refer To Test Graph	Pass	
			49	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
16QAM	709	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
	711	1	0	Refer To Test Graph	Pass	
			49	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
64QAM	709	1	0	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	
	711	1	0	Refer To Test Graph	Pass	
			49	Refer To Test Graph	Pass	
		50	0	Refer To Test Graph	Pass	



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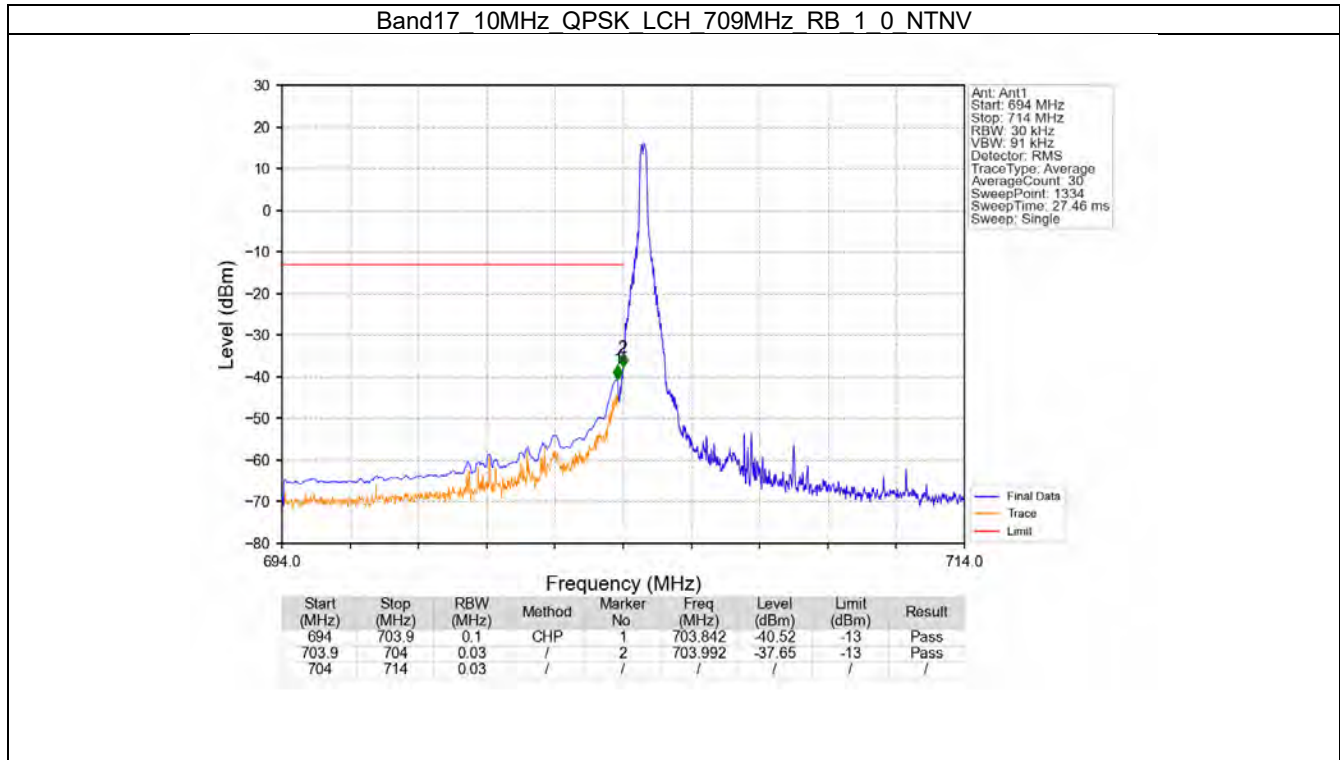
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5.2.2 Test Graph



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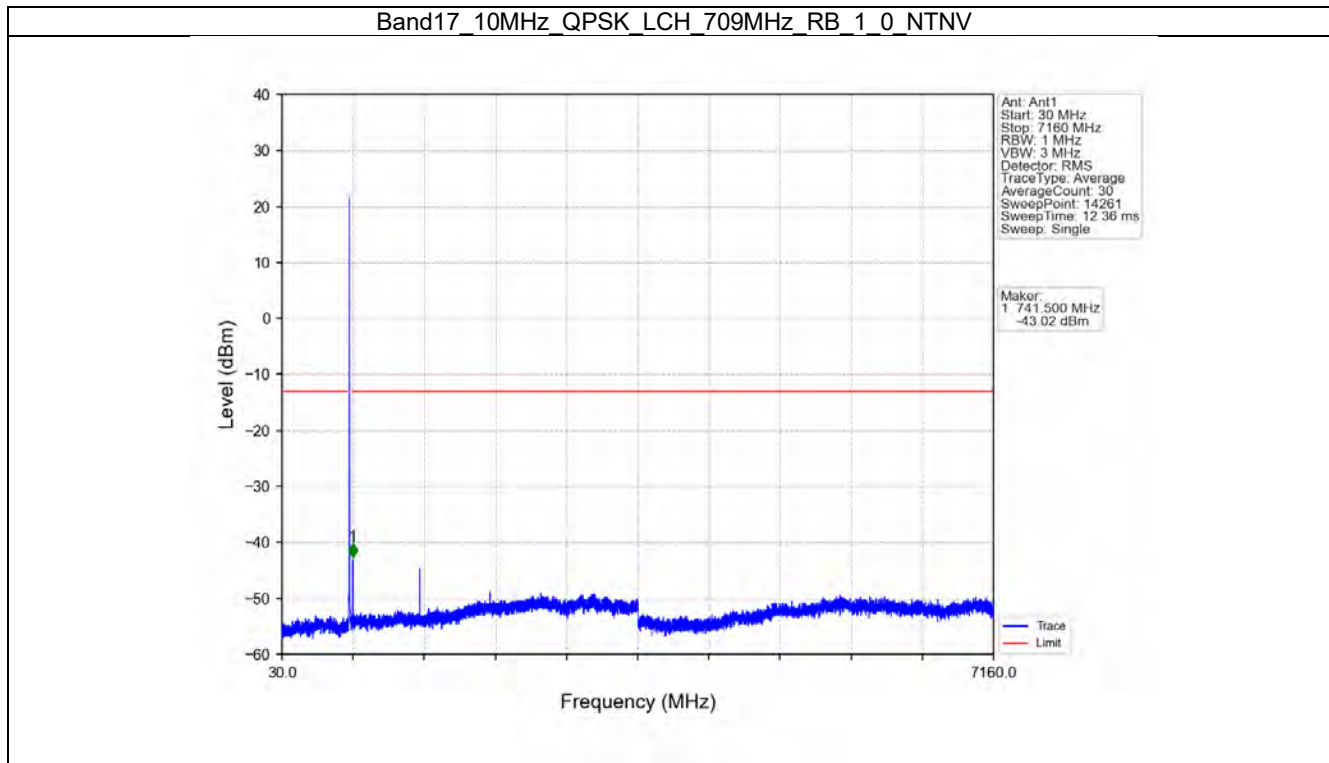
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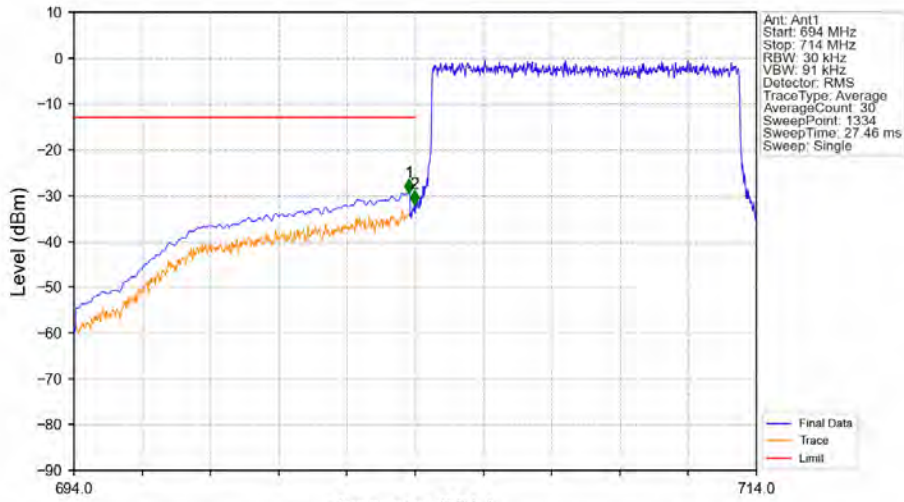
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Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.812	-29.42	-13	Pass
703.9	704	0.03	/	2	703.977	-31.89	-13	Pass
704	714	0.03	/	/	/	/	/	/



