

1. Effective (Isotropic) Radiated Power Output Data

1.1 Test Result

1.1.1 B5_1.4MHz_ERP

Band: 5 / Bandwidth: 1.4MHz / NTV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	824.7	1	0	23.92	-0.56	21.21	<=38.45	Pass	
			2	23.96	-0.56	21.25	<=38.45	Pass	
			5	24.08	-0.56	21.37	<=38.45	Pass	
		3	0	23.95	-0.56	21.24	<=38.45	Pass	
			2	23.98	-0.56	21.27	<=38.45	Pass	
			3	23.94	-0.56	21.23	<=38.45	Pass	
		6	0	23.03	-0.56	20.32	<=38.45	Pass	
	836.5	1	0	23.19	-0.56	20.48	<=38.45	Pass	
			2	23.23	-0.56	20.52	<=38.45	Pass	
			5	23.14	-0.56	20.43	<=38.45	Pass	
		3	0	23.15	-0.56	20.44	<=38.45	Pass	
			2	23.13	-0.56	20.42	<=38.45	Pass	
			3	23.19	-0.56	20.48	<=38.45	Pass	
	848.3	6	0	22.18	-0.56	19.47	<=38.45	Pass	
			1	0	23.55	-0.56	20.84	<=38.45	Pass
				2	23.40	-0.56	20.69	<=38.45	Pass
		5		23.18	-0.56	20.47	<=38.45	Pass	
			3	0	23.40	-0.56	20.69	<=38.45	Pass
				2	23.32	-0.56	20.61	<=38.45	Pass
		3		23.24	-0.56	20.53	<=38.45	Pass	
	16QAM	824.7	6	0	22.41	-0.56	19.70	<=38.45	Pass
1				0	22.75	-0.56	20.04	<=38.45	Pass
				2	22.79	-0.56	20.08	<=38.45	Pass
			5	23.01	-0.56	20.30	<=38.45	Pass	
3				0	23.08	-0.56	20.37	<=38.45	Pass
				2	23.15	-0.56	20.44	<=38.45	Pass
			3	23.13	-0.56	20.42	<=38.45	Pass	
6		0	22.20	-0.56	19.49	<=38.45	Pass		
836.5		6	0	22.15	-0.56	19.44	<=38.45	Pass	
			1	0	22.16	-0.56	19.45	<=38.45	Pass
				2	22.18	-0.56	19.47	<=38.45	Pass
		3		0	22.10	-0.56	19.39	<=38.45	Pass
			2	22.10	-0.56	19.39	<=38.45	Pass	
			3	22.21	-0.56	19.50	<=38.45	Pass	
848.3		6	0	21.33	-0.56	18.62	<=38.45	Pass	
			1	0	22.65	-0.56	19.94	<=38.45	Pass
				2	22.55	-0.56	19.84	<=38.45	Pass
		5		22.40	-0.56	19.69	<=38.45	Pass	
			3	0	22.45	-0.56	19.74	<=38.45	Pass
				2	22.39	-0.56	19.68	<=38.45	Pass
		3		22.32	-0.56	19.61	<=38.45	Pass	
	6	0	21.59	-0.56	18.88	<=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	23.70	-0.56	20.99	<=38.45	Pass
			7	24.13	-0.56	21.42	<=38.45	Pass
			14	24.12	-0.56	21.41	<=38.45	Pass

		8	0	23.00	-0.56	20.29	<=38.45	Pass
			4	23.14	-0.56	20.43	<=38.45	Pass
			7	23.18	-0.56	20.47	<=38.45	Pass
		15	0	23.16	-0.56	20.45	<=38.45	Pass
			0	23.06	-0.56	20.35	<=38.45	Pass
			7	23.14	-0.56	20.43	<=38.45	Pass
		1	14	23.01	-0.56	20.30	<=38.45	Pass
			0	22.12	-0.56	19.41	<=38.45	Pass
			4	22.15	-0.56	19.44	<=38.45	Pass
	836.5	8	7	22.12	-0.56	19.41	<=38.45	Pass
			0	22.10	-0.56	19.39	<=38.45	Pass
			7	22.12	-0.56	19.41	<=38.45	Pass
		15	0	23.79	-0.56	21.08	<=38.45	Pass
			7	23.50	-0.56	20.79	<=38.45	Pass
			14	23.15	-0.56	20.44	<=38.45	Pass
		8	0	22.80	-0.56	20.09	<=38.45	Pass
			4	22.64	-0.56	19.93	<=38.45	Pass
			7	22.51	-0.56	19.80	<=38.45	Pass
	847.5	15	0	22.66	-0.56	19.95	<=38.45	Pass
			0	22.66	-0.56	19.95	<=38.45	Pass
			7	23.05	-0.56	20.34	<=38.45	Pass
		1	14	23.10	-0.56	20.39	<=38.45	Pass
			0	22.12	-0.56	19.41	<=38.45	Pass
			4	22.29	-0.56	19.58	<=38.45	Pass
		8	7	22.32	-0.56	19.61	<=38.45	Pass
			0	22.22	-0.56	19.51	<=38.45	Pass
			7	22.08	-0.56	19.37	<=38.45	Pass
16QAM	825.5	1	7	22.19	-0.56	19.48	<=38.45	Pass
			14	22.07	-0.56	19.36	<=38.45	Pass
			0	21.25	-0.56	18.54	<=38.45	Pass
		8	4	21.28	-0.56	18.57	<=38.45	Pass
			7	21.27	-0.56	18.56	<=38.45	Pass
			0	21.20	-0.56	18.49	<=38.45	Pass
		15	0	23.15	-0.56	20.44	<=38.45	Pass
			7	22.91	-0.56	20.20	<=38.45	Pass
			14	22.50	-0.56	19.79	<=38.45	Pass
	836.5	1	0	21.99	-0.56	19.28	<=38.45	Pass
			4	21.84	-0.56	19.13	<=38.45	Pass
			7	21.72	-0.56	19.01	<=38.45	Pass
		8	0	21.78	-0.56	19.07	<=38.45	Pass
			0	21.78	-0.56	19.07	<=38.45	Pass
			7	21.78	-0.56	19.07	<=38.45	Pass
		15	0	21.78	-0.56	19.07	<=38.45	Pass
			0	21.78	-0.56	19.07	<=38.45	Pass
			7	21.78	-0.56	19.07	<=38.45	Pass
	847.5	1	0	21.78	-0.56	19.07	<=38.45	Pass
			0	21.78	-0.56	19.07	<=38.45	Pass
			7	21.78	-0.56	19.07	<=38.45	Pass
		8	0	21.78	-0.56	19.07	<=38.45	Pass
			0	21.78	-0.56	19.07	<=38.45	Pass
			7	21.78	-0.56	19.07	<=38.45	Pass
		15	0	21.78	-0.56	19.07	<=38.45	Pass
			0	21.78	-0.56	19.07	<=38.45	Pass
			7	21.78	-0.56	19.07	<=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	24.07	-0.56	21.36	<=38.45	Pass
			13	24.47	-0.56	21.76	<=38.45	Pass
			24	24.43	-0.56	21.72	<=38.45	Pass
		12	0	23.37	-0.56	20.66	<=38.45	Pass
			6	23.47	-0.56	20.76	<=38.45	Pass
			13	23.58	-0.56	20.87	<=38.45	Pass
		25	0	23.42	-0.56	20.71	<=38.45	Pass
			0	23.39	-0.56	20.68	<=38.45	Pass
			13	23.27	-0.56	20.56	<=38.45	Pass
	836.5	1	24	23.32	-0.56	20.61	<=38.45	Pass
			0	22.26	-0.56	19.55	<=38.45	Pass
			6	22.23	-0.56	19.52	<=38.45	Pass
		12	13	22.29	-0.56	19.58	<=38.45	Pass
			0	22.28	-0.56	19.57	<=38.45	Pass
			0	24.15	-0.56	21.44	<=38.45	Pass
		25	13	23.70	-0.56	20.99	<=38.45	Pass
			0	24.15	-0.56	21.44	<=38.45	Pass
			13	23.70	-0.56	20.99	<=38.45	Pass

16QAM		12	24	23.18	-0.56	20.47	<=38.45	Pass
			0	23.10	-0.56	20.39	<=38.45	Pass
			6	22.91	-0.56	20.20	<=38.45	Pass
			13	22.65	-0.56	19.94	<=38.45	Pass
	25	1	0	22.86	-0.56	20.15	<=38.45	Pass
			0	23.29	-0.56	20.58	<=38.45	Pass
			13	23.67	-0.56	20.96	<=38.45	Pass
			24	23.81	-0.56	21.10	<=38.45	Pass
	826.5	12	0	22.48	-0.56	19.77	<=38.45	Pass
			6	22.60	-0.56	19.89	<=38.45	Pass
			13	22.74	-0.56	20.03	<=38.45	Pass
			0	22.62	-0.56	19.91	<=38.45	Pass
	836.5	1	0	22.46	-0.56	19.75	<=38.45	Pass
			13	22.39	-0.56	19.68	<=38.45	Pass
			24	22.45	-0.56	19.74	<=38.45	Pass
			0	21.41	-0.56	18.70	<=38.45	Pass
	846.5	12	6	21.39	-0.56	18.68	<=38.45	Pass
			13	21.45	-0.56	18.74	<=38.45	Pass
			0	21.45	-0.56	18.74	<=38.45	Pass
			0	23.42	-0.56	20.71	<=38.45	Pass
		1	13	23.03	-0.56	20.32	<=38.45	Pass
			24	22.53	-0.56	19.82	<=38.45	Pass
			0	22.14	-0.56	19.43	<=38.45	Pass
			6	21.98	-0.56	19.27	<=38.45	Pass
		12	13	21.72	-0.56	19.01	<=38.45	Pass
			0	21.98	-0.56	19.27	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

