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# Appendix B.8

## LTE Band 17



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

### 1.1 B17\_5MHz\_ERP

#### 1.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	706.5	1	0	23.50	0.7	22.05	<=34.77	Pass		
			13	23.43	0.7	21.98	<=34.77	Pass		
			24	23.37	0.7	21.92	<=34.77	Pass		
		12	0	22.51	0.7	21.06	<=34.77	Pass		
			6	22.58	0.7	21.13	<=34.77	Pass		
			13	22.48	0.7	21.03	<=34.77	Pass		
		25	0	22.54	0.7	21.09	<=34.77	Pass		
		710	1	0	23.58	0.7	22.13	<=34.77	Pass	
				13	23.49	0.7	22.04	<=34.77	Pass	
	24			23.44	0.7	21.99	<=34.77	Pass		
	12		0	22.59	0.7	21.14	<=34.77	Pass		
			6	22.54	0.7	21.09	<=34.77	Pass		
			13	22.49	0.7	21.04	<=34.77	Pass		
	25		0	22.53	0.7	21.08	<=34.77	Pass		
	713.5		1	0	23.64	0.7	22.19	<=34.77	Pass	
				13	23.57	0.7	22.12	<=34.77	Pass	
		24		23.46	0.7	22.01	<=34.77	Pass		
		12	0	22.60	0.7	21.15	<=34.77	Pass		
			6	22.58	0.7	21.13	<=34.77	Pass		
			13	22.50	0.7	21.05	<=34.77	Pass		
		25	0	22.48	0.7	21.03	<=34.77	Pass		
		16QAM	706.5	1	0	22.46	0.7	21.01	<=34.77	Pass
					13	22.46	0.7	21.01	<=34.77	Pass
	24				22.35	0.7	20.9	<=34.77	Pass	
12	0			21.54	0.7	20.09	<=34.77	Pass		
	6			21.59	0.7	20.14	<=34.77	Pass		
	13			21.52	0.7	20.07	<=34.77	Pass		
25	0			21.62	0.7	20.17	<=34.77	Pass		
710	1			0	22.82	0.7	21.37	<=34.77	Pass	
				13	22.81	0.7	21.36	<=34.77	Pass	
			24	22.67	0.7	21.22	<=34.77	Pass		
	12		0	21.64	0.7	20.19	<=34.77	Pass		
			6	21.54	0.7	20.09	<=34.77	Pass		
			13	21.51	0.7	20.06	<=34.77	Pass		
	25		0	21.52	0.7	20.07	<=34.77	Pass		
	713.5		1	0	22.86	0.7	21.41	<=34.77	Pass	
				13	22.75	0.7	21.3	<=34.77	Pass	



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64QAM	706.5	12	24	22.62	0.7	21.17	<=34.77	Pass	
			0	21.57	0.7	20.12	<=34.77	Pass	
			6	21.60	0.7	20.15	<=34.77	Pass	
		25	13	21.51	0.7	20.06	<=34.77	Pass	
			0	21.53	0.7	20.08	<=34.77	Pass	
			1	21.75	0.7	20.3	<=34.77	Pass	
	710	1	13	21.83	0.7	20.38	<=34.77	Pass	
			24	21.70	0.7	20.25	<=34.77	Pass	
			0	20.72	0.7	19.27	<=34.77	Pass	
		12	6	20.73	0.7	19.28	<=34.77	Pass	
			13	20.65	0.7	19.2	<=34.77	Pass	
			0	20.65	0.7	19.2	<=34.77	Pass	
713.5	1	0	22.08	0.7	20.63	<=34.77	Pass		
		13	22.01	0.7	20.56	<=34.77	Pass		
		24	22.02	0.7	20.57	<=34.77	Pass		
	12	0	22.03	0.7	20.58	<=34.77	Pass		
		6	22.02	0.7	20.57	<=34.77	Pass		
		13	22.03	0.7	20.58	<=34.77	Pass		
25	0	22.02	0.7	20.57	<=34.77	Pass			
	1	21.80	0.7	20.35	<=34.77	Pass			
	13	21.86	0.7	20.41	<=34.77	Pass			
	24	21.88	0.7	20.43	<=34.77	Pass			
	12	21.83	0.7	20.38	<=34.77	Pass			
	6	21.84	0.7	20.39	<=34.77	Pass			
13	21.86	0.7	20.41	<=34.77	Pass				
0	21.87	0.7	20.42	<=34.77	Pass				
256QAM	706.5	1	0	18.82	0.7	17.37	<=34.77	Pass	
			13	18.85	0.7	17.4	<=34.77	Pass	
			24	18.82	0.7	17.37	<=34.77	Pass	
		12	0	18.71	0.7	17.26	<=34.77	Pass	
			6	18.74	0.7	17.29	<=34.77	Pass	
			13	18.68	0.7	17.23	<=34.77	Pass	
		25	0	18.73	0.7	17.28	<=34.77	Pass	
		710	1	0	18.77	0.7	17.32	<=34.77	Pass
				13	18.75	0.7	17.3	<=34.77	Pass
	24			18.63	0.7	17.18	<=34.77	Pass	
	12		0	18.73	0.7	17.28	<=34.77	Pass	
			6	18.72	0.7	17.27	<=34.77	Pass	
			13	18.70	0.7	17.25	<=34.77	Pass	
	25		0	18.73	0.7	17.28	<=34.77	Pass	
	713.5		1	0	18.51	0.7	17.06	<=34.77	Pass
				13	18.45	0.7	17	<=34.77	Pass
		24		18.39	0.7	16.94	<=34.77	Pass	
		12	0	18.78	0.7	17.33	<=34.77	Pass	
			6	18.75	0.7	17.3	<=34.77	Pass	
			13	18.70	0.7	17.25	<=34.77	Pass	
	25	0	18.67	0.7	17.22	<=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 / NTN									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	709	1	0	23.50	0.7	22.05	<=34.77	Pass	
			25	23.49	0.7	22.04	<=34.77	Pass	
			49	23.44	0.7	21.99	<=34.77	Pass	
		25	0	22.55	0.7	21.1	<=34.77	Pass	
			13	22.62	0.7	21.17	<=34.77	Pass	
			25	22.56	0.7	21.11	<=34.77	Pass	
		50	0	22.62	0.7	21.17	<=34.77	Pass	
			1	0	23.46	0.7	22.01	<=34.77	Pass
				25	23.40	0.7	21.95	<=34.77	Pass
	49	23.43		0.7	21.98	<=34.77	Pass		
	710	25	0	22.58	0.7	21.13	<=34.77	Pass	
			13	22.60	0.7	21.15	<=34.77	Pass	
			25	22.56	0.7	21.11	<=34.77	Pass	
		50	0	22.56	0.7	21.11	<=34.77	Pass	
			1	0	23.54	0.7	22.09	<=34.77	Pass
				25	23.50	0.7	22.05	<=34.77	Pass
		49		23.39	0.7	21.94	<=34.77	Pass	
		711	25	0	22.57	0.7	21.12	<=34.77	Pass
				13	22.55	0.7	21.1	<=34.77	Pass
	25			22.56	0.7	21.11	<=34.77	Pass	
	50		0	22.59	0.7	21.14	<=34.77	Pass	
			1	0	23.19	0.7	21.74	<=34.77	Pass
				25	23.08	0.7	21.63	<=34.77	Pass
	16QAM	709		1	49	23.07	0.7	21.62	<=34.77
25			0		21.57	0.7	20.12	<=34.77	Pass
			13		21.72	0.7	20.27	<=34.77	Pass
			25	21.59	0.7	20.14	<=34.77	Pass	
50			0	21.59	0.7	20.14	<=34.77	Pass	
			1	0	22.72	0.7	21.27	<=34.77	Pass
		25		22.68	0.7	21.23	<=34.77	Pass	
49		22.61		0.7	21.16	<=34.77	Pass		
710		25	0	21.58	0.7	20.13	<=34.77	Pass	
			13	21.61	0.7	20.16	<=34.77	Pass	
			25	21.56	0.7	20.11	<=34.77	Pass	
		50	0	21.52	0.7	20.07	<=34.77	Pass	
			1	0	22.58	0.7	21.13	<=34.77	Pass
				25	22.41	0.7	20.96	<=34.77	Pass
711		1		49	22.53	0.7	21.08	<=34.77	Pass



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64QAM	709	25	0	21.69	0.7	20.24	<=34.77	Pass	
			13	21.64	0.7	20.19	<=34.77	Pass	
			25	21.63	0.7	20.18	<=34.77	Pass	
		50	0	21.61	0.7	20.16	<=34.77	Pass	
			1	21.52	0.7	20.07	<=34.77	Pass	
			25	21.52	0.7	20.07	<=34.77	Pass	
	710	25	1	49	21.54	0.7	20.09	<=34.77	Pass
				0	21.55	0.7	20.1	<=34.77	Pass
				13	21.56	0.7	20.11	<=34.77	Pass
			50	25	21.57	0.7	20.12	<=34.77	Pass
				0	21.54	0.7	20.09	<=34.77	Pass
				1	21.61	0.7	20.16	<=34.77	Pass
711		1	25	21.64	0.7	20.19	<=34.77	Pass	
			49	21.67	0.7	20.22	<=34.77	Pass	
			0	21.67	0.7	20.22	<=34.77	Pass	
		25	13	21.65	0.7	20.2	<=34.77	Pass	
			25	21.67	0.7	20.22	<=34.77	Pass	
			0	21.63	0.7	20.18	<=34.77	Pass	
256QAM	709	1	0	21.90	0.7	20.45	<=34.77	Pass	
			25	21.81	0.7	20.36	<=34.77	Pass	
			49	21.87	0.7	20.42	<=34.77	Pass	
		25	0	21.88	0.7	20.43	<=34.77	Pass	
			13	21.82	0.7	20.37	<=34.77	Pass	
			25	21.89	0.7	20.44	<=34.77	Pass	
	710	50	1	0	21.83	0.7	20.38	<=34.77	Pass
				25	19.20	0.7	17.75	<=34.77	Pass
				49	19.23	0.7	17.78	<=34.77	Pass
			25	0	18.77	0.7	17.32	<=34.77	Pass
				13	18.82	0.7	17.37	<=34.77	Pass
				25	18.72	0.7	17.27	<=34.77	Pass
711		1	0	18.77	0.7	17.32	<=34.77	Pass	
			25	18.52	0.7	17.07	<=34.77	Pass	
			49	18.46	0.7	17.01	<=34.77	Pass	
		25	0	18.40	0.7	16.95	<=34.77	Pass	
			13	18.72	0.7	17.27	<=34.77	Pass	
			25	18.74	0.7	17.29	<=34.77	Pass	
711	50	25	18.67	0.7	17.22	<=34.77	Pass		
		0	18.61	0.7	17.16	<=34.77	Pass		
		1	18.72	0.7	17.27	<=34.77	Pass		
	1	25	18.66	0.7	17.21	<=34.77	Pass		
		49	18.65	0.7	17.2	<=34.77	Pass		
		0	18.76	0.7	17.31	<=34.77	Pass		
25	13	18.72	0.7	17.27	<=34.77	Pass			
	25	18.76	0.7	17.31	<=34.77	Pass			
	0	18.71	0.7	17.26	<=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	Limit		
QPSK	706.5	25	0	20	3.55	1.373	0.0019	/	Pass	
					4.0	1.760	0.0025	/	Pass	
					4.4	0.558	0.0008	/	Pass	
				-30	4.0	0.401	0.0006	/	Pass	
					-20	4.0	0.801	0.0011	/	Pass
					-10	4.0	0.558	0.0008	/	Pass
				0	4.0	0.229	0.0003	/	Pass	
					10	4.0	0.601	0.0009	/	Pass
					30	4.0	-0.515	-0.0007	/	Pass
	710	25	0	20	3.55	0.172	0.0002	/	Pass	
					4.0	-0.472	-0.0007	/	Pass	
					4.4	-0.172	-0.0002	/	Pass	
				-30	4.0	0.172	0.0002	/	Pass	
					-20	4.0	-0.014	0.0000	/	Pass
					-10	4.0	-0.272	-0.0004	/	Pass
				0	4.0	0.744	0.0010	/	Pass	
					10	4.0	0.072	0.0001	/	Pass
					30	4.0	-0.429	-0.0006	/	Pass
	713.5	25	0	20	3.55	-0.701	-0.0010	/	Pass	
					4.0	-0.372	-0.0005	/	Pass	
					4.4	0.029	0.0000	/	Pass	
				-30	4.0	-0.043	-0.0001	/	Pass	
					-20	4.0	0.243	0.0003	/	Pass
					-10	4.0	-1.416	-0.0020	/	Pass
				0	4.0	-0.615	-0.0009	/	Pass	
					10	4.0	0.687	0.0010	/	Pass
					30	4.0	-1.073	-0.0015	/	Pass
16QAM	706.5	25	0	20	3.55	-0.157	-0.0002	/	Pass	
					4.0	-0.472	-0.0007	/	Pass	
					4.4	0.014	0.0000	/	Pass	
				-30	4.0	-0.157	-0.0002	/	Pass	



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64QAM	710	25	0	-20	4.0	0.029	0.0000	/	Pass
				-10	4.0	0.415	0.0006	/	Pass
				0	4.0	0.157	0.0002	/	Pass
				10	4.0	-0.644	-0.0009	/	Pass
				30	4.0	-0.386	-0.0005	/	Pass
				40	4.0	-0.758	-0.0011	/	Pass
				50	4.0	-0.372	-0.0005	/	Pass
	713.5	25	0	20	3.55	0.930	0.0013	/	Pass
					4.0	1.731	0.0024	/	Pass
					4.4	1.101	0.0016	/	Pass
				-30	4.0	1.431	0.0020	/	Pass
				-20	4.0	1.302	0.0018	/	Pass
				-10	4.0	1.345	0.0019	/	Pass
				0	4.0	1.059	0.0015	/	Pass
				10	4.0	0.415	0.0006	/	Pass
				30	4.0	0.372	0.0005	/	Pass
				40	4.0	0.887	0.0012	/	Pass
				50	4.0	0.415	0.0006	/	Pass
	706.5	25	0	20	3.55	0.300	0.0004	/	Pass
					4.0	-0.086	-0.0001	/	Pass
					4.4	-0.057	-0.0001	/	Pass
				-30	4.0	-0.358	-0.0005	/	Pass
				-20	4.0	-0.100	-0.0001	/	Pass
				-10	4.0	-0.629	-0.0009	/	Pass
				0	4.0	0.644	0.0009	/	Pass
				10	4.0	0.458	0.0006	/	Pass
				30	4.0	-0.472	-0.0007	/	Pass
				40	4.0	0.086	0.0001	/	Pass
50				4.0	-0.014	0.0000	/	Pass	
710	25	0	20	3.55	-0.186	-0.0003	/	Pass	
				4.0	-0.916	-0.0013	/	Pass	
				4.4	-1.287	-0.0018	/	Pass	
			-30	4.0	-0.644	-0.0009	/	Pass	
			-20	4.0	-0.300	-0.0004	/	Pass	
			-10	4.0	-1.245	-0.0018	/	Pass	
			0	4.0	-0.973	-0.0014	/	Pass	
			10	4.0	-0.701	-0.0010	/	Pass	
			30	4.0	-0.930	-0.0013	/	Pass	
			40	4.0	-0.401	-0.0006	/	Pass	
			50	4.0	-1.116	-0.0016	/	Pass	
710	25	0	20	3.55	0.687	0.0010	/	Pass	
				4.0	1.202	0.0017	/	Pass	
				4.4	0.815	0.0011	/	Pass	
			-30	4.0	0.801	0.0011	/	Pass	
			-20	4.0	1.359	0.0019	/	Pass	
			-10	4.0	0.844	0.0012	/	Pass	
			0	4.0	0.758	0.0011	/	Pass	
10	4.0	0.644	0.0009	/	Pass				



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				30	4.0	0.787	0.0011	/	Pass			
				40	4.0	1.001	0.0014	/	Pass			
				50	4.0	1.001	0.0014	/	Pass			
				713.5	25	0	20	3.55	-0.157	-0.0002	/	Pass
								4.0	-0.157	-0.0002	/	Pass
								4.4	-0.186	-0.0003	/	Pass
				-30	4.0	-1.101	-0.0015	/	Pass			
				-20	4.0	-0.572	-0.0008	/	Pass			
				-10	4.0	-0.973	-0.0014	/	Pass			
				0	4.0	-0.701	-0.0010	/	Pass			
				10	4.0	0.458	0.0006	/	Pass			
				30	4.0	-0.544	-0.0008	/	Pass			
40	4.0	-0.143	-0.0002	/	Pass							
50	4.0	0.186	0.0003	/	Pass							
				20	3.55	-0.558	-0.0008	/	Pass			
					4.0	0.029	0.0000	/	Pass			
					4.4	0.057	0.0001	/	Pass			
				-30	4.0	0.086	0.0001	/	Pass			
				-20	4.0	-0.257	-0.0004	/	Pass			
				-10	4.0	0.086	0.0001	/	Pass			
				0	4.0	0.100	0.0001	/	Pass			
				10	4.0	0.300	0.0004	/	Pass			
				30	4.0	-0.157	-0.0002	/	Pass			
				40	4.0	-1.016	-0.0014	/	Pass			
				50	4.0	-0.072	-0.0001	/	Pass			
				256QAM	710	25	0	20	3.55	0.544	0.0008	/
4.0	0.772	0.0011	/						Pass			
4.4	0.758	0.0011	/						Pass			
-30	4.0	0.300	0.0004					/	Pass			
-20	4.0	0.472	0.0007					/	Pass			
-10	4.0	0.114	0.0002					/	Pass			
0	4.0	0.243	0.0003					/	Pass			
10	4.0	0.787	0.0011					/	Pass			
30	4.0	0.129	0.0002					/	Pass			
40	4.0	0.229	0.0003					/	Pass			
50	4.0	0.887	0.0012					/	Pass			
	713.5	25	0					20	3.55	-0.343	-0.0005	/
				4.0	-0.529	-0.0007	/		Pass			
				4.4	-0.744	-0.0010	/		Pass			
				-30	4.0	-0.916	-0.0013	/	Pass			
				-20	4.0	-1.101	-0.0015	/	Pass			
				-10	4.0	-0.672	-0.0009	/	Pass			
				0	4.0	-0.958	-0.0013	/	Pass			
				10	4.0	-1.030	-0.0014	/	Pass			
				30	4.0	-0.715	-0.0010	/	Pass			
				40	4.0	-1.130	-0.0016	/	Pass			
				50	4.0	-0.873	-0.0012	/	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	Limit		
QPSK	709	50	0	20	3.55	0.758	0.0011	/	Pass	
					4.0	-0.072	-0.0001	/	Pass	
					4.4	0.029	0.0000	/	Pass	
				-30	4.0	0.515	0.0007	/	Pass	
					4.0	0.172	0.0002	/	Pass	
					4.0	0.958	0.0014	/	Pass	
				-10	4.0	-0.257	-0.0004	/	Pass	
					10	4.0	-0.172	-0.0002	/	Pass
					30	4.0	0.043	0.0001	/	Pass
				710	50	0	20	3.55	-1.116	-0.0016
	4.0	-0.587	-0.0008					/	Pass	
	4.4	-0.529	-0.0007					/	Pass	
	-30	4.0	-1.674				-0.0024	/	Pass	
		4.0	-0.701				-0.0010	/	Pass	
		4.0	-0.958				-0.0013	/	Pass	
	-10	4.0	0.043				0.0001	/	Pass	
		10	4.0				-0.873	-0.0012	/	Pass
		30	4.0				-1.087	-0.0015	/	Pass
	711	50	0				20	3.55	0.501	0.0007
				4.0	0.772	0.0011		/	Pass	
				4.4	0.458	0.0006		/	Pass	
				-30	4.0	-0.343	-0.0005	/	Pass	
					4.0	0.186	0.0003	/	Pass	
					4.0	-0.143	-0.0002	/	Pass	
				-10	4.0	-0.429	-0.0006	/	Pass	
					10	4.0	0.772	0.0011	/	Pass
					30	4.0	-0.029	0.0000	/	Pass
				16QAM	709	50	0	20	3.55	0.572
	4.0	-0.172	-0.0002						/	Pass
	4.4	0.129	0.0002						/	Pass
-30	4.0	-0.401	-0.0006					/	Pass	
	4.0	0.186	0.0003					/	Pass	
	4.0	-0.343	-0.0005					/	Pass	
-10	4.0	-0.472	-0.0007					/	Pass	



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64QAM	710	50	0	10	4.0	-0.672	-0.0009	/	Pass				
				30	4.0	-0.815	-0.0011	/	Pass				
				40	4.0	0.443	0.0006	/	Pass				
				50	4.0	-0.243	-0.0003	/	Pass				
				20	3.55	-1.230	-0.0017	/	Pass				
					4.0	-0.887	-0.0012	/	Pass				
					4.4	-0.873	-0.0012	/	Pass				
					-30	4.0	-1.159	-0.0016	/	Pass			
					-20	4.0	-0.372	-0.0005	/	Pass			
					-10	4.0	-0.887	-0.0012	/	Pass			
					0	4.0	-0.443	-0.0006	/	Pass			
					10	4.0	-1.173	-0.0017	/	Pass			
	30	4.0	-1.287		-0.0018	/	Pass						
	40	4.0	-1.574		-0.0022	/	Pass						
	50	4.0	-1.173	-0.0017	/	Pass							
	711	50	0	0	20	3.55	-0.615	-0.0009	/	Pass			
					4.0	0.443	0.0006	/	Pass				
					4.4	-0.072	-0.0001	/	Pass				
					-30	4.0	-0.172	-0.0002	/	Pass			
					-20	4.0	0.300	0.0004	/	Pass			
					-10	4.0	0.072	0.0001	/	Pass			
					0	4.0	-0.343	-0.0005	/	Pass			
					10	4.0	0.014	0.0000	/	Pass			
					30	4.0	1.030	0.0014	/	Pass			
					40	4.0	-0.300	-0.0004	/	Pass			
	50	4.0	-0.501	-0.0007	/	Pass							
	709	50	0	0	20	3.55	-0.329	-0.0005	/	Pass			
						4.0	-1.016	-0.0014	/	Pass			
4.4						-0.558	-0.0008	/	Pass				
-30					4.0	-0.744	-0.0010	/	Pass				
-20					4.0	-0.587	-0.0008	/	Pass				
-10					4.0	-1.101	-0.0016	/	Pass				
0					4.0	-0.987	-0.0014	/	Pass				
10					4.0	-1.545	-0.0022	/	Pass				
30					4.0	0.200	0.0003	/	Pass				
40					4.0	-1.101	-0.0016	/	Pass				
50					4.0	-0.701	-0.0010	/	Pass				
710					50	0	0	20	3.55	-0.944	-0.0013	/	Pass
									4.0	-0.114	-0.0002	/	Pass
									4.4	-0.958	-0.0013	/	Pass
								-30	4.0	-0.587	-0.0008	/	Pass
								-20	4.0	-0.272	-0.0004	/	Pass
								-10	4.0	-1.230	-0.0017	/	Pass
								0	4.0	-1.373	-0.0019	/	Pass
	10	4.0	-1.044	-0.0015				/	Pass				
	30	4.0	-0.043	-0.0001				/	Pass				
40	4.0	-0.358	-0.0005	/	Pass								
50	4.0	-0.486	-0.0007	/	Pass								



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	711	50	0	20	3.55	-1.273	-0.0018	/	Pass					
					4.0	-0.215	-0.0003	/	Pass					
					4.4	-0.672	-0.0009	/	Pass					
				-30	4.0	-0.901	-0.0013	/	Pass					
					-20	4.0	-0.343	-0.0005	/	Pass				
					-10	4.0	-0.486	-0.0007	/	Pass				
				0	4.0	-0.529	-0.0007	/	Pass					
					10	4.0	-0.358	-0.0005	/	Pass				
					30	4.0	-0.629	-0.0009	/	Pass				
					40	4.0	0.114	0.0002	/	Pass				
					50	4.0	0.014	0.0000	/	Pass				
						709	50	0	20	3.55	-0.615	-0.0009	/	Pass
										4.0	-0.157	-0.0002	/	Pass
4.4	-0.114	-0.0002	/	Pass										
-30	4.0	-0.701	-0.0010	/					Pass					
	-20	4.0	-0.758	-0.0011					/	Pass				
	-10	4.0	-1.388	-0.0020					/	Pass				
0	4.0	-0.787	-0.0011	/					Pass					
	10	4.0	-0.243	-0.0003					/	Pass				
	30	4.0	-0.958	-0.0014					/	Pass				
	40	4.0	-0.672	-0.0009					/	Pass				
	50	4.0	-1.302	-0.0018					/	Pass				
	256QAM	710	50	0					20	3.55	-0.401	-0.0006	/	Pass
										4.0	-1.101	-0.0016	/	Pass
4.4					-1.287	-0.0018	/	Pass						
-30					4.0	-1.516	-0.0021	/	Pass					
					-20	4.0	-0.858	-0.0012	/	Pass				
					-10	4.0	-0.873	-0.0012	/	Pass				
0					4.0	-0.315	-0.0004	/	Pass					
					10	4.0	-1.044	-0.0015	/	Pass				
					30	4.0	-0.672	-0.0009	/	Pass				
					40	4.0	-1.116	-0.0016	/	Pass				
					50	4.0	-0.887	-0.0012	/	Pass				
						711	50	0	20	3.55	0.286	0.0004	/	Pass
										4.0	-0.772	-0.0011	/	Pass
4.4	-0.072	-0.0001	/	Pass										
-30	4.0	-0.486	-0.0007	/					Pass					
	-20	4.0	-1.316	-0.0019					/	Pass				
	-10	4.0	-1.245	-0.0018					/	Pass				
0	4.0	-0.386	-0.0005	/					Pass					
	10	4.0	-0.629	-0.0009					/	Pass				
	30	4.0	-1.101	-0.0015					/	Pass				
	40	4.0	-0.815	-0.0011					/	Pass				
	50	4.0	-0.830	-0.0012					/	Pass				



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## 3. 99% & 26dB Bandwidth

### 3.1 Band17\_OBW

#### 3.1.1 Test Result

Band: 17 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
5	QPSK	706.5	25	0	4.533	/	Pass
		710	25	0	4.564	/	Pass
		713.5	25	0	4.572	/	Pass
	16QAM	706.5	25	0	4.540	/	Pass
		710	25	0	4.564	/	Pass
		713.5	25	0	4.538	/	Pass
	64QAM	706.5	25	0	4.541	/	Pass
		710	25	0	4.565	/	Pass
		713.5	25	0	4.547	/	Pass
	256QAM	706.5	25	0	4.551	/	Pass
		710	25	0	4.561	/	Pass
		713.5	25	0	4.547	/	Pass
10	QPSK	709	50	0	9.067	/	Pass
		710	50	0	9.082	/	Pass
		711	50	0	9.051	/	Pass
	16QAM	709	50	0	9.043	/	Pass
		710	50	0	9.036	/	Pass
		711	50	0	9.069	/	Pass
	64QAM	709	50	0	9.013	/	Pass
		710	50	0	9.043	/	Pass
		711	50	0	9.057	/	Pass
	256QAM	709	50	0	9.041	/	Pass
		710	50	0	9.067	/	Pass
		711	50	0	9.086	/	Pass



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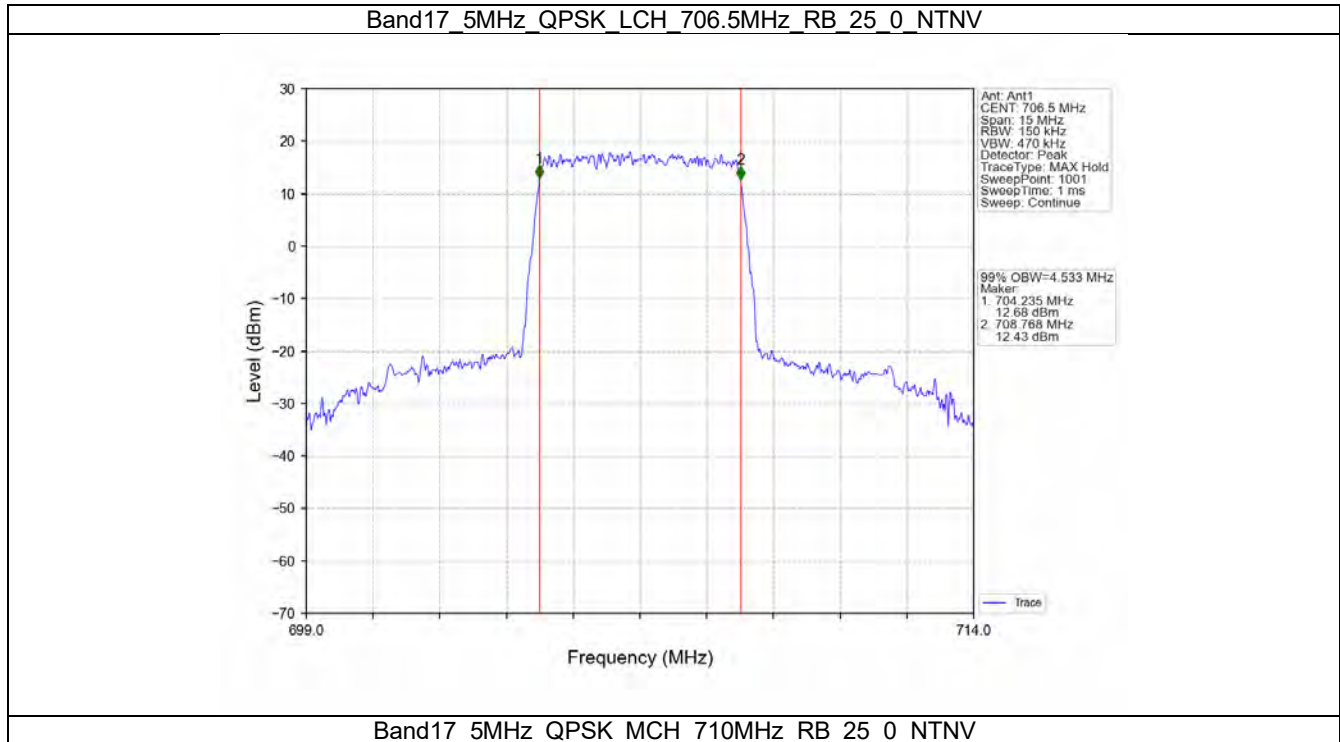
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3.1.2 Test Graph



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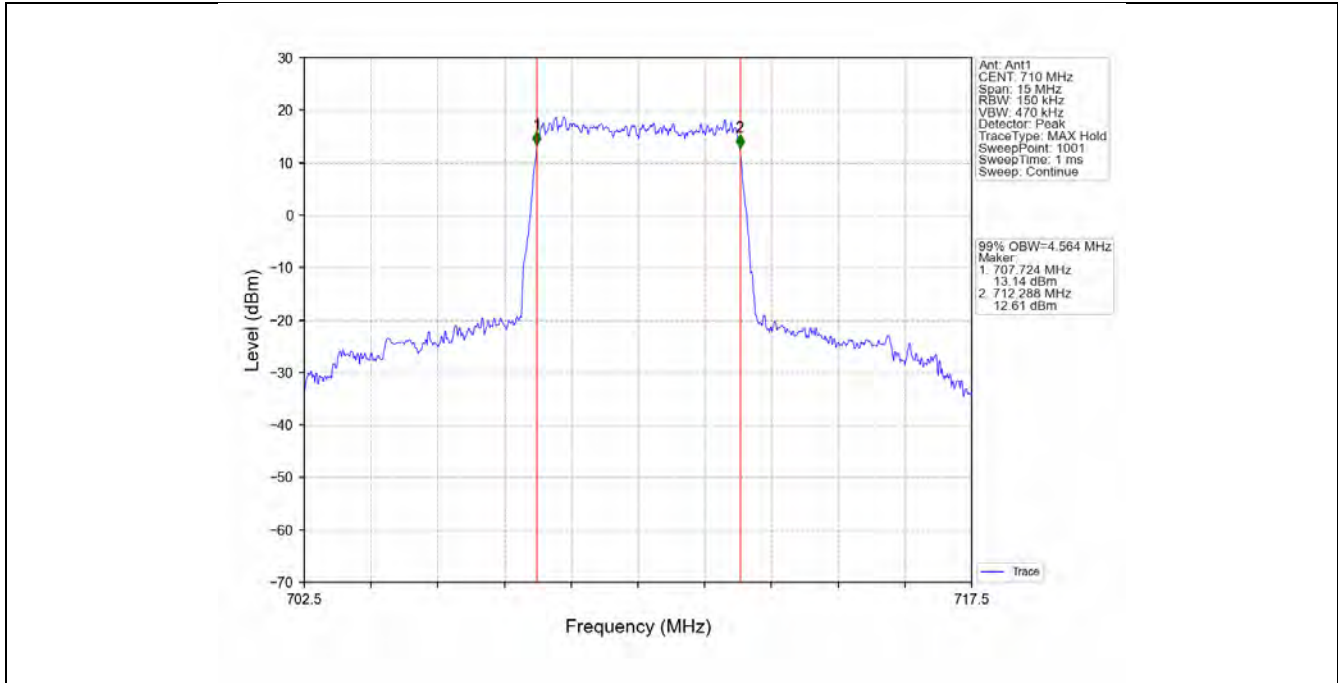


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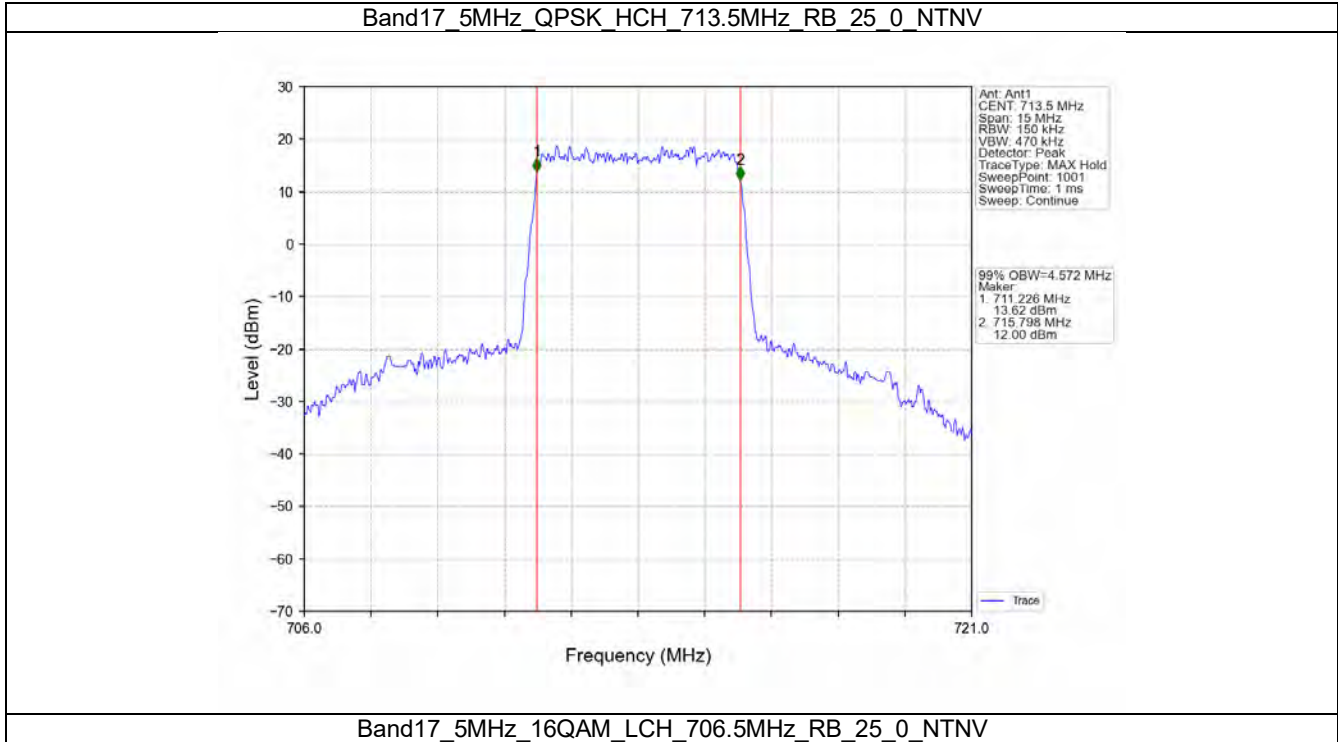


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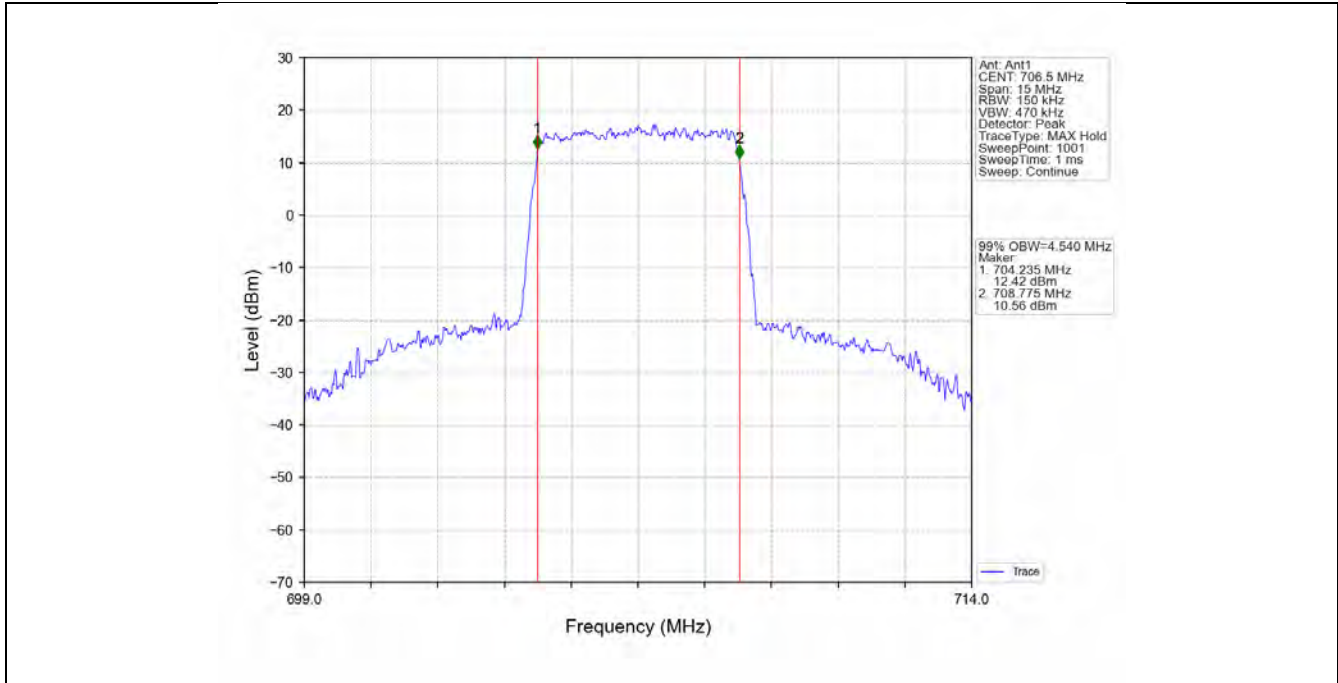


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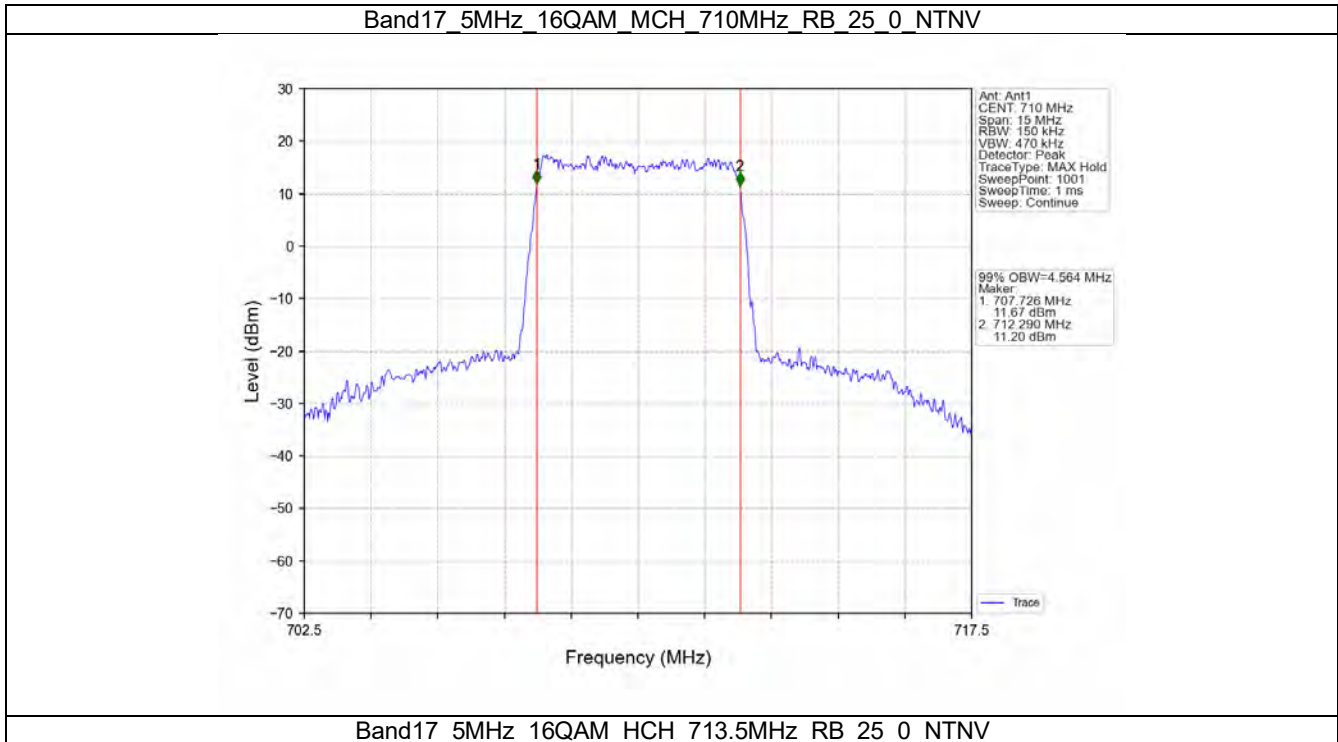


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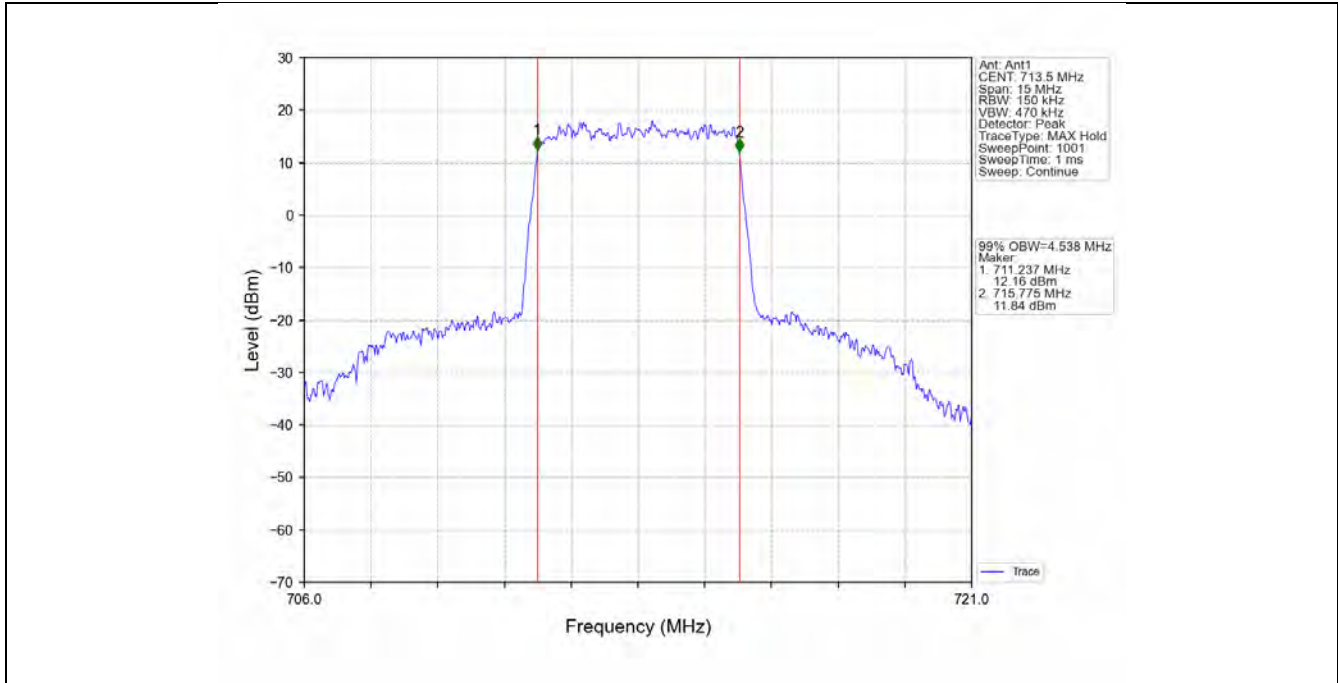


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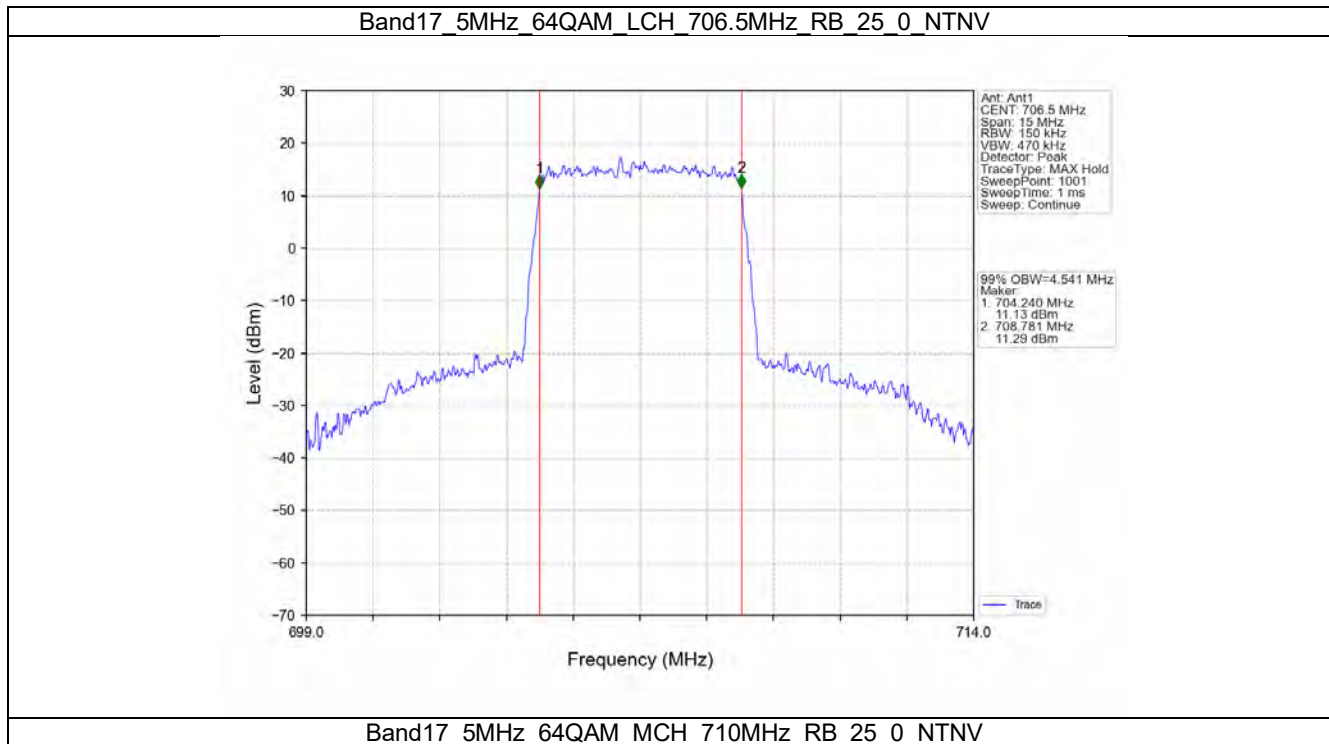
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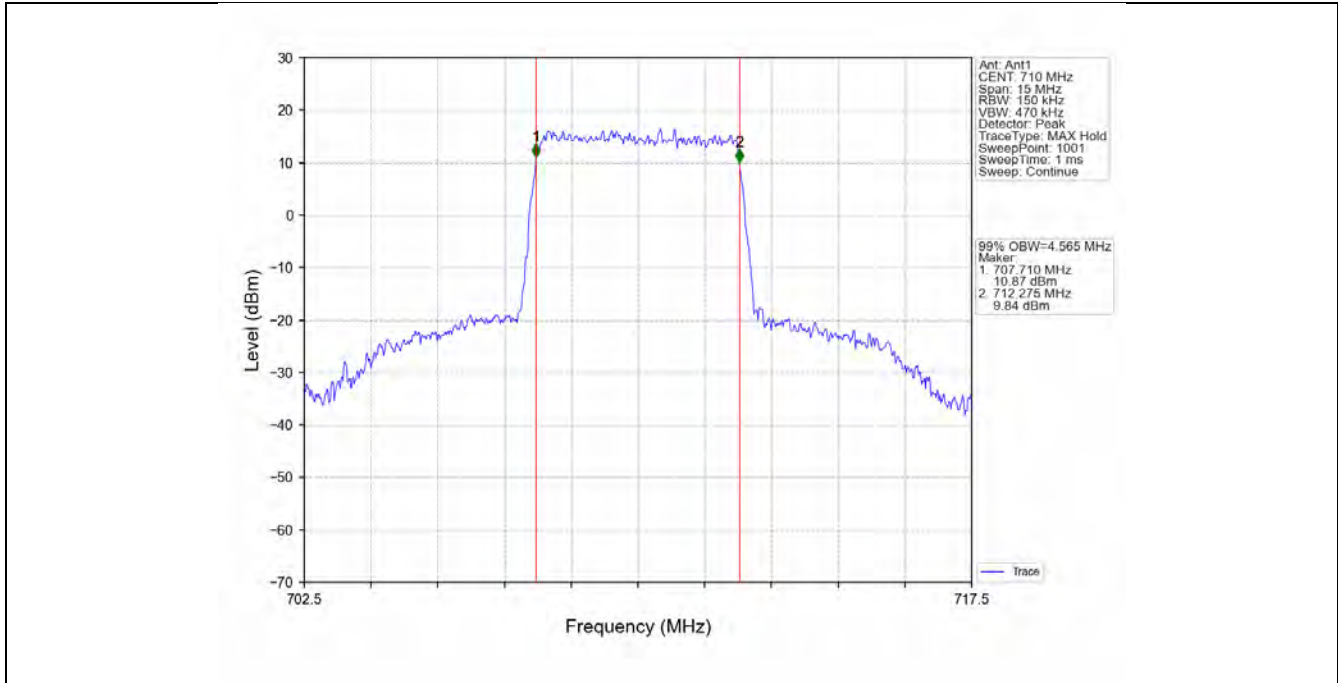


