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Appendix B.10

LTE Band 17



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1. Effective (Isotropic) Radiated Power Output Data

1.1 B17_5MHz_ERPAnt0

1.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTN5										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	706.5	1	0	23.72	-1.20	20.37	<=34.77	Pass		
			13	23.73	-1.20	20.38	<=34.77	Pass		
			24	23.80	-1.20	20.45	<=34.77	Pass		
		12	0	22.71	-1.20	19.36	<=34.77	Pass		
			6	22.71	-1.20	19.36	<=34.77	Pass		
			13	22.73	-1.20	19.38	<=34.77	Pass		
		25	0	22.76	-1.20	19.41	<=34.77	Pass		
		710	1	0	22.00	-1.20	18.65	<=34.77	Pass	
				13	22.00	-1.20	18.65	<=34.77	Pass	
	24			22.01	-1.20	18.66	<=34.77	Pass		
	12		0	22.01	-1.20	18.66	<=34.77	Pass		
			6	22.01	-1.20	18.66	<=34.77	Pass		
			13	22.01	-1.20	18.66	<=34.77	Pass		
	25		0	22.01	-1.20	18.66	<=34.77	Pass		
	713.5		1	0	21.89	-1.20	18.54	<=34.77	Pass	
				13	21.89	-1.20	18.54	<=34.77	Pass	
		24		21.90	-1.20	18.55	<=34.77	Pass		
		12	0	21.89	-1.20	18.54	<=34.77	Pass		
			6	21.90	-1.20	18.55	<=34.77	Pass		
			13	21.89	-1.20	18.54	<=34.77	Pass		
		25	0	21.89	-1.20	18.54	<=34.77	Pass		
		16QAM	706.5	1	0	22.97	-1.20	19.62	<=34.77	Pass
					13	22.97	-1.20	19.62	<=34.77	Pass
	24				23.01	-1.20	19.66	<=34.77	Pass	
12	0			21.76	-1.20	18.41	<=34.77	Pass		
	6			21.76	-1.20	18.41	<=34.77	Pass		
	13			21.80	-1.20	18.45	<=34.77	Pass		
25	0			21.76	-1.20	18.41	<=34.77	Pass		
710	1			0	22.03	-1.20	18.68	<=34.77	Pass	
				13	22.02	-1.20	18.67	<=34.77	Pass	
			24	22.01	-1.20	18.66	<=34.77	Pass		
	12		0	22.02	-1.20	18.67	<=34.77	Pass		
			6	22.01	-1.20	18.66	<=34.77	Pass		
			13	22.01	-1.20	18.66	<=34.77	Pass		
	25		0	22.01	-1.20	18.66	<=34.77	Pass		
	713.5		1	0	21.90	-1.20	18.55	<=34.77	Pass	
				13	21.89	-1.20	18.54	<=34.77	Pass	



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64QAM		12	24	21.90	-1.20	18.55	<=34.77	Pass	
			0	21.90	-1.20	18.55	<=34.77	Pass	
			6	21.90	-1.20	18.55	<=34.77	Pass	
			13	21.90	-1.20	18.55	<=34.77	Pass	
		25	0	21.90	-1.20	18.55	<=34.77	Pass	
				0	21.88	-1.20	18.53	<=34.77	Pass
				13	21.87	-1.20	18.52	<=34.77	Pass
				24	21.92	-1.20	18.57	<=34.77	Pass
	706.5	1	0	21.88	-1.20	18.53	<=34.77	Pass	
				13	21.87	-1.20	18.52	<=34.77	Pass
				24	21.92	-1.20	18.57	<=34.77	Pass
				0	20.75	-1.20	17.40	<=34.77	Pass
12		6	20.74	-1.20	17.39	<=34.77	Pass		
			13	20.75	-1.20	17.40	<=34.77	Pass	
			0	20.79	-1.20	17.44	<=34.77	Pass	
			0	22.00	-1.20	18.65	<=34.77	Pass	
25		1	13	22.01	-1.20	18.66	<=34.77	Pass	
				24	22.01	-1.20	18.66	<=34.77	Pass
				0	22.01	-1.20	18.66	<=34.77	Pass
				6	22.01	-1.20	18.66	<=34.77	Pass
710	12	13	22.00	-1.20	18.65	<=34.77	Pass		
			0	22.00	-1.20	18.65	<=34.77	Pass	
			0	21.91	-1.20	18.56	<=34.77	Pass	
			13	21.90	-1.20	18.55	<=34.77	Pass	
713.5	24	21.90	18.55	<=34.77	Pass				
			0	21.91	-1.20	18.56	<=34.77	Pass	
			6	21.90	-1.20	18.55	<=34.77	Pass	
			13	21.90	-1.20	18.55	<=34.77	Pass	
256QAM	706.5	1	0	18.92	-1.20	15.57	<=34.77	Pass	
				13	18.93	-1.20	15.58	<=34.77	Pass
				24	18.99	-1.20	15.64	<=34.77	Pass
				0	18.77	-1.20	15.42	<=34.77	Pass
	12	6	18.77	-1.20	15.42	<=34.77	Pass		
			13	18.81	-1.20	15.46	<=34.77	Pass	
			0	18.76	-1.20	15.41	<=34.77	Pass	
			0	18.85	-1.20	15.50	<=34.77	Pass	
	710	1	13	18.91	-1.20	15.56	<=34.77	Pass	
				24	19.04	-1.20	15.69	<=34.77	Pass
				0	18.83	-1.20	15.48	<=34.77	Pass
				6	18.83	-1.20	15.48	<=34.77	Pass
713.5	12	13	18.90	-1.20	15.55	<=34.77	Pass		
			0	18.89	-1.20	15.54	<=34.77	Pass	
			0	18.67	-1.20	15.32	<=34.77	Pass	
			13	18.79	-1.20	15.44	<=34.77	Pass	
	25	0	18.94	-1.20	15.59	<=34.77	Pass		
			0	19.03	-1.20	15.68	<=34.77	Pass	
			6	19.06	-1.20	15.71	<=34.77	Pass	
			13	19.11	-1.20	15.76	<=34.77	Pass	
			19.08	-1.20	15.73	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15



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1.2 B17_10MHz_ERP

1.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	709	1	0	22.30	-1.20	18.95	<=34.77	Pass		
			25	22.31	-1.20	18.96	<=34.77	Pass		
			49	22.29	-1.20	18.94	<=34.77	Pass		
		25	0	22.30	-1.20	18.95	<=34.77	Pass		
			13	22.31	-1.20	18.96	<=34.77	Pass		
			25	22.32	-1.20	18.97	<=34.77	Pass		
		50	0	22.30	-1.20	18.95	<=34.77	Pass		
		710	1	0	21.85	-1.20	18.50	<=34.77	Pass	
				25	21.87	-1.20	18.52	<=34.77	Pass	
	49			21.86	-1.20	18.51	<=34.77	Pass		
	25		0	21.86	-1.20	18.51	<=34.77	Pass		
			13	21.85	-1.20	18.50	<=34.77	Pass		
			25	21.86	-1.20	18.51	<=34.77	Pass		
	50		0	21.86	-1.20	18.51	<=34.77	Pass		
	711		1	0	21.56	-1.20	18.21	<=34.77	Pass	
				25	21.58	-1.20	18.23	<=34.77	Pass	
		49		21.56	-1.20	18.21	<=34.77	Pass		
		25	0	21.57	-1.20	18.22	<=34.77	Pass		
			13	21.57	-1.20	18.22	<=34.77	Pass		
			25	21.56	-1.20	18.21	<=34.77	Pass		
		50	0	21.55	-1.20	18.20	<=34.77	Pass		
		16QAM	709	1	0	22.31	-1.20	18.96	<=34.77	Pass
					25	22.30	-1.20	18.95	<=34.77	Pass
	49				22.31	-1.20	18.96	<=34.77	Pass	
25	0			22.32	-1.20	18.97	<=34.77	Pass		
	13			22.32	-1.20	18.97	<=34.77	Pass		
	25			22.31	-1.20	18.96	<=34.77	Pass		
50	0			22.31	-1.20	18.96	<=34.77	Pass		
710	1			0	21.85	-1.20	18.50	<=34.77	Pass	
				25	21.86	-1.20	18.51	<=34.77	Pass	
			49	21.85	-1.20	18.50	<=34.77	Pass		
	25		0	21.85	-1.20	18.50	<=34.77	Pass		
			13	21.85	-1.20	18.50	<=34.77	Pass		
			25	21.85	-1.20	18.50	<=34.77	Pass		
	50		0	21.84	-1.20	18.49	<=34.77	Pass		
	711		1	0	21.56	-1.20	18.21	<=34.77	Pass	
				25	21.55	-1.20	18.20	<=34.77	Pass	
49				21.56	-1.20	18.21	<=34.77	Pass		
25			0	21.56	-1.20	18.21	<=34.77	Pass		
			13	21.55	-1.20	18.20	<=34.77	Pass		



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			25	21.56	-1.20	18.21	<=34.77	Pass
		50	0	21.55	-1.20	18.20	<=34.77	Pass
64QAM	709	1	0	22.30	-1.20	18.95	<=34.77	Pass
			25	22.31	-1.20	18.96	<=34.77	Pass
			49	22.31	-1.20	18.96	<=34.77	Pass
		25	0	22.31	-1.20	18.96	<=34.77	Pass
			13	22.32	-1.20	18.97	<=34.77	Pass
			25	22.31	-1.20	18.96	<=34.77	Pass
	50	0	22.30	-1.20	18.95	<=34.77	Pass	
	710	1	0	21.85	-1.20	18.50	<=34.77	Pass
			25	21.86	-1.20	18.51	<=34.77	Pass
			49	21.85	-1.20	18.50	<=34.77	Pass
		25	0	21.86	-1.20	18.51	<=34.77	Pass
			13	21.85	-1.20	18.50	<=34.77	Pass
			25	21.86	-1.20	18.51	<=34.77	Pass
	50	0	21.86	-1.20	18.51	<=34.77	Pass	
	711	1	0	21.55	-1.20	18.20	<=34.77	Pass
			25	21.54	-1.20	18.19	<=34.77	Pass
			49	21.54	-1.20	18.19	<=34.77	Pass
		25	0	21.55	-1.20	18.20	<=34.77	Pass
13			21.56	-1.20	18.21	<=34.77	Pass	
25			21.55	-1.20	18.20	<=34.77	Pass	
50	0	21.56	-1.20	18.21	<=34.77	Pass		
256QAM	709	1	0	19.19	-1.20	15.84	<=34.77	Pass
			25	19.23	-1.20	15.88	<=34.77	Pass
			49	19.44	-1.20	16.09	<=34.77	Pass
		25	0	18.78	-1.20	15.43	<=34.77	Pass
			13	18.84	-1.20	15.49	<=34.77	Pass
			25	18.95	-1.20	15.60	<=34.77	Pass
	50	0	18.83	-1.20	15.48	<=34.77	Pass	
	710	1	0	18.61	-1.20	15.26	<=34.77	Pass
			25	18.69	-1.20	15.34	<=34.77	Pass
			49	18.87	-1.20	15.52	<=34.77	Pass
		25	0	18.85	-1.20	15.50	<=34.77	Pass
			13	18.89	-1.20	15.54	<=34.77	Pass
			25	19.00	-1.20	15.65	<=34.77	Pass
	50	0	18.84	-1.20	15.49	<=34.77	Pass	
	711	1	0	18.89	-1.20	15.54	<=34.77	Pass
			25	19.01	-1.20	15.66	<=34.77	Pass
			49	19.23	-1.20	15.88	<=34.77	Pass
		25	0	18.90	-1.20	15.55	<=34.77	Pass
13			19.00	-1.20	15.65	<=34.77	Pass	
25			19.07	-1.20	15.72	<=34.77	Pass	
50	0	18.92	-1.20	15.57	<=34.77	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15



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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	
QPSK	706.5	25	0	20	3.4	-6.323	-0.0089	Pass
					3.8	-2.074	-0.0029	Pass
					4.4	-2.303	-0.0033	Pass
				-30	3.8	-3.676	-0.0052	Pass
				-20	3.8	-4.020	-0.0057	Pass
				-10	3.8	-1.888	-0.0027	Pass
				0	3.8	-6.309	-0.0089	Pass
				10	3.8	-0.672	-0.0010	Pass
				30	3.8	-2.890	-0.0041	Pass
				40	3.8	0.315	0.0004	Pass
	50	3.8	-2.732	-0.0039	Pass			
	710	25	0	20	3.4	-2.904	-0.0041	Pass
					3.8	-0.315	-0.0004	Pass
					4.4	-1.216	-0.0017	Pass
				-30	3.8	0.315	0.0004	Pass
				-20	3.8	0.501	0.0007	Pass
				-10	3.8	-1.345	-0.0019	Pass
				0	3.8	1.373	0.0019	Pass
				10	3.8	-2.775	-0.0039	Pass
				30	3.8	0.358	0.0005	Pass
				40	3.8	-4.706	-0.0066	Pass
	50	3.8	-2.332	-0.0033	Pass			
	713.5	25	0	20	3.4	-2.818	-0.0039	Pass
					3.8	-1.459	-0.0020	Pass
					4.4	-3.247	-0.0046	Pass
				-30	3.8	-1.431	-0.0020	Pass
				-20	3.8	-0.086	-0.0001	Pass
				-10	3.8	-4.935	-0.0069	Pass
				0	3.8	-1.717	-0.0024	Pass
				10	3.8	-5.622	-0.0079	Pass
30				3.8	-1.416	-0.0020	Pass	
40				3.8	0.901	0.0013	Pass	
50	3.8	-6.208	-0.0087	Pass				
16QAM	706.5	25	0	20	3.4	-4.306	-0.0061	Pass
					3.8	-3.362	-0.0048	Pass
					4.4	-4.249	-0.0060	Pass



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				-30	3.8	-2.775	-0.0039	Pass
				-20	3.8	-1.287	-0.0018	Pass
				-10	3.8	-3.419	-0.0048	Pass
				0	3.8	-5.364	-0.0076	Pass
				10	3.8	-6.366	-0.0090	Pass
				30	3.8	-0.930	-0.0013	Pass
				40	3.8	-3.290	-0.0047	Pass
				50	3.8	-3.576	-0.0051	Pass
	710	25	0	20	3.4	-0.944	-0.0013	Pass
					3.8	-2.933	-0.0041	Pass
					4.4	-2.604	-0.0037	Pass
				-30	3.8	-3.004	-0.0042	Pass
				-20	3.8	-0.129	-0.0002	Pass
				-10	3.8	-0.501	-0.0007	Pass
				0	3.8	-3.748	-0.0053	Pass
				10	3.8	-3.276	-0.0046	Pass
				30	3.8	-3.848	-0.0054	Pass
				40	3.8	-1.974	-0.0028	Pass
				50	3.8	-1.545	-0.0022	Pass
				713.5	25	0	20	3.4
	3.8	-0.916	-0.0013					Pass
	4.4	-1.802	-0.0025					Pass
	-30	3.8	-1.173				-0.0016	Pass
	-20	3.8	-3.734				-0.0052	Pass
	-10	3.8	-1.774				-0.0025	Pass
	0	3.8	-0.300				-0.0004	Pass
	10	3.8	-2.847				-0.0040	Pass
	30	3.8	-2.003				-0.0028	Pass
40	3.8	-2.446	-0.0034				Pass	
50	3.8	2.475	0.0035				Pass	
64QAM	706.5	25	0				20	3.4
				3.8	-4.478	-0.0063		Pass
				4.4	-3.147	-0.0045		Pass
				-30	3.8	-5.822	-0.0082	Pass
				-20	3.8	-3.934	-0.0056	Pass
				-10	3.8	-0.930	-0.0013	Pass
				0	3.8	-6.309	-0.0089	Pass
				10	3.8	-3.533	-0.0050	Pass
				30	3.8	-3.333	-0.0047	Pass
				40	3.8	-2.446	-0.0035	Pass
				50	3.8	-4.749	-0.0067	Pass
				710	25	0	20	3.4
	3.8	-6.566	-0.0092					Pass
	4.4	-3.147	-0.0044					Pass
	-30	3.8	-3.190				-0.0045	Pass
	-20	3.8	-2.332				-0.0033	Pass
	-10	3.8	-2.046				-0.0029	Pass
	0	3.8	-2.103				-0.0030	Pass



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				10	3.8	-2.503	-0.0035	Pass			
				30	3.8	-1.159	-0.0016	Pass			
				40	3.8	-0.458	-0.0006	Pass			
				50	3.8	-1.173	-0.0017	Pass			
				713.5	25	0	20	3.4	-0.257	-0.0004	Pass
								3.8	-3.262	-0.0046	Pass
								4.4	-3.147	-0.0044	Pass
				-30	3.8	-3.176	-0.0045	Pass			
				-20	3.8	0.443	0.0006	Pass			
				-10	3.8	-7.010	-0.0098	Pass			
				0	3.8	-1.845	-0.0026	Pass			
				10	3.8	-2.332	-0.0033	Pass			
				30	3.8	-2.146	-0.0030	Pass			
				40	3.8	-2.904	-0.0041	Pass			
50	3.8	-0.987	-0.0014	Pass							
256QAM	706.5	25	0	20	3.4	-2.990	-0.0042	Pass			
					3.8	-2.074	-0.0029	Pass			
					4.4	-6.309	-0.0089	Pass			
				-30	3.8	-1.974	-0.0028	Pass			
				-20	3.8	-2.861	-0.0040	Pass			
				-10	3.8	-4.377	-0.0062	Pass			
				0	3.8	-5.279	-0.0075	Pass			
				10	3.8	-0.901	-0.0013	Pass			
				30	3.8	-0.572	-0.0008	Pass			
				40	3.8	0.086	0.0001	Pass			
				50	3.8	-3.262	-0.0046	Pass			
				710	25	0	20	3.4	-2.975	-0.0042	Pass
								3.8	-1.073	-0.0015	Pass
								4.4	-2.704	-0.0038	Pass
	-30	3.8	-0.172				-0.0002	Pass			
	-20	3.8	-3.648				-0.0051	Pass			
	-10	3.8	-1.988				-0.0028	Pass			
	0	3.8	-2.418				-0.0034	Pass			
	10	3.8	1.173				0.0017	Pass			
	30	3.8	-4.163				-0.0059	Pass			
	40	3.8	0.014	0.0000	Pass						
	50	3.8	-3.133	-0.0044	Pass						
	713.5	25	0	20	3.4	-0.672	-0.0009	Pass			
					3.8	-0.801	-0.0011	Pass			
					4.4	-2.933	-0.0041	Pass			
				-30	3.8	-0.501	-0.0007	Pass			
				-20	3.8	-2.618	-0.0037	Pass			
				-10	3.8	-4.034	-0.0057	Pass			
				0	3.8	-3.548	-0.0050	Pass			
				10	3.8	1.302	0.0018	Pass			
30				3.8	-5.422	-0.0076	Pass				
40				3.8	-0.730	-0.0010	Pass				
50				3.8	-0.272	-0.0004	Pass				



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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	
QPSK	709	50	0	20	3.4	-5.178	-0.0073	Pass
					3.8	-3.648	-0.0051	Pass
					4.4	-3.905	-0.0055	Pass
				-30	3.8	-3.190	-0.0045	Pass
				-20	3.8	-4.878	-0.0069	Pass
				-10	3.8	-3.304	-0.0047	Pass
				0	3.8	-6.852	-0.0097	Pass
				10	3.8	-2.475	-0.0035	Pass
				30	3.8	-5.636	-0.0079	Pass
				40	3.8	-3.877	-0.0055	Pass
	50	3.8	-3.061	-0.0043	Pass			
	710	50	0	20	3.4	-1.574	-0.0022	Pass
					3.8	0.558	0.0008	Pass
					4.4	-1.574	-0.0022	Pass
				-30	3.8	-0.758	-0.0011	Pass
				-20	3.8	-1.073	-0.0015	Pass
				-10	3.8	-1.631	-0.0023	Pass
				0	3.8	-1.187	-0.0017	Pass
				10	3.8	-3.047	-0.0043	Pass
				30	3.8	-1.388	-0.0020	Pass
				40	3.8	-4.520	-0.0064	Pass
	50	3.8	-3.362	-0.0047	Pass			
	711	50	0	20	3.4	-0.958	-0.0013	Pass
					3.8	-2.460	-0.0035	Pass
					4.4	-2.546	-0.0036	Pass
				-30	3.8	-2.503	-0.0035	Pass
				-20	3.8	-0.072	-0.0001	Pass
				-10	3.8	-2.117	-0.0030	Pass
				0	3.8	-0.830	-0.0012	Pass
				10	3.8	-3.448	-0.0048	Pass
30				3.8	2.003	0.0028	Pass	
40				3.8	-4.663	-0.0066	Pass	
50	3.8	-2.360	-0.0033	Pass				
16QAM	709	50	0	20	3.4	-3.905	-0.0055	Pass
					3.8	-4.406	-0.0062	Pass
					4.4	-4.935	-0.0070	Pass
				-30	3.8	-4.177	-0.0059	Pass



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64QAM	710	50	0	-20	3.8	-2.904	-0.0041	Pass		
				-10	3.8	-4.735	-0.0067	Pass		
				0	3.8	-4.764	-0.0067	Pass		
				10	3.8	-3.147	-0.0044	Pass		
				30	3.8	-4.077	-0.0058	Pass		
				40	3.8	-1.974	-0.0028	Pass		
				50	3.8	-1.917	-0.0027	Pass		
				20	3.4	-1.445	-0.0020	Pass		
					3.8	-3.376	-0.0048	Pass		
					4.4	-3.376	-0.0048	Pass		
				-30	3.8	-1.373	-0.0019	Pass		
				-20	3.8	-3.490	-0.0049	Pass		
				-10	3.8	-4.592	-0.0065	Pass		
				0	3.8	-2.933	-0.0041	Pass		
	10	3.8	-2.646	-0.0037	Pass					
	30	3.8	-2.947	-0.0042	Pass					
	40	3.8	-2.160	-0.0030	Pass					
	50	3.8	-2.890	-0.0041	Pass					
	711	50	0	20	3.4	-2.604	-0.0037	Pass		
					3.8	-1.516	-0.0021	Pass		
					4.4	-0.544	-0.0008	Pass		
				-30	3.8	-2.646	-0.0037	Pass		
				-20	3.8	-1.459	-0.0021	Pass		
				-10	3.8	-2.975	-0.0042	Pass		
				0	3.8	-2.589	-0.0036	Pass		
				10	3.8	-0.958	-0.0013	Pass		
				30	3.8	-3.190	-0.0045	Pass		
				40	3.8	-1.903	-0.0027	Pass		
50				3.8	-3.304	-0.0046	Pass			
709				50	0	20	3.4	-4.005	-0.0056	Pass
							3.8	-3.262	-0.0046	Pass
							4.4	-3.405	-0.0048	Pass
	-30	3.8	-2.818			-0.0040	Pass			
	-20	3.8	-3.605			-0.0051	Pass			
	-10	3.8	-5.107			-0.0072	Pass			
	0	3.8	-4.077			-0.0058	Pass			
	10	3.8	-4.063			-0.0057	Pass			
	30	3.8	-3.977			-0.0056	Pass			
	40	3.8	-6.609			-0.0093	Pass			
	50	3.8	-5.236			-0.0074	Pass			
	710	50	0			20	3.4	-2.890	-0.0041	Pass
							3.8	-5.221	-0.0074	Pass
							4.4	-1.302	-0.0018	Pass
-30				3.8	-4.320	-0.0061	Pass			
-20				3.8	-0.486	-0.0007	Pass			
-10				3.8	1.516	0.0021	Pass			
0				3.8	-3.147	-0.0044	Pass			
10				3.8	0.515	0.0007	Pass			



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	711	50	0	30	3.8	-4.191	-0.0059	Pass			
				40	3.8	-4.292	-0.0060	Pass			
				50	3.8	-0.801	-0.0011	Pass			
				20	3.4	-1.874	-0.0026	Pass			
					3.8	-3.333	-0.0047	Pass			
					4.4	-3.319	-0.0047	Pass			
				-30	3.8	0.787	0.0011	Pass			
				-20	3.8	-2.131	-0.0030	Pass			
				-10	3.8	1.431	0.0020	Pass			
				0	3.8	-0.930	-0.0013	Pass			
				10	3.8	-0.501	-0.0007	Pass			
				30	3.8	-0.758	-0.0011	Pass			
				40	3.8	-2.632	-0.0037	Pass			
				50	3.8	-3.004	-0.0042	Pass			
256QAM	709	50	0	20	3.4	-4.191	-0.0059	Pass			
					3.8	-2.761	-0.0039	Pass			
					4.4	-2.460	-0.0035	Pass			
				-30	3.8	-3.076	-0.0043	Pass			
				-20	3.8	-4.735	-0.0067	Pass			
				-10	3.8	-4.463	-0.0063	Pass			
				0	3.8	-3.905	-0.0055	Pass			
				10	3.8	-3.262	-0.0046	Pass			
				30	3.8	-3.119	-0.0044	Pass			
				40	3.8	-7.024	-0.0099	Pass			
				50	3.8	-4.878	-0.0069	Pass			
				710	50	0	20	3.4	-2.346	-0.0033	Pass
								3.8	-2.360	-0.0033	Pass
								4.4	-1.616	-0.0023	Pass
-30	3.8	-1.845	-0.0026				Pass				
-20	3.8	-0.615	-0.0009				Pass				
-10	3.8	-1.974	-0.0028				Pass				
0	3.8	-1.760	-0.0025				Pass				
10	3.8	-1.917	-0.0027				Pass				
30	3.8	-3.519	-0.0050	Pass							
40	3.8	-0.887	-0.0012	Pass							
50	3.8	-3.104	-0.0044	Pass							
711	50	0	20	3.4	-1.802	-0.0025	Pass				
				3.8	-3.104	-0.0044	Pass				
				4.4	-2.704	-0.0038	Pass				
			-30	3.8	-2.418	-0.0034	Pass				
			-20	3.8	-2.875	-0.0040	Pass				
			-10	3.8	-0.615	-0.0009	Pass				
			0	3.8	-1.745	-0.0025	Pass				
			10	3.8	-1.659	-0.0023	Pass				
30	3.8	-2.847	-0.0040	Pass							
40	3.8	-2.017	-0.0028	Pass							
50	3.8	-1.774	-0.0025	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	4.550	/	Pass
		710	25	0	4.548	/	Pass
		713.5	25	0	4.541	/	Pass
	16QAM	706.5	25	0	4.561	/	Pass
		710	25	0	4.543	/	Pass
		713.5	25	0	4.551	/	Pass
	64QAM	706.5	25	0	4.559	/	Pass
		710	25	0	4.533	/	Pass
		713.5	25	0	4.558	/	Pass
	256QAM	706.5	25	0	4.559	/	Pass
		710	25	0	4.551	/	Pass
		713.5	25	0	4.540	/	Pass
10	QPSK	709	50	0	9.058	/	Pass
		710	50	0	9.048	/	Pass
		711	50	0	9.020	/	Pass
	16QAM	709	50	0	9.069	/	Pass
		710	50	0	9.035	/	Pass
		711	50	0	9.039	/	Pass
	64QAM	709	50	0	9.077	/	Pass
		710	50	0	9.058	/	Pass
		711	50	0	9.039	/	Pass
	256QAM	709	50	0	9.033	/	Pass
		710	50	0	9.060	/	Pass
		711	50	0	9.049	/	Pass



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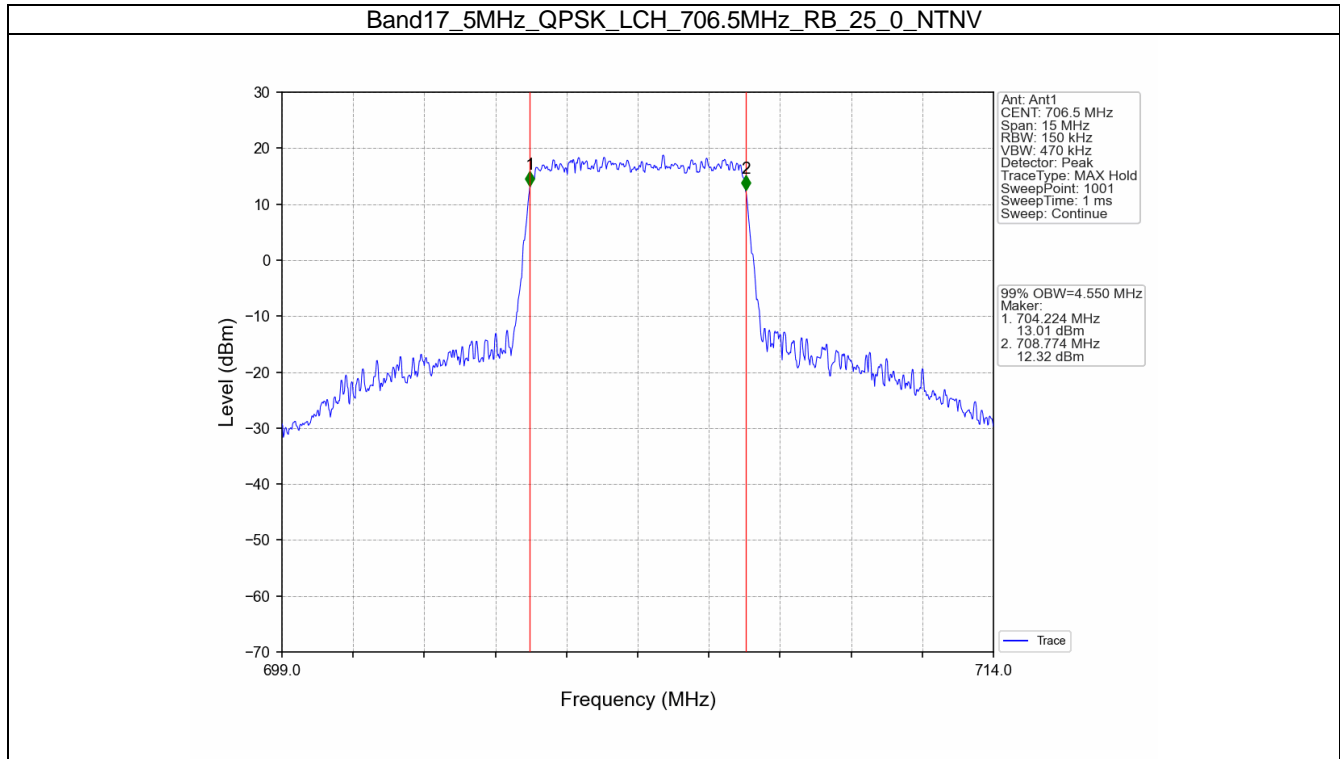
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3.1.2 Test Graph