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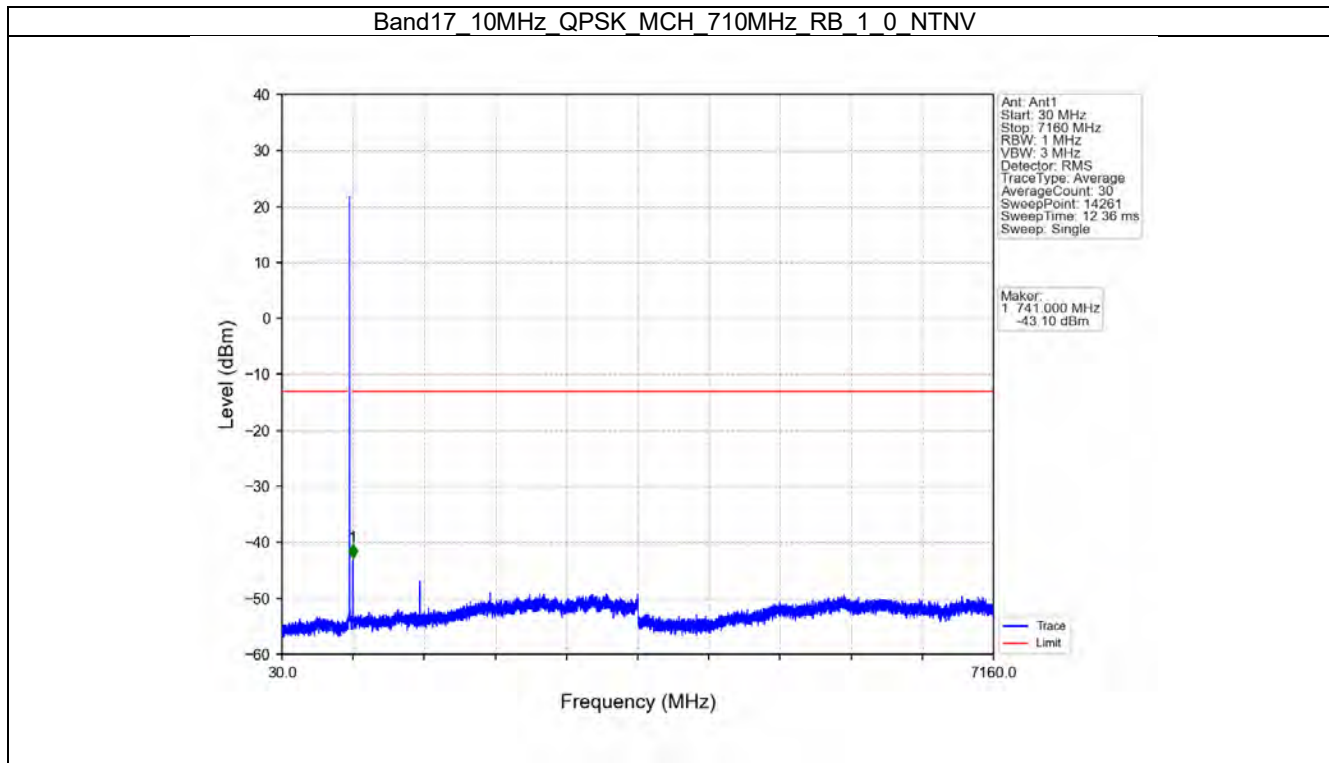
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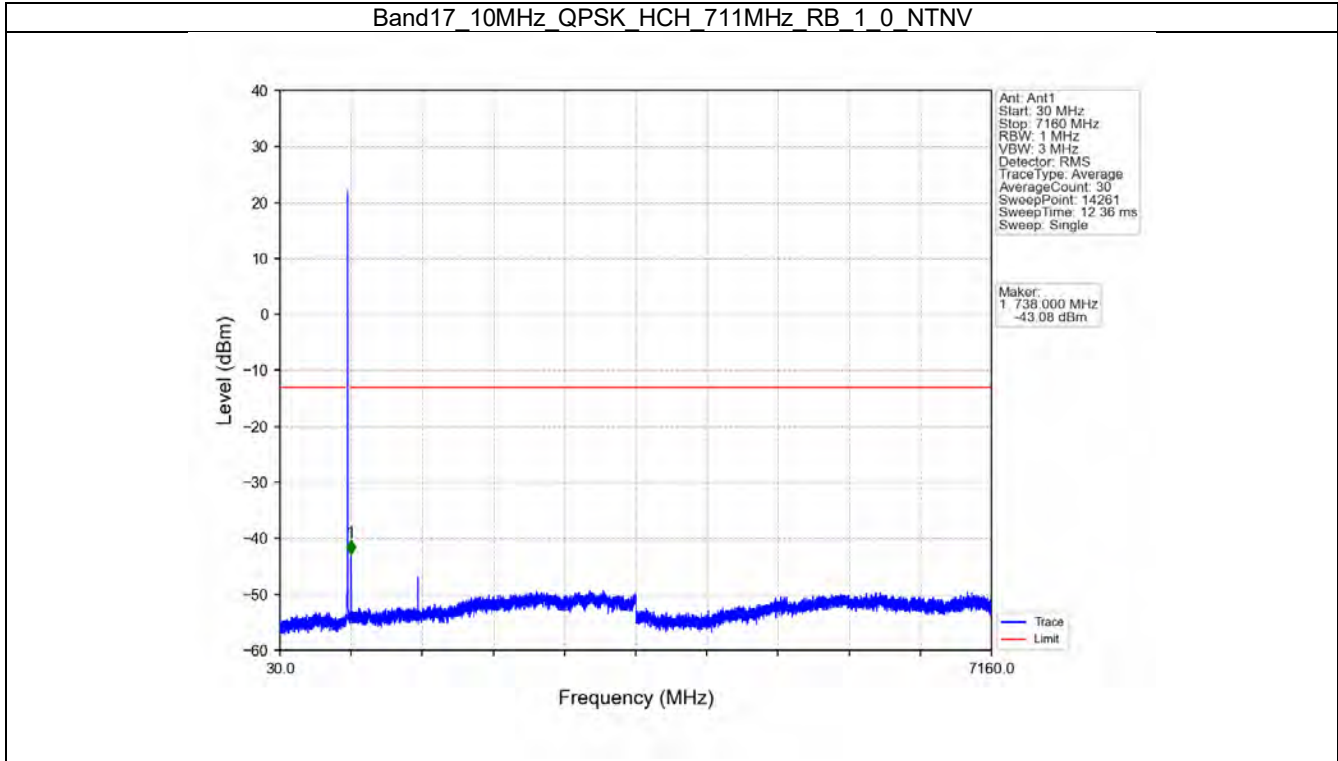