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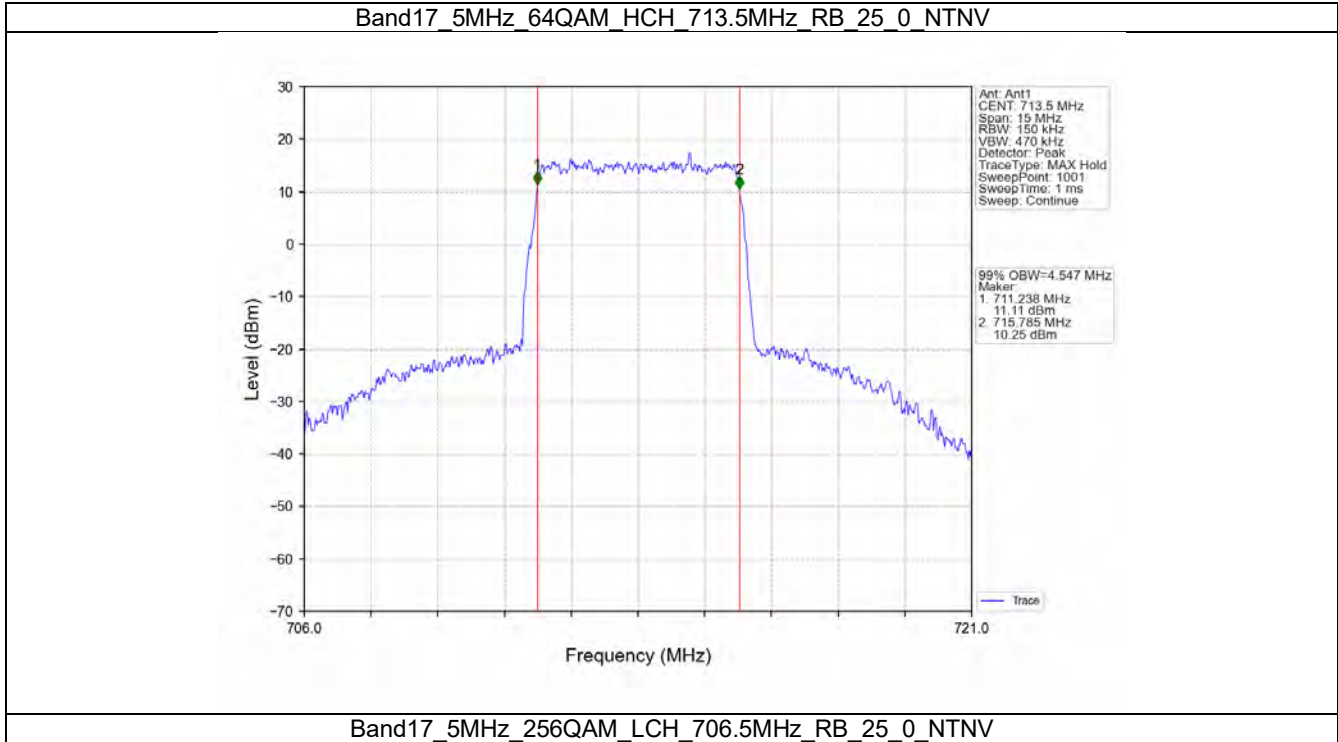


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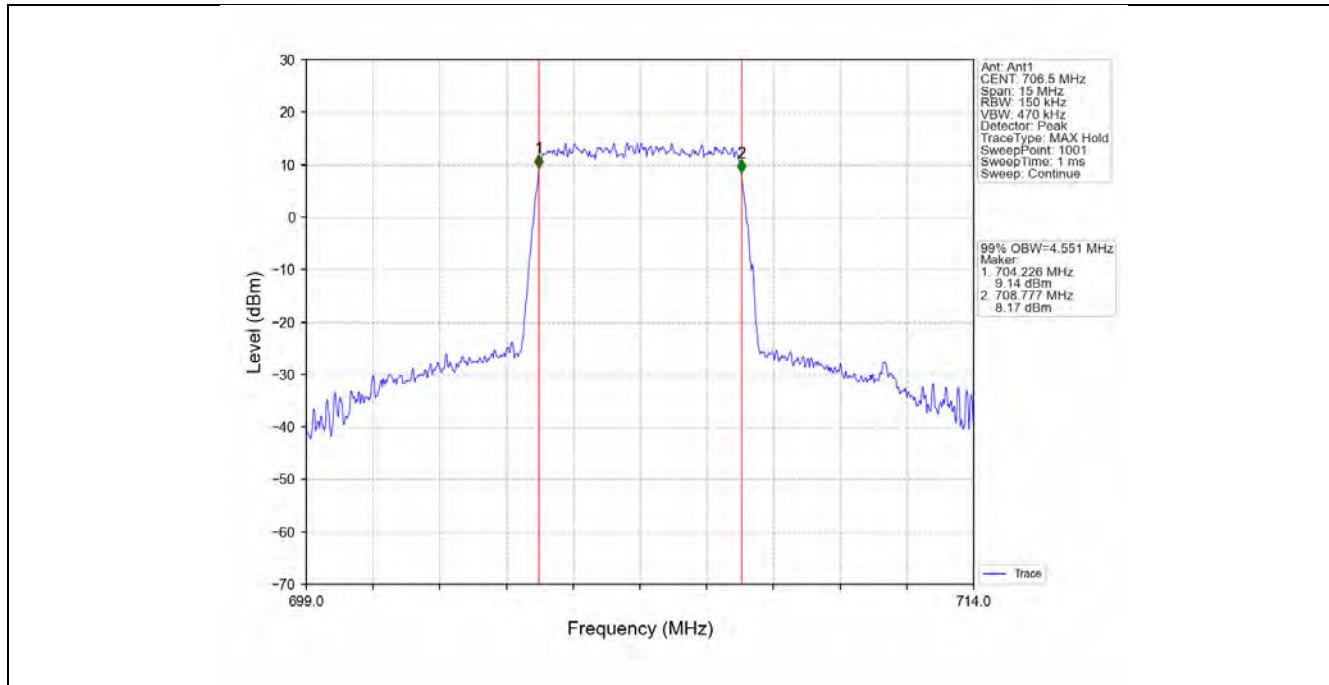
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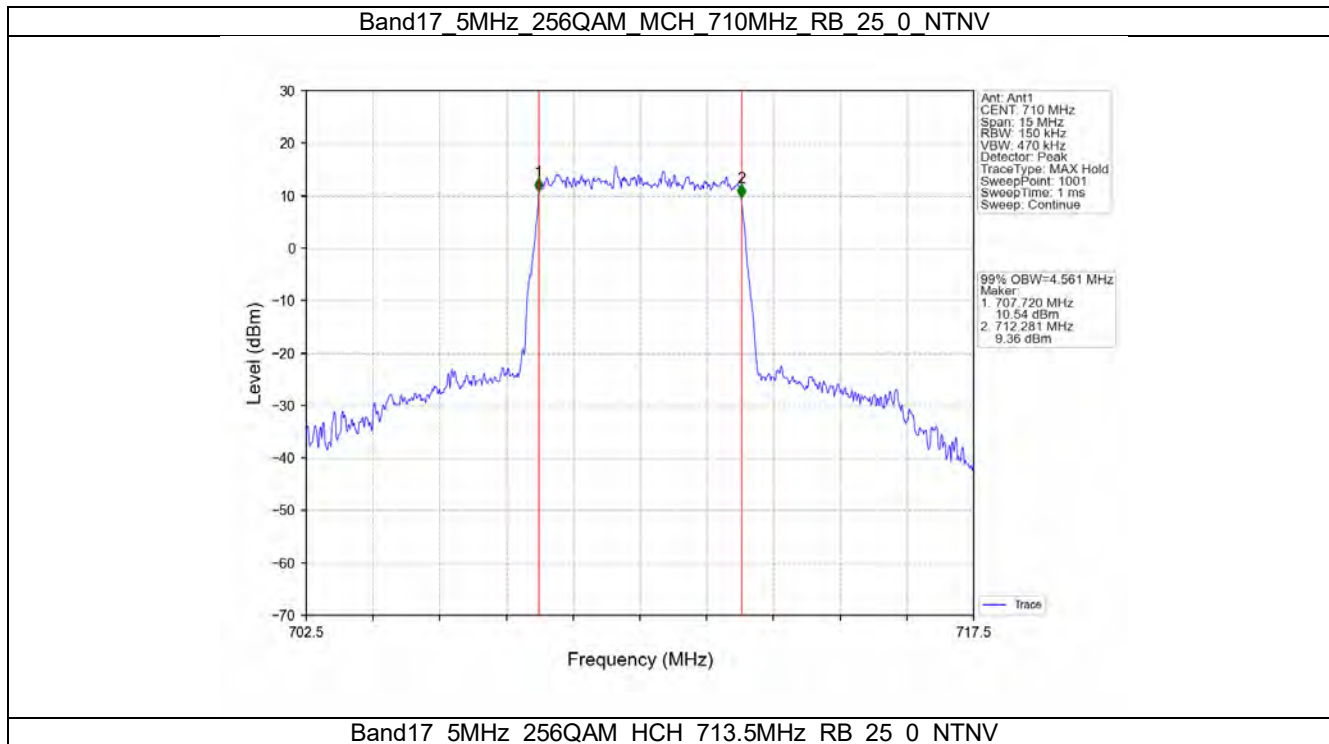
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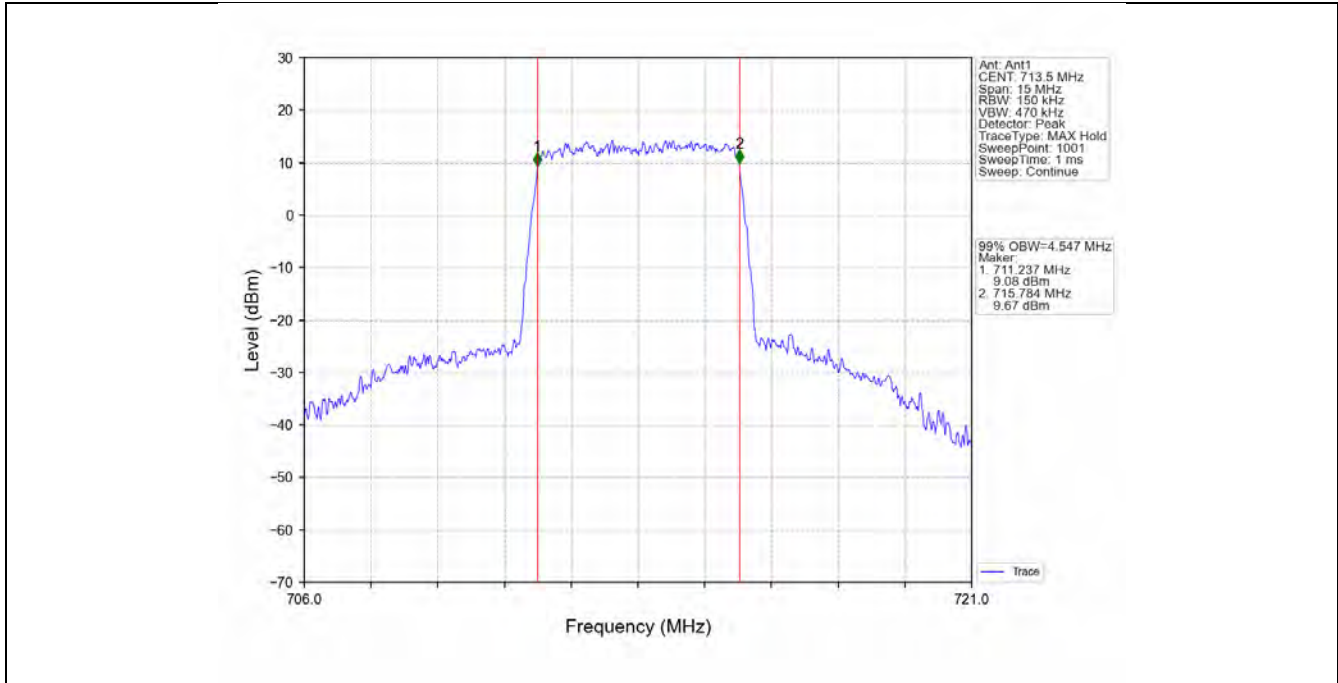


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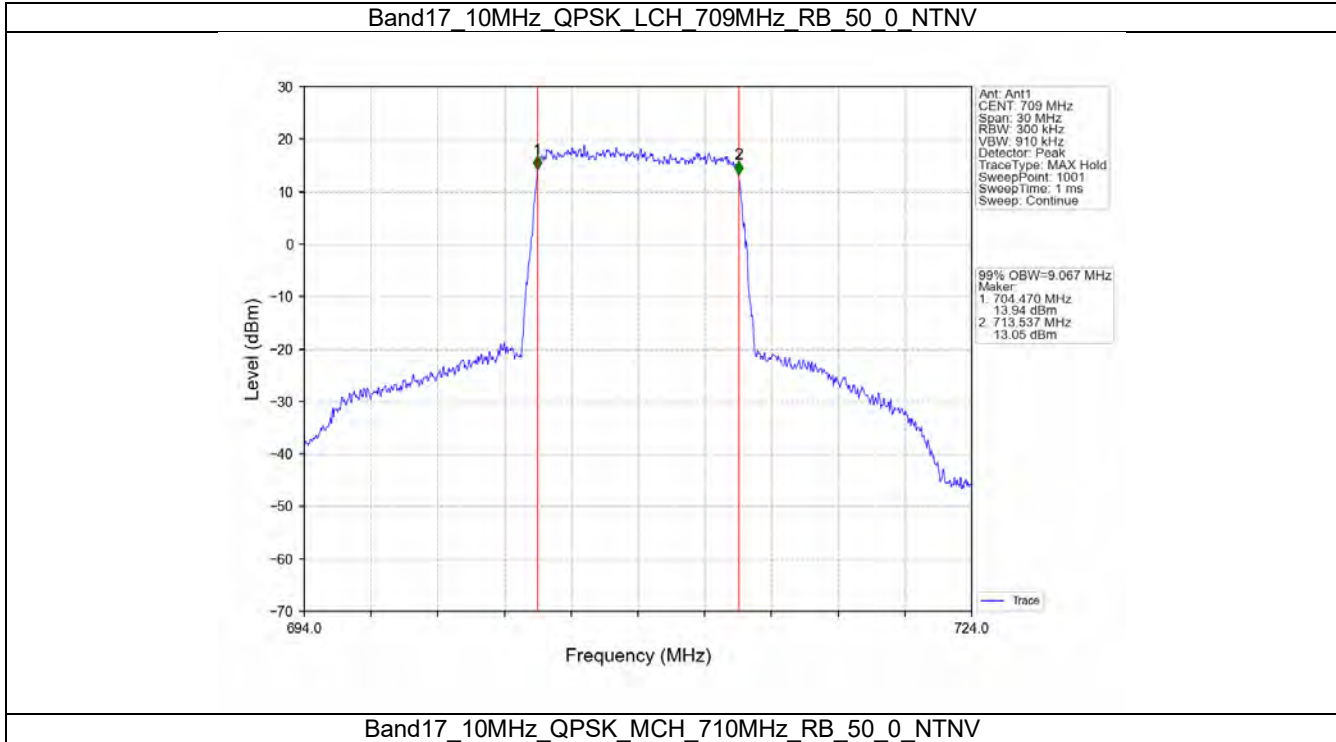


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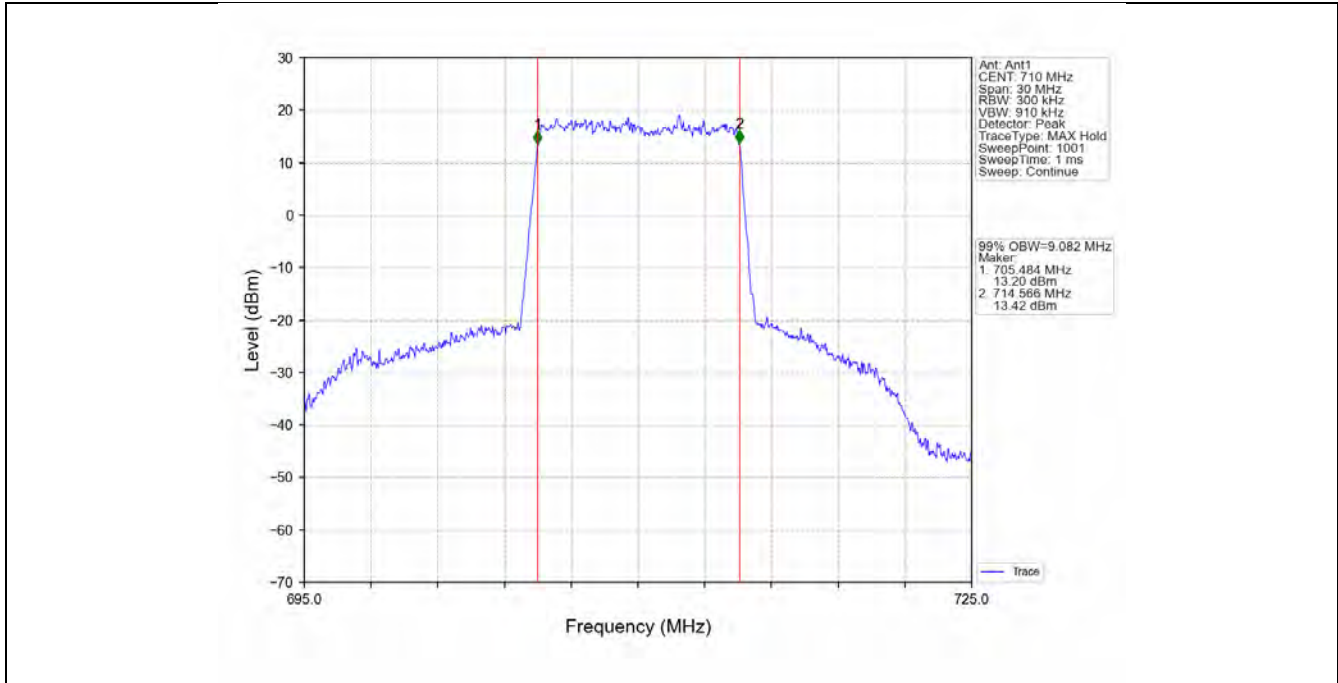


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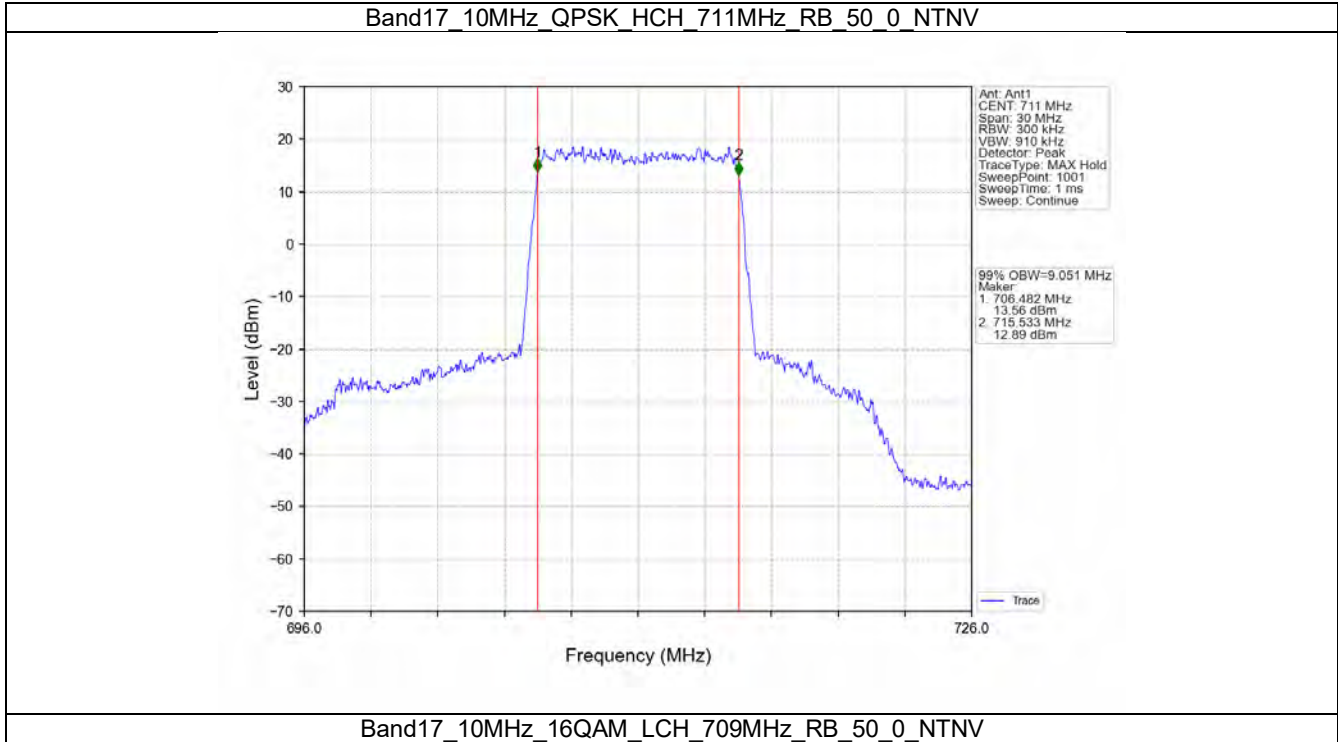


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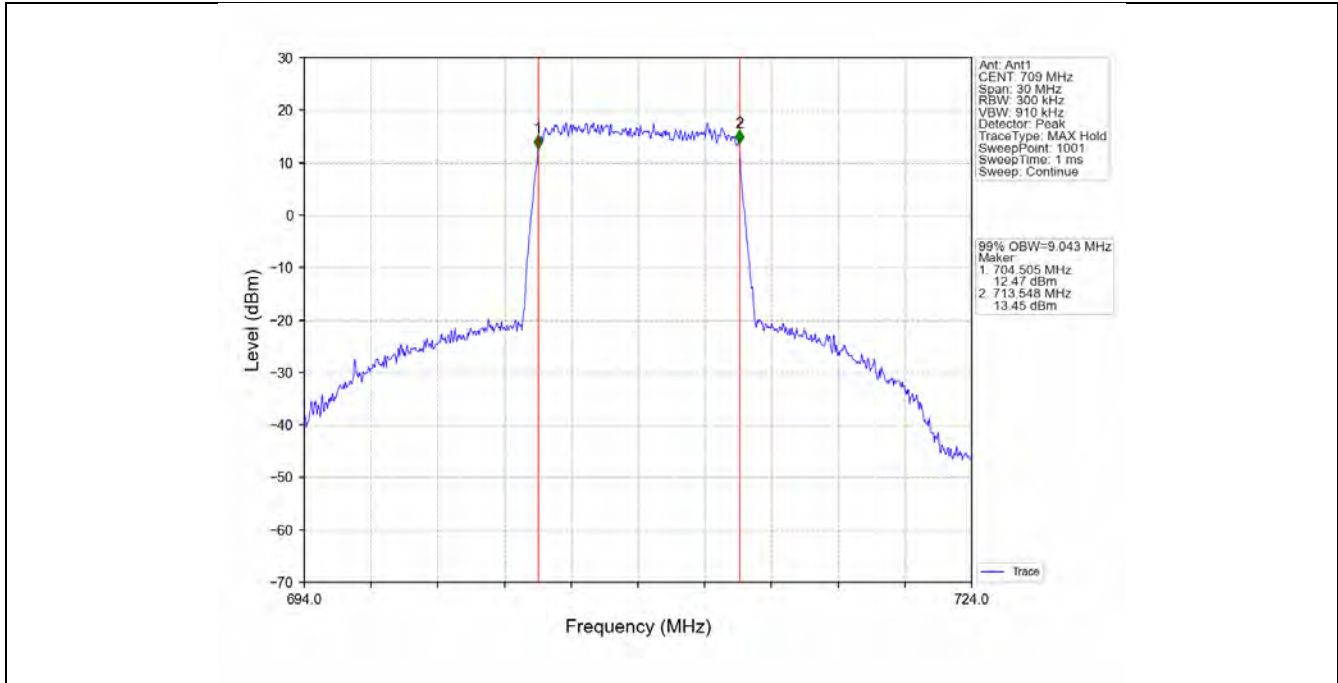


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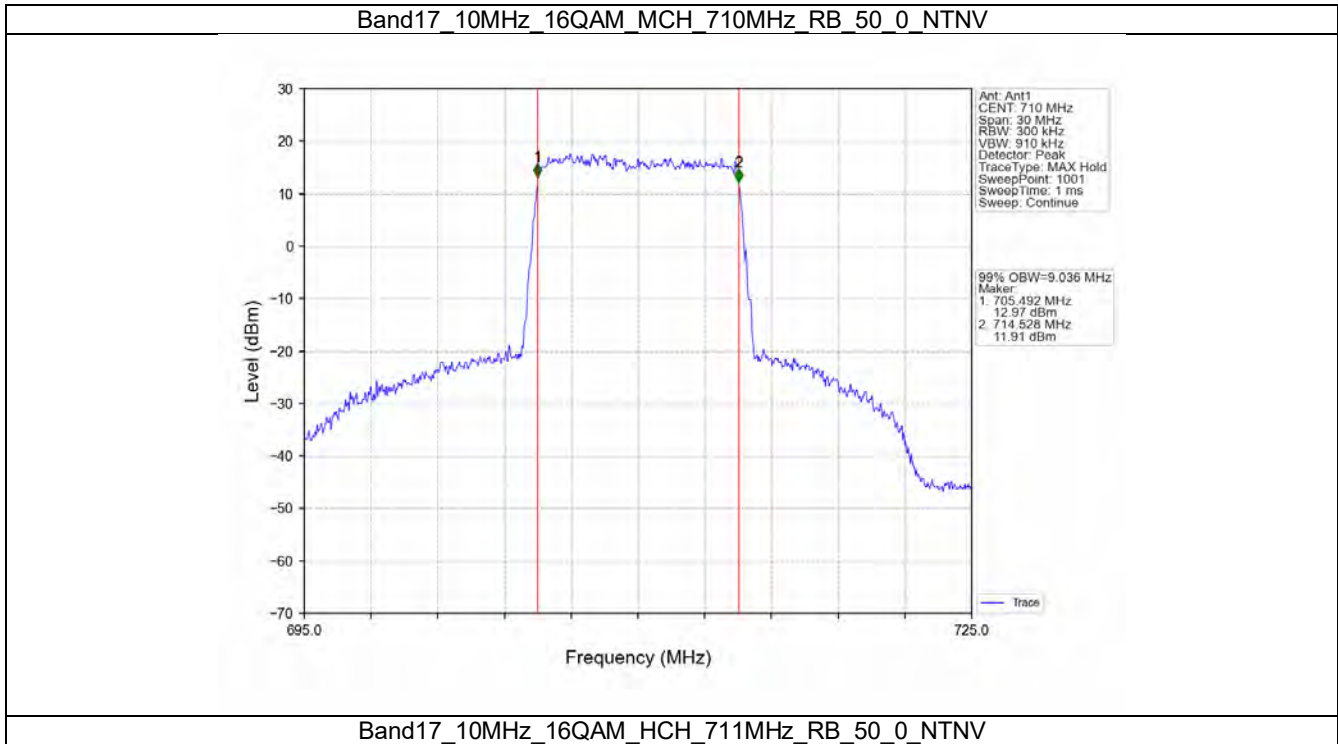


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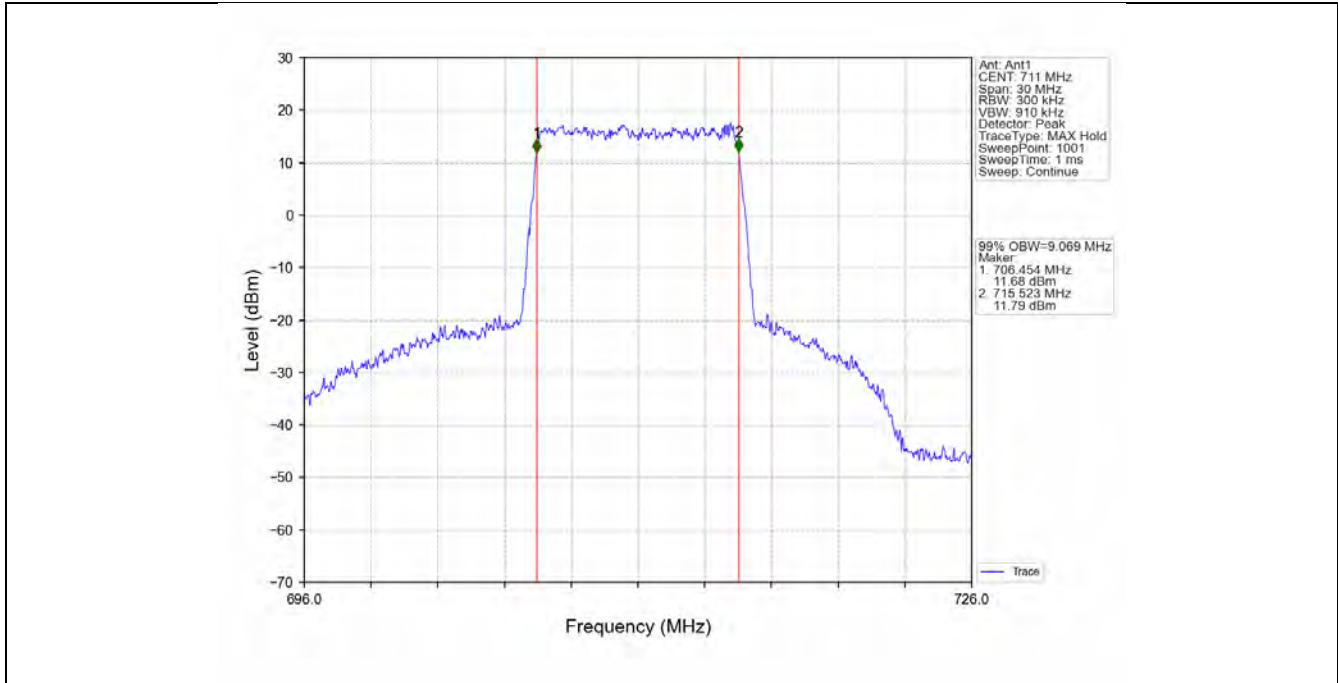


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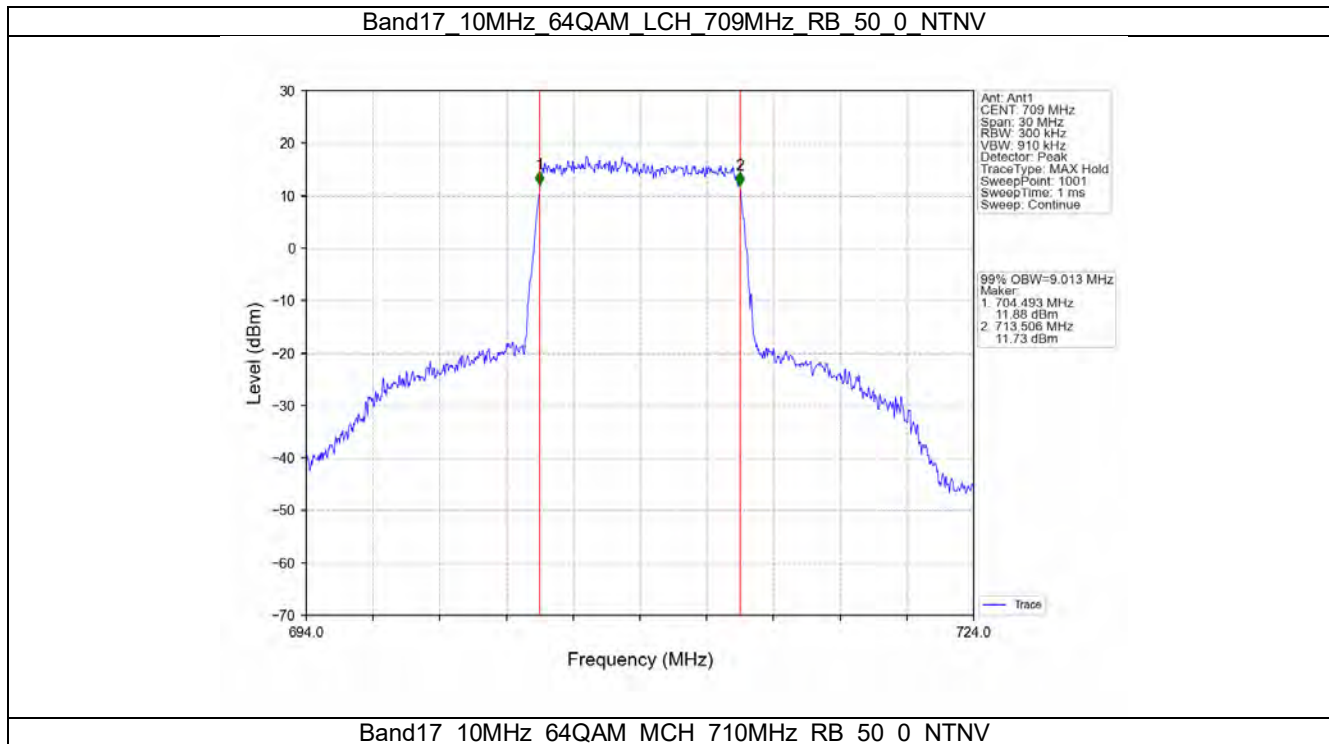
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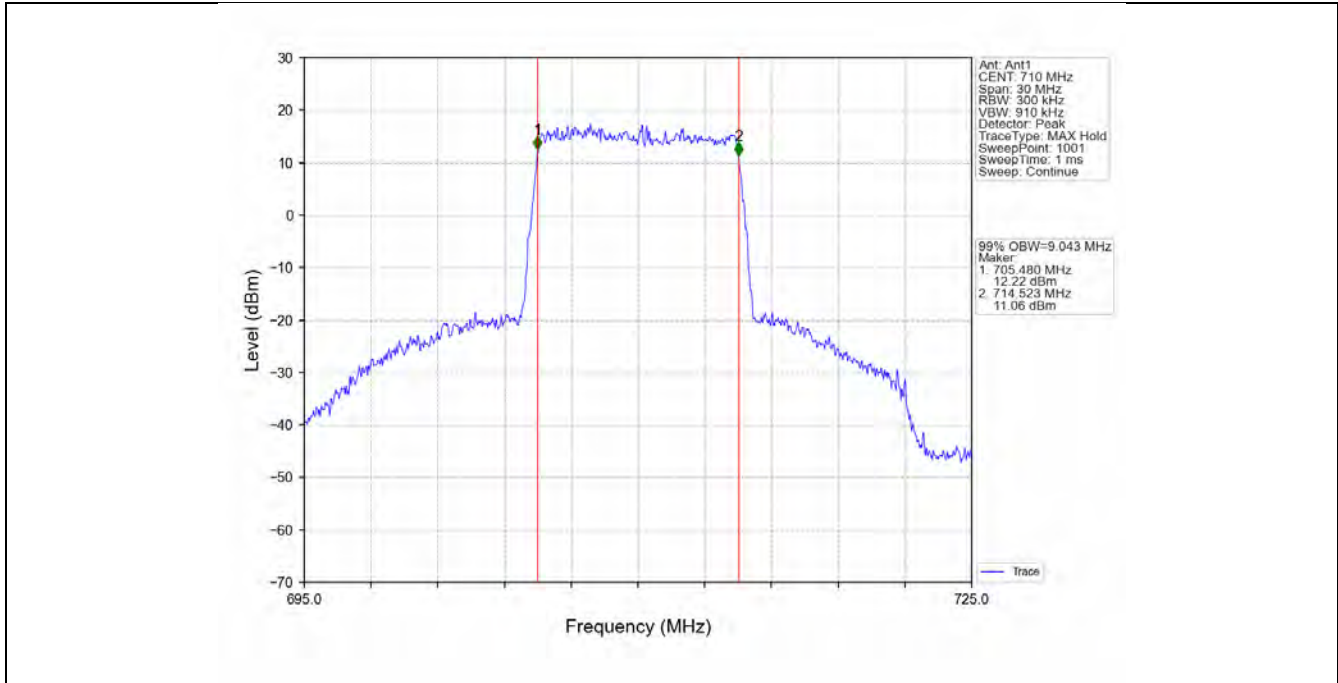


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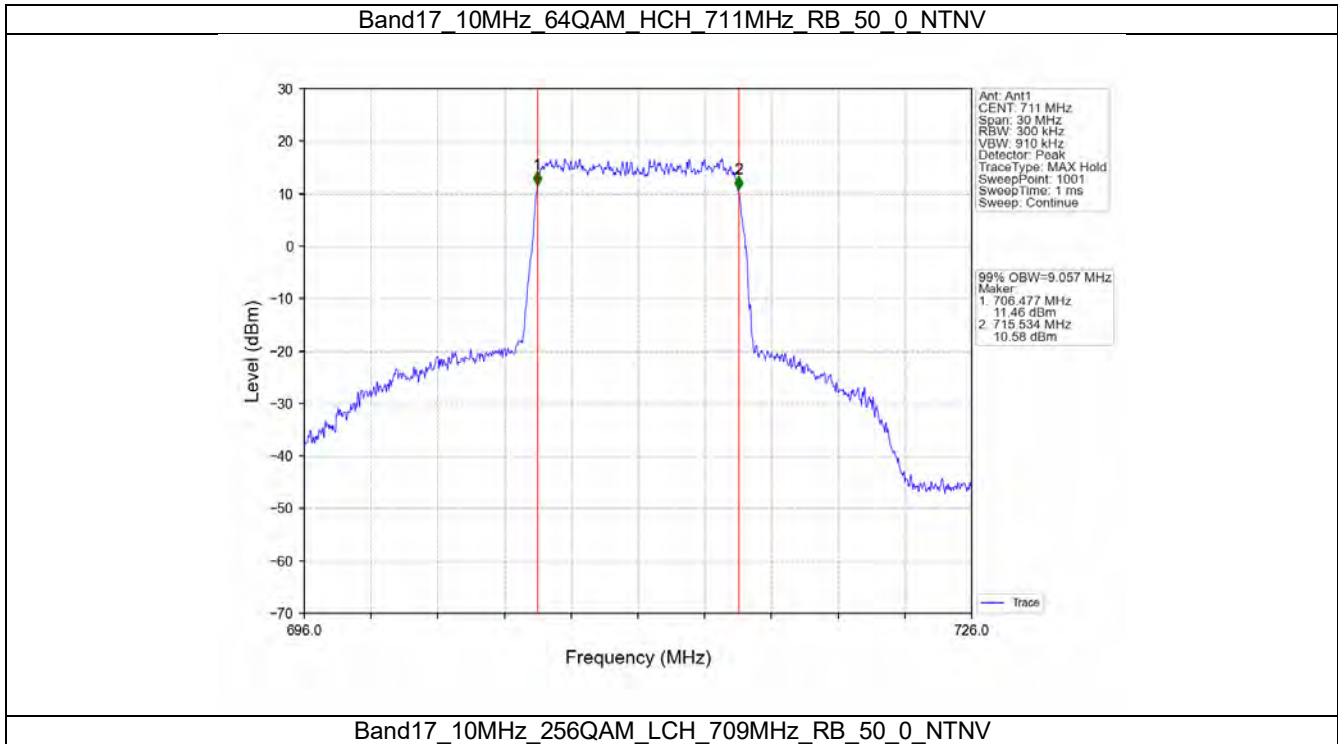


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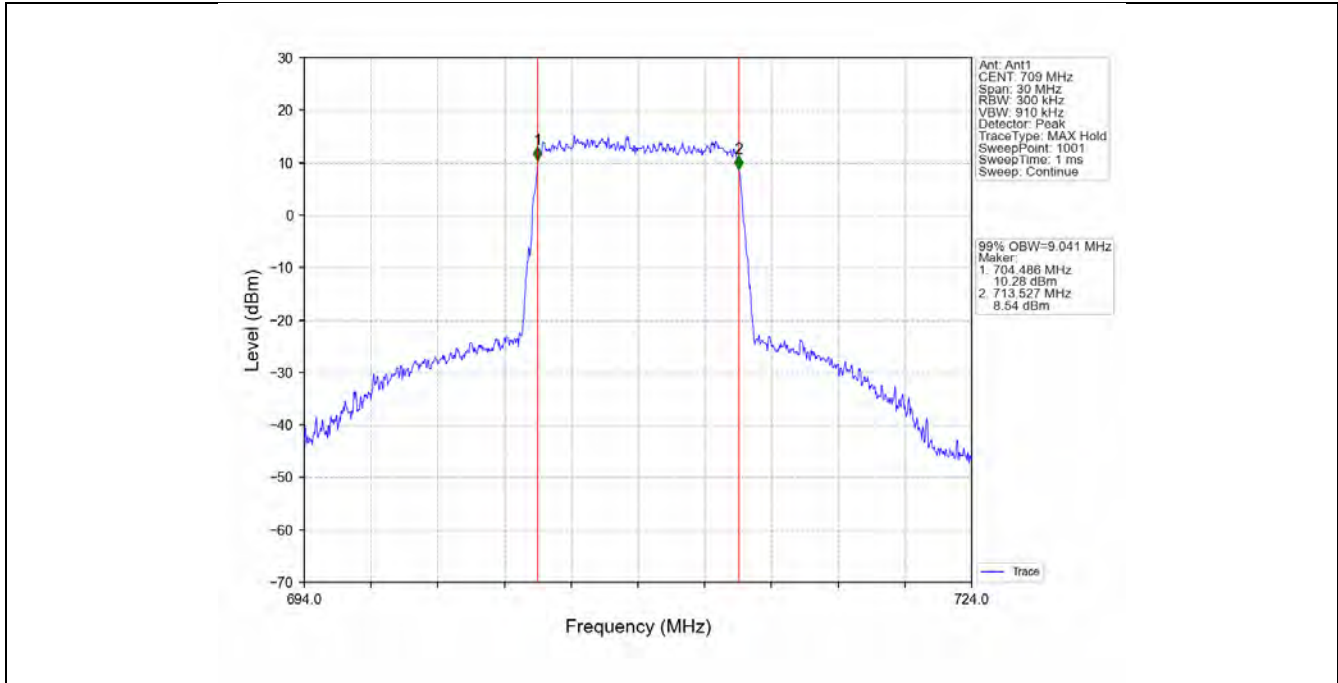


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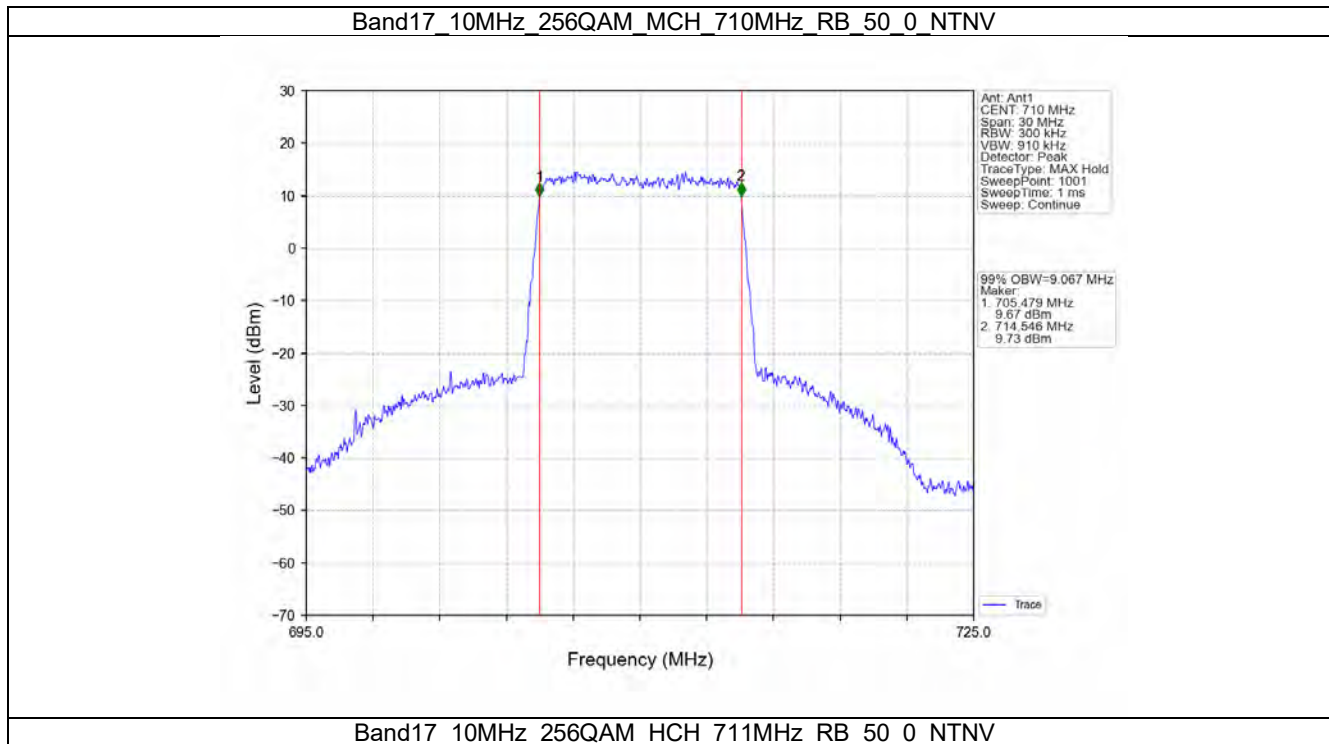
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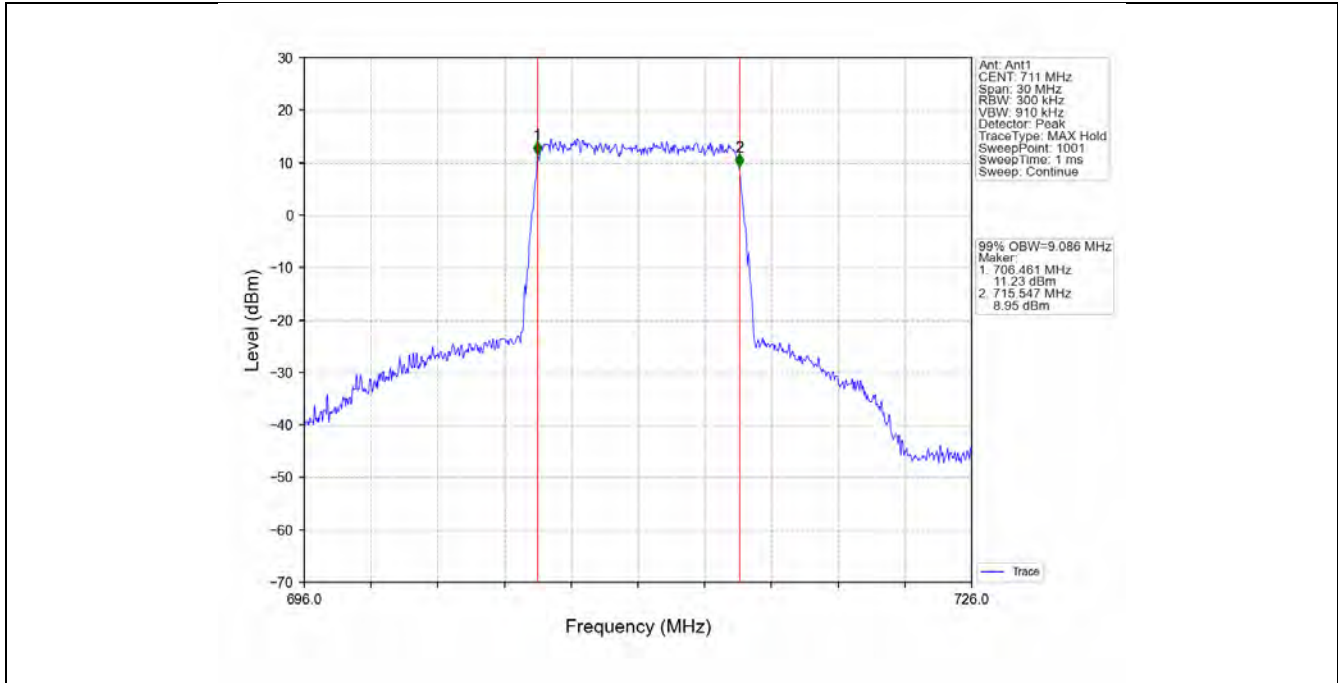


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## 3.2 Band17\_XDB

### 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	5.083	/	Pass
		710	25	0	5.037	/	Pass
		713.5	25	0	5.062	/	Pass
	16QAM	706.5	25	0	5.044	/	Pass
		710	25	0	5.031	/	Pass
		713.5	25	0	5.035	/	Pass
	64QAM	706.5	25	0	5.037	/	Pass
		710	25	0	5.065	/	Pass
		713.5	25	0	5.037	/	Pass
	256QAM	706.5	25	0	5.075	/	Pass
		710	25	0	5.054	/	Pass
		713.5	25	0	5.060	/	Pass
10	QPSK	709	50	0	9.932	/	Pass
		710	50	0	9.922	/	Pass
		711	50	0	9.974	/	Pass
	16QAM	709	50	0	9.973	/	Pass
		710	50	0	9.901	/	Pass
		711	50	0	9.974	/	Pass
	64QAM	709	50	0	9.906	/	Pass
		710	50	0	9.938	/	Pass
		711	50	0	9.958	/	Pass
	256QAM	709	50	0	9.978	/	Pass
		710	50	0	10.000	/	Pass
		711	50	0	10.023	/	Pass



