1. Effective (Isotropic) Radiated Power Output Data

1.1 B5_1.4MHz_ERP

1.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	824.7	1	0	23.31	-2.18	18.98	<=38.45	Pass
			2	23.32	-2.18	18.99	<=38.45	Pass
			5	23.22	-2.18	18.89	<=38.45	Pass
		3	0	23.31	-2.18	18.98	<=38.45	Pass
			2	23.35	-2.18	19.02	<=38.45	Pass
			3	23.35	-2.18	19.02	<=38.45	Pass
		6	0	22.23	-2.18	17.90	<=38.45	Pass
	836.5	1	0	23.38	-2.18	19.05	<=38.45	Pass
			2	23.43	-2.18	19.10	<=38.45	Pass
			5	23.38	-2.18	19.05	<=38.45	Pass
		3	0	23.32	-2.18	18.99	<=38.45	Pass
			2	23.42	-2.18	19.09	<=38.45	Pass
			3	23.38	-2.18	19.05	<=38.45	Pass
		6	0	22.14	-2.18	17.81	<=38.45	Pass
	848.3	1	0	23.17	-2.18	18.84	<=38.45	Pass
			2	23.44	-2.18	19.11	<=38.45	Pass
			5	23.40	-2.18	19.07	<=38.45	Pass
		3	0	23.20	-2.18	18.87	<=38.45	Pass
			2	23.29	-2.18	18.96	<=38.45	Pass
			3	23.26	-2.18	18.93	<=38.45	Pass
		6	0	22.12	-2.18	17.79	<=38.45	Pass
16QAM	824.7	1	0	21.92	-2.18	17.59	<=38.45	Pass
			2	21.90	-2.18	17.57	<=38.45	Pass
			5	21.83	-2.18	17.50	<=38.45	Pass
		3	0	22.09	-2.18	17.76	<=38.45	Pass
			2	22.11	-2.18	17.78	<=38.45	Pass
			3	22.10	-2.18	17.77	<=38.45	Pass
		6	0	21.38	-2.18	17.05	<=38.45	Pass
	836.5	1	0	22.33	-2.18	18.00	<=38.45	Pass
			2	22.35	-2.18	18.02	<=38.45	Pass
			5	22.43	-2.18	18.10	<=38.45	Pass
		3	0	22.43	-2.18	18.10	<=38.45	Pass
			2	22.35	-2.18	18.02	<=38.45	Pass
			3	22.45	-2.18	18.12	<=38.45	Pass
		6	0	21.64	-2.18	17.31	<=38.45	Pass
	848.3	1	0	22.60	-2.18	18.27	<=38.45	Pass
			2	22.49	-2.18	18.16	<=38.45	Pass
			5	22.58	-2.18	18.25	<=38.45	Pass
		3	0	22.13	-2.18	17.80	<=38.45	Pass
			2	22.15	-2.18	17.82	<=38.45	Pass
			3	22.14	-2.18	17.81	<=38.45	Pass
		6	0	21.40	-2.18	17.07	<=38.45	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.2 B5_3MHz_ERP

1.2.1 Test Result

Band: 5 / Bandwidth: 3MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	825.5	1	0	23.28	-2.18	18.95	<=38.45	Pass
			7	23.24	-2.18	18.91	<=38.45	Pass
			14	23.33	-2.18	19.00	<=38.45	Pass
		8	0	22.19	-2.18	17.86	<=38.45	Pass
			4	22.23	-2.18	17.90	<=38.45	Pass
			7	22.35	-2.18	18.02	<=38.45	Pass
		15	0	22.21	-2.18	17.88	<=38.45	Pass
	836.5	1	0	23.34	-2.18	19.01	<=38.45	Pass
			7	23.43	-2.18	19.10	<=38.45	Pass
			14	23.47	-2.18	19.14	<=38.45	Pass
		8	0	22.41	-2.18	18.08	<=38.45	Pass
			4	22.36	-2.18	18.03	<=38.45	Pass
			7	22.33	-2.18	18.00	<=38.45	Pass
		15	0	22.27	-2.18	17.94	<=38.45	Pass
	847.5	1	0	23.29	-2.18	18.96	<=38.45	Pass
			7	23.17	-2.18	18.84	<=38.45	Pass
			14	23.18	-2.18	18.85	<=38.45	Pass
		8	0	22.46	-2.18	18.13	<=38.45	Pass
			4	22.35	-2.18	18.02	<=38.45	Pass
			7	22.39	-2.18	18.06	<=38.45	Pass
		15	0	22.32	-2.18	17.99	<=38.45	Pass
16QAM	825.5	1	0	21.89	-2.18	17.56	<=38.45	Pass
			7	21.82	-2.18	17.49	<=38.45	Pass
			14	21.87	-2.18	17.54	<=38.45	Pass
		8	0	21.35	-2.18	17.02	<=38.45	Pass
			4	21.36	-2.18	17.03	<=38.45	Pass
			7	21.46	-2.18	17.13	<=38.45	Pass
		15	0	21.24	-2.18	16.91	<=38.45	Pass
	836.5	1	0	22.97	-2.18	18.64	<=38.45	Pass
			7	23.01	-2.18	18.68	<=38.45	Pass
			14	22.88	-2.18	18.55	<=38.45	Pass
		8	0	21.51	-2.18	17.18	<=38.45	Pass
			4	21.63	-2.18	17.30	<=38.45	Pass
			7	21.61	-2.18	17.28	<=38.45	Pass
		15	0	21.42	-2.18	17.09	<=38.45	Pass
	847.5	1	0	22.24	-2.18	17.91	<=38.45	Pass
			7	22.25	-2.18	17.92	<=38.45	Pass
			14	22.22	-2.18	17.89	<=38.45	Pass
		8	0	21.65	-2.18	17.32	<=38.45	Pass
			4	21.52	-2.18	17.19	<=38.45	Pass
			7	21.57	-2.18	17.24	<=38.45	Pass
		15	0	21.38	-2.18	17.05	<=38.45	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.3 B5_5MHz_ERP

1.3.1 Test Result

Band: 5 / Bandwidth: 5MHz / NTNV

Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	826.5	1	0	23.24	-2.18	18.91	<=38.45	Pass
			13	23.24	-2.18	18.91	<=38.45	Pass
			24	23.26	-2.18	18.93	<=38.45	Pass
		12	0	22.29	-2.18	17.96	<=38.45	Pass
			6	22.29	-2.18	17.96	<=38.45	Pass
			13	22.26	-2.18	17.93	<=38.45	Pass
		25	0	22.37	-2.18	18.04	<=38.45	Pass
	836.5	1	0	23.35	-2.18	19.02	<=38.45	Pass
			13	23.41	-2.18	19.08	<=38.45	Pass
			24	23.39	-2.18	19.06	<=38.45	Pass
		12	0	22.36	-2.18	18.03	<=38.45	Pass
			6	22.33	-2.18	18.00	<=38.45	Pass
			13	22.41	-2.18	18.08	<=38.45	Pass
		25	0	22.33	-2.18	18.00	<=38.45	Pass
	846.5	1	0	23.29	-2.18	18.96	<=38.45	Pass
			13	23.21	-2.18	18.88	<=38.45	Pass
			24	23.23	-2.18	18.90	<=38.45	Pass
		12	0	22.31	-2.18	17.98	<=38.45	Pass
			6	22.43	-2.18	18.10	<=38.45	Pass
			13	22.40	-2.18	18.07	<=38.45	Pass
		25	0	22.38	-2.18	18.05	<=38.45	Pass
16QAM	826.5	1	0	22.51	-2.18	18.18	<=38.45	Pass
			13	22.57	-2.18	18.24	<=38.45	Pass
			24	22.58	-2.18	18.25	<=38.45	Pass
		12	0	21.23	-2.18	16.90	<=38.45	Pass
			6	21.39	-2.18	17.06	<=38.45	Pass
			13	21.34	-2.18	17.01	<=38.45	Pass
		25	0	21.46	-2.18	17.13	<=38.45	Pass
	836.5	1	0	22.36	-2.18	18.03	<=38.45	Pass
			13	22.35	-2.18	18.02	<=38.45	Pass
			24	22.36	-2.18	18.03	<=38.45	Pass
		12	0	21.26	-2.18	16.93	<=38.45	Pass
			6	21.35	-2.18	17.02	<=38.45	Pass
			13	21.36	-2.18	17.03	<=38.45	Pass
		25	0	21.40	-2.18	17.07	<=38.45	Pass
	846.5	1	0	21.72	-2.18	17.39	<=38.45	Pass
			13	21.85	-2.18	17.52	<=38.45	Pass
			24	21.80	-2.18	17.47	<=38.45	Pass
		12	0	21.82	-2.18	17.49	<=38.45	Pass
			6	21.42	-2.18	17.09	<=38.45	Pass
			13	21.40	-2.18	17.07	<=38.45	Pass
		25	0	21.41	-2.18	17.08	<=38.45	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.4 B5_10MHz_ERP

1.4.1 Test Result

Band: 5 / Bandwidth: 10MHz / NTNV								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	829	1	0	23.20	-2.18	18.87	<=38.45	Pass
			25	23.24	-2.18	18.91	<=38.45	Pass

			49	23.30	-2.18	18.97	<=38.45	Pass
		25	0	22.35	-2.18	18.02	<=38.45	Pass
			13	22.29	-2.18	17.96	<=38.45	Pass
			25	22.35	-2.18	18.02	<=38.45	Pass
		50	0	22.36	-2.18	18.03	<=38.45	Pass
	836.5	1	0	23.35	-2.18	19.02	<=38.45	Pass
			25	23.46	-2.18	19.13	<=38.45	Pass
			49	23.48	-2.18	19.15	<=38.45	Pass
		25	0	22.41	-2.18	18.08	<=38.45	Pass
			13	22.32	-2.18	17.99	<=38.45	Pass
			25	22.33	-2.18	18.00	<=38.45	Pass
		50	0	22.42	-2.18	18.09	<=38.45	Pass
	844	1	0	23.27	-2.18	18.94	<=38.45	Pass
			25	23.23	-2.18	18.90	<=38.45	Pass
			49	23.23	-2.18	18.90	<=38.45	Pass
		25	0	22.38	-2.18	18.05	<=38.45	Pass
			13	22.40	-2.18	18.07	<=38.45	Pass
			25	22.37	-2.18	18.04	<=38.45	Pass
		50	0	22.37	-2.18	18.04	<=38.45	Pass
16QAM	829	1	0	22.29	-2.18	17.96	<=38.45	Pass
			25	22.27	-2.18	17.94	<=38.45	Pass
			49	22.29	-2.18	17.96	<=38.45	Pass
		25	0	21.43	-2.18	17.10	<=38.45	Pass
			13	21.41	-2.18	17.08	<=38.45	Pass
			25	21.40	-2.18	17.07	<=38.45	Pass
		50	0	21.31	-2.18	16.98	<=38.45	Pass
	836.5	1	0	22.35	-2.18	18.02	<=38.45	Pass
			25	22.42	-2.18	18.09	<=38.45	Pass
			49	22.49	-2.18	18.16	<=38.45	Pass
		25	0	21.50	-2.18	17.17	<=38.45	Pass
			13	21.54	-2.18	17.21	<=38.45	Pass
			25	21.92	-2.18	17.59	<=38.45	Pass
		50	0	21.50	-2.18	17.17	<=38.45	Pass
	844	1	0	22.13	-2.18	17.80	<=38.45	Pass
			25	22.15	-2.18	17.82	<=38.45	Pass
			49	22.26	-2.18	17.93	<=38.45	Pass
		25	0	21.41	-2.18	17.08	<=38.45	Pass
			13	21.40	-2.18	17.07	<=38.45	Pass
			25	21.41	-2.18	17.08	<=38.45	Pass
		50	0	21.45	-2.18	17.12	<=38.45	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 B5_1.4MHz

2.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	824.7	6	0	20	3.27	-27.895	-0.0338	-2.5 to 2.5	Pass
					3.85	22.845	0.0277	-2.5 to 2.5	Pass
					4.43	16.379	0.0199	-2.5 to 2.5	Pass

				-30	3.85	45.547	0.0552	-2.5 to 2.5	Pass
				-20	3.85	16.222	0.0197	-2.5 to 2.5	Pass
				-10	3.85	18.897	0.0229	-2.5 to 2.5	Pass
				0	3.85	12.345	0.0150	-2.5 to 2.5	Pass
				10	3.85	46.921	0.0569	-2.5 to 2.5	Pass
				30	3.85	28.682	0.0348	-2.5 to 2.5	Pass
				40	3.85	4.020	0.0049	-2.5 to 2.5	Pass
				50	3.85	25.048	0.0304	-2.5 to 2.5	Pass
	836.5	6	0	20	3.27	-15.092	-0.0180	-2.5 to 2.5	Pass
					3.85	-29.984	-0.0358	-2.5 to 2.5	Pass
					4.43	-29.869	-0.0357	-2.5 to 2.5	Pass
				-30	3.85	-32.573	-0.0389	-2.5 to 2.5	Pass
				-20	3.85	-39.210	-0.0469	-2.5 to 2.5	Pass
				-10	3.85	-36.564	-0.0437	-2.5 to 2.5	Pass
				0	3.85	-30.899	-0.0369	-2.5 to 2.5	Pass
				10	3.85	-20.642	-0.0247	-2.5 to 2.5	Pass
				30	3.85	-5.665	-0.0068	-2.5 to 2.5	Pass
				40	3.85	-19.813	-0.0237	-2.5 to 2.5	Pass
				50	3.85	-37.436	-0.0448	-2.5 to 2.5	Pass
	848.3	6	0	20	3.27	-31.686	-0.0374	-2.5 to 2.5	Pass
					3.85	-20.385	-0.0240	-2.5 to 2.5	Pass
					4.43	-37.208	-0.0439	-2.5 to 2.5	Pass
				-30	3.85	-31.357	-0.0370	-2.5 to 2.5	Pass
				-20	3.85	-11.001	-0.0130	-2.5 to 2.5	Pass
				-10	3.85	-18.954	-0.0223	-2.5 to 2.5	Pass
				0	3.85	-31.915	-0.0376	-2.5 to 2.5	Pass
				10	3.85	-18.969	-0.0224	-2.5 to 2.5	Pass
				30	3.85	-25.434	-0.0300	-2.5 to 2.5	Pass
				40	3.85	-19.627	-0.0231	-2.5 to 2.5	Pass
				50	3.85	-36.421	-0.0429	-2.5 to 2.5	Pass
16QAM	824.7	6	0	20	3.27	44.689	0.0542	-2.5 to 2.5	Pass
					3.85	-17.495	-0.0212	-2.5 to 2.5	Pass
					4.43	-36.349	-0.0441	-2.5 to 2.5	Pass
				-30	3.85	-48.952	-0.0594	-2.5 to 2.5	Pass
				-20	3.85	-11.730	-0.0142	-2.5 to 2.5	Pass
				-10	3.85	-20.757	-0.0252	-2.5 to 2.5	Pass
				0	3.85	-26.507	-0.0321	-2.5 to 2.5	Pass
				10	3.85	-33.188	-0.0402	-2.5 to 2.5	Pass
				30	3.85	-40.841	-0.0495	-2.5 to 2.5	Pass
				40	3.85	-45.576	-0.0553	-2.5 to 2.5	Pass
				50	3.85	-1.659	-0.0020	-2.5 to 2.5	Pass
	836.5	6	0	20	3.27	-47.264	-0.0565	-2.5 to 2.5	Pass
					3.85	-43.144	-0.0516	-2.5 to 2.5	Pass
					4.43	-32.859	-0.0393	-2.5 to 2.5	Pass
				-30	3.85	-24.533	-0.0293	-2.5 to 2.5	Pass
				-20	3.85	-16.322	-0.0195	-2.5 to 2.5	Pass
				-10	3.85	-5.364	-0.0064	-2.5 to 2.5	Pass
				0	3.85	-36.049	-0.0431	-2.5 to 2.5	Pass
				10	3.85	-23.661	-0.0283	-2.5 to 2.5	Pass
				30	3.85	-40.312	-0.0482	-2.5 to 2.5	Pass
				40	3.85	-27.680	-0.0331	-2.5 to 2.5	Pass
				50	3.85	-3.633	-0.0043	-2.5 to 2.5	Pass
	848.3	6	0	20	3.27	-34.404	-0.0406	-2.5 to 2.5	Pass
					3.85	-32.701	-0.0385	-2.5 to 2.5	Pass
					4.43	-28.896	-0.0341	-2.5 to 2.5	Pass
				-30	3.85	-11.187	-0.0132	-2.5 to 2.5	Pass
				-20	3.85	-44.789	-0.0528	-2.5 to 2.5	Pass

				-10	3.85	-31.099	-0.0367	-2.5 to 2.5	Pass
				0	3.85	-10.743	-0.0127	-2.5 to 2.5	Pass
				10	3.85	-38.824	-0.0458	-2.5 to 2.5	Pass
				30	3.85	-19.498	-0.0230	-2.5 to 2.5	Pass
				40	3.85	-45.433	-0.0536	-2.5 to 2.5	Pass
				50	3.85	-20.256	-0.0239	-2.5 to 2.5	Pass

2.2 B5_3MHz

2.2.1 Test Result

Band: 5 / Bandwidth: 3MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	825.5	15	0	20	3.27	-7.310	-0.0089	-2.5 to 2.5	Pass
					3.85	-27.308	-0.0331	-2.5 to 2.5	Pass
					4.43	-12.145	-0.0147	-2.5 to 2.5	Pass
				-30	3.85	-11.001	-0.0133	-2.5 to 2.5	Pass
				-20	3.85	-8.011	-0.0097	-2.5 to 2.5	Pass
				-10	3.85	-2.646	-0.0032	-2.5 to 2.5	Pass
				0	3.85	-23.246	-0.0282	-2.5 to 2.5	Pass
				10	3.85	-35.462	-0.0430	-2.5 to 2.5	Pass
				30	3.85	-39.968	-0.0484	-2.5 to 2.5	Pass
				40	3.85	-37.837	-0.0458	-2.5 to 2.5	Pass
				50	3.85	-43.116	-0.0522	-2.5 to 2.5	Pass
	836.5	15	0	20	3.27	19.512	0.0233	-2.5 to 2.5	Pass
					3.85	9.742	0.0116	-2.5 to 2.5	Pass
					4.43	2.618	0.0031	-2.5 to 2.5	Pass
				-30	3.85	-3.891	-0.0047	-2.5 to 2.5	Pass
				-20	3.85	-10.686	-0.0128	-2.5 to 2.5	Pass
				-10	3.85	-16.894	-0.0202	-2.5 to 2.5	Pass
				0	3.85	-23.375	-0.0279	-2.5 to 2.5	Pass
				10	3.85	-29.941	-0.0358	-2.5 to 2.5	Pass
				30	3.85	-38.152	-0.0456	-2.5 to 2.5	Pass
				40	3.85	-43.931	-0.0525	-2.5 to 2.5	Pass
				50	3.85	-5.693	-0.0068	-2.5 to 2.5	Pass
	847.5	15	0	20	3.27	5.636	0.0067	-2.5 to 2.5	Pass
					3.85	-21.472	-0.0253	-2.5 to 2.5	Pass
					4.43	-35.634	-0.0420	-2.5 to 2.5	Pass
				-30	3.85	-37.794	-0.0446	-2.5 to 2.5	Pass
				-20	3.85	-7.982	-0.0094	-2.5 to 2.5	Pass
				-10	3.85	-16.937	-0.0200	-2.5 to 2.5	Pass
				0	3.85	-23.375	-0.0276	-2.5 to 2.5	Pass
				10	3.85	-30.670	-0.0362	-2.5 to 2.5	Pass
				30	3.85	-35.148	-0.0415	-2.5 to 2.5	Pass
				40	3.85	-39.840	-0.0470	-2.5 to 2.5	Pass
				50	3.85	-44.103	-0.0520	-2.5 to 2.5	Pass
16QAM	825.5	15	0	20	3.27	-36.249	-0.0439	-2.5 to 2.5	Pass
					3.85	-9.484	-0.0115	-2.5 to 2.5	Pass
					4.43	-32.930	-0.0399	-2.5 to 2.5	Pass
				-30	3.85	-6.251	-0.0076	-2.5 to 2.5	Pass
				-20	3.85	-23.818	-0.0289	-2.5 to 2.5	Pass
				-10	3.85	-42.501	-0.0515	-2.5 to 2.5	Pass
				0	3.85	-14.563	-0.0176	-2.5 to 2.5	Pass
				10	3.85	-31.056	-0.0376	-2.5 to 2.5	Pass

				30	3.85	3.319	0.0040	-2.5 to 2.5	Pass
				40	3.85	-8.826	-0.0107	-2.5 to 2.5	Pass
				50	3.85	-24.376	-0.0295	-2.5 to 2.5	Pass
	836.5	15	0	20	3.27	-12.631	-0.0151	-2.5 to 2.5	Pass
					3.85	-12.503	-0.0149	-2.5 to 2.5	Pass
					4.43	-14.892	-0.0178	-2.5 to 2.5	Pass
				-30	3.85	-13.919	-0.0166	-2.5 to 2.5	Pass
				-20	3.85	-19.412	-0.0232	-2.5 to 2.5	Pass
				-10	3.85	-22.702	-0.0271	-2.5 to 2.5	Pass
				0	3.85	-24.776	-0.0296	-2.5 to 2.5	Pass
				10	3.85	-28.124	-0.0336	-2.5 to 2.5	Pass
				30	3.85	-32.830	-0.0392	-2.5 to 2.5	Pass
				40	3.85	-34.962	-0.0418	-2.5 to 2.5	Pass
				50	3.85	-37.551	-0.0449	-2.5 to 2.5	Pass
	847.5	15	0	20	3.27	-47.307	-0.0558	-2.5 to 2.5	Pass
					3.85	-46.706	-0.0551	-2.5 to 2.5	Pass
					4.43	-48.008	-0.0566	-2.5 to 2.5	Pass
				-30	3.85	3.505	0.0041	-2.5 to 2.5	Pass
				-20	3.85	2.332	0.0028	-2.5 to 2.5	Pass
				-10	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
				0	3.85	0.587	0.0007	-2.5 to 2.5	Pass
				10	3.85	-1.888	-0.0022	-2.5 to 2.5	Pass
				30	3.85	-1.917	-0.0023	-2.5 to 2.5	Pass
				40	3.85	-2.732	-0.0032	-2.5 to 2.5	Pass
				50	3.85	-3.419	-0.0040	-2.5 to 2.5	Pass

2.3 B5_5MHz

2.3.1 Test Result

Band: 5 / Bandwidth: 5MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	826.5	25	0	20	3.27	4.177	0.0051	-2.5 to 2.5	Pass
					3.85	-42.186	-0.0510	-2.5 to 2.5	Pass
					4.43	-26.765	-0.0324	-2.5 to 2.5	Pass
				-30	3.85	-48.480	-0.0587	-2.5 to 2.5	Pass
				-20	3.85	-15.364	-0.0186	-2.5 to 2.5	Pass
				-10	3.85	-28.467	-0.0344	-2.5 to 2.5	Pass
				0	3.85	-34.432	-0.0417	-2.5 to 2.5	Pass
				10	3.85	-39.067	-0.0473	-2.5 to 2.5	Pass
				30	3.85	-41.356	-0.0500	-2.5 to 2.5	Pass
				40	3.85	-43.316	-0.0524	-2.5 to 2.5	Pass
				50	3.85	-42.715	-0.0517	-2.5 to 2.5	Pass
	836.5	25	0	20	3.27	9.999	0.0120	-2.5 to 2.5	Pass
					3.85	-5.794	-0.0069	-2.5 to 2.5	Pass
					4.43	-6.180	-0.0074	-2.5 to 2.5	Pass
				-30	3.85	-5.779	-0.0069	-2.5 to 2.5	Pass
				-20	3.85	-4.878	-0.0058	-2.5 to 2.5	Pass
				-10	3.85	-4.606	-0.0055	-2.5 to 2.5	Pass
				0	3.85	-4.249	-0.0051	-2.5 to 2.5	Pass
				10	3.85	-3.748	-0.0045	-2.5 to 2.5	Pass
				30	3.85	-2.847	-0.0034	-2.5 to 2.5	Pass
				40	3.85	-2.232	-0.0027	-2.5 to 2.5	Pass
				50	3.85	-1.888	-0.0023	-2.5 to 2.5	Pass

	846.5	25	0	20	3.27	5.035	0.0059	-2.5 to 2.5	Pass
					3.85	-2.789	-0.0033	-2.5 to 2.5	Pass
					4.43	7.553	0.0089	-2.5 to 2.5	Pass
				-30	3.85	21.529	0.0254	-2.5 to 2.5	Pass
				-20	3.85	28.782	0.0340	-2.5 to 2.5	Pass
				-10	3.85	35.090	0.0415	-2.5 to 2.5	Pass
				0	3.85	44.575	0.0527	-2.5 to 2.5	Pass
				10	3.85	46.277	0.0547	-2.5 to 2.5	Pass
				30	3.85	-2.074	-0.0025	-2.5 to 2.5	Pass
				40	3.85	1.001	0.0012	-2.5 to 2.5	Pass
				50	3.85	4.306	0.0051	-2.5 to 2.5	Pass
16QAM	826.5	25	0	20	3.27	-42.086	-0.0509	-2.5 to 2.5	Pass
					3.85	-38.624	-0.0467	-2.5 to 2.5	Pass
					4.43	-38.681	-0.0468	-2.5 to 2.5	Pass
				-30	3.85	-38.052	-0.0460	-2.5 to 2.5	Pass
				-20	3.85	-36.621	-0.0443	-2.5 to 2.5	Pass
				-10	3.85	-35.949	-0.0435	-2.5 to 2.5	Pass
				0	3.85	-35.605	-0.0431	-2.5 to 2.5	Pass
				10	3.85	-33.517	-0.0406	-2.5 to 2.5	Pass
				30	3.85	-33.188	-0.0402	-2.5 to 2.5	Pass
				40	3.85	-32.430	-0.0392	-2.5 to 2.5	Pass
				50	3.85	-31.543	-0.0382	-2.5 to 2.5	Pass
	836.5	25	0	20	3.27	0.129	0.0002	-2.5 to 2.5	Pass
					3.85	-0.358	-0.0004	-2.5 to 2.5	Pass
					4.43	-3.147	-0.0038	-2.5 to 2.5	Pass
				-30	3.85	-5.322	-0.0064	-2.5 to 2.5	Pass
				-20	3.85	-6.366	-0.0076	-2.5 to 2.5	Pass
				-10	3.85	-8.397	-0.0100	-2.5 to 2.5	Pass
				0	3.85	-9.198	-0.0110	-2.5 to 2.5	Pass
				10	3.85	-9.527	-0.0114	-2.5 to 2.5	Pass
				30	3.85	-10.815	-0.0129	-2.5 to 2.5	Pass
				40	3.85	-11.129	-0.0133	-2.5 to 2.5	Pass
				50	3.85	-11.544	-0.0138	-2.5 to 2.5	Pass
	846.5	25	0	20	3.27	8.926	0.0105	-2.5 to 2.5	Pass
					3.85	8.812	0.0104	-2.5 to 2.5	Pass
					4.43	6.824	0.0081	-2.5 to 2.5	Pass
				-30	3.85	2.575	0.0030	-2.5 to 2.5	Pass
				-20	3.85	0.200	0.0002	-2.5 to 2.5	Pass
				-10	3.85	-0.486	-0.0006	-2.5 to 2.5	Pass
				0	3.85	-1.659	-0.0020	-2.5 to 2.5	Pass
				10	3.85	-2.847	-0.0034	-2.5 to 2.5	Pass
				30	3.85	-3.347	-0.0040	-2.5 to 2.5	Pass
				40	3.85	-2.975	-0.0035	-2.5 to 2.5	Pass
				50	3.85	-3.090	-0.0037	-2.5 to 2.5	Pass

2.4 B5_10MHz

2.4.1 Test Result

Band: 5 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	829	50	0	20	3.27	11.930	0.0144	-2.5 to 2.5	Pass
					3.85	-14.620	-0.0176	-2.5 to 2.5	Pass
					4.43	-22.244	-0.0268	-2.5 to 2.5	Pass

				-30	3.85	-24.977	-0.0301	-2.5 to 2.5	Pass
				-20	3.85	-22.316	-0.0269	-2.5 to 2.5	Pass
				-10	3.85	-17.624	-0.0213	-2.5 to 2.5	Pass
				0	3.85	-11.373	-0.0137	-2.5 to 2.5	Pass
				10	3.85	-5.808	-0.0070	-2.5 to 2.5	Pass
				30	3.85	0.815	0.0010	-2.5 to 2.5	Pass
				40	3.85	8.740	0.0105	-2.5 to 2.5	Pass
				50	3.85	13.118	0.0158	-2.5 to 2.5	Pass
	836.5	50	0	20	3.27	1.974	0.0024	-2.5 to 2.5	Pass
					3.85	-10.071	-0.0120	-2.5 to 2.5	Pass
					4.43	-9.742	-0.0116	-2.5 to 2.5	Pass
				-30	3.85	-6.995	-0.0084	-2.5 to 2.5	Pass
				-20	3.85	-4.592	-0.0055	-2.5 to 2.5	Pass
				-10	3.85	-3.219	-0.0038	-2.5 to 2.5	Pass
				0	3.85	-1.001	-0.0012	-2.5 to 2.5	Pass
				10	3.85	1.631	0.0019	-2.5 to 2.5	Pass
				30	3.85	0.844	0.0010	-2.5 to 2.5	Pass
				40	3.85	1.717	0.0021	-2.5 to 2.5	Pass
				50	3.85	3.276	0.0039	-2.5 to 2.5	Pass
	844	50	0	20	3.27	-3.247	-0.0038	-2.5 to 2.5	Pass
					3.85	-6.652	-0.0079	-2.5 to 2.5	Pass
					4.43	9.713	0.0115	-2.5 to 2.5	Pass
				-30	3.85	23.460	0.0278	-2.5 to 2.5	Pass
				-20	3.85	34.504	0.0409	-2.5 to 2.5	Pass
				-10	3.85	-2.289	-0.0027	-2.5 to 2.5	Pass
				0	3.85	5.693	0.0067	-2.5 to 2.5	Pass
				10	3.85	16.980	0.0201	-2.5 to 2.5	Pass
				30	3.85	25.234	0.0299	-2.5 to 2.5	Pass
				40	3.85	33.417	0.0396	-2.5 to 2.5	Pass
				50	3.85	41.957	0.0497	-2.5 to 2.5	Pass
16QAM	829	50	0	20	3.27	19.283	0.0233	-2.5 to 2.5	Pass
					3.85	21.429	0.0258	-2.5 to 2.5	Pass
					4.43	21.243	0.0256	-2.5 to 2.5	Pass
				-30	3.85	20.571	0.0248	-2.5 to 2.5	Pass
				-20	3.85	21.501	0.0259	-2.5 to 2.5	Pass
				-10	3.85	21.114	0.0255	-2.5 to 2.5	Pass
				0	3.85	22.130	0.0267	-2.5 to 2.5	Pass
				10	3.85	23.618	0.0285	-2.5 to 2.5	Pass
				30	3.85	23.804	0.0287	-2.5 to 2.5	Pass
				40	3.85	23.975	0.0289	-2.5 to 2.5	Pass
				50	3.85	24.719	0.0298	-2.5 to 2.5	Pass
	836.5	50	0	20	3.27	3.762	0.0045	-2.5 to 2.5	Pass
					3.85	0.730	0.0009	-2.5 to 2.5	Pass
					4.43	-2.747	-0.0033	-2.5 to 2.5	Pass
				-30	3.85	-5.422	-0.0065	-2.5 to 2.5	Pass
				-20	3.85	-8.984	-0.0107	-2.5 to 2.5	Pass
				-10	3.85	-11.673	-0.0140	-2.5 to 2.5	Pass
				0	3.85	-13.003	-0.0155	-2.5 to 2.5	Pass
				10	3.85	-13.132	-0.0157	-2.5 to 2.5	Pass
				30	3.85	-15.235	-0.0182	-2.5 to 2.5	Pass
				40	3.85	-15.521	-0.0186	-2.5 to 2.5	Pass
				50	3.85	-17.223	-0.0206	-2.5 to 2.5	Pass
	844	50	0	20	3.27	4.020	0.0048	-2.5 to 2.5	Pass
					3.85	1.087	0.0013	-2.5 to 2.5	Pass
					4.43	-3.862	-0.0046	-2.5 to 2.5	Pass
				-30	3.85	-7.238	-0.0086	-2.5 to 2.5	Pass
				-20	3.85	-8.912	-0.0106	-2.5 to 2.5	Pass

				-10	3.85	-11.802	-0.0140	-2.5 to 2.5	Pass
				0	3.85	-12.903	-0.0153	-2.5 to 2.5	Pass
				10	3.85	-12.860	-0.0152	-2.5 to 2.5	Pass
				30	3.85	-13.418	-0.0159	-2.5 to 2.5	Pass
				40	3.85	-13.604	-0.0161	-2.5 to 2.5	Pass
				50	3.85	-13.704	-0.0162	-2.5 to 2.5	Pass

3. Modulation Characteristics

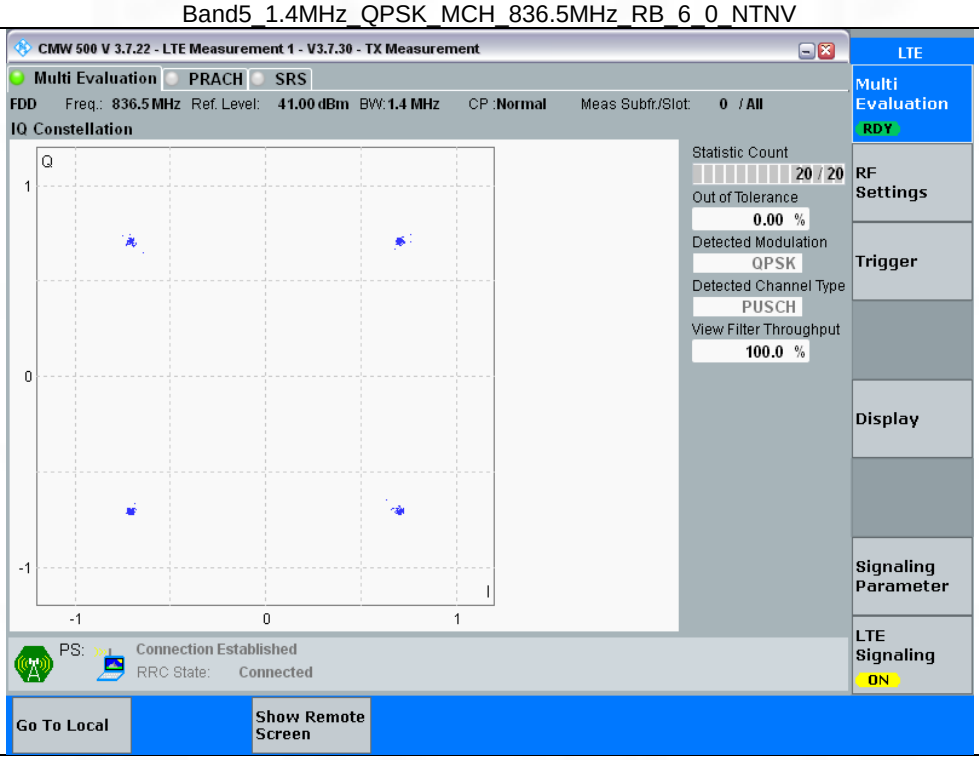
3.1 B5_1.4MHz

3.1.1 Test Result

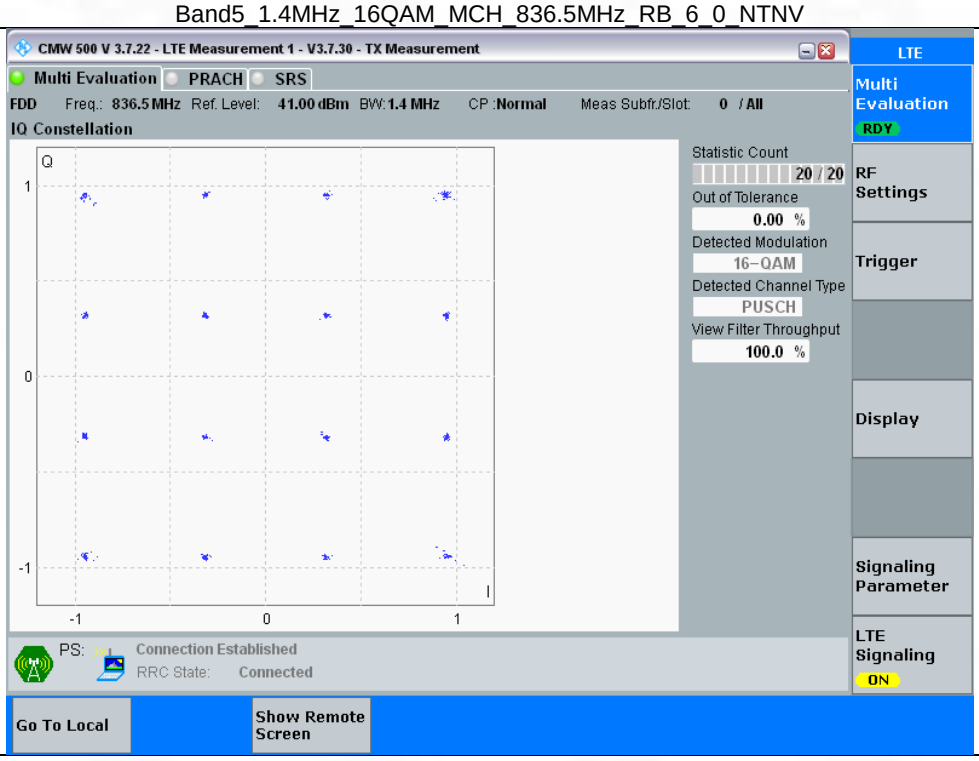
Band: 5 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	6	0	Refer To Test Graph		Pass
16QAM	836.5	6	0	Refer To Test Graph		Pass