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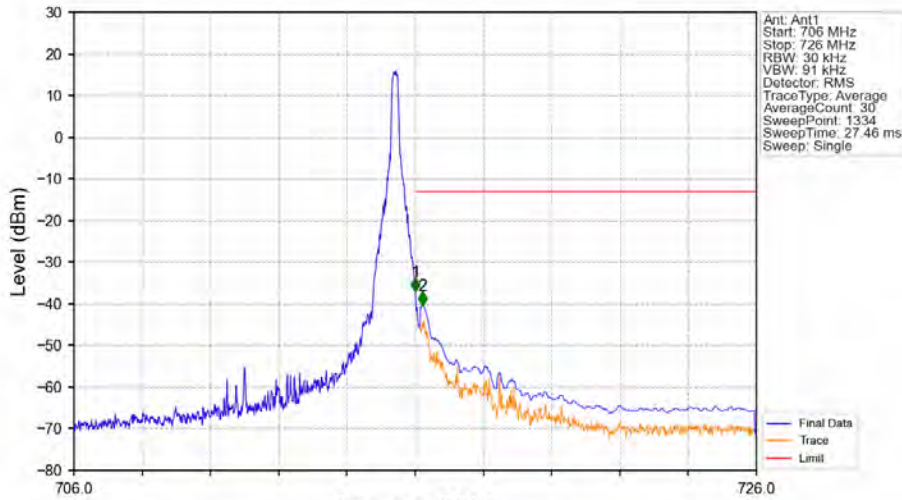
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Band17_10MHz_QPSK_HCH_711MHz_RB_1_49_NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-37.08	-13	Pass
716.1	726	0.1	CHP	2	716.218	-40.45	-13	Pass



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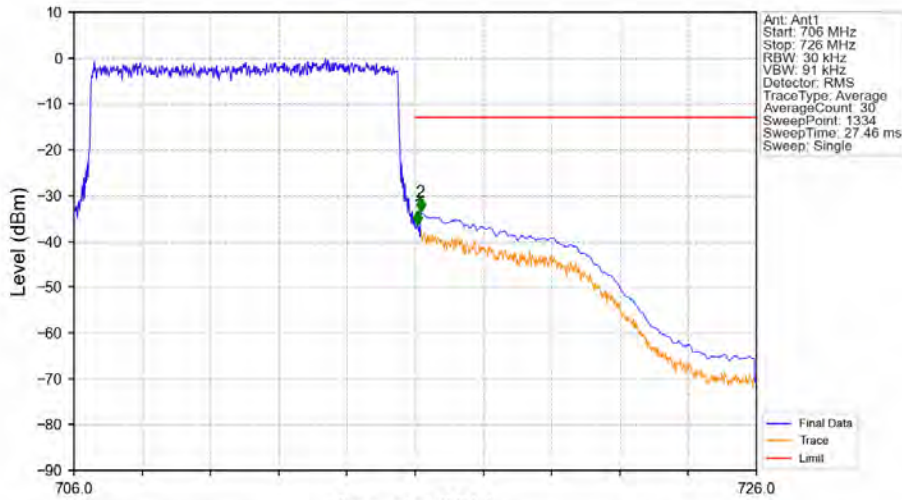
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Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.083	-36.29	-13	Pass
716.1	726	0.1	CHP	2	716.158	-33.56	-13	Pass



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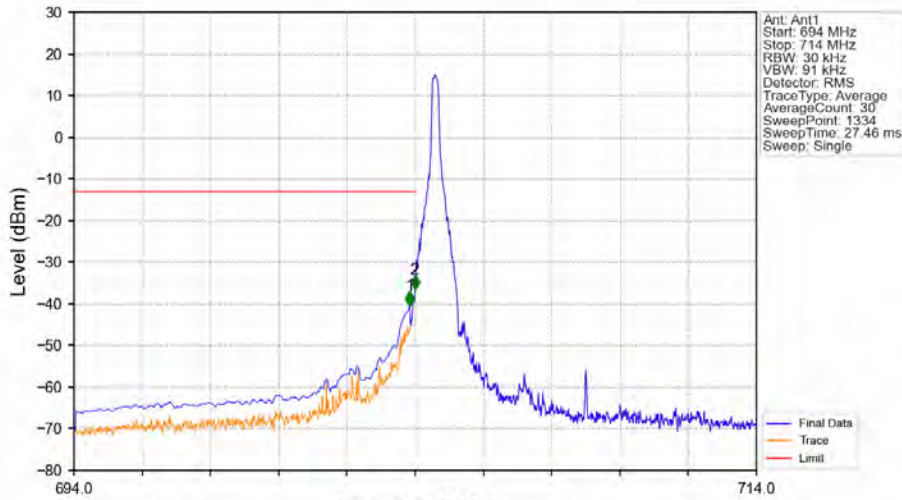
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Band17_10MHz_16QAM_LCH_709MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-40.47	-13	Pass
703.9	704	0.03	/	2	703.992	-36.58	-13	Pass
704	714	0.03	/	/	/	/	/	/



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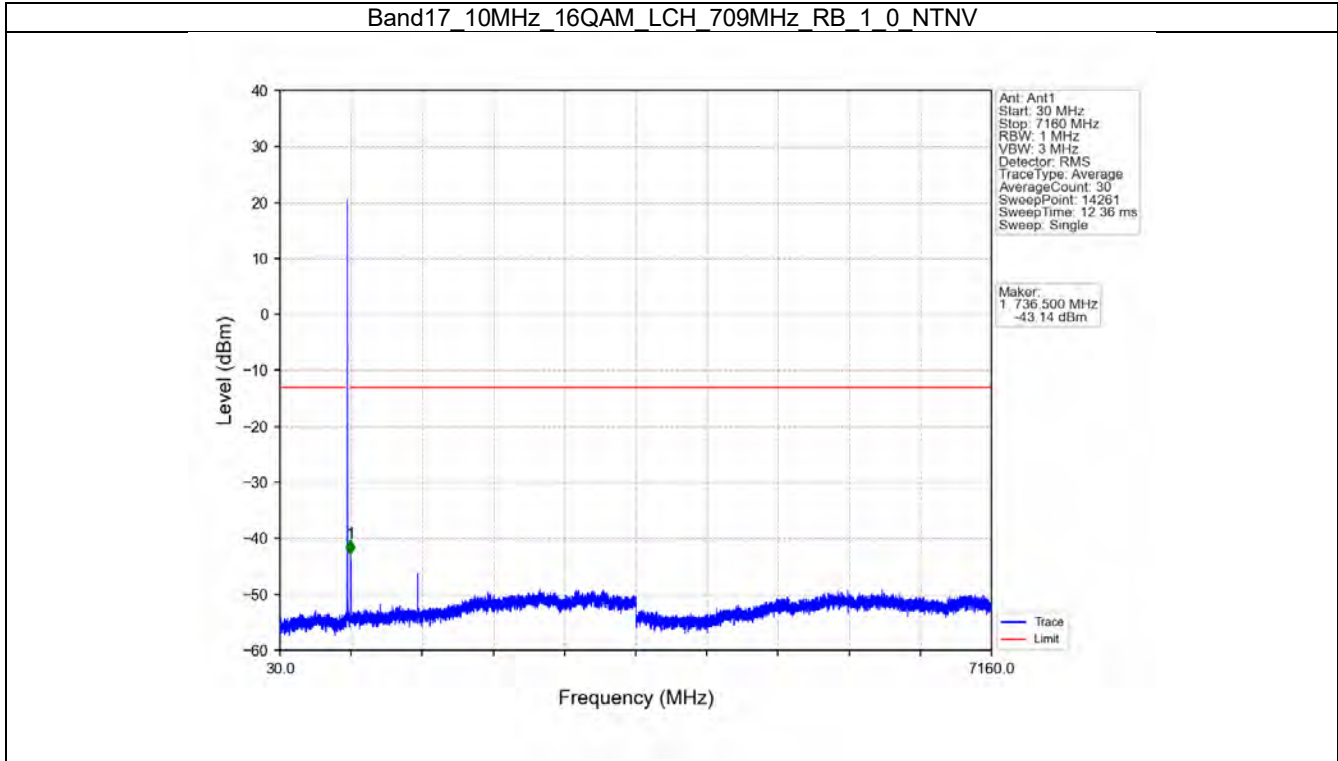


