

Appendix C for KSCR2207001105AT-FCC-LTE-Band5

1. Effective (Isotropic) Radiated Power Output Data

1.1 B5\_1.4MHz\_ERP

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	23.14	-2.25	18.74	<=38.45	Pass
			2	23.25	-2.25	18.85	<=38.45	Pass
			5	23.15	-2.25	18.75	<=38.45	Pass
		3	0	23.23	-2.25	18.83	<=38.45	Pass
			2	23.27	-2.25	18.87	<=38.45	Pass
			3	23.24	-2.25	18.84	<=38.45	Pass
		6	0	22.22	-2.25	17.82	<=38.45	Pass
			0	23.15	-2.25	18.75	<=38.45	Pass
			2	23.27	-2.25	18.87	<=38.45	Pass
	836.5	1	0	23.15	-2.25	18.75	<=38.45	Pass
			2	23.27	-2.25	18.87	<=38.45	Pass
			5	23.15	-2.25	18.75	<=38.45	Pass
		3	0	23.29	-2.25	18.89	<=38.45	Pass
			2	23.32	-2.25	18.92	<=38.45	Pass
			3	23.26	-2.25	18.86	<=38.45	Pass
		6	0	22.30	-2.25	17.90	<=38.45	Pass
			0	23.06	-2.25	18.66	<=38.45	Pass
			2	23.20	-2.25	18.80	<=38.45	Pass
	848.3	1	0	23.11	-2.25	18.71	<=38.45	Pass
			2	23.23	-2.25	18.83	<=38.45	Pass
			5	23.24	-2.25	18.84	<=38.45	Pass
		3	0	23.20	-2.25	18.80	<=38.45	Pass
			2	23.24	-2.25	18.84	<=38.45	Pass
			3	23.20	-2.25	18.80	<=38.45	Pass
		6	0	22.22	-2.25	17.82	<=38.45	Pass
			0	22.17	-2.25	17.77	<=38.45	Pass
			2	22.30	-2.25	17.90	<=38.45	Pass
16QAM	824.7	1	0	22.30	-2.25	17.84	<=38.45	Pass
			2	22.24	-2.25	17.84	<=38.45	Pass
			5	22.24	-2.25	17.84	<=38.45	Pass
		3	0	22.30	-2.25	17.90	<=38.45	Pass
			2	22.33	-2.25	17.93	<=38.45	Pass
			3	22.30	-2.25	17.90	<=38.45	Pass
		6	0	21.17	-2.25	16.77	<=38.45	Pass
			0	22.24	-2.25	17.84	<=38.45	Pass
			2	22.30	-2.25	17.90	<=38.45	Pass
	836.5	1	0	22.24	-2.25	17.84	<=38.45	Pass
			5	22.24	-2.25	17.84	<=38.45	Pass
			0	22.51	-2.25	18.11	<=38.45	Pass
		3	2	22.54	-2.25	18.14	<=38.45	Pass
			3	22.50	-2.25	18.10	<=38.45	Pass
			0	21.35	-2.25	16.95	<=38.45	Pass
		6	0	22.24	-2.25	17.84	<=38.45	Pass
			2	22.39	-2.25	17.99	<=38.45	Pass
			5	22.27	-2.25	17.87	<=38.45	Pass
	848.3	1	0	22.17	-2.25	17.77	<=38.45	Pass
			2	22.10	-2.25	17.70	<=38.45	Pass
			3	22.16	-2.25	17.76	<=38.45	Pass

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64QAM	824.7	6	0	21.26	-2.25	16.86	<=38.45	Pass	
			1	0	21.04	-2.25	16.64	<=38.45	Pass
				2	21.11	-2.25	16.71	<=38.45	Pass
		3	5	21.10	-2.25	16.70	<=38.45	Pass	
			0	21.21	-2.25	16.81	<=38.45	Pass	
			2	21.24	-2.25	16.84	<=38.45	Pass	
		6	3	21.31	-2.25	16.91	<=38.45	Pass	
			0	20.32	-2.25	15.92	<=38.45	Pass	
			0	21.60	-2.25	17.20	<=38.45	Pass	
	836.5	1	2	21.77	-2.25	17.37	<=38.45	Pass	
			5	21.62	-2.25	17.22	<=38.45	Pass	
			0	21.52	-2.25	17.12	<=38.45	Pass	
		3	2	21.54	-2.25	17.14	<=38.45	Pass	
			3	21.51	-2.25	17.11	<=38.45	Pass	
			0	20.31	-2.25	15.91	<=38.45	Pass	
		848.3	1	0	21.18	-2.25	16.78	<=38.45	Pass
				2	21.36	-2.25	16.96	<=38.45	Pass
				5	21.16	-2.25	16.76	<=38.45	Pass
	3		0	21.44	-2.25	17.04	<=38.45	Pass	
			2	21.45	-2.25	17.05	<=38.45	Pass	
			3	21.41	-2.25	17.01	<=38.45	Pass	
	6		0	20.45	-2.25	16.05	<=38.45	Pass	

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 1.2 B5\_3MHz\_ERP

### 1.2.1 Test Result

Band: 5 / Bandwidth: 3MHz / NTVN									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dbi)	ERP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	825.5	1	0	23.15	-2.25	18.74	<=38.45	Pass	
			7	23.30	-2.25	18.85	<=38.45	Pass	
			14	23.13	-2.25	18.75	<=38.45	Pass	
		8	0	22.22	-2.25	18.83	<=38.45	Pass	
			4	22.24	-2.25	18.87	<=38.45	Pass	
			7	22.21	-2.25	18.84	<=38.45	Pass	
		15	0	22.24	-2.25	17.82	<=38.45	Pass	
		836.5	1	0	23.22	-2.25	18.75	<=38.45	Pass
				7	23.38	-2.25	18.87	<=38.45	Pass
	14			23.22	-2.25	18.75	<=38.45	Pass	
	8		0	22.29	-2.25	18.89	<=38.45	Pass	
			4	22.33	-2.25	18.92	<=38.45	Pass	
			7	22.27	-2.25	18.86	<=38.45	Pass	
	15		0	22.28	-2.25	17.90	<=38.45	Pass	
	847.5		1	0	23.22	-2.25	18.66	<=38.45	Pass
				7	23.34	-2.25	18.80	<=38.45	Pass
		14		23.21	-2.25	18.71	<=38.45	Pass	
		8	0	22.18	-2.25	18.83	<=38.45	Pass	
			4	22.21	-2.25	18.84	<=38.45	Pass	
			7	22.14	-2.25	18.80	<=38.45	Pass	
		15	0	22.15	-2.25	17.82	<=38.45	Pass	

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16QAM	825.5	1	0	22.76	-2.25	17.77	<=38.45	Pass		
			7	22.90	-2.25	17.90	<=38.45	Pass		
			14	22.79	-2.25	17.84	<=38.45	Pass		
		8	0	21.38	-2.25	17.90	<=38.45	Pass		
			4	21.42	-2.25	17.93	<=38.45	Pass		
			7	21.38	-2.25	17.90	<=38.45	Pass		
		15	0	21.31	-2.25	16.77	<=38.45	Pass		
		836.5	1	0	22.44	-2.25	17.84	<=38.45	Pass	
				7	22.61	-2.25	17.90	<=38.45	Pass	
	14			22.40	-2.25	17.84	<=38.45	Pass		
	8		0	21.27	-2.25	18.11	<=38.45	Pass		
			4	21.30	-2.25	18.14	<=38.45	Pass		
			7	21.25	-2.25	18.10	<=38.45	Pass		
	15		0	21.24	-2.25	16.95	<=38.45	Pass		
	847.5		1	0	22.24	-2.25	17.84	<=38.45	Pass	
				7	22.35	-2.25	17.99	<=38.45	Pass	
		14		22.14	-2.25	17.87	<=38.45	Pass		
		8	0	21.27	-2.25	17.77	<=38.45	Pass		
			4	21.32	-2.25	17.70	<=38.45	Pass		
			7	21.22	-2.25	17.76	<=38.45	Pass		
		15	0	21.27	-2.25	16.86	<=38.45	Pass		
		64QAM	825.5	1	0	21.42	-2.25	16.64	<=38.45	Pass
					7	21.57	-2.25	16.71	<=38.45	Pass
	14				21.42	-2.25	16.70	<=38.45	Pass	
8	0			20.38	-2.25	16.81	<=38.45	Pass		
	4			20.38	-2.25	16.84	<=38.45	Pass		
	7			20.37	-2.25	16.91	<=38.45	Pass		
15	0			20.23	-2.25	15.92	<=38.45	Pass		
836.5	1			0	21.34	-2.25	17.20	<=38.45	Pass	
				7	21.50	-2.25	17.37	<=38.45	Pass	
			14	21.35	-2.25	17.22	<=38.45	Pass		
	8		0	20.17	-2.25	17.12	<=38.45	Pass		
			4	20.20	-2.25	17.14	<=38.45	Pass		
			7	20.14	-2.25	17.11	<=38.45	Pass		
	15		0	20.39	-2.25	15.91	<=38.45	Pass		
	847.5		1	0	21.13	-2.25	16.78	<=38.45	Pass	
				7	21.22	-2.25	16.96	<=38.45	Pass	
14				20.99	-2.25	16.76	<=38.45	Pass		
8			0	20.24	-2.25	17.04	<=38.45	Pass		
			4	20.26	-2.25	17.05	<=38.45	Pass		
			7	20.19	-2.25	17.01	<=38.45	Pass		
15			0	20.25	-2.25	16.05	<=38.45	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

### 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	23.06	-2.25	18.66	<=38.45	Pass



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		12	13	23.23	-2.25	18.83	<=38.45	Pass		
			24	23.15	-2.25	18.75	<=38.45	Pass		
			0	22.25	-2.25	17.85	<=38.45	Pass		
			6	22.27	-2.25	17.87	<=38.45	Pass		
			13	22.23	-2.25	17.83	<=38.45	Pass		
		25	0	22.25	-2.25	17.85	<=38.45	Pass		
		836.5	1	0	23.19	-2.25	18.79	<=38.45	Pass	
				13	23.27	-2.25	18.87	<=38.45	Pass	
				24	23.11	-2.25	18.71	<=38.45	Pass	
			12	0	22.18	-2.25	17.78	<=38.45	Pass	
	6			22.31	-2.25	17.91	<=38.45	Pass		
	25	0	22.25	-2.25	17.85	<=38.45	Pass			
	846.5	1	0	23.14	-2.25	18.74	<=38.45	Pass		
			13	23.18	-2.25	18.78	<=38.45	Pass		
			24	23.04	-2.25	18.64	<=38.45	Pass		
		12	0	22.11	-2.25	17.71	<=38.45	Pass		
			6	22.21	-2.25	17.81	<=38.45	Pass		
			13	22.07	-2.25	17.67	<=38.45	Pass		
		25	0	22.09	-2.25	17.69	<=38.45	Pass		
		16QAM	826.5	1	0	22.23	-2.25	17.83	<=38.45	Pass
					13	22.38	-2.25	17.98	<=38.45	Pass
	24				22.28	-2.25	17.88	<=38.45	Pass	
	12			0	21.25	-2.25	16.85	<=38.45	Pass	
				6	21.25	-2.25	16.85	<=38.45	Pass	
				13	21.22	-2.25	16.82	<=38.45	Pass	
25	0			21.30	-2.25	16.90	<=38.45	Pass		
836.5	1			0	22.08	-2.25	17.68	<=38.45	Pass	
				13	22.18	-2.25	17.78	<=38.45	Pass	
			24	22.03	-2.25	17.63	<=38.45	Pass		
	12		0	21.23	-2.25	16.83	<=38.45	Pass		
			6	21.30	-2.25	16.90	<=38.45	Pass		
			13	21.25	-2.25	16.85	<=38.45	Pass		
	25		0	21.28	-2.25	16.88	<=38.45	Pass		
	846.5		1	0	22.40	-2.25	18.00	<=38.45	Pass	
				13	22.48	-2.25	18.08	<=38.45	Pass	
24				22.27	-2.25	17.87	<=38.45	Pass		
12			0	21.18	-2.25	16.78	<=38.45	Pass		
			6	21.29	-2.25	16.89	<=38.45	Pass		
			13	21.14	-2.25	16.74	<=38.45	Pass		
25			0	21.13	-2.25	16.73	<=38.45	Pass		
64QAM	826.5		1	0	21.32	-2.25	16.92	<=38.45	Pass	
				13	21.44	-2.25	17.04	<=38.45	Pass	
				24	21.33	-2.25	16.93	<=38.45	Pass	
			12	0	20.34	-2.25	15.94	<=38.45	Pass	
		6		20.37	-2.25	15.97	<=38.45	Pass		
		13		20.35	-2.25	15.95	<=38.45	Pass		
		25	0	20.25	-2.25	15.85	<=38.45	Pass		
		836.5	1	0	21.14	-2.25	16.74	<=38.45	Pass	
				13	21.29	-2.25	16.89	<=38.45	Pass	
	24			21.11	-2.25	16.71	<=38.45	Pass		
	12		0	20.18	-2.25	15.78	<=38.45	Pass		
			6	20.22	-2.25	15.82	<=38.45	Pass		
			13	20.15	-2.25	15.75	<=38.45	Pass		



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	846.5	25	0	20.28	-2.25	15.88	<=38.45	Pass
		1	0	21.34	-2.25	16.94	<=38.45	Pass
			13	21.39	-2.25	16.99	<=38.45	Pass
			24	21.21	-2.25	16.81	<=38.45	Pass
			0	20.18	-2.25	15.78	<=38.45	Pass
		12	6	20.24	-2.25	15.84	<=38.45	Pass
			13	20.12	-2.25	15.72	<=38.45	Pass
			25	0	20.20	-2.25	15.80	<=38.45

Note1: ERP=Conducted Power+Antenna Gain-2.15

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	23.15	-2.25	18.75	<=38.45	Pass		
			25	23.34	-2.25	18.94	<=38.45	Pass		
			49	23.15	-2.25	18.75	<=38.45	Pass		
		25	0	22.32	-2.25	17.92	<=38.45	Pass		
			13	22.30	-2.25	17.90	<=38.45	Pass		
			25	22.43	-2.25	18.03	<=38.45	Pass		
		50	0	22.39	-2.25	17.99	<=38.45	Pass		
		836.5	1	0	23.26	-2.25	18.86	<=38.45	Pass	
				25	23.39	-2.25	18.99	<=38.45	Pass	
	49			23.16	-2.25	18.76	<=38.45	Pass		
	25		0	22.22	-2.25	17.82	<=38.45	Pass		
			13	22.31	-2.25	17.91	<=38.45	Pass		
			25	22.28	-2.25	17.88	<=38.45	Pass		
	50	0	22.24	-2.25	17.84	<=38.45	Pass			
	844	1	0	23.26	-2.25	18.86	<=38.45	Pass		
			25	23.34	-2.25	18.94	<=38.45	Pass		
			49	23.15	-2.25	18.75	<=38.45	Pass		
		25	0	22.42	-2.25	18.02	<=38.45	Pass		
			13	22.24	-2.25	17.84	<=38.45	Pass		
			25	22.20	-2.25	17.80	<=38.45	Pass		
		50	0	22.30	-2.25	17.90	<=38.45	Pass		
		16QAM	829	1	0	22.75	-2.25	18.35	<=38.45	Pass
					25	23.02	-2.25	18.62	<=38.45	Pass
	49				22.83	-2.25	18.43	<=38.45	Pass	
25	0			21.41	-2.25	17.01	<=38.45	Pass		
	13			21.35	-2.25	16.95	<=38.45	Pass		
	25			21.49	-2.25	17.09	<=38.45	Pass		
50	0		21.42	-2.25	17.02	<=38.45	Pass			
836.5	1		0	22.45	-2.25	18.05	<=38.45	Pass		
			25	22.62	-2.25	18.22	<=38.45	Pass		
			49	22.39	-2.25	17.99	<=38.45	Pass		
	25		0	21.25	-2.25	16.85	<=38.45	Pass		
			13	21.35	-2.25	16.95	<=38.45	Pass		
			25	21.30	-2.25	16.90	<=38.45	Pass		
	50		0	21.26	-2.25	16.86	<=38.45	Pass		

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64QAM	844	1	0	22.32	-2.25	17.92	<=38.45	Pass	
			25	22.44	-2.25	18.04	<=38.45	Pass	
			49	22.13	-2.25	17.73	<=38.45	Pass	
		25	0	21.49	-2.25	17.09	<=38.45	Pass	
			13	21.40	-2.25	17.00	<=38.45	Pass	
			25	21.33	-2.25	16.93	<=38.45	Pass	
	50	0	21.41	-2.25	17.01	<=38.45	Pass		
	829	1	0	21.47	-2.25	17.07	<=38.45	Pass	
				25	21.72	-2.25	17.32	<=38.45	Pass
				49	21.45	-2.25	17.05	<=38.45	Pass
			25	0	20.42	-2.25	16.02	<=38.45	Pass
				13	20.36	-2.25	15.96	<=38.45	Pass
				25	20.47	-2.25	16.07	<=38.45	Pass
		50	0	20.43	-2.25	16.03	<=38.45	Pass	
		836.5	1	0	21.39	-2.25	16.99	<=38.45	Pass
25					21.51	-2.25	17.11	<=38.45	Pass
49					21.27	-2.25	16.87	<=38.45	Pass
25			0	20.36	-2.25	15.96	<=38.45	Pass	
				13	20.42	-2.25	16.02	<=38.45	Pass
				25	20.38	-2.25	15.98	<=38.45	Pass
50			0	20.28	-2.25	15.88	<=38.45	Pass	
844			1	0	21.12	-2.25	16.72	<=38.45	Pass
					25	21.26	-2.25	16.86	<=38.45
		49			20.99	-2.25	16.59	<=38.45	Pass
		25	0	20.50	-2.25	16.10	<=38.45	Pass	
	13			20.39	-2.25	15.99	<=38.45	Pass	
	25			20.33	-2.25	15.93	<=38.45	Pass	
	50	0	20.41	-2.25	16.01	<=38.45	Pass		

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 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	3.23	-1.974	-0.0024	-2.5 to 2.5	Pass			
					3.80	-1.588	-0.0019	-2.5 to 2.5	Pass			
					4.37	-1.245	-0.0015	-2.5 to 2.5	Pass			
				-30	3.80	-1.845	-0.0022	-2.5 to 2.5	Pass			
					-20	3.80	-1.402	-0.0017	-2.5 to 2.5	Pass		
						-10	3.80	-1.945	-0.0024	-2.5 to 2.5	Pass	
				0	3.80	-1.574	-0.0019	-2.5 to 2.5	Pass			
					10	3.80	-1.674	-0.0020	-2.5 to 2.5	Pass		
				30	3.80	-1.187	-0.0014	-2.5 to 2.5	Pass			
					40	3.80	-1.459	-0.0018	-2.5 to 2.5	Pass		
				50	3.80	-0.515	-0.0006	-2.5 to 2.5	Pass			
				836.5	6	0	20	3.23	0.114	0.0001	-2.5 to 2.5	Pass

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					3.80	0.300	0.0004	-2.5 to 2.5	Pass						
					4.37	-0.515	-0.0006	-2.5 to 2.5	Pass						
					-30	3.80	-0.644	-0.0008	-2.5 to 2.5	Pass					
					-20	3.80	-0.157	-0.0002	-2.5 to 2.5	Pass					
					-10	3.80	-0.372	-0.0004	-2.5 to 2.5	Pass					
					0	3.80	-0.386	-0.0005	-2.5 to 2.5	Pass					
					10	3.80	-0.315	-0.0004	-2.5 to 2.5	Pass					
					30	3.80	0.272	0.0003	-2.5 to 2.5	Pass					
					40	3.80	-0.315	-0.0004	-2.5 to 2.5	Pass					
					50	3.80	0.243	0.0003	-2.5 to 2.5	Pass					
					848.3	6	0			20	3.23	-0.157	-0.0002	-2.5 to 2.5	Pass
										3.80	0.429	0.0005	-2.5 to 2.5	Pass	
										4.37	0.057	0.0001	-2.5 to 2.5	Pass	
										-30	3.80	0.114	0.0001	-2.5 to 2.5	Pass
										-20	3.80	-0.200	-0.0002	-2.5 to 2.5	Pass
										-10	3.80	-0.029	0.0000	-2.5 to 2.5	Pass
										0	3.80	0.172	0.0002	-2.5 to 2.5	Pass
										10	3.80	0.143	0.0002	-2.5 to 2.5	Pass
30	3.80	0.300	0.0004	-2.5 to 2.5						Pass					
40	3.80	0.758	0.0009	-2.5 to 2.5						Pass					
50	3.80	0.343	0.0004	-2.5 to 2.5	Pass										
16QAM	824.7	6	0			20	3.23	-1.717	-0.0021	-2.5 to 2.5	Pass				
						3.80	-1.702	-0.0021	-2.5 to 2.5	Pass					
						4.37	-1.960	-0.0024	-2.5 to 2.5	Pass					
						-30	3.80	-0.057	-0.0001	-2.5 to 2.5	Pass				
						-20	3.80	-0.901	-0.0011	-2.5 to 2.5	Pass				
						-10	3.80	-2.089	-0.0025	-2.5 to 2.5	Pass				
						0	3.80	-3.233	-0.0039	-2.5 to 2.5	Pass				
						10	3.80	-1.645	-0.0020	-2.5 to 2.5	Pass				
						30	3.80	-1.345	-0.0016	-2.5 to 2.5	Pass				
						40	3.80	-1.702	-0.0021	-2.5 to 2.5	Pass				
	50	3.80	-1.688	-0.0020	-2.5 to 2.5	Pass									
	836.5	6	0				20	3.23	-0.243	-0.0003	-2.5 to 2.5	Pass			
							3.80	-0.243	-0.0003	-2.5 to 2.5	Pass				
							4.37	-0.730	-0.0009	-2.5 to 2.5	Pass				
							-30	3.80	-0.372	-0.0004	-2.5 to 2.5	Pass			
							-20	3.80	-0.844	-0.0010	-2.5 to 2.5	Pass			
							-10	3.80	-1.245	-0.0015	-2.5 to 2.5	Pass			
							0	3.80	-1.431	-0.0017	-2.5 to 2.5	Pass			
10							3.80	-0.615	-0.0007	-2.5 to 2.5	Pass				
848.3	6	0				20	3.23	-0.944	-0.0011	-2.5 to 2.5	Pass				
						3.80	-1.559	-0.0018	-2.5 to 2.5	Pass					
						4.37	-1.373	-0.0016	-2.5 to 2.5	Pass					
						-30	3.80	-1.230	-0.0014	-2.5 to 2.5	Pass				
						-20	3.80	-0.544	-0.0006	-2.5 to 2.5	Pass				
						-10	3.80	-0.386	-0.0005	-2.5 to 2.5	Pass				
						0	3.80	-0.486	-0.0006	-2.5 to 2.5	Pass				
						10	3.80	-1.202	-0.0014	-2.5 to 2.5	Pass				
						30	3.80	-0.658	-0.0008	-2.5 to 2.5	Pass				
						40	3.80	-0.300	-0.0004	-2.5 to 2.5	Pass				
50	3.80	-0.143	-0.0002	-2.5 to 2.5	Pass										

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64QAM	824.7	6	0	20	3.23	-0.987	-0.0012	-2.5 to 2.5	Pass				
					3.80	-1.216	-0.0015	-2.5 to 2.5	Pass				
					4.37	0.029	0.0000	-2.5 to 2.5	Pass				
				-30	3.80	-0.901	-0.0011	-2.5 to 2.5	Pass				
					-20	3.80	-1.602	-0.0019	-2.5 to 2.5	Pass			
						-10	3.80	-1.931	-0.0023	-2.5 to 2.5	Pass		
				836.5	6	0	20	3.80	0.858	0.0010	-2.5 to 2.5	Pass	
								10	3.80	-2.303	-0.0028	-2.5 to 2.5	Pass
								30	3.80	-2.975	-0.0036	-2.5 to 2.5	Pass
	-30	3.80	1.488				0.0018	-2.5 to 2.5	Pass				
		-20	3.80				-0.329	-0.0004	-2.5 to 2.5	Pass			
			-10				3.80	-0.415	-0.0005	-2.5 to 2.5	Pass		
	848.3	6	0				20	3.80	-3.934	-0.0047	-2.5 to 2.5	Pass	
								4.37	-3.061	-0.0037	-2.5 to 2.5	Pass	
				-30	3.80	-2.718		-0.0032	-2.5 to 2.5	Pass			
				-20	3.80	-2.418	-0.0029	-2.5 to 2.5	Pass				
					-10	3.80	-4.148	-0.0050	-2.5 to 2.5	Pass			
					0	3.80	-0.315	-0.0004	-2.5 to 2.5	Pass			
				848.3	6	0	20	10	3.80	-3.104	-0.0037	-2.5 to 2.5	Pass
								30	3.80	-1.845	-0.0022	-2.5 to 2.5	Pass
	40	3.80	-4.950					-0.0059	-2.5 to 2.5	Pass			
	-30	3.80	-5.479				-0.0065	-2.5 to 2.5	Pass				
		-20	3.23				-2.303	-0.0027	-2.5 to 2.5	Pass			
			3.80				-0.501	-0.0006	-2.5 to 2.5	Pass			
	848.3	6	0				20	4.37	-5.779	-0.0068	-2.5 to 2.5	Pass	
								-30	3.80	-4.306	-0.0051	-2.5 to 2.5	Pass
				-20	3.80	-3.147		-0.0037	-2.5 to 2.5	Pass			
-10				3.80	-1.917	-0.0023	-2.5 to 2.5	Pass					
				0	3.80	-5.879	-0.0069	-2.5 to 2.5	Pass				
				10	3.80	-4.578	-0.0054	-2.5 to 2.5	Pass				
30				3.80	-6.766	-0.0080	-2.5 to 2.5	Pass					
				40	3.80	-0.057	-0.0001	-2.5 to 2.5	Pass				
50	3.80	-7.281	-0.0086	-2.5 to 2.5	Pass								

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	3.23	-0.701	-0.0008	-2.5 to 2.5	Pass	
					3.80	-0.501	-0.0006	-2.5 to 2.5	Pass	
					4.37	0.401	0.0005	-2.5 to 2.5	Pass	
				-30	3.80	1.159	0.0014	-2.5 to 2.5	Pass	
					-20	3.80	-0.515	-0.0006	-2.5 to 2.5	Pass
						-10	3.80	-0.730	-0.0009	-2.5 to 2.5
				0	3.80	-0.887	-0.0011	-2.5 to 2.5	Pass	
					10	3.80	-0.772	-0.0009	-2.5 to 2.5	Pass
					30	3.80	-0.987	-0.0012	-2.5 to 2.5	Pass
				40	3.80	0.186	0.0002	-2.5 to 2.5	Pass	
					50	3.80	-0.072	-0.0001	-2.5 to 2.5	Pass



