

Appendix Test Data for LTE_band_5

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	24.33	-3.40	18.78	<=38.45	Pass
			2	24.44	-3.40	18.89	<=38.45	Pass
			5	24.36	-3.40	18.81	<=38.45	Pass
		3	0	24.44	-3.40	18.89	<=38.45	Pass
			2	24.46	-3.40	18.91	<=38.45	Pass
			3	24.42	-3.40	18.87	<=38.45	Pass
		6	0	23.41	-3.40	17.86	<=38.45	Pass
	836.5	1	0	24.27	-3.40	18.72	<=38.45	Pass
			2	24.33	-3.40	18.78	<=38.45	Pass
			5	24.24	-3.40	18.69	<=38.45	Pass
		3	0	24.38	-3.40	18.83	<=38.45	Pass
			2	24.41	-3.40	18.86	<=38.45	Pass
			3	24.34	-3.40	18.79	<=38.45	Pass
		6	0	23.37	-3.40	17.82	<=38.45	Pass
	848.3	1	0	24.29	-3.40	18.74	<=38.45	Pass
			2	24.47	-3.40	18.92	<=38.45	Pass
			5	24.33	-3.40	18.78	<=38.45	Pass
		3	0	24.33	-3.40	18.78	<=38.45	Pass
			2	24.35	-3.40	18.80	<=38.45	Pass
			3	24.30	-3.40	18.75	<=38.45	Pass
		6	0	23.39	-3.40	17.84	<=38.45	Pass
16QAM	824.7	1	0	23.45	-3.40	17.90	<=38.45	Pass
			2	23.57	-3.40	18.02	<=38.45	Pass
			5	23.49	-3.40	17.94	<=38.45	Pass
		3	0	23.33	-3.40	17.78	<=38.45	Pass
			2	23.38	-3.40	17.83	<=38.45	Pass
			3	23.35	-3.40	17.80	<=38.45	Pass
		6	0	22.40	-3.40	16.85	<=38.45	Pass
	836.5	1	0	23.27	-3.40	17.72	<=38.45	Pass
			2	23.39	-3.40	17.84	<=38.45	Pass
			5	23.27	-3.40	17.72	<=38.45	Pass
		3	0	23.56	-3.40	18.01	<=38.45	Pass
			2	23.59	-3.40	18.04	<=38.45	Pass
			3	23.57	-3.40	18.02	<=38.45	Pass
		6	0	22.39	-3.40	16.84	<=38.45	Pass
	848.3	1	0	23.24	-3.40	17.69	<=38.45	Pass
			2	23.39	-3.40	17.84	<=38.45	Pass
			5	23.30	-3.40	17.75	<=38.45	Pass
		3	0	23.37	-3.40	17.82	<=38.45	Pass
			2	23.35	-3.40	17.80	<=38.45	Pass
			3	23.32	-3.40	17.77	<=38.45	Pass
		6	0	22.27	-3.40	16.72	<=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	24.39	-3.40	18.84	<=38.45	Pass
			7	24.55	-3.40	19.00	<=38.45	Pass
			14	24.39	-3.40	18.84	<=38.45	Pass
		8	0	23.38	-3.40	17.83	<=38.45	Pass
			4	23.43	-3.40	17.88	<=38.45	Pass
			7	23.37	-3.40	17.82	<=38.45	Pass
		15	0	23.36	-3.40	17.81	<=38.45	Pass
	836.5	1	0	24.34	-3.40	18.79	<=38.45	Pass
			7	24.48	-3.40	18.93	<=38.45	Pass
			14	24.37	-3.40	18.82	<=38.45	Pass
		8	0	23.37	-3.40	17.82	<=38.45	Pass
			4	23.40	-3.40	17.85	<=38.45	Pass
			7	23.40	-3.40	17.85	<=38.45	Pass
		15	0	23.38	-3.40	17.83	<=38.45	Pass
	847.5	1	0	24.28	-3.40	18.73	<=38.45	Pass
			7	24.42	-3.40	18.87	<=38.45	Pass
			14	24.31	-3.40	18.76	<=38.45	Pass
		8	0	23.35	-3.40	17.80	<=38.45	Pass
			4	23.40	-3.40	17.85	<=38.45	Pass
			7	23.38	-3.40	17.83	<=38.45	Pass
		15	0	23.35	-3.40	17.80	<=38.45	Pass
16QAM	825.5	1	0	23.86	-3.40	18.31	<=38.45	Pass
			7	23.98	-3.40	18.43	<=38.45	Pass
			14	23.85	-3.40	18.30	<=38.45	Pass
		8	0	22.52	-3.40	16.97	<=38.45	Pass
			4	22.61	-3.40	17.06	<=38.45	Pass
			7	22.55	-3.40	17.00	<=38.45	Pass
		15	0	22.43	-3.40	16.88	<=38.45	Pass
	836.5	1	0	23.41	-3.40	17.86	<=38.45	Pass
			7	23.52	-3.40	17.97	<=38.45	Pass
			14	23.37	-3.40	17.82	<=38.45	Pass
		8	0	22.42	-3.40	16.87	<=38.45	Pass
			4	22.49	-3.40	16.94	<=38.45	Pass
			7	22.41	-3.40	16.86	<=38.45	Pass
		15	0	22.42	-3.40	16.87	<=38.45	Pass
	847.5	1	0	23.47	-3.40	17.92	<=38.45	Pass
			7	23.59	-3.40	18.04	<=38.45	Pass
			14	23.46	-3.40	17.91	<=38.45	Pass
		8	0	22.32	-3.40	16.77	<=38.45	Pass
			4	22.37	-3.40	16.82	<=38.45	Pass
			7	22.31	-3.40	16.76	<=38.45	Pass
		15	0	22.32	-3.40	16.77	<=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	24.27	-3.40	18.72	<=38.45	Pass
			13	24.45	-3.40	18.90	<=38.45	Pass
			24	24.26	-3.40	18.71	<=38.45	Pass
		12	0	23.33	-3.40	17.78	<=38.45	Pass
			6	23.41	-3.40	17.86	<=38.45	Pass
			13	23.35	-3.40	17.80	<=38.45	Pass
		25	0	23.32	-3.40	17.77	<=38.45	Pass
	836.5	1	0	24.20	-3.40	18.65	<=38.45	Pass
			13	24.27	-3.40	18.72	<=38.45	Pass
			24	24.21	-3.40	18.66	<=38.45	Pass
		12	0	23.25	-3.40	17.70	<=38.45	Pass
			6	23.40	-3.40	17.85	<=38.45	Pass
			13	23.33	-3.40	17.78	<=38.45	Pass
		25	0	23.32	-3.40	17.77	<=38.45	Pass
	846.5	1	0	24.18	-3.40	18.63	<=38.45	Pass
			13	24.29	-3.40	18.74	<=38.45	Pass
			24	24.24	-3.40	18.69	<=38.45	Pass
		12	0	23.33	-3.40	17.78	<=38.45	Pass
			6	23.34	-3.40	17.79	<=38.45	Pass
			13	23.33	-3.40	17.78	<=38.45	Pass
		25	0	23.31	-3.40	17.76	<=38.45	Pass
16QAM	826.5	1	0	23.31	-3.40	17.76	<=38.45	Pass
			13	23.51	-3.40	17.96	<=38.45	Pass
			24	23.39	-3.40	17.84	<=38.45	Pass
		12	0	22.30	-3.40	16.75	<=38.45	Pass
			6	22.36	-3.40	16.81	<=38.45	Pass
			13	22.33	-3.40	16.78	<=38.45	Pass
		25	0	22.39	-3.40	16.84	<=38.45	Pass
	836.5	1	0	23.49	-3.40	17.94	<=38.45	Pass
			13	23.55	-3.40	18.00	<=38.45	Pass
			24	23.43	-3.40	17.88	<=38.45	Pass
		12	0	22.29	-3.40	16.74	<=38.45	Pass
			6	22.42	-3.40	16.87	<=38.45	Pass
			13	22.37	-3.40	16.82	<=38.45	Pass
		25	0	22.32	-3.40	16.77	<=38.45	Pass
	846.5	1	0	23.09	-3.40	17.54	<=38.45	Pass
			13	23.17	-3.40	17.62	<=38.45	Pass
			24	23.03	-3.40	17.48	<=38.45	Pass
		12	0	22.35	-3.40	16.80	<=38.45	Pass
			6	22.34	-3.40	16.79	<=38.45	Pass
			13	22.31	-3.40	16.76	<=38.45	Pass
		25	0	22.36	-3.40	16.81	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

1.1.4 B5_10MHz_ERP

Band: 5 / Bandwidth: 10MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	829	1	0	24.35	-3.40	18.80	<=38.45	Pass
			25	24.50	-3.40	18.95	<=38.45	Pass
			49	24.27	-3.40	18.72	<=38.45	Pass
		25	0	23.44	-3.40	17.89	<=38.45	Pass
			13	23.39	-3.40	17.84	<=38.45	Pass
			25	23.36	-3.40	17.81	<=38.45	Pass
		50	0	23.44	-3.40	17.89	<=38.45	Pass
			0	24.31	-3.40	18.76	<=38.45	Pass
			25	24.51	-3.40	18.96	<=38.45	Pass
	836.5	1	49	24.35	-3.40	18.80	<=38.45	Pass
			0	23.31	-3.40	17.76	<=38.45	Pass
			13	23.38	-3.40	17.83	<=38.45	Pass
		25	25	23.38	-3.40	17.83	<=38.45	Pass
			0	23.38	-3.40	17.83	<=38.45	Pass
			0	24.26	-3.40	18.71	<=38.45	Pass
		25	25	24.44	-3.40	18.89	<=38.45	Pass
			49	24.29	-3.40	18.74	<=38.45	Pass
			0	23.46	-3.40	17.91	<=38.45	Pass
	844	25	13	23.35	-3.40	17.80	<=38.45	Pass
			25	23.31	-3.40	17.76	<=38.45	Pass
			0	23.45	-3.40	17.90	<=38.45	Pass
16QAM	829	1	0	23.78	-3.40	18.23	<=38.45	Pass
			25	24.02	-3.40	18.47	<=38.45	Pass
			49	23.87	-3.40	18.32	<=38.45	Pass
		25	0	22.54	-3.40	16.99	<=38.45	Pass
			13	22.47	-3.40	16.92	<=38.45	Pass
			25	22.49	-3.40	16.94	<=38.45	Pass
		50	0	22.48	-3.40	16.93	<=38.45	Pass
			0	23.34	-3.40	17.79	<=38.45	Pass
			25	23.48	-3.40	17.93	<=38.45	Pass
	836.5	1	49	23.34	-3.40	17.79	<=38.45	Pass
			0	22.45	-3.40	16.90	<=38.45	Pass
			13	22.50	-3.40	16.95	<=38.45	Pass
		25	25	22.46	-3.40	16.91	<=38.45	Pass
			0	22.41	-3.40	16.86	<=38.45	Pass
			0	23.45	-3.40	17.90	<=38.45	Pass
		25	25	23.58	-3.40	18.03	<=38.45	Pass
			49	23.44	-3.40	17.89	<=38.45	Pass
			0	22.46	-3.40	16.91	<=38.45	Pass
	844	25	13	22.40	-3.40	16.85	<=38.45	Pass
			25	22.33	-3.40	16.78	<=38.45	Pass
			0	22.42	-3.40	16.87	<=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	-4.892	-0.0059	-2.5 to 2.5	Pass
					3.85	-6.008	-0.0073	-2.5 to 2.5	Pass
					4.43	-5.951	-0.0072	-2.5 to 2.5	Pass
				-30	3.85	-9.785	-0.0119	-2.5 to 2.5	Pass
				-20	3.85	-5.364	-0.0065	-2.5 to 2.5	Pass
				-10	3.85	-9.913	-0.0120	-2.5 to 2.5	Pass
				0	3.85	-7.997	-0.0097	-2.5 to 2.5	Pass
				10	3.85	-5.579	-0.0068	-2.5 to 2.5	Pass
				30	3.85	-4.606	-0.0056	-2.5 to 2.5	Pass
				40	3.85	-4.935	-0.0060	-2.5 to 2.5	Pass
				50	3.85	-8.569	-0.0104	-2.5 to 2.5	Pass
	836.5	6	0	20	3.27	-8.340	-0.0100	-2.5 to 2.5	Pass
					3.85	-8.025	-0.0096	-2.5 to 2.5	Pass
					4.43	-7.796	-0.0093	-2.5 to 2.5	Pass
				-30	3.85	-5.765	-0.0069	-2.5 to 2.5	Pass
				-20	3.85	-7.939	-0.0095	-2.5 to 2.5	Pass
				-10	3.85	-7.067	-0.0084	-2.5 to 2.5	Pass
				0	3.85	-5.851	-0.0070	-2.5 to 2.5	Pass
				10	3.85	-6.194	-0.0074	-2.5 to 2.5	Pass
				30	3.85	-5.836	-0.0070	-2.5 to 2.5	Pass
				40	3.85	-5.536	-0.0066	-2.5 to 2.5	Pass
				50	3.85	-8.526	-0.0102	-2.5 to 2.5	Pass
	848.3	6	0	20	3.27	-1.101	-0.0013	-2.5 to 2.5	Pass
					3.85	-5.736	-0.0068	-2.5 to 2.5	Pass
					4.43	-2.360	-0.0028	-2.5 to 2.5	Pass
				-30	3.85	-5.035	-0.0059	-2.5 to 2.5	Pass
				-20	3.85	-4.077	-0.0048	-2.5 to 2.5	Pass
				-10	3.85	-3.734	-0.0044	-2.5 to 2.5	Pass
				0	3.85	-5.021	-0.0059	-2.5 to 2.5	Pass
				10	3.85	-3.748	-0.0044	-2.5 to 2.5	Pass
				30	3.85	-6.924	-0.0082	-2.5 to 2.5	Pass
				40	3.85	-5.693	-0.0067	-2.5 to 2.5	Pass
				50	3.85	-6.452	-0.0076	-2.5 to 2.5	Pass
16QAM	824.7	6	0	20	3.27	-6.037	-0.0073	-2.5 to 2.5	Pass
					3.85	-9.298	-0.0113	-2.5 to 2.5	Pass
					4.43	-7.567	-0.0092	-2.5 to 2.5	Pass
				-30	3.85	-11.015	-0.0134	-2.5 to 2.5	Pass
				-20	3.85	-6.580	-0.0080	-2.5 to 2.5	Pass
				-10	3.85	-7.067	-0.0086	-2.5 to 2.5	Pass
				0	3.85	-6.609	-0.0080	-2.5 to 2.5	Pass
				10	3.85	-4.177	-0.0051	-2.5 to 2.5	Pass
				30	3.85	-7.682	-0.0093	-2.5 to 2.5	Pass
				40	3.85	-6.094	-0.0074	-2.5 to 2.5	Pass
				50	3.85	-4.435	-0.0054	-2.5 to 2.5	Pass
	836.5	6	0	20	3.27	-6.294	-0.0075	-2.5 to 2.5	Pass
					3.85	-4.349	-0.0052	-2.5 to 2.5	Pass
					4.43	-6.981	-0.0083	-2.5 to 2.5	Pass
				-30	3.85	-7.324	-0.0088	-2.5 to 2.5	Pass
				-20	3.85	-7.653	-0.0091	-2.5 to 2.5	Pass
				-10	3.85	-9.813	-0.0117	-2.5 to 2.5	Pass