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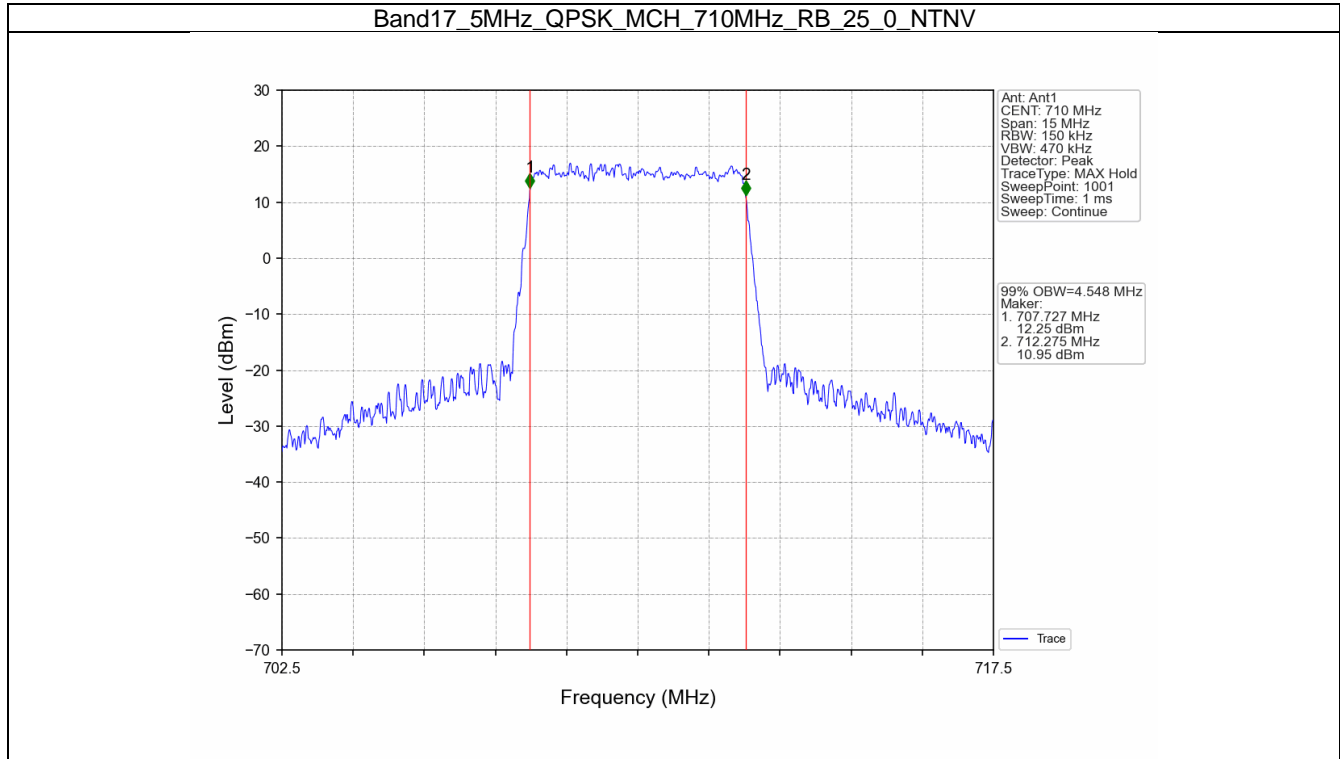
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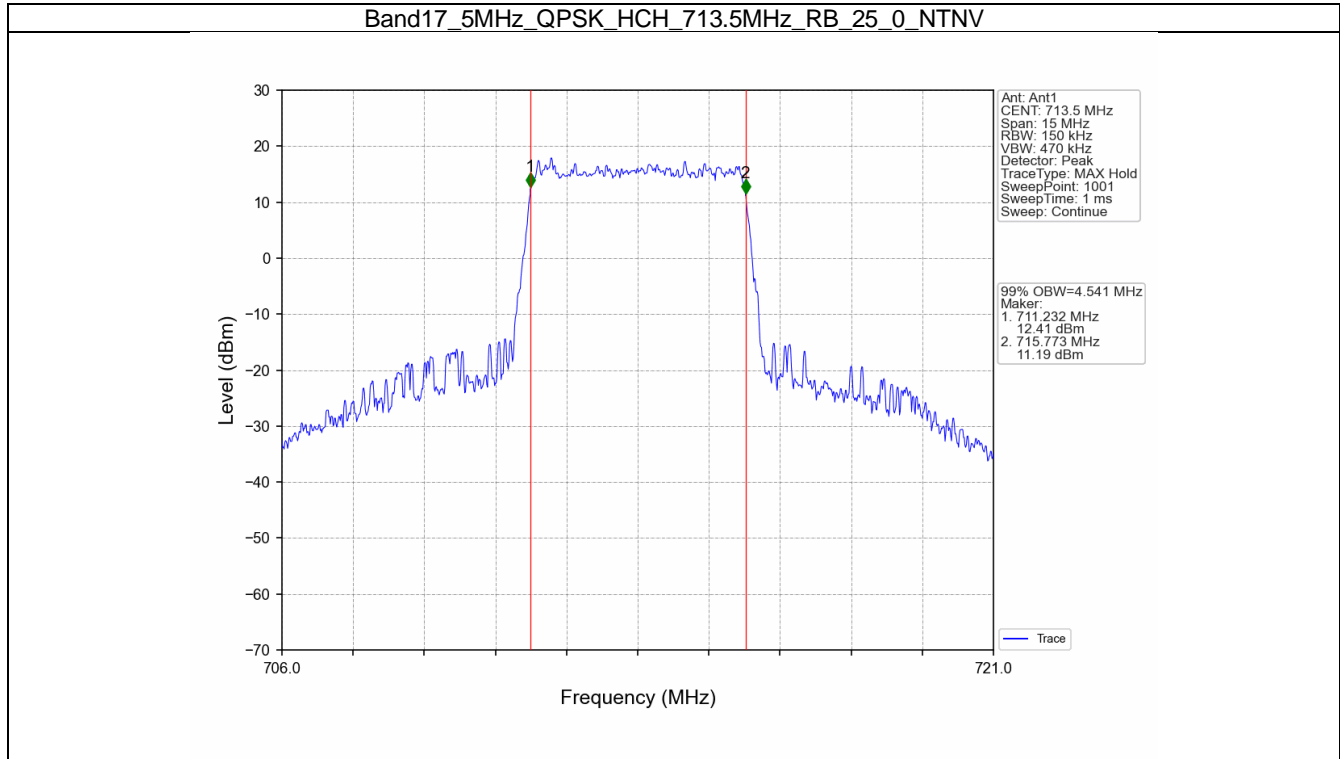
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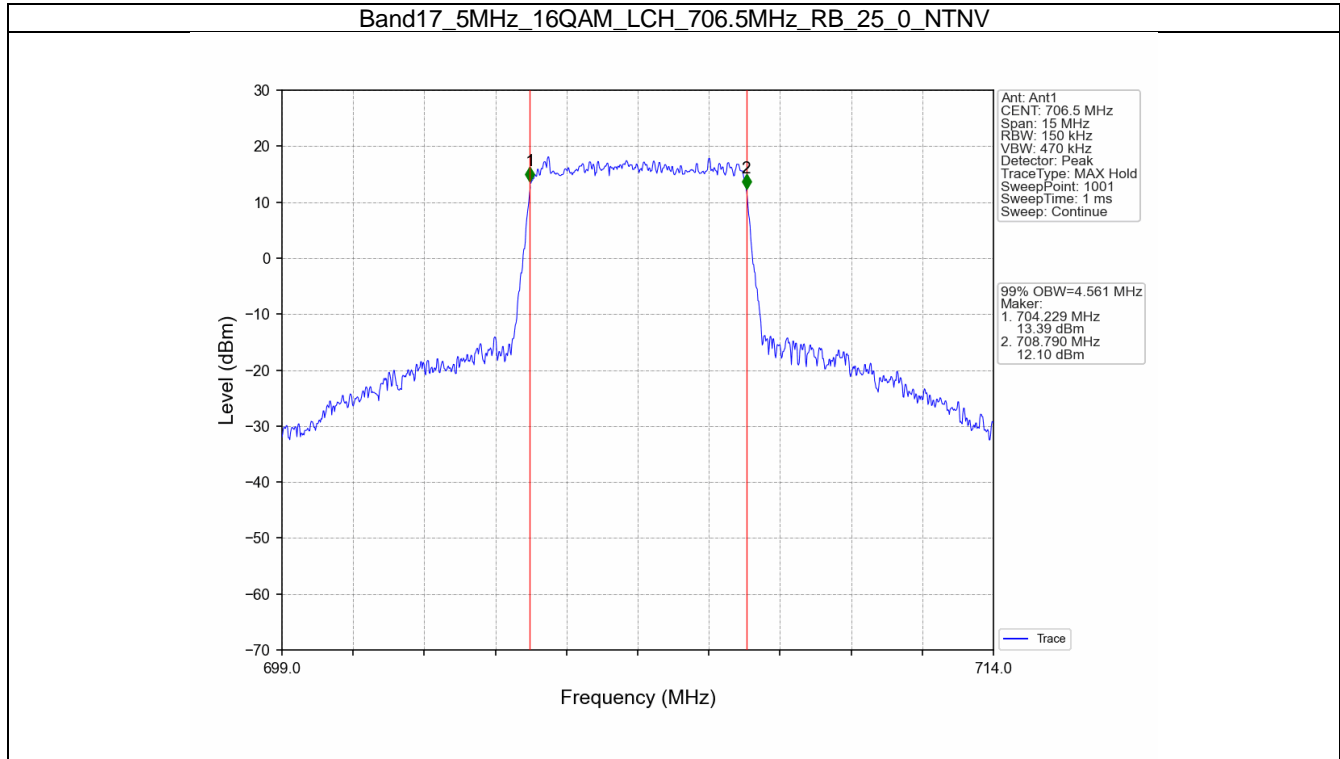
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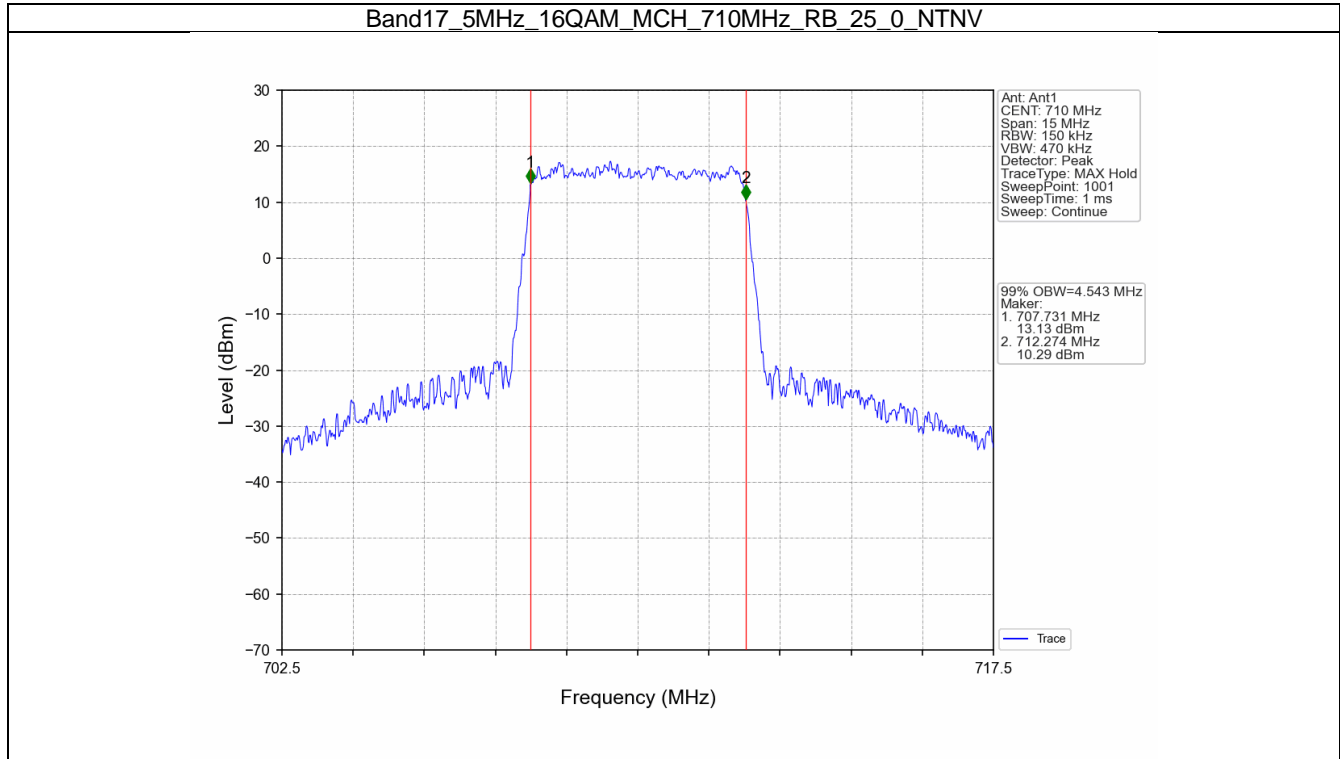
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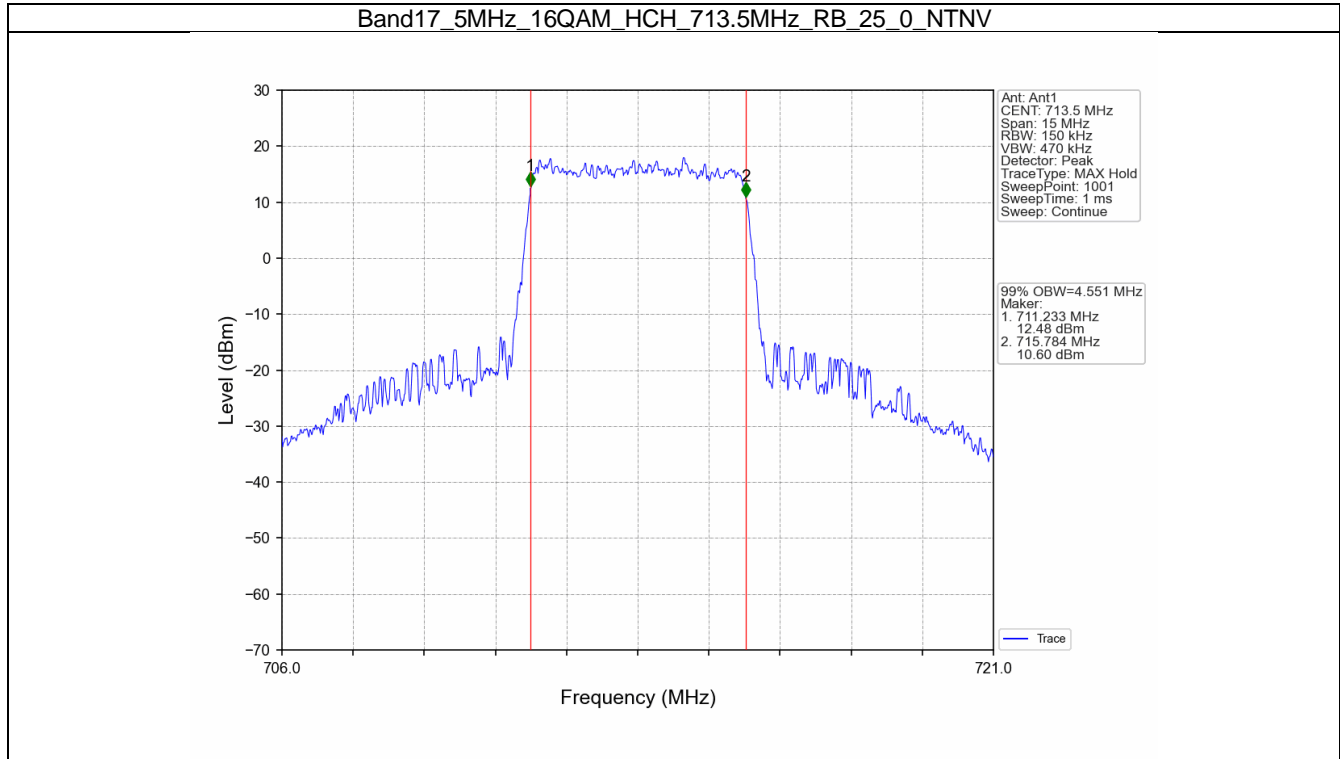
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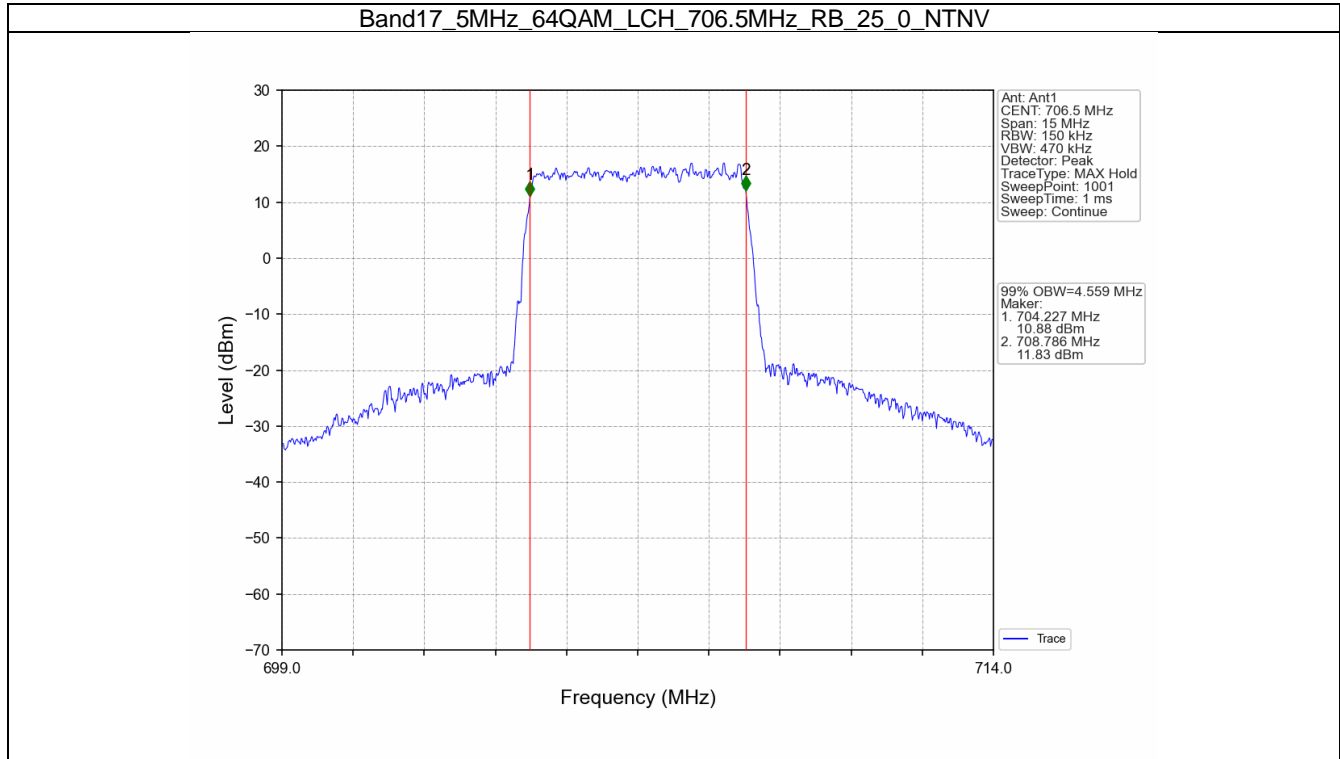
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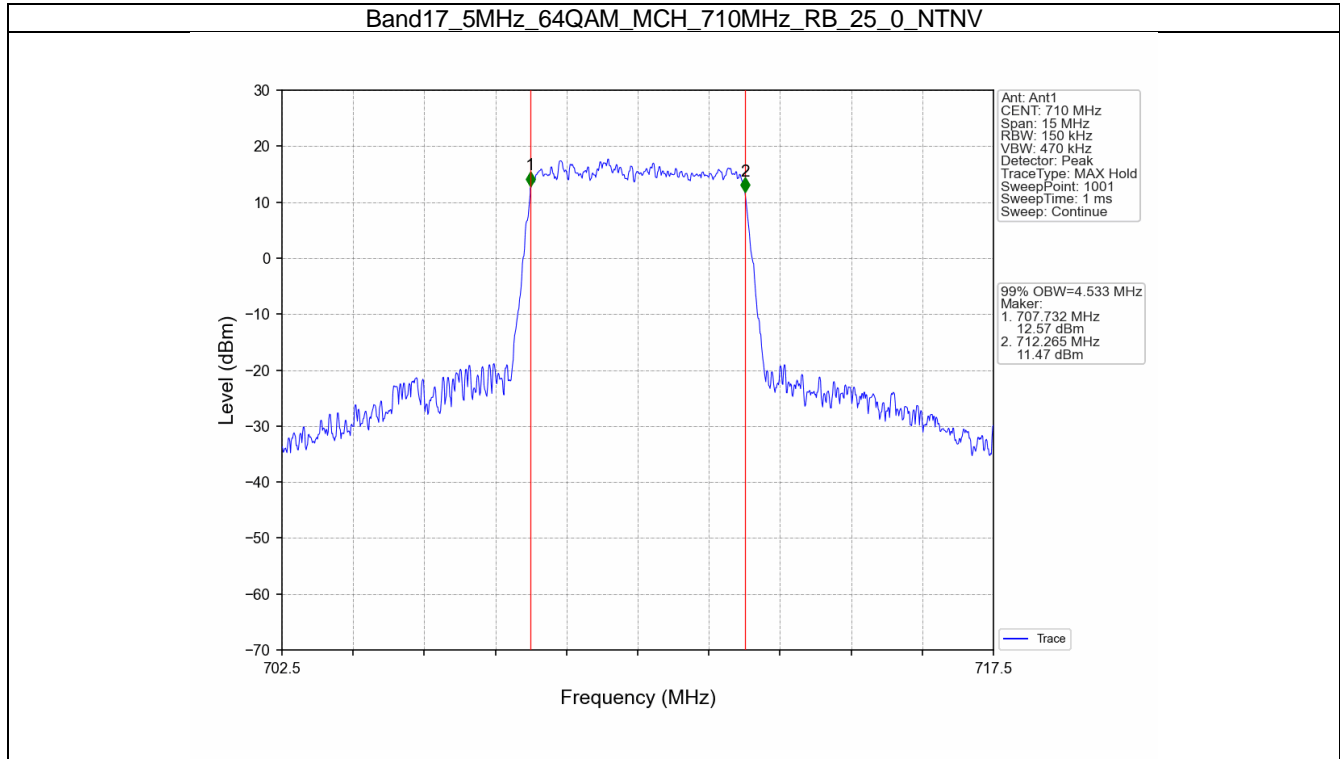
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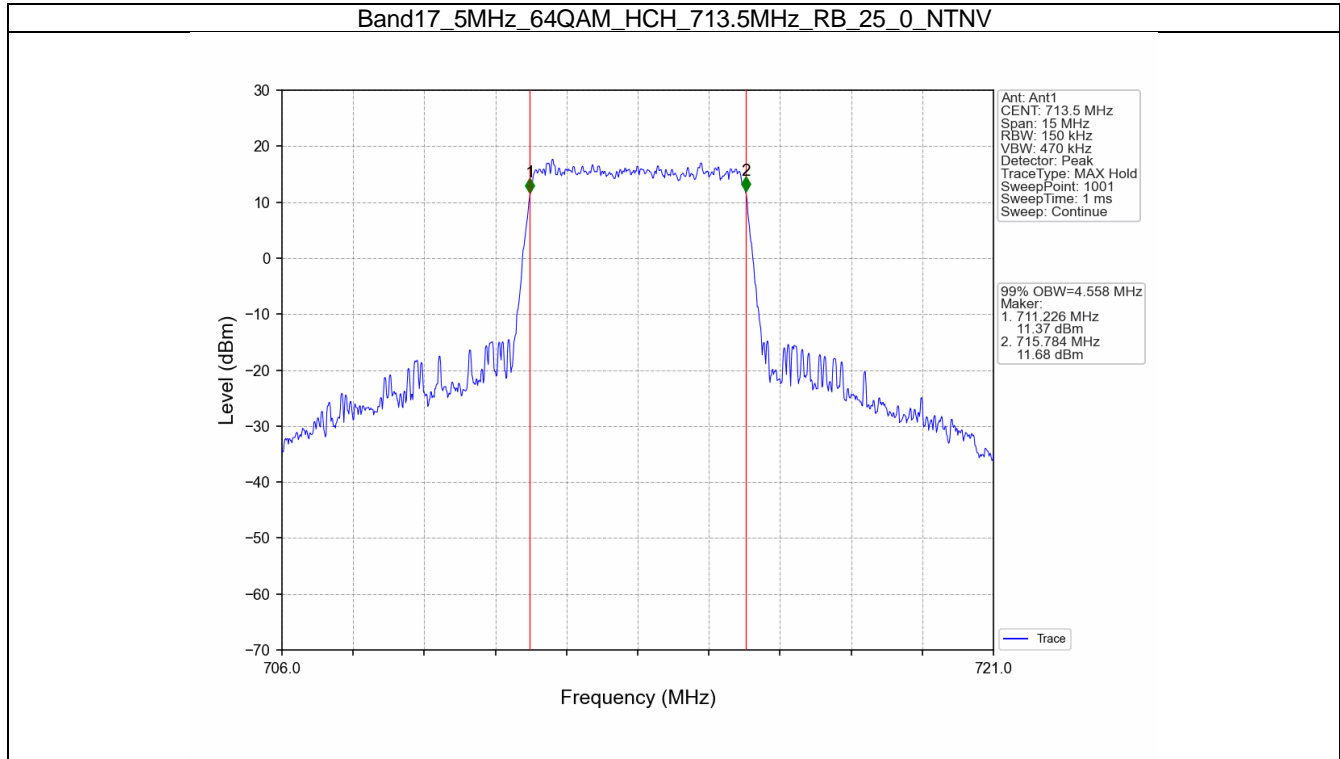
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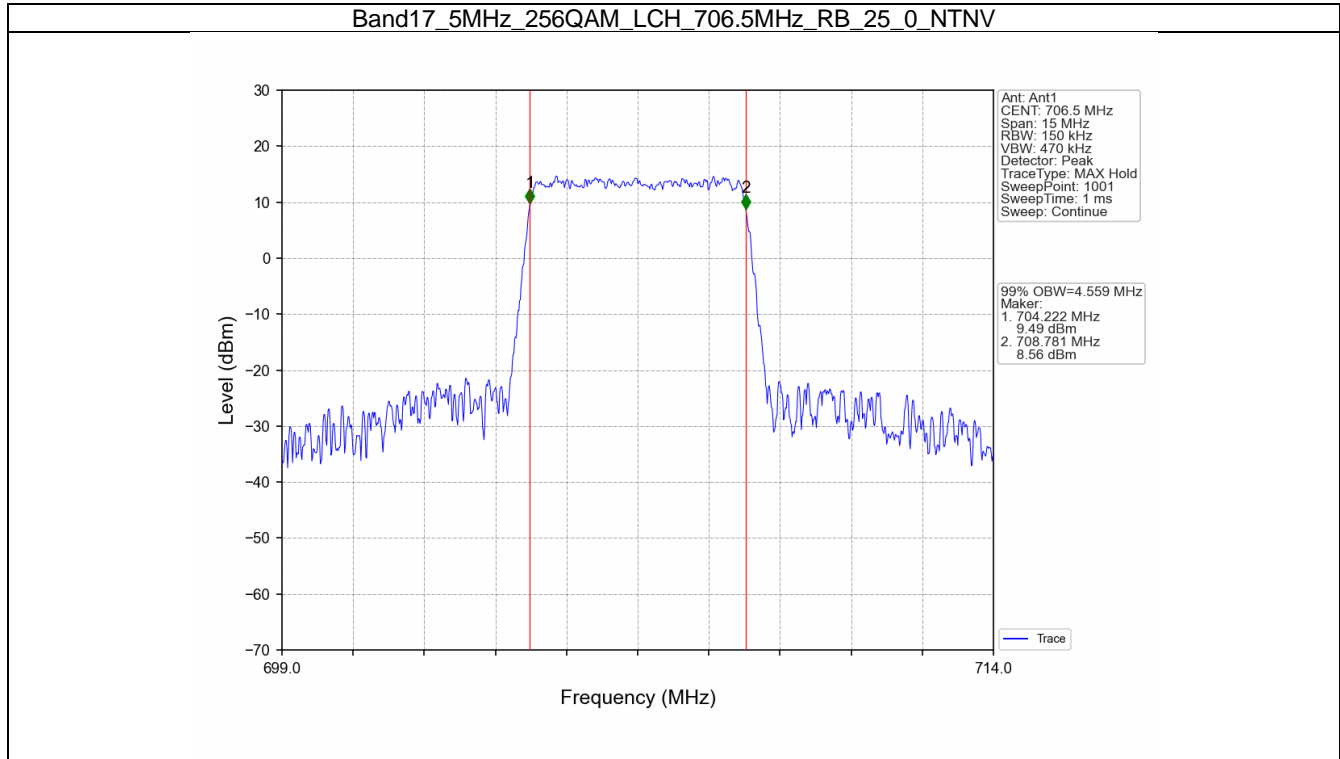
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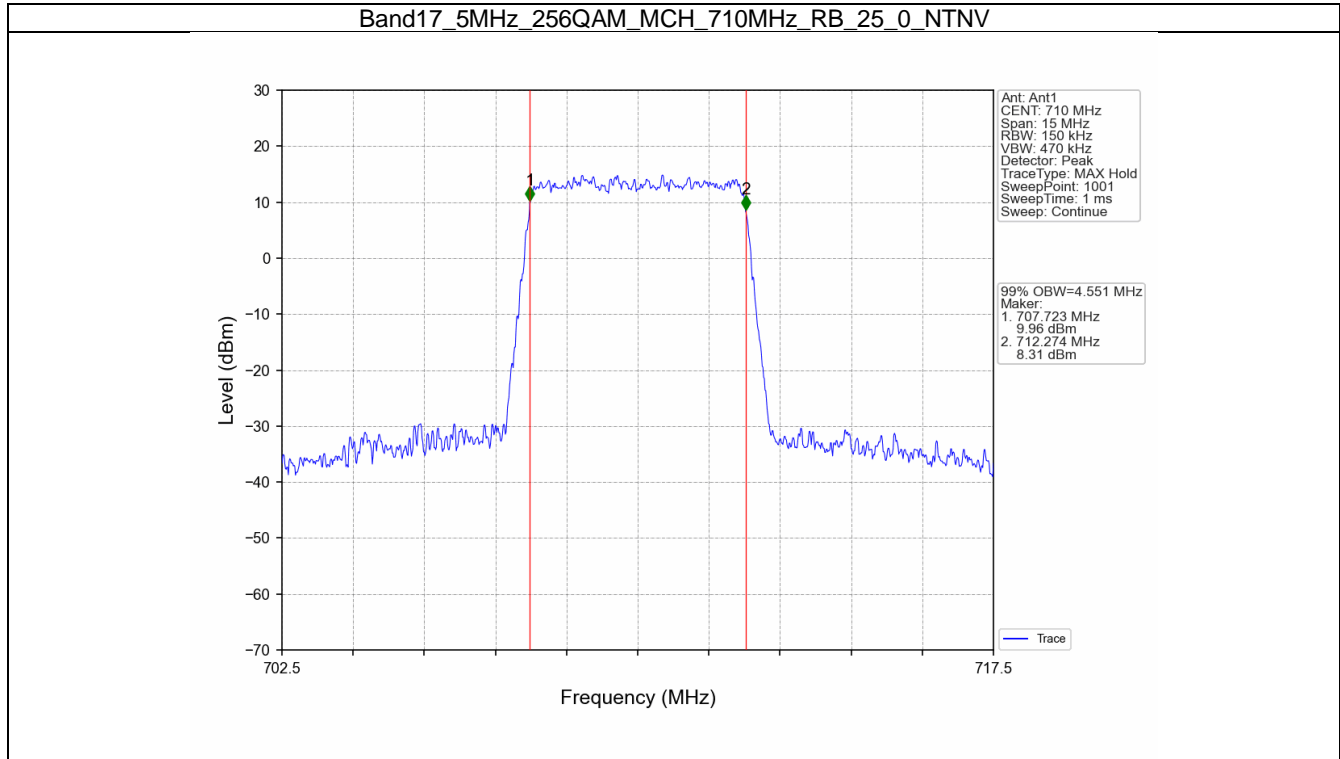
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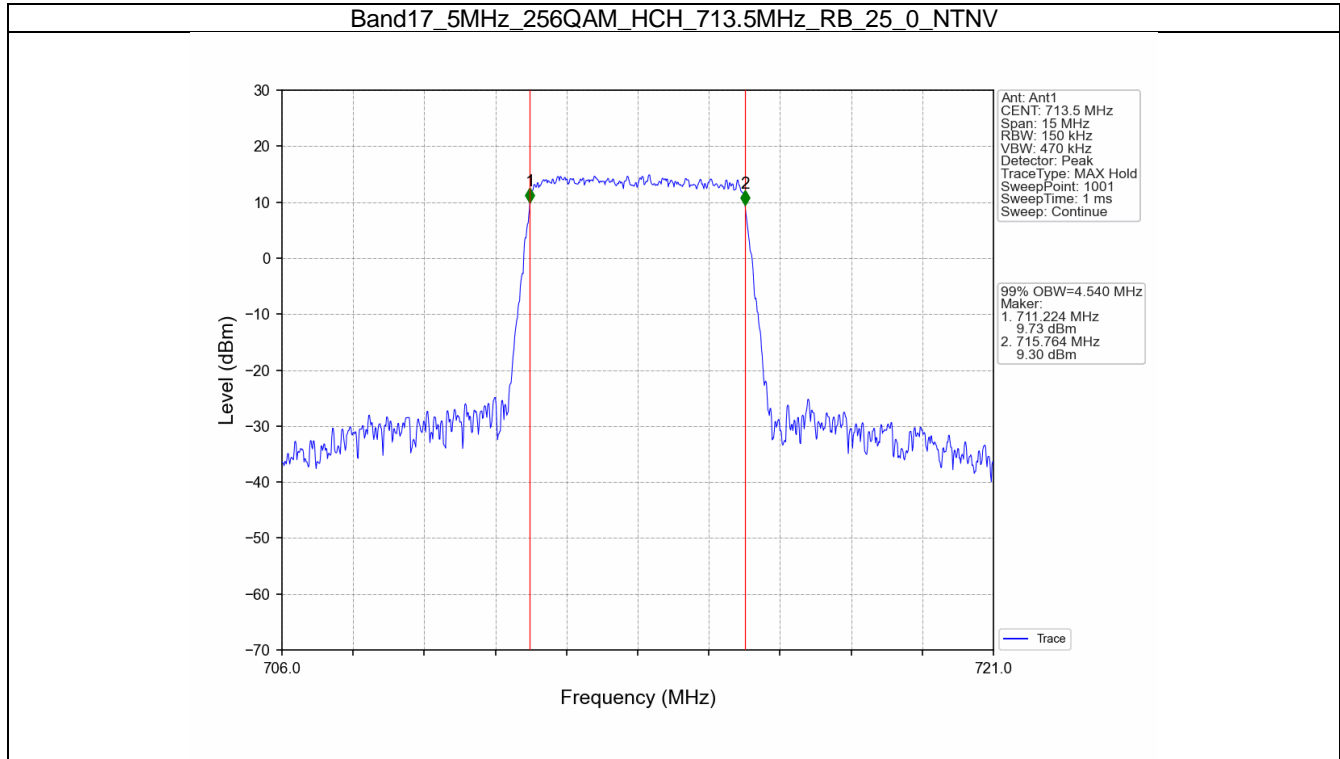
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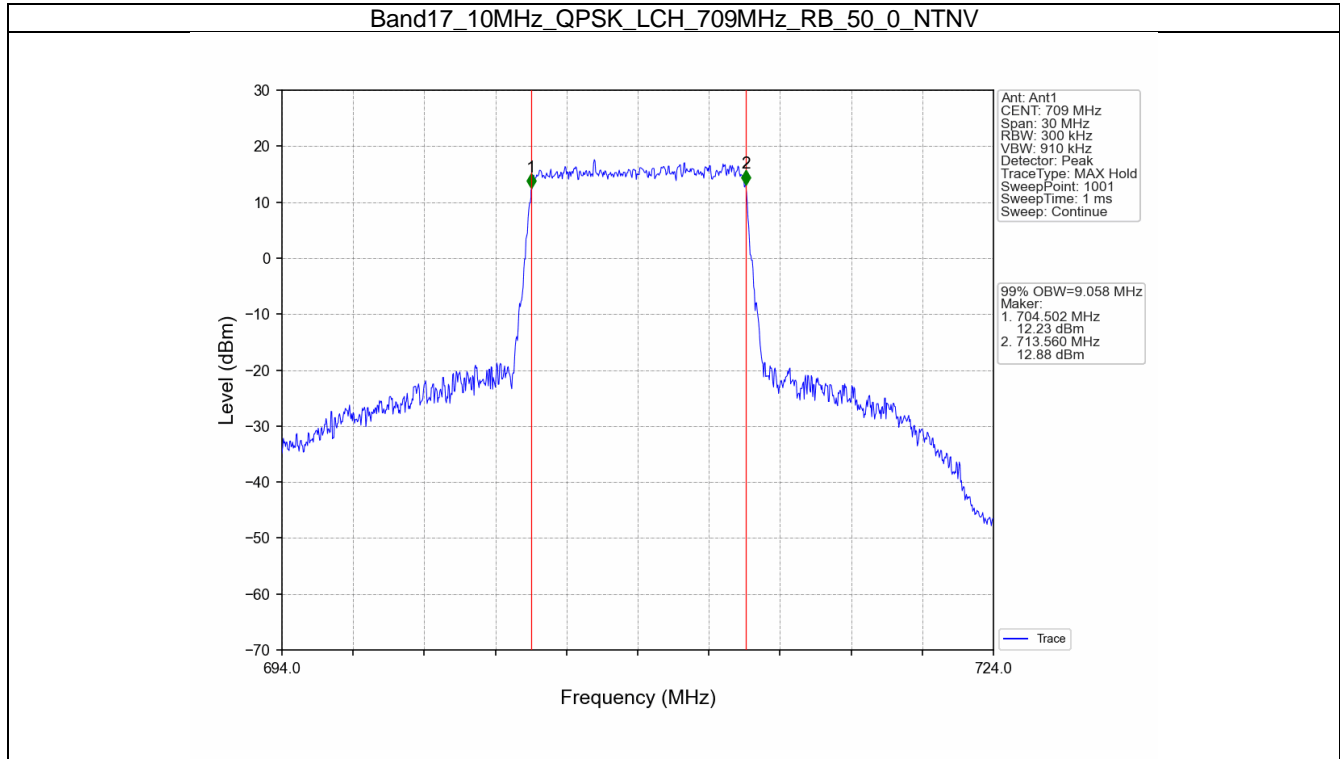
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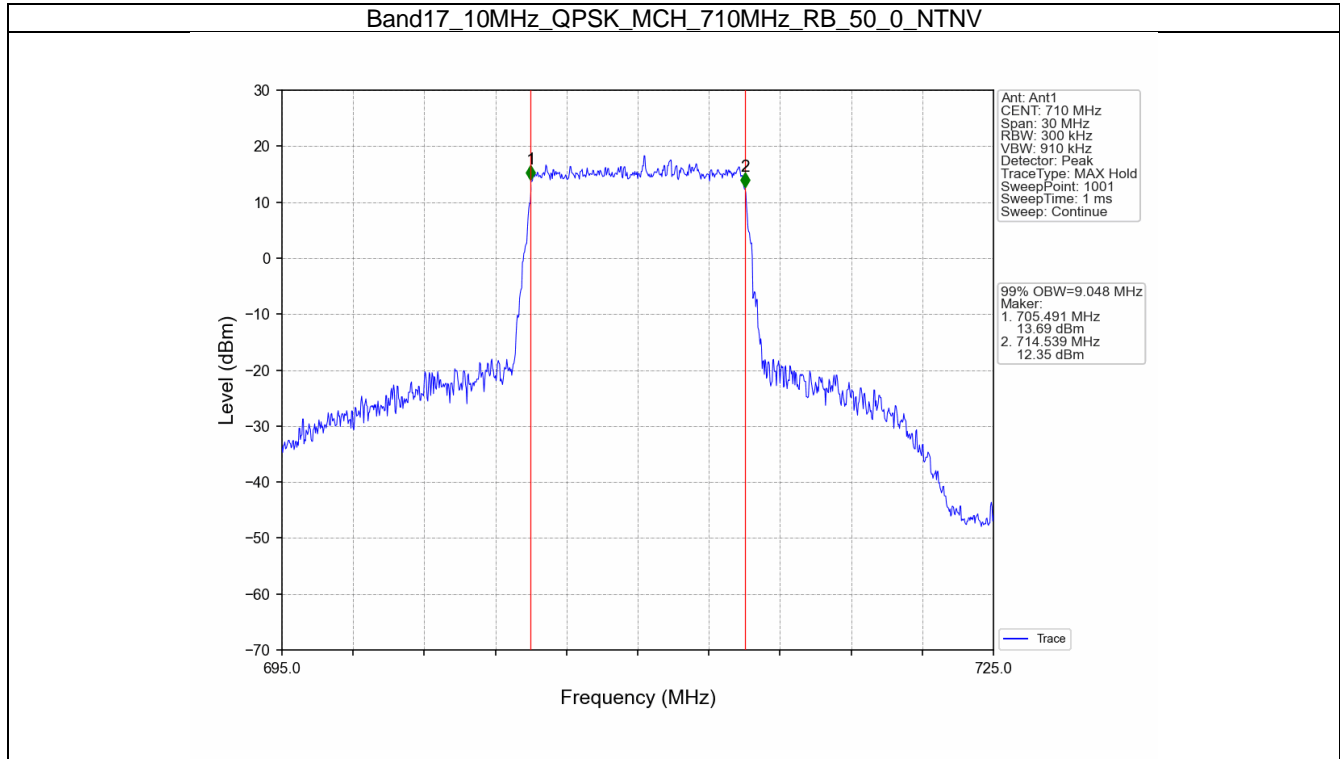
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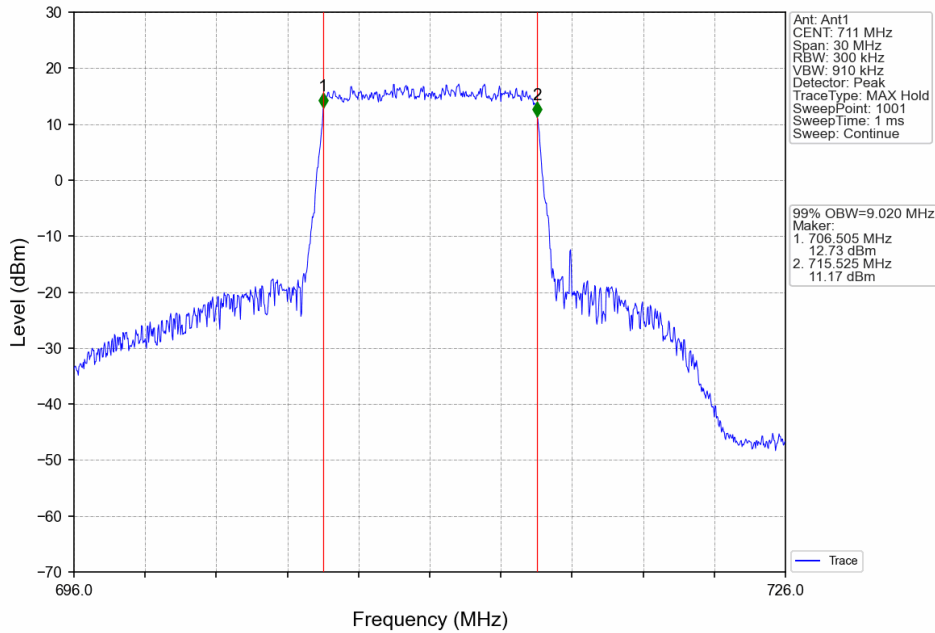


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Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