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	836.5	15	0	20	3.23	-0.401	-0.0005	-2.5 to 2.5	Pass	
					3.80	-0.157	-0.0002	-2.5 to 2.5	Pass	
					4.37	0.243	0.0003	-2.5 to 2.5	Pass	
				-30	3.80	0.372	0.0004	-2.5 to 2.5	Pass	
					-20	3.80	-1.159	-0.0014	-2.5 to 2.5	Pass
					-10	3.80	-1.016	-0.0012	-2.5 to 2.5	Pass
				0	3.80	-0.858	-0.0010	-2.5 to 2.5	Pass	
					10	3.80	-0.744	-0.0009	-2.5 to 2.5	Pass
					30	3.80	-0.300	-0.0004	-2.5 to 2.5	Pass
	40	3.80	-0.043	-0.0001	-2.5 to 2.5	Pass				
		50	3.80	-1.416	-0.0017	-2.5 to 2.5	Pass			
		20	3.23	-0.916	-0.0011	-2.5 to 2.5	Pass			
	3.80		-1.330	-0.0016	-2.5 to 2.5	Pass				
	4.37		-0.472	-0.0006	-2.5 to 2.5	Pass				
	-30	3.80	-0.830	-0.0010	-2.5 to 2.5	Pass				
		-20	3.80	-0.701	-0.0008	-2.5 to 2.5	Pass			
		-10	3.80	-1.016	-0.0012	-2.5 to 2.5	Pass			
	0	3.80	-0.572	-0.0007	-2.5 to 2.5	Pass				
10		3.80	-0.629	-0.0007	-2.5 to 2.5	Pass				
30		3.80	-0.243	-0.0003	-2.5 to 2.5	Pass				
40	3.80	-0.343	-0.0004	-2.5 to 2.5	Pass					
	50	3.80	-0.572	-0.0007	-2.5 to 2.5	Pass				
	20	3.23	-0.057	-0.0001	-2.5 to 2.5	Pass				
3.80		0.229	0.0003	-2.5 to 2.5	Pass					
4.37		-0.415	-0.0005	-2.5 to 2.5	Pass					
-30	3.80	0.043	0.0001	-2.5 to 2.5	Pass					
	-20	3.80	0.458	0.0006	-2.5 to 2.5	Pass				
	-10	3.80	-0.157	-0.0002	-2.5 to 2.5	Pass				
0	3.80	-0.401	-0.0005	-2.5 to 2.5	Pass					
	10	3.80	-0.372	-0.0005	-2.5 to 2.5	Pass				
	30	3.80	-0.100	-0.0001	-2.5 to 2.5	Pass				
40	3.80	-0.043	-0.0001	-2.5 to 2.5	Pass					
	50	3.80	-0.873	-0.0011	-2.5 to 2.5	Pass				
	20	3.23	-1.001	-0.0012	-2.5 to 2.5	Pass				
3.80		-1.130	-0.0014	-2.5 to 2.5	Pass					
4.37		-0.343	-0.0004	-2.5 to 2.5	Pass					
-30	3.80	-0.200	-0.0002	-2.5 to 2.5	Pass					
	-20	3.80	-2.103	-0.0025	-2.5 to 2.5	Pass				
	-10	3.80	-1.459	-0.0017	-2.5 to 2.5	Pass				
0	3.80	-1.116	-0.0013	-2.5 to 2.5	Pass					
	10	3.80	-0.472	-0.0006	-2.5 to 2.5	Pass				
	30	3.80	-1.774	-0.0021	-2.5 to 2.5	Pass				
40	3.80	-1.302	-0.0016	-2.5 to 2.5	Pass					
	50	3.80	-0.472	-0.0006	-2.5 to 2.5	Pass				
	20	3.23	-1.760	-0.0021	-2.5 to 2.5	Pass				
3.80		-2.360	-0.0028	-2.5 to 2.5	Pass					
4.37		-2.532	-0.0030	-2.5 to 2.5	Pass					
-30	3.80	-2.003	-0.0024	-2.5 to 2.5	Pass					
	-20	3.80	-1.945	-0.0023	-2.5 to 2.5	Pass				
	-10	3.80	-1.988	-0.0023	-2.5 to 2.5	Pass				
0	3.80	-1.245	-0.0015	-2.5 to 2.5	Pass					
	10	3.80	-1.760	-0.0021	-2.5 to 2.5	Pass				
	30	3.80	-2.317	-0.0027	-2.5 to 2.5	Pass				
40	3.80	-1.659	-0.0020	-2.5 to 2.5	Pass					



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64QAM	825.5	15	0	50	3.80	-1.602	-0.0019	-2.5 to 2.5	Pass
				20	3.23	-2.618	-0.0032	-2.5 to 2.5	Pass
					3.80	-7.882	-0.0095	-2.5 to 2.5	Pass
					4.37	-3.848	-0.0047	-2.5 to 2.5	Pass
				-30	3.80	-3.676	-0.0045	-2.5 to 2.5	Pass
				-20	3.80	-3.190	-0.0039	-2.5 to 2.5	Pass
				-10	3.80	-2.275	-0.0028	-2.5 to 2.5	Pass
				0	3.80	-4.792	-0.0058	-2.5 to 2.5	Pass
				10	3.80	-8.283	-0.0100	-2.5 to 2.5	Pass
	30	3.80	-8.183	-0.0099	-2.5 to 2.5	Pass			
	40	3.80	-6.065	-0.0073	-2.5 to 2.5	Pass			
	50	3.80	-4.306	-0.0052	-2.5 to 2.5	Pass			
	836.5	15	0	20	3.23	-5.879	-0.0070	-2.5 to 2.5	Pass
					3.80	-5.851	-0.0070	-2.5 to 2.5	Pass
					4.37	-7.582	-0.0091	-2.5 to 2.5	Pass
				-30	3.80	-8.183	-0.0098	-2.5 to 2.5	Pass
				-20	3.80	-6.981	-0.0083	-2.5 to 2.5	Pass
				-10	3.80	-6.938	-0.0083	-2.5 to 2.5	Pass
				0	3.80	-7.968	-0.0095	-2.5 to 2.5	Pass
				10	3.80	-6.309	-0.0075	-2.5 to 2.5	Pass
				30	3.80	-8.011	-0.0096	-2.5 to 2.5	Pass
	40	3.80	-6.523	-0.0078	-2.5 to 2.5	Pass			
	50	3.80	-3.533	-0.0042	-2.5 to 2.5	Pass			
	847.5	15	0	20	3.23	-2.904	-0.0034	-2.5 to 2.5	Pass
					3.80	-3.691	-0.0044	-2.5 to 2.5	Pass
					4.37	-7.281	-0.0086	-2.5 to 2.5	Pass
				-30	3.80	-5.550	-0.0065	-2.5 to 2.5	Pass
-20				3.80	-7.582	-0.0089	-2.5 to 2.5	Pass	
-10				3.80	-6.280	-0.0074	-2.5 to 2.5	Pass	
0				3.80	-6.995	-0.0083	-2.5 to 2.5	Pass	
10				3.80	-6.738	-0.0080	-2.5 to 2.5	Pass	
30				3.80	-6.995	-0.0083	-2.5 to 2.5	Pass	
40	3.80	-6.266	-0.0074	-2.5 to 2.5	Pass				
50	3.80	-8.426	-0.0099	-2.5 to 2.5	Pass				

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	3.23	-1.616	-0.0020	-2.5 to 2.5	Pass
					3.80	-1.216	-0.0015	-2.5 to 2.5	Pass
					4.37	-2.089	-0.0025	-2.5 to 2.5	Pass
				-30	3.80	-1.903	-0.0023	-2.5 to 2.5	Pass
				-20	3.80	-1.473	-0.0018	-2.5 to 2.5	Pass
				-10	3.80	-0.958	-0.0012	-2.5 to 2.5	Pass
				0	3.80	-1.173	-0.0014	-2.5 to 2.5	Pass
				10	3.80	-0.701	-0.0008	-2.5 to 2.5	Pass
				30	3.80	-0.701	-0.0008	-2.5 to 2.5	Pass
40	3.80	-0.787	-0.0010	-2.5 to 2.5	Pass				



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	836.5	25	0	50	3.80	-2.432	-0.0029	-2.5 to 2.5	Pass
				20	3.23	-0.215	-0.0003	-2.5 to 2.5	Pass
					3.80	-0.257	-0.0003	-2.5 to 2.5	Pass
					4.37	0.043	0.0001	-2.5 to 2.5	Pass
				-30	3.80	-1.059	-0.0013	-2.5 to 2.5	Pass
				-20	3.80	-2.017	-0.0024	-2.5 to 2.5	Pass
				-10	3.80	-1.974	-0.0024	-2.5 to 2.5	Pass
				0	3.80	-1.245	-0.0015	-2.5 to 2.5	Pass
				10	3.80	-1.030	-0.0012	-2.5 to 2.5	Pass
				30	3.80	-0.930	-0.0011	-2.5 to 2.5	Pass
	40	3.80	-0.501	-0.0006	-2.5 to 2.5	Pass			
	50	3.80	-1.445	-0.0017	-2.5 to 2.5	Pass			
	846.5	25	0	20	3.23	0.501	0.0006	-2.5 to 2.5	Pass
					3.80	1.030	0.0012	-2.5 to 2.5	Pass
					4.37	0.973	0.0011	-2.5 to 2.5	Pass
				-30	3.80	-0.815	-0.0010	-2.5 to 2.5	Pass
				-20	3.80	-1.187	-0.0014	-2.5 to 2.5	Pass
				-10	3.80	-0.629	-0.0007	-2.5 to 2.5	Pass
				0	3.80	-0.687	-0.0008	-2.5 to 2.5	Pass
				10	3.80	0.901	0.0011	-2.5 to 2.5	Pass
30				3.80	-0.701	-0.0008	-2.5 to 2.5	Pass	
40				3.80	0.658	0.0008	-2.5 to 2.5	Pass	
50	3.80	0.501	0.0006	-2.5 to 2.5	Pass				
16QAM	826.5	25	0	20	3.23	-2.933	-0.0035	-2.5 to 2.5	Pass
					3.80	-2.747	-0.0033	-2.5 to 2.5	Pass
					4.37	-2.518	-0.0030	-2.5 to 2.5	Pass
				-30	3.80	-0.286	-0.0003	-2.5 to 2.5	Pass
				-20	3.80	-2.103	-0.0025	-2.5 to 2.5	Pass
				-10	3.80	-1.831	-0.0022	-2.5 to 2.5	Pass
				0	3.80	-1.416	-0.0017	-2.5 to 2.5	Pass
				10	3.80	-1.116	-0.0014	-2.5 to 2.5	Pass
				30	3.80	-1.974	-0.0024	-2.5 to 2.5	Pass
				40	3.80	-2.131	-0.0026	-2.5 to 2.5	Pass
	50	3.80	-1.259	-0.0015	-2.5 to 2.5	Pass			
	836.5	25	0	20	3.23	-1.144	-0.0014	-2.5 to 2.5	Pass
					3.80	-0.916	-0.0011	-2.5 to 2.5	Pass
					4.37	-0.644	-0.0008	-2.5 to 2.5	Pass
				-30	3.80	-0.157	-0.0002	-2.5 to 2.5	Pass
				-20	3.80	0.429	0.0005	-2.5 to 2.5	Pass
				-10	3.80	-0.958	-0.0011	-2.5 to 2.5	Pass
				0	3.80	-0.329	-0.0004	-2.5 to 2.5	Pass
				10	3.80	-0.114	-0.0001	-2.5 to 2.5	Pass
				30	3.80	0.086	0.0001	-2.5 to 2.5	Pass
40				3.80	-0.014	0.0000	-2.5 to 2.5	Pass	
50	3.80	-1.559	-0.0019	-2.5 to 2.5	Pass				
846.5	25	0	20	3.23	1.245	0.0015	-2.5 to 2.5	Pass	
				3.80	0.572	0.0007	-2.5 to 2.5	Pass	
				4.37	-0.486	-0.0006	-2.5 to 2.5	Pass	
			-30	3.80	-0.730	-0.0009	-2.5 to 2.5	Pass	
			-20	3.80	-1.159	-0.0014	-2.5 to 2.5	Pass	
			-10	3.80	-0.572	-0.0007	-2.5 to 2.5	Pass	
			0	3.80	-0.501	-0.0006	-2.5 to 2.5	Pass	
			10	3.80	-0.143	-0.0002	-2.5 to 2.5	Pass	
30	3.80	-0.157	-0.0002	-2.5 to 2.5	Pass				

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64QAM	826.5	25	0	40	3.80	0.458	0.0005	-2.5 to 2.5	Pass
				50	3.80	-0.443	-0.0005	-2.5 to 2.5	Pass
				20	3.23	-6.123	-0.0074	-2.5 to 2.5	Pass
					3.80	-7.181	-0.0087	-2.5 to 2.5	Pass
					4.37	-7.267	-0.0088	-2.5 to 2.5	Pass
				-30	3.80	-6.351	-0.0077	-2.5 to 2.5	Pass
				-20	3.80	-4.392	-0.0053	-2.5 to 2.5	Pass
				-10	3.80	-6.380	-0.0077	-2.5 to 2.5	Pass
				0	3.80	-6.423	-0.0078	-2.5 to 2.5	Pass
				10	3.80	-5.865	-0.0071	-2.5 to 2.5	Pass
	30	3.80	-6.824	-0.0083	-2.5 to 2.5	Pass			
	40	3.80	-7.539	-0.0091	-2.5 to 2.5	Pass			
	50	3.80	-3.362	-0.0041	-2.5 to 2.5	Pass			
	836.5	25	0	20	3.23	-4.621	-0.0055	-2.5 to 2.5	Pass
					3.80	-6.223	-0.0074	-2.5 to 2.5	Pass
					4.37	-5.407	-0.0065	-2.5 to 2.5	Pass
				-30	3.80	-7.010	-0.0084	-2.5 to 2.5	Pass
				-20	3.80	-7.038	-0.0084	-2.5 to 2.5	Pass
				-10	3.80	-5.922	-0.0071	-2.5 to 2.5	Pass
				0	3.80	-7.267	-0.0087	-2.5 to 2.5	Pass
				10	3.80	-7.224	-0.0086	-2.5 to 2.5	Pass
				30	3.80	-7.010	-0.0084	-2.5 to 2.5	Pass
				40	3.80	-6.523	-0.0078	-2.5 to 2.5	Pass
	50	3.80	-6.924	-0.0083	-2.5 to 2.5	Pass			
	846.5	25	0	20	3.23	-3.791	-0.0045	-2.5 to 2.5	Pass
					3.80	-9.613	-0.0114	-2.5 to 2.5	Pass
					4.37	-5.765	-0.0068	-2.5 to 2.5	Pass
				-30	3.80	-8.755	-0.0103	-2.5 to 2.5	Pass
				-20	3.80	-6.938	-0.0082	-2.5 to 2.5	Pass
				-10	3.80	-8.225	-0.0097	-2.5 to 2.5	Pass
0				3.80	-5.136	-0.0061	-2.5 to 2.5	Pass	
10				3.80	-5.336	-0.0063	-2.5 to 2.5	Pass	
30				3.80	-9.971	-0.0118	-2.5 to 2.5	Pass	
40				3.80	-6.523	-0.0077	-2.5 to 2.5	Pass	
50	3.80	-9.298	-0.0110	-2.5 to 2.5	Pass				

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	3.23	-0.114	-0.0001	-2.5 to 2.5	Pass
					3.80	-0.858	-0.0010	-2.5 to 2.5	Pass
					4.37	-0.329	-0.0004	-2.5 to 2.5	Pass
				-30	3.80	-0.143	-0.0002	-2.5 to 2.5	Pass
				-20	3.80	-1.016	-0.0012	-2.5 to 2.5	Pass
				-10	3.80	-0.887	-0.0011	-2.5 to 2.5	Pass
				0	3.80	-1.001	-0.0012	-2.5 to 2.5	Pass
				10	3.80	-0.916	-0.0011	-2.5 to 2.5	Pass
				30	3.80	-0.615	-0.0007	-2.5 to 2.5	Pass



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	836.5	50	0	40	3.80	-0.830	-0.0010	-2.5 to 2.5	Pass
				50	3.80	-0.558	-0.0007	-2.5 to 2.5	Pass
				20	3.23	-0.243	-0.0003	-2.5 to 2.5	Pass
					3.80	0.100	0.0001	-2.5 to 2.5	Pass
					4.37	0.343	0.0004	-2.5 to 2.5	Pass
				-30	3.80	-0.958	-0.0011	-2.5 to 2.5	Pass
				-20	3.80	-0.300	-0.0004	-2.5 to 2.5	Pass
				-10	3.80	-0.029	0.0000	-2.5 to 2.5	Pass
				0	3.80	0.429	0.0005	-2.5 to 2.5	Pass
				10	3.80	0.758	0.0009	-2.5 to 2.5	Pass
	30	3.80	0.615	0.0007	-2.5 to 2.5	Pass			
	40	3.80	0.930	0.0011	-2.5 to 2.5	Pass			
	50	3.80	-1.330	-0.0016	-2.5 to 2.5	Pass			
	844	50	0	20	3.23	-1.431	-0.0017	-2.5 to 2.5	Pass
					3.80	-0.587	-0.0007	-2.5 to 2.5	Pass
					4.37	-0.415	-0.0005	-2.5 to 2.5	Pass
				-30	3.80	-0.572	-0.0007	-2.5 to 2.5	Pass
				-20	3.80	-0.644	-0.0008	-2.5 to 2.5	Pass
				-10	3.80	-0.157	-0.0002	-2.5 to 2.5	Pass
				0	3.80	-0.558	-0.0007	-2.5 to 2.5	Pass
10				3.80	0.029	0.0000	-2.5 to 2.5	Pass	
30				3.80	-0.372	-0.0004	-2.5 to 2.5	Pass	
40				3.80	-0.472	-0.0006	-2.5 to 2.5	Pass	
50	3.80	-0.529	-0.0006	-2.5 to 2.5	Pass				
16QAM	829	50	0	20	3.23	-0.529	-0.0006	-2.5 to 2.5	Pass
					3.80	-0.801	-0.0010	-2.5 to 2.5	Pass
					4.37	-0.415	-0.0005	-2.5 to 2.5	Pass
				-30	3.80	0.172	0.0002	-2.5 to 2.5	Pass
				-20	3.80	-1.688	-0.0020	-2.5 to 2.5	Pass
				-10	3.80	-1.717	-0.0021	-2.5 to 2.5	Pass
				0	3.80	-1.087	-0.0013	-2.5 to 2.5	Pass
				10	3.80	-1.016	-0.0012	-2.5 to 2.5	Pass
				30	3.80	-0.443	-0.0005	-2.5 to 2.5	Pass
				40	3.80	-0.772	-0.0009	-2.5 to 2.5	Pass
	50	3.80	-0.544	-0.0007	-2.5 to 2.5	Pass			
	836.5	50	0	20	3.23	-1.216	-0.0015	-2.5 to 2.5	Pass
					3.80	-1.473	-0.0018	-2.5 to 2.5	Pass
					4.37	-0.544	-0.0007	-2.5 to 2.5	Pass
				-30	3.80	-1.030	-0.0012	-2.5 to 2.5	Pass
				-20	3.80	-0.629	-0.0008	-2.5 to 2.5	Pass
				-10	3.80	-0.300	-0.0004	-2.5 to 2.5	Pass
				0	3.80	-0.329	-0.0004	-2.5 to 2.5	Pass
				10	3.80	-0.572	-0.0007	-2.5 to 2.5	Pass
				30	3.80	-0.057	-0.0001	-2.5 to 2.5	Pass
40				3.80	0.186	0.0002	-2.5 to 2.5	Pass	
50	3.80	-1.817	-0.0022	-2.5 to 2.5	Pass				
844	50	0	20	3.23	-0.515	-0.0006	-2.5 to 2.5	Pass	
				3.80	-0.343	-0.0004	-2.5 to 2.5	Pass	
				4.37	-1.516	-0.0018	-2.5 to 2.5	Pass	
			-30	3.80	-0.172	-0.0002	-2.5 to 2.5	Pass	
			-20	3.80	-0.572	-0.0007	-2.5 to 2.5	Pass	
			-10	3.80	-0.072	-0.0001	-2.5 to 2.5	Pass	
			0	3.80	0.286	0.0003	-2.5 to 2.5	Pass	
			10	3.80	-1.588	-0.0019	-2.5 to 2.5	Pass	

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				30	3.80	-1.531	-0.0018	-2.5 to 2.5	Pass
				40	3.80	-0.715	-0.0008	-2.5 to 2.5	Pass
				50	3.80	-0.329	-0.0004	-2.5 to 2.5	Pass
64QAM	829	50	0	20	3.23	-4.306	-0.0052	-2.5 to 2.5	Pass
					3.80	-8.612	-0.0104	-2.5 to 2.5	Pass
					4.37	-8.240	-0.0099	-2.5 to 2.5	Pass
				-30	3.80	-6.437	-0.0078	-2.5 to 2.5	Pass
				-20	3.80	-5.922	-0.0071	-2.5 to 2.5	Pass
				-10	3.80	-9.413	-0.0114	-2.5 to 2.5	Pass
				0	3.80	-7.381	-0.0089	-2.5 to 2.5	Pass
				10	3.80	-8.183	-0.0099	-2.5 to 2.5	Pass
				30	3.80	-6.437	-0.0078	-2.5 to 2.5	Pass
				40	3.80	-10.099	-0.0122	-2.5 to 2.5	Pass
				50	3.80	-6.995	-0.0084	-2.5 to 2.5	Pass
				836.5	50	0	20	3.23	-4.334
	3.80	-5.708	-0.0068					-2.5 to 2.5	Pass
	4.37	-7.367	-0.0088					-2.5 to 2.5	Pass
	-30	3.80	-4.935				-0.0059	-2.5 to 2.5	Pass
	-20	3.80	-6.680				-0.0080	-2.5 to 2.5	Pass
	-10	3.80	-4.363				-0.0052	-2.5 to 2.5	Pass
	0	3.80	-6.995				-0.0084	-2.5 to 2.5	Pass
	10	3.80	-6.409				-0.0077	-2.5 to 2.5	Pass
	30	3.80	-5.622				-0.0067	-2.5 to 2.5	Pass
	40	3.80	-7.682				-0.0092	-2.5 to 2.5	Pass
	50	3.80	-4.878				-0.0058	-2.5 to 2.5	Pass
	844	50	0				20	3.23	-9.241
				3.80	-4.864	-0.0058		-2.5 to 2.5	Pass
4.37				-6.409	-0.0076	-2.5 to 2.5		Pass	
-30				3.80	-5.379	-0.0064	-2.5 to 2.5	Pass	
-20				3.80	-6.781	-0.0080	-2.5 to 2.5	Pass	
-10				3.80	-6.309	-0.0075	-2.5 to 2.5	Pass	
0				3.80	-5.980	-0.0071	-2.5 to 2.5	Pass	
10				3.80	-9.527	-0.0113	-2.5 to 2.5	Pass	
30				3.80	-5.550	-0.0066	-2.5 to 2.5	Pass	
40				3.80	-9.098	-0.0108	-2.5 to 2.5	Pass	
50				3.80	-7.095	-0.0084	-2.5 to 2.5	Pass	

### 3. Modulation Characteristics

#### 3.1 B5\_1.4MHz

##### 3.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	6	0	Refer To Test Graph		Pass
16QAM	836.5	6	0	Refer To Test Graph		Pass
64QAM	836.5	6	0	Refer To Test Graph		Pass



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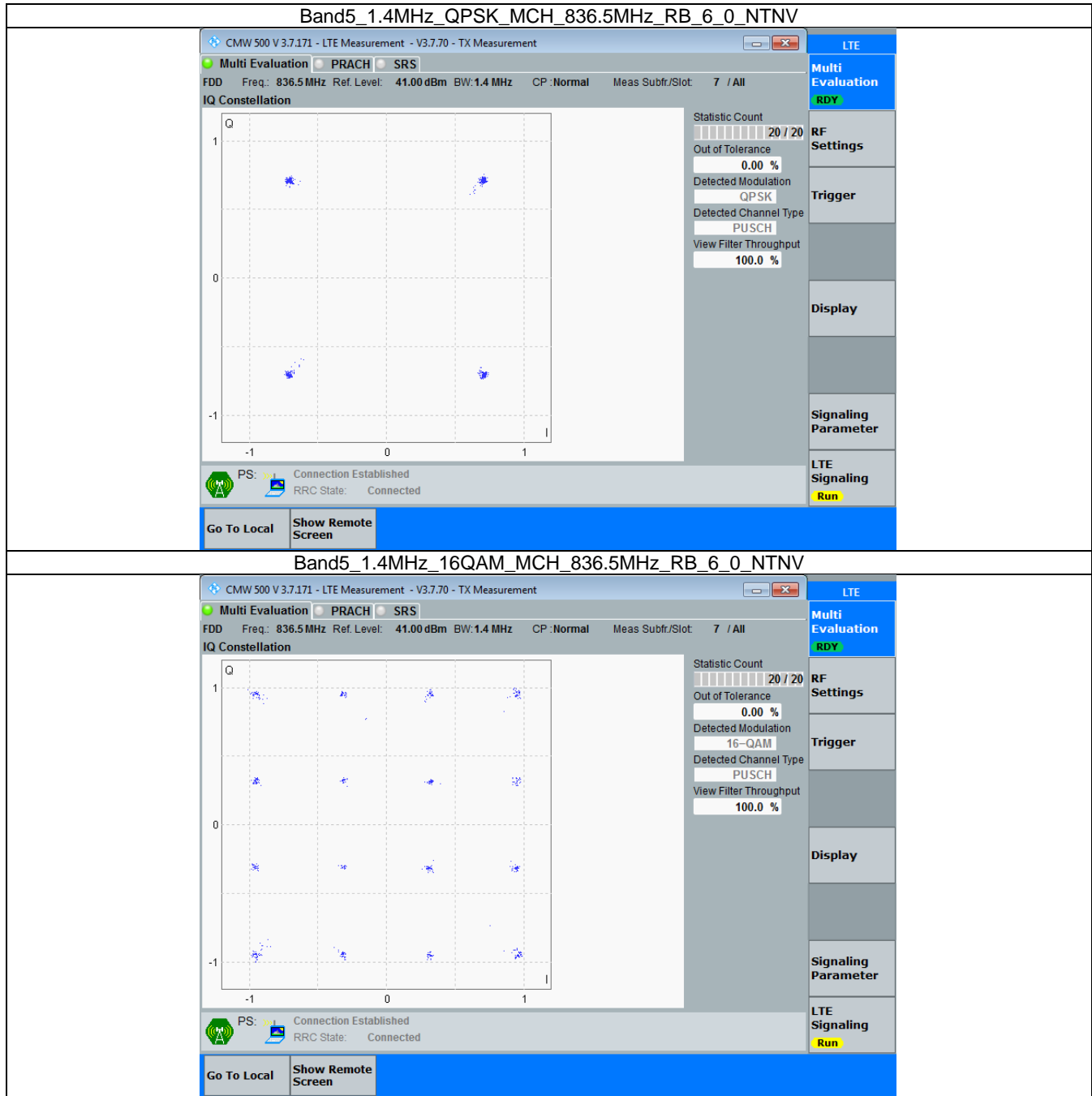
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3.1.2 Test Graph

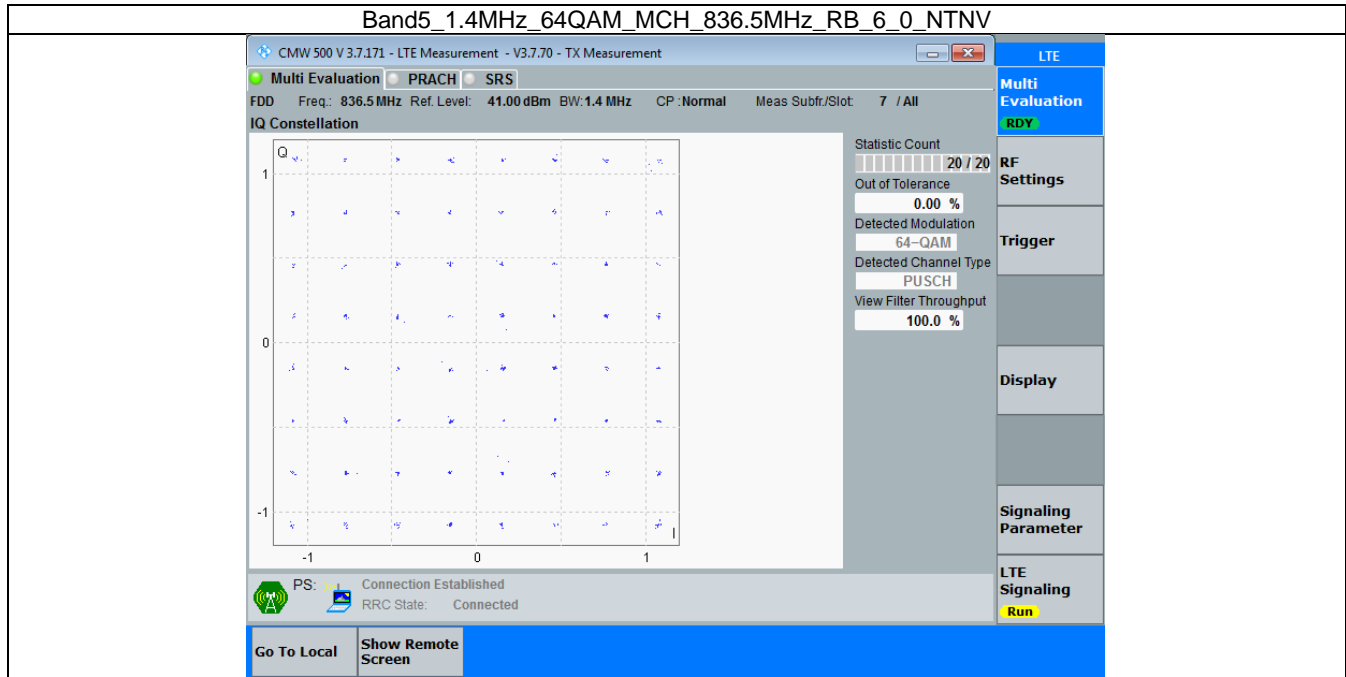


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3.2 B5\_3MHz

3.2.1 Test Result

Band: 5 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	15	0	Refer To Test Graph		Pass
16QAM	836.5	15	0	Refer To Test Graph		Pass
64QAM	836.5	15	0	Refer To Test Graph		Pass