				0	3.85	-7.653	-0.0091	-2.5 to 2.5	Pass
				10	3.85	-8.912	-0.0107	-2.5 to 2.5	Pass
				30	3.85	-9.842	-0.0118	-2.5 to 2.5	Pass
				40	3.85	-5.779	-0.0069	-2.5 to 2.5	Pass
				50	3.85	-5.493	-0.0066	-2.5 to 2.5	Pass
	848.3	6	0	20	3.27	-4.506	-0.0053	-2.5 to 2.5	Pass
					3.85	-7.825	-0.0092	-2.5 to 2.5	Pass
					4.43	-7.854	-0.0093	-2.5 to 2.5	Pass
				-30	3.85	-7.224	-0.0085	-2.5 to 2.5	Pass
				-20	3.85	-6.866	-0.0081	-2.5 to 2.5	Pass
				-10	3.85	-7.281	-0.0086	-2.5 to 2.5	Pass
				0	3.85	-6.852	-0.0081	-2.5 to 2.5	Pass
				10	3.85	-7.639	-0.0090	-2.5 to 2.5	Pass
				30	3.85	-7.224	-0.0085	-2.5 to 2.5	Pass
				40	3.85	-4.520	-0.0053	-2.5 to 2.5	Pass
				50	3.85	-6.437	-0.0076	-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	-3.805	-0.0046	-2.5 to 2.5	Pass
					3.85	-3.490	-0.0042	-2.5 to 2.5	Pass
					4.43	-7.453	-0.0090	-2.5 to 2.5	Pass
				-30	3.85	-6.895	-0.0084	-2.5 to 2.5	Pass
				-20	3.85	-5.422	-0.0066	-2.5 to 2.5	Pass
				-10	3.85	-6.809	-0.0082	-2.5 to 2.5	Pass
				0	3.85	-7.267	-0.0088	-2.5 to 2.5	Pass
				10	3.85	-5.593	-0.0068	-2.5 to 2.5	Pass
				30	3.85	-6.294	-0.0076	-2.5 to 2.5	Pass
				40	3.85	-4.621	-0.0056	-2.5 to 2.5	Pass
	836.5	15	0	20	3.27	-4.292	-0.0051	-2.5 to 2.5	Pass
					3.85	-3.734	-0.0045	-2.5 to 2.5	Pass
					4.43	-4.449	-0.0053	-2.5 to 2.5	Pass
				-30	3.85	-6.795	-0.0081	-2.5 to 2.5	Pass
				-20	3.85	-5.951	-0.0071	-2.5 to 2.5	Pass
				-10	3.85	-3.691	-0.0044	-2.5 to 2.5	Pass
				0	3.85	-6.123	-0.0073	-2.5 to 2.5	Pass
				10	3.85	-4.392	-0.0053	-2.5 to 2.5	Pass
				30	3.85	-7.324	-0.0088	-2.5 to 2.5	Pass
				40	3.85	-6.738	-0.0081	-2.5 to 2.5	Pass
	847.5	15	0	20	3.27	-2.232	-0.0026	-2.5 to 2.5	Pass
					3.85	-6.166	-0.0073	-2.5 to 2.5	Pass
					4.43	-6.695	-0.0079	-2.5 to 2.5	Pass
				-30	3.85	-5.708	-0.0067	-2.5 to 2.5	Pass
				-20	3.85	-5.851	-0.0069	-2.5 to 2.5	Pass
				-10	3.85	-5.965	-0.0070	-2.5 to 2.5	Pass
				0	3.85	-9.098	-0.0107	-2.5 to 2.5	Pass
				10	3.85	-9.041	-0.0107	-2.5 to 2.5	Pass
				30	3.85	-4.764	-0.0056	-2.5 to 2.5	Pass
				40	3.85	-6.008	-0.0071	-2.5 to 2.5	Pass
16QAM	825.5	15	0	20	3.27	-5.279	-0.0064	-2.5 to 2.5	Pass
					3.85	-8.612	-0.0104	-2.5 to 2.5	Pass
					4.43	-7.439	-0.0090	-2.5 to 2.5	Pass

				-30	3.85	-7.725	-0.0094	-2.5 to 2.5	Pass
				-20	3.85	-6.309	-0.0076	-2.5 to 2.5	Pass
				-10	3.85	-3.748	-0.0045	-2.5 to 2.5	Pass
				0	3.85	-2.246	-0.0027	-2.5 to 2.5	Pass
				10	3.85	-6.380	-0.0077	-2.5 to 2.5	Pass
				30	3.85	-4.506	-0.0055	-2.5 to 2.5	Pass
				40	3.85	-5.851	-0.0071	-2.5 to 2.5	Pass
				50	3.85	-4.163	-0.0050	-2.5 to 2.5	Pass
	836.5	15	0	20	3.27	-5.708	-0.0068	-2.5 to 2.5	Pass
					3.85	-4.950	-0.0059	-2.5 to 2.5	Pass
					4.43	-4.249	-0.0051	-2.5 to 2.5	Pass
				-30	3.85	-4.320	-0.0052	-2.5 to 2.5	Pass
				-20	3.85	-5.279	-0.0063	-2.5 to 2.5	Pass
				-10	3.85	-6.723	-0.0080	-2.5 to 2.5	Pass
				0	3.85	-5.250	-0.0063	-2.5 to 2.5	Pass
				10	3.85	-7.539	-0.0090	-2.5 to 2.5	Pass
				30	3.85	-7.868	-0.0094	-2.5 to 2.5	Pass
				40	3.85	-7.911	-0.0095	-2.5 to 2.5	Pass
				50	3.85	-6.938	-0.0083	-2.5 to 2.5	Pass
	847.5	15	0	20	3.27	-5.722	-0.0068	-2.5 to 2.5	Pass
					3.85	-4.034	-0.0048	-2.5 to 2.5	Pass
					4.43	-4.406	-0.0052	-2.5 to 2.5	Pass
				-30	3.85	-5.951	-0.0070	-2.5 to 2.5	Pass
				-20	3.85	-6.638	-0.0078	-2.5 to 2.5	Pass
				-10	3.85	-5.579	-0.0066	-2.5 to 2.5	Pass
				0	3.85	-7.267	-0.0086	-2.5 to 2.5	Pass
				10	3.85	-1.888	-0.0022	-2.5 to 2.5	Pass
				30	3.85	-6.137	-0.0072	-2.5 to 2.5	Pass
				40	3.85	-6.366	-0.0075	-2.5 to 2.5	Pass
				50	3.85	-4.864	-0.0057	-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	-6.309	-0.0076	-2.5 to 2.5	Pass
					3.85	-7.467	-0.0090	-2.5 to 2.5	Pass
					4.43	-8.841	-0.0107	-2.5 to 2.5	Pass
				-30	3.85	-4.792	-0.0058	-2.5 to 2.5	Pass
				-20	3.85	-4.263	-0.0052	-2.5 to 2.5	Pass
				-10	3.85	-7.367	-0.0089	-2.5 to 2.5	Pass
				0	3.85	-4.120	-0.0050	-2.5 to 2.5	Pass
				10	3.85	-8.540	-0.0103	-2.5 to 2.5	Pass
				30	3.85	-6.480	-0.0078	-2.5 to 2.5	Pass
				40	3.85	-7.539	-0.0091	-2.5 to 2.5	Pass
				50	3.85	-8.140	-0.0098	-2.5 to 2.5	Pass
	836.5	25	0	20	3.27	-1.416	-0.0017	-2.5 to 2.5	Pass
					3.85	-3.119	-0.0037	-2.5 to 2.5	Pass
					4.43	-2.275	-0.0027	-2.5 to 2.5	Pass
				-30	3.85	-4.821	-0.0058	-2.5 to 2.5	Pass
				-20	3.85	-5.636	-0.0067	-2.5 to 2.5	Pass
				-10	3.85	-8.326	-0.0100	-2.5 to 2.5	Pass
				0	3.85	-4.492	-0.0054	-2.5 to 2.5	Pass
				10	3.85	-6.623	-0.0079	-2.5 to 2.5	Pass
				30	3.85	-2.046	-0.0024	-2.5 to 2.5	Pass
				40	3.85	-5.393	-0.0064	-2.5 to 2.5	Pass
				50	3.85	-7.167	-0.0086	-2.5 to 2.5	Pass

	846.5	25	0	20	3.27	-3.991	-0.0047	-2.5 to 2.5	Pass
					3.85	-5.651	-0.0067	-2.5 to 2.5	Pass
					4.43	-10.314	-0.0122	-2.5 to 2.5	Pass
				-30	3.85	-9.785	-0.0116	-2.5 to 2.5	Pass
				-20	3.85	-6.437	-0.0076	-2.5 to 2.5	Pass
				-10	3.85	-6.638	-0.0078	-2.5 to 2.5	Pass
				0	3.85	-10.171	-0.0120	-2.5 to 2.5	Pass
				10	3.85	-7.253	-0.0086	-2.5 to 2.5	Pass
				30	3.85	-6.766	-0.0080	-2.5 to 2.5	Pass
				40	3.85	-7.439	-0.0088	-2.5 to 2.5	Pass
16QAM	826.5	25	0	20	3.27	-3.462	-0.0042	-2.5 to 2.5	Pass
					3.85	-6.366	-0.0077	-2.5 to 2.5	Pass
					4.43	-6.952	-0.0084	-2.5 to 2.5	Pass
				-30	3.85	-4.592	-0.0056	-2.5 to 2.5	Pass
				-20	3.85	-8.011	-0.0097	-2.5 to 2.5	Pass
				-10	3.85	-8.712	-0.0105	-2.5 to 2.5	Pass
				0	3.85	-5.150	-0.0062	-2.5 to 2.5	Pass
				10	3.85	-6.638	-0.0080	-2.5 to 2.5	Pass
				30	3.85	-8.311	-0.0101	-2.5 to 2.5	Pass
				40	3.85	-7.210	-0.0087	-2.5 to 2.5	Pass
	836.5	25	0	20	3.27	-7.367	-0.0088	-2.5 to 2.5	Pass
					3.85	-5.279	-0.0063	-2.5 to 2.5	Pass
					4.43	-6.509	-0.0078	-2.5 to 2.5	Pass
				-30	3.85	-4.392	-0.0053	-2.5 to 2.5	Pass
				-20	3.85	-7.553	-0.0090	-2.5 to 2.5	Pass
				-10	3.85	-8.097	-0.0097	-2.5 to 2.5	Pass
				0	3.85	-8.154	-0.0097	-2.5 to 2.5	Pass
				10	3.85	-8.311	-0.0099	-2.5 to 2.5	Pass
				30	3.85	-4.435	-0.0053	-2.5 to 2.5	Pass
				40	3.85	-3.233	-0.0039	-2.5 to 2.5	Pass
	846.5	25	0	20	3.27	-9.241	-0.0109	-2.5 to 2.5	Pass
					3.85	-6.738	-0.0080	-2.5 to 2.5	Pass
					4.43	-5.579	-0.0066	-2.5 to 2.5	Pass
				-30	3.85	-7.882	-0.0093	-2.5 to 2.5	Pass
				-20	3.85	-10.014	-0.0118	-2.5 to 2.5	Pass
				-10	3.85	-7.439	-0.0088	-2.5 to 2.5	Pass
				0	3.85	-5.493	-0.0065	-2.5 to 2.5	Pass
				10	3.85	-6.537	-0.0077	-2.5 to 2.5	Pass
				30	3.85	-8.540	-0.0101	-2.5 to 2.5	Pass
				40	3.85	-4.992	-0.0059	-2.5 to 2.5	Pass
				50	3.85	-5.293	-0.0063	-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	-6.924	-0.0084	-2.5 to 2.5	Pass
					3.85	-6.738	-0.0081	-2.5 to 2.5	Pass
					4.43	-6.909	-0.0083	-2.5 to 2.5	Pass
				-30	3.85	-7.825	-0.0094	-2.5 to 2.5	Pass
				-20	3.85	-8.941	-0.0108	-2.5 to 2.5	Pass
				-10	3.85	-6.852	-0.0083	-2.5 to 2.5	Pass
				0	3.85	-7.195	-0.0087	-2.5 to 2.5	Pass
				10	3.85	-4.163	-0.0050	-2.5 to 2.5	Pass

				30	3.85	-4.706	-0.0057	-2.5 to 2.5	Pass
				40	3.85	-6.080	-0.0073	-2.5 to 2.5	Pass
				50	3.85	-7.553	-0.0091	-2.5 to 2.5	Pass
	836.5	50	0	20	3.27	-4.835	-0.0058	-2.5 to 2.5	Pass
					3.85	-6.194	-0.0074	-2.5 to 2.5	Pass
					4.43	-5.565	-0.0067	-2.5 to 2.5	Pass
				-30	3.85	-6.065	-0.0073	-2.5 to 2.5	Pass
				-20	3.85	-5.007	-0.0060	-2.5 to 2.5	Pass
				-10	3.85	-5.450	-0.0065	-2.5 to 2.5	Pass
				0	3.85	-4.578	-0.0055	-2.5 to 2.5	Pass
				10	3.85	-7.024	-0.0084	-2.5 to 2.5	Pass
				30	3.85	-8.798	-0.0105	-2.5 to 2.5	Pass
				40	3.85	-5.980	-0.0071	-2.5 to 2.5	Pass
				50	3.85	-7.167	-0.0086	-2.5 to 2.5	Pass
	844	50	0	20	3.27	-8.397	-0.0099	-2.5 to 2.5	Pass
					3.85	-10.157	-0.0120	-2.5 to 2.5	Pass
					4.43	-10.328	-0.0122	-2.5 to 2.5	Pass
				-30	3.85	-9.713	-0.0115	-2.5 to 2.5	Pass
				-20	3.85	-6.366	-0.0075	-2.5 to 2.5	Pass
				-10	3.85	-4.406	-0.0052	-2.5 to 2.5	Pass
				0	3.85	-4.907	-0.0058	-2.5 to 2.5	Pass
				10	3.85	-4.535	-0.0054	-2.5 to 2.5	Pass
				30	3.85	-3.648	-0.0043	-2.5 to 2.5	Pass
				40	3.85	-5.693	-0.0067	-2.5 to 2.5	Pass
				50	3.85	-5.779	-0.0068	-2.5 to 2.5	Pass
16QAM	829	50	0	20	3.27	-5.965	-0.0072	-2.5 to 2.5	Pass
					3.85	-6.366	-0.0077	-2.5 to 2.5	Pass
					4.43	-8.941	-0.0108	-2.5 to 2.5	Pass
				-30	3.85	-10.285	-0.0124	-2.5 to 2.5	Pass
				-20	3.85	-6.151	-0.0074	-2.5 to 2.5	Pass
				-10	3.85	-5.422	-0.0065	-2.5 to 2.5	Pass
				0	3.85	-6.223	-0.0075	-2.5 to 2.5	Pass
				10	3.85	-6.781	-0.0082	-2.5 to 2.5	Pass
				30	3.85	-7.954	-0.0096	-2.5 to 2.5	Pass
				40	3.85	-7.596	-0.0092	-2.5 to 2.5	Pass
				50	3.85	-9.928	-0.0120	-2.5 to 2.5	Pass
	836.5	50	0	20	3.27	-7.639	-0.0091	-2.5 to 2.5	Pass
					3.85	-8.311	-0.0099	-2.5 to 2.5	Pass
					4.43	-4.234	-0.0051	-2.5 to 2.5	Pass
				-30	3.85	-5.236	-0.0063	-2.5 to 2.5	Pass
				-20	3.85	-0.687	-0.0008	-2.5 to 2.5	Pass
				-10	3.85	-6.223	-0.0074	-2.5 to 2.5	Pass
				0	3.85	-6.895	-0.0082	-2.5 to 2.5	Pass
				10	3.85	-2.432	-0.0029	-2.5 to 2.5	Pass
				30	3.85	-5.980	-0.0071	-2.5 to 2.5	Pass
				40	3.85	-8.540	-0.0102	-2.5 to 2.5	Pass
				50	3.85	-9.055	-0.0108	-2.5 to 2.5	Pass
	844	50	0	20	3.27	-7.296	-0.0086	-2.5 to 2.5	Pass
					3.85	-8.283	-0.0098	-2.5 to 2.5	Pass
					4.43	-13.075	-0.0155	-2.5 to 2.5	Pass
				-30	3.85	-7.210	-0.0085	-2.5 to 2.5	Pass
				-20	3.85	-8.411	-0.0100	-2.5 to 2.5	Pass
				-10	3.85	-8.340	-0.0099	-2.5 to 2.5	Pass
				0	3.85	-8.111	-0.0096	-2.5 to 2.5	Pass
				10	3.85	-7.968	-0.0094	-2.5 to 2.5	Pass
				30	3.85	-10.557	-0.0125	-2.5 to 2.5	Pass
				40	3.85	-7.710	-0.0091	-2.5 to 2.5	Pass
				50	3.85	-6.237	-0.0074	-2.5 to 2.5	Pass

