

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	23.90	-2.12	19.63	<=38.45	Pass
			2	23.98	-2.12	19.71	<=38.45	Pass
			5	23.86	-2.12	19.59	<=38.45	Pass
		3	0	23.87	-2.12	19.60	<=38.45	Pass
			2	23.89	-2.12	19.62	<=38.45	Pass
			3	23.88	-2.12	19.61	<=38.45	Pass
		6	0	22.91	-2.12	18.64	<=38.45	Pass
	836.5	1	0	23.92	-2.12	19.65	<=38.45	Pass
			2	24.01	-2.12	19.74	<=38.45	Pass
			5	23.96	-2.12	19.69	<=38.45	Pass
		3	0	23.97	-2.12	19.70	<=38.45	Pass
			2	24.03	-2.12	19.76	<=38.45	Pass
			3	23.99	-2.12	19.72	<=38.45	Pass
		6	0	23.01	-2.12	18.74	<=38.45	Pass
	848.3	1	0	23.71	-2.12	19.44	<=38.45	Pass
			2	23.82	-2.12	19.55	<=38.45	Pass
			5	23.83	-2.12	19.56	<=38.45	Pass
		3	0	23.63	-2.12	19.36	<=38.45	Pass
			2	23.65	-2.12	19.38	<=38.45	Pass
			3	23.61	-2.12	19.34	<=38.45	Pass
		6	0	22.74	-2.12	18.47	<=38.45	Pass
16QAM	824.7	1	0	22.88	-2.12	18.61	<=38.45	Pass
			2	22.94	-2.12	18.67	<=38.45	Pass
			5	22.96	-2.12	18.69	<=38.45	Pass
		3	0	22.87	-2.12	18.60	<=38.45	Pass
			2	22.88	-2.12	18.61	<=38.45	Pass
			3	22.83	-2.12	18.56	<=38.45	Pass
		6	0	21.88	-2.12	17.61	<=38.45	Pass
	836.5	1	0	23.06	-2.12	18.79	<=38.45	Pass
			2	23.13	-2.12	18.86	<=38.45	Pass
			5	23.13	-2.12	18.86	<=38.45	Pass
		3	0	23.06	-2.12	18.79	<=38.45	Pass
			2	23.05	-2.12	18.78	<=38.45	Pass
			3	23.03	-2.12	18.76	<=38.45	Pass
		6	0	22.03	-2.12	17.76	<=38.45	Pass
	848.3	1	0	22.75	-2.12	18.48	<=38.45	Pass
			2	22.77	-2.12	18.50	<=38.45	Pass
			5	22.69	-2.12	18.42	<=38.45	Pass
		3	0	22.70	-2.12	18.43	<=38.45	Pass
			2	22.72	-2.12	18.45	<=38.45	Pass
			3	22.67	-2.12	18.40	<=38.45	Pass
		6	0	21.68	-2.12	17.41	<=38.45	Pass
64QAM	824.7	1	0	22.13	-2.12	17.86	<=38.45	Pass
			2	22.19	-2.12	17.92	<=38.45	Pass
			5	22.10	-2.12	17.83	<=38.45	Pass
		3	0	21.93	-2.12	17.66	<=38.45	Pass
			2	21.96	-2.12	17.69	<=38.45	Pass
			3	21.92	-2.12	17.65	<=38.45	Pass
		6	0	20.90	-2.12	16.63	<=38.45	Pass

	836.5	1	0	22.14	-2.12	17.87	<=38.45	Pass
			2	22.26	-2.12	17.99	<=38.45	Pass
			5	22.26	-2.12	17.99	<=38.45	Pass
		3	0	22.01	-2.12	17.74	<=38.45	Pass
			2	22.15	-2.12	17.88	<=38.45	Pass
			3	22.06	-2.12	17.79	<=38.45	Pass
		6	0	21.08	-2.12	16.81	<=38.45	Pass
	848.3	1	0	21.98	-2.12	17.71	<=38.45	Pass
			2	22.03	-2.12	17.76	<=38.45	Pass
			5	21.93	-2.12	17.66	<=38.45	Pass
		3	0	21.81	-2.12	17.54	<=38.45	Pass
			2	21.81	-2.12	17.54	<=38.45	Pass
			3	21.81	-2.12	17.54	<=38.45	Pass
		6	0	20.72	-2.12	16.45	<=38.45	Pass
256QAM	824.7	1	0	18.94	-2.12	14.67	<=38.45	Pass
			2	19.05	-2.12	14.78	<=38.45	Pass
			5	19.00	-2.12	14.73	<=38.45	Pass
		3	0	18.94	-2.12	14.67	<=38.45	Pass
			2	19.02	-2.12	14.75	<=38.45	Pass
			3	18.99	-2.12	14.72	<=38.45	Pass
		6	0	18.85	-2.12	14.58	<=38.45	Pass
	836.5	1	0	19.02	-2.12	14.75	<=38.45	Pass
			2	19.17	-2.12	14.90	<=38.45	Pass
			5	19.14	-2.12	14.87	<=38.45	Pass
		3	0	19.09	-2.12	14.82	<=38.45	Pass
			2	19.13	-2.12	14.86	<=38.45	Pass
			3	19.08	-2.12	14.81	<=38.45	Pass
	6	0	19.06	-2.12	14.79	<=38.45	Pass	
	848.3	1	0	18.76	-2.12	14.49	<=38.45	Pass
			2	18.78	-2.12	14.51	<=38.45	Pass
			5	18.81	-2.12	14.54	<=38.45	Pass
		3	0	18.76	-2.12	14.49	<=38.45	Pass
			2	18.82	-2.12	14.55	<=38.45	Pass
			3	18.73	-2.12	14.46	<=38.45	Pass
		6	0	18.77	-2.12	14.50	<=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	23.78	-2.12	19.51	<=38.45	Pass
			7	23.91	-2.12	19.64	<=38.45	Pass
			14	23.78	-2.12	19.51	<=38.45	Pass
		8	0	22.91	-2.12	18.64	<=38.45	Pass
			4	22.94	-2.12	18.67	<=38.45	Pass
			7	22.91	-2.12	18.64	<=38.45	Pass
		15	0	22.91	-2.12	18.64	<=38.45	Pass
	836.5	1	0	23.89	-2.12	19.62	<=38.45	Pass
			7	24.03	-2.12	19.76	<=38.45	Pass
			14	23.93	-2.12	19.66	<=38.45	Pass
		8	0	22.95	-2.12	18.68	<=38.45	Pass
			4	23.10	-2.12	18.83	<=38.45	Pass
			7	23.06	-2.12	18.79	<=38.45	Pass
		15	0	22.96	-2.12	18.69	<=38.45	Pass
	847.5	1	0	23.68	-2.12	19.41	<=38.45	Pass

		8	7	23.74	-2.12	19.47	<=38.45	Pass
			14	23.79	-2.12	19.52	<=38.45	Pass
			0	22.80	-2.12	18.53	<=38.45	Pass
			4	22.82	-2.12	18.55	<=38.45	Pass
			7	22.76	-2.12	18.49	<=38.45	Pass
		15	0	22.74	-2.12	18.47	<=38.45	Pass
16QAM	825.5	1	0	22.85	-2.12	18.58	<=38.45	Pass
			7	22.96	-2.12	18.69	<=38.45	Pass
			14	22.87	-2.12	18.60	<=38.45	Pass
		8	0	21.89	-2.12	17.62	<=38.45	Pass
			4	21.90	-2.12	17.63	<=38.45	Pass
			7	21.89	-2.12	17.62	<=38.45	Pass
		15	0	21.90	-2.12	17.63	<=38.45	Pass
	836.5	1	0	22.92	-2.12	18.65	<=38.45	Pass
			7	23.14	-2.12	18.87	<=38.45	Pass
			14	23.03	-2.12	18.76	<=38.45	Pass
		8	0	21.99	-2.12	17.72	<=38.45	Pass
			4	22.07	-2.12	17.80	<=38.45	Pass
			7	22.05	-2.12	17.78	<=38.45	Pass
		15	0	21.95	-2.12	17.68	<=38.45	Pass
	847.5	1	0	22.89	-2.12	18.62	<=38.45	Pass
			7	22.89	-2.12	18.62	<=38.45	Pass
			14	22.84	-2.12	18.57	<=38.45	Pass
		8	0	21.78	-2.12	17.51	<=38.45	Pass
			4	21.80	-2.12	17.53	<=38.45	Pass
			7	21.74	-2.12	17.47	<=38.45	Pass
		15	0	21.74	-2.12	17.47	<=38.45	Pass
64QAM	825.5	1	0	22.02	-2.12	17.75	<=38.45	Pass
			7	22.08	-2.12	17.81	<=38.45	Pass
			14	21.96	-2.12	17.69	<=38.45	Pass
		8	0	20.90	-2.12	16.63	<=38.45	Pass
			4	20.91	-2.12	16.64	<=38.45	Pass
			7	20.93	-2.12	16.66	<=38.45	Pass
		15	0	20.87	-2.12	16.60	<=38.45	Pass
	836.5	1	0	22.19	-2.12	17.92	<=38.45	Pass
			7	22.39	-2.12	18.12	<=38.45	Pass
			14	22.25	-2.12	17.98	<=38.45	Pass
		8	0	20.98	-2.12	16.71	<=38.45	Pass
			4	21.10	-2.12	16.83	<=38.45	Pass
			7	21.06	-2.12	16.79	<=38.45	Pass
		15	0	20.96	-2.12	16.69	<=38.45	Pass
	847.5	1	0	22.05	-2.12	17.78	<=38.45	Pass
			7	22.01	-2.12	17.74	<=38.45	Pass
			14	21.96	-2.12	17.69	<=38.45	Pass
		8	0	20.85	-2.12	16.58	<=38.45	Pass
			4	20.83	-2.12	16.56	<=38.45	Pass
			7	20.84	-2.12	16.57	<=38.45	Pass
		15	0	20.79	-2.12	16.52	<=38.45	Pass
256QAM	825.5	1	0	19.00	-2.12	14.73	<=38.45	Pass
			7	19.09	-2.12	14.82	<=38.45	Pass
			14	18.94	-2.12	14.67	<=38.45	Pass
		8	0	18.88	-2.12	14.61	<=38.45	Pass
			4	18.93	-2.12	14.66	<=38.45	Pass
			7	18.89	-2.12	14.62	<=38.45	Pass
		15	0	18.91	-2.12	14.64	<=38.45	Pass
	836.5	1	0	19.07	-2.12	14.80	<=38.45	Pass
			7	19.26	-2.12	14.99	<=38.45	Pass
			14	19.12	-2.12	14.85	<=38.45	Pass
		8	0	19.03	-2.12	14.76	<=38.45	Pass

			4	19.08	-2.12	14.81	<=38.45	Pass
			7	19.06	-2.12	14.79	<=38.45	Pass
		15	0	19.03	-2.12	14.76	<=38.45	Pass
	847.5	1	0	18.90	-2.12	14.63	<=38.45	Pass
			7	18.92	-2.12	14.65	<=38.45	Pass
			14	18.80	-2.12	14.53	<=38.45	Pass
		8	0	18.77	-2.12	14.50	<=38.45	Pass
			4	18.84	-2.12	14.57	<=38.45	Pass
			7	18.81	-2.12	14.54	<=38.45	Pass
		15	0	18.81	-2.12	14.54	<=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	23.75	-2.12	19.48	<=38.45	Pass
			13	23.88	-2.12	19.61	<=38.45	Pass
			24	23.78	-2.12	19.51	<=38.45	Pass
		12	0	22.85	-2.12	18.58	<=38.45	Pass
			6	22.88	-2.12	18.61	<=38.45	Pass
			13	22.85	-2.12	18.58	<=38.45	Pass
		25	0	22.86	-2.12	18.59	<=38.45	Pass
	836.5	1	0	23.90	-2.12	19.63	<=38.45	Pass
			13	24.06	-2.12	19.79	<=38.45	Pass
			24	23.93	-2.12	19.66	<=38.45	Pass
		12	0	22.94	-2.12	18.67	<=38.45	Pass
			6	22.97	-2.12	18.70	<=38.45	Pass
			13	23.00	-2.12	18.73	<=38.45	Pass
		25	0	22.94	-2.12	18.67	<=38.45	Pass
	846.5	1	0	23.83	-2.12	19.56	<=38.45	Pass
			13	23.85	-2.12	19.58	<=38.45	Pass
			24	23.85	-2.12	19.58	<=38.45	Pass
		12	0	22.78	-2.12	18.51	<=38.45	Pass
			6	22.77	-2.12	18.50	<=38.45	Pass
			13	22.72	-2.12	18.45	<=38.45	Pass
		25	0	22.72	-2.12	18.45	<=38.45	Pass
16QAM	826.5	1	0	22.74	-2.12	18.47	<=38.45	Pass
			13	22.81	-2.12	18.54	<=38.45	Pass
			24	22.77	-2.12	18.50	<=38.45	Pass
		12	0	21.83	-2.12	17.56	<=38.45	Pass
			6	21.81	-2.12	17.54	<=38.45	Pass
			13	21.84	-2.12	17.57	<=38.45	Pass
		25	0	21.85	-2.12	17.58	<=38.45	Pass
	836.5	1	0	22.97	-2.12	18.70	<=38.45	Pass
			13	23.07	-2.12	18.80	<=38.45	Pass
			24	23.06	-2.12	18.79	<=38.45	Pass
		12	0	21.94	-2.12	17.67	<=38.45	Pass
			6	21.96	-2.12	17.69	<=38.45	Pass
			13	22.04	-2.12	17.77	<=38.45	Pass
		25	0	21.95	-2.12	17.68	<=38.45	Pass
	846.5	1	0	22.89	-2.12	18.62	<=38.45	Pass
			13	23.01	-2.12	18.74	<=38.45	Pass
			24	22.77	-2.12	18.50	<=38.45	Pass
		12	0	21.76	-2.12	17.49	<=38.45	Pass
			6	21.76	-2.12	17.49	<=38.45	Pass

			13	21.75	-2.12	17.48	<=38.45	Pass	
		25	0	21.72	-2.12	17.45	<=38.45	Pass	
64QAM	826.5	1	0	22.05	-2.12	17.78	<=38.45	Pass	
			13	22.12	-2.12	17.85	<=38.45	Pass	
			24	22.04	-2.12	17.77	<=38.45	Pass	
			0	20.92	-2.12	16.65	<=38.45	Pass	
		12	6	20.86	-2.12	16.59	<=38.45	Pass	
			13	20.88	-2.12	16.61	<=38.45	Pass	
			25	0	20.85	-2.12	16.58	<=38.45	Pass
		836.5	1	0	22.21	-2.12	17.94	<=38.45	Pass
				13	22.32	-2.12	18.05	<=38.45	Pass
				24	22.18	-2.12	17.91	<=38.45	Pass
	12		0	20.97	-2.12	16.70	<=38.45	Pass	
			6	21.01	-2.12	16.74	<=38.45	Pass	
			13	21.05	-2.12	16.78	<=38.45	Pass	
	25		0	20.96	-2.12	16.69	<=38.45	Pass	
	846.5	1	0	22.07	-2.12	17.80	<=38.45	Pass	
			13	22.10	-2.12	17.83	<=38.45	Pass	
			24	21.97	-2.12	17.70	<=38.45	Pass	
		12	0	20.75	-2.12	16.48	<=38.45	Pass	
			6	20.84	-2.12	16.57	<=38.45	Pass	
			13	20.80	-2.12	16.53	<=38.45	Pass	
		25	0	20.74	-2.12	16.47	<=38.45	Pass	
	256QAM	826.5	1	0	18.93	-2.12	14.66	<=38.45	Pass
				13	18.96	-2.12	14.69	<=38.45	Pass
24				18.94	-2.12	14.67	<=38.45	Pass	
12			0	18.87	-2.12	14.60	<=38.45	Pass	
			6	18.91	-2.12	14.64	<=38.45	Pass	
			13	18.86	-2.12	14.59	<=38.45	Pass	
25			0	18.83	-2.12	14.56	<=38.45	Pass	
836.5		1	0	19.06	-2.12	14.79	<=38.45	Pass	
			13	19.21	-2.12	14.94	<=38.45	Pass	
			24	19.05	-2.12	14.78	<=38.45	Pass	
		12	0	19.05	-2.12	14.78	<=38.45	Pass	
			6	19.09	-2.12	14.82	<=38.45	Pass	
			13	19.08	-2.12	14.81	<=38.45	Pass	
		25	0	18.98	-2.12	14.71	<=38.45	Pass	
846.5		1	0	18.92	-2.12	14.65	<=38.45	Pass	
			13	18.95	-2.12	14.68	<=38.45	Pass	
			24	18.88	-2.12	14.61	<=38.45	Pass	
		12	0	18.76	-2.12	14.49	<=38.45	Pass	
			6	18.77	-2.12	14.50	<=38.45	Pass	
			13	18.78	-2.12	14.51	<=38.45	Pass	
		25	0	18.75	-2.12	14.48	<=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	23.79	-2.12	19.52	<=38.45	Pass
			25	23.80	-2.12	19.53	<=38.45	Pass
			49	23.88	-2.12	19.61	<=38.45	Pass
		25	0	22.79	-2.12	18.52	<=38.45	Pass
			13	22.85	-2.12	18.58	<=38.45	Pass
			25	22.88	-2.12	18.61	<=38.45	Pass