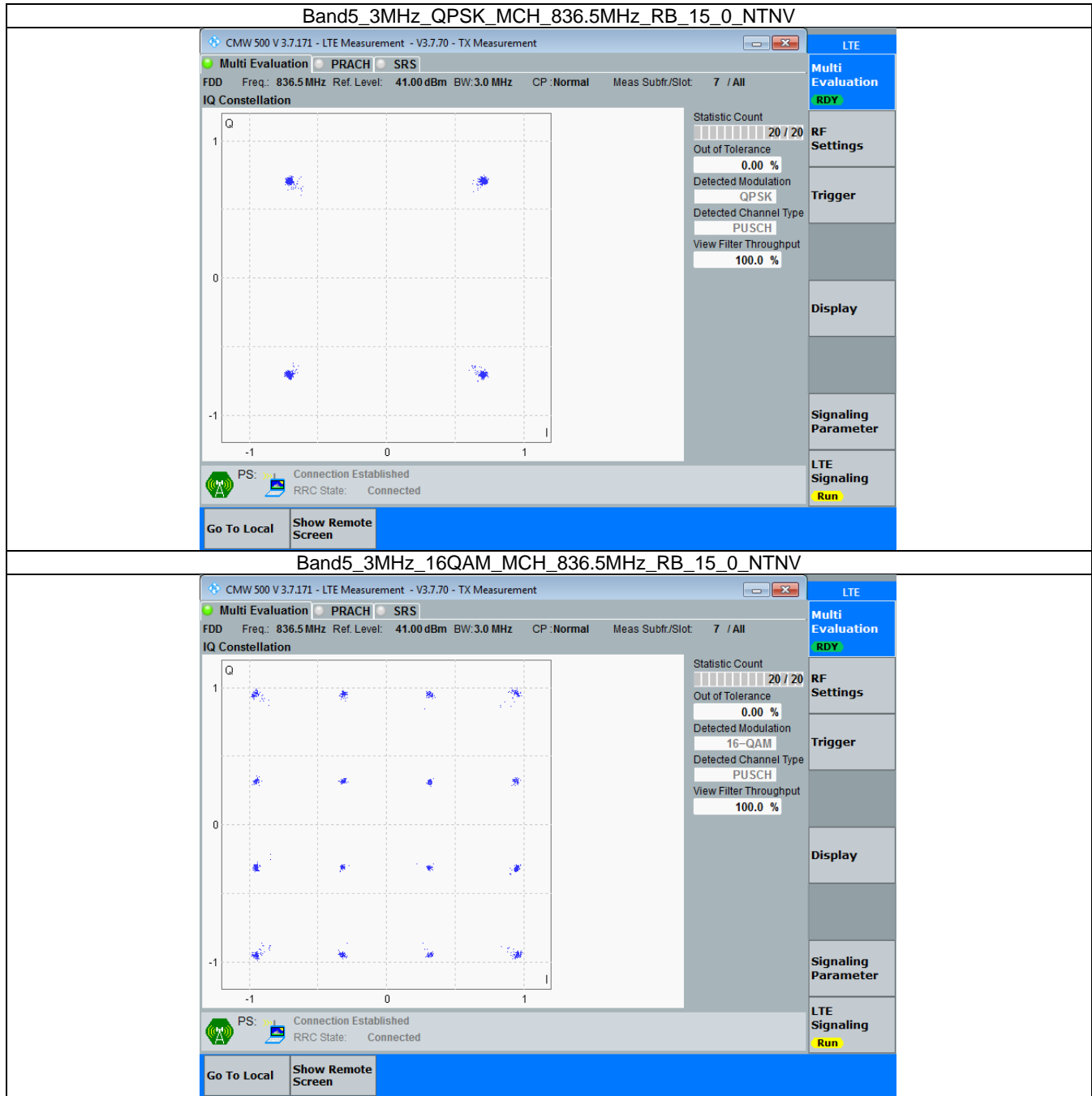
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3.2.2 Test Graph



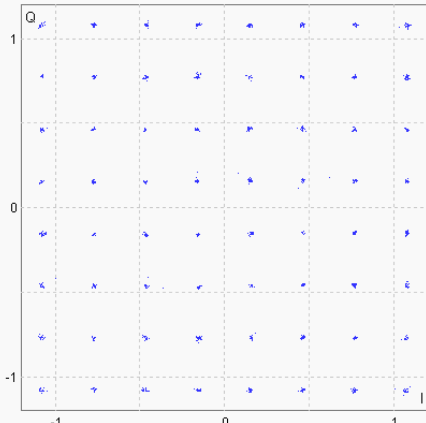
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**Band5\_3MHz\_64QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV**

CMW 500 V 3.7.171 - LTE Measurement - V3.7.70 - TX Measurement		LTE
Multi Evaluation <input type="checkbox"/> PRACH <input type="checkbox"/> SRS		Multi Evaluation <b>RDY</b>
FDD Freq: 836.5 MHz Ref. Level: 41.00 dBm BW: 3.0 MHz CP: Normal Meas Subfr/Slot 7 / All		RF Settings
IQ Constellation		Trigger
		Display
PS:  Connection Established RRC State: Connected		Signaling Parameter
LTE Signaling <b>Run</b>		LTE Signaling <b>Run</b>
Go To Local	Show Remote Screen	



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3.3 B5\_5MHz

3.3.1 Test Result

Band: 5 / Bandwidth: 5MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	25	0	Refer To Test Graph		Pass
16QAM	836.5	25	0	Refer To Test Graph		Pass
64QAM	836.5	25	0	Refer To Test Graph		Pass



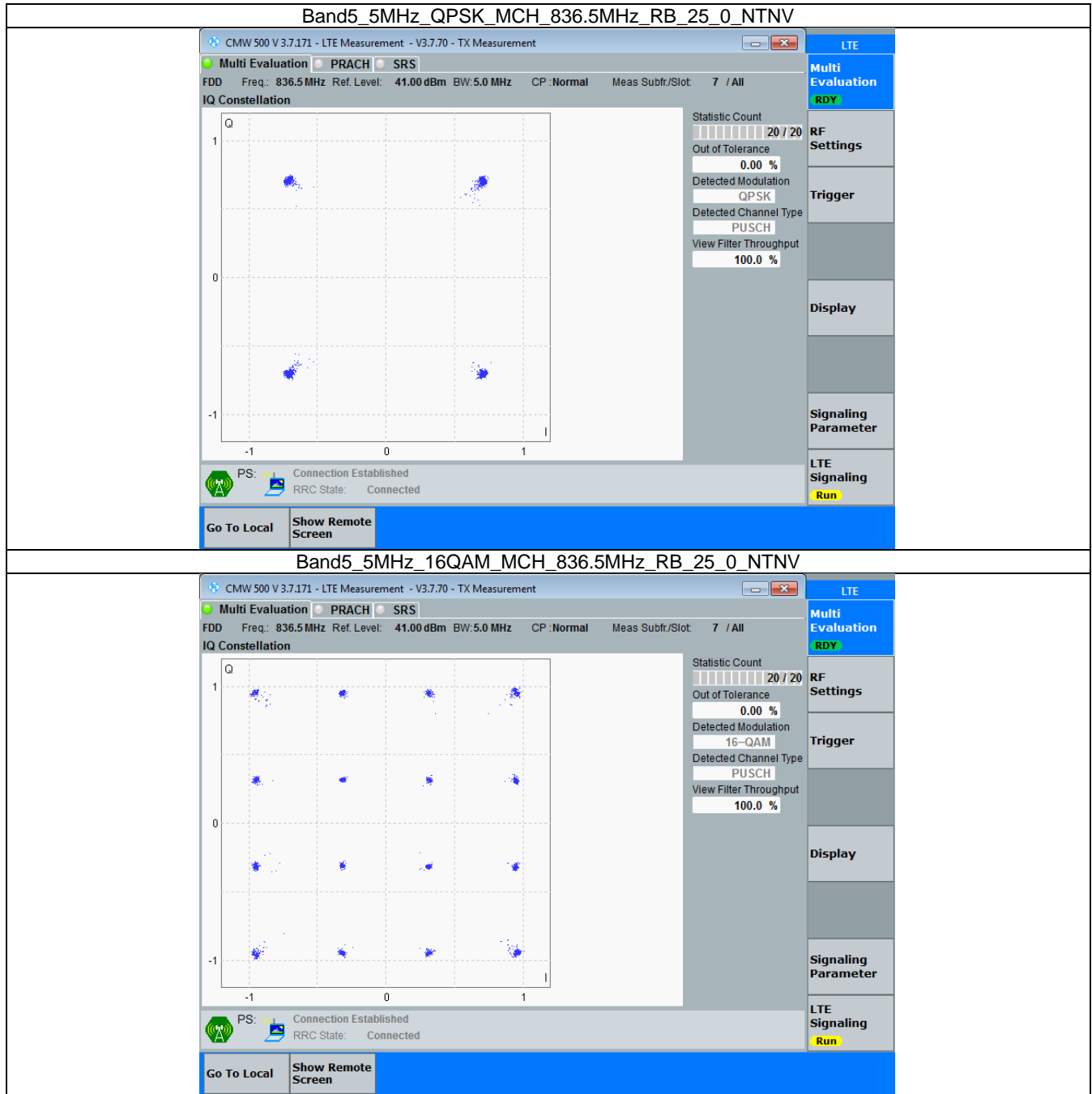
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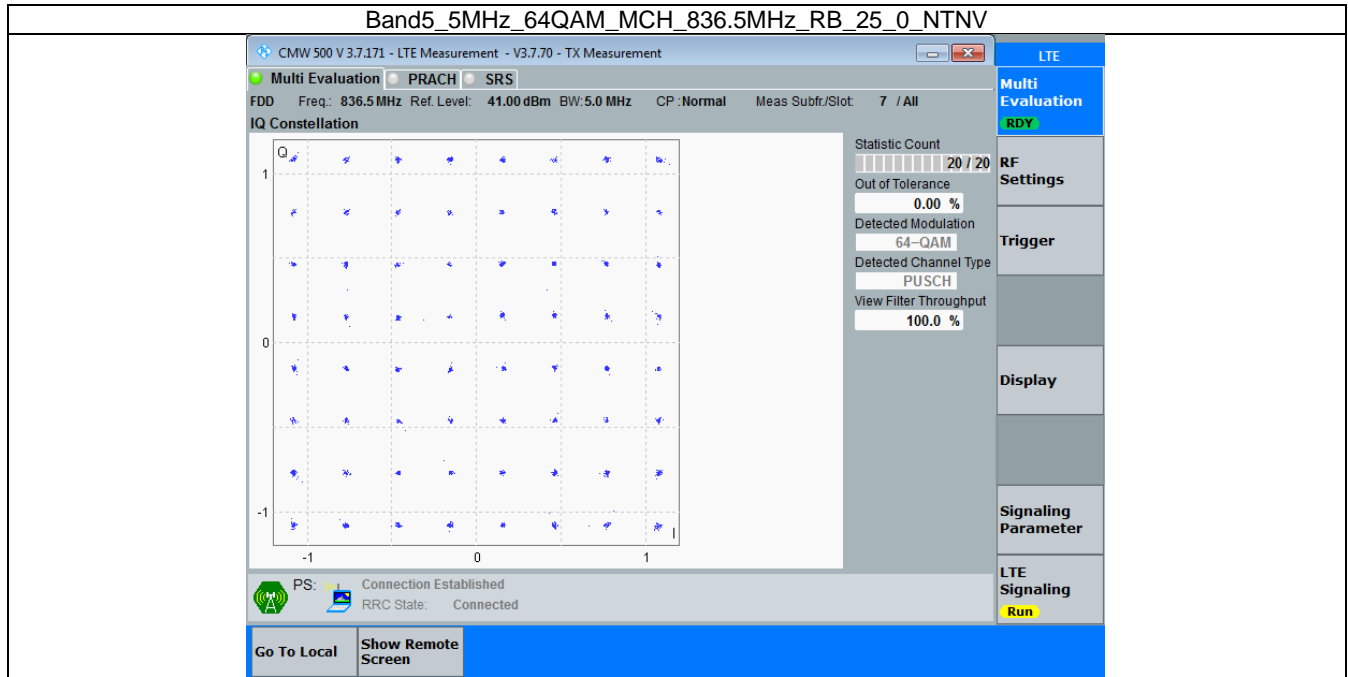
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3.3.2 Test Graph



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3.4 B5\_10MHz

3.4.1 Test Result

Band: 5 / Bandwidth: 10MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Modulation Characteristics		Verdict
		Size	Offset	Result	Limit	
QPSK	836.5	50	0	Refer To Test Graph		Pass
16QAM	836.5	50	0	Refer To Test Graph		Pass
64QAM	836.5	50	0	Refer To Test Graph		Pass

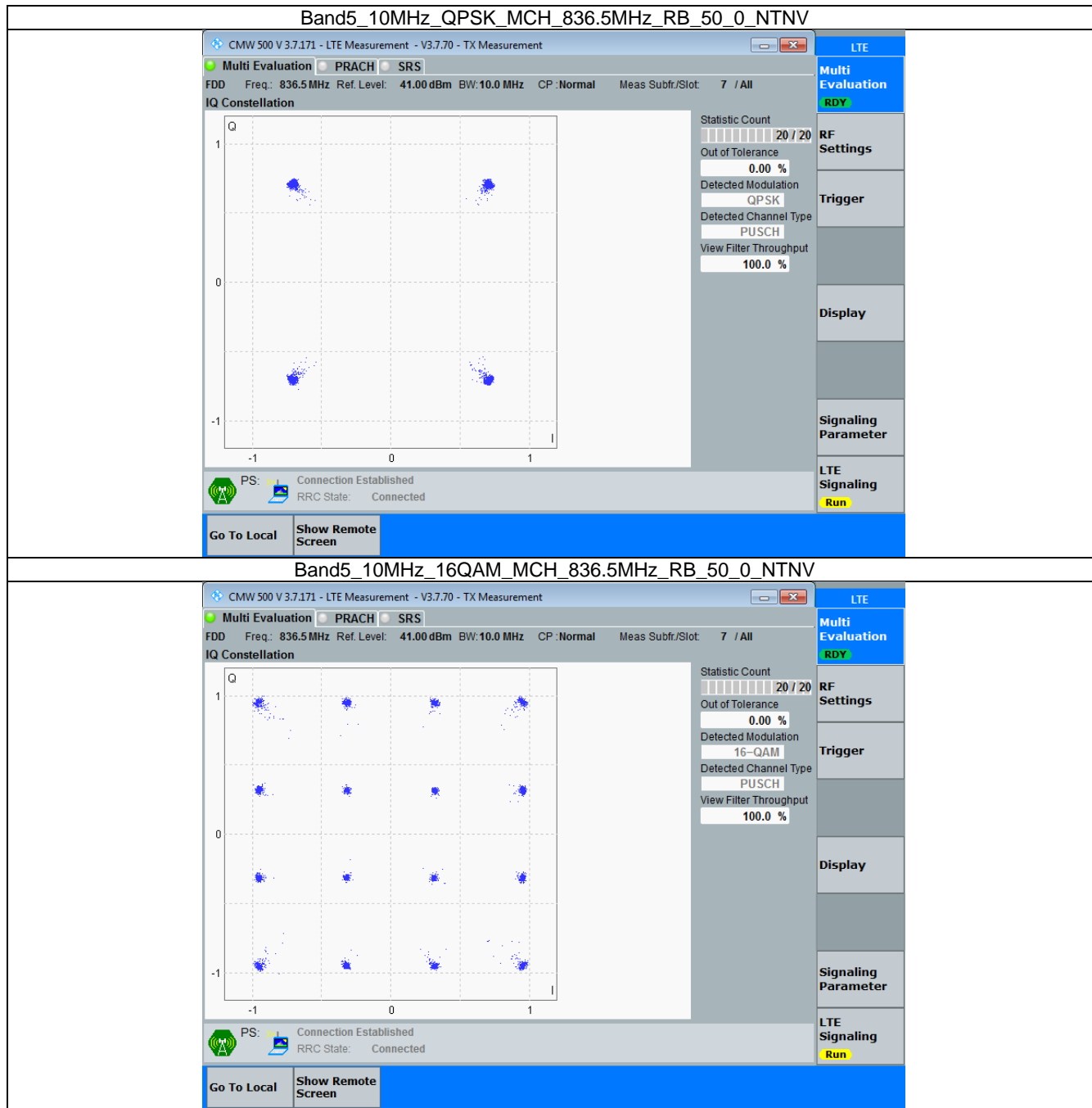


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## 3.4.2 Test Graph



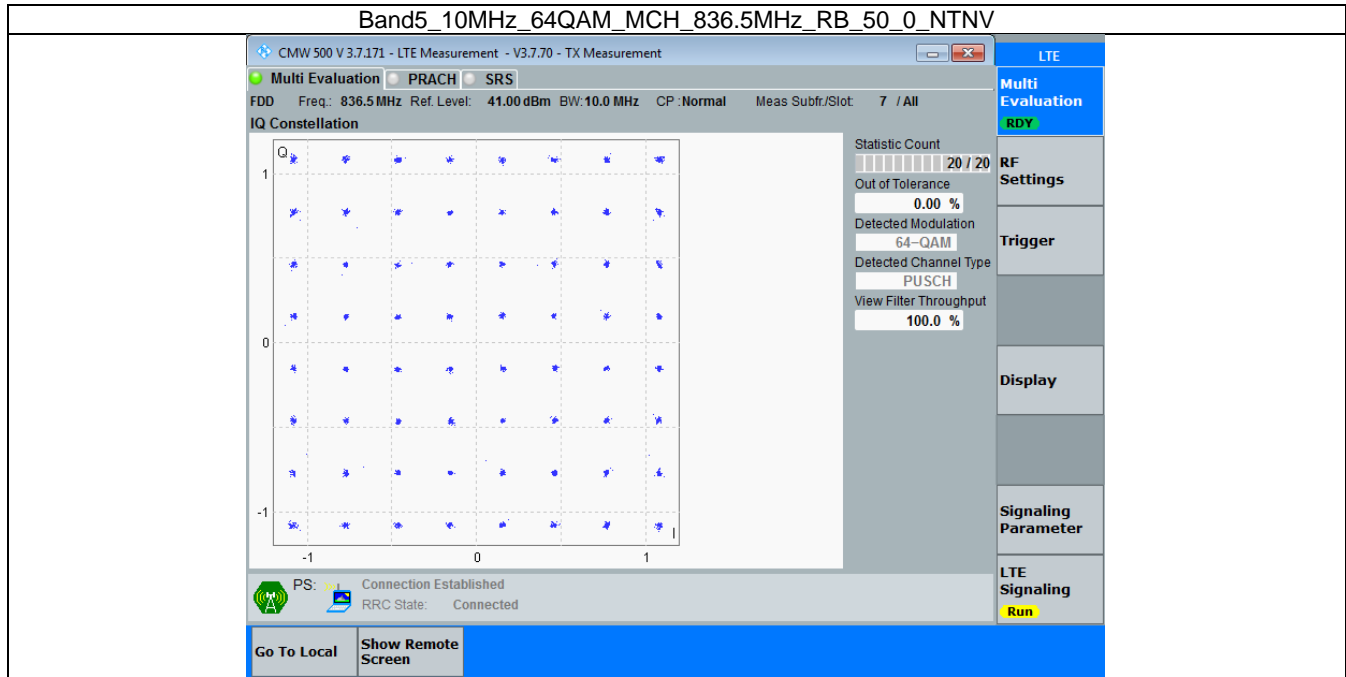
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4. 99% & 26dB Bandwidth

4.1 Band5\_OBW

4.1.1 Test Result

Band: 5 / NTV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	824.7	6	0	1.110	Pass
		836.5	6	0	1.105	Pass
		848.3	6	0	1.102	Pass
	16QAM	824.7	6	0	1.110	Pass
		836.5	6	0	1.103	Pass
		848.3	6	0	1.108	Pass
	64QAM	824.7	6	0	1.116	Pass
		836.5	6	0	1.106	Pass
		848.3	6	0	1.102	Pass
3	QPSK	825.5	15	0	2.722	Pass
		836.5	15	0	2.742	Pass
		847.5	15	0	2.724	Pass
	16QAM	825.5	15	0	2.726	Pass
		836.5	15	0	2.720	Pass
		847.5	15	0	2.724	Pass
	64QAM	825.5	15	0	2.710	Pass
		836.5	15	0	2.700	Pass
		847.5	15	0	2.707	Pass
5	QPSK	826.5	25	0	4.540	Pass
		836.5	25	0	4.533	Pass
		846.5	25	0	4.530	Pass
	16QAM	826.5	25	0	4.528	Pass
		836.5	25	0	4.555	Pass
		846.5	25	0	4.557	Pass
	64QAM	826.5	25	0	4.534	Pass
		836.5	25	0	4.529	Pass
		846.5	25	0	4.531	Pass
10	QPSK	829	50	0	9.031	Pass
		836.5	50	0	9.046	Pass
		844	50	0	9.031	Pass
	16QAM	829	50	0	9.064	Pass
		836.5	50	0	9.034	Pass
		844	50	0	9.006	Pass
	64QAM	829	50	0	9.077	Pass
		836.5	50	0	9.017	Pass
		844	50	0	9.079	Pass



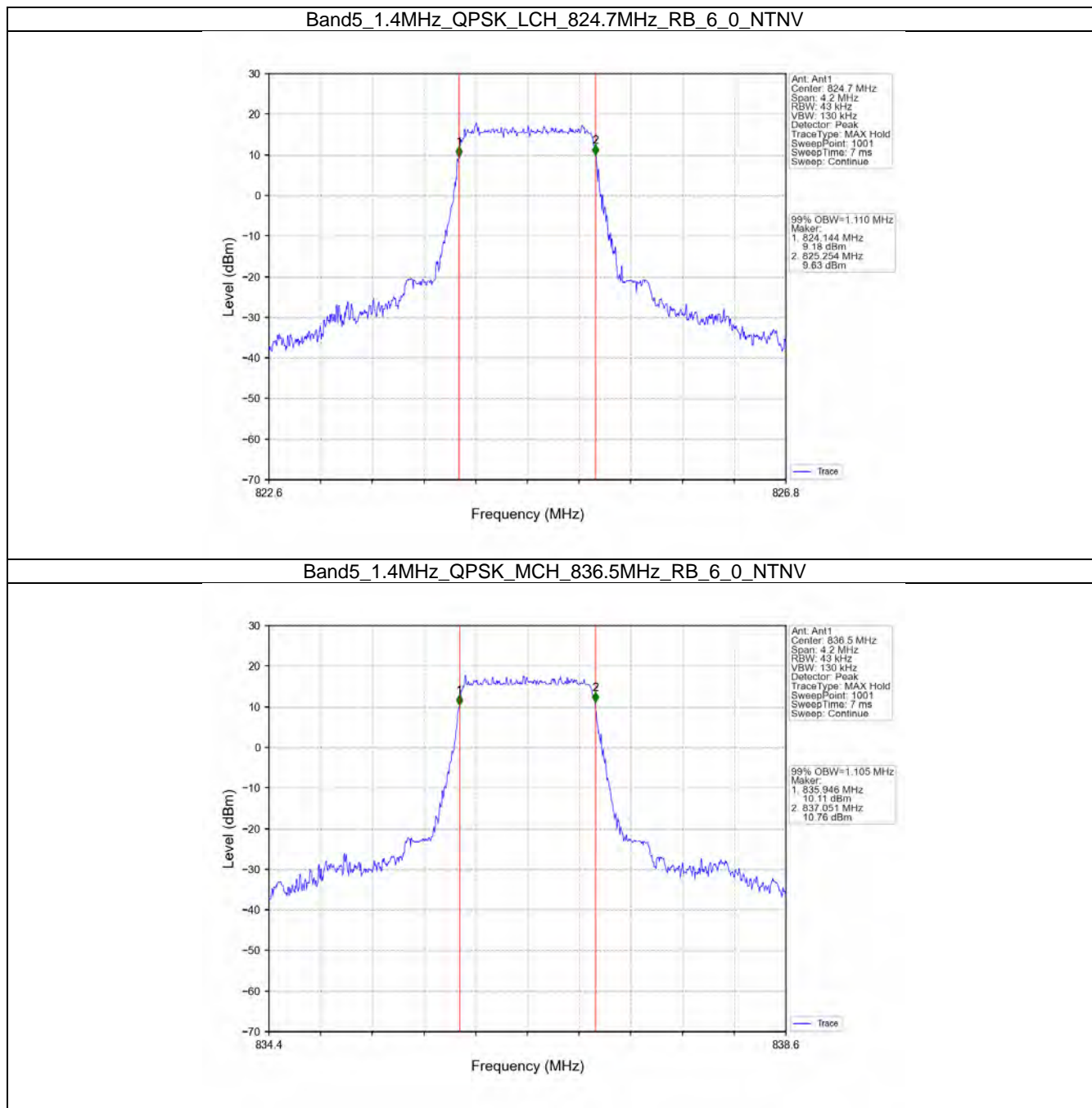
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## 4.1.2 Test Graph



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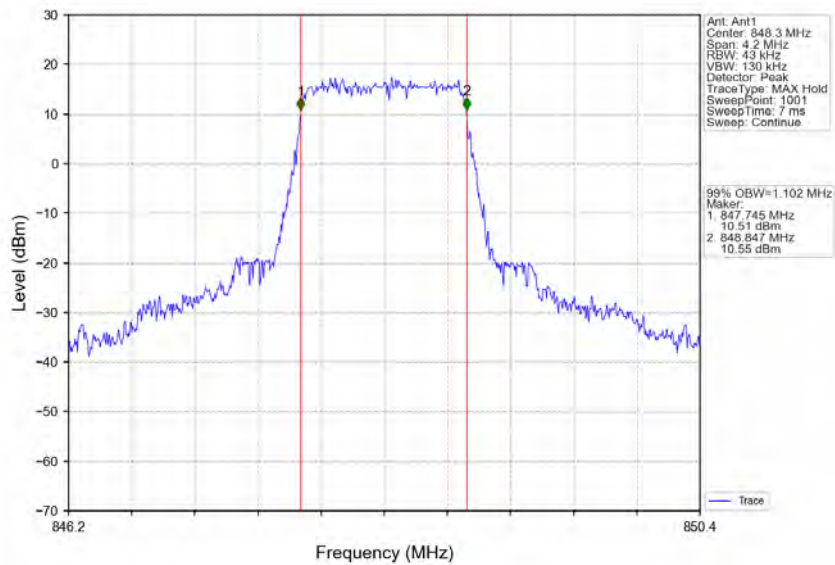
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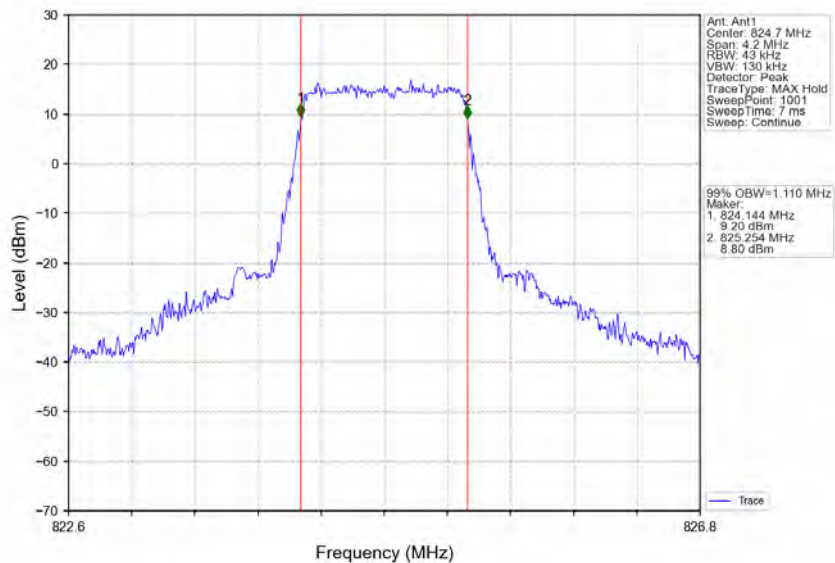
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Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