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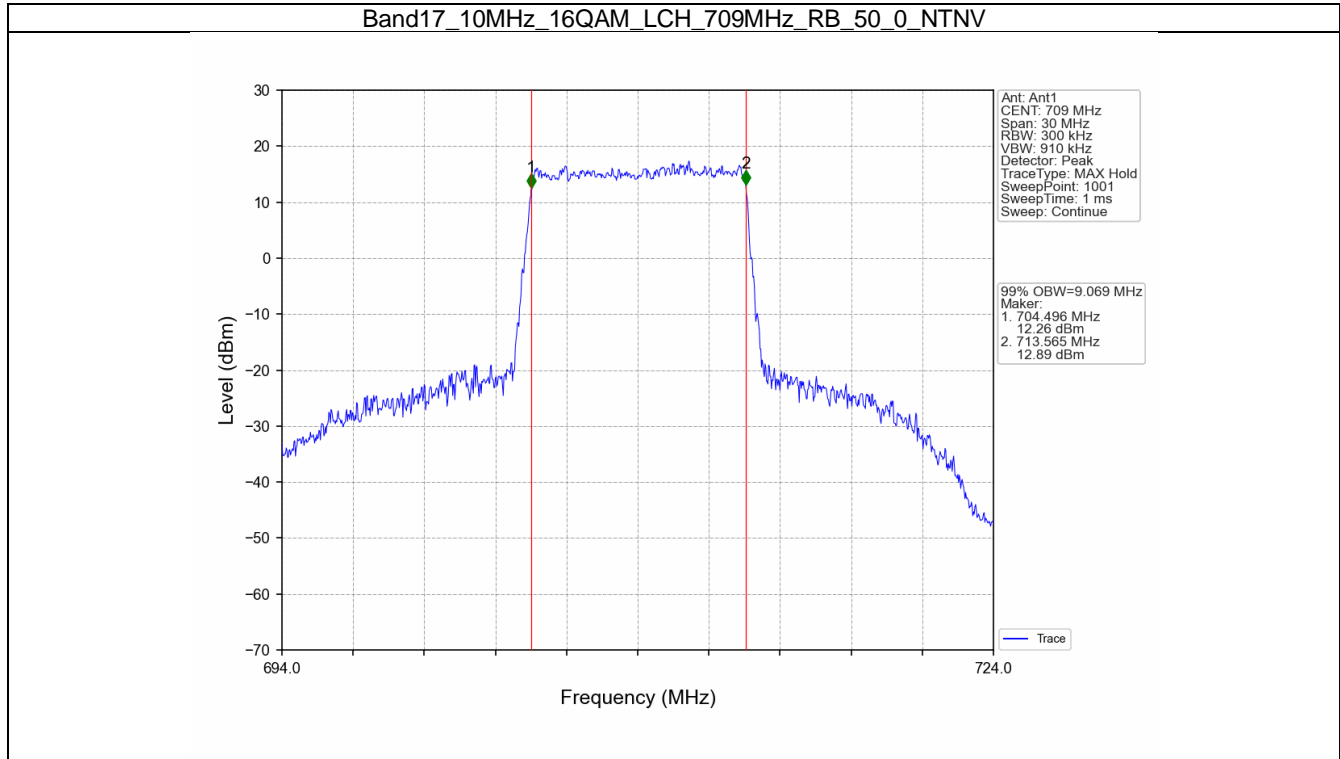
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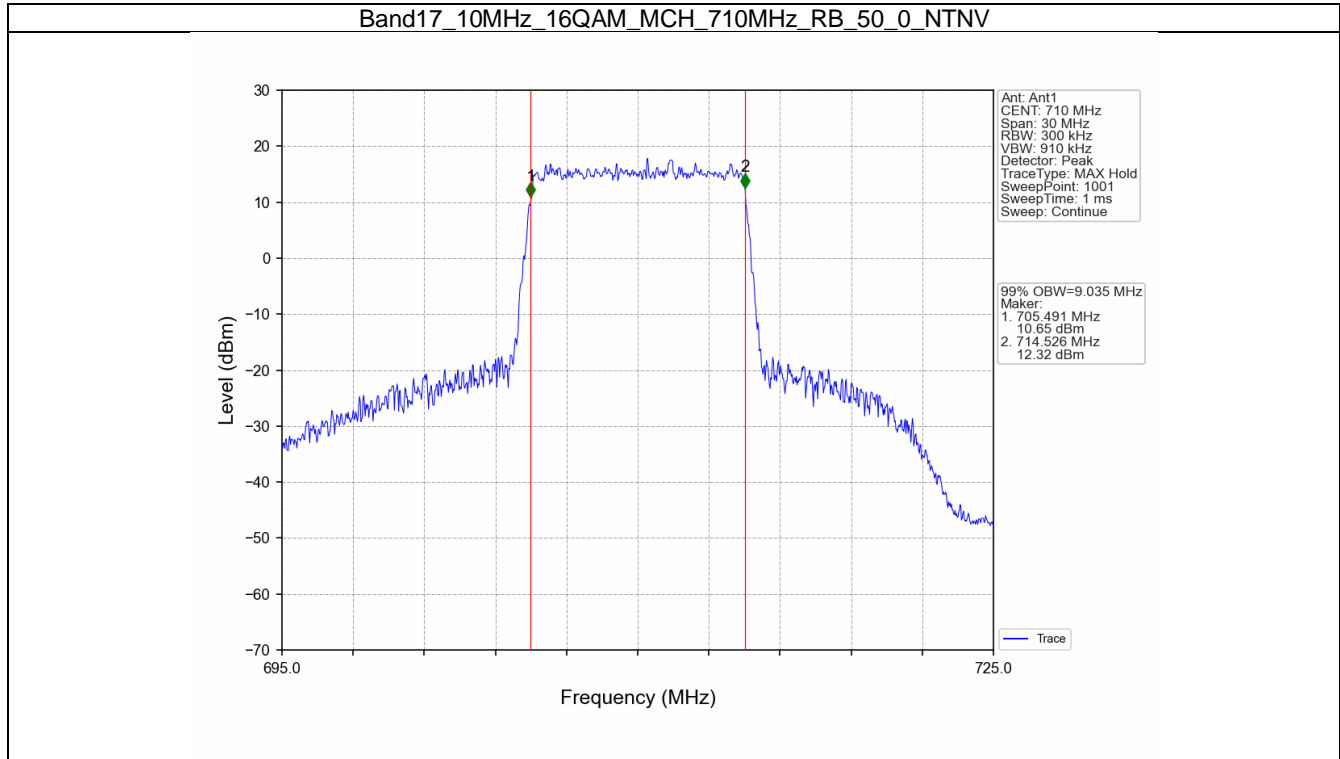
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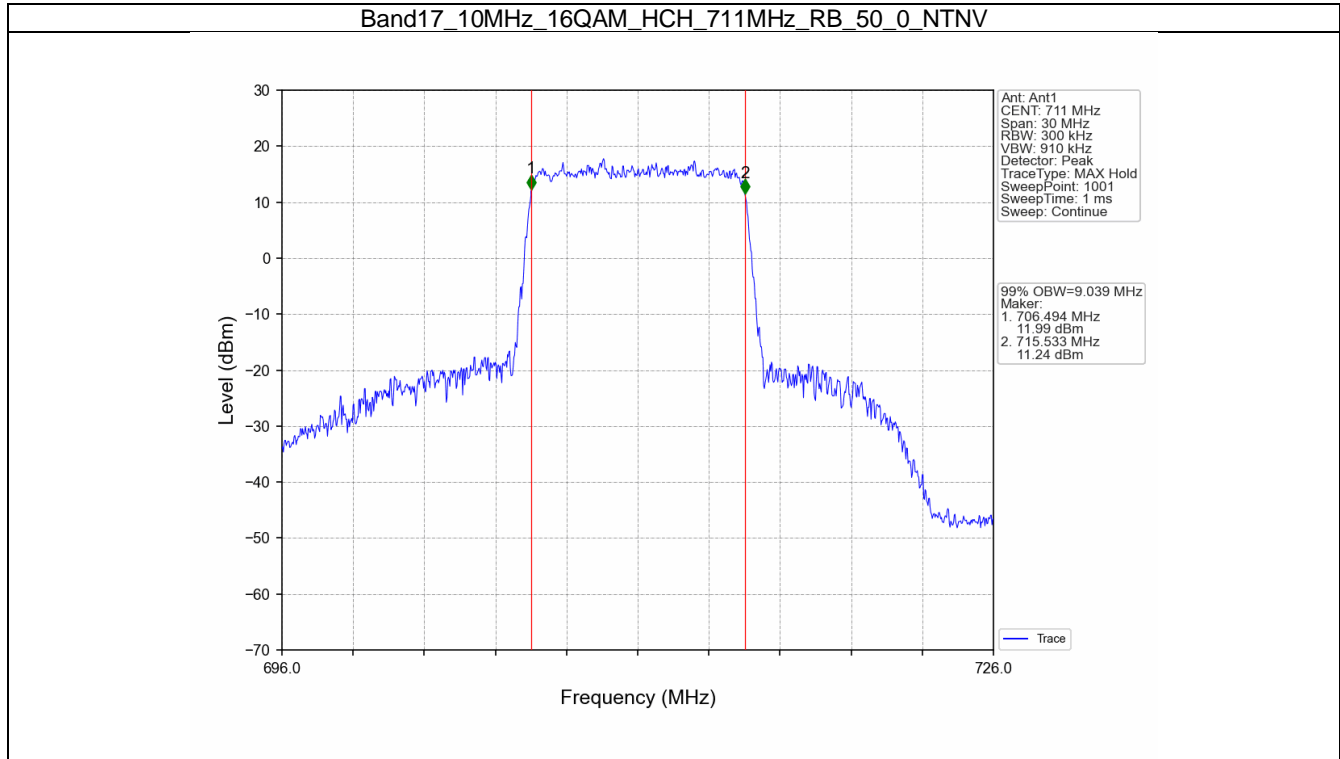
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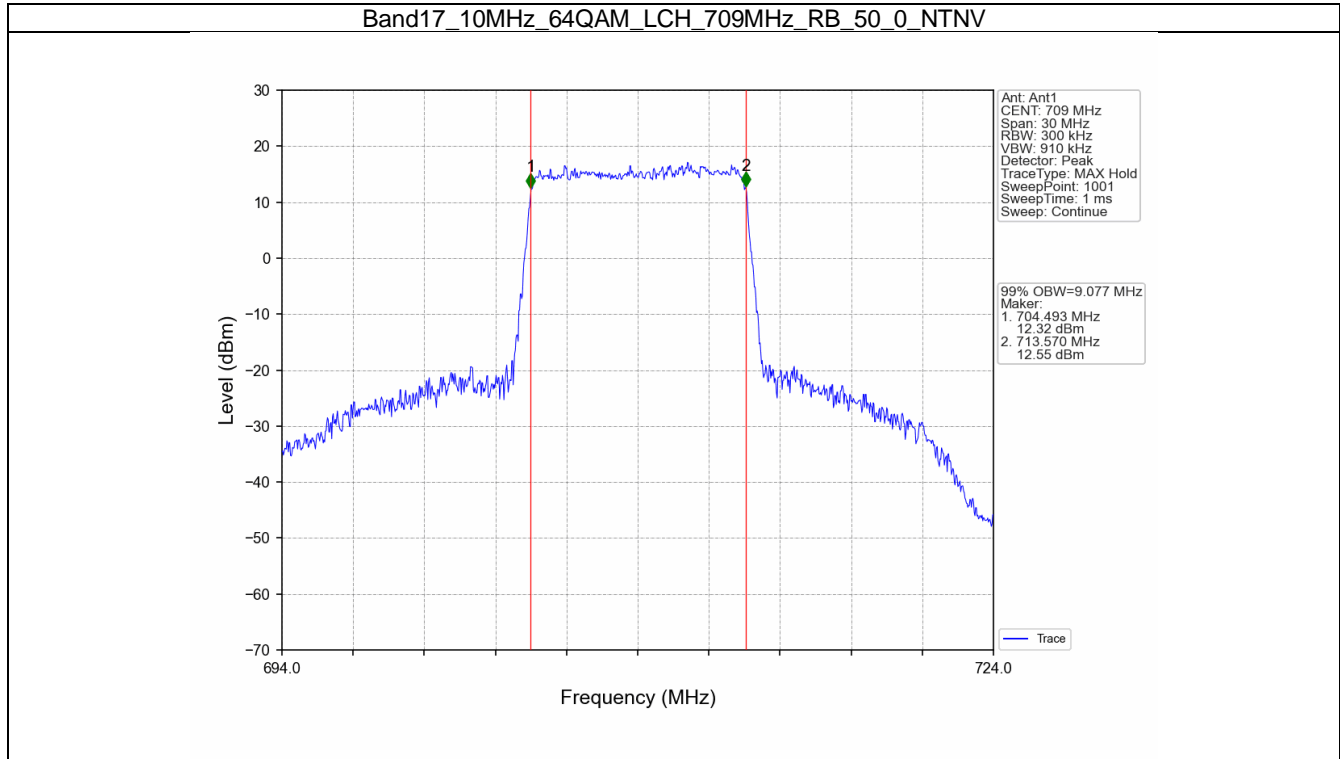
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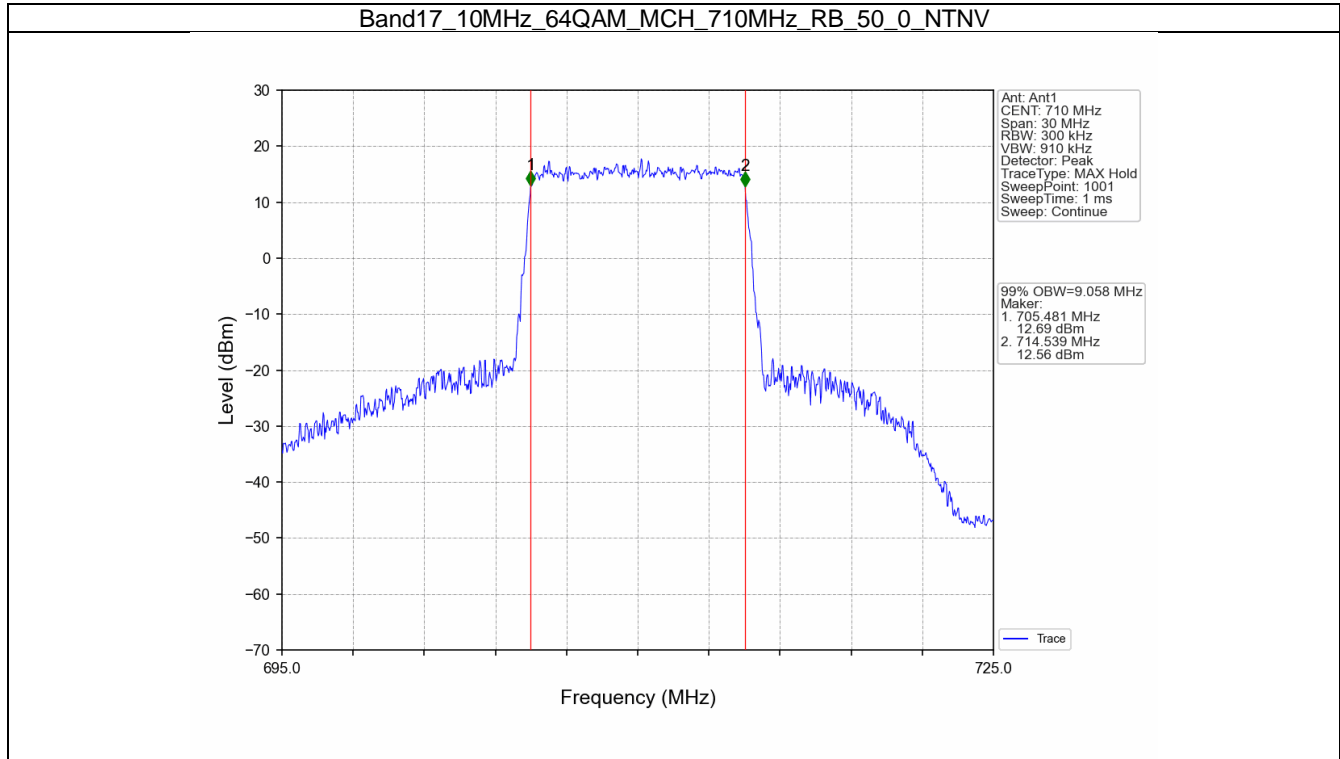
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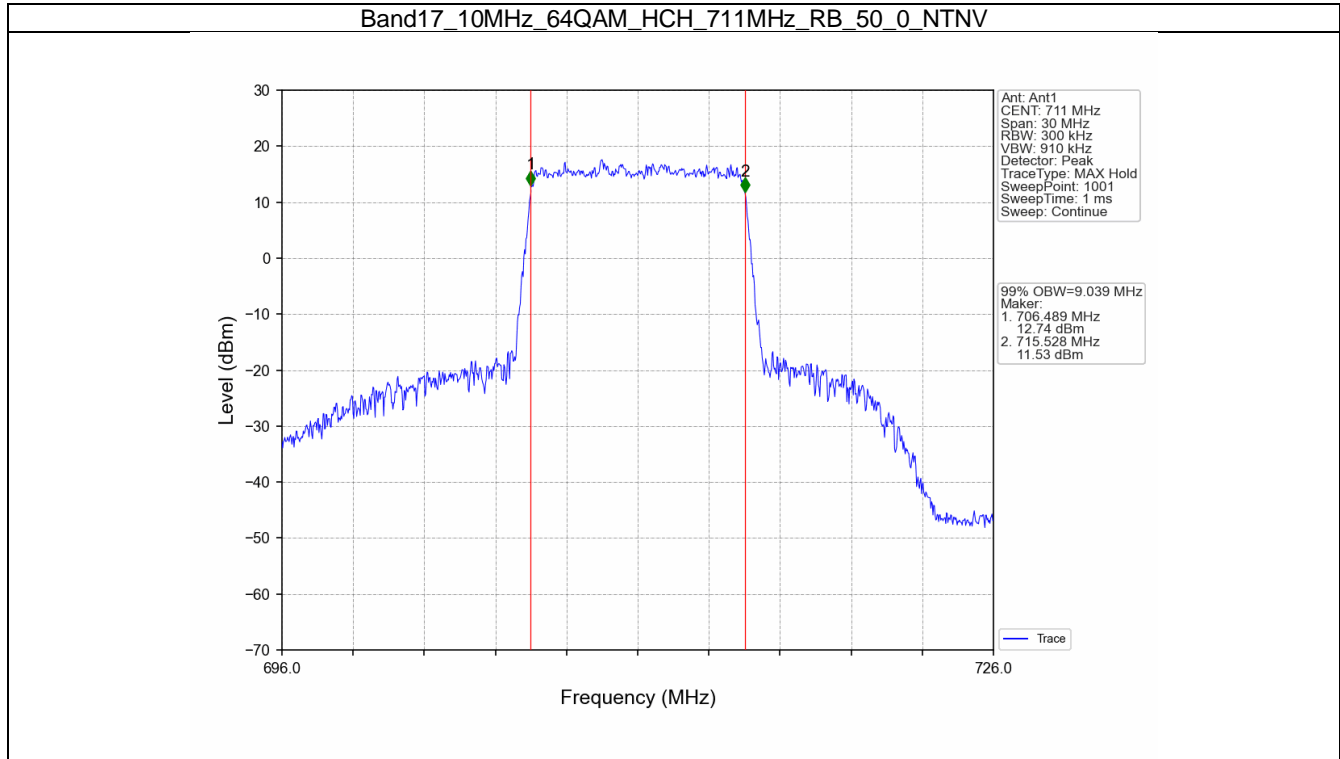
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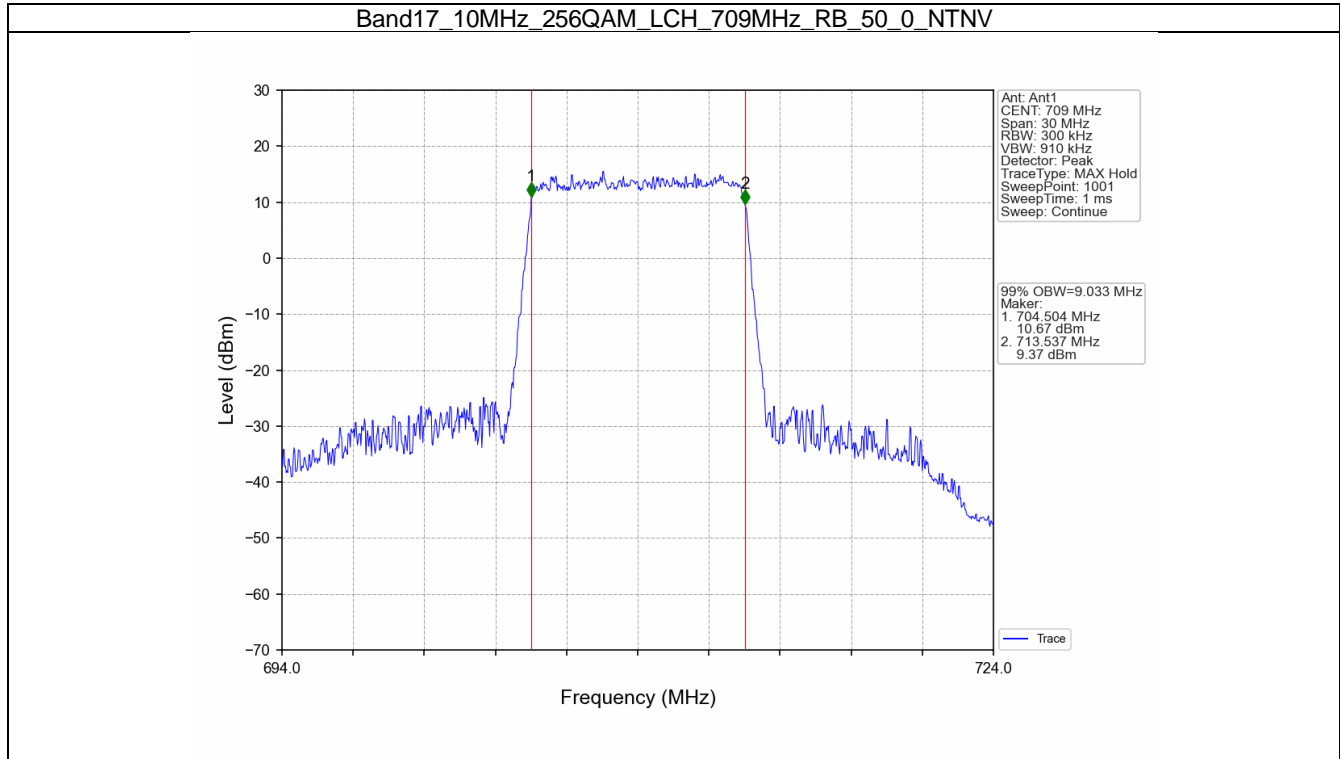
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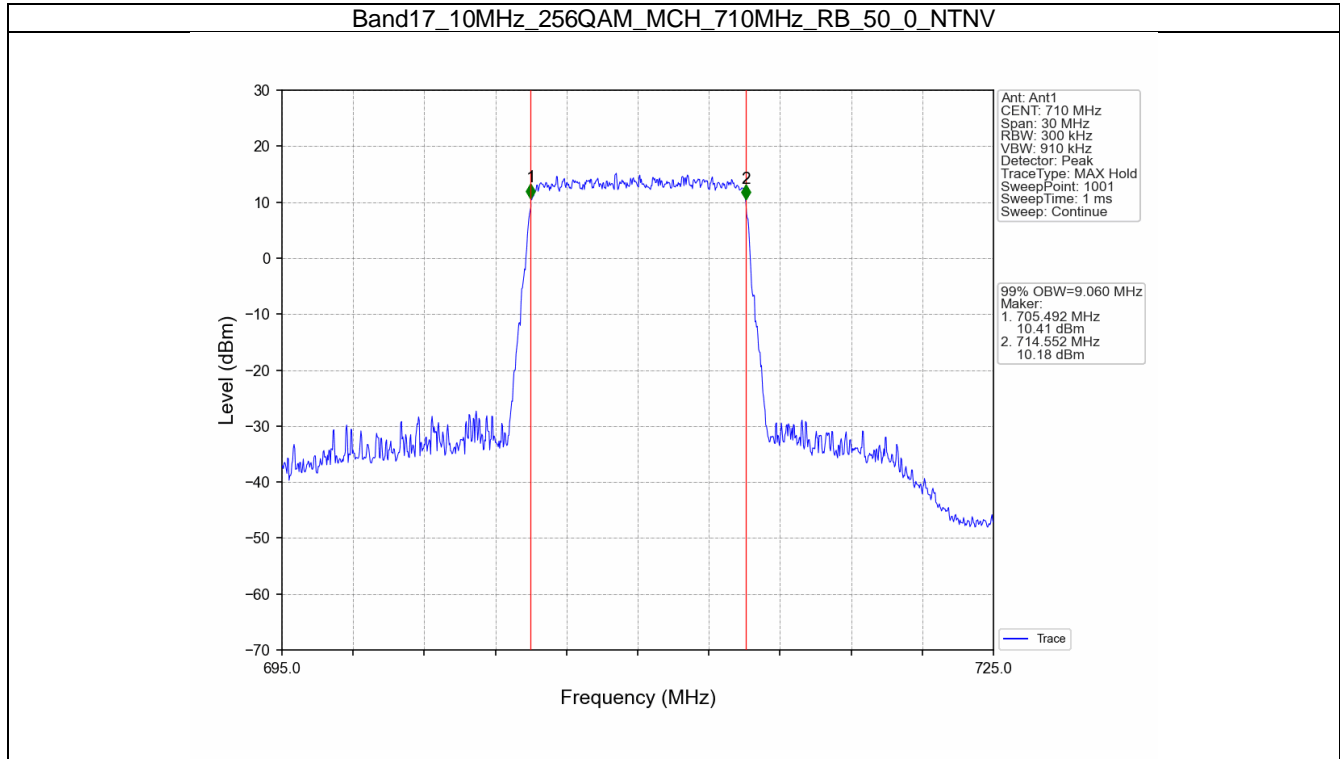
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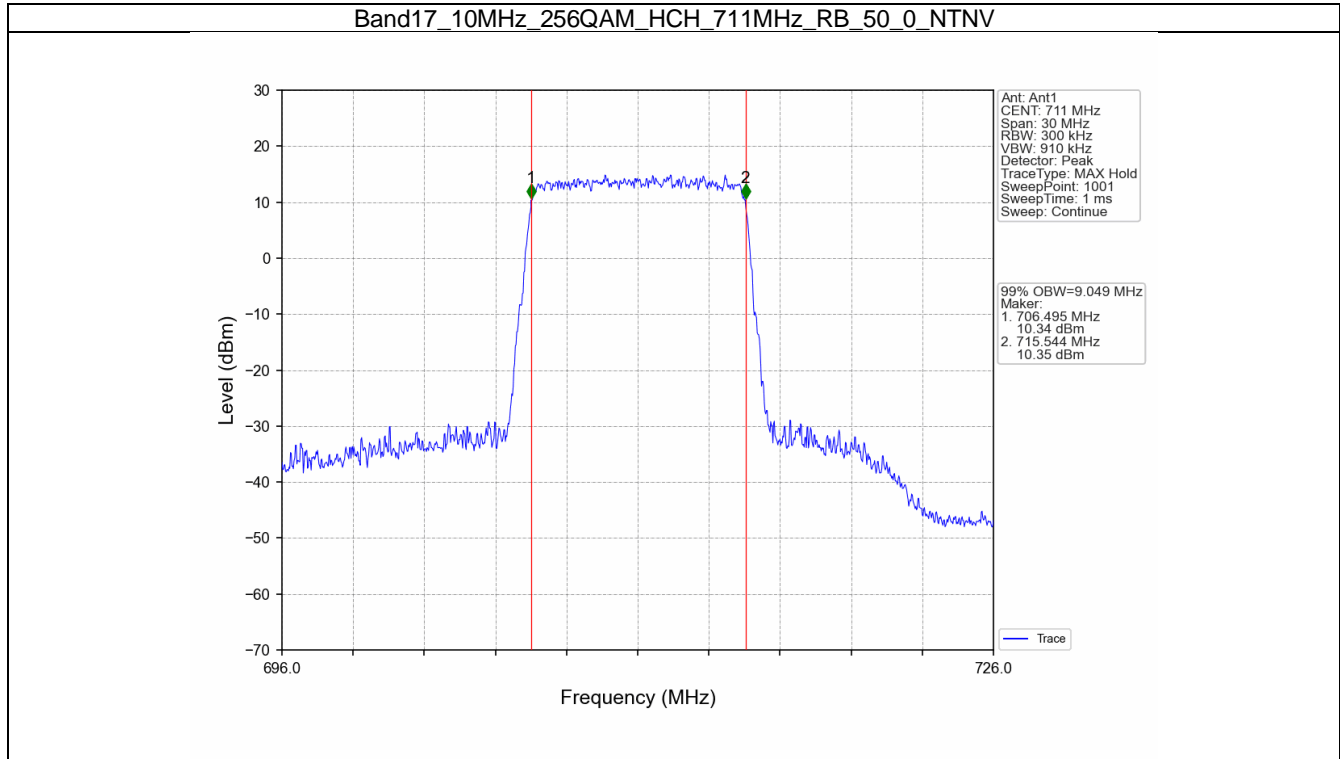
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3.2 Band17_XDB

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	5.054	/	Pass
		710	25	0	5.085	/	Pass
		713.5	25	0	5.086	/	Pass
	16QAM	706.5	25	0	5.084	/	Pass
		710	25	0	5.064	/	Pass
		713.5	25	0	5.071	/	Pass
	64QAM	706.5	25	0	5.096	/	Pass
		710	25	0	5.008	/	Pass
		713.5	25	0	5.028	/	Pass
	256QAM	706.5	25	0	5.079	/	Pass
		710	25	0	5.072	/	Pass
		713.5	25	0	5.099	/	Pass
10	QPSK	709	50	0	10.009	/	Pass
		710	50	0	10.030	/	Pass
		711	50	0	10.034	/	Pass
	16QAM	709	50	0	9.925	/	Pass
		710	50	0	9.959	/	Pass
		711	50	0	9.969	/	Pass
	64QAM	709	50	0	9.981	/	Pass
		710	50	0	9.902	/	Pass
		711	50	0	9.913	/	Pass
	256QAM	709	50	0	9.979	/	Pass
		710	50	0	9.892	/	Pass
		711	50	0	10.046	/	Pass

