1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B5_1.4MHz_ERP

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	21.75	-0.71	18.89	<=38.45	Pass
			2	21.69	-0.71	18.83	<=38.45	Pass
			5	21.72	-0.71	18.86	<=38.45	Pass
		3	0	21.66	-0.71	18.80	<=38.45	Pass
			2	21.70	-0.71	18.84	<=38.45	Pass
			3	21.63	-0.71	18.77	<=38.45	Pass
		6	0	21.09	-0.71	18.23	<=38.45	Pass
	836.5	1	0	21.58	-0.71	18.72	<=38.45	Pass
			2	21.83	-0.71	18.97	<=38.45	Pass
			5	21.79	-0.71	18.93	<=38.45	Pass
		3	0	21.77	-0.71	18.91	<=38.45	Pass
			2	21.81	-0.71	18.95	<=38.45	Pass
			3	21.73	-0.71	18.87	<=38.45	Pass
		6	0	21.34	-0.71	18.48	<=38.45	Pass
	848.3	1	0	21.88	-0.71	19.02	<=38.45	Pass
			2	21.94	-0.71	19.08	<=38.45	Pass
			5	21.94	-0.71	19.08	<=38.45	Pass
		3	0	21.90	-0.71	19.04	<=38.45	Pass
			2	21.88	-0.71	19.02	<=38.45	Pass
			3	21.90	-0.71	19.04	<=38.45	Pass
		6	0	21.43	-0.71	18.57	<=38.45	Pass
16QAM	824.7	1	0	20.65	-0.71	17.79	<=38.45	Pass
			2	20.64	-0.71	17.78	<=38.45	Pass
			5	20.65	-0.71	17.79	<=38.45	Pass
		3	0	20.98	-0.71	18.12	<=38.45	Pass
			2	21.01	-0.71	18.15	<=38.45	Pass
			3	20.94	-0.71	18.08	<=38.45	Pass
		6	0	20.32	-0.71	17.46	<=38.45	Pass
	836.5	1	0	21.30	-0.71	18.44	<=38.45	Pass
			2	21.43	-0.71	18.57	<=38.45	Pass
			5	21.40	-0.71	18.54	<=38.45	Pass
		3	0	21.35	-0.71	18.49	<=38.45	Pass
			2	21.38	-0.71	18.52	<=38.45	Pass
			3	21.34	-0.71	18.48	<=38.45	Pass
		6	0	20.50	-0.71	17.64	<=38.45	Pass
	848.3	1	0	21.47	-0.71	18.61	<=38.45	Pass
			2	21.49	-0.71	18.63	<=38.45	Pass
			5	21.45	-0.71	18.59	<=38.45	Pass
		3	0	21.26	-0.71	18.40	<=38.45	Pass
			2	21.25	-0.71	18.39	<=38.45	Pass
			3	21.33	-0.71	18.47	<=38.45	Pass
		6	0	20.42	-0.71	17.56	<=38.45	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.2 B5_3MHz_ERP

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	21.60	-0.71	18.74	<=38.45	Pass
			7	21.58	-0.71	18.72	<=38.45	Pass
			14	21.57	-0.71	18.71	<=38.45	Pass
		8	0	21.20	-0.71	18.34	<=38.45	Pass
			4	21.18	-0.71	18.32	<=38.45	Pass
			7	21.13	-0.71	18.27	<=38.45	Pass
		15	0	21.13	-0.71	18.27	<=38.45	Pass
	836.5	1	0	21.78	-0.71	18.92	<=38.45	Pass
			7	21.77	-0.71	18.91	<=38.45	Pass
			14	21.78	-0.71	18.92	<=38.45	Pass
		8	0	21.29	-0.71	18.43	<=38.45	Pass
			4	21.27	-0.71	18.41	<=38.45	Pass
			7	21.27	-0.71	18.41	<=38.45	Pass
		15	0	21.26	-0.71	18.40	<=38.45	Pass
	847.5	1	0	21.85	-0.71	18.99	<=38.45	Pass
			7	21.87	-0.71	19.01	<=38.45	Pass
			14	21.90	-0.71	19.04	<=38.45	Pass
		8	0	21.32	-0.71	18.46	<=38.45	Pass
			4	21.33	-0.71	18.47	<=38.45	Pass
			7	21.43	-0.71	18.57	<=38.45	Pass
		15	0	21.37	-0.71	18.51	<=38.45	Pass
16QAM	825.5	1	0	21.56	-0.71	18.70	<=38.45	Pass
			7	21.58	-0.71	18.72	<=38.45	Pass
			14	21.51	-0.71	18.65	<=38.45	Pass
		8	0	20.53	-0.71	17.67	<=38.45	Pass
			4	20.43	-0.71	17.57	<=38.45	Pass
			7	20.58	-0.71	17.72	<=38.45	Pass
		15	0	20.27	-0.71	17.41	<=38.45	Pass
	836.5	1	0	20.80	-0.71	17.94	<=38.45	Pass
			7	20.92	-0.71	18.06	<=38.45	Pass
			14	20.80	-0.71	17.94	<=38.45	Pass
		8	0	20.43	-0.71	17.57	<=38.45	Pass
			4	20.46	-0.71	17.60	<=38.45	Pass
			7	20.49	-0.71	17.63	<=38.45	Pass
		15	0	20.36	-0.71	17.50	<=38.45	Pass
	847.5	1	0	22.32	-0.71	19.46	<=38.45	Pass
			7	22.36	-0.71	19.50	<=38.45	Pass
			14	22.32	-0.71	19.46	<=38.45	Pass
		8	0	20.55	-0.71	17.69	<=38.45	Pass
			4	20.57	-0.71	17.71	<=38.45	Pass
			7	20.52	-0.71	17.66	<=38.45	Pass
		15	0	20.55	-0.71	17.69	<=38.45	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.3 B5_5MHz_ERP

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	21.59	-0.71	18.73	<=38.45	Pass
			13	21.60	-0.71	18.74	<=38.45	Pass
			24	21.63	-0.71	18.77	<=38.45	Pass
		12	0	21.18	-0.71	18.32	<=38.45	Pass
			6	21.12	-0.71	18.26	<=38.45	Pass
			13	21.11	-0.71	18.25	<=38.45	Pass

		25	0	21.10	-0.71	18.24	<=38.45	Pass
	836.5	1	0	21.51	-0.71	18.65	<=38.45	Pass
			13	21.62	-0.71	18.76	<=38.45	Pass
			24	21.65	-0.71	18.79	<=38.45	Pass
		12	0	21.23	-0.71	18.37	<=38.45	Pass
			6	21.19	-0.71	18.33	<=38.45	Pass
			13	21.16	-0.71	18.30	<=38.45	Pass
		25	0	21.22	-0.71	18.36	<=38.45	Pass
	846.5	1	0	21.88	-0.71	19.02	<=38.45	Pass
			13	21.86	-0.71	19.00	<=38.45	Pass
			24	21.90	-0.71	19.04	<=38.45	Pass
		12	0	21.42	-0.71	18.56	<=38.45	Pass
			6	21.41	-0.71	18.55	<=38.45	Pass
			13	21.38	-0.71	18.52	<=38.45	Pass
		25	0	21.38	-0.71	18.52	<=38.45	Pass
16QAM	826.5	1	0	20.18	-0.71	17.32	<=38.45	Pass
			13	20.21	-0.71	17.35	<=38.45	Pass
			24	20.14	-0.71	17.28	<=38.45	Pass
		12	0	20.18	-0.71	17.32	<=38.45	Pass
			6	20.19	-0.71	17.33	<=38.45	Pass
			13	20.22	-0.71	17.36	<=38.45	Pass
		25	0	20.31	-0.71	17.45	<=38.45	Pass
	836.5	1	0	21.21	-0.71	18.35	<=38.45	Pass
			13	21.32	-0.71	18.46	<=38.45	Pass
			24	21.40	-0.71	18.54	<=38.45	Pass
		12	0	20.18	-0.71	17.32	<=38.45	Pass
			6	20.33	-0.71	17.47	<=38.45	Pass
			13	20.30	-0.71	17.44	<=38.45	Pass
		25	0	20.34	-0.71	17.48	<=38.45	Pass
	846.5	1	0	21.31	-0.71	18.45	<=38.45	Pass
			13	21.34	-0.71	18.48	<=38.45	Pass
			24	21.37	-0.71	18.51	<=38.45	Pass
		12	0	20.24	-0.71	17.38	<=38.45	Pass
			6	20.28	-0.71	17.42	<=38.45	Pass
			13	20.33	-0.71	17.47	<=38.45	Pass
		25	0	20.35	-0.71	17.49	<=38.45	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

1.1.4 B5_10MHz_ERP

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	21.58	-0.71	18.72	<=38.45	Pass
			25	21.56	-0.71	18.70	<=38.45	Pass
			49	21.64	-0.71	18.78	<=38.45	Pass
		25	0	21.16	-0.71	18.30	<=38.45	Pass
			13	21.05	-0.71	18.19	<=38.45	Pass
			25	21.23	-0.71	18.37	<=38.45	Pass
		50	0	21.05	-0.71	18.19	<=38.45	Pass
	836.5	1	0	21.48	-0.71	18.62	<=38.45	Pass
			25	21.63	-0.71	18.77	<=38.45	Pass
			49	21.66	-0.71	18.80	<=38.45	Pass
		25	0	21.16	-0.71	18.30	<=38.45	Pass
			13	21.30	-0.71	18.44	<=38.45	Pass
			25	21.35	-0.71	18.49	<=38.45	Pass
		50	0	21.28	-0.71	18.42	<=38.45	Pass

	844	1	0	21.85	-0.71	18.99	<=38.45	Pass
			25	21.80	-0.71	18.94	<=38.45	Pass
			49	21.87	-0.71	19.01	<=38.45	Pass
		25	0	21.77	-0.71	18.91	<=38.45	Pass
			13	21.33	-0.71	18.47	<=38.45	Pass
			25	21.40	-0.71	18.54	<=38.45	Pass
		50	0	21.29	-0.71	18.43	<=38.45	Pass
16QAM	829	1	0	21.29	-0.71	18.43	<=38.45	Pass
			25	21.22	-0.71	18.36	<=38.45	Pass
			49	21.44	-0.71	18.58	<=38.45	Pass
		25	0	20.33	-0.71	17.47	<=38.45	Pass
			13	20.32	-0.71	17.46	<=38.45	Pass
			25	20.71	-0.71	17.85	<=38.45	Pass
		50	0	20.30	-0.71	17.44	<=38.45	Pass
	836.5	1	0	21.57	-0.71	18.71	<=38.45	Pass
			25	21.75	-0.71	18.89	<=38.45	Pass
			49	22.08	-0.71	19.22	<=38.45	Pass
		25	0	20.32	-0.71	17.46	<=38.45	Pass
			13	20.32	-0.71	17.46	<=38.45	Pass
			25	20.33	-0.71	17.47	<=38.45	Pass
		50	0	20.39	-0.71	17.53	<=38.45	Pass
	844	1	0	20.79	-0.71	17.93	<=38.45	Pass
			25	20.84	-0.71	17.98	<=38.45	Pass
			49	20.94	-0.71	18.08	<=38.45	Pass
		25	0	20.87	-0.71	18.01	<=38.45	Pass
			13	20.65	-0.71	17.79	<=38.45	Pass
			25	20.65	-0.71	17.79	<=38.45	Pass
		50	0	20.42	-0.71	17.56	<=38.45	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 Test Result

2.1.1 B5_1.4MHz

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	9.828	0.0119	-2.5 to 2.5	Pass
					3.85	-9.685	-0.0117	-2.5 to 2.5	Pass
					4.43	-31.657	-0.0384	-2.5 to 2.5	Pass
				-30	3.85	2.904	0.0035	-2.5 to 2.5	Pass
				-20	3.85	-5.064	-0.0061	-2.5 to 2.5	Pass
				-10	3.85	-11.859	-0.0144	-2.5 to 2.5	Pass
				0	3.85	-18.153	-0.0220	-2.5 to 2.5	Pass
				10	3.85	-20.270	-0.0246	-2.5 to 2.5	Pass
				30	3.85	-25.821	-0.0313	-2.5 to 2.5	Pass
				40	3.85	-27.552	-0.0334	-2.5 to 2.5	Pass
				50	3.85	-28.310	-0.0343	-2.5 to 2.5	Pass
	836.5	6	0	20	3.27	8.368	0.0100	-2.5 to 2.5	Pass
					3.85	6.795	0.0081	-2.5 to 2.5	Pass
					4.43	3.805	0.0045	-2.5 to 2.5	Pass
				-30	3.85	0.887	0.0011	-2.5 to 2.5	Pass
				-20	3.85	-2.761	-0.0033	-2.5 to 2.5	Pass
				-10	3.85	-2.160	-0.0026	-2.5 to 2.5	Pass

				0	3.85	-2.561	-0.0031	-2.5 to 2.5	Pass
				10	3.85	-4.377	-0.0052	-2.5 to 2.5	Pass
				30	3.85	-5.980	-0.0071	-2.5 to 2.5	Pass
				40	3.85	-6.194	-0.0074	-2.5 to 2.5	Pass
				50	3.85	-6.337	-0.0076	-2.5 to 2.5	Pass
	848.3	6	0	20	3.27	-12.302	-0.0145	-2.5 to 2.5	Pass
					3.85	-16.279	-0.0192	-2.5 to 2.5	Pass
					4.43	-46.577	-0.0549	-2.5 to 2.5	Pass
				-30	3.85	-5.693	-0.0067	-2.5 to 2.5	Pass
				-20	3.85	-47.121	-0.0555	-2.5 to 2.5	Pass
				-10	3.85	-24.319	-0.0287	-2.5 to 2.5	Pass
				0	3.85	-42.129	-0.0497	-2.5 to 2.5	Pass
				10	3.85	-6.709	-0.0079	-2.5 to 2.5	Pass
				30	3.85	-14.176	-0.0167	-2.5 to 2.5	Pass
				40	3.85	-20.714	-0.0244	-2.5 to 2.5	Pass
				50	3.85	-27.037	-0.0319	-2.5 to 2.5	Pass
16QAM	824.7	6	0	20	3.27	-31.056	-0.0377	-2.5 to 2.5	Pass
					3.85	-29.554	-0.0358	-2.5 to 2.5	Pass
					4.43	-27.308	-0.0331	-2.5 to 2.5	Pass
				-30	3.85	-26.279	-0.0319	-2.5 to 2.5	Pass
				-20	3.85	-27.981	-0.0339	-2.5 to 2.5	Pass
				-10	3.85	-27.609	-0.0335	-2.5 to 2.5	Pass
				0	3.85	-27.766	-0.0337	-2.5 to 2.5	Pass
				10	3.85	-26.779	-0.0325	-2.5 to 2.5	Pass
				30	3.85	-25.349	-0.0307	-2.5 to 2.5	Pass
				40	3.85	-26.493	-0.0321	-2.5 to 2.5	Pass
				50	3.85	-27.208	-0.0330	-2.5 to 2.5	Pass
	836.5	6	0	20	3.27	-6.394	-0.0076	-2.5 to 2.5	Pass
					3.85	-7.625	-0.0091	-2.5 to 2.5	Pass
					4.43	-6.280	-0.0075	-2.5 to 2.5	Pass
				-30	3.85	-5.851	-0.0070	-2.5 to 2.5	Pass
				-20	3.85	-4.950	-0.0059	-2.5 to 2.5	Pass
				-10	3.85	-5.207	-0.0062	-2.5 to 2.5	Pass
				0	3.85	-5.035	-0.0060	-2.5 to 2.5	Pass
				10	3.85	-6.351	-0.0076	-2.5 to 2.5	Pass
				30	3.85	-5.665	-0.0068	-2.5 to 2.5	Pass
				40	3.85	-6.022	-0.0072	-2.5 to 2.5	Pass
				50	3.85	-6.180	-0.0074	-2.5 to 2.5	Pass
	848.3	6	0	20	3.27	-27.237	-0.0321	-2.5 to 2.5	Pass
					3.85	-25.992	-0.0306	-2.5 to 2.5	Pass
					4.43	-27.466	-0.0324	-2.5 to 2.5	Pass
				-30	3.85	-27.308	-0.0322	-2.5 to 2.5	Pass
				-20	3.85	-30.842	-0.0364	-2.5 to 2.5	Pass
				-10	3.85	-27.809	-0.0328	-2.5 to 2.5	Pass
				0	3.85	-29.569	-0.0349	-2.5 to 2.5	Pass
				10	3.85	-30.856	-0.0364	-2.5 to 2.5	Pass
				30	3.85	-31.857	-0.0376	-2.5 to 2.5	Pass
				40	3.85	-30.041	-0.0354	-2.5 to 2.5	Pass
				50	3.85	-28.954	-0.0341	-2.5 to 2.5	Pass

2.1.2 B5_3MHz

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	-12.059	-0.0146	-2.5 to 2.5	Pass
					3.85	-43.402	-0.0526	-2.5 to 2.5	Pass

					4.43	-10.200	-0.0124	-2.5 to 2.5	Pass
				-30	3.85	-6.495	-0.0079	-2.5 to 2.5	Pass
				-20	3.85	-41.685	-0.0505	-2.5 to 2.5	Pass
				-10	3.85	-15.235	-0.0185	-2.5 to 2.5	Pass
				0	3.85	-30.570	-0.0370	-2.5 to 2.5	Pass
				10	3.85	-42.701	-0.0517	-2.5 to 2.5	Pass
				30	3.85	-2.074	-0.0025	-2.5 to 2.5	Pass
				40	3.85	-7.954	-0.0096	-2.5 to 2.5	Pass
				50	3.85	-13.161	-0.0159	-2.5 to 2.5	Pass
	836.5	15	0	20	3.27	7.854	0.0094	-2.5 to 2.5	Pass
					3.85	2.460	0.0029	-2.5 to 2.5	Pass
					4.43	0.916	0.0011	-2.5 to 2.5	Pass
				-30	3.85	-2.689	-0.0032	-2.5 to 2.5	Pass
				-20	3.85	-4.320	-0.0052	-2.5 to 2.5	Pass
				-10	3.85	-6.323	-0.0076	-2.5 to 2.5	Pass
				0	3.85	-9.069	-0.0108	-2.5 to 2.5	Pass
				10	3.85	-8.726	-0.0104	-2.5 to 2.5	Pass
				30	3.85	-11.086	-0.0133	-2.5 to 2.5	Pass
				40	3.85	-12.331	-0.0147	-2.5 to 2.5	Pass
				50	3.85	-11.587	-0.0139	-2.5 to 2.5	Pass
	847.5	15	0	20	3.27	0.730	0.0009	-2.5 to 2.5	Pass
					3.85	-9.799	-0.0116	-2.5 to 2.5	Pass
					4.43	-19.441	-0.0229	-2.5 to 2.5	Pass
				-30	3.85	-23.046	-0.0272	-2.5 to 2.5	Pass
				-20	3.85	-24.862	-0.0293	-2.5 to 2.5	Pass
				-10	3.85	-28.210	-0.0333	-2.5 to 2.5	Pass
				0	3.85	-29.469	-0.0348	-2.5 to 2.5	Pass
				10	3.85	-29.726	-0.0351	-2.5 to 2.5	Pass
				30	3.85	-31.743	-0.0375	-2.5 to 2.5	Pass
				40	3.85	-30.684	-0.0362	-2.5 to 2.5	Pass
				50	3.85	-31.729	-0.0374	-2.5 to 2.5	Pass
16QAM	825.5	15	0	20	3.27	-18.053	-0.0219	-2.5 to 2.5	Pass
					3.85	-17.838	-0.0216	-2.5 to 2.5	Pass
					4.43	-19.140	-0.0232	-2.5 to 2.5	Pass
				-30	3.85	-20.142	-0.0244	-2.5 to 2.5	Pass
				-20	3.85	-22.159	-0.0268	-2.5 to 2.5	Pass
				-10	3.85	-22.731	-0.0275	-2.5 to 2.5	Pass
				0	3.85	-23.589	-0.0286	-2.5 to 2.5	Pass
				10	3.85	-24.533	-0.0297	-2.5 to 2.5	Pass
				30	3.85	-25.907	-0.0314	-2.5 to 2.5	Pass
				40	3.85	-28.682	-0.0347	-2.5 to 2.5	Pass
				50	3.85	-28.939	-0.0351	-2.5 to 2.5	Pass
	836.5	15	0	20	3.27	-15.421	-0.0184	-2.5 to 2.5	Pass
					3.85	-10.271	-0.0123	-2.5 to 2.5	Pass
					4.43	-11.702	-0.0140	-2.5 to 2.5	Pass
				-30	3.85	-9.127	-0.0109	-2.5 to 2.5	Pass
				-20	3.85	-8.340	-0.0100	-2.5 to 2.5	Pass
				-10	3.85	-7.510	-0.0090	-2.5 to 2.5	Pass
				0	3.85	-7.381	-0.0088	-2.5 to 2.5	Pass
				10	3.85	-6.995	-0.0084	-2.5 to 2.5	Pass
				30	3.85	-7.067	-0.0084	-2.5 to 2.5	Pass
				40	3.85	-6.995	-0.0084	-2.5 to 2.5	Pass
				50	3.85	-8.397	-0.0100	-2.5 to 2.5	Pass
	847.5	15	0	20	3.27	-30.041	-0.0354	-2.5 to 2.5	Pass
					3.85	-30.599	-0.0361	-2.5 to 2.5	Pass
					4.43	-33.531	-0.0396	-2.5 to 2.5	Pass
				-30	3.85	-32.501	-0.0383	-2.5 to 2.5	Pass
				-20	3.85	-31.843	-0.0376	-2.5 to 2.5	Pass
				-10	3.85	-33.145	-0.0391	-2.5 to 2.5	Pass

				0	3.85	-32.930	-0.0389	-2.5 to 2.5	Pass
				10	3.85	-33.216	-0.0392	-2.5 to 2.5	Pass
				30	3.85	-35.777	-0.0422	-2.5 to 2.5	Pass
				40	3.85	-34.604	-0.0408	-2.5 to 2.5	Pass
				50	3.85	-34.461	-0.0407	-2.5 to 2.5	Pass

2.1.3 B5_5MHz

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	4.191	0.0051	-2.5 to 2.5	Pass
					3.85	-36.249	-0.0439	-2.5 to 2.5	Pass
					4.43	-32.144	-0.0389	-2.5 to 2.5	Pass
				-30	3.85	-20.628	-0.0250	-2.5 to 2.5	Pass
				-20	3.85	-43.530	-0.0527	-2.5 to 2.5	Pass
				-10	3.85	-8.755	-0.0106	-2.5 to 2.5	Pass
				0	3.85	-17.238	-0.0209	-2.5 to 2.5	Pass
				10	3.85	-25.349	-0.0307	-2.5 to 2.5	Pass
				30	3.85	-30.713	-0.0372	-2.5 to 2.5	Pass
				40	3.85	-32.701	-0.0396	-2.5 to 2.5	Pass
				50	3.85	-37.279	-0.0451	-2.5 to 2.5	Pass
	836.5	25	0	20	3.27	11.444	0.0137	-2.5 to 2.5	Pass
					3.85	5.422	0.0065	-2.5 to 2.5	Pass
					4.43	3.877	0.0046	-2.5 to 2.5	Pass
				-30	3.85	0.772	0.0009	-2.5 to 2.5	Pass
				-20	3.85	-0.715	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	-0.629	-0.0008	-2.5 to 2.5	Pass
				0	3.85	-1.130	-0.0014	-2.5 to 2.5	Pass
				10	3.85	-3.920	-0.0047	-2.5 to 2.5	Pass
				30	3.85	-1.917	-0.0023	-2.5 to 2.5	Pass
				40	3.85	-4.749	-0.0057	-2.5 to 2.5	Pass
				50	3.85	-3.033	-0.0036	-2.5 to 2.5	Pass
	846.5	25	0	20	3.27	2.847	0.0034	-2.5 to 2.5	Pass
					3.85	-6.237	-0.0074	-2.5 to 2.5	Pass
					4.43	-12.603	-0.0149	-2.5 to 2.5	Pass
				-30	3.85	-16.608	-0.0196	-2.5 to 2.5	Pass
				-20	3.85	-19.126	-0.0226	-2.5 to 2.5	Pass
				-10	3.85	-19.526	-0.0231	-2.5 to 2.5	Pass
				0	3.85	-23.603	-0.0279	-2.5 to 2.5	Pass
				10	3.85	-23.103	-0.0273	-2.5 to 2.5	Pass
				30	3.85	-24.233	-0.0286	-2.5 to 2.5	Pass
				40	3.85	-25.520	-0.0301	-2.5 to 2.5	Pass
				50	3.85	-27.037	-0.0319	-2.5 to 2.5	Pass
16QAM	826.5	25	0	20	3.27	-40.240	-0.0487	-2.5 to 2.5	Pass
					3.85	-39.668	-0.0480	-2.5 to 2.5	Pass
					4.43	-36.807	-0.0445	-2.5 to 2.5	Pass
				-30	3.85	-36.421	-0.0441	-2.5 to 2.5	Pass
				-20	3.85	-39.582	-0.0479	-2.5 to 2.5	Pass
				-10	3.85	-37.537	-0.0454	-2.5 to 2.5	Pass
				0	3.85	-37.909	-0.0459	-2.5 to 2.5	Pass
				10	3.85	-37.994	-0.0460	-2.5 to 2.5	Pass
				30	3.85	-39.239	-0.0475	-2.5 to 2.5	Pass
				40	3.85	-39.854	-0.0482	-2.5 to 2.5	Pass
				50	3.85	-39.597	-0.0479	-2.5 to 2.5	Pass
	836.5	25	0	20	3.27	-5.379	-0.0064	-2.5 to 2.5	Pass
					3.85	-3.076	-0.0037	-2.5 to 2.5	Pass

					4.43	-2.260	-0.0027	-2.5 to 2.5	Pass
				-30	3.85	1.388	0.0017	-2.5 to 2.5	Pass
				-20	3.85	0.501	0.0006	-2.5 to 2.5	Pass
				-10	3.85	0.787	0.0009	-2.5 to 2.5	Pass
				0	3.85	2.189	0.0026	-2.5 to 2.5	Pass
				10	3.85	0.072	0.0001	-2.5 to 2.5	Pass
				30	3.85	1.044	0.0012	-2.5 to 2.5	Pass
				40	3.85	1.860	0.0022	-2.5 to 2.5	Pass
				50	3.85	2.275	0.0027	-2.5 to 2.5	Pass
	846.5	25	0	20	3.27	-25.306	-0.0299	-2.5 to 2.5	Pass
					3.85	-24.590	-0.0290	-2.5 to 2.5	Pass
					4.43	-25.649	-0.0303	-2.5 to 2.5	Pass
				-30	3.85	-25.864	-0.0306	-2.5 to 2.5	Pass
				-20	3.85	-24.233	-0.0286	-2.5 to 2.5	Pass
				-10	3.85	-26.436	-0.0312	-2.5 to 2.5	Pass
				0	3.85	-25.921	-0.0306	-2.5 to 2.5	Pass
				10	3.85	-25.392	-0.0300	-2.5 to 2.5	Pass
				30	3.85	-24.734	-0.0292	-2.5 to 2.5	Pass
				40	3.85	-26.007	-0.0307	-2.5 to 2.5	Pass
				50	3.85	-25.721	-0.0304	-2.5 to 2.5	Pass

2.1.4 B5_10MHz

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	-4.420	-0.0053	-2.5 to 2.5	Pass
					3.85	-8.926	-0.0108	-2.5 to 2.5	Pass
					4.43	-14.305	-0.0173	-2.5 to 2.5	Pass
				-30	3.85	-10.128	-0.0122	-2.5 to 2.5	Pass
				-20	3.85	-24.691	-0.0298	-2.5 to 2.5	Pass
				-10	3.85	-40.154	-0.0484	-2.5 to 2.5	Pass
				0	3.85	-46.535	-0.0561	-2.5 to 2.5	Pass
				10	3.85	-8.483	-0.0102	-2.5 to 2.5	Pass
				30	3.85	-13.905	-0.0168	-2.5 to 2.5	Pass
				40	3.85	-18.754	-0.0226	-2.5 to 2.5	Pass
				50	3.85	-22.259	-0.0269	-2.5 to 2.5	Pass
	836.5	50	0	20	3.27	10.700	0.0128	-2.5 to 2.5	Pass
					3.85	6.595	0.0079	-2.5 to 2.5	Pass
					4.43	1.373	0.0016	-2.5 to 2.5	Pass
				-30	3.85	-0.901	-0.0011	-2.5 to 2.5	Pass
				-20	3.85	-3.262	-0.0039	-2.5 to 2.5	Pass
				-10	3.85	-6.380	-0.0076	-2.5 to 2.5	Pass
				0	3.85	-7.682	-0.0092	-2.5 to 2.5	Pass
				10	3.85	-9.069	-0.0108	-2.5 to 2.5	Pass
				30	3.85	-9.542	-0.0114	-2.5 to 2.5	Pass
				40	3.85	-10.800	-0.0129	-2.5 to 2.5	Pass
				50	3.85	-11.201	-0.0134	-2.5 to 2.5	Pass
	844	50	0	20	3.27	10.786	0.0128	-2.5 to 2.5	Pass
					3.85	0.787	0.0009	-2.5 to 2.5	Pass
					4.43	-7.896	-0.0094	-2.5 to 2.5	Pass
				-30	3.85	-12.760	-0.0151	-2.5 to 2.5	Pass
				-20	3.85	-16.522	-0.0196	-2.5 to 2.5	Pass
				-10	3.85	-19.412	-0.0230	-2.5 to 2.5	Pass
				0	3.85	-22.974	-0.0272	-2.5 to 2.5	Pass
				10	3.85	-22.931	-0.0272	-2.5 to 2.5	Pass
				30	3.85	-21.915	-0.0260	-2.5 to 2.5	Pass

				40	3.85	-21.501	-0.0255	-2.5 to 2.5	Pass
				50	3.85	-21.687	-0.0257	-2.5 to 2.5	Pass
16QAM	829	50	0	20	3.27	-23.832	-0.0287	-2.5 to 2.5	Pass
					3.85	-21.014	-0.0253	-2.5 to 2.5	Pass
					4.43	-23.060	-0.0278	-2.5 to 2.5	Pass
				-30	3.85	-18.725	-0.0226	-2.5 to 2.5	Pass
				-20	3.85	-19.383	-0.0234	-2.5 to 2.5	Pass
				-10	3.85	-20.041	-0.0242	-2.5 to 2.5	Pass
				0	3.85	-19.870	-0.0240	-2.5 to 2.5	Pass
				10	3.85	-19.112	-0.0231	-2.5 to 2.5	Pass
				30	3.85	-18.296	-0.0221	-2.5 to 2.5	Pass
				40	3.85	-18.039	-0.0218	-2.5 to 2.5	Pass
				50	3.85	-15.764	-0.0190	-2.5 to 2.5	Pass
	836.5	50	0	20	3.27	-9.255	-0.0111	-2.5 to 2.5	Pass
					3.85	-6.652	-0.0080	-2.5 to 2.5	Pass
					4.43	-4.621	-0.0055	-2.5 to 2.5	Pass
				-30	3.85	-5.636	-0.0067	-2.5 to 2.5	Pass
				-20	3.85	-3.219	-0.0038	-2.5 to 2.5	Pass
				-10	3.85	-2.275	-0.0027	-2.5 to 2.5	Pass
				0	3.85	-2.975	-0.0036	-2.5 to 2.5	Pass
				10	3.85	-1.674	-0.0020	-2.5 to 2.5	Pass
				30	3.85	-4.005	-0.0048	-2.5 to 2.5	Pass
				40	3.85	-3.977	-0.0048	-2.5 to 2.5	Pass
				50	3.85	-2.189	-0.0026	-2.5 to 2.5	Pass
	844	50	0	20	3.27	-23.389	-0.0277	-2.5 to 2.5	Pass
					3.85	-22.044	-0.0261	-2.5 to 2.5	Pass
					4.43	-19.569	-0.0232	-2.5 to 2.5	Pass
				-30	3.85	-17.467	-0.0207	-2.5 to 2.5	Pass
				-20	3.85	-17.595	-0.0208	-2.5 to 2.5	Pass
				-10	3.85	-17.295	-0.0205	-2.5 to 2.5	Pass
				0	3.85	-16.866	-0.0200	-2.5 to 2.5	Pass
				10	3.85	-16.665	-0.0197	-2.5 to 2.5	Pass
				30	3.85	-17.281	-0.0205	-2.5 to 2.5	Pass
				40	3.85	-15.435	-0.0183	-2.5 to 2.5	Pass
				50	3.85	-14.791	-0.0175	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B5_1.4MHz