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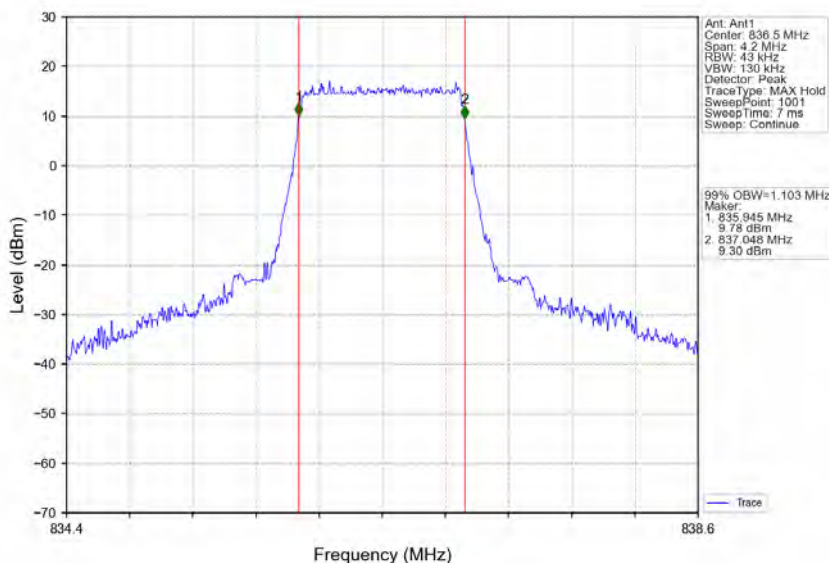
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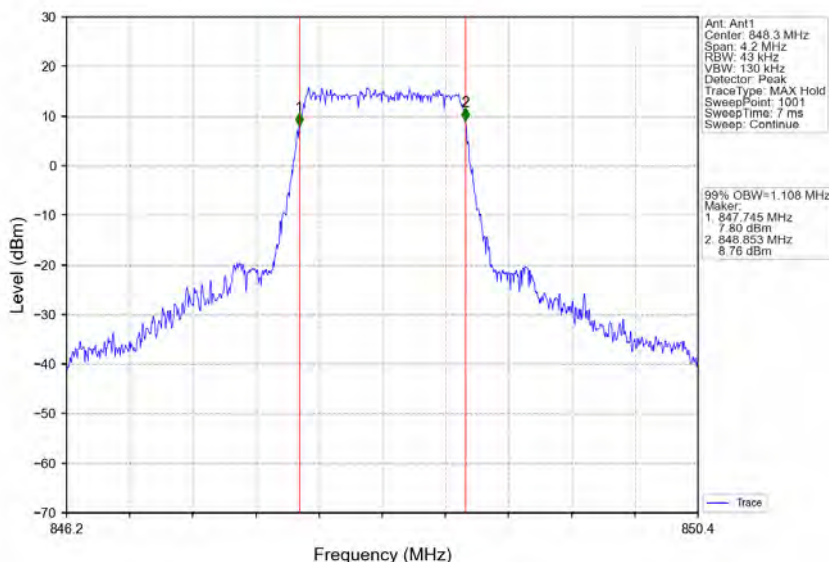




Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV

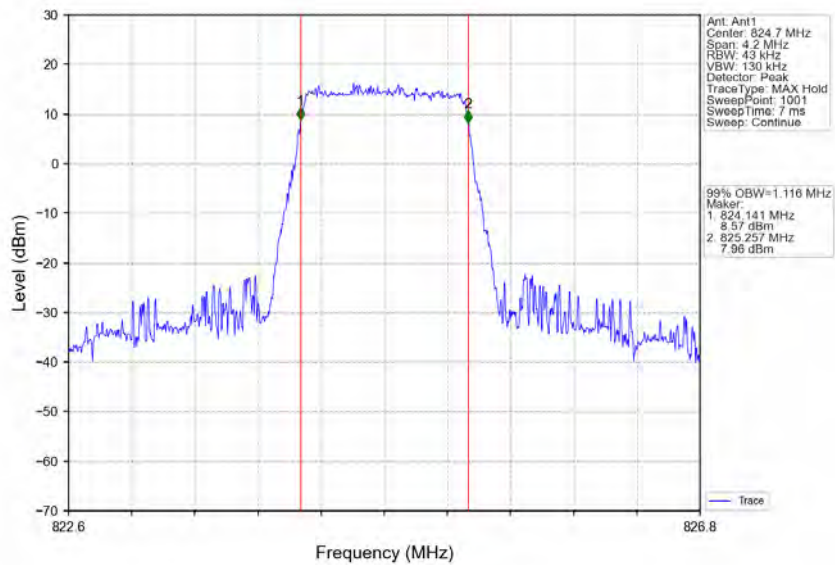


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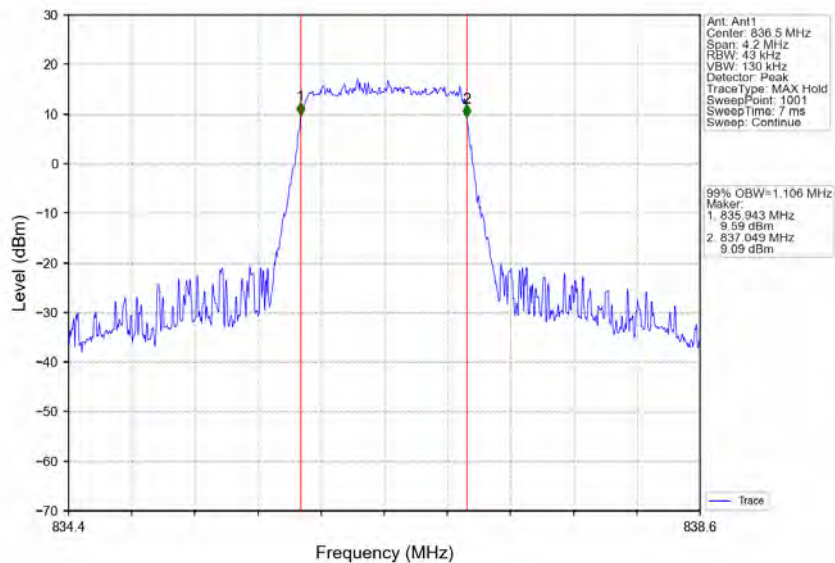
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Band5\_1.4MHz\_64QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



Band5\_1.4MHz\_64QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



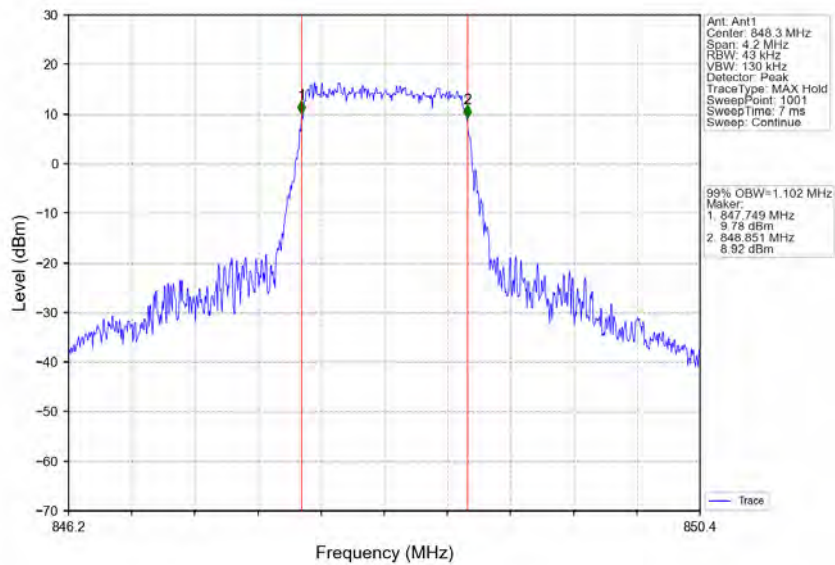
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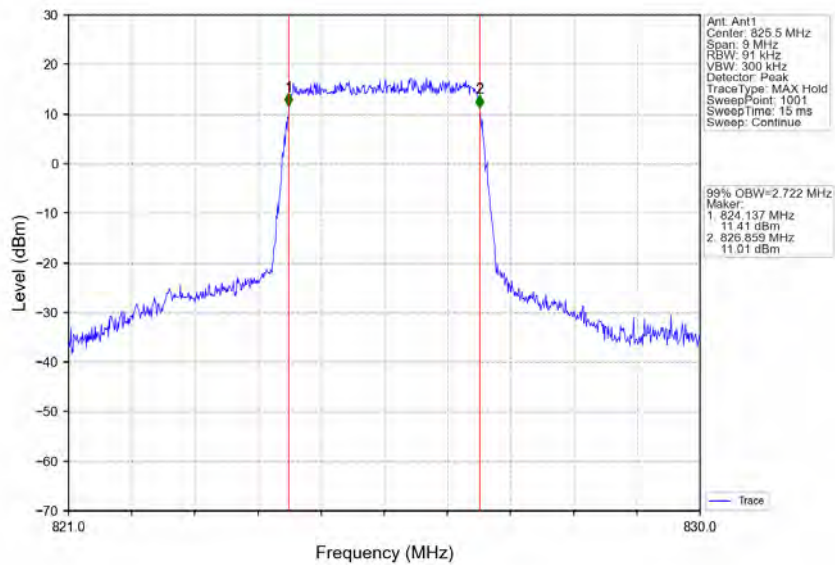
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Band5\_1.4MHz\_64QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



Band5\_3MHz\_QPSK\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



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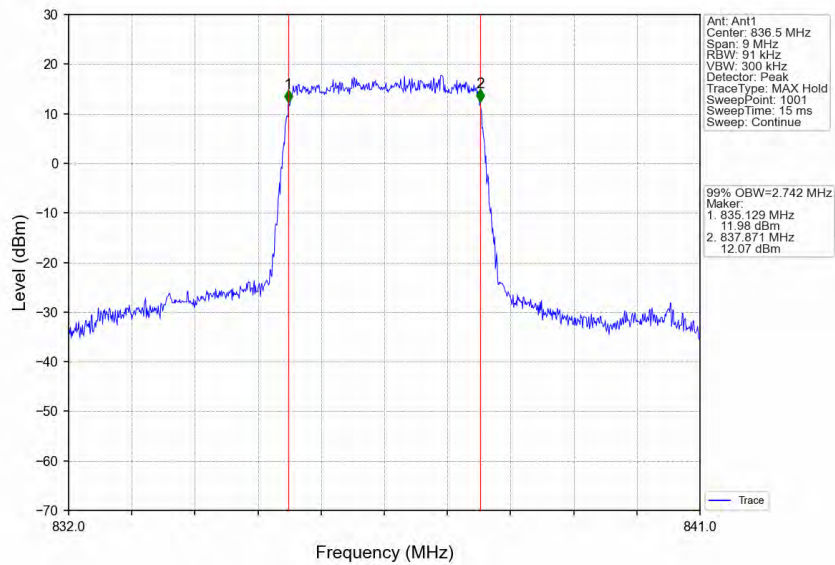
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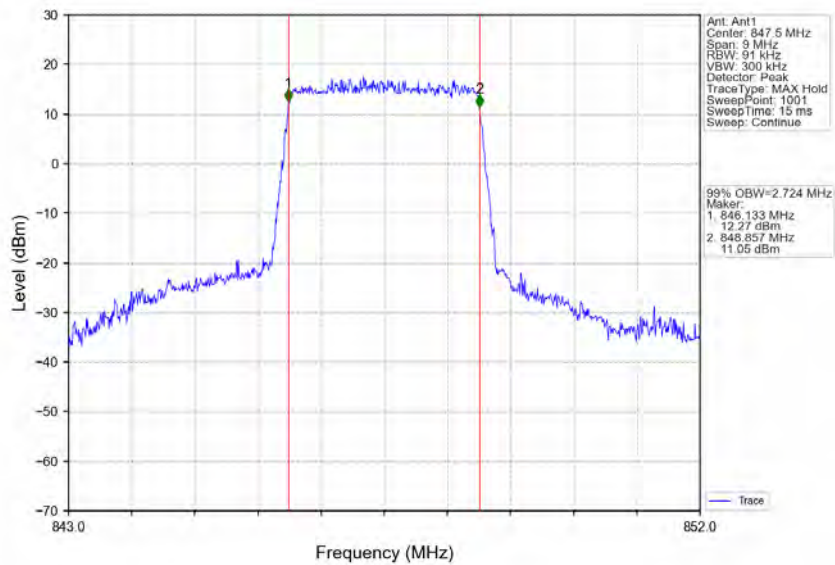
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Band5\_3MHz\_QPSK\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



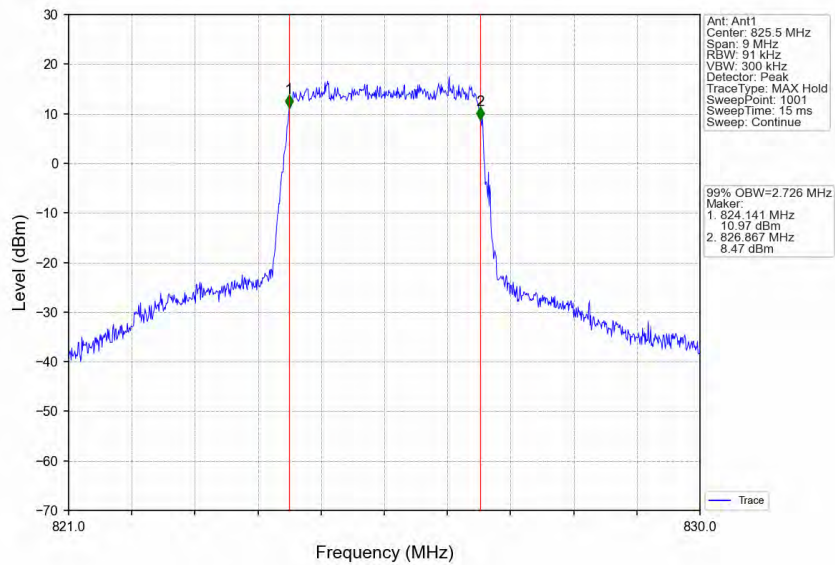
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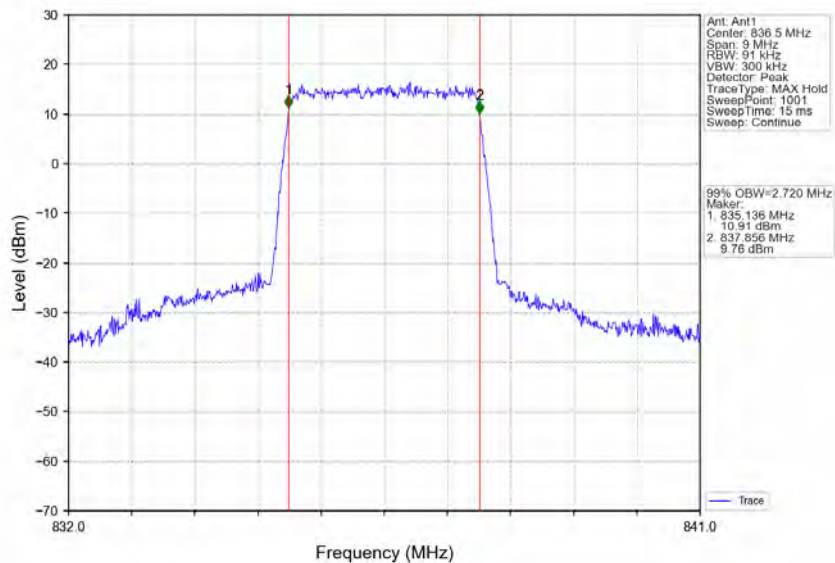
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Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV

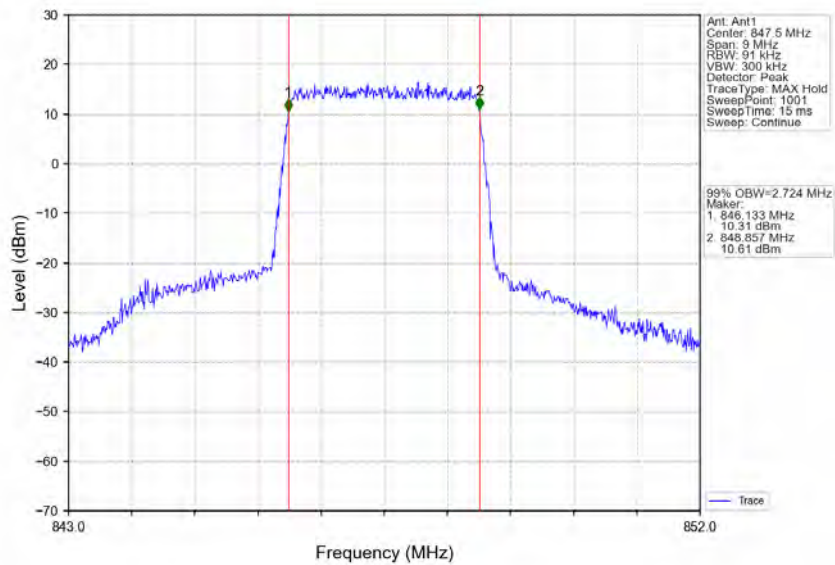


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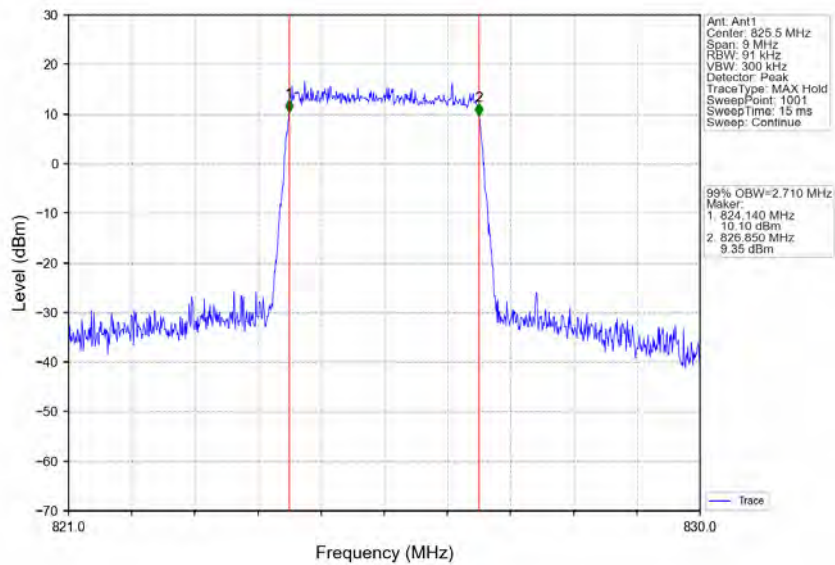
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Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



Band5\_3MHz\_64QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



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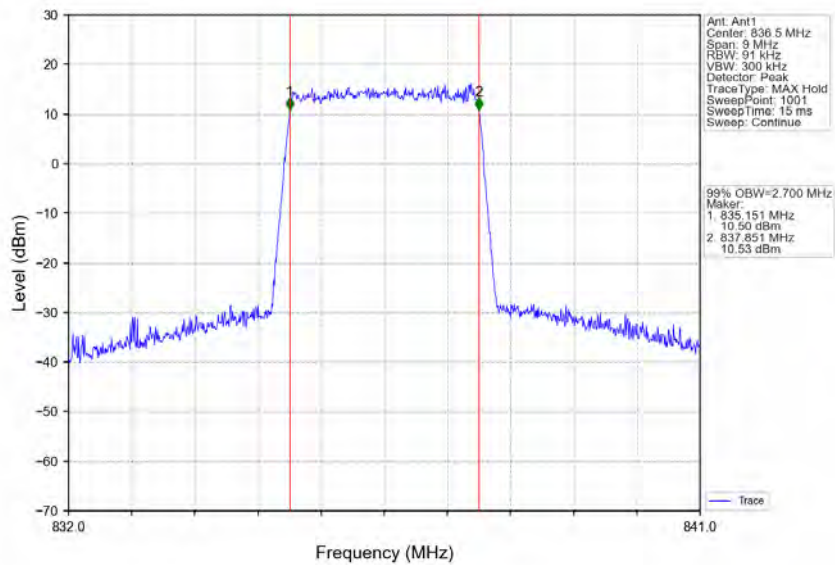
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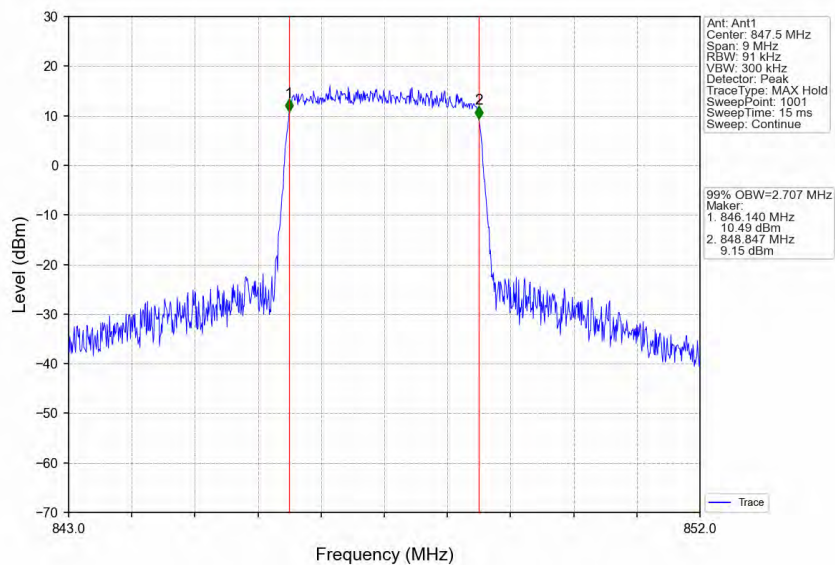
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Band5\_3MHz\_64QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



Band5\_3MHz\_64QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



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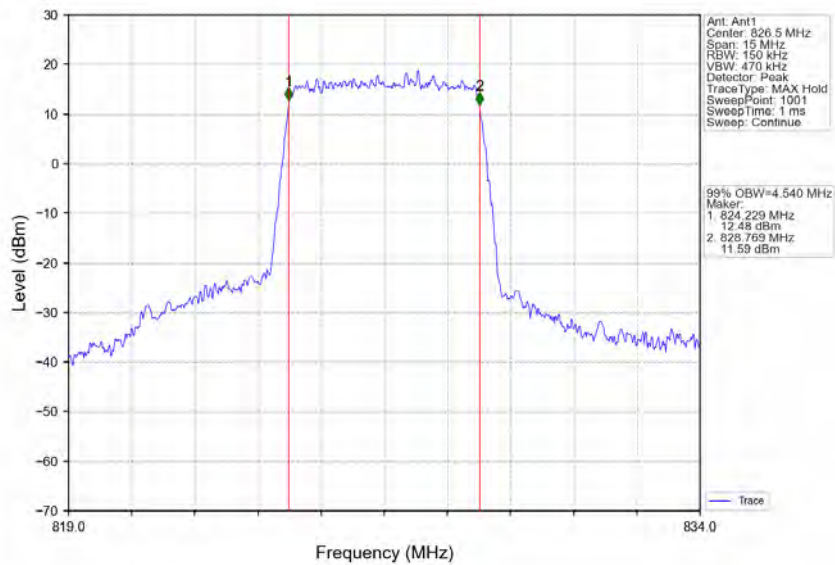
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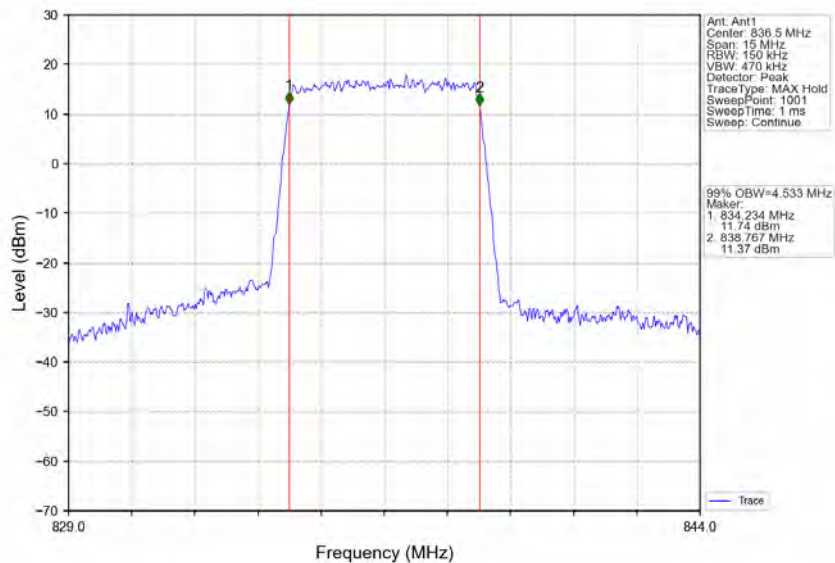
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Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



Band5\_5MHz\_QPSK\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



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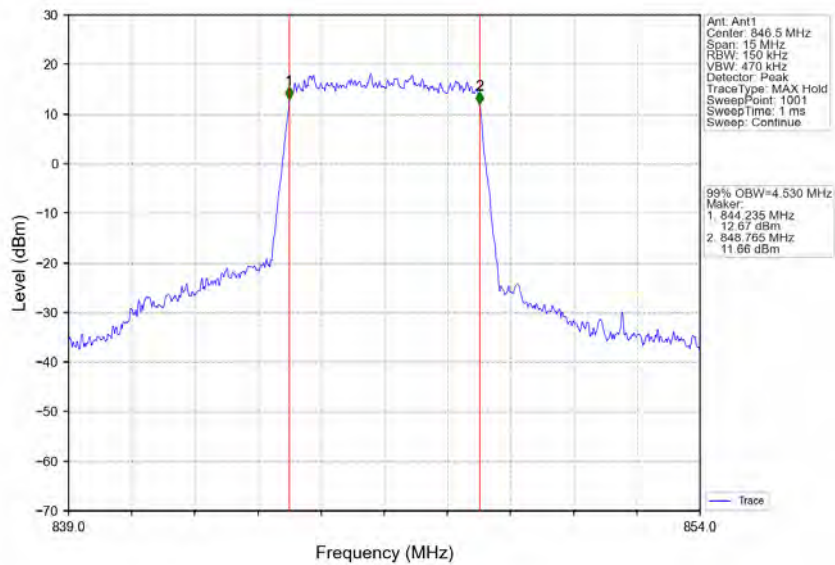
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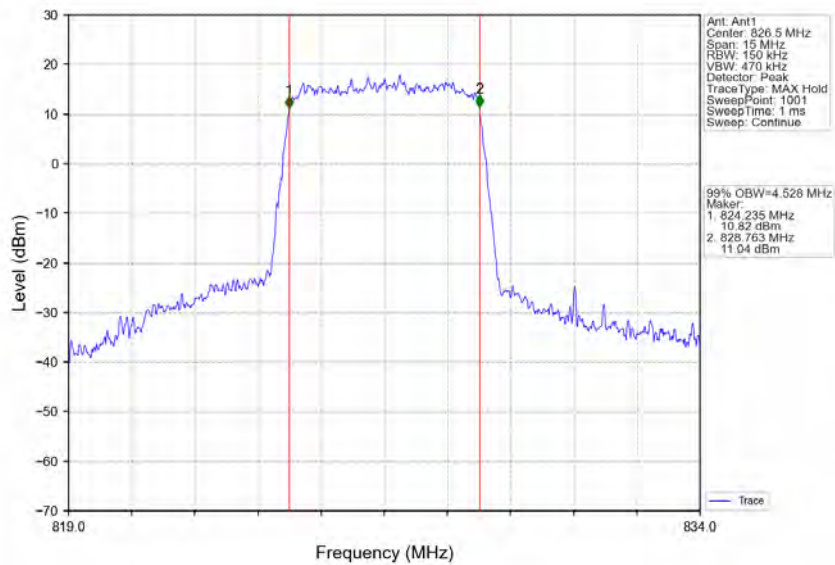
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Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



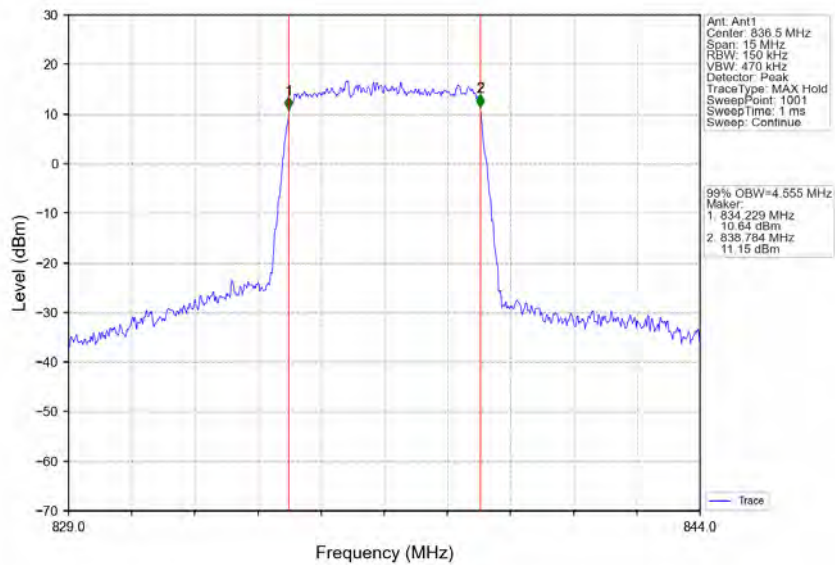
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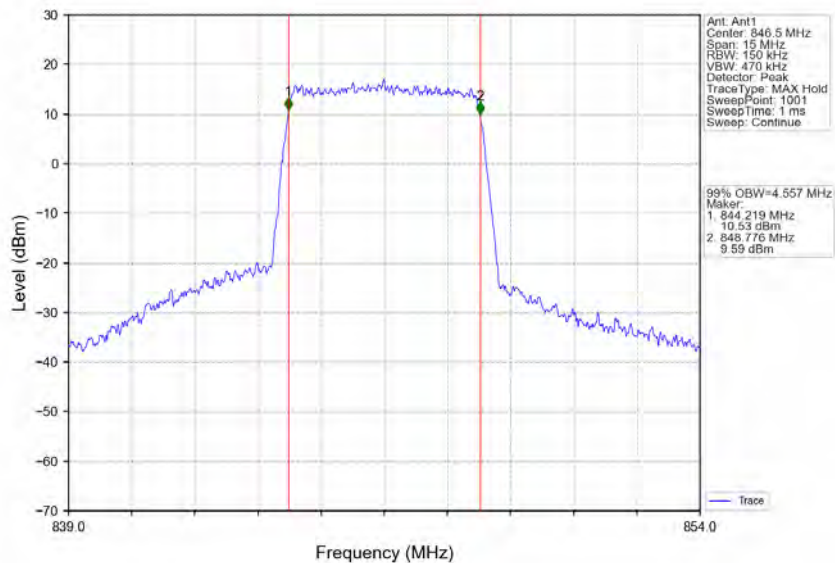
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Band5\_5MHz\_16QAM\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