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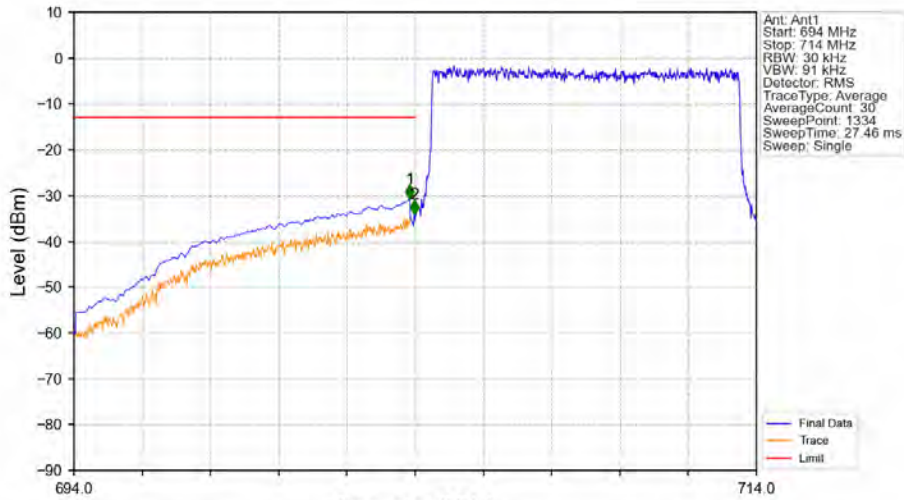
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Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-30.81	-13	Pass
703.9	704	0.03	/	2	703.977	-34.07	-13	Pass
704	714	0.03	/	/	/	/	/	/



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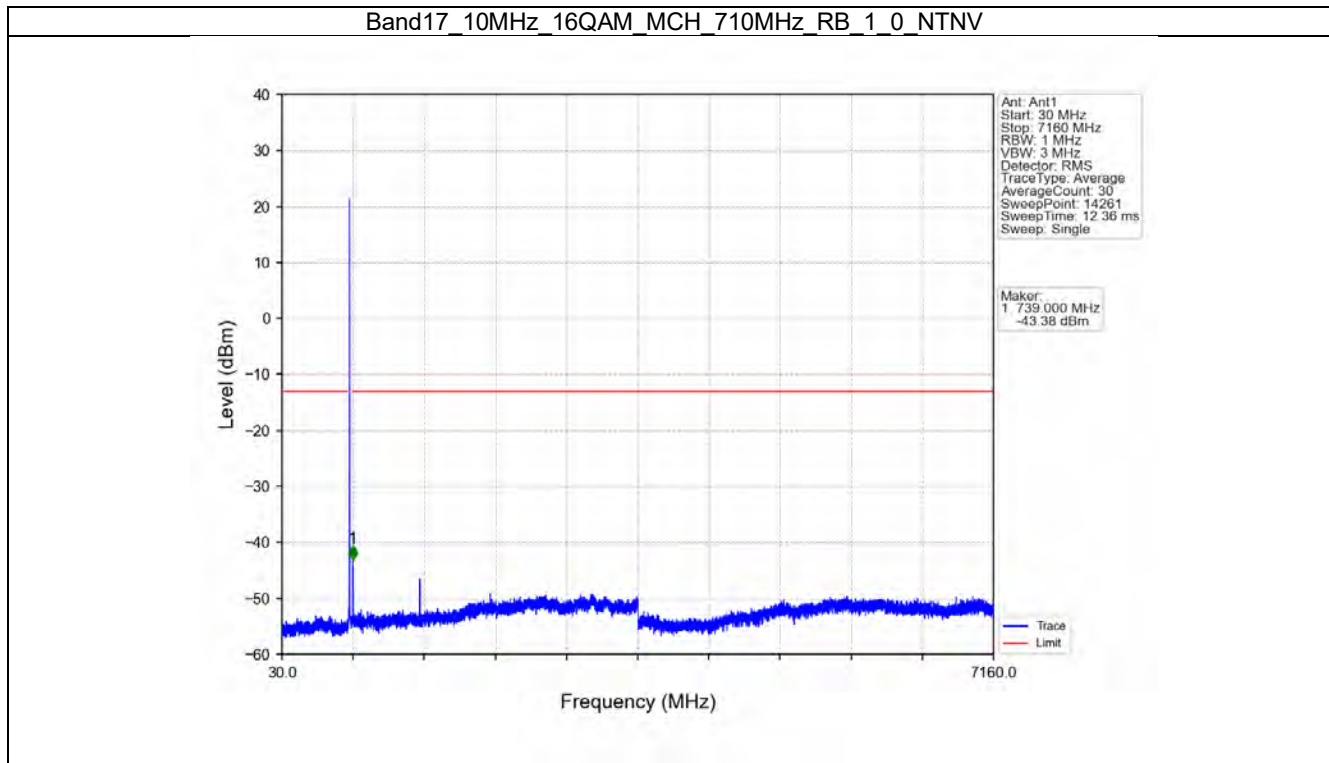
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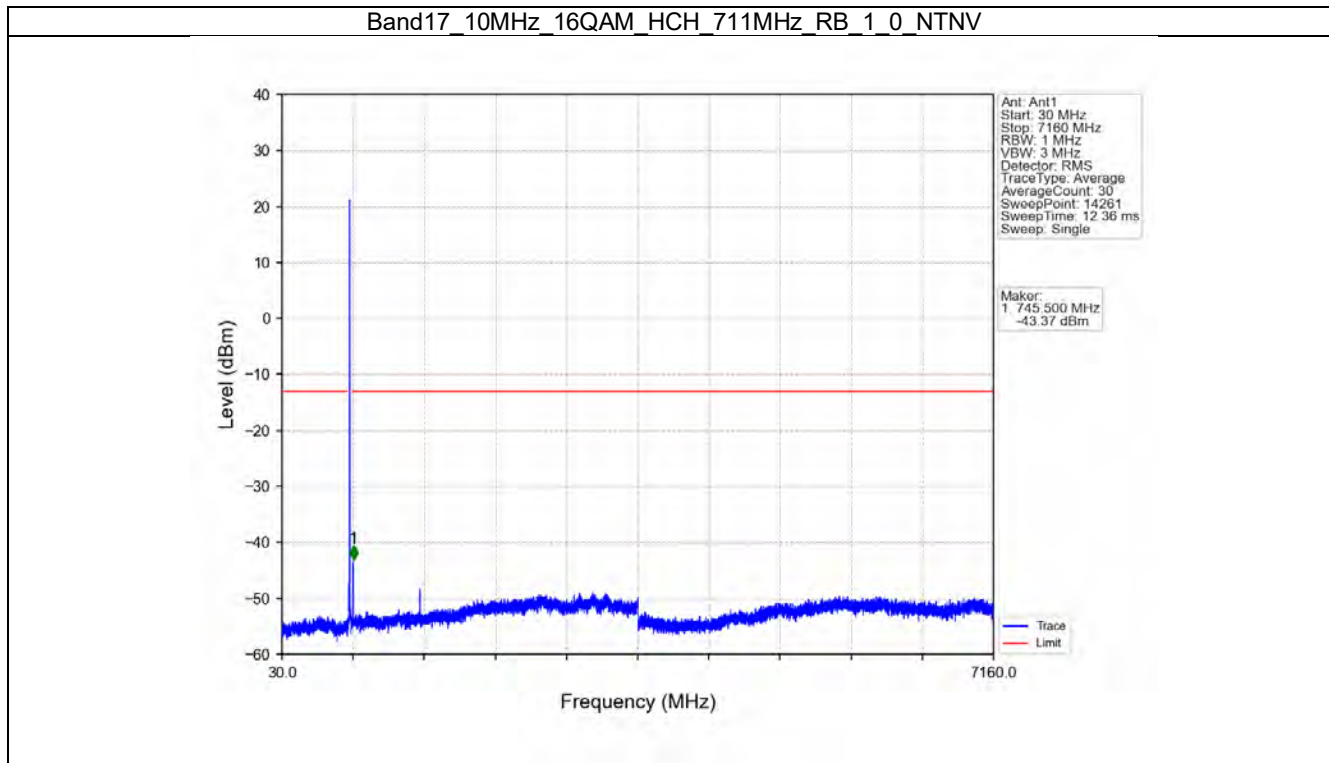
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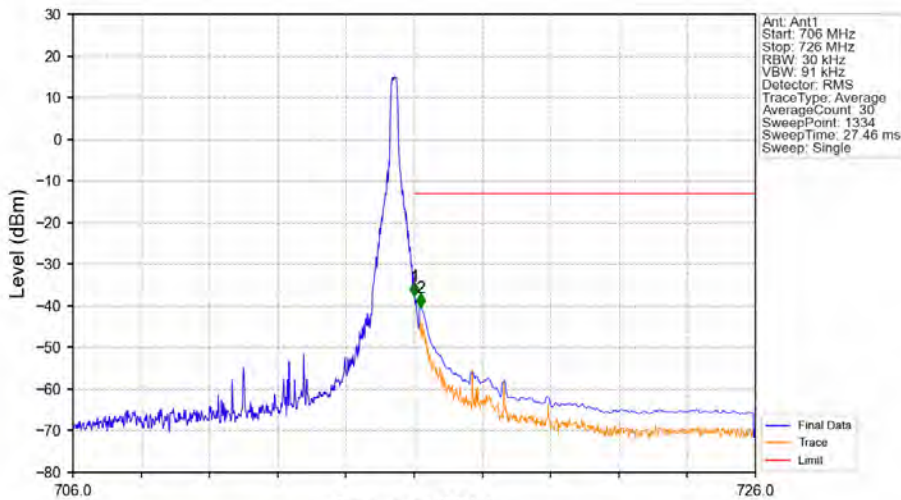
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Band17_10MHz_16QAM_HCH_711MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-37.65	-13	Pass
716.1	726	0.1	CHP	2	716.188	-40.40	-13	Pass



