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	22.63	-0.13	20.35	<=38.45	Pass
			2	22.70	-0.13	20.42	<=38.45	Pass
			5	22.10	-0.13	19.82	<=38.45	Pass
		3	0	22.17	-0.13	19.89	<=38.45	Pass
			2	22.21	-0.13	19.93	<=38.45	Pass
			3	22.17	-0.13	19.89	<=38.45	Pass
		6	0	21.22	-0.13	18.94	<=38.45	Pass
	836.5	1	0	22.05	-0.13	19.77	<=38.45	Pass
			2	22.11	-0.13	19.83	<=38.45	Pass
			5	22.02	-0.13	19.74	<=38.45	Pass
		3	0	22.10	-0.13	19.82	<=38.45	Pass
			2	22.14	-0.13	19.86	<=38.45	Pass
			3	22.09	-0.13	19.81	<=38.45	Pass
		6	0	21.15	-0.13	18.87	<=38.45	Pass
	848.3	1	0	22.01	-0.13	19.73	<=38.45	Pass
			2	22.09	-0.13	19.81	<=38.45	Pass
			5	22.00	-0.13	19.72	<=38.45	Pass
		3	0	22.12	-0.13	19.84	<=38.45	Pass
			2	22.14	-0.13	19.86	<=38.45	Pass
			3	22.10	-0.13	19.82	<=38.45	Pass
		6	0	21.15	-0.13	18.87	<=38.45	Pass
16QAM	824.7	1	0	21.17	-0.13	18.89	<=38.45	Pass
			2	21.22	-0.13	18.94	<=38.45	Pass
			5	21.15	-0.13	18.87	<=38.45	Pass
		3	0	21.28	-0.13	19.00	<=38.45	Pass
			2	21.29	-0.13	19.01	<=38.45	Pass
			3	21.27	-0.13	18.99	<=38.45	Pass
		6	0	20.12	-0.13	17.84	<=38.45	Pass
	836.5	1	0	21.22	-0.13	18.94	<=38.45	Pass
			2	21.32	-0.13	19.04	<=38.45	Pass
			5	21.21	-0.13	18.93	<=38.45	Pass
		3	0	21.14	-0.13	18.86	<=38.45	Pass
			2	21.16	-0.13	18.88	<=38.45	Pass
			3	21.16	-0.13	18.88	<=38.45	Pass
		6	0	20.09	-0.13	17.81	<=38.45	Pass
	848.3	1	0	21.04	-0.13	18.76	<=38.45	Pass
			2	21.14	-0.13	18.86	<=38.45	Pass
			5	21.03	-0.13	18.75	<=38.45	Pass
		3	0	21.32	-0.13	19.04	<=38.45	Pass
			2	21.34	-0.13	19.06	<=38.45	Pass
			3	21.30	-0.13	19.02	<=38.45	Pass
		6	0	20.10	-0.13	17.82	<=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	22.20	-0.13	19.92	<=38.45	Pass
			7	22.32	-0.13	20.04	<=38.45	Pass
			14	22.19	-0.13	19.91	<=38.45	Pass
		8	0	21.21	-0.13	18.93	<=38.45	Pass
			4	21.25	-0.13	18.97	<=38.45	Pass
			7	21.18	-0.13	18.90	<=38.45	Pass
		15	0	21.19	-0.13	18.91	<=38.45	Pass
	836.5	1	0	22.13	-0.13	19.85	<=38.45	Pass
			7	22.23	-0.13	19.95	<=38.45	Pass
			14	22.12	-0.13	19.84	<=38.45	Pass
		8	0	21.15	-0.13	18.87	<=38.45	Pass
			4	21.21	-0.13	18.93	<=38.45	Pass
			7	21.18	-0.13	18.90	<=38.45	Pass
		15	0	21.17	-0.13	18.89	<=38.45	Pass
	847.5	1	0	22.14	-0.13	19.86	<=38.45	Pass
			7	22.24	-0.13	19.96	<=38.45	Pass
			14	22.08	-0.13	19.80	<=38.45	Pass
		8	0	21.14	-0.13	18.86	<=38.45	Pass
			4	21.17	-0.13	18.89	<=38.45	Pass
			7	21.14	-0.13	18.86	<=38.45	Pass
		15	0	21.13	-0.13	18.85	<=38.45	Pass
16QAM	825.5	1	0	21.23	-0.13	18.95	<=38.45	Pass
			7	21.38	-0.13	19.10	<=38.45	Pass
			14	21.25	-0.13	18.97	<=38.45	Pass
		8	0	20.25	-0.13	17.97	<=38.45	Pass
			4	20.28	-0.13	18.00	<=38.45	Pass
			7	20.21	-0.13	17.93	<=38.45	Pass
		15	0	20.21	-0.13	17.93	<=38.45	Pass
	836.5	1	0	21.35	-0.13	19.07	<=38.45	Pass
			7	21.44	-0.13	19.16	<=38.45	Pass
			14	21.33	-0.13	19.05	<=38.45	Pass
		8	0	20.11	-0.13	17.83	<=38.45	Pass
			4	20.17	-0.13	17.89	<=38.45	Pass
			7	20.09	-0.13	17.81	<=38.45	Pass
		15	0	20.10	-0.13	17.82	<=38.45	Pass
	847.5	1	0	21.65	-0.13	19.37	<=38.45	Pass
			7	21.80	-0.13	19.52	<=38.45	Pass
			14	21.57	-0.13	19.29	<=38.45	Pass
		8	0	20.27	-0.13	17.99	<=38.45	Pass
			4	20.29	-0.13	18.01	<=38.45	Pass
			7	20.25	-0.13	17.97	<=38.45	Pass
		15	0	20.18	-0.13	17.90	<=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	22.09	-0.13	19.81	<=38.45	Pass

			13	22.21	-0.13	19.93	<=38.45	Pass
			24	22.07	-0.13	19.79	<=38.45	Pass
		12	0	21.16	-0.13	18.88	<=38.45	Pass
			6	21.19	-0.13	18.91	<=38.45	Pass
			13	21.13	-0.13	18.85	<=38.45	Pass
		25	0	21.16	-0.13	18.88	<=38.45	Pass
	836.5	1	0	21.99	-0.13	19.71	<=38.45	Pass
			13	22.08	-0.13	19.80	<=38.45	Pass
			24	22.01	-0.13	19.73	<=38.45	Pass
		12	0	21.13	-0.13	18.85	<=38.45	Pass
			6	21.18	-0.13	18.90	<=38.45	Pass
			13	21.13	-0.13	18.85	<=38.45	Pass
		25	0	21.15	-0.13	18.87	<=38.45	Pass
	846.5	1	0	22.04	-0.13	19.76	<=38.45	Pass
			13	22.17	-0.13	19.89	<=38.45	Pass
			24	22.01	-0.13	19.73	<=38.45	Pass
		12	0	21.10	-0.13	18.82	<=38.45	Pass
			6	21.15	-0.13	18.87	<=38.45	Pass
			13	21.08	-0.13	18.80	<=38.45	Pass
		25	0	21.10	-0.13	18.82	<=38.45	Pass
16QAM	826.5	1	0	21.20	-0.13	18.92	<=38.45	Pass
			13	21.31	-0.13	19.03	<=38.45	Pass
			24	21.16	-0.13	18.88	<=38.45	Pass
		12	0	20.12	-0.13	17.84	<=38.45	Pass
			6	20.18	-0.13	17.90	<=38.45	Pass
			13	20.12	-0.13	17.84	<=38.45	Pass
		25	0	20.15	-0.13	17.87	<=38.45	Pass
	836.5	1	0	21.27	-0.13	18.99	<=38.45	Pass
			13	21.41	-0.13	19.13	<=38.45	Pass
			24	21.29	-0.13	19.01	<=38.45	Pass
		12	0	20.16	-0.13	17.88	<=38.45	Pass
			6	20.21	-0.13	17.93	<=38.45	Pass
			13	20.13	-0.13	17.85	<=38.45	Pass
		25	0	20.11	-0.13	17.83	<=38.45	Pass
	846.5	1	0	20.90	-0.13	18.62	<=38.45	Pass
			13	21.02	-0.13	18.74	<=38.45	Pass
			24	20.87	-0.13	18.59	<=38.45	Pass
		12	0	20.08	-0.13	17.80	<=38.45	Pass
			6	20.15	-0.13	17.87	<=38.45	Pass
			13	20.12	-0.13	17.84	<=38.45	Pass
		25	0	20.11	-0.13	17.83	<=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	22.19	-0.13	19.91	<=38.45	Pass
			25	22.34	-0.13	20.06	<=38.45	Pass
			49	22.16	-0.13	19.88	<=38.45	Pass
		25	0	21.22	-0.13	18.94	<=38.45	Pass
			13	21.24	-0.13	18.96	<=38.45	Pass
			25	21.14	-0.13	18.86	<=38.45	Pass
		50	0	21.21	-0.13	18.93	<=38.45	Pass
	836.5	1	0	22.08	-0.13	19.80	<=38.45	Pass
			25	22.22	-0.13	19.94	<=38.45	Pass
			49	22.11	-0.13	19.83	<=38.45	Pass
		25	0	21.22	-0.13	18.94	<=38.45	Pass
			13	21.20	-0.13	18.92	<=38.45	Pass
			25	21.20	-0.13	18.92	<=38.45	Pass
		50	0	21.24	-0.13	18.96	<=38.45	Pass
	844	1	0	22.09	-0.13	19.81	<=38.45	Pass
			25	22.27	-0.13	19.99	<=38.45	Pass
			49	22.09	-0.13	19.81	<=38.45	Pass
		25	0	21.18	-0.13	18.90	<=38.45	Pass
			13	21.22	-0.13	18.94	<=38.45	Pass
			25	21.21	-0.13	18.93	<=38.45	Pass
		50	0	21.21	-0.13	18.93	<=38.45	Pass
16QAM	829	1	0	21.24	-0.13	18.96	<=38.45	Pass
			25	21.36	-0.13	19.08	<=38.45	Pass
			49	21.16	-0.13	18.88	<=38.45	Pass
		25	0	20.29	-0.13	18.01	<=38.45	Pass
			13	20.28	-0.13	18.00	<=38.45	Pass
			25	20.21	-0.13	17.93	<=38.45	Pass
		50	0	20.23	-0.13	17.95	<=38.45	Pass
	836.5	1	0	21.26	-0.13	18.98	<=38.45	Pass
			25	21.43	-0.13	19.15	<=38.45	Pass
			49	21.36	-0.13	19.08	<=38.45	Pass
		25	0	20.23	-0.13	17.95	<=38.45	Pass
			13	20.21	-0.13	17.93	<=38.45	Pass
			25	20.20	-0.13	17.92	<=38.45	Pass
		50	0	20.21	-0.13	17.93	<=38.45	Pass
	844	1	0	21.64	-0.13	19.36	<=38.45	Pass
			25	21.81	-0.13	19.53	<=38.45	Pass
			49	21.59	-0.13	19.31	<=38.45	Pass
		25	0	20.20	-0.13	17.92	<=38.45	Pass
			13	20.25	-0.13	17.97	<=38.45	Pass
			25	20.22	-0.13	17.94	<=38.45	Pass
		50	0	20.14	-0.13	17.86	<=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	-13.332	-0.0162	-2.5 to 2.5	Pass
					3.85	-5.364	-0.0065	-2.5 to 2.5	Pass
					4.43	-6.251	-0.0076	-2.5 to 2.5	Pass
				-30	3.85	-4.849	-0.0059	-2.5 to 2.5	Pass
				-20	3.85	-2.904	-0.0035	-2.5 to 2.5	Pass
				-10	3.85	-4.435	-0.0054	-2.5 to 2.5	Pass
				0	3.85	-18.797	-0.0228	-2.5 to 2.5	Pass
				10	3.85	-4.663	-0.0057	-2.5 to 2.5	Pass
				30	3.85	-4.992	-0.0061	-2.5 to 2.5	Pass
				40	3.85	-5.922	-0.0072	-2.5 to 2.5	Pass
				50	3.85	-4.649	-0.0056	-2.5 to 2.5	Pass
	836.5	6	0	20	3.27	-7.296	-0.0087	-2.5 to 2.5	Pass
					3.85	-8.698	-0.0104	-2.5 to 2.5	Pass
					4.43	-11.029	-0.0132	-2.5 to 2.5	Pass
				-30	3.85	-5.851	-0.0070	-2.5 to 2.5	Pass
				-20	3.85	-5.865	-0.0070	-2.5 to 2.5	Pass
				-10	3.85	-11.044	-0.0132	-2.5 to 2.5	Pass
				0	3.85	-7.911	-0.0095	-2.5 to 2.5	Pass
				10	3.85	-6.552	-0.0078	-2.5 to 2.5	Pass
				30	3.85	-6.266	-0.0075	-2.5 to 2.5	Pass
				40	3.85	-2.589	-0.0031	-2.5 to 2.5	Pass
				50	3.85	-8.969	-0.0107	-2.5 to 2.5	Pass
	848.3	6	0	20	3.27	-9.513	-0.0112	-2.5 to 2.5	Pass
					3.85	-8.812	-0.0104	-2.5 to 2.5	Pass
					4.43	-6.194	-0.0073	-2.5 to 2.5	Pass
				-30	3.85	-5.035	-0.0059	-2.5 to 2.5	Pass
				-20	3.85	-9.885	-0.0117	-2.5 to 2.5	Pass
				-10	3.85	-5.035	-0.0059	-2.5 to 2.5	Pass
				0	3.85	-6.838	-0.0081	-2.5 to 2.5	Pass
				10	3.85	-7.339	-0.0087	-2.5 to 2.5	Pass
				30	3.85	-8.440	-0.0099	-2.5 to 2.5	Pass
				40	3.85	-7.954	-0.0094	-2.5 to 2.5	Pass
				50	3.85	-9.613	-0.0113	-2.5 to 2.5	Pass
16QAM	824.7	6	0	20	3.27	-5.965	-0.0072	-2.5 to 2.5	Pass
					3.85	-5.307	-0.0064	-2.5 to 2.5	Pass
					4.43	-7.310	-0.0089	-2.5 to 2.5	Pass
				-30	3.85	-9.198	-0.0112	-2.5 to 2.5	Pass
				-20	3.85	-3.891	-0.0047	-2.5 to 2.5	Pass
				-10	3.85	-4.306	-0.0052	-2.5 to 2.5	Pass
				0	3.85	-3.920	-0.0048	-2.5 to 2.5	Pass
				10	3.85	-6.738	-0.0082	-2.5 to 2.5	Pass
				30	3.85	-9.384	-0.0114	-2.5 to 2.5	Pass
				40	3.85	-4.234	-0.0051	-2.5 to 2.5	Pass
				50	3.85	-0.544	-0.0007	-2.5 to 2.5	Pass
	836.5	6	0	20	3.27	-4.506	-0.0054	-2.5 to 2.5	Pass
					3.85	-10.514	-0.0126	-2.5 to 2.5	Pass

					4.43	-7.896	-0.0094	-2.5 to 2.5	Pass
				-30	3.85	-7.997	-0.0096	-2.5 to 2.5	Pass
				-20	3.85	-13.232	-0.0158	-2.5 to 2.5	Pass
				-10	3.85	-7.524	-0.0090	-2.5 to 2.5	Pass
				0	3.85	-6.495	-0.0078	-2.5 to 2.5	Pass
				10	3.85	-9.856	-0.0118	-2.5 to 2.5	Pass
				30	3.85	-2.646	-0.0032	-2.5 to 2.5	Pass
				40	3.85	-2.947	-0.0035	-2.5 to 2.5	Pass
				50	3.85	-7.539	-0.0090	-2.5 to 2.5	Pass
	848.3	6	0	20	3.27	-6.466	-0.0076	-2.5 to 2.5	Pass
					3.85	-6.223	-0.0073	-2.5 to 2.5	Pass
					4.43	-4.907	-0.0058	-2.5 to 2.5	Pass
				-30	3.85	-3.691	-0.0044	-2.5 to 2.5	Pass
				-20	3.85	-3.262	-0.0038	-2.5 to 2.5	Pass
				-10	3.85	-2.975	-0.0035	-2.5 to 2.5	Pass
				0	3.85	-6.309	-0.0074	-2.5 to 2.5	Pass
				10	3.85	-5.322	-0.0063	-2.5 to 2.5	Pass
				30	3.85	-3.991	-0.0047	-2.5 to 2.5	Pass
				40	3.85	-4.406	-0.0052	-2.5 to 2.5	Pass
				50	3.85	-3.304	-0.0039	-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	-11.630	-0.0141	-2.5 to 2.5	Pass
					3.85	-7.524	-0.0091	-2.5 to 2.5	Pass
					4.43	-4.692	-0.0057	-2.5 to 2.5	Pass
				-30	3.85	-3.734	-0.0045	-2.5 to 2.5	Pass
				-20	3.85	-3.233	-0.0039	-2.5 to 2.5	Pass
				-10	3.85	-4.077	-0.0049	-2.5 to 2.5	Pass
				0	3.85	-6.666	-0.0081	-2.5 to 2.5	Pass
				10	3.85	-4.277	-0.0052	-2.5 to 2.5	Pass
				30	3.85	-5.007	-0.0061	-2.5 to 2.5	Pass
				40	3.85	-4.621	-0.0056	-2.5 to 2.5	Pass
				50	3.85	-3.376	-0.0041	-2.5 to 2.5	Pass
	836.5	15	0	20	3.27	-3.934	-0.0047	-2.5 to 2.5	Pass
					3.85	-3.004	-0.0036	-2.5 to 2.5	Pass
					4.43	-3.147	-0.0038	-2.5 to 2.5	Pass
				-30	3.85	-1.173	-0.0014	-2.5 to 2.5	Pass
				-20	3.85	-6.766	-0.0081	-2.5 to 2.5	Pass
				-10	3.85	-3.090	-0.0037	-2.5 to 2.5	Pass
				0	3.85	-8.254	-0.0099	-2.5 to 2.5	Pass
				10	3.85	-3.576	-0.0043	-2.5 to 2.5	Pass
				30	3.85	-2.975	-0.0036	-2.5 to 2.5	Pass
				40	3.85	-2.561	-0.0031	-2.5 to 2.5	Pass
				50	3.85	-5.522	-0.0066	-2.5 to 2.5	Pass
	847.5	15	0	20	3.27	-2.074	-0.0024	-2.5 to 2.5	Pass
					3.85	-10.557	-0.0125	-2.5 to 2.5	Pass
					4.43	-0.973	-0.0011	-2.5 to 2.5	Pass
				-30	3.85	-6.480	-0.0076	-2.5 to 2.5	Pass
				-20	3.85	-6.366	-0.0075	-2.5 to 2.5	Pass
				-10	3.85	-4.134	-0.0049	-2.5 to 2.5	Pass
				0	3.85	-7.396	-0.0087	-2.5 to 2.5	Pass

				10	3.85	-11.673	-0.0138	-2.5 to 2.5	Pass
				30	3.85	-5.937	-0.0070	-2.5 to 2.5	Pass
				40	3.85	-3.963	-0.0047	-2.5 to 2.5	Pass
				50	3.85	-5.021	-0.0059	-2.5 to 2.5	Pass
16QAM	825.5	15	0	20	3.27	-4.320	-0.0052	-2.5 to 2.5	Pass
					3.85	-1.860	-0.0023	-2.5 to 2.5	Pass
					4.43	-5.536	-0.0067	-2.5 to 2.5	Pass
				-30	3.85	-2.933	-0.0036	-2.5 to 2.5	Pass
				-20	3.85	-0.772	-0.0009	-2.5 to 2.5	Pass
				-10	3.85	-4.134	-0.0050	-2.5 to 2.5	Pass
				0	3.85	-2.804	-0.0034	-2.5 to 2.5	Pass
				10	3.85	-5.751	-0.0070	-2.5 to 2.5	Pass
				30	3.85	-4.406	-0.0053	-2.5 to 2.5	Pass
				40	3.85	-1.473	-0.0018	-2.5 to 2.5	Pass
				50	3.85	-3.433	-0.0042	-2.5 to 2.5	Pass
	836.5	15	0	20	3.27	-3.004	-0.0036	-2.5 to 2.5	Pass
					3.85	-9.956	-0.0119	-2.5 to 2.5	Pass
					4.43	-2.460	-0.0029	-2.5 to 2.5	Pass
				-30	3.85	-0.186	-0.0002	-2.5 to 2.5	Pass
				-20	3.85	-3.762	-0.0045	-2.5 to 2.5	Pass
				-10	3.85	-7.911	-0.0095	-2.5 to 2.5	Pass
				0	3.85	-4.764	-0.0057	-2.5 to 2.5	Pass
				10	3.85	-3.476	-0.0042	-2.5 to 2.5	Pass
				30	3.85	-8.111	-0.0097	-2.5 to 2.5	Pass
				40	3.85	-2.804	-0.0034	-2.5 to 2.5	Pass
				50	3.85	-2.875	-0.0034	-2.5 to 2.5	Pass
	847.5	15	0	20	3.27	-7.281	-0.0086	-2.5 to 2.5	Pass
					3.85	-6.366	-0.0075	-2.5 to 2.5	Pass
					4.43	-9.041	-0.0107	-2.5 to 2.5	Pass
				-30	3.85	-5.779	-0.0068	-2.5 to 2.5	Pass
				-20	3.85	-7.954	-0.0094	-2.5 to 2.5	Pass
				-10	3.85	-6.824	-0.0081	-2.5 to 2.5	Pass
				0	3.85	-4.621	-0.0055	-2.5 to 2.5	Pass
				10	3.85	-3.476	-0.0041	-2.5 to 2.5	Pass
				30	3.85	-6.881	-0.0081	-2.5 to 2.5	Pass
				40	3.85	-8.798	-0.0104	-2.5 to 2.5	Pass
				50	3.85	-9.627	-0.0114	-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	-9.999	-0.0121	-2.5 to 2.5	Pass
					3.85	-7.782	-0.0094	-2.5 to 2.5	Pass
					4.43	-5.751	-0.0070	-2.5 to 2.5	Pass
				-30	3.85	-9.885	-0.0120	-2.5 to 2.5	Pass
				-20	3.85	-3.963	-0.0048	-2.5 to 2.5	Pass
				-10	3.85	-5.922	-0.0072	-2.5 to 2.5	Pass
				0	3.85	-4.206	-0.0051	-2.5 to 2.5	Pass
				10	3.85	-4.706	-0.0057	-2.5 to 2.5	Pass
				30	3.85	-4.463	-0.0054	-2.5 to 2.5	Pass
				40	3.85	-5.865	-0.0071	-2.5 to 2.5	Pass
				50	3.85	-5.951	-0.0072	-2.5 to 2.5	Pass
	836.5	25	0	20	3.27	-0.958	-0.0011	-2.5 to 2.5	Pass

					3.85	-8.039	-0.0096	-2.5 to 2.5	Pass
					4.43	-6.766	-0.0081	-2.5 to 2.5	Pass
				-30	3.85	-4.678	-0.0056	-2.5 to 2.5	Pass
				-20	3.85	-7.210	-0.0086	-2.5 to 2.5	Pass
				-10	3.85	-8.426	-0.0101	-2.5 to 2.5	Pass
				0	3.85	-7.167	-0.0086	-2.5 to 2.5	Pass
				10	3.85	-2.117	-0.0025	-2.5 to 2.5	Pass
				30	3.85	-9.012	-0.0108	-2.5 to 2.5	Pass
				40	3.85	-5.980	-0.0071	-2.5 to 2.5	Pass
				50	3.85	-5.665	-0.0068	-2.5 to 2.5	Pass
	846.5	25	0		3.27	-1.702	-0.0020	-2.5 to 2.5	Pass
				20	3.85	-3.777	-0.0045	-2.5 to 2.5	Pass
					4.43	-1.602	-0.0019	-2.5 to 2.5	Pass
				-30	3.85	-2.861	-0.0034	-2.5 to 2.5	Pass
				-20	3.85	-4.578	-0.0054	-2.5 to 2.5	Pass
				-10	3.85	-4.892	-0.0058	-2.5 to 2.5	Pass
				0	3.85	-8.039	-0.0095	-2.5 to 2.5	Pass
				10	3.85	-10.629	-0.0126	-2.5 to 2.5	Pass
				30	3.85	-2.389	-0.0028	-2.5 to 2.5	Pass
				40	3.85	-5.236	-0.0062	-2.5 to 2.5	Pass
				50	3.85	0.401	0.0005	-2.5 to 2.5	Pass
16QAM	826.5	25	0		3.27	-5.493	-0.0066	-2.5 to 2.5	Pass
				20	3.85	-2.933	-0.0035	-2.5 to 2.5	Pass
					4.43	-7.353	-0.0089	-2.5 to 2.5	Pass
				-30	3.85	-5.965	-0.0072	-2.5 to 2.5	Pass
				-20	3.85	-6.838	-0.0083	-2.5 to 2.5	Pass
				-10	3.85	-5.050	-0.0061	-2.5 to 2.5	Pass
				0	3.85	-4.921	-0.0060	-2.5 to 2.5	Pass
				10	3.85	-5.264	-0.0064	-2.5 to 2.5	Pass
				30	3.85	-3.533	-0.0043	-2.5 to 2.5	Pass
				40	3.85	-5.808	-0.0070	-2.5 to 2.5	Pass
				50	3.85	-5.736	-0.0069	-2.5 to 2.5	Pass
	836.5	25	0		3.27	-2.747	-0.0033	-2.5 to 2.5	Pass
				20	3.85	-5.136	-0.0061	-2.5 to 2.5	Pass
					4.43	-2.260	-0.0027	-2.5 to 2.5	Pass
				-30	3.85	-2.775	-0.0033	-2.5 to 2.5	Pass
				-20	3.85	-9.642	-0.0115	-2.5 to 2.5	Pass
				-10	3.85	-4.163	-0.0050	-2.5 to 2.5	Pass
				0	3.85	-6.094	-0.0073	-2.5 to 2.5	Pass
				10	3.85	-0.057	-0.0001	-2.5 to 2.5	Pass
				30	3.85	-3.591	-0.0043	-2.5 to 2.5	Pass
				40	3.85	-6.452	-0.0077	-2.5 to 2.5	Pass
				50	3.85	-0.243	-0.0003	-2.5 to 2.5	Pass
	846.5	25	0		3.27	-9.141	-0.0108	-2.5 to 2.5	Pass
				20	3.85	-2.661	-0.0031	-2.5 to 2.5	Pass
					4.43	-4.349	-0.0051	-2.5 to 2.5	Pass
				-30	3.85	-6.566	-0.0078	-2.5 to 2.5	Pass
				-20	3.85	-6.208	-0.0073	-2.5 to 2.5	Pass
				-10	3.85	-3.462	-0.0041	-2.5 to 2.5	Pass
				0	3.85	-4.792	-0.0057	-2.5 to 2.5	Pass
				10	3.85	-7.024	-0.0083	-2.5 to 2.5	Pass
				30	3.85	-5.751	-0.0068	-2.5 to 2.5	Pass
				40	3.85	-2.246	-0.0027	-2.5 to 2.5	Pass
				50	3.85	-5.550	-0.0066	-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	-6.723	-0.0081	-2.5 to 2.5	Pass
					3.85	-7.896	-0.0095	-2.5 to 2.5	Pass
					4.43	-6.280	-0.0076	-2.5 to 2.5	Pass
				-30	3.85	-7.911	-0.0095	-2.5 to 2.5	Pass
				-20	3.85	-7.439	-0.0090	-2.5 to 2.5	Pass
				-10	3.85	-7.181	-0.0087	-2.5 to 2.5	Pass
				0	3.85	-7.195	-0.0087	-2.5 to 2.5	Pass
				10	3.85	-4.749	-0.0057	-2.5 to 2.5	Pass
				30	3.85	-7.553	-0.0091	-2.5 to 2.5	Pass
				40	3.85	-7.524	-0.0091	-2.5 to 2.5	Pass
				50	3.85	-5.908	-0.0071	-2.5 to 2.5	Pass
	836.5	50	0	20	3.27	-6.151	-0.0074	-2.5 to 2.5	Pass
					3.85	-3.133	-0.0037	-2.5 to 2.5	Pass
					4.43	-4.649	-0.0056	-2.5 to 2.5	Pass
				-30	3.85	-6.337	-0.0076	-2.5 to 2.5	Pass
				-20	3.85	-6.409	-0.0077	-2.5 to 2.5	Pass
				-10	3.85	-6.781	-0.0081	-2.5 to 2.5	Pass
				0	3.85	-6.366	-0.0076	-2.5 to 2.5	Pass
				10	3.85	-8.726	-0.0104	-2.5 to 2.5	Pass
				30	3.85	-4.478	-0.0054	-2.5 to 2.5	Pass
				40	3.85	-8.512	-0.0102	-2.5 to 2.5	Pass
				50	3.85	-6.523	-0.0078	-2.5 to 2.5	Pass
	844	50	0	20	3.27	-4.020	-0.0048	-2.5 to 2.5	Pass
					3.85	-5.550	-0.0066	-2.5 to 2.5	Pass
					4.43	-4.578	-0.0054	-2.5 to 2.5	Pass
				-30	3.85	-5.322	-0.0063	-2.5 to 2.5	Pass
				-20	3.85	-2.232	-0.0026	-2.5 to 2.5	Pass
				-10	3.85	-4.749	-0.0056	-2.5 to 2.5	Pass
				0	3.85	-4.935	-0.0058	-2.5 to 2.5	Pass
				10	3.85	-2.947	-0.0035	-2.5 to 2.5	Pass
				30	3.85	-8.211	-0.0097	-2.5 to 2.5	Pass
				40	3.85	-3.190	-0.0038	-2.5 to 2.5	Pass
				50	3.85	-5.665	-0.0067	-2.5 to 2.5	Pass
16QAM	829	50	0	20	3.27	-5.450	-0.0066	-2.5 to 2.5	Pass
					3.85	-6.223	-0.0075	-2.5 to 2.5	Pass
					4.43	-5.550	-0.0067	-2.5 to 2.5	Pass
				-30	3.85	-5.980	-0.0072	-2.5 to 2.5	Pass
				-20	3.85	-5.722	-0.0069	-2.5 to 2.5	Pass
				-10	3.85	-6.595	-0.0080	-2.5 to 2.5	Pass
				0	3.85	-8.311	-0.0100	-2.5 to 2.5	Pass
				10	3.85	-5.178	-0.0062	-2.5 to 2.5	Pass
				30	3.85	-7.124	-0.0086	-2.5 to 2.5	Pass
				40	3.85	-6.208	-0.0075	-2.5 to 2.5	Pass
				50	3.85	-3.519	-0.0042	-2.5 to 2.5	Pass
	836.5	50	0	20	3.27	-7.038	-0.0084	-2.5 to 2.5	Pass
					3.85	-6.166	-0.0074	-2.5 to 2.5	Pass
					4.43	-6.323	-0.0076	-2.5 to 2.5	Pass
				-30	3.85	-7.052	-0.0084	-2.5 to 2.5	Pass
				-20	3.85	-4.678	-0.0056	-2.5 to 2.5	Pass
				-10	3.85	-6.180	-0.0074	-2.5 to 2.5	Pass
				0	3.85	-3.376	-0.0040	-2.5 to 2.5	Pass

				10	3.85	-2.403	-0.0029	-2.5 to 2.5	Pass
				30	3.85	-5.579	-0.0067	-2.5 to 2.5	Pass
				40	3.85	-6.995	-0.0084	-2.5 to 2.5	Pass
				50	3.85	-6.080	-0.0073	-2.5 to 2.5	Pass
	844	50	0	20	3.27	-6.738	-0.0080	-2.5 to 2.5	Pass
					3.85	-5.708	-0.0068	-2.5 to 2.5	Pass
					4.43	-7.353	-0.0087	-2.5 to 2.5	Pass
				-30	3.85	-4.306	-0.0051	-2.5 to 2.5	Pass
				-20	3.85	-5.522	-0.0065	-2.5 to 2.5	Pass
				-10	3.85	-8.183	-0.0097	-2.5 to 2.5	Pass
				0	3.85	-7.138	-0.0085	-2.5 to 2.5	Pass
				10	3.85	-6.437	-0.0076	-2.5 to 2.5	Pass
				30	3.85	-5.293	-0.0063	-2.5 to 2.5	Pass
				40	3.85	-8.712	-0.0103	-2.5 to 2.5	Pass
				50	3.85	-4.950	-0.0059	-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

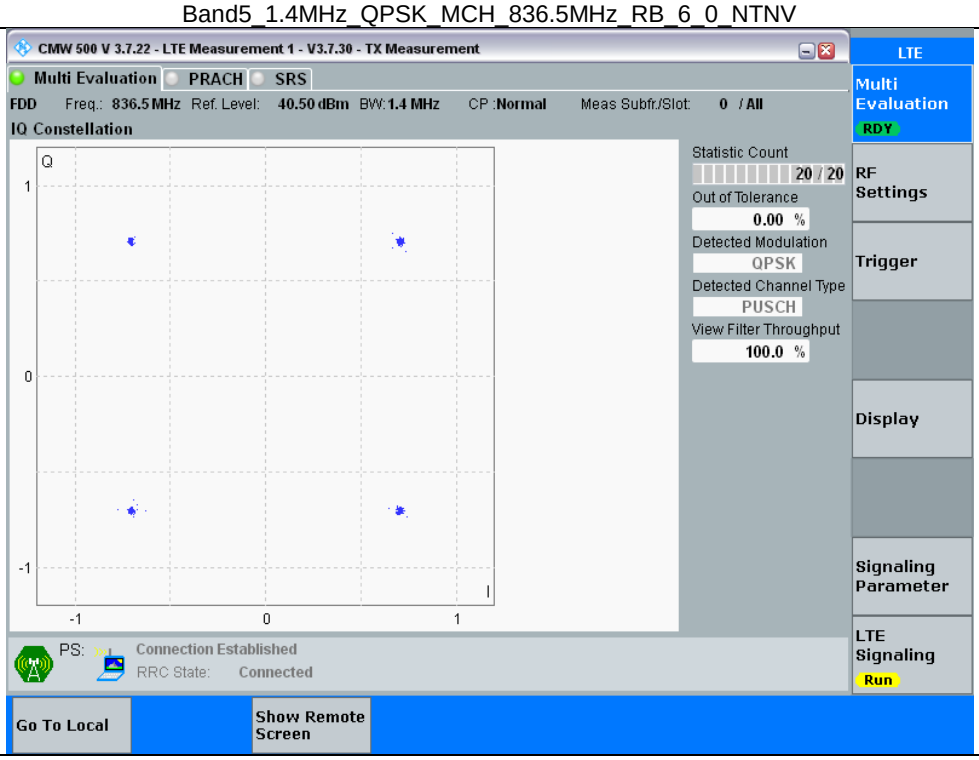
Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	

QPSK	836.5	50	0	Refer To Test Graph	Pass
16QAM	836.5	50	0	Refer To Test Graph	Pass