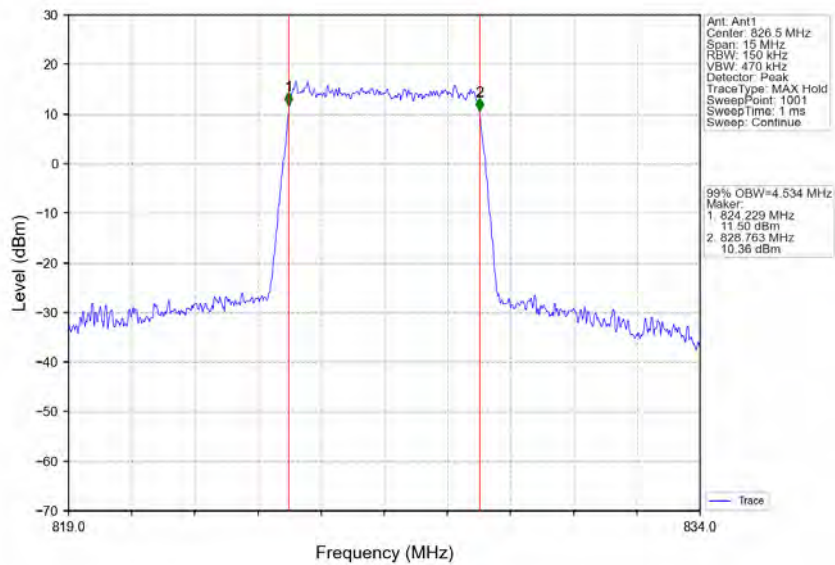
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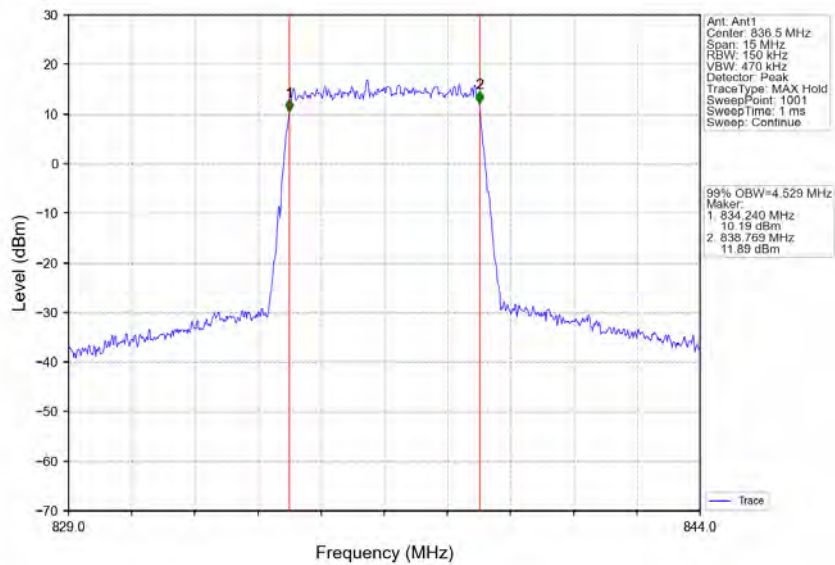
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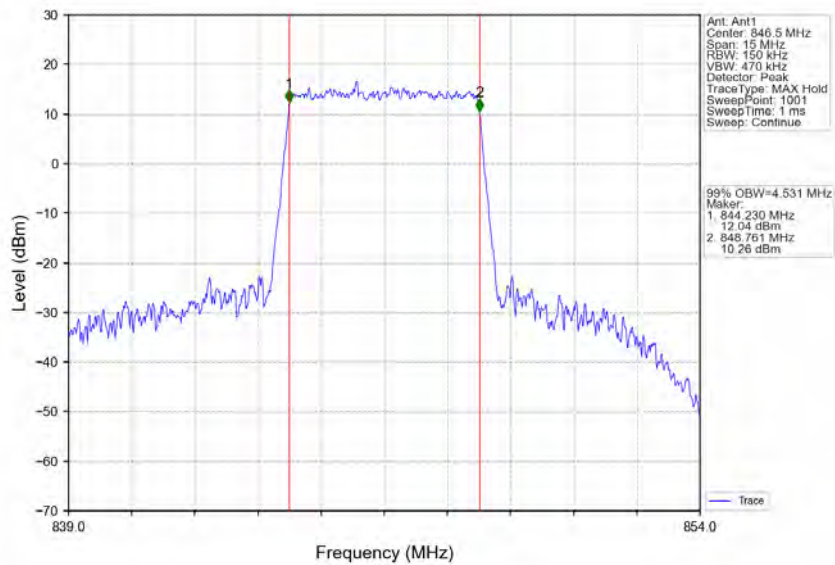
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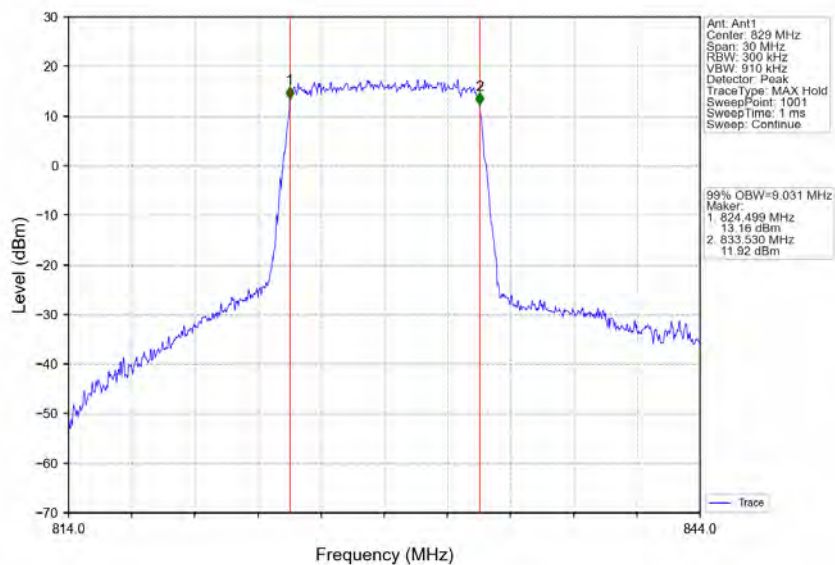
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Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_50\_0\_NTNV



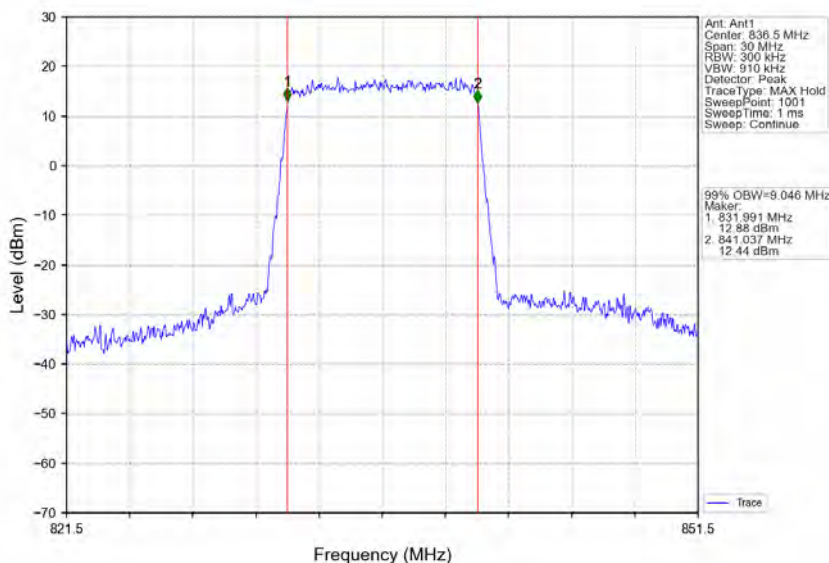
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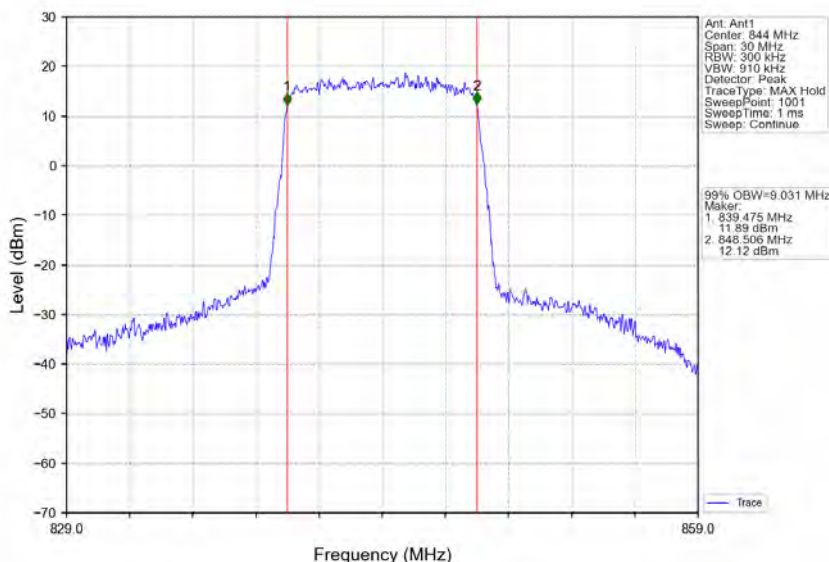
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Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV



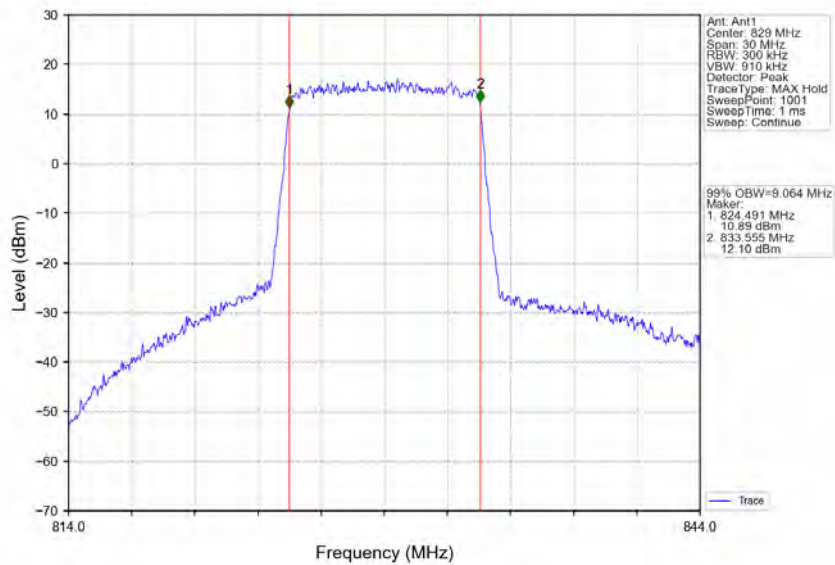
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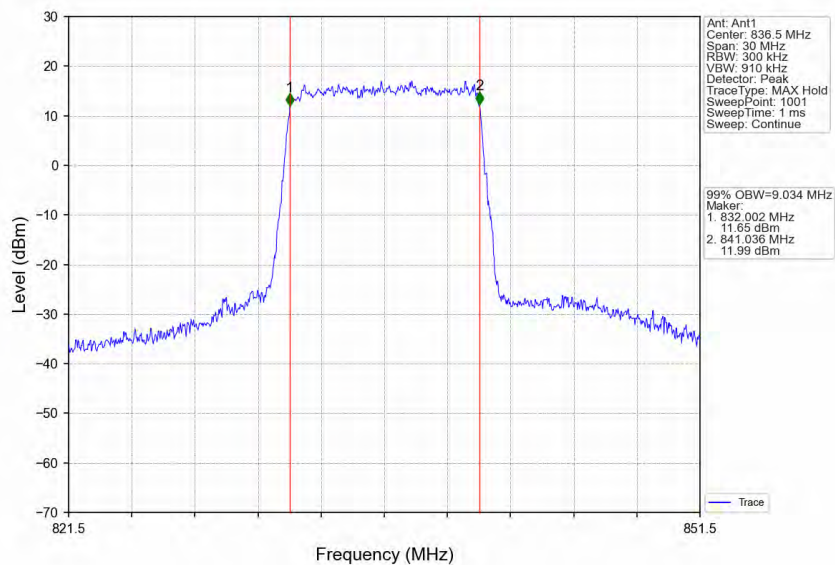
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Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_16QAM\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



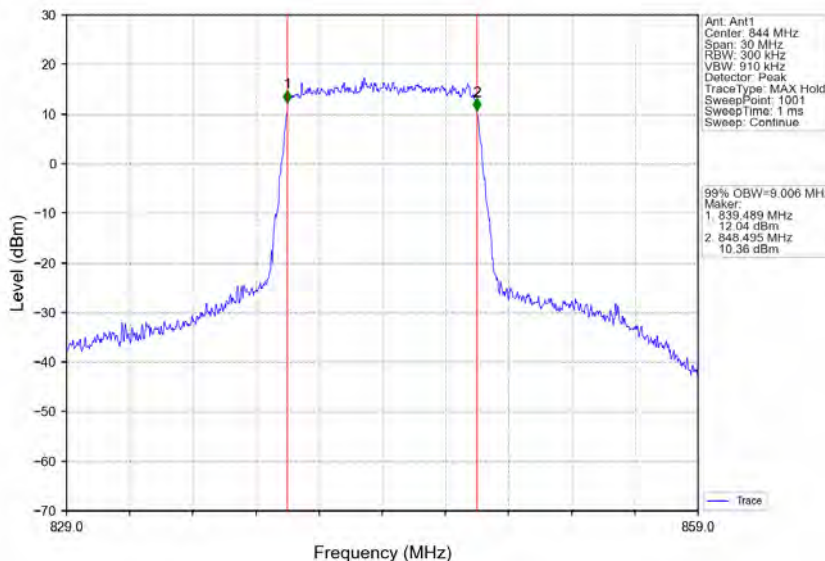
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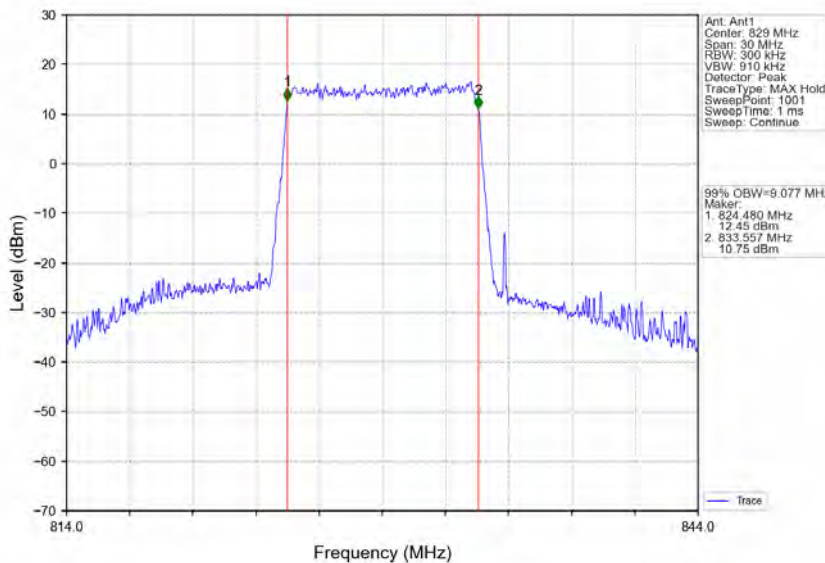
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Band5\_10MHz\_16QAM\_HCH\_844MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_64QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



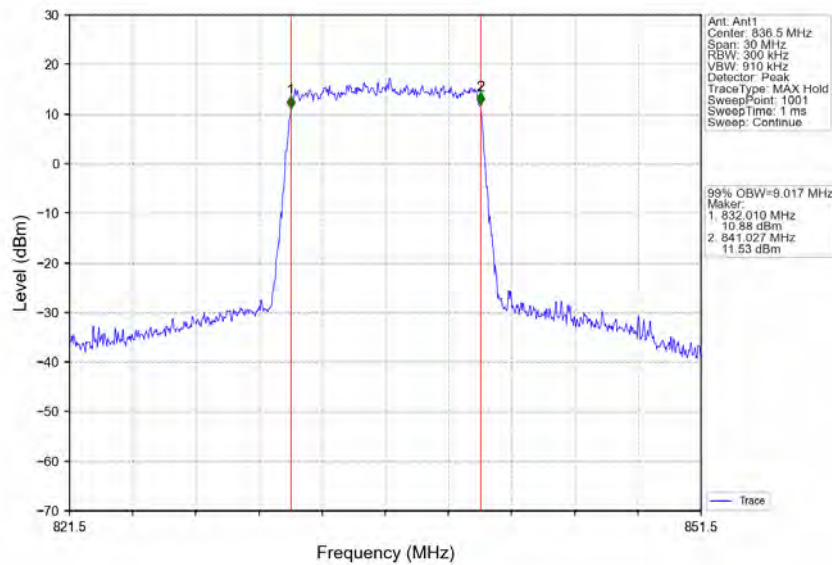
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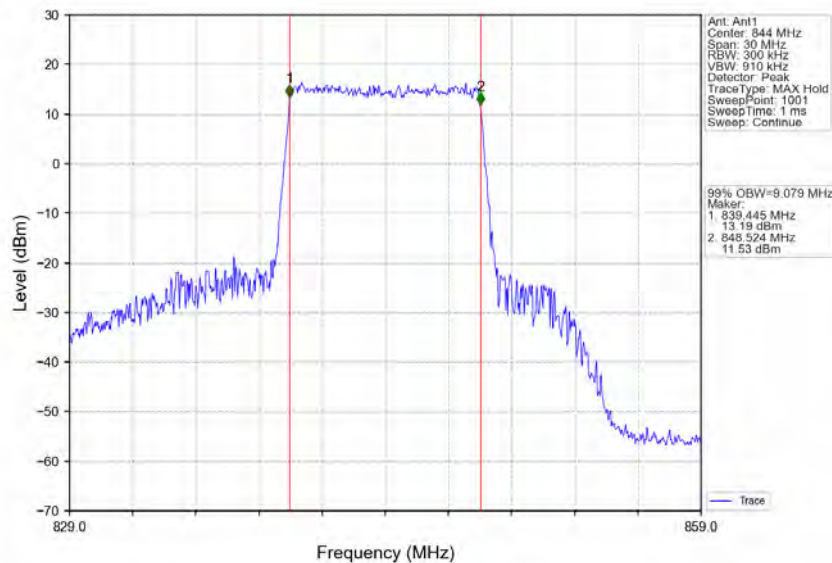
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4.2 Band5\_XDB

4.2.1 Test Result

Band: 5 / NTV						
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)	Verdict
			Size	Offset	Result	
1.4	QPSK	824.7	6	0	1.306	Pass
		836.5	6	0	1.312	Pass
		848.3	6	0	1.317	Pass
	16QAM	824.7	6	0	1.299	Pass
		836.5	6	0	1.300	Pass
		848.3	6	0	1.319	Pass
	64QAM	824.7	6	0	1.326	Pass
		836.5	6	0	1.288	Pass
		848.3	6	0	1.309	Pass
3	QPSK	825.5	15	0	3.033	Pass
		836.5	15	0	3.011	Pass
		847.5	15	0	3.037	Pass
	16QAM	825.5	15	0	3.022	Pass
		836.5	15	0	3.030	Pass
		847.5	15	0	3.038	Pass
	64QAM	825.5	15	0	2.964	Pass
		836.5	15	0	2.962	Pass
		847.5	15	0	2.945	Pass
5	QPSK	826.5	25	0	5.041	Pass
		836.5	25	0	5.033	Pass
		846.5	25	0	5.052	Pass
	16QAM	826.5	25	0	5.072	Pass
		836.5	25	0	5.071	Pass
		846.5	25	0	5.057	Pass
	64QAM	826.5	25	0	5.020	Pass
		836.5	25	0	5.029	Pass
		846.5	25	0	4.992	Pass
10	QPSK	829	50	0	10.039	Pass
		836.5	50	0	10.031	Pass
		844	50	0	9.973	Pass
	16QAM	829	50	0	10.005	Pass
		836.5	50	0	9.985	Pass
		844	50	0	9.936	Pass
	64QAM	829	50	0	9.982	Pass
		836.5	50	0	9.806	Pass
		844	50	0	9.968	Pass

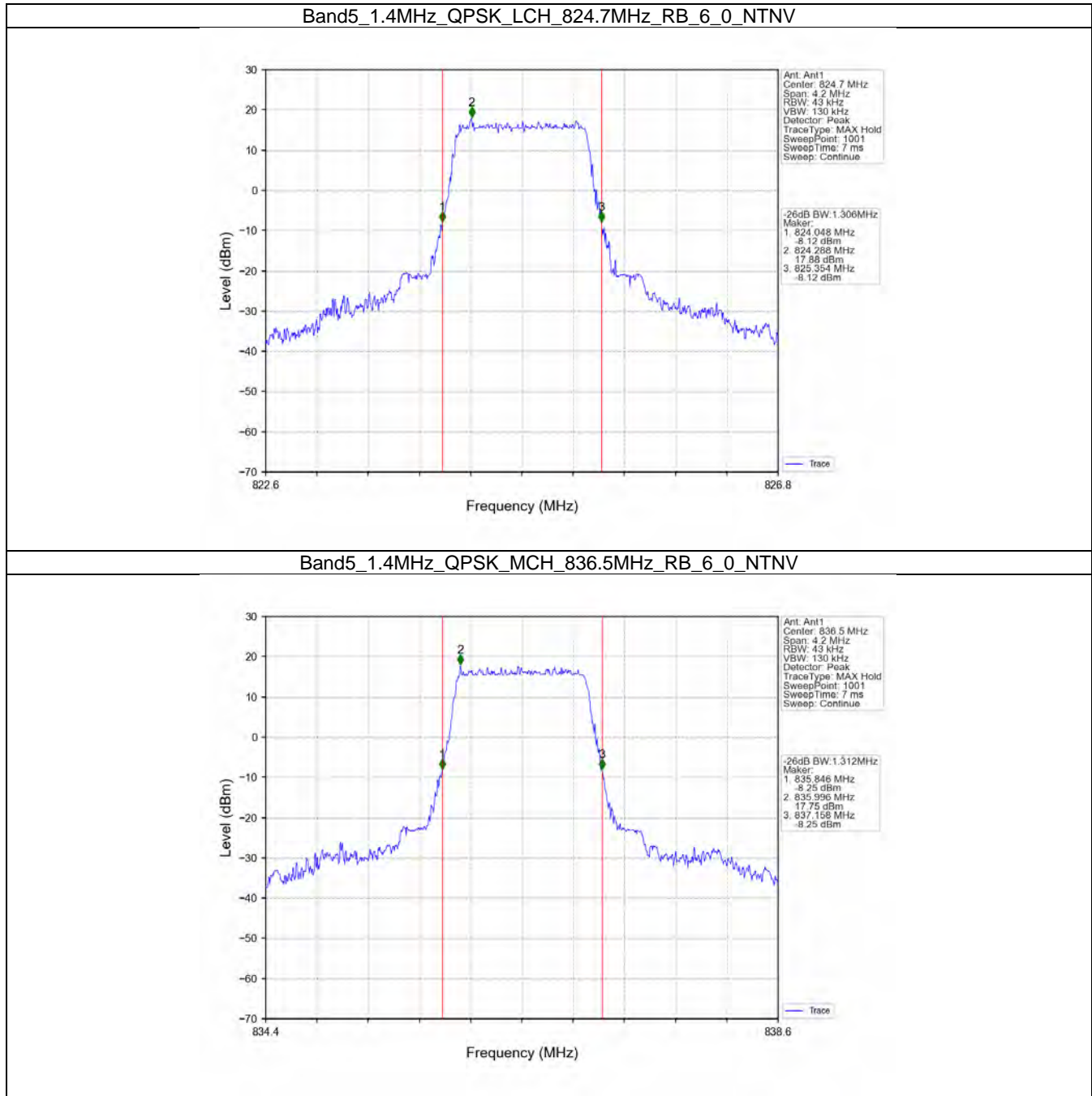


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4.2.2 Test Graph



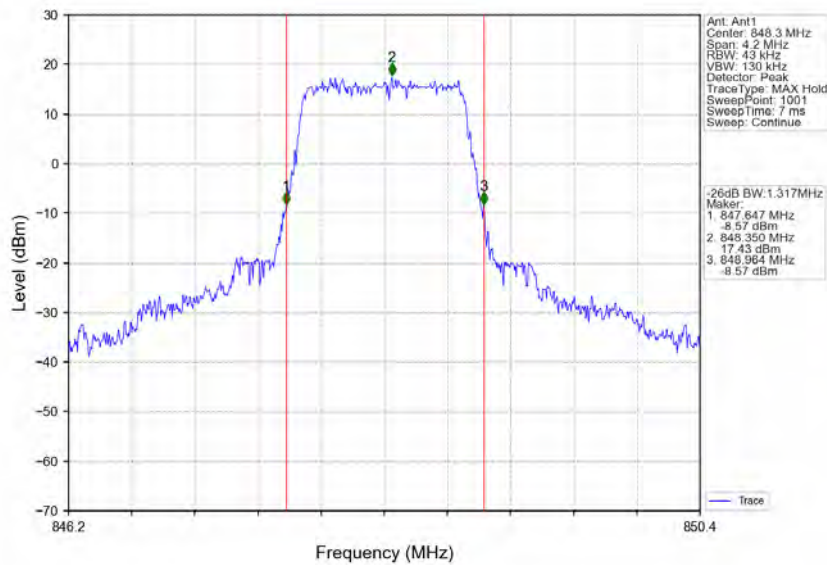
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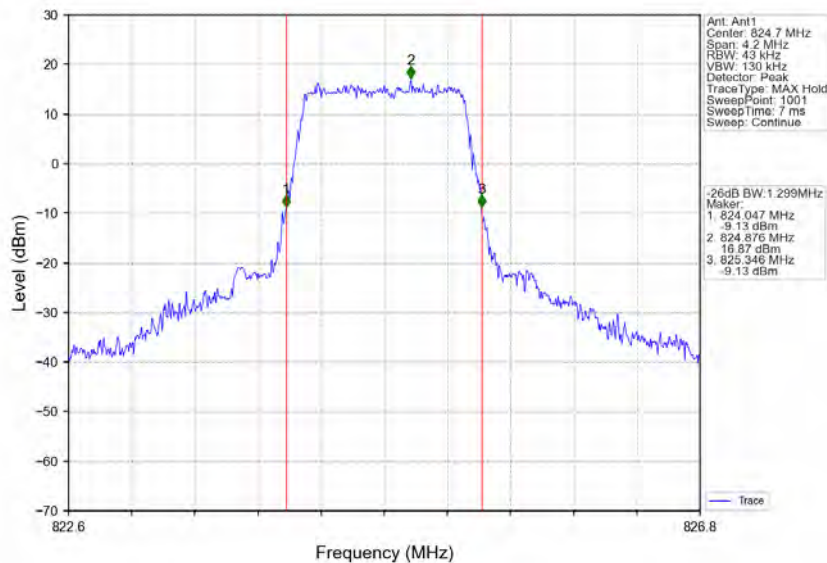
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Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