3. Modulation Characteristics

3.1 Test Result

3.1.1 B5_1.4MHz

Band: 5 / Bandwidth: 1.4MHz / NTV						
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

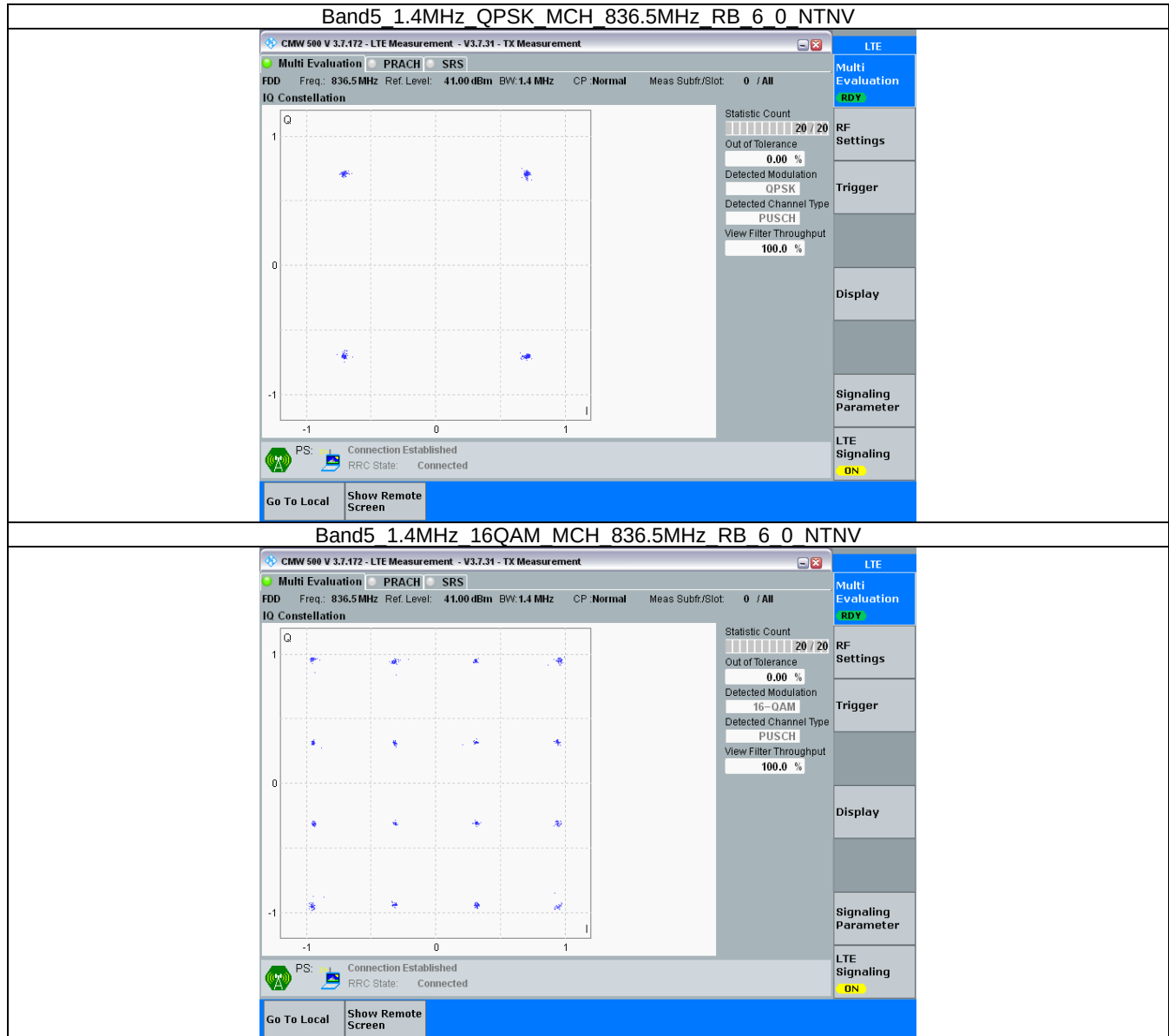
Band: 5 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	25	0	Refer To Test Graph		Pass
16QAM	836.5	25	0	Refer To Test Graph		Pass

3.1.4 B5_10MHz

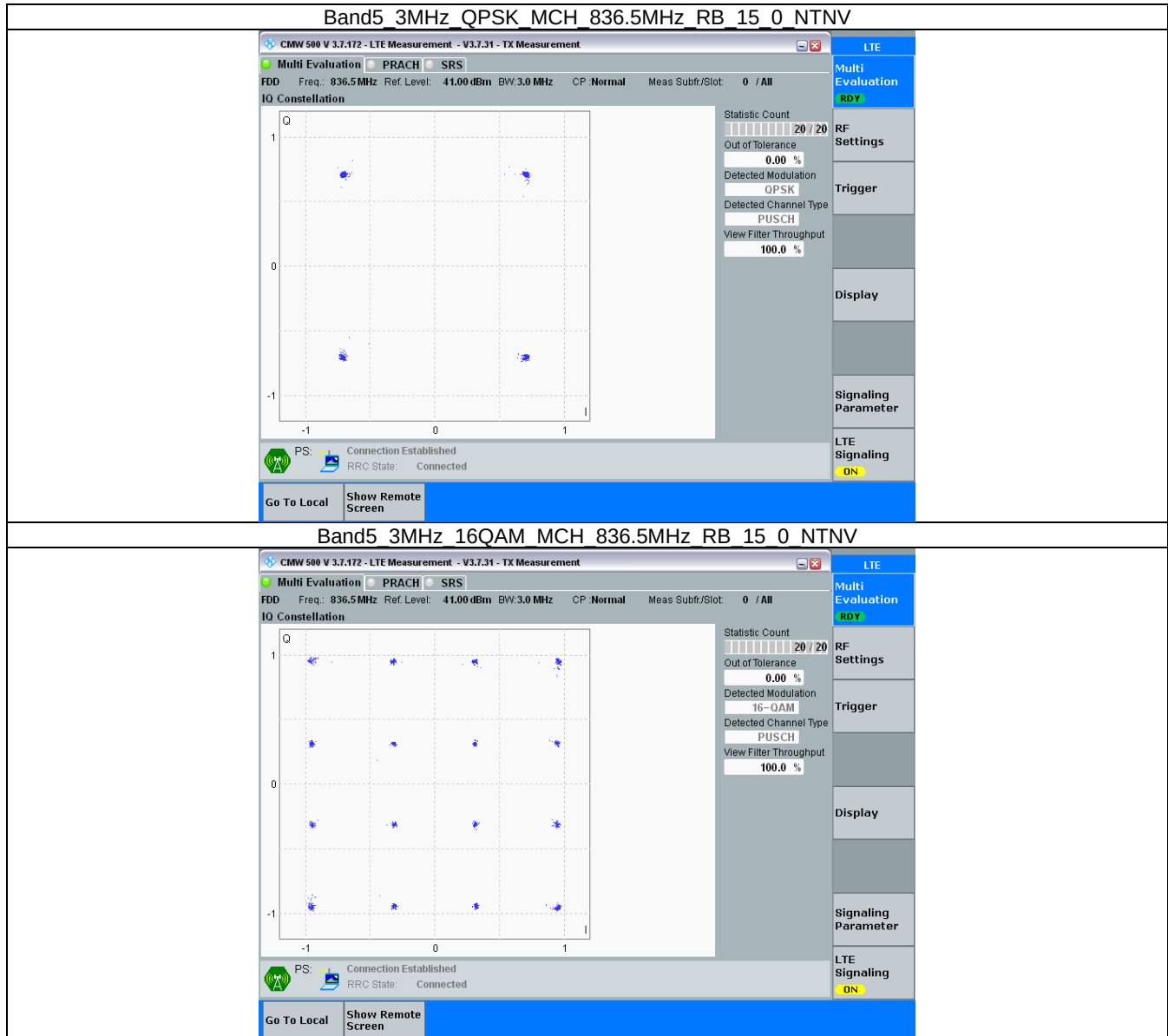
Band: 5 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	50	0	Refer To Test Graph		Pass
16QAM	836.5	50	0	Refer To Test Graph		Pass