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 B5_3MHz

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

3.1.3 B5_5MHz

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

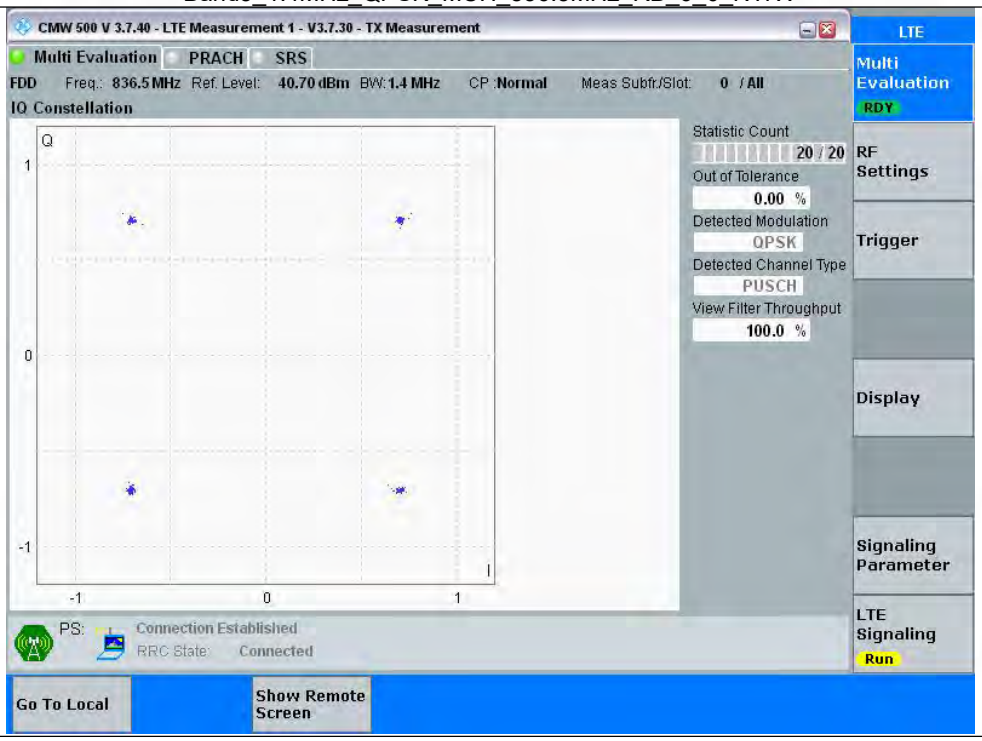
3.1.4 B5_10MHz

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

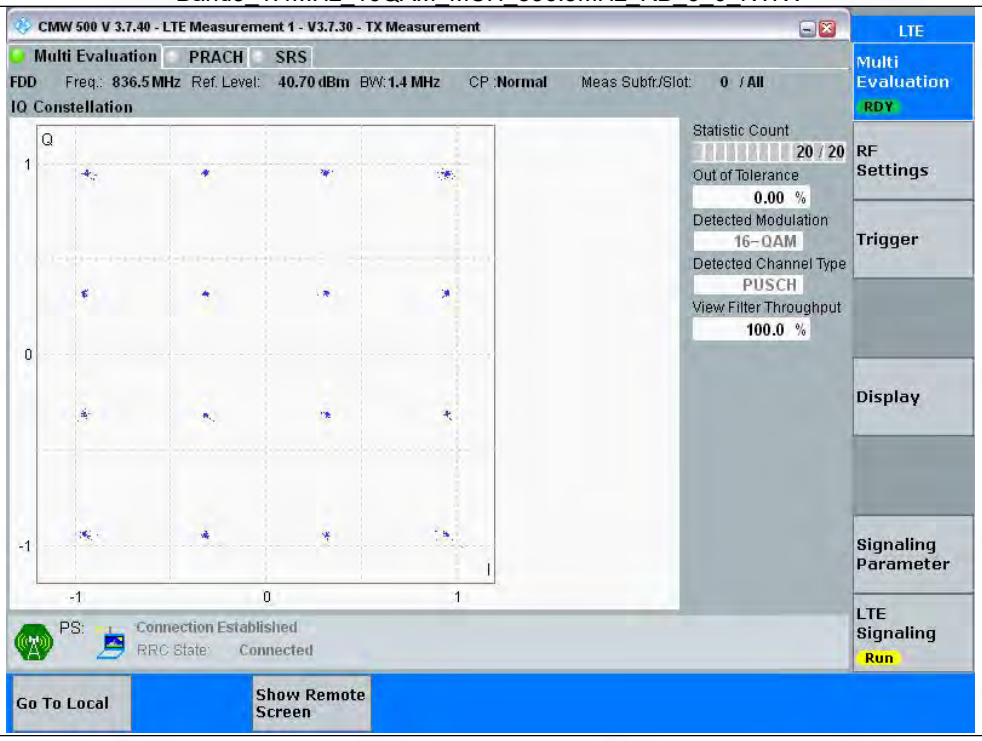
3.2 Test Graph

3.2.1 B5_1.4MHz

Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV

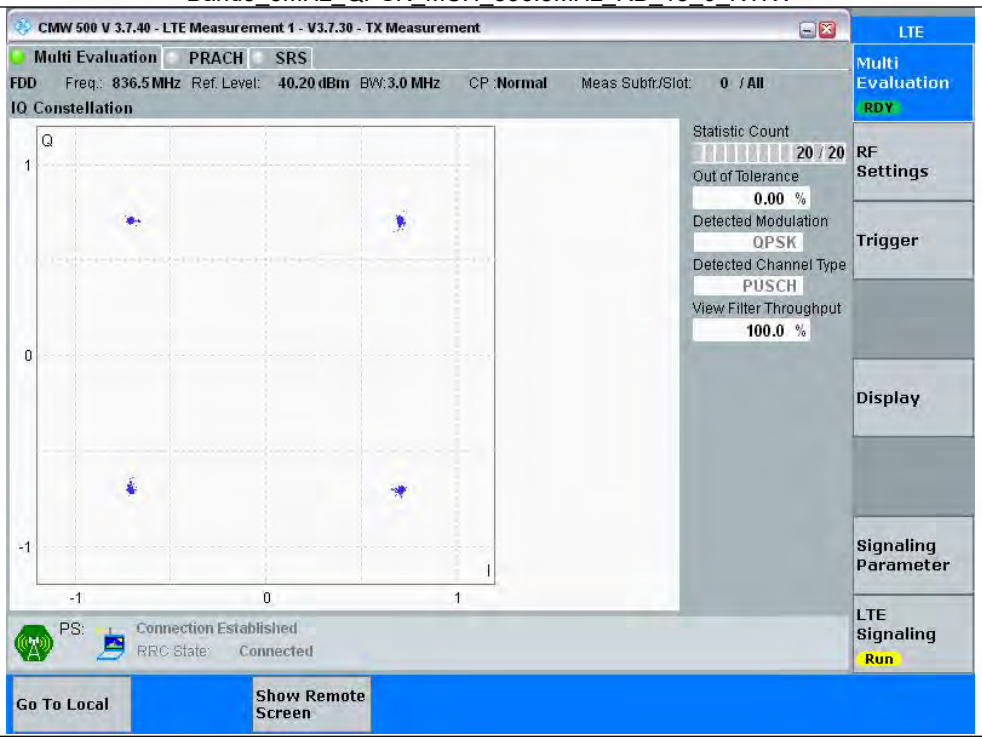


Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV

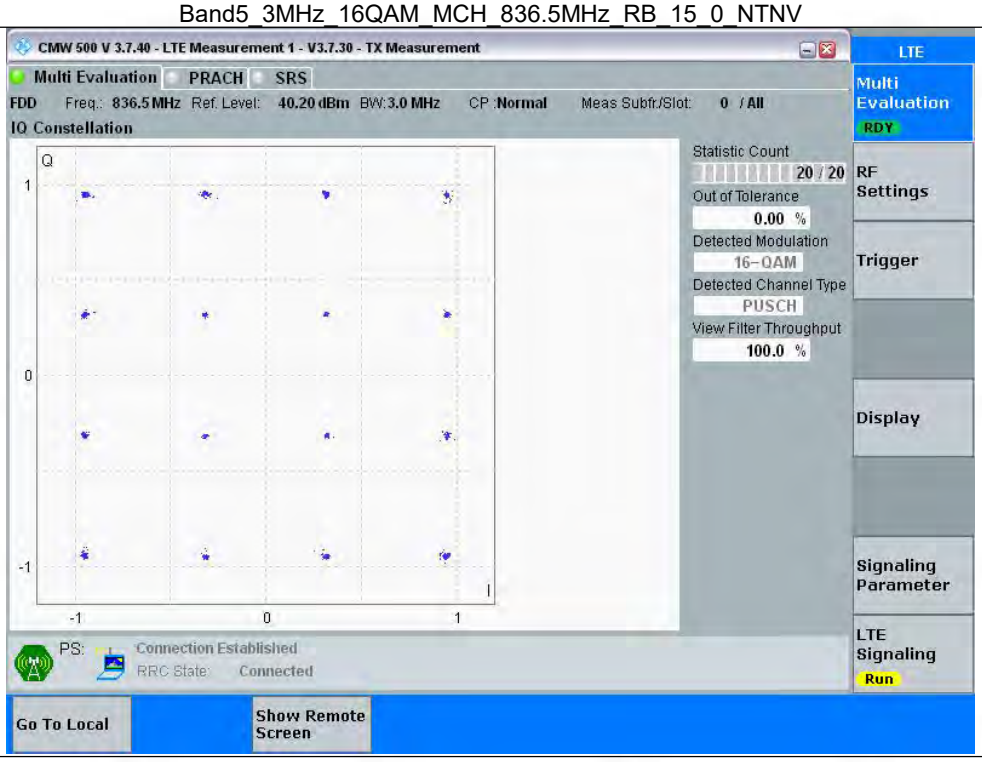


3.2.2 B5_3MHz

Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV

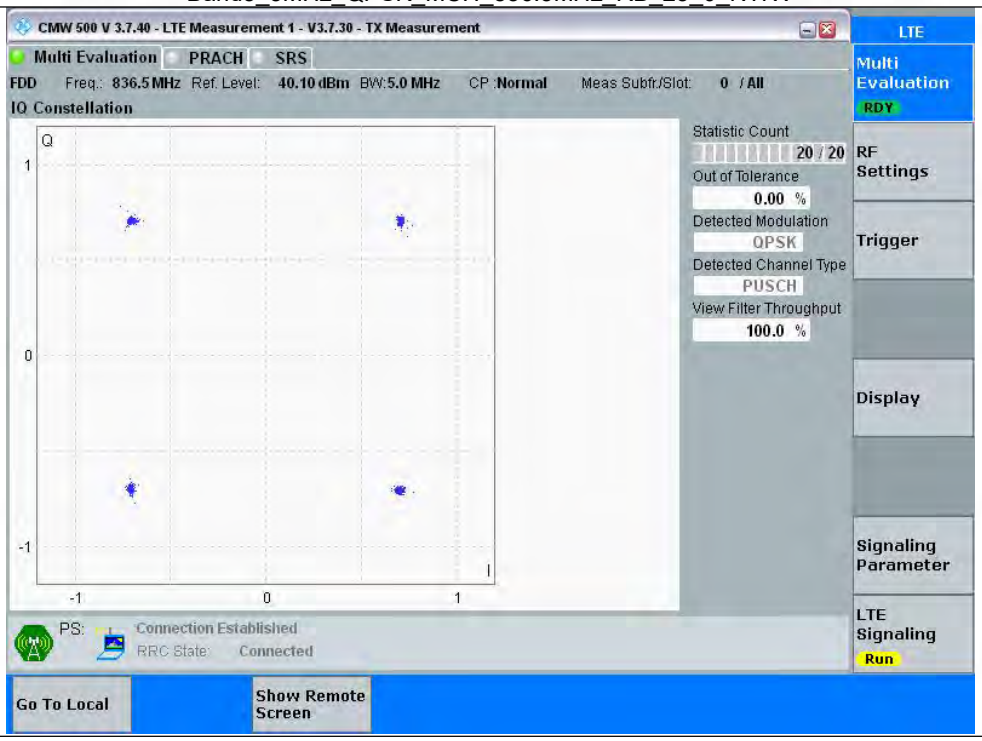


Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV

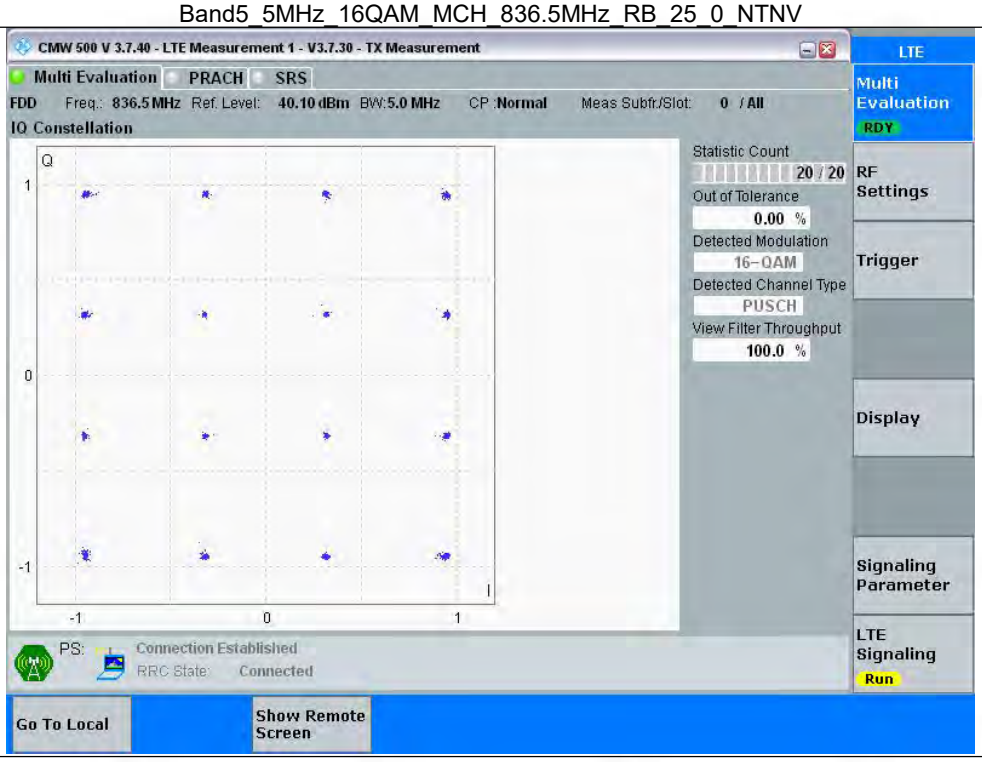


3.2.3 B5_5MHz

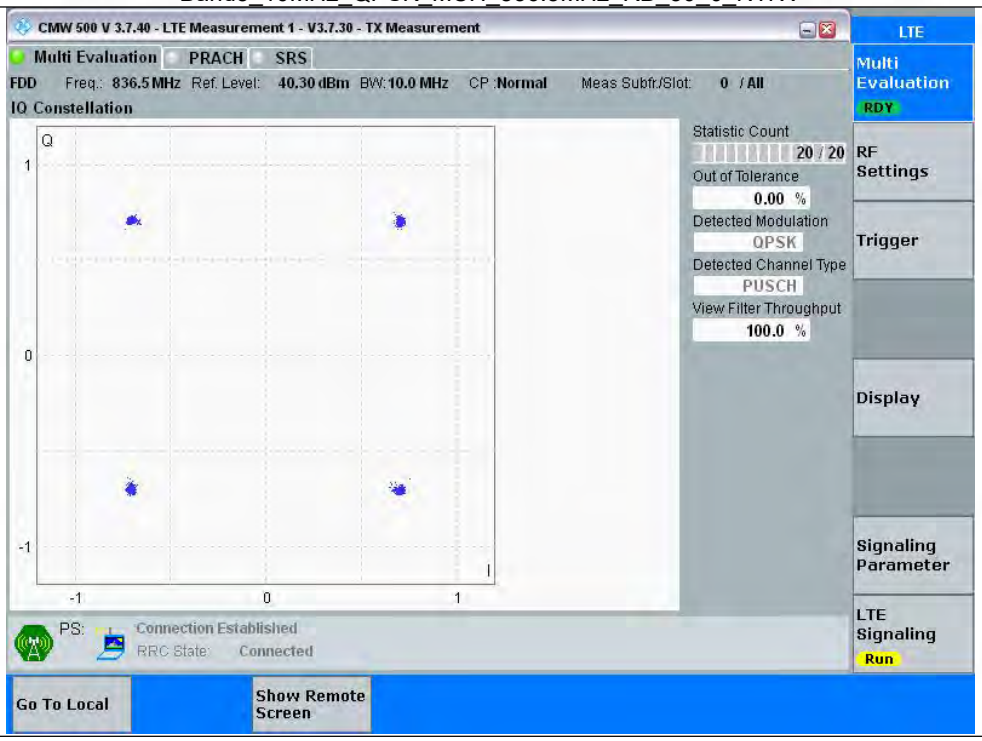
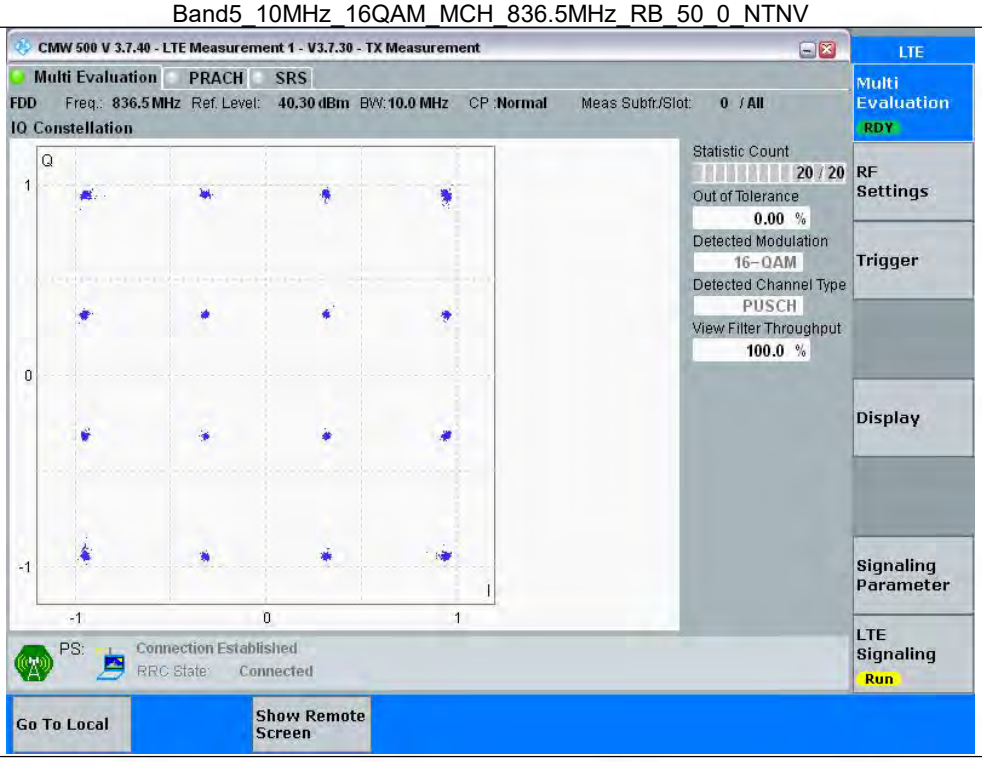
Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



3.2.4 B5_10MHz

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 Test Result

4.1.1 Band5_OBW

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	1.113	/	Pass
		836.5	6	0	1.112	/	Pass
		848.3	6	0	1.115	/	Pass
	16QAM	824.7	6	0	1.108	/	Pass
		836.5	6	0	1.111	/	Pass
		848.3	6	0	1.117	/	Pass
3	QPSK	825.5	15	0	2.760	/	Pass
		836.5	15	0	2.758	/	Pass
		847.5	15	0	2.747	/	Pass
	16QAM	825.5	15	0	2.753	/	Pass
		836.5	15	0	2.759	/	Pass
		847.5	15	0	2.767	/	Pass
5	QPSK	826.5	25	0	4.541	/	Pass
		836.5	25	0	4.549	/	Pass
		846.5	25	0	4.556	/	Pass
	16QAM	826.5	25	0	4.569	/	Pass
		836.5	25	0	4.562	/	Pass
		846.5	25	0	4.559	/	Pass
10	QPSK	829	50	0	9.072	/	Pass
		836.5	50	0	9.054	/	Pass
		844	50	0	9.060	/	Pass
	16QAM	829	50	0	9.061	/	Pass
		836.5	50	0	9.075	/	Pass
		844	50	0	9.098	/	Pass

4.1.2 Band5_XDB

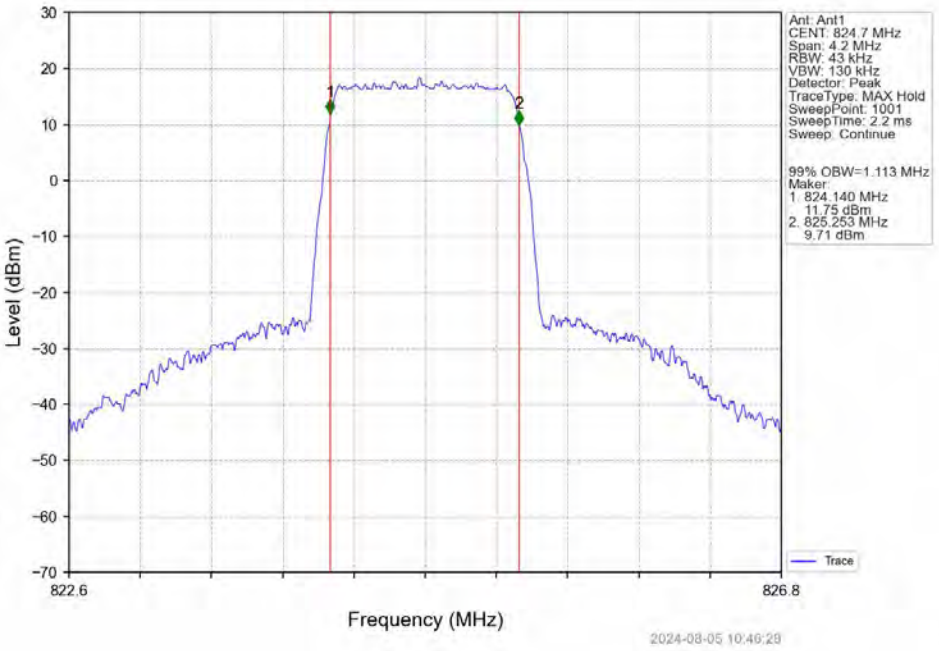
Band: 5 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.270	/	Pass
		836.5	6	0	1.275	/	Pass
		848.3	6	0	1.270	/	Pass
	16QAM	824.7	6	0	1.280	/	Pass
		836.5	6	0	1.267	/	Pass
		848.3	6	0	1.277	/	Pass
3	QPSK	825.5	15	0	3.106	/	Pass
		836.5	15	0	3.081	/	Pass
		847.5	15	0	3.107	/	Pass
	16QAM	825.5	15	0	3.110	/	Pass
		836.5	15	0	3.104	/	Pass
		847.5	15	0	3.118	/	Pass
5	QPSK	826.5	25	0	5.037	/	Pass
		836.5	25	0	5.079	/	Pass
		846.5	25	0	5.063	/	Pass

	16QAM	826.5	25	0	5.078	/	Pass
		836.5	25	0	5.070	/	Pass
		846.5	25	0	5.050	/	Pass
10	QPSK	829	50	0	10.057	/	Pass
		836.5	50	0	10.051	/	Pass
		844	50	0	10.061	/	Pass
	16QAM	829	50	0	10.083	/	Pass
		836.5	50	0	10.034	/	Pass
		844	50	0	10.075	/	Pass

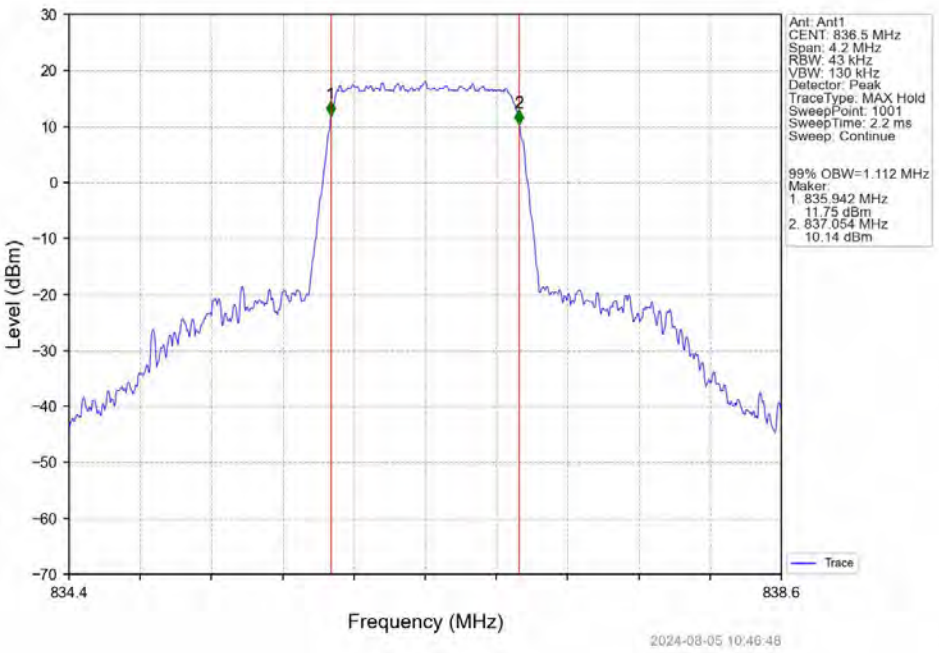
4.2 Test Graph

4.2.1 Band5_OBW

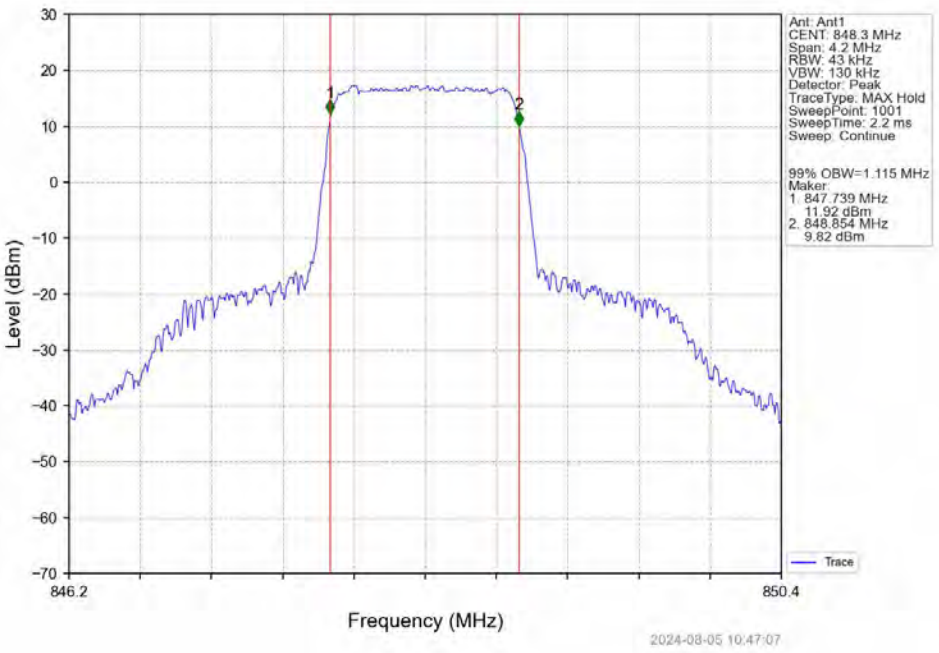
Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



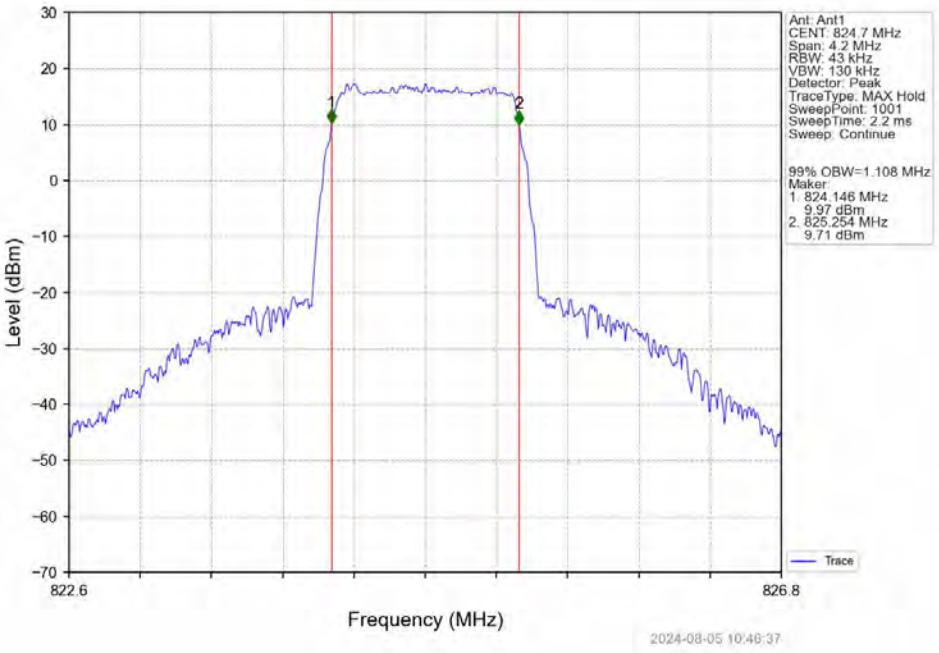
Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV



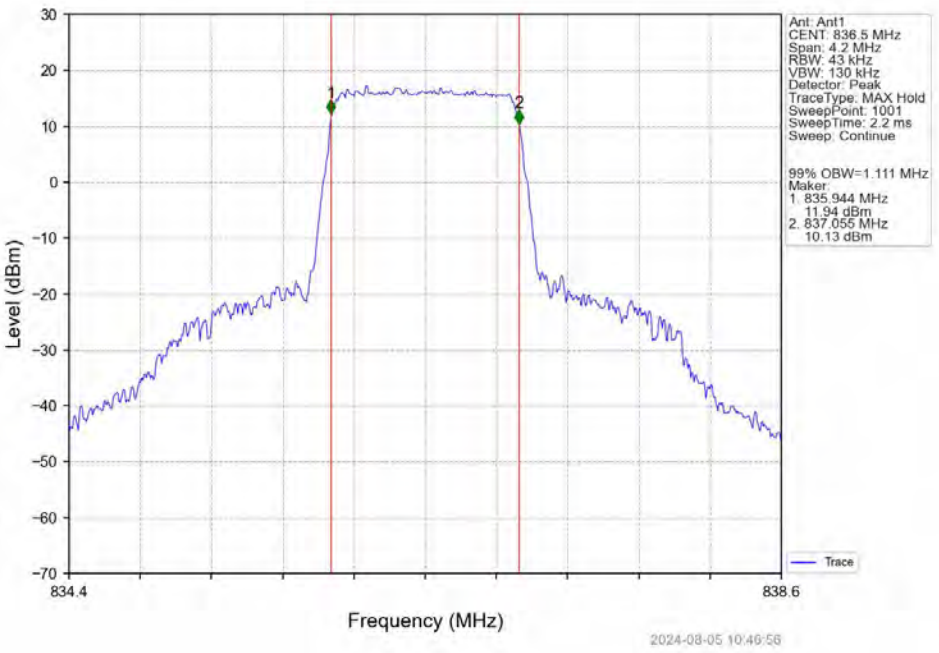
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



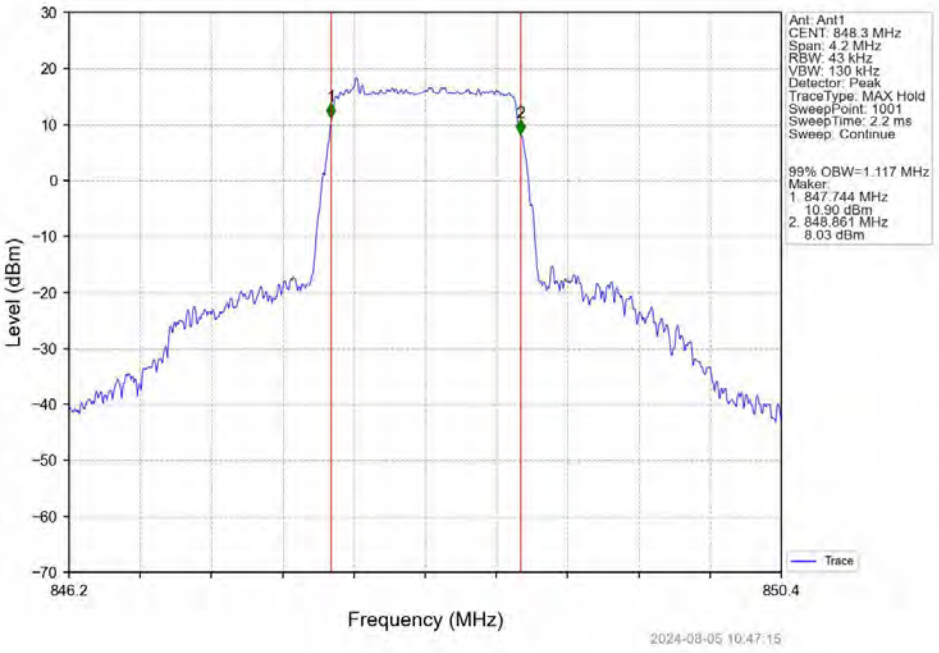
Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



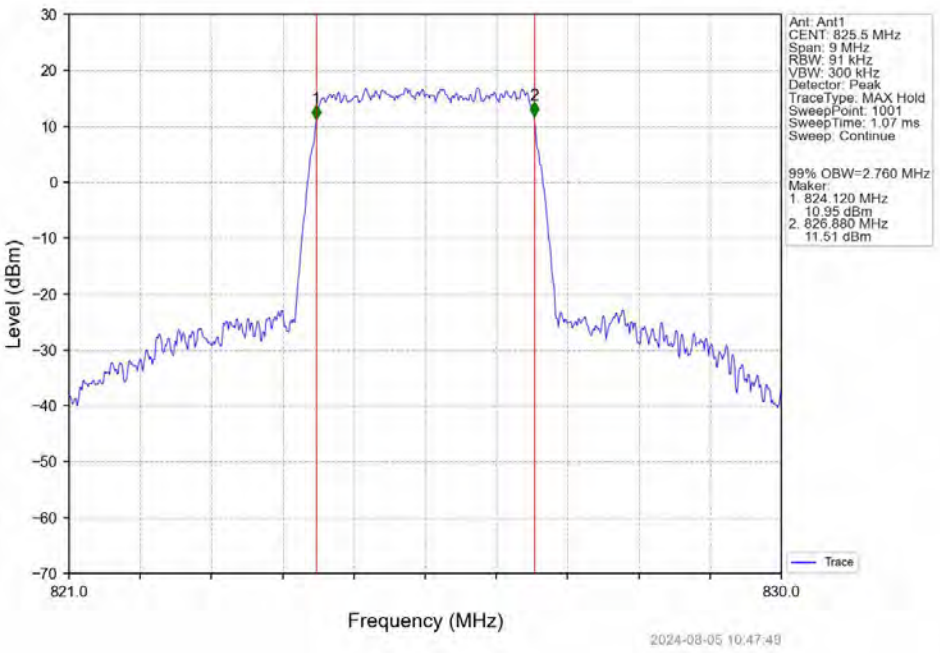
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



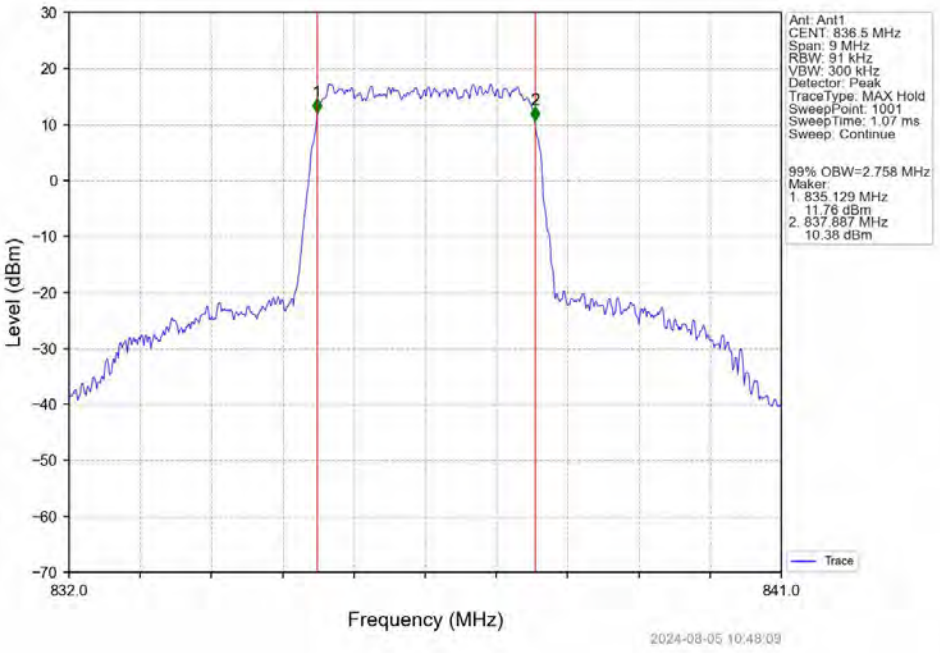
Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



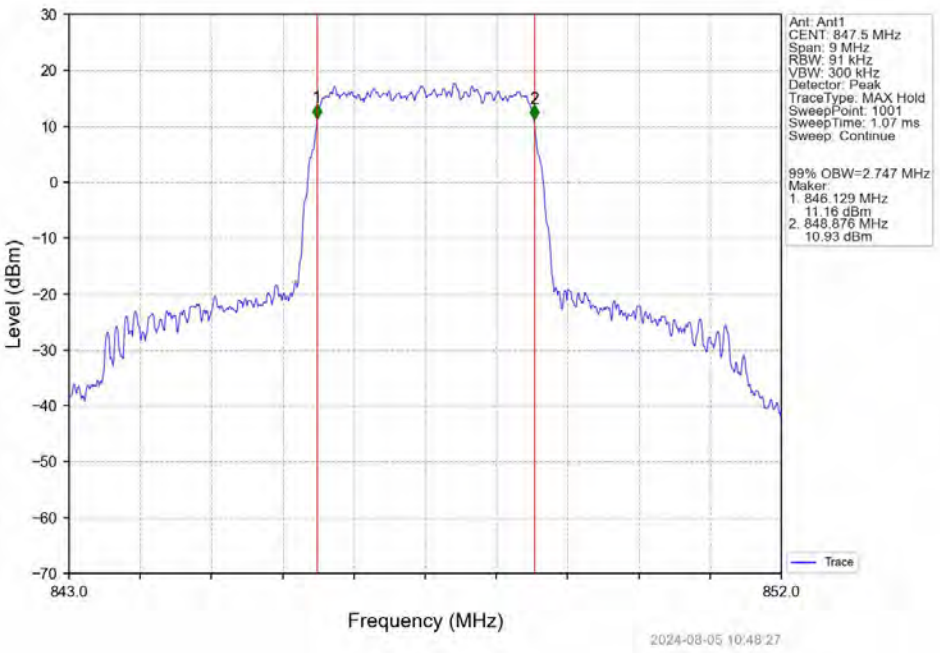
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



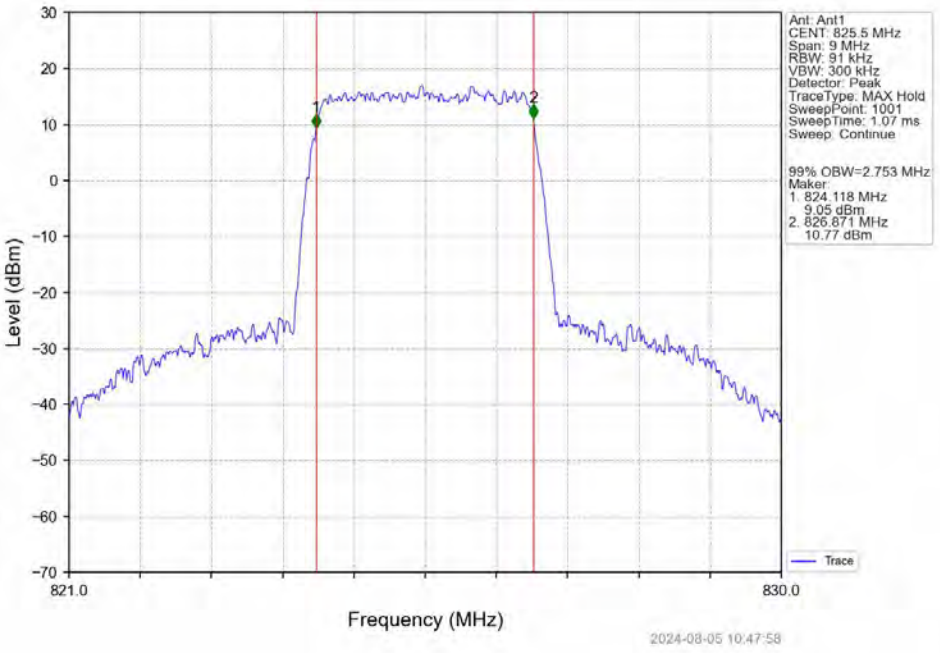
Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



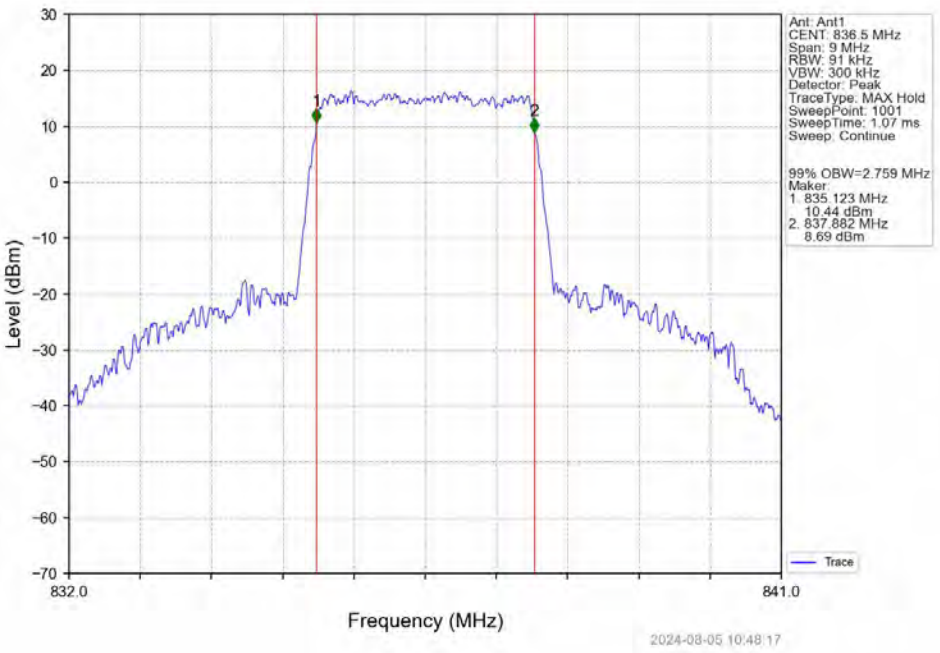
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



