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Appendix B.11

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	23.51	-3.05	18.31	<=34.77	Pass
			13	23.55	-3.05	18.35	<=34.77	Pass
			24	23.51	-3.05	18.31	<=34.77	Pass
		12	0	22.36	-3.05	17.16	<=34.77	Pass
			6	22.43	-3.05	17.23	<=34.77	Pass
			13	22.45	-3.05	17.25	<=34.77	Pass
		25	0	22.50	-3.05	17.3	<=34.77	Pass
	710	1	0	23.44	-3.05	18.24	<=34.77	Pass
			13	23.48	-3.05	18.28	<=34.77	Pass
			24	23.46	-3.05	18.26	<=34.77	Pass
		12	0	22.48	-3.05	17.28	<=34.77	Pass
			6	22.44	-3.05	17.24	<=34.77	Pass
			13	22.33	-3.05	17.13	<=34.77	Pass
		25	0	22.47	-3.05	17.27	<=34.77	Pass
	713.5	1	0	23.50	-3.05	18.3	<=34.77	Pass
			13	23.44	-3.05	18.24	<=34.77	Pass
			24	23.45	-3.05	18.25	<=34.77	Pass
		12	0	22.44	-3.05	17.24	<=34.77	Pass
			6	22.37	-3.05	17.17	<=34.77	Pass
			13	22.46	-3.05	17.26	<=34.77	Pass
		25	0	22.53	-3.05	17.33	<=34.77	Pass
16QAM	706.5	1	0	22.39	-3.05	17.19	<=34.77	Pass
			13	22.33	-3.05	17.13	<=34.77	Pass
			24	22.30	-3.05	17.1	<=34.77	Pass
		12	0	21.39	-3.05	16.19	<=34.77	Pass
			6	21.49	-3.05	16.29	<=34.77	Pass
			13	21.54	-3.05	16.34	<=34.77	Pass
		25	0	21.48	-3.05	16.28	<=34.77	Pass
	710	1	0	22.68	-3.05	17.48	<=34.77	Pass
			13	22.72	-3.05	17.52	<=34.77	Pass
			24	22.72	-3.05	17.52	<=34.77	Pass
		12	0	21.54	-3.05	16.34	<=34.77	Pass
			6	21.50	-3.05	16.3	<=34.77	Pass
			13	21.38	-3.05	16.18	<=34.77	Pass
		25	0	21.46	-3.05	16.26	<=34.77	Pass
	713.5	1	0	22.60	-3.05	17.4	<=34.77	Pass
			13	22.58	-3.05	17.38	<=34.77	Pass
			24	22.51	-3.05	17.31	<=34.77	Pass
		12	0	21.50	-3.05	16.3	<=34.77	Pass



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64QAM		25	6	21.39	-3.05	16.19	<=34.77	Pass
			13	21.44	-3.05	16.24	<=34.77	Pass
			0	21.52	-3.05	16.32	<=34.77	Pass
	706.5	1	0	21.49	-3.05	16.29	<=34.77	Pass
			13	21.43	-3.05	16.23	<=34.77	Pass
			24	21.41	-3.05	16.21	<=34.77	Pass
		12	0	20.36	-3.05	15.16	<=34.77	Pass
			6	20.47	-3.05	15.27	<=34.77	Pass
			13	20.50	-3.05	15.3	<=34.77	Pass
		25	0	20.48	-3.05	15.28	<=34.77	Pass
	710	1	0	21.58	-3.05	16.38	<=34.77	Pass
			13	21.62	-3.05	16.42	<=34.77	Pass
			24	21.62	-3.05	16.42	<=34.77	Pass
		12	0	20.51	-3.05	15.31	<=34.77	Pass
			6	20.49	-3.05	15.29	<=34.77	Pass
			13	20.40	-3.05	15.2	<=34.77	Pass
		25	0	20.52	-3.05	15.32	<=34.77	Pass
	713.5	1	0	21.66	-3.05	16.46	<=34.77	Pass
			13	21.58	-3.05	16.38	<=34.77	Pass
			24	21.65	-3.05	16.45	<=34.77	Pass
		12	0	20.67	-3.05	15.47	<=34.77	Pass
			6	20.54	-3.05	15.34	<=34.77	Pass
			13	20.56	-3.05	15.36	<=34.77	Pass
		25	0	20.50	-3.05	15.3	<=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	23.48	-3.05	18.28	<=34.77	Pass
			25	23.50	-3.05	18.3	<=34.77	Pass
			49	23.37	-3.05	18.17	<=34.77	Pass
		25	0	22.30	-3.05	17.1	<=34.77	Pass
			13	22.47	-3.05	17.27	<=34.77	Pass
			25	22.34	-3.05	17.14	<=34.77	Pass
		50	0	22.32	-3.05	17.12	<=34.77	Pass
	710	1	0	23.42	-3.05	18.22	<=34.77	Pass
			25	23.44	-3.05	18.24	<=34.77	Pass
			49	23.38	-3.05	18.18	<=34.77	Pass
		25	0	22.35	-3.05	17.15	<=34.77	Pass
			13	22.48	-3.05	17.28	<=34.77	Pass
			25	22.34	-3.05	17.14	<=34.77	Pass
		50	0	22.36	-3.05	17.16	<=34.77	Pass
	711	1	0	23.47	-3.05	18.27	<=34.77	Pass
			25	23.47	-3.05	18.27	<=34.77	Pass
			49	23.41	-3.05	18.21	<=34.77	Pass
		25	0	22.52	-3.05	17.32	<=34.77	Pass
			13	22.47	-3.05	17.27	<=34.77	Pass
			25	22.35	-3.05	17.15	<=34.77	Pass
		50	0	22.44	-3.05	17.24	<=34.77	Pass
16QAM	709	1	0	23.09	-3.05	17.89	<=34.77	Pass
			25	22.98	-3.05	17.78	<=34.77	Pass
			49	23.02	-3.05	17.82	<=34.77	Pass
		25	0	21.39	-3.05	16.19	<=34.77	Pass
			13	21.53	-3.05	16.33	<=34.77	Pass
			25	21.37	-3.05	16.17	<=34.77	Pass
		50	0	21.36	-3.05	16.16	<=34.77	Pass
	710	1	0	22.66	-3.05	17.46	<=34.77	Pass
			25	22.68	-3.05	17.48	<=34.77	Pass
			49	22.56	-3.05	17.36	<=34.77	Pass
		25	0	21.39	-3.05	16.19	<=34.77	Pass
			13	21.46	-3.05	16.26	<=34.77	Pass
			25	21.33	-3.05	16.13	<=34.77	Pass
		50	0	21.38	-3.05	16.18	<=34.77	Pass
	711	1	0	22.51	-3.05	17.31	<=34.77	Pass
			25	22.51	-3.05	17.31	<=34.77	Pass
			49	22.48	-3.05	17.28	<=34.77	Pass
		25	0	21.60	-3.05	16.4	<=34.77	Pass
			13	21.58	-3.05	16.38	<=34.77	Pass
			25	21.48	-3.05	16.28	<=34.77	Pass



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		50	0	21.45	-3.05	16.25	<=34.77	Pass
64QAM	709	1	0	21.73	-3.05	16.53	<=34.77	Pass
			25	21.74	-3.05	16.54	<=34.77	Pass
			49	21.66	-3.05	16.46	<=34.77	Pass
			0	20.35	-3.05	15.15	<=34.77	Pass
		25	13	20.47	-3.05	15.27	<=34.77	Pass
			25	20.34	-3.05	15.14	<=34.77	Pass
			50	20.36	-3.05	15.16	<=34.77	Pass
	710	1	0	21.58	-3.05	16.38	<=34.77	Pass
			25	21.58	-3.05	16.38	<=34.77	Pass
			49	21.53	-3.05	16.33	<=34.77	Pass
		25	0	20.47	-3.05	15.27	<=34.77	Pass
			13	20.54	-3.05	15.34	<=34.77	Pass
			25	20.35	-3.05	15.15	<=34.77	Pass
			50	20.37	-3.05	15.17	<=34.77	Pass
	711	1	0	21.34	-3.05	16.14	<=34.77	Pass
			25	21.40	-3.05	16.2	<=34.77	Pass
			49	21.29	-3.05	16.09	<=34.77	Pass
		25	0	20.57	-3.05	15.37	<=34.77	Pass
			13	20.54	-3.05	15.34	<=34.77	Pass
			25	20.44	-3.05	15.24	<=34.77	Pass
			50	20.52	-3.05	15.32	<=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	3.5	0.212	0.0003	/	Pass
					3.87	3.795	0.0054	/	Pass
					4.45	1.846	0.0026	/	Pass
				-30	3.87	2.150	0.0030	/	Pass
				-20	3.87	1.896	0.0027	/	Pass
				-10	3.87	-0.286	-0.0004	/	Pass
				0	3.87	1.478	0.0021	/	Pass
				10	3.87	1.895	0.0027	/	Pass
				30	3.87	0.828	0.0012	/	Pass
				40	3.87	-1.820	-0.0026	/	Pass
				50	3.87	2.168	0.0031	/	Pass
				710	25	0	20	3.5	-1.324
	3.87	-1.543	-0.0022					/	Pass
	4.45	2.138	0.0030					/	Pass
	-30	3.87	3.164				0.0045	/	Pass
	-20	3.87	-0.209				-0.0003	/	Pass
	-10	3.87	-1.068				-0.0015	/	Pass
	0	3.87	0.852				0.0012	/	Pass
	10	3.87	-1.406				-0.0020	/	Pass
	30	3.87	-0.989				-0.0014	/	Pass
	40	3.87	-1.283				-0.0018	/	Pass
	50	3.87	-0.841				-0.0012	/	Pass
	713.5	25	0				20	3.5	-0.148
				3.87	-0.775	-0.0011		/	Pass
				4.45	-3.016	-0.0042		/	Pass
				-30	3.87	-2.196	-0.0031	/	Pass
				-20	3.87	-1.204	-0.0017	/	Pass
				-10	3.87	-0.677	-0.0009	/	Pass
				0	3.87	-1.633	-0.0023	/	Pass
				10	3.87	-0.129	-0.0002	/	Pass
				30	3.87	-1.970	-0.0028	/	Pass
				40	3.87	-1.079	-0.0015	/	Pass
				50	3.87	1.102	0.0015	/	Pass
16QAM				706.5	25	0	20	3.5	1.124
	3.87	2.054	0.0029					/	Pass
	4.45	-0.126	-0.0002					/	Pass
	-30	3.87	0.451				0.0006	/	Pass
	-20	3.87	-1.178				-0.0017	/	Pass
	-10	3.87	1.867				0.0026	/	Pass



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				10	3.87	-0.837	-0.0012	/	Pass
				30	3.87	-1.016	-0.0014	/	Pass
				40	3.87	-0.148	-0.0002	/	Pass
				50	3.87	0.736	0.0010	/	Pass
				20	3.5	-0.848	-0.0012	/	Pass
					3.87	-1.526	-0.0021	/	Pass
				20	4.45	-0.055	-0.0001	/	Pass
					3.87	-2.188	-0.0031	/	Pass
				-30	3.87	-2.188	-0.0031	/	Pass
				-20	3.87	-0.968	-0.0014	/	Pass
				-10	3.87	1.520	0.0021	/	Pass
				0	3.87	-1.713	-0.0024	/	Pass
				10	3.87	0.210	0.0003	/	Pass
				30	3.87	-3.156	-0.0044	/	Pass
				40	3.87	-1.911	-0.0027	/	Pass
				50	3.87	-0.793	-0.0011	/	Pass
	713.5	25	0	20	3.5	-2.359	-0.0033	/	Pass
					3.87	2.107	0.0030	/	Pass
				20	4.45	-0.347	-0.0005	/	Pass
					3.87	-0.500	-0.0007	/	Pass
				-30	3.87	-0.500	-0.0007	/	Pass
				-20	3.87	3.049	0.0043	/	Pass
				-10	3.87	3.868	0.0054	/	Pass
				0	3.87	2.337	0.0033	/	Pass
				10	3.87	-0.113	-0.0002	/	Pass
				30	3.87	0.993	0.0014	/	Pass
				40	3.87	-0.284	-0.0004	/	Pass
				50	3.87	1.668	0.0023	/	Pass
	706.5	25	0	20	3.5	2.180	0.0031	/	Pass
					3.87	1.391	0.0020	/	Pass
				20	4.45	-0.739	-0.0010	/	Pass
					3.87	2.723	0.0039	/	Pass
				-30	3.87	2.723	0.0039	/	Pass
				-20	3.87	2.029	0.0029	/	Pass
				-10	3.87	-0.246	-0.0003	/	Pass
				0	3.87	3.689	0.0052	/	Pass
				10	3.87	-0.125	-0.0002	/	Pass
				30	3.87	0.896	0.0013	/	Pass
				40	3.87	2.337	0.0033	/	Pass
				50	3.87	-1.377	-0.0019	/	Pass
	710	25	0	20	3.5	0.580	0.0008	/	Pass
					3.87	-2.571	-0.0036	/	Pass
				20	4.45	-0.866	-0.0012	/	Pass
					3.87	-0.400	-0.0006	/	Pass
				-30	3.87	-0.400	-0.0006	/	Pass
				-20	3.87	-0.042	-0.0001	/	Pass
				-10	3.87	0.755	0.0011	/	Pass
				0	3.87	-0.150	-0.0002	/	Pass
				10	3.87	2.015	0.0028	/	Pass
				30	3.87	1.218	0.0017	/	Pass
				40	3.87	-0.999	-0.0014	/	Pass
				50	3.87	1.326	0.0019	/	Pass



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	713.5	25	0	20	3.5	1.613	0.0023	/	Pass
					3.87	0.224	0.0003	/	Pass
					4.45	-0.248	-0.0003	/	Pass
				-30	3.87	0.974	0.0014	/	Pass
				-20	3.87	0.227	0.0003	/	Pass
				-10	3.87	0.844	0.0012	/	Pass
				0	3.87	1.287	0.0018	/	Pass
				10	3.87	2.080	0.0029	/	Pass
				30	3.87	1.122	0.0016	/	Pass
				40	3.87	-1.771	-0.0025	/	Pass
				50	3.87	1.911	0.0027	/	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	3.5	0.349	0.0005	/	Pass
					3.87	1.586	0.0022	/	Pass
					4.45	2.257	0.0032	/	Pass
				-30	3.87	-0.577	-0.0008	/	Pass
				-20	3.87	0.457	0.0006	/	Pass
				-10	3.87	0.468	0.0007	/	Pass
				0	3.87	2.453	0.0035	/	Pass
				10	3.87	-1.290	-0.0018	/	Pass
				30	3.87	-0.019	0.0000	/	Pass
				40	3.87	-0.619	-0.0009	/	Pass
				50	3.87	0.161	0.0002	/	Pass
	710	50	0	20	3.5	0.173	0.0002	/	Pass
					3.87	3.479	0.0049	/	Pass
					4.45	2.632	0.0037	/	Pass
				-30	3.87	-2.531	-0.0036	/	Pass
				-20	3.87	1.880	0.0026	/	Pass
				-10	3.87	-0.048	-0.0001	/	Pass
				0	3.87	0.555	0.0008	/	Pass
				10	3.87	2.320	0.0033	/	Pass
				30	3.87	3.479	0.0049	/	Pass
				40	3.87	2.912	0.0041	/	Pass
				50	3.87	2.127	0.0030	/	Pass
	711	50	0	20	3.5	1.598	0.0022	/	Pass
					3.87	0.742	0.0010	/	Pass
					4.45	2.801	0.0039	/	Pass
				-30	3.87	1.023	0.0014	/	Pass
				-20	3.87	0.897	0.0013	/	Pass
				-10	3.87	3.892	0.0055	/	Pass
				0	3.87	1.760	0.0025	/	Pass
				10	3.87	0.705	0.0010	/	Pass
				30	3.87	3.240	0.0046	/	Pass
				40	3.87	0.192	0.0003	/	Pass
				50	3.87	-0.142	-0.0002	/	Pass
16QAM	709	50	0	20	3.5	-2.013	-0.0028	/	Pass
					3.87	1.971	0.0028	/	Pass
					4.45	-1.686	-0.0024	/	Pass
				-30	3.87	-0.269	-0.0004	/	Pass
				-20	3.87	-1.244	-0.0018	/	Pass
				-10	3.87	0.879	0.0012	/	Pass
				0	3.87	-3.875	-0.0055	/	Pass
				10	3.87	1.197	0.0017	/	Pass



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				30	3.87	1.966	0.0028	/	Pass
				40	3.87	2.294	0.0032	/	Pass
				50	3.87	2.591	0.0037	/	Pass
710	50	0	20	3.5	2.004	0.0028	/	Pass	Pass
				3.87	3.321	0.0047	/	Pass	Pass
				4.45	1.721	0.0024	/	Pass	Pass
			-30	3.87	3.271	0.0046	/	Pass	Pass
			-20	3.87	0.761	0.0011	/	Pass	Pass
			-10	3.87	-1.957	-0.0028	/	Pass	Pass
			0	3.87	-0.385	-0.0005	/	Pass	Pass
			10	3.87	2.406	0.0034	/	Pass	Pass
			30	3.87	0.152	0.0002	/	Pass	Pass
			40	3.87	0.189	0.0003	/	Pass	Pass
			50	3.87	1.781	0.0025	/	Pass	Pass
711	50	0	20	3.5	-0.293	-0.0004	/	Pass	Pass
				3.87	-0.020	0.0000	/	Pass	Pass
				4.45	3.096	0.0044	/	Pass	Pass
			-30	3.87	-0.735	-0.0010	/	Pass	Pass
			-20	3.87	-1.602	-0.0023	/	Pass	Pass
			-10	3.87	-0.068	-0.0001	/	Pass	Pass
			0	3.87	3.020	0.0042	/	Pass	Pass
			10	3.87	4.324	0.0061	/	Pass	Pass
			30	3.87	-0.648	-0.0009	/	Pass	Pass
			40	3.87	1.075	0.0015	/	Pass	Pass
			50	3.87	-0.809	-0.0011	/	Pass	Pass
64QAM	709	50	20	3.5	4.092	0.0058	/	Pass	Pass
				3.87	3.431	0.0048	/	Pass	Pass
				4.45	0.400	0.0006	/	Pass	Pass
			-30	3.87	2.313	0.0033	/	Pass	Pass
			-20	3.87	2.480	0.0035	/	Pass	Pass
			-10	3.87	-1.206	-0.0017	/	Pass	Pass
			0	3.87	1.255	0.0018	/	Pass	Pass
			10	3.87	0.459	0.0006	/	Pass	Pass
			30	3.87	0.588	0.0008	/	Pass	Pass
			40	3.87	1.006	0.0014	/	Pass	Pass
			50	3.87	1.169	0.0016	/	Pass	Pass
	710	50	20	3.5	1.468	0.0021	/	Pass	Pass
				3.87	1.141	0.0016	/	Pass	Pass
				4.45	1.827	0.0026	/	Pass	Pass
			-30	3.87	-0.605	-0.0009	/	Pass	Pass
			-20	3.87	0.887	0.0012	/	Pass	Pass
			-10	3.87	1.292	0.0018	/	Pass	Pass
			0	3.87	1.020	0.0014	/	Pass	Pass
			10	3.87	1.931	0.0027	/	Pass	Pass
			30	3.87	1.191	0.0017	/	Pass	Pass
			40	3.87	-1.871	-0.0026	/	Pass	Pass
			50	3.87	2.985	0.0042	/	Pass	Pass
	711	50	0	20	3.5	0.542	0.0008	/	Pass
				3.87	1.232	0.0017	/	Pass	Pass



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					4.45	1.918	0.0027	/	Pass
				-30	3.87	2.416	0.0034	/	Pass
				-20	3.87	3.505	0.0049	/	Pass
				-10	3.87	-0.720	-0.0010	/	Pass
				0	3.87	0.653	0.0009	/	Pass
				10	3.87	0.524	0.0007	/	Pass
				30	3.87	3.583	0.0050	/	Pass
				40	3.87	0.957	0.0013	/	Pass
				50	3.87	1.243	0.0017	/	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	4.531	/	Pass
		710	25	0	4.531	/	Pass
		713.5	25	0	4.571	/	Pass
	16QAM	706.5	25	0	4.559	/	Pass
		710	25	0	4.538	/	Pass
		713.5	25	0	4.557	/	Pass
	64QAM	706.5	25	0	4.546	/	Pass
		710	25	0	4.531	/	Pass
		713.5	25	0	4.568	/	Pass
10	QPSK	709	50	0	8.947	/	Pass
		710	50	0	8.956	/	Pass
		711	50	0	9.013	/	Pass
	16QAM	709	50	0	8.944	/	Pass
		710	50	0	8.961	/	Pass
		711	50	0	9.033	/	Pass
	64QAM	709	50	0	8.941	/	Pass
		710	50	0	8.957	/	Pass
		711	50	0	9.023	/	Pass