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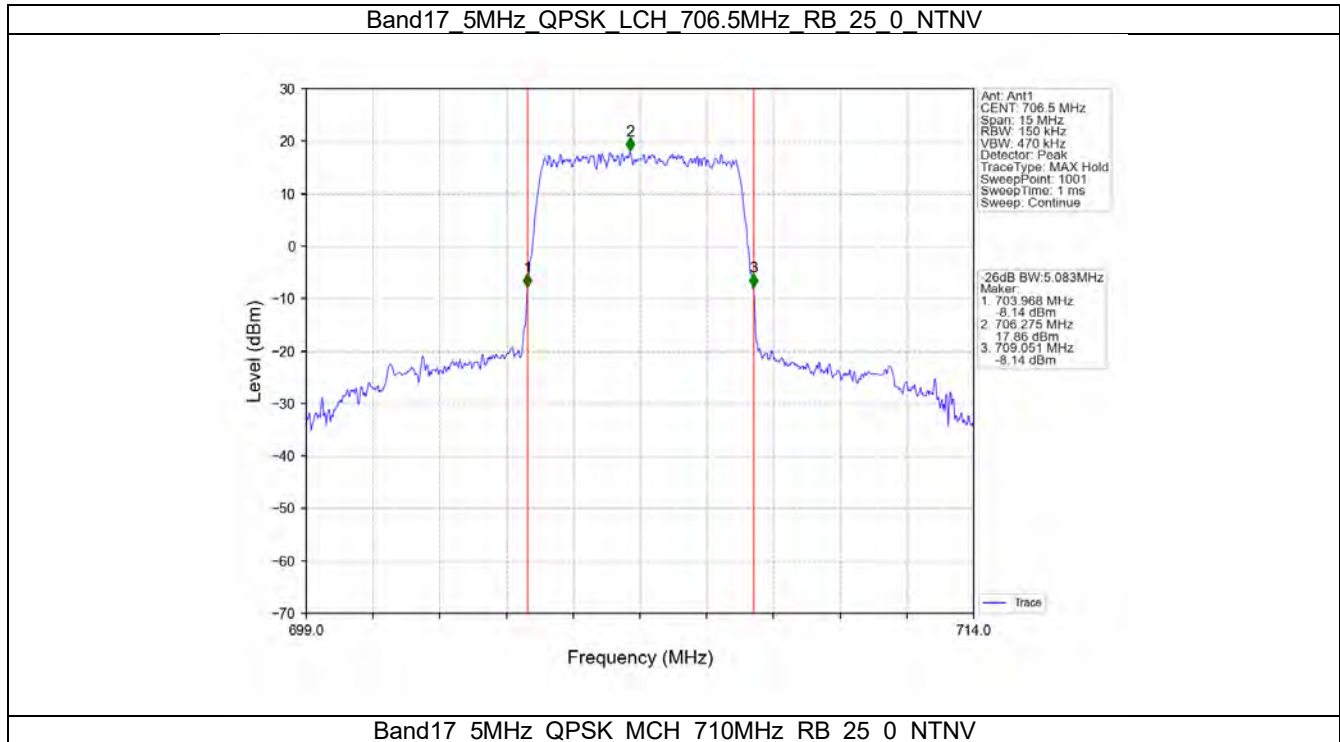
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3.2.2 Test Graph



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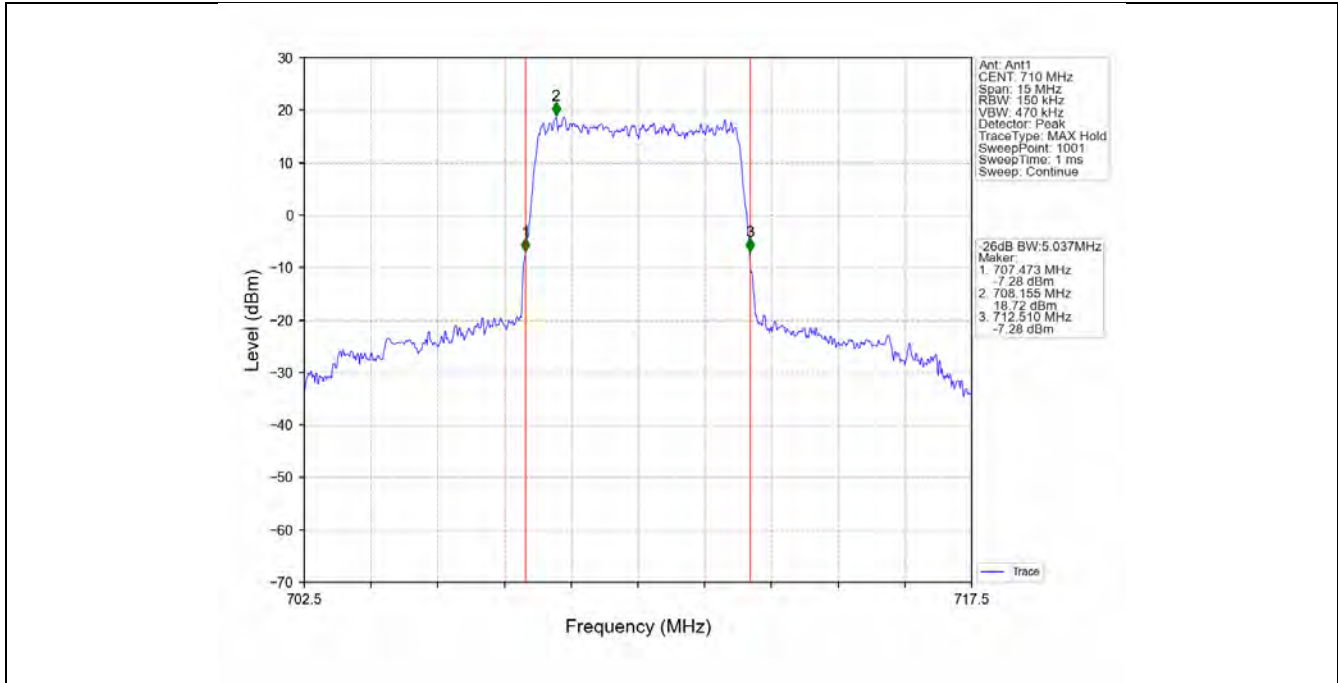


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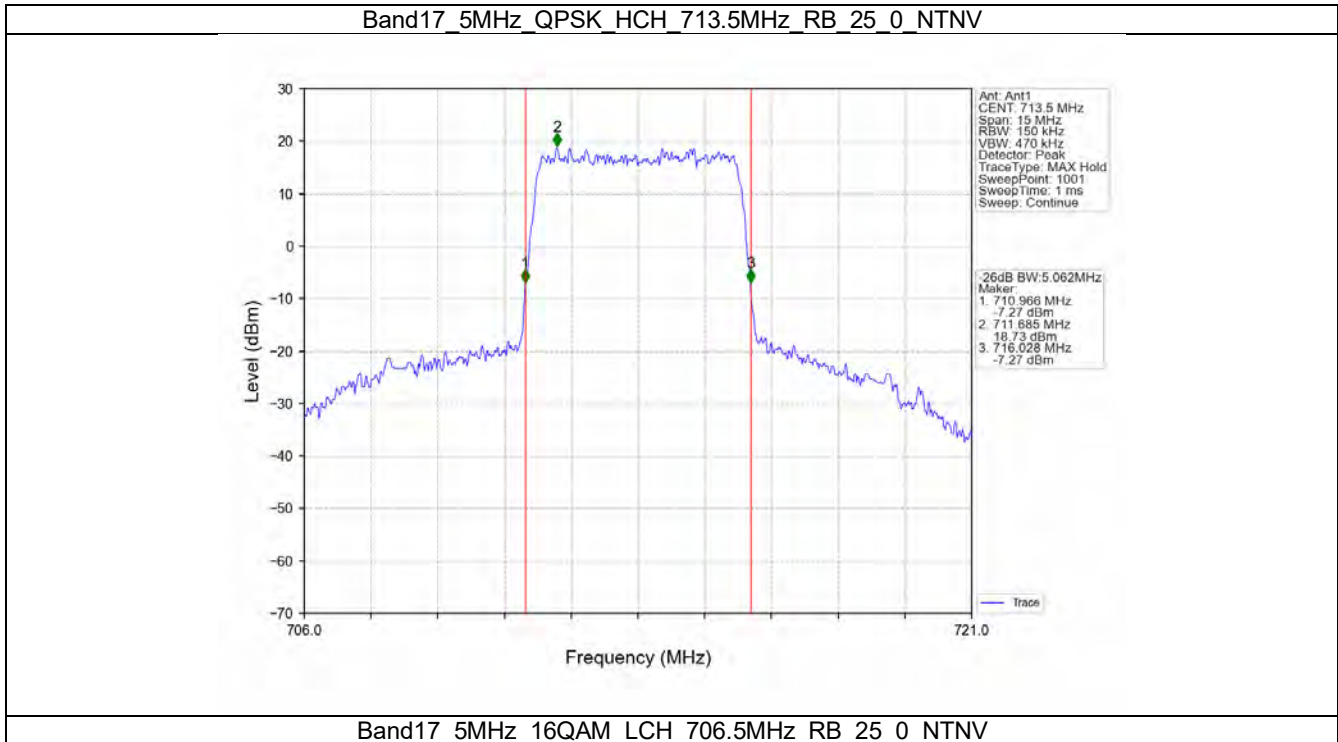


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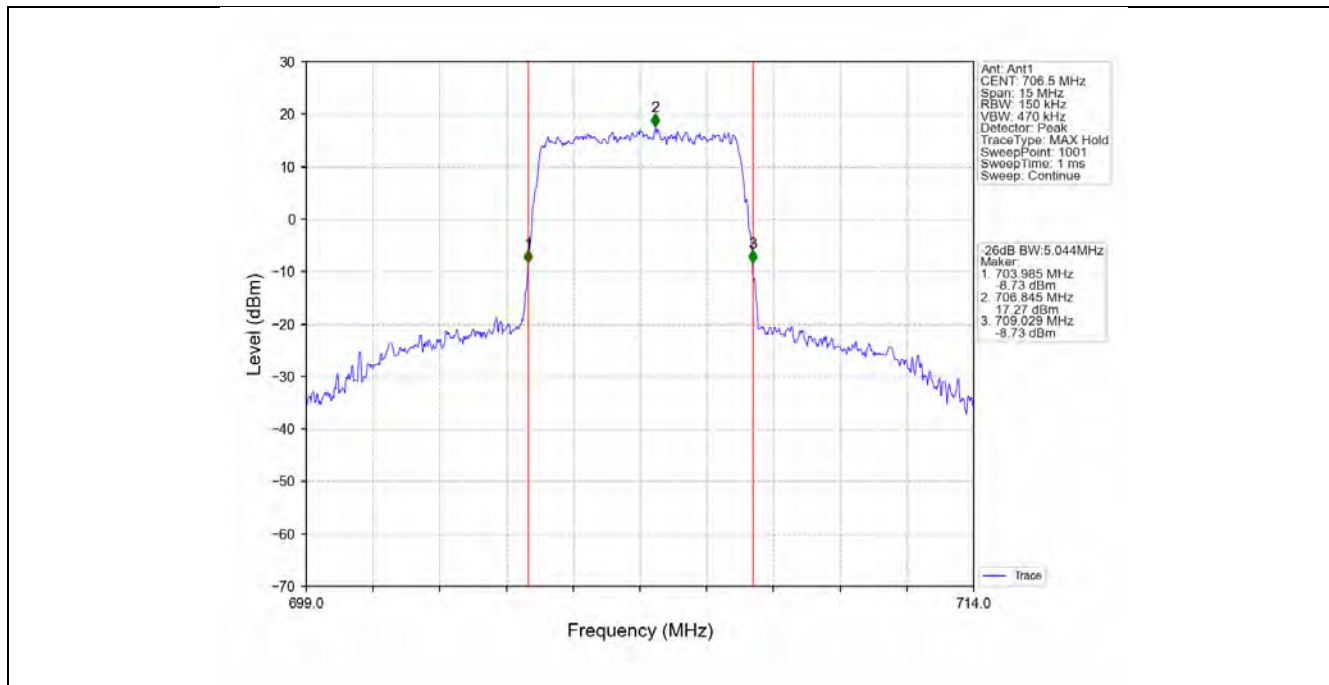
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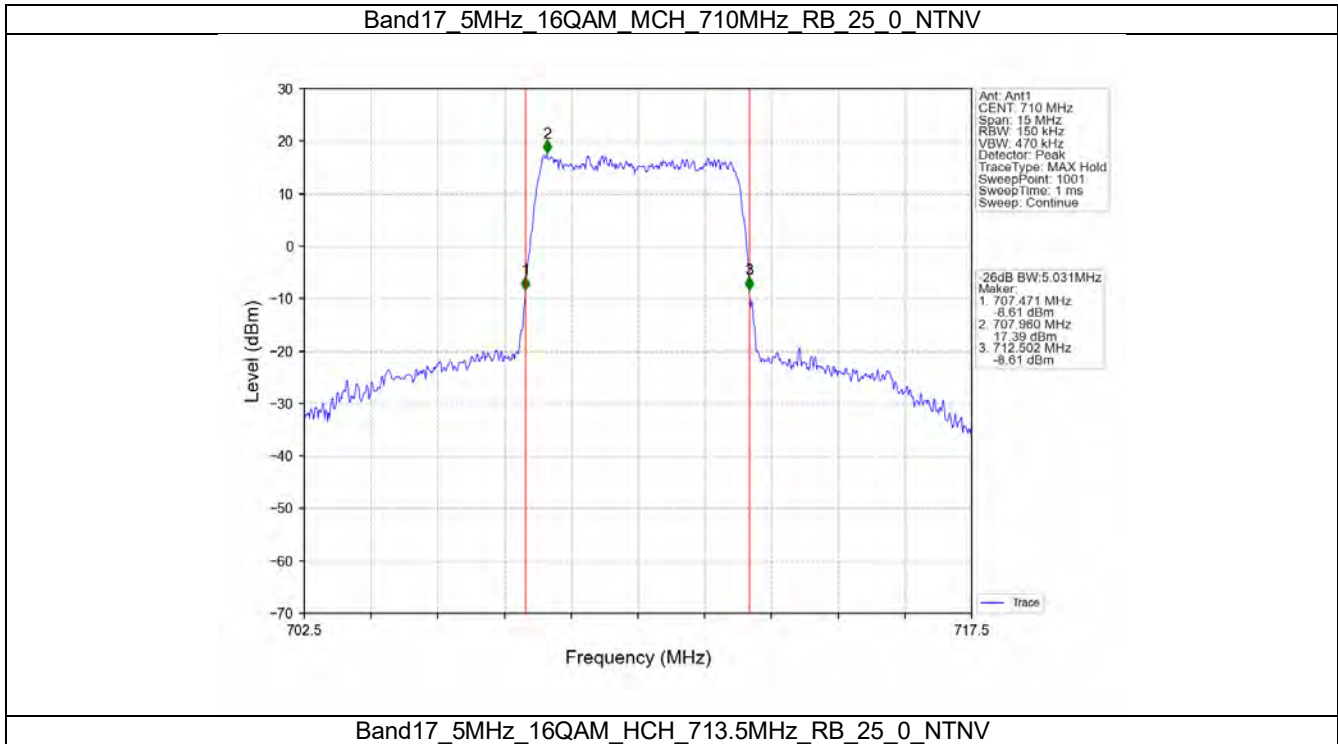


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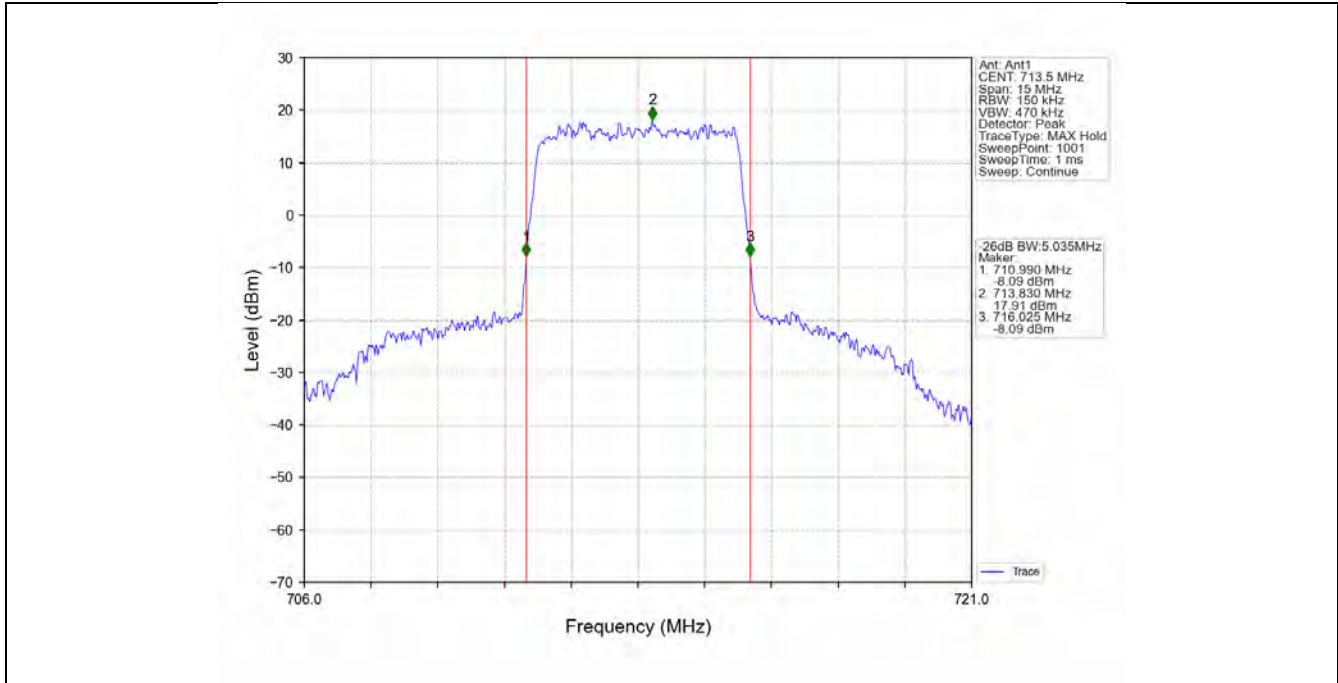


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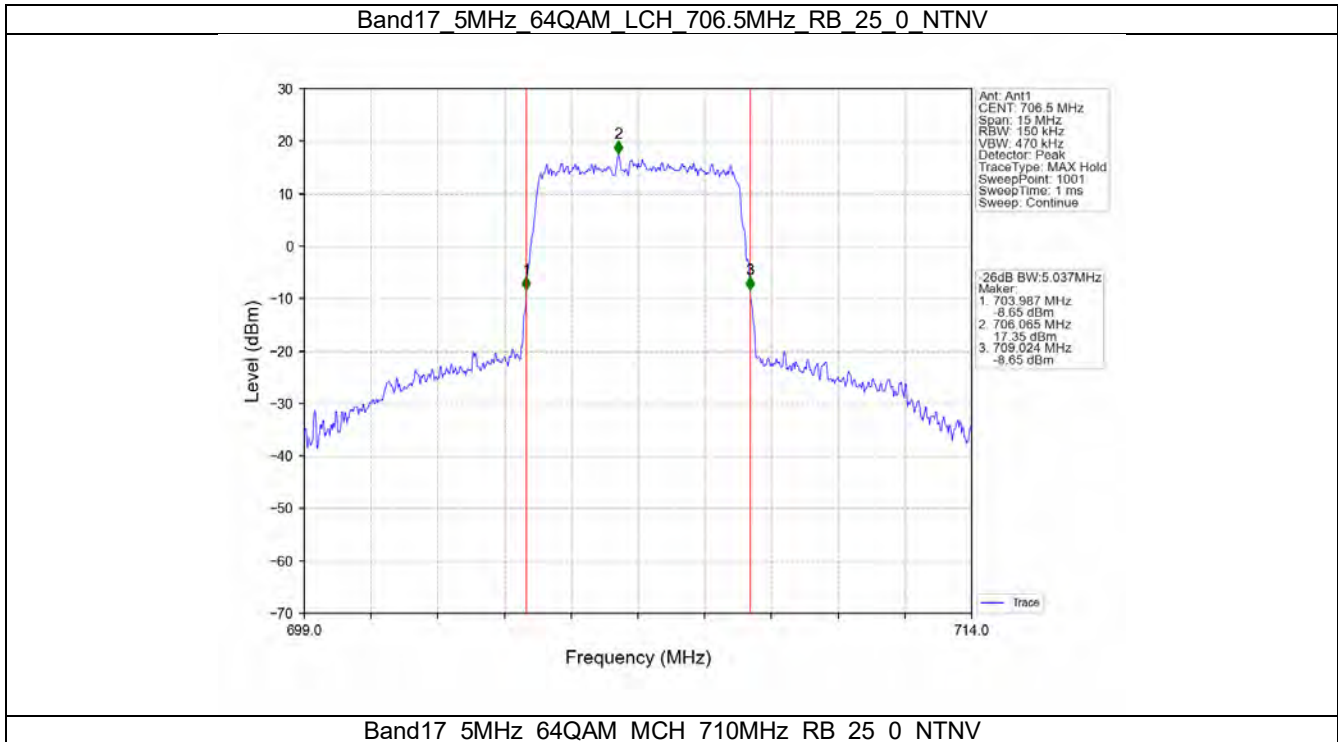


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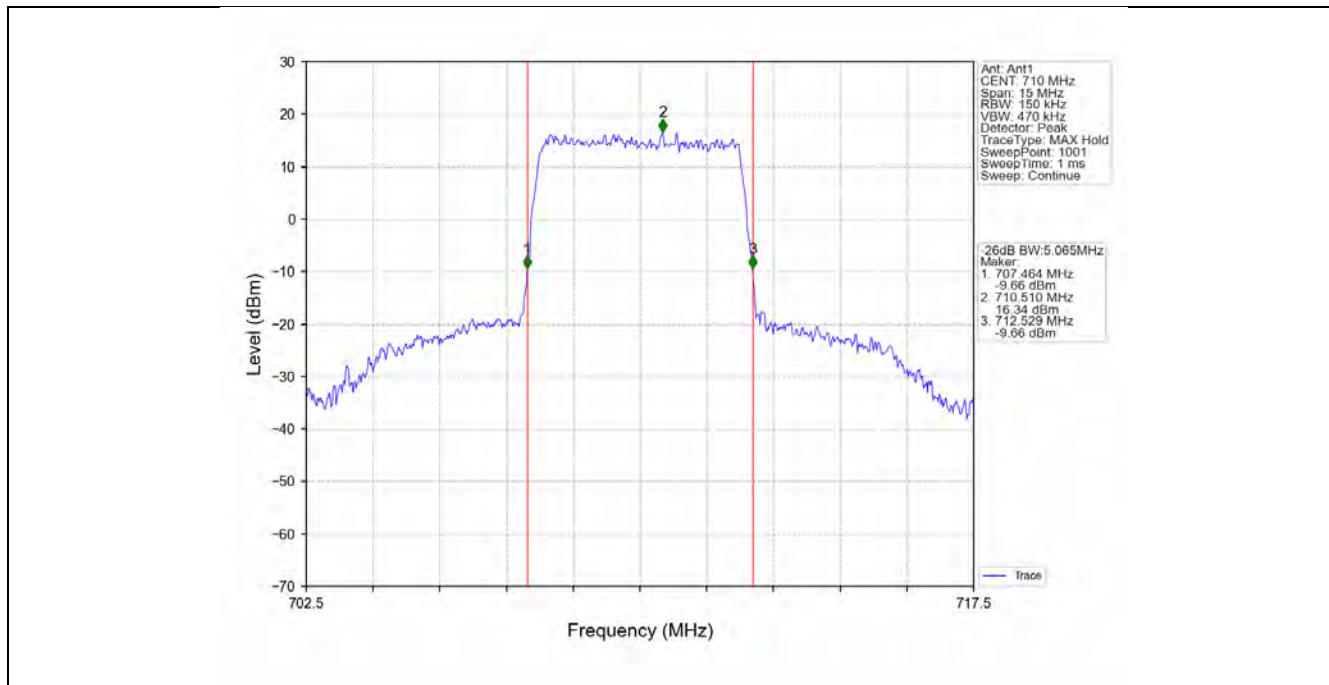
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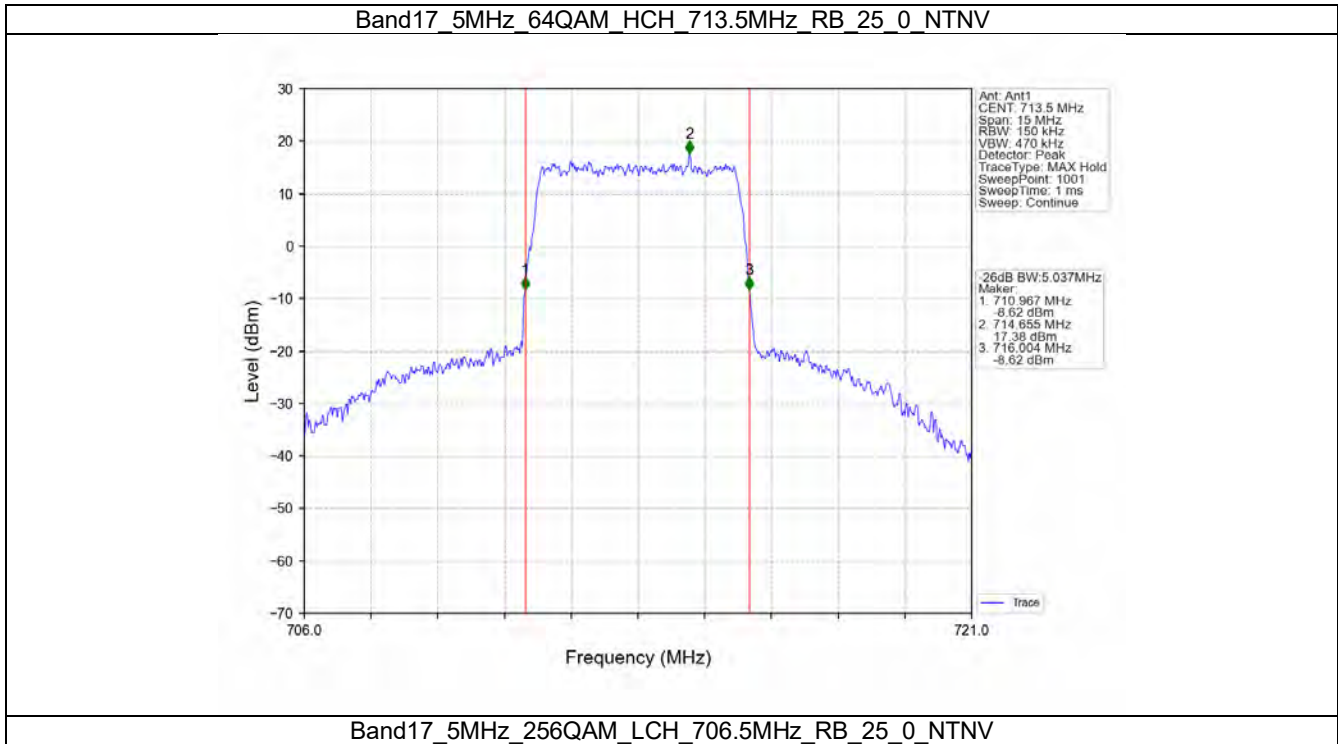


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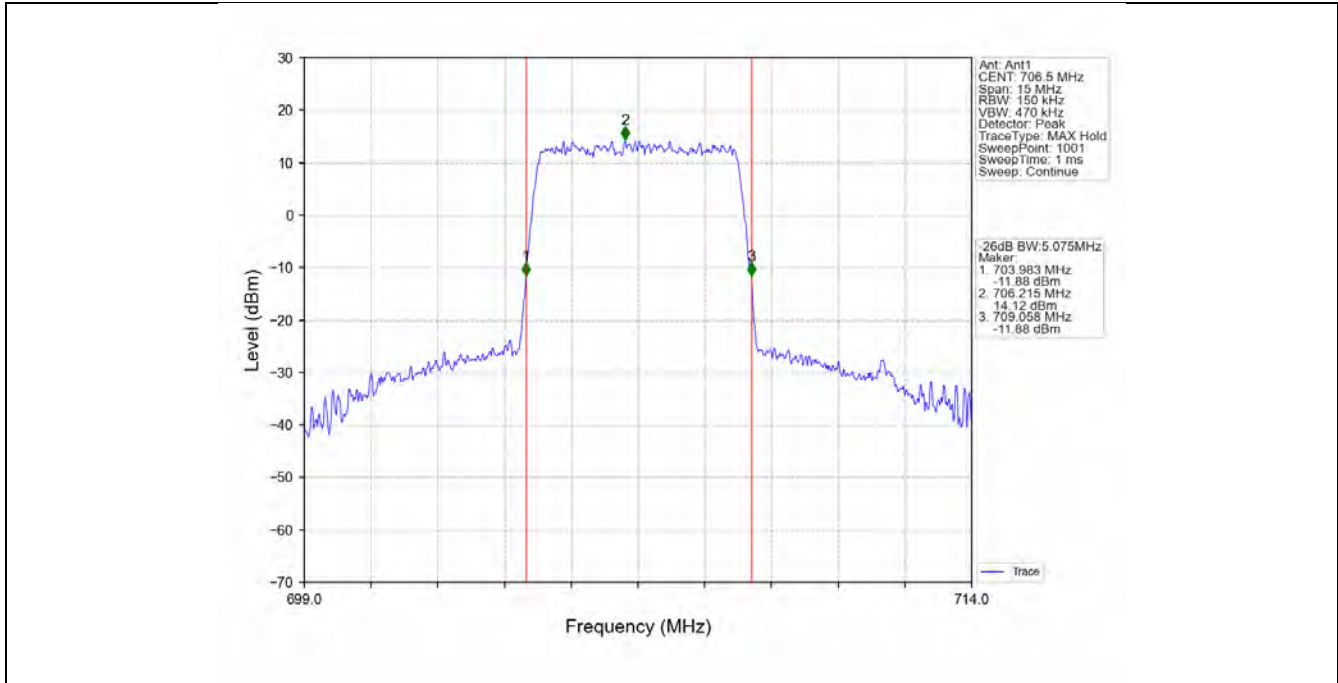


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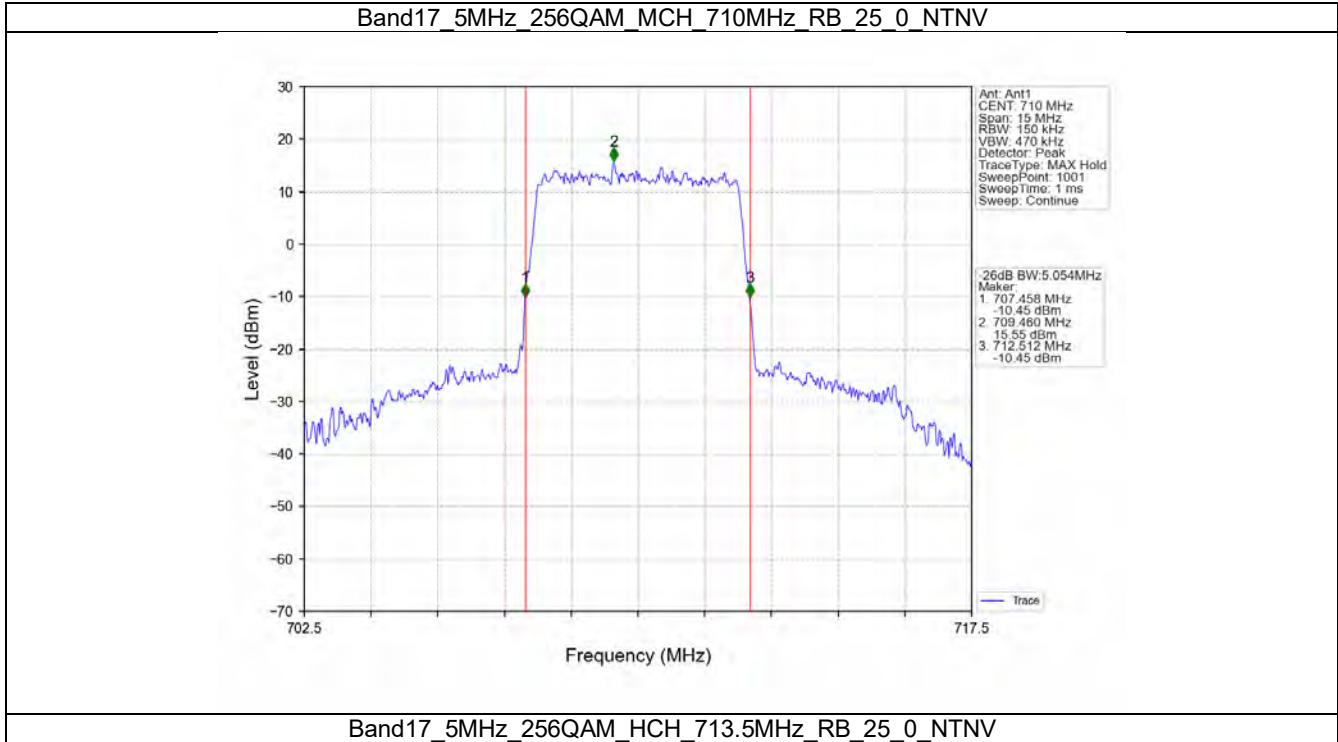


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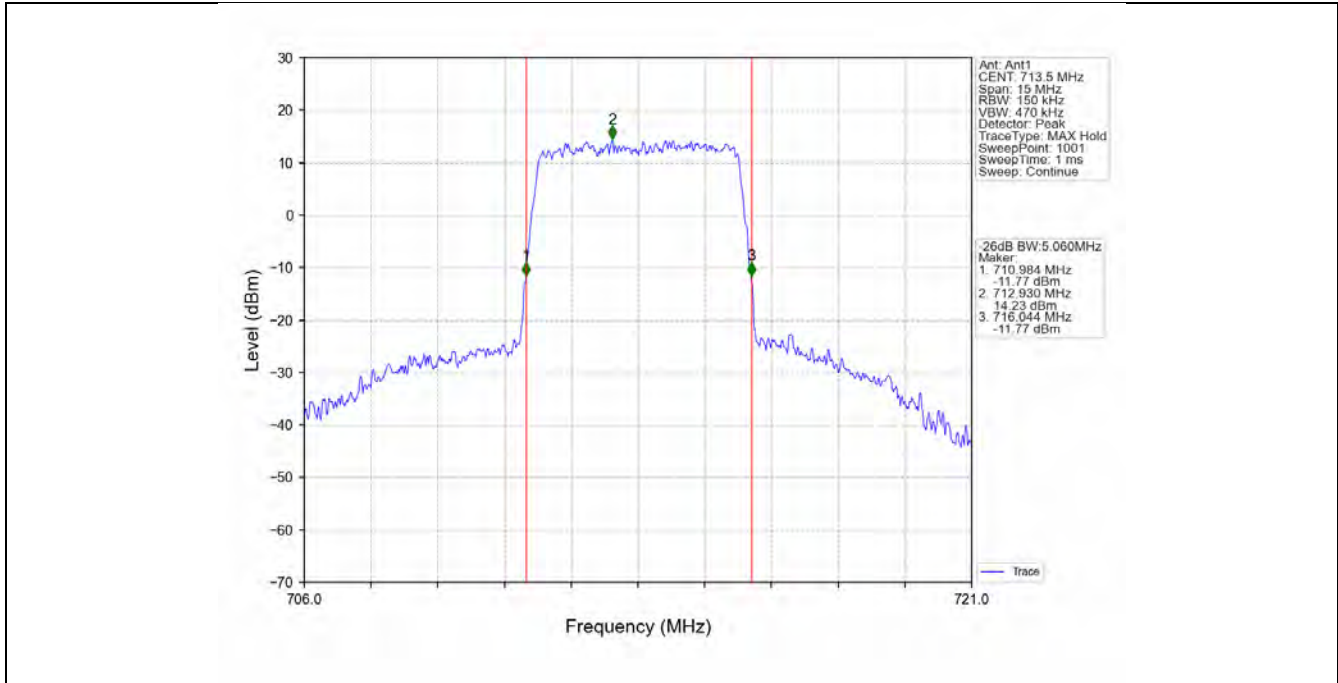


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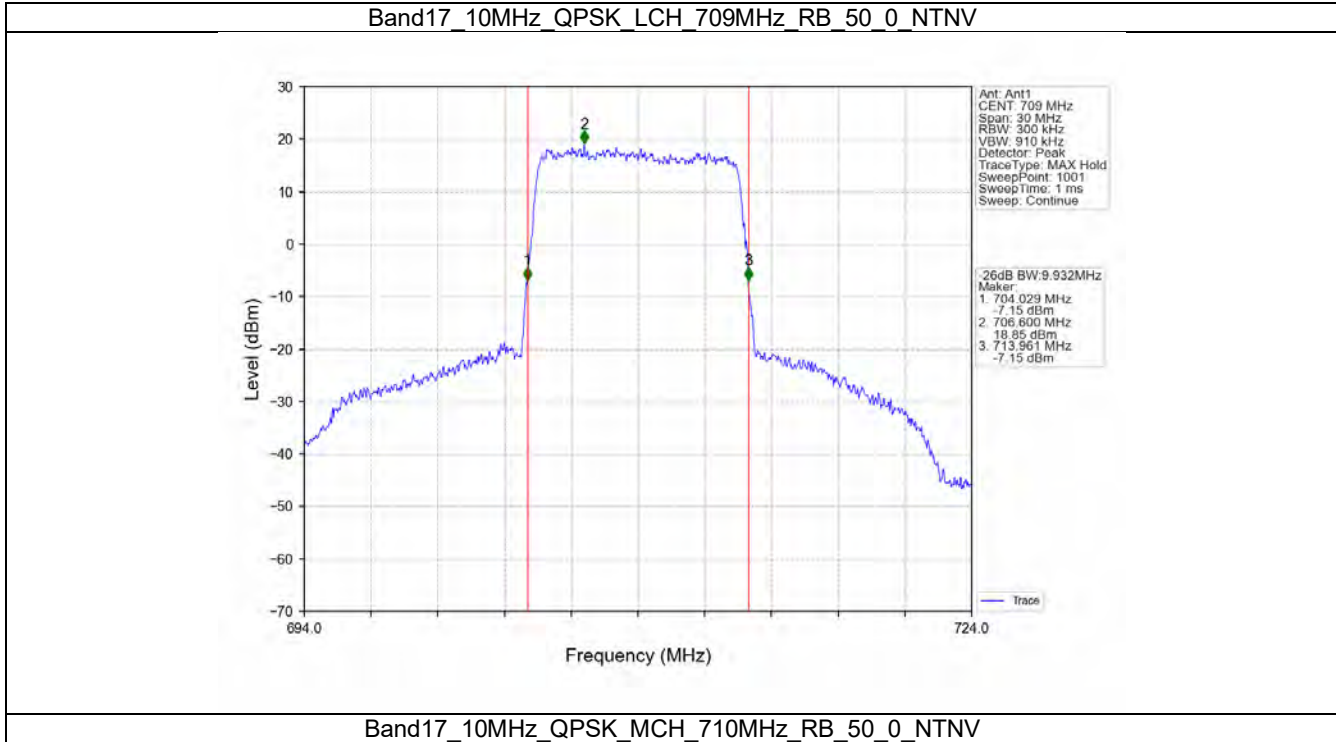


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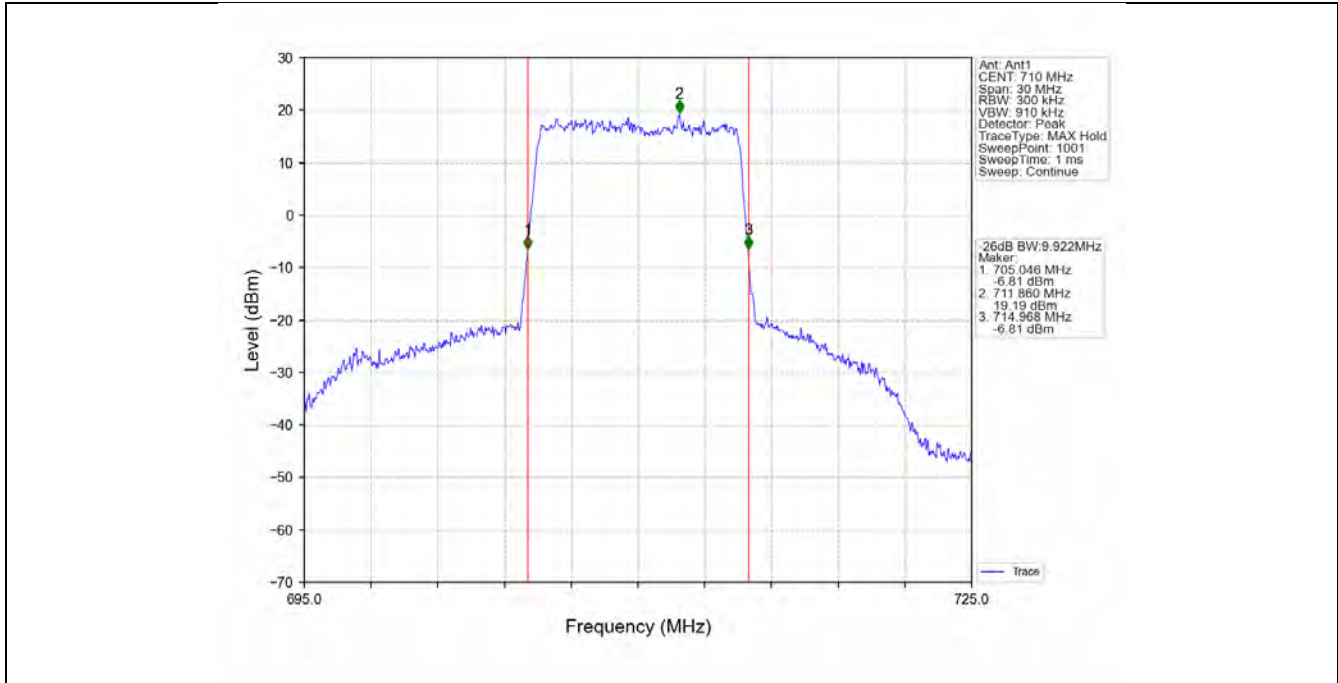


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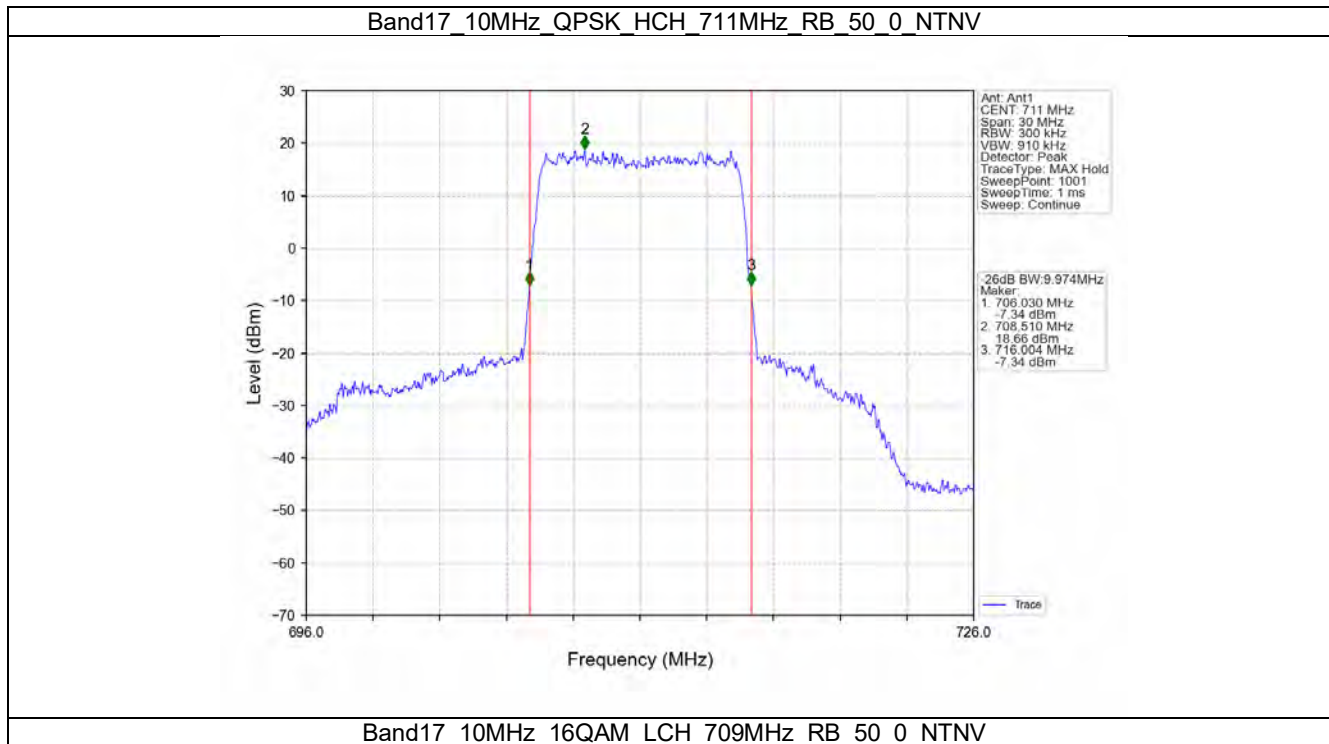
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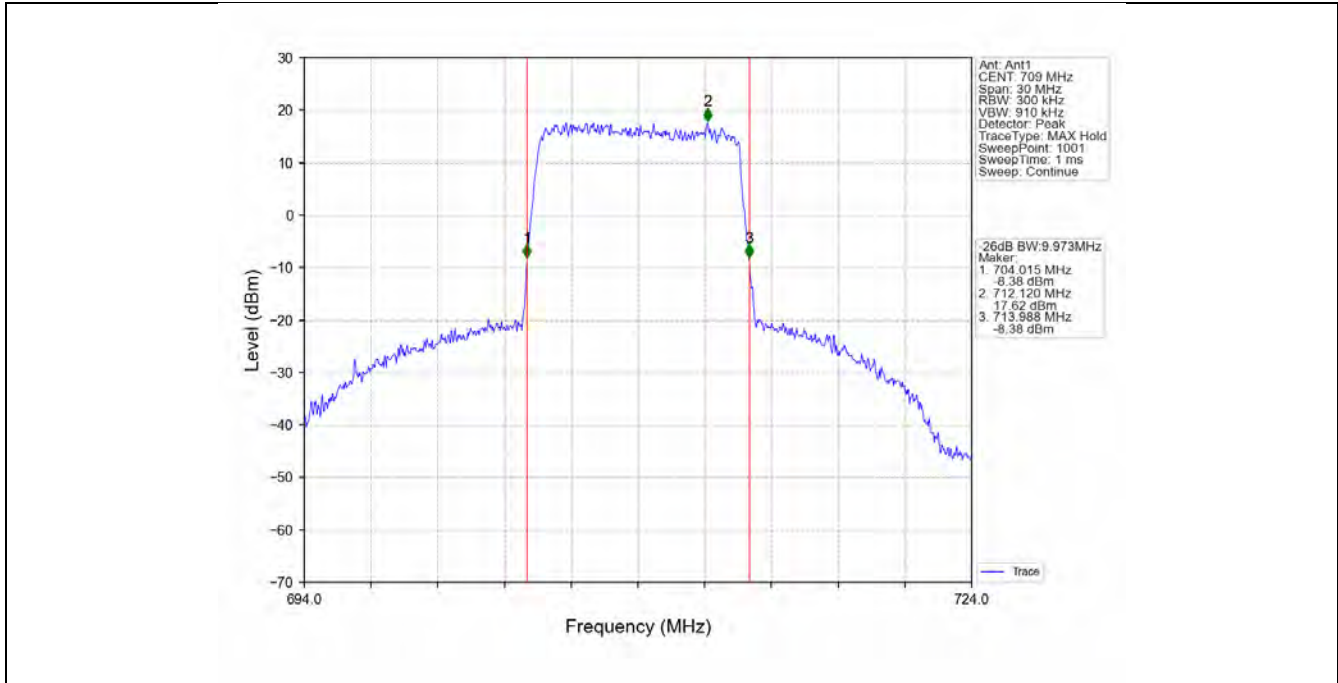


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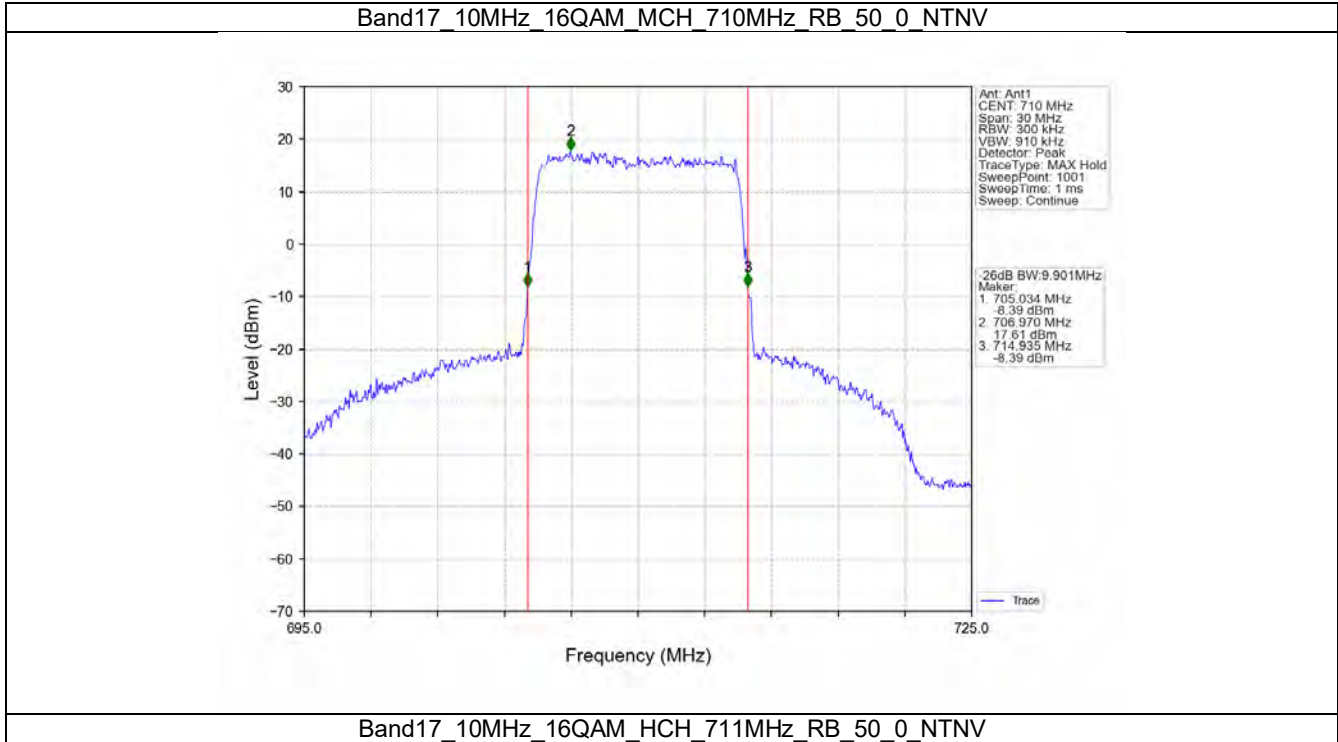