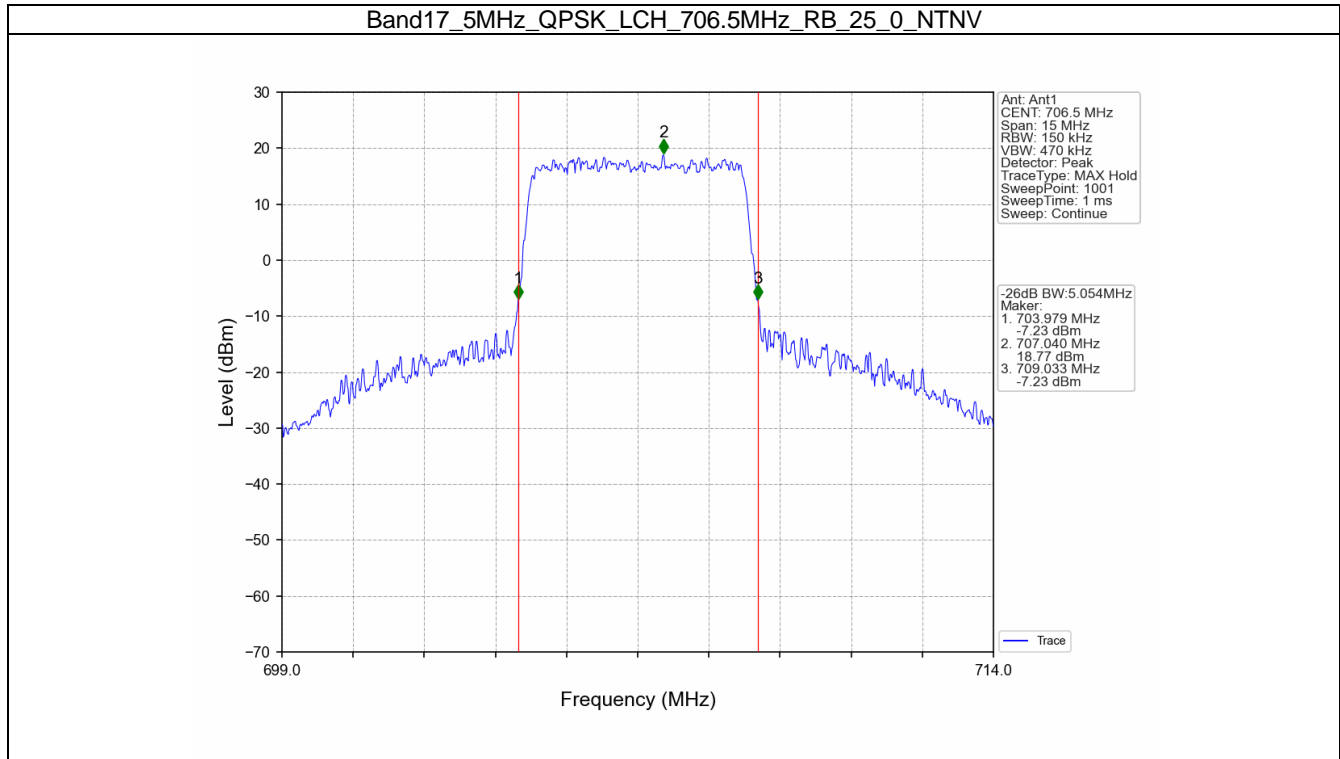


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3.2.2 Test Graph



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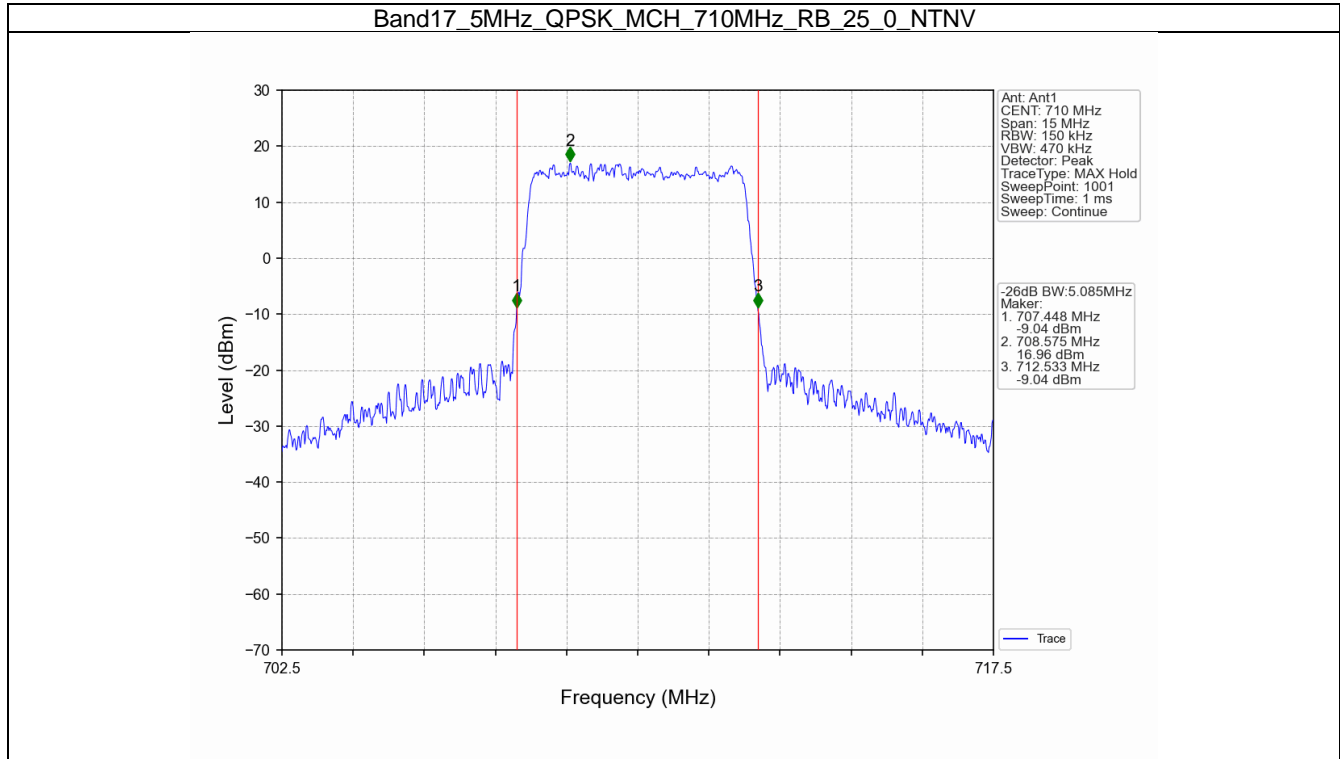
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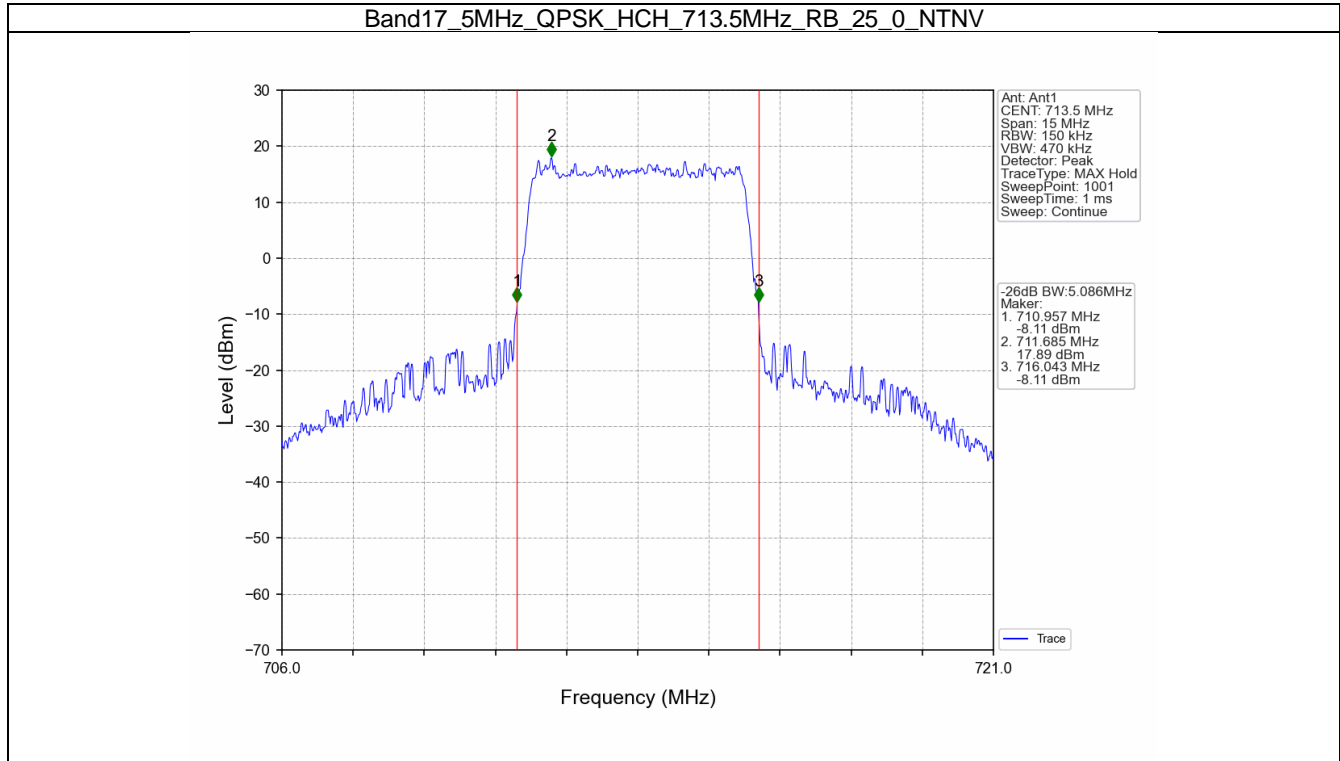
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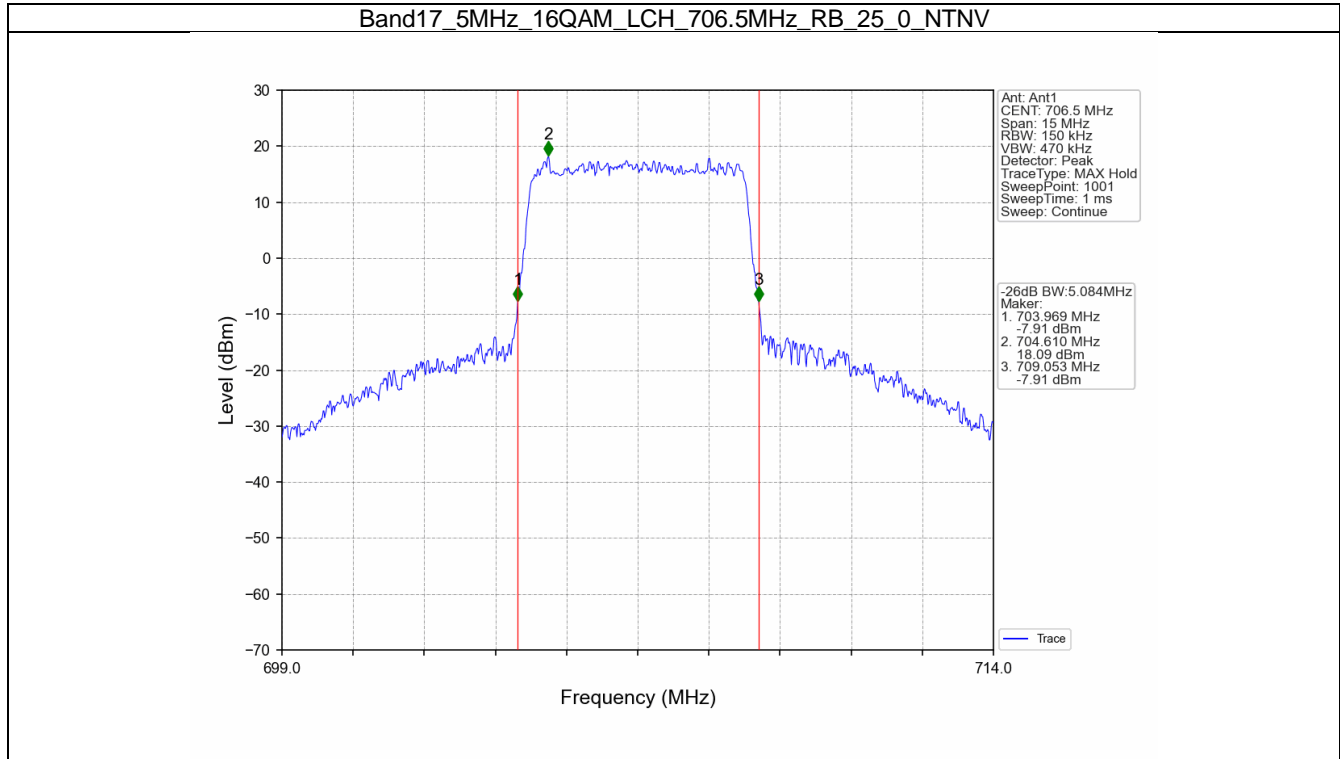


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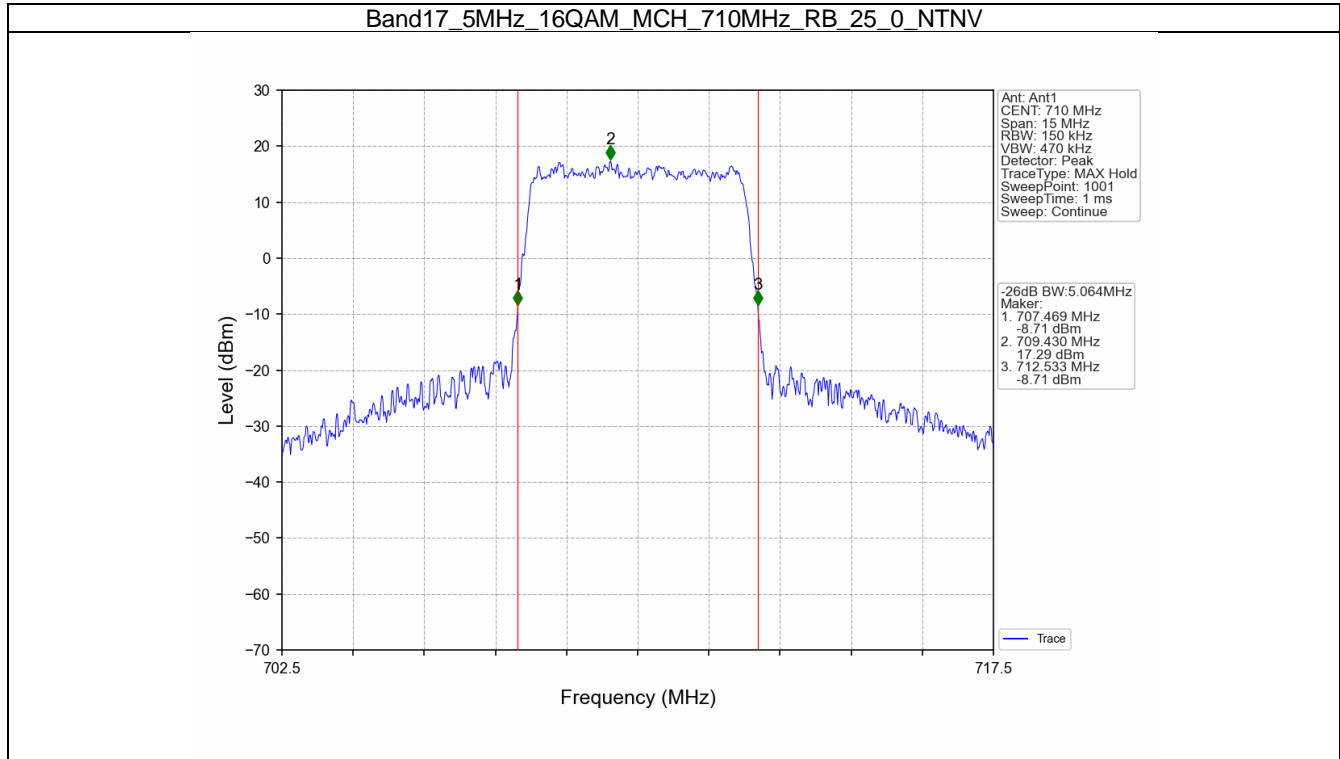
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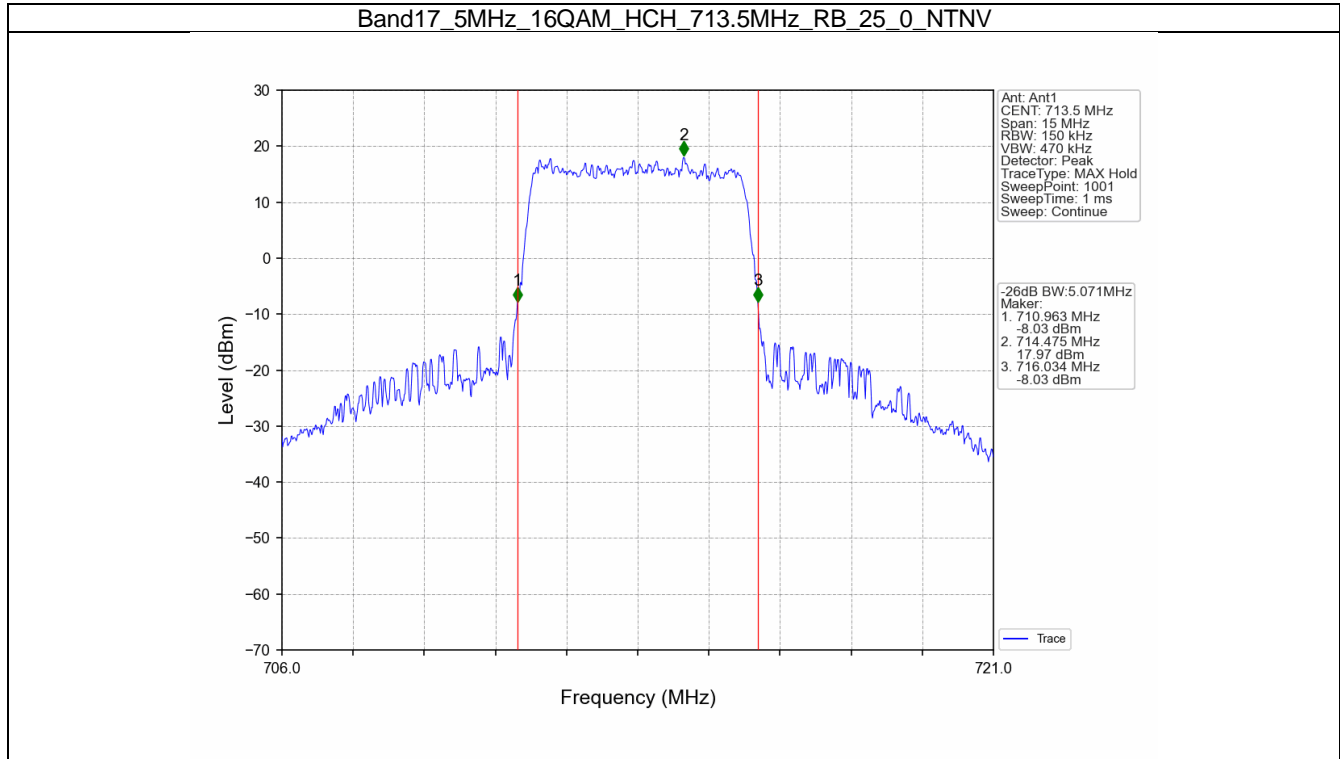


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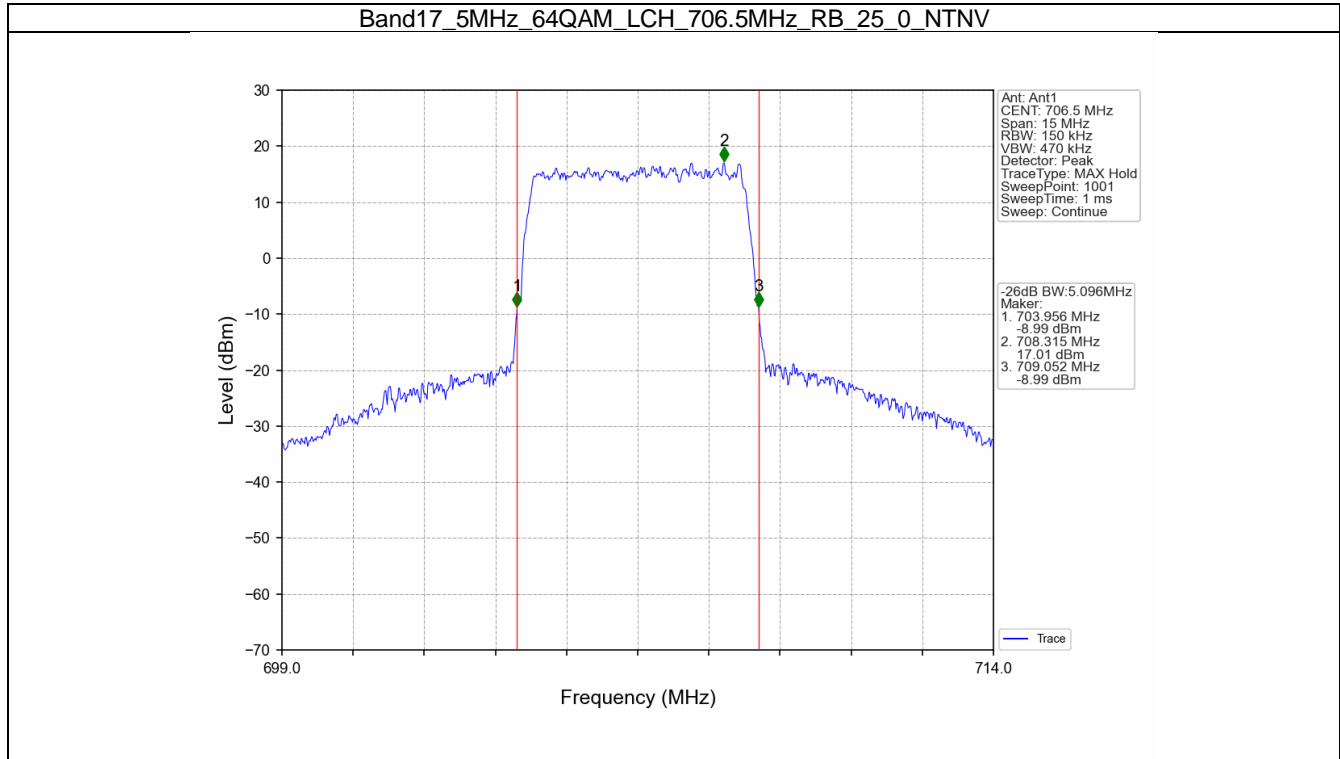
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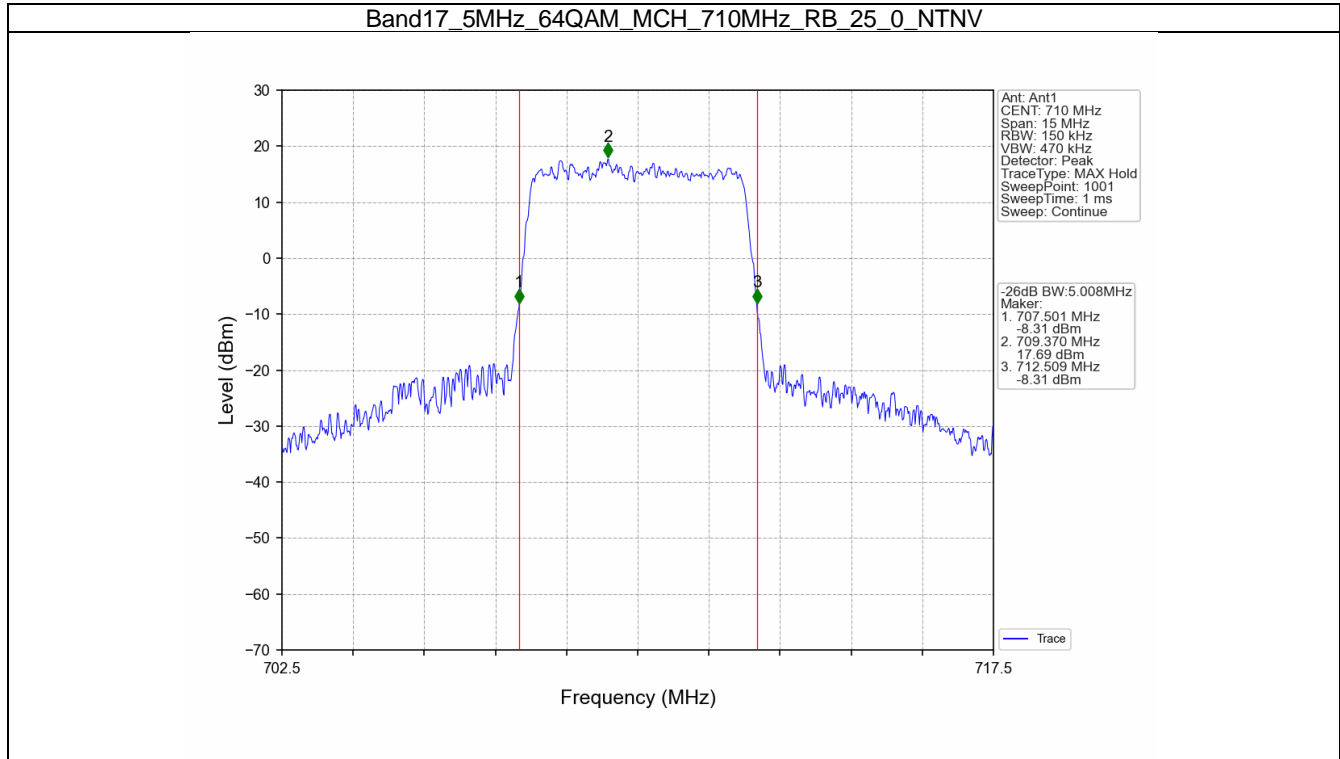
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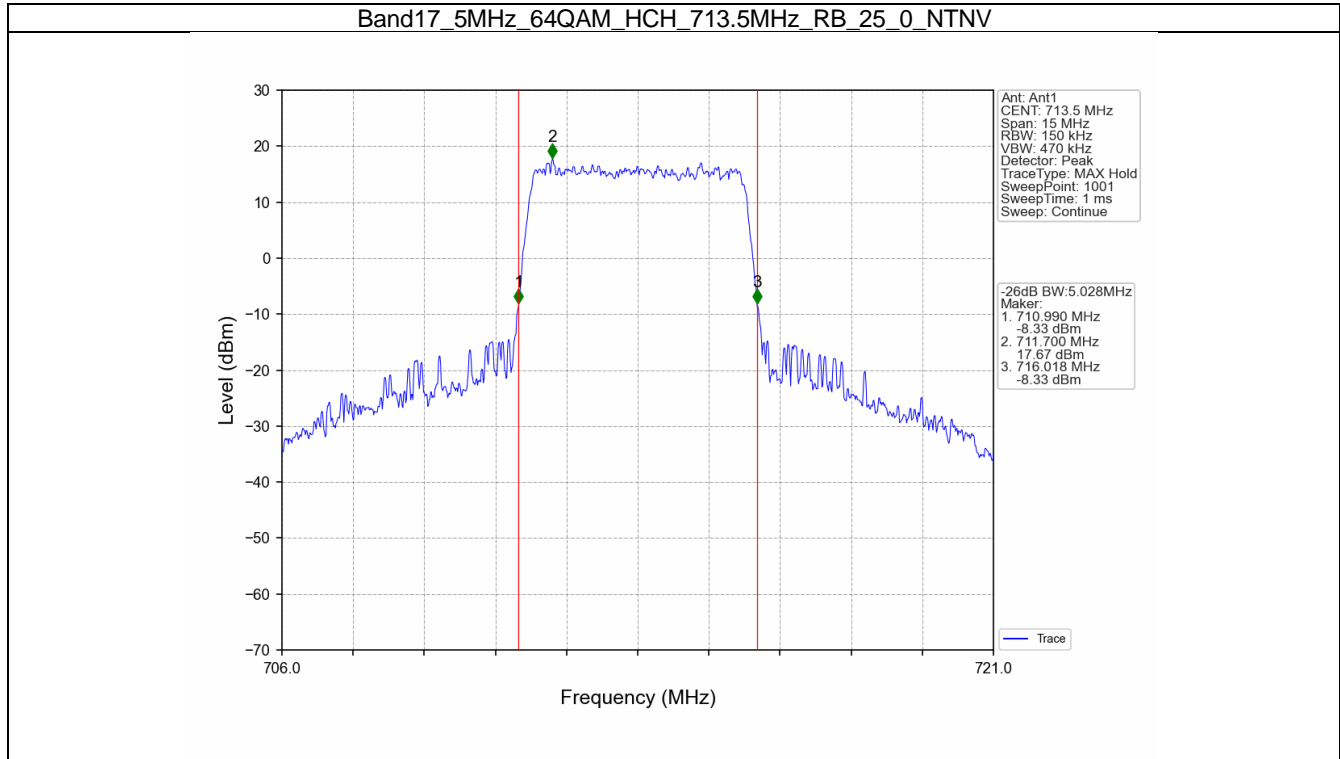
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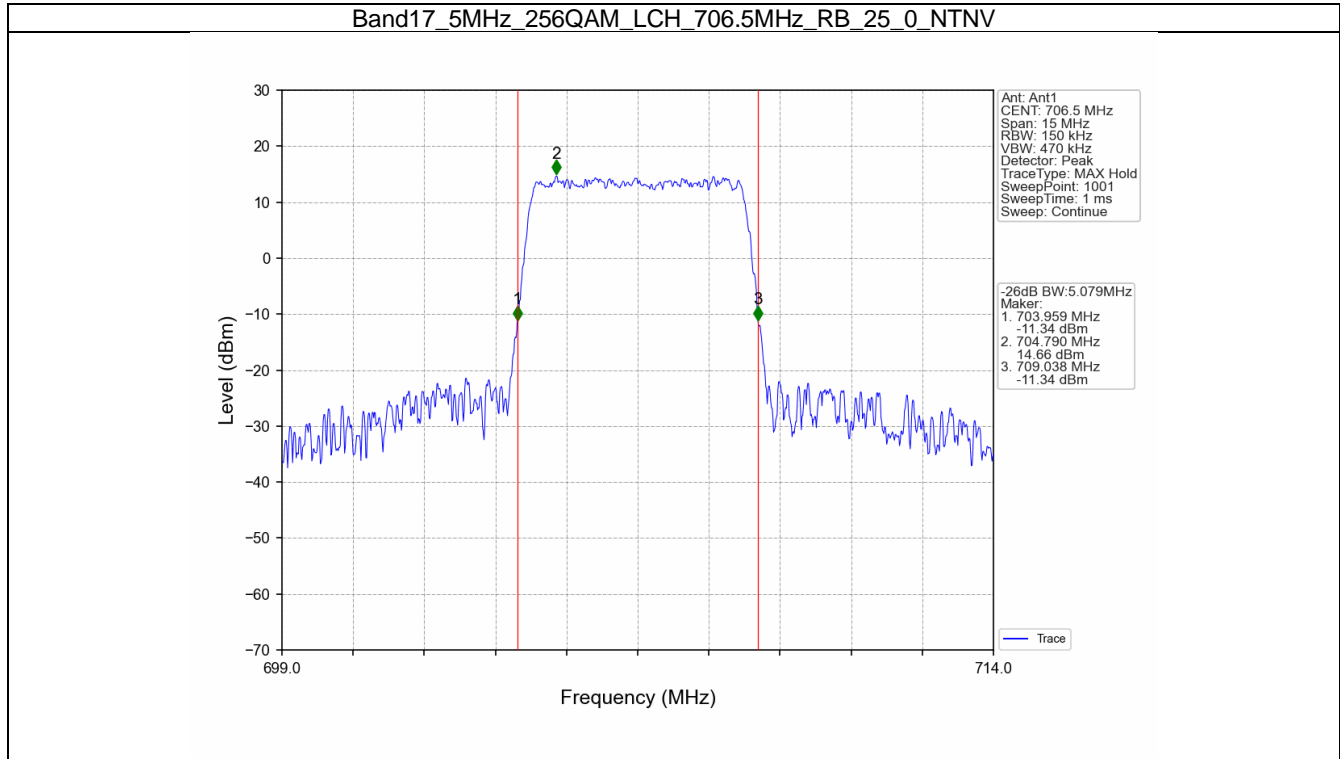
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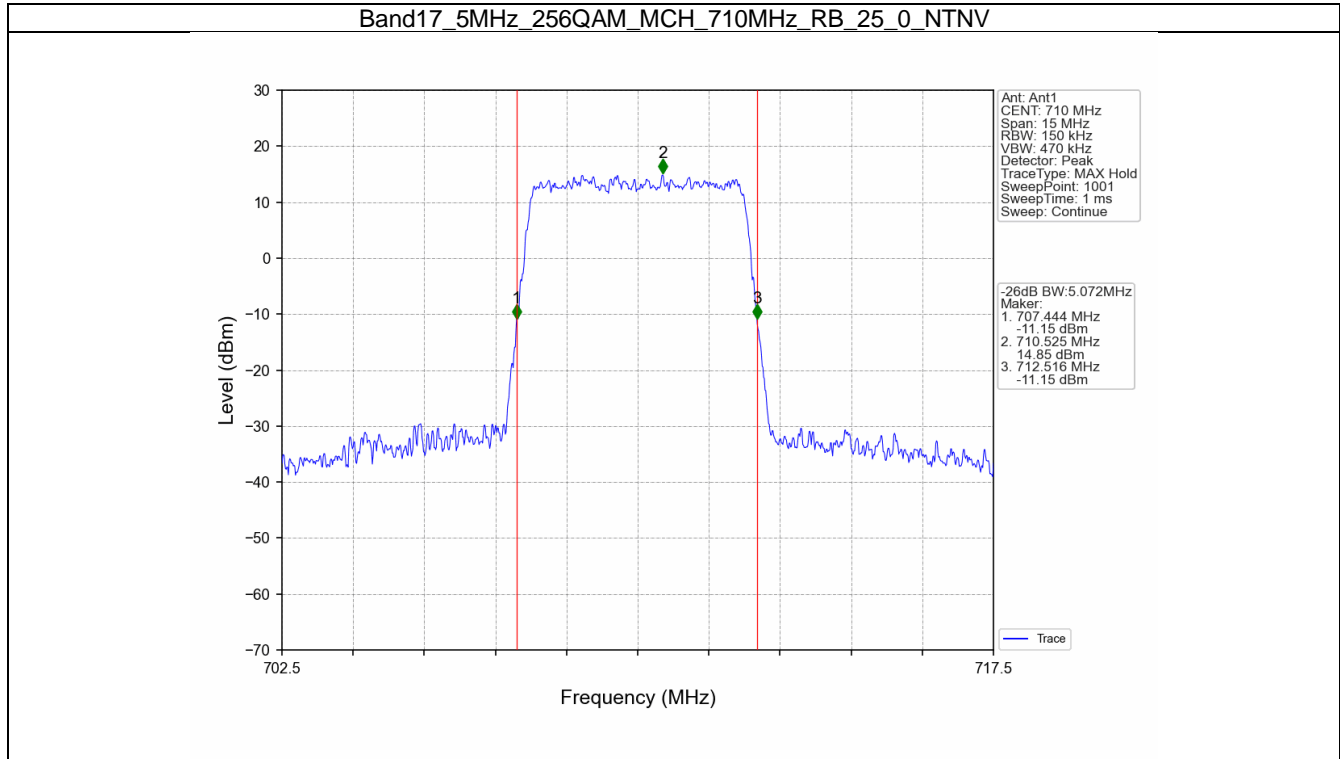