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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	5.030	/	Pass
		710	25	0	4.985	/	Pass
		713.5	25	0	5.117	/	Pass
	16QAM	706.5	25	0	5.034	/	Pass
		710	25	0	5.028	/	Pass
		713.5	25	0	5.037	/	Pass
	64QAM	706.5	25	0	5.057	/	Pass
		710	25	0	5.030	/	Pass
		713.5	25	0	5.082	/	Pass
10	QPSK	709	50	0	9.890	/	Pass
		710	50	0	9.847	/	Pass
		711	50	0	9.932	/	Pass
	16QAM	709	50	0	9.788	/	Pass
		710	50	0	9.895	/	Pass
		711	50	0	9.895	/	Pass
	64QAM	709	50	0	9.808	/	Pass
		710	50	0	9.768	/	Pass
		711	50	0	9.882	/	Pass



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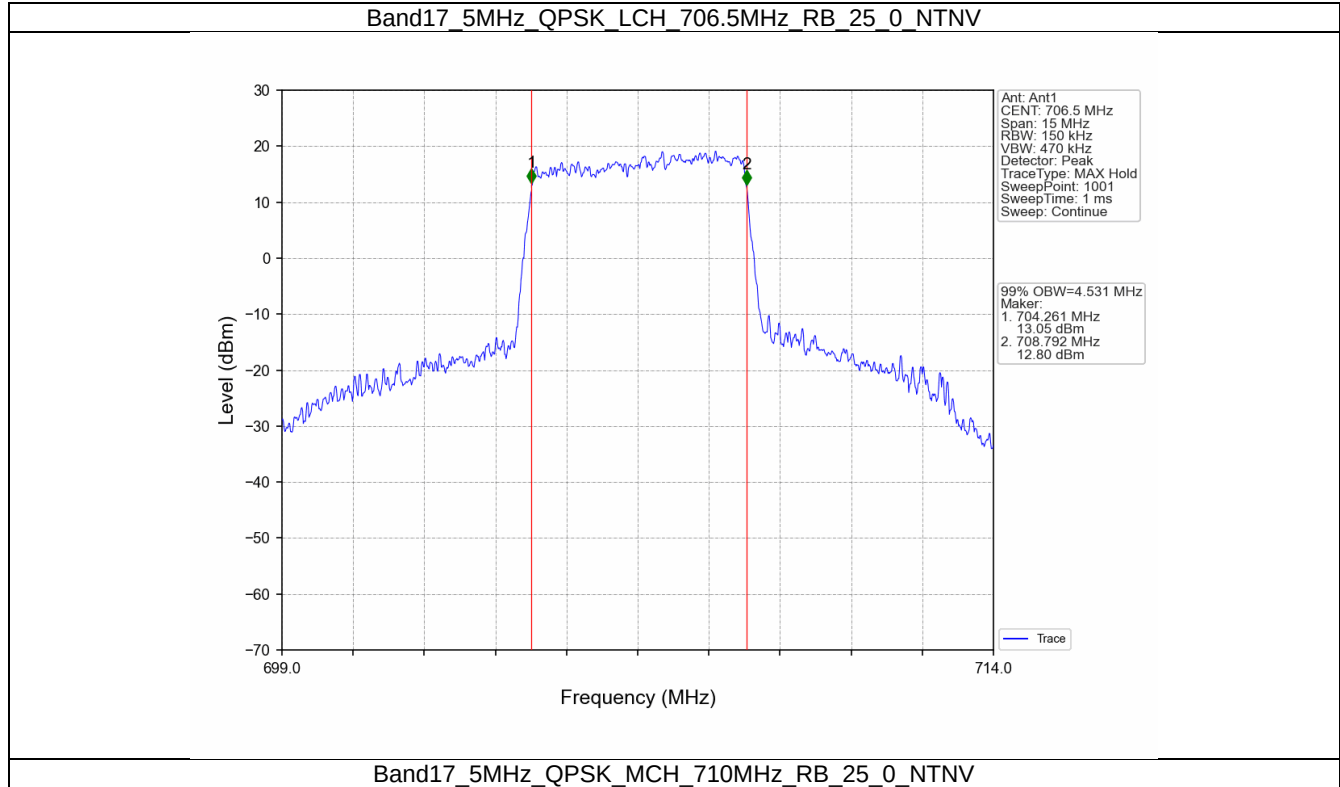
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3.1 Band17_OBW

3.1.2 Test Graph



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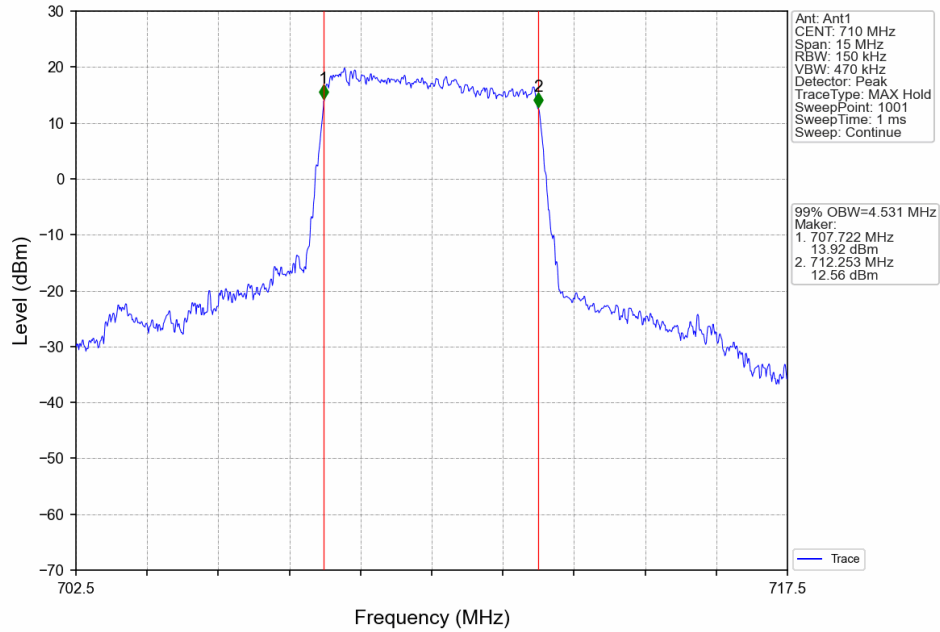
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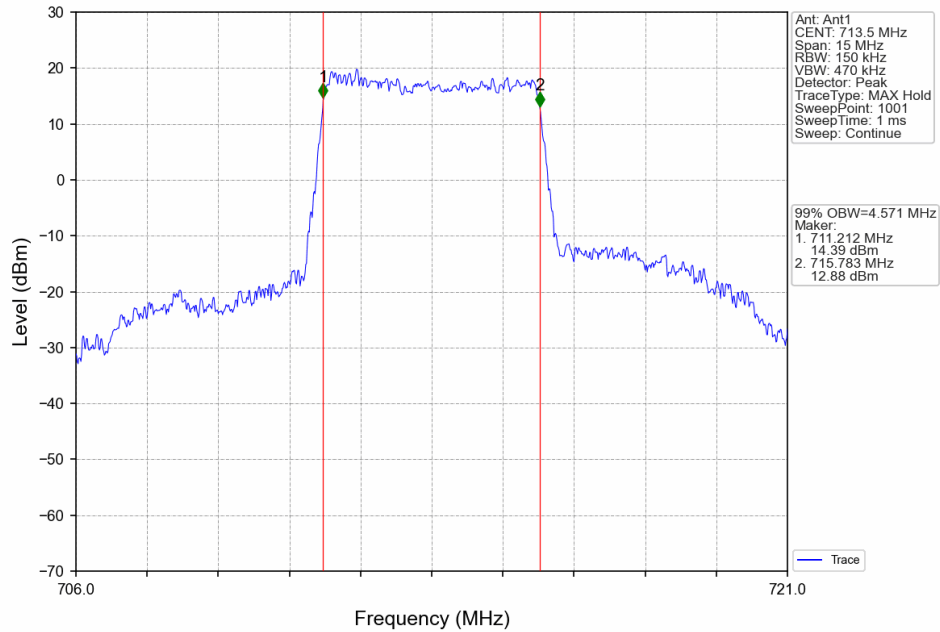
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Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



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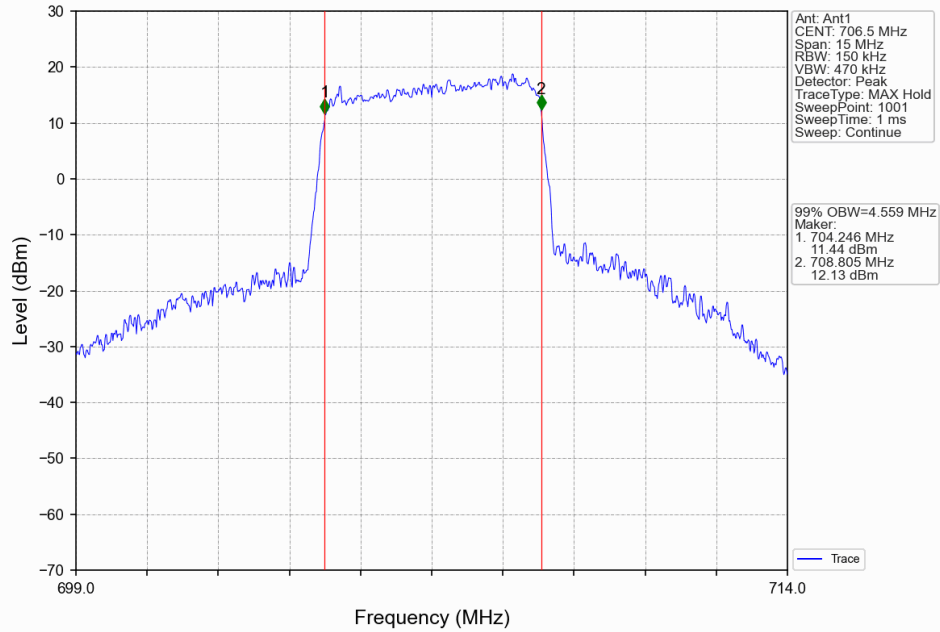
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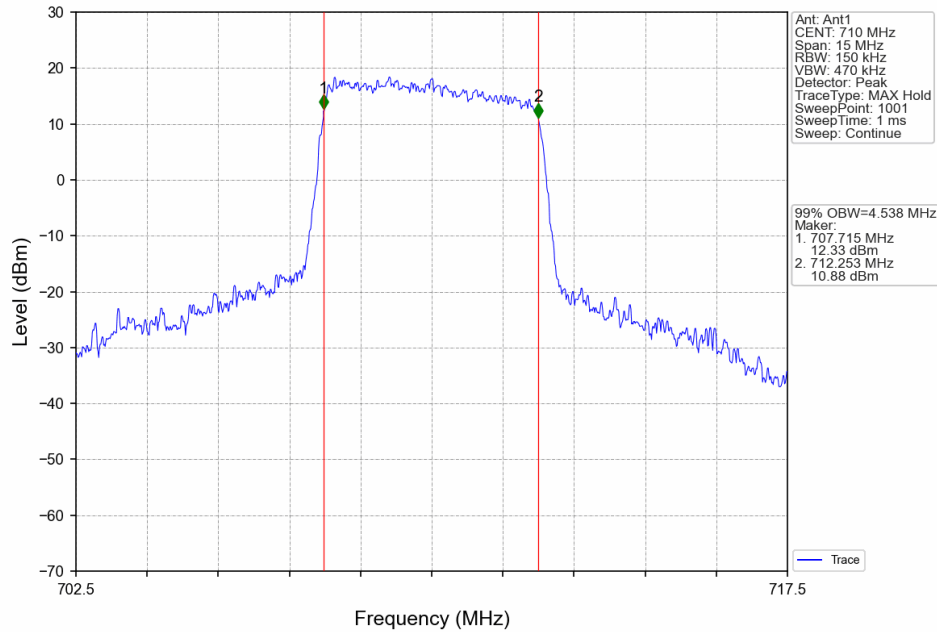
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Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



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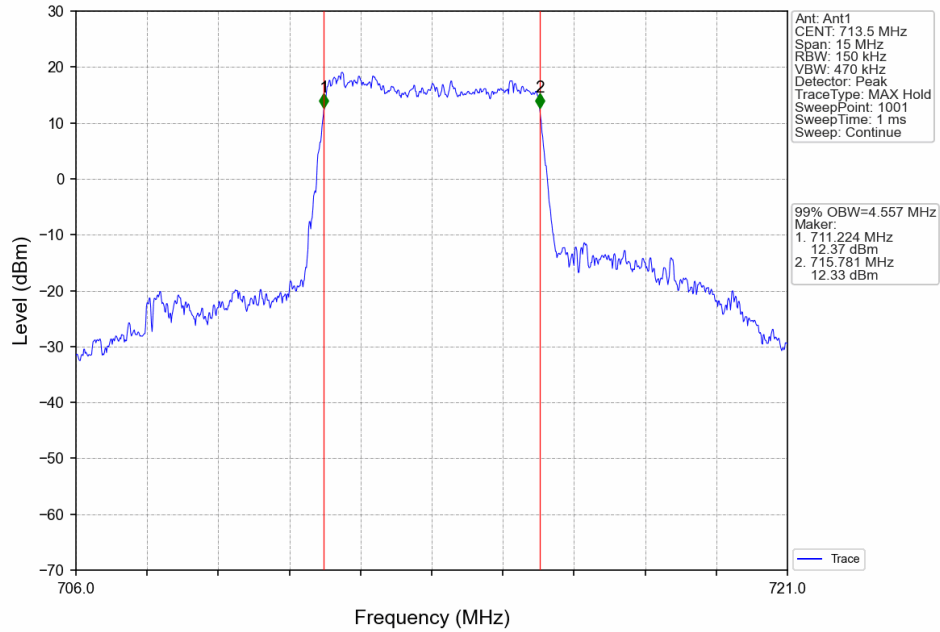
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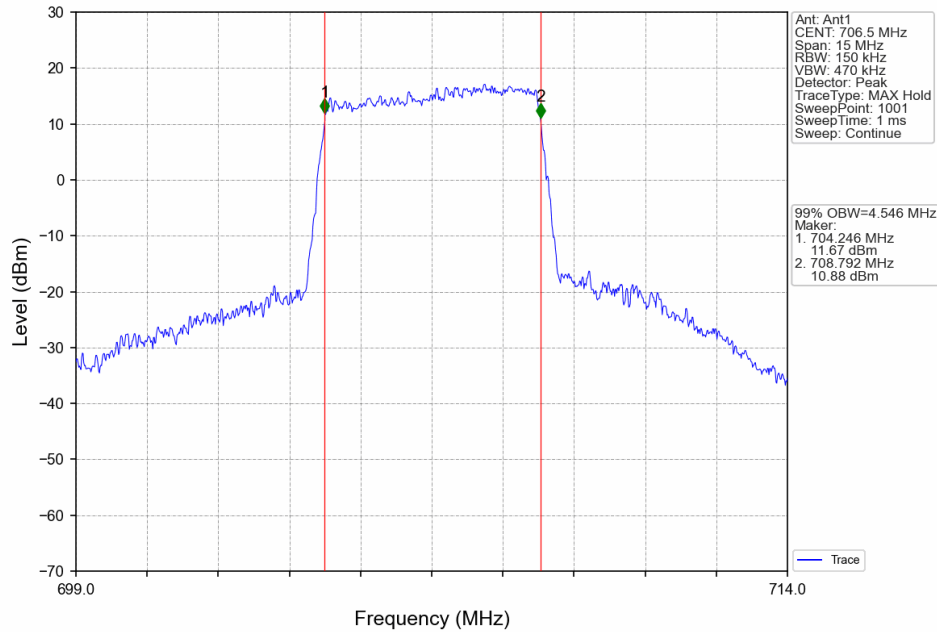
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Band17_5MHz_64QAM_MCH_710MHz_RB_25_0_NTNV



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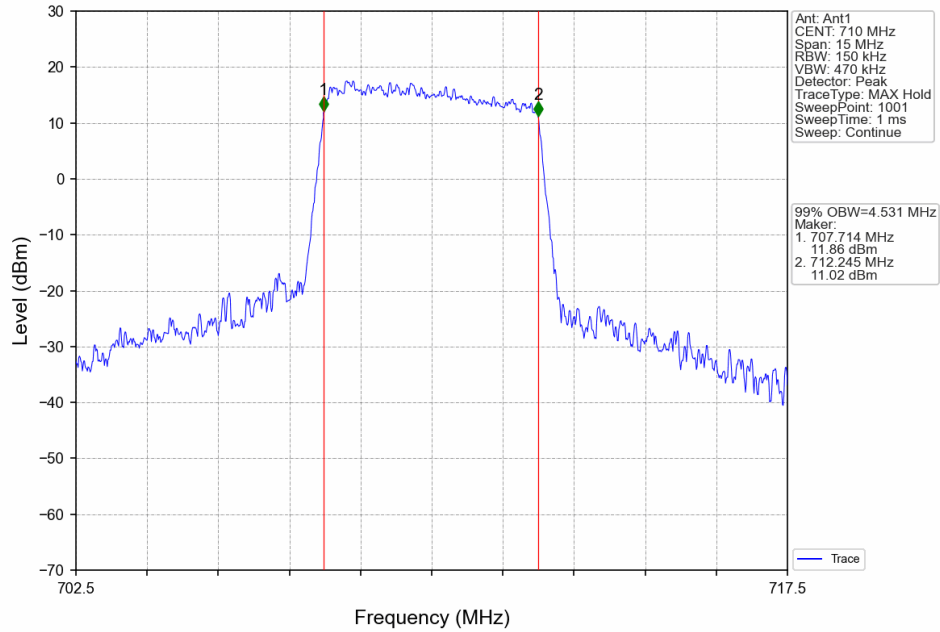
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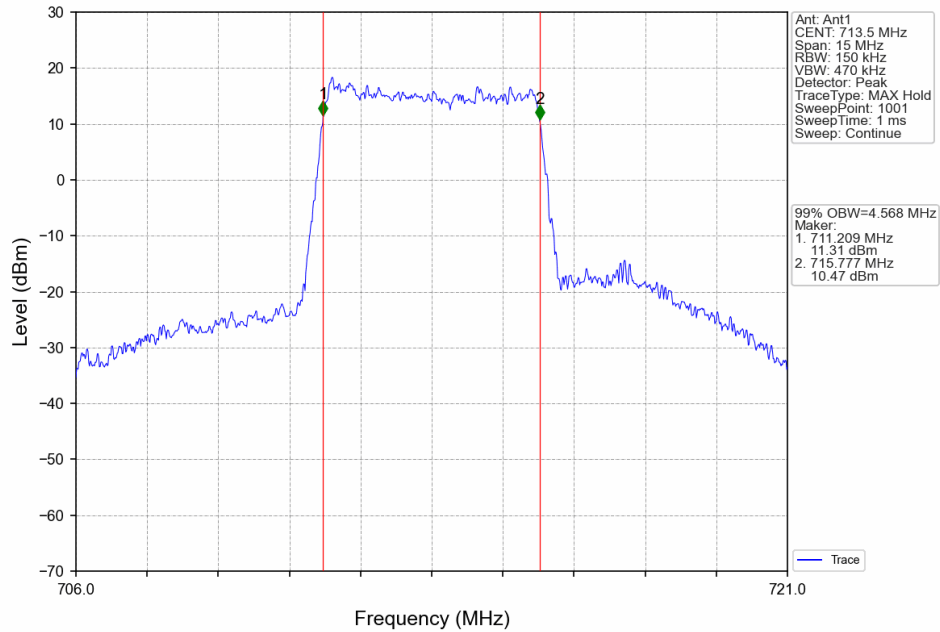
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Band17 5MHz 64QAM HCH 713.5MHz RB 25 0 NTN