3.1.2 Test Graph

Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV



Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



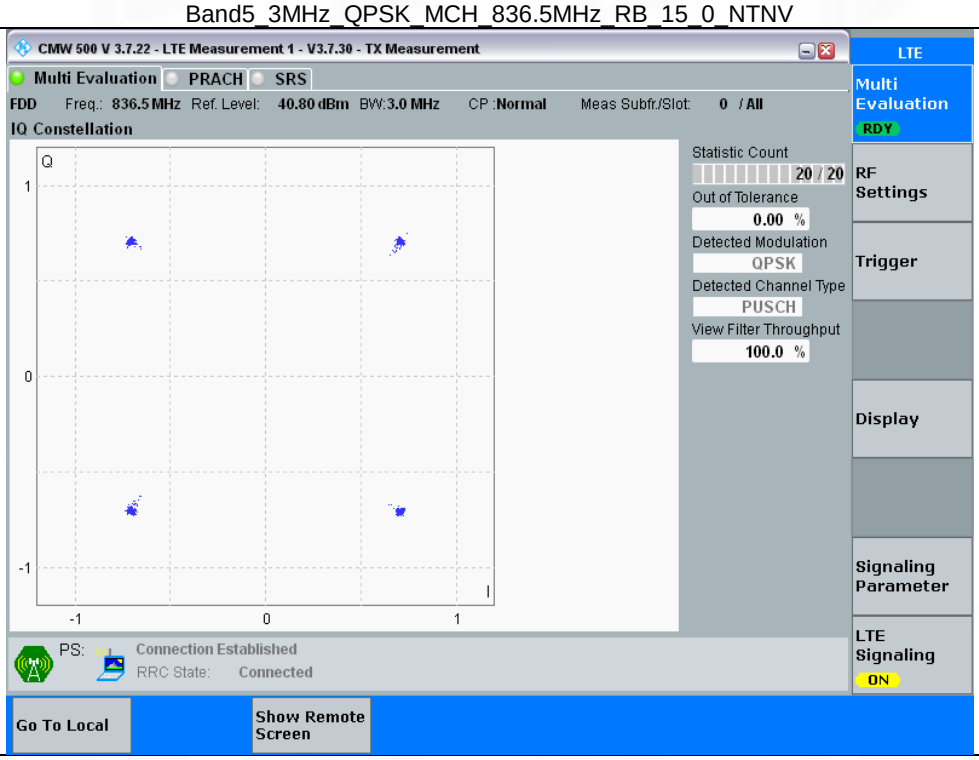
3.2 B5_3MHz

3.2.1 Test Result

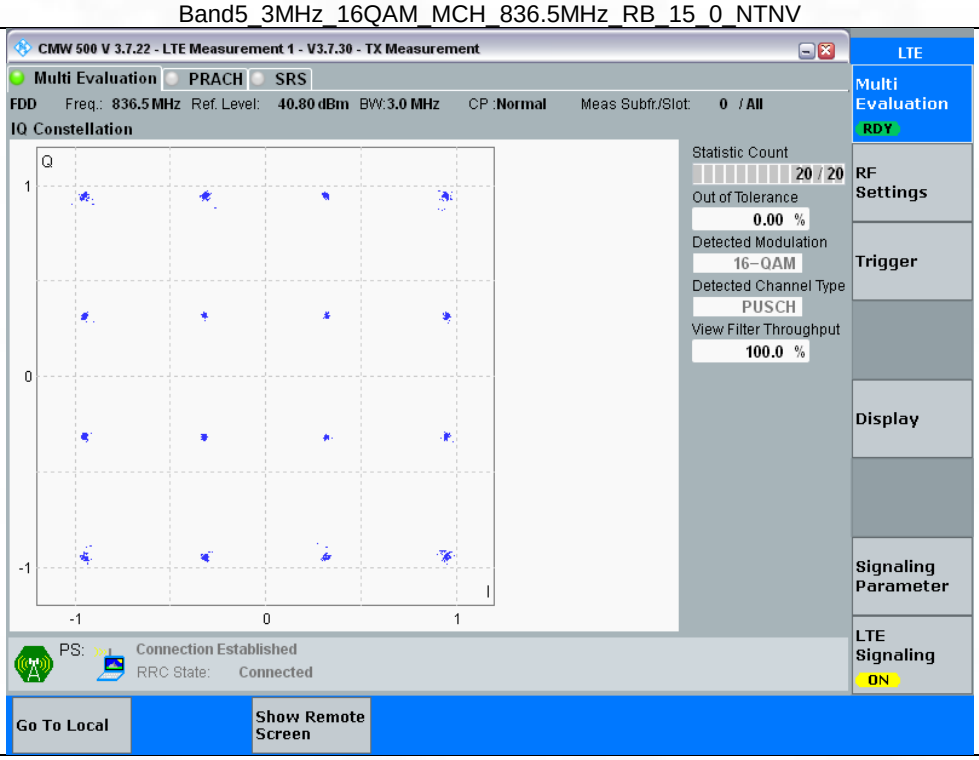
Band: 5 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	15	0	Refer To Test Graph		Pass
16QAM	836.5	15	0	Refer To Test Graph		Pass

3.2.2 Test Graph

Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



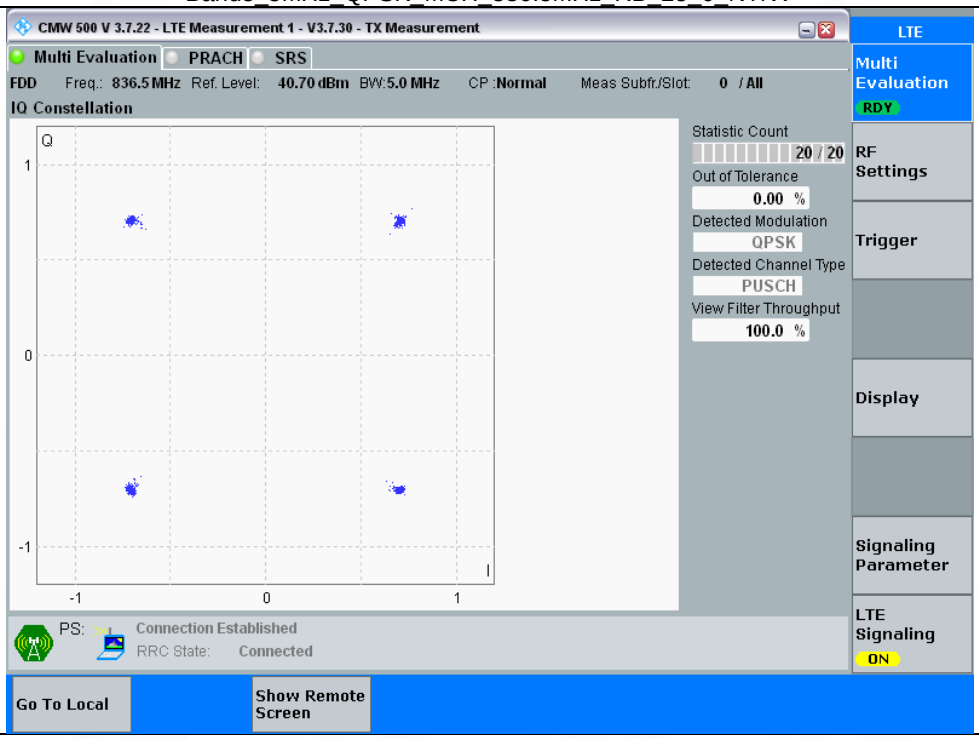
3.3 B5_5MHz

3.3.1 Test Result

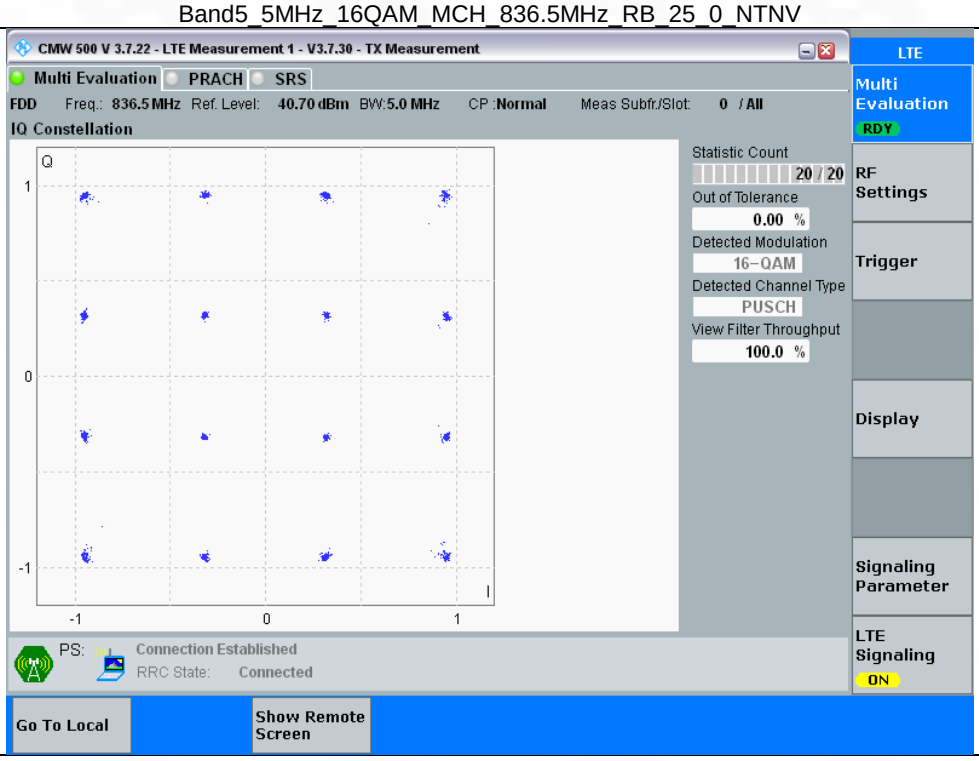
Band: 5 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	25	0	Refer To Test Graph		Pass
16QAM	836.5	25	0	Refer To Test Graph		Pass

3.3.2 Test Graph

Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



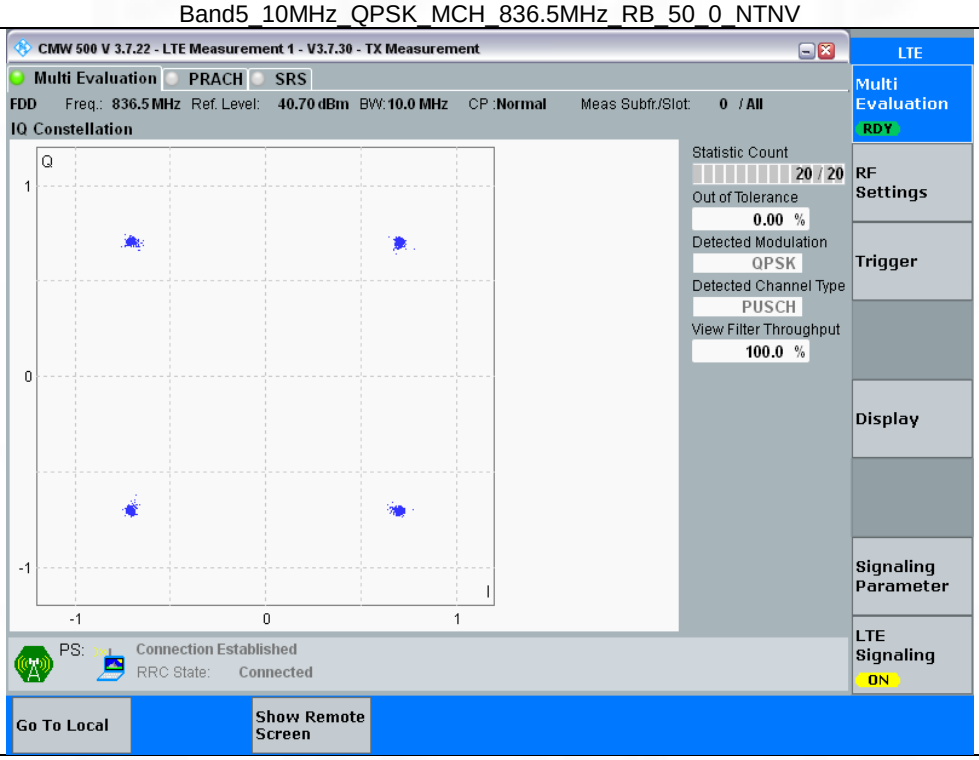
3.4 B5_10MHz

3.4.1 Test Result

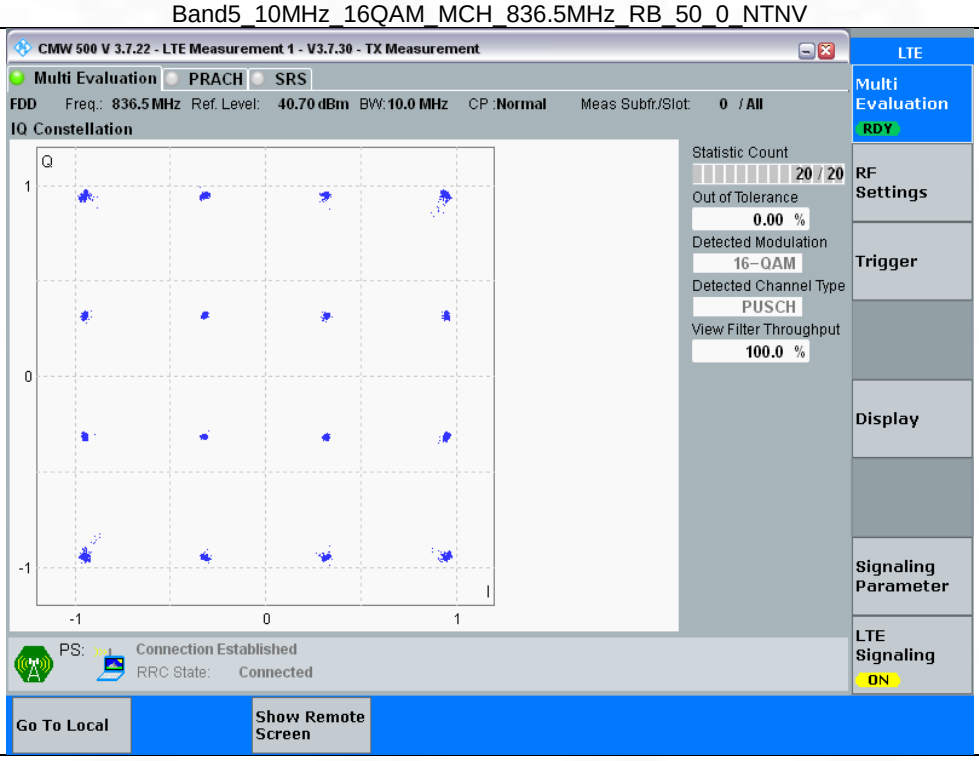
Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	50	0	Refer To Test Graph		Pass
16QAM	836.5	50	0	Refer To Test Graph		Pass

3.4.2 Test Graph

Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV



4. 99% & 26dB Bandwidth

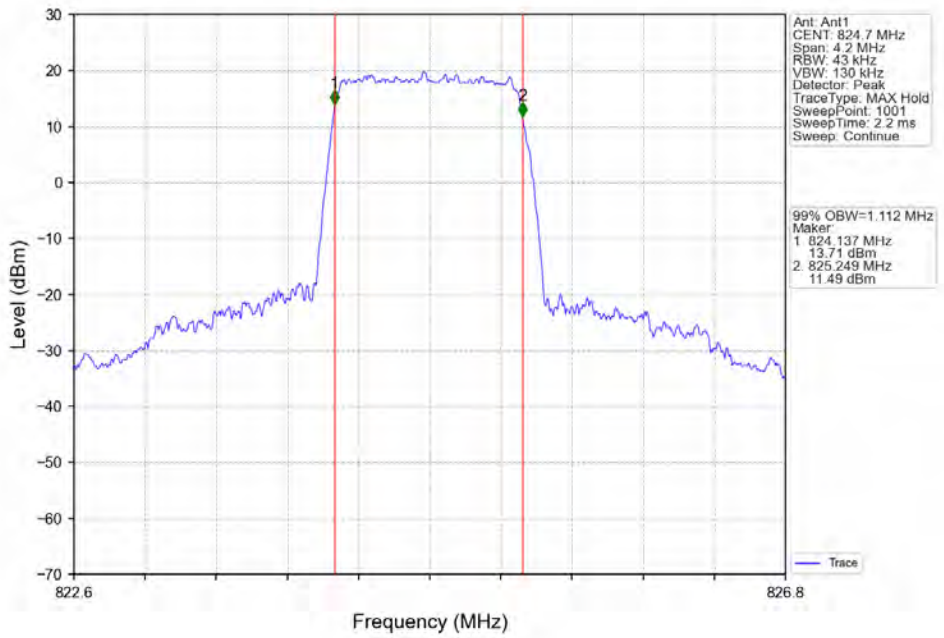
4.1 Band5_OBW

4.1.1 Test Result

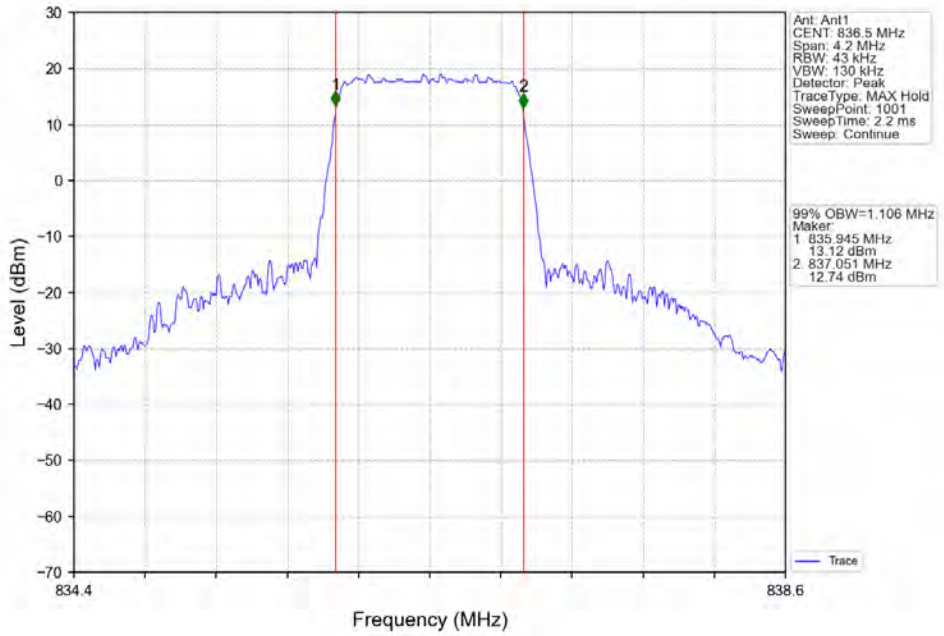
Band: 5 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.112	/	Pass
		836.5	6	0	1.106	/	Pass
		848.3	6	0	1.113	/	Pass
	16QAM	824.7	6	0	1.119	/	Pass
		836.5	6	0	1.107	/	Pass
		848.3	6	0	1.126	/	Pass
3	QPSK	825.5	15	0	2.754	/	Pass
		836.5	15	0	2.750	/	Pass
		847.5	15	0	2.770	/	Pass
	16QAM	825.5	15	0	2.764	/	Pass
		836.5	15	0	2.747	/	Pass
		847.5	15	0	2.780	/	Pass
5	QPSK	826.5	25	0	4.549	/	Pass
		836.5	25	0	4.553	/	Pass
		846.5	25	0	4.574	/	Pass
	16QAM	826.5	25	0	4.591	/	Pass
		836.5	25	0	4.562	/	Pass
		846.5	25	0	4.557	/	Pass
10	QPSK	829	50	0	9.129	/	Pass
		836.5	50	0	9.024	/	Pass
		844	50	0	9.101	/	Pass
	16QAM	829	50	0	9.084	/	Pass
		836.5	50	0	9.029	/	Pass
		844	50	0	9.122	/	Pass

4.1.2 Test Graph

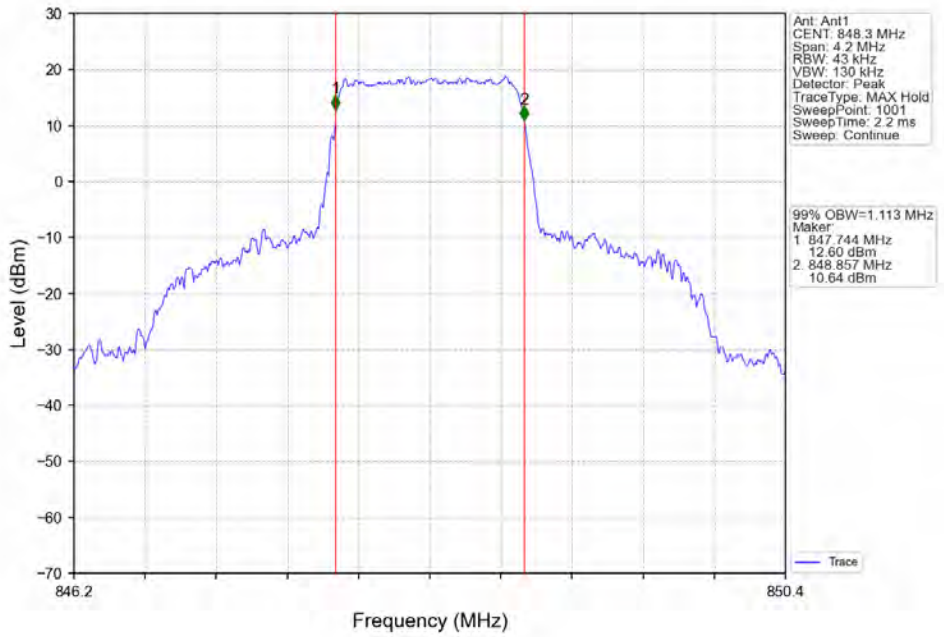
Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



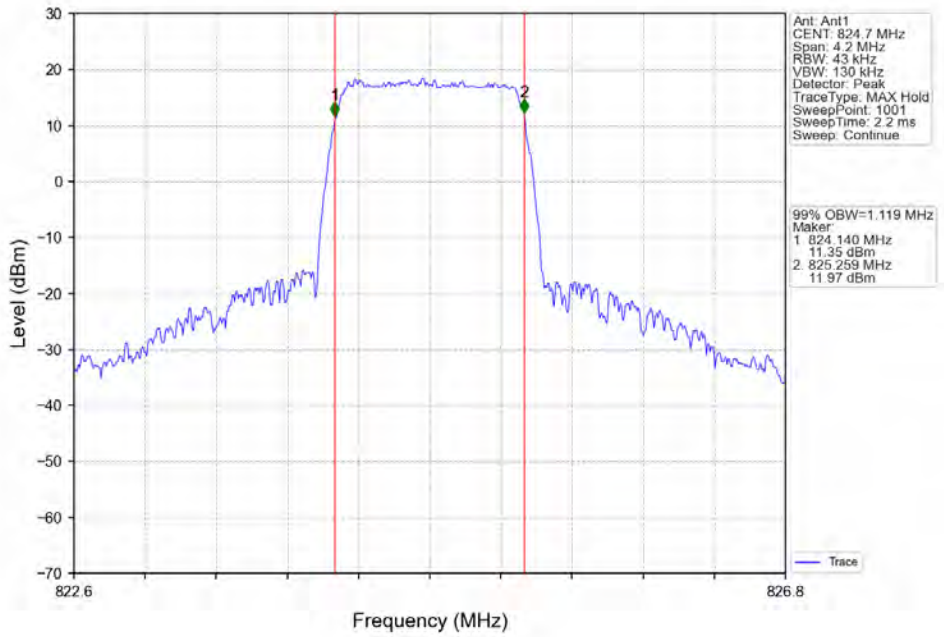
Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV



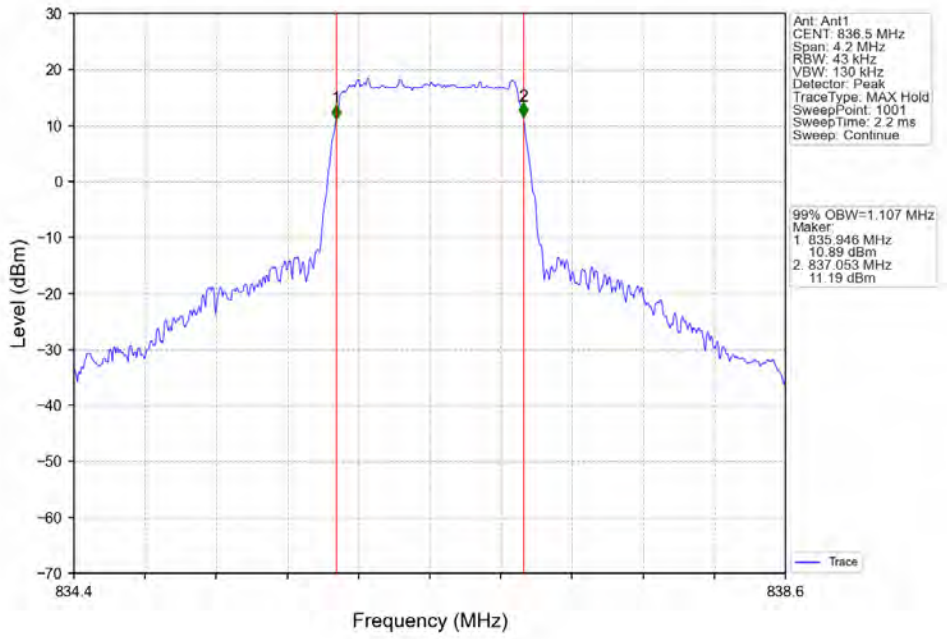
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



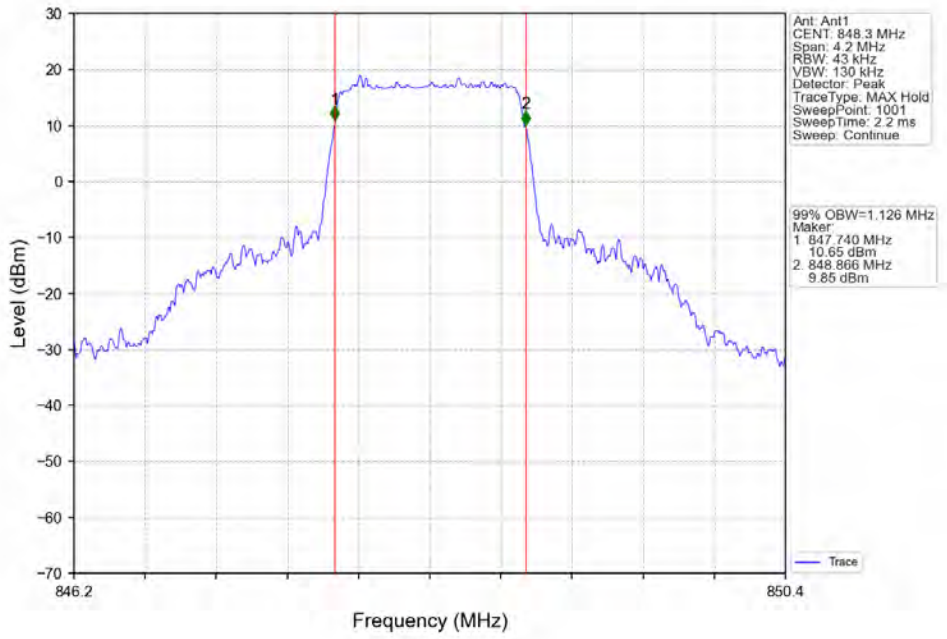
Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



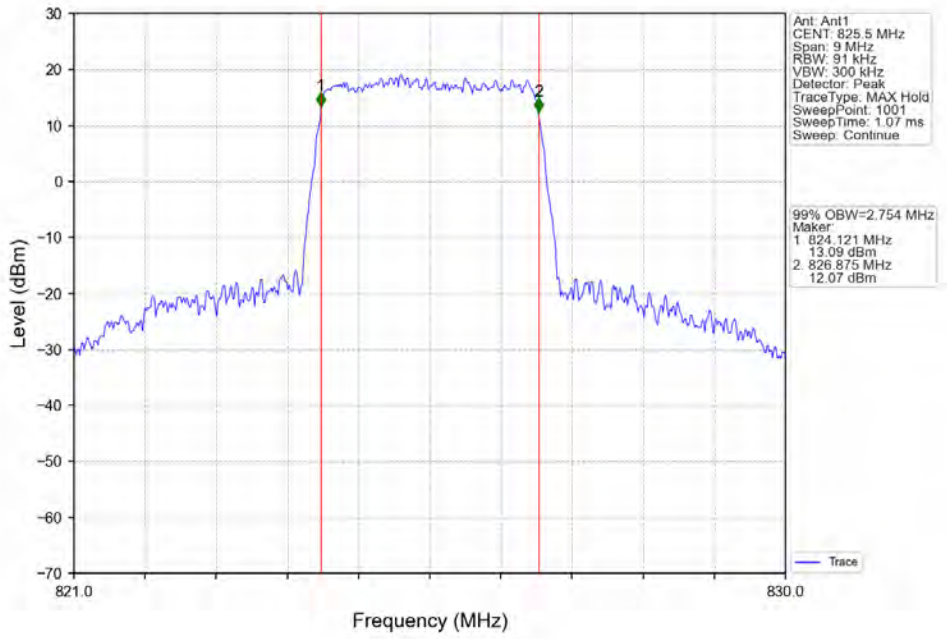
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



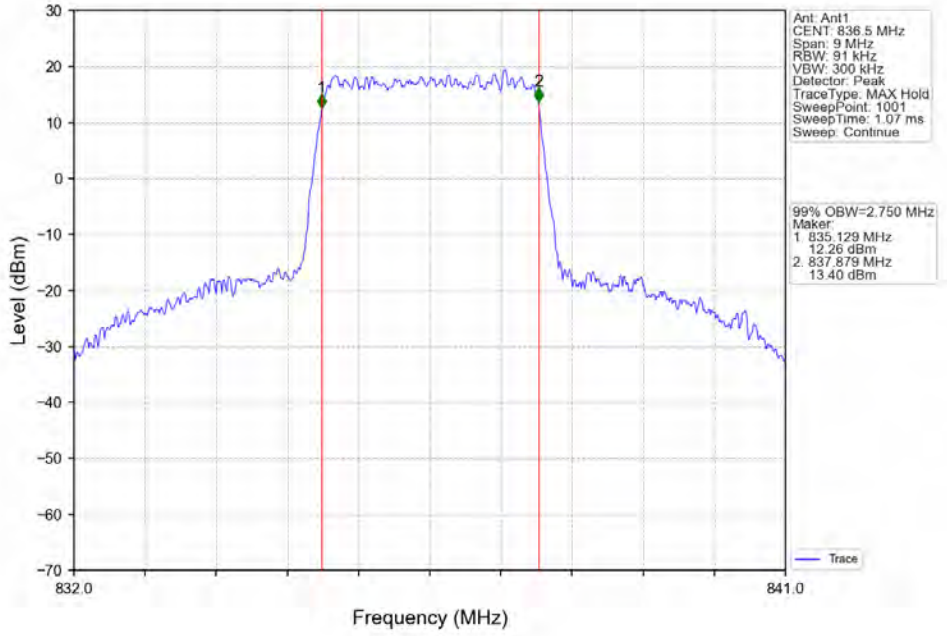
Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



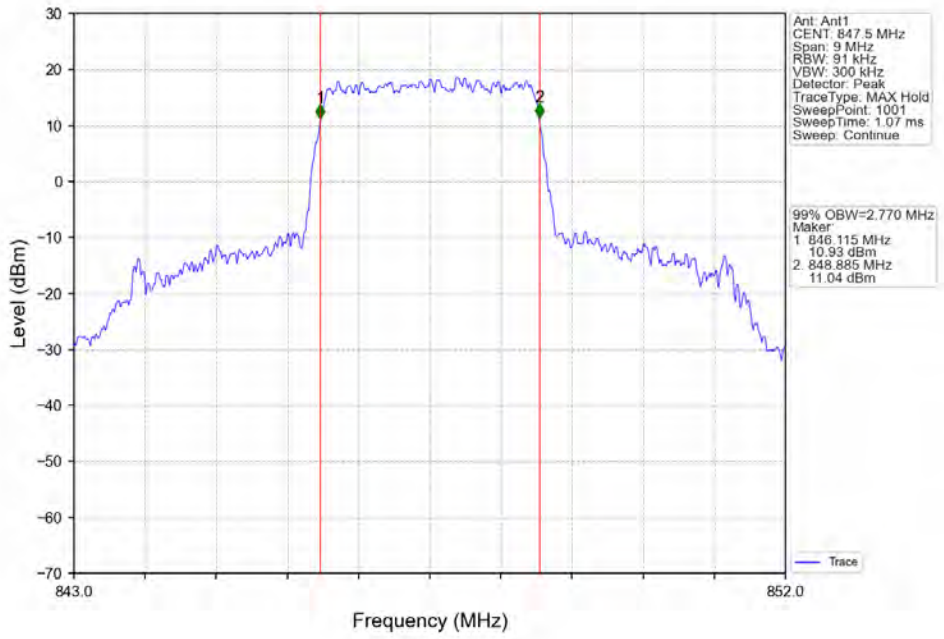
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



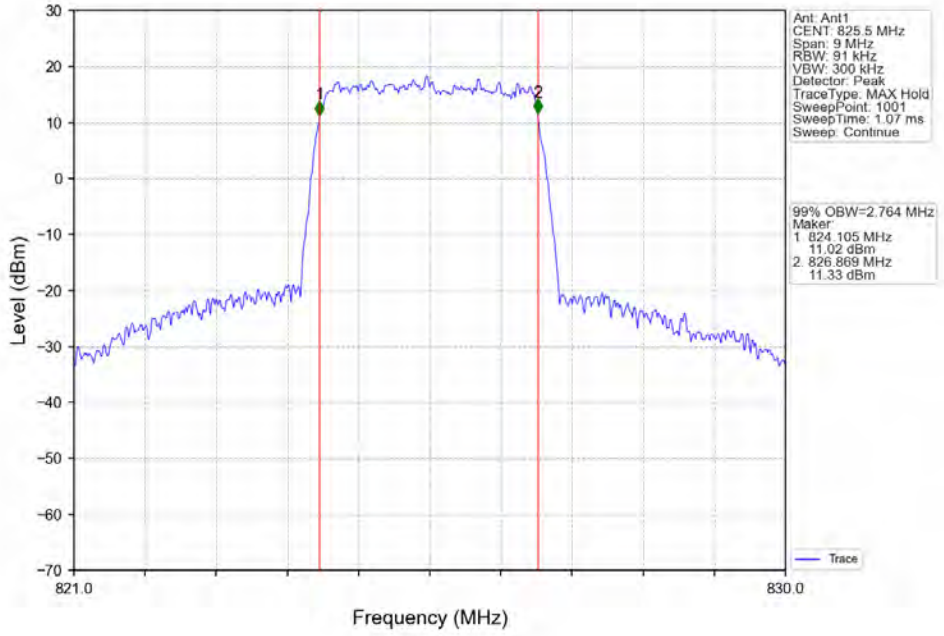
Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