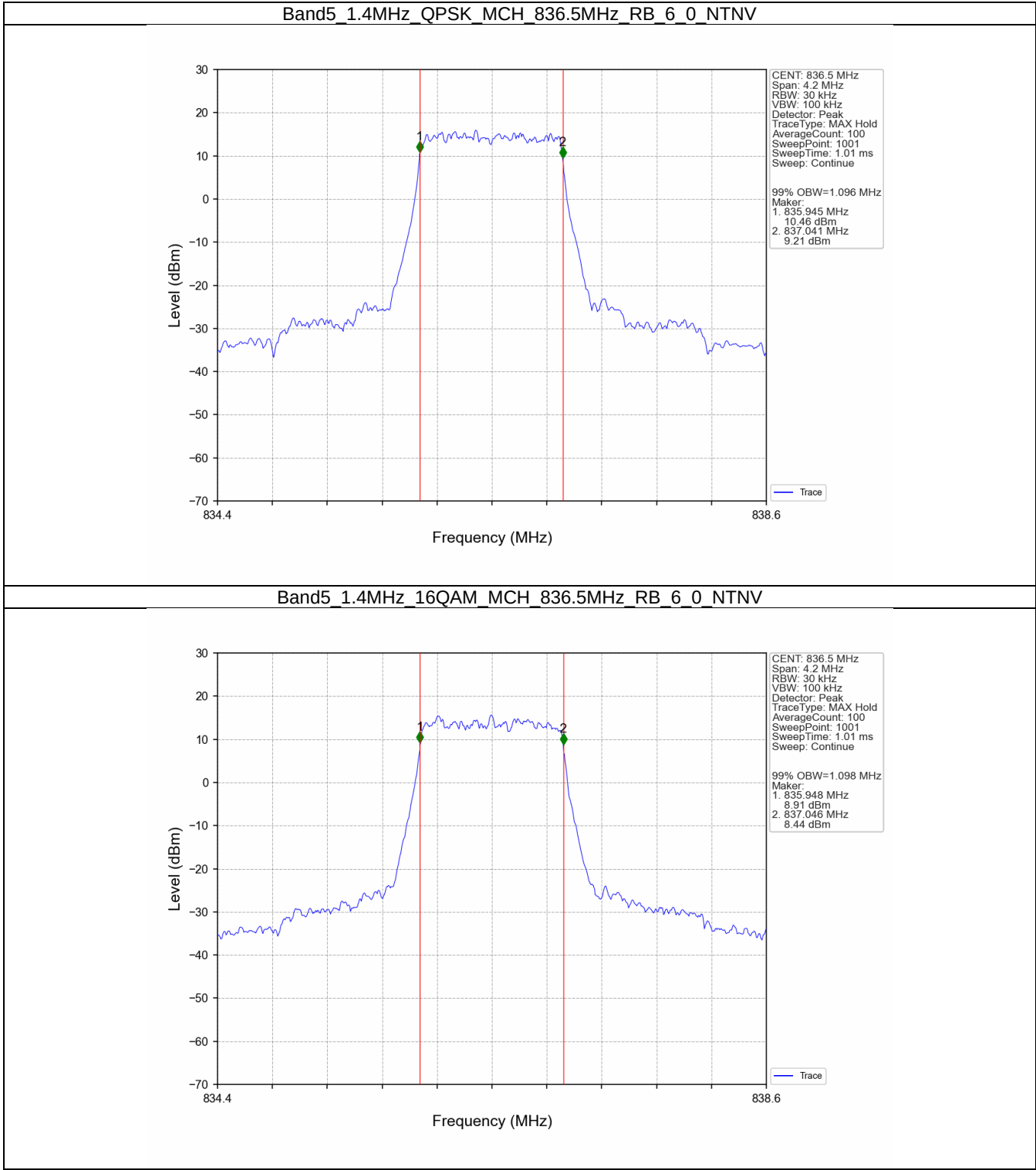
1.1.4 B5_10MHz_ERP

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	23.92	-0.56	21.21	<=38.45	Pass
			25	24.35	-0.56	21.64	<=38.45	Pass
			49	23.80	-0.56	21.09	<=38.45	Pass
		25	0	23.39	-0.56	20.68	<=38.45	Pass
			13	23.30	-0.56	20.59	<=38.45	Pass
			25	23.04	-0.56	20.33	<=38.45	Pass
	836.5	50	0	23.20	-0.56	20.49	<=38.45	Pass
		1	0	23.71	-0.56	21.00	<=38.45	Pass
			25	23.26	-0.56	20.55	<=38.45	Pass
			49	23.66	-0.56	20.95	<=38.45	Pass
		25	0	22.48	-0.56	19.77	<=38.45	Pass
			13	22.37	-0.56	19.66	<=38.45	Pass
			25	22.48	-0.56	19.77	<=38.45	Pass
		50	0	22.49	-0.56	19.78	<=38.45	Pass
	844	1	0	23.79	-0.56	21.08	<=38.45	Pass
			25	24.26	-0.56	21.55	<=38.45	Pass
			49	23.46	-0.56	20.75	<=38.45	Pass
		25	0	23.06	-0.56	20.35	<=38.45	Pass
			13	23.22	-0.56	20.51	<=38.45	Pass
			25	22.96	-0.56	20.25	<=38.45	Pass
		50	0	23.10	-0.56	20.39	<=38.45	Pass
16QAM	829	1	0	22.90	-0.56	20.19	<=38.45	Pass
			25	23.18	-0.56	20.47	<=38.45	Pass
			49	22.54	-0.56	19.83	<=38.45	Pass
		12	0	23.23	-0.56	20.52	<=38.45	Pass
			19	23.35	-0.56	20.64	<=38.45	Pass
			38	22.84	-0.56	20.13	<=38.45	Pass
	836.5	27	0	22.46	-0.56	19.75	<=38.45	Pass
		1	0	22.80	-0.56	20.09	<=38.45	Pass

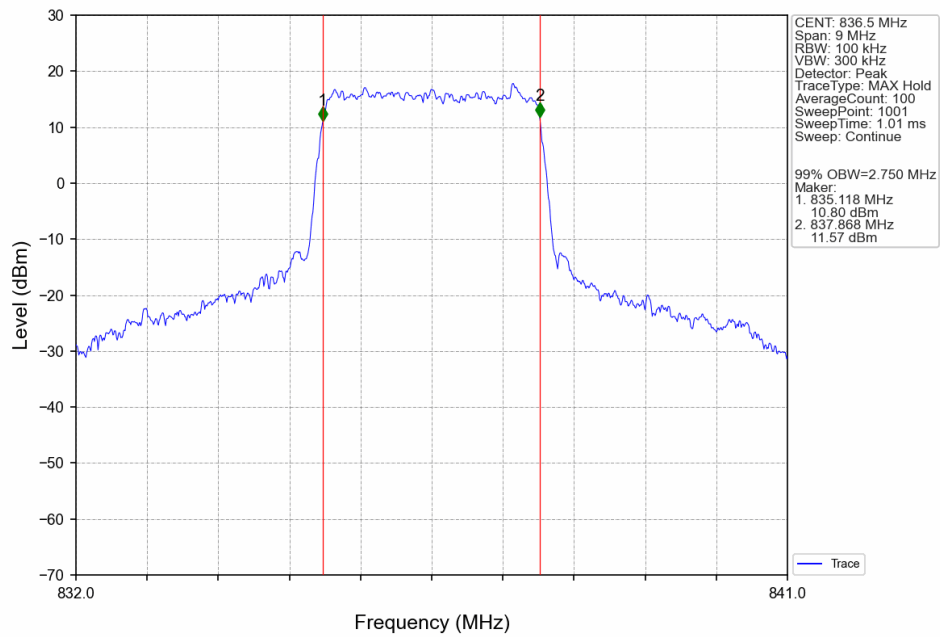
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	836.5	6	0	1.300	/	Pass
	16QAM	836.5	6	0	1.302	/	Pass
3	QPSK	836.5	15	0	3.044	/	Pass
	16QAM	836.5	15	0	3.064	/	Pass
5	QPSK	836.5	25	0	5.017	/	Pass
	16QAM	836.5	25	0	5.002	/	Pass
10	QPSK	836.5	50	0	10.111	/	Pass
	16QAM	836.5	27	0	6.210	/	Pass

3.2 Test Graph

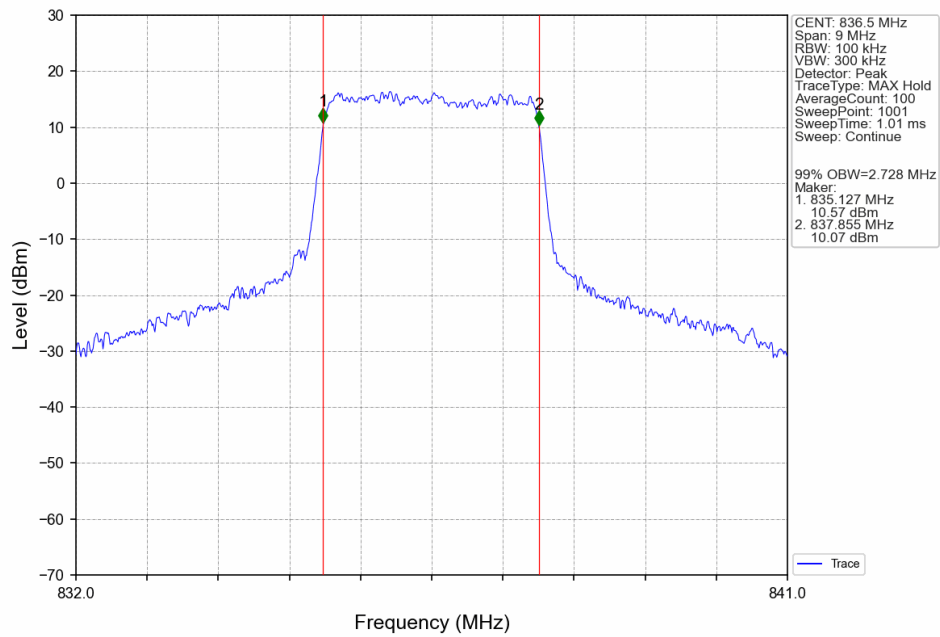
3.2.1 Band5_OBW



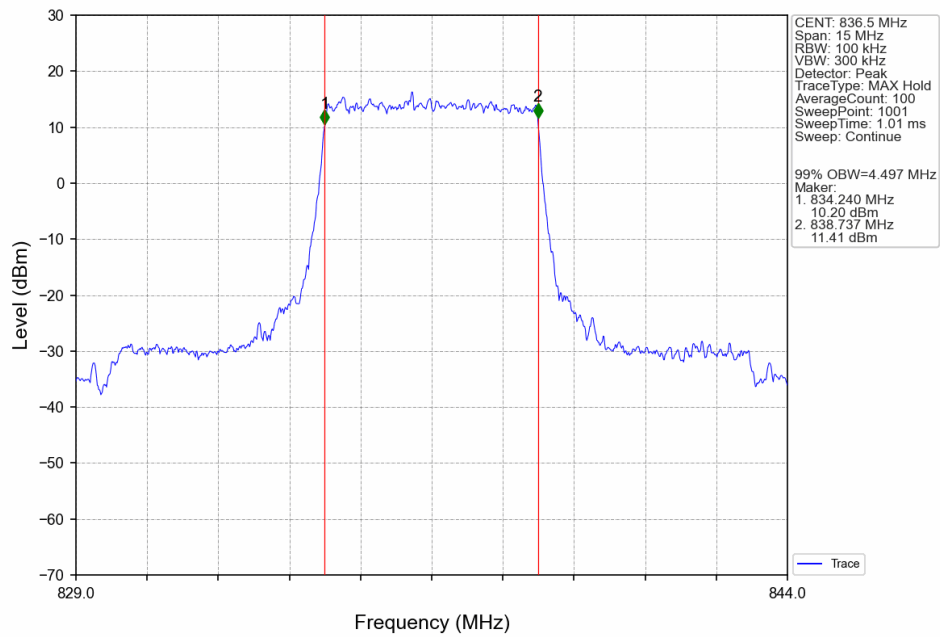
Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



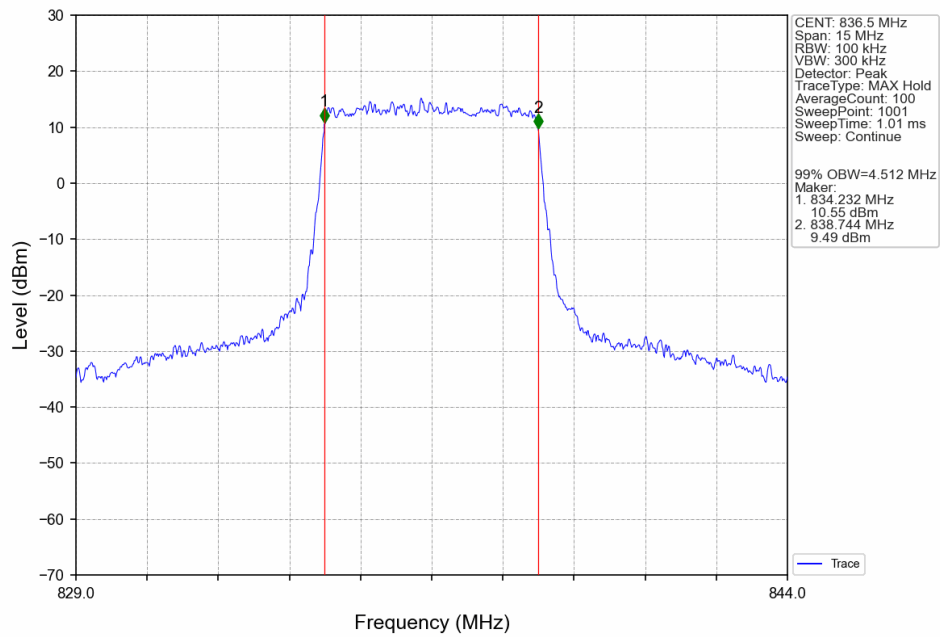
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



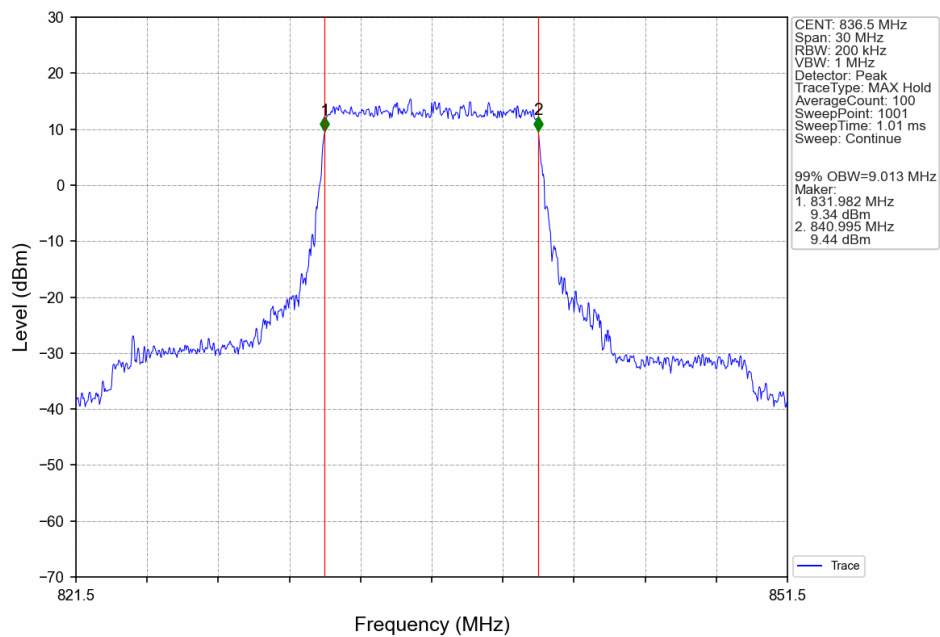
Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