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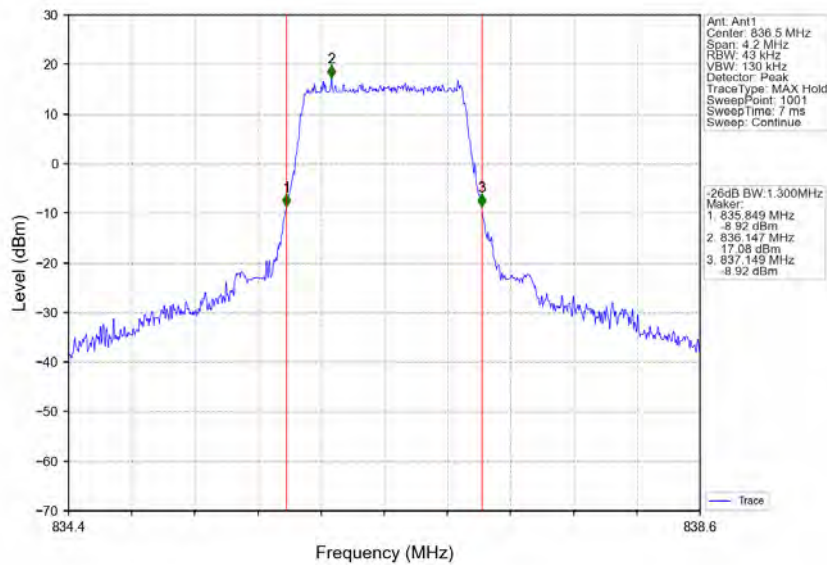
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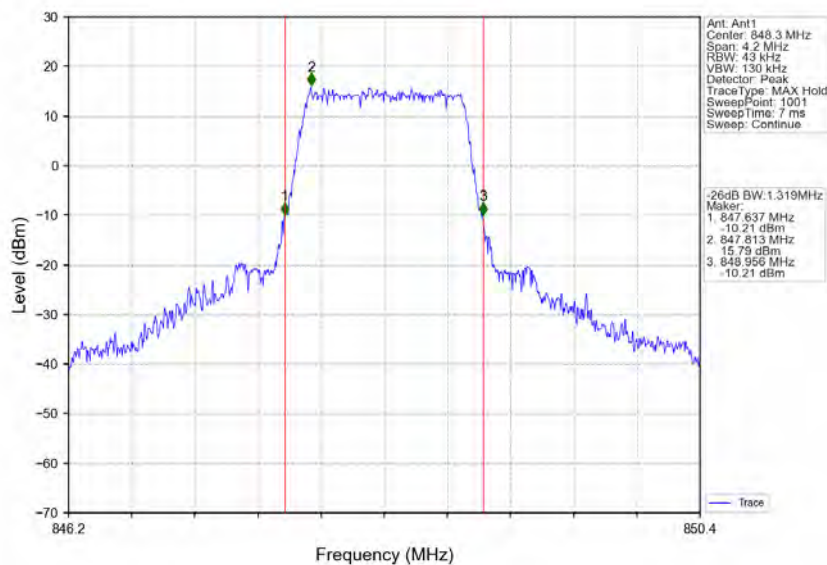
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Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



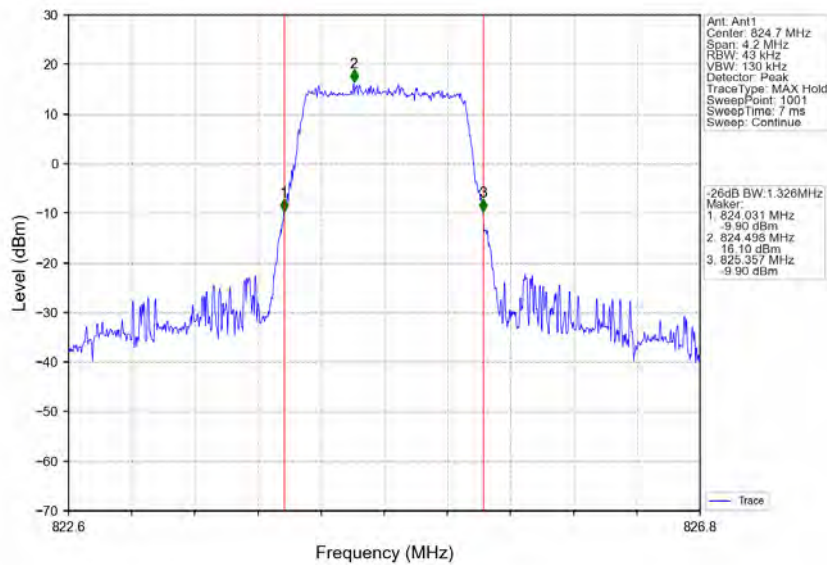
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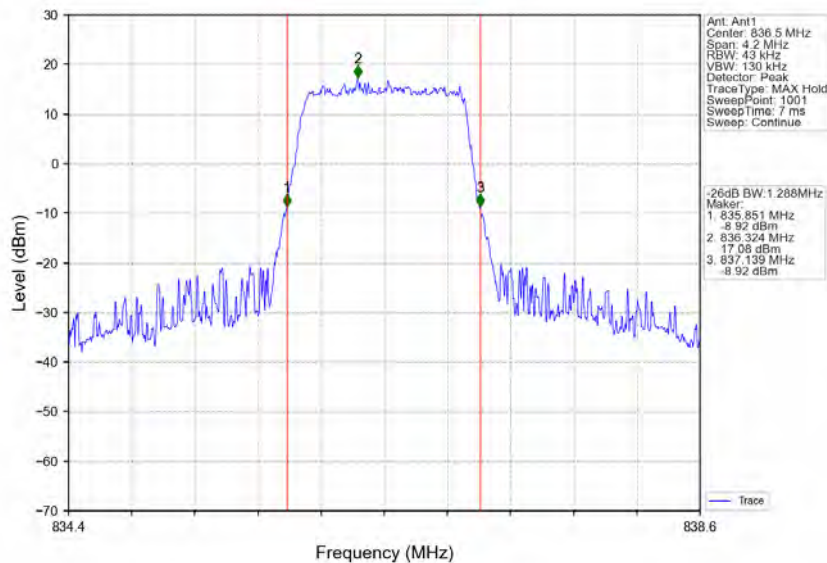
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Band5\_1.4MHz\_64QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



Band5\_1.4MHz\_64QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



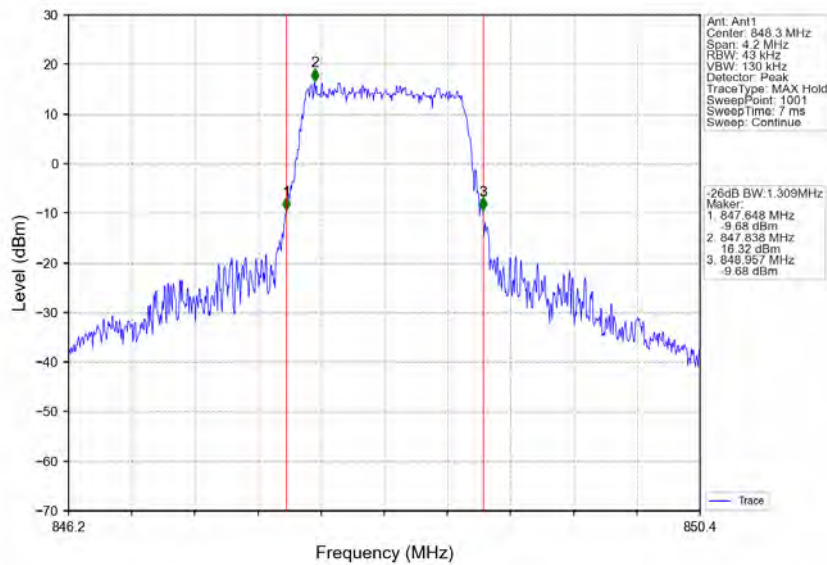
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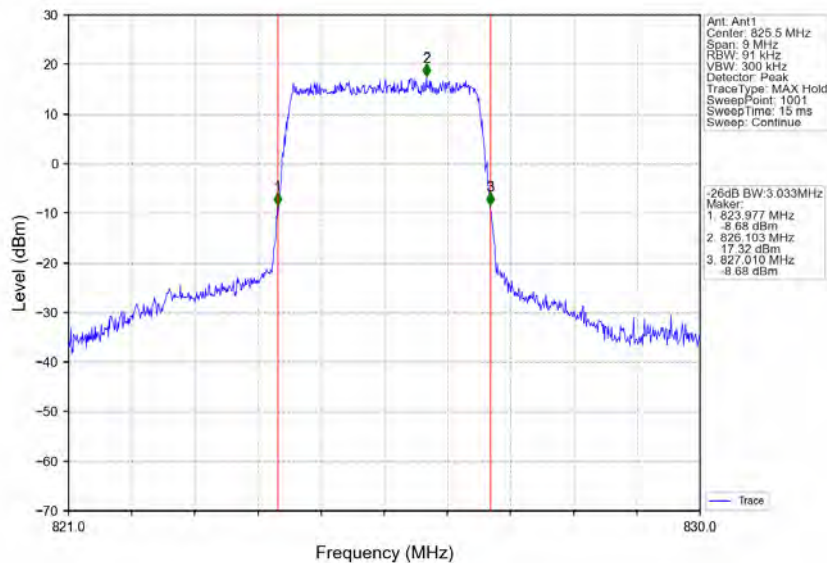
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Band5\_1.4MHz\_64QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



Band5\_3MHz\_QPSK\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



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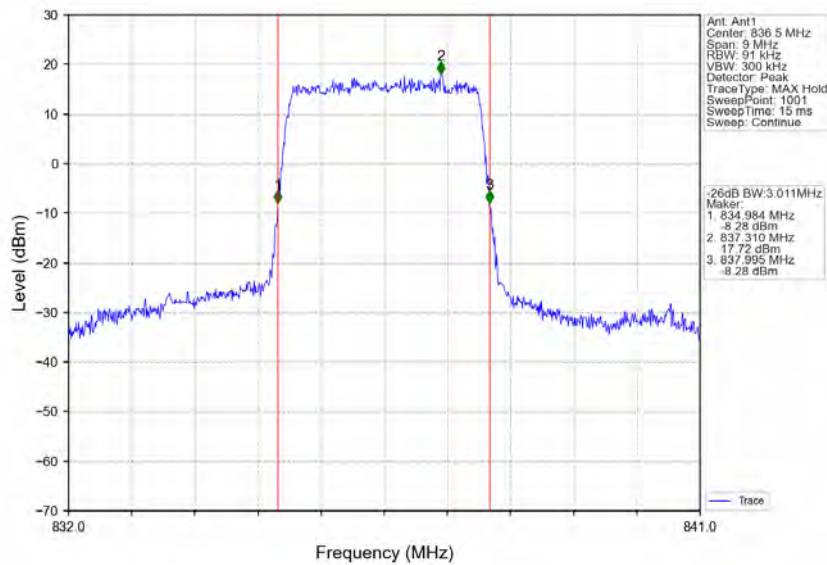
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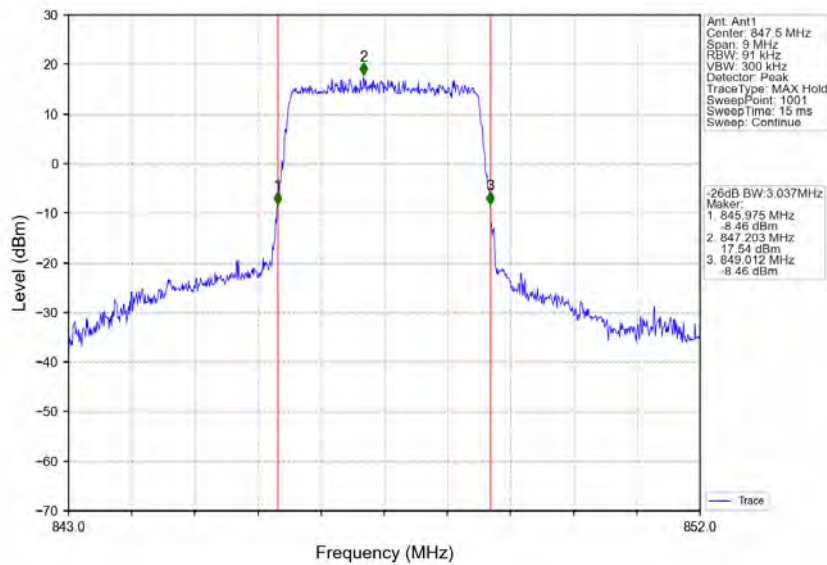
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Band5\_3MHz\_QPSK\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



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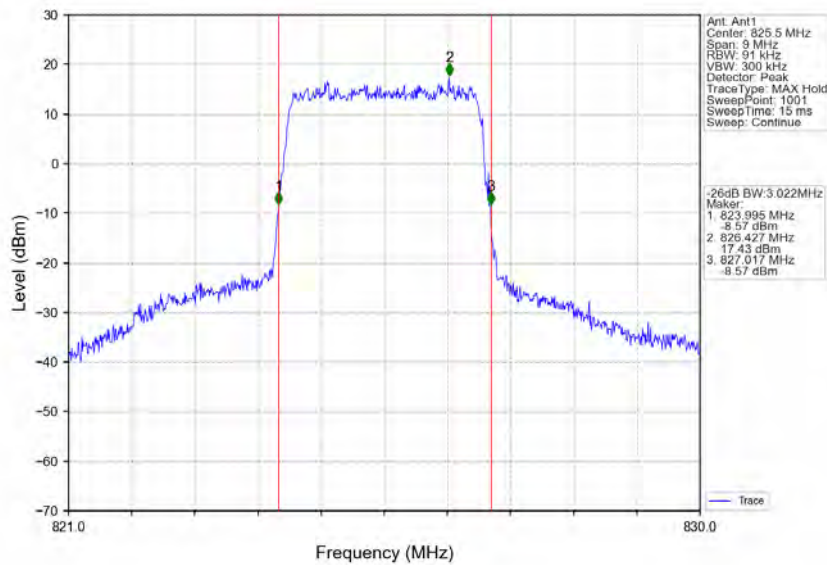
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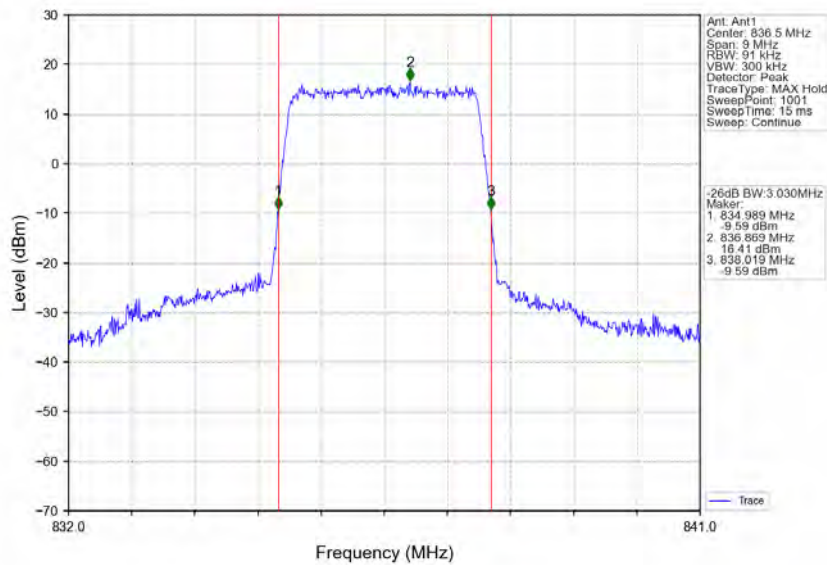
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Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



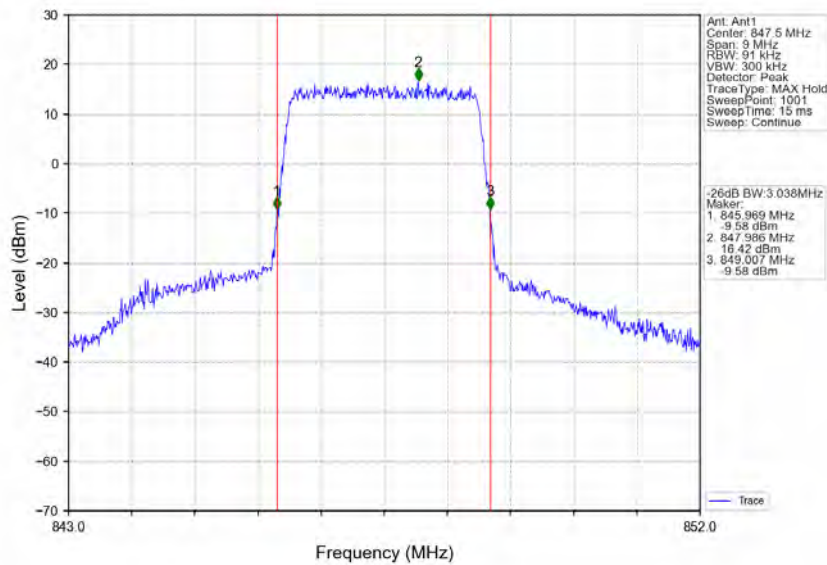
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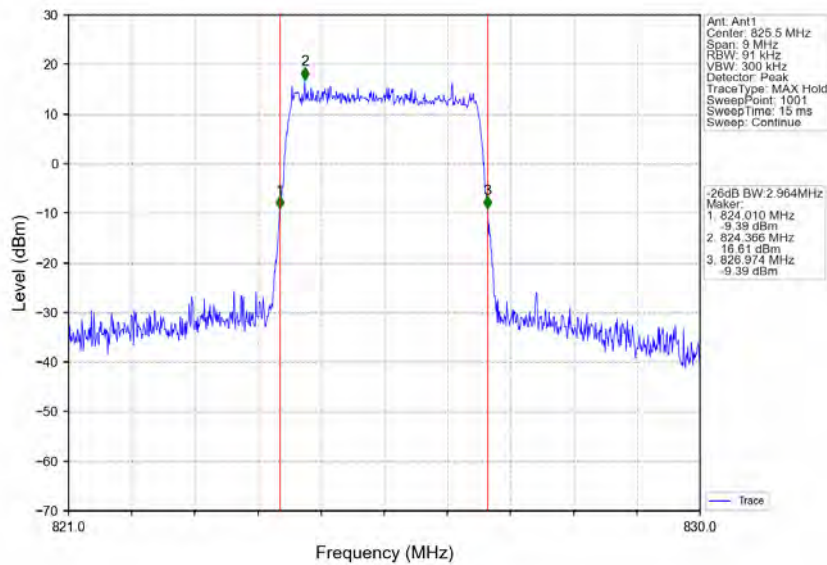
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Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



Band5\_3MHz\_64QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



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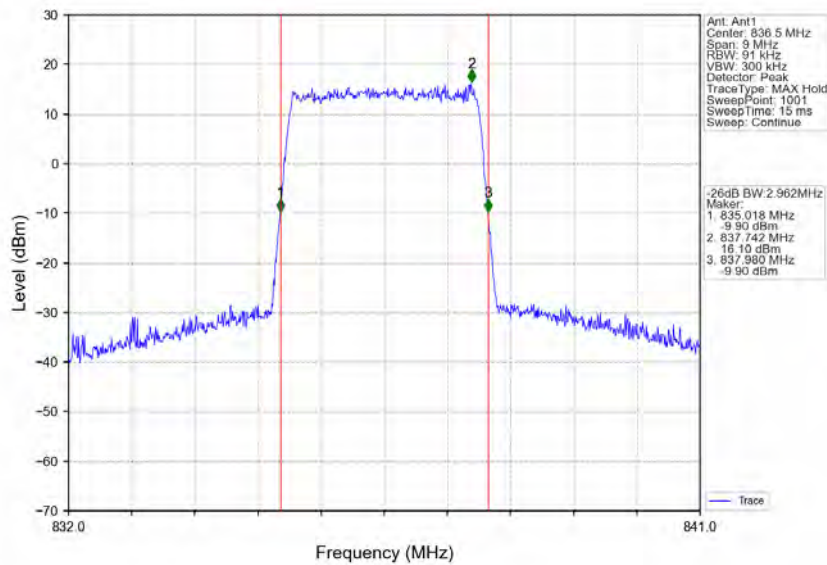
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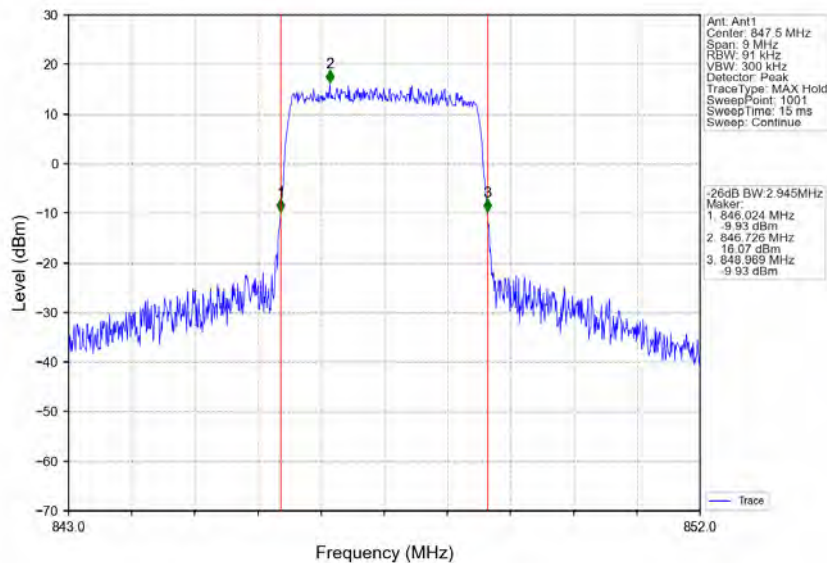
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Band5\_3MHz\_64QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



Band5\_3MHz\_64QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



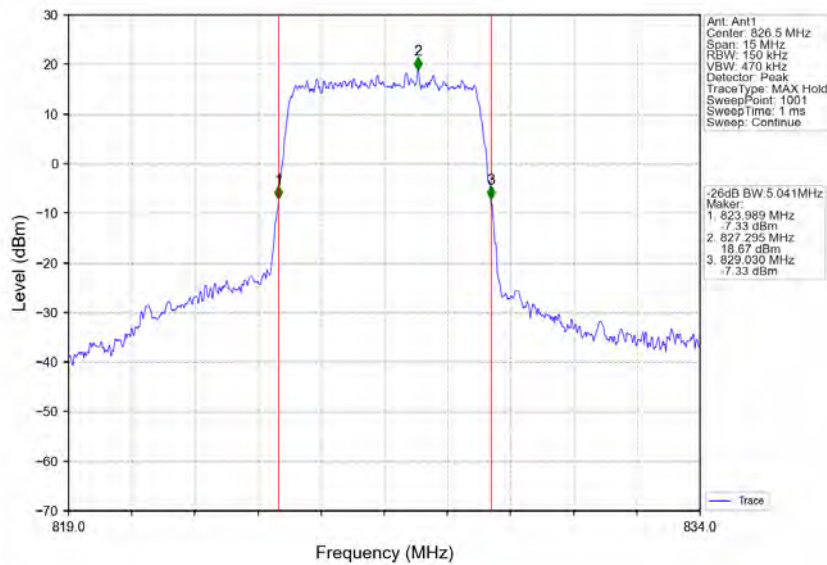
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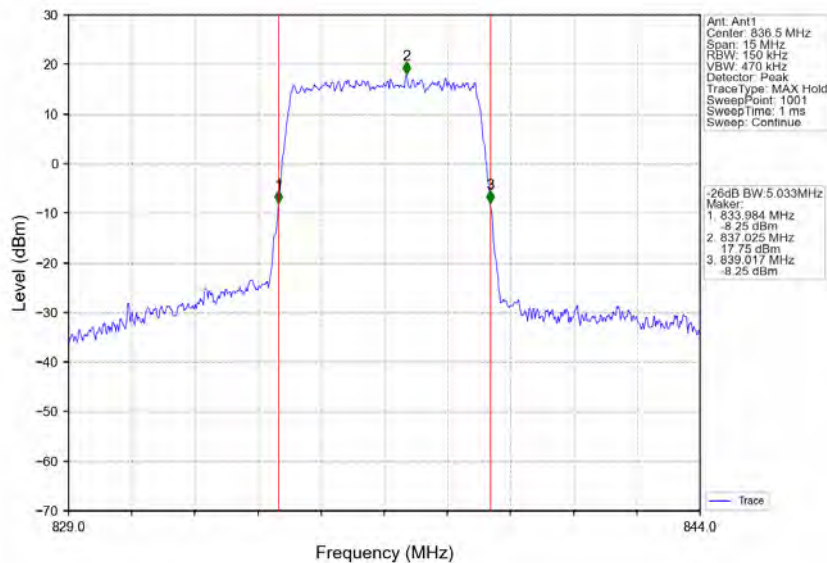
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Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



Band5\_5MHz\_QPSK\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



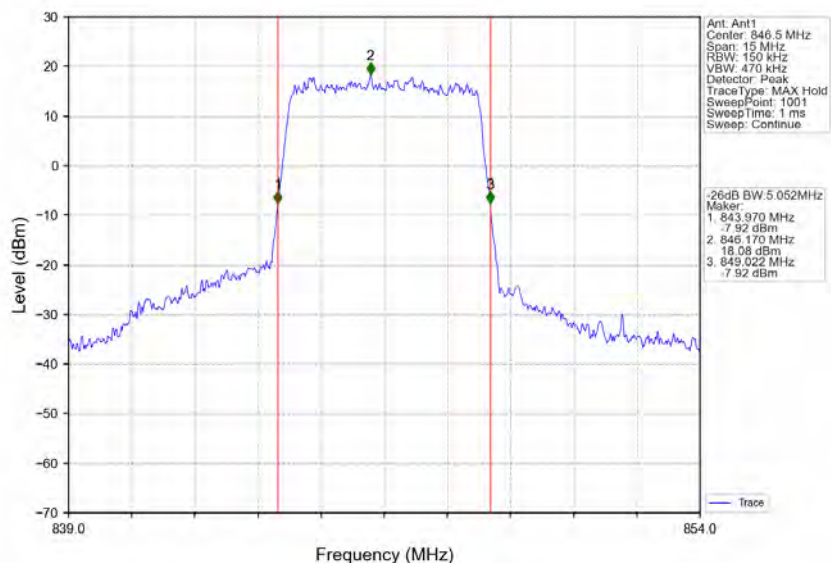
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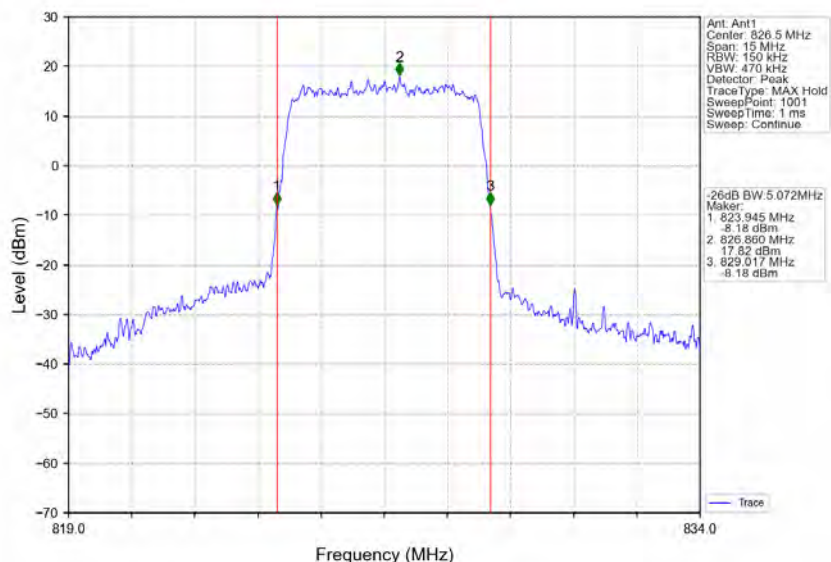
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Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