Band17 10MHz QPSK LCH 709MHz RB 50 0 NTN



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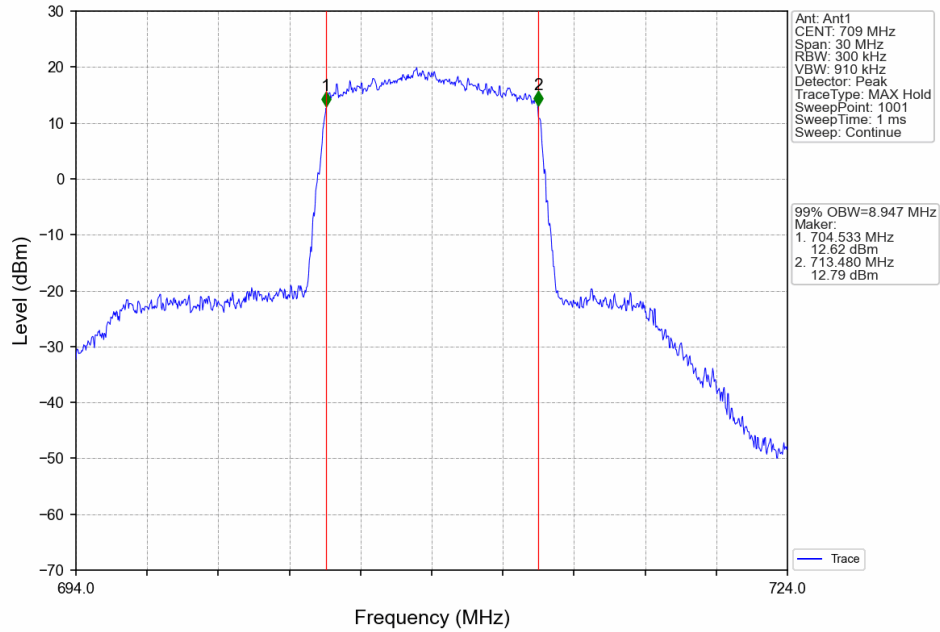
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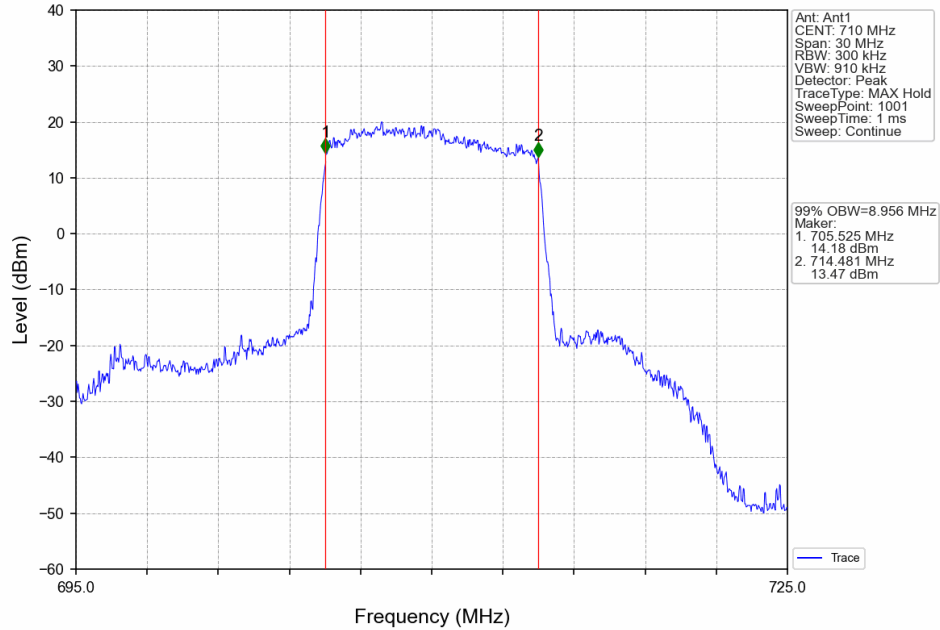
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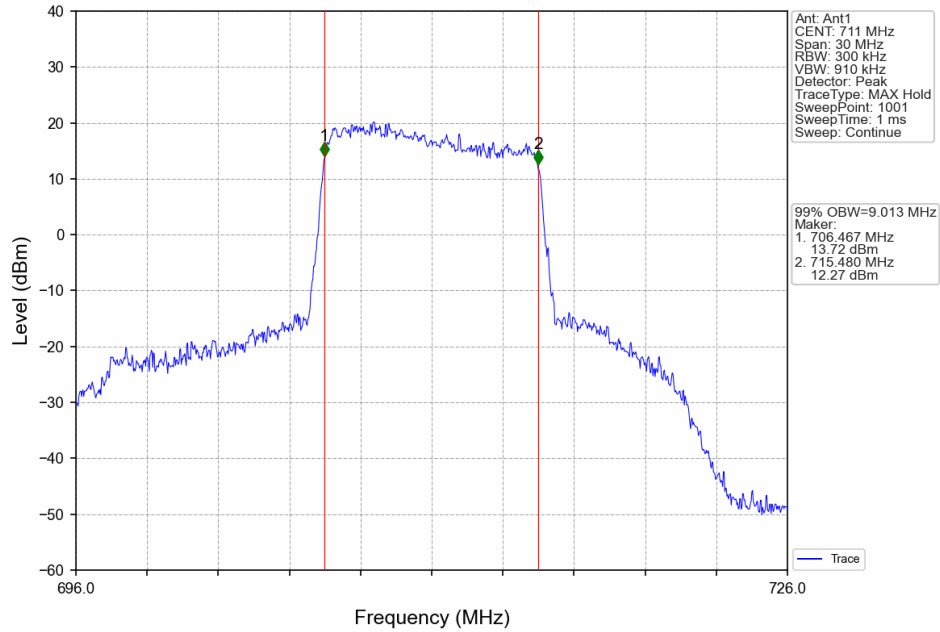
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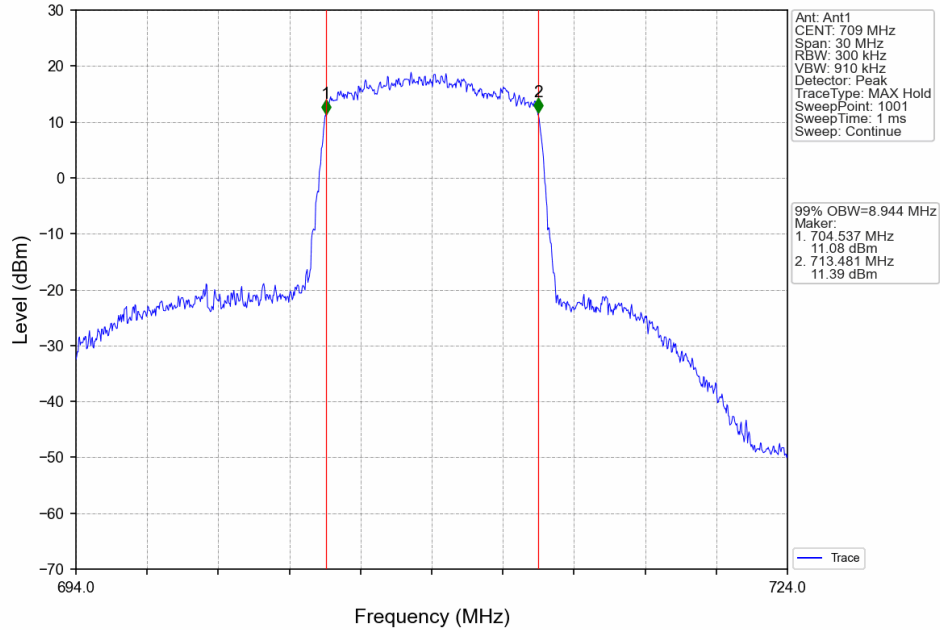
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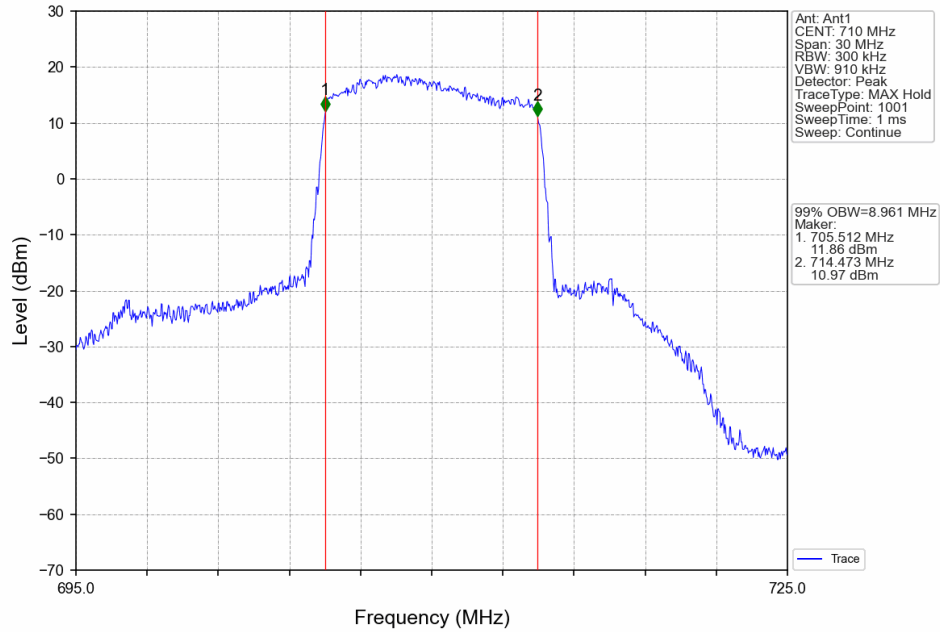
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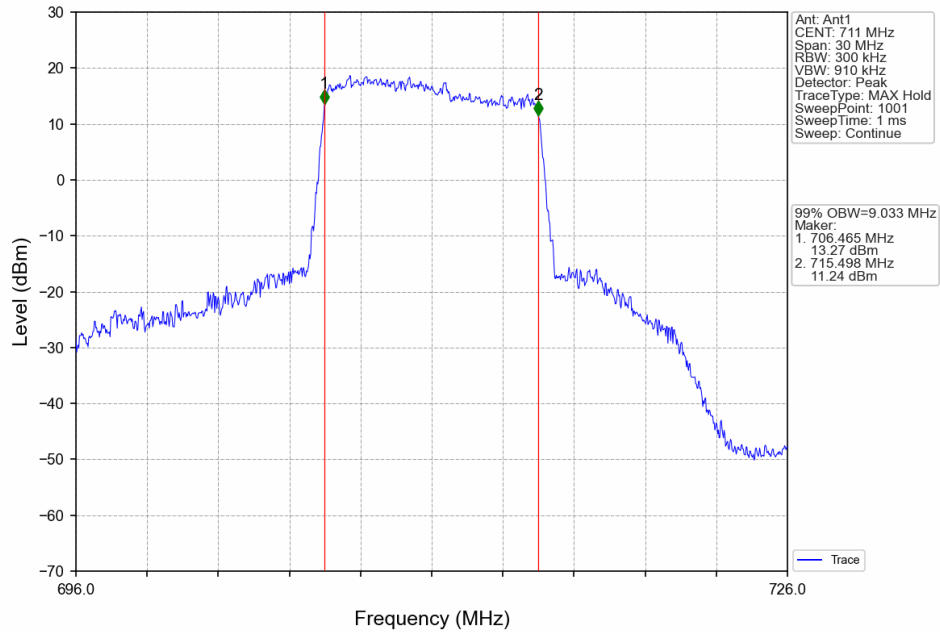
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Band17_10MHz_64QAM_LCH_709MHz_RB_50_0_NTNV



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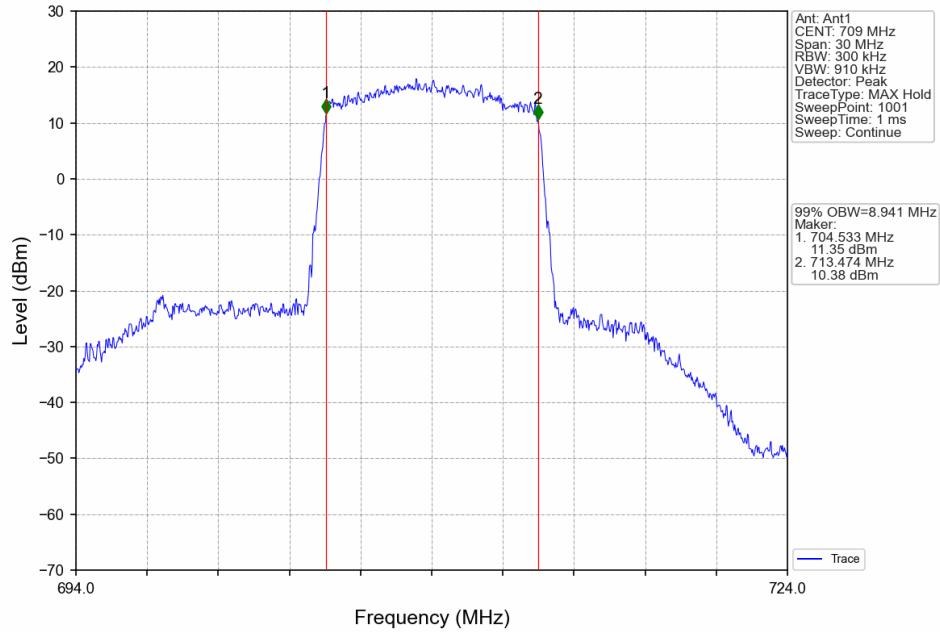
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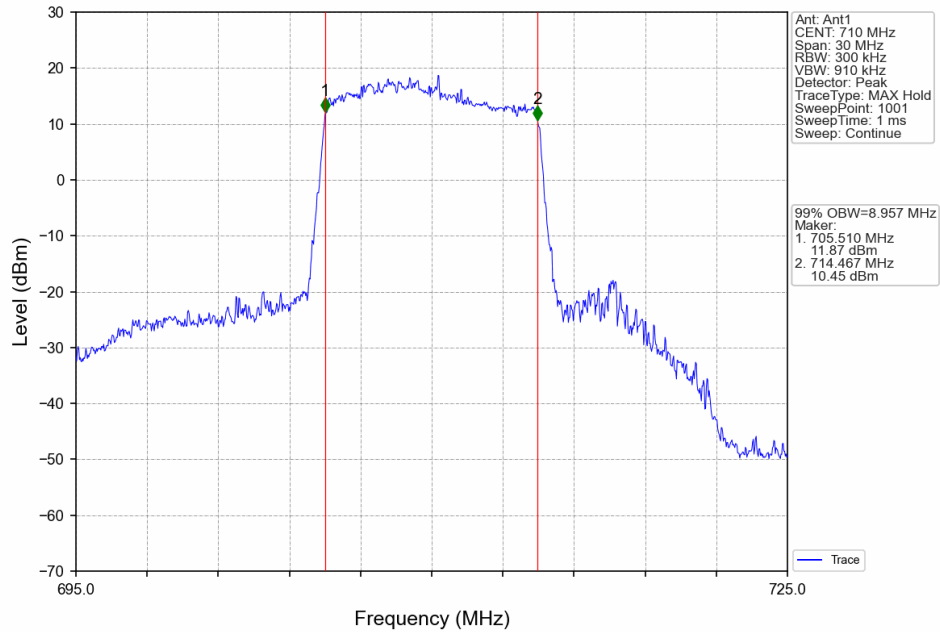
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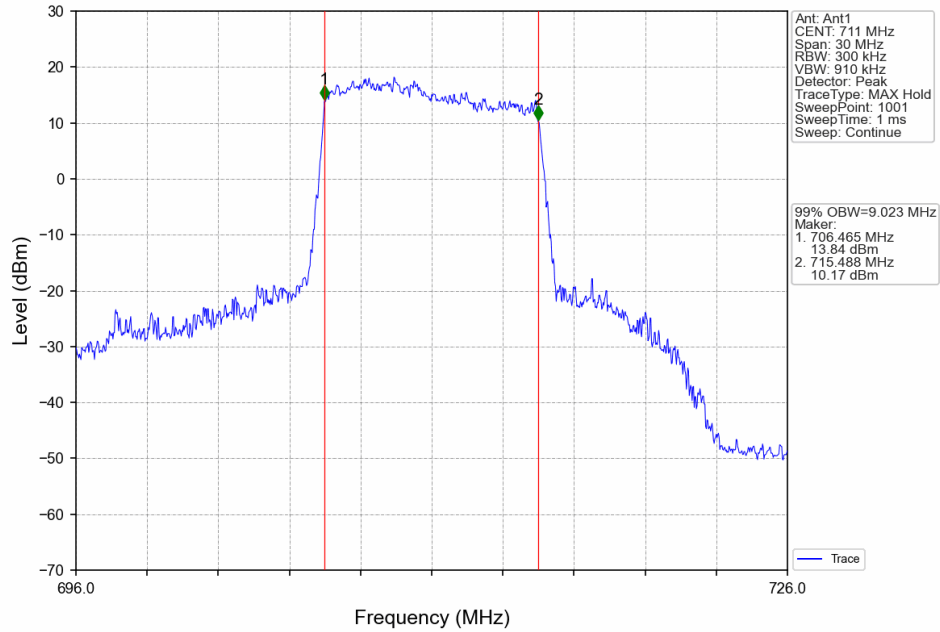
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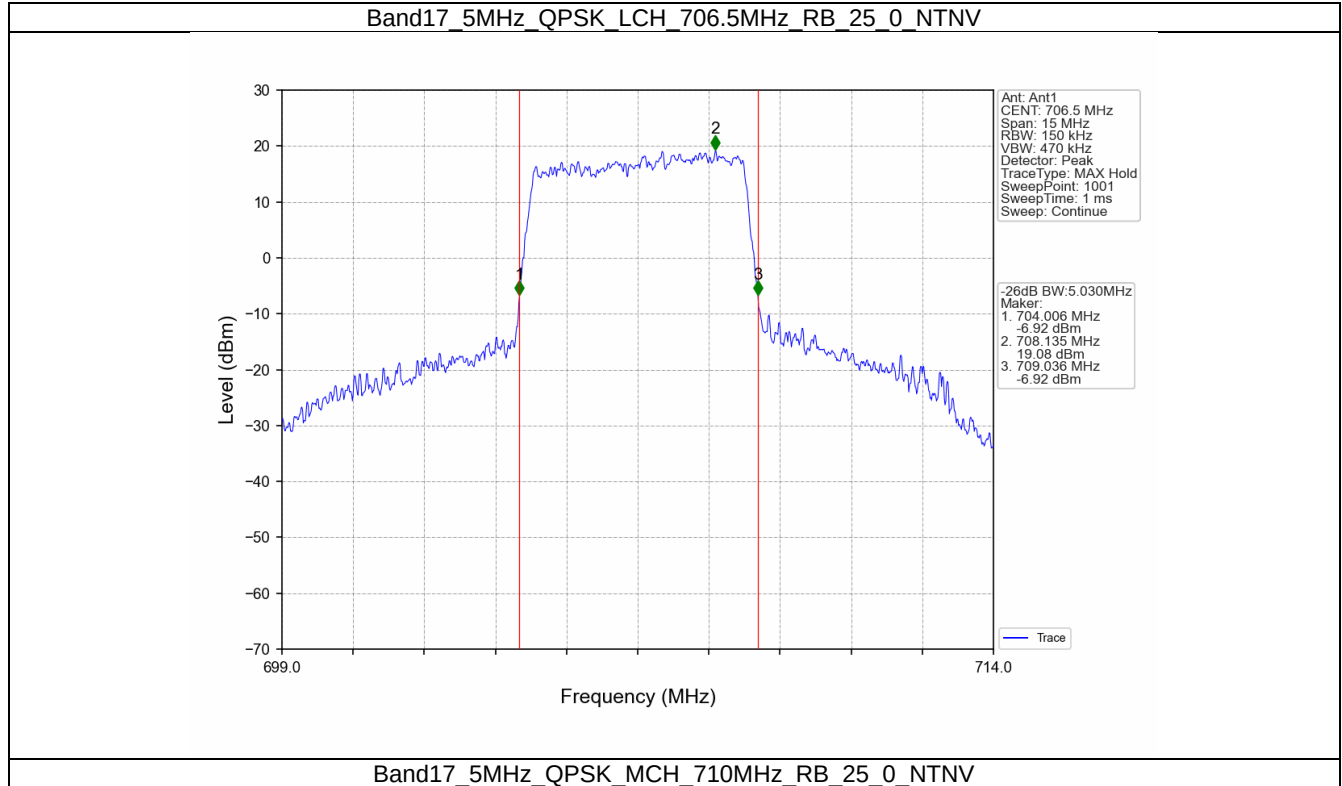
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3.2 Band17_XDB