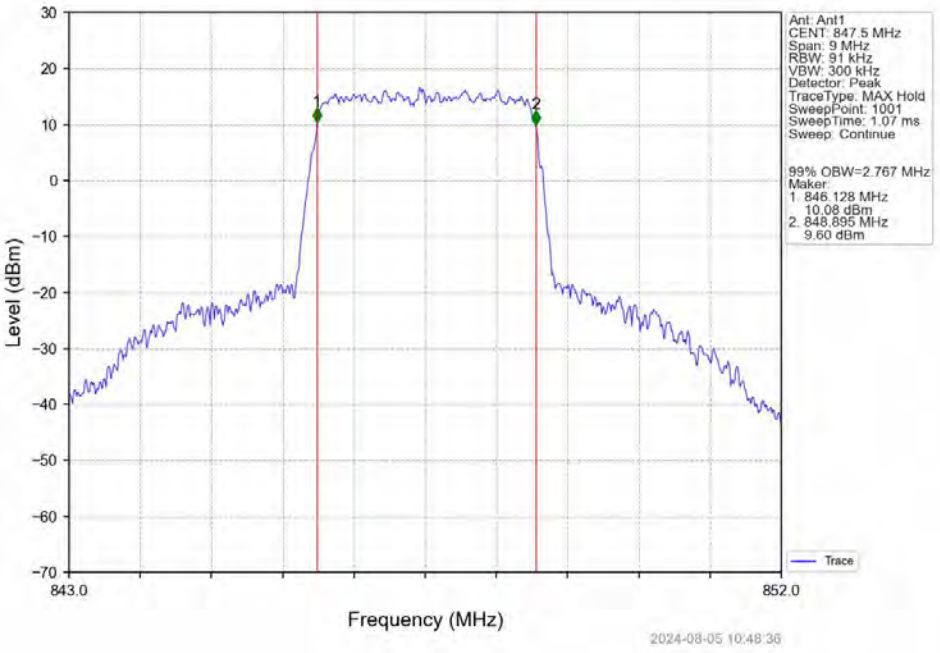
Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



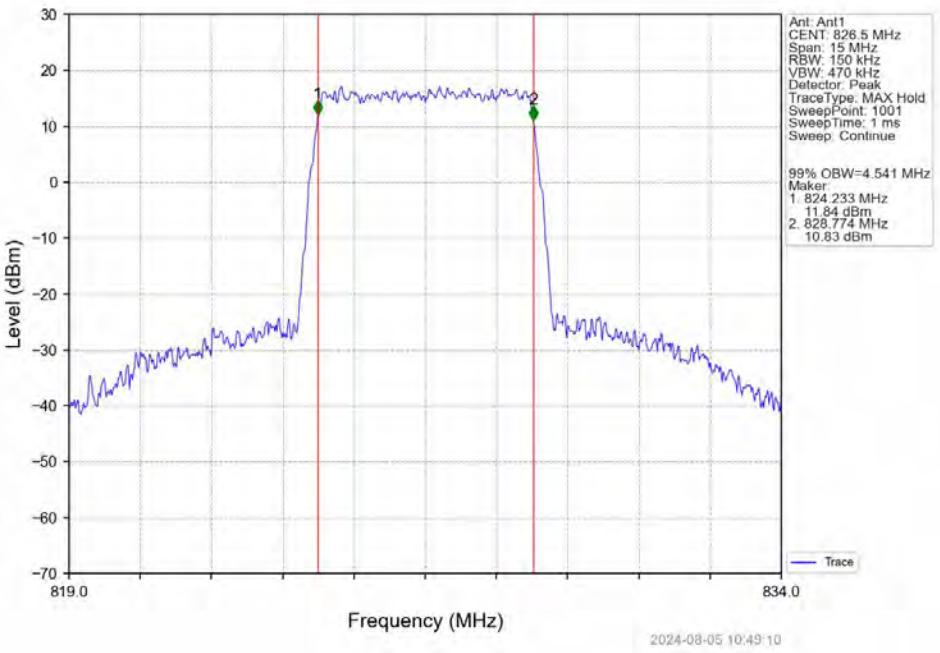
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



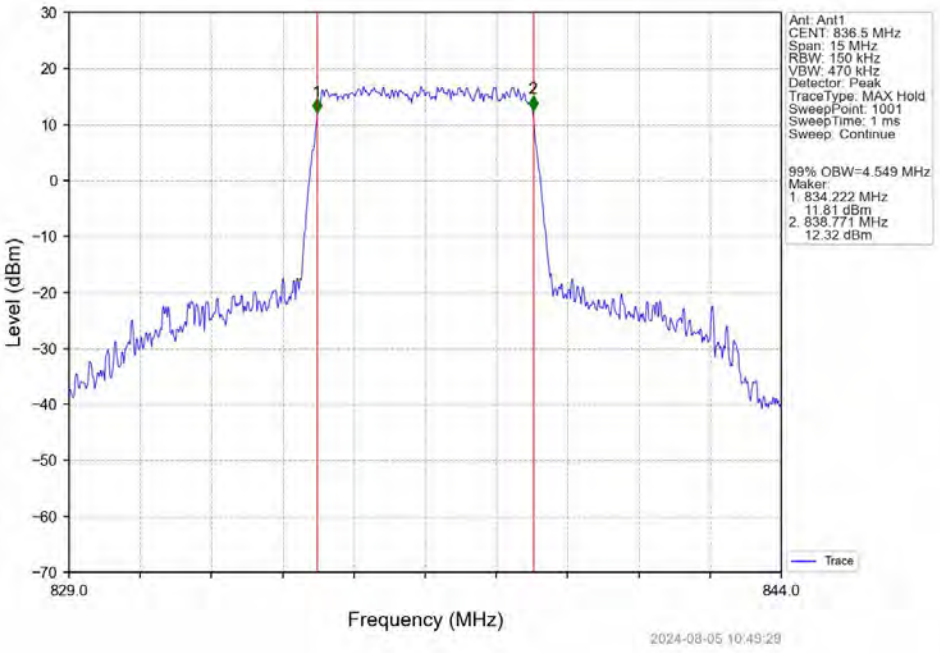
Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



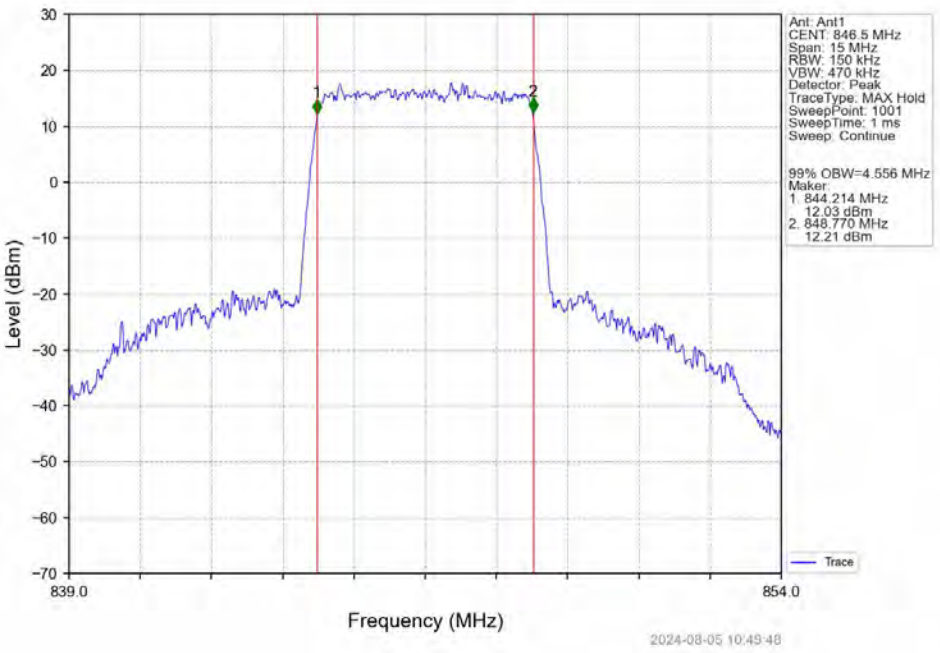
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



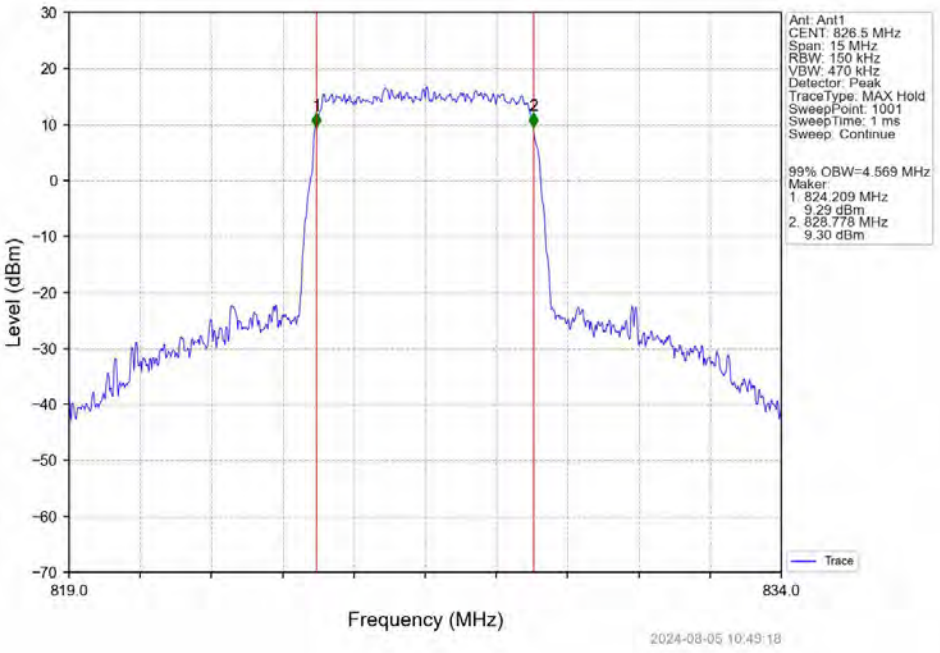
Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



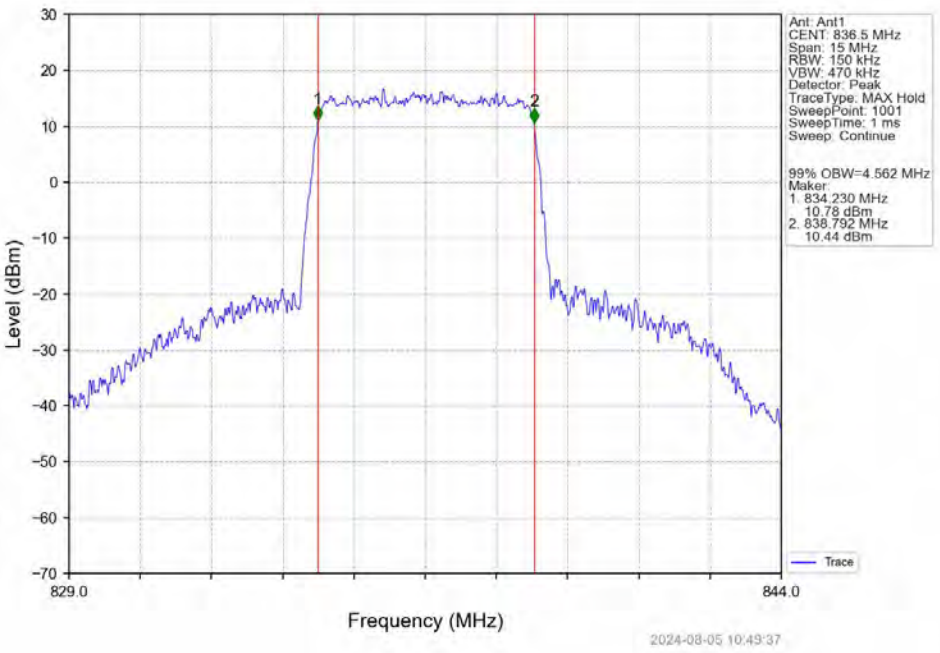
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



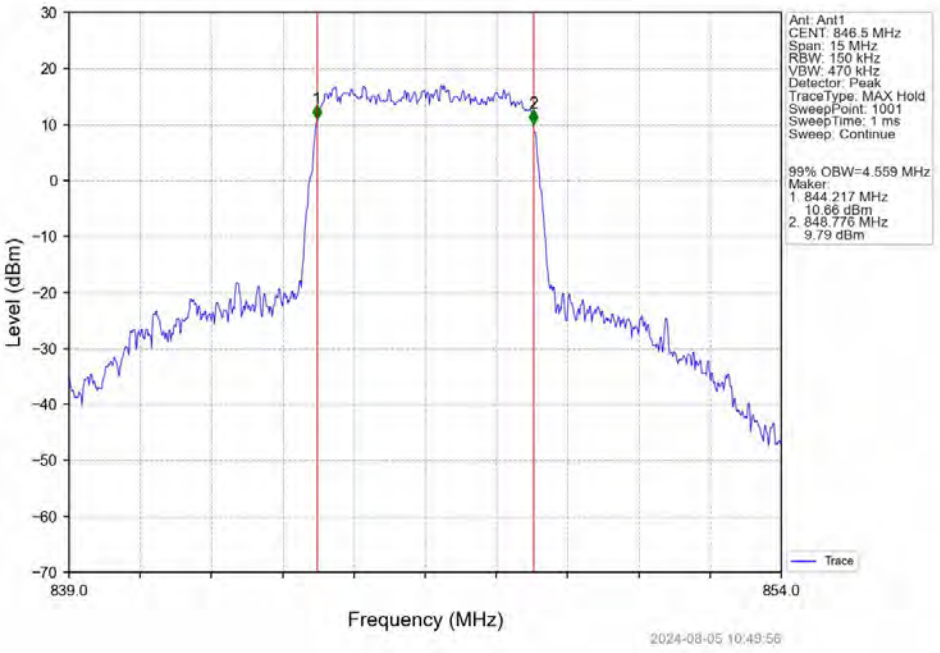
Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



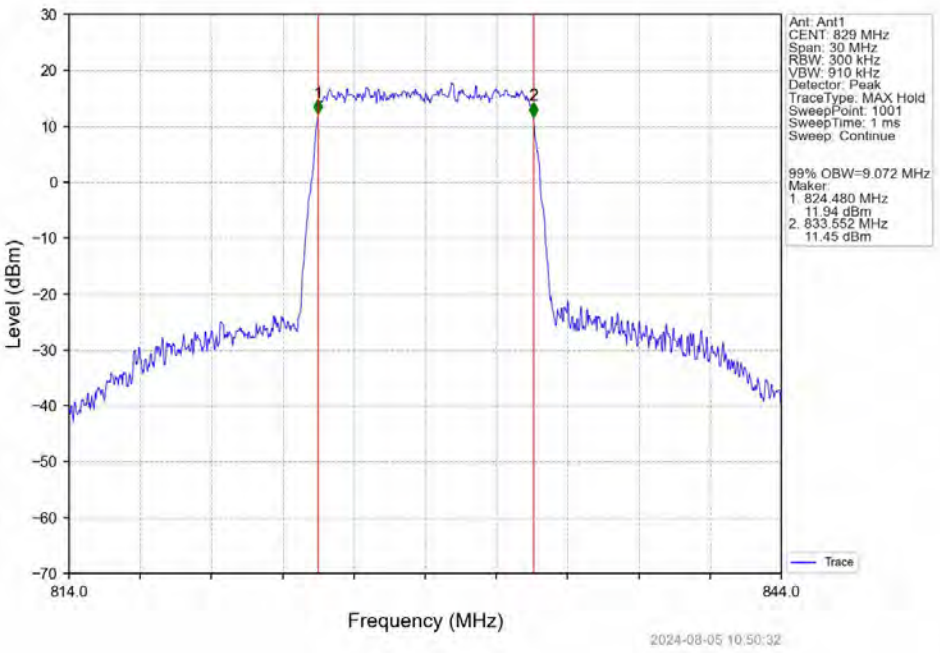
Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



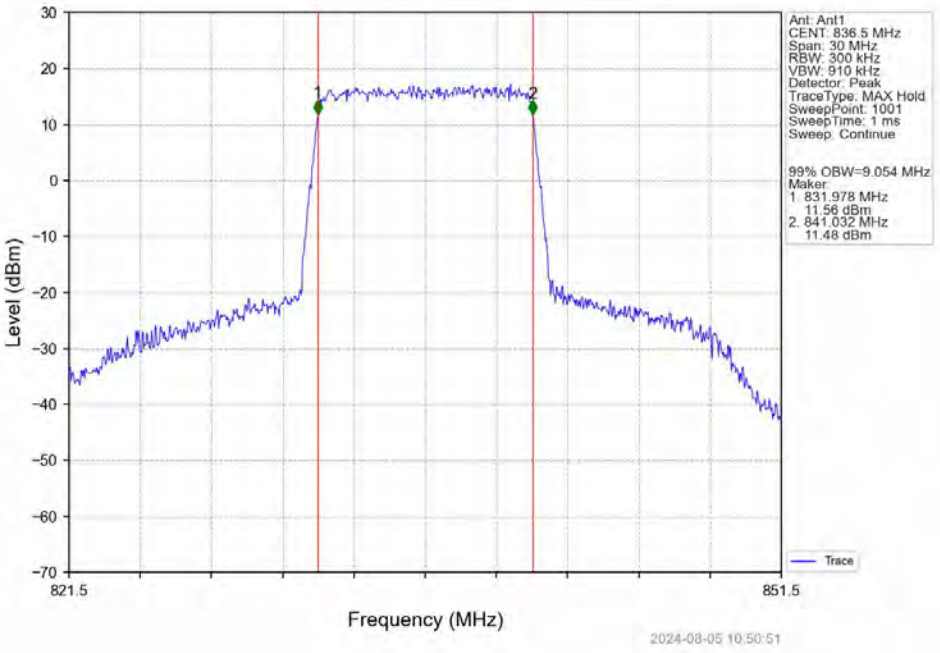
Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



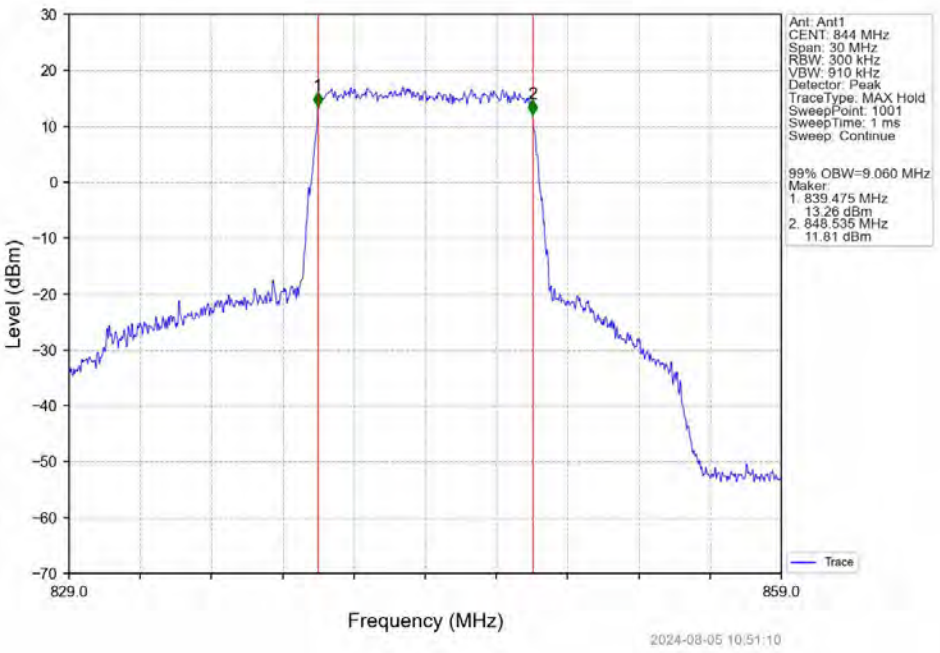
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



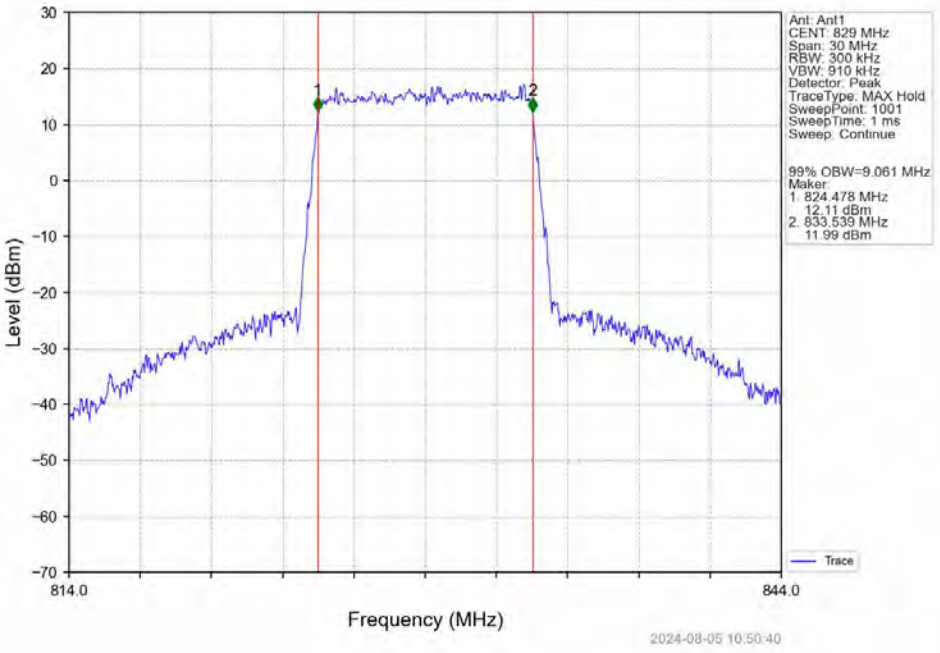
Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



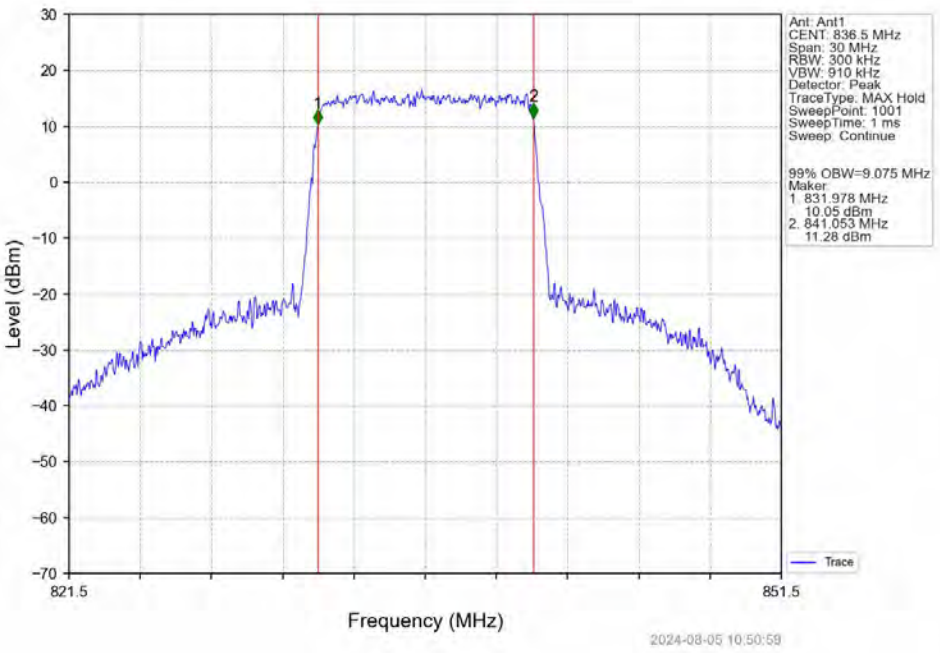
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



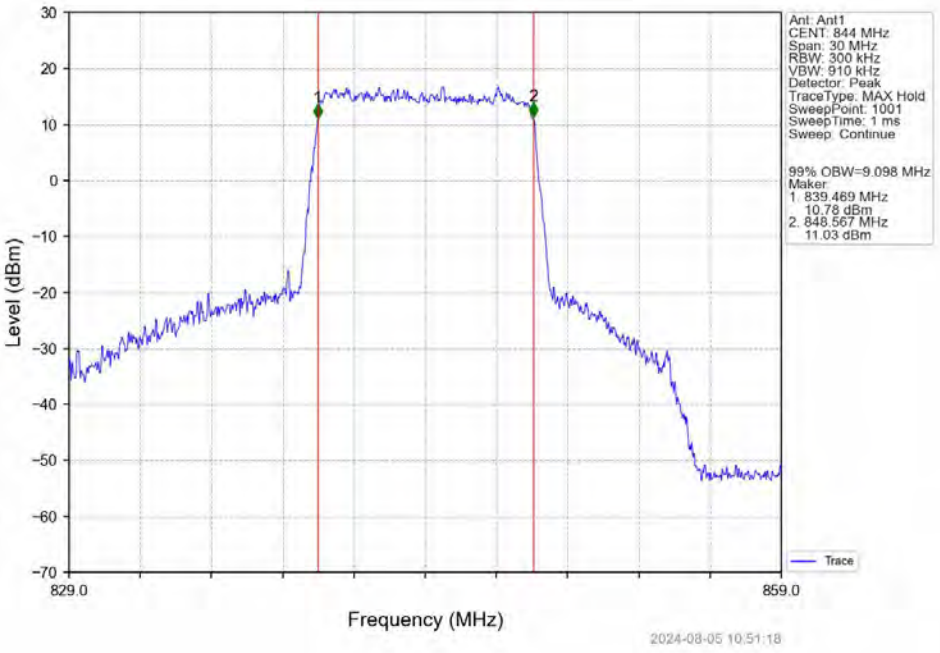
Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV

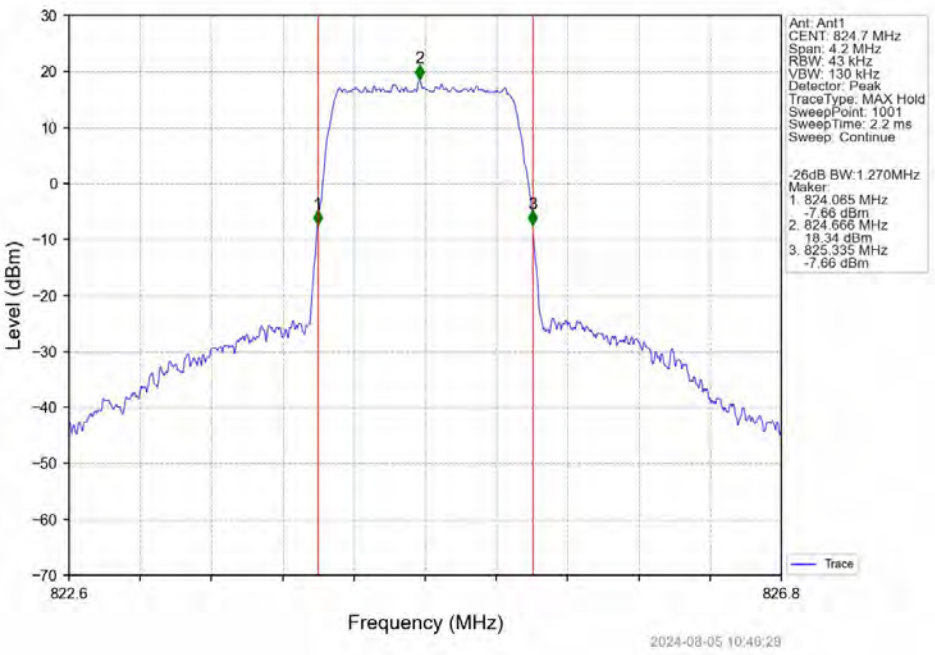


Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV

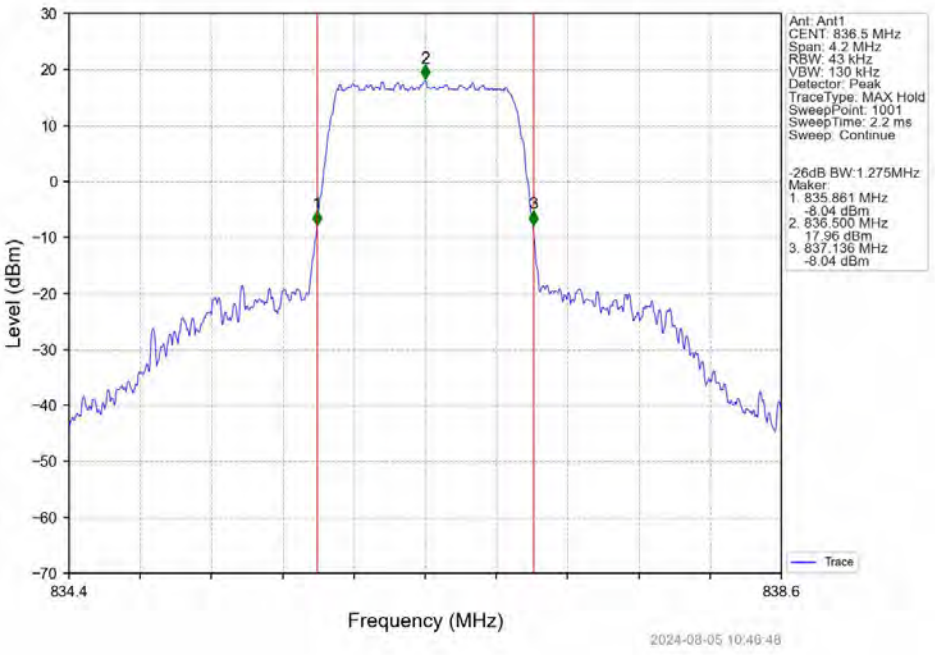


4.2.2 Band5_XDB

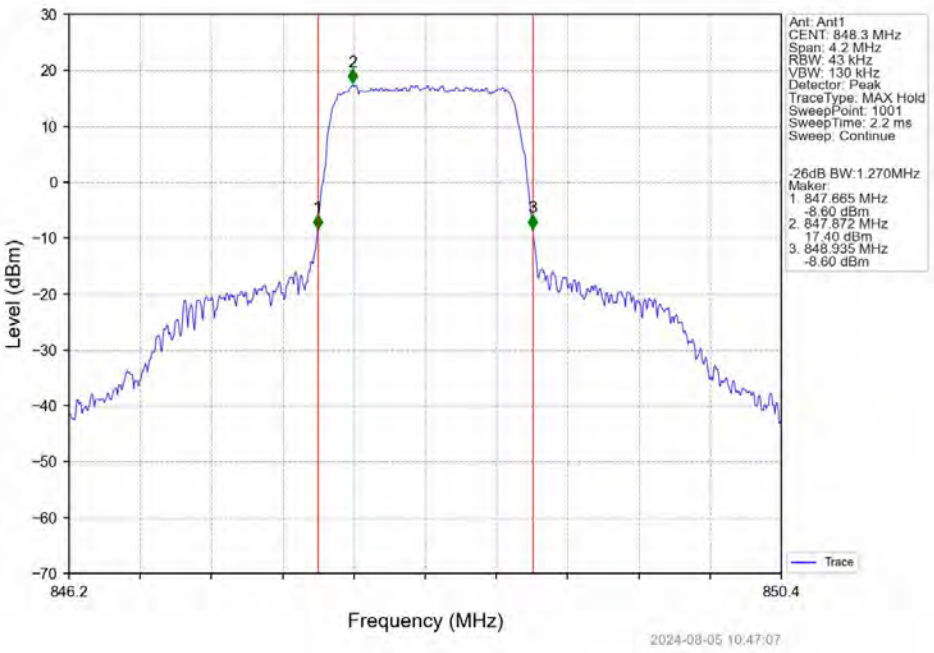
Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



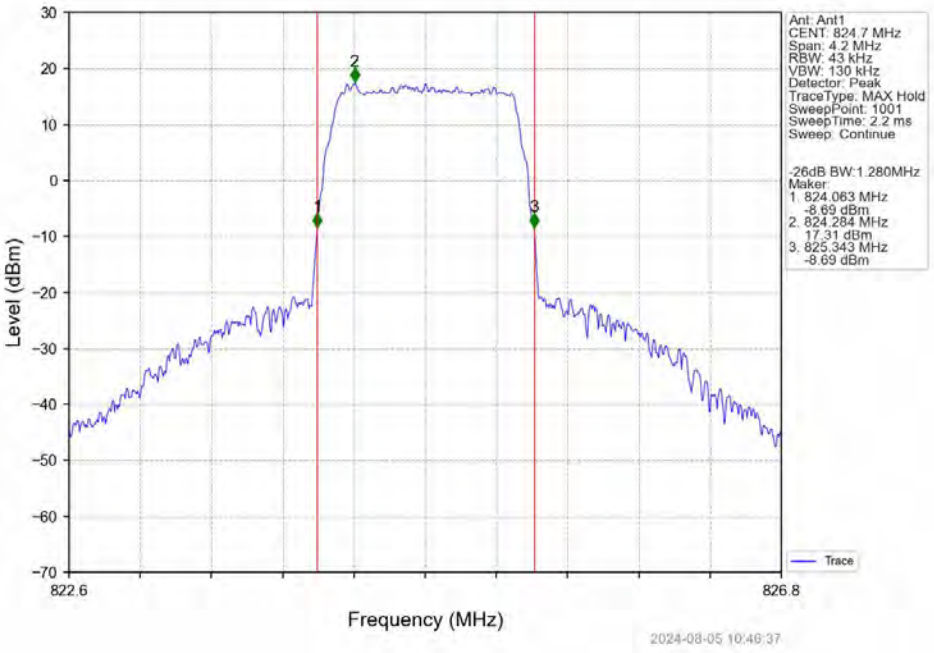
Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV



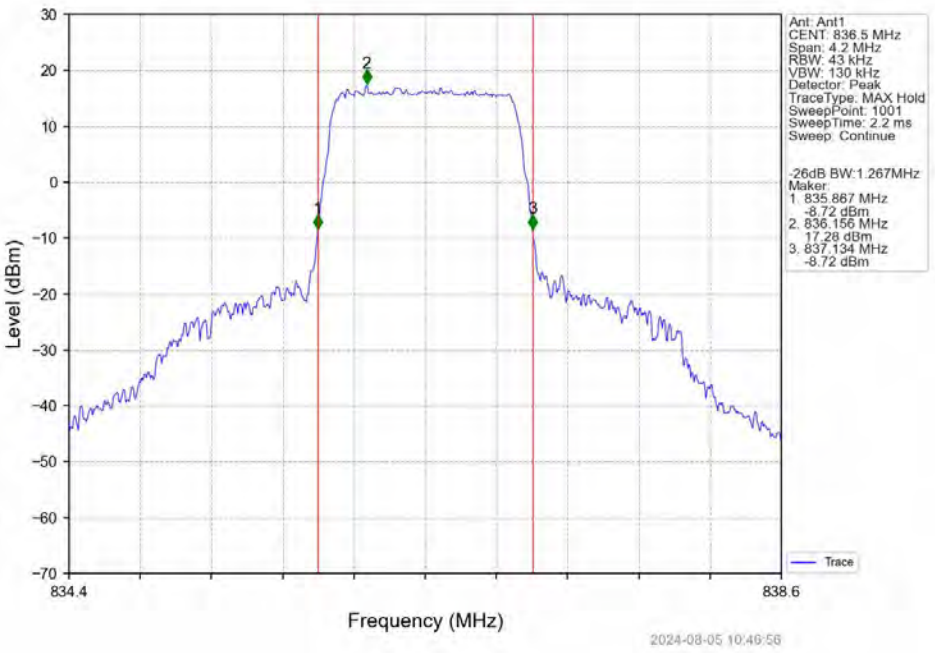
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



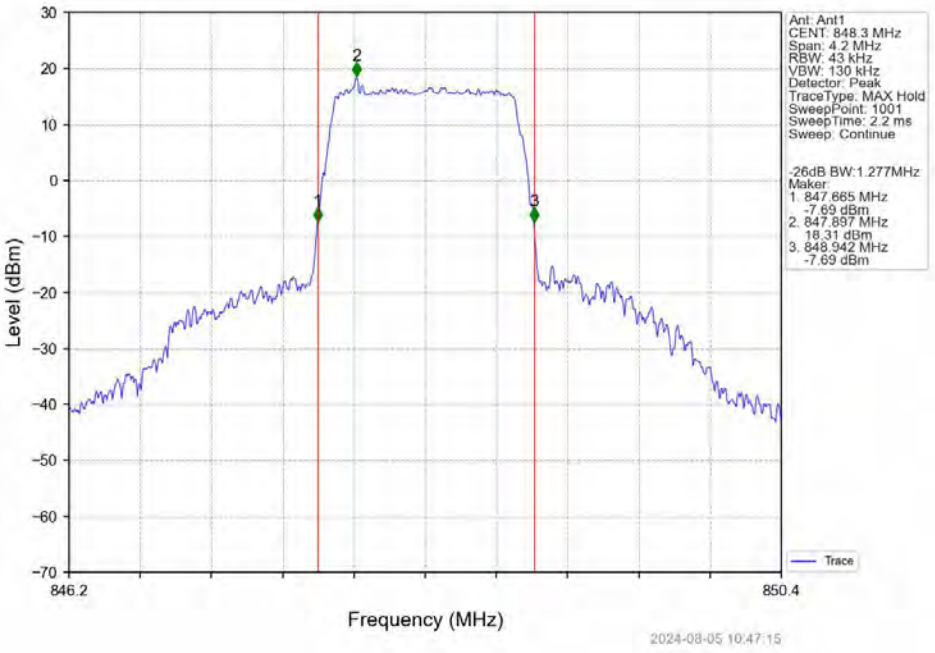
Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