3.2 Test Graph

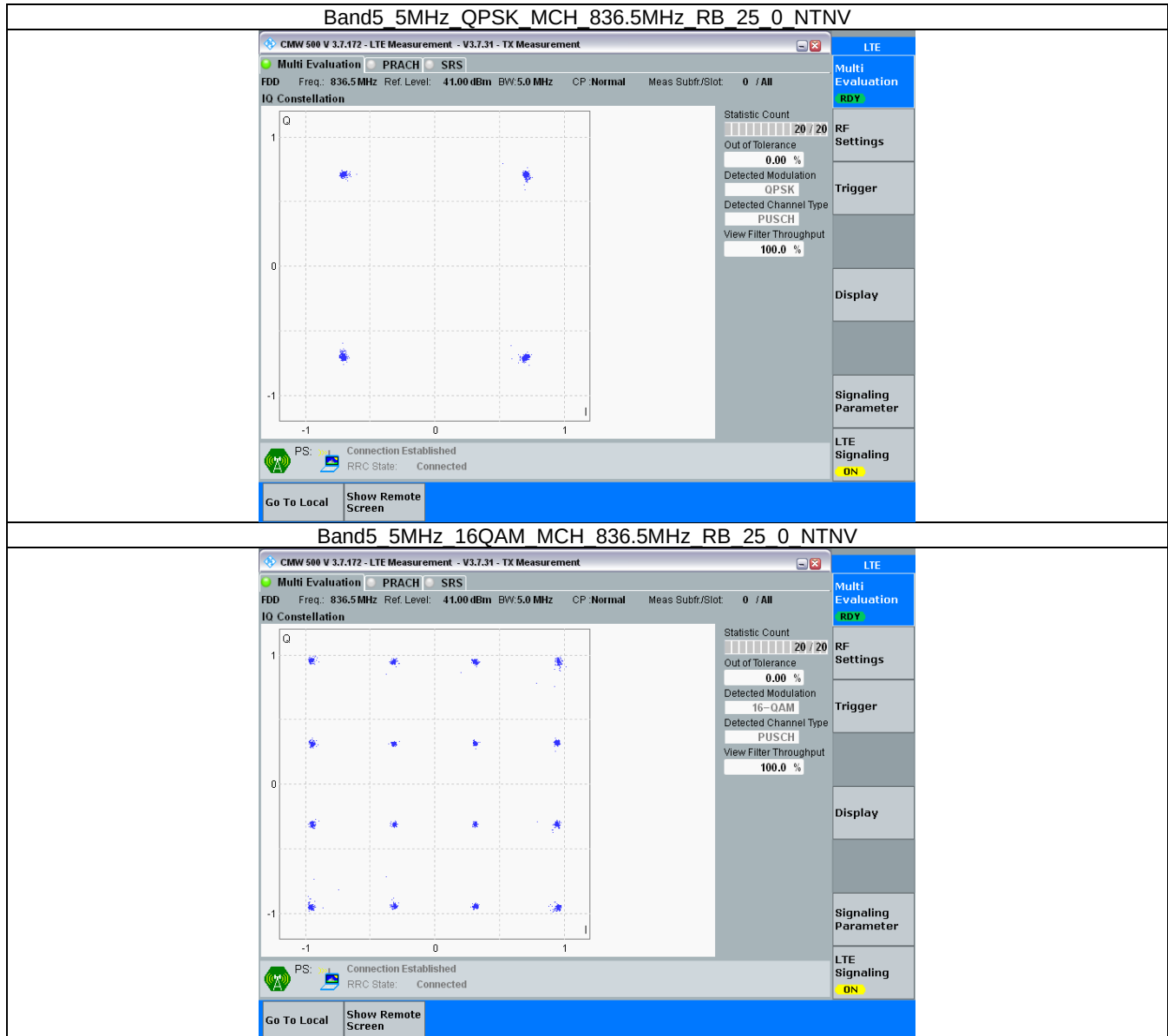
3.2.1 B5_1.4MHz



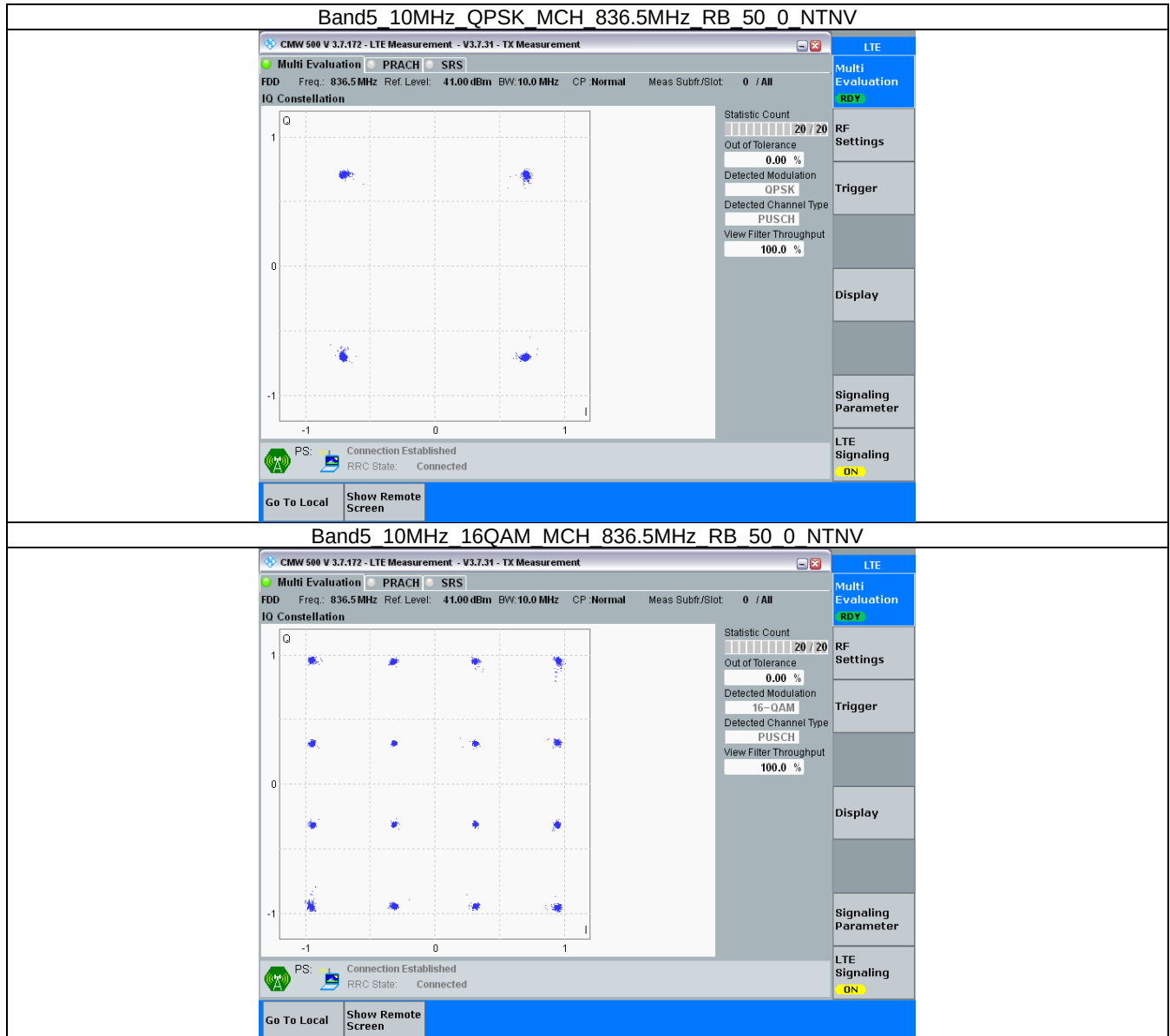
3.2.2 B5_3MHz



3.2.3 B5_5MHz



3.2.4 B5_10MHz



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	1.120	/	Pass
		836.5	6	0	1.110	/	Pass
		848.3	6	0	1.111	/	Pass
	16QAM	824.7	6	0	1.113	/	Pass
		836.5	6	0	1.112	/	Pass
		848.3	6	0	1.116	/	Pass
3	QPSK	825.5	15	0	2.726	/	Pass
		836.5	15	0	2.729	/	Pass
		847.5	15	0	2.731	/	Pass
	16QAM	825.5	15	0	2.720	/	Pass
		836.5	15	0	2.722	/	Pass
		847.5	15	0	2.731	/	Pass
5	QPSK	826.5	25	0	4.539	/	Pass
		836.5	25	0	4.541	/	Pass
		846.5	25	0	4.559	/	Pass
	16QAM	826.5	25	0	4.545	/	Pass
		836.5	25	0	4.554	/	Pass
		846.5	25	0	4.545	/	Pass
10	QPSK	829	50	0	9.064	/	Pass
		836.5	50	0	9.043	/	Pass
		844	50	0	9.089	/	Pass
	16QAM	829	50	0	9.068	/	Pass
		836.5	50	0	9.038	/	Pass
		844	50	0	9.083	/	Pass

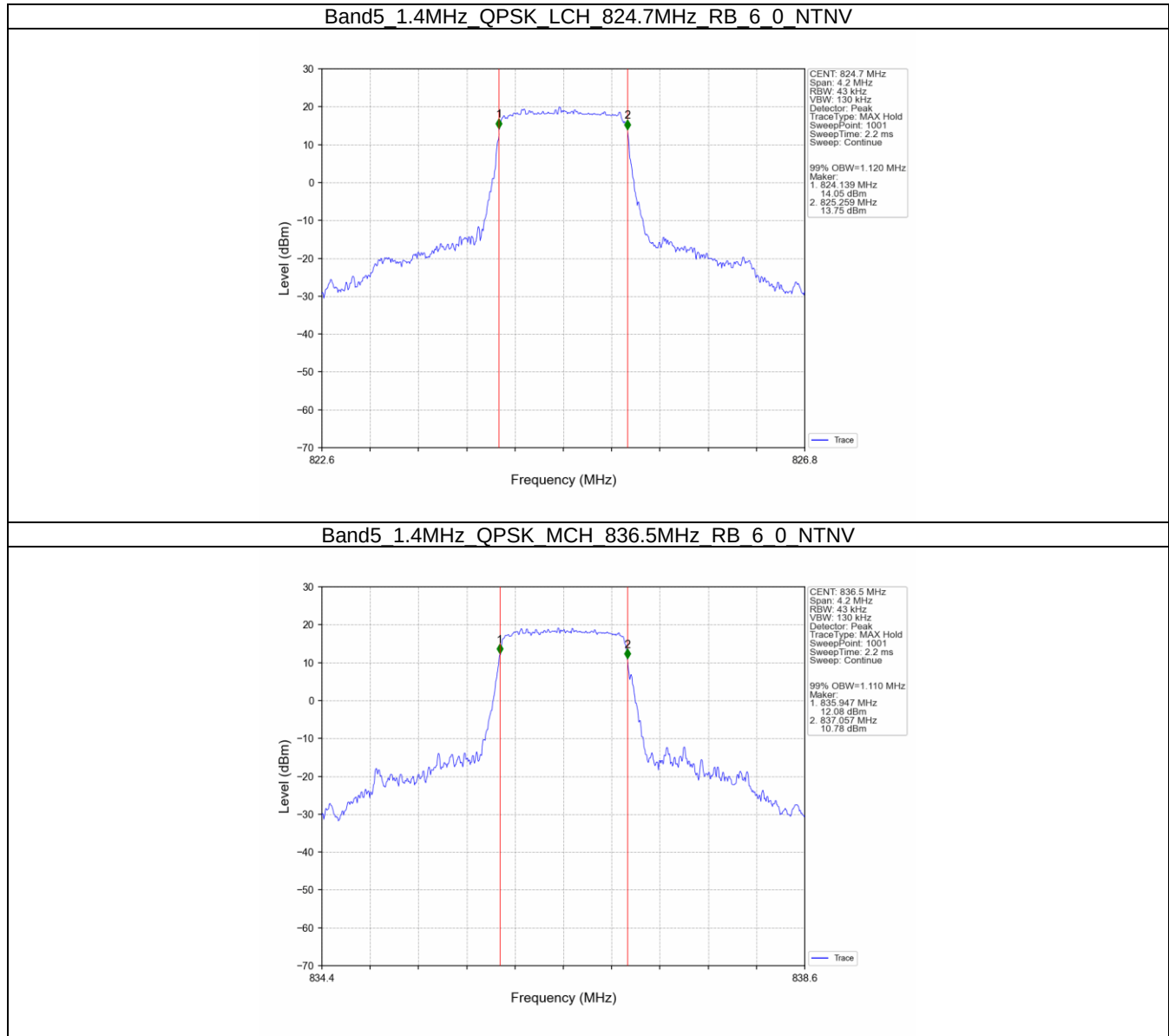
4.1.2 Band5_XDB

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	1.321	/	Pass
		836.5	6	0	1.329	/	Pass
		848.3	6	0	1.324	/	Pass
	16QAM	824.7	6	0	1.303	/	Pass
		836.5	6	0	1.311	/	Pass
		848.3	6	0	1.330	/	Pass
3	QPSK	825.5	15	0	2.995	/	Pass
		836.5	15	0	2.999	/	Pass
		847.5	15	0	3.003	/	Pass
	16QAM	825.5	15	0	2.968	/	Pass
		836.5	15	0	2.996	/	Pass
		847.5	15	0	2.989	/	Pass
5	QPSK	826.5	25	0	4.993	/	Pass
		836.5	25	0	5.019	/	Pass
		846.5	25	0	5.012	/	Pass

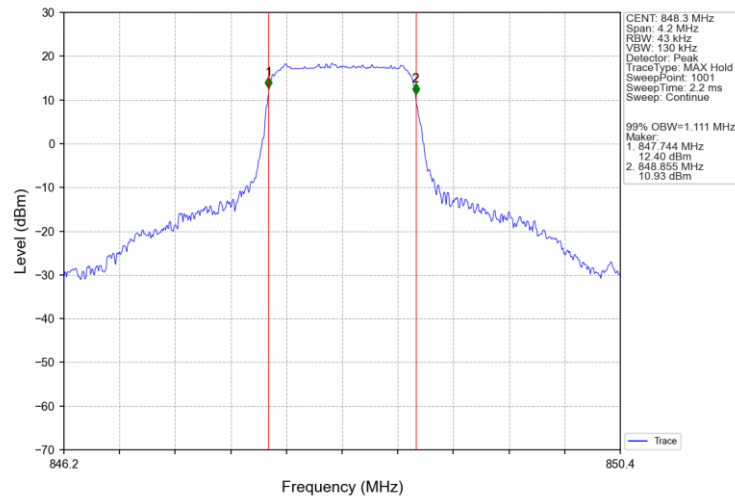
10	16QAM	826.5	25	0	5.036	/	Pass
		836.5	25	0	5.016	/	Pass
		846.5	25	0	5.016	/	Pass
	QPSK	829	50	0	9.937	/	Pass
		836.5	50	0	9.978	/	Pass
		844	50	0	9.952	/	Pass
	16QAM	829	50	0	9.917	/	Pass
		836.5	50	0	9.875	/	Pass
		844	50	0	9.904	/	Pass

4.2 Test Graph

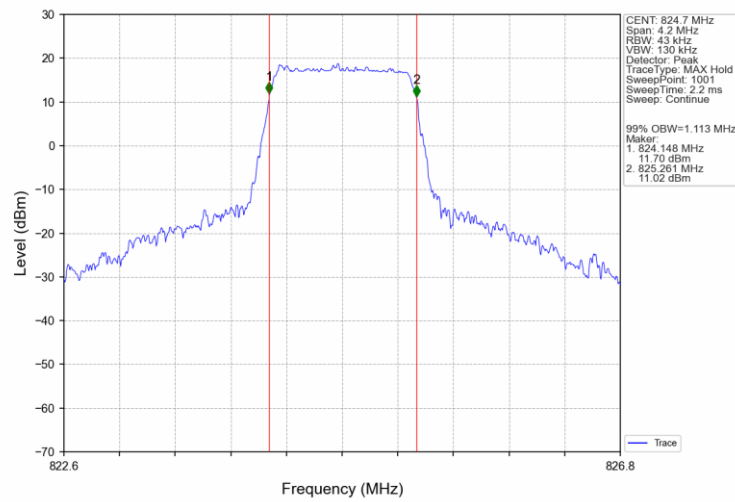
4.2.1 Band5_OBW



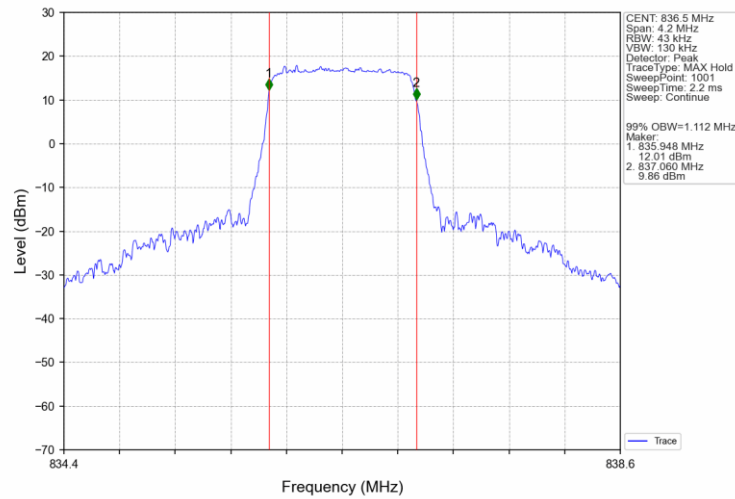
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



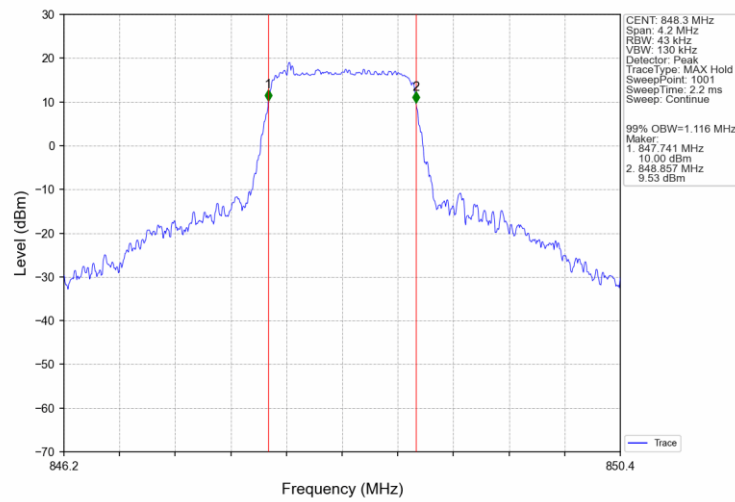
Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



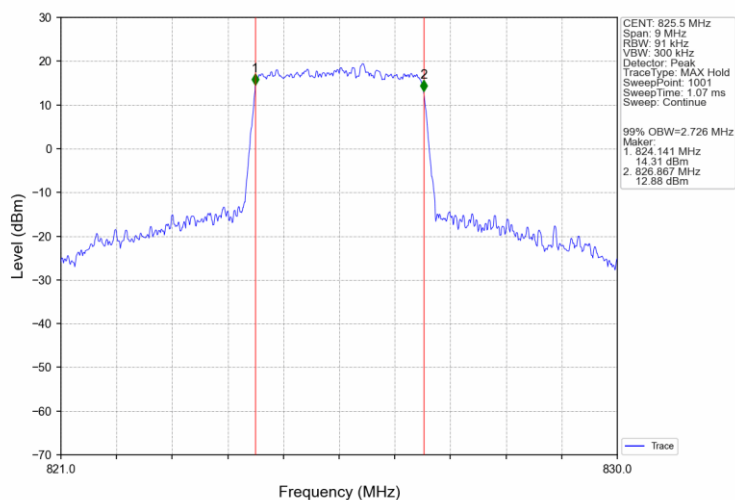
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



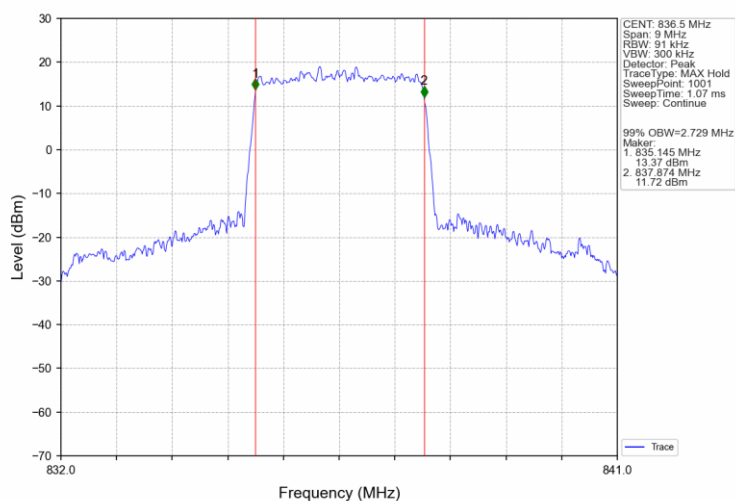
Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