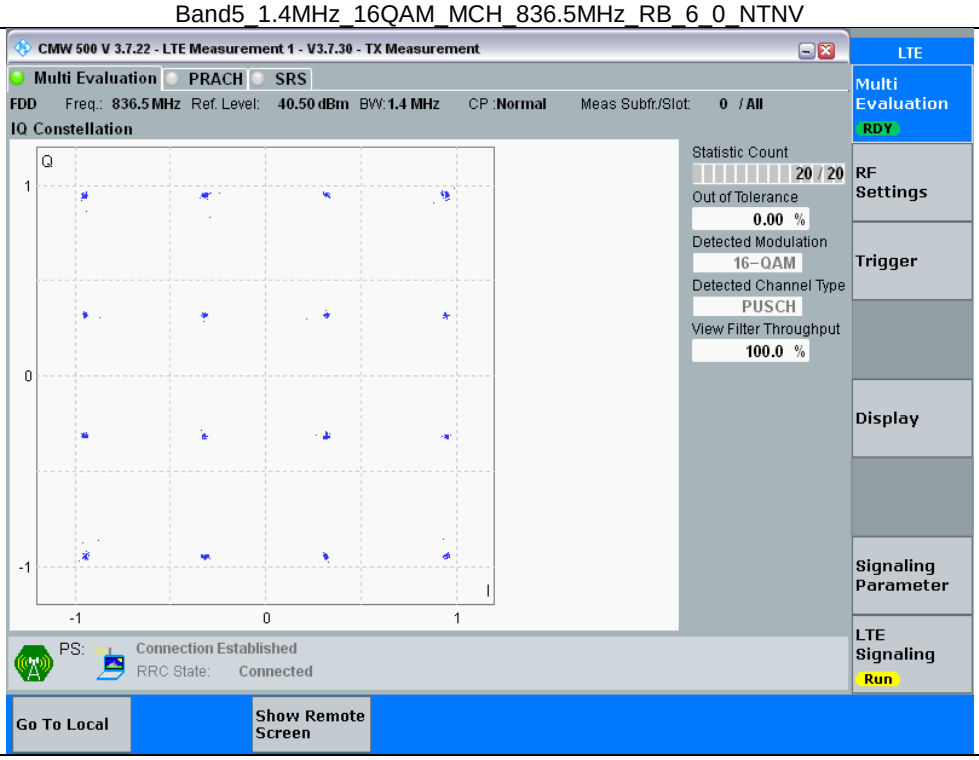
3.2 Test Graph

3.2.1 B5_1.4MHz

Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV

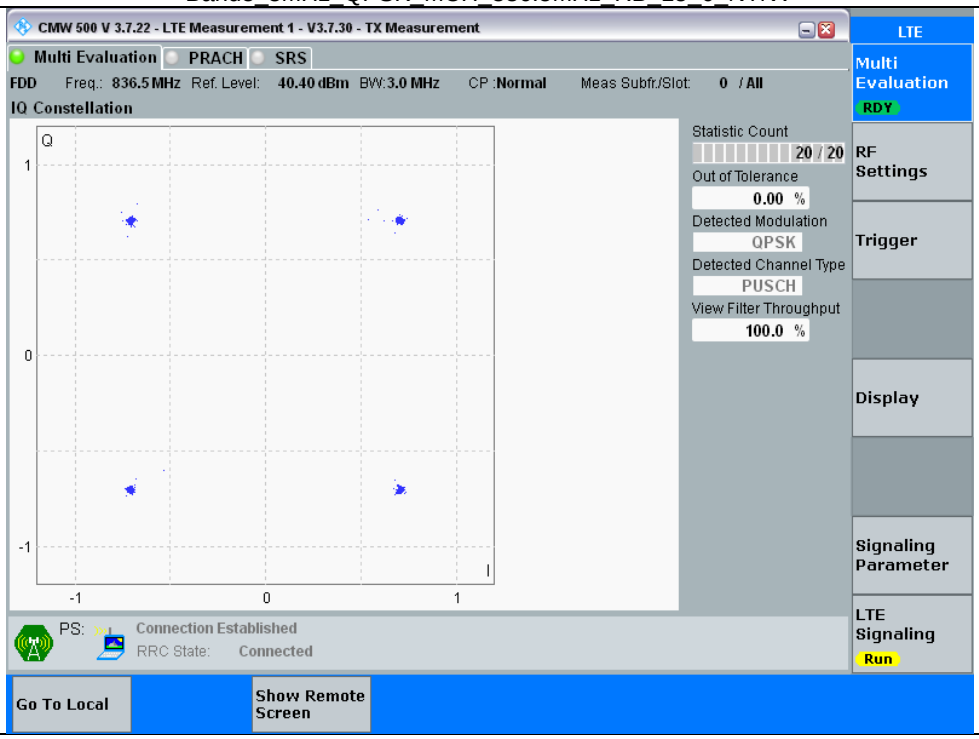


Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV

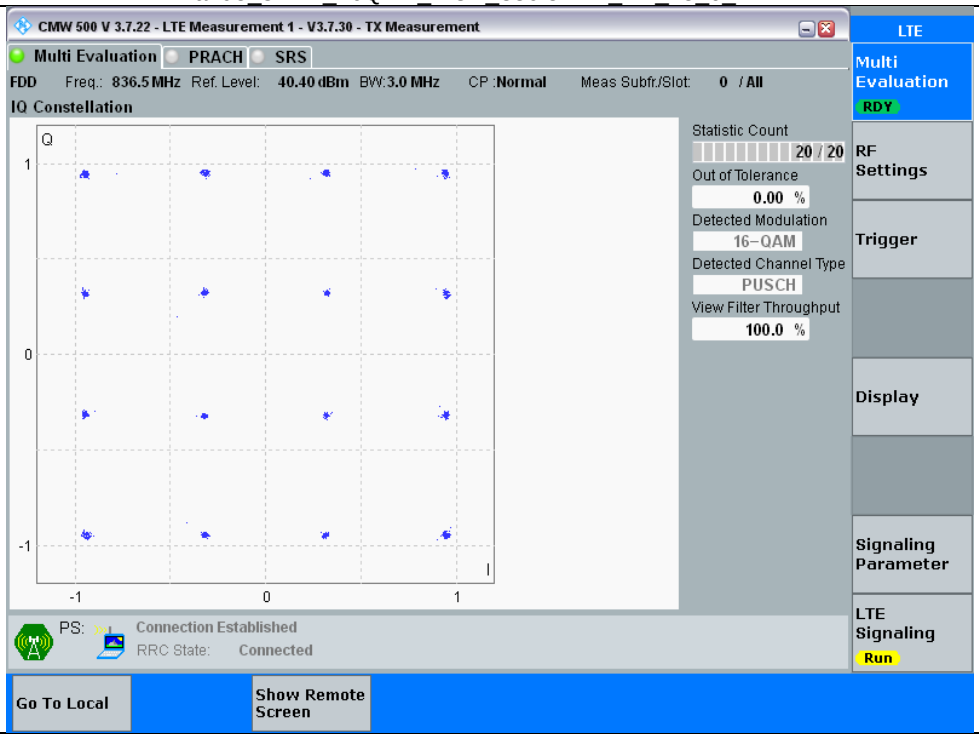


3.2.2 B5_3MHz

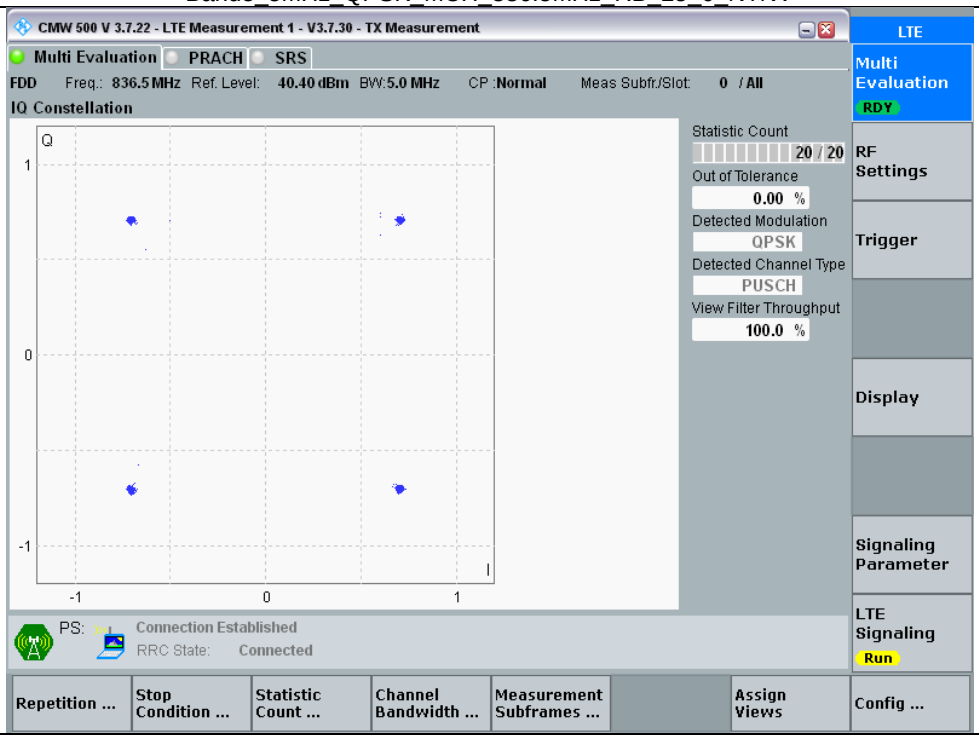
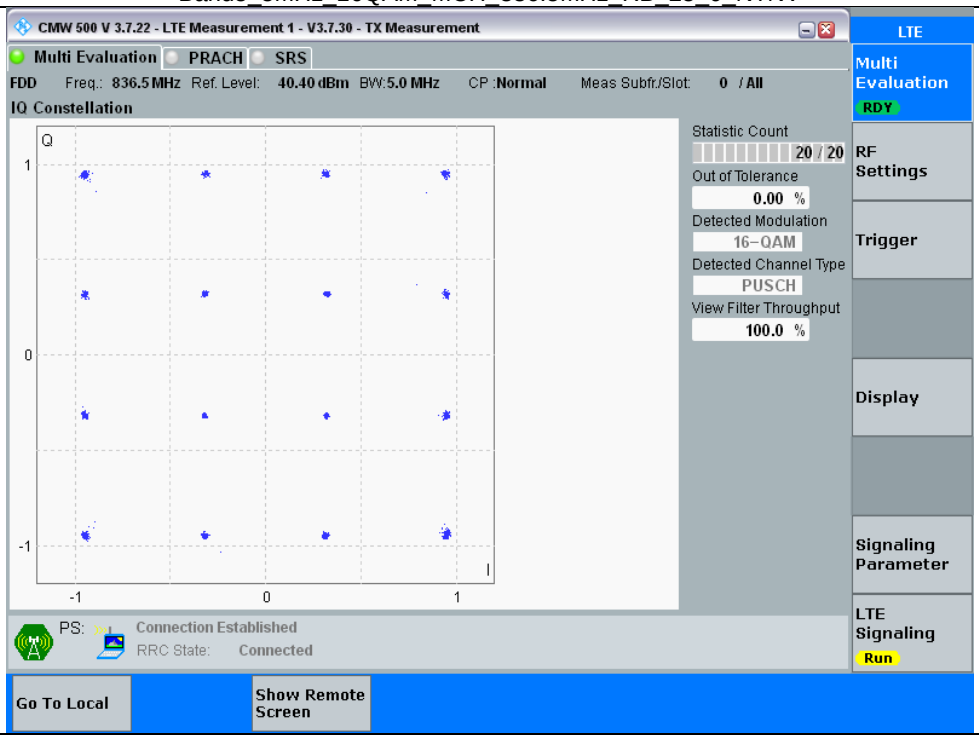
Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



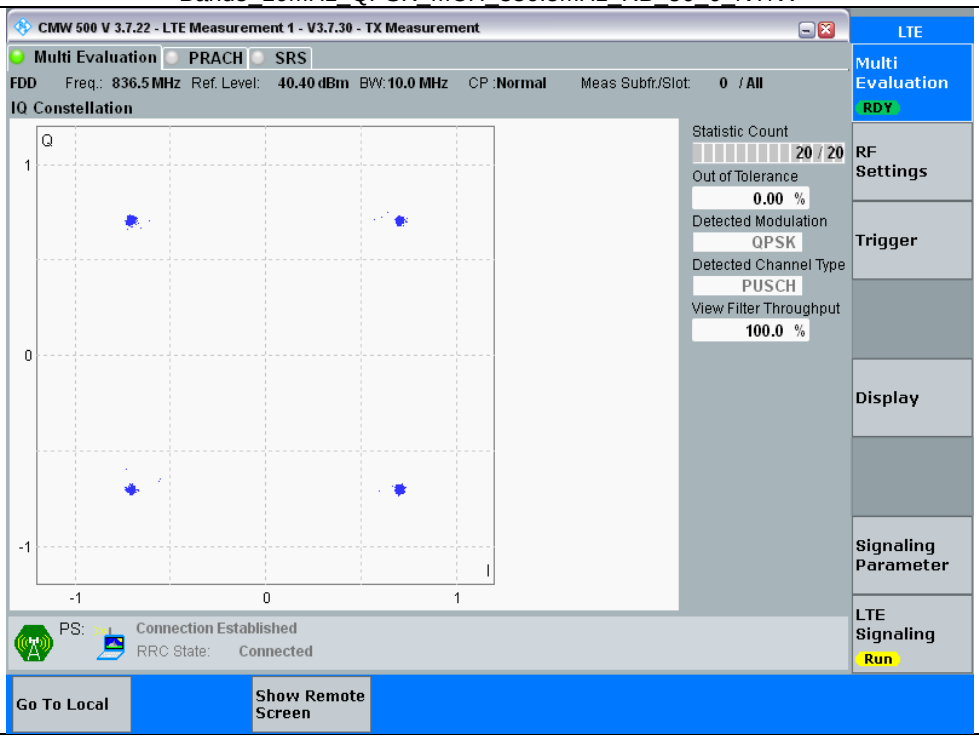
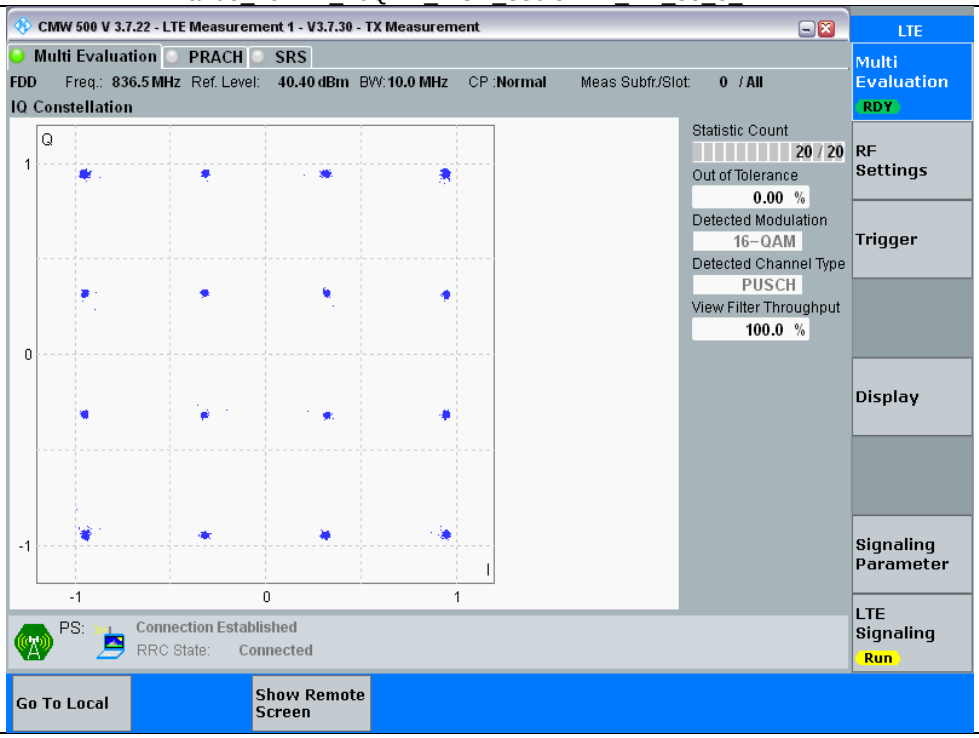
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



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	1.103	/	Pass
		836.5	6	0	1.116	/	Pass
		848.3	6	0	1.108	/	Pass
	16QAM	824.7	6	0	1.118	/	Pass
		836.5	6	0	1.105	/	Pass
		848.3	6	0	1.105	/	Pass
3	QPSK	825.5	15	0	2.729	/	Pass
		836.5	15	0	2.731	/	Pass
		847.5	15	0	2.717	/	Pass
	16QAM	825.5	15	0	2.725	/	Pass
		836.5	15	0	2.718	/	Pass
		847.5	15	0	2.722	/	Pass
5	QPSK	826.5	25	0	4.569	/	Pass
		836.5	25	0	4.560	/	Pass
		846.5	25	0	4.575	/	Pass
	16QAM	826.5	25	0	4.611	/	Pass
		836.5	25	0	4.583	/	Pass
		846.5	25	0	4.559	/	Pass
10	QPSK	829	50	0	9.063	/	Pass
		836.5	50	0	9.076	/	Pass
		844	50	0	9.067	/	Pass
	16QAM	829	50	0	9.089	/	Pass
		836.5	50	0	9.068	/	Pass
		844	50	0	9.063	/	Pass

4.1.2 Band5_XDB

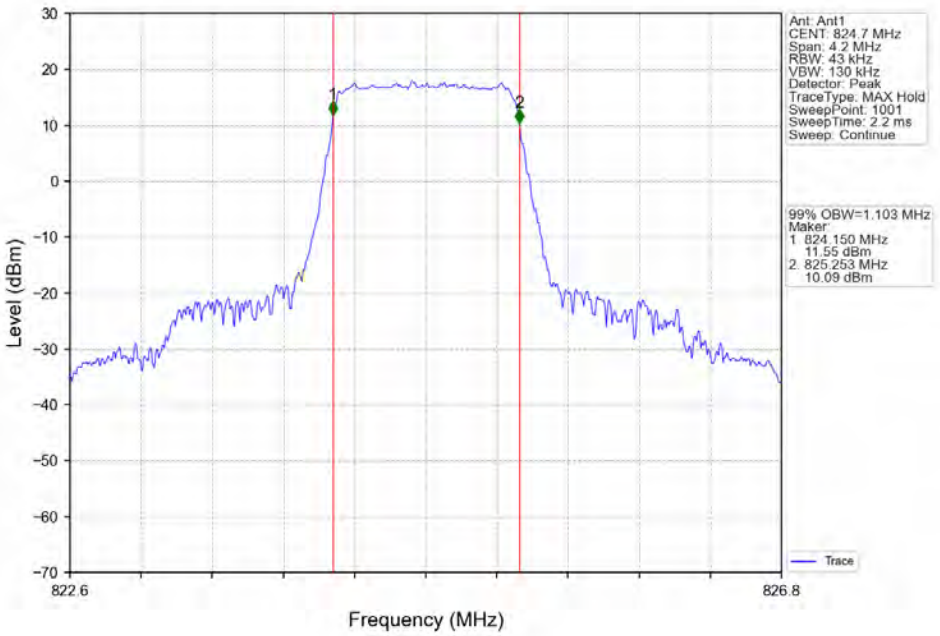
Band: 5 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.324	/	Pass
		836.5	6	0	1.319	/	Pass
		848.3	6	0	1.323	/	Pass
	16QAM	824.7	6	0	1.338	/	Pass
		836.5	6	0	1.319	/	Pass
		848.3	6	0	1.304	/	Pass
3	QPSK	825.5	15	0	2.988	/	Pass
		836.5	15	0	3.017	/	Pass
		847.5	15	0	3.008	/	Pass
	16QAM	825.5	15	0	3.006	/	Pass
		836.5	15	0	3.001	/	Pass
		847.5	15	0	2.987	/	Pass
5	QPSK	826.5	25	0	5.277	/	Pass
		836.5	25	0	5.254	/	Pass
		846.5	25	0	5.329	/	Pass

	16QAM	826.5	25	0	5.315	/	Pass
		836.5	25	0	5.213	/	Pass
		846.5	25	0	5.248	/	Pass
10	QPSK	829	50	0	10.292	/	Pass
		836.5	50	0	10.181	/	Pass
		844	50	0	10.455	/	Pass
	16QAM	829	50	0	10.246	/	Pass
		836.5	50	0	10.303	/	Pass
		844	50	0	10.219	/	Pass

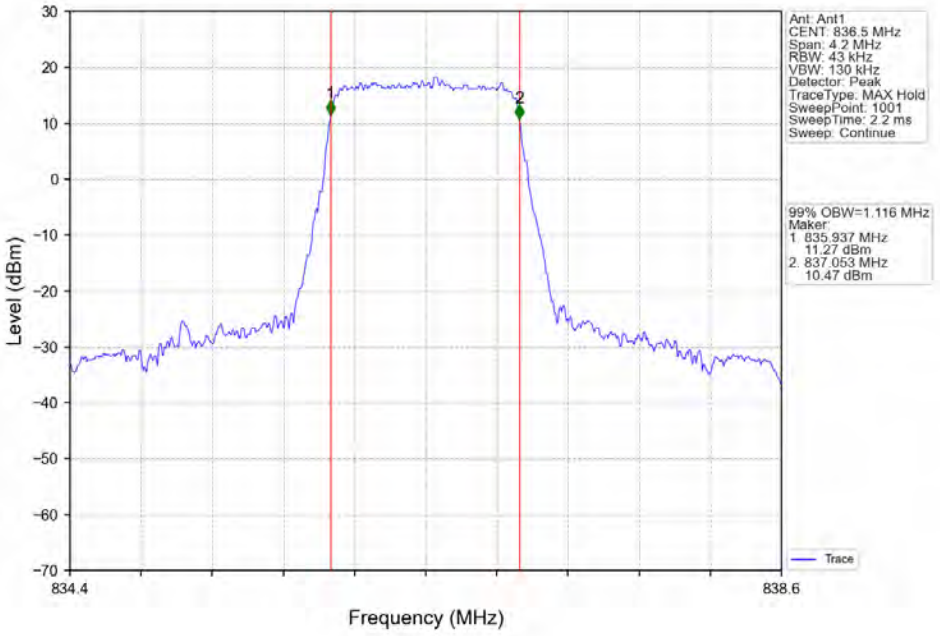
4.2 Test Graph

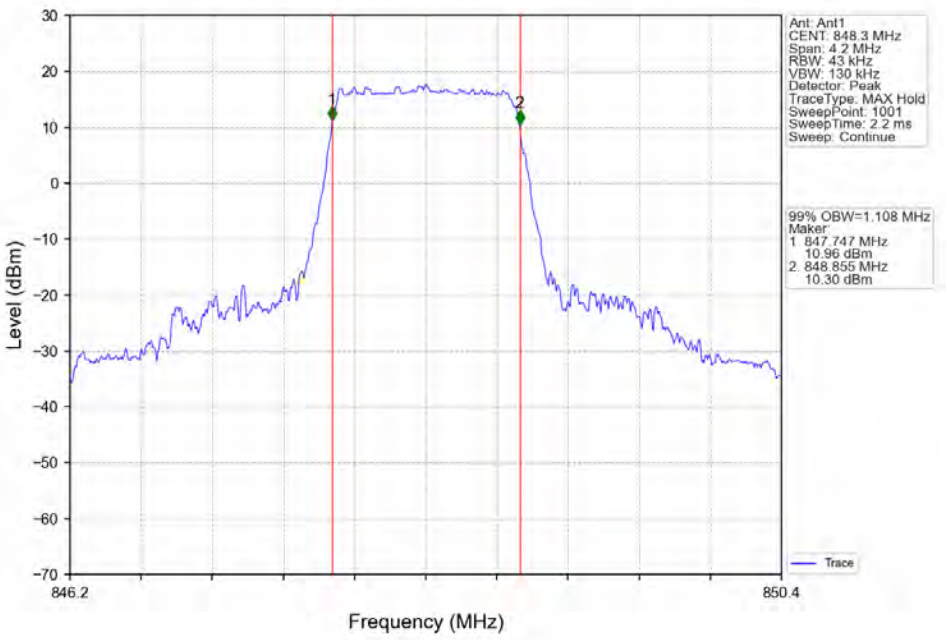
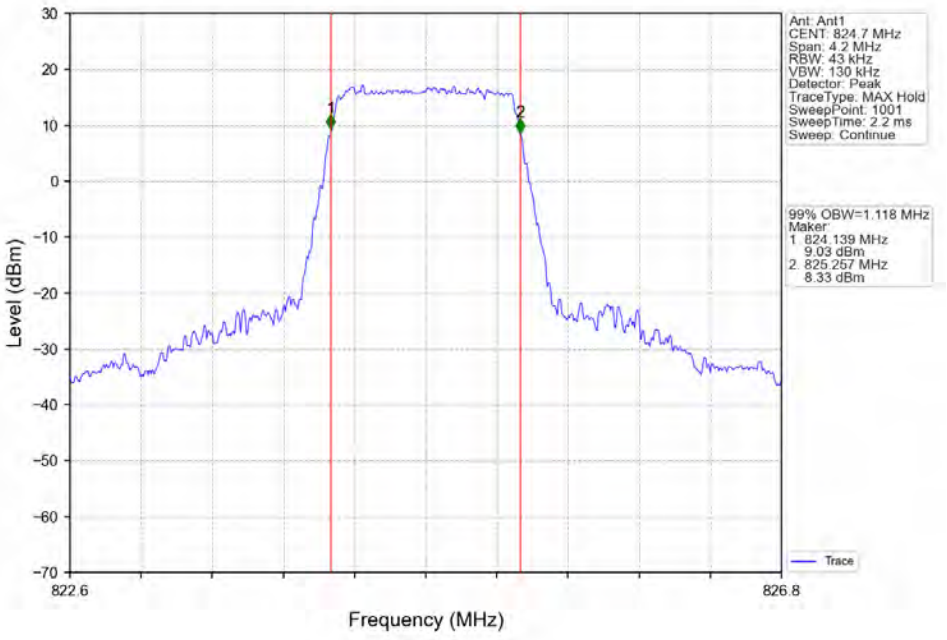
4.2.1 Band5_OBW

Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV

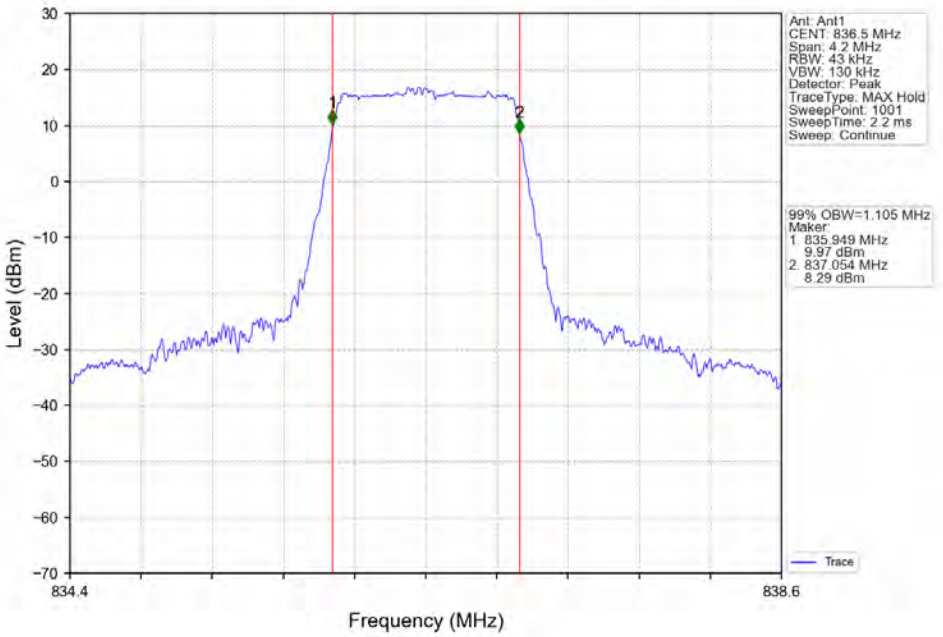


Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV

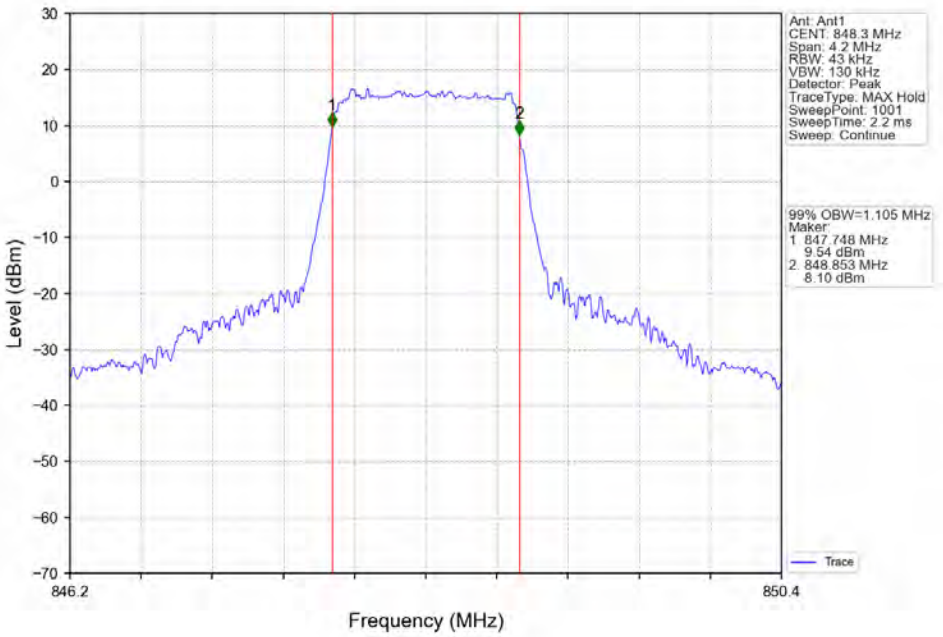


Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV

Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV


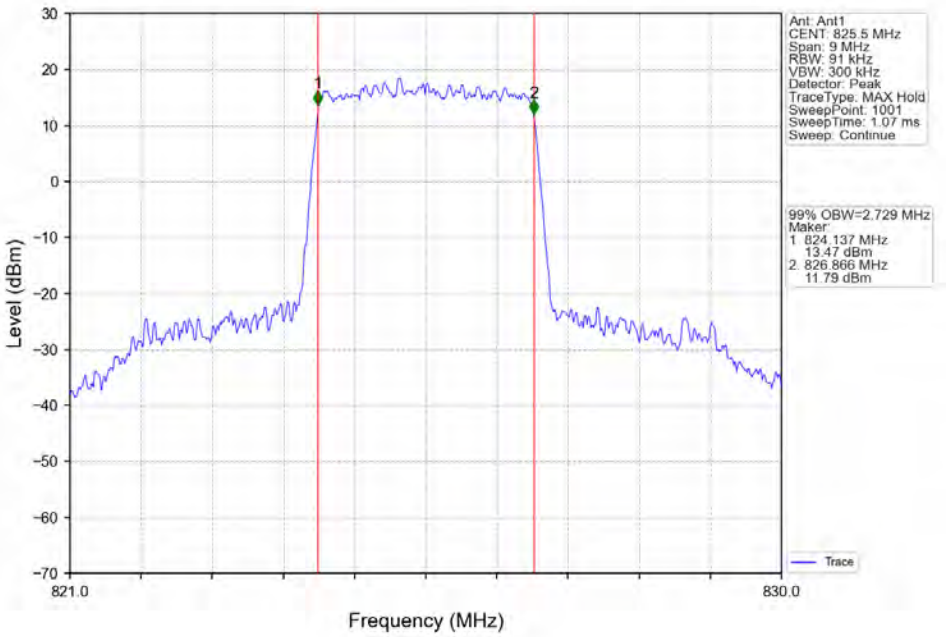
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



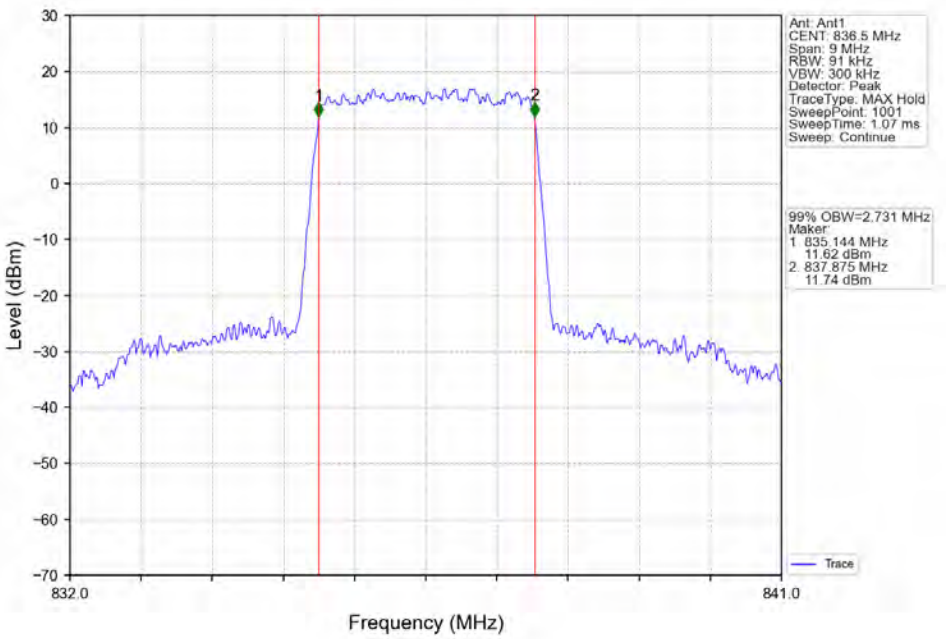
Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



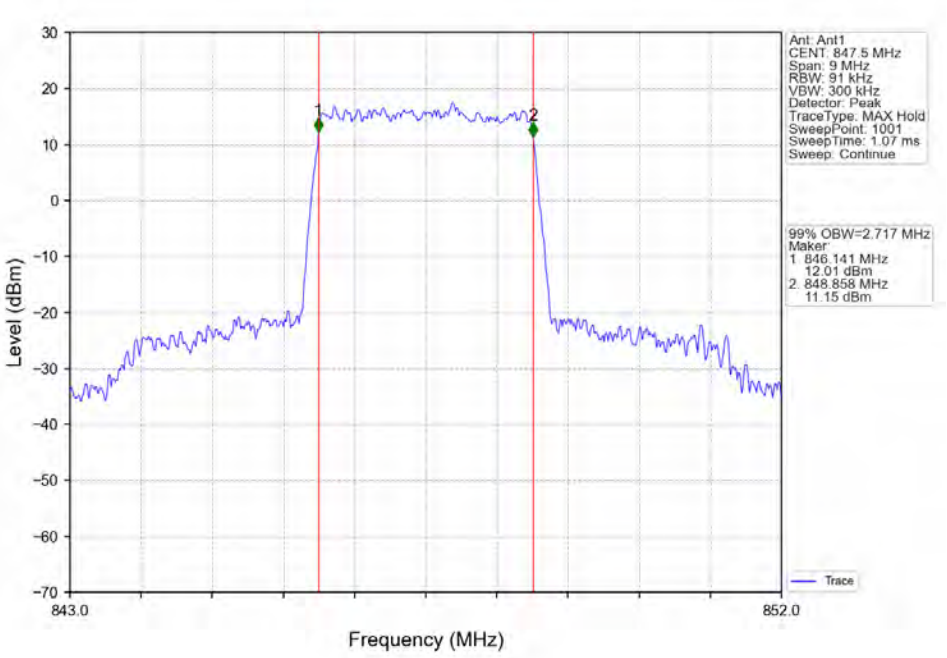
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



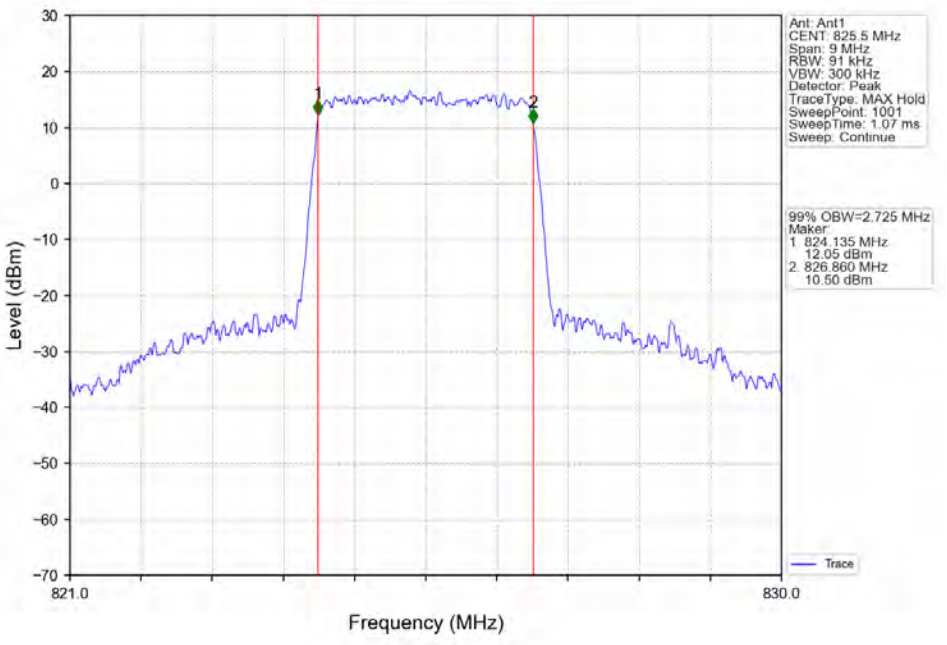
Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