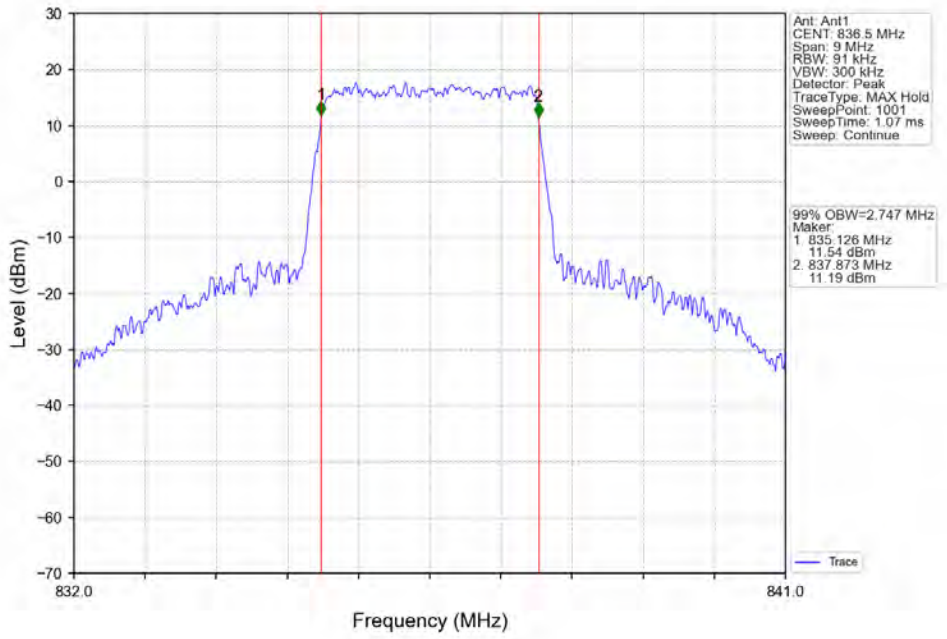
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



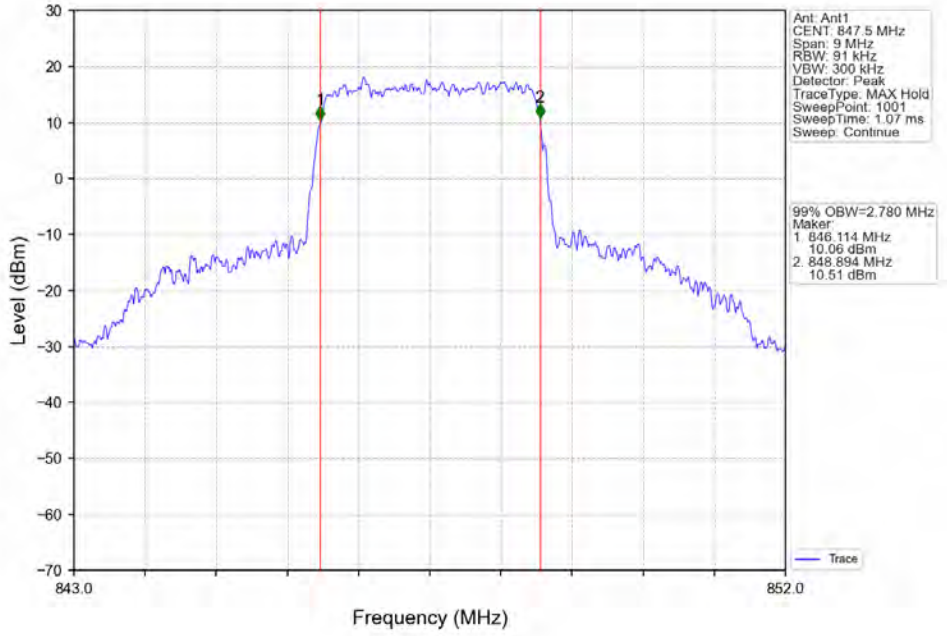
Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



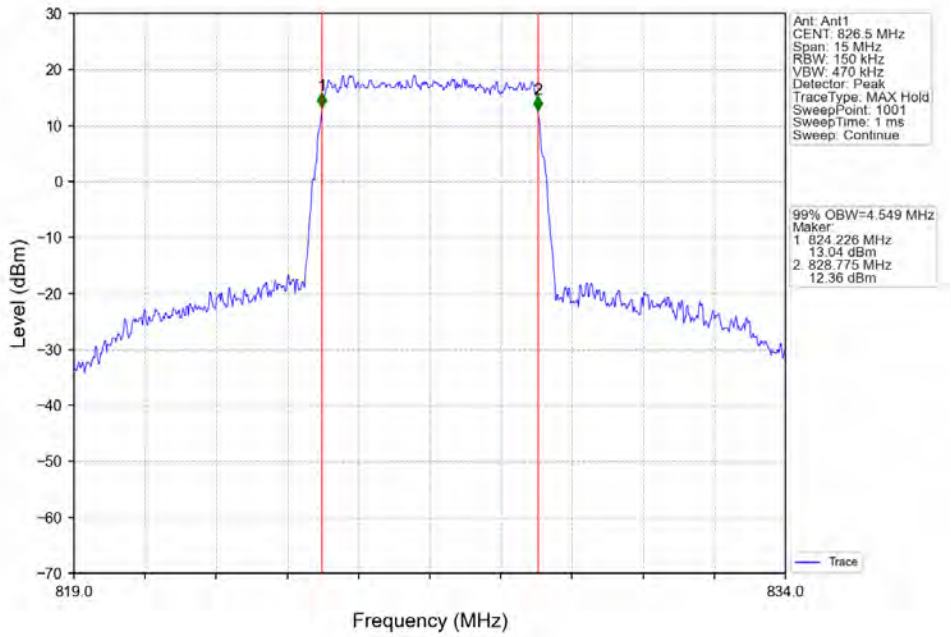
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



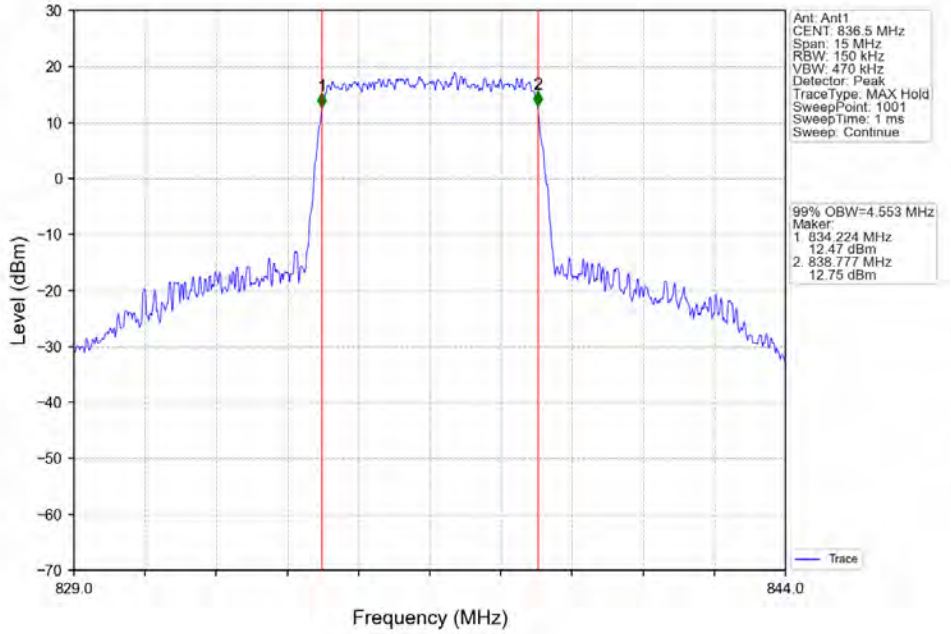
Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



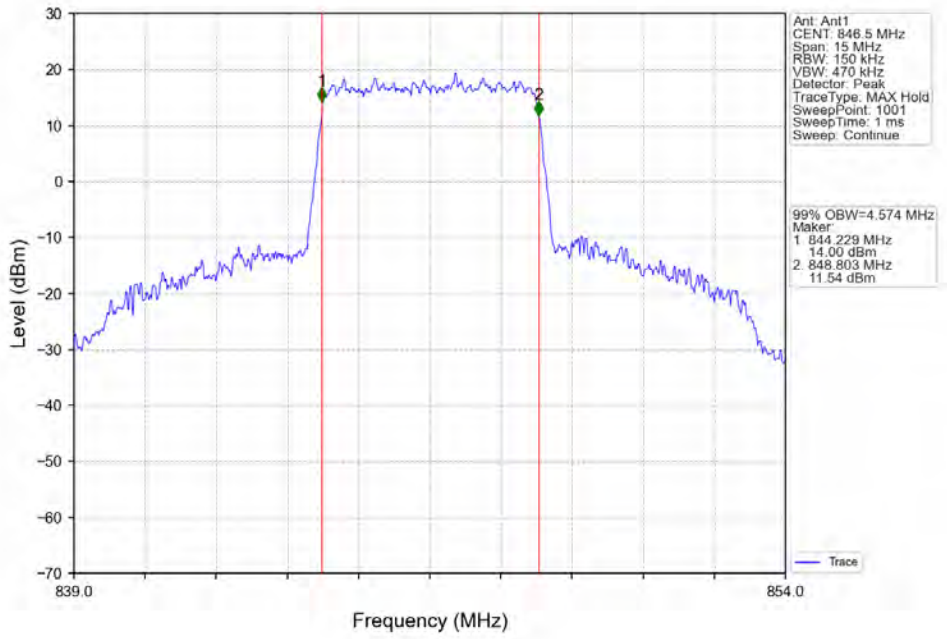
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



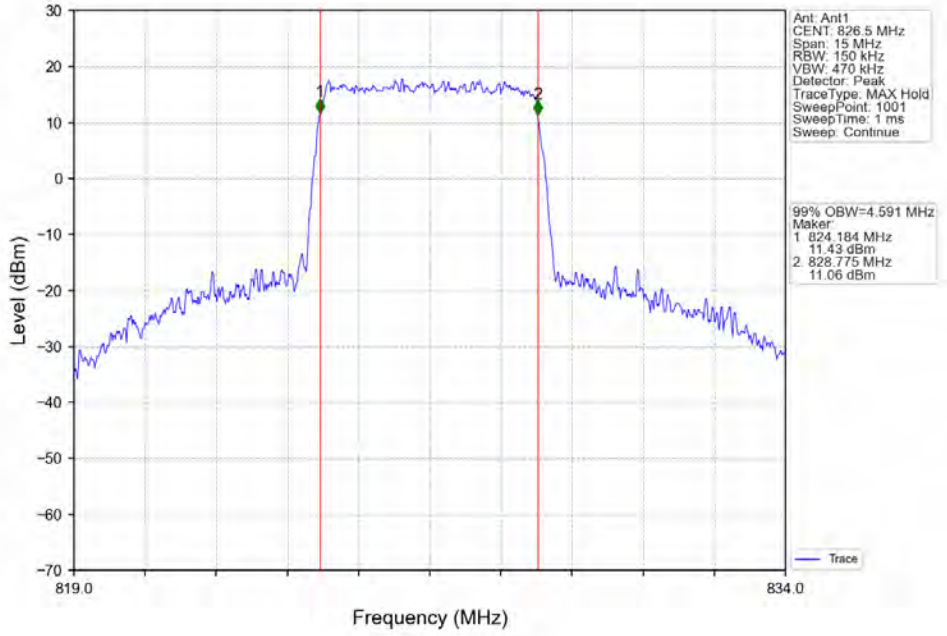
Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



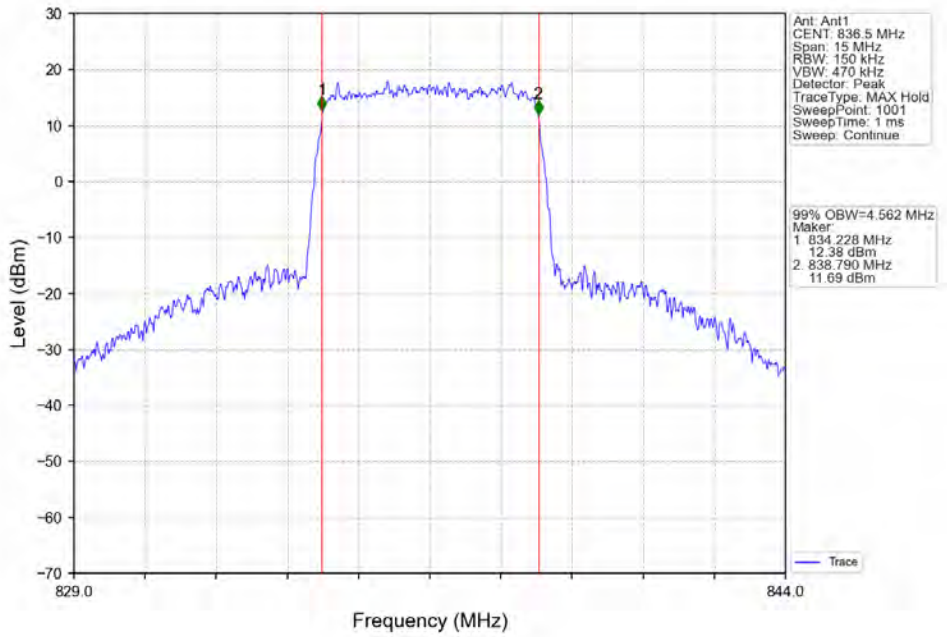
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



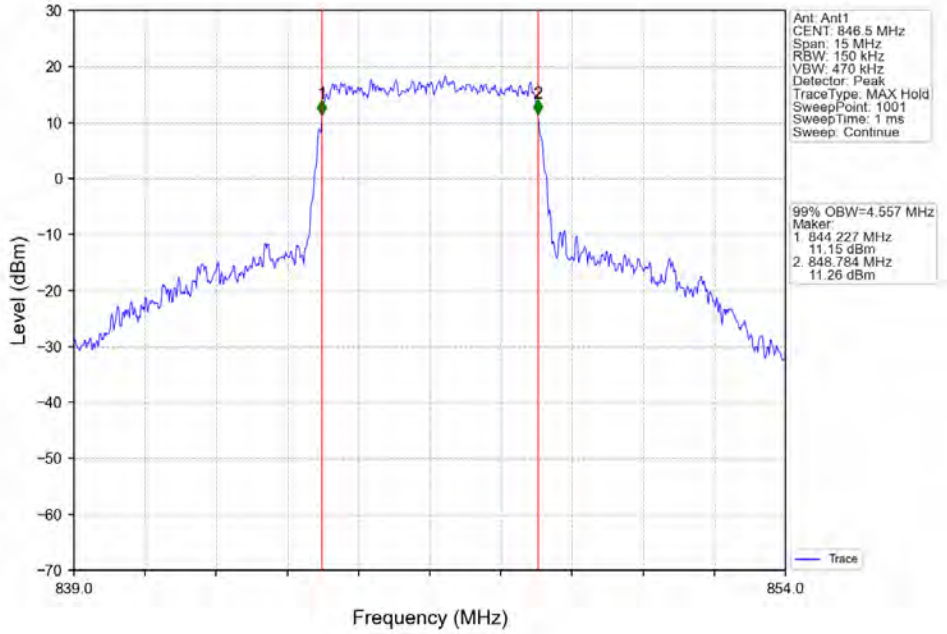
Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



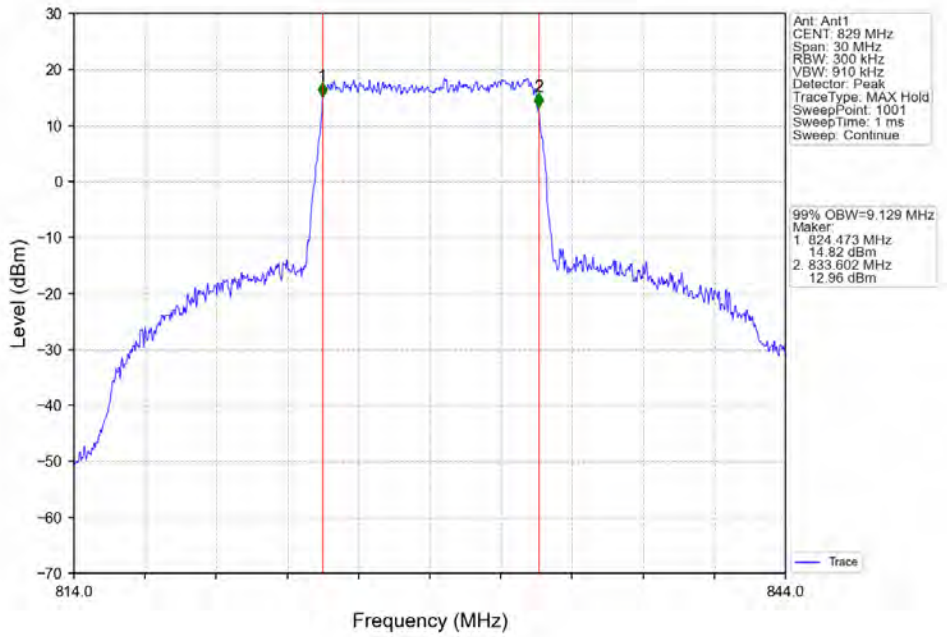
Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



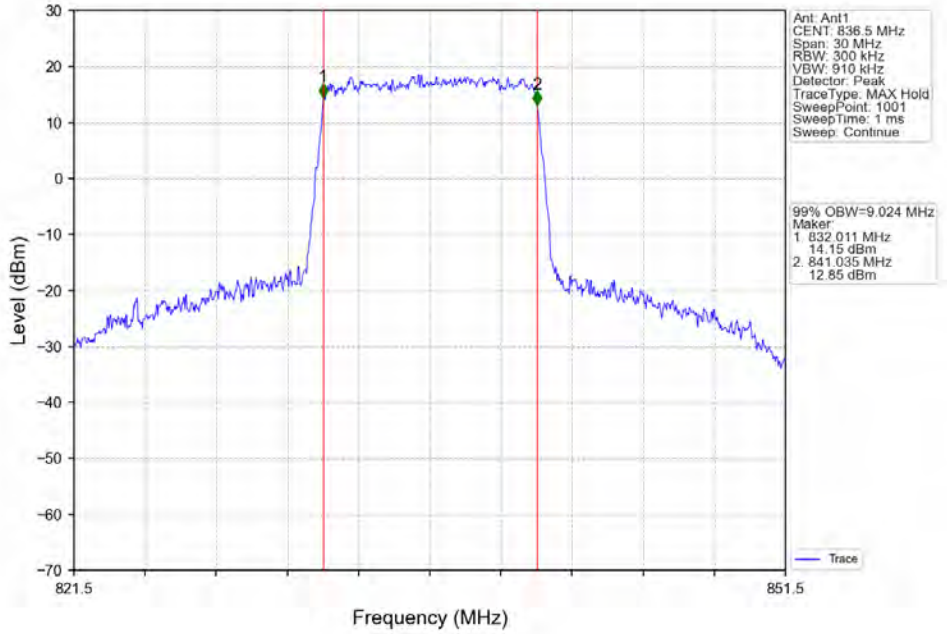
Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



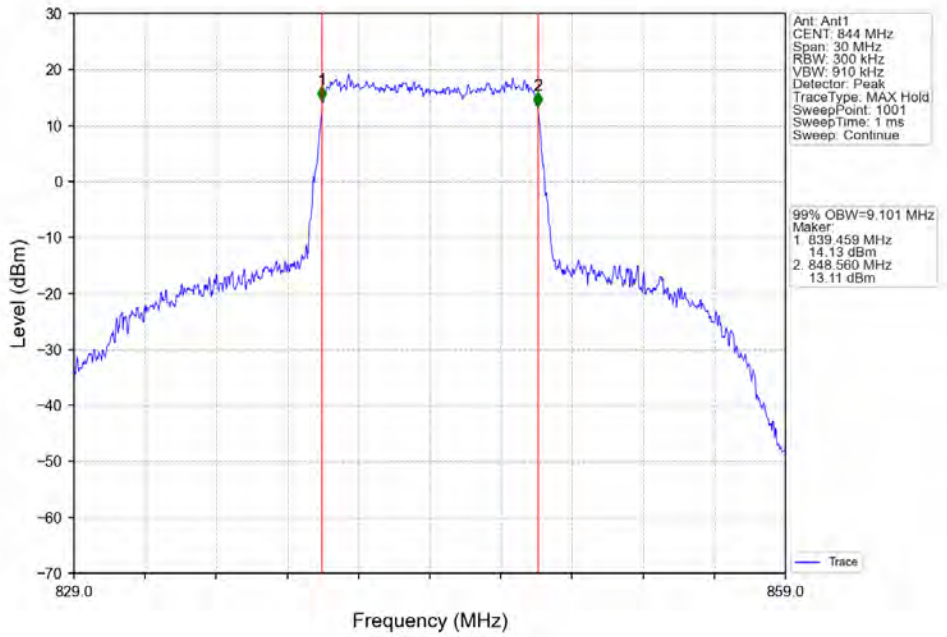
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



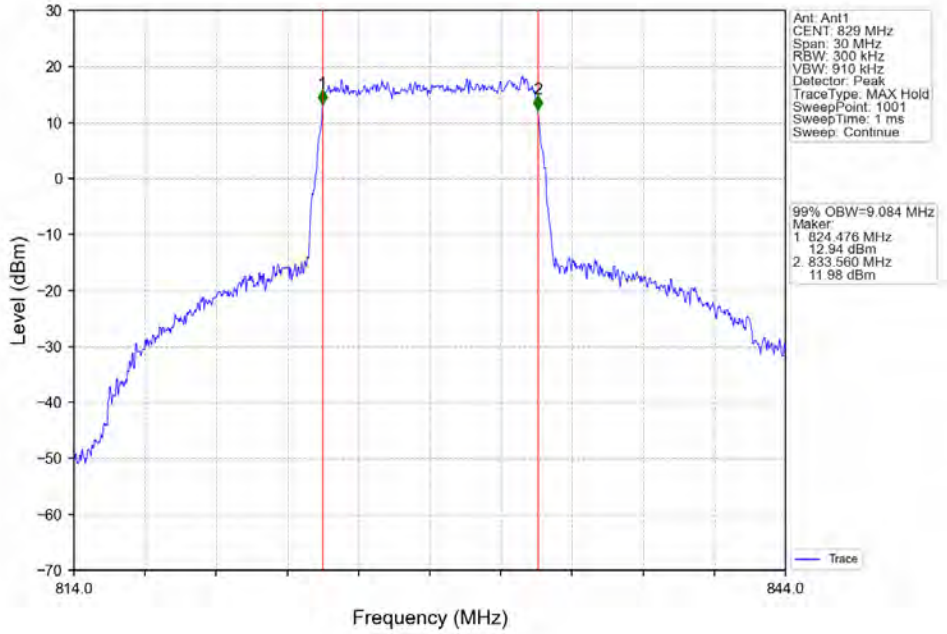
Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



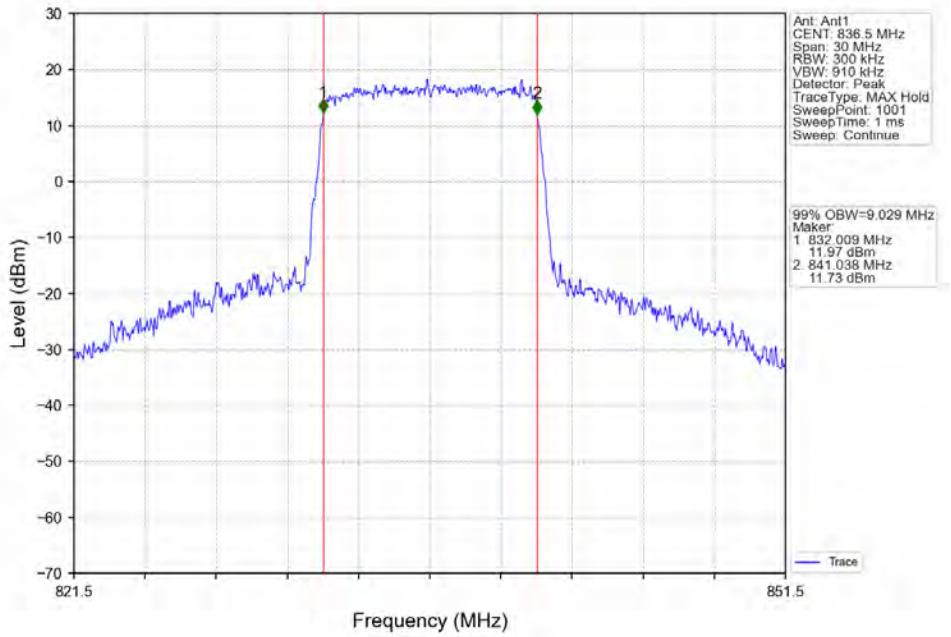
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



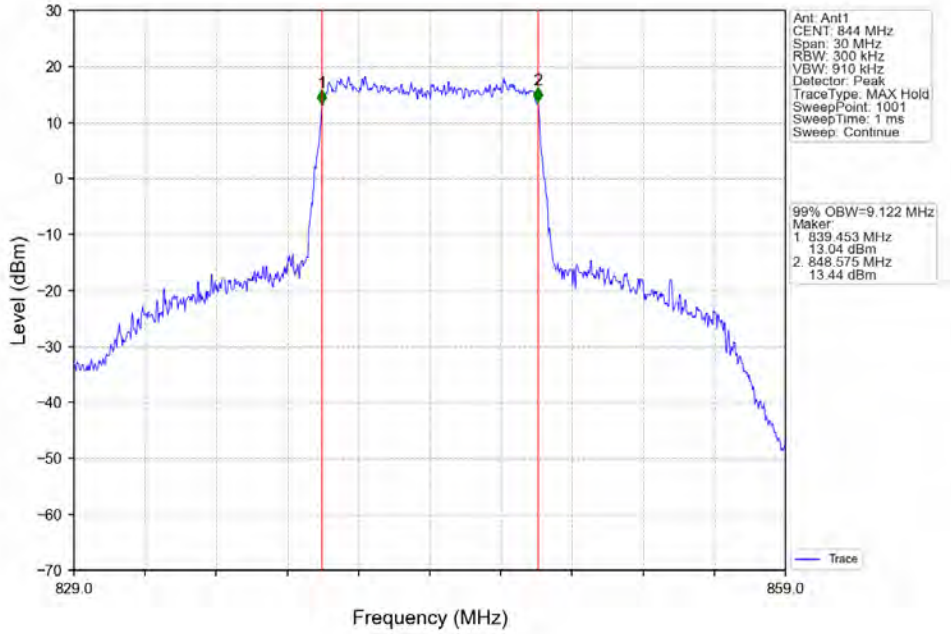
Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV



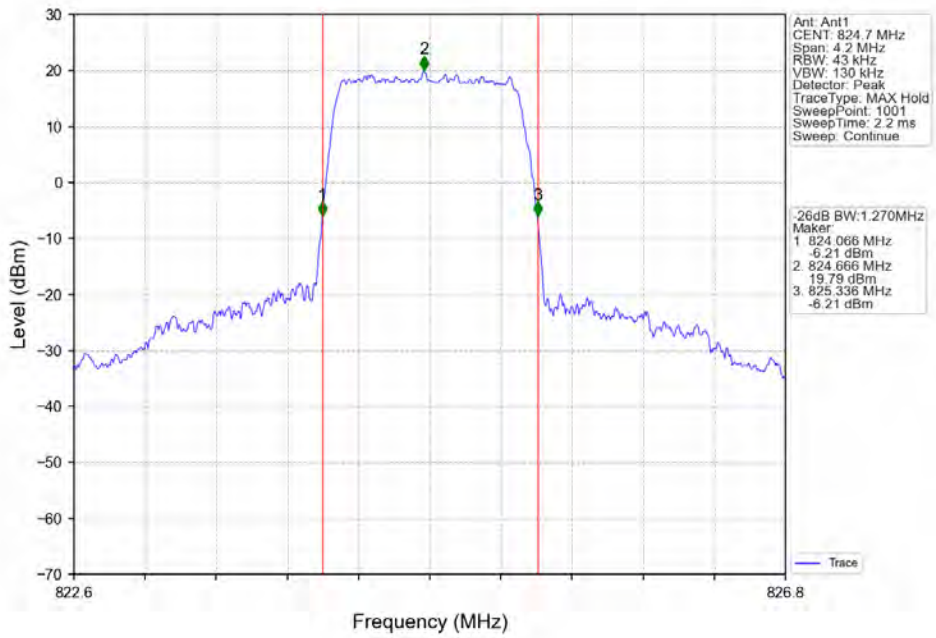
4.2 Band5_XDB

4.2.1 Test Result

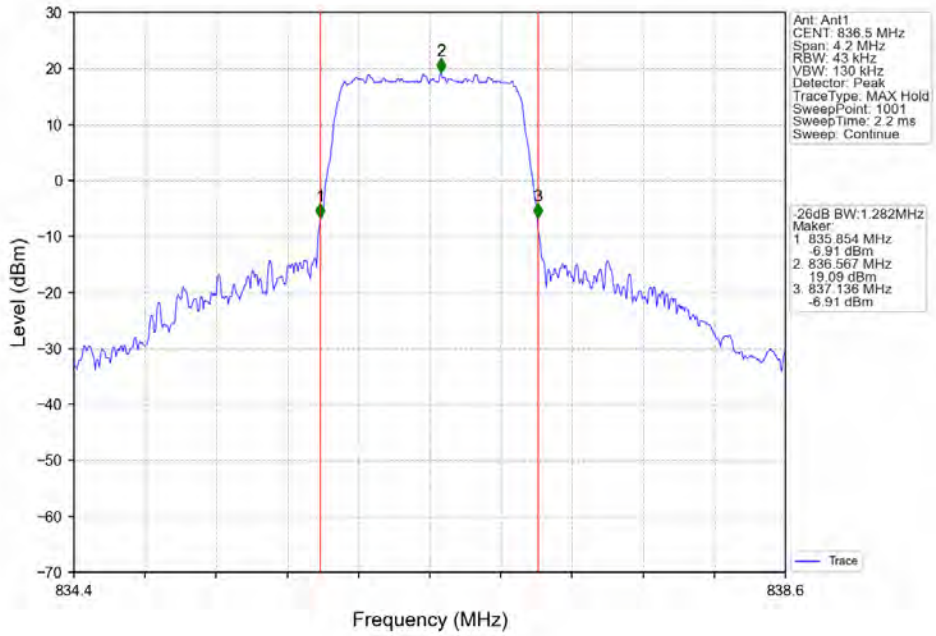
Band: 5 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.270	/	Pass
		836.5	6	0	1.282	/	Pass
		848.3	6	0	1.292	/	Pass
	16QAM	824.7	6	0	1.283	/	Pass
		836.5	6	0	1.266	/	Pass
		848.3	6	0	1.283	/	Pass
3	QPSK	825.5	15	0	3.106	/	Pass
		836.5	15	0	3.083	/	Pass
		847.5	15	0	3.136	/	Pass
	16QAM	825.5	15	0	3.107	/	Pass
		836.5	15	0	3.103	/	Pass
		847.5	15	0	3.102	/	Pass
5	QPSK	826.5	25	0	5.062	/	Pass
		836.5	25	0	5.057	/	Pass
		846.5	25	0	5.068	/	Pass
	16QAM	826.5	25	0	5.076	/	Pass
		836.5	25	0	5.066	/	Pass
		846.5	25	0	5.079	/	Pass
10	QPSK	829	50	0	10.093	/	Pass
		836.5	50	0	10.005	/	Pass
		844	50	0	10.052	/	Pass
	16QAM	829	50	0	10.078	/	Pass
		836.5	50	0	9.998	/	Pass
		844	50	0	10.055	/	Pass

4.2.2 Test Graph

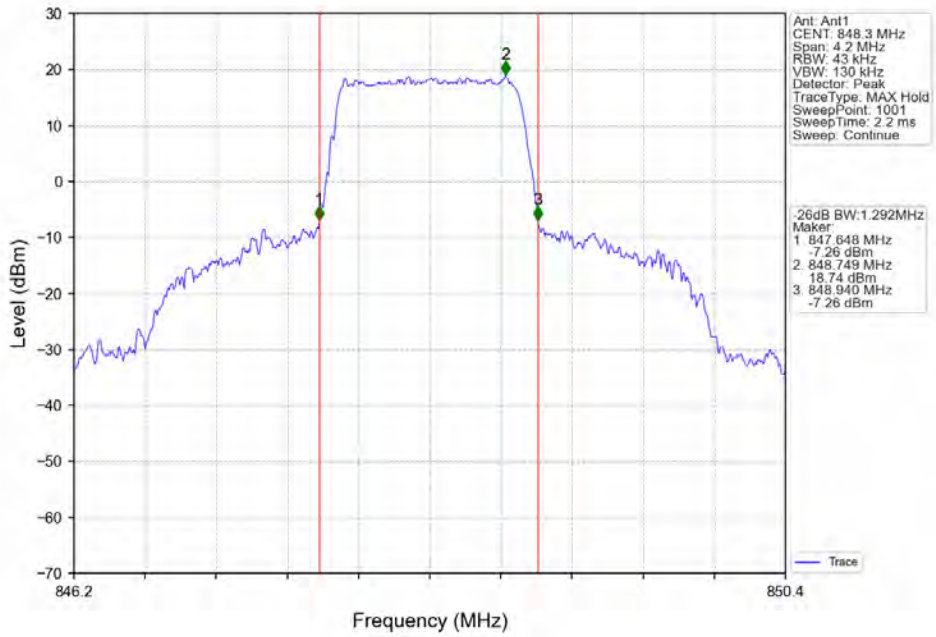
Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



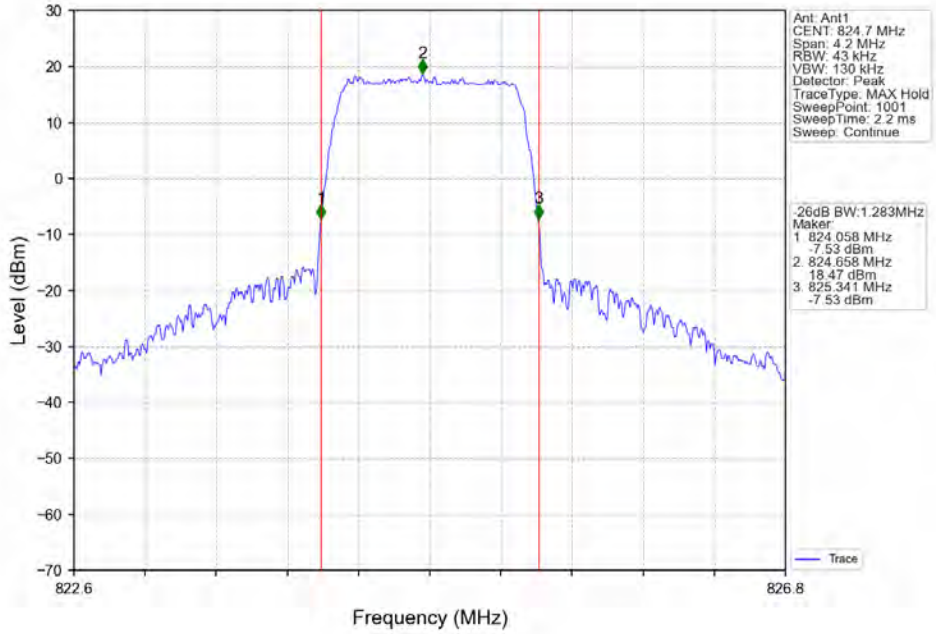
Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV



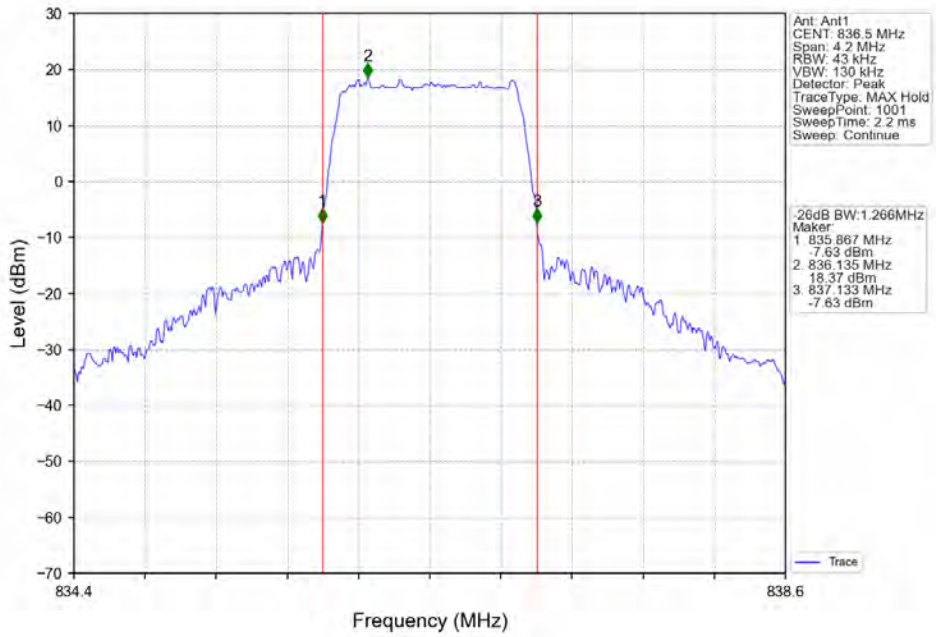
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