		50	0	22.89	-2.12	18.62	<=38.45	Pass
		836.5	1	0	23.87	-2.12	19.60	<=38.45
				25	24.01	-2.12	19.74	<=38.45
				49	23.85	-2.12	19.58	<=38.45
				0	22.94	-2.12	18.67	<=38.45
		25		13	22.96	-2.12	18.69	<=38.45
				25	22.98	-2.12	18.71	<=38.45
				0	22.92	-2.12	18.65	<=38.45
		50	0	22.80	-2.12	18.53	<=38.45	Pass
		844	1	0	23.90	-2.12	19.63	<=38.45
				25	23.84	-2.12	19.57	<=38.45
				49	23.80	-2.12	19.53	<=38.45
			25	0	22.87	-2.12	18.60	<=38.45
				13	22.89	-2.12	18.62	<=38.45
				25	22.80	-2.12	18.53	<=38.45
			50	0	22.80	-2.12	18.53	<=38.45
				0	22.87	-2.12	18.60	<=38.45
16QAM	829	1		25	22.98	-2.12	18.71	<=38.45
				49	22.99	-2.12	18.72	<=38.45
				0	21.78	-2.12	17.51	<=38.45
		25		13	21.91	-2.12	17.64	<=38.45
				25	21.93	-2.12	17.66	<=38.45
				0	21.87	-2.12	17.60	<=38.45
		50	0	21.87	-2.12	17.60	<=38.45	Pass
	836.5	1		0	22.97	-2.12	18.70	<=38.45
				25	23.02	-2.12	18.75	<=38.45
				49	22.92	-2.12	18.65	<=38.45
		25		0	21.94	-2.12	17.67	<=38.45
				13	21.97	-2.12	17.70	<=38.45
				25	21.97	-2.12	17.70	<=38.45
		50	0	21.91	-2.12	17.64	<=38.45	Pass
	844	1		0	23.08	-2.12	18.81	<=38.45
				25	22.94	-2.12	18.67	<=38.45
				49	22.91	-2.12	18.64	<=38.45
		25		0	21.87	-2.12	17.60	<=38.45
				13	21.88	-2.12	17.61	<=38.45
				25	21.81	-2.12	17.54	<=38.45
		50	0	21.82	-2.12	17.55	<=38.45	Pass
64QAM	829	1		0	22.04	-2.12	17.77	<=38.45
				25	22.09	-2.12	17.82	<=38.45
				49	22.22	-2.12	17.95	<=38.45
		25		0	20.82	-2.12	16.55	<=38.45
				13	20.91	-2.12	16.64	<=38.45
				25	20.89	-2.12	16.62	<=38.45
		50	0	20.90	-2.12	16.63	<=38.45	Pass
	836.5	1		0	22.13	-2.12	17.86	<=38.45
				25	22.32	-2.12	18.05	<=38.45
				49	22.28	-2.12	18.01	<=38.45
		25		0	20.97	-2.12	16.70	<=38.45
				13	20.98	-2.12	16.71	<=38.45
				25	20.99	-2.12	16.72	<=38.45
		50	0	20.93	-2.12	16.66	<=38.45	Pass
	844	1		0	22.22	-2.12	17.95	<=38.45
				25	22.13	-2.12	17.86	<=38.45
				49	21.97	-2.12	17.70	<=38.45
		25		0	20.89	-2.12	16.62	<=38.45
				13	20.91	-2.12	16.64	<=38.45
				25	20.83	-2.12	16.56	<=38.45
		50	0	20.81	-2.12	16.54	<=38.45	Pass
256QAM	829	1		0	18.99	-2.12	14.72	<=38.45
				25	19.00	-2.12	14.73	<=38.45

			49	19.09	-2.12	14.82	<=38.45	Pass
		25	0	18.78	-2.12	14.51	<=38.45	Pass
			13	18.93	-2.12	14.66	<=38.45	Pass
			25	18.96	-2.12	14.69	<=38.45	Pass
		50	0	18.88	-2.12	14.61	<=38.45	Pass
	836.5	1	0	18.92	-2.12	14.65	<=38.45	Pass
			25	19.07	-2.12	14.80	<=38.45	Pass
			49	19.11	-2.12	14.84	<=38.45	Pass
		25	0	18.99	-2.12	14.72	<=38.45	Pass
			13	18.98	-2.12	14.71	<=38.45	Pass
			25	19.05	-2.12	14.78	<=38.45	Pass
		50	0	19.02	-2.12	14.75	<=38.45	Pass
		844	1	0	18.98	-2.12	14.71	<=38.45
	25			18.93	-2.12	14.66	<=38.45	Pass
	49			18.85	-2.12	14.58	<=38.45	Pass
	25		0	18.91	-2.12	14.64	<=38.45	Pass
			13	18.92	-2.12	14.65	<=38.45	Pass
			25	18.83	-2.12	14.56	<=38.45	Pass
	50		0	18.90	-2.12	14.63	<=38.45	Pass
Note1: ERP=Conducted Power+Antenna Gain-2.15								

2. Frequency Stability

2.1 Test Result

2.1.1 B5_10MHz

Band: 5 / Bandwidth: 10MHz									
Modulation	Frequency (MHz)	RB Allocation		Temp. (°C)	Voltage	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
		Size	Offset				Result	Limit	
QPSK	836.5	50	0	20	LV	0.047	0.0001	-2.5 to 2.5	Pass
					NV	0.807	0.0010	-2.5 to 2.5	Pass
					HV	0.301	0.0004	-2.5 to 2.5	Pass
				-30	NV	-0.586	-0.0007	-2.5 to 2.5	Pass
				-20	NV	-0.169	-0.0002	-2.5 to 2.5	Pass
				-10	NV	-0.629	-0.0008	-2.5 to 2.5	Pass
				0	NV	-0.333	-0.0004	-2.5 to 2.5	Pass
				10	NV	0.250	0.0003	-2.5 to 2.5	Pass
				30	NV	-0.298	-0.0004	-2.5 to 2.5	Pass
				40	NV	0.266	0.0003	-2.5 to 2.5	Pass
				50	NV	-0.303	-0.0004	-2.5 to 2.5	Pass

3. 99% & 26dB Bandwidth

3.1 Test Result

3.1.1 Band5_OBW

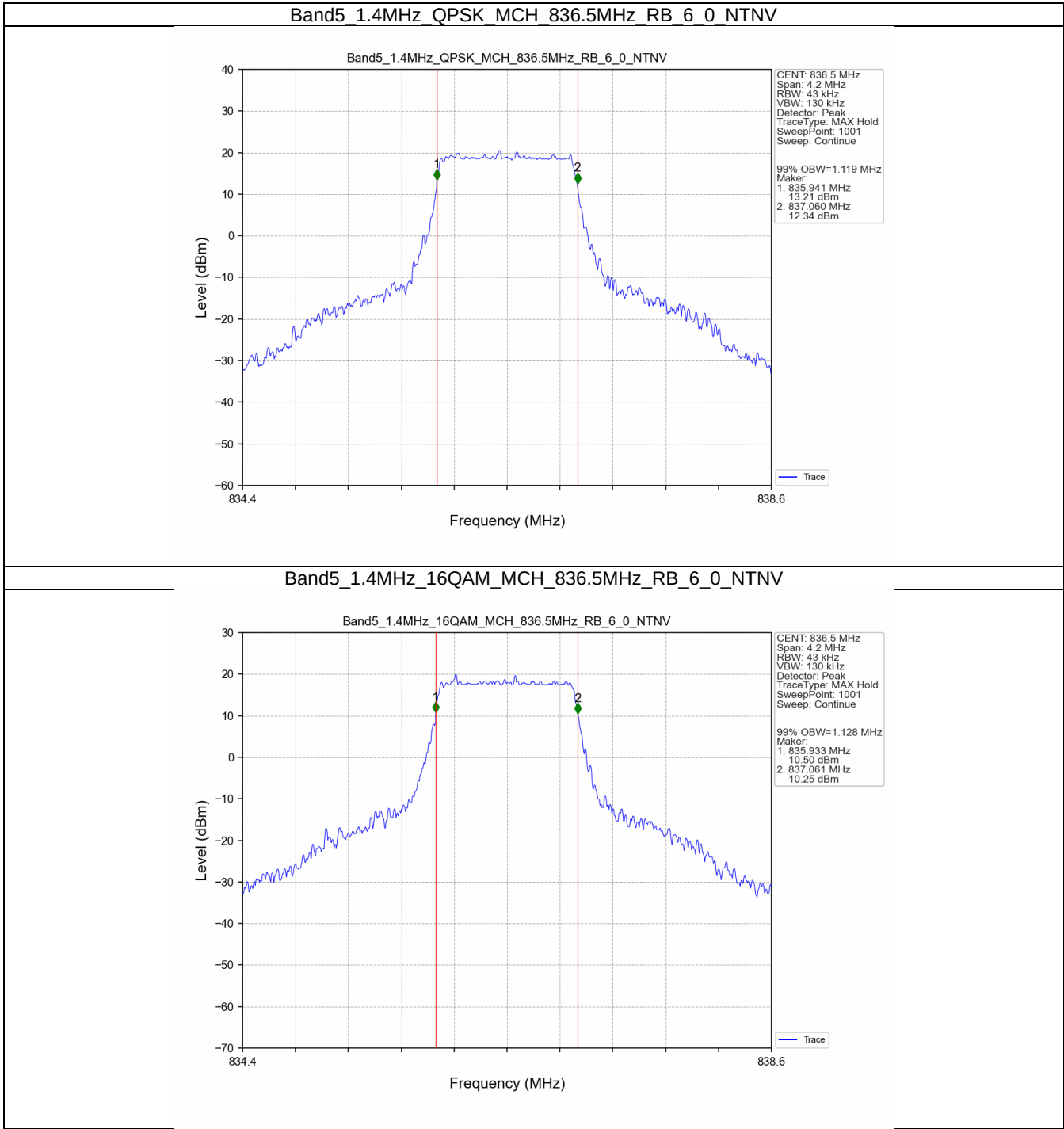
Band: 5 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	836.5	6	0	1.119	/	Pass
	16QAM	836.5	6	0	1.128	/	Pass
	64QAM	836.5	6	0	1.134	/	Pass
	256QAM	836.5	6	0	1.120	/	Pass
3	QPSK	836.5	15	0	2.748	/	Pass
	16QAM	836.5	15	0	2.765	/	Pass
	64QAM	836.5	15	0	2.754	/	Pass
	256QAM	836.5	15	0	2.741	/	Pass
5	QPSK	836.5	25	0	4.554	/	Pass
	16QAM	836.5	25	0	4.592	/	Pass
	64QAM	836.5	25	0	4.563	/	Pass
	256QAM	836.5	25	0	4.564	/	Pass
10	QPSK	836.5	50	0	9.079	/	Pass
	16QAM	836.5	50	0	9.074	/	Pass
	64QAM	836.5	50	0	9.074	/	Pass
	256QAM	836.5	50	0	9.057	/	Pass

3.1.2 Band5_XDB

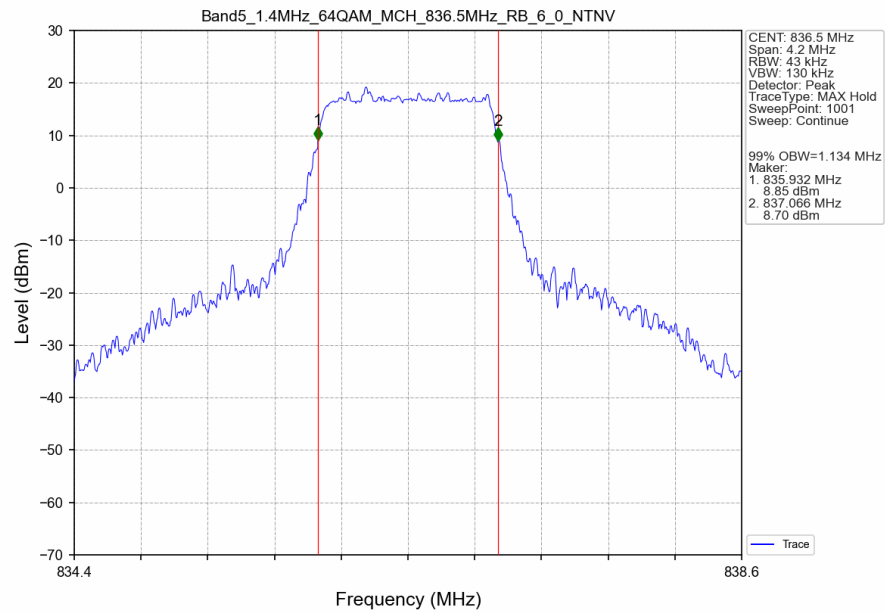
Band: 5 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	836.5	6	0	1.441	/	Pass
	16QAM	836.5	6	0	1.387	/	Pass
	64QAM	836.5	6	0	1.399	/	Pass
	256QAM	836.5	6	0	1.380	/	Pass
3	QPSK	836.5	15	0	3.138	/	Pass
	16QAM	836.5	15	0	3.125	/	Pass
	64QAM	836.5	15	0	3.153	/	Pass
	256QAM	836.5	15	0	3.114	/	Pass
5	QPSK	836.5	25	0	5.273	/	Pass
	16QAM	836.5	25	0	5.265	/	Pass
	64QAM	836.5	25	0	5.231	/	Pass
	256QAM	836.5	25	0	5.226	/	Pass
10	QPSK	836.5	50	0	10.193	/	Pass
	16QAM	836.5	50	0	10.244	/	Pass
	64QAM	836.5	50	0	10.184	/	Pass
	256QAM	836.5	50	0	10.115	/	Pass

3.2 Test Graph

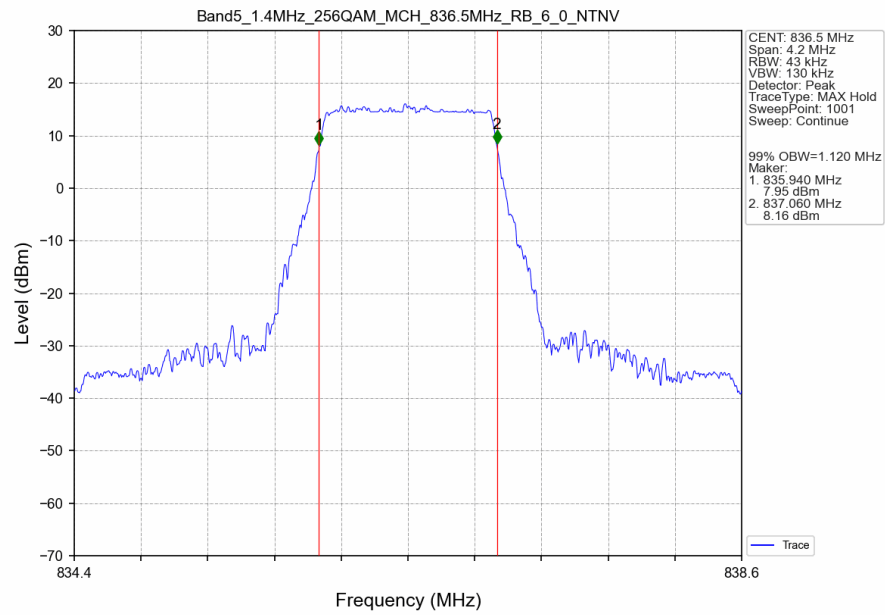
3.2.1 Band5_OBW



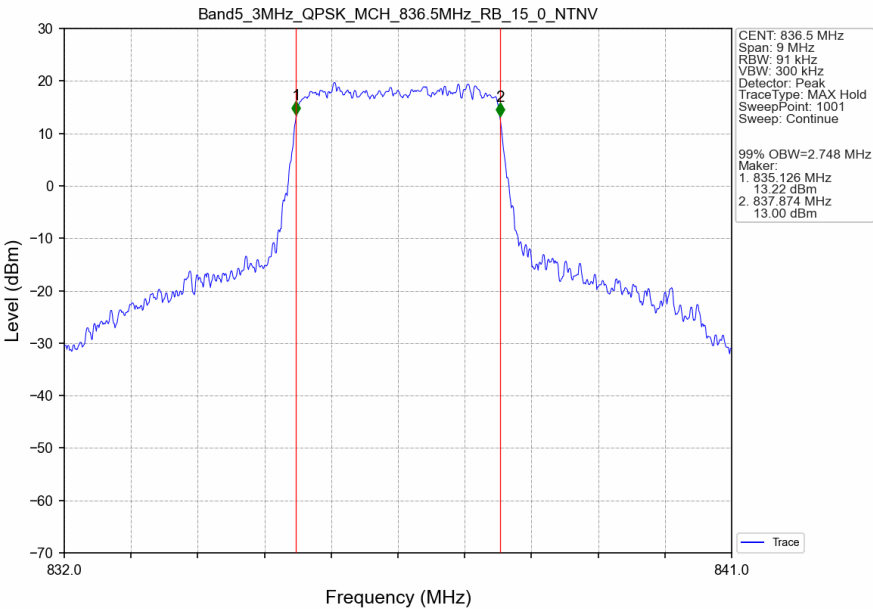
Band5 1.4MHz 64QAM MCH 836.5MHz RB 6 0 NTNV