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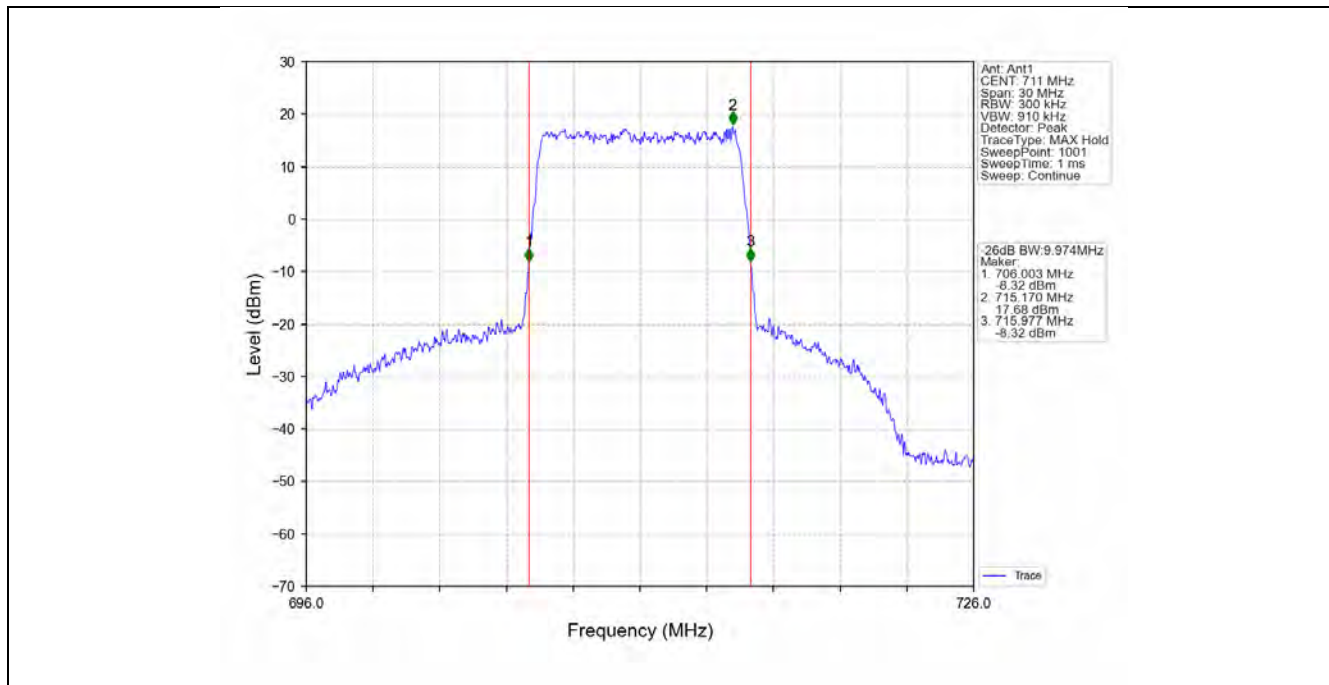
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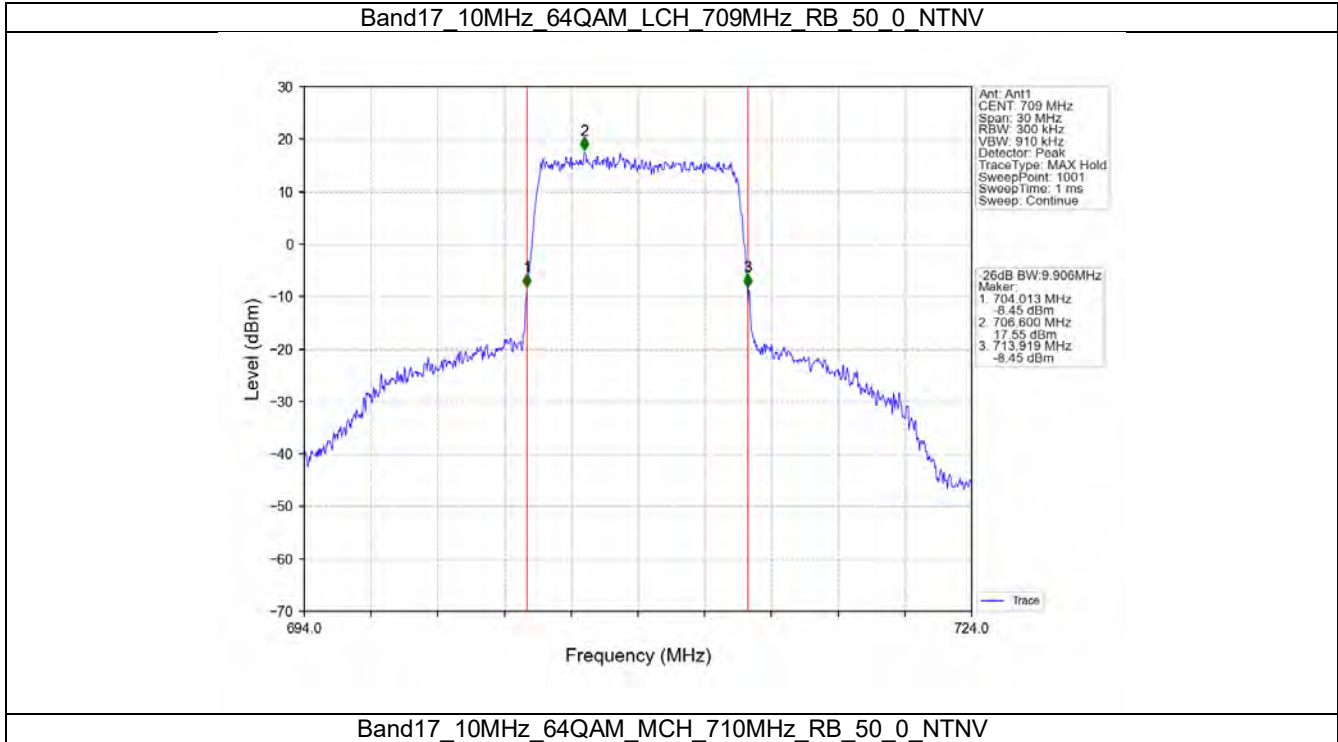


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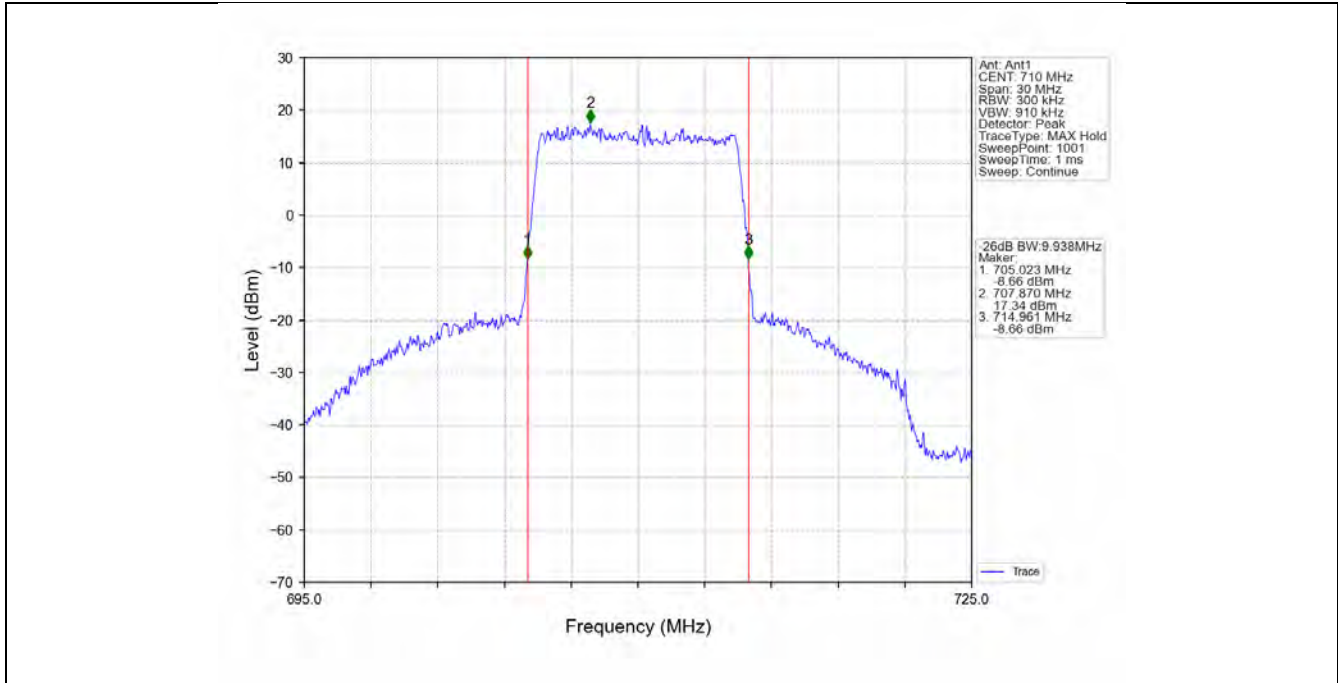


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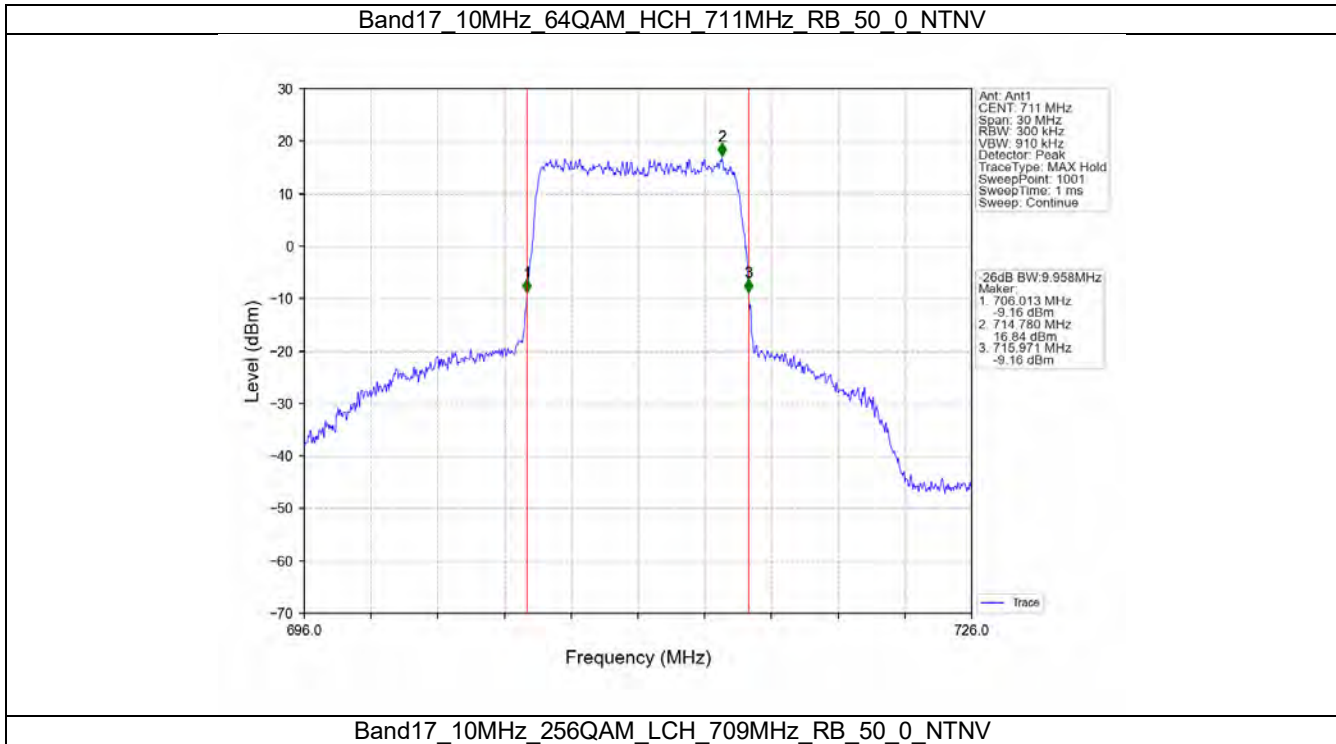


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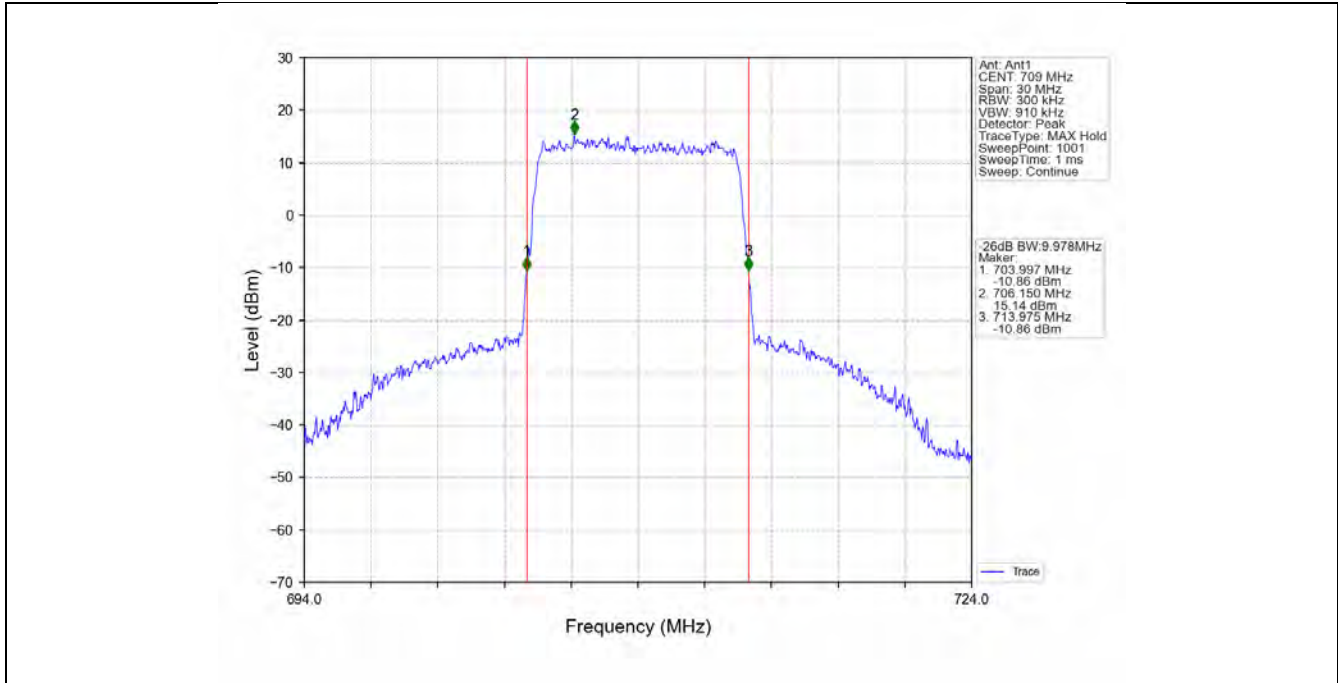


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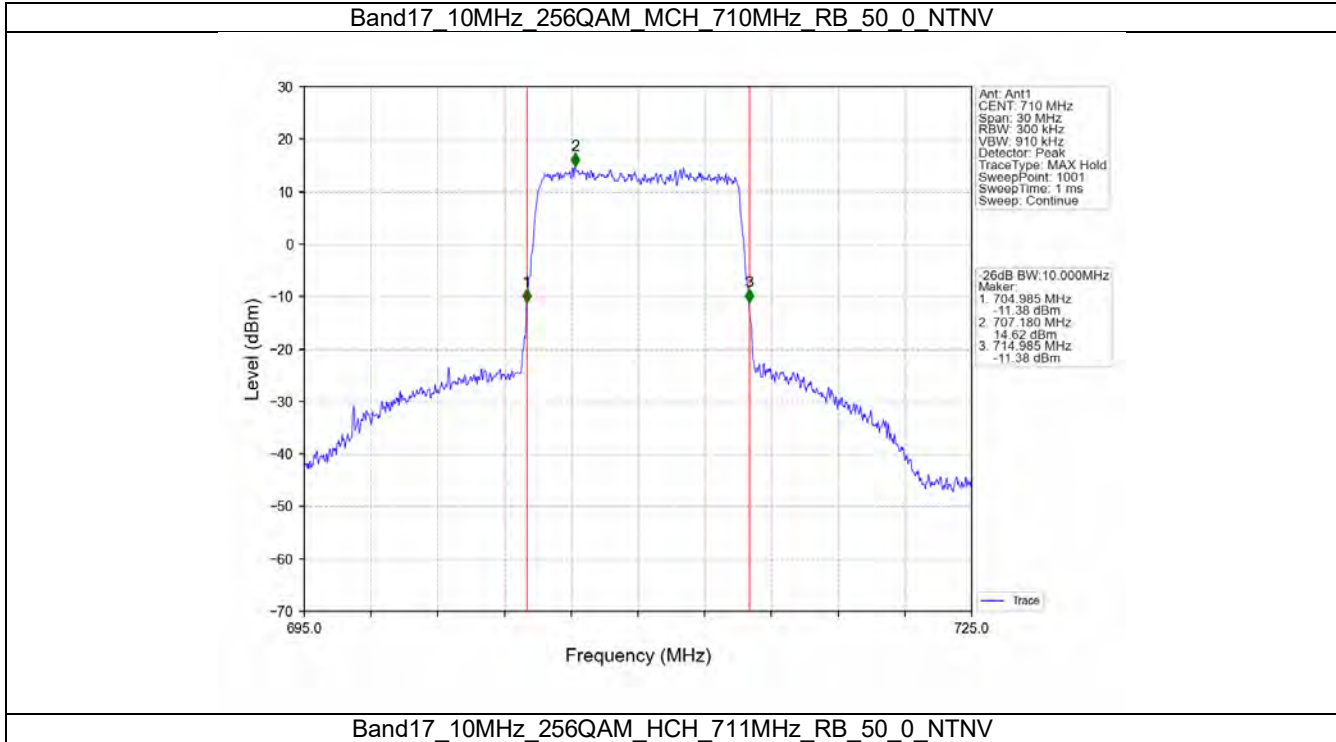


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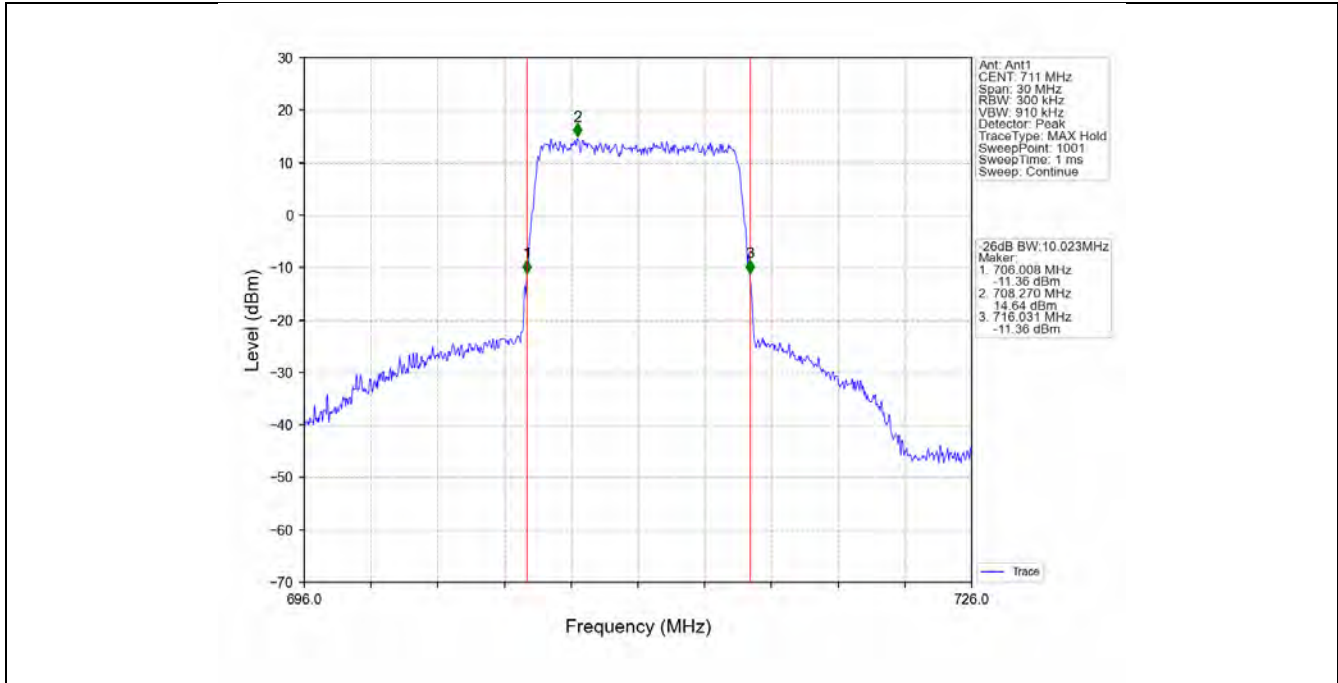


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## 4. Peak-Average Ratio

### 4.1 B17\_5MHz

#### 4.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	706.5	25	0	5.43	<=13	Pass
	710	25	0	5.40	<=13	Pass
	713.5	25	0	5.44	<=13	Pass
16QAM	706.5	25	0	6.24	<=13	Pass
	710	25	0	6.18	<=13	Pass
	713.5	25	0	6.22	<=13	Pass
64QAM	706.5	25	0	6.98	<=13	Pass
	710	25	0	7.17	<=13	Pass
	713.5	25	0	6.99	<=13	Pass
256QAM	706.5	25	0	6.95	<=13	Pass
	710	25	0	7.09	<=13	Pass
	713.5	25	0	6.92	<=13	Pass



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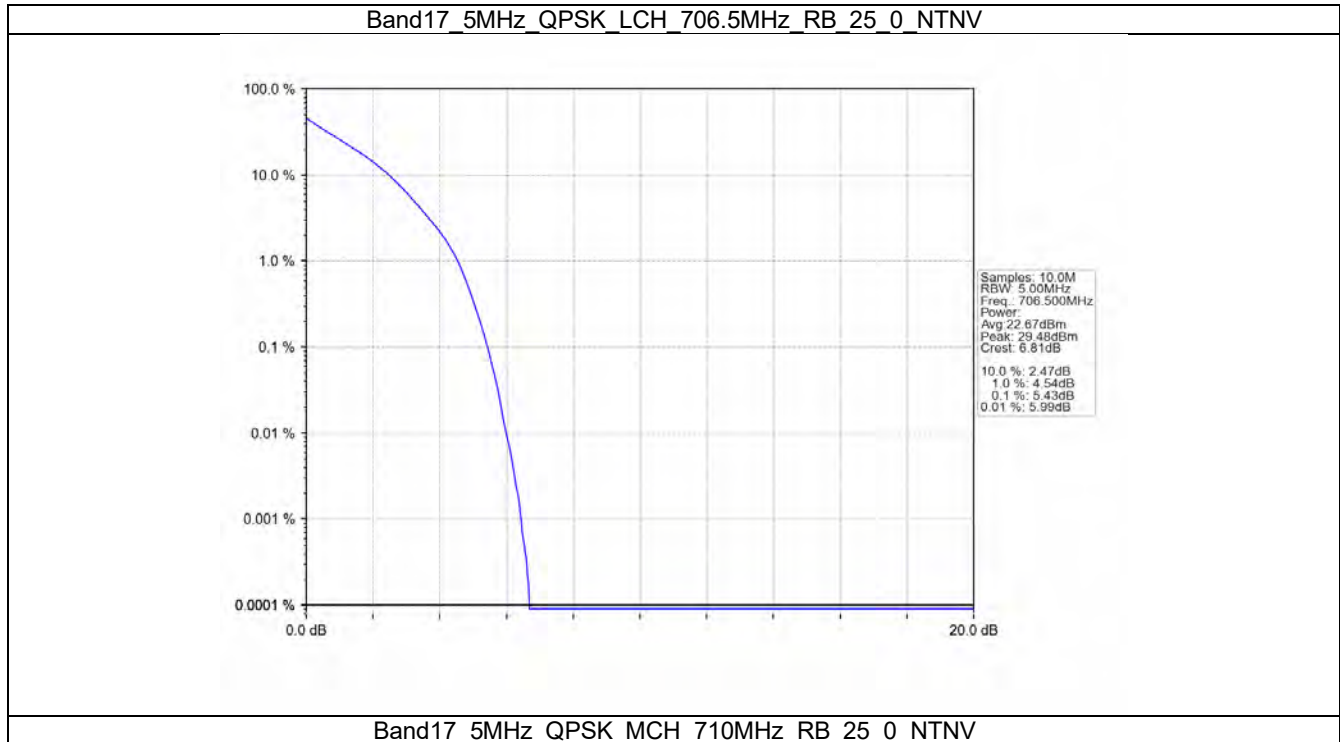
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4.1.2 Test Graph



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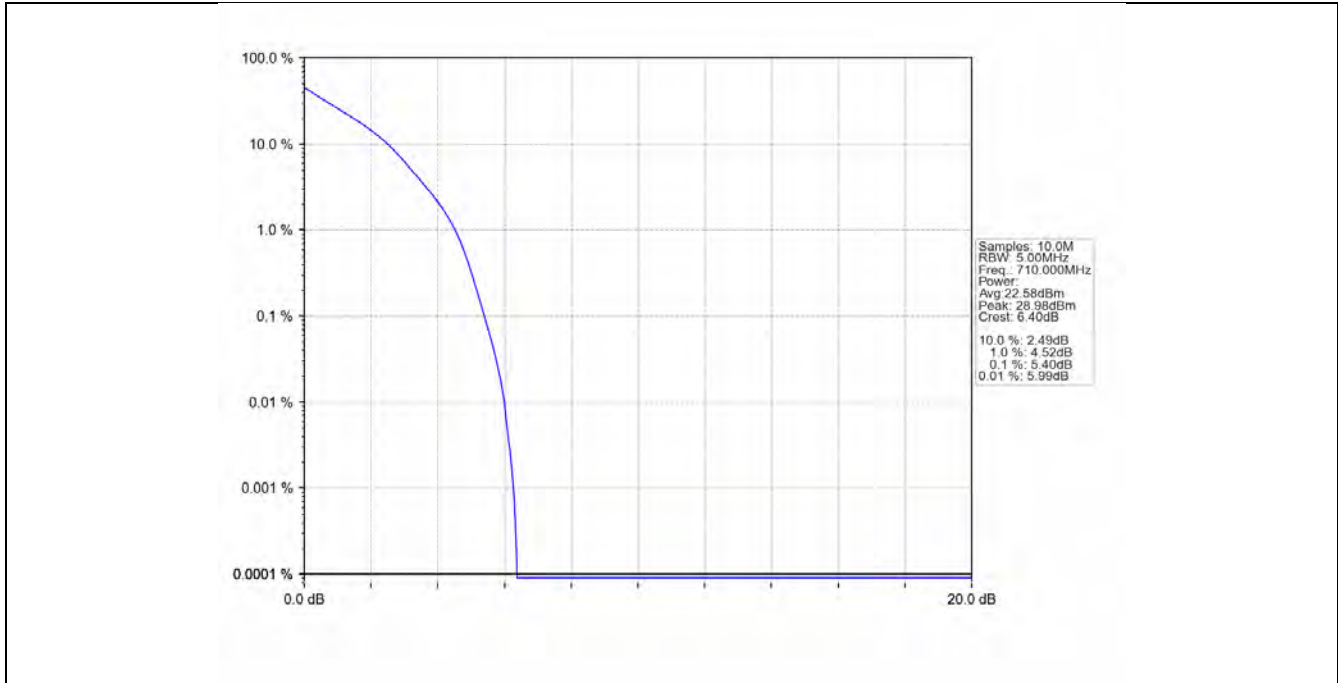


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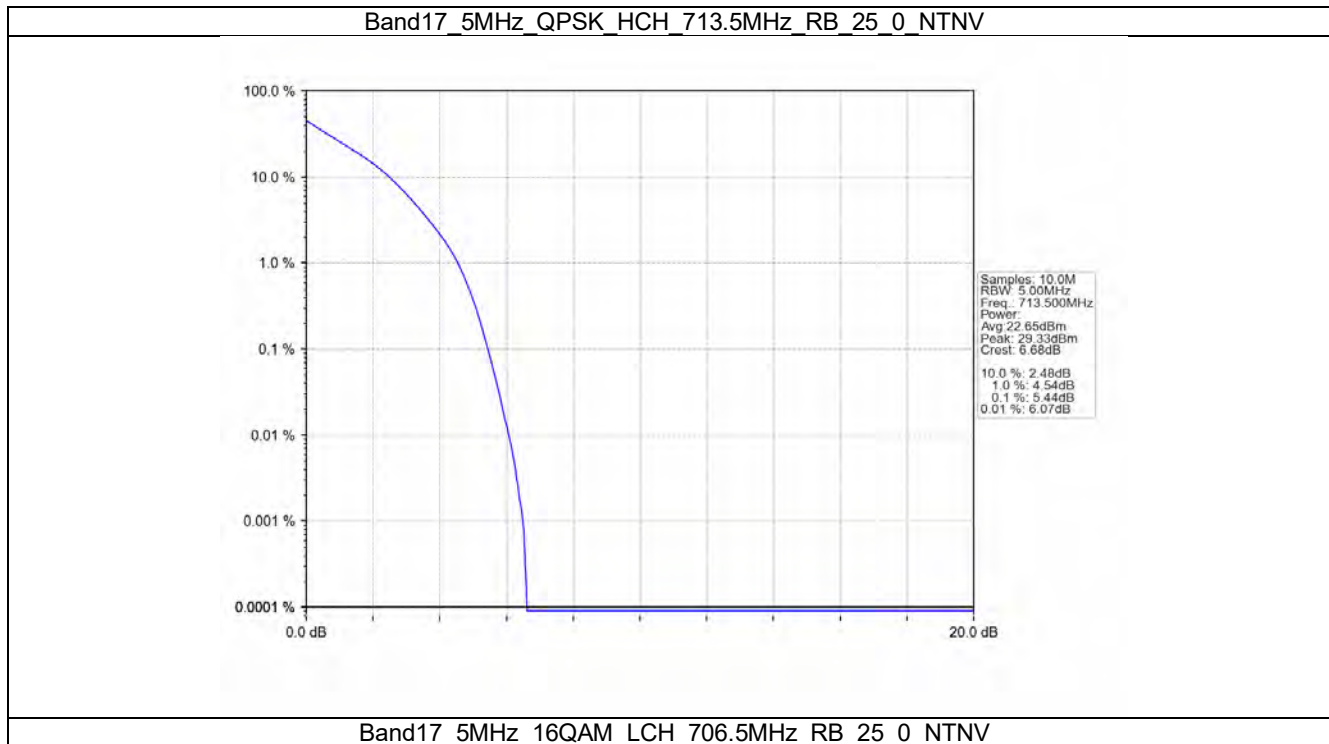
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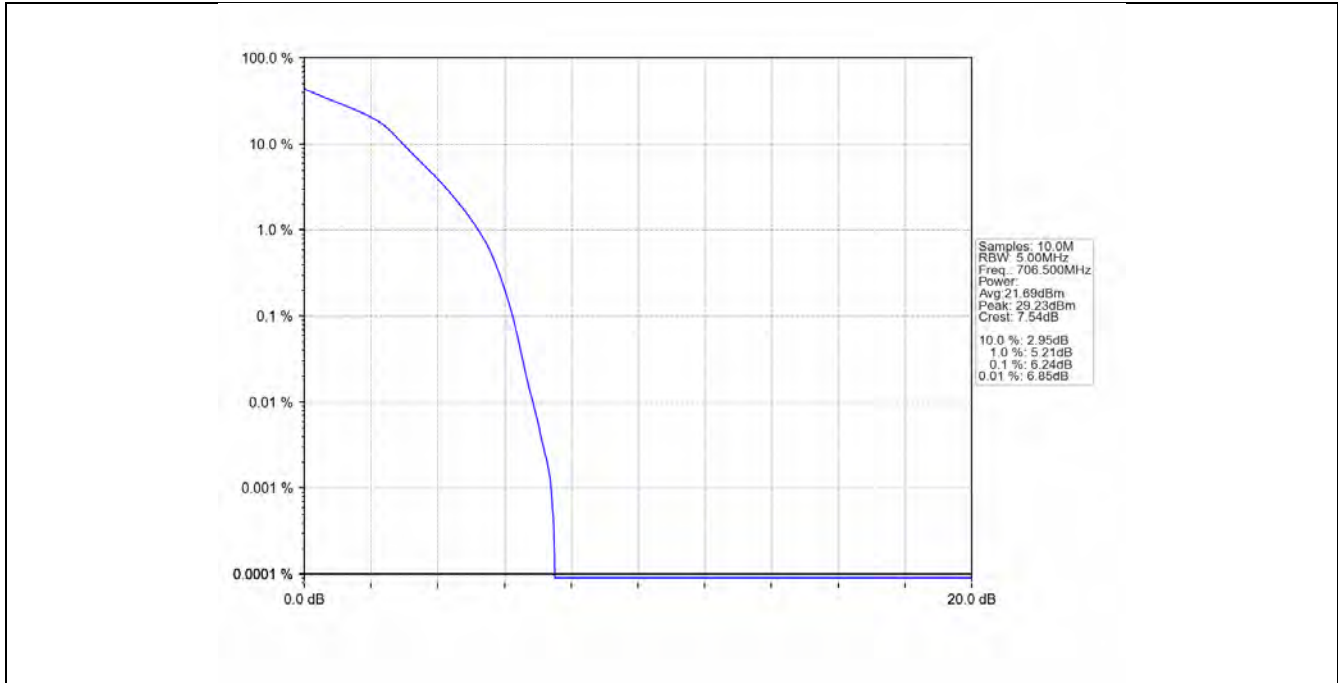


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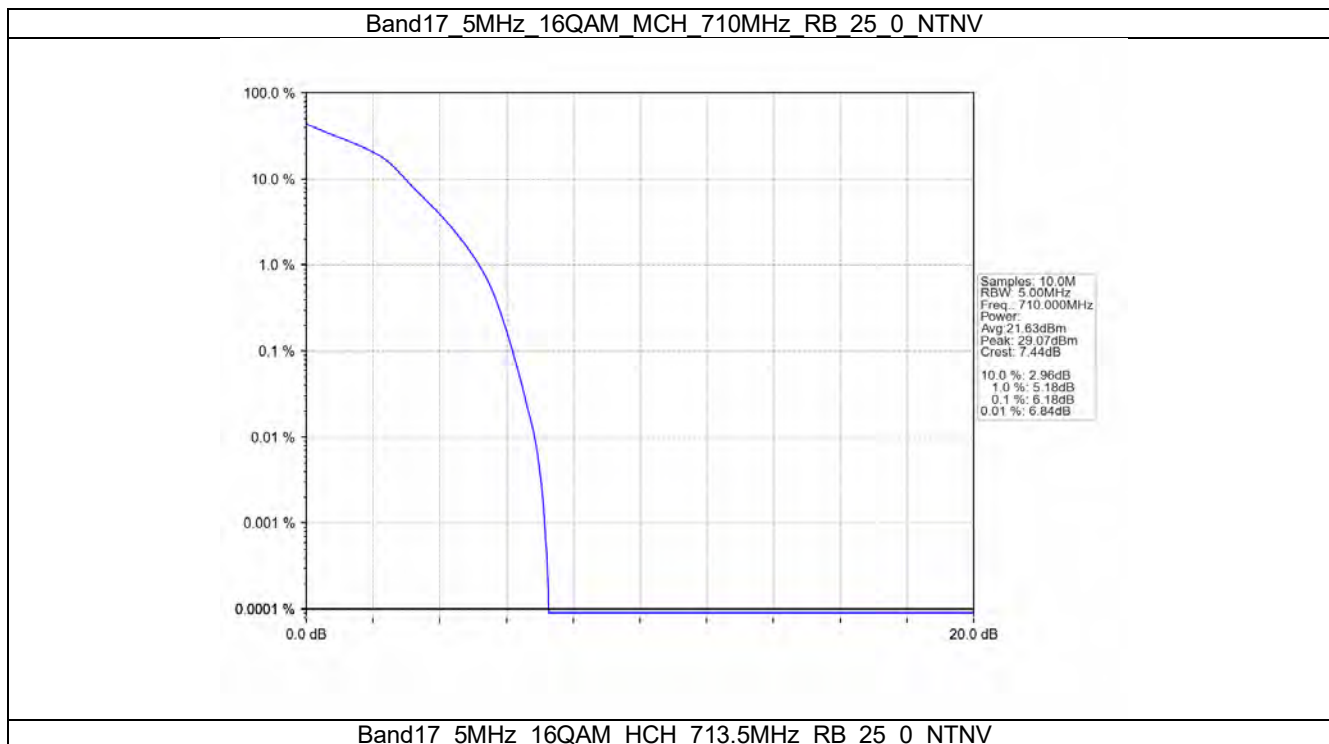
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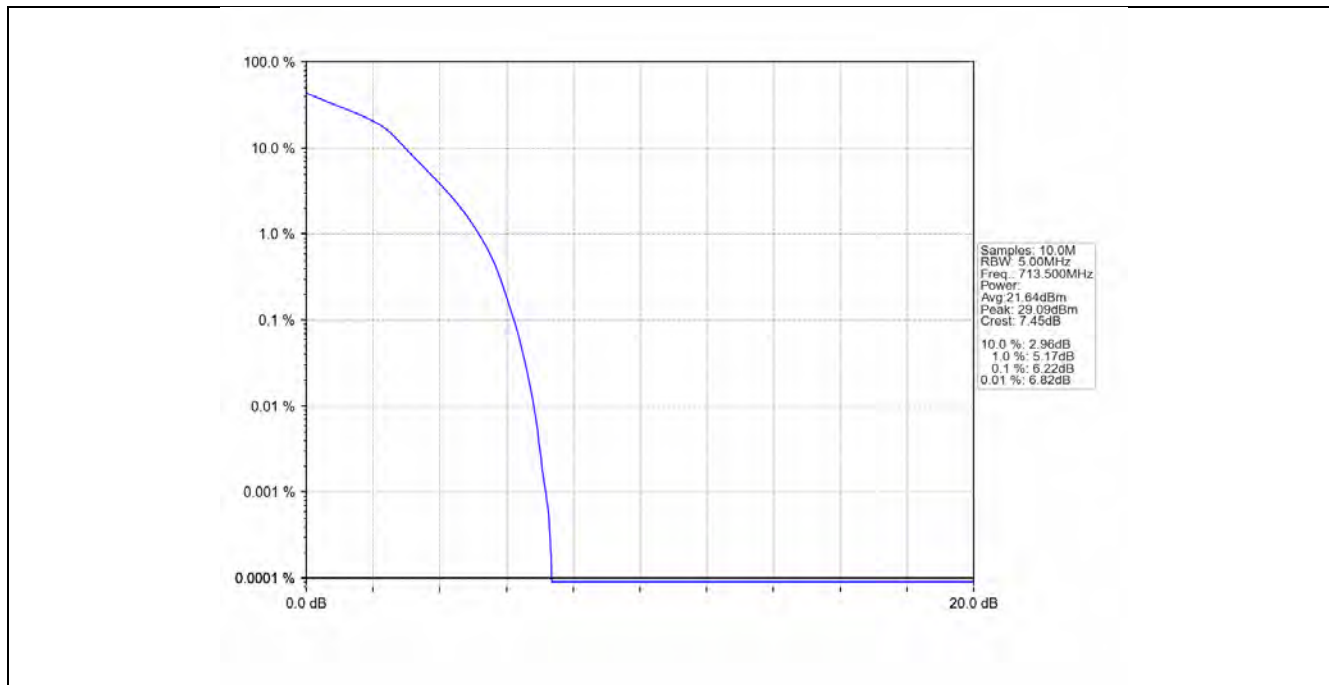
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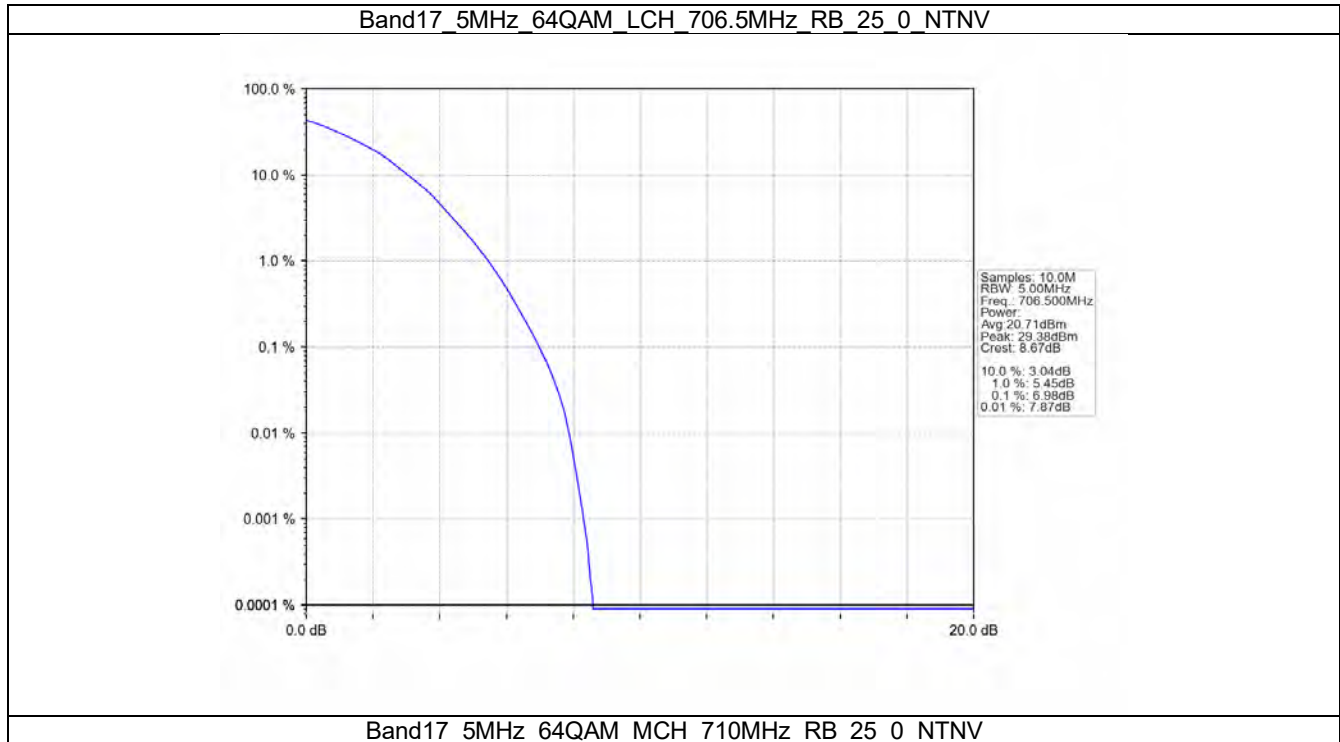


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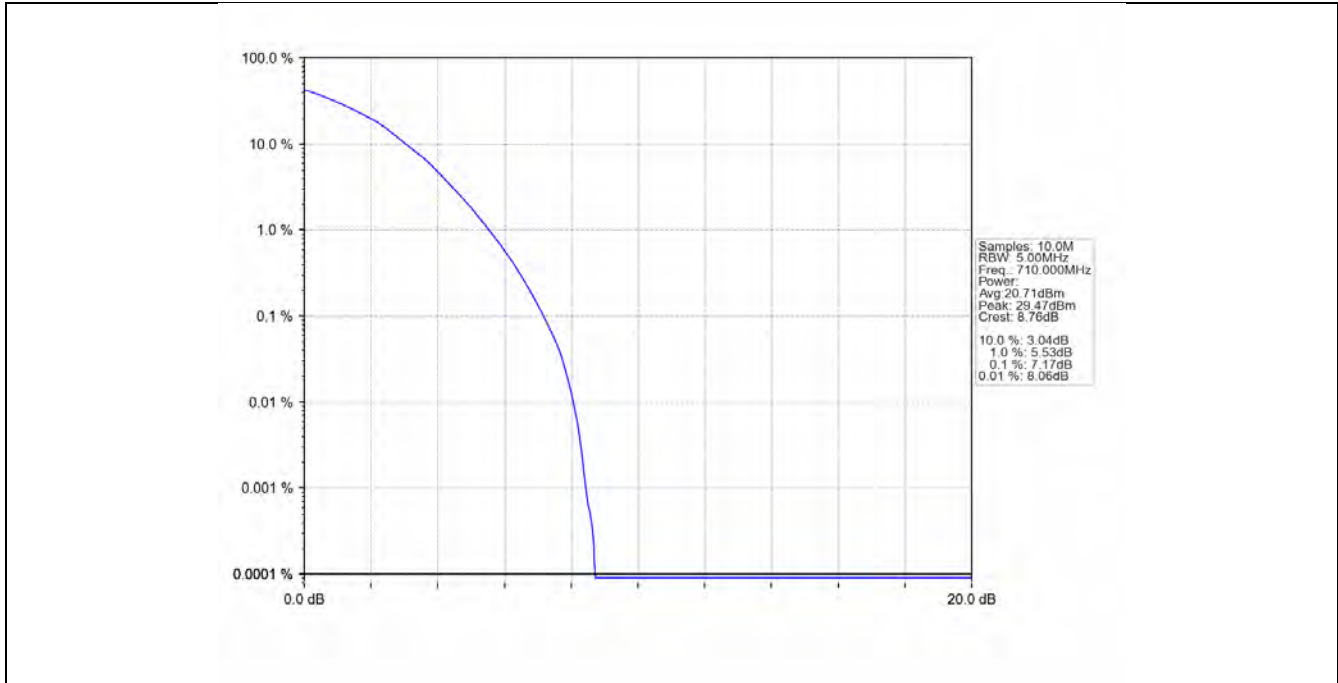