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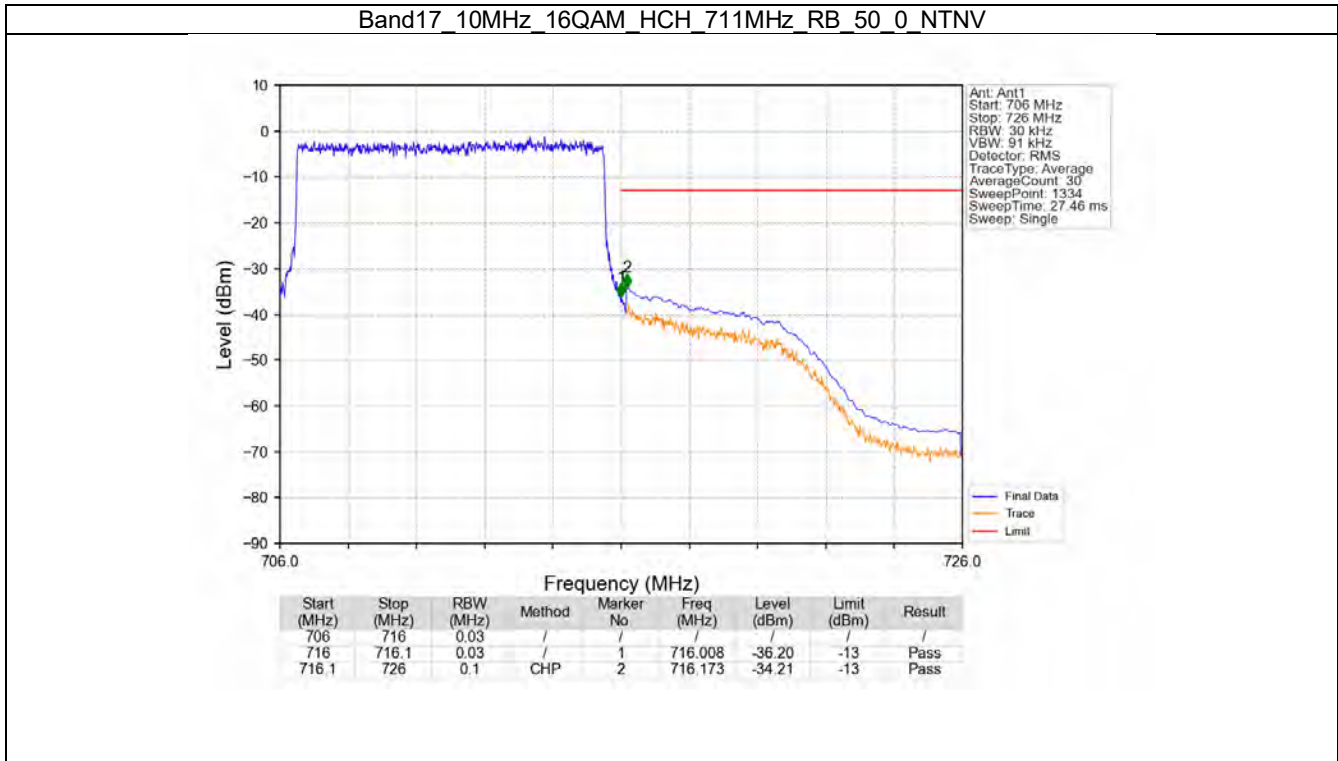