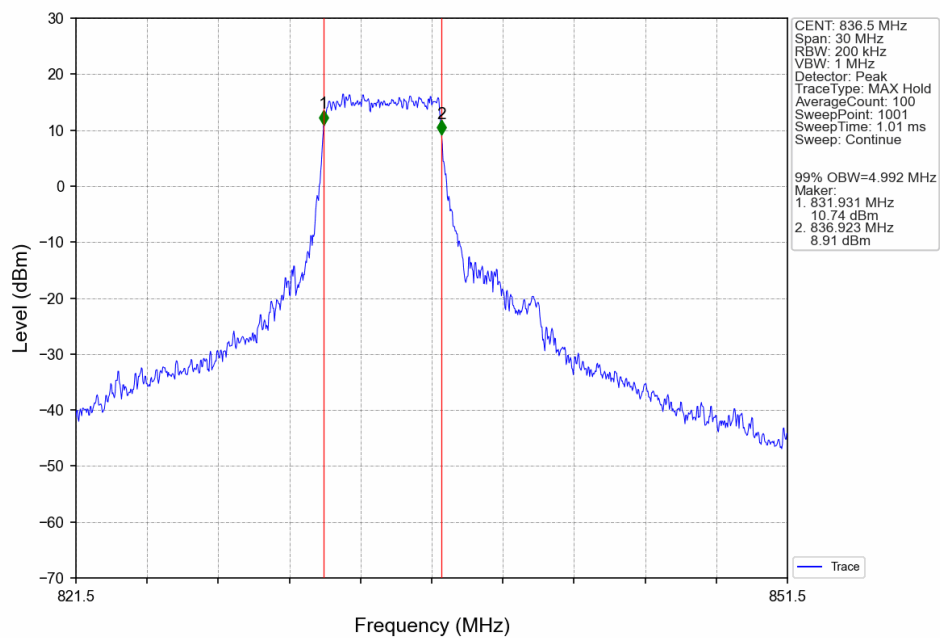
Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



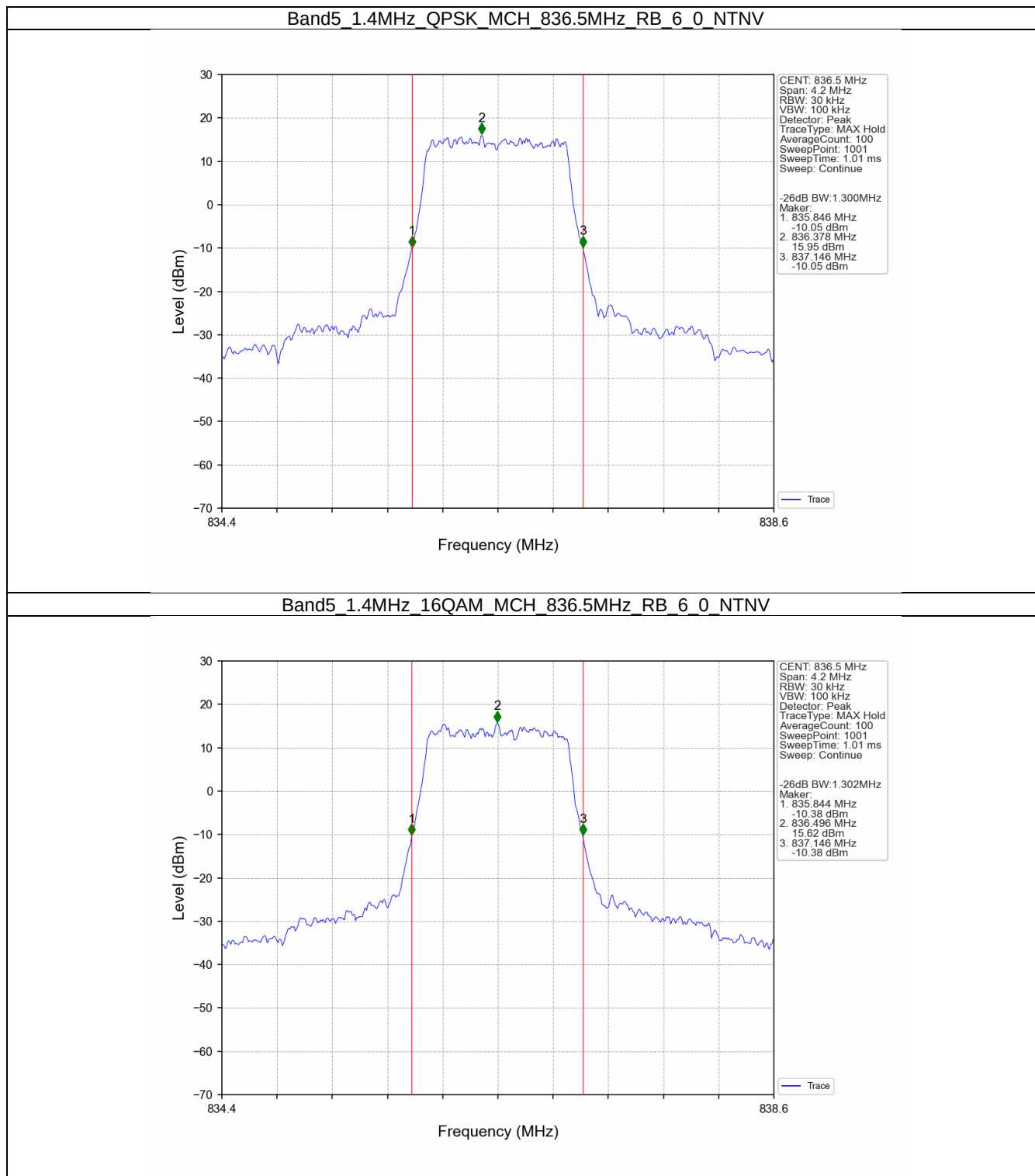
Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



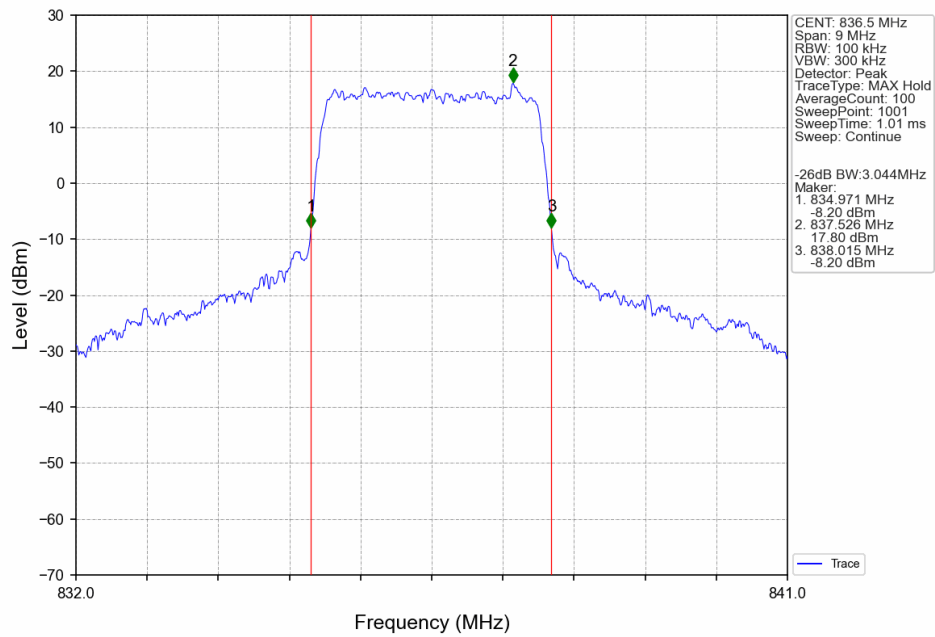
Band5_10MHz_16QAM_MCH_836.5MHz_RB_27_0_NTNV



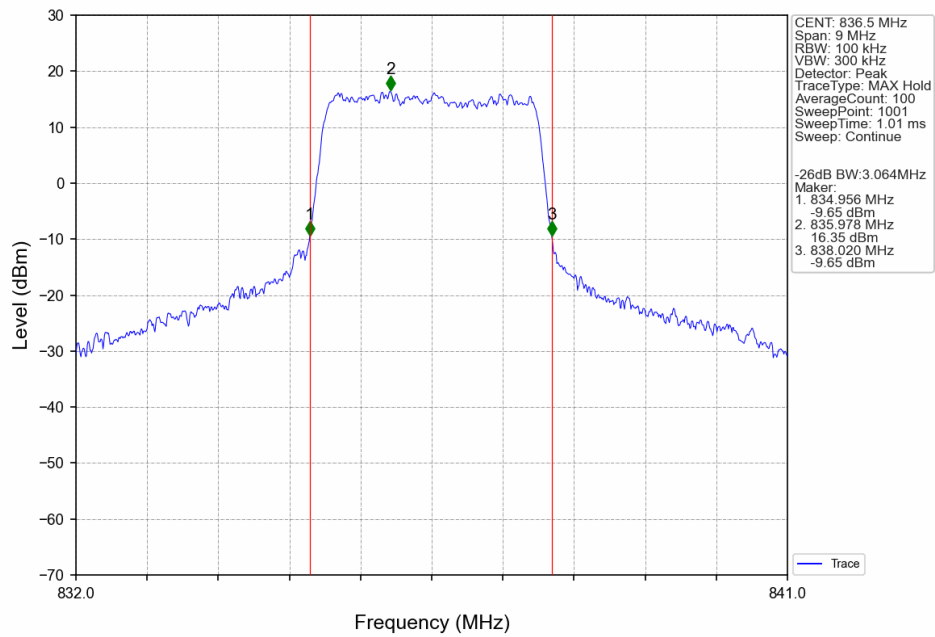
3.2.2 Band5_XDB



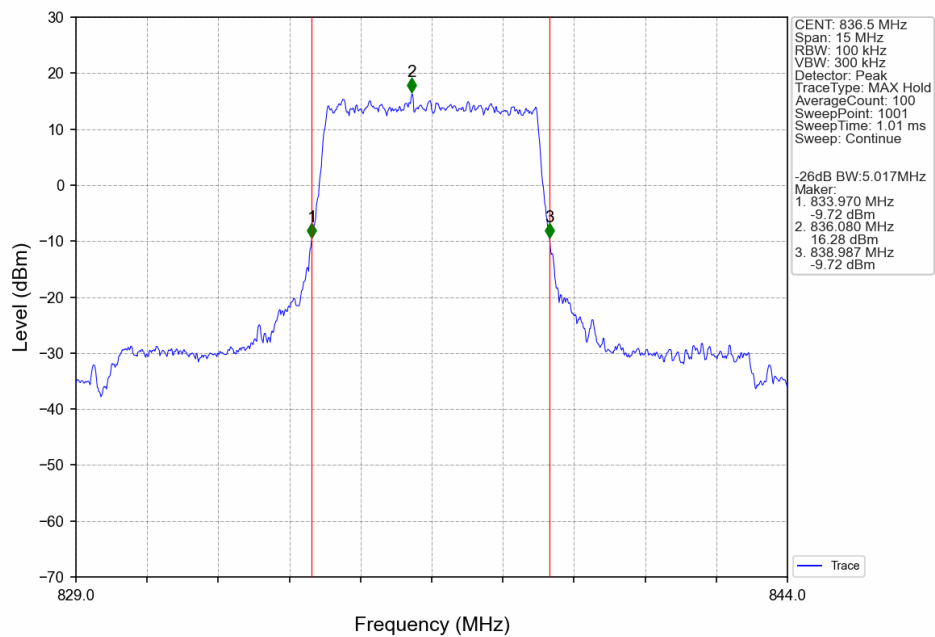
Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