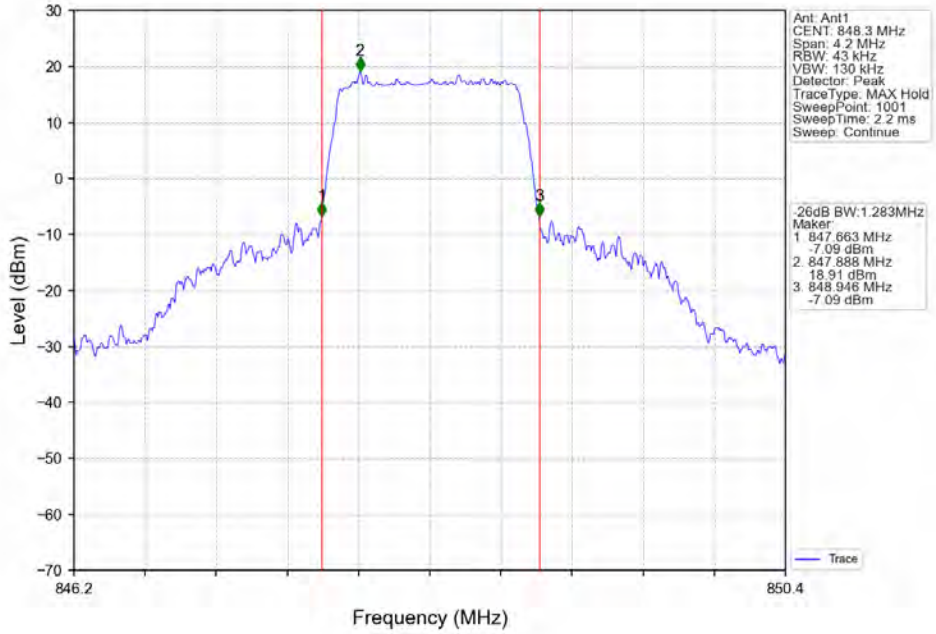
Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



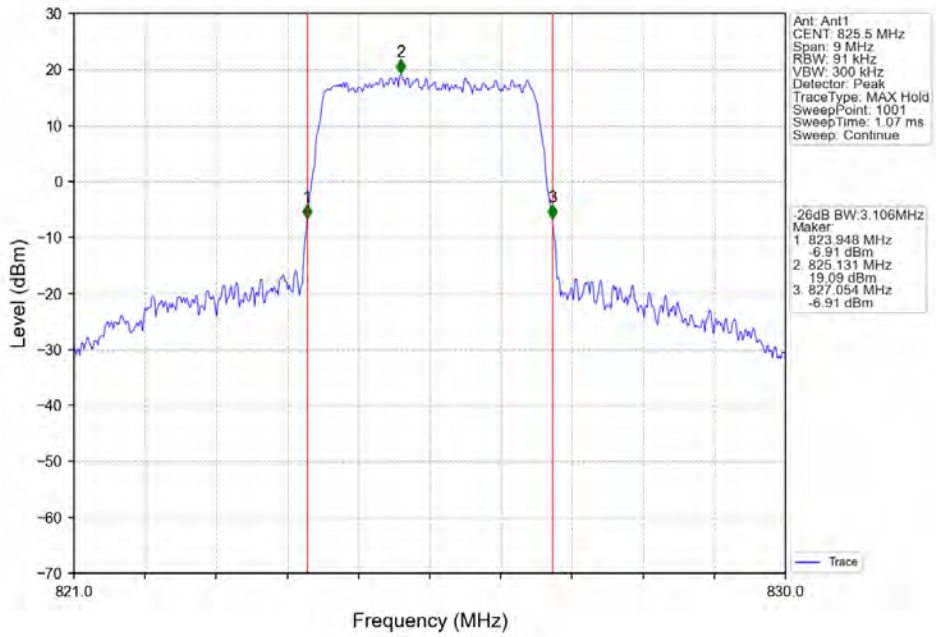
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



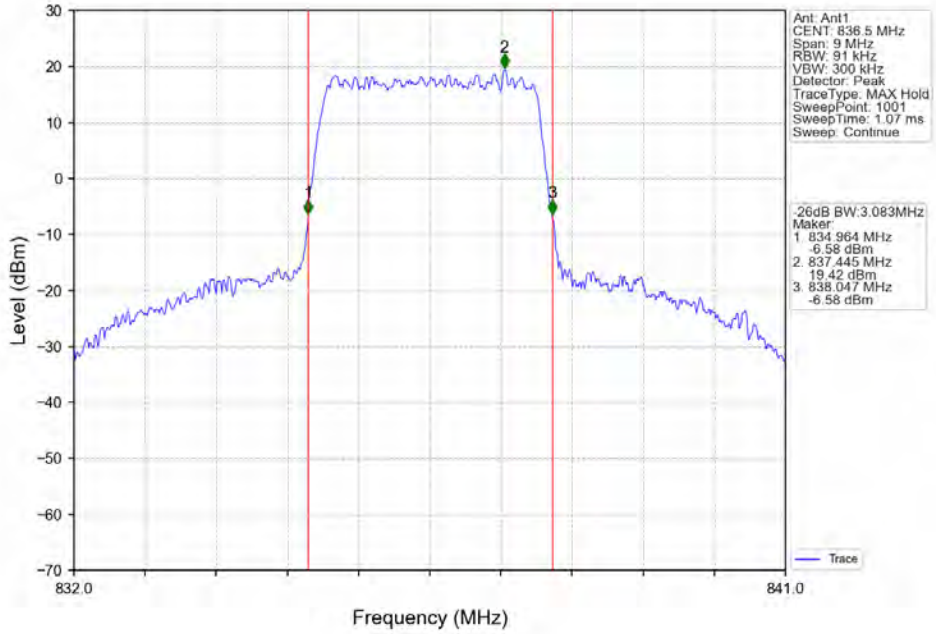
Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



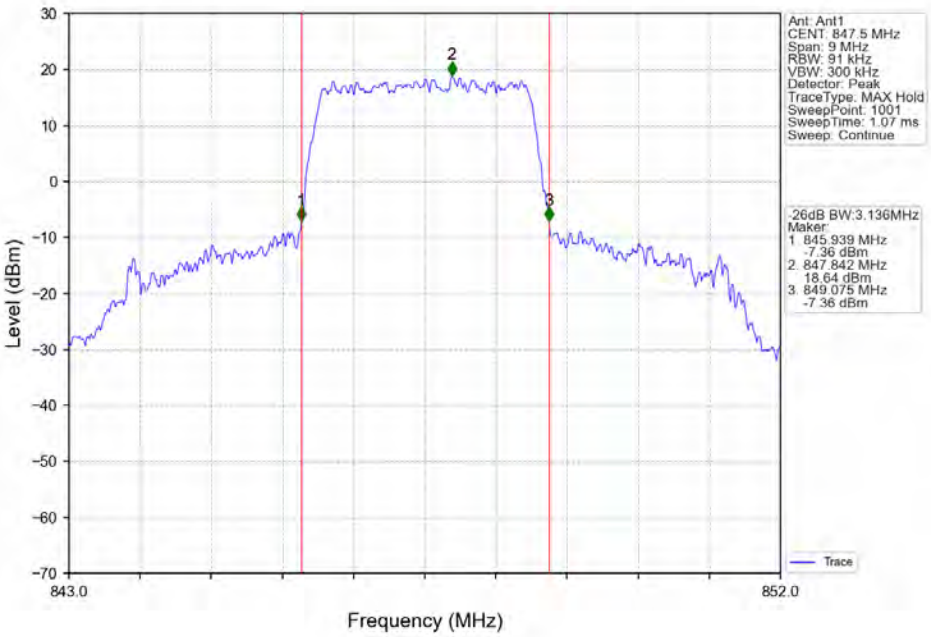
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



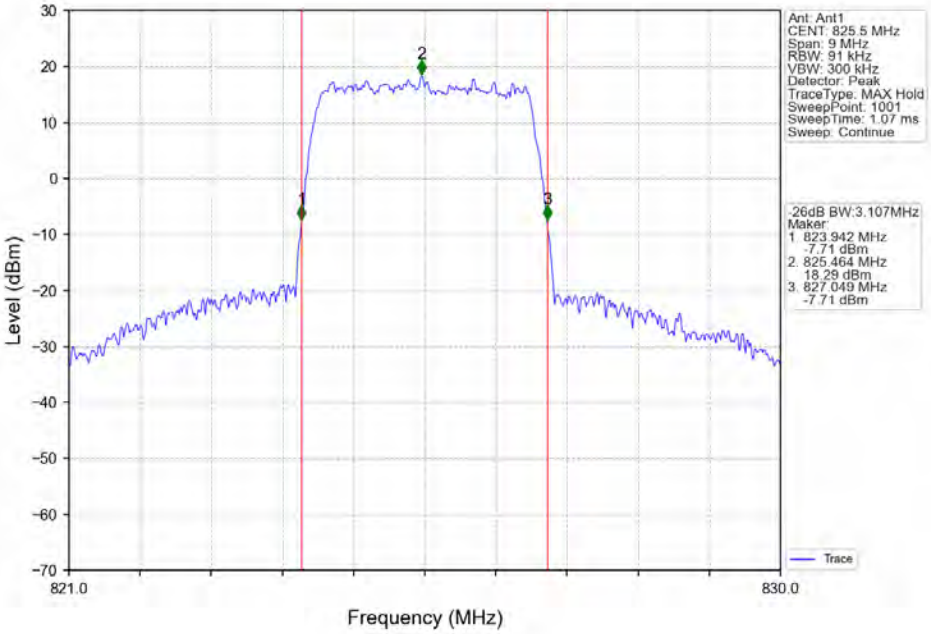
Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



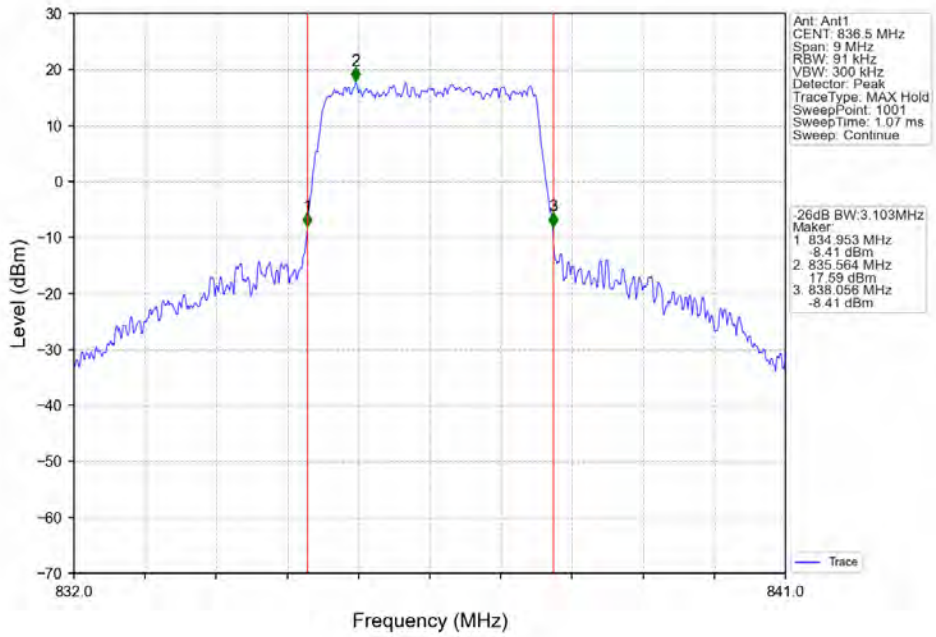
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



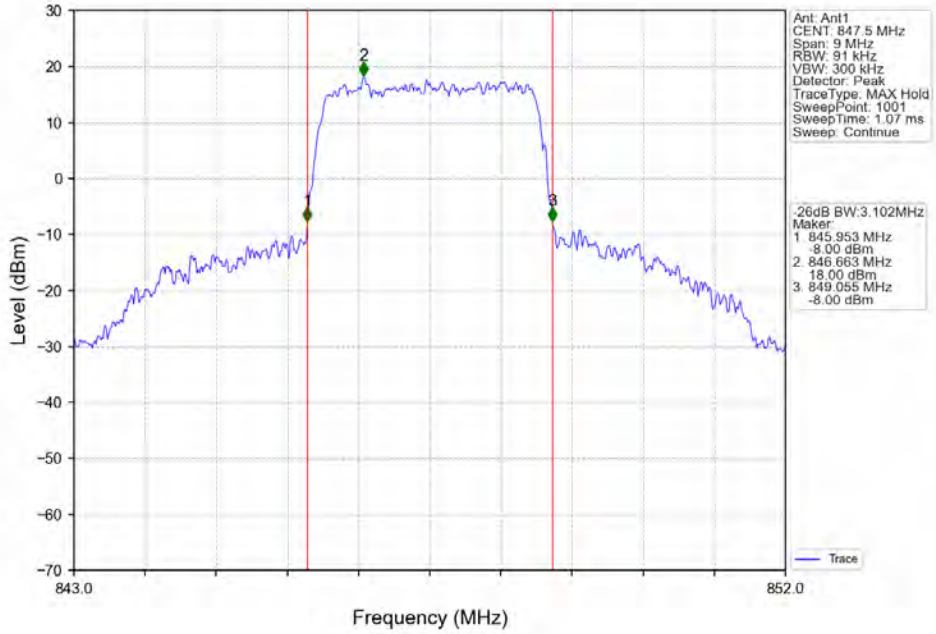
Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



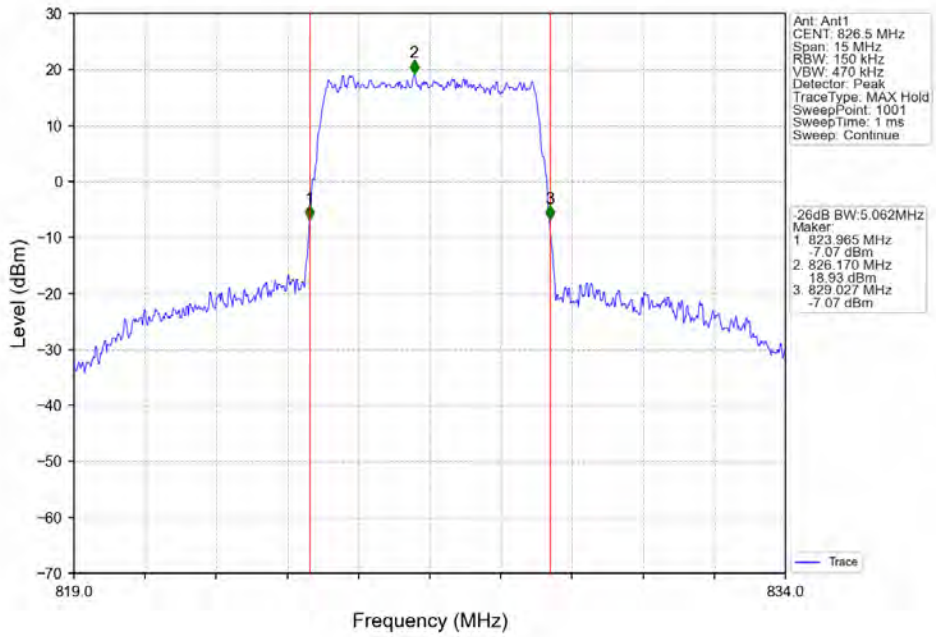
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



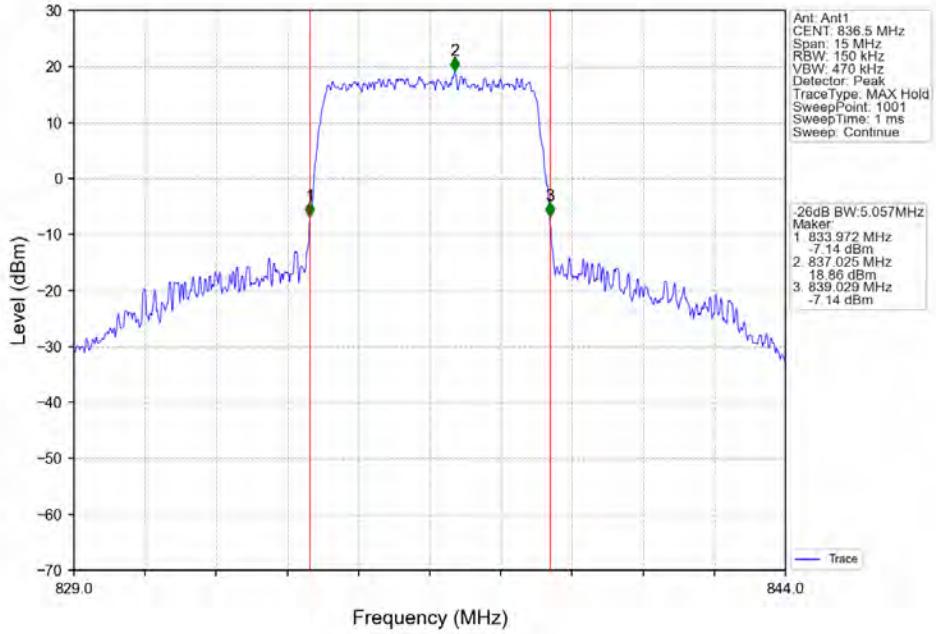
Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



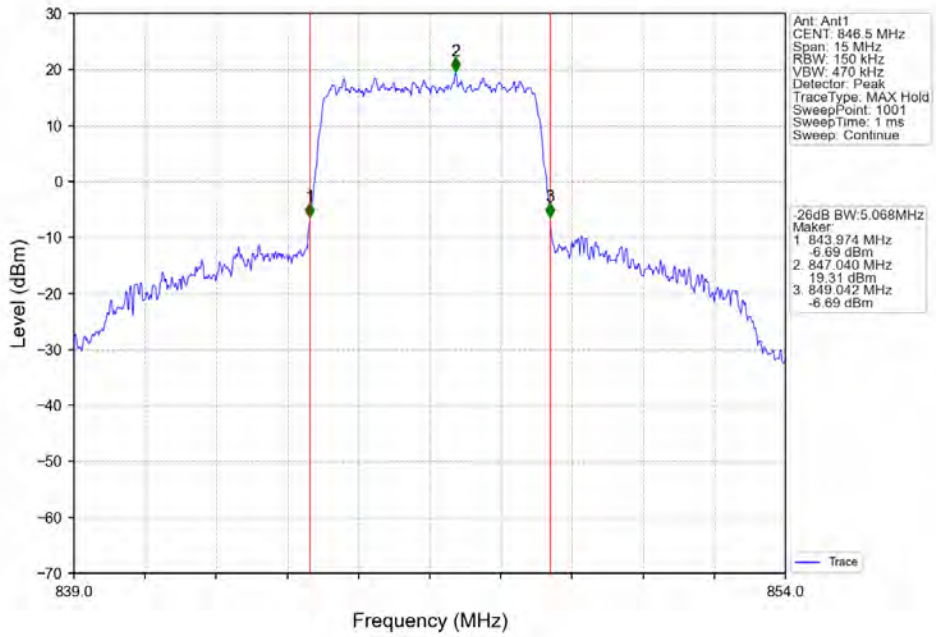
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



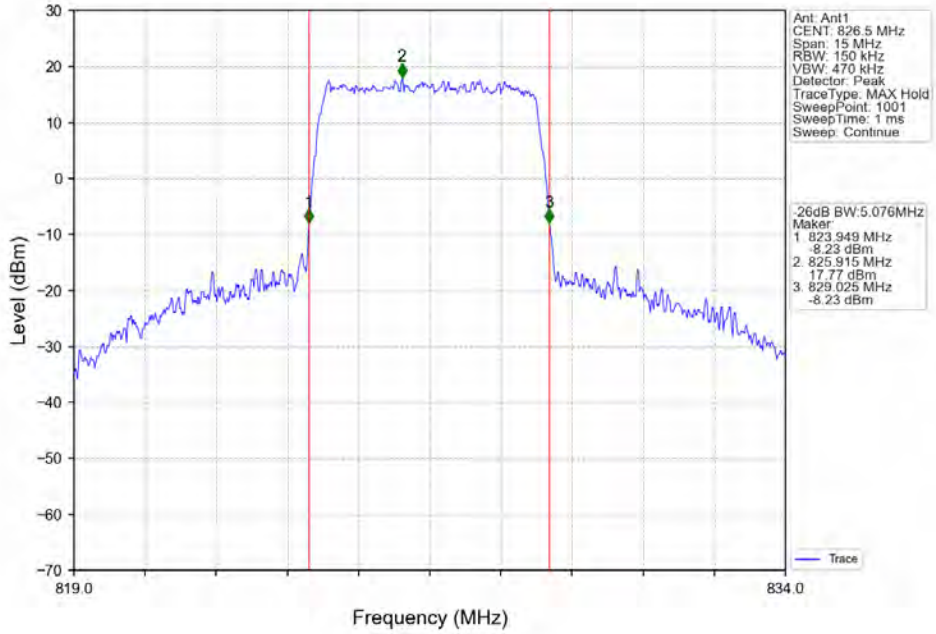
Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



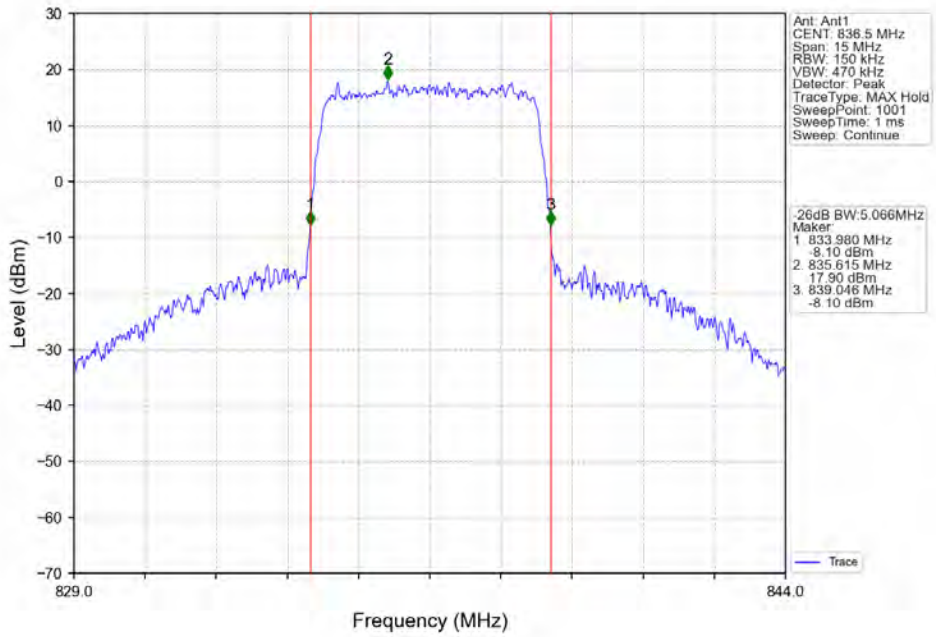
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



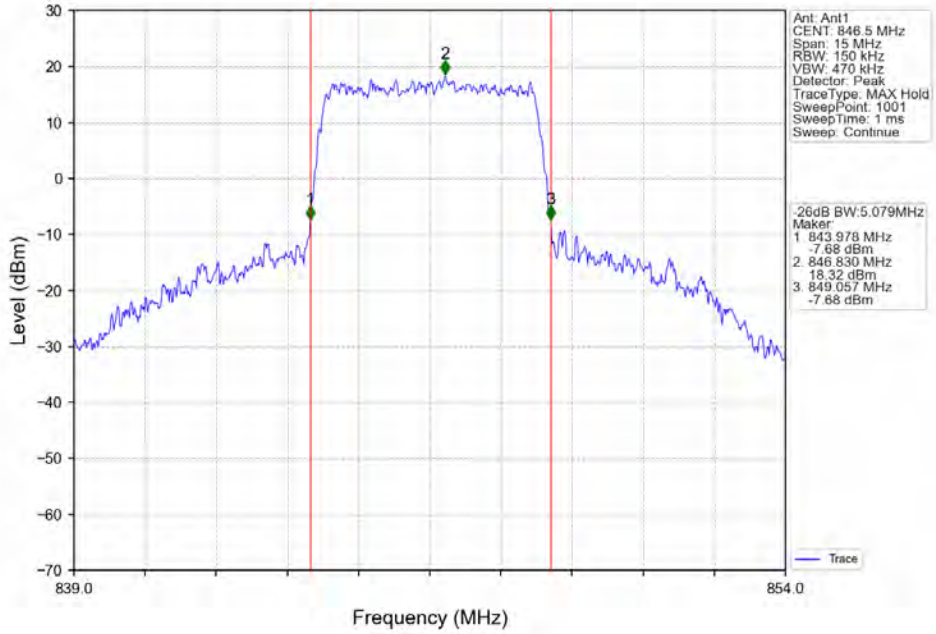
Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



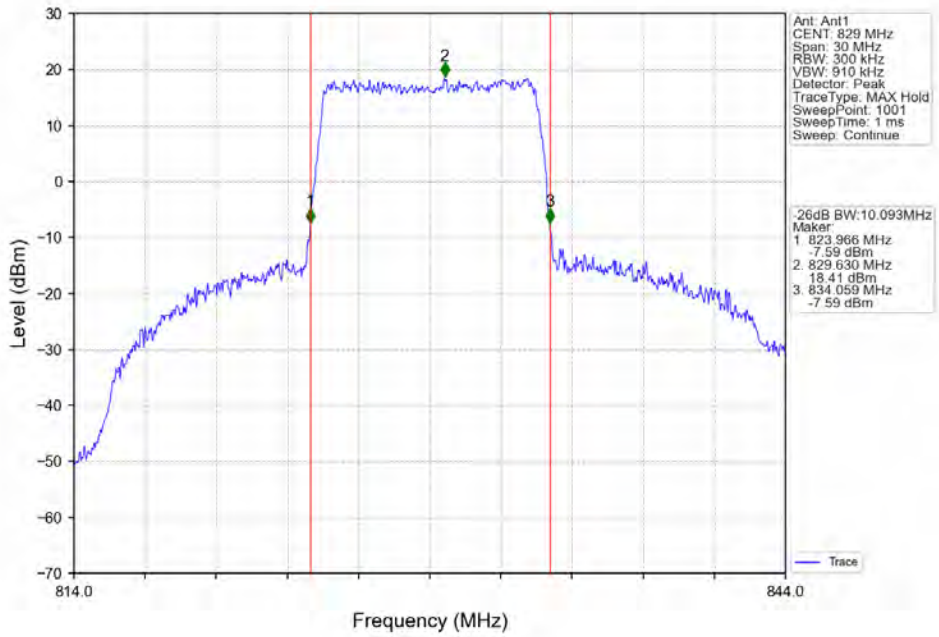
Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



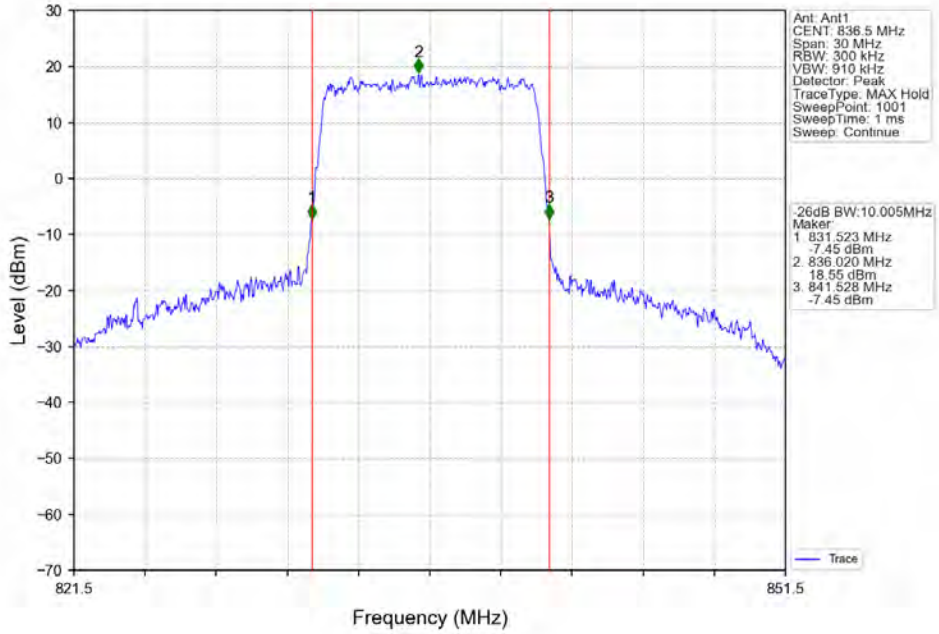
Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



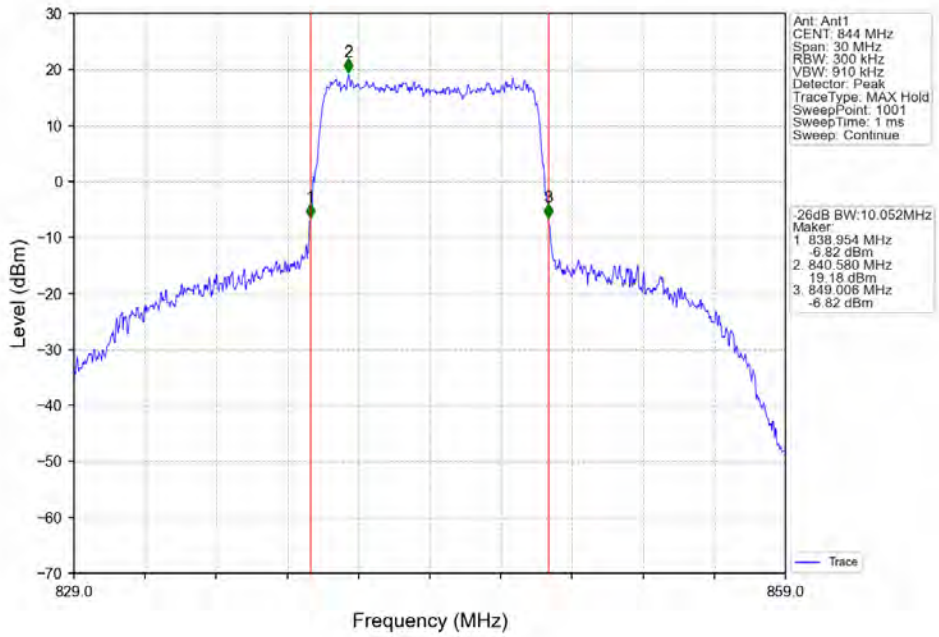
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



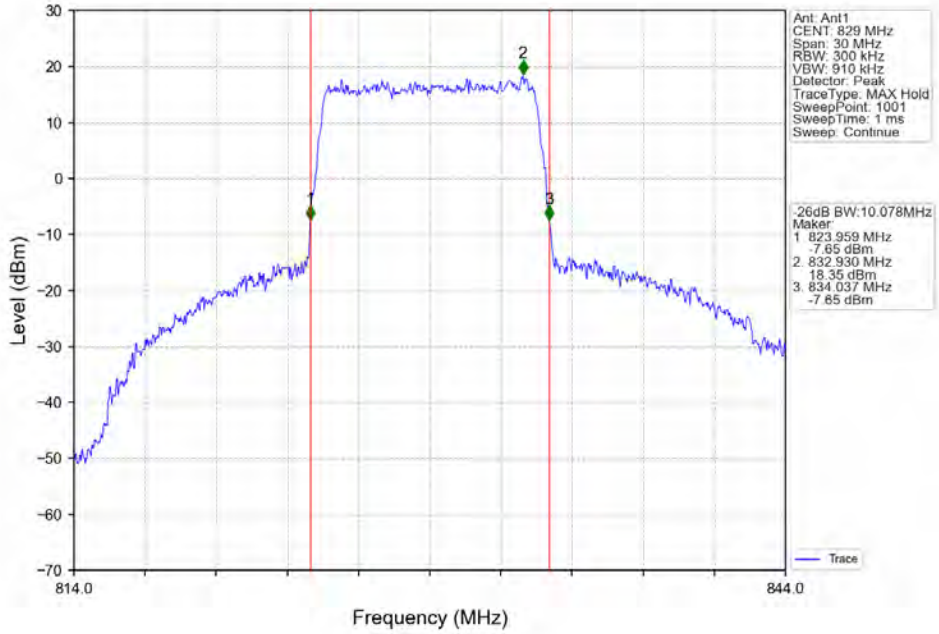
Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



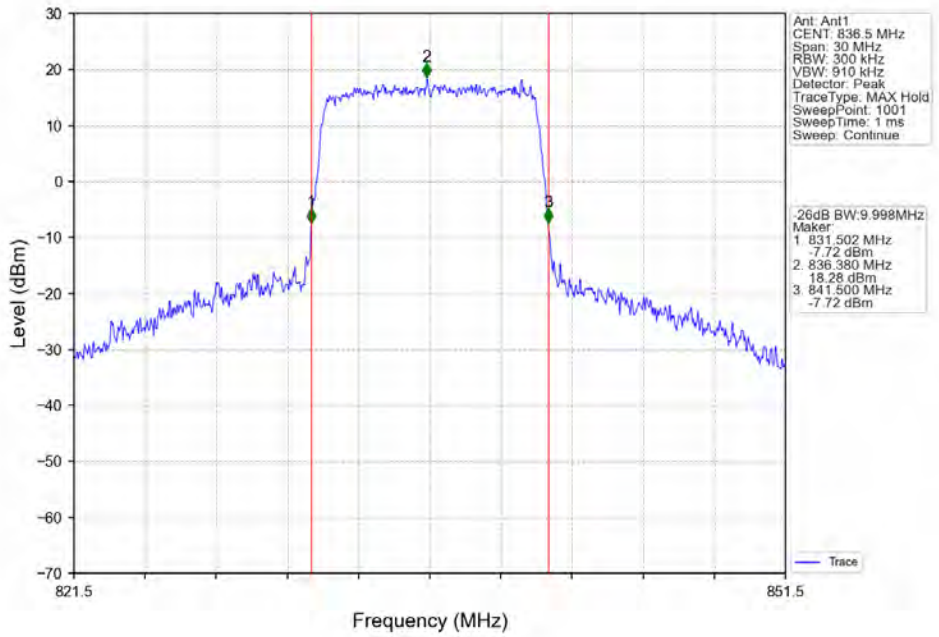
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



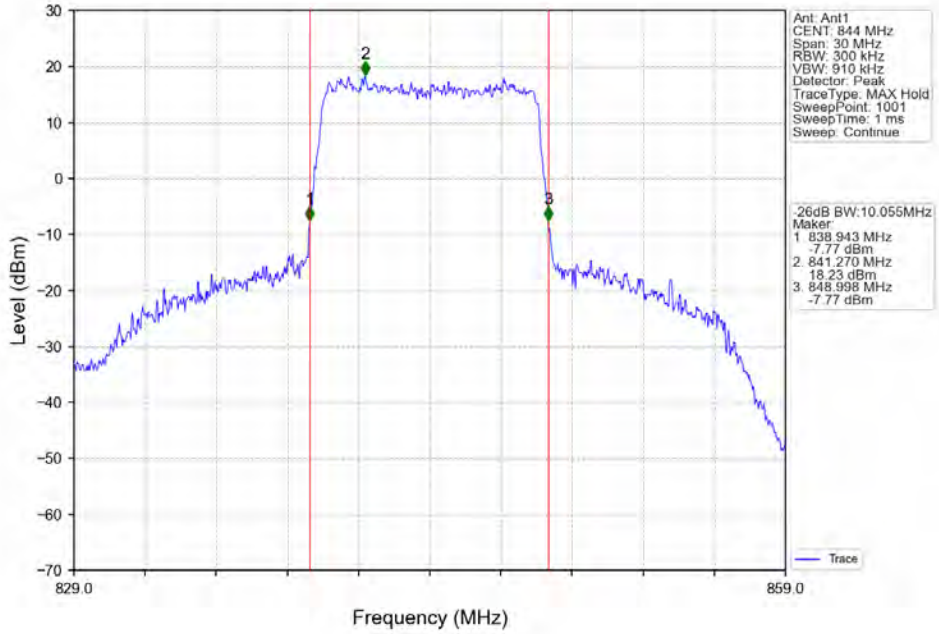
Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV