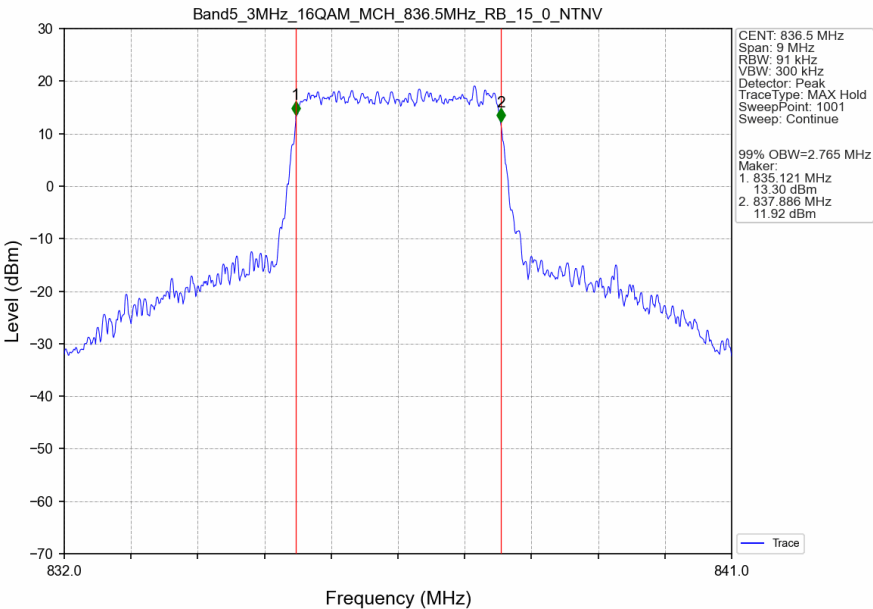
Band5 1.4MHz 256QAM MCH 836.5MHz RB 6 0 NTNV



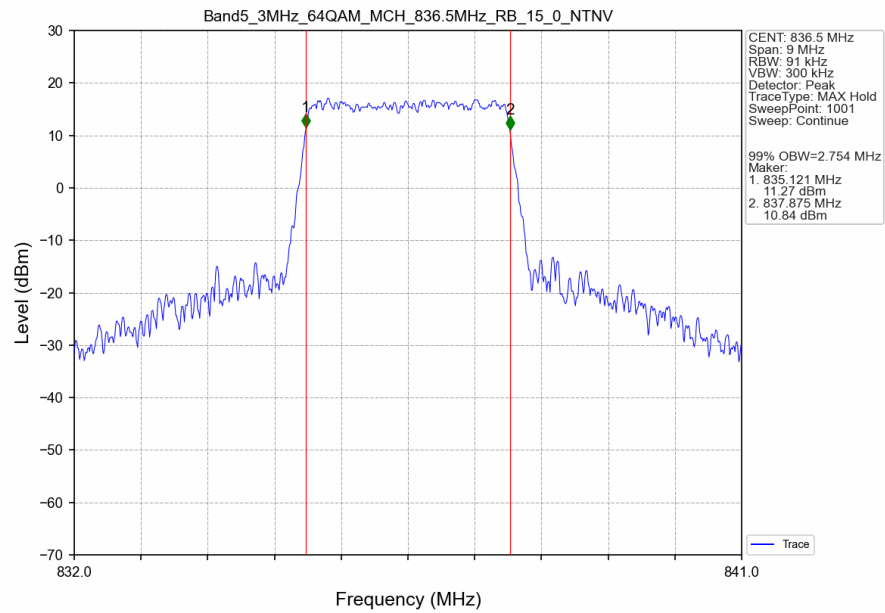
Band5 3MHz QPSK MCH 836.5MHz RB 15 0 NTNV



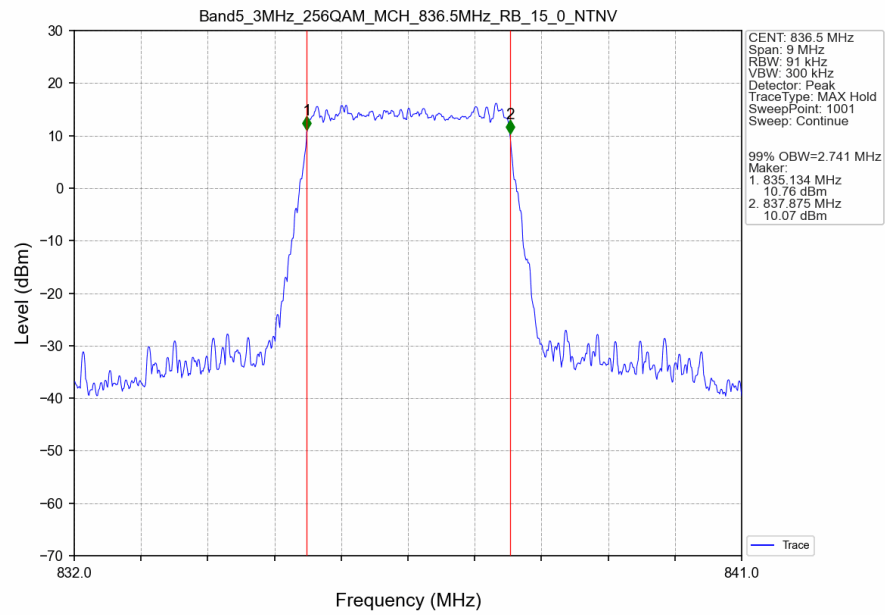
Band5 3MHz 16QAM MCH 836.5MHz RB 15 0 NTNV



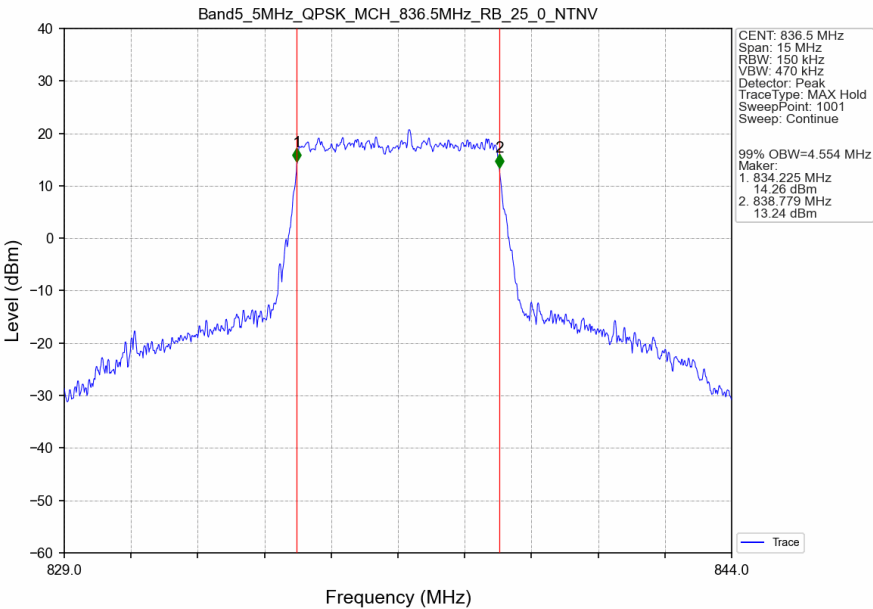
Band5 3MHz 64QAM MCH 836.5MHz RB 15 0 NTV



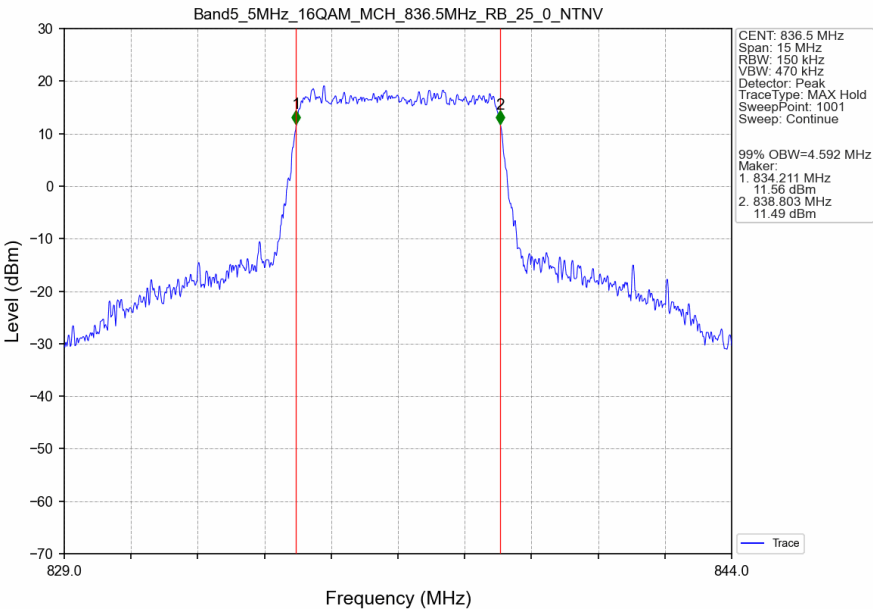
Band5 3MHz 256QAM MCH 836.5MHz RB 15 0 NTV



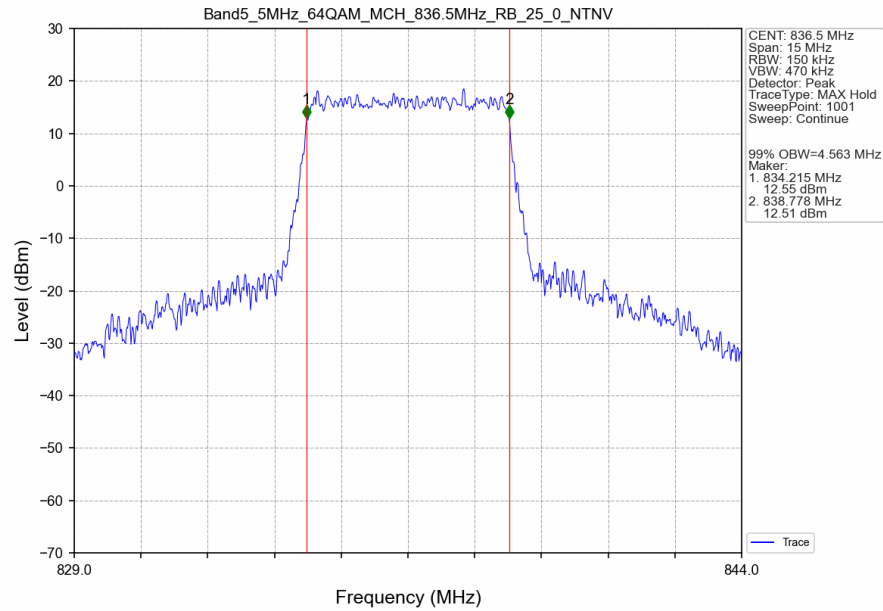
Band5 5MHz QPSK MCH 836.5MHz RB 25 0 NTNV



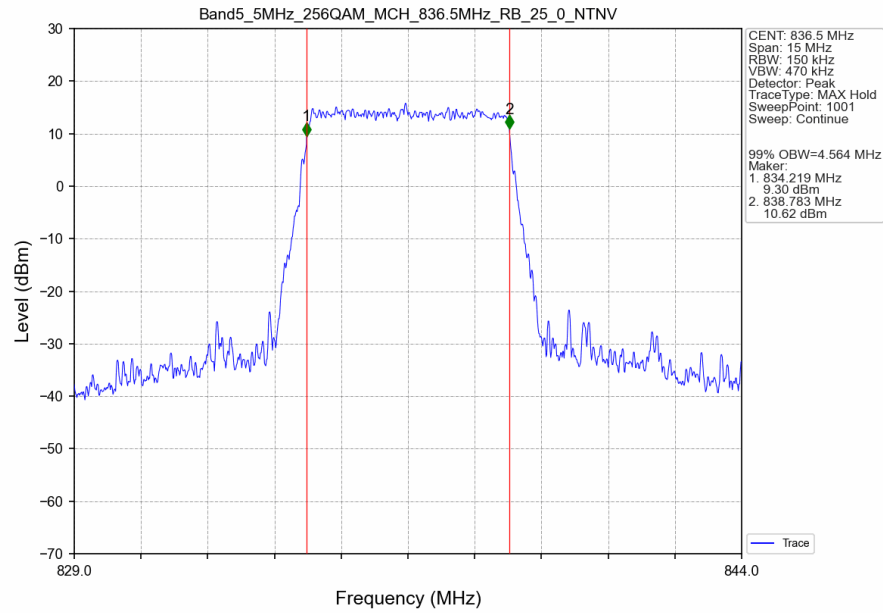
Band5 5MHz 16QAM MCH 836.5MHz RB 25 0 NTNV



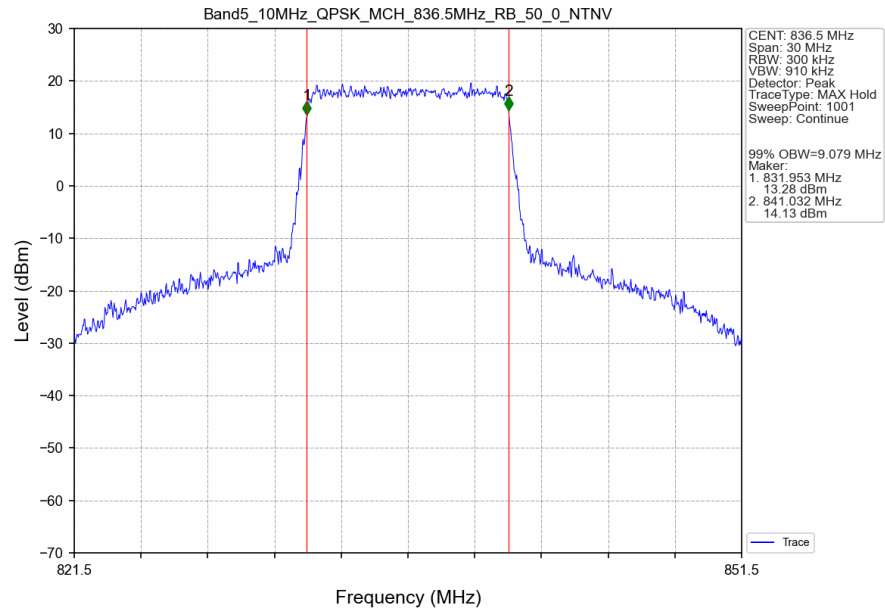
Band5_5MHz_64QAM_MCH_836.5MHz_RB_25_0_NTNV



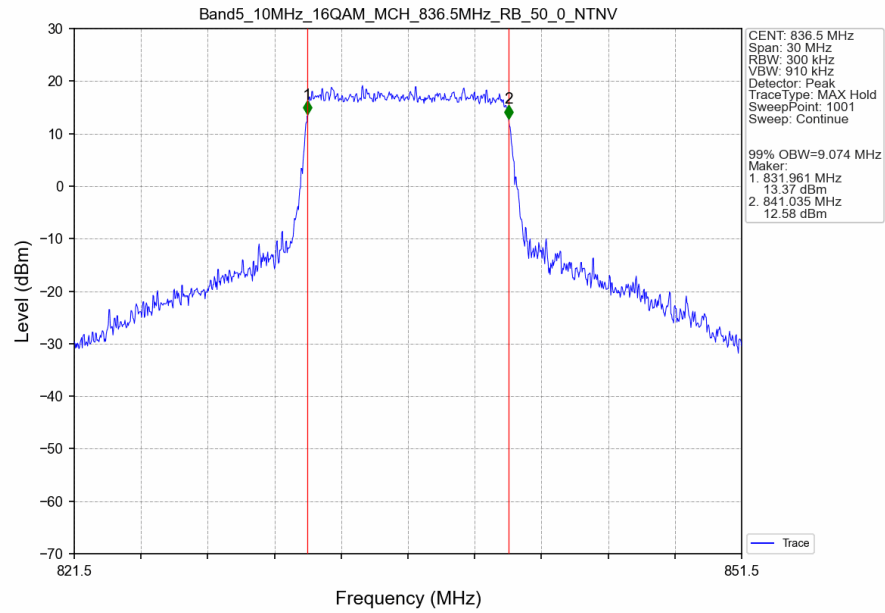
Band5_5MHz_256QAM_MCH_836.5MHz_RB_25_0_NTNV



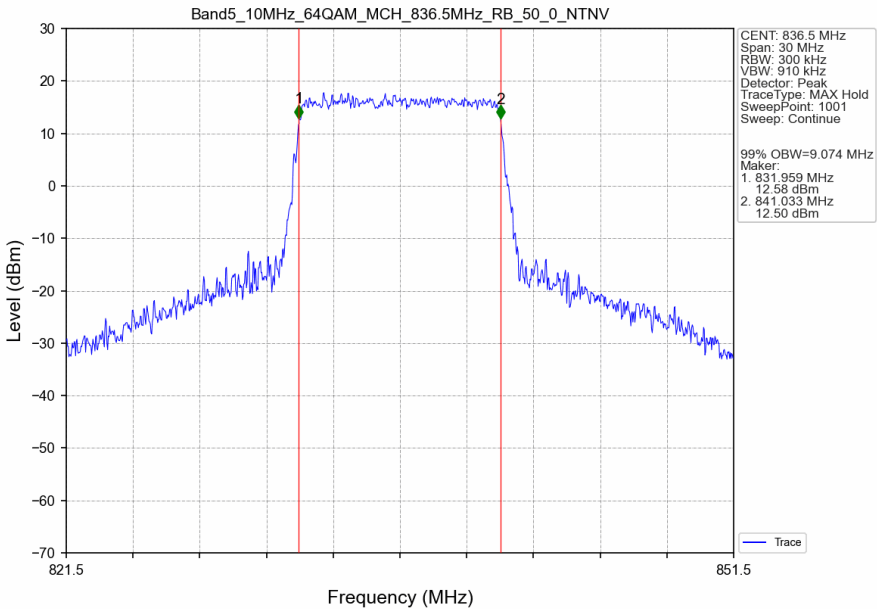
Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