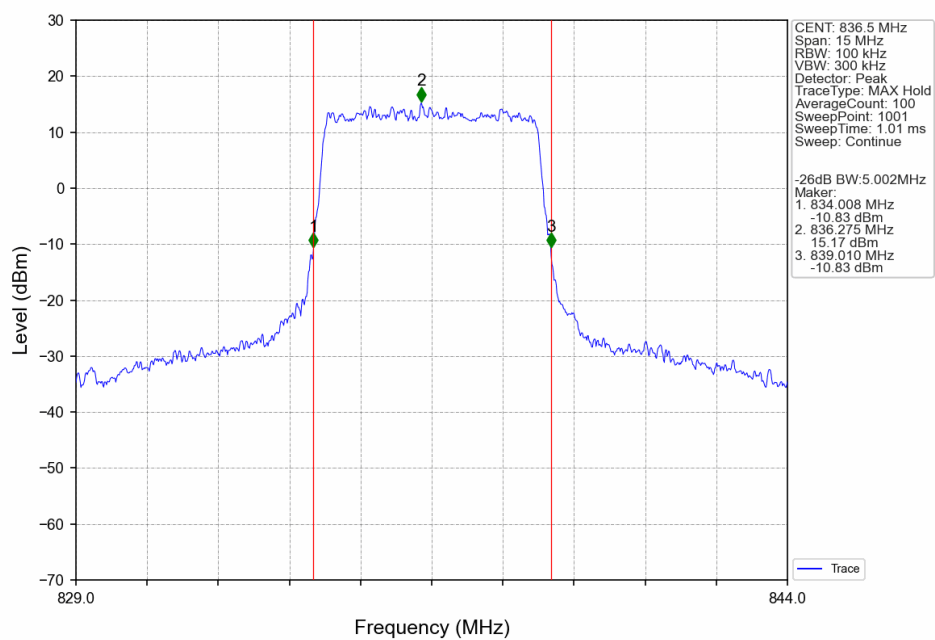
Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



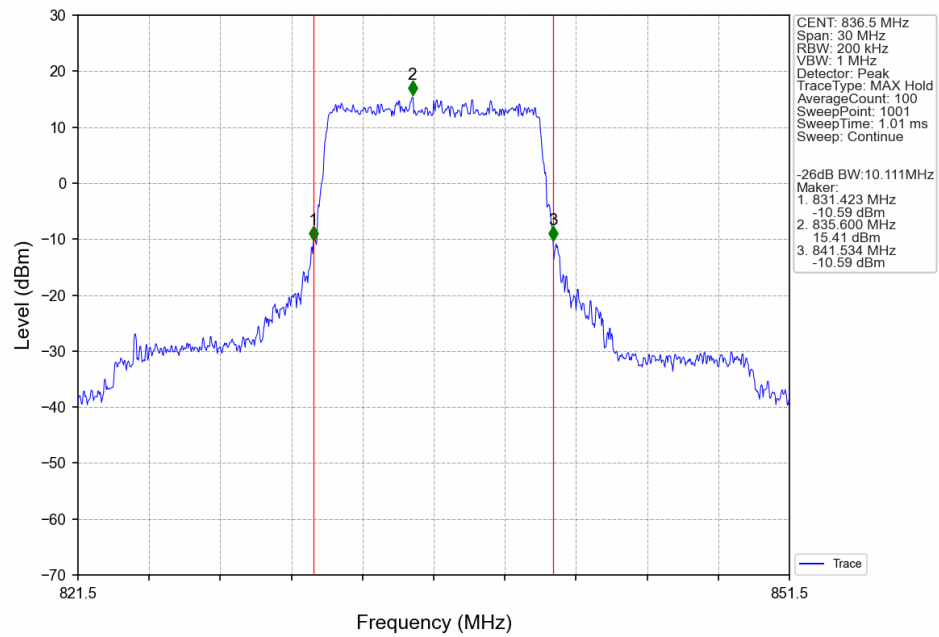
Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



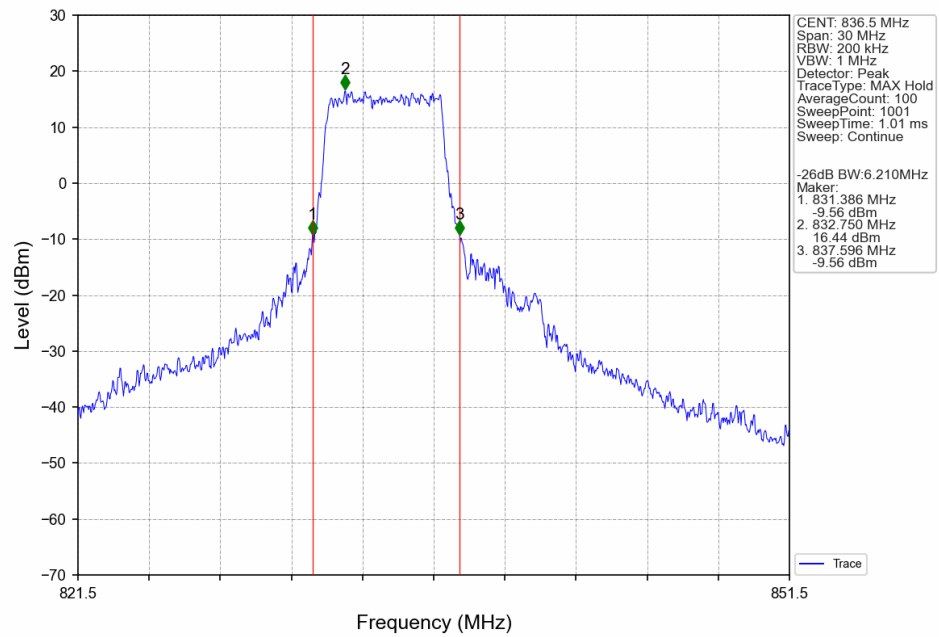
Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_27_0_NTNV



4. Peak-Average Ratio

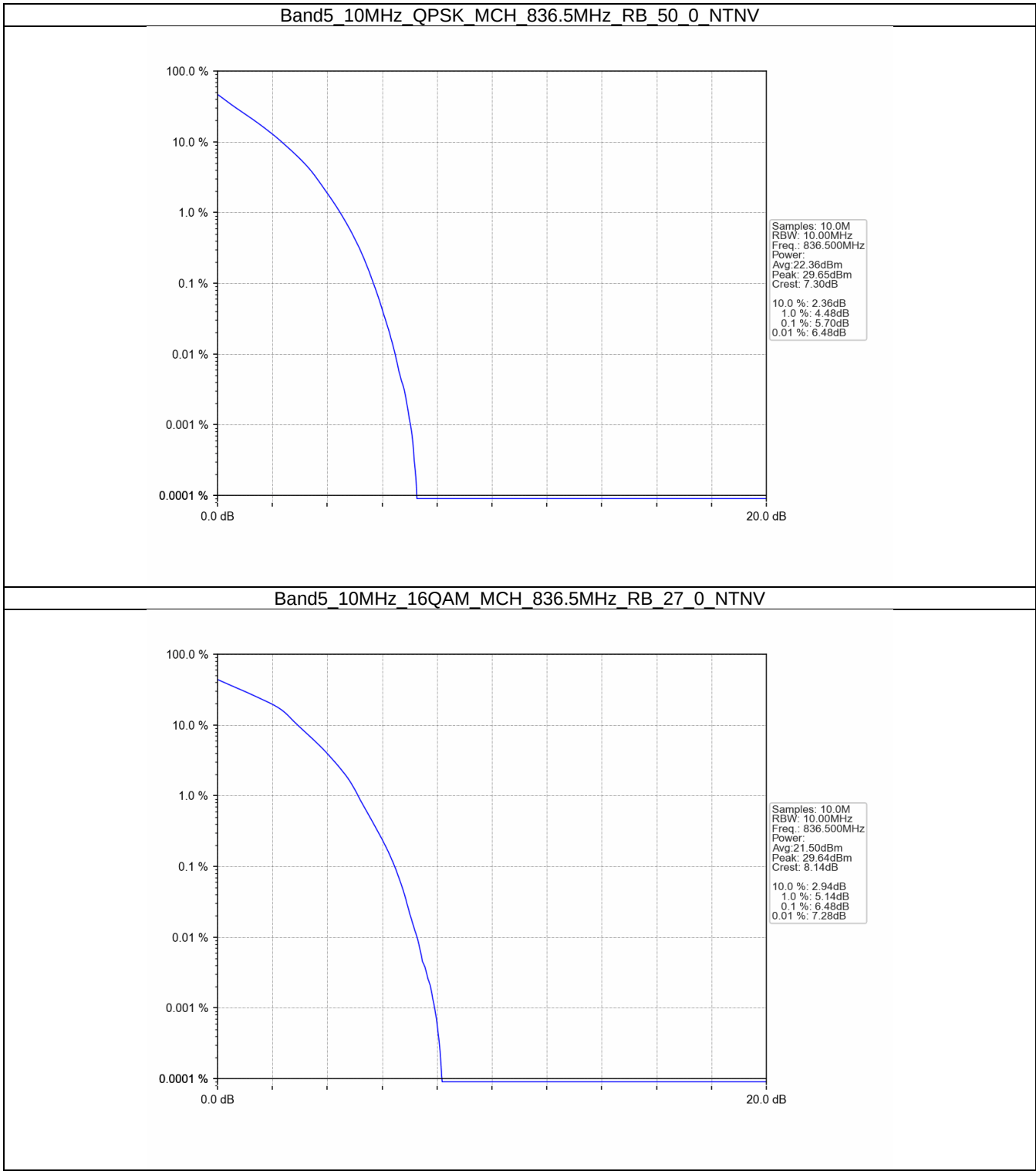
4.1 Test Result

4.1.1 B5_10MHz

Band: 5 / Bandwidth: 10MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	50	0	5.70	<=13	Pass
16QAM	836.5	27	0	6.48	<=13	Pass

4.2 Test Graph

4.2.1 B5_10MHz



Band5_10MHz_16QAM_MCH_836.5MHz_RB_27_0_NTNV

Samples: 10.0M
RBW: 10.00MHz
Freq.: 836.500MHz
Power:
Avg: 21.50dBm
Peak: 29.64dBm
Crest: 8.14dB

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 / 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

5.1.3 B5_5MHz

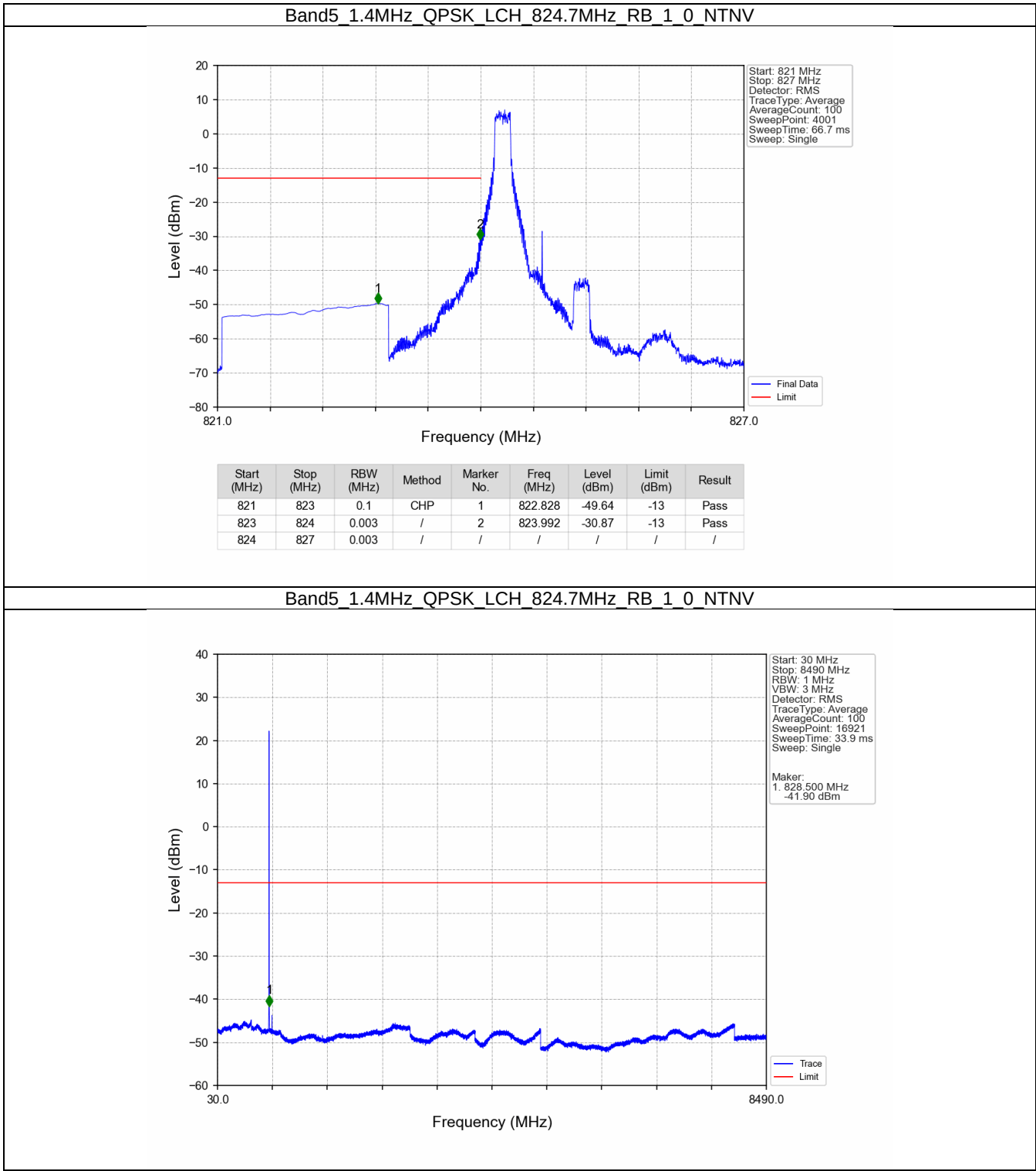
Band: 5 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	826.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	846.5	1	0	Refer To Test Graph		Pass
			24	Refer To Test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

