



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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Appendix B.8

LTE Band 5



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 Shenzhen Branch, Wireless Laboratory

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1. Effective (Isotropic) Radiated Power Output Data

1.1 B5_1.4MHz_ERP

1.1.1 Test Result_Ant4

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	24.40	-5.1	17.15	<=38.45	Pass	
			2	24.49	-5.1	17.24	<=38.45	Pass	
			5	24.39	-5.1	17.14	<=38.45	Pass	
		3	0	24.46	-5.1	17.21	<=38.45	Pass	
			2	24.50	-5.1	17.25	<=38.45	Pass	
			3	24.46	-5.1	17.21	<=38.45	Pass	
	6	0	23.48	-5.1	16.23	<=38.45	Pass		
		0	24.48	-5.1	17.23	<=38.45	Pass		
		1	24.62	-5.1	17.37	<=38.45	Pass		
	836.5	1	2	24.50	-5.1	17.25	<=38.45	Pass	
			0	24.52	-5.1	17.27	<=38.45	Pass	
			2	24.53	-5.1	17.28	<=38.45	Pass	
		3	3	24.52	-5.1	17.27	<=38.45	Pass	
			0	23.54	-5.1	16.29	<=38.45	Pass	
			1	24.43	-5.1	17.18	<=38.45	Pass	
	848.3	1	2	24.56	-5.1	17.31	<=38.45	Pass	
			5	24.43	-5.1	17.18	<=38.45	Pass	
			0	24.53	-5.1	17.28	<=38.45	Pass	
		3	2	24.52	-5.1	17.27	<=38.45	Pass	
			3	24.48	-5.1	17.23	<=38.45	Pass	
			0	23.54	-5.1	16.29	<=38.45	Pass	
	16QAM	824.7	1	0	23.54	-5.1	16.29	<=38.45	Pass
				2	23.63	-5.1	16.38	<=38.45	Pass
				5	23.51	-5.1	16.26	<=38.45	Pass
3			0	23.38	-5.1	16.13	<=38.45	Pass	
			2	23.43	-5.1	16.18	<=38.45	Pass	
			3	23.39	-5.1	16.14	<=38.45	Pass	
6		0	22.54	-5.1	15.29	<=38.45	Pass		
		0	23.44	-5.1	16.19	<=38.45	Pass		
		2	23.55	-5.1	16.30	<=38.45	Pass		
836.5		1	5	23.51	-5.1	16.26	<=38.45	Pass	
			0	23.55	-5.1	16.30	<=38.45	Pass	
			2	23.53	-5.1	16.28	<=38.45	Pass	
		3	3	23.51	-5.1	16.26	<=38.45	Pass	
			0	22.51	-5.1	15.26	<=38.45	Pass	
			1	23.37	-5.1	16.12	<=38.45	Pass	
848.3		1	2	23.48	-5.1	16.23	<=38.45	Pass	
			5	23.36	-5.1	16.11	<=38.45	Pass	
			0	23.62	-5.1	16.37	<=38.45	Pass	



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			2	23.66	-5.1	16.41	<=38.45	Pass
			3	23.60	-5.1	16.35	<=38.45	Pass
		6	0	22.57	-5.1	15.32	<=38.45	Pass
64QAM	824.7	1	0	22.56	-5.1	15.31	<=38.45	Pass
			2	22.69	-5.1	15.44	<=38.45	Pass
			5	22.48	-5.1	15.23	<=38.45	Pass
		3	0	22.73	-5.1	15.48	<=38.45	Pass
			2	22.73	-5.1	15.48	<=38.45	Pass
			3	22.70	-5.1	15.45	<=38.45	Pass
	6	0	21.66	-5.1	14.41	<=38.45	Pass	
	836.5	1	0	22.36	-5.1	15.11	<=38.45	Pass
			2	22.44	-5.1	15.19	<=38.45	Pass
			5	22.41	-5.1	15.16	<=38.45	Pass
		3	0	22.51	-5.1	15.26	<=38.45	Pass
			2	22.54	-5.1	15.29	<=38.45	Pass
			3	22.52	-5.1	15.27	<=38.45	Pass
	6	0	21.56	-5.1	14.31	<=38.45	Pass	
	848.3	1	0	22.76	-5.1	15.51	<=38.45	Pass
			2	22.92	-5.1	15.67	<=38.45	Pass
			5	22.78	-5.1	15.53	<=38.45	Pass
		3	0	22.72	-5.1	15.47	<=38.45	Pass
			2	22.72	-5.1	15.47	<=38.45	Pass
			3	22.68	-5.1	15.43	<=38.45	Pass
	6	0	21.48	-5.1	14.23	<=38.45	Pass	
Note 1: ERP=Conducted Power+Antenna Gain-2.15								



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1.2 B5_3MHz_ERP

1.2.1 Test Result

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	24.48	-5.1	17.23	<=38.45	Pass		
			7	24.57	-5.1	17.32	<=38.45	Pass		
			14	24.44	-5.1	17.19	<=38.45	Pass		
		8	0	23.42	-5.1	16.17	<=38.45	Pass		
			4	23.46	-5.1	16.21	<=38.45	Pass		
			7	23.41	-5.1	16.16	<=38.45	Pass		
		15	0	23.42	-5.1	16.17	<=38.45	Pass		
		836.5	1	0	24.50	-5.1	17.25	<=38.45	Pass	
				7	24.65	-5.1	17.40	<=38.45	Pass	
	14			24.51	-5.1	17.26	<=38.45	Pass		
	8		0	23.50	-5.1	16.25	<=38.45	Pass		
			4	23.56	-5.1	16.31	<=38.45	Pass		
			7	23.51	-5.1	16.26	<=38.45	Pass		
	15		0	23.52	-5.1	16.27	<=38.45	Pass		
	847.5		1	0	24.58	-5.1	17.33	<=38.45	Pass	
				7	24.68	-5.1	17.43	<=38.45	Pass	
		14		24.54	-5.1	17.29	<=38.45	Pass		
		8	0	23.51	-5.1	16.26	<=38.45	Pass		
			4	23.55	-5.1	16.30	<=38.45	Pass		
			7	23.49	-5.1	16.24	<=38.45	Pass		
		15	0	23.49	-5.1	16.24	<=38.45	Pass		
		16QAM	825.5	1	0	24.00	-5.1	16.75	<=38.45	Pass
					7	24.07	-5.1	16.82	<=38.45	Pass
	14				23.94	-5.1	16.69	<=38.45	Pass	
8	0			22.61	-5.1	15.36	<=38.45	Pass		
	4			22.68	-5.1	15.43	<=38.45	Pass		
	7			22.63	-5.1	15.38	<=38.45	Pass		
15	0			22.54	-5.1	15.29	<=38.45	Pass		
836.5	1			0	23.65	-5.1	16.40	<=38.45	Pass	
				7	23.79	-5.1	16.54	<=38.45	Pass	
			14	23.68	-5.1	16.43	<=38.45	Pass		
	8		0	22.48	-5.1	15.23	<=38.45	Pass		
			4	22.59	-5.1	15.34	<=38.45	Pass		
			7	22.54	-5.1	15.29	<=38.45	Pass		
	15		0	22.52	-5.1	15.27	<=38.45	Pass		
	847.5		1	0	23.58	-5.1	16.33	<=38.45	Pass	
				7	23.64	-5.1	16.39	<=38.45	Pass	
14				23.45	-5.1	16.20	<=38.45	Pass		
8			0	22.62	-5.1	15.37	<=38.45	Pass		
			4	22.66	-5.1	15.41	<=38.45	Pass		
			7	22.58	-5.1	15.33	<=38.45	Pass		



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64QAM	825.5	15	0	22.57	-5.1	15.32	<=38.45	Pass	
			1	0	22.73	-5.1	15.48	<=38.45	Pass
				7	22.84	-5.1	15.59	<=38.45	Pass
		8	14	22.70	-5.1	15.45	<=38.45	Pass	
			0	21.56	-5.1	14.31	<=38.45	Pass	
			4	21.59	-5.1	14.34	<=38.45	Pass	
		15	7	21.58	-5.1	14.33	<=38.45	Pass	
			0	21.41	-5.1	14.16	<=38.45	Pass	
			1	0	22.57	-5.1	15.32	<=38.45	Pass
	7	22.75		-5.1	15.50	<=38.45	Pass		
	14	22.63		-5.1	15.38	<=38.45	Pass		
	836.5	8	0	21.41	-5.1	14.16	<=38.45	Pass	
			4	21.46	-5.1	14.21	<=38.45	Pass	
			7	21.43	-5.1	14.18	<=38.45	Pass	
	15	0	21.62	-5.1	14.37	<=38.45	Pass		
		1	0	22.46	-5.1	15.21	<=38.45	Pass	
			7	22.48	-5.1	15.23	<=38.45	Pass	
	14		22.34	-5.1	15.09	<=38.45	Pass		
	847.5	8	0	21.52	-5.1	14.27	<=38.45	Pass	
			4	21.53	-5.1	14.28	<=38.45	Pass	
			7	21.47	-5.1	14.22	<=38.45	Pass	
	15	0	21.49	-5.1	14.24	<=38.45	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15



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1.3 B5_5MHz_ERP

1.3.1 Test Result

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	24.39	-5.1	17.14	<=38.45	Pass		
			13	24.50	-5.1	17.25	<=38.45	Pass		
			24	24.40	-5.1	17.15	<=38.45	Pass		
		12	0	23.40	-5.1	16.15	<=38.45	Pass		
			6	23.45	-5.1	16.20	<=38.45	Pass		
			13	23.43	-5.1	16.18	<=38.45	Pass		
		25	0	23.38	-5.1	16.13	<=38.45	Pass		
		836.5	1	0	24.45	-5.1	17.20	<=38.45	Pass	
				13	24.51	-5.1	17.26	<=38.45	Pass	
	24			24.46	-5.1	17.21	<=38.45	Pass		
	12		0	23.50	-5.1	16.25	<=38.45	Pass		
			6	23.55	-5.1	16.30	<=38.45	Pass		
			13	23.43	-5.1	16.18	<=38.45	Pass		
	25		0	23.49	-5.1	16.24	<=38.45	Pass		
	846.5		1	0	24.51	-5.1	17.26	<=38.45	Pass	
				13	24.57	-5.1	17.32	<=38.45	Pass	
		24		24.40	-5.1	17.15	<=38.45	Pass		
		12	0	23.53	-5.1	16.28	<=38.45	Pass		
			6	23.56	-5.1	16.31	<=38.45	Pass		
			13	23.47	-5.1	16.22	<=38.45	Pass		
		25	0	23.48	-5.1	16.23	<=38.45	Pass		
		16QAM	826.5	1	0	23.23	-5.1	15.98	<=38.45	Pass
					13	23.31	-5.1	16.06	<=38.45	Pass
	24				23.24	-5.1	15.99	<=38.45	Pass	
12	0			22.38	-5.1	15.13	<=38.45	Pass		
	6			22.48	-5.1	15.23	<=38.45	Pass		
	13			22.46	-5.1	15.21	<=38.45	Pass		
25	0			22.47	-5.1	15.22	<=38.45	Pass		
836.5	1			0	23.66	-5.1	16.41	<=38.45	Pass	
				13	23.73	-5.1	16.48	<=38.45	Pass	
			24	23.69	-5.1	16.44	<=38.45	Pass		
	12		0	22.55	-5.1	15.30	<=38.45	Pass		
			6	22.63	-5.1	15.38	<=38.45	Pass		
			13	22.50	-5.1	15.25	<=38.45	Pass		
	25		0	22.53	-5.1	15.28	<=38.45	Pass		
	846.5		1	0	23.55	-5.1	16.30	<=38.45	Pass	
				13	23.62	-5.1	16.37	<=38.45	Pass	
24				23.46	-5.1	16.21	<=38.45	Pass		
12			0	22.55	-5.1	15.30	<=38.45	Pass		
			6	22.58	-5.1	15.33	<=38.45	Pass		
			13	22.49	-5.1	15.24	<=38.45	Pass		



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64QAM	826.5	25	0	22.57	-5.1	15.32	<=38.45	Pass	
			1	0	22.37	-5.1	15.12	<=38.45	Pass
				13	22.49	-5.1	15.24	<=38.45	Pass
				24	22.38	-5.1	15.13	<=38.45	Pass
		12	0	21.30	-5.1	14.05	<=38.45	Pass	
			6	21.37	-5.1	14.12	<=38.45	Pass	
			13	21.37	-5.1	14.12	<=38.45	Pass	
		25	0	21.38	-5.1	14.13	<=38.45	Pass	
		836.5	1	0	22.61	-5.1	15.36	<=38.45	Pass
	13			22.71	-5.1	15.46	<=38.45	Pass	
	24			22.61	-5.1	15.36	<=38.45	Pass	
	12			0	21.43	-5.1	14.18	<=38.45	Pass
			6	21.55	-5.1	14.30	<=38.45	Pass	
			13	21.44	-5.1	14.19	<=38.45	Pass	
	25		0	21.52	-5.1	14.27	<=38.45	Pass	
	846.5		1	0	22.69	-5.1	15.44	<=38.45	Pass
				13	22.73	-5.1	15.48	<=38.45	Pass
		24		22.59	-5.1	15.34	<=38.45	Pass	
		12		0	21.60	-5.1	14.35	<=38.45	Pass
			6	21.64	-5.1	14.39	<=38.45	Pass	
			13	21.52	-5.1	14.27	<=38.45	Pass	
		25	0	21.46	-5.1	14.21	<=38.45	Pass	

Note1: ERP=Conducted Power+Antenna Gain-2.15



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1.4 B5_10MHz_ERP

1.4.1 Test Result

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	24.43	-5.1	17.18	<=38.45	Pass	
			25	24.60	-5.1	17.35	<=38.45	Pass	
			49	24.43	-5.1	17.18	<=38.45	Pass	
		25	0	23.42	-5.1	16.17	<=38.45	Pass	
			13	23.43	-5.1	16.18	<=38.45	Pass	
			25	23.44	-5.1	16.19	<=38.45	Pass	
		50	0	23.41	-5.1	16.16	<=38.45	Pass	
			1	0	24.49	-5.1	17.24	<=38.45	Pass
				25	24.68	-5.1	17.43	<=38.45	Pass
	49	24.56		-5.1	17.31	<=38.45	Pass		
	836.5	25	0	23.50	-5.1	16.25	<=38.45	Pass	
			13	23.52	-5.1	16.27	<=38.45	Pass	
			25	23.57	-5.1	16.32	<=38.45	Pass	
		50	0	23.53	-5.1	16.28	<=38.45	Pass	
			1	0	24.59	-5.1	17.34	<=38.45	Pass
				25	24.73	-5.1	17.48	<=38.45	Pass
	49	24.55		-5.1	17.30	<=38.45	Pass		
	844	25	0	23.62	-5.1	16.37	<=38.45	Pass	
			13	23.56	-5.1	16.31	<=38.45	Pass	
			25	23.54	-5.1	16.29	<=38.45	Pass	
		50	0	23.58	-5.1	16.33	<=38.45	Pass	
			1	0	23.99	-5.1	16.74	<=38.45	Pass
				25	24.09	-5.1	16.84	<=38.45	Pass
	49	23.91		-5.1	16.66	<=38.45	Pass		
16QAM	829	25	0	22.50	-5.1	15.25	<=38.45	Pass	
			13	22.55	-5.1	15.30	<=38.45	Pass	
			25	22.57	-5.1	15.32	<=38.45	Pass	
		50	0	22.49	-5.1	15.24	<=38.45	Pass	
			1	0	23.63	-5.1	16.38	<=38.45	Pass
				25	23.79	-5.1	16.54	<=38.45	Pass
		49		23.71	-5.1	16.46	<=38.45	Pass	
		836.5	25	0	22.55	-5.1	15.30	<=38.45	Pass
				13	22.61	-5.1	15.36	<=38.45	Pass
	25			22.62	-5.1	15.37	<=38.45	Pass	
	50		0	22.59	-5.1	15.34	<=38.45	Pass	
			1	0	23.51	-5.1	16.26	<=38.45	Pass
				25	23.70	-5.1	16.45	<=38.45	Pass
	49	23.46		-5.1	16.21	<=38.45	Pass		
	844	25	0	22.72	-5.1	15.47	<=38.45	Pass	
			13	22.70	-5.1	15.45	<=38.45	Pass	
			25	22.64	-5.1	15.39	<=38.45	Pass	



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64QAM	829	50	0	22.64	-5.1	15.39	<=38.45	Pass	
			1	0	22.66	-5.1	15.41	<=38.45	Pass
				25	22.82	-5.1	15.57	<=38.45	Pass
		25	49	22.67	-5.1	15.42	<=38.45	Pass	
			0	21.44	-5.1	14.19	<=38.45	Pass	
			13	21.46	-5.1	14.21	<=38.45	Pass	
		50	25	21.49	-5.1	14.24	<=38.45	Pass	
			0	21.44	-5.1	14.19	<=38.45	Pass	
			836.5	1	0	22.58	-5.1	15.33	<=38.45
	25	22.69			-5.1	15.44	<=38.45	Pass	
	49	22.64			-5.1	15.39	<=38.45	Pass	
	25	0	21.57	-5.1	14.32	<=38.45	Pass		
		13	21.63	-5.1	14.38	<=38.45	Pass		
		25	21.63	-5.1	14.38	<=38.45	Pass		
	50	0	21.53	-5.1	14.28	<=38.45	Pass		
		844	1	0	22.54	-5.1	15.29	<=38.45	Pass
				25	22.71	-5.1	15.46	<=38.45	Pass
	49			22.51	-5.1	15.26	<=38.45	Pass	
	25	0	21.68	-5.1	14.43	<=38.45	Pass		
		13	21.63	-5.1	14.38	<=38.45	Pass		
		25	21.62	-5.1	14.37	<=38.45	Pass		
	50	0	21.61	-5.1	14.36	<=38.45	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15



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2. Frequency Stability

2.1 B5_1.4MHz

2.1.1 Test Result

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	3.6	-5.980	-0.0073	-2.5 to 2.5	Pass	
					3.84	-7.181	-0.0087	-2.5 to 2.5	Pass	
					4.3	-2.503	-0.0030	-2.5 to 2.5	Pass	
				-30	3.84	-5.593	-0.0068	-2.5 to 2.5	Pass	
					-20	3.84	-5.894	-0.0071	-2.5 to 2.5	Pass
					-10	3.84	-4.921	-0.0060	-2.5 to 2.5	Pass
				0	3.84	-4.749	-0.0058	-2.5 to 2.5	Pass	
					10	3.84	-8.440	-0.0102	-2.5 to 2.5	Pass
					30	3.84	-6.323	-0.0077	-2.5 to 2.5	Pass
	836.5	6	0	20	3.6	-7.496	-0.0090	-2.5 to 2.5	Pass	
					3.84	-6.423	-0.0077	-2.5 to 2.5	Pass	
					4.3	-5.879	-0.0070	-2.5 to 2.5	Pass	
				-30	3.84	-6.423	-0.0077	-2.5 to 2.5	Pass	
					-20	3.84	-7.095	-0.0085	-2.5 to 2.5	Pass
					-10	3.84	-2.646	-0.0032	-2.5 to 2.5	Pass
				0	3.84	-6.008	-0.0072	-2.5 to 2.5	Pass	
					10	3.84	-8.211	-0.0098	-2.5 to 2.5	Pass
					30	3.84	0.730	0.0009	-2.5 to 2.5	Pass
	848.3	6	0	20	3.6	-8.326	-0.0098	-2.5 to 2.5	Pass	
					3.84	-14.834	-0.0175	-2.5 to 2.5	Pass	
					4.3	-15.821	-0.0187	-2.5 to 2.5	Pass	
				-30	3.84	-14.105	-0.0166	-2.5 to 2.5	Pass	
					-20	3.84	-13.804	-0.0163	-2.5 to 2.5	Pass
					-10	3.84	-12.689	-0.0150	-2.5 to 2.5	Pass
				0	3.84	-10.829	-0.0128	-2.5 to 2.5	Pass	
					10	3.84	-14.191	-0.0167	-2.5 to 2.5	Pass
					30	3.84	-8.698	-0.0103	-2.5 to 2.5	Pass
16QAM	824.7	6	0	20	3.6	-4.506	-0.0055	-2.5 to 2.5	Pass	
					3.84	-7.739	-0.0094	-2.5 to 2.5	Pass	
					4.3	-5.093	-0.0062	-2.5 to 2.5	Pass	
				-30	3.84	-10.428	-0.0126	-2.5 to 2.5	Pass	
				-20	3.84	-7.138	-0.0087	-2.5 to 2.5	Pass	
-10	3.84	-10.014	-0.0121	-2.5 to 2.5	Pass					



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64QAM				0	3.84	-4.148	-0.0050	-2.5 to 2.5	Pass
				10	3.84	-7.253	-0.0088	-2.5 to 2.5	Pass
				30	3.84	-9.499	-0.0115	-2.5 to 2.5	Pass
				40	3.84	-7.238	-0.0088	-2.5 to 2.5	Pass
				50	3.84	-0.787	-0.0010	-2.5 to 2.5	Pass
	836.5	6	0	20	3.6	-5.808	-0.0069	-2.5 to 2.5	Pass
					3.84	-6.523	-0.0078	-2.5 to 2.5	Pass
					4.3	-5.622	-0.0067	-2.5 to 2.5	Pass
				-30	3.84	-4.134	-0.0049	-2.5 to 2.5	Pass
				-20	3.84	-5.207	-0.0062	-2.5 to 2.5	Pass
				-10	3.84	-7.253	-0.0087	-2.5 to 2.5	Pass
				0	3.84	-7.238	-0.0087	-2.5 to 2.5	Pass
				10	3.84	-6.394	-0.0076	-2.5 to 2.5	Pass
				30	3.84	-9.484	-0.0113	-2.5 to 2.5	Pass
				40	3.84	-3.691	-0.0044	-2.5 to 2.5	Pass
	50	3.84	-7.167	-0.0086	-2.5 to 2.5	Pass			
	848.3	6	0	20	3.6	-9.799	-0.0116	-2.5 to 2.5	Pass
					3.84	-8.426	-0.0099	-2.5 to 2.5	Pass
					4.3	-8.354	-0.0098	-2.5 to 2.5	Pass
				-30	3.84	-6.094	-0.0072	-2.5 to 2.5	Pass
				-20	3.84	-1.903	-0.0022	-2.5 to 2.5	Pass
				-10	3.84	-8.984	-0.0106	-2.5 to 2.5	Pass
				0	3.84	-7.496	-0.0088	-2.5 to 2.5	Pass
				10	3.84	-8.025	-0.0095	-2.5 to 2.5	Pass
				30	3.84	-4.363	-0.0051	-2.5 to 2.5	Pass
				40	3.84	-4.320	-0.0051	-2.5 to 2.5	Pass
	50	3.84	-8.569	-0.0101	-2.5 to 2.5	Pass			
	824.7	6	0	20	3.6	-5.651	-0.0069	-2.5 to 2.5	Pass
					3.84	-3.719	-0.0045	-2.5 to 2.5	Pass
					4.3	-8.297	-0.0101	-2.5 to 2.5	Pass
				-30	3.84	-4.950	-0.0060	-2.5 to 2.5	Pass
				-20	3.84	-9.756	-0.0118	-2.5 to 2.5	Pass
				-10	3.84	-4.849	-0.0059	-2.5 to 2.5	Pass
				0	3.84	-7.510	-0.0091	-2.5 to 2.5	Pass
				10	3.84	0.458	0.0006	-2.5 to 2.5	Pass
				30	3.84	-4.349	-0.0053	-2.5 to 2.5	Pass
40				3.84	-5.164	-0.0063	-2.5 to 2.5	Pass	
50	3.84	-3.948	-0.0048	-2.5 to 2.5	Pass				
836.5	6	0	20	3.6	-3.161	-0.0038	-2.5 to 2.5	Pass	
				3.84	-8.955	-0.0107	-2.5 to 2.5	Pass	
				4.3	-6.824	-0.0082	-2.5 to 2.5	Pass	
			-30	3.84	-10.014	-0.0120	-2.5 to 2.5	Pass	
			-20	3.84	-7.825	-0.0094	-2.5 to 2.5	Pass	
			-10	3.84	-5.407	-0.0065	-2.5 to 2.5	Pass	
			0	3.84	-6.495	-0.0078	-2.5 to 2.5	Pass	
			10	3.84	-8.898	-0.0106	-2.5 to 2.5	Pass	
			30	3.84	-4.478	-0.0054	-2.5 to 2.5	Pass	
			40	3.84	-8.454	-0.0101	-2.5 to 2.5	Pass	
50	3.84	-5.708	-0.0068	-2.5 to 2.5	Pass				



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848.3	6	0	20	3.6	-2.990	-0.0035	-2.5 to 2.5	Pass
				3.84	-2.532	-0.0030	-2.5 to 2.5	Pass
				4.3	-5.236	-0.0062	-2.5 to 2.5	Pass
			-30	3.84	-4.706	-0.0055	-2.5 to 2.5	Pass
			-20	3.84	-6.108	-0.0072	-2.5 to 2.5	Pass
			-10	3.84	-4.692	-0.0055	-2.5 to 2.5	Pass
			0	3.84	-2.503	-0.0030	-2.5 to 2.5	Pass
			10	3.84	-2.089	-0.0025	-2.5 to 2.5	Pass
			30	3.84	-5.751	-0.0068	-2.5 to 2.5	Pass
			40	3.84	-1.431	-0.0017	-2.5 to 2.5	Pass
50	3.84	-5.236	-0.0062	-2.5 to 2.5	Pass			



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2.2 B5_3MHz

2.2.1 Test Result

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	3.6	-9.770	-0.0118	-2.5 to 2.5	Pass	
					3.84	-15.292	-0.0185	-2.5 to 2.5	Pass	
					4.3	-13.218	-0.0160	-2.5 to 2.5	Pass	
				-30	3.84	-14.377	-0.0174	-2.5 to 2.5	Pass	
					-20	3.84	-11.115	-0.0135	-2.5 to 2.5	Pass
					-10	3.84	-13.332	-0.0162	-2.5 to 2.5	Pass
				0	0	3.84	-9.212	-0.0112	-2.5 to 2.5	Pass
					10	3.84	-9.885	-0.0120	-2.5 to 2.5	Pass
					30	3.84	-9.298	-0.0113	-2.5 to 2.5	Pass
	836.5	15	0	20	3.6	-0.572	-0.0007	-2.5 to 2.5	Pass	
					3.84	-10.500	-0.0126	-2.5 to 2.5	Pass	
					4.3	-9.084	-0.0109	-2.5 to 2.5	Pass	
				-30	3.84	-7.181	-0.0086	-2.5 to 2.5	Pass	
					-20	3.84	-7.725	-0.0092	-2.5 to 2.5	Pass
					-10	3.84	-6.380	-0.0076	-2.5 to 2.5	Pass
				0	0	3.84	-8.497	-0.0102	-2.5 to 2.5	Pass
					10	3.84	-6.595	-0.0079	-2.5 to 2.5	Pass
					30	3.84	-5.937	-0.0071	-2.5 to 2.5	Pass
	847.5	15	0	20	3.6	-3.262	-0.0038	-2.5 to 2.5	Pass	
					3.84	-8.755	-0.0103	-2.5 to 2.5	Pass	
					4.3	-7.653	-0.0090	-2.5 to 2.5	Pass	
				-30	3.84	-8.469	-0.0100	-2.5 to 2.5	Pass	
					-20	3.84	-9.971	-0.0118	-2.5 to 2.5	Pass
					-10	3.84	-0.730	-0.0009	-2.5 to 2.5	Pass
				0	0	3.84	-9.913	-0.0117	-2.5 to 2.5	Pass
					10	3.84	-8.454	-0.0100	-2.5 to 2.5	Pass
					30	3.84	-6.695	-0.0079	-2.5 to 2.5	Pass
16QAM	825.5	15	0	20	3.6	-6.866	-0.0083	-2.5 to 2.5	Pass	
					3.84	-3.405	-0.0041	-2.5 to 2.5	Pass	
					4.3	-5.522	-0.0067	-2.5 to 2.5	Pass	
				-30	3.84	-5.865	-0.0071	-2.5 to 2.5	Pass	
					-20	3.84	-6.666	-0.0081	-2.5 to 2.5	Pass
					-10	3.84	-4.320	-0.0052	-2.5 to 2.5	Pass
				0	0	3.84	-6.495	-0.0079	-2.5 to 2.5	Pass
					10	3.84	-6.738	-0.0082	-2.5 to 2.5	Pass



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64QAM	836.5	15	0	30	3.84	-2.317	-0.0028	-2.5 to 2.5	Pass
				40	3.84	-4.578	-0.0055	-2.5 to 2.5	Pass
				50	3.84	-5.608	-0.0068	-2.5 to 2.5	Pass
				20	3.6	-6.008	-0.0072	-2.5 to 2.5	Pass
					3.84	-8.469	-0.0101	-2.5 to 2.5	Pass
					4.3	-4.034	-0.0048	-2.5 to 2.5	Pass
				-30	3.84	-9.155	-0.0109	-2.5 to 2.5	Pass
				-20	3.84	-6.008	-0.0072	-2.5 to 2.5	Pass
				-10	3.84	-3.490	-0.0042	-2.5 to 2.5	Pass
				0	3.84	-5.836	-0.0070	-2.5 to 2.5	Pass
	10	3.84	-9.656	-0.0115	-2.5 to 2.5	Pass			
	30	3.84	-2.775	-0.0033	-2.5 to 2.5	Pass			
	40	3.84	-7.482	-0.0089	-2.5 to 2.5	Pass			
	50	3.84	-10.285	-0.0123	-2.5 to 2.5	Pass			
	847.5	15	0	20	3.6	-9.856	-0.0116	-2.5 to 2.5	Pass
					3.84	-4.492	-0.0053	-2.5 to 2.5	Pass
					4.3	-4.849	-0.0057	-2.5 to 2.5	Pass
				-30	3.84	-6.495	-0.0077	-2.5 to 2.5	Pass
				-20	3.84	-8.926	-0.0105	-2.5 to 2.5	Pass
				-10	3.84	-9.313	-0.0110	-2.5 to 2.5	Pass
0				3.84	0.415	0.0005	-2.5 to 2.5	Pass	
10				3.84	-5.908	-0.0070	-2.5 to 2.5	Pass	
30				3.84	-9.413	-0.0111	-2.5 to 2.5	Pass	
40				3.84	-7.982	-0.0094	-2.5 to 2.5	Pass	
50	3.84	-5.436	-0.0064	-2.5 to 2.5	Pass				
825.5	15	0	20	3.6	-7.067	-0.0086	-2.5 to 2.5	Pass	
				3.84	-4.663	-0.0056	-2.5 to 2.5	Pass	
				4.3	-3.490	-0.0042	-2.5 to 2.5	Pass	
			-30	3.84	-6.723	-0.0081	-2.5 to 2.5	Pass	
			-20	3.84	-4.392	-0.0053	-2.5 to 2.5	Pass	
			-10	3.84	-3.161	-0.0038	-2.5 to 2.5	Pass	
			0	3.84	-3.934	-0.0048	-2.5 to 2.5	Pass	
			10	3.84	-7.510	-0.0091	-2.5 to 2.5	Pass	
			30	3.84	-2.418	-0.0029	-2.5 to 2.5	Pass	
			40	3.84	-5.736	-0.0069	-2.5 to 2.5	Pass	
	50	3.84	-5.393	-0.0065	-2.5 to 2.5	Pass			
	836.5	15	0	20	3.6	-9.756	-0.0117	-2.5 to 2.5	Pass
					3.84	-5.164	-0.0062	-2.5 to 2.5	Pass
					4.3	-2.418	-0.0029	-2.5 to 2.5	Pass
				-30	3.84	-4.234	-0.0051	-2.5 to 2.5	Pass
				-20	3.84	-4.306	-0.0051	-2.5 to 2.5	Pass
				-10	3.84	-3.333	-0.0040	-2.5 to 2.5	Pass
				0	3.84	-5.836	-0.0070	-2.5 to 2.5	Pass
10				3.84	-5.107	-0.0061	-2.5 to 2.5	Pass	
30	3.84	-8.469	-0.0101	-2.5 to 2.5	Pass				
40	3.84	-15.979	-0.0191	-2.5 to 2.5	Pass				
50	3.84	-7.396	-0.0088	-2.5 to 2.5	Pass				
847.5	15	0	20	3.6	-5.536	-0.0065	-2.5 to 2.5	Pass	
				3.84	-0.529	-0.0006	-2.5 to 2.5	Pass	



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				4.3	-1.888	-0.0022	-2.5 to 2.5	Pass	
				-30	3.84	-5.794	-0.0068	-2.5 to 2.5	Pass
				-20	3.84	-2.861	-0.0034	-2.5 to 2.5	Pass
				-10	3.84	-5.522	-0.0065	-2.5 to 2.5	Pass
				0	3.84	-3.419	-0.0040	-2.5 to 2.5	Pass
				10	3.84	-4.506	-0.0053	-2.5 to 2.5	Pass
				30	3.84	-4.163	-0.0049	-2.5 to 2.5	Pass
				40	3.84	-5.608	-0.0066	-2.5 to 2.5	Pass
				50	3.84	-4.492	-0.0053	-2.5 to 2.5	Pass



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2.3 B5_5MHz

2.3.1 Test Result

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	3.6	-5.207	-0.0063	-2.5 to 2.5	Pass	
					3.84	-9.928	-0.0120	-2.5 to 2.5	Pass	
					4.3	-6.280	-0.0076	-2.5 to 2.5	Pass	
				-30	3.84	-9.027	-0.0109	-2.5 to 2.5	Pass	
					-20	3.84	-8.068	-0.0098	-2.5 to 2.5	Pass
					-10	3.84	-9.184	-0.0111	-2.5 to 2.5	Pass
				0	0	3.84	-7.210	-0.0087	-2.5 to 2.5	Pass
					10	3.84	-8.125	-0.0098	-2.5 to 2.5	Pass
					30	3.84	-8.268	-0.0100	-2.5 to 2.5	Pass
	50	40	3.84	-4.134	-0.0050	-2.5 to 2.5	Pass			
		50	3.84	-8.483	-0.0103	-2.5 to 2.5	Pass			
		20	3.6	-3.147	-0.0038	-2.5 to 2.5	Pass			
	3.84		-6.967	-0.0083	-2.5 to 2.5	Pass				
	4.3		-2.317	-0.0028	-2.5 to 2.5	Pass				
	-30	3.84	-10.443	-0.0125	-2.5 to 2.5	Pass				
		-20	3.84	-4.578	-0.0055	-2.5 to 2.5	Pass			
		-10	3.84	-8.326	-0.0100	-2.5 to 2.5	Pass			
	0	0	3.84	-4.449	-0.0053	-2.5 to 2.5	Pass			
		10	3.84	-7.281	-0.0087	-2.5 to 2.5	Pass			
		30	3.84	-3.462	-0.0041	-2.5 to 2.5	Pass			
	50	40	3.84	-2.303	-0.0028	-2.5 to 2.5	Pass			
		50	3.84	-8.397	-0.0100	-2.5 to 2.5	Pass			
		20	3.6	-4.735	-0.0056	-2.5 to 2.5	Pass			
	3.84		-11.015	-0.0130	-2.5 to 2.5	Pass				
	4.3		-7.353	-0.0087	-2.5 to 2.5	Pass				
	-30	3.84	-8.569	-0.0101	-2.5 to 2.5	Pass				
		-20	3.84	-6.480	-0.0077	-2.5 to 2.5	Pass			
-10		3.84	-4.134	-0.0049	-2.5 to 2.5	Pass				
0	0	3.84	-8.783	-0.0104	-2.5 to 2.5	Pass				
	10	3.84	-7.153	-0.0085	-2.5 to 2.5	Pass				
	30	3.84	-7.796	-0.0092	-2.5 to 2.5	Pass				
50	40	3.84	-10.042	-0.0119	-2.5 to 2.5	Pass				
	50	3.84	-7.939	-0.0094	-2.5 to 2.5	Pass				
	20	3.6	-7.310	-0.0088	-2.5 to 2.5	Pass				
3.84		-6.280	-0.0076	-2.5 to 2.5	Pass					
4.3		-5.708	-0.0069	-2.5 to 2.5	Pass					
-30	3.84	-4.134	-0.0050	-2.5 to 2.5	Pass					
	-20	3.84	-9.012	-0.0109	-2.5 to 2.5	Pass				
	-10	3.84	-4.635	-0.0056	-2.5 to 2.5	Pass				
0	0	3.84	-6.409	-0.0078	-2.5 to 2.5	Pass				
	10	3.84	-6.452	-0.0078	-2.5 to 2.5	Pass				



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64QAM	836.5	25	0	30	3.84	-4.435	-0.0054	-2.5 to 2.5	Pass
				40	3.84	-4.678	-0.0057	-2.5 to 2.5	Pass
				50	3.84	-3.018	-0.0037	-2.5 to 2.5	Pass
				20	3.6	-4.764	-0.0057	-2.5 to 2.5	Pass
					3.84	-13.332	-0.0159	-2.5 to 2.5	Pass
					4.3	-7.882	-0.0094	-2.5 to 2.5	Pass
				-30	3.84	-6.194	-0.0074	-2.5 to 2.5	Pass
				-20	3.84	-6.938	-0.0083	-2.5 to 2.5	Pass
				-10	3.84	-8.154	-0.0097	-2.5 to 2.5	Pass
				0	3.84	-9.284	-0.0111	-2.5 to 2.5	Pass
	10	3.84	-8.254	-0.0099	-2.5 to 2.5	Pass			
	30	3.84	-0.687	-0.0008	-2.5 to 2.5	Pass			
	40	3.84	-6.509	-0.0078	-2.5 to 2.5	Pass			
	50	3.84	-5.393	-0.0064	-2.5 to 2.5	Pass			
	846.5	25	0	20	3.6	-6.008	-0.0071	-2.5 to 2.5	Pass
					3.84	-4.377	-0.0052	-2.5 to 2.5	Pass
					4.3	-5.965	-0.0070	-2.5 to 2.5	Pass
				-30	3.84	-9.141	-0.0108	-2.5 to 2.5	Pass
				-20	3.84	-10.815	-0.0128	-2.5 to 2.5	Pass
				-10	3.84	-6.495	-0.0077	-2.5 to 2.5	Pass
0				3.84	-10.114	-0.0119	-2.5 to 2.5	Pass	
10				3.84	-9.613	-0.0114	-2.5 to 2.5	Pass	
30				3.84	-7.882	-0.0093	-2.5 to 2.5	Pass	
40				3.84	-9.642	-0.0114	-2.5 to 2.5	Pass	
50	3.84	-11.330	-0.0134	-2.5 to 2.5	Pass				
826.5	25	0	20	3.6	-3.562	-0.0043	-2.5 to 2.5	Pass	
				3.84	-4.420	-0.0053	-2.5 to 2.5	Pass	
				4.3	-6.065	-0.0073	-2.5 to 2.5	Pass	
			-30	3.84	-6.995	-0.0085	-2.5 to 2.5	Pass	
			-20	3.84	-4.792	-0.0058	-2.5 to 2.5	Pass	
			-10	3.84	-4.435	-0.0054	-2.5 to 2.5	Pass	
			0	3.84	-6.123	-0.0074	-2.5 to 2.5	Pass	
			10	3.84	-5.836	-0.0071	-2.5 to 2.5	Pass	
			30	3.84	-7.782	-0.0094	-2.5 to 2.5	Pass	
			40	3.84	-8.082	-0.0098	-2.5 to 2.5	Pass	
	50	3.84	-9.198	-0.0111	-2.5 to 2.5	Pass			
	836.5	25	0	20	3.6	-6.881	-0.0082	-2.5 to 2.5	Pass
					3.84	-5.393	-0.0064	-2.5 to 2.5	Pass
					4.3	-6.695	-0.0080	-2.5 to 2.5	Pass
				-30	3.84	-3.734	-0.0045	-2.5 to 2.5	Pass
				-20	3.84	-4.220	-0.0050	-2.5 to 2.5	Pass
				-10	3.84	-3.161	-0.0038	-2.5 to 2.5	Pass
				0	3.84	-6.094	-0.0073	-2.5 to 2.5	Pass
10				3.84	-4.535	-0.0054	-2.5 to 2.5	Pass	
30	3.84	-6.952	-0.0083	-2.5 to 2.5	Pass				
40	3.84	-8.354	-0.0100	-2.5 to 2.5	Pass				
50	3.84	0.014	0.0000	-2.5 to 2.5	Pass				
846.5	25	0	20	3.6	10.386	0.0123	-2.5 to 2.5	Pass	
				3.84	-7.067	-0.0083	-2.5 to 2.5	Pass	



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				4.3	-4.835	-0.0057	-2.5 to 2.5	Pass	
				-30	3.84	-8.526	-0.0101	-2.5 to 2.5	Pass
				-20	3.84	-9.413	-0.0111	-2.5 to 2.5	Pass
				-10	3.84	-1.245	-0.0015	-2.5 to 2.5	Pass
				0	3.84	-6.638	-0.0078	-2.5 to 2.5	Pass
				10	3.84	-10.099	-0.0119	-2.5 to 2.5	Pass
				30	3.84	-4.992	-0.0059	-2.5 to 2.5	Pass
				40	3.84	-7.167	-0.0085	-2.5 to 2.5	Pass
				50	3.84	-7.267	-0.0086	-2.5 to 2.5	Pass



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2.4 B5_10MHz

2.4.1 Test Result

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	3.6	-7.310	-0.0088	-2.5 to 2.5	Pass
					3.84	-6.380	-0.0077	-2.5 to 2.5	Pass
					4.3	-4.048	-0.0049	-2.5 to 2.5	Pass
				-30	3.84	-8.698	-0.0105	-2.5 to 2.5	Pass
				-20	3.84	-6.967	-0.0084	-2.5 to 2.5	Pass
				-10	3.84	-7.796	-0.0094	-2.5 to 2.5	Pass
				0	3.84	-6.409	-0.0077	-2.5 to 2.5	Pass
				10	3.84	-6.509	-0.0079	-2.5 to 2.5	Pass
				30	3.84	-7.410	-0.0089	-2.5 to 2.5	Pass
	40	3.84	-9.942	-0.0120	-2.5 to 2.5	Pass			
	50	3.84	-6.766	-0.0082	-2.5 to 2.5	Pass			
	836.5	50	0	20	3.6	-6.180	-0.0074	-2.5 to 2.5	Pass
					3.84	-6.723	-0.0080	-2.5 to 2.5	Pass
					4.3	-8.426	-0.0101	-2.5 to 2.5	Pass
				-30	3.84	-5.350	-0.0064	-2.5 to 2.5	Pass
				-20	3.84	-7.052	-0.0084	-2.5 to 2.5	Pass
				-10	3.84	-8.898	-0.0106	-2.5 to 2.5	Pass
				0	3.84	-7.296	-0.0087	-2.5 to 2.5	Pass
				10	3.84	-8.483	-0.0101	-2.5 to 2.5	Pass
				30	3.84	-6.909	-0.0083	-2.5 to 2.5	Pass
	40	3.84	-8.984	-0.0107	-2.5 to 2.5	Pass			
	50	3.84	-7.539	-0.0090	-2.5 to 2.5	Pass			
	844	50	0	20	3.6	-7.067	-0.0084	-2.5 to 2.5	Pass
					3.84	-8.340	-0.0099	-2.5 to 2.5	Pass
					4.3	-10.057	-0.0119	-2.5 to 2.5	Pass
				-30	3.84	-7.753	-0.0092	-2.5 to 2.5	Pass
				-20	3.84	-7.825	-0.0093	-2.5 to 2.5	Pass
-10				3.84	-7.010	-0.0083	-2.5 to 2.5	Pass	
0				3.84	-8.368	-0.0099	-2.5 to 2.5	Pass	
10				3.84	-8.426	-0.0100	-2.5 to 2.5	Pass	
30				3.84	-9.770	-0.0116	-2.5 to 2.5	Pass	
40	3.84	-9.027	-0.0107	-2.5 to 2.5	Pass				
50	3.84	-7.281	-0.0086	-2.5 to 2.5	Pass				
16QAM	829	50	0	20	3.6	-8.111	-0.0098	-2.5 to 2.5	Pass
					3.84	-8.426	-0.0102	-2.5 to 2.5	Pass
					4.3	-8.597	-0.0104	-2.5 to 2.5	Pass
				-30	3.84	-5.879	-0.0071	-2.5 to 2.5	Pass
				-20	3.84	-6.051	-0.0073	-2.5 to 2.5	Pass
				-10	3.84	-8.955	-0.0108	-2.5 to 2.5	Pass
				0	3.84	-5.593	-0.0067	-2.5 to 2.5	Pass
10	3.84	-1.702	-0.0021	-2.5 to 2.5	Pass				



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64QAM	836.5	50	0	30	3.84	-9.699	-0.0117	-2.5 to 2.5	Pass
				40	3.84	-5.422	-0.0065	-2.5 to 2.5	Pass
				50	3.84	-7.081	-0.0085	-2.5 to 2.5	Pass
				20	3.6	-6.065	-0.0073	-2.5 to 2.5	Pass
					3.84	-6.251	-0.0075	-2.5 to 2.5	Pass
					4.3	-8.397	-0.0100	-2.5 to 2.5	Pass
				-30	3.84	-10.543	-0.0126	-2.5 to 2.5	Pass
				-20	3.84	-7.324	-0.0088	-2.5 to 2.5	Pass
				-10	3.84	-7.811	-0.0093	-2.5 to 2.5	Pass
				0	3.84	-4.220	-0.0050	-2.5 to 2.5	Pass
	10	3.84	-6.938	-0.0083	-2.5 to 2.5	Pass			
	30	3.84	-12.617	-0.0151	-2.5 to 2.5	Pass			
	40	3.84	-3.762	-0.0045	-2.5 to 2.5	Pass			
	50	3.84	-6.580	-0.0079	-2.5 to 2.5	Pass			
	844	50	0	20	3.6	-3.405	-0.0040	-2.5 to 2.5	Pass
					3.84	-6.080	-0.0072	-2.5 to 2.5	Pass
					4.3	-4.191	-0.0050	-2.5 to 2.5	Pass
				-30	3.84	-5.851	-0.0069	-2.5 to 2.5	Pass
				-20	3.84	-5.879	-0.0070	-2.5 to 2.5	Pass
				-10	3.84	-11.601	-0.0137	-2.5 to 2.5	Pass
0				3.84	-8.740	-0.0104	-2.5 to 2.5	Pass	
10				3.84	-8.726	-0.0103	-2.5 to 2.5	Pass	
30				3.84	-4.263	-0.0051	-2.5 to 2.5	Pass	
40				3.84	-6.566	-0.0078	-2.5 to 2.5	Pass	
50	3.84	-6.351	-0.0075	-2.5 to 2.5	Pass				
829	50	0	20	3.6	-7.553	-0.0091	-2.5 to 2.5	Pass	
				3.84	-5.879	-0.0071	-2.5 to 2.5	Pass	
				4.3	-7.625	-0.0092	-2.5 to 2.5	Pass	
			-30	3.84	-5.794	-0.0070	-2.5 to 2.5	Pass	
			-20	3.84	-7.238	-0.0087	-2.5 to 2.5	Pass	
			-10	3.84	-5.393	-0.0065	-2.5 to 2.5	Pass	
			0	3.84	-5.522	-0.0067	-2.5 to 2.5	Pass	
			10	3.84	-7.868	-0.0095	-2.5 to 2.5	Pass	
			30	3.84	-4.334	-0.0052	-2.5 to 2.5	Pass	
			40	3.84	-6.652	-0.0080	-2.5 to 2.5	Pass	
	50	3.84	-2.646	-0.0032	-2.5 to 2.5	Pass			
	836.5	50	0	20	3.6	-9.685	-0.0116	-2.5 to 2.5	Pass
					3.84	-4.148	-0.0050	-2.5 to 2.5	Pass
					4.3	-7.267	-0.0087	-2.5 to 2.5	Pass
				-30	3.84	-6.351	-0.0076	-2.5 to 2.5	Pass
				-20	3.84	-10.228	-0.0122	-2.5 to 2.5	Pass
				-10	3.84	-2.604	-0.0031	-2.5 to 2.5	Pass
				0	3.84	-8.912	-0.0107	-2.5 to 2.5	Pass
10				3.84	-6.123	-0.0073	-2.5 to 2.5	Pass	
30	3.84	-7.353	-0.0088	-2.5 to 2.5	Pass				
40	3.84	-0.973	-0.0012	-2.5 to 2.5	Pass				
50	3.84	-8.025	-0.0096	-2.5 to 2.5	Pass				
844	50	0	20	3.6	-8.368	-0.0099	-2.5 to 2.5	Pass	
				3.84	-5.779	-0.0068	-2.5 to 2.5	Pass	



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				4.3	-5.651	-0.0067	-2.5 to 2.5	Pass	
				-30	3.84	-5.078	-0.0060	-2.5 to 2.5	Pass
				-20	3.84	-2.475	-0.0029	-2.5 to 2.5	Pass
				-10	3.84	-4.220	-0.0050	-2.5 to 2.5	Pass
				0	3.84	-7.725	-0.0092	-2.5 to 2.5	Pass
				10	3.84	-4.077	-0.0048	-2.5 to 2.5	Pass
				30	3.84	-6.852	-0.0081	-2.5 to 2.5	Pass
				40	3.84	-3.834	-0.0045	-2.5 to 2.5	Pass
				50	3.84	-6.151	-0.0073	-2.5 to 2.5	Pass



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3. Field Strength of Spurious Radiation

Test Band = Band 5 _ TM1
Test Channel = low

Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamp_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
1649	26.31	4.27	38.41	-60.57	-58.28	-13	-45.28	Horizontal
2473.5	28.9	5.15	37.24	-60.38	-52.68	-13	-39.68	Horizontal
3298	31.24	5.98	36.13	-61.79	-49.34	-13	-36.34	Horizontal
Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamp_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
1649	26.31	4.27	38.41	-60.48	-58.19	-13	-45.19	Vertical
2473.5	28.9	5.15	37.24	-60.16	-52.46	-13	-39.46	Vertical
3298	31.24	5.98	36.13	-61.9	-49.45	-13	-36.45	Vertical



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Test Band = Band 5 _ TM1
Test Channel = mid

Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamp_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
1664	26.27	4.28	38.41	-60.27	-58	-13	-45	Horizontal
2496	28.9	5.17	37.19	-60.55	-53.07	-13	-40.07	Horizontal
3328	31.7	6.01	36.13	-61.69	-48.77	-13	-35.77	Horizontal
Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamp_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
1664	26.27	4.28	38.41	-60.91	-58.64	-13	-45.64	Vertical
2496	28.9	5.17	37.19	-60.53	-53.05	-13	-40.05	Vertical
3328	31.7	6.01	36.13	-61.38	-48.46	-13	-35.46	Vertical



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Test Band = Band 5 _ TM1
Test Channel = high

Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamp_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
1679	26.24	4.3	38.41	-60.53	-58.25	-13	-45.25	Horizontal
2518.5	29.05	5.19	37.14	-60.85	-53.29	-13	-40.29	Horizontal
3358	32.15	6.05	36.12	-61.38	-47.97	-13	-34.97	Horizontal
Freq (MHz)	LISN_Factor (dB)	Cable_Loss (dB)	Preamp_Gain (dB)	Read_Level (dBm)	Level (dBm)	Limit_Line (dBm)	Over -13DBM	Polarity
1679	26.24	4.3	38.41	-60.57	-58.29	-13	-45.29	Vertical
2518.5	29.05	5.19	37.14	-59.29	-51.73	-13	-38.73	Vertical
3358	32.15	6.05	36.12	-61.34	-47.93	-13	-34.93	Vertical

Remark:

1) All antennas of RSE are tested, and only the worst data is presented.