5. Peak-Average Ratio

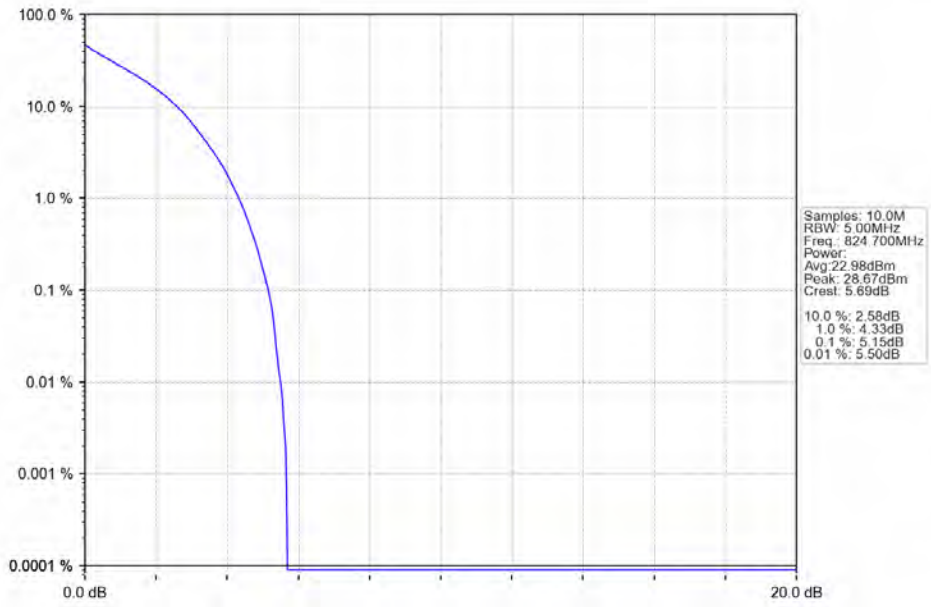
5.1 B5_1.4MHz

5.1.1 Test Result

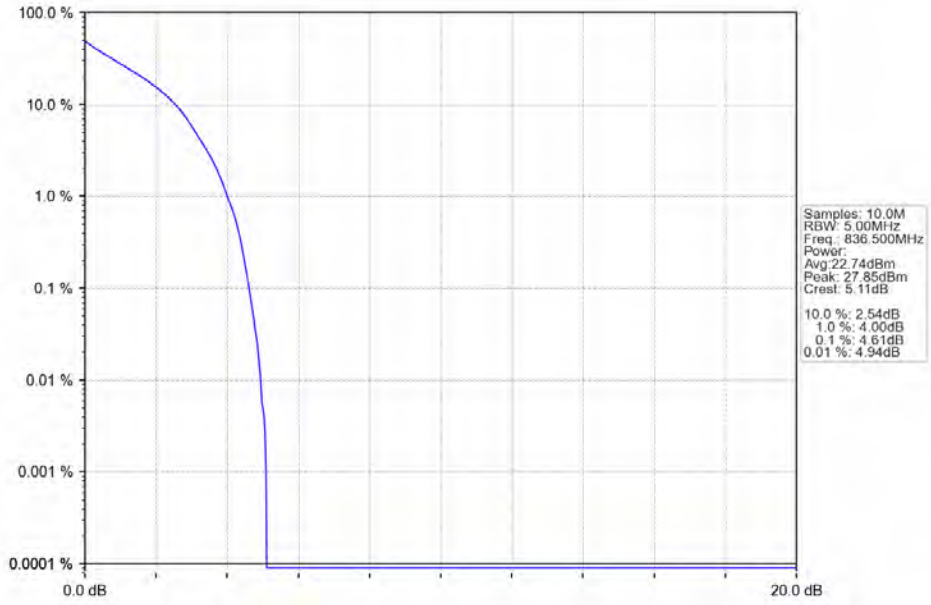
Band: 5 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	824.7	6	0	5.15	<=13	Pass
	836.5	6	0	4.61	<=13	Pass
	848.3	6	0	3.57	<=13	Pass
16QAM	824.7	6	0	5.92	<=13	Pass
	836.5	6	0	5.37	<=13	Pass
	848.3	6	0	4.34	<=13	Pass

5.1.2 Test Graph

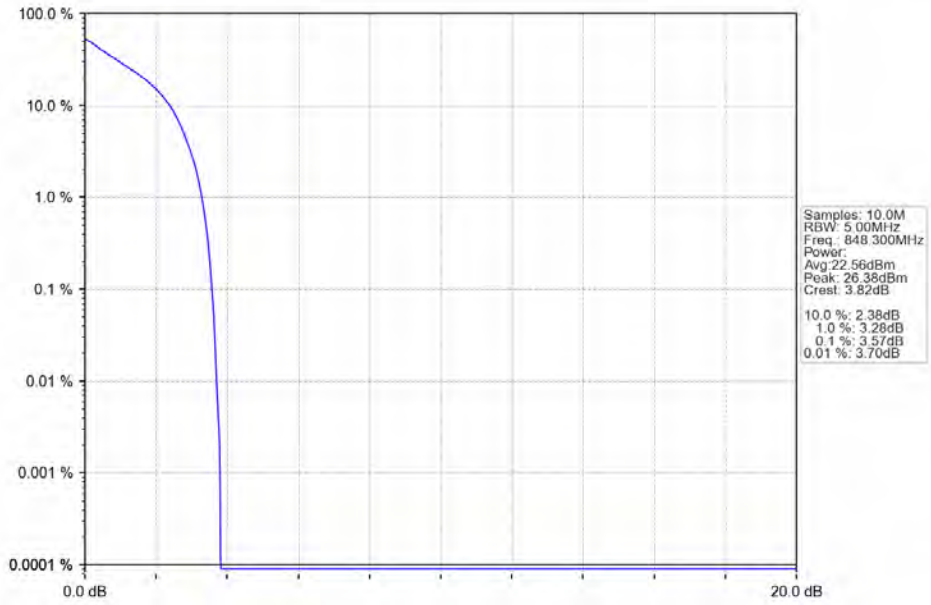
Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



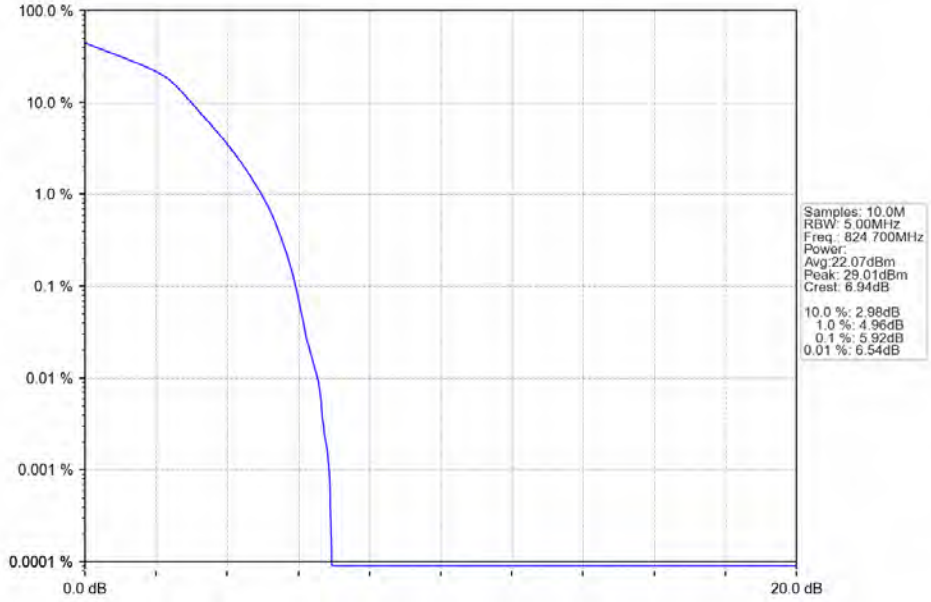
Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV



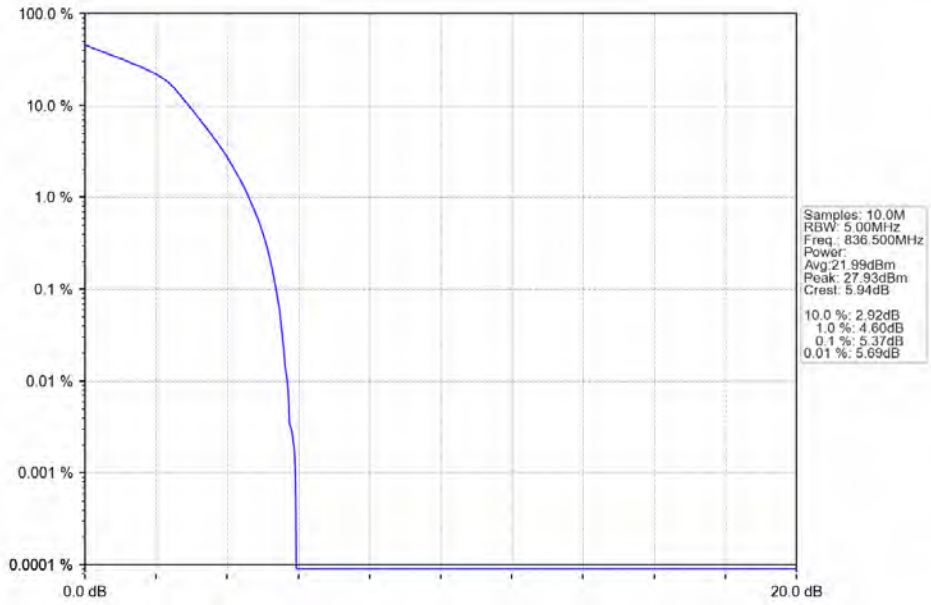
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



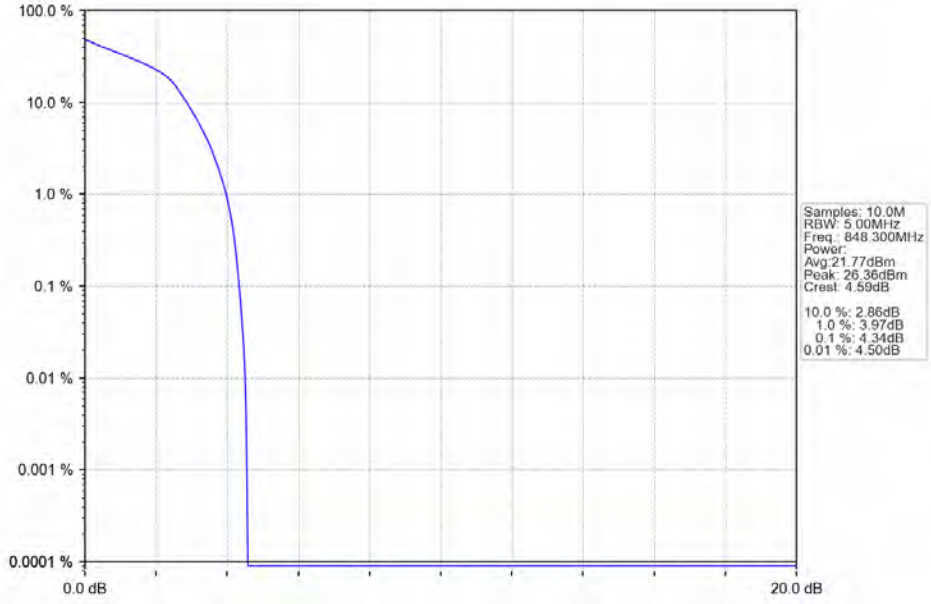
Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



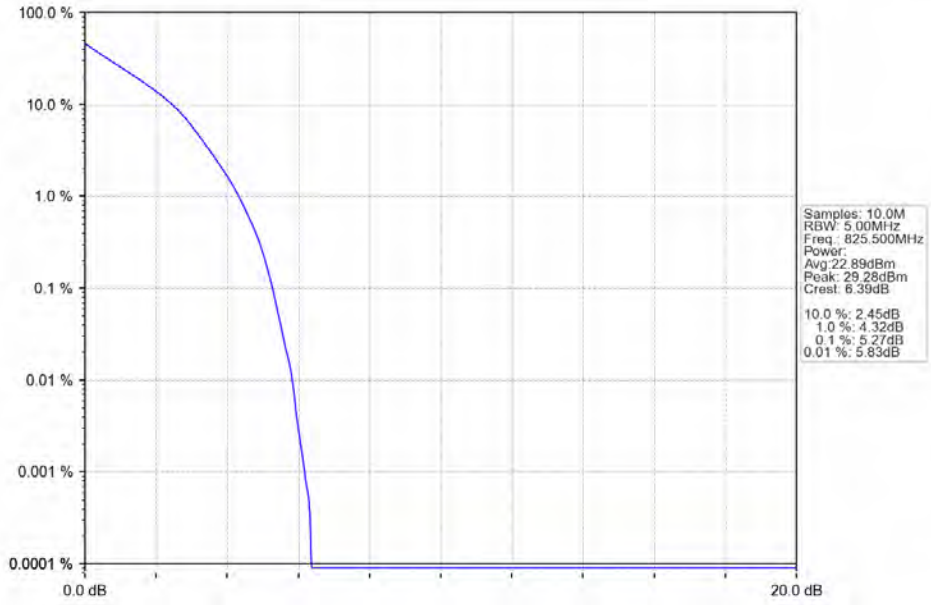
5.2 B5_3MHz

5.2.1 Test Result

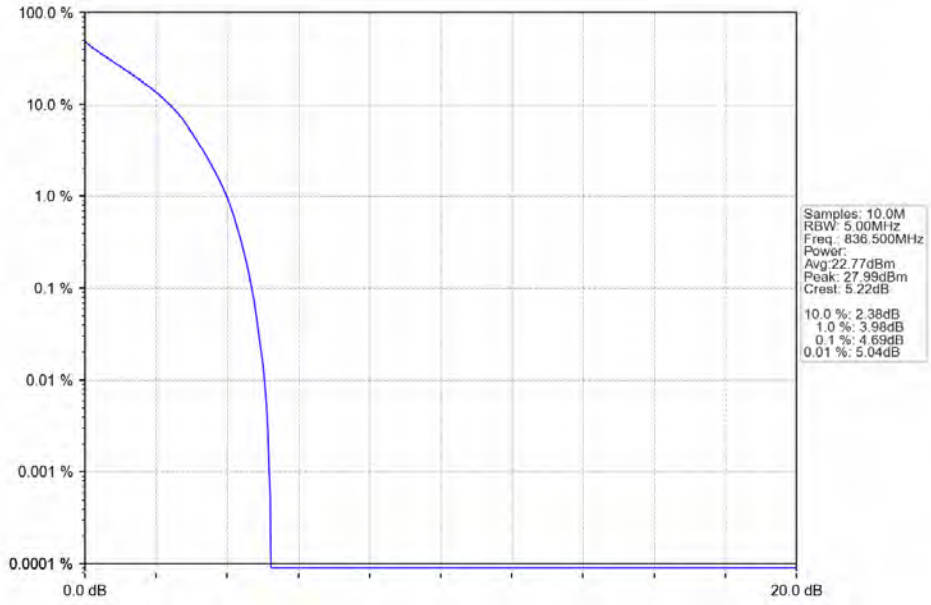
Band: 5 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	825.5	15	0	5.27	<=13	Pass
	836.5	15	0	4.69	<=13	Pass
	847.5	15	0	3.91	<=13	Pass
16QAM	825.5	15	0	6.04	<=13	Pass
	836.5	15	0	5.52	<=13	Pass
	847.5	15	0	4.81	<=13	Pass

5.2.2 Test Graph

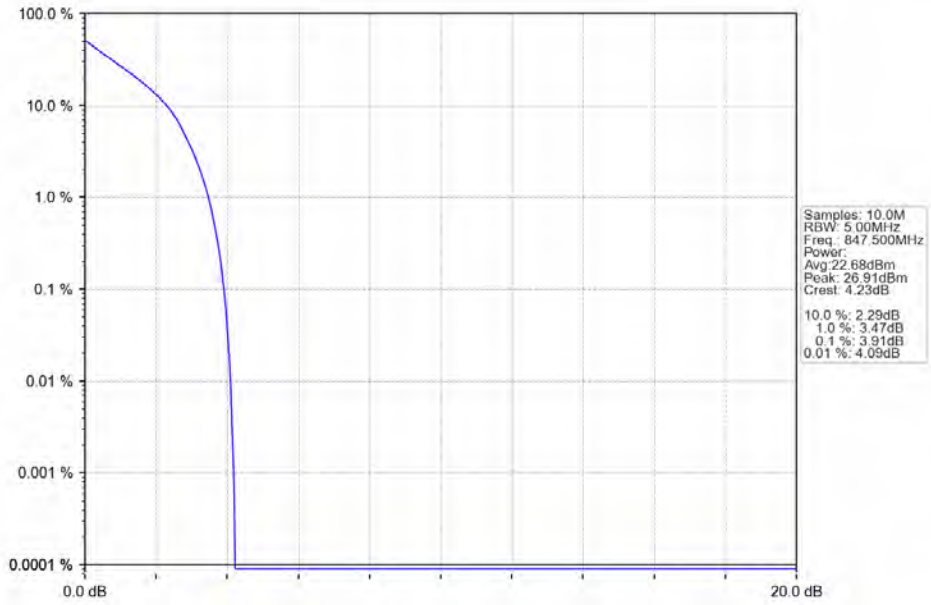
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



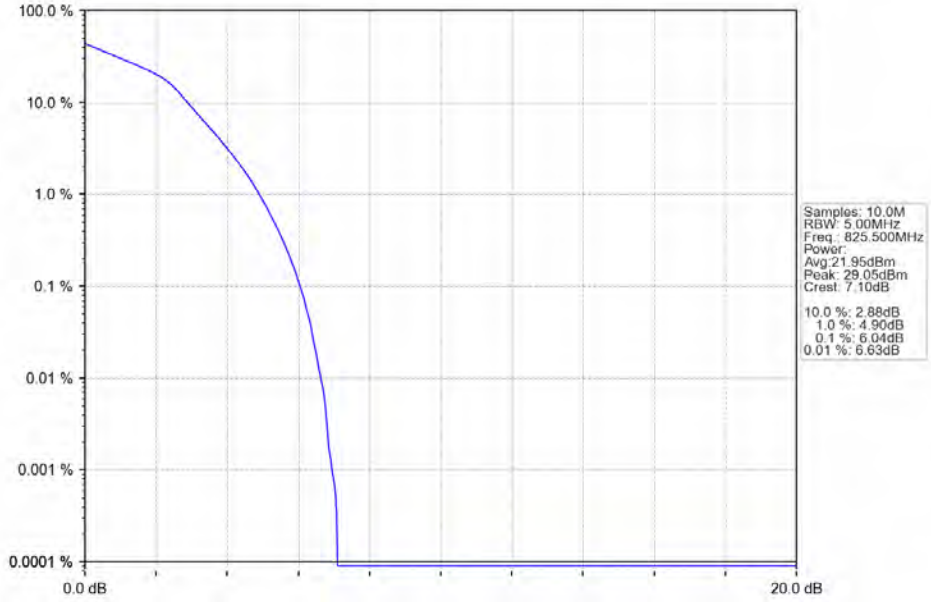
Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



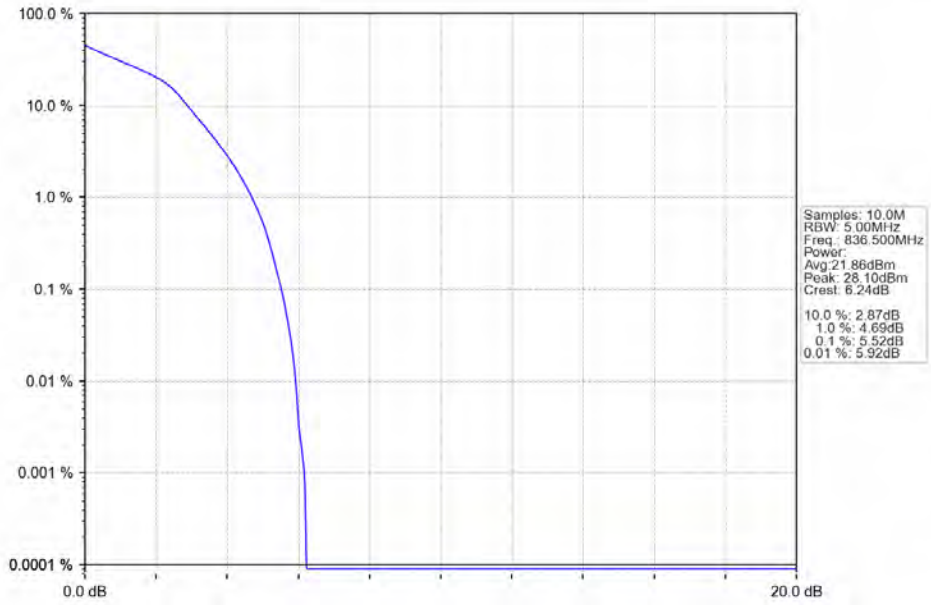
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



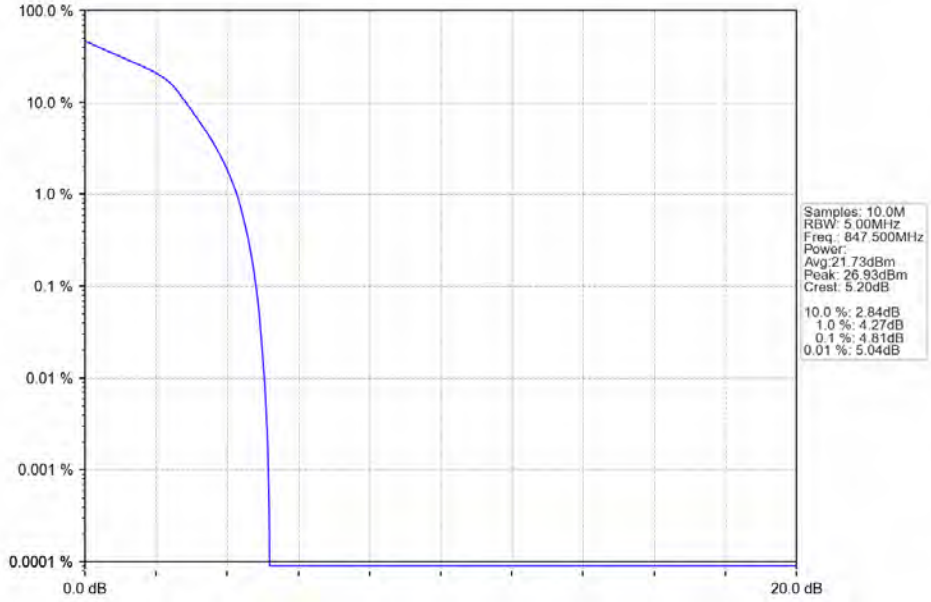
Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



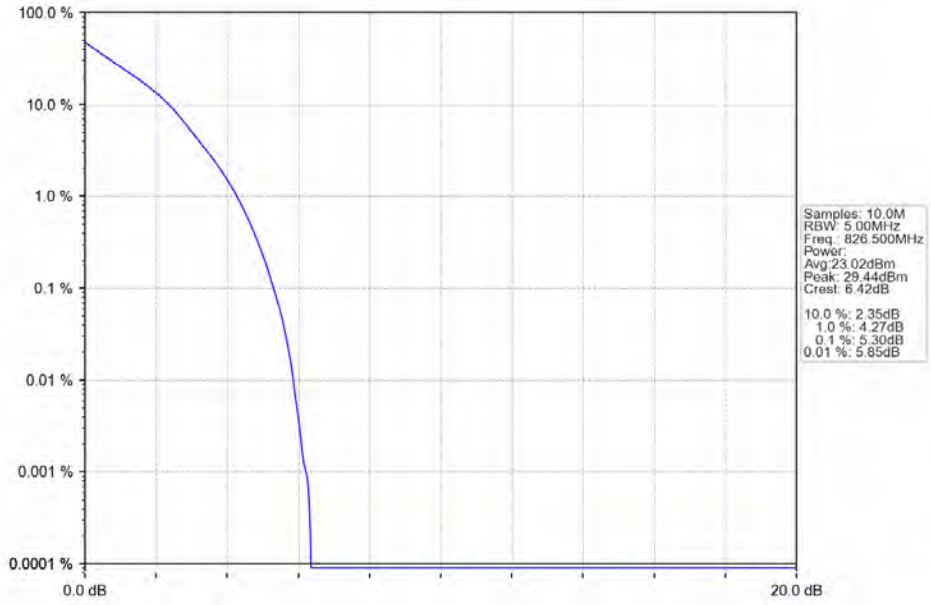
5.3 B5_5MHz

5.3.1 Test Result

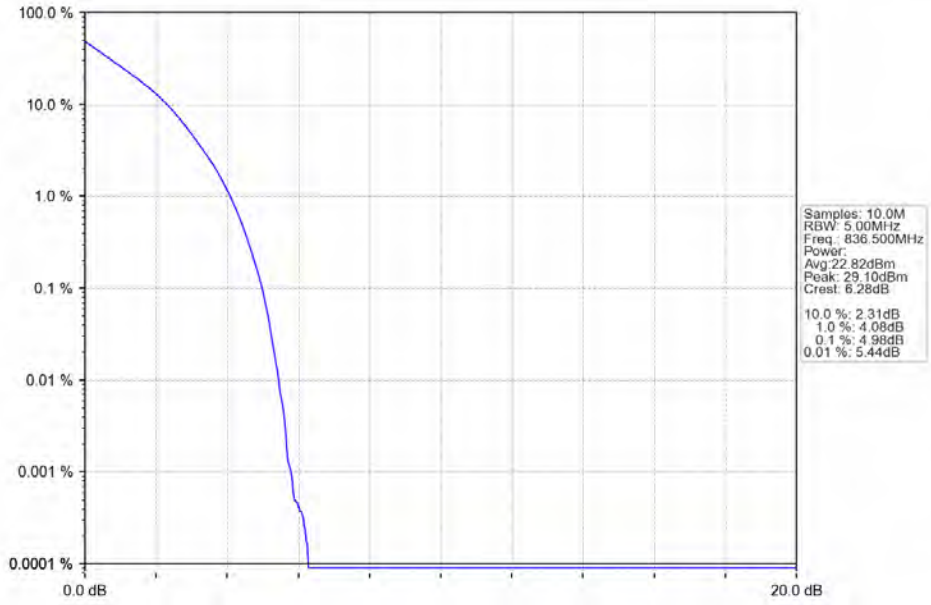
Band: 5 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	826.5	25	0	5.30	<=13	Pass
	836.5	25	0	4.98	<=13	Pass
	846.5	25	0	4.69	<=13	Pass
16QAM	826.5	25	0	6.04	<=13	Pass
	836.5	25	0	5.70	<=13	Pass
	846.5	25	0	5.45	<=13	Pass

5.3.2 Test Graph

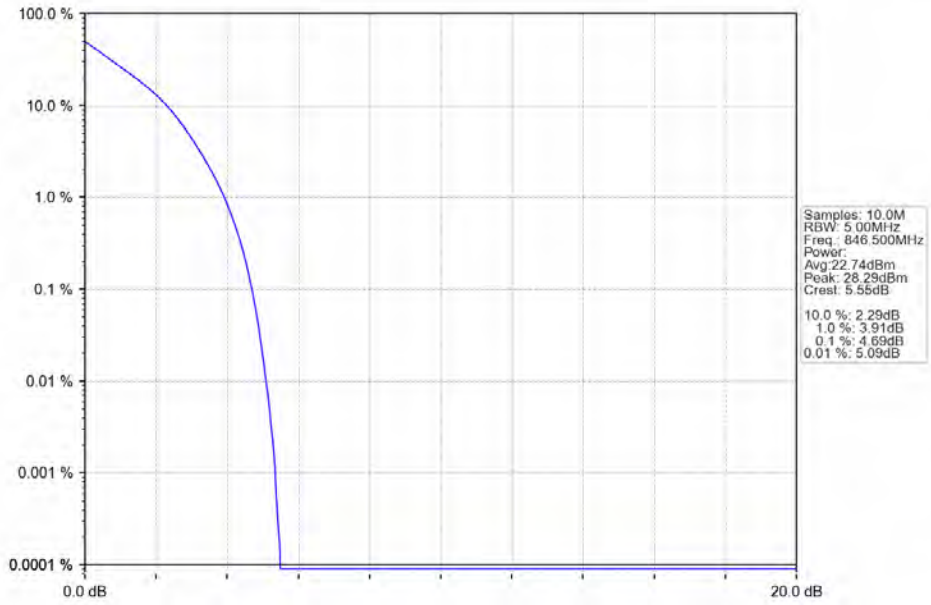
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



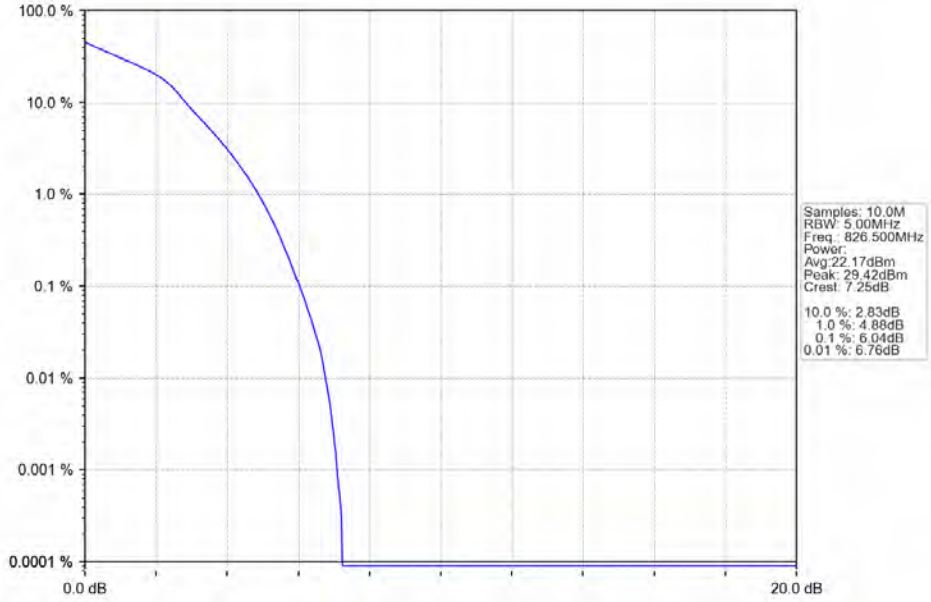
Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



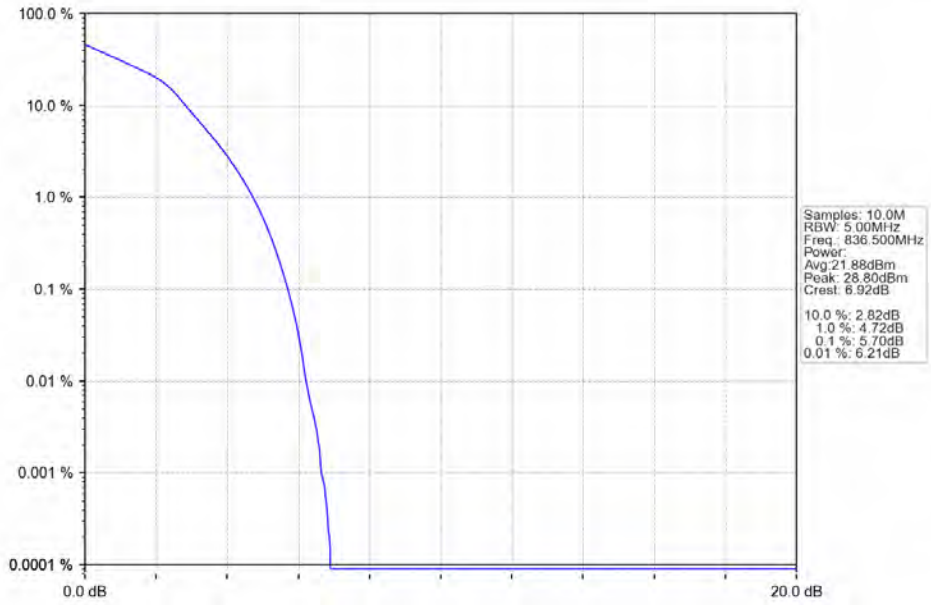
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



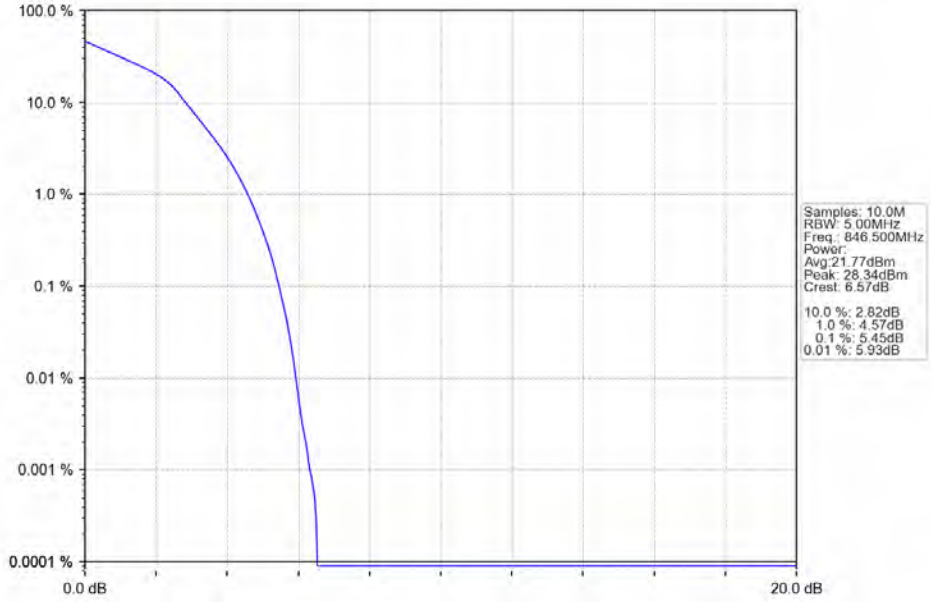
Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



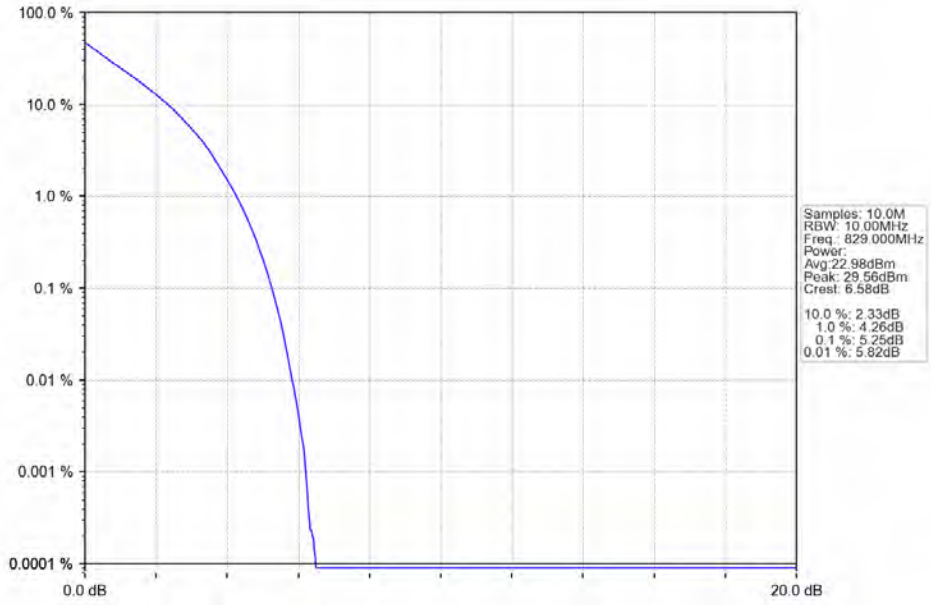
5.4 B5_10MHz

5.4.1 Test Result

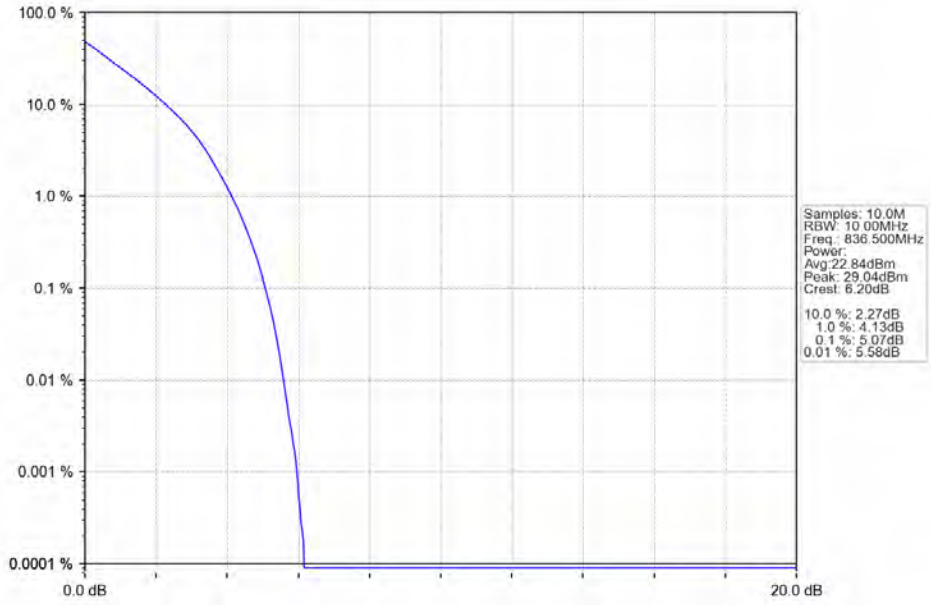
Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	829	50	0	5.25	<=13	Pass
	836.5	50	0	5.07	<=13	Pass
	844	50	0	5.26	<=13	Pass
16QAM	829	50	0	5.95	<=13	Pass
	836.5	50	0	5.85	<=13	Pass
	844	50	0	5.98	<=13	Pass