5.1.4 B5_10MHz

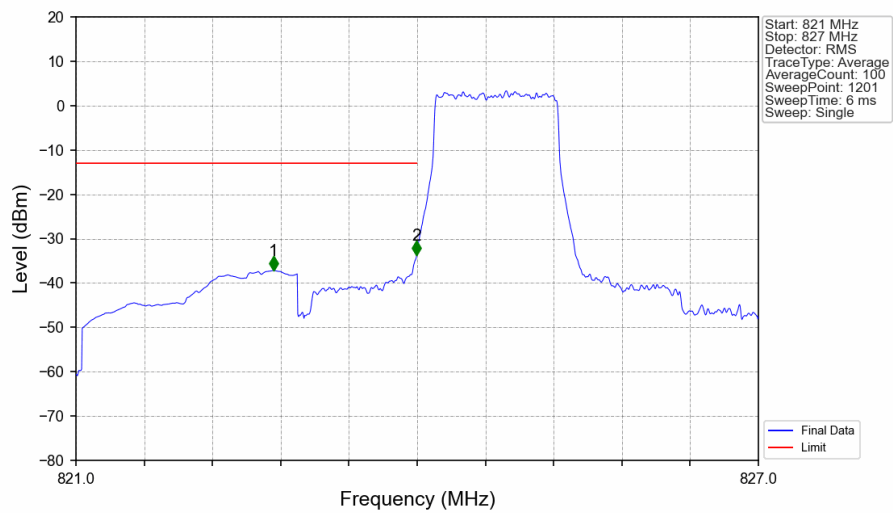
Band: 5 / Bandwidth: 10MHz / NTVN						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	829	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
	844	1	0	Refer To Test Graph		Pass
			49	Refer To Test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

5.2 Test Graph

5.2.1 B5_1.4MHz

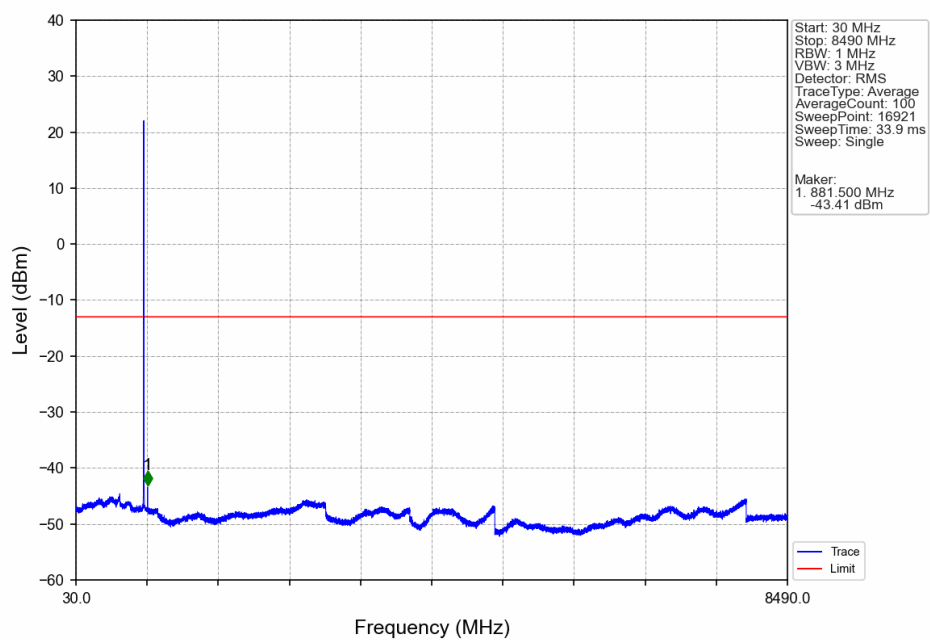


Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV

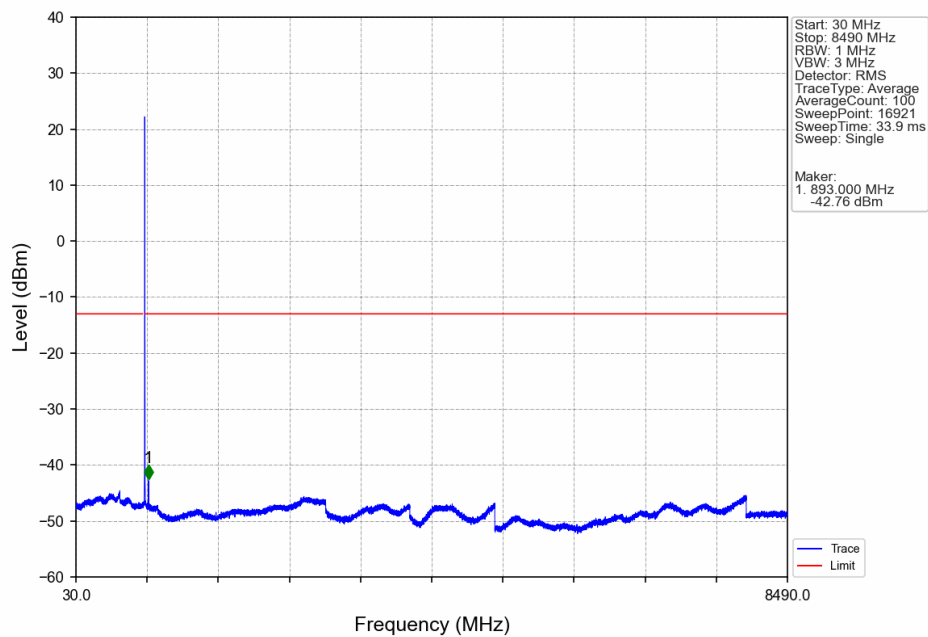


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.735	-37.14	-13	Pass
823	824	0.013	CHP	2	823.995	-33.74	-13	Pass
824	827	0.013	CHP	/	/	/	/	/

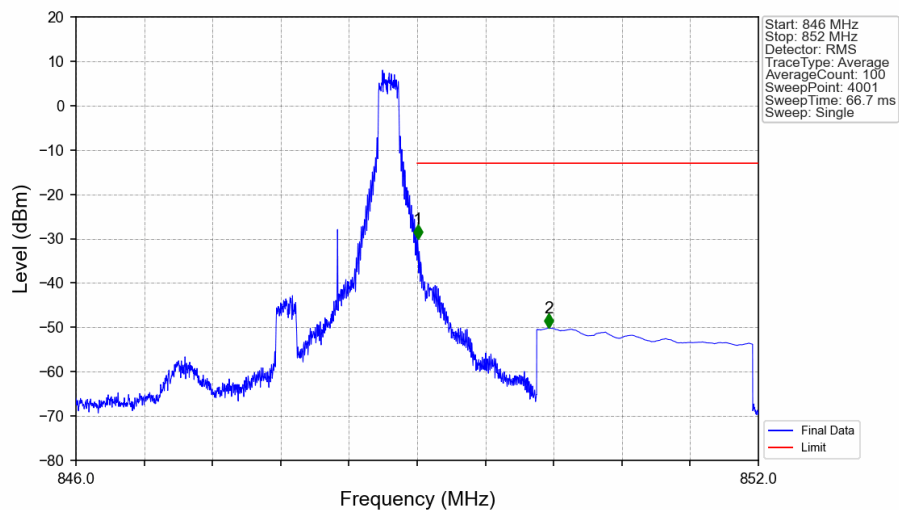
Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



Band5 1.4MHz QPSK HCH 848.3MHz RB 1_0 NTN

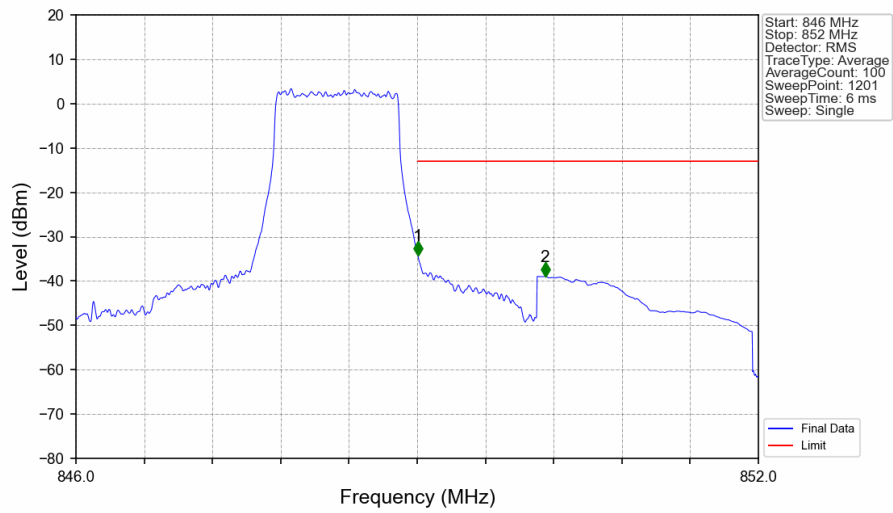


Band5 1.4MHz QPSK HCH 848.3MHz RB 1_5 NTN



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	849.005	-30.11	-13	Pass
850	852	0.1	CHP	2	850.157	-50.12	-13	Pass

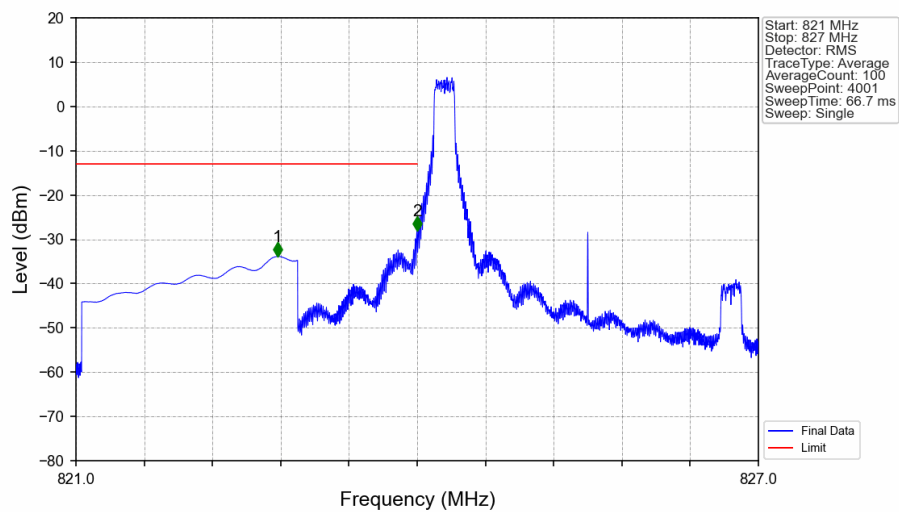
Band5 1.4MHz QPSK HCH 848.3MHz RB 6.0 NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.013	CHP	/	/	/	/	/
849	850	0.013	CHP	1	849.005	-34.20	-13	Pass
850	852	0.1	CHP	2	850.125	-38.97	-13	Pass