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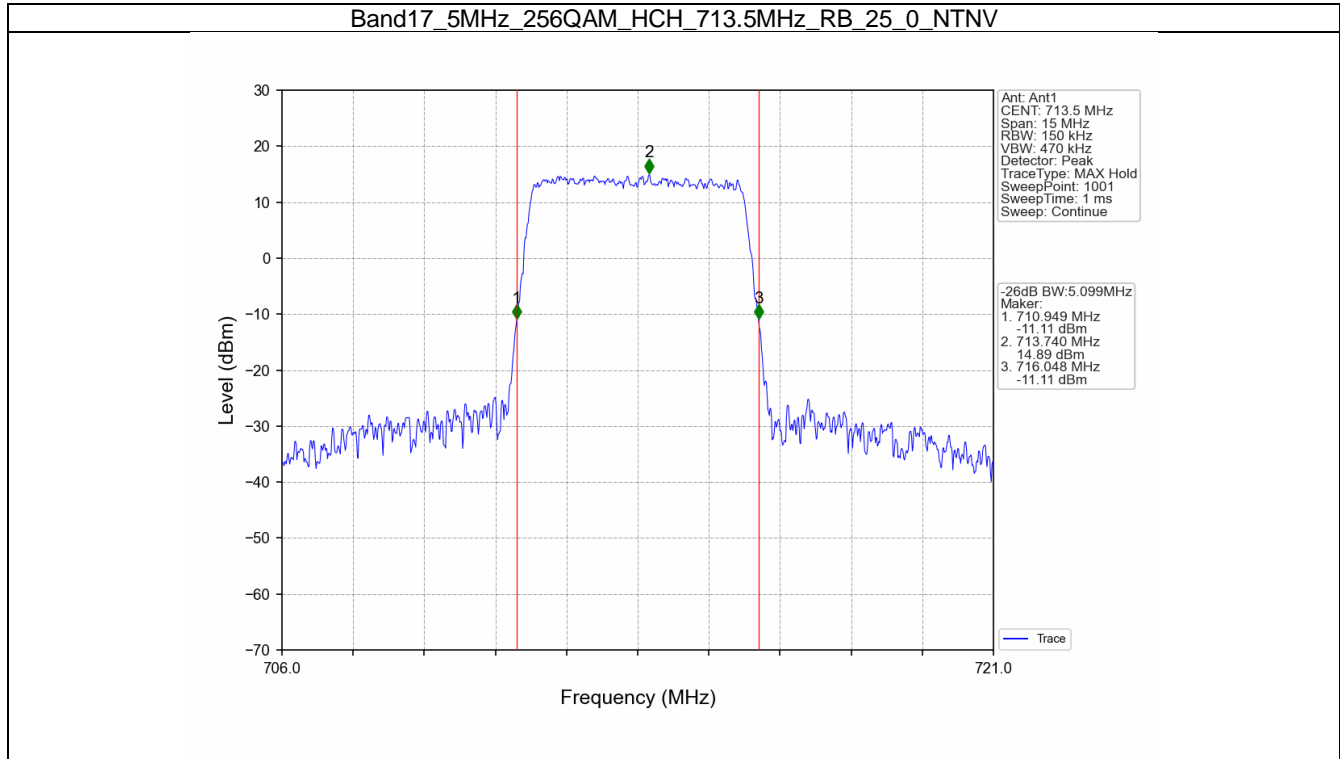
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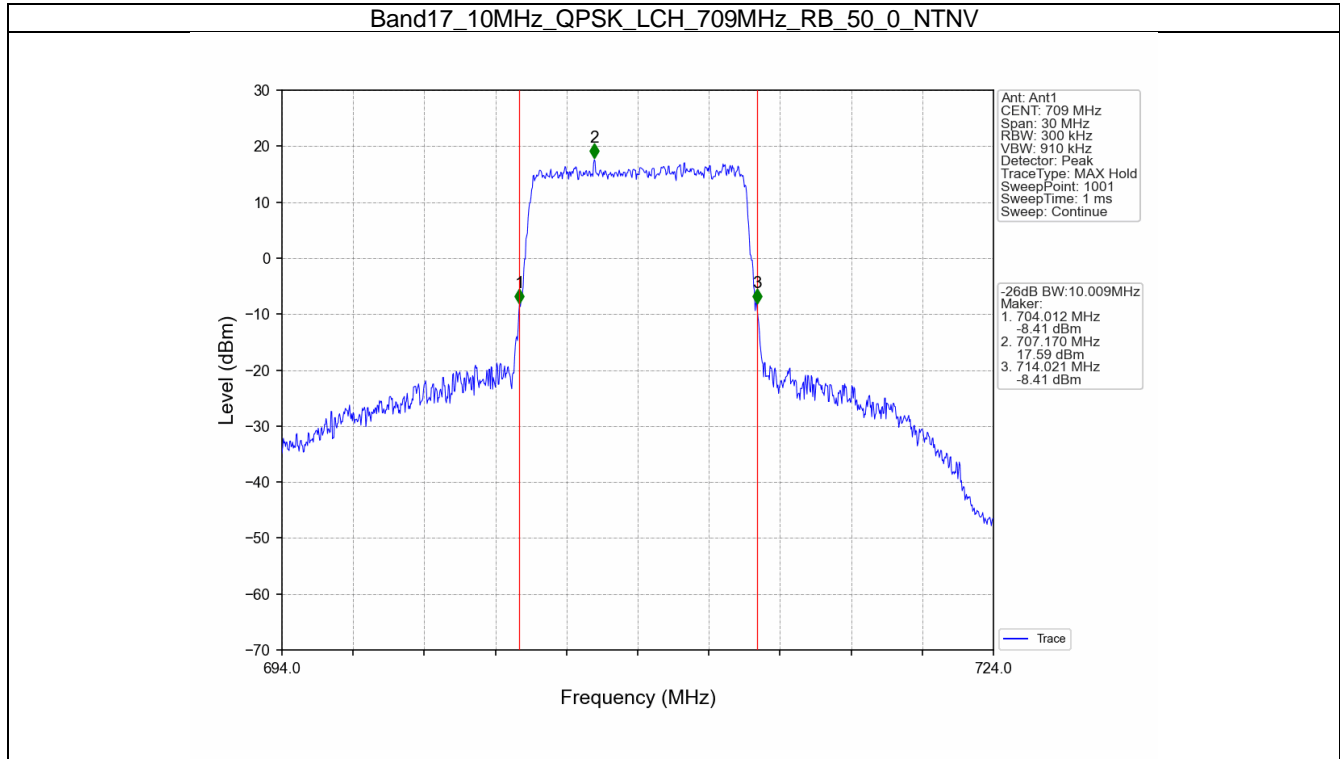
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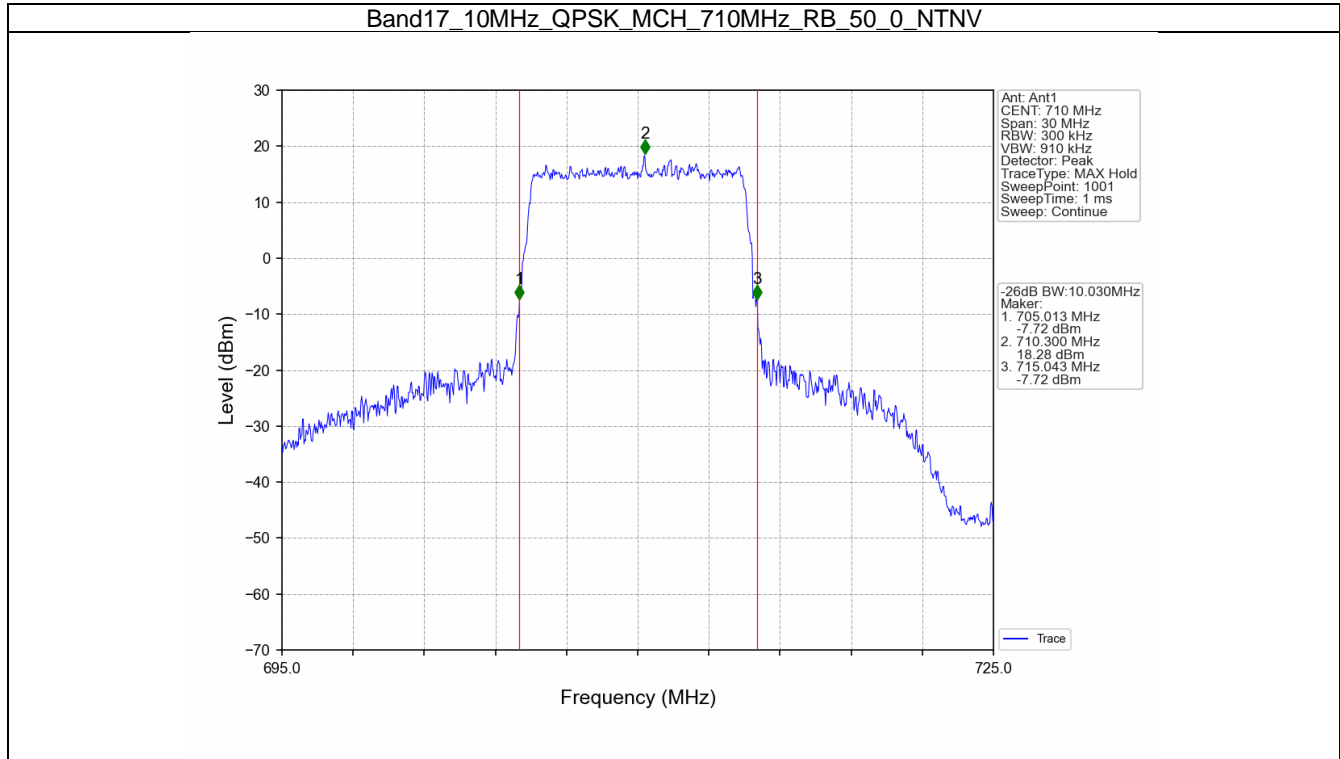
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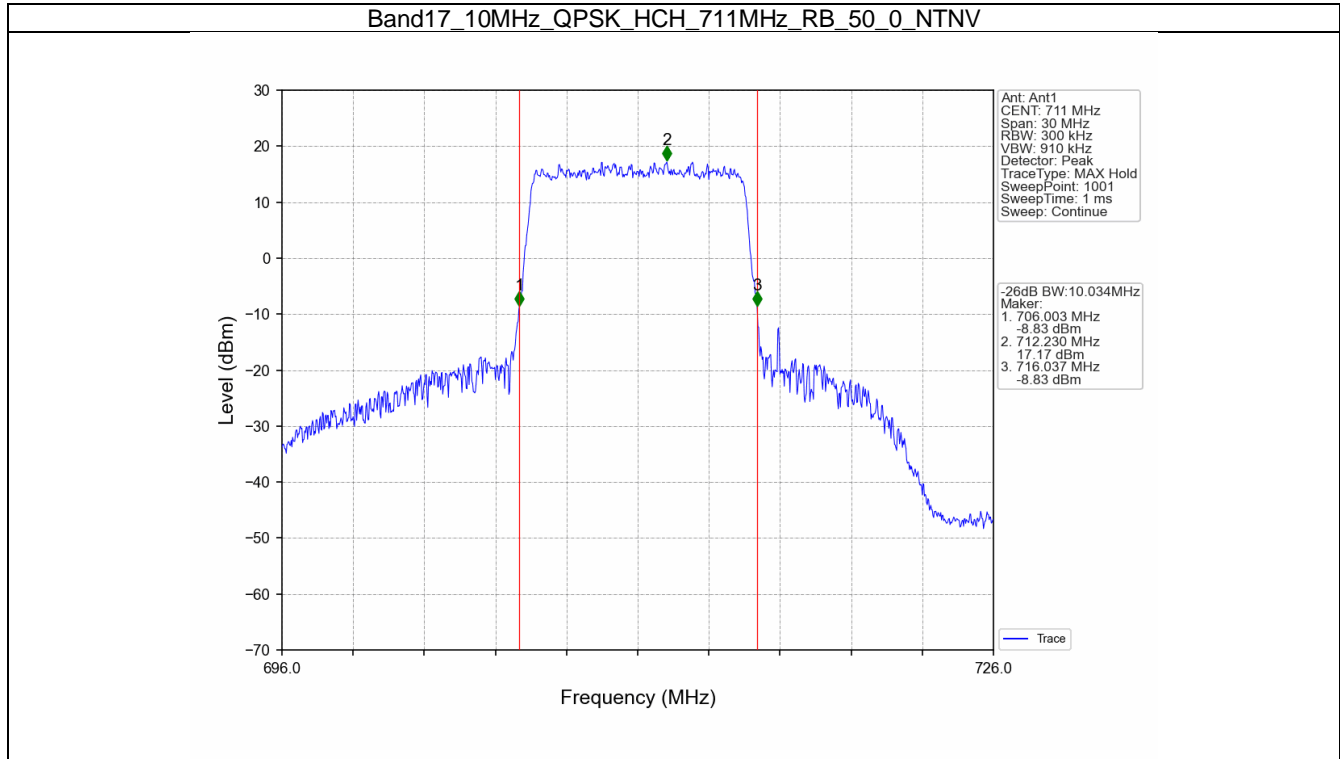
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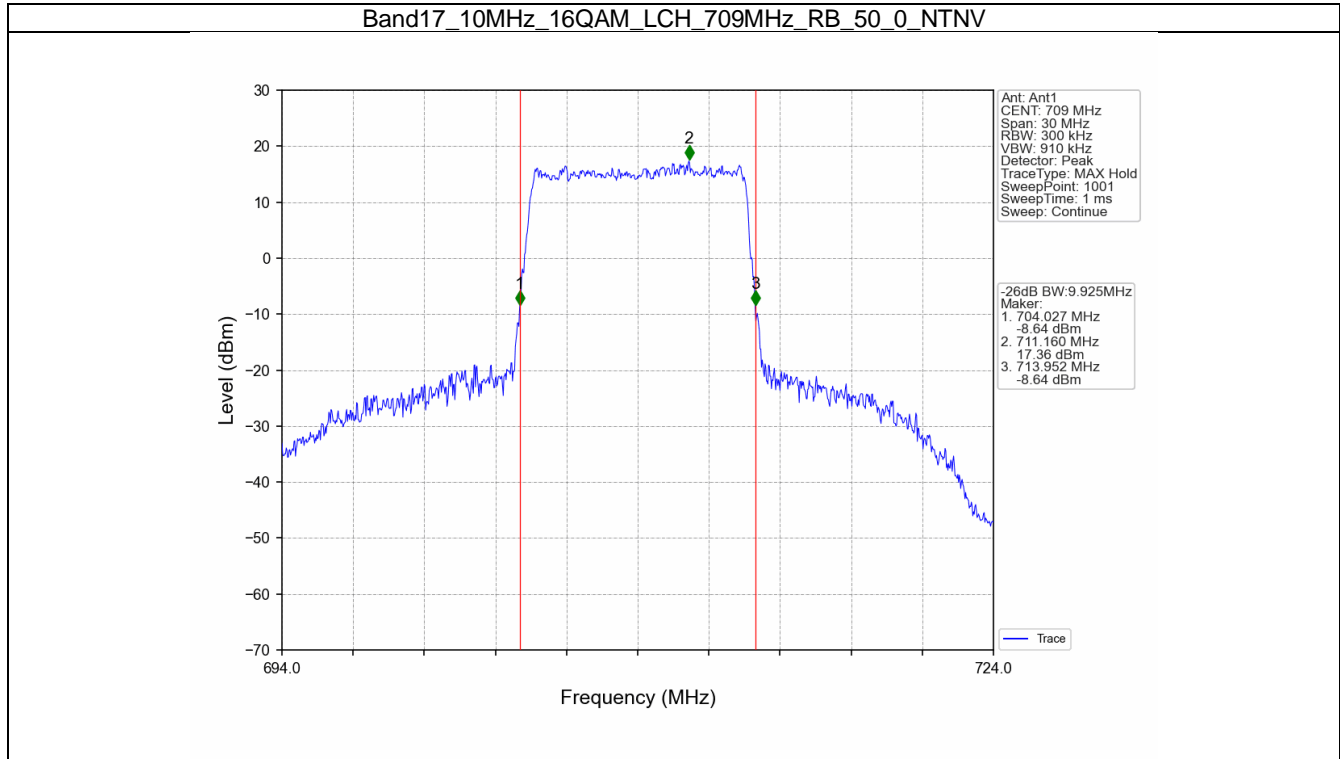
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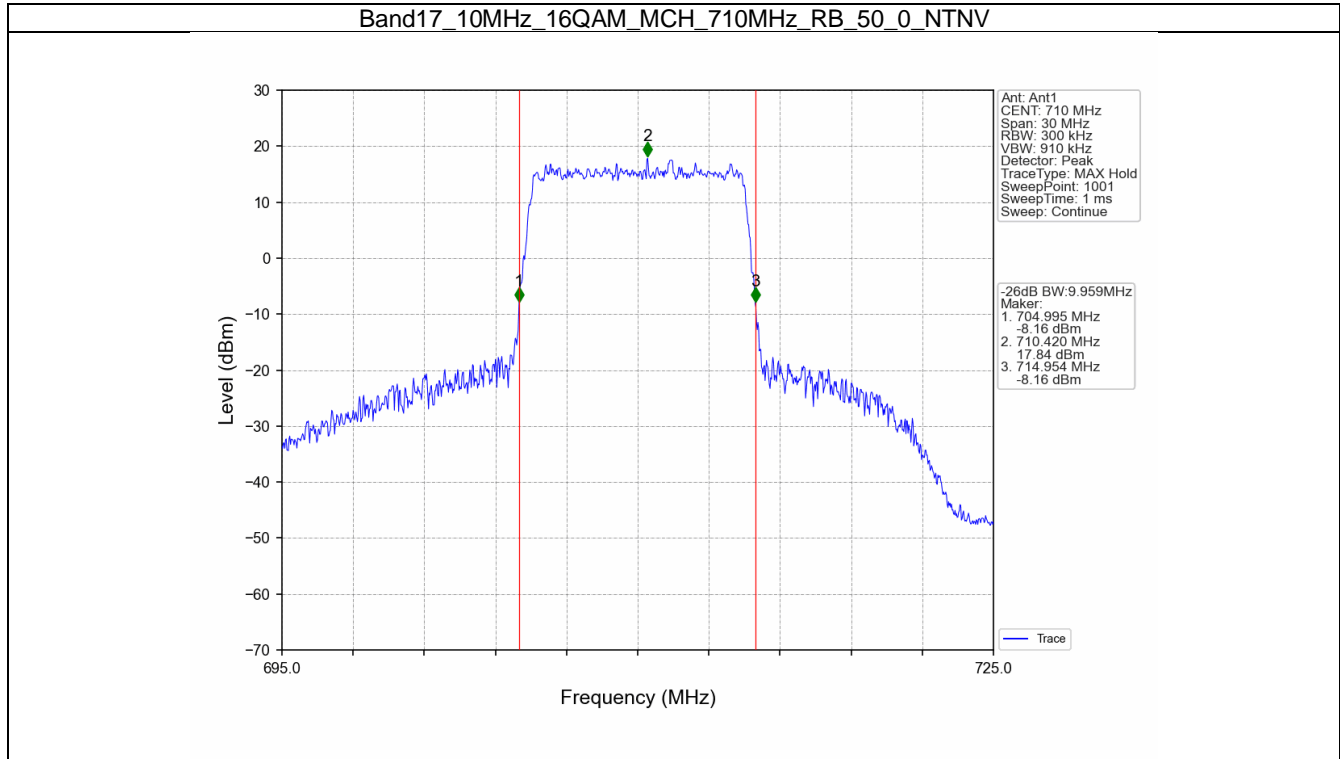
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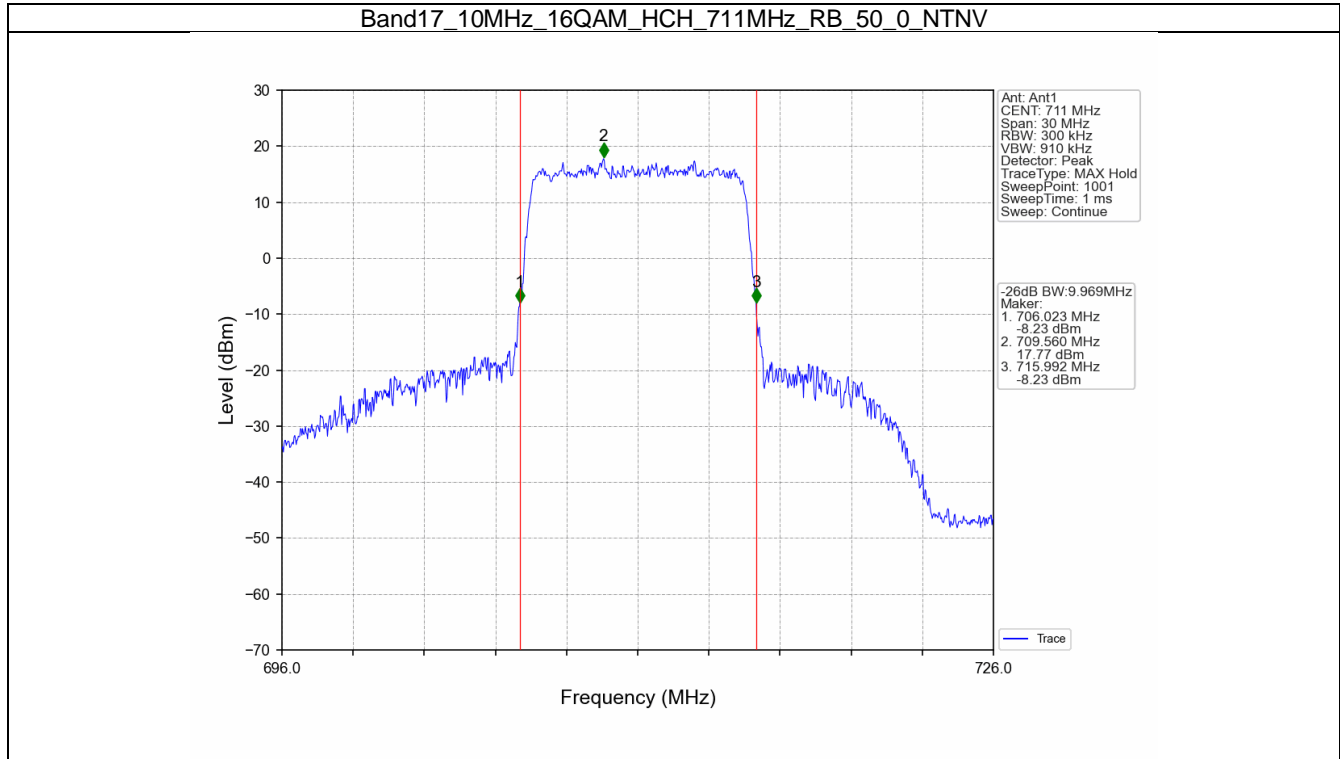
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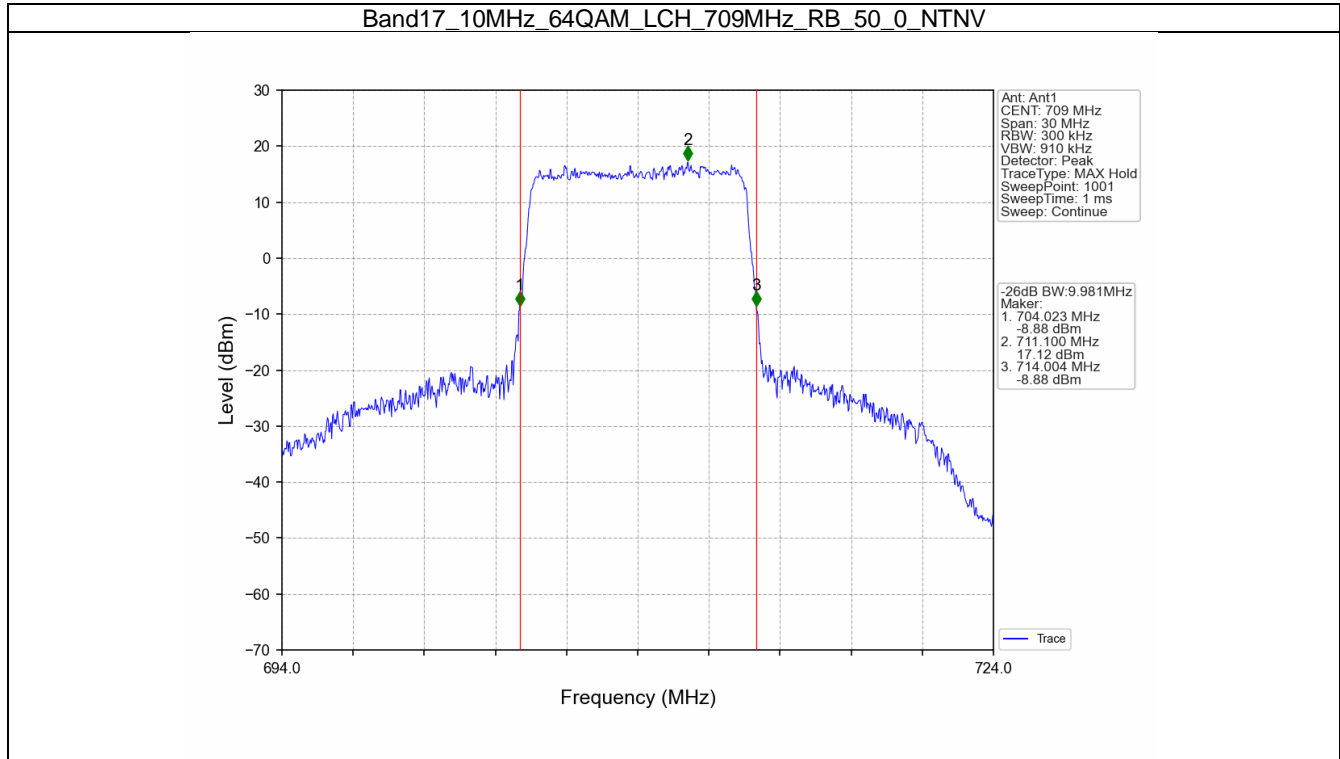


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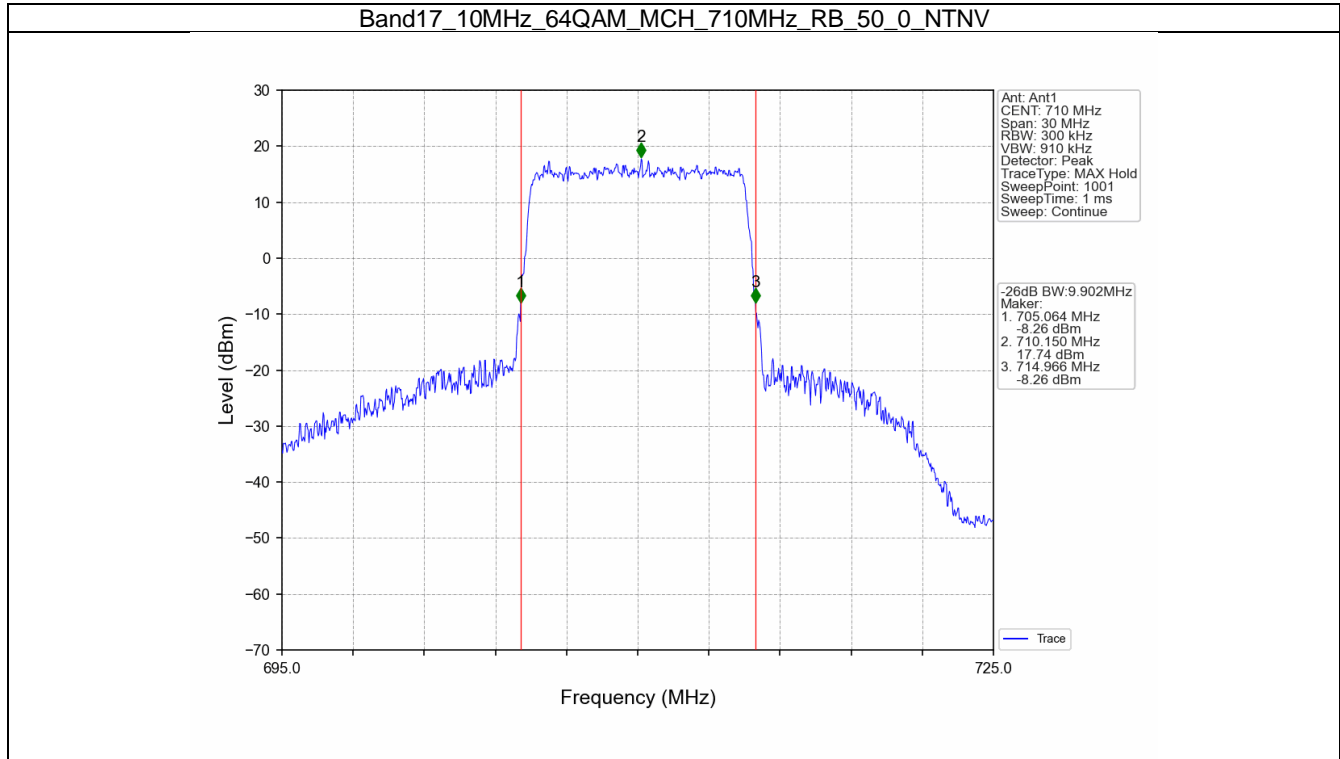
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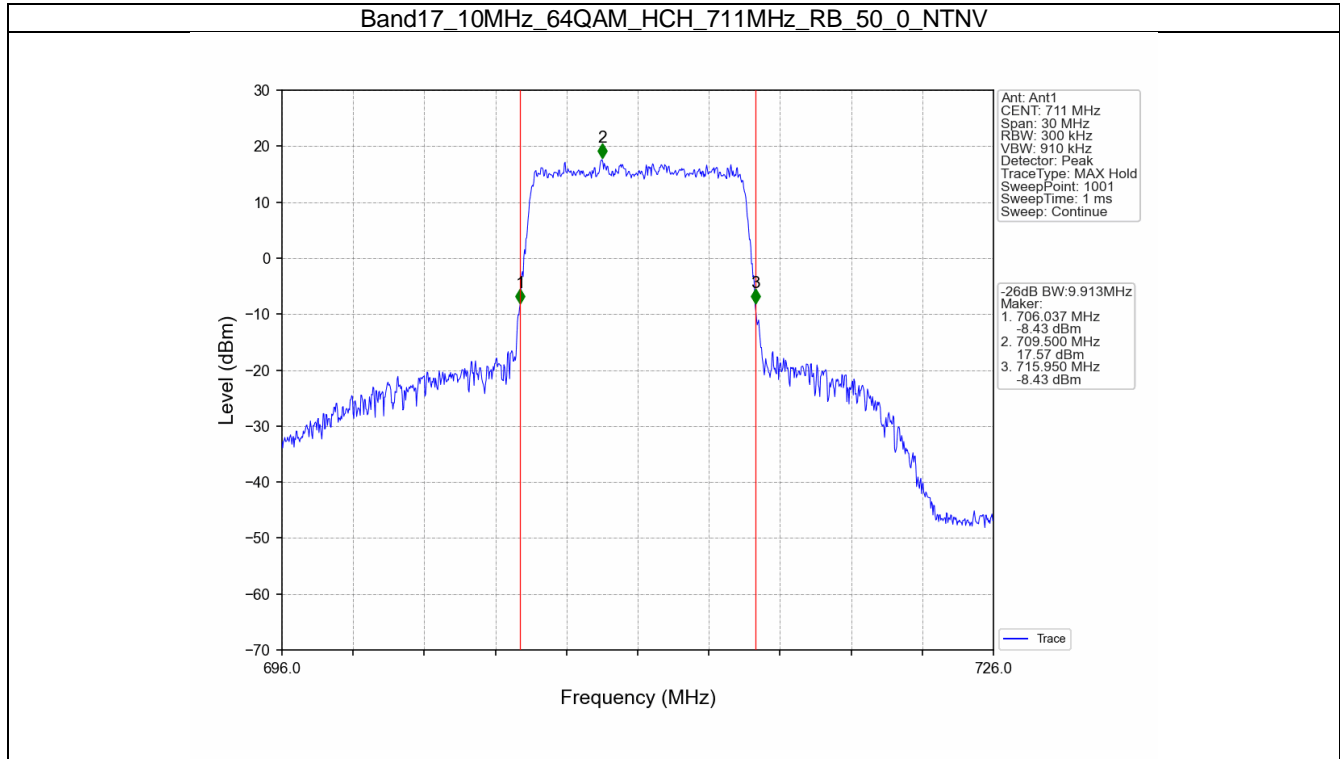
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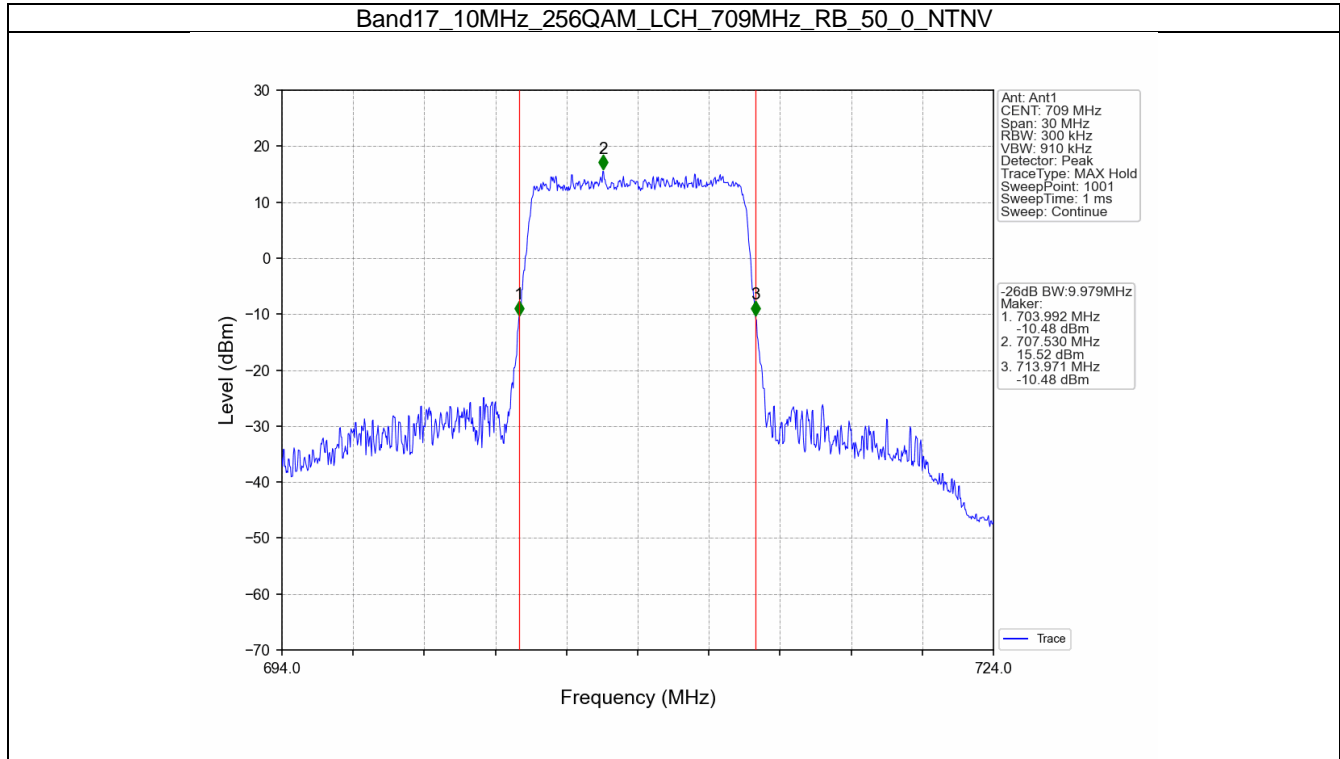
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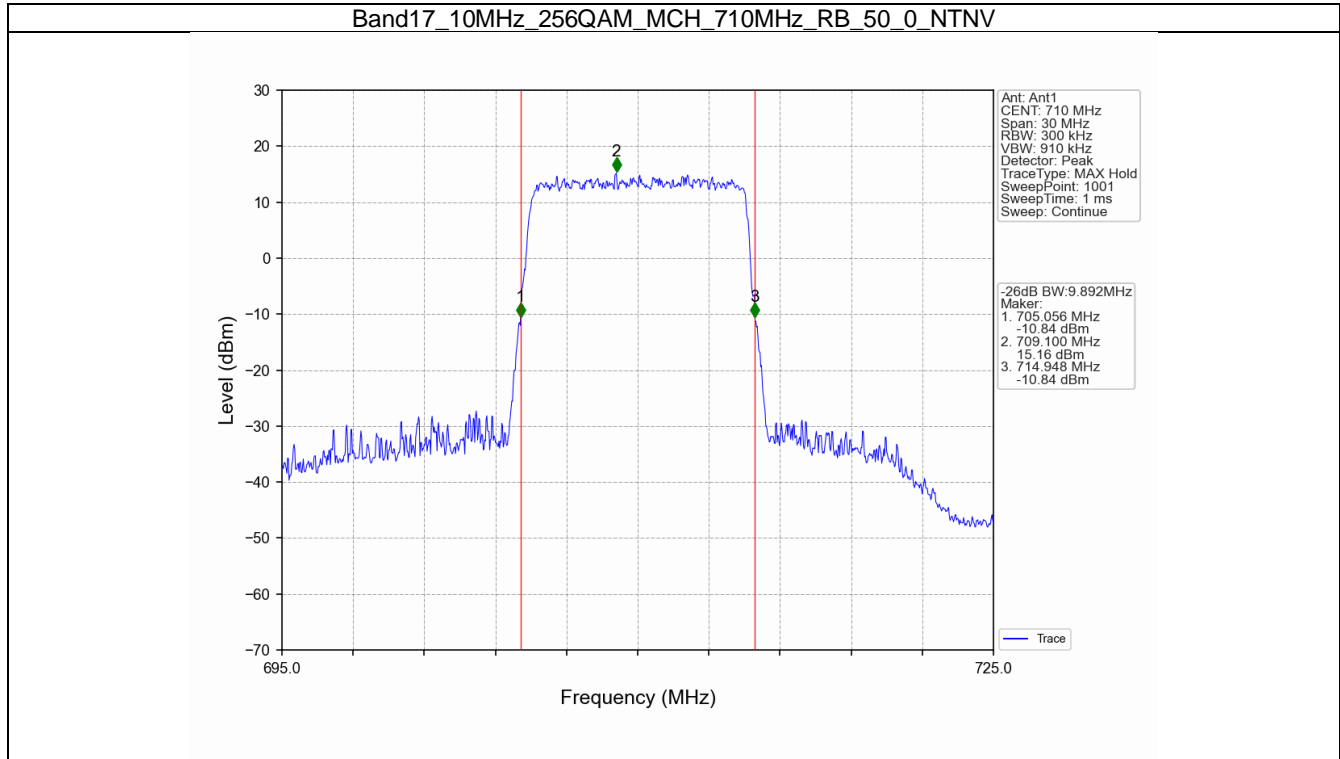
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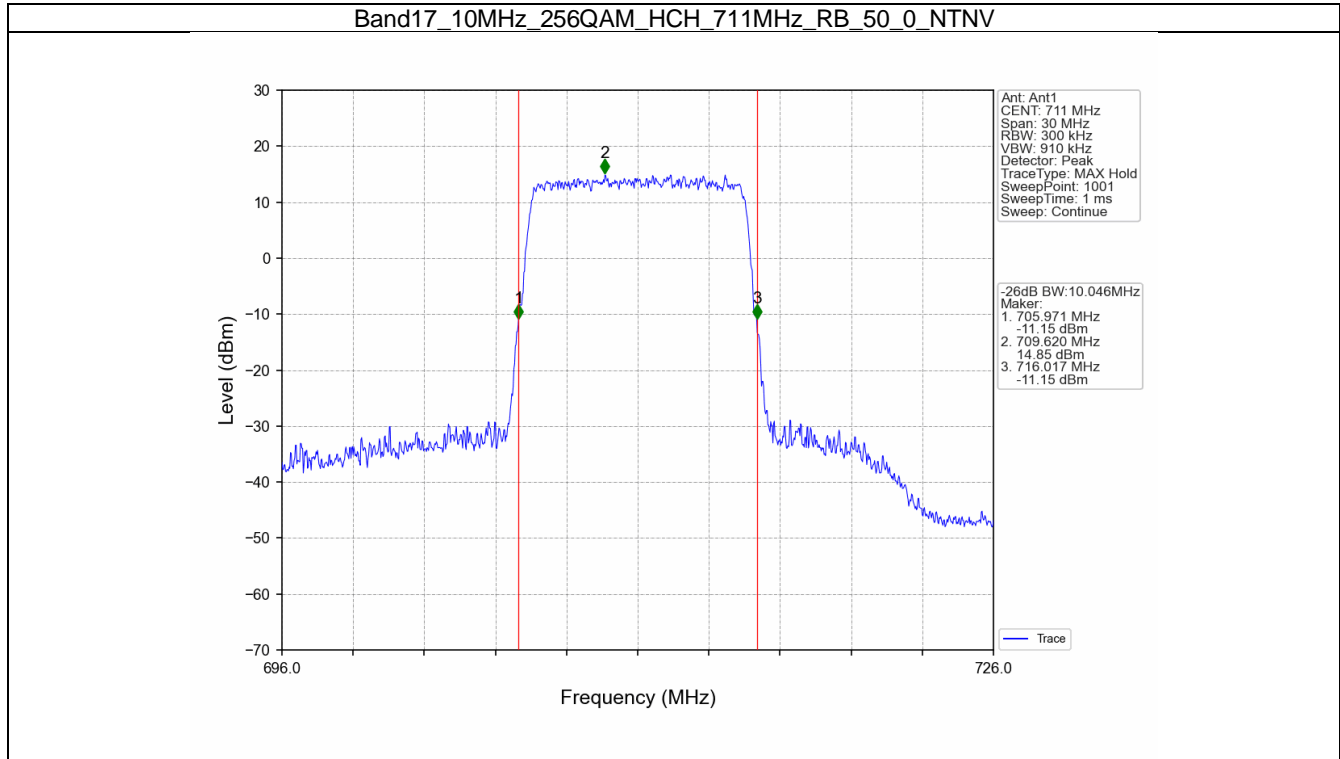
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4. Peak-Average Ratio

4.1 B17_5MHz

4.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	25	0	6.20	<=13	Pass
	710	25	0	6.27	<=13	Pass
	713.5	25	0	6.23	<=13	Pass
16QAM	706.5	25	0	6.19	<=13	Pass
	710	25	0	6.28	<=13	Pass
	713.5	25	0	6.24	<=13	Pass
64QAM	706.5	25	0	6.20	<=13	Pass
	710	25	0	6.27	<=13	Pass
	713.5	25	0	6.23	<=13	Pass
256QAM	706.5	25	0	6.70	<=13	Pass
	710	25	0	6.73	<=13	Pass
	713.5	25	0	6.61	<=13	Pass



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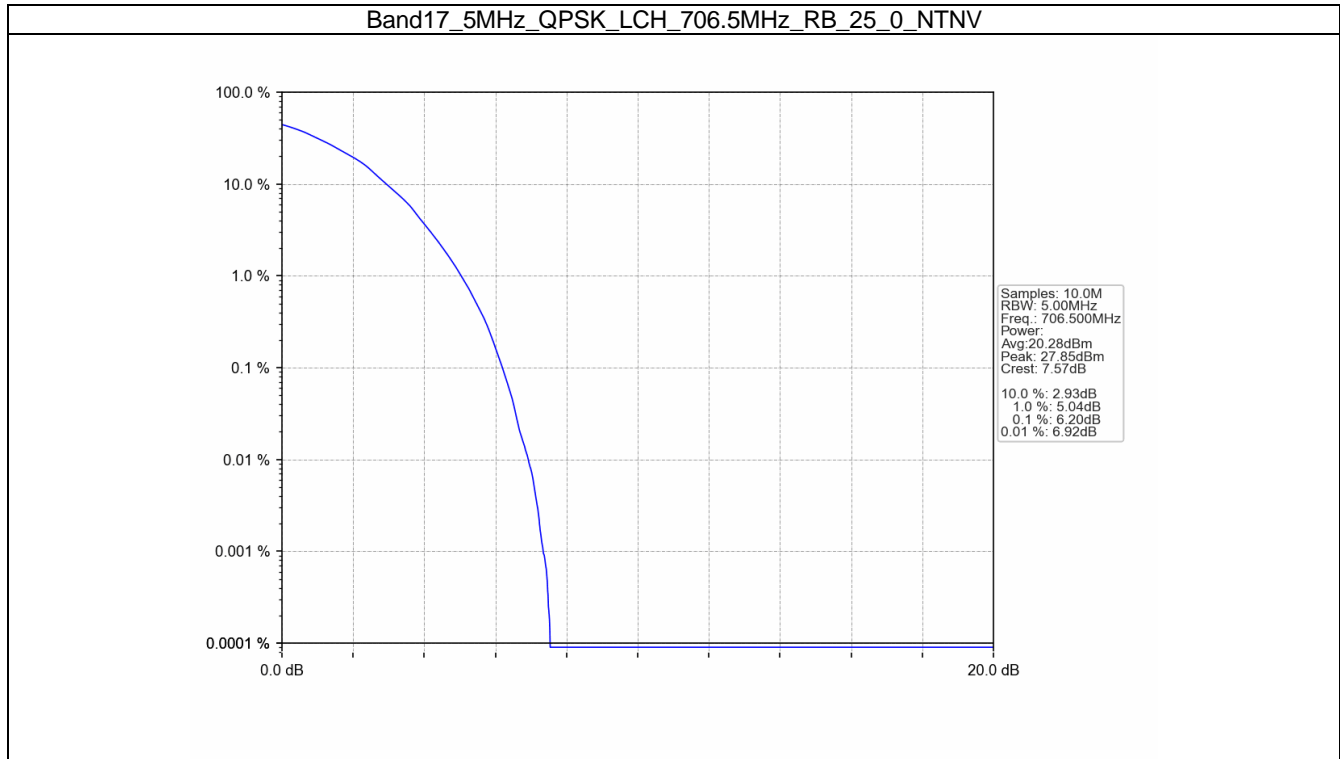
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4.1.2 Test Graph