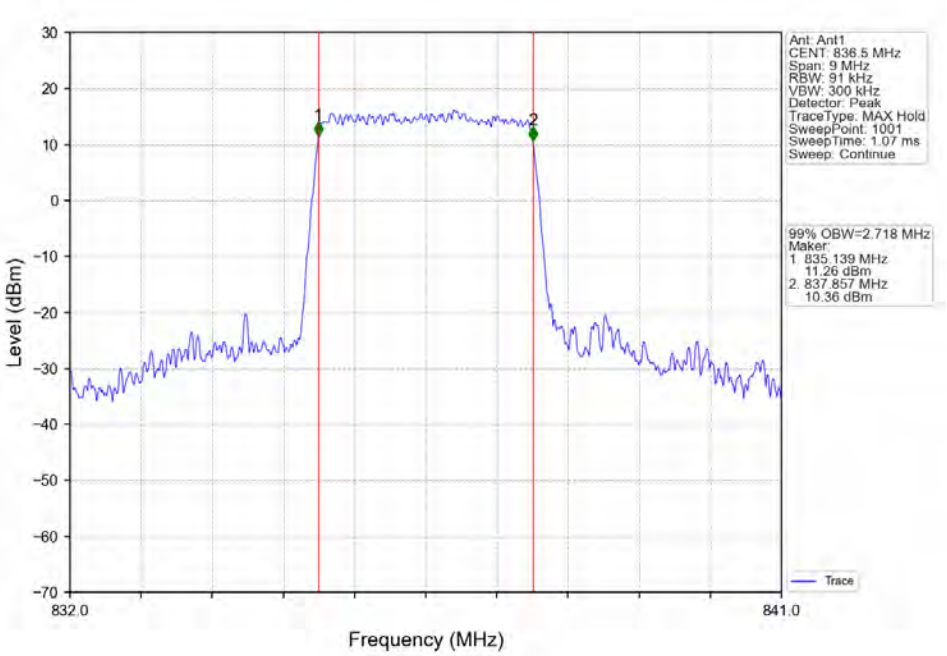
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



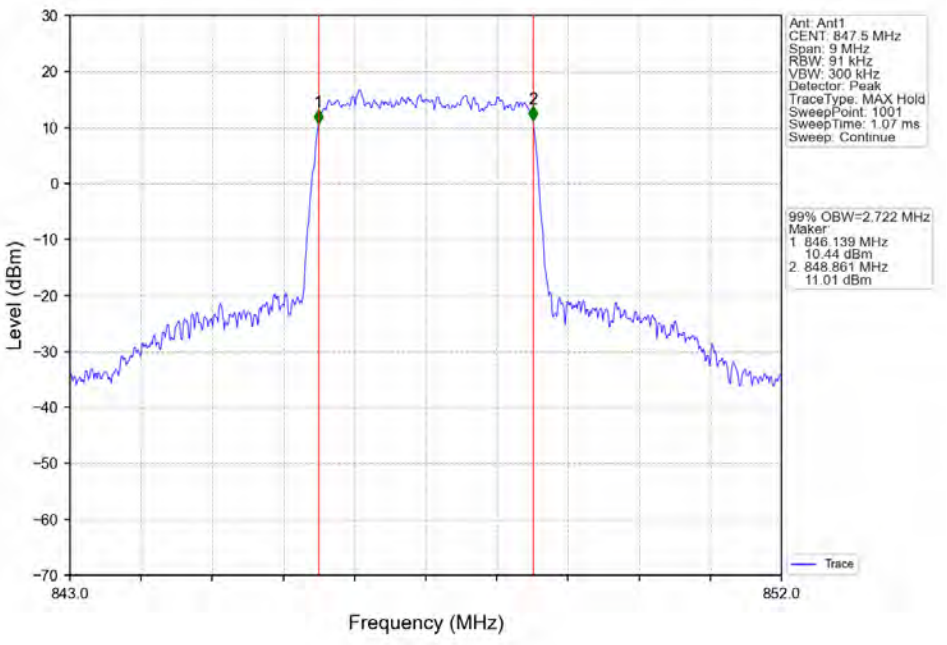
Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



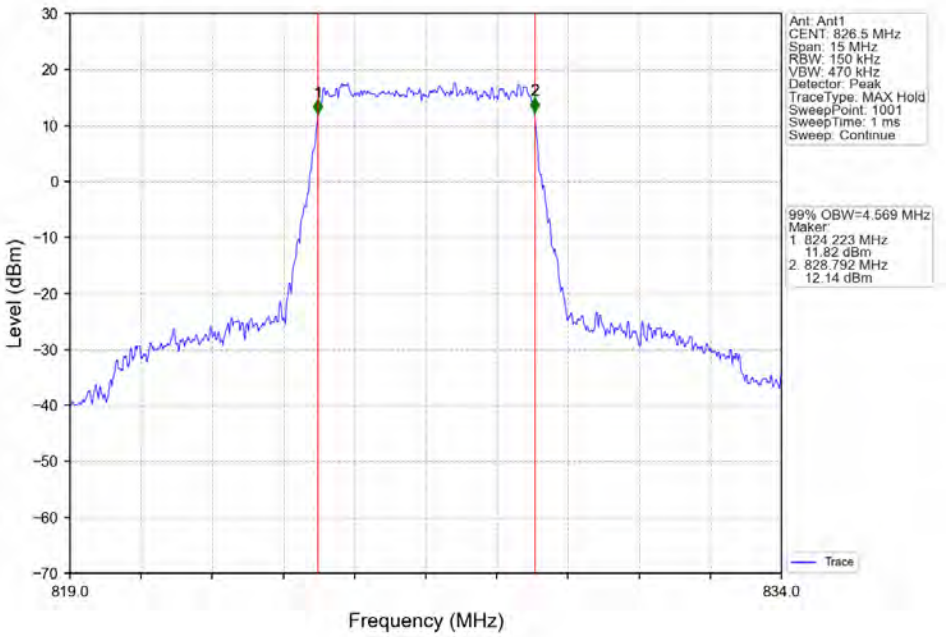
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



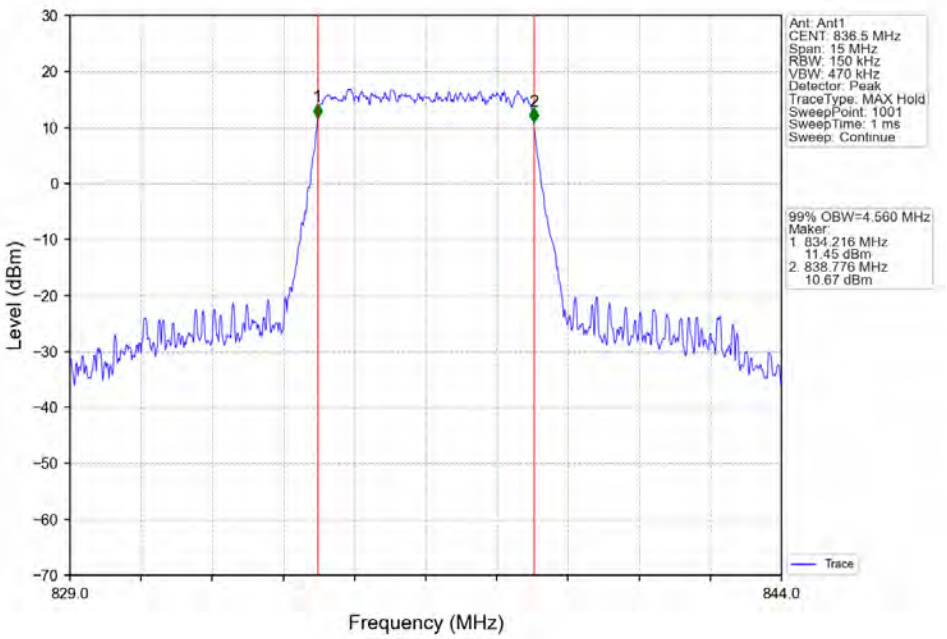
Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



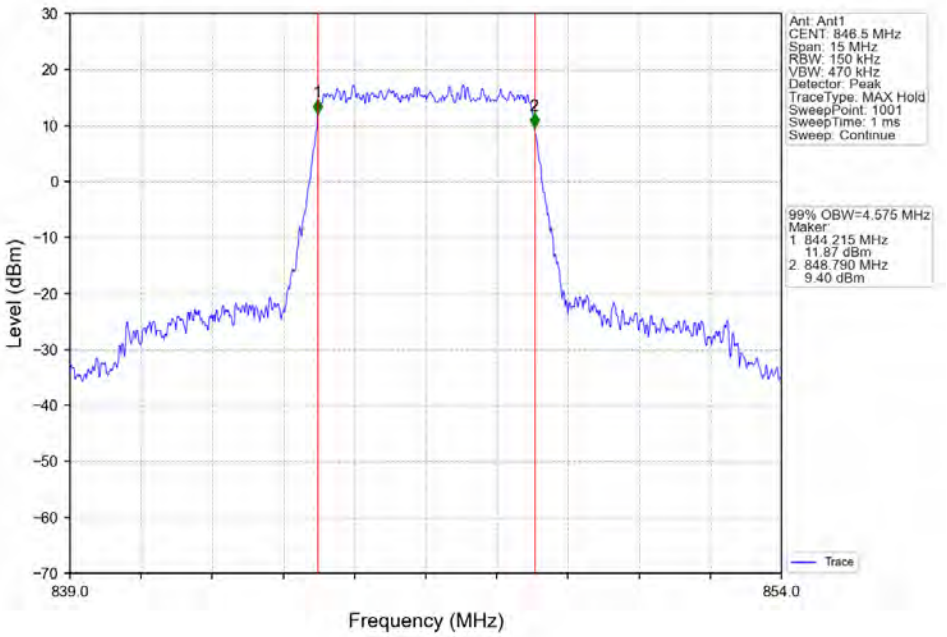
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



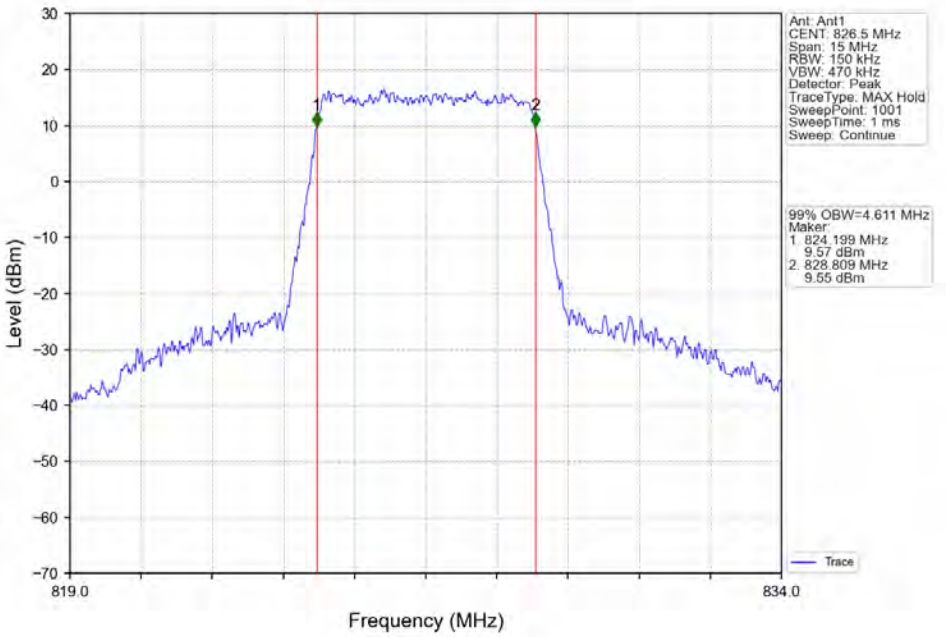
Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



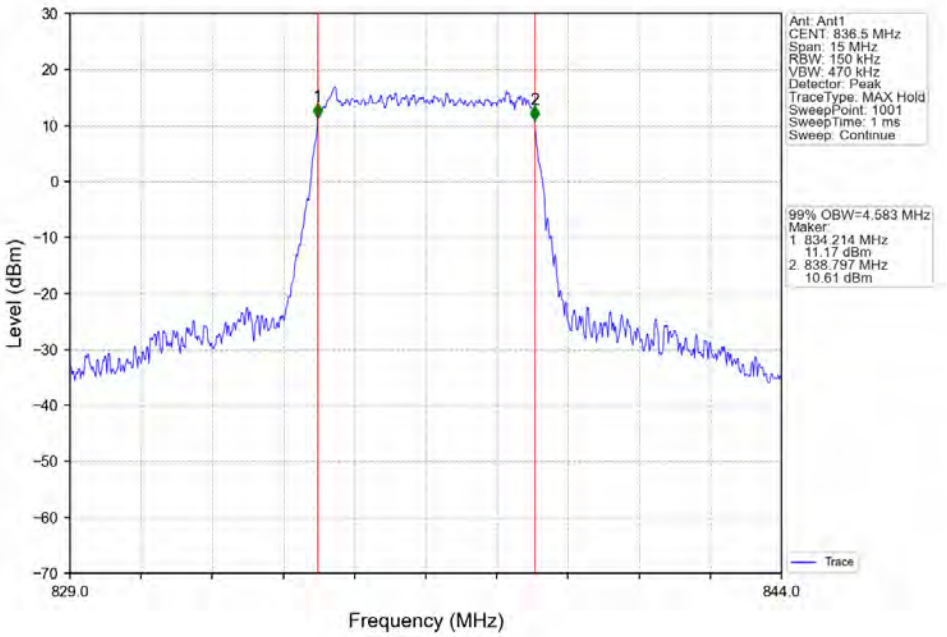
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



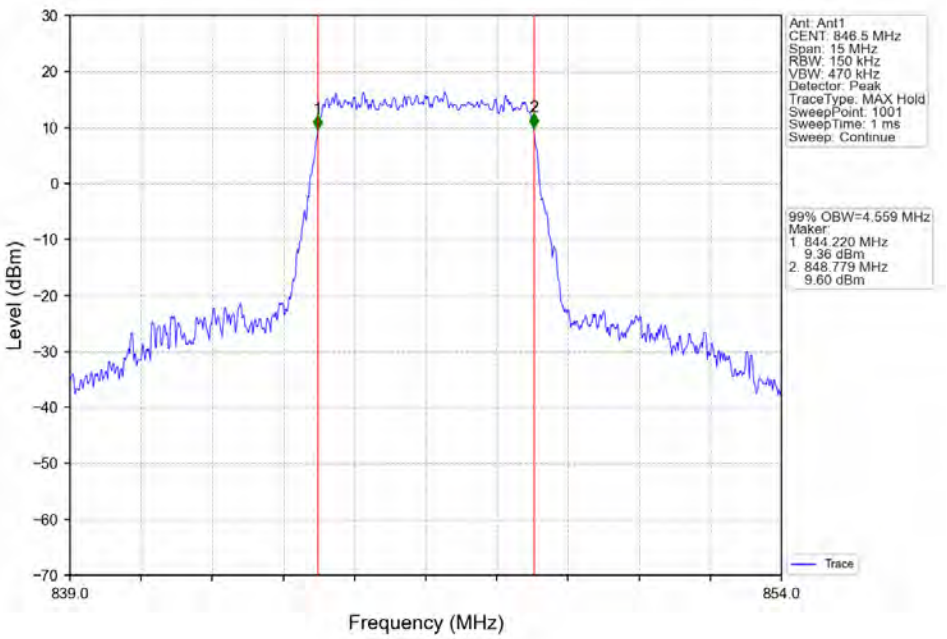
Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



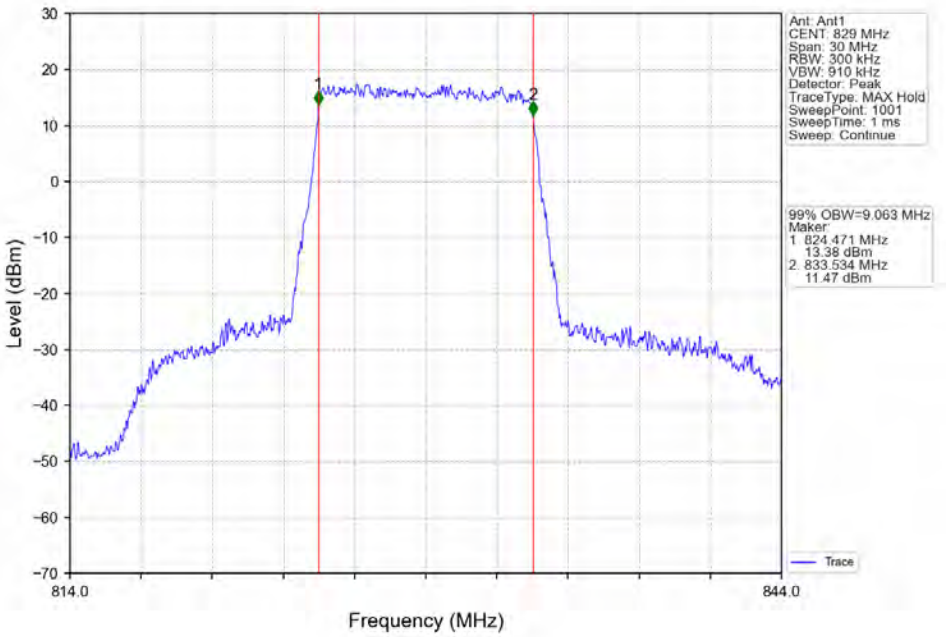
Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



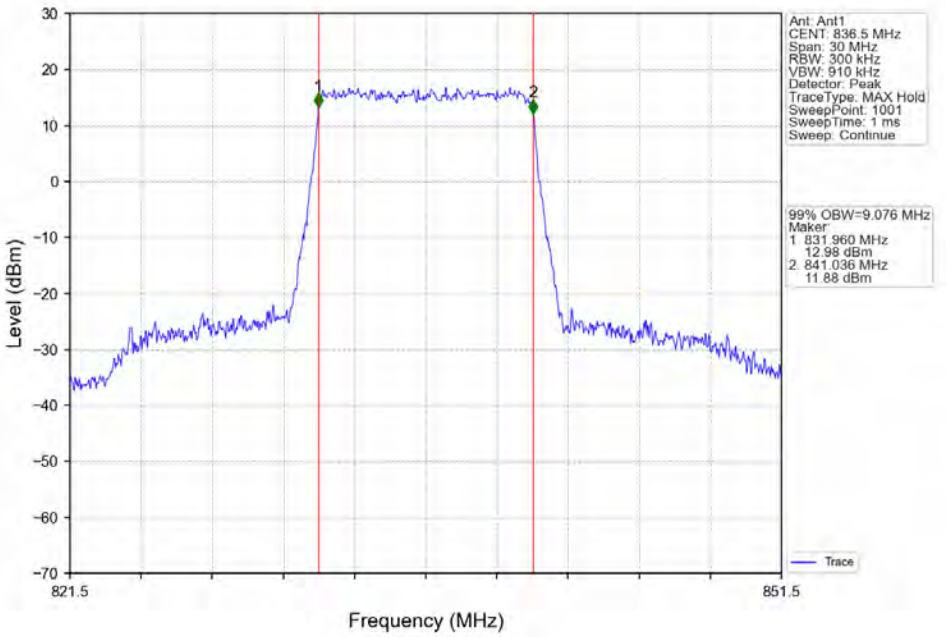
Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



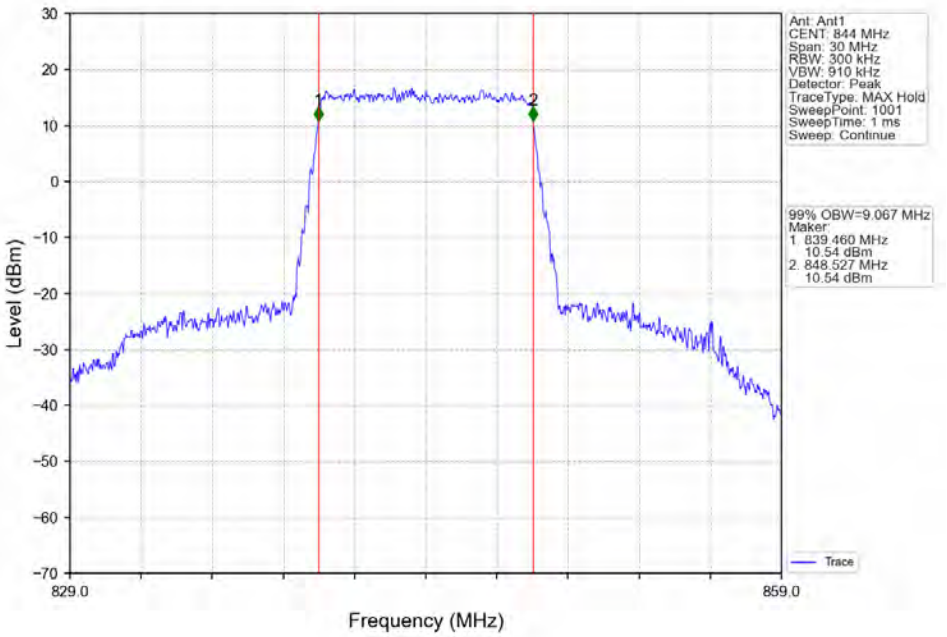
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



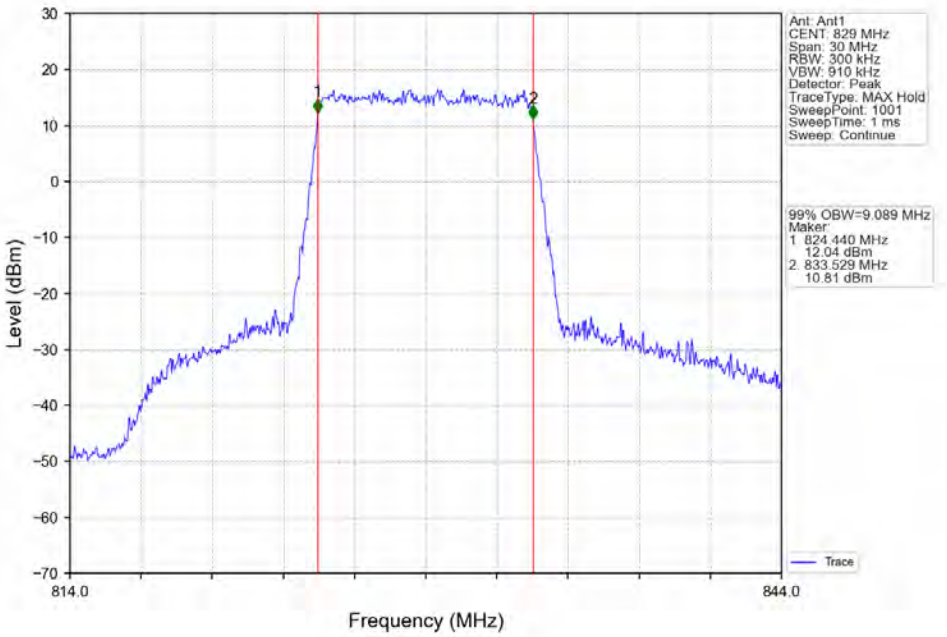
Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



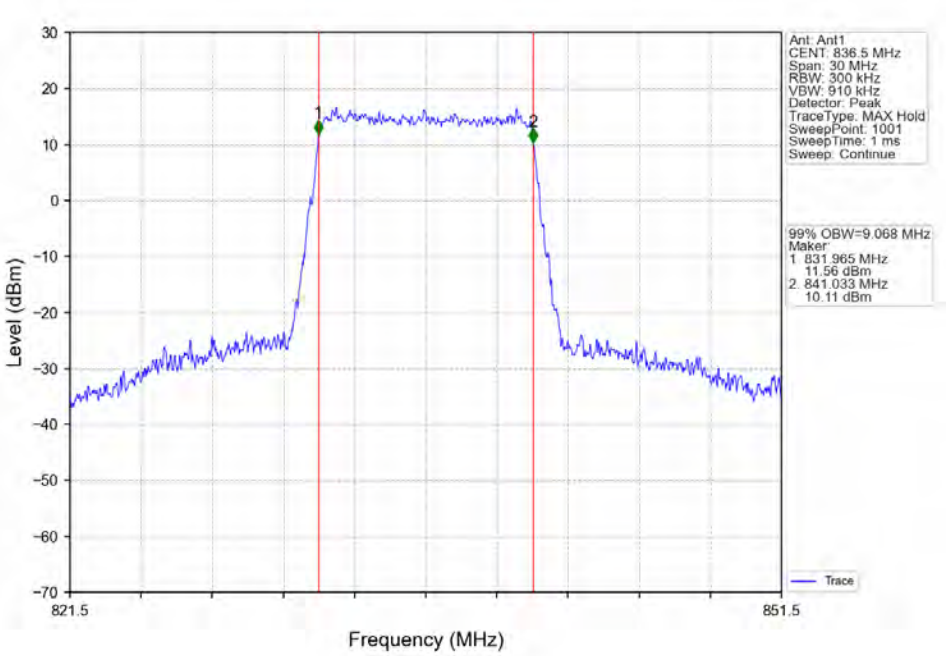
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



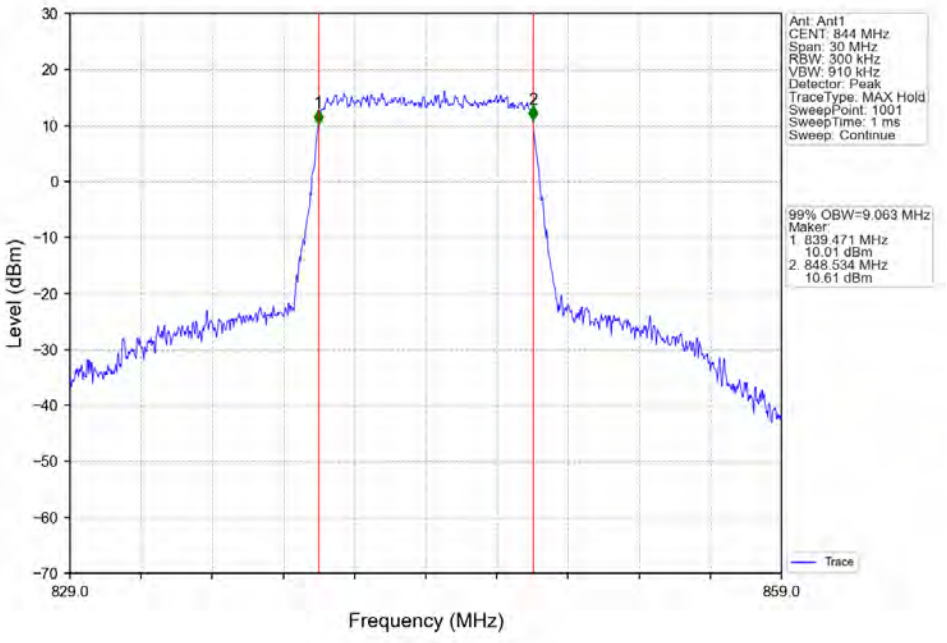
Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV

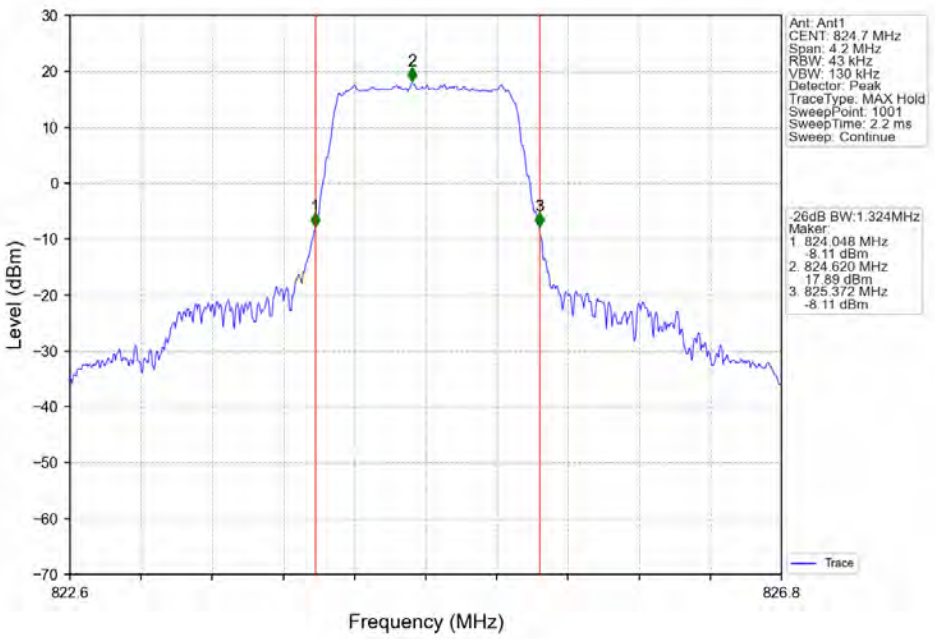


Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV

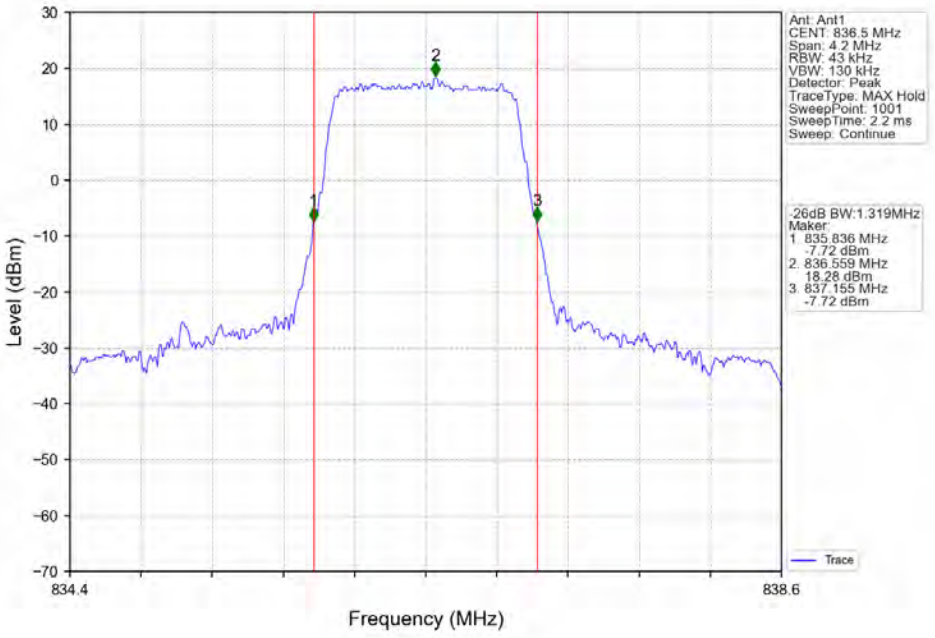


4.2.2 Band5_XDB

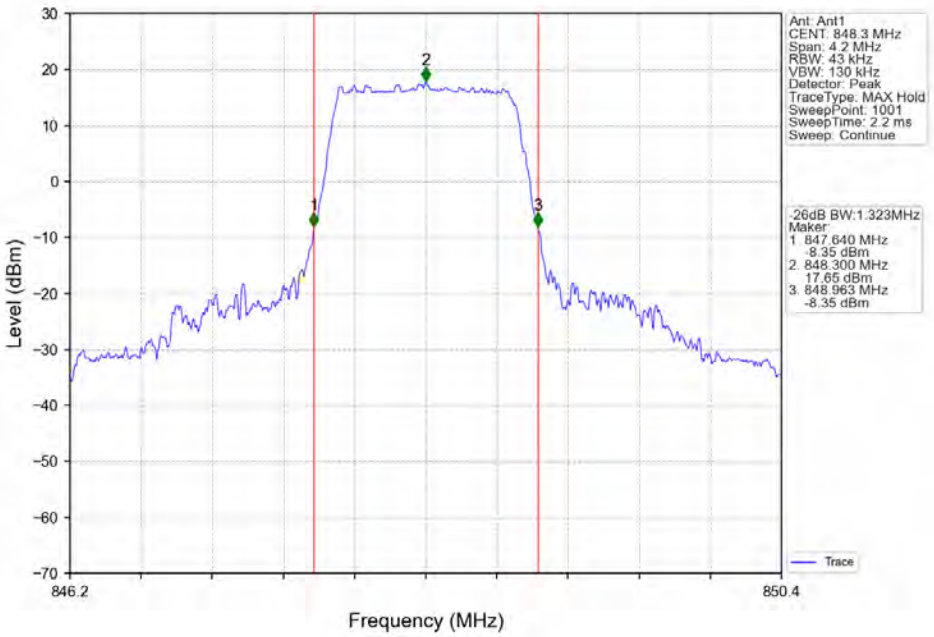
Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



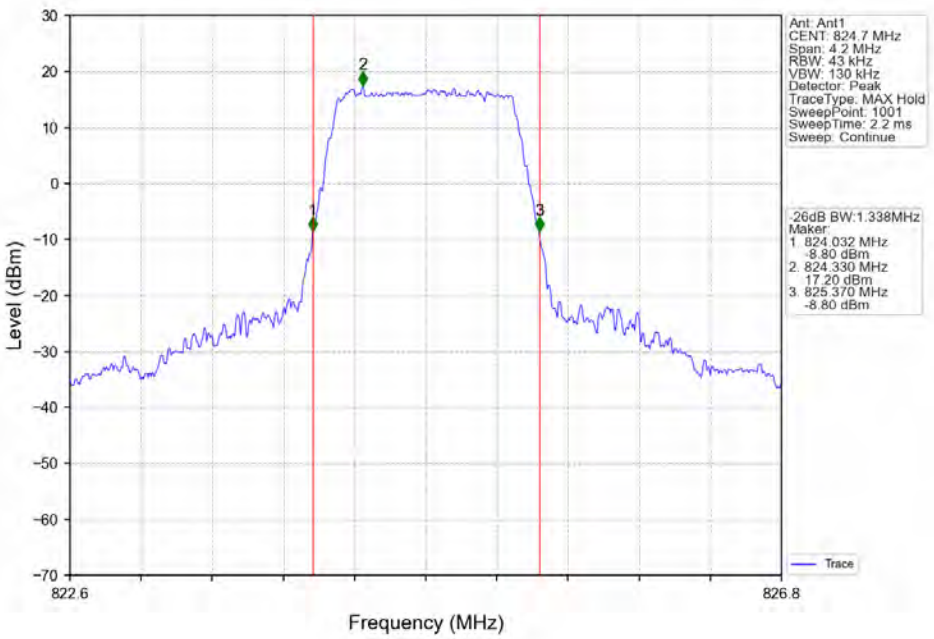
Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV



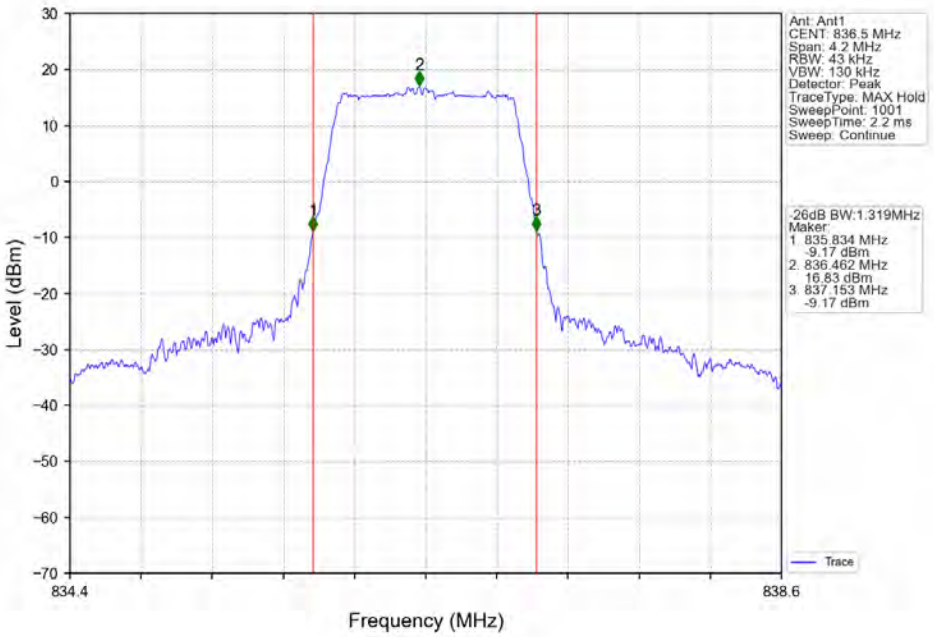
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



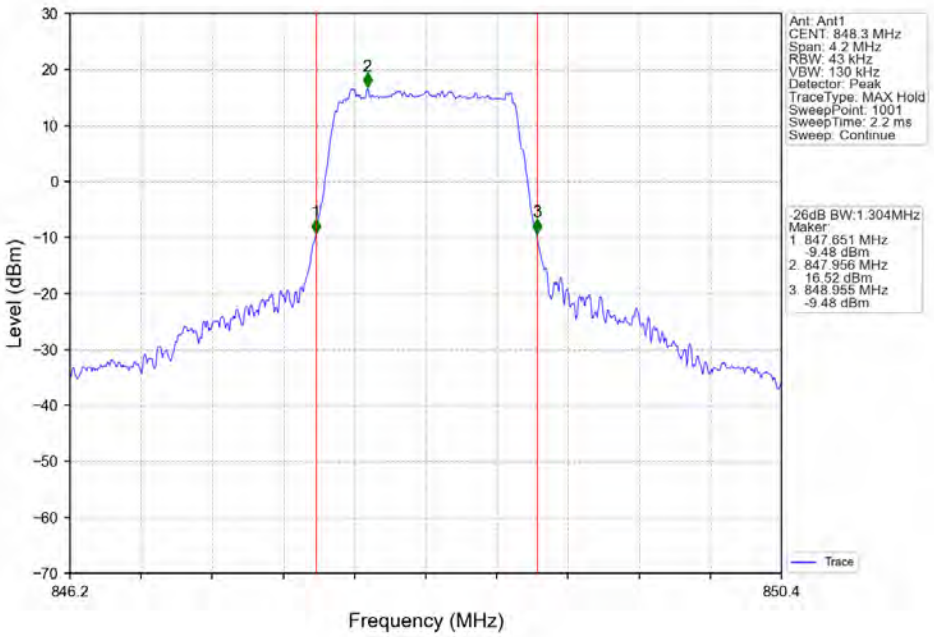
Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