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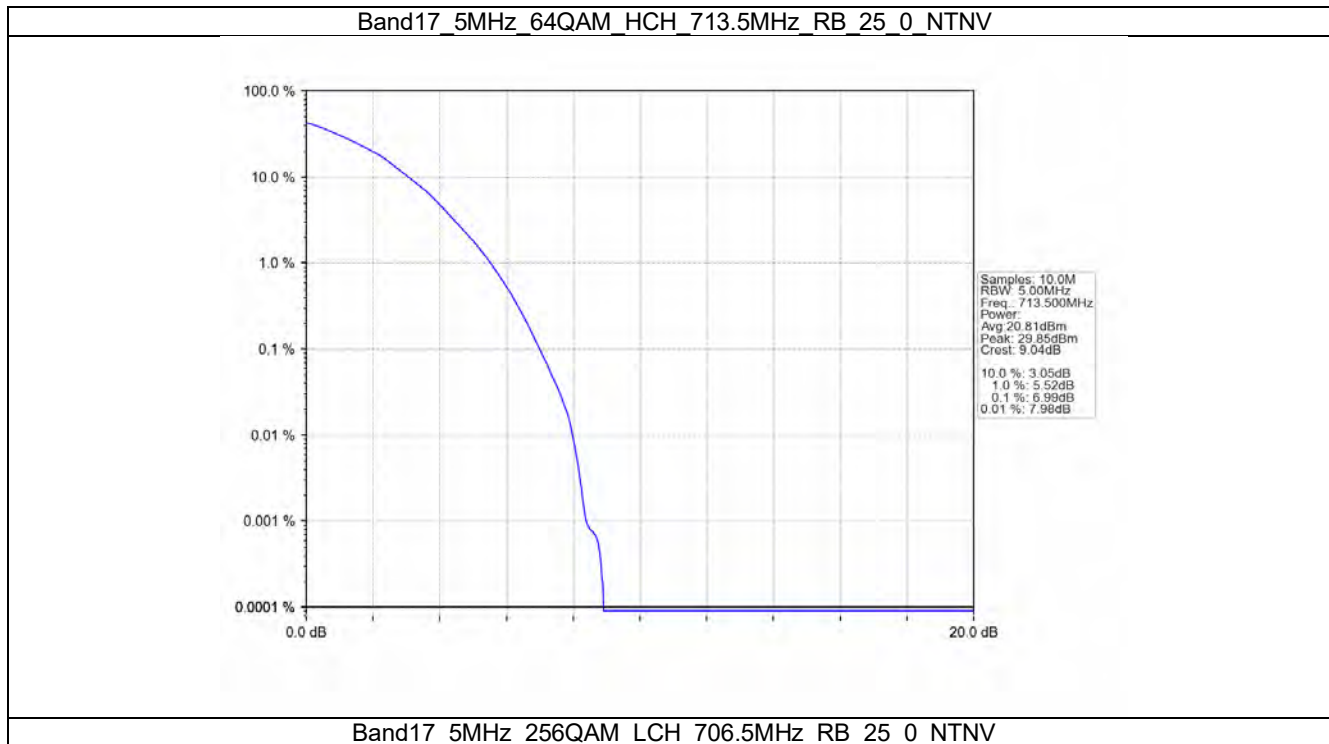
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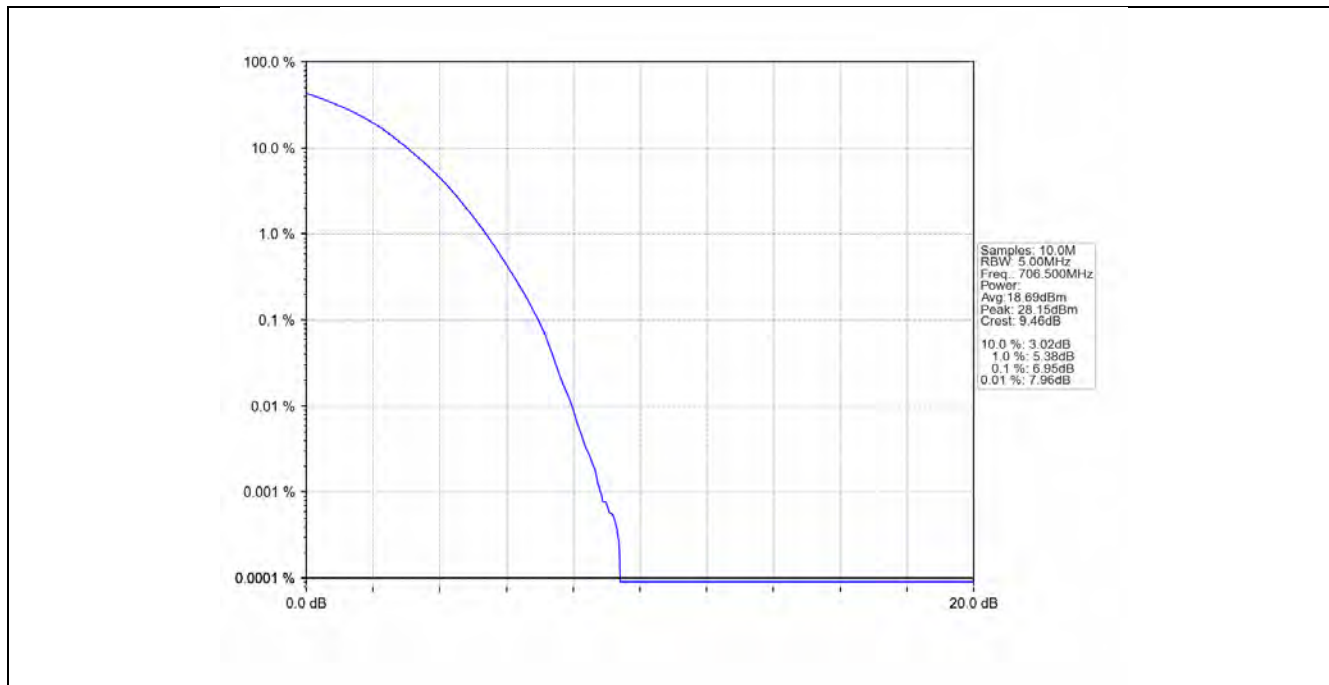
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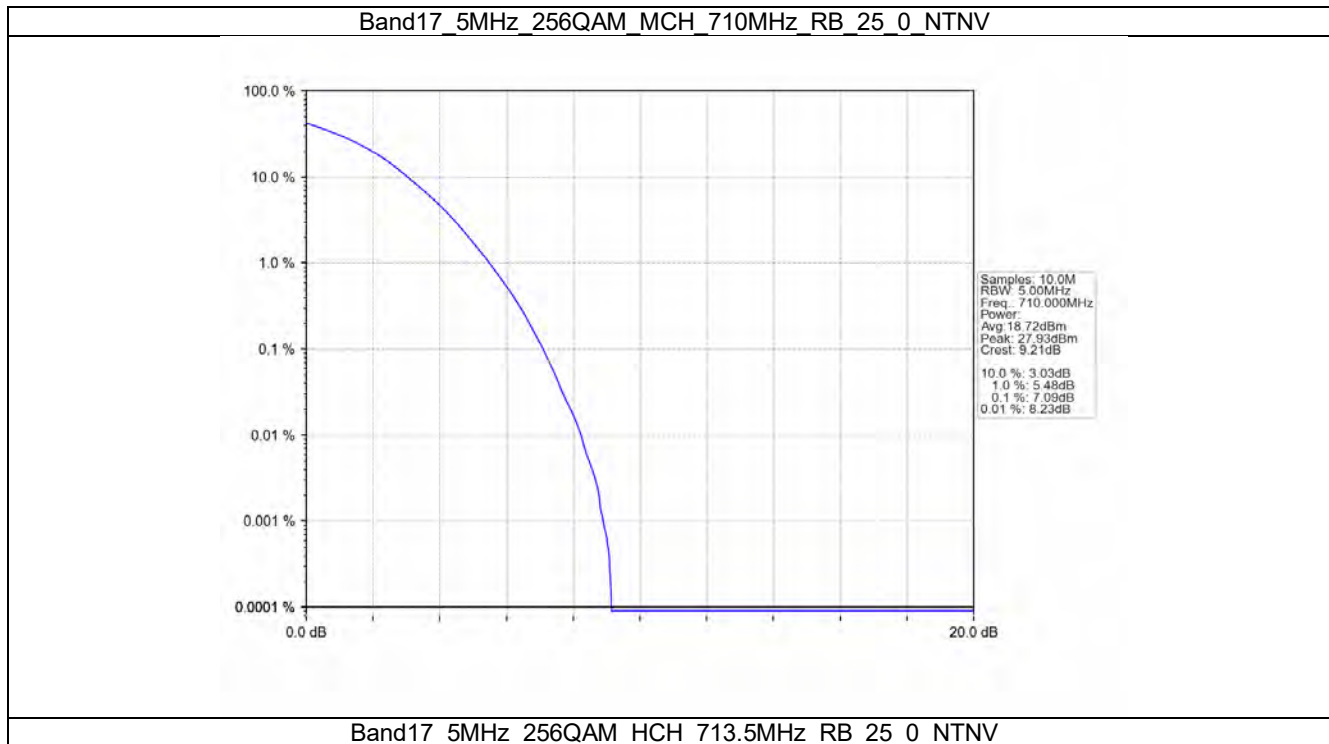
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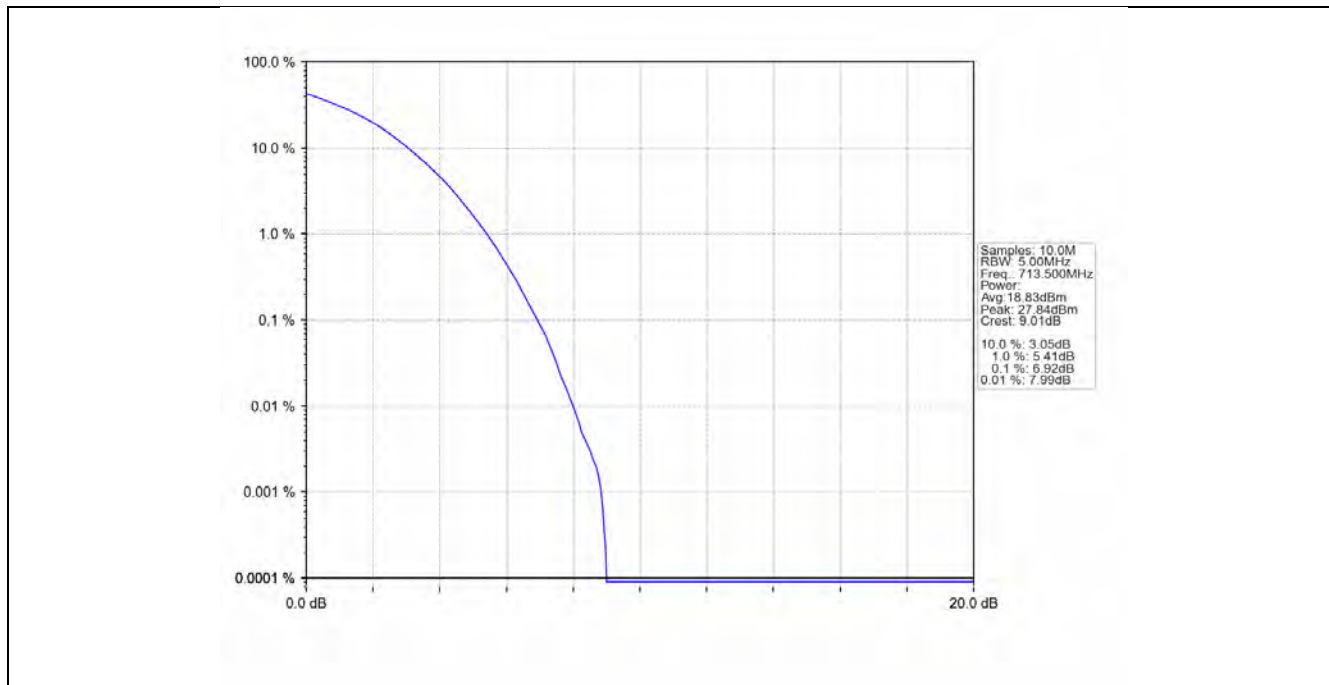
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## 4.2 B17\_10MHz

### 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	5.30	<=13	Pass
	710	50	0	5.39	<=13	Pass
	711	50	0	5.49	<=13	Pass
16QAM	709	50	0	6.19	<=13	Pass
	710	50	0	6.23	<=13	Pass
	711	50	0	6.24	<=13	Pass
64QAM	709	50	0	6.96	<=13	Pass
	710	50	0	7.03	<=13	Pass
	711	50	0	7.01	<=13	Pass
256QAM	709	50	0	6.90	<=13	Pass
	710	50	0	6.91	<=13	Pass
	711	50	0	7.07	<=13	Pass



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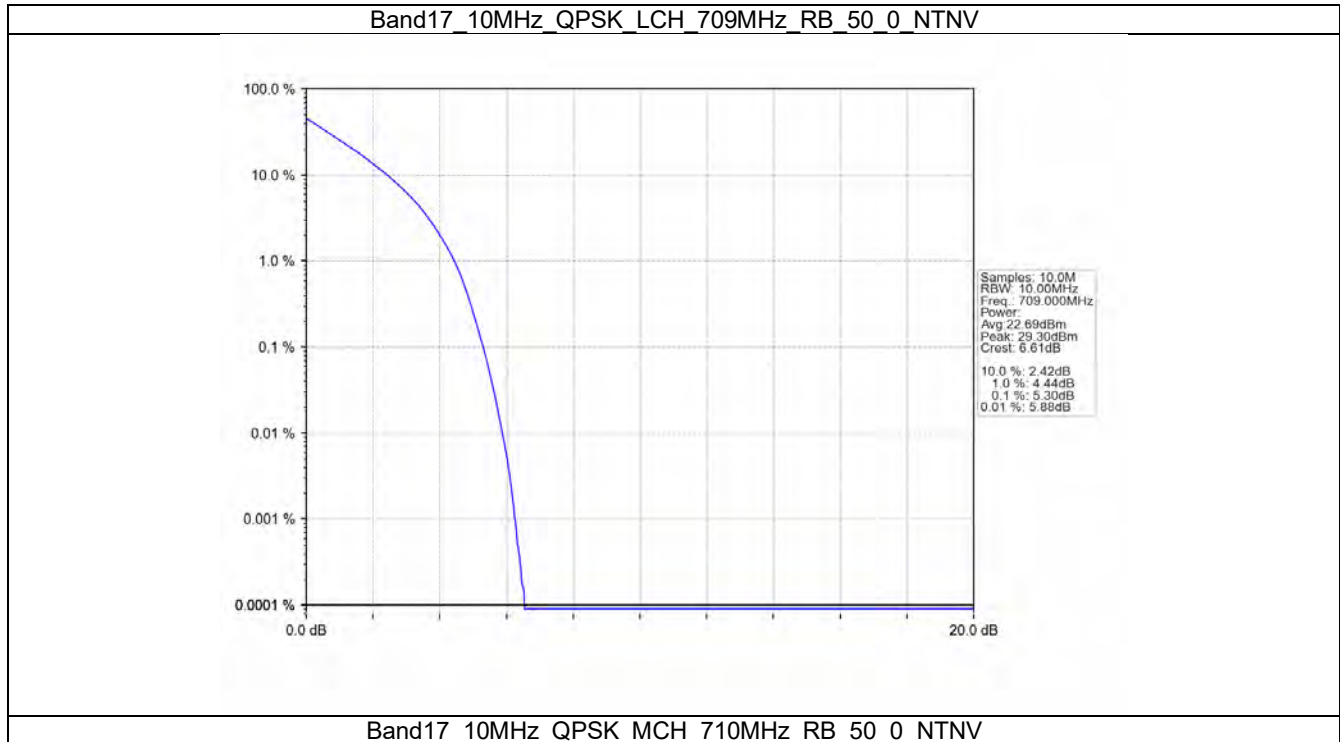
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4.2.2 Test Graph



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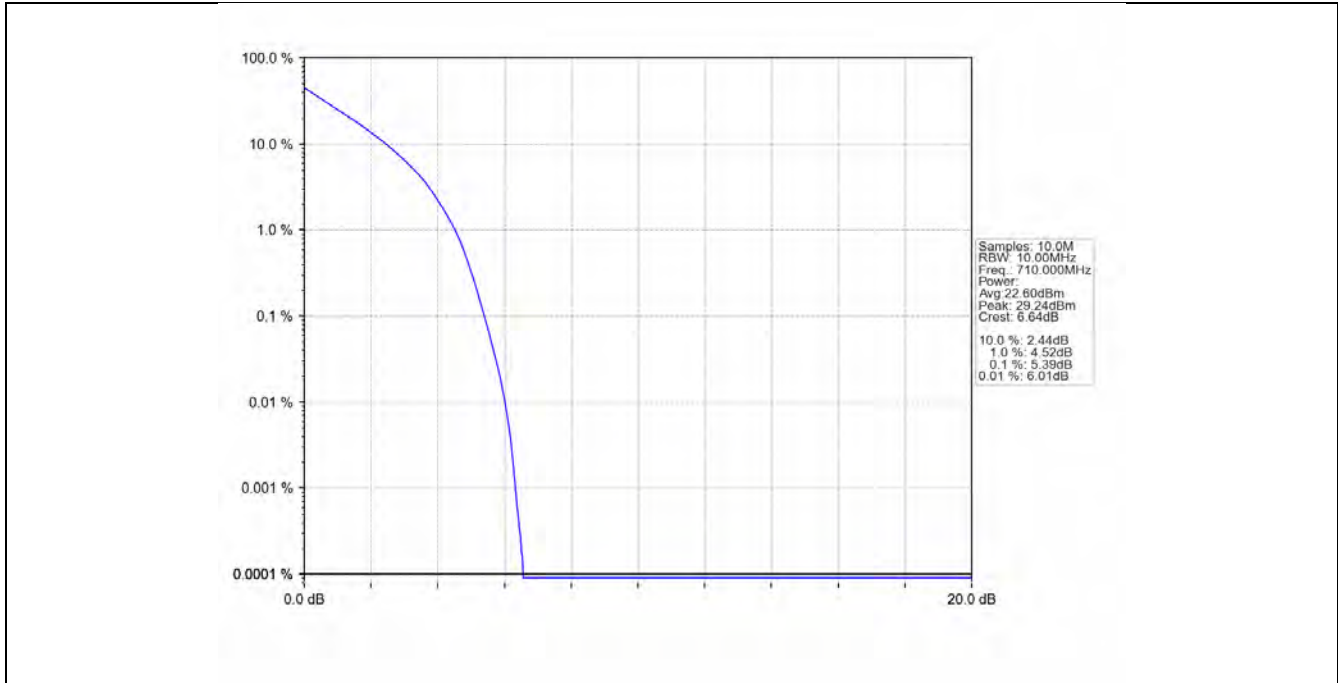


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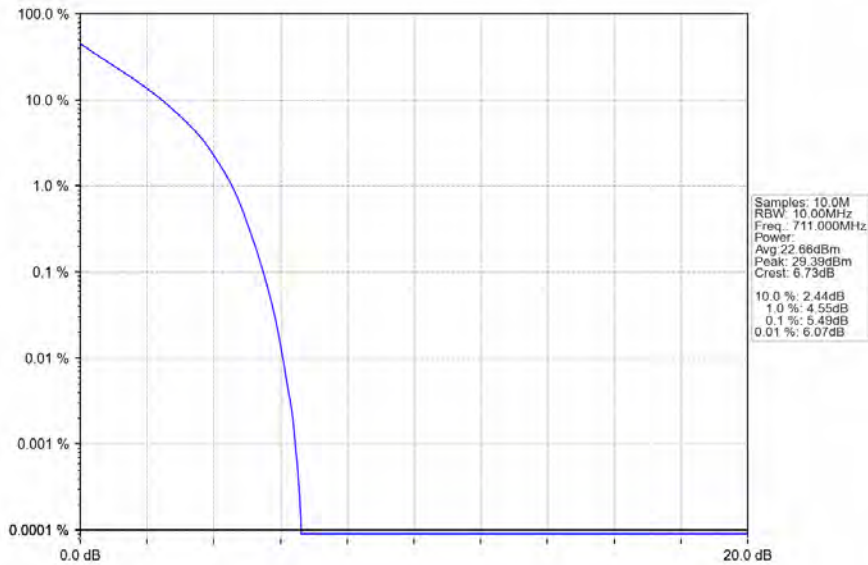
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Band17 10MHz QPSK HCH 711MHz RB 50 0 NTV



Band17 10MHz 16QAM LCH 709MHz RB 50 0 NTV



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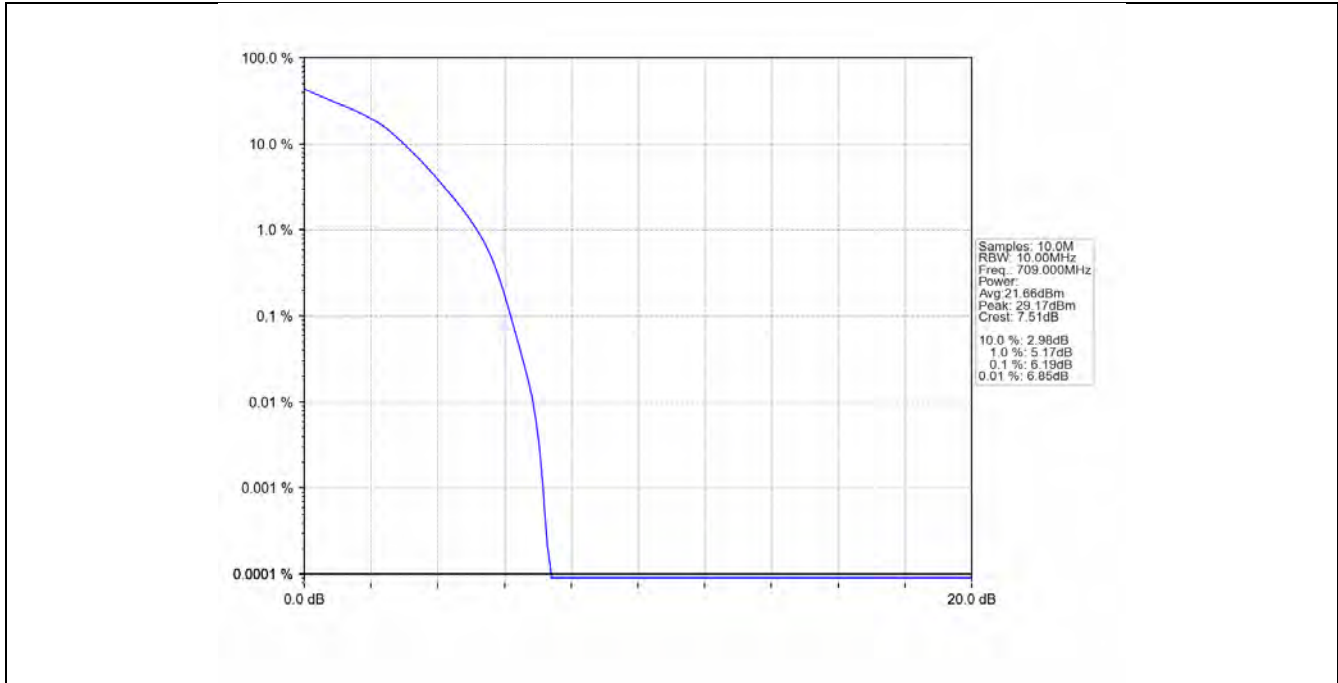


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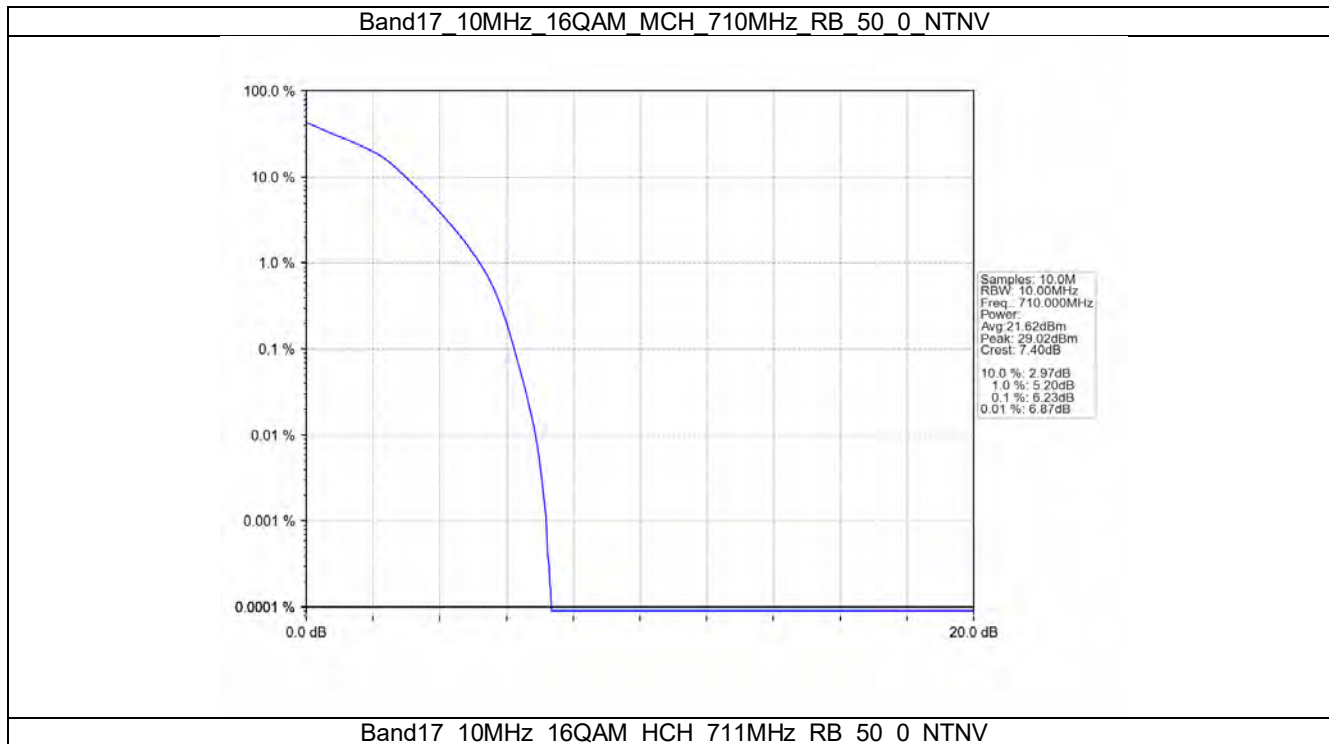
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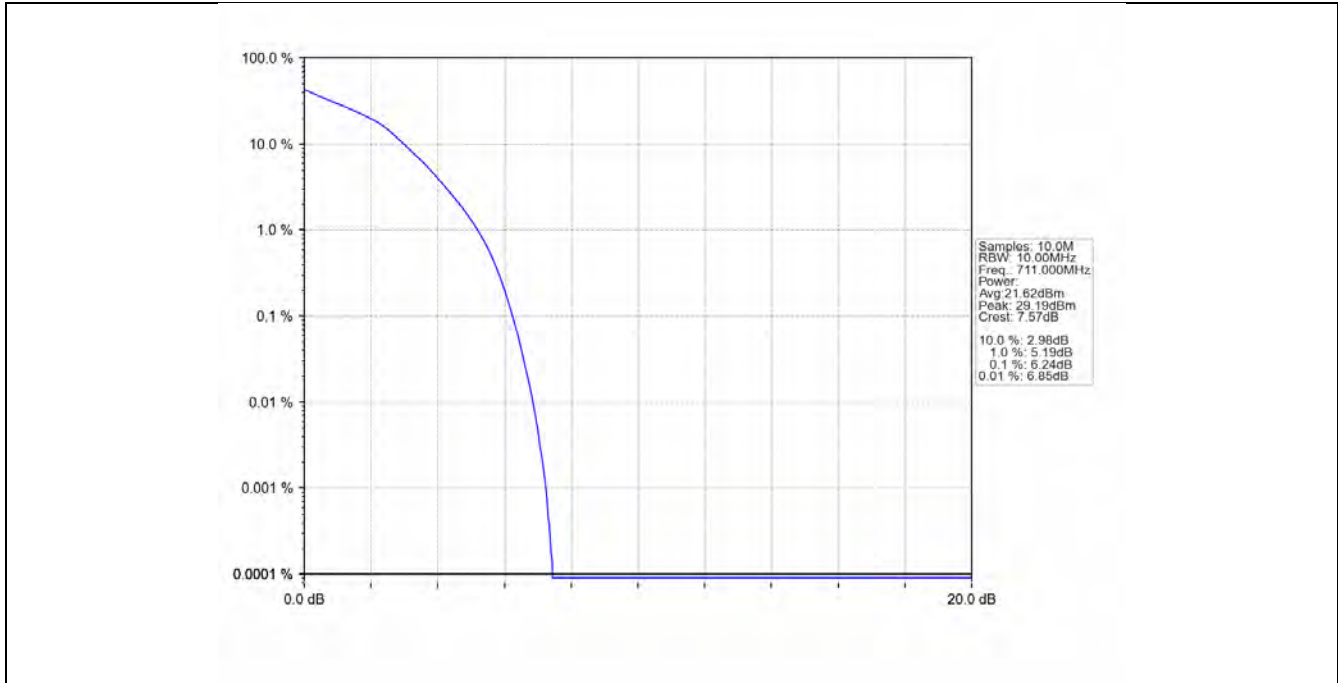


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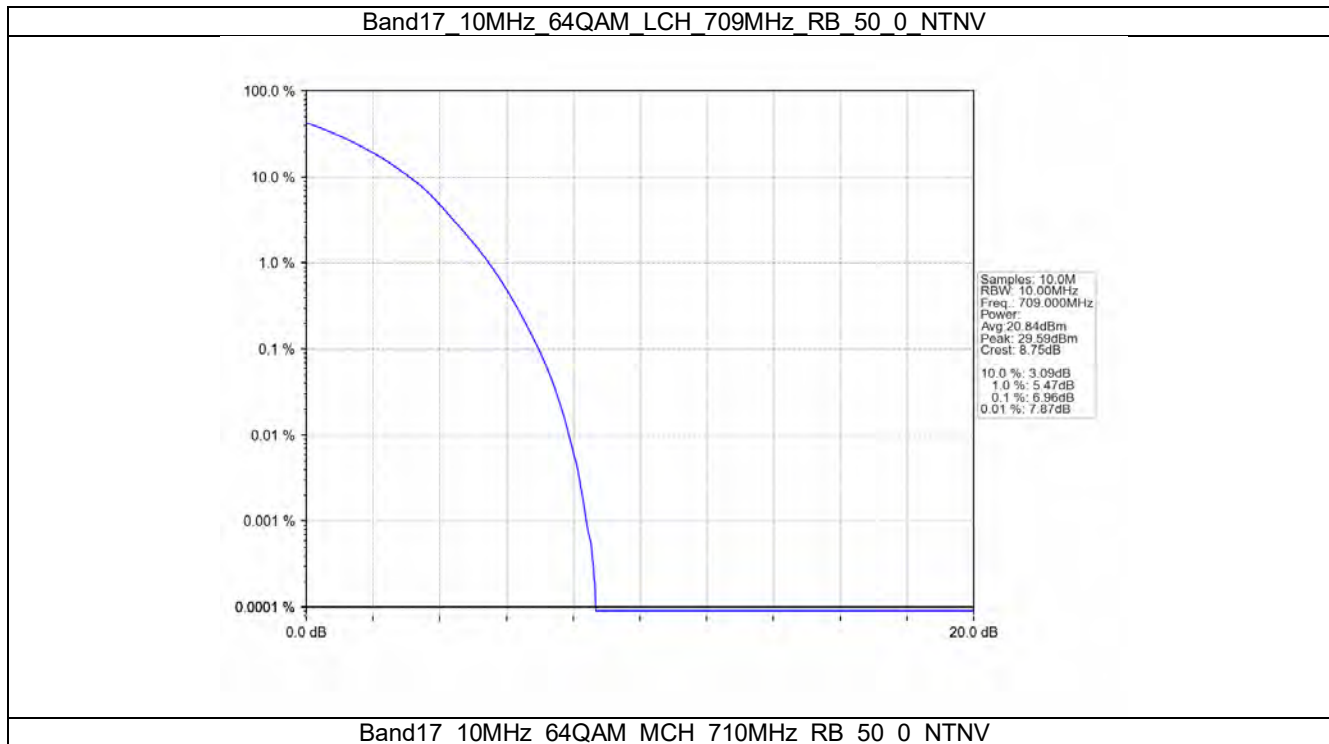
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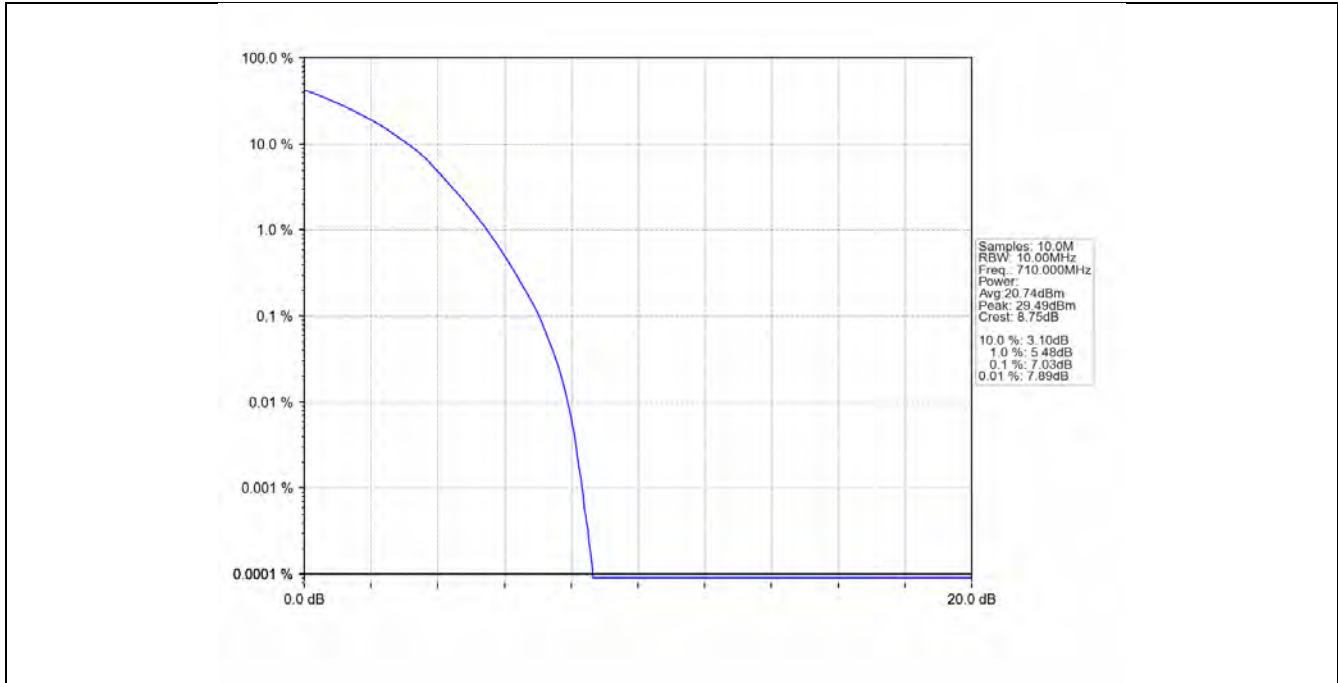


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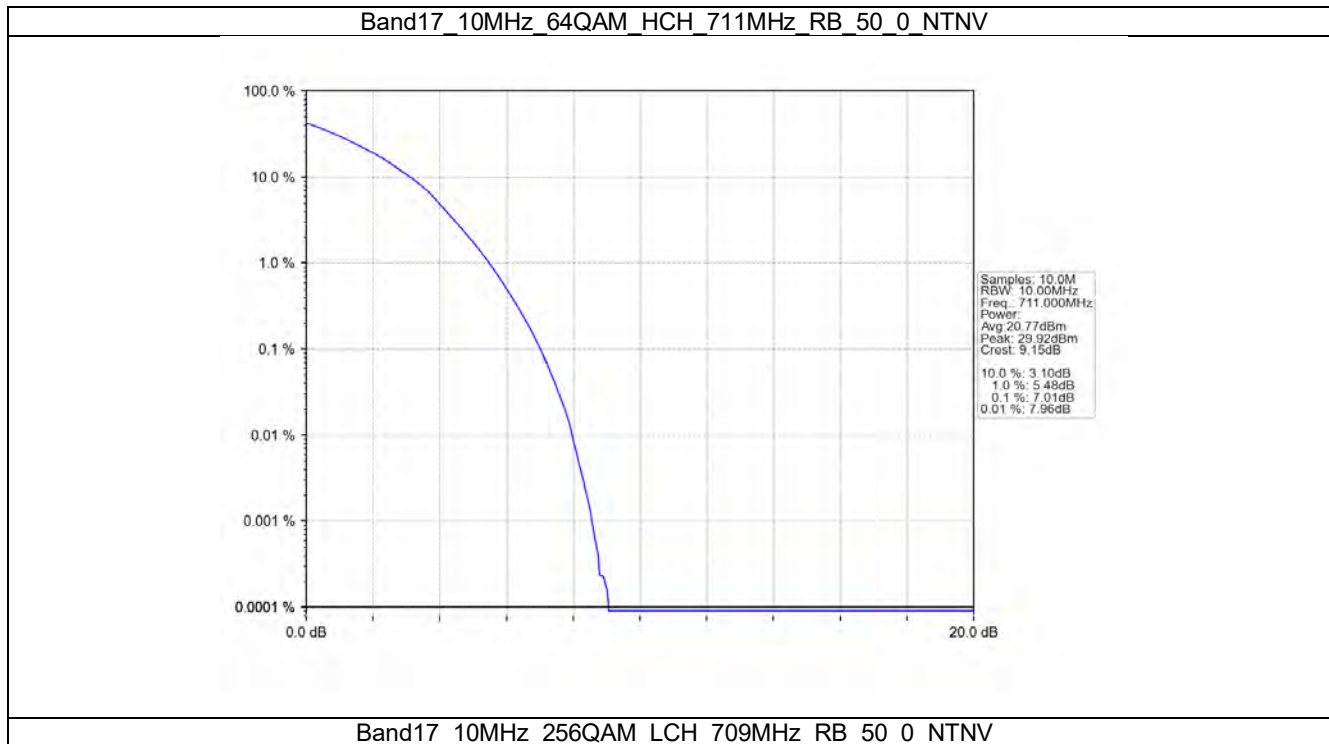
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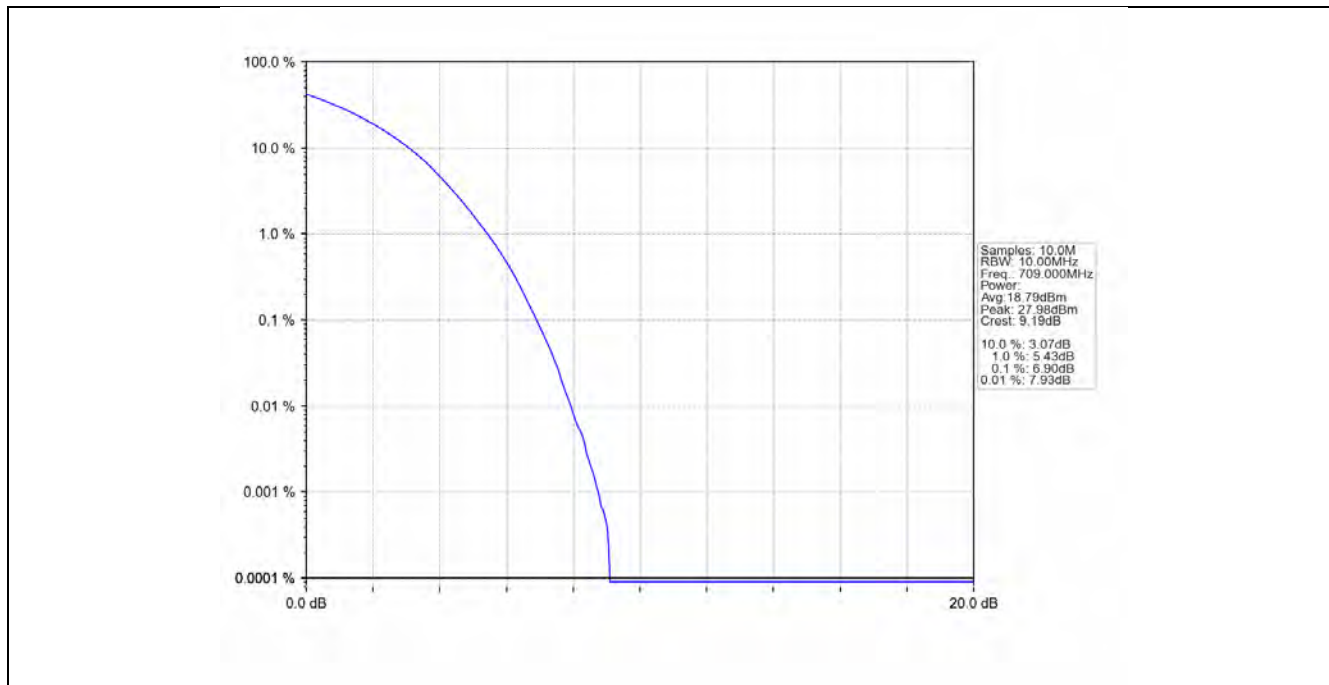
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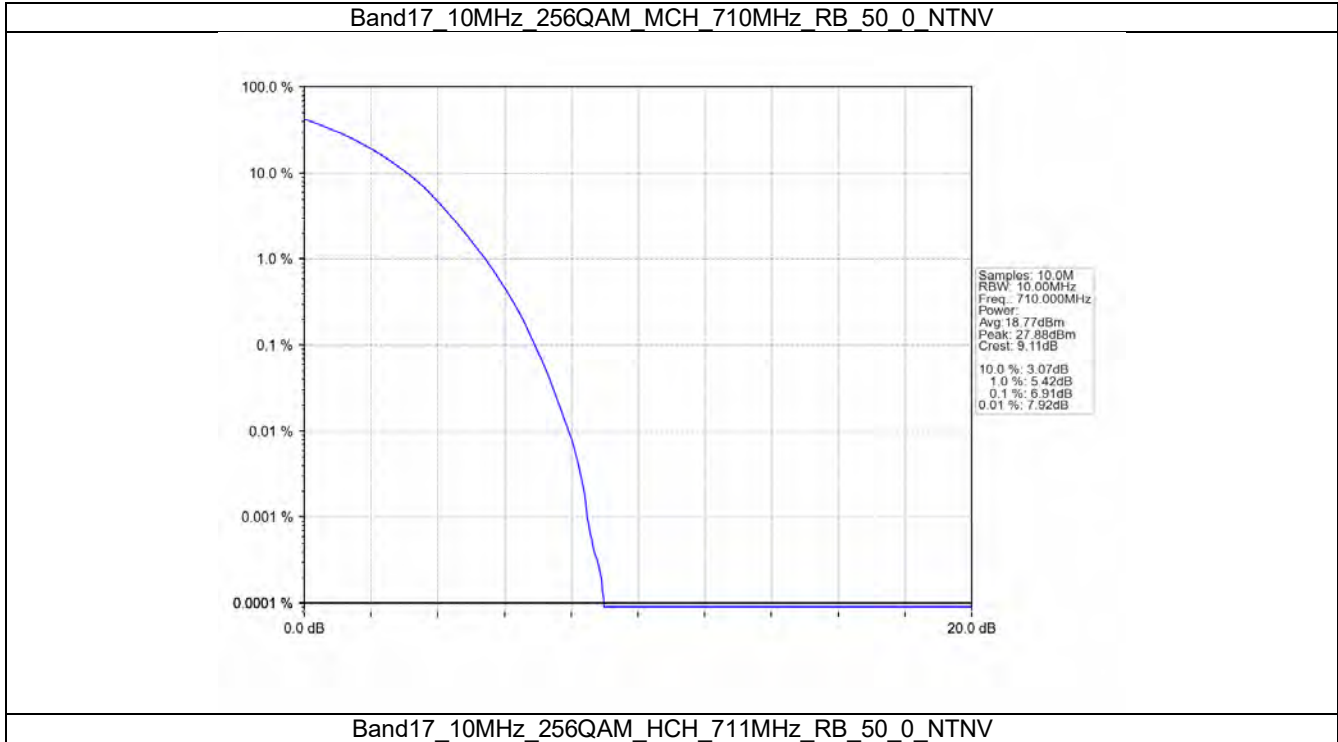


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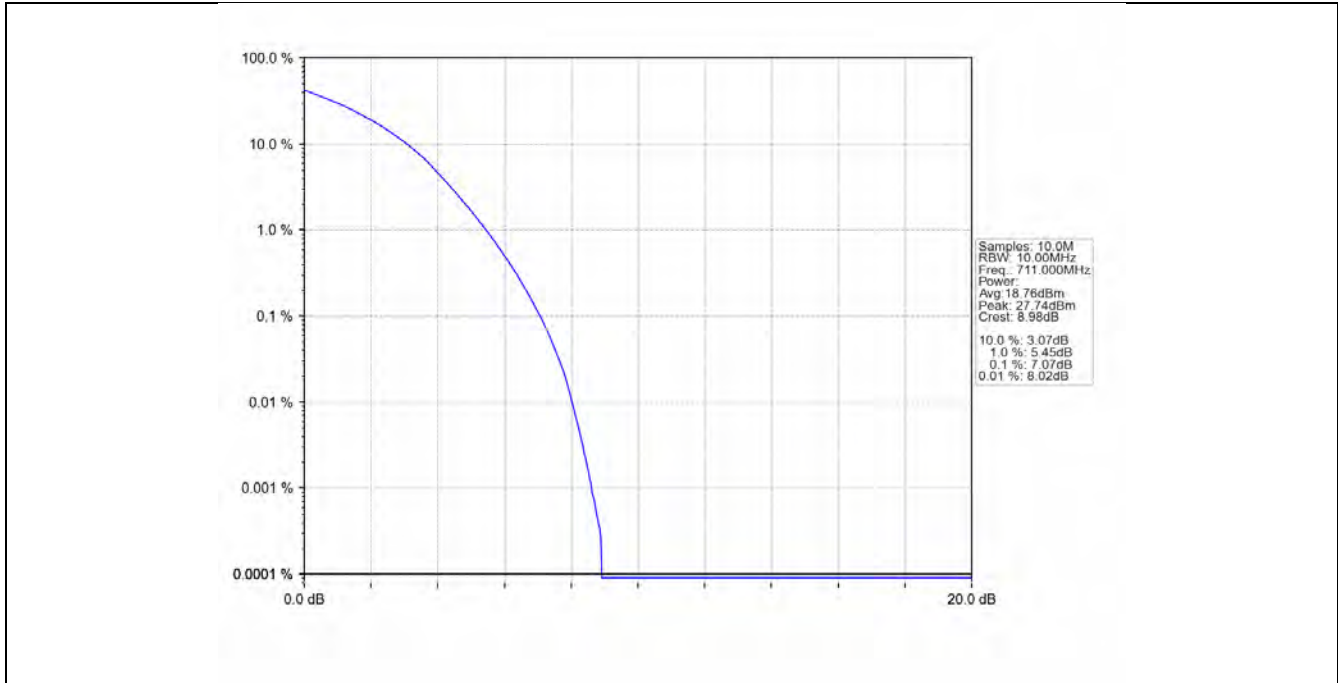


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## 5. Spurious Emission & Band Edges

### 5.1 B17\_5MHz

#### 5.1.1 Test Result

Band: 17 / Bandwidth: 5MHz / NTNV						
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
	713.5	1	0	Refer To Test Graph		Pass
			24	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
	713.5	1	0	Refer To Test Graph		Pass
			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
	713.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
256QAM	706.5	1	0	Refer To Test Graph		Pass
		25	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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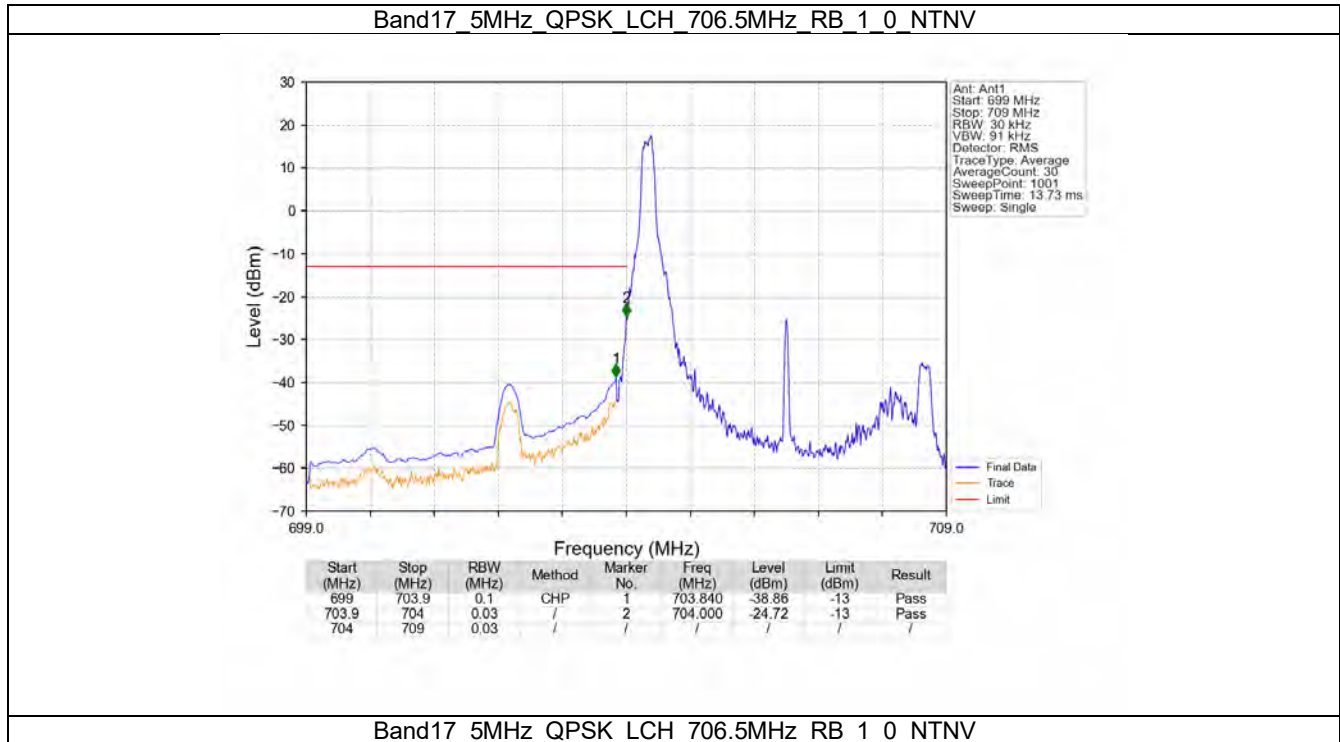
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5.1.2 Test Graph



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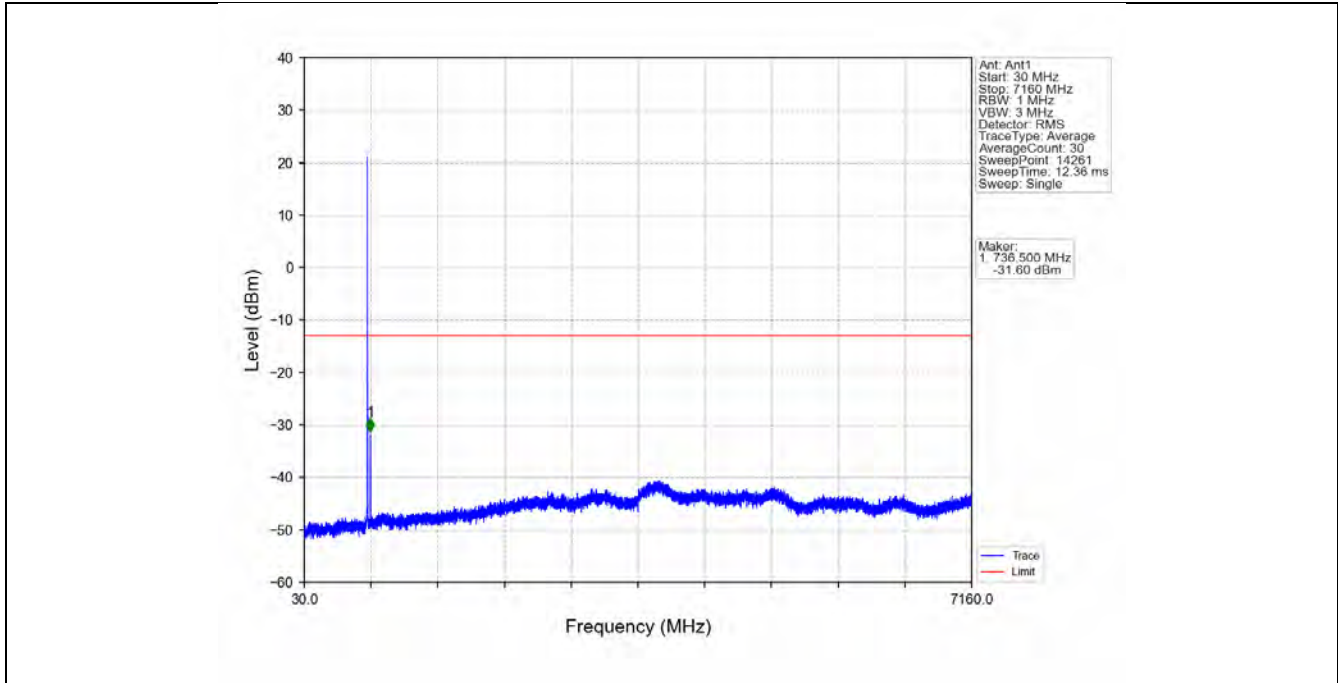