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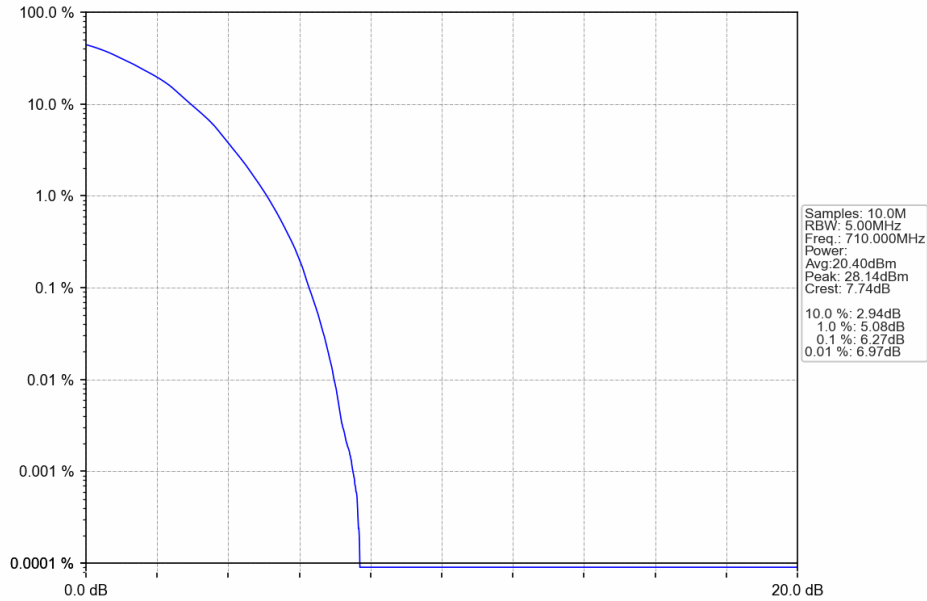


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Band17_5MHz_QPSK_MCH_710MHz_RB_25_0_NTNV



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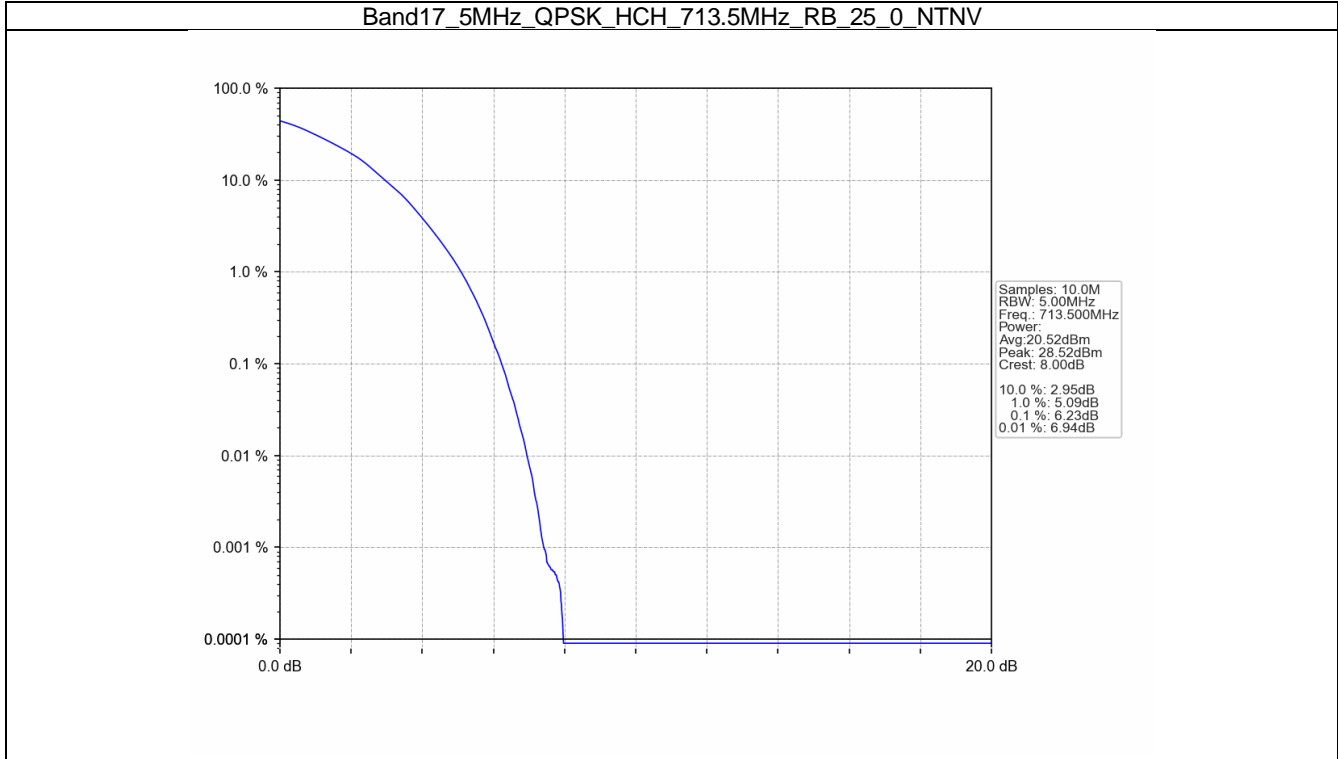


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Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



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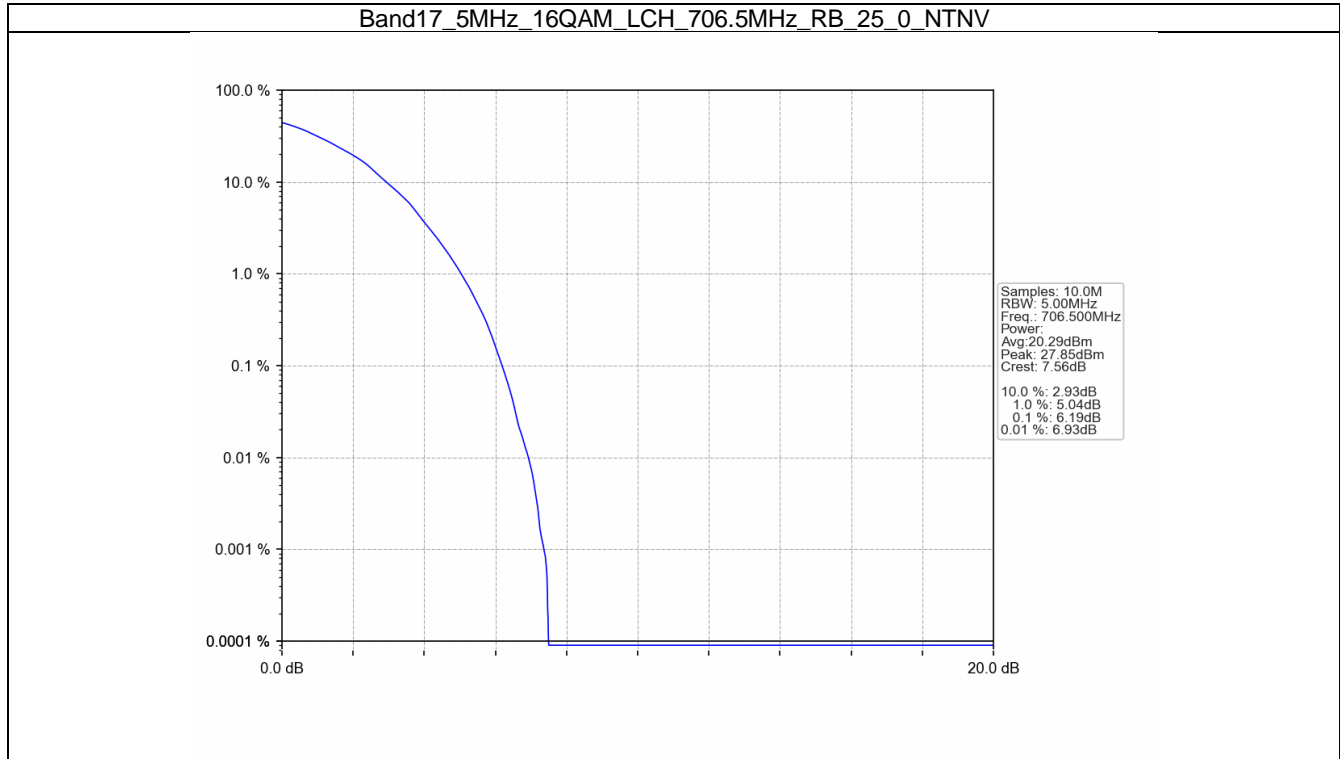
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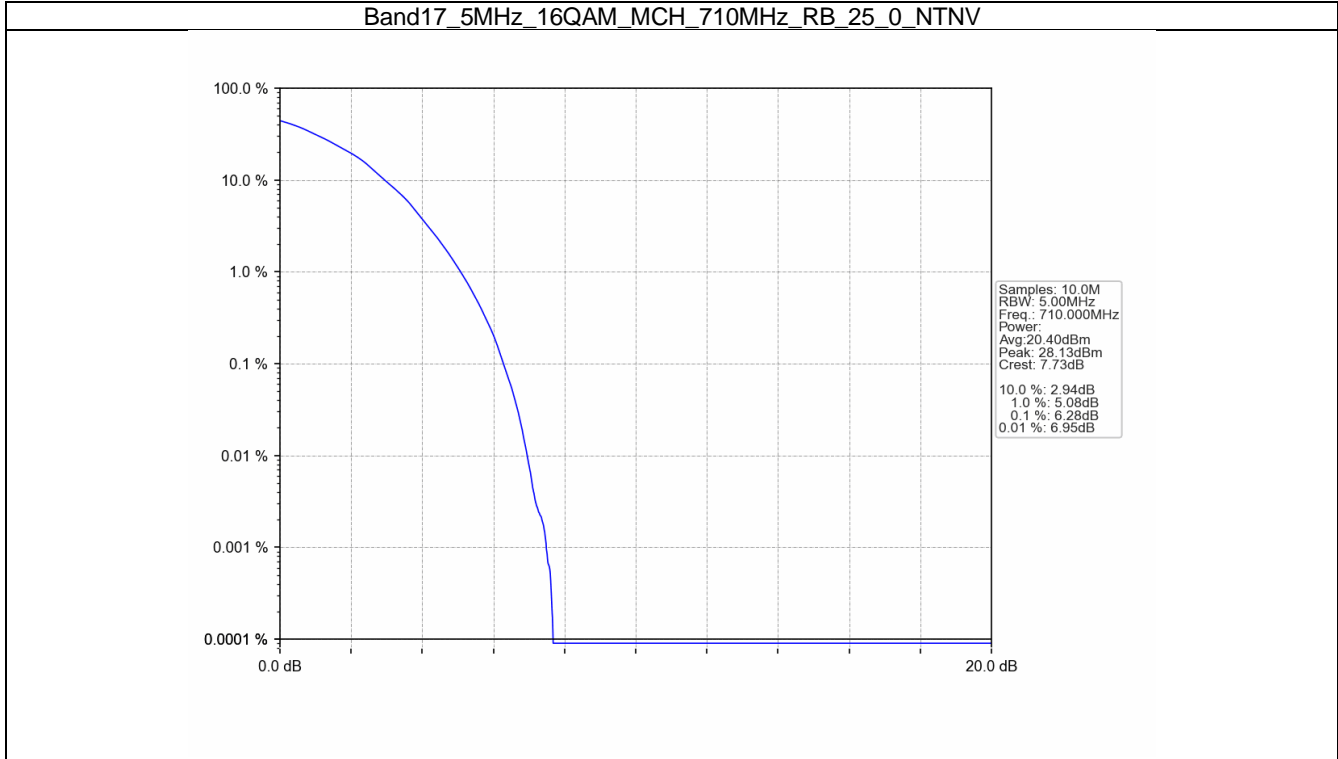


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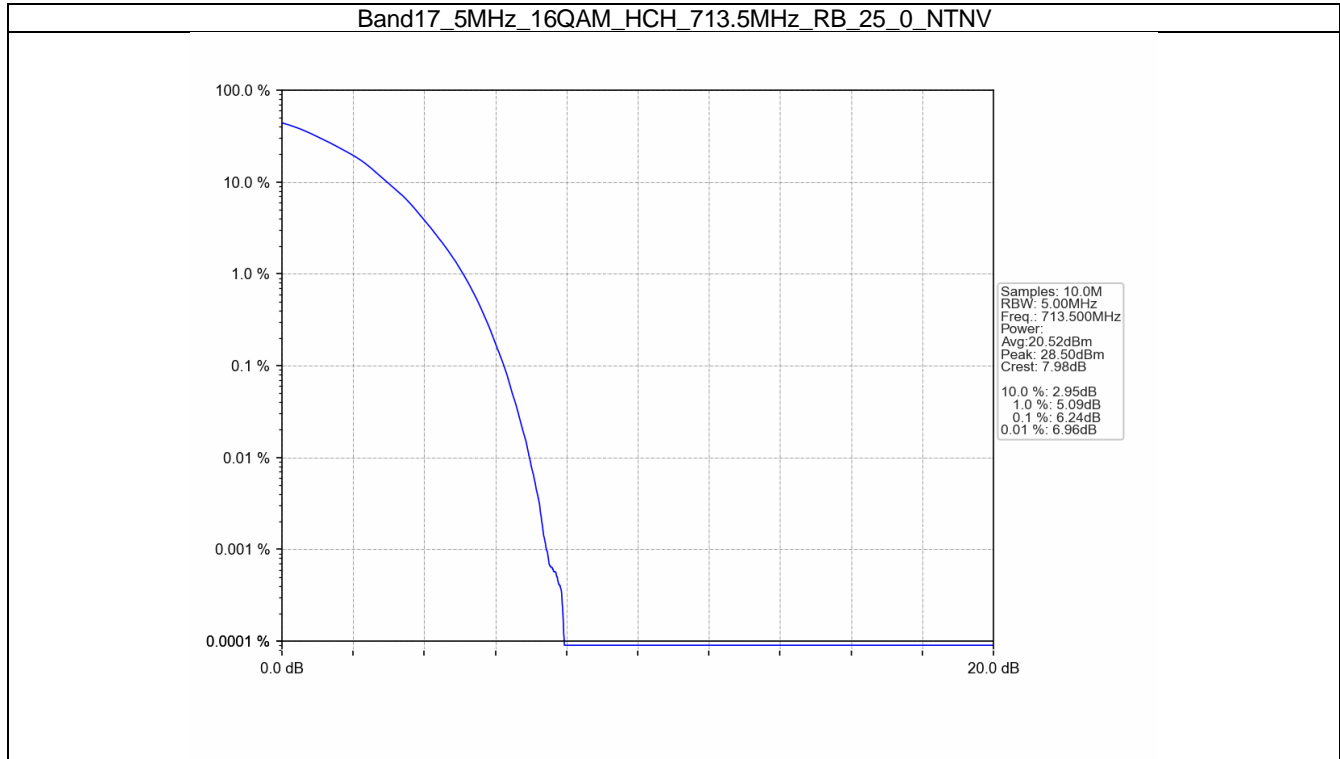
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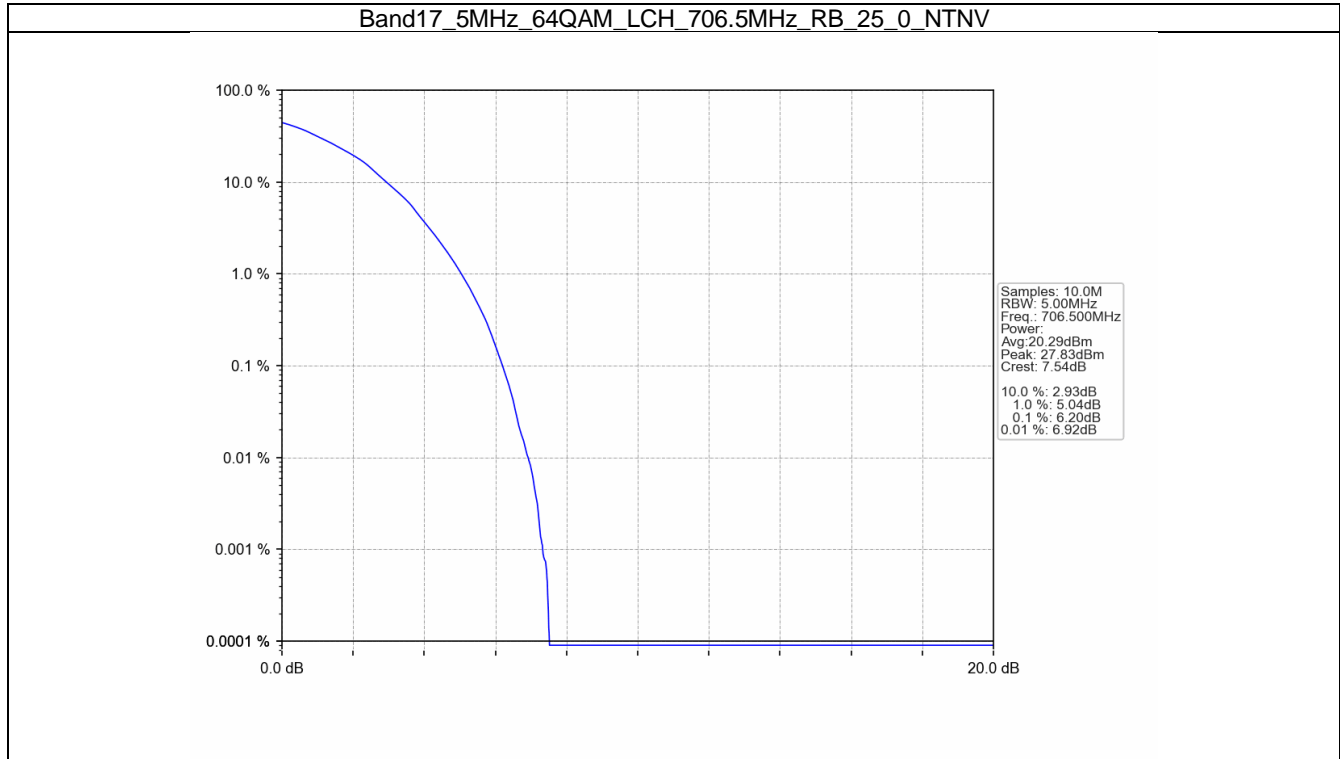
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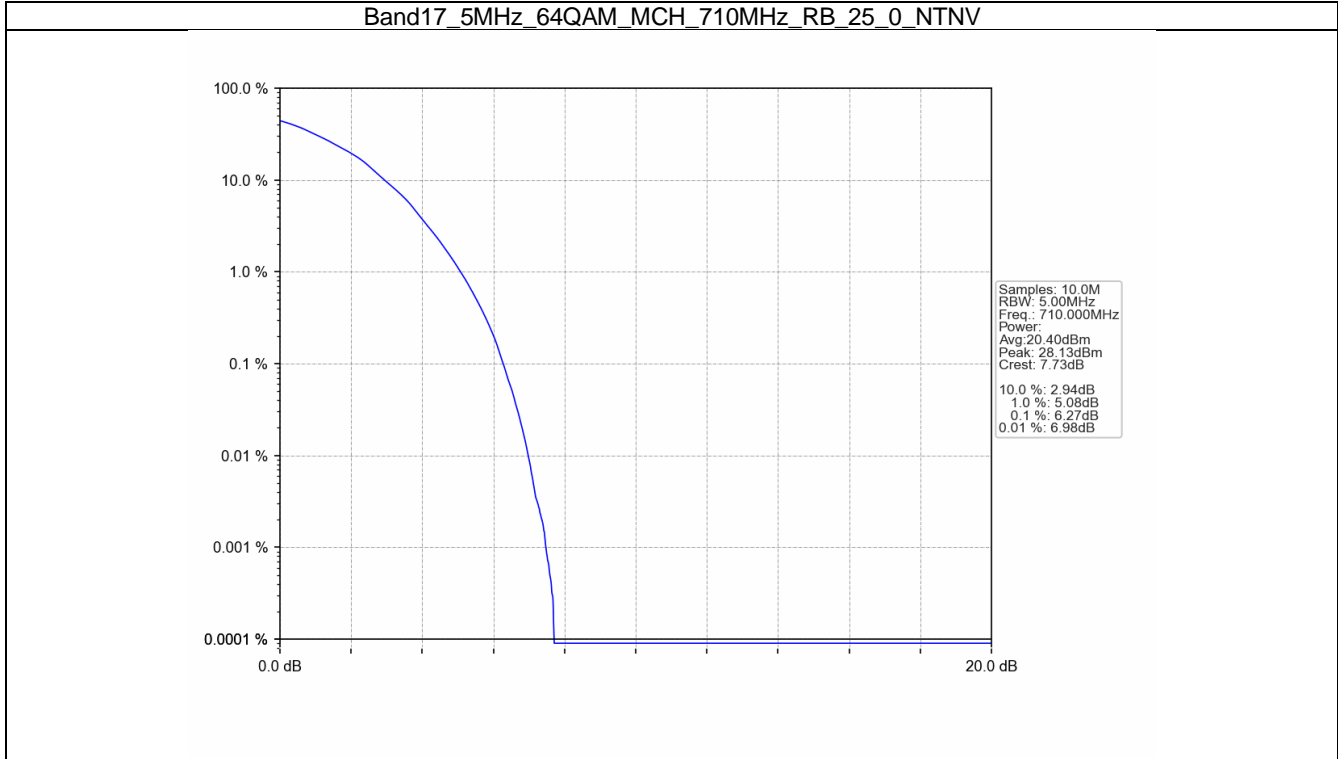
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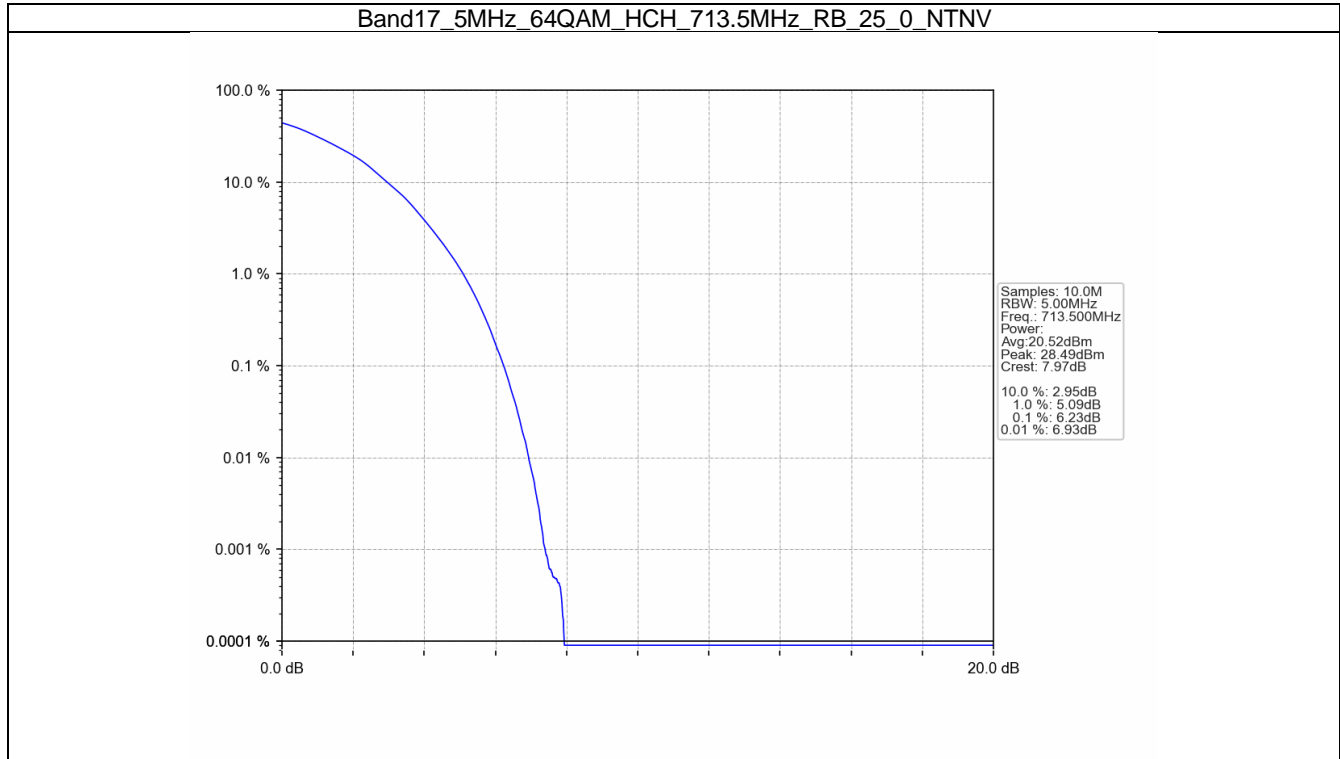
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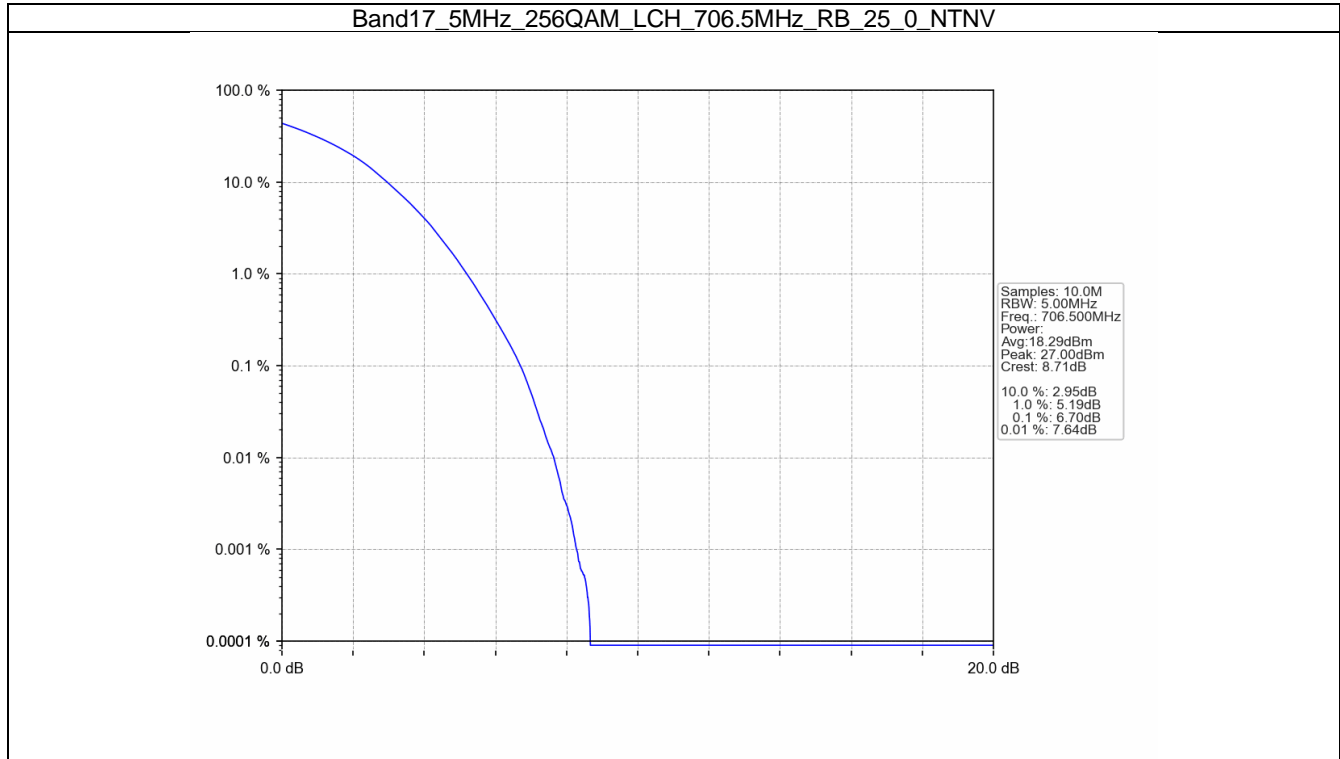
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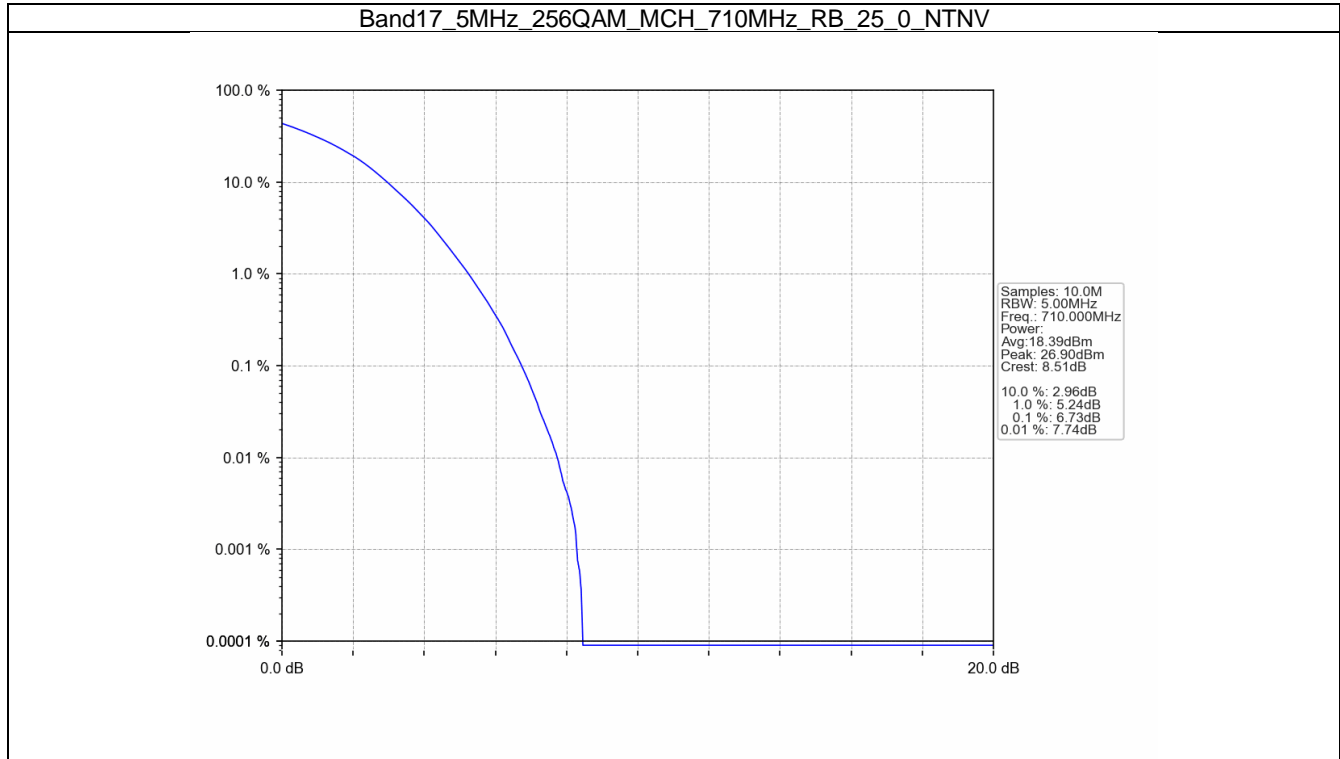
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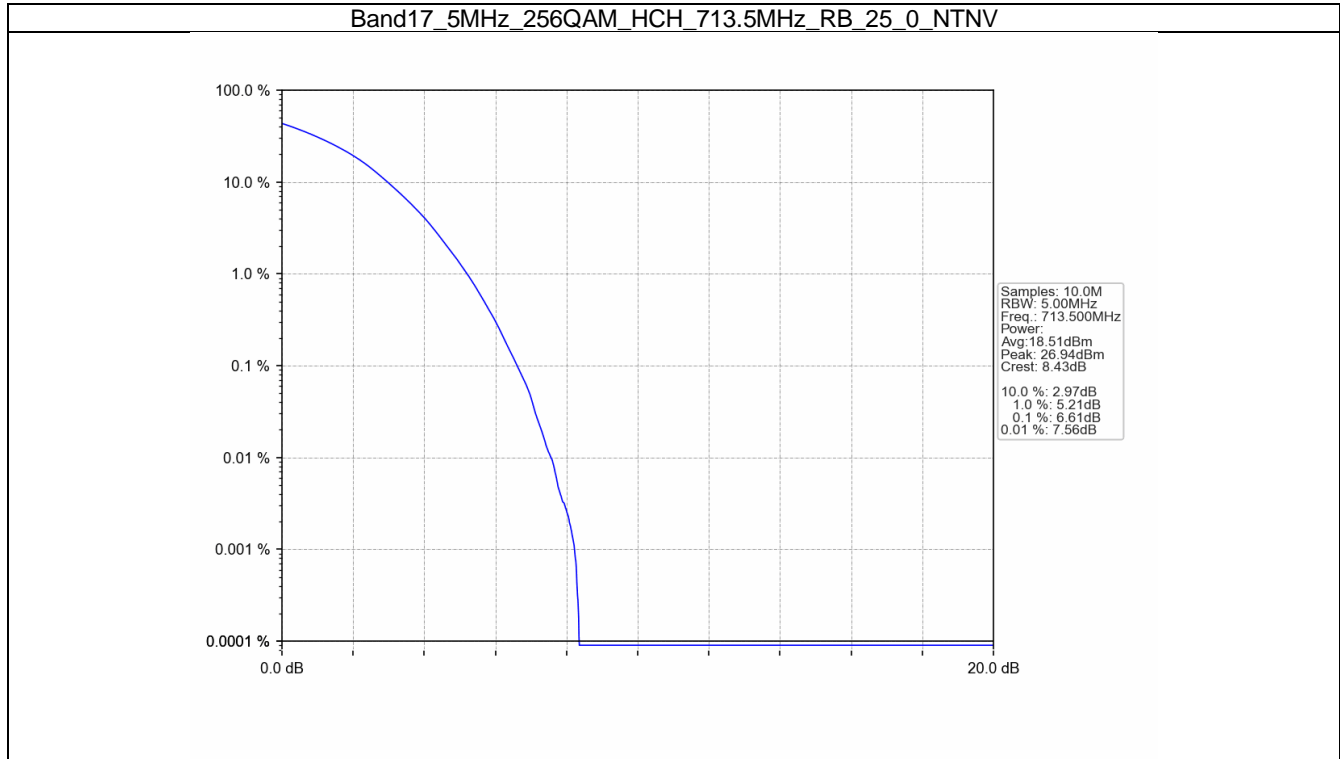
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4.2 B17_10MHz

4.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	709	50	0	6.26	<=13	Pass
	710	50	0	6.28	<=13	Pass
	711	50	0	6.27	<=13	Pass
16QAM	709	50	0	6.25	<=13	Pass
	710	50	0	6.27	<=13	Pass
	711	50	0	6.27	<=13	Pass
64QAM	709	50	0	6.24	<=13	Pass
	710	50	0	6.26	<=13	Pass
	711	50	0	6.27	<=13	Pass
256QAM	709	50	0	6.63	<=13	Pass
	710	50	0	6.61	<=13	Pass
	711	50	0	6.70	<=13	Pass



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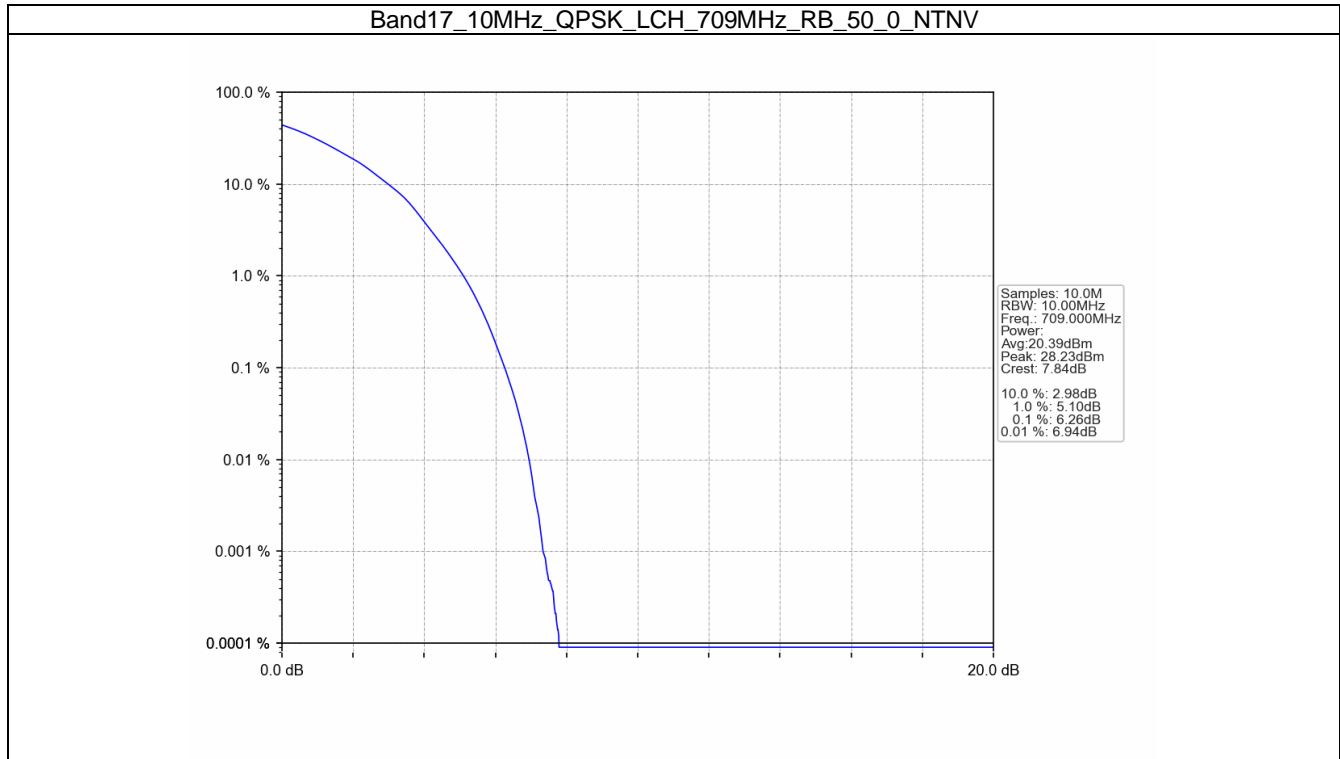
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4.2.2 Test Graph



