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 Rev.: 01
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Appendix B.8

LTE Band 5



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1. Effective (Isotropic) Radiated Power Output Data

1.1 B5_1.4MHz_ERP ANT1

1.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz / NTNv									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	824.7	1	0	23.9	-4.60	17.15	<=38.45	Pass	
			2	23.99	-4.60	17.24	<=38.45	Pass	
			5	23.96	-4.60	17.21	<=38.45	Pass	
		3	0	23.92	-4.60	17.17	<=38.45	Pass	
			2	23.94	-4.60	17.19	<=38.45	Pass	
			3	23.89	-4.60	17.14	<=38.45	Pass	
	836.5	1	0	22.93	-4.60	16.18	<=38.45	Pass	
			2	23.96	-4.60	17.21	<=38.45	Pass	
			5	24.05	-4.60	17.3	<=38.45	Pass	
		3	0	23.98	-4.60	17.23	<=38.45	Pass	
			2	24	-4.60	17.25	<=38.45	Pass	
			3	24.02	-4.60	17.27	<=38.45	Pass	
	848.3	1	0	22.93	-4.60	16.18	<=38.45	Pass	
			2	23.85	-4.60	17.1	<=38.45	Pass	
			5	23.92	-4.60	17.17	<=38.45	Pass	
		3	0	23.77	-4.60	17.02	<=38.45	Pass	
			2	23.89	-4.60	17.14	<=38.45	Pass	
			3	23.87	-4.60	17.12	<=38.45	Pass	
	16QAM	824.7	1	0	23.87	-4.60	17.12	<=38.45	Pass
				2	23.87	-4.60	17.12	<=38.45	Pass
				5	22.88	-4.60	16.13	<=38.45	Pass
			3	0	22.88	-4.60	16.13	<=38.45	Pass
				2	23.07	-4.60	16.32	<=38.45	Pass
				3	23.12	-4.60	16.37	<=38.45	Pass
836.5		1	0	22.96	-4.60	16.21	<=38.45	Pass	
			2	23.02	-4.60	16.27	<=38.45	Pass	
			3	23.06	-4.60	16.31	<=38.45	Pass	
		3	0	22.99	-4.60	16.24	<=38.45	Pass	
			2	21.89	-4.60	15.14	<=38.45	Pass	
			3	23.02	-4.60	16.27	<=38.45	Pass	



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	848.3	6	0	21.83	-4.60	15.08	<=38.45	Pass		
			1	0	23	-4.60	16.25	<=38.45	Pass	
				2	23.01	-4.60	16.26	<=38.45	Pass	
		5		22.97	-4.60	16.22	<=38.45	Pass		
		3	0	22.98	-4.60	16.23	<=38.45	Pass		
			2	22.91	-4.60	16.16	<=38.45	Pass		
	3		23	-4.60	16.25	<=38.45	Pass			
	64QAM	824.7	6	0	21.8	-4.60	15.05	<=38.45	Pass	
				1	0	21.98	-4.60	15.23	<=38.45	Pass
					2	21.93	-4.60	15.18	<=38.45	Pass
			5		21.94	-4.60	15.19	<=38.45	Pass	
			3	0	21.99	-4.60	15.24	<=38.45	Pass	
2				21.96	-4.60	15.21	<=38.45	Pass		
3		21.96		-4.60	15.21	<=38.45	Pass			
836.5		6	0	20.94	-4.60	14.19	<=38.45	Pass		
			1	0	22.02	-4.60	15.27	<=38.45	Pass	
				2	22.19	-4.60	15.44	<=38.45	Pass	
		5		22.17	-4.60	15.42	<=38.45	Pass		
		3	0	22.06	-4.60	15.31	<=38.45	Pass		
			2	22.07	-4.60	15.32	<=38.45	Pass		
			3	22.07	-4.60	15.32	<=38.45	Pass		
		848.3	6	0	20.94	-4.60	14.19	<=38.45	Pass	
				1	0	21.94	-4.60	15.19	<=38.45	Pass
					2	21.96	-4.60	15.21	<=38.45	Pass
			5		21.96	-4.60	15.21	<=38.45	Pass	
			3	0	21.94	-4.60	15.19	<=38.45	Pass	
2				21.94	-4.60	15.19	<=38.45	Pass		
3		21.97		-4.60	15.22	<=38.45	Pass			
6		0	20.94	-4.60	14.19	<=38.45	Pass			

Note1: 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	23.85	-4.60	17.1	<=38.45	Pass		
			7	23.95	-4.60	17.2	<=38.45	Pass		
			14	23.82	-4.60	17.07	<=38.45	Pass		
		8	0	22.94	-4.60	16.19	<=38.45	Pass		
			4	22.98	-4.60	16.23	<=38.45	Pass		
			7	22.93	-4.60	16.18	<=38.45	Pass		
		15	0	22.96	-4.60	16.21	<=38.45	Pass		
		836.5	1	0	23.95	-4.60	17.2	<=38.45	Pass	
				7	24.06	-4.60	17.31	<=38.45	Pass	
	14			23.95	-4.60	17.2	<=38.45	Pass		
	8		0	22.94	-4.60	16.19	<=38.45	Pass		
			4	23.06	-4.60	16.31	<=38.45	Pass		
			7	23.01	-4.60	16.26	<=38.45	Pass		
	15		0	22.95	-4.60	16.2	<=38.45	Pass		
	847.5		1	0	23.89	-4.60	17.14	<=38.45	Pass	
				7	23.97	-4.60	17.22	<=38.45	Pass	
		14		23.84	-4.60	17.09	<=38.45	Pass		
		8	0	22.87	-4.60	16.12	<=38.45	Pass		
			4	22.95	-4.60	16.2	<=38.45	Pass		
			7	22.9	-4.60	16.15	<=38.45	Pass		
		15	0	22.91	-4.60	16.16	<=38.45	Pass		
		16QAM	825.5	1	0	22.95	-4.60	16.2	<=38.45	Pass
					7	23.11	-4.60	16.36	<=38.45	Pass
	14				22.99	-4.60	16.24	<=38.45	Pass	
8	0			22.03	-4.60	15.28	<=38.45	Pass		
	4			21.96	-4.60	15.21	<=38.45	Pass		
	7			22.03	-4.60	15.28	<=38.45	Pass		
15	0		21.96	-4.60	15.21	<=38.45	Pass			
836.5	1		0	23.04	-4.60	16.29	<=38.45	Pass		
			7	23.14	-4.60	16.39	<=38.45	Pass		
			14	23.06	-4.60	16.31	<=38.45	Pass		
	8		0	21.91	-4.60	15.16	<=38.45	Pass		
			4	22.09	-4.60	15.34	<=38.45	Pass		
			7	22.05	-4.60	15.3	<=38.45	Pass		
15	0		21.96	-4.60	15.21	<=38.45	Pass			
847.5	1		0	22.99	-4.60	16.24	<=38.45	Pass		
			7	23.08	-4.60	16.33	<=38.45	Pass		



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			14	23.04	-4.60	16.29	<=38.45	Pass		
			0	21.91	-4.60	15.16	<=38.45	Pass		
		8	4	21.92	-4.60	15.17	<=38.45	Pass		
			7	21.93	-4.60	15.18	<=38.45	Pass		
		15	0	21.91	-4.60	15.16	<=38.45	Pass		
64QAM	825.5	1	0	22.16	-4.60	15.41	<=38.45	Pass		
			7	22.07	-4.60	15.32	<=38.45	Pass		
			14	22.14	-4.60	15.39	<=38.45	Pass		
		8	0	20.89	-4.60	14.14	<=38.45	Pass		
			4	20.95	-4.60	14.2	<=38.45	Pass		
			7	20.86	-4.60	14.11	<=38.45	Pass		
		15	0	20.99	-4.60	14.24	<=38.45	Pass		
		836.5	1	0	21.93	-4.60	15.18	<=38.45	Pass	
				7	22.09	-4.60	15.34	<=38.45	Pass	
	14			22.08	-4.60	15.33	<=38.45	Pass		
	8		0	20.98	-4.60	14.23	<=38.45	Pass		
			4	21.08	-4.60	14.33	<=38.45	Pass		
			7	21.1	-4.60	14.35	<=38.45	Pass		
	15		0	20.96	-4.60	14.21	<=38.45	Pass		
	847.5		1	0	22	-4.60	15.25	<=38.45	Pass	
				7	22.1	-4.60	15.35	<=38.45	Pass	
		14		21.96	-4.60	15.21	<=38.45	Pass		
		8	0	20.97	-4.60	14.22	<=38.45	Pass		
			4	21.01	-4.60	14.26	<=38.45	Pass		
			7	20.9	-4.60	14.15	<=38.45	Pass		
		15	0	20.93	-4.60	14.18	<=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	23.96	-4.60	17.21	<=38.45	Pass		
			13	24.04	-4.60	17.29	<=38.45	Pass		
			24	23.9	-4.60	17.15	<=38.45	Pass		
		12	0	22.92	-4.60	16.17	<=38.45	Pass		
			6	23.02	-4.60	16.27	<=38.45	Pass		
			13	22.98	-4.60	16.23	<=38.45	Pass		
		25	0	22.97	-4.60	16.22	<=38.45	Pass		
		836.5	1	0	23.93	-4.60	17.18	<=38.45	Pass	
				13	24.04	-4.60	17.29	<=38.45	Pass	
	24			23.96	-4.60	17.21	<=38.45	Pass		
	12		0	22.96	-4.60	16.21	<=38.45	Pass		
			6	23	-4.60	16.25	<=38.45	Pass		
			13	23.01	-4.60	16.26	<=38.45	Pass		
	25		0	22.96	-4.60	16.21	<=38.45	Pass		
	846.5		1	0	23.99	-4.60	17.24	<=38.45	Pass	
				13	24	-4.60	17.25	<=38.45	Pass	
		24		23.89	-4.60	17.14	<=38.45	Pass		
		12	0	22.88	-4.60	16.13	<=38.45	Pass		
			6	23	-4.60	16.25	<=38.45	Pass		
			13	22.94	-4.60	16.19	<=38.45	Pass		
		25	0	22.97	-4.60	16.22	<=38.45	Pass		
		16QAM	826.5	1	0	23.02	-4.60	16.27	<=38.45	Pass
					13	23	-4.60	16.25	<=38.45	Pass
	24				22.9	-4.60	16.15	<=38.45	Pass	
12	0			21.83	-4.60	15.08	<=38.45	Pass		
	6			22.11	-4.60	15.36	<=38.45	Pass		
	13			22.03	-4.60	15.28	<=38.45	Pass		
25	0			22.01	-4.60	15.26	<=38.45	Pass		
836.5	1			0	23.11	-4.60	16.36	<=38.45	Pass	
				13	23.12	-4.60	16.37	<=38.45	Pass	
			24	23.09	-4.60	16.34	<=38.45	Pass		
	12		0	21.95	-4.60	15.2	<=38.45	Pass		
			6	21.97	-4.60	15.22	<=38.45	Pass		
			13	22.07	-4.60	15.32	<=38.45	Pass		
	25		0	21.95	-4.60	15.2	<=38.45	Pass		
	846.5		1	0	23.12	-4.60	16.37	<=38.45	Pass	
				13	23.1	-4.60	16.35	<=38.45	Pass	



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			24	23.02	-4.60	16.27	<=38.45	Pass	
			0	22.05	-4.60	15.3	<=38.45	Pass	
		12	6	22.01	-4.60	15.26	<=38.45	Pass	
			13	21.91	-4.60	15.16	<=38.45	Pass	
		25	0	21.96	-4.60	15.21	<=38.45	Pass	
64QAM	826.5	1	0	21.9	-4.60	15.15	<=38.45	Pass	
			13	22.06	-4.60	15.31	<=38.45	Pass	
			24	21.95	-4.60	15.2	<=38.45	Pass	
		12	0	20.95	-4.60	14.2	<=38.45	Pass	
			6	20.99	-4.60	14.24	<=38.45	Pass	
			13	20.98	-4.60	14.23	<=38.45	Pass	
		25	0	20.97	-4.60	14.22	<=38.45	Pass	
		836.5	1	0	22.12	-4.60	15.37	<=38.45	Pass
				13	22.18	-4.60	15.43	<=38.45	Pass
	24			22.09	-4.60	15.34	<=38.45	Pass	
	12		0	20.97	-4.60	14.22	<=38.45	Pass	
			6	21	-4.60	14.25	<=38.45	Pass	
			13	21.02	-4.60	14.27	<=38.45	Pass	
	25		0	20.94	-4.60	14.19	<=38.45	Pass	
	846.5		1	0	22.18	-4.60	15.43	<=38.45	Pass
				13	22.22	-4.60	15.47	<=38.45	Pass
		24		22.02	-4.60	15.27	<=38.45	Pass	
		12	0	20.92	-4.60	14.17	<=38.45	Pass	
			6	20.98	-4.60	14.23	<=38.45	Pass	
			13	20.94	-4.60	14.19	<=38.45	Pass	
		25	0	20.96	-4.60	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 / NTNV										
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict		
		Size	Offset			Result	Limit			
QPSK	829	1	0	23.93	-4.60	17.18	<=38.45	Pass		
			25	23.92	-4.60	17.17	<=38.45	Pass		
			49	23.85	-4.60	17.1	<=38.45	Pass		
		25	0	22.9	-4.60	16.15	<=38.45	Pass		
			13	23.02	-4.60	16.27	<=38.45	Pass		
			25	22.96	-4.60	16.21	<=38.45	Pass		
		50	0	22.98	-4.60	16.23	<=38.45	Pass		
		836.5	1	0	24.02	-4.60	17.27	<=38.45	Pass	
				25	24.07	-4.60	17.32	<=38.45	Pass	
	49			23.97	-4.60	17.22	<=38.45	Pass		
	25		0	22.99	-4.60	16.24	<=38.45	Pass		
			13	22.99	-4.60	16.24	<=38.45	Pass		
			25	23.01	-4.60	16.26	<=38.45	Pass		
	50		0	22.99	-4.60	16.24	<=38.45	Pass		
	844		1	0	23.96	-4.60	17.21	<=38.45	Pass	
				25	23.94	-4.60	17.19	<=38.45	Pass	
		49		23.79	-4.60	17.04	<=38.45	Pass		
		25	0	22.96	-4.60	16.21	<=38.45	Pass		
			13	22.99	-4.60	16.24	<=38.45	Pass		
			25	22.92	-4.60	16.17	<=38.45	Pass		
		50	0	22.97	-4.60	16.22	<=38.45	Pass		
		16QAM	829	1	0	23.11	-4.60	16.36	<=38.45	Pass
					25	23.09	-4.60	16.34	<=38.45	Pass
	49				22.96	-4.60	16.21	<=38.45	Pass	
25	0			21.94	-4.60	15.19	<=38.45	Pass		
	13			22.02	-4.60	15.27	<=38.45	Pass		
	25			21.96	-4.60	15.21	<=38.45	Pass		
50	0		22.01	-4.60	15.26	<=38.45	Pass			
836.5	1		0	23.16	-4.60	16.41	<=38.45	Pass		
			25	23.19	-4.60	16.44	<=38.45	Pass		
			49	23.06	-4.60	16.31	<=38.45	Pass		
	25		0	22	-4.60	15.25	<=38.45	Pass		
			13	21.98	-4.60	15.23	<=38.45	Pass		
			25	22.02	-4.60	15.27	<=38.45	Pass		
50	0		21.99	-4.60	15.24	<=38.45	Pass			
844	1		0	23.13	-4.60	16.38	<=38.45	Pass		
			25	23.14	-4.60	16.39	<=38.45	Pass		



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			49	22.94	-4.60	16.19	<=38.45	Pass	
			0	21.95	-4.60	15.2	<=38.45	Pass	
		25	13	22.01	-4.60	15.26	<=38.45	Pass	
			25	21.97	-4.60	15.22	<=38.45	Pass	
		50	0	22	-4.60	15.25	<=38.45	Pass	
64QAM	829	1	0	22.05	-4.60	15.3	<=38.45	Pass	
			25	22.05	-4.60	15.3	<=38.45	Pass	
			49	22.01	-4.60	15.26	<=38.45	Pass	
		25	0	20.9	-4.60	14.15	<=38.45	Pass	
			13	21.04	-4.60	14.29	<=38.45	Pass	
			25	20.97	-4.60	14.22	<=38.45	Pass	
		50	0	21	-4.60	14.25	<=38.45	Pass	
		836.5	1	0	22.23	-4.60	15.48	<=38.45	Pass
				25	22.24	-4.60	15.49	<=38.45	Pass
	49			22.04	-4.60	15.29	<=38.45	Pass	
	25		0	21	-4.60	14.25	<=38.45	Pass	
			13	21	-4.60	14.25	<=38.45	Pass	
			25	21.02	-4.60	14.27	<=38.45	Pass	
	50		0	20.98	-4.60	14.23	<=38.45	Pass	
	844		1	0	22.16	-4.60	15.41	<=38.45	Pass
				25	22.1	-4.60	15.35	<=38.45	Pass
		49		21.85	-4.60	15.1	<=38.45	Pass	
		25	0	20.96	-4.60	14.21	<=38.45	Pass	
			13	21	-4.60	14.25	<=38.45	Pass	
			25	20.91	-4.60	14.16	<=38.45	Pass	
		50	0	21	-4.60	14.25	<=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	3.5	-8.527	-0.0103	-2.5 to 2.5	Pass
					3.91	-9.780	-0.0119	-2.5 to 2.5	Pass
					4.35	-14.373	-0.0174	-2.5 to 2.5	Pass
				-30	3.91	-19.601	-0.0238	-2.5 to 2.5	Pass
				-20	3.91	-17.009	-0.0206	-2.5 to 2.5	Pass
				-10	3.91	-12.704	-0.0154	-2.5 to 2.5	Pass
				0	3.91	-5.105	-0.0062	-2.5 to 2.5	Pass
				10	3.91	-3.958	-0.0048	-2.5 to 2.5	Pass
				30	3.91	-1.071	-0.0013	-2.5 to 2.5	Pass
	40	3.91	-0.191	-0.0002	-2.5 to 2.5	Pass			
	50	3.91	1.305	0.0016	-2.5 to 2.5	Pass			
	836.5	6	0	20	3.5	-7.497	-0.0090	-2.5 to 2.5	Pass
					3.91	-9.618	-0.0115	-2.5 to 2.5	Pass
					4.35	-13.293	-0.0159	-2.5 to 2.5	Pass
				-30	3.91	-19.750	-0.0236	-2.5 to 2.5	Pass
				-20	3.91	-19.070	-0.0228	-2.5 to 2.5	Pass
				-10	3.91	-13.513	-0.0162	-2.5 to 2.5	Pass
				0	3.91	-5.881	-0.0070	-2.5 to 2.5	Pass
				10	3.91	-3.630	-0.0043	-2.5 to 2.5	Pass
				30	3.91	-1.421	-0.0017	-2.5 to 2.5	Pass
	40	3.91	-1.524	-0.0018	-2.5 to 2.5	Pass			
	50	3.91	-0.247	-0.0003	-2.5 to 2.5	Pass			
	848.3	6	0	20	3.5	-3.915	-0.0046	-2.5 to 2.5	Pass
					3.91	-8.106	-0.0096	-2.5 to 2.5	Pass
					4.35	-9.246	-0.0109	-2.5 to 2.5	Pass
				-30	3.91	-14.927	-0.0176	-2.5 to 2.5	Pass
				-20	3.91	-18.788	-0.0221	-2.5 to 2.5	Pass
-10				3.91	-18.877	-0.0223	-2.5 to 2.5	Pass	
0				3.91	-13.847	-0.0163	-2.5 to 2.5	Pass	
10				3.91	-9.021	-0.0106	-2.5 to 2.5	Pass	
30				3.91	-4.980	-0.0059	-2.5 to 2.5	Pass	
40	3.91	-2.116	-0.0025	-2.5 to 2.5	Pass				
50	3.91	-3.308	-0.0039	-2.5 to 2.5	Pass				
16QAM	824.7	6	0	20	3.5	-0.116	-0.0001	-2.5 to 2.5	Pass
					3.91	0.845	0.0010	-2.5 to 2.5	Pass



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					4.35	1.153	0.0014	-2.5 to 2.5	Pass	
				-30	3.91	0.531	0.0006	-2.5 to 2.5	Pass	
				-20	3.91	-0.512	-0.0006	-2.5 to 2.5	Pass	
				-10	3.91	1.638	0.0020	-2.5 to 2.5	Pass	
				0	3.91	1.145	0.0014	-2.5 to 2.5	Pass	
				10	3.91	1.958	0.0024	-2.5 to 2.5	Pass	
				30	3.91	2.299	0.0028	-2.5 to 2.5	Pass	
				40	3.91	0.075	0.0001	-2.5 to 2.5	Pass	
				50	3.91	2.121	0.0026	-2.5 to 2.5	Pass	
				836.5	6	0		20	3.5	0.696
	3.91	0.483	0.0006						-2.5 to 2.5	Pass
	4.35	-0.300	-0.0004						-2.5 to 2.5	Pass
	-30	3.91	1.372					0.0016	-2.5 to 2.5	Pass
	-20	3.91	0.603					0.0007	-2.5 to 2.5	Pass
	-10	3.91	0.560					0.0007	-2.5 to 2.5	Pass
	0	3.91	0.936					0.0011	-2.5 to 2.5	Pass
	10	3.91	0.625					0.0007	-2.5 to 2.5	Pass
	30	3.91	1.644					0.0020	-2.5 to 2.5	Pass
	40	3.91	0.635					0.0008	-2.5 to 2.5	Pass
	50	3.91	0.281	0.0003	-2.5 to 2.5	Pass				
848.3	6	0		20	3.5	-0.557	-0.0007	-2.5 to 2.5	Pass	
					3.91	-1.477	-0.0017	-2.5 to 2.5	Pass	
					4.35	-0.138	-0.0002	-2.5 to 2.5	Pass	
				-30	3.91	0.599	0.0007	-2.5 to 2.5	Pass	
				-20	3.91	-0.265	-0.0003	-2.5 to 2.5	Pass	
				-10	3.91	0.520	0.0006	-2.5 to 2.5	Pass	
				0	3.91	-0.407	-0.0005	-2.5 to 2.5	Pass	
				10	3.91	1.338	0.0016	-2.5 to 2.5	Pass	
				30	3.91	0.404	0.0005	-2.5 to 2.5	Pass	
				40	3.91	0.827	0.0010	-2.5 to 2.5	Pass	
50	3.91	0.190	0.0002	-2.5 to 2.5	Pass					
64QAM	824.7	6	0	20	3.5	0.339	0.0004	-2.5 to 2.5	Pass	
					3.91	0.983	0.0012	-2.5 to 2.5	Pass	
					4.35	0.643	0.0008	-2.5 to 2.5	Pass	
				-30	3.91	-0.326	-0.0004	-2.5 to 2.5	Pass	
				-20	3.91	-0.548	-0.0007	-2.5 to 2.5	Pass	
				-10	3.91	0.769	0.0009	-2.5 to 2.5	Pass	
				0	3.91	0.191	0.0002	-2.5 to 2.5	Pass	
				10	3.91	0.709	0.0009	-2.5 to 2.5	Pass	
				30	3.91	0.776	0.0009	-2.5 to 2.5	Pass	
				40	3.91	-0.219	-0.0003	-2.5 to 2.5	Pass	
	50	3.91	1.210	0.0015	-2.5 to 2.5	Pass				
	836.5	6	0		20	3.5	-0.822	-0.0010	-2.5 to 2.5	Pass
						3.91	0.194	0.0002	-2.5 to 2.5	Pass
						4.35	1.505	0.0018	-2.5 to 2.5	Pass
					-30	3.91	0.578	0.0007	-2.5 to 2.5	Pass
					-20	3.91	1.019	0.0012	-2.5 to 2.5	Pass
					-10	3.91	0.968	0.0012	-2.5 to 2.5	Pass



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848.3	6	0	0	3.91	1.160	0.0014	-2.5 to 2.5	Pass
			10	3.91	1.325	0.0016	-2.5 to 2.5	Pass
			30	3.91	1.299	0.0016	-2.5 to 2.5	Pass
			40	3.91	2.310	0.0028	-2.5 to 2.5	Pass
			50	3.91	0.534	0.0006	-2.5 to 2.5	Pass
	0	20	3.5	0.106	0.0001	-2.5 to 2.5	Pass	
			3.91	1.030	0.0012	-2.5 to 2.5	Pass	
			4.35	1.428	0.0017	-2.5 to 2.5	Pass	
		-30	3.91	1.923	0.0023	-2.5 to 2.5	Pass	
		-20	3.91	0.071	0.0001	-2.5 to 2.5	Pass	
		-10	3.91	0.640	0.0008	-2.5 to 2.5	Pass	
		0	3.91	0.151	0.0002	-2.5 to 2.5	Pass	
		10	3.91	0.837	0.0010	-2.5 to 2.5	Pass	
		30	3.91	1.304	0.0015	-2.5 to 2.5	Pass	
		40	3.91	0.971	0.0011	-2.5 to 2.5	Pass	
		50	3.91	0.581	0.0007	-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	3.5	0.246	0.0003	-2.5 to 2.5	Pass	
					3.91	0.123	0.0001	-2.5 to 2.5	Pass	
					4.35	0.294	0.0004	-2.5 to 2.5	Pass	
				-30	3.91	1.247	0.0015	-2.5 to 2.5	Pass	
					-20	3.91	0.911	0.0011	-2.5 to 2.5	Pass
					-10	3.91	2.416	0.0029	-2.5 to 2.5	Pass
				0	3.91	0.396	0.0005	-2.5 to 2.5	Pass	
					10	3.91	1.959	0.0024	-2.5 to 2.5	Pass
					30	3.91	0.637	0.0008	-2.5 to 2.5	Pass
	836.5	15	0	20	3.5	-0.287	-0.0003	-2.5 to 2.5	Pass	
					3.91	0.740	0.0009	-2.5 to 2.5	Pass	
					4.35	0.070	0.0001	-2.5 to 2.5	Pass	
				-30	3.91	1.353	0.0016	-2.5 to 2.5	Pass	
					-20	3.91	0.387	0.0005	-2.5 to 2.5	Pass
					-10	3.91	-0.093	-0.0001	-2.5 to 2.5	Pass
				0	3.91	0.065	0.0001	-2.5 to 2.5	Pass	
					10	3.91	0.588	0.0007	-2.5 to 2.5	Pass
					30	3.91	-0.673	-0.0008	-2.5 to 2.5	Pass
	847.5	15	0	20	3.5	1.381	0.0016	-2.5 to 2.5	Pass	
					3.91	0.926	0.0011	-2.5 to 2.5	Pass	
					4.35	0.796	0.0009	-2.5 to 2.5	Pass	
				-30	3.91	2.502	0.0030	-2.5 to 2.5	Pass	
					-20	3.91	0.294	0.0003	-2.5 to 2.5	Pass
					-10	3.91	0.293	0.0003	-2.5 to 2.5	Pass
				0	3.91	0.649	0.0008	-2.5 to 2.5	Pass	
					10	3.91	-0.356	-0.0004	-2.5 to 2.5	Pass
					30	3.91	0.002	0.0000	-2.5 to 2.5	Pass
16QAM	825.5	15	0	20	3.5	-0.750	-0.0009	-2.5 to 2.5	Pass	
					3.91	1.381	0.0017	-2.5 to 2.5	Pass	
					4.35	-0.547	-0.0007	-2.5 to 2.5	Pass	
				-30	3.91	0.799	0.0010	-2.5 to 2.5	Pass	



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				-20	3.91	-0.737	-0.0009	-2.5 to 2.5	Pass			
				-10	3.91	0.226	0.0003	-2.5 to 2.5	Pass			
				0	3.91	-0.608	-0.0007	-2.5 to 2.5	Pass			
				10	3.91	0.269	0.0003	-2.5 to 2.5	Pass			
				30	3.91	1.895	0.0023	-2.5 to 2.5	Pass			
				40	3.91	0.244	0.0003	-2.5 to 2.5	Pass			
				50	3.91	0.740	0.0009	-2.5 to 2.5	Pass			
	836.5	15	0	20	3.5	1.630	0.0019	-2.5 to 2.5	Pass			
					3.91	-0.095	-0.0001	-2.5 to 2.5	Pass			
					4.35	1.575	0.0019	-2.5 to 2.5	Pass			
				-30	3.91	1.331	0.0016	-2.5 to 2.5	Pass			
				-20	3.91	1.314	0.0016	-2.5 to 2.5	Pass			
				-10	3.91	0.906	0.0011	-2.5 to 2.5	Pass			
				0	3.91	1.024	0.0012	-2.5 to 2.5	Pass			
				10	3.91	0.030	0.0000	-2.5 to 2.5	Pass			
				30	3.91	1.552	0.0019	-2.5 to 2.5	Pass			
				40	3.91	0.025	0.0000	-2.5 to 2.5	Pass			
				50	3.91	-1.039	-0.0012	-2.5 to 2.5	Pass			
				847.5	15	0	20	3.5	0.383	0.0005	-2.5 to 2.5	Pass
								3.91	-0.426	-0.0005	-2.5 to 2.5	Pass
								4.35	-0.005	0.0000	-2.5 to 2.5	Pass
-30	3.91	0.322	0.0004				-2.5 to 2.5	Pass				
-20	3.91	-0.484	-0.0006				-2.5 to 2.5	Pass				
-10	3.91	1.522	0.0018				-2.5 to 2.5	Pass				
0	3.91	0.578	0.0007				-2.5 to 2.5	Pass				
10	3.91	1.211	0.0014				-2.5 to 2.5	Pass				
30	3.91	1.050	0.0012				-2.5 to 2.5	Pass				
40	3.91	0.529	0.0006				-2.5 to 2.5	Pass				
50	3.91	-0.841	-0.0010				-2.5 to 2.5	Pass				
64QAM	825.5	15	0				20	3.5	1.314	0.0016	-2.5 to 2.5	Pass
								3.91	0.791	0.0010	-2.5 to 2.5	Pass
								4.35	0.290	0.0004	-2.5 to 2.5	Pass
				-30	3.91	0.397	0.0005	-2.5 to 2.5	Pass			
				-20	3.91	-0.195	-0.0002	-2.5 to 2.5	Pass			
				-10	3.91	1.579	0.0019	-2.5 to 2.5	Pass			
				0	3.91	1.545	0.0019	-2.5 to 2.5	Pass			
				10	3.91	0.871	0.0011	-2.5 to 2.5	Pass			
				30	3.91	0.114	0.0001	-2.5 to 2.5	Pass			
				40	3.91	0.465	0.0006	-2.5 to 2.5	Pass			
				50	3.91	1.733	0.0021	-2.5 to 2.5	Pass			
				836.5	15	0	20	3.5	-0.400	-0.0005	-2.5 to 2.5	Pass
								3.91	0.609	0.0007	-2.5 to 2.5	Pass
								4.35	0.264	0.0003	-2.5 to 2.5	Pass
	-30	3.91	-0.616				-0.0007	-2.5 to 2.5	Pass			
	-20	3.91	0.927				0.0011	-2.5 to 2.5	Pass			
	-10	3.91	0.255				0.0003	-2.5 to 2.5	Pass			
	0	3.91	0.912				0.0011	-2.5 to 2.5	Pass			
	10	3.91	0.861	0.0010	-2.5 to 2.5	Pass						



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				30	3.91	0.864	0.0010	-2.5 to 2.5	Pass
				40	3.91	0.310	0.0004	-2.5 to 2.5	Pass
				50	3.91	-0.543	-0.0006	-2.5 to 2.5	Pass
				20	3.5	0.468	0.0006	-2.5 to 2.5	Pass
					3.91	0.494	0.0006	-2.5 to 2.5	Pass
					4.35	0.735	0.0009	-2.5 to 2.5	Pass
				-30	3.91	0.251	0.0003	-2.5 to 2.5	Pass
				-20	3.91	1.875	0.0022	-2.5 to 2.5	Pass
				-10	3.91	1.014	0.0012	-2.5 to 2.5	Pass
	847.5	15	0	0	3.91	0.940	0.0011	-2.5 to 2.5	Pass
				10	3.91	0.761	0.0009	-2.5 to 2.5	Pass
				30	3.91	1.560	0.0018	-2.5 to 2.5	Pass
				40	3.91	0.110	0.0001	-2.5 to 2.5	Pass
				50	3.91	1.071	0.0013	-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	3.5	-0.709	-0.0009	-2.5 to 2.5	Pass	
					3.91	0.825	0.0010	-2.5 to 2.5	Pass	
					4.35	-0.621	-0.0008	-2.5 to 2.5	Pass	
				-30	3.91	0.754	0.0009	-2.5 to 2.5	Pass	
					-20	3.91	0.865	0.0010	-2.5 to 2.5	Pass
					-10	3.91	0.420	0.0005	-2.5 to 2.5	Pass
				0	3.91	-0.553	-0.0007	-2.5 to 2.5	Pass	
					10	3.91	1.698	0.0021	-2.5 to 2.5	Pass
					30	3.91	-0.243	-0.0003	-2.5 to 2.5	Pass
	836.5	25	0	20	3.5	-1.225	-0.0015	-2.5 to 2.5	Pass	
					3.91	0.584	0.0007	-2.5 to 2.5	Pass	
					4.35	-0.421	-0.0005	-2.5 to 2.5	Pass	
				-30	3.91	-0.428	-0.0005	-2.5 to 2.5	Pass	
					-20	3.91	0.792	0.0009	-2.5 to 2.5	Pass
					-10	3.91	-0.120	-0.0001	-2.5 to 2.5	Pass
				0	3.91	-0.783	-0.0009	-2.5 to 2.5	Pass	
					10	3.91	1.012	0.0012	-2.5 to 2.5	Pass
					30	3.91	1.056	0.0013	-2.5 to 2.5	Pass
	846.5	25	0	20	3.5	1.151	0.0014	-2.5 to 2.5	Pass	
					3.91	2.402	0.0028	-2.5 to 2.5	Pass	
					4.35	2.082	0.0025	-2.5 to 2.5	Pass	
				-30	3.91	1.829	0.0022	-2.5 to 2.5	Pass	
					-20	3.91	0.880	0.0010	-2.5 to 2.5	Pass
					-10	3.91	0.822	0.0010	-2.5 to 2.5	Pass
				0	3.91	2.817	0.0033	-2.5 to 2.5	Pass	
					10	3.91	2.362	0.0028	-2.5 to 2.5	Pass
					30	3.91	1.351	0.0016	-2.5 to 2.5	Pass
16QAM	826.5	25	0	20	3.5	1.309	0.0016	-2.5 to 2.5	Pass	
					3.91	1.482	0.0018	-2.5 to 2.5	Pass	
					4.35	0.745	0.0009	-2.5 to 2.5	Pass	
				-30	3.91	0.905	0.0011	-2.5 to 2.5	Pass	



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				-20	3.91	-0.413	-0.0005	-2.5 to 2.5	Pass			
				-10	3.91	-0.093	-0.0001	-2.5 to 2.5	Pass			
				0	3.91	-0.306	-0.0004	-2.5 to 2.5	Pass			
				10	3.91	1.715	0.0021	-2.5 to 2.5	Pass			
				30	3.91	-0.152	-0.0002	-2.5 to 2.5	Pass			
				40	3.91	-1.121	-0.0014	-2.5 to 2.5	Pass			
				50	3.91	-0.806	-0.0010	-2.5 to 2.5	Pass			
	836.5	25	0	20	3.5	-0.364	-0.0004	-2.5 to 2.5	Pass			
					3.91	-0.070	-0.0001	-2.5 to 2.5	Pass			
					4.35	0.244	0.0003	-2.5 to 2.5	Pass			
				-30	3.91	-0.397	-0.0005	-2.5 to 2.5	Pass			
				-20	3.91	0.801	0.0010	-2.5 to 2.5	Pass			
				-10	3.91	1.352	0.0016	-2.5 to 2.5	Pass			
				0	3.91	1.608	0.0019	-2.5 to 2.5	Pass			
				10	3.91	0.464	0.0006	-2.5 to 2.5	Pass			
				30	3.91	1.885	0.0023	-2.5 to 2.5	Pass			
				40	3.91	0.429	0.0005	-2.5 to 2.5	Pass			
				50	3.91	1.100	0.0013	-2.5 to 2.5	Pass			
				846.5	25	0	20	3.5	1.010	0.0012	-2.5 to 2.5	Pass
								3.91	0.947	0.0011	-2.5 to 2.5	Pass
								4.35	0.607	0.0007	-2.5 to 2.5	Pass
-30	3.91	3.463	0.0041				-2.5 to 2.5	Pass				
-20	3.91	0.509	0.0006				-2.5 to 2.5	Pass				
-10	3.91	0.937	0.0011				-2.5 to 2.5	Pass				
0	3.91	1.689	0.0020				-2.5 to 2.5	Pass				
10	3.91	1.086	0.0013				-2.5 to 2.5	Pass				
30	3.91	2.129	0.0025				-2.5 to 2.5	Pass				
40	3.91	-0.724	-0.0009				-2.5 to 2.5	Pass				
50	3.91	1.654	0.0020				-2.5 to 2.5	Pass				
64QAM	826.5	25	0				20	3.5	1.248	0.0015	-2.5 to 2.5	Pass
								3.91	0.645	0.0008	-2.5 to 2.5	Pass
								4.35	-0.033	0.0000	-2.5 to 2.5	Pass
				-30	3.91	0.350	0.0004	-2.5 to 2.5	Pass			
				-20	3.91	-0.509	-0.0006	-2.5 to 2.5	Pass			
				-10	3.91	1.412	0.0017	-2.5 to 2.5	Pass			
				0	3.91	0.622	0.0008	-2.5 to 2.5	Pass			
				10	3.91	-0.744	-0.0009	-2.5 to 2.5	Pass			
				30	3.91	0.535	0.0006	-2.5 to 2.5	Pass			
				40	3.91	0.058	0.0001	-2.5 to 2.5	Pass			
				50	3.91	-1.066	-0.0013	-2.5 to 2.5	Pass			
				836.5	25	0	20	3.5	-0.693	-0.0008	-2.5 to 2.5	Pass
								3.91	0.057	0.0001	-2.5 to 2.5	Pass
								4.35	1.048	0.0013	-2.5 to 2.5	Pass
	-30	3.91	-0.076				-0.0001	-2.5 to 2.5	Pass			
	-20	3.91	0.554				0.0007	-2.5 to 2.5	Pass			
	-10	3.91	1.110				0.0013	-2.5 to 2.5	Pass			
	0	3.91	0.675				0.0008	-2.5 to 2.5	Pass			
	10	3.91	-1.193	-0.0014	-2.5 to 2.5	Pass						



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846.5	25	0	30	3.91	0.970	0.0012	-2.5 to 2.5	Pass
			40	3.91	0.097	0.0001	-2.5 to 2.5	Pass
			50	3.91	1.611	0.0019	-2.5 to 2.5	Pass
			20	3.5	-0.275	-0.0003	-2.5 to 2.5	Pass
				3.91	0.425	0.0005	-2.5 to 2.5	Pass
				4.35	0.993	0.0012	-2.5 to 2.5	Pass
			-30	3.91	0.749	0.0009	-2.5 to 2.5	Pass
			-20	3.91	1.347	0.0016	-2.5 to 2.5	Pass
			-10	3.91	0.653	0.0008	-2.5 to 2.5	Pass
			0	3.91	0.024	0.0000	-2.5 to 2.5	Pass
			10	3.91	1.089	0.0013	-2.5 to 2.5	Pass
			30	3.91	0.033	0.0000	-2.5 to 2.5	Pass
			40	3.91	2.294	0.0027	-2.5 to 2.5	Pass
			50	3.91	0.527	0.0006	-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	3.5	-0.942	-0.0011	-2.5 to 2.5	Pass	
					3.91	-2.479	-0.0030	-2.5 to 2.5	Pass	
					4.35	0.213	0.0003	-2.5 to 2.5	Pass	
				-30	3.91	-1.047	-0.0013	-2.5 to 2.5	Pass	
					-20	3.91	-0.101	-0.0001	-2.5 to 2.5	Pass
					-10	3.91	0.475	0.0006	-2.5 to 2.5	Pass
				0	3.91	-1.043	-0.0013	-2.5 to 2.5	Pass	
					10	3.91	-1.363	-0.0016	-2.5 to 2.5	Pass
					30	3.91	-0.782	-0.0009	-2.5 to 2.5	Pass
	836.5	50	0	20	3.5	-2.412	-0.0029	-2.5 to 2.5	Pass	
					3.91	-2.472	-0.0030	-2.5 to 2.5	Pass	
					4.35	-0.324	-0.0004	-2.5 to 2.5	Pass	
				-30	3.91	-0.239	-0.0003	-2.5 to 2.5	Pass	
					-20	3.91	-0.009	0.0000	-2.5 to 2.5	Pass
					-10	3.91	-0.016	0.0000	-2.5 to 2.5	Pass
				0	3.91	0.040	0.0000	-2.5 to 2.5	Pass	
					10	3.91	0.957	0.0011	-2.5 to 2.5	Pass
					30	3.91	0.243	0.0003	-2.5 to 2.5	Pass
	844	50	0	20	3.5	-1.688	-0.0020	-2.5 to 2.5	Pass	
					3.91	-1.960	-0.0023	-2.5 to 2.5	Pass	
					4.35	-1.097	-0.0013	-2.5 to 2.5	Pass	
				-30	3.91	-0.753	-0.0009	-2.5 to 2.5	Pass	
					-20	3.91	-0.323	-0.0004	-2.5 to 2.5	Pass
					-10	3.91	-1.005	-0.0012	-2.5 to 2.5	Pass
				0	3.91	-1.252	-0.0015	-2.5 to 2.5	Pass	
					10	3.91	-1.979	-0.0023	-2.5 to 2.5	Pass
					30	3.91	0.038	0.0000	-2.5 to 2.5	Pass
16QAM	829	50	0	20	3.5	0.506	0.0006	-2.5 to 2.5	Pass	
					3.91	-0.899	-0.0011	-2.5 to 2.5	Pass	
					4.35	-0.556	-0.0007	-2.5 to 2.5	Pass	
				-30	3.91	-1.379	-0.0017	-2.5 to 2.5	Pass	



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64QAM	836.5	50	0	-20	3.91	-1.202	-0.0014	-2.5 to 2.5	Pass
				-10	3.91	-2.033	-0.0025	-2.5 to 2.5	Pass
				0	3.91	-1.346	-0.0016	-2.5 to 2.5	Pass
				10	3.91	-2.105	-0.0025	-2.5 to 2.5	Pass
				30	3.91	-1.027	-0.0012	-2.5 to 2.5	Pass
				40	3.91	-1.216	-0.0015	-2.5 to 2.5	Pass
				50	3.91	-2.006	-0.0024	-2.5 to 2.5	Pass
	844	50	0	20	3.5	-1.493	-0.0018	-2.5 to 2.5	Pass
					3.91	-1.330	-0.0016	-2.5 to 2.5	Pass
					4.35	-0.817	-0.0010	-2.5 to 2.5	Pass
				-30	3.91	-3.154	-0.0038	-2.5 to 2.5	Pass
				-20	3.91	-0.415	-0.0005	-2.5 to 2.5	Pass
				-10	3.91	-0.196	-0.0002	-2.5 to 2.5	Pass
				0	3.91	-0.329	-0.0004	-2.5 to 2.5	Pass
				10	3.91	0.085	0.0001	-2.5 to 2.5	Pass
				30	3.91	0.520	0.0006	-2.5 to 2.5	Pass
				40	3.91	-0.992	-0.0012	-2.5 to 2.5	Pass
				50	3.91	0.191	0.0002	-2.5 to 2.5	Pass
	829	50	0	20	3.5	0.117	0.0001	-2.5 to 2.5	Pass
					3.91	-1.752	-0.0021	-2.5 to 2.5	Pass
					4.35	-0.968	-0.0011	-2.5 to 2.5	Pass
				-30	3.91	-0.099	-0.0001	-2.5 to 2.5	Pass
				-20	3.91	0.448	0.0005	-2.5 to 2.5	Pass
				-10	3.91	0.231	0.0003	-2.5 to 2.5	Pass
				0	3.91	-0.460	-0.0005	-2.5 to 2.5	Pass
				10	3.91	-1.051	-0.0012	-2.5 to 2.5	Pass
				30	3.91	-0.641	-0.0008	-2.5 to 2.5	Pass
				40	3.91	0.359	0.0004	-2.5 to 2.5	Pass
50				3.91	-1.036	-0.0012	-2.5 to 2.5	Pass	
836.5	50	0	20	3.5	-1.533	-0.0018	-2.5 to 2.5	Pass	
				3.91	-2.111	-0.0025	-2.5 to 2.5	Pass	
				4.35	-2.255	-0.0027	-2.5 to 2.5	Pass	
			-30	3.91	-1.828	-0.0022	-2.5 to 2.5	Pass	
			-20	3.91	-1.168	-0.0014	-2.5 to 2.5	Pass	
			-10	3.91	-2.396	-0.0029	-2.5 to 2.5	Pass	
			0	3.91	-0.179	-0.0002	-2.5 to 2.5	Pass	
			10	3.91	-1.004	-0.0012	-2.5 to 2.5	Pass	
			30	3.91	-1.718	-0.0021	-2.5 to 2.5	Pass	
			40	3.91	-0.363	-0.0004	-2.5 to 2.5	Pass	
			50	3.91	-1.227	-0.0015	-2.5 to 2.5	Pass	
836.5	50	0	20	3.5	1.137	0.0014	-2.5 to 2.5	Pass	
				3.91	-0.501	-0.0006	-2.5 to 2.5	Pass	
				4.35	-0.107	-0.0001	-2.5 to 2.5	Pass	
			-30	3.91	-0.019	0.0000	-2.5 to 2.5	Pass	
			-20	3.91	-0.456	-0.0005	-2.5 to 2.5	Pass	
			-10	3.91	-2.318	-0.0028	-2.5 to 2.5	Pass	
			0	3.91	-0.610	-0.0007	-2.5 to 2.5	Pass	
10	3.91	0.093	0.0001	-2.5 to 2.5	Pass				



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844	50	0	30	3.91	0.141	0.0002	-2.5 to 2.5	Pass
			40	3.91	-0.128	-0.0002	-2.5 to 2.5	Pass
			50	3.91	-0.104	-0.0001	-2.5 to 2.5	Pass
			20	3.5	0.388	0.0005	-2.5 to 2.5	Pass
				3.91	-1.515	-0.0018	-2.5 to 2.5	Pass
				4.35	-1.002	-0.0012	-2.5 to 2.5	Pass
			-30	3.91	0.674	0.0008	-2.5 to 2.5	Pass
			-20	3.91	-1.378	-0.0016	-2.5 to 2.5	Pass
			-10	3.91	-0.812	-0.0010	-2.5 to 2.5	Pass
			0	3.91	-1.489	-0.0018	-2.5 to 2.5	Pass
			10	3.91	-0.480	-0.0006	-2.5 to 2.5	Pass
			30	3.91	-2.189	-0.0026	-2.5 to 2.5	Pass
			40	3.91	-1.420	-0.0017	-2.5 to 2.5	Pass
			50	3.91	-0.566	-0.0007	-2.5 to 2.5	Pass



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3. 99% & 26dB Bandwidth

3.1 Band5_OBW

3.1.1 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	1.127	/	Pass
		836.5	6	0	1.120	/	Pass
		848.3	6	0	1.120	/	Pass
	16QAM	824.7	6	0	1.123	/	Pass
		836.5	6	0	1.123	/	Pass
		848.3	6	0	1.125	/	Pass
	64QAM	824.7	6	0	1.127	/	Pass
		836.5	6	0	1.121	/	Pass
		848.3	6	0	1.118	/	Pass
3	QPSK	825.5	15	0	2.766	/	Pass
		836.5	15	0	2.753	/	Pass
		847.5	15	0	2.753	/	Pass
	16QAM	825.5	15	0	2.746	/	Pass
		836.5	15	0	2.737	/	Pass
		847.5	15	0	2.753	/	Pass
	64QAM	825.5	15	0	2.759	/	Pass
		836.5	15	0	2.756	/	Pass
		847.5	15	0	2.741	/	Pass
5	QPSK	826.5	25	0	4.588	/	Pass
		836.5	25	0	4.586	/	Pass
		846.5	25	0	4.562	/	Pass
	16QAM	826.5	25	0	4.568	/	Pass
		836.5	25	0	4.579	/	Pass
		846.5	25	0	4.577	/	Pass
	64QAM	826.5	25	0	4.564	/	Pass
		836.5	25	0	4.570	/	Pass
		846.5	25	0	4.572	/	Pass
10	QPSK	829	50	0	9.064	/	Pass
		836.5	50	0	9.054	/	Pass
		844	50	0	9.080	/	Pass
	16QAM	829	50	0	9.078	/	Pass
		836.5	50	0	9.081	/	Pass
		844	50	0	9.031	/	Pass
	64QAM	829	50	0	9.076	/	Pass
		836.5	50	0	9.080	/	Pass
		844	50	0	9.026	/	Pass

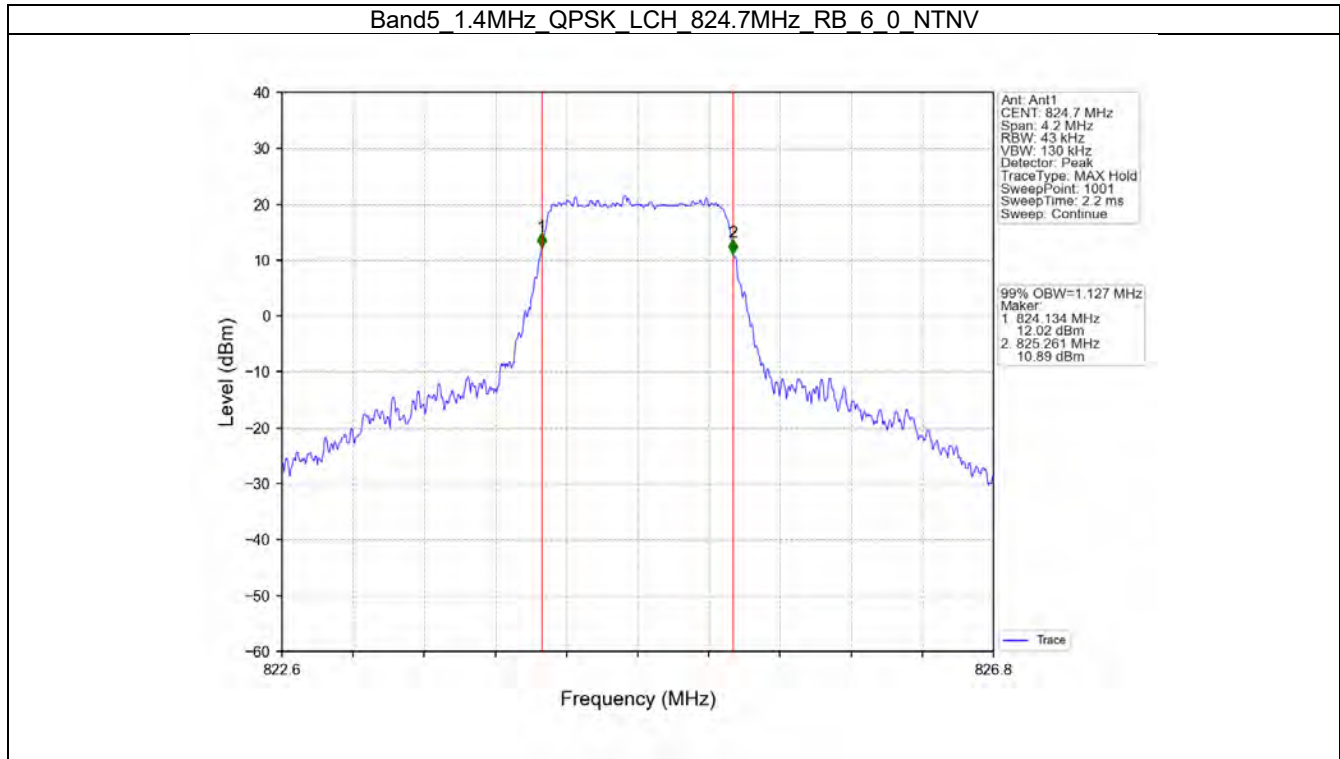


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3.1.2 Test Graph



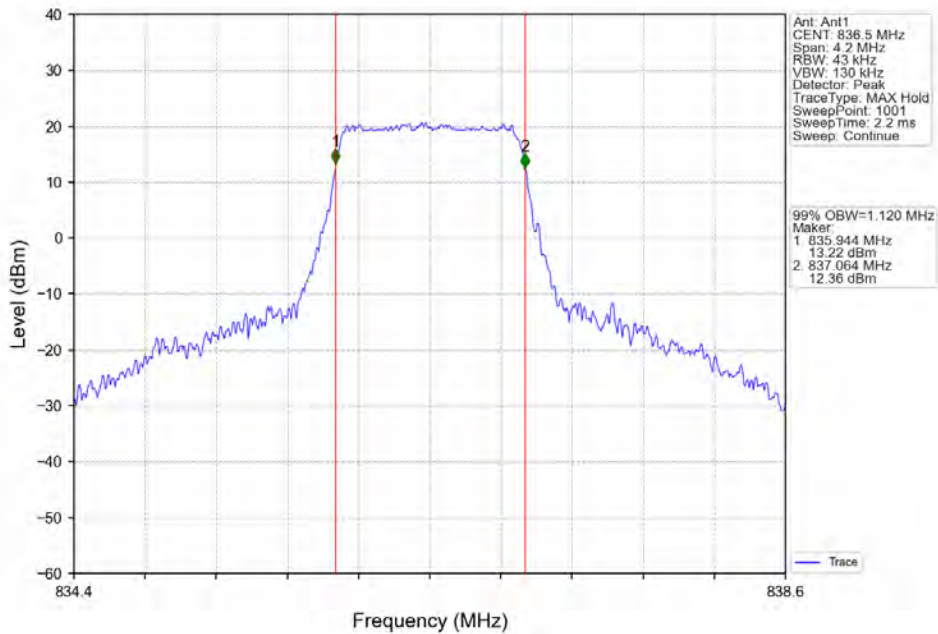
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Band5 1.4MHz QPSK MCH_836.5MHz RB_6_0_NTNV



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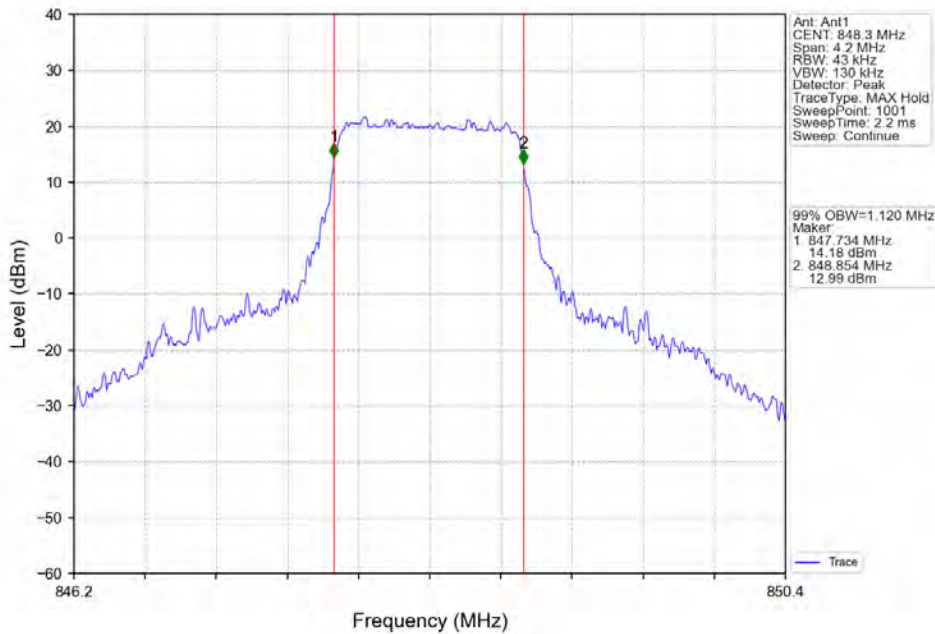
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Band5 1.4MHz QPSK HCH 848.3MHz RB 6_0 NTN



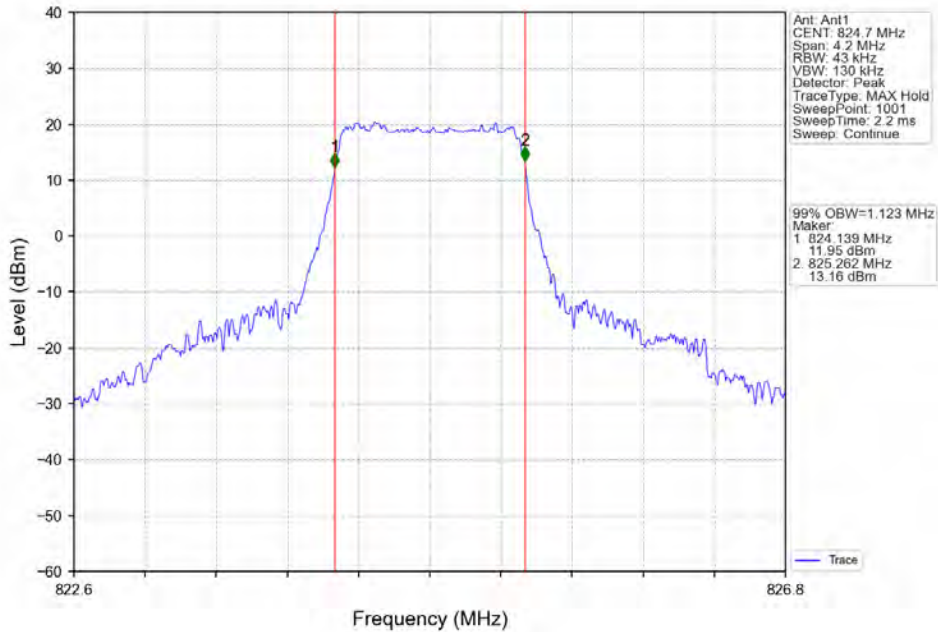
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Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



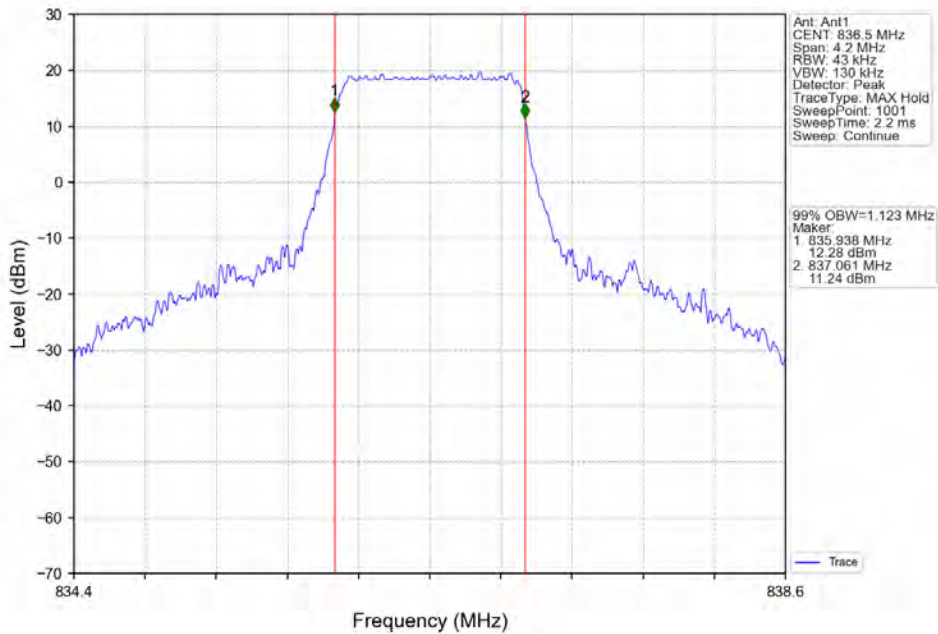
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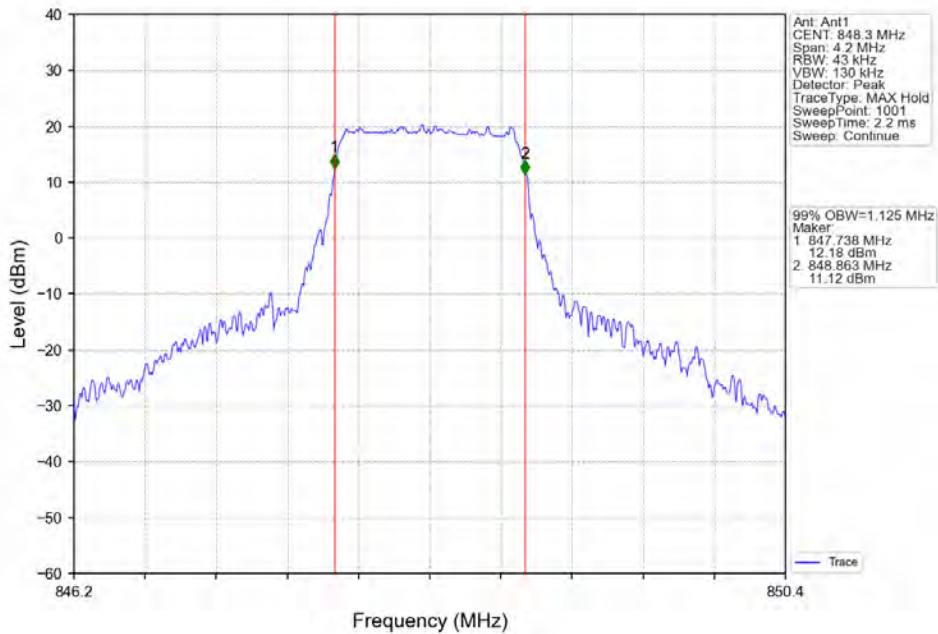
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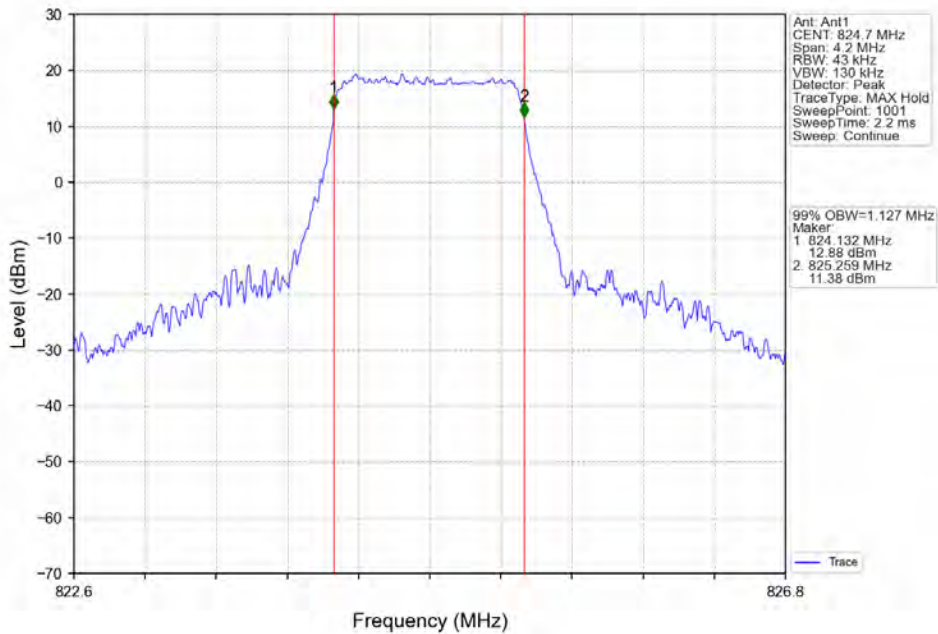
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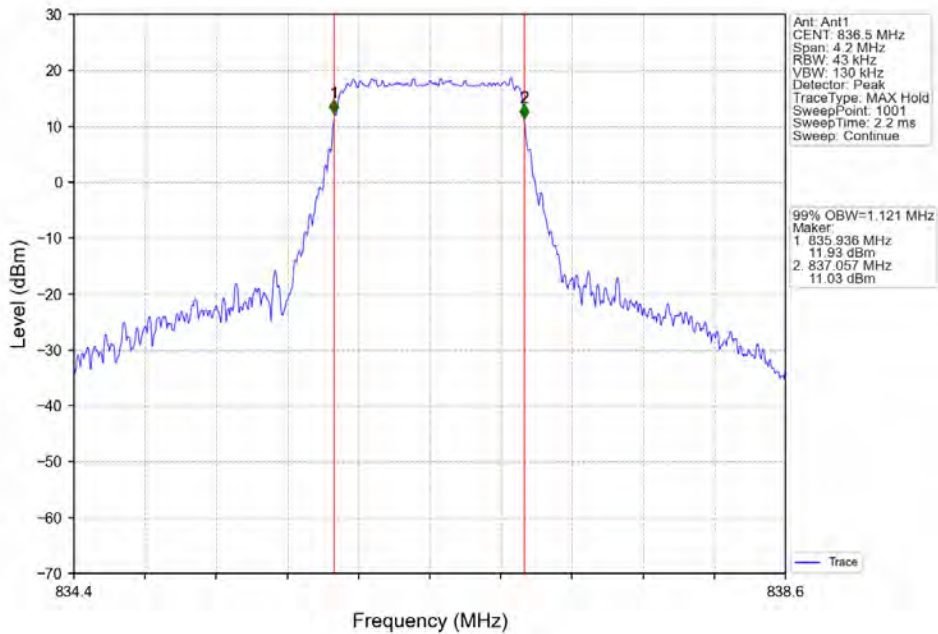
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Band5_1.4MHz_64QAM_MCH_836.5MHz_RB_6_0_NTNV