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4. 99% & 26dB Bandwidth

4.1 Band5_OBW

4.1.1 Test Result

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	1.110	/	Pass
		836.5	6	0	1.113	/	Pass
		848.3	6	0	1.113	/	Pass
	16QAM	824.7	6	0	1.103	/	Pass
		836.5	6	0	1.105	/	Pass
		848.3	6	0	1.113	/	Pass
	64QAM	824.7	6	0	1.117	/	Pass
		836.5	6	0	1.113	/	Pass
		848.3	6	0	1.109	/	Pass
3	QPSK	825.5	15	0	2.725	/	Pass
		836.5	15	0	2.728	/	Pass
		847.5	15	0	2.733	/	Pass
	16QAM	825.5	15	0	2.727	/	Pass
		836.5	15	0	2.724	/	Pass
		847.5	15	0	2.721	/	Pass
	64QAM	825.5	15	0	2.731	/	Pass
		836.5	15	0	2.726	/	Pass
		847.5	15	0	2.724	/	Pass
5	QPSK	826.5	25	0	4.544	/	Pass
		836.5	25	0	4.538	/	Pass
		846.5	25	0	4.533	/	Pass
	16QAM	826.5	25	0	4.531	/	Pass
		836.5	25	0	4.553	/	Pass
		846.5	25	0	4.536	/	Pass
	64QAM	826.5	25	0	4.527	/	Pass
		836.5	25	0	4.536	/	Pass
		846.5	25	0	4.548	/	Pass
10	QPSK	829	50	0	9.036	/	Pass
		836.5	50	0	9.072	/	Pass
		844	50	0	9.062	/	Pass
	16QAM	829	50	0	9.048	/	Pass
		836.5	50	0	9.045	/	Pass
		844	50	0	9.054	/	Pass
	64QAM	829	50	0	9.052	/	Pass
		836.5	50	0	9.077	/	Pass
		844	50	0	9.086	/	Pass



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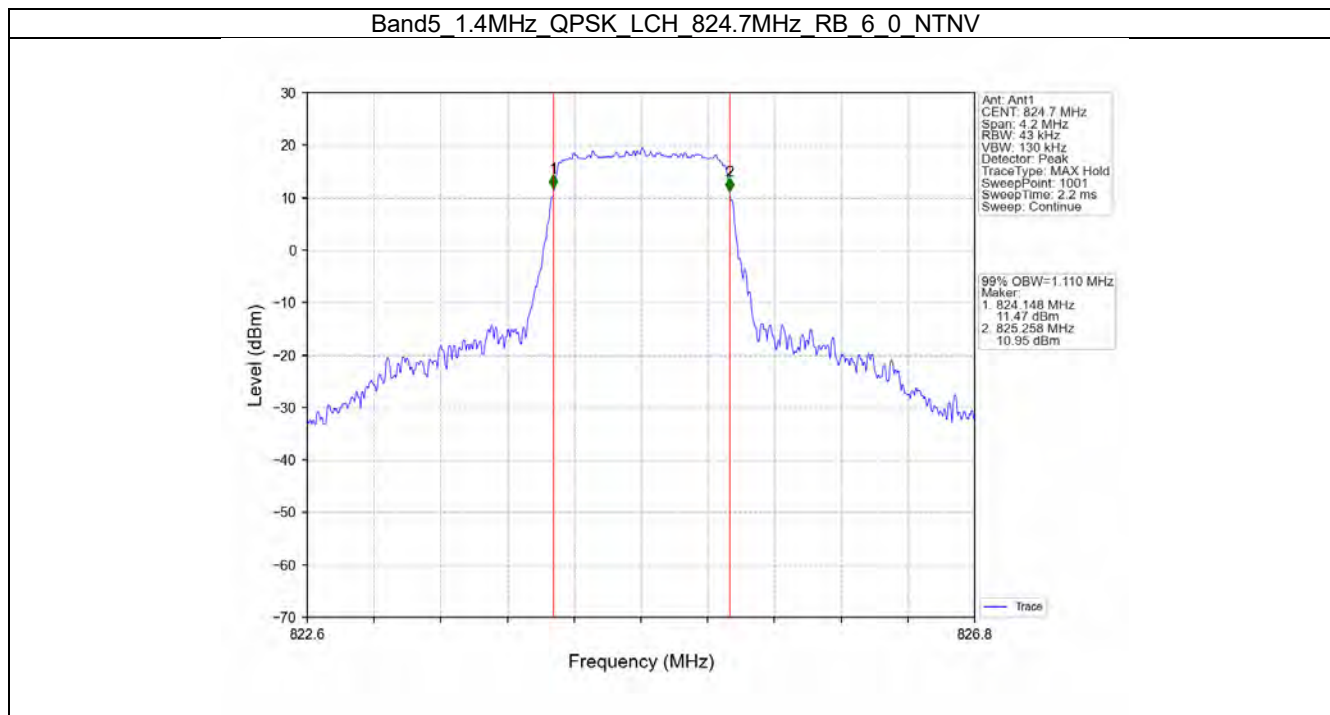
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4.1.2 Test Graph



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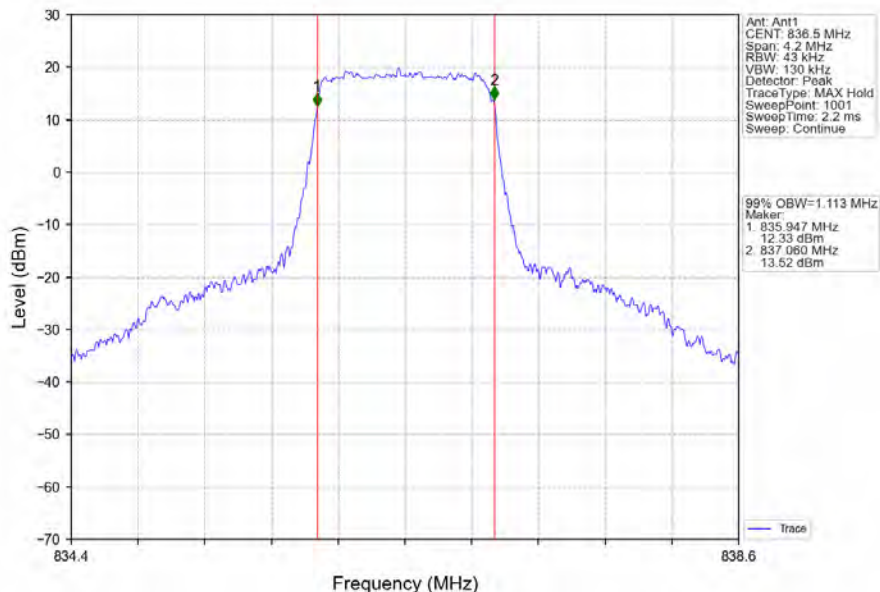
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Band5 1.4MHz QPSK MCH_836.5MHz RB_6_0 NTN



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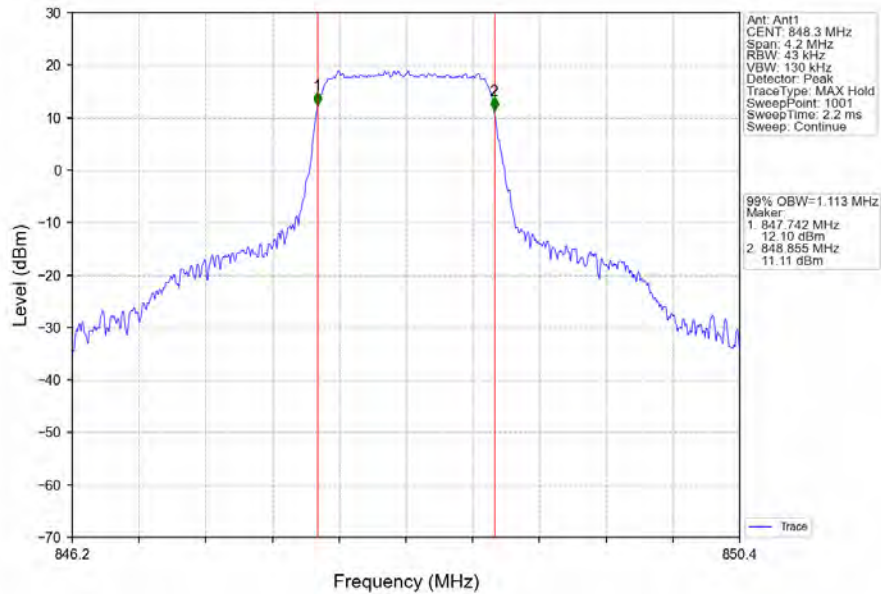
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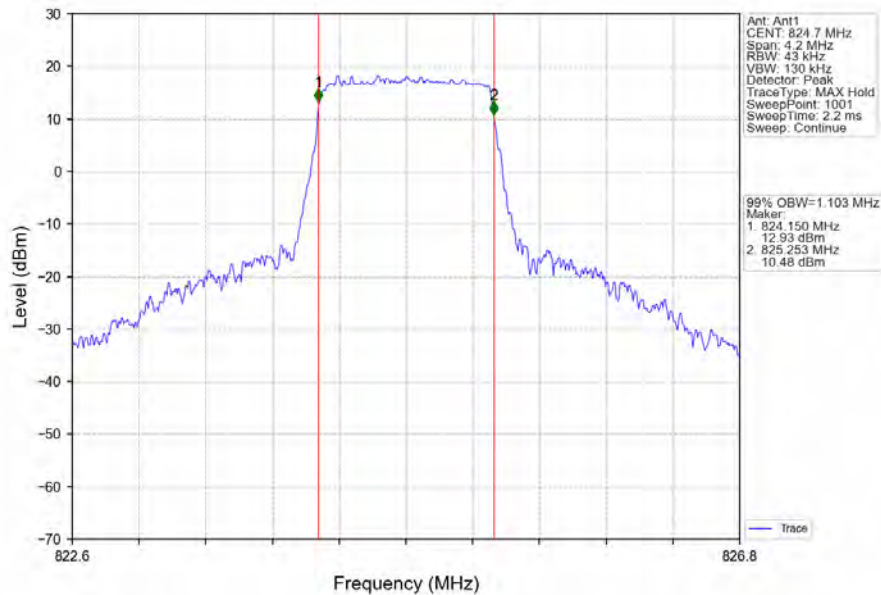
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Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



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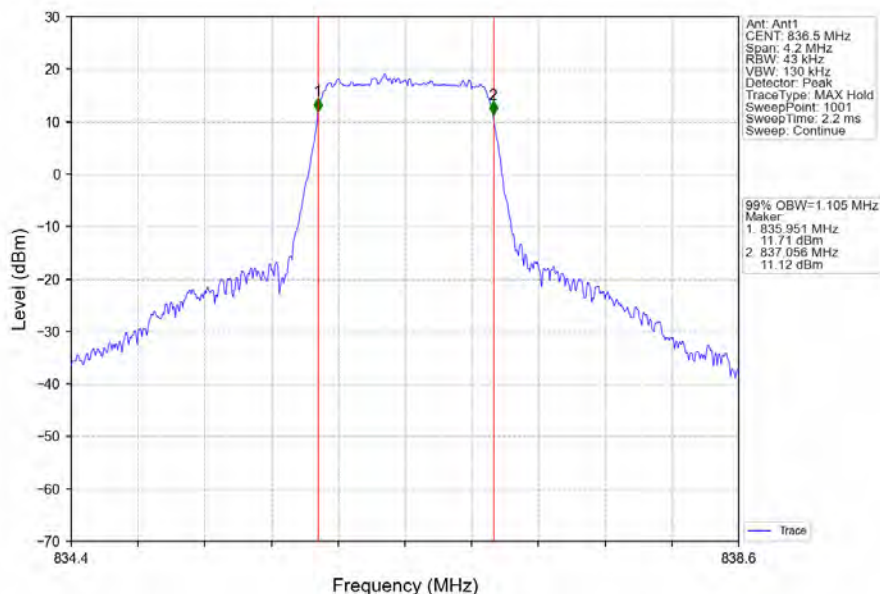
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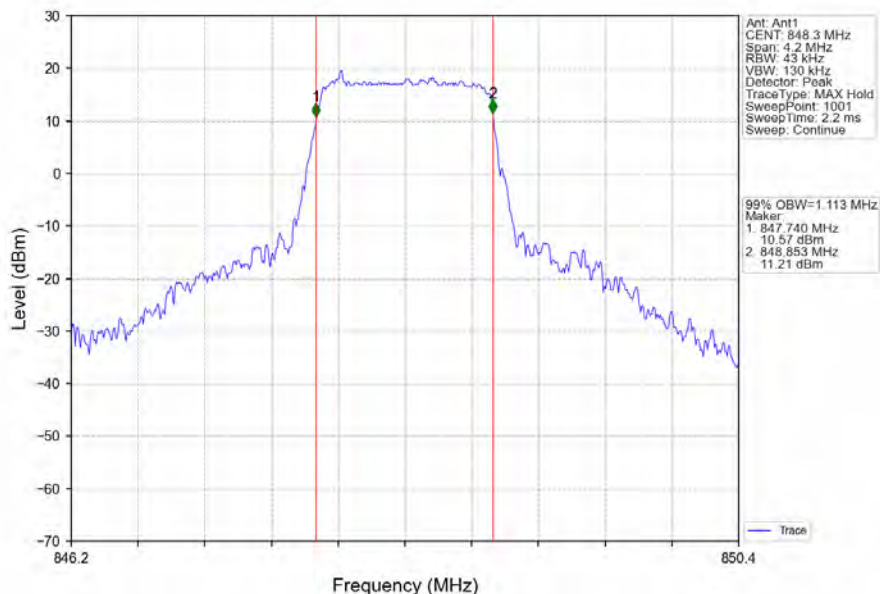
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Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTV



Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTV



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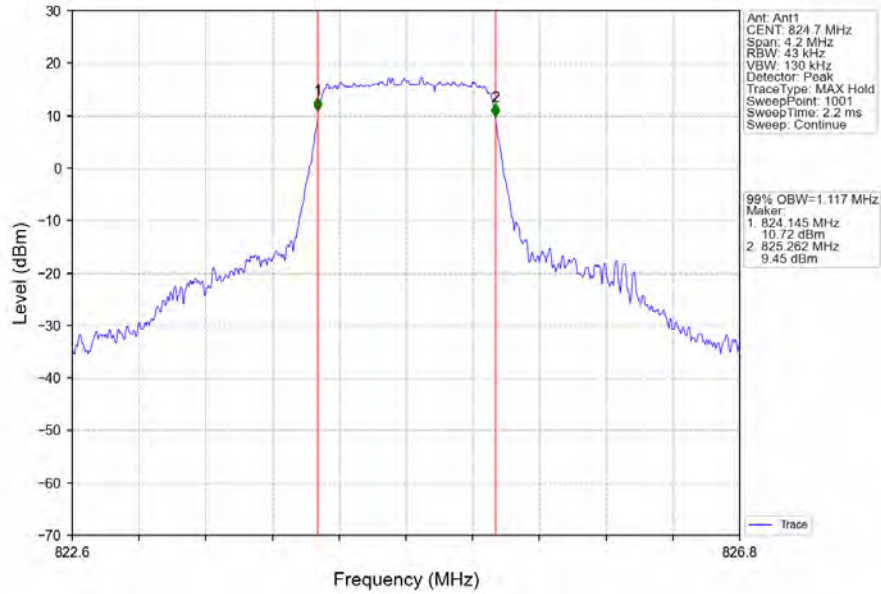
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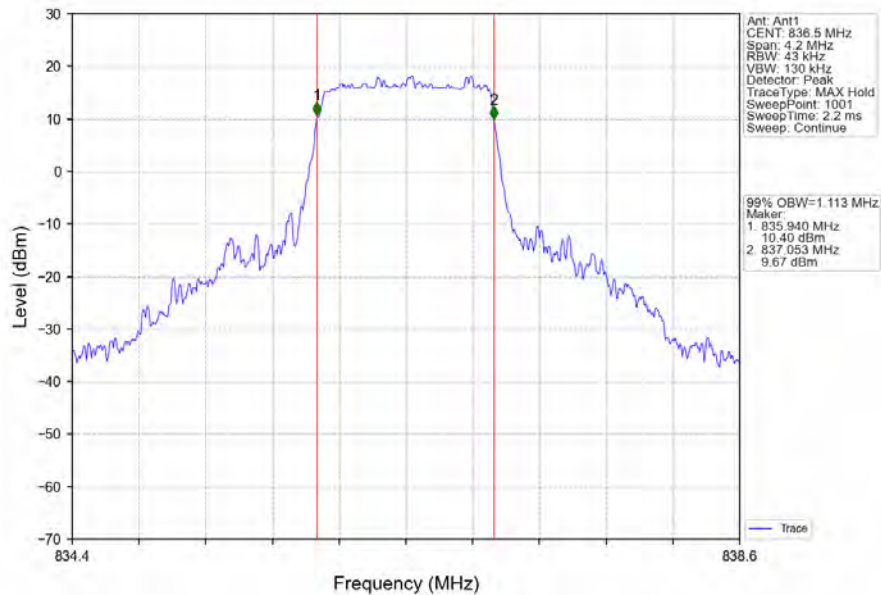
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Band5_1.4MHz_64QAM_LCH_824.7MHz_RB_6_0_NTNV



Band5_1.4MHz_64QAM_MCH_836.5MHz_RB_6_0_NTNV



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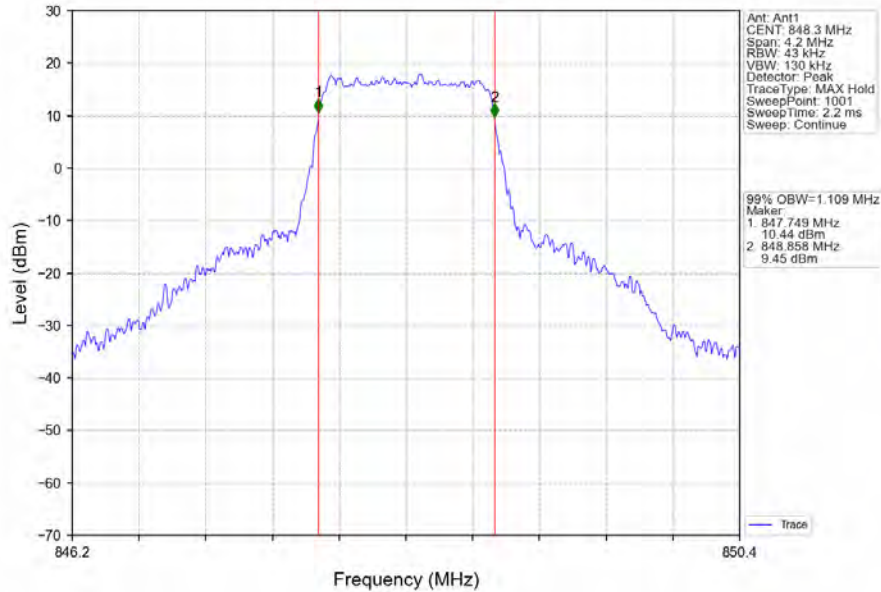
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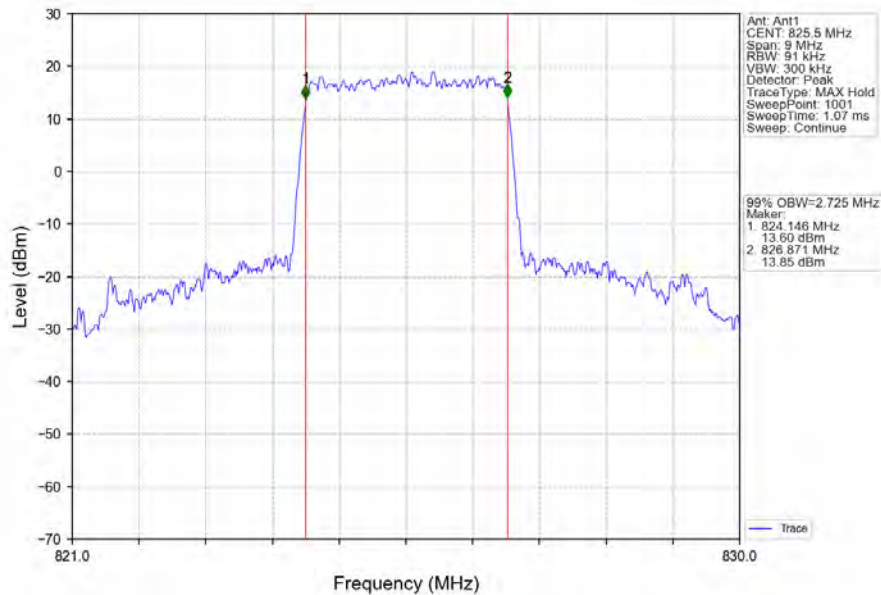
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Band5_1.4MHz_64QAM_HCH_848.3MHz_RB_6_0_NTNV



Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



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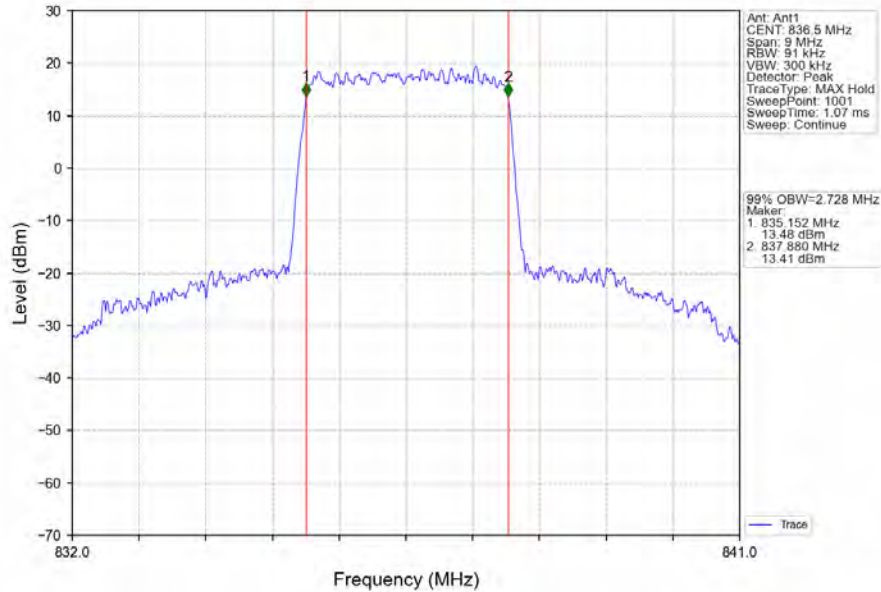
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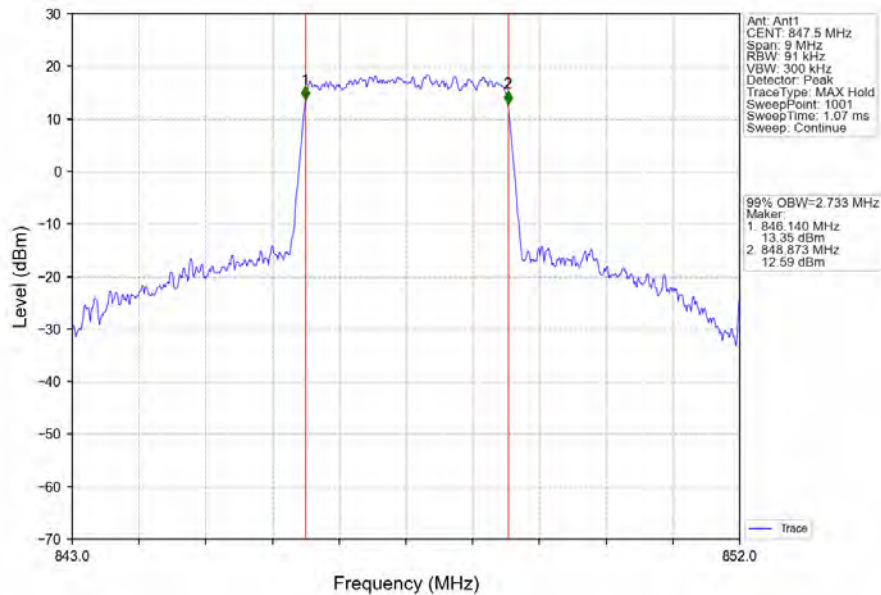
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Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



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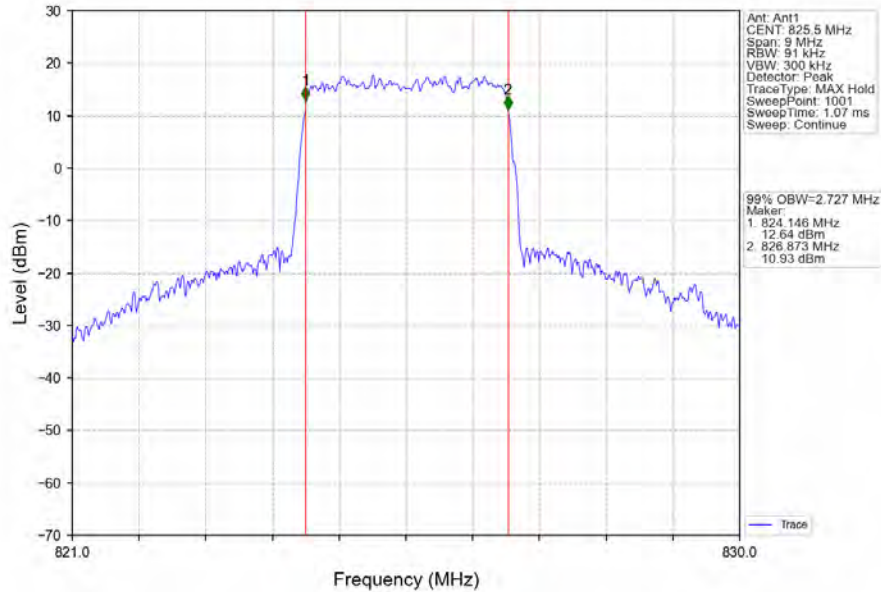
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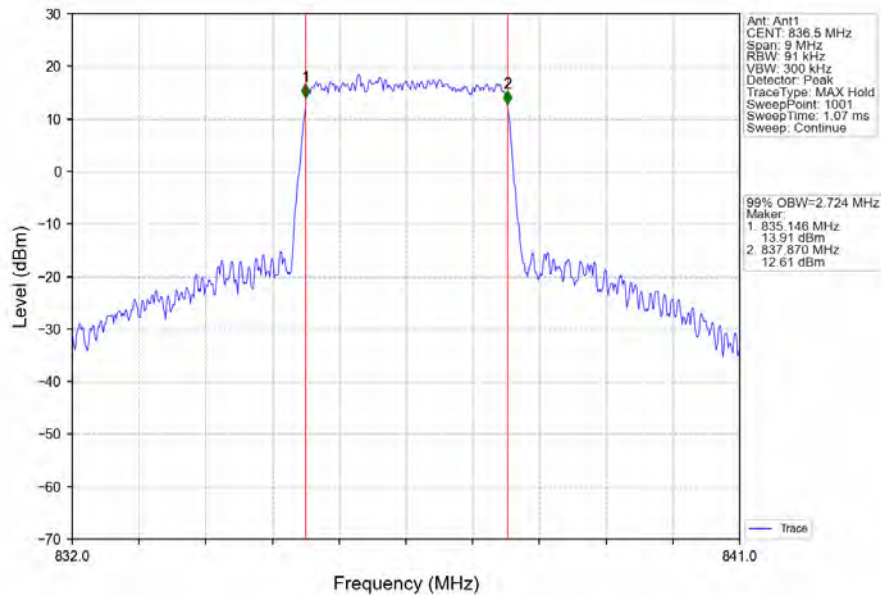
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Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



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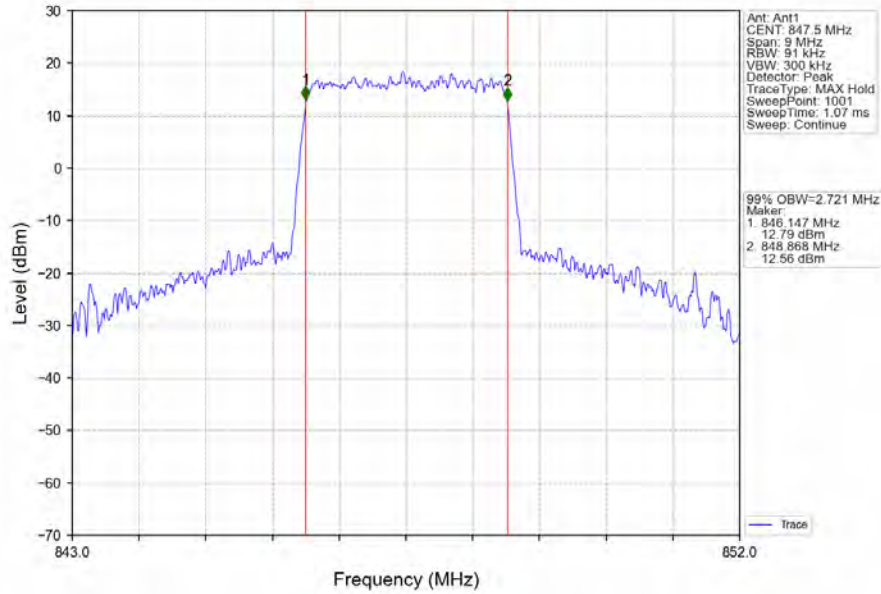
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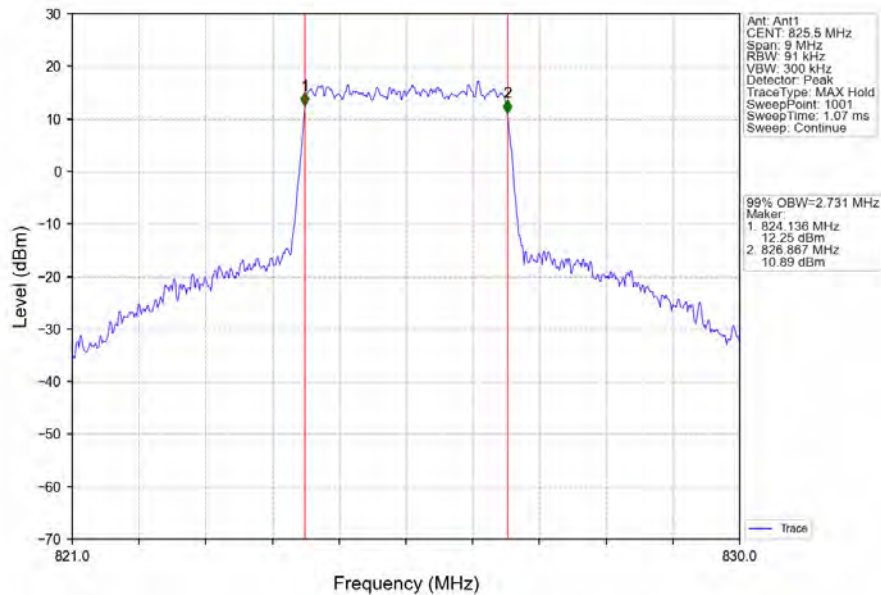
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Band5_3MHz_64QAM_LCH_825.5MHz_RB_15_0_NTNV



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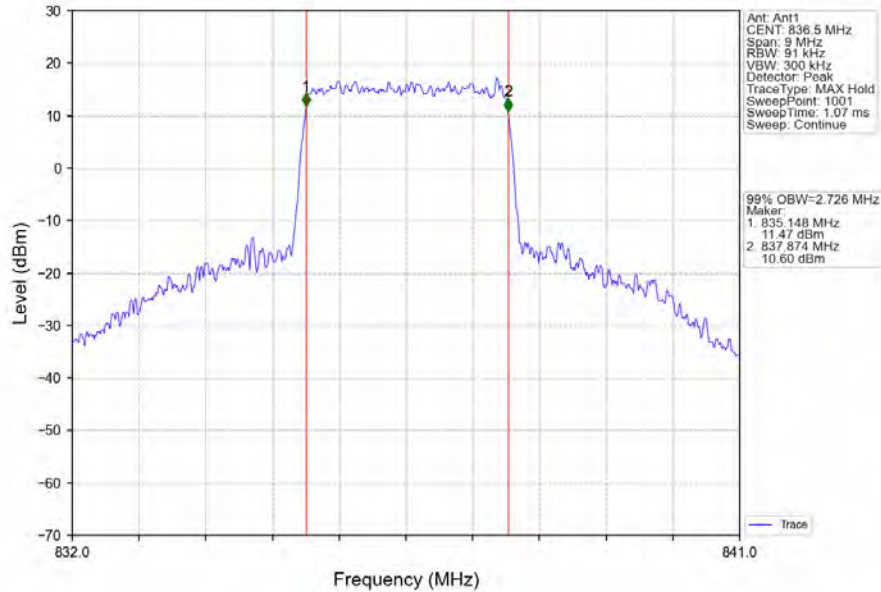
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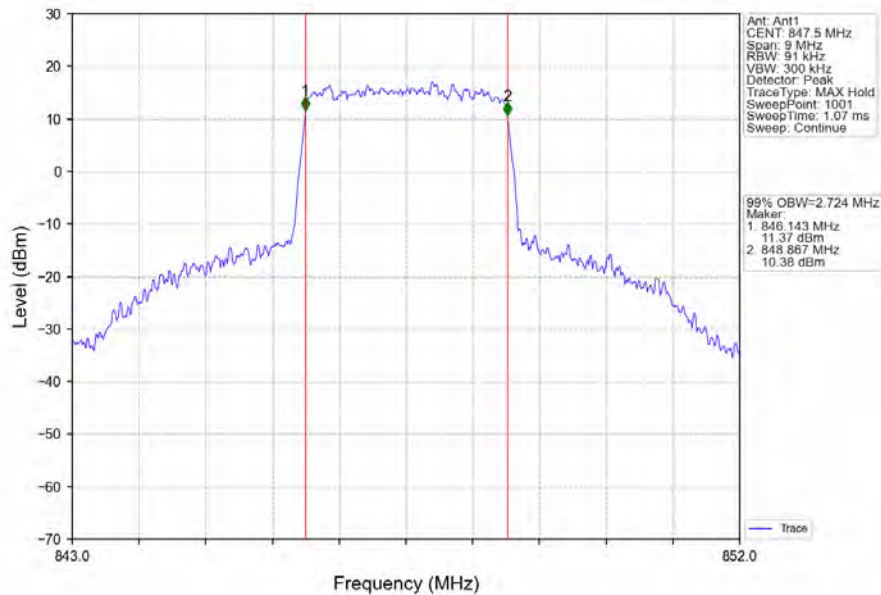
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Band5_3MHz_64QAM_HCH_847.5MHz_RB_15_0_NTNV



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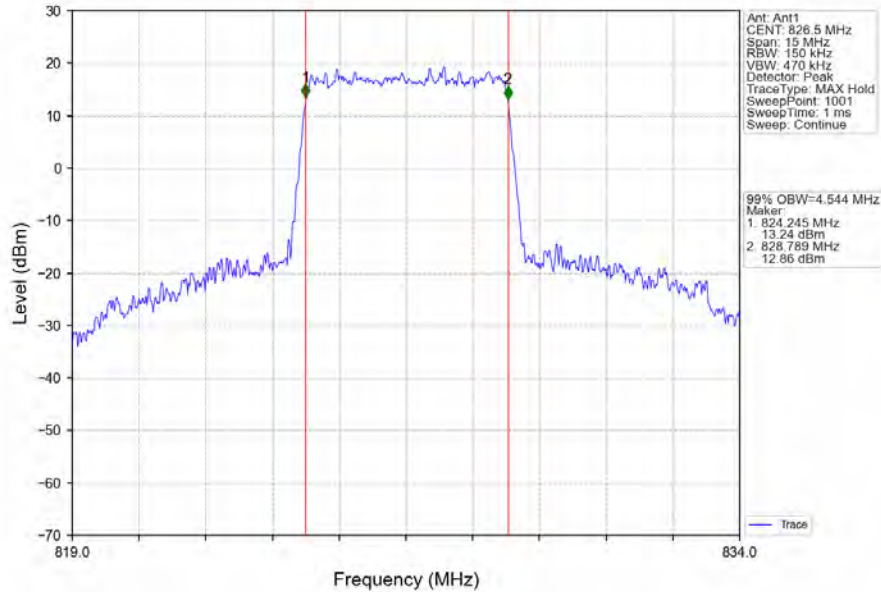
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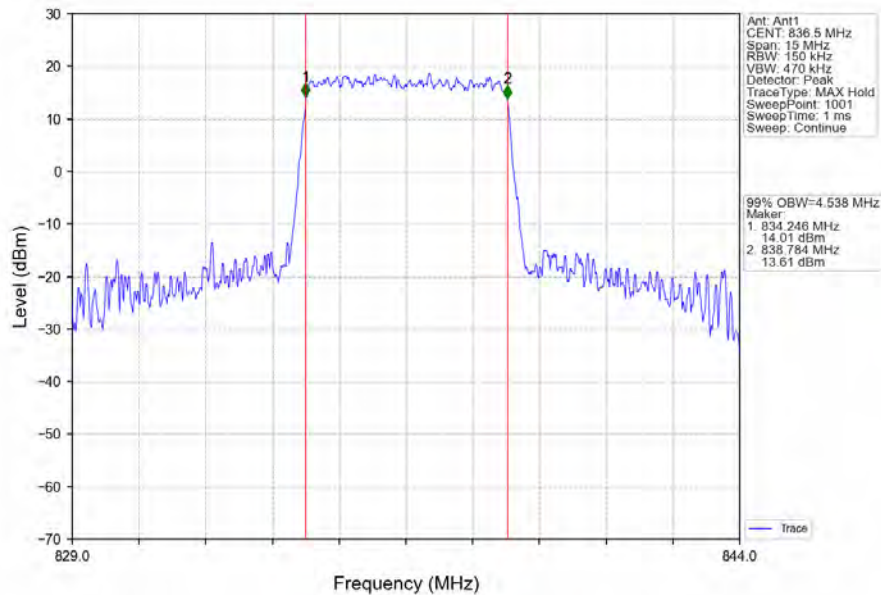
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Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



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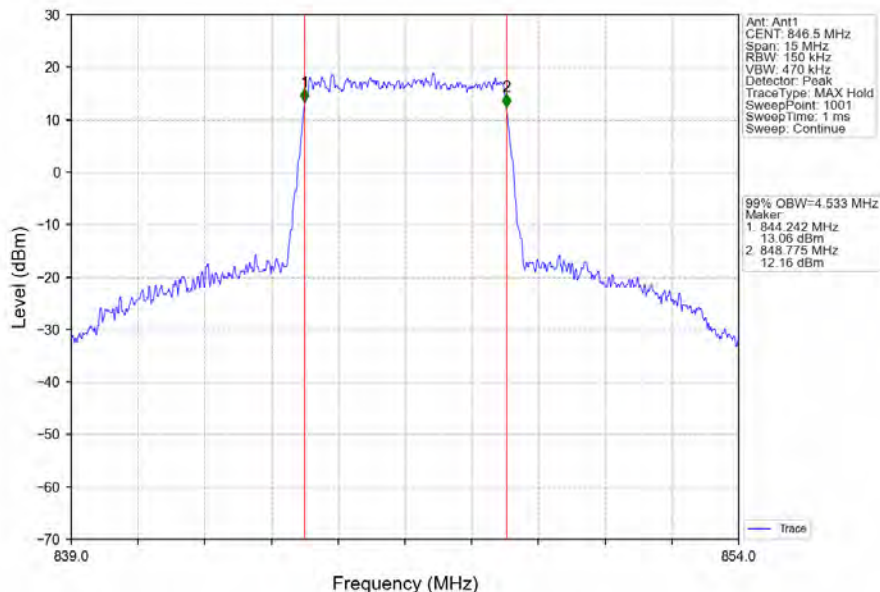
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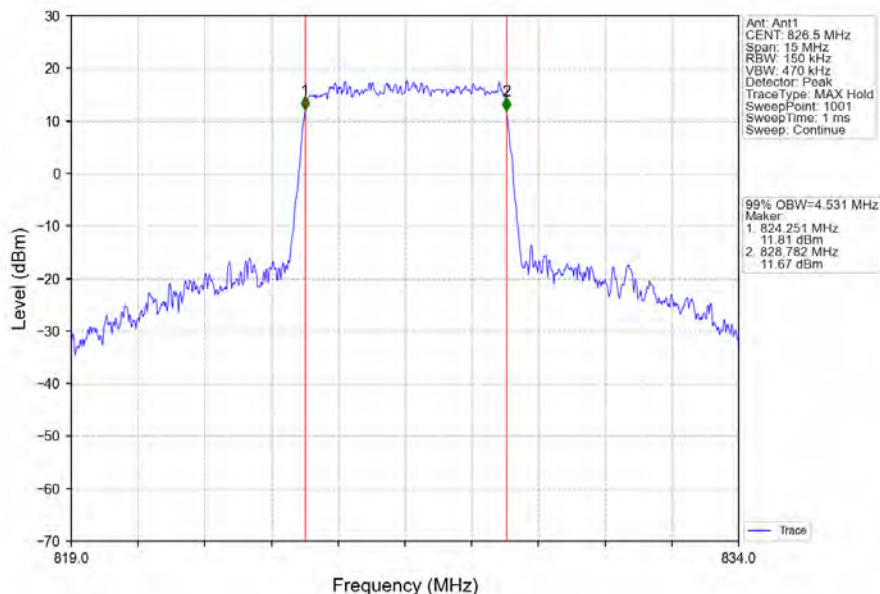
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Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



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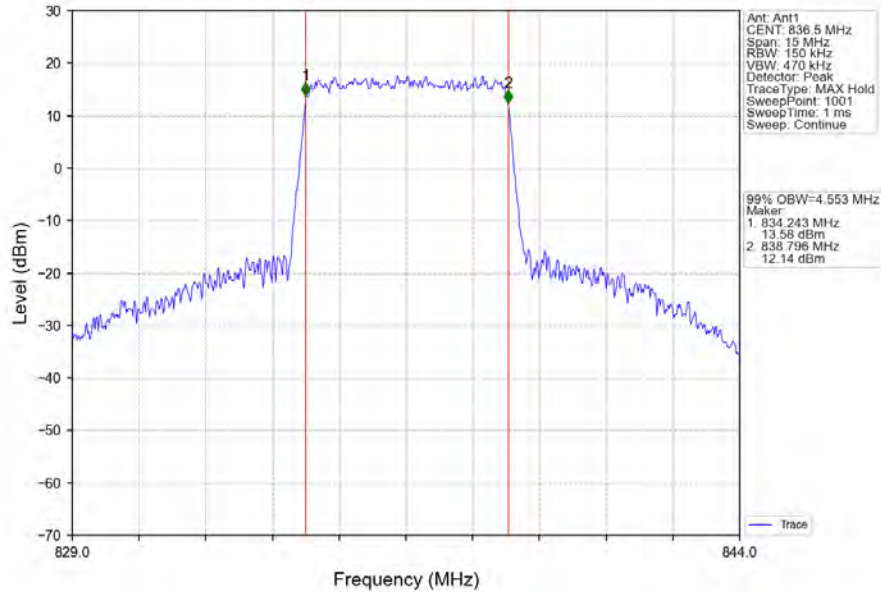
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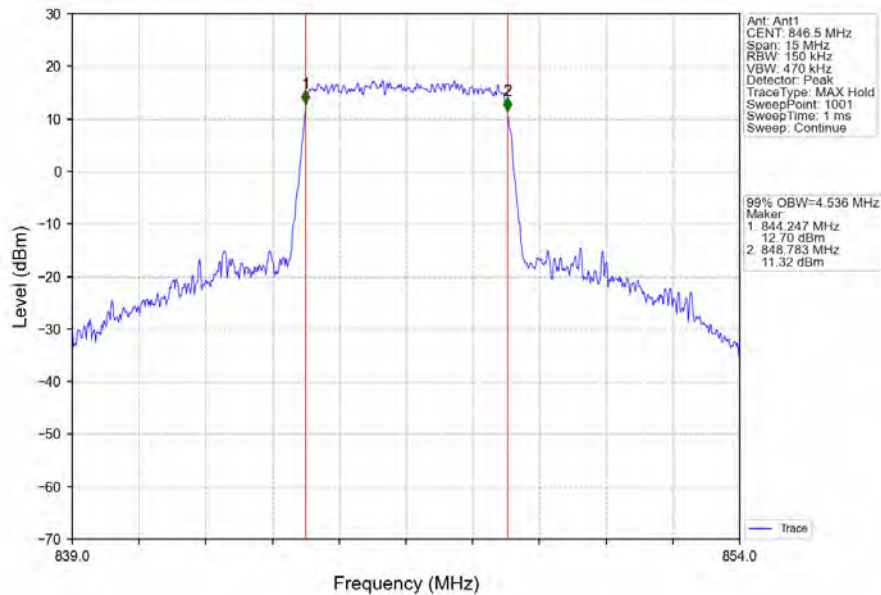
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Band5_5MHz_16QAM_MCH_836.5MHz_RB_25_0_NTNV



Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



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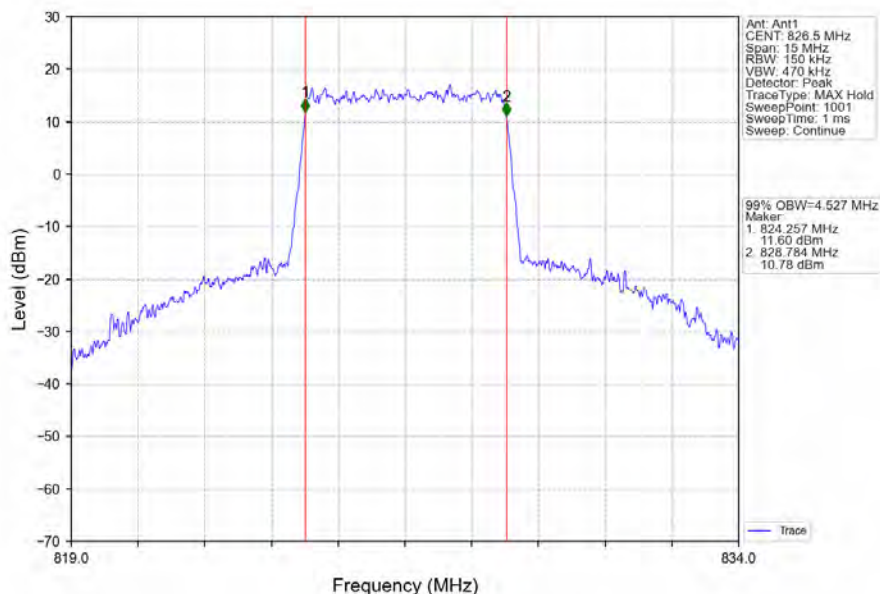
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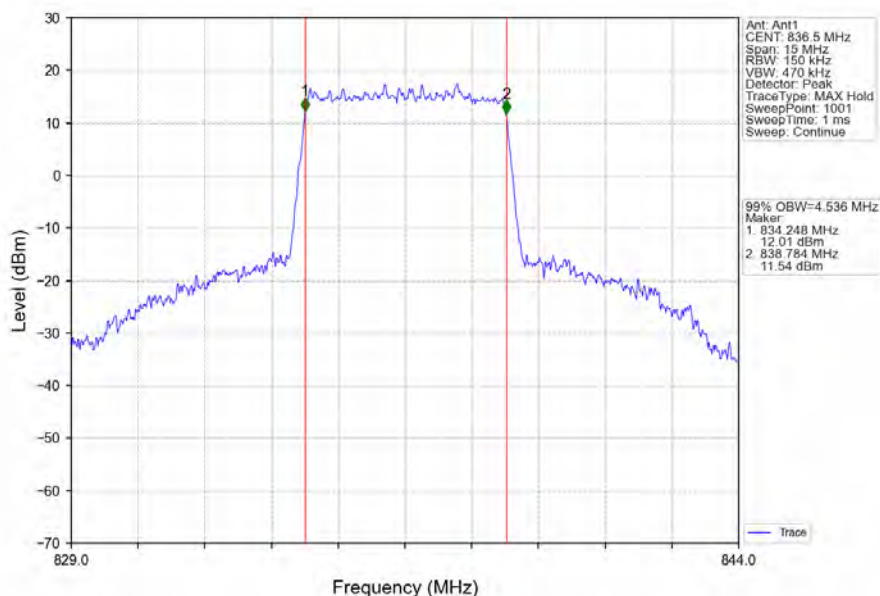
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Band5_5MHz_64QAM_LCH_826.5MHz_RB_25_0_NTNV



Band5_5MHz_64QAM_MCH_836.5MHz_RB_25_0_NTNV



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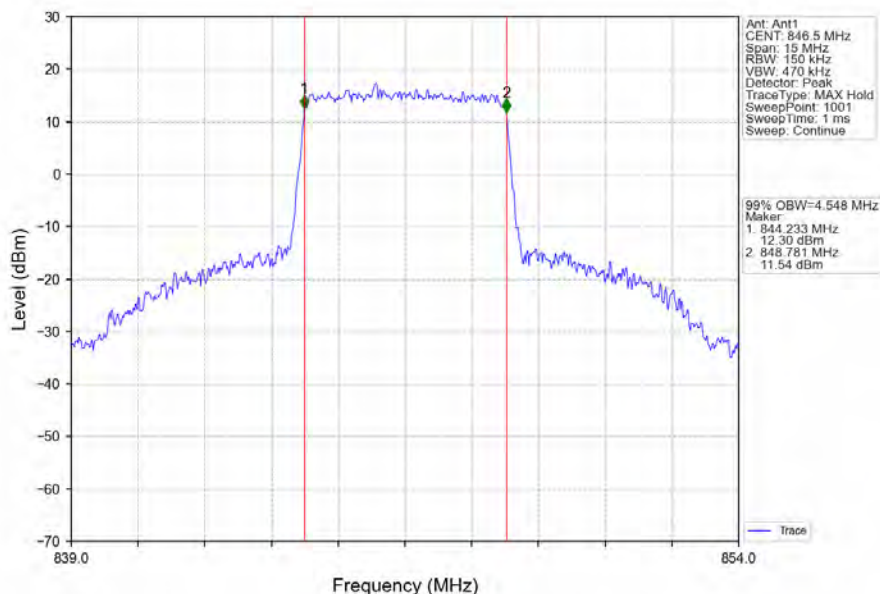
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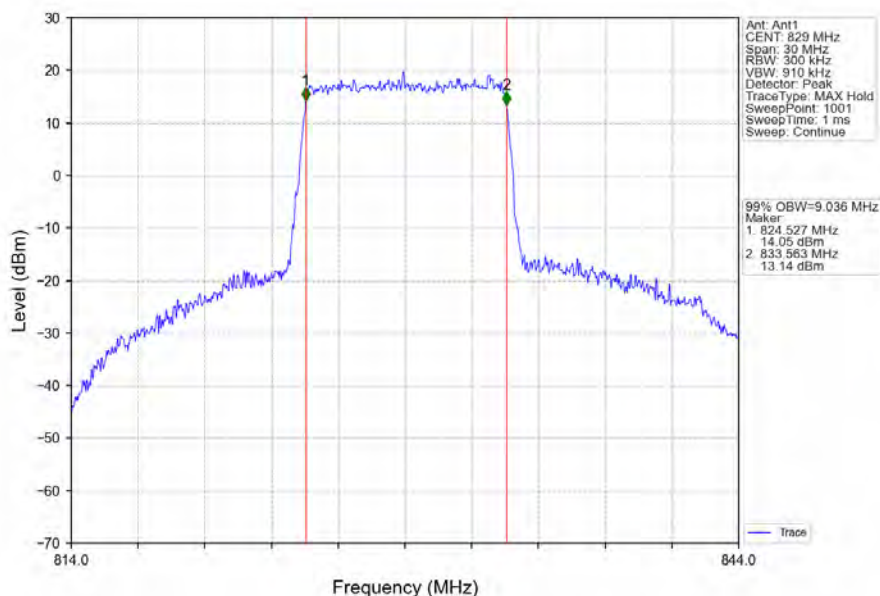
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Band5_5MHz_64QAM_HCH_846.5MHz_RB_25_0_NTNV



Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



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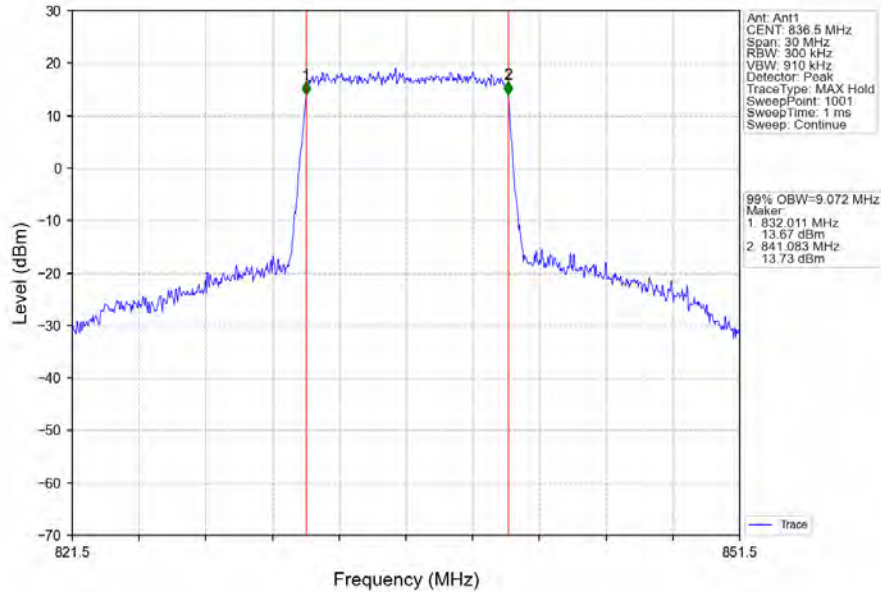
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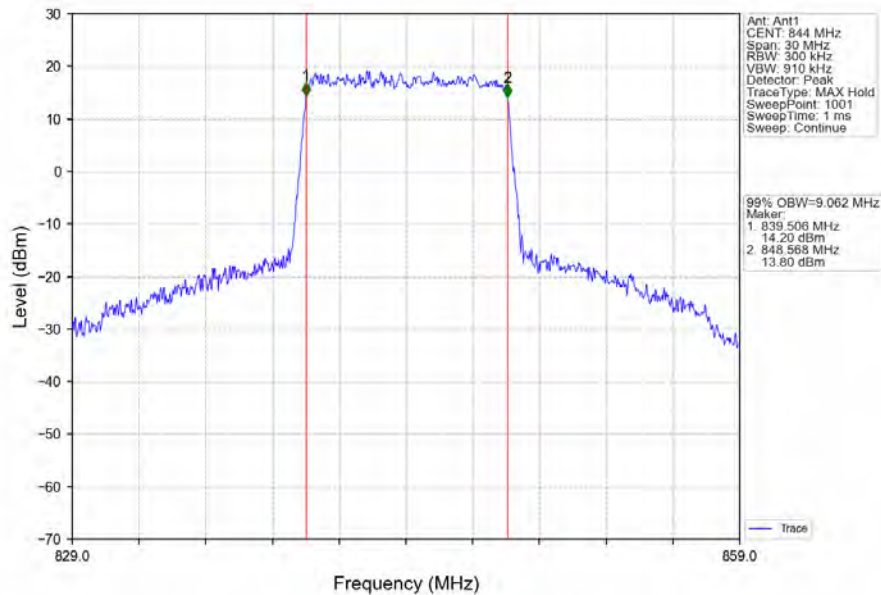
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Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



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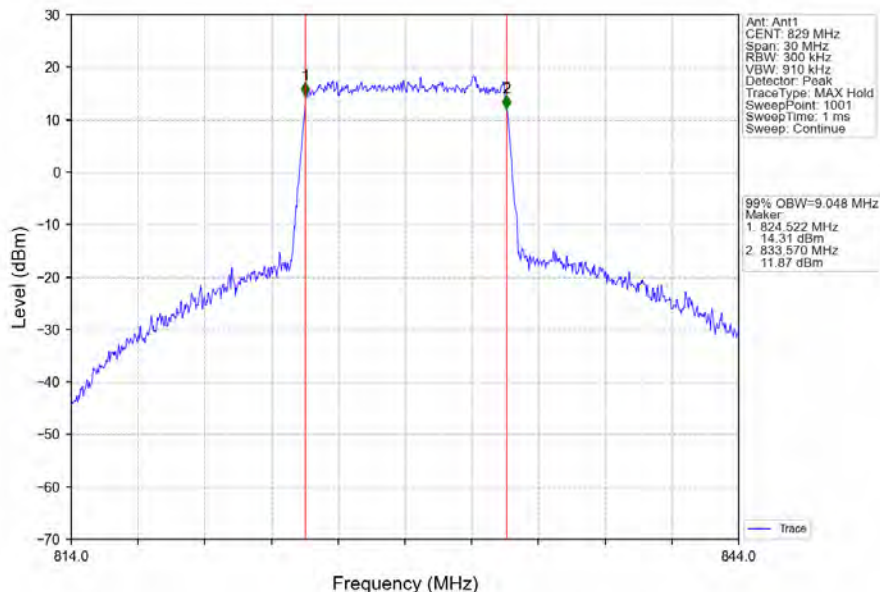
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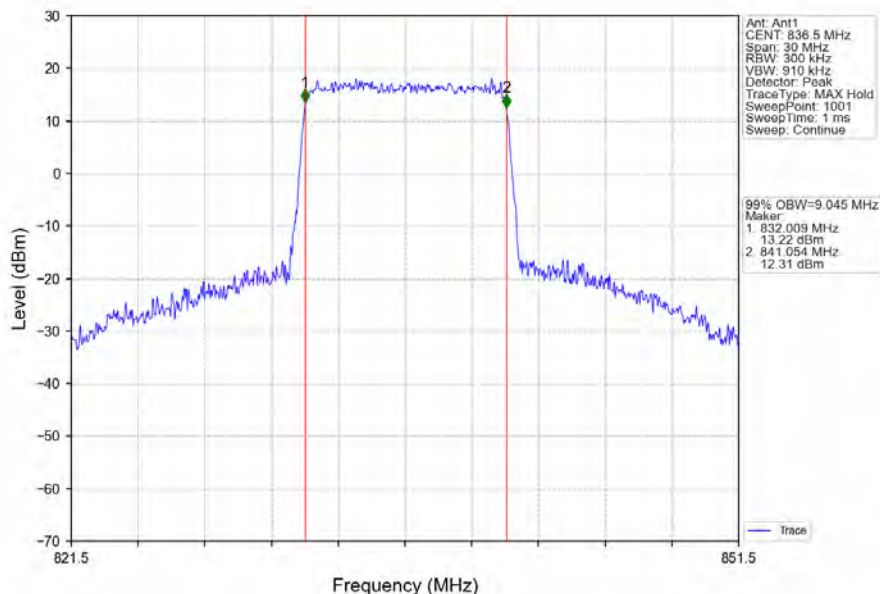
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Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV



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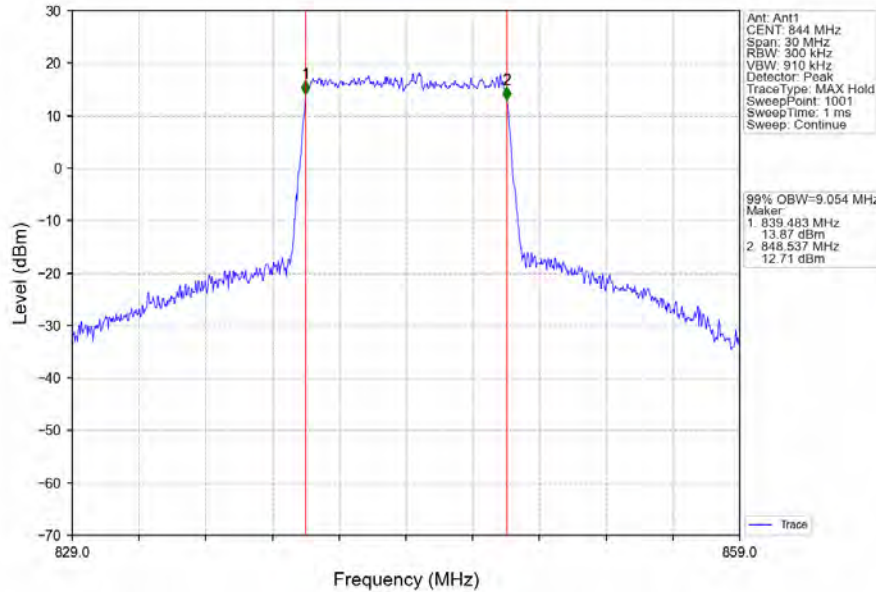
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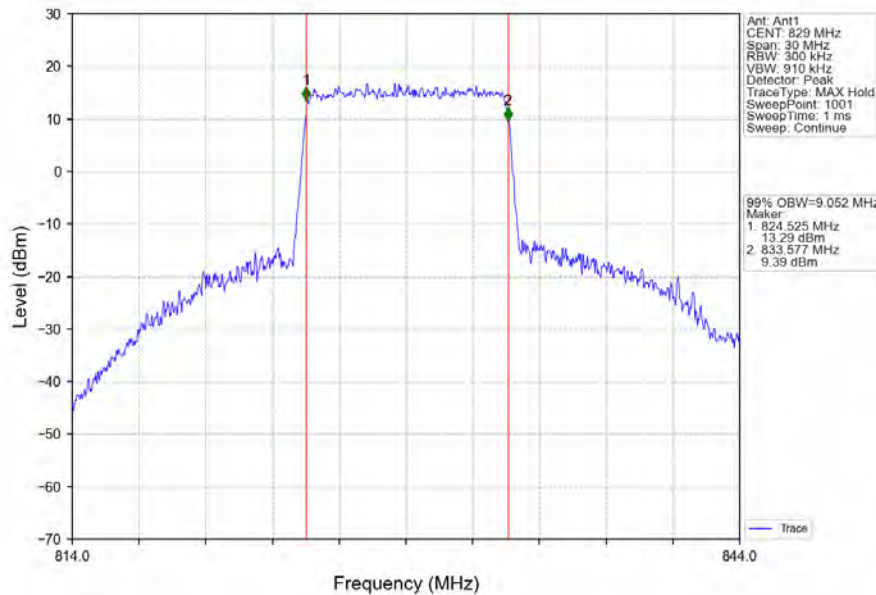
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Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV



Band5_10MHz_64QAM_LCH_829MHz_RB_50_0_NTNV



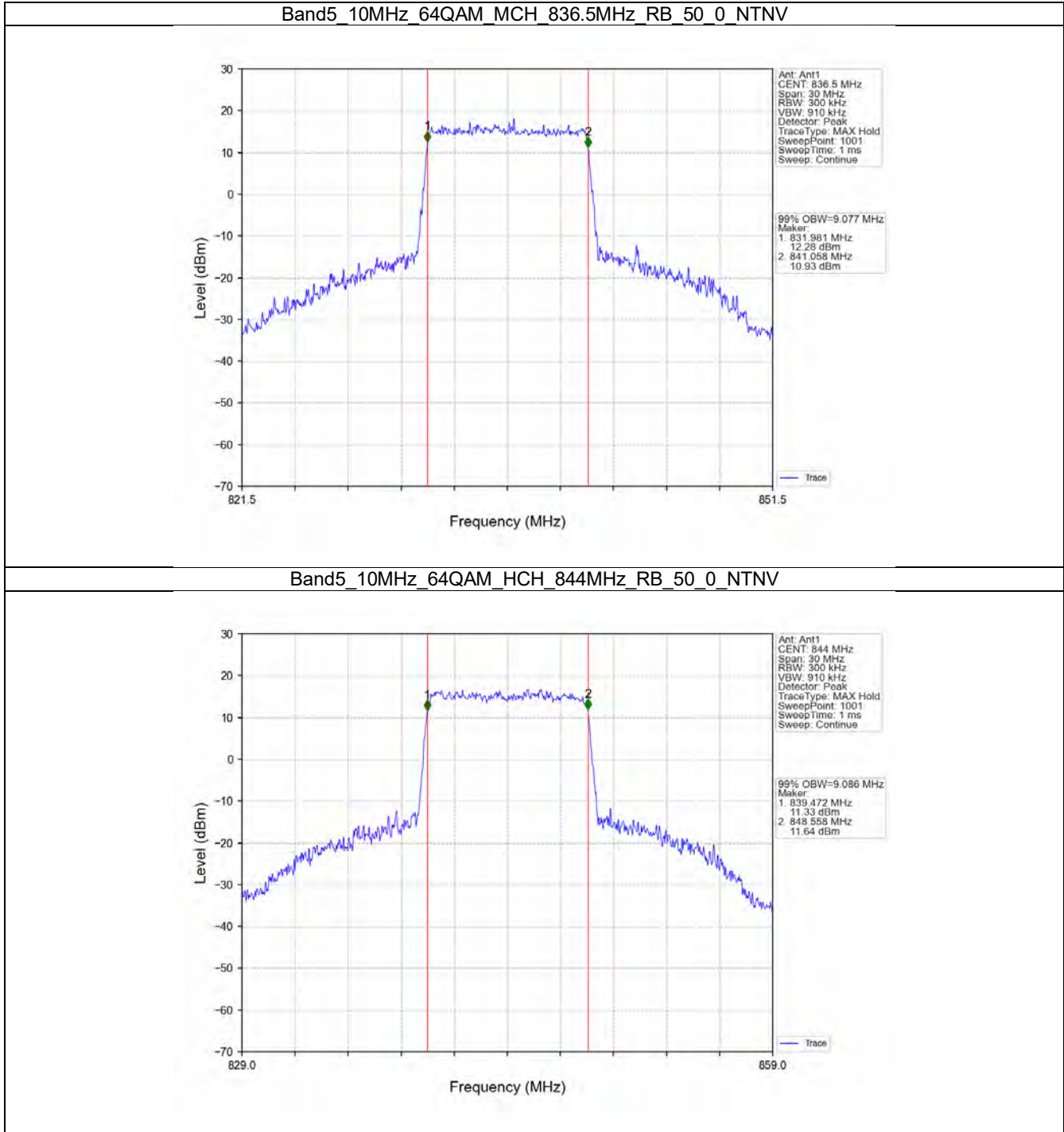
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4.2 Band5_XDB

4.2.1 Test Result

Band: 5 / NTV							
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	1.306	/	Pass
		848.3	6	0	1.321	/	Pass
	16QAM	824.7	6	0	1.305	/	Pass
		836.5	6	0	1.305	/	Pass
		848.3	6	0	1.319	/	Pass
	64QAM	824.7	6	0	1.325	/	Pass
		836.5	6	0	1.317	/	Pass
		848.3	6	0	1.343	/	Pass
3	QPSK	825.5	15	0	2.983	/	Pass
		836.5	15	0	3.001	/	Pass
		847.5	15	0	2.997	/	Pass
	16QAM	825.5	15	0	3.000	/	Pass
		836.5	15	0	2.991	/	Pass
		847.5	15	0	2.991	/	Pass
	64QAM	825.5	15	0	2.997	/	Pass
		836.5	15	0	2.991	/	Pass
		847.5	15	0	2.998	/	Pass
5	QPSK	826.5	25	0	5.016	/	Pass
		836.5	25	0	5.027	/	Pass
		846.5	25	0	5.024	/	Pass
	16QAM	826.5	25	0	5.006	/	Pass
		836.5	25	0	5.046	/	Pass
		846.5	25	0	5.024	/	Pass
	64QAM	826.5	25	0	5.002	/	Pass
		836.5	25	0	5.018	/	Pass
		846.5	25	0	4.980	/	Pass
10	QPSK	829	50	0	9.864	/	Pass
		836.5	50	0	9.919	/	Pass
		844	50	0	9.979	/	Pass
	16QAM	829	50	0	9.931	/	Pass
		836.5	50	0	9.910	/	Pass
		844	50	0	9.945	/	Pass
	64QAM	829	50	0	9.906	/	Pass
		836.5	50	0	9.909	/	Pass
		844	50	0	9.972	/	Pass



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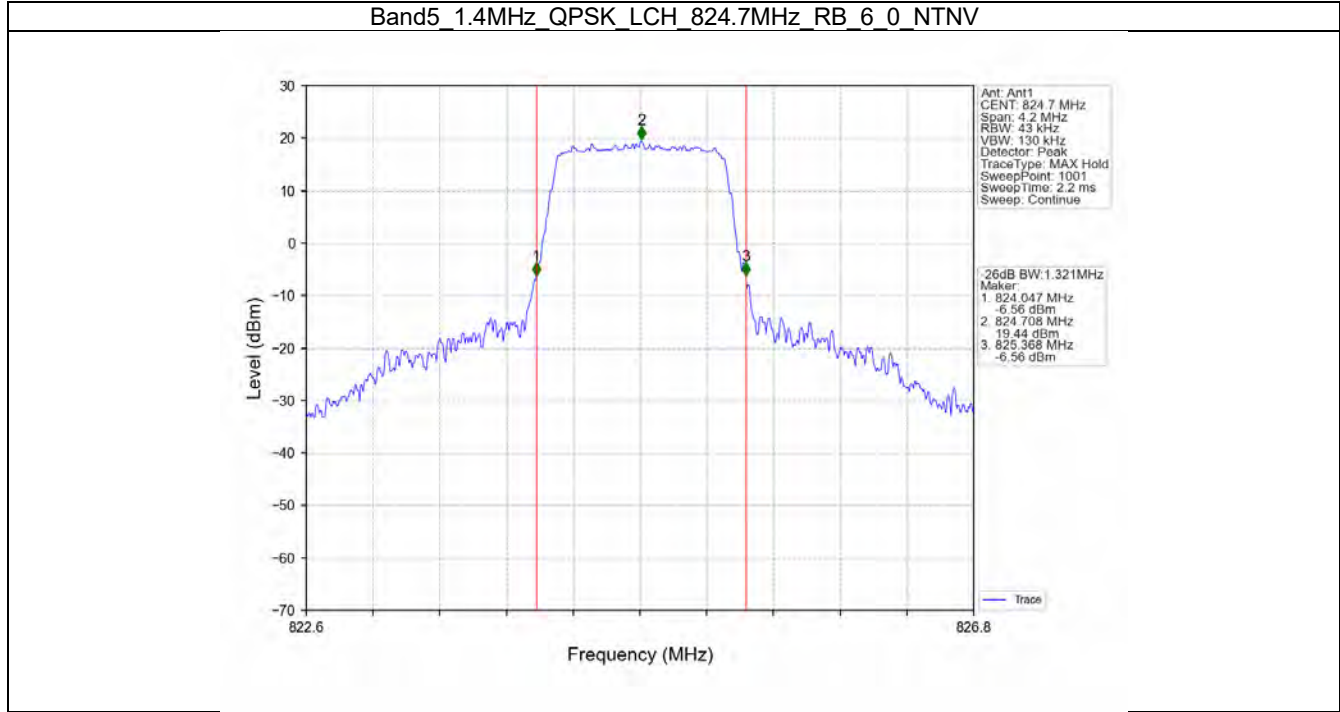
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4.2.2 Test Graph



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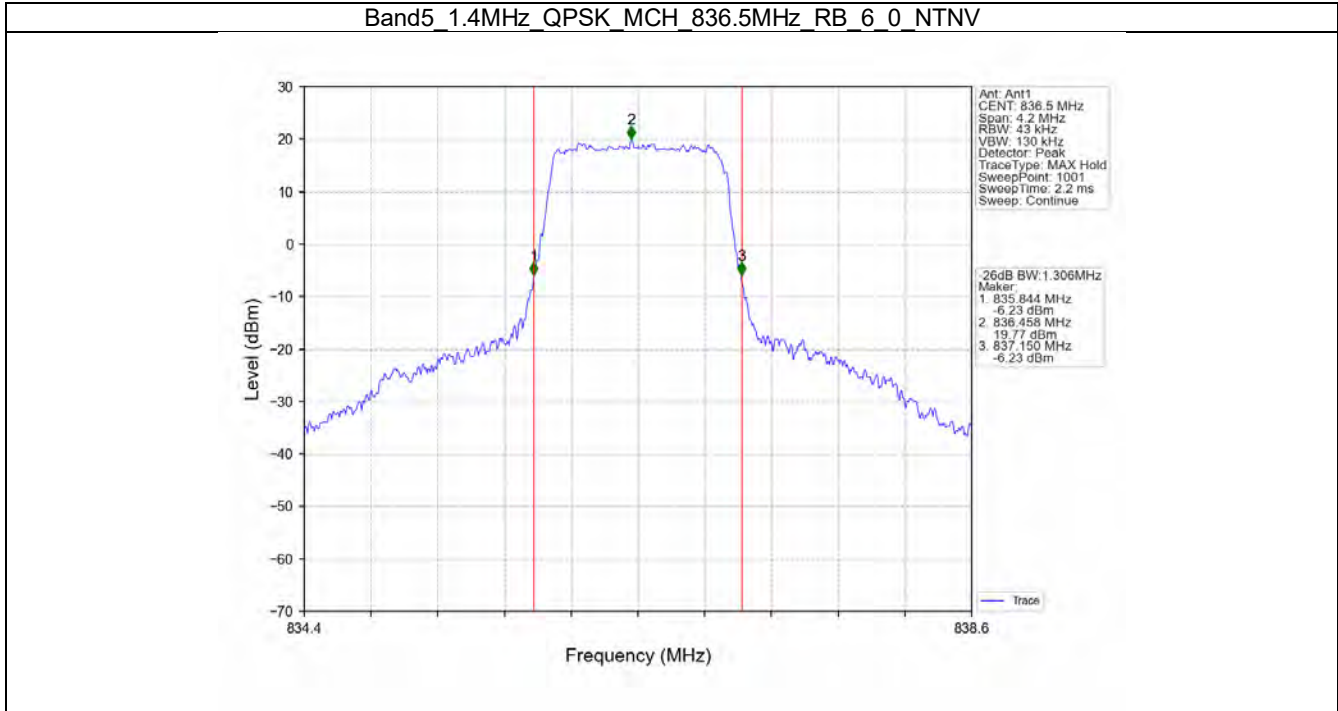
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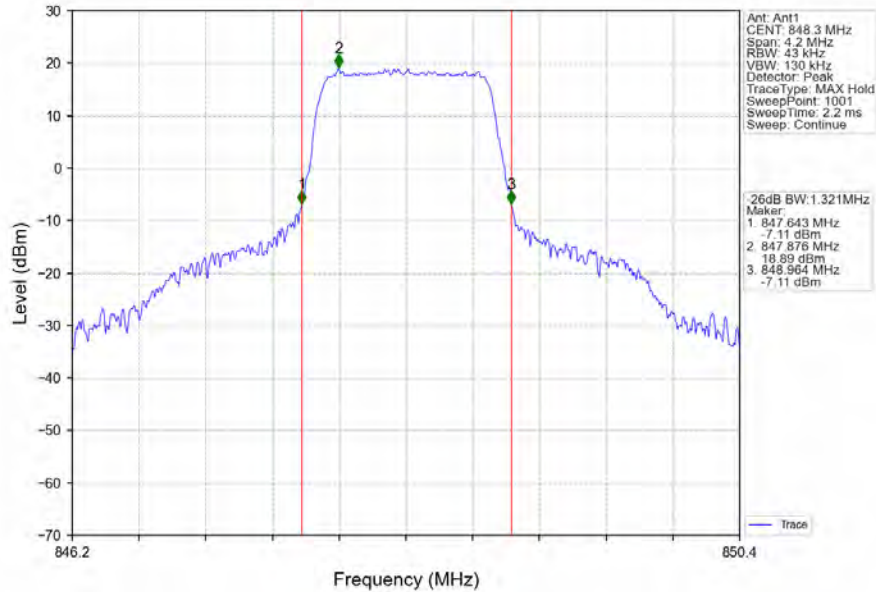
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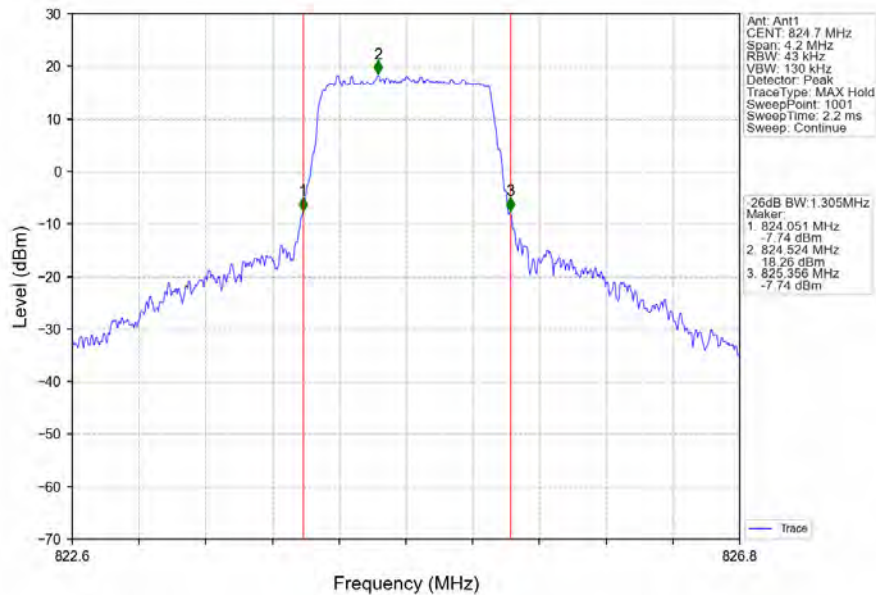
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Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



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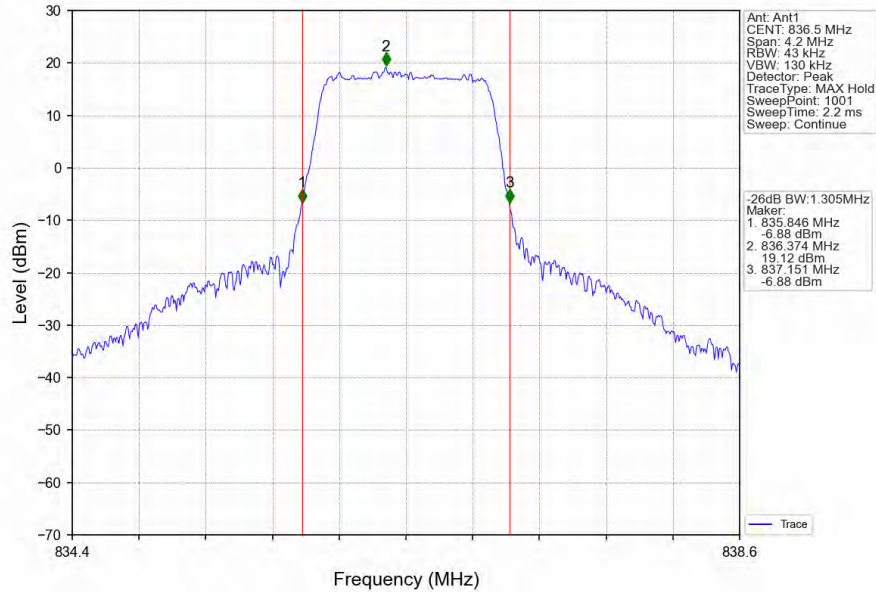
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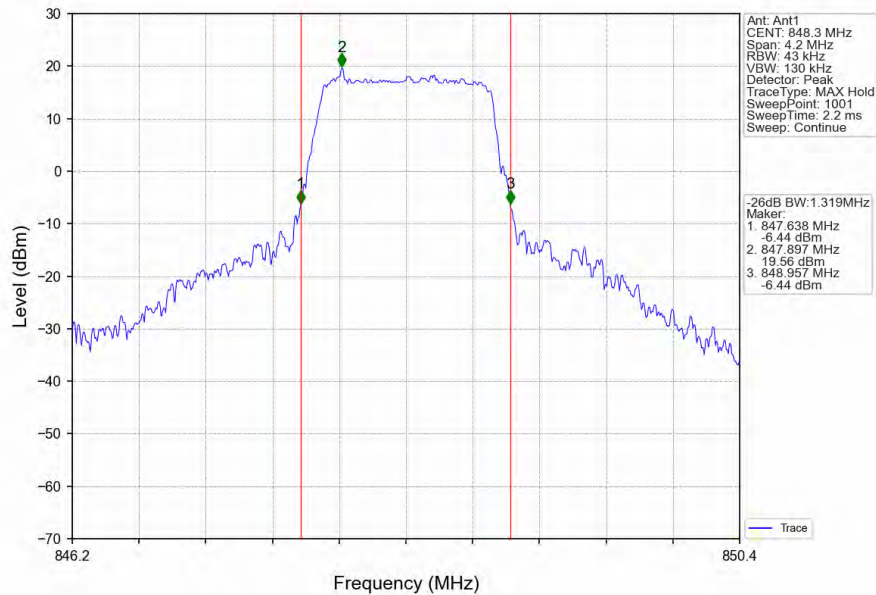
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Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTV



Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTV



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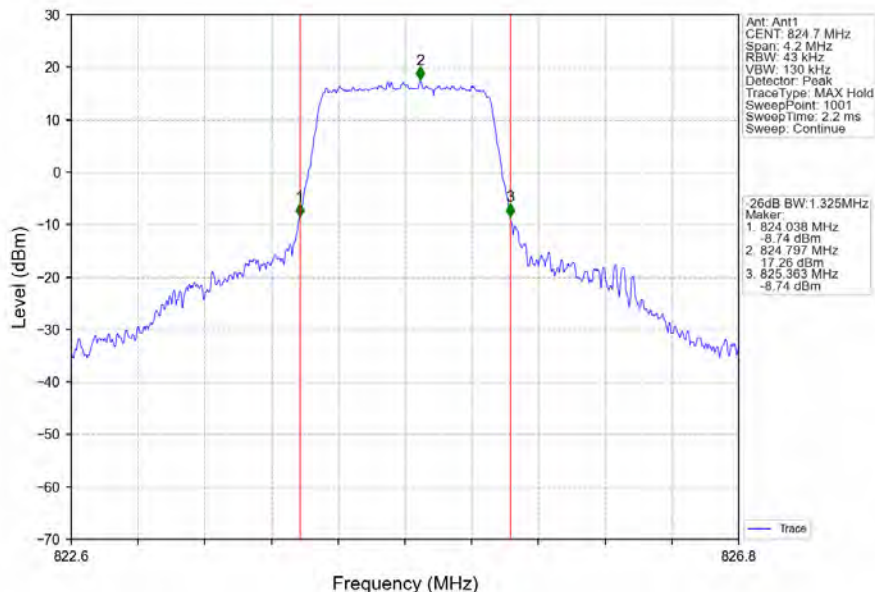
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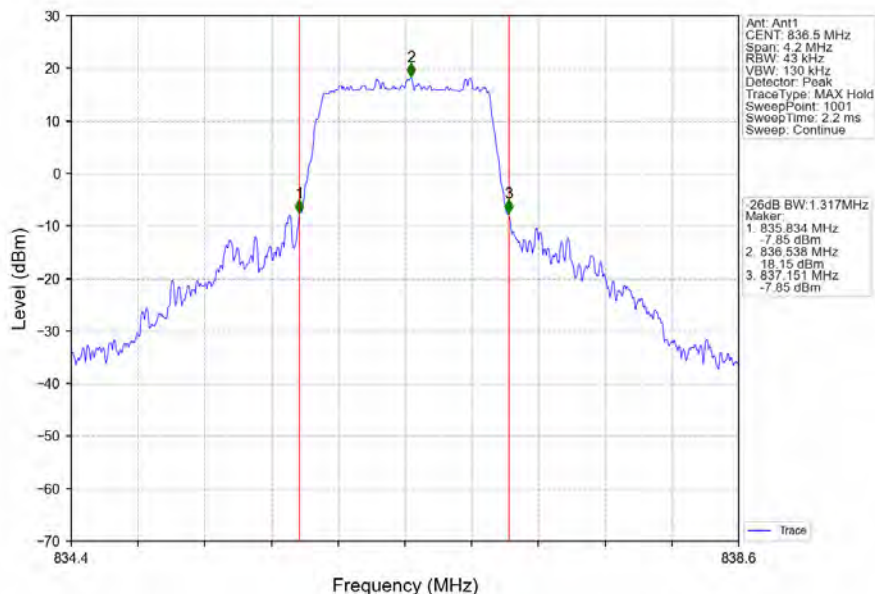
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Band5_1.4MHz_64QAM_LCH_824.7MHz_RB_6_0_NTNV



Band5_1.4MHz_64QAM_MCH_836.5MHz_RB_6_0_NTNV



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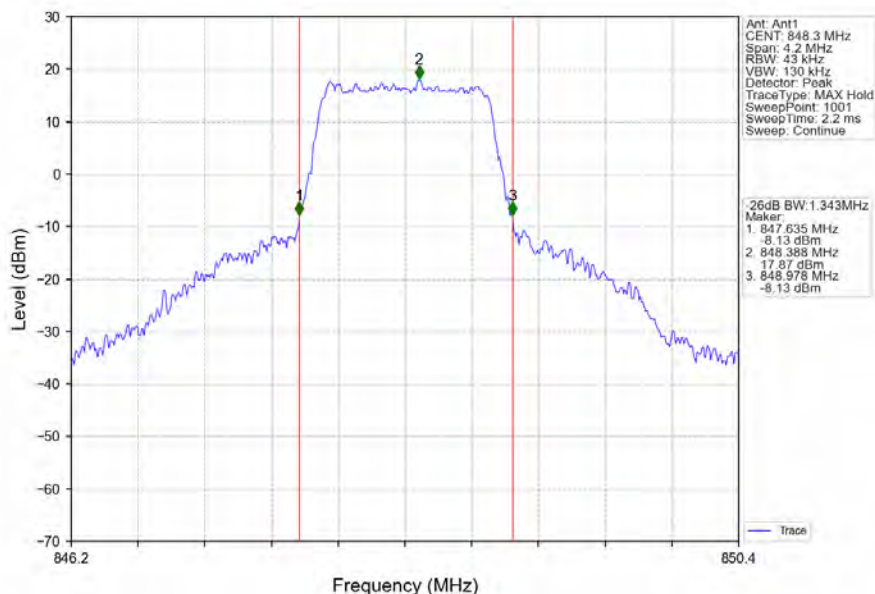
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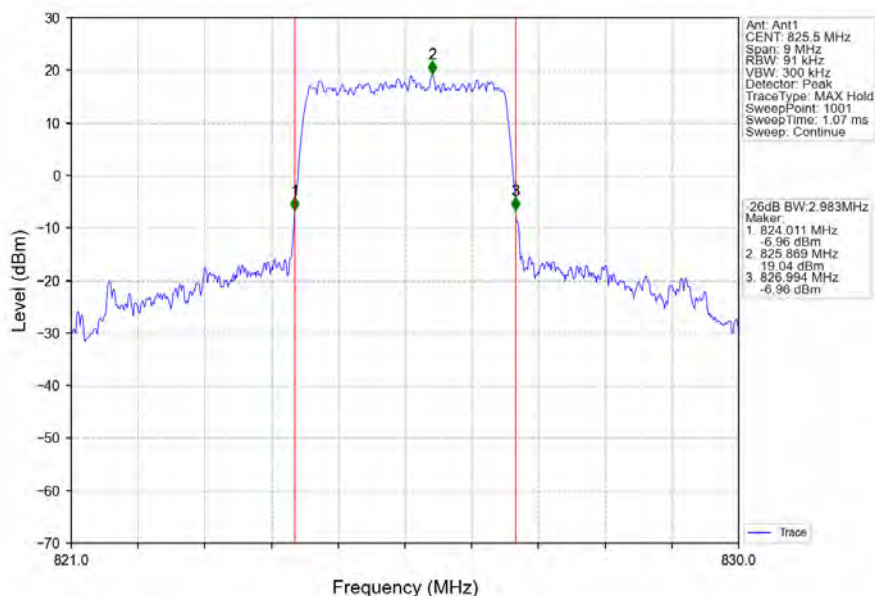
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Band5_1.4MHz_64QAM_HCH_848.3MHz_RB_6_0_NTNV



Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



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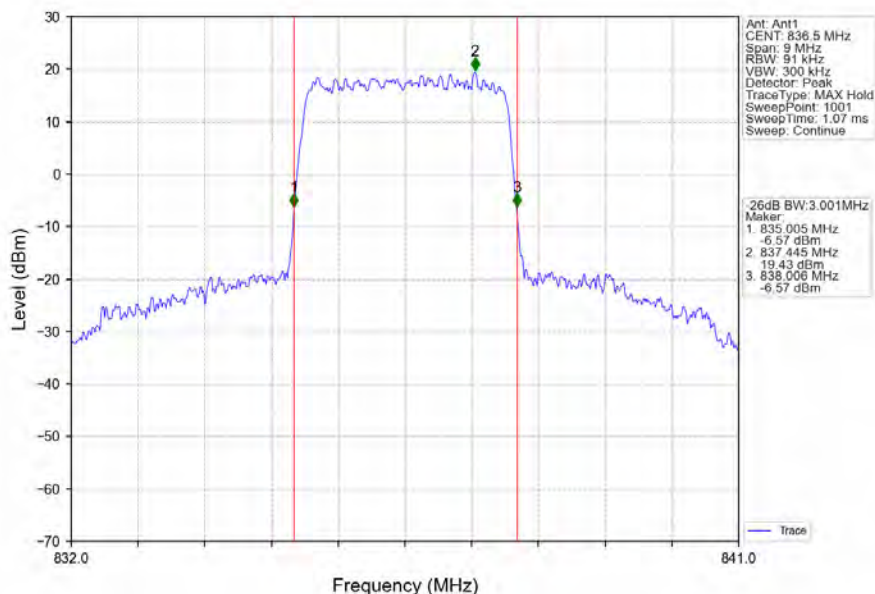
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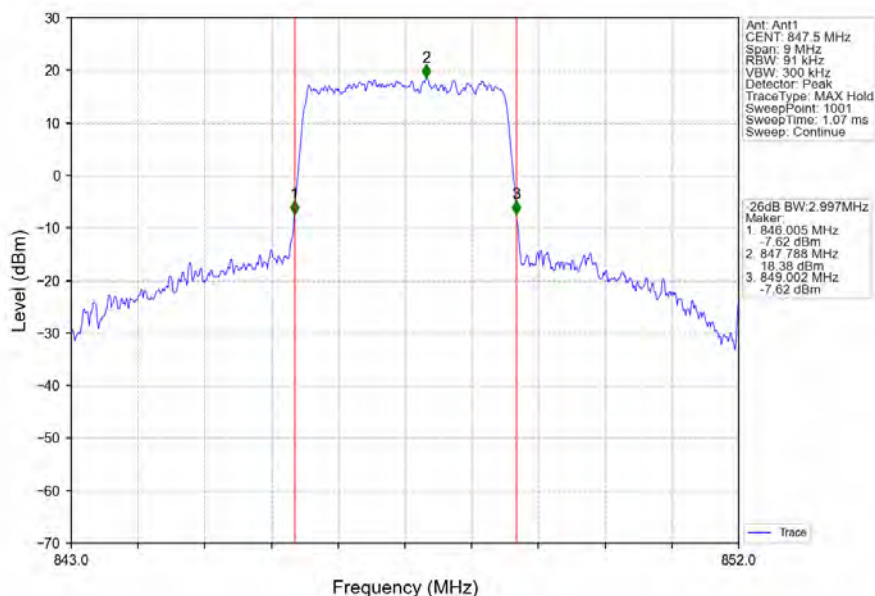
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Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



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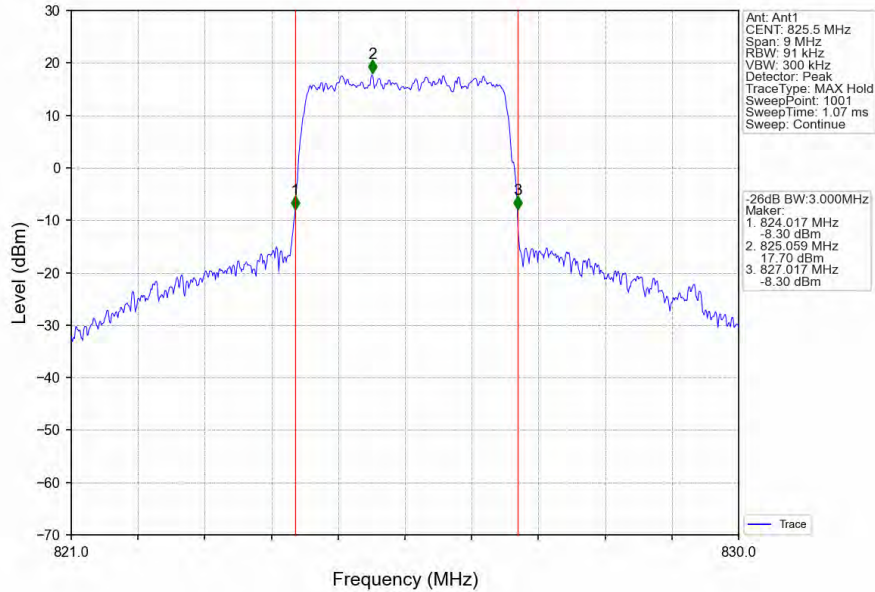
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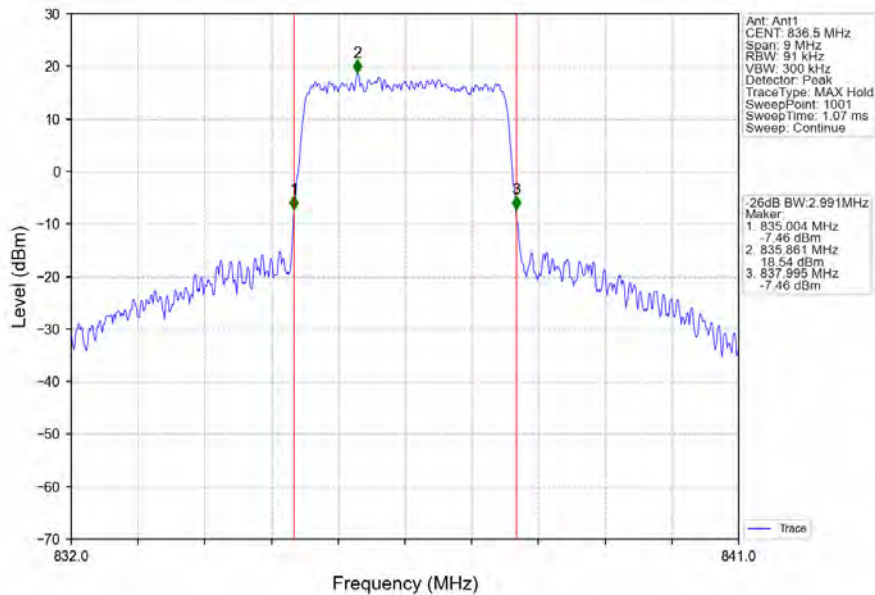
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Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



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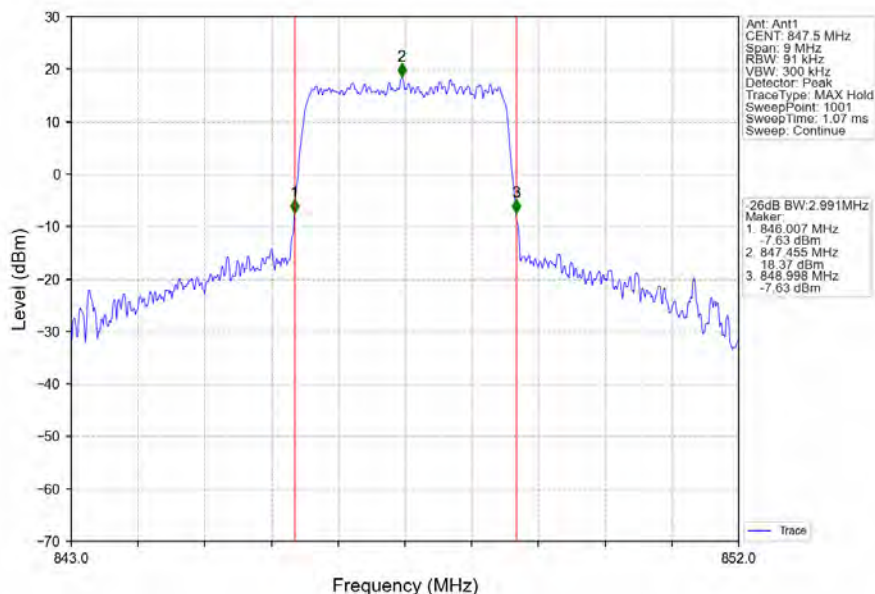
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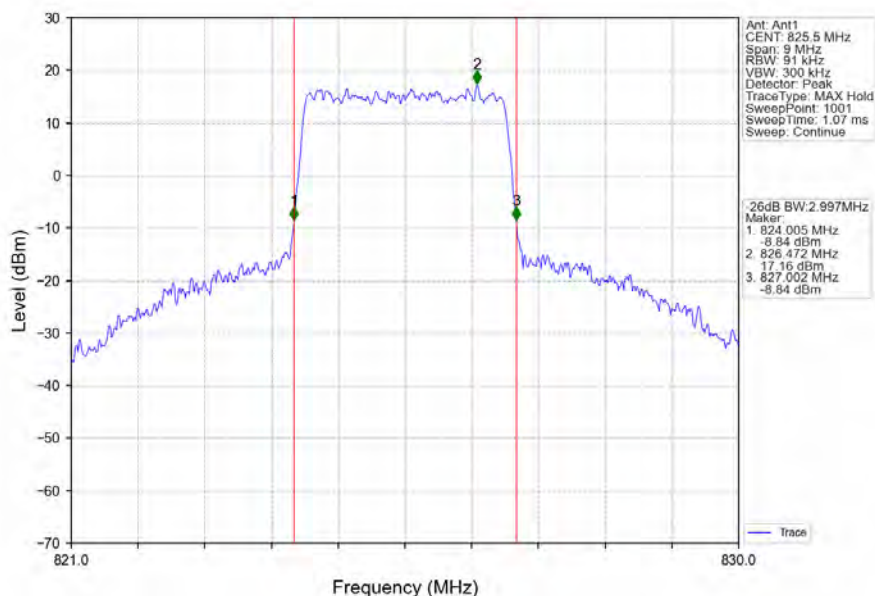
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Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



Band5_3MHz_64QAM_LCH_825.5MHz_RB_15_0_NTNV



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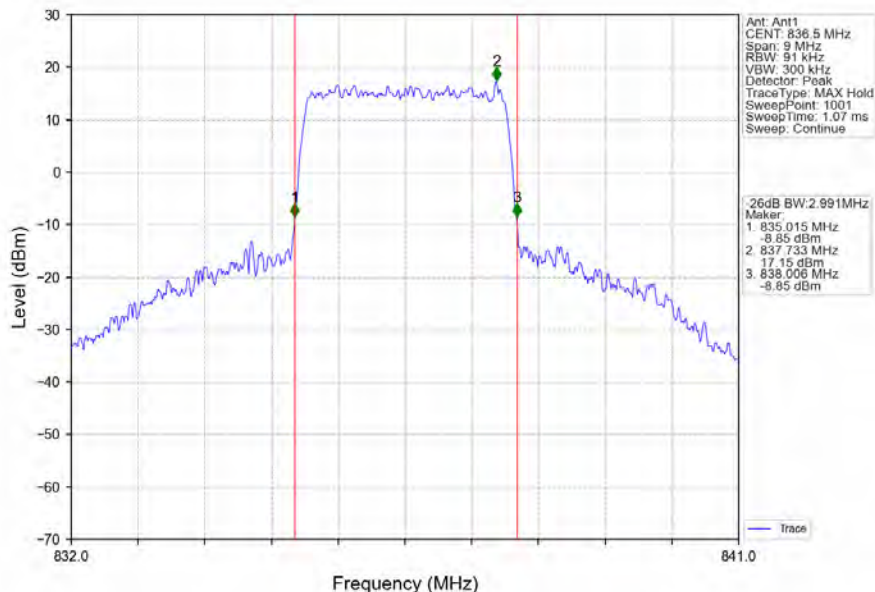
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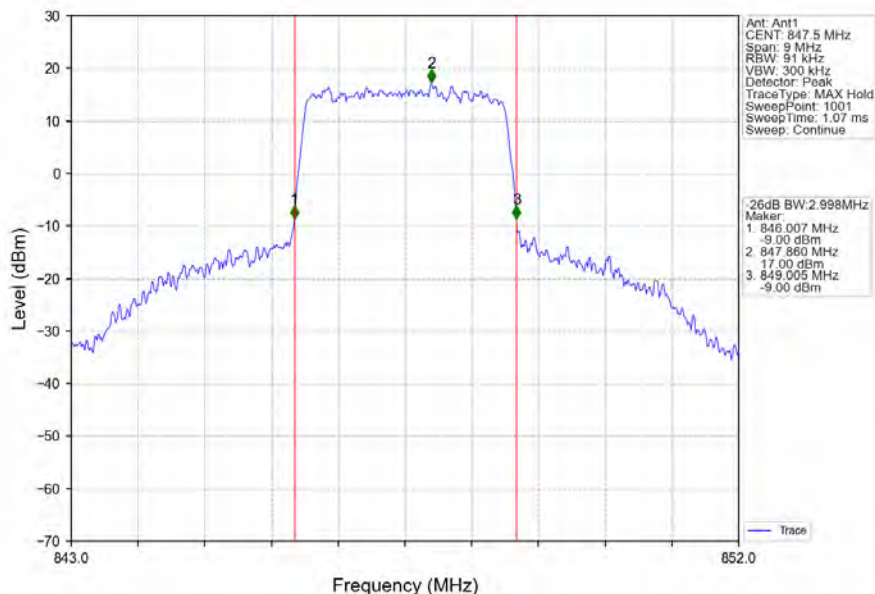
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Band5_3MHz_64QAM_MCH_836.5MHz_RB_15_0_NTNV



Band5_3MHz_64QAM_HCH_847.5MHz_RB_15_0_NTNV



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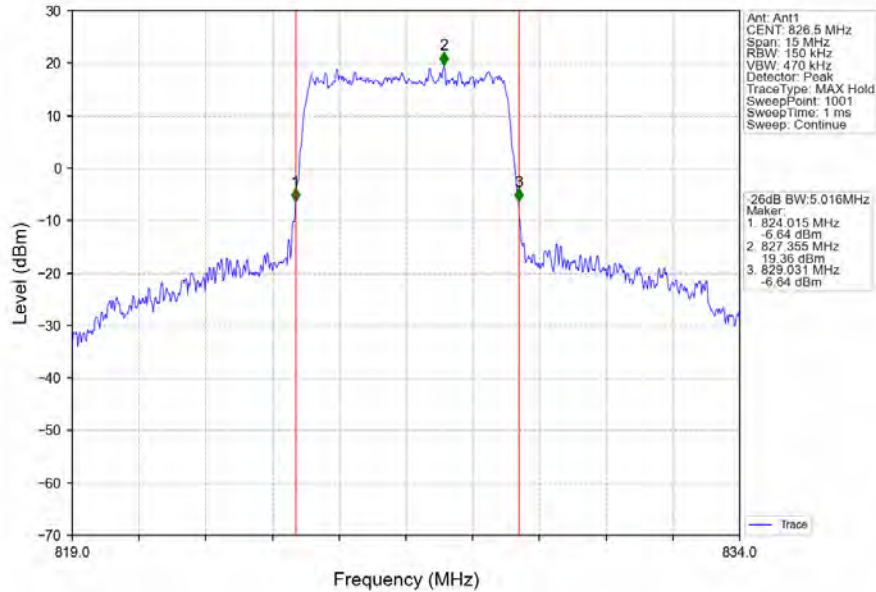
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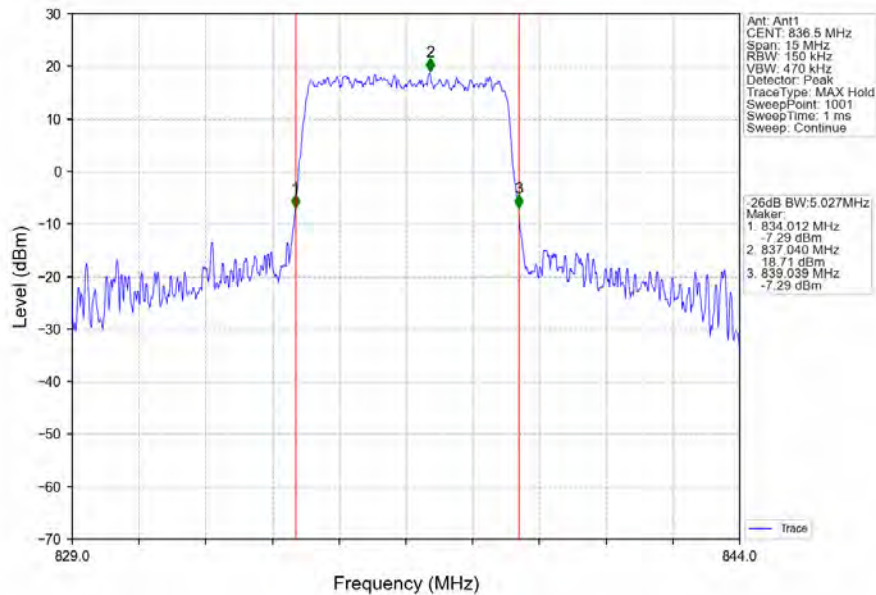
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Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