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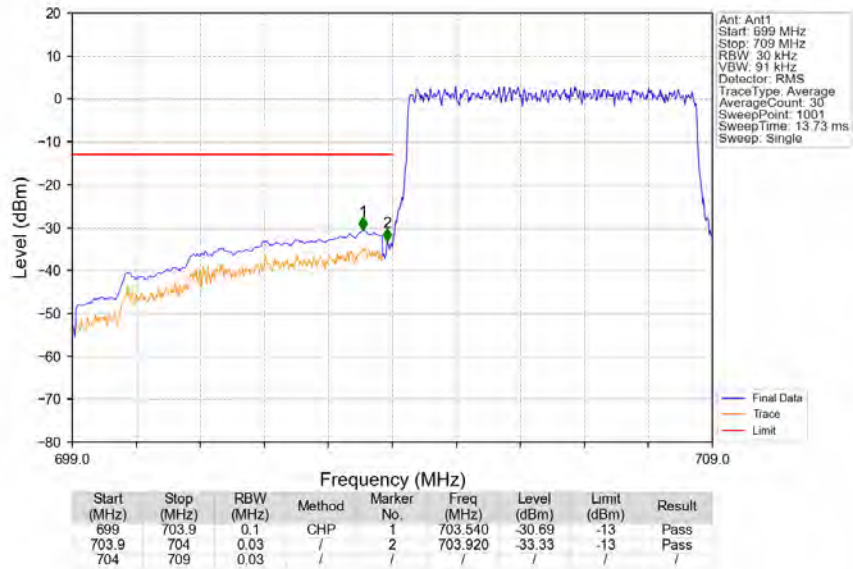
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Band17\_5MHz\_QPSK\_LCH\_706.5MHz\_RB\_25\_0\_NTNV



Band17\_5MHz\_QPSK\_MCH\_710MHz\_RB\_1\_0\_NTNV



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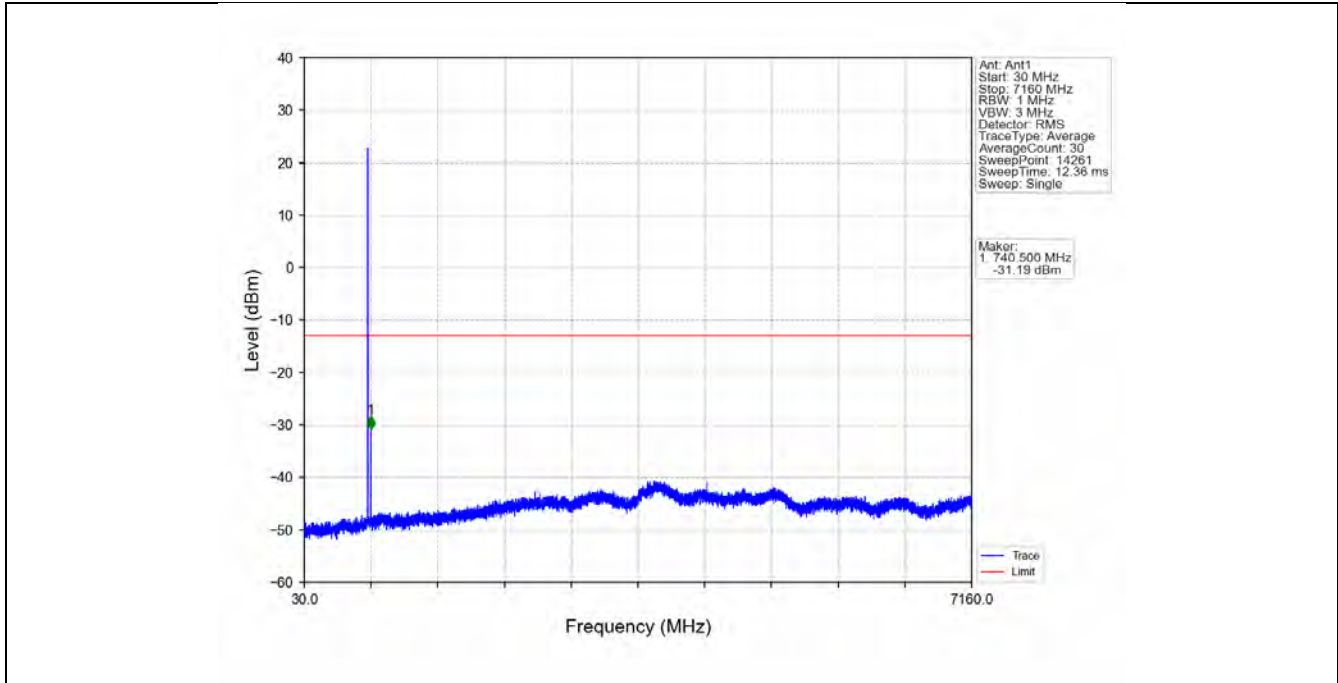


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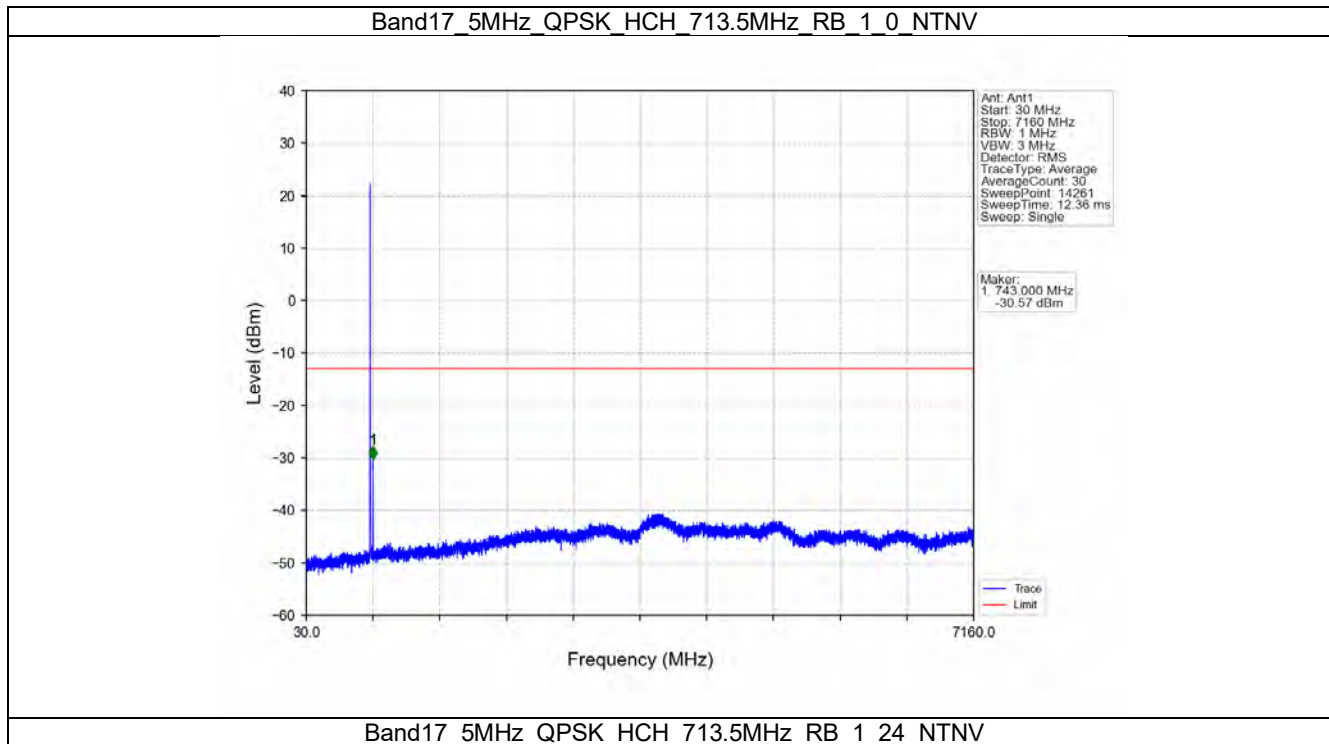
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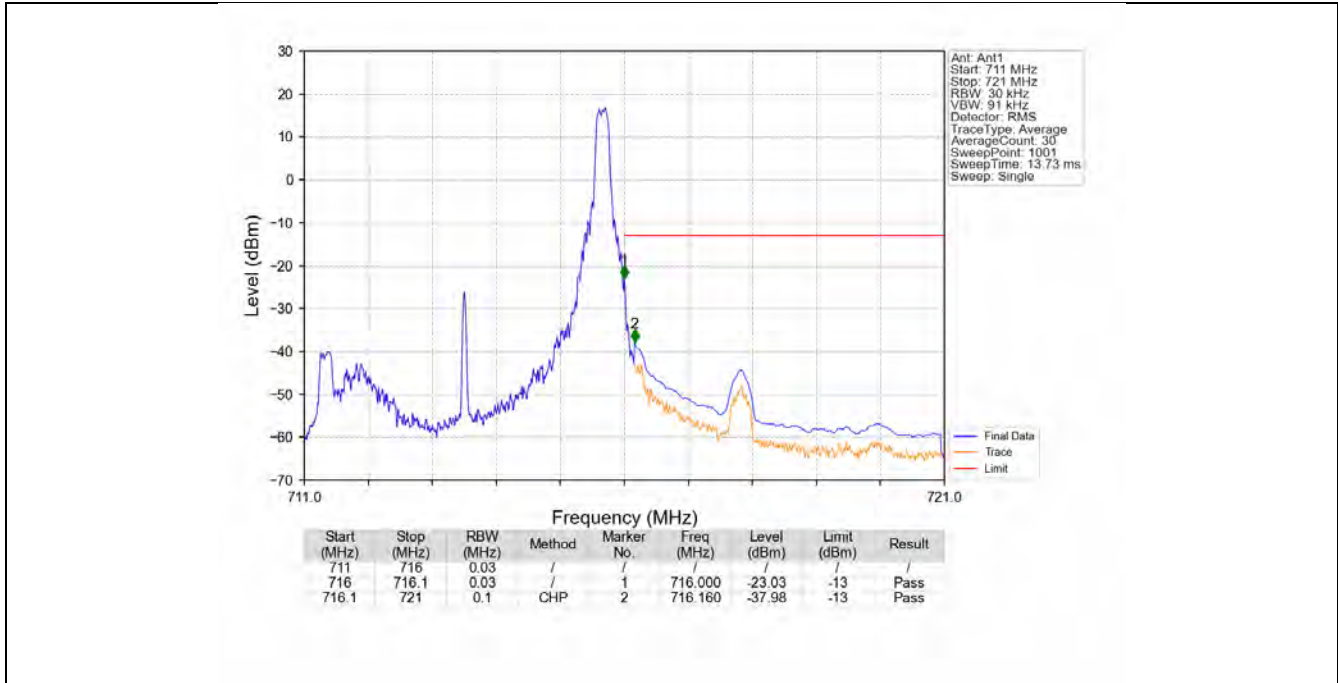


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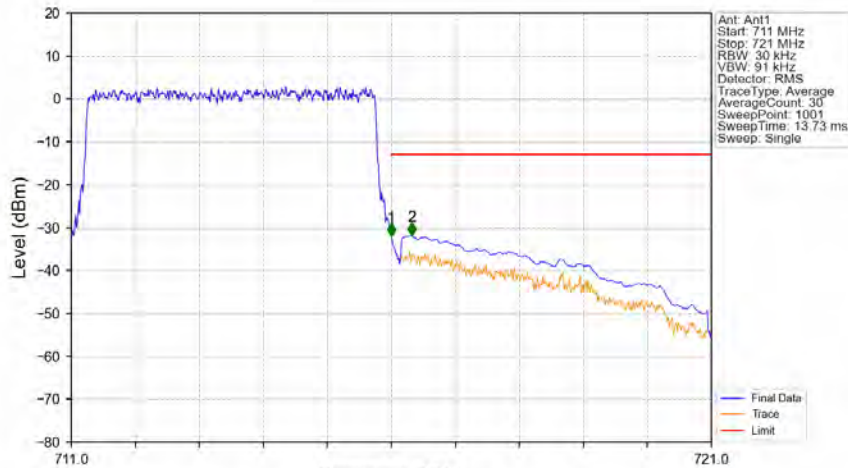
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Band17\_5MHz\_QPSK\_HCH\_713.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	1	716.000	-32.06	-13	Pass
716.1	721	0.1	CHP	2	716.320	-31.83	-13	Pass

Band17\_5MHz\_16QAM\_LCH\_706.5MHz\_RB\_1\_0\_NTNV



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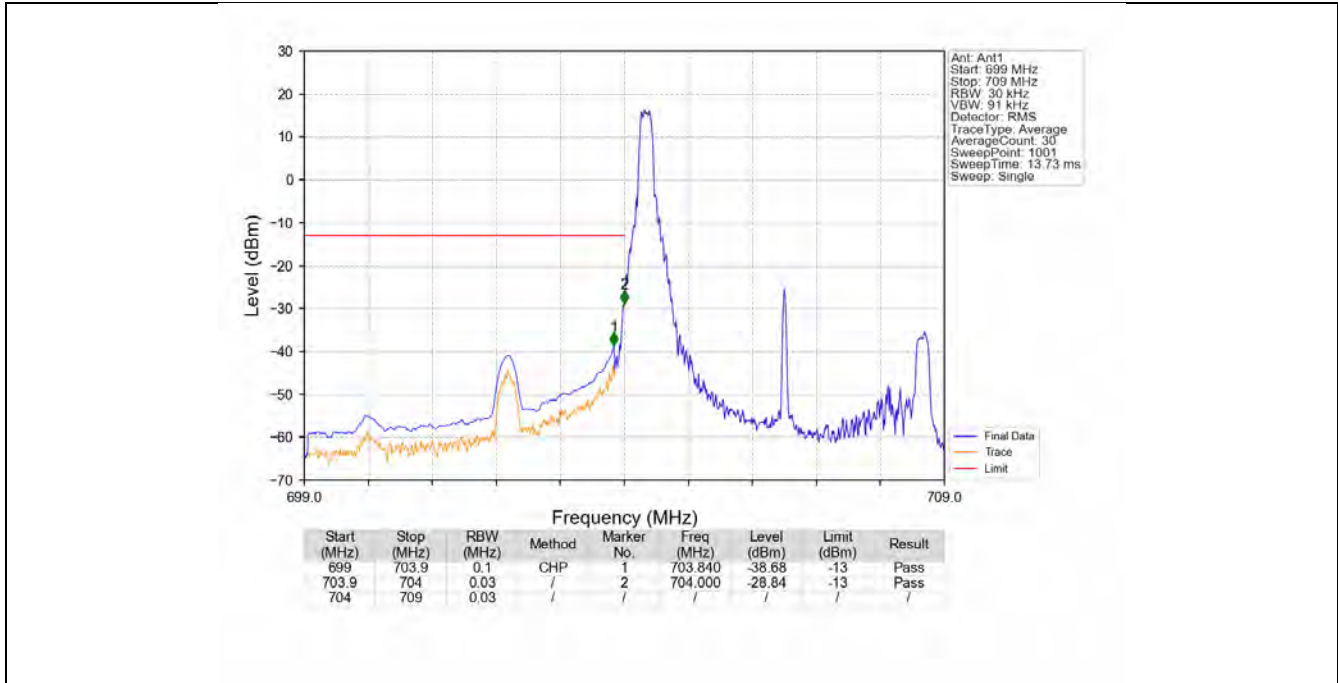


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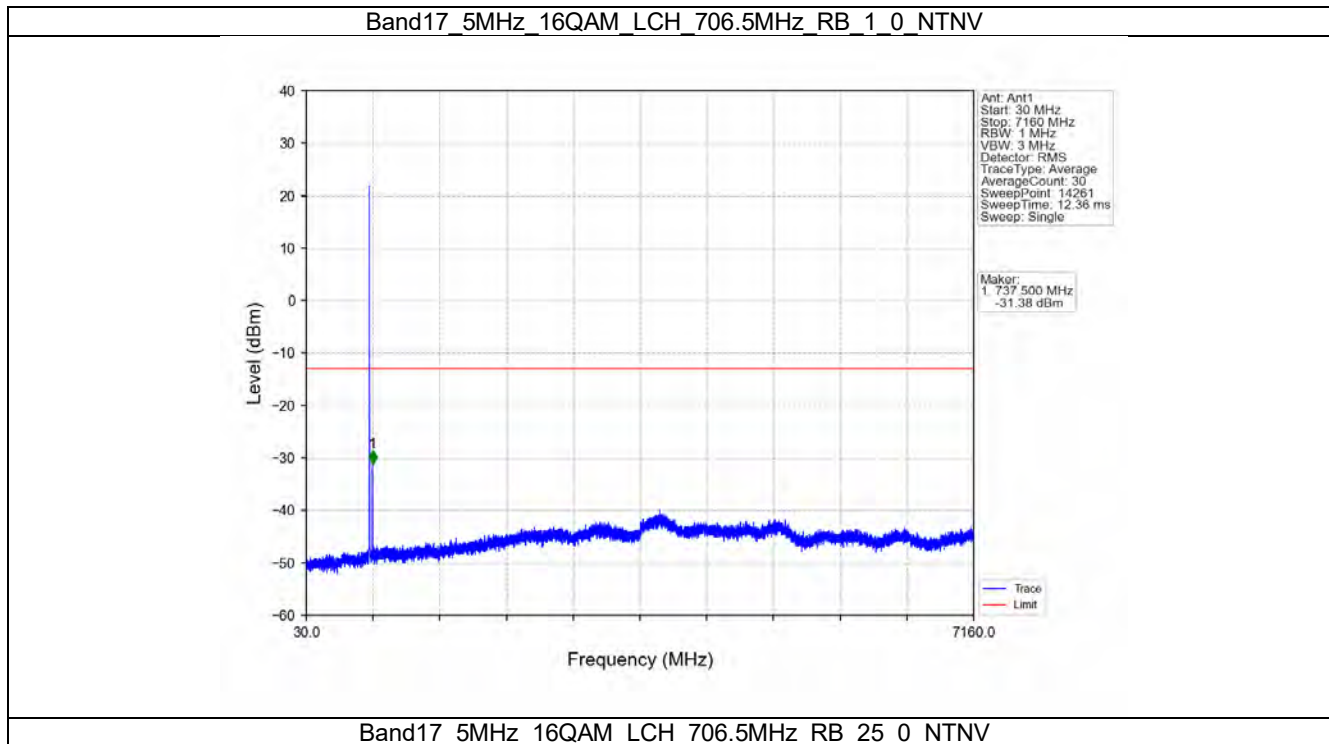
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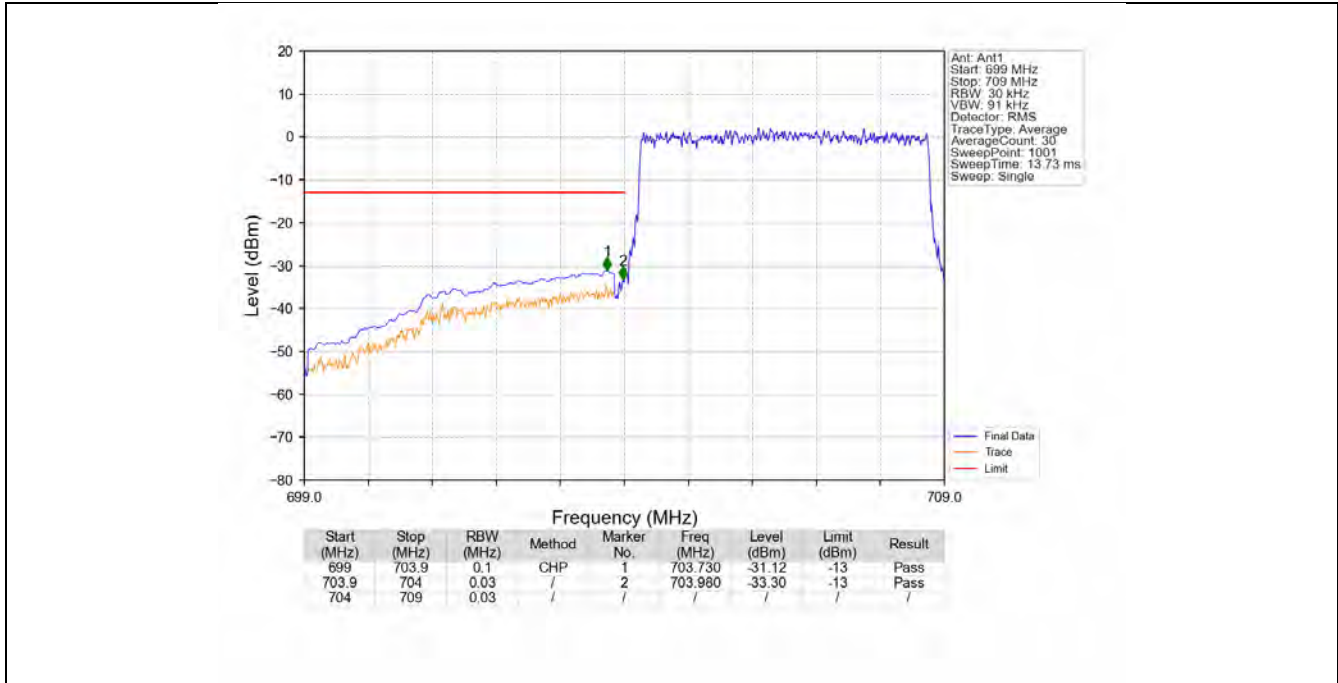


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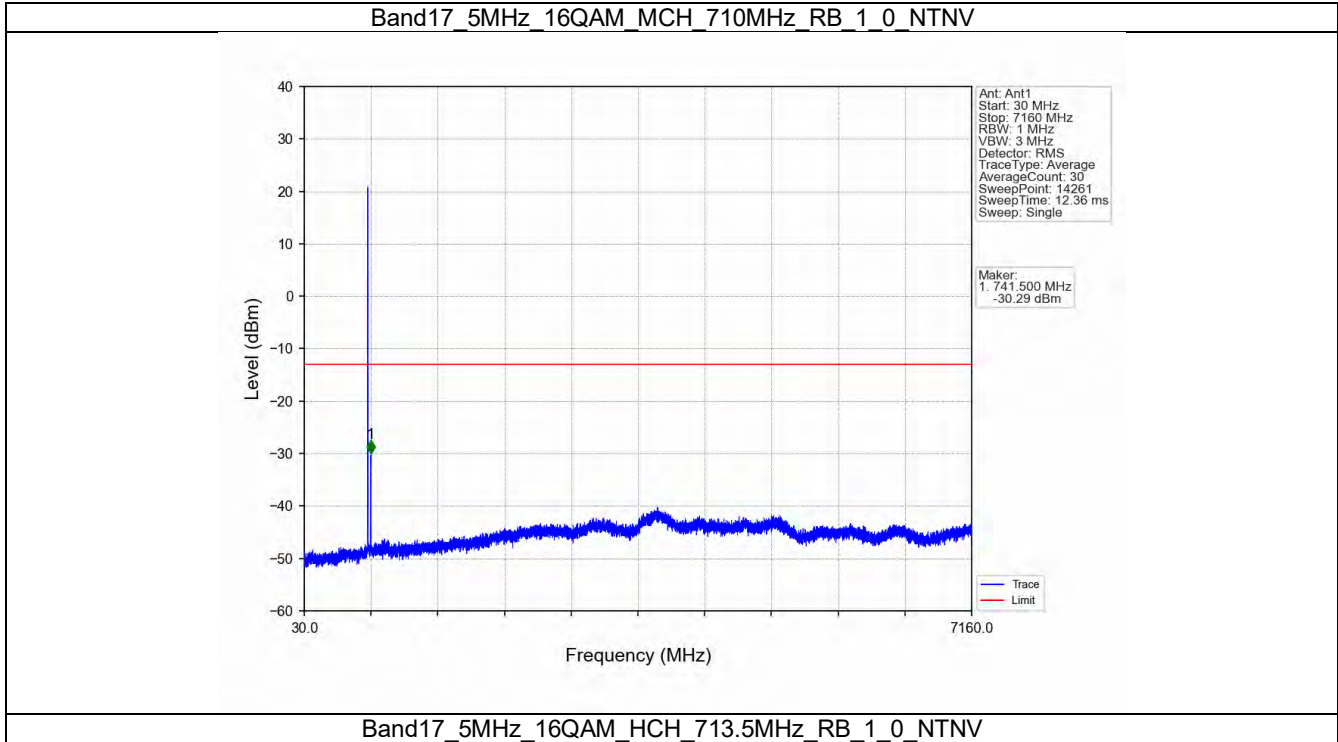


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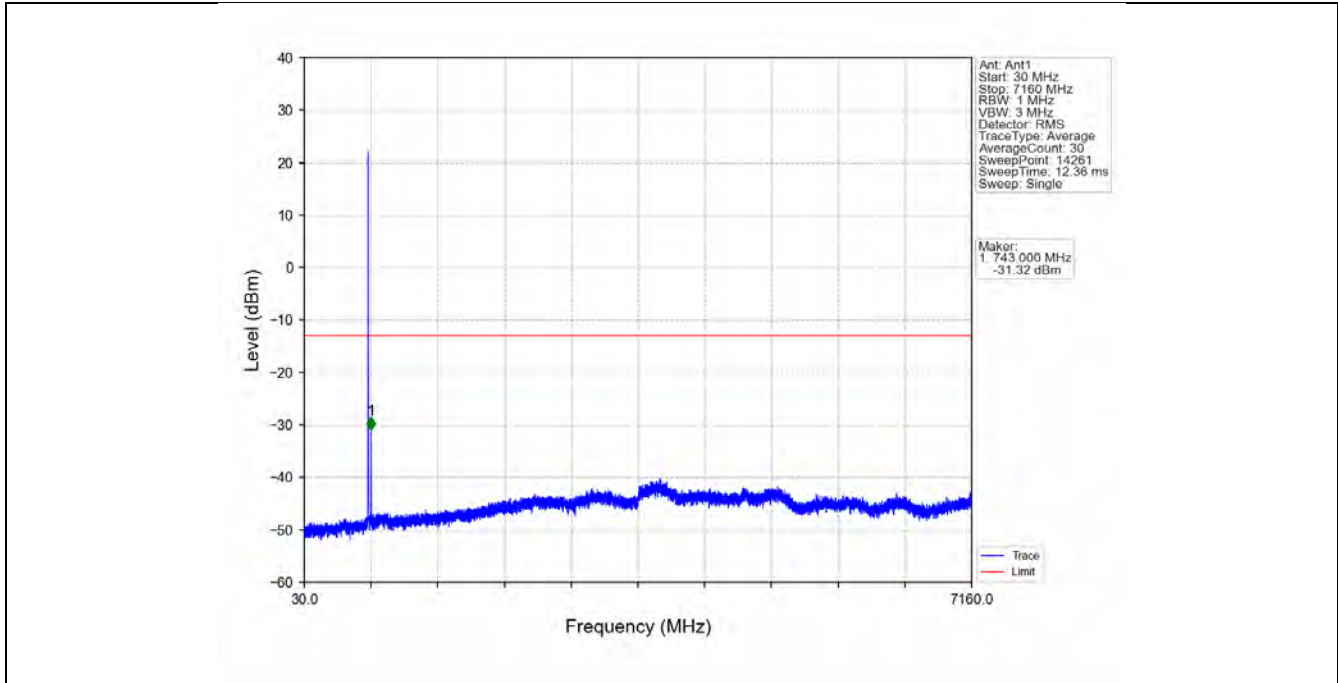


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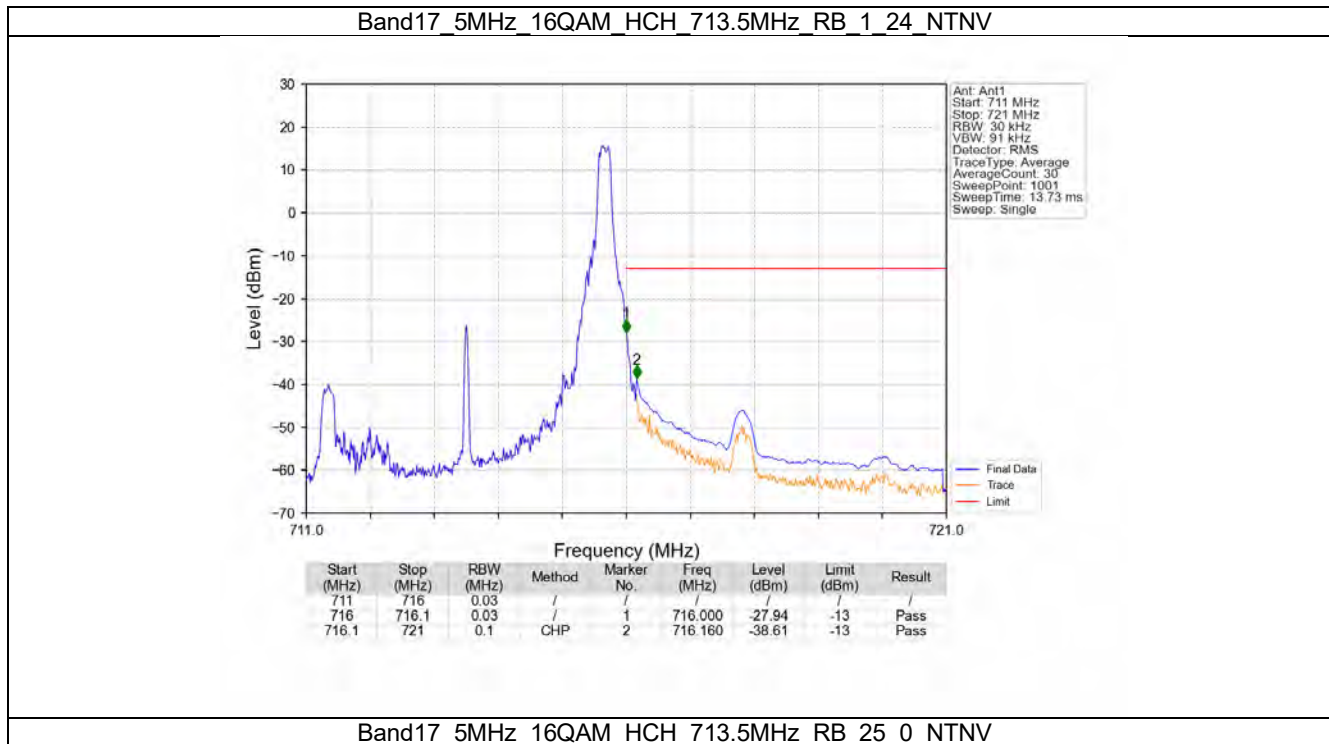
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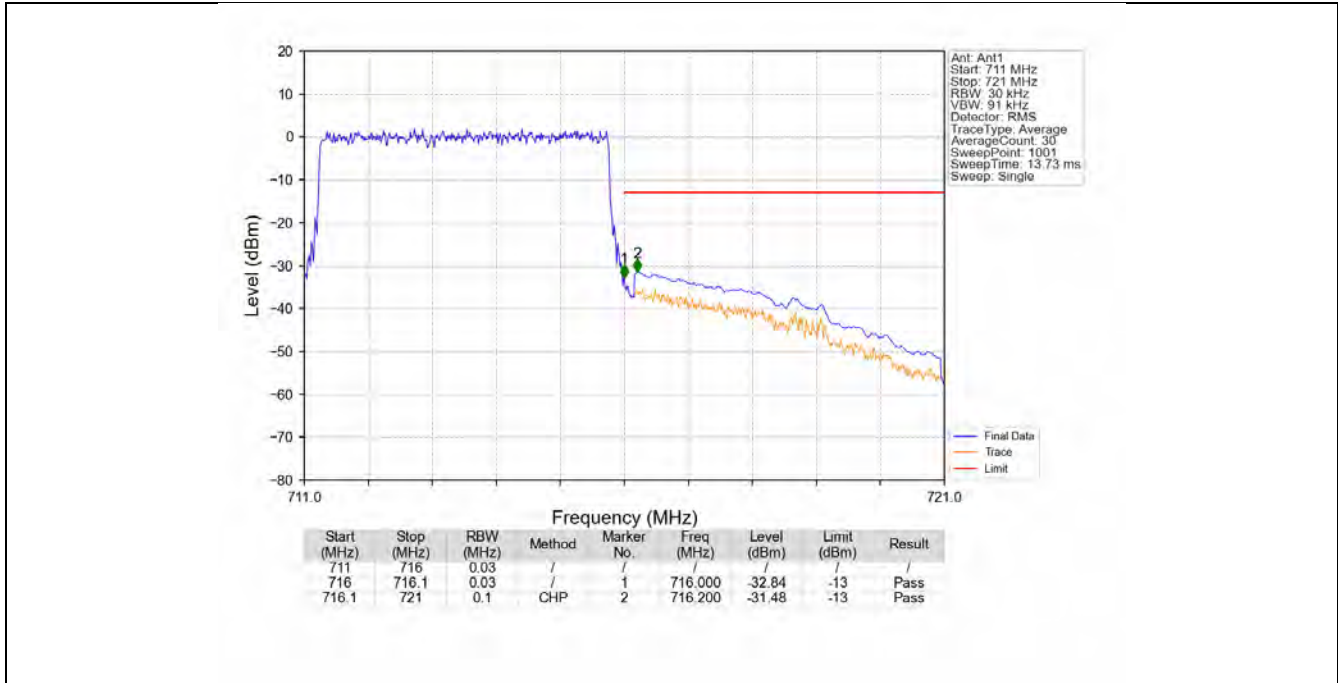


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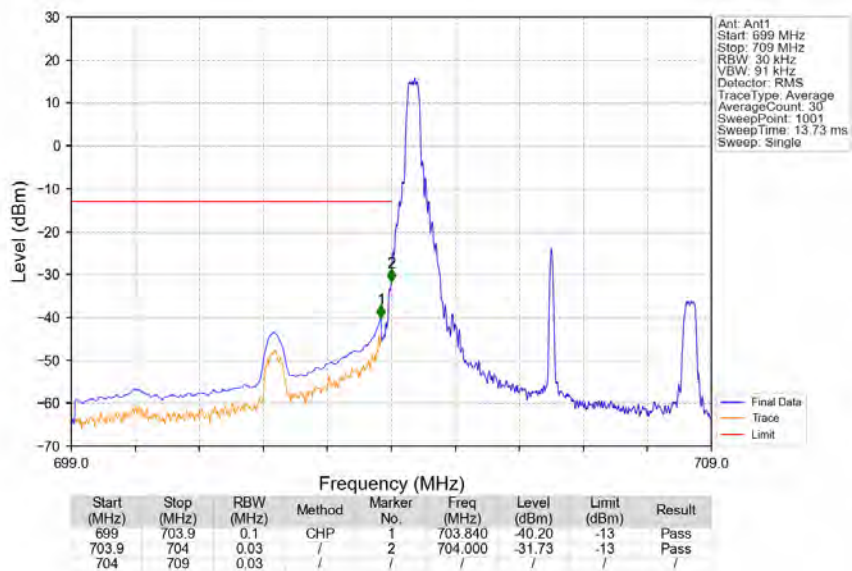
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Band17\_5MHz\_64QAM\_LCH\_706.5MHz\_RB\_1\_0\_NTNV



Band17\_5MHz\_64QAM\_LCH\_706.5MHz\_RB\_1\_0\_NTNV



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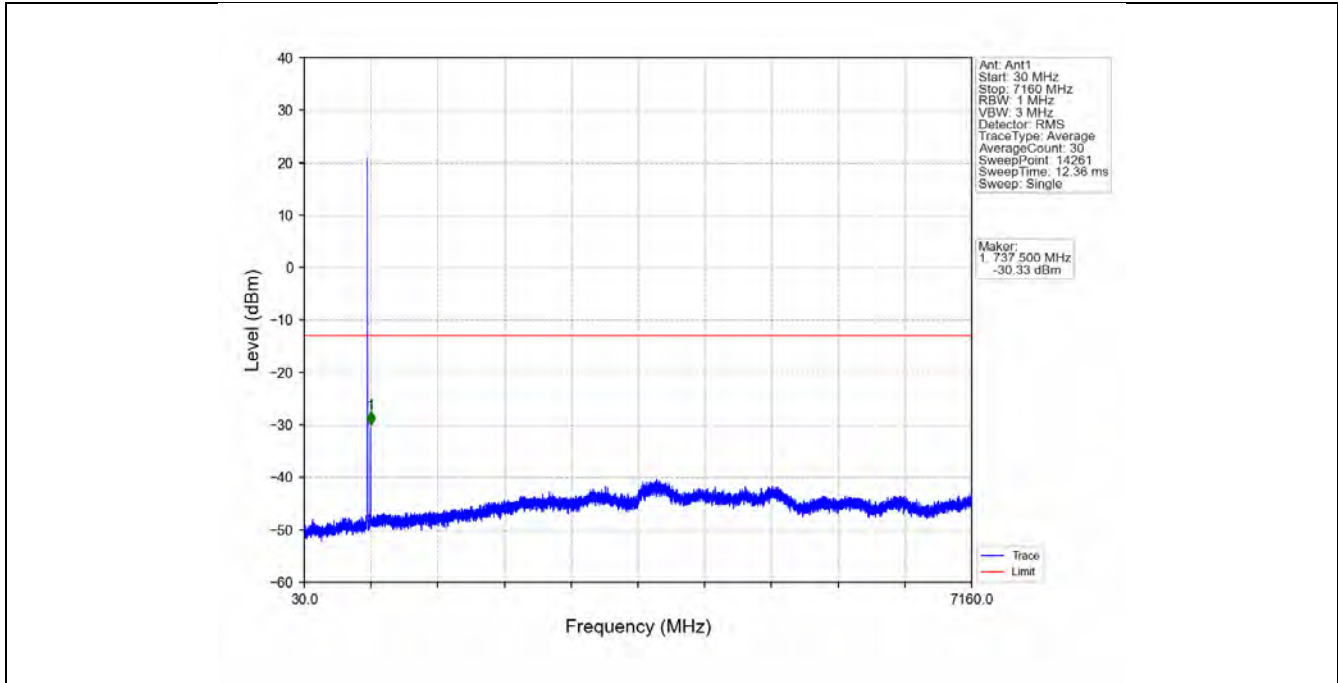


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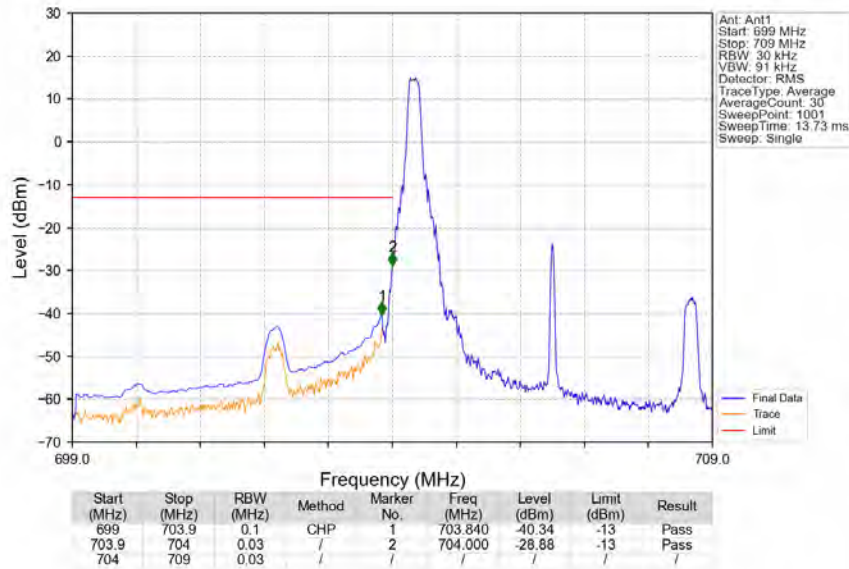
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Band17\_5MHz\_64QAM\_MCH\_710MHz\_RB\_1\_0\_NTNV



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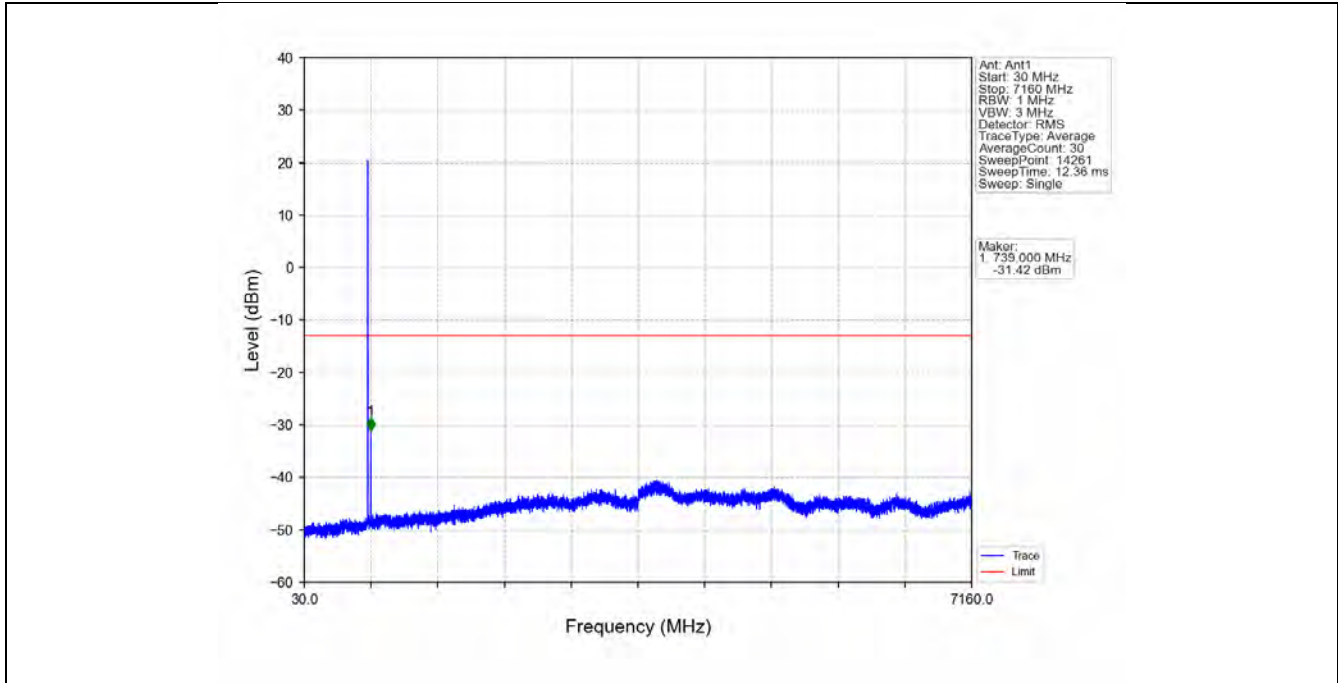


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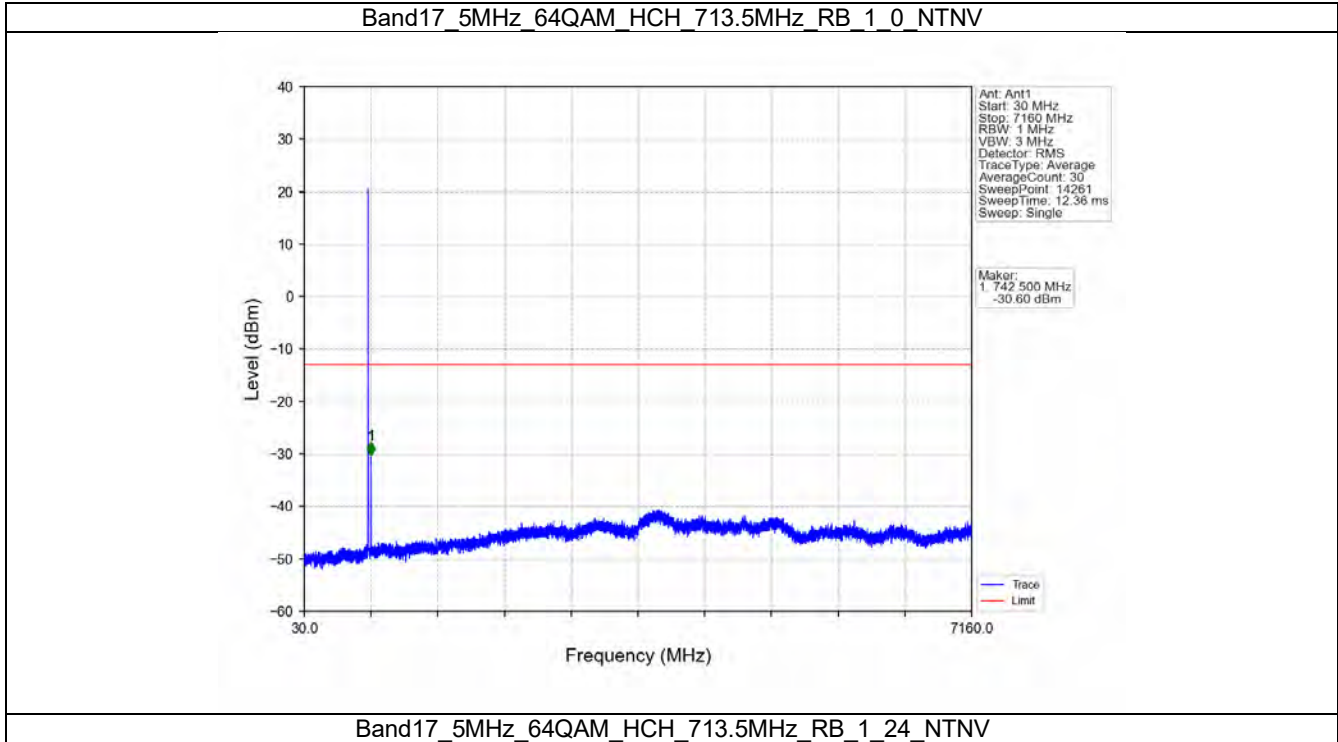


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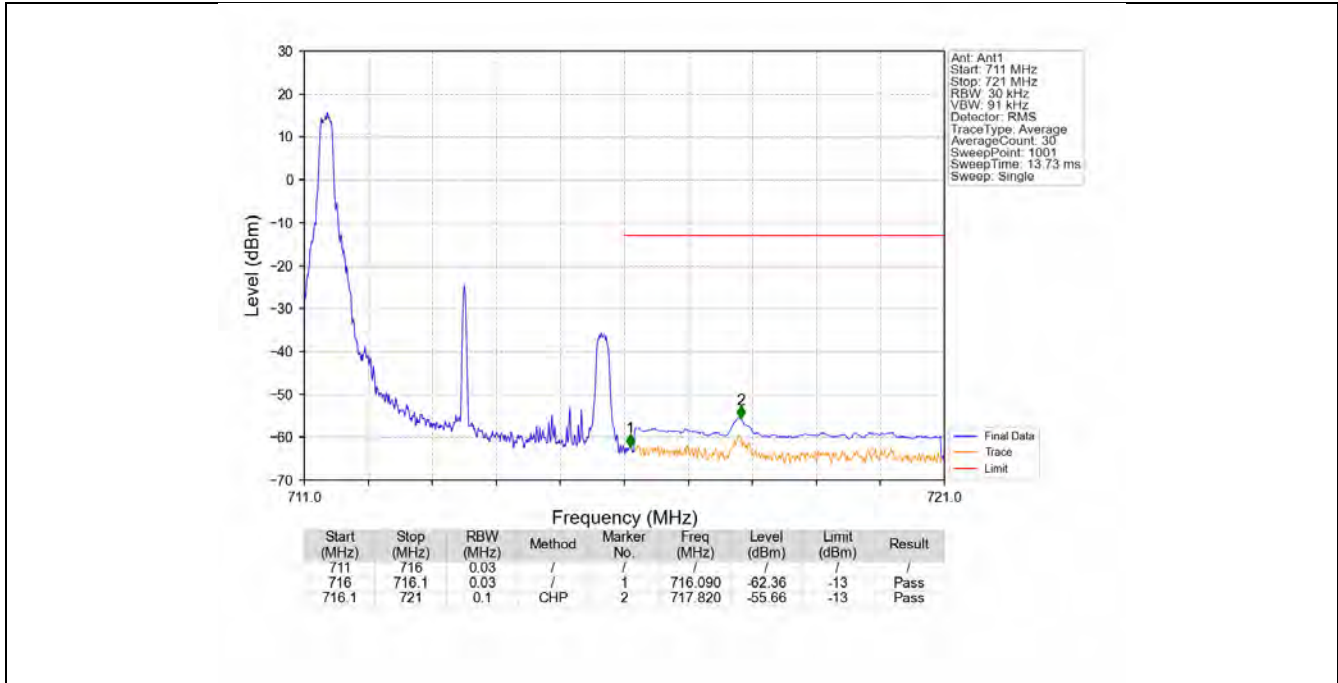