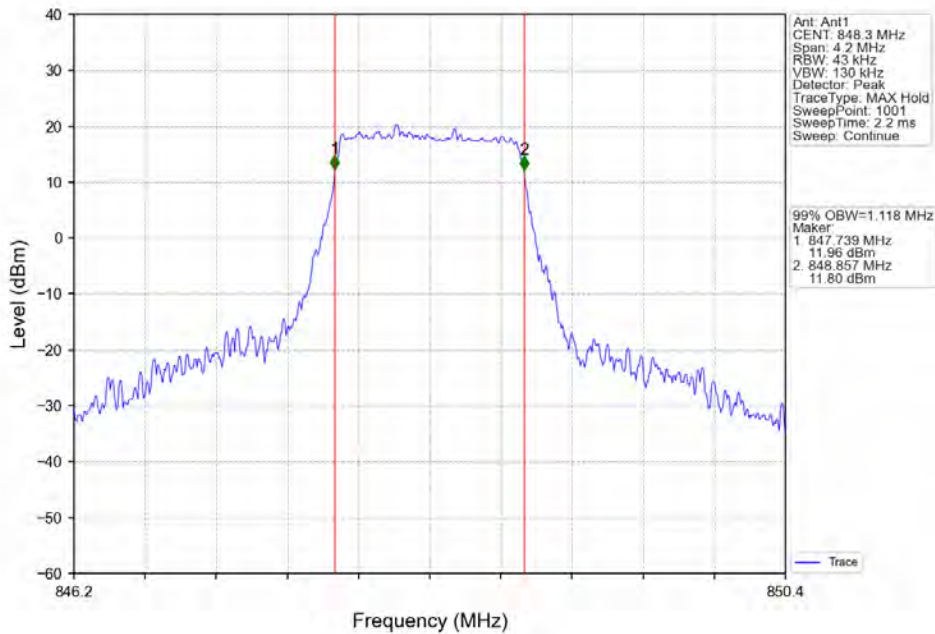
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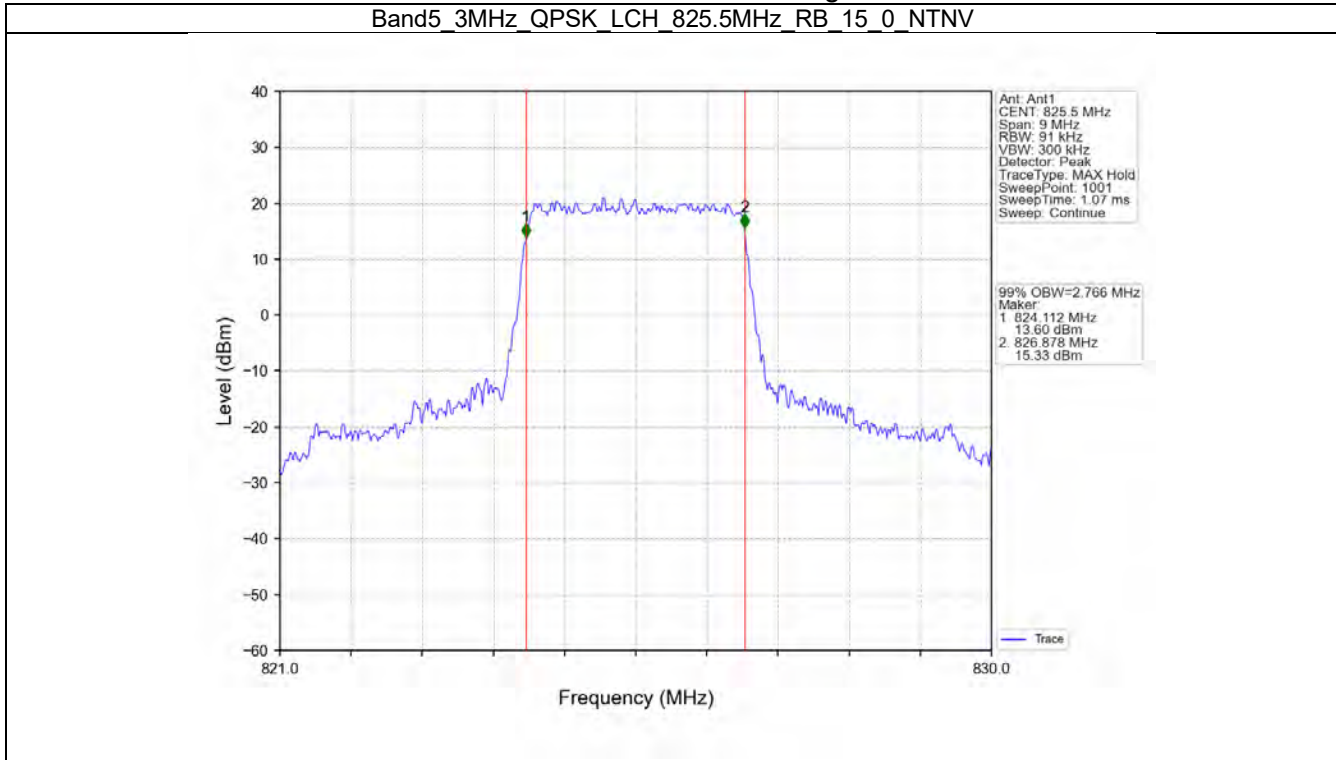
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Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



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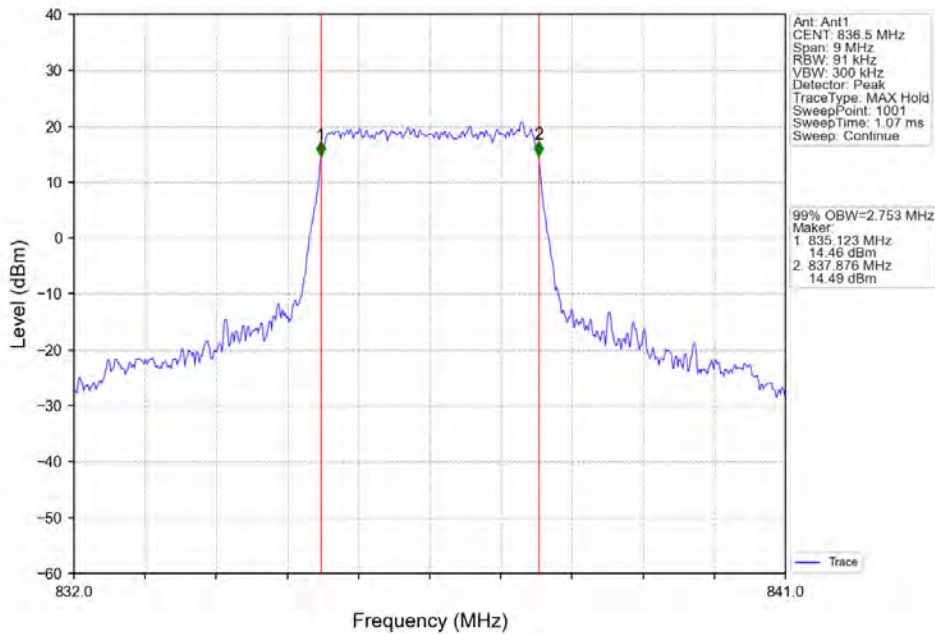
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Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



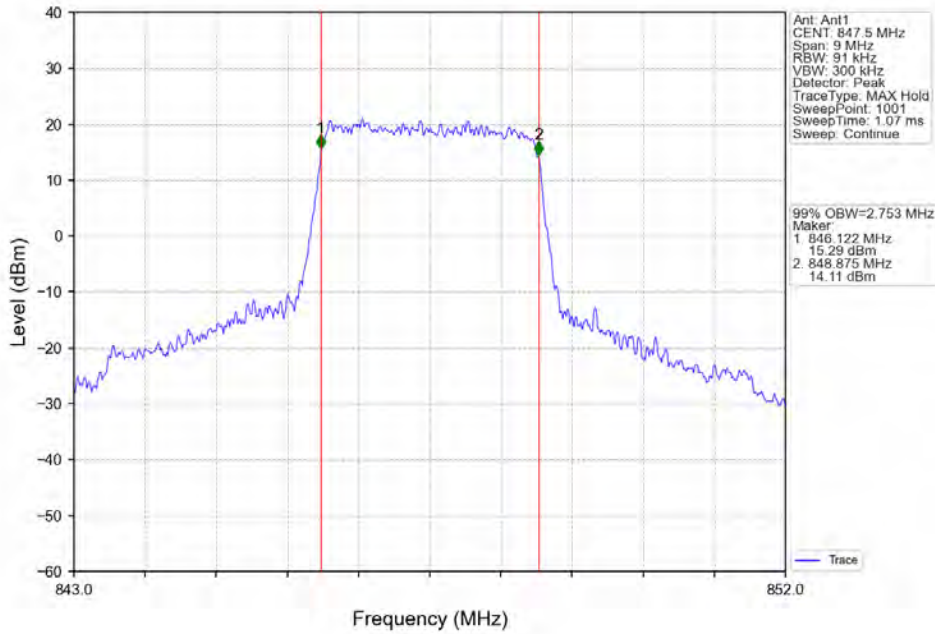
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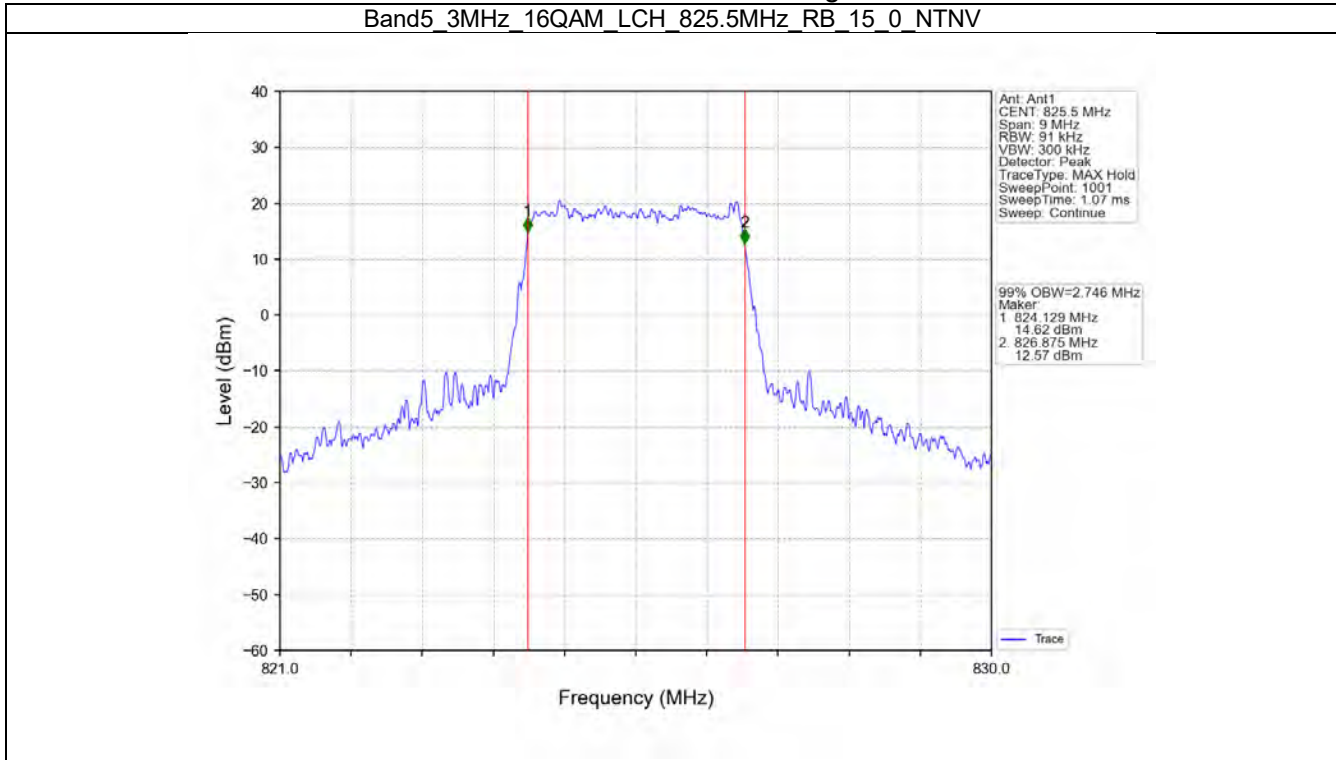
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Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



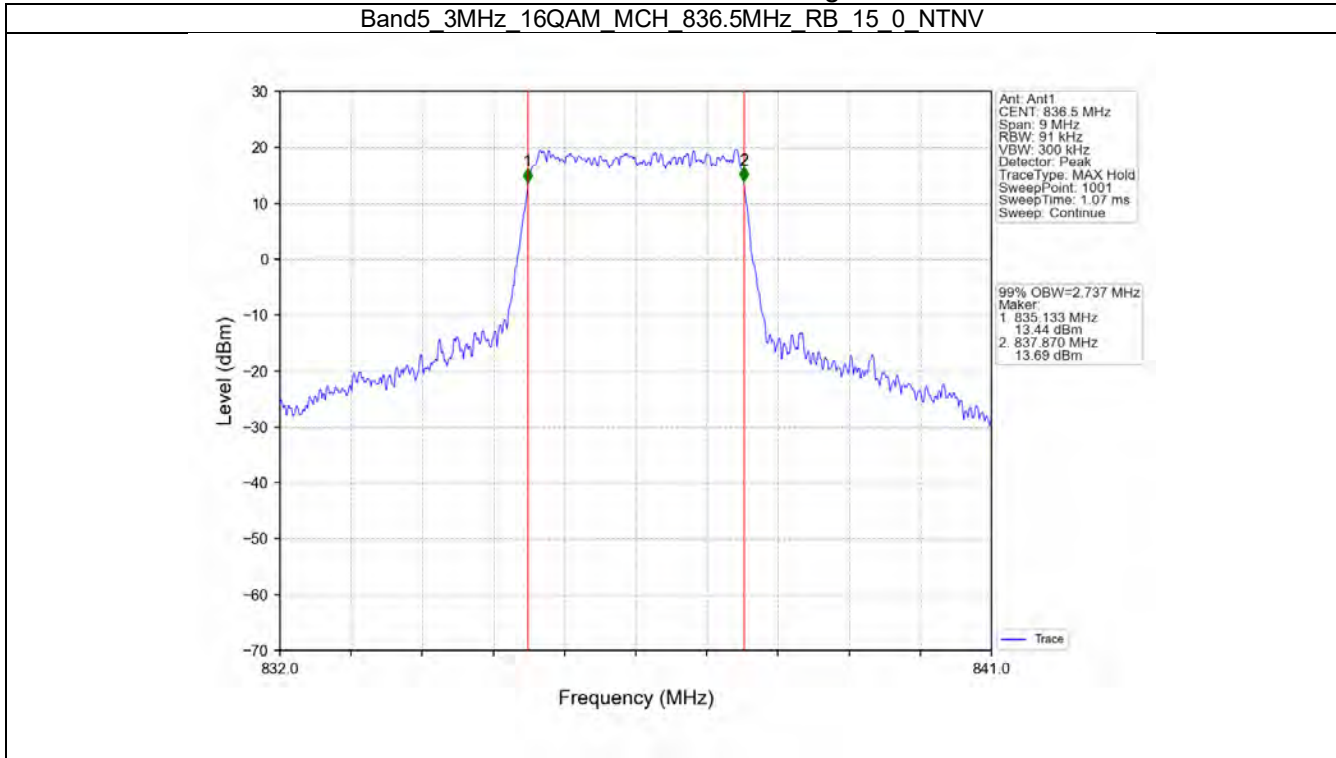
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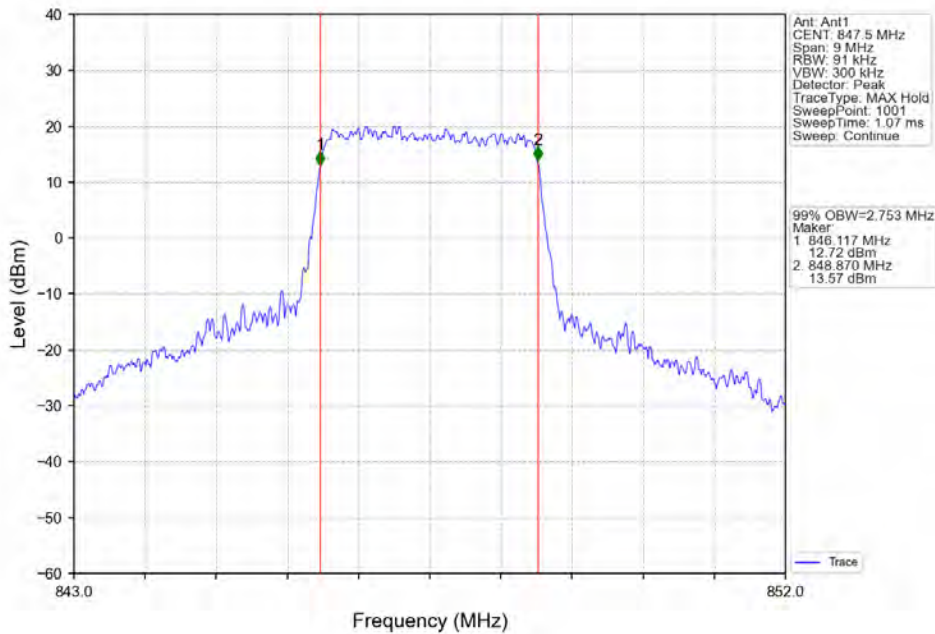
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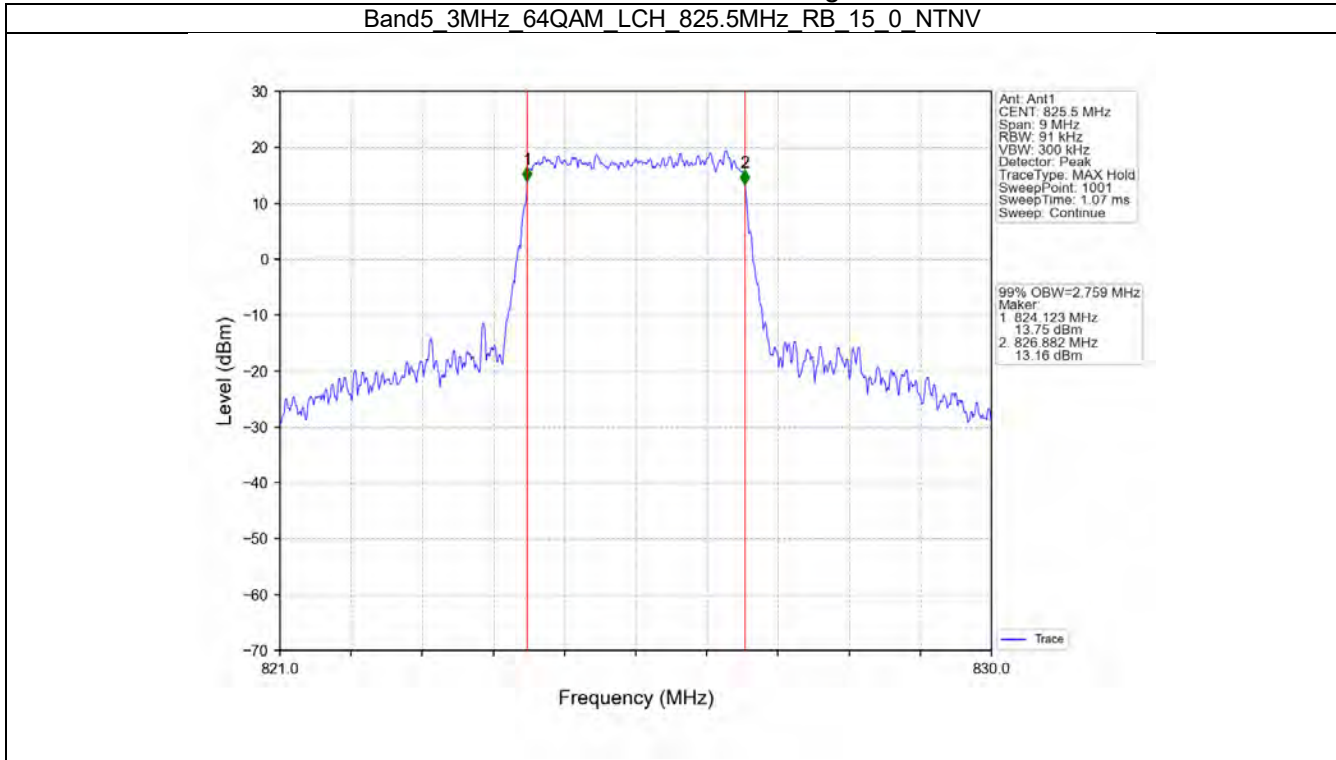
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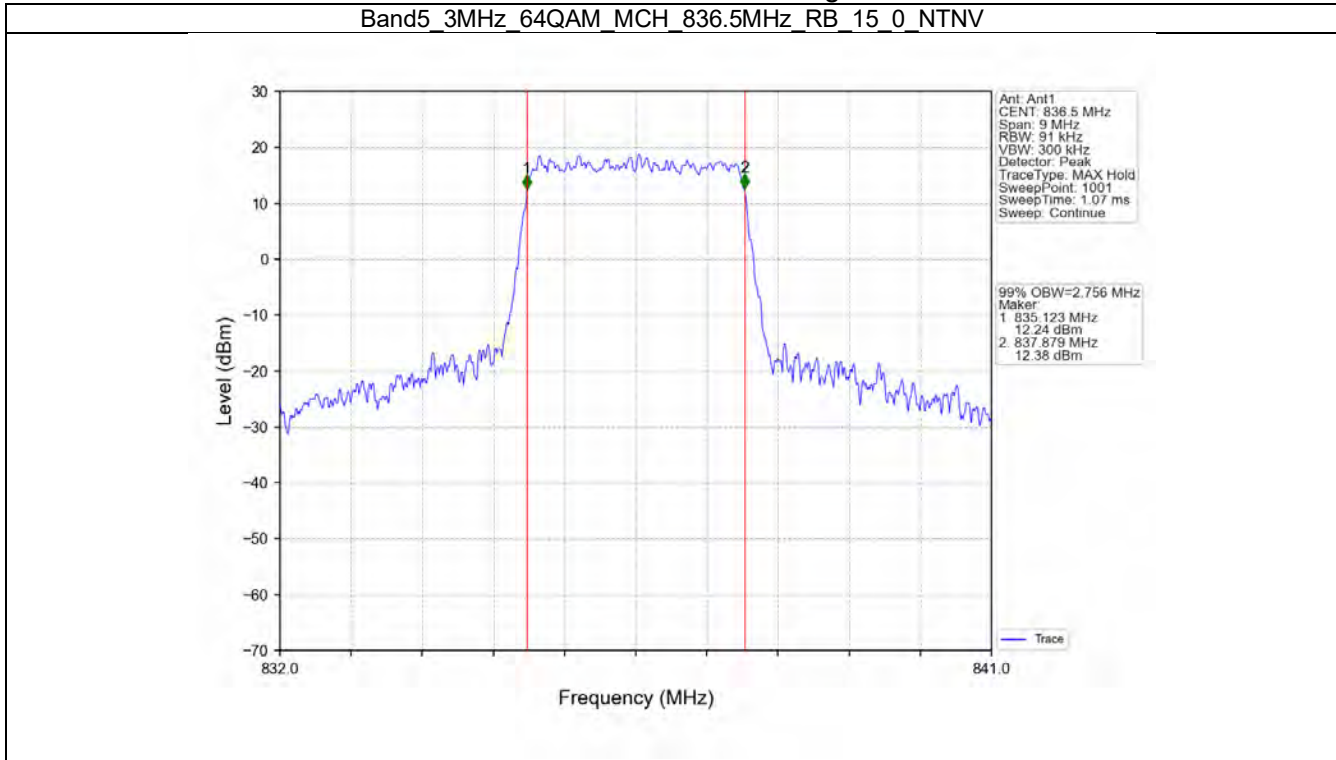
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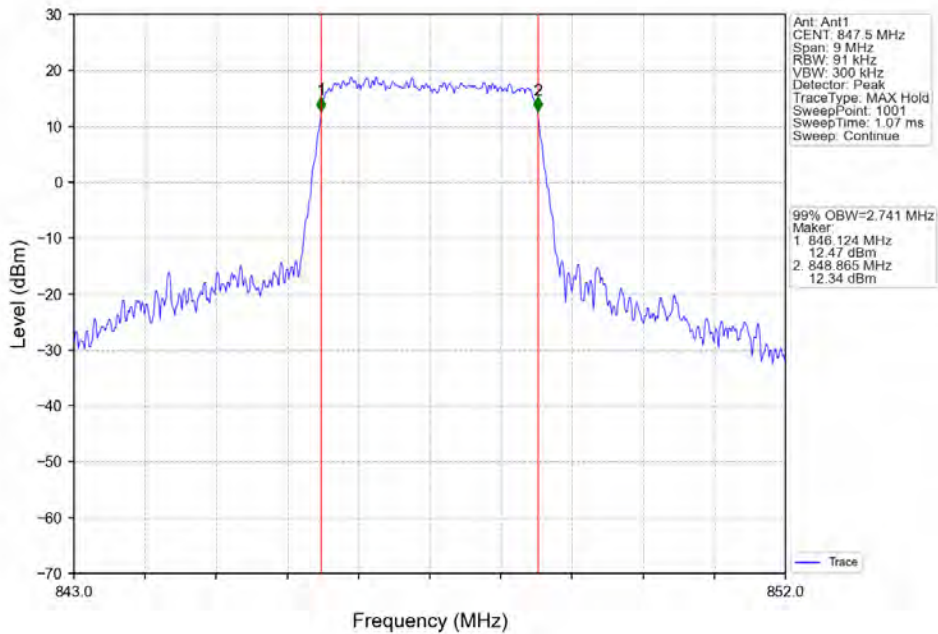
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Band5_3MHz_64QAM_HCH_847.5MHz_RB_15_0_NTNV



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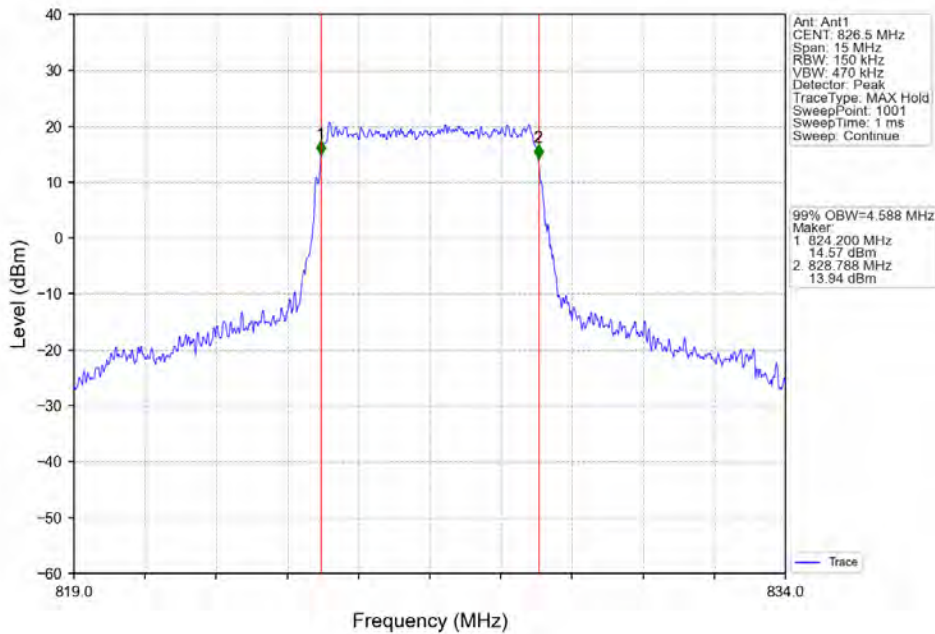
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Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



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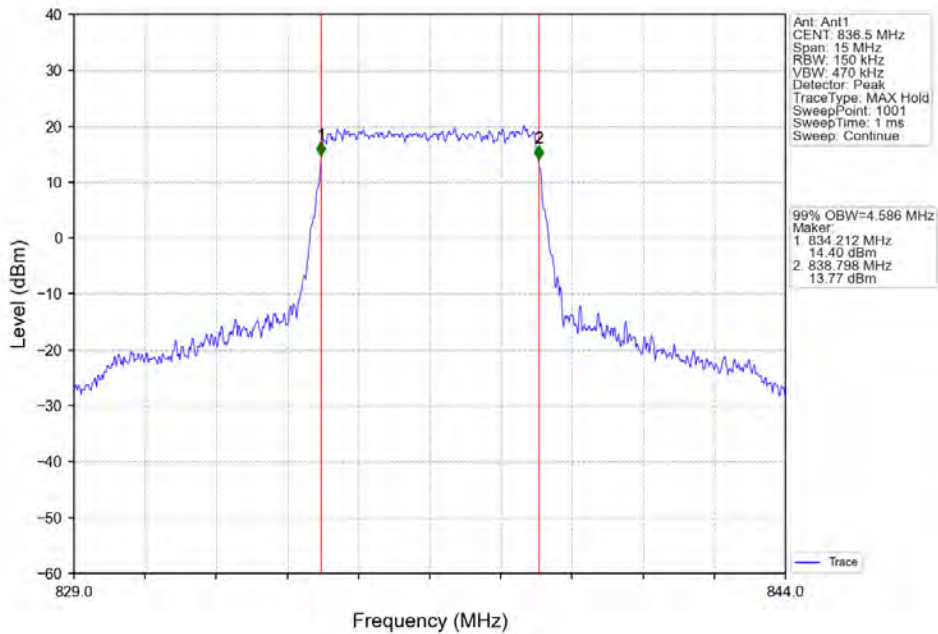
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Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



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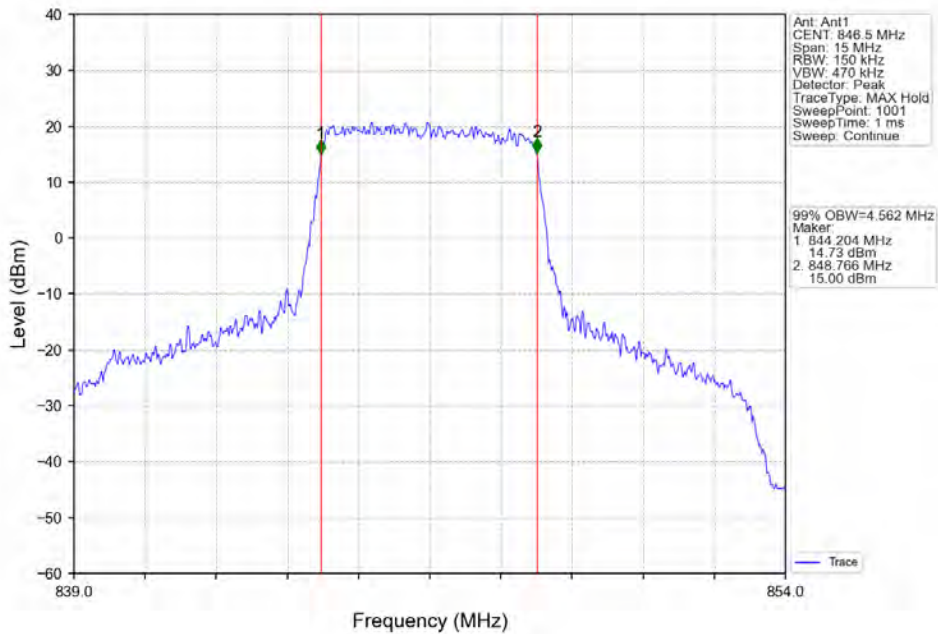
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Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



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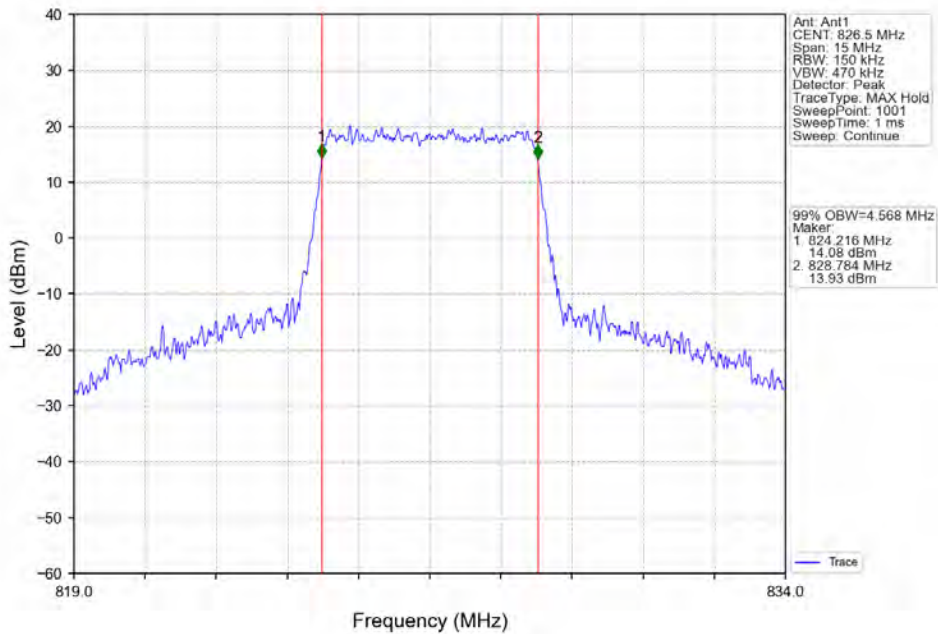
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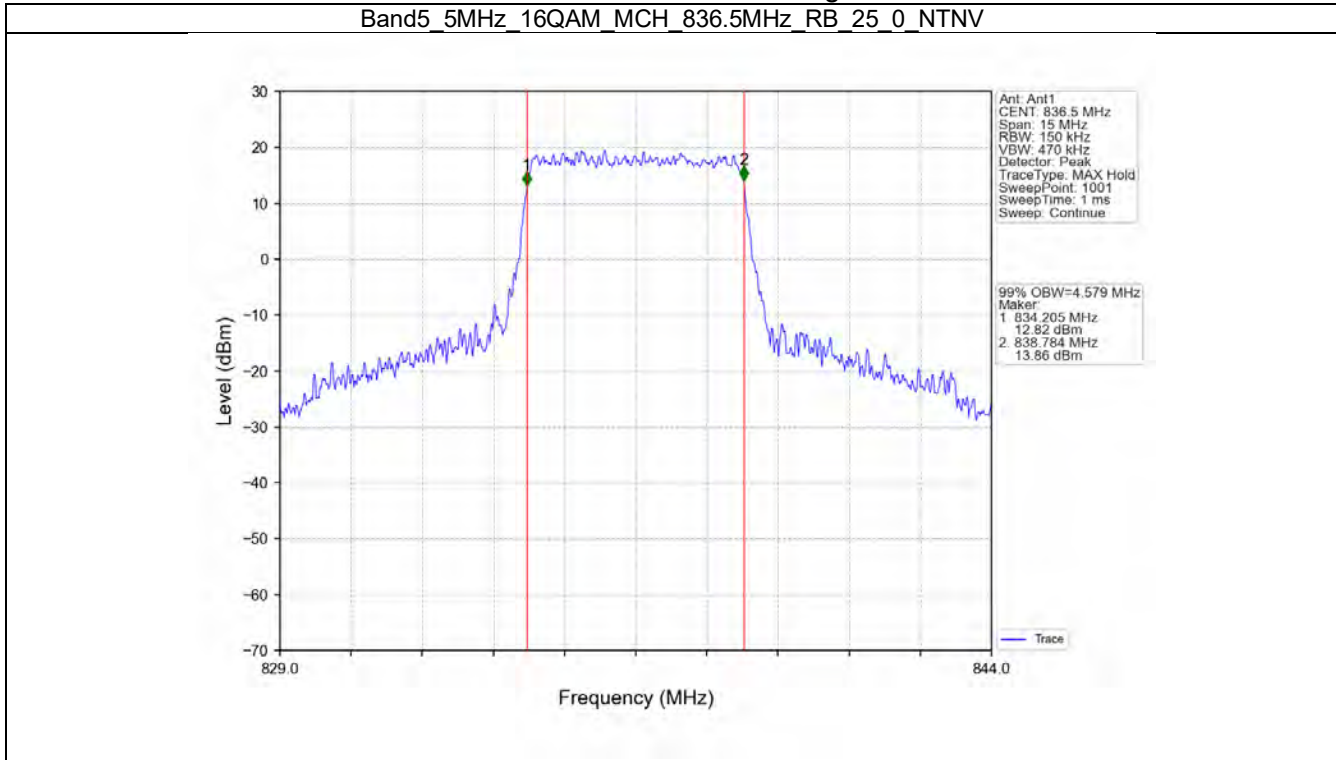
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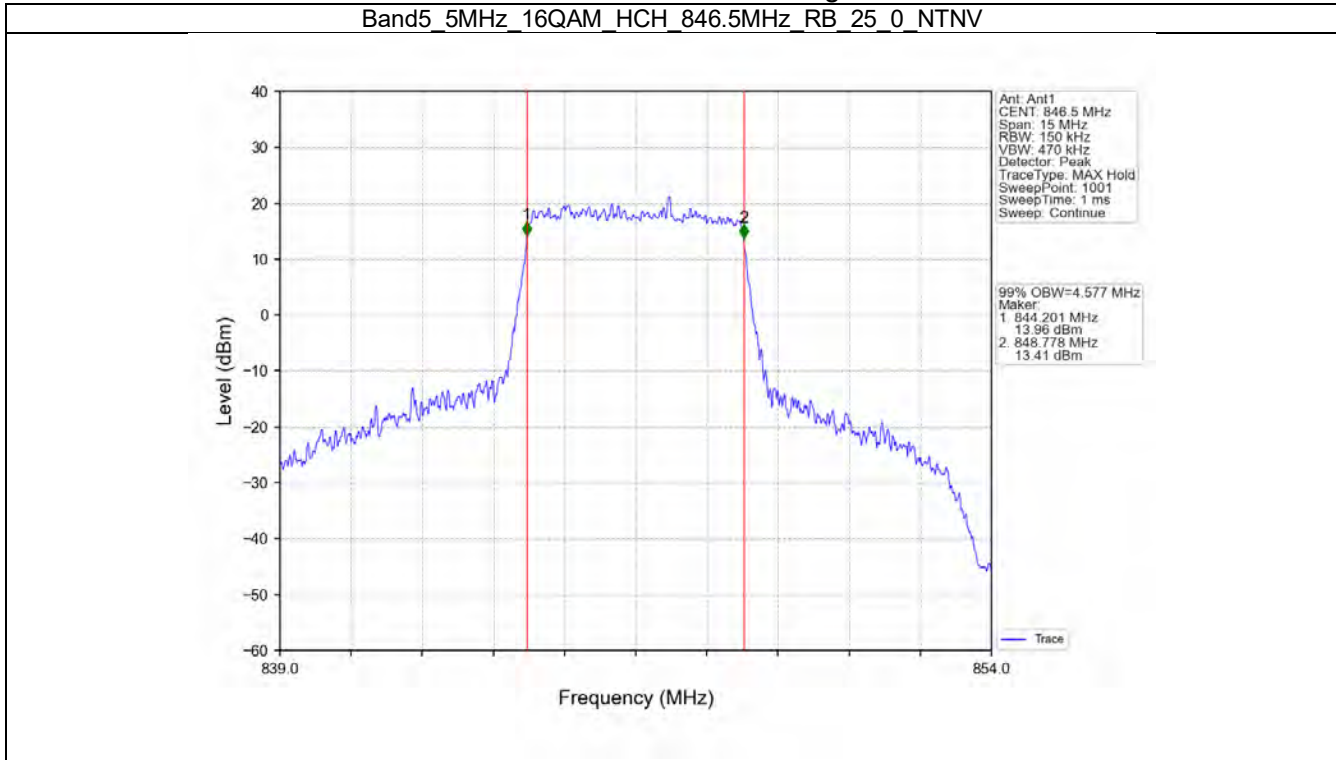
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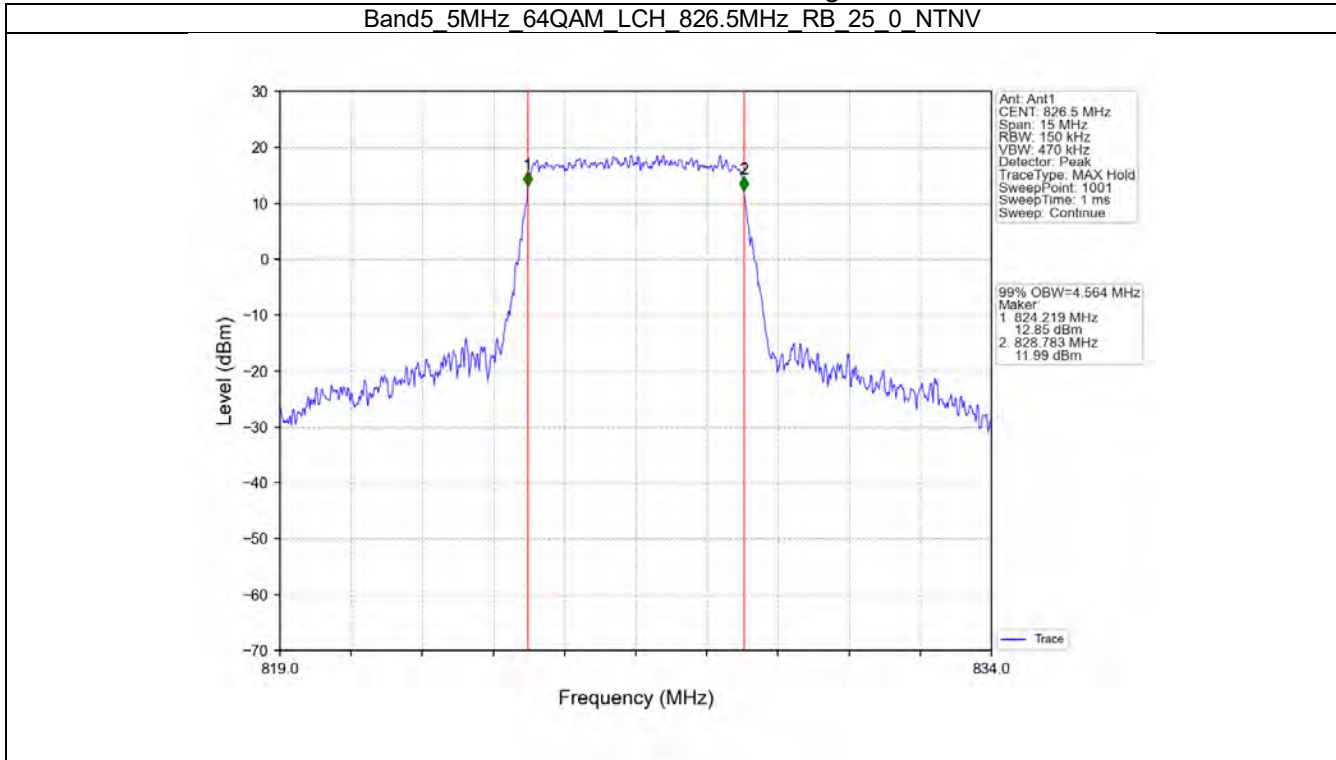
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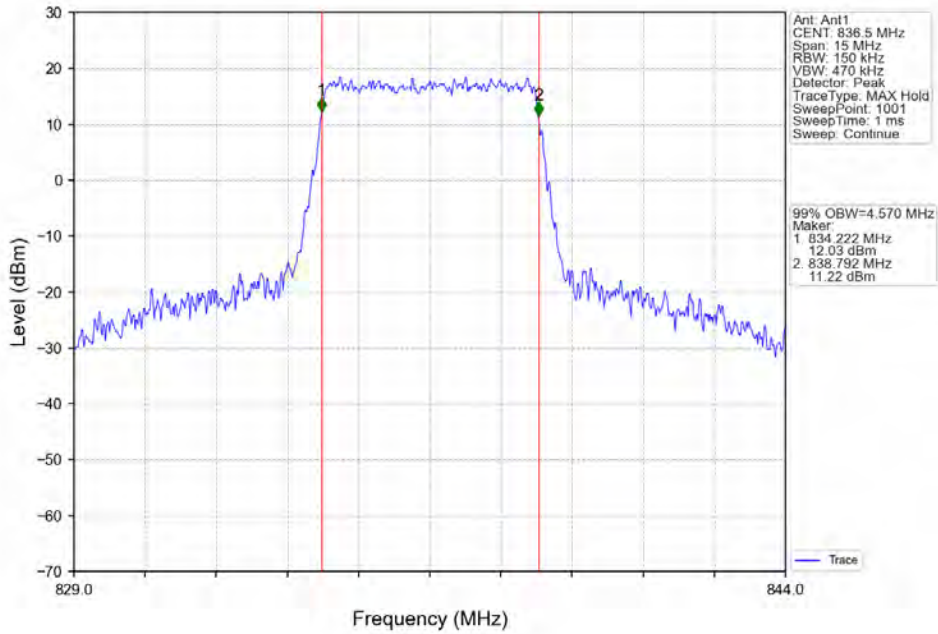
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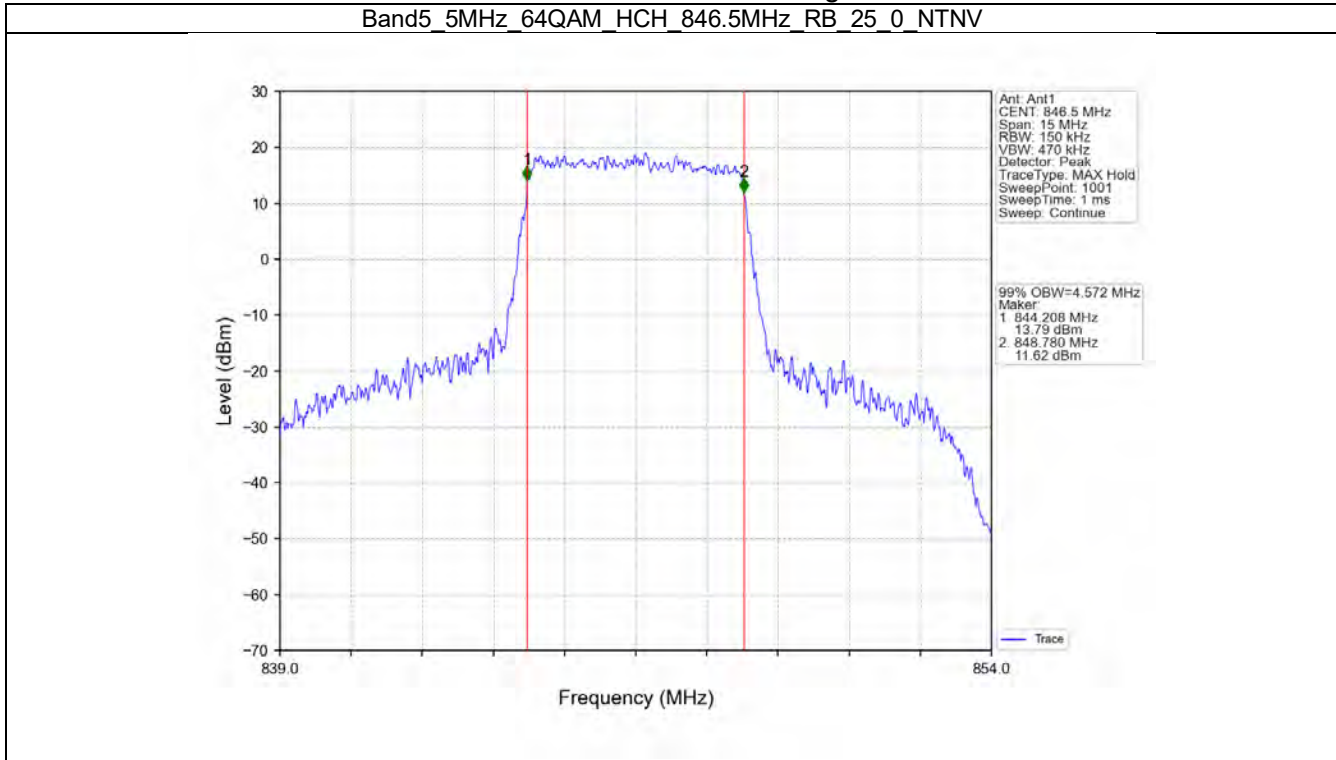
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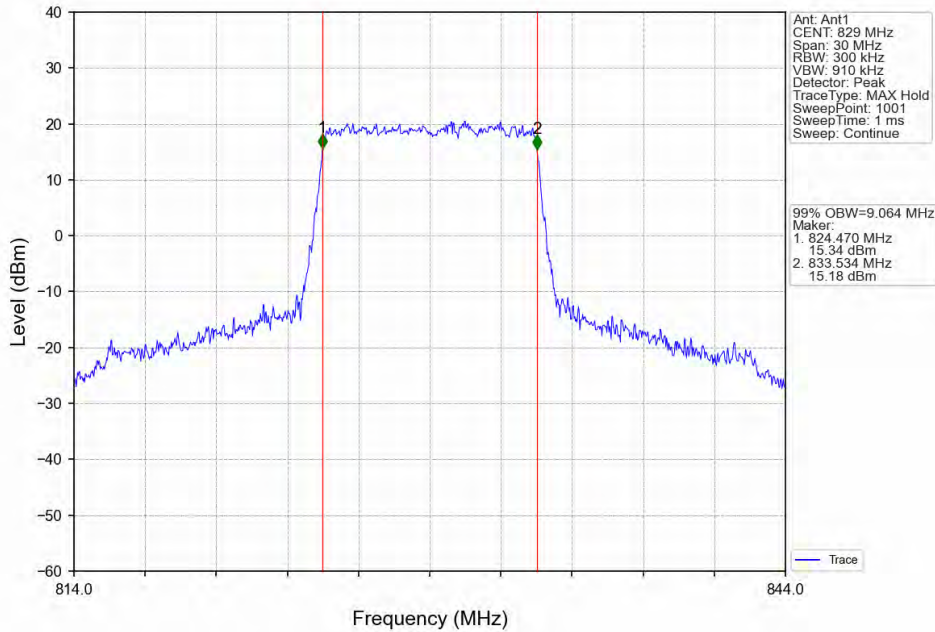
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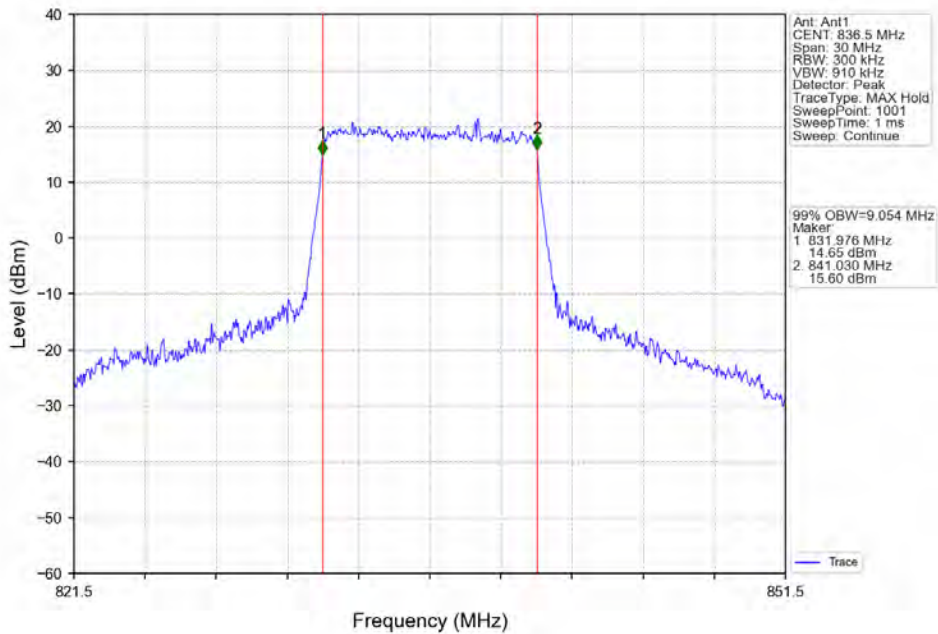
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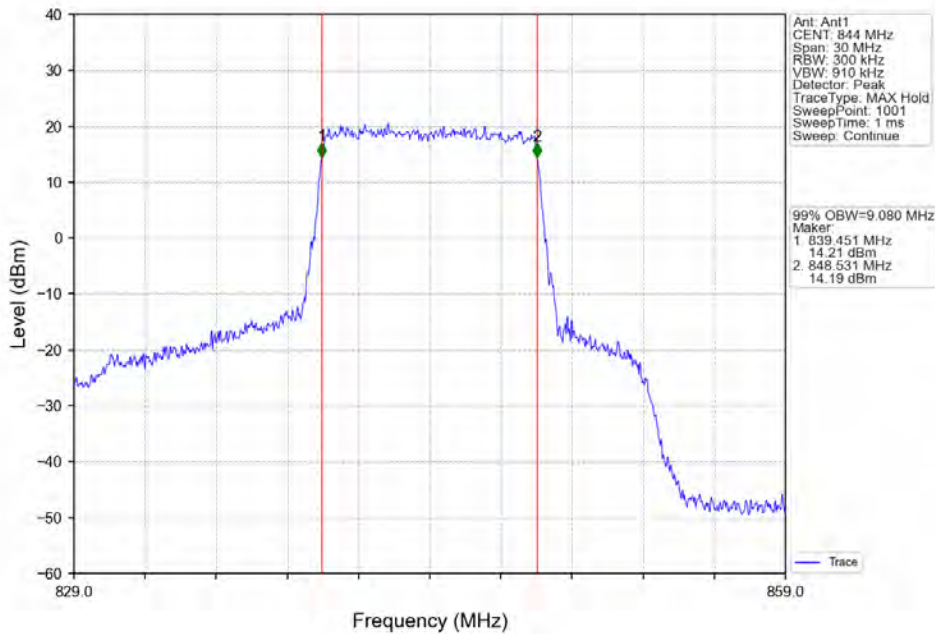
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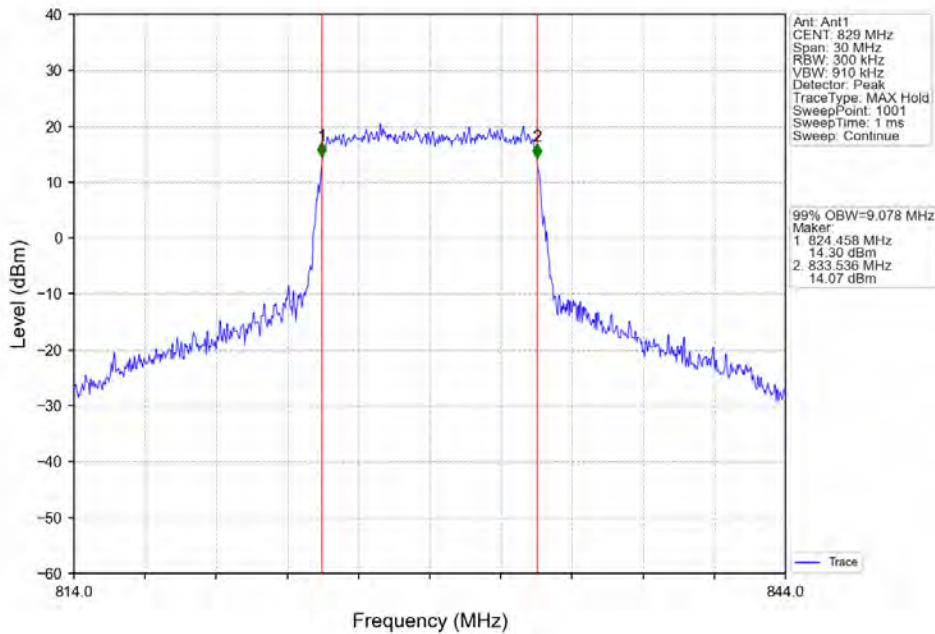
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Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



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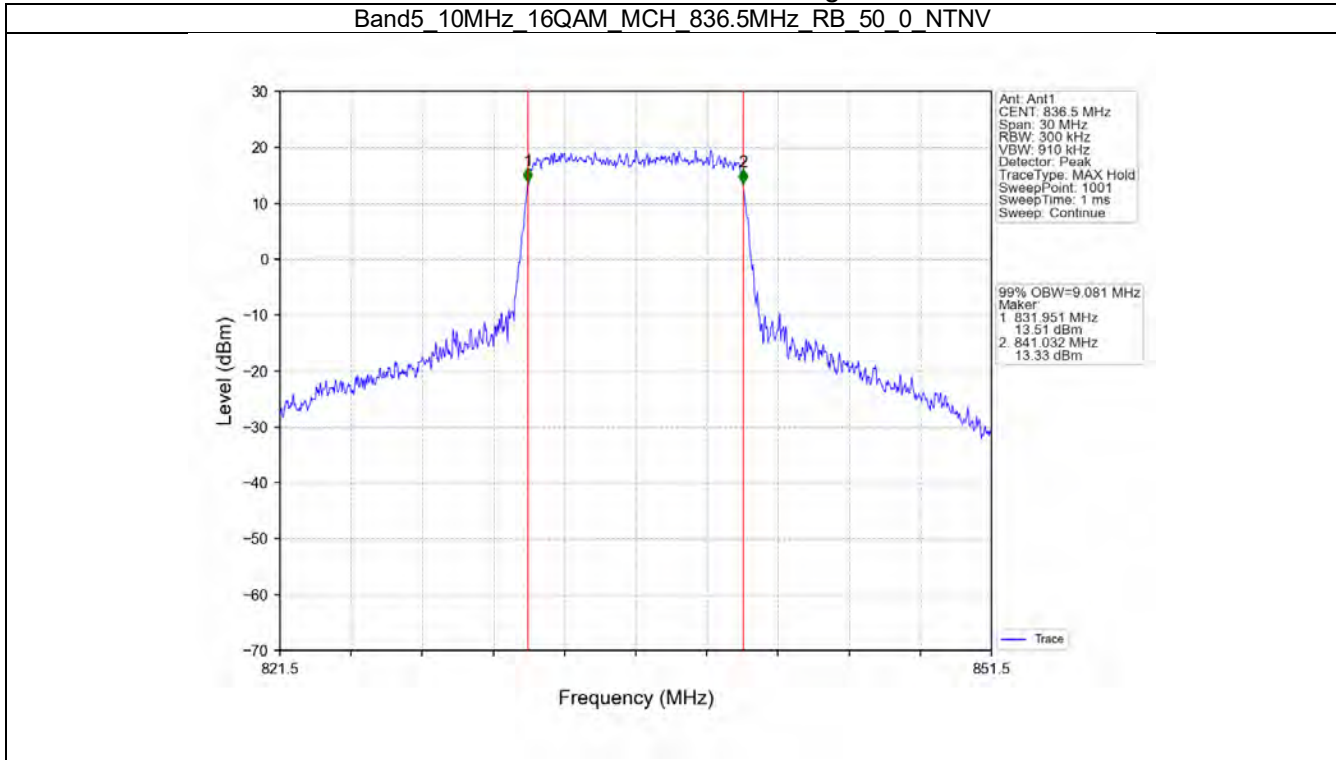
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Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV



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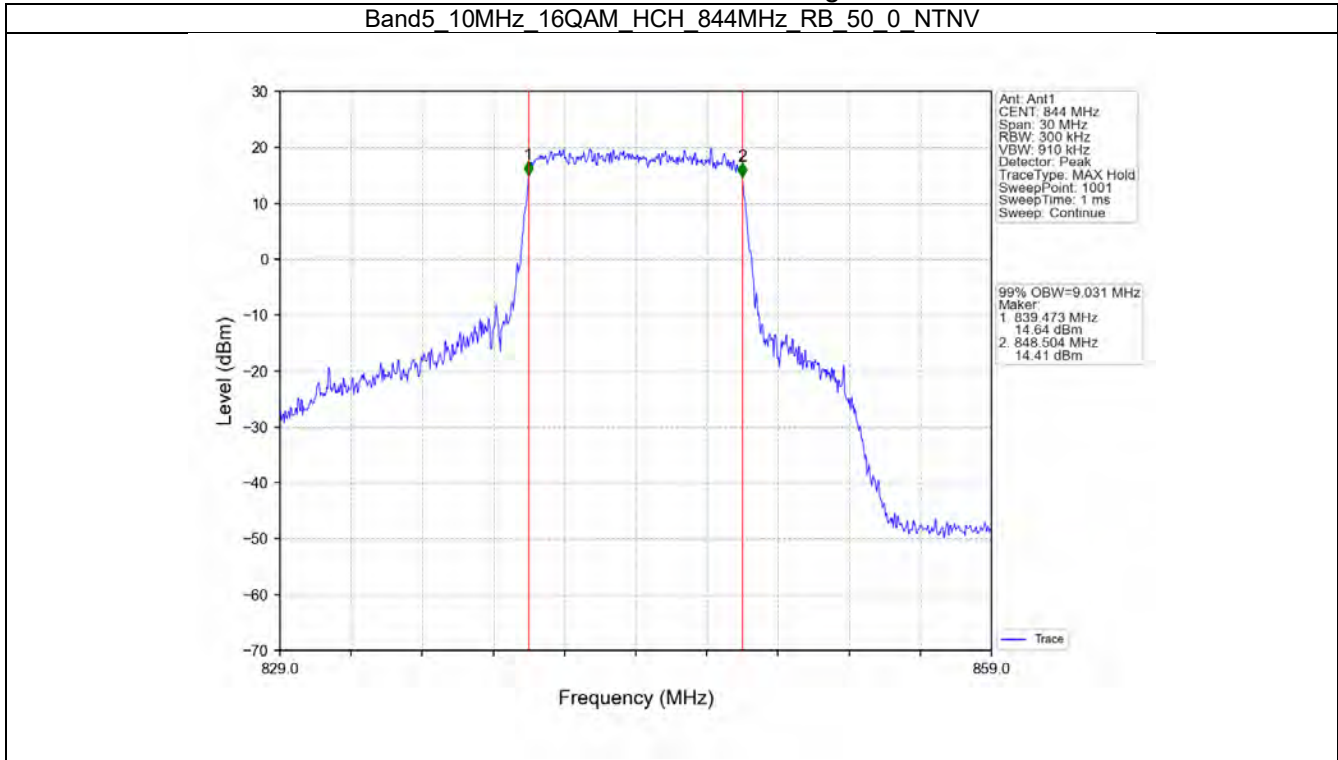
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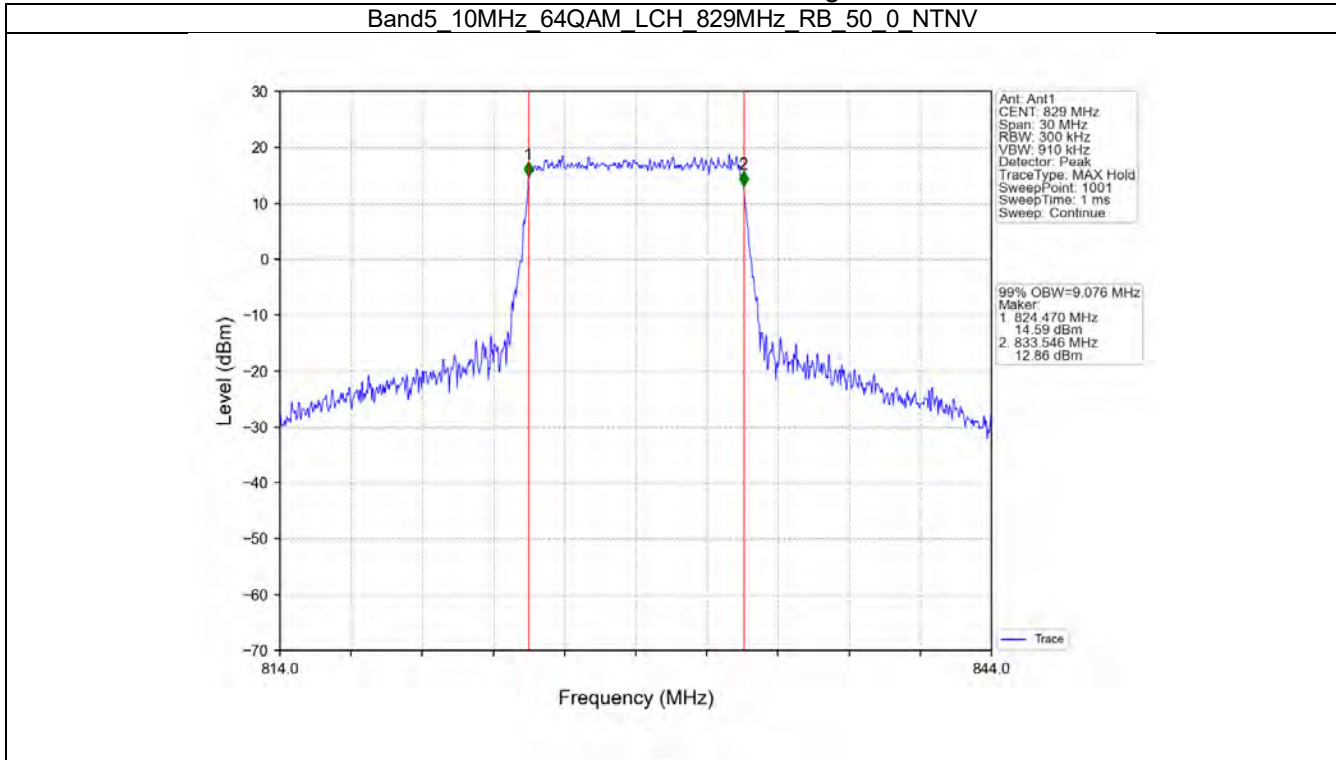
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Band5_10MHz_64QAM_LCH_829MHz_RB_50_0_NTNV



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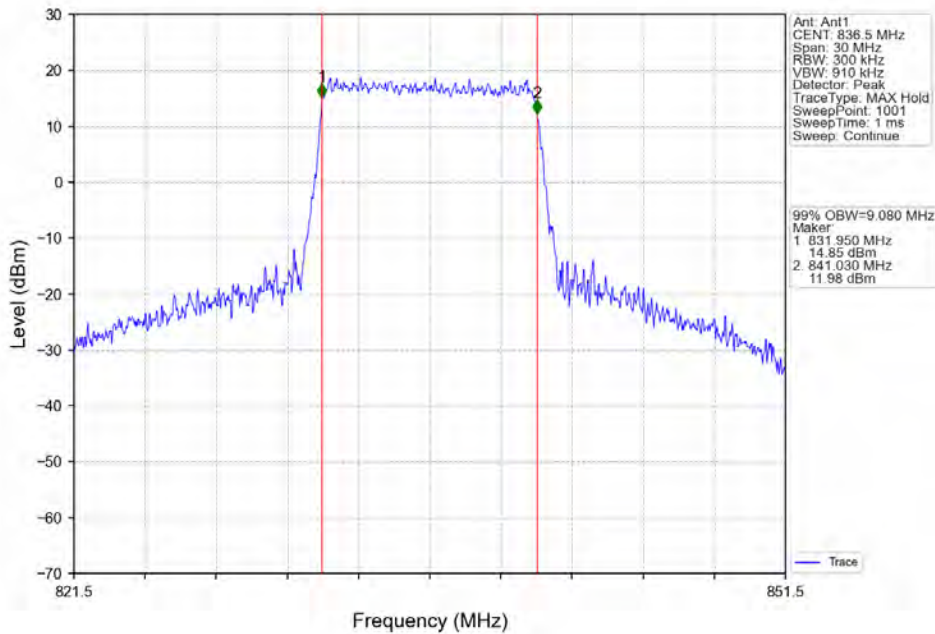
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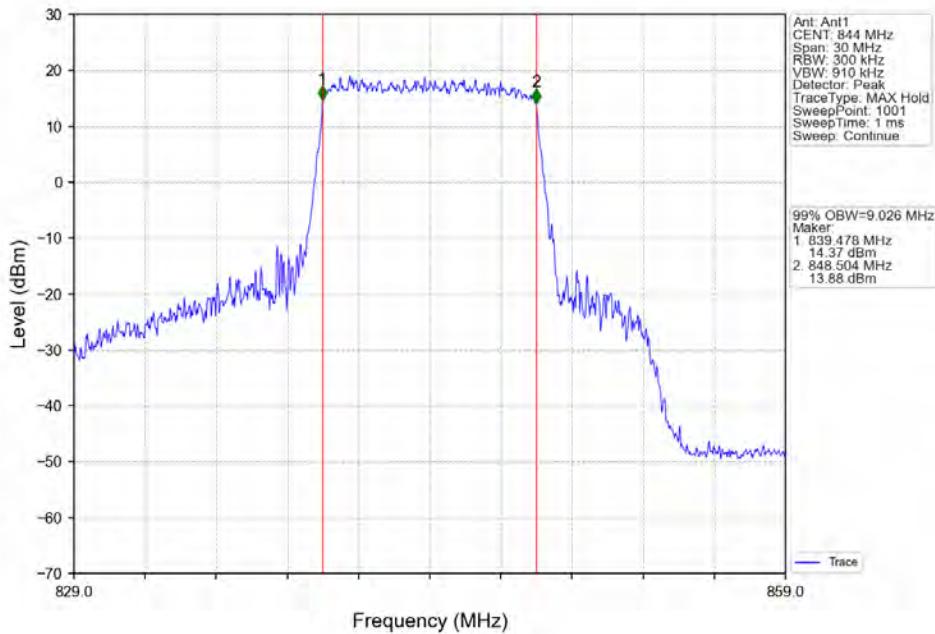
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3.2 Band5_XDB

3.2.1 Test Result

Band: 5 / NTN							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.405	/	Pass
		836.5	6	0	1.388	/	Pass
		848.3	6	0	1.401	/	Pass
	16QAM	824.7	6	0	1.410	/	Pass
		836.5	6	0	1.411	/	Pass
		848.3	6	0	1.432	/	Pass
	64QAM	824.7	6	0	1.405	/	Pass
		836.5	6	0	1.407	/	Pass
		848.3	6	0	1.389	/	Pass
3	QPSK	825.5	15	0	3.138	/	Pass
		836.5	15	0	3.129	/	Pass
		847.5	15	0	3.118	/	Pass
	16QAM	825.5	15	0	3.138	/	Pass
		836.5	15	0	3.132	/	Pass
		847.5	15	0	3.160	/	Pass
	64QAM	825.5	15	0	3.136	/	Pass
		836.5	15	0	3.134	/	Pass
		847.5	15	0	3.139	/	Pass
5	QPSK	826.5	25	0	5.244	/	Pass
		836.5	25	0	5.225	/	Pass
		846.5	25	0	5.242	/	Pass
	16QAM	826.5	25	0	5.198	/	Pass
		836.5	25	0	5.325	/	Pass
		846.5	25	0	5.183	/	Pass
	64QAM	826.5	25	0	5.286	/	Pass
		836.5	25	0	5.264	/	Pass
		846.5	25	0	5.185	/	Pass
10	QPSK	829	50	0	10.233	/	Pass
		836.5	50	0	10.172	/	Pass
		844	50	0	10.071	/	Pass
	16QAM	829	50	0	10.116	/	Pass
		836.5	50	0	10.209	/	Pass
		844	50	0	10.205	/	Pass
	64QAM	829	50	0	10.281	/	Pass
		836.5	50	0	10.109	/	Pass
		844	50	0	10.049	/	Pass

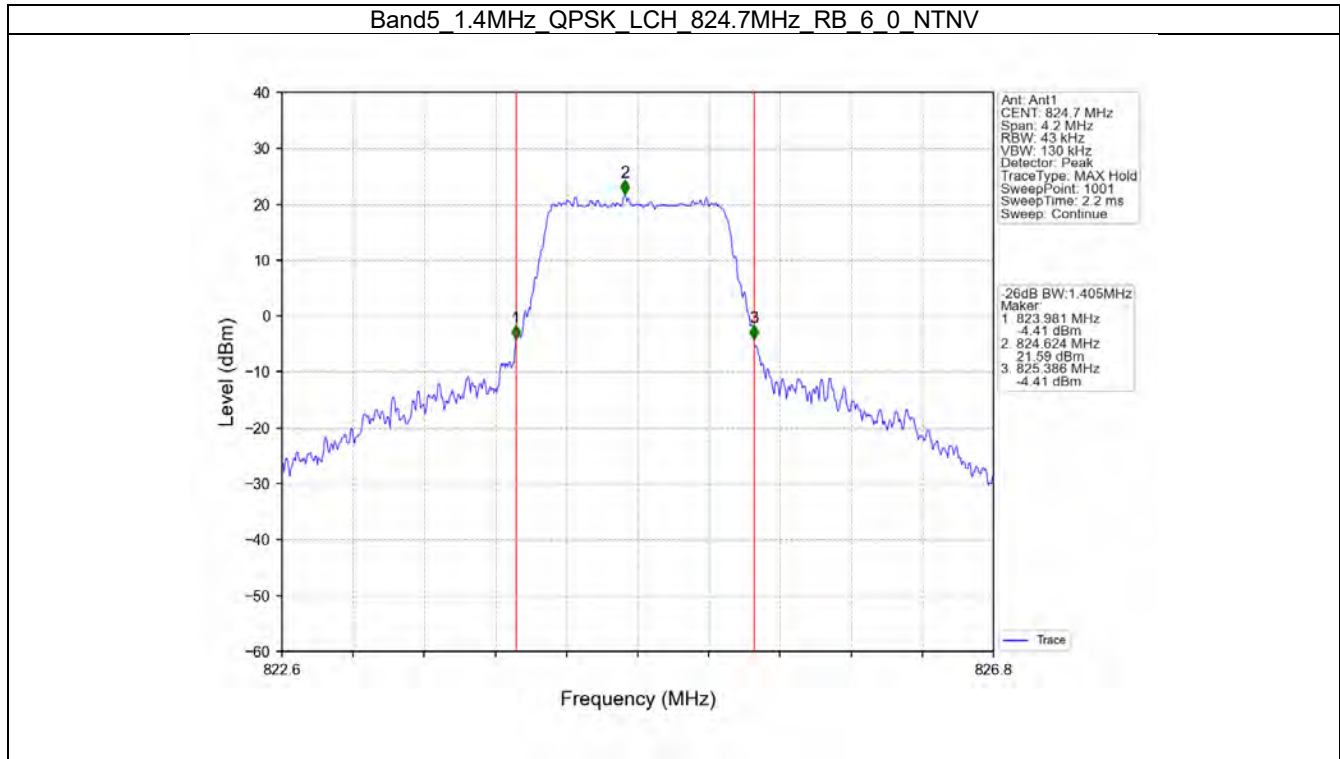


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3.2.2 Test Graph



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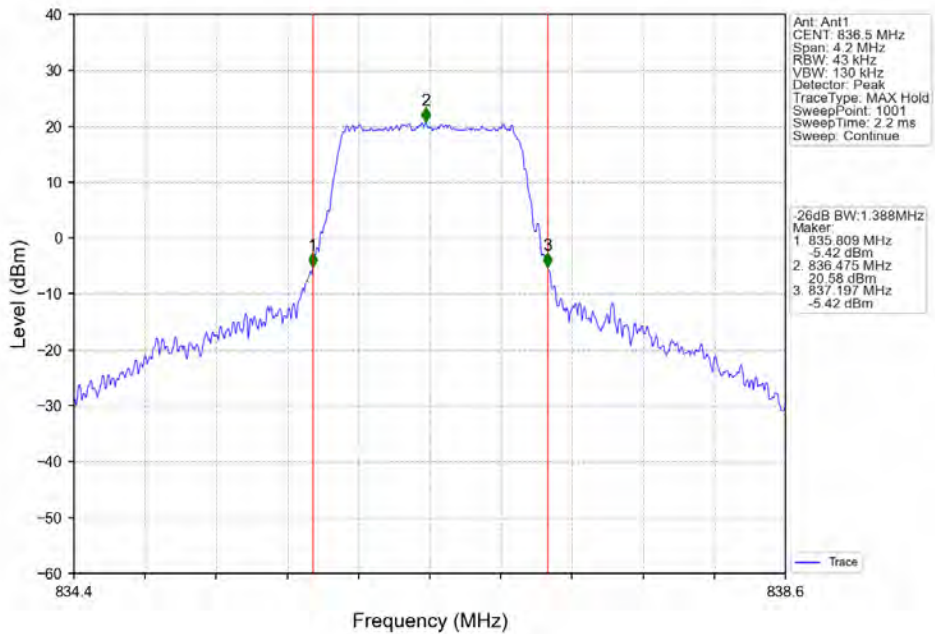
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Band5 1.4MHz QPSK MCH_836.5MHz RB_6_0_NTNV



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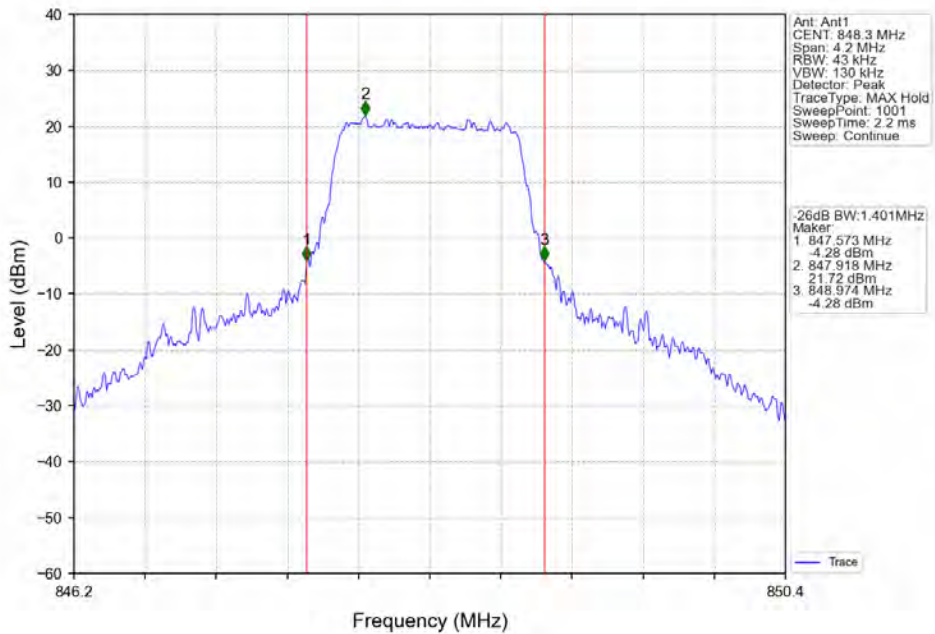
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Band5 1.4MHz QPSK HCH 848.3MHz RB 6_0 NTN



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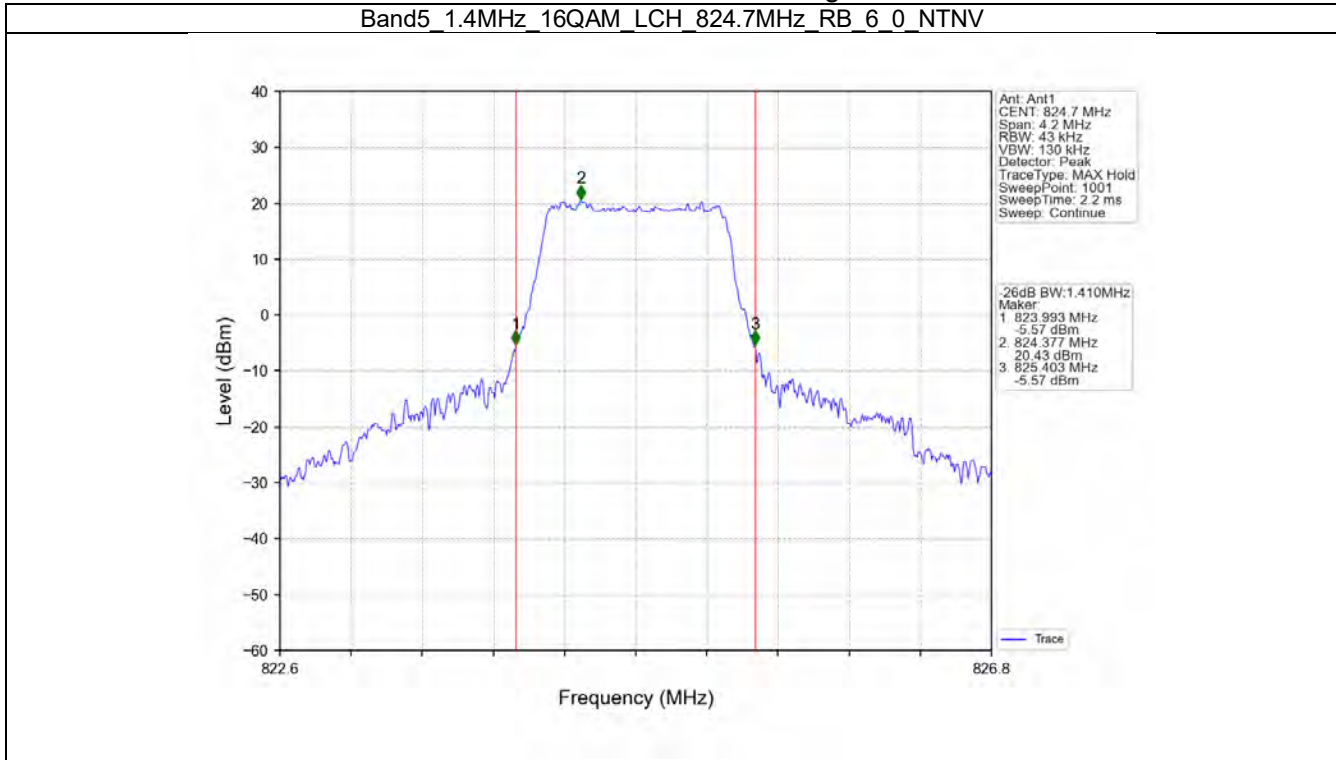
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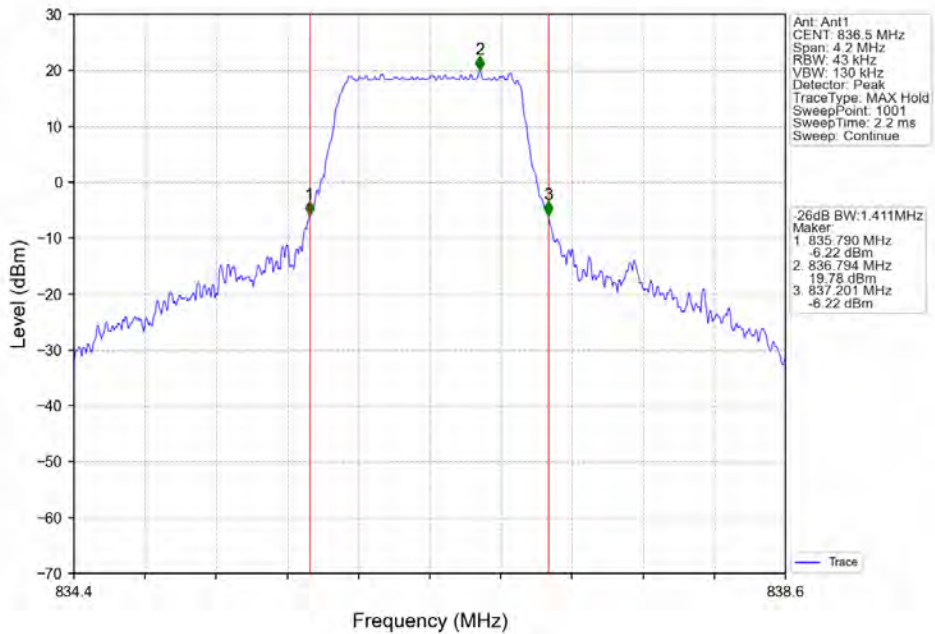
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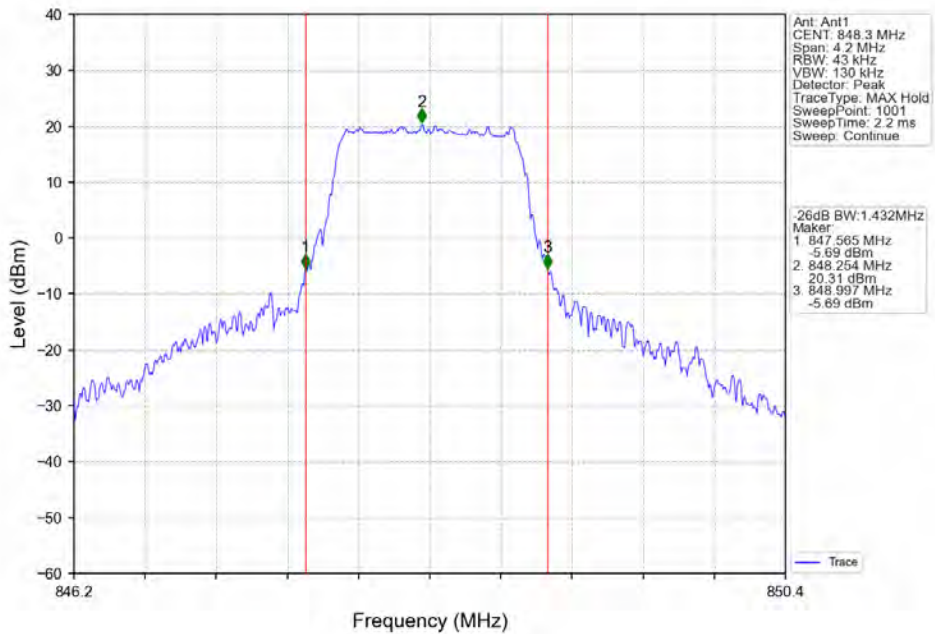
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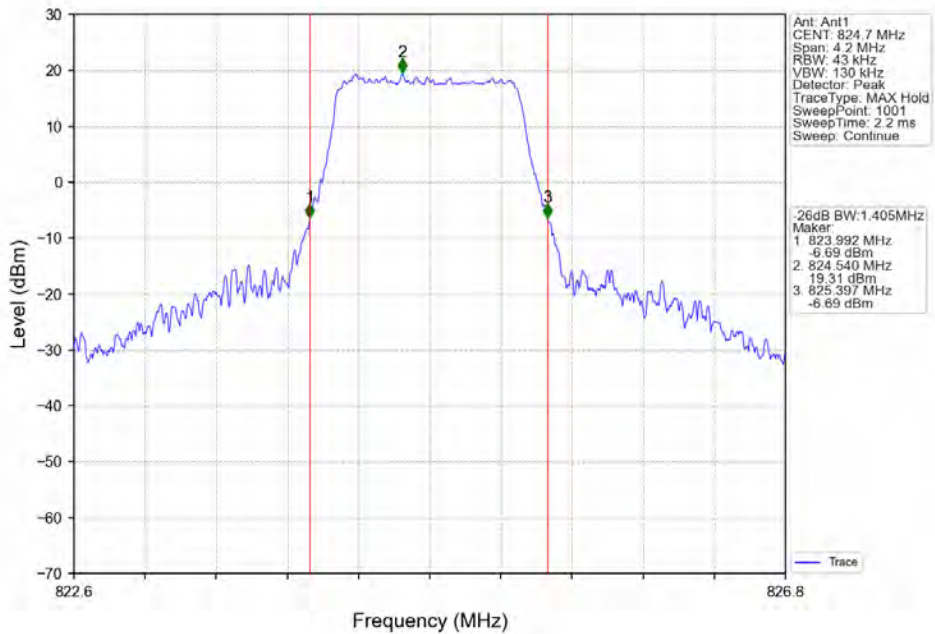
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Band5_1.4MHz_64QAM_LCH_824.7MHz_RB_6_0_NTNV



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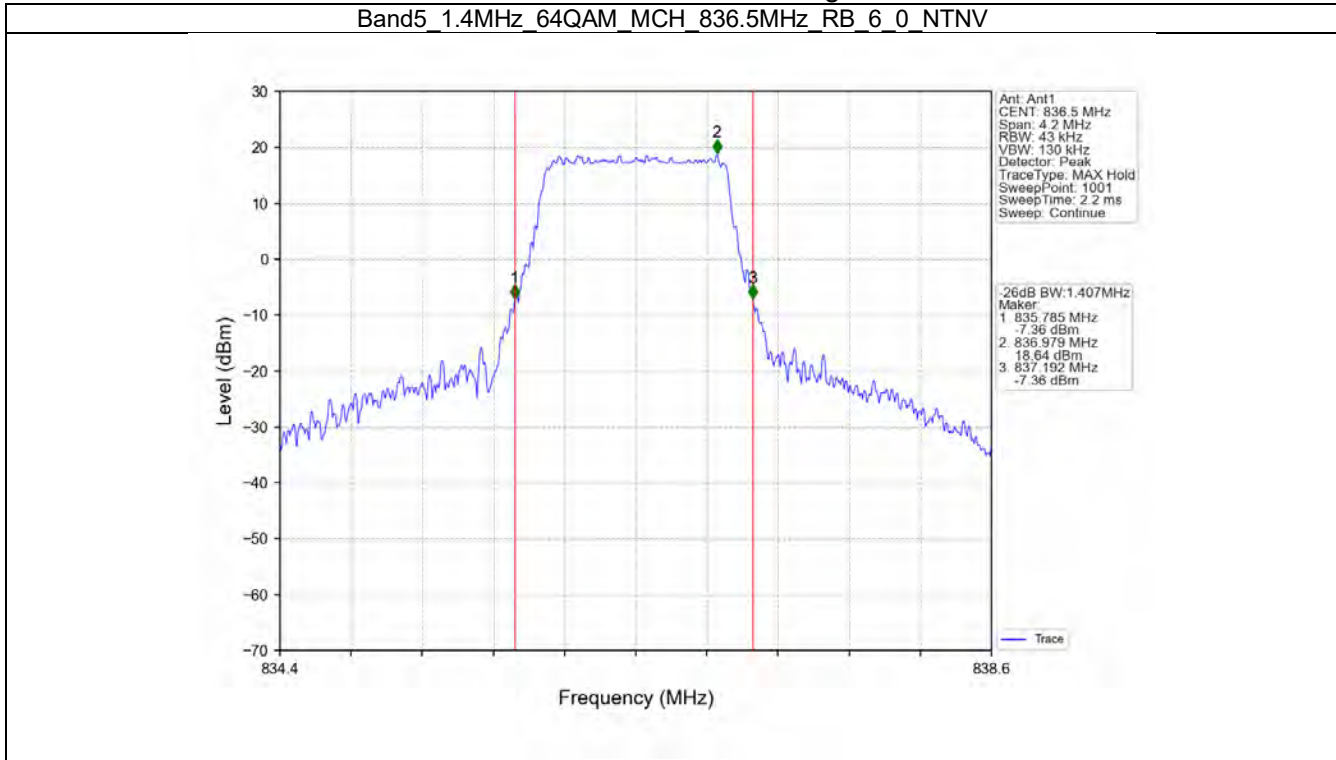
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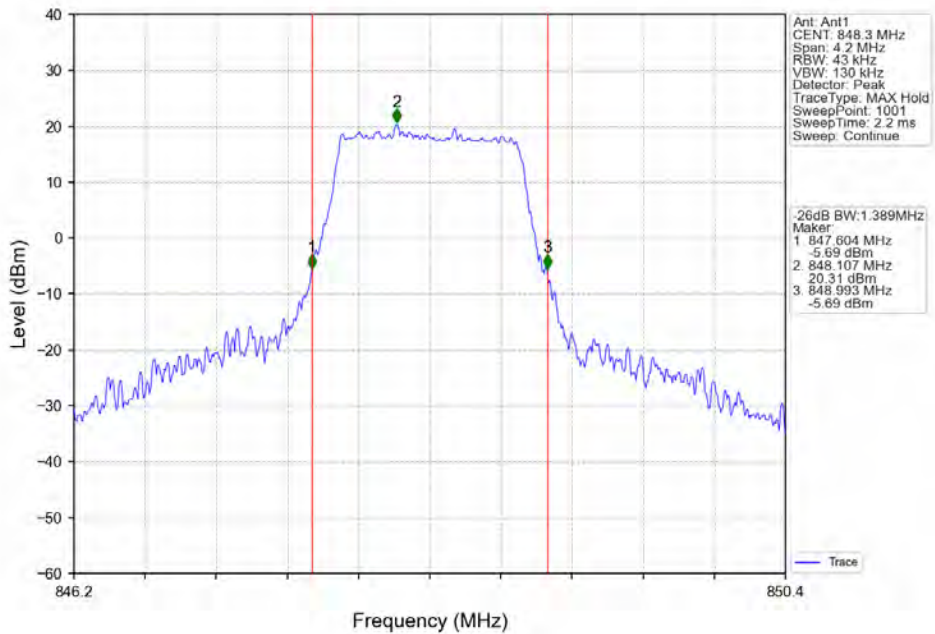
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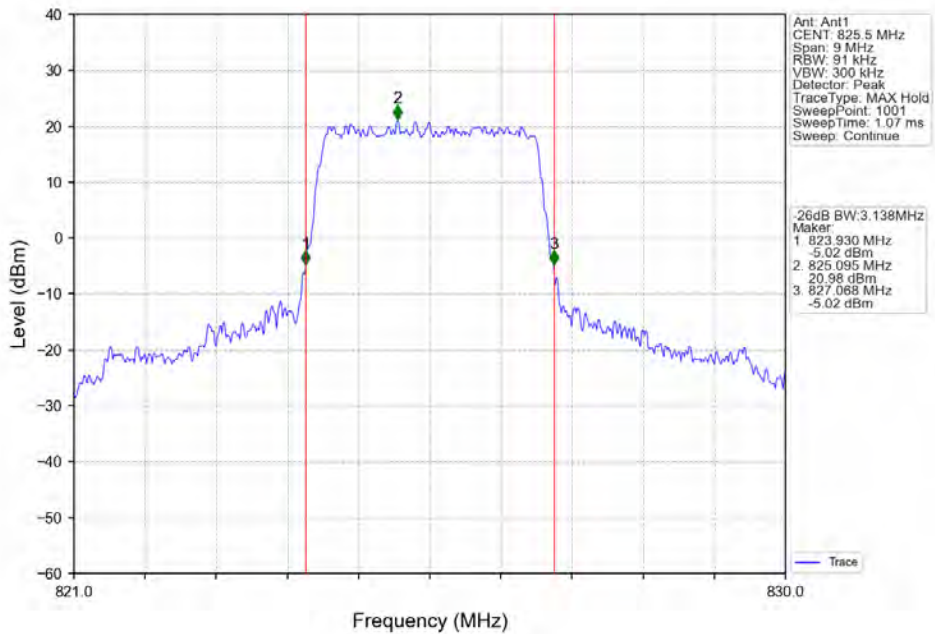
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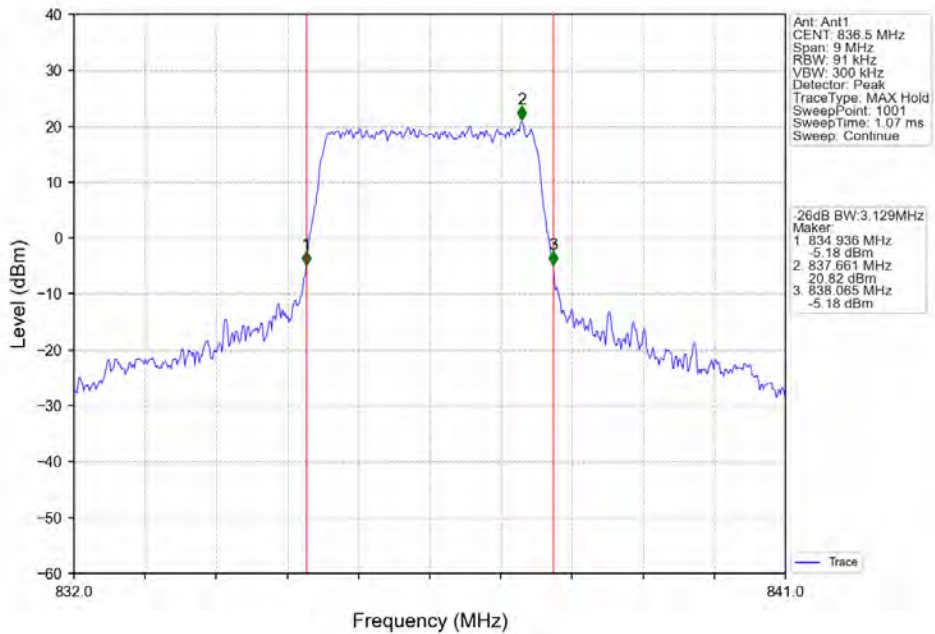
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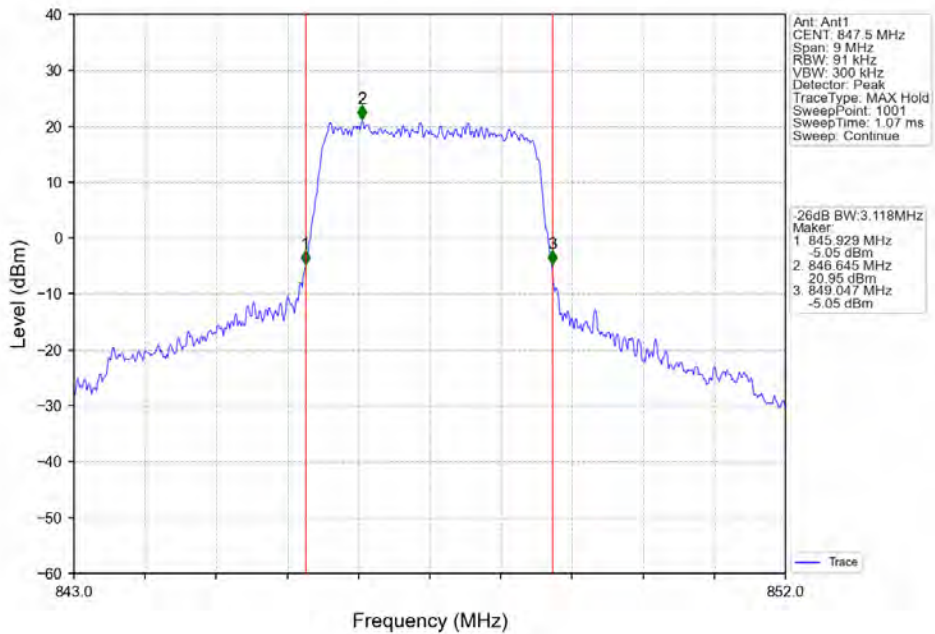
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Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



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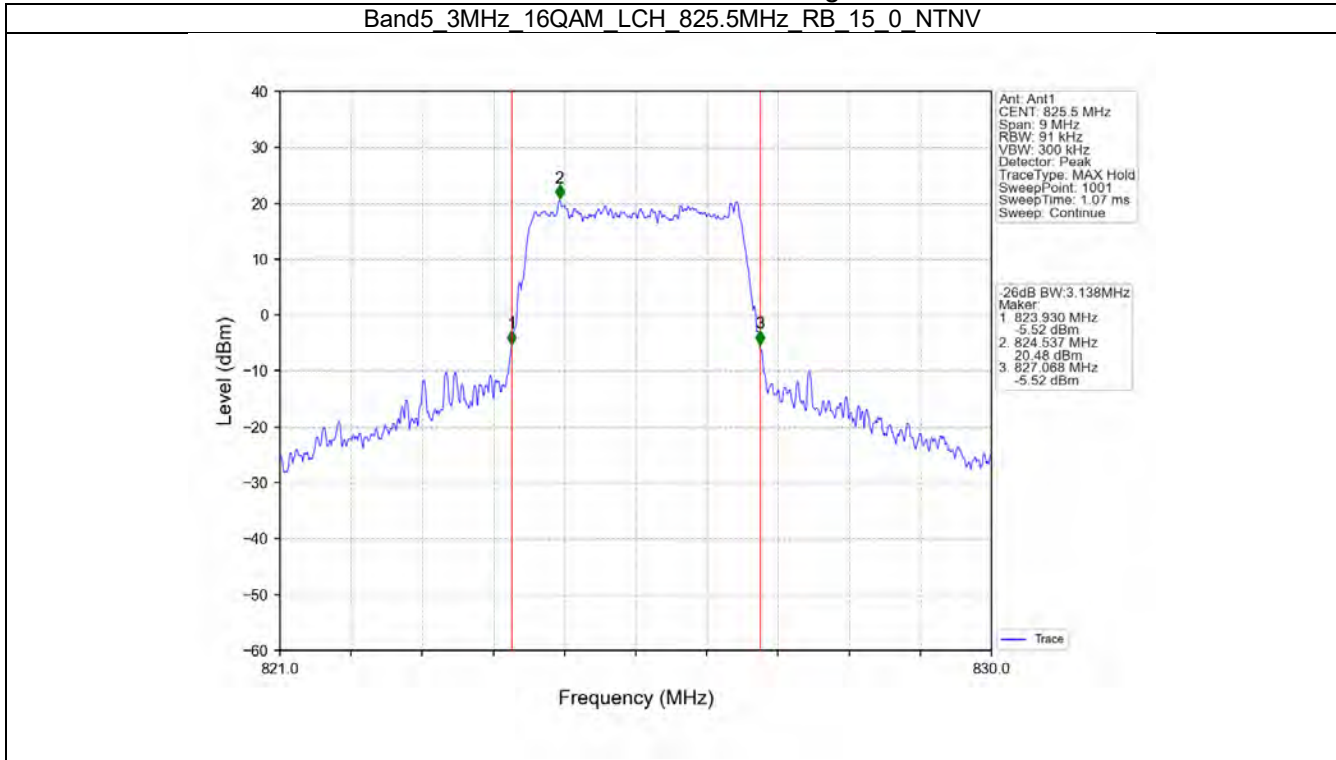
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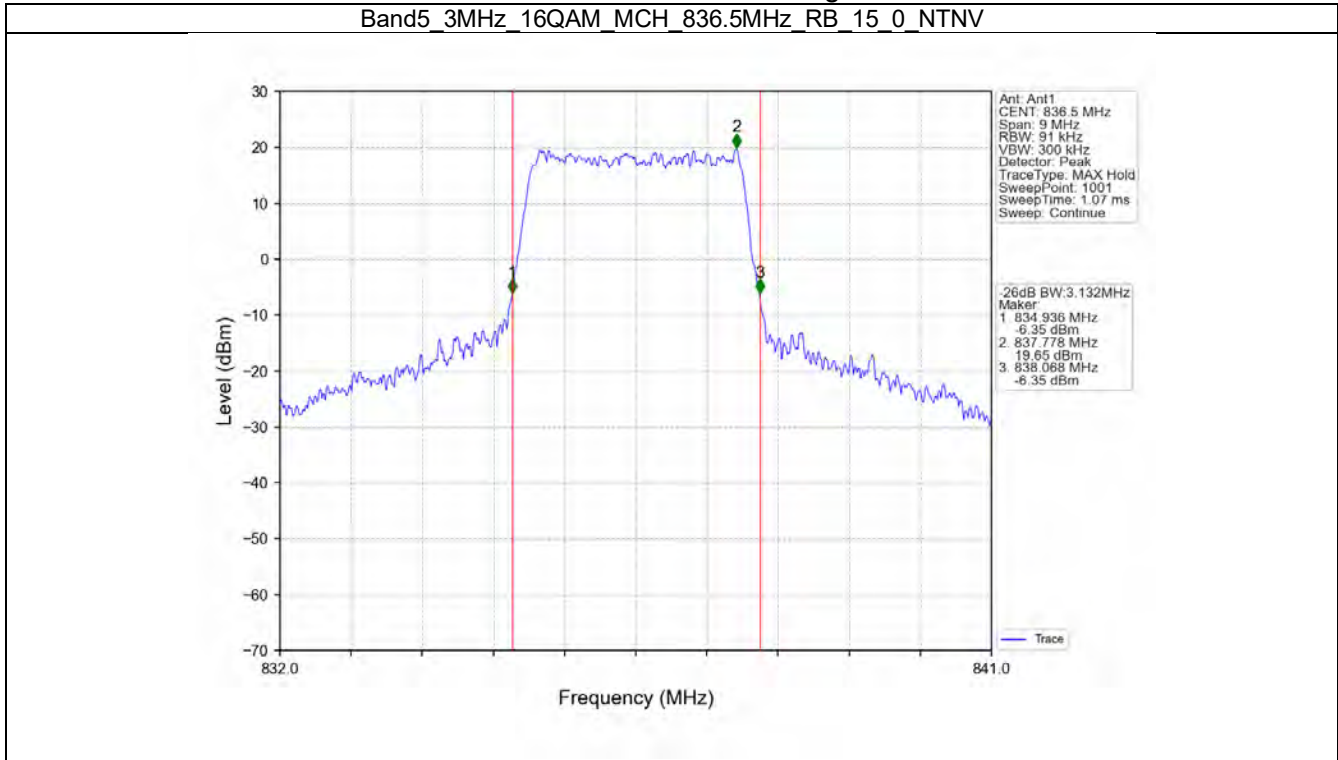
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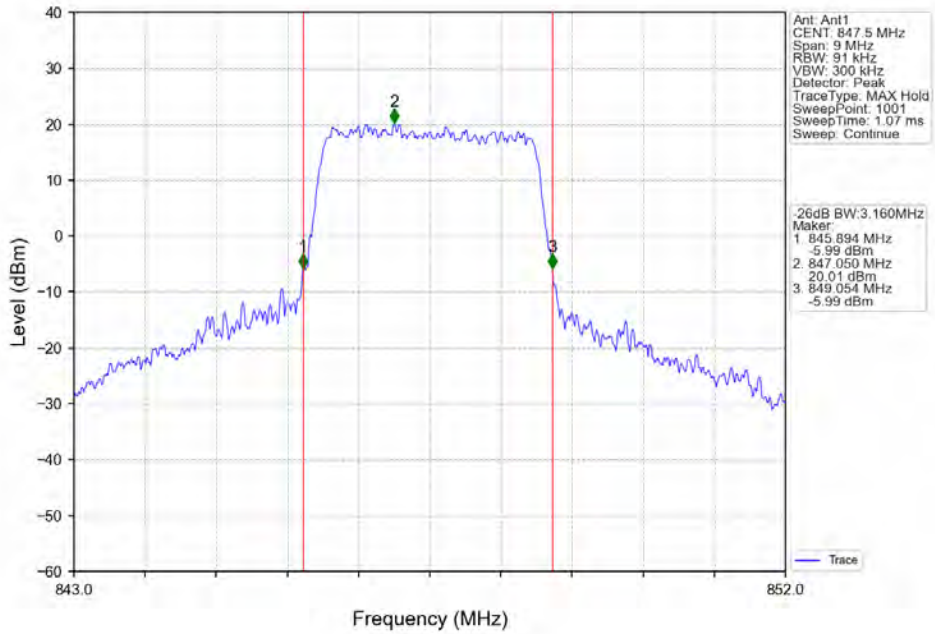
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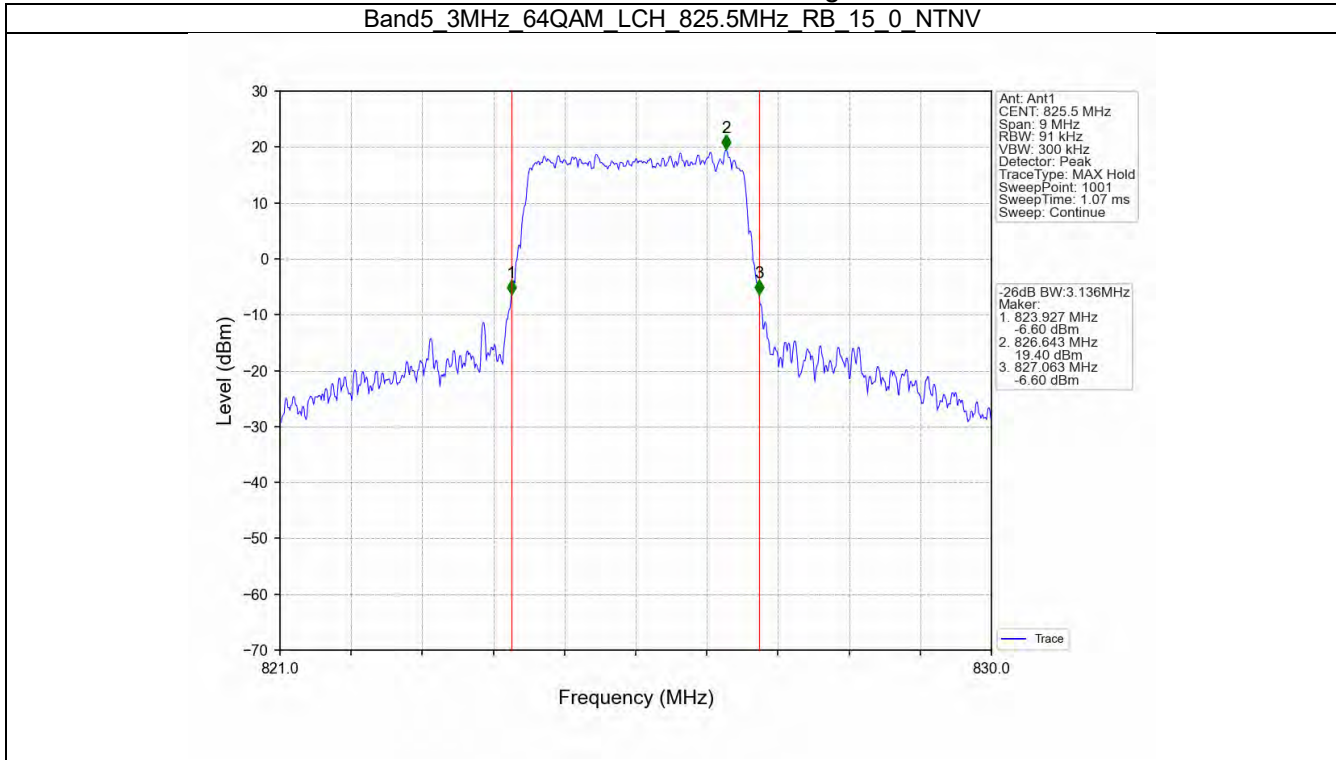
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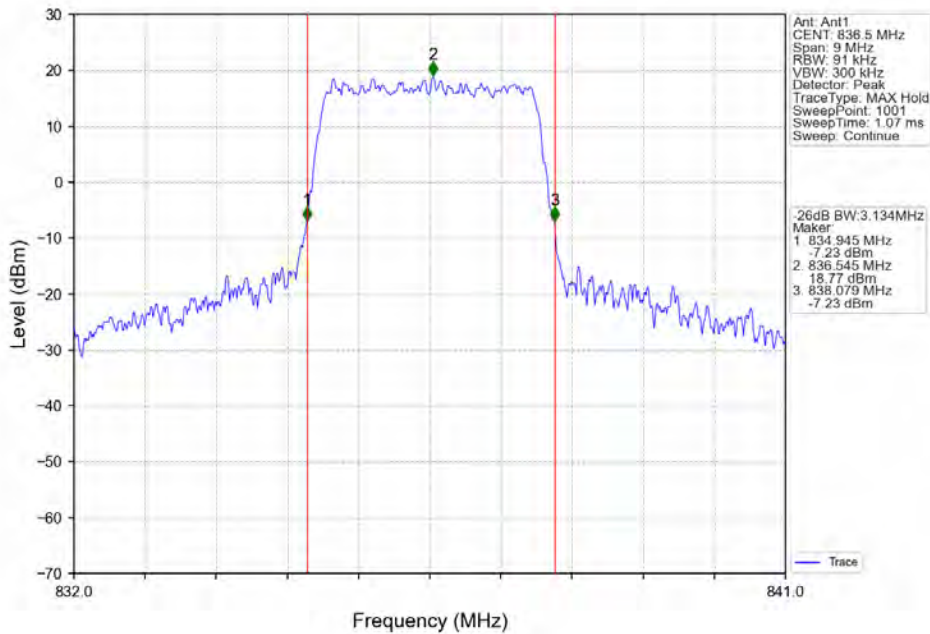
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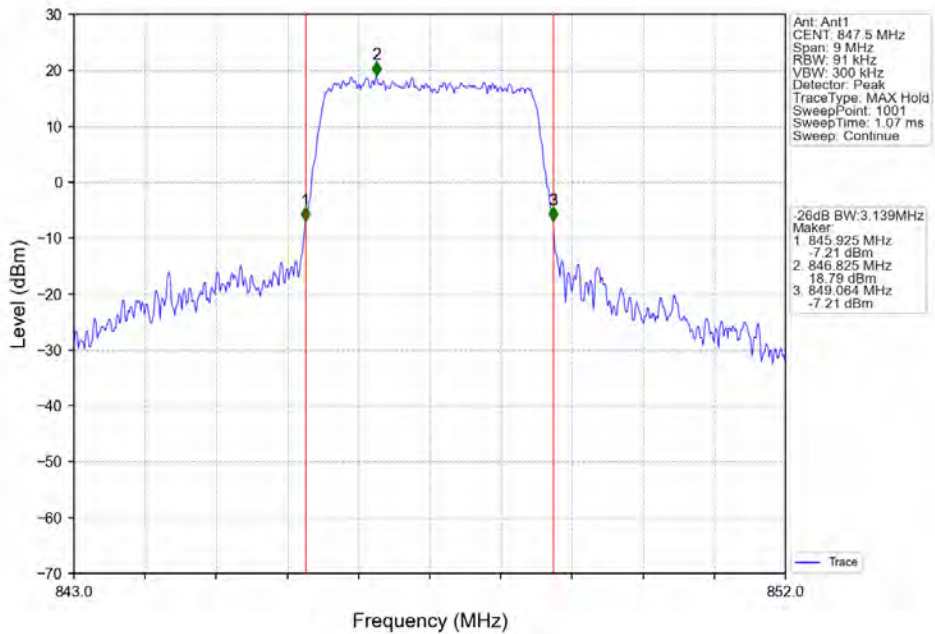
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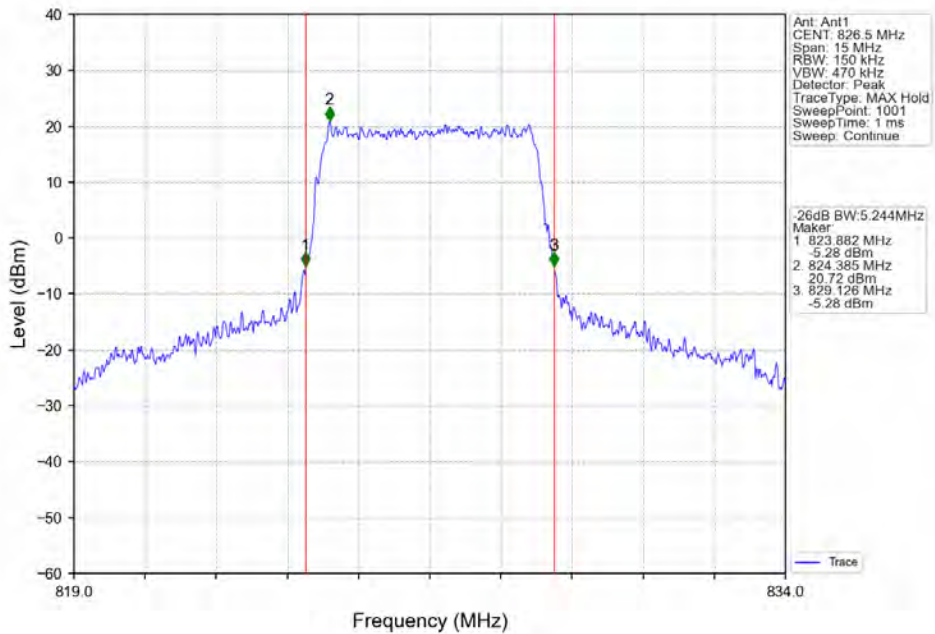
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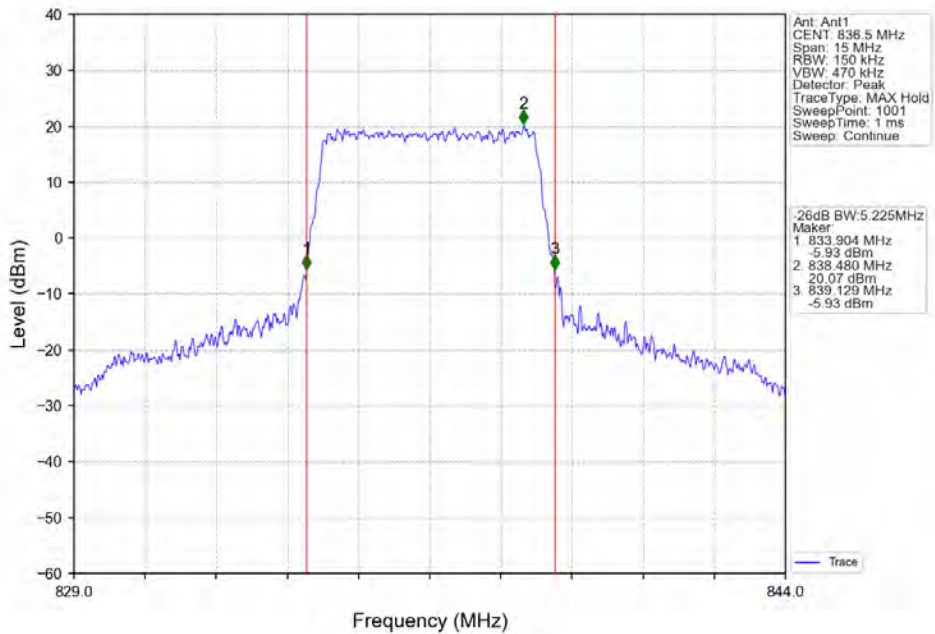
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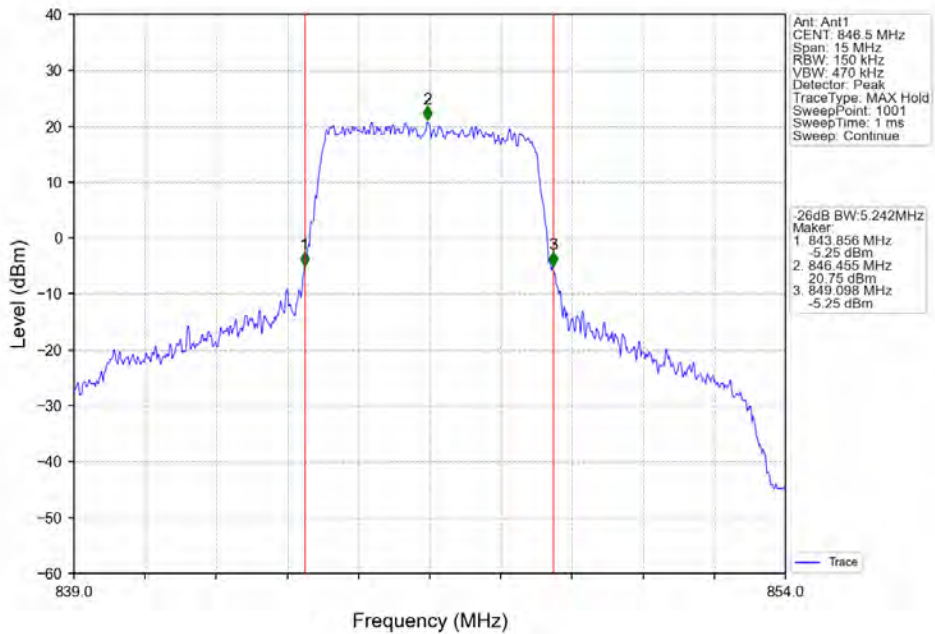
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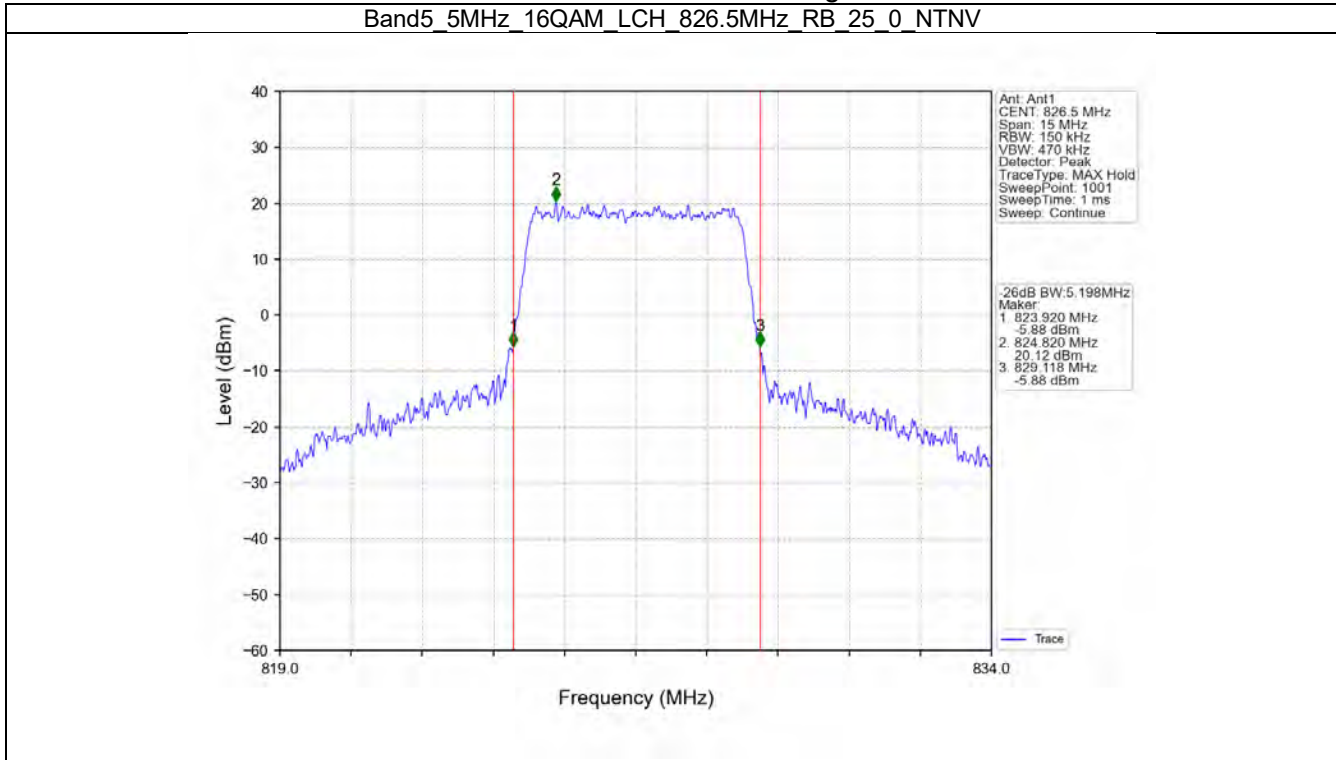
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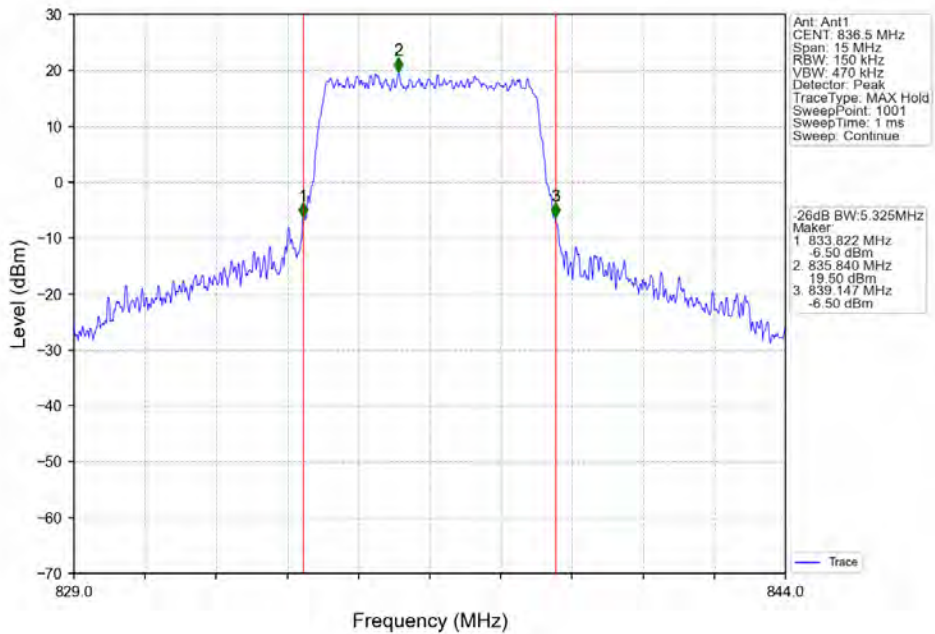
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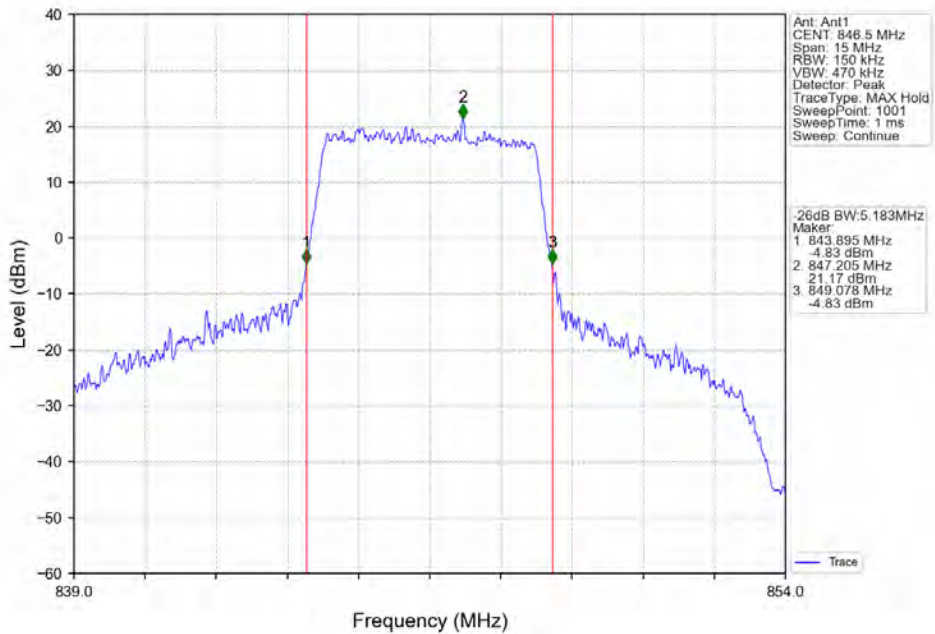
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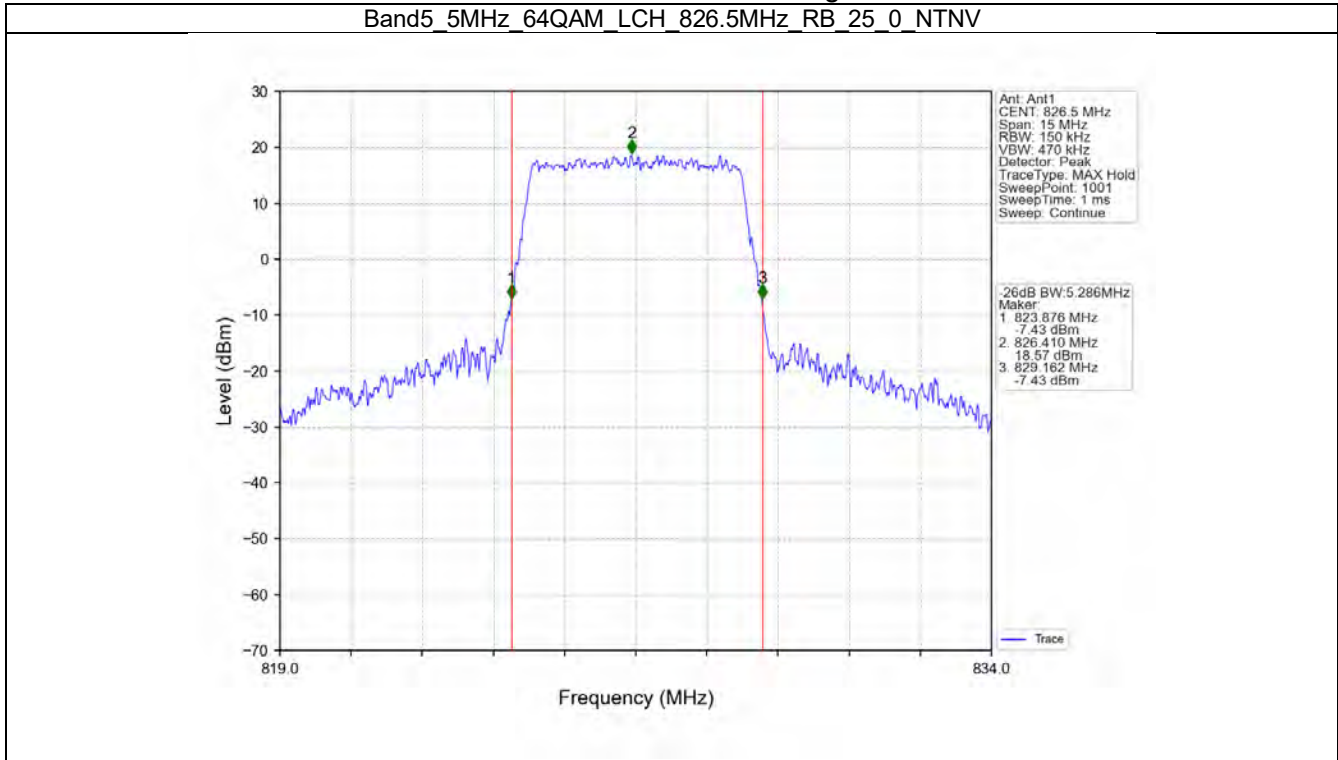
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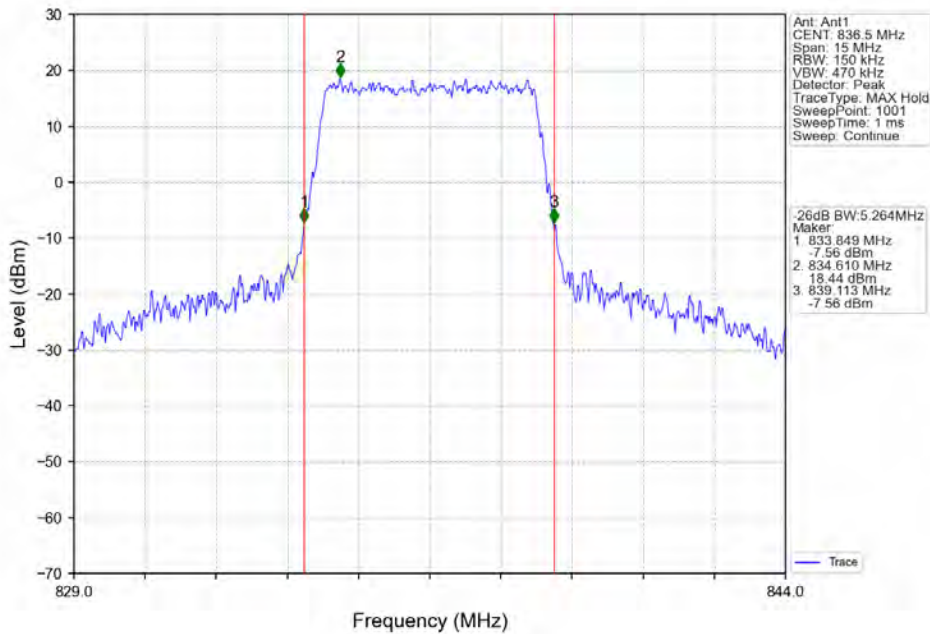
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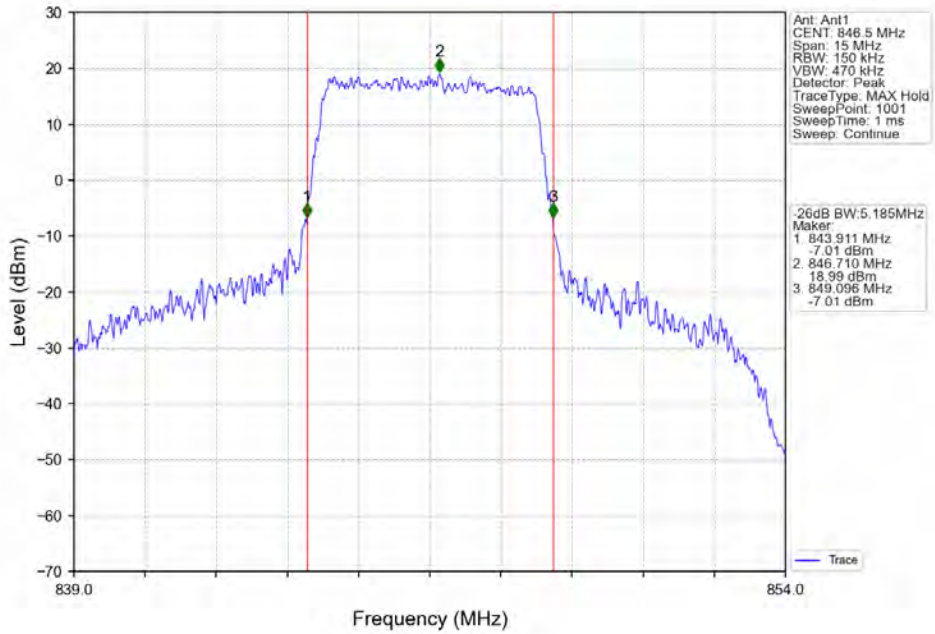
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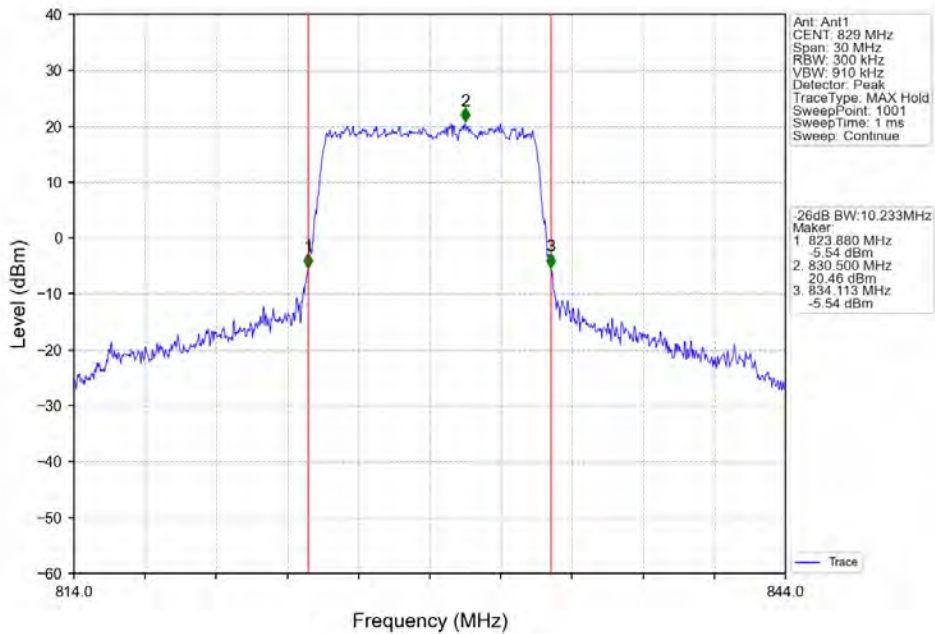
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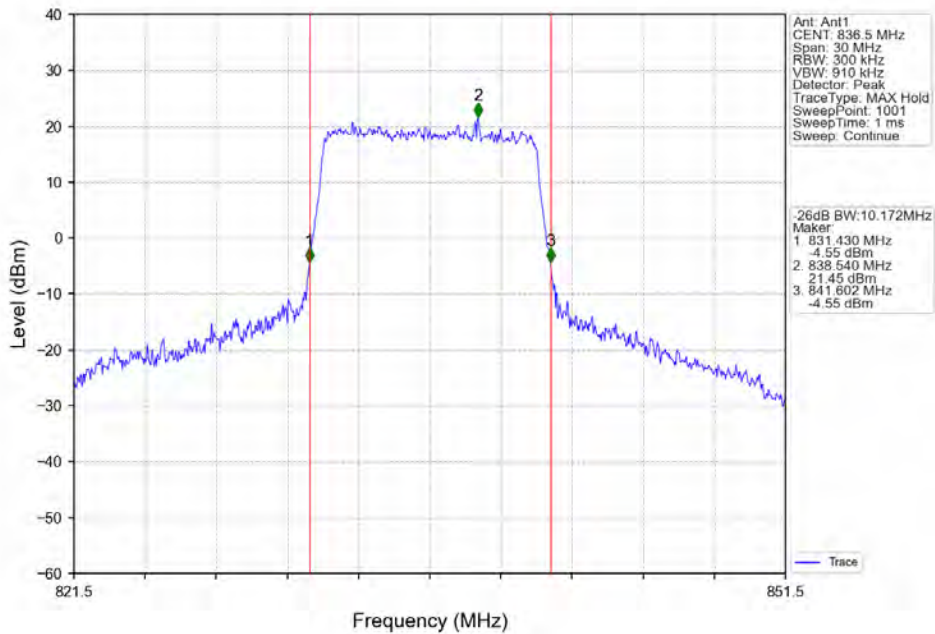
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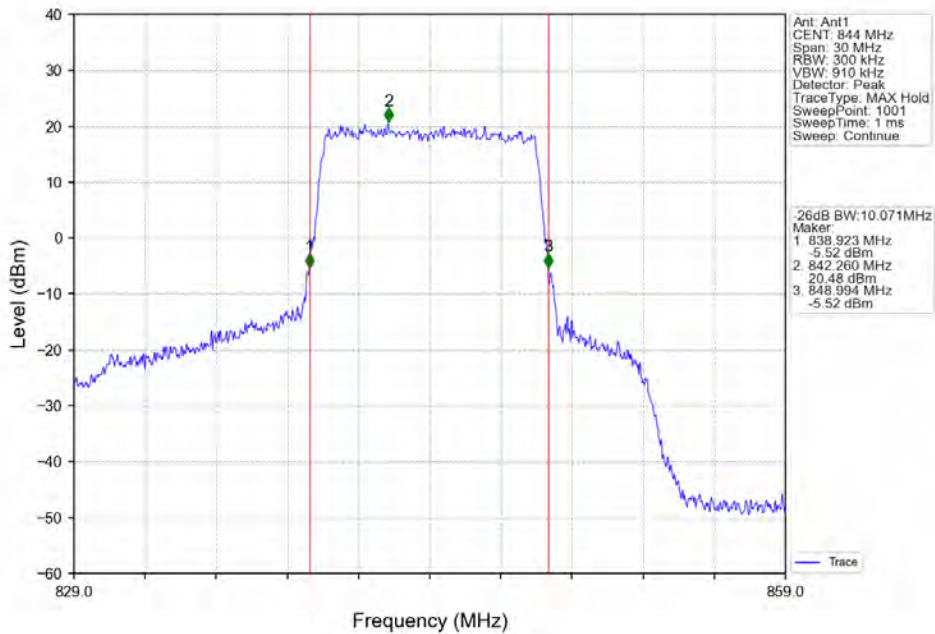
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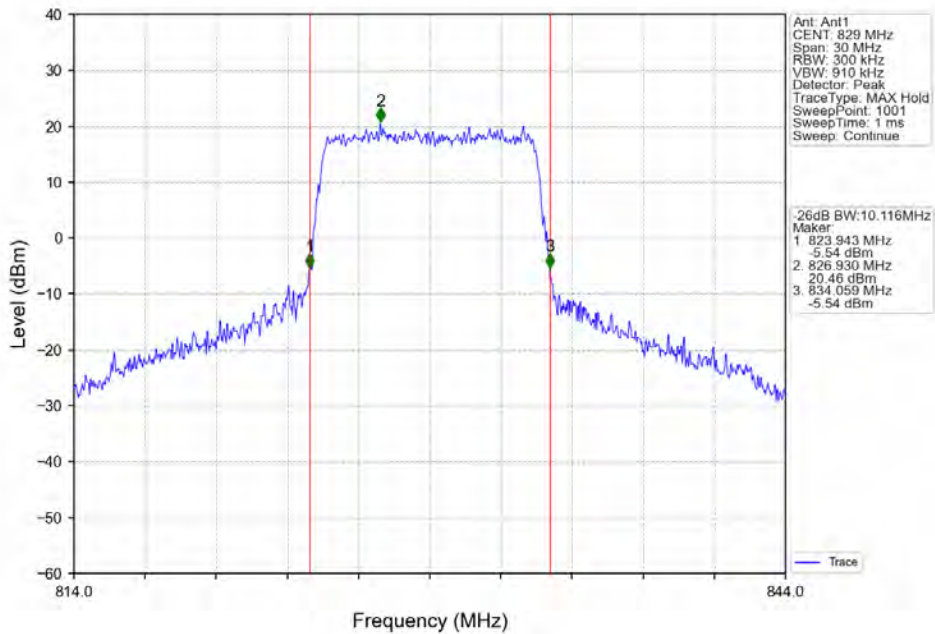
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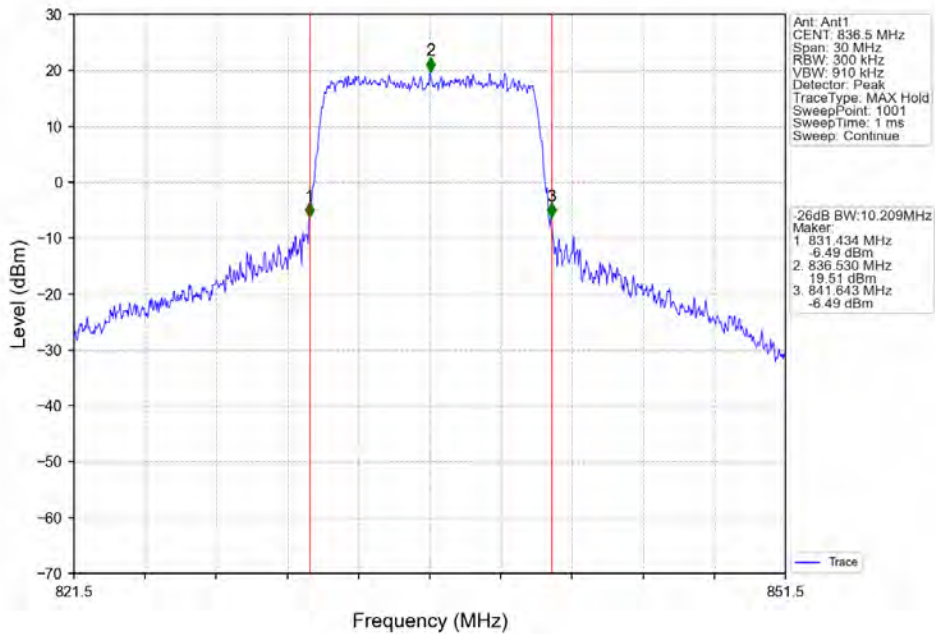
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Band5_10MHz_16QAM_MCH_836.5MHz_RB_50_0_NTNV