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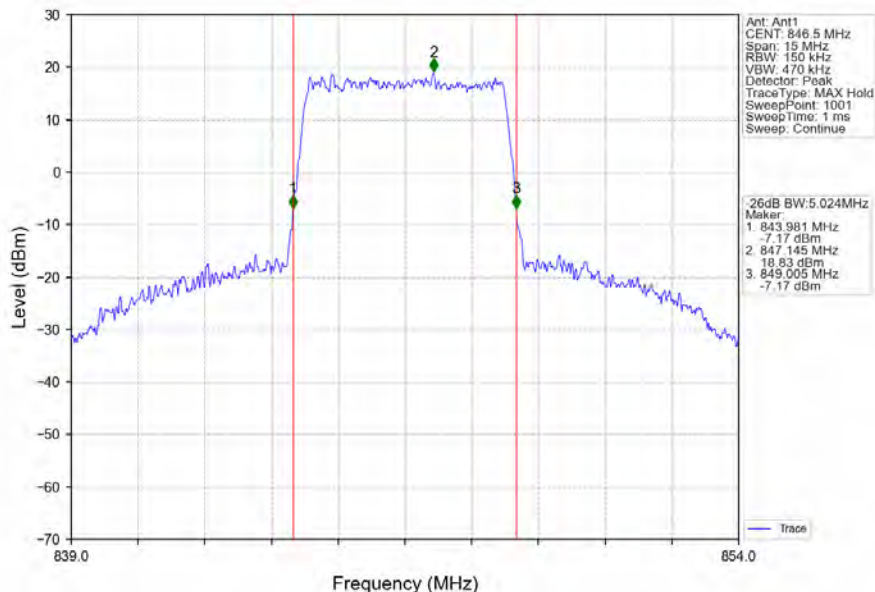
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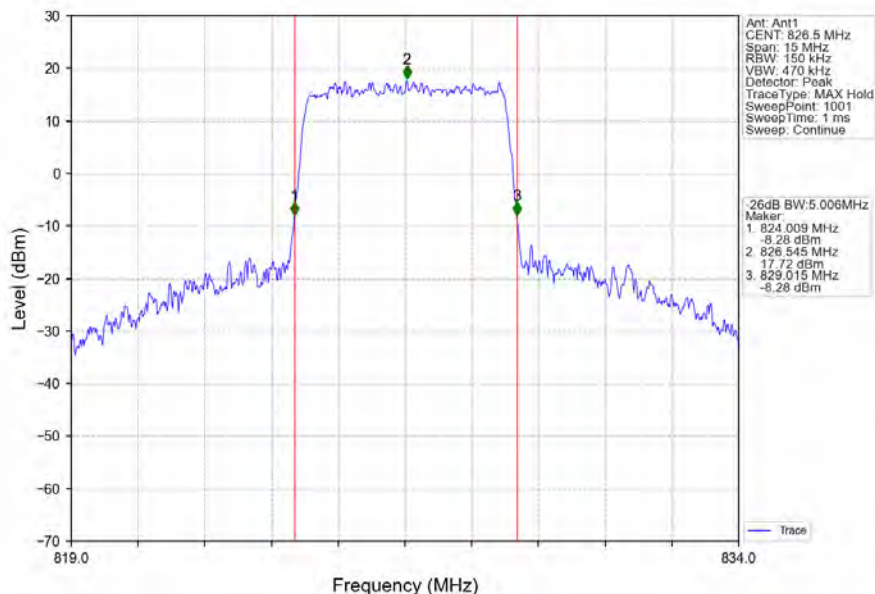
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Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



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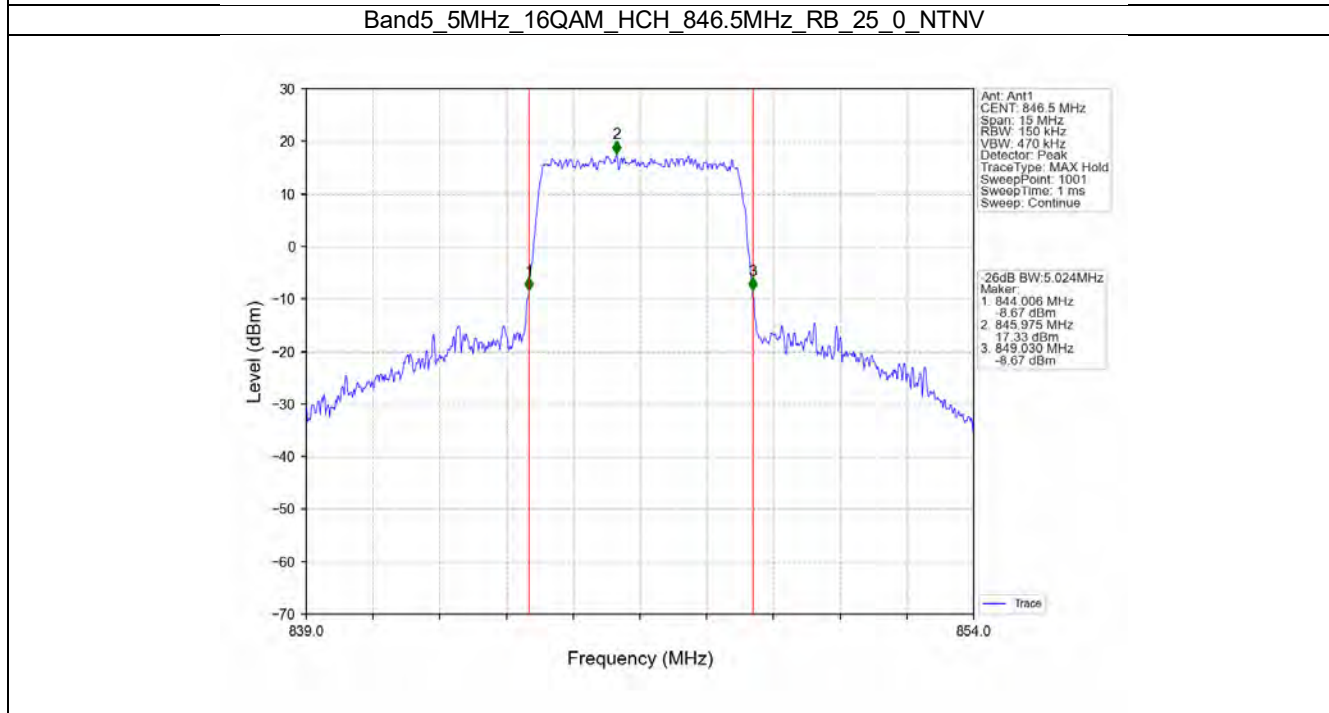
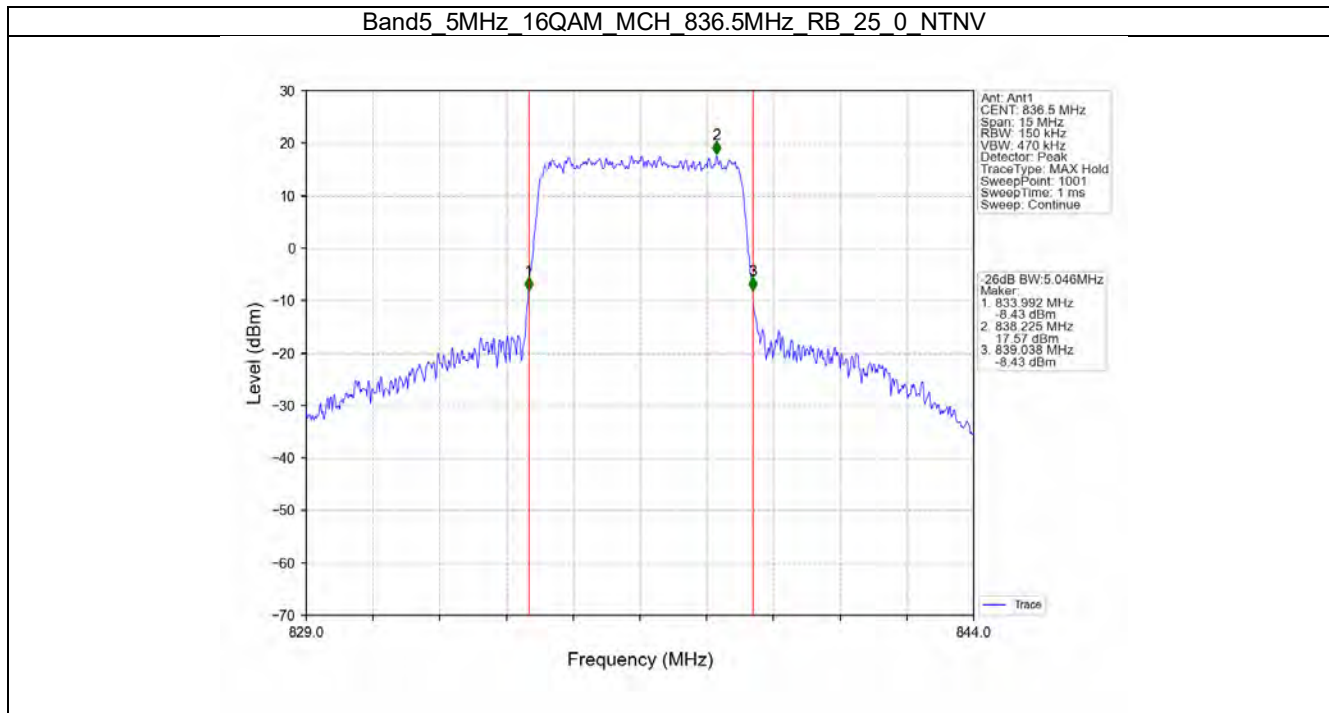


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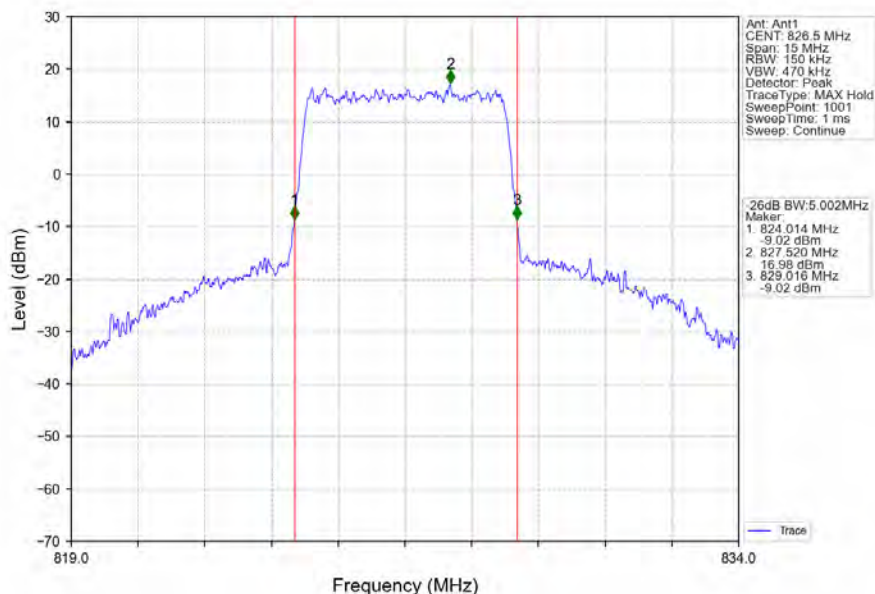
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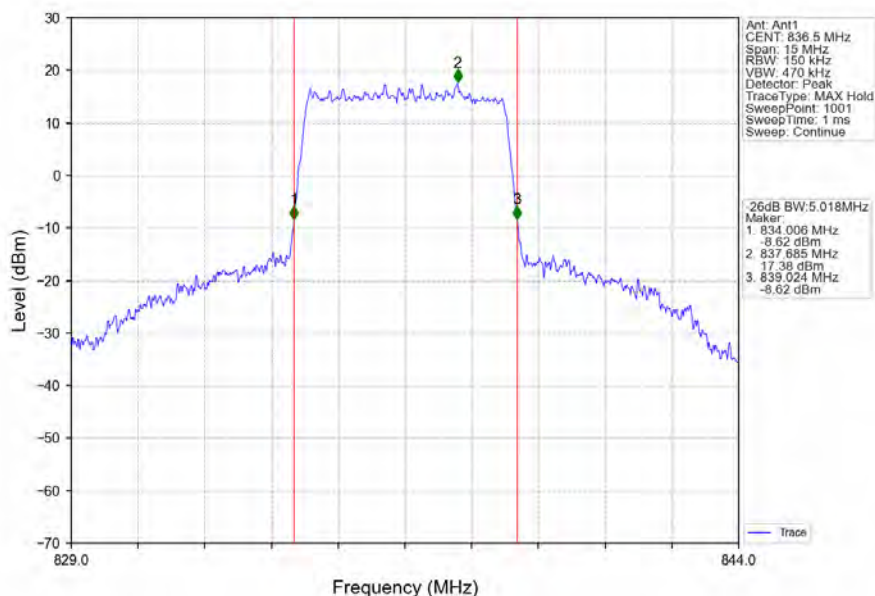
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Band5_5MHz_64QAM_LCH_826.5MHz_RB_25_0_NTNV



Band5_5MHz_64QAM_MCH_836.5MHz_RB_25_0_NTNV



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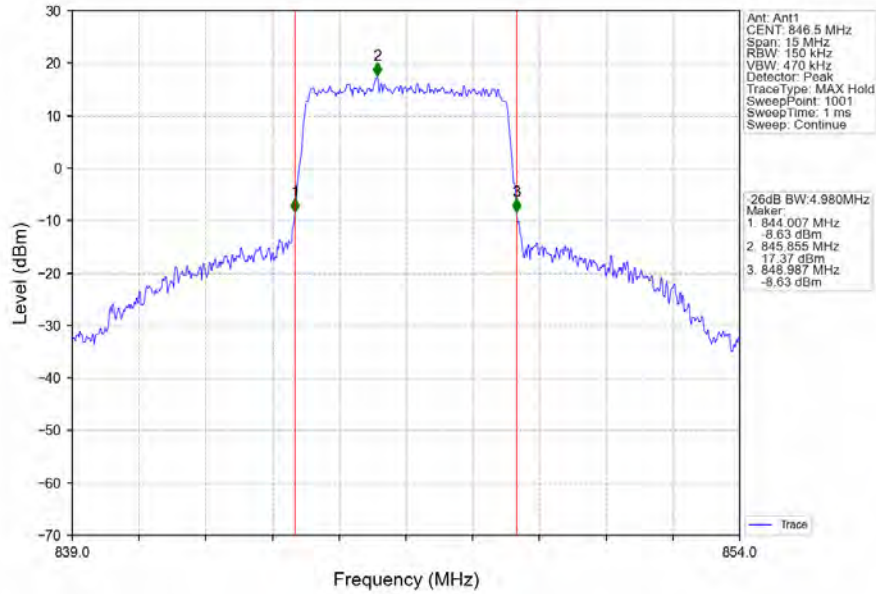
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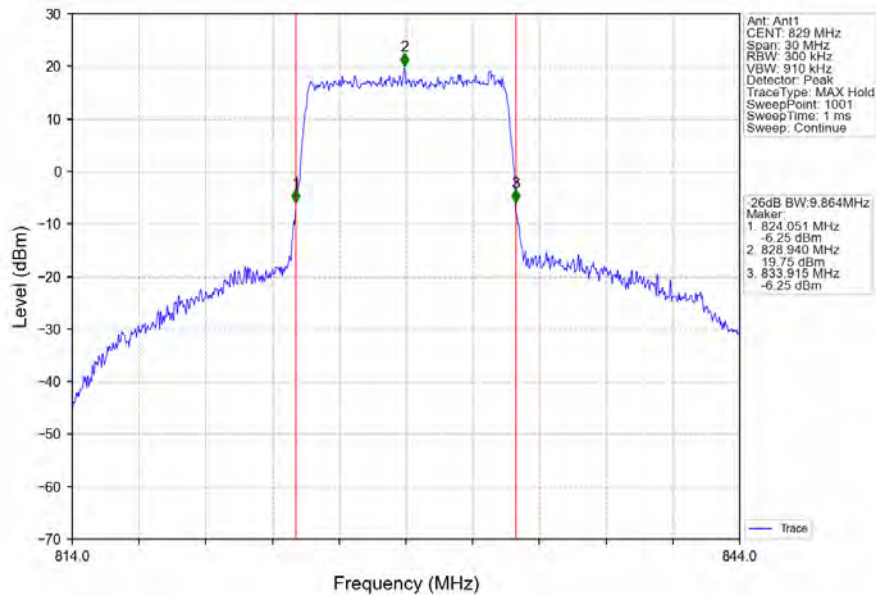
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Band5_5MHz_64QAM_HCH_846.5MHz_RB_25_0_NTNV



Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



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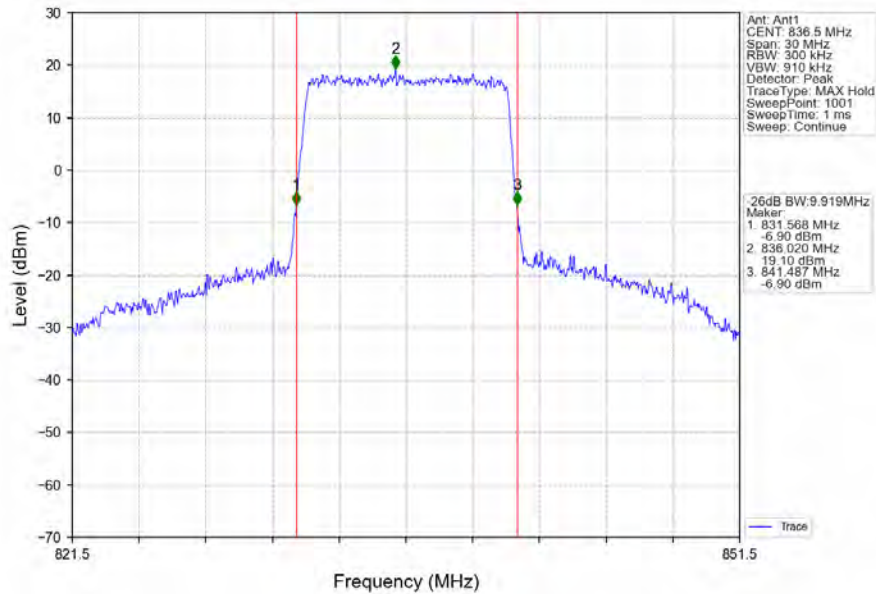
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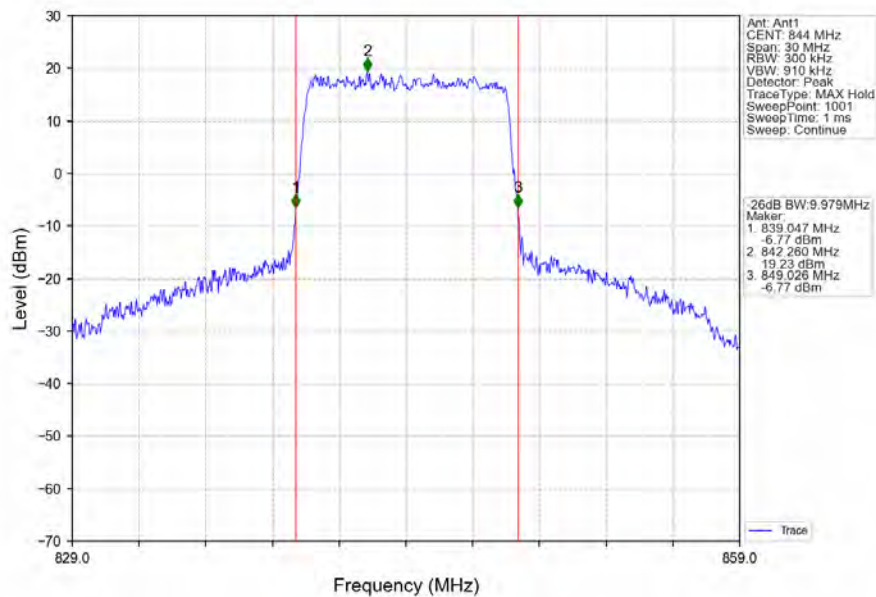
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Band5_10MHz_QPSK_MCH_836.5MHz_RB_50_0_NTNV



Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



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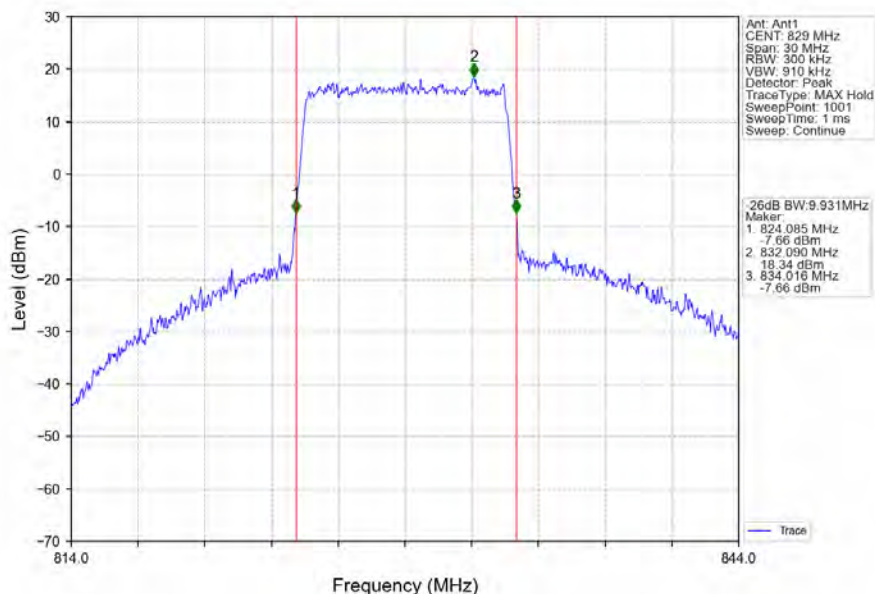
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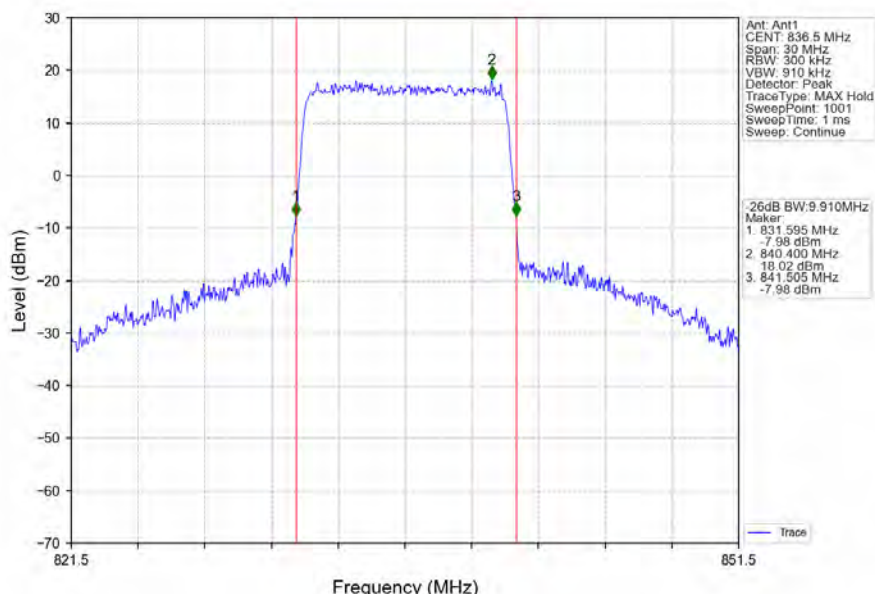
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Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV



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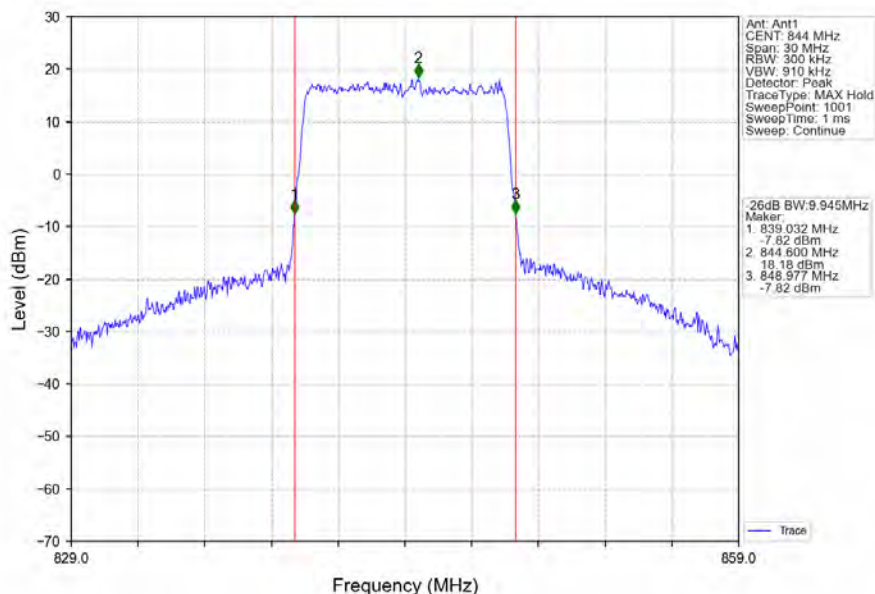
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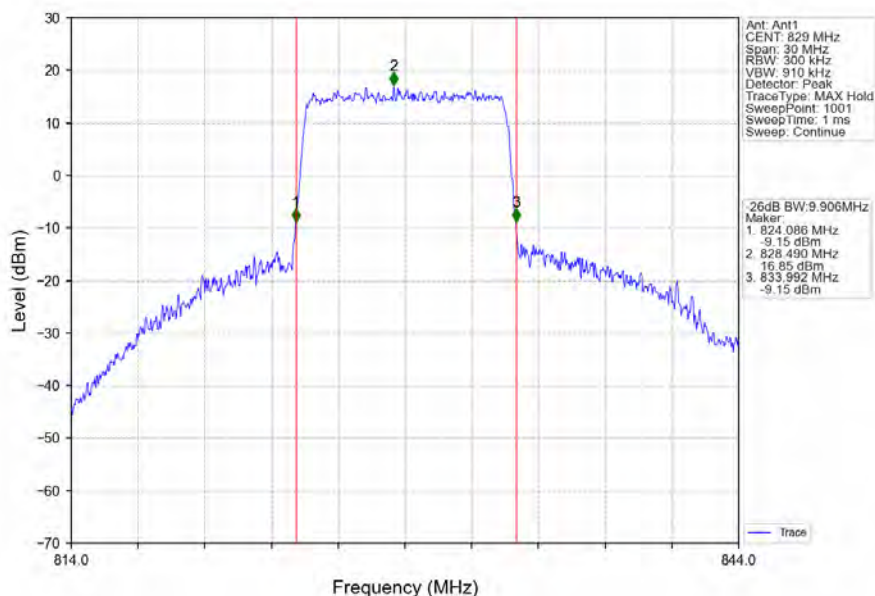
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Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV



Band5_10MHz_64QAM_LCH_829MHz_RB_50_0_NTNV



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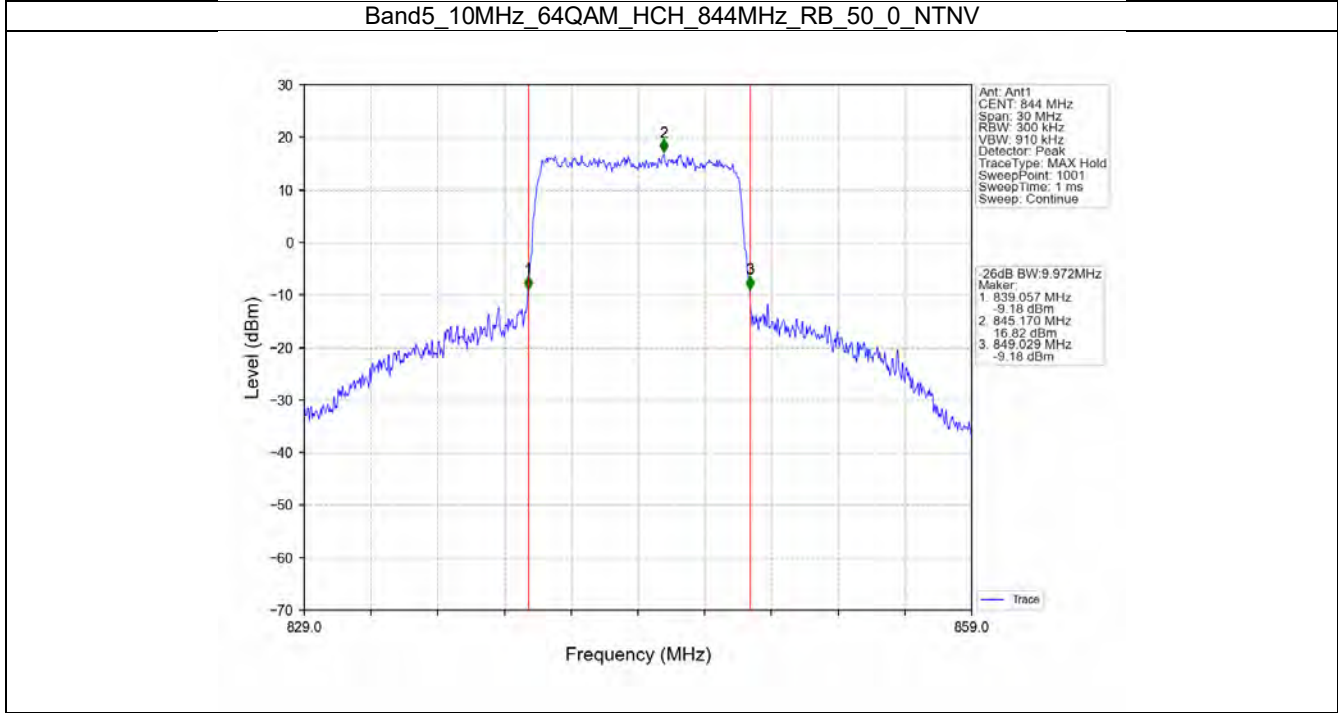
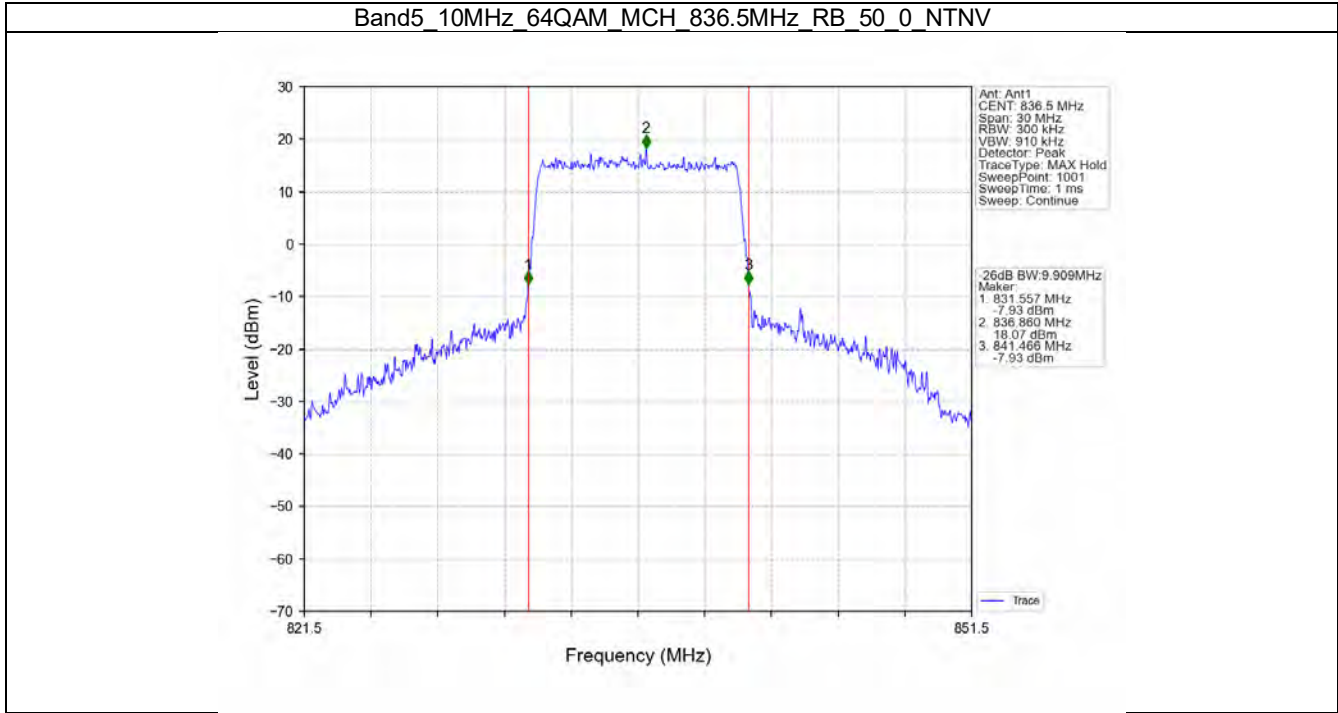
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5. Peak-Average Ratio

5.1 B5_1.4MHz

5.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	824.7	6	0	5.10	<=13	Pass
	836.5	6	0	4.99	<=13	Pass
	848.3	6	0	4.60	<=13	Pass
16QAM	824.7	6	0	5.85	<=13	Pass
	836.5	6	0	5.82	<=13	Pass
	848.3	6	0	5.43	<=13	Pass
64QAM	824.7	6	0	5.45	<=13	Pass
	836.5	6	0	5.25	<=13	Pass
	848.3	6	0	4.85	<=13	Pass



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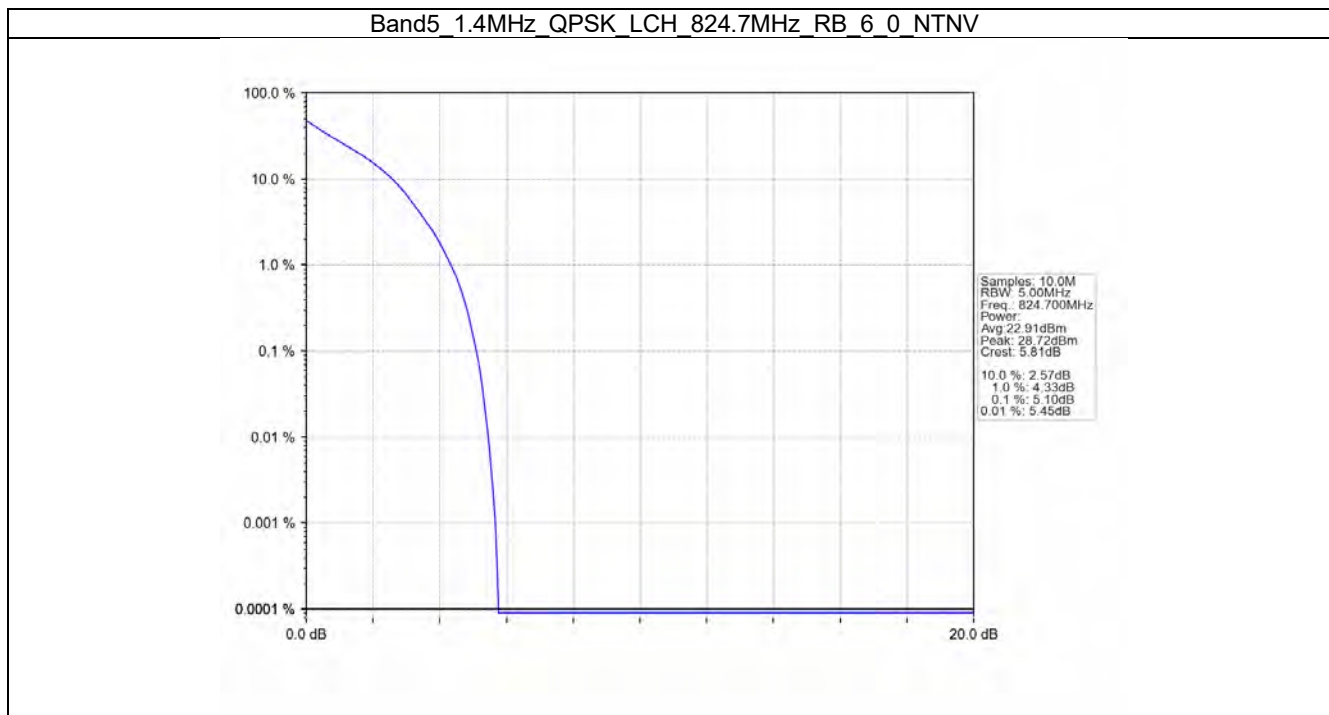
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5.1.2 Test Graph



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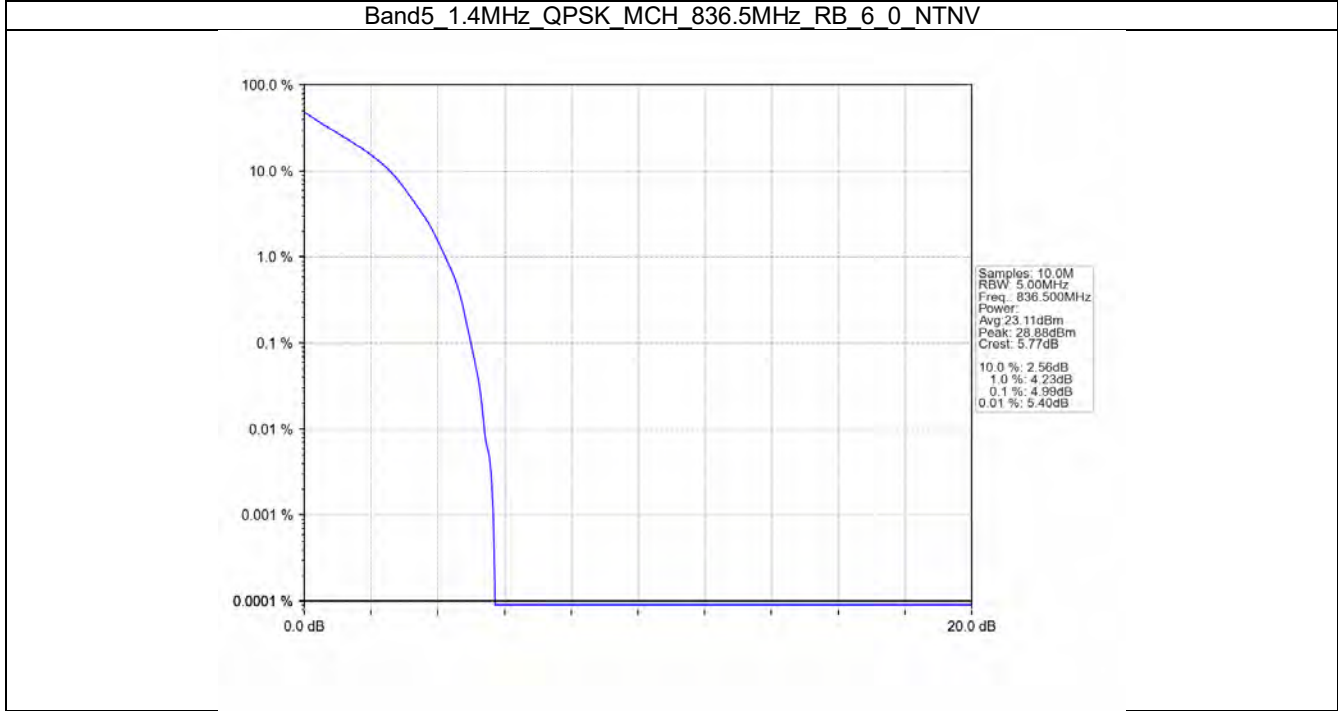
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Band5 1.4MHz QPSK MCH_836.5MHz RB_6_0 NTN



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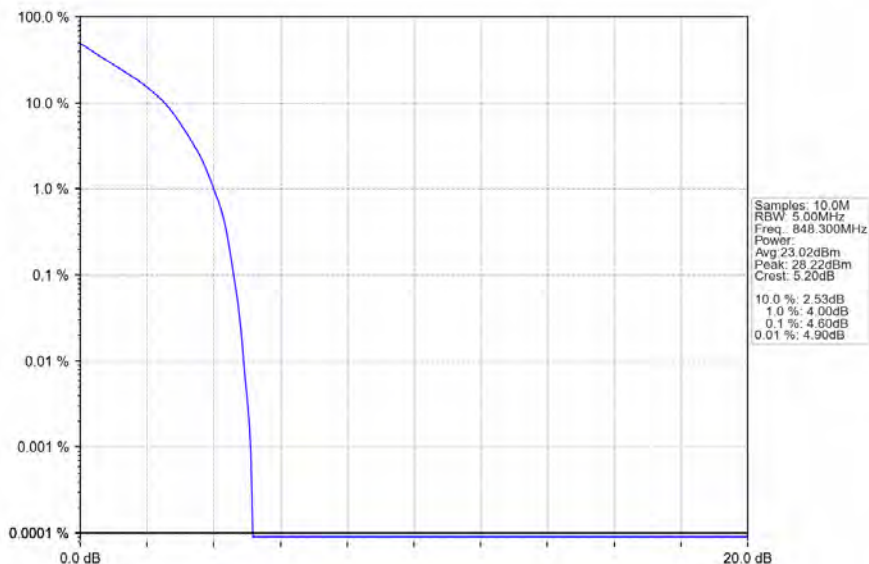
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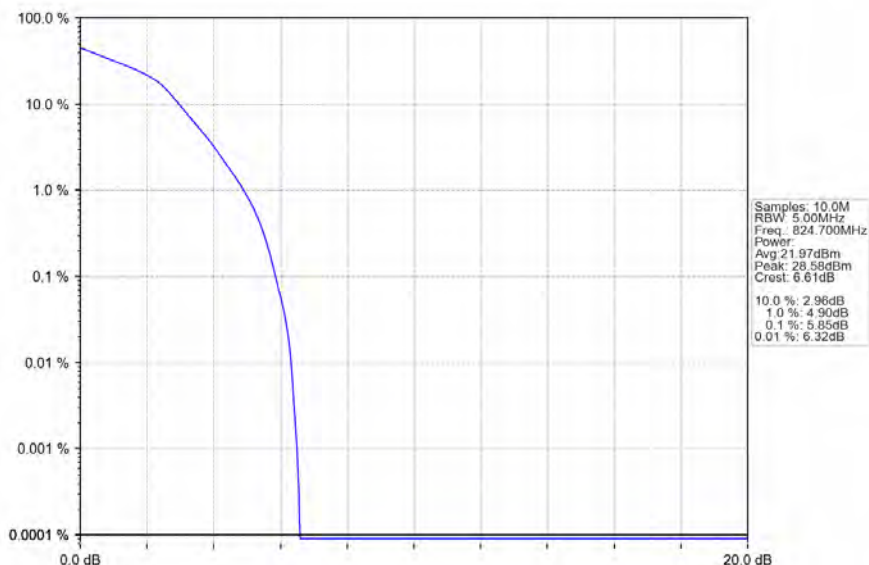
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Band5_1.4MHz_QPSK_HCH_848.3MHz_RB_6_0_NTNV



Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



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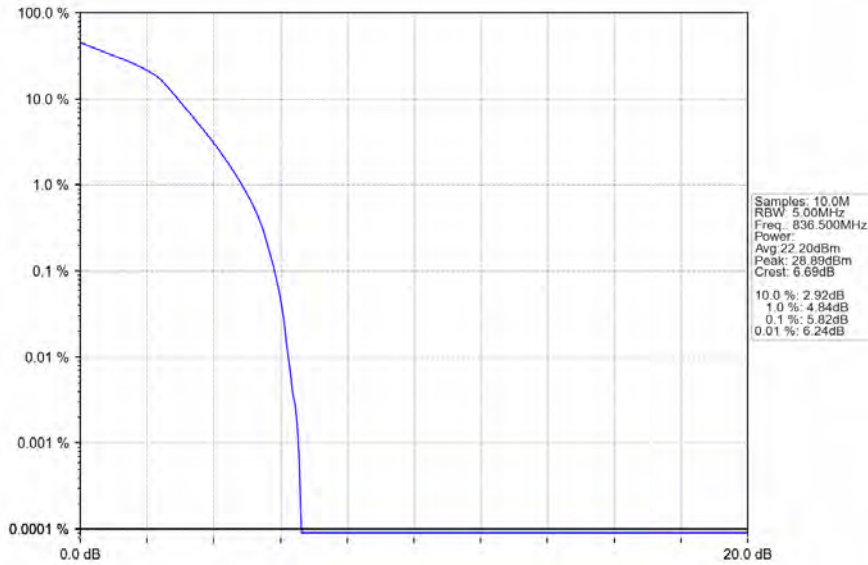
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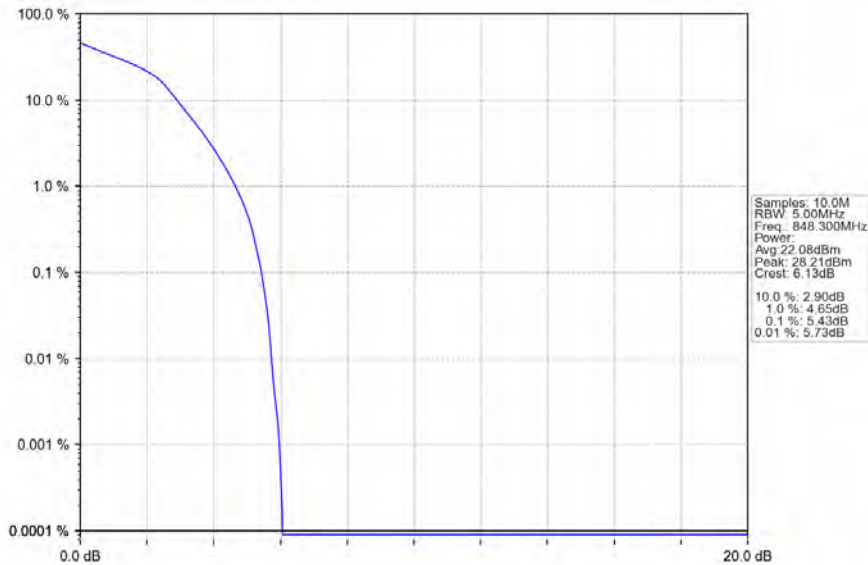
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Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_6_0_NTNV



Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



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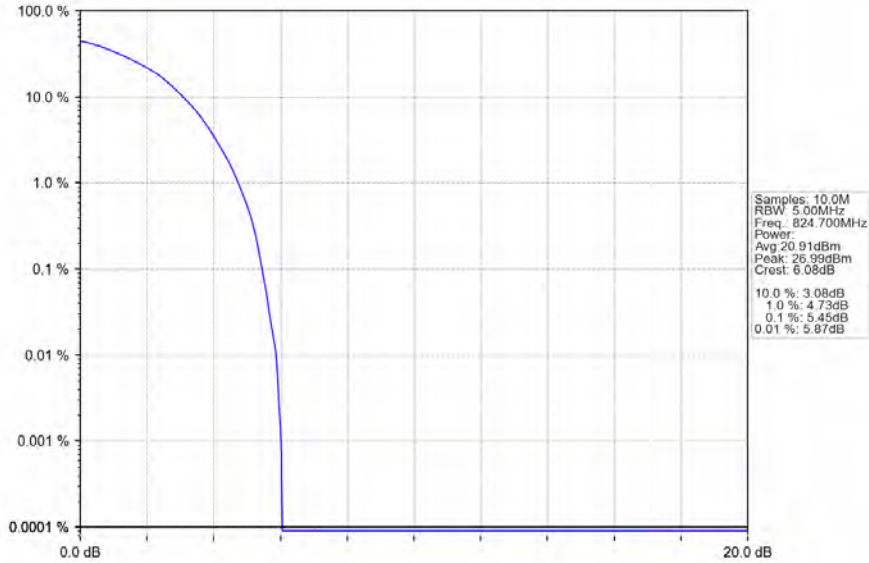
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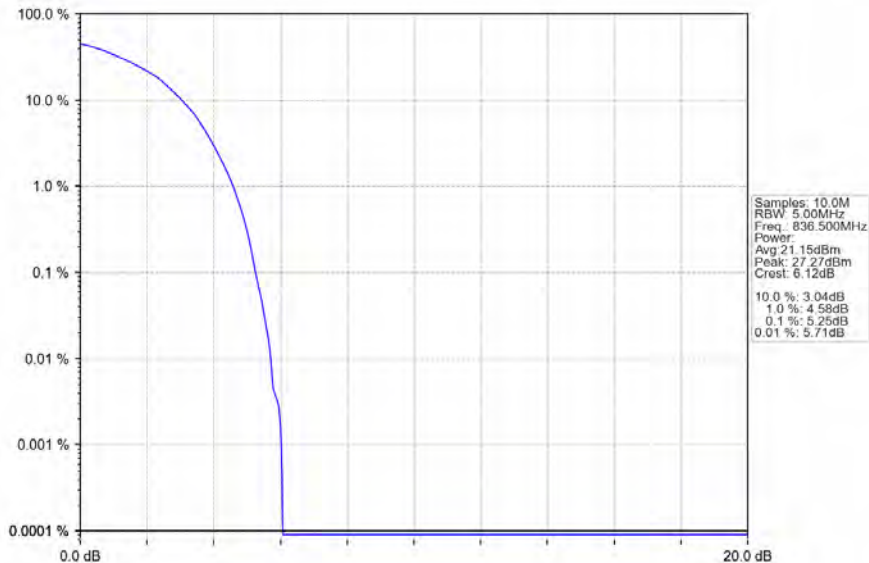
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Band5_1.4MHz_64QAM_LCH_824.7MHz_RB_6_0_NTNV



Band5_1.4MHz_64QAM_MCH_836.5MHz_RB_6_0_NTNV



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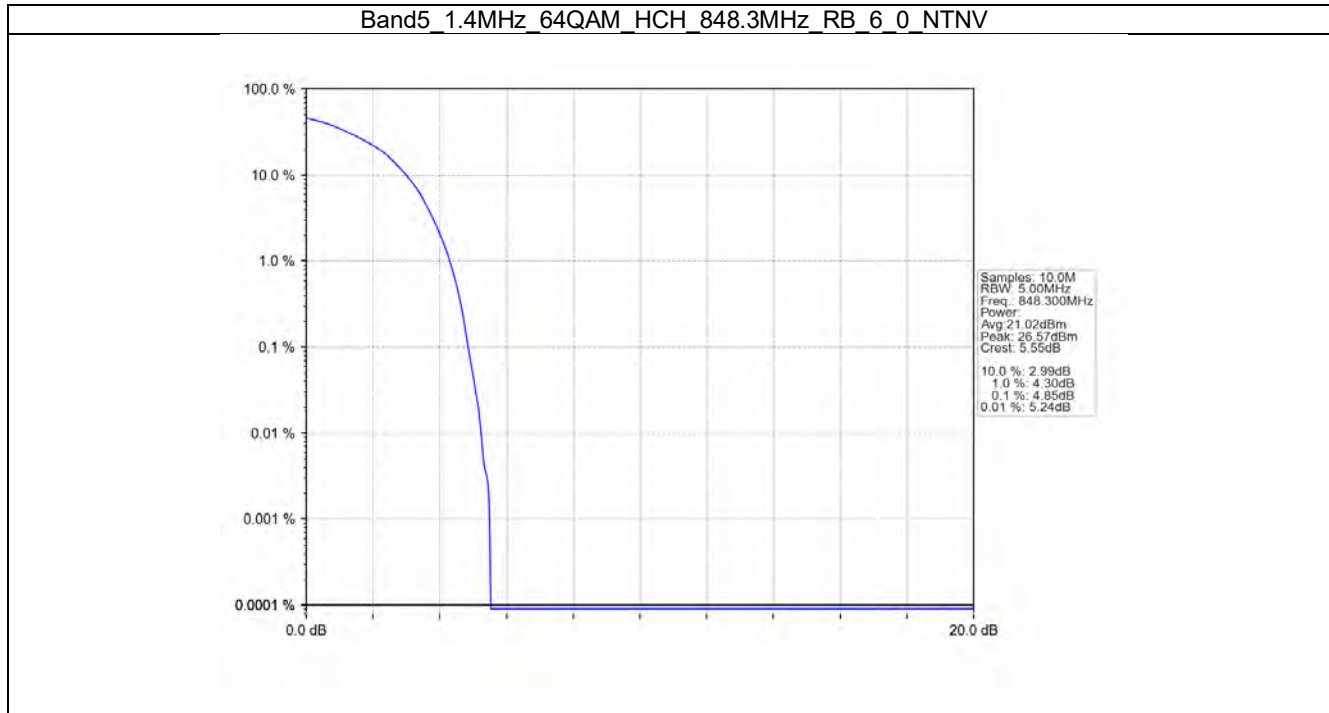
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5.2 B5_3MHz