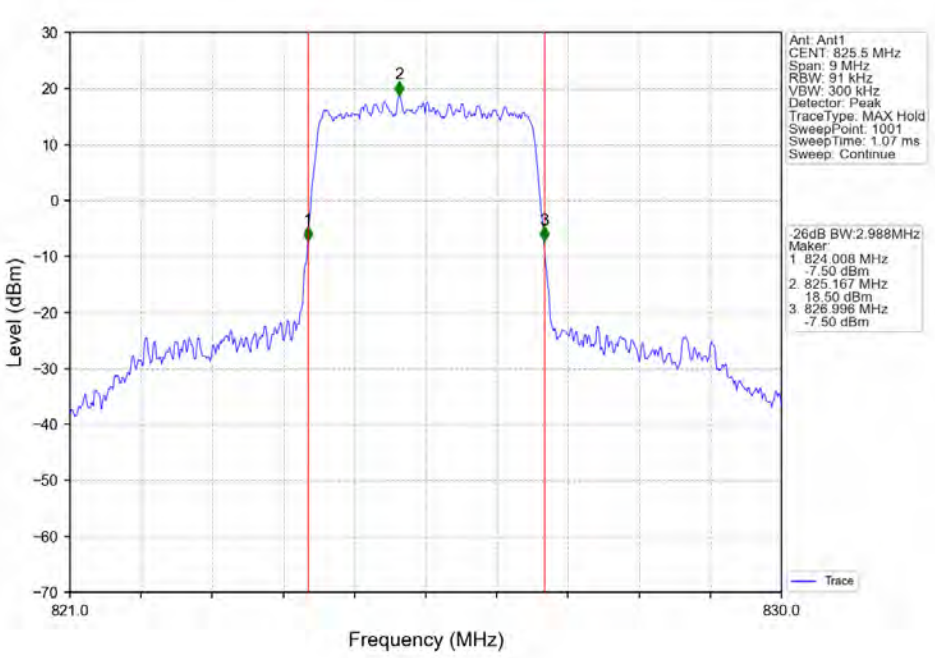
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



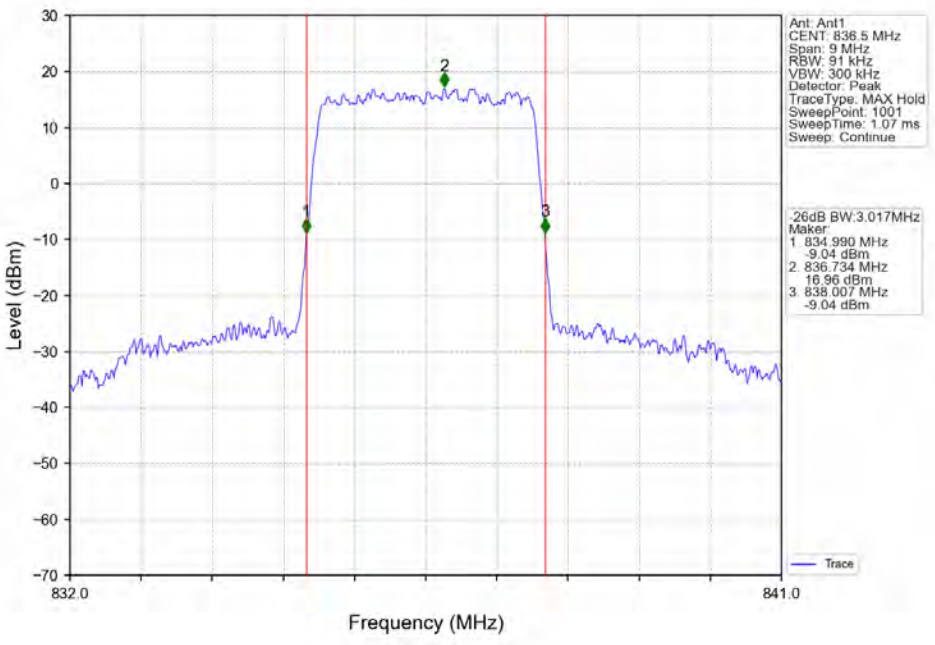
Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



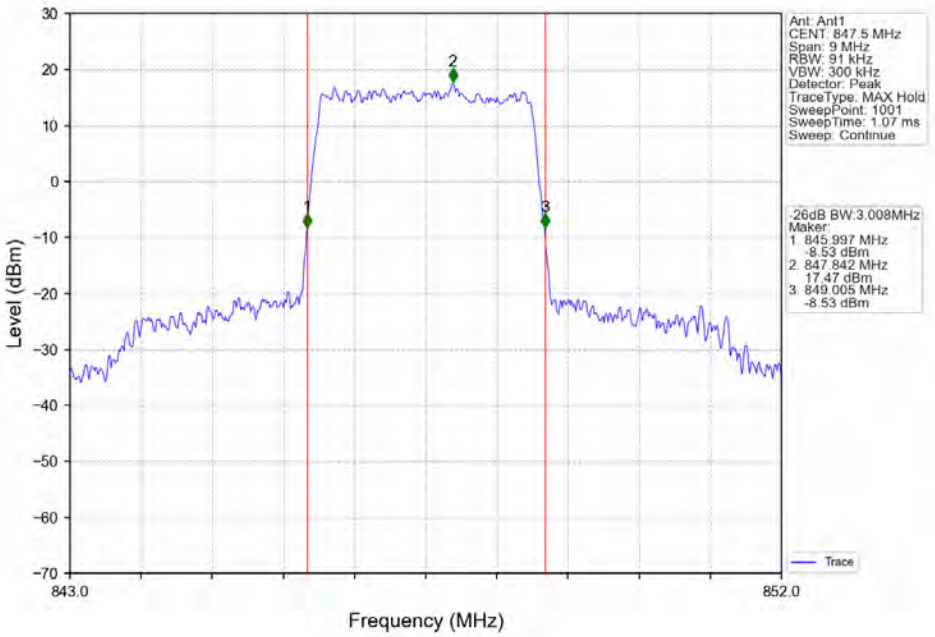
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



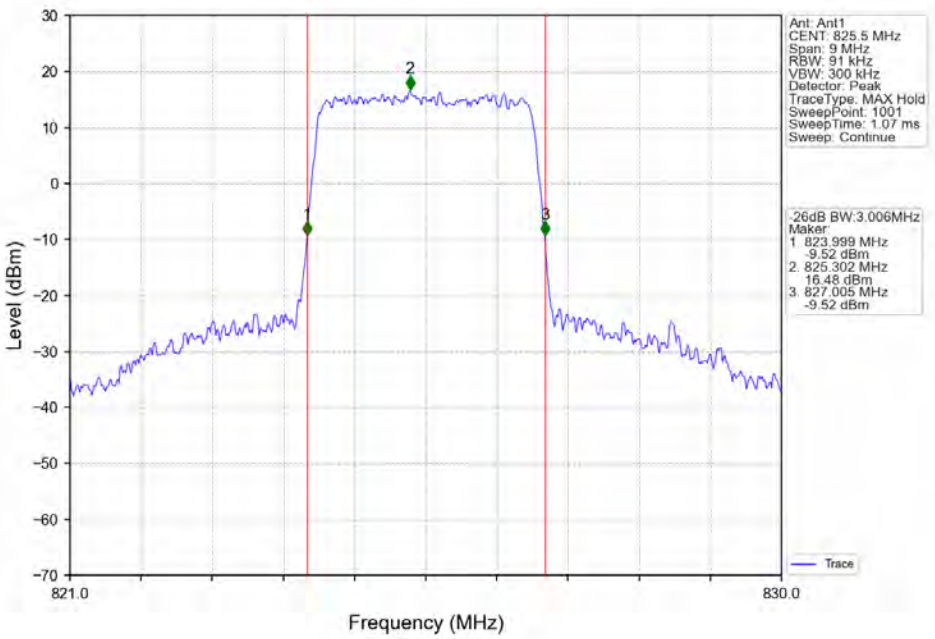
Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



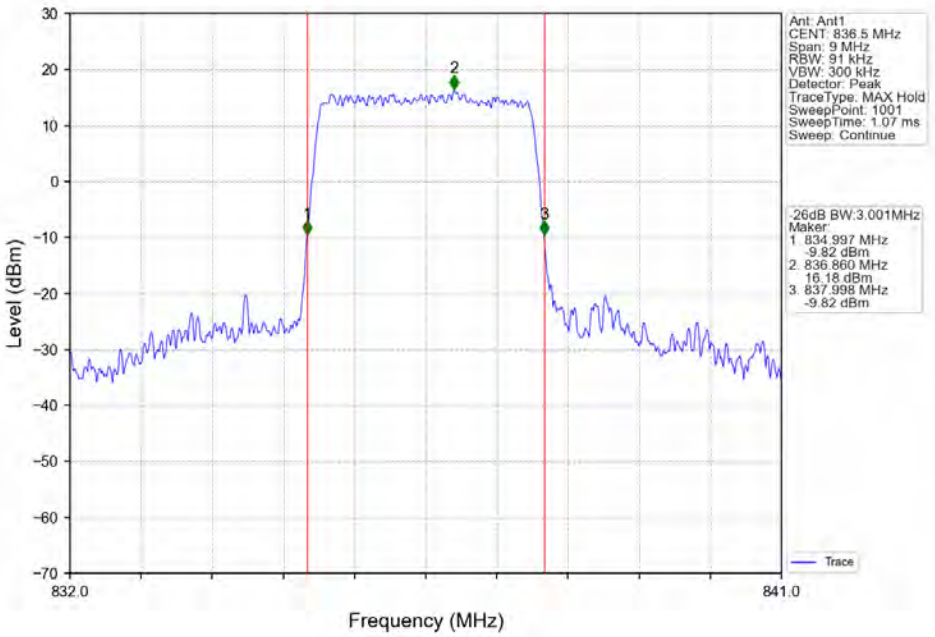
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



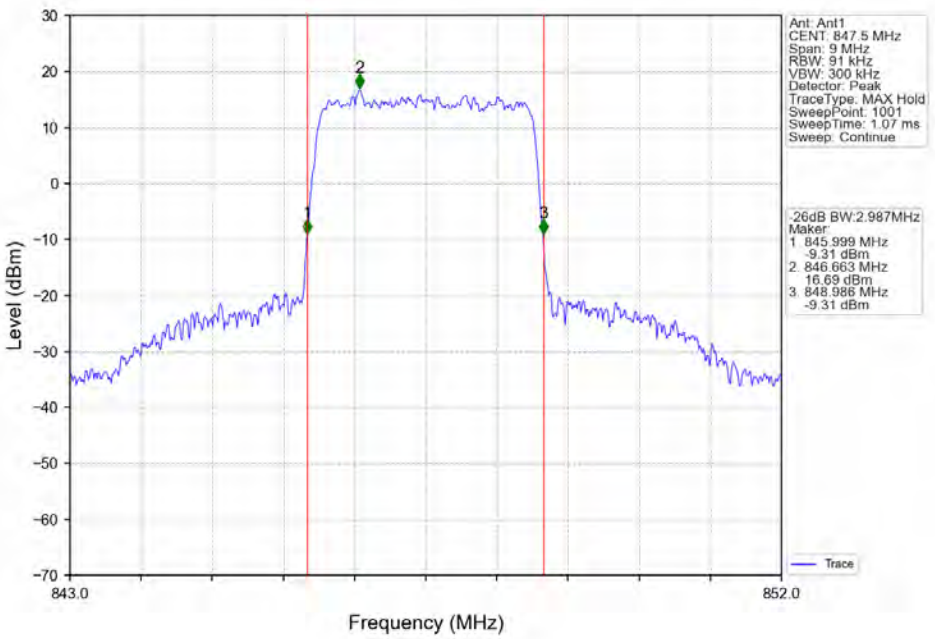
Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



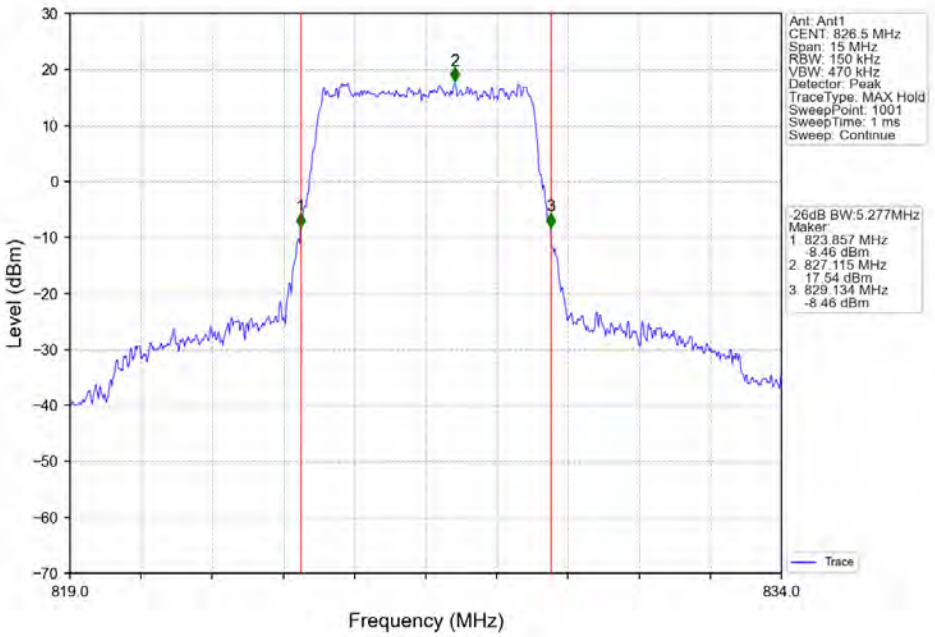
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



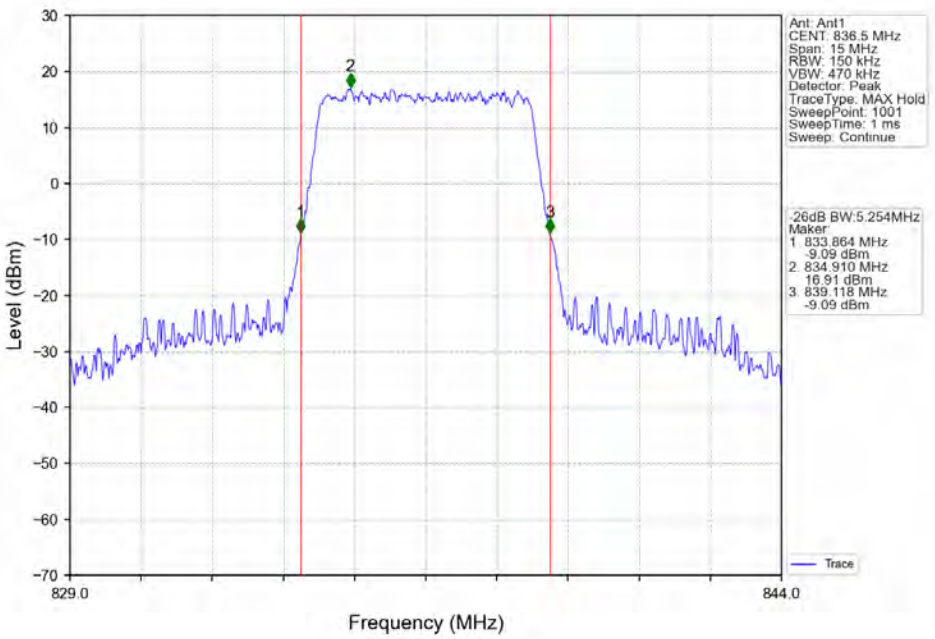
Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



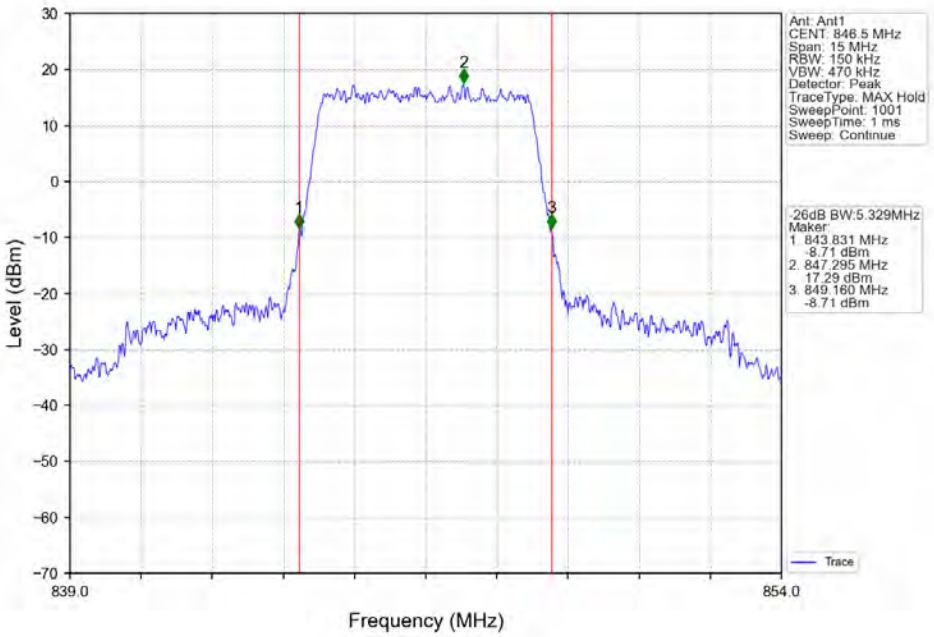
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



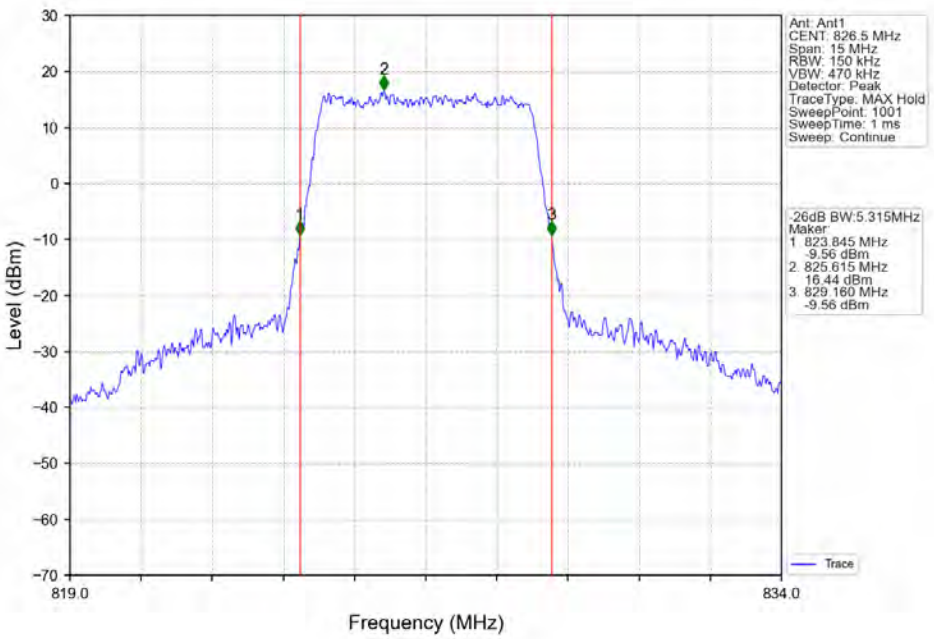
Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



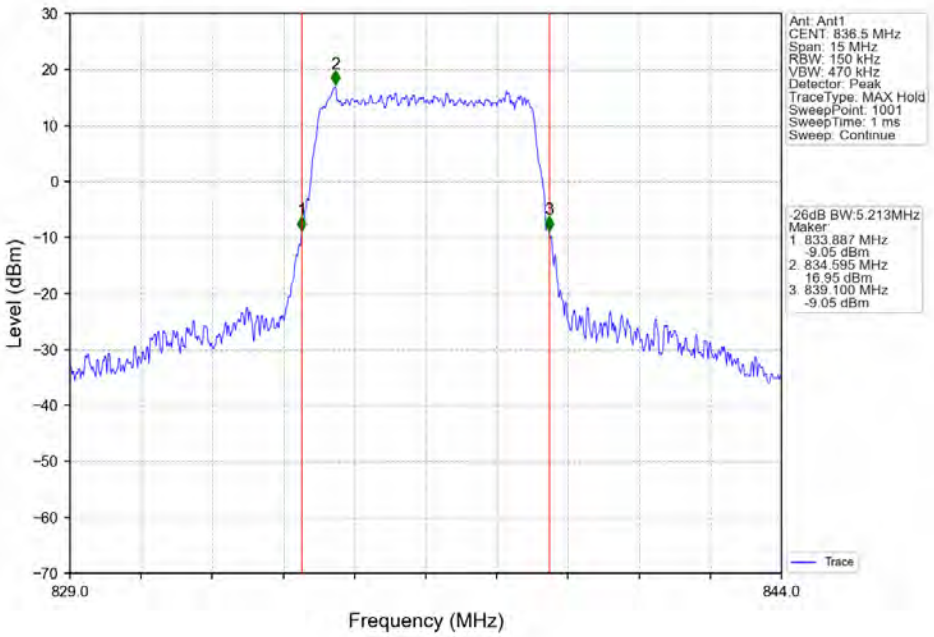
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



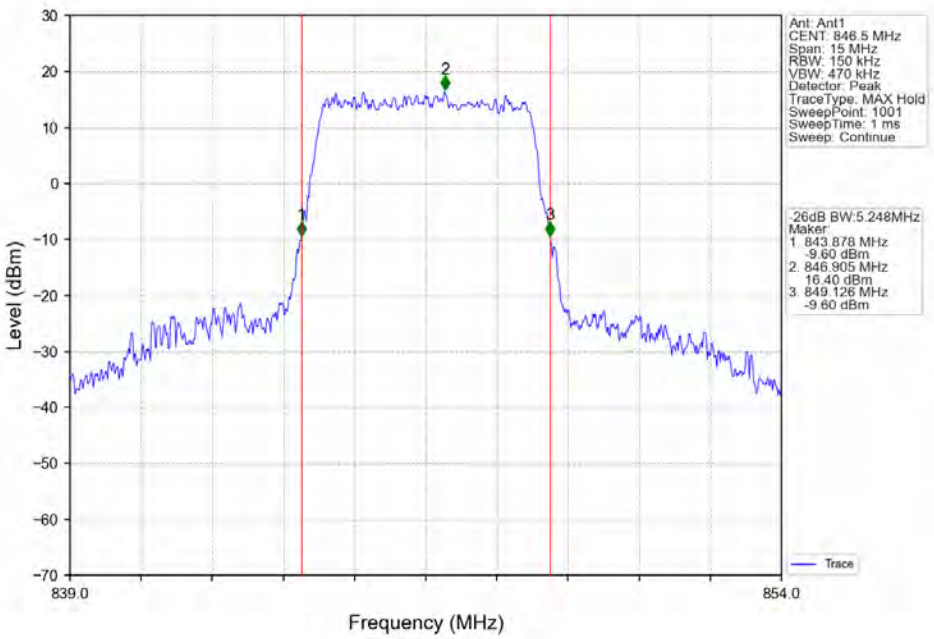
Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



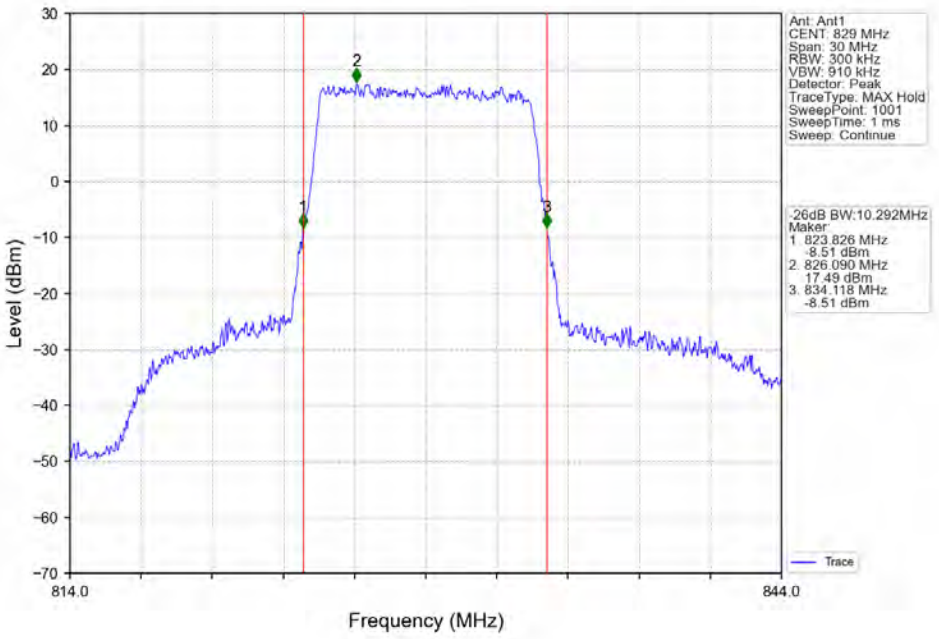
Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



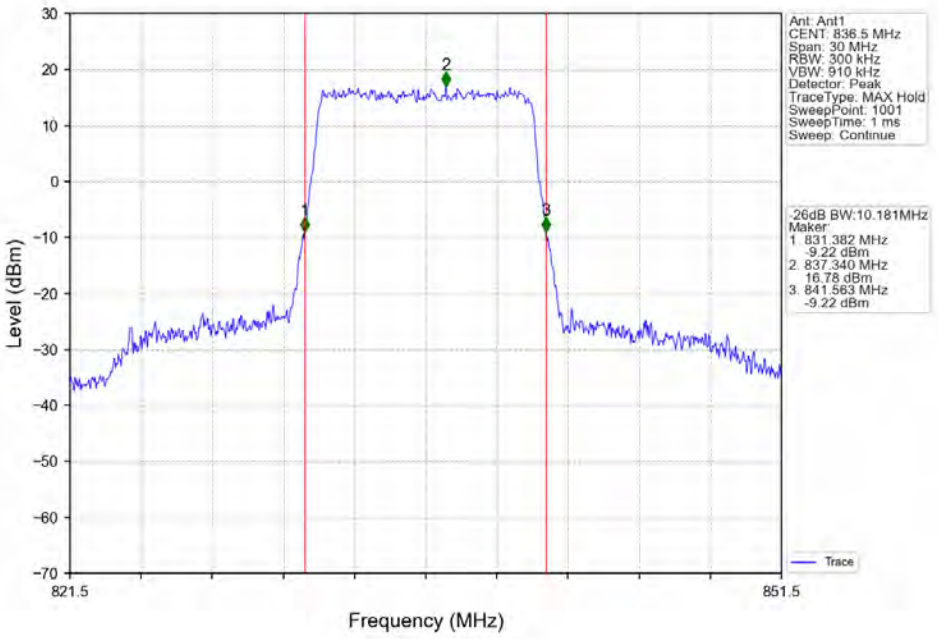
Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



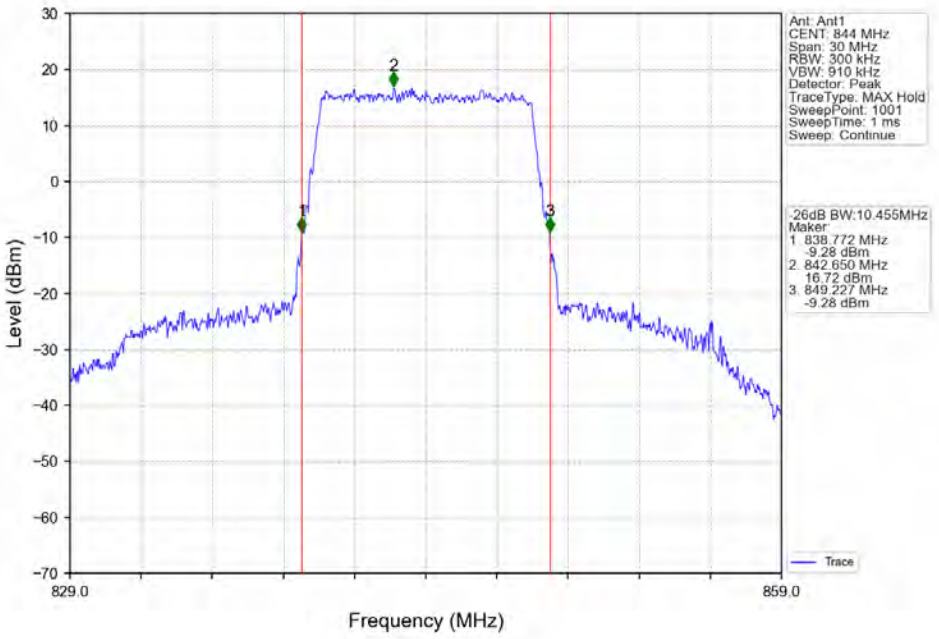
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



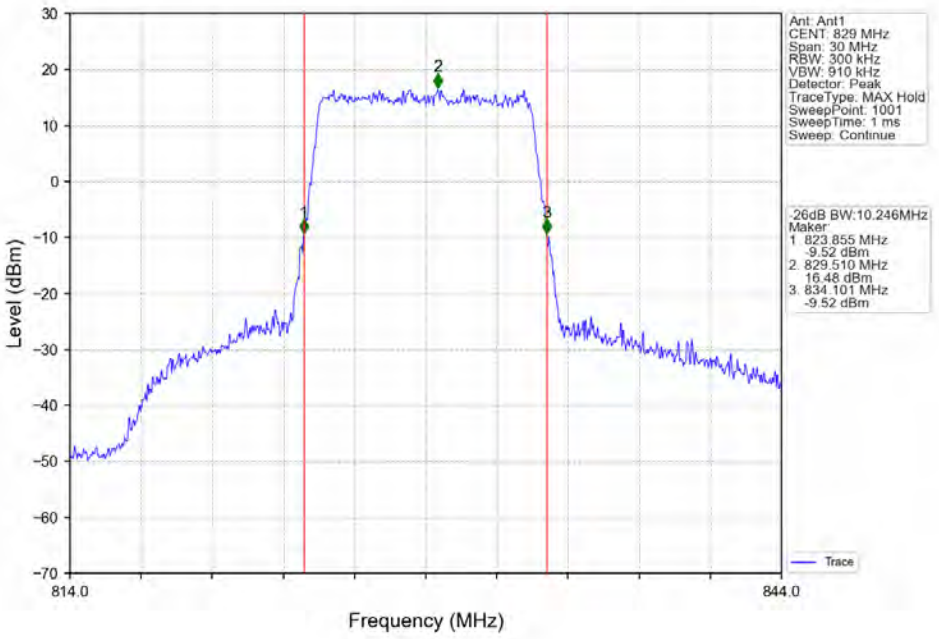
Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



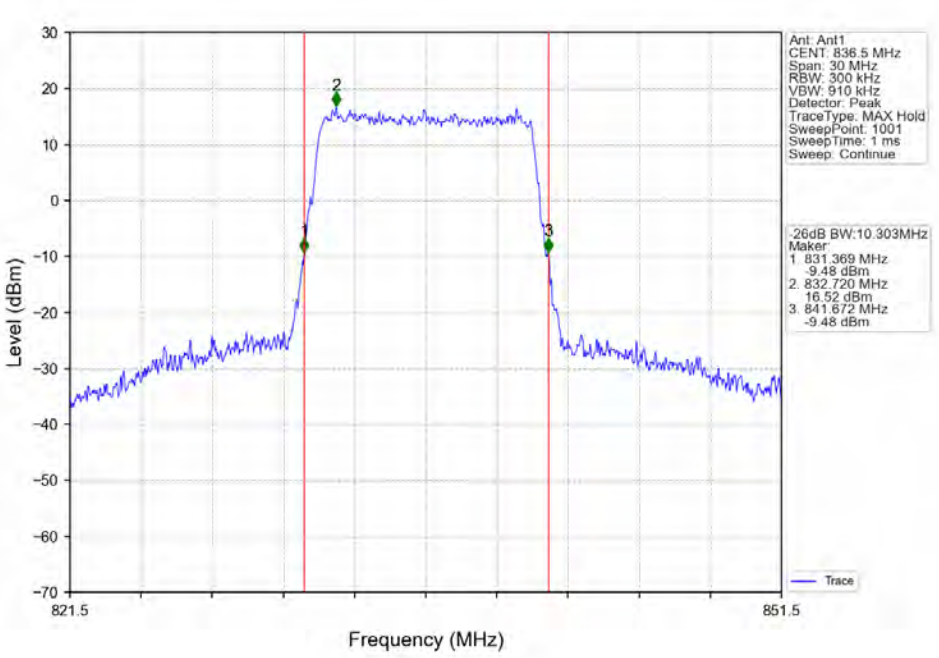
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



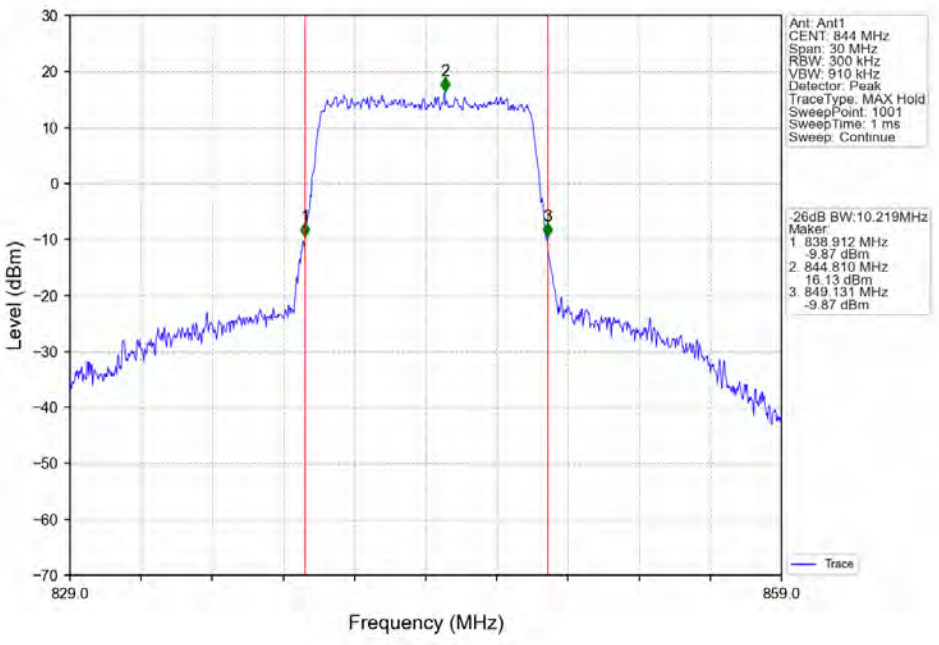
Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



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	5.12	<=13	Pass
	836.5	6	0	5.27	<=13	Pass
	848.3	6	0	4.86	<=13	Pass
16QAM	824.7	6	0	6.05	<=13	Pass
	836.5	6	0	6.24	<=13	Pass
	848.3	6	0	5.78	<=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	5.24	<=13	Pass
	836.5	15	0	5.40	<=13	Pass
	847.5	15	0	5.05	<=13	Pass
16QAM	825.5	15	0	6.03	<=13	Pass
	836.5	15	0	6.20	<=13	Pass
	847.5	15	0	5.93	<=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	5.45	<=13	Pass
	836.5	25	0	5.56	<=13	Pass
	846.5	25	0	5.41	<=13	Pass
16QAM	826.5	25	0	6.16	<=13	Pass
	836.5	25	0	6.31	<=13	Pass
	846.5	25	0	6.08	<=13	Pass