3.2.2 Test Graph



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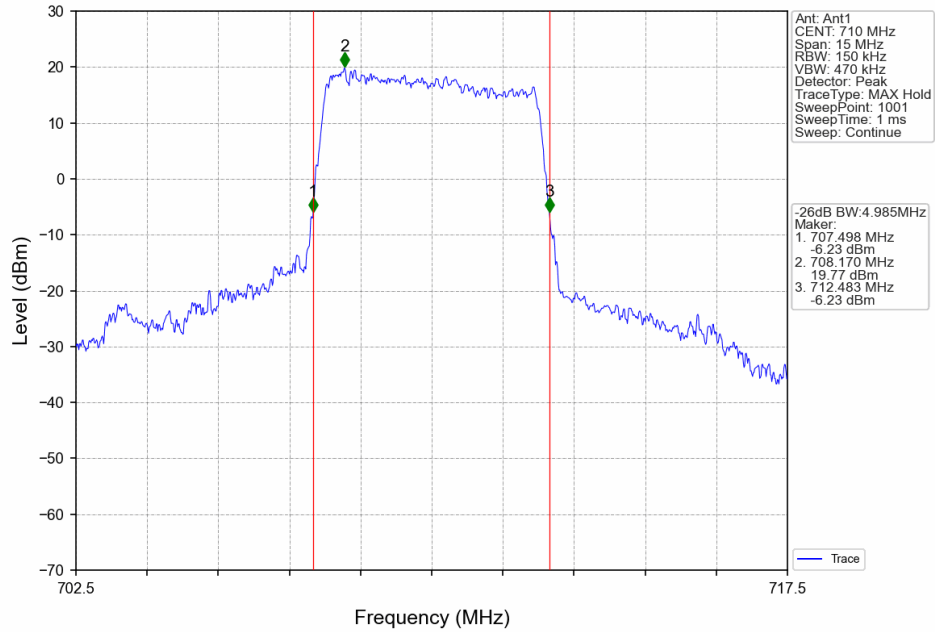
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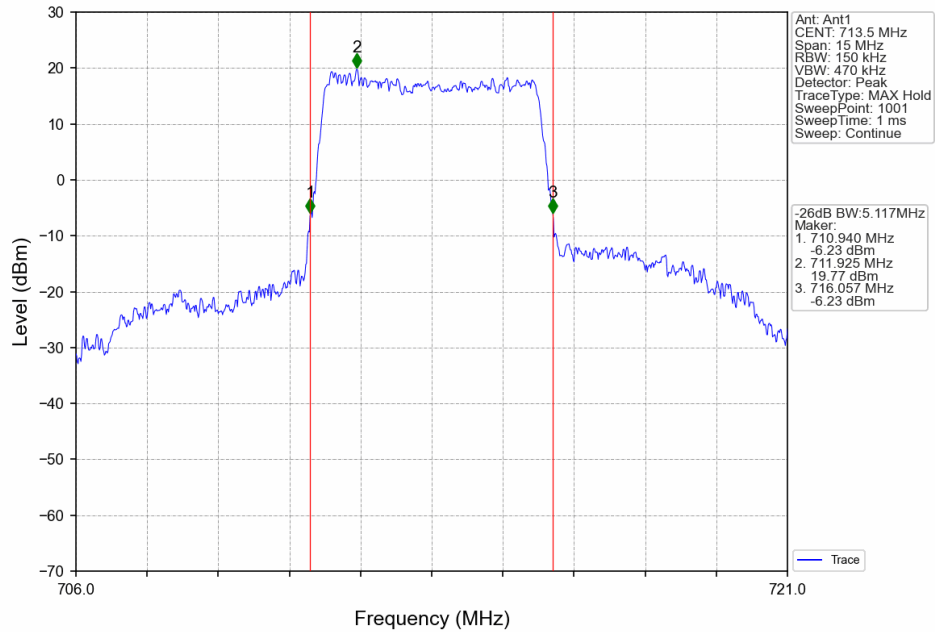
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Band17_5MHz_16QAM_LCH_706.5MHz_RB_25_0_NTNV



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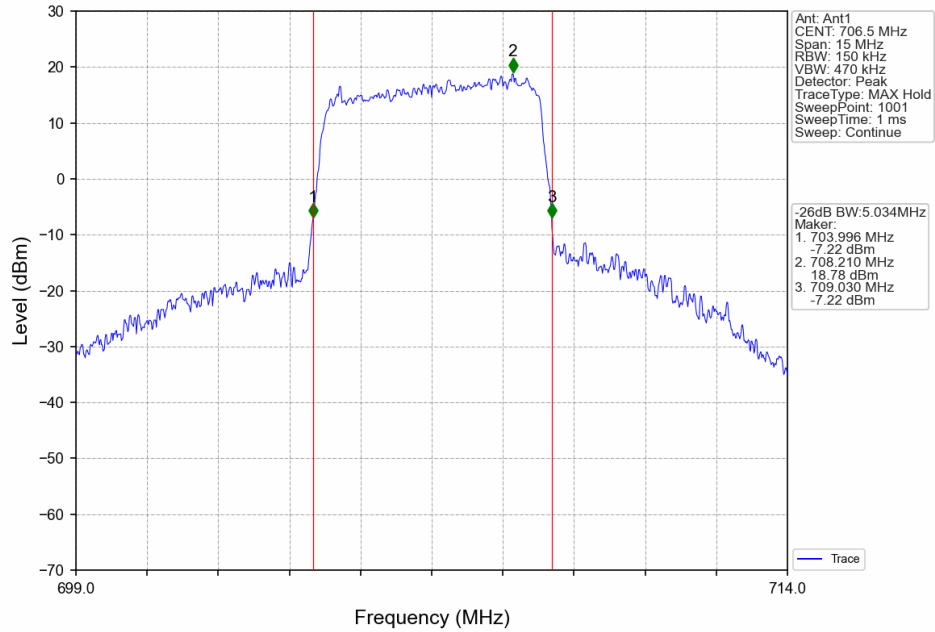
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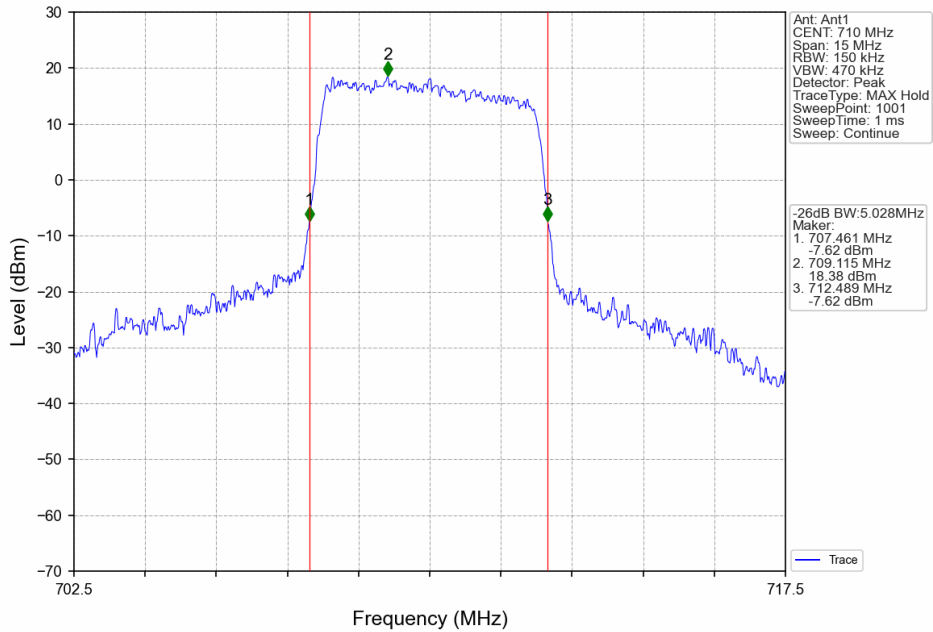
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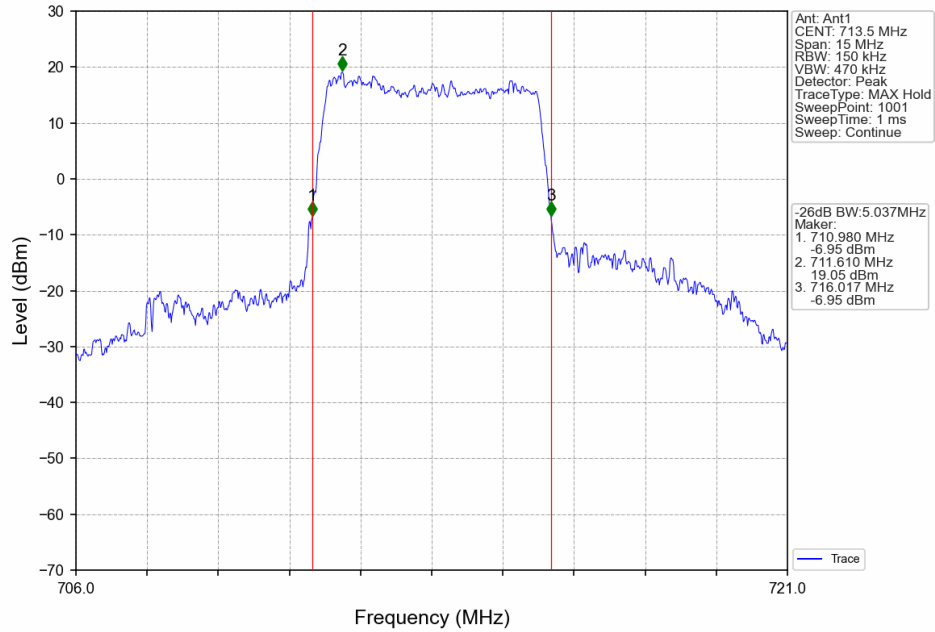
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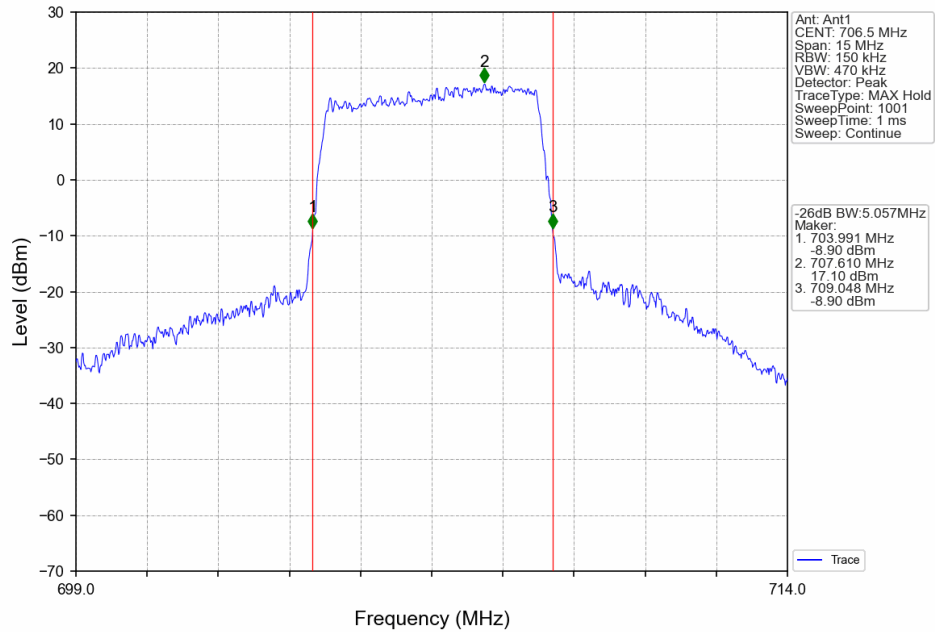
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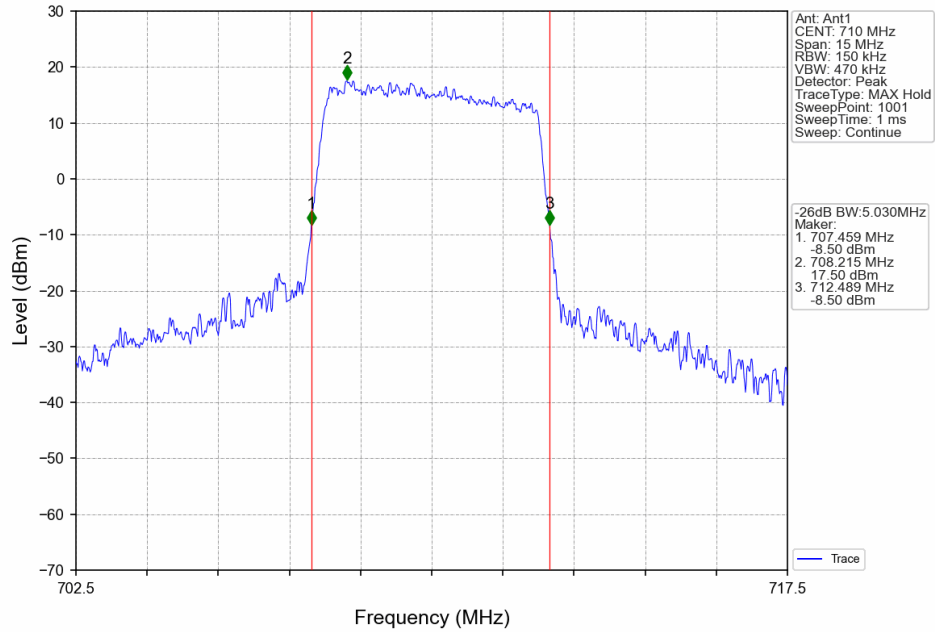
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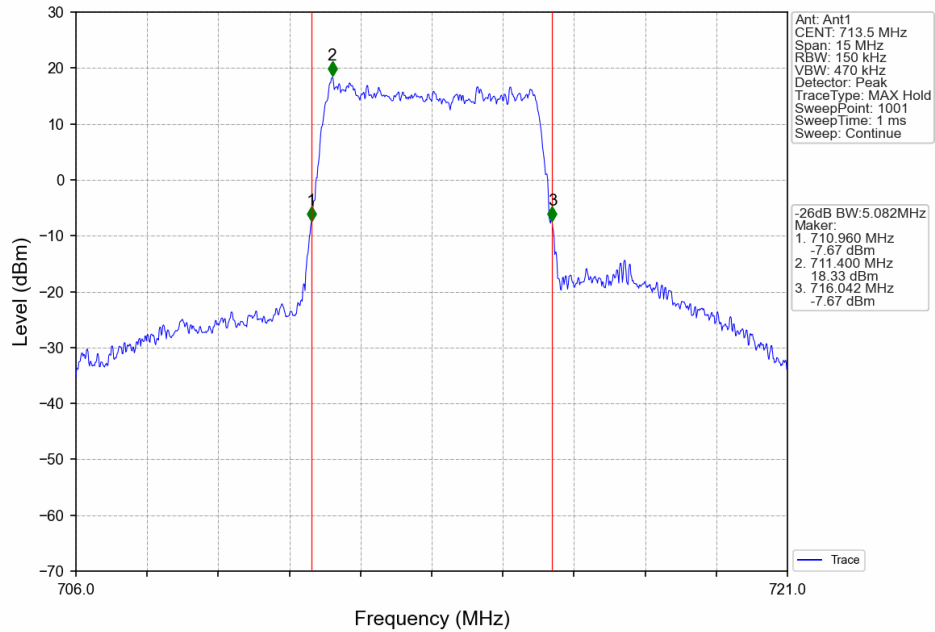
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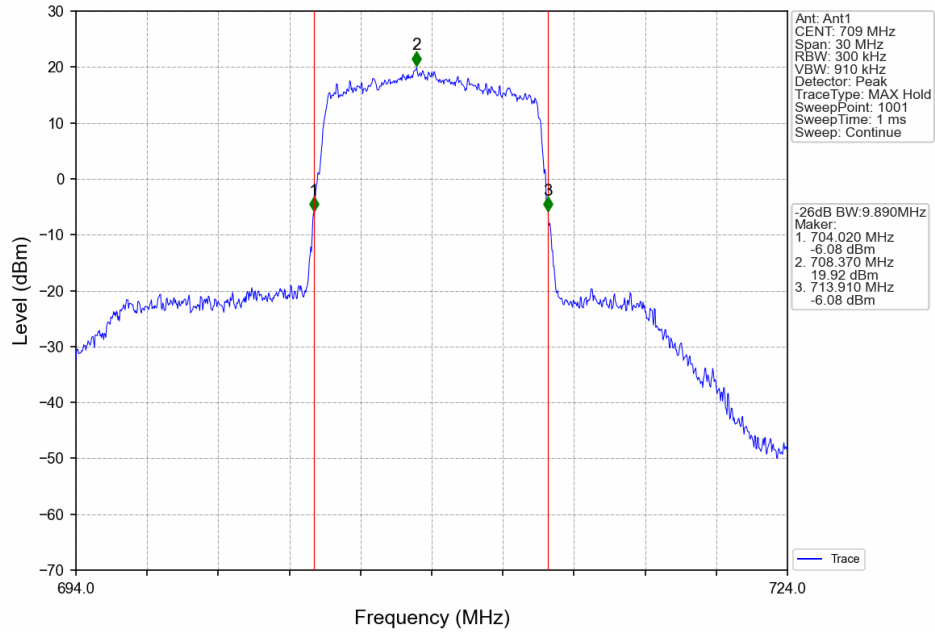
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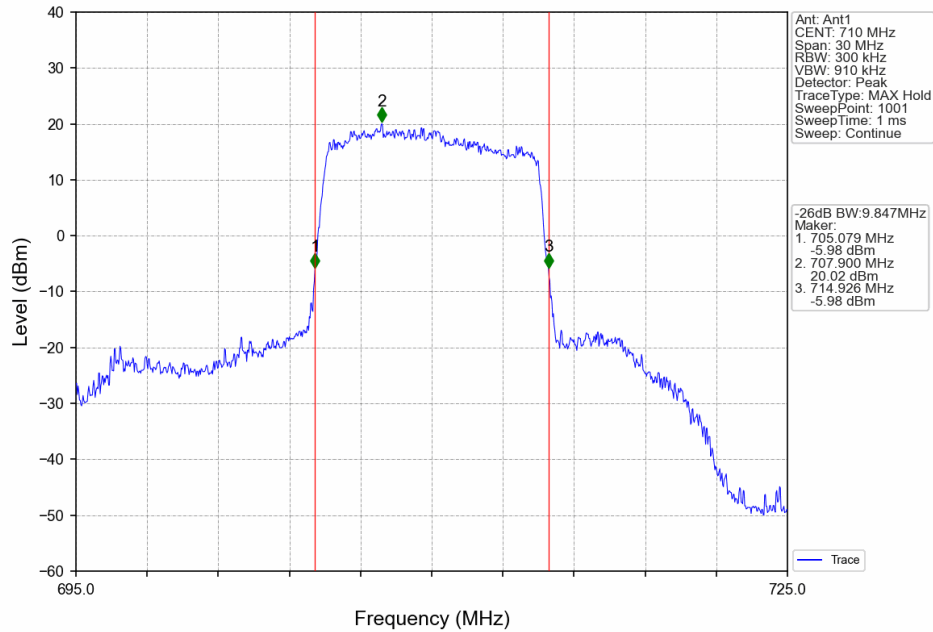
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Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