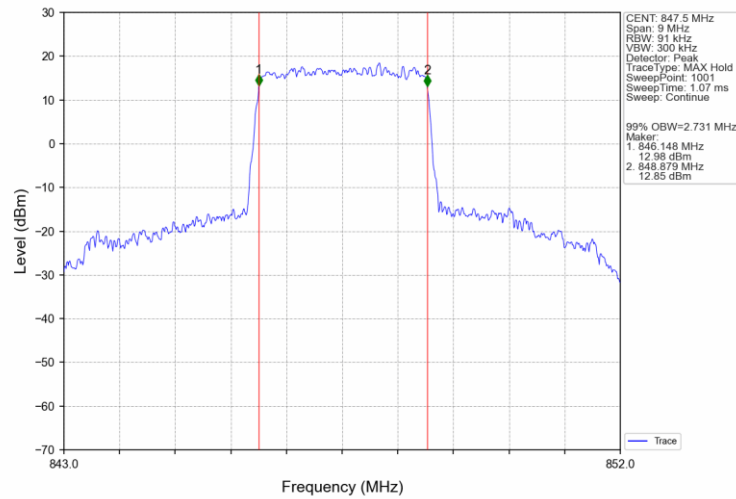
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



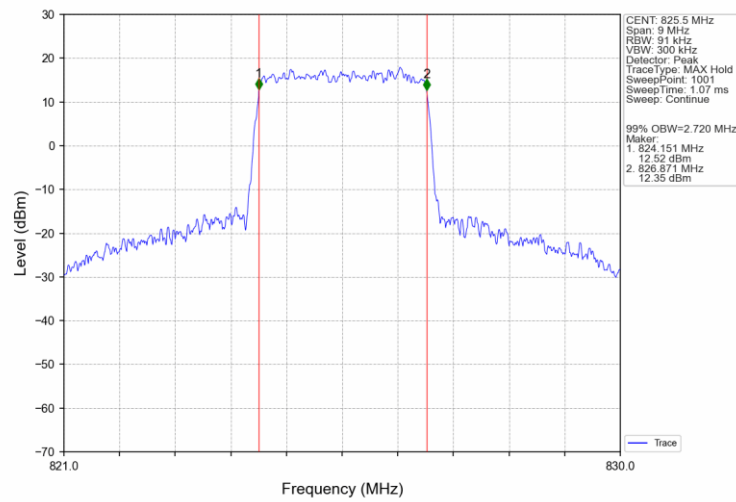
Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



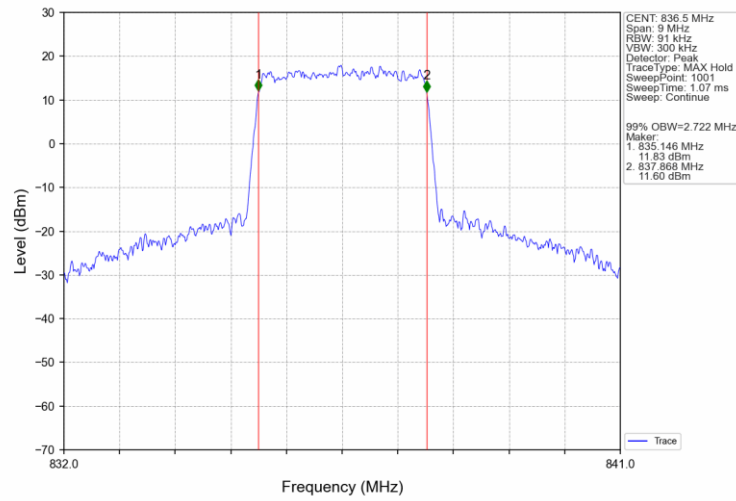
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



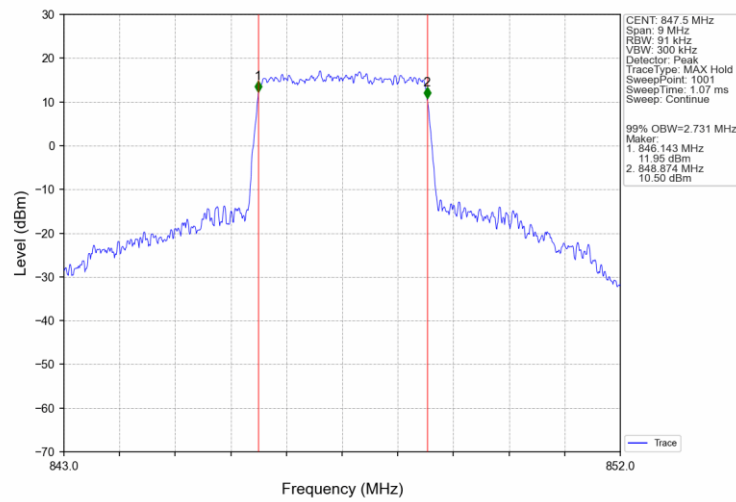
Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



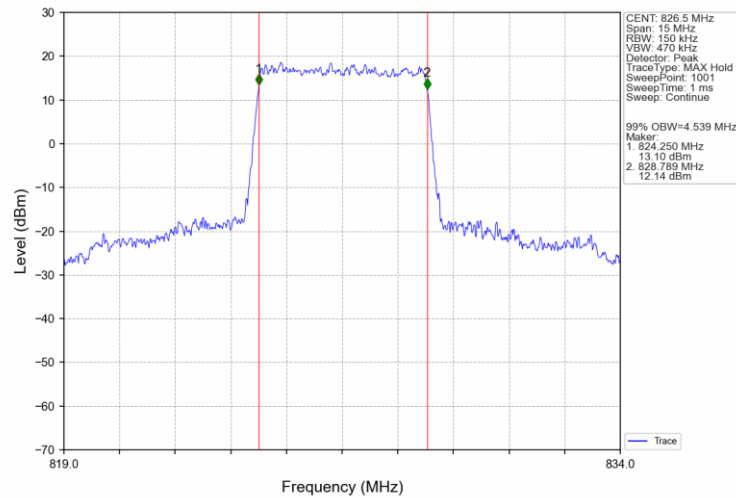
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



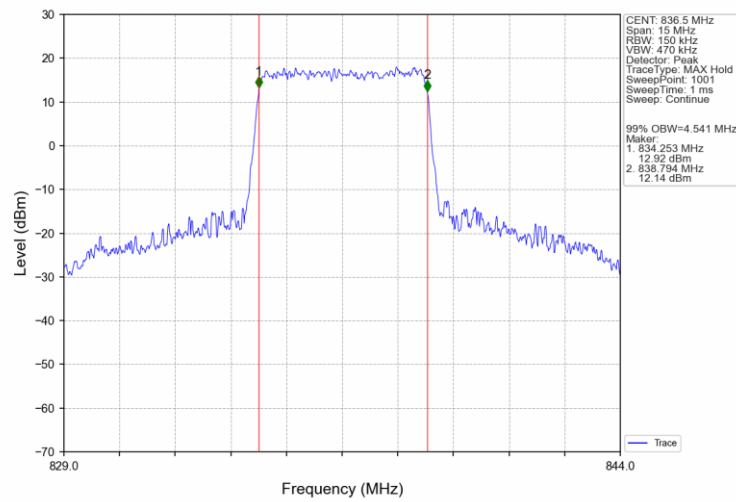
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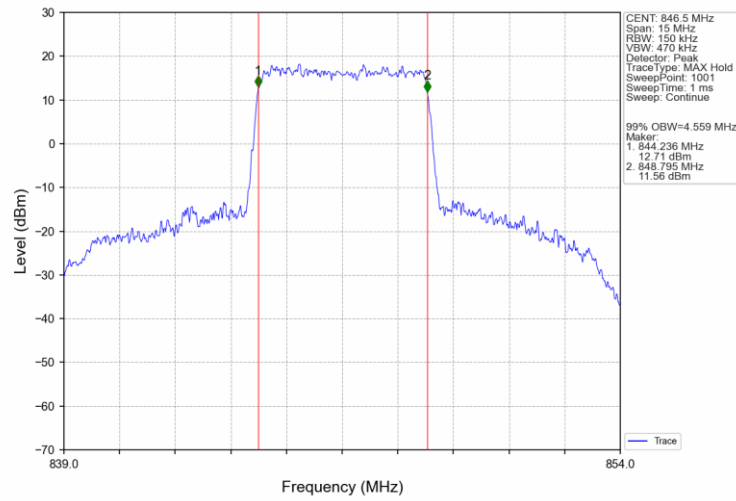
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



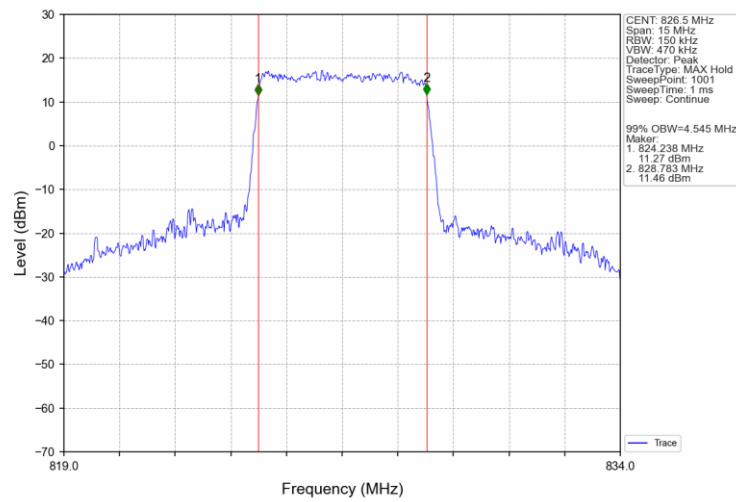
Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



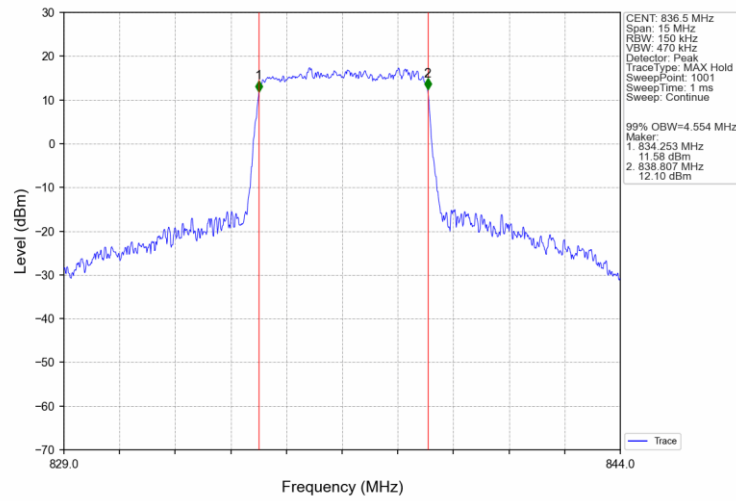
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



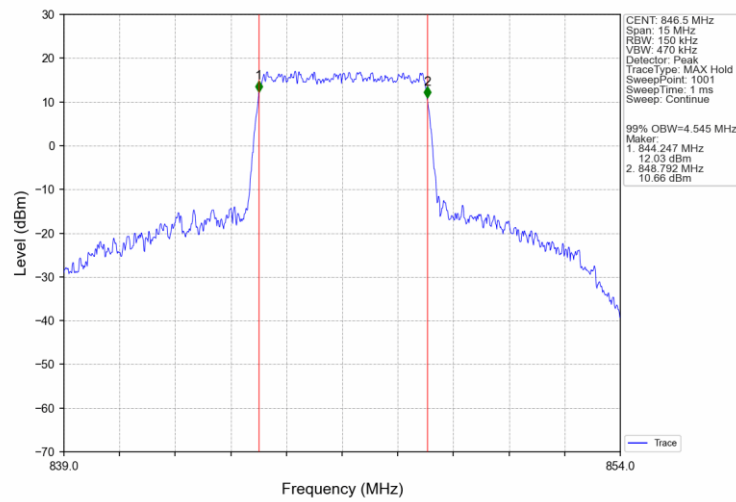
Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



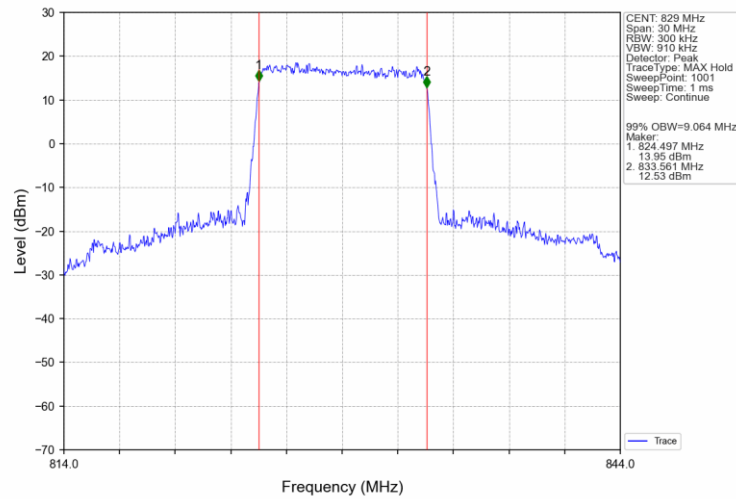
Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



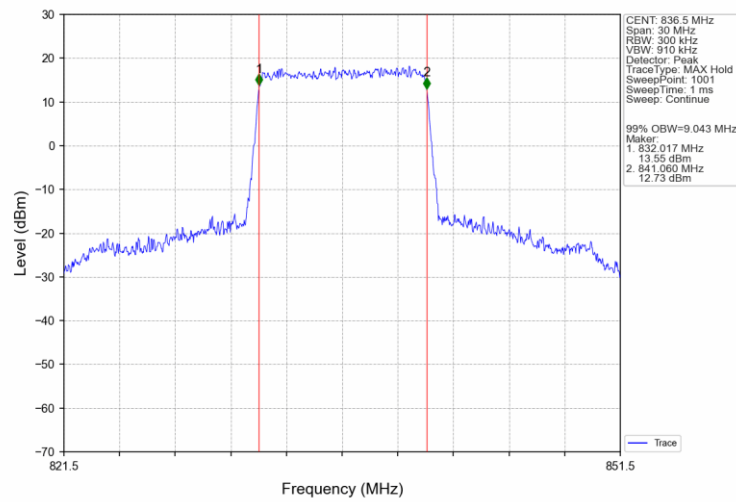
Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



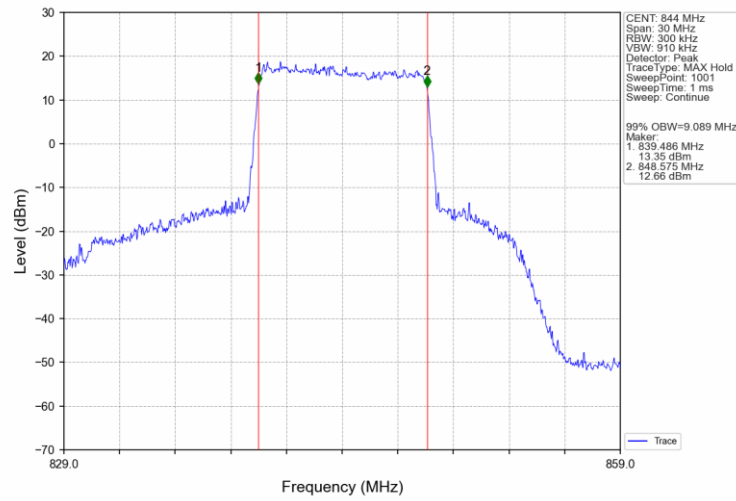
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