5.1.4 B5_10MHz

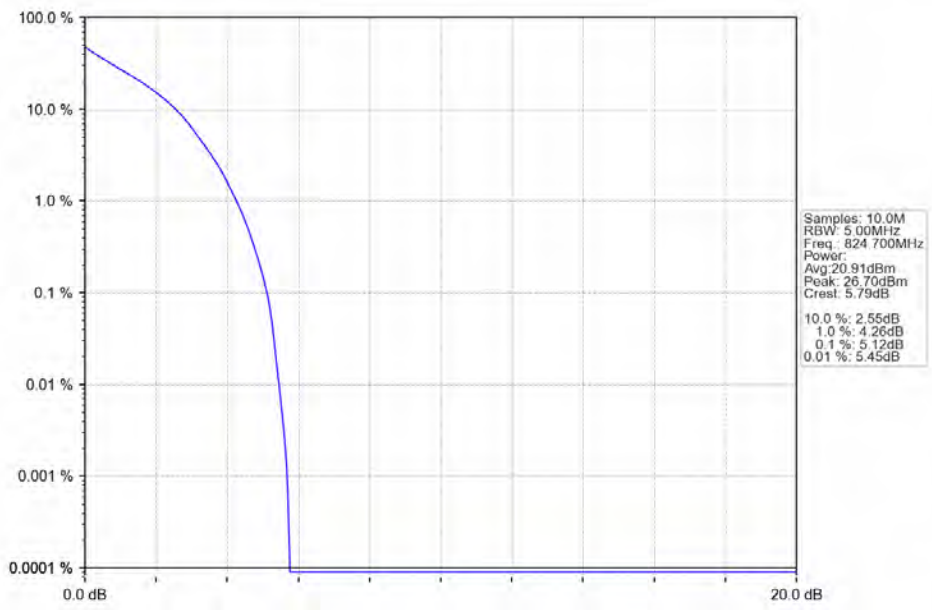
Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	829	50	0	5.60	<=13	Pass
	836.5	50	0	5.62	<=13	Pass
	844	50	0	5.43	<=13	Pass

16QAM	829	50	0	6.28	<=13	Pass
	836.5	50	0	6.35	<=13	Pass
	844	50	0	6.13	<=13	Pass

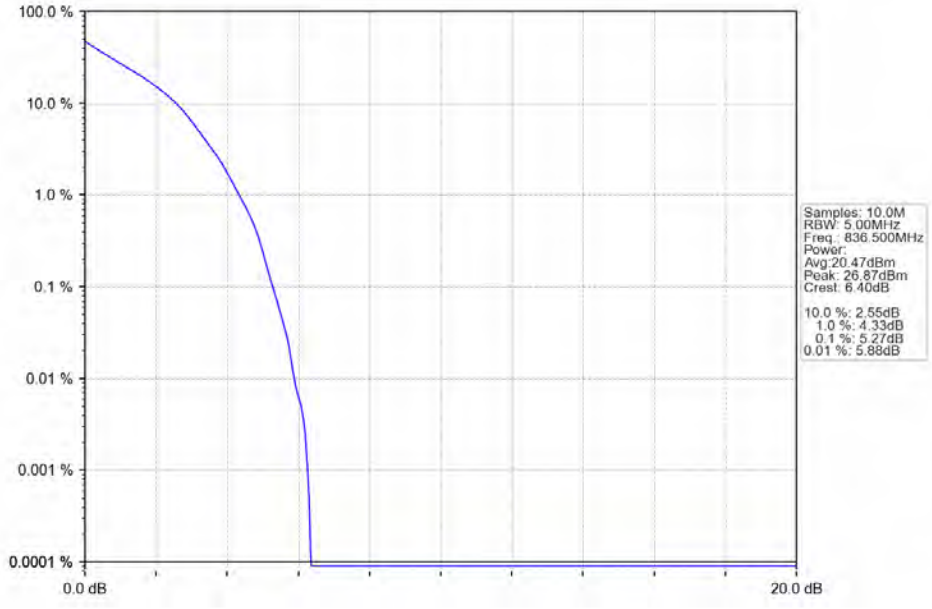
5.2 Test Graph

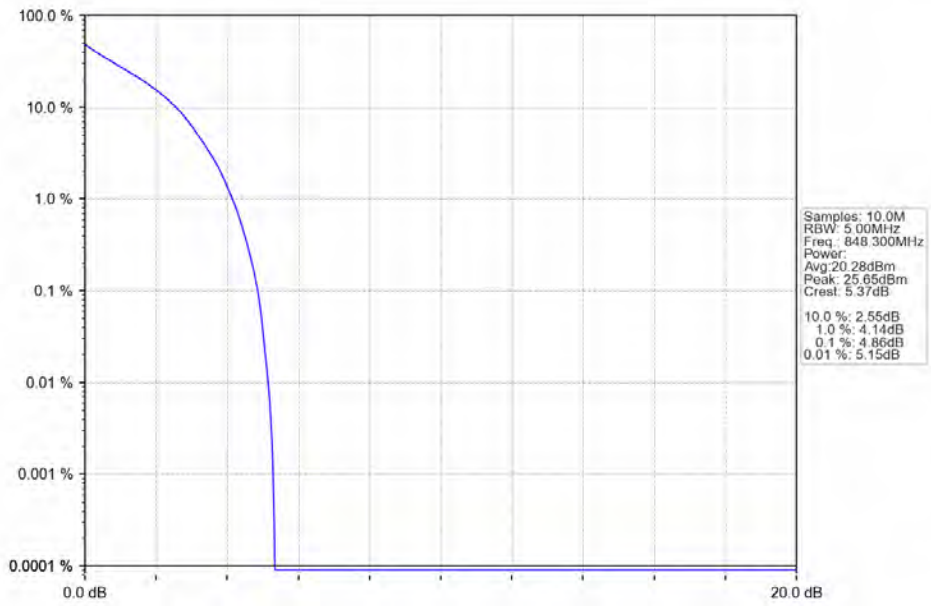
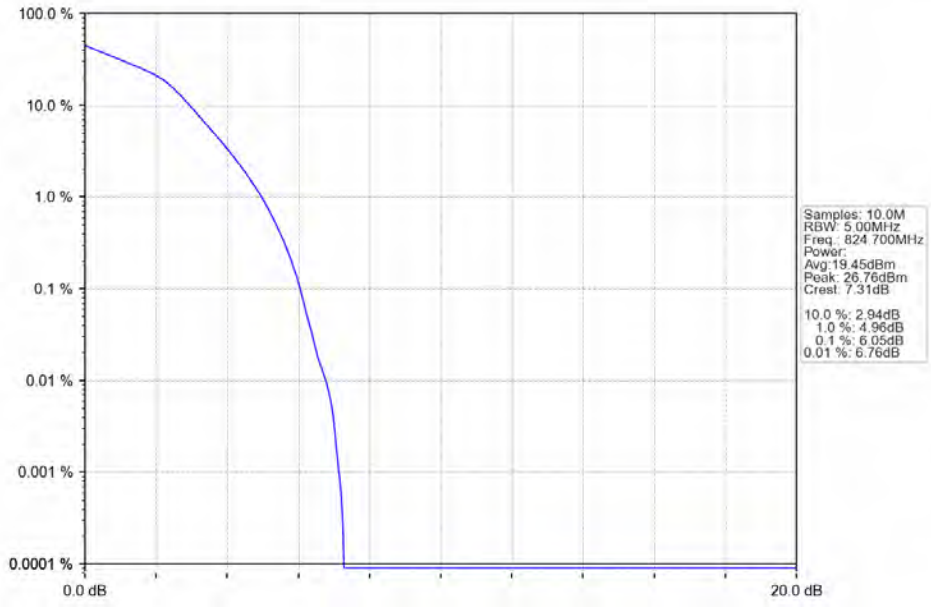
5.2.1 B5_1.4MHz

Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV

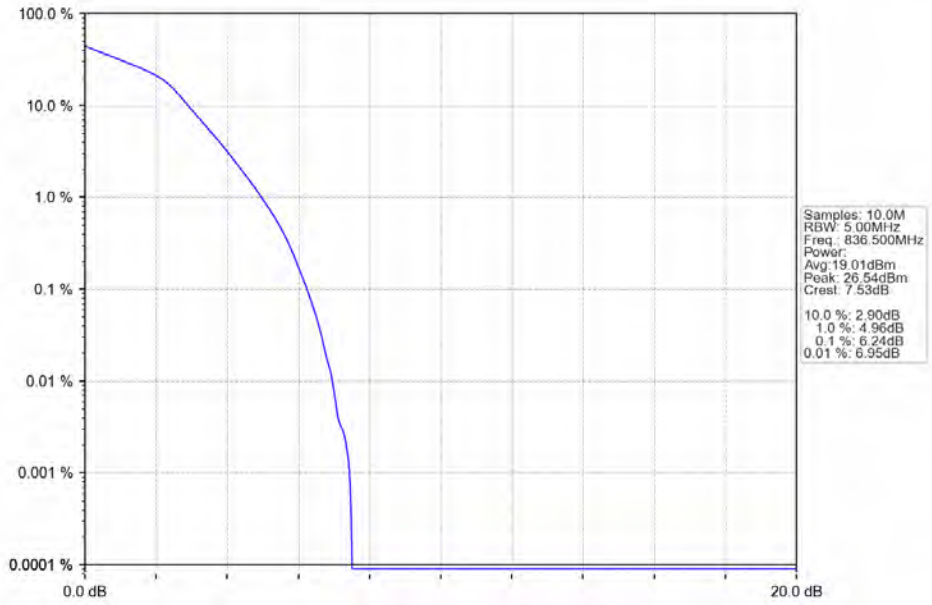


Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_6_0_NTNV

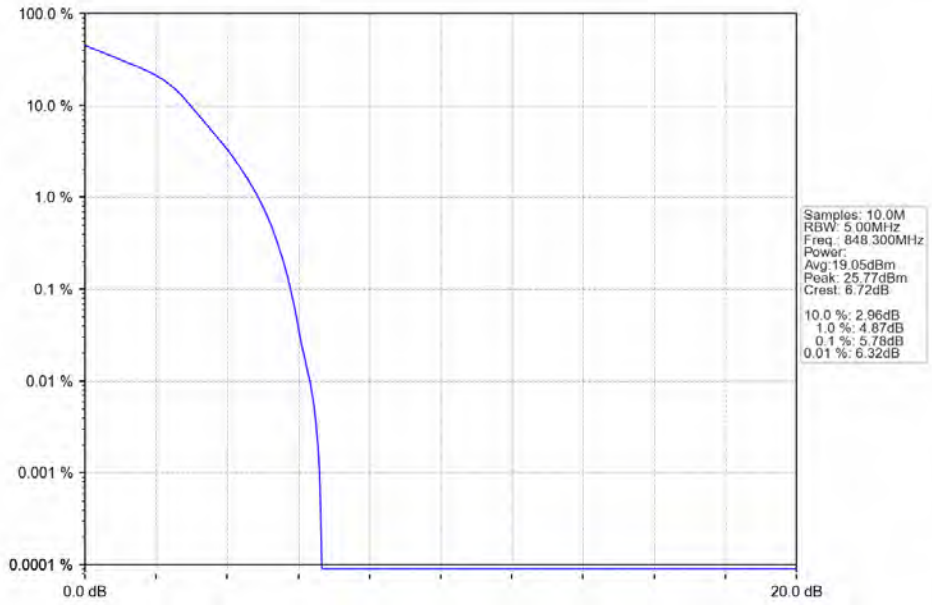


Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV

Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV


Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV

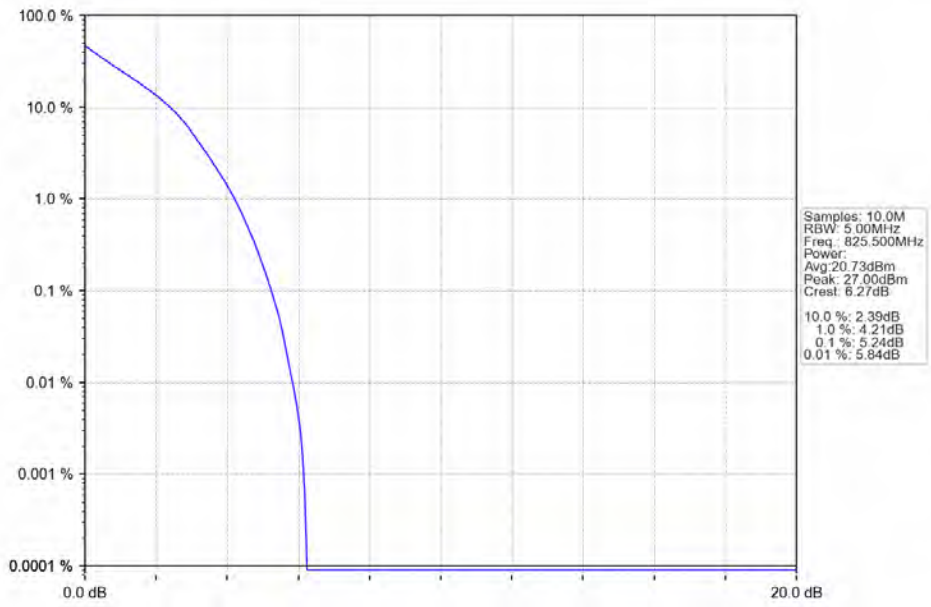


Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV

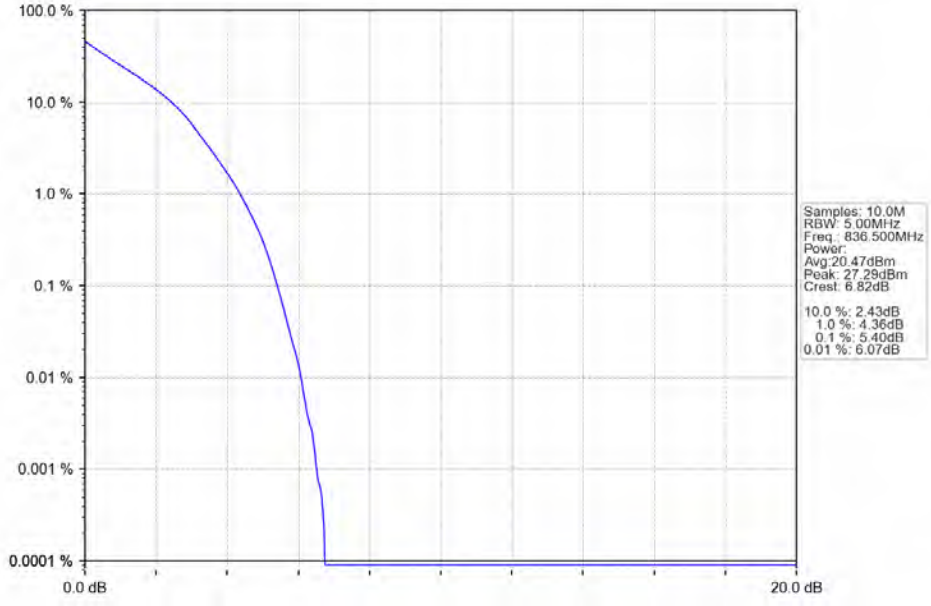


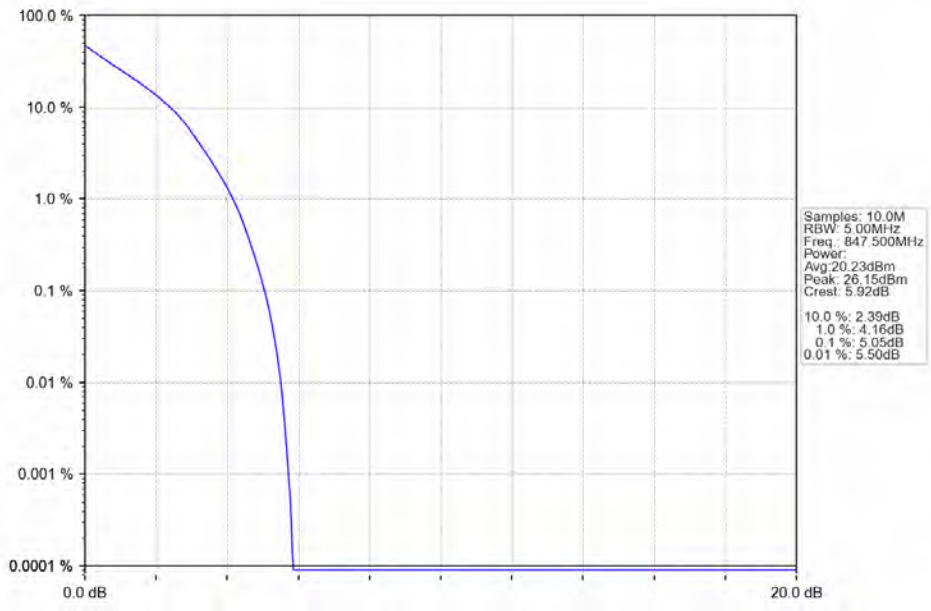
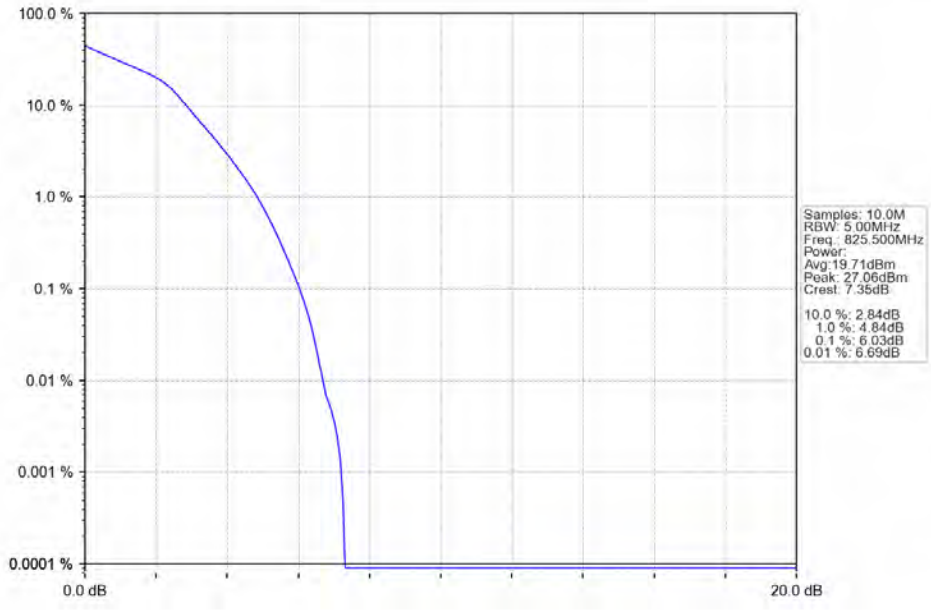
5.2.2 B5_3MHz

Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV

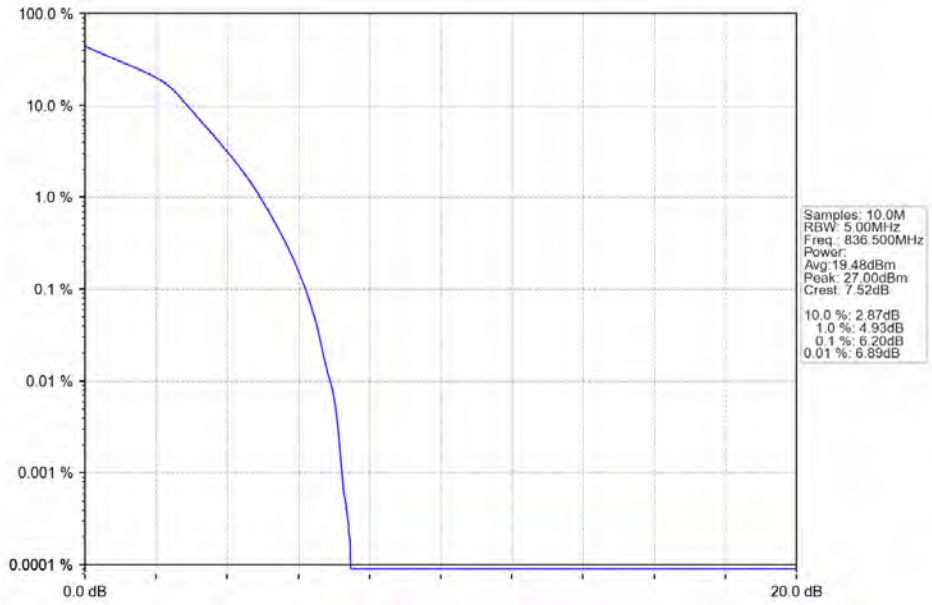


Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV

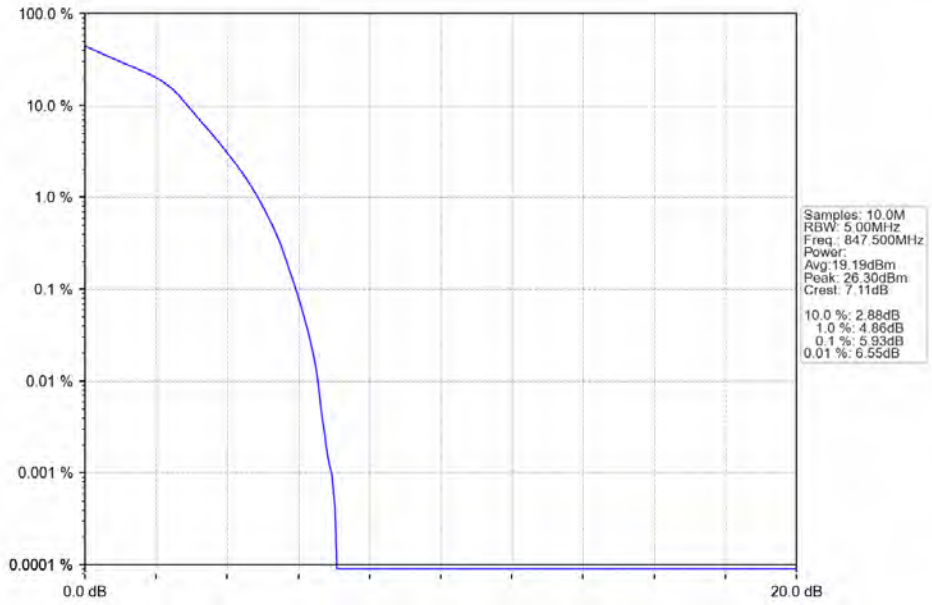


Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV

Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV


Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV

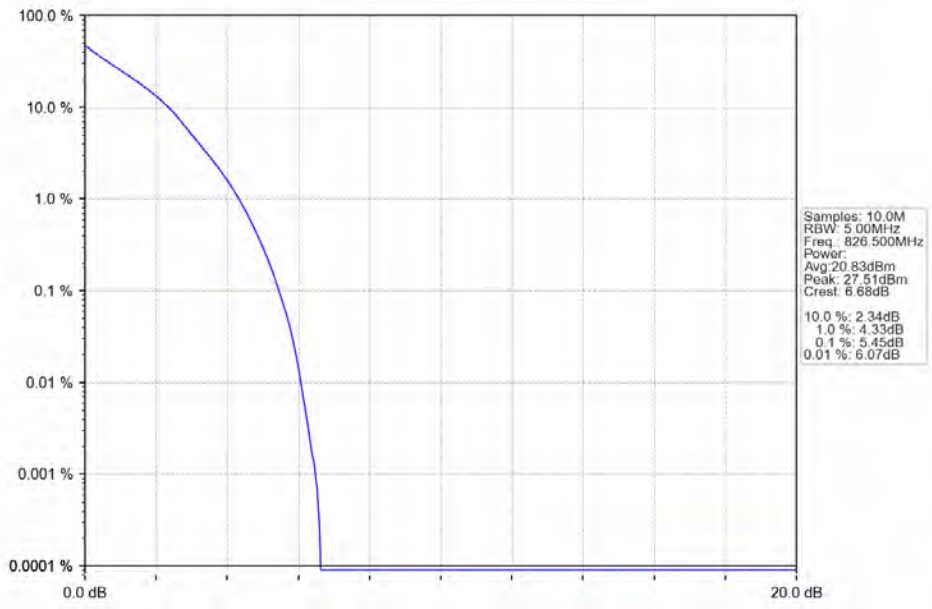


Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV

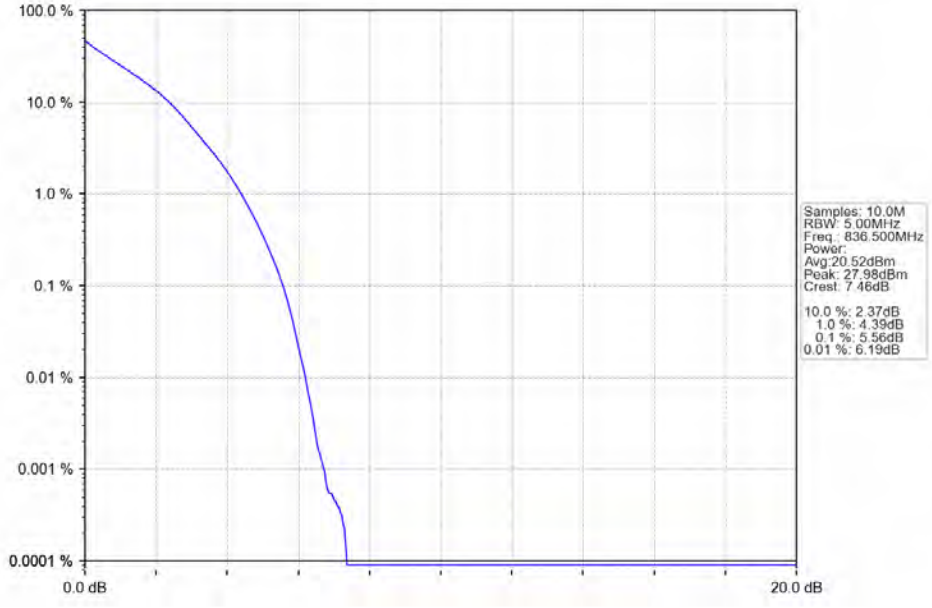


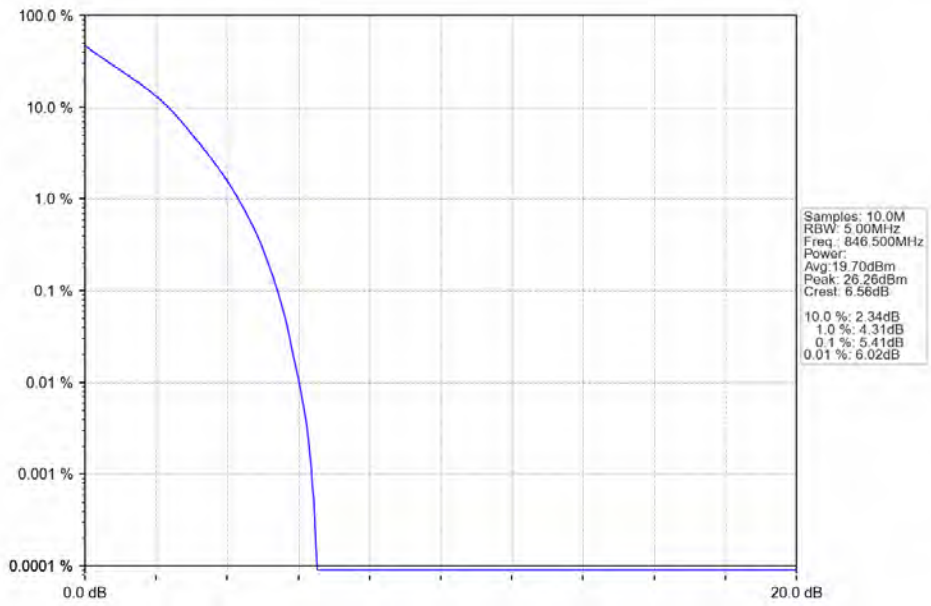
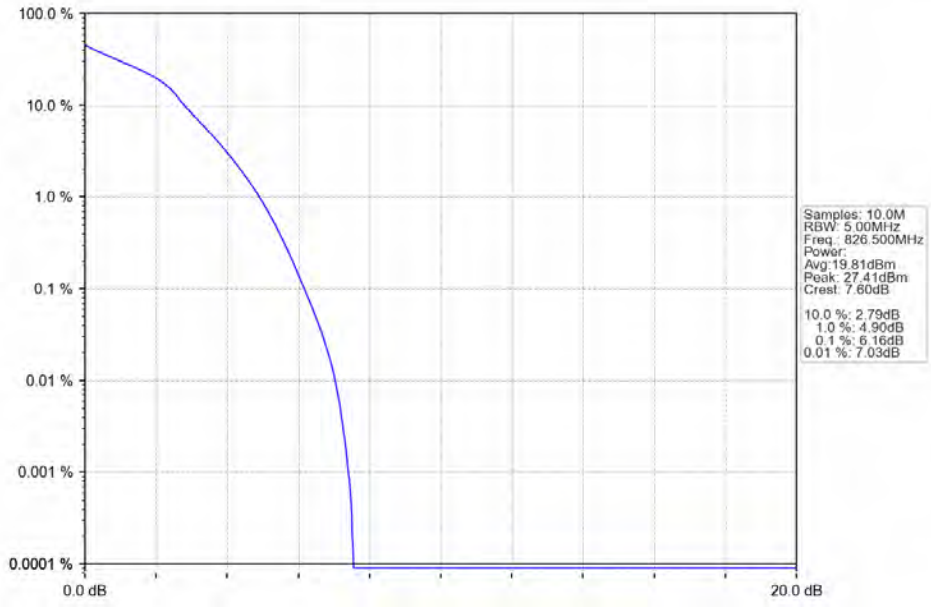
5.2.3 B5_5MHz

Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV

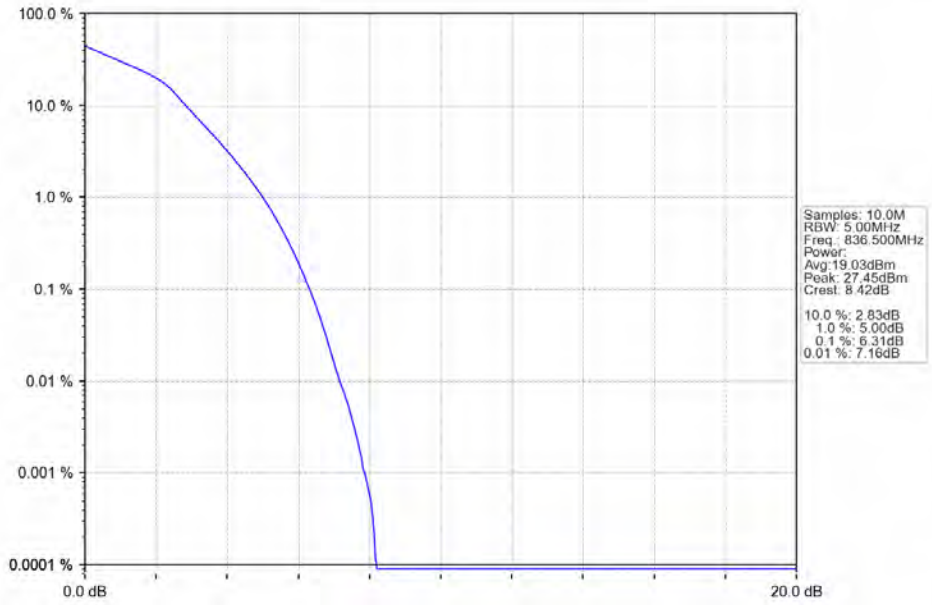


Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV

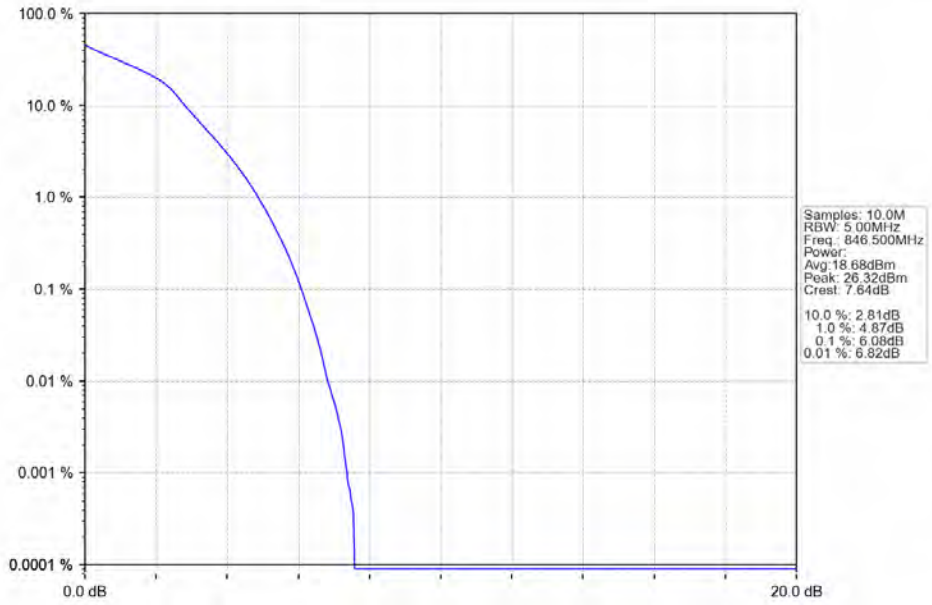


Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV

Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV


Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV

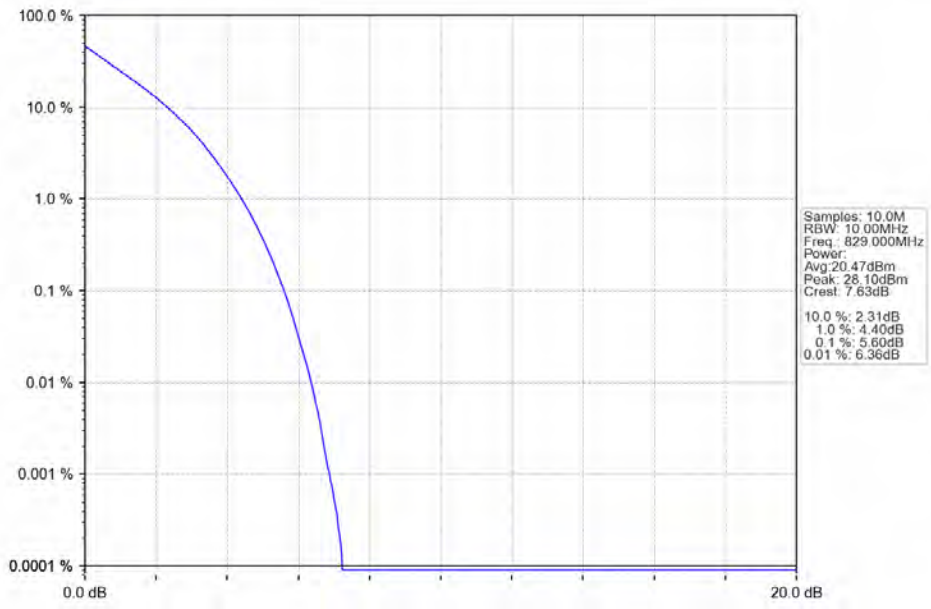


Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV

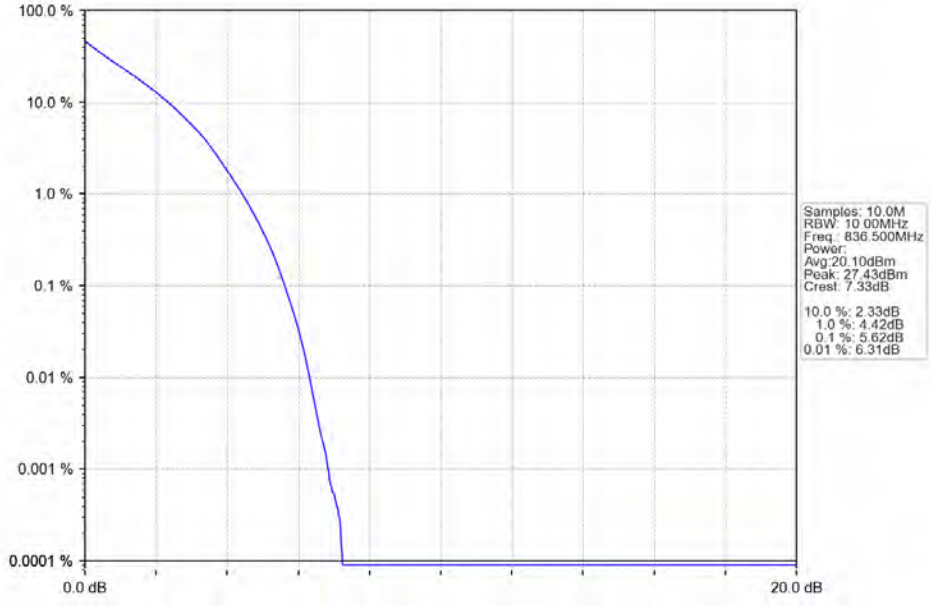


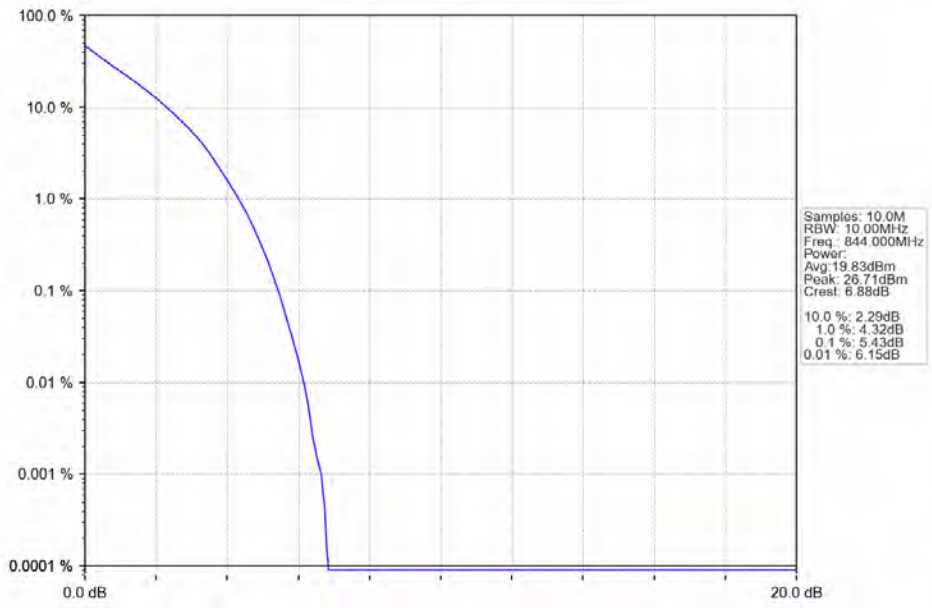
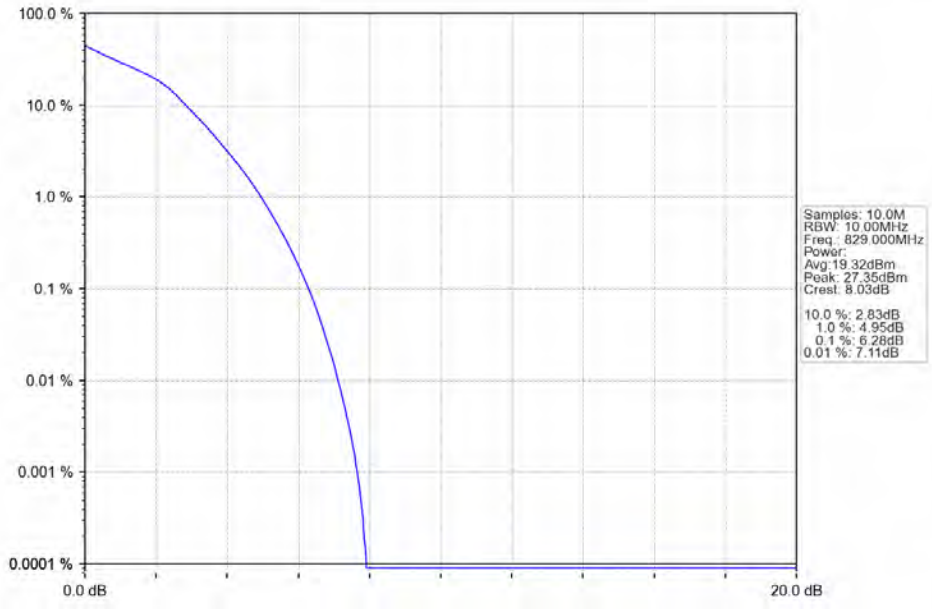
5.2.4 B5_10MHz

Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV

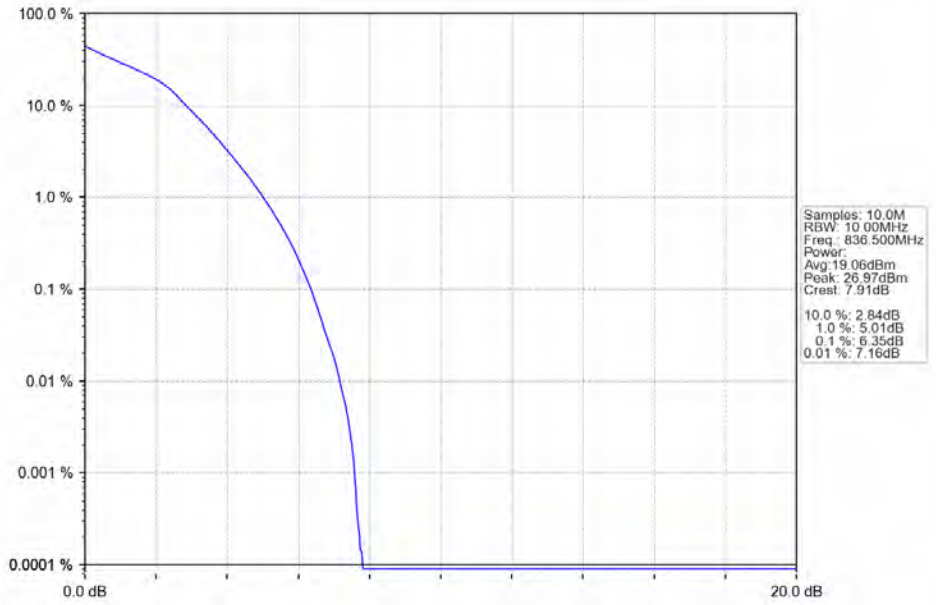


Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV

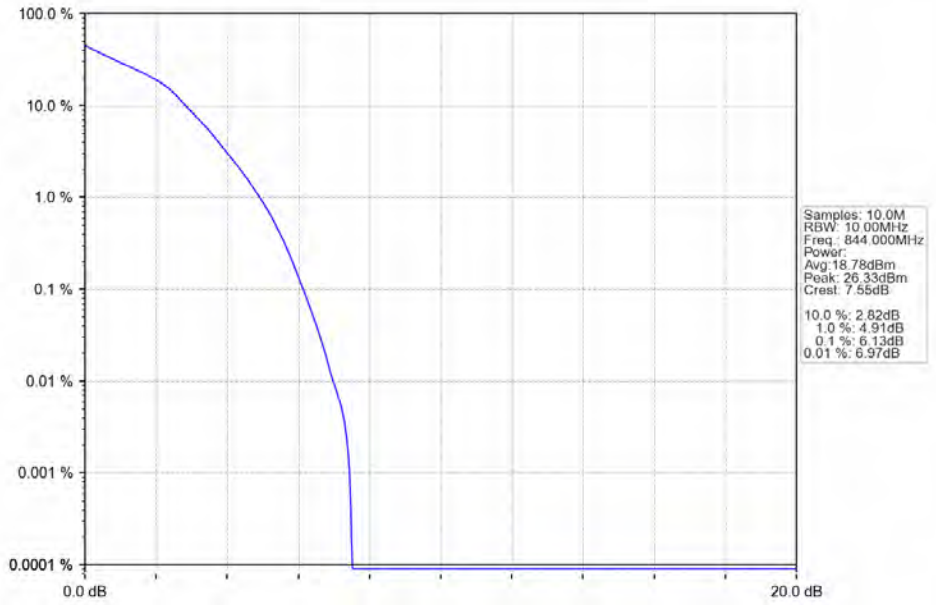


Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV

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

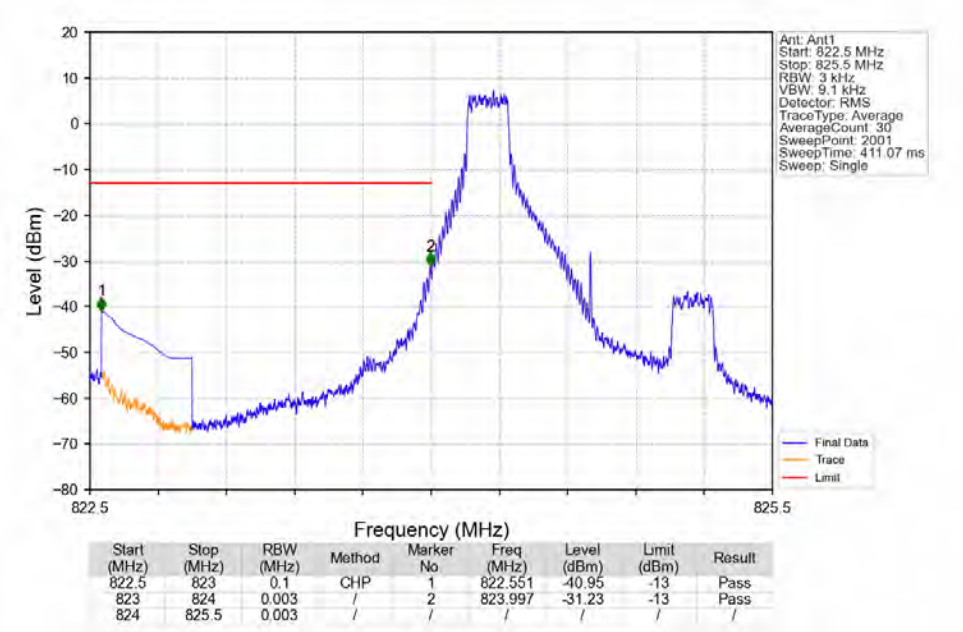
6.1.4 B5_10MHz

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

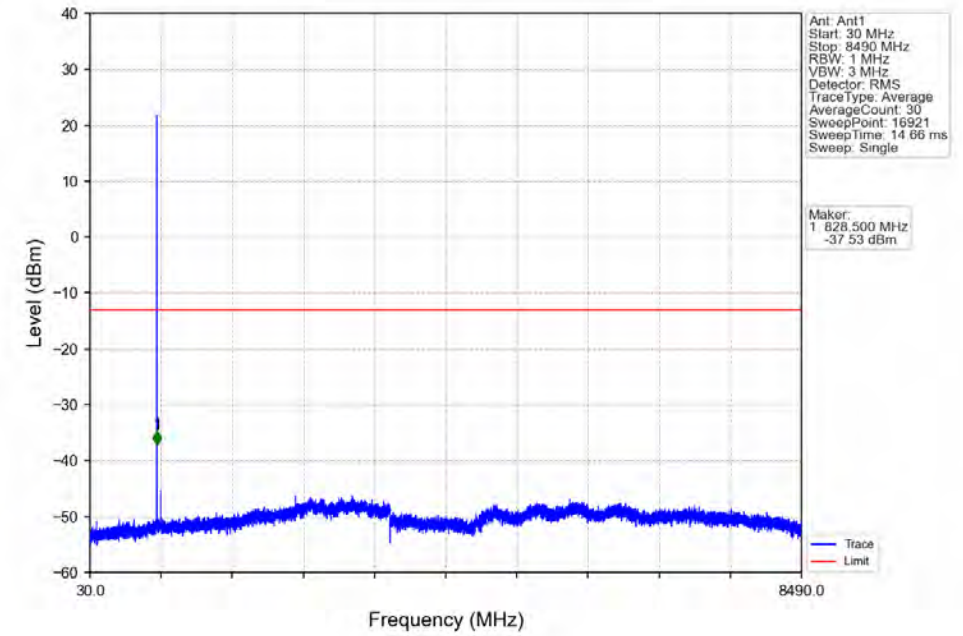
6.2.1 B5_1.4MHz

Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_1_0_NTNV

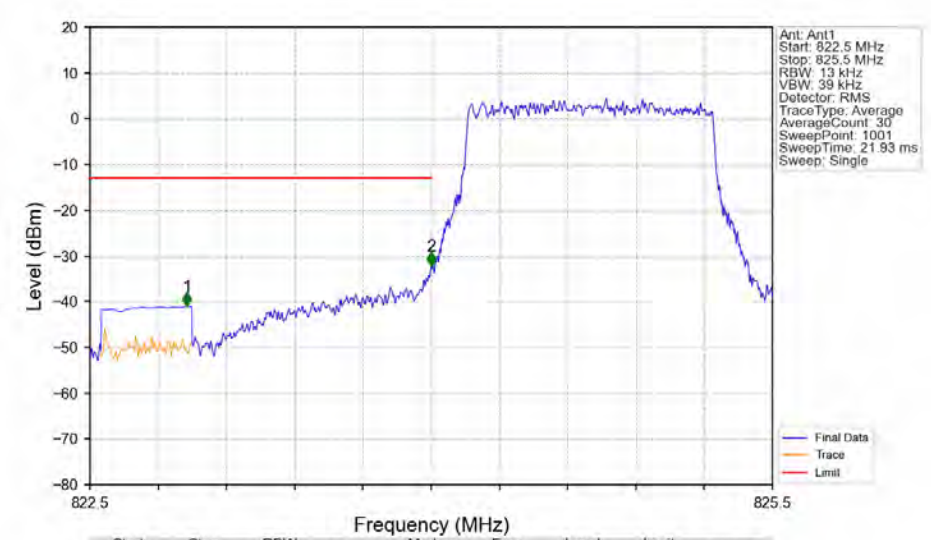


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.551	-40.95	-13	Pass
823	824	0.003	/	2	823.997	-31.23	-13	Pass
824	825.5	0.003	/	/	/	/	/	/

Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_1_0_NTNV

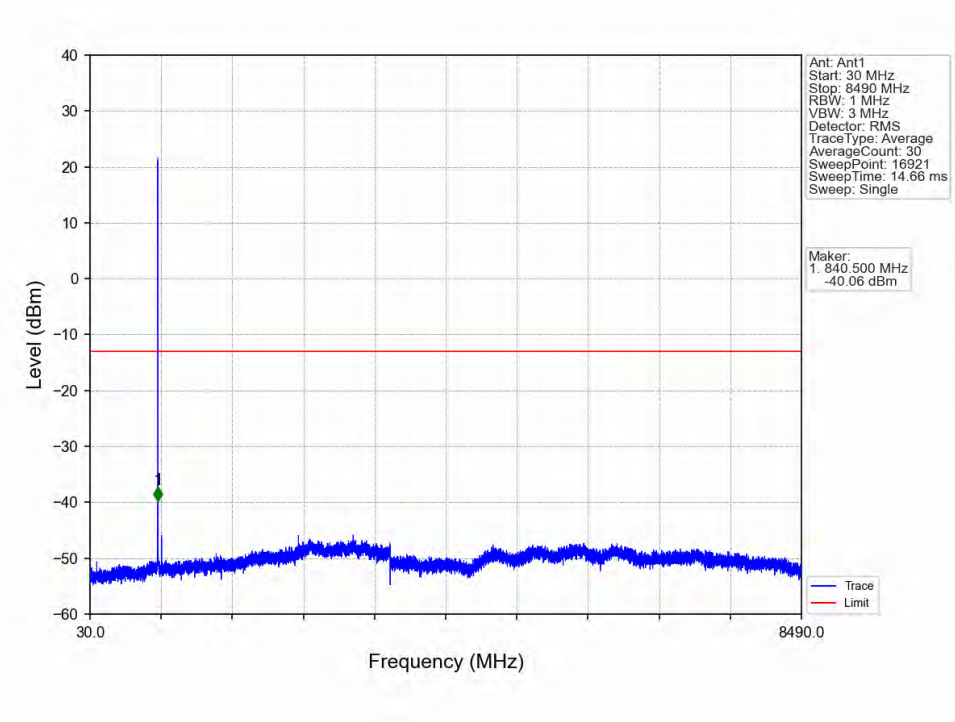


Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV

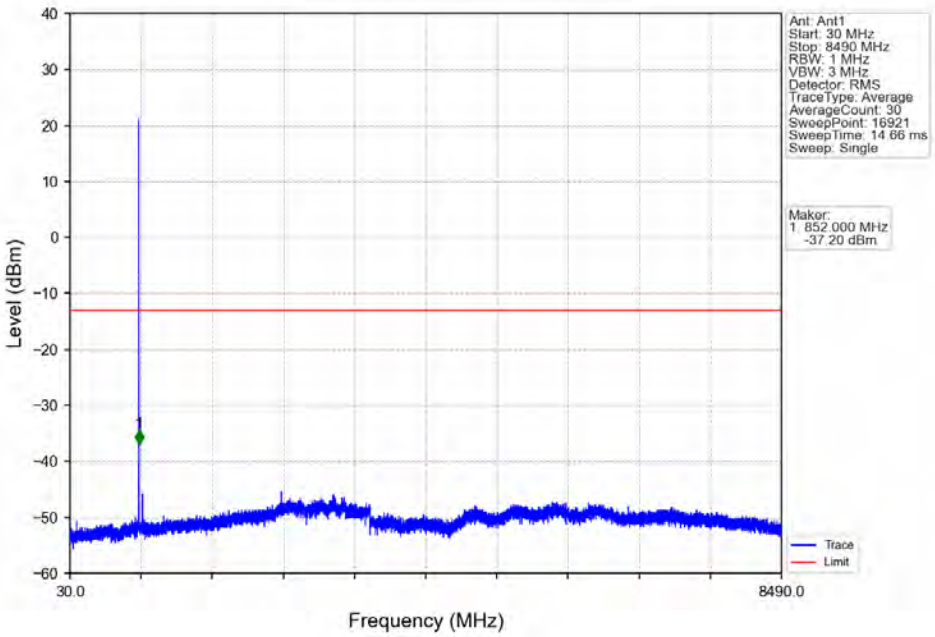


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.926	-41.00	-13	Pass
823	824	0.013	/	2	824.000	-32.27	-13	Pass
824	825.5	0.013	/	/	/	/	/	/

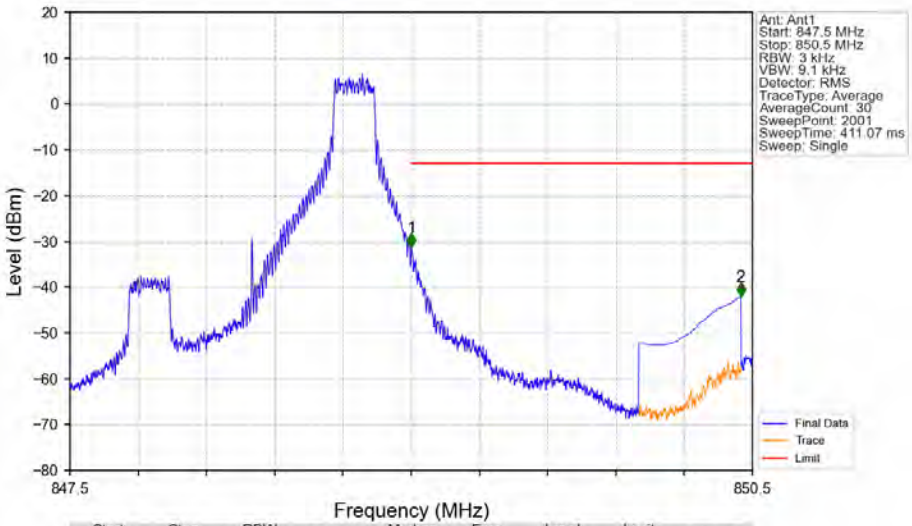
Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_1_0_NTNV

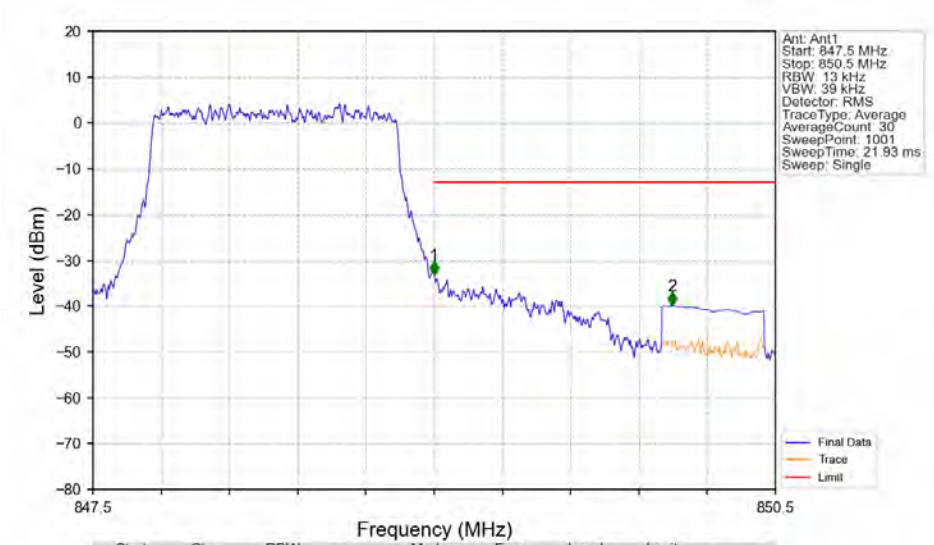


Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_1_5_NTNV



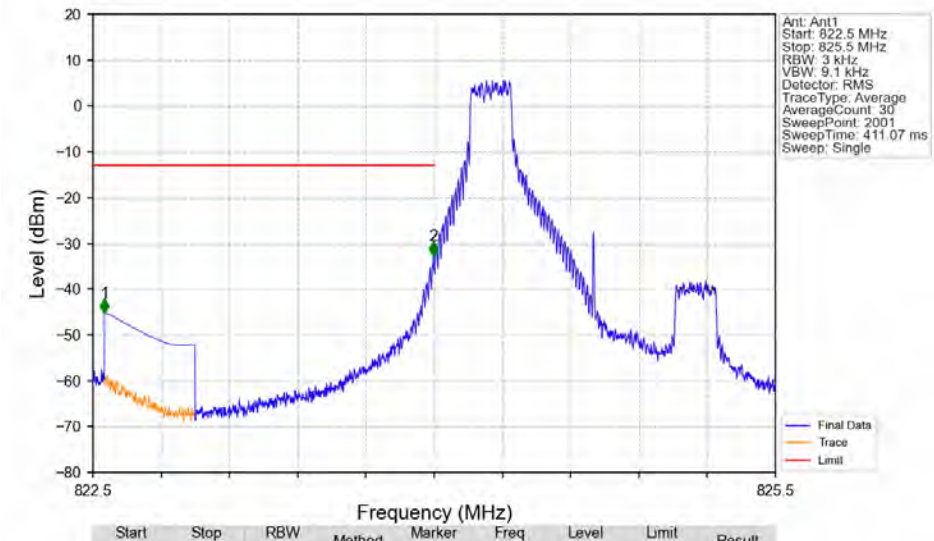
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.001	-31.40	-13	Pass
850	850.5	0.1	CHP	2	850.449	-42.14	-13	Pass

Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



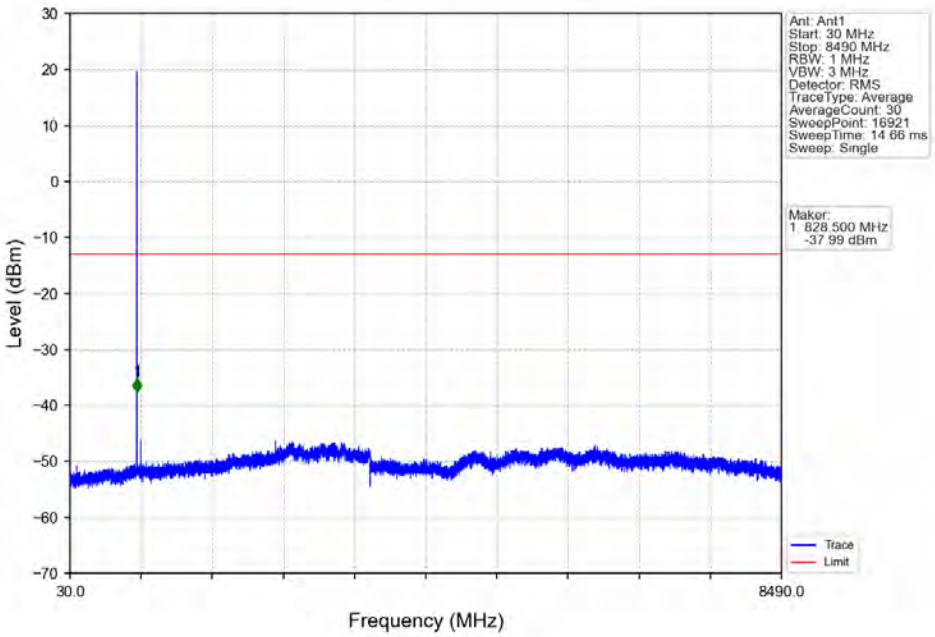
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.013	/	/	/	/	/	/
849	850	0.013	/	1	849.000	-33.24	-13	Pass
850	850.5	0.1	CHP	2	850.047	-39.91	-13	Pass

Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_1_0_NTNV

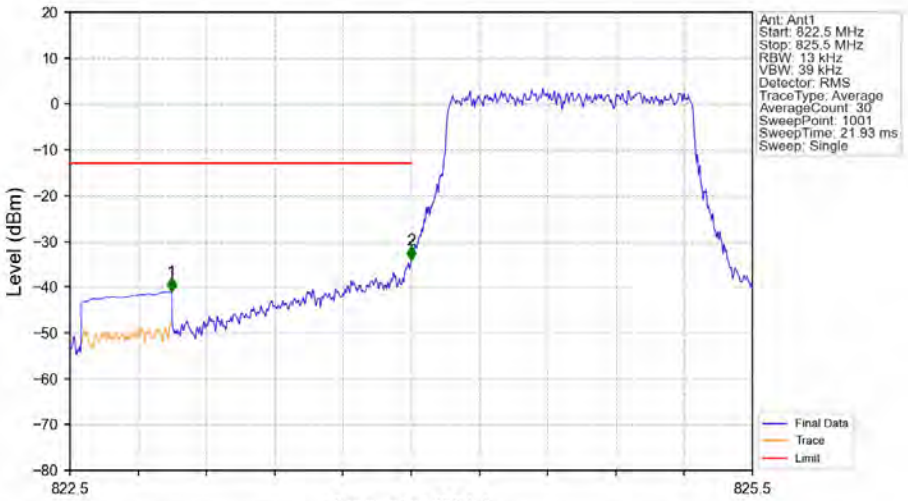


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.551	-45.23	-13	Pass
823	824	0.003	/	2	823.997	-32.73	-13	Pass
824	825.5	0.003	/	/	/	/	/	/

Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_1_0_NTNV

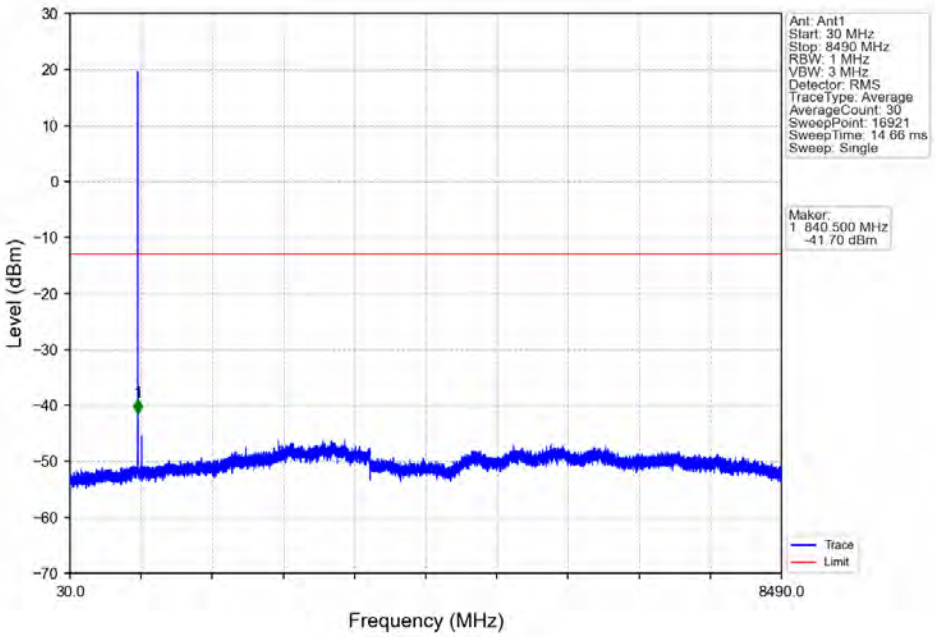


Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV

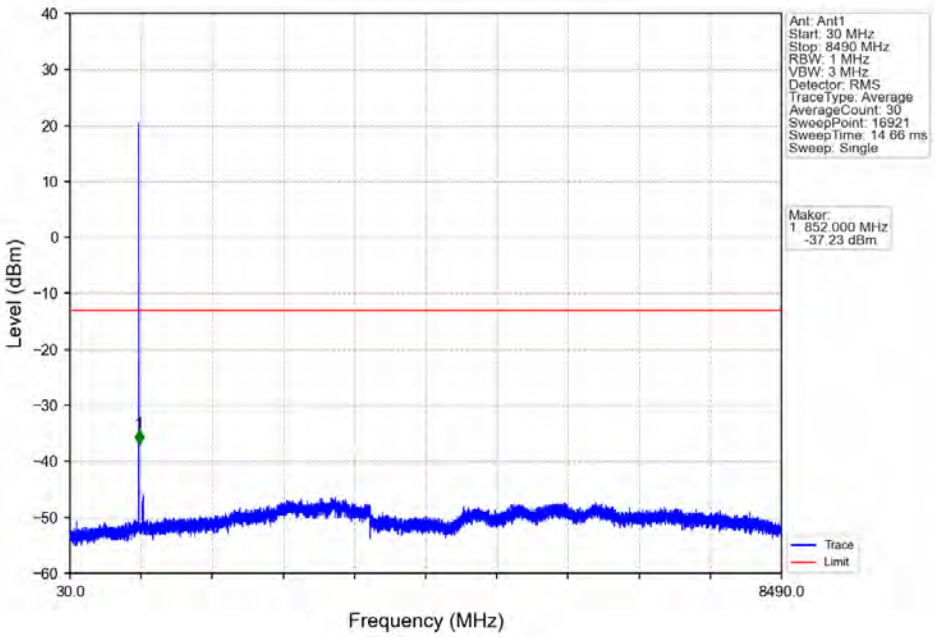


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.947	-40.98	-13	Pass
823	824	0.013	/	2	824.000	-34.18	-13	Pass
824	825.5	0.013	/	/	/	/	/	/

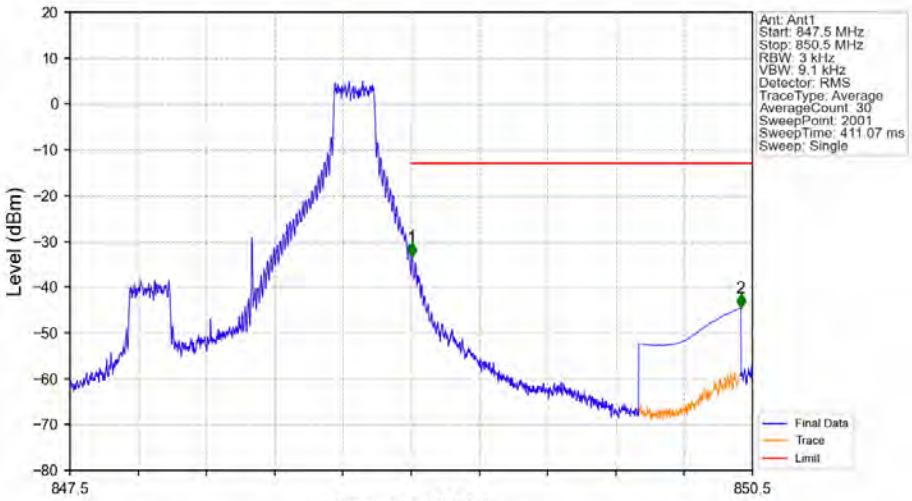
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV



Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_1_0_NTNV

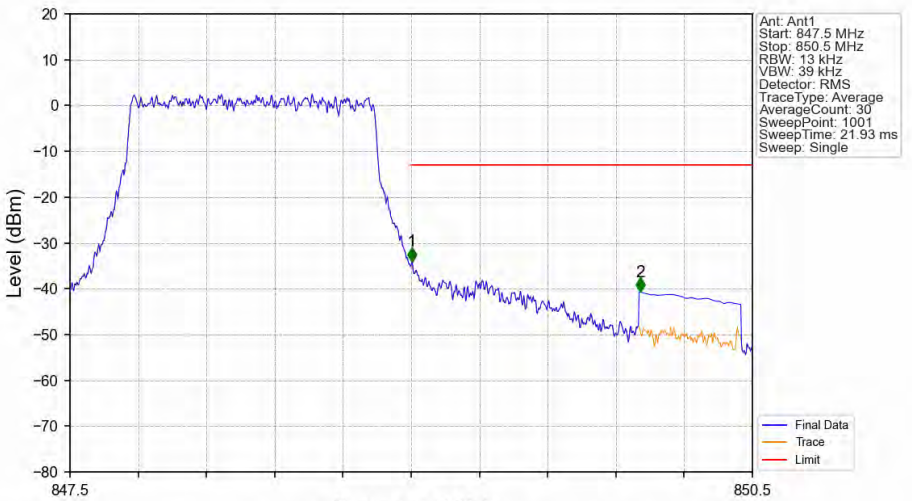


Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_1_5_NTNV



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	849.003	-33.45	-13	Pass
850	850.5	0.1	CHP	2	850.449	-44.57	-13	Pass

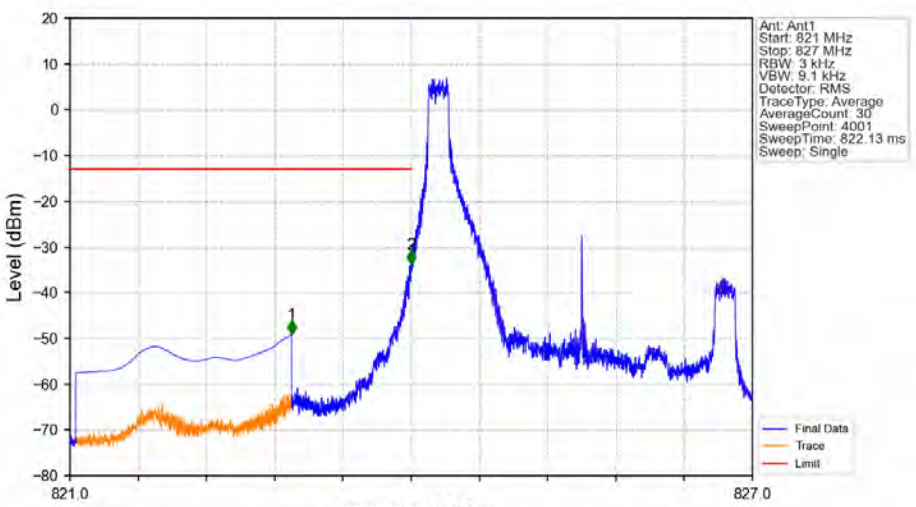
Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



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	849.003	-34.07	-13	Pass
850	850.5	0.1	CHP	2	850.008	-40.68	-13	Pass

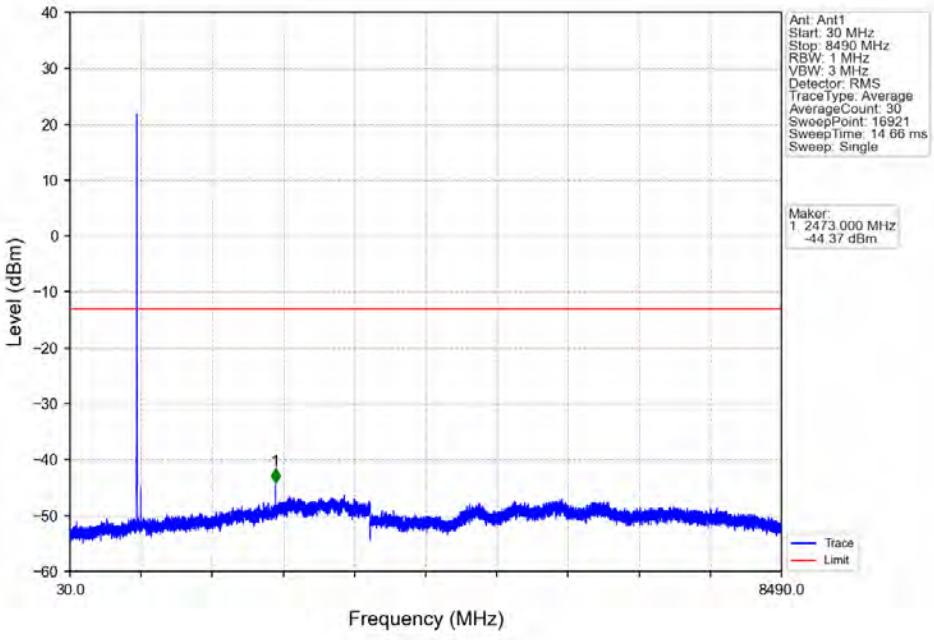
6.2.2 B5_3MHz

Band5_3MHz_QPSK_LCH_825.5MHz_RB_1_0_NTNV

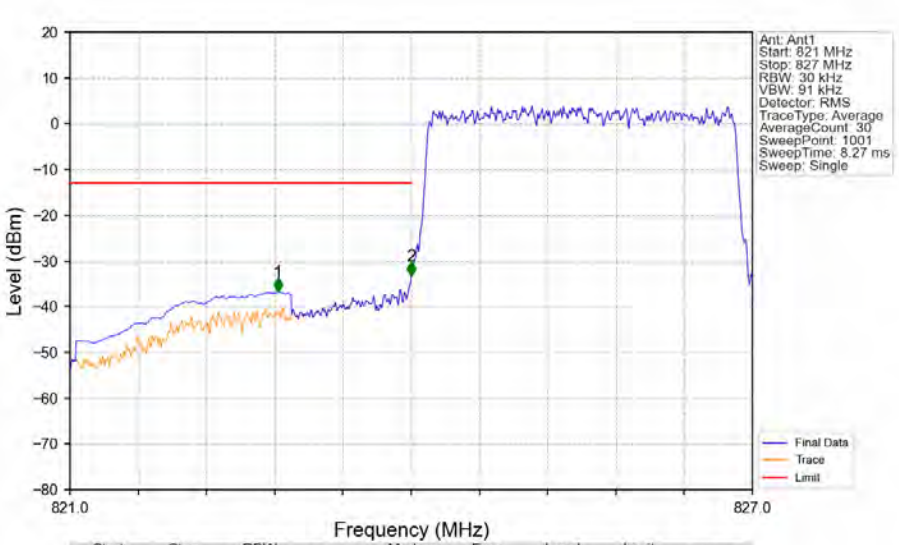


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.948	-49.11	-13	Pass
823	824	0.003	/	2	823.999	-33.86	-13	Pass
824	827	0.003	/	/	/	/	/	/