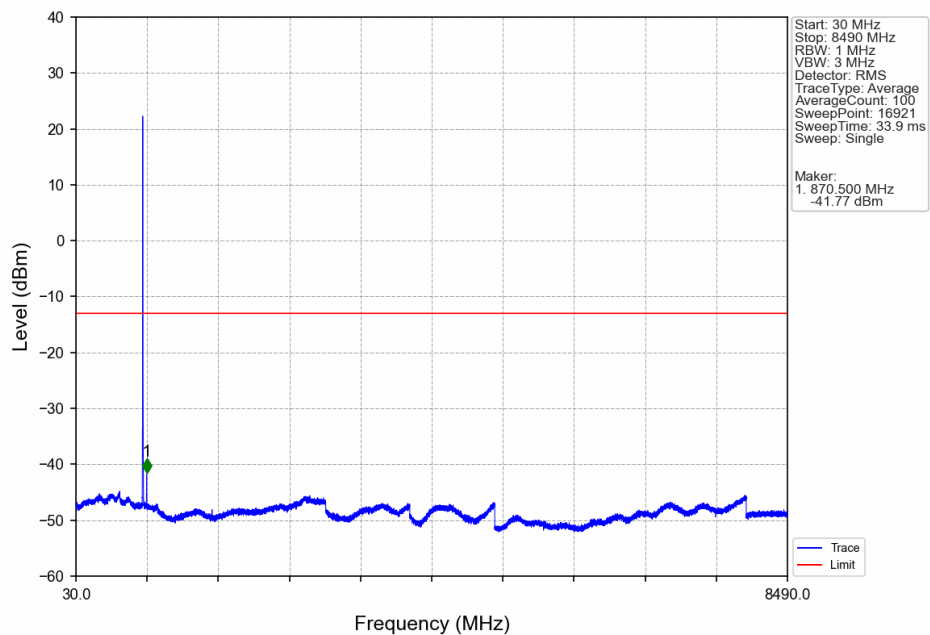
5.2.2 B5_3MHz

Band5_3MHz_QPSK_LCH_825.5MHz_RB_1_0_NTNV

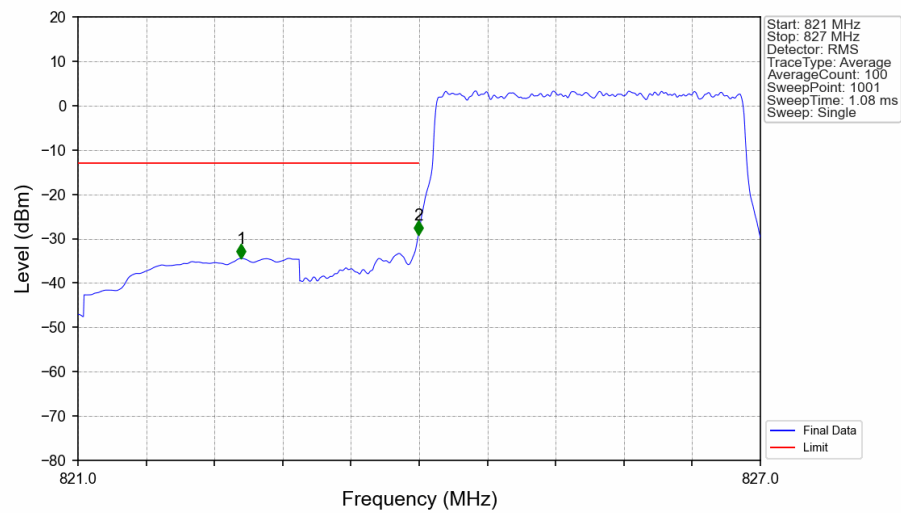


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.773	-33.84	-13	Pass
823	824	0.003	/	2	823.999	-28.01	-13	Pass
824	827	0.003	/	/	/	/	/	/

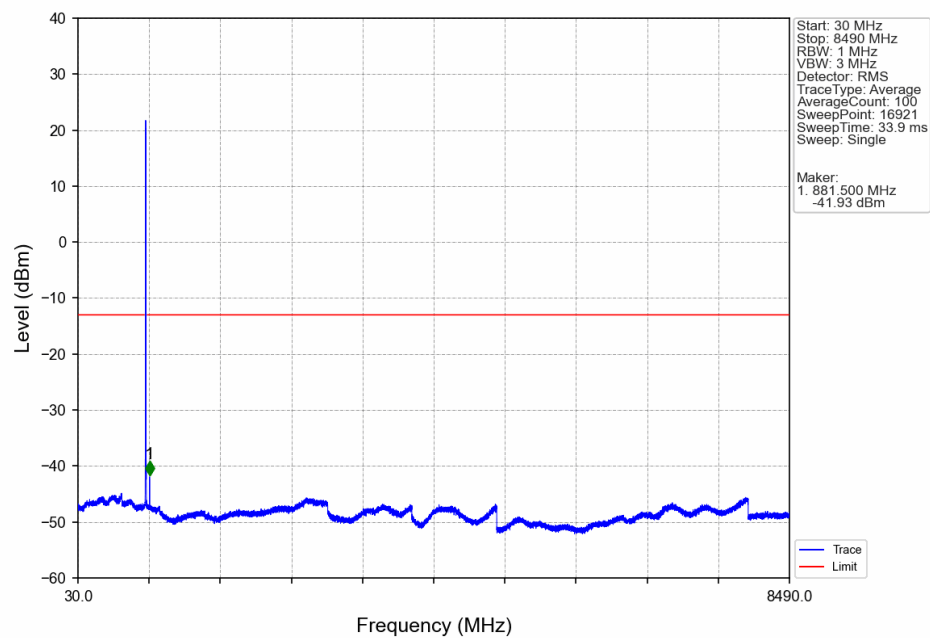
Band5_3MHz_QPSK_LCH_825.5MHz_RB_1_0_NTNV

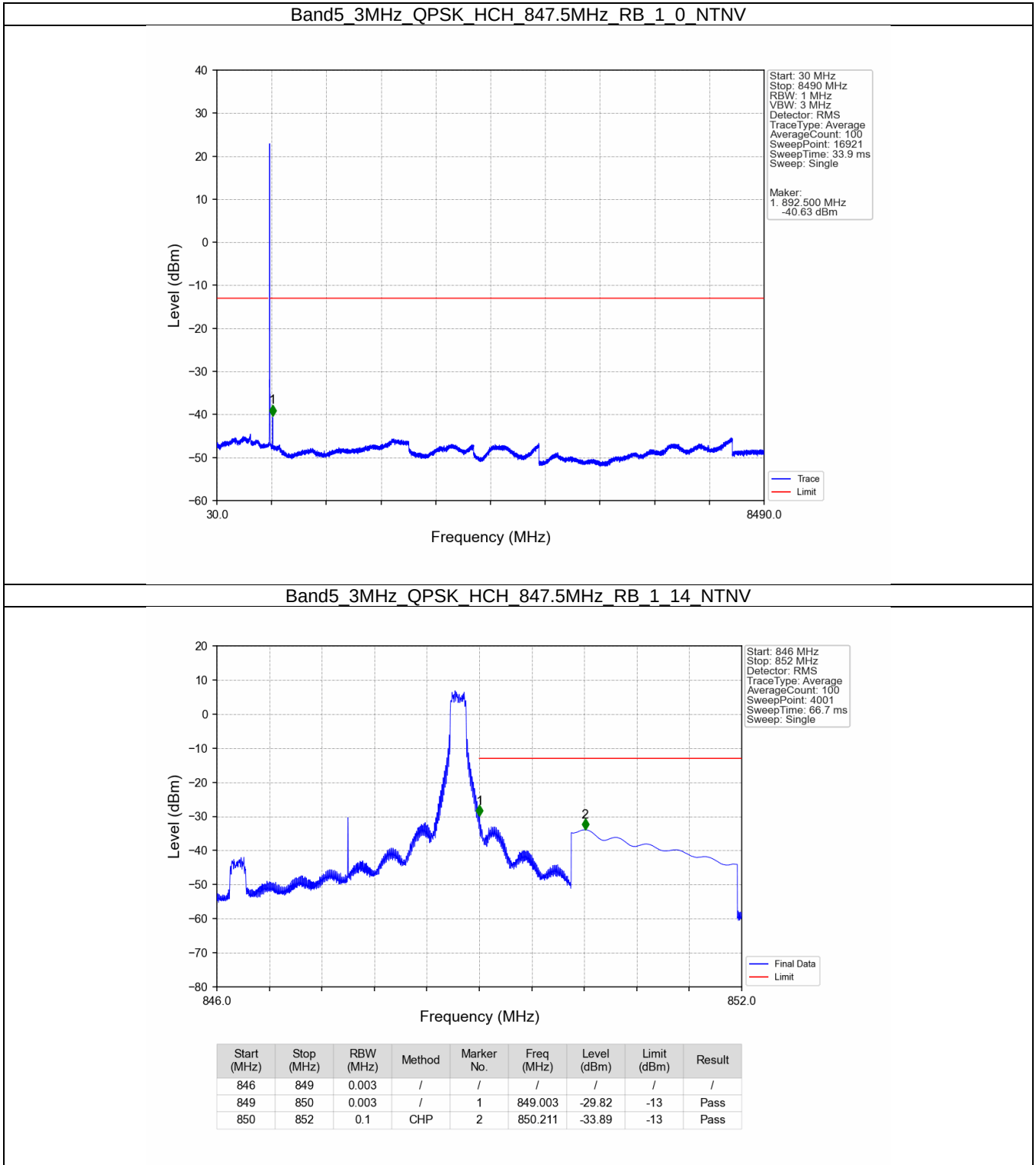


Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV

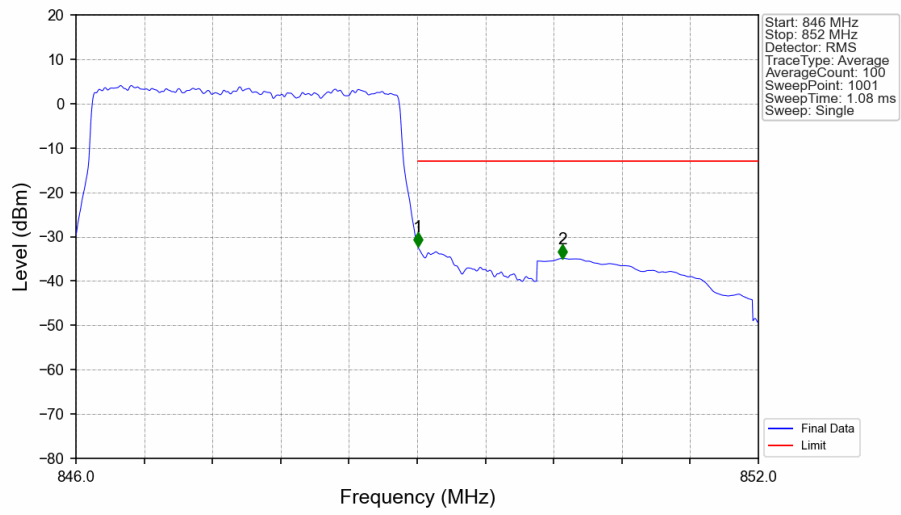


Band5_3MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV





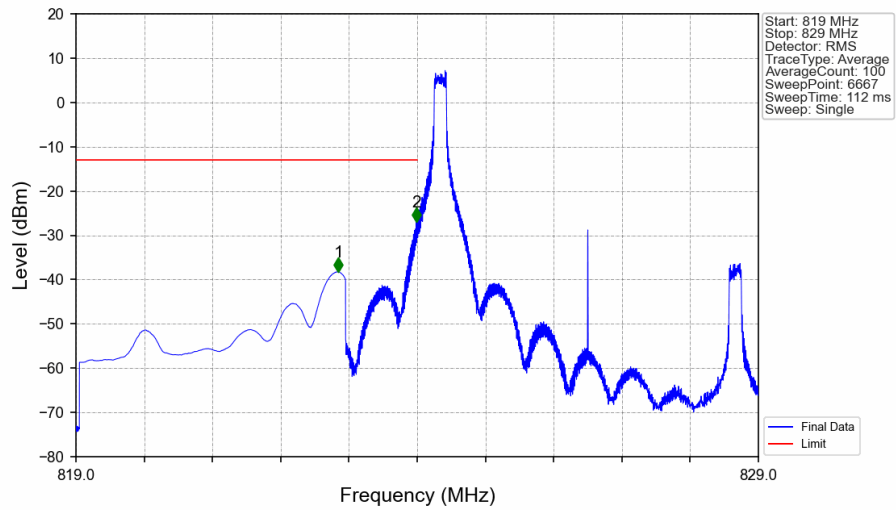
Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