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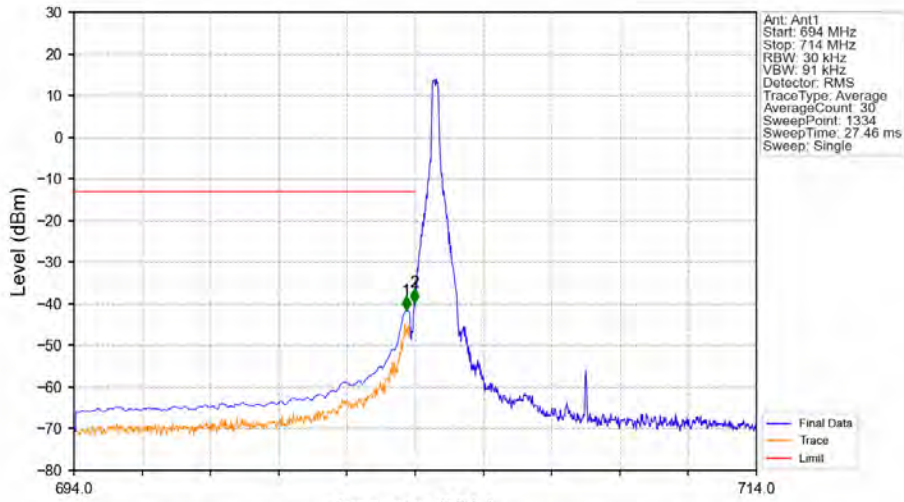
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Band17_10MHz_64QAM_LCH_709MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.737	-41.55	-13	Pass
703.9	704	0.03	/	2	703.977	-39.75	-13	Pass
704	714	0.03	/	/	/	/	/	/



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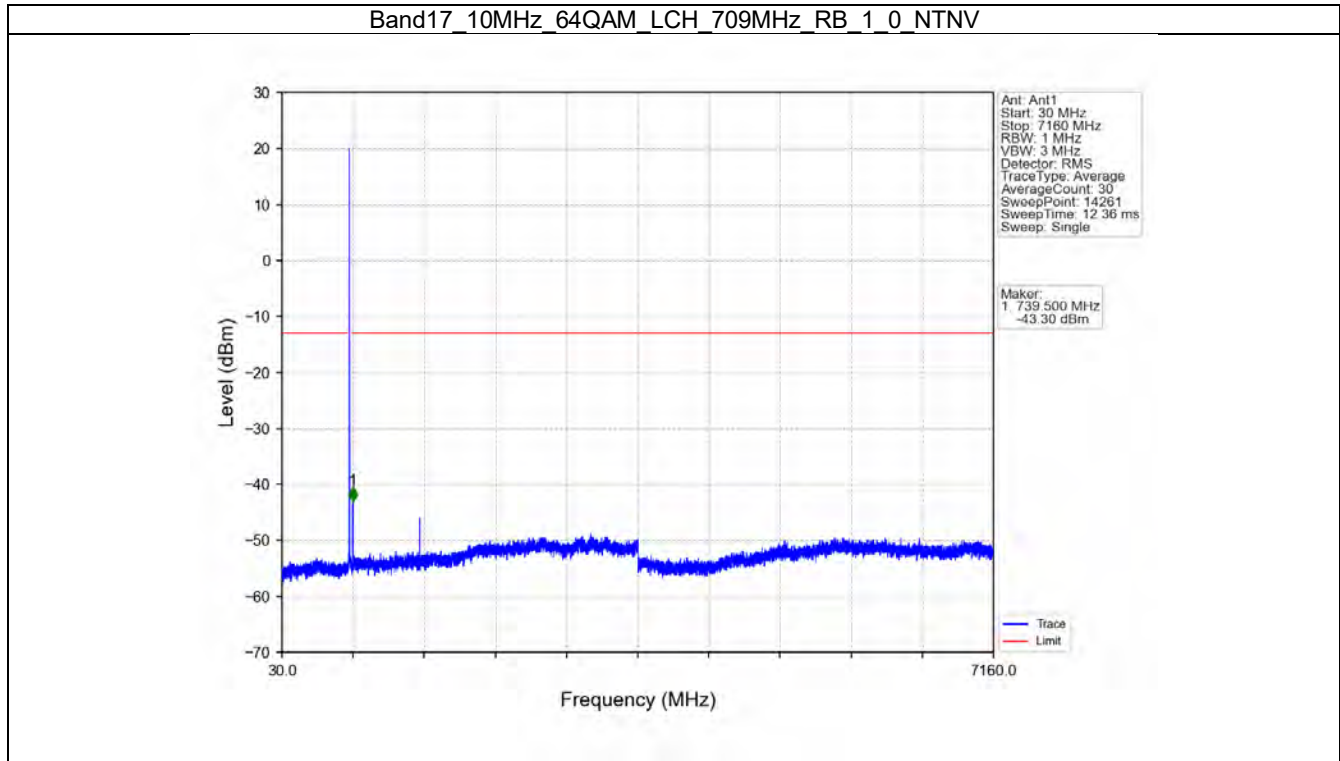


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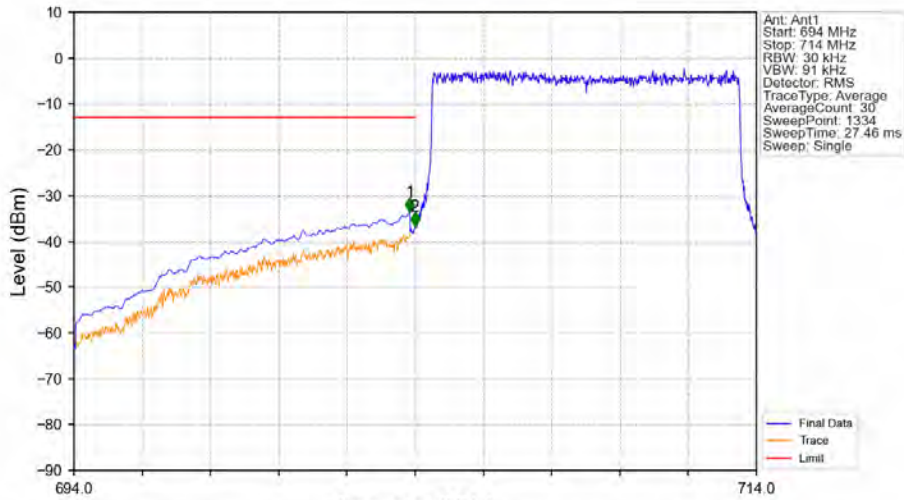
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Band17_10MHz_64QAM_LCH_709MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.842	-33.51	-13	Pass
703.9	704	0.03	/	2	703.992	-36.76	-13	Pass
704	714	0.03	/	/	/	/	/	/