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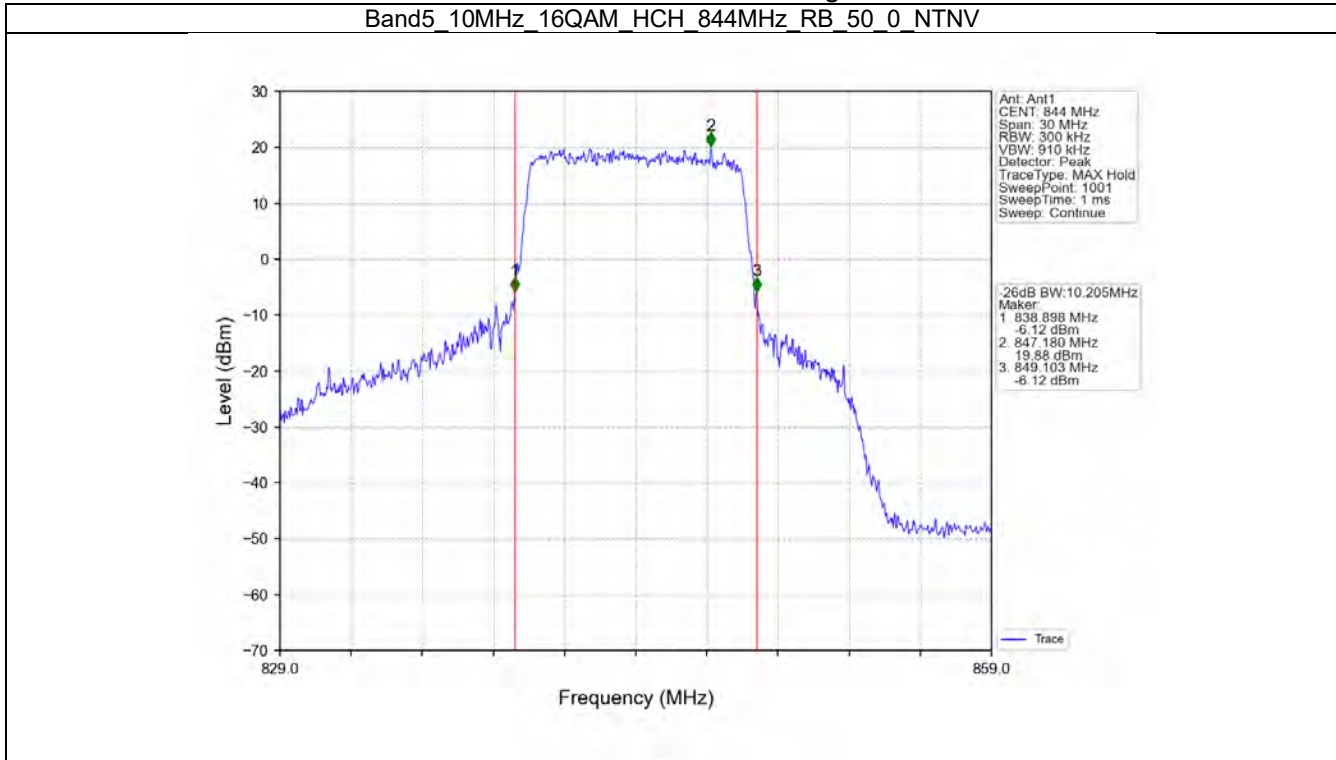
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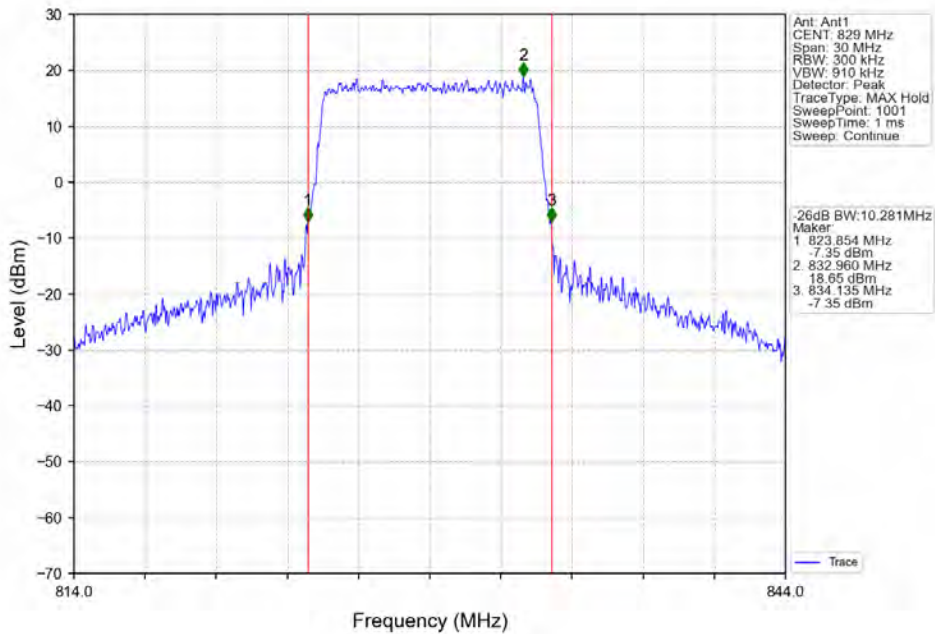
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Band5_10MHz_64QAM_LCH_829MHz_RB_50_0_NTNV



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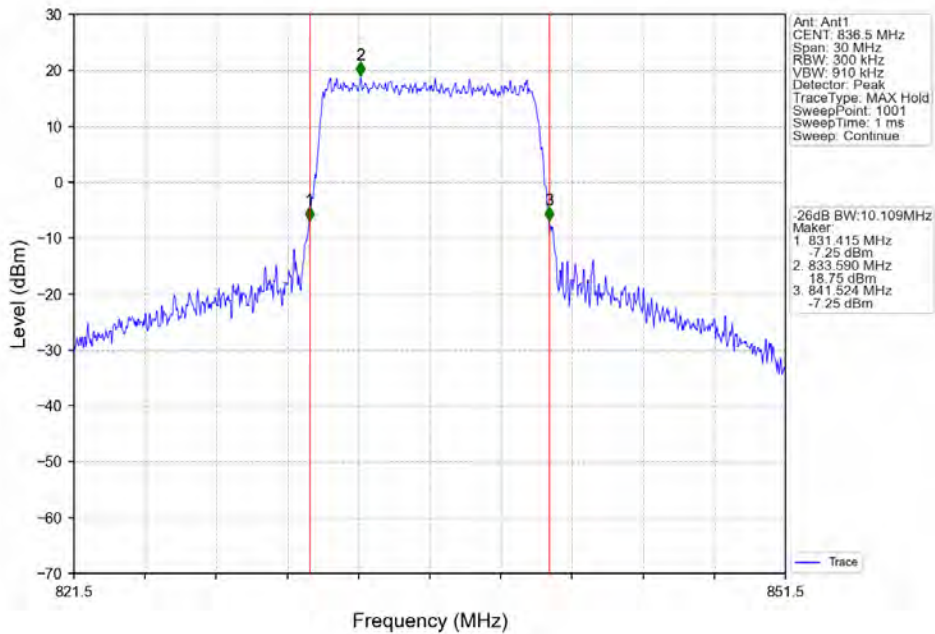
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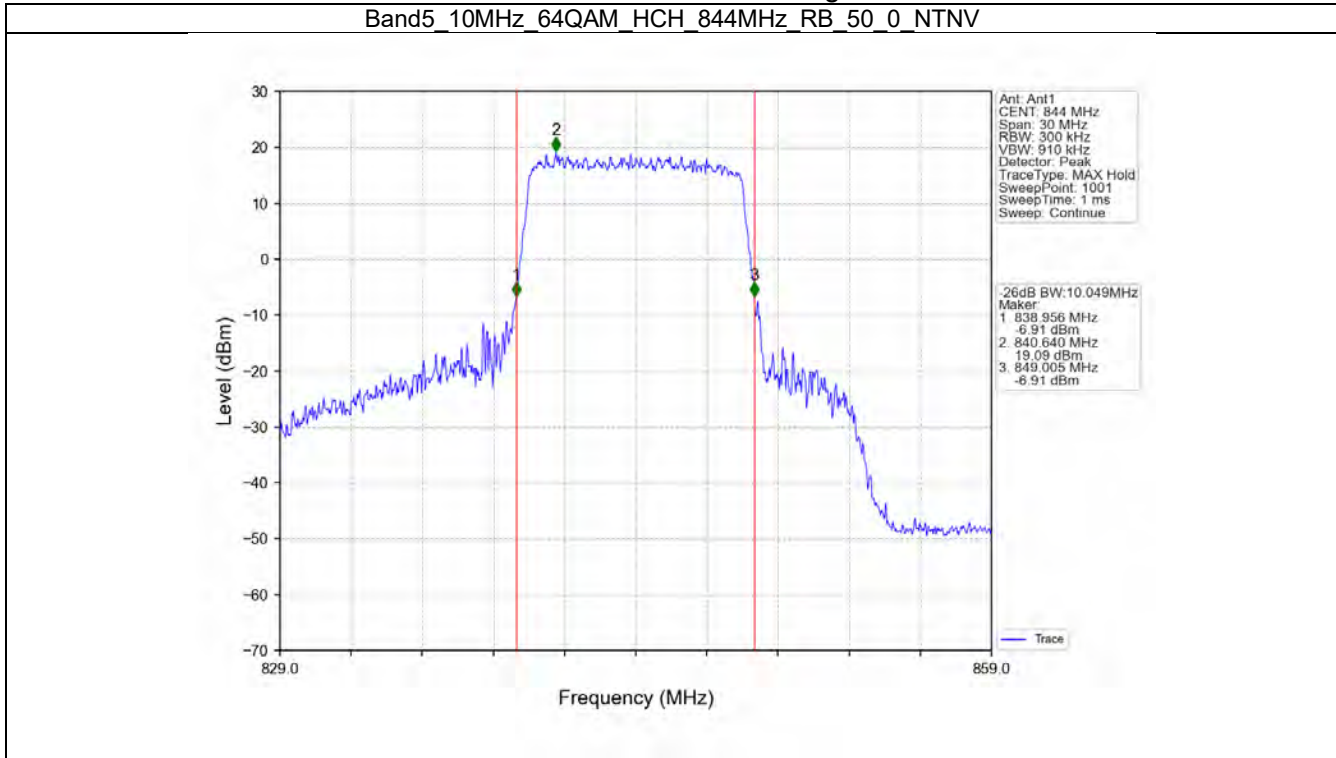
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4. Peak-Average Ratio

4.1 B5_1.4MHz

4.1.1 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	4.40	<=13	Pass
	836.5	6	0	4.46	<=13	Pass
	848.3	6	0	4.34	<=13	Pass
16QAM	824.7	6	0	5.34	<=13	Pass
	836.5	6	0	5.39	<=13	Pass
	848.3	6	0	5.30	<=13	Pass
64QAM	824.7	6	0	6.10	<=13	Pass
	836.5	6	0	6.13	<=13	Pass
	848.3	6	0	6.00	<=13	Pass



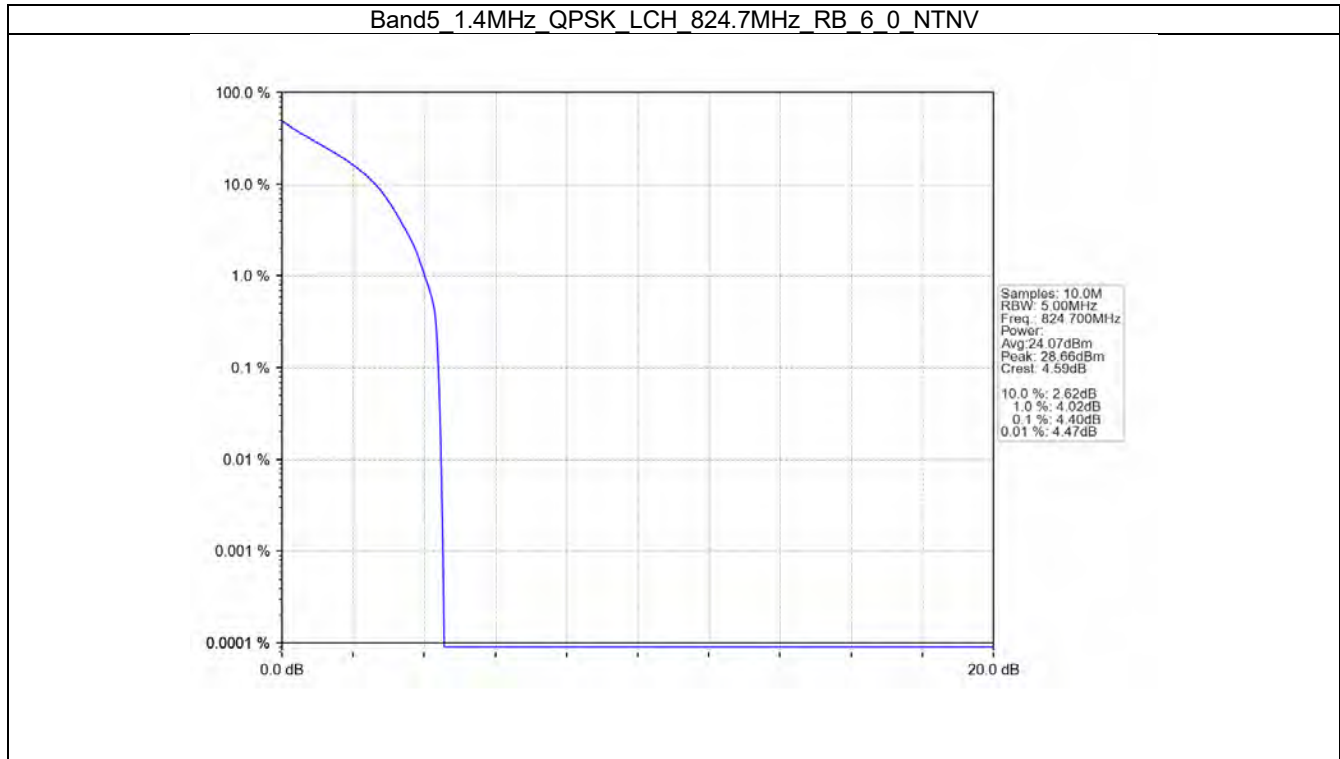
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4.1.2 Test Graph



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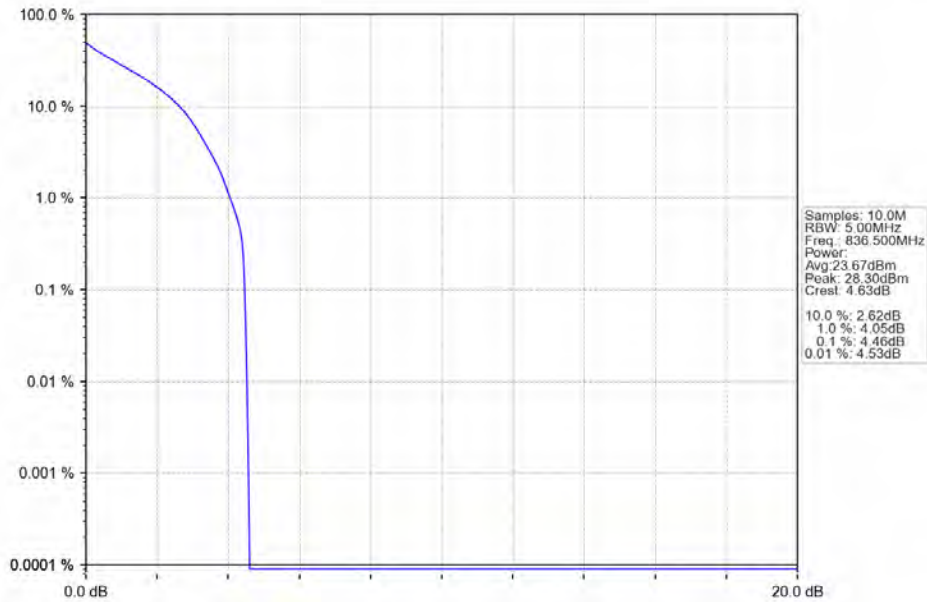
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Band5 1.4MHz QPSK MCH_836.5MHz RB_6_0_NTNV



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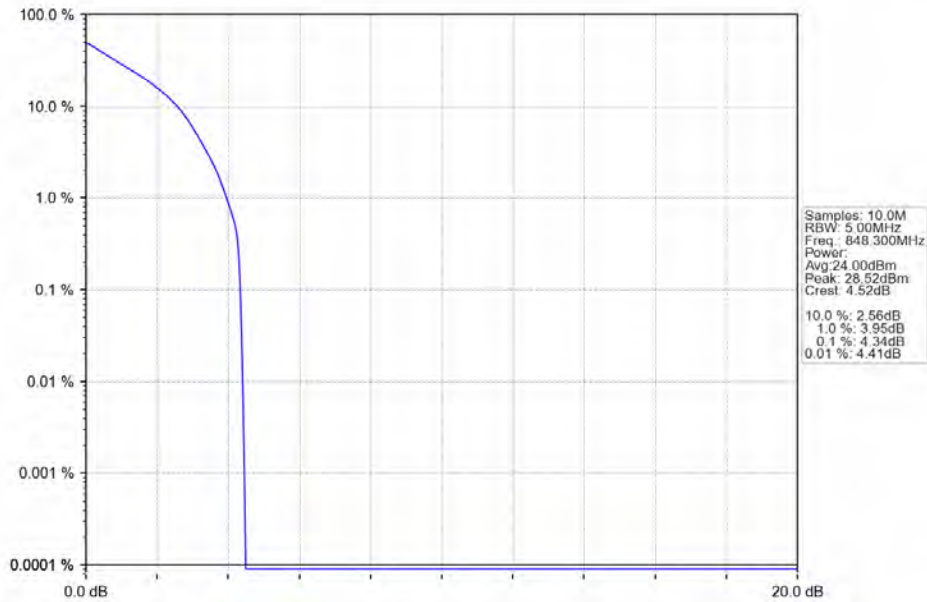
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Band5 1.4MHz QPSK HCH 848.3MHz RB 6_0 NTNv



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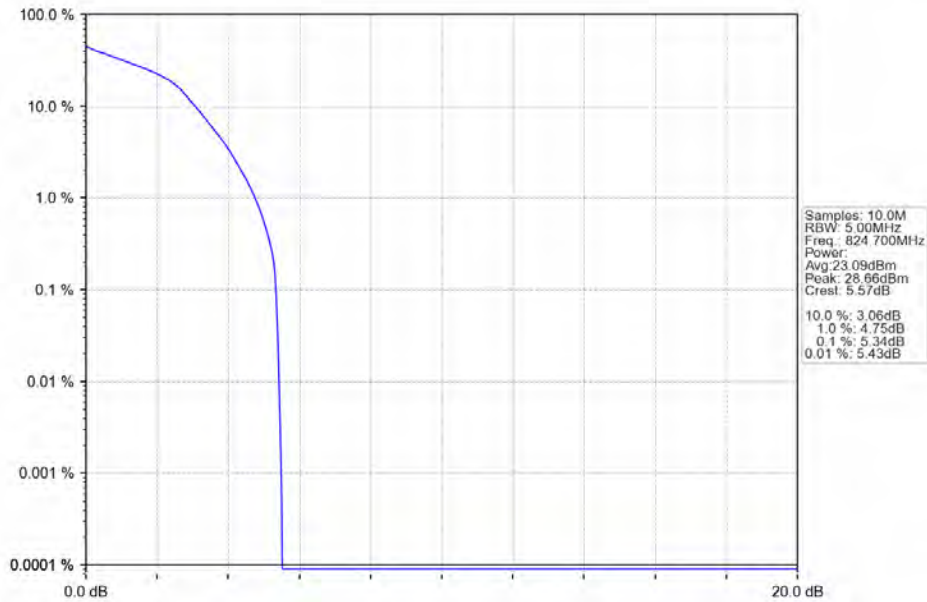
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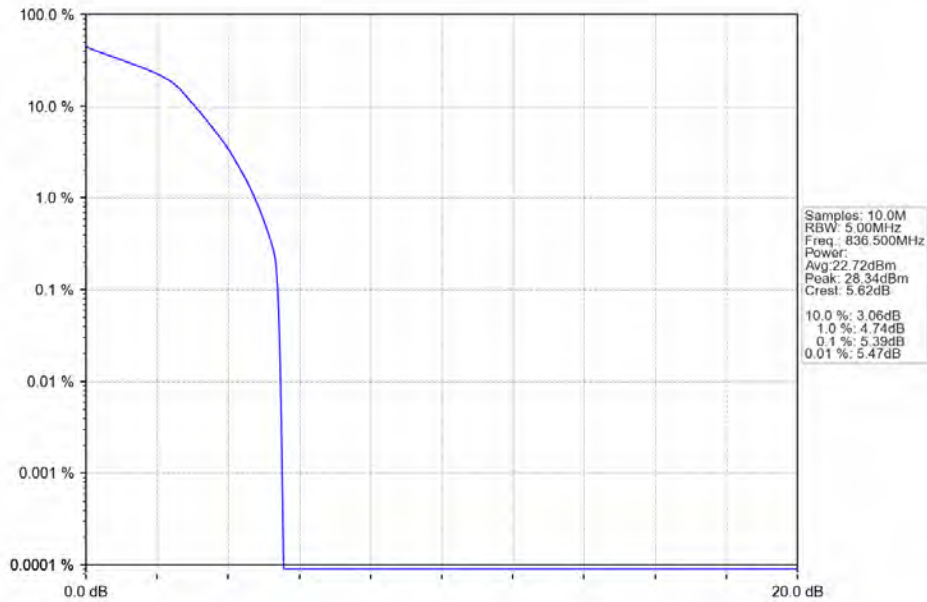
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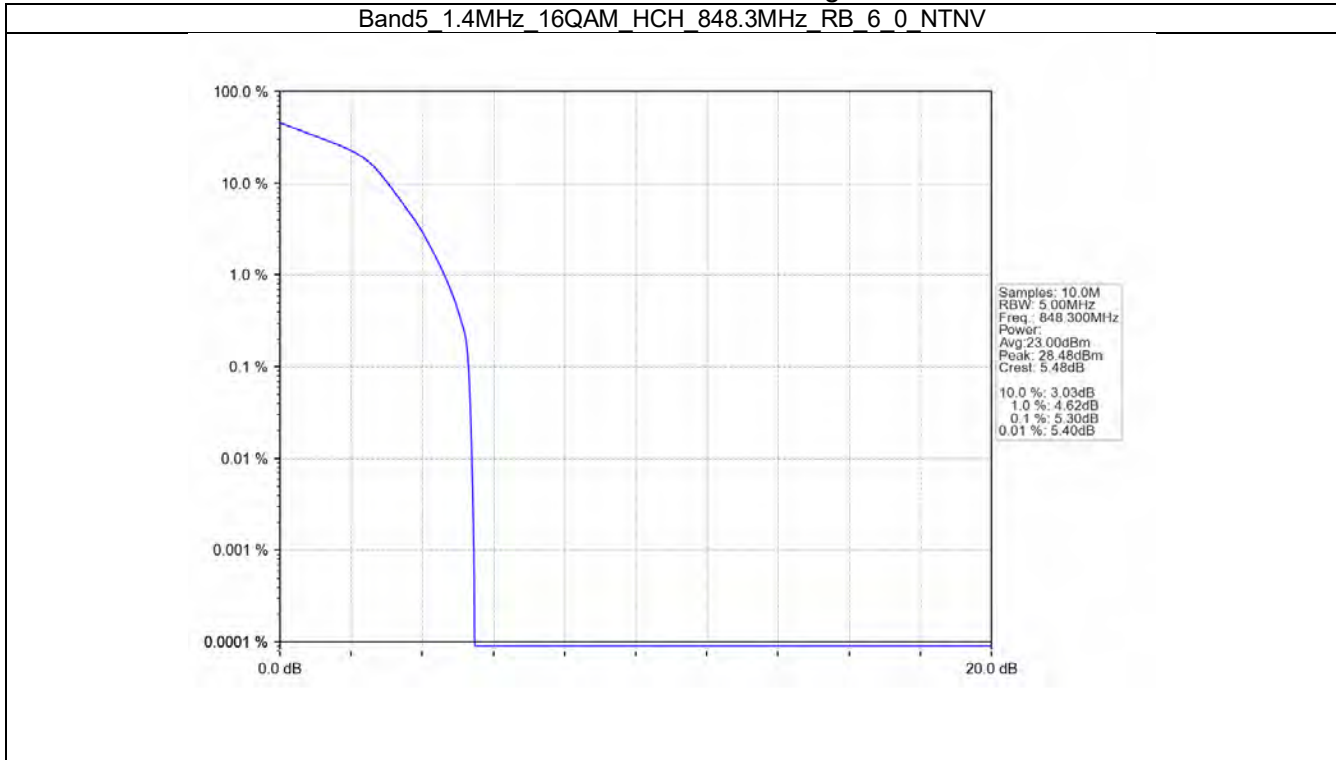
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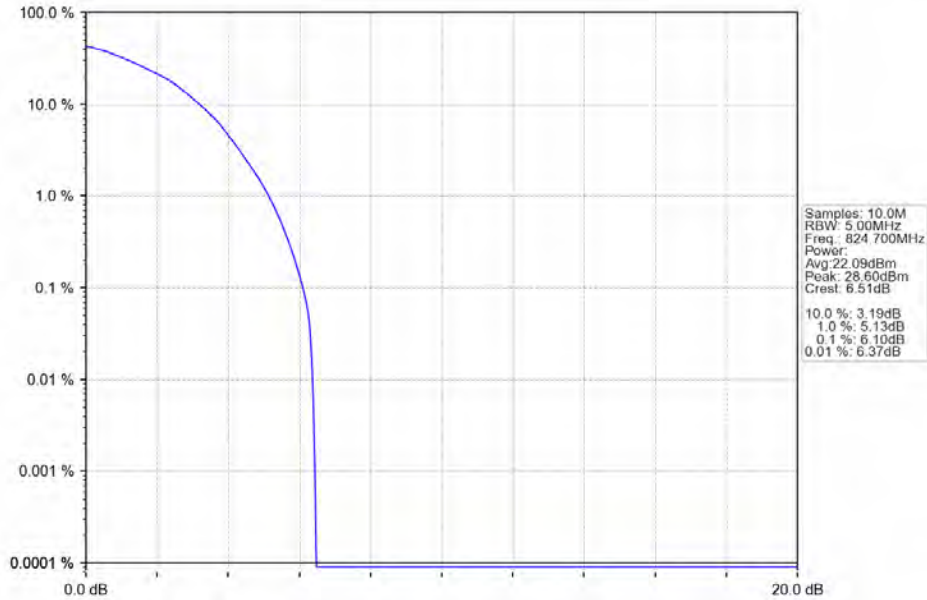
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Band5_1.4MHz_64QAM_LCH_824.7MHz_RB_6_0_NTNV



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Band5_1.4MHz_64QAM_MCH_836.5MHz_RB_6_0_NTNV



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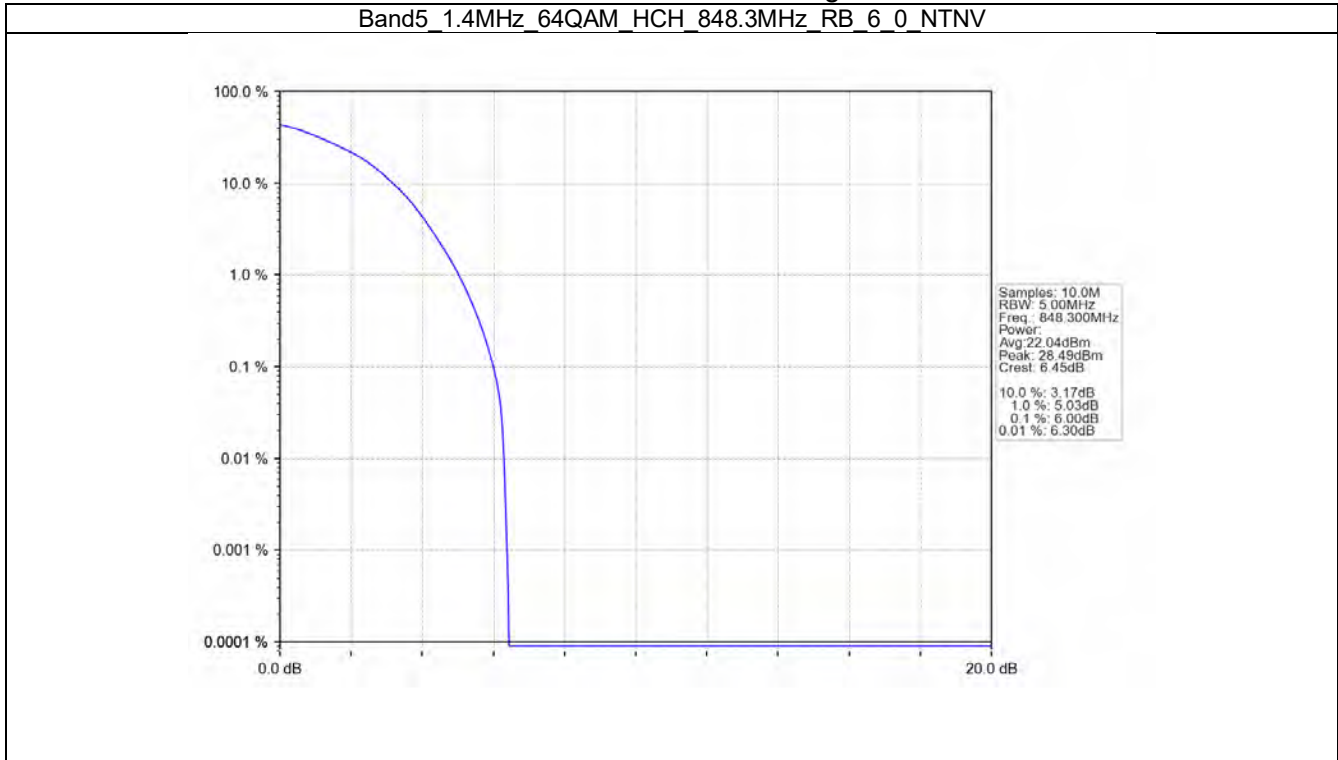
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4.2 B5_3MHz

4.2.1 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	4.67	<=13	Pass
	836.5	15	0	4.69	<=13	Pass
	847.5	15	0	4.56	<=13	Pass
16QAM	825.5	15	0	5.54	<=13	Pass
	836.5	15	0	5.57	<=13	Pass
	847.5	15	0	5.46	<=13	Pass
64QAM	825.5	15	0	6.17	<=13	Pass
	836.5	15	0	6.22	<=13	Pass
	847.5	15	0	6.11	<=13	Pass



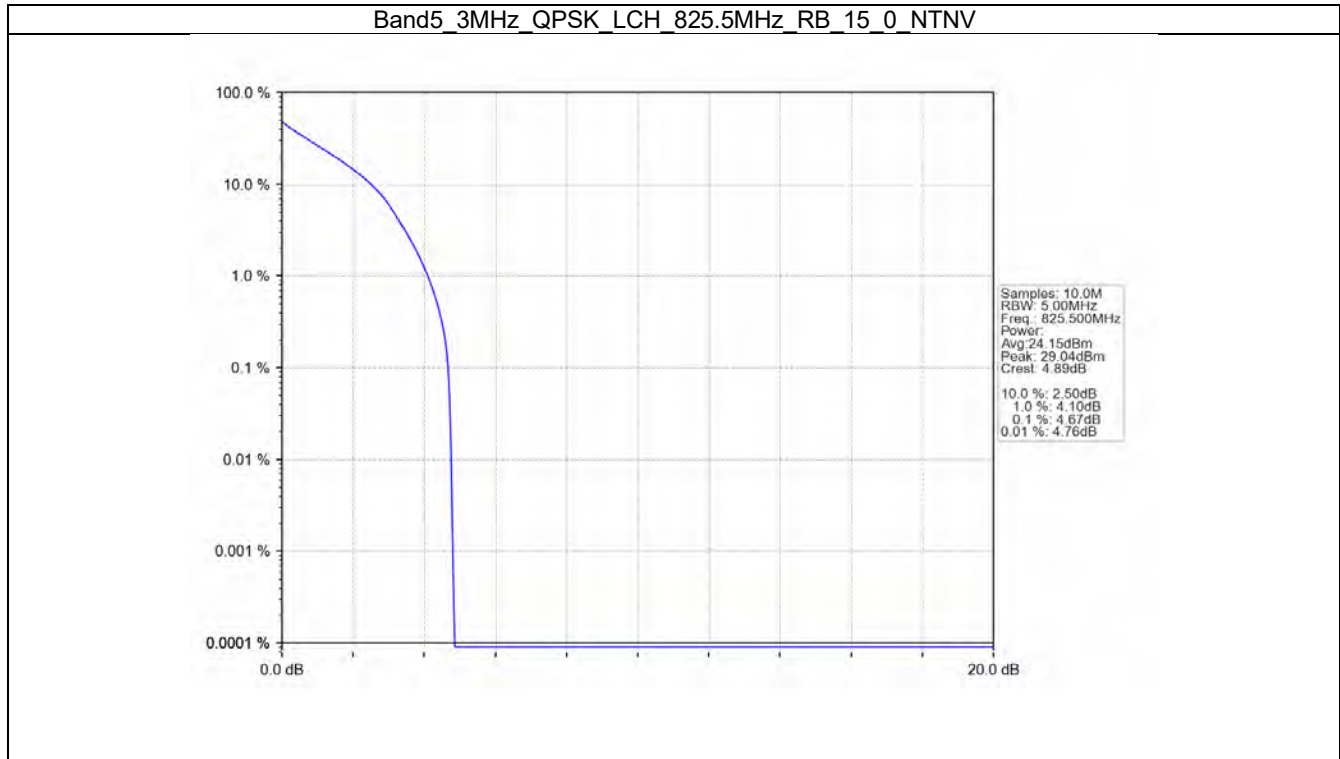
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4.2.2 Test Graph



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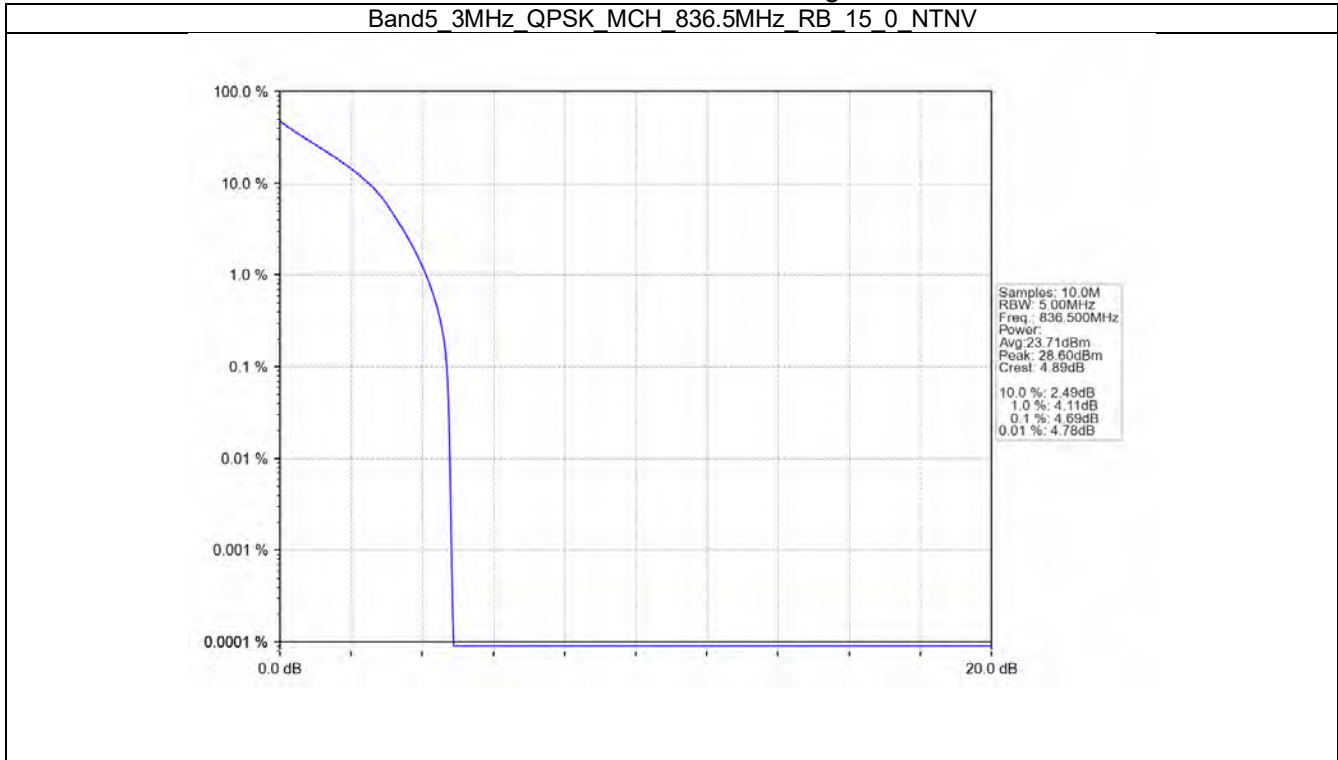
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Band5_3MHz_QPSK_MCH_836.5MHz_RB_15_0_NTNV



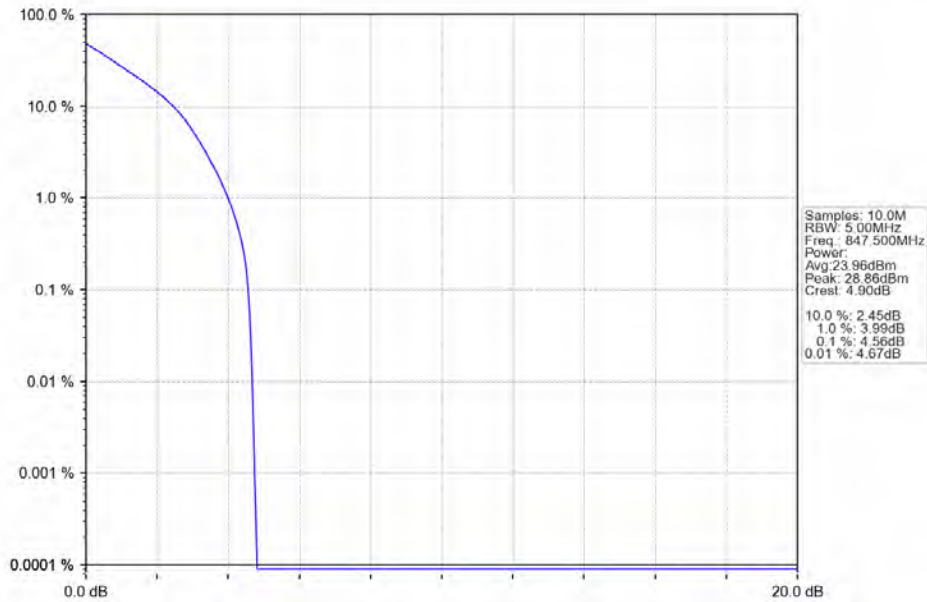
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Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



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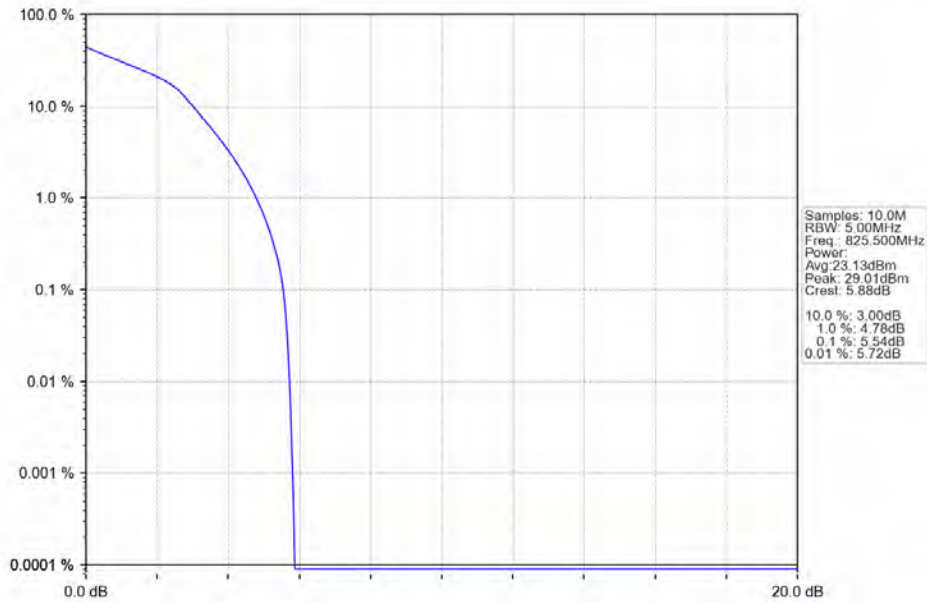
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Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