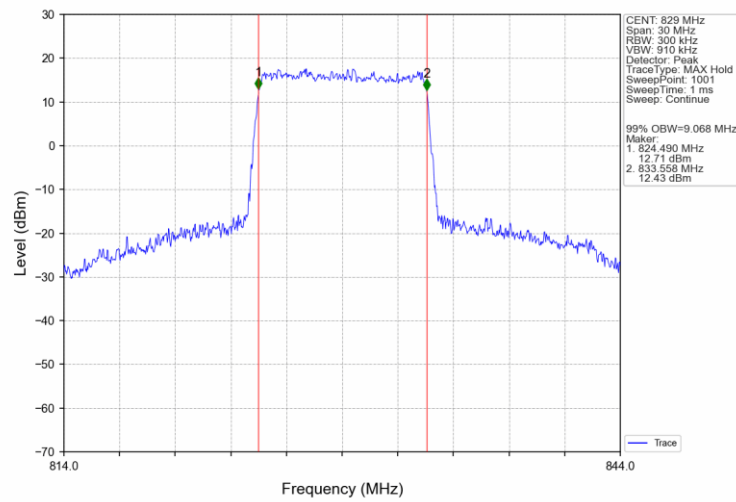
Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



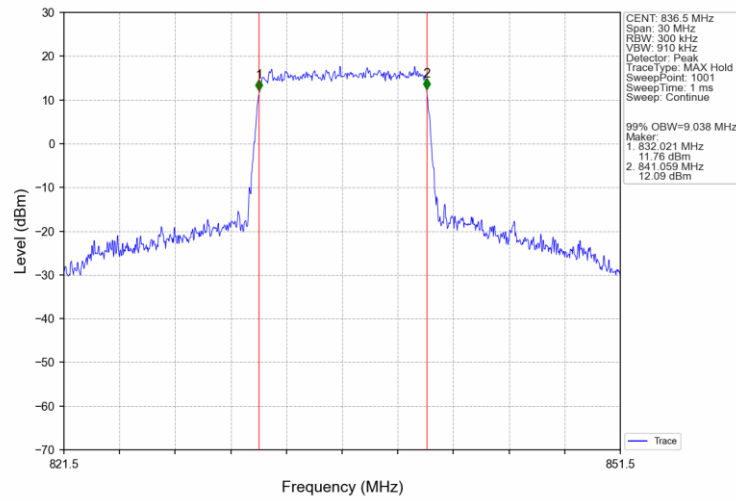
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



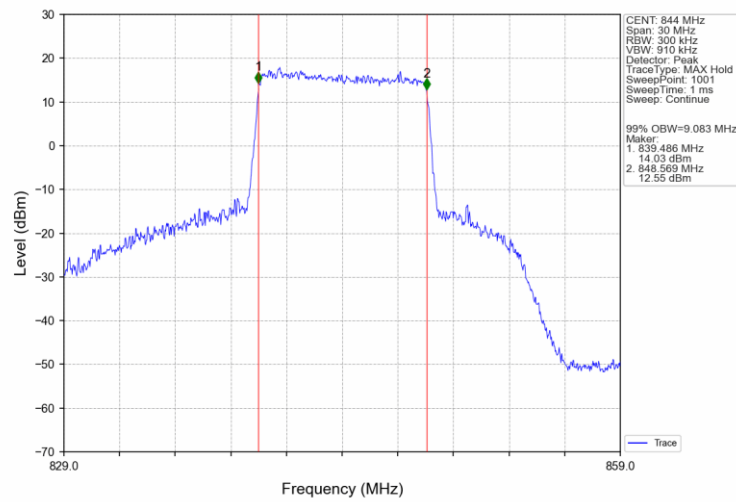
Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV

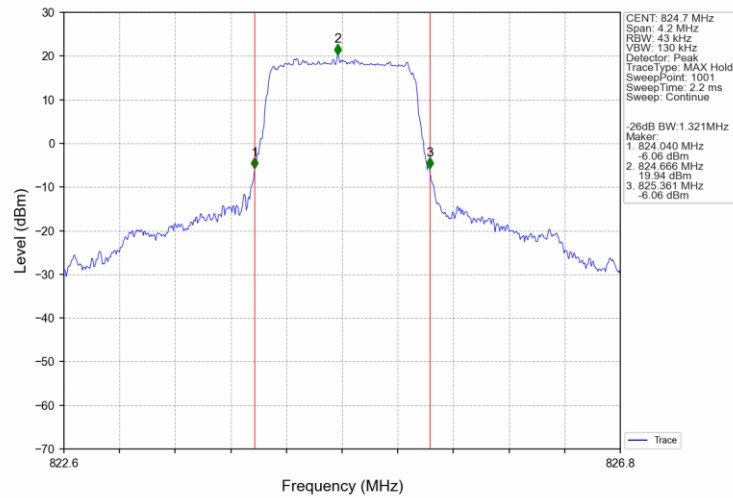


Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV

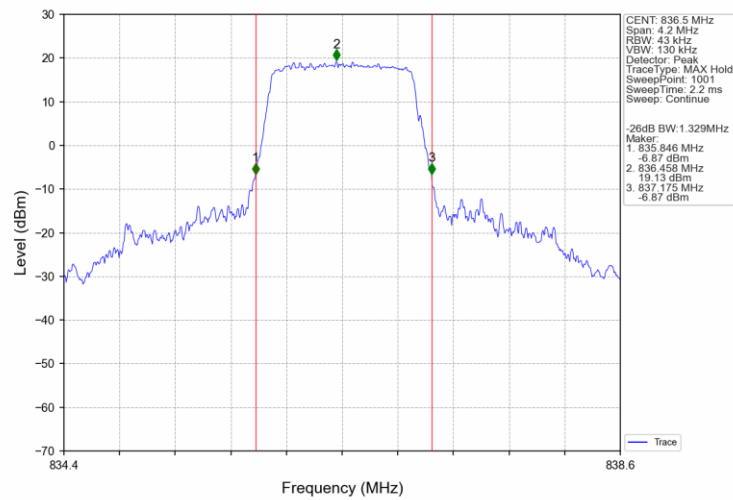


4.2.2 Band5_XDB

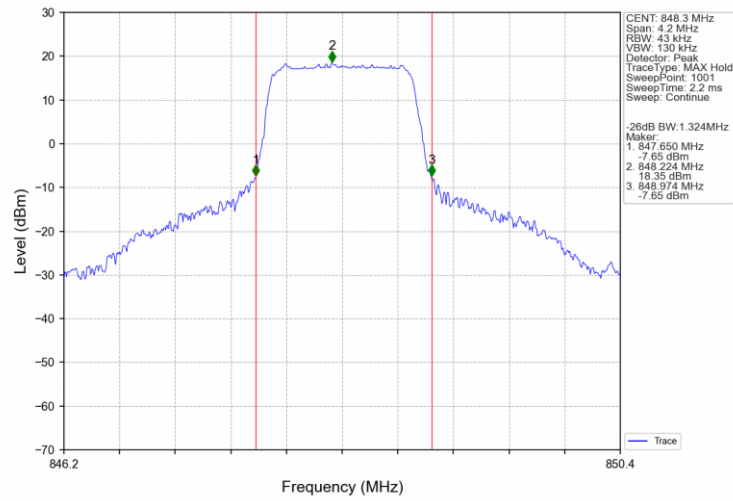
Band5 1.4MHz QPSK LCH 824.7MHz RB 6 0 NTNV



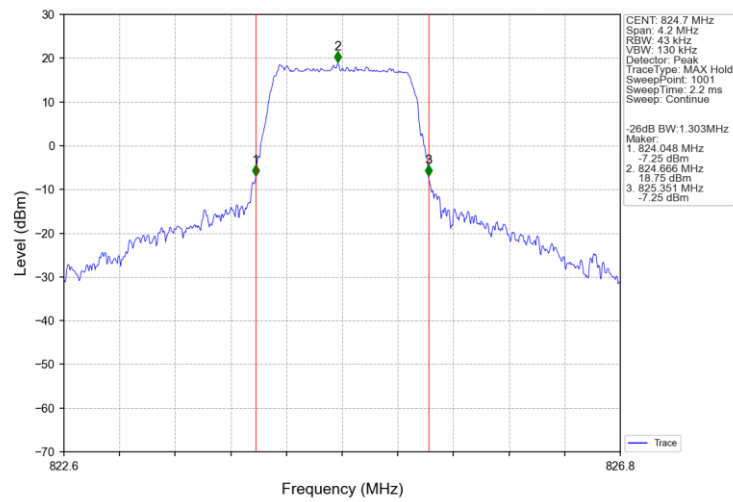
Band5 1.4MHz QPSK MCH 836.5MHz RB 6 0 NTNV



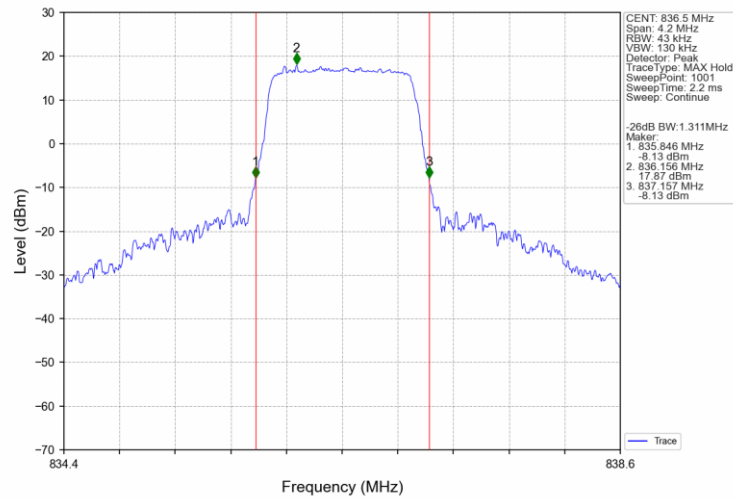
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



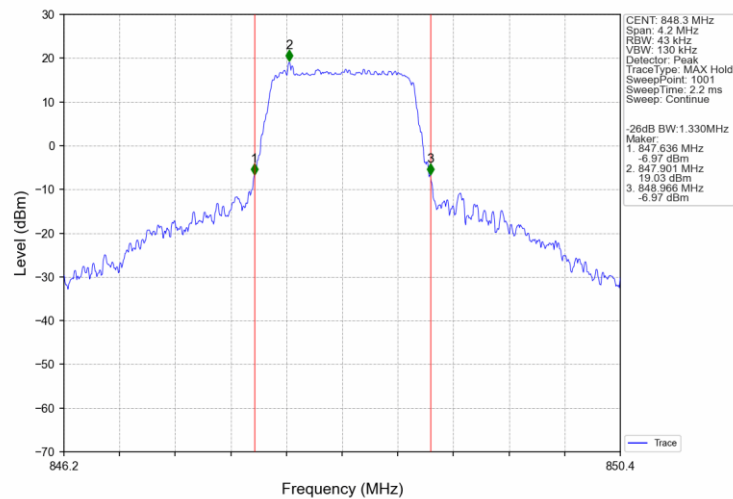
Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



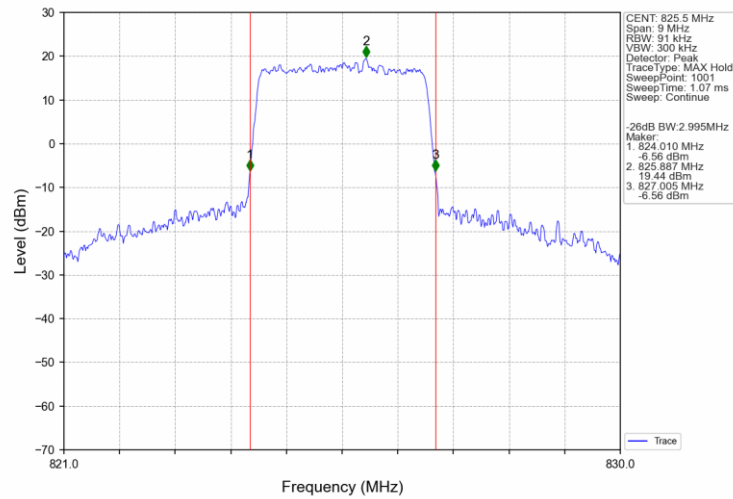
Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



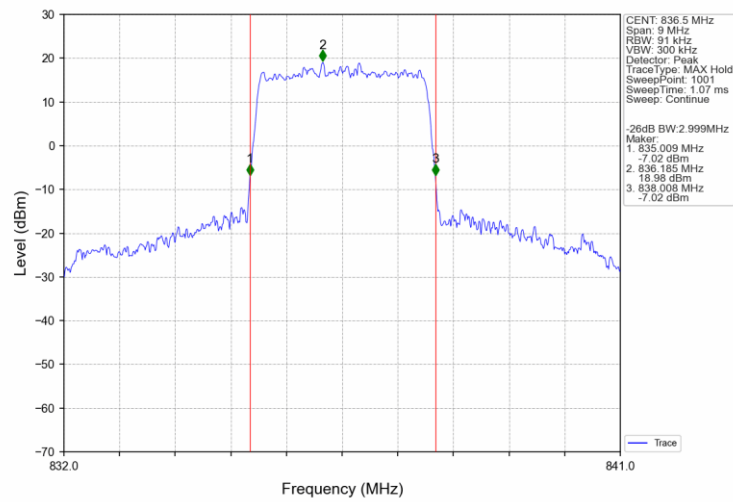
Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



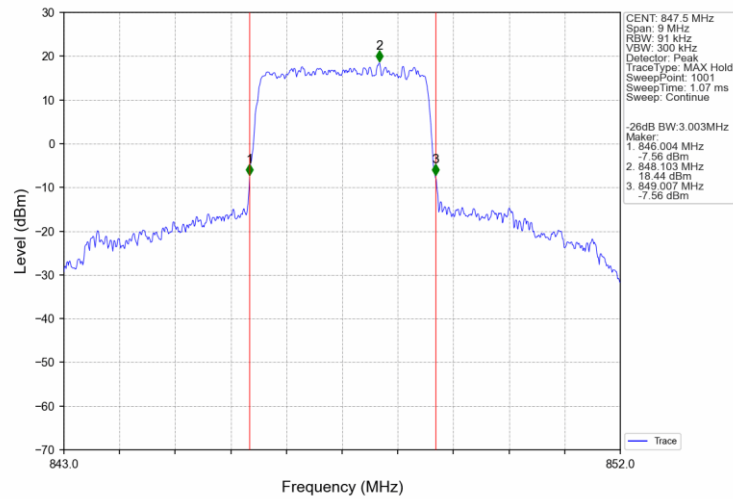
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