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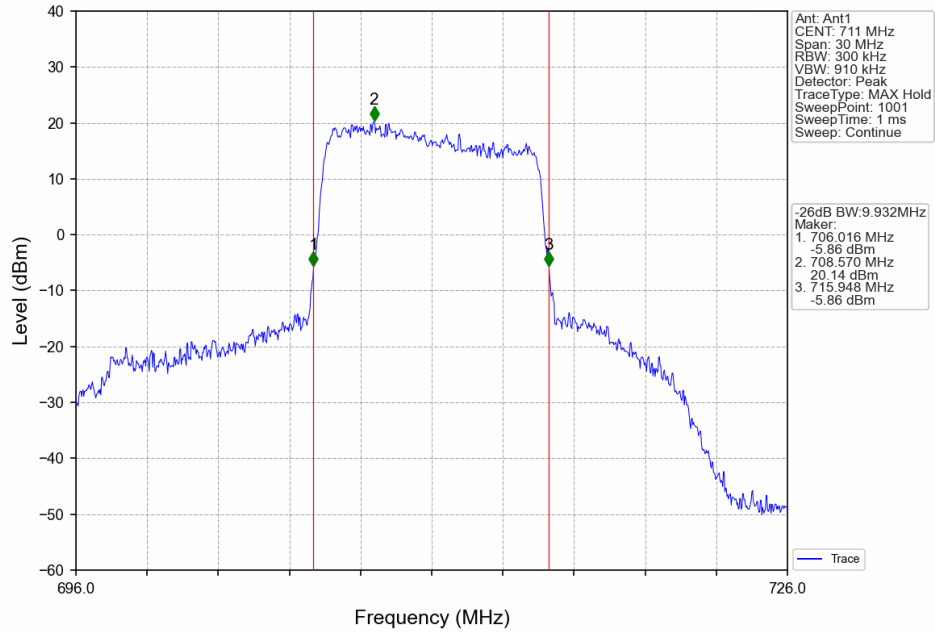
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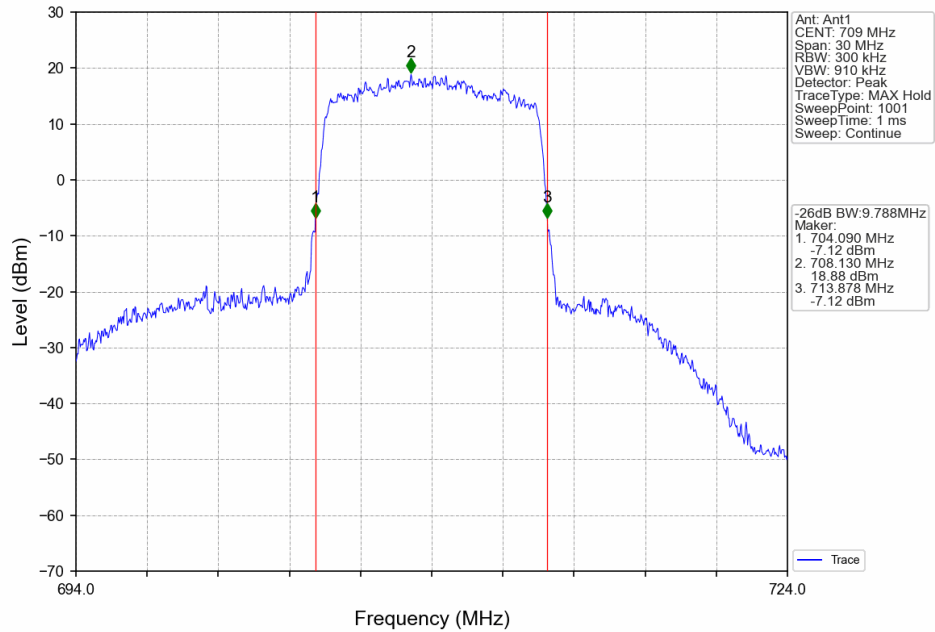
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Band17_10MHz_16QAM_MCH_710MHz_RB_50_0_NTNV



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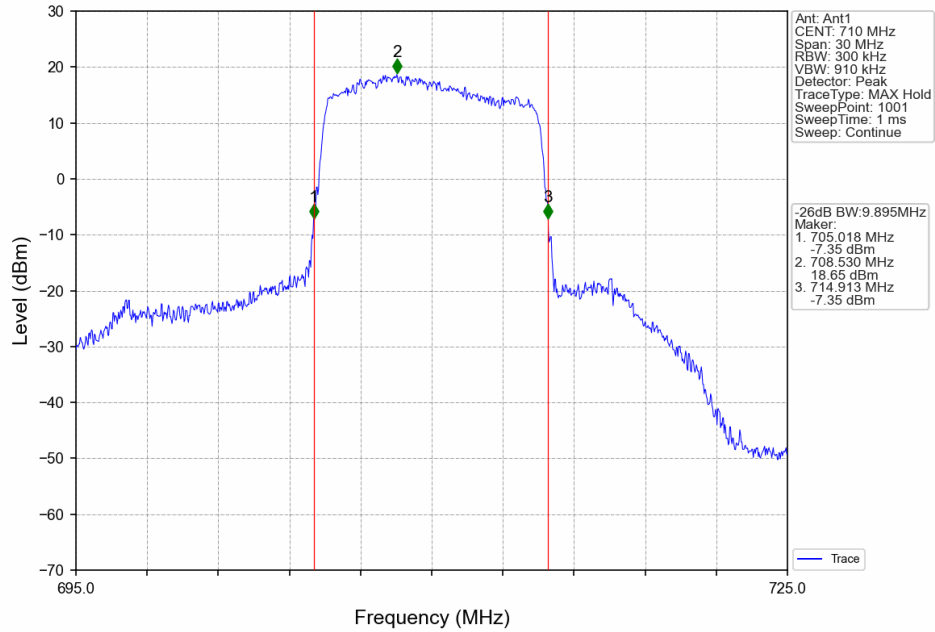
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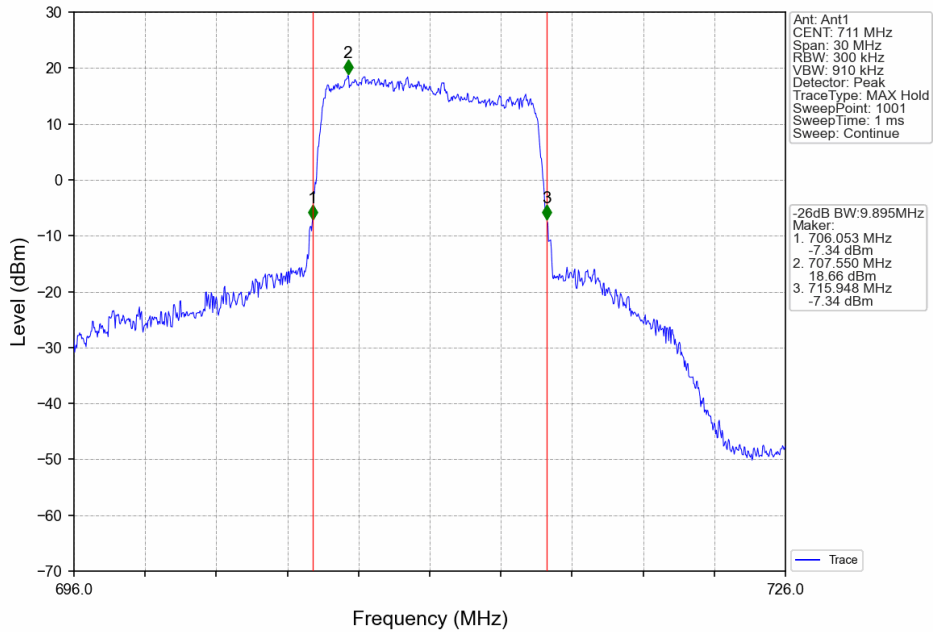
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Band17_10MHz_64QAM_LCH_709MHz_RB_50_0_NTNV



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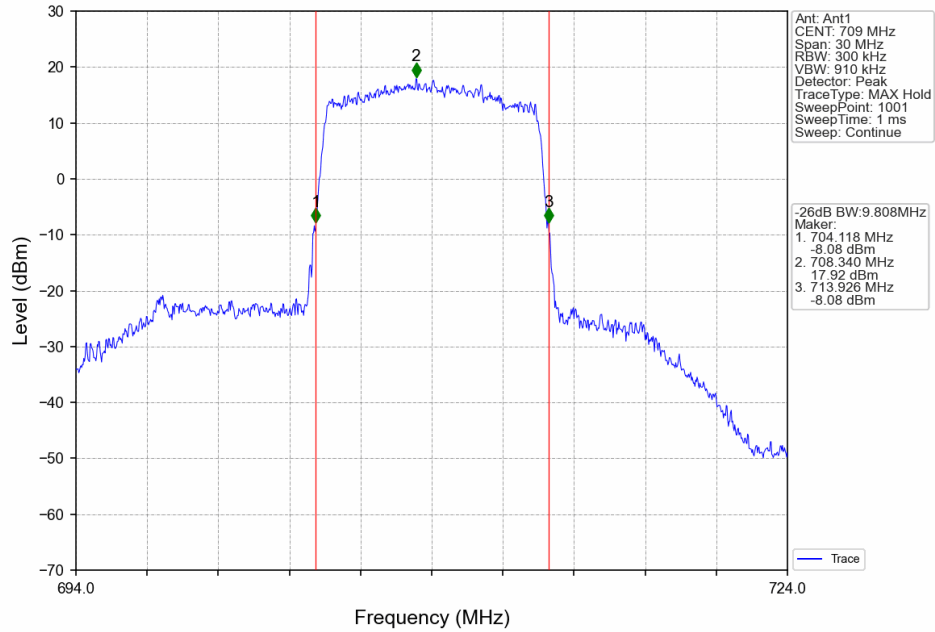
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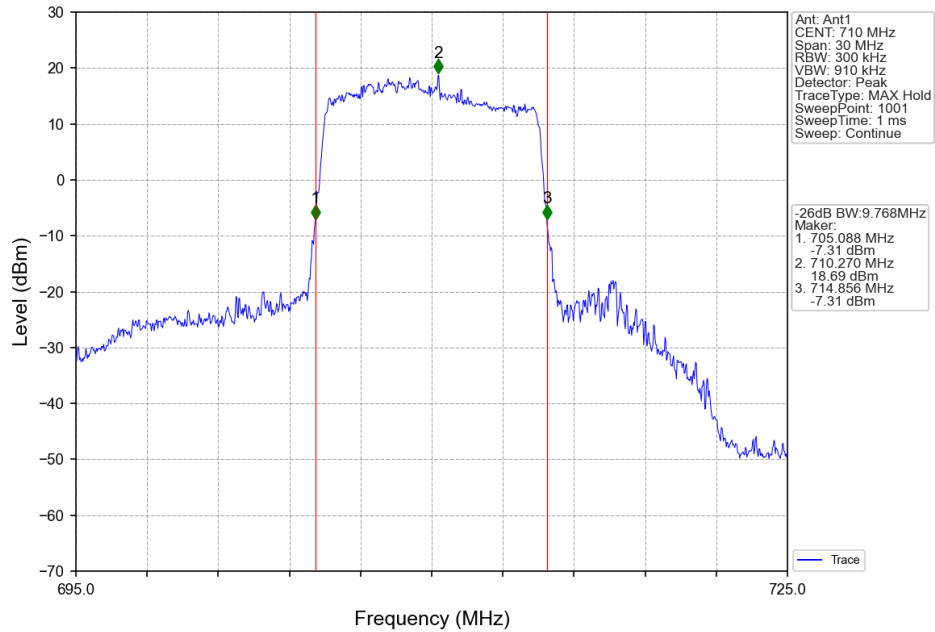
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Band17 10MHz 64QAM MCH 710MHz RB 50 0 NTNV



Band17 10MHz 64QAM HCH 711MHz RB 50 0 NTNV



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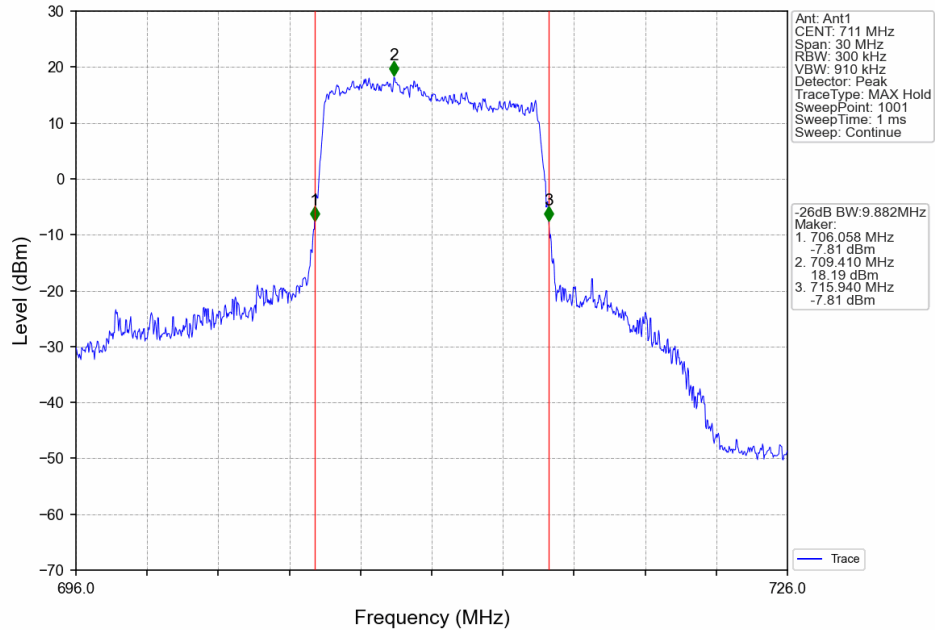
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4. Peak-Average Ratio

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	5.21	<=13	Pass
	710	25	0	5.21	<=13	Pass
	713.5	25	0	5.97	<=13	Pass
16QAM	706.5	25	0	5.89	<=13	Pass
	710	25	0	5.94	<=13	Pass
	713.5	25	0	6.68	<=13	Pass
64QAM	706.5	25	0	6.24	<=13	Pass
	710	25	0	6.27	<=13	Pass
	713.5	25	0	6.91	<=13	Pass

4.2 B17_10MHz

4.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	709	50	0	5.12	<=13	Pass
	710	50	0	5.19	<=13	Pass
	711	50	0	5.27	<=13	Pass
16QAM	709	50	0	5.96	<=13	Pass
	710	50	0	6.02	<=13	Pass
	711	50	0	6.09	<=13	Pass
64QAM	709	50	0	6.24	<=13	Pass
	710	50	0	6.29	<=13	Pass
	711	50	0	6.38	<=13	Pass



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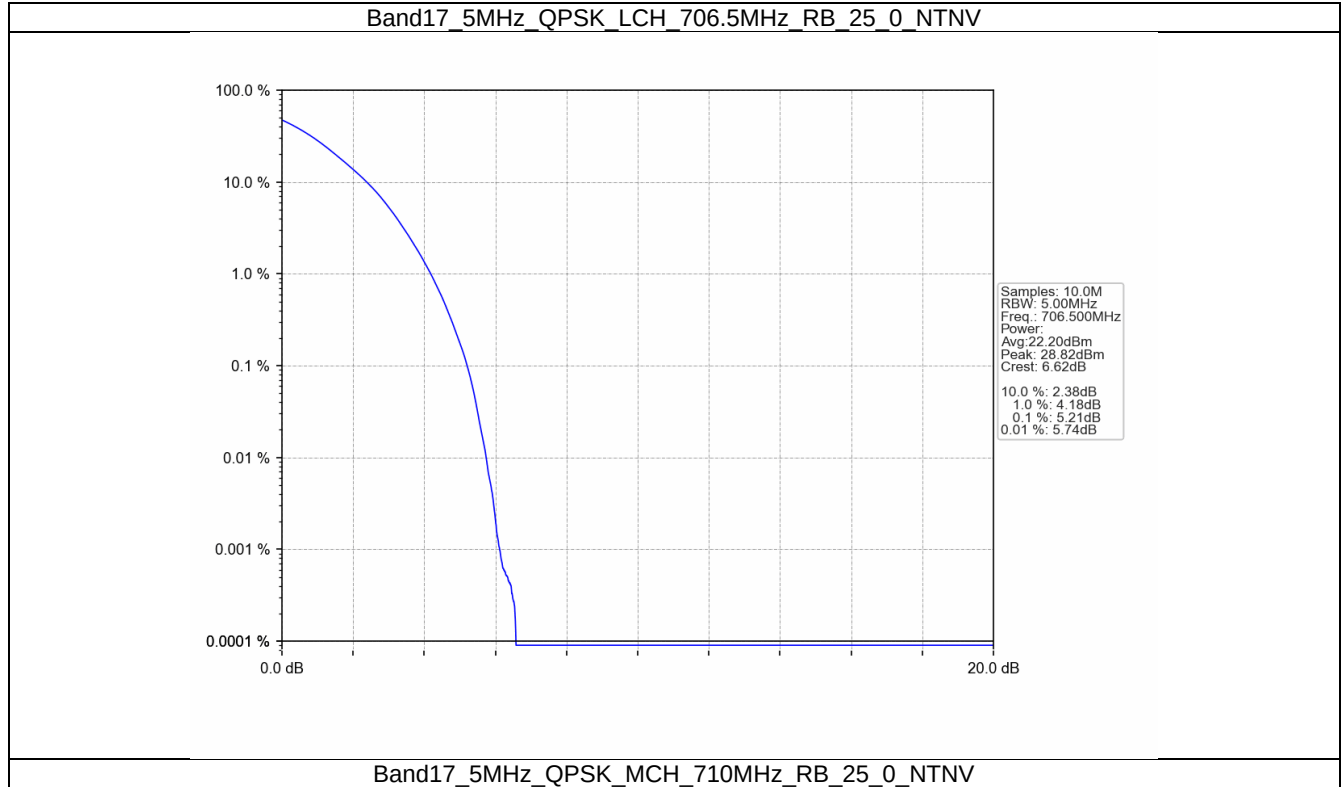
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4.1 B17_5MHz

4.1.2 Test Graph



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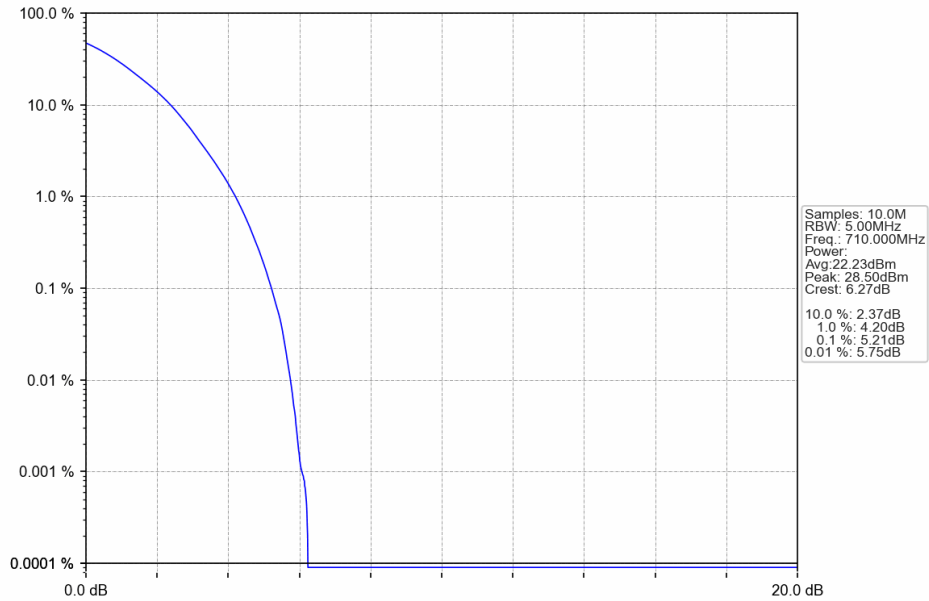
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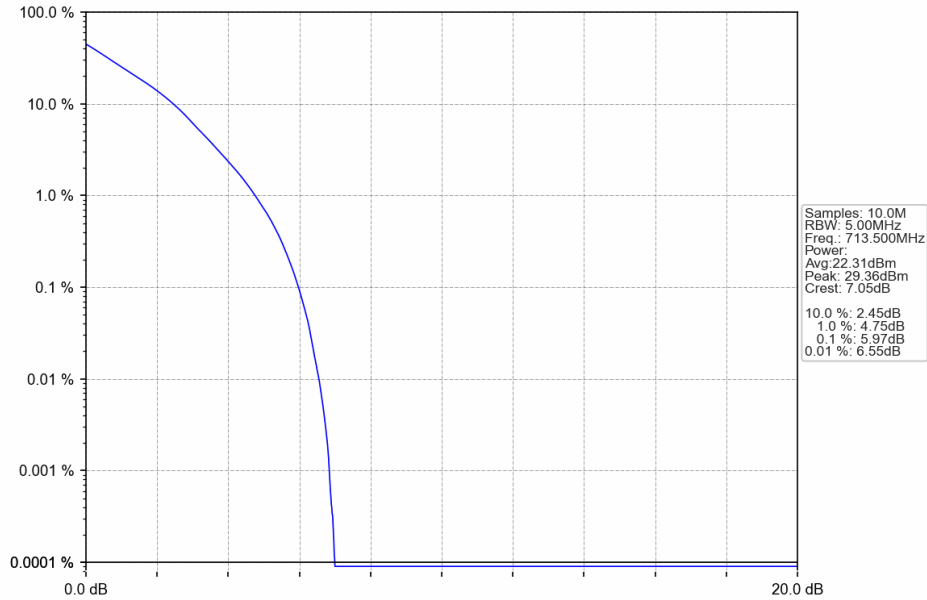
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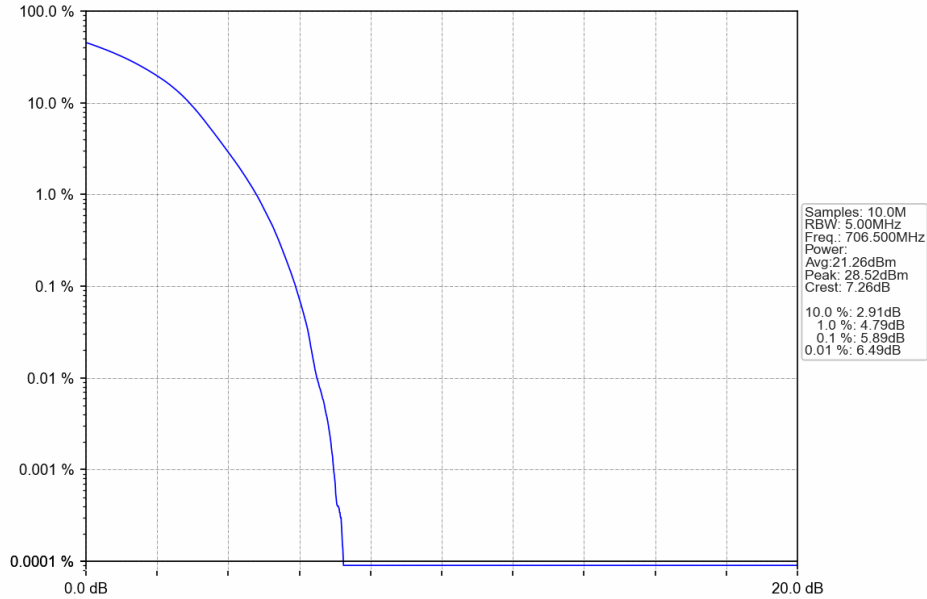
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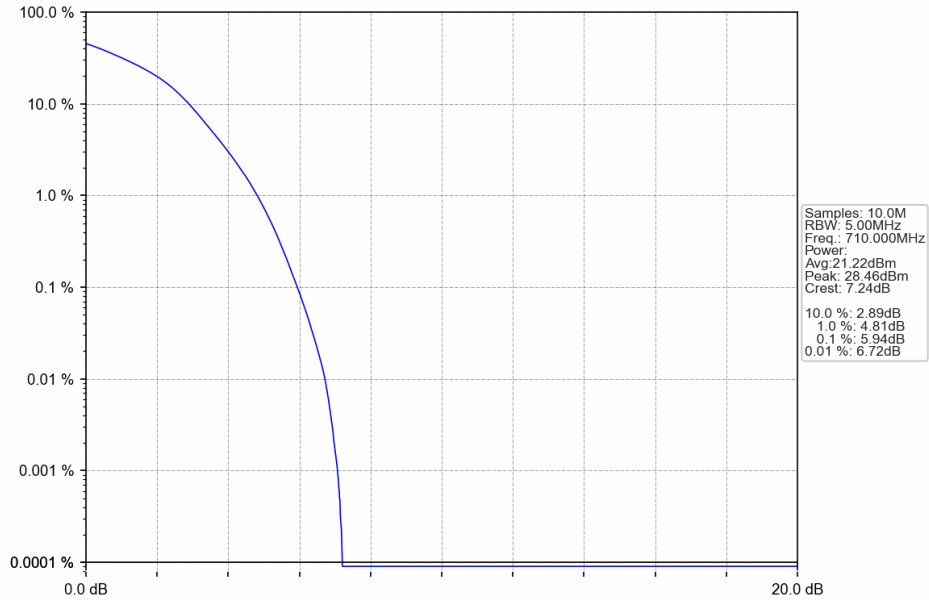
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Band17_5MHz_16QAM_MCH_710MHz_RB_25_0_NTNV