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	849.006	-32.21	-13	Pass
850	852	0.1	CHP	2	850.278	-34.91	-13	Pass

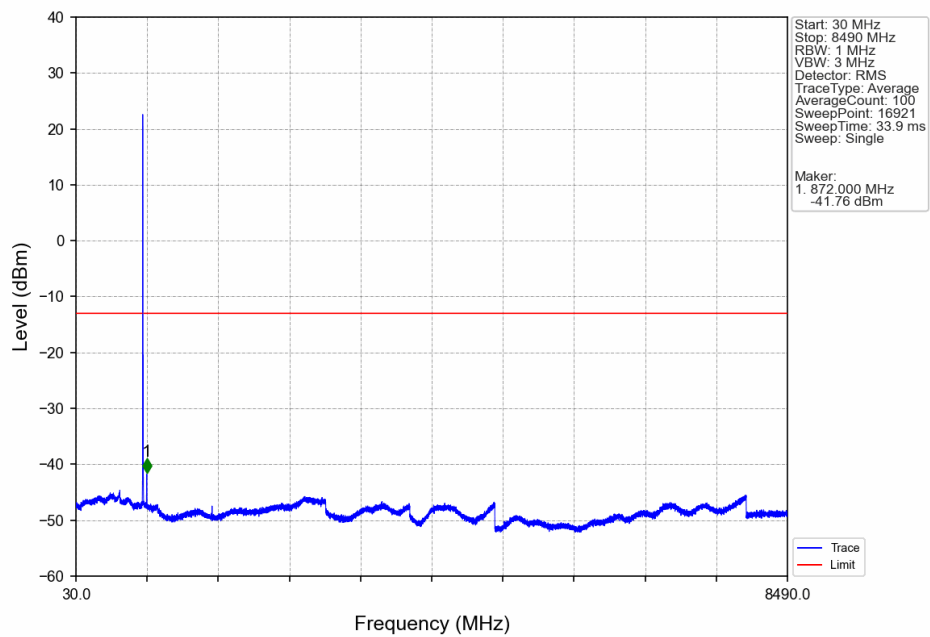
5.2.3 B5_5MHz

Band5_5MHz_QPSK_LCH_826.5MHz_RB_1_0_NTNV

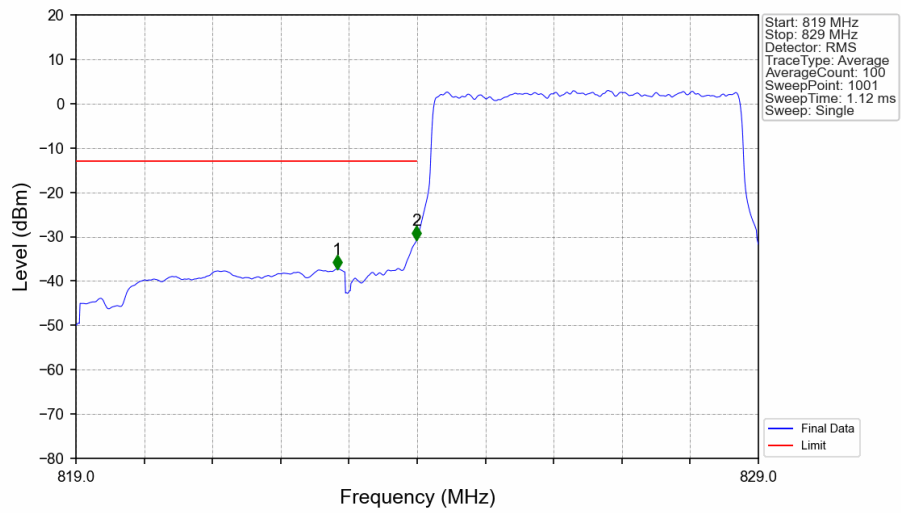


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.843	-38.21	-13	Pass
823	824	0.003	/	2	823.988	-26.87	-13	Pass
824	829	0.003	/	/	/	/	/	/

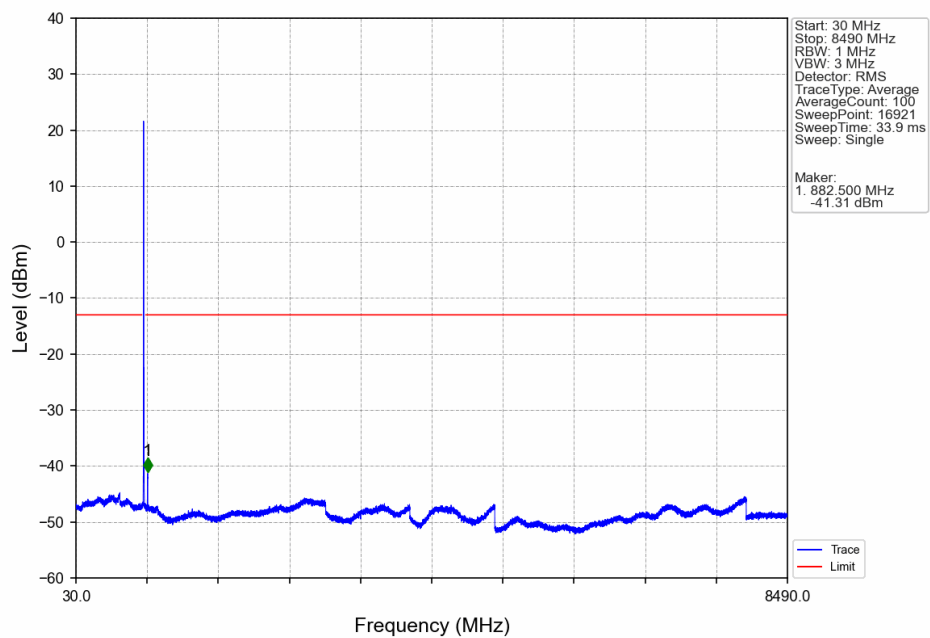
Band5_5MHz_QPSK_LCH_826.5MHz_RB_1_0_NTNV

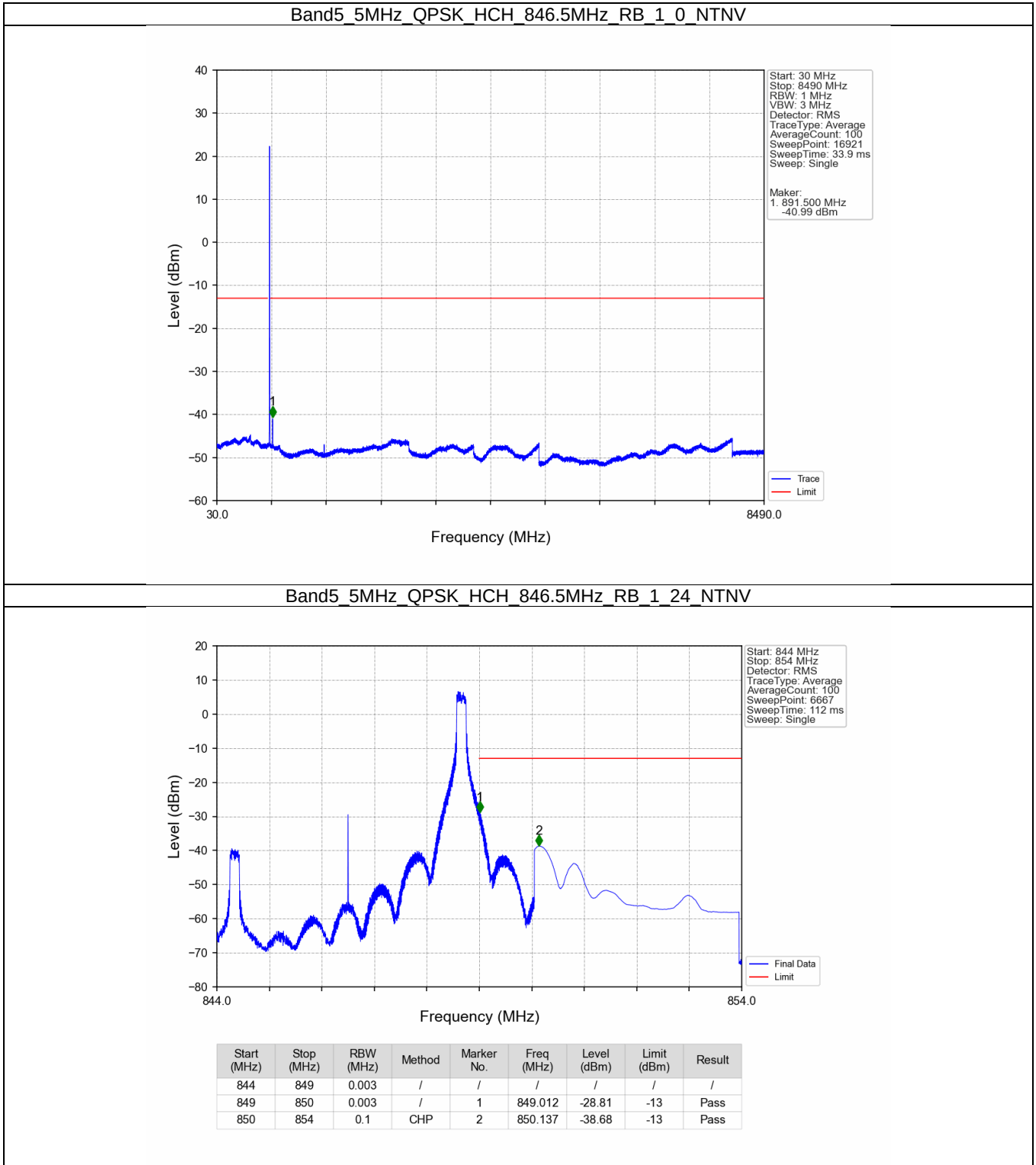


Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV

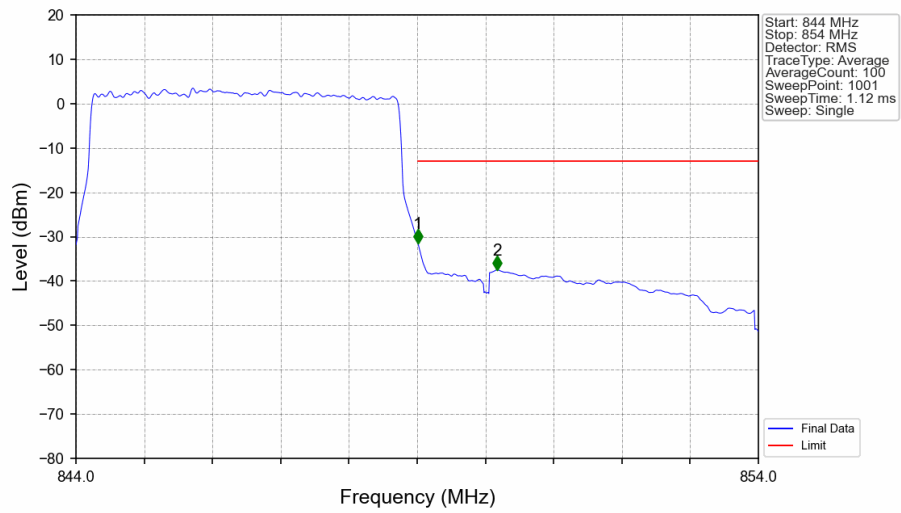


Band5_5MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV





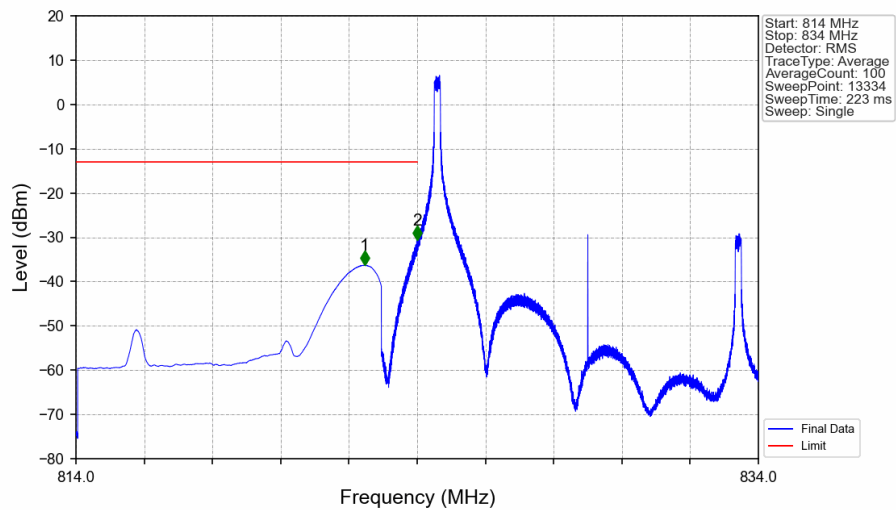
Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.05	CHP	/	/	/	/	/
849	850	0.05	CHP	1	849.010	-31.47	-13	Pass
850	854	0.1	CHP	2	850.170	-37.45	-13	Pass