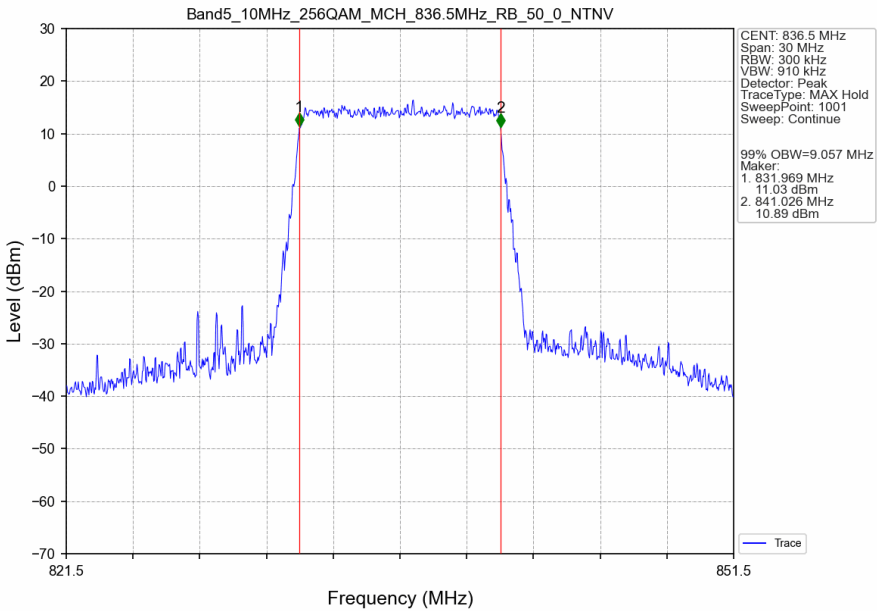
Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV



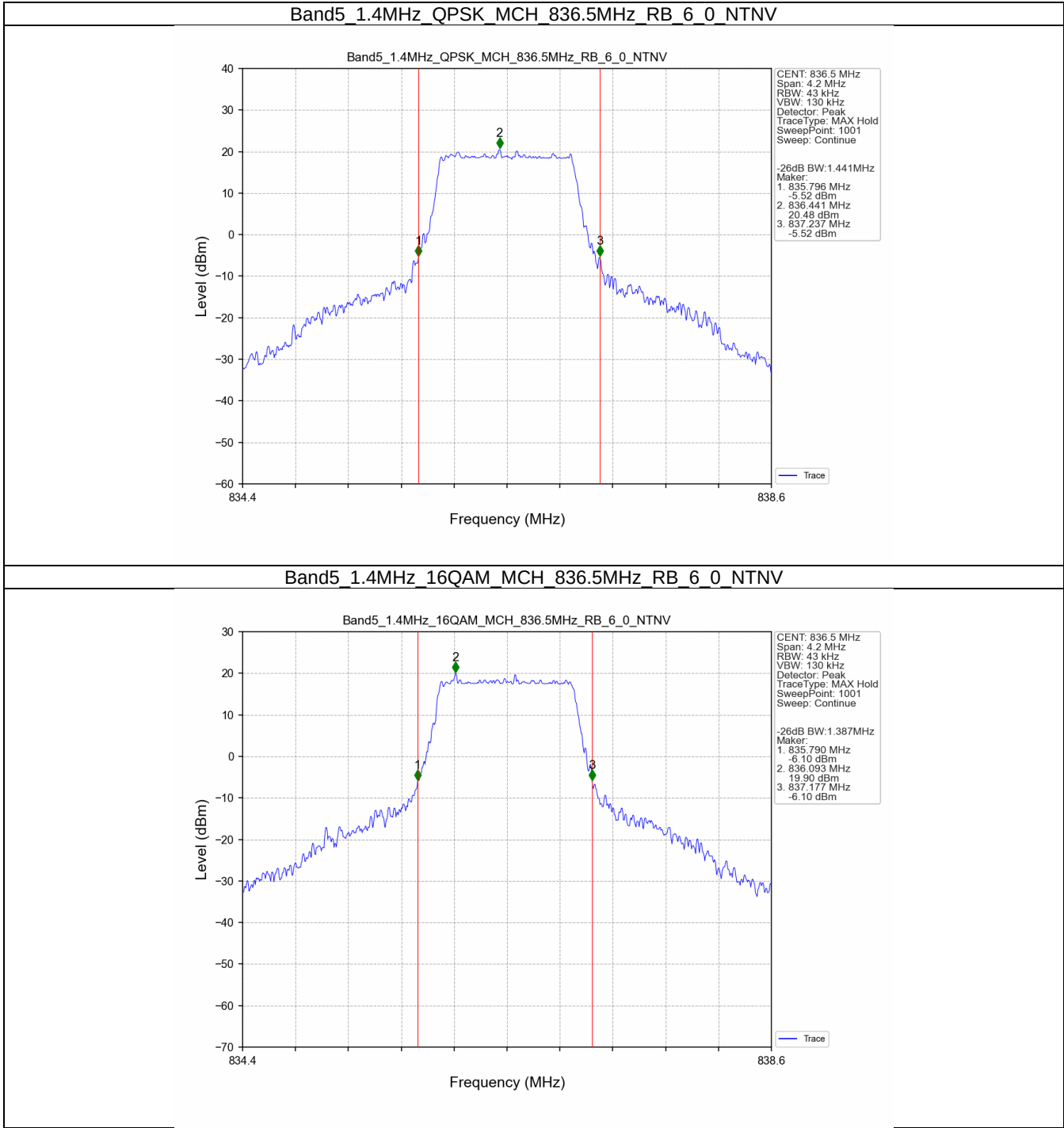
Band5 10MHz 64QAM MCH 836.5MHz RB 50 0 NTNV



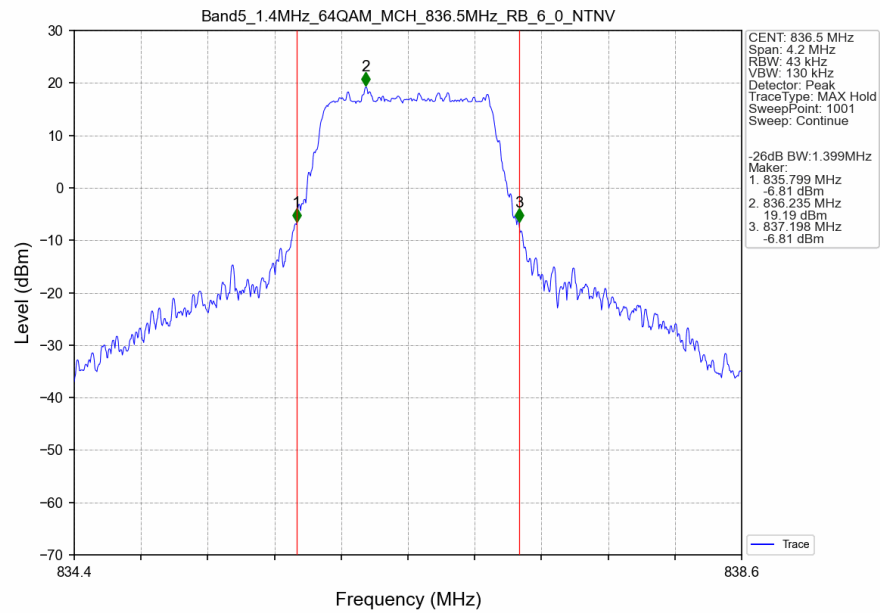
Band5 10MHz 256QAM MCH 836.5MHz RB 50 0 NTNV



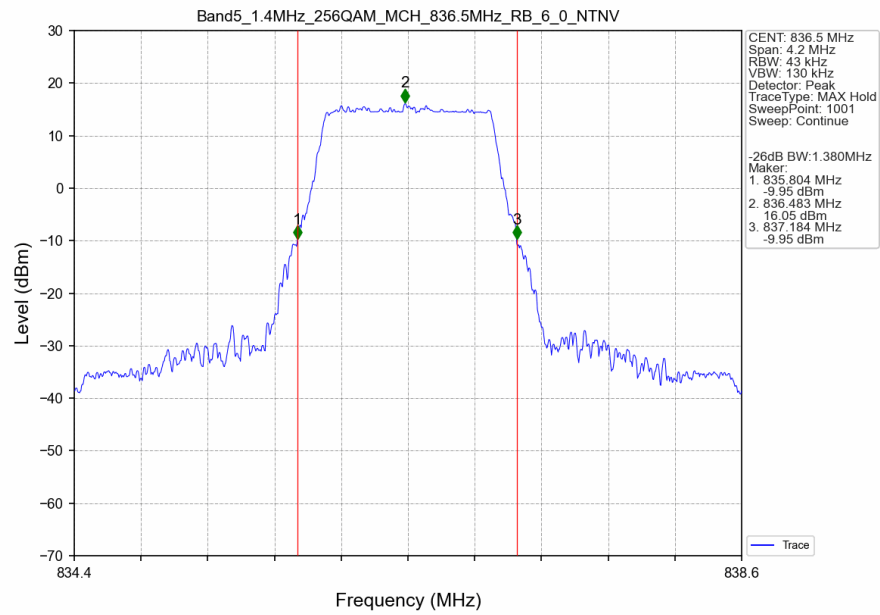
3.2.2 Band5_XDB



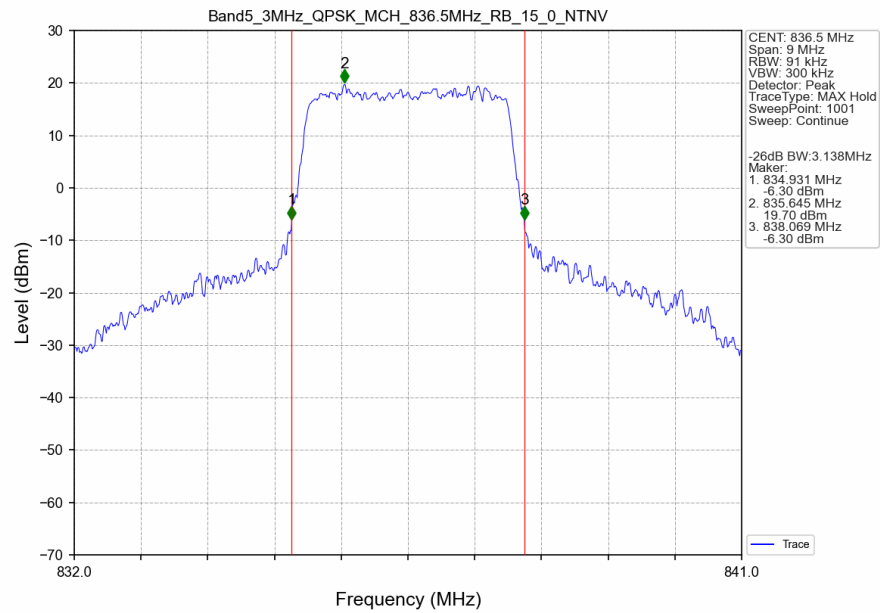
Band5 1.4MHz 64QAM MCH 836.5MHz RB 6 0 NTNV



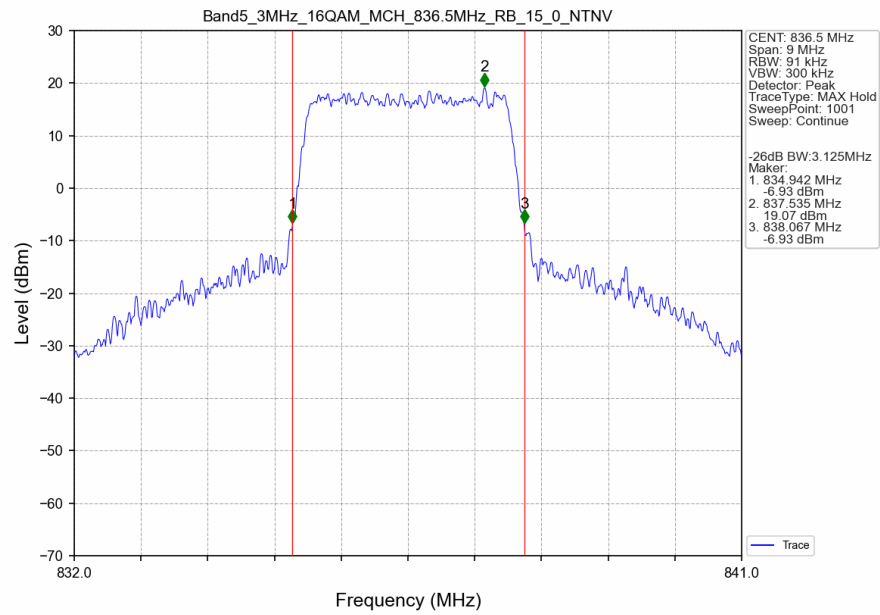
Band5 1.4MHz 256QAM MCH 836.5MHz RB 6 0 NTNV



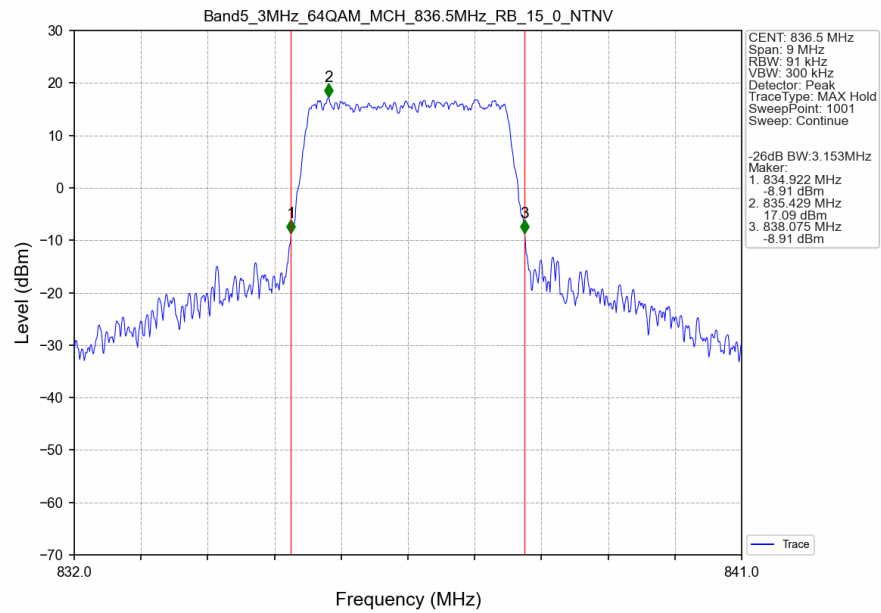
Band5 3MHz QPSK MCH 836.5MHz RB 15 0 NTN



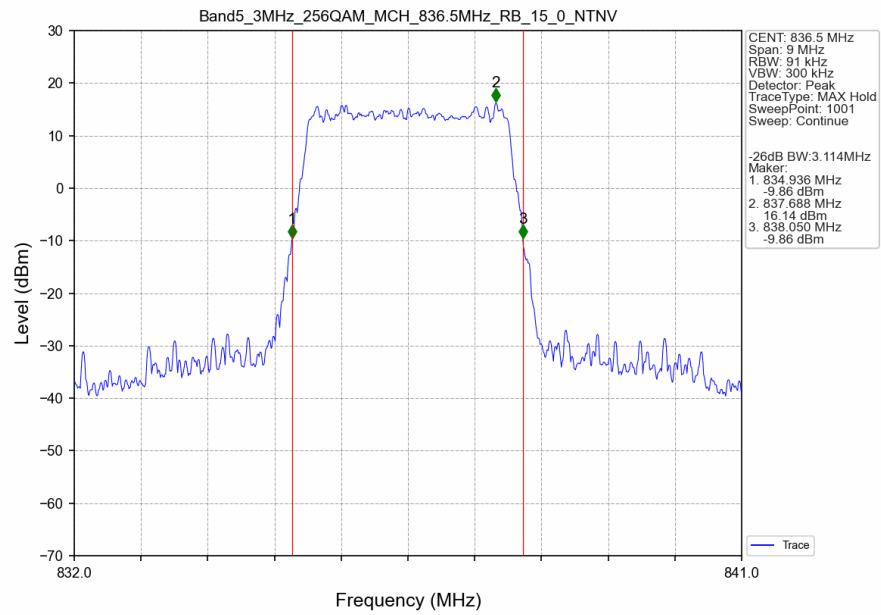
Band5 3MHz 16QAM MCH 836.5MHz RB 15 0 NTN