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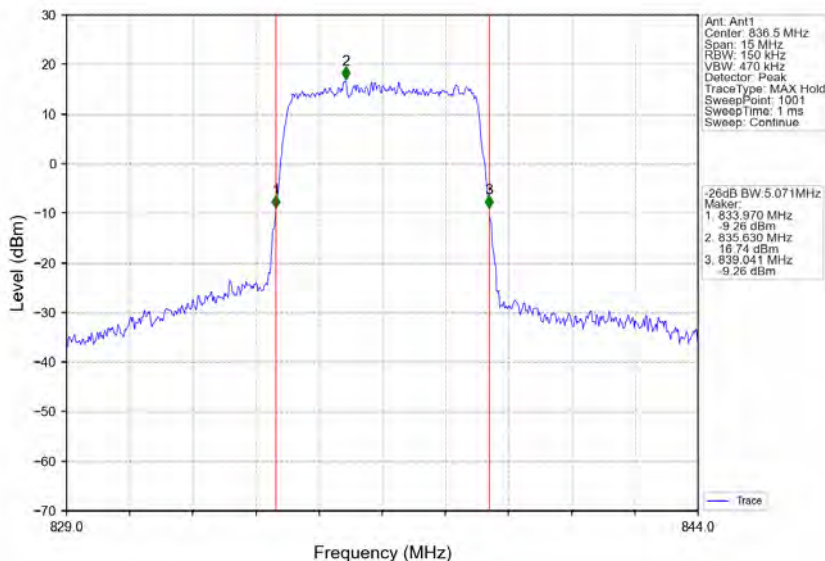
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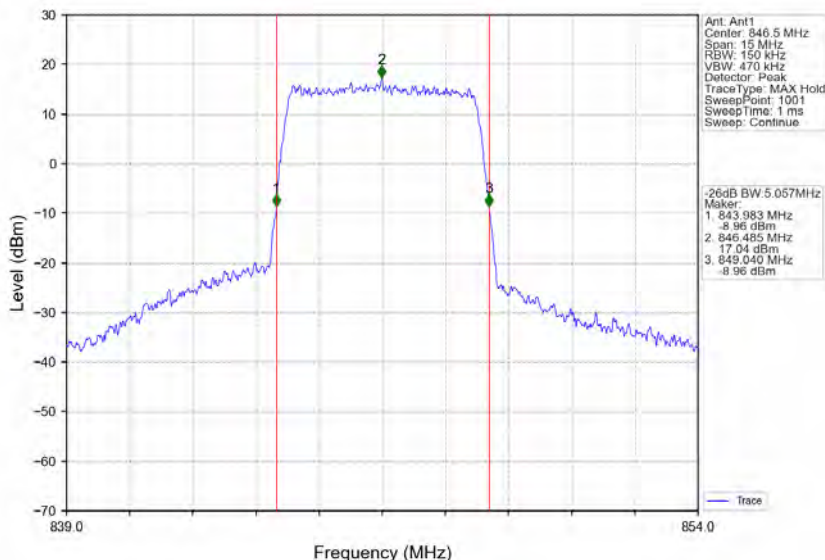
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Band5\_5MHz\_16QAM\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



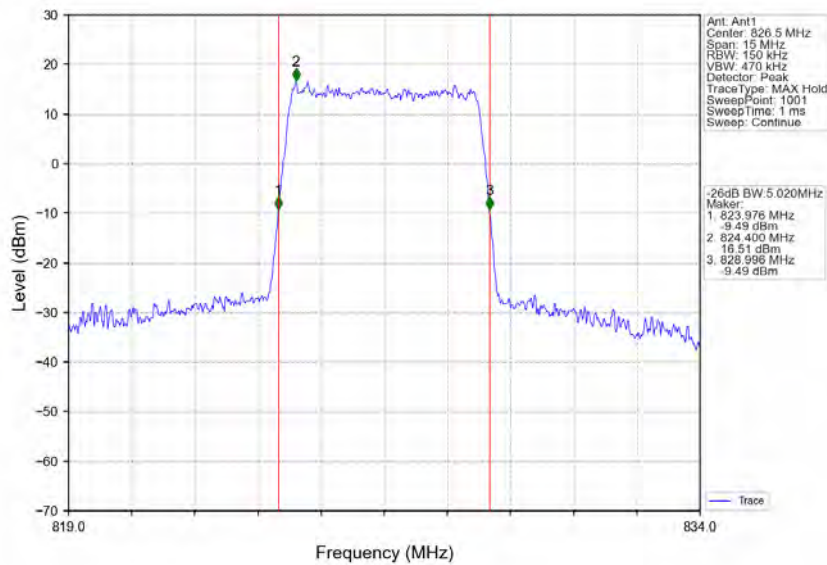
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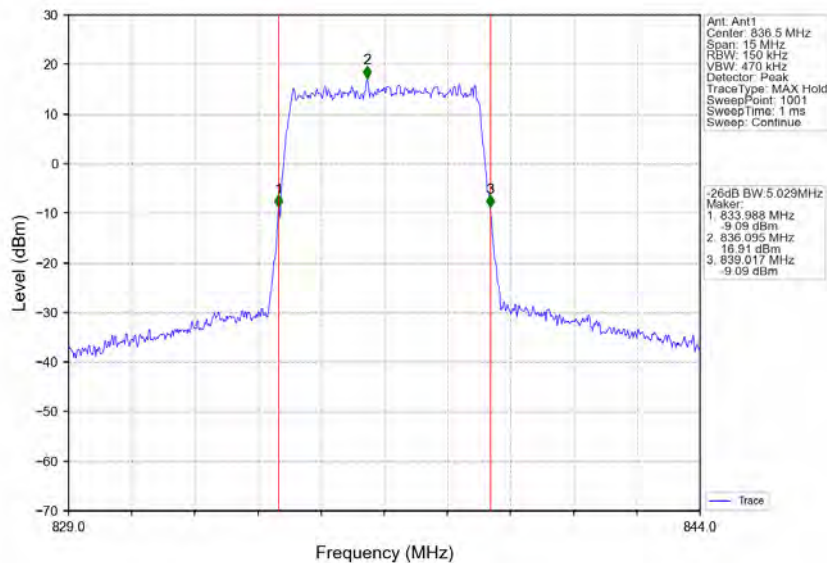
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Band5\_5MHz\_64QAM\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



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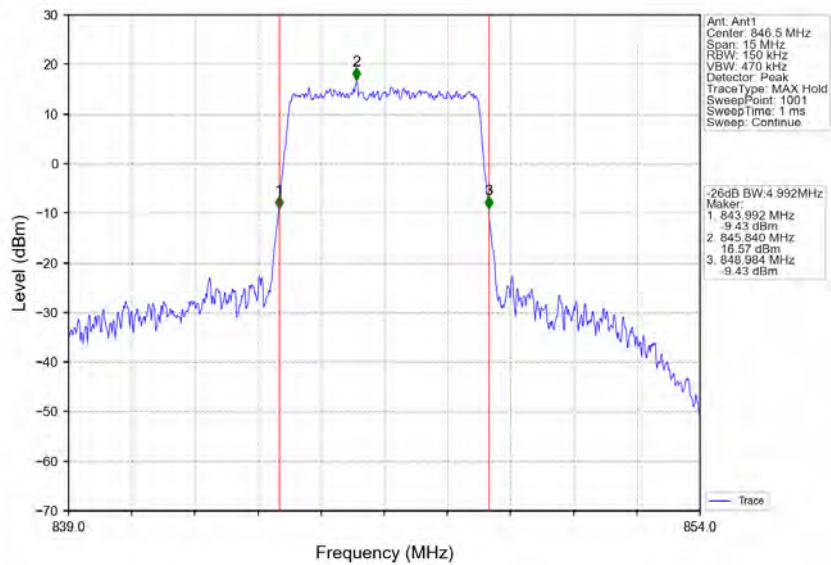
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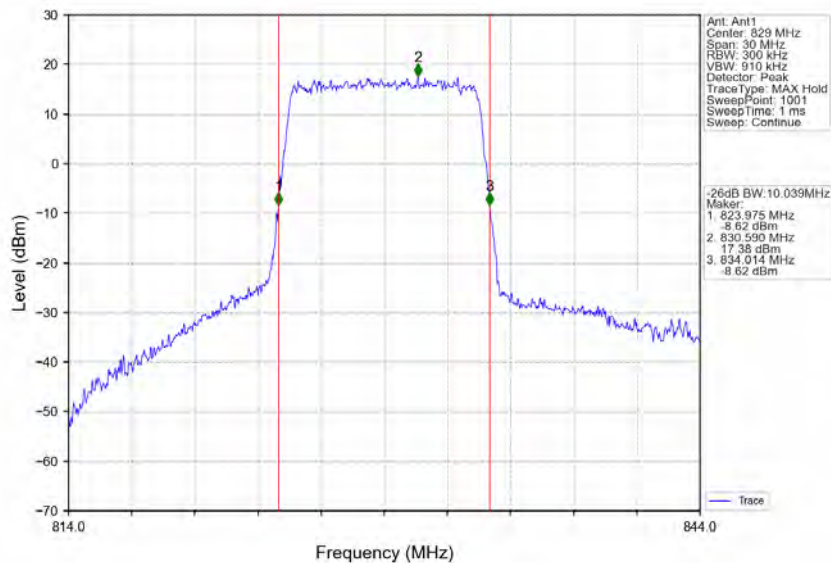
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Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_50\_0\_NTNV



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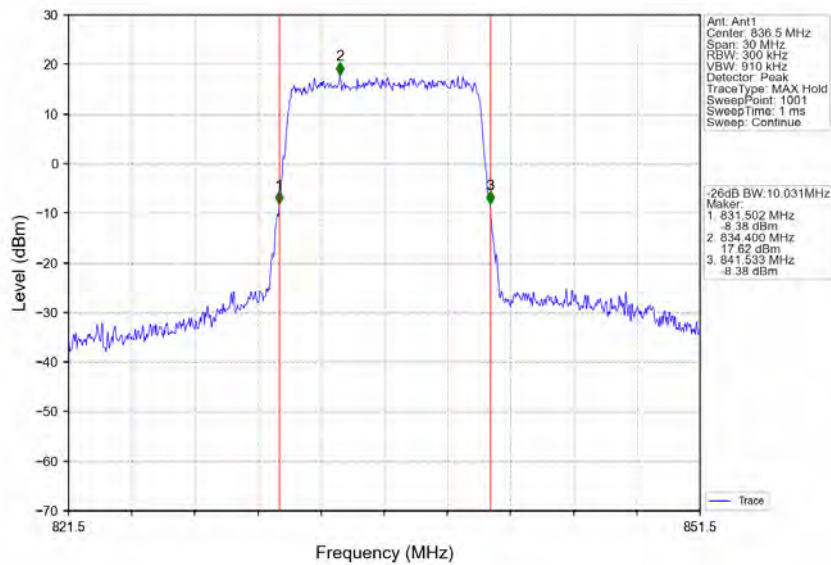
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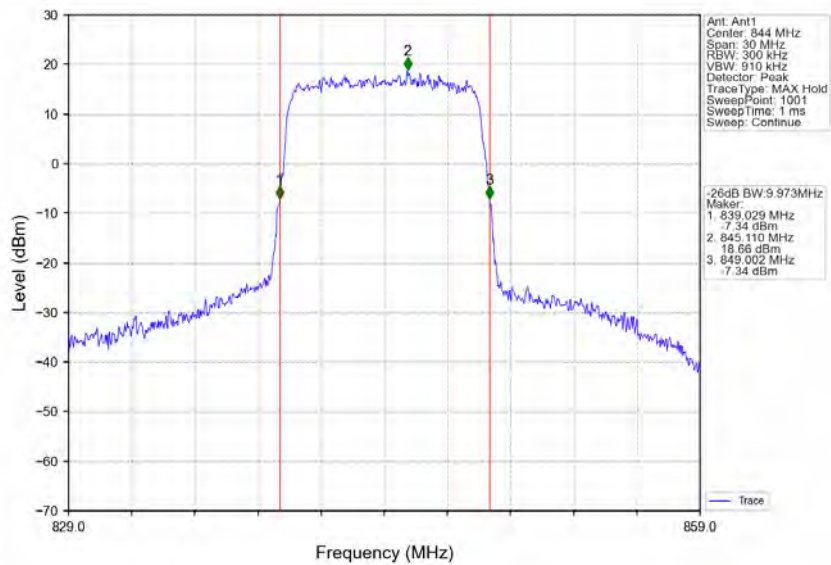
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Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV



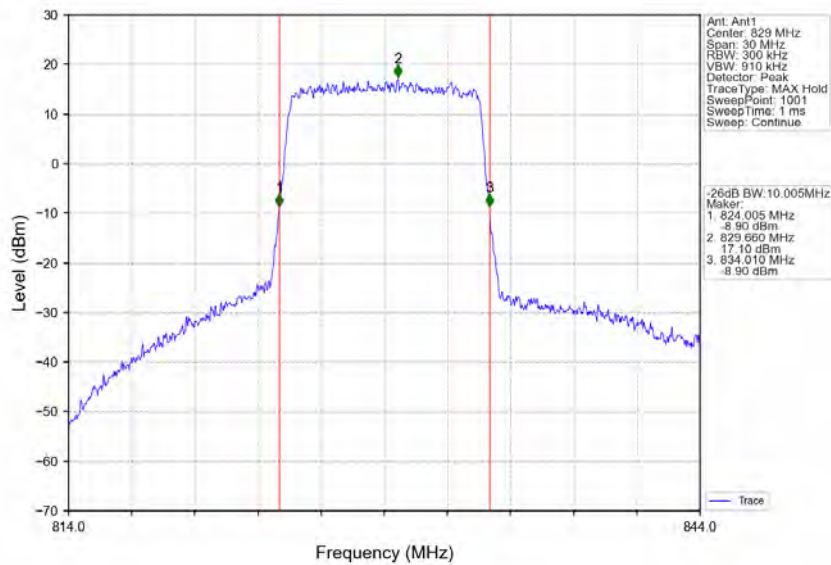
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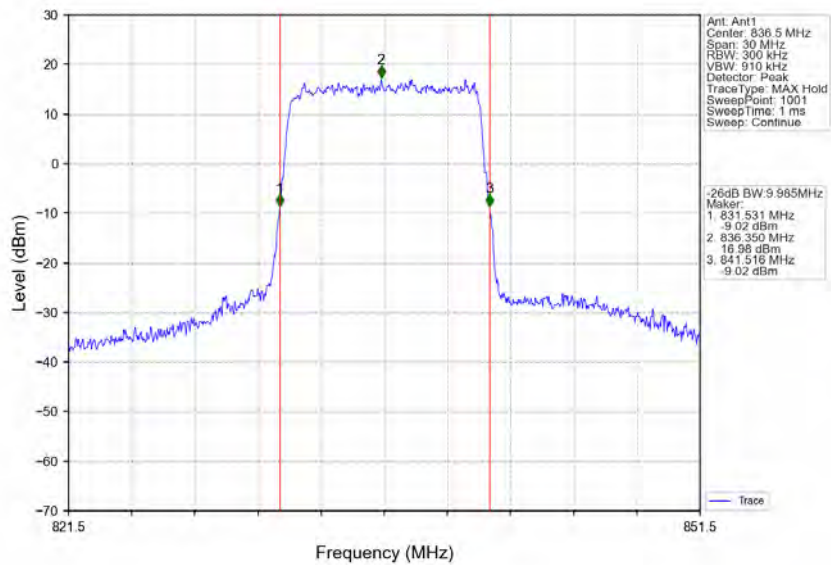
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Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_16QAM\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



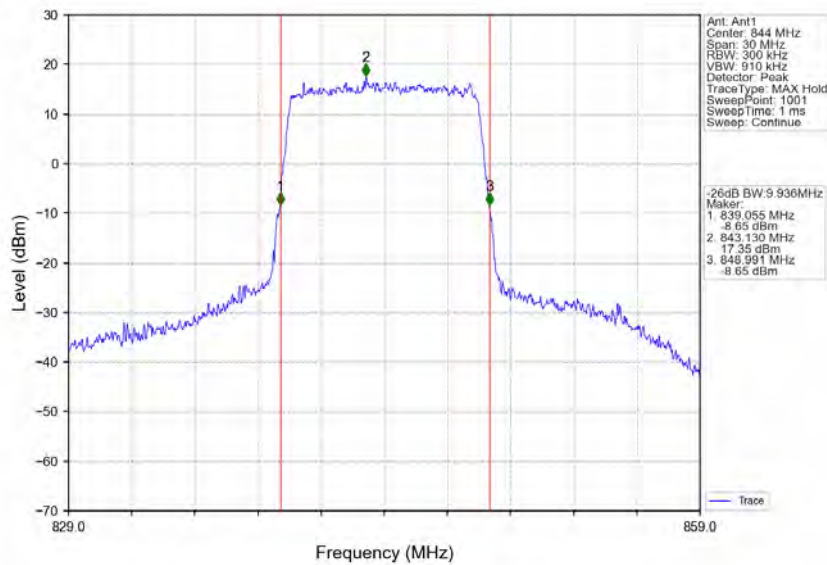
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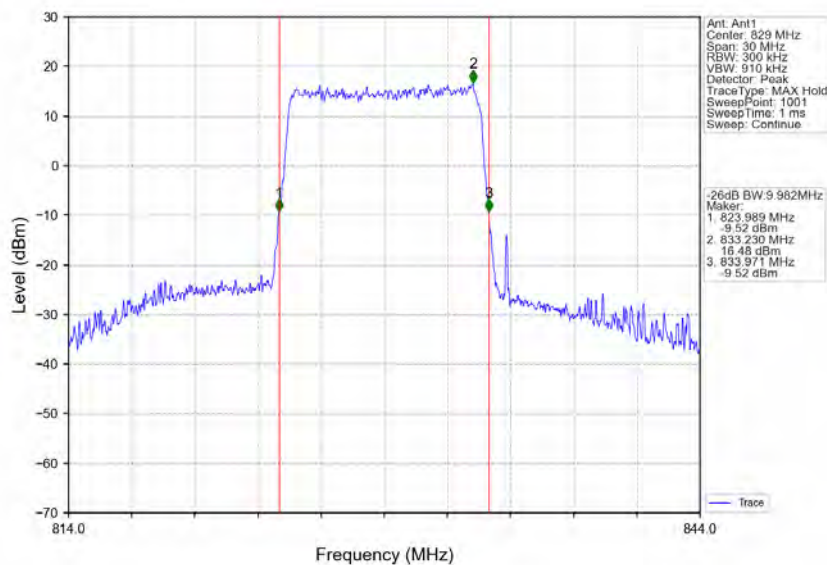
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Band5\_10MHz\_16QAM\_HCH\_844MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_64QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



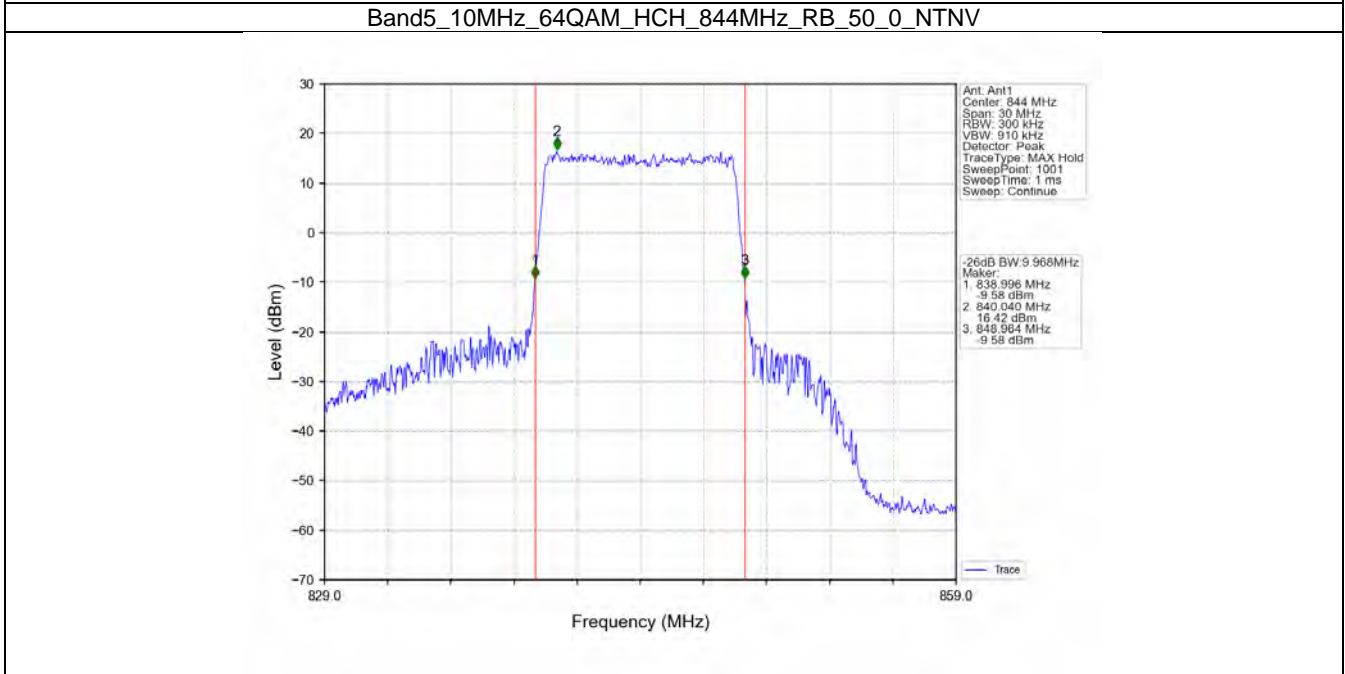
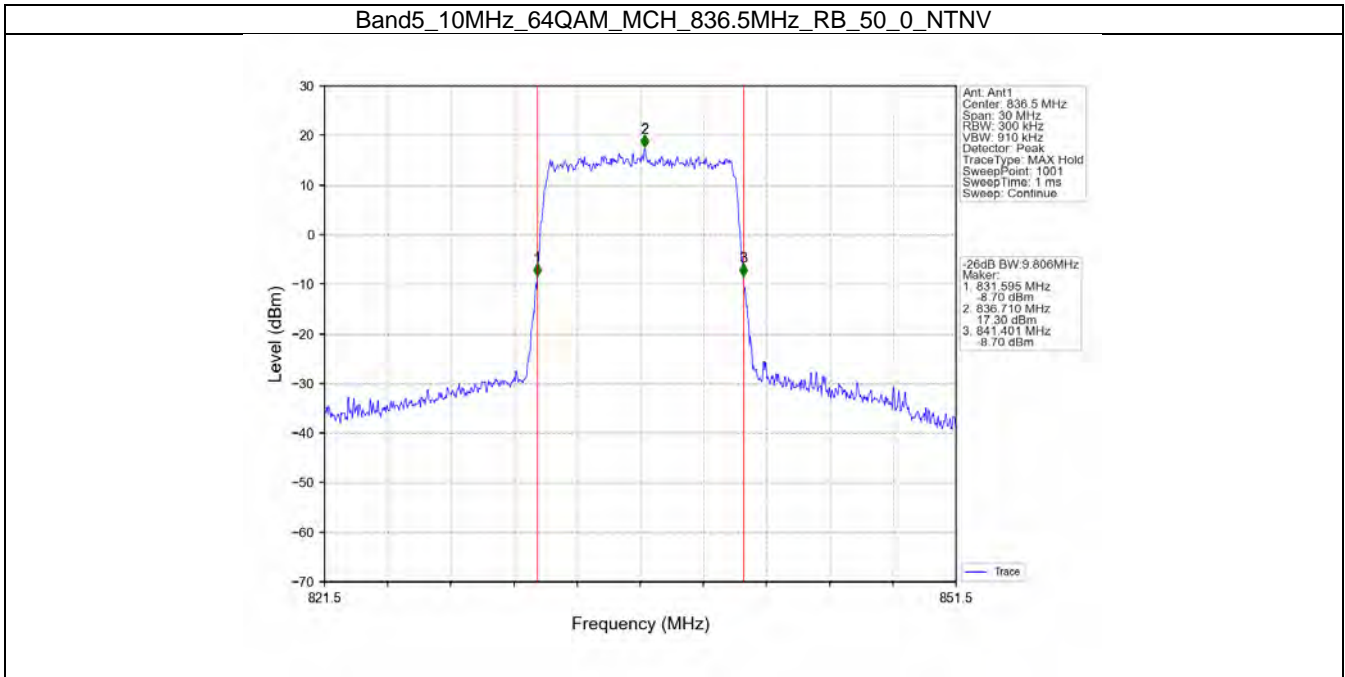
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## 5. Peak-Average Ratio

### 5.1 B5\_1.4MHz

#### 5.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	824.7	6	0	4.79	<=13	Pass
	836.5	6	0	4.71	<=13	Pass
	848.3	6	0	4.78	<=13	Pass
16QAM	824.7	6	0	5.74	<=13	Pass
	836.5	6	0	5.65	<=13	Pass
	848.3	6	0	5.64	<=13	Pass
64QAM	824.7	6	0	6.26	<=13	Pass
	836.5	6	0	6.74	<=13	Pass
	848.3	6	0	6.09	<=13	Pass



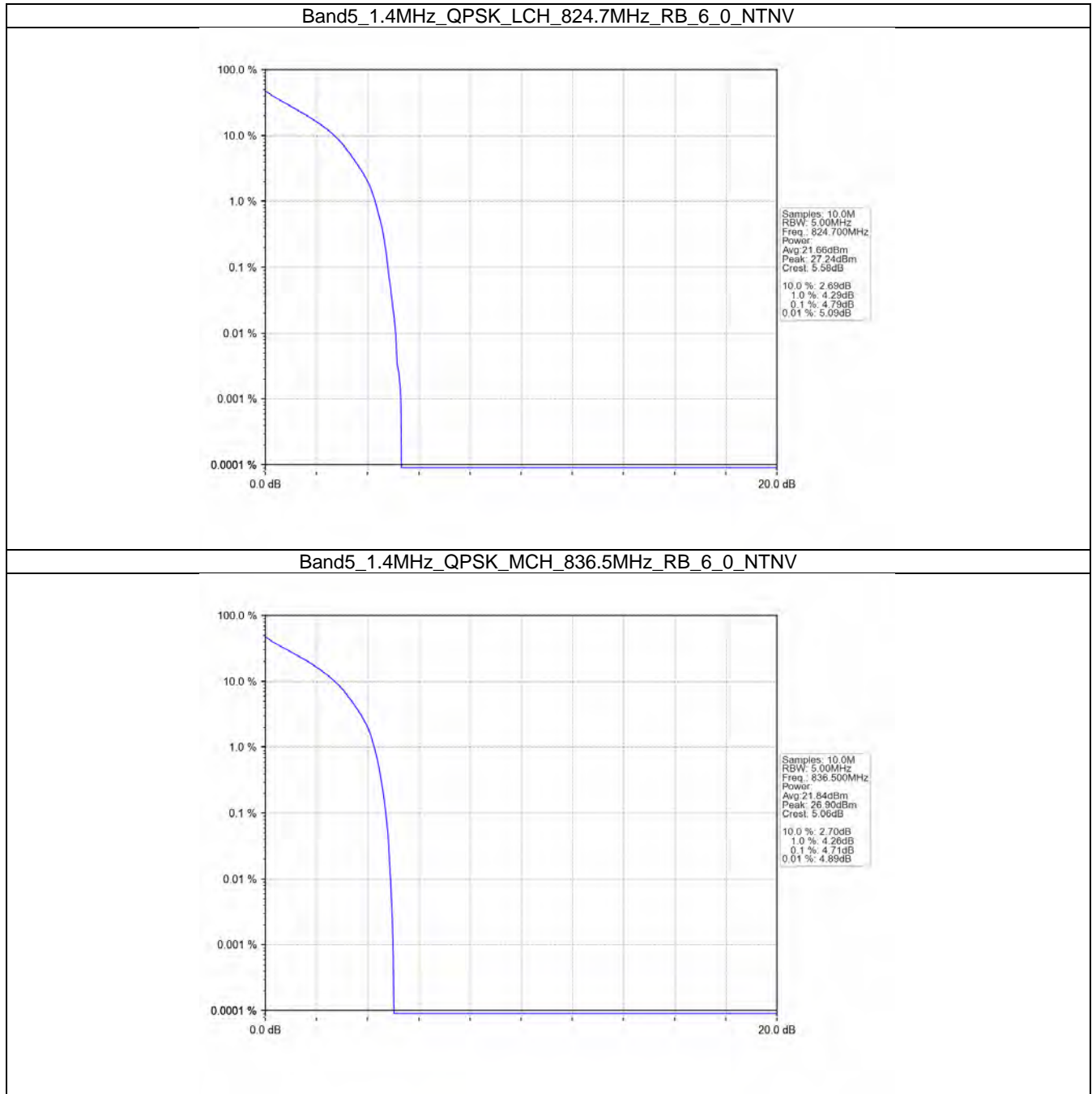
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5.1.2 Test Graph