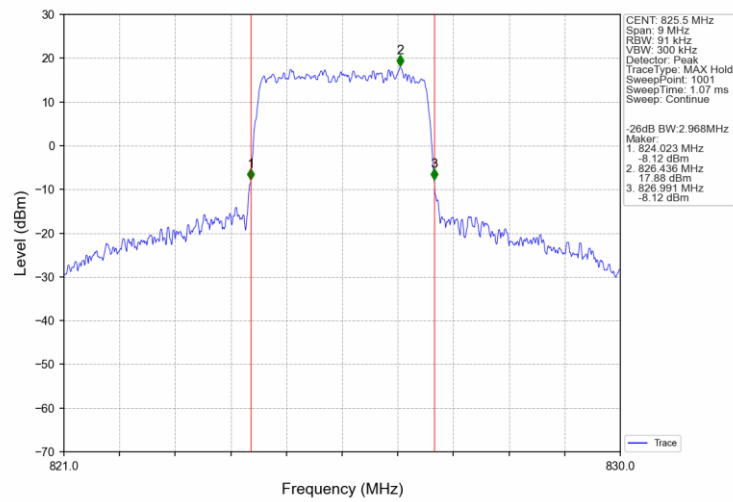
Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



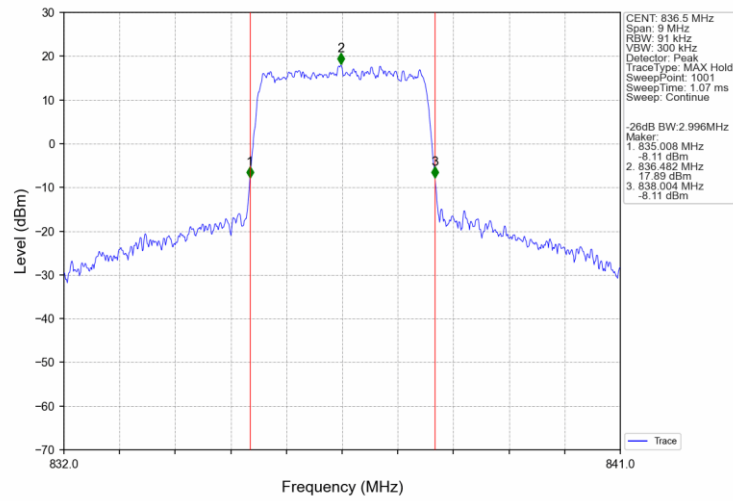
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



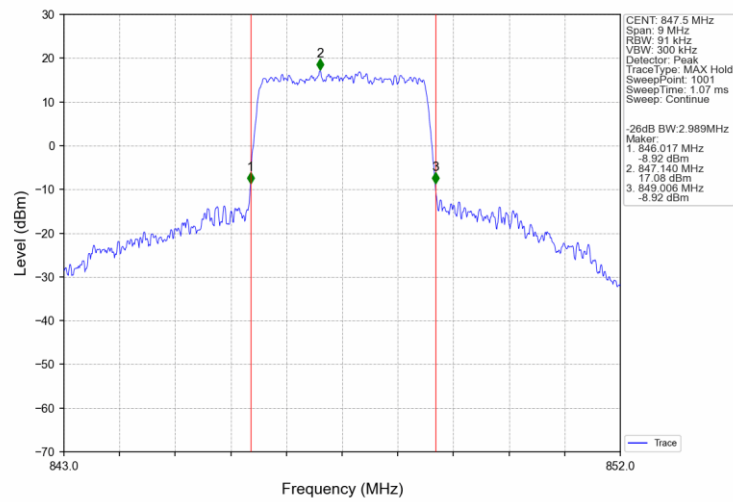
Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



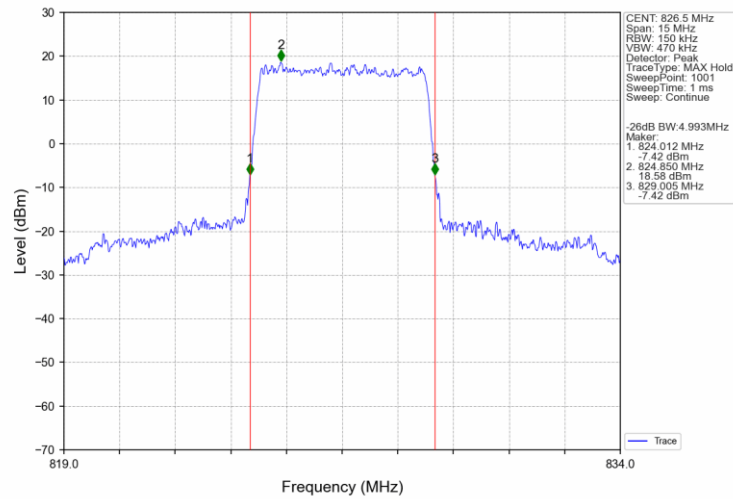
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



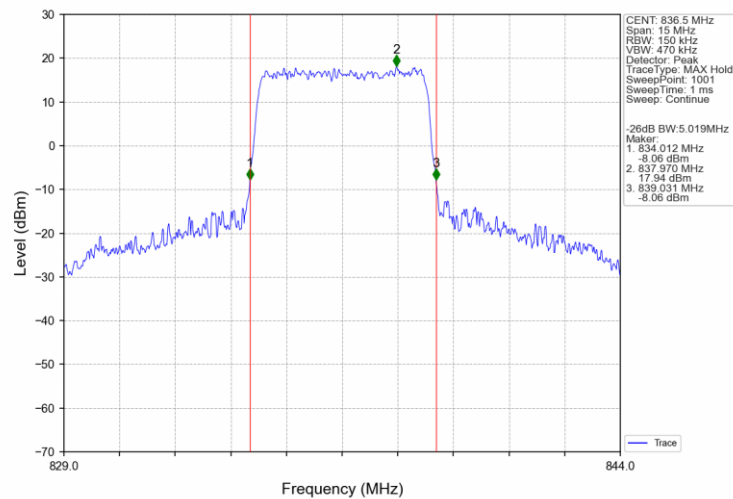
Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



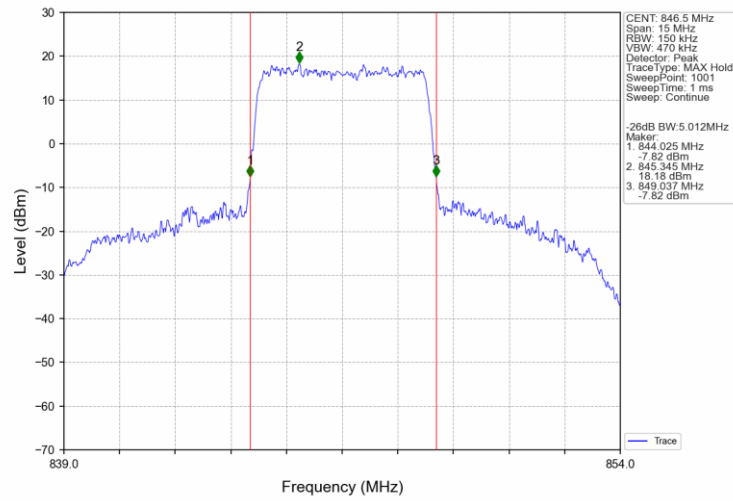
Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



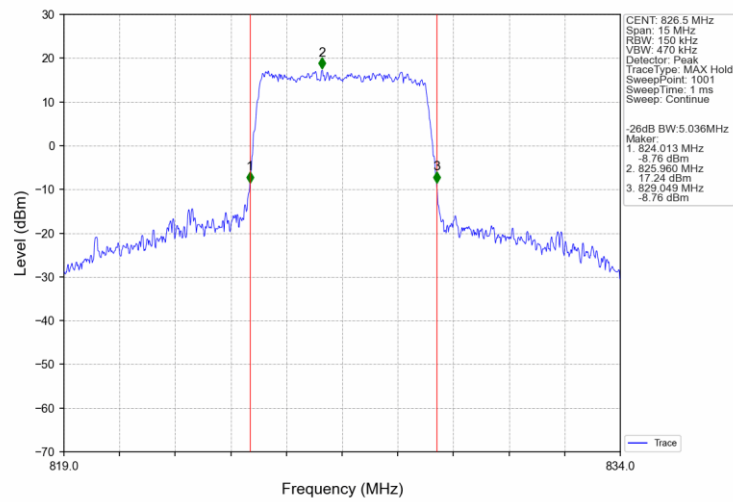
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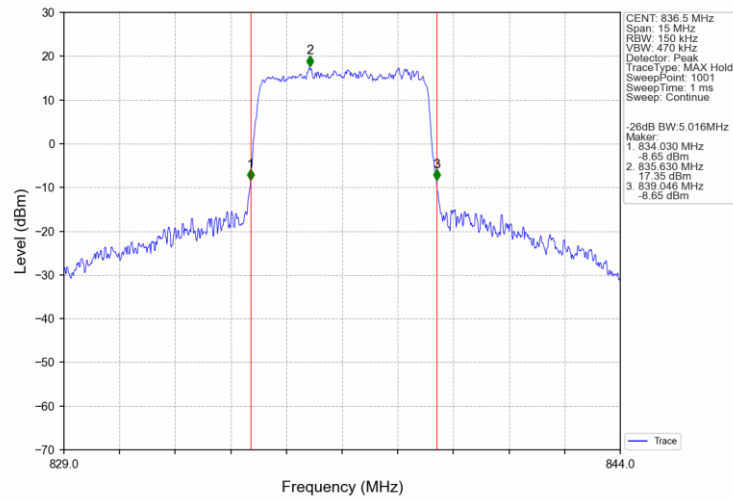
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



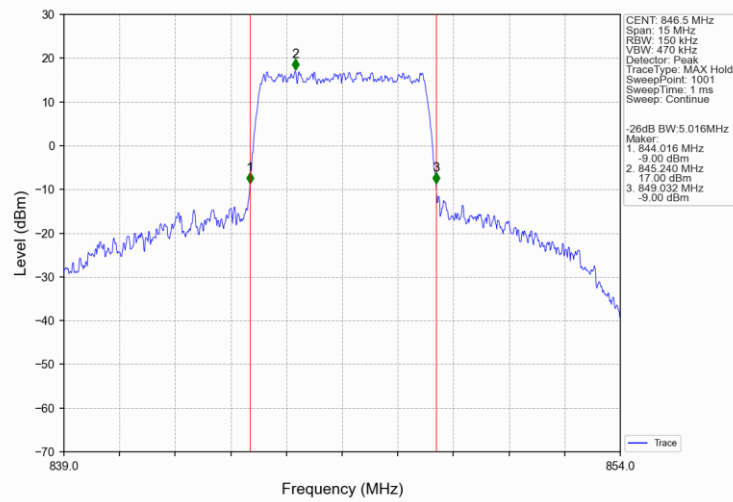
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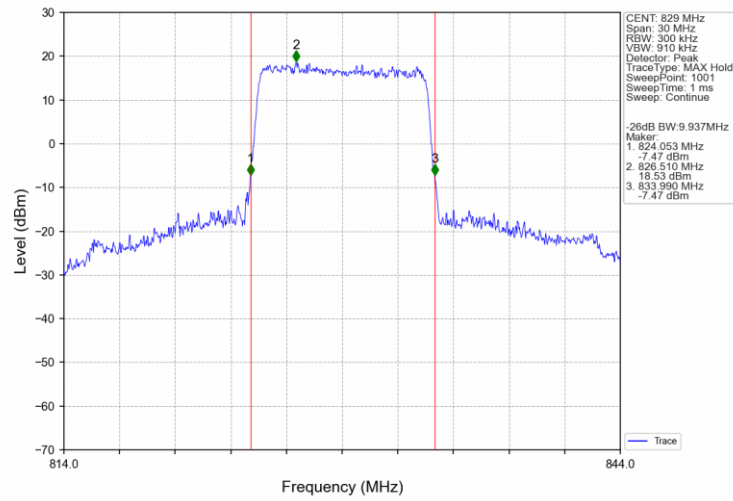
Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



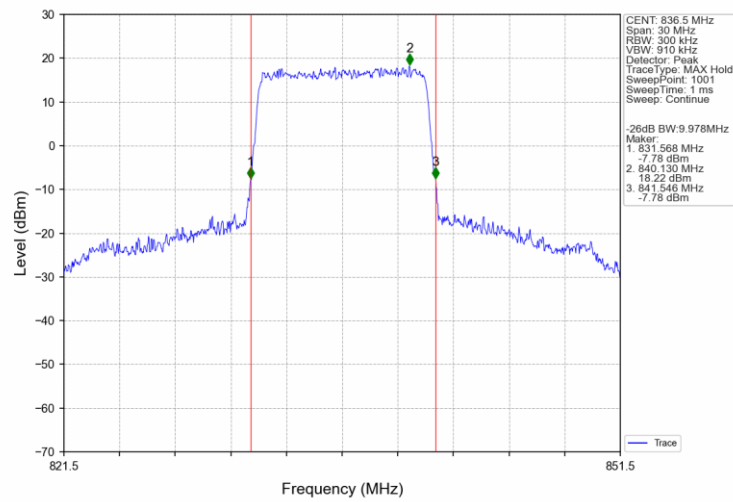
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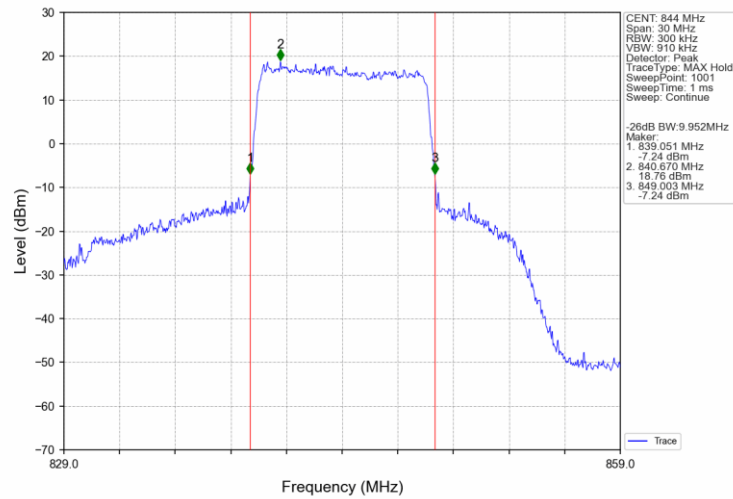
Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



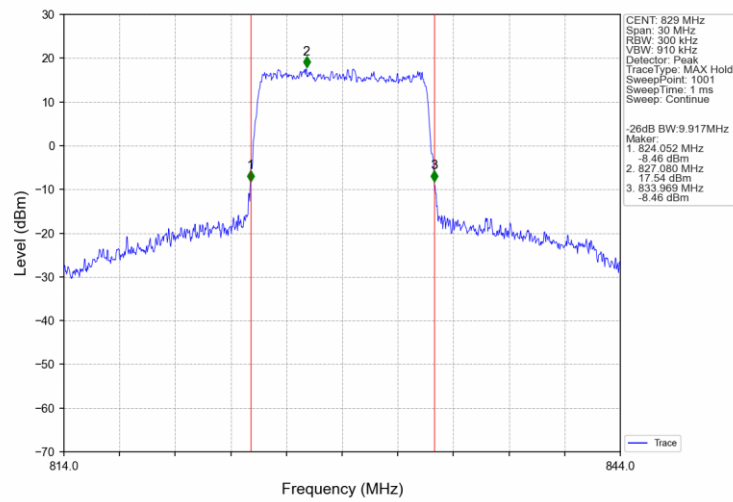
Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