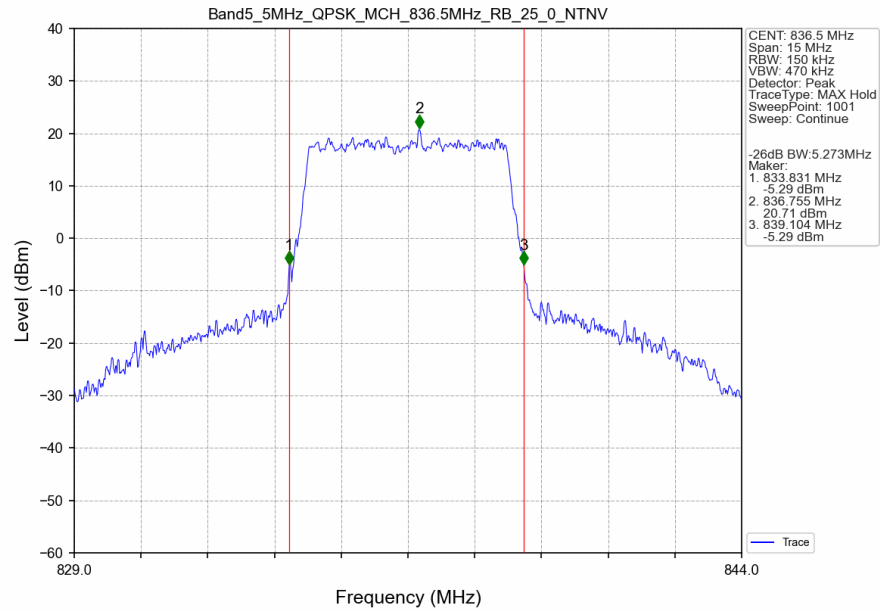
Band5 3MHz 64QAM MCH 836.5MHz RB 15 0 NTN



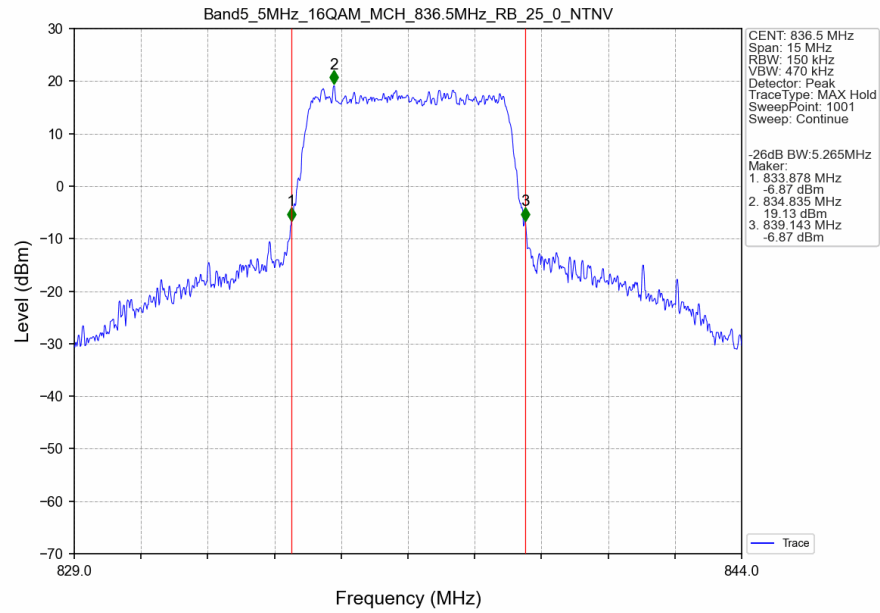
Band5 3MHz 256QAM MCH 836.5MHz RB 15 0 NTN



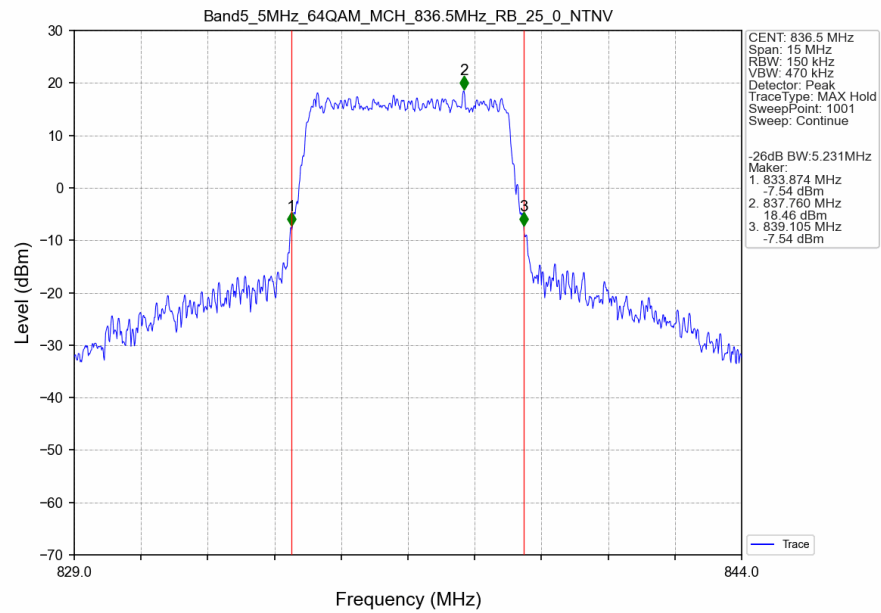
Band5 5MHz QPSK MCH 836.5MHz RB 25 0 NTN



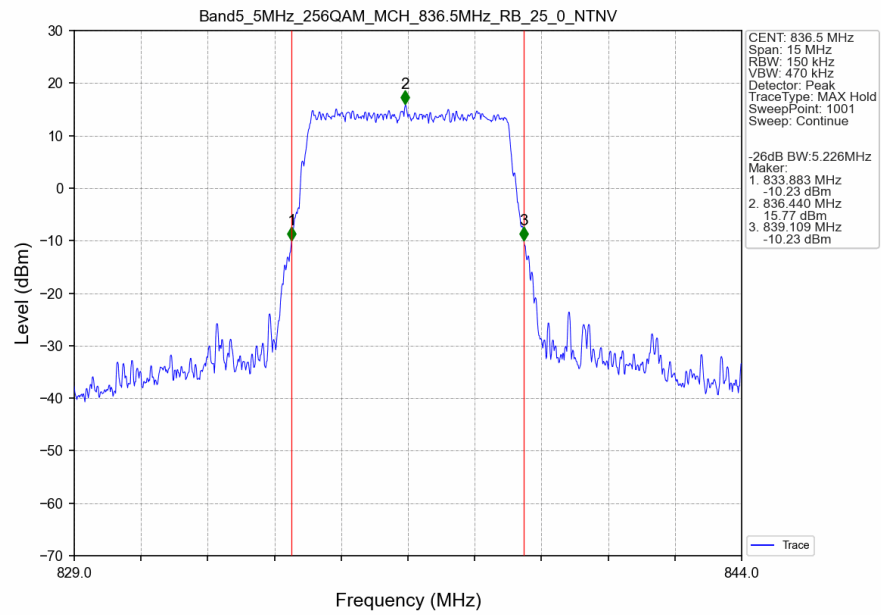
Band5 5MHz 16QAM MCH 836.5MHz RB 25 0 NTN



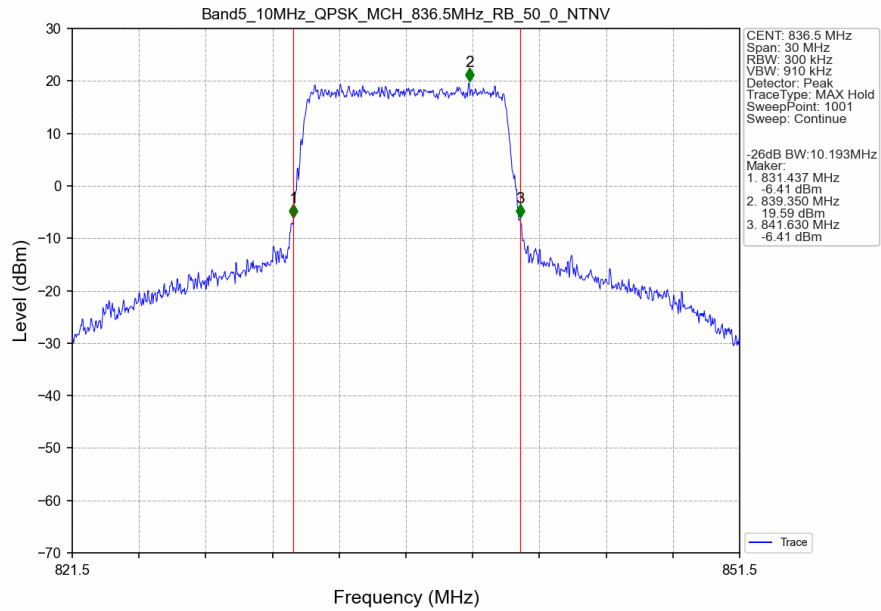
Band5 5MHz 64QAM MCH 836.5MHz RB 25 0 NTV



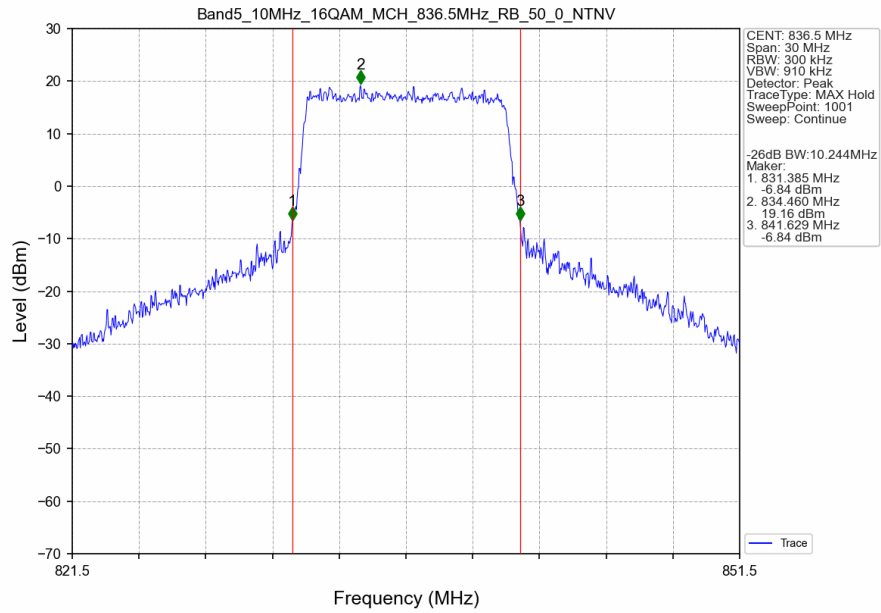
Band5 5MHz 256QAM MCH 836.5MHz RB 25 0 NTV



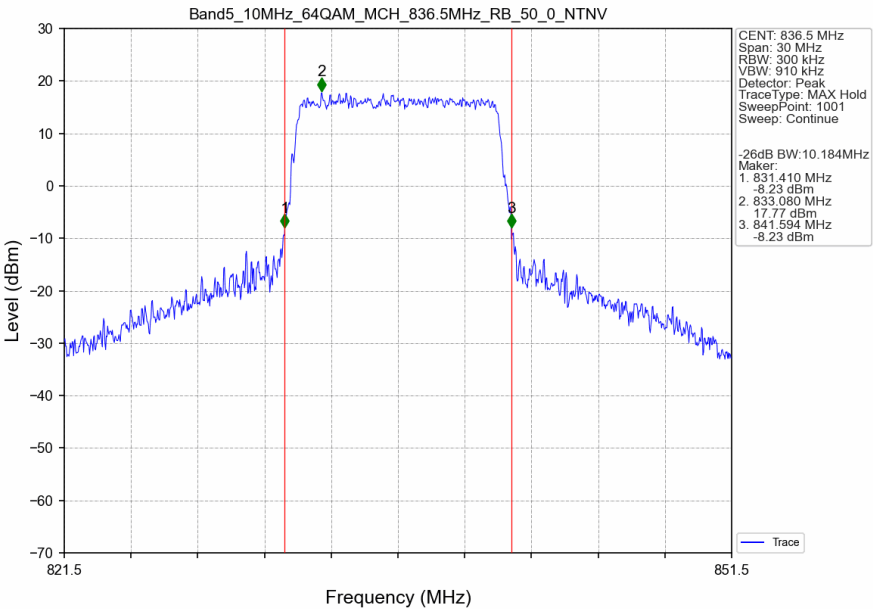
Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



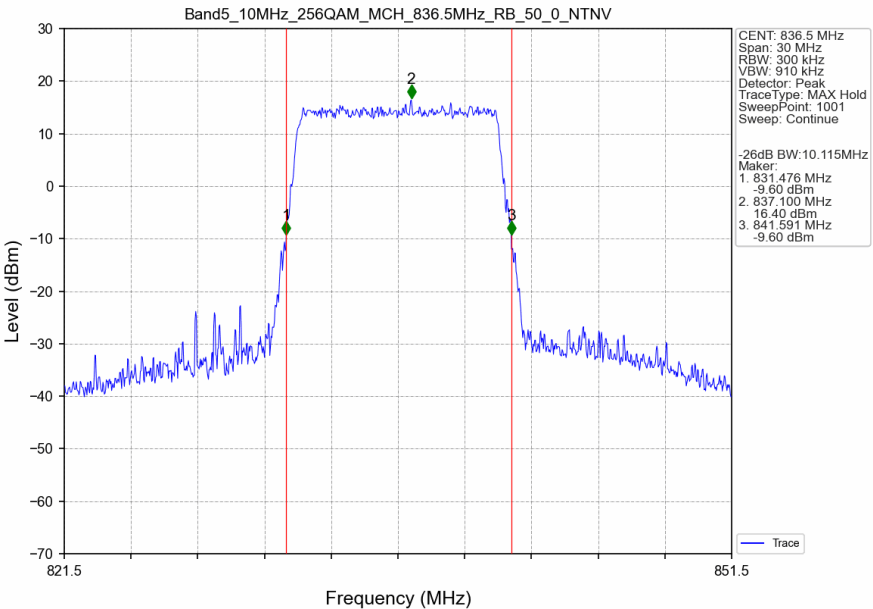
Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV



Band5 10MHz 64QAM MCH 836.5MHz RB 50 0 NTN



Band5 10MHz 256QAM MCH 836.5MHz RB 50 0 NTN



4. Peak-Average Ratio

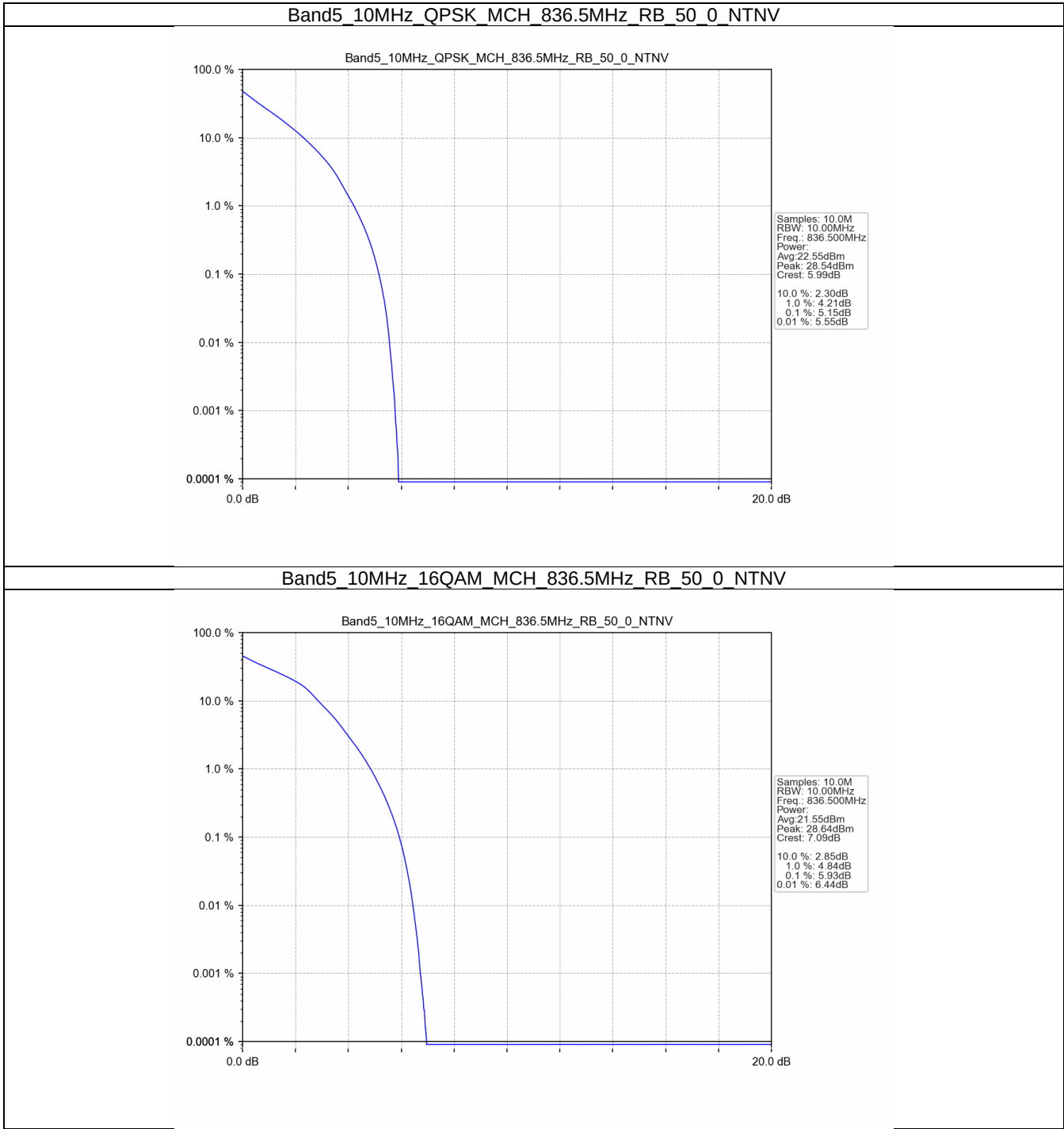
4.1 Test Result

4.1.1 B5_10MHz

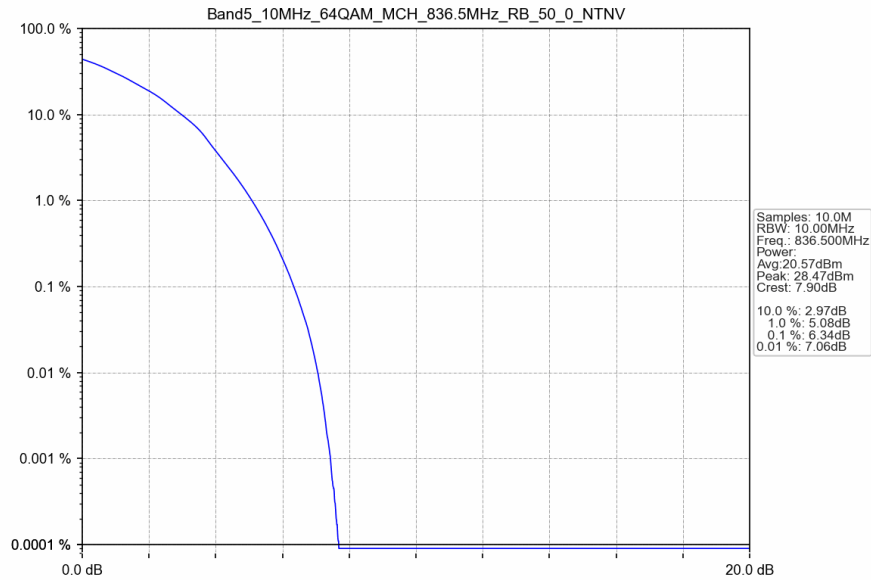
Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	50	0	5.15	<=13	Pass
16QAM	836.5	50	0	5.93	<=13	Pass
64QAM	836.5	50	0	6.34	<=13	Pass
256QAM	836.5	50	0	6.65	<=13	Pass