5.4.2 Test Graph

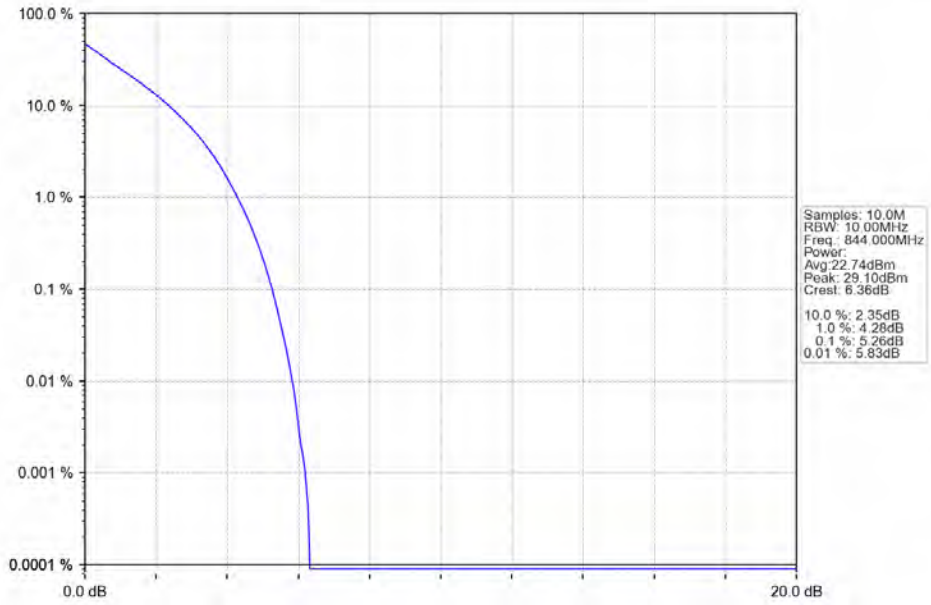
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



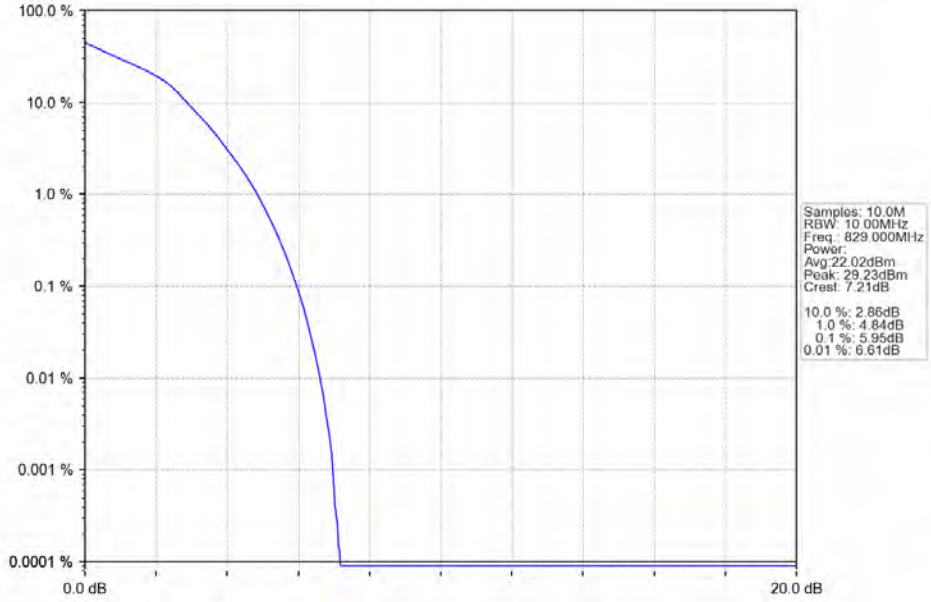
Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



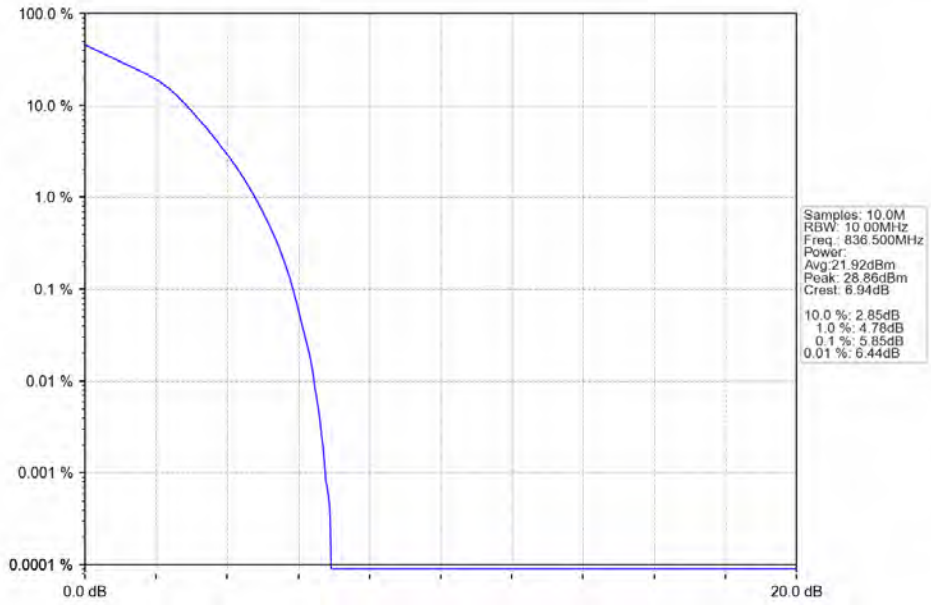
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



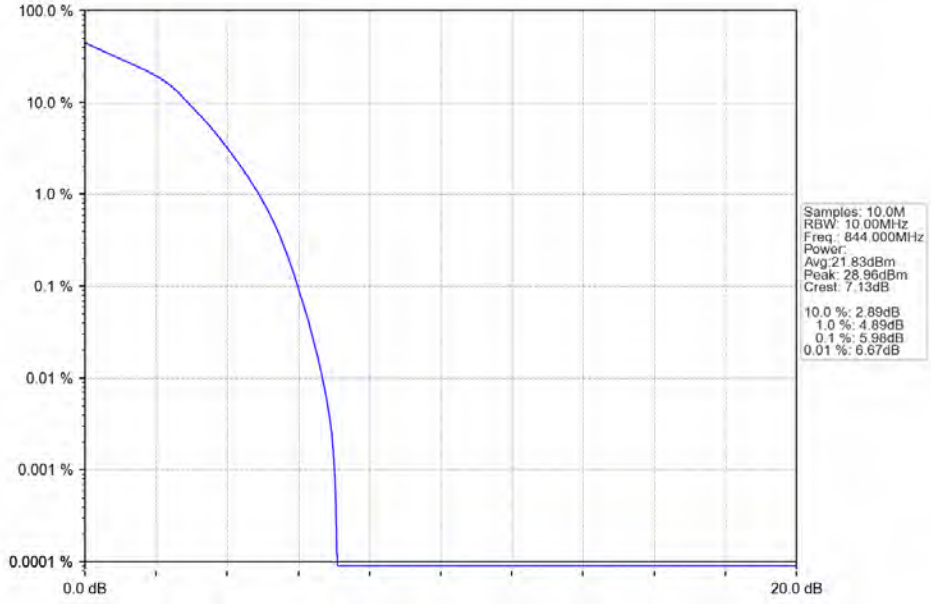
Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV



6. Spurious Emission

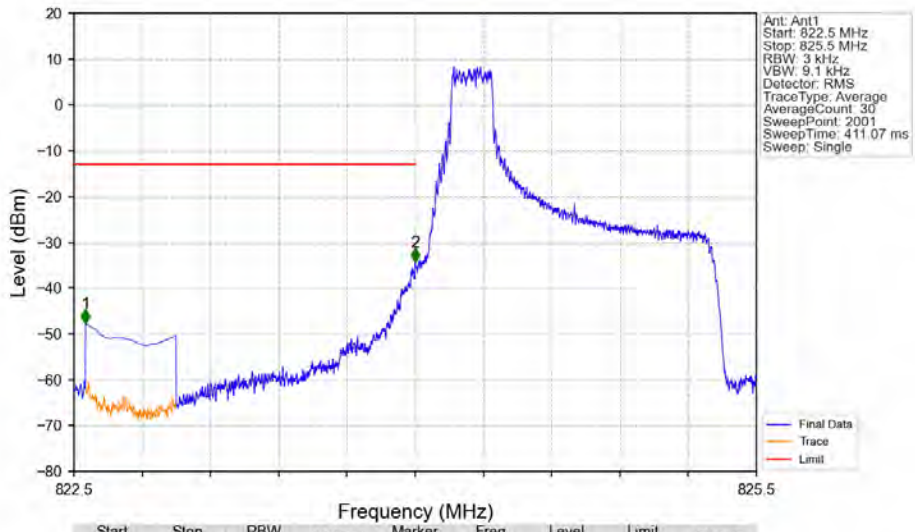
6.1 B5_1.4MHz

6.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	824.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	848.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
16QAM	824.7	1	0	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	848.3	1	0	Refer To Test Graph		Pass
			5	Refer To Test Graph		Pass
		6	0	Refer To Test Graph		Pass

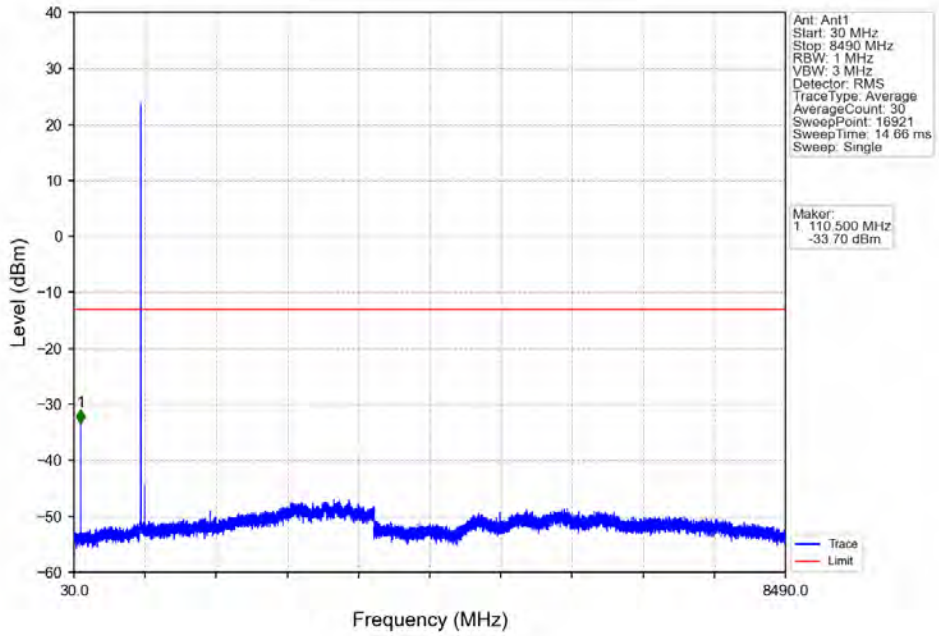
6.1.2 Test Graph

Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_1_0_NTNV

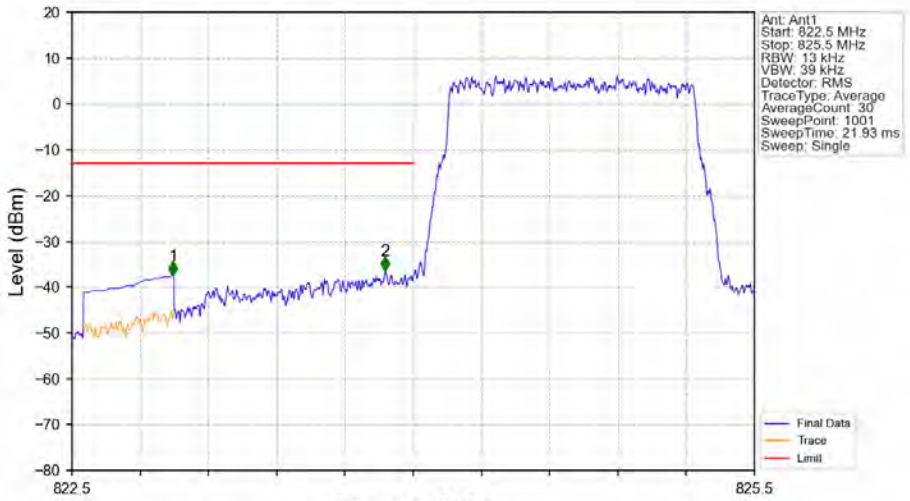


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.551	-47.75	-13	Pass
823	824	0.003	/	2	824.000	-34.30	-13	Pass
824	825.5	0.003	/	/	/	/	/	/

Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_1_0_NTNV

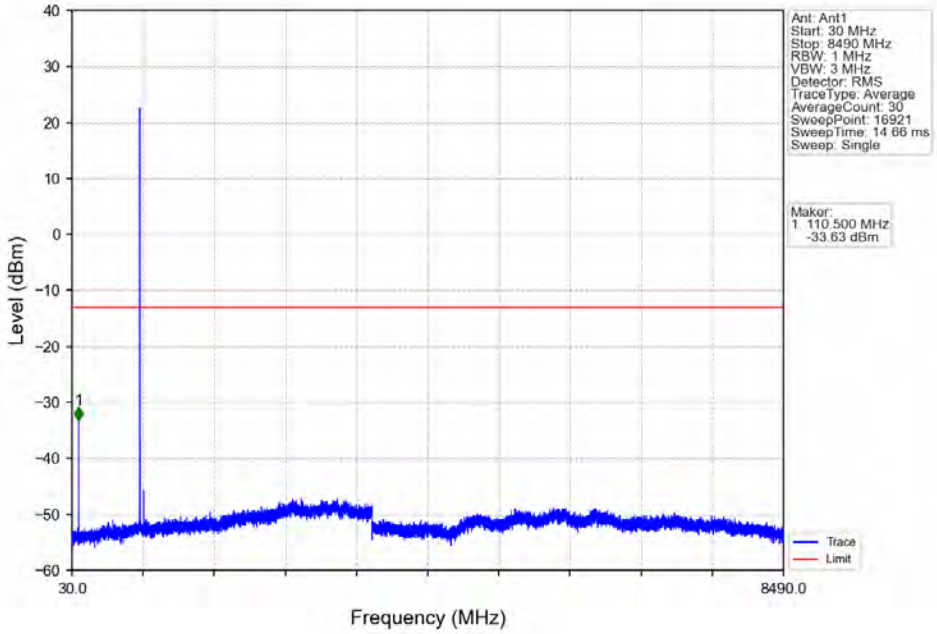


Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV

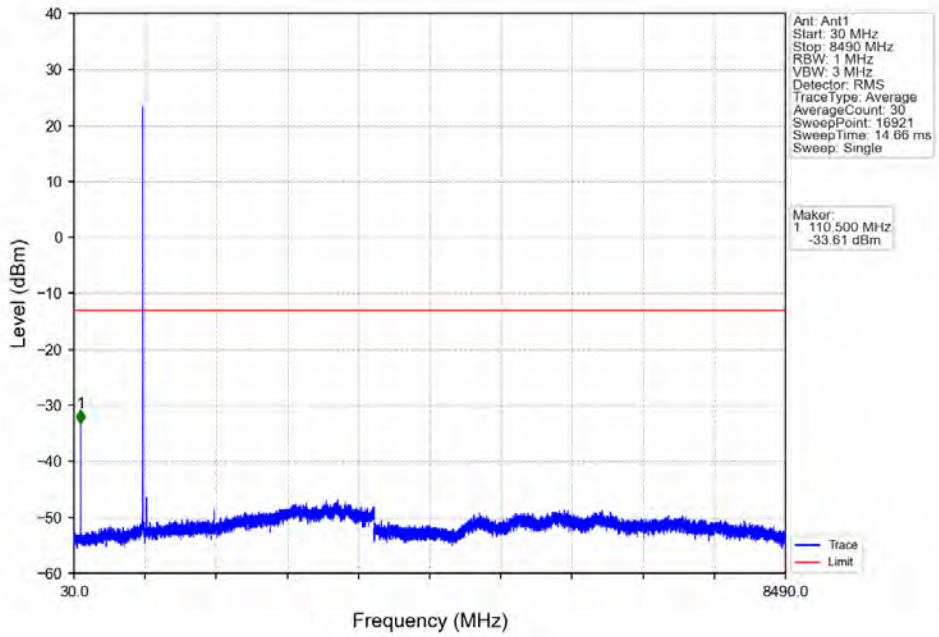


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.944	-37.52	-13	Pass
823	824	0.013	/	2	823.877	-36.46	-13	Pass
824	825.5	0.013	/	/	/	/	/	/

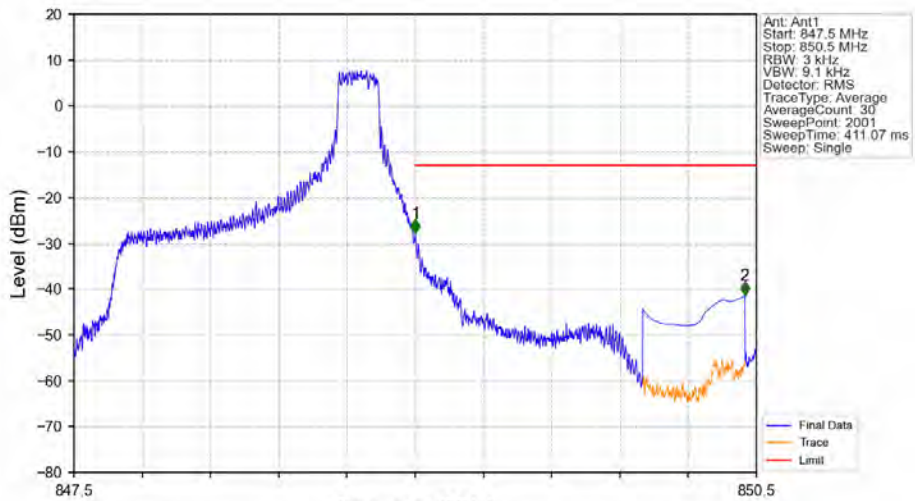
Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_1_0_NTNV

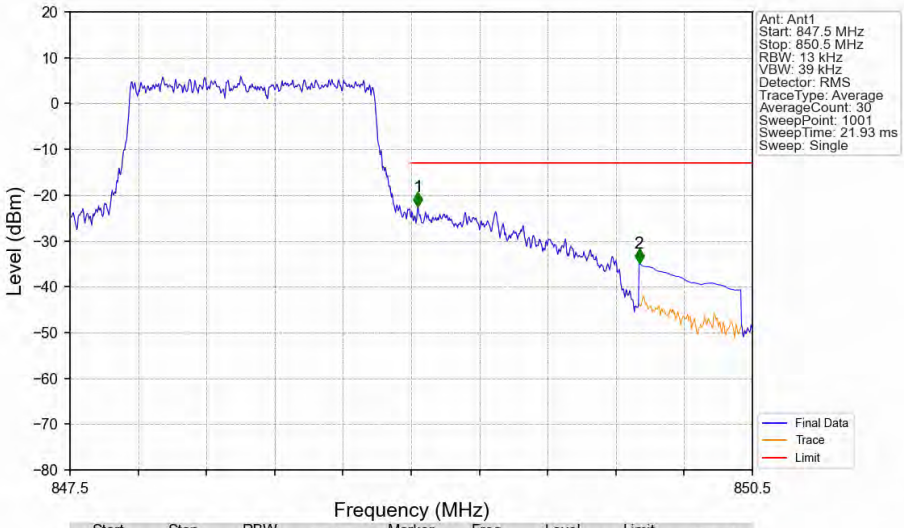


Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_1_5_NTNV



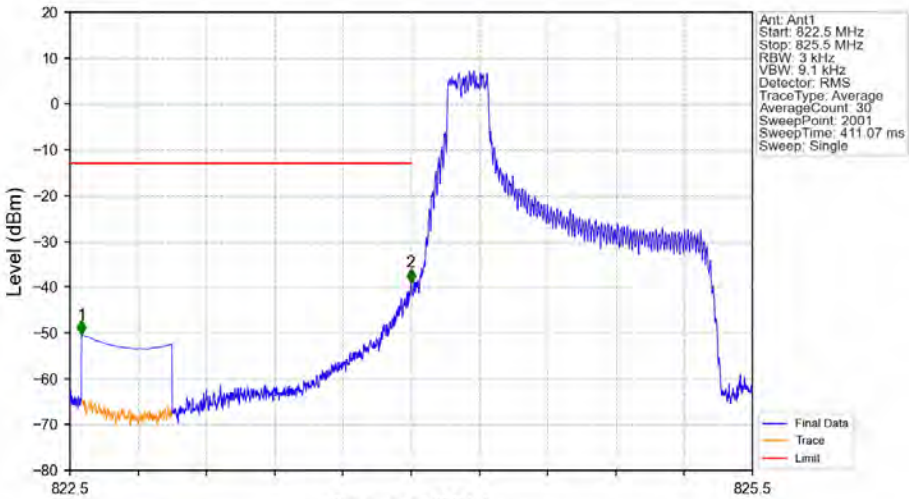
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.001	-27.79	-13	Pass
850	850.5	0.1	CHP	2	850.449	-41.39	-13	Pass

Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



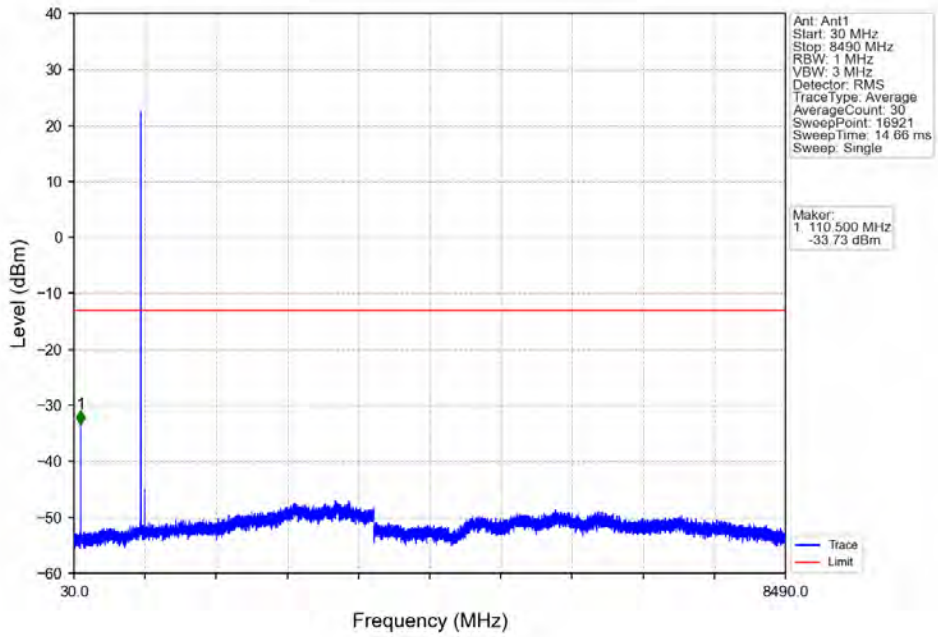
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.013	/	/	/	/	/	/
849	850	0.013	/	1	849.030	-22.48	-13	Pass
850	850.5	0.1	CHP	2	850.002	-34.86	-13	Pass

Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_1_0_NTNV

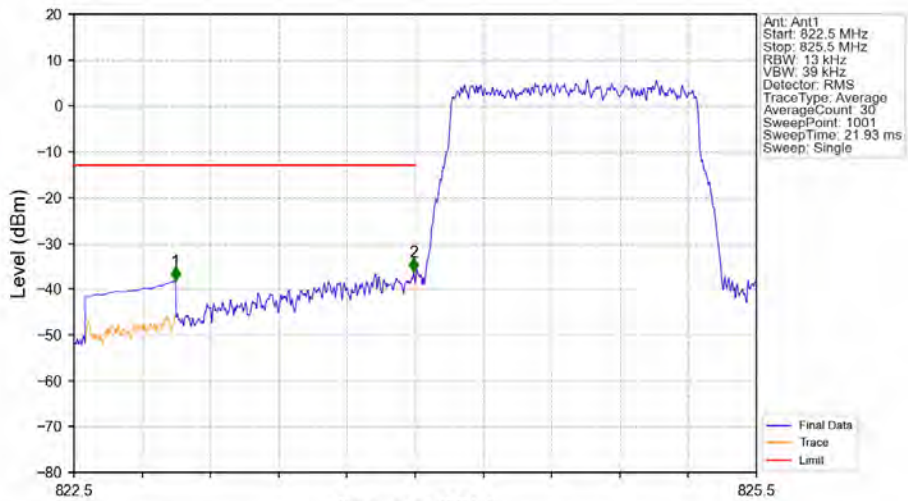


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.551	-50.40	-13	Pass
823	824	0.003	/	2	823.999	-39.01	-13	Pass
824	825.5	0.003	/	/	/	/	/	/

Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_1_0_NTNV

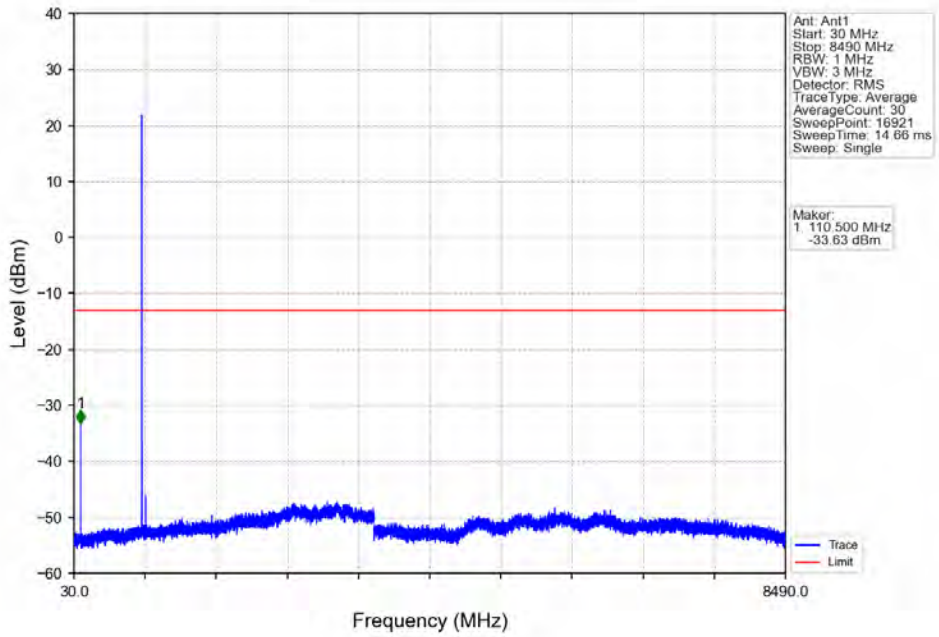


Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV

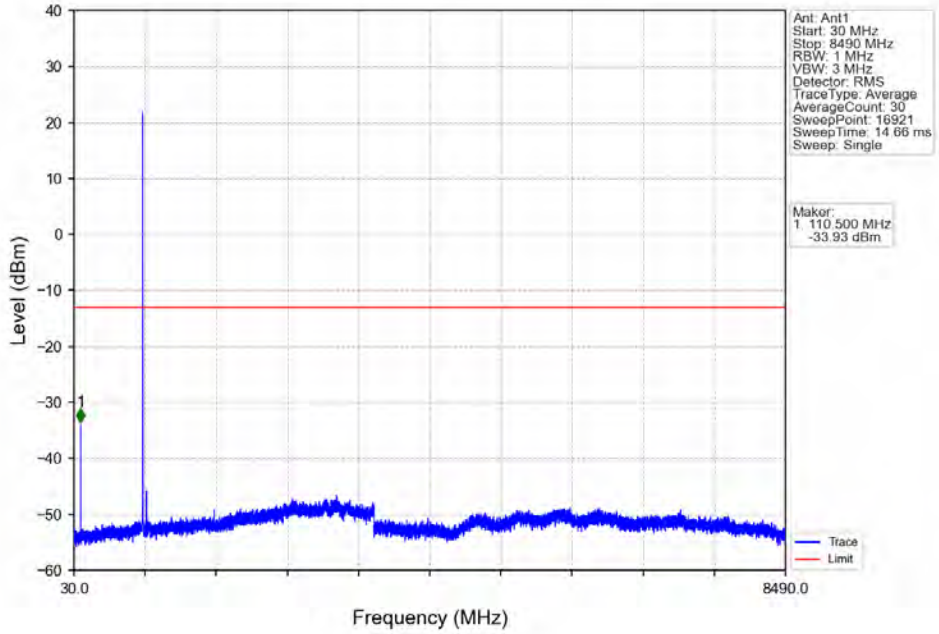


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.947	-38.21	-13	Pass
823	824	0.013	/	2	823.994	-36.25	-13	Pass
824	825.5	0.013	/	/	/	/	/	/

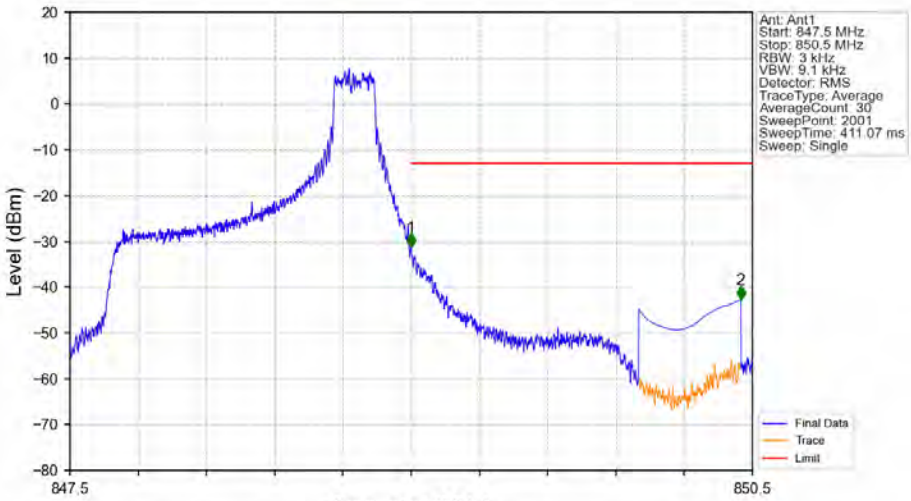
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV



Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_1_0_NTNV

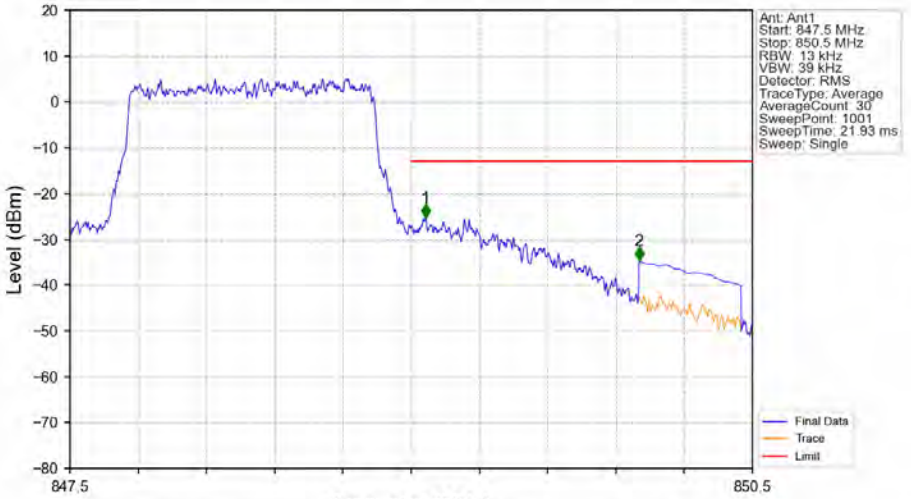


Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_1_5_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.000	-31.34	-13	Pass
850	850.5	0.1	CHP	2	850.449	-42.79	-13	Pass

Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.013	/	/	/	/	/	/
849	850	0.013	/	1	849.063	-25.33	-13	Pass
850	850.5	0.1	CHP	2	850.002	-34.73	-13	Pass

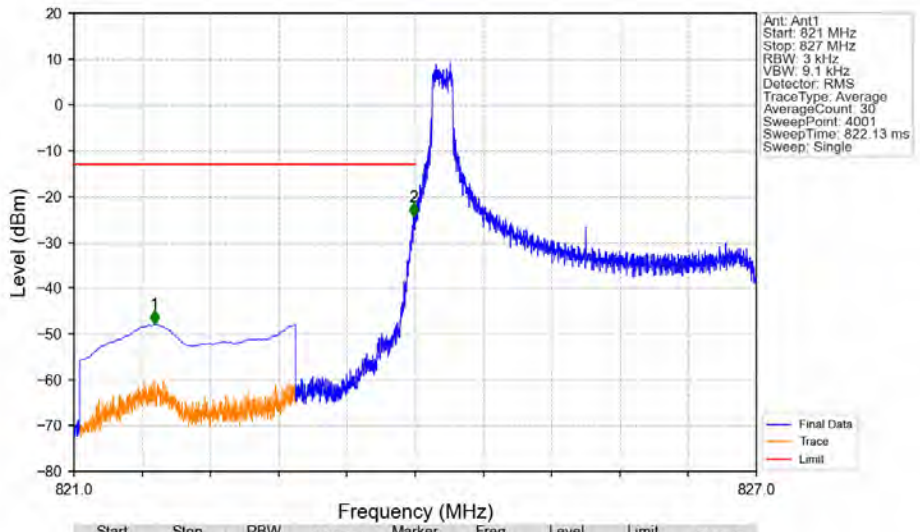
6.2 B5_3MHz

6.2.1 Test Result

Band: 5 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	825.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	847.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
16QAM	825.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	847.5	1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

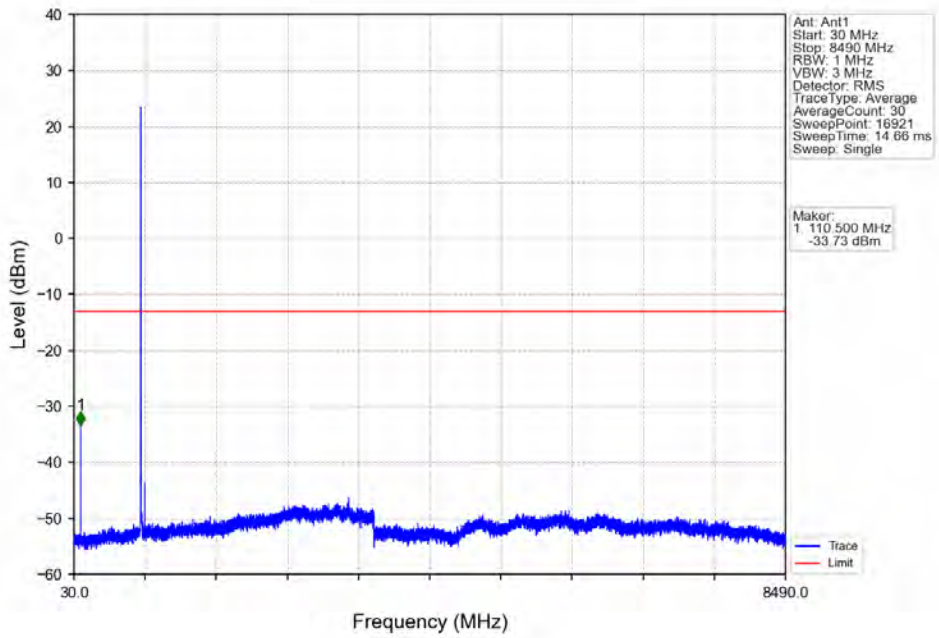
6.2.2 Test Graph

Band5_3MHz_QPSK_LCH_825.5MHz_RB_1_0_NTNV

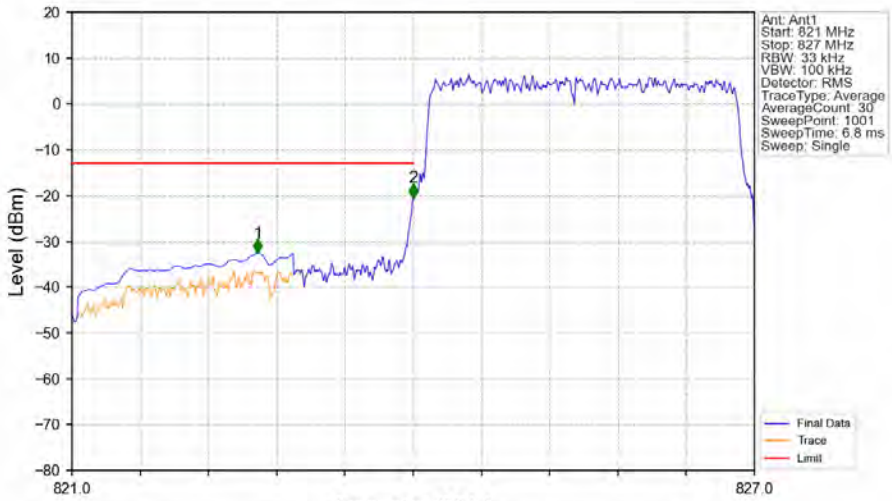


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	821.708	-47.90	-13	Pass
823	824	0.003	/	2	823.986	-24.47	-13	Pass
824	827	0.003	/	/	/	/	/	/