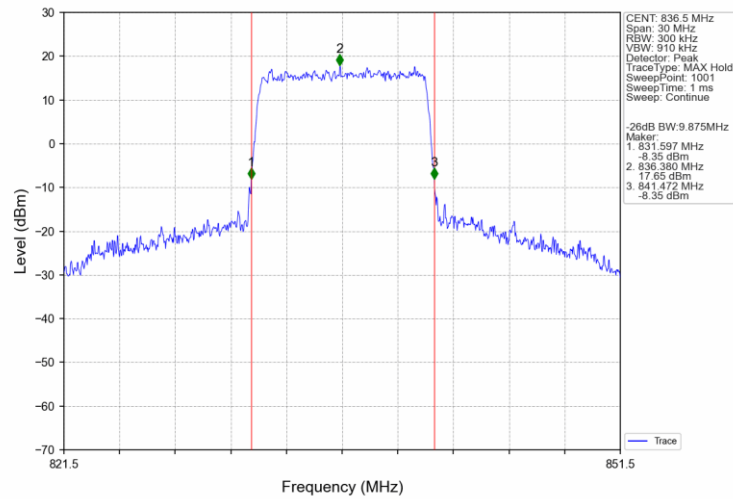
Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



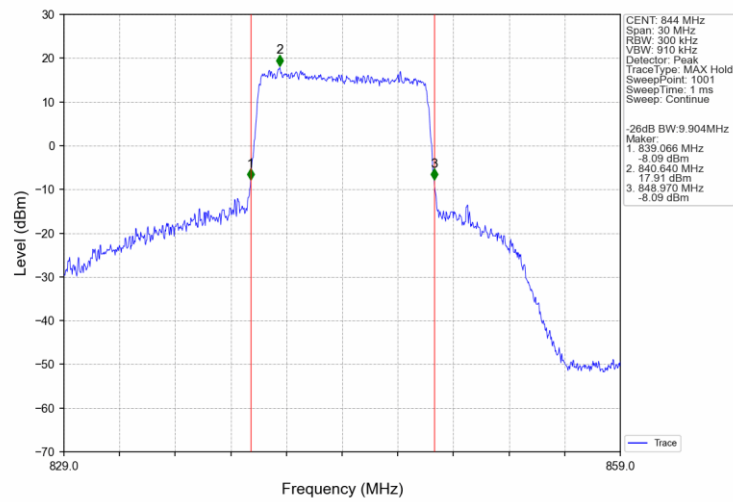
Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



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	4.74	<=13	Pass
	836.5	6	0	4.97	<=13	Pass
	848.3	6	0	4.38	<=13	Pass
16QAM	824.7	6	0	5.72	<=13	Pass
	836.5	6	0	5.84	<=13	Pass
	848.3	6	0	5.27	<=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	4.81	<=13	Pass
	836.5	15	0	5.20	<=13	Pass
	847.5	15	0	4.86	<=13	Pass
16QAM	825.5	15	0	5.76	<=13	Pass
	836.5	15	0	6.03	<=13	Pass
	847.5	15	0	5.69	<=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	5.40	<=13	Pass
	836.5	25	0	5.39	<=13	Pass
	846.5	25	0	5.24	<=13	Pass
16QAM	826.5	25	0	6.10	<=13	Pass
	836.5	25	0	6.14	<=13	Pass
	846.5	25	0	5.98	<=13	Pass

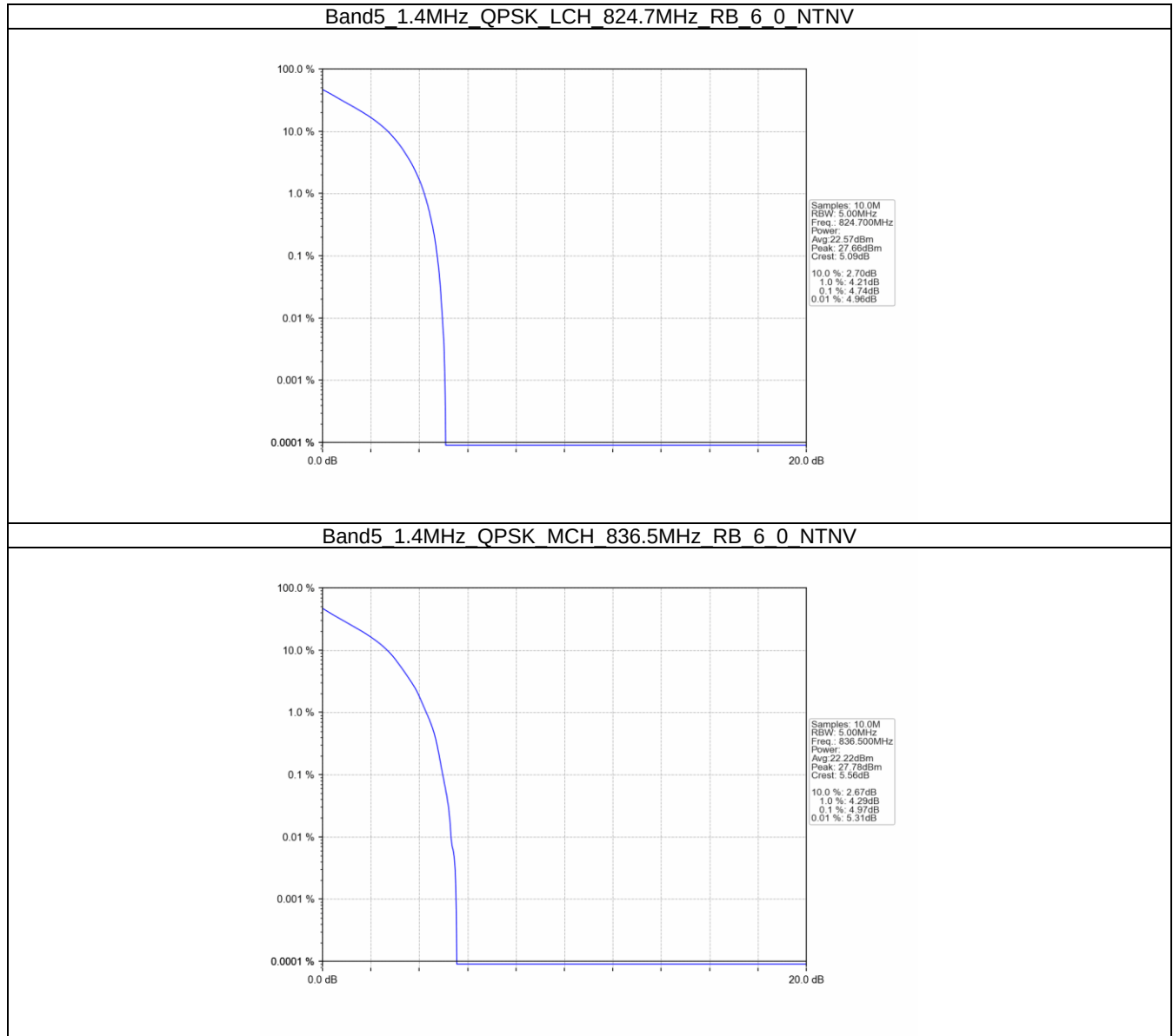
5.1.4 B5_10MHz

Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	829	50	0	5.42	<=13	Pass
	836.5	50	0	5.35	<=13	Pass
	844	50	0	5.24	<=13	Pass
16QAM	829	50	0	6.21	<=13	Pass
	836.5	50	0	6.16	<=13	Pass
	844	50	0	5.99	<=13	Pass

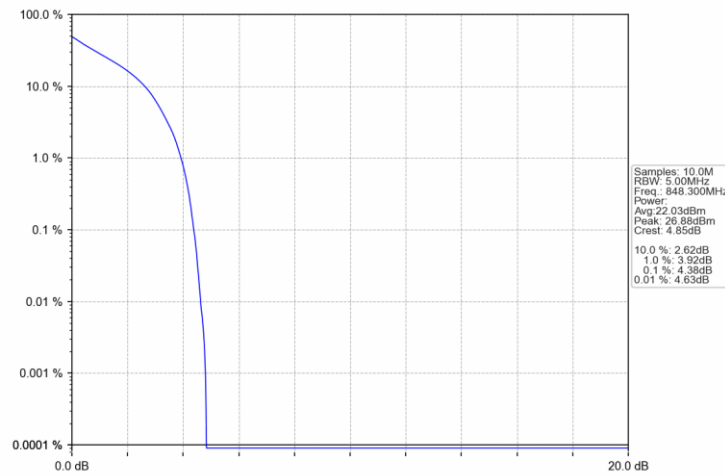


5.2 Test Graph

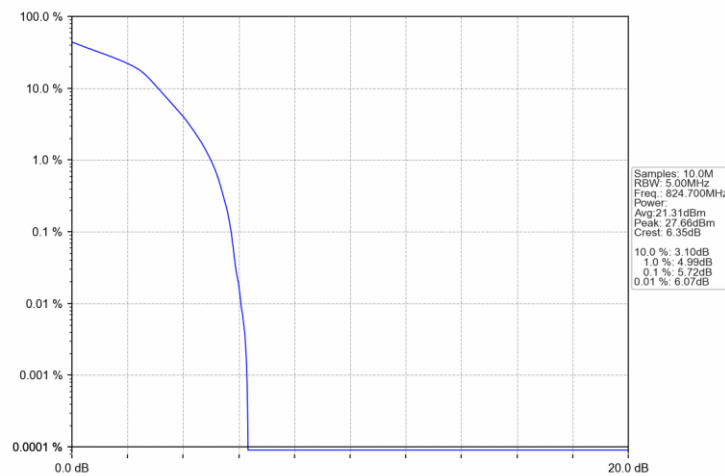
5.2.1 B5_1.4MHz



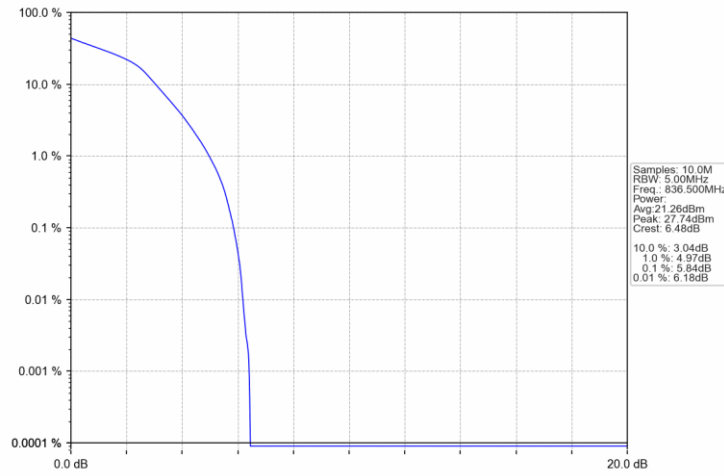
Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



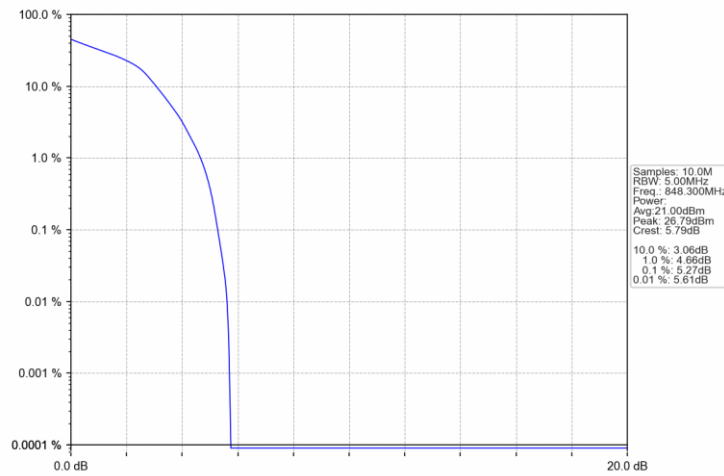
Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV

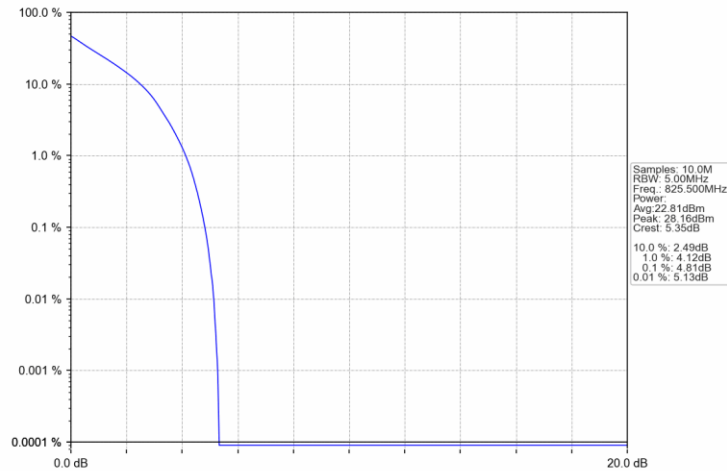


Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV

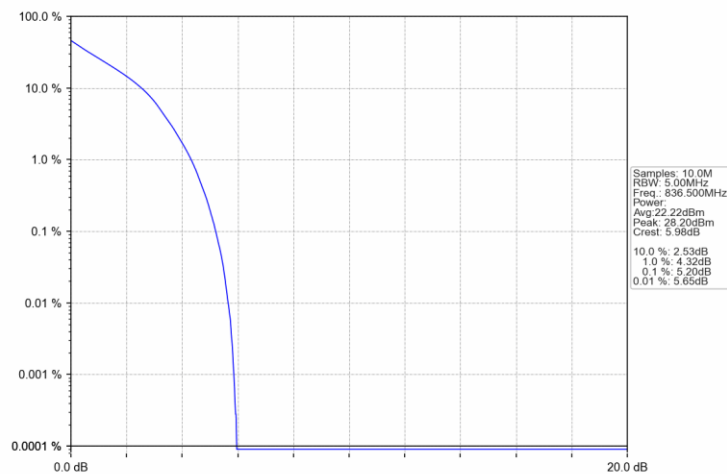


5.2.2 B5_3MHz

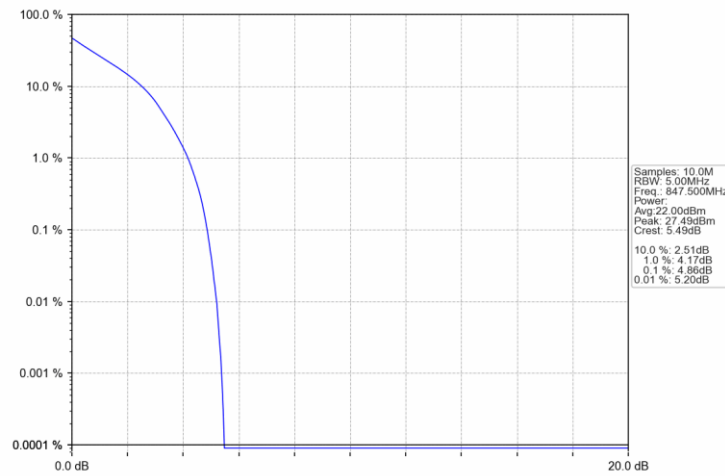
Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



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