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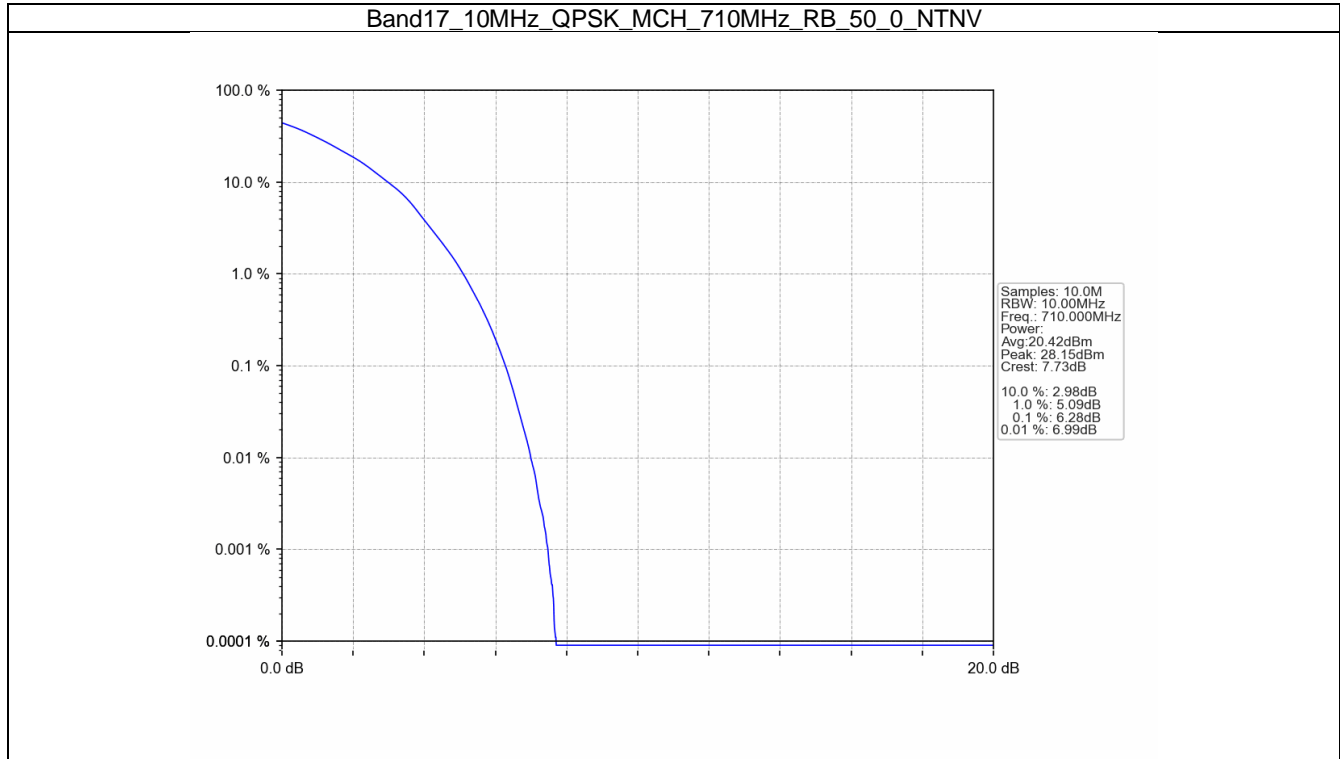
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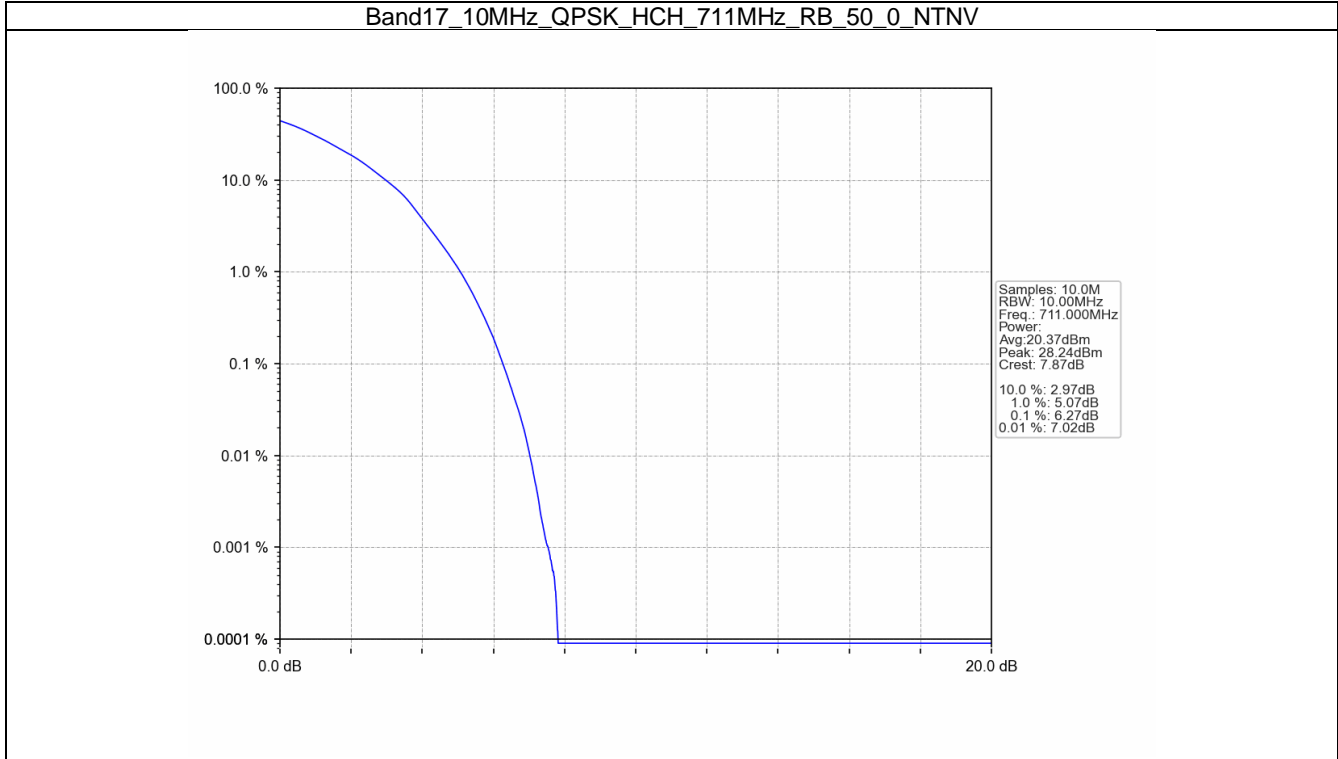


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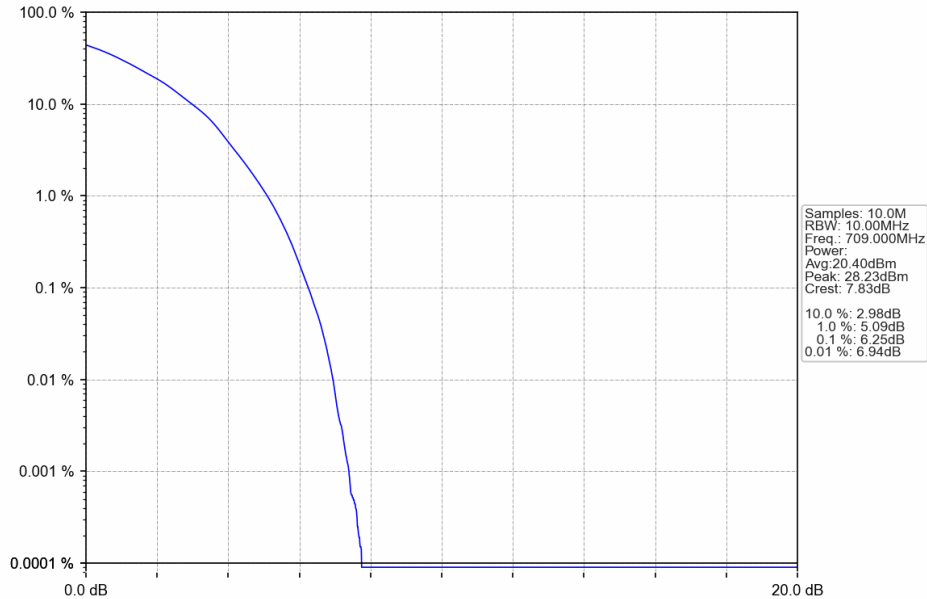


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Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



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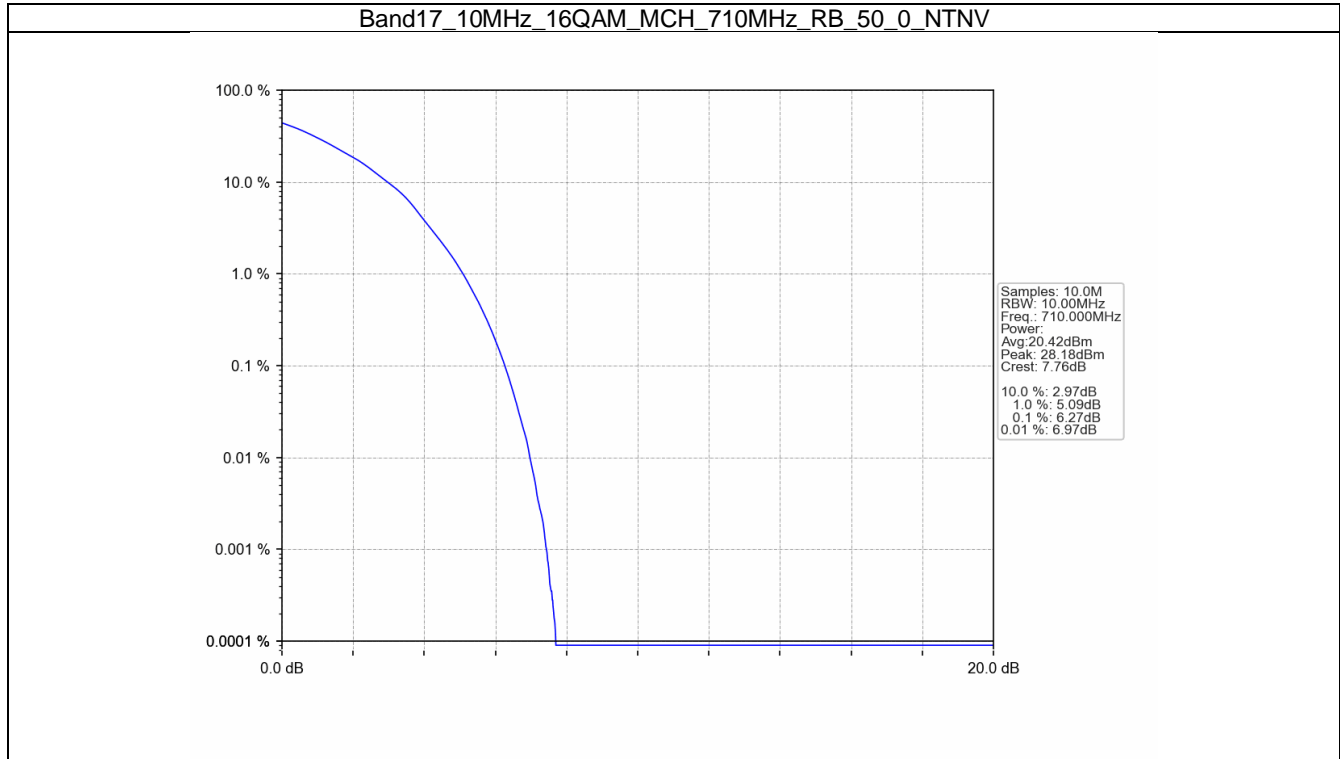
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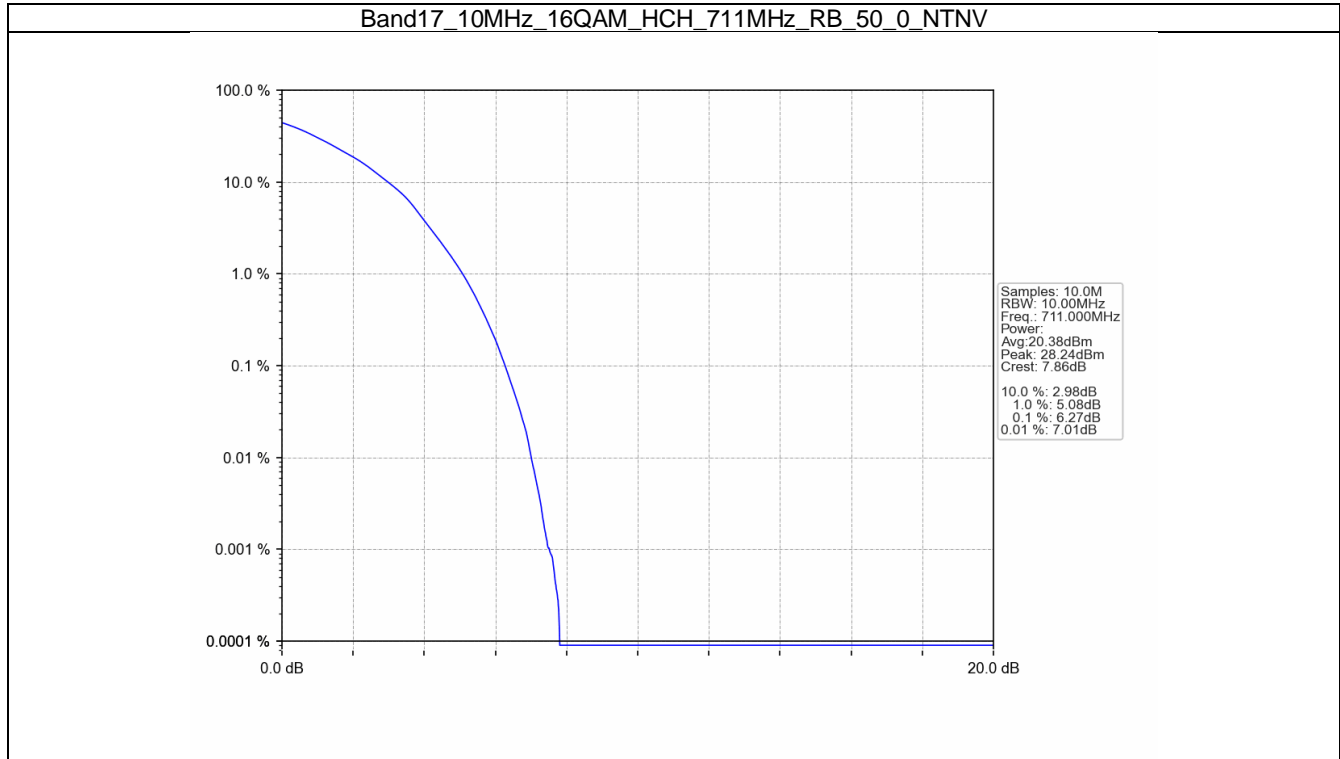
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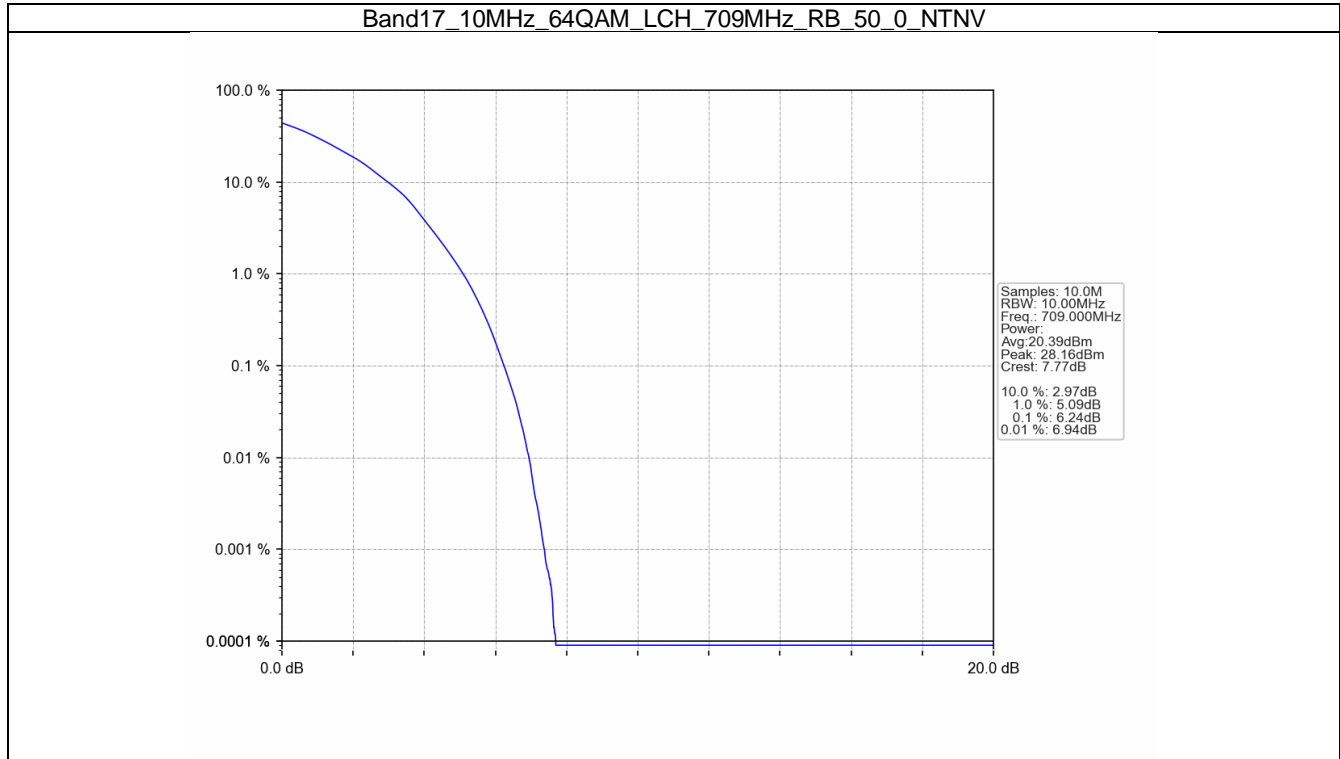
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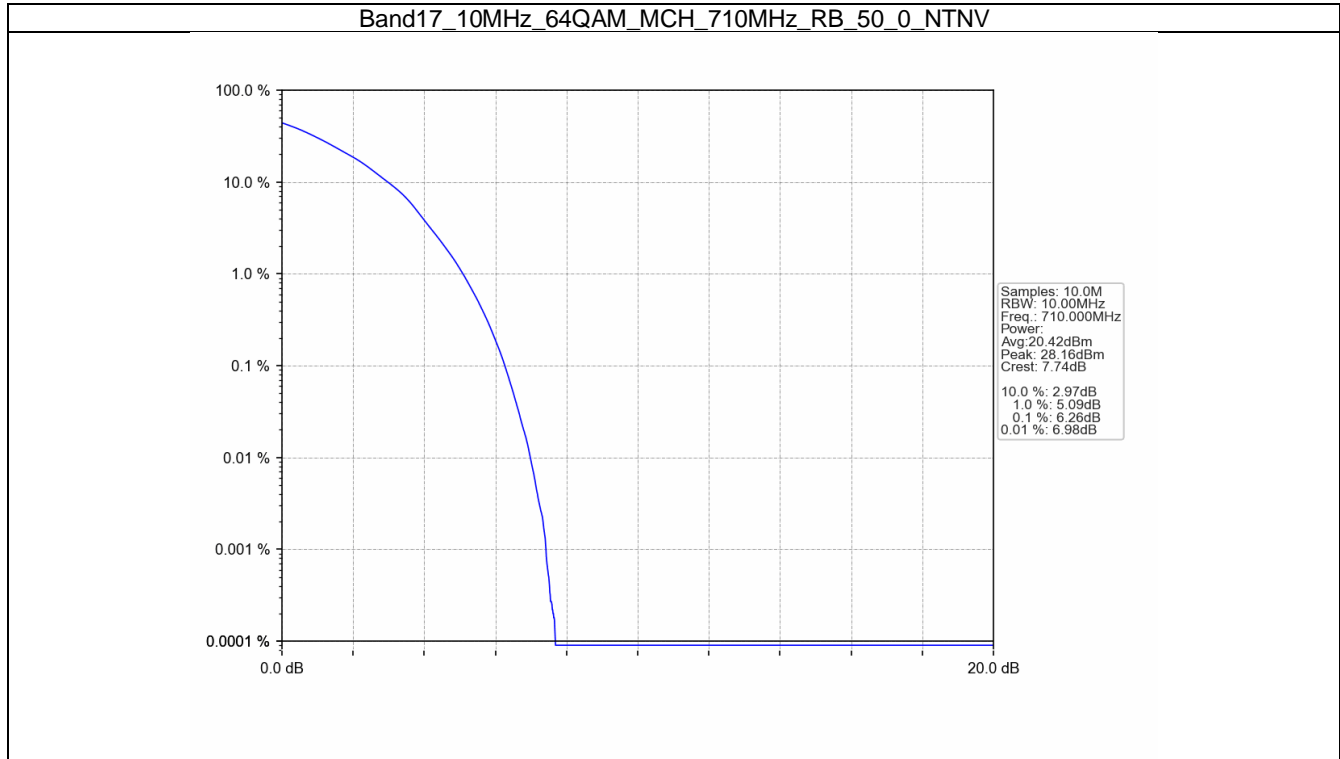
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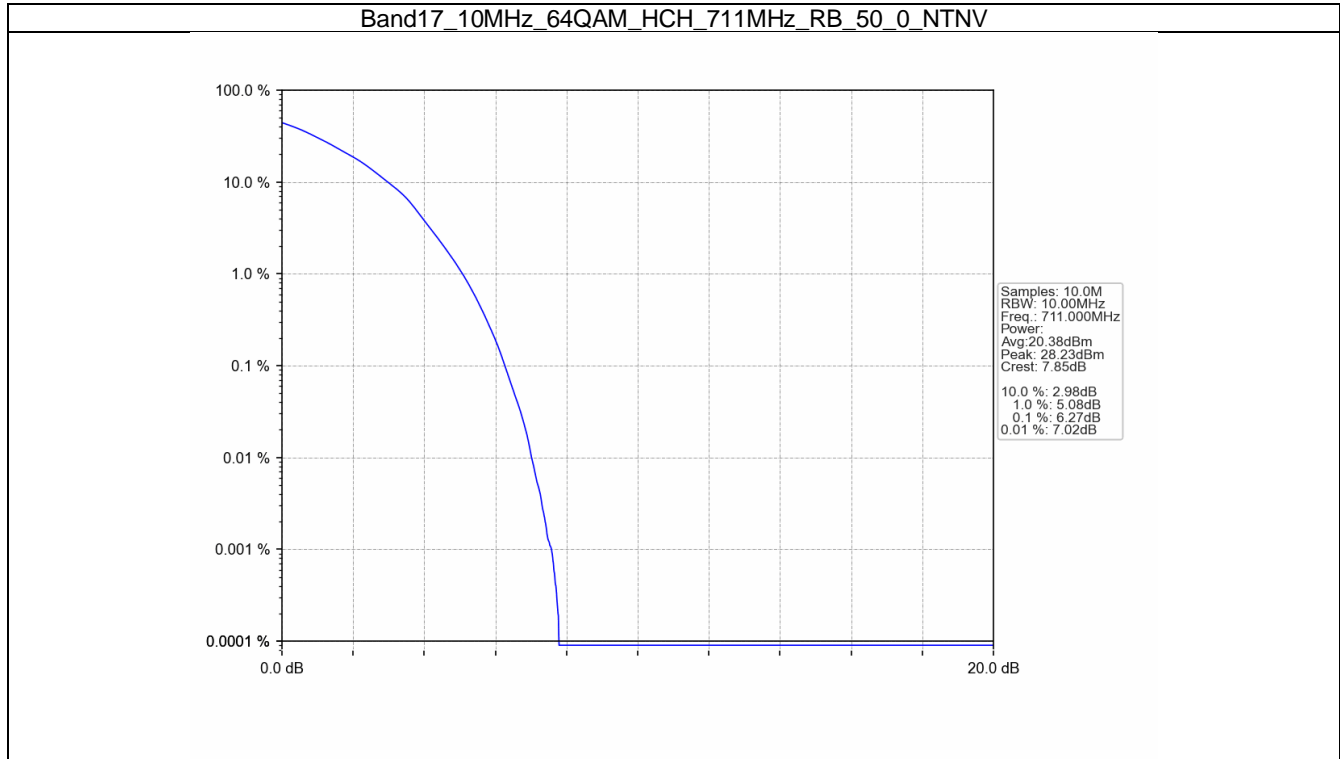
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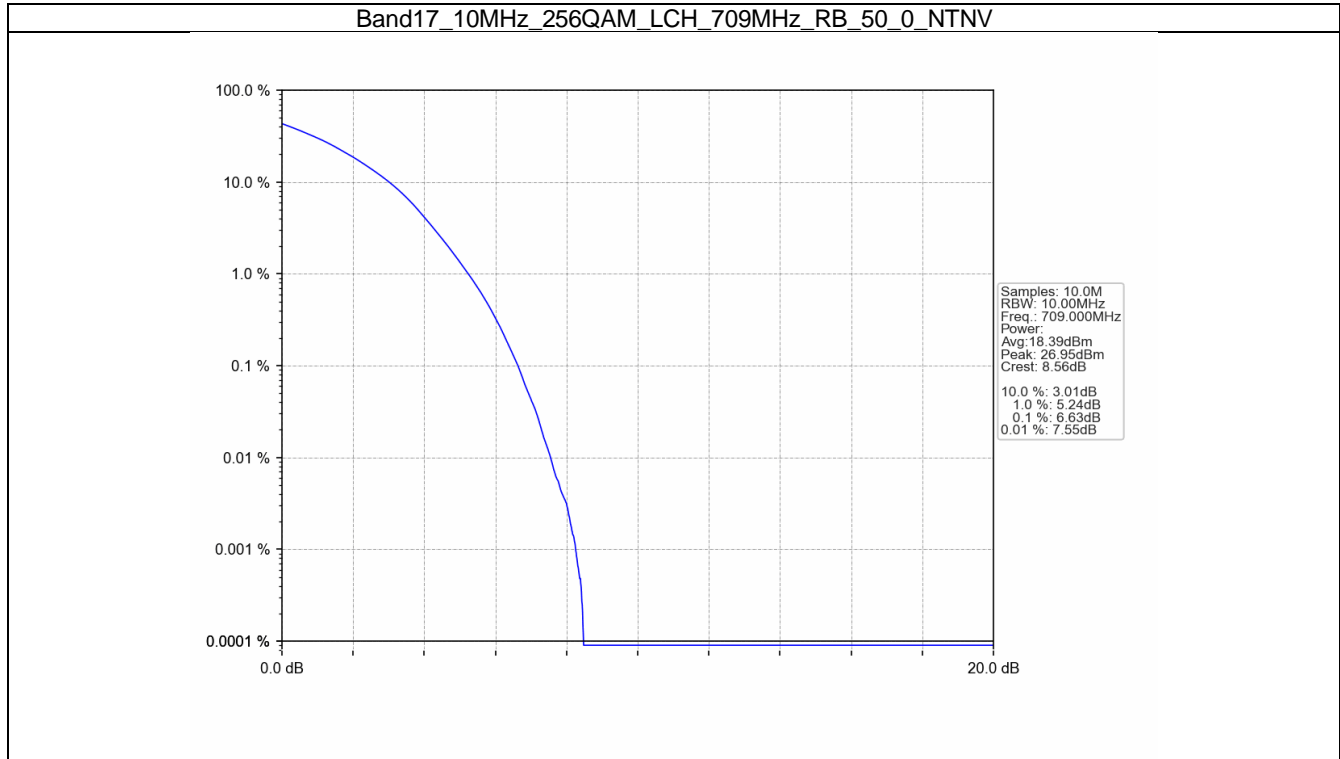
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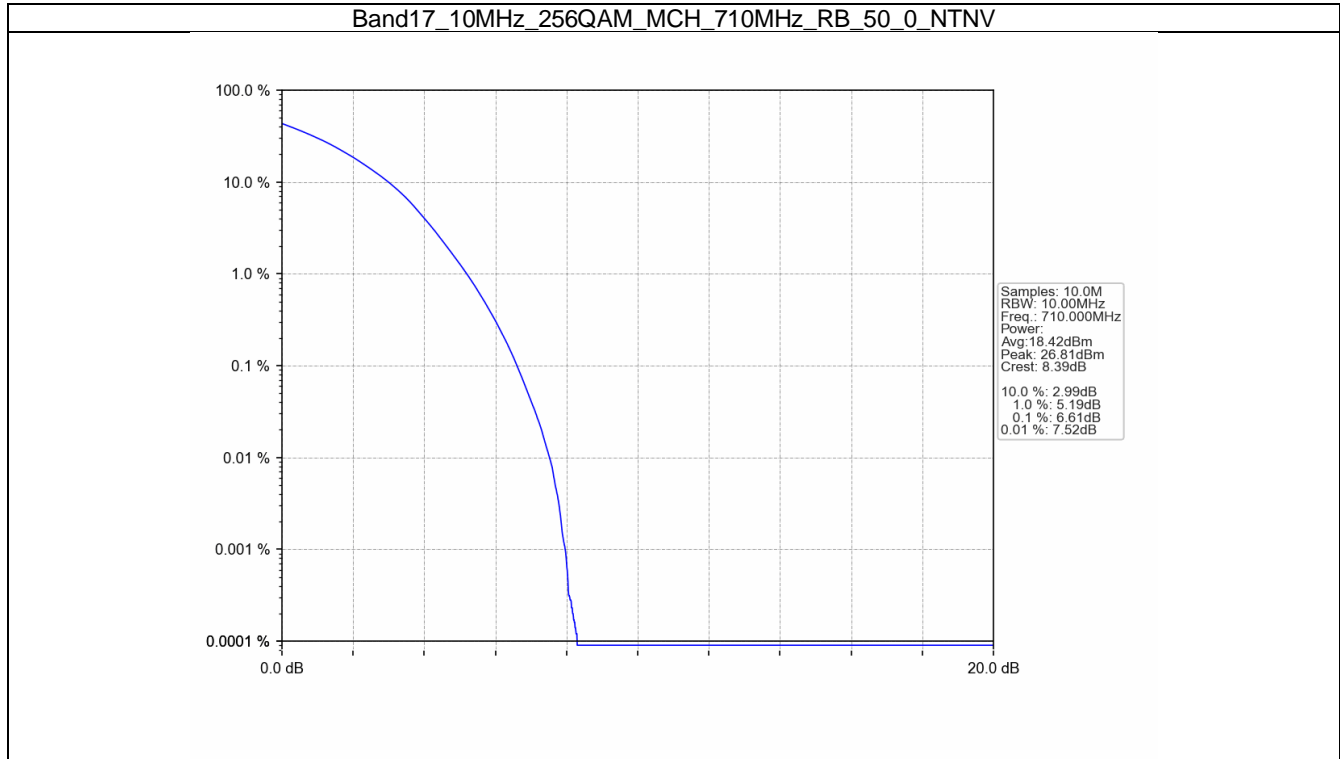
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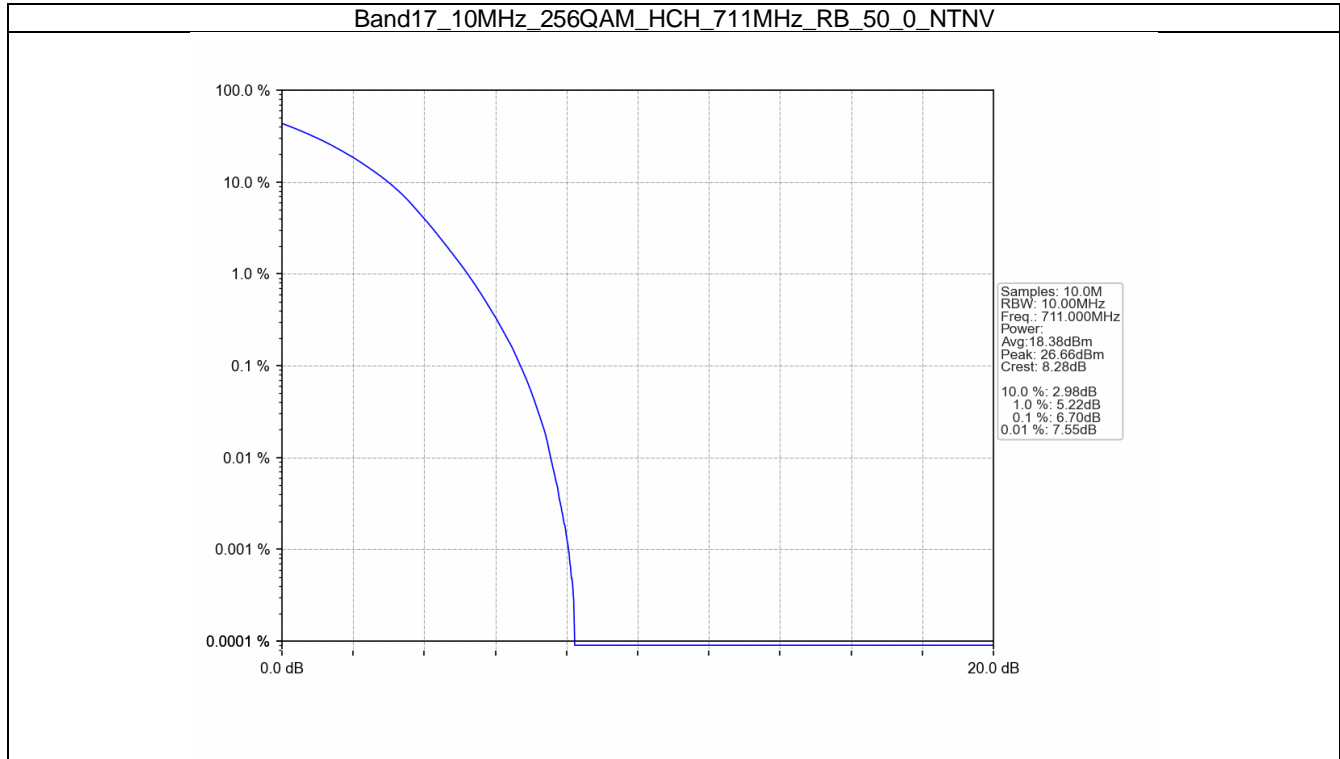
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5. Spurious Emission & Band Edges

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
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



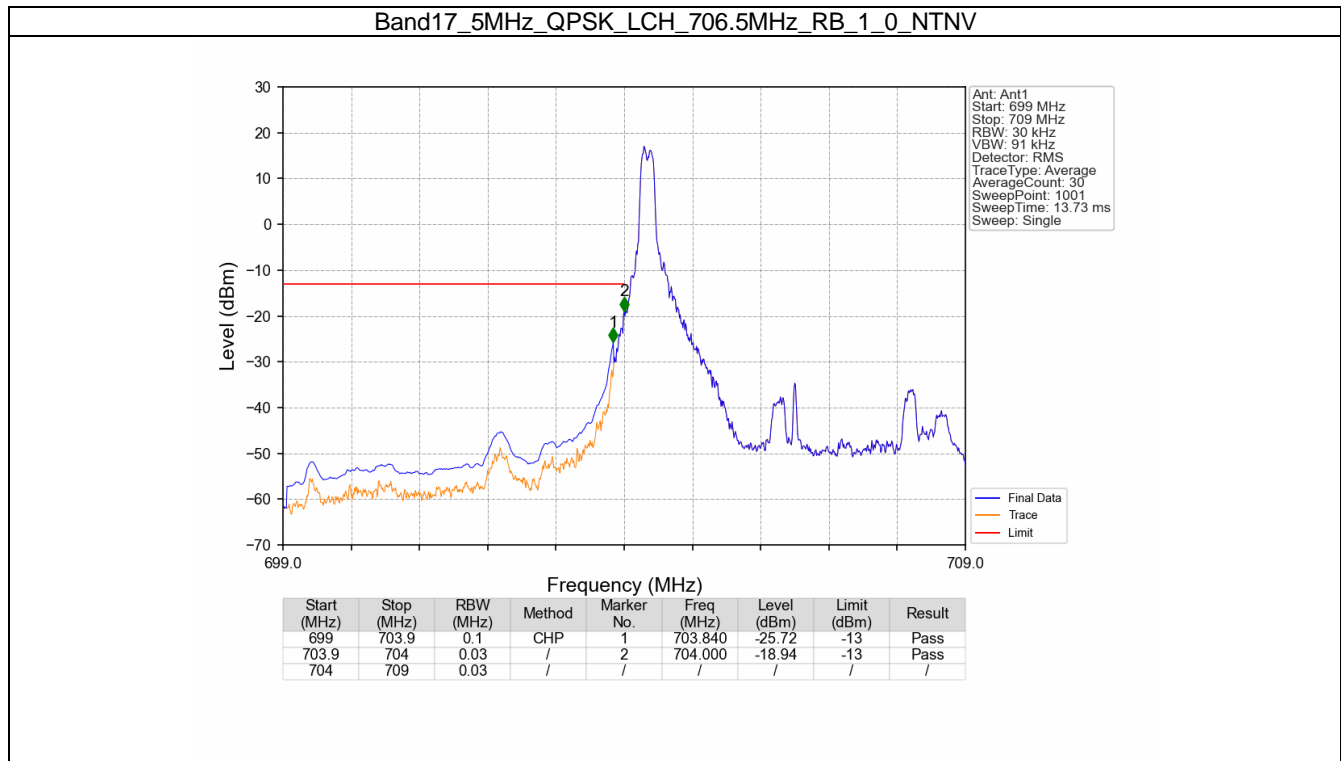
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5.1.2 Test Graph