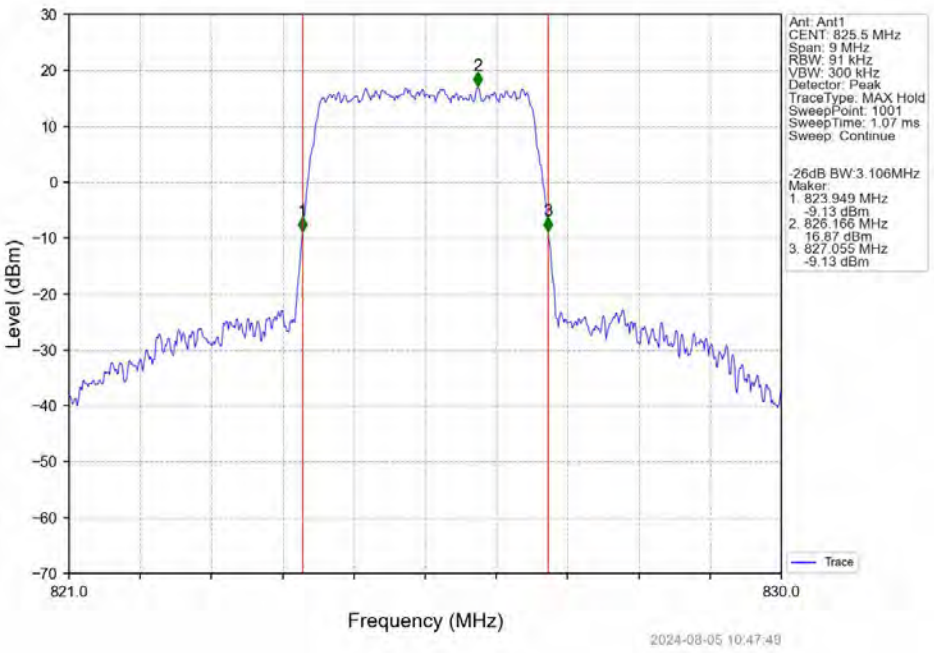
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



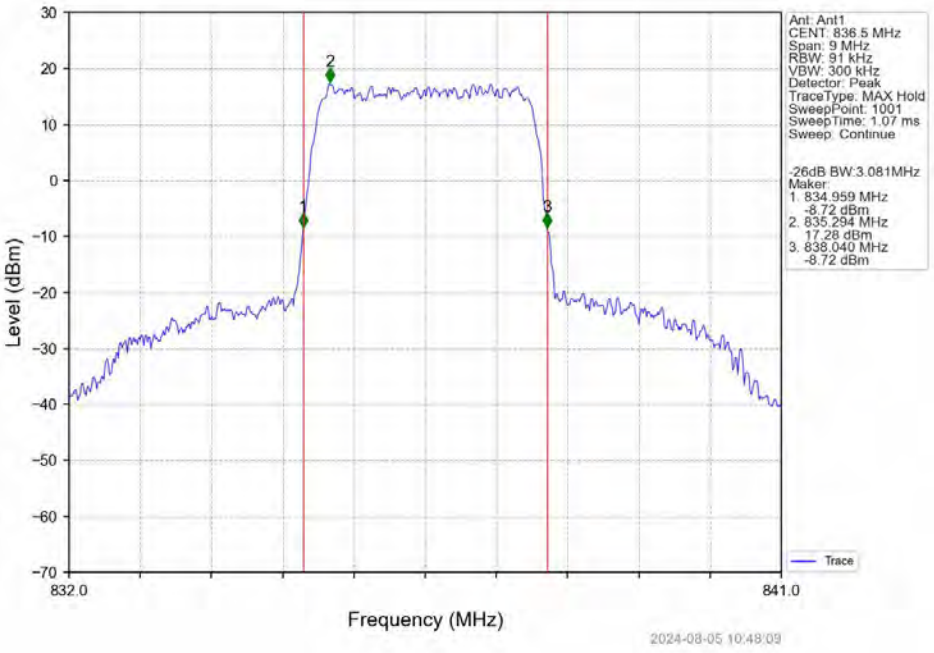
Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



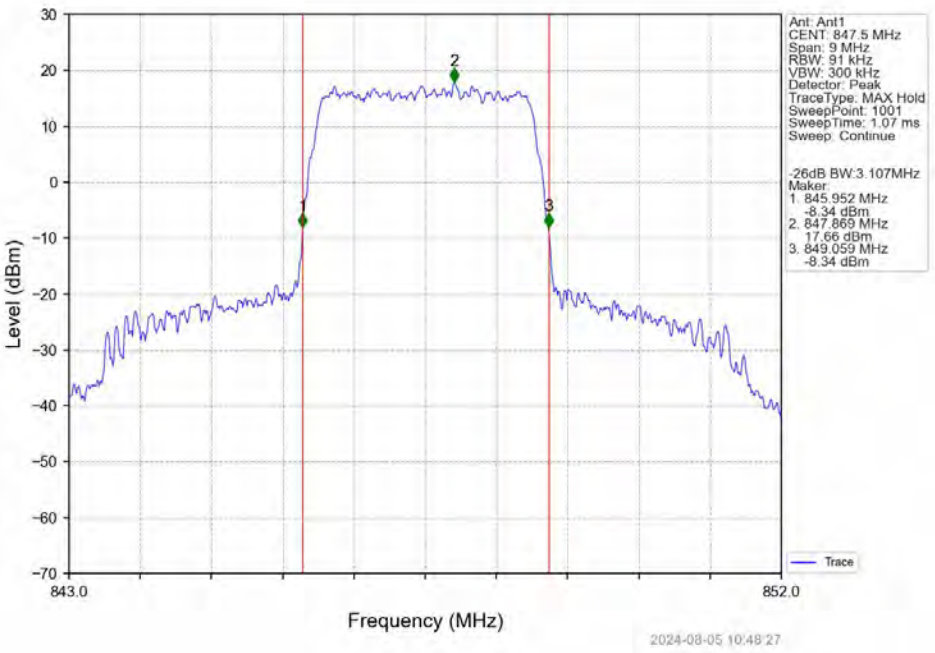
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



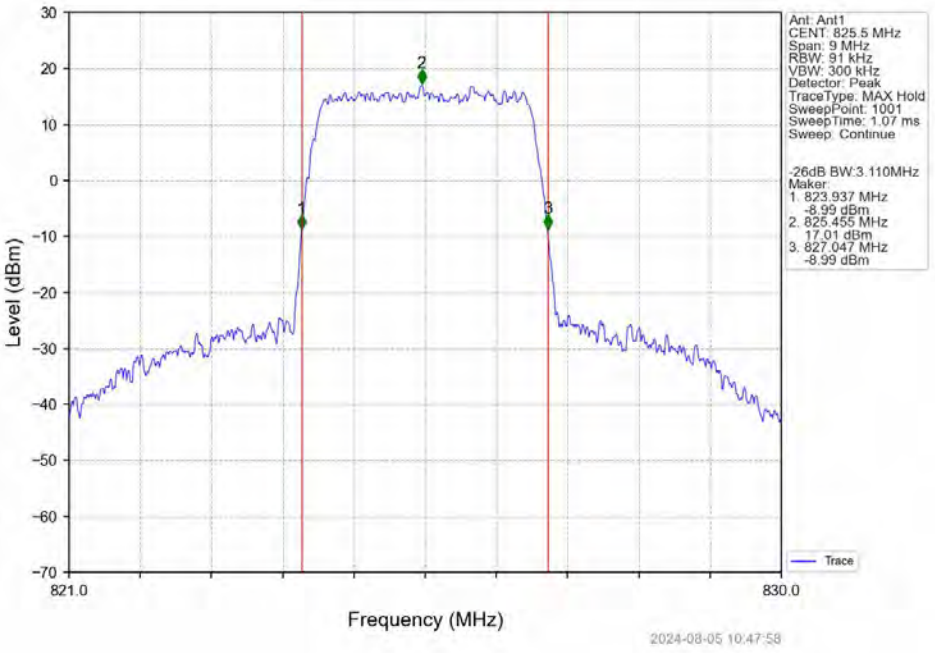
Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



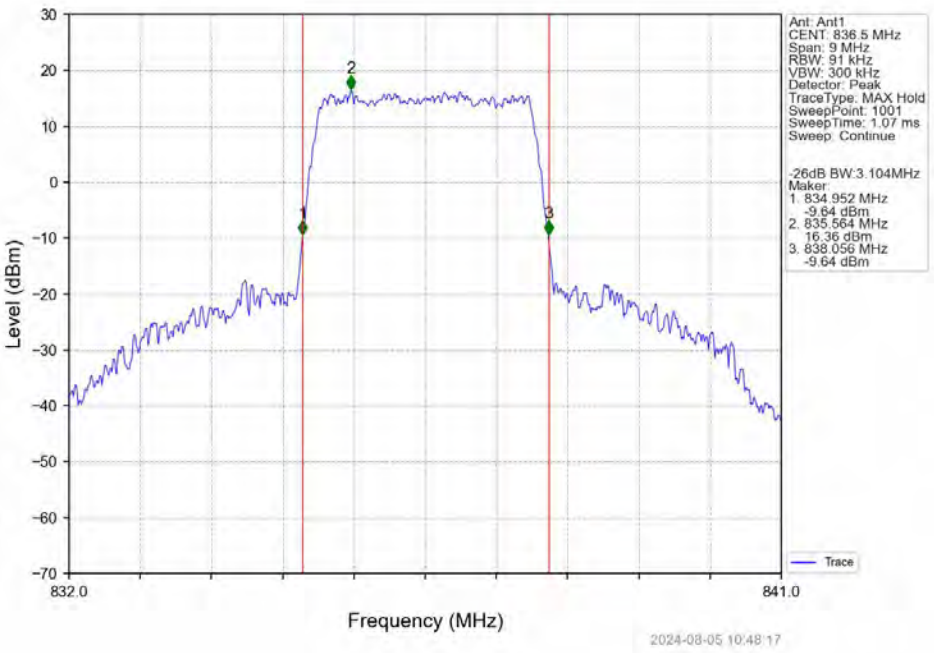
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



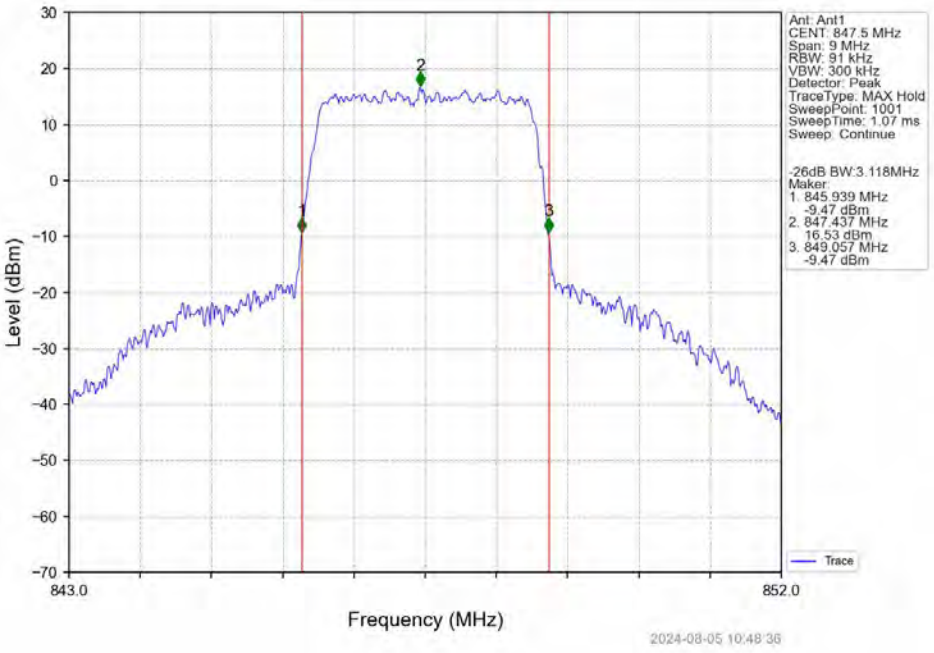
Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



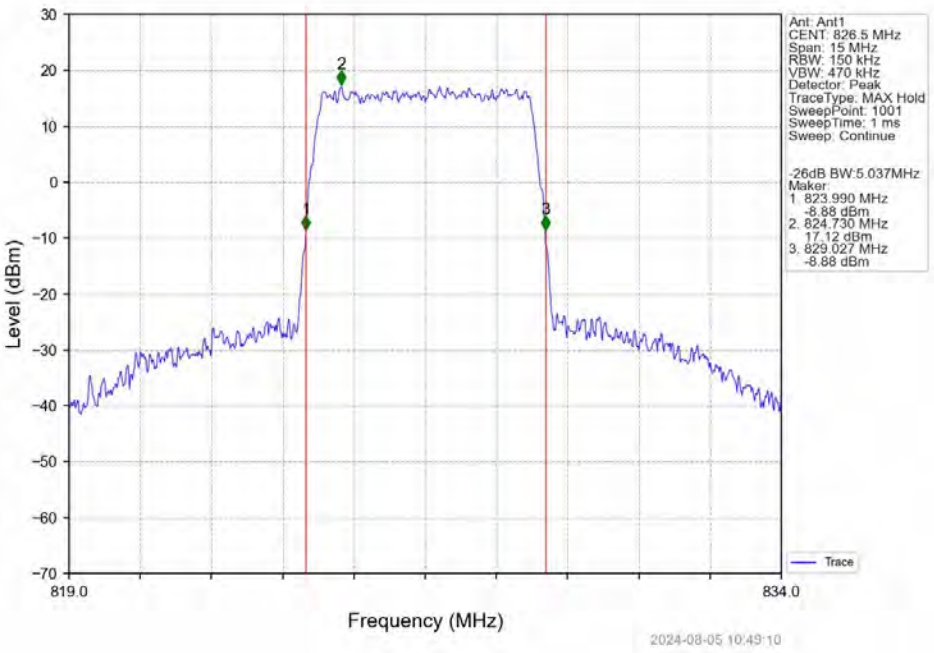
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



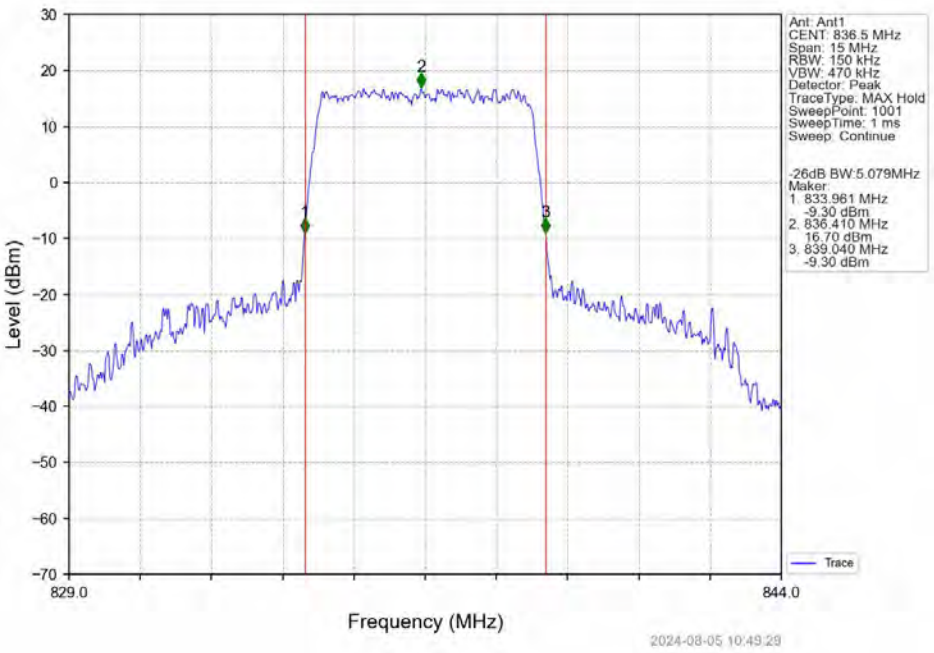
Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



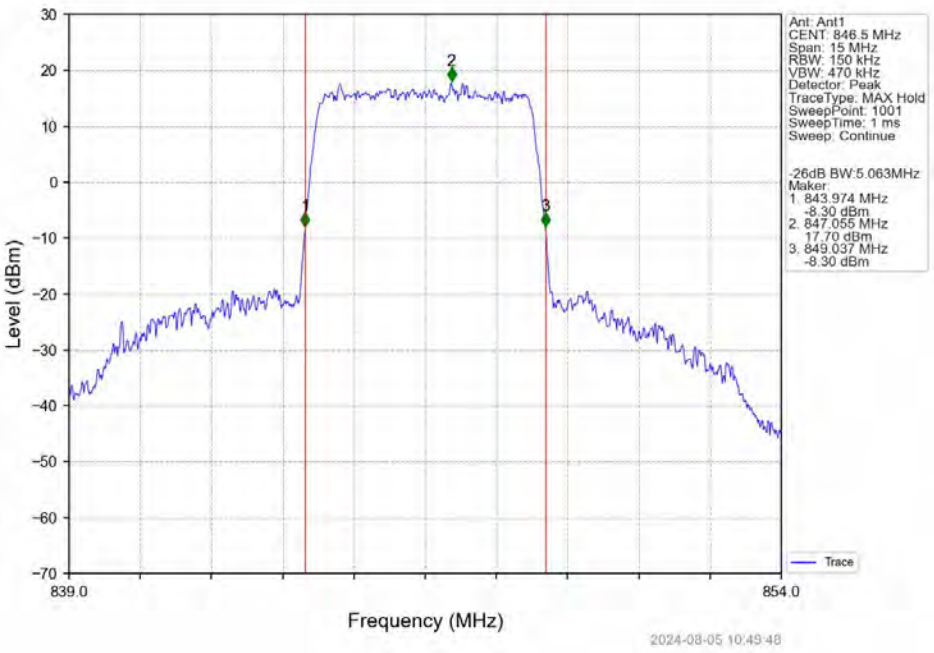
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



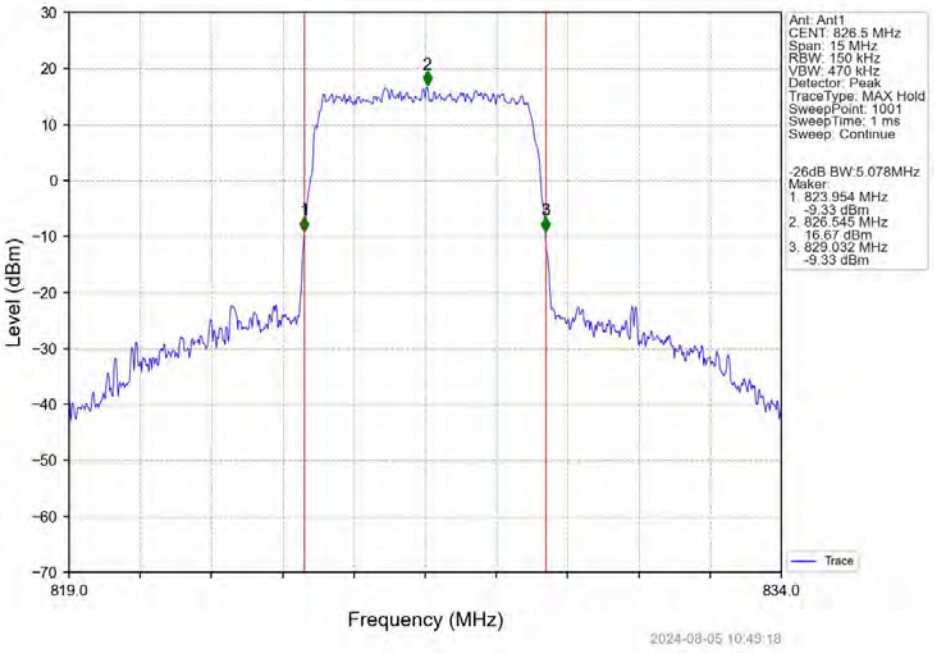
Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



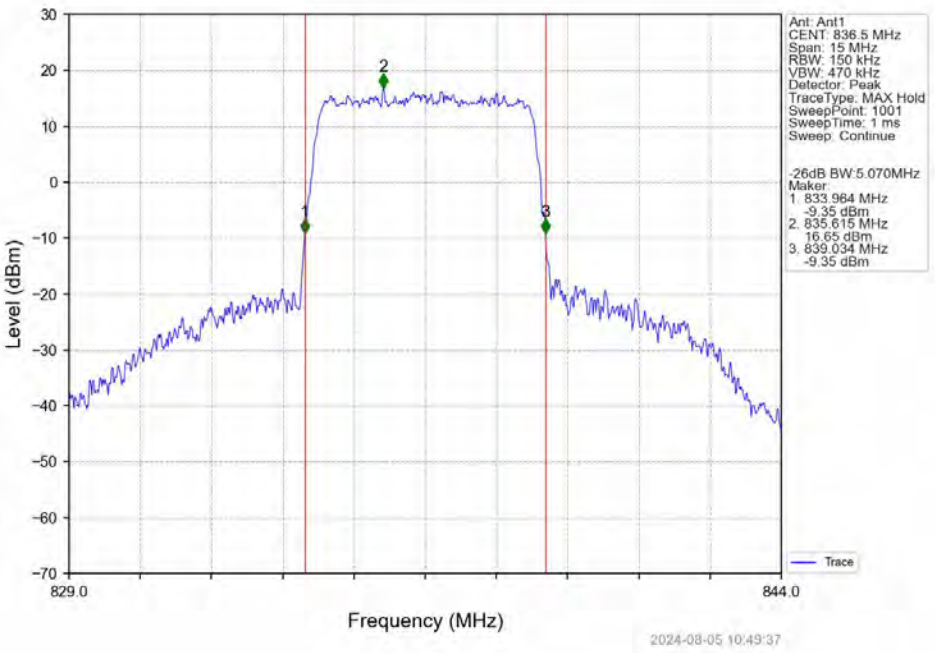
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



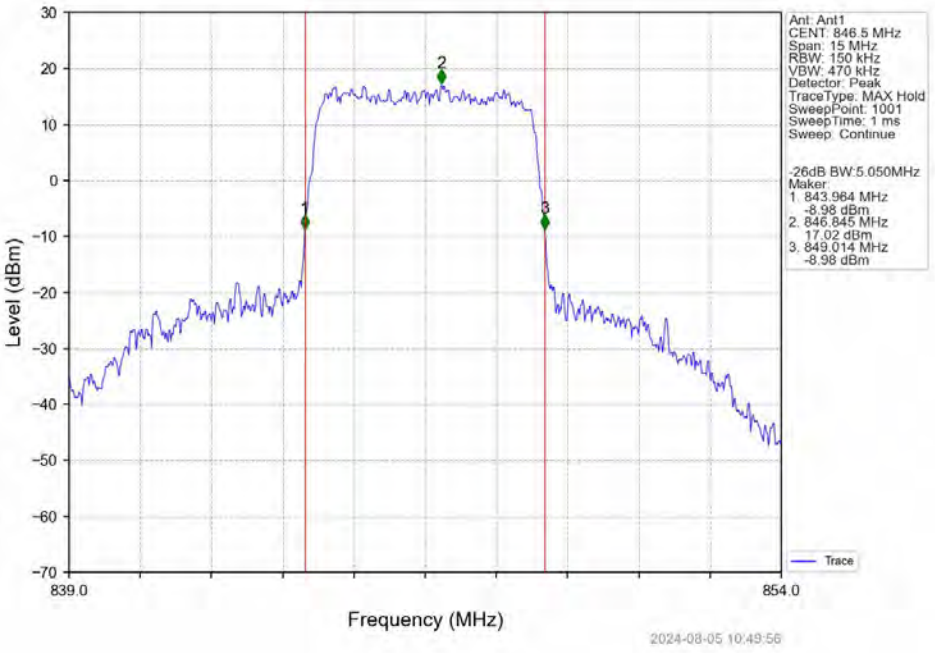
Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



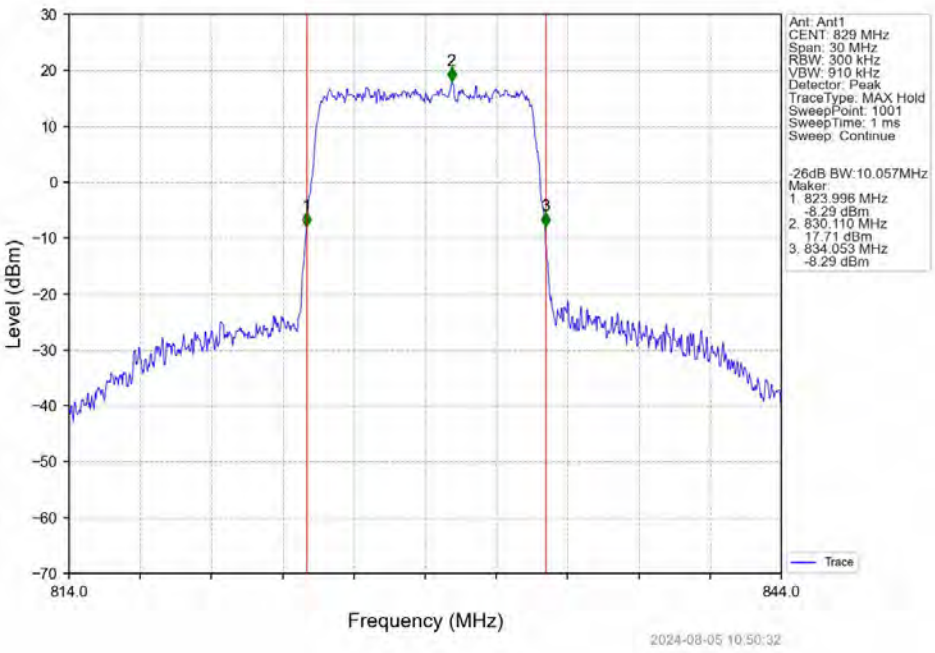
Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



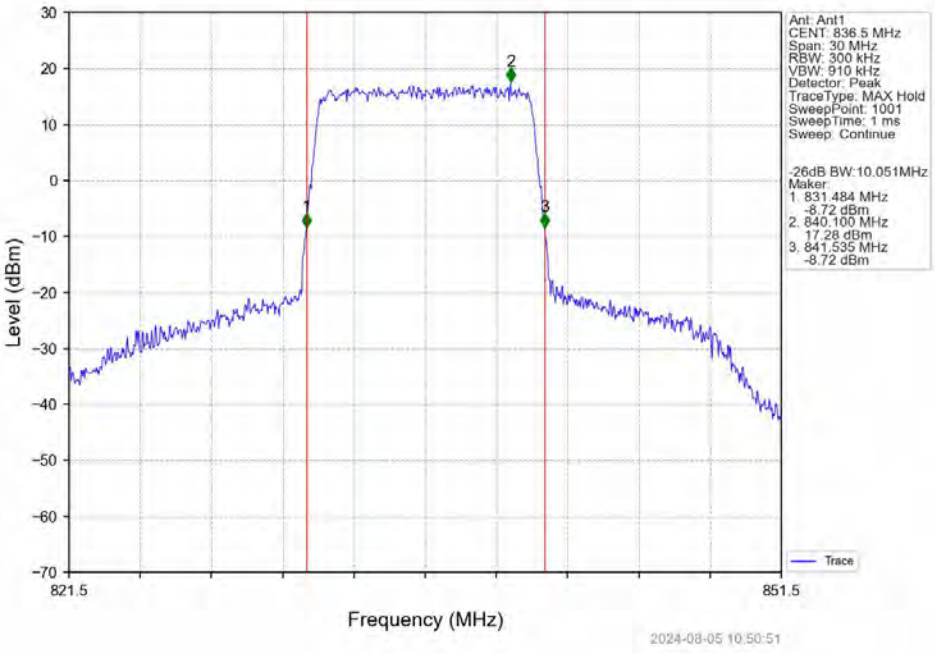
Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



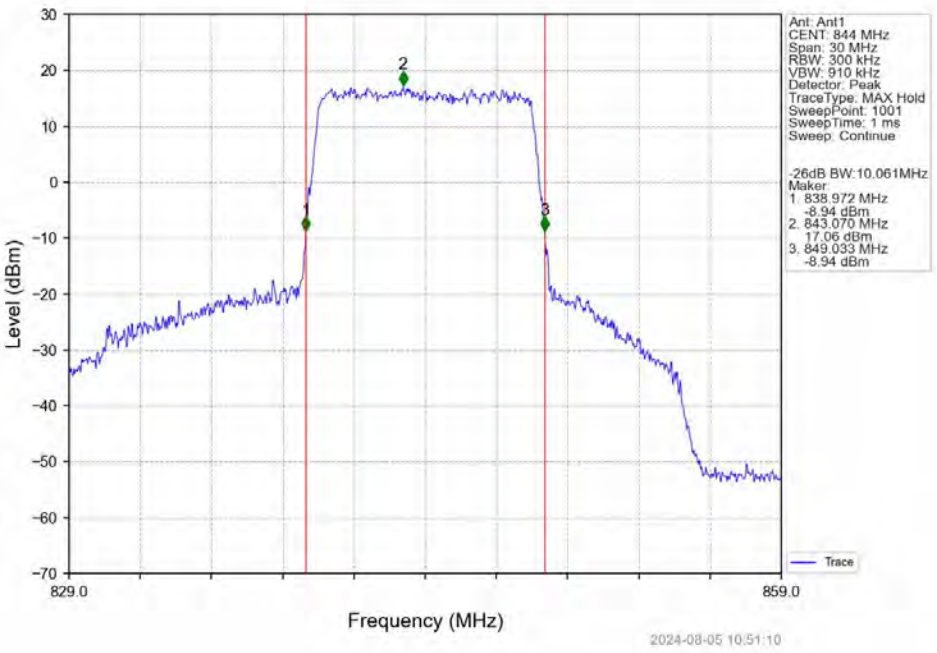
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



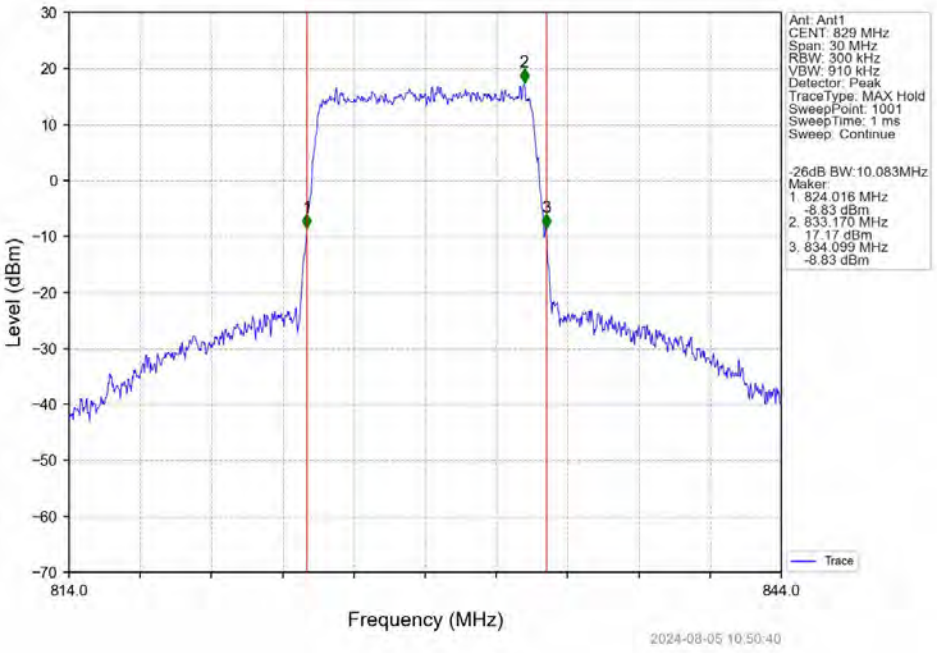
Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



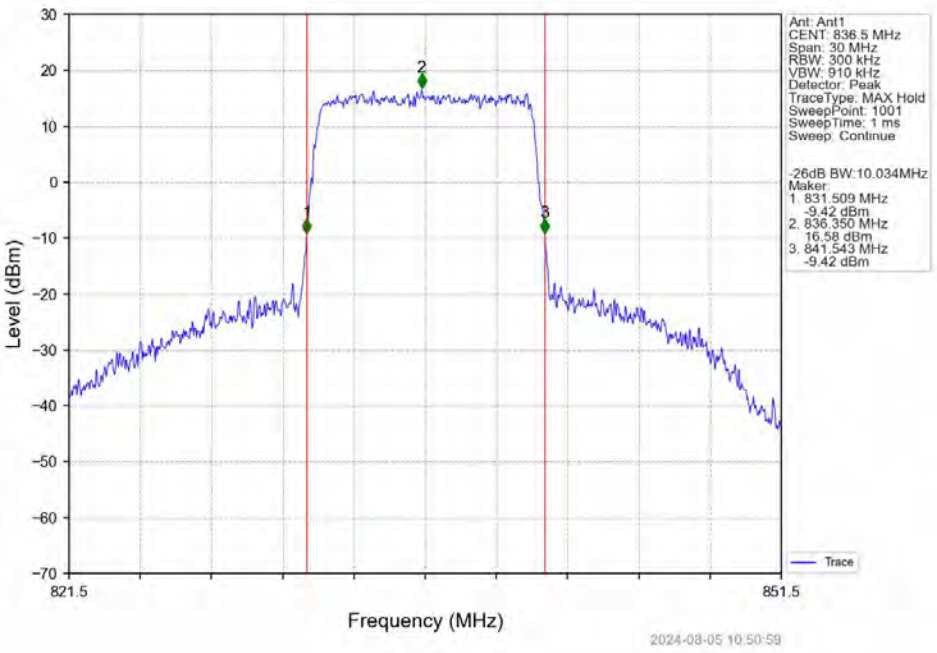
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



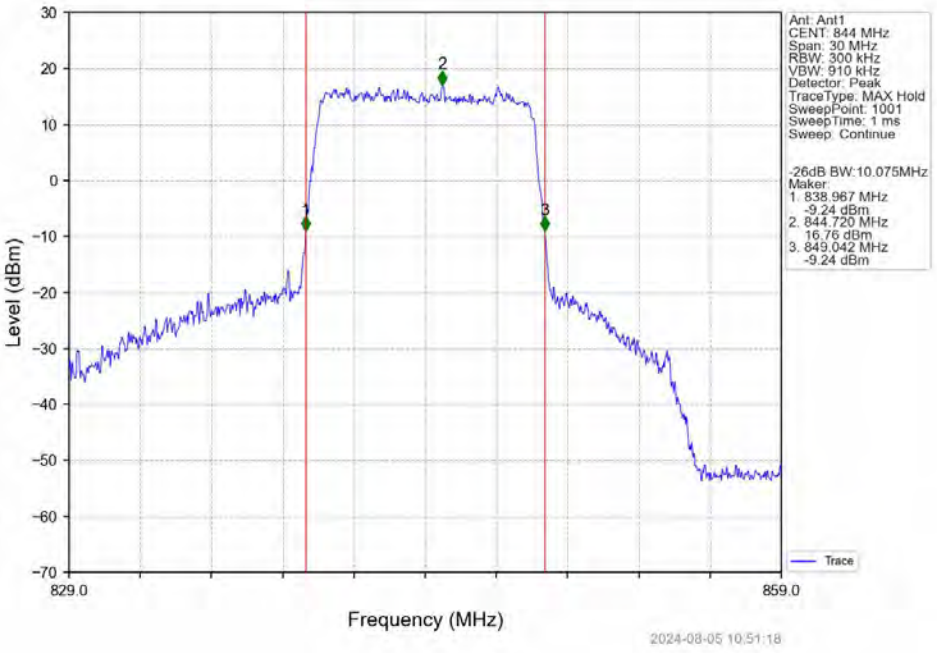
Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



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 Test Result

5.1.1 B5_1.4MHz

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	5.50	<=13	Pass
	836.5	6	0	5.33	<=13	Pass
	848.3	6	0	5.10	<=13	Pass
16QAM	824.7	6	0	6.16	<=13	Pass
	836.5	6	0	6.05	<=13	Pass
	848.3	6	0	5.70	<=13	Pass

5.1.2 B5_3MHz

Band: 5 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	825.5	15	0	5.45	<=13	Pass
	836.5	15	0	5.20	<=13	Pass
	847.5	15	0	5.18	<=13	Pass
16QAM	825.5	15	0	6.22	<=13	Pass
	836.5	15	0	6.01	<=13	Pass
	847.5	15	0	5.97	<=13	Pass

5.1.3 B5_5MHz

Band: 5 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	826.5	25	0	5.51	<=13	Pass
	836.5	25	0	5.37	<=13	Pass
	846.5	25	0	5.39	<=13	Pass
16QAM	826.5	25	0	6.25	<=13	Pass
	836.5	25	0	6.06	<=13	Pass
	846.5	25	0	6.03	<=13	Pass

5.1.4 B5_10MHz

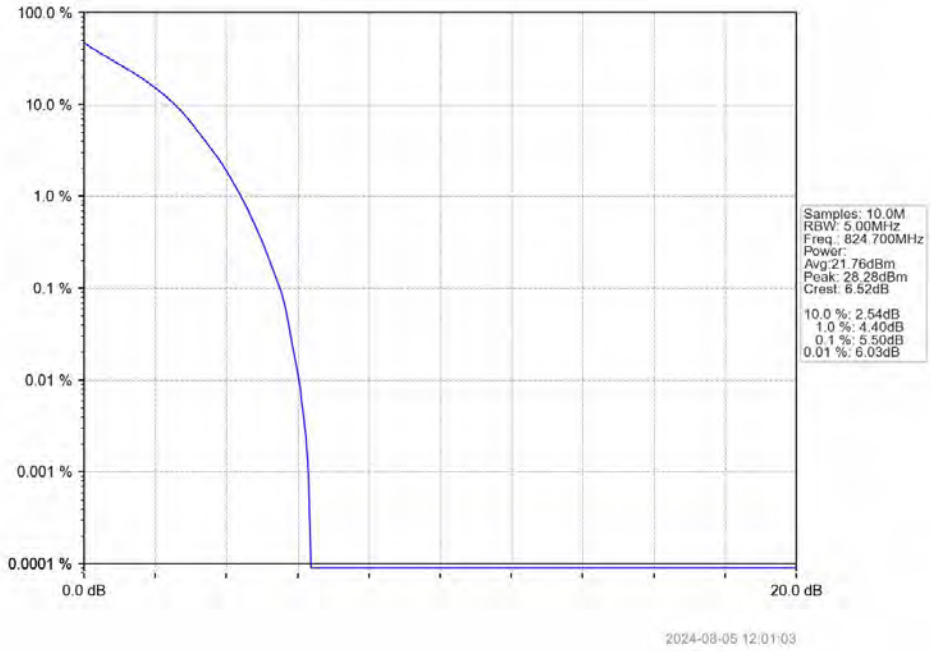
Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	829	50	0	5.54	<=13	Pass
	836.5	50	0	5.41	<=13	Pass
	844	50	0	5.42	<=13	Pass
16QAM	829	50	0	6.25	<=13	Pass
	836.5	50	0	6.16	<=13	Pass