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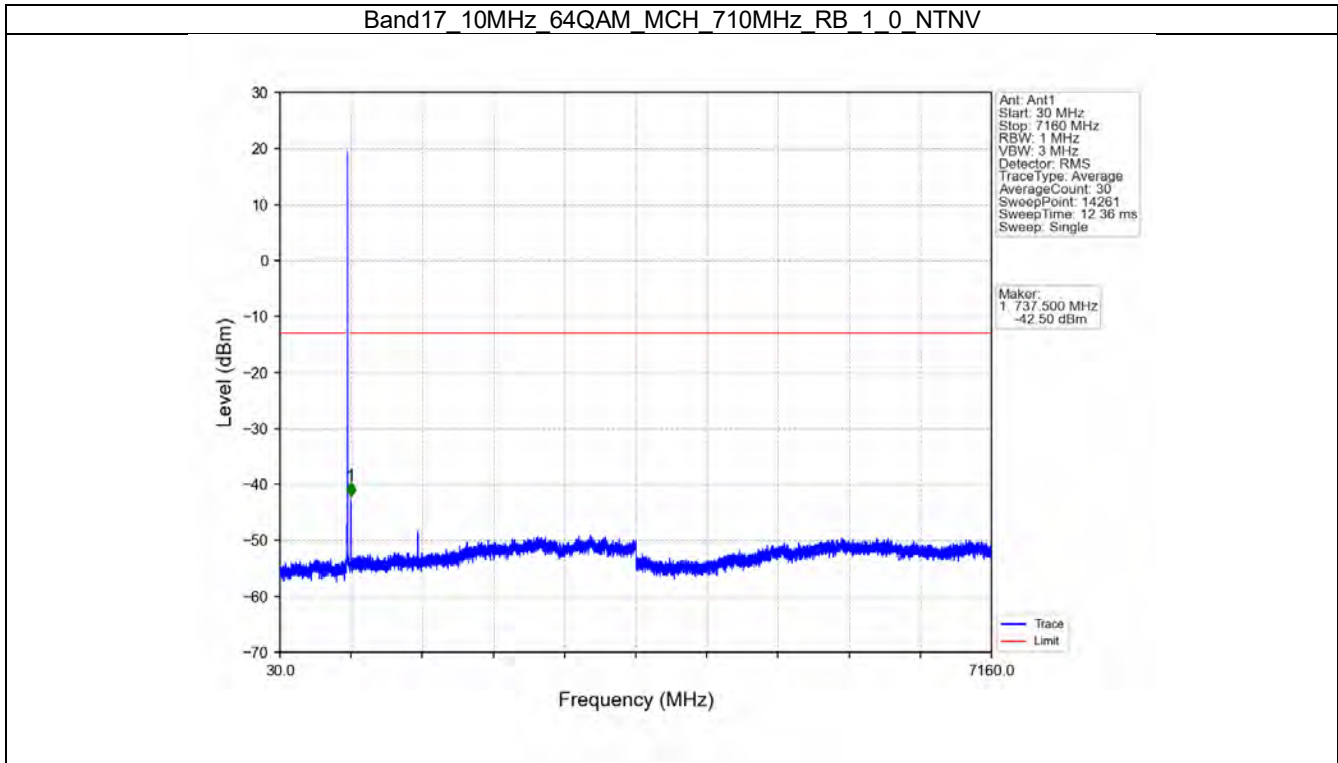


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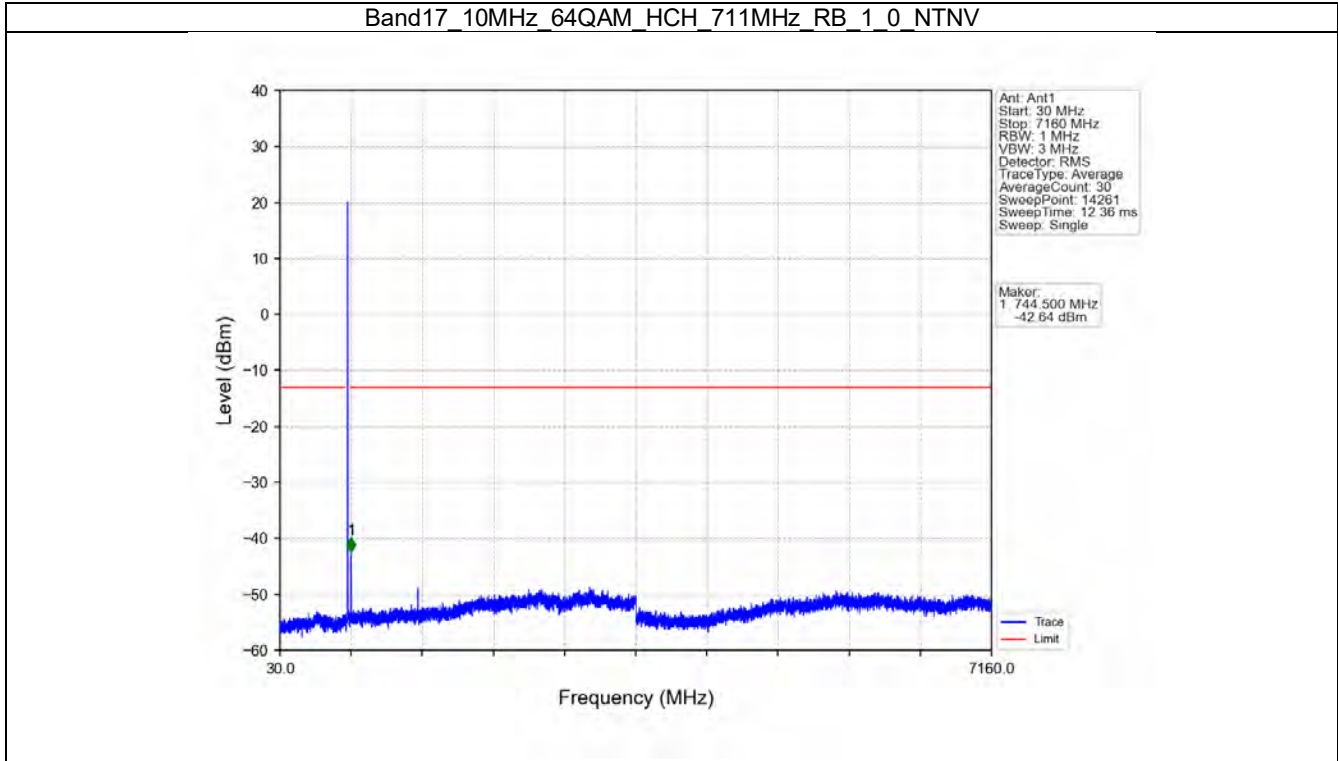


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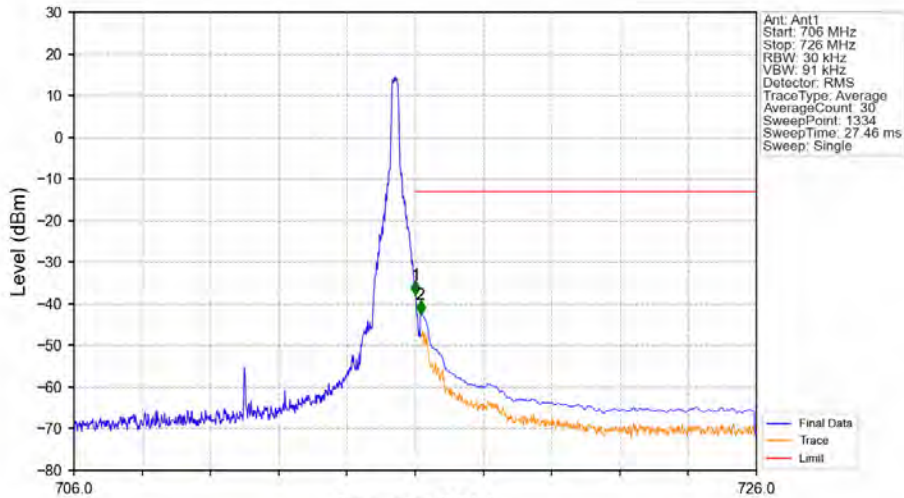
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Band17_10MHz_64QAM_HCH_711MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-37.89	-13	Pass
716.1	726	0.1	CHP	2	716.158	-42.56	-13	Pass