Band5_3MHz_QPSK_LCH_825.5MHz_RB_1_0_NTNV

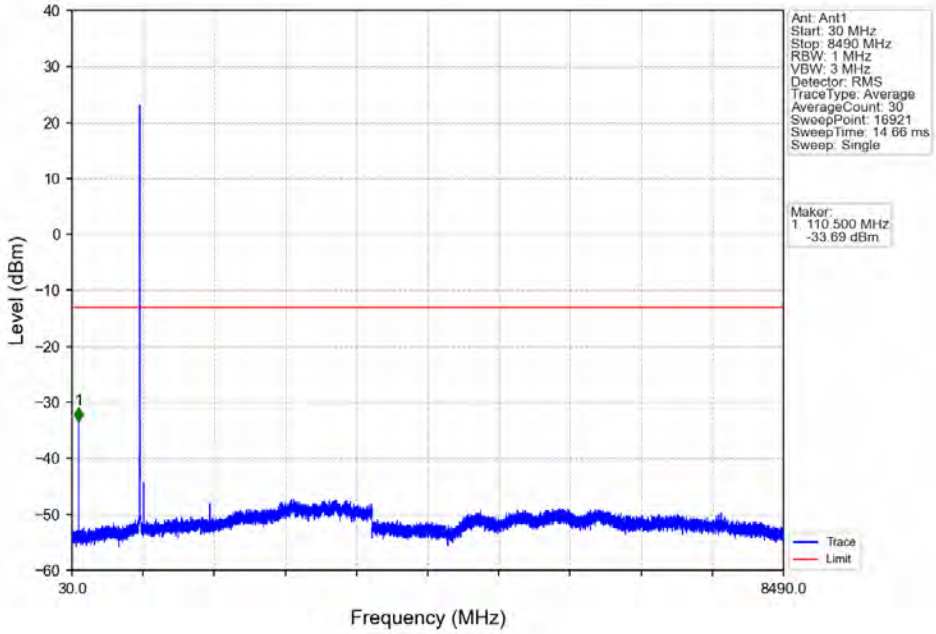


Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV

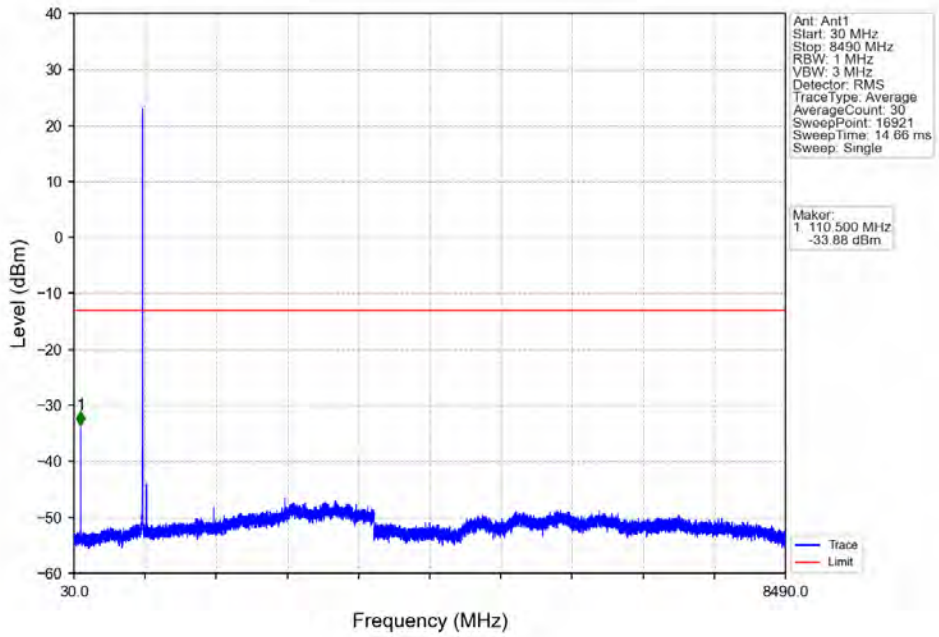


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.632	-32.56	-13	Pass
823	824	0.033	/	2	824.000	-20.50	-13	Pass
824	827	0.033	/	/	/	/	/	/

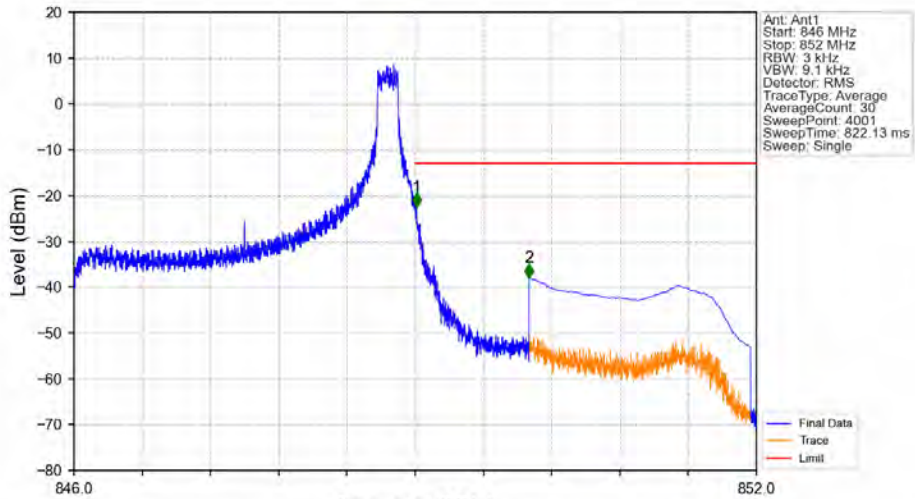
Band5_3MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



Band5_3MHz_QPSK_HCH_847.5MHz_RB_1_0_NTNV

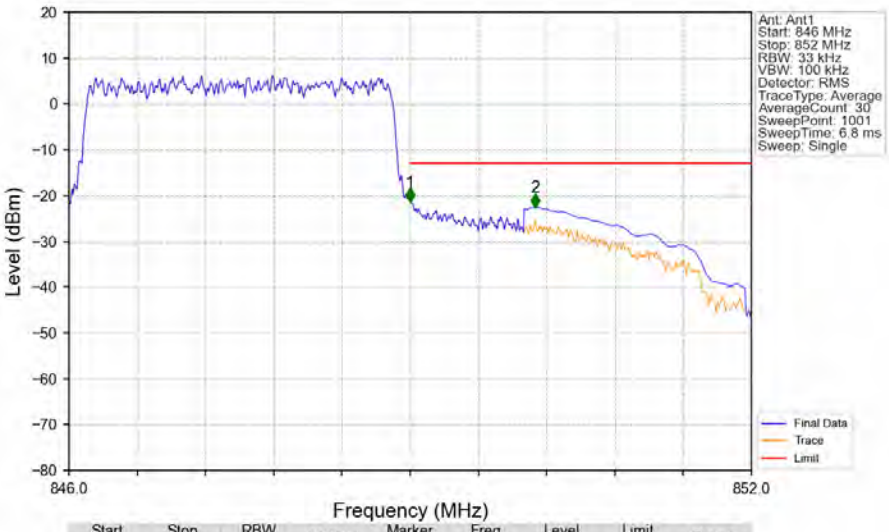


Band5_3MHz_QPSK_HCH_847.5MHz_RB_1_14_NTNV



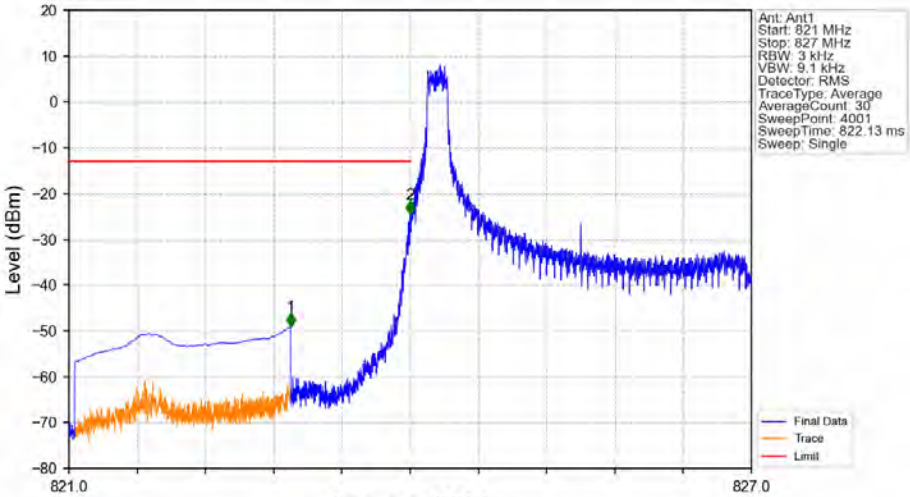
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.012	-22.51	-13	Pass
850	852	0.1	CHP	2	850.000	-37.93	-13	Pass

Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



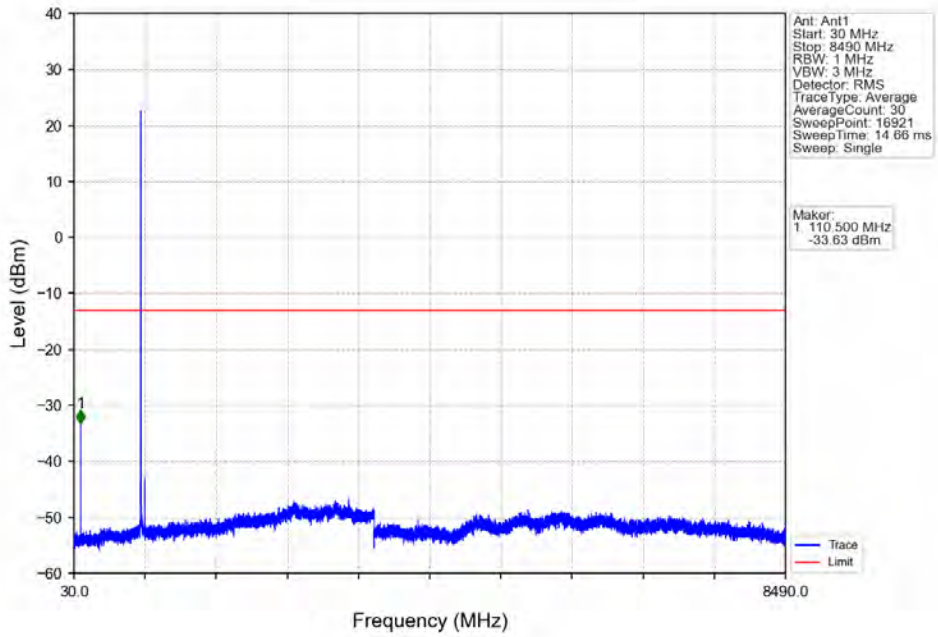
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.033	/	/	/	/	/	/
849	850	0.033	/	1	849.000	-21.40	-13	Pass
850	852	0.1	CHP	2	850.098	-22.62	-13	Pass

Band5_3MHz_16QAM_LCH_825.5MHz_RB_1_0_NTNV

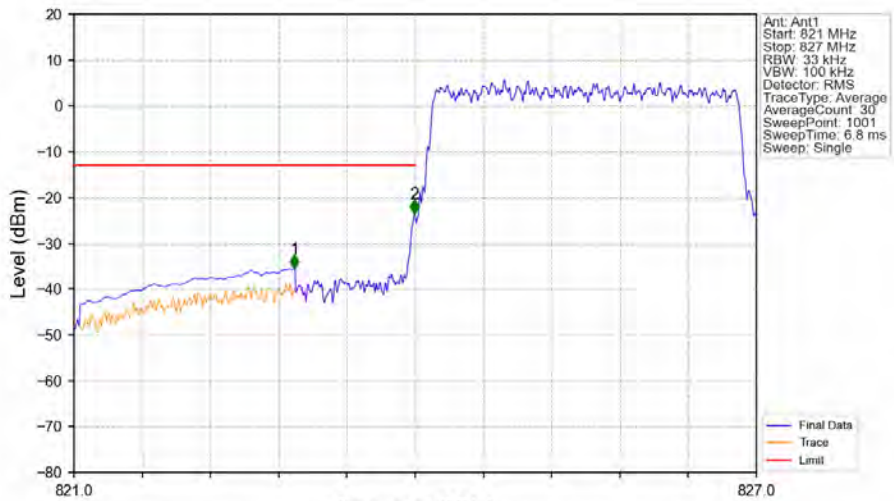


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.948	-49.08	-13	Pass
823	824	0.003	/	2	824.000	-24.58	-13	Pass
824	827	0.003	/	/	/	/	/	/

Band5_3MHz_16QAM_LCH_825.5MHz_RB_1_0_NTNV

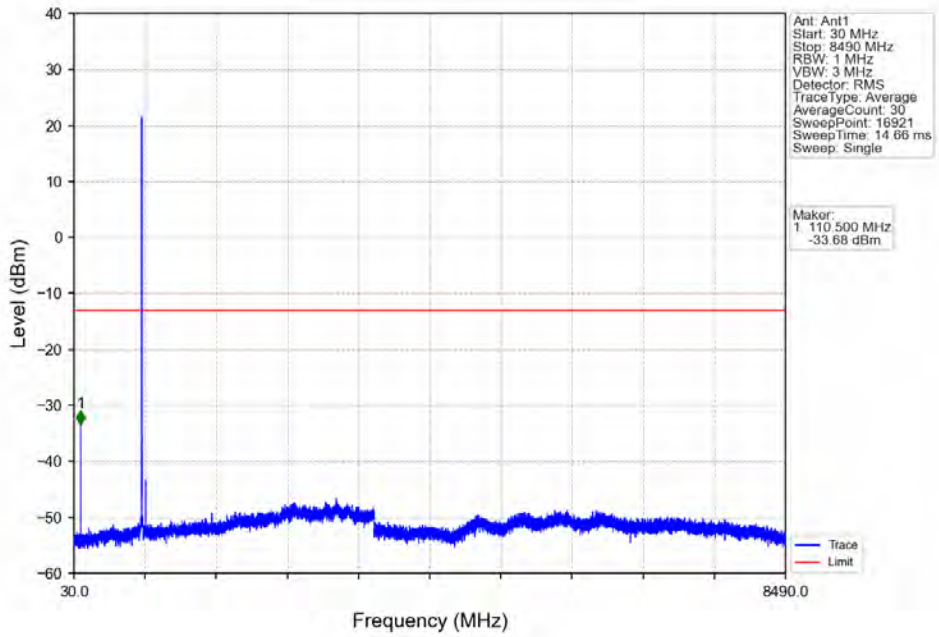


Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV

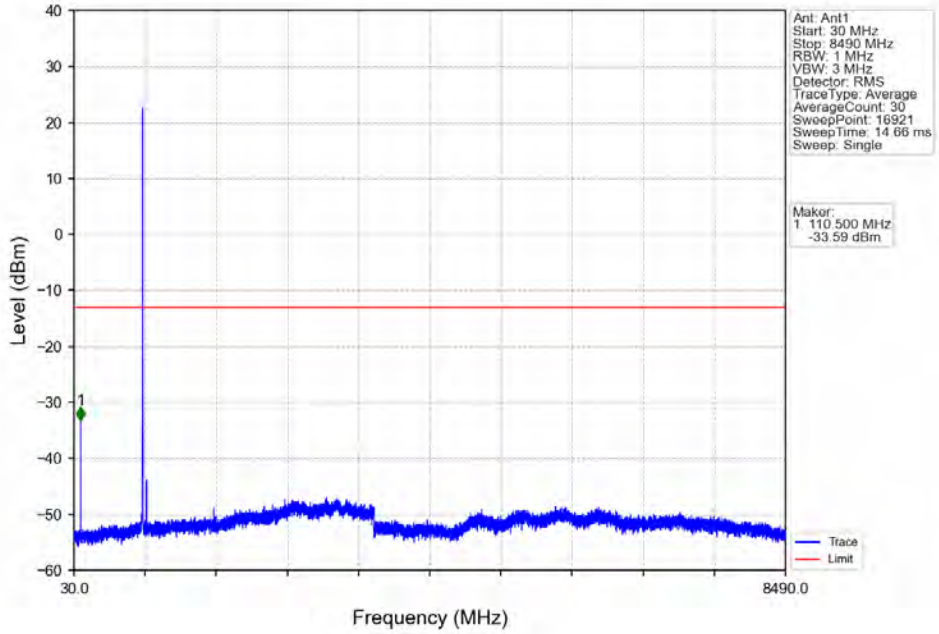


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.938	-35.61	-13	Pass
823	824	0.033	/	2	823.994	-23.53	-13	Pass
824	827	0.033	/	/	/	/	/	/

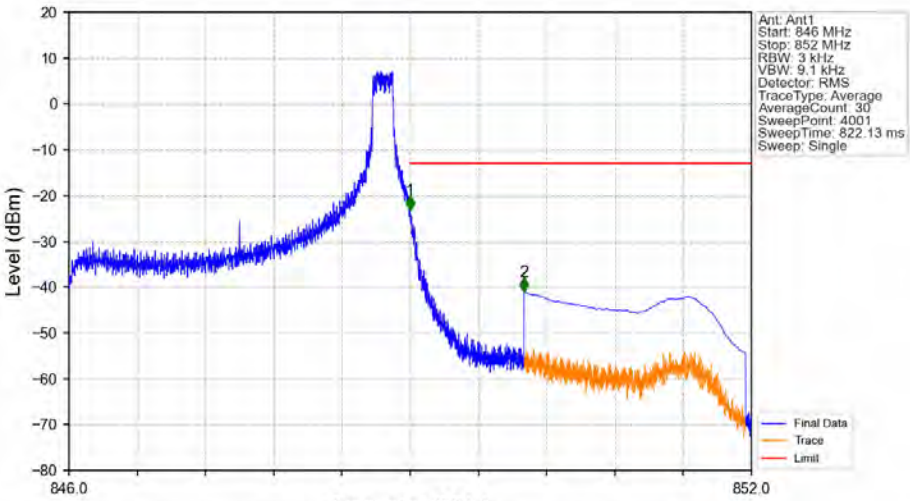
Band5_3MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV



Band5_3MHz_16QAM_HCH_847.5MHz_RB_1_0_NTNV

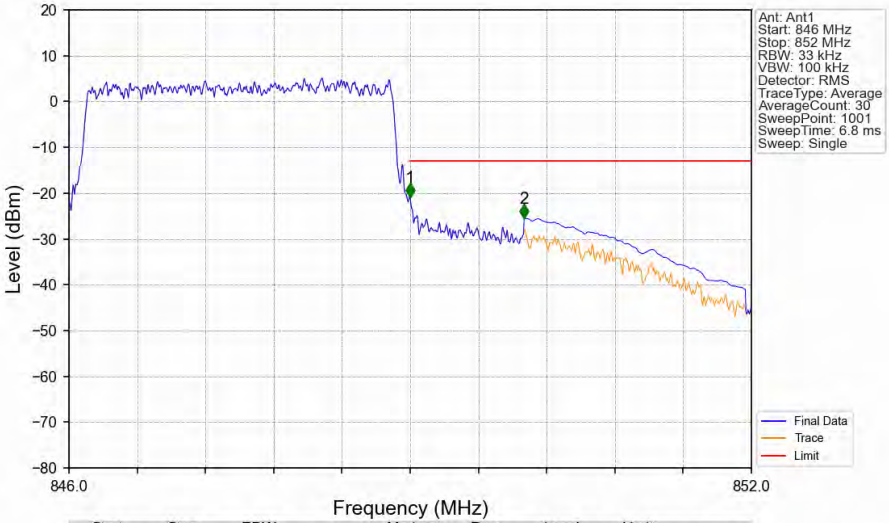


Band5_3MHz_16QAM_HCH_847.5MHz_RB_1_14_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.000	-23.24	-13	Pass
850	852	0.1	CHP	2	850.000	-41.00	-13	Pass

Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.033	/	/	/	/	/	/
849	850	0.033	/	1	849.000	-20.86	-13	Pass
850	852	0.1	CHP	2	850.002	-25.52	-13	Pass

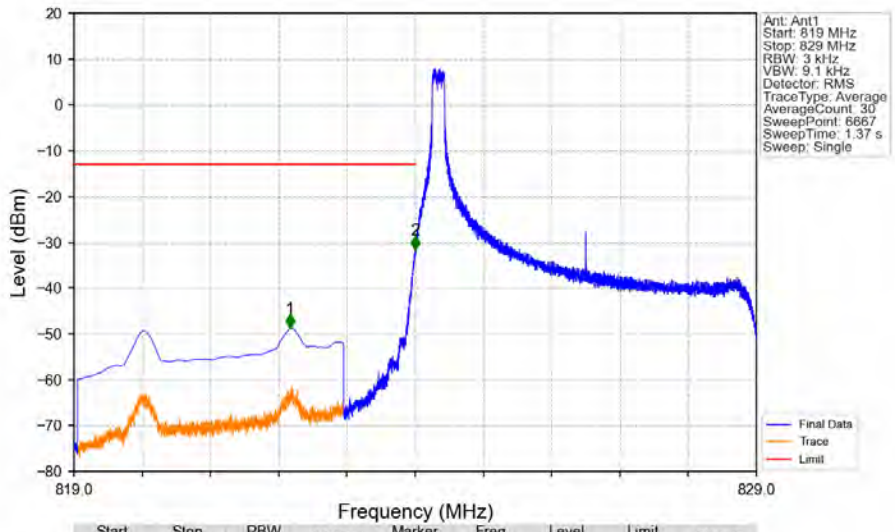
6.3 B5_5MHz

6.3.1 Test Result

Band: 5 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	826.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	846.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	826.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	846.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass

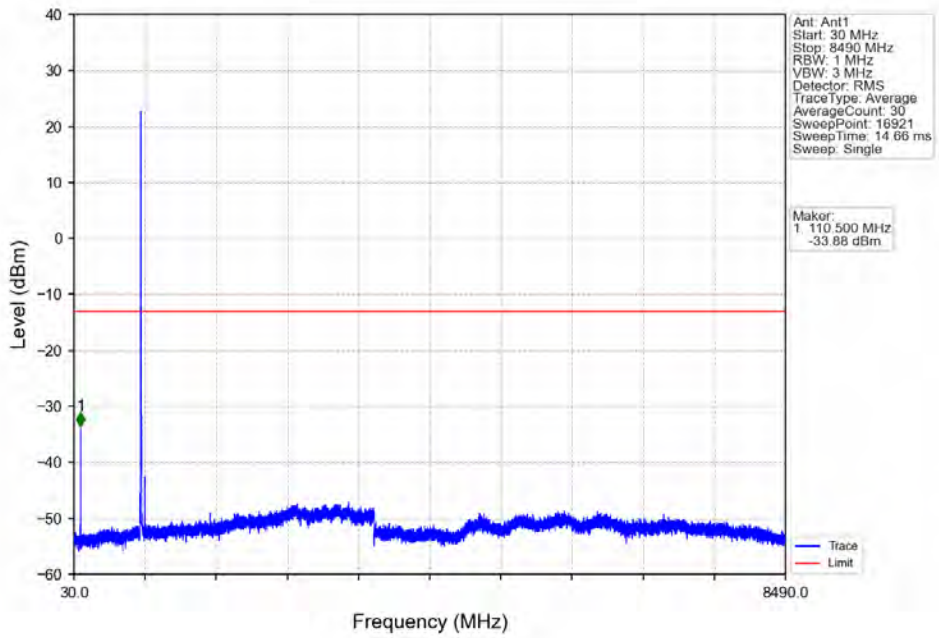
6.3.2 Test Graph

Band5_5MHz_QPSK_LCH_826.5MHz_RB_1_0_NTNV

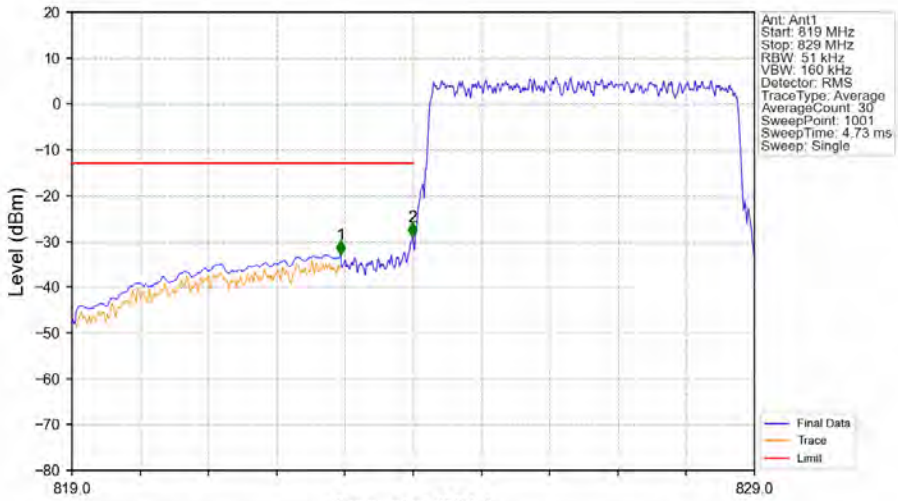


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.168	-48.79	-13	Pass
823	824	0.003	/	2	824.000	-31.69	-13	Pass
824	829	0.003	/	/	/	/	/	/

Band5_5MHz_QPSK_LCH_826.5MHz_RB_1_0_NTNV

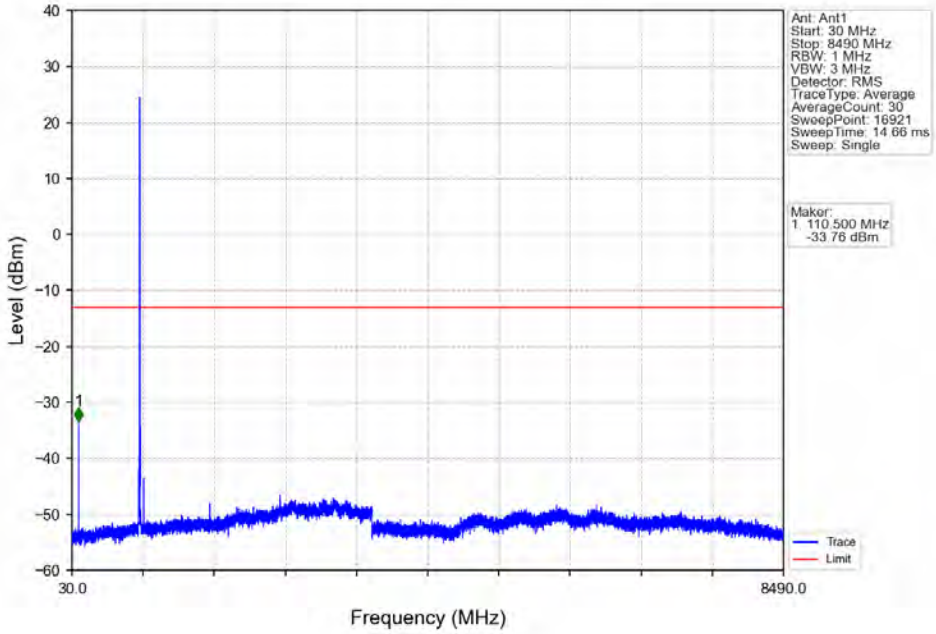


Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV

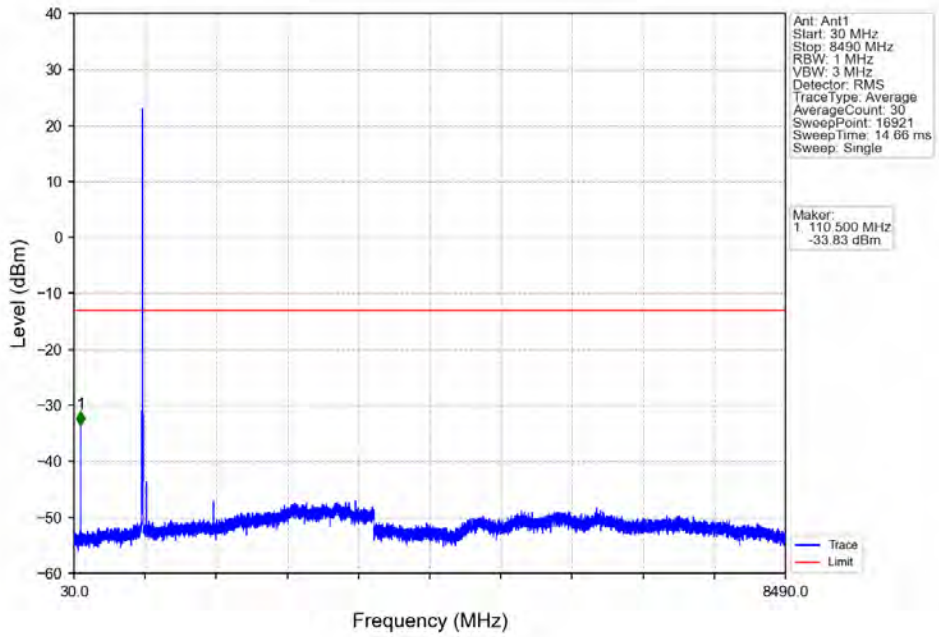


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.940	-32.95	-13	Pass
823	824	0.051	/	2	823.990	-29.11	-13	Pass
824	829	0.051	/	/	/	/	/	/

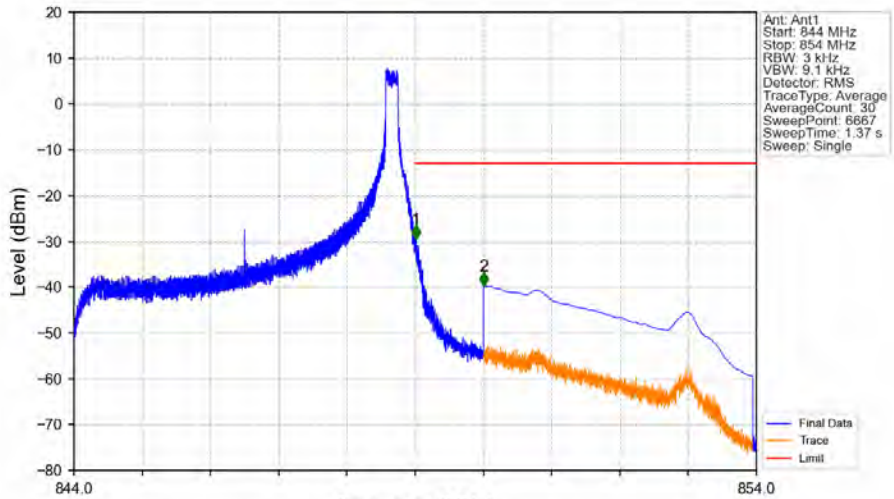
Band5_5MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



Band5_5MHz_QPSK_HCH_846.5MHz_RB_1_0_NTNV

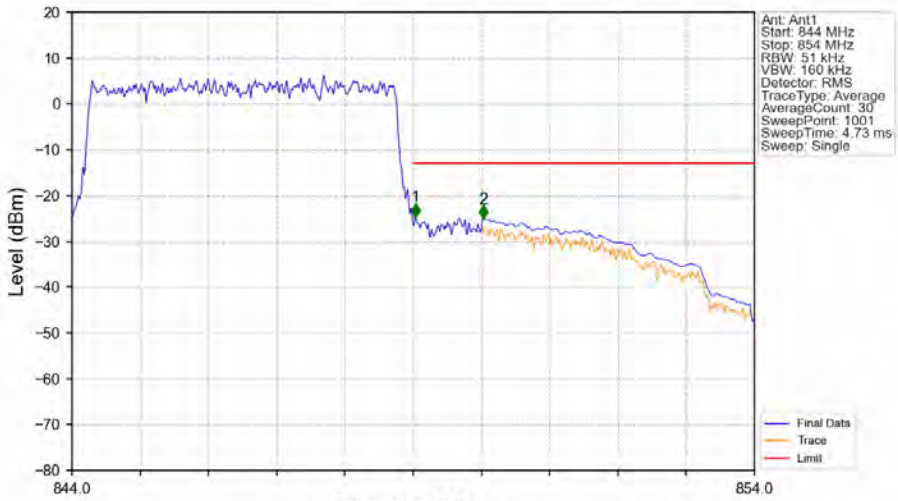


Band5_5MHz_QPSK_HCH_846.5MHz_RB_1_24_NTNV



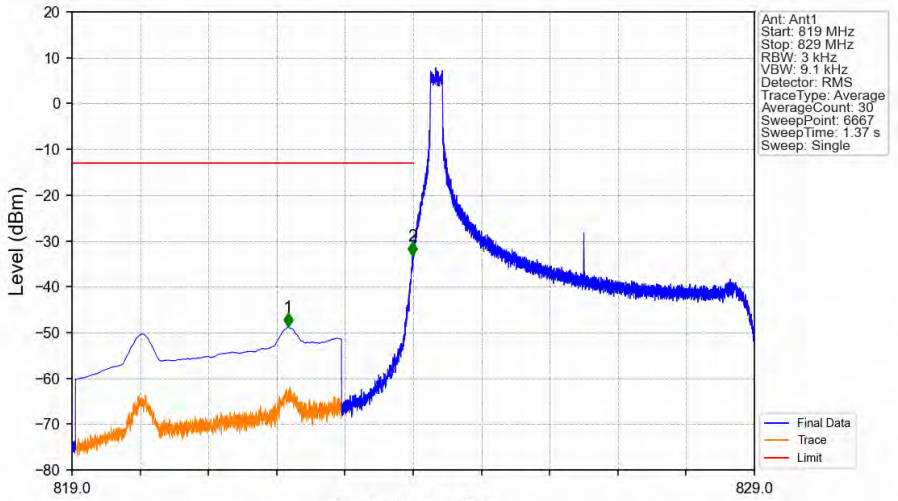
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.009	-29.55	-13	Pass
850	854	0.1	CHP	2	850.004	-39.74	-13	Pass

Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



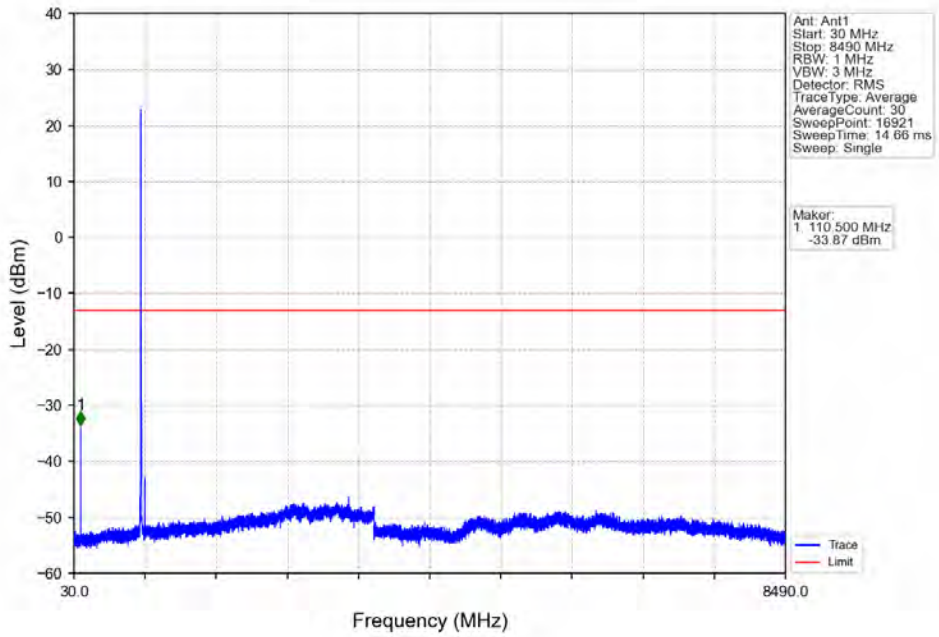
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.051	/	/	/	/	/	/
849	850	0.051	/	1	849.030	-24.73	-13	Pass
850	854	0.1	CHP	2	850.030	-25.11	-13	Pass