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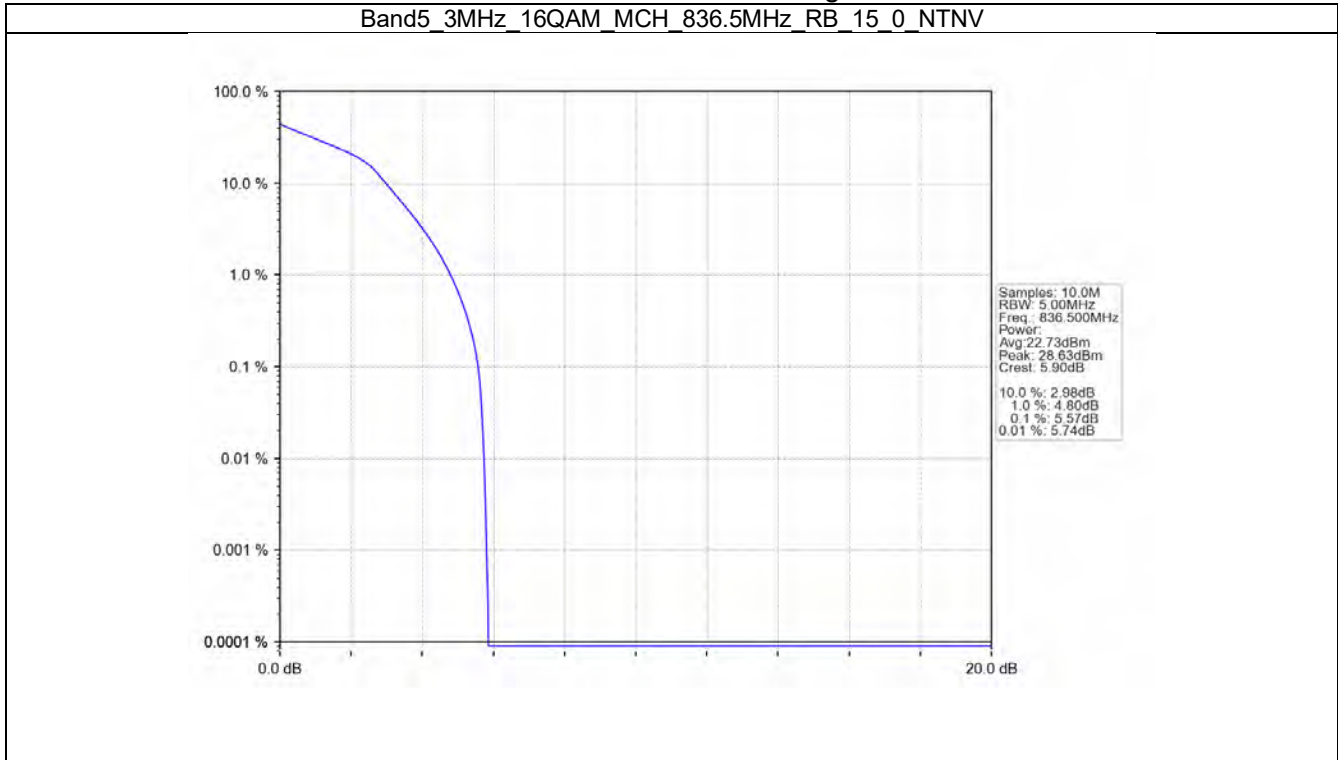
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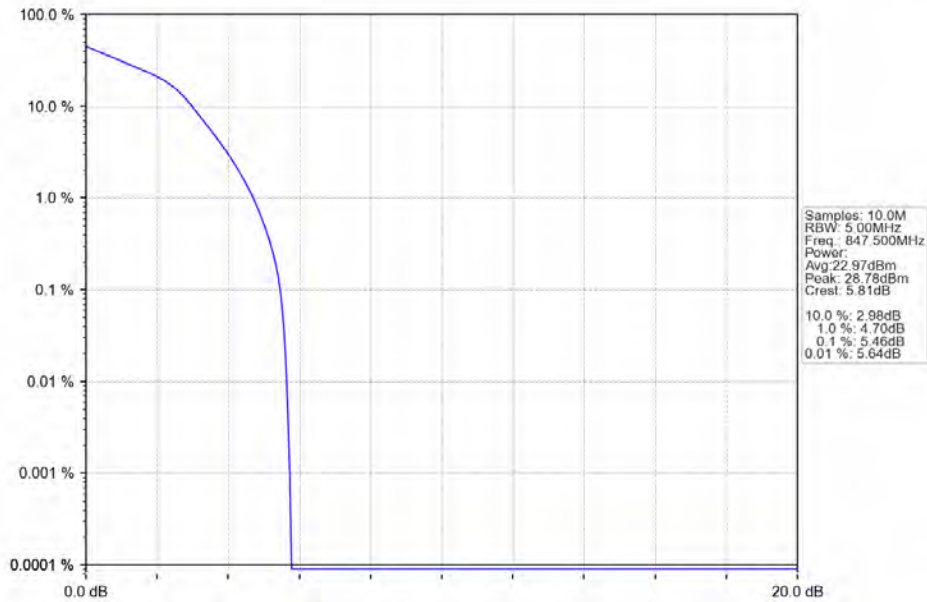
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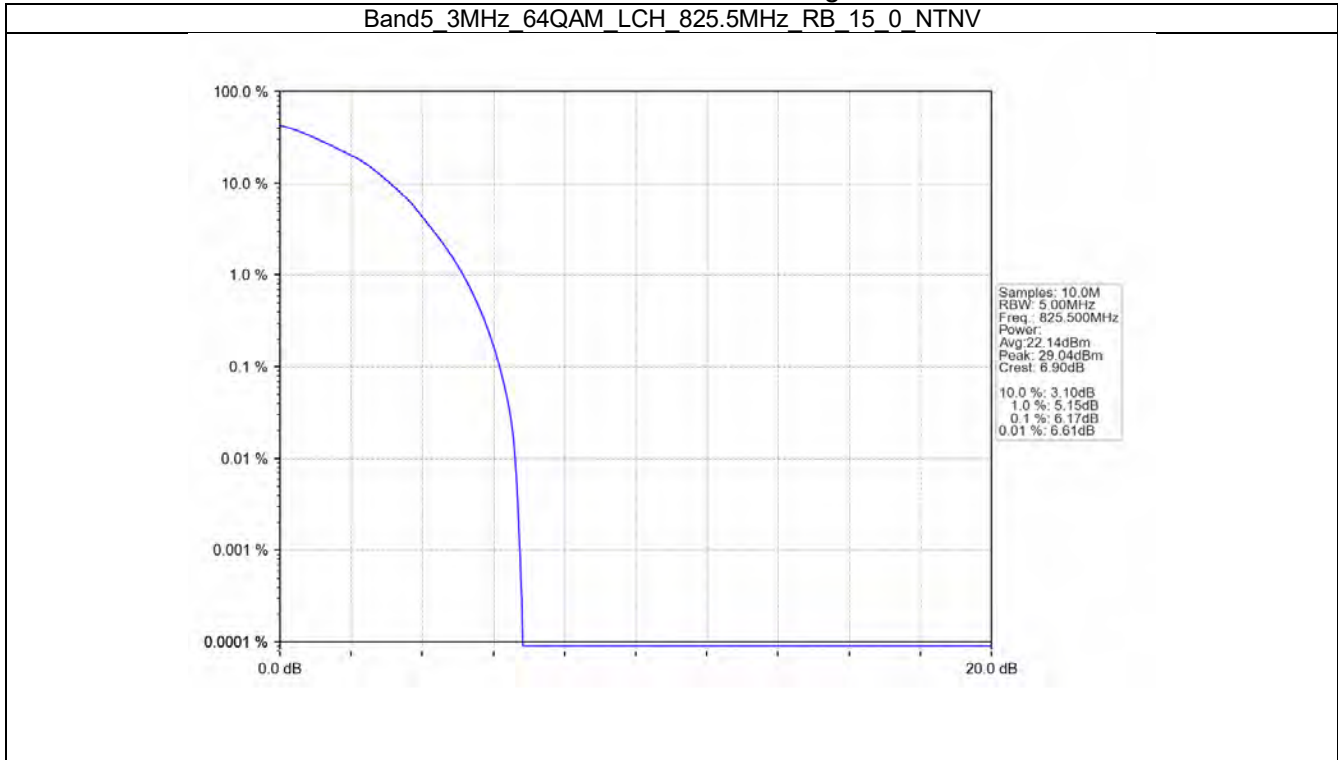
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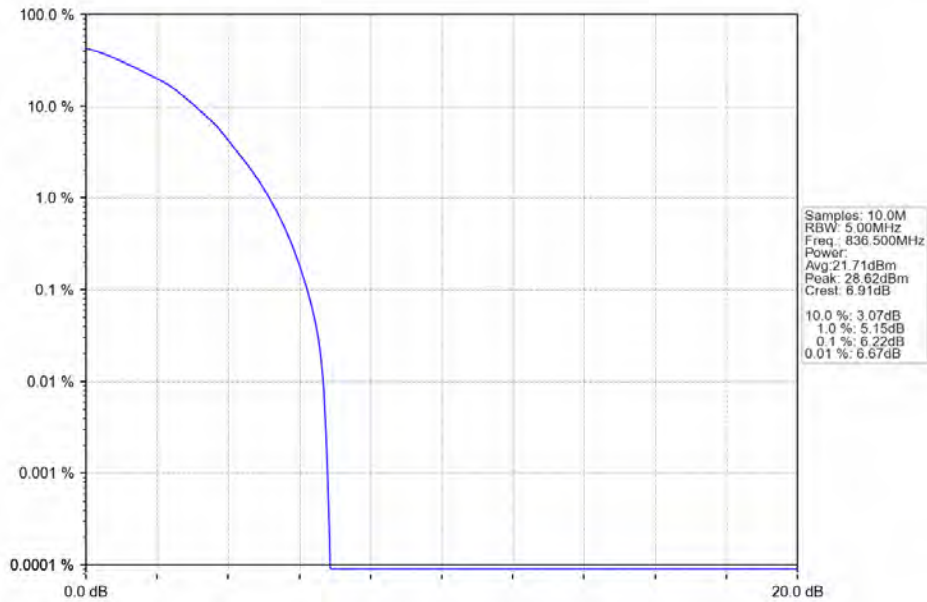
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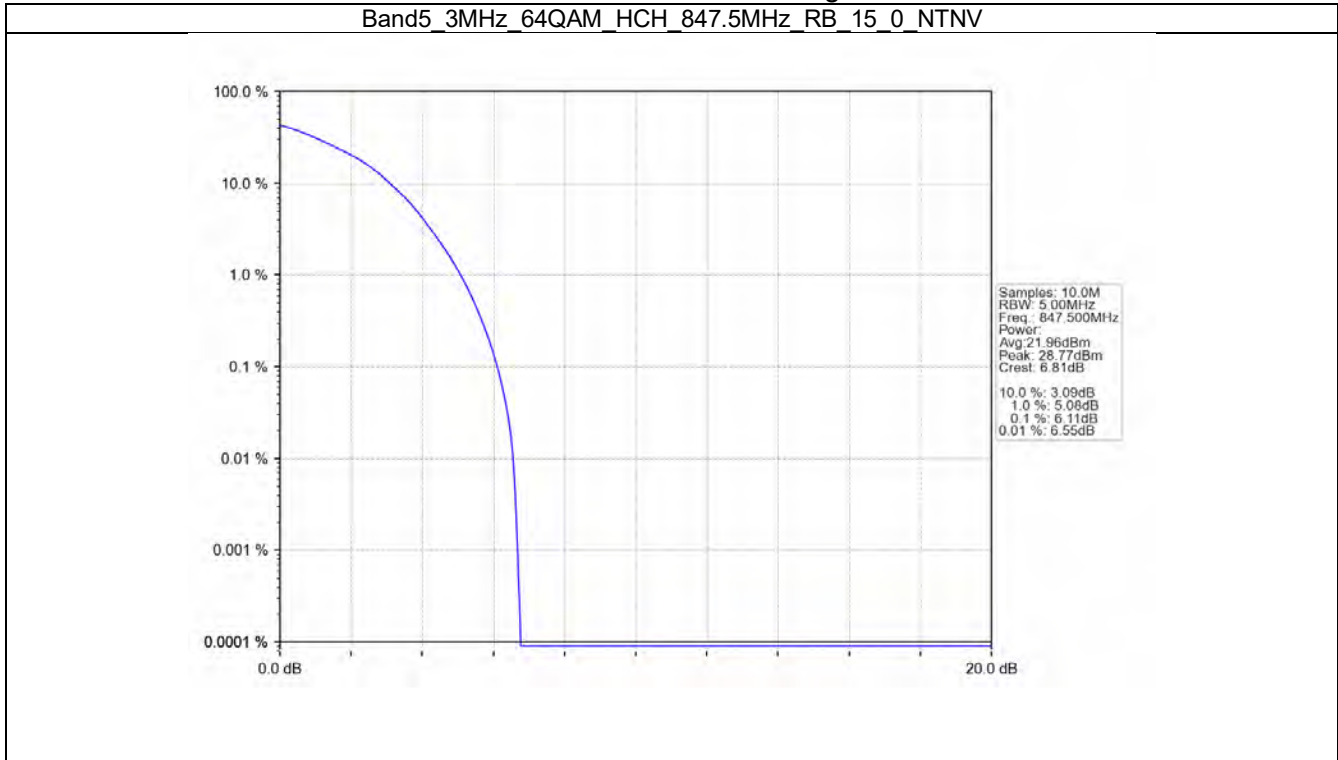
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4.3 B5_5MHz

4.3.1 Test Result

Band: 5 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	826.5	25	0	4.98	<=13	Pass
	836.5	25	0	5.01	<=13	Pass
	846.5	25	0	4.91	<=13	Pass
16QAM	826.5	25	0	5.81	<=13	Pass
	836.5	25	0	5.83	<=13	Pass
	846.5	25	0	5.75	<=13	Pass
64QAM	826.5	25	0	6.31	<=13	Pass
	836.5	25	0	6.31	<=13	Pass
	846.5	25	0	6.24	<=13	Pass



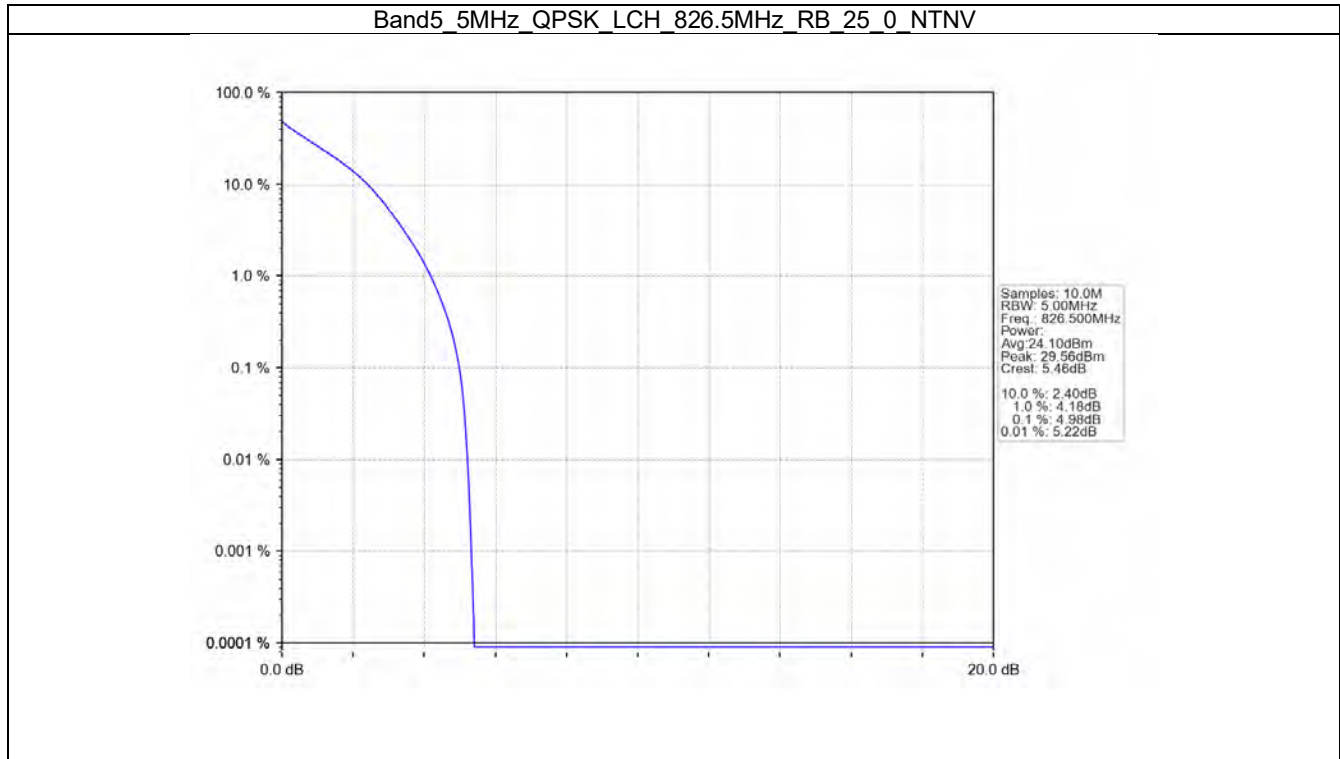
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4.3.2 Test Graph



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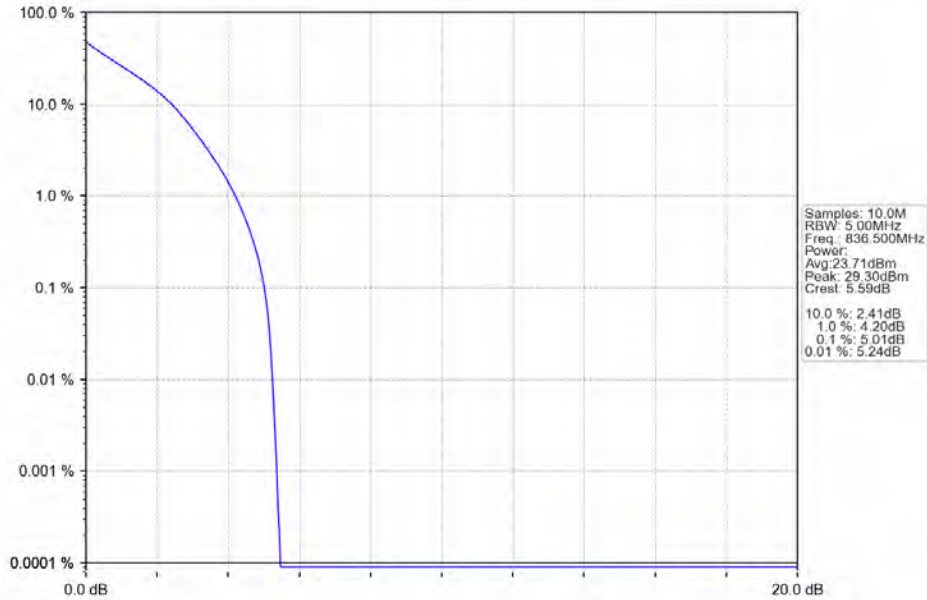
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Band5_5MHz_QPSK_MCH_836.5MHz_RB_25_0_NTNV



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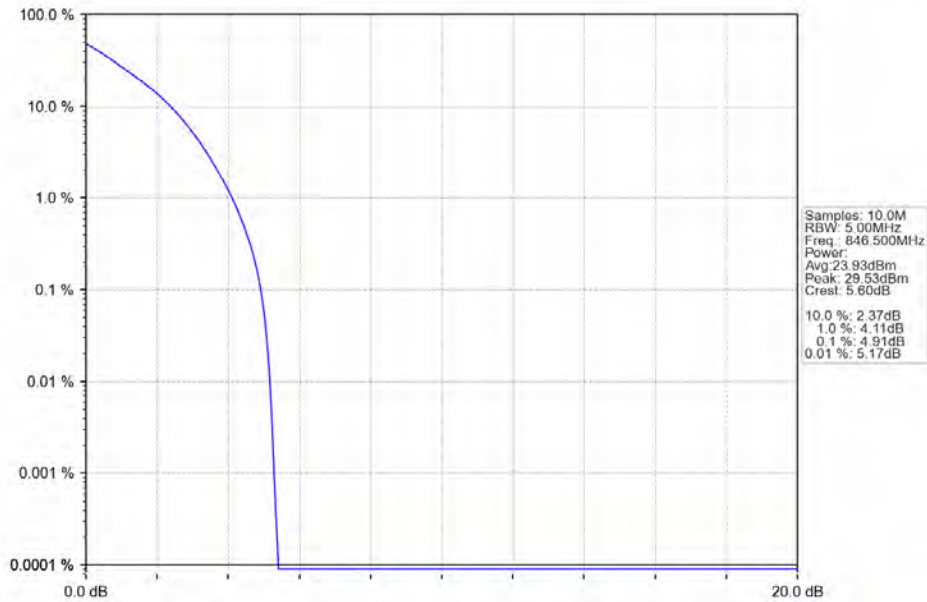
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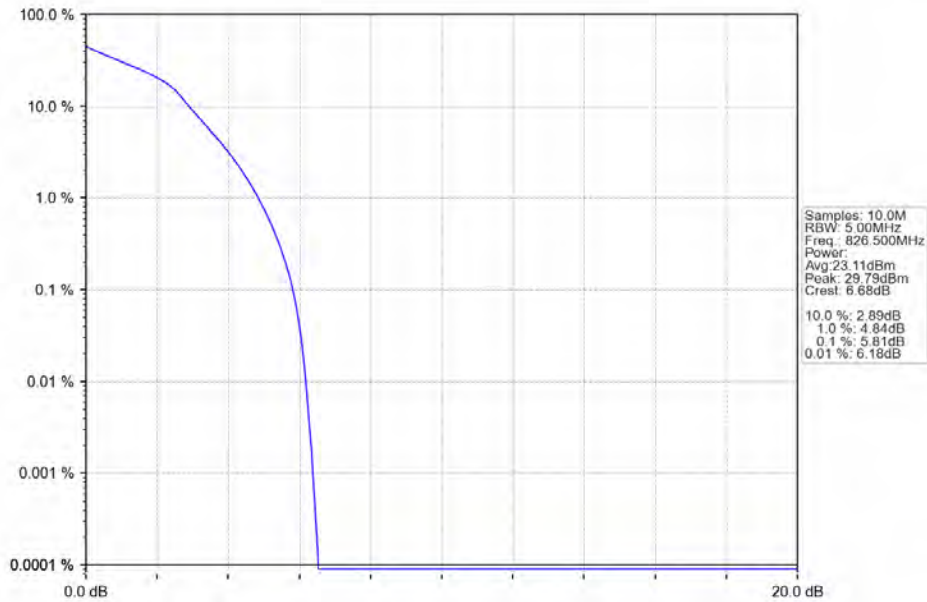
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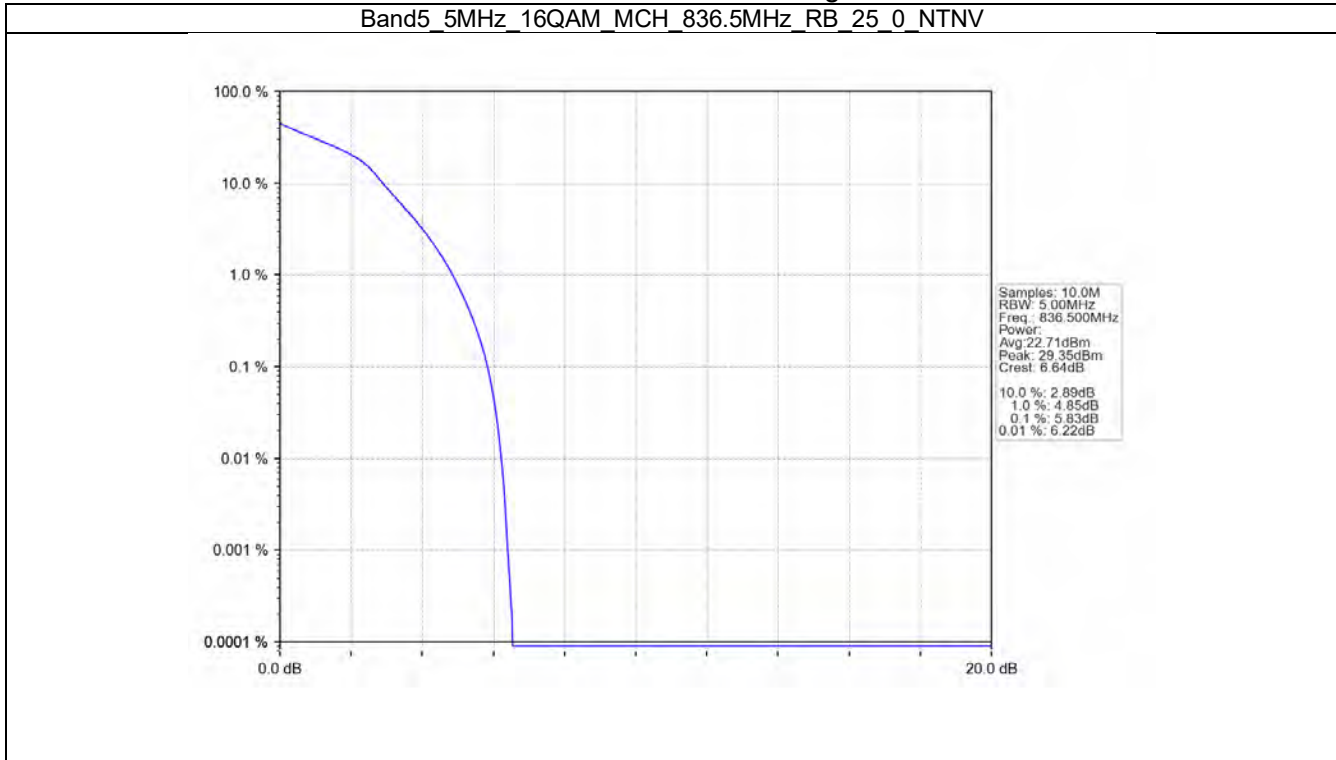
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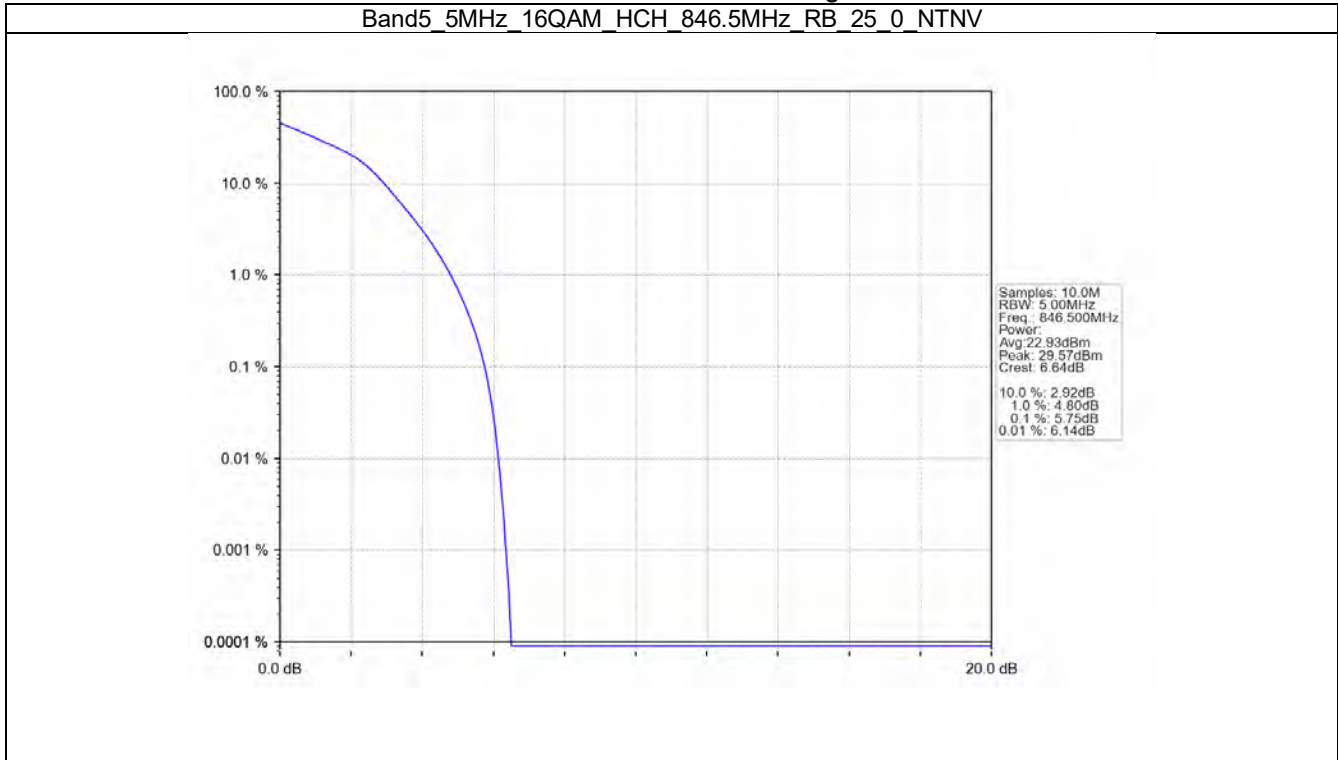
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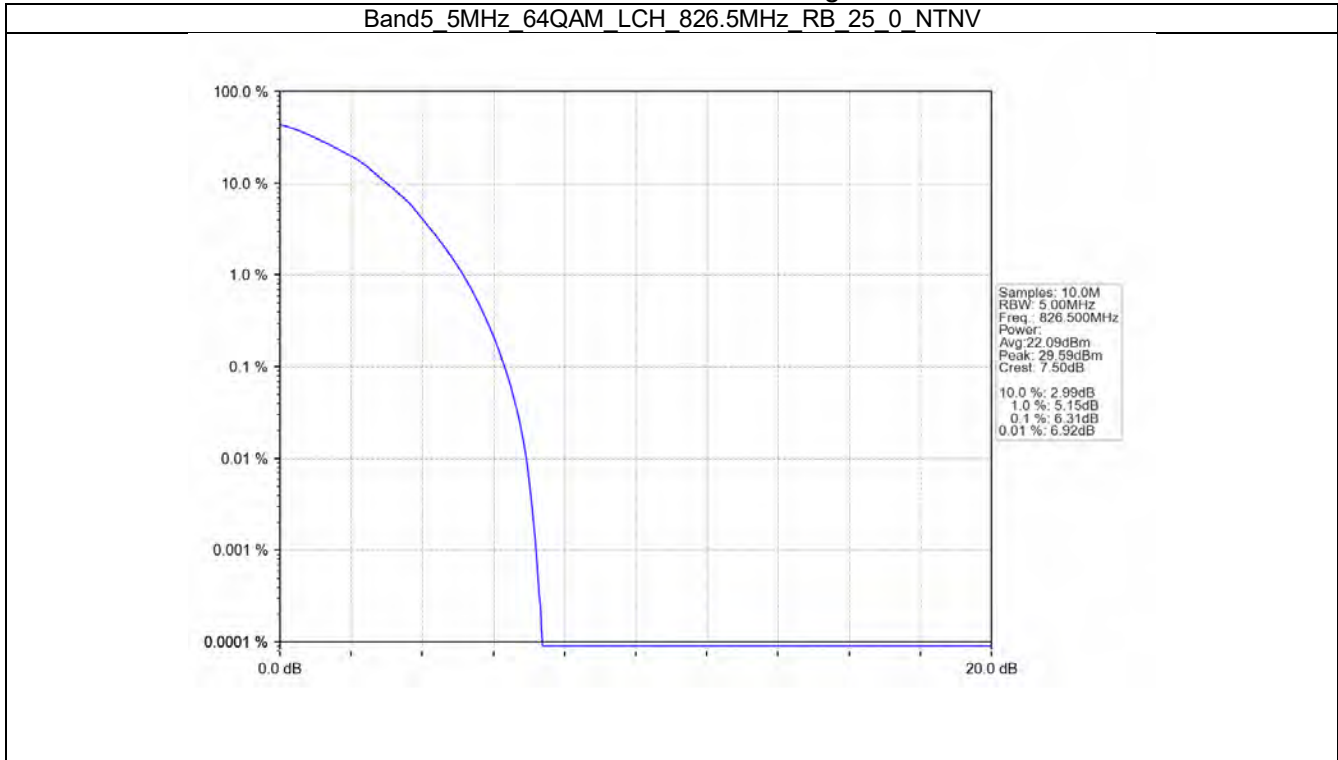
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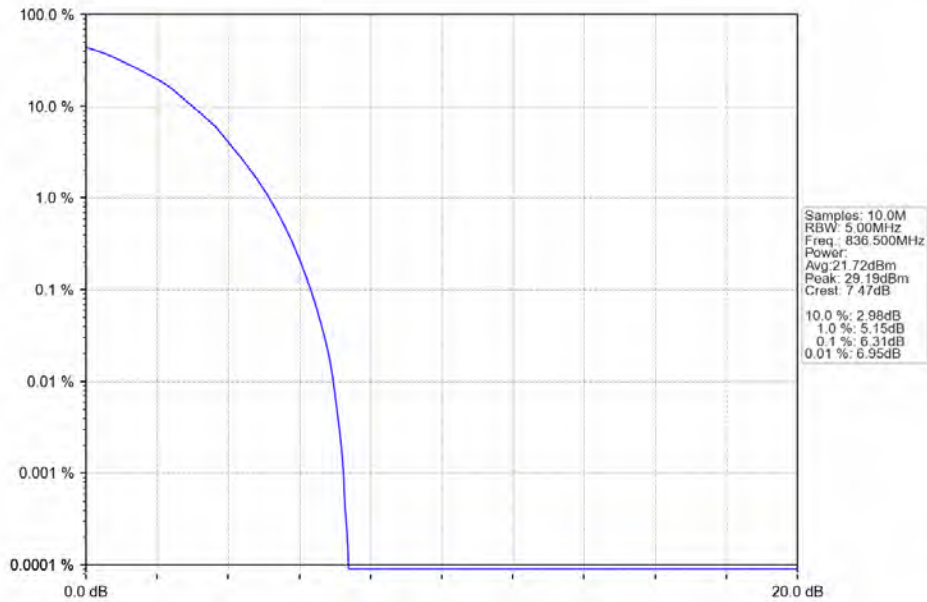
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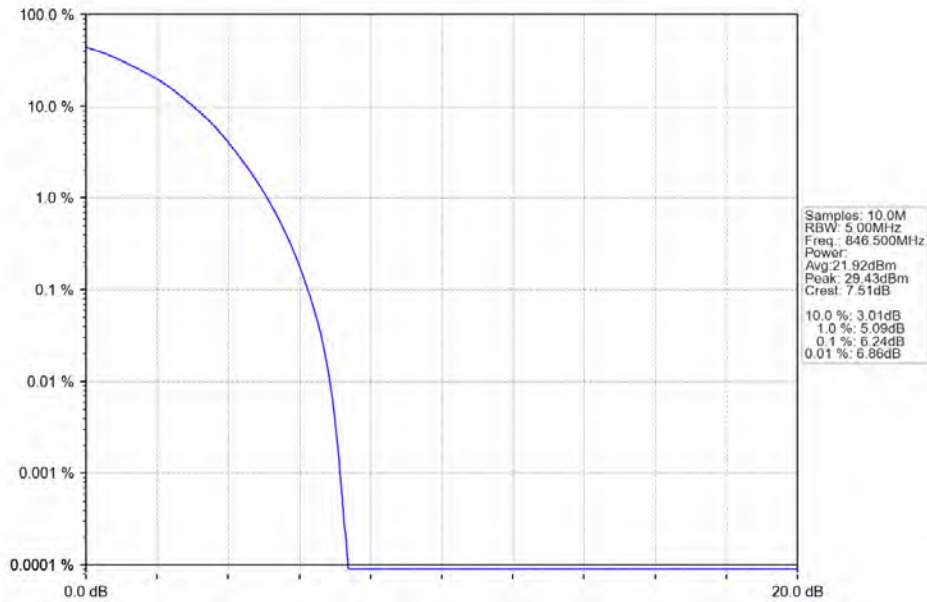
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4.4 B5_10MHz

4.4.1 Test Result

Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	829	50	0	4.99	<=13	Pass
	836.5	50	0	5.03	<=13	Pass
	844	50	0	5.00	<=13	Pass
16QAM	829	50	0	5.81	<=13	Pass
	836.5	50	0	5.86	<=13	Pass
	844	50	0	5.85	<=13	Pass
64QAM	829	50	0	6.29	<=13	Pass
	836.5	50	0	6.32	<=13	Pass
	844	50	0	6.30	<=13	Pass



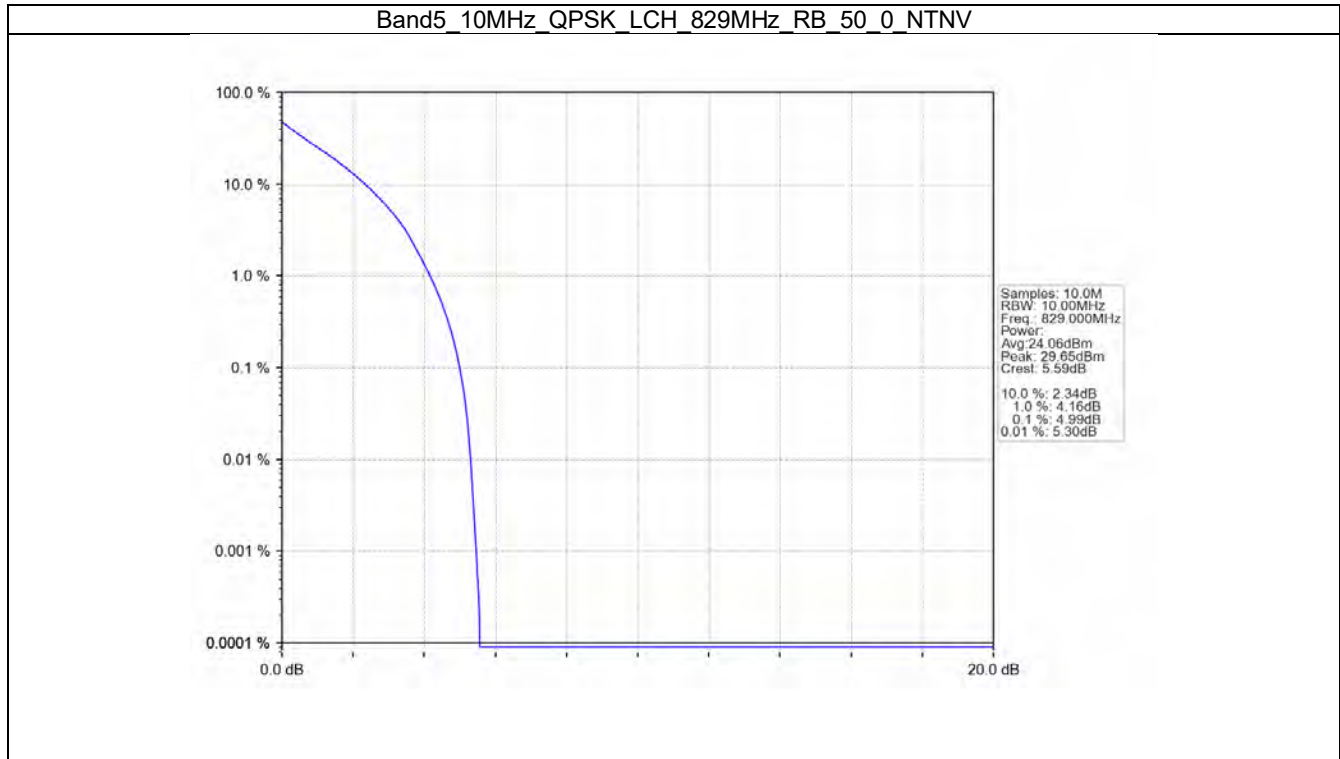
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4.4.2 Test Graph



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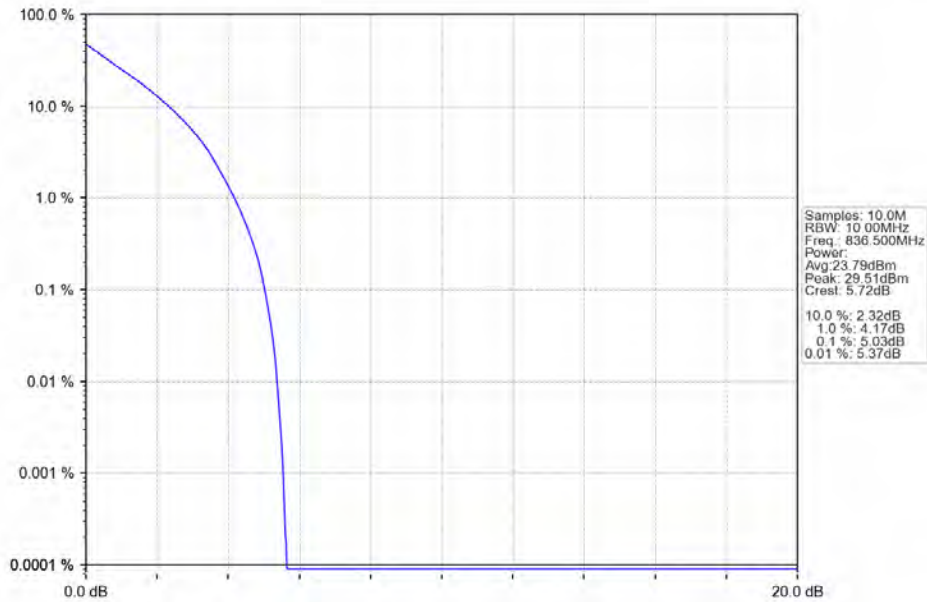
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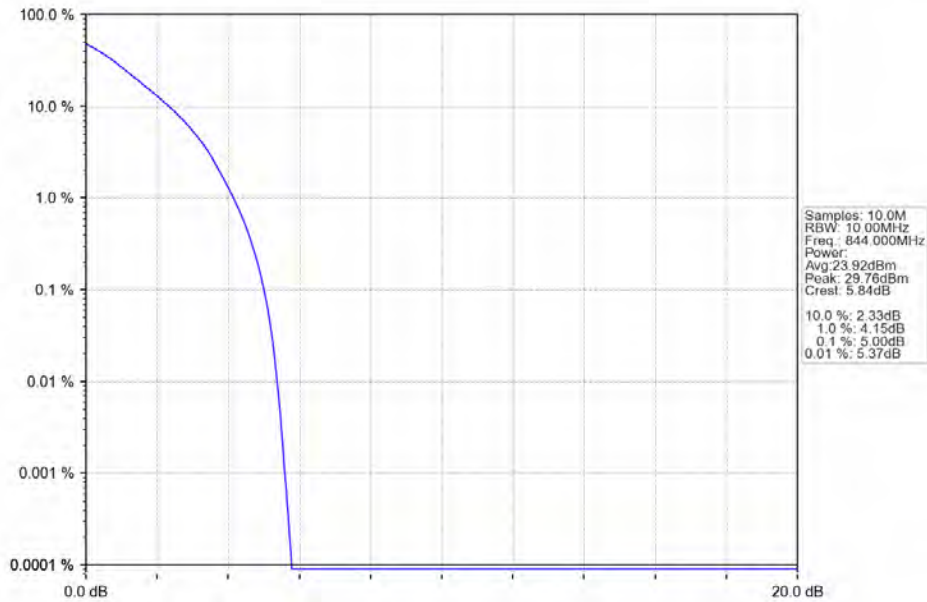
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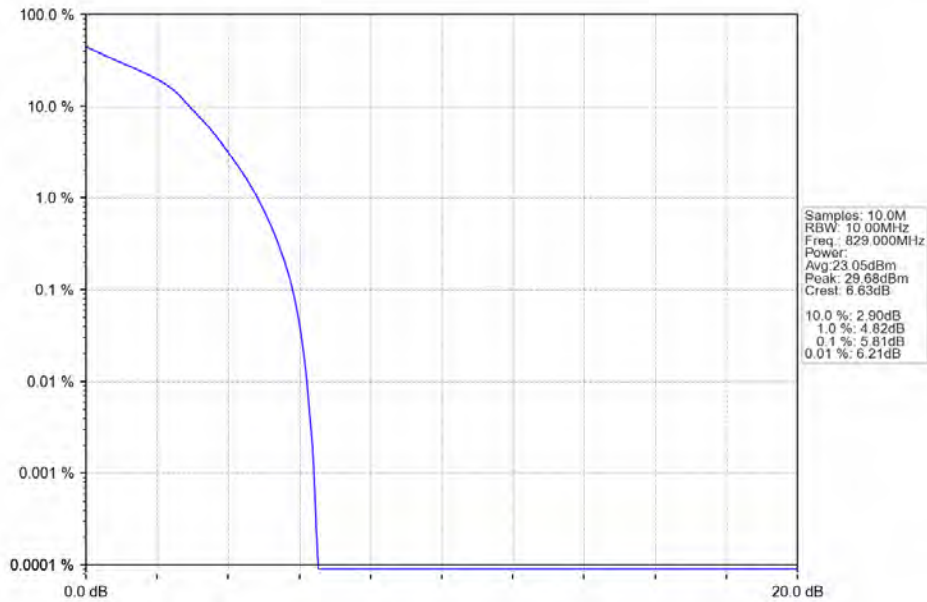
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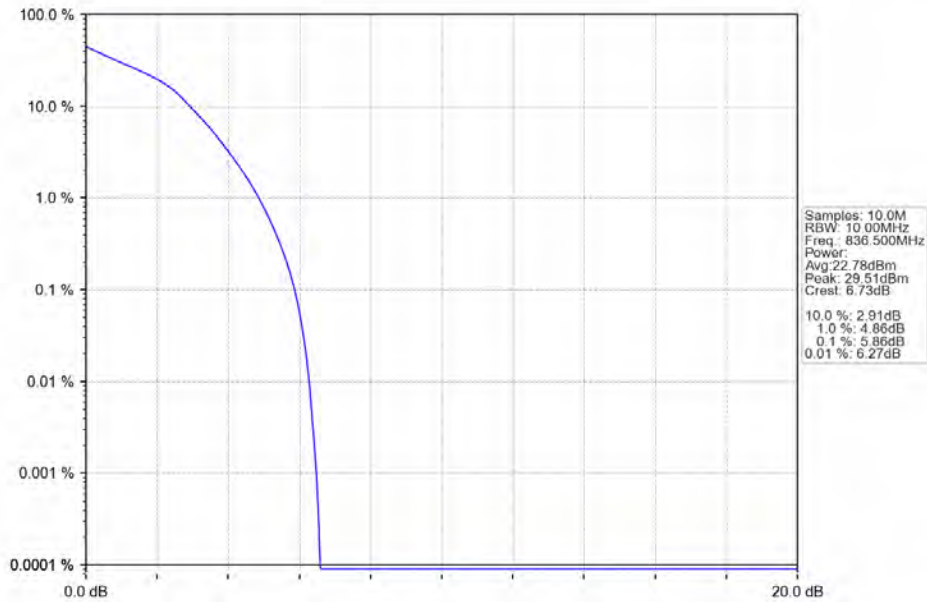
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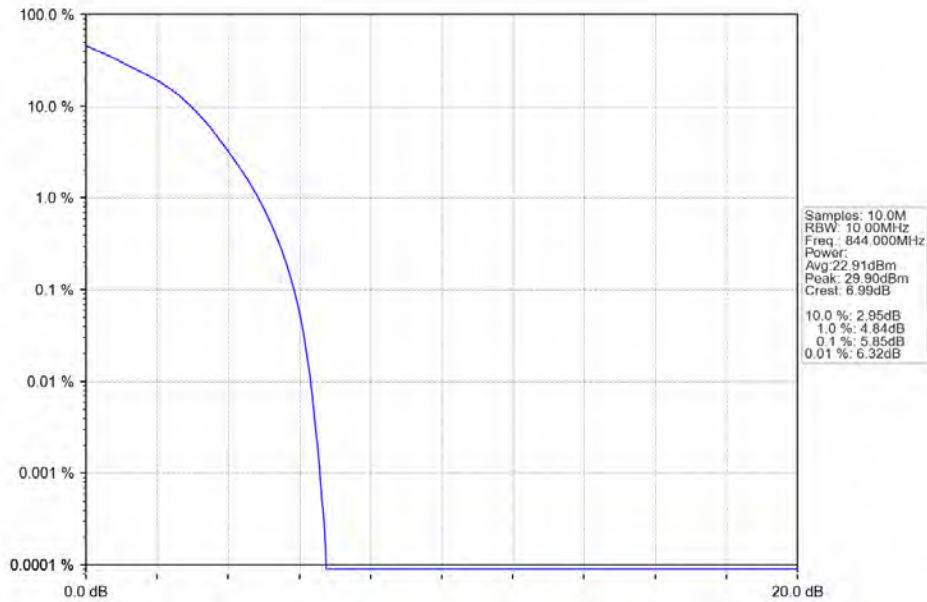
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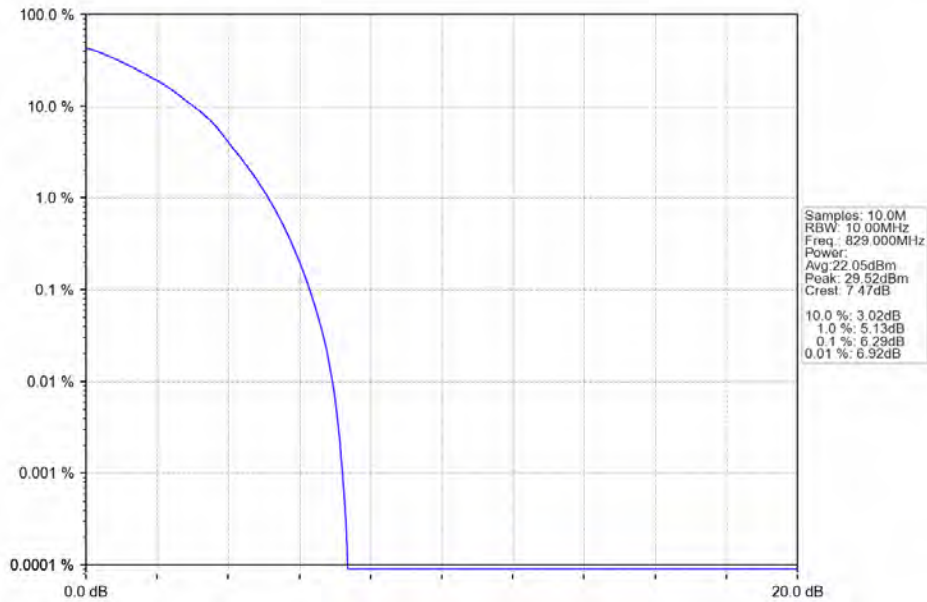
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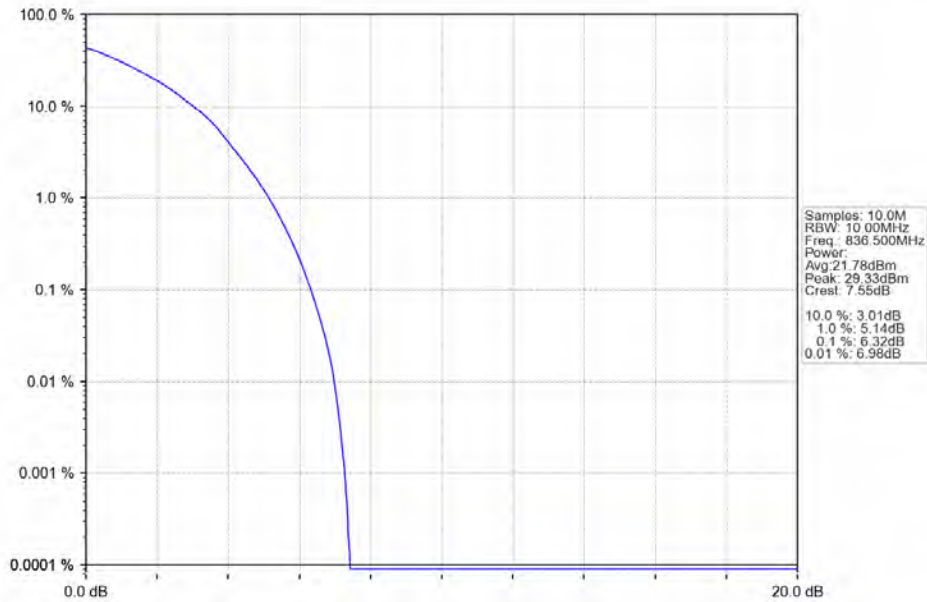
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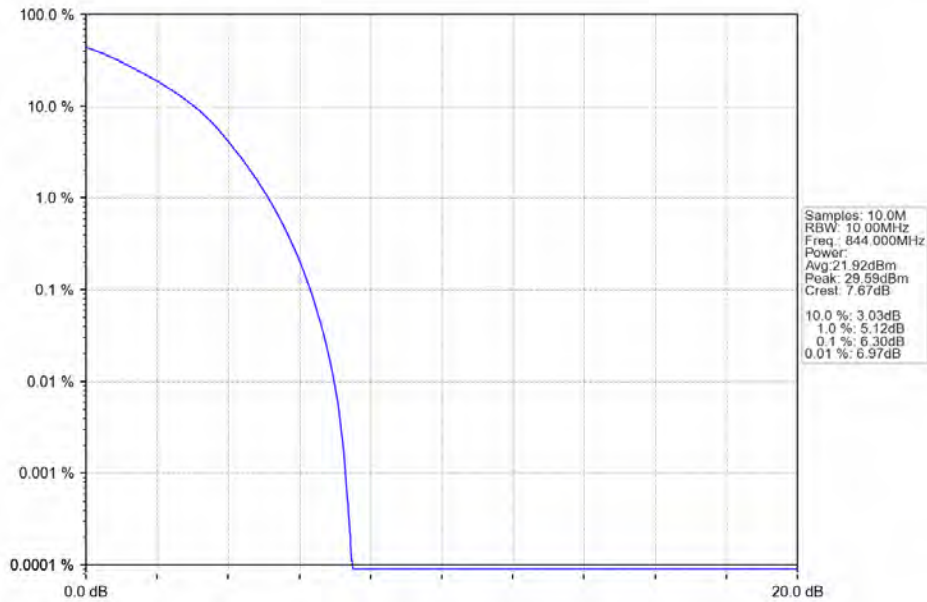
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5. Spurious Emission & Band Edges

5.1 B5_1.4MHz

5.1.1 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	
		6	0	Refer To Test Graph	Pass	
	848.3	1	0	Refer To Test Graph	Pass	
		6	5	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	
		6	0	Refer To Test Graph	Pass	
	848.3	1	0	Refer To Test Graph	Pass	
		6	5	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	
		6	0	Refer To Test Graph	Pass	
	848.3	1	0	Refer To Test Graph	Pass	
		6	5	Refer To Test Graph	Pass	



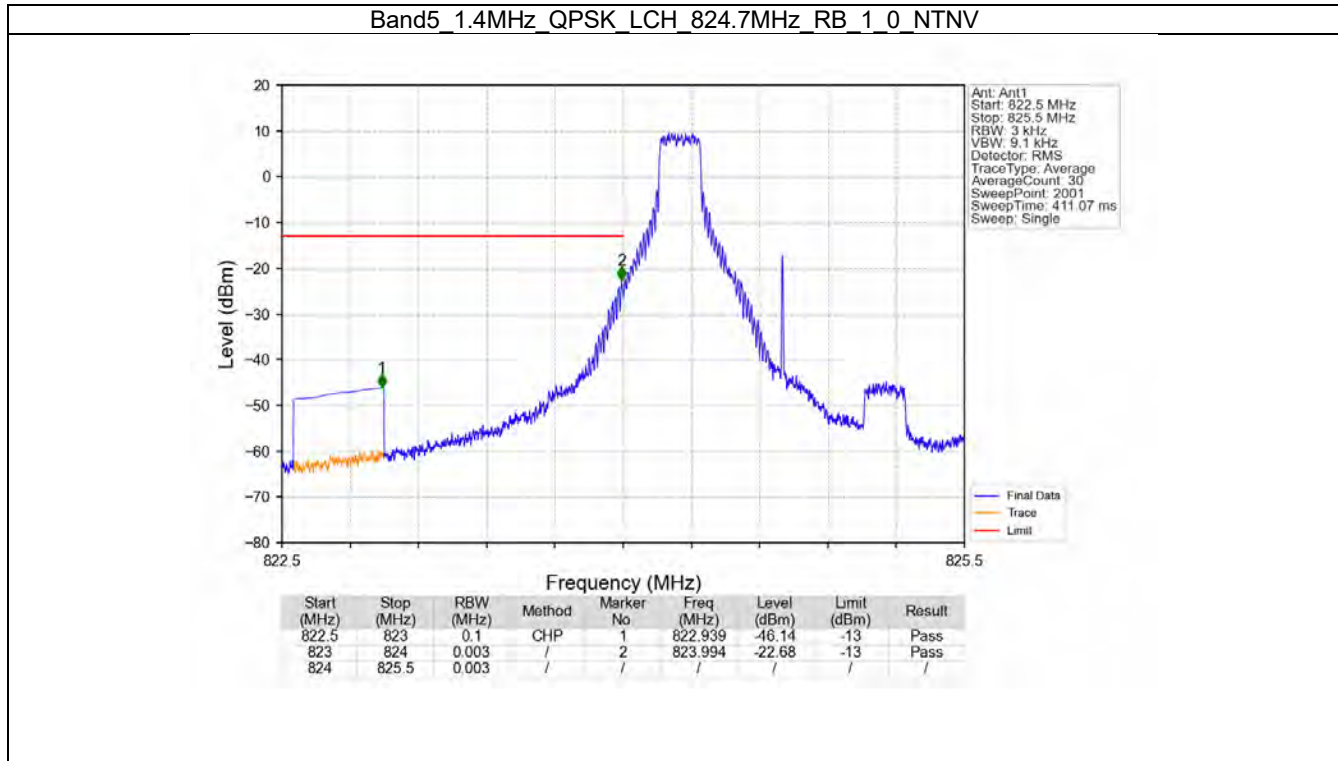
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5.1.2 Test Graph



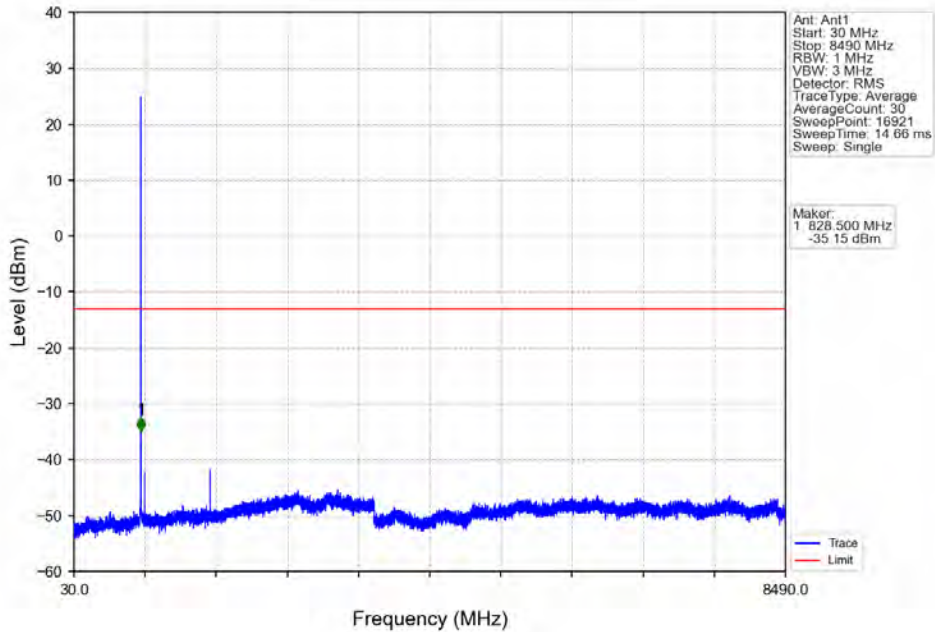
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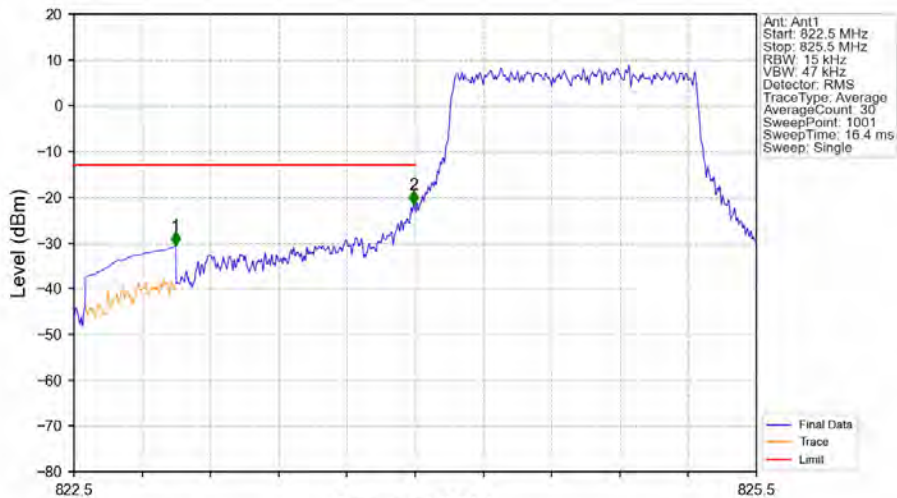
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Band5_1.4MHz_QPSK_LCH_824.7MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.947	-30.67	-13	Pass
823	824	0.015	/	2	823.994	-21.60	-13	Pass
824	825.5	0.015	/	/	/	/	/	/



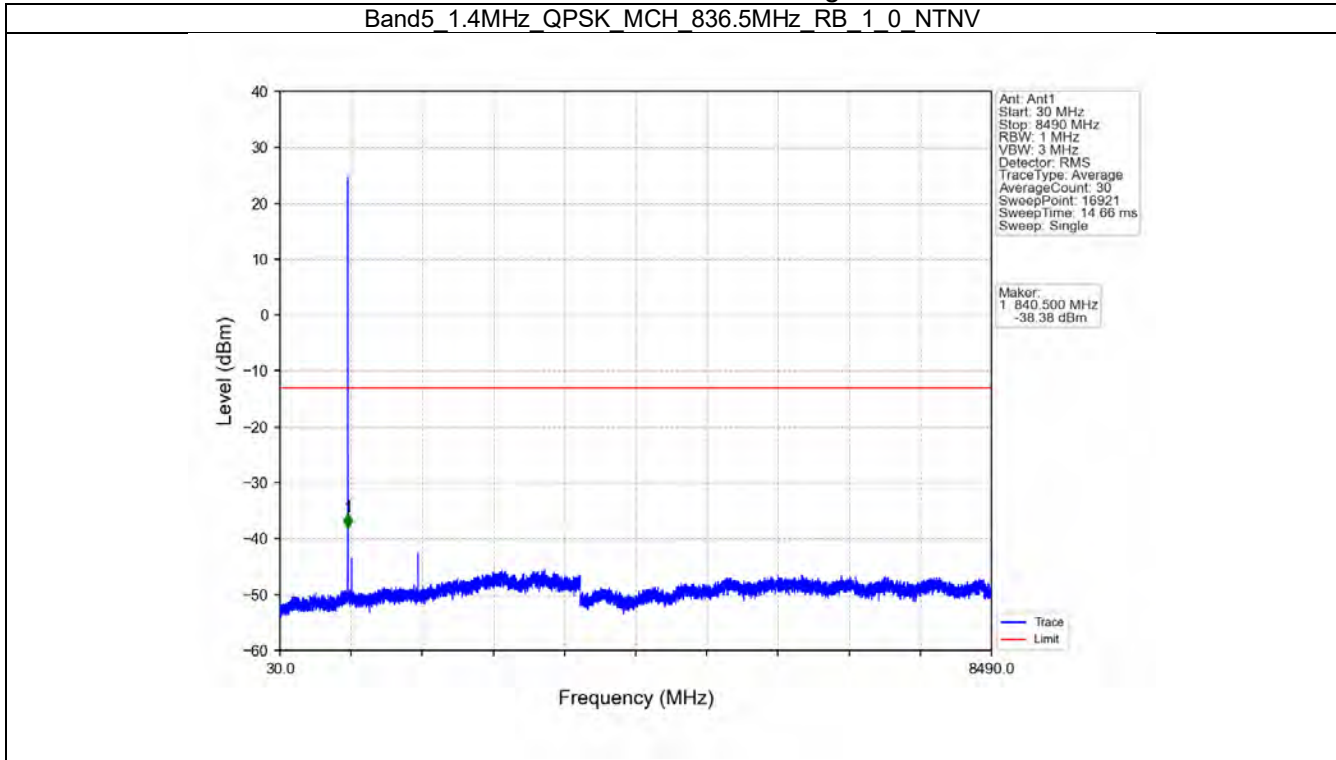
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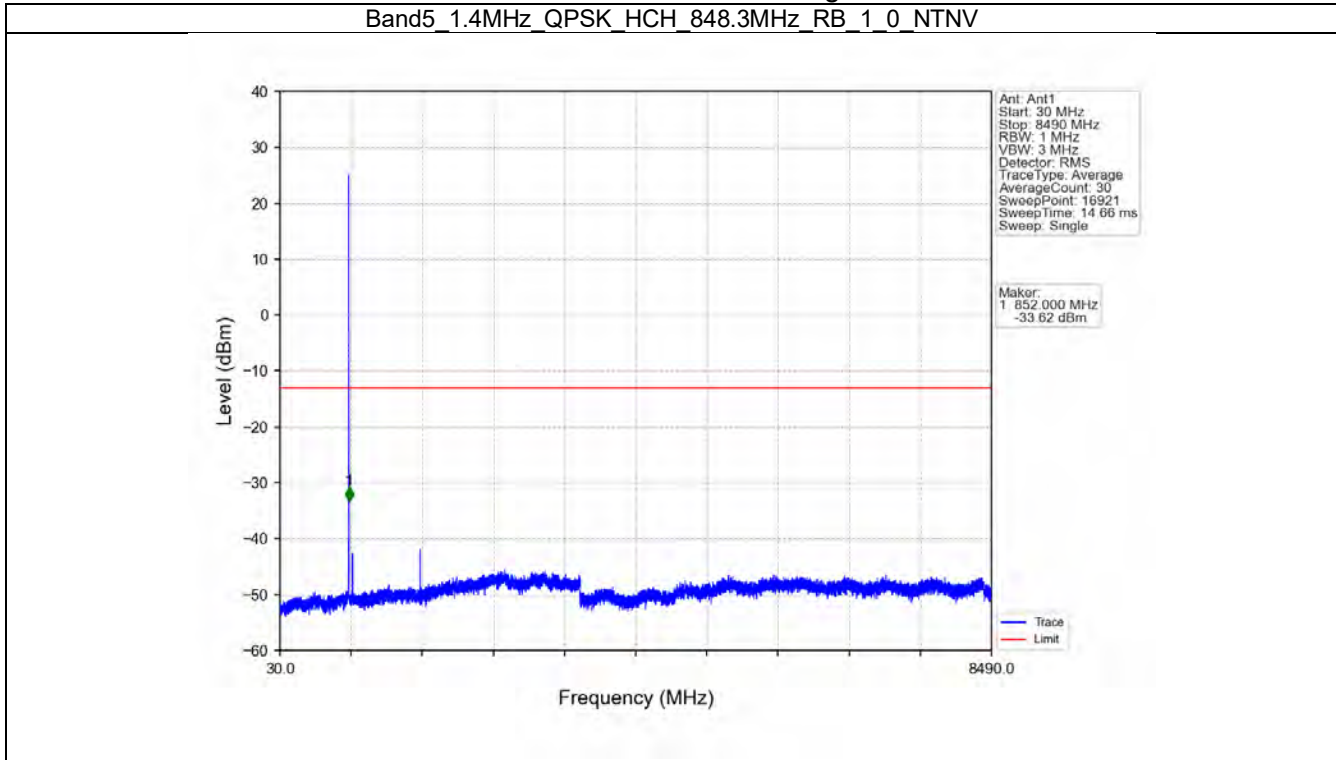
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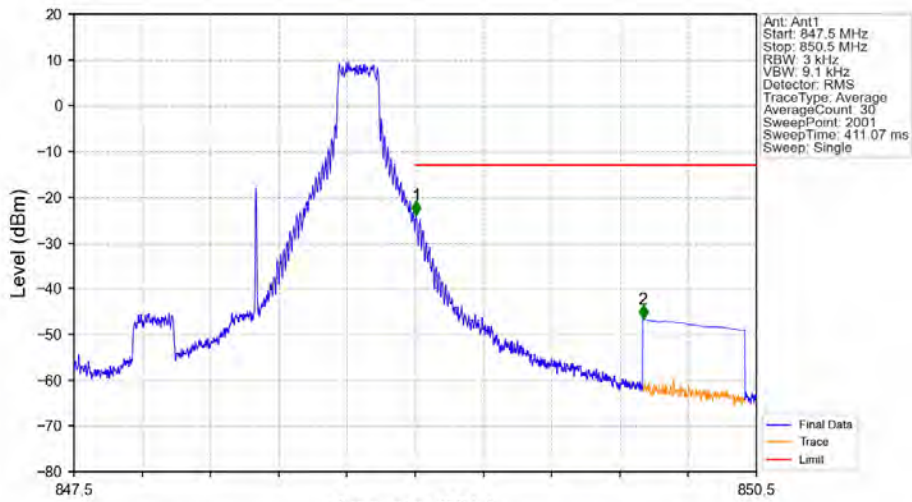
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Band5 1.4MHz QPSK HCH 848.3MHz RB 1.5 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.005	-23.90	-13	Pass
850	850.5	0.1	CHP	2	850.002	-46.66	-13	Pass