4.2 Test Graph

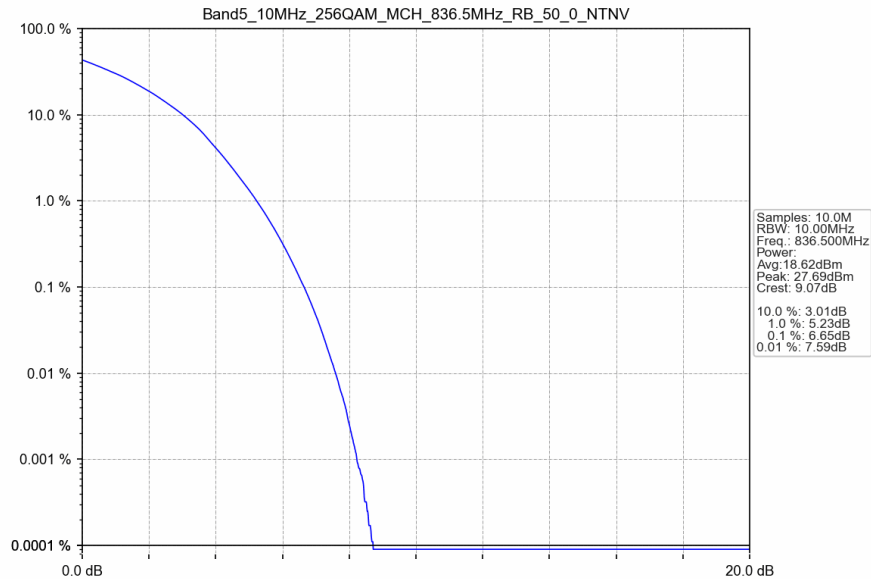
4.2.1 B5_10MHz



Band5 10MHz 64QAM MCH 836.5MHz RB 50 0 NTN



Band5 10MHz 256QAM MCH 836.5MHz RB 50 0 NTN



5. Spurious Emission

5.1 Test Result

5.1.1 B5_1.4MHz

Band: 5 / Bandwidth: 1.4MHz / NTV						
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

5.1.2 B5_3MHz

Band: 5 / Bandwidth: 3MHz / NTV						
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

5.1.3 B5_5MHz

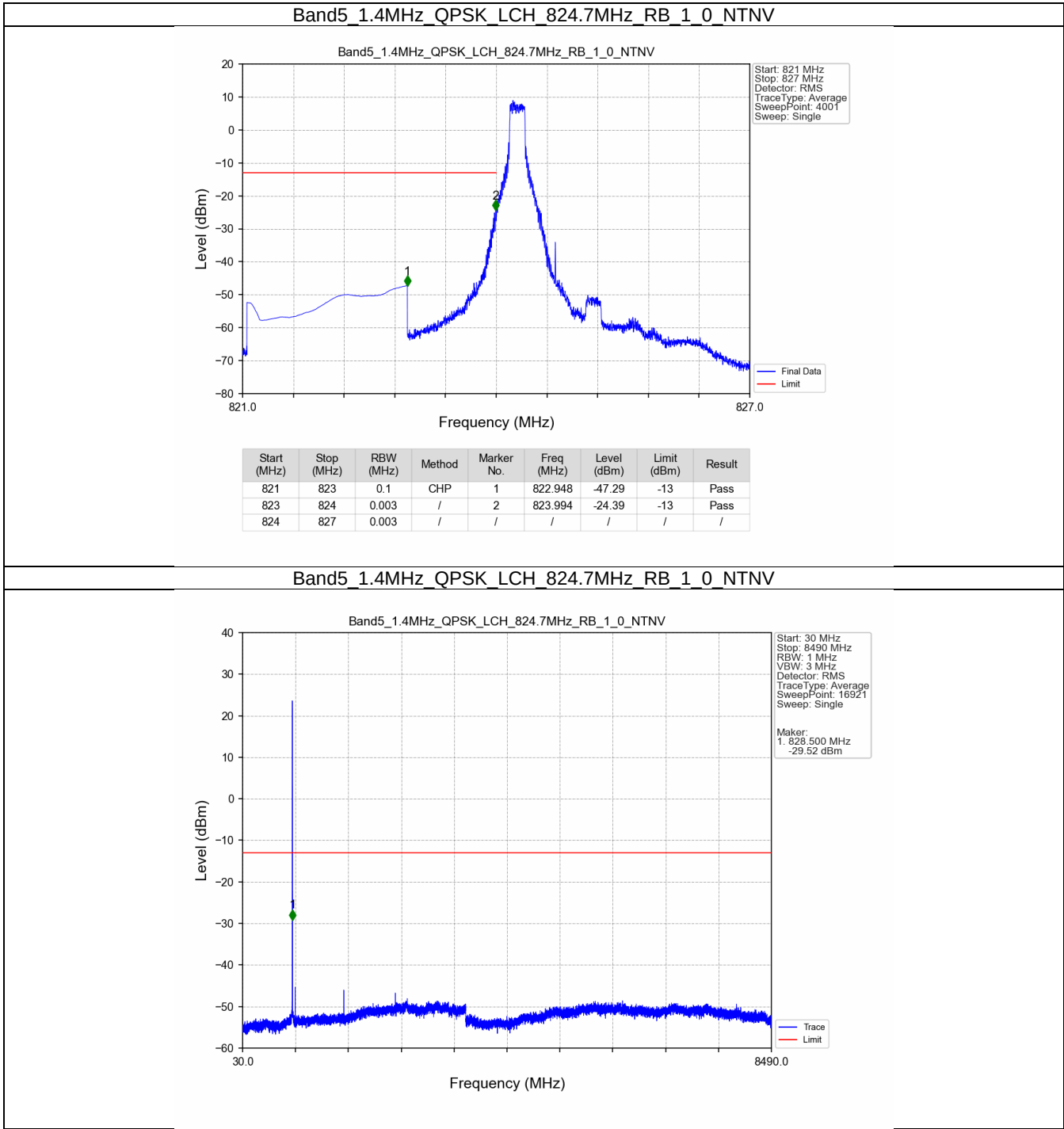
Band: 5 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	826.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	846.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test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

5.1.4 B5_10MHz

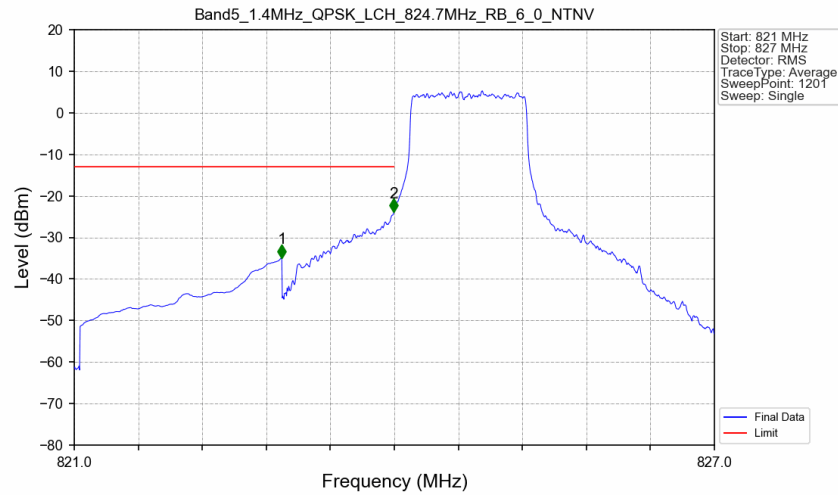
Band: 5 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	829	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	844	1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph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

5.2 Test Graph

5.2.1 B5_1.4MHz

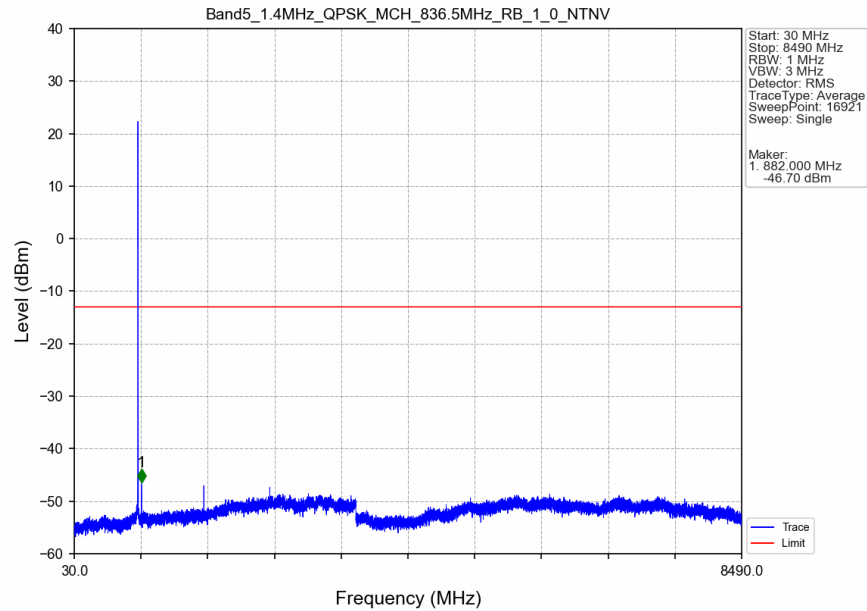


Band5 1.4MHz QPSK LCH 824.7MHz RB 6 0 NTNV

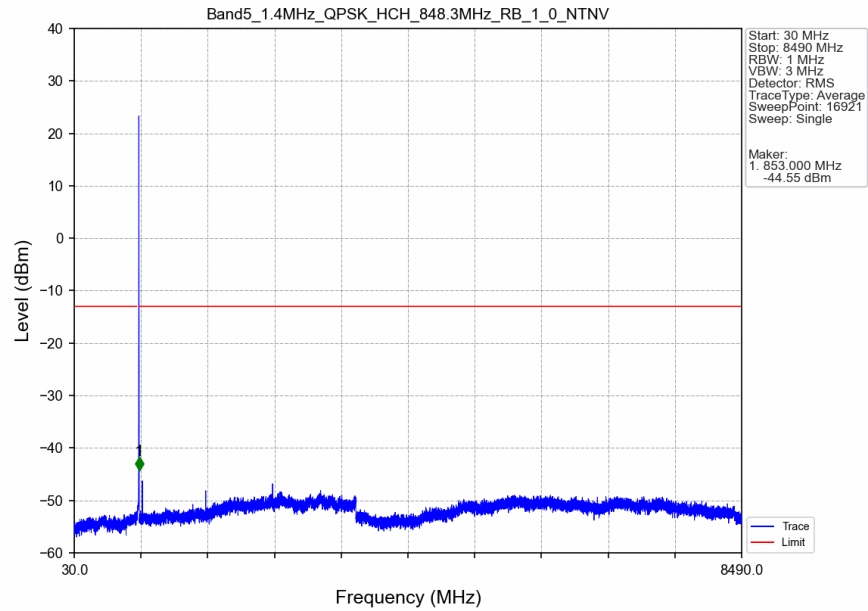


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.945	-34.86	-13	Pass
823	824	0.014	CHP	2	823.995	-23.90	-13	Pass
824	827	0.014	CHP	/	/	/	/	/

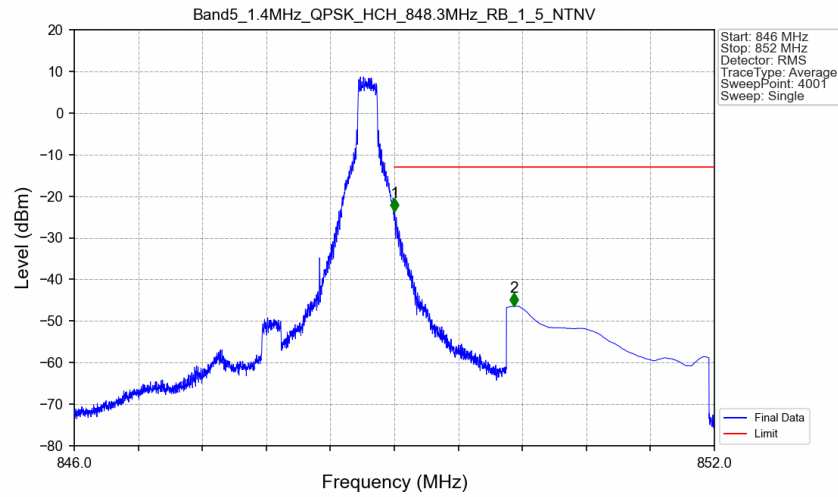
Band5 1.4MHz QPSK MCH 836.5MHz RB 1 0 NTNV



Band5 1.4MHz QPSK HCH 848.3MHz RB 1 0 NTN

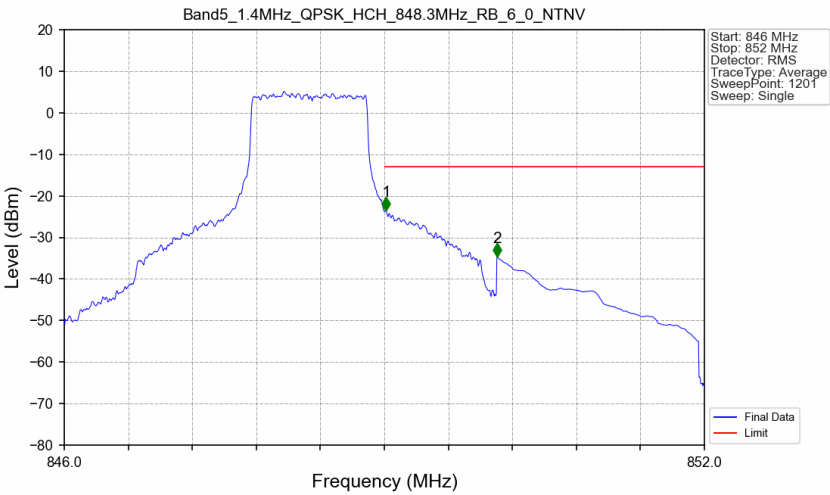


Band5 1.4MHz QPSK HCH 848.3MHz RB 1 5 NTN



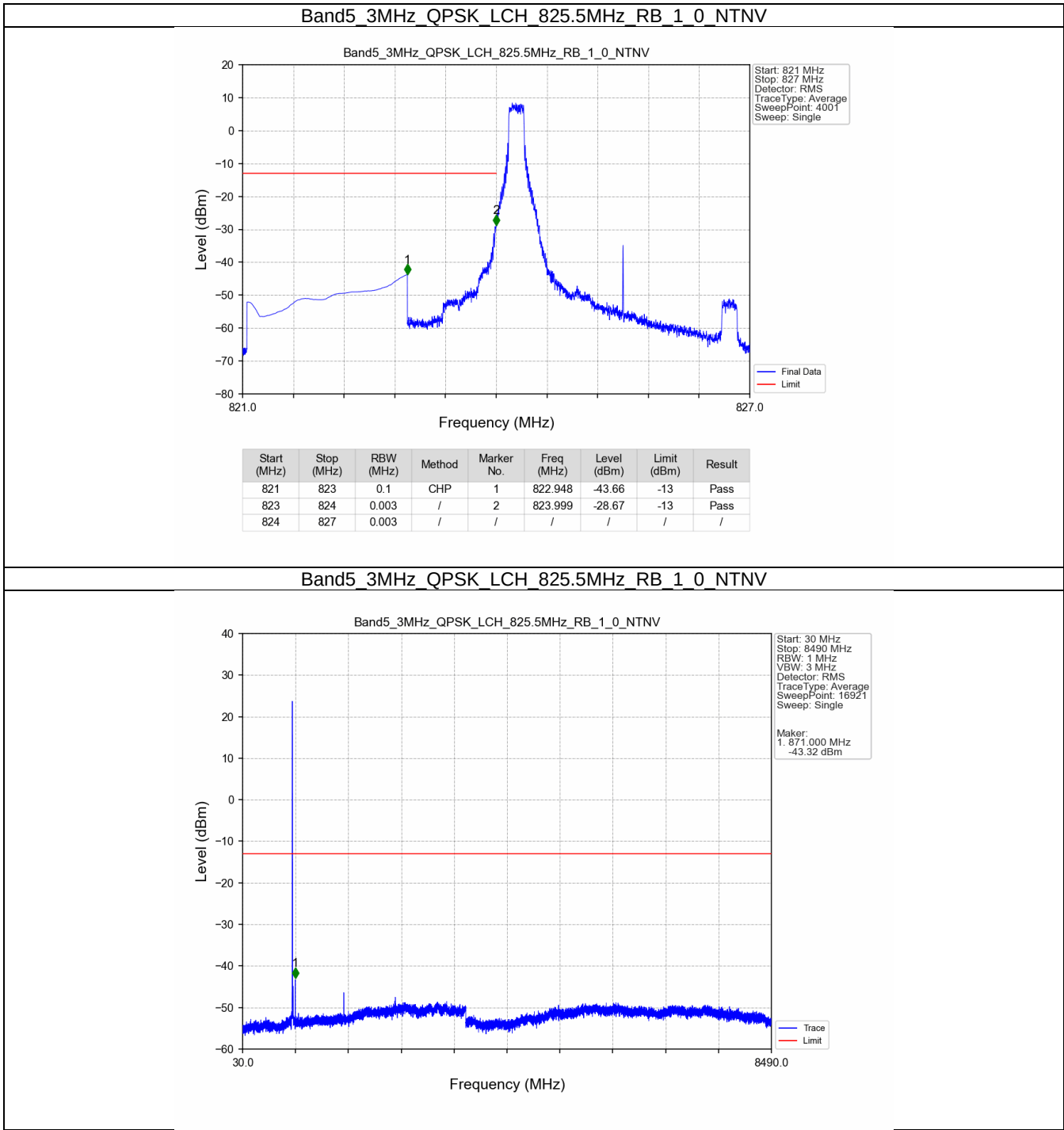
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.003	-23.67	-13	Pass
850	852	0.1	CHP	2	850.124	-46.41	-13	Pass