	844	50	0	6.11	<=13	Pass

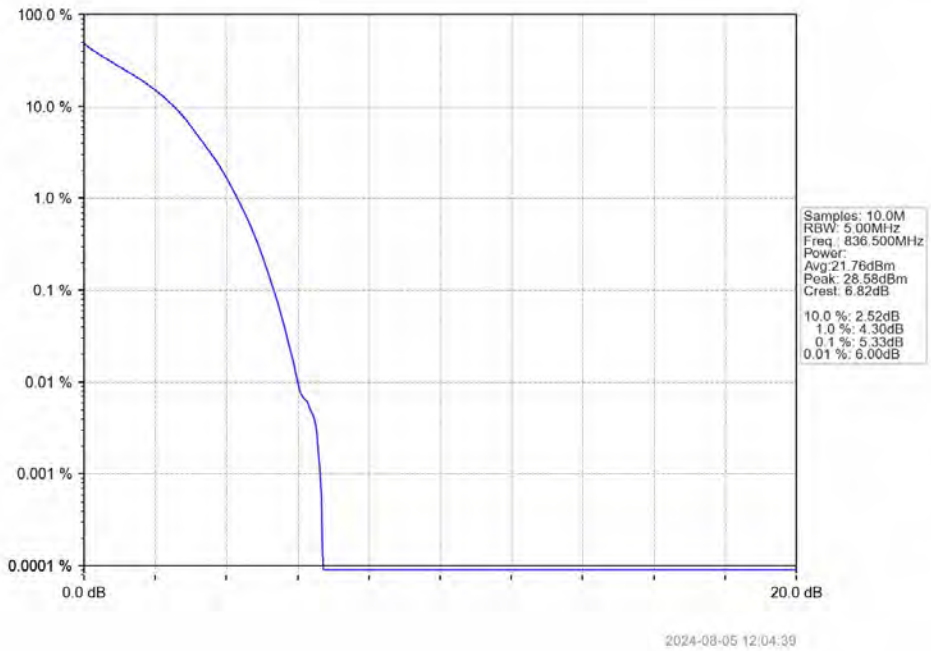
5.2 Test Graph

5.2.1 B5_1.4MHz

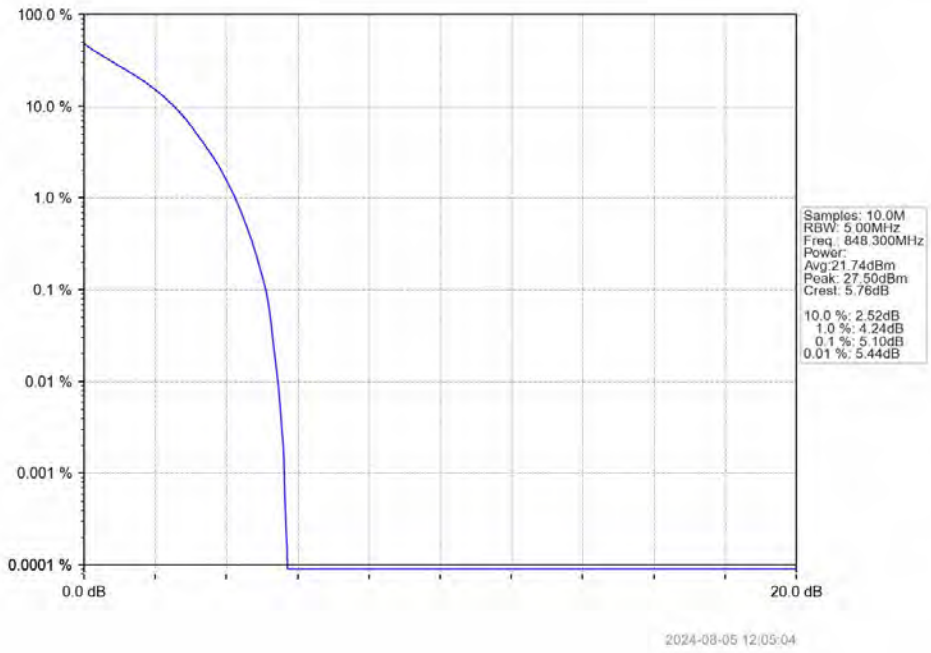
Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



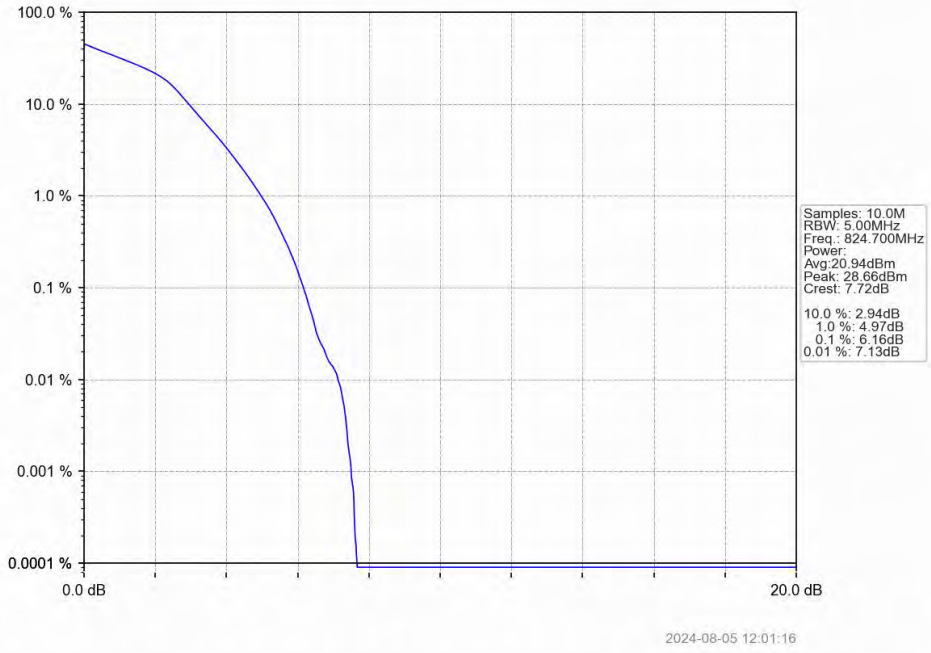
Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV



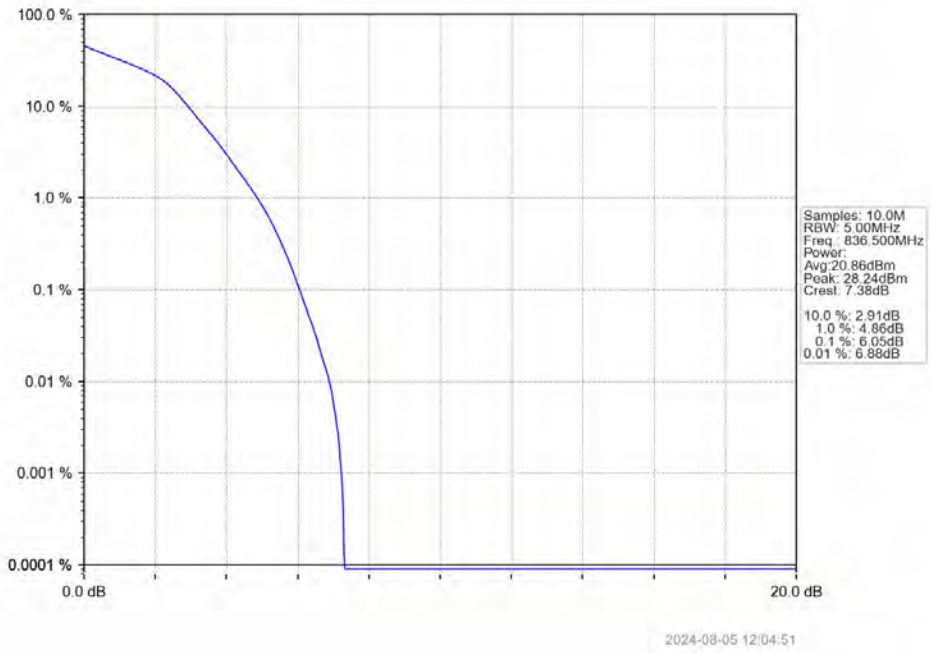
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



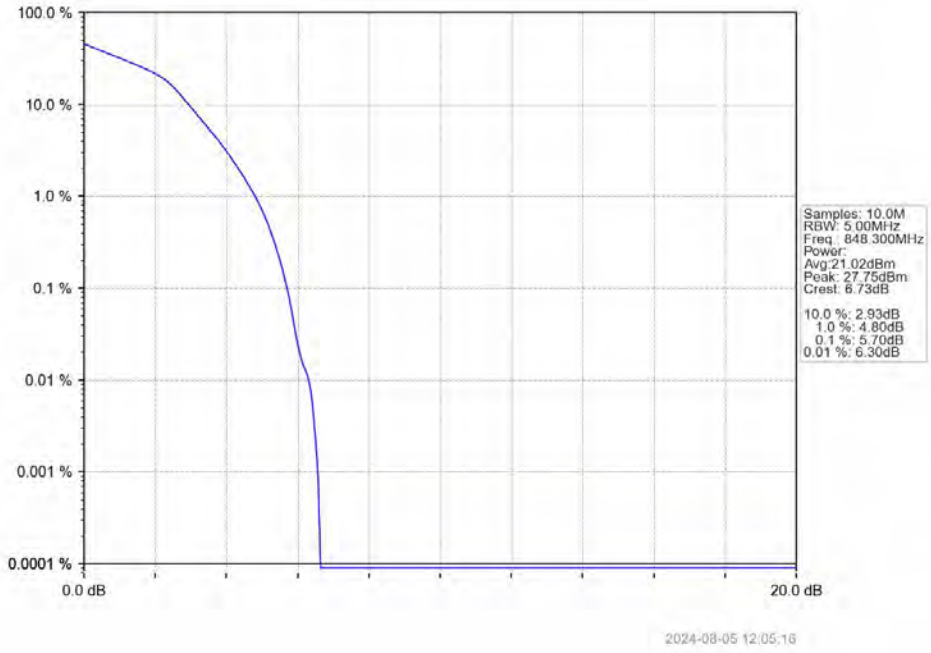
Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV

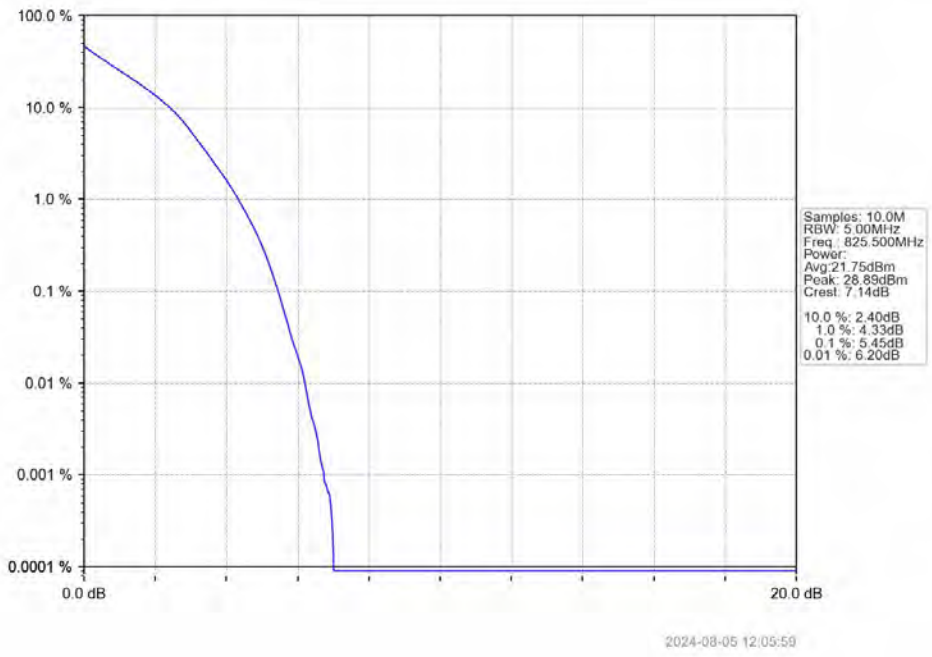


Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV

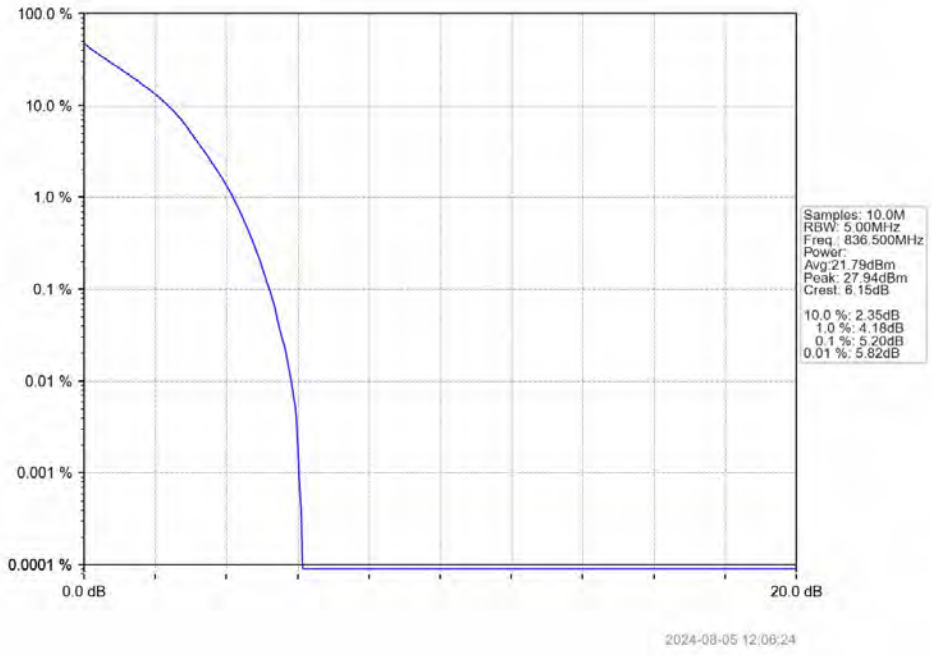


5.2.2 B5_3MHz

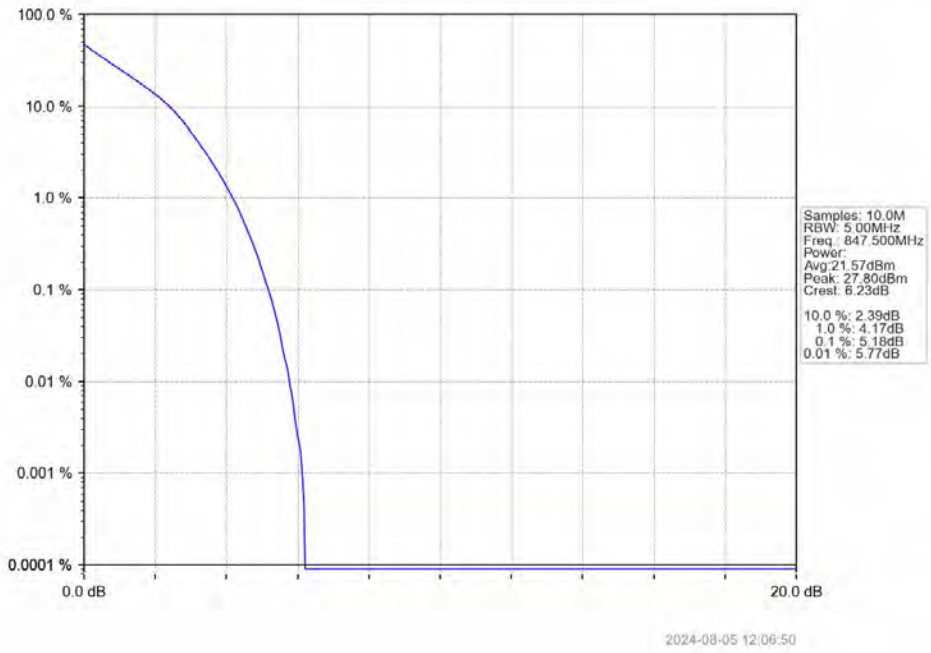
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



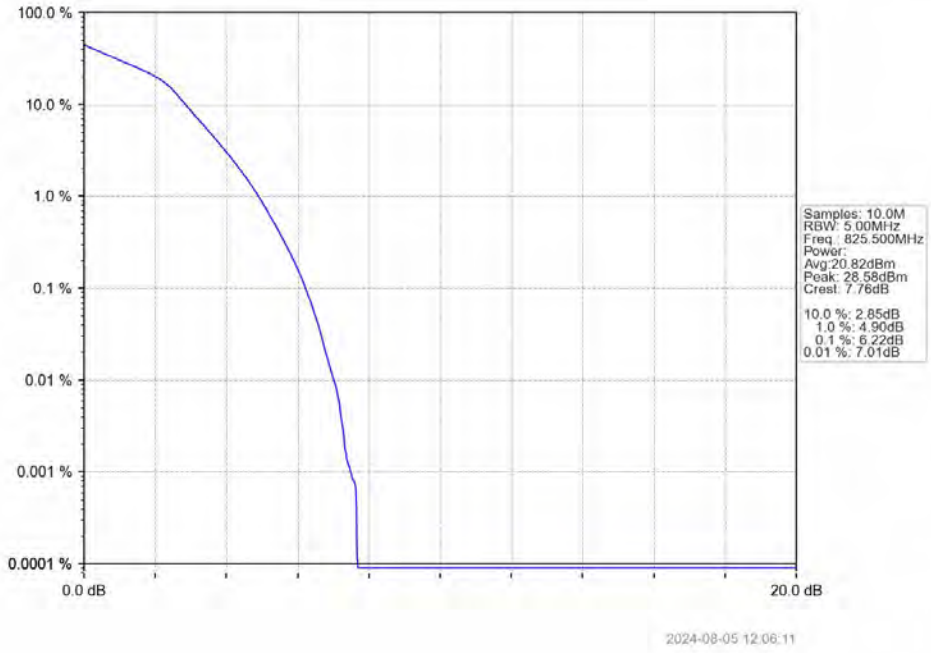
Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



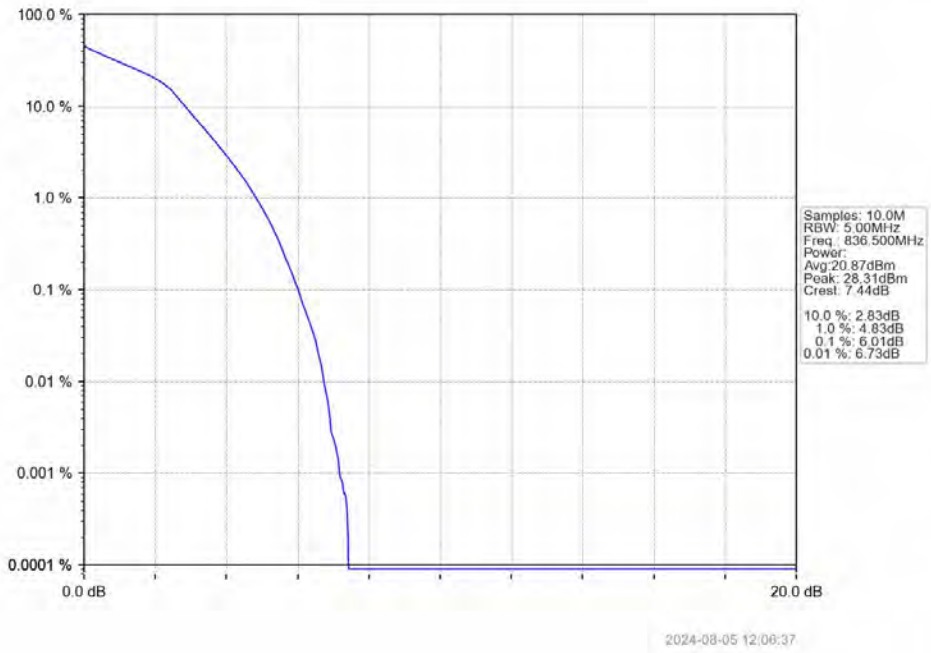
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



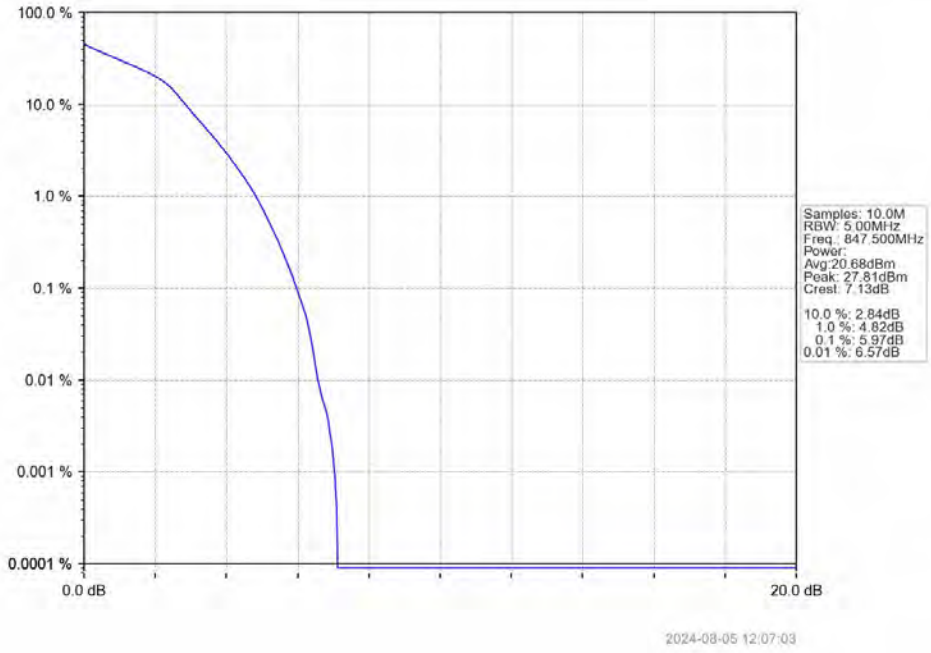
Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV

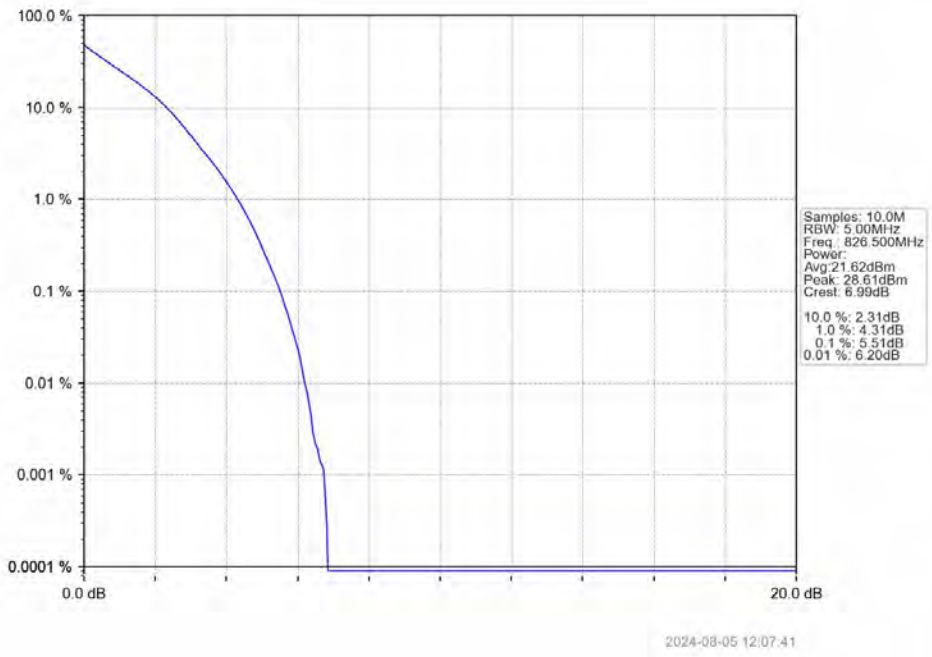


Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV

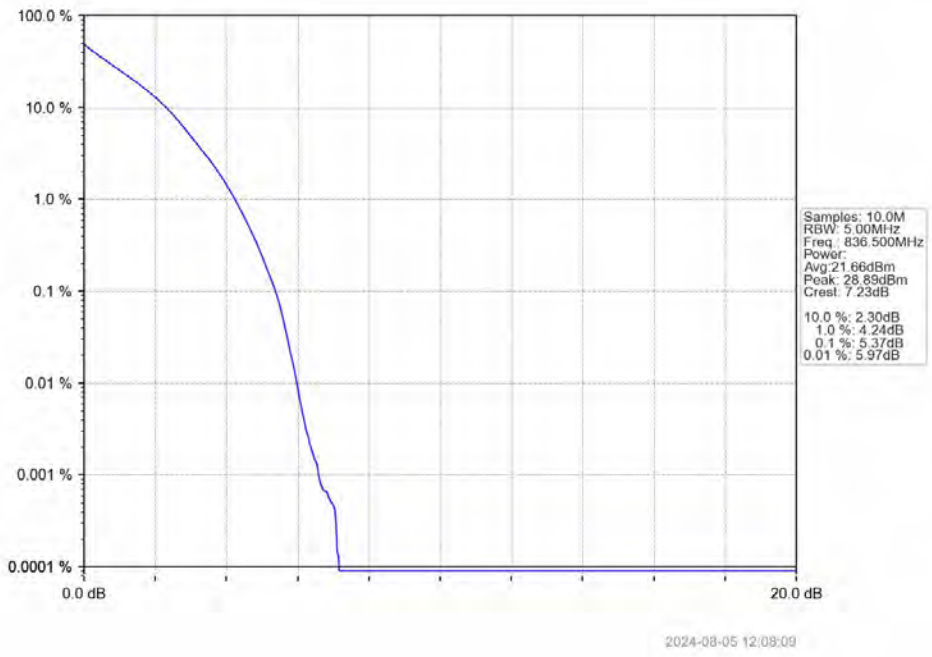


5.2.3 B5_5MHz

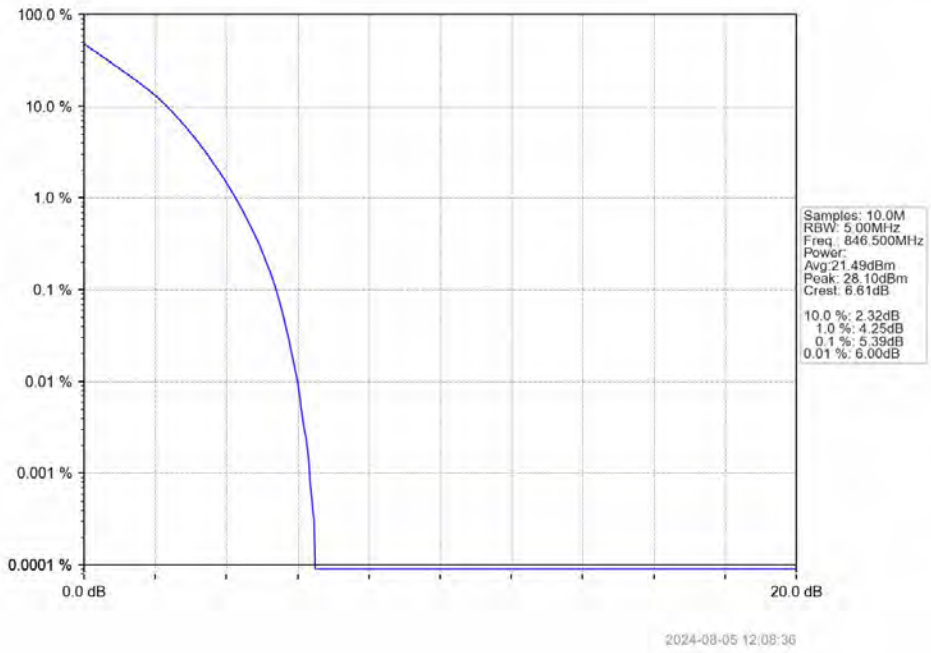
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



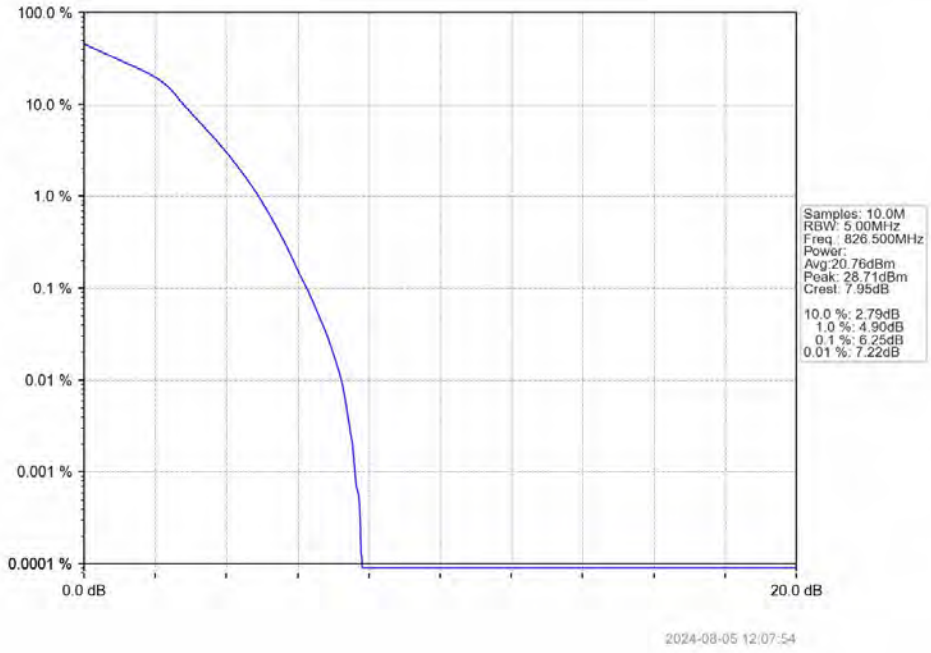
Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



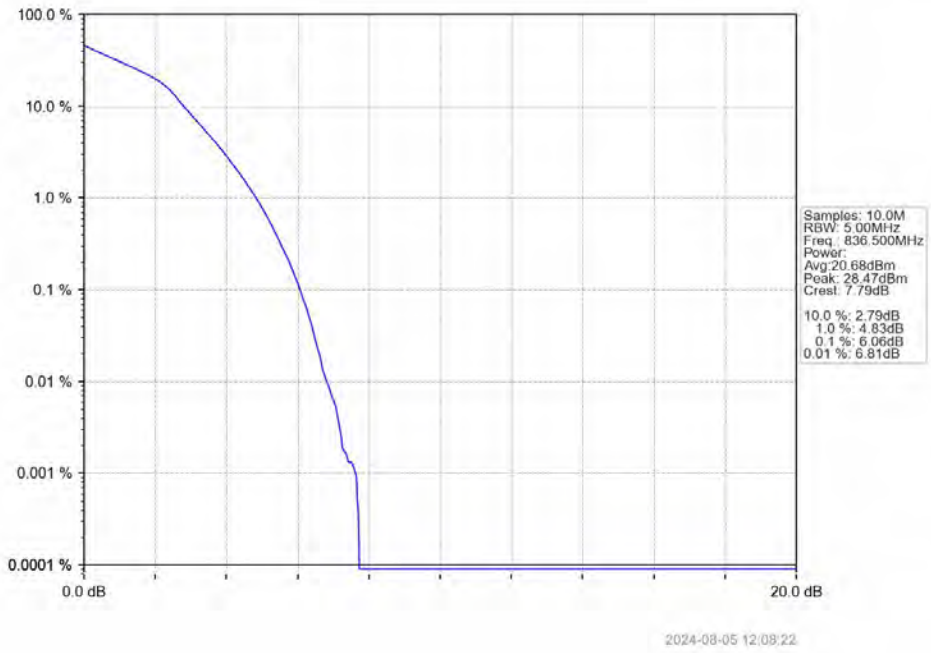
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



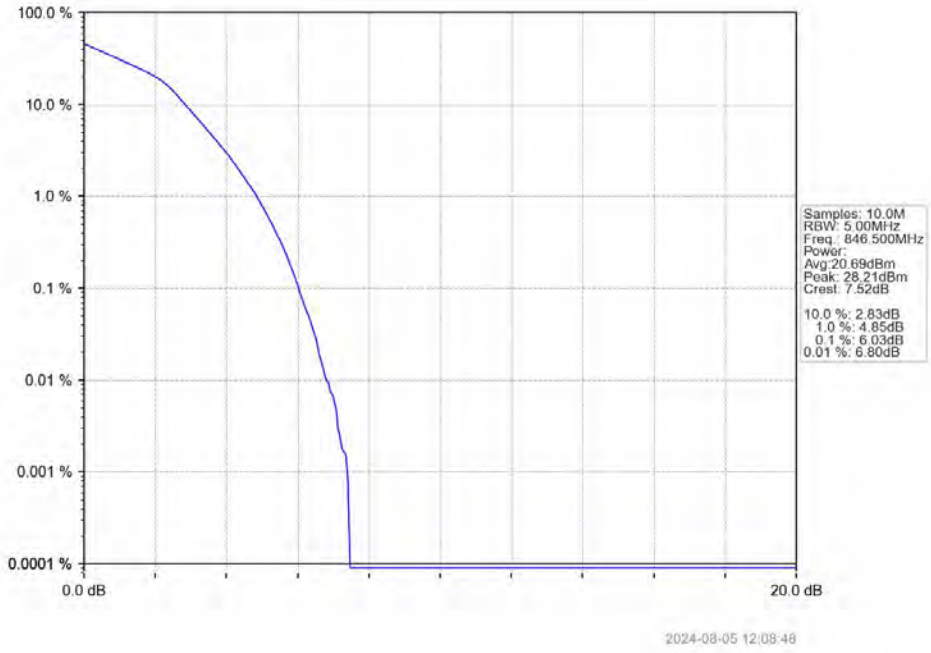
Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV

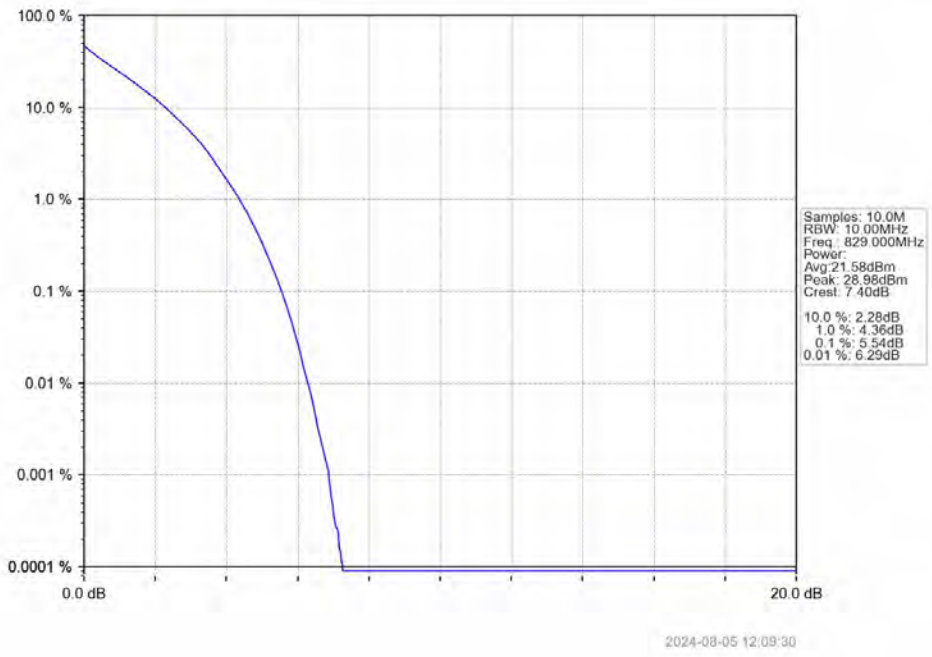


Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV

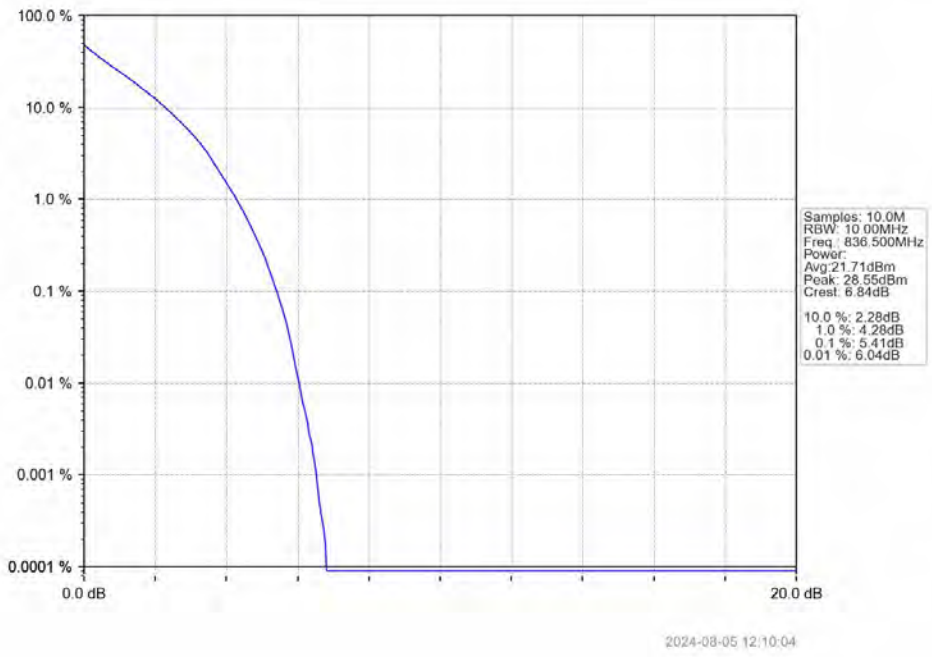


5.2.4 B5_10MHz

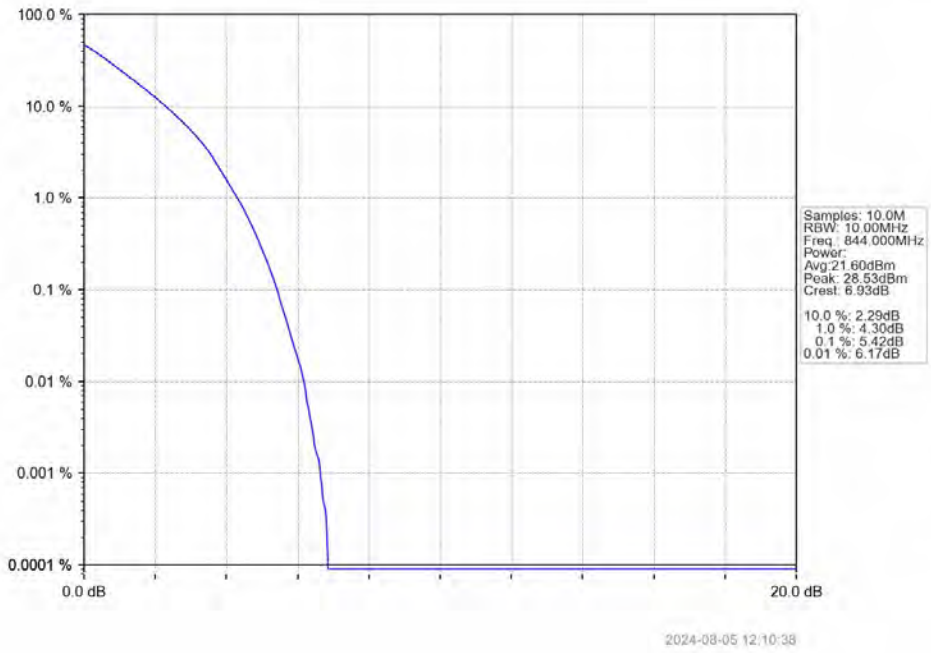
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