Band17_5MHz_16QAM_HCH_713.5MHz_RB_25_0_NTNV



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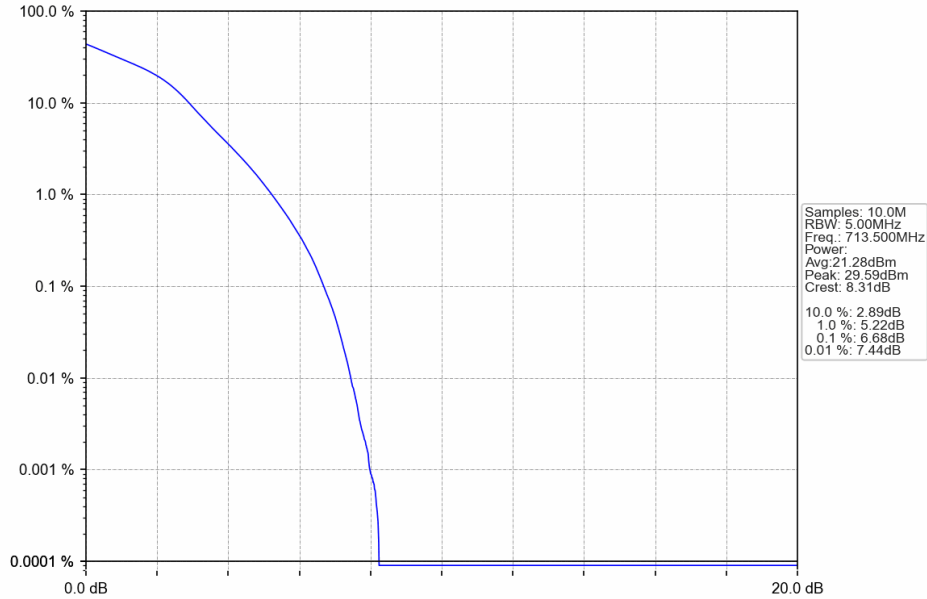
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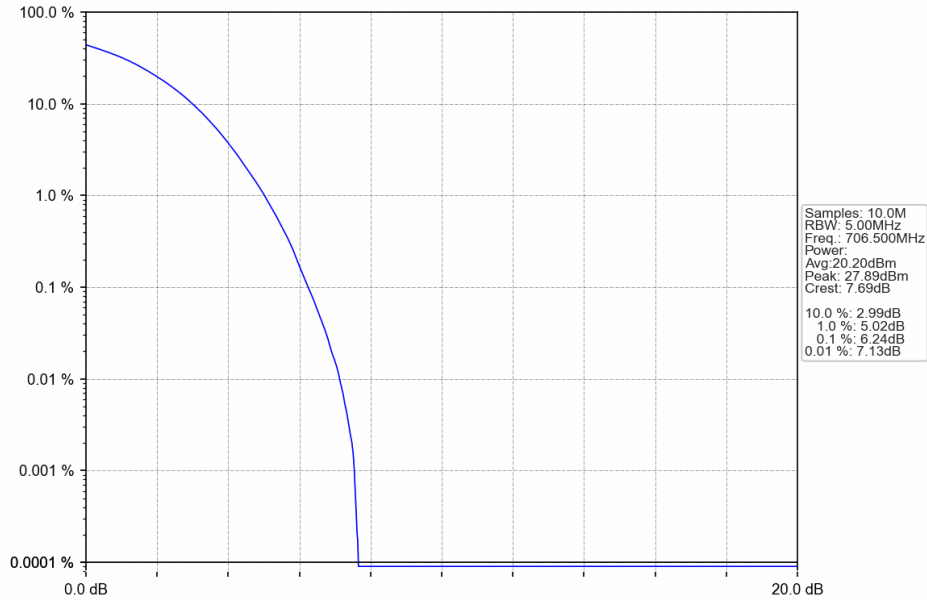
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Band17_5MHz_64QAM_MCH_710MHz_RB_25_0_NTNV



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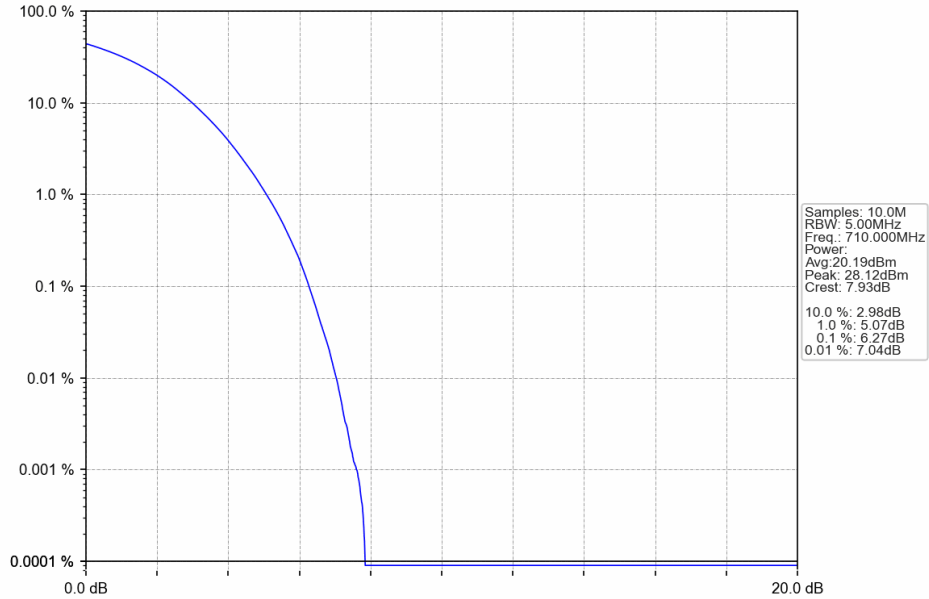
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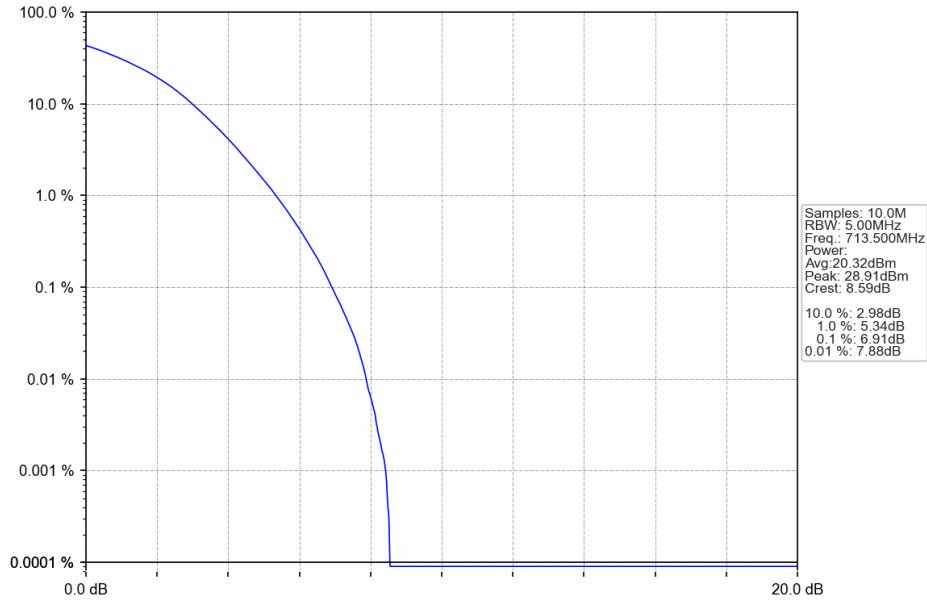
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Band17 5MHz 64QAM HCH 713.5MHz_RB_25_0_NTNV



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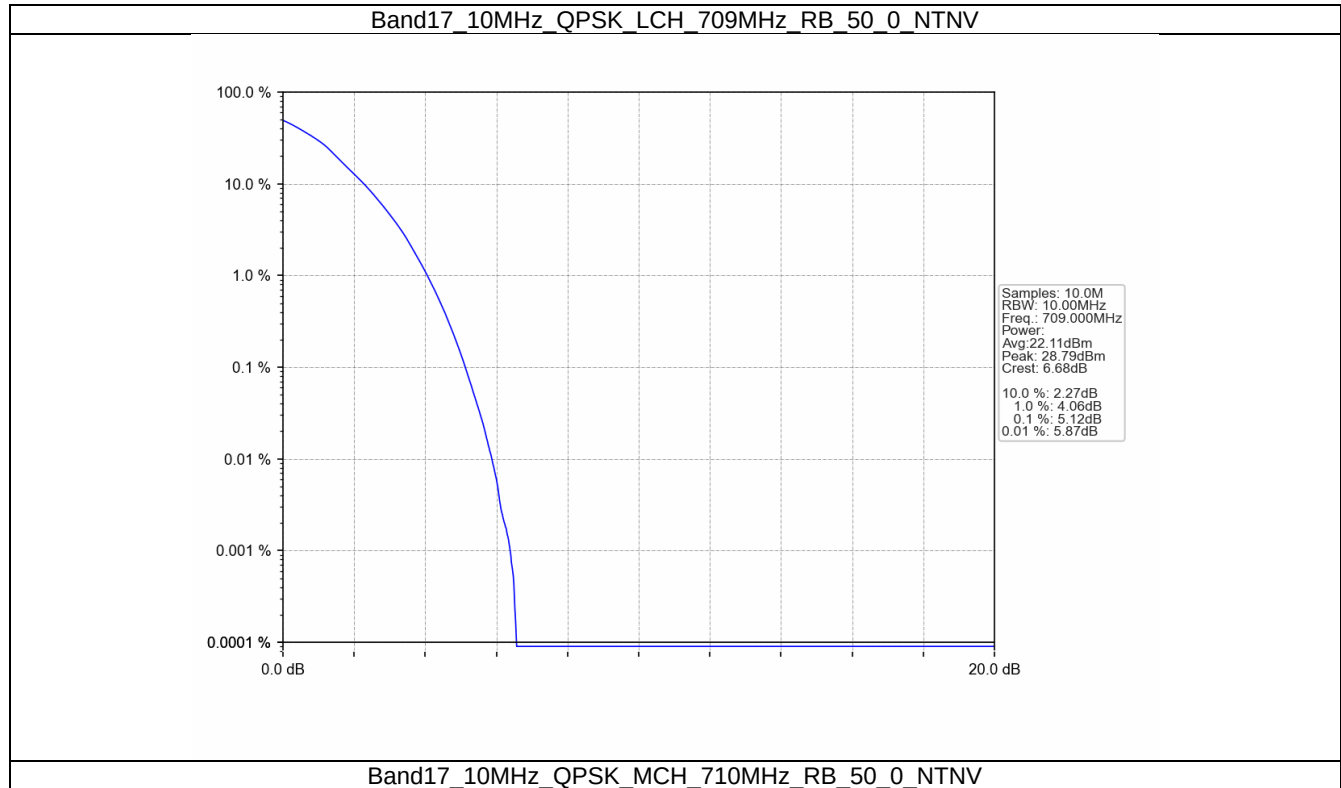
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4.2 B17_10MHz

4.2.2 Test Graph



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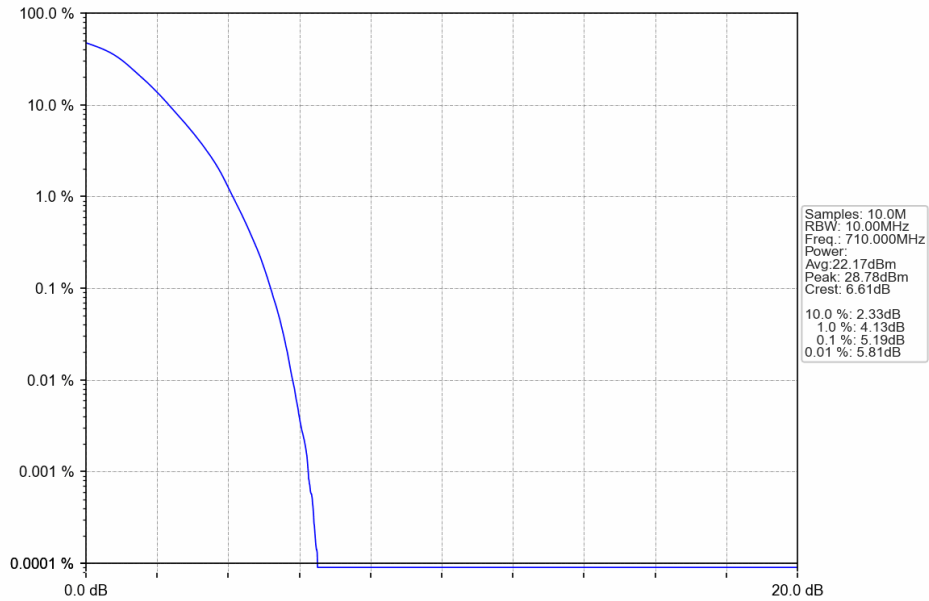
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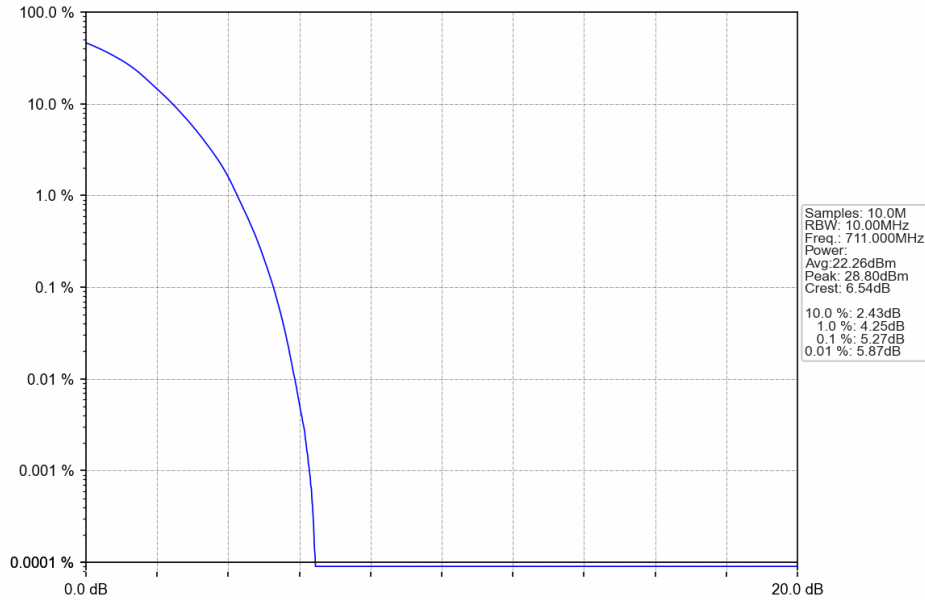
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Band17_10MHz_16QAM_LCH_709MHz_RB_50_0_NTNV