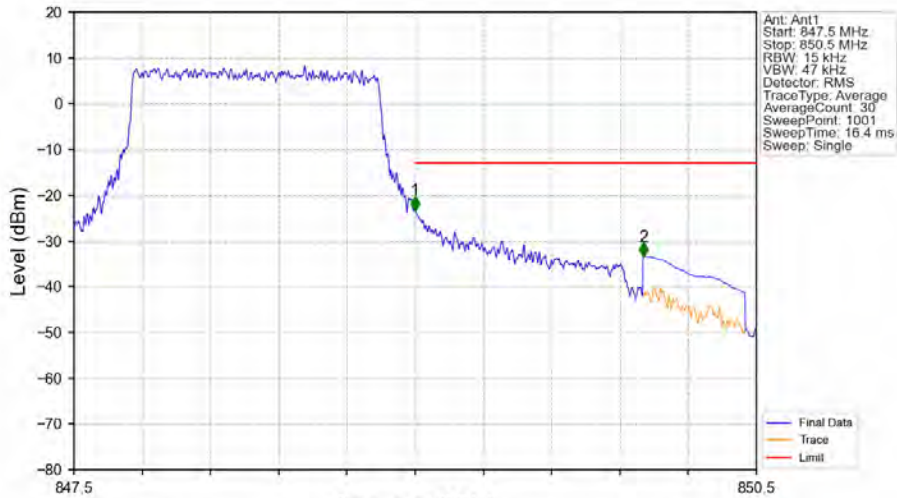
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Band5 1.4MHz QPSK HCH 848.3MHz RB 6_0 NTN



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.015	/	/	/	/	/	/
849	850	0.015	/	1	849.000	-23.31	-13	Pass
850	850.5	0.1	CHP	2	850.005	-33.40	-13	Pass



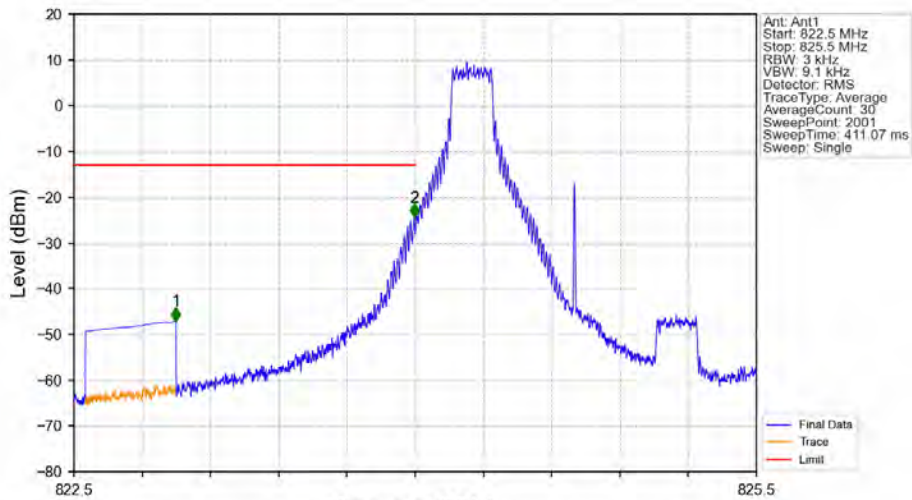
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Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.948	-47.13	-13	Pass
823	824	0.003	/	2	823.995	-24.46	-13	Pass
824	825.5	0.003	/	/	/	/	/	/



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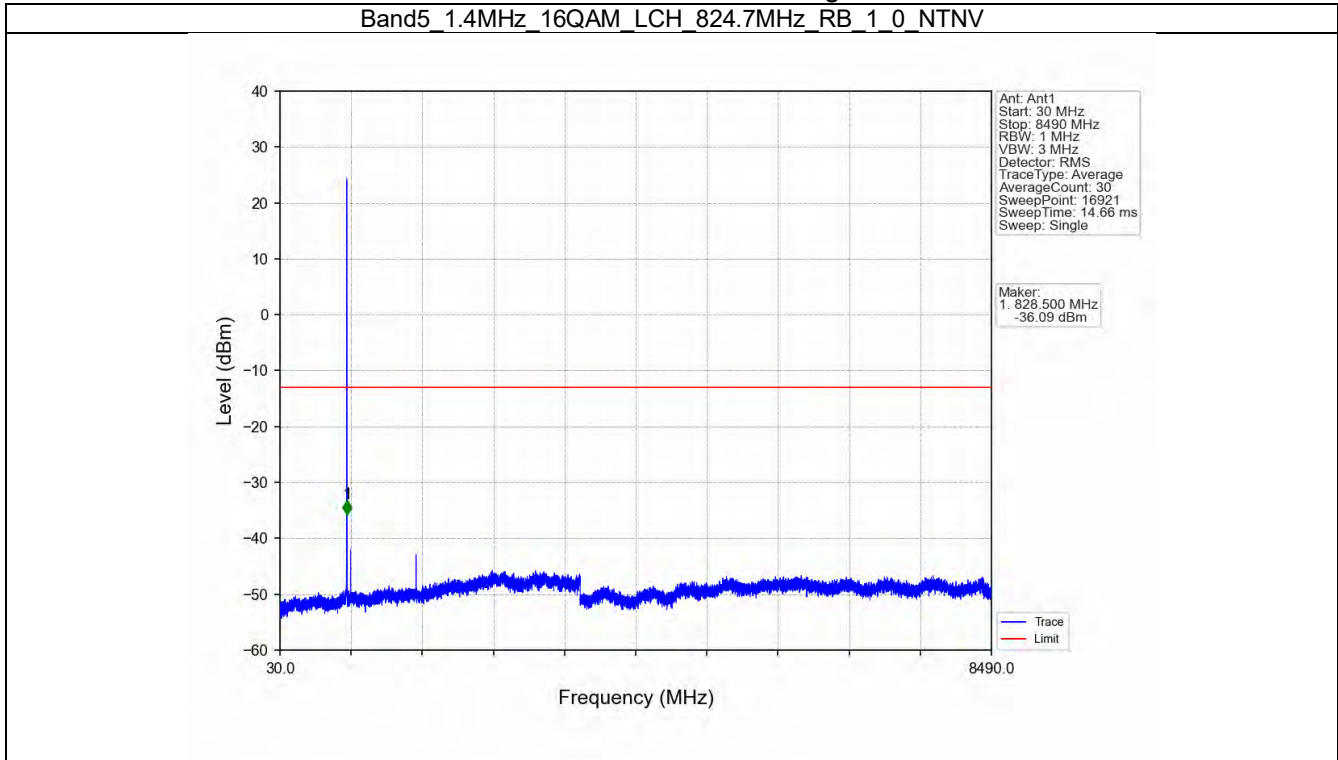
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Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_1_0_NTNV



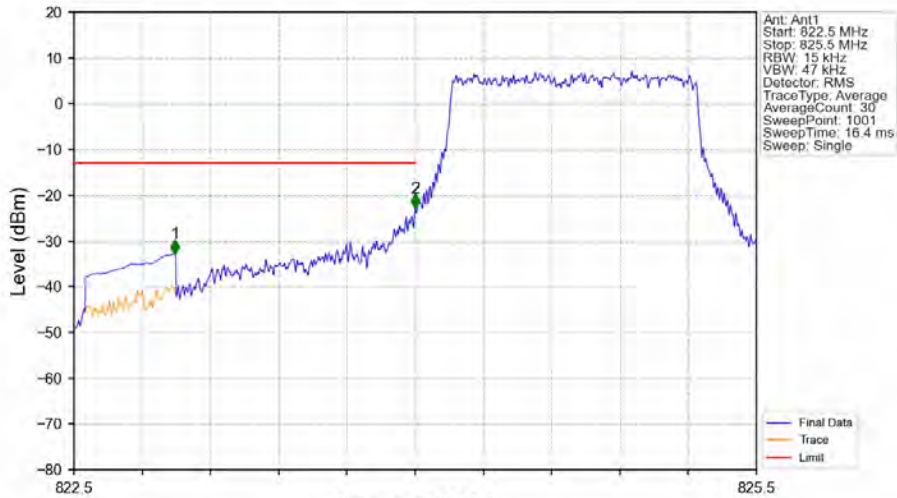
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Band5_1.4MHz_16QAM_LCH_824.7MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.944	-32.82	-13	Pass
823	824	0.015	/	2	824.000	-22.83	-13	Pass
824	825.5	0.015	/	/	/	/	/	/



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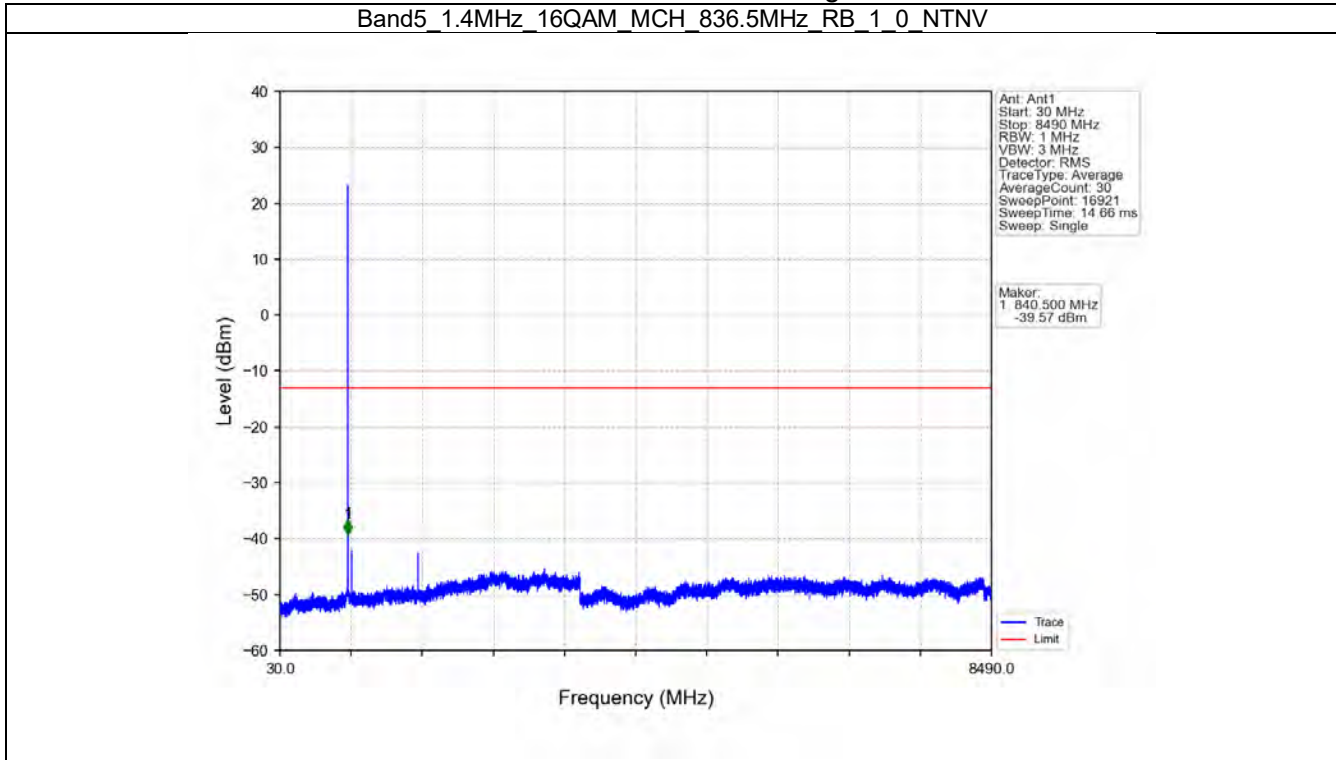
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Band5_1.4MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV



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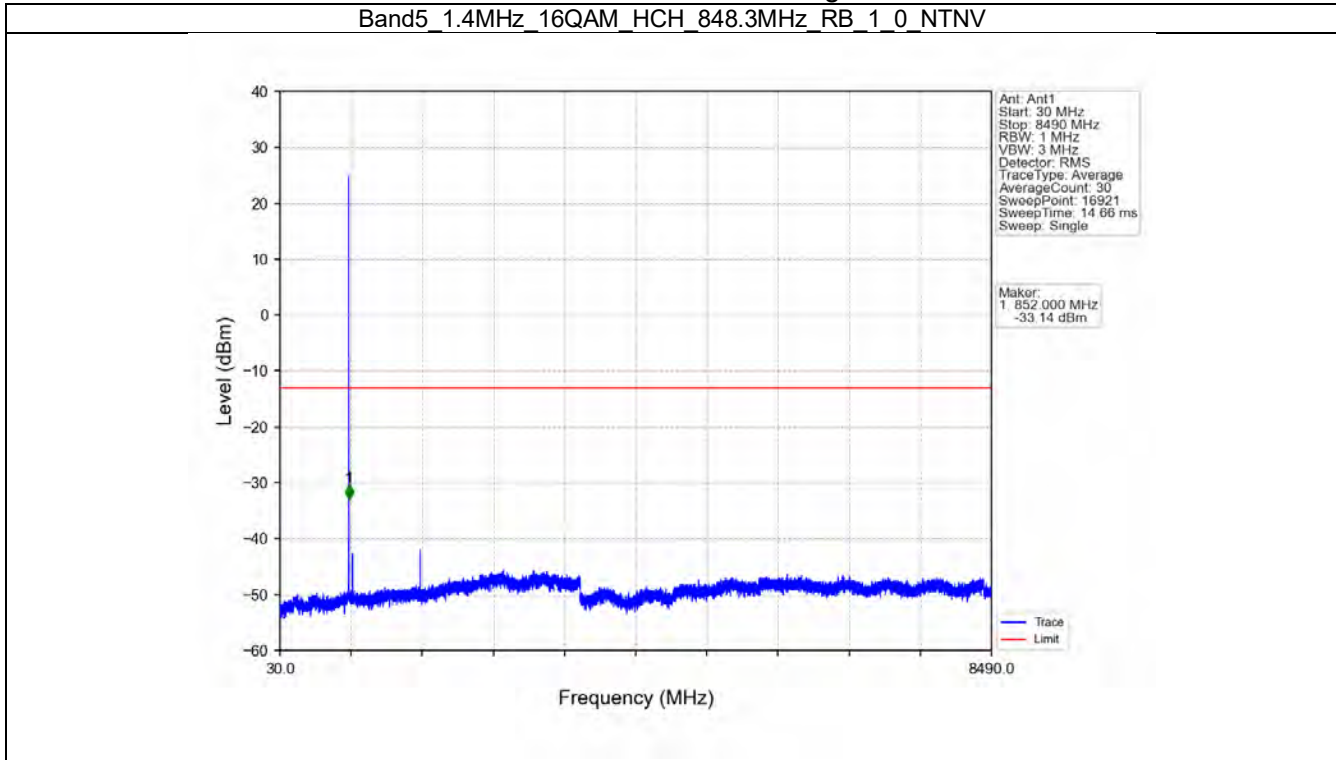
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Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_1_0_NTNV



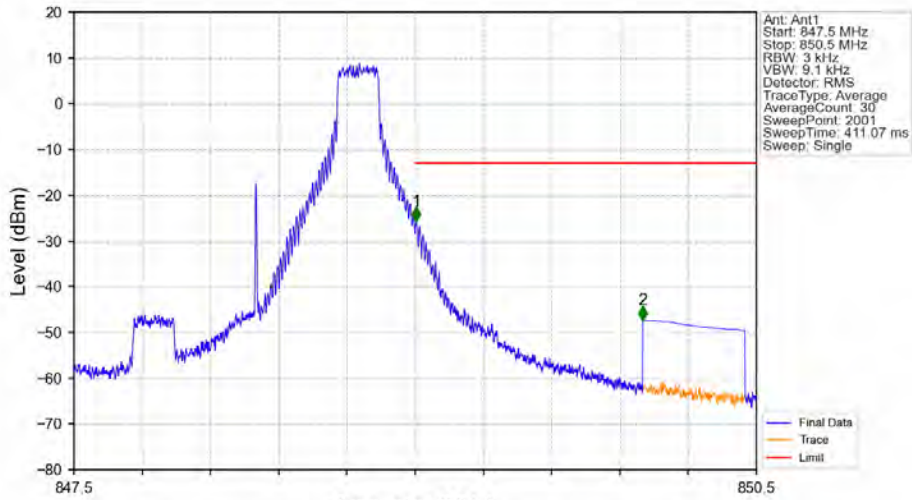
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Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_1_5_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.005	-25.72	-13	Pass
850	850.5	0.1	CHP	2	850.000	-47.30	-13	Pass



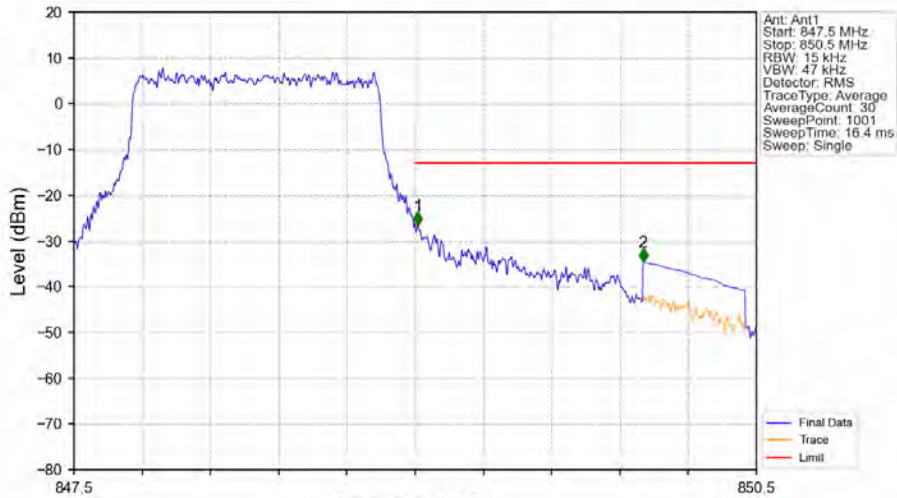
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Band5_1.4MHz_16QAM_HCH_848.3MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.015	/	/	/	/	/	/
849	850	0.015	/	1	849.012	-26.69	-13	Pass
850	850.5	0.1	CHP	2	850.002	-34.71	-13	Pass



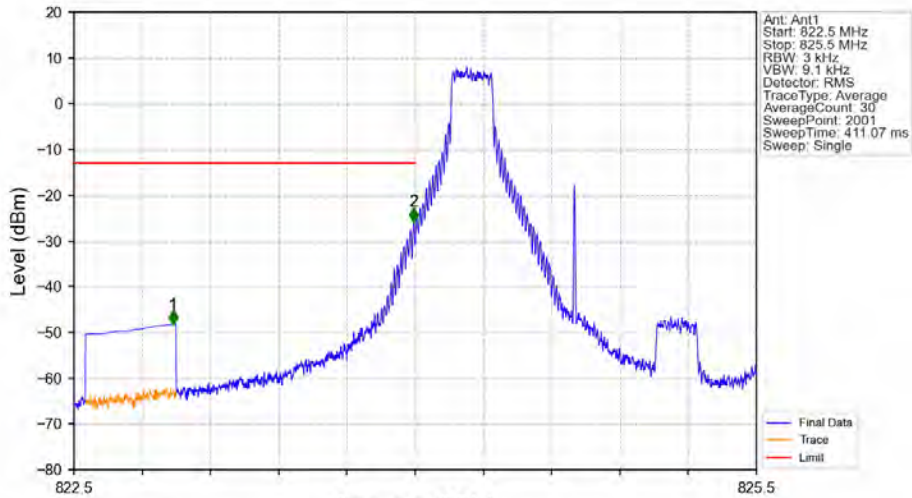
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Band5_1.4MHz_64QAM_LCH_824.7MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
822.5	823	0.1	CHP	1	822.935	-48.20	-13	Pass
823	824	0.003	/	2	823.994	-25.78	-13	Pass
824	825.5	0.003	/	/	/	/	/	/



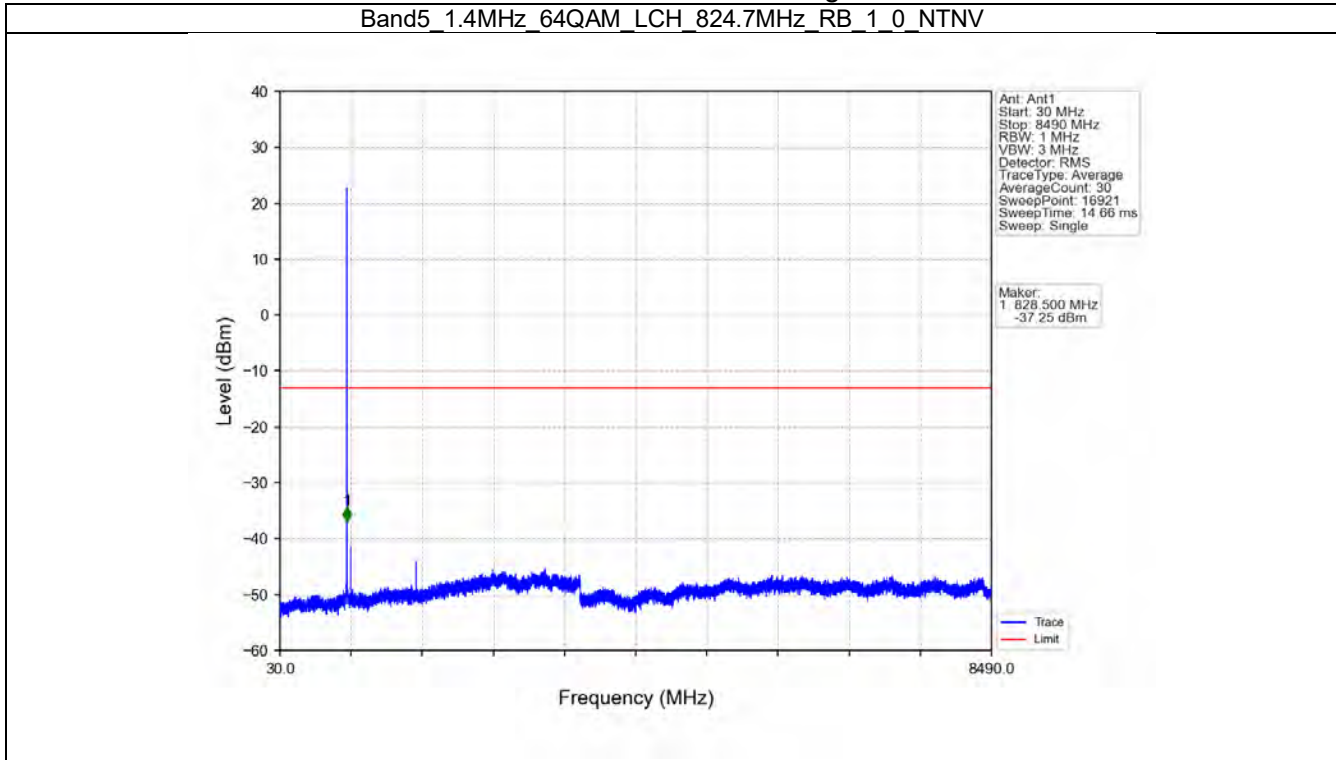
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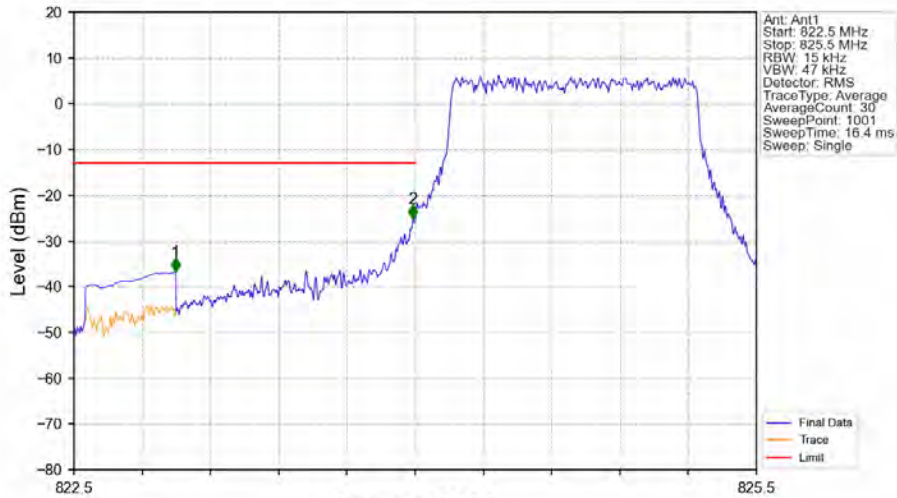
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Band5_1.4MHz_64QAM_LCH_824.7MHz_RB_6_0_NTNV



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	-36.78	-13	Pass
823	824	0.015	/	2	823.991	-25.13	-13	Pass
824	825.5	0.015	/	/	/	/	/	/



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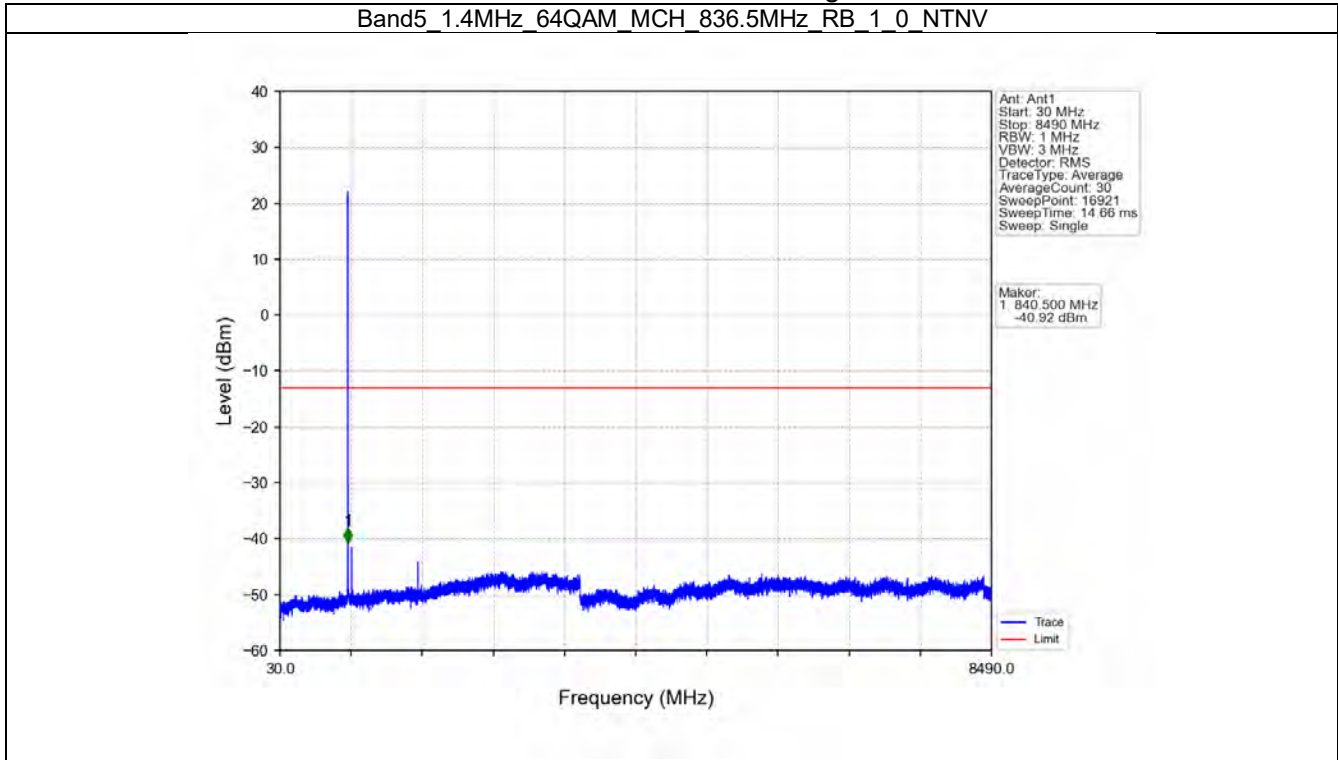
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Band5_1.4MHz_64QAM_MCH_836.5MHz_RB_1_0_NTNV



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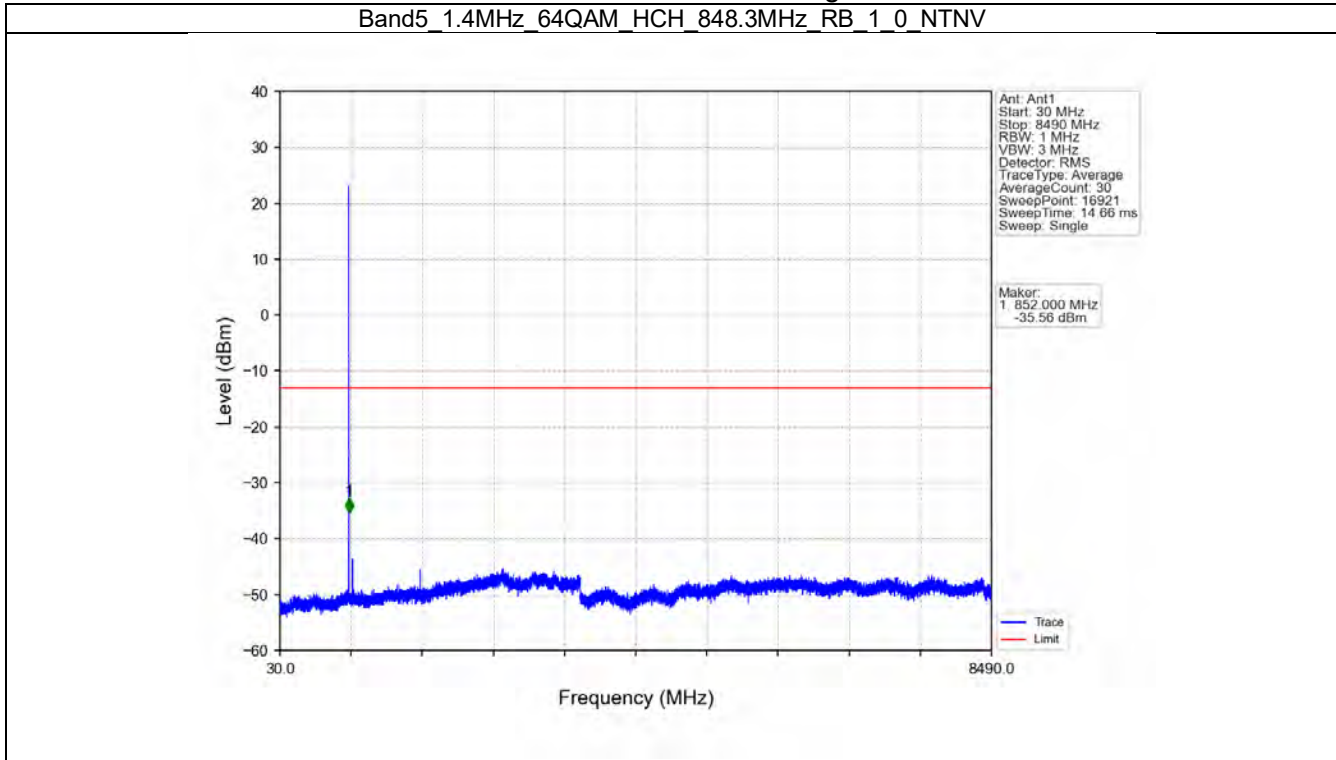
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Band5_1.4MHz_64QAM_HCH_848.3MHz_RB_1_0_NTNV



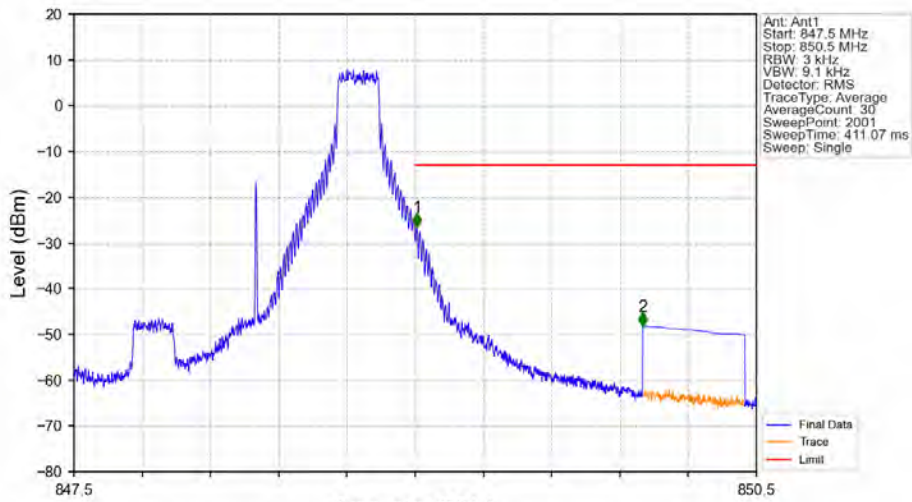
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Band5_1.4MHz_64QAM_HCH_848.3MHz_RB_1_5_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.003	/	1	849.008	-26.56	-13	Pass
849	850	0.003	/	1	849.008	-26.56	-13	Pass
850	850.5	0.1	CHP	2	850.000	-48.20	-13	Pass



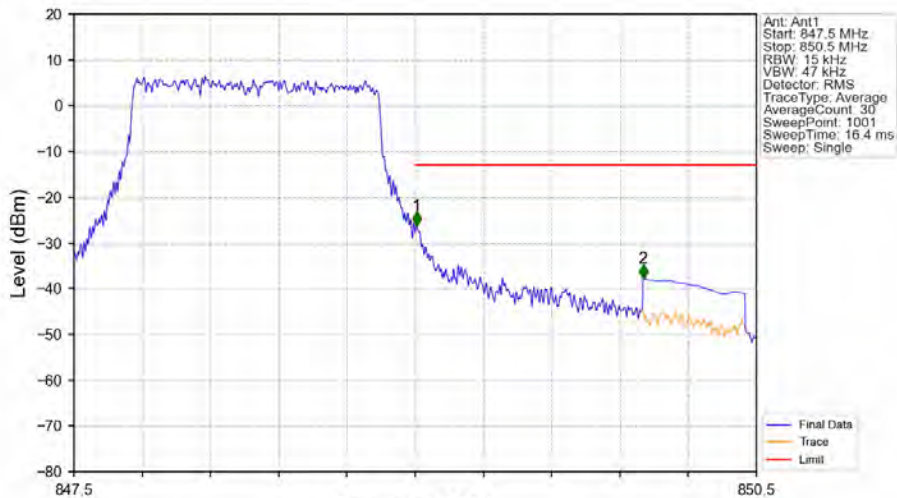
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Band5_1.4MHz_64QAM_HCH_848.3MHz_RB_6_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.015	/	/	/	/	/	/
849	850	0.015	/	1	849.006	-26.17	-13	Pass
850	850.5	0.1	CHP	2	850.002	-37.78	-13	Pass



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5.2 B5_3MHz

5.2.1 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
		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
		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
		1	0	Refer To Test Graph		Pass
			14	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass

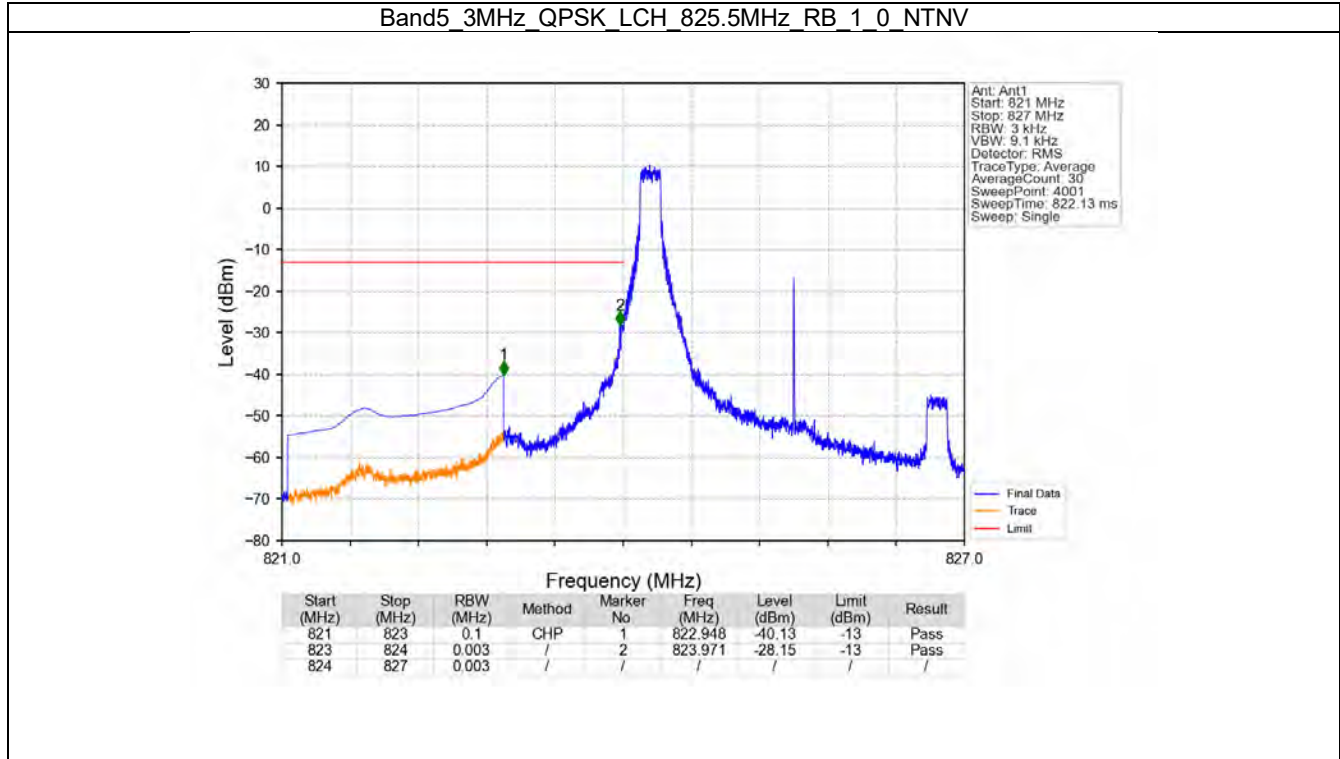


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5.2.2 Test Graph



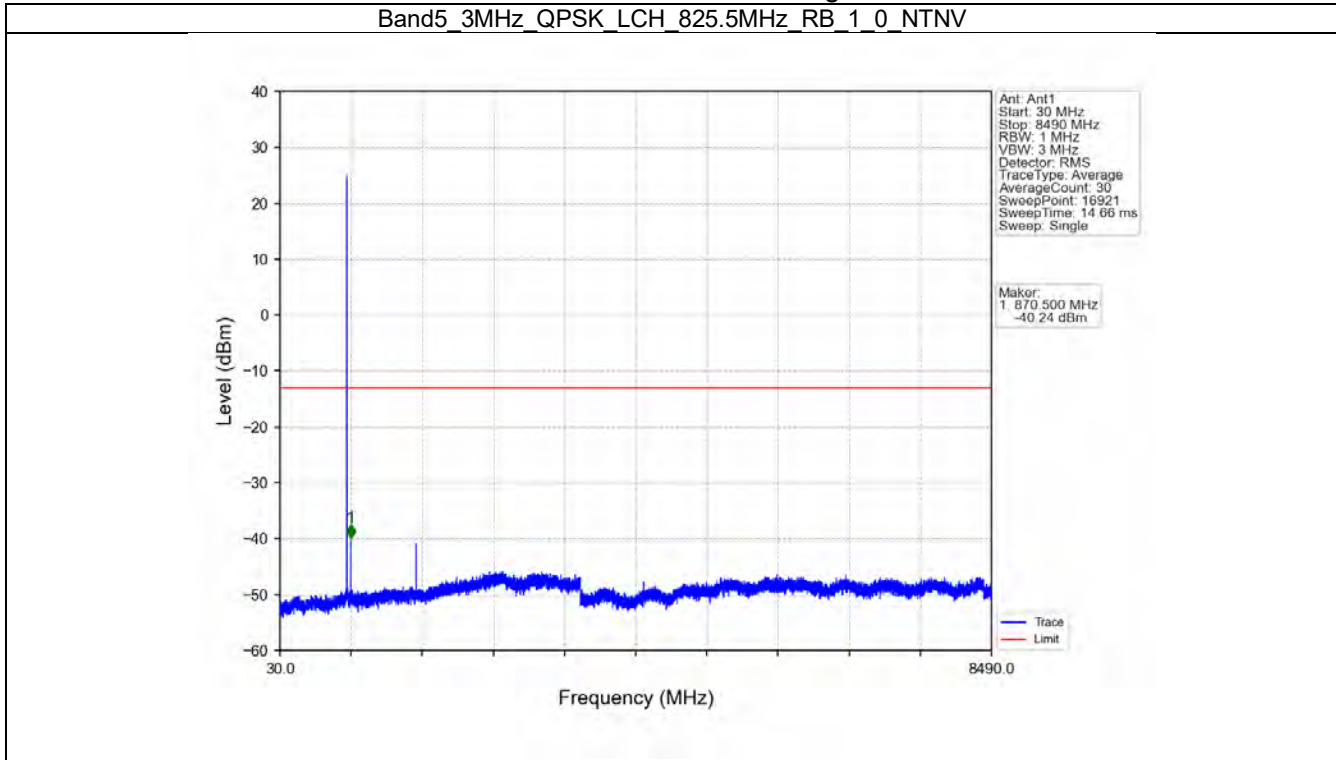
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Band5_3MHz_QPSK_LCH_825.5MHz_RB_1_0_NTNV



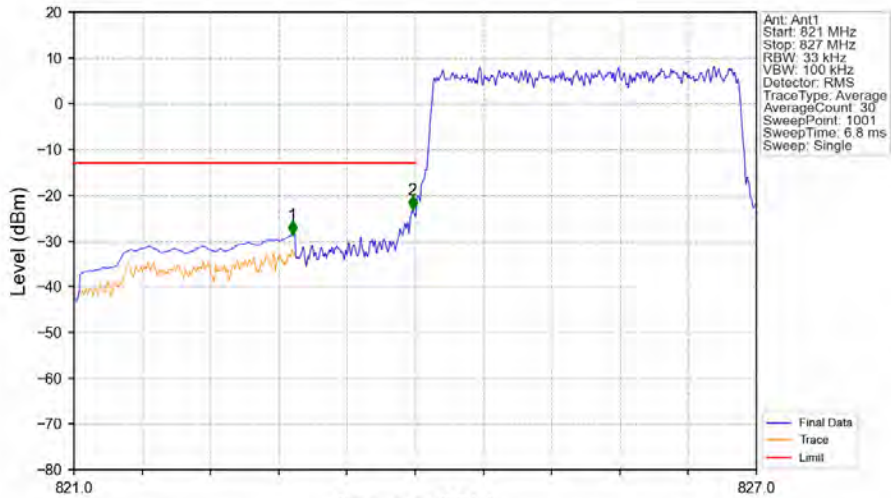
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Band5_3MHz_QPSK_LCH_825.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.920	-28.73	-13	Pass
823	824	0.033	/	2	823.976	-23.15	-13	Pass
824	827	0.033	/	/	/	/	/	/



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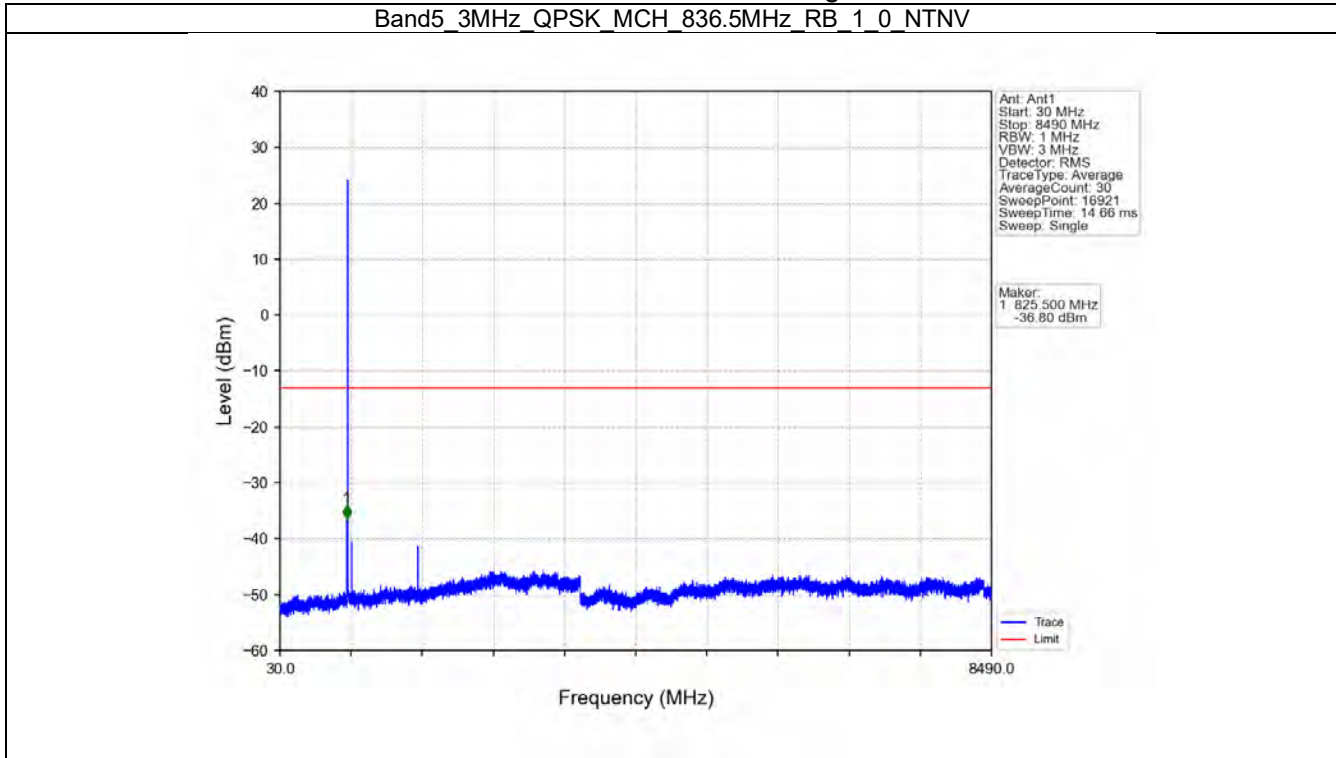
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Band5_3MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



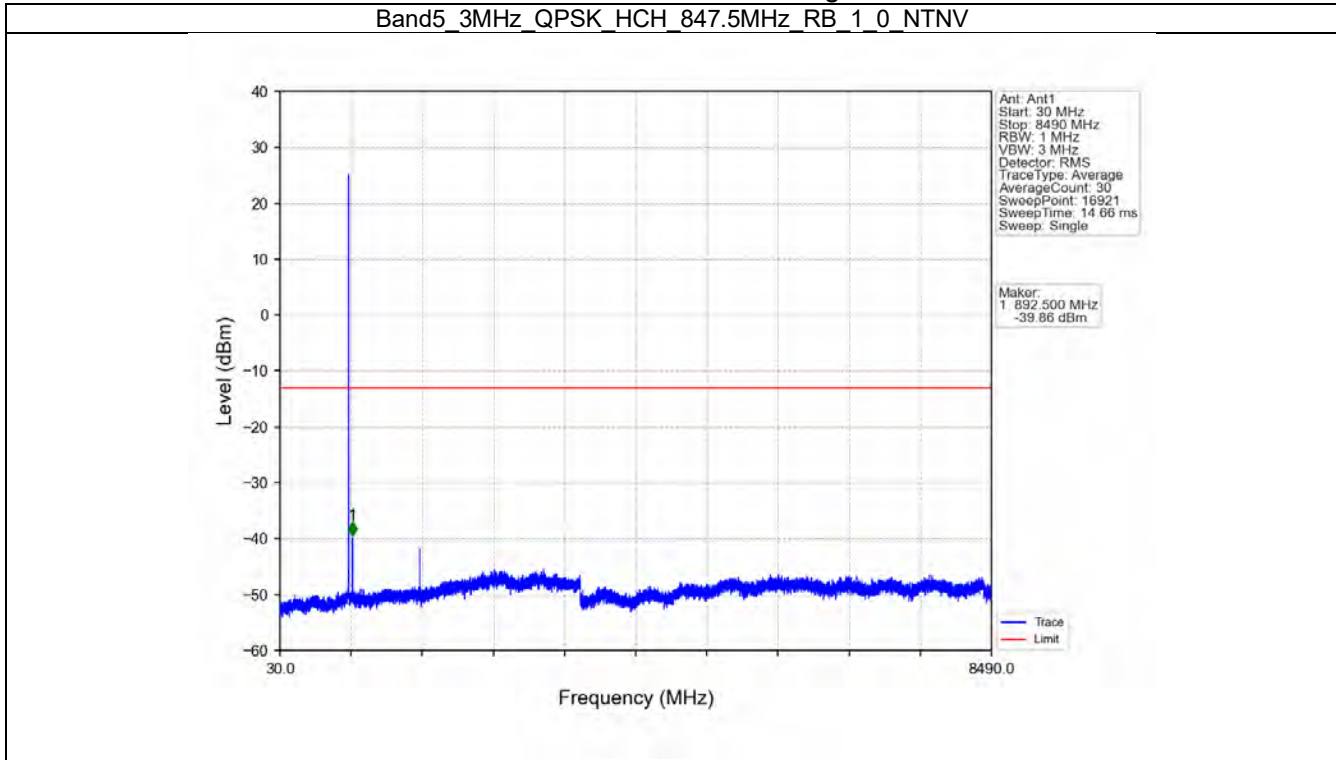
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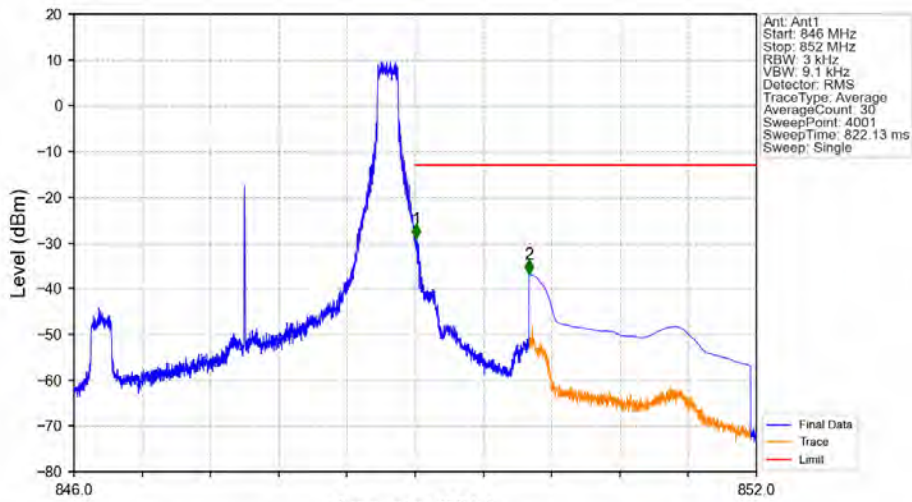
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Band5_3MHz_QPSK_HCH_847.5MHz_RB_1_14_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.010	-29.01	-13	Pass
850	852	0.1	CHP	2	850.002	-36.82	-13	Pass



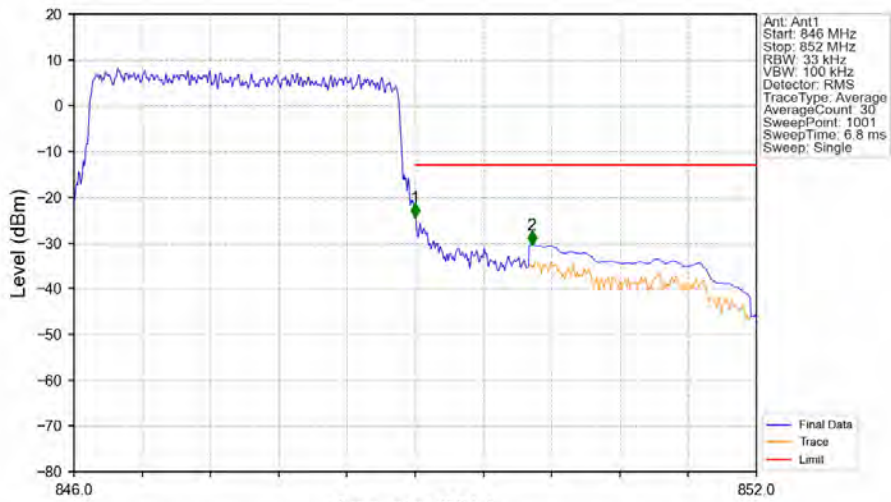
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Band5_3MHz_QPSK_HCH_847.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.033	/	/	/	/	/	/
849	850	0.033	/	1	849.000	-24.51	-13	Pass
850	852	0.1	CHP	2	850.026	-30.46	-13	Pass



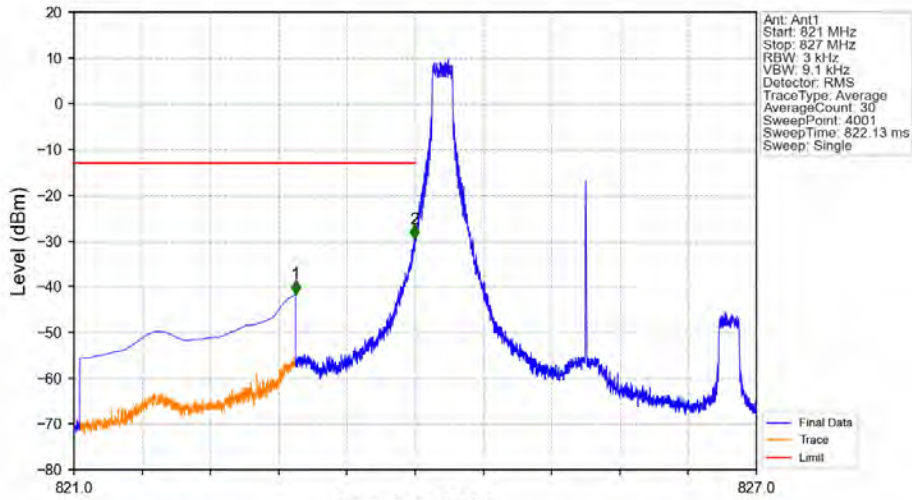
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Band5_3MHz_16QAM_LCH_825.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.948	-41.65	-13	Pass
823	824	0.003	/	2	823.995	-29.54	-13	Pass
824	827	0.003	/	/	/	/	/	/



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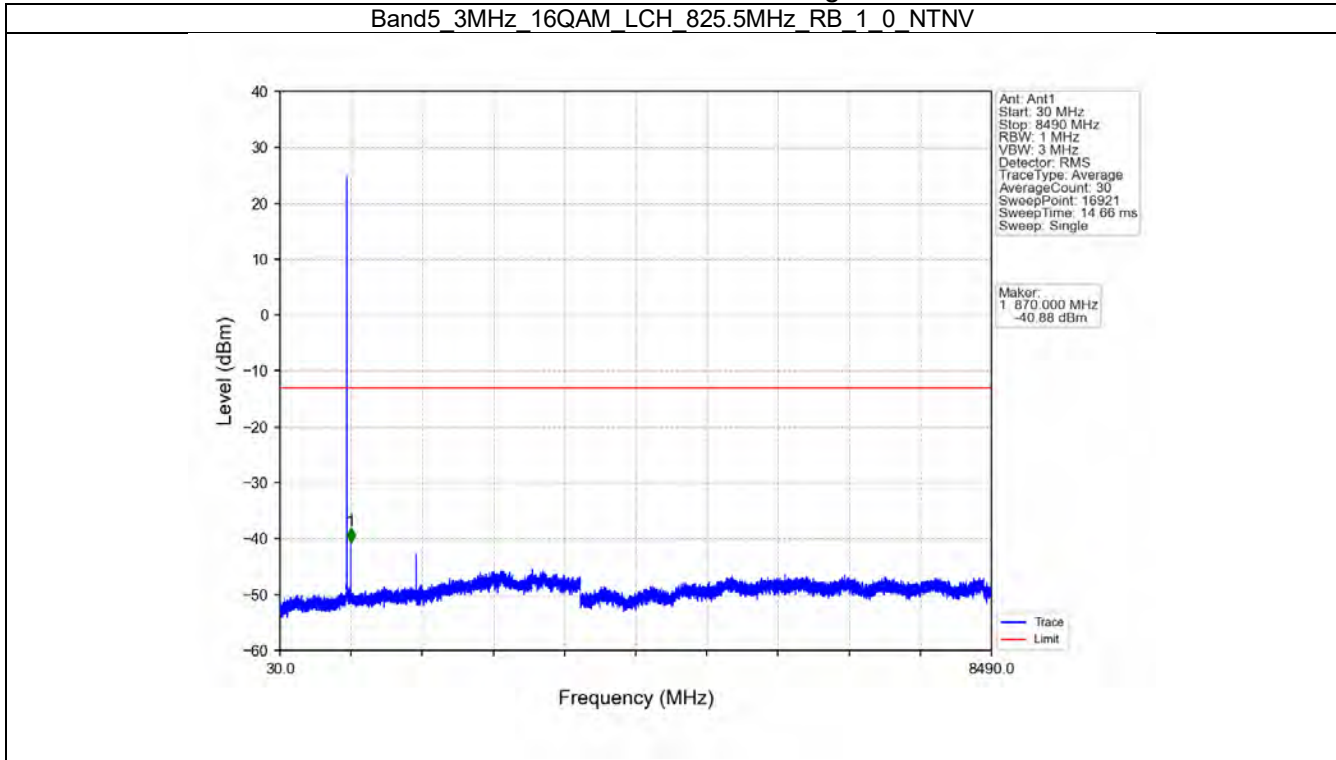
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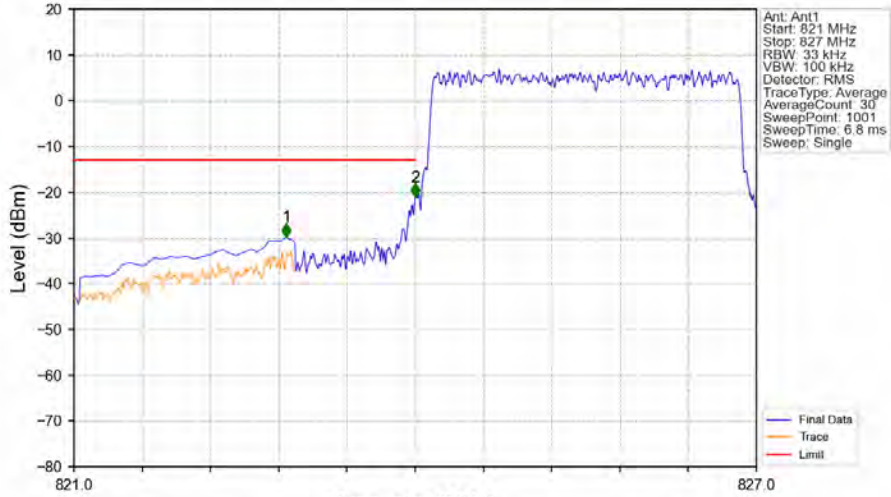
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Band5_3MHz_16QAM_LCH_825.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.866	-29.84	-13	Pass
823	824	0.033	/	2	824.000	-21.08	-13	Pass
824	827	0.033	/	/	/	/	/	/



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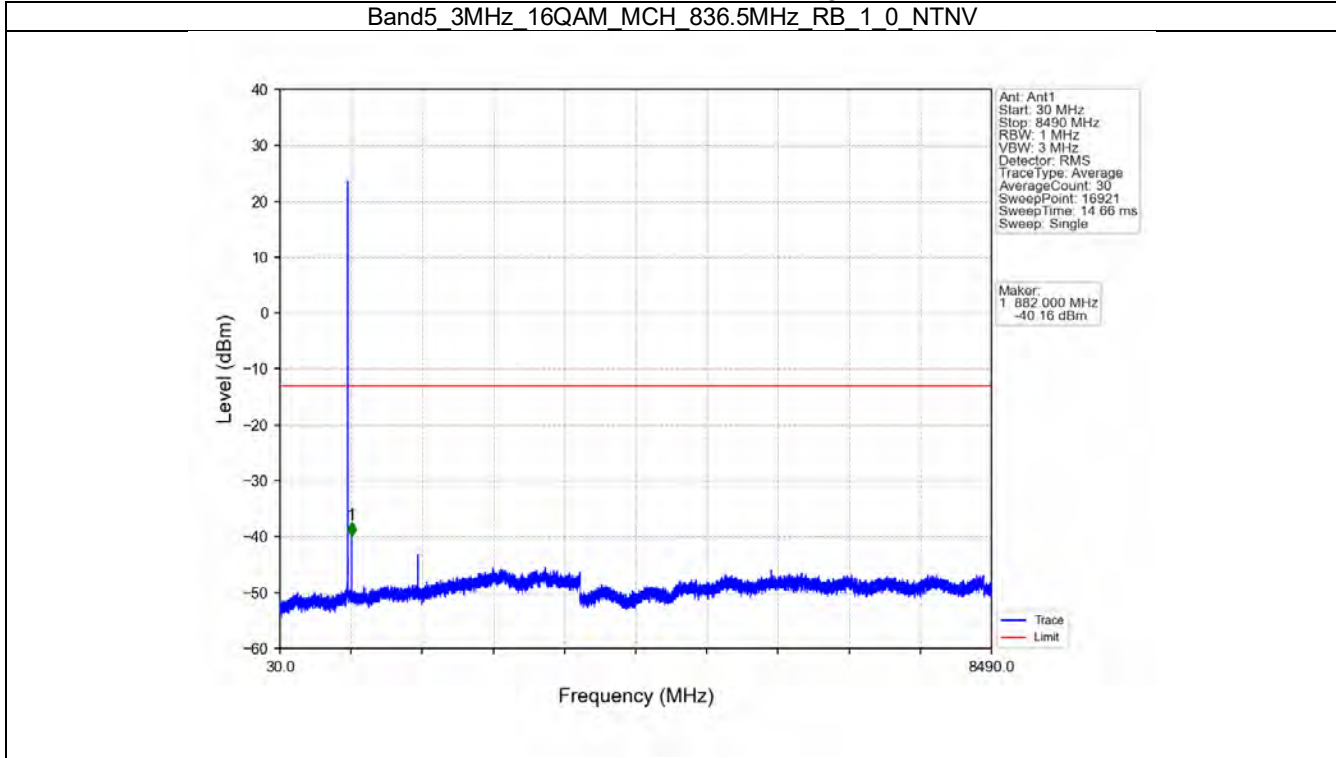
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Band5_3MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV



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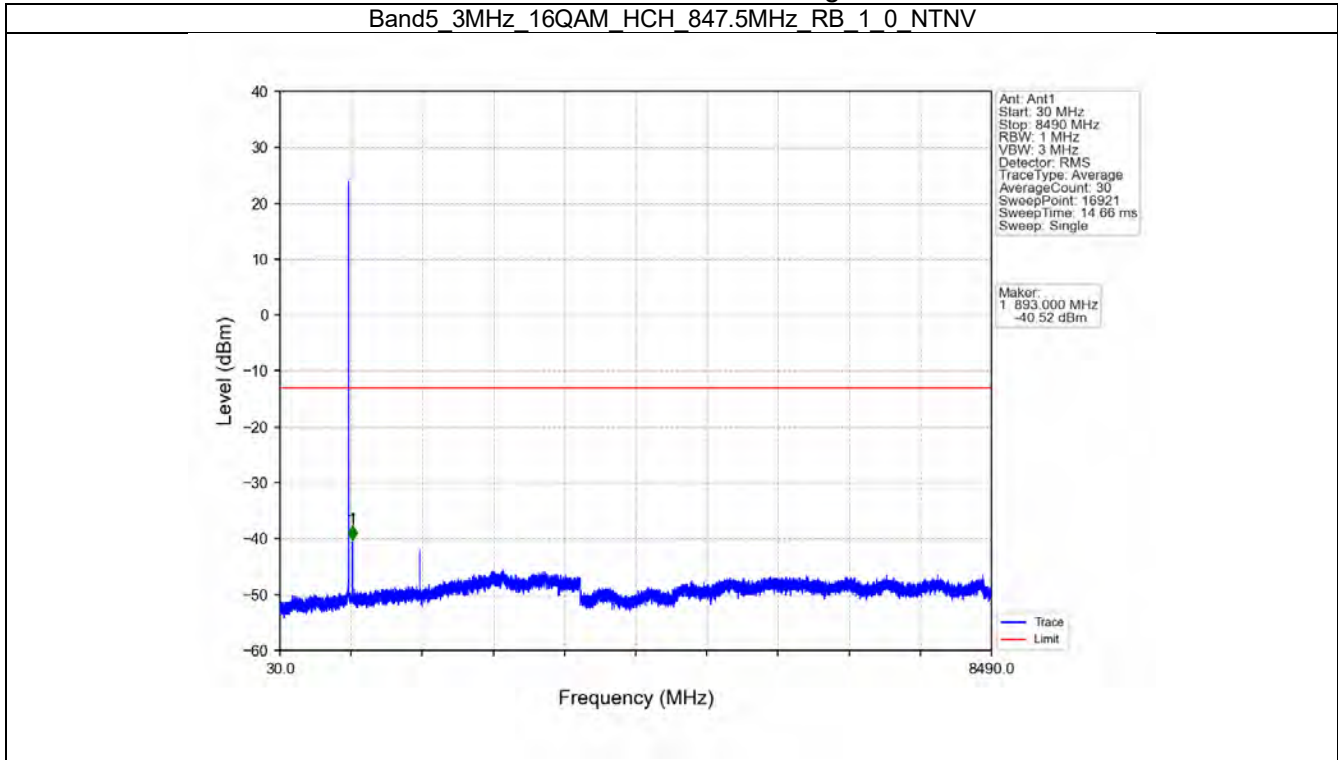
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Band5_3MHz_16QAM_HCH_847.5MHz_RB_1_0_NTNV



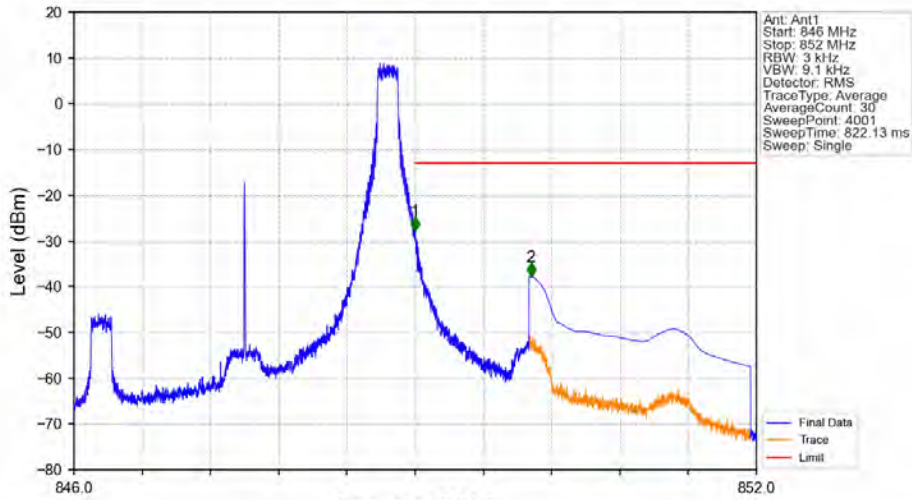
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Band5_3MHz_16QAM_HCH_847.5MHz_RB_1_14_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.000	-27.74	-13	Pass
850	852	0.1	CHP	2	850.019	-37.81	-13	Pass



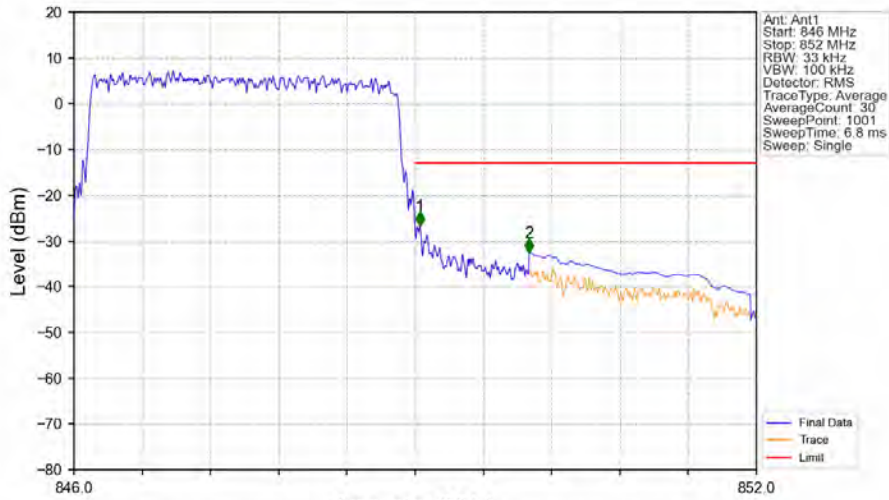
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Band5_3MHz_16QAM_HCH_847.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.033	/	/	/	/	/	/
849	850	0.033	/	1	849.042	-26.76	-13	Pass
850	852	0.1	CHP	2	850.002	-32.62	-13	Pass



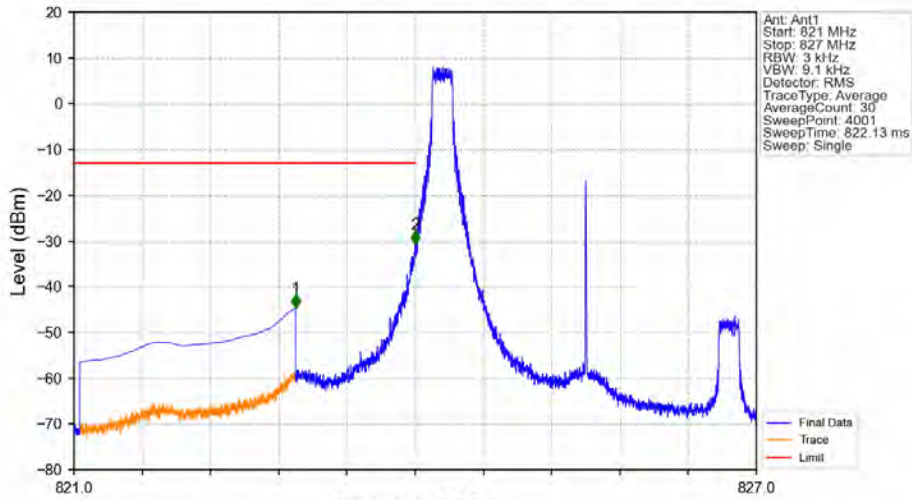
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Band5_3MHz_64QAM_LCH_825.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.947	-44.76	-13	Pass
823	824	0.003	/	2	823.999	-30.74	-13	Pass
824	827	0.003	/	/	/	/	/	/



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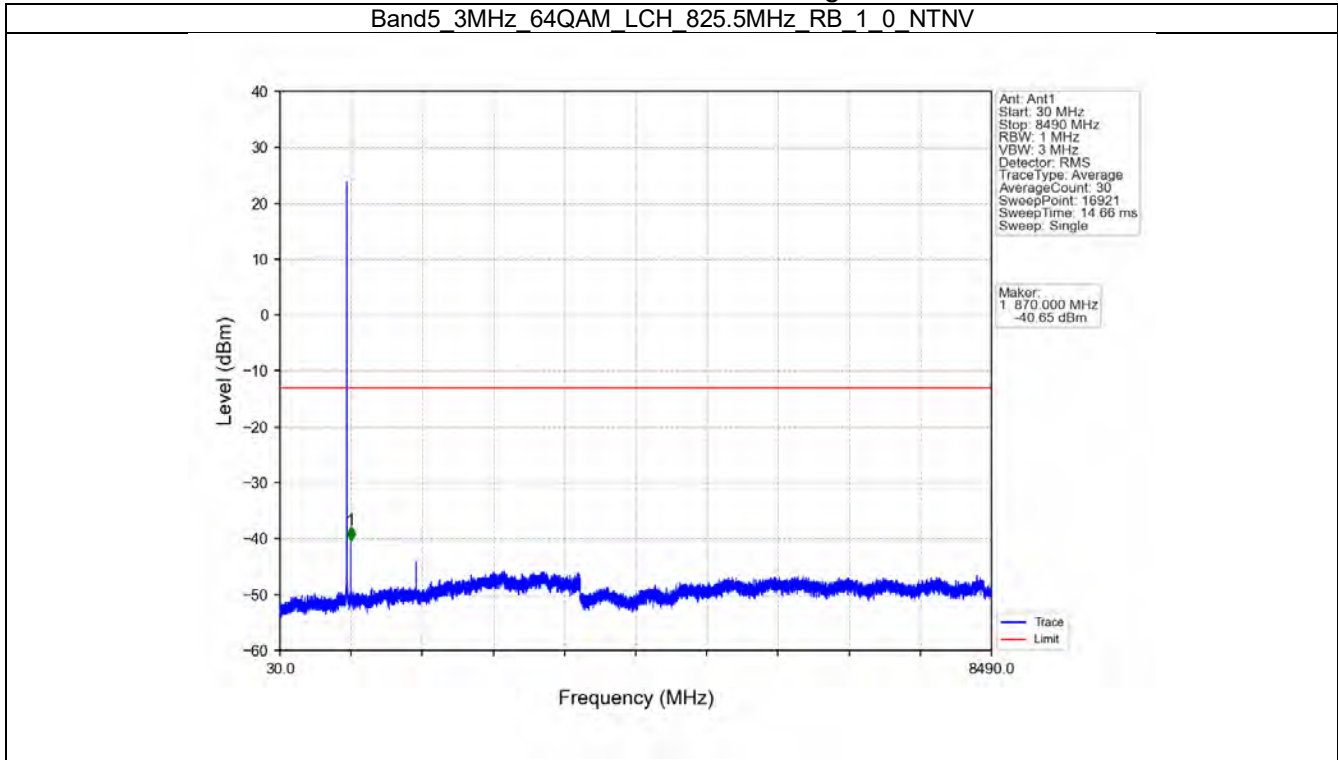
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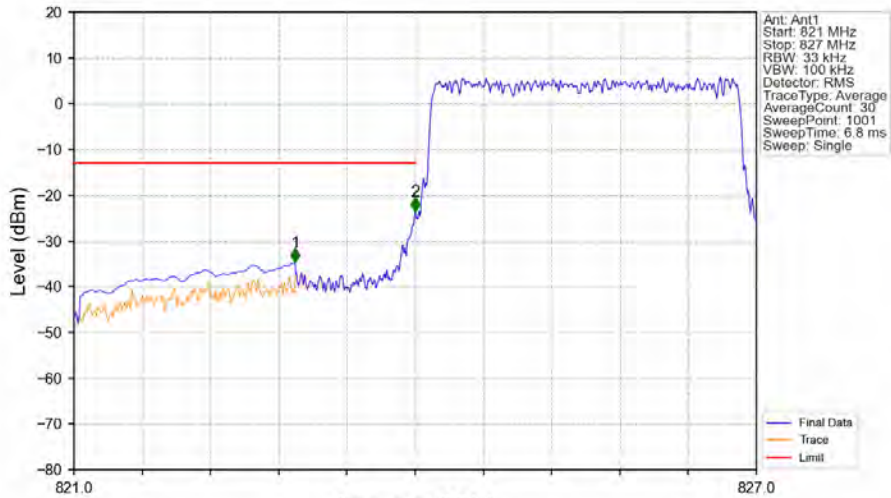
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Band5_3MHz_64QAM_LCH_825.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
821	823	0.1	CHP	1	822.944	-34.70	-13	Pass
823	824	0.033	/	2	824.000	-23.60	-13	Pass
824	827	0.033	/	/	/	/	/	/



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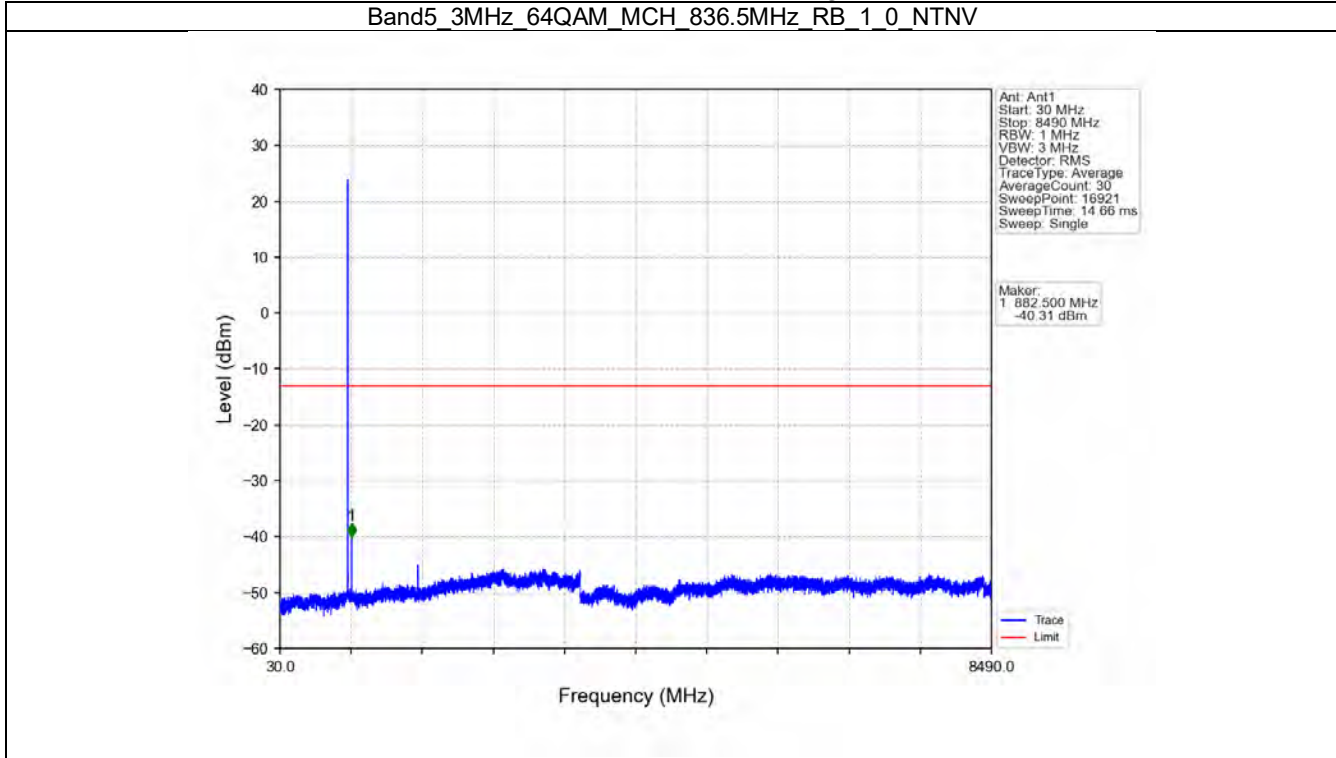
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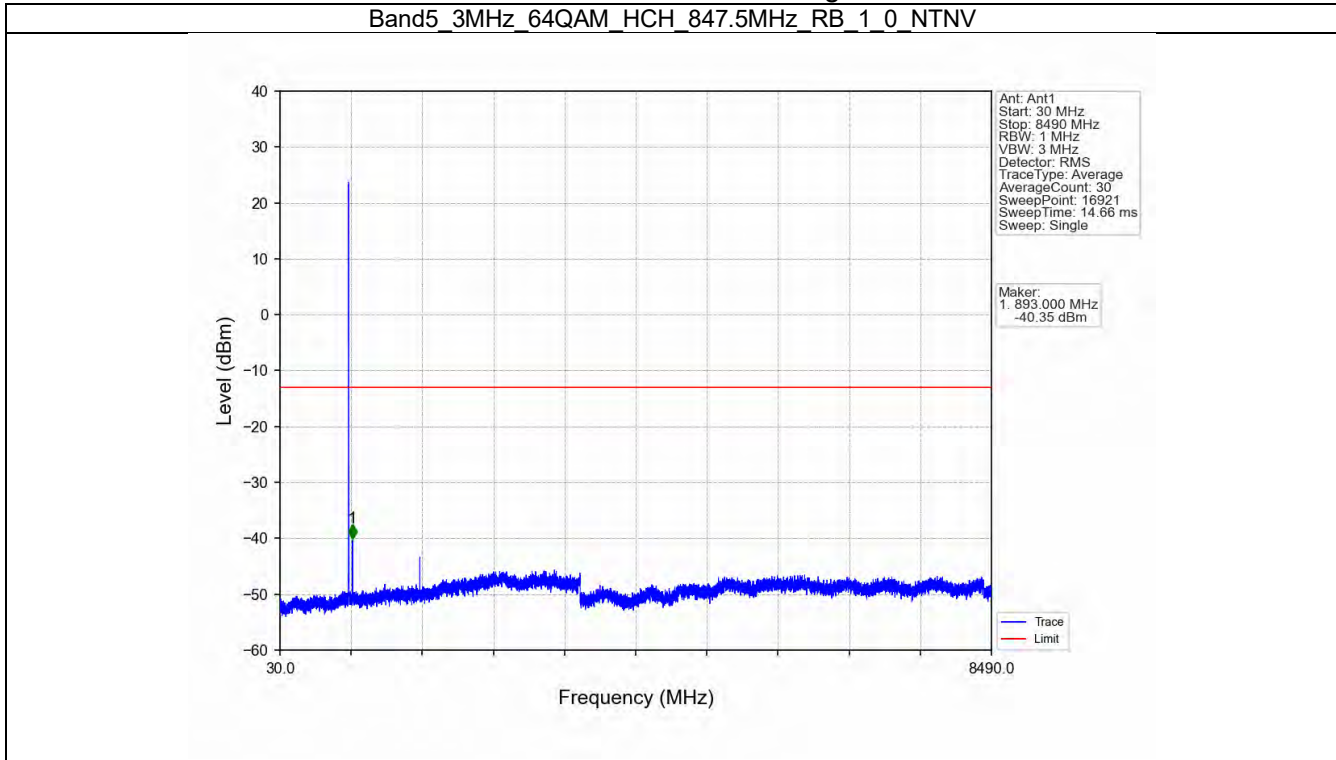
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Band5_3MHz_64QAM_HCH_847.5MHz_RB_1_0_NTNV



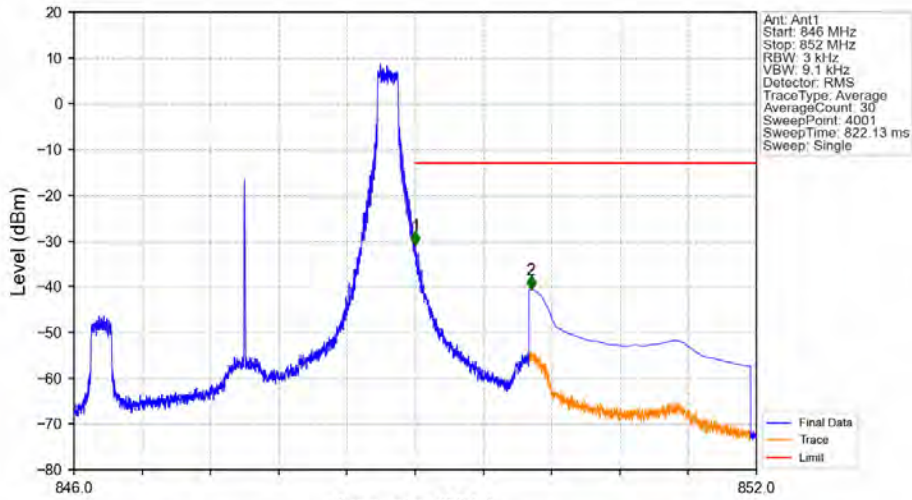
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Band5_3MHz_64QAM_HCH_847.5MHz_RB_1_14_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.003	-30.99	-13	Pass
850	852	0.1	CHP	2	850.019	-40.63	-13	Pass



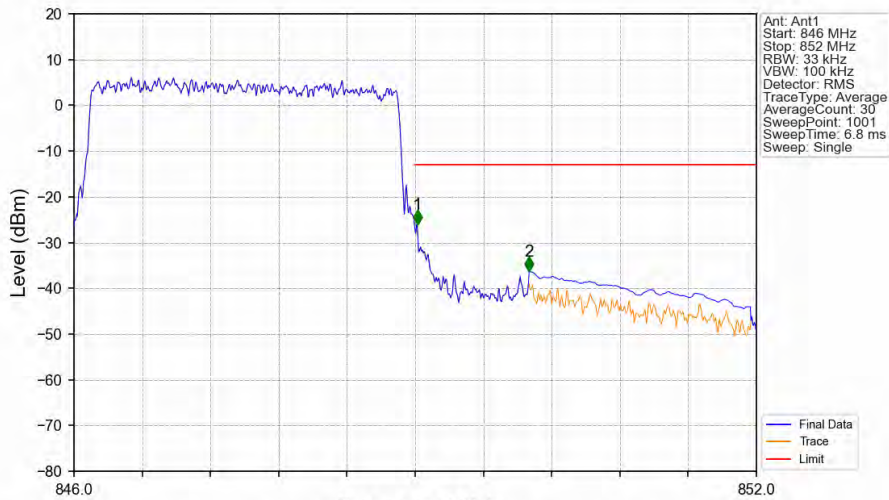
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Band5_3MHz_64QAM_HCH_847.5MHz_RB_15_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.033	/	/	/	/	/	/
849	850	0.033	/	1	849.018	-26.06	-13	Pass
850	852	0.1	CHP	2	850.002	-36.30	-13	Pass



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5.3 B5_5MHz

5.3.1 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
	836.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
16QAM	826.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
64QAM	826.5	1	0	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			24	Refer To Test Graph		Pass
		25	0	Refer To Test Graph		Pass



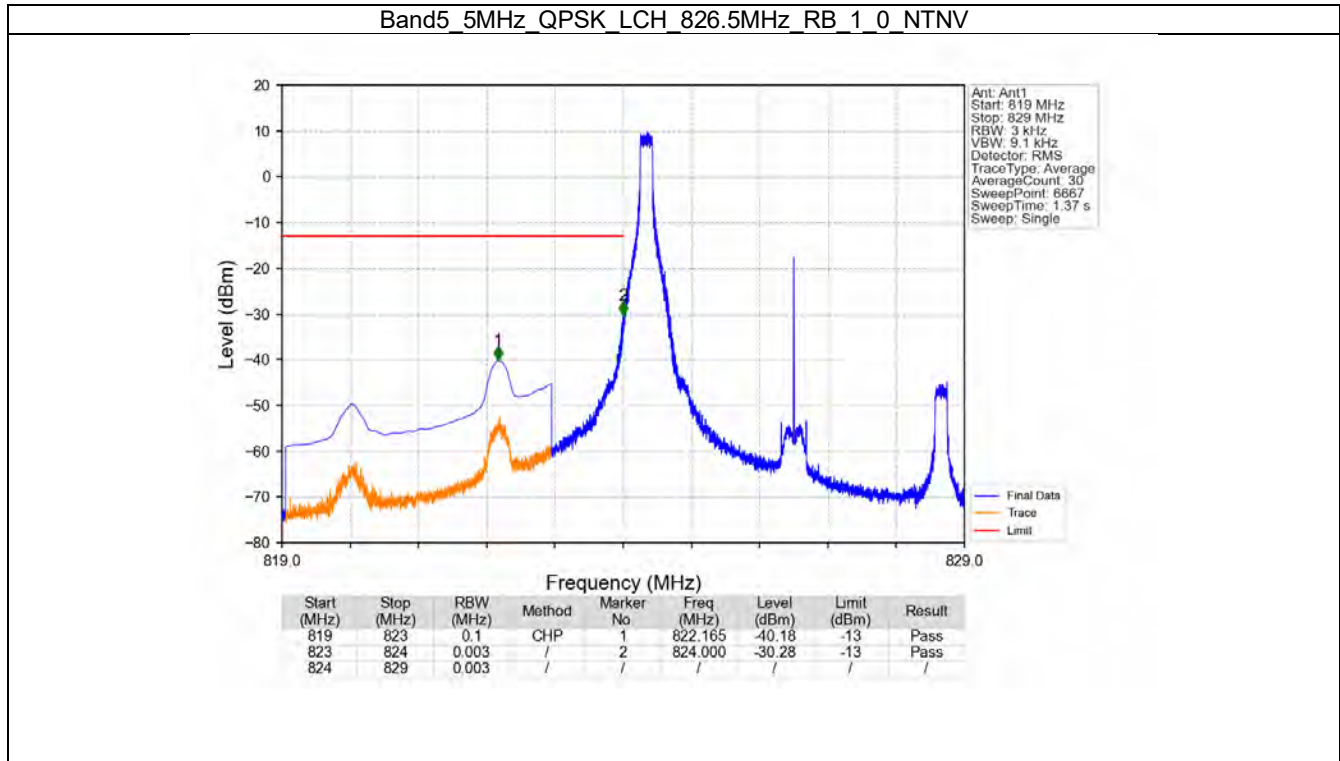
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5.3.2 Test Graph



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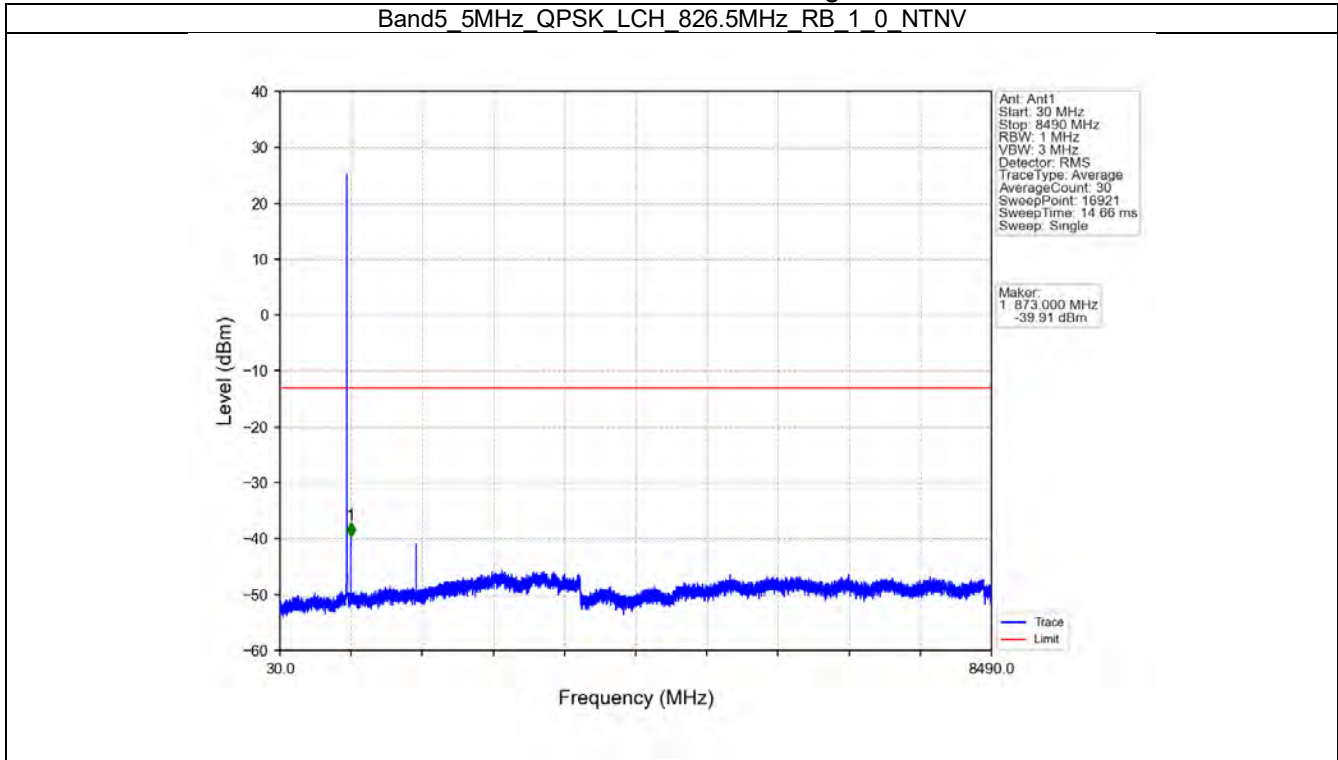
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Band5_5MHz_QPSK_LCH_826.5MHz_RB_1_0_NTNV



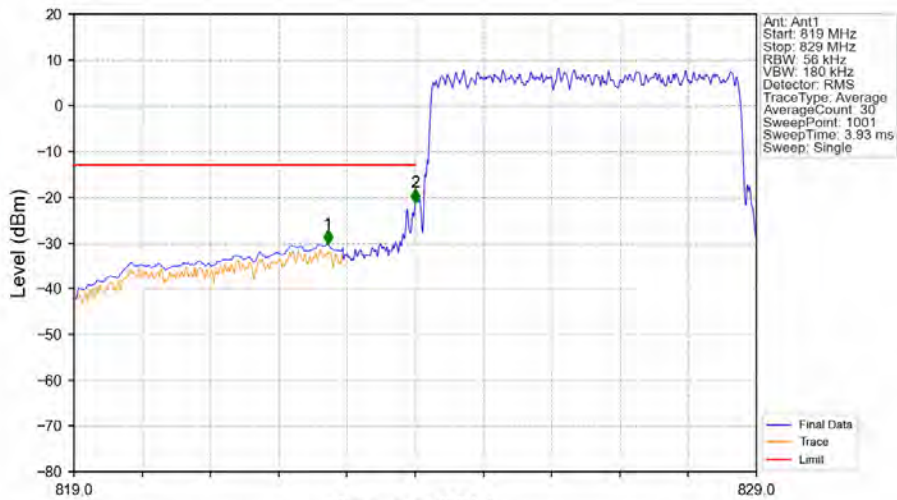
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Band5_5MHz_QPSK_LCH_826.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.720	-30.26	-13	Pass
823	824	0.056	/	2	824.000	-21.20	-13	Pass
824	829	0.056	/	/	/	/	/	/



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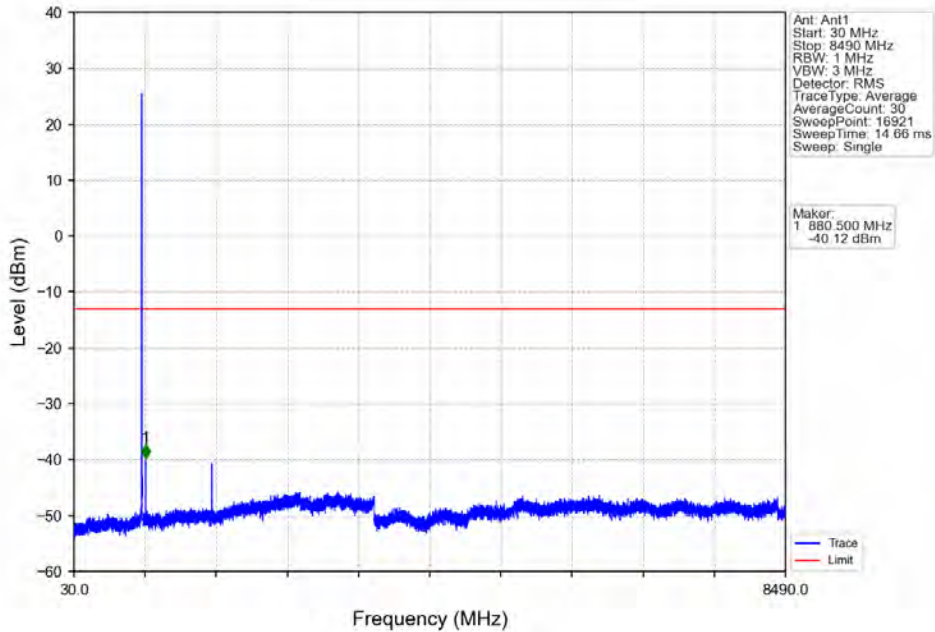
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Band5_5MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



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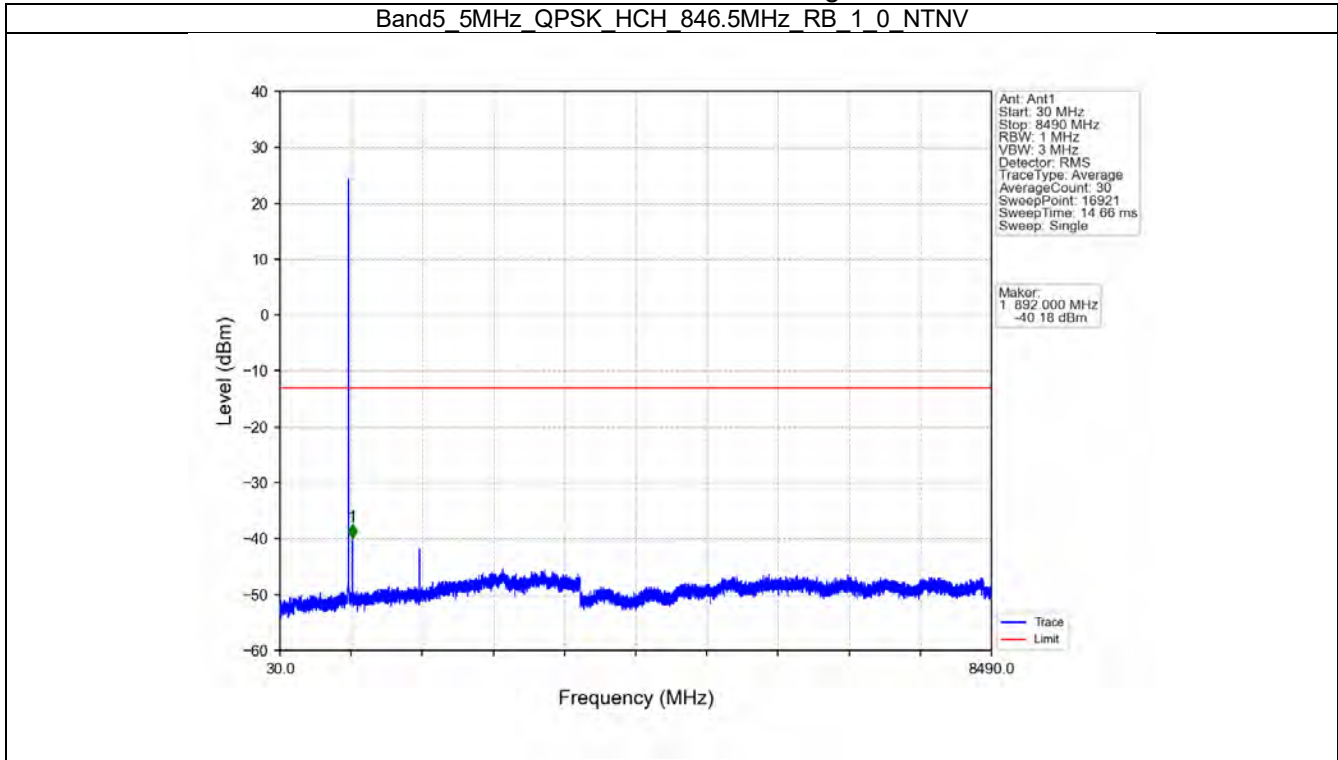
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Band5_5MHz_QPSK_HCH_846.5MHz_RB_1_0_NTNV



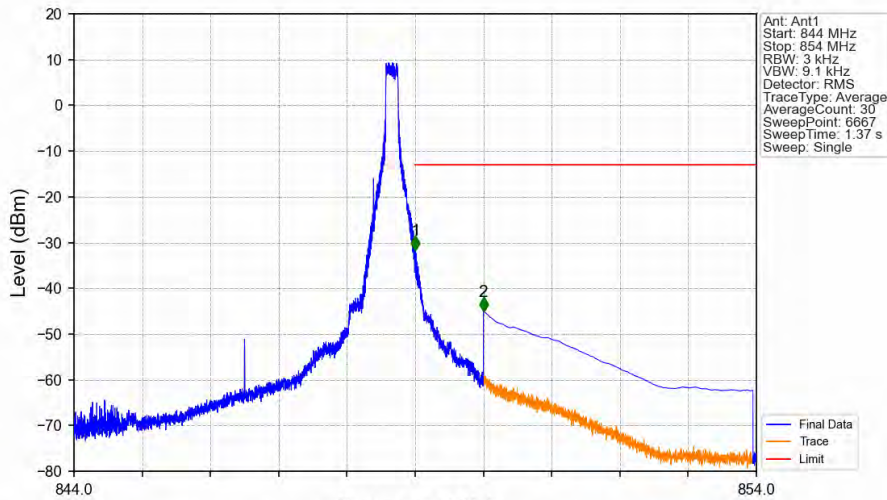
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Band5_5MHz_QPSK_HCH_846.5MHz_RB_1_24_NTNV



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844	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.001	-31.66	-13	Pass
850	854	0.1	CHP	2	850.001	-45.12	-13	Pass



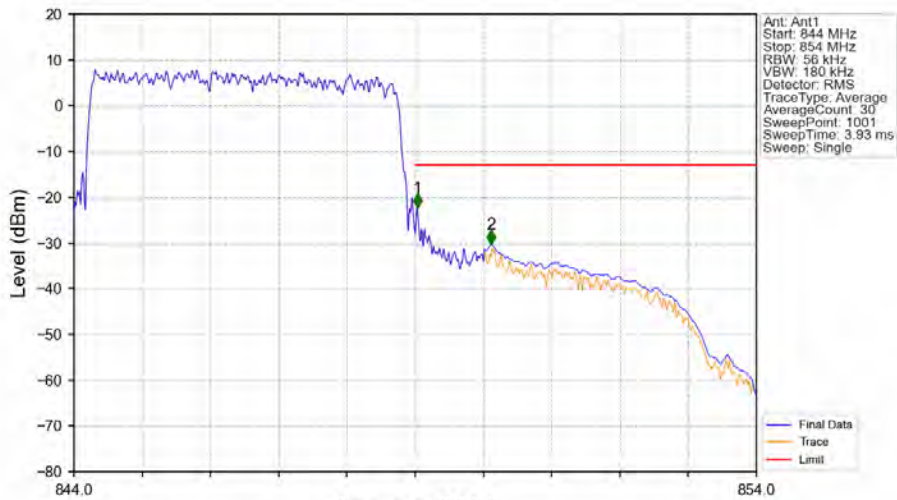
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Band5_5MHz_QPSK_HCH_846.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.056	/	/	/	/	/	/
849	850	0.056	/	1	849.030	-22.29	-13	Pass
850	854	0.1	CHP	2	850.110	-30.32	-13	Pass



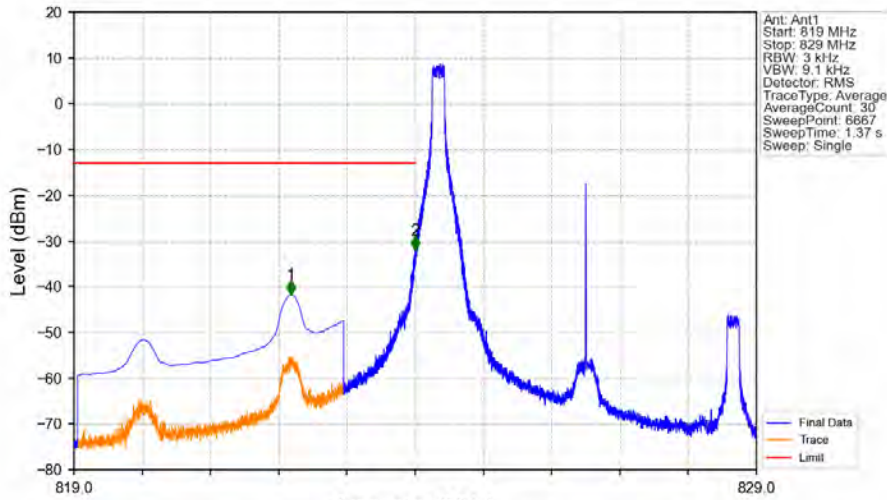
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Band5_5MHz_16QAM_LCH_826.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.179	-41.70	-13	Pass
823	824	0.003	/	2	824.000	-32.02	-13	Pass
824	829	0.003	/	/	/	/	/	/



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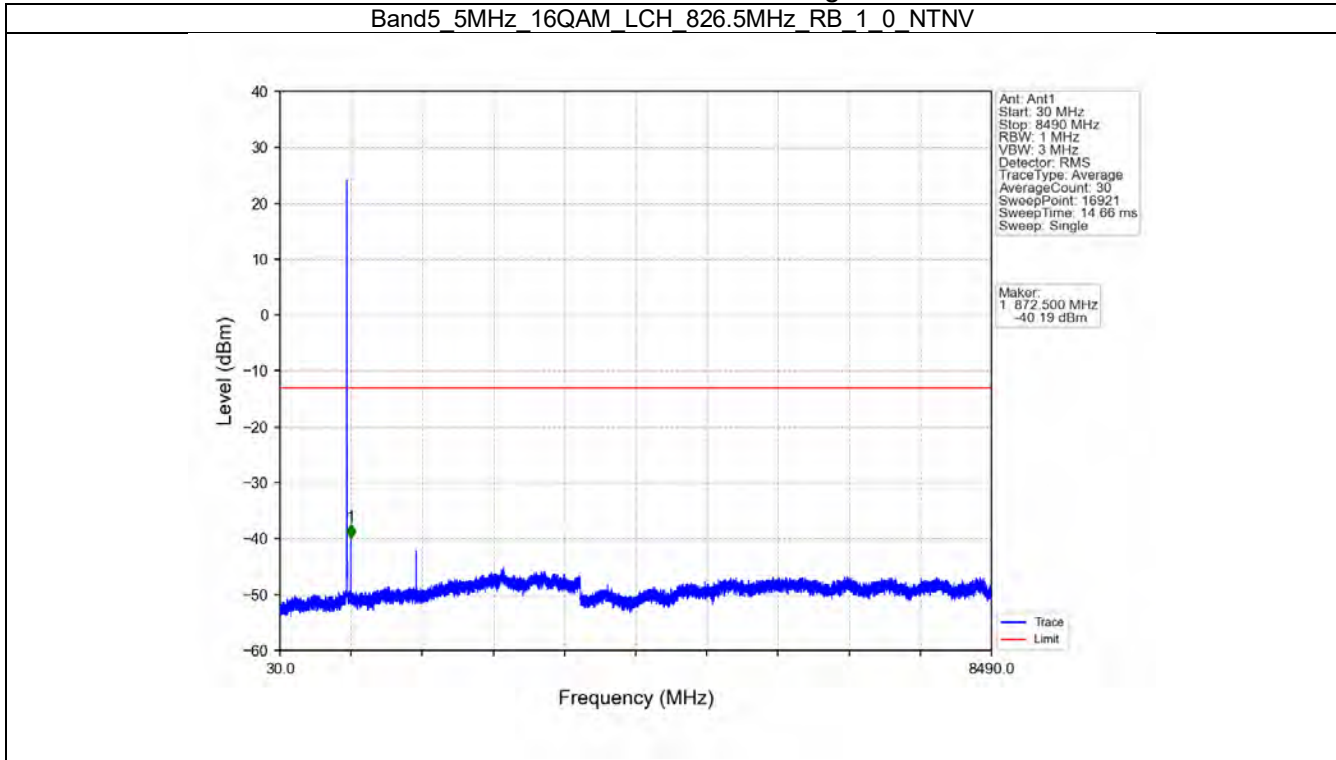
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Band5_5MHz_16QAM_LCH_826.5MHz_RB_1_0_NTNV



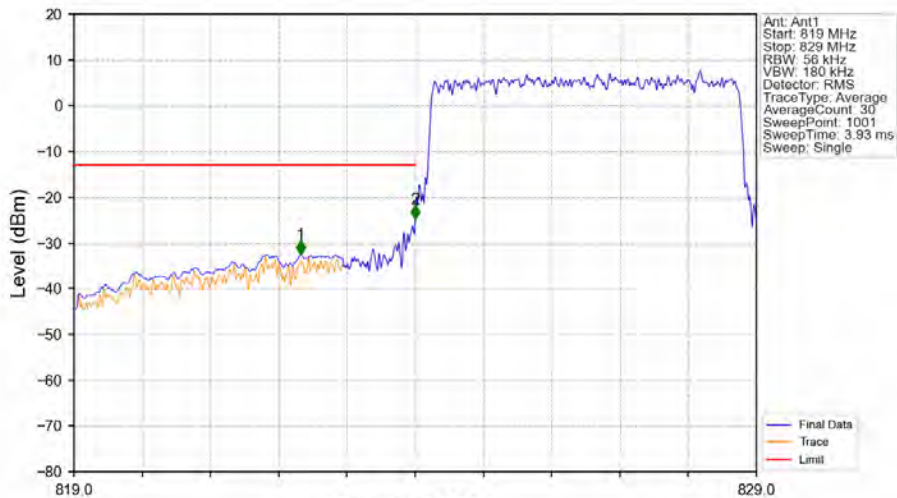
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Band5_5MHz_16QAM_LCH_826.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.320	-32.54	-13	Pass
823	824	0.056	/	2	824.000	-24.74	-13	Pass
824	829	0.056	/	/	/	/	/	/



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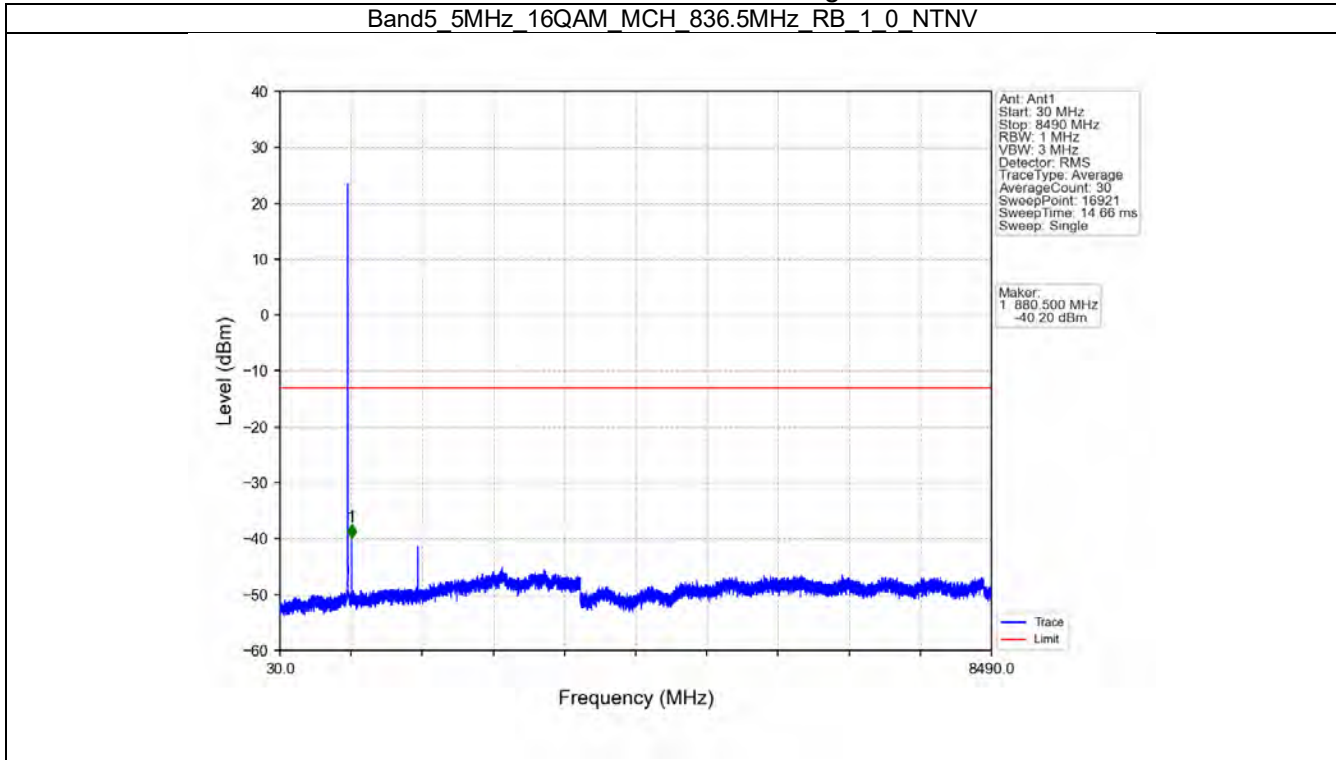
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Band5_5MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV



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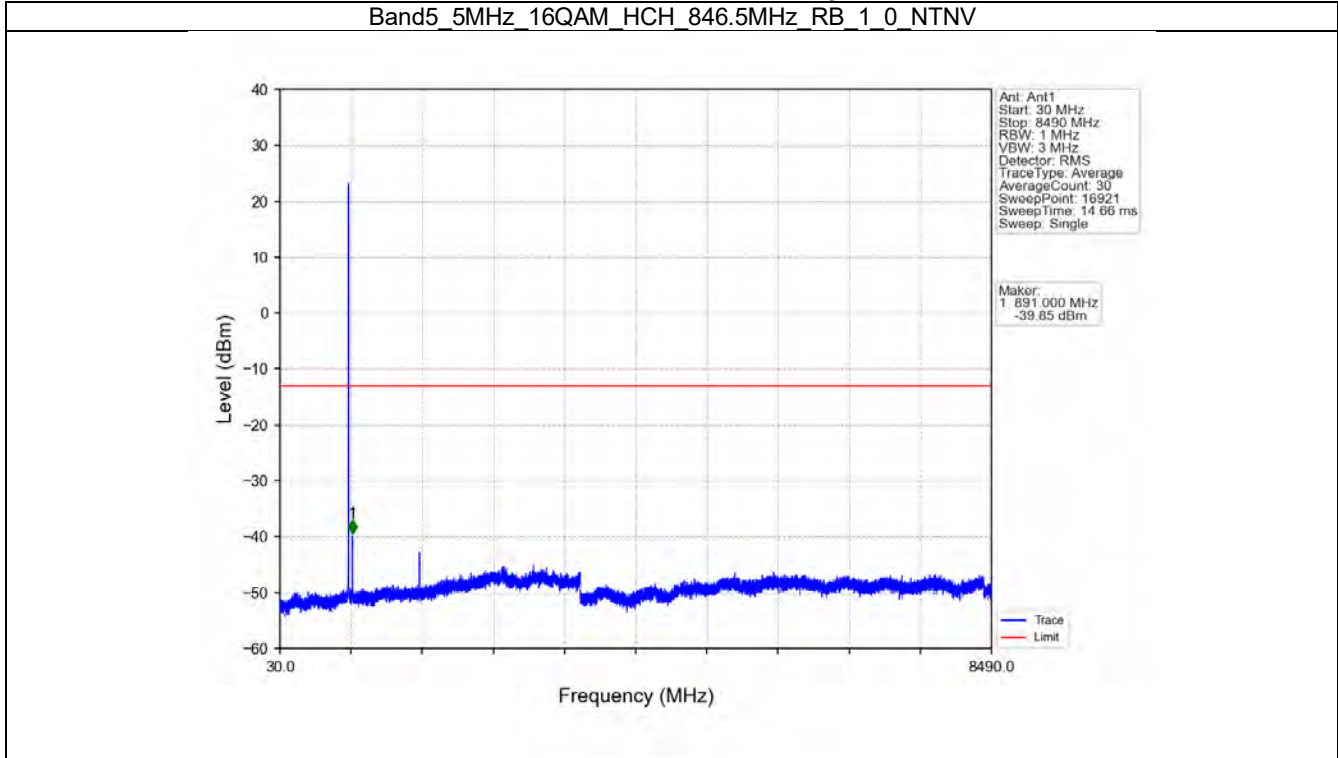
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Band5_5MHz_16QAM_HCH_846.5MHz_RB_1_0_NTNV



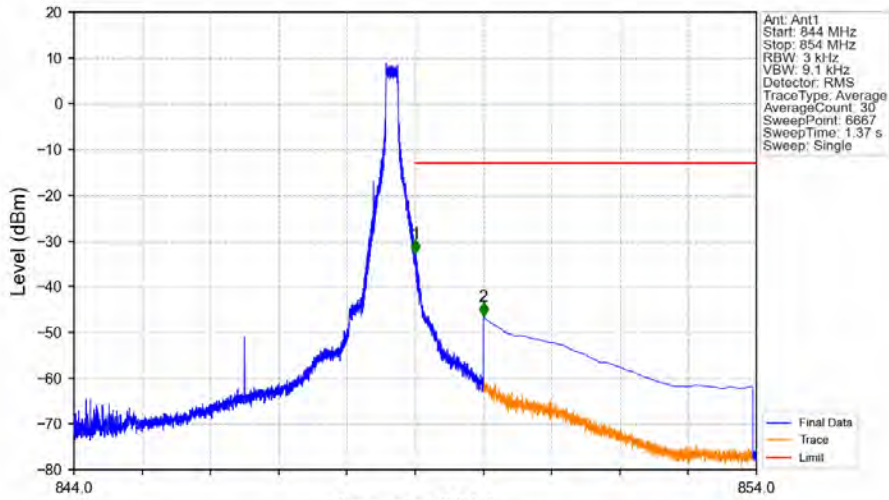
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Band5_5MHz_16QAM_HCH_846.5MHz_RB_1_24_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.001	-32.69	-13	Pass
850	854	0.1	CHP	2	850.001	-46.51	-13	Pass



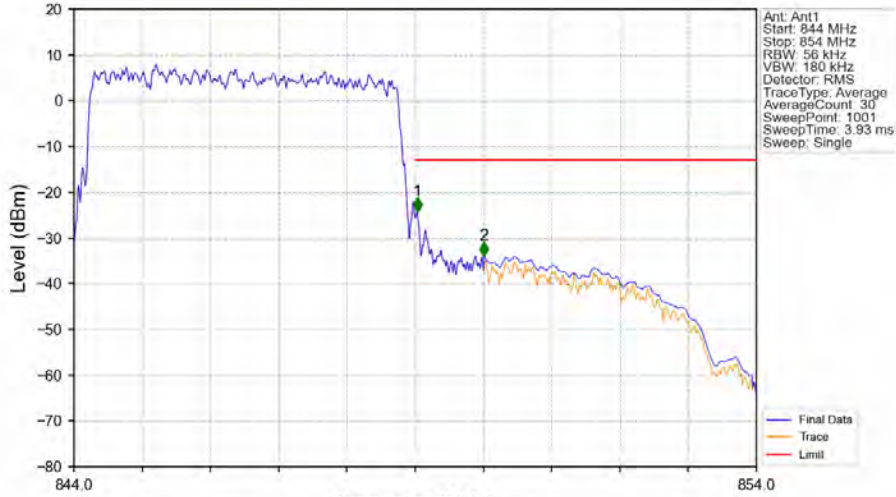
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Band5_5MHz_16QAM_HCH_846.5MHz_RB_25_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.056	/	/	/	/	/	/
849	850	0.056	/	1	849.030	-24.18	-13	Pass
850	854	0.1	CHP	2	850.010	-33.89	-13	Pass



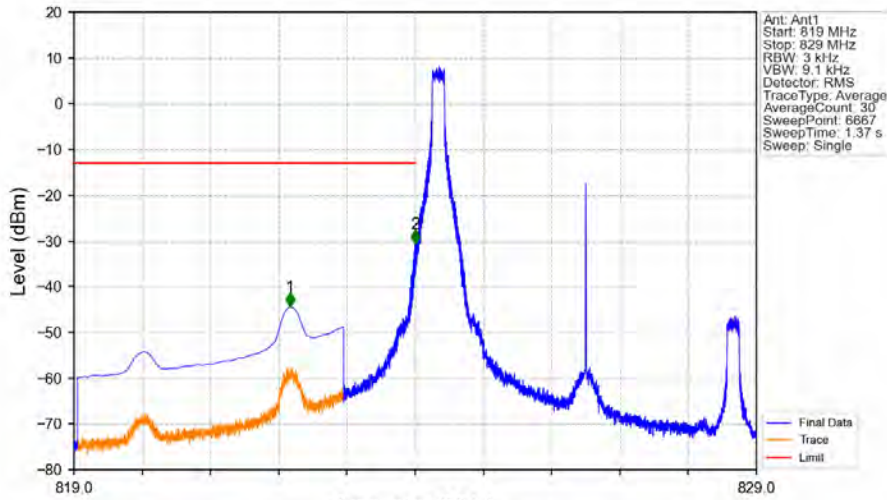
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Band5_5MHz_64QAM_LCH_826.5MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.164	-44.44	-13	Pass
823	824	0.003	/	2	824.000	-30.67	-13	Pass
824	829	0.003	/	/	/	/	/	/



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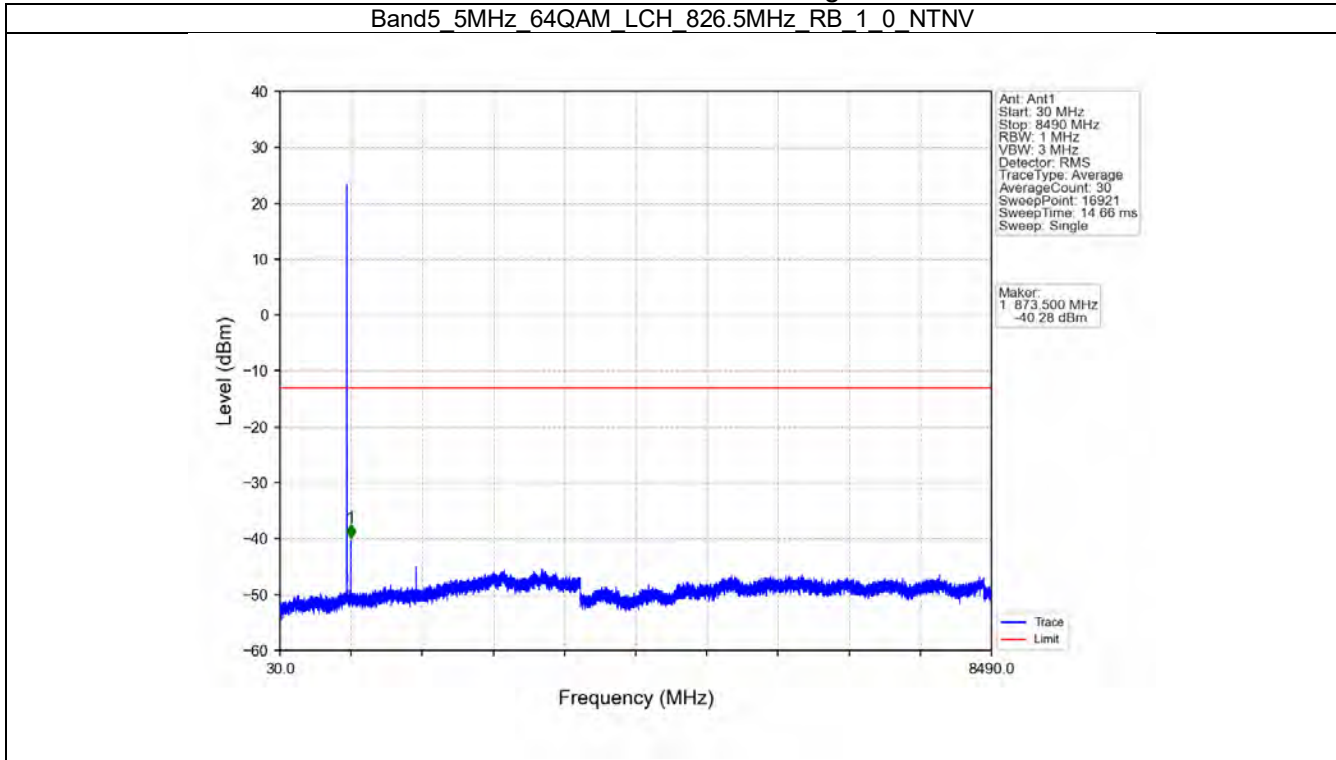
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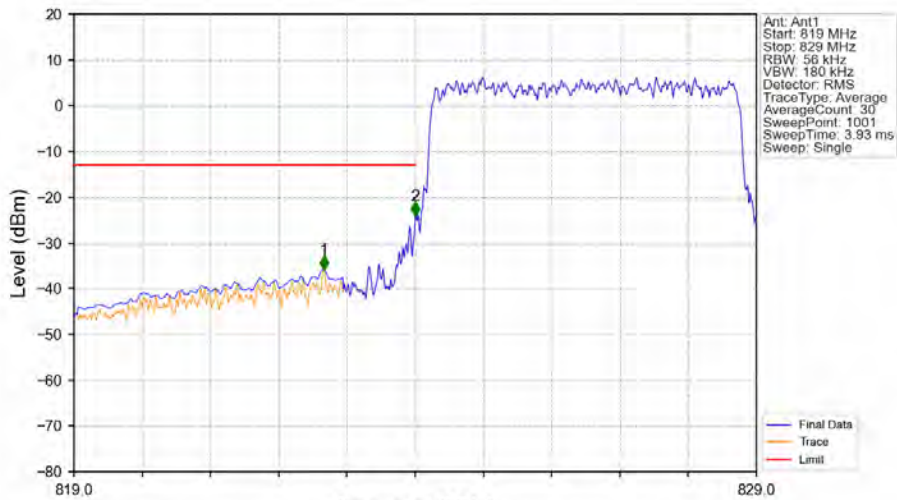
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
819	823	0.1	CHP	1	822.660	-35.96	-13	Pass
823	824	0.056	/	2	824.000	-24.15	-13	Pass
824	829	0.056	/	/	/	/	/	/