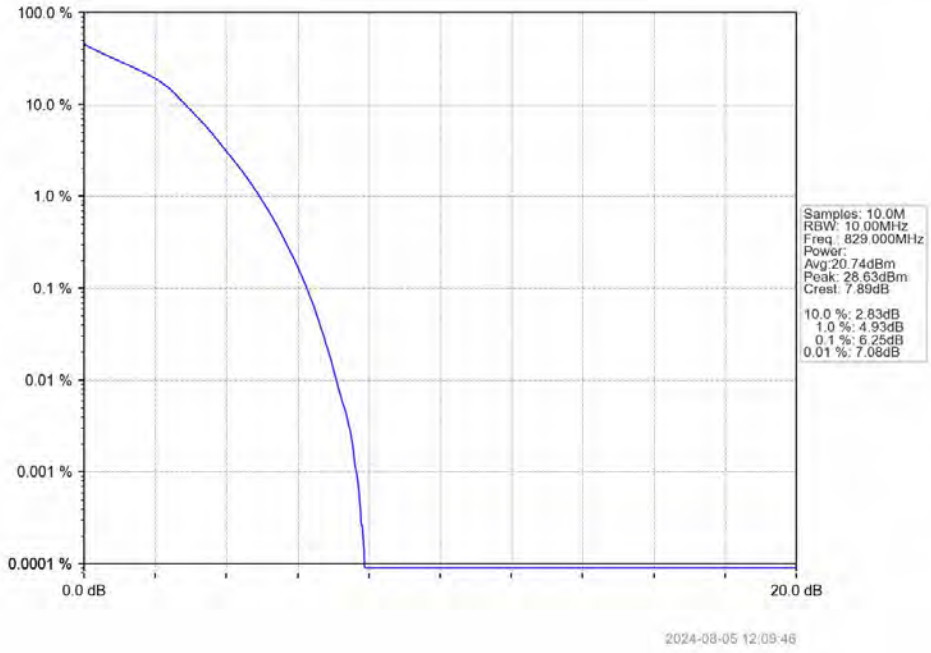
Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



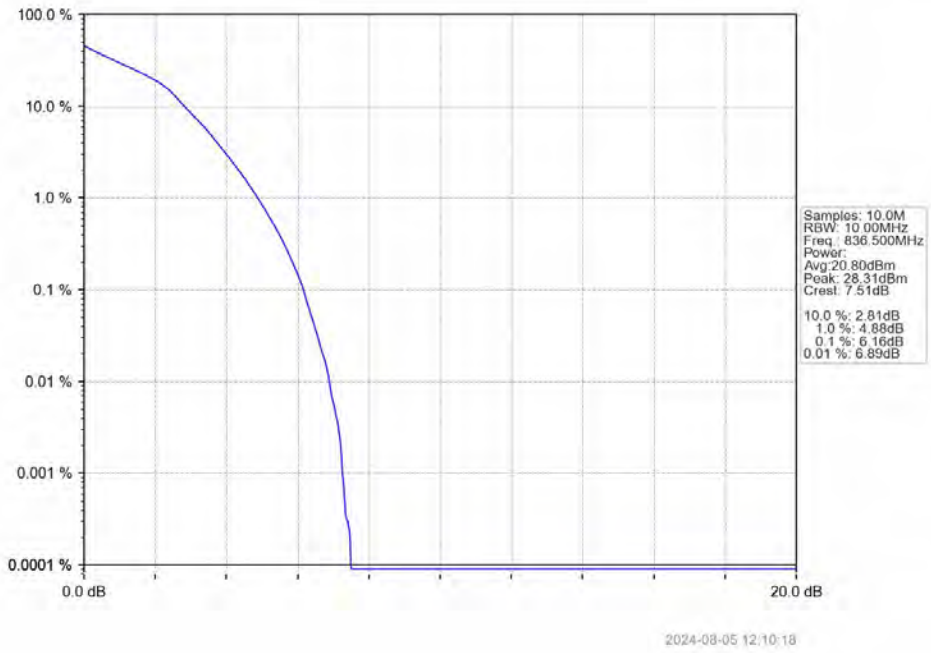
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



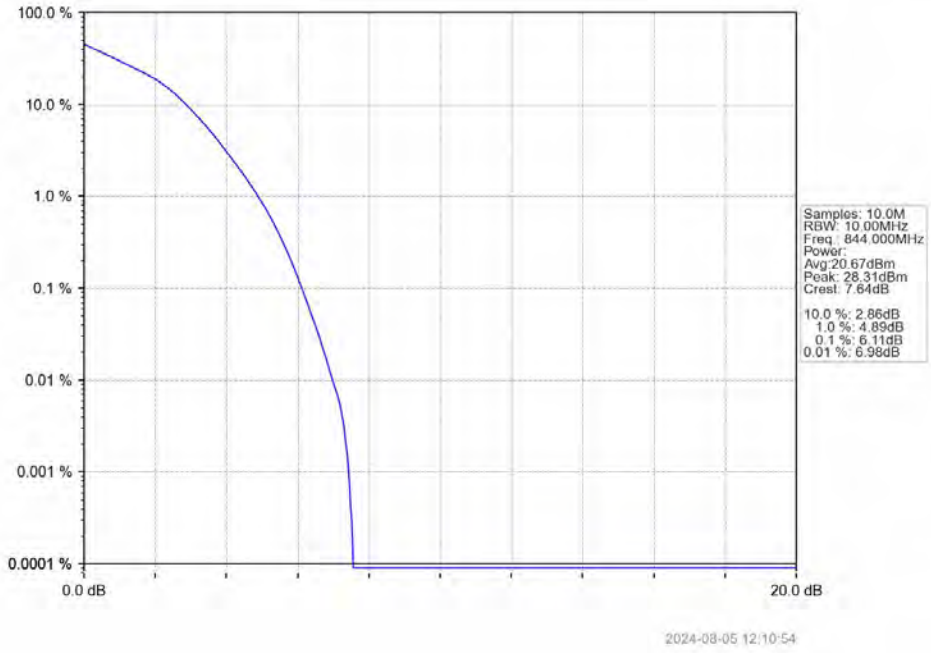
Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV



6. Spurious Emission

6.1 Test Result

6.1.1 B5_1.4MHz

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 B5_3MHz

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

6.1.3 B5_5MHz

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

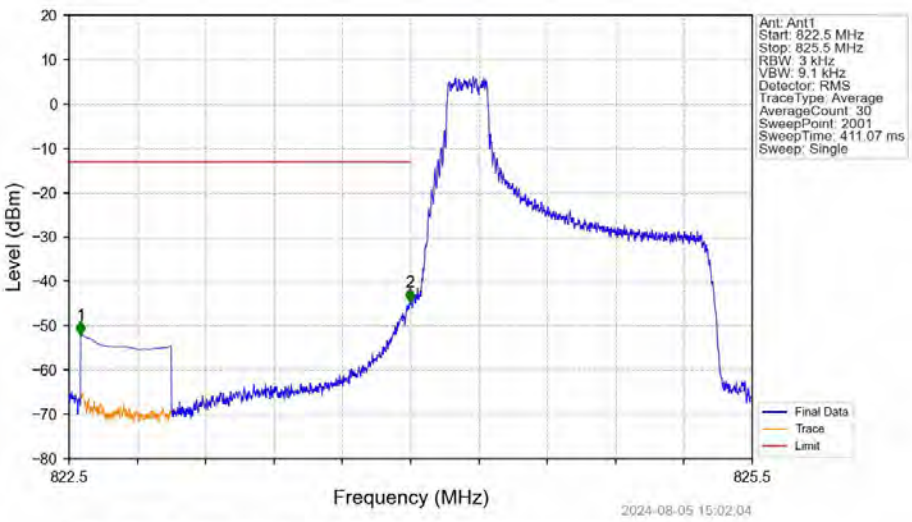
6.1.4 B5_10MHz

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

6.2 Test Graph

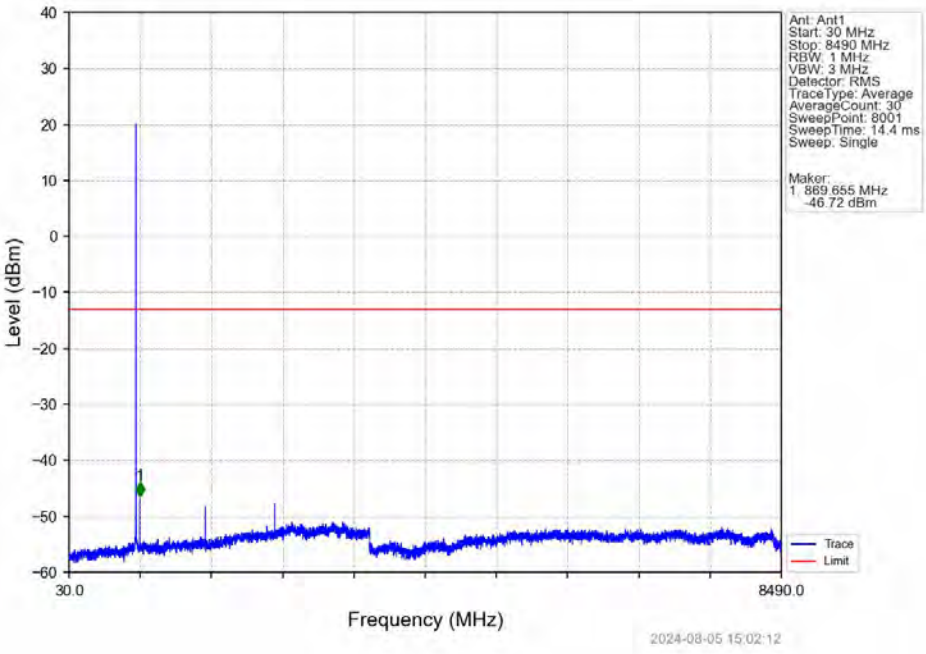
6.2.1 B5_1.4MHz

Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_1_0_NTNV

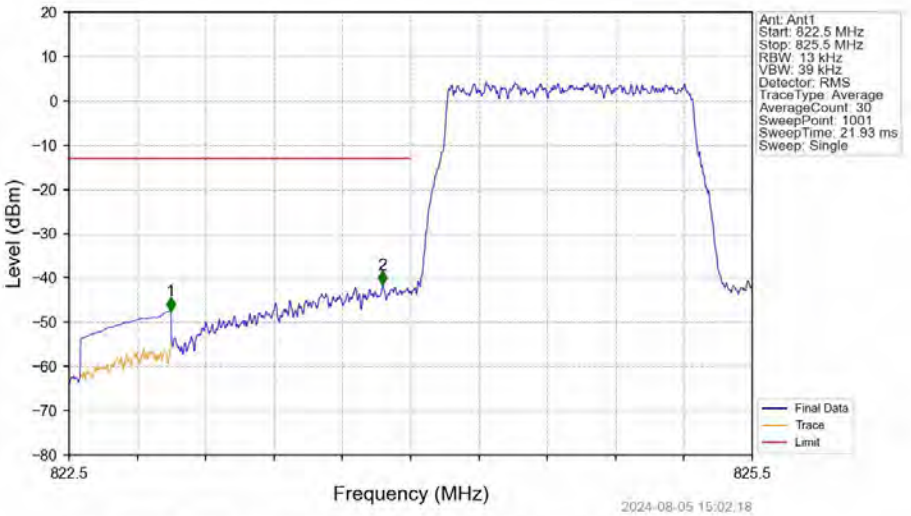


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.551	-51.99	-13	Pass
823	824	0.003	/	2	823.995	-44.69	-13	Pass
824	825.5	0.003	/	/	/	/	/	/

Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_1_0_NTNV

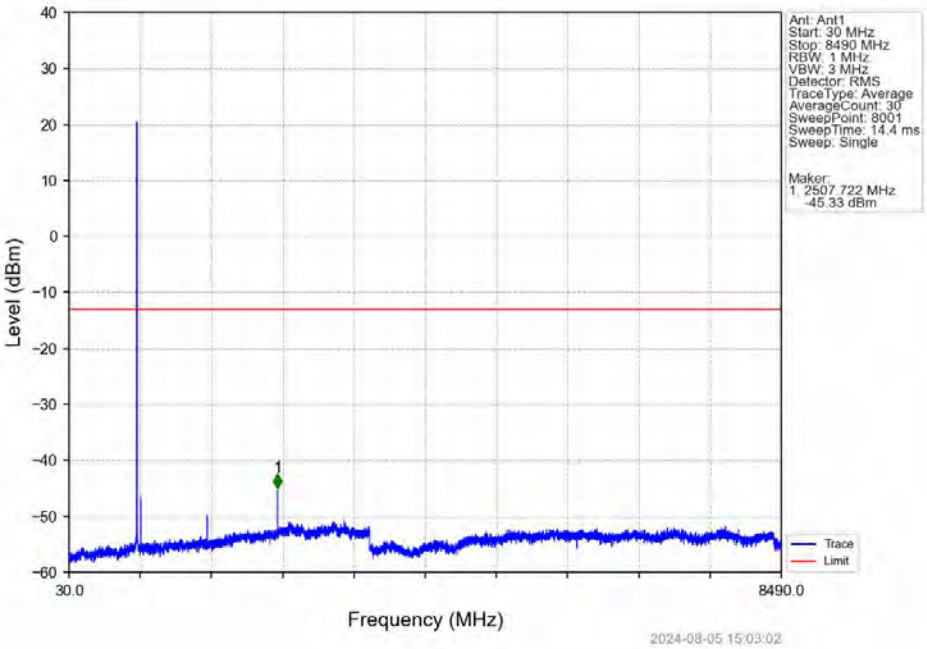


Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV

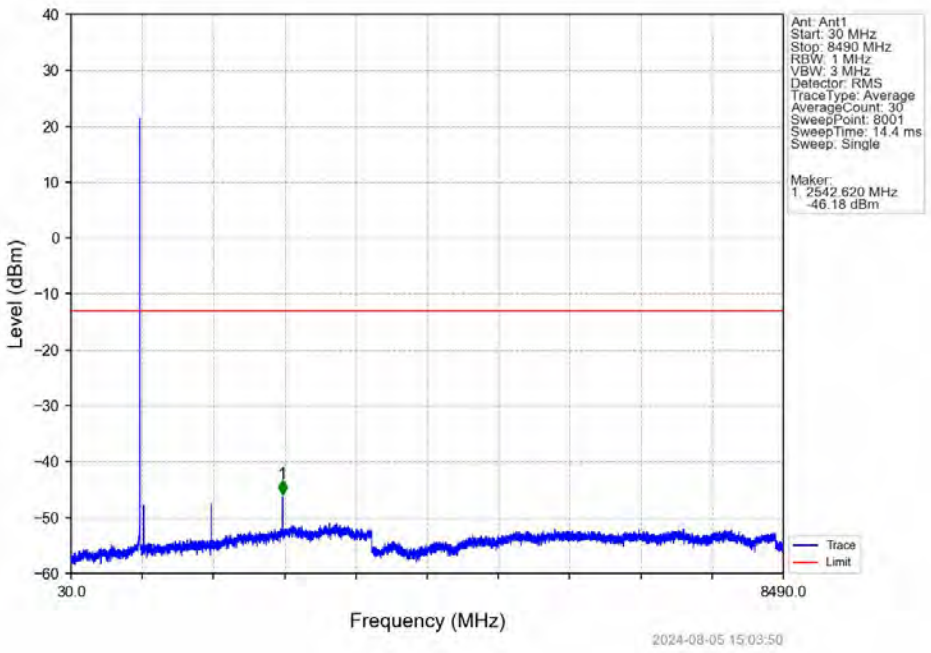


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.947	-47.43	-13	Pass
823	824	0.013	/	2	823.877	-41.51	-13	Pass
824	825.5	0.013	/	/	/	/	/	/

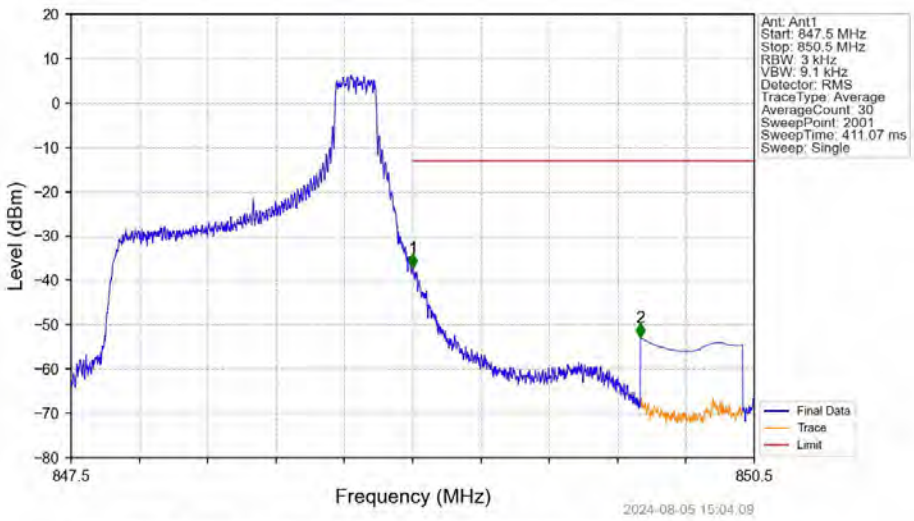
Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_1_0_NTNV

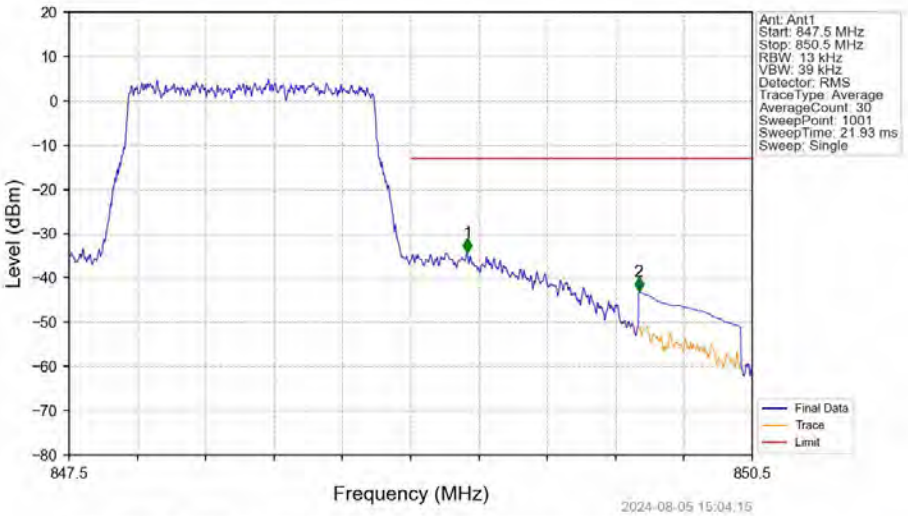


Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_1_5_NTNV



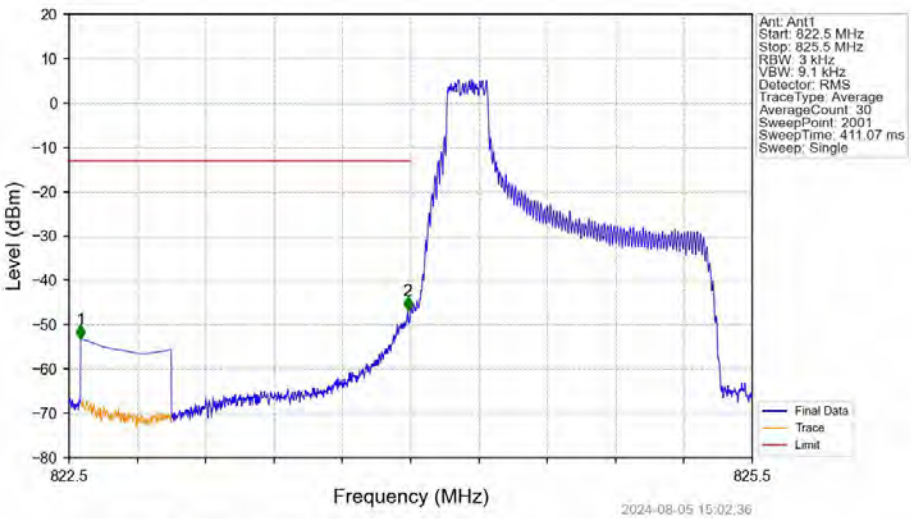
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.001	-37.08	-13	Pass
850	850.5	0.1	CHP	2	850.000	-52.87	-13	Pass

Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



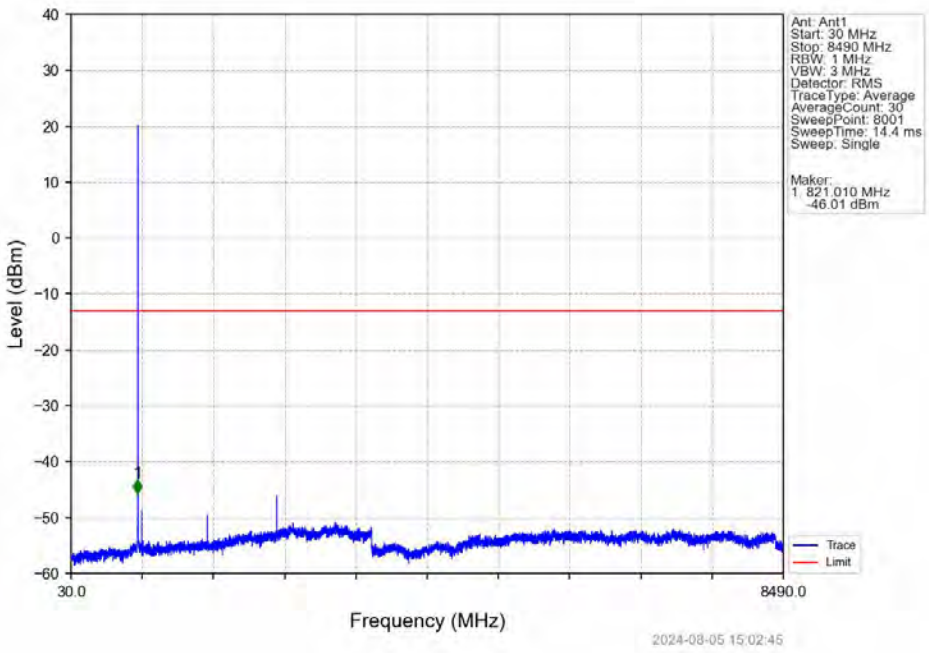
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.013	/	/	/	/	/	/
849	850	0.013	/	1	849.249	-34.19	-13	Pass
850	850.5	0.1	CHP	2	850.002	-42.96	-13	Pass

Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_1_0_NTNV

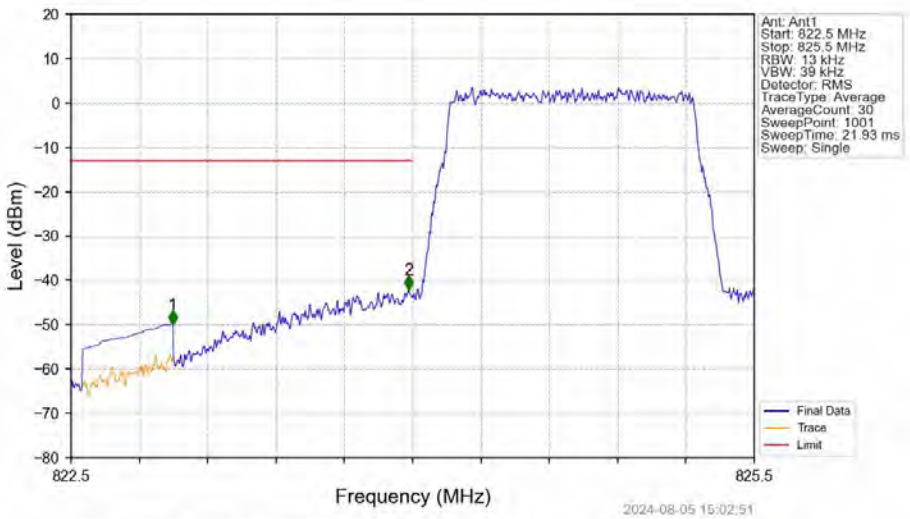


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.551	-53.24	-13	Pass
823	824	0.003	/	2	823.988	-46.76	-13	Pass
824	825.5	0.003	/	/	/	/	/	/

Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_1_0_NTNV

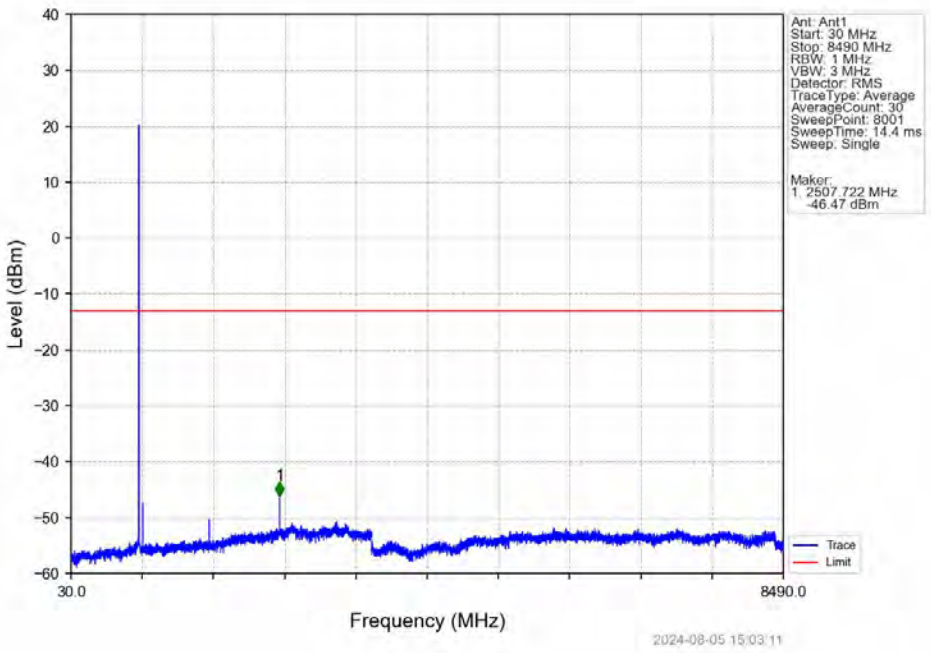


Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV

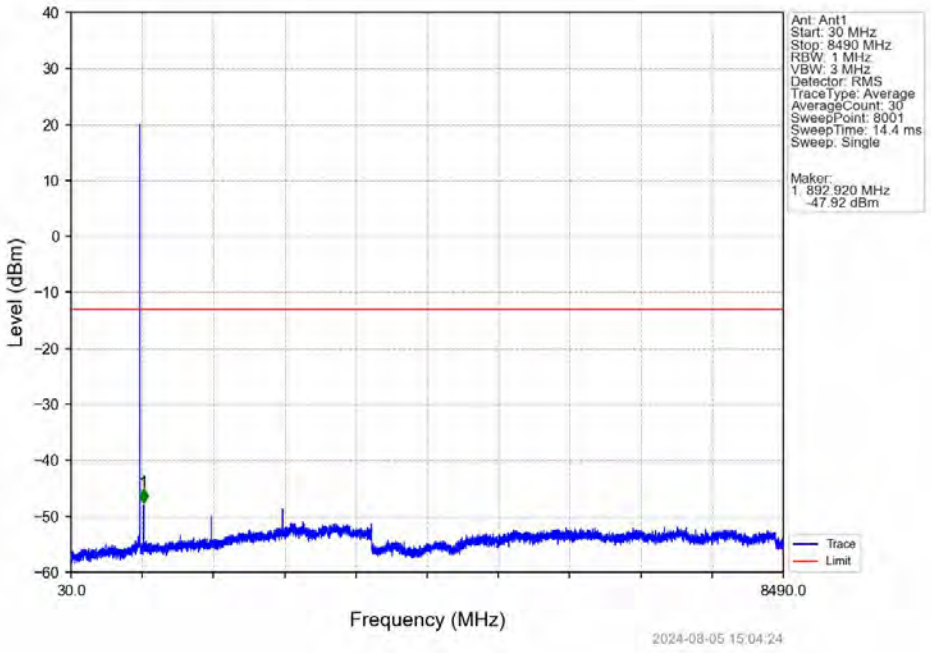


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.947	-49.86	-13	Pass
823	824	0.013	/	2	823.982	-42.13	-13	Pass
824	825.5	0.013	/	/	/	/	/	/

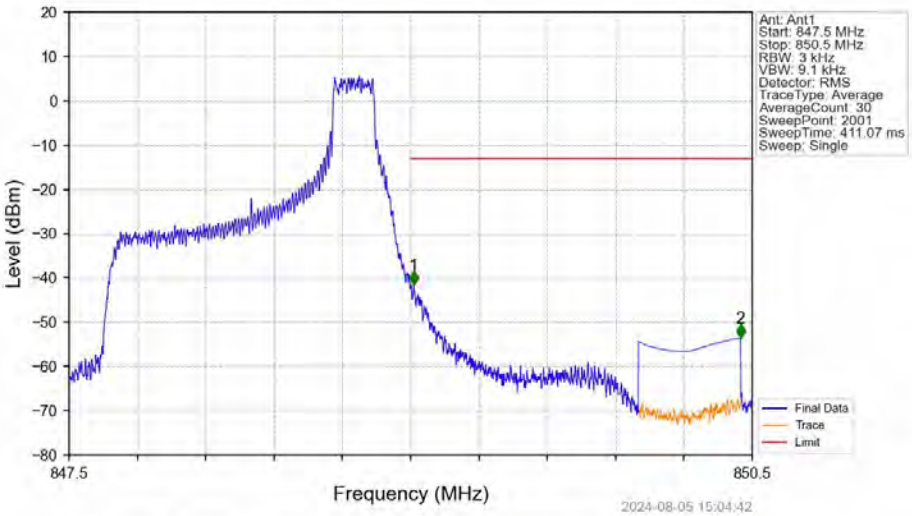
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV



Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_1_0_NTNV

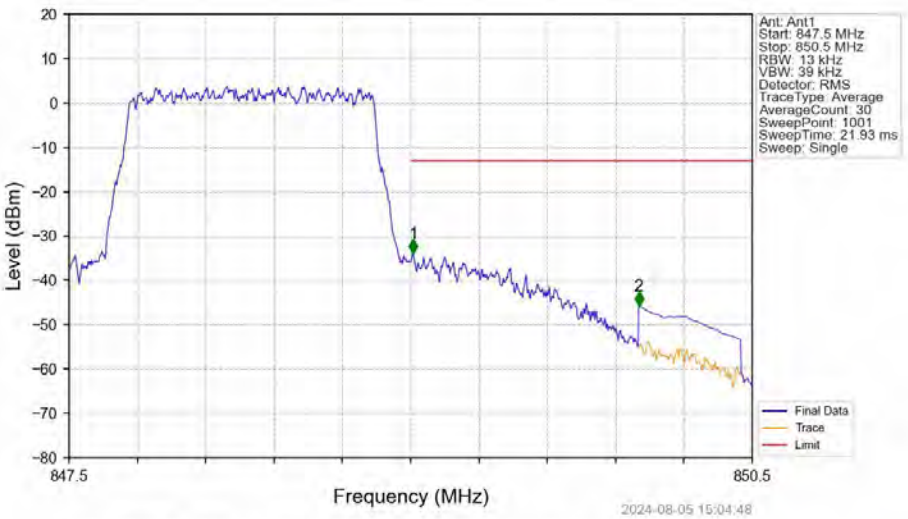


Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_1_5_NTNV



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	849.014	-41.57	-13	Pass
850	850.5	0.1	CHP	2	850.449	-53.62	-13	Pass

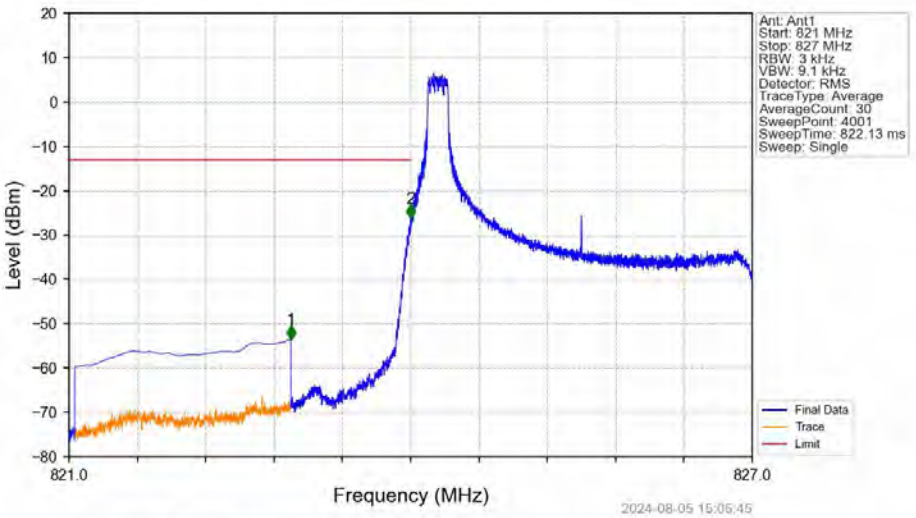
Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



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	849.012	-33.78	-13	Pass
850	850.5	0.1	CHP	2	850.002	-45.70	-13	Pass