Band5_3MHz_QPSK_LCH_825.5MHz_RB_1_0_NTNV

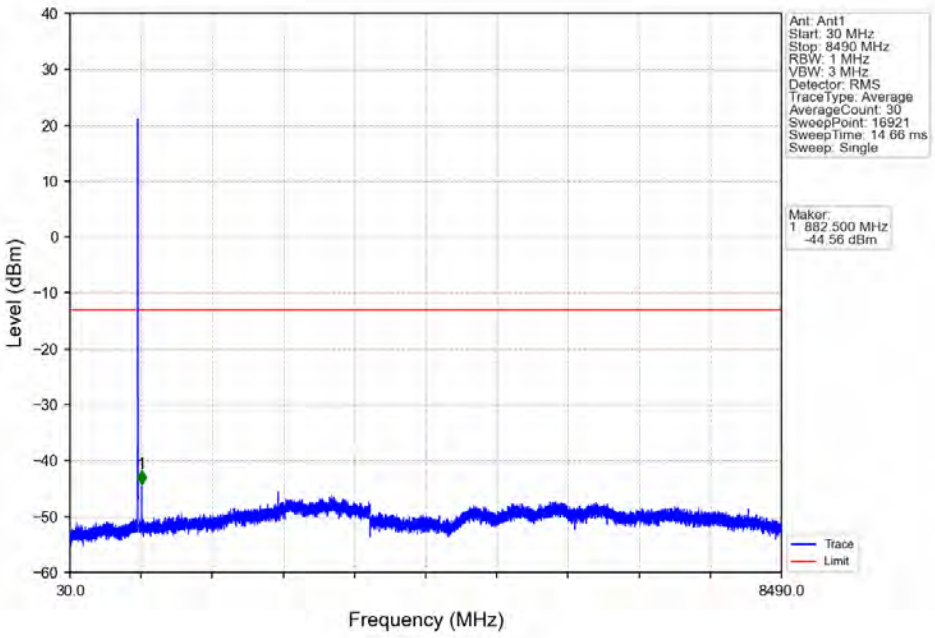


Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV

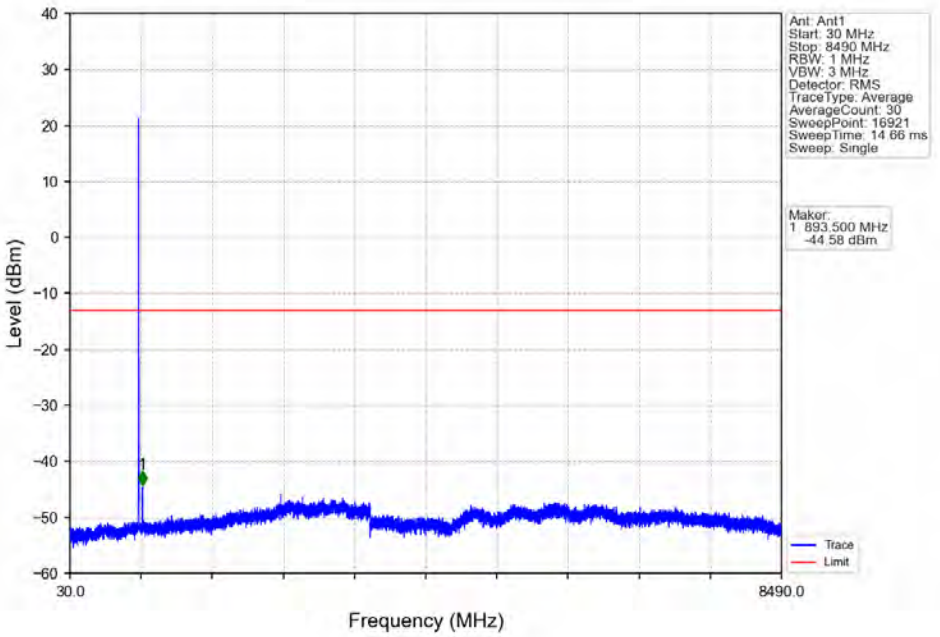


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.830	-36.75	-13	Pass
823	824	0.03	/	2	824.000	-33.28	-13	Pass
824	827	0.03	/	/	/	/	/	/

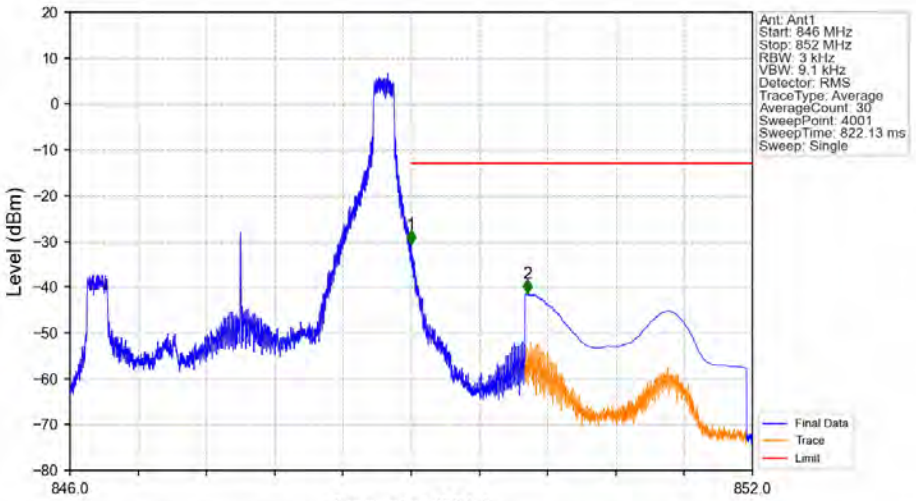
Band5_3MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



Band5_3MHz_QPSK_HCH_847.5MHz_RB_1_0_NTNV

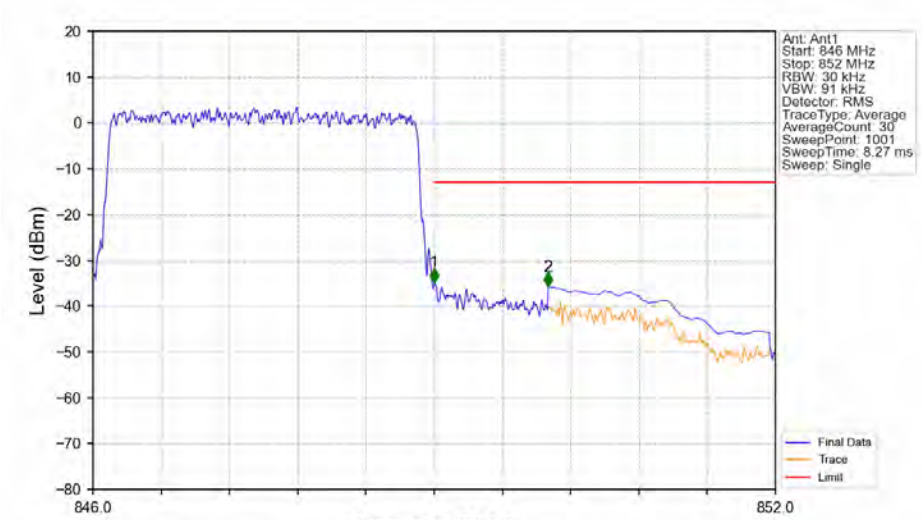


Band5_3MHz_QPSK_HCH_847.5MHz_RB_1_14_NTNV



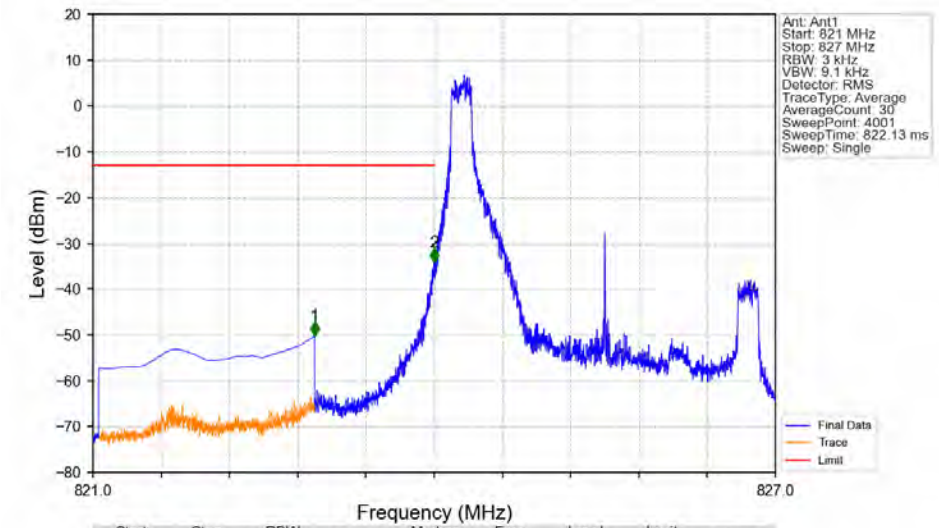
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.000	-30.70	-13	Pass
850	852	0.1	CHP	2	850.023	-41.45	-13	Pass

Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



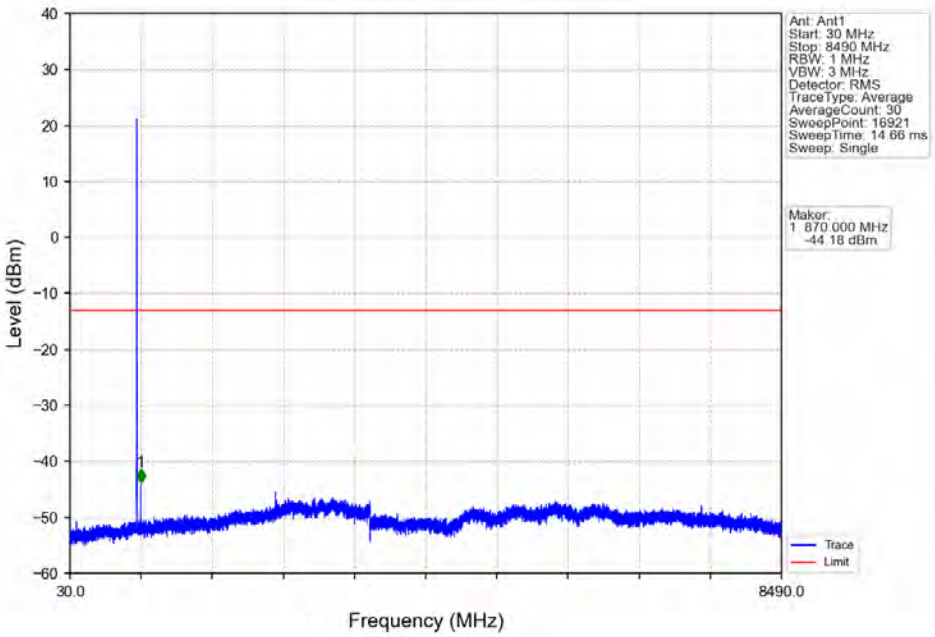
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.03	/	/	/	/	/	/
849	850	0.03	/	1	849.000	-34.79	-13	Pass
850	852	0.1	CHP	2	850.002	-35.74	-13	Pass

Band5_3MHz_16QAM_LCH_825.5MHz_RB_1_0_NTNV

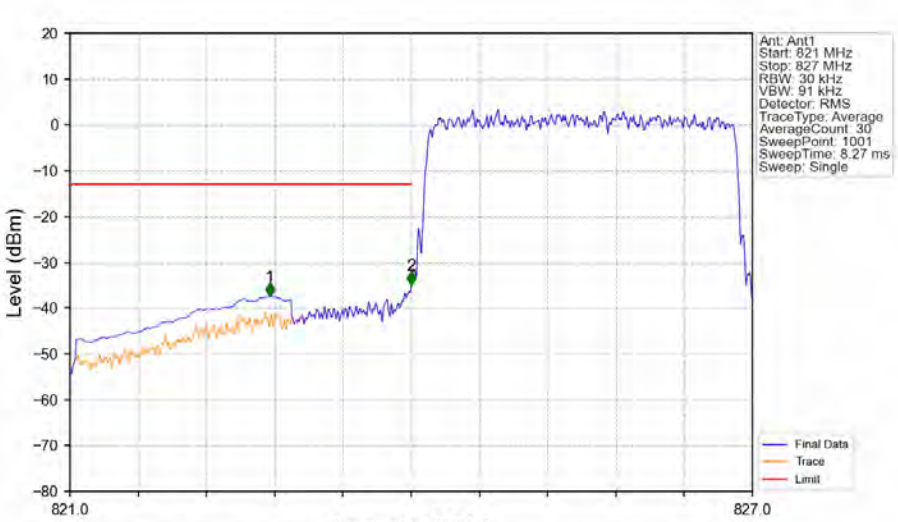


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.948	-50.20	-13	Pass
823	824	0.003	/	2	823.999	-34.20	-13	Pass
824	827	0.003	/	/	/	/	/	/

Band5_3MHz_16QAM_LCH_825.5MHz_RB_1_0_NTNV

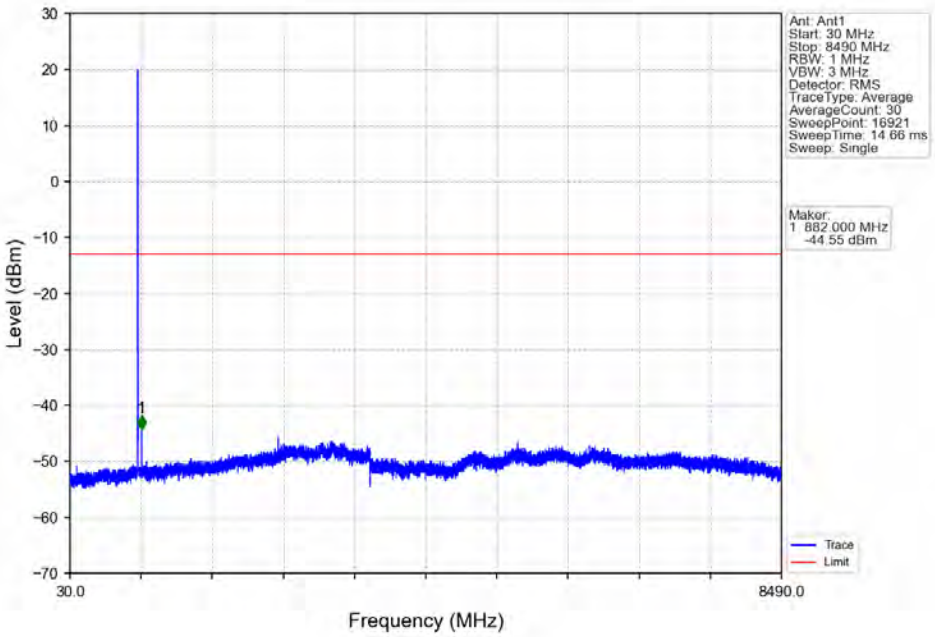


Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV

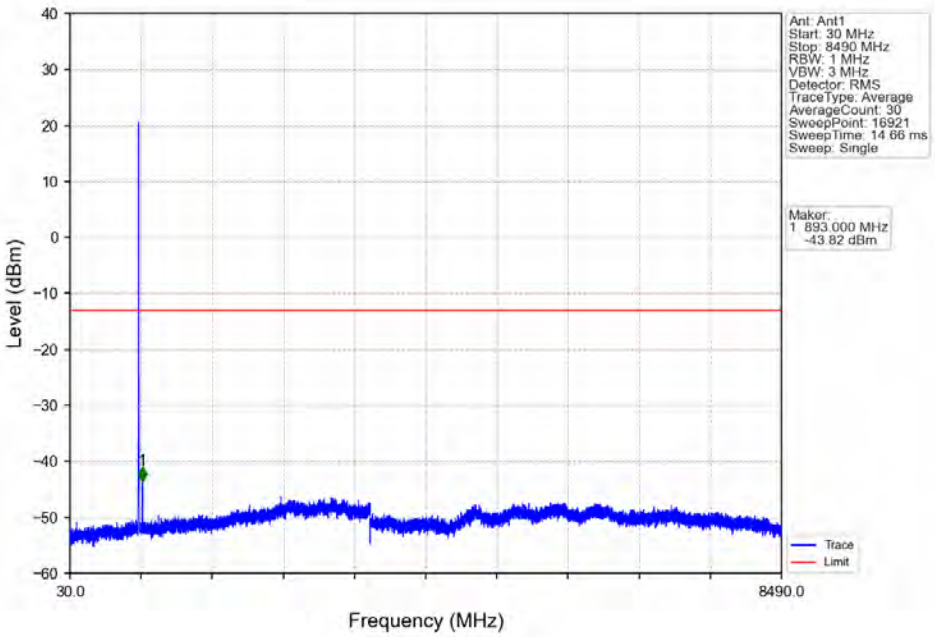


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.758	-37.48	-13	Pass
823	824	0.03	/	2	824.000	-34.99	-13	Pass
824	827	0.03	/	/	/	/	/	/

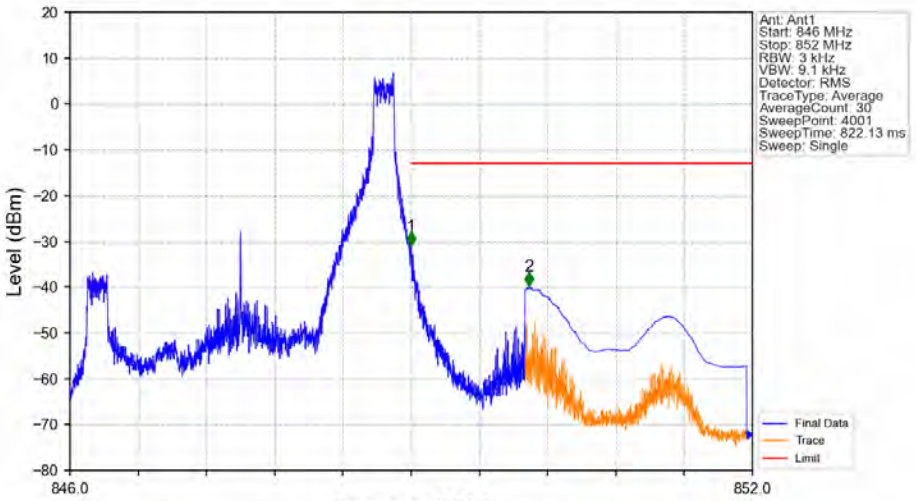
Band5_3MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV



Band5_3MHz_16QAM_HCH_847.5MHz_RB_1_0_NTNV

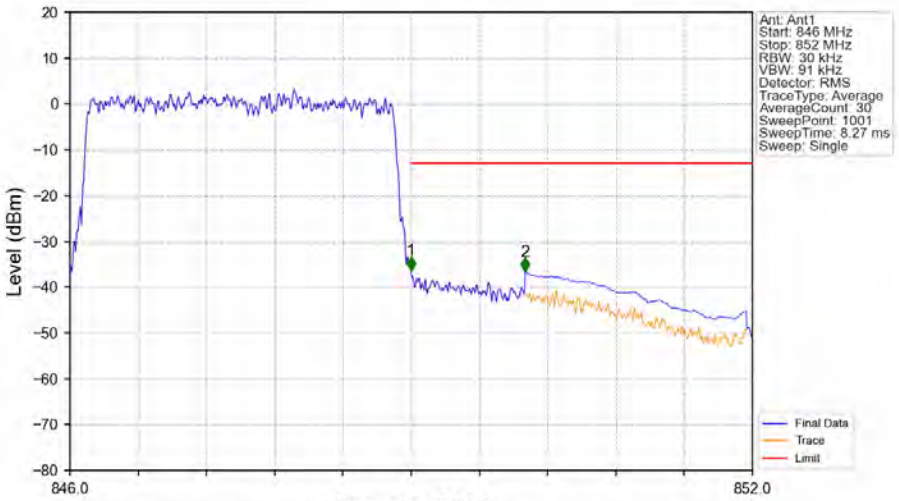


Band5_3MHz_16QAM_HCH_847.5MHz_RB_1_14_NTNV



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	-30.96	-13	Pass
850	852	0.1	CHP	2	850.038	-39.79	-13	Pass

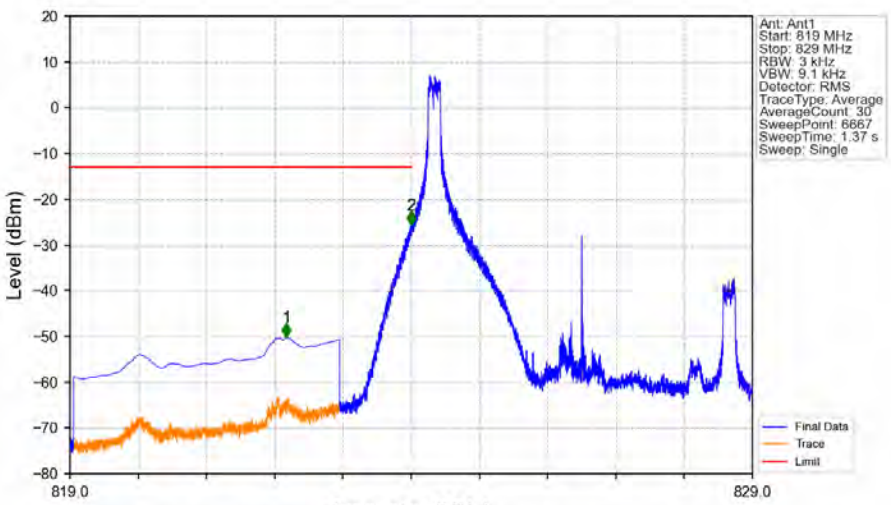
Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.03	/	/	/	/	/	/
849	850	0.03	/	1	849.000	-36.37	-13	Pass
850	852	0.1	CHP	2	850.002	-36.65	-13	Pass

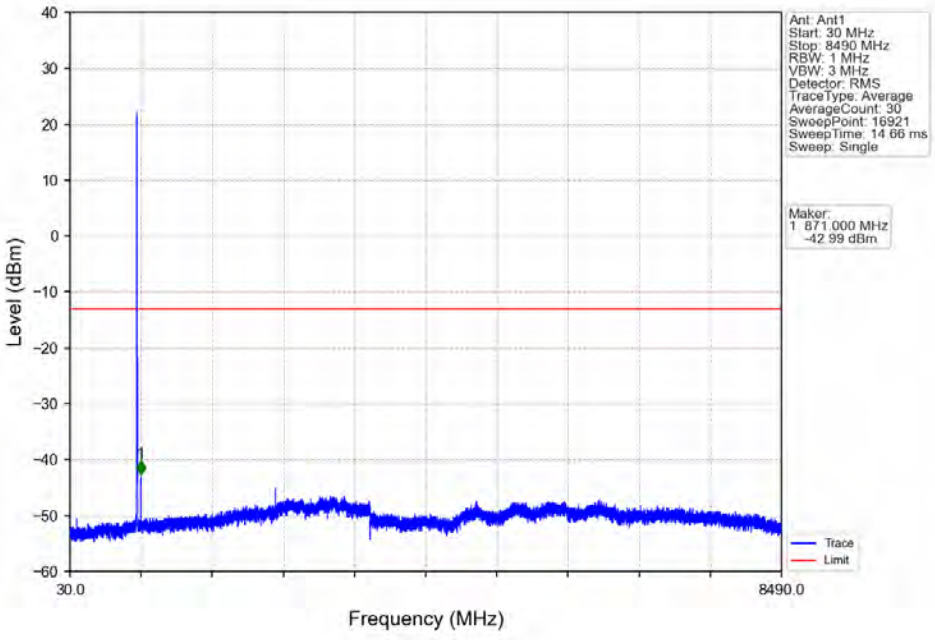
6.2.3 B5_5MHz

Band5_5MHz_QPSK_LCH_826.5MHz_RB_1_0_NTNV

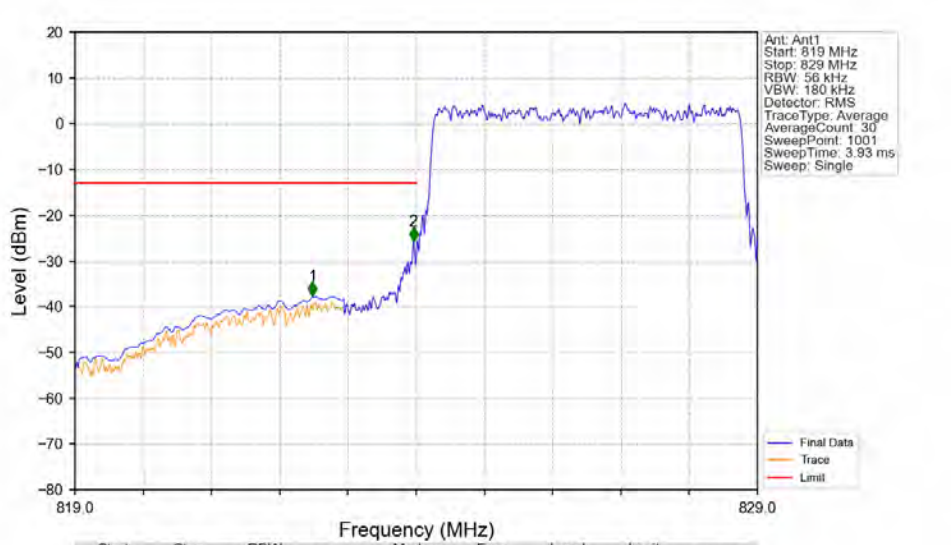


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.171	-50.20	-13	Pass
823	824	0.003	/	2	824.000	-25.62	-13	Pass
824	829	0.003	/	/	/	/	/	/

Band5_5MHz_QPSK_LCH_826.5MHz_RB_1_0_NTNV

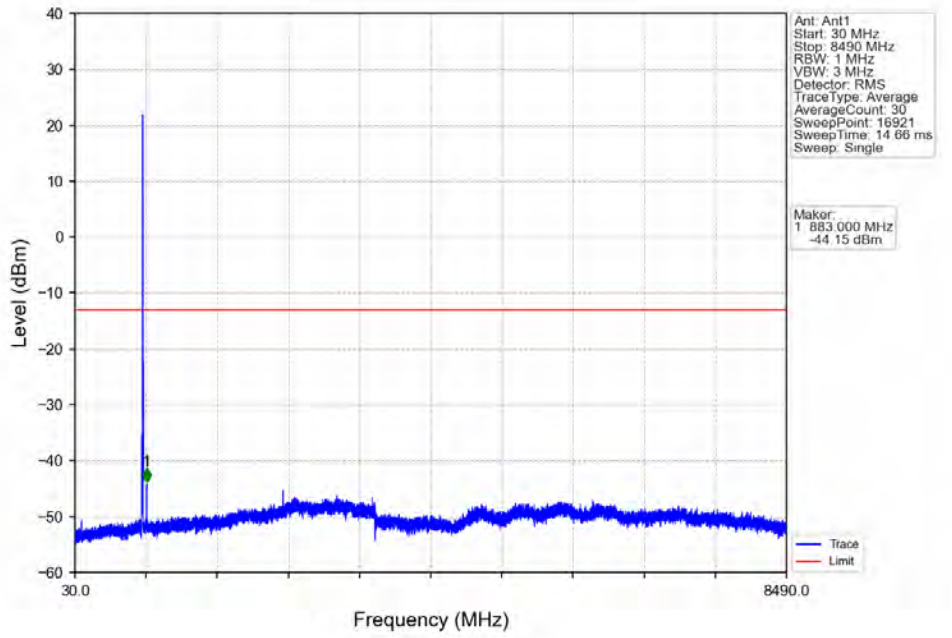


Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV

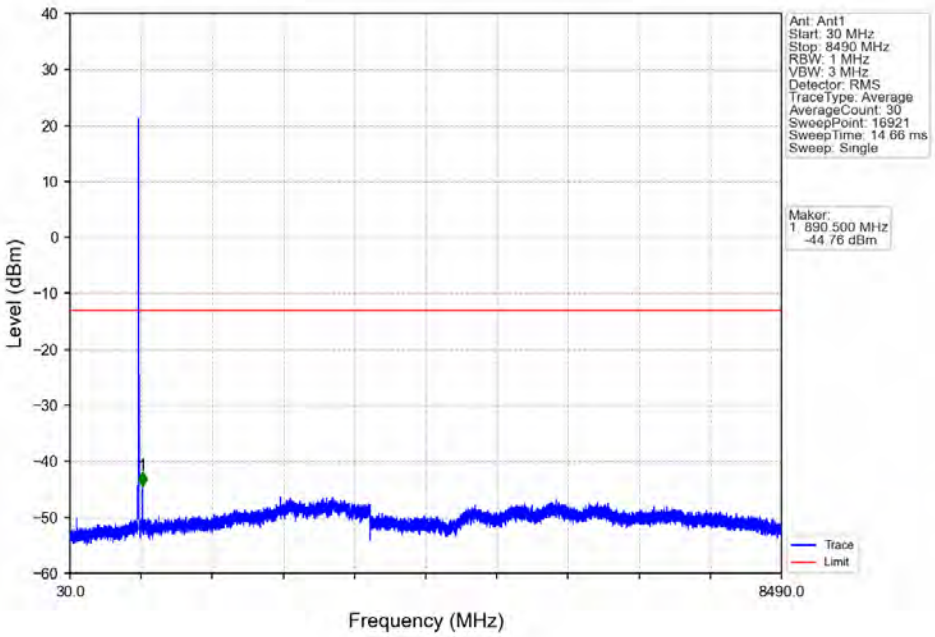


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.480	-37.73	-13	Pass
823	824	0.056	/	2	823.960	-25.72	-13	Pass
824	829	0.056	/	/	/	/	/	/

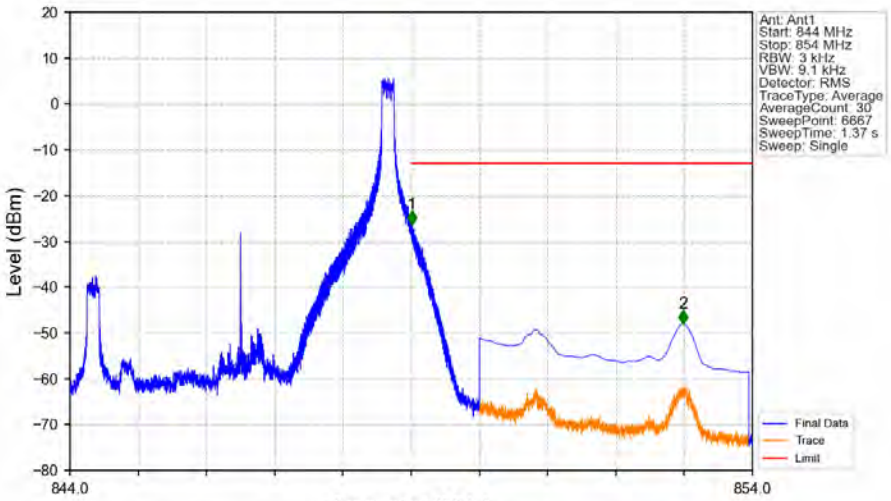
Band5_5MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



Band5_5MHz_QPSK_HCH_846.5MHz_RB_1_0_NTNV

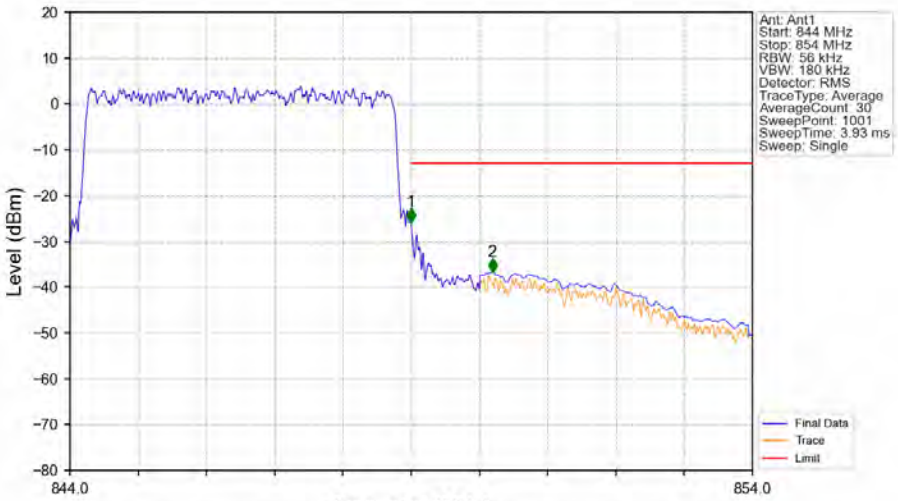


Band5_5MHz_QPSK_HCH_846.5MHz_RB_1_24_NTNV



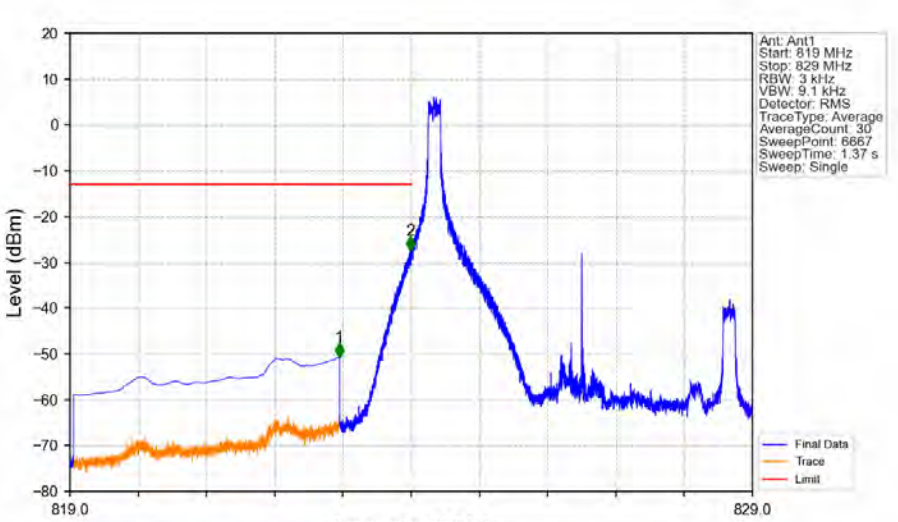
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.009	-26.32	-13	Pass
850	854	0.1	CHP	2	852.981	-48.00	-13	Pass

Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



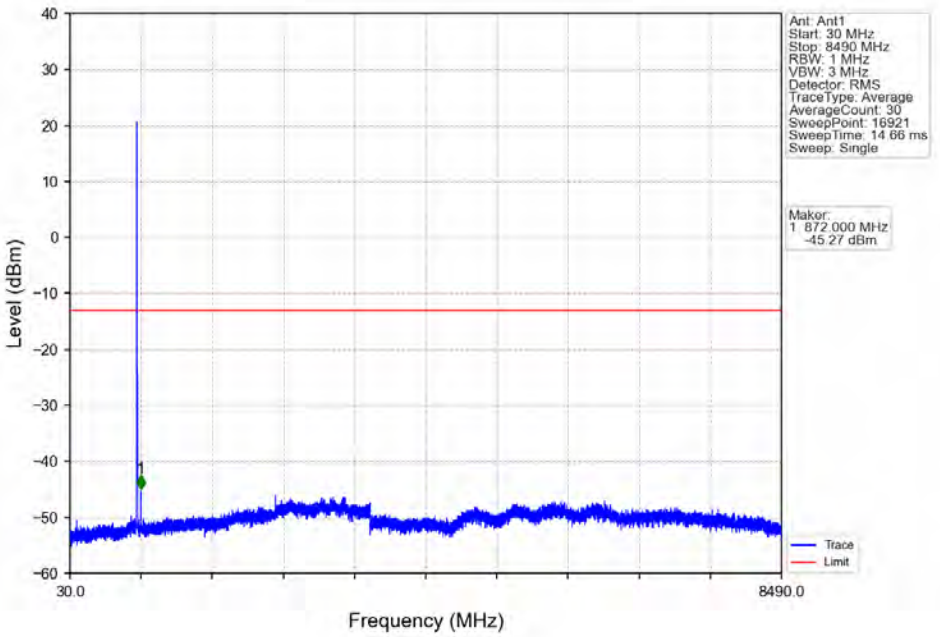
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.056	/	/	/	/	/	/
849	850	0.056	/	1	849.000	-25.79	-13	Pass
850	854	0.1	CHP	2	850.190	-36.72	-13	Pass