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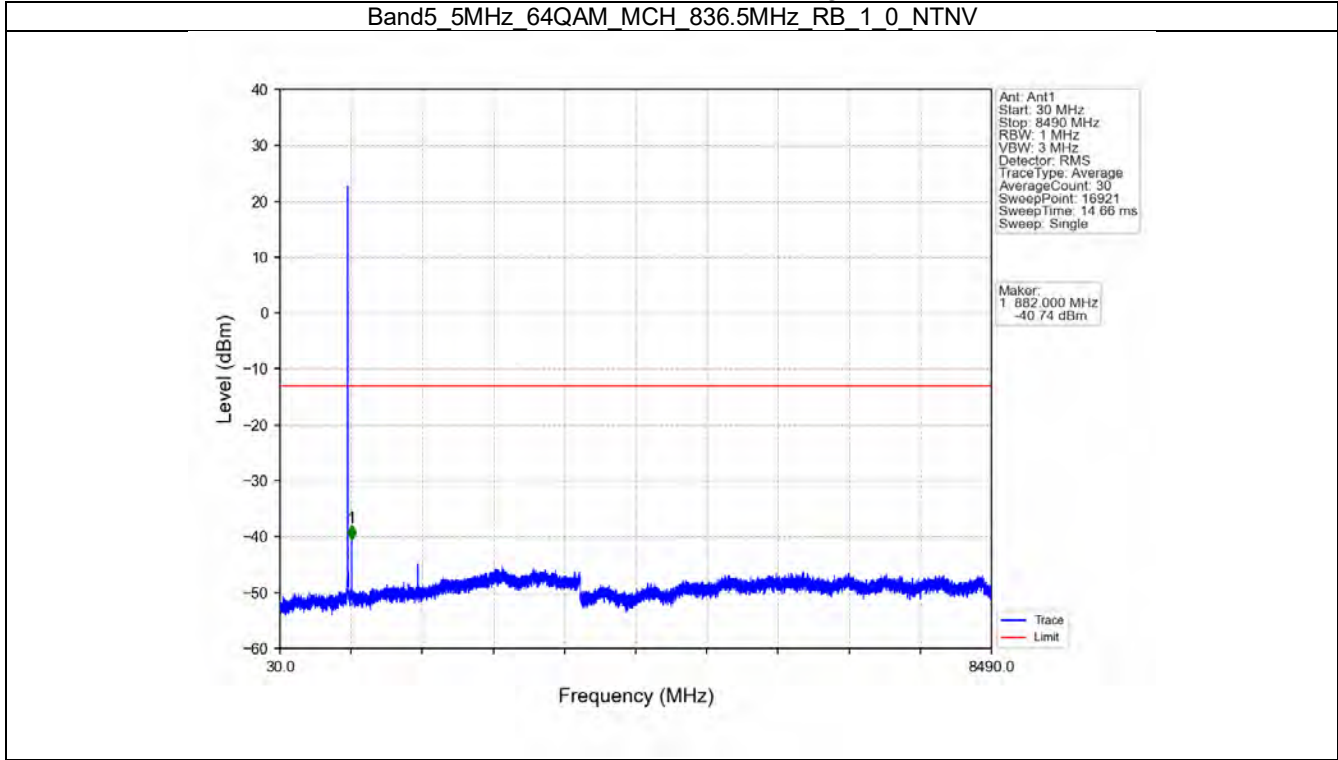
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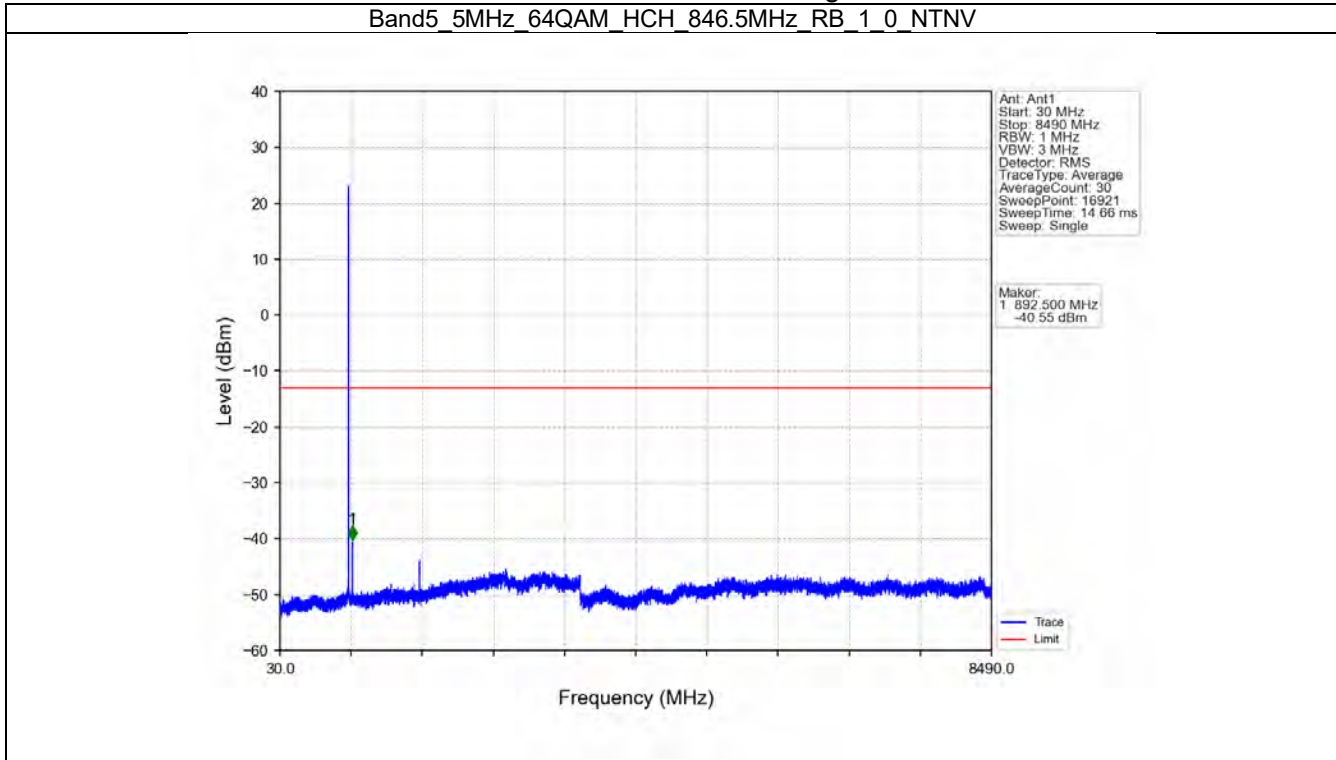
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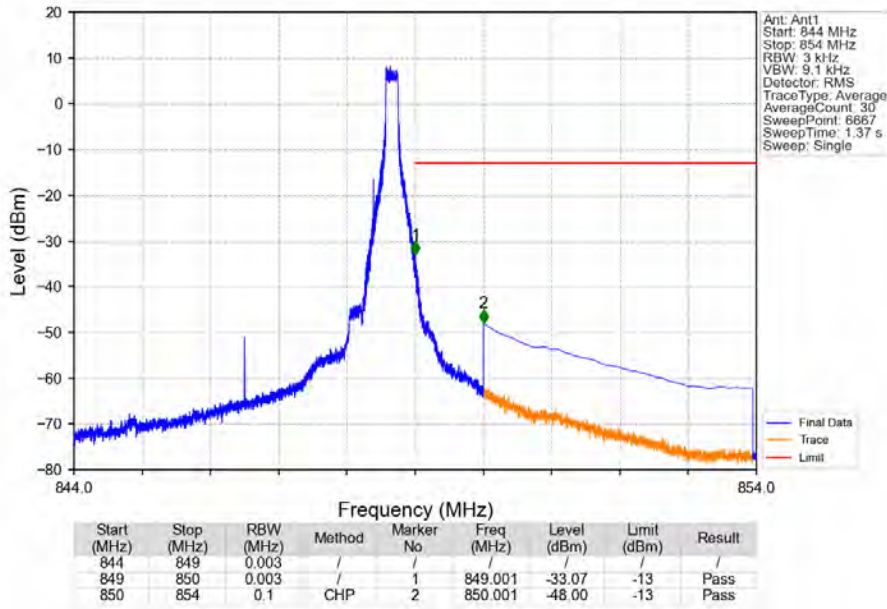
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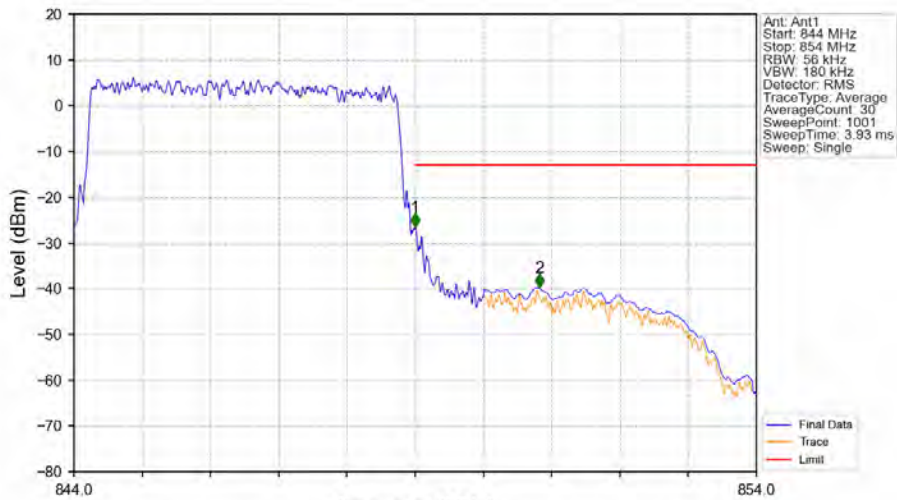
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.056	/	/	/	/	/	/
849	850	0.056	/	1	849.000	-26.59	-13	Pass
850	854	0.1	CHP	2	850.820	-39.77	-13	Pass



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5.4 B5_10MHz

5.4.1 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
		1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
16QAM	829	1	0	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
		1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	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
		1	0	Refer To Test Graph		Pass
			49	Refer To Test Graph		Pass
		50	0	Refer To Test Graph		Pass



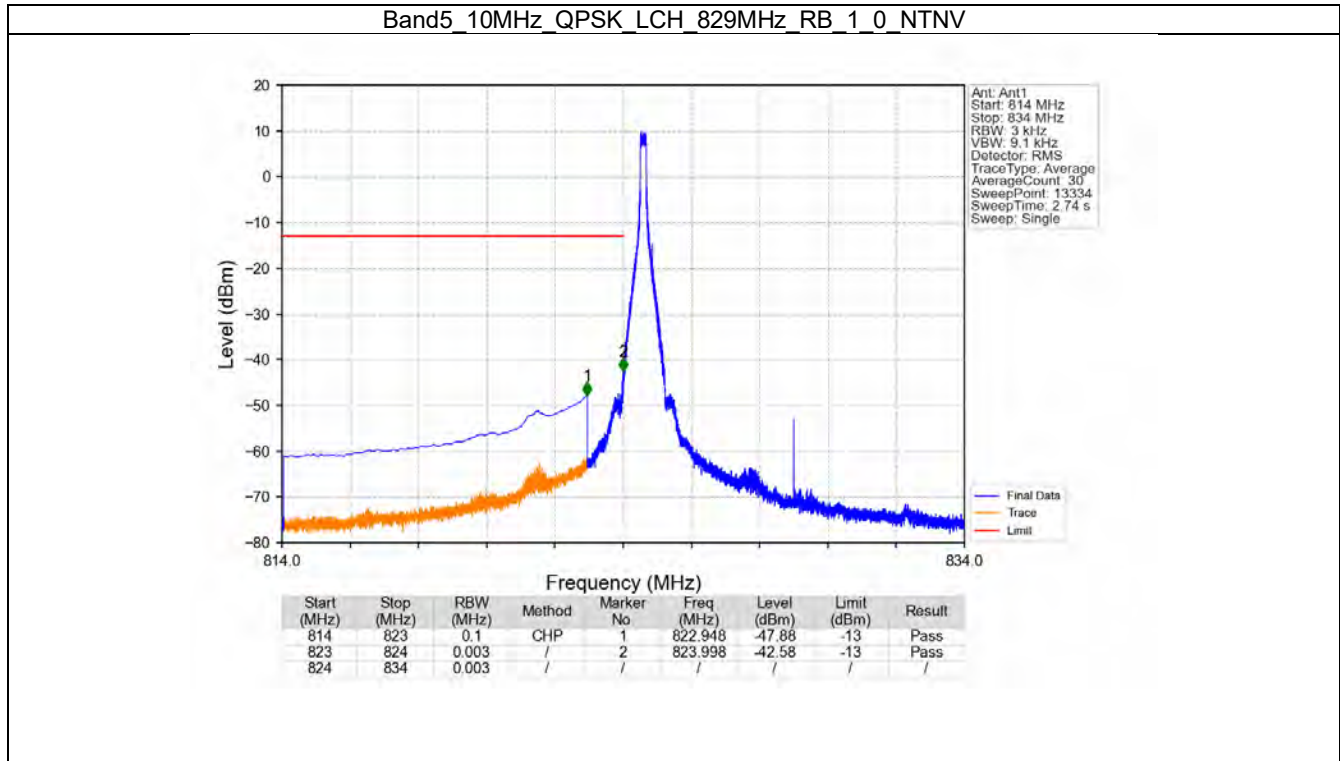
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5.4.2 Test Graph



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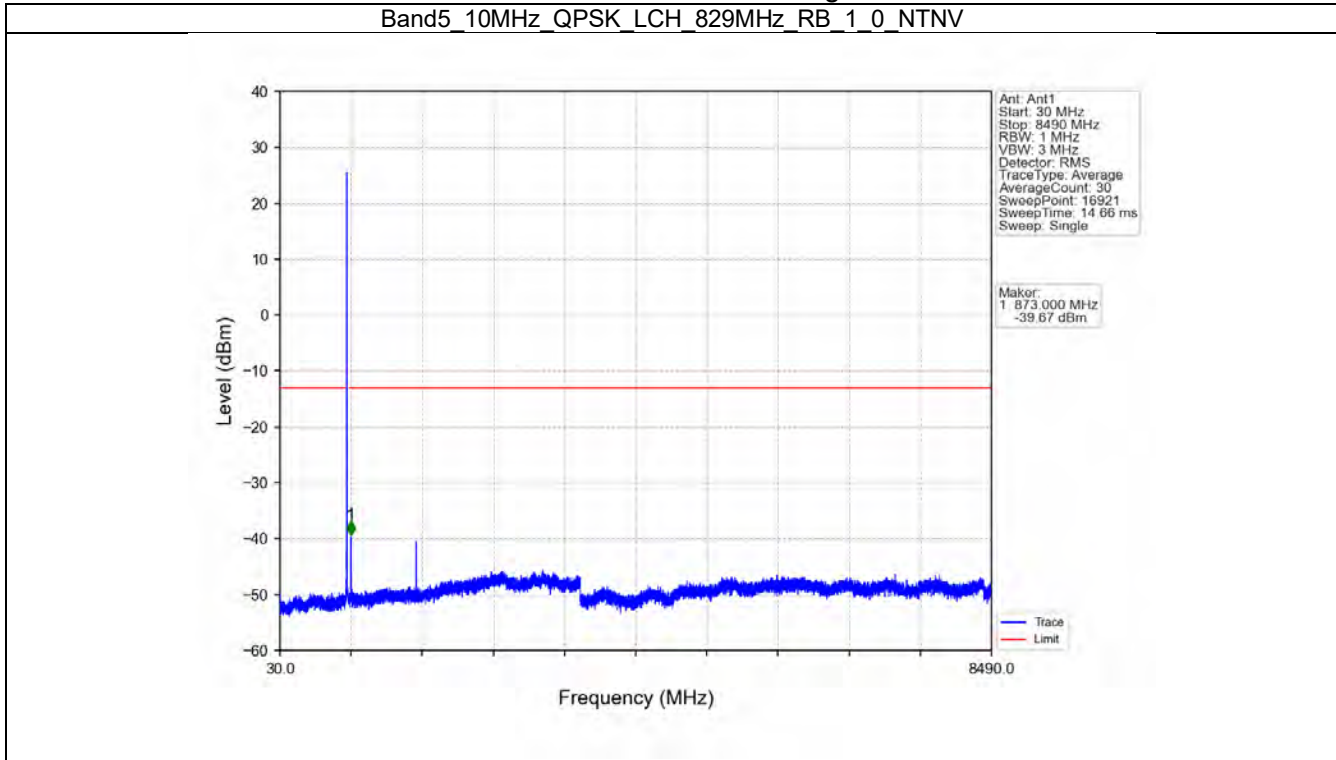
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Band5_10MHz_QPSK_LCH_829MHz_RB_1_0_NTNV



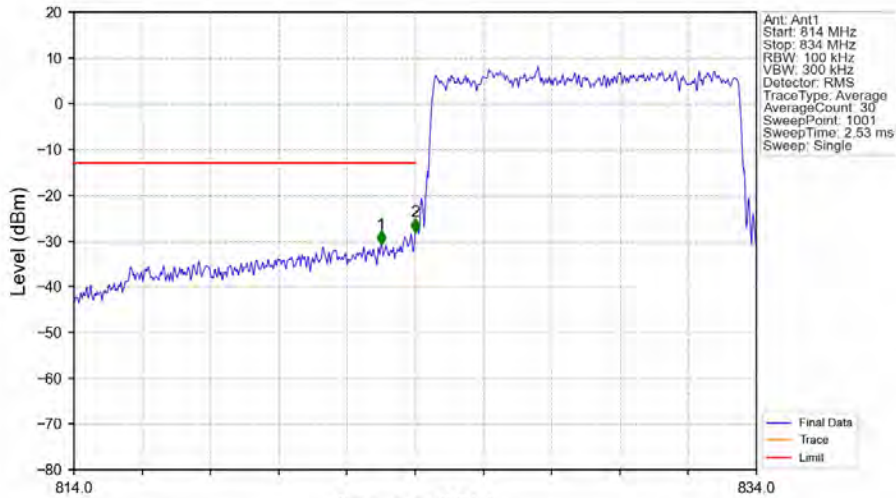
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Band5_10MHz_QPSK_LCH_829MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	823	0.1	/	1	823.000	-30.76	-13	Pass
823	824	0.102	/	2	824.000	-28.06	-13	Pass
824	834	0.102	/	/	/	/	/	/



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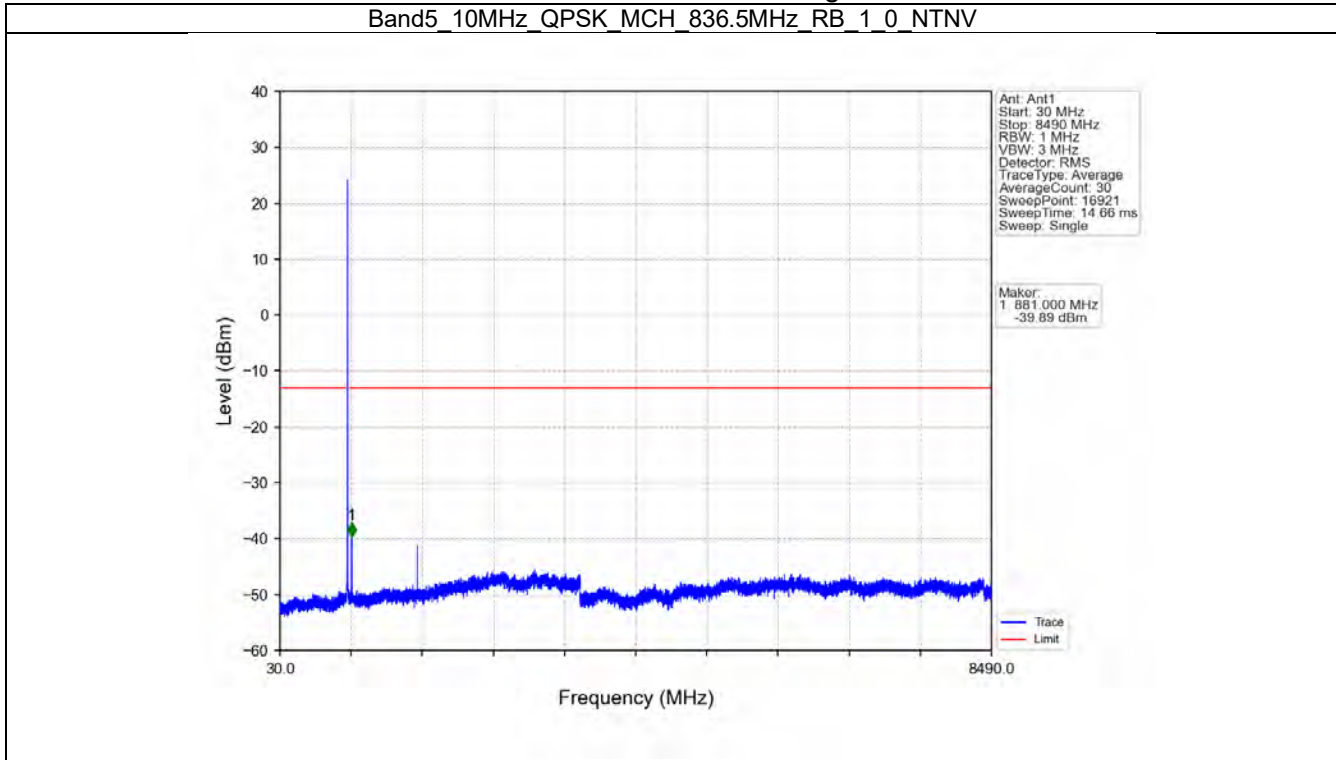
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Band5_10MHz_QPSK_MCH_836.5MHz_RB_1_0_NTNV



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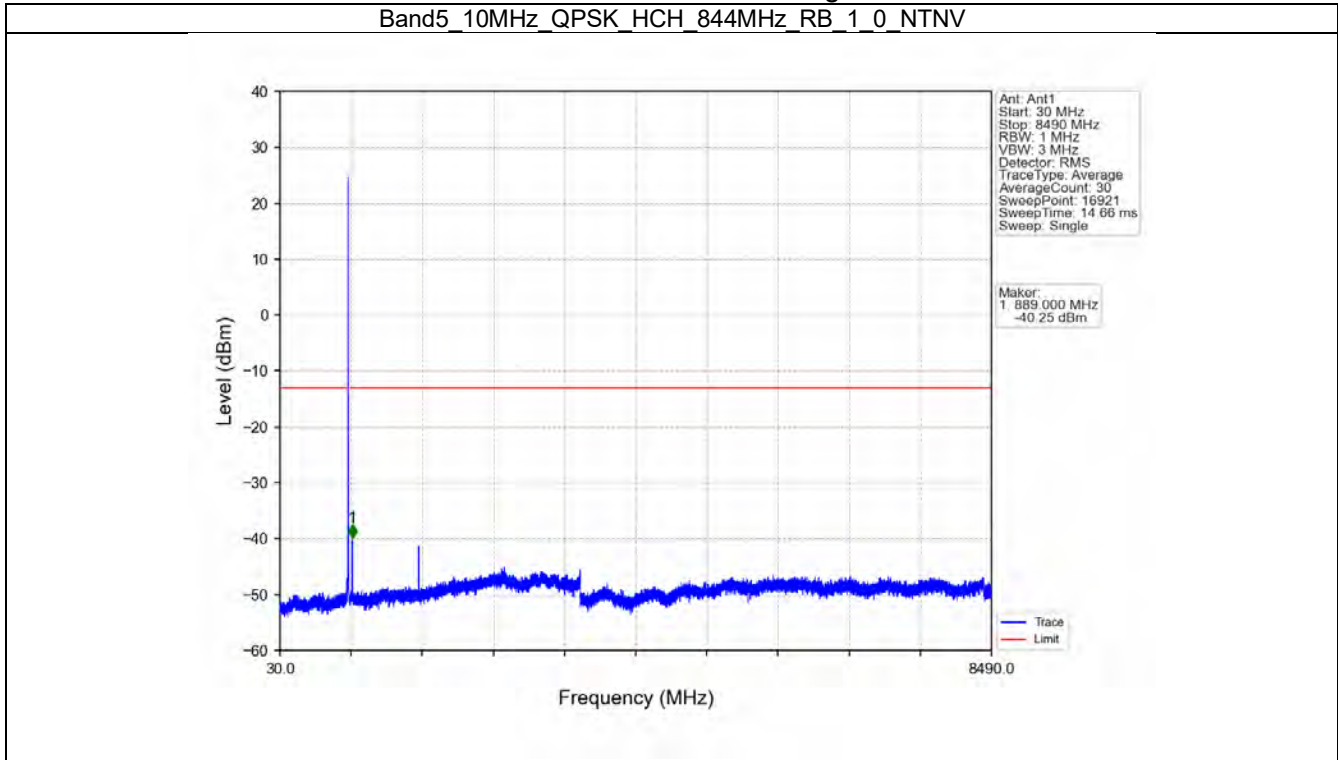
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Band5 10MHz_QPSK_HCH_844MHz_RB_1_0_NTNV



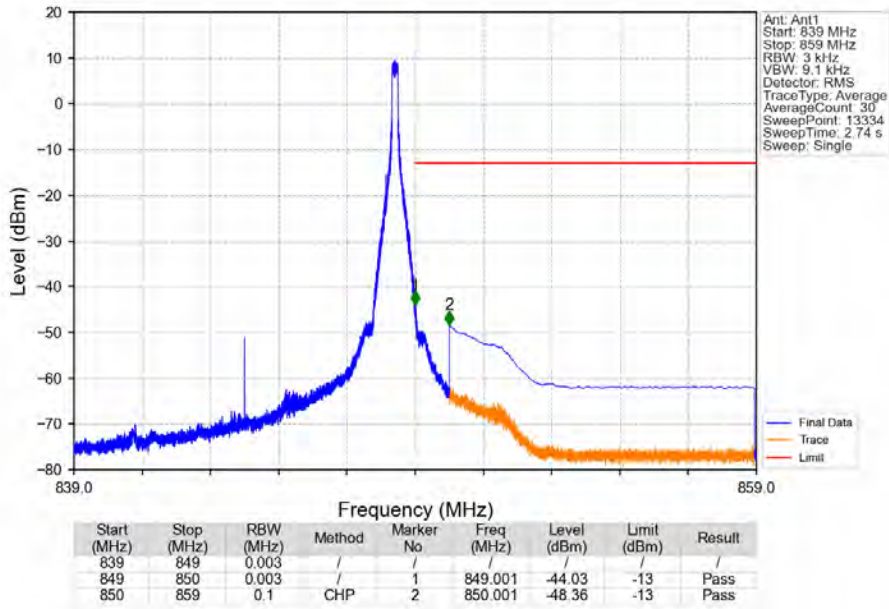
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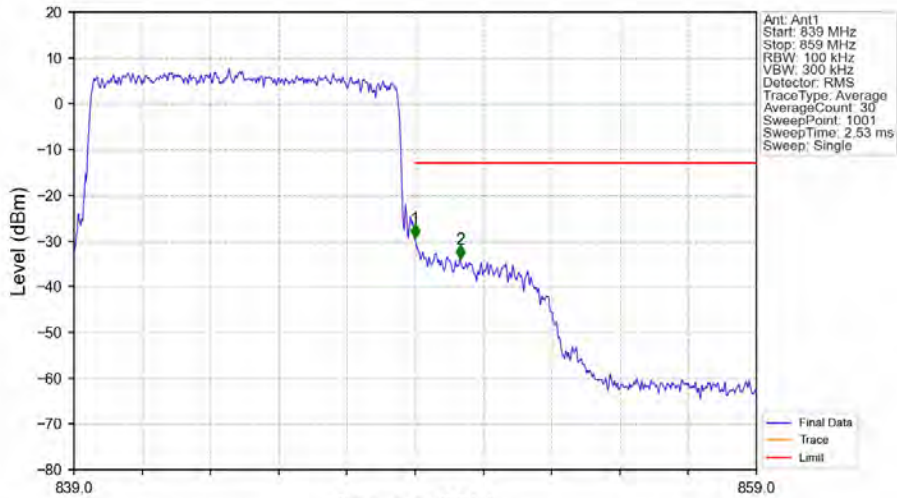
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Band5_10MHz_QPSK_HCH_844MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.101	/	/	/	/	/	/
849	850	0.101	/	1	849.000	-29.33	-13	Pass
850	859	0.1	/	2	850.320	-33.99	-13	Pass



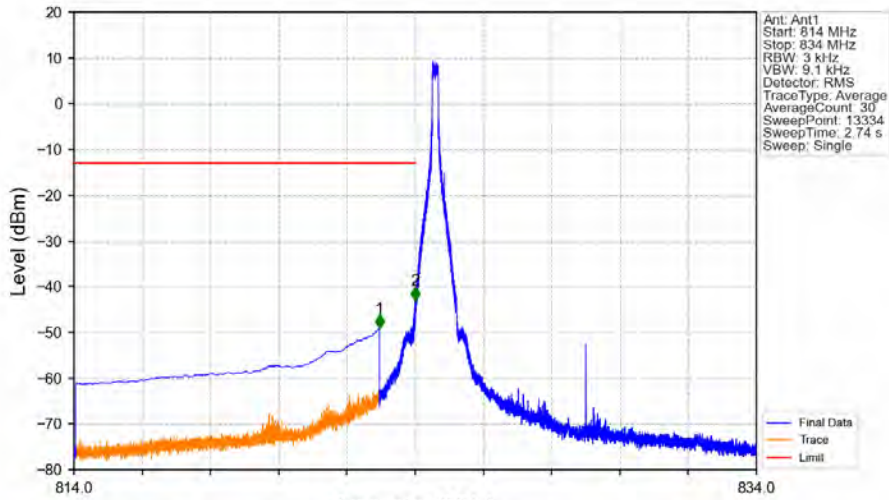
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Band5_10MHz_16QAM_LCH_829MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	823	0.1	CHP	1	822.949	-49.14	-13	Pass
823	824	0.003	/	2	823.998	-43.06	-13	Pass
824	834	0.003	/	/	/	/	/	/



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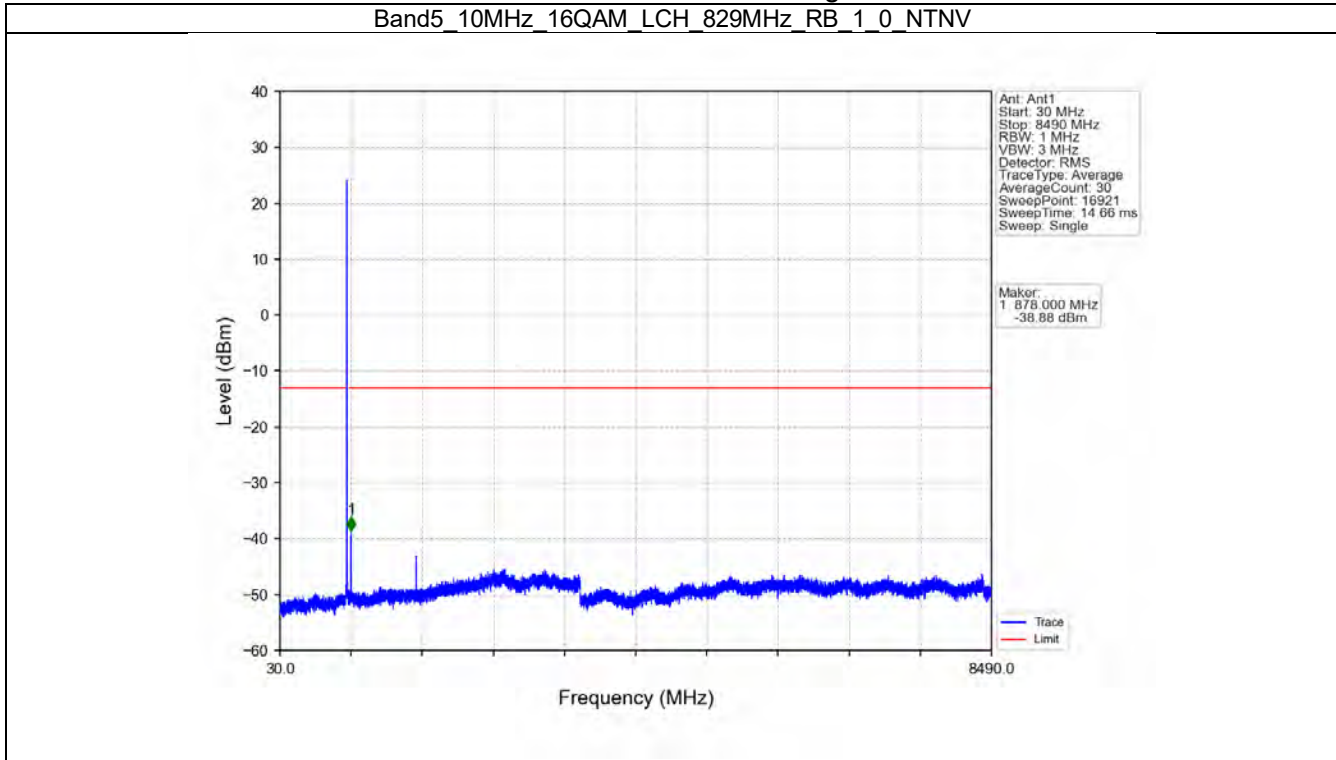
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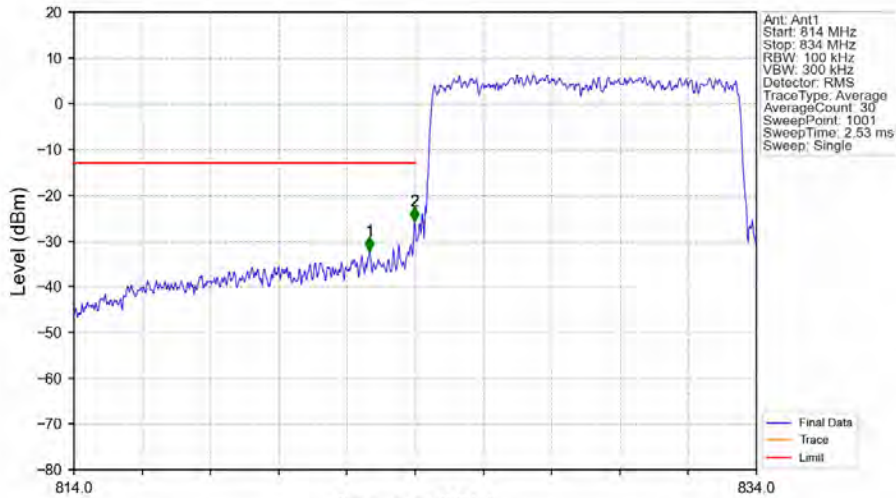
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Band5_10MHz_16QAM_LCH_829MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	823	0.1	/	1	822.660	-32.16	-13	Pass
823	824	0.101	/	2	823.980	-25.74	-13	Pass
824	834	0.101	/	/	/	/	/	/



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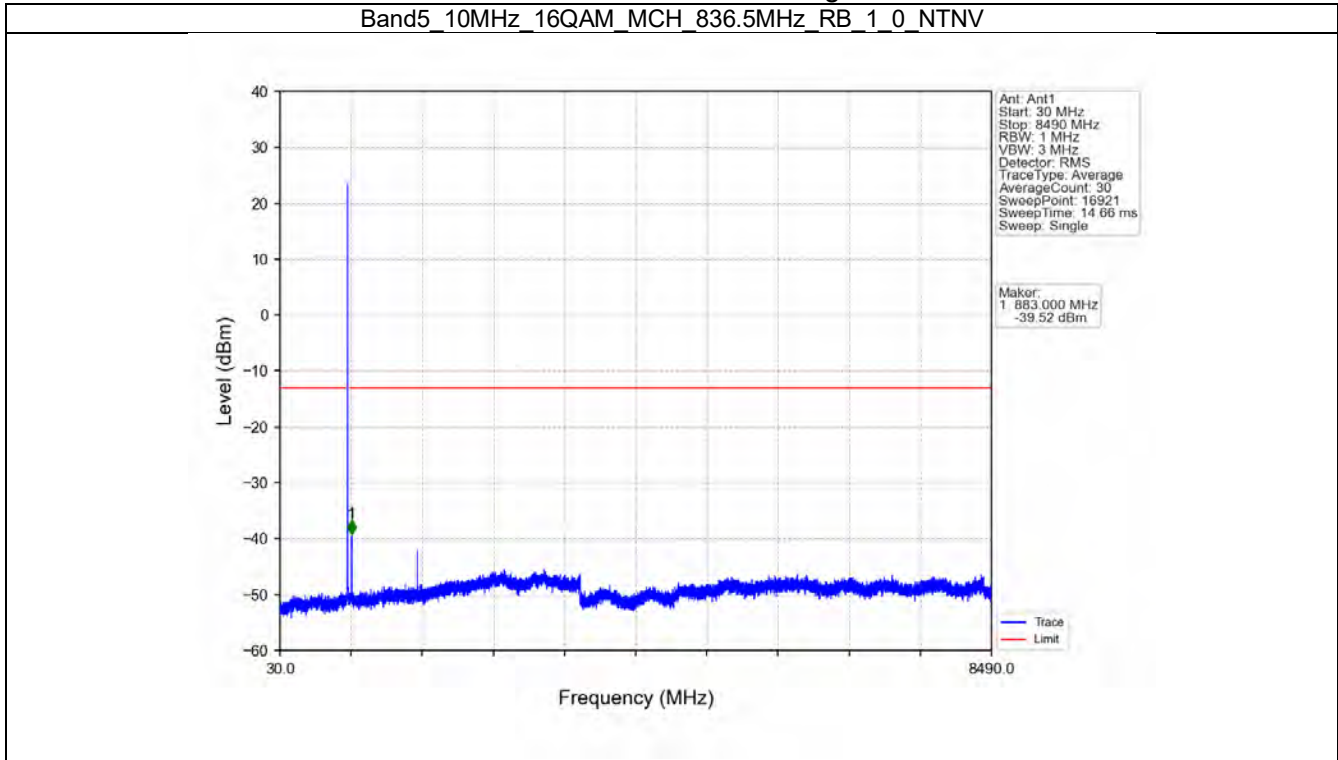
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Band5_10MHz_16QAM_MCH_836.5MHz_RB_1_0_NTNV



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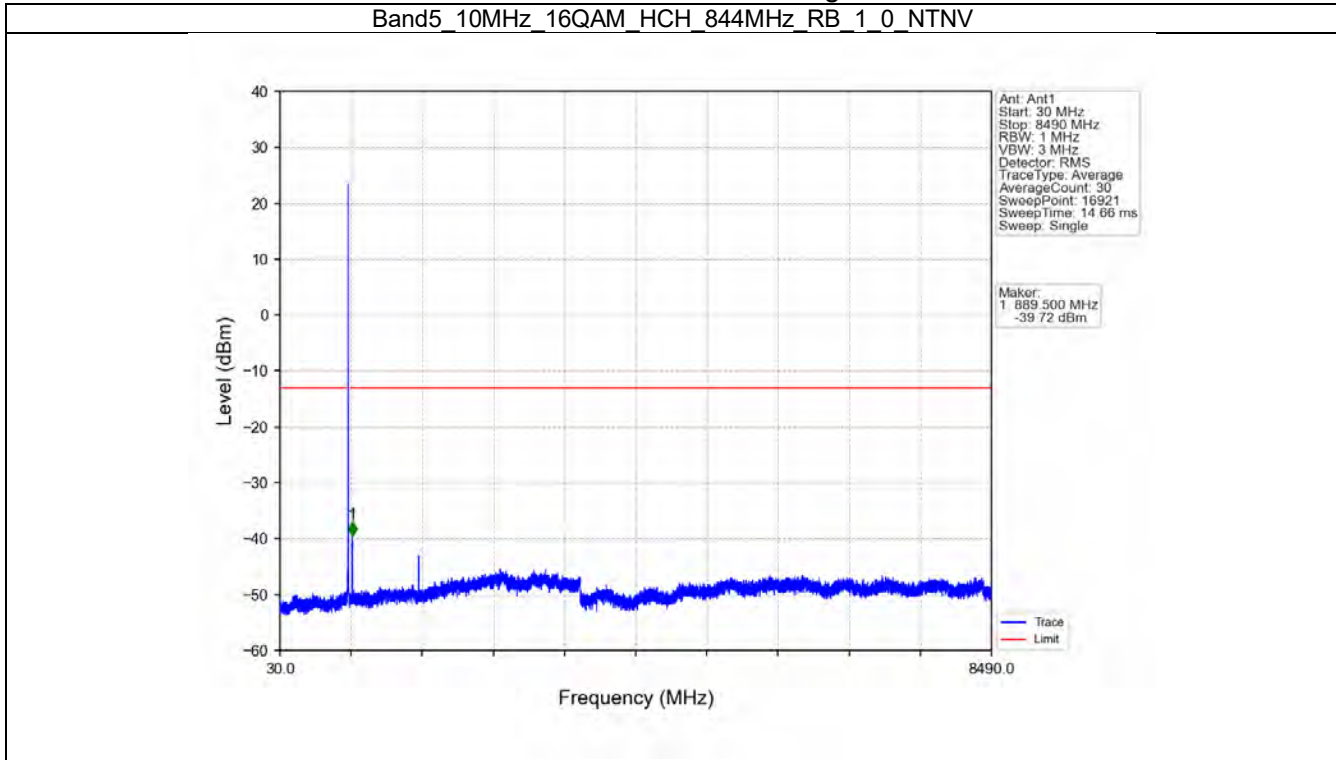
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Band5_10MHz_16QAM_HCH_844MHz_RB_1_0_NTNV



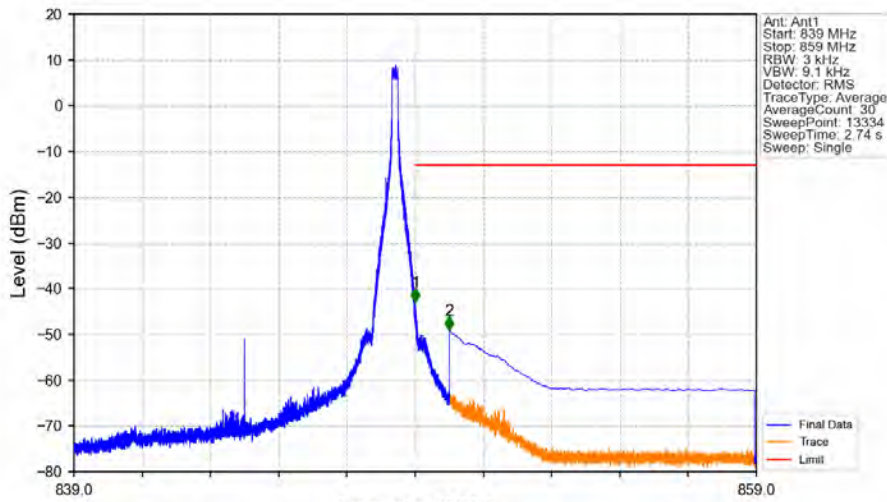
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Band5_10MHz_16QAM_HCH_844MHz_RB_1_49_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.003	/	/	/	/	/	/
849	850	0.003	/	1	849.002	-43.01	-13	Pass
850	859	0.1	CHP	2	850.001	-49.13	-13	Pass



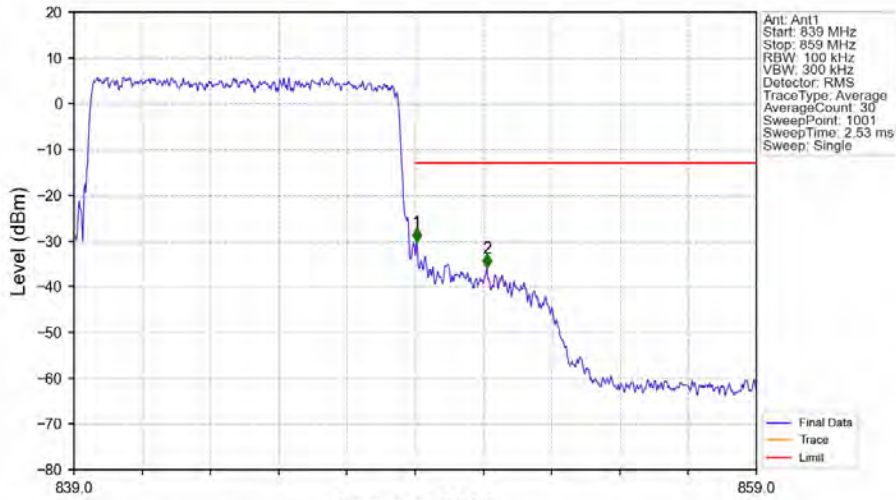
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Band5_10MHz_16QAM_HCH_844MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.102	/	1	849.040	-30.23	-13	Pass
849	850	0.102	/					
850	859	0.1	/	2	851.100	-35.94	-13	Pass



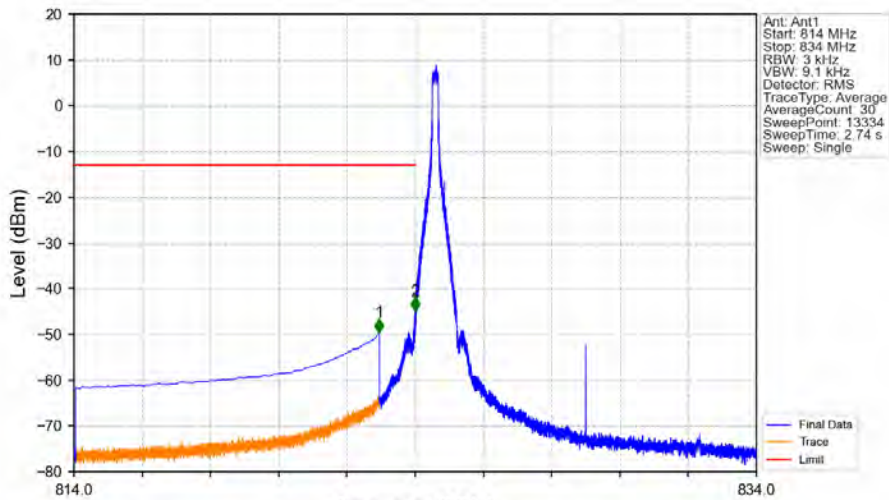
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Band5_10MHz_64QAM_LCH_829MHz_RB_1_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	823	0.1	CHP	1	822.946	-49.57	-13	Pass
823	824	0.003	/	2	823.996	-44.92	-13	Pass
824	834	0.003	/	/	/	/	/	/



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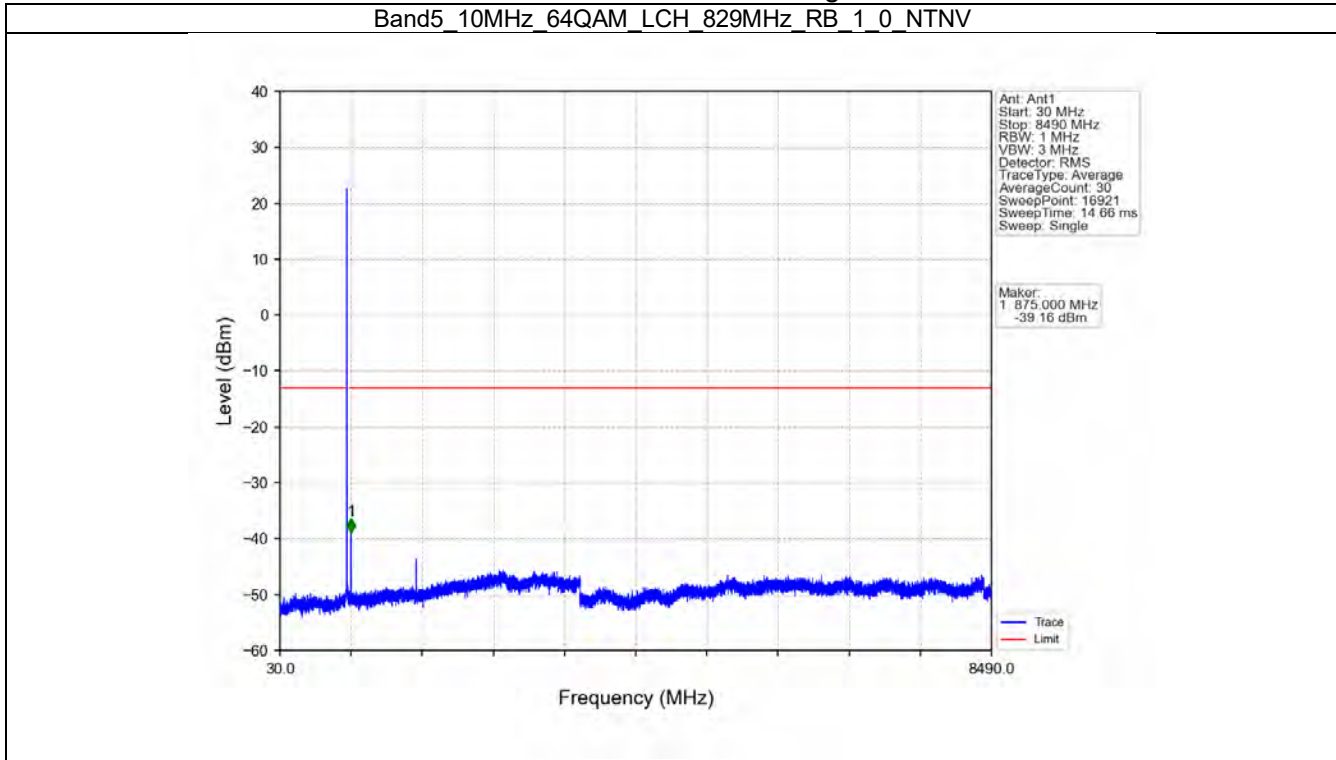
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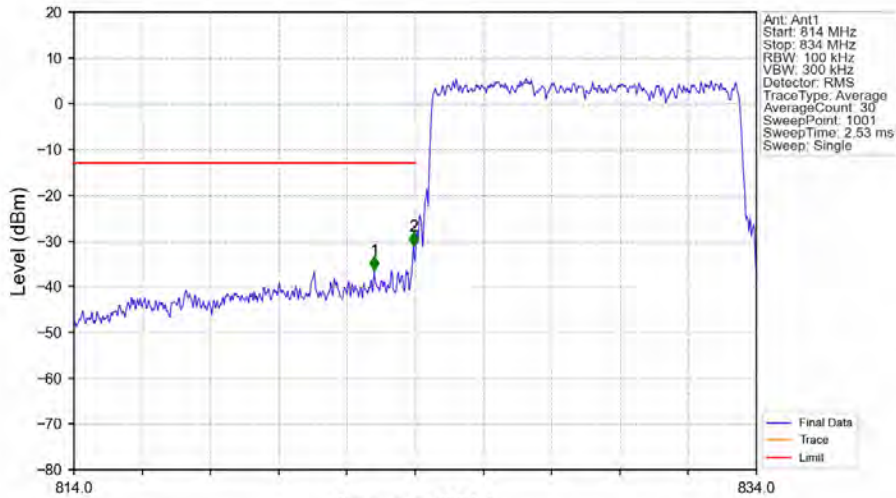
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Band5_10MHz_64QAM_LCH_829MHz_RB_50_0_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	823	0.1	/	1	822.800	-36.39	-13	Pass
823	824	0.103	/	2	823.960	-31.22	-13	Pass
824	834	0.103	/	/	/	/	/	/



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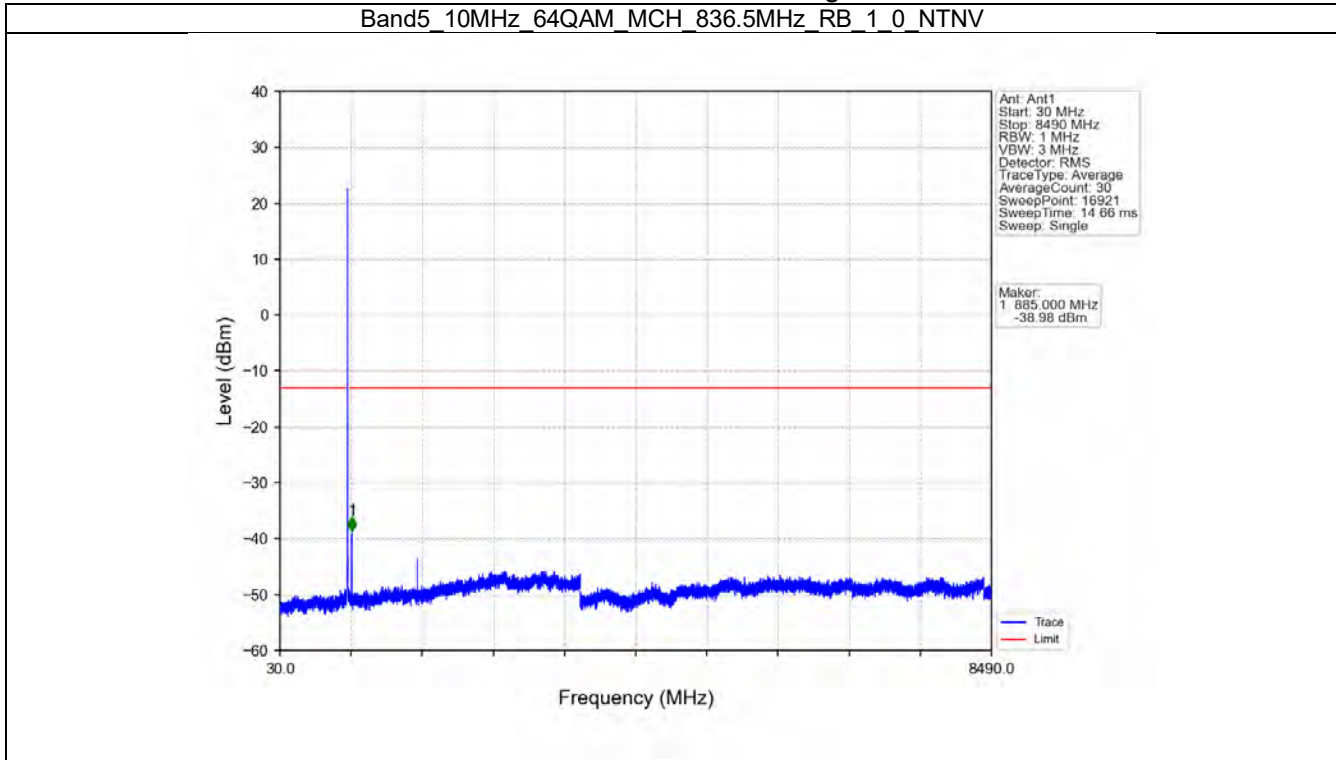
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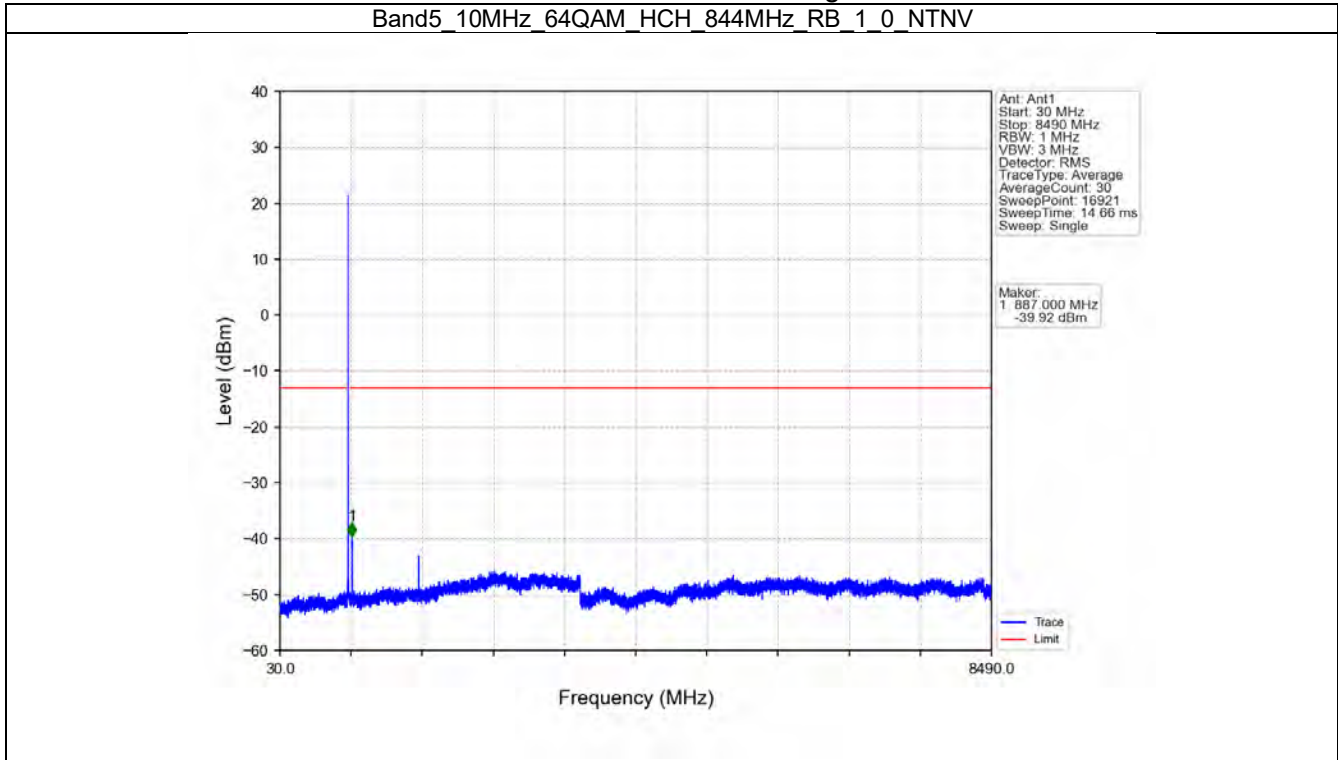
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Band5_10MHz_64QAM_HCH_844MHz_RB_1_0_NTNV



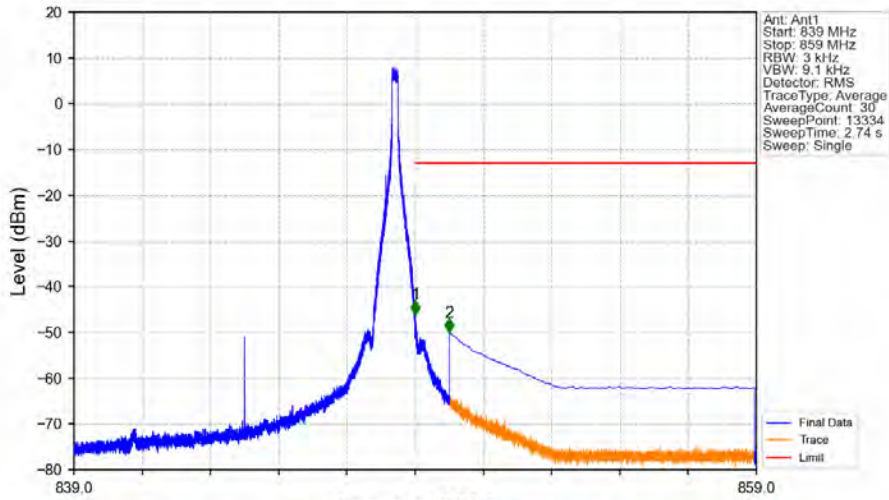
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.003	/	1	849.002	-46.06	-13	Pass
849	850	0.003	/	1	849.002	-46.06	-13	Pass
850	859	0.1	CHP	2	850.001	-50.01	-13	Pass



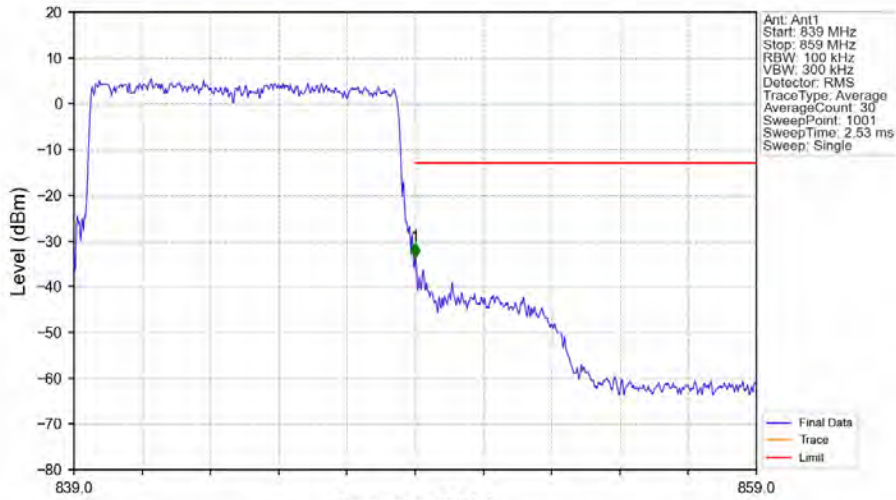
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Start (MHz)	Stop (MHz)	RBW (MHz)	Method	Marker No	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.1	/	/	/	/	/	/
849	859	0.1	/	1	849.000	-33.55	-13	Pass



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6. Field Strength of Spurious Radiation

Test Band = LTE Band 5_ TM1

Test Channel = Low Channel _ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.18	46.11	-49.83	25.30	-73.68	-13.00	60.68	Horizontal
2	2473.77	44.17	-49.05	27.27	-72.87	-13.00	59.87	Horizontal
3	3298.36	44.43	-48.63	28.62	-70.84	-13.00	57.84	Horizontal
4	4122.95	42.71	-48.28	29.62	-71.21	-13.00	58.21	Horizontal
5	4947.54	43.47	-48.07	31.37	-68.49	-13.00	55.49	Horizontal
6	5772.13	42.93	-47.66	32.75	-67.23	-13.00	54.23	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1649.18	45.47	-49.83	25.30	-74.32	-13.00	61.32	Vertical
2	2473.77	45.44	-49.05	27.27	-71.60	-13.00	58.60	Vertical
3	3298.36	44.34	-48.63	28.62	-70.93	-13.00	57.93	Vertical
4	4122.95	43.46	-48.28	29.62	-70.46	-13.00	57.46	Vertical
5	4947.54	43.16	-48.07	31.37	-68.80	-13.00	55.80	Vertical
6	5772.13	42.86	-47.66	32.75	-67.30	-13.00	54.30	Vertical



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Test Band = LTE Band 5_ TM1
 Test Channel = Mid Channel _ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664.18	45.87	-49.79	25.36	-73.83	-13.00	60.83	Horizontal
2	2496.27	43.91	-48.92	27.30	-72.97	-13.00	59.97	Horizontal
3	3328.36	44.91	-48.65	28.63	-70.37	-13.00	57.37	Horizontal
4	4160.45	44.09	-48.32	29.69	-69.80	-13.00	56.80	Horizontal
5	4992.54	44.01	-47.97	31.48	-67.74	-13.00	54.74	Horizontal
6	5824.63	42.99	-47.55	32.76	-67.05	-13.00	54.05	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1664.18	44.96	-49.79	25.36	-74.74	-13.00	61.74	Vertical
2	2496.27	43.80	-48.92	27.30	-73.08	-13.00	60.08	Vertical
3	3328.36	44.24	-48.65	28.63	-71.04	-13.00	58.04	Vertical
4	4160.45	43.15	-48.32	29.69	-70.74	-13.00	57.74	Vertical
5	4992.54	43.31	-47.97	31.48	-68.44	-13.00	55.44	Vertical
6	5824.63	42.94	-47.55	32.76	-67.10	-13.00	54.10	Vertical



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Test Band = LTE Band 5_ TM1
 Test Channel = High Channel _ Worse ANT

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.18	48.29	-49.76	25.42	-71.31	-13.00	58.31	Horizontal
2	2518.77	44.74	-48.95	27.35	-72.13	-13.00	59.13	Horizontal
3	3358.36	44.44	-48.67	28.64	-70.84	-13.00	57.84	Horizontal
4	4197.95	44.04	-48.36	29.76	-69.82	-13.00	56.82	Horizontal
5	5037.54	43.62	-47.94	31.59	-67.99	-13.00	54.99	Horizontal
6	5887.13	42.70	-47.11	32.78	-66.89	-13.00	53.89	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1679.18	44.49	-49.76	25.42	-75.11	-13.00	62.11	Vertical
2	2518.77	44.48	-48.95	27.35	-72.39	-13.00	59.39	Vertical
3	3358.36	44.23	-48.67	28.64	-71.05	-13.00	58.05	Vertical
4	4197.95	44.15	-48.36	29.76	-69.71	-13.00	56.71	Vertical
5	5037.54	43.91	-47.94	31.59	-67.70	-13.00	54.70	Vertical
6	5887.13	42.79	-47.11	32.78	-66.80	-13.00	53.80	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

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

---End of Attachment---



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