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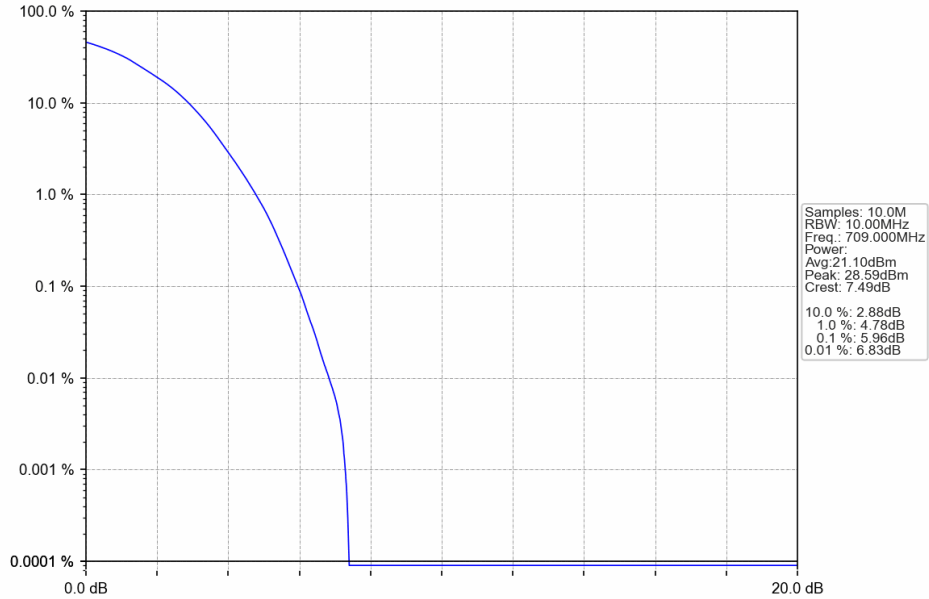
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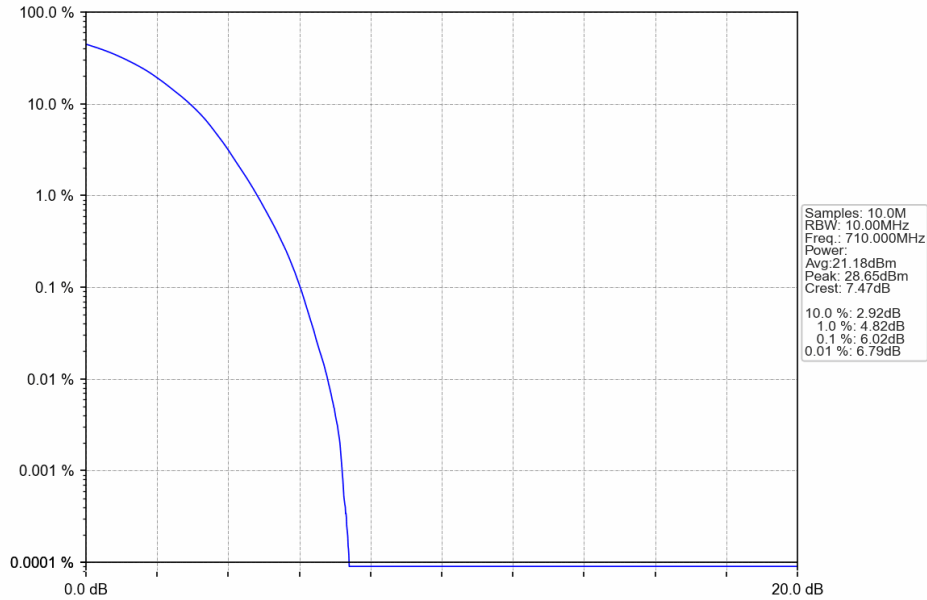
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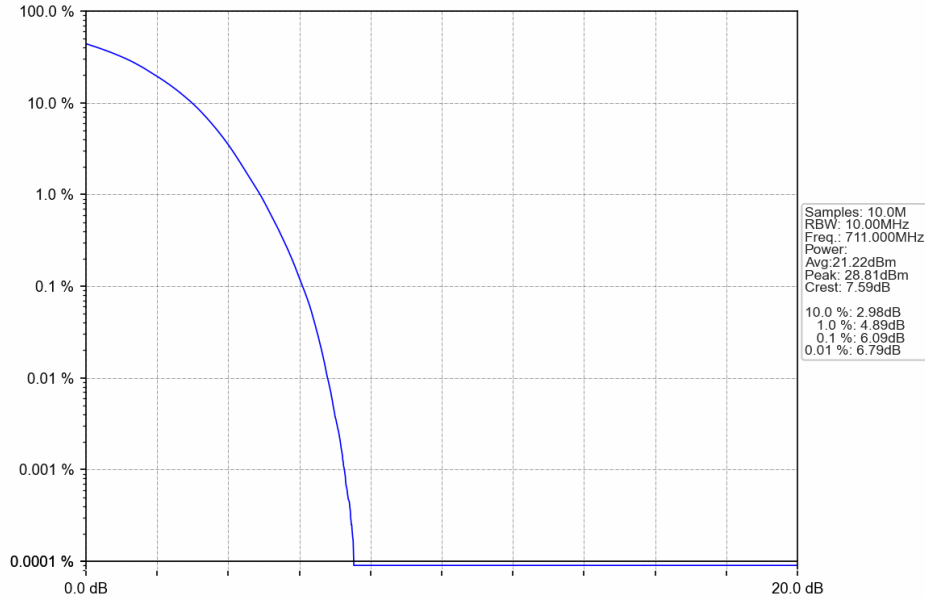
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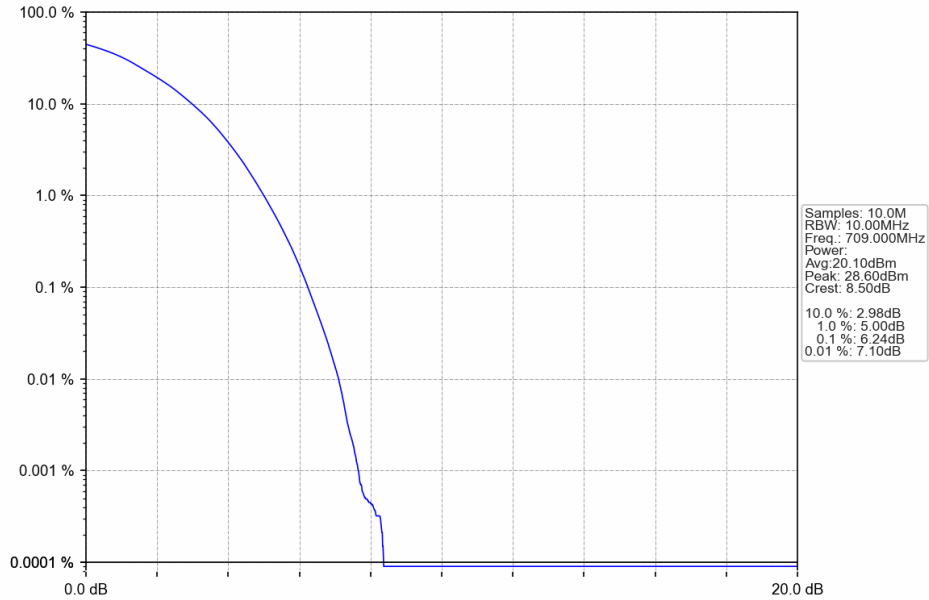
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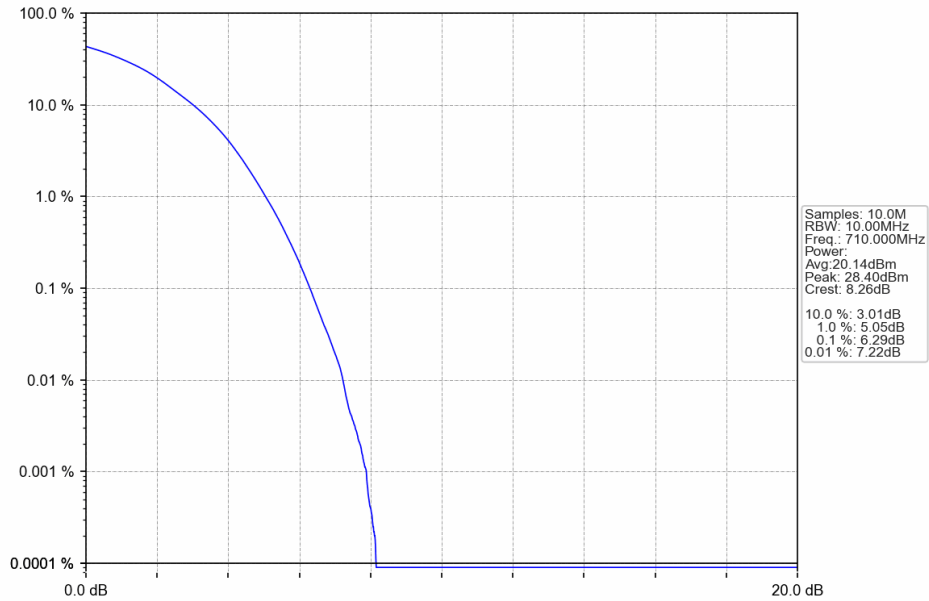
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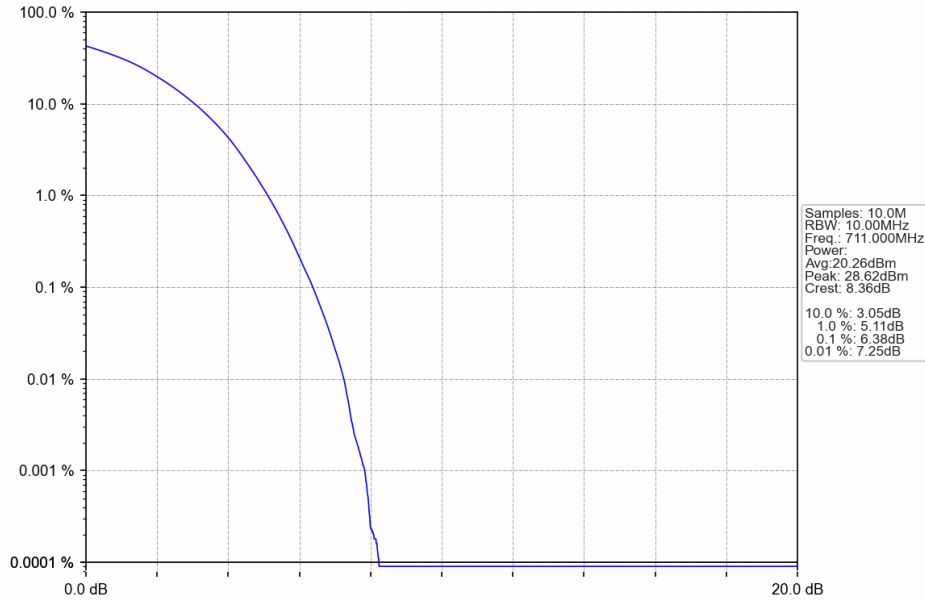
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Band17_10MHz_64QAM_HCH_711MHz_RB_50_0_NTNV



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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	
		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

5.2 B17_10MHz

5.2.1 Test Result

Band: 17 / Bandwidth: 10MHz / NTNV					
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission	
		Size	Offset	Result	Limit
QPSK	709	1	0	Refer To Test Graph	Pass
		50	0	Refer To Test Graph	Pass
	710	1	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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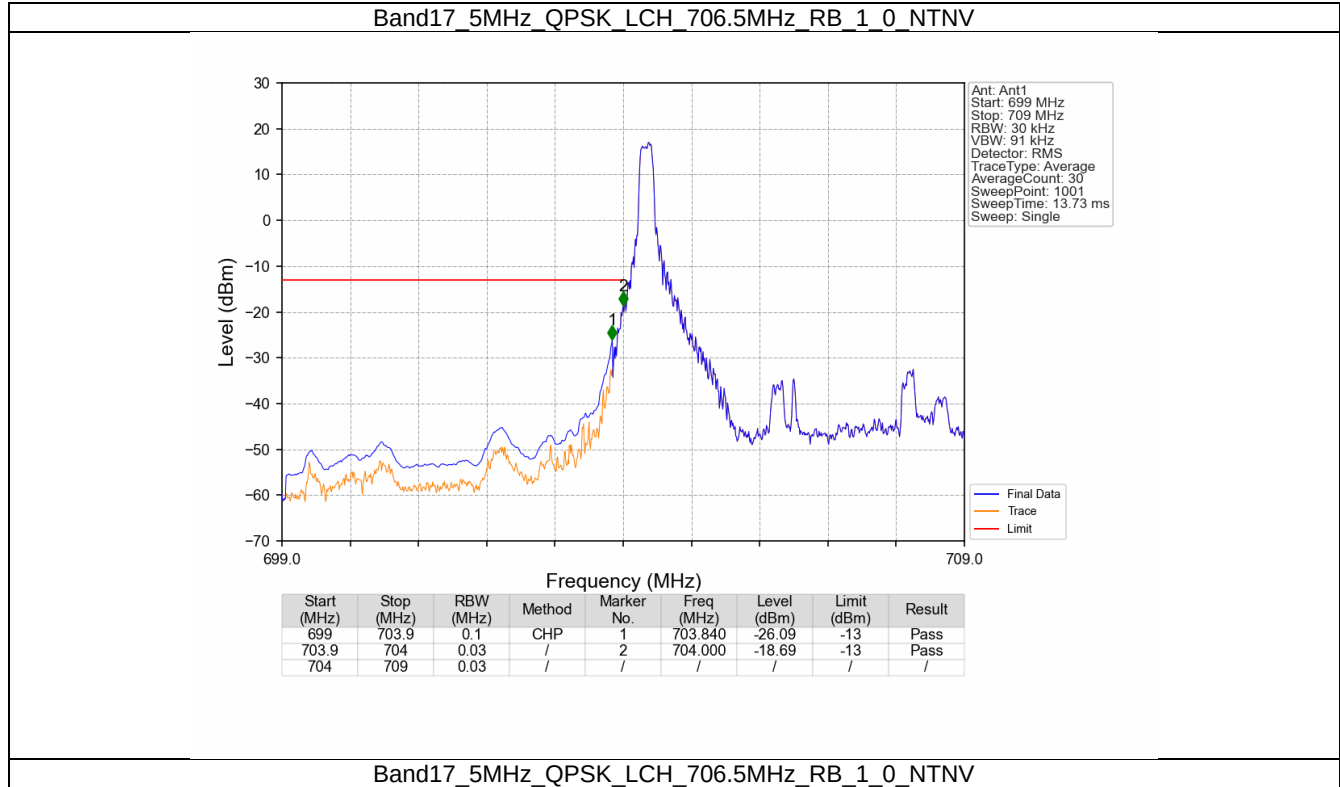
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5.1 B17_5MHz

5.1.2 Test Graph



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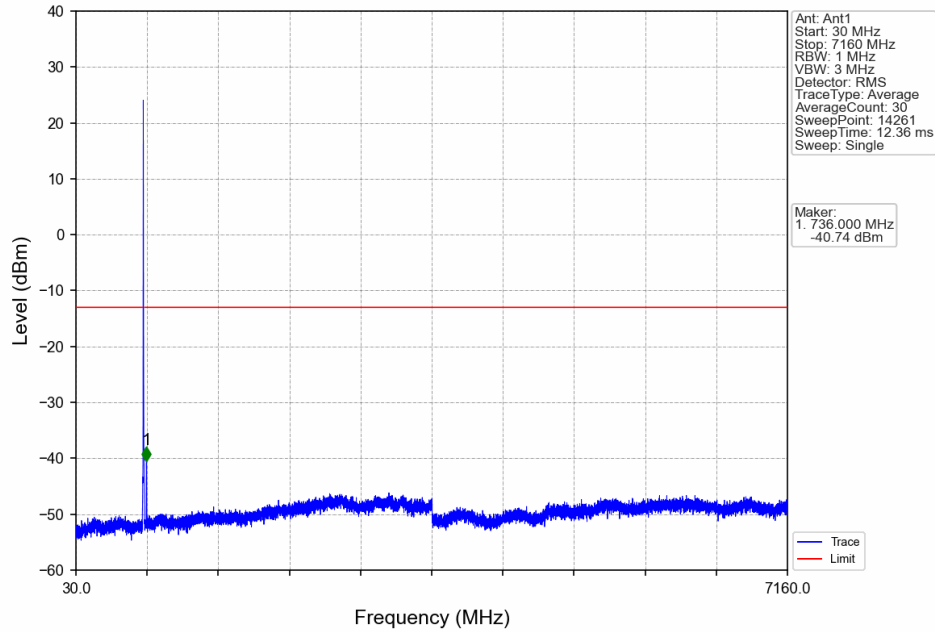
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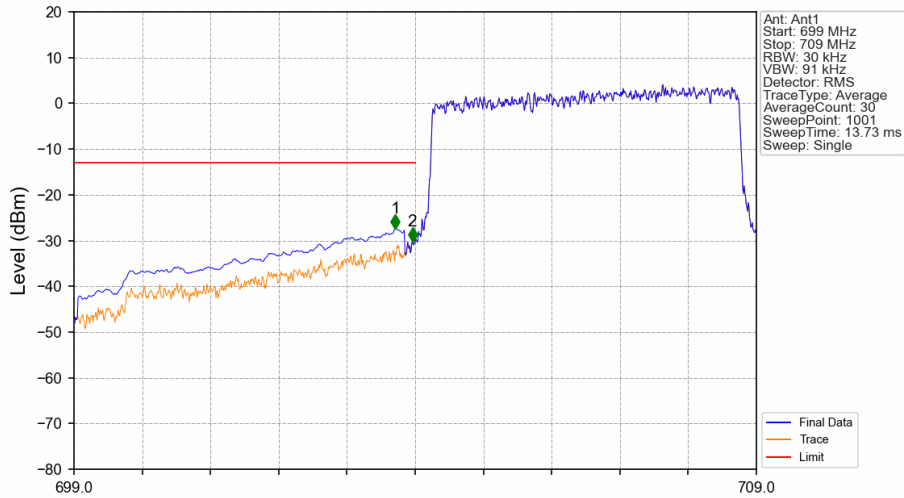
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Band17_5MHz_QPSK_LCH_706.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
699	703.9	0.1	CHP	1	703.710	-27.36	-13	Pass
703.9	704	0.03	/	2	703.960	-30.19	-13	Pass
704	709	0.03	/	/	/	/	/	/

Band17_5MHz_QPSK_MCH_710MHz_RB_1_0_NTNV



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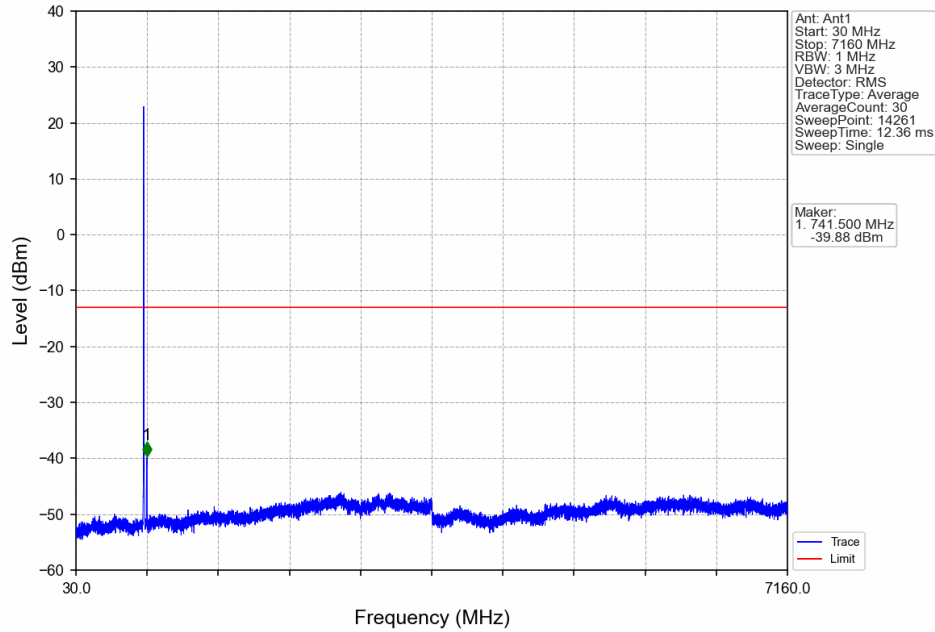
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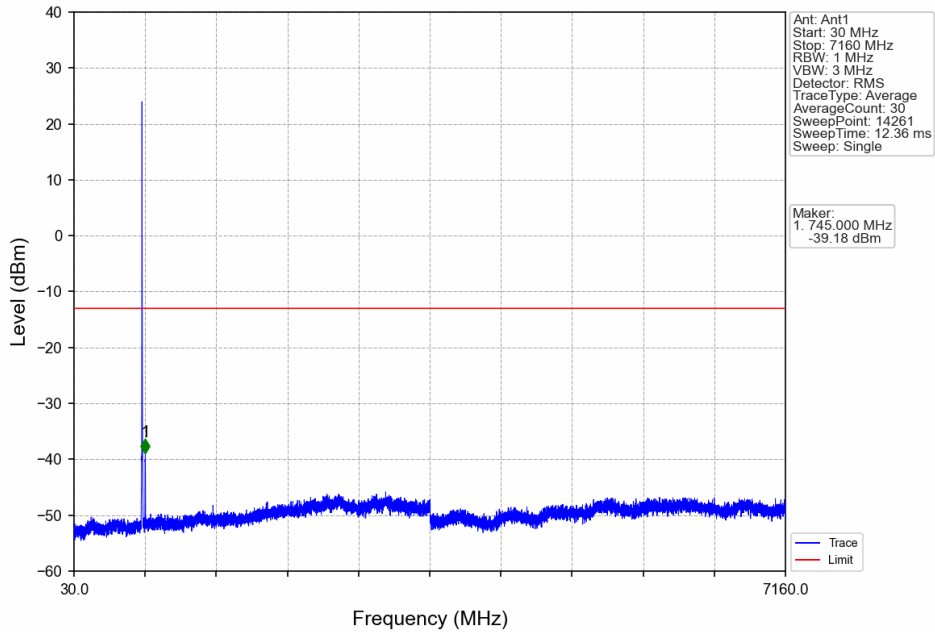
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Band17 5MHz QPSK HCH 713.5MHz RB 1 0 NTN