Band5_5MHz_16QAM_LCH_826.5MHz_RB_1_0_NTNV

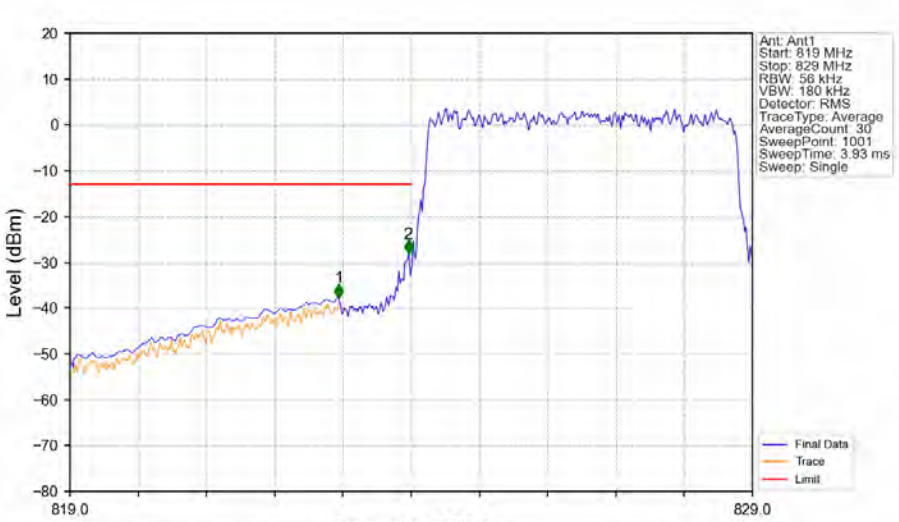


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.948	-50.71	-13	Pass
823	824	0.003	/	2	823.988	-27.51	-13	Pass
824	829	0.003	/	/	/	/	/	/

Band5_5MHz_16QAM_LCH_826.5MHz_RB_1_0_NTNV

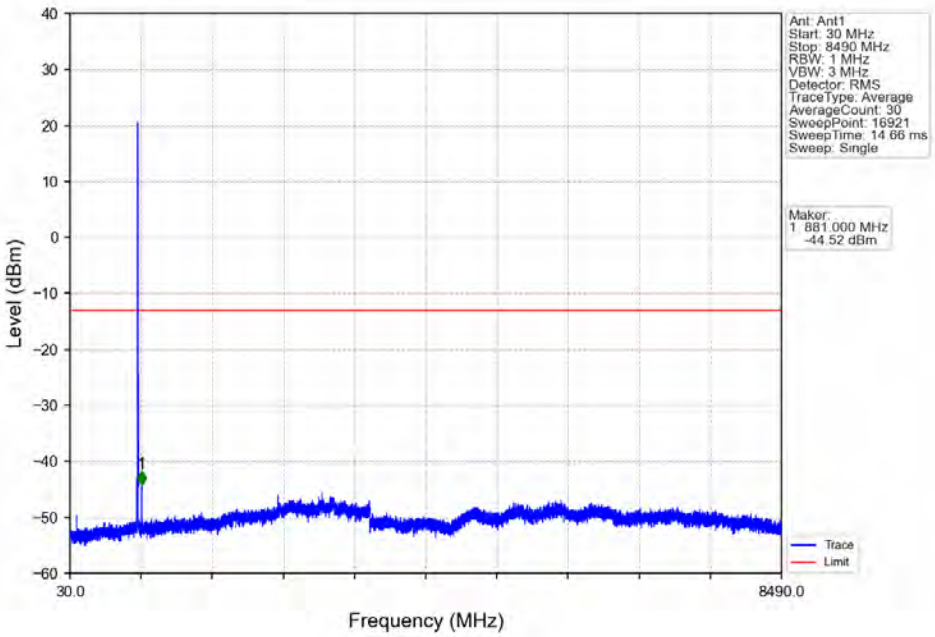


Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV

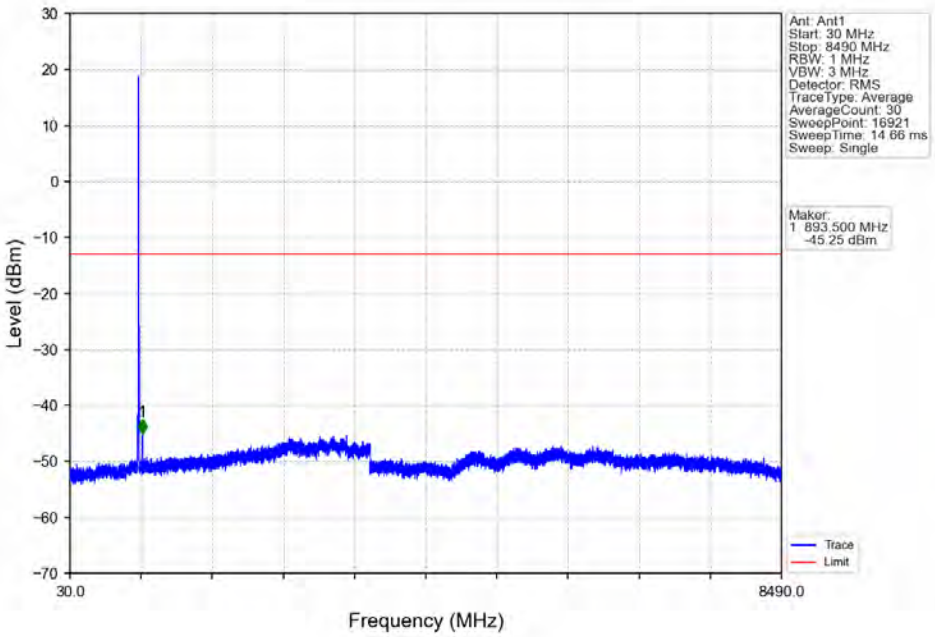


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.940	-37.79	-13	Pass
823	824	0.056	/	2	823.960	-28.20	-13	Pass
824	829	0.056	/	/	/	/	/	/

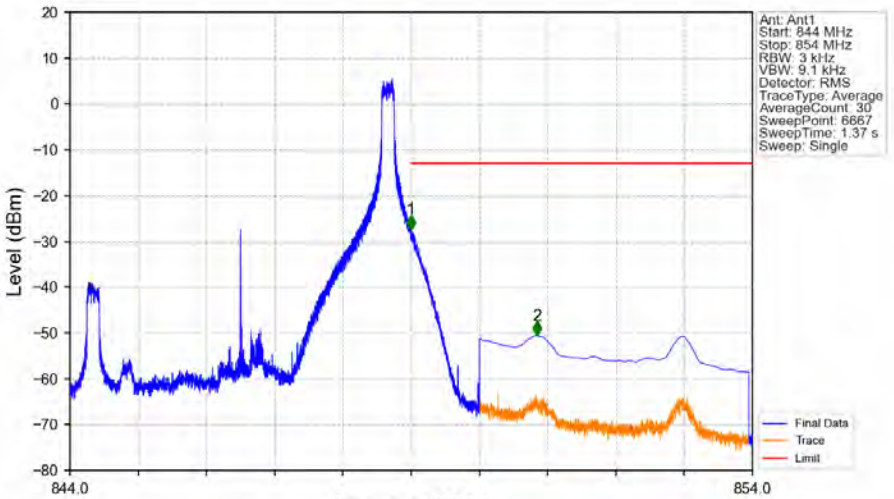
Band5_5MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV



Band5_5MHz_16QAM_HCH_846.5MHz_RB_1_0_NTNV

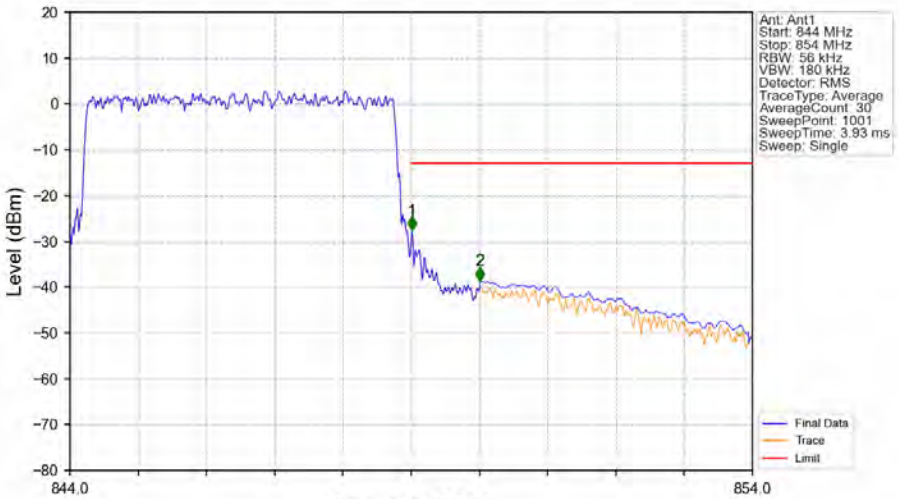


Band5_5MHz_16QAM_HCH_846.5MHz_RB_1_24_NTNV



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	849.000	-27.35	-13	Pass
850	854	0.1	CHP	2	850.842	-50.53	-13	Pass

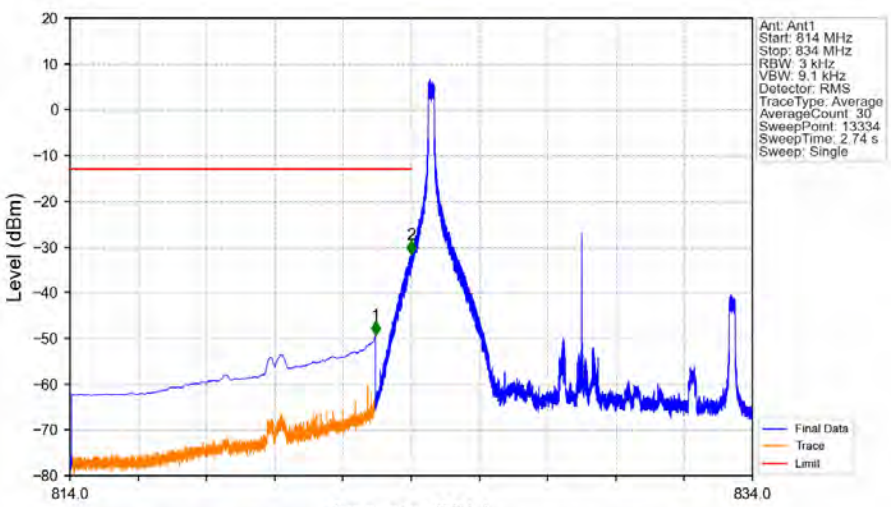
Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.056	/	/	/	/	/	/
849	850	0.056	/	1	849.010	-27.66	-13	Pass
850	854	0.1	CHP	2	850.010	-38.64	-13	Pass

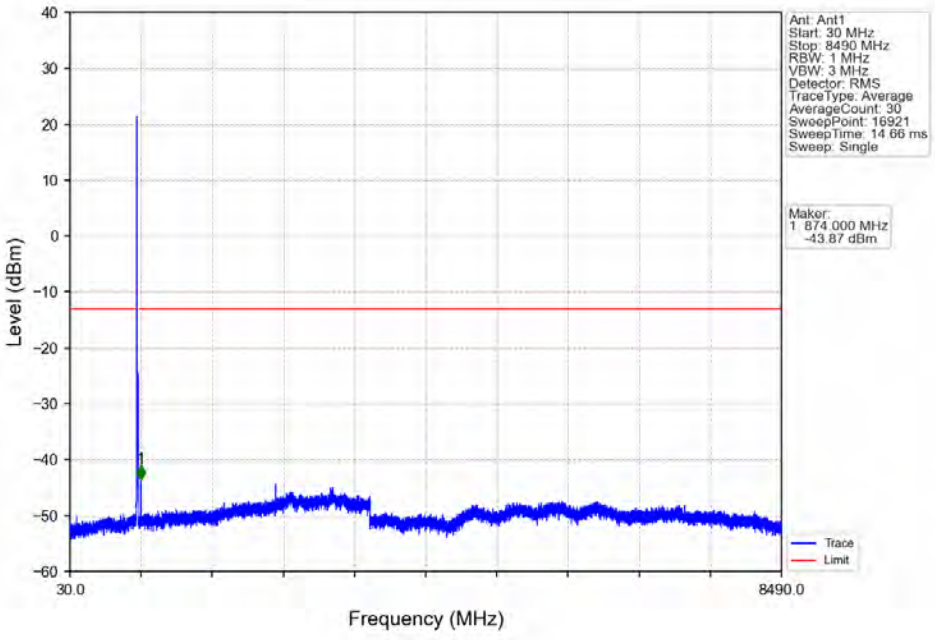
6.2.4 B5_10MHz

Band5_10MHz_QPSK_LCH_829MHz_RB_1_0_NTNV

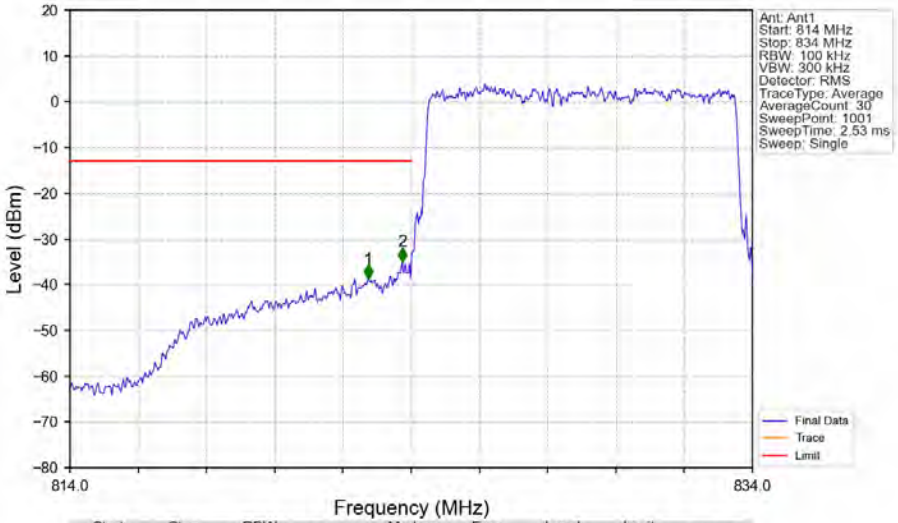


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	823	0.1	CHP	1	822.949	-49.36	-13	Pass
823	824	0.003	/	2	823.999	-31.67	-13	Pass
824	834	0.003	/	/	/	/	/	/

Band5_10MHz_QPSK_LCH_829MHz_RB_1_0_NTNV

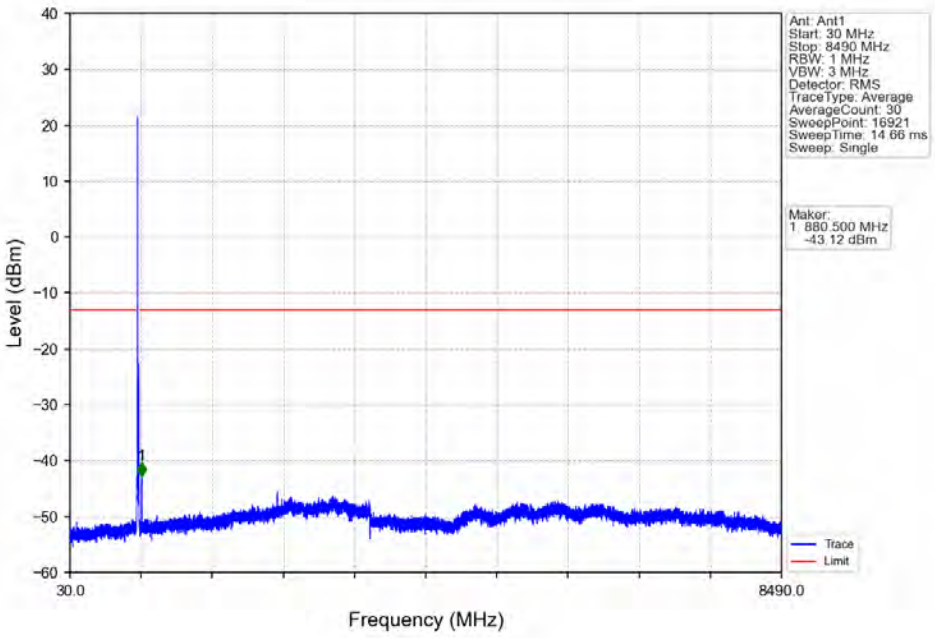


Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV

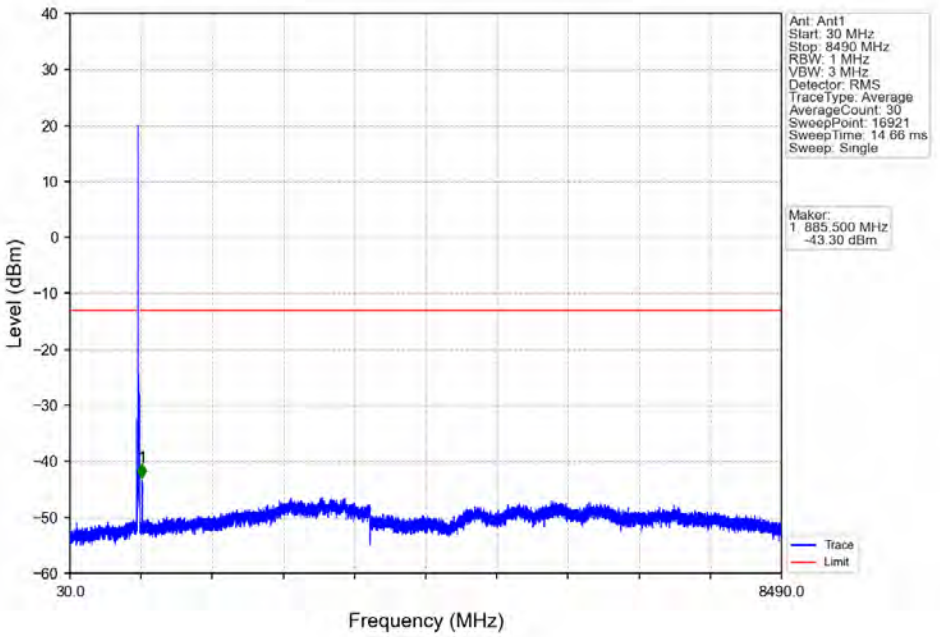


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	823	0.1	/	1	822.740	-38.81	-13	Pass
823	824	0.103	/	2	823.740	-34.93	-13	Pass
824	834	0.103	/	/	/	/	/	/

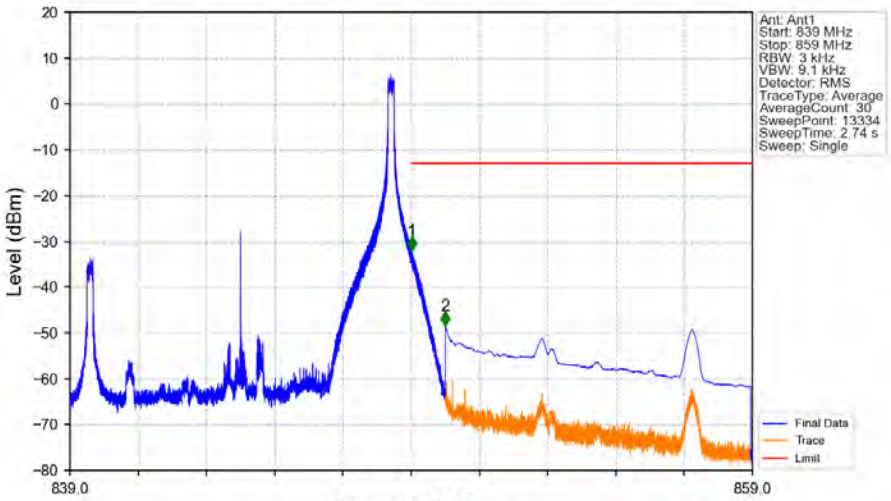
Band5_10MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



Band5_10MHz_QPSK_HCH_844MHz_RB_1_0_NTNV

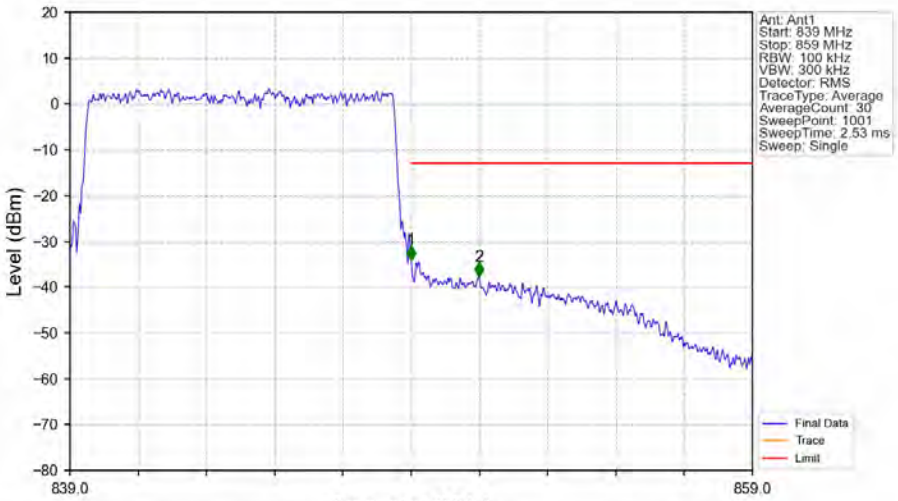


Band5_10MHz_QPSK_HCH_844MHz_RB_1_49_NTNV



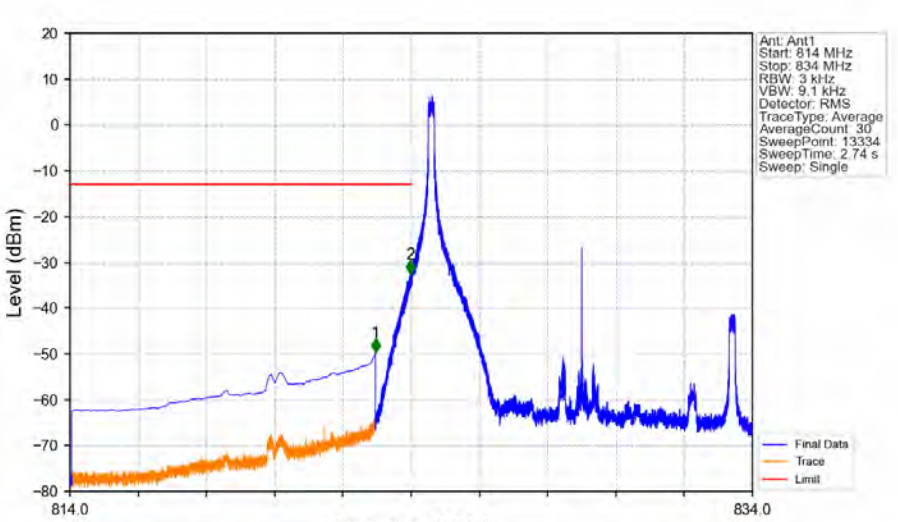
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.013	-31.99	-13	Pass
850	859	0.1	CHP	2	850.001	-48.46	-13	Pass

Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



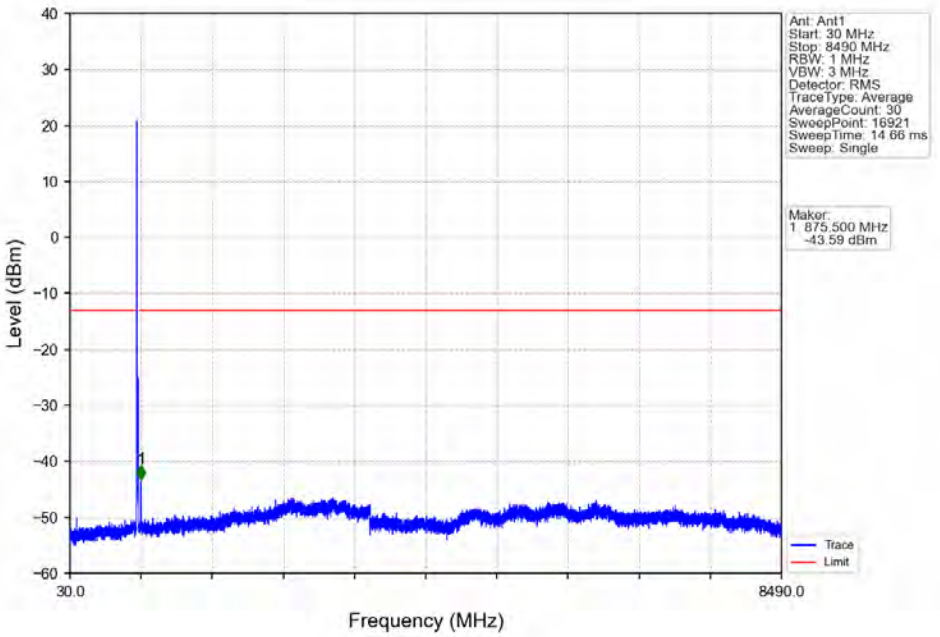
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.105	/	/	/	/	/	/
849	850	0.105	/	1	849.000	-34.06	-13	Pass
850	859	0.1	/	2	850.980	-37.62	-13	Pass

Band5_10MHz_16QAM_LCH_829MHz_RB_1_0_NTNV

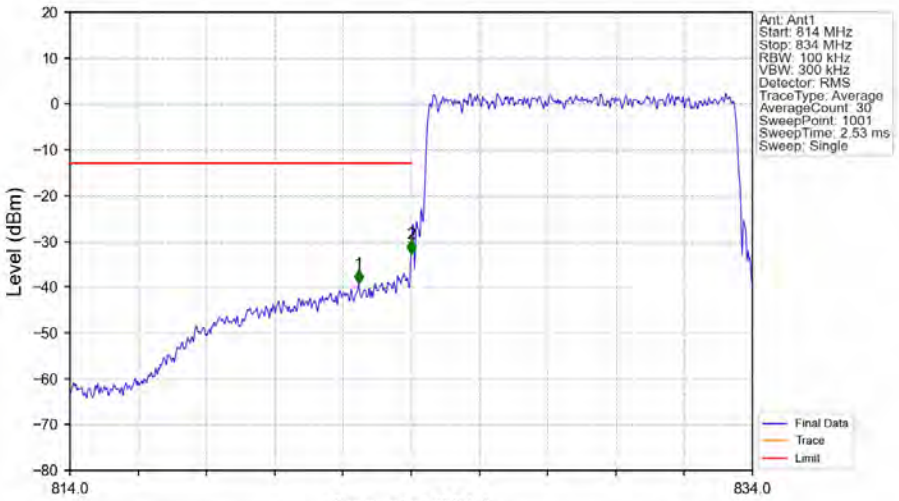


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	823	0.1	CHP	1	822.949	-49.74	-13	Pass
823	824	0.003	/	2	823.987	-32.50	-13	Pass
824	834	0.003	/	/	/	/	/	/

Band5_10MHz_16QAM_LCH_829MHz_RB_1_0_NTNV

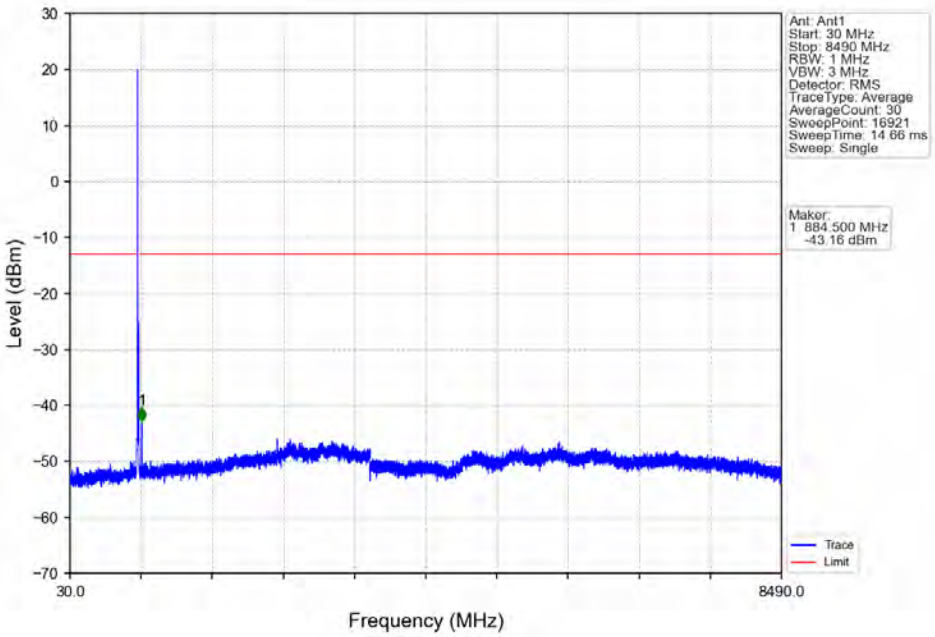


Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV

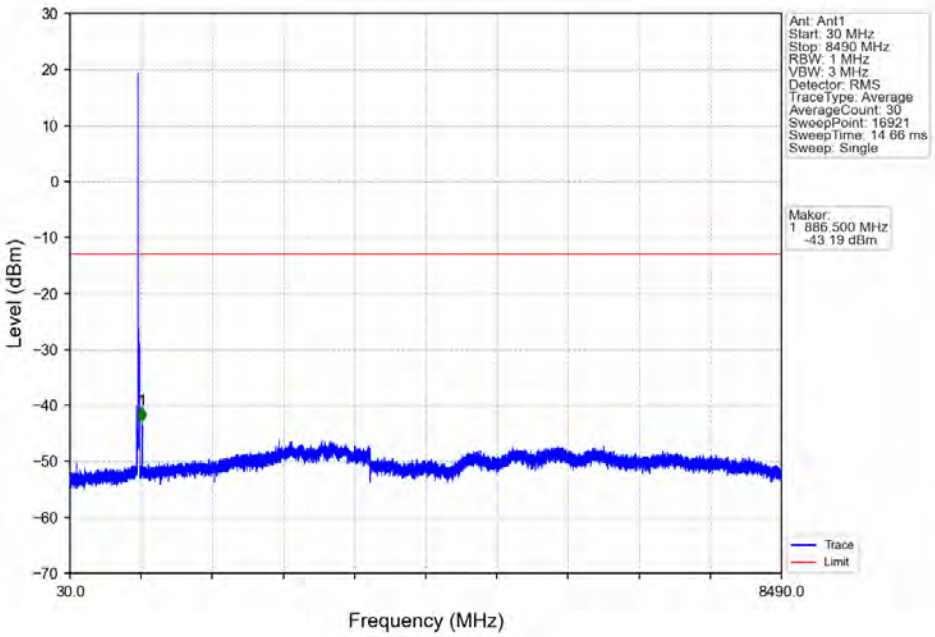


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	823	0.1	/	1	822.460	-39.24	-13	Pass
823	824	0.102	/	2	824.000	-32.76	-13	Pass
824	834	0.102	/	/	/	/	/	/

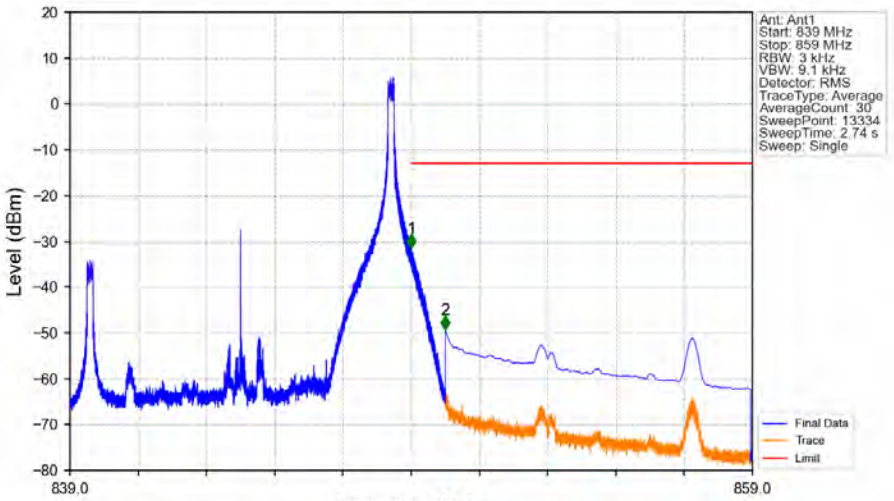
Band5_10MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV



Band5_10MHz_16QAM_HCH_844MHz_RB_1_0_NTNV

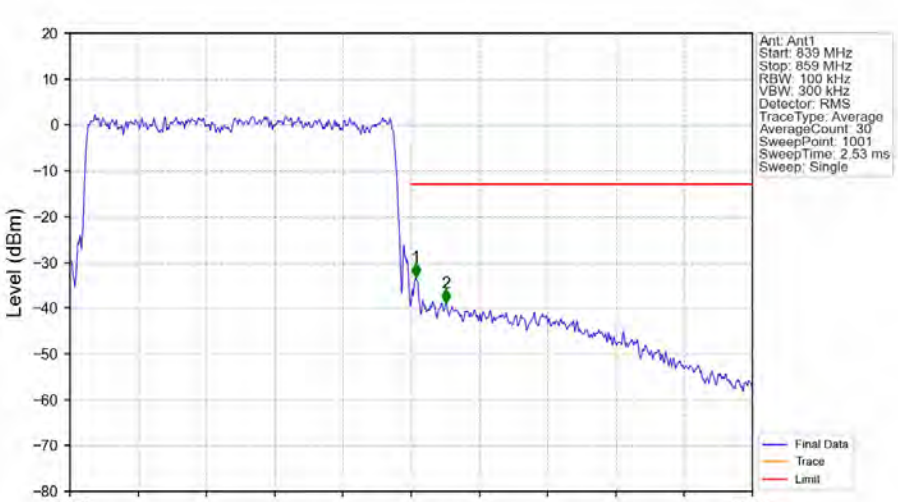


Band5_10MHz_16QAM_HCH_844MHz_RB_1_49_NTNV



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	849.002	-31.57	-13	Pass
850	859	0.1	CHP	2	850.001	-49.33	-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	0.102	/	/	/	/	/	/
849	850	0.102	/	1	849.140	-33.34	-13	Pass
850	859	0.1	/	2	850.020	-38.98	-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	0.1862	0.0228	ppm	1M12G7D	22H	22.70
5	1.4	824.7	848.3	0.1361	0.0158	ppm	1M12W7D	22H	21.34
5	3	825.5	847.5	0.1706	0.0141	ppm	2M73G7D	22H	22.32
5	3	825.5	847.5	0.1514	0.0119	ppm	2M73W7D	22H	21.80
5	5	826.5	846.5	0.1663	0.0126	ppm	4M58G7D	22H	22.21
5	5	826.5	846.5	0.1384	0.0115	ppm	4M61W7D	22H	21.41
5	10	829	844	0.1714	0.0104	ppm	9M08G7D	22H	22.34
5	10	829	844	0.1517	0.0103	ppm	9M09W7D	22H	21.81

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	0.1102	0.0228	ppm	1M12G7D	22H	20.42
5	1.4	824.7	848.3	0.0805	0.0158	ppm	1M12W7D	22H	19.06
5	3	825.5	847.5	0.1009	0.0141	ppm	2M73G7D	22H	20.04
5	3	825.5	847.5	0.0895	0.0119	ppm	2M73W7D	22H	19.52
5	5	826.5	846.5	0.0984	0.0126	ppm	4M58G7D	22H	19.93
5	5	826.5	846.5	0.0818	0.0115	ppm	4M61W7D	22H	19.13
5	10	829	844	0.1014	0.0104	ppm	9M08G7D	22H	20.06
5	10	829	844	0.0897	0.0103	ppm	9M09W7D	22H	19.53