Band5_5MHz_16QAM_LCH_826.5MHz_RB_1_0_NTNV

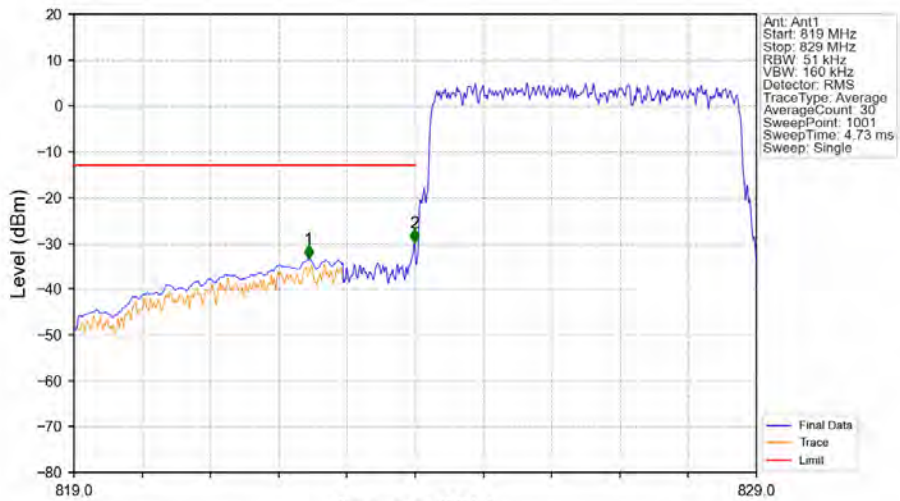


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.164	-48.83	-13	Pass
823	824	0.003	/	2	823.989	-33.26	-13	Pass
824	829	0.003	/	/	/	/	/	/

Band5_5MHz_16QAM_LCH_826.5MHz_RB_1_0_NTNV

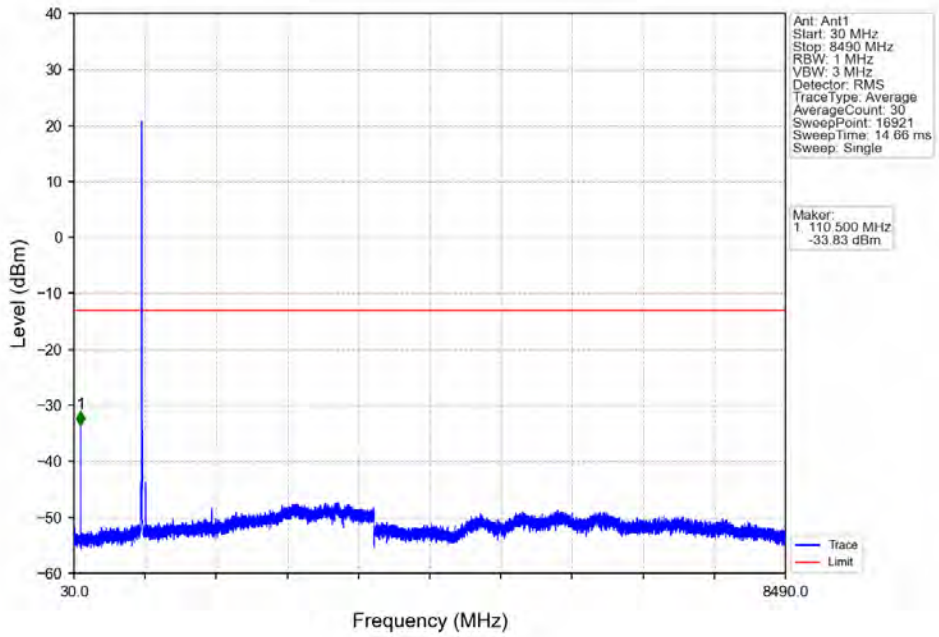


Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV

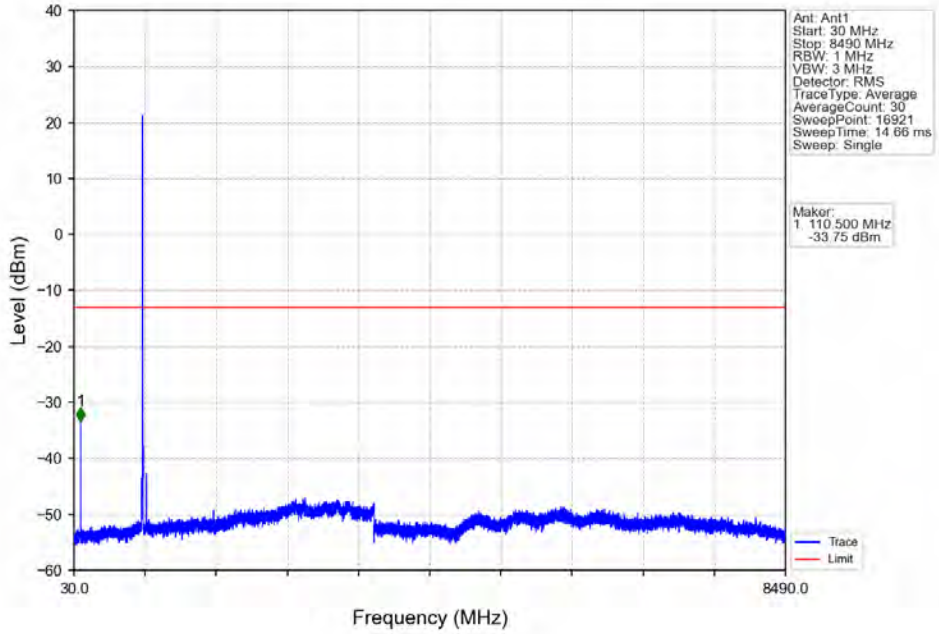


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.440	-33.40	-13	Pass
823	824	0.051	/	2	823.990	-29.87	-13	Pass
824	829	0.051	/	/	/	/	/	/

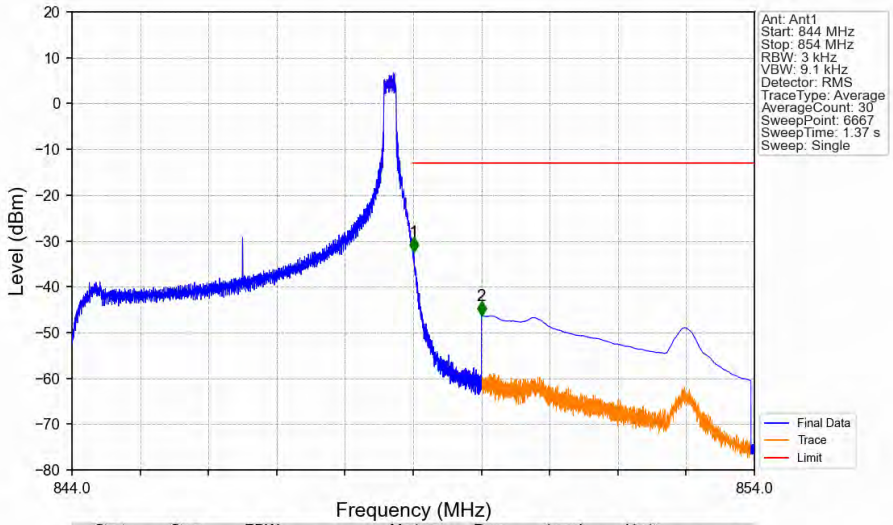
Band5_5MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV



Band5_5MHz_16QAM_HCH_846.5MHz_RB_1_0_NTNV

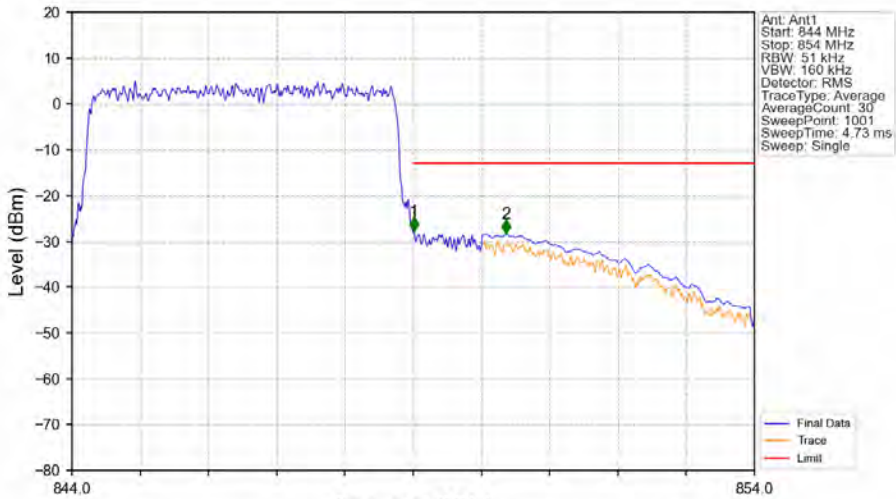


Band5_5MHz_16QAM_HCH_846.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.008	-32.45	-13	Pass
850	854	0.1	CHP	2	850.001	-46.27	-13	Pass

Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.051	/	/	/	/	/	/
849	850	0.051	/	1	849.010	-27.80	-13	Pass
850	854	0.1	CHP	2	850.360	-28.36	-13	Pass

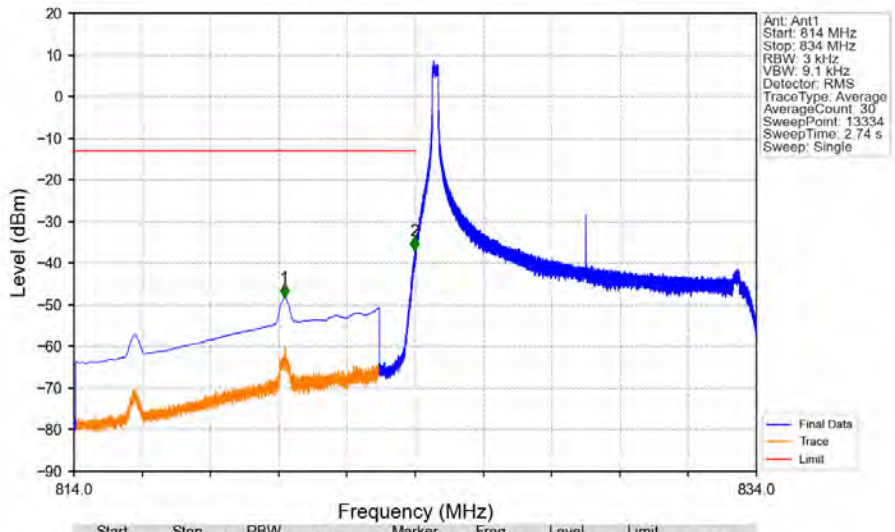
6.4 B5_10MHz

6.4.1 Test Result

Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	829	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	844	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	829	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	844	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass

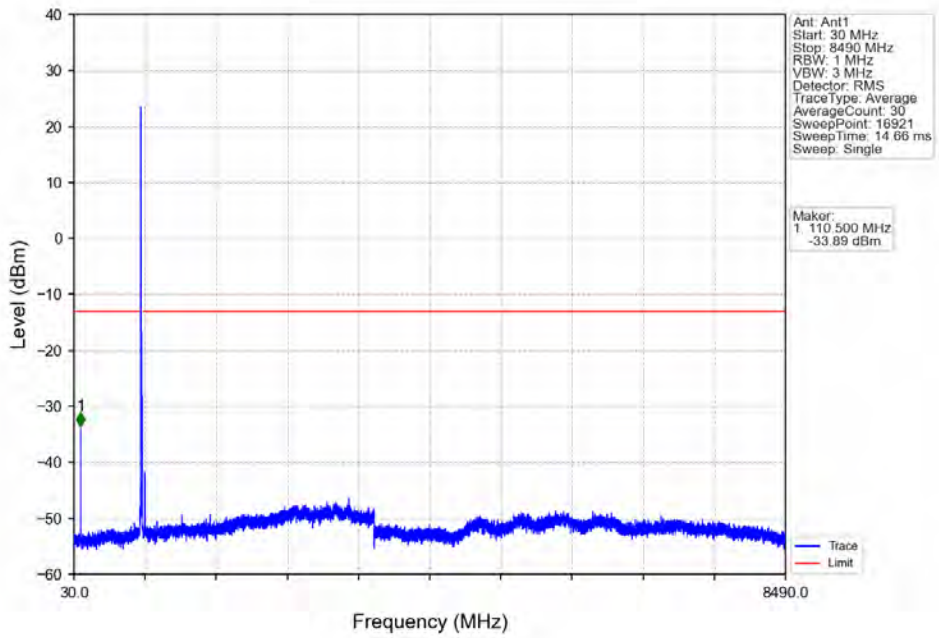
6.4.2 Test Graph

Band5_10MHz_QPSK_LCH_829MHz_RB_1_0_NTNV

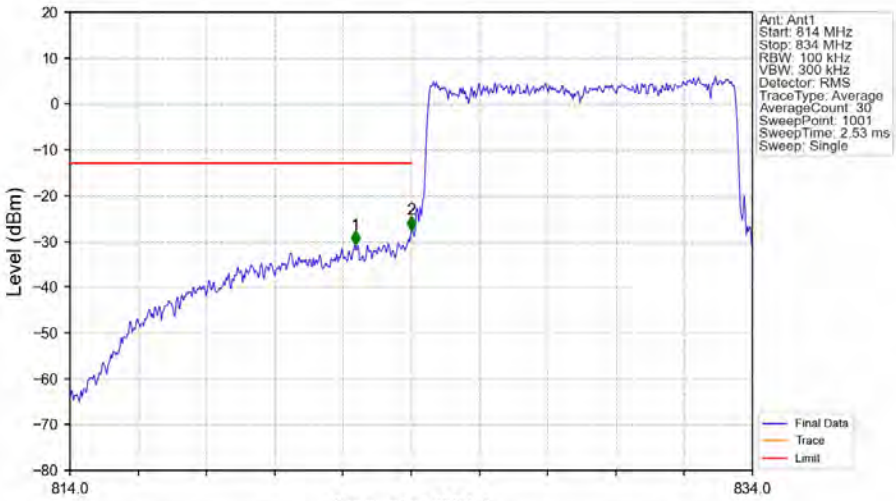


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	823	0.1	CHP	1	820.168	-48.32	-13	Pass
823	824	0.003	/	2	823.987	-37.04	-13	Pass
824	834	0.003	/	/	/	/	/	/

Band5_10MHz_QPSK_LCH_829MHz_RB_1_0_NTNV

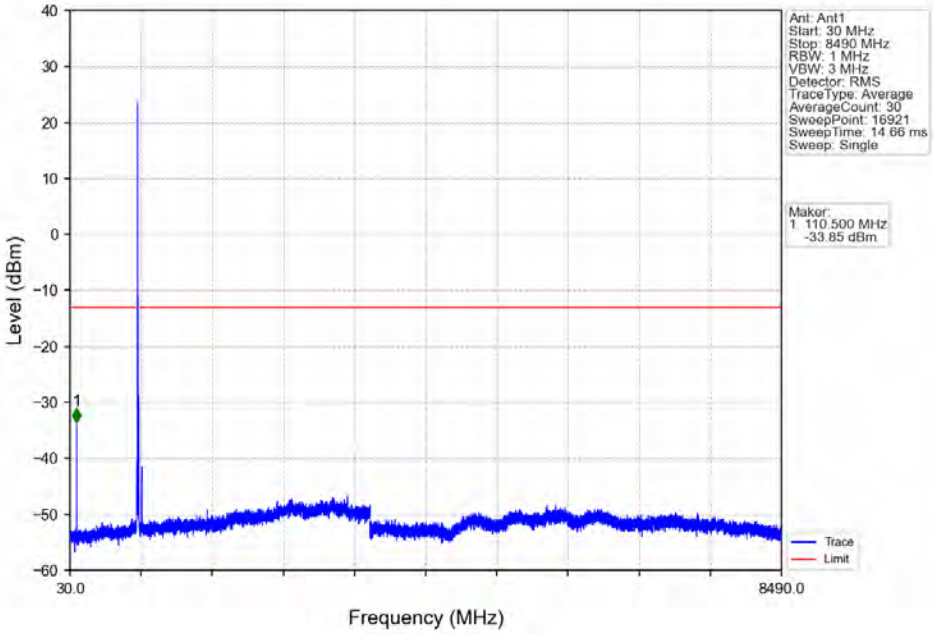


Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV

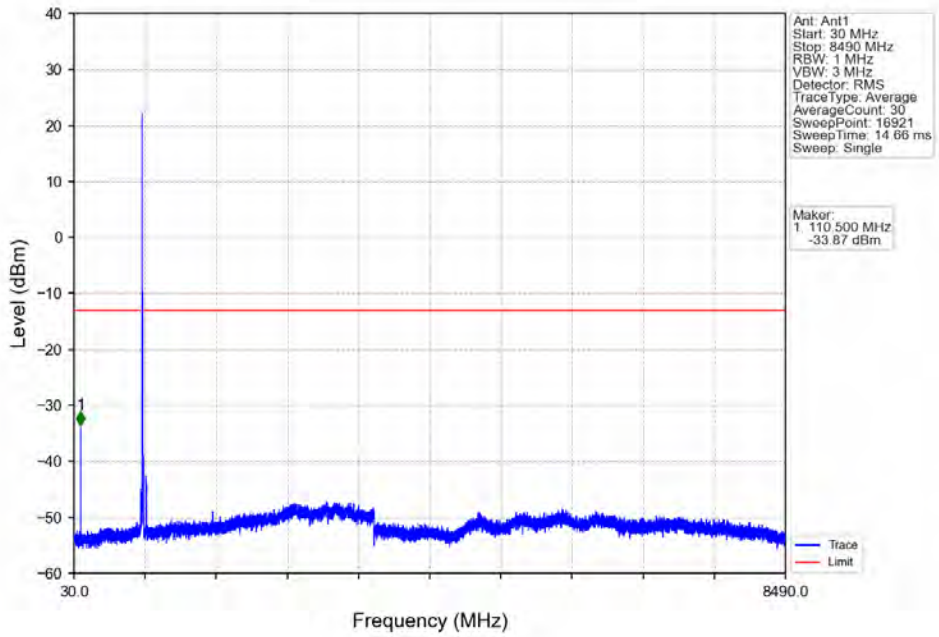


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	823	0.1	/	1	822.360	-30.79	-13	Pass
823	824	0.101	/	2	824.000	-27.53	-13	Pass
824	834	0.101	/	/	/	/	/	/

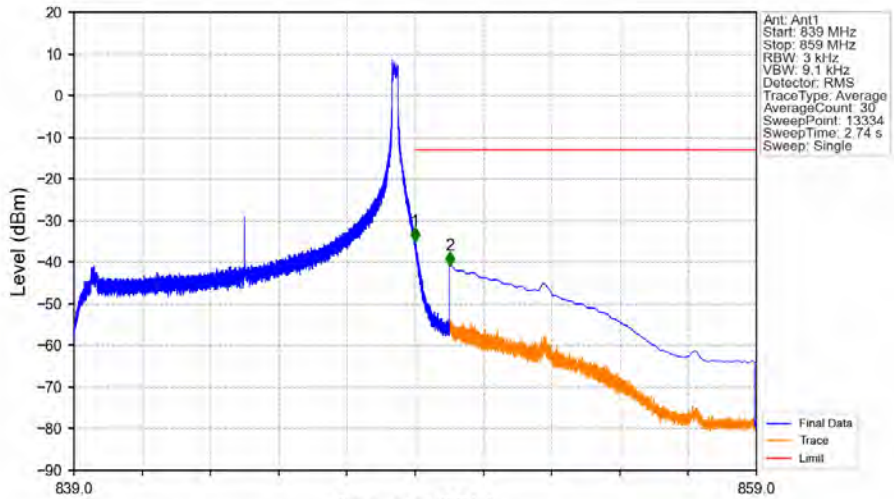
Band5_10MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



Band5_10MHz_QPSK_HCH_844MHz_RB_1_0_NTNV

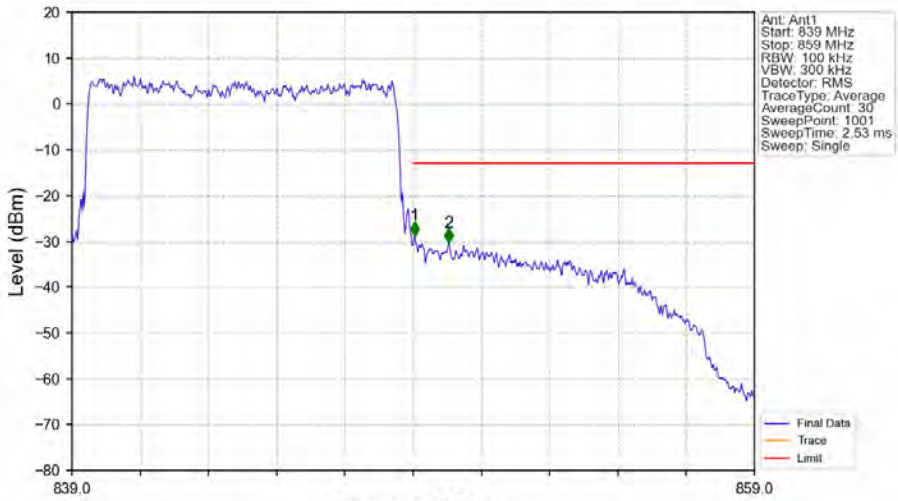


Band5_10MHz_QPSK_HCH_844MHz_RB_1_49_NTNV



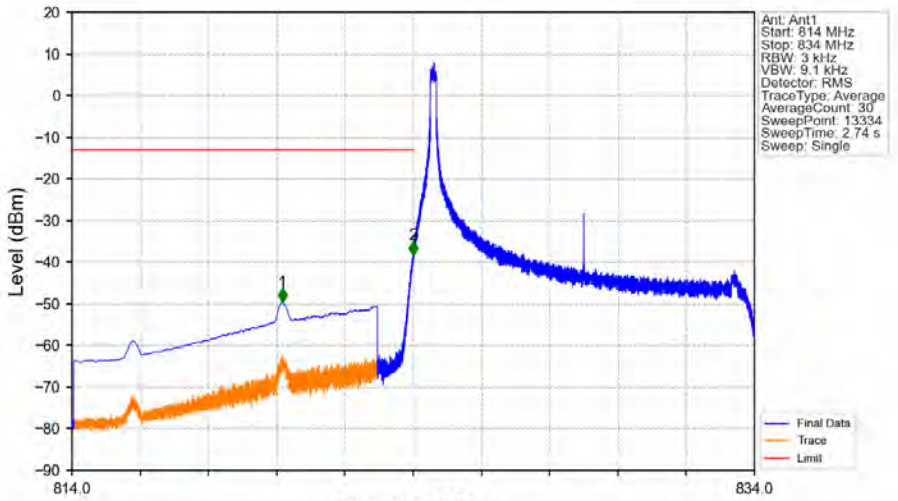
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.001	-35.00	-13	Pass
850	859	0.1	CHP	2	850.028	-40.85	-13	Pass

Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



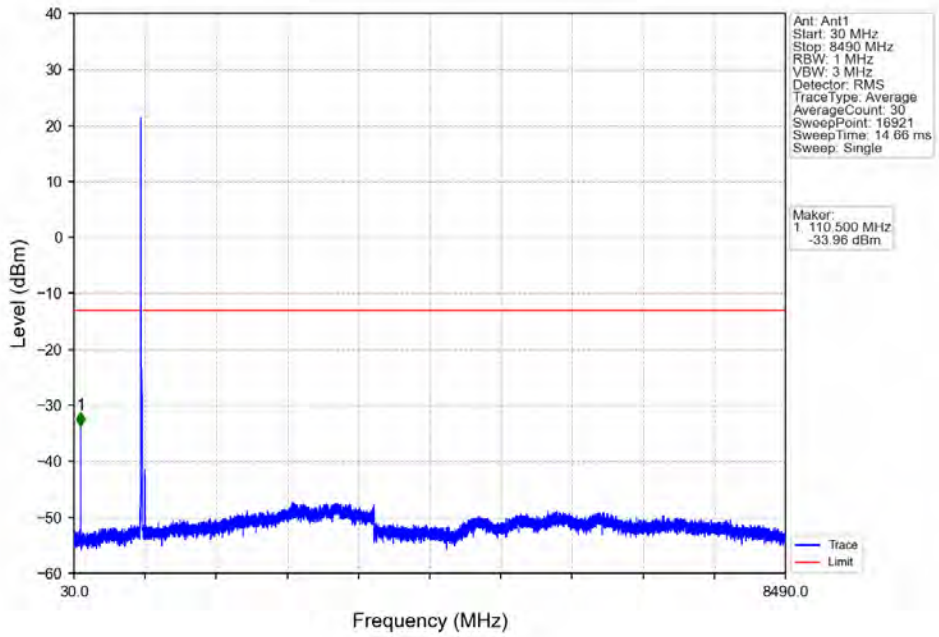
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.101	/	/	/	/	/	/
849	850	0.101	/	1	849.040	-28.80	-13	Pass
850	859	0.1	/	2	850.040	-30.22	-13	Pass

Band5_10MHz_16QAM_LCH_829MHz_RB_1_0_NTNV

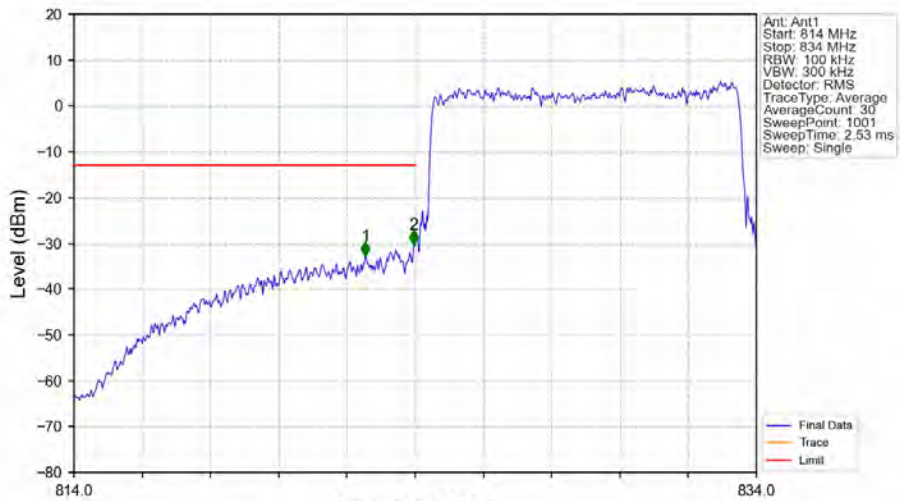


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	823	0.1	CHP	1	820.159	-49.67	-13	Pass
823	824	0.003	/	2	823.999	-38.30	-13	Pass
824	834	0.003	/	/	/	/	/	/

Band5_10MHz_16QAM_LCH_829MHz_RB_1_0_NTNV

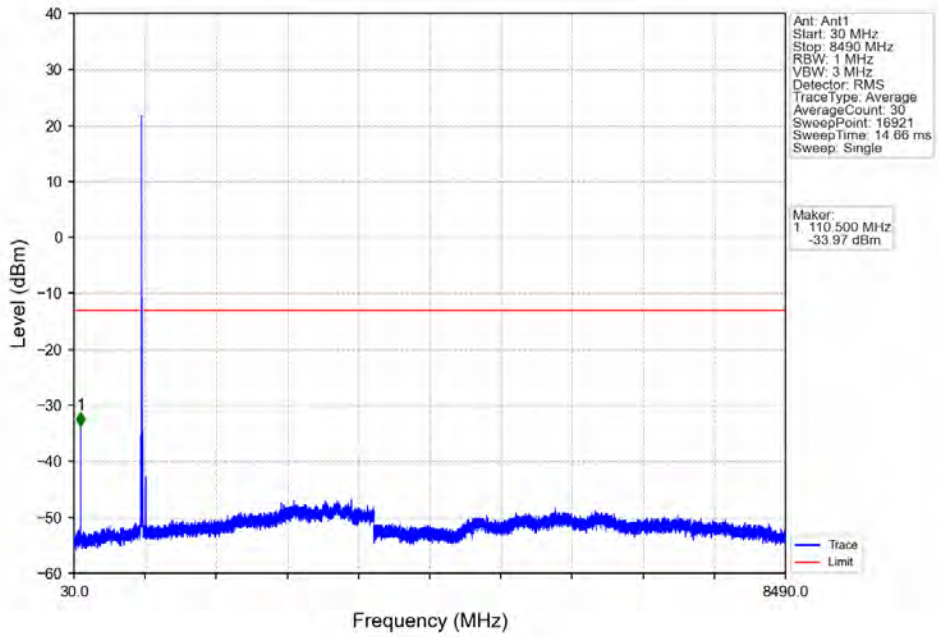


Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV

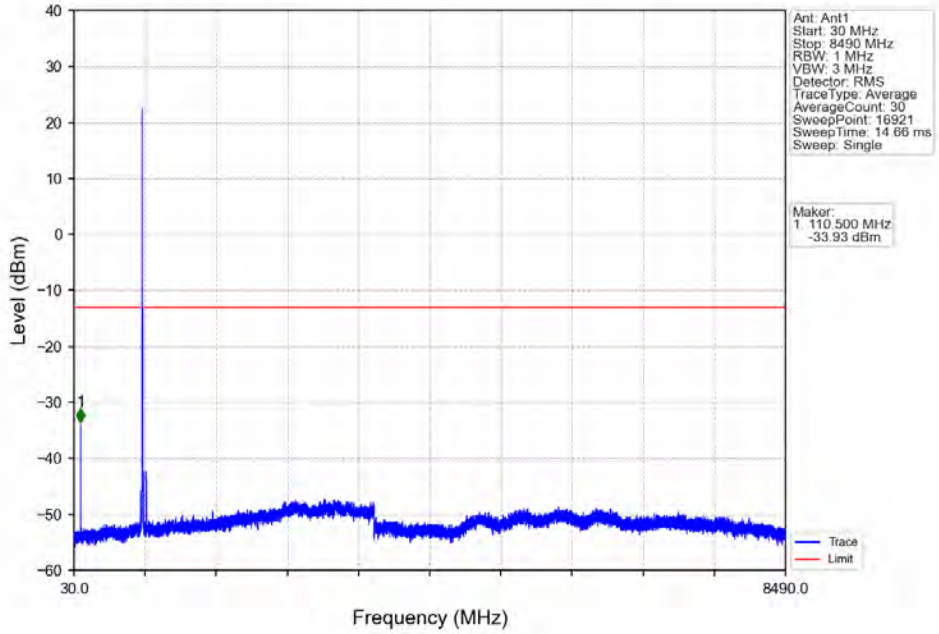


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	823	0.1	/	1	822.540	-32.70	-13	Pass
823	824	0.101	/	2	823.960	-30.26	-13	Pass
824	834	0.101	/	/	/	/	/	/

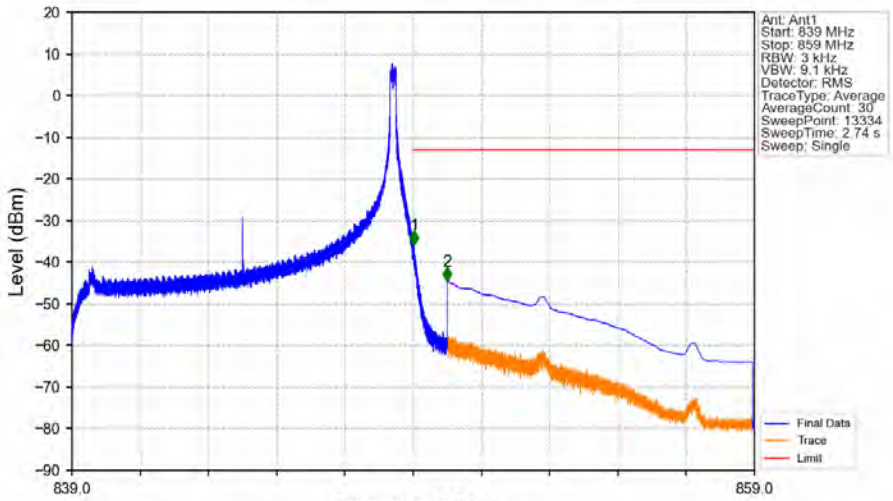
Band5_10MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV



Band5_10MHz_16QAM_HCH_844MHz_RB_1_0_NTNV

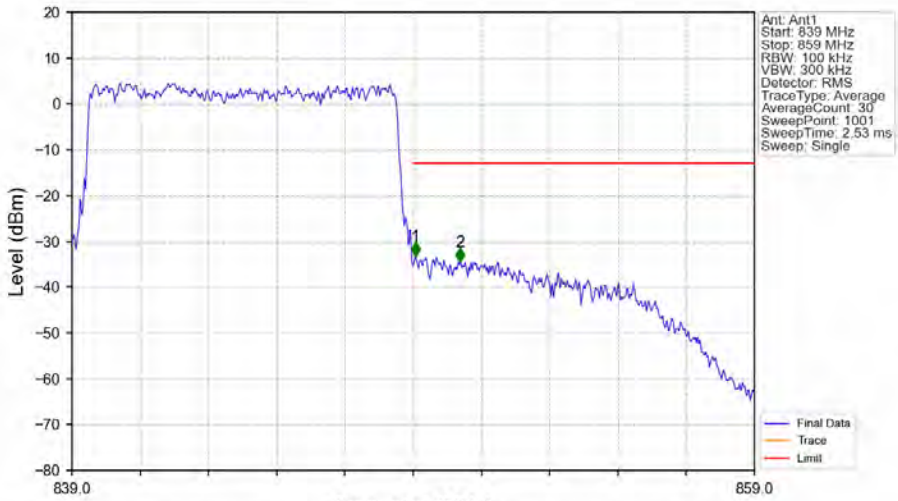


Band5_10MHz_16QAM_HCH_844MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.029	-35.84	-13	Pass
850	859	0.1	CHP	2	850.001	-44.68	-13	Pass

Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.101	/	/	/	/	/	/
849	850	0.101	/	1	849.060	-33.27	-13	Pass
850	859	0.1	/	2	850.380	-34.49	-13	Pass

7. Form731

7.1 Form731_Power

7.1.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
5	1.4	824.7	848.3	0.2208	0.0569	ppm	1M11G7D	22H	23.44
5	1.4	824.7	848.3	0.1820	0.0594	ppm	1M13W7D	22H	22.60
5	3	825.5	847.5	0.2223	0.0525	ppm	2M77G7D	22H	23.47
5	3	825.5	847.5	0.2000	0.0566	ppm	2M78W7D	22H	23.01
5	5	826.5	846.5	0.2193	0.0587	ppm	4M57G7D	22H	23.41
5	5	826.5	846.5	0.1811	0.0509	ppm	4M59W7D	22H	22.58
5	10	829	844	0.2228	0.0497	ppm	9M13G7D	22H	23.48
5	10	829	844	0.1774	0.0298	ppm	9M12W7D	22H	22.49

7.2 Form731_ERP

7.2.1 Test Result

Band	BW	Lower Freq	High Freq	MAX Power (W)	Value	Hz/ppm	Emission Designator	Rule Parts	MAX Power (dBm)
5	1.4	824.7	848.3	0.0815	0.0569	ppm	1M11G7D	22H	19.11
5	1.4	824.7	848.3	0.0671	0.0594	ppm	1M13W7D	22H	18.27
5	3	825.5	847.5	0.0820	0.0525	ppm	2M77G7D	22H	19.14
5	3	825.5	847.5	0.0738	0.0566	ppm	2M78W7D	22H	18.68
5	5	826.5	846.5	0.0809	0.0587	ppm	4M57G7D	22H	19.08
5	5	826.5	846.5	0.0668	0.0509	ppm	4M59W7D	22H	18.25
5	10	829	844	0.0822	0.0497	ppm	9M13G7D	22H	19.15
5	10	829	844	0.0655	0.0298	ppm	9M12W7D	22H	18.16