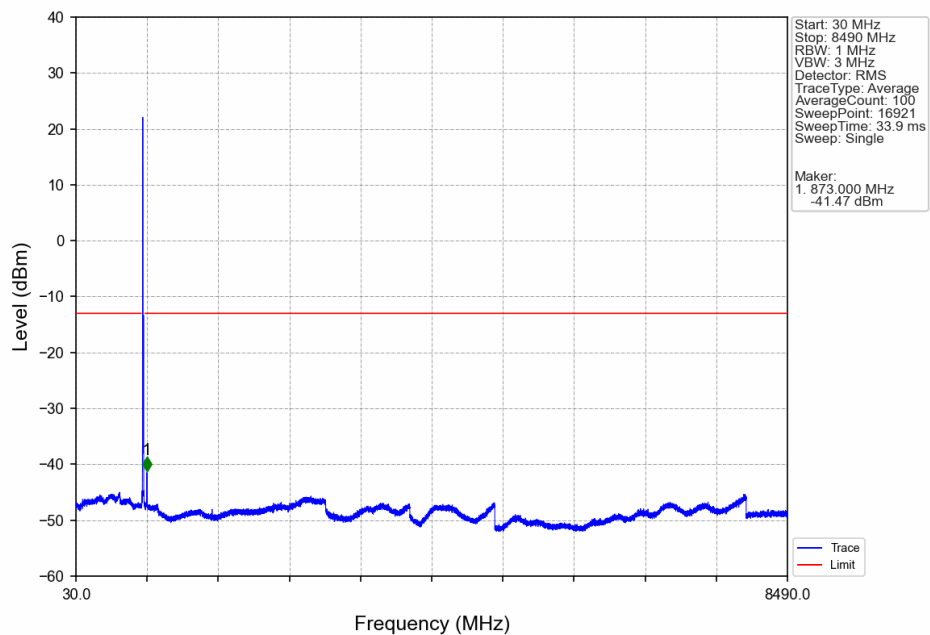
5.2.4 B5_10MHz

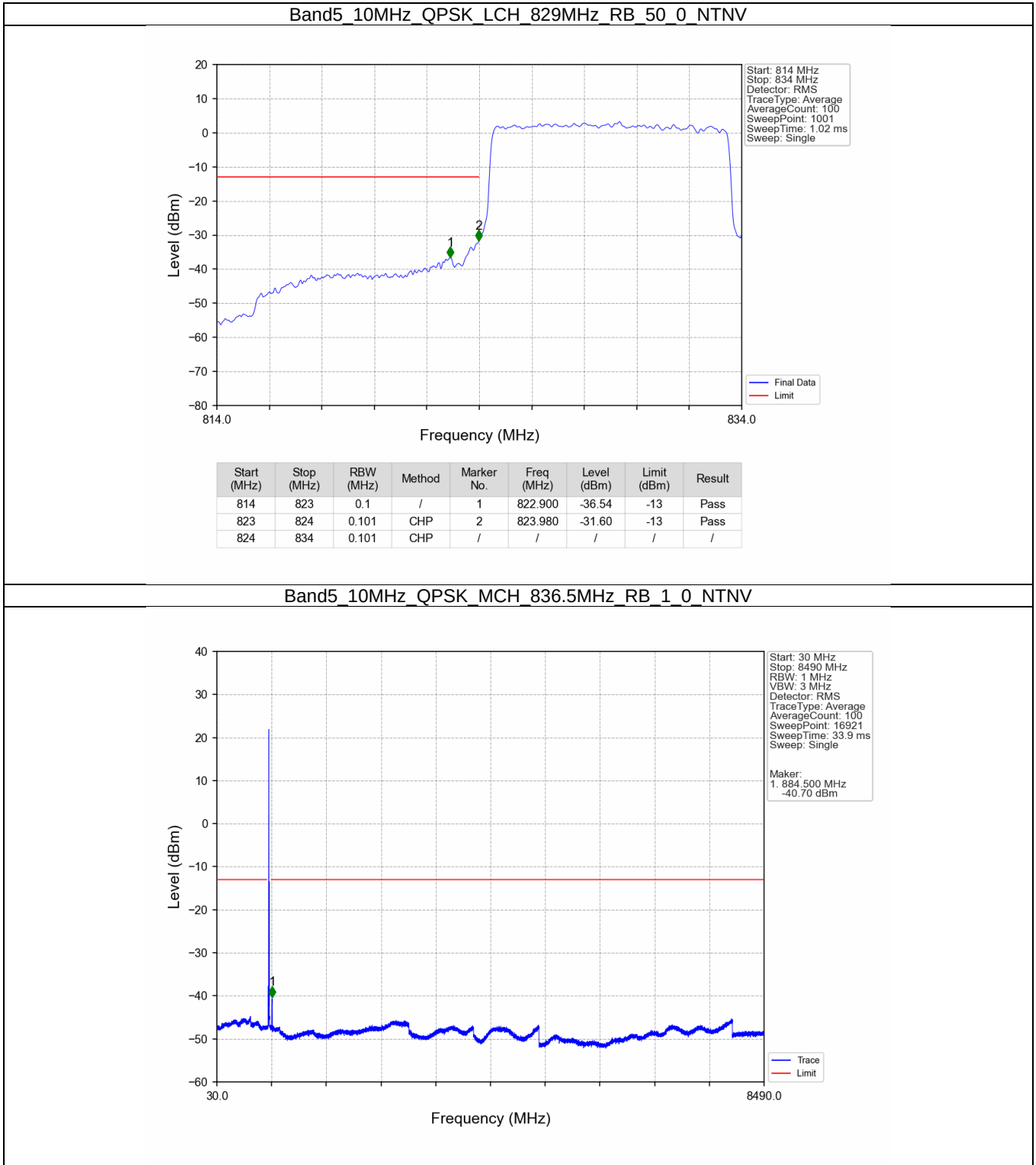
Band5_10MHz_QPSK_LCH_829MHz_RB_1_0_NTNV

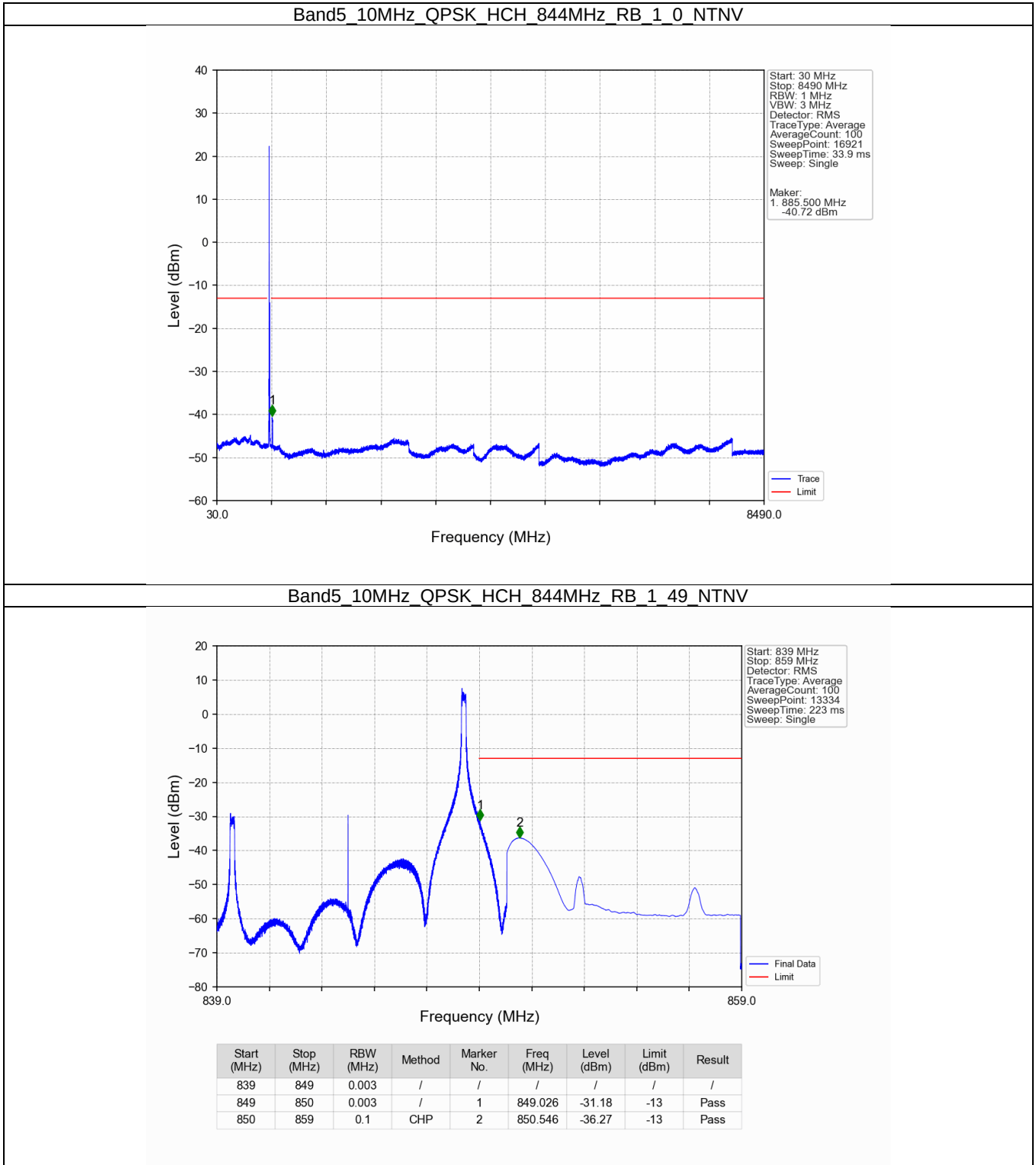


Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	823	0.1	CHP	1	822.453	-36.30	-13	Pass
823	824	0.003	/	2	823.999	-30.60	-13	Pass
824	834	0.003	/	/	/	/	/	/

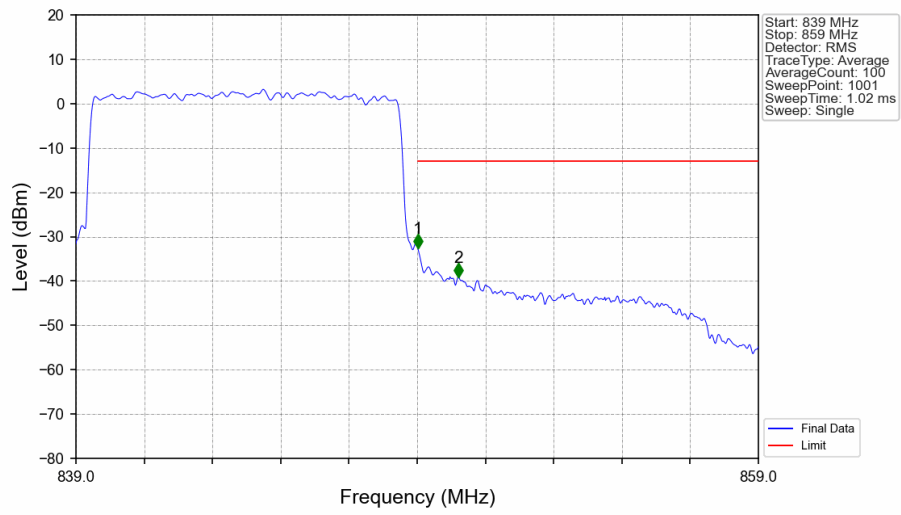
Band5_10MHz_QPSK_LCH_829MHz_RB_1_0_NTNV







Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.101	CHP	/	/	/	/	/
849	850	0.101	CHP	1	849.020	-32.59	-13	Pass
850	859	0.1	/	2	850.200	-39.08	-13	Pass

- End of the Report -