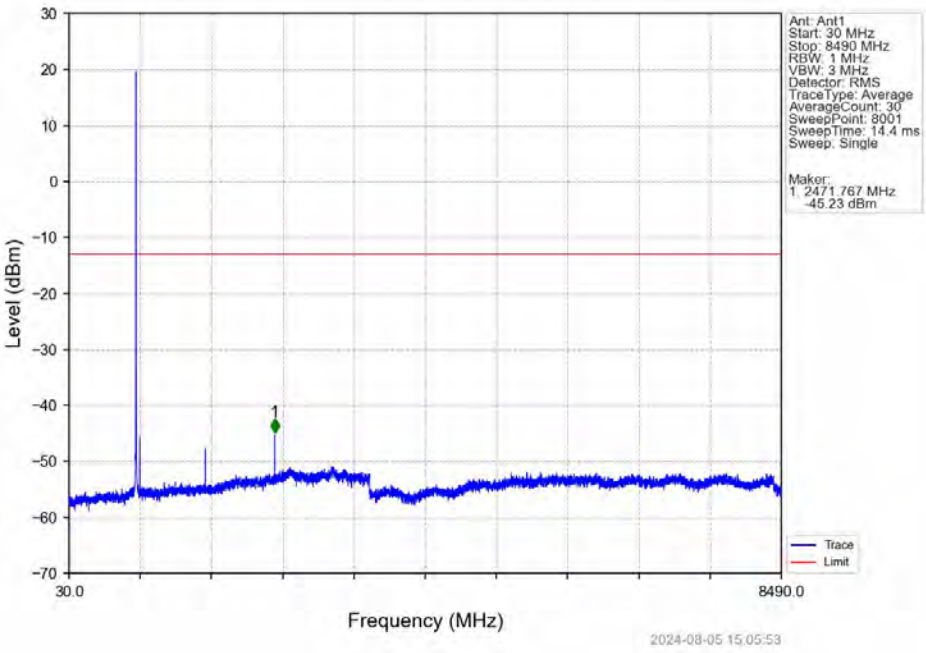
6.2.2 B5_3MHz

Band5_3MHz_QPSK_LCH_825.5MHz_RB_1_0_NTNV

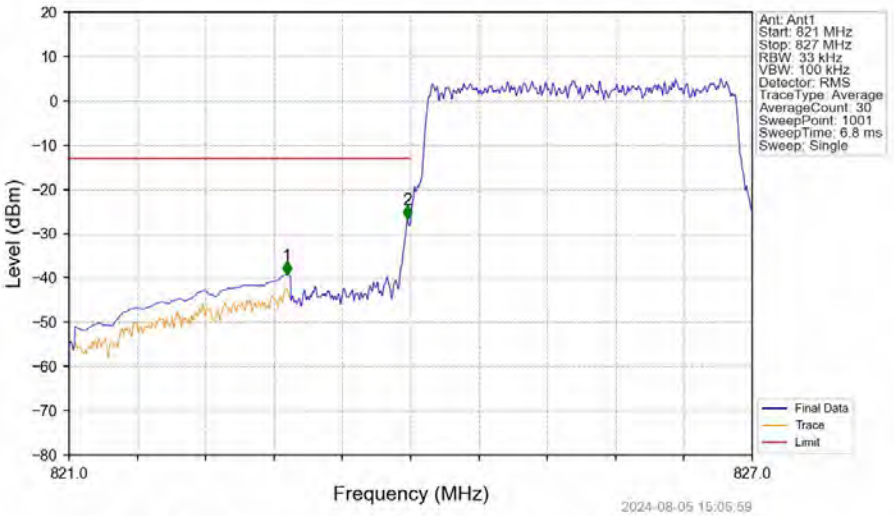


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.947	-53.59	-13	Pass
823	824	0.003	/	2	823.999	-26.23	-13	Pass
824	827	0.003	/	/	/	/	/	/

Band5_3MHz_QPSK_LCH_825.5MHz_RB_1_0_NTNV

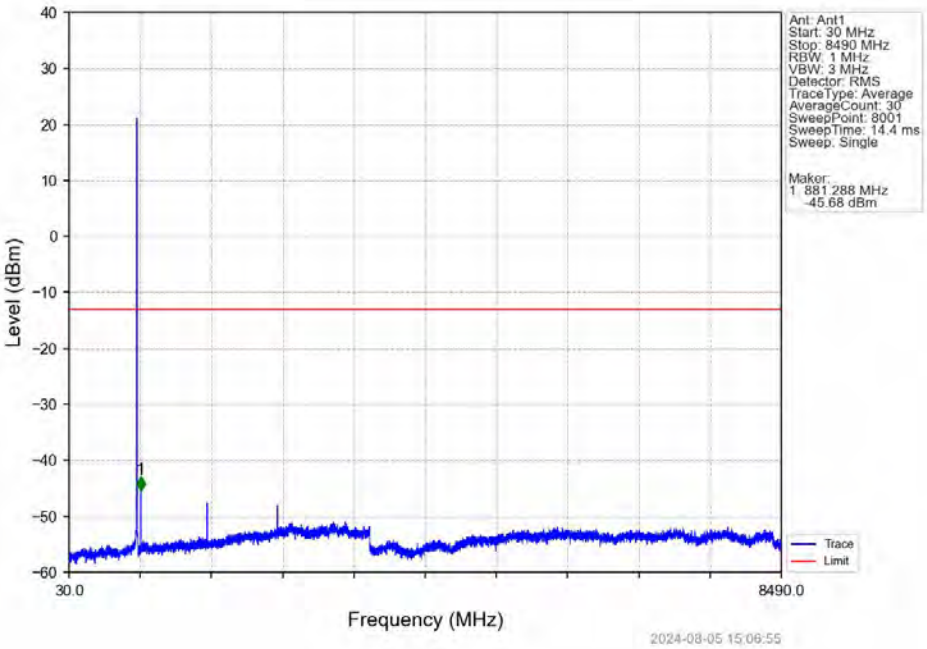


Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV

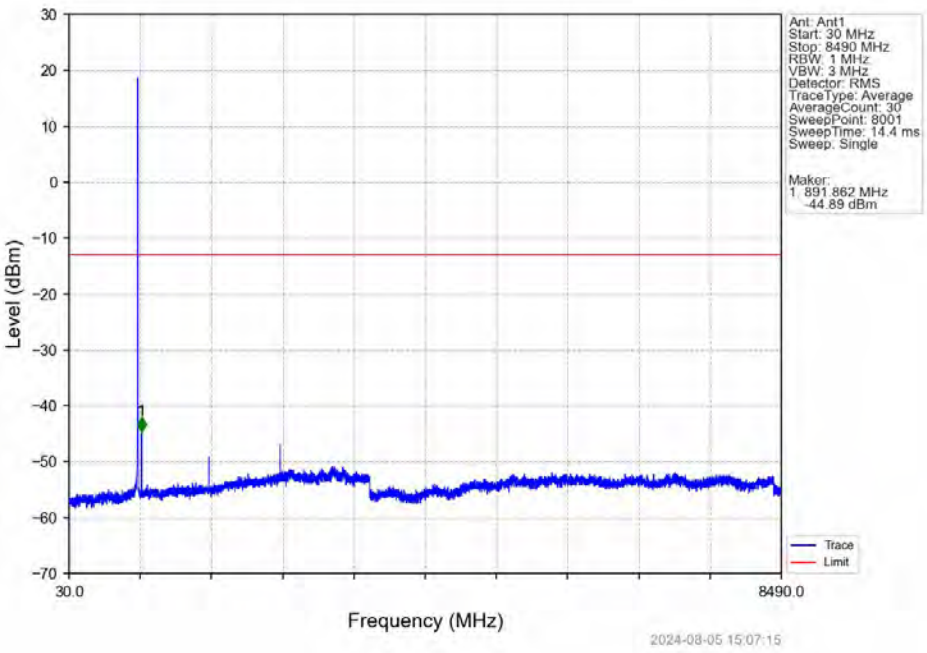


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.914	-39.35	-13	Pass
823	824	0.033	/	2	823.970	-26.70	-13	Pass
824	827	0.033	/	/	/	/	/	/

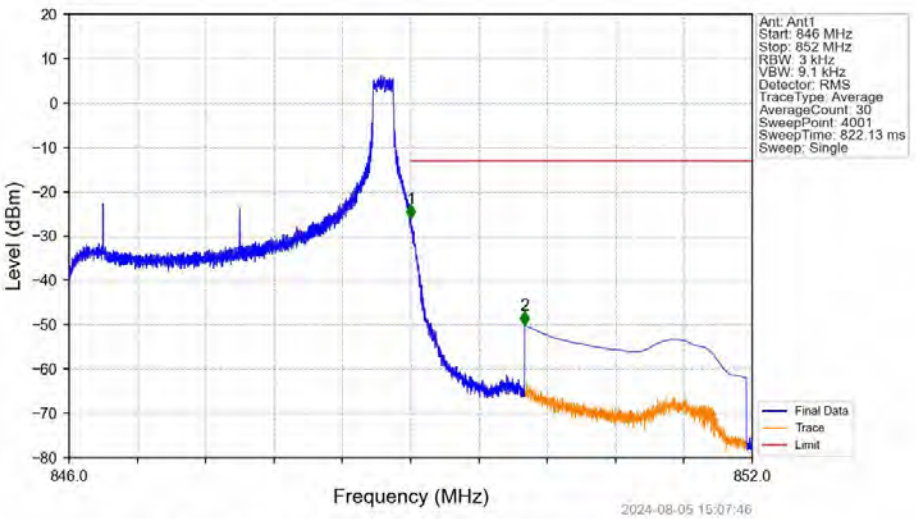
Band5_3MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



Band5_3MHz_QPSK_HCH_847.5MHz_RB_1_0_NTNV

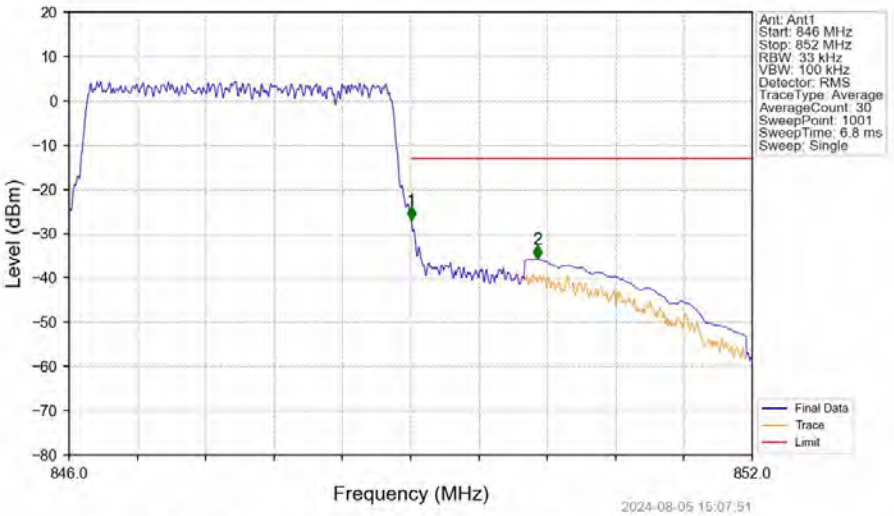


Band5_3MHz_QPSK_HCH_847.5MHz_RB_1_14_NTNV



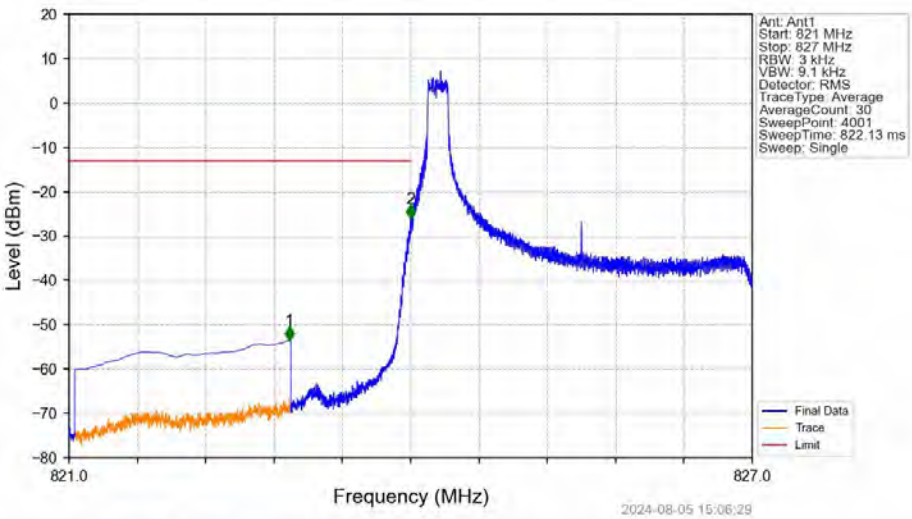
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.001	-26.08	-13	Pass
850	852	0.1	CHP	2	850.000	-50.12	-13	Pass

Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



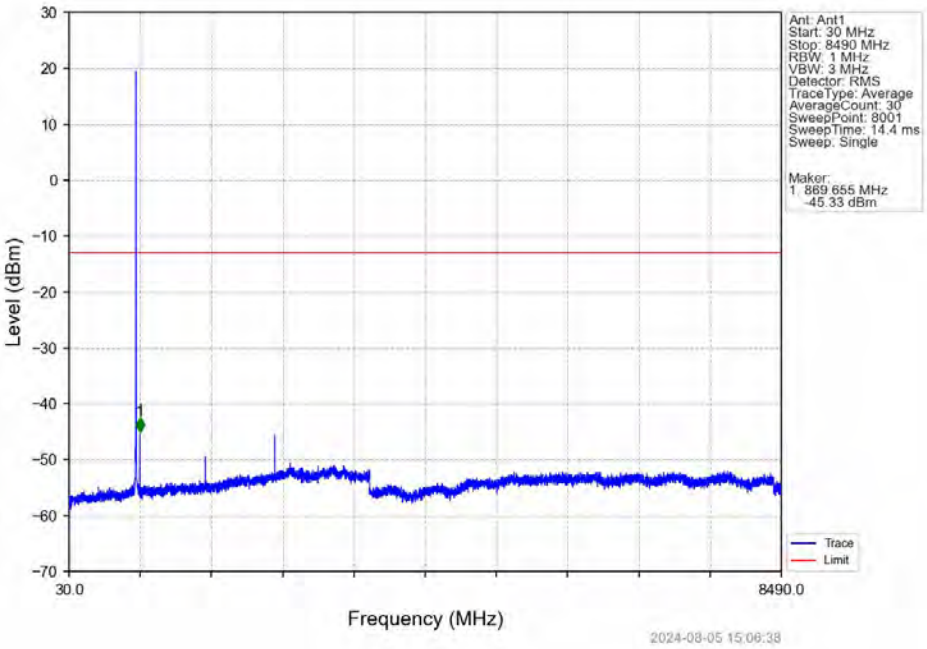
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.033	/	/	/	/	/	/
849	850	0.033	/	1	849.006	-26.95	-13	Pass
850	852	0.1	CHP	2	850.116	-35.73	-13	Pass

Band5_3MHz_16QAM_LCH_825.5MHz_RB_1_0_NTNV

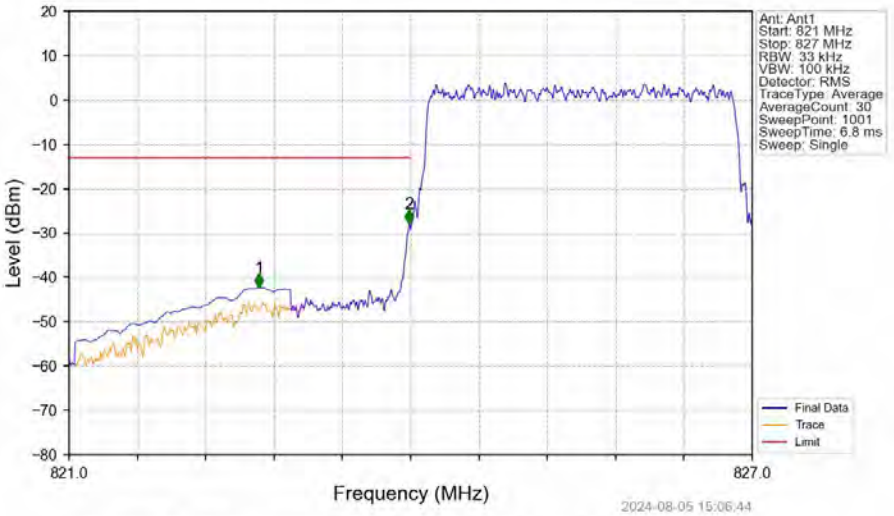


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.933	-53.53	-13	Pass
823	824	0.003	/	2	823.999	-26.08	-13	Pass
824	827	0.003	/	/	/	/	/	/

Band5_3MHz_16QAM_LCH_825.5MHz_RB_1_0_NTNV

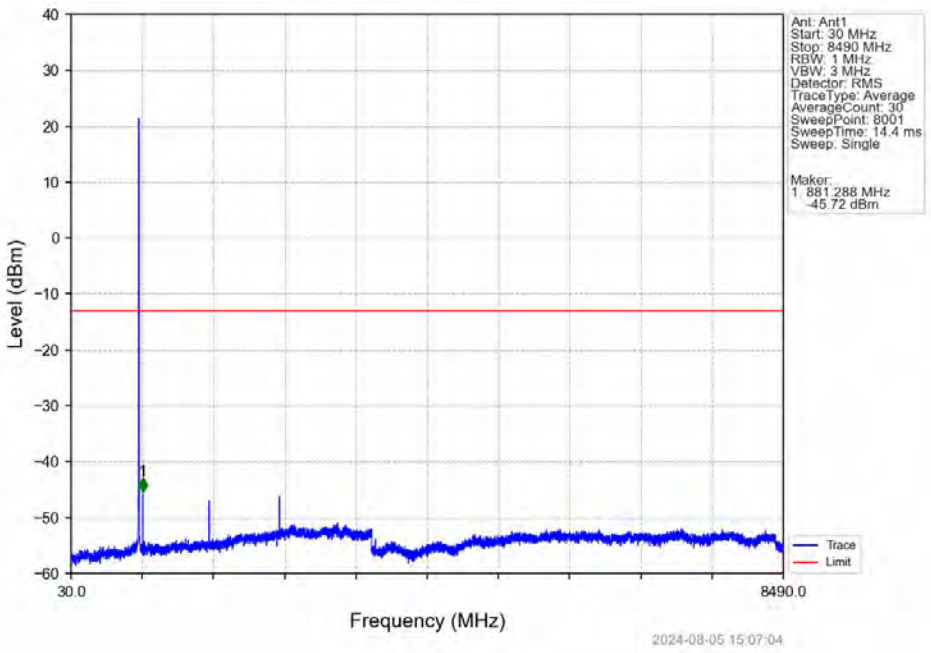


Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV

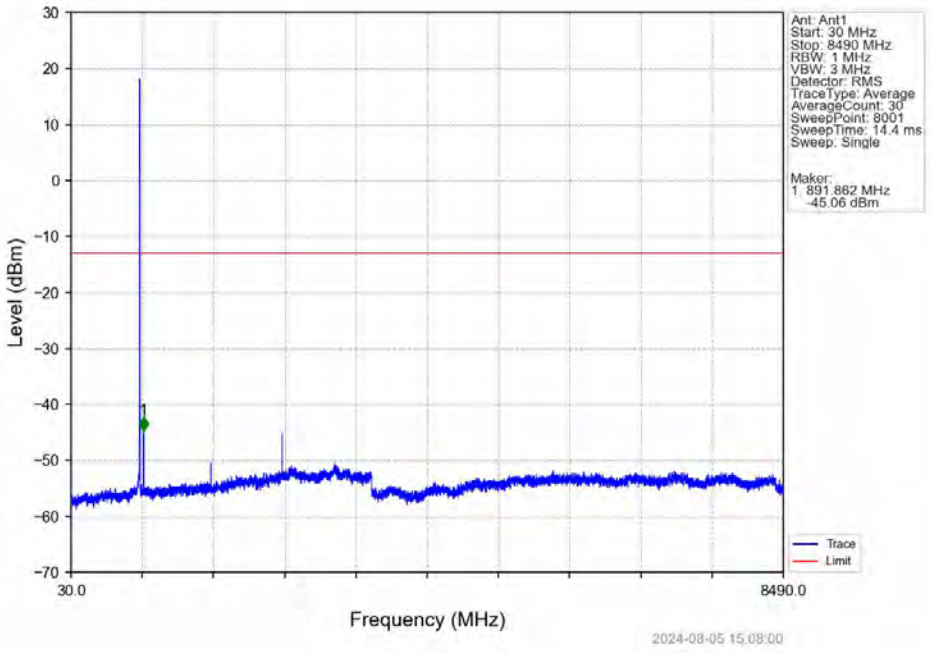


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.668	-42.23	-13	Pass
823	824	0.033	/	2	823.988	-27.81	-13	Pass
824	827	0.033	/	/	/	/	/	/

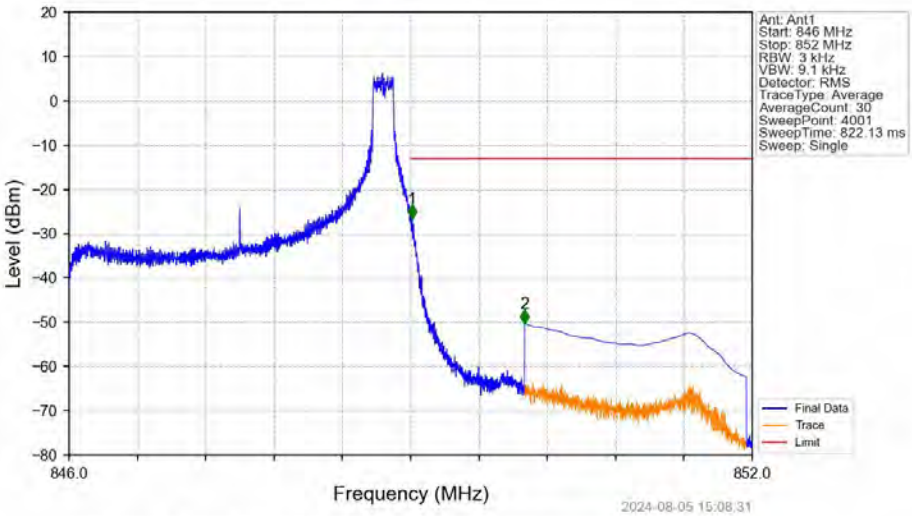
Band5_3MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV



Band5_3MHz_16QAM_HCH_847.5MHz_RB_1_0_NTNV

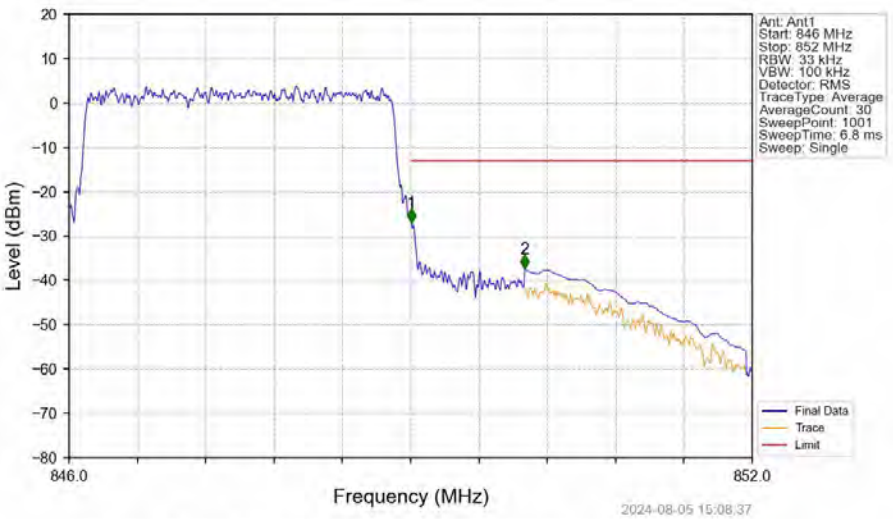


Band5_3MHz_16QAM_HCH_847.5MHz_RB_1_14_NTNV



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	849.012	-26.62	-13	Pass
850	852	0.1	CHP	2	850.000	-50.19	-13	Pass

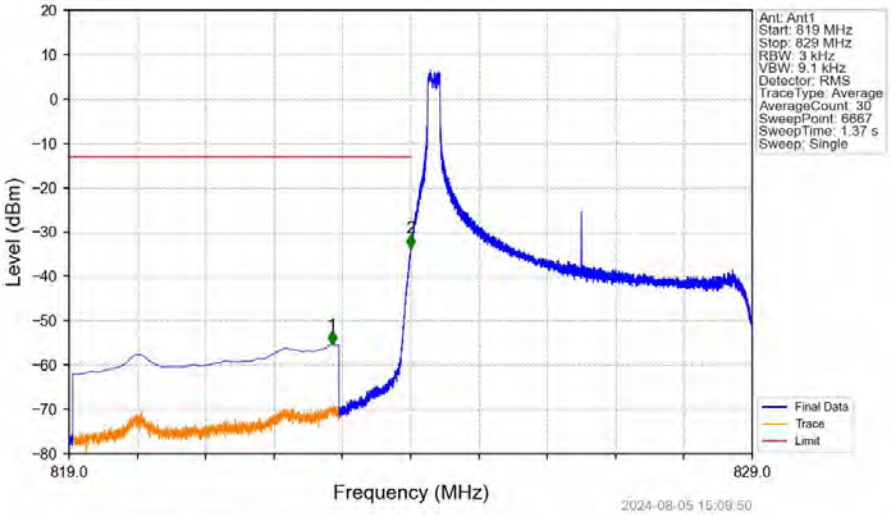
Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



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	849.006	-26.99	-13	Pass
850	852	0.1	CHP	2	850.002	-37.33	-13	Pass

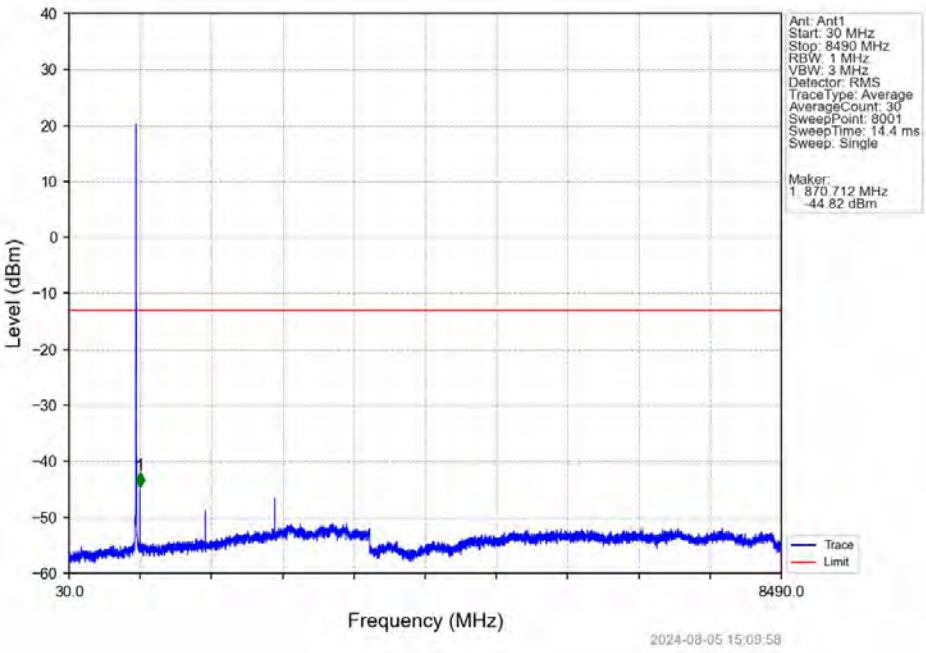
6.2.3 B5_5MHz

Band5_5MHz_QPSK_LCH_826.5MHz_RB_1_0_NTNV

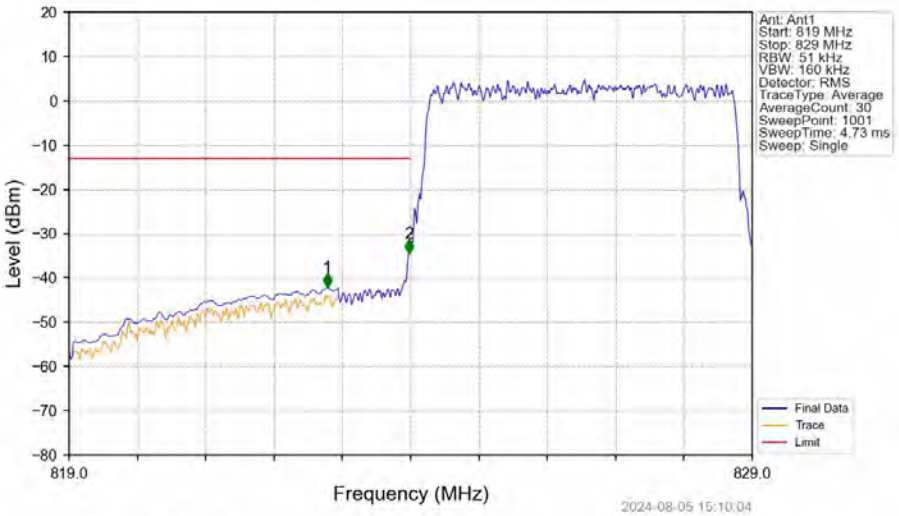


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.849	-55.27	-13	Pass
823	824	0.003	/	2	823.997	-33.59	-13	Pass
824	829	0.003	/	/	/	/	/	/

Band5_5MHz_QPSK_LCH_826.5MHz_RB_1_0_NTNV

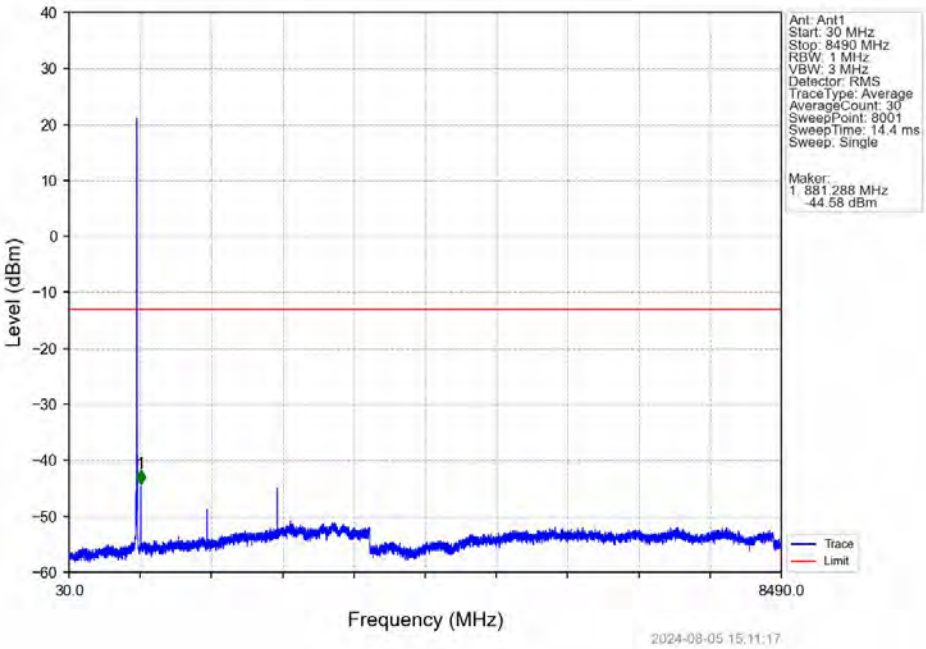


Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV

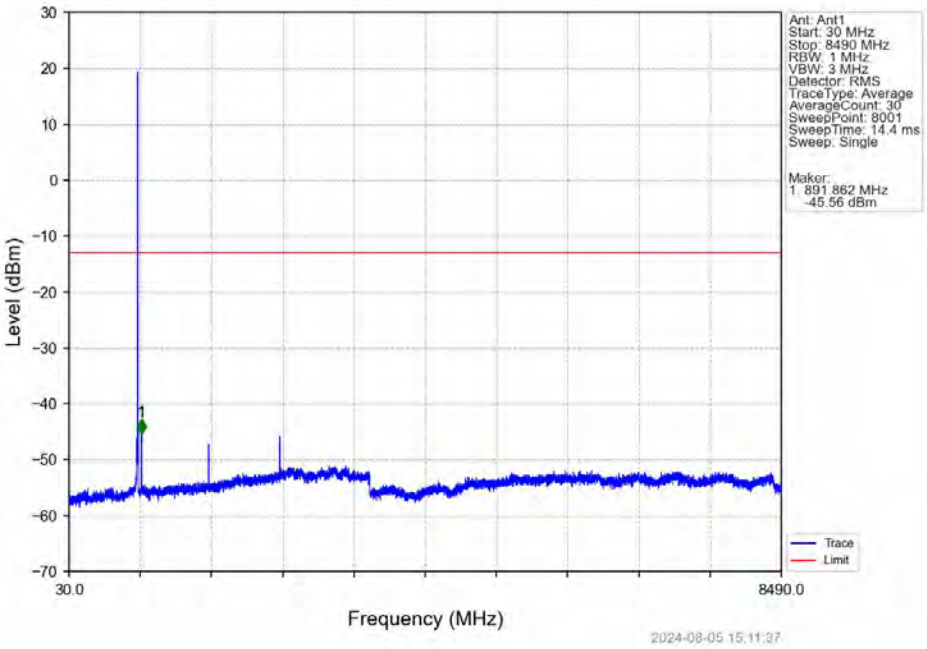


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.780	-42.14	-13	Pass
823	824	0.051	/	2	823.980	-34.38	-13	Pass
824	829	0.051	/	/	/	/	/	/

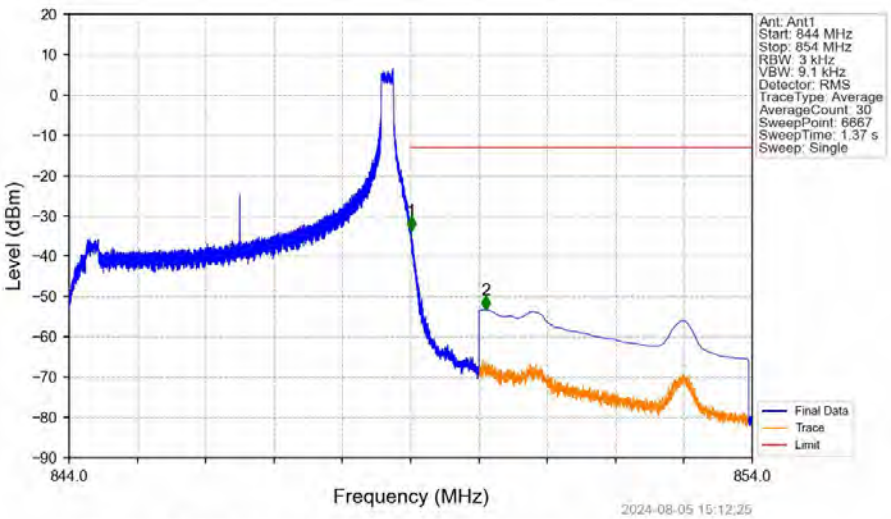
Band5_5MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



Band5_5MHz_QPSK_HCH_846.5MHz_RB_1_0_NTNV

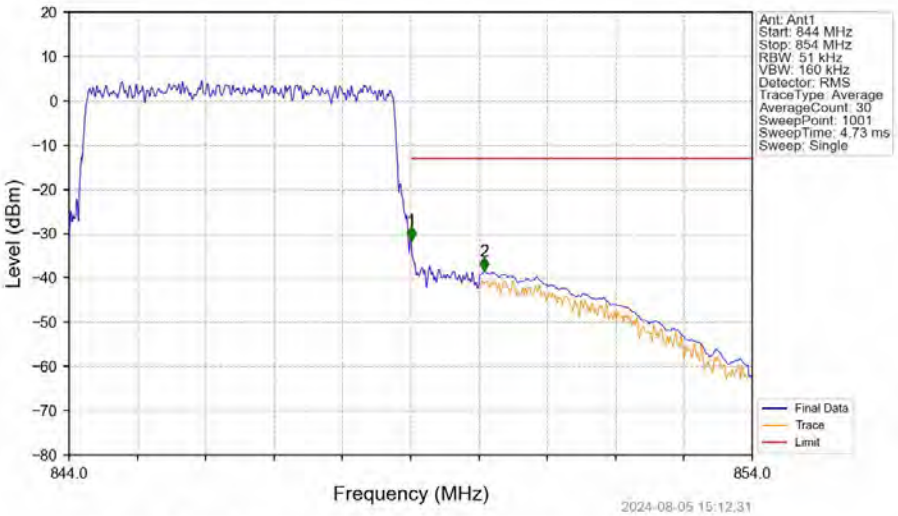


Band5_5MHz_QPSK_HCH_846.5MHz_RB_1_24_NTNV



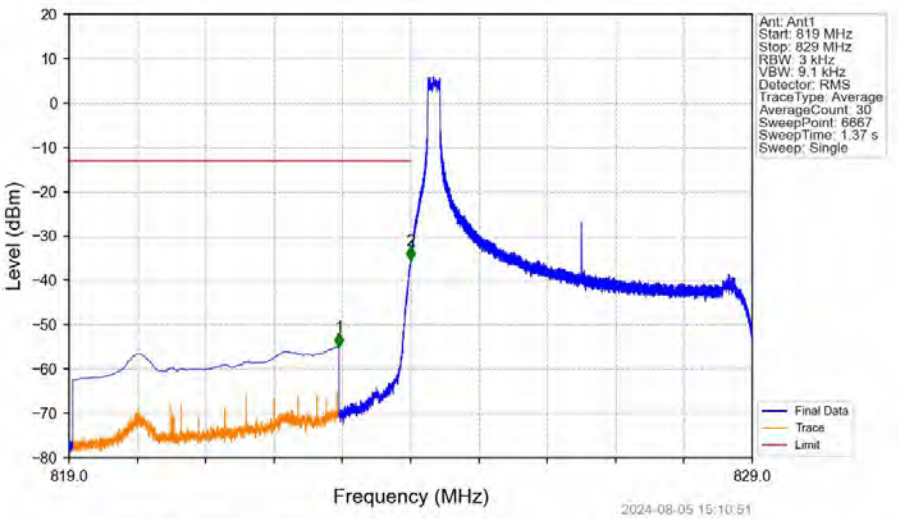
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.009	-33.72	-13	Pass
850	854	0.1	CHP	2	850.100	-53.21	-13	Pass

Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



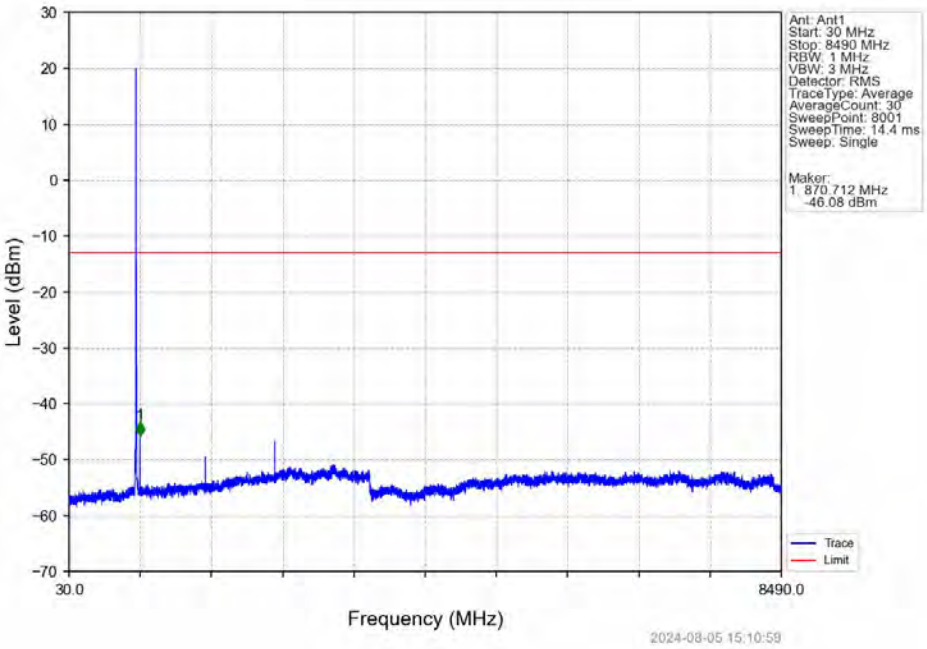
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.051	/	/	/	/	/	/
849	850	0.051	/	1	849.010	-31.51	-13	Pass
850	854	0.1	CHP	2	850.080	-38.48	-13	Pass