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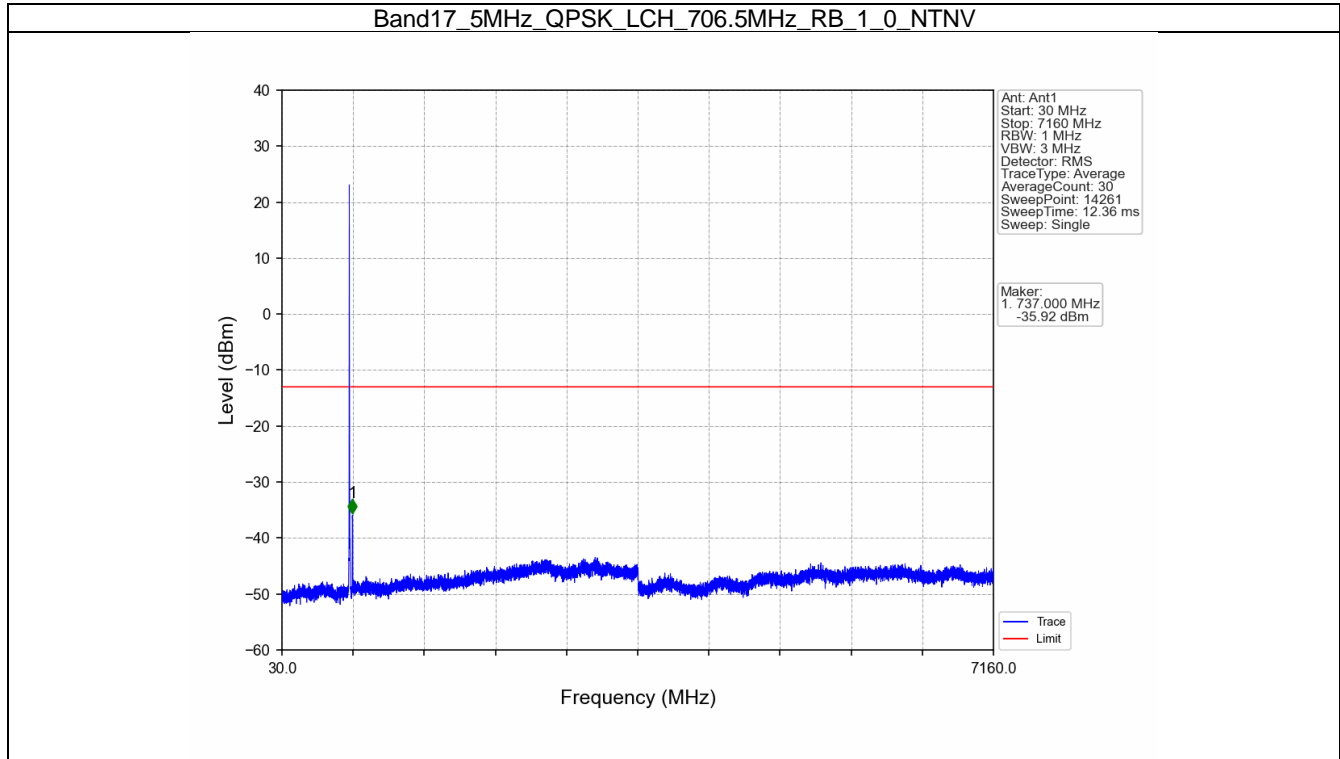
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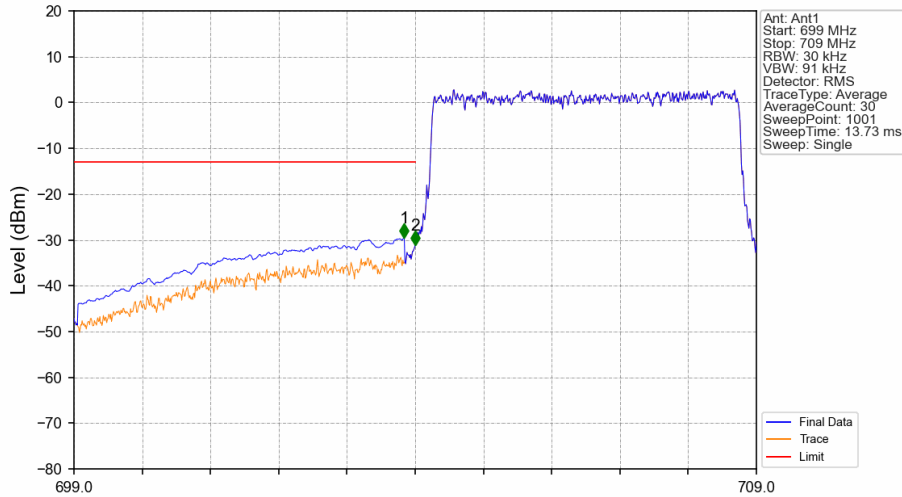
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.840	-29.54	-13	Pass
703.9	704	0.03	/	2	704.000	-31.10	-13	Pass
704	709	0.03	/	/	/	/	/	/



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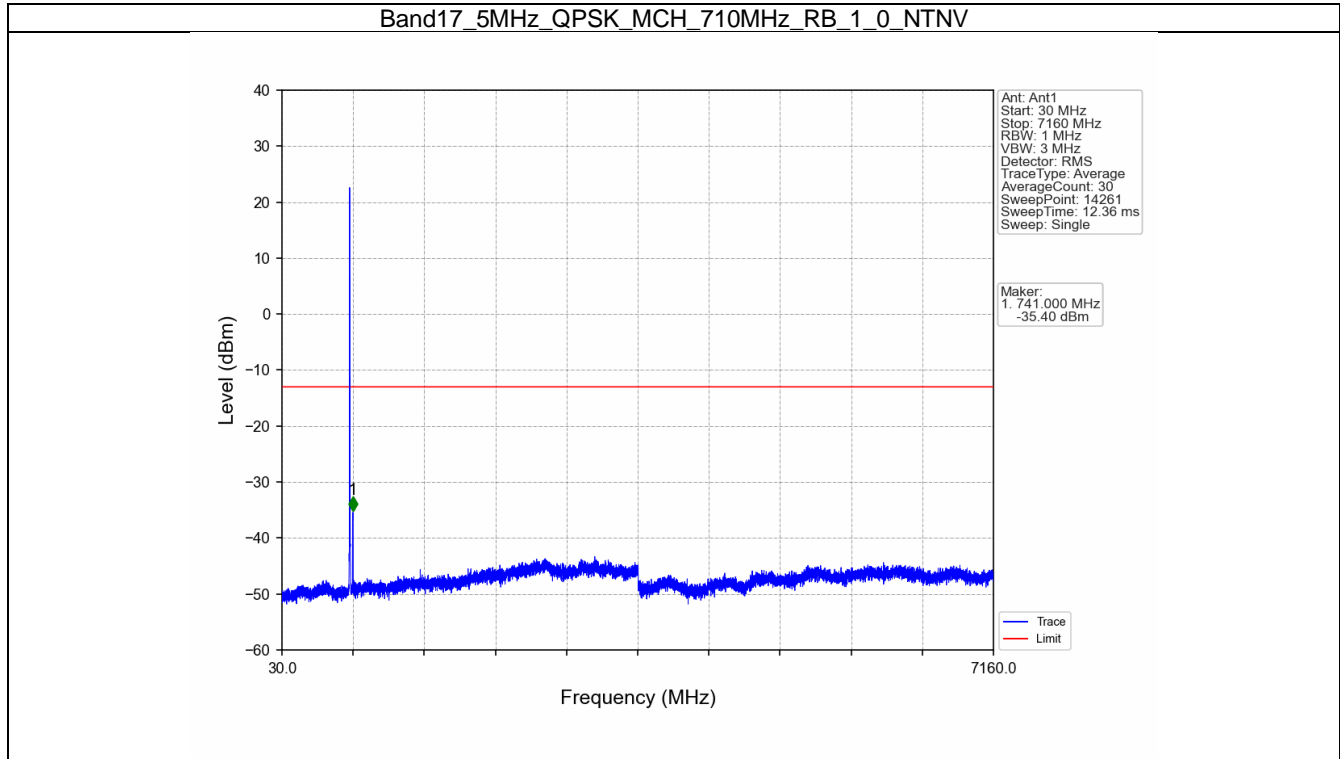
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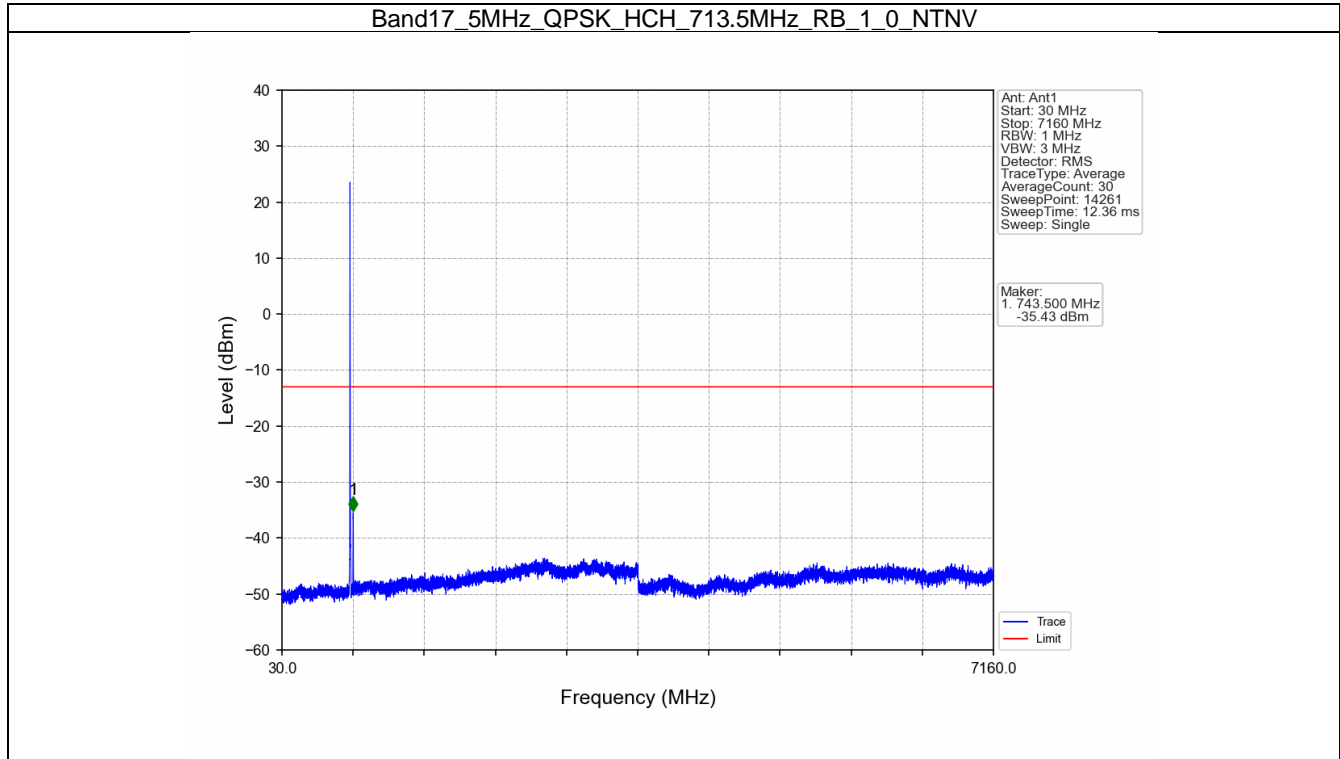
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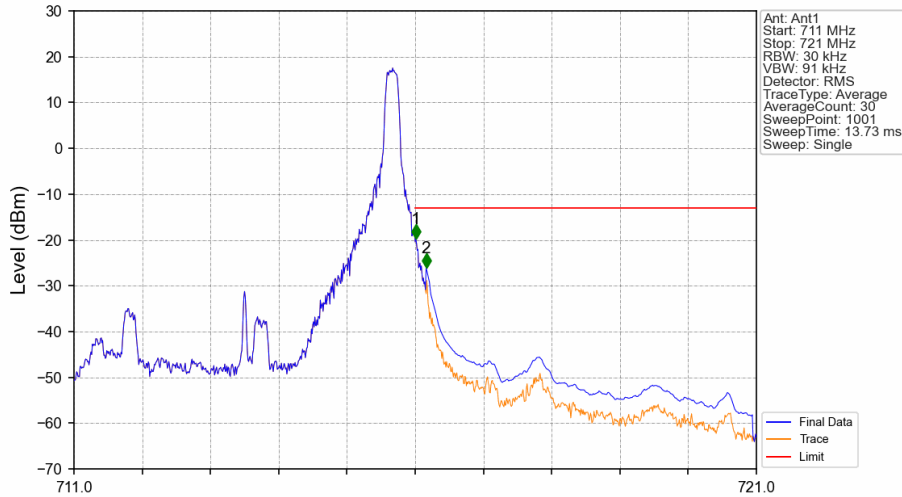


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Band17_5MHz_QPSK_HCH_713.5MHz_RB_1_24_NTNV



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	716.010	-19.69	-13	Pass
716.1	721	0.1	CHP	2	716.160	-26.08	-13	Pass



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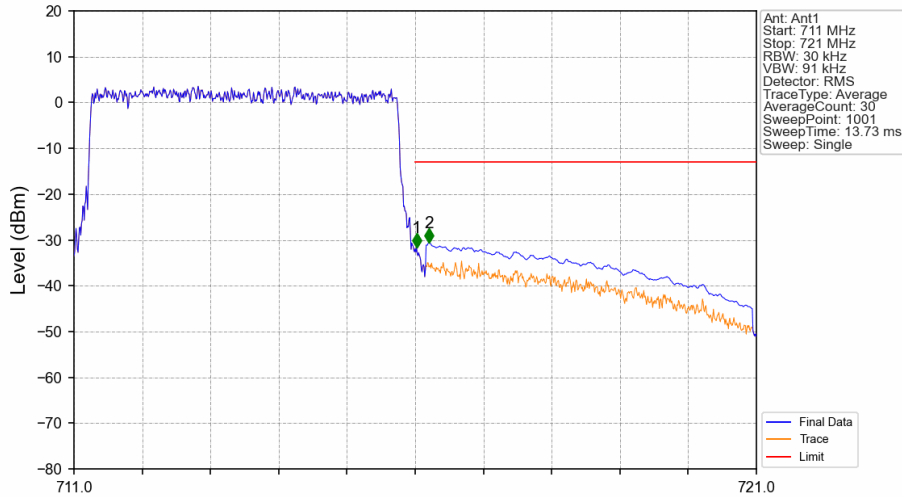
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Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



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	716.020	-31.71	-13	Pass
716.1	721	0.1	CHP	2	716.200	-30.68	-13	Pass



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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



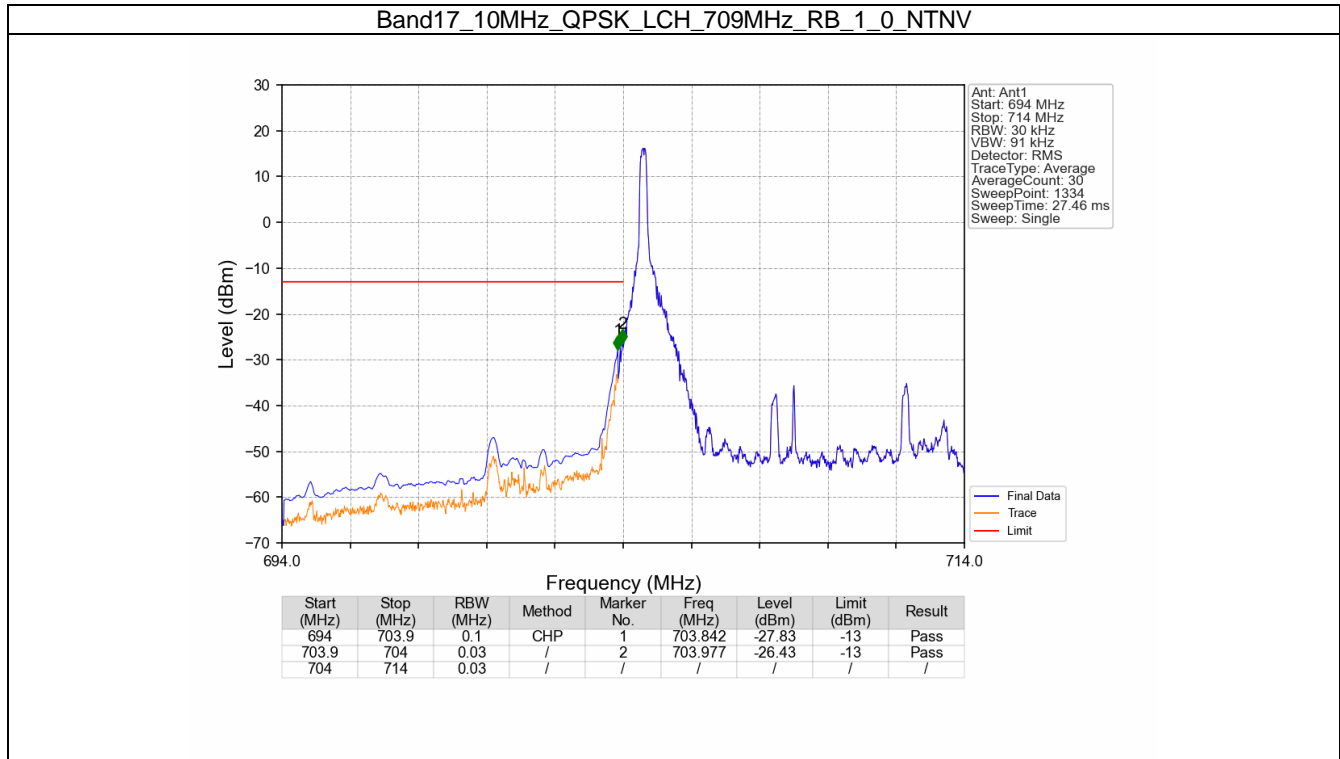
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5.2.2 Test Graph



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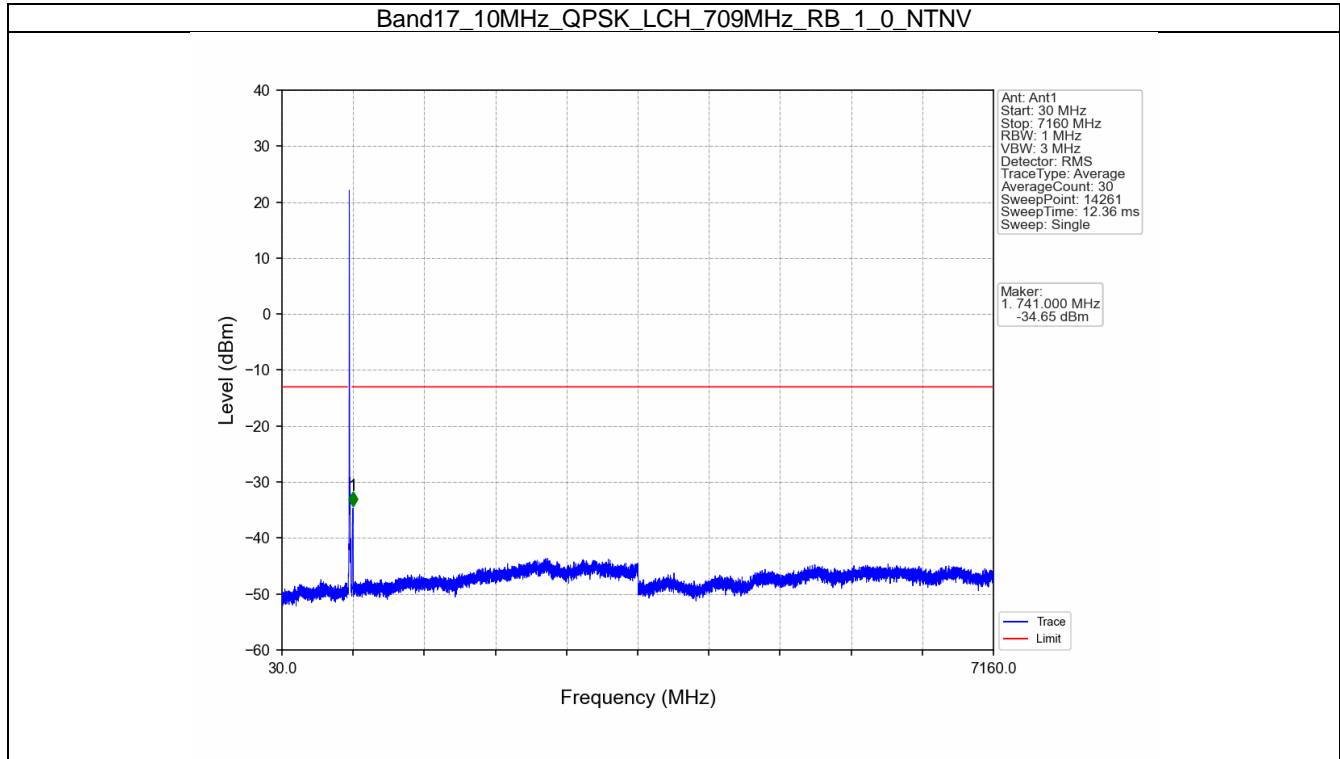
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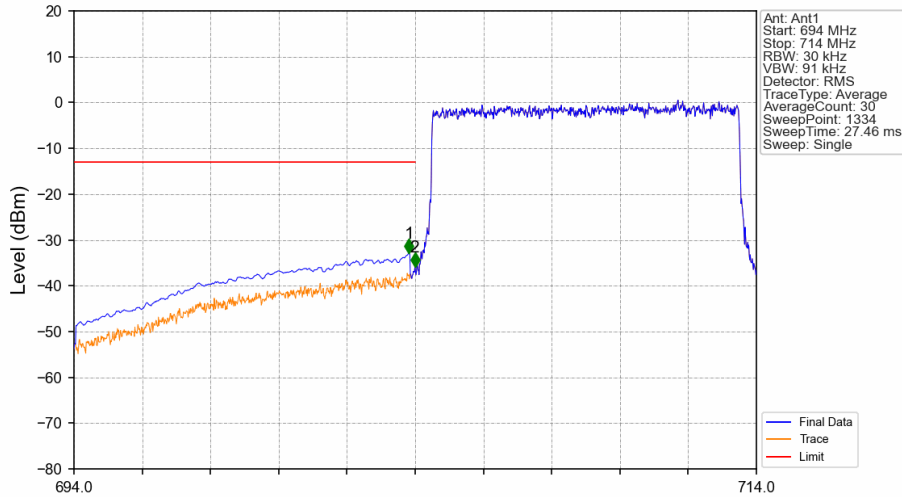
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Band17_10MHz_QPSK_LCH_709MHz_RB_50_0_NTNV



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	-32.94	-13	Pass
703.9	704	0.03	/	2	703.992	-35.87	-13	Pass
704	714	0.03	/	/	/	/	/	/



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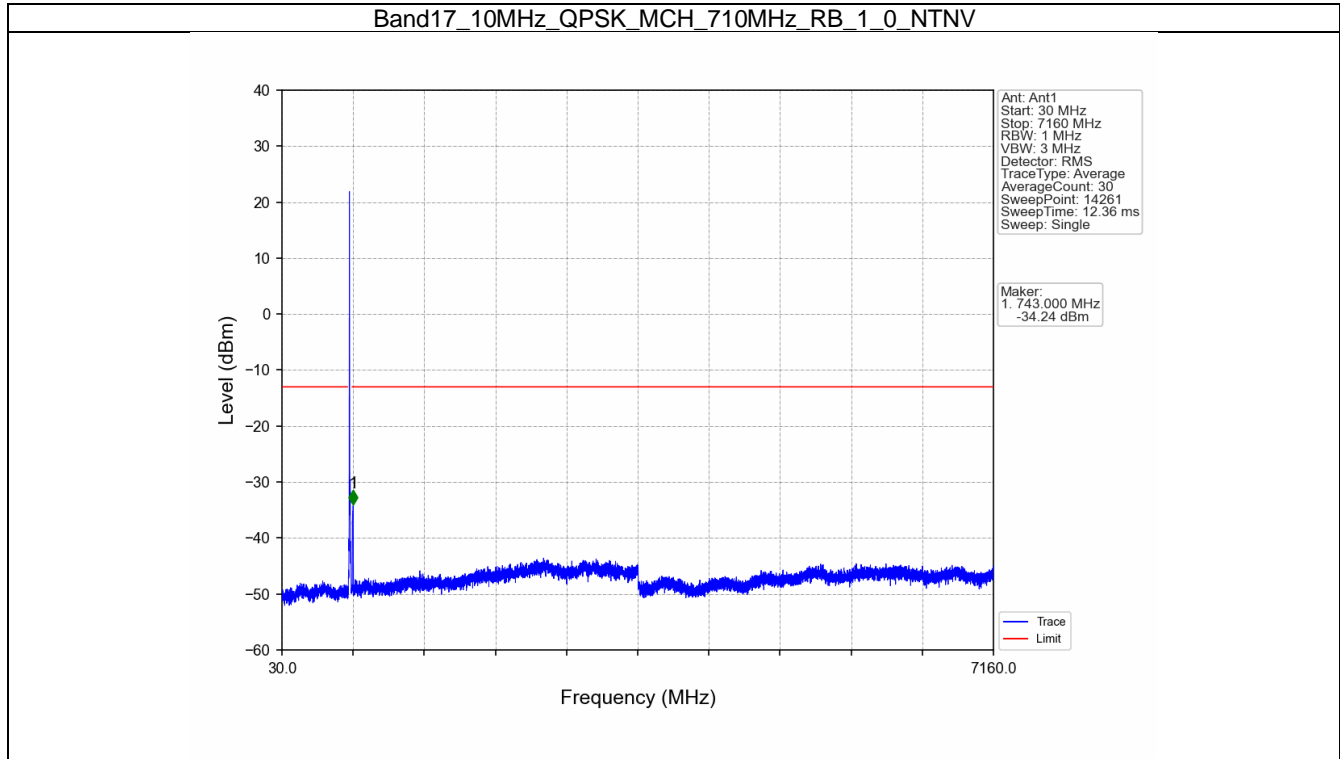
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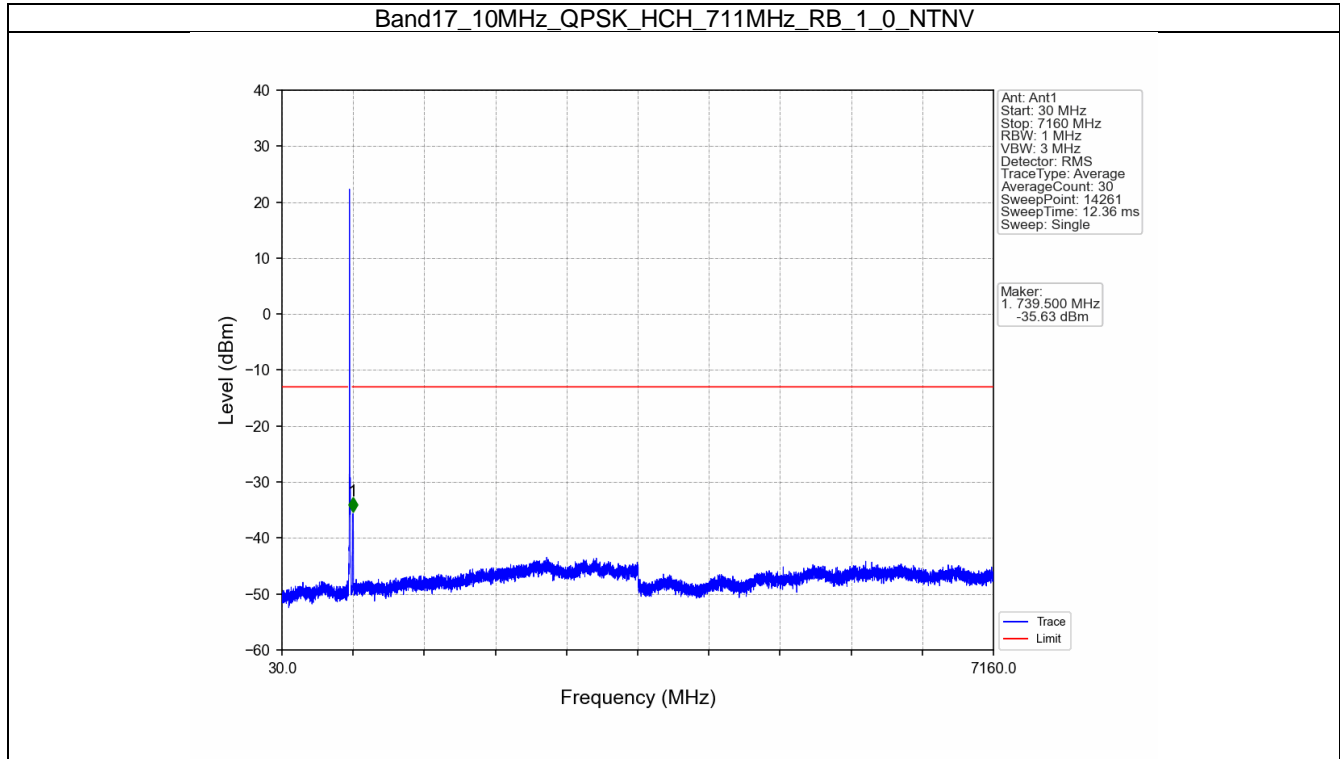
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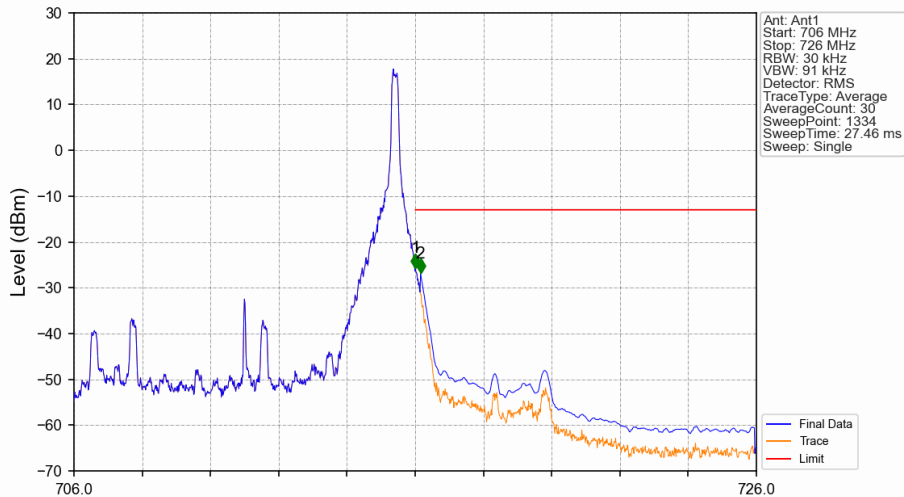
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Band17_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



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	-25.66	-13	Pass
716.1	726	0.1	CHP	2	716.158	-26.83	-13	Pass

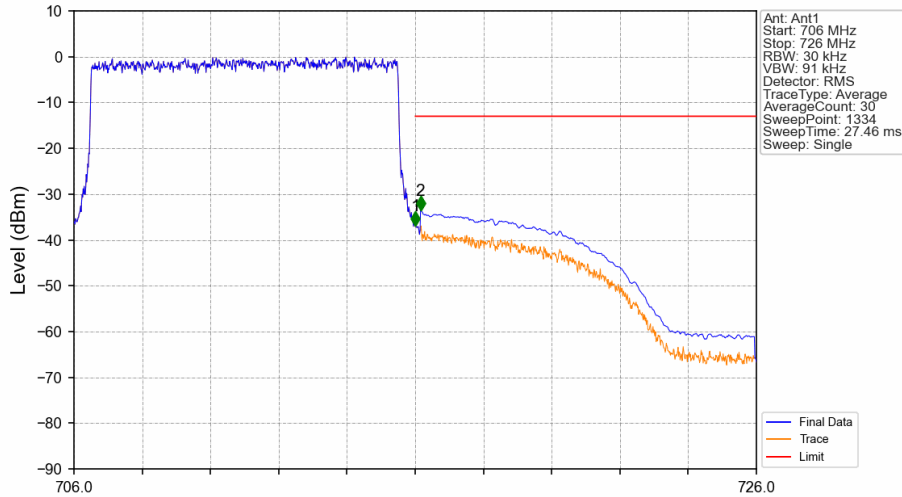


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Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



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	-36.98	-13	Pass
716.1	726	0.1	CHP	2	716.158	-33.57	-13	Pass



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6. Field Strength of Spurious Radiation

Test Band = LTE Band17_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409.1800	43.36	-48.03	25.10	-74.83	-13.00	61.83	Horizontal
2	2113.7700	42.05	-47.71	26.22	-74.70	-13.00	61.70	Horizontal
3	2818.3600	42.12	-46.85	27.94	-72.06	-13.00	59.06	Horizontal
4	3522.9500	41.89	-46.49	28.62	-71.24	-13.00	58.24	Horizontal
5	4227.5400	40.36	-45.91	29.65	-71.16	-13.00	58.16	Horizontal
6	4932.1300	40.78	-45.65	31.25	-68.88	-13.00	55.88	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409.1800	43.34	-48.03	25.10	-74.85	-13.00	61.85	Vertical
2	2113.7700	41.74	-47.71	26.22	-75.01	-13.00	62.01	Vertical
3	2818.3600	42.10	-46.85	27.94	-72.08	-13.00	59.08	Vertical
4	3522.9500	42.25	-46.49	28.62	-70.88	-13.00	57.88	Vertical
5	4227.5400	39.94	-45.91	29.65	-71.58	-13.00	58.58	Vertical
6	4932.1300	40.98	-45.65	31.25	-68.68	-13.00	55.68	Vertical



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Test Band = LTE Band17_ TM1
Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411.1800	44.17	-48.04	25.11	-74.02	-13.00	61.02	Horizontal
2	2116.7700	41.94	-47.70	26.23	-74.80	-13.00	61.80	Horizontal
3	2822.3600	42.31	-46.84	27.95	-71.84	-13.00	58.84	Horizontal
4	3527.9500	41.03	-46.48	28.63	-72.09	-13.00	59.09	Horizontal
5	4233.5400	40.17	-45.90	29.66	-71.33	-13.00	58.33	Horizontal
6	4939.1300	40.93	-45.67	31.27	-68.73	-13.00	55.73	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411.1800	43.63	-48.04	25.11	-74.56	-13.00	61.56	Vertical
2	2116.7700	42.64	-47.70	26.23	-74.10	-13.00	61.10	Vertical
3	2822.3600	42.25	-46.84	27.95	-71.90	-13.00	58.90	Vertical
4	3527.9500	41.21	-46.48	28.63	-71.91	-13.00	58.91	Vertical
5	4233.5400	40.93	-45.90	29.66	-70.57	-13.00	57.57	Vertical
6	4939.1300	41.21	-45.67	31.27	-68.45	-13.00	55.45	Vertical



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Test Band = LTE Band17_ TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.1800	43.67	-48.04	25.11	-74.53	-13.00	61.53	Horizontal
2	2119.7700	42.05	-47.70	26.24	-74.68	-13.00	61.68	Horizontal
3	2826.3600	41.99	-46.83	27.95	-72.14	-13.00	59.14	Horizontal
4	3532.9500	41.27	-46.47	28.63	-71.83	-13.00	58.83	Horizontal
5	4239.5400	41.28	-45.89	29.68	-70.19	-13.00	57.19	Horizontal
6	4946.1300	40.90	-45.69	31.28	-68.76	-13.00	55.76	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.1800	43.46	-48.04	25.11	-74.74	-13.00	61.74	Vertical
2	2119.7700	42.64	-47.70	26.24	-74.09	-13.00	61.09	Vertical
3	2826.3600	42.23	-46.83	27.95	-71.90	-13.00	58.90	Vertical
4	3532.9500	41.41	-46.47	28.63	-71.69	-13.00	58.69	Vertical
5	4239.5400	40.87	-45.89	29.68	-70.60	-13.00	57.60	Vertical
6	4946.1300	40.50	-45.69	31.28	-69.16	-13.00	56.16	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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