Band17 5MHz QPSK HCH 713.5MHz RB 1 24 NTN



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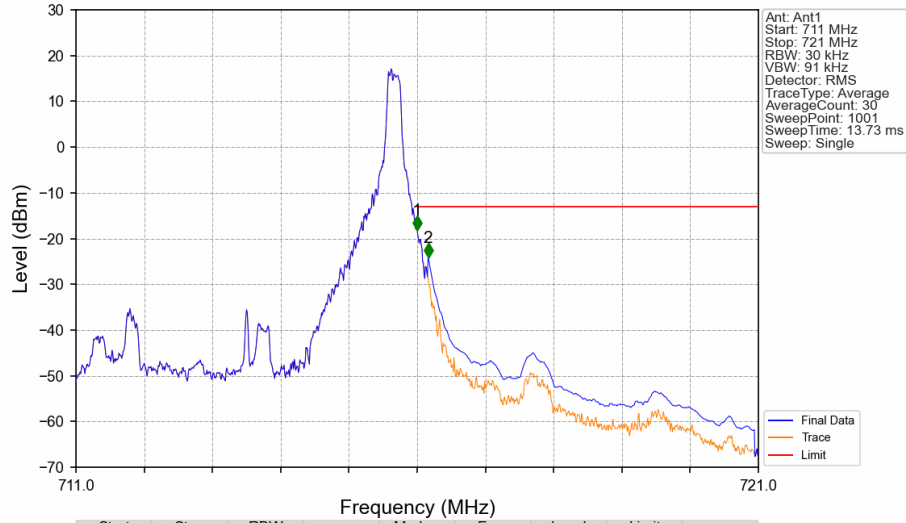
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
711	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.000	-18.17	-13	Pass
716.1	721	0.1	CHP	2	716.160	-24.18	-13	Pass



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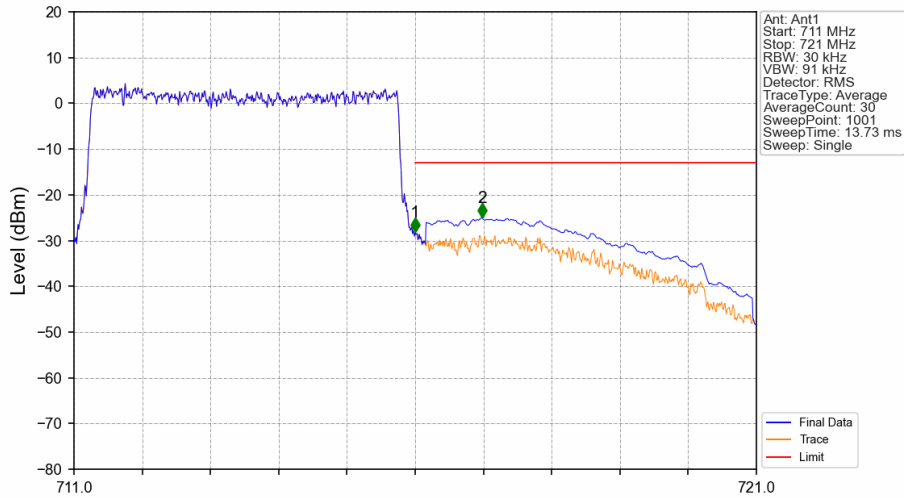
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Band17_5MHz_QPSK_HCH_713.5MHz_RB_25_0_NTNV



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	716.000	-28.11	-13	Pass
716.1	721	0.1	CHP	2	716.980	-24.93	-13	Pass



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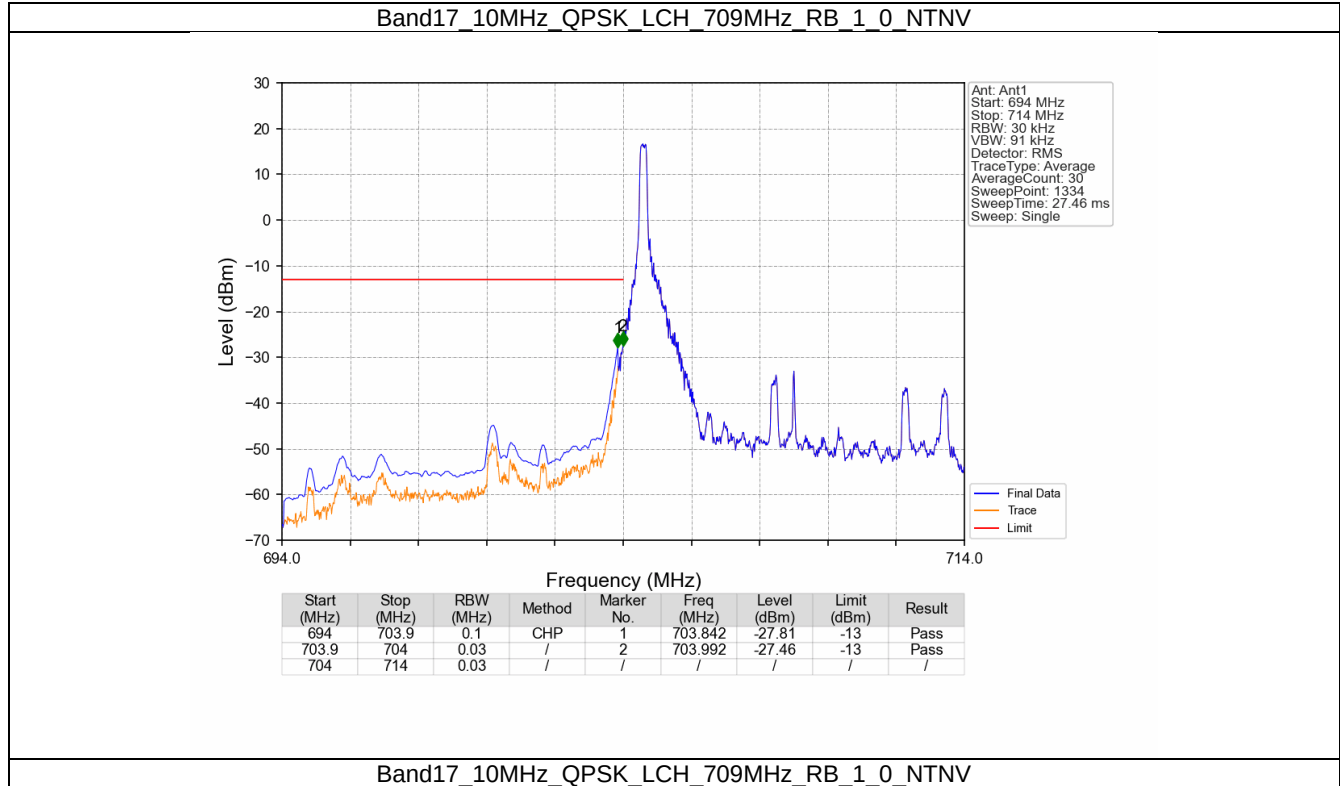
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5.2 B17_10MHz

5.2.2 Test Graph



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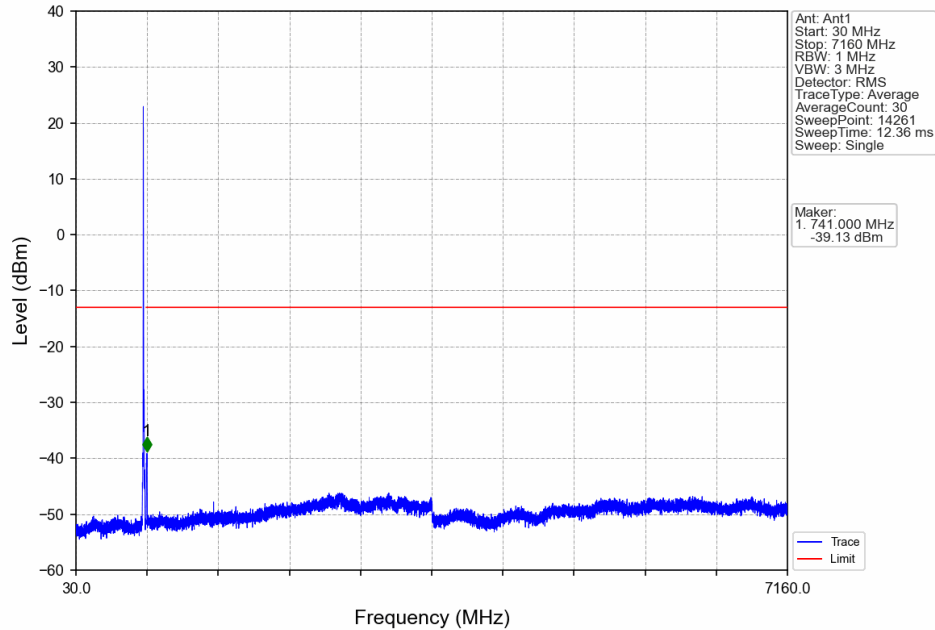
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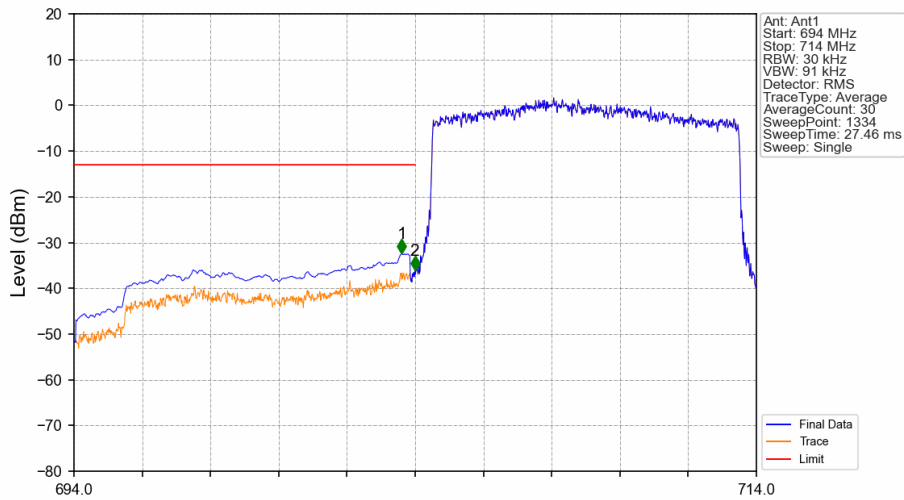
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Band17 10MHz_QPSK_LCH_709MHz_RB_50_0 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
694	703.9	0.1	CHP	1	703.602	-32.37	-13	Pass
703.9	704	0.03	/	2	703.992	-36.05	-13	Pass
704	714	0.03	/	/	/	/	/	/

Band17 10MHz_QPSK_MCH_710MHz_RB_1_0 NTN



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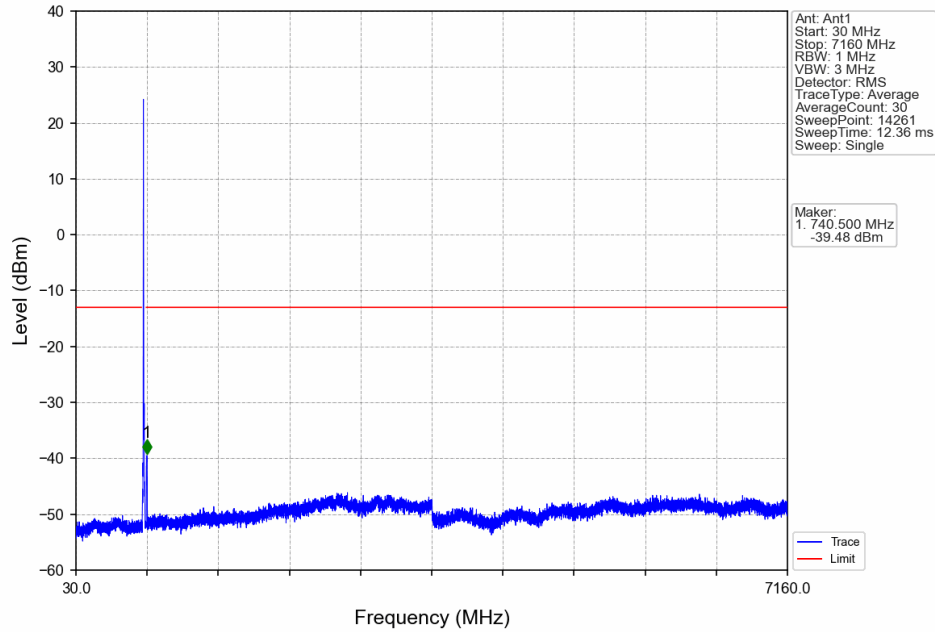
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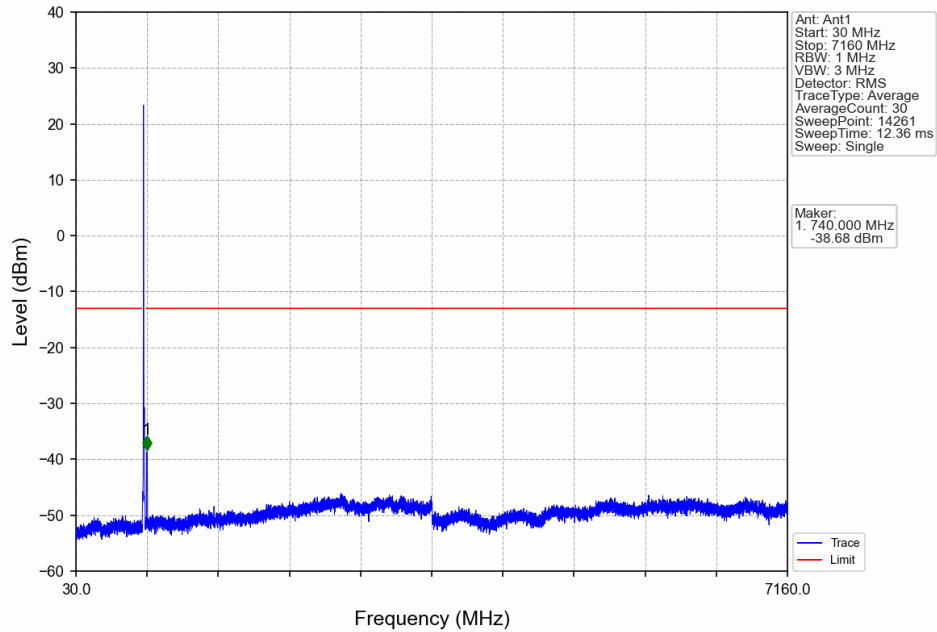
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Band17_10MHz_QPSK_HCH_711MHz_RB_1_0_NTNV



Band17_10MHz_QPSK_HCH_711MHz_RB_1_49_NTNV



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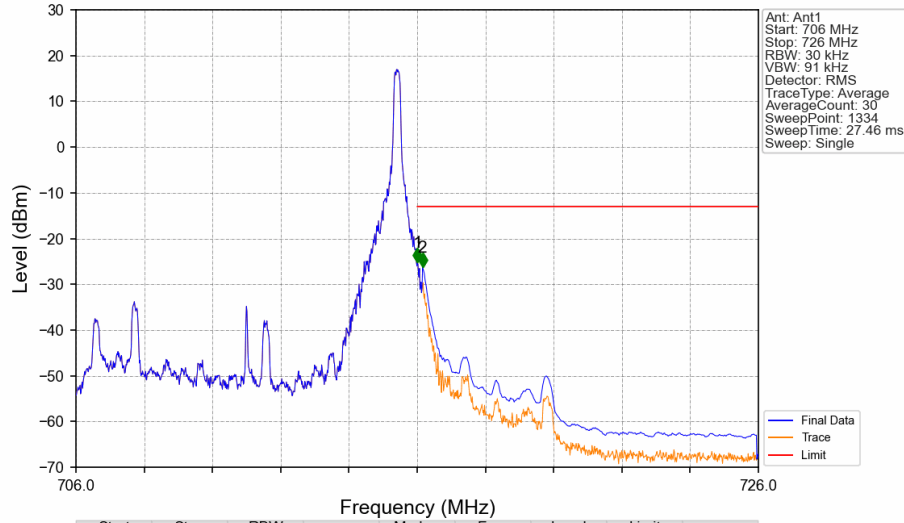
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
706	716	0.03	/	/	/	/	/	/
716	716.1	0.03	/	1	716.008	-25.27	-13	Pass
716.1	726	0.1	CHP	2	716.158	-26.30	-13	Pass



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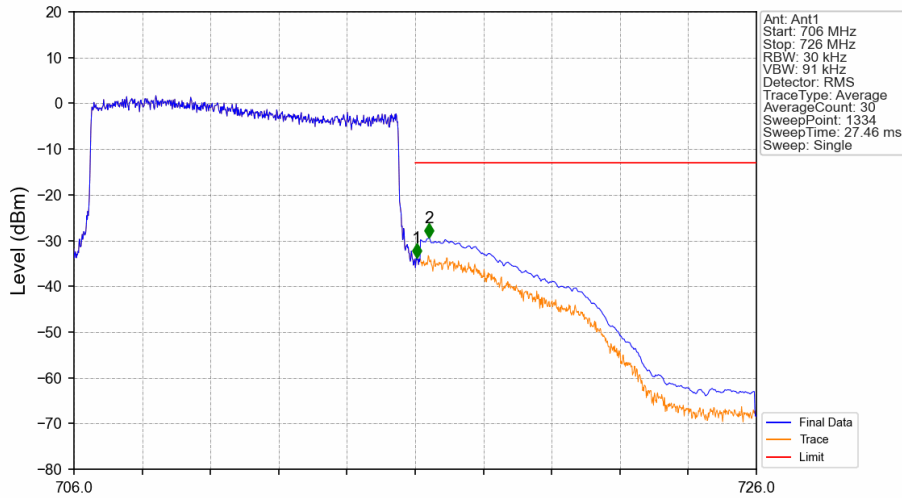
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Band17_10MHz_QPSK_HCH_711MHz_RB_50_0_NTNV



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	716.038	-33.80	-13	Pass
716.1	726	0.1	CHP	2	716.398	-29.46	-13	Pass



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6. Field Strength of Spurious Radiation

Test Band = LTE_17
Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2114	103.30	-52.13	27.47	-16.62	-13.00	3.62	Horizontal
2	3523	81.44	-49.24	29.94	-33.12	-13.00	20.12	Horizontal
3	4227.5	71.70	-47.33	31.83	-39.06	-13.00	26.06	Horizontal
4	4932	67.19	-44.42	33.16	-39.33	-13.00	26.33	Horizontal
5	6341	78.55	-43.94	34.78	-25.87	-13.00	12.87	Horizontal
6	8454.5	56.19	-41.97	37.99	-43.05	-13.00	30.05	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2114	97.12	-52.13	27.47	-22.80	-13.00	9.80	Vertical
2	3523	77.08	-49.24	29.94	-37.48	-13.00	24.48	Vertical
3	4227.5	58.00	-47.33	31.83	-52.76	-13.00	39.76	Vertical
4	4932	62.16	-44.42	33.16	-44.36	-13.00	31.36	Vertical
5	6341	57.15	-43.94	34.78	-47.27	-13.00	34.27	Vertical
6	7751	53.19	-42.47	36.81	-47.73	-13.00	34.73	Vertical



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Test Band = LTE_17
Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2116.5	103.19	-52.14	27.47	-16.74	-13.00	3.74	Horizontal
2	3528	83.03	-49.19	29.97	-31.45	-13.00	18.45	Horizontal
3	4234	71.68	-47.31	31.91	-38.98	-13.00	25.98	Horizontal
4	4939	68.85	-44.30	33.18	-37.53	-13.00	24.53	Horizontal
5	6350	71.16	-43.89	34.80	-33.19	-13.00	20.19	Horizontal
6	7761	59.21	-42.38	36.87	-41.56	-13.00	28.56	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2116.5	92.93	-52.14	27.47	-27.00	-13.00	14.00	Vertical
2	3528.5	76.08	-49.18	29.97	-38.39	-13.00	25.39	Vertical
3	4233.5	57.90	-47.31	31.90	-52.77	-13.00	39.77	Vertical
4	4939.5	63.38	-44.29	33.18	-42.99	-13.00	29.99	Vertical
5	6350.5	57.30	-43.89	34.80	-47.05	-13.00	34.05	Vertical
6	7762	52.87	-42.37	36.87	-47.89	-13.00	34.89	Vertical



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Test Band = LTE_17
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2120	103.93	-52.16	27.46	-16.03	-13.00	3.03	Horizontal
2	3533	82.96	-49.13	30.00	-31.43	-13.00	18.43	Horizontal
3	4239.5	76.44	-47.29	31.97	-34.14	-13.00	21.14	Horizontal
4	4946.5	67.37	-44.17	33.19	-38.87	-13.00	25.87	Horizontal
5	6359	74.64	-43.96	34.75	-29.83	-13.00	16.83	Horizontal
6	8479	54.64	-41.89	37.94	-44.57	-13.00	31.57	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2120	100.12	-52.16	27.46	-19.84	-13.00	6.84	Vertical
2	3533	75.11	-49.13	30.00	-39.28	-13.00	26.28	Vertical
3	4239	56.65	-47.29	31.97	-53.93	-13.00	40.93	Vertical
4	4946	61.88	-44.18	33.19	-44.37	-13.00	31.37	Vertical
5	6359.5	55.92	-43.96	34.74	-48.56	-13.00	35.56	Vertical
6	7772.5	52.47	-42.27	36.94	-48.12	-13.00	35.12	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) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---



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