Band5_5MHz_16QAM_LCH_826.5MHz_RB_1_0_NTNV

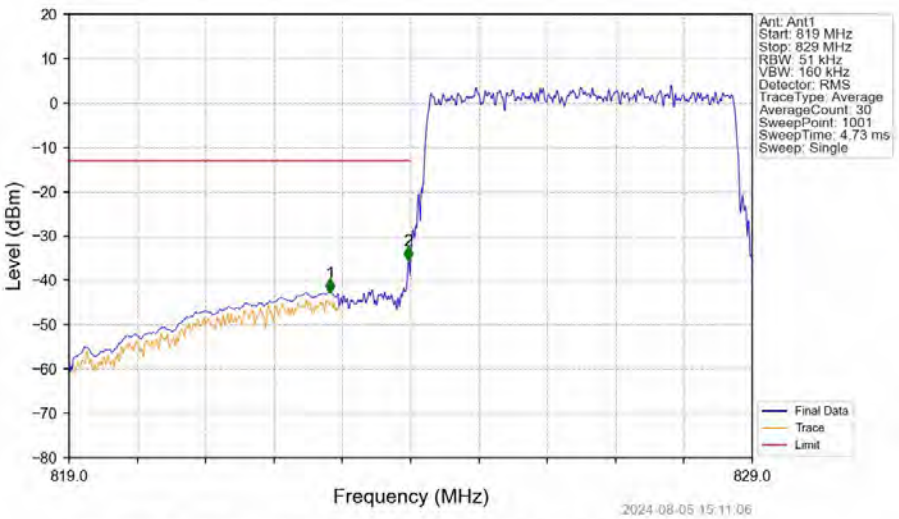


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.950	-55.06	-13	Pass
823	824	0.003	/	2	823.999	-35.42	-13	Pass
824	829	0.003	/	/	/	/	/	/

Band5_5MHz_16QAM_LCH_826.5MHz_RB_1_0_NTNV

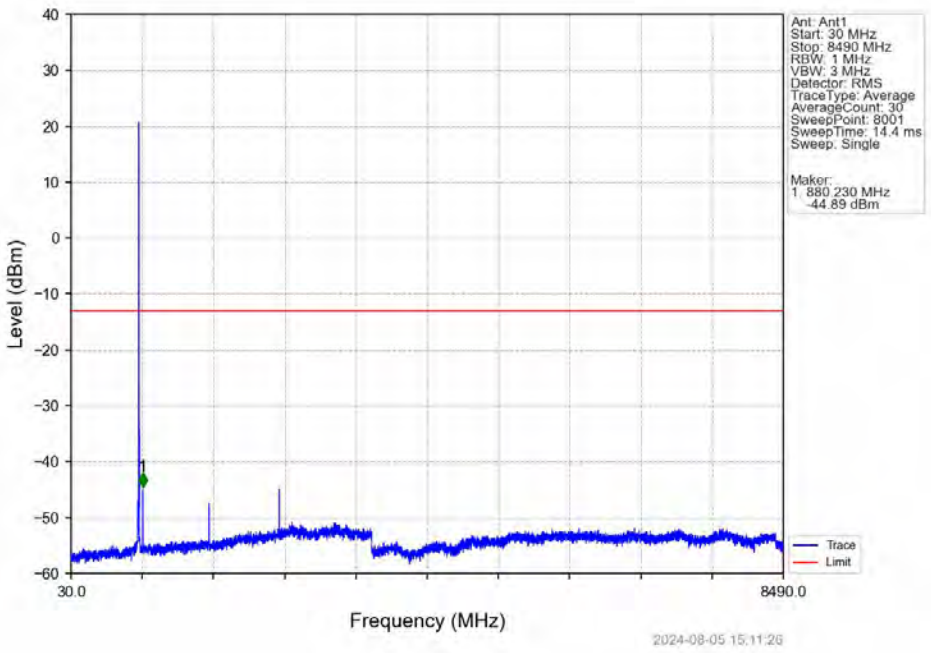


Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV

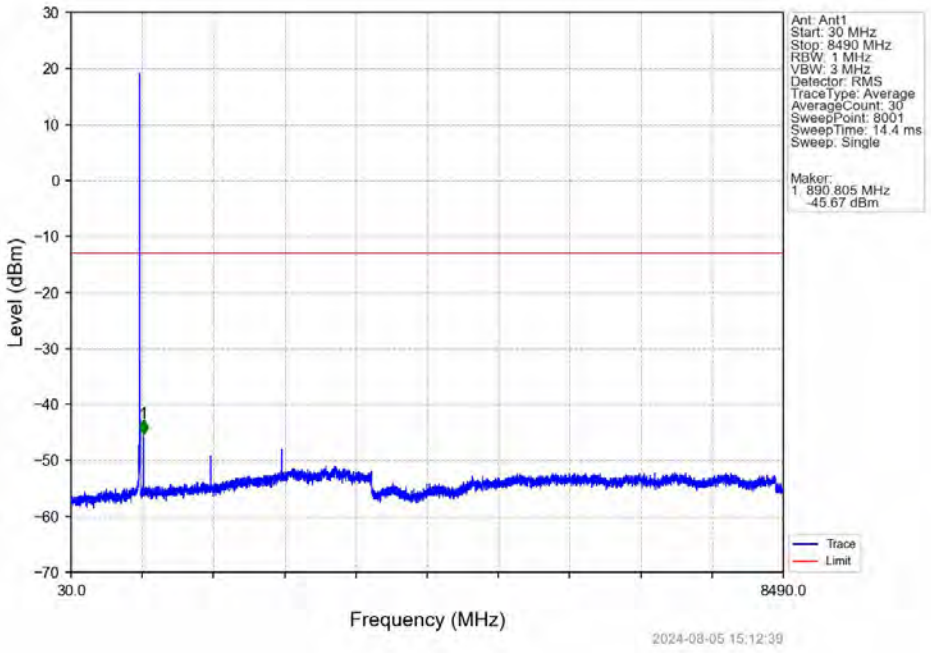


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.820	-42.72	-13	Pass
823	824	0.051	/	2	823.970	-35.51	-13	Pass
824	829	0.051	/	/	/	/	/	/

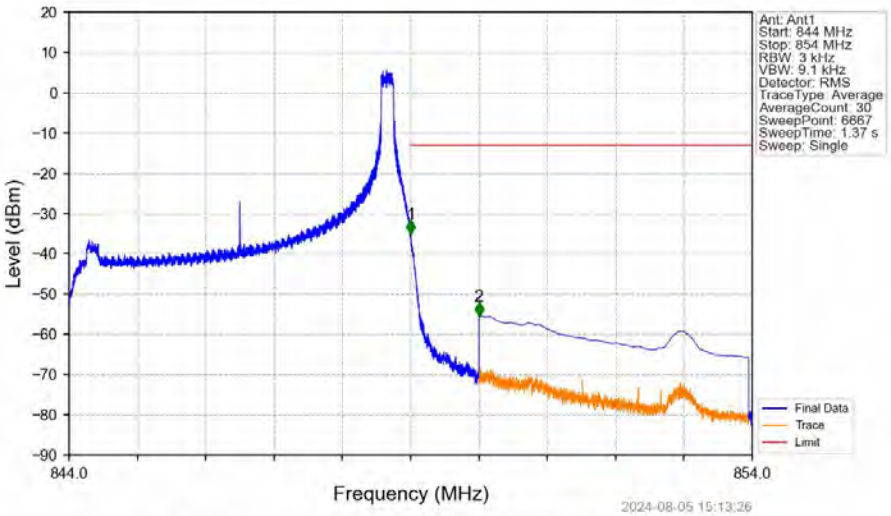
Band5_5MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV



Band5_5MHz_16QAM_HCH_846.5MHz_RB_1_0_NTNV

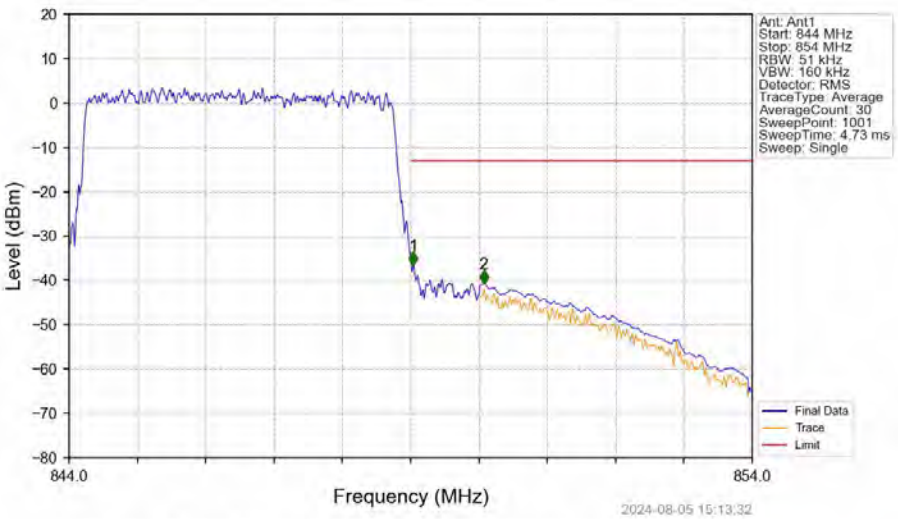


Band5_5MHz_16QAM_HCH_846.5MHz_RB_1_24_NTNV



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	849.001	-35.07	-13	Pass
850	854	0.1	CHP	2	850.001	-55.41	-13	Pass

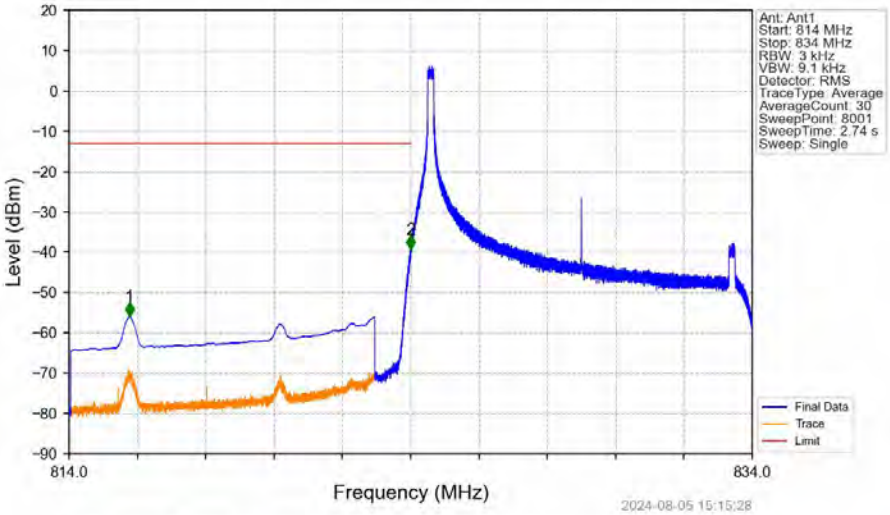
Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



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	849.040	-36.51	-13	Pass
850	854	0.1	CHP	2	850.070	-40.79	-13	Pass

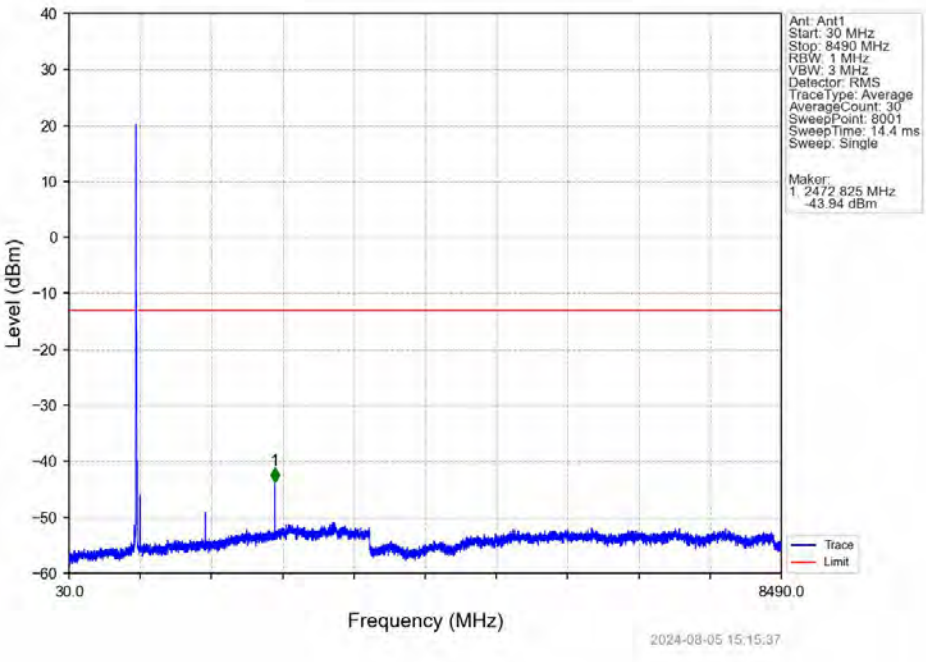
6.2.4 B5_10MHz

Band5_10MHz_QPSK_LCH_829MHz_RB_1_0_NTNV

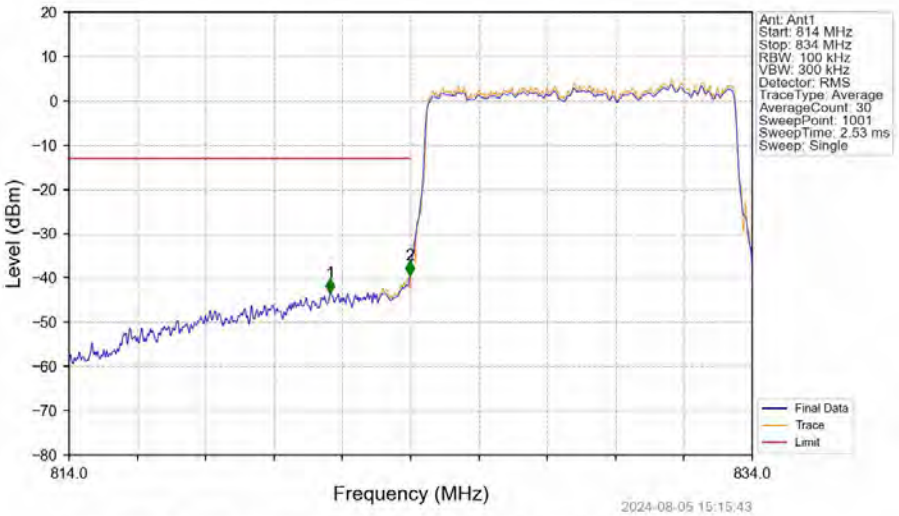


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	823	0.1	CHP	1	815.773	-55.86	-13	Pass
823	824	0.003	/	2	823.997	-39.31	-13	Pass
824	834	0.003	/	/	/	/	/	/

Band5_10MHz_QPSK_LCH_829MHz_RB_1_0_NTNV

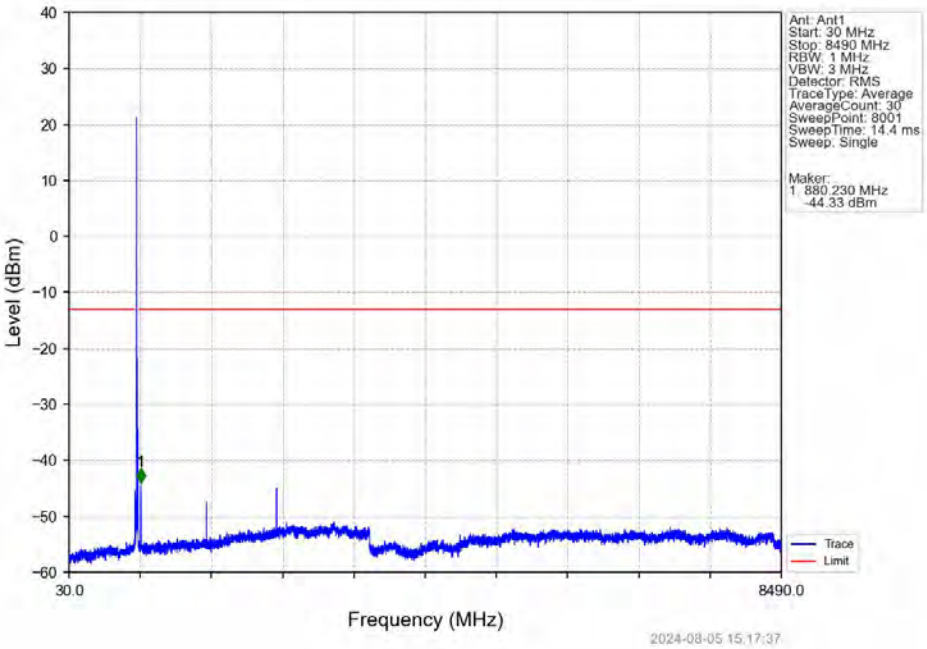


Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV

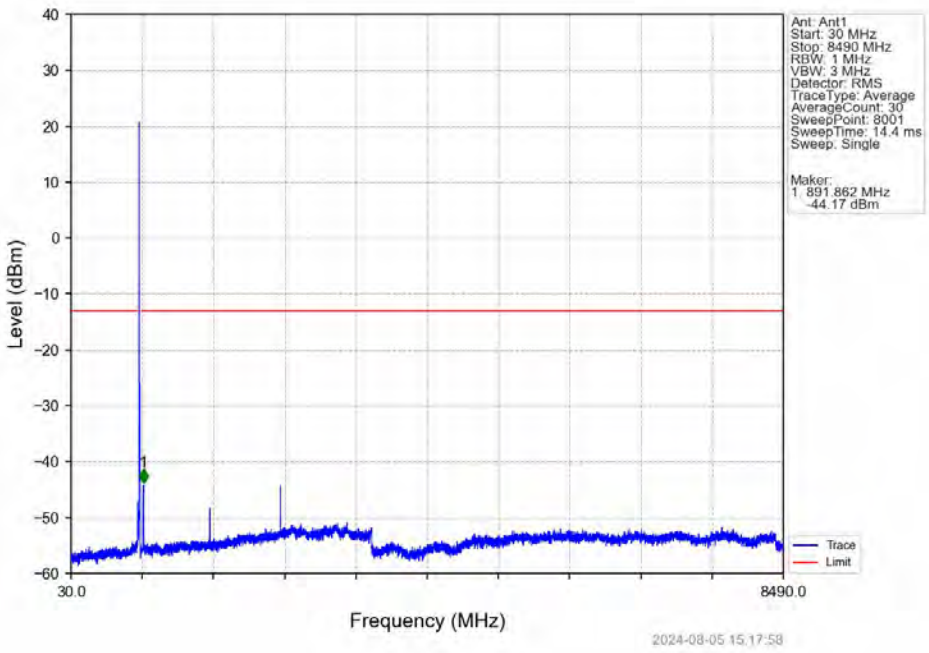


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	823	0.1	/	1	821.640	-43.33	-13	Pass
823	824	0.101	CHP	2	823.980	-39.33	-13	Pass
824	834	0.101	CHP	/	/	/	/	/

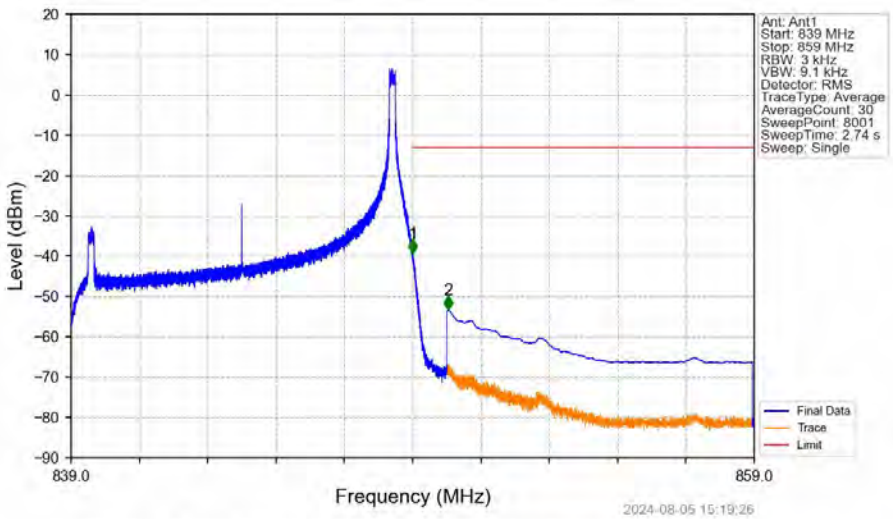
Band5_10MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



Band5_10MHz_QPSK_HCH_844MHz_RB_1_0_NTNV

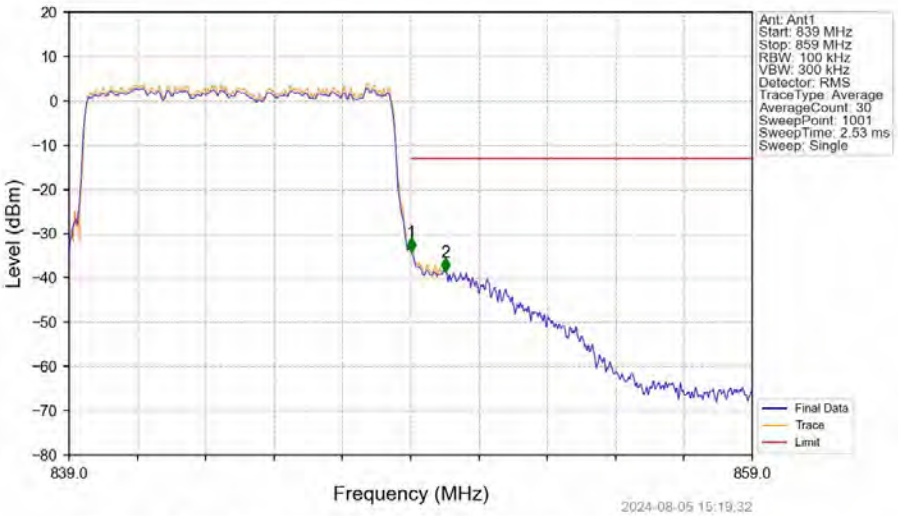


Band5_10MHz_QPSK_HCH_844MHz_RB_1_49_NTNV



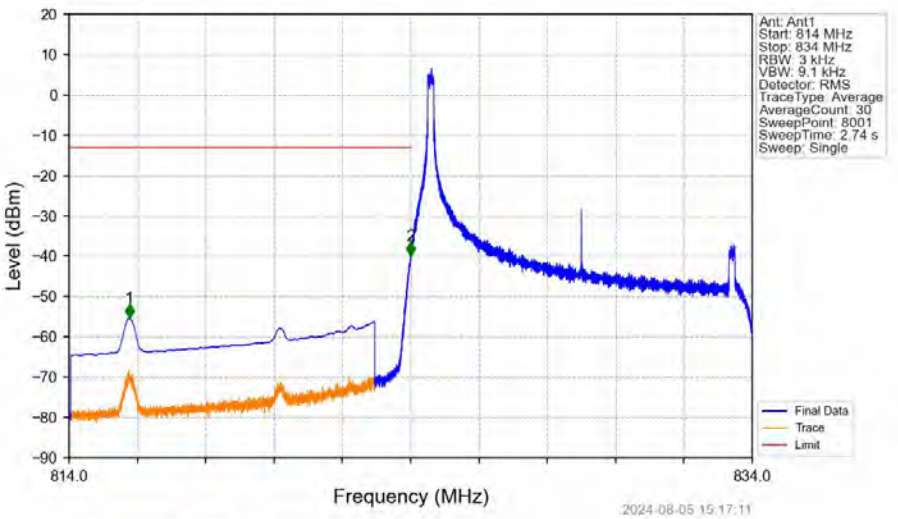
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.010	-39.28	-13	Pass
850	859	0.1	CHP	2	850.043	-53.36	-13	Pass

Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



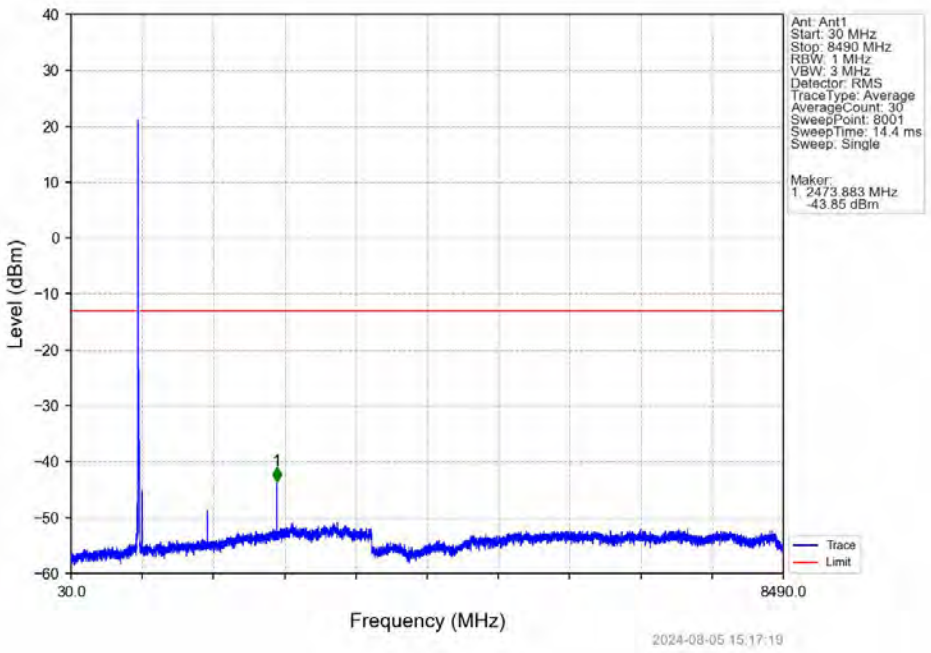
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.101	CHP	/	/	/	/	/
849	850	0.101	CHP	1	849.020	-34.05	-13	Pass
850	859	0.1	/	2	850.020	-38.57	-13	Pass

Band5_10MHz_16QAM_LCH_829MHz_RB_1_0_NTNV

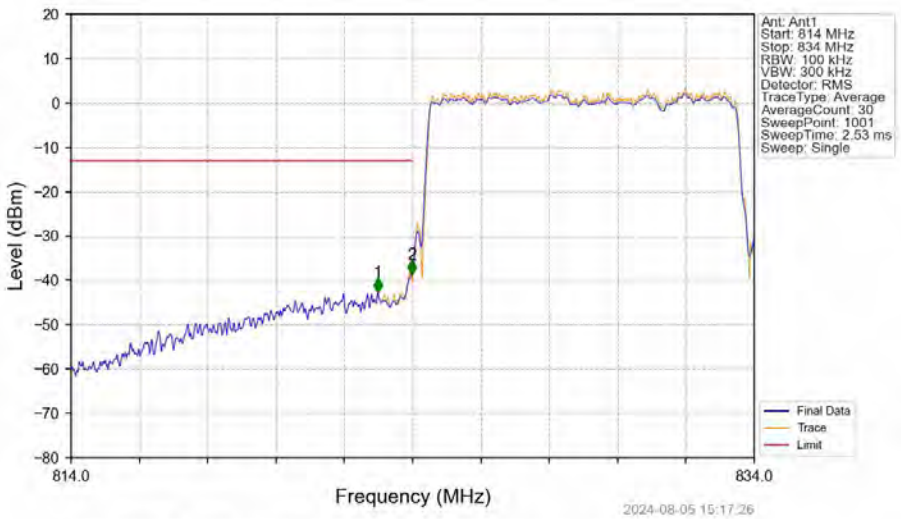


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	823	0.1	CHP	1	815.763	-55.33	-13	Pass
823	824	0.003	/	2	823.997	-39.78	-13	Pass
824	834	0.003	/	/	/	/	/	/

Band5_10MHz_16QAM_LCH_829MHz_RB_1_0_NTNV

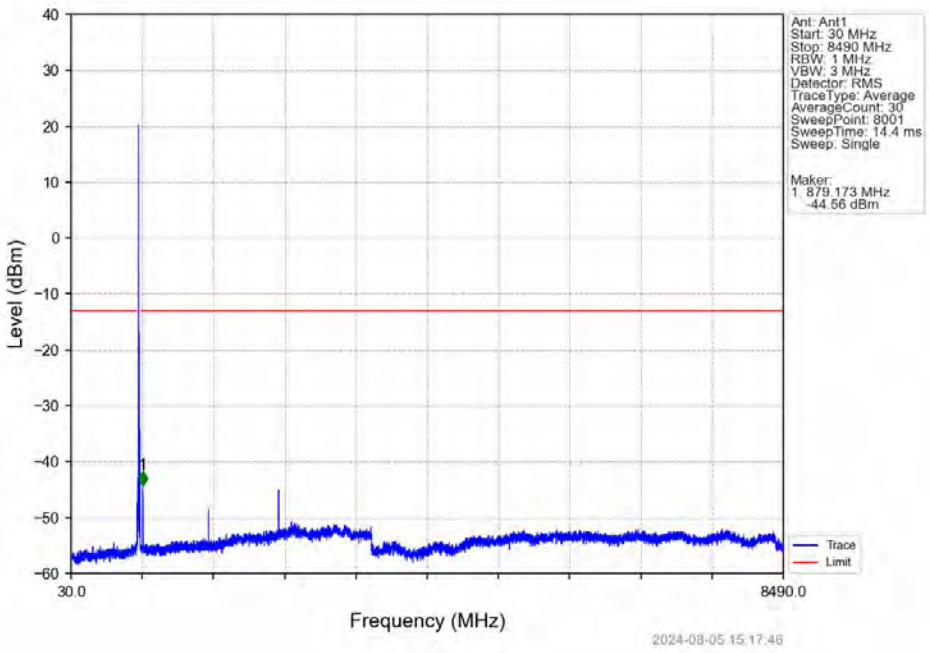


Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV

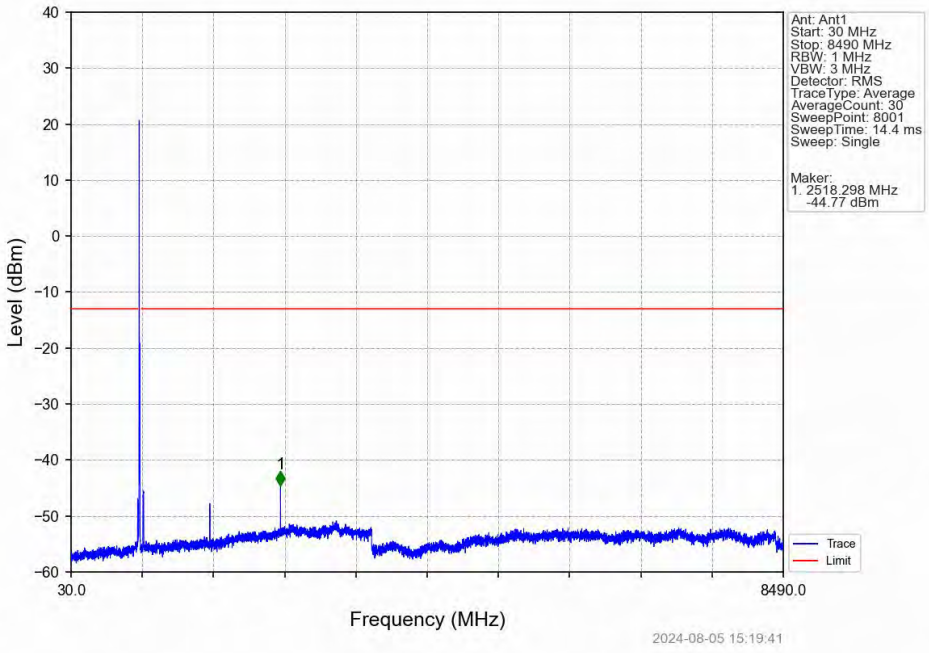


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	823	0.1	/	1	822.980	-42.53	-13	Pass
823	824	0.101	CHP	2	823.980	-38.68	-13	Pass
824	834	0.101	CHP	/	/	/	/	/

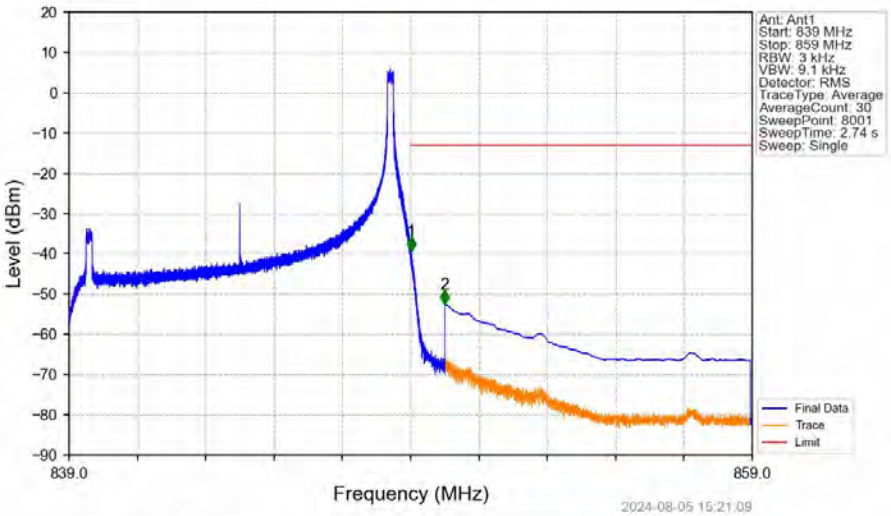
Band5_10MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV



Band5_10MHz_16QAM_HCH_844MHz_RB_1_0_NTNV

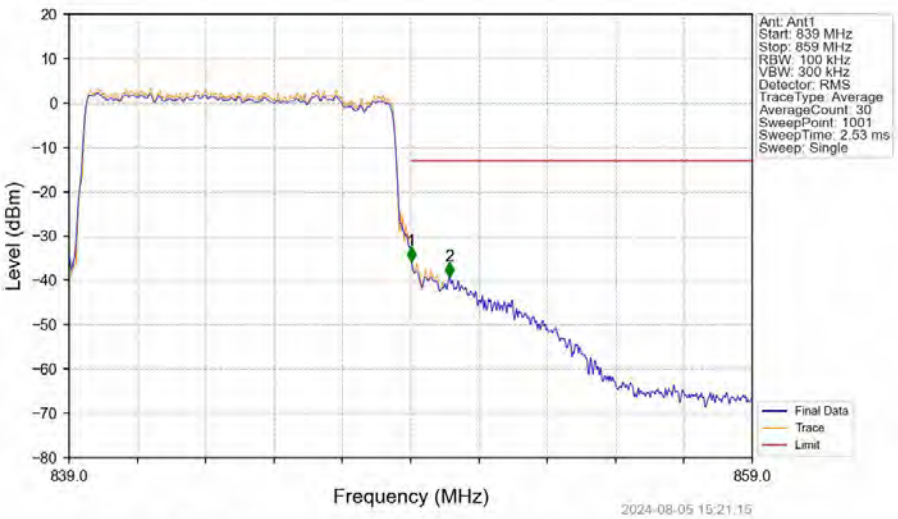


Band5_10MHz_16QAM_HCH_844MHz_RB_1_49_NTNV



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	849.015	-39.29	-13	Pass
850	859	0.1	CHP	2	850.003	-52.44	-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	CHP	/	/	/	/	/
849	850	0.101	CHP	1	849.020	-35.59	-13	Pass
850	859	0.1	/	2	850.140	-39.05	-13	Pass

7. Form731

7.1 Test Result

7.1.1 Form731_Power

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	0.1563	0.0555	ppm	1M11G7D	22H	21.94
5	1.4	824.7	848.3	0.1409	0.0377	ppm	1M12W7D	22H	21.49
5	3	825.5	847.5	0.1549	0.0526	ppm	2M76G7D	22H	21.90
5	3	825.5	847.5	0.1722	0.0422	ppm	2M77W7D	22H	22.36
5	5	826.5	846.5	0.1549	0.0527	ppm	4M56G7D	22H	21.90
5	5	826.5	846.5	0.1380	0.0487	ppm	4M57W7D	22H	21.40
5	10	829	844	0.1538	0.0561	ppm	9M07G7D	22H	21.87
5	10	829	844	0.1614	0.0287	ppm	9M10W7D	22H	22.08

7.1.2 Form731_ERP

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	0.0809	0.0555	ppm	1M11G7D	22H	19.08
5	1.4	824.7	848.3	0.0729	0.0377	ppm	1M12W7D	22H	18.63
5	3	825.5	847.5	0.0802	0.0526	ppm	2M76G7D	22H	19.04
5	3	825.5	847.5	0.0891	0.0422	ppm	2M77W7D	22H	19.50
5	5	826.5	846.5	0.0802	0.0527	ppm	4M56G7D	22H	19.04
5	5	826.5	846.5	0.0714	0.0487	ppm	4M57W7D	22H	18.54
5	10	829	844	0.0796	0.0561	ppm	9M07G7D	22H	19.01
5	10	829	844	0.0836	0.0287	ppm	9M10W7D	22H	19.22