Band5 1.4MHz QPSK HCH 848.3MHz RB 6 0 NTN

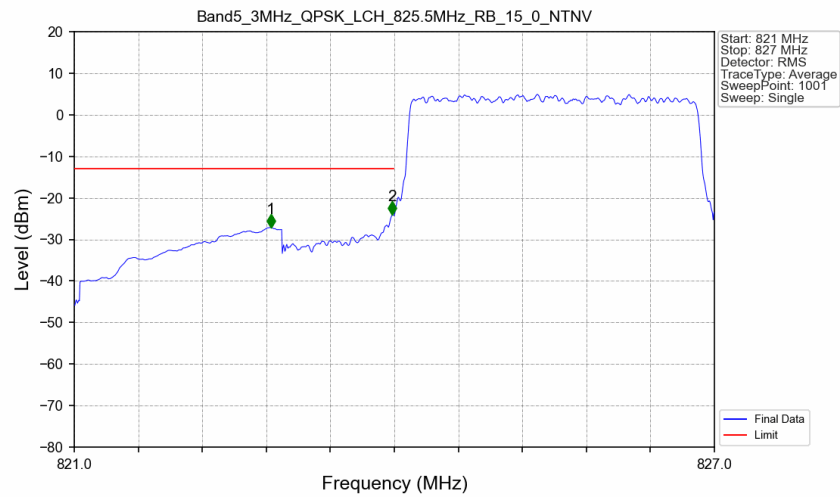


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.014	CHP	/	/	/	/	/
849	850	0.014	CHP	1	849.015	-23.52	-13	Pass
850	852	0.1	CHP	2	850.055	-34.59	-13	Pass

5.2.2 B5_3MHz

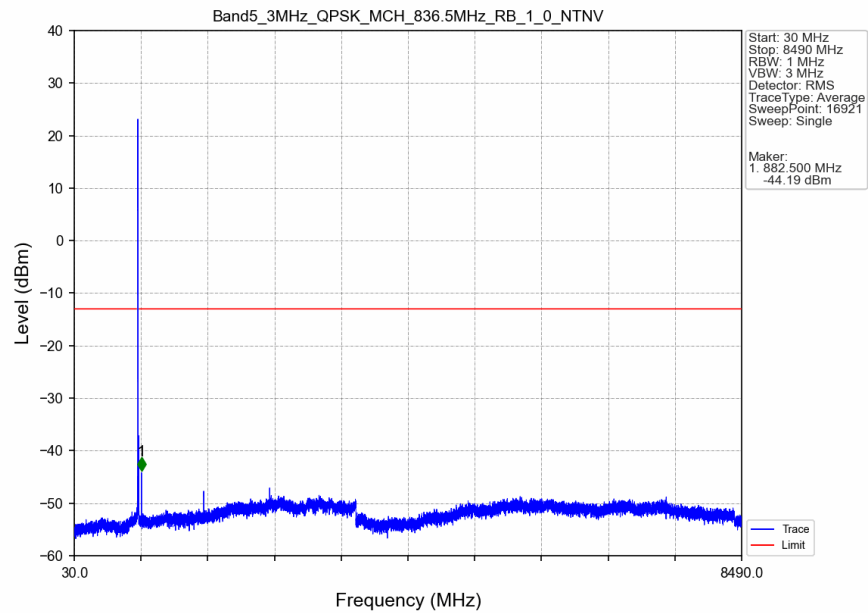


Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV

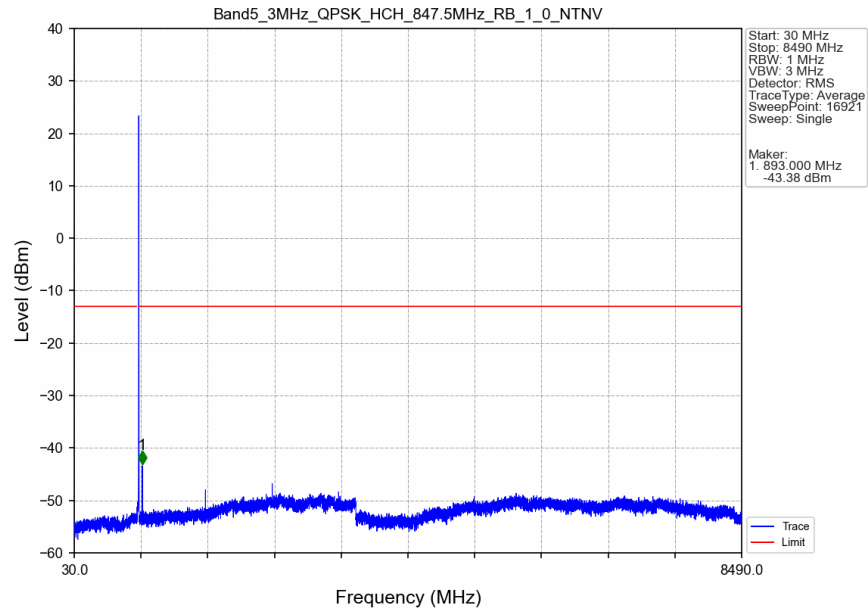


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.842	-27.11	-13	Pass
823	824	0.032	CHP	2	823.982	-24.09	-13	Pass
824	827	0.032	CHP	/	/	/	/	/

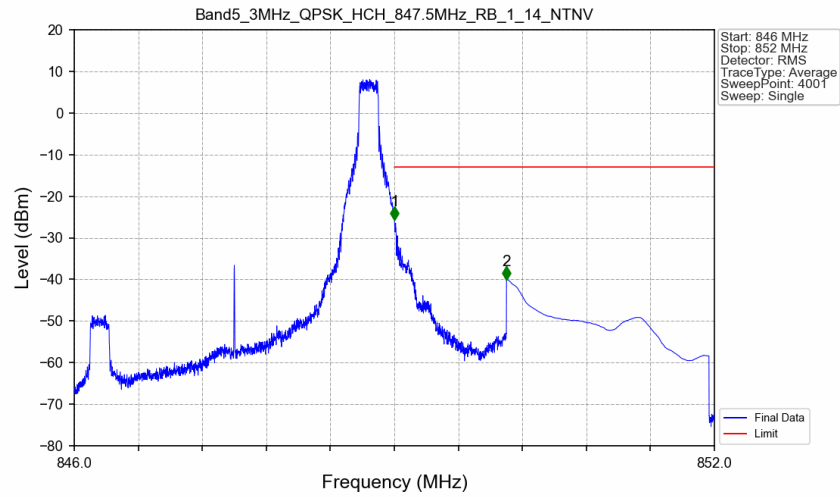
Band5_3MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



Band5 3MHz QPSK HCH 847.5MHz RB 1 0 NTN

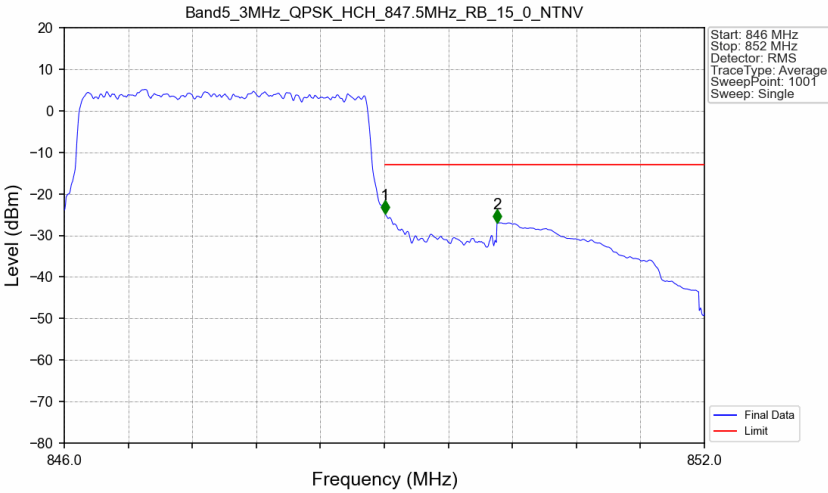


Band5 3MHz QPSK HCH 847.5MHz RB 1 14 NTN



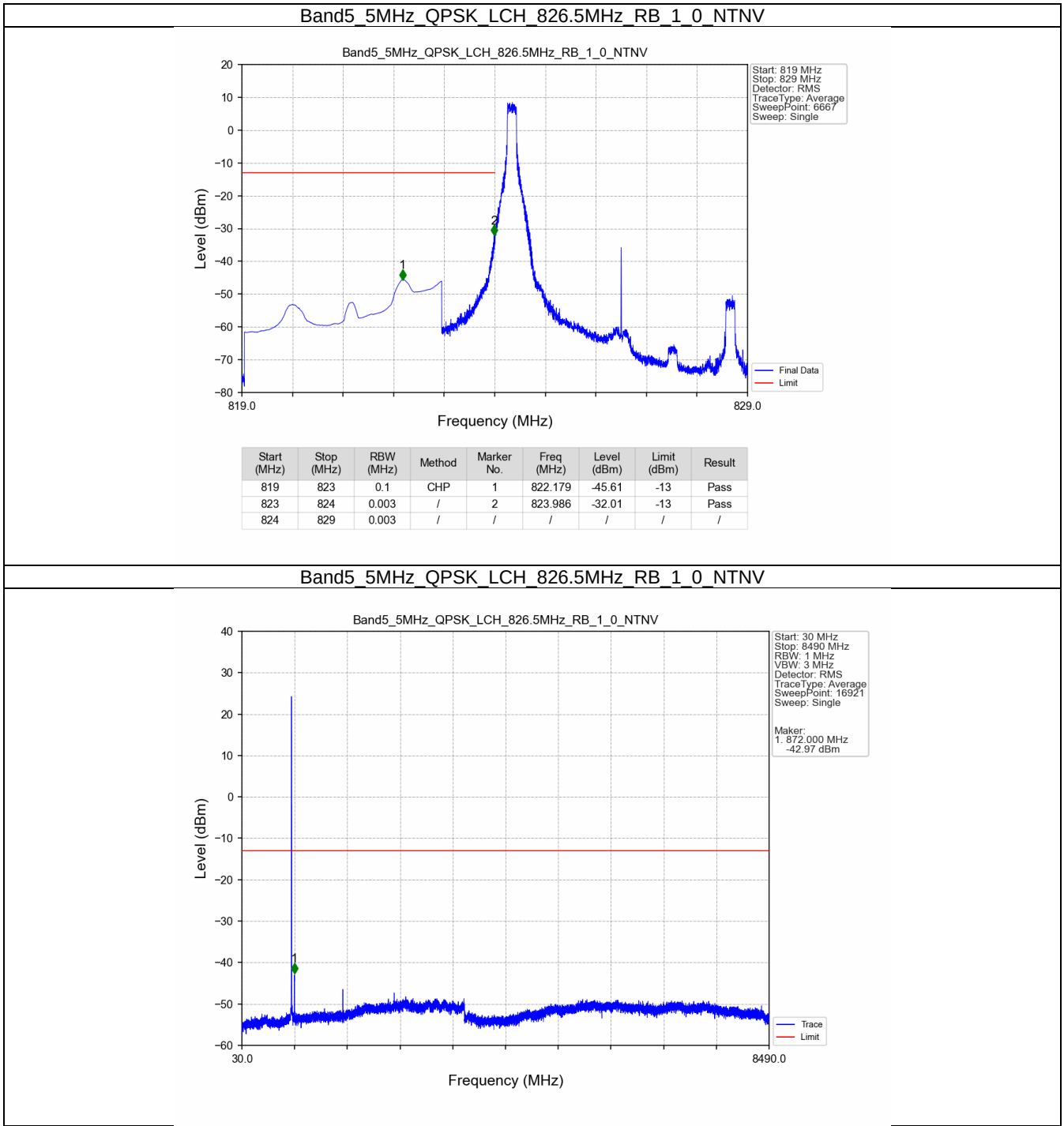
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.001	-25.58	-13	Pass
850	852	0.1	CHP	2	850.052	-40.06	-13	Pass

Band5 3MHz QPSK HCH 847.5MHz RB 15 0 NTN

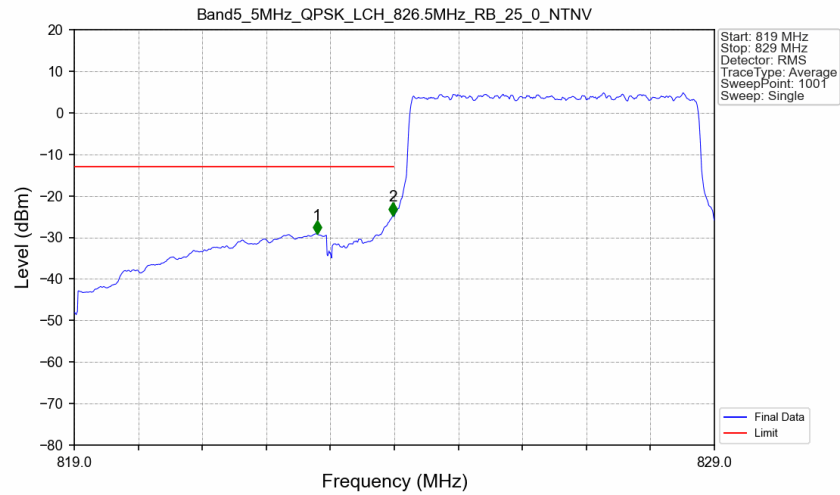


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.032	CHP	/	/	/	/	/
849	850	0.032	CHP	1	849.006	-24.69	-13	Pass
850	852	0.1	CHP	2	850.056	-26.96	-13	Pass