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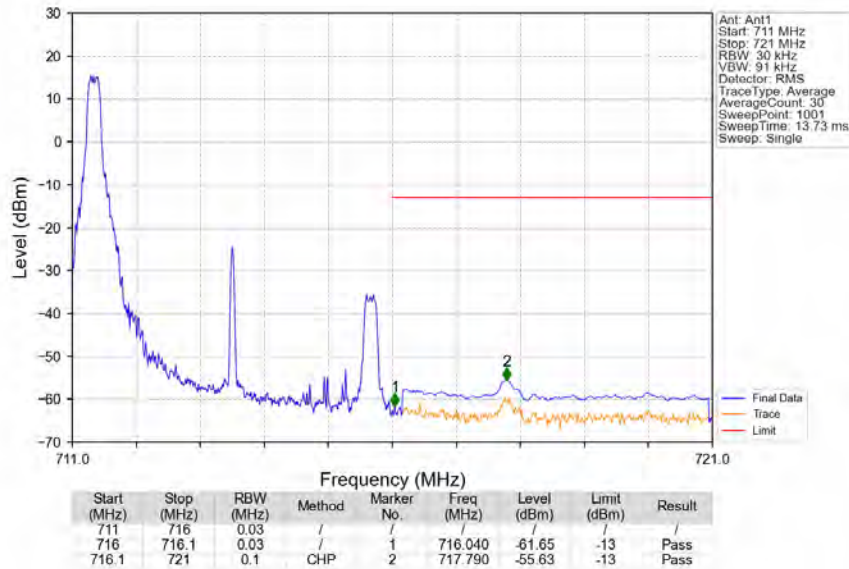
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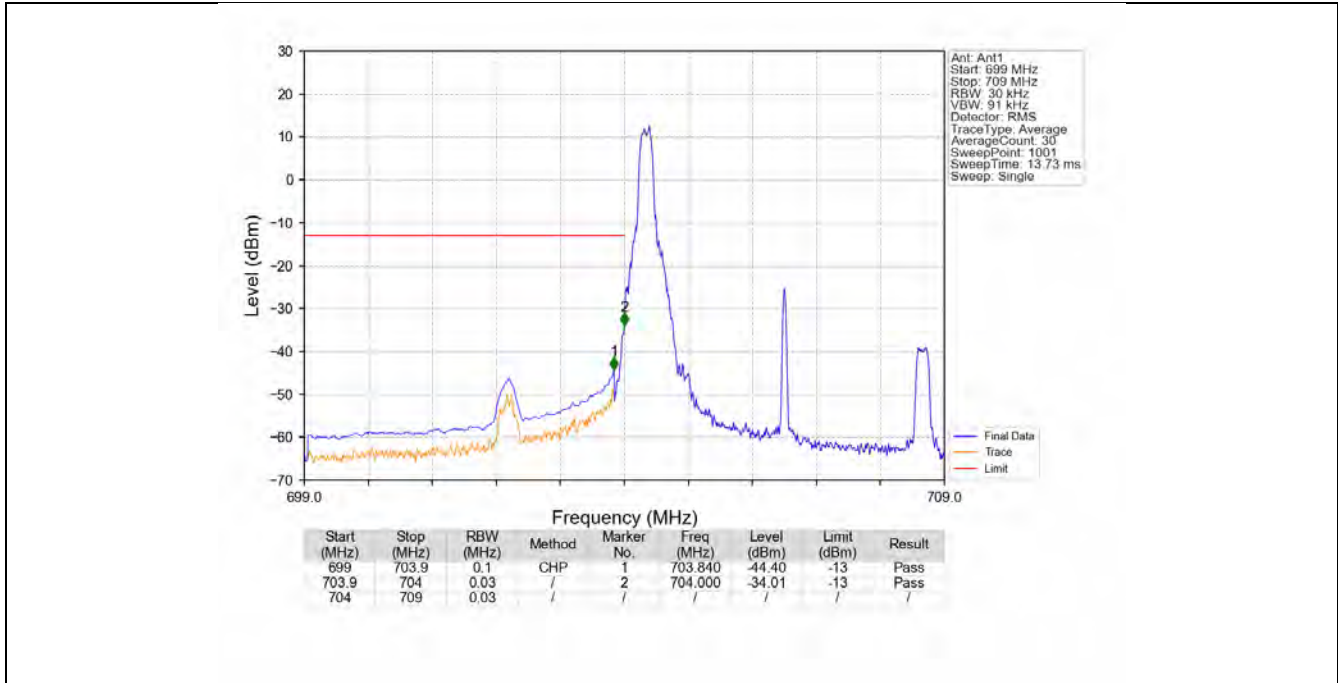


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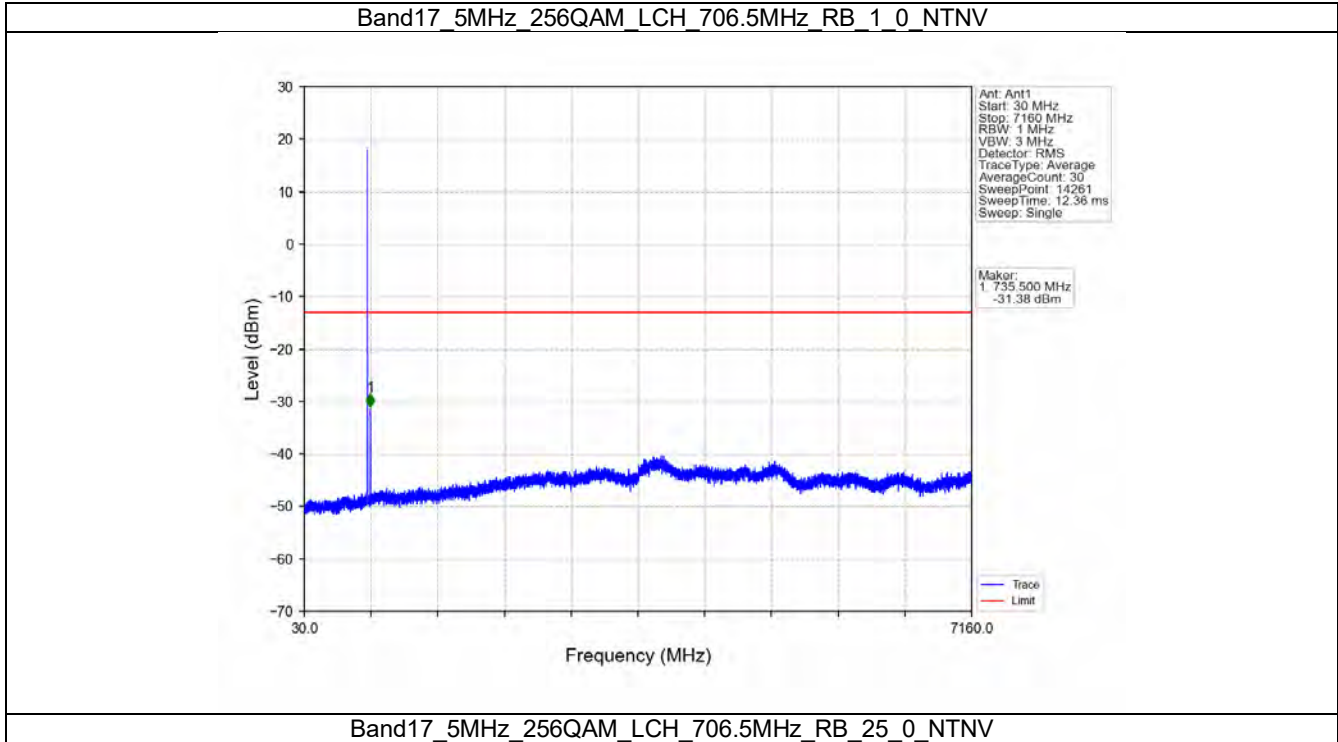


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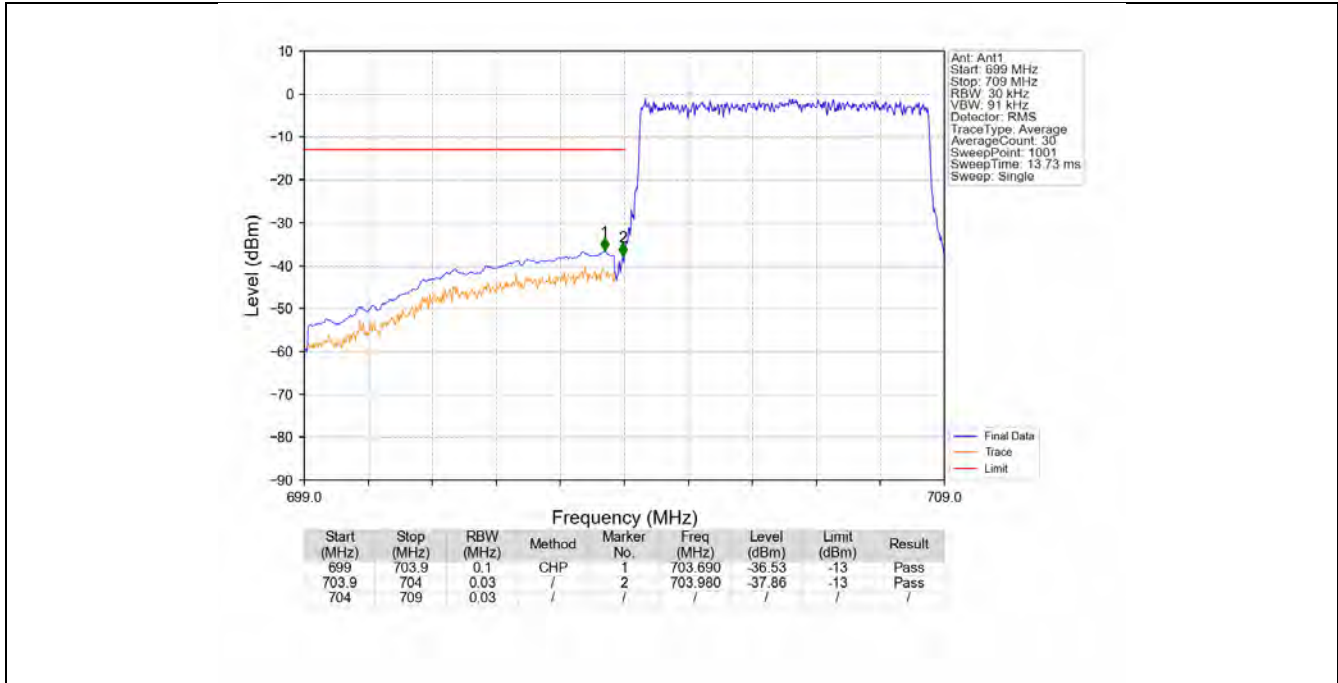


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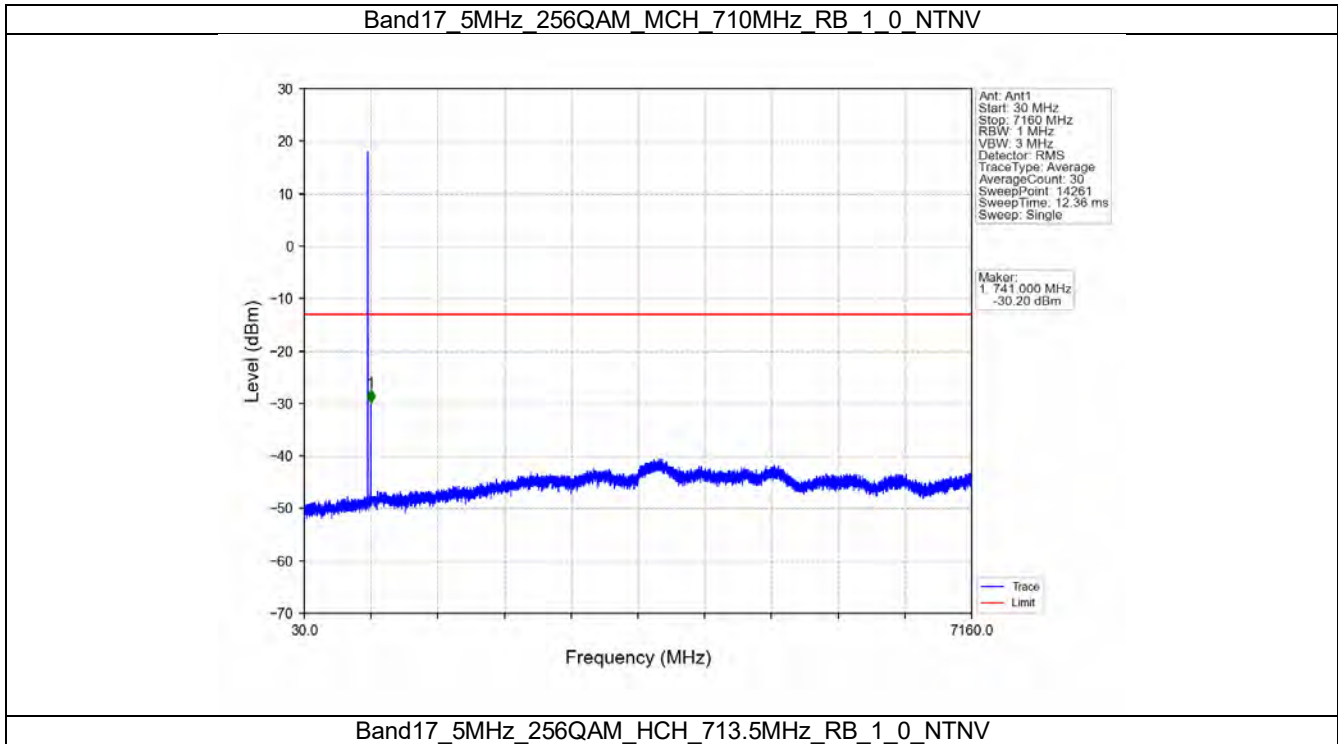


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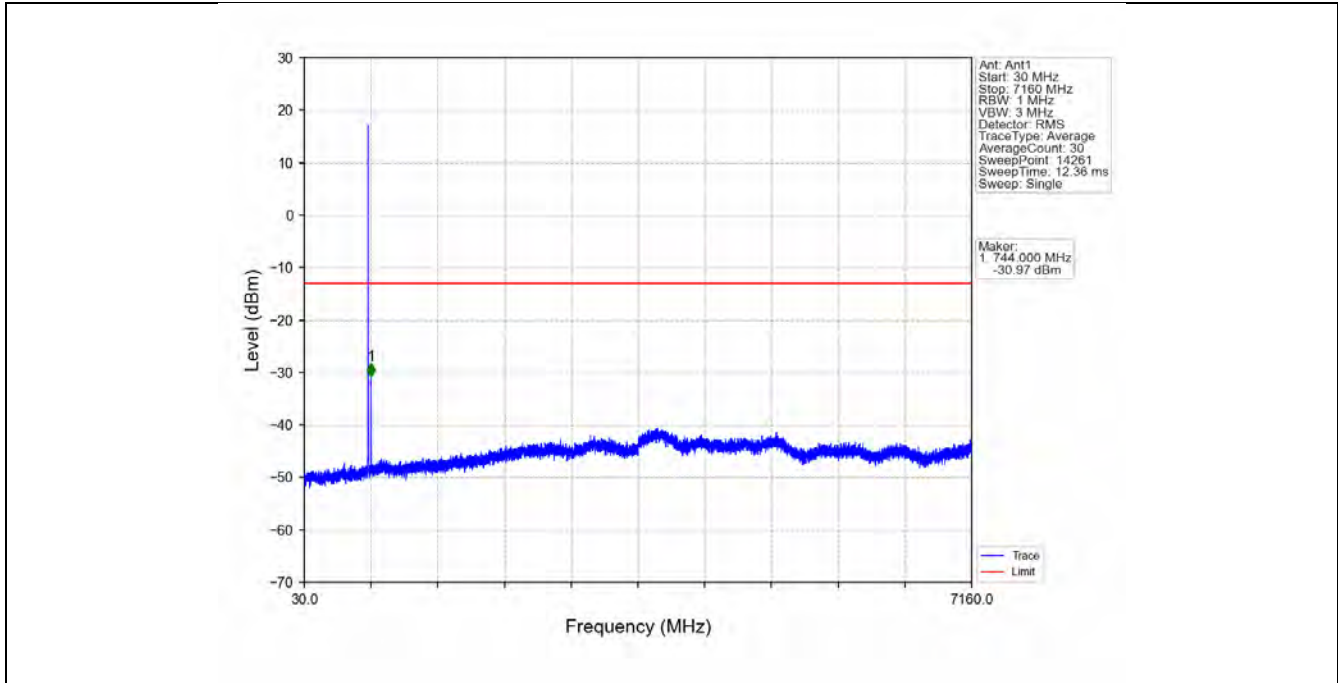


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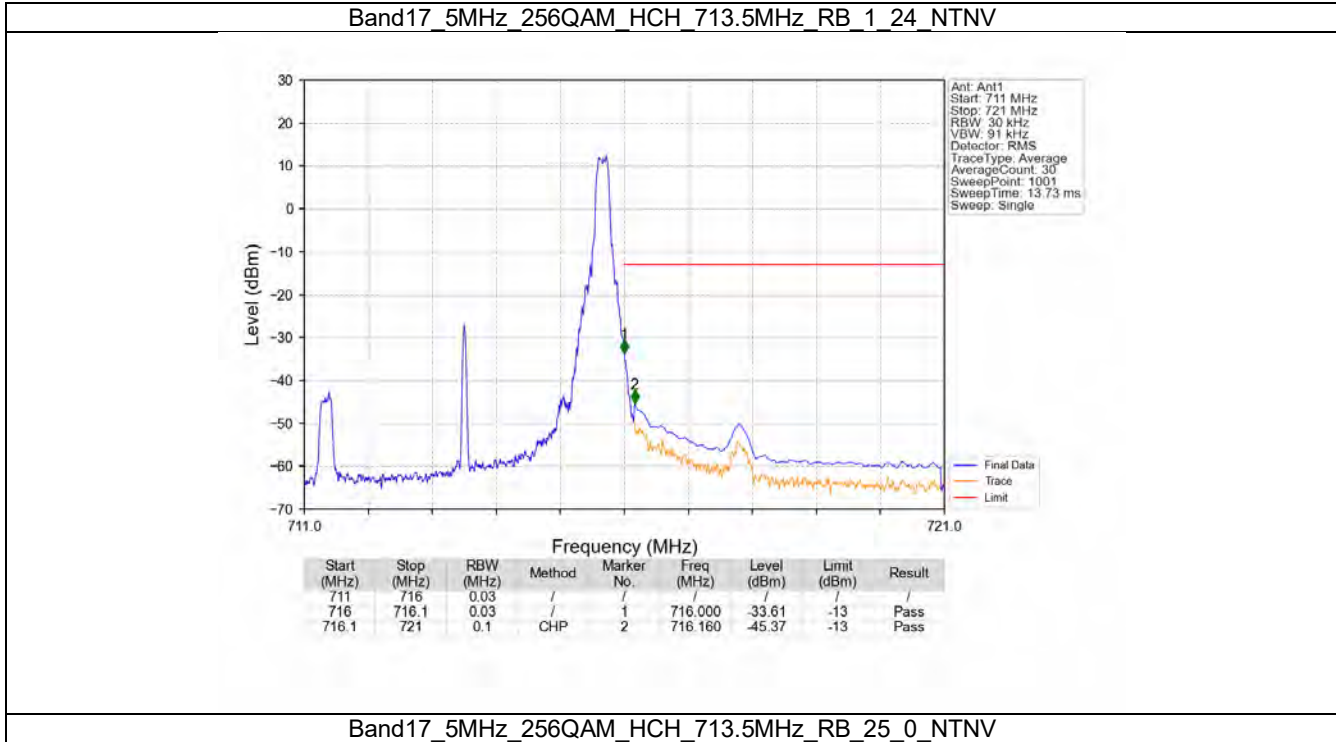


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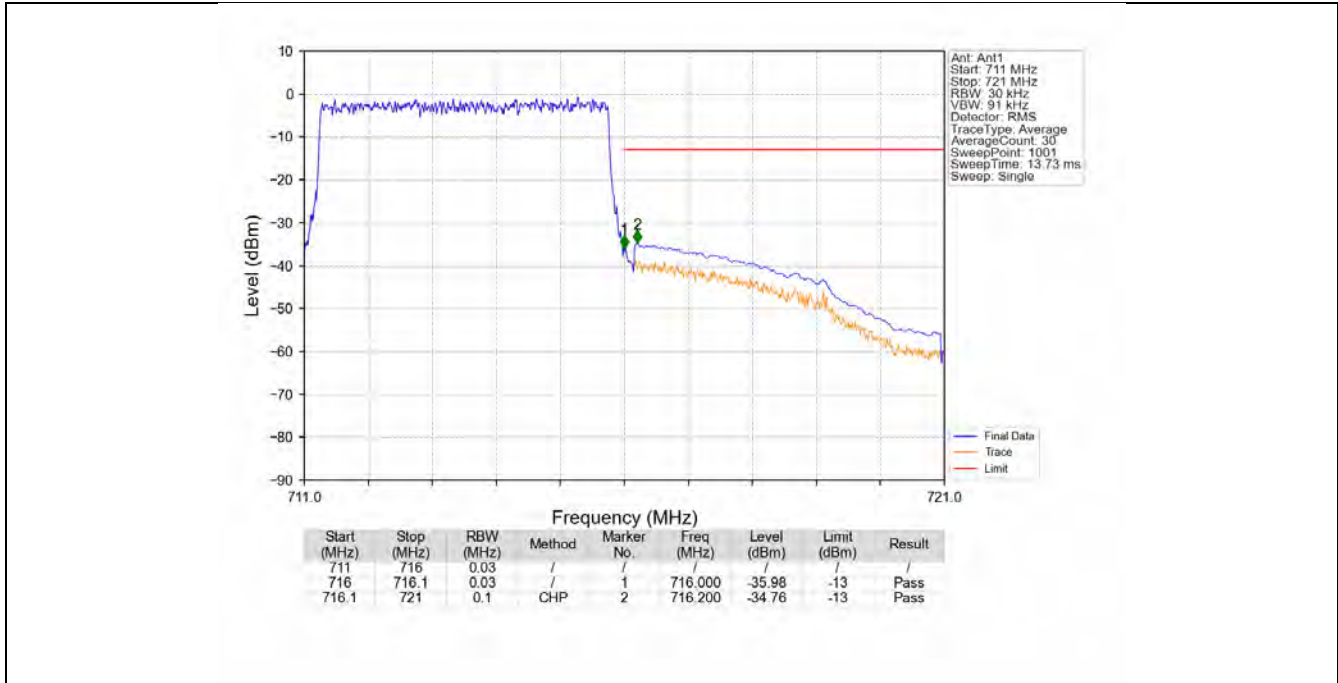


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## 5.2 B17\_10MHz

### 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
256QAM	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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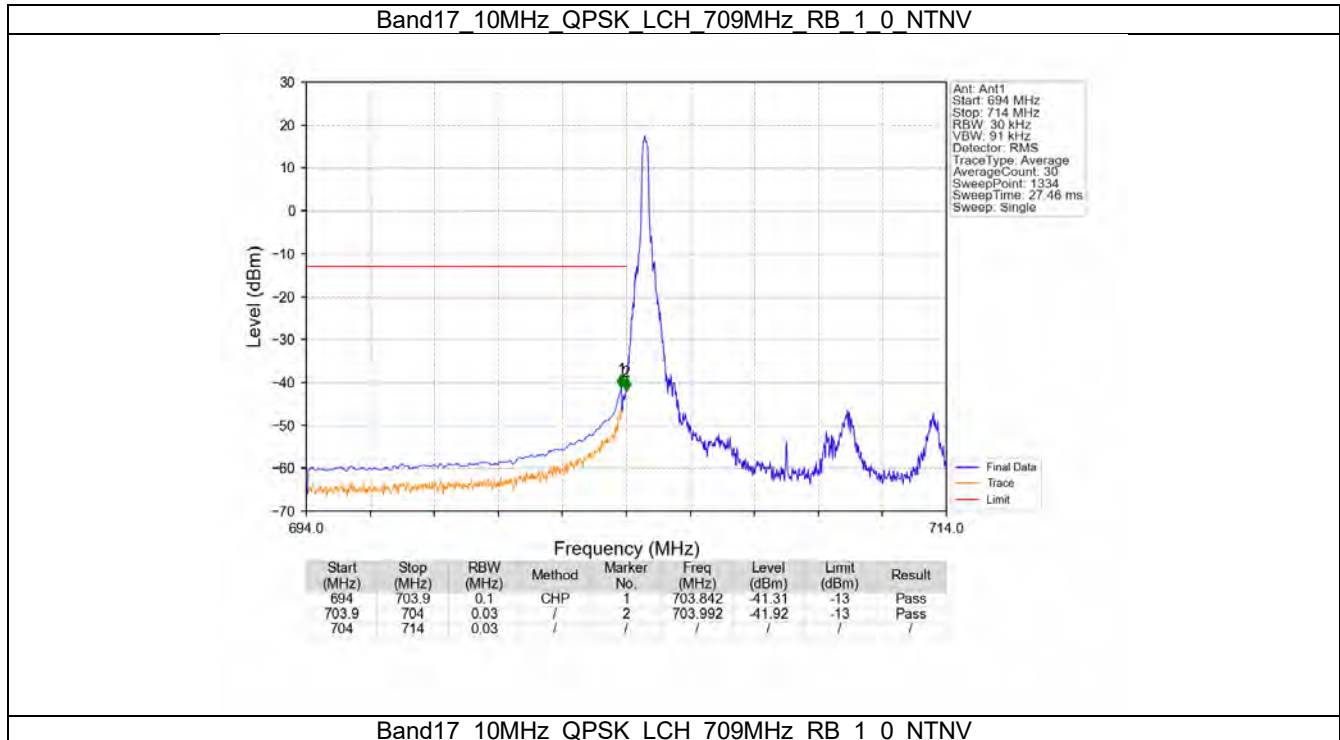
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5.2.2 Test Graph



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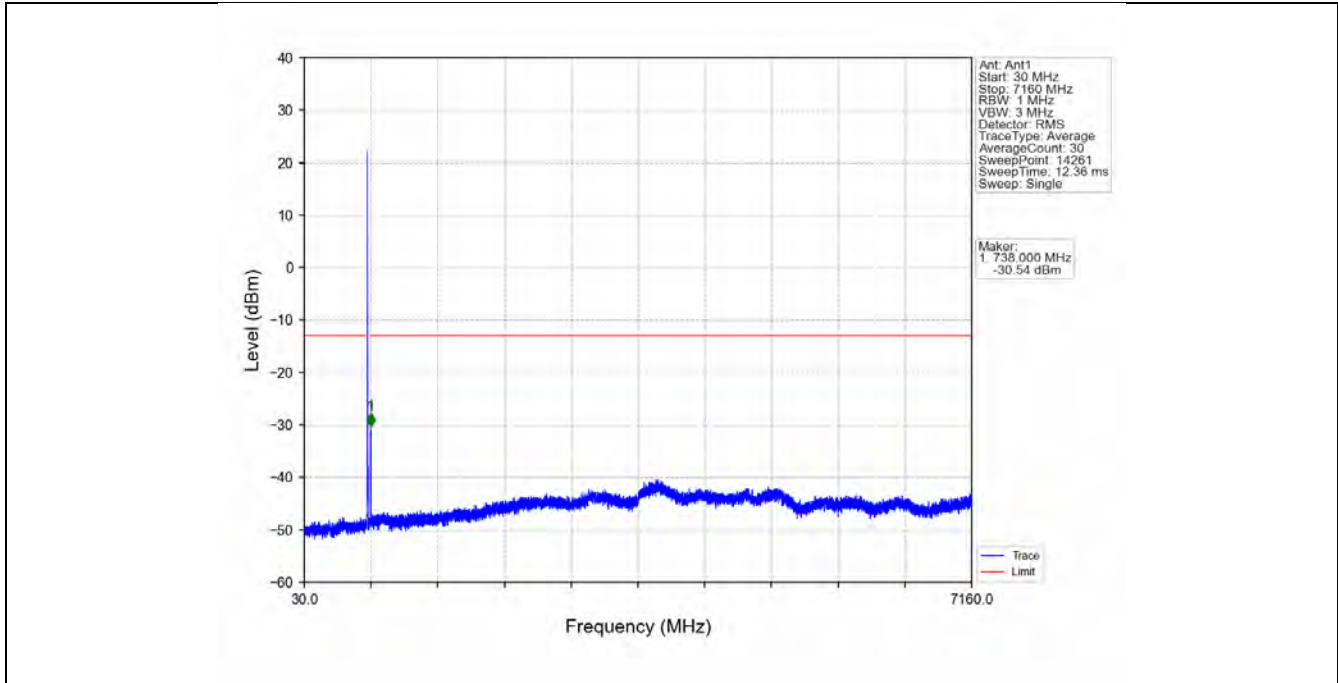


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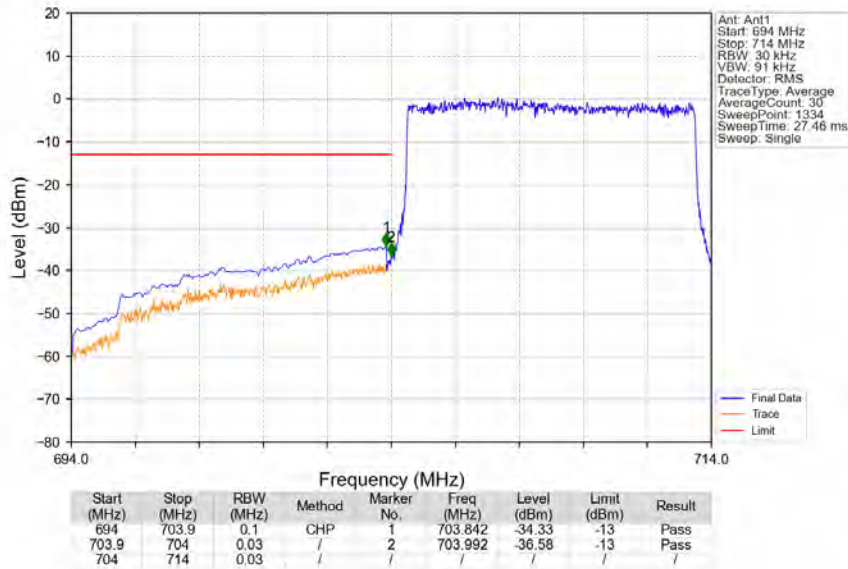
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Band17\_10MHz\_QPSK\_LCH\_709MHz\_RB\_50\_0\_NTNV



Band17\_10MHz\_QPSK\_MCH\_710MHz\_RB\_1\_0\_NTNV



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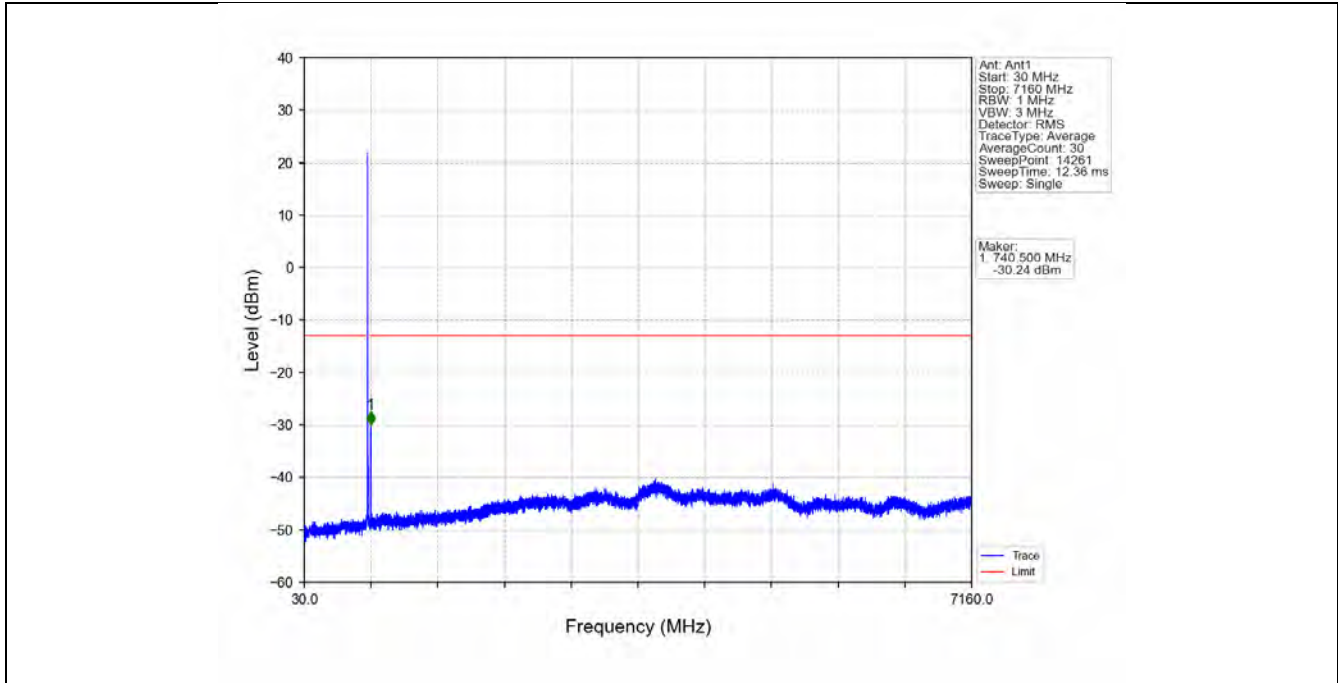


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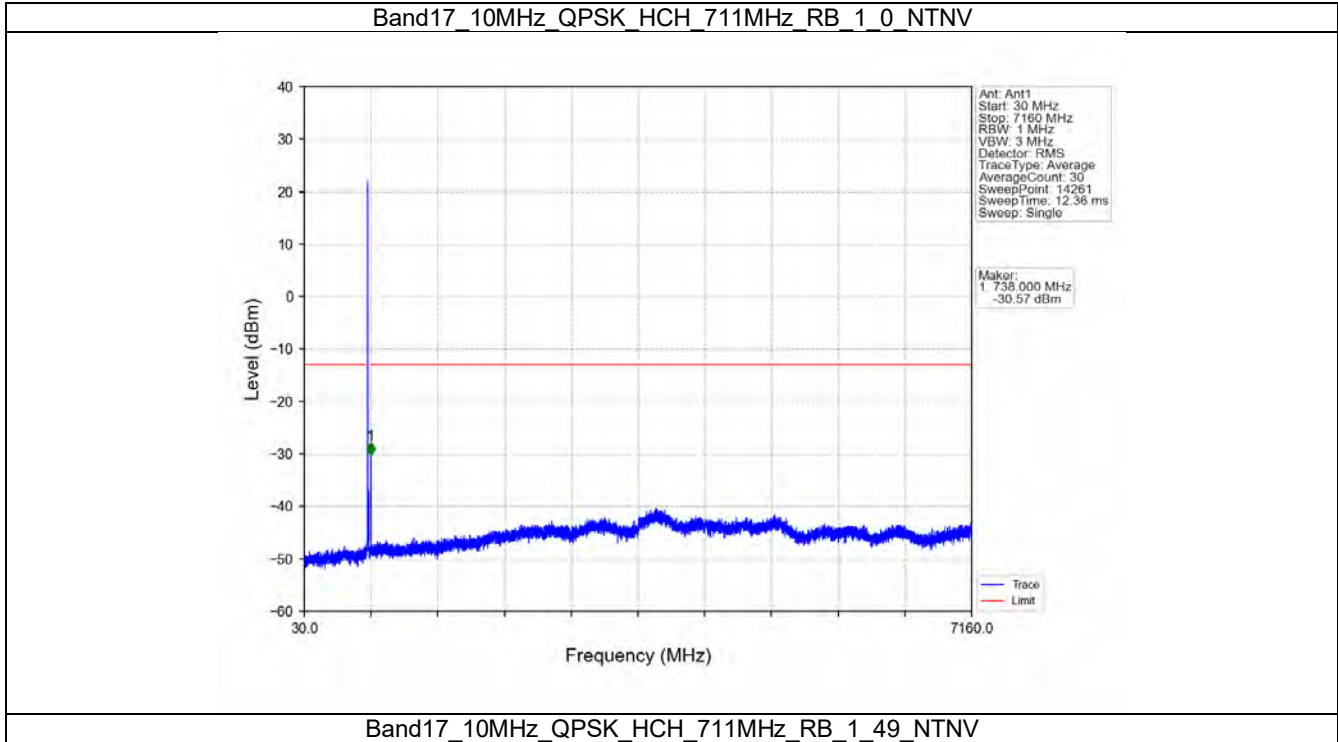


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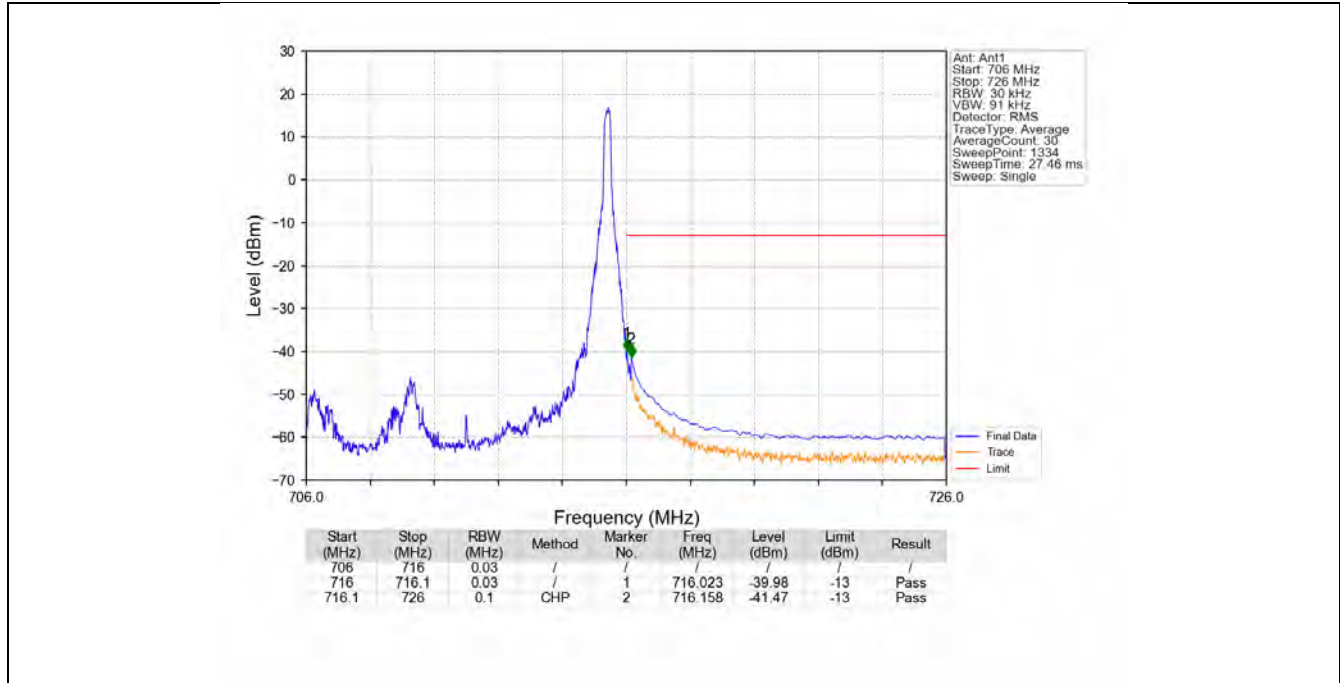


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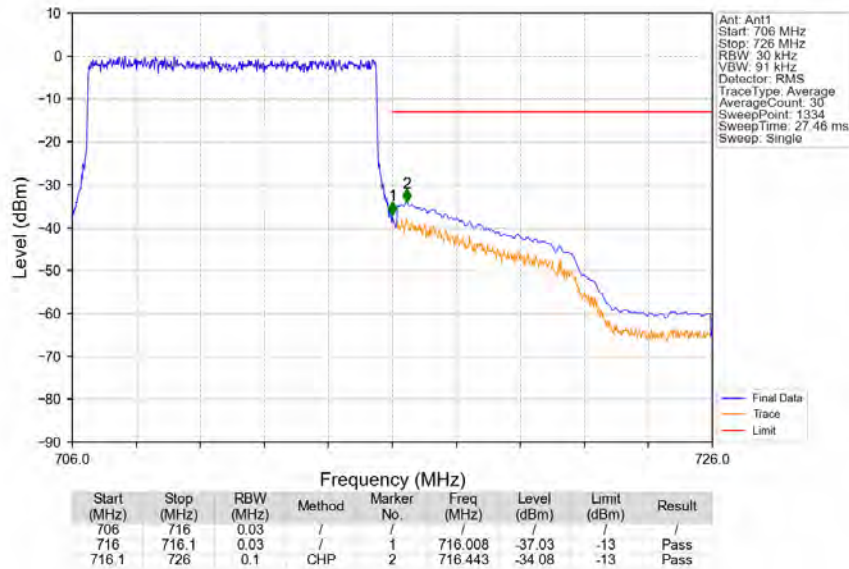
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Band17 10MHz QPSK HCH 711MHz RB 50\_0 NTV



Band17 10MHz 16QAM LCH 709MHz RB 1\_0 NTV



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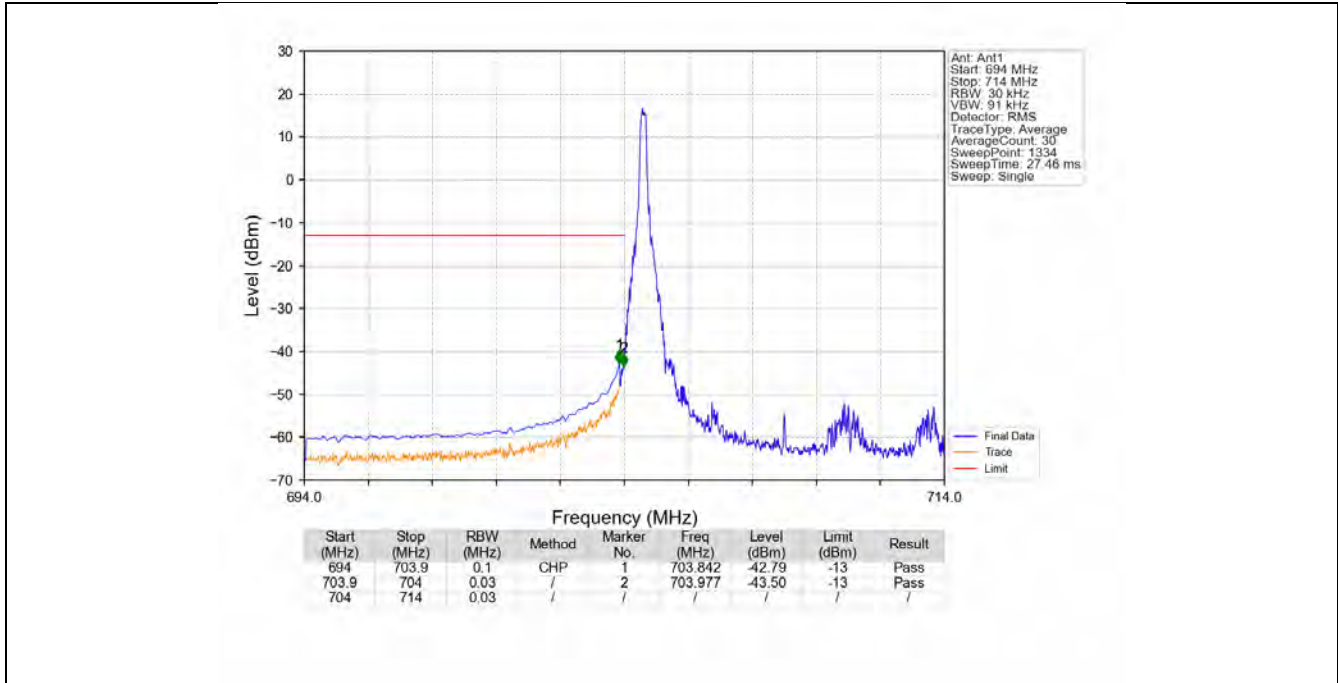


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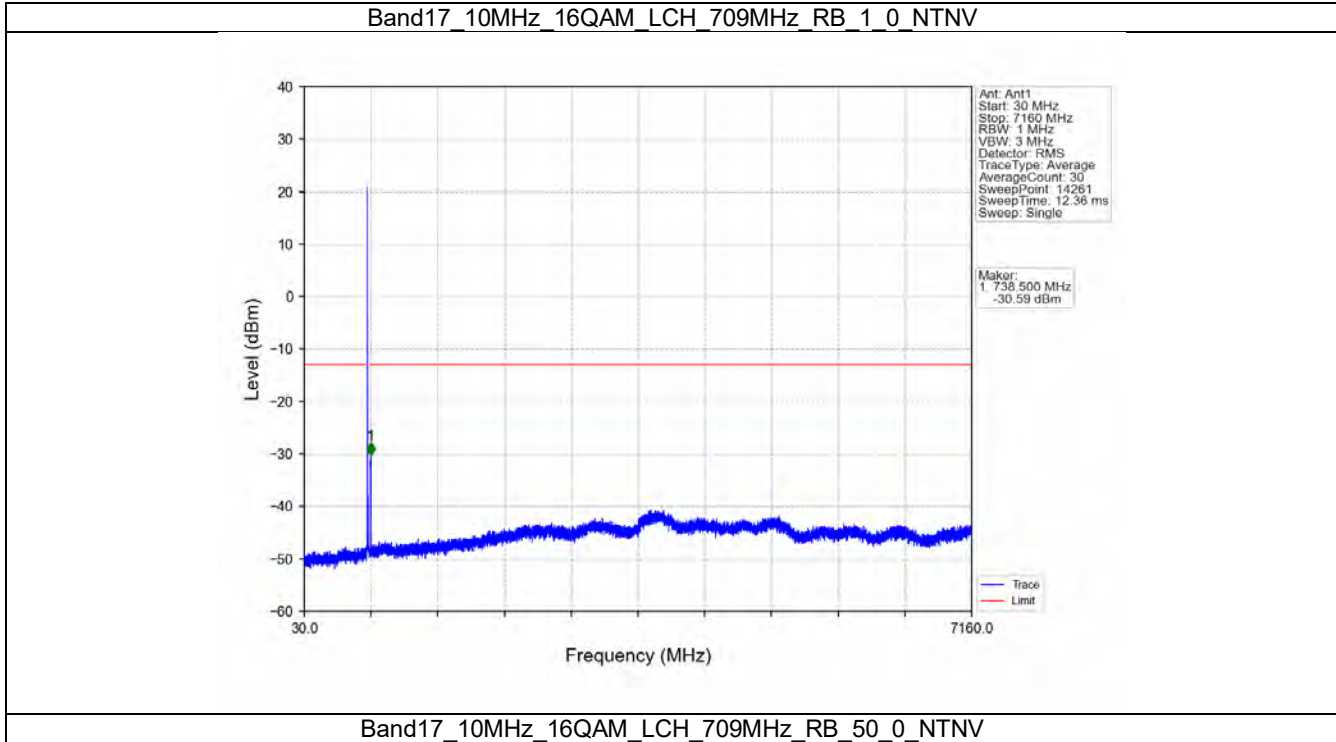


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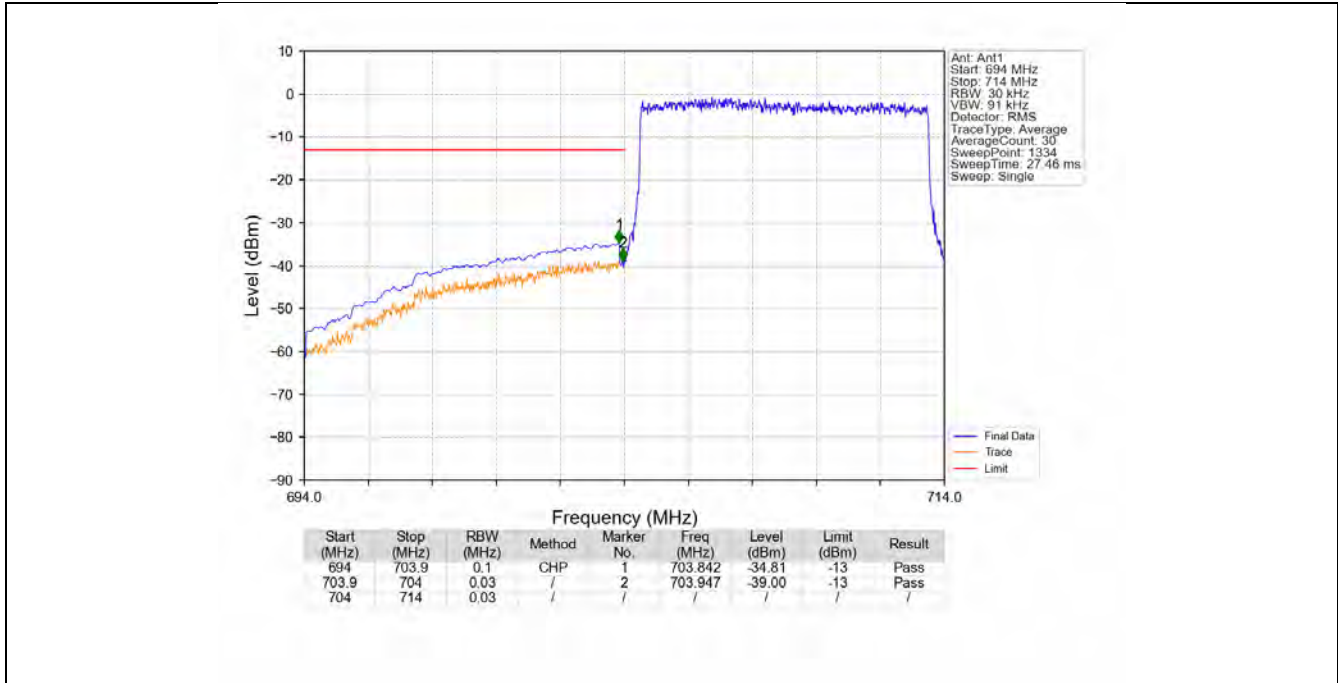