5.2.1 Test Result

Band: 5 / Bandwidth: 3MHz / NTNV							
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict	
		Size	Offset	Result	Limit		
QPSK	825.5	15	0	5.34	<=13	Pass	
	836.5	15	0	5.21	<=13	Pass	
	847.5	15	0	5.03	<=13	Pass	
16QAM	825.5	15	0	6.10	<=13	Pass	
	836.5	15	0	6.02	<=13	Pass	
	847.5	15	0	5.81	<=13	Pass	
64QAM	825.5	15	0	5.73	<=13	Pass	
	836.5	15	0	5.63	<=13	Pass	
	847.5	15	0	5.49	<=13	Pass	



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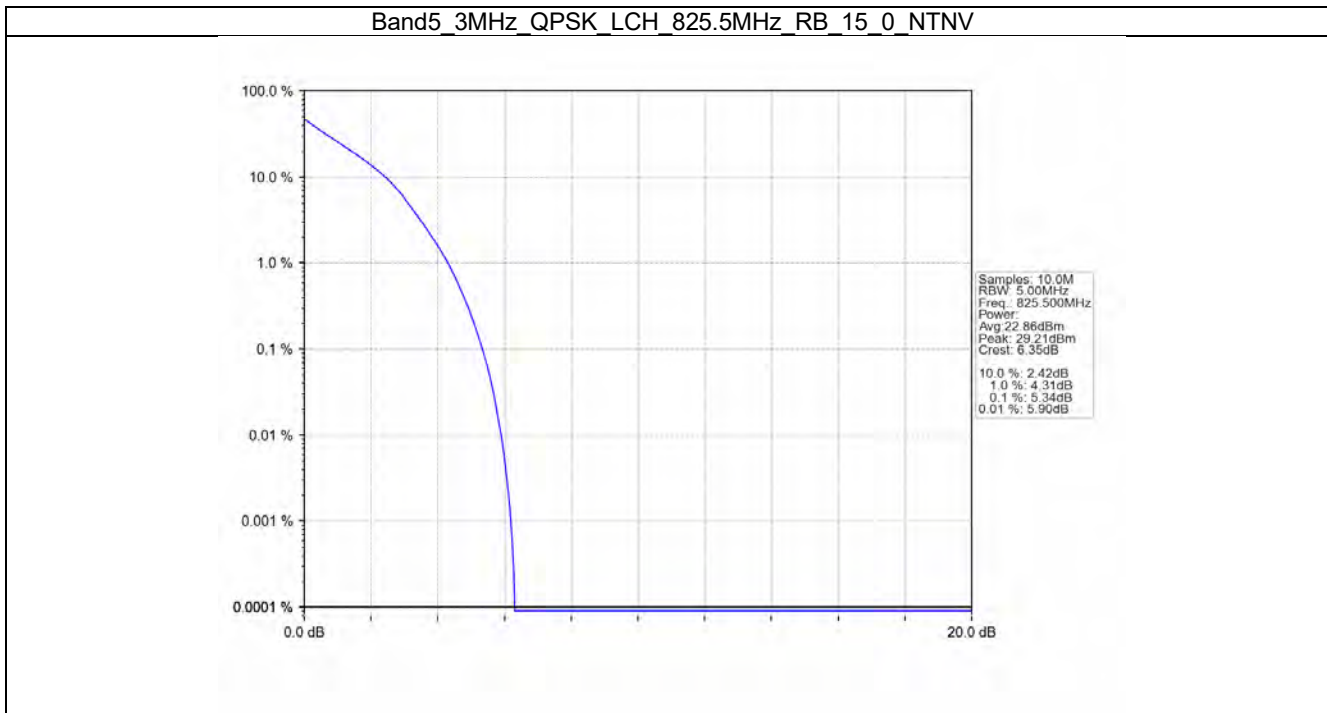
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5.2.2 Test Graph



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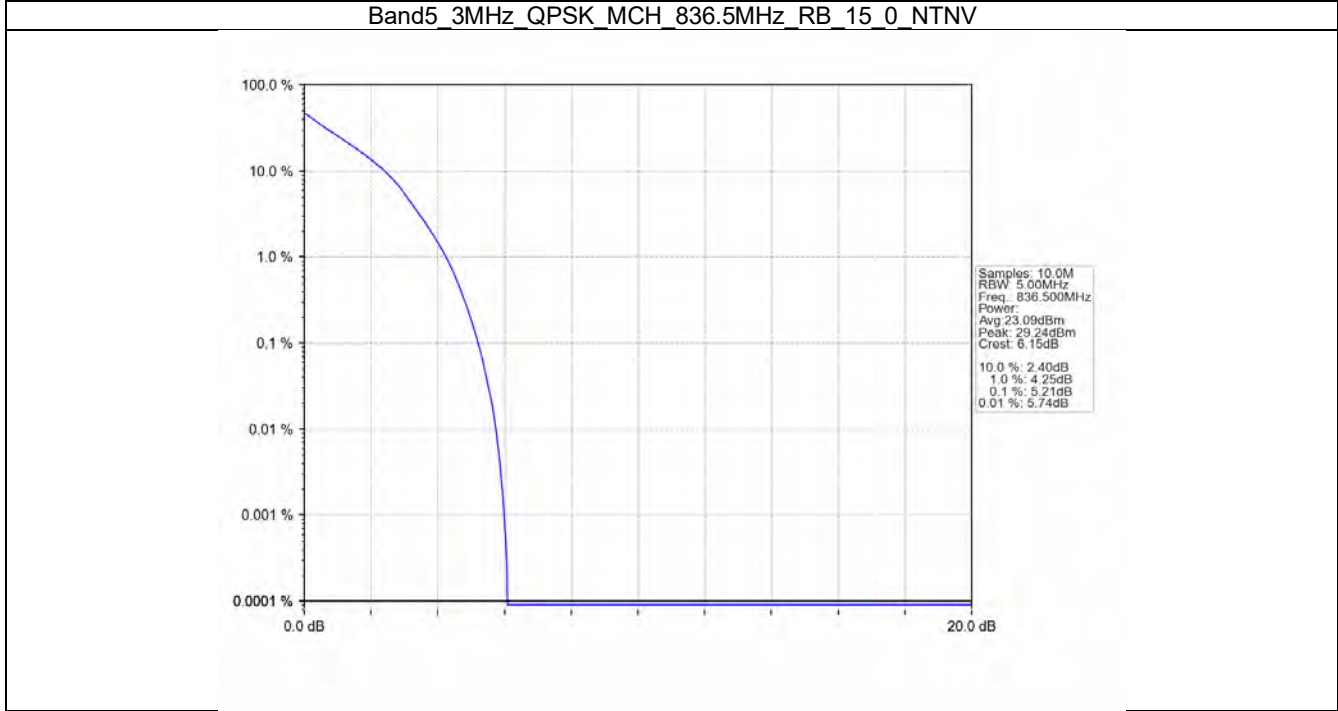
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Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



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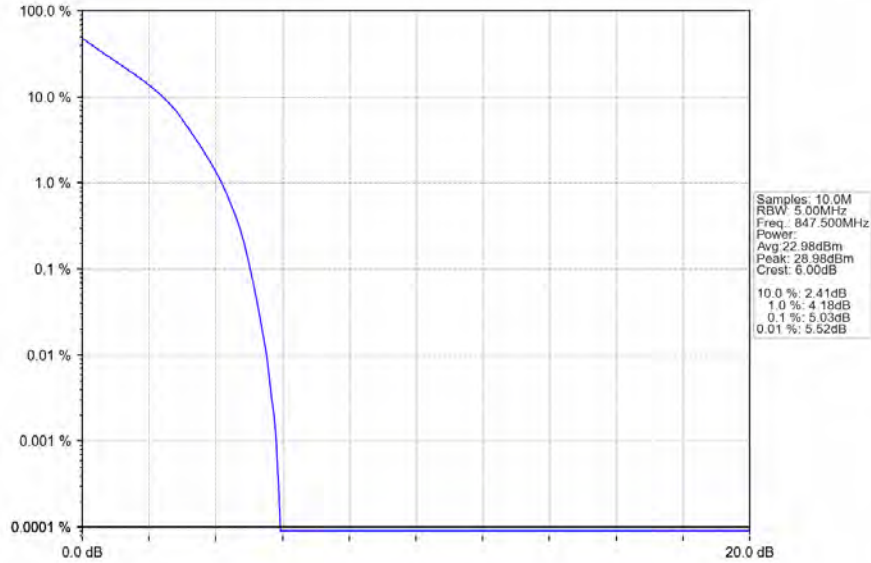
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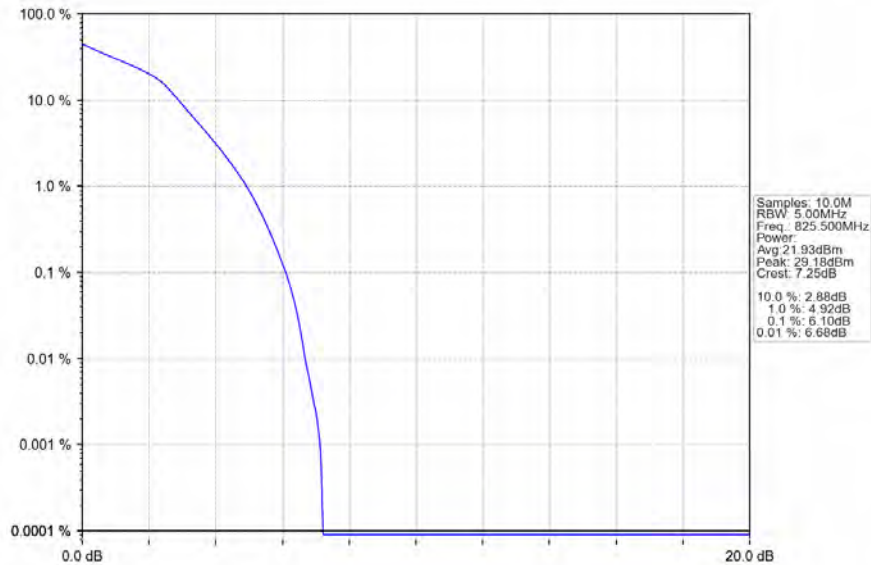
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Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



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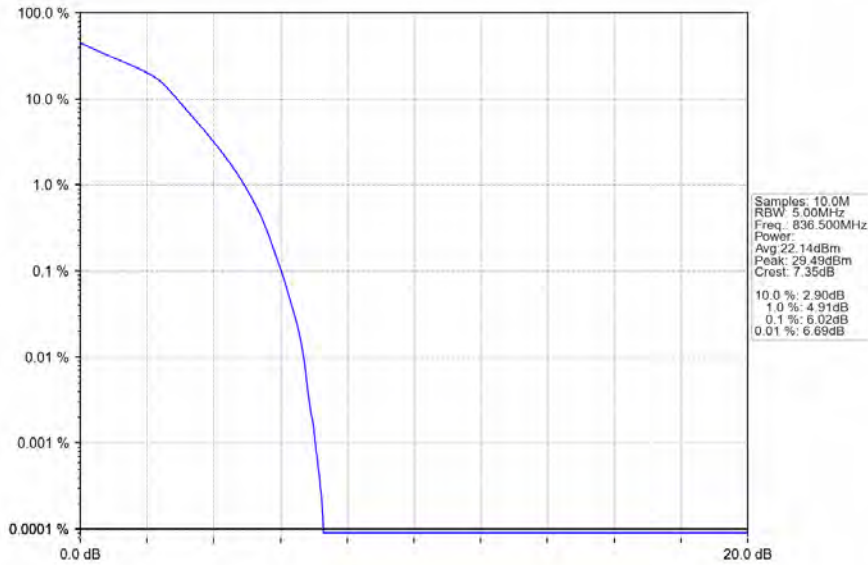
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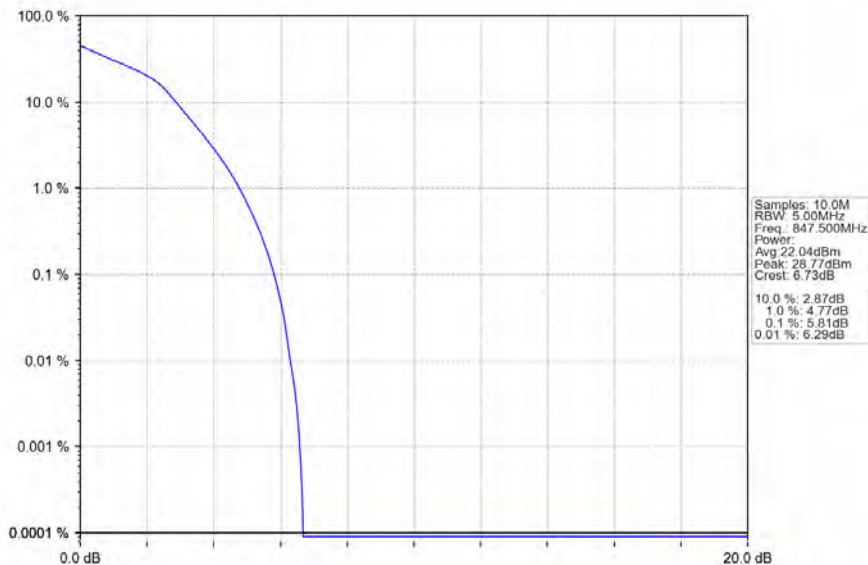
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Band5_3MHz_16QAM_MCH_836.5MHz_RB_15_0_NTNV



Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



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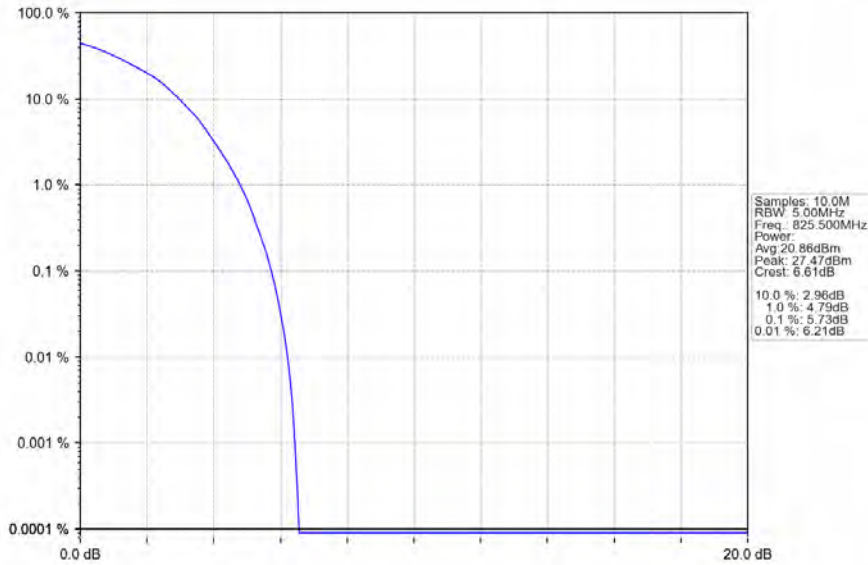
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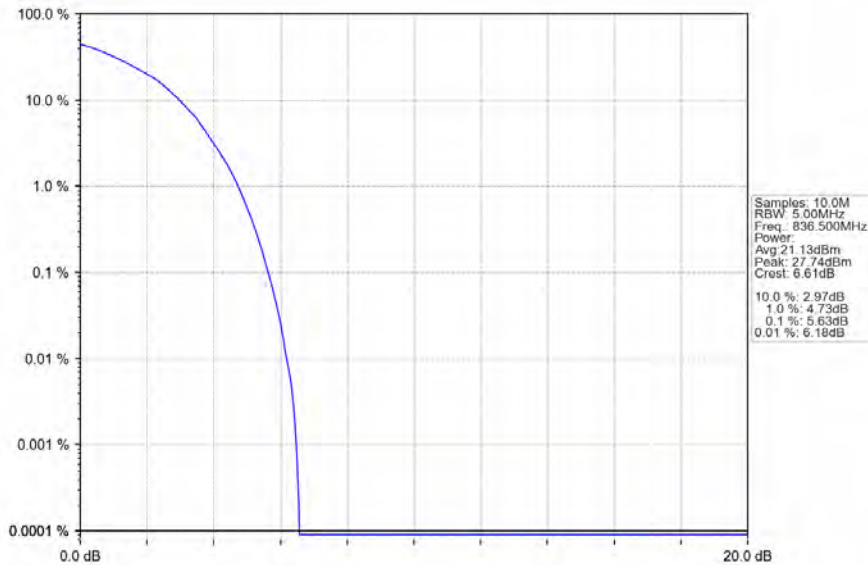
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Band5_3MHz_64QAM_LCH_825.5MHz_RB_15_0_NTNV



Band5_3MHz_64QAM_MCH_836.5MHz_RB_15_0_NTNV



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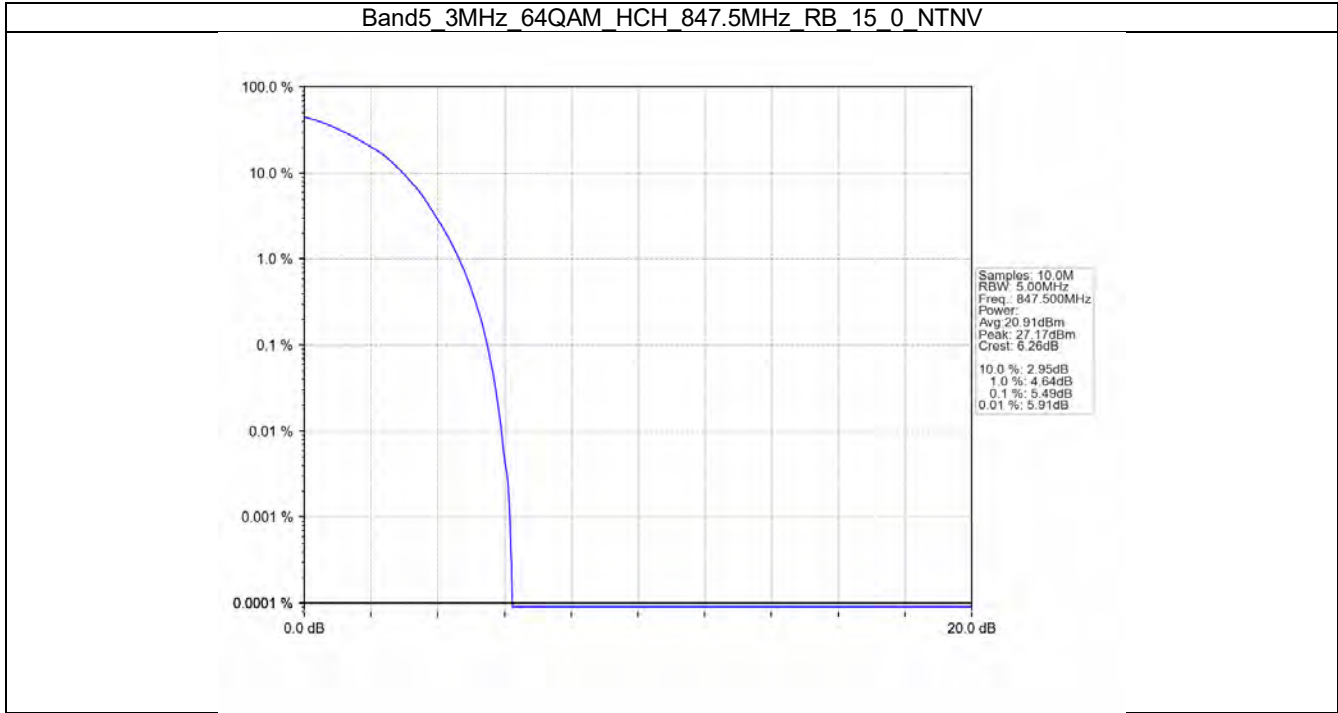
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5.3 B5_5MHz

5.3.1 Test Result

Band: 5 / Bandwidth: 5MHz / NTN							
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict	
		Size	Offset	Result	Limit		
QPSK	826.5	25	0	5.51	<=13	Pass	
	836.5	25	0	5.48	<=13	Pass	
	846.5	25	0	5.40	<=13	Pass	
16QAM	826.5	25	0	6.16	<=13	Pass	
	836.5	25	0	6.15	<=13	Pass	
	846.5	25	0	6.09	<=13	Pass	
64QAM	826.5	25	0	5.97	<=13	Pass	
	836.5	25	0	5.96	<=13	Pass	
	846.5	25	0	5.90	<=13	Pass	



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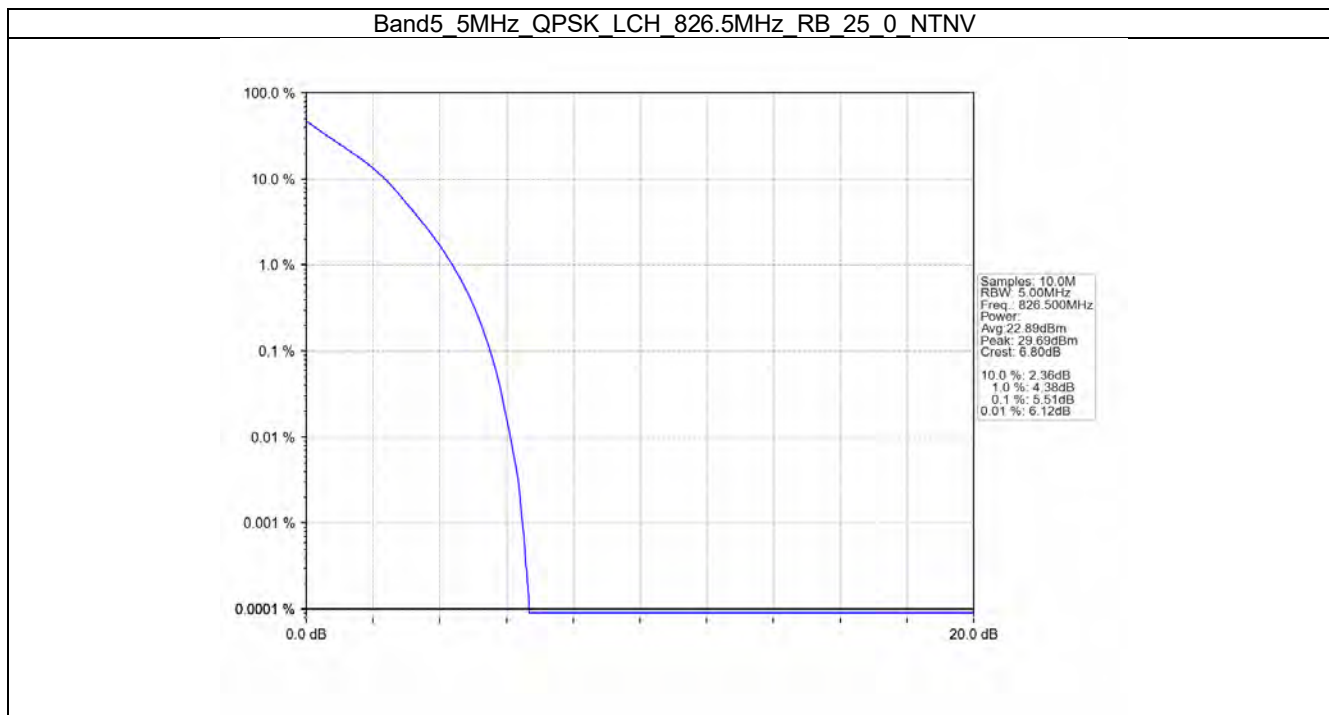
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5.3.2 Test Graph



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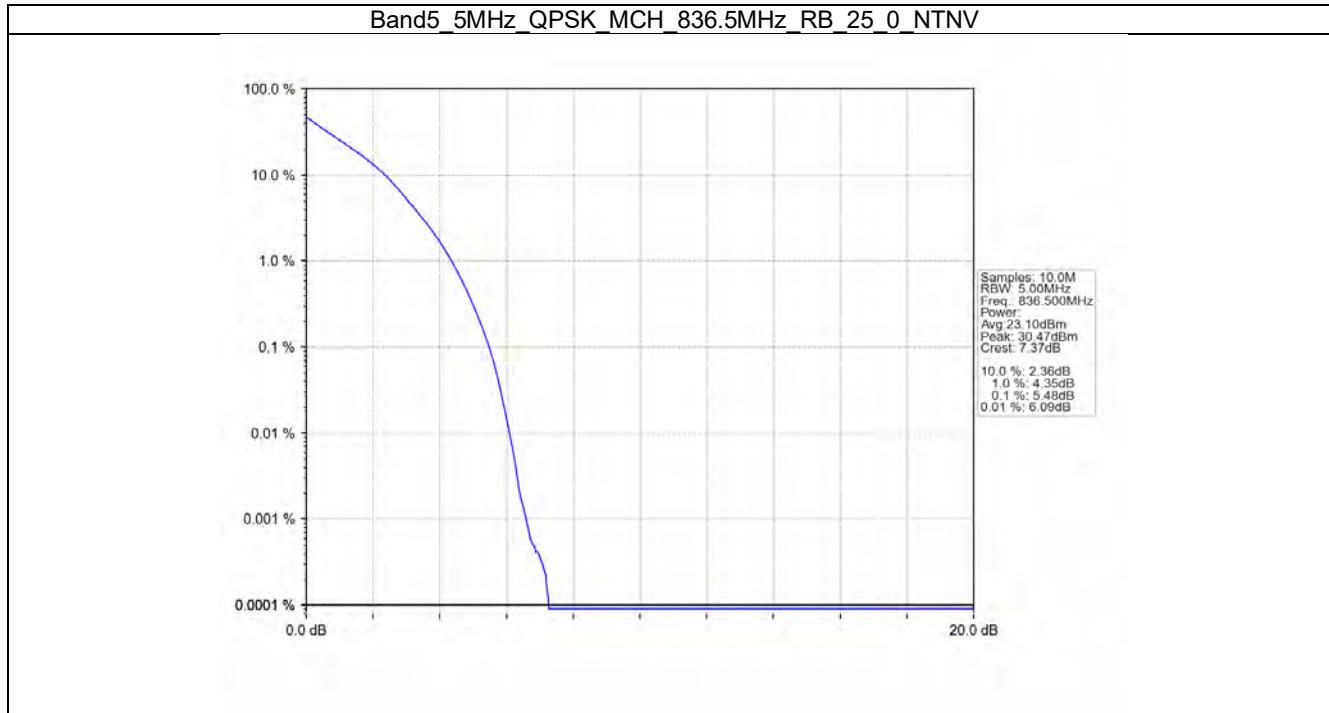
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Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



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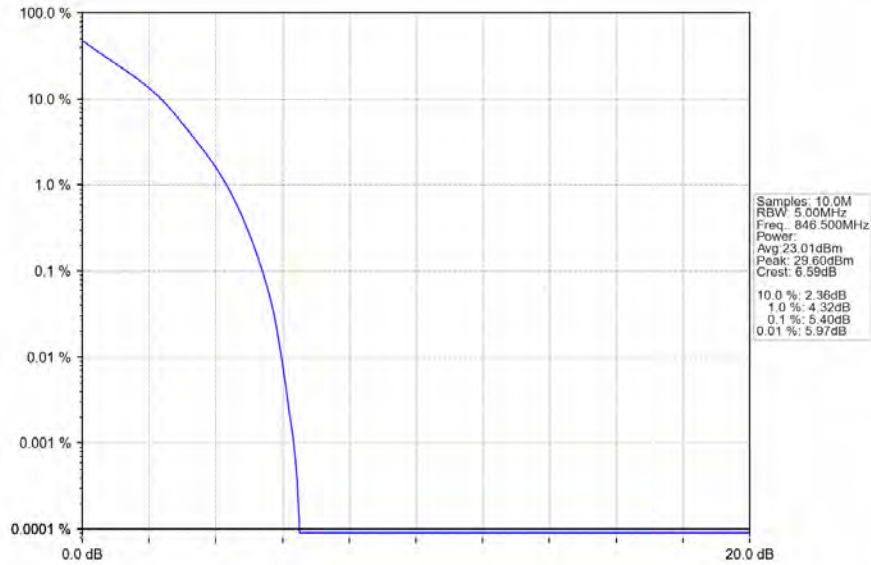
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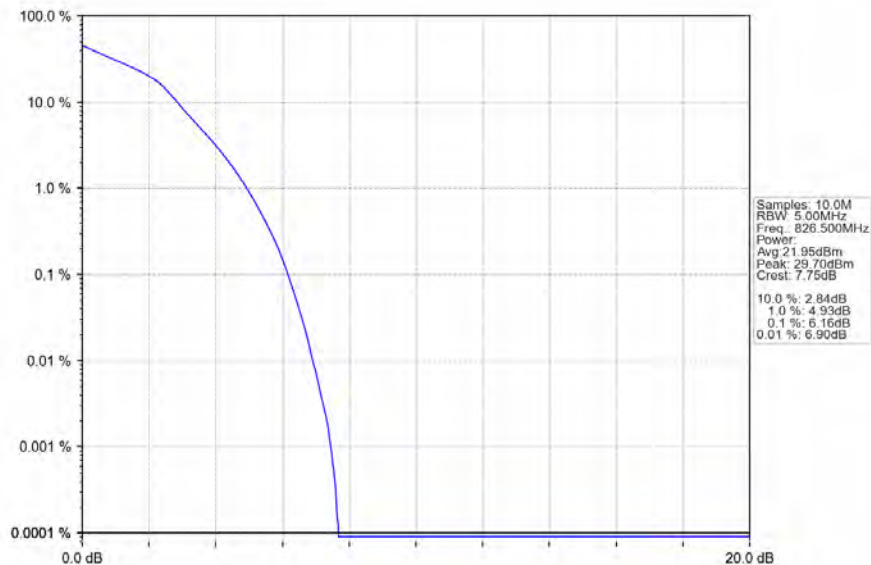
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Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



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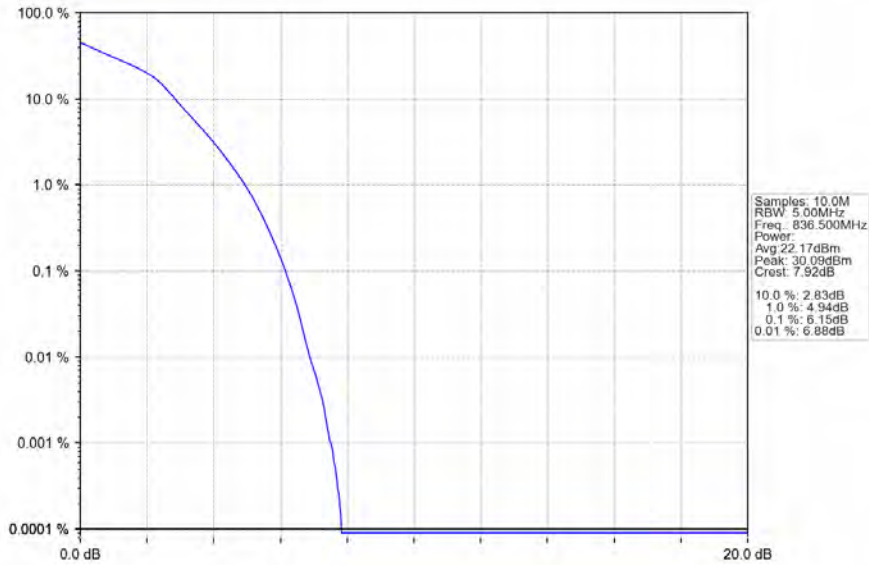
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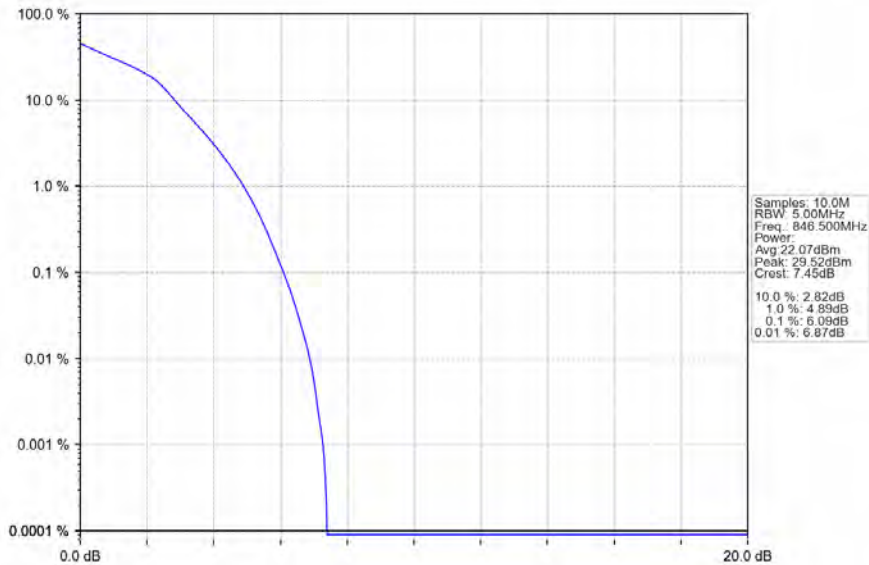
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Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



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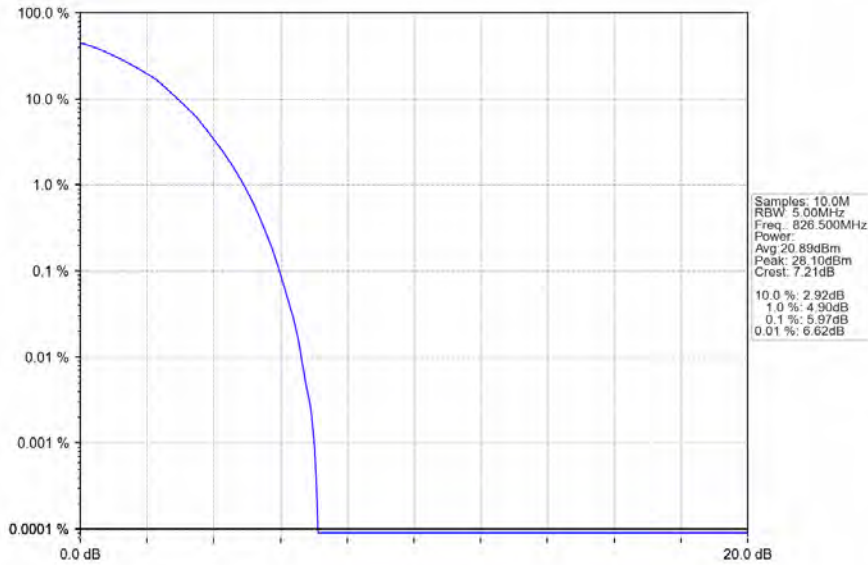
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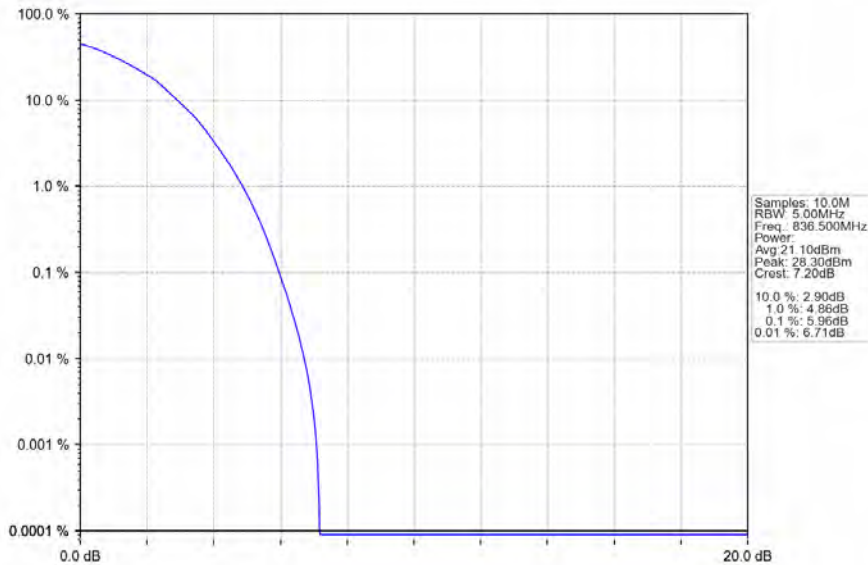
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Band5_5MHz_64QAM_LCH_826.5MHz_RB_25_0_NTNV



Band5_5MHz_64QAM_MCH_836.5MHz_RB_25_0_NTNV



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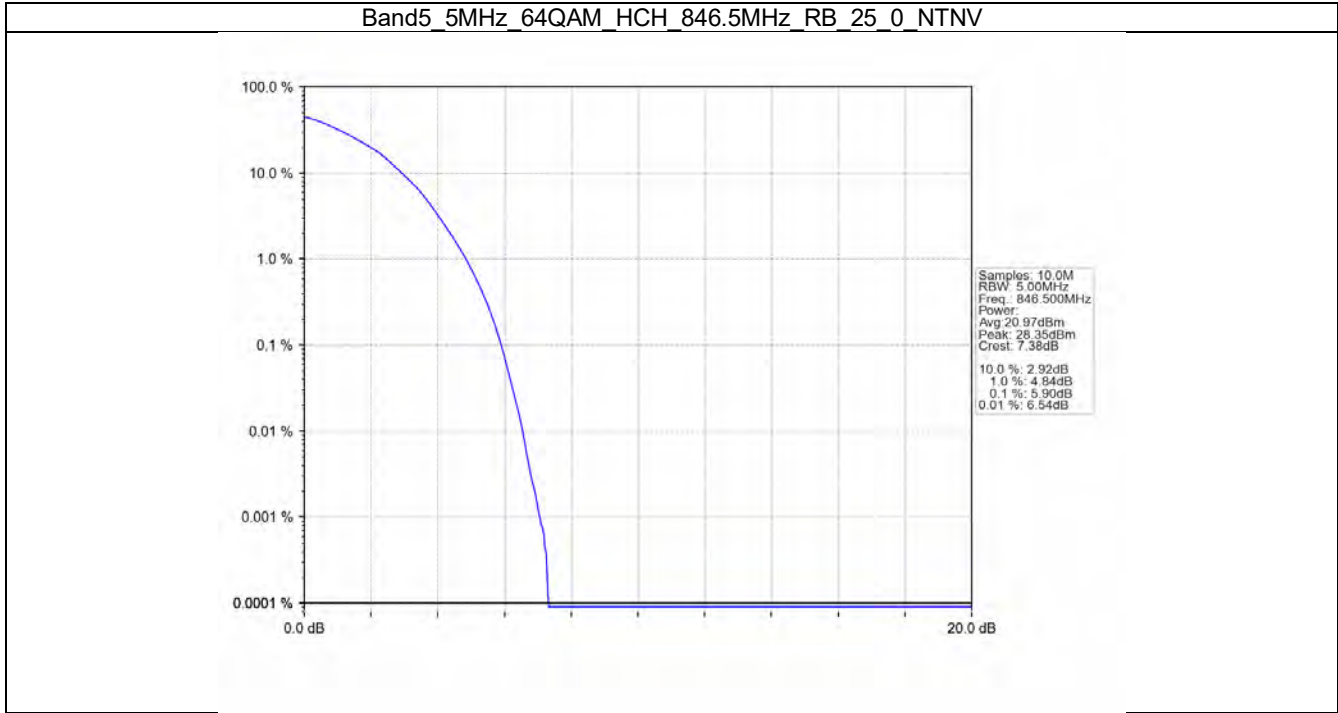
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5.4 B5_10MHz

5.4.1 Test Result

Band: 5 / Bandwidth: 10MHz / NTN						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	829	50	0	5.45	<=13	Pass
	836.5	50	0	5.41	<=13	Pass
	844	50	0	5.47	<=13	Pass
16QAM	829	50	0	6.14	<=13	Pass
	836.5	50	0	6.18	<=13	Pass
	844	50	0	6.18	<=13	Pass
64QAM	829	50	0	5.96	<=13	Pass
	836.5	50	0	5.97	<=13	Pass
	844	50	0	5.99	<=13	Pass



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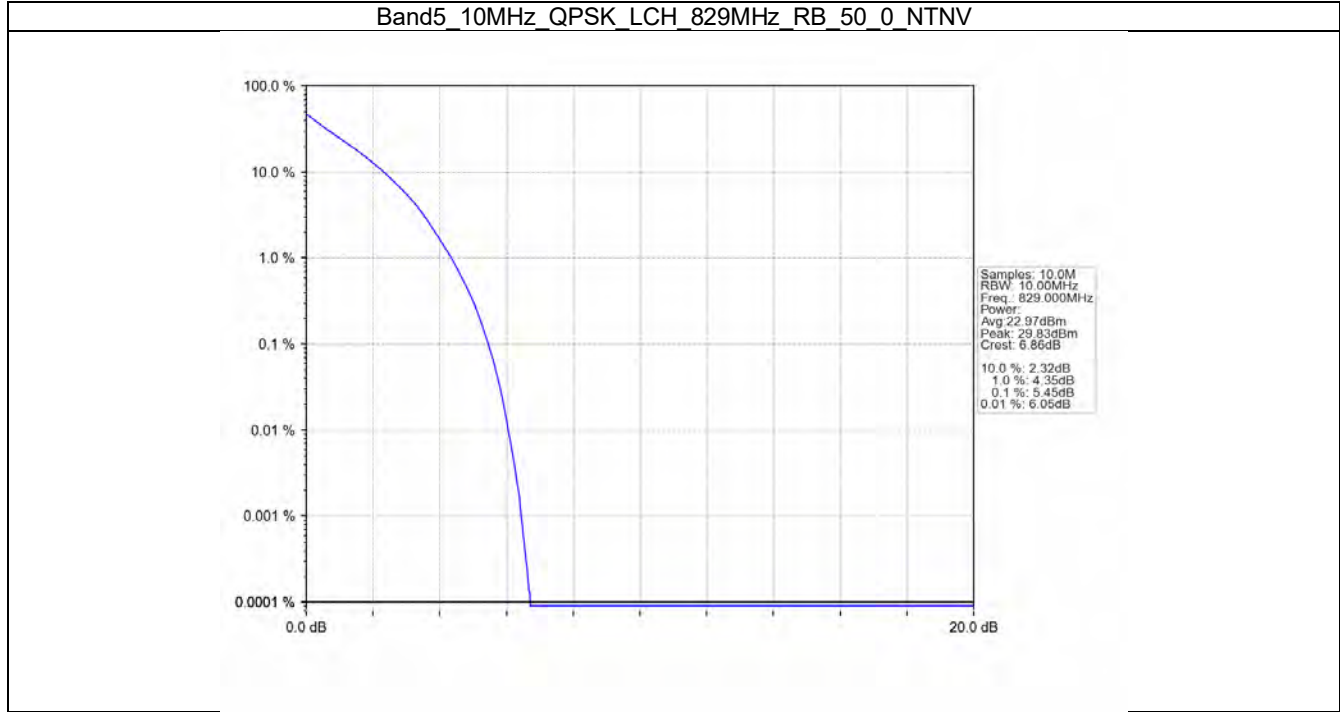
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5.4.2 Test Graph



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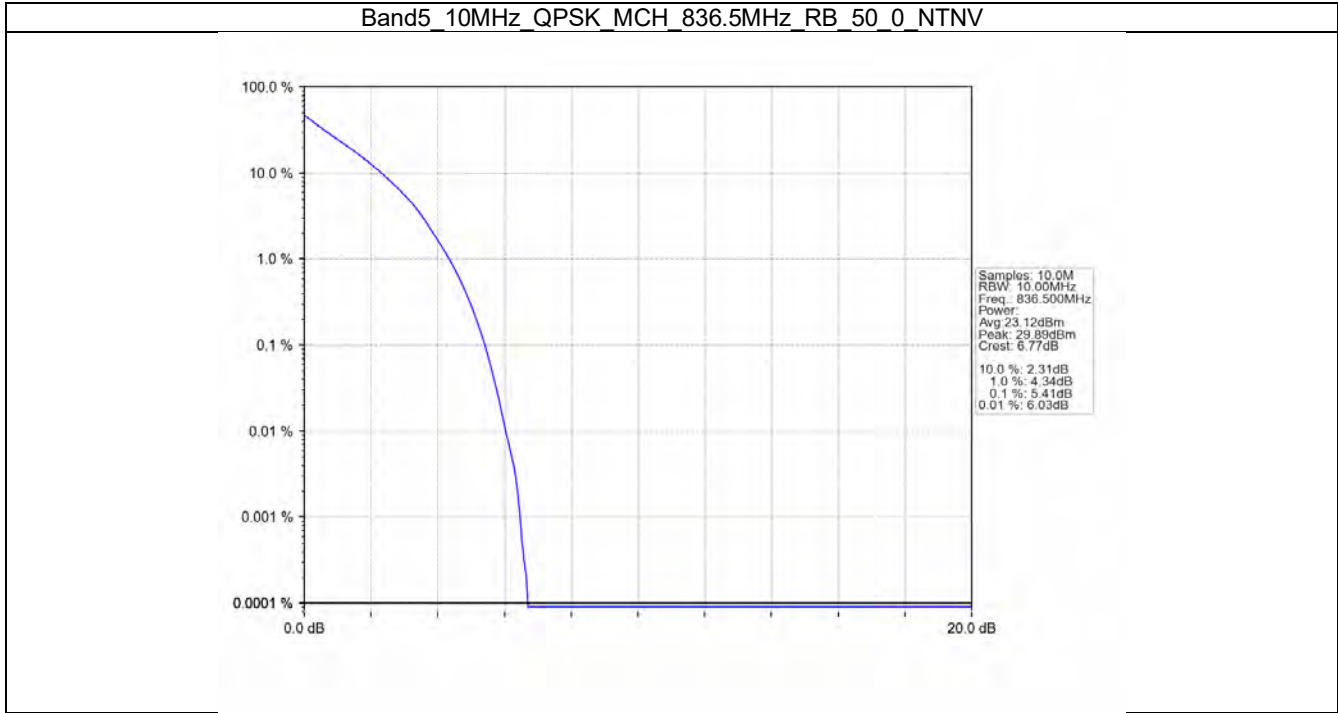
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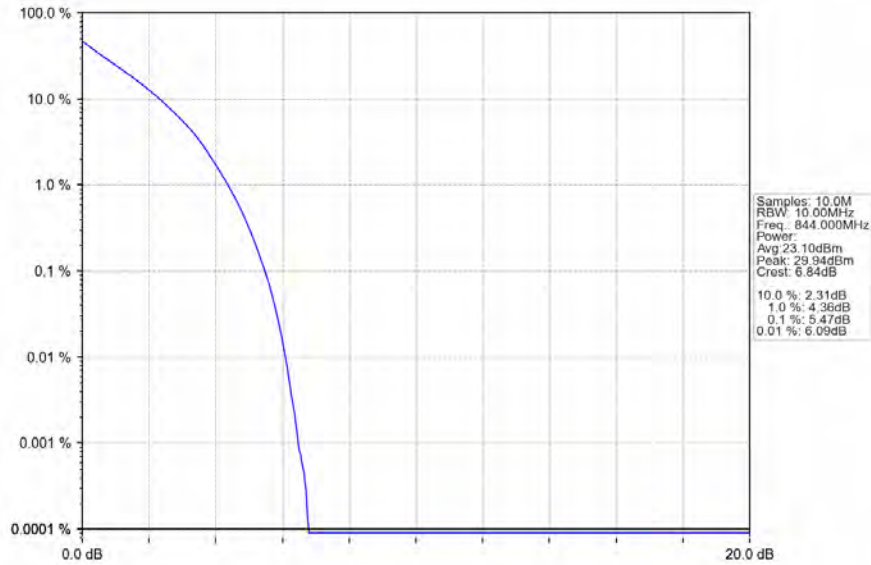
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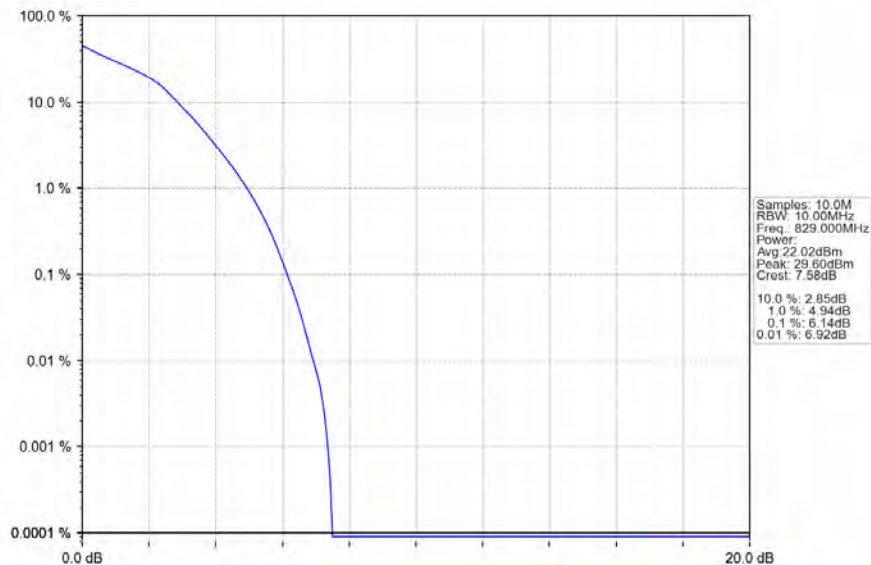
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Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



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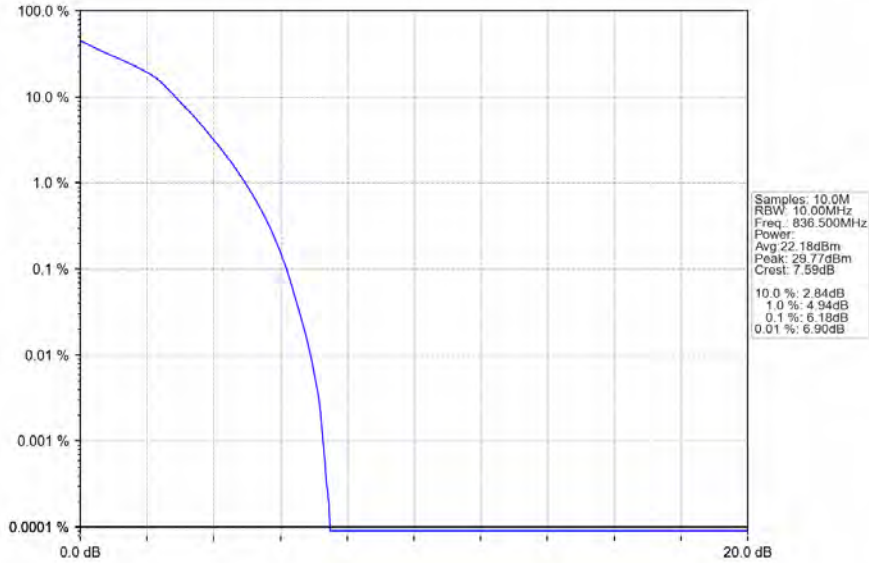
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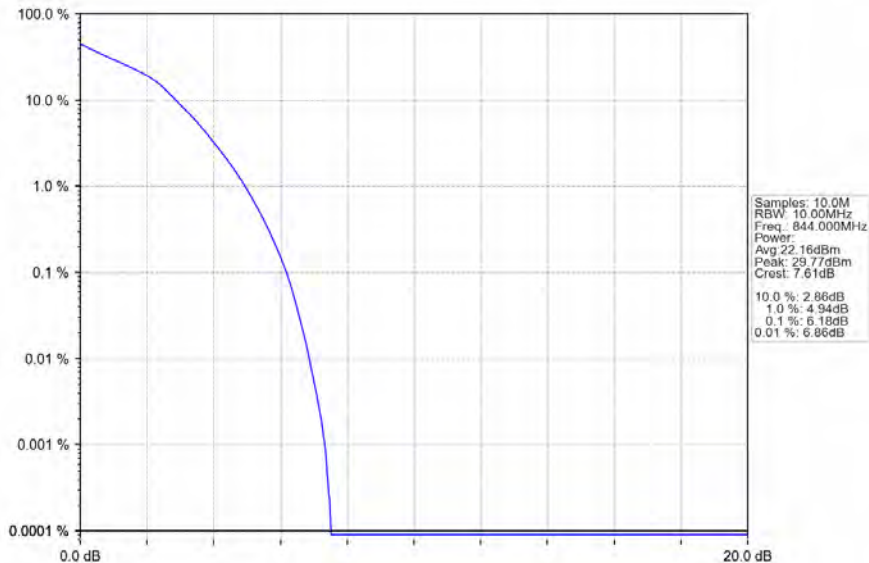
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Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV



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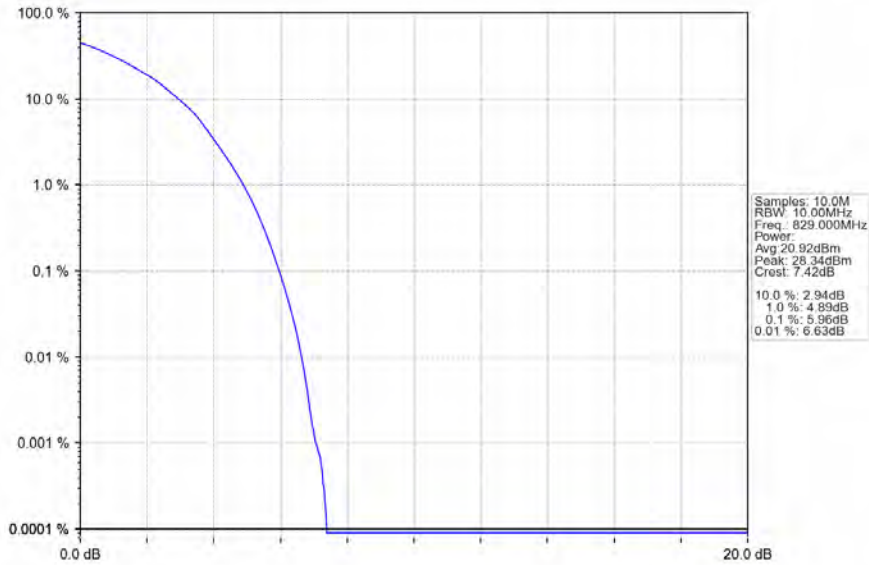
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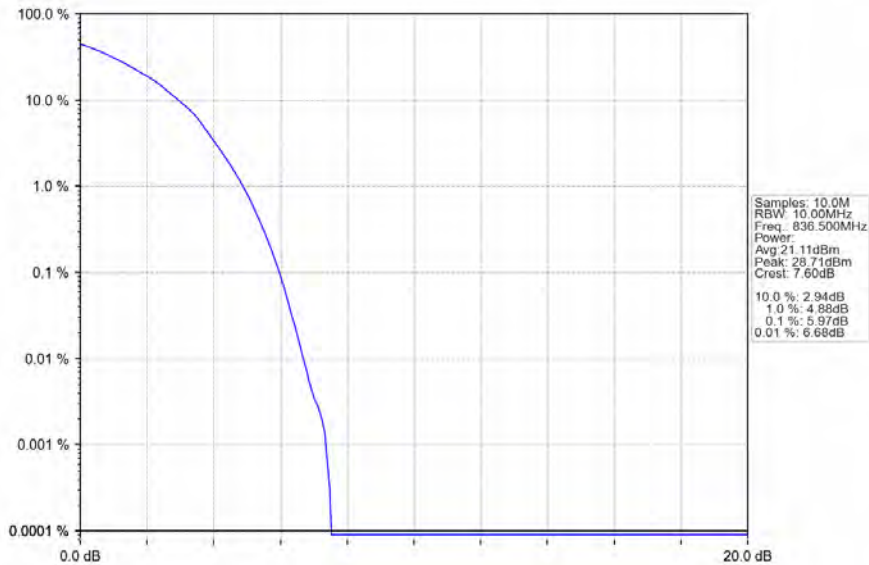
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Band5_10MHz_64QAM_LCH_829MHz_RB_50_0_NTNV



Band5_10MHz_64QAM_MCH_836.5MHz_RB_50_0_NTNV



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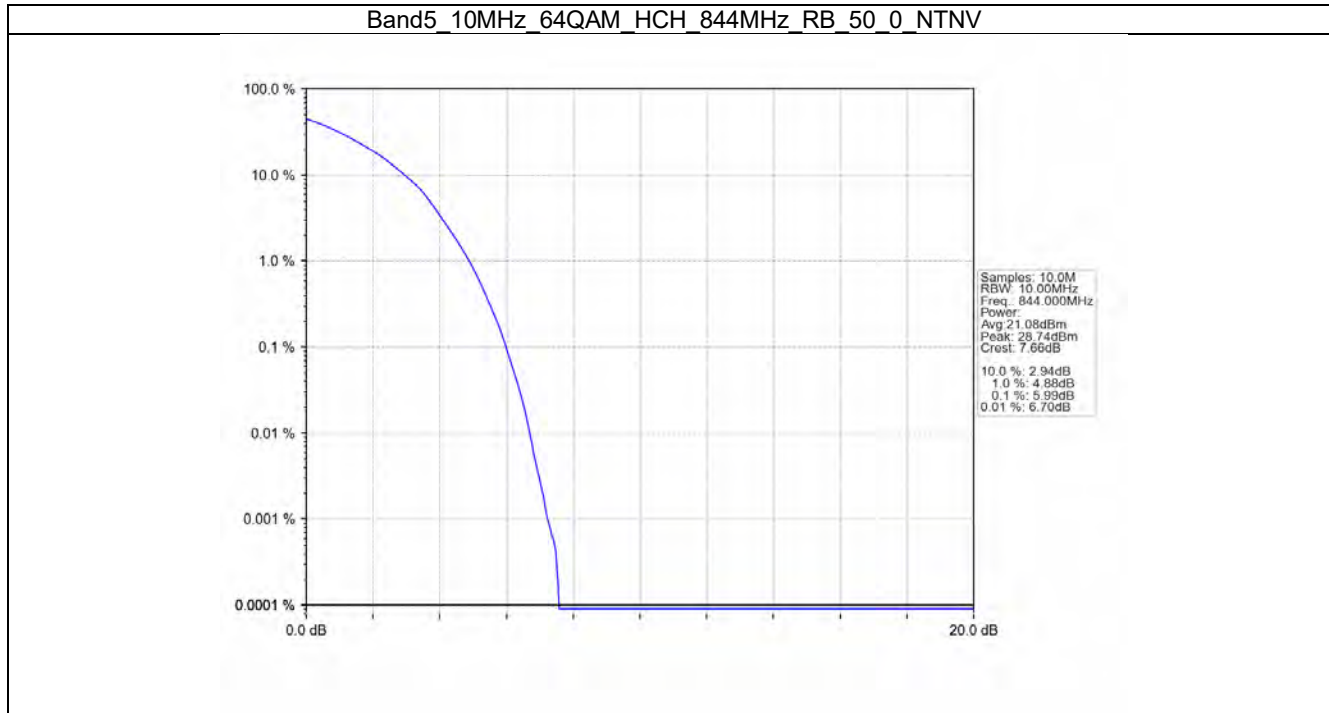
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Band5_10MHz_64QAM_HCH_844MHz_RB_50_0_NTNV



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6. Spurious Emission & Band Edge

6.1 B5_1.4MHz

6.1.1 Test Result

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	
			5		Refer To Test Graph	
		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	
			5		Refer To Test Graph	
		6	0	Refer To Test Graph		Pass
64QAM	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	
			5		Refer To Test Graph	
		6	0	Refer To Test Graph		Pass



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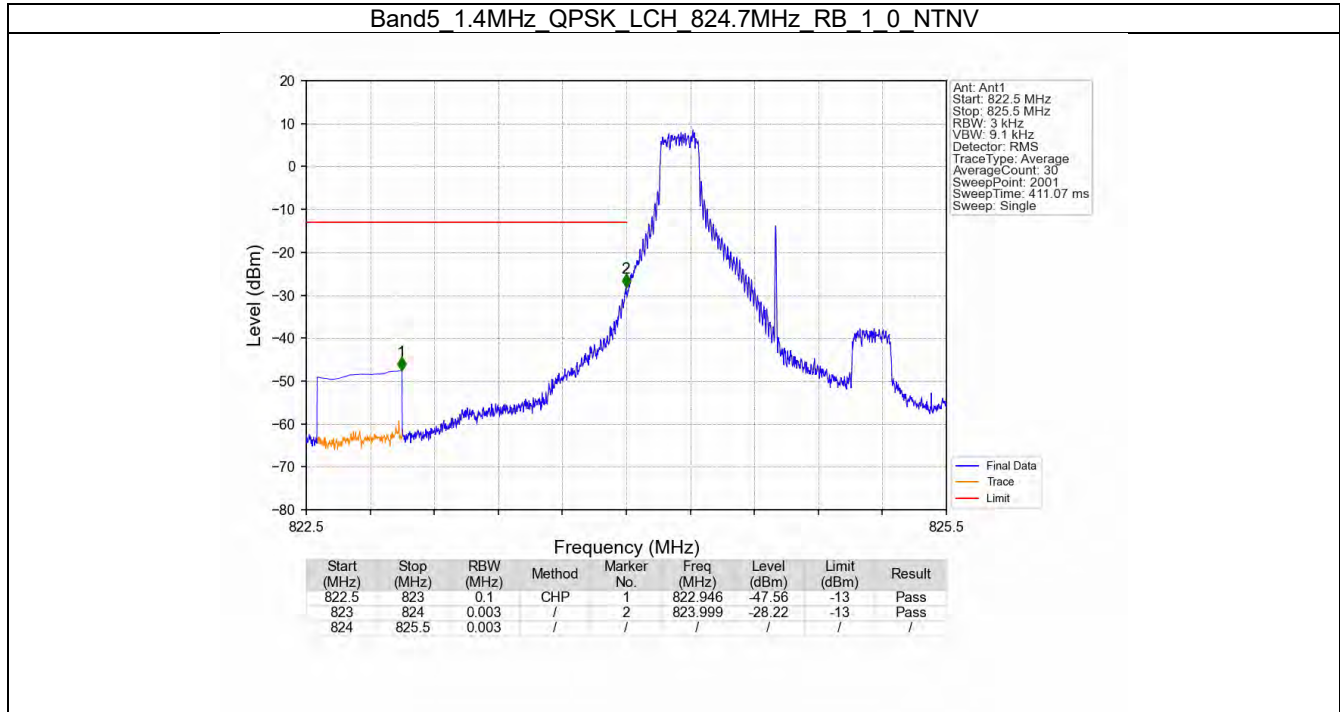
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6.1.2 Test Graph



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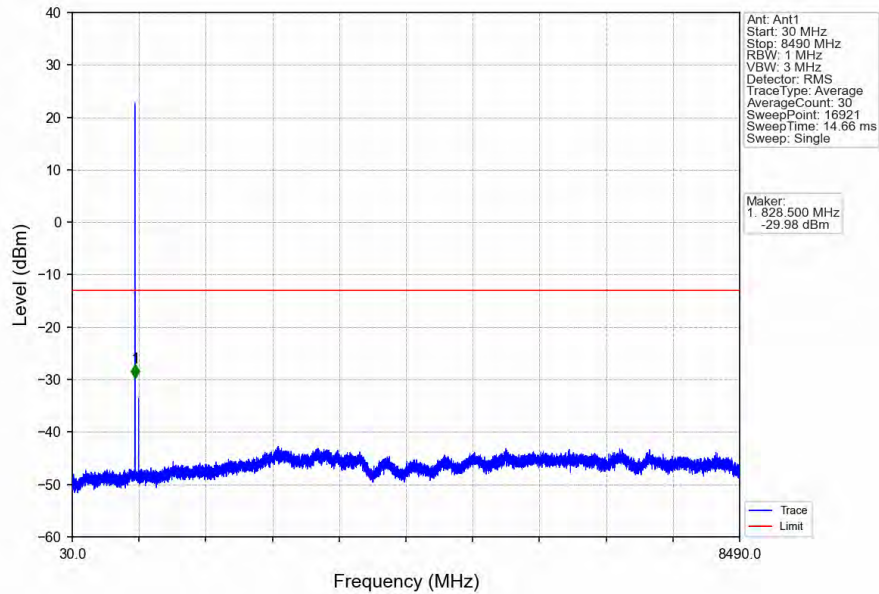
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Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_1_0_NTNV



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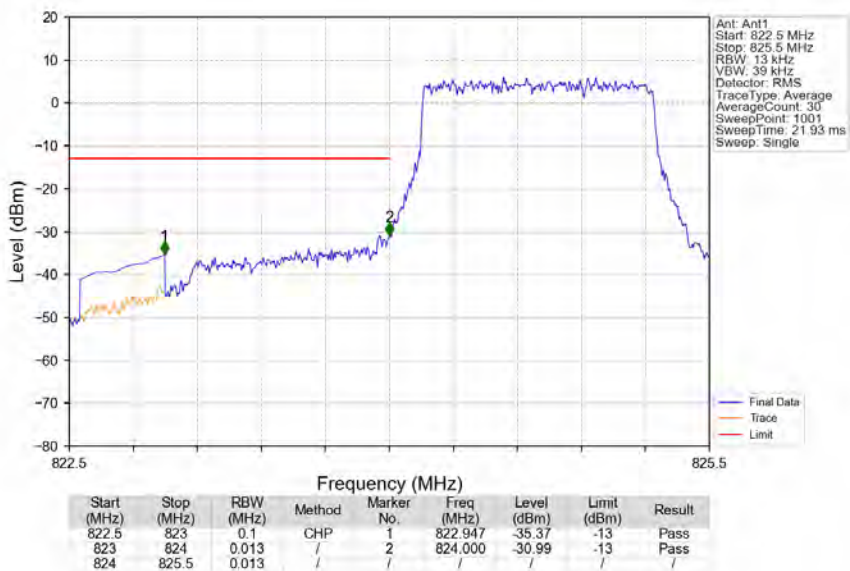
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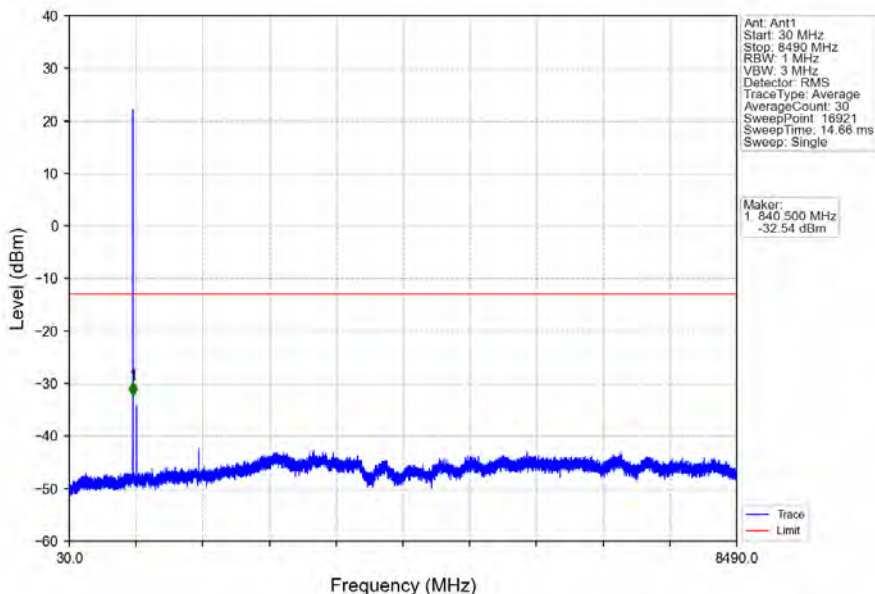
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Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



Band5_1.4MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



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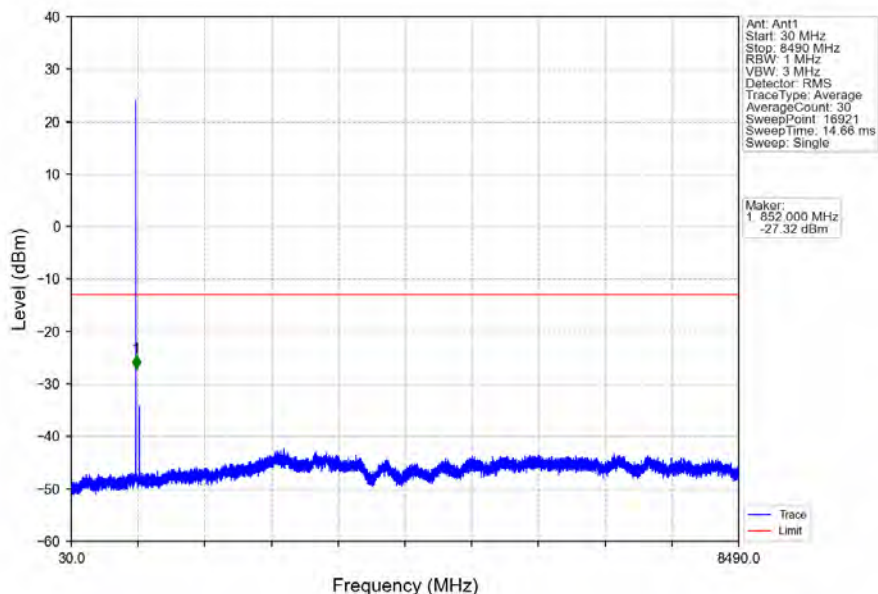
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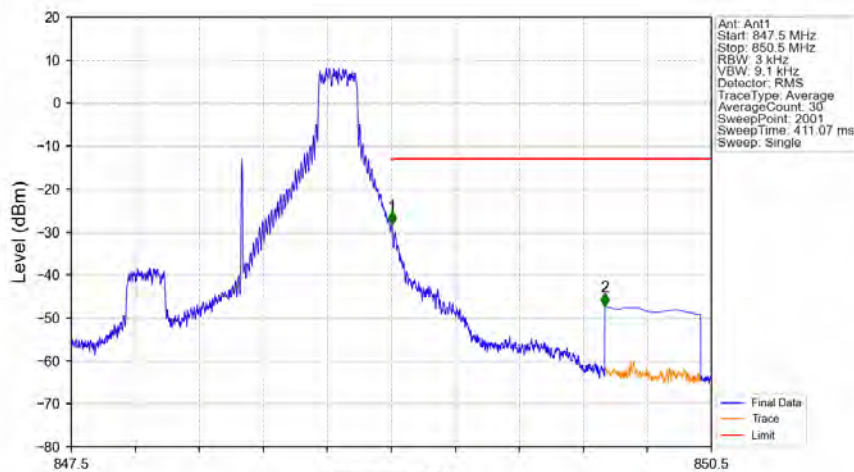
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and5_1.4MHz_QPSK_HCH_848.3MHz_RB_1_0_NTNV



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	/	1	849.003	-28.35	-13	Pass
849	850	0.003	/	1	849.003	-28.35	-13	Pass
850	850.5	0.1	CHP	2	850.000	-47.31	-13	Pass



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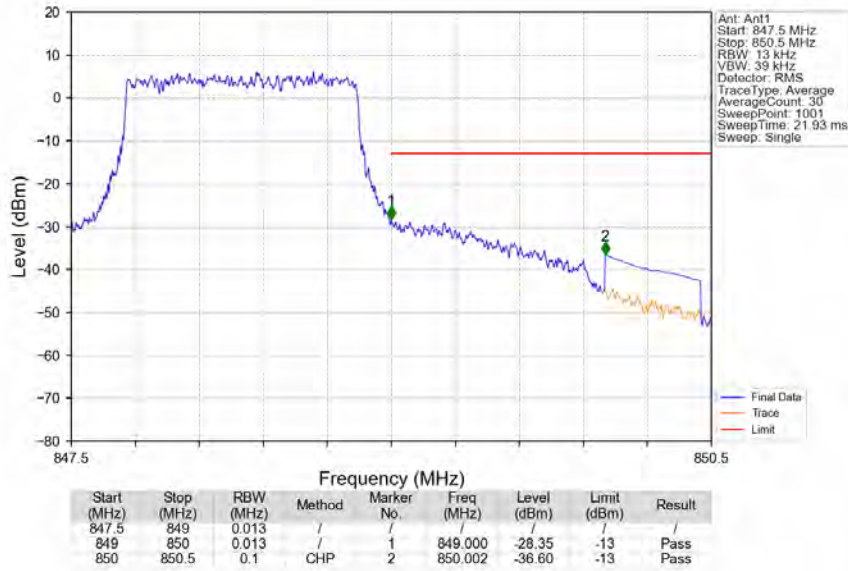
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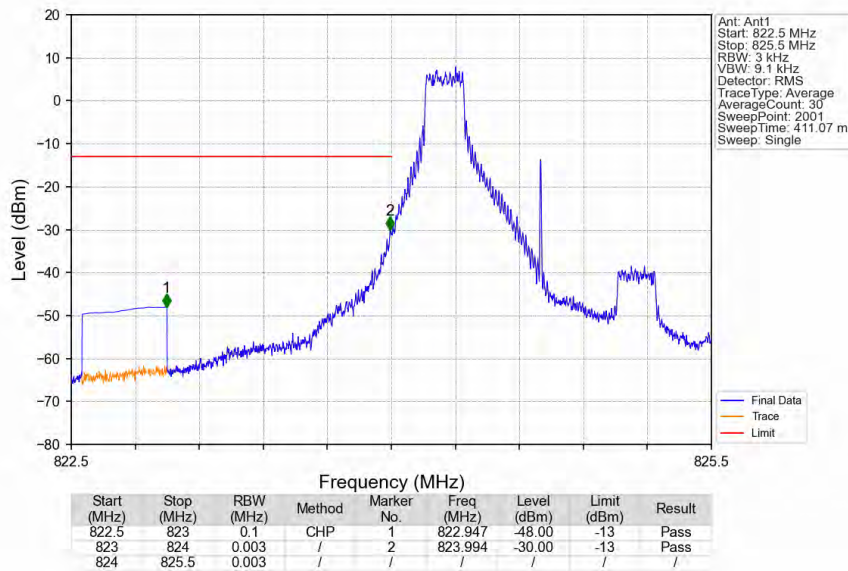
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Band5 1.4MHz QPSK HCH 848.3MHz RB 6_0 NTVN



Band5 1.4MHz 16QAM LCH 824.7MHz RB 1_0 NTVN



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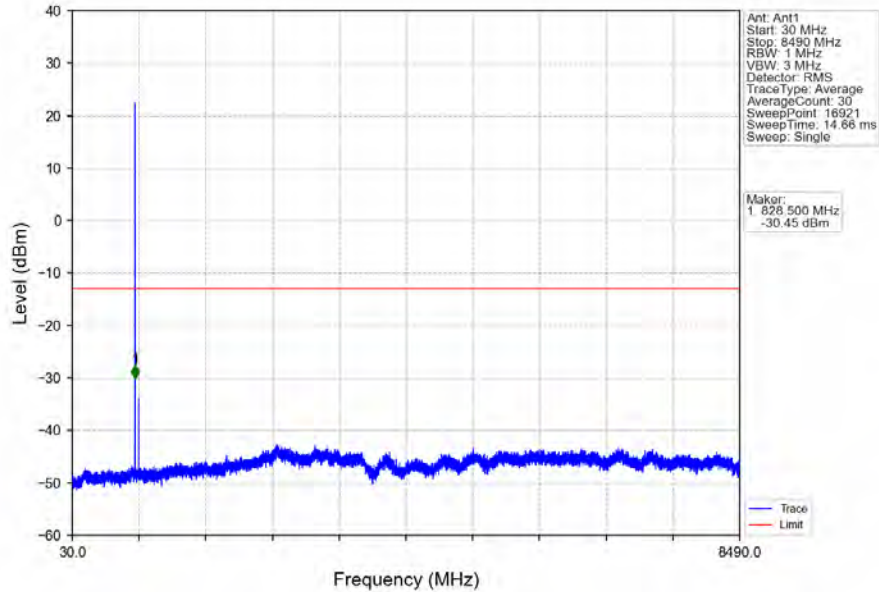
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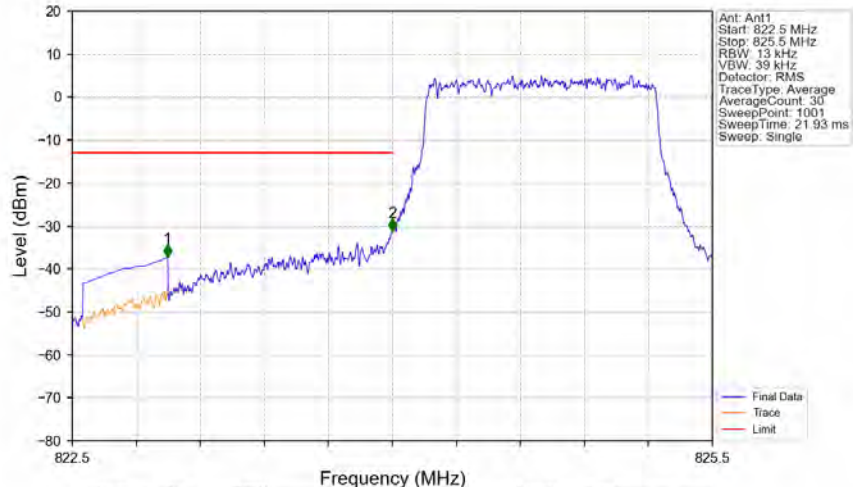
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Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



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	-37.32	-13	Pass
823	824	0.013	/	2	824.000	-31.37	-13	Pass
824	825.5	0.013	/	/	/	/	/	/



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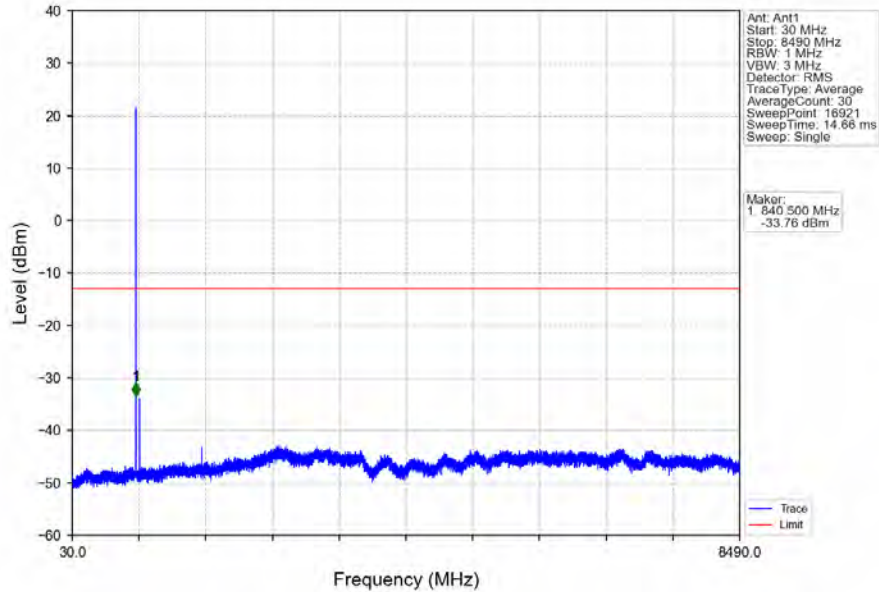
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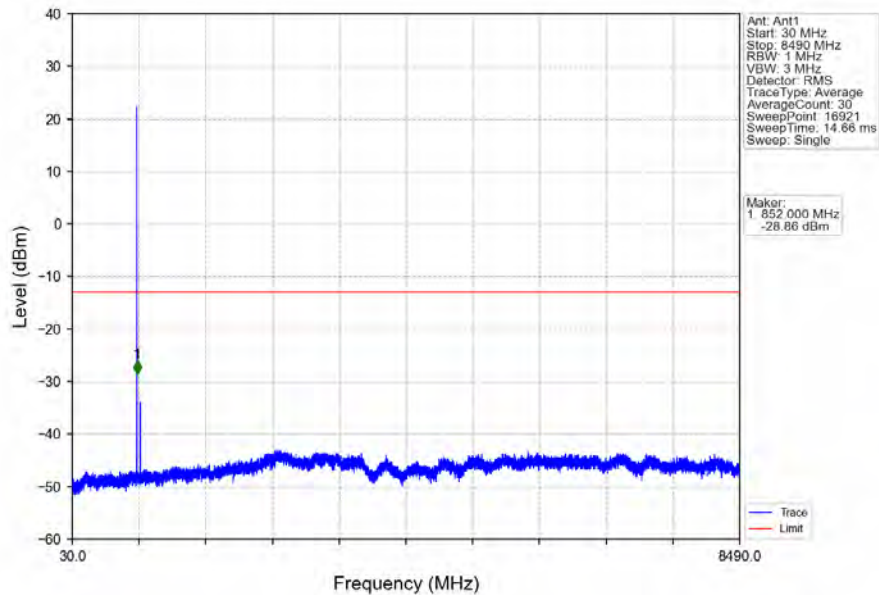
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Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_1_0_NTV



Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_1_0_NTV



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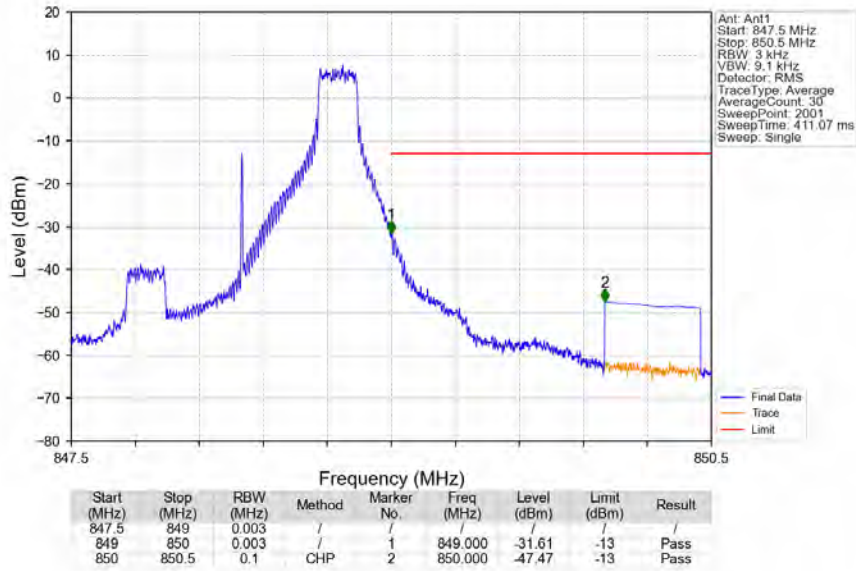
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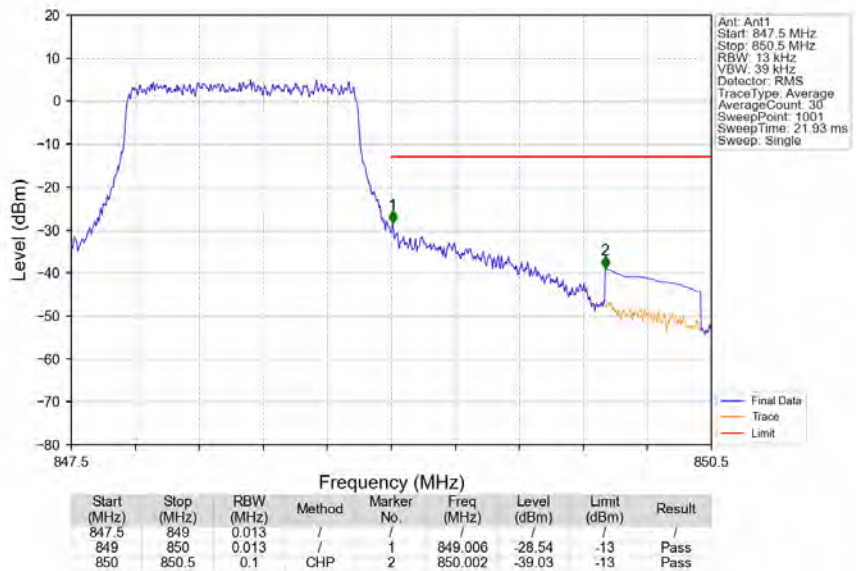
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Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_1_5_NTNV



Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



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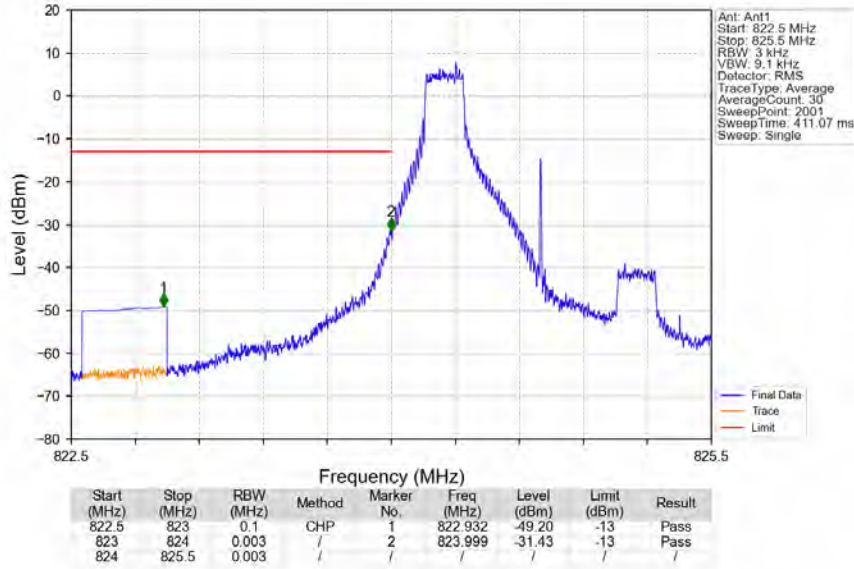
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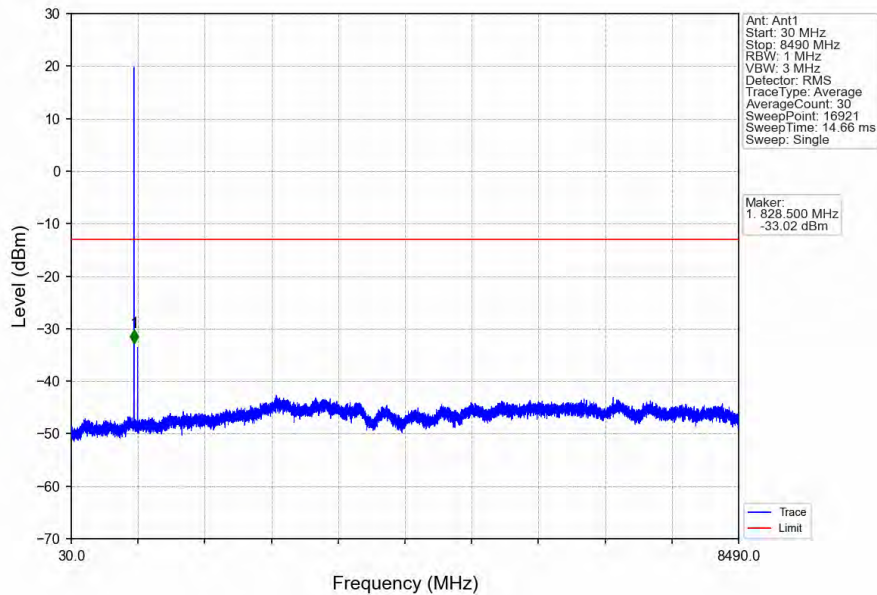
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Band5_1.4MHz_64QAM_LCH_824.7MHz_RB_1_0_NTNV



Band5_1.4MHz_64QAM_LCH_824.7MHz_RB_1_0_NTNV



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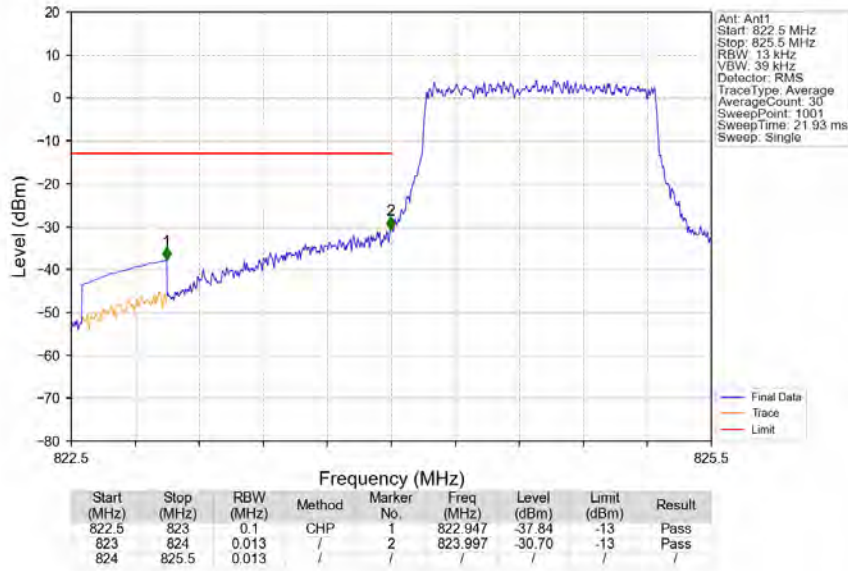
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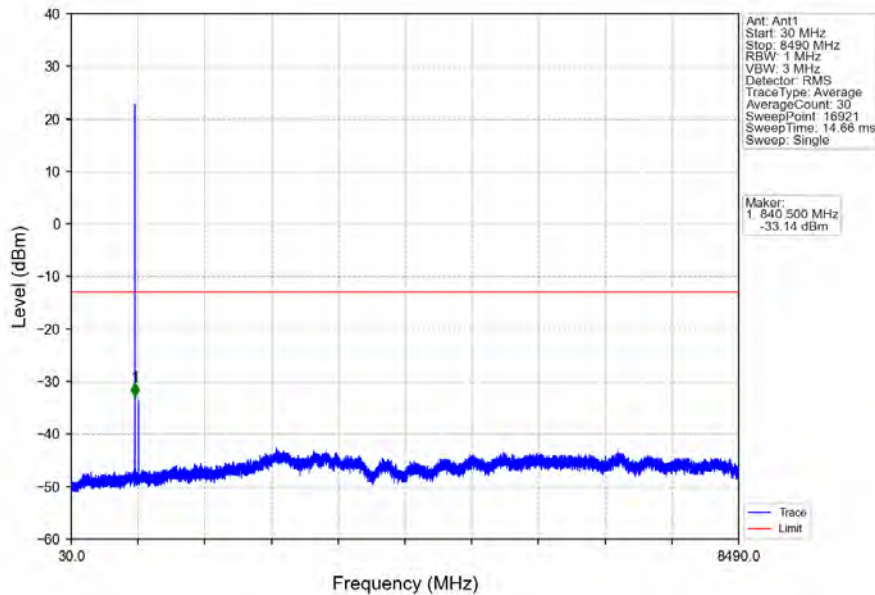
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Band5_1.4MHz_64QAM_LCH_824.7MHz_RB_6_0_NTNV



Band5_1.4MHz_64QAM_MCH_836.5MHz_RB_1_0_NTNV



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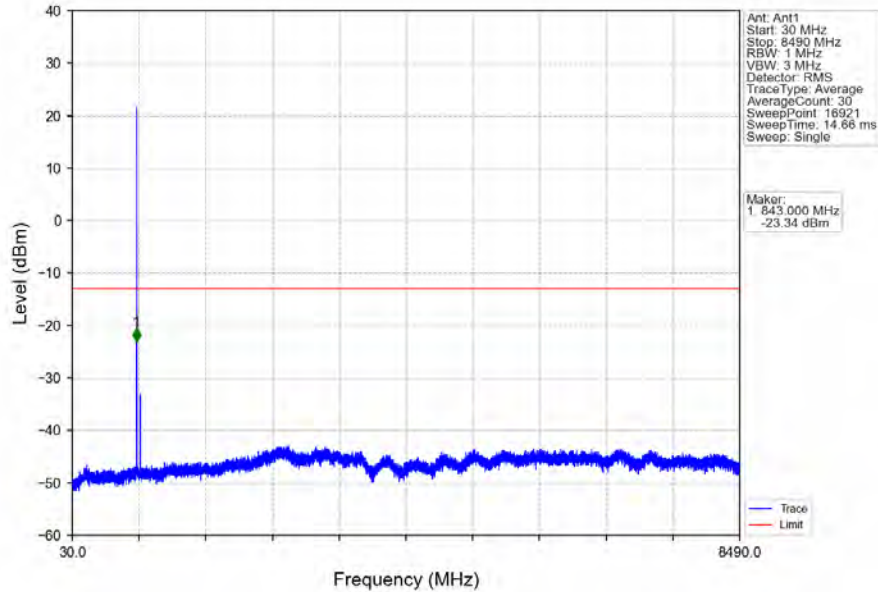
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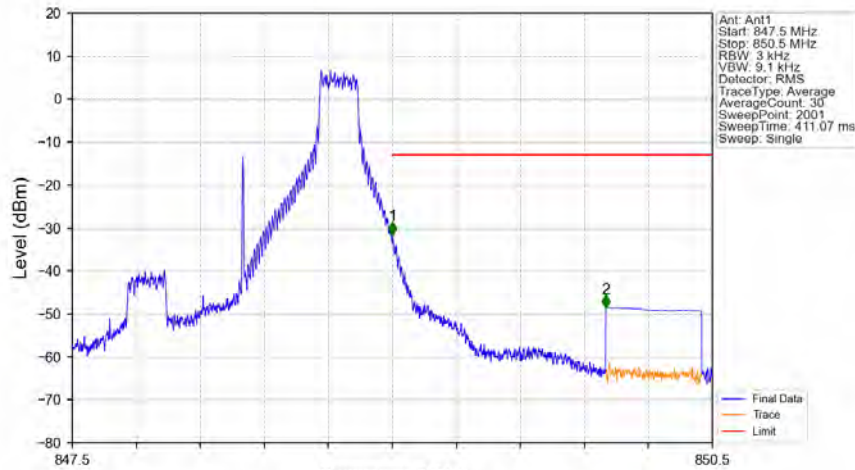
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Band5_1.4MHz_64QAM_HCH_848.3MHz_RB_1_0_NTNV



Band5_1.4MHz_64QAM_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	/	1	849.001	-31.60	-13	Pass
849	850	0.003	/	1	849.001	-31.60	-13	Pass
850	850.5	0.1	CHP	2	850.000	-48.56	-13	Pass



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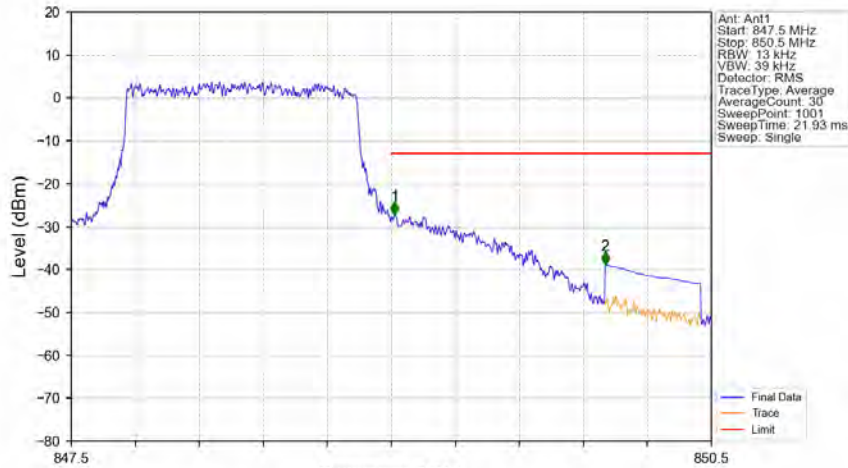
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Band5_1.4MHz_64QAM_HCH_848.3MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.013	/	1	849.015	-27.22	-13	Pass
849	850	0.013	/	2	850.002	-38.86	-13	Pass
850	850.5	0.1	CHP					



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6.2 B5_3MHz

6.2.1 Test Result

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
64QAM	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



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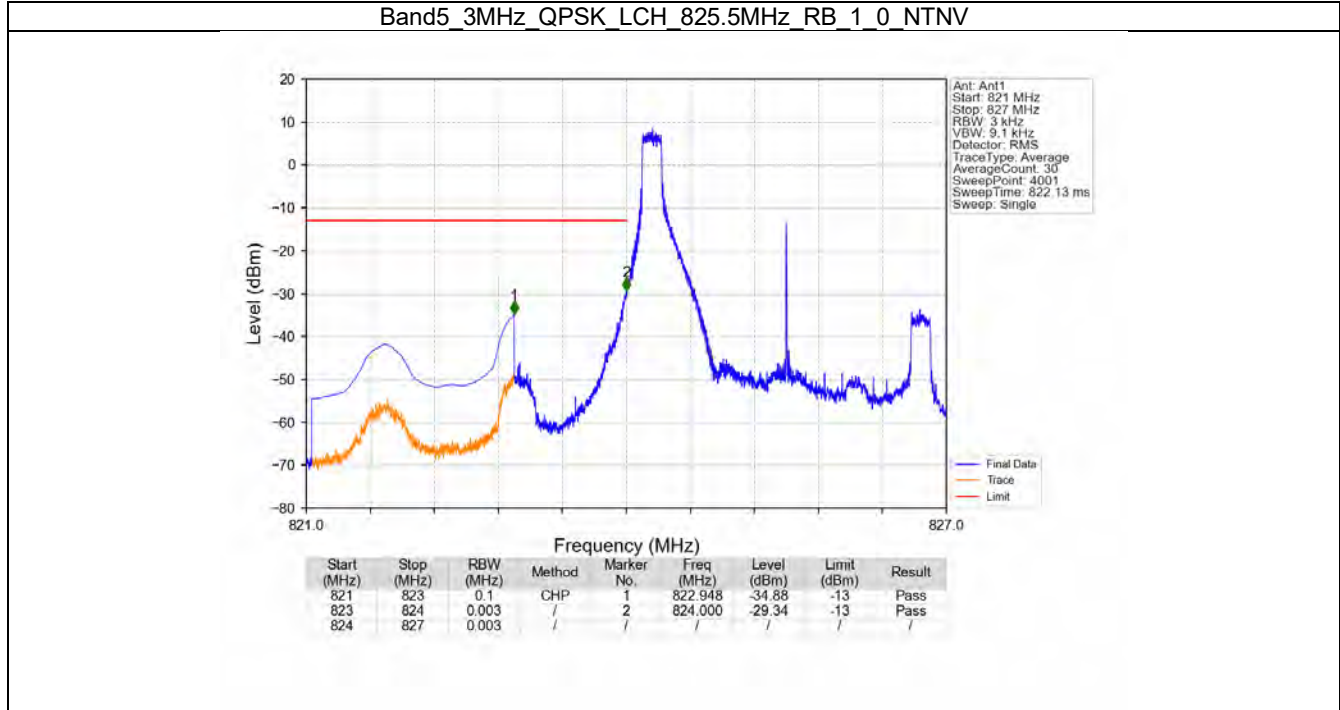
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6.2.2 Test Graph



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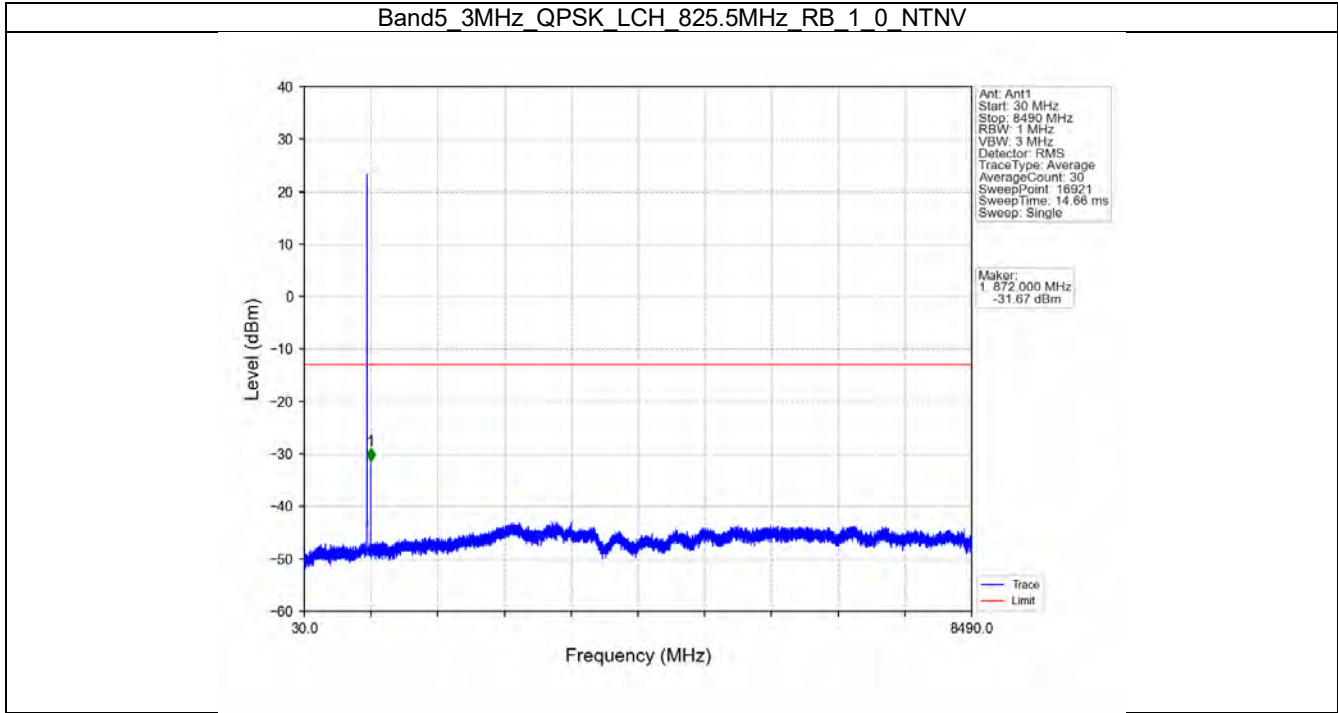
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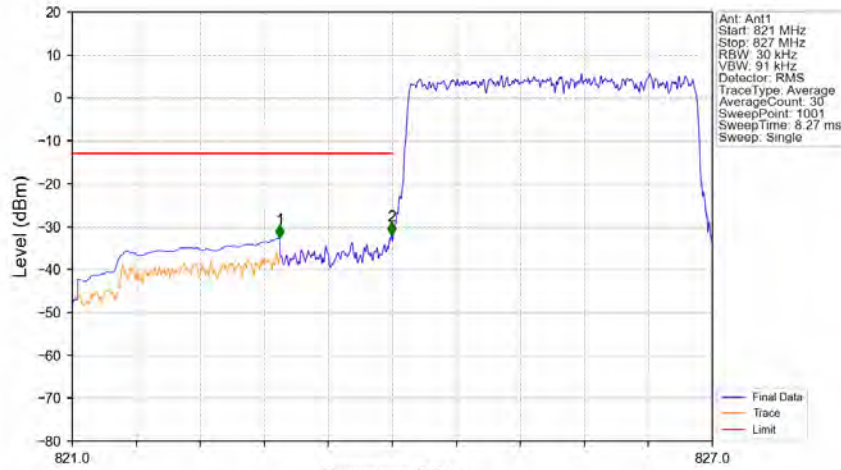
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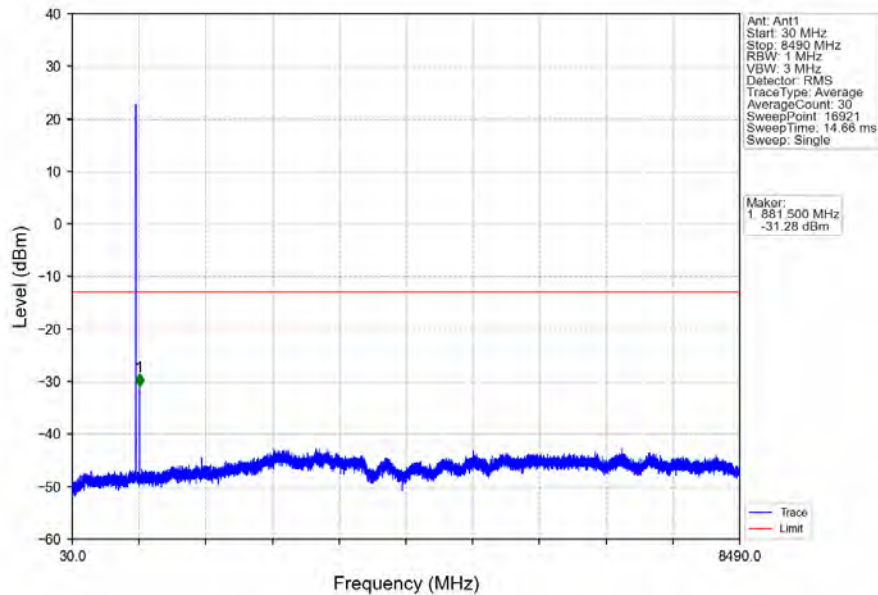
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Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.944	-32.79	-13	Pass
823	824	0.03	/	2	823.994	-32.00	-13	Pass
824	827	0.03	/	/	/	/	/	/