5.2.3 B5_5MHz

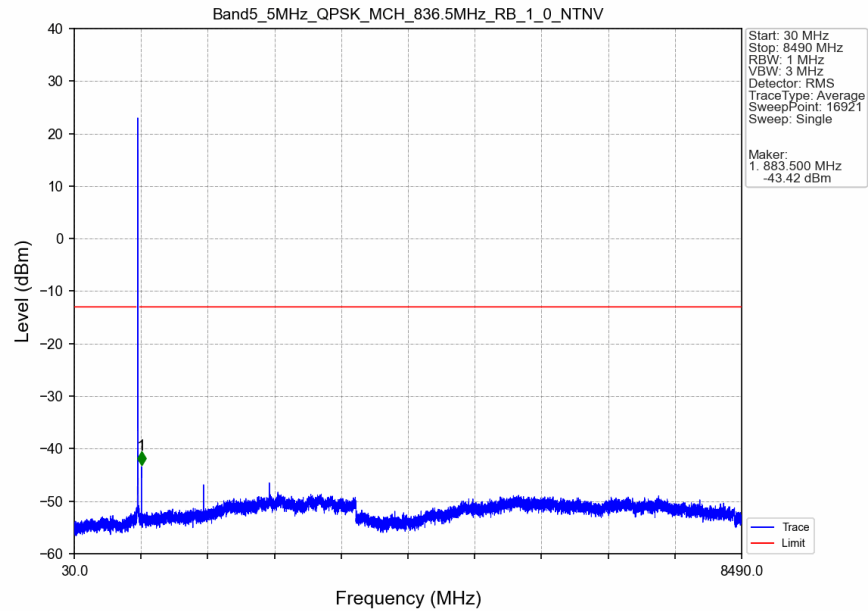


Band5 5MHz QPSK LCH 826.5MHz RB 25 0 NTN

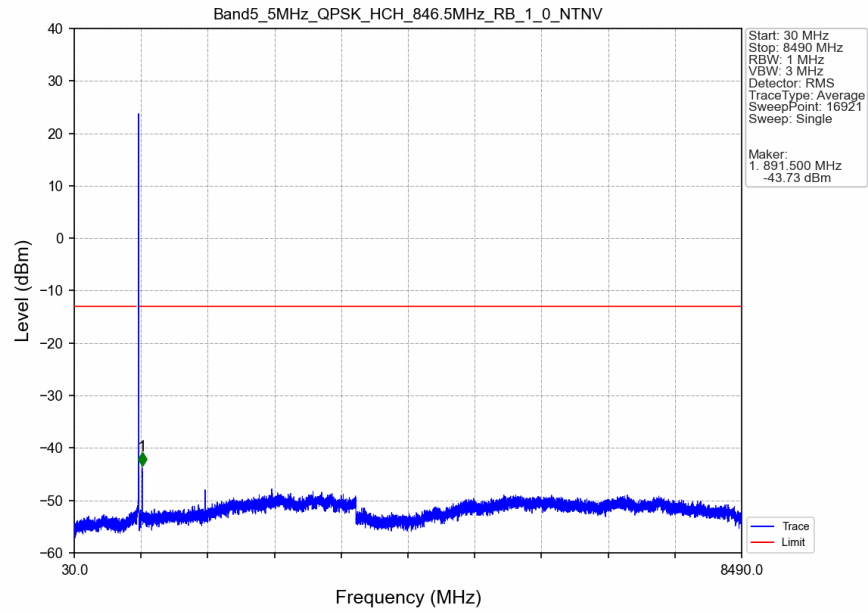


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.790	-29.14	-13	Pass
823	824	0.052	CHP	2	823.980	-24.66	-13	Pass
824	829	0.052	CHP	/	/	/	/	/

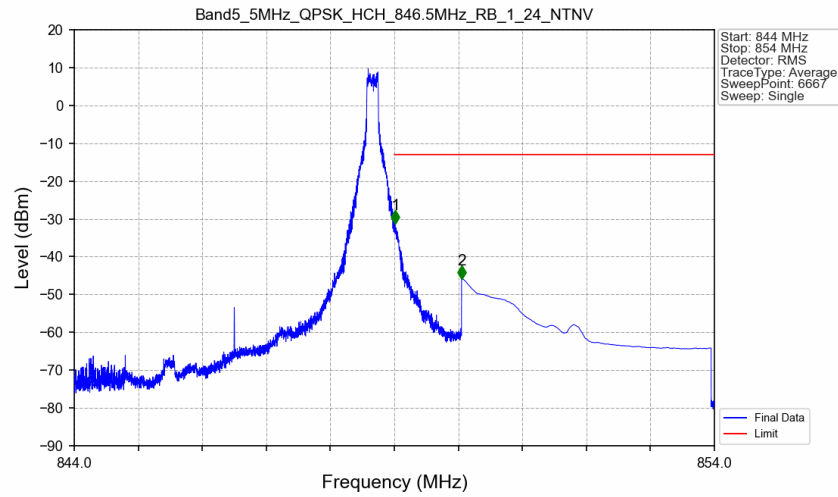
Band5 5MHz QPSK MCH 836.5MHz RB 1 0 NTN



Band5 5MHz QPSK HCH 846.5MHz RB 1 0 NTN

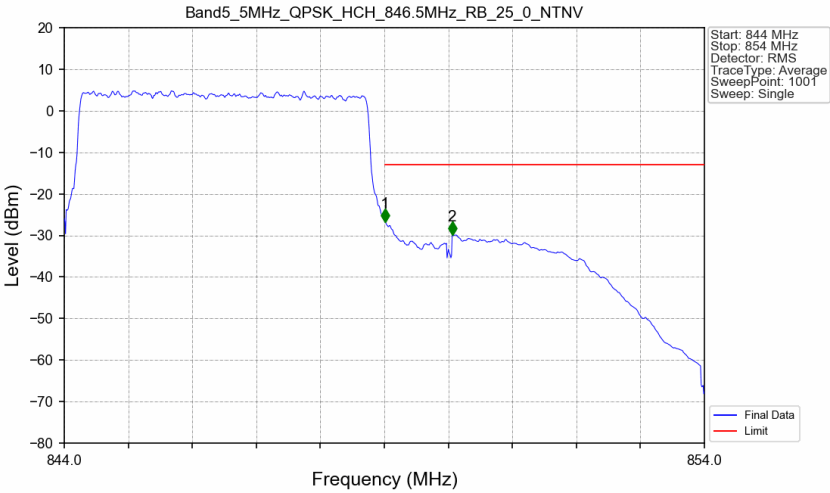


Band5_5MHz QPSK HCH 846.5MHz RB 1 24 NTN



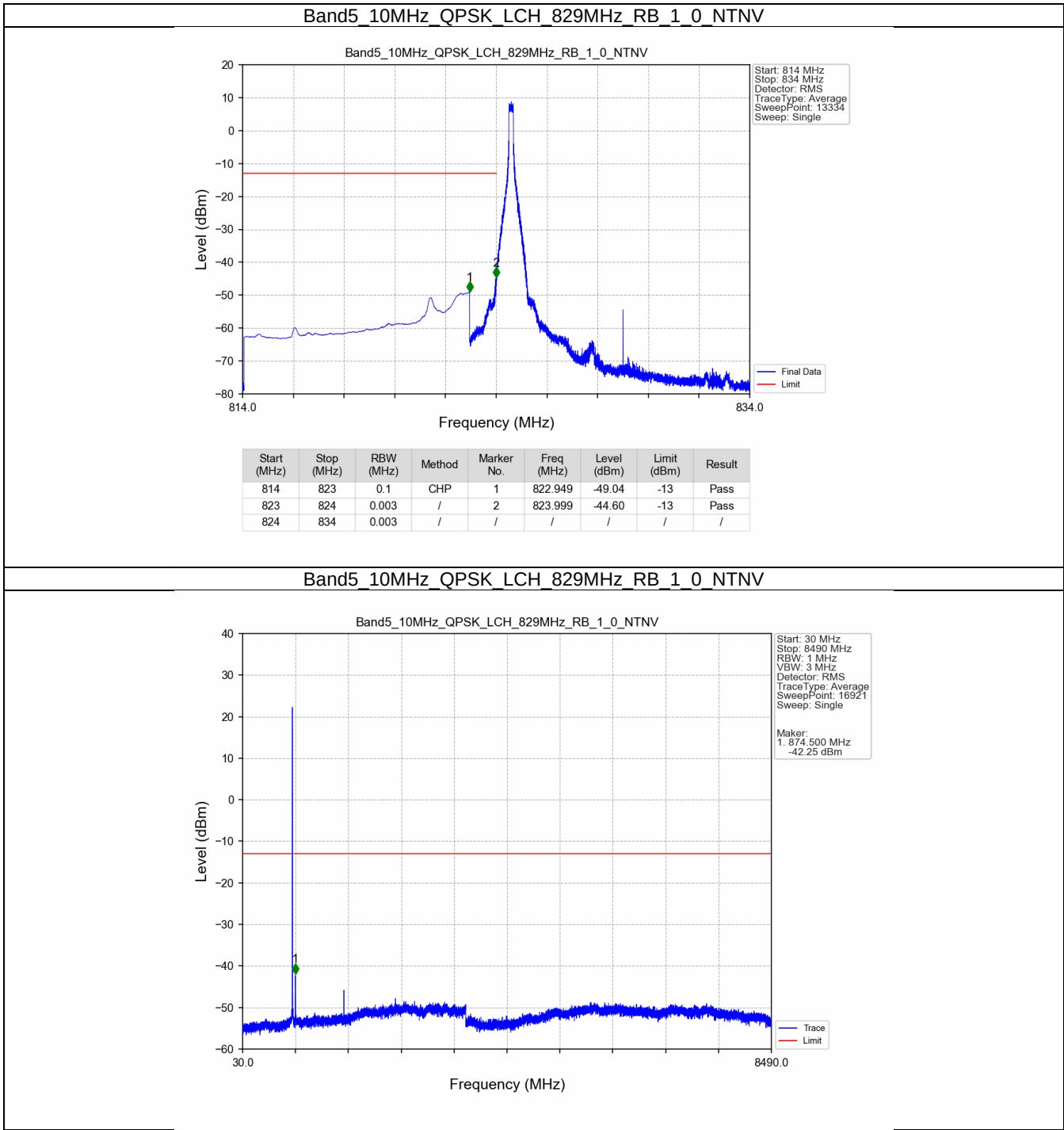
Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.014	-31.29	-13	Pass
850	854	0.1	CHP	2	850.056	-45.79	-13	Pass

Band5 5MHz QPSK HCH 846.5MHz RB 25 0 NTN

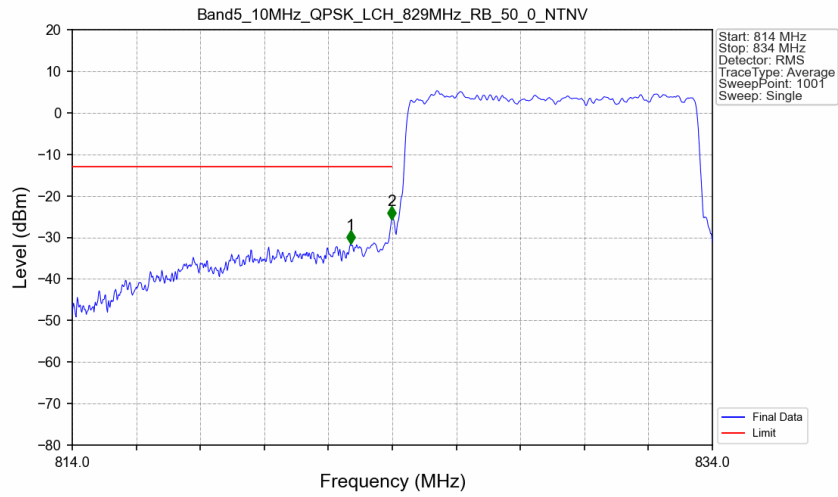


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.053	CHP	/	/	/	/	/
849	850	0.053	CHP	1	849.010	-26.72	-13	Pass
850	854	0.1	CHP	2	850.060	-29.86	-13	Pass

5.2.4 B5_10MHz

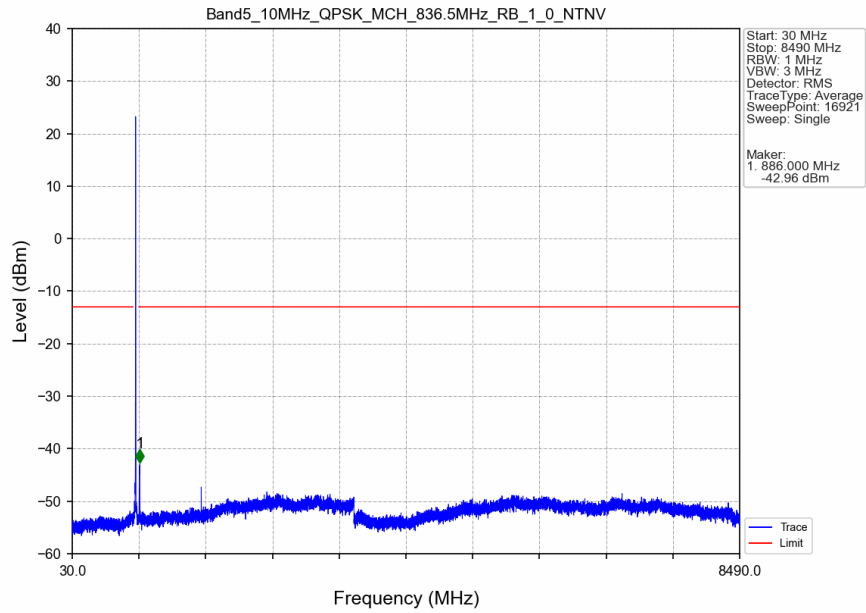


Band5 10MHz QPSK LCH 829MHz RB 50 0 NTN

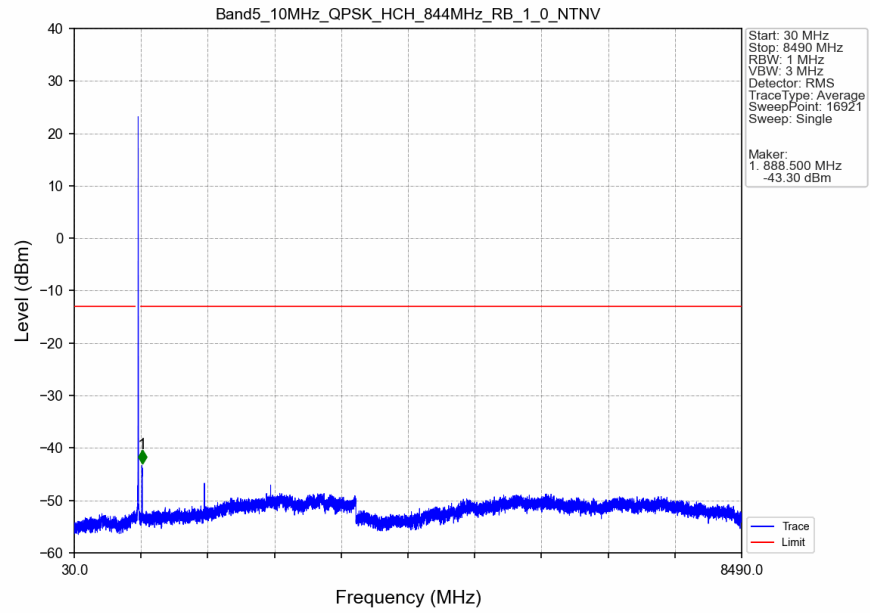


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	823	0.1	/	1	822.700	-31.57	-13	Pass
823	824	0.101	CHP	2	823.980	-25.69	-13	Pass
824	834	0.101	CHP	/	/	/	/	/

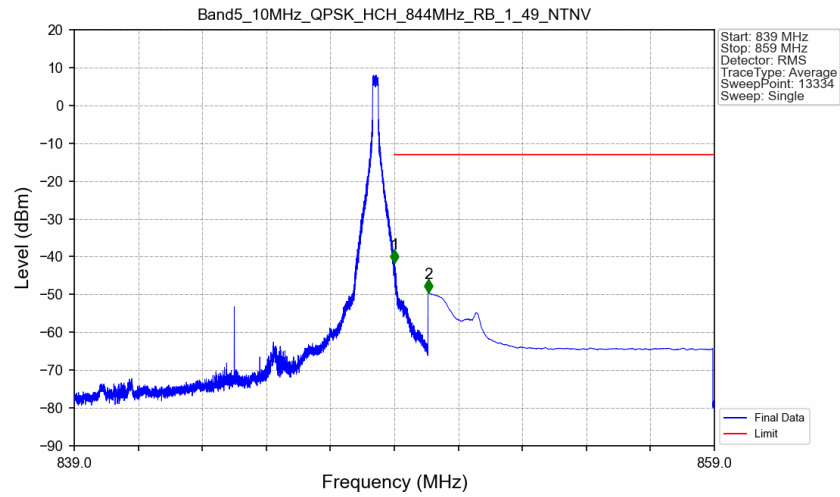
Band5 10MHz QPSK MCH 836.5MHz RB 1 0 NTN



Band5 10MHz QPSK HCH 844MHz RB 1 0 NTNV

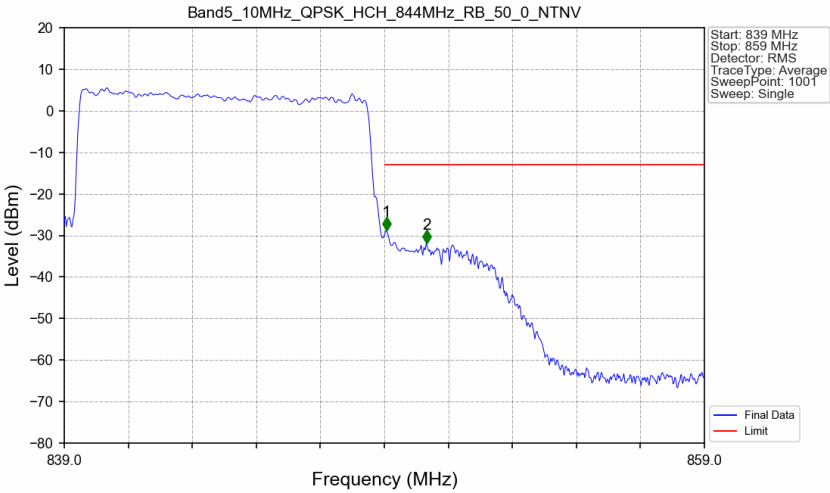


Band5 10MHz QPSK HCH 844MHz RB 1 49 NTNV



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	849.002	-41.74	-13	Pass
850	859	0.1	CHP	2	850.061	-49.44	-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	0.102	CHP	/	/	/	/	/
849	850	0.102	CHP	1	849.060	-28.84	-13	Pass
850	859	0.1	/	2	850.320	-31.88	-13	Pass