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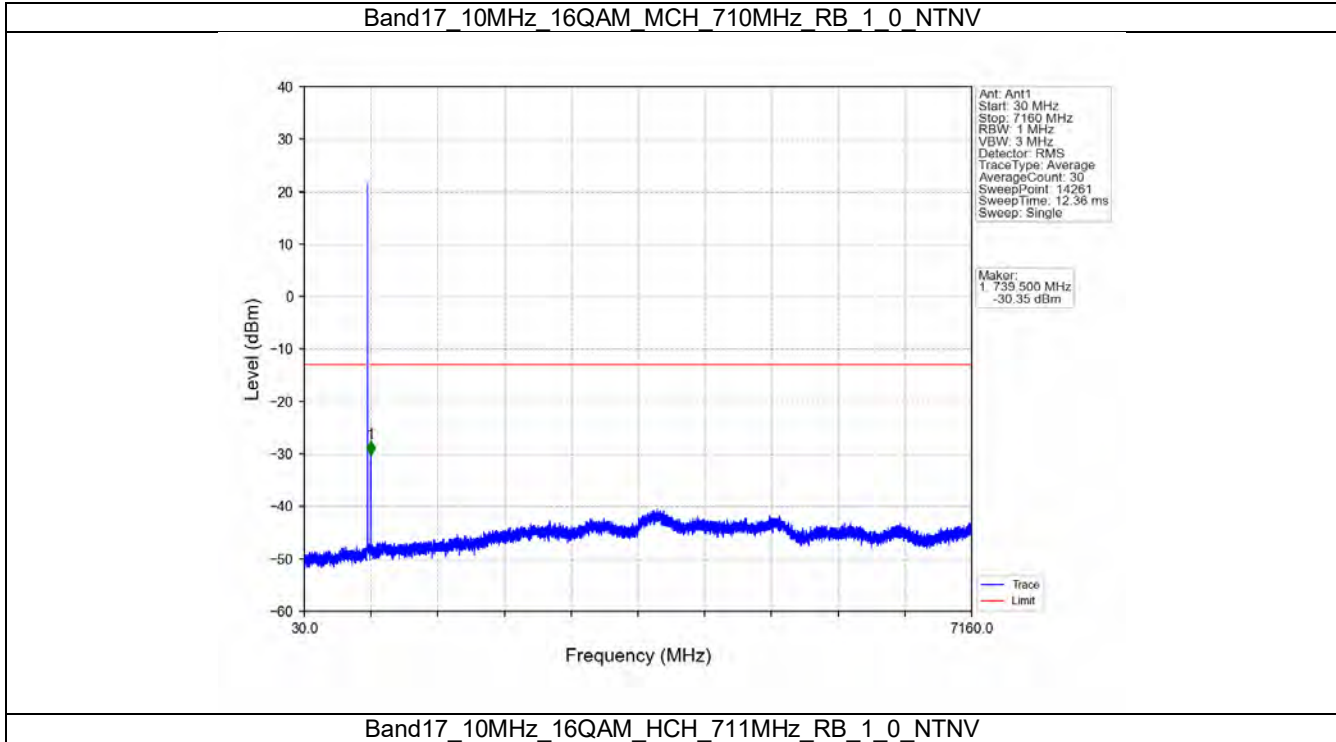


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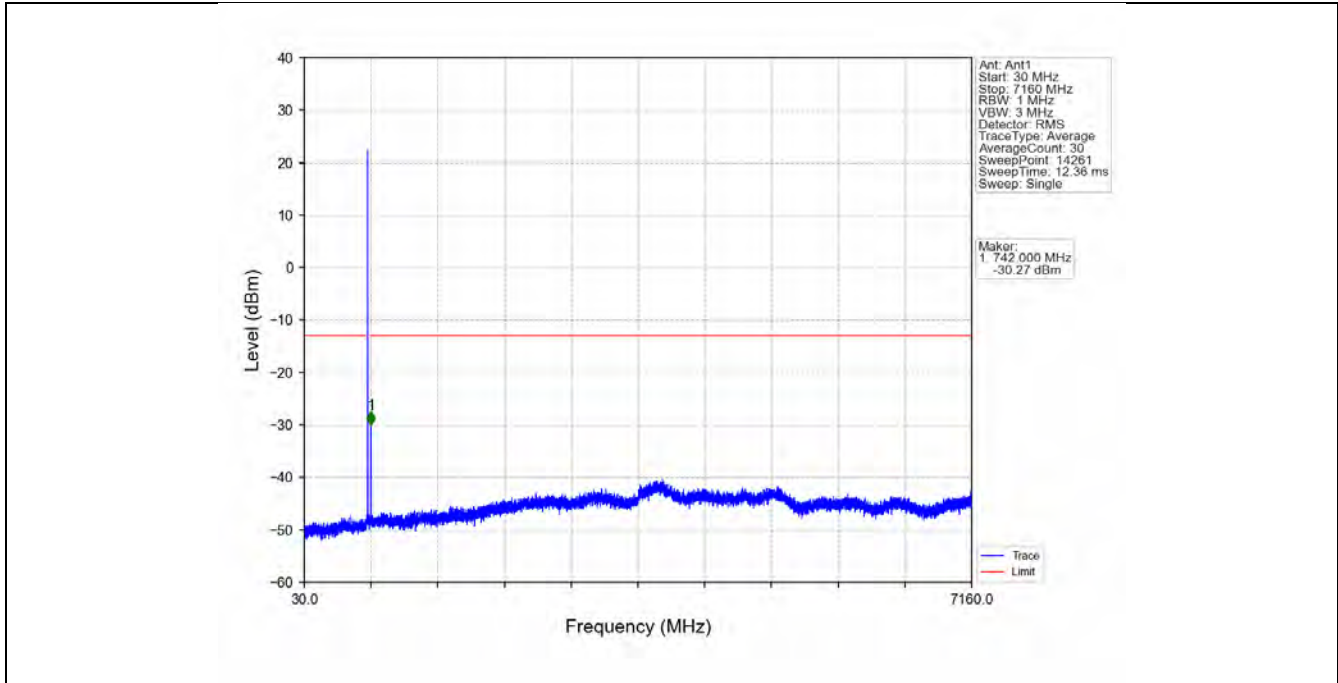


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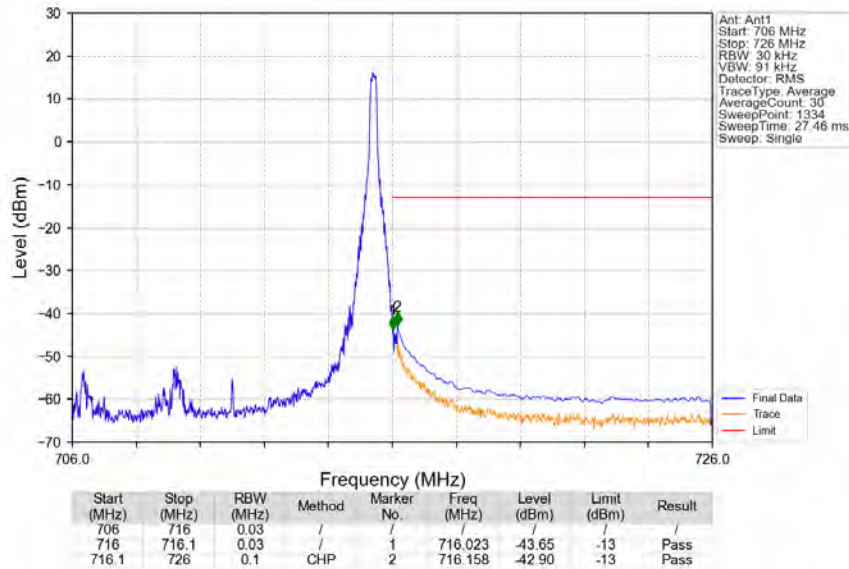
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Band17\_10MHz\_16QAM\_HCH\_711MHz\_RB\_1\_49\_NTNV



Band17\_10MHz\_16QAM\_HCH\_711MHz\_RB\_50\_0\_NTNV



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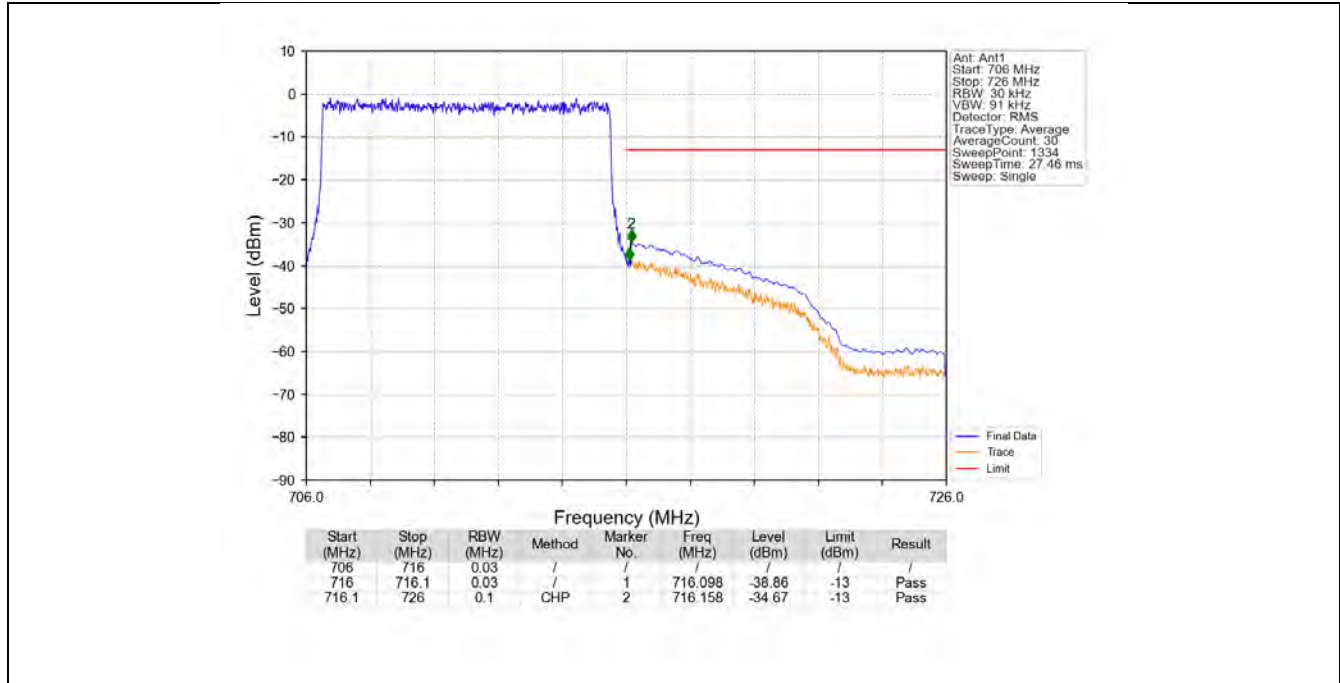


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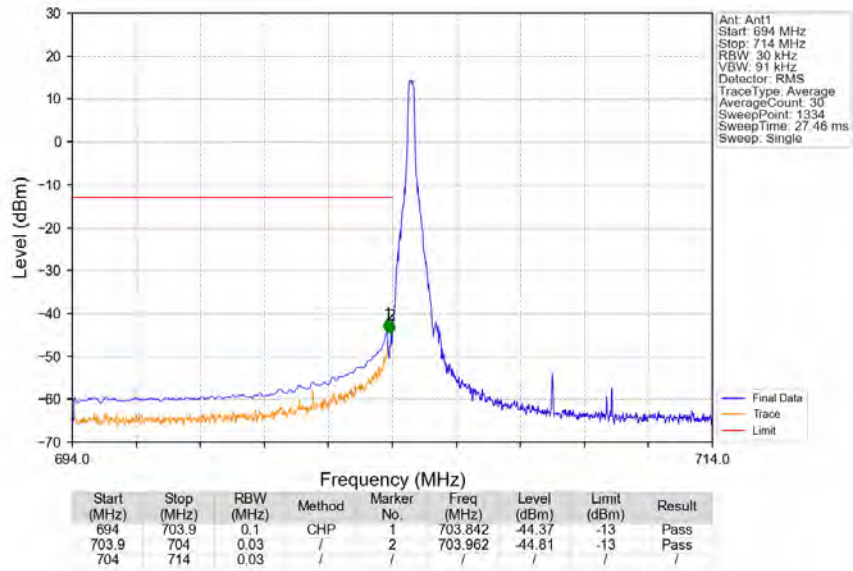
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Band17\_10MHz\_64QAM\_LCH\_709MHz\_RB\_1\_0\_NTNV



Band17\_10MHz\_64QAM\_LCH\_709MHz\_RB\_1\_0\_NTNV



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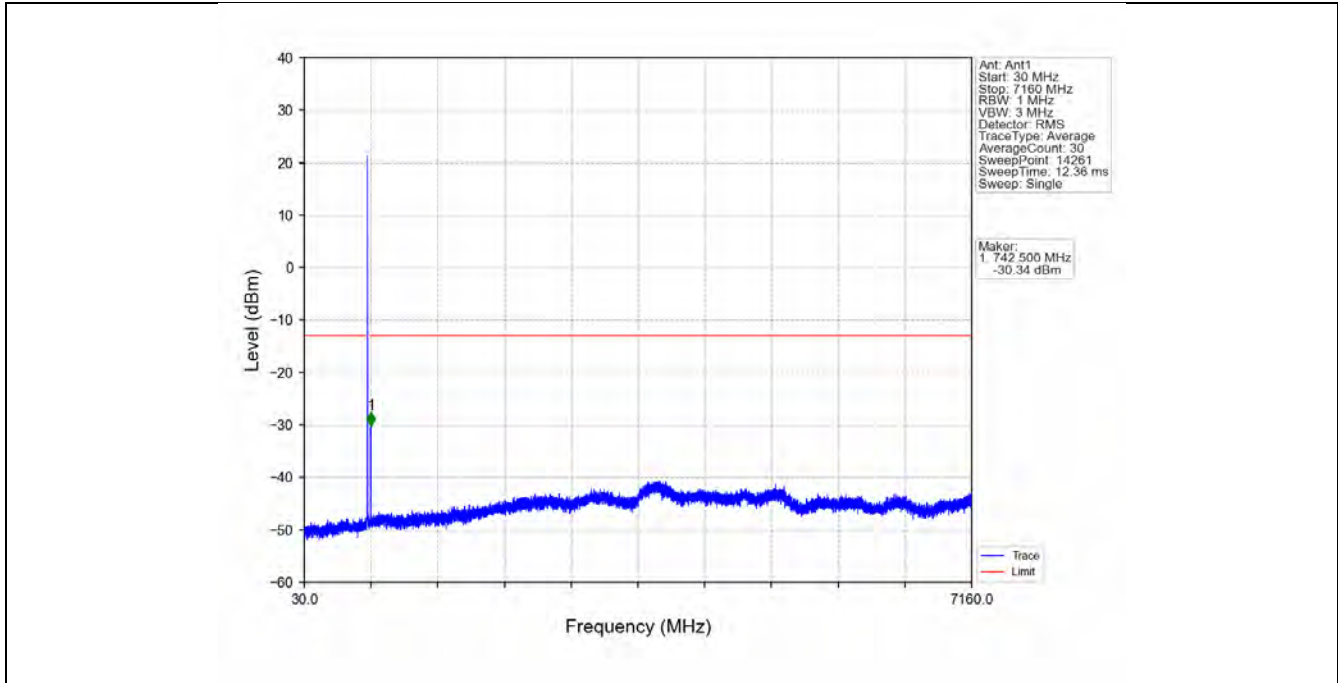


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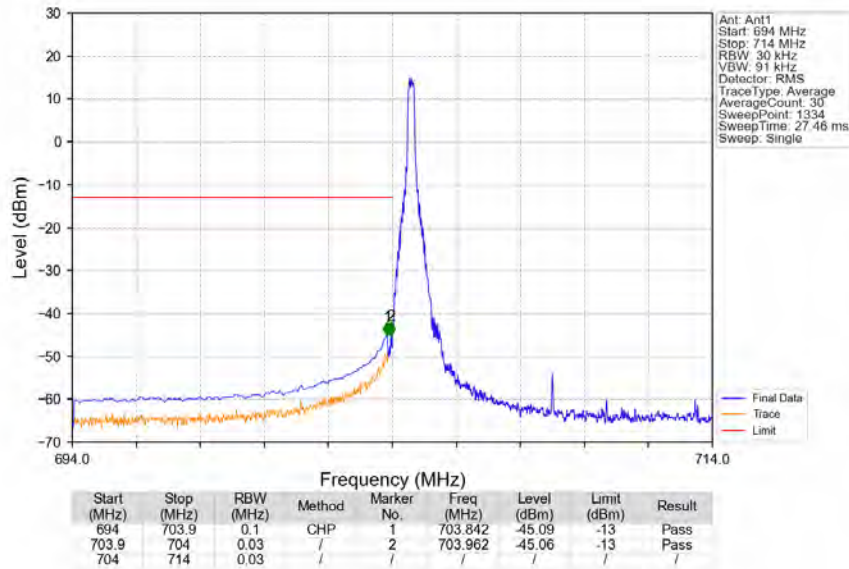
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Band17\_10MHz\_64QAM\_MCH\_710MHz\_RB\_1\_0\_NTNV



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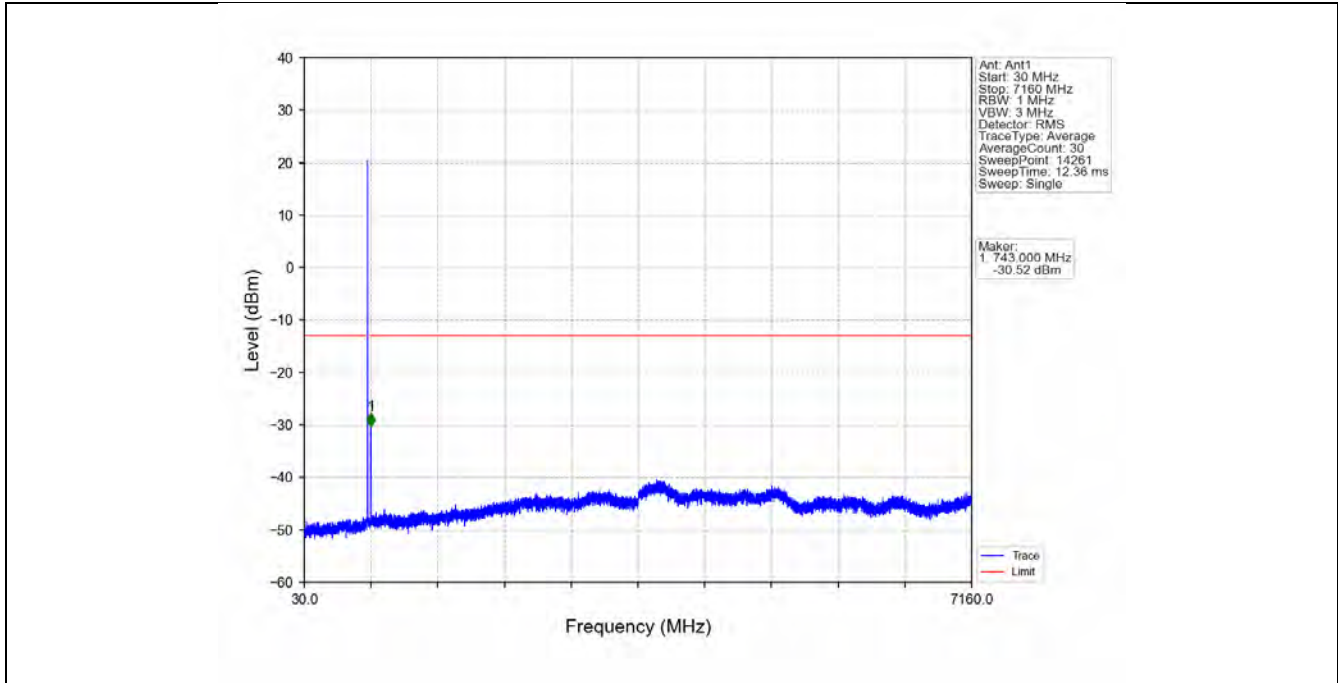


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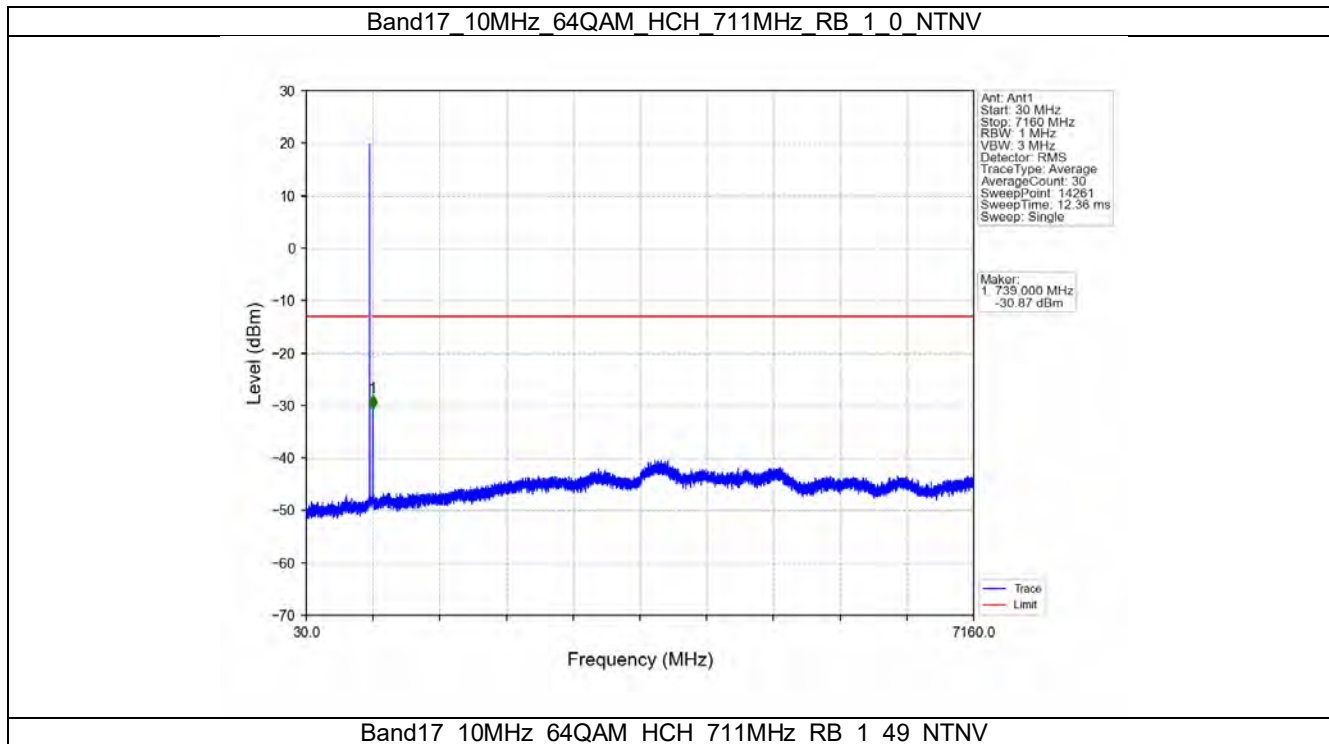
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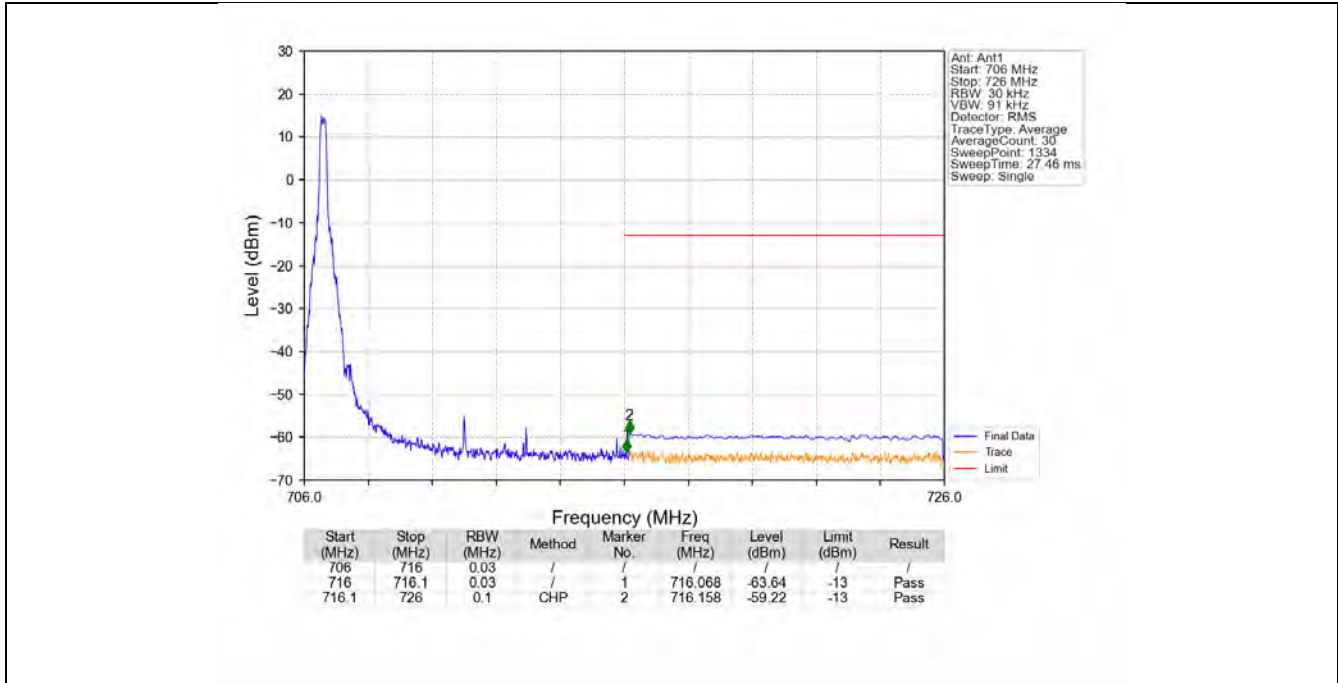


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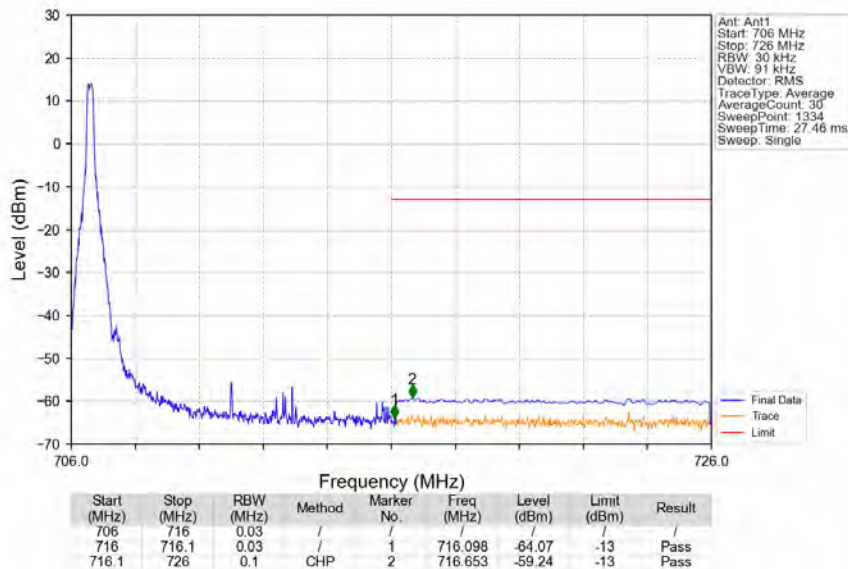
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Band17\_10MHz\_256QAM\_LCH\_709MHz\_RB\_1\_0\_NTV



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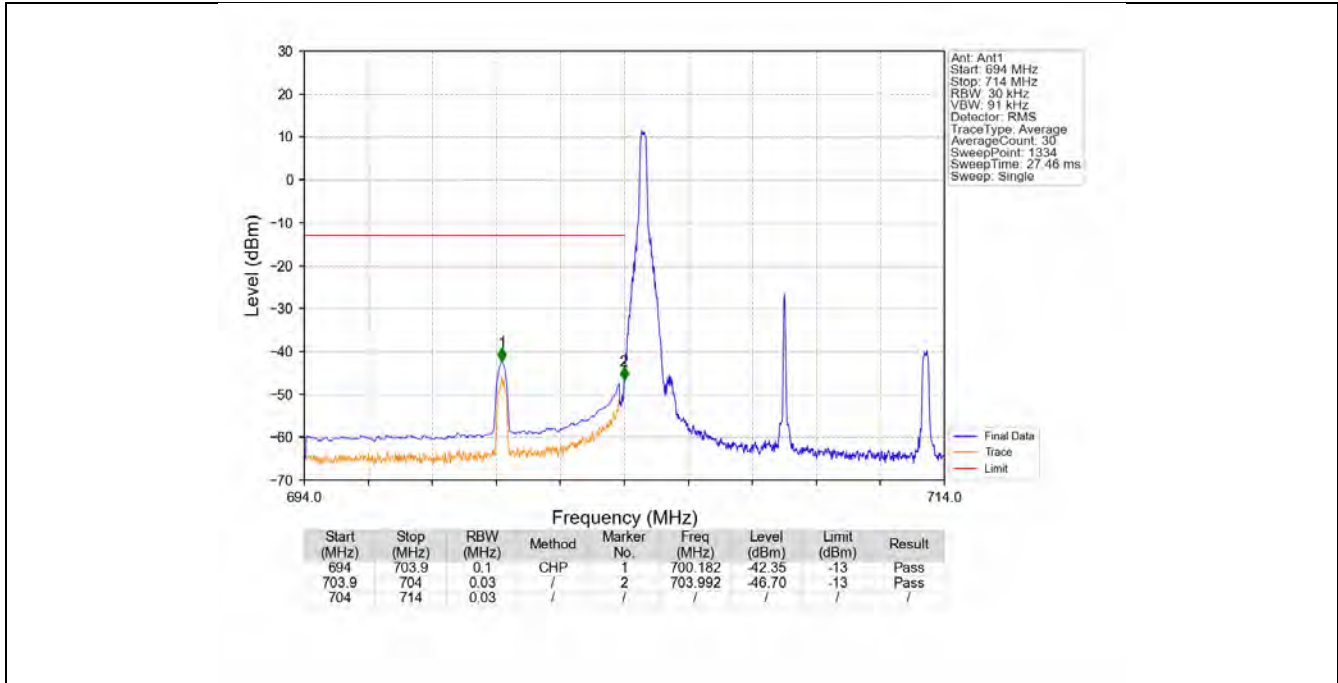


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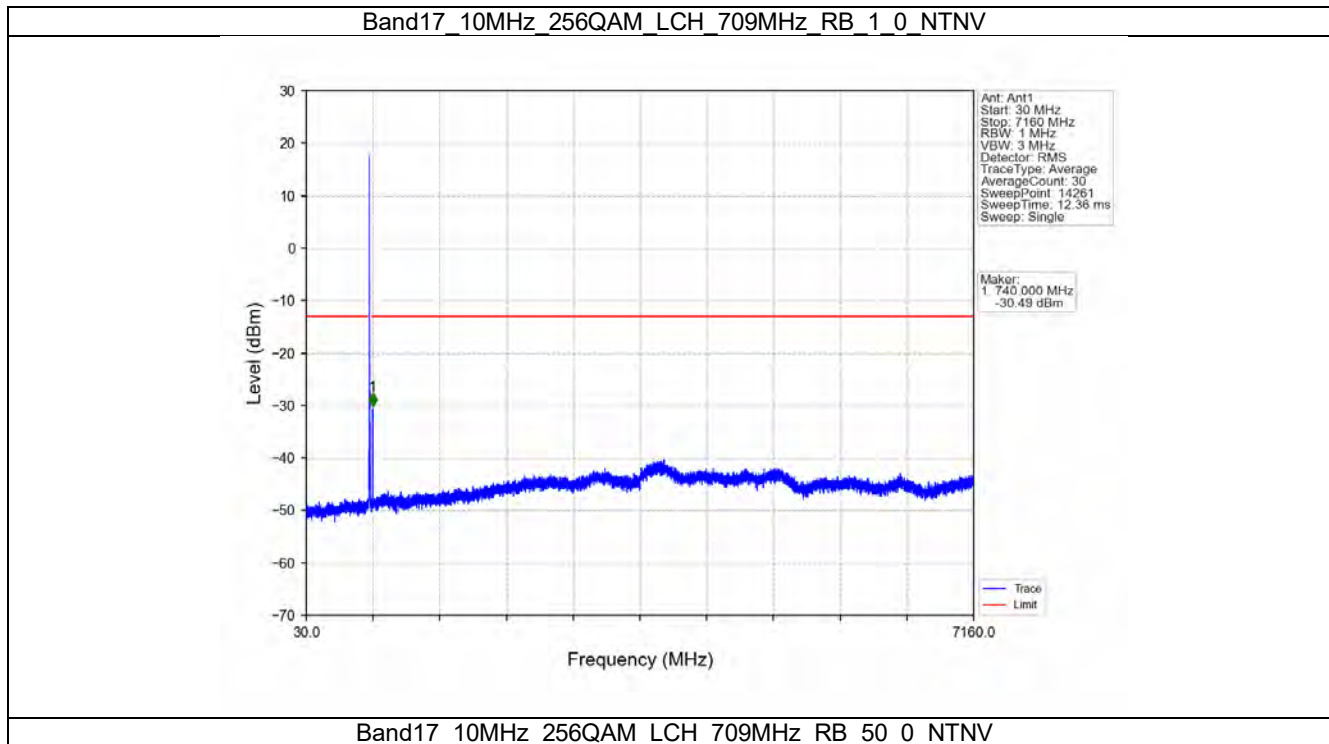
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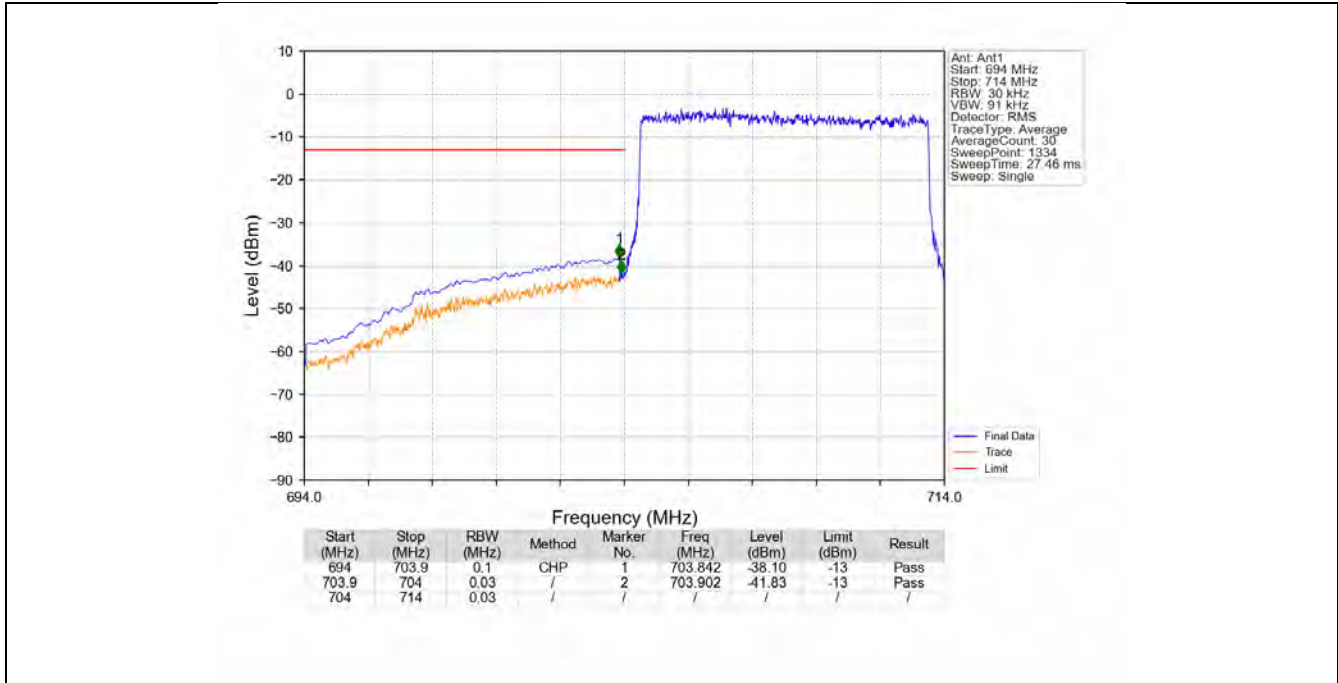


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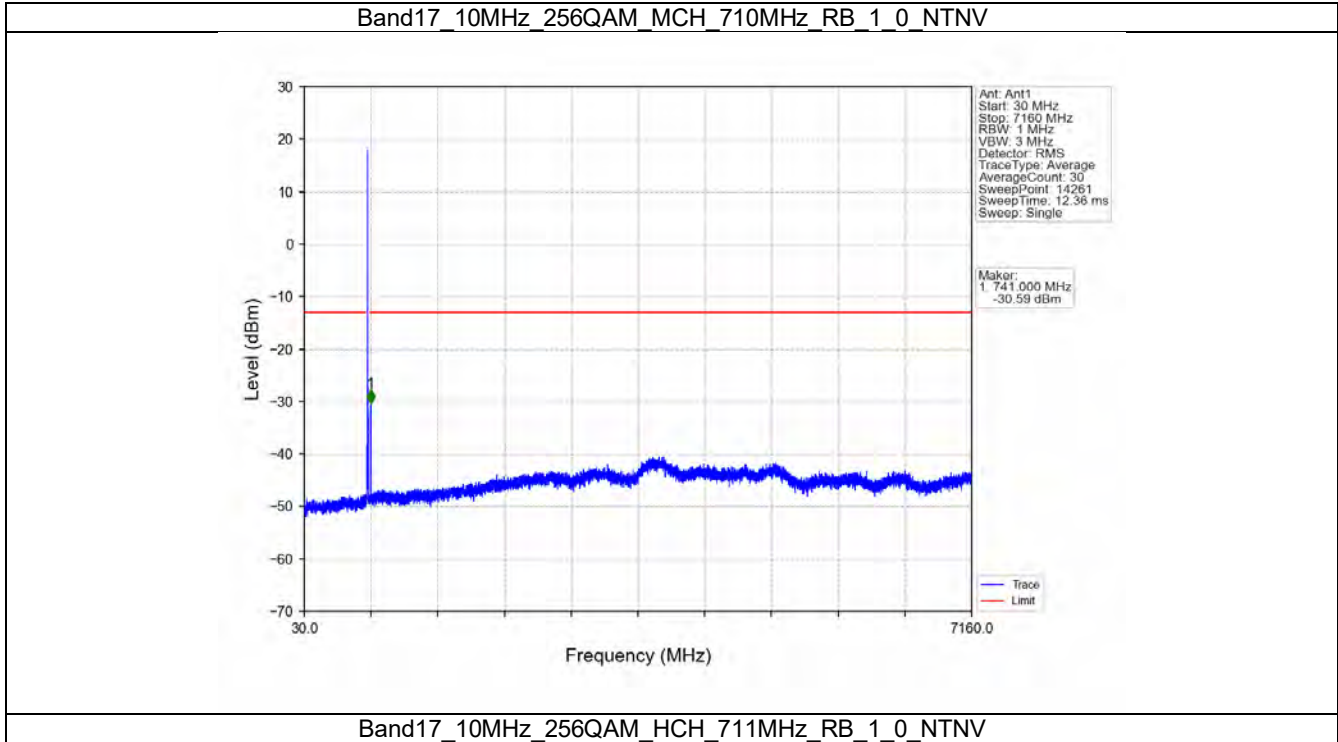


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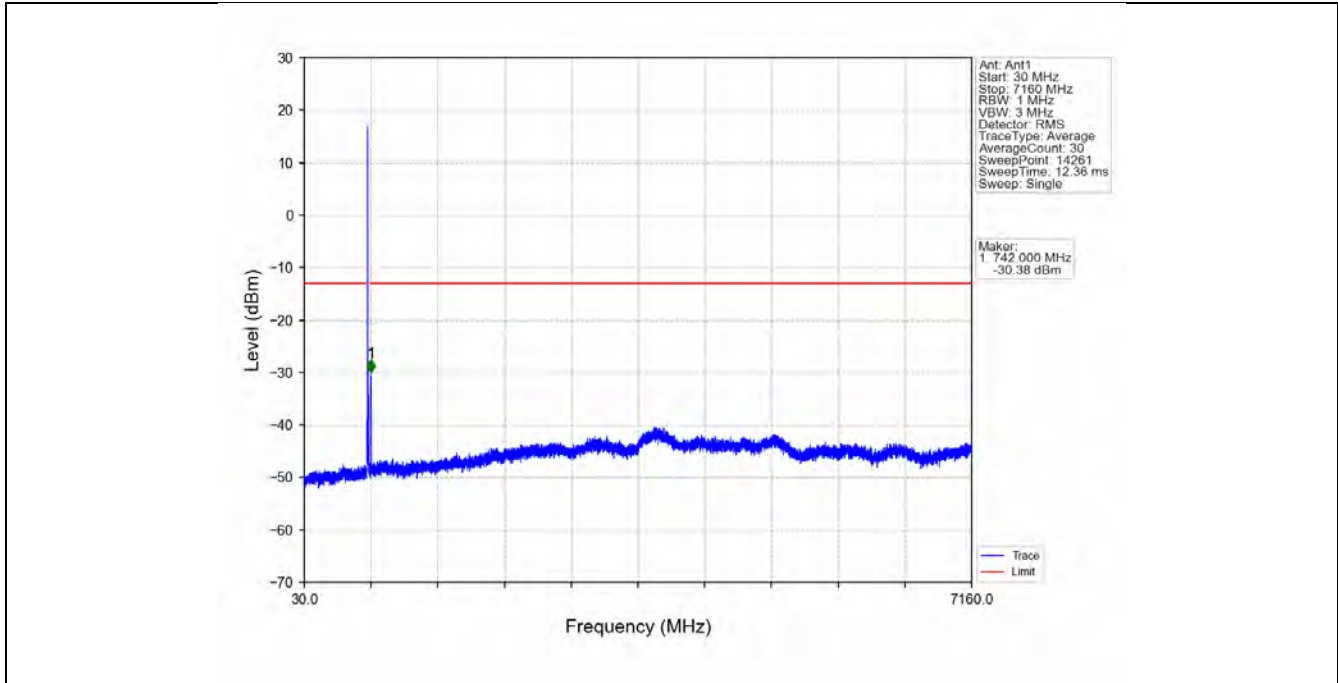


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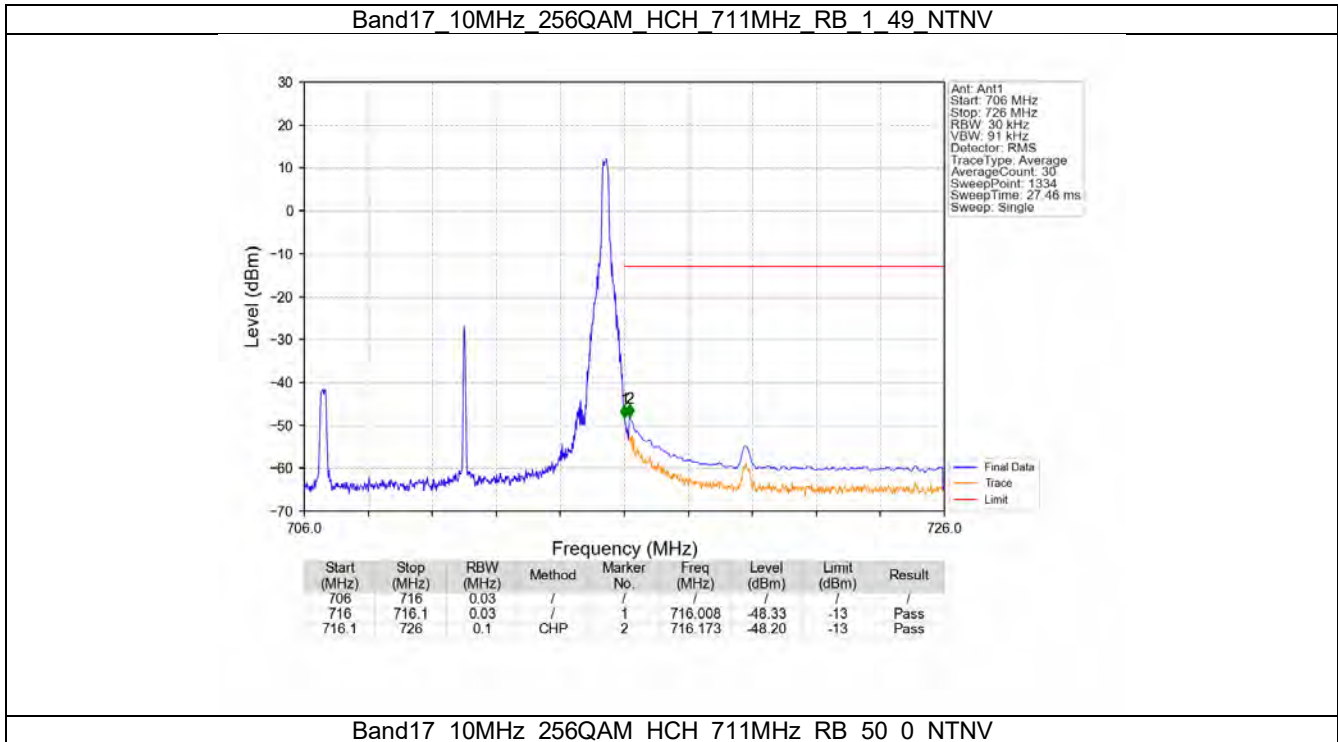


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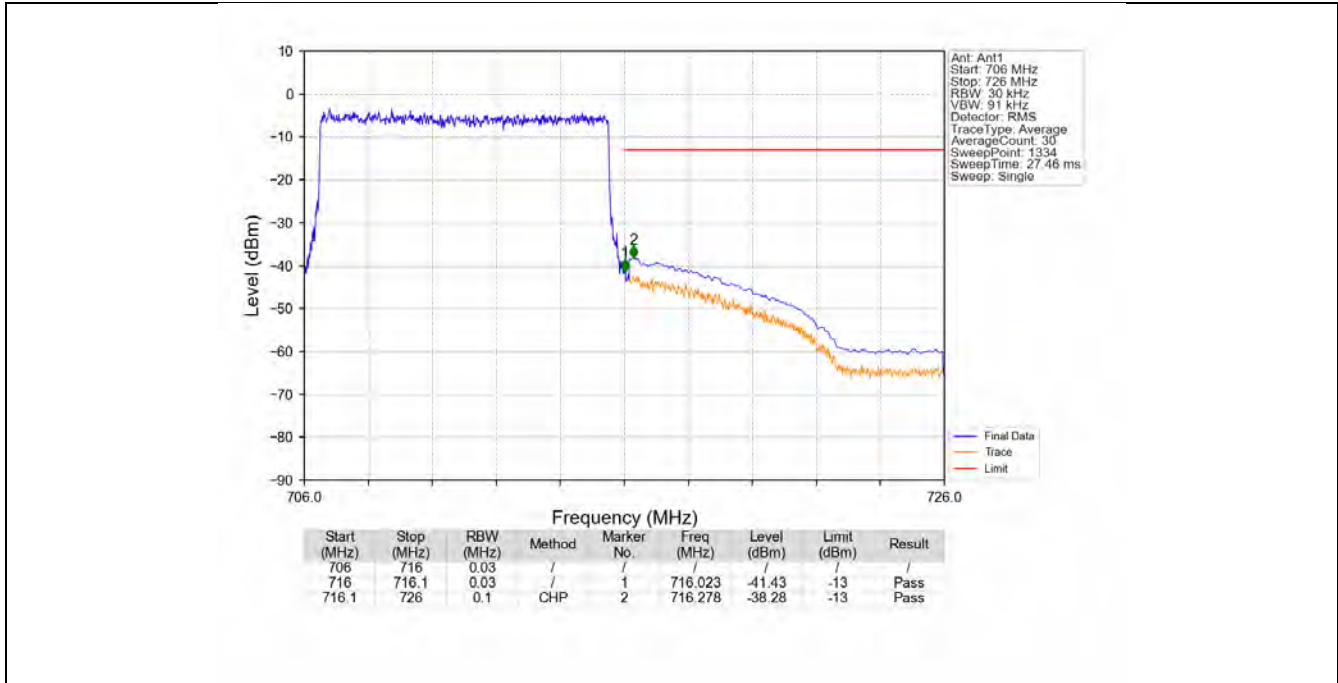


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## 6. Field Strength of Spurious Radiation

LTE Band 17-Low channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1409	-65.80	-13	-52.80	-66.87	1.64	2.71	Horizontal	Pass
2113.5	-61.97	-13	-48.97	-64.24	2.35	4.62	Horizontal	Pass
2818	-58.37	-13	-45.37	-61.525	2.66	5.82	Horizontal	Pass
1409	-63.84	-13	-50.84	-64.91	1.64	2.71	Vertical	Pass
2113.5	-61.72	-13	-48.72	-63.99	2.35	4.62	Vertical	Pass
2818	-58.28	-13	-45.28	-61.435	2.66	5.82	Vertical	Pass

LTE Band 17-Middle channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1411	-65.35	-13	-52.35	-66.42	1.64	2.71	Horizontal	Pass
2116.5	-61.16	-13	-48.16	-63.43	2.35	4.62	Horizontal	Pass
2822	-58.10	-13	-45.10	-61.255	2.66	5.82	Horizontal	Pass
1411	-63.80	-13	-50.80	-64.87	1.64	2.71	Vertical	Pass
2116.5	-61.99	-13	-48.99	-64.26	2.35	4.62	Vertical	Pass
2822	-57.04	-13	-44.04	-60.195	2.66	5.82	Vertical	Pass

LTE Band 17-High channel, Modulation: QPSK, Bandwidth:10MHz, 1RB#0								
Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	Cable Loss (dB)	Antenna Gain (dBi)	Polarization (H/V)	Result
1413	-66.05	-13	-53.05	-67.12	1.64	2.71	Horizontal	Pass
2119.5	-62.07	-13	-49.07	-64.34	2.35	4.62	Horizontal	Pass
2826	-57.65	-13	-44.65	-60.805	2.66	5.82	Horizontal	Pass
1413	-63.92	-13	-50.92	-64.99	1.64	2.71	Vertical	Pass
2119.5	-61.78	-13	-48.78	-64.05	2.35	4.62	Vertical	Pass
2826	-57.41	-13	-44.41	-60.565	2.66	5.82	Vertical	Pass

---End of Attachment---



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