Band5_3MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



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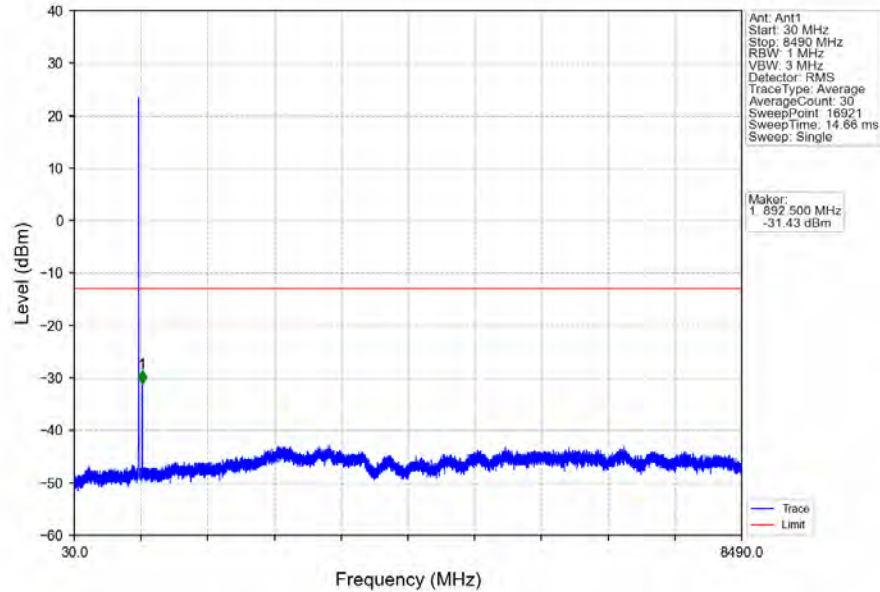
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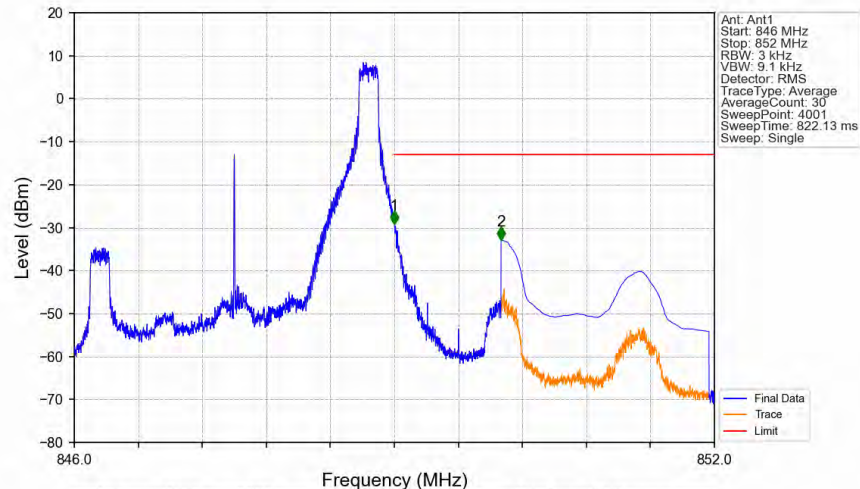
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Band5_3MHz_QPSK_HCH_847.5MHz_RB_1_0_NTNV



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	/	1	849.000	-29.17	-13	Pass
849	850	0.003	/	1	849.000	-29.17	-13	Pass
850	852	0.1	CHP	2	850.002	-32.93	-13	Pass



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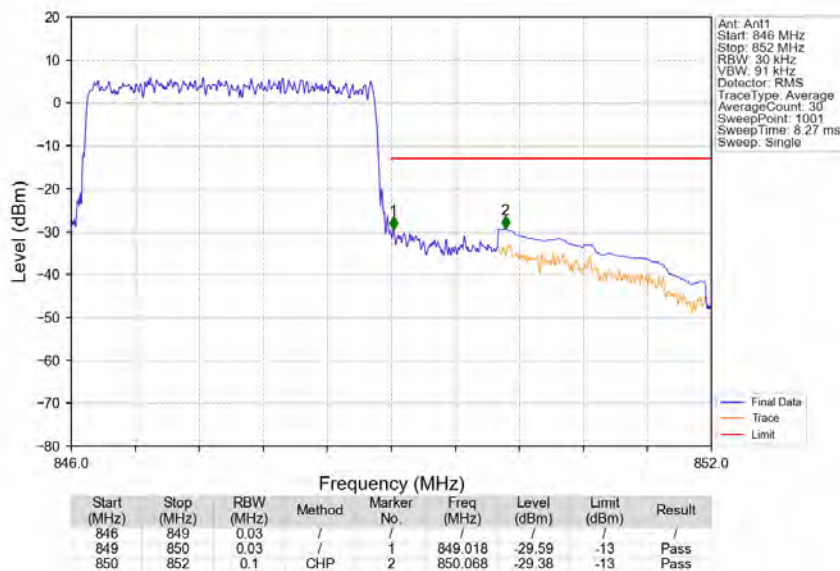
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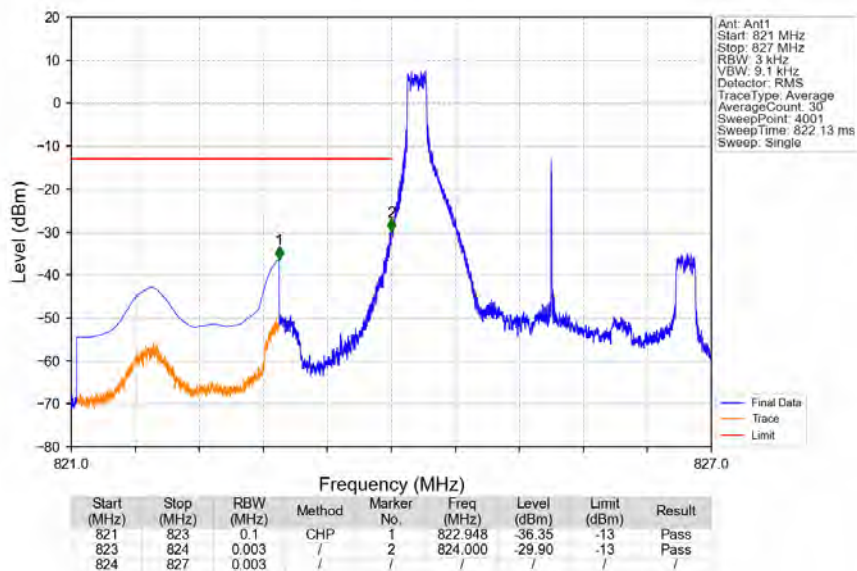
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Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



Band5_3MHz_16QAM_LCH_825.5MHz_RB_1_0_NTNV



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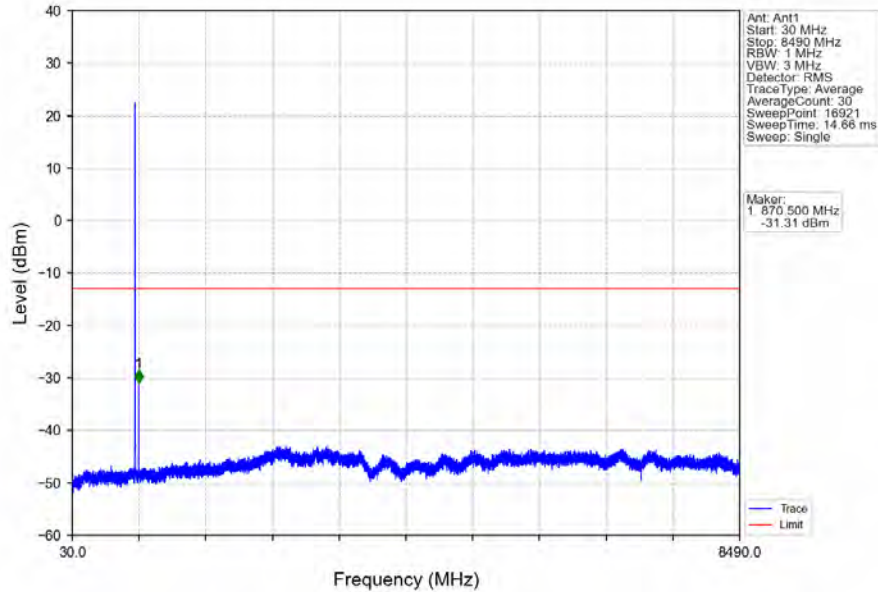
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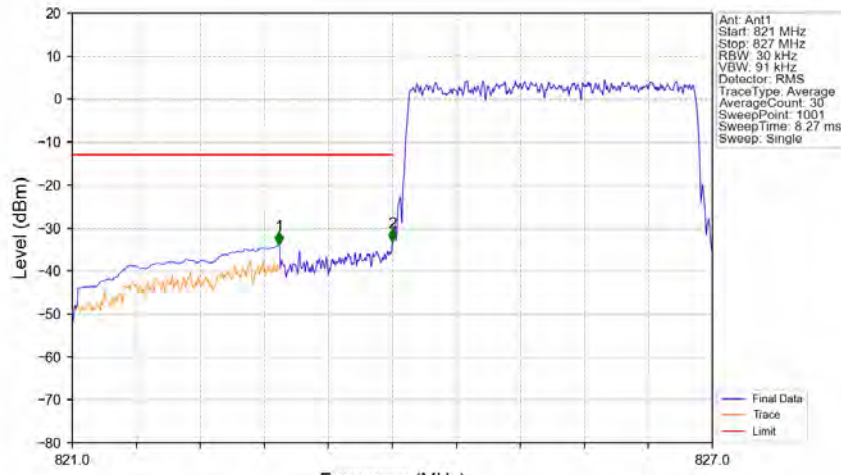
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Band5_3MHz_16QAM_LCH_825.5MHz_RB_1_0_NTNV



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	822.938	-34.04	-13	Pass
823	824	0.03	/	2	824.000	-33.27	-13	Pass
824	827	0.03	/	/	/	/	/	/



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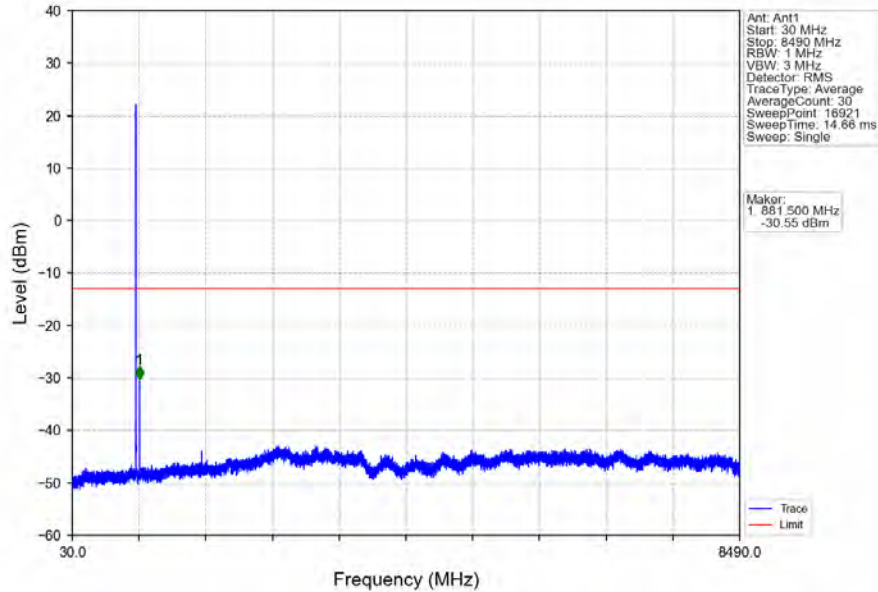
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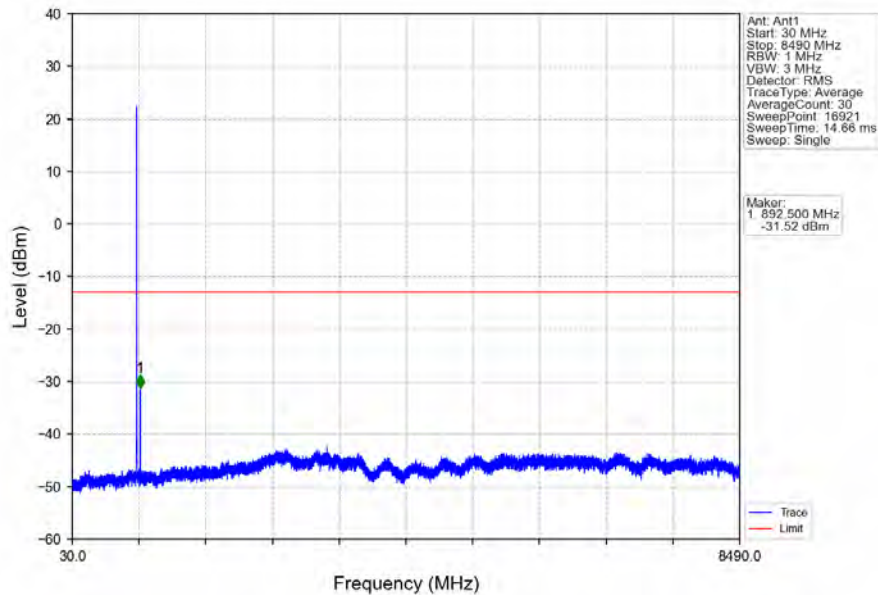
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Band5_3MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV



Band5_3MHz_16QAM_HCH_847.5MHz_RB_1_0_NTNV



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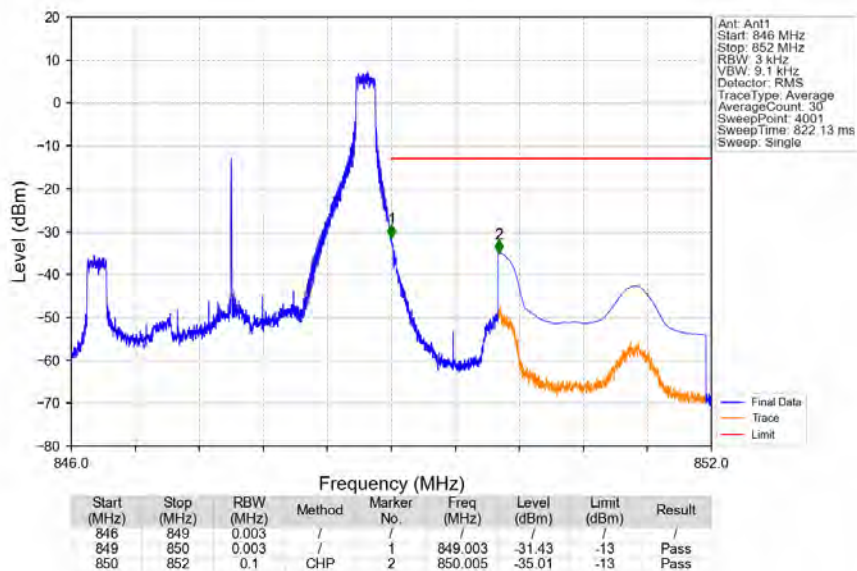
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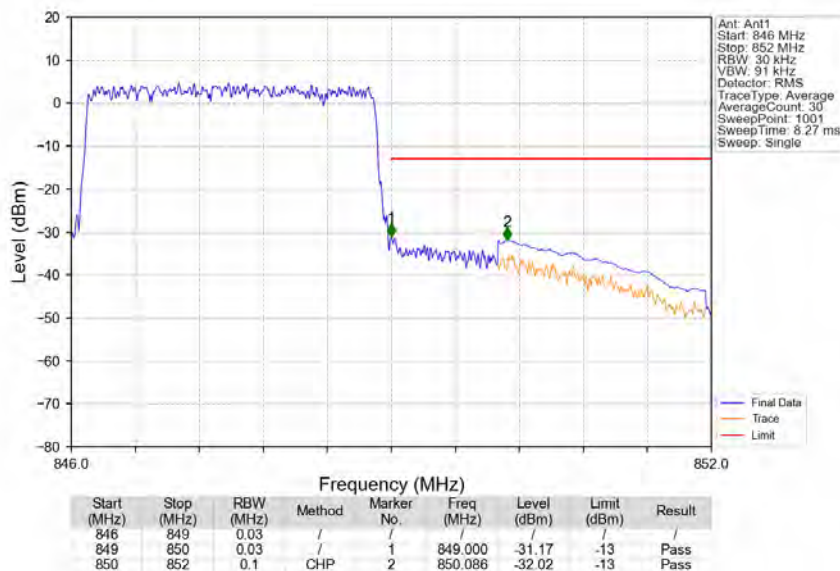
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Band5_3MHz_16QAM_HCH_847.5MHz_RB_1_14_NTNV



Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



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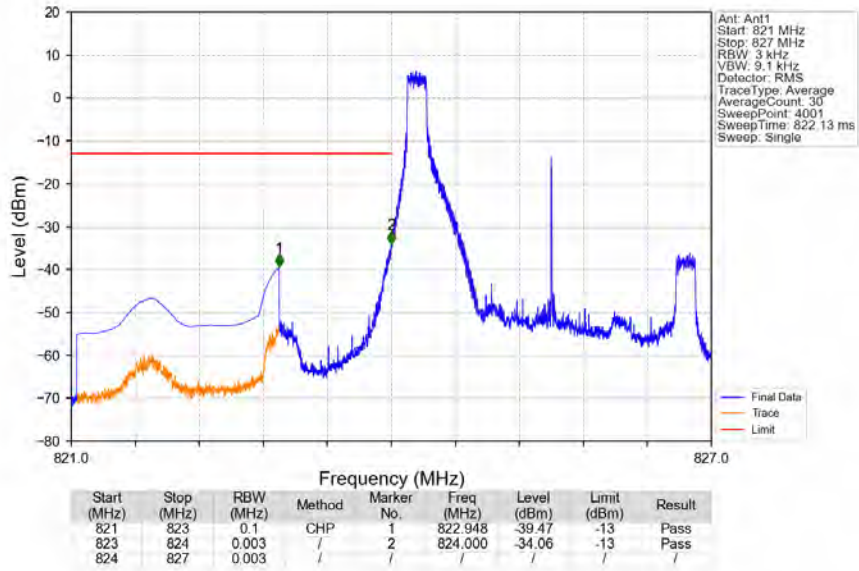
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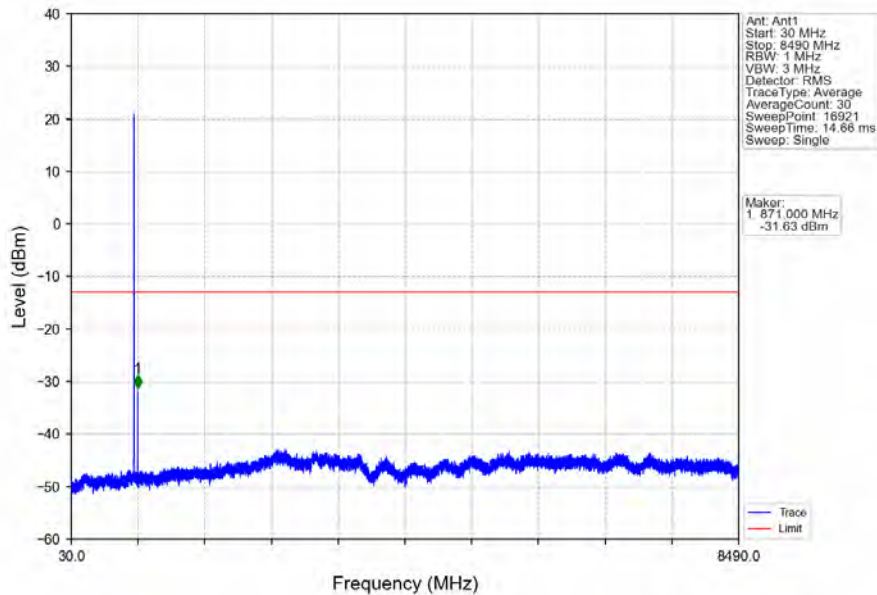
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Band5_3MHz_64QAM_LCH_825.5MHz_RB_1_0_NTNV



Band5_3MHz_64QAM_LCH_825.5MHz_RB_1_0_NTNV



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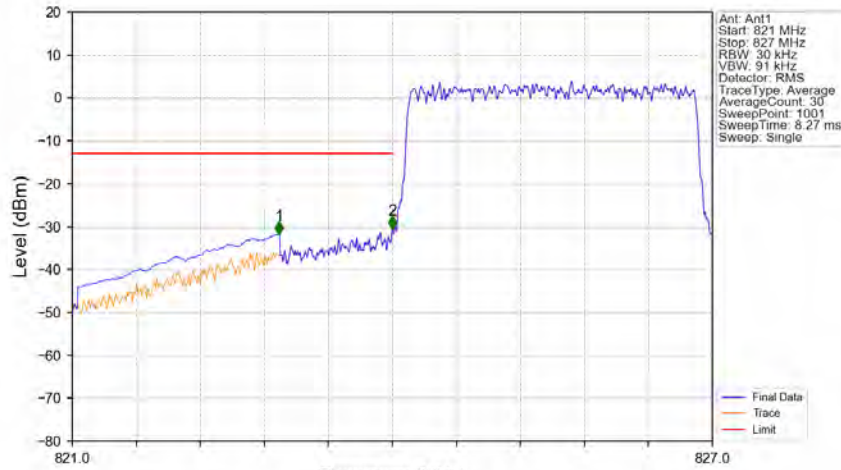
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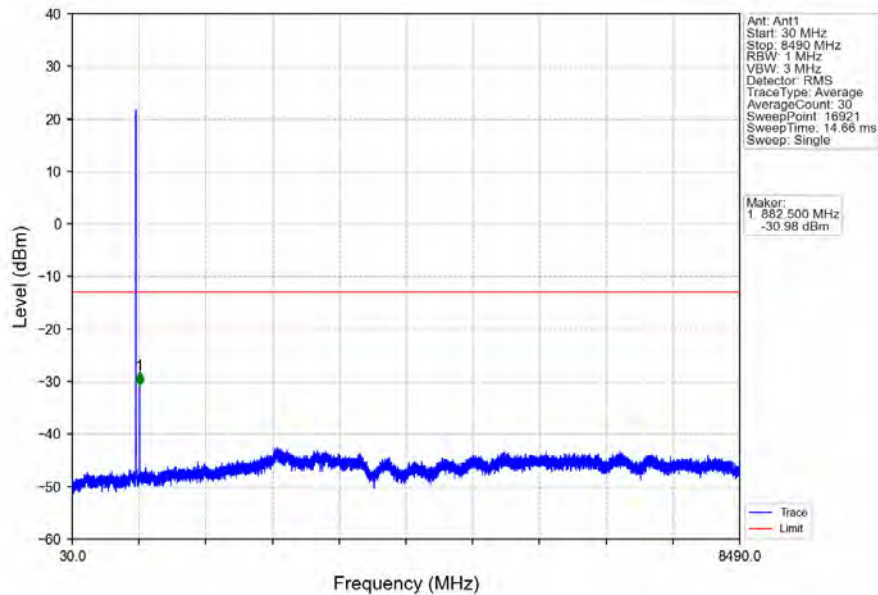
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Band5_3MHz_64QAM_LCH_825.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.938	-31.91	-13	Pass
823	824	0.03	/	2	824.000	-30.67	-13	Pass
824	827	0.03	/	/	/	/	/	/

Band5_3MHz_64QAM_MCH_836.5MHz_RB_1_0_NTNV



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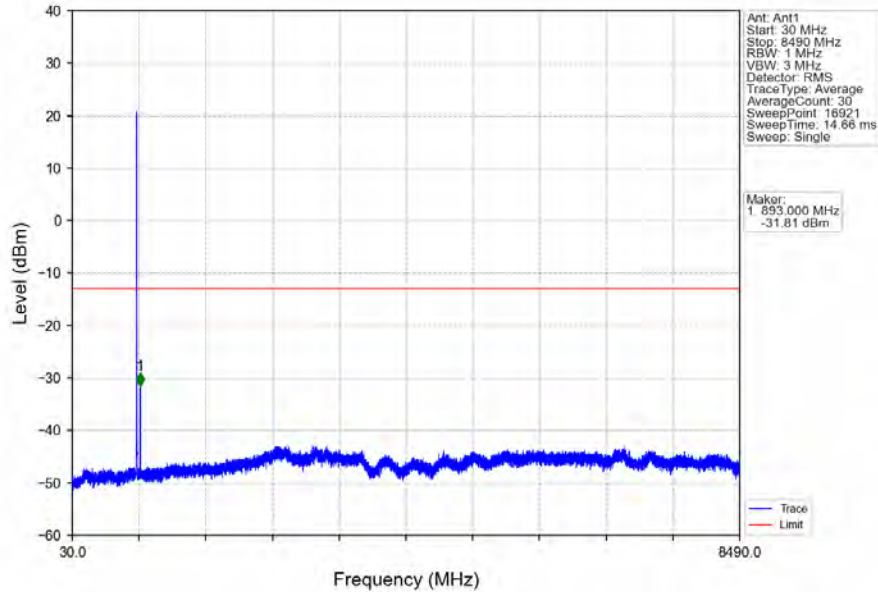
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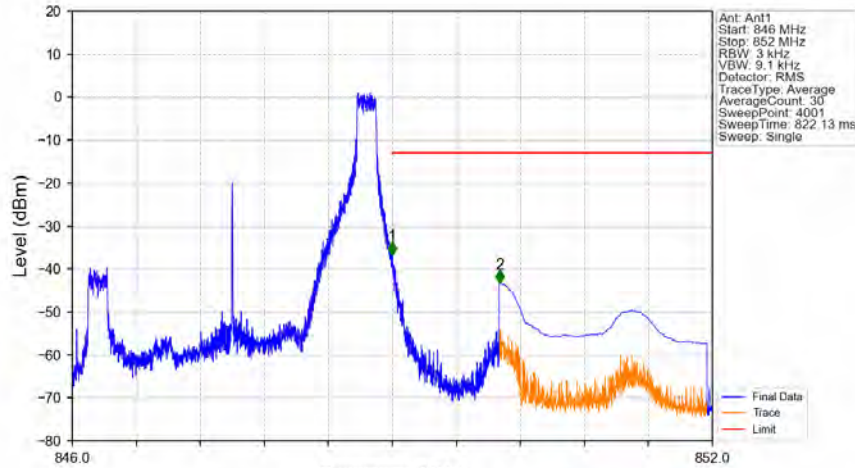
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Band5_3MHz_64QAM_HCH_847.5MHz_RB_1_0_NTNV



Band5_3MHz_64QAM_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	/	1	849.000	-36.71	-13	/
849	850	0.003	/	1	849.000	-36.71	-13	Pass
850	852	0.1	CHP	2	850.006	-43.26	-13	Pass



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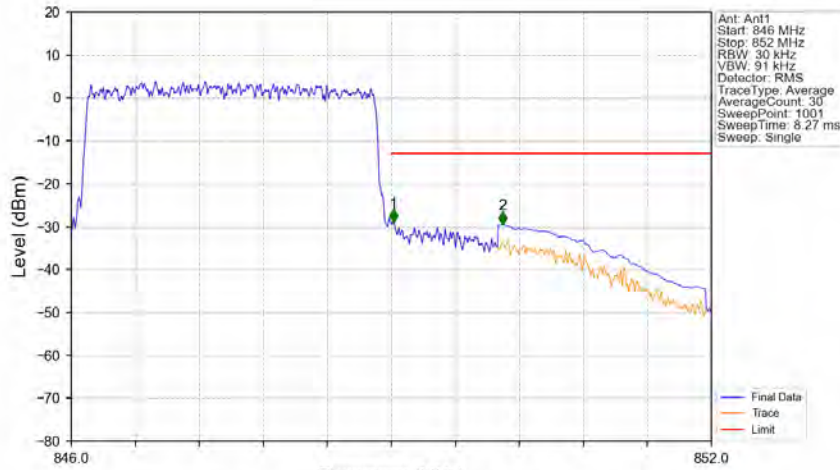
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Band5_3MHz_64QAM_HCH_847.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.03	/	1	849.018	-28.99	-13	Pass
849	850	0.03	/	2	850.044	-29.48	-13	Pass
850	852	0.1	CHP					



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6.3 B5_5MHz

6.3.1 Test Result

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	
	846.5	1	0	Refer To Test Graph	Pass	
		1	0	Refer To Test Graph	Pass	
			24	Refer To Test Graph	Pass	
16QAM	826.5	1	0	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
	846.5	1	0	Refer To Test Graph	Pass	
		1	0	Refer To Test Graph	Pass	
			24	Refer To Test Graph	Pass	
64QAM	826.5	1	0	Refer To Test Graph	Pass	
		25	0	Refer To Test Graph	Pass	
	846.5	1	0	Refer To Test Graph	Pass	
		1	0	Refer To Test Graph	Pass	
			24	Refer To Test Graph	Pass	
846.5	1	24	Refer To Test Graph	Pass		
	25	0	Refer To Test Graph	Pass		



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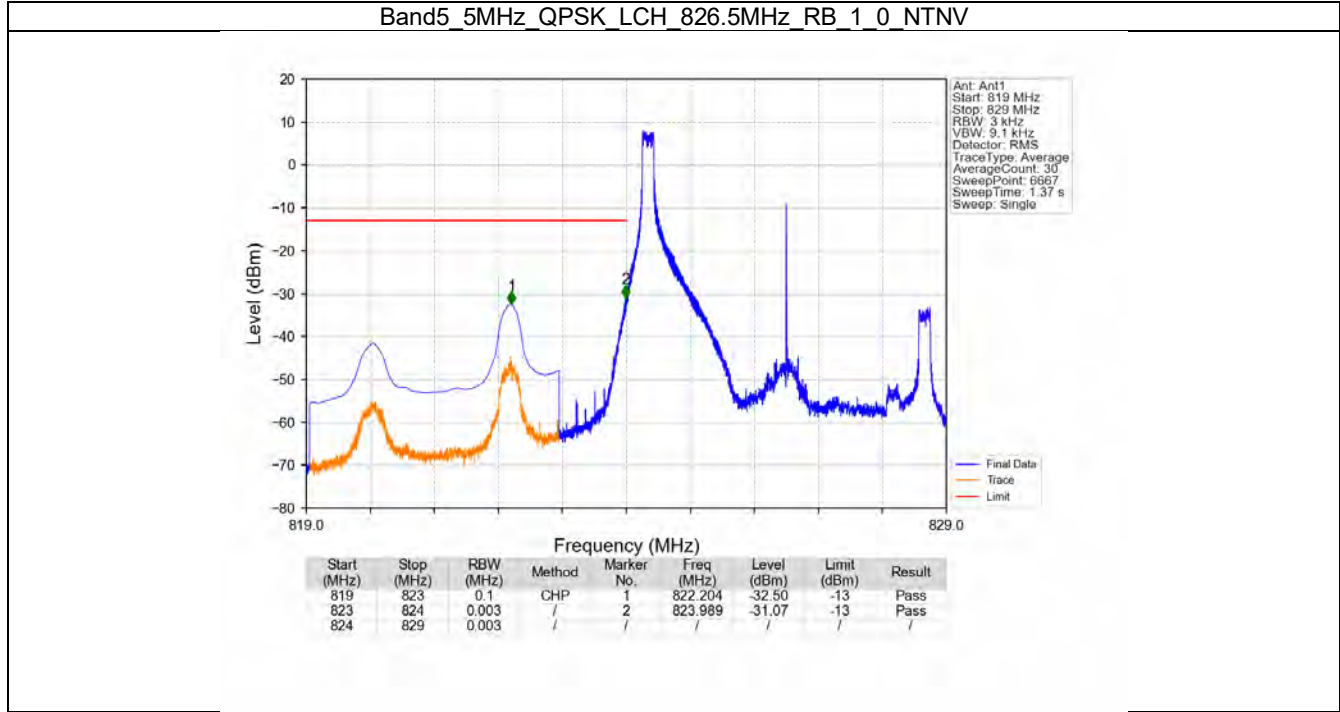
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6.3.2 Test Graph



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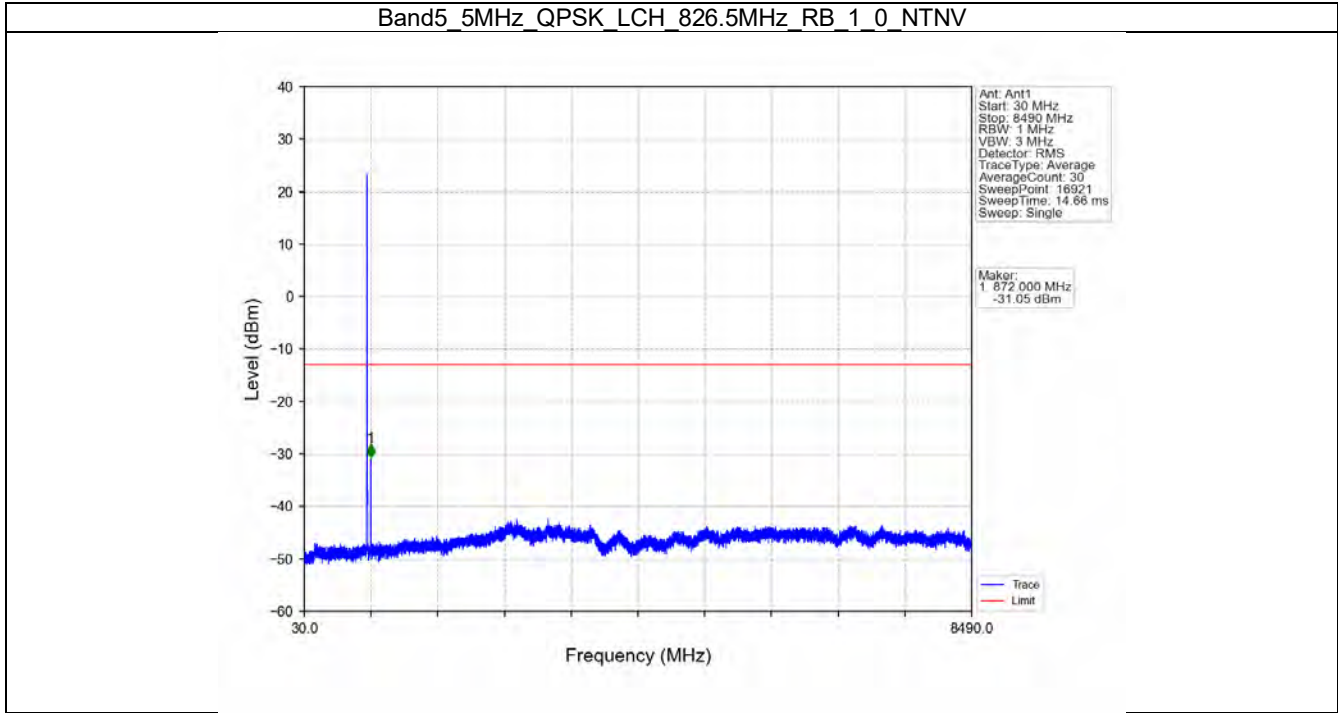
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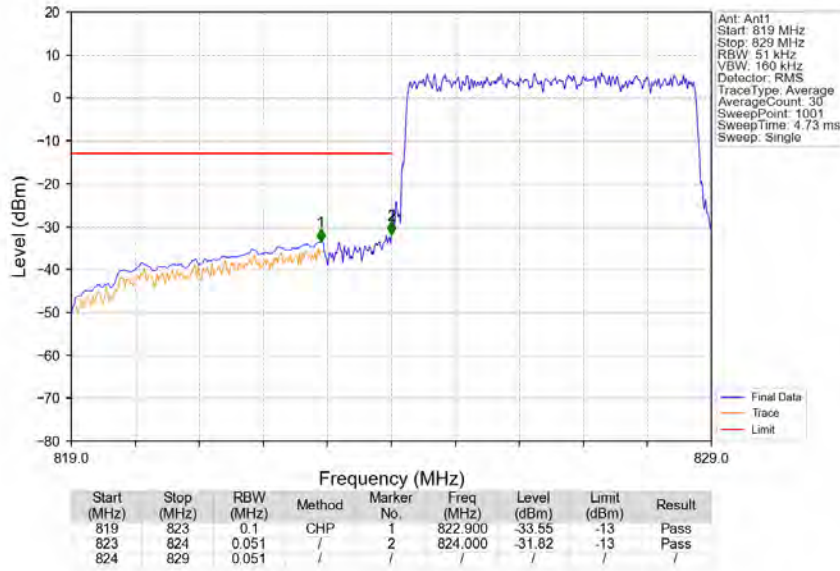
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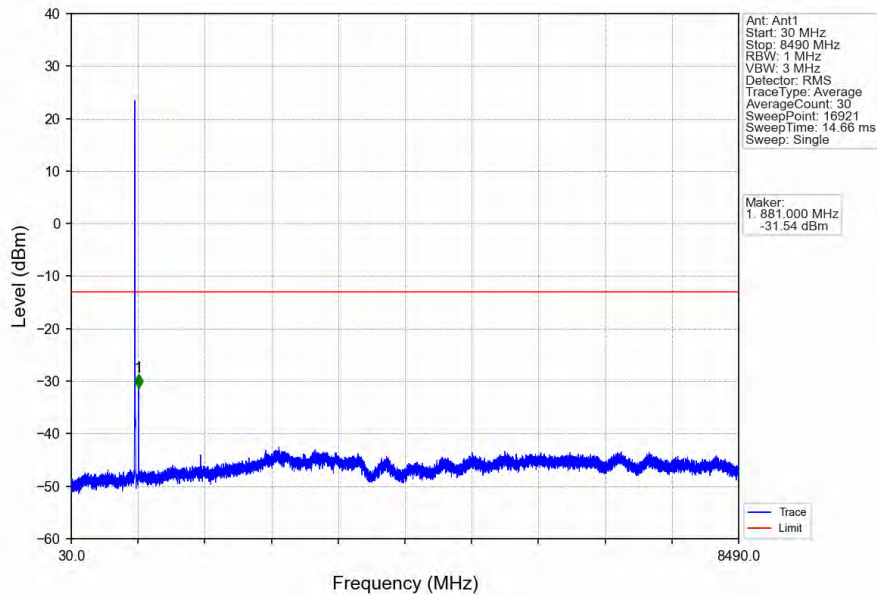
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Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



Band5_5MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



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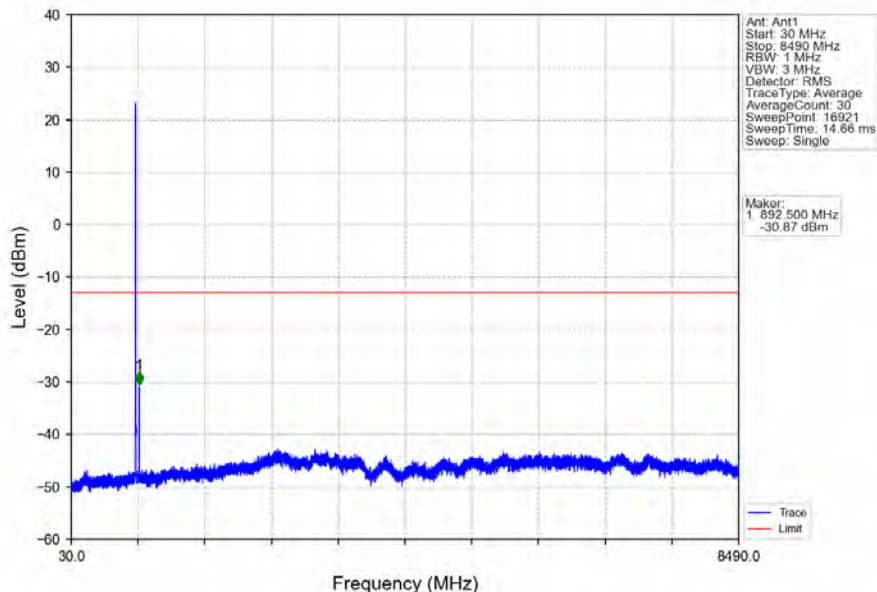
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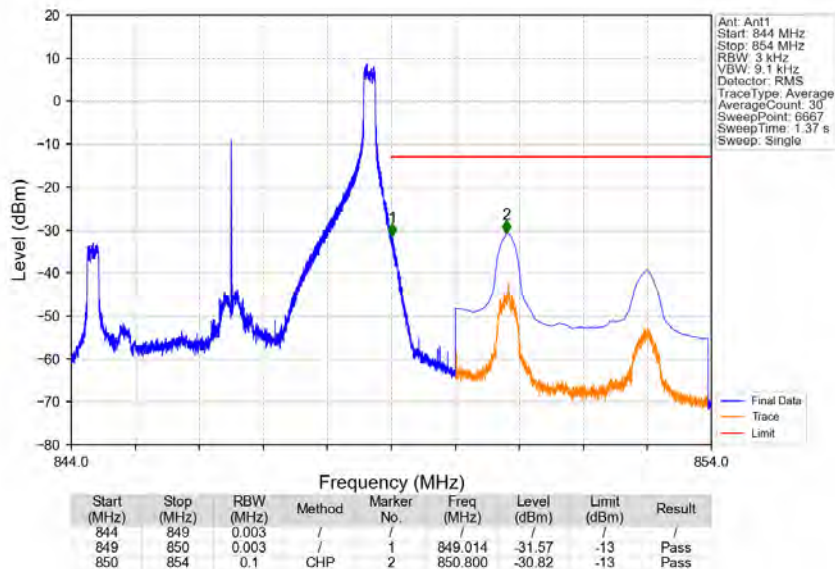
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Band5_5MHz_QPSK_HCH_846.5MHz_RB_1_0_NTNV



Band5_5MHz_QPSK_HCH_846.5MHz_RB_1_24_NTNV



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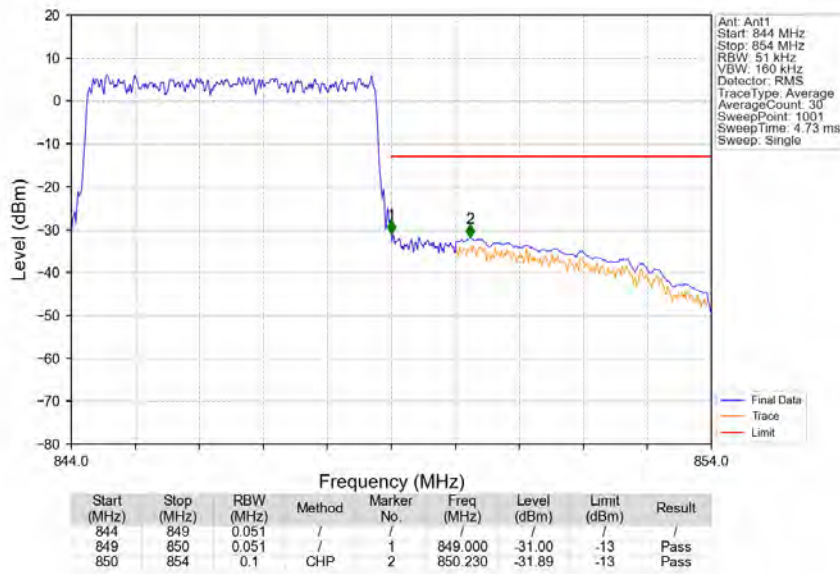
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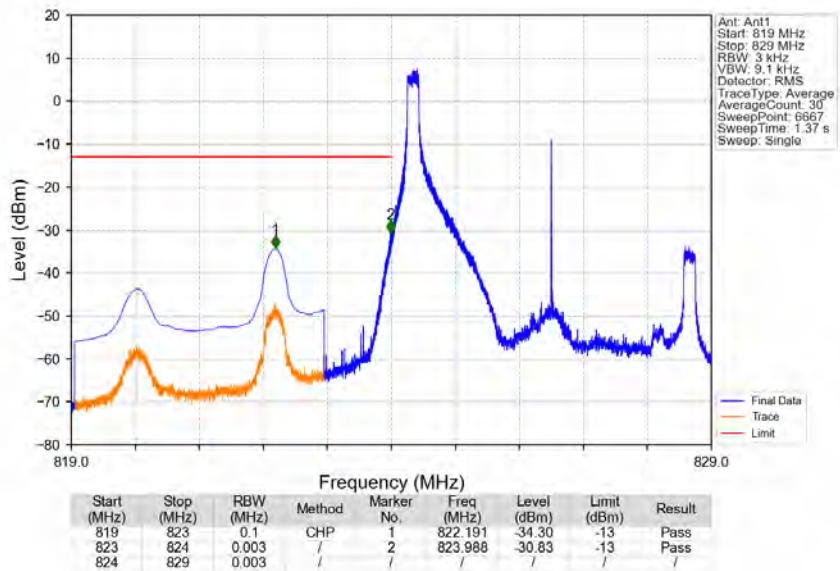
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Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



Band5_5MHz_16QAM_LCH_826.5MHz_RB_1_0_NTNV



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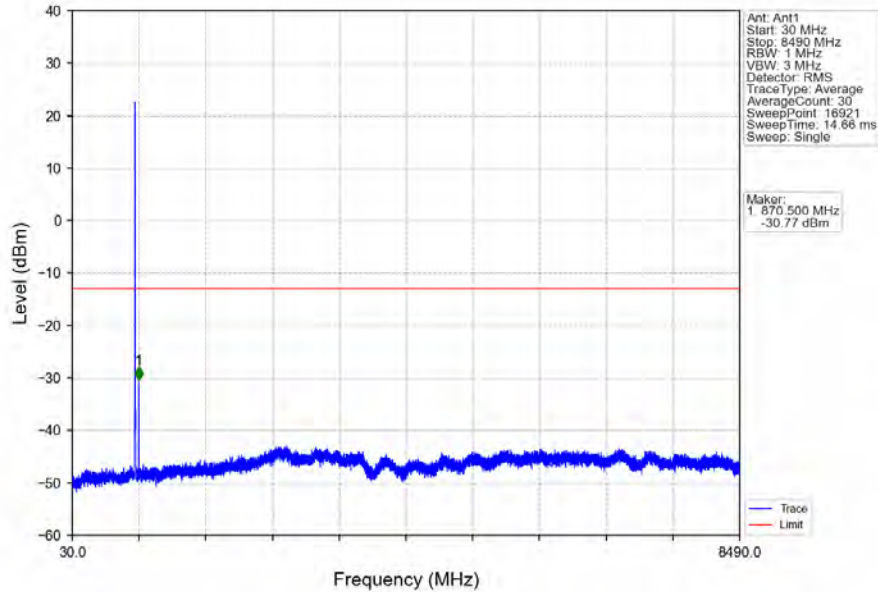
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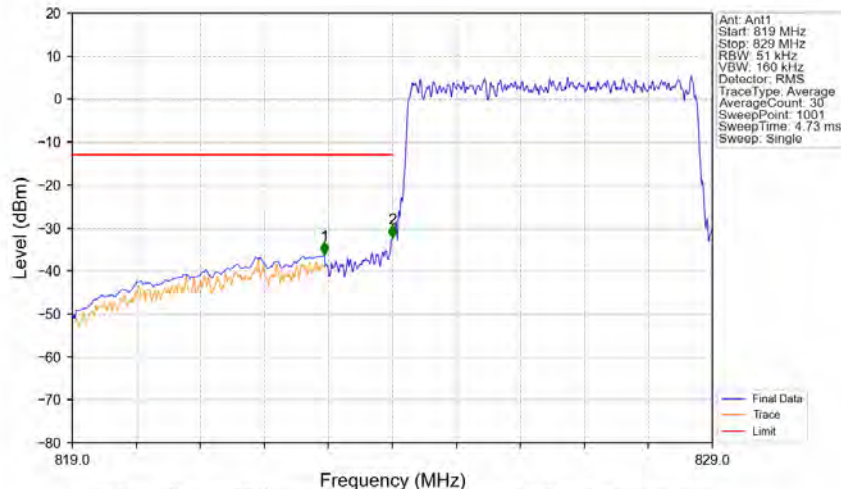
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Band5_5MHz_16QAM_LCH_826.5MHz_RB_1_0_NTNV



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	-36.24	-13	Pass
823	824	0.051	/	2	824.000	-32.39	-13	Pass
824	829	0.051	/	/	/	/	/	/



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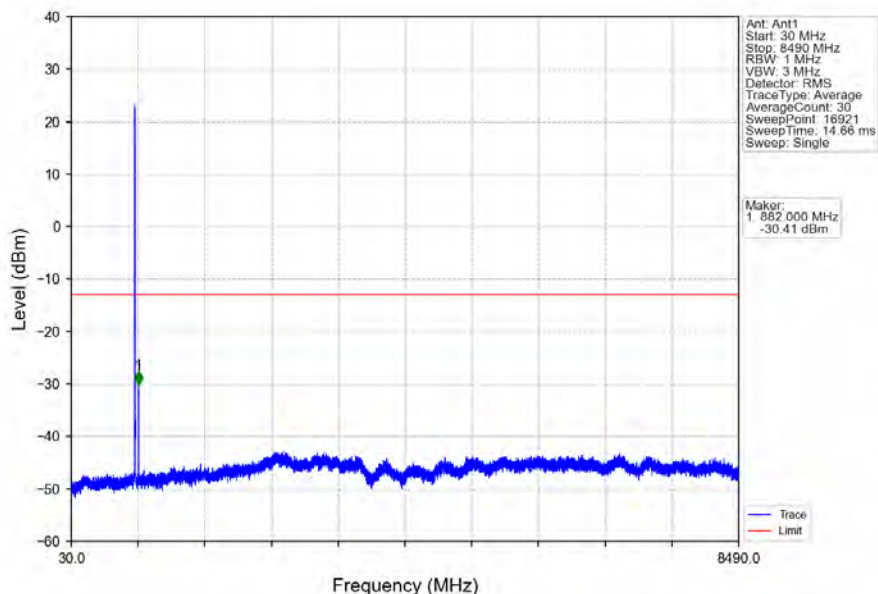
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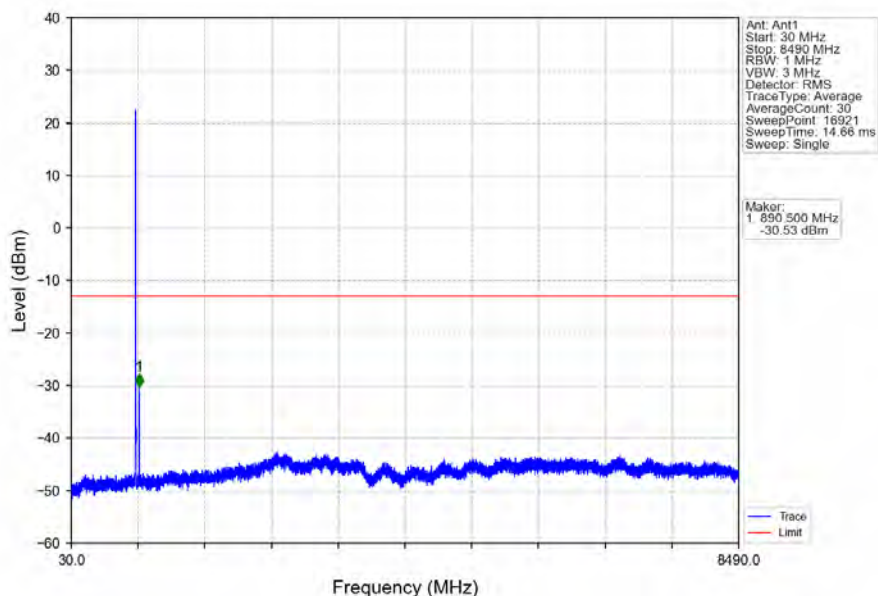
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Band5_5MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV



Band5_5MHz_16QAM_HCH_846.5MHz_RB_1_0_NTNV



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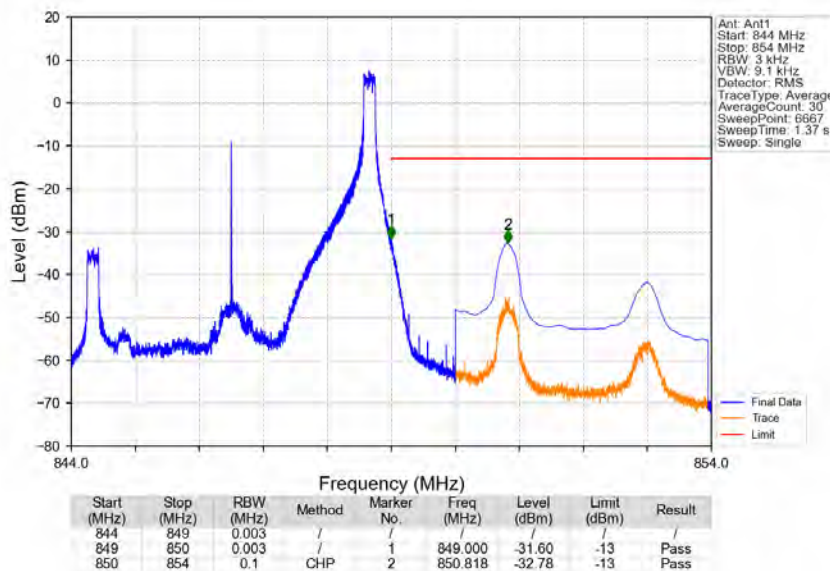
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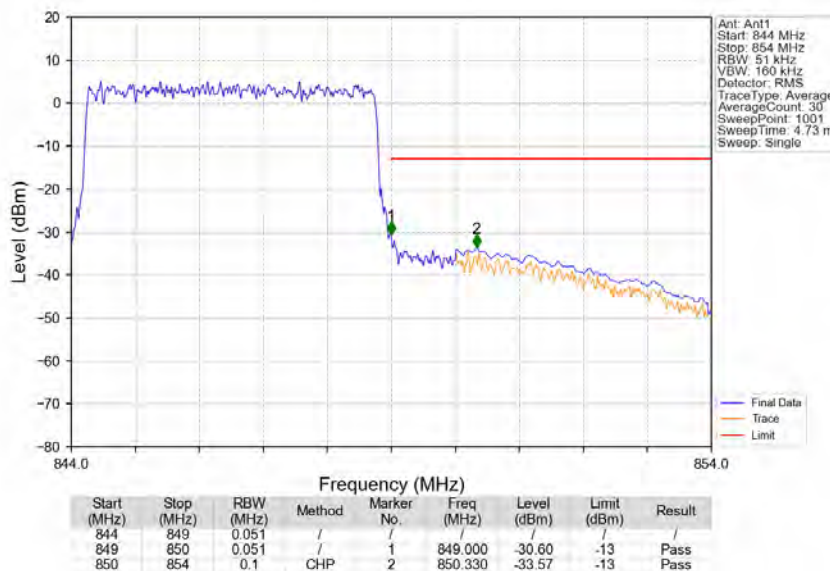
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Band5_5MHz_16QAM_HCH_846.5MHz_RB_1_24_NTNV



Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



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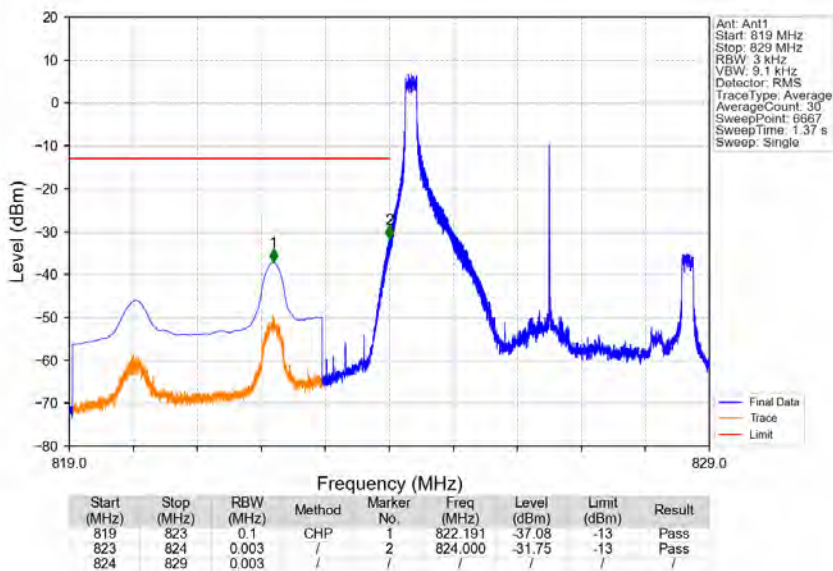
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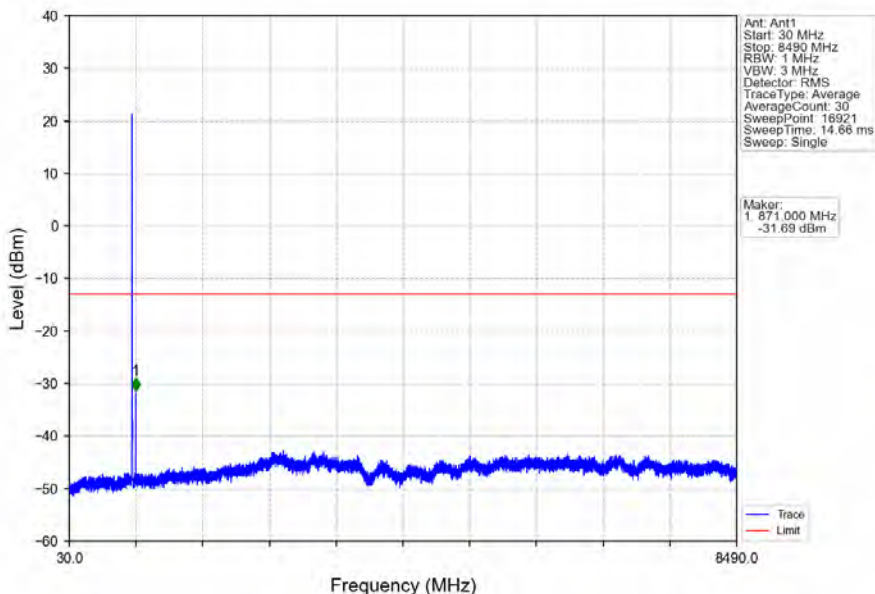
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Band5_5MHz_64QAM_LCH_826.5MHz_RB_1_0_NTNV



Band5_5MHz_64QAM_LCH_826.5MHz_RB_1_0_NTNV



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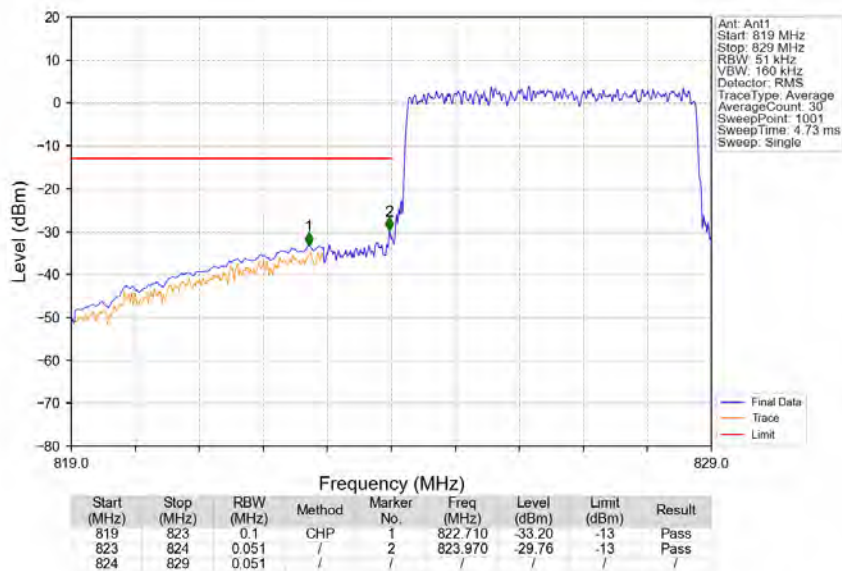
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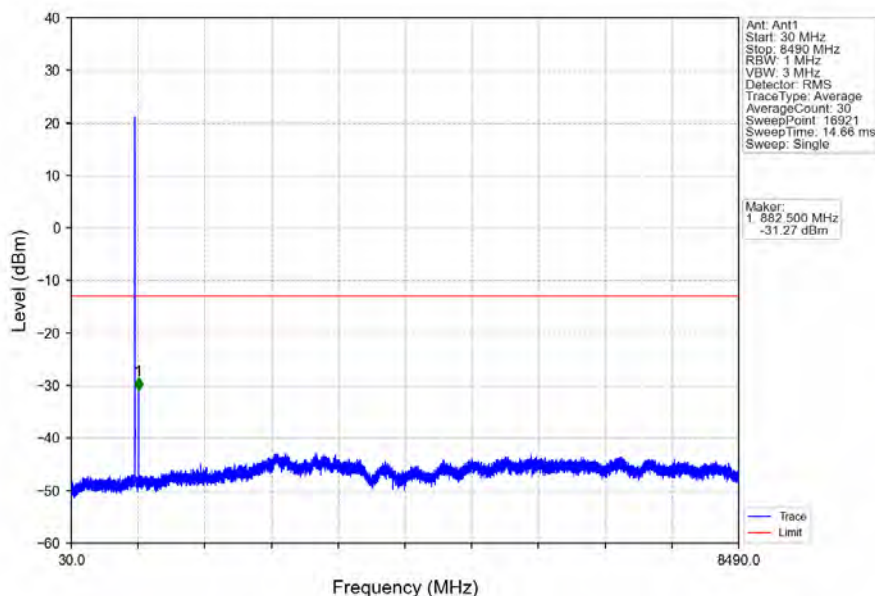
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Band5_5MHz_64QAM_LCH_826.5MHz_RB_25_0_NTNV



Band5_5MHz_64QAM_MCH_836.5MHz_RB_1_0_NTNV



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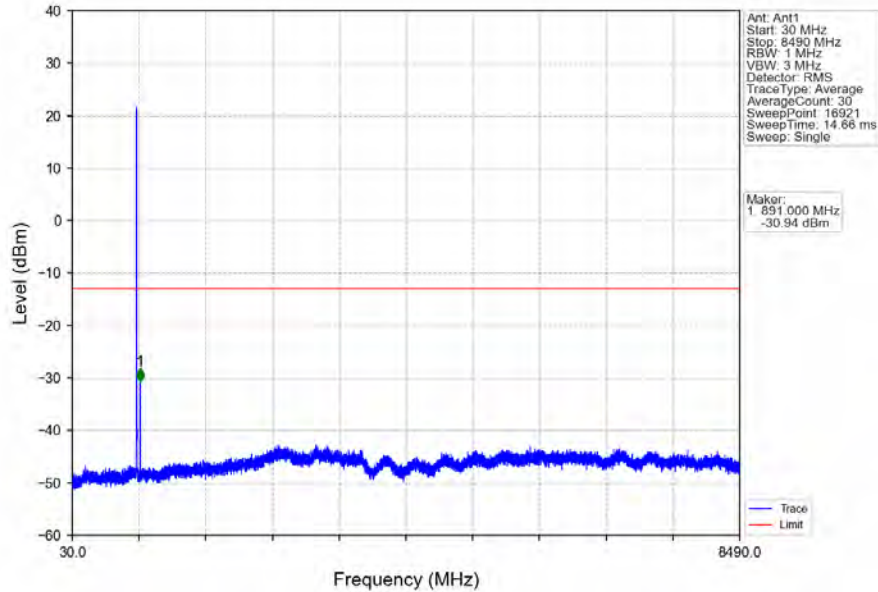
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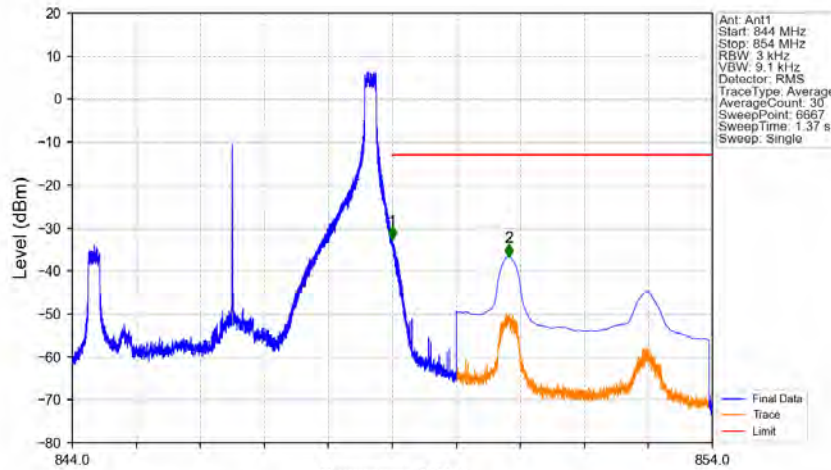
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Band5_5MHz_64QAM_HCH_846.5MHz_RB_1_0_NTNV



Band5_5MHz_64QAM_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	/	1	849.000	-32.75	-13	Pass
849	850	0.003	/	1	849.000	-32.75	-13	Pass
850	854	0.1	CHP	2	850.817	-36.73	-13	Pass



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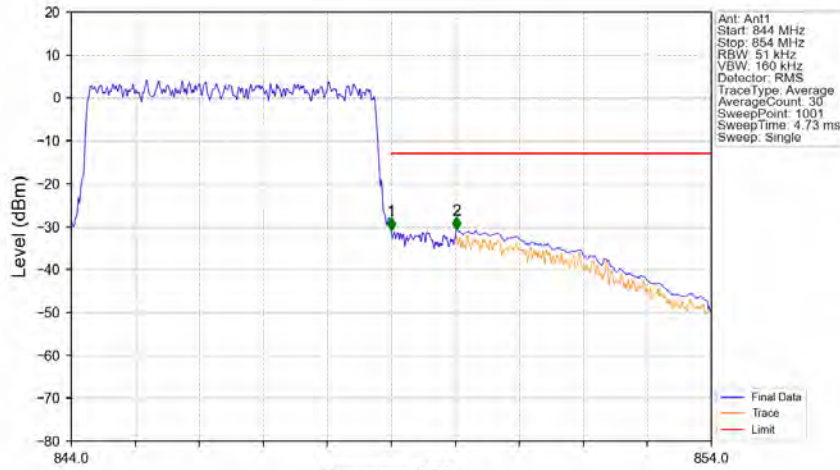
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Band5_5MHz_64QAM_HCH_846.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.051	/	1	849.000	-30.91	-13	Pass
849	850	0.051	/					
850	854	0.1	CHP	2	850.020	-30.72	-13	Pass



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6.4 B5_10MHz

6.4.1 Test Result

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	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	0	Refer To Test Graph	Pass
64QAM	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	0	Refer To Test Graph	Pass
844	50	0	Refer To Test Graph	Pass		



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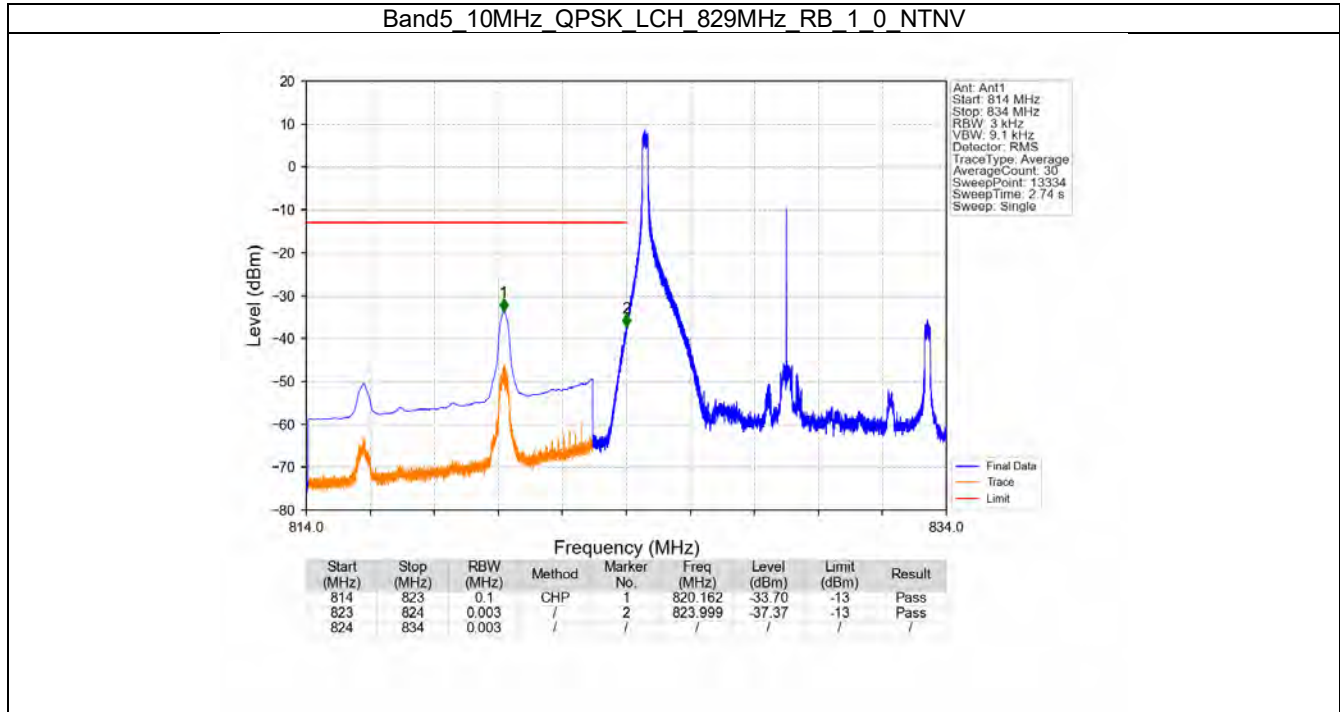
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6.4.2 Test Graph



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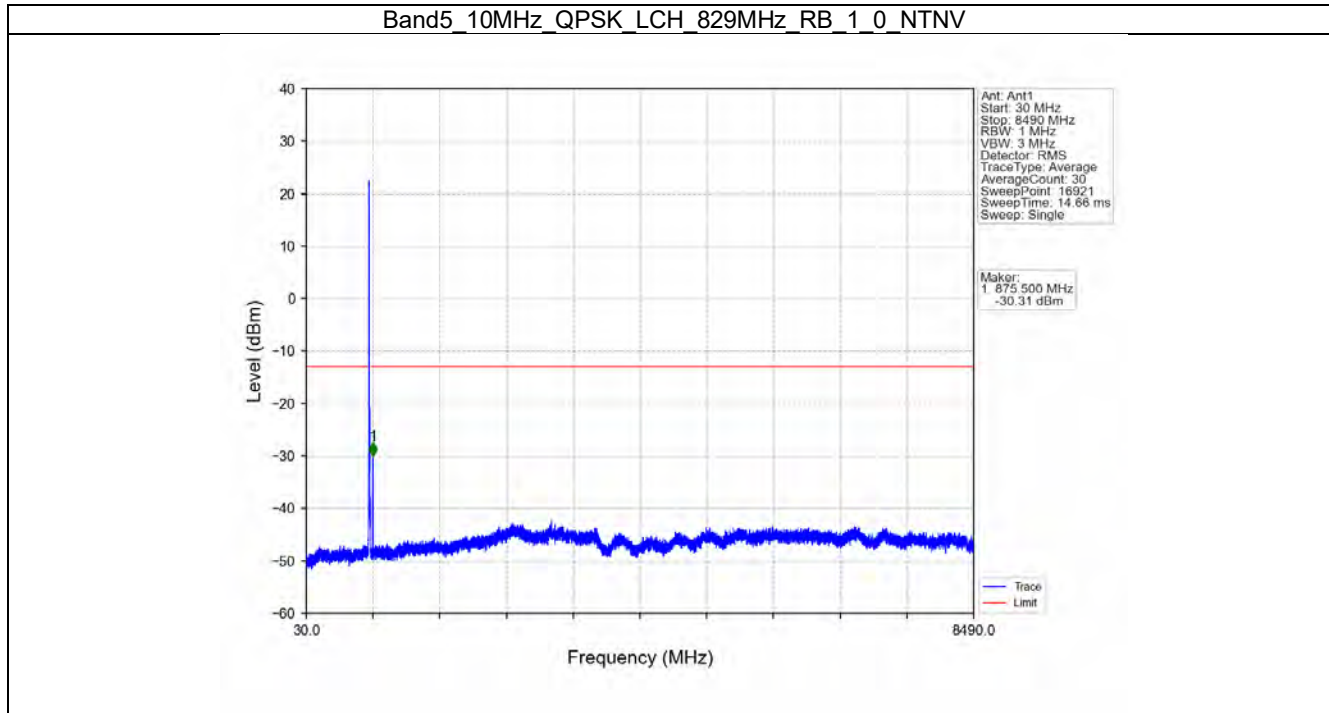
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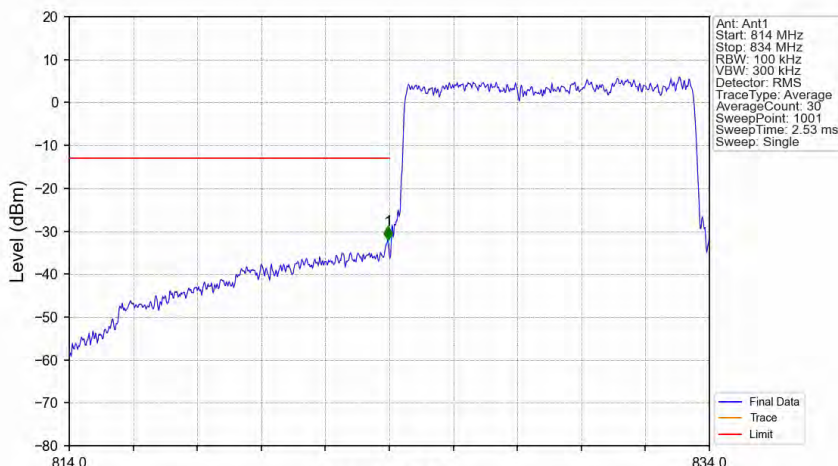
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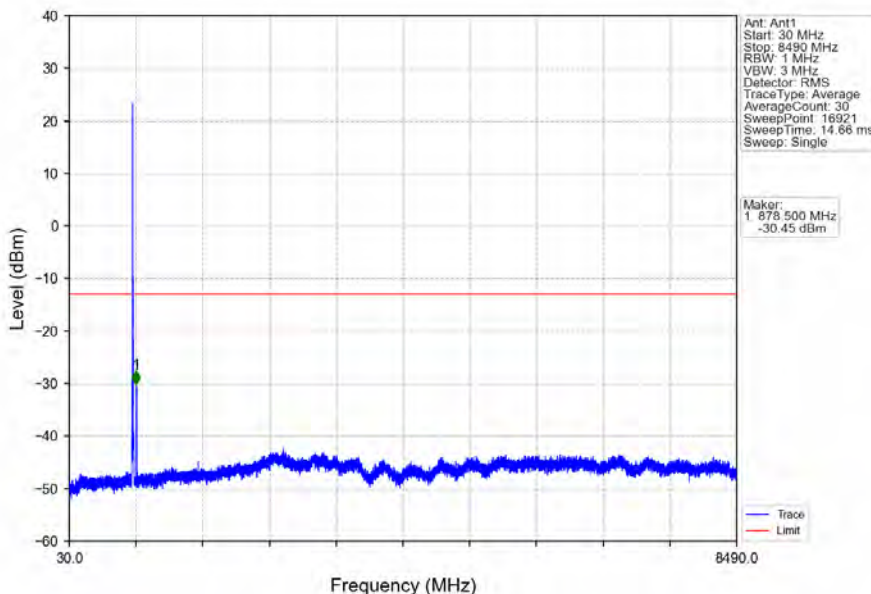
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Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	824	0.1	/	1	823.960	-32.01	-13	Pass
824	834	0.1	/	/	/	/	/	/

Band5_10MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



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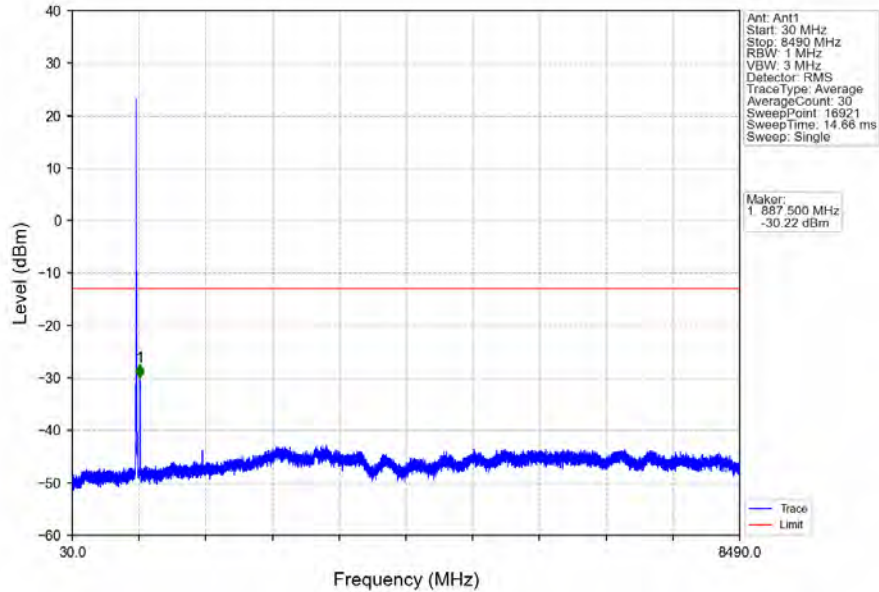
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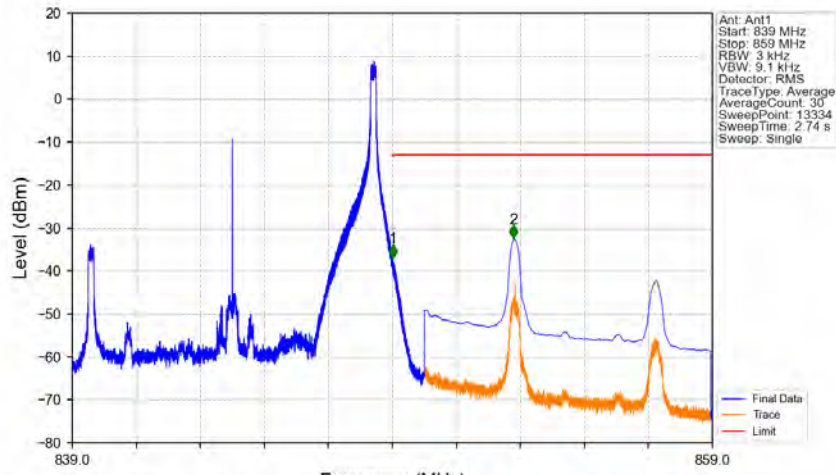
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Band5_10MHz_QPSK_HCH_844MHz_RB_1_0_NTNV



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	/	1	/	/	/	/
849	850	0.003	/	1	849.013	-36.90	-13	Pass
850	859	0.1	CHP	2	852.791	-32.46	-13	Pass



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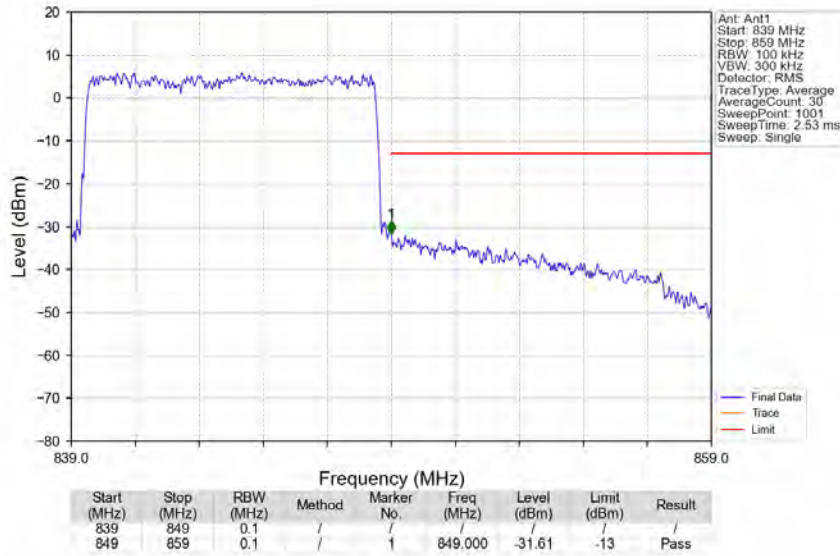
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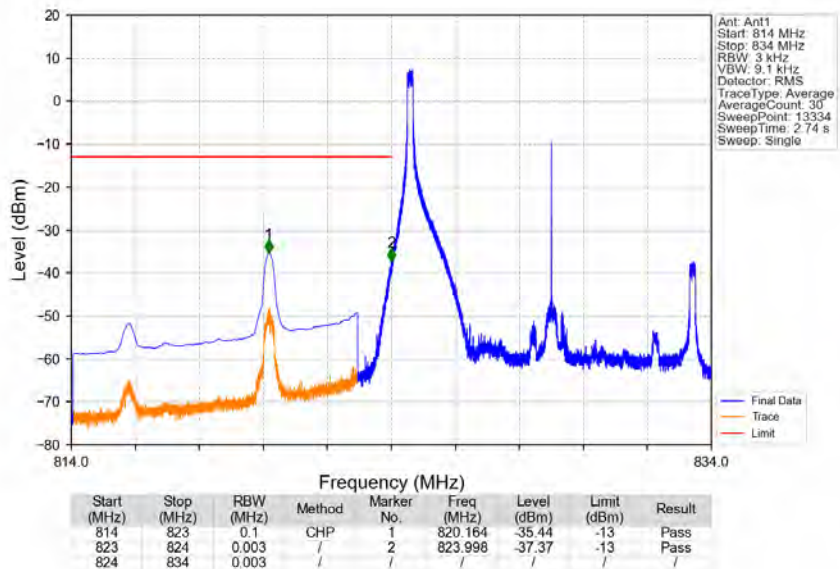
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Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



Band5_10MHz_16QAM_LCH_829MHz_RB_1_0_NTNV



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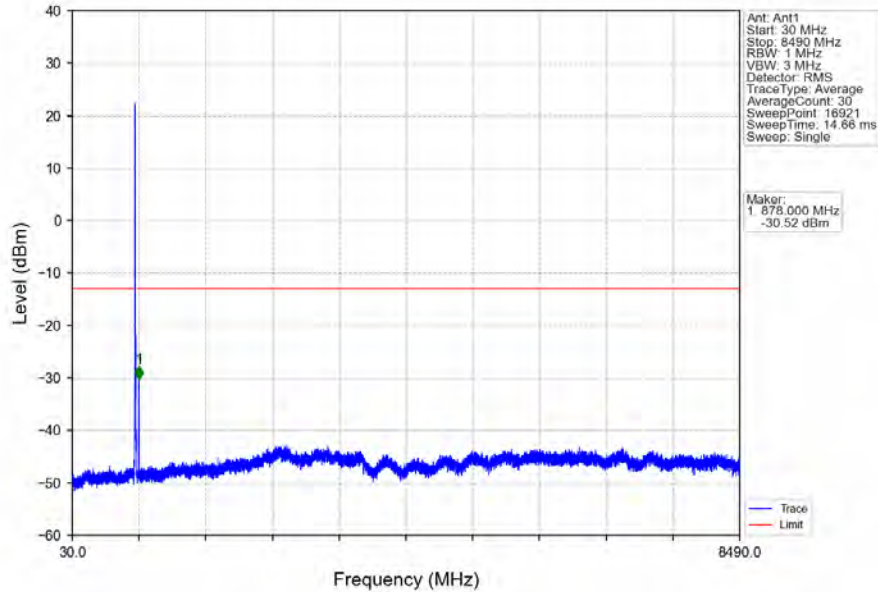
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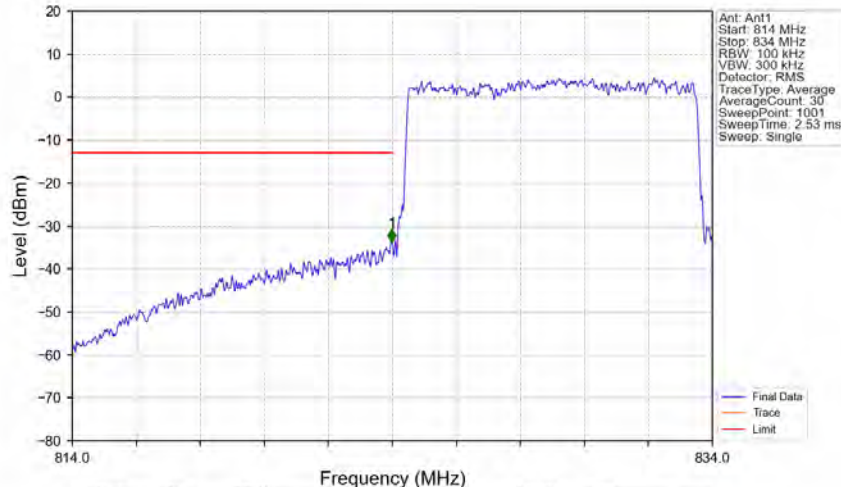
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Band5_10MHz_16QAM_LCH_829MHz_RB_1_0_NTNV



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	824	0.1	/	1	823.980	-33.74	-13	Pass
824	834	0.1	/	/	/	/	/	/



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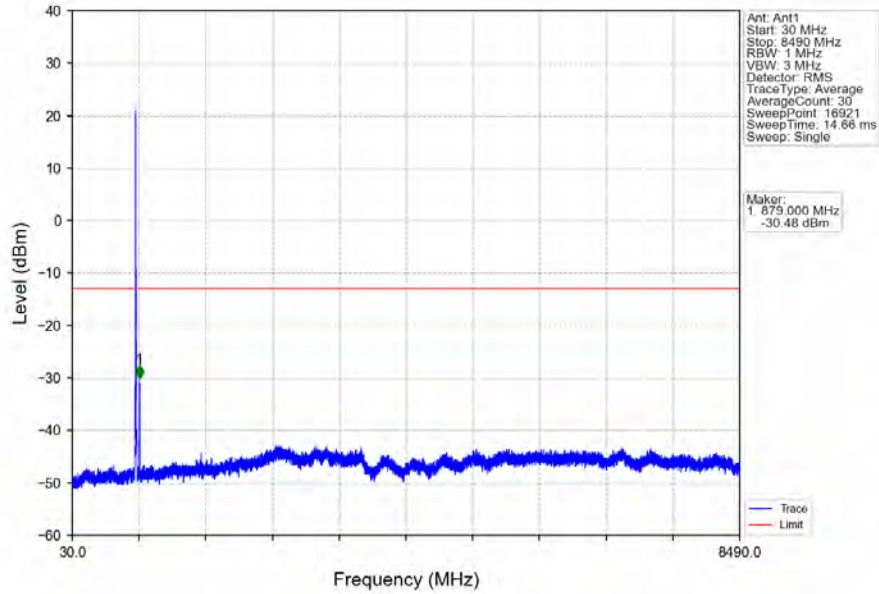
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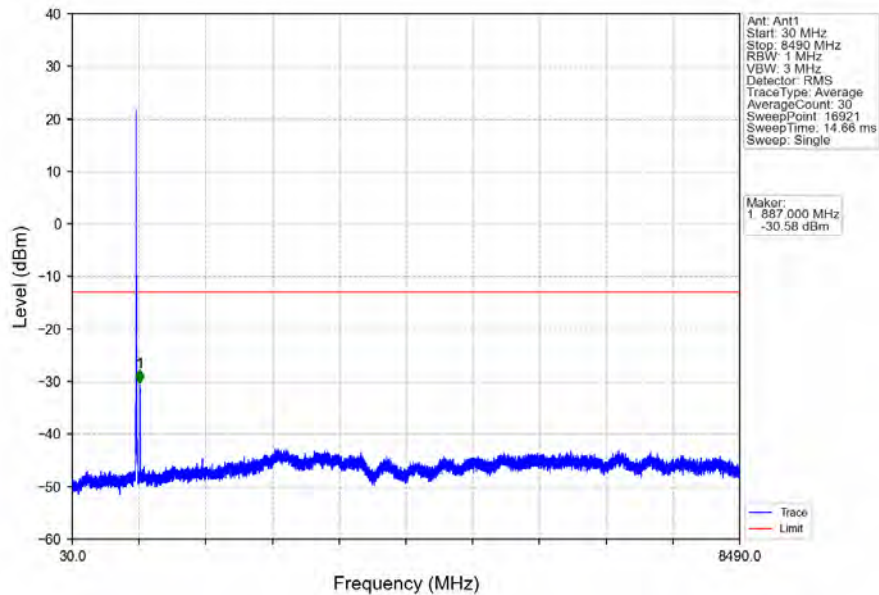
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Band5_10MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV



Band5_10MHz_16QAM_HCH_844MHz_RB_1_0_NTNV



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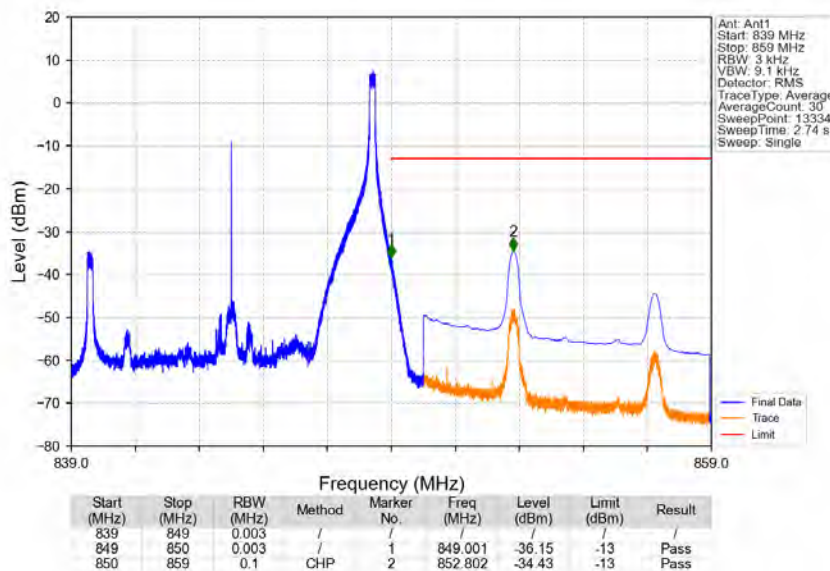
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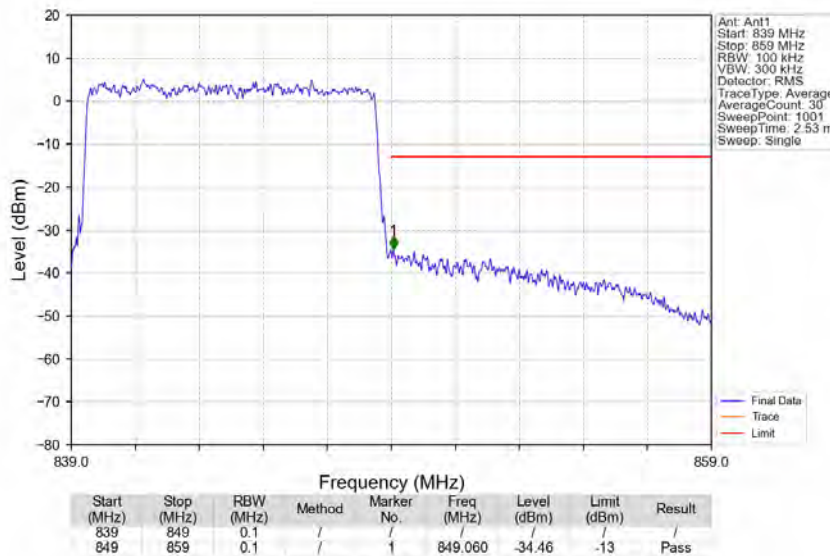
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Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV



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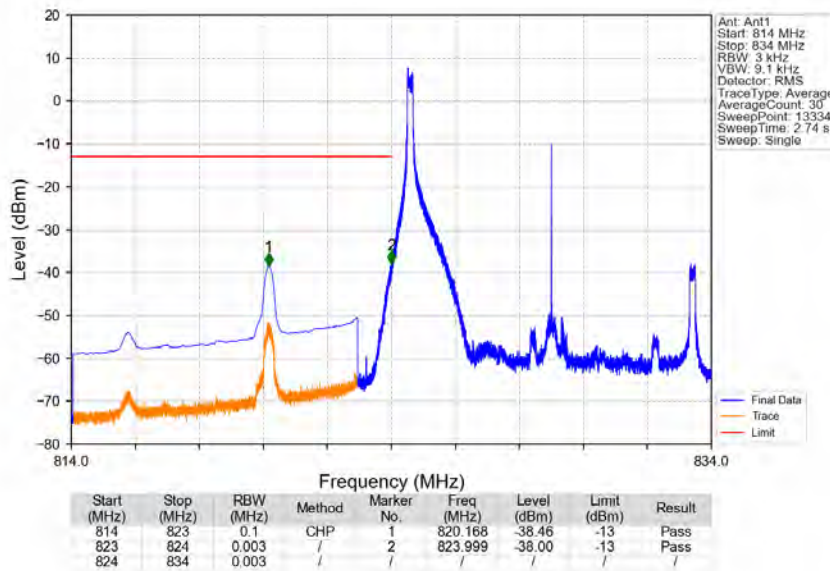
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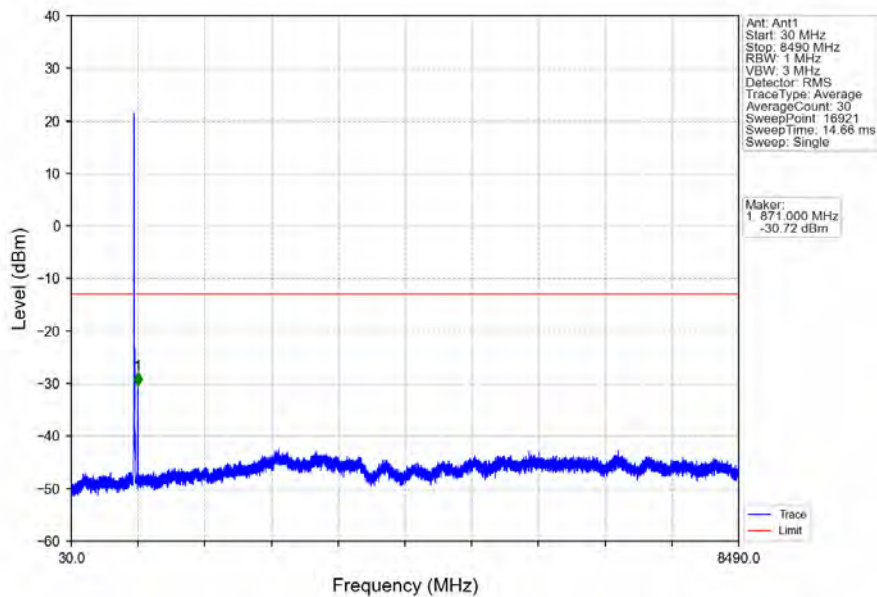
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Band5_10MHz_64QAM_LCH_829MHz_RB_1_0_NTNV



Band5_10MHz_64QAM_LCH_829MHz_RB_1_0_NTNV



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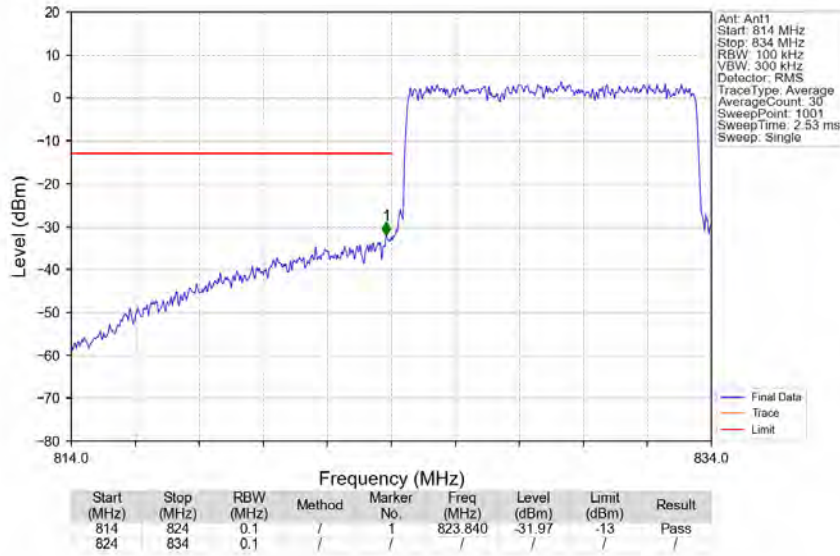
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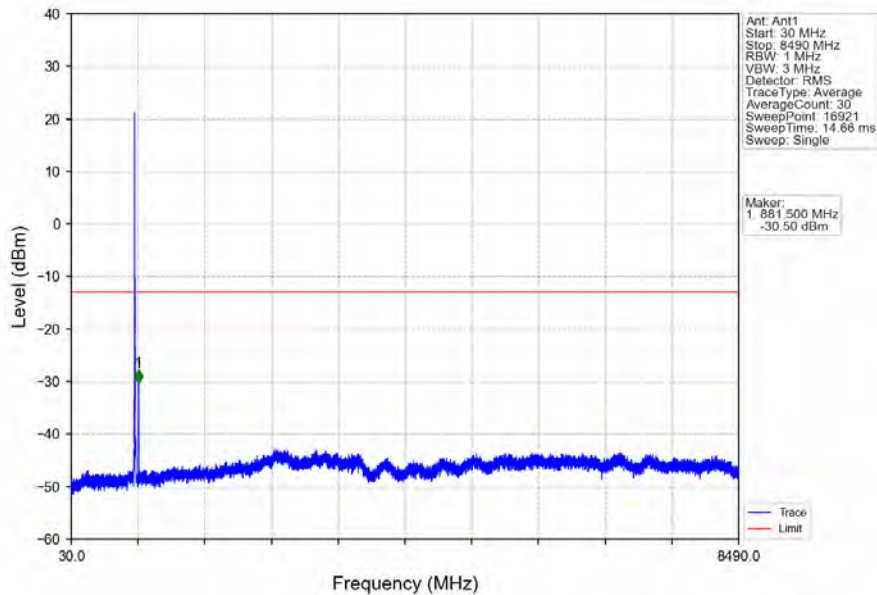
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Band5_10MHz_64QAM_LCH_829MHz_RB_50_0_NTNV



Band5_10MHz_64QAM_MCH_836.5MHz_RB_1_0_NTNV



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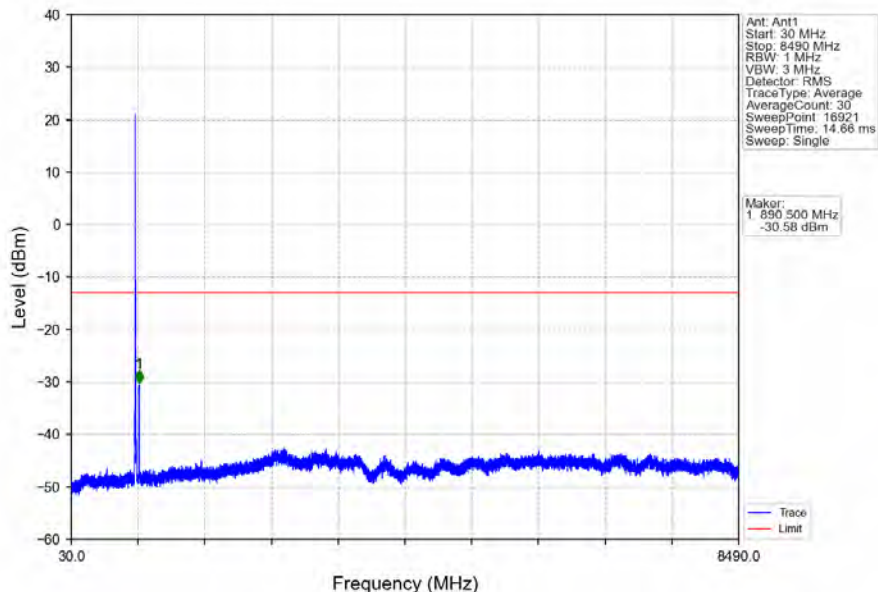
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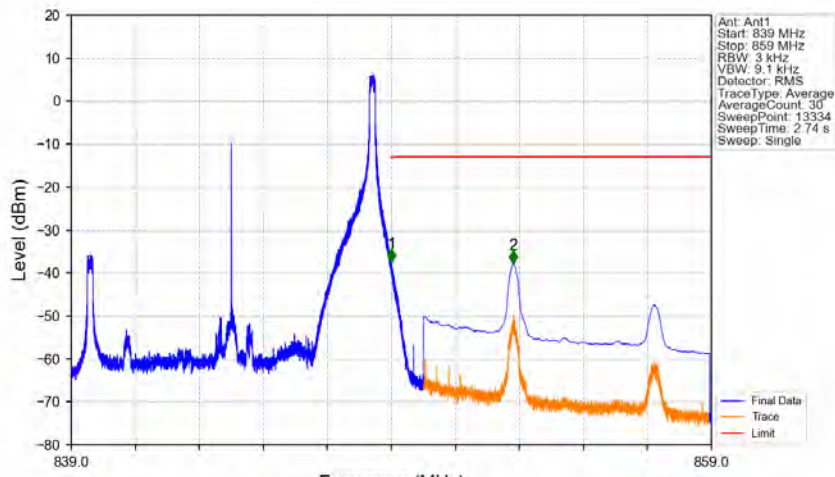
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Band5_10MHz_64QAM_HCH_844MHz_RB_1_0_NTNV



Band5_10MHz_64QAM_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	/	1	/	/	/	/
849	850	0.003	/	1	849.002	-37.53	-13	Pass
850	859	0.1	CHP	2	852.805	-37.83	-13	Pass



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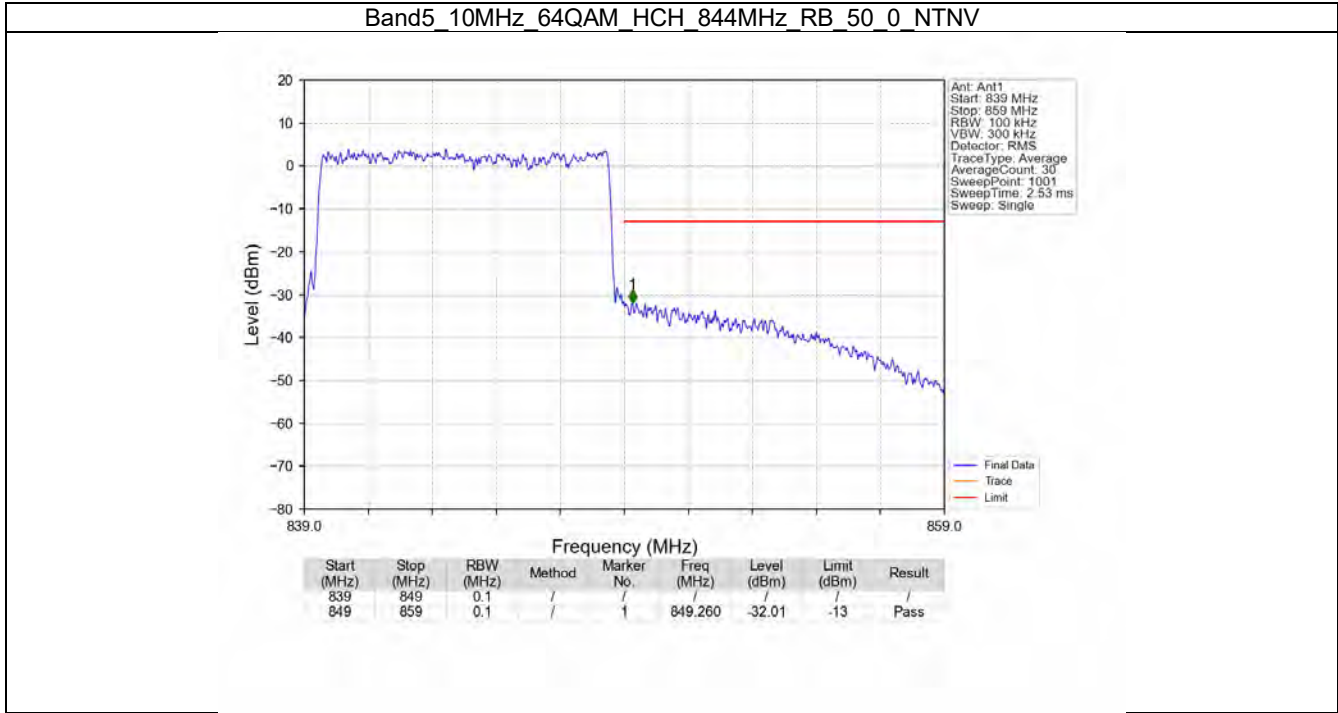
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