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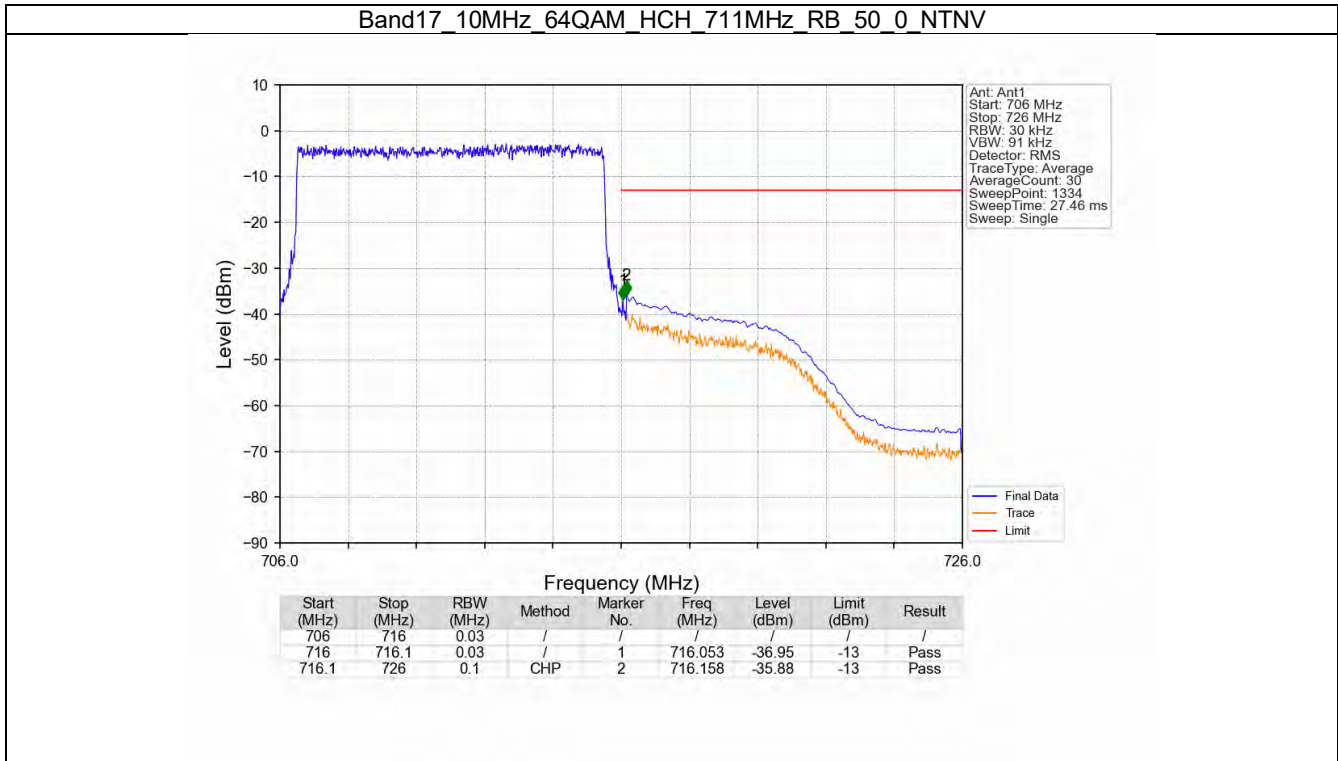


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6. Field Strength of Spurious Radiation

Test Band = B17 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	1408.9	50.88	24.23	-49.11	-69.26	-13.00	56.26	Horizontal
2	2113.5000	43.08	26.47	-48.20	-73.91	-13.00	60.91	Horizontal
3	2818.0000	44.11	28.16	-47.36	-70.35	-13.00	57.35	Horizontal
4	3522.5000	44.89	28.74	-47.46	-69.09	-13.00	56.09	Horizontal
5	4227.0000	44.65	29.82	-47.11	-67.90	-13.00	54.90	Horizontal
6	4931.5000	44.16	31.24	-46.99	-66.85	-13.00	53.85	Horizontal

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1408.9	50.31	24.23	-49.11	-69.83	-13.00	56.83	Vertical
2	2113.5000	43.13	26.47	-48.20	-73.86	-13.00	60.86	Vertical
3	2818.0000	44.26	28.16	-47.36	-70.20	-13.00	57.20	Vertical
4	3522.5000	45.24	28.74	-47.46	-68.74	-13.00	55.74	Vertical
5	4227.0000	44.39	29.82	-47.11	-68.16	-13.00	55.16	Vertical
6	4931.5000	44.17	31.24	-46.99	-66.84	-13.00	53.84	Vertical



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

Report No.: SZCR240400116001

Rev.: 01

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Test Band = B17 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	1410.6625	50.37	24.23	-49.11	-69.77	-13.00	56.77	Horizontal
2	2116.5000	42.74	26.48	-48.21	-74.25	-13.00	61.25	Horizontal
3	2822.0000	44.66	28.17	-47.38	-69.81	-13.00	56.81	Horizontal
4	3527.5000	44.50	28.74	-47.48	-69.50	-13.00	56.50	Horizontal
5	4233.0000	44.77	29.83	-47.11	-67.77	-13.00	54.77	Horizontal
6	4938.5000	44.36	31.25	-46.99	-66.64	-13.00	53.64	Horizontal

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411.25	47.89	24.23	-49.11	-72.25	-13.00	59.25	Vertical
2	2116.5000	42.85	26.48	-48.21	-74.14	-13.00	61.14	Vertical
3	2822.0000	43.87	28.17	-47.38	-70.60	-13.00	57.60	Vertical
4	3527.5000	44.10	28.74	-47.48	-69.90	-13.00	56.90	Vertical
5	4233.0000	44.66	29.83	-47.11	-67.88	-13.00	54.88	Vertical
6	4938.5000	43.85	31.25	-46.99	-67.15	-13.00	54.15	Vertical



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

Report No.: SZCR240400116001

Rev.: 01

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Test Band = B17 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	1413.0125	51.31	24.24	-49.11	-68.82	-13.00	55.82	Horizontal
2	2119.5000	43.06	26.49	-48.22	-73.93	-13.00	60.93	Horizontal
3	2826.0000	43.89	28.18	-47.39	-70.58	-13.00	57.58	Horizontal
4	3532.5000	44.43	28.75	-47.50	-69.58	-13.00	56.58	Horizontal
5	4239.0000	44.38	29.84	-47.10	-68.14	-13.00	55.14	Horizontal
6	4945.5000	44.60	31.27	-46.98	-66.37	-13.00	53.37	Horizontal

Final Data List								
NO	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.0125	48.08	24.24	-49.11	-72.05	-13.00	59.05	Vertical
2	2119.5000	42.71	26.49	-48.22	-74.28	-13.00	61.28	Vertical
3	2826.0000	44.52	28.18	-47.39	-69.95	-13.00	56.95	Vertical
4	3532.5000	44.63	28.75	-47.50	-69.38	-13.00	56.38	Vertical
5	4239.0000	44.19	29.84	-47.10	-68.33	-13.00	55.33	Vertical
6	4945.5000	44.23	31.27	-46.98	-66.74	-13.00	53.74	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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