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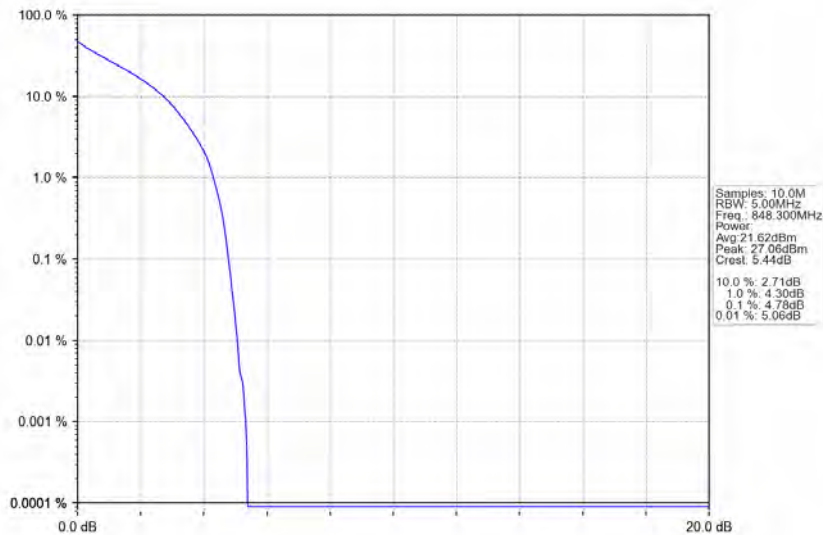
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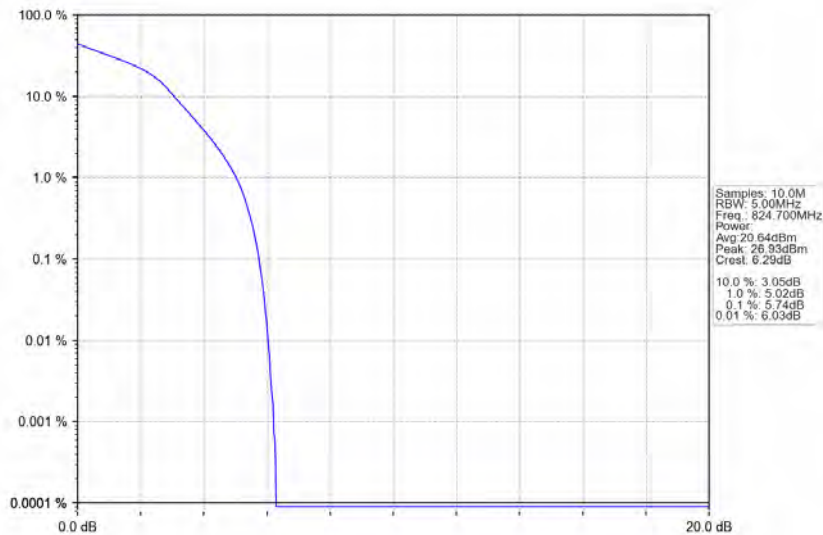
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Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



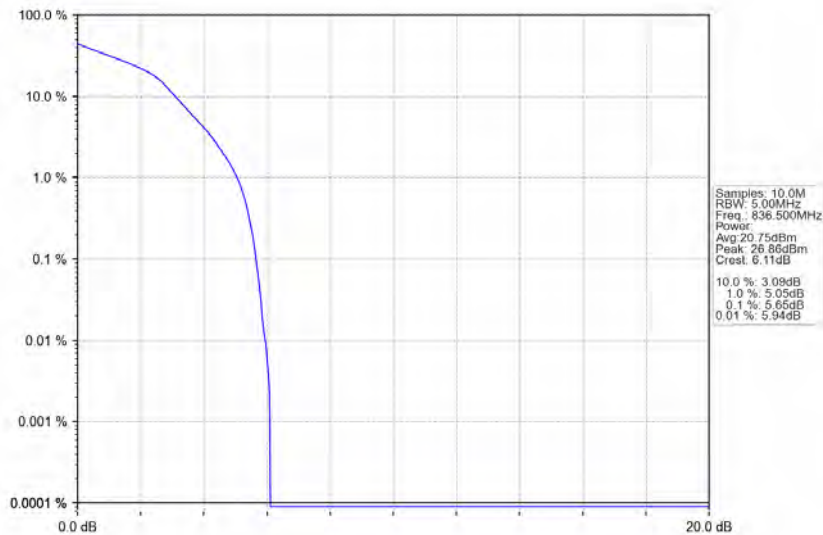
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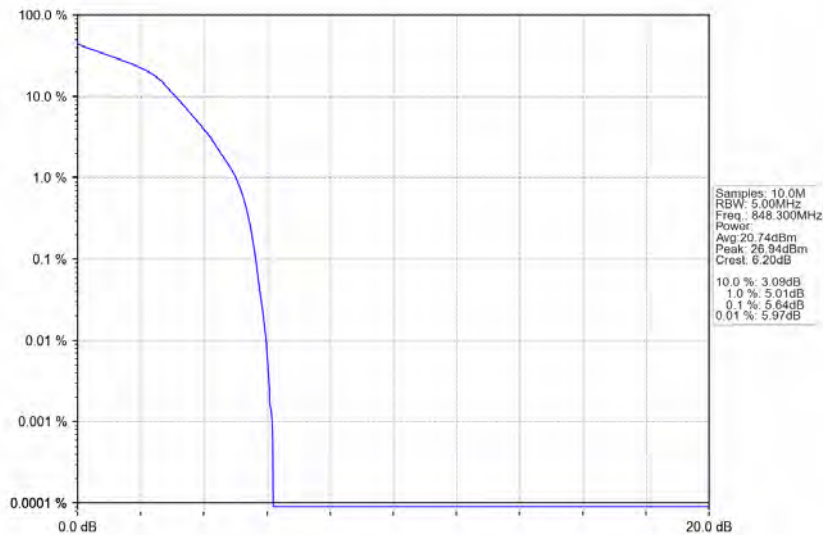
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Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



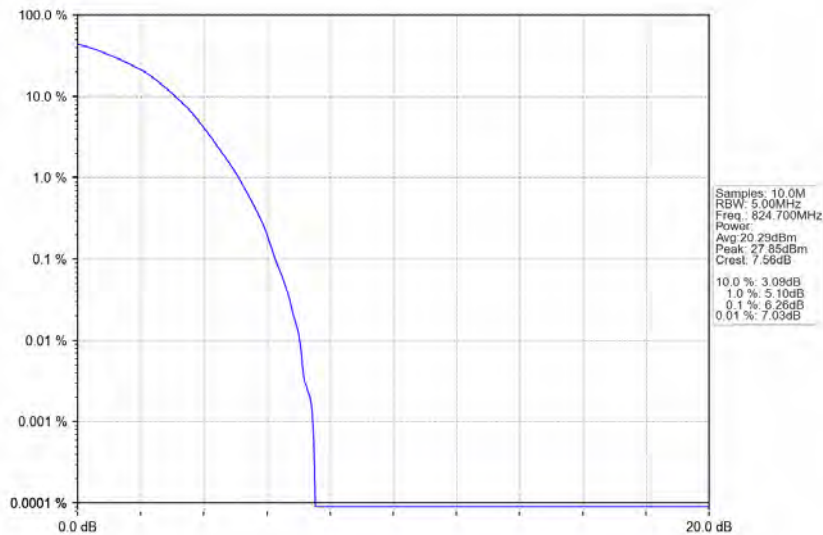
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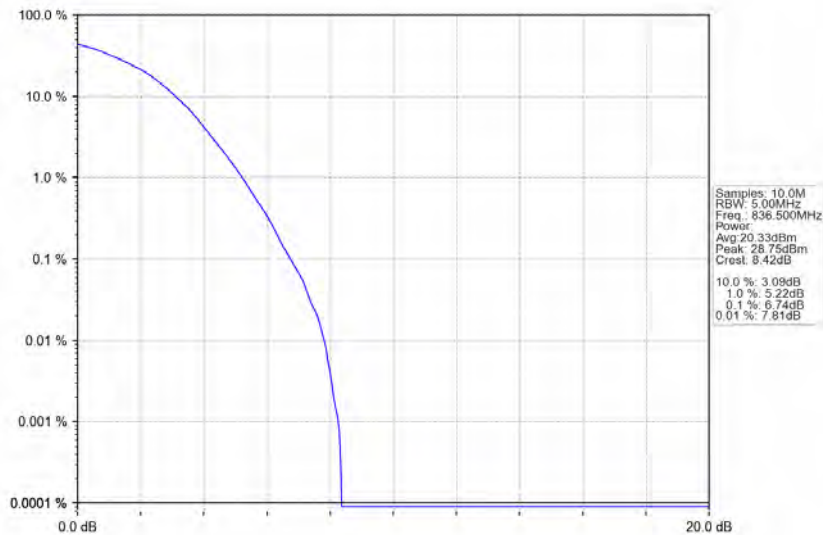
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Band5\_1.4MHz\_64QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



Band5\_1.4MHz\_64QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



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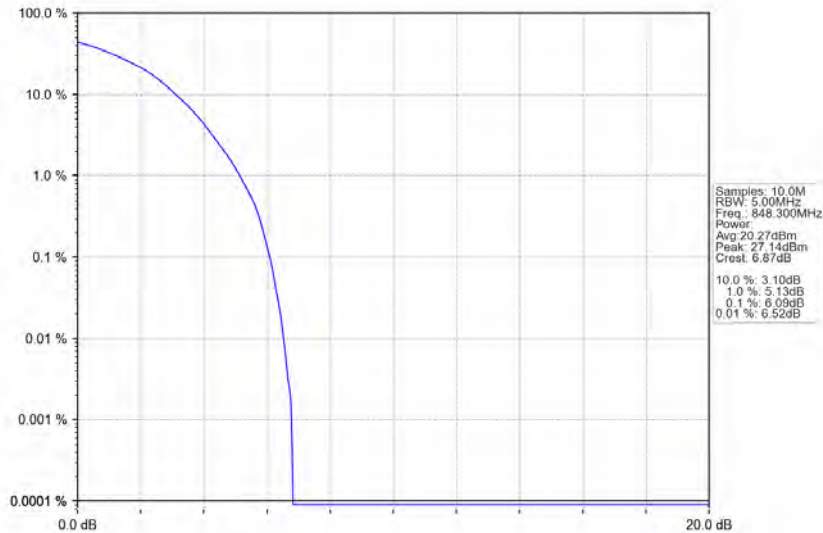
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Band5\_1.4MHz\_64QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTV



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5.2 B5\_3MHz

5.2.1 Test Result

Band: 5 / Bandwidth: 3MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	825.5	15	0	4.98	<=13	Pass
	836.5	15	0	4.86	<=13	Pass
	847.5	15	0	4.94	<=13	Pass
16QAM	825.5	15	0	5.87	<=13	Pass
	836.5	15	0	5.79	<=13	Pass
	847.5	15	0	5.83	<=13	Pass
64QAM	825.5	15	0	6.61	<=13	Pass
	836.5	15	0	6.54	<=13	Pass
	847.5	15	0	6.51	<=13	Pass

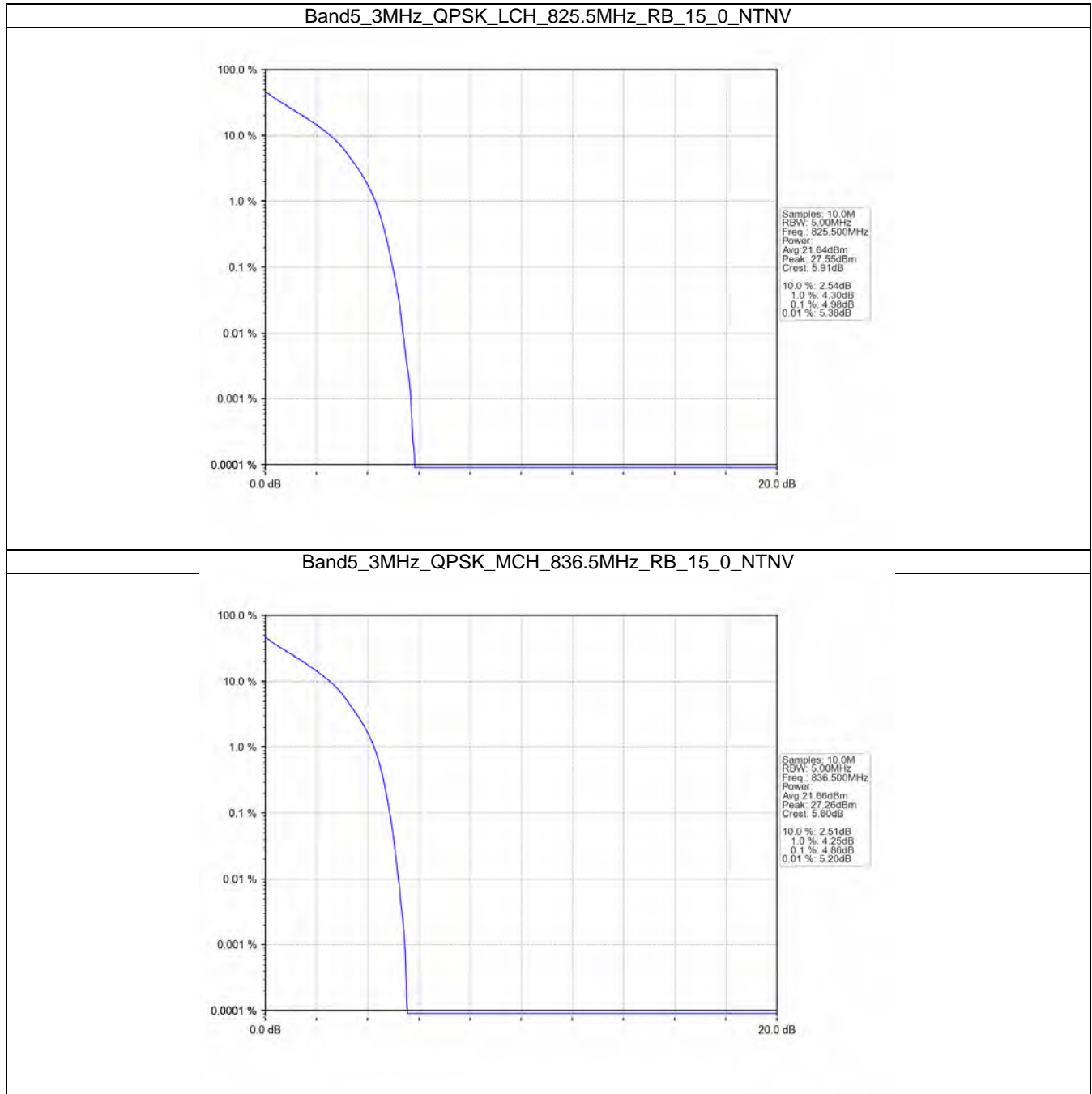


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5.2.2 Test Graph



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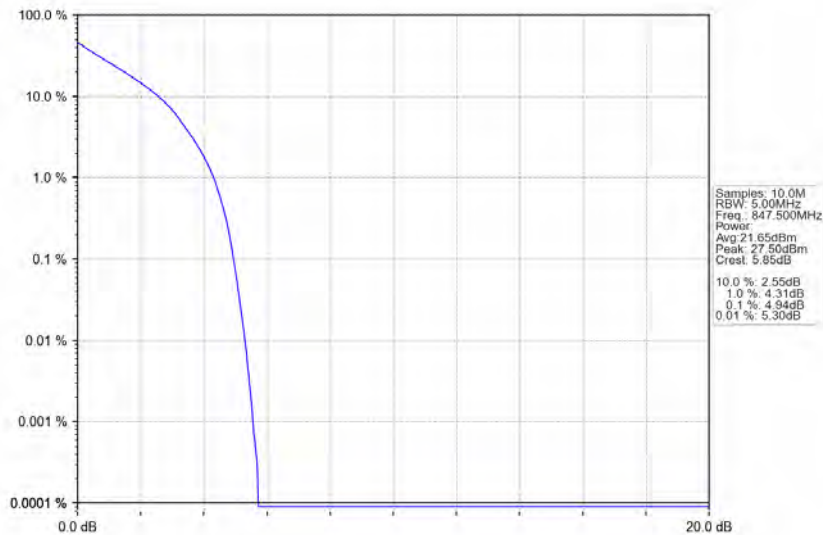
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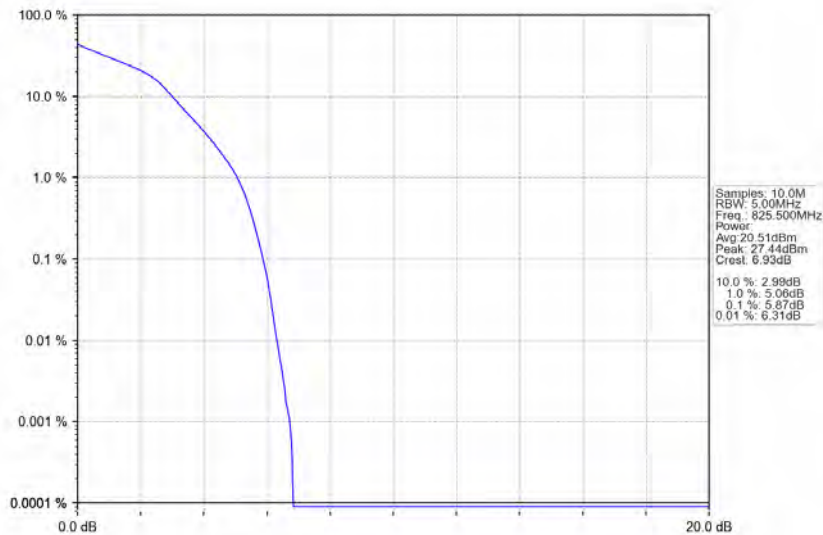
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Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



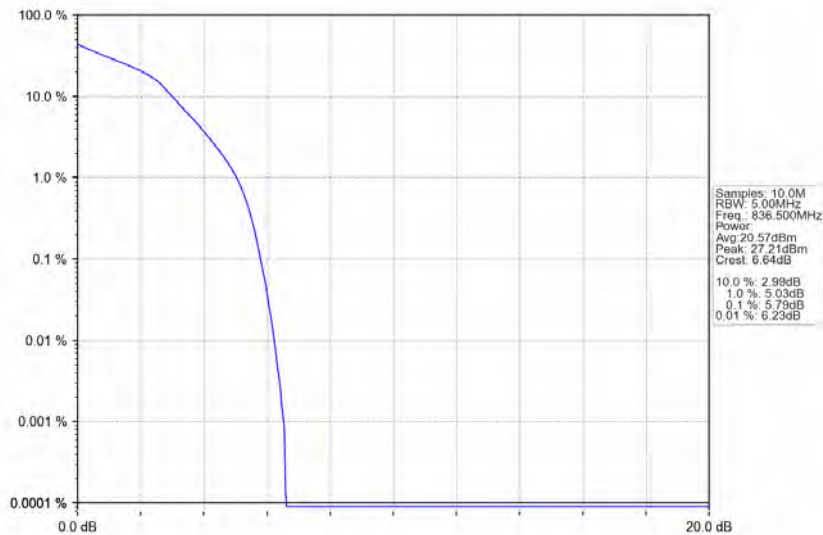
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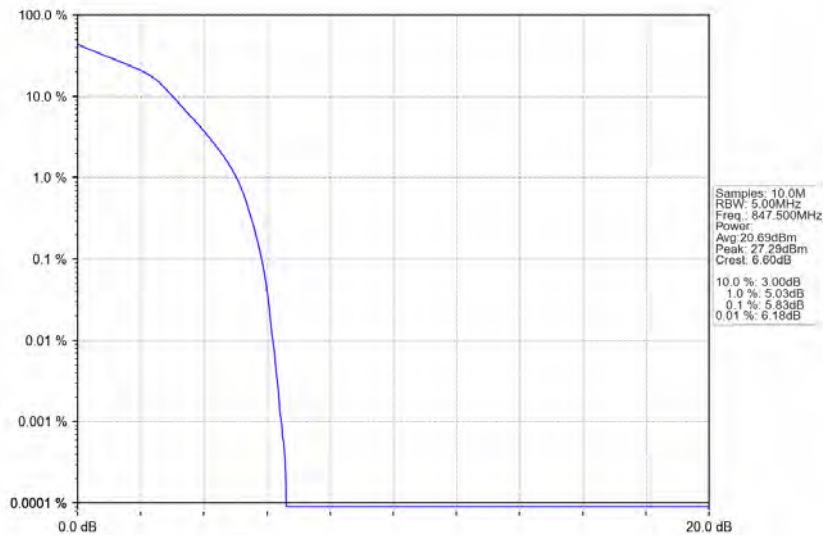
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Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



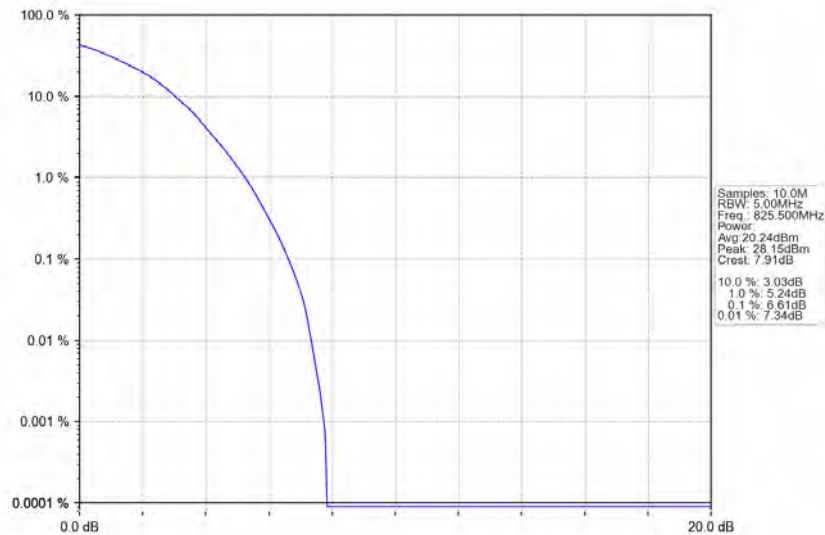
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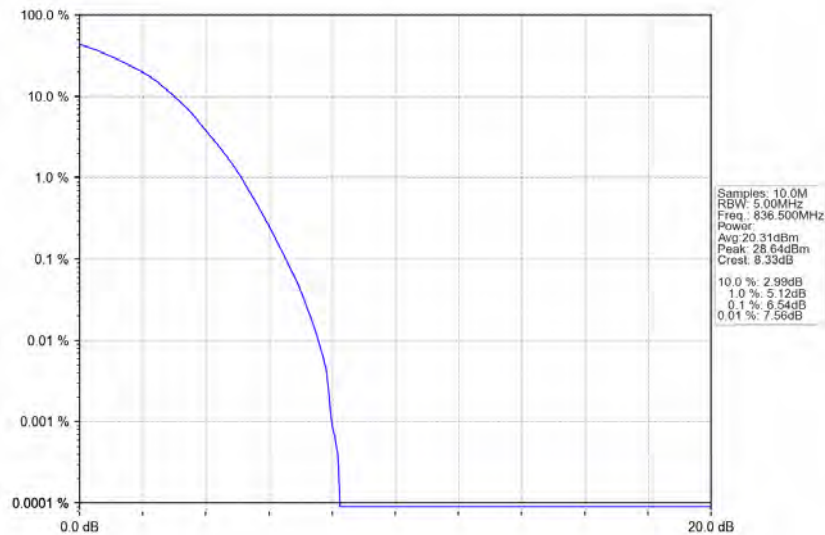
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Band5\_3MHz\_64QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



Band5\_3MHz\_64QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



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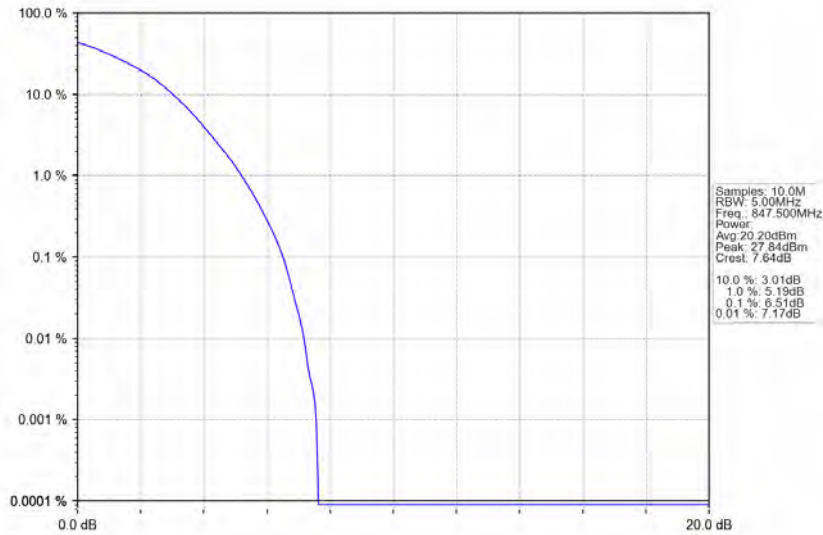
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Band5\_3MHz\_64QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



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5.3 B5\_5MHz

5.3.1 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	4.86	<=13	Pass
	836.5	25	0	4.84	<=13	Pass
	846.5	25	0	4.87	<=13	Pass
16QAM	826.5	25	0	5.73	<=13	Pass
	836.5	25	0	5.70	<=13	Pass
	846.5	25	0	5.77	<=13	Pass
64QAM	826.5	25	0	6.69	<=13	Pass
	836.5	25	0	6.60	<=13	Pass
	846.5	25	0	6.54	<=13	Pass



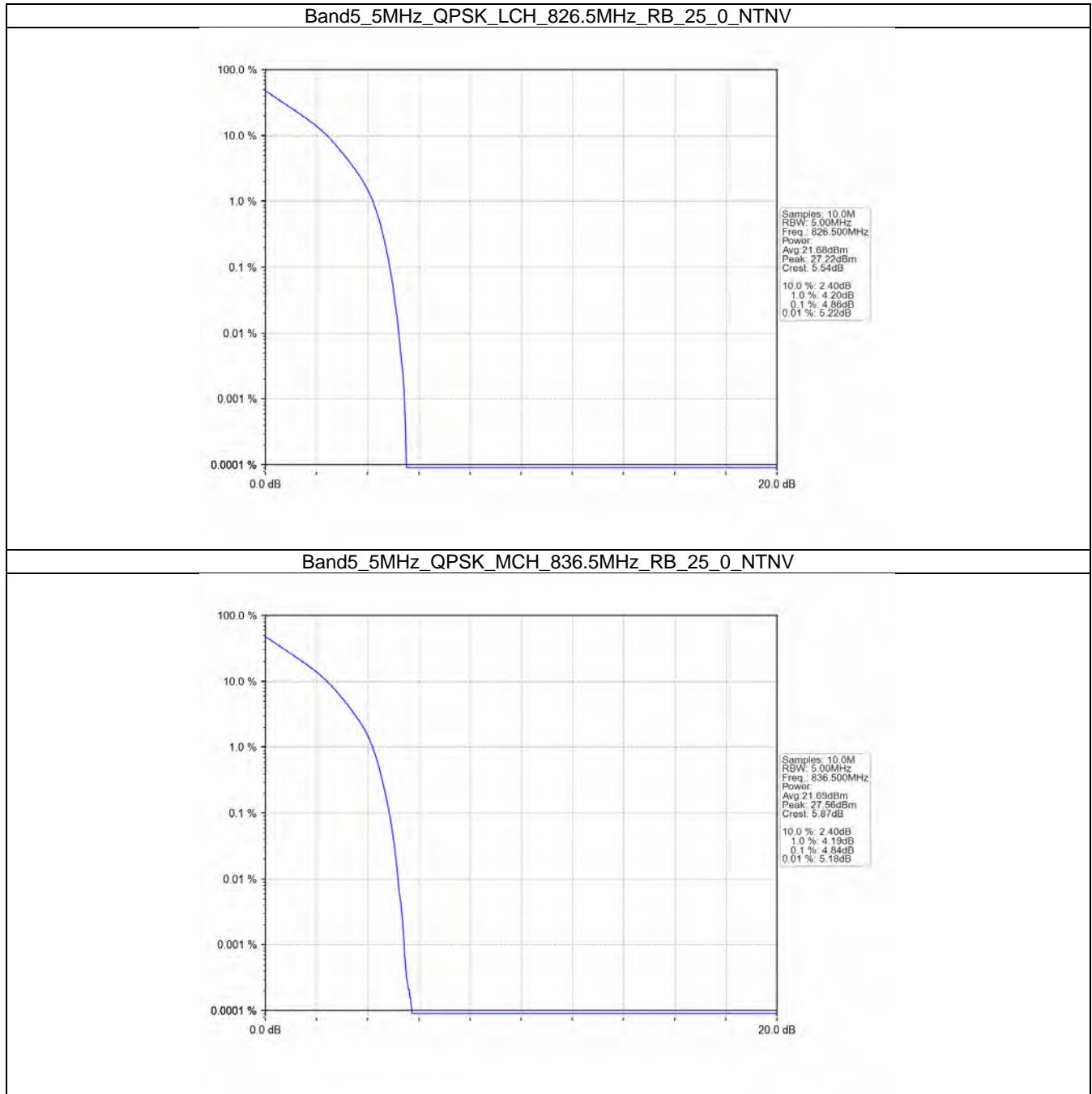
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5.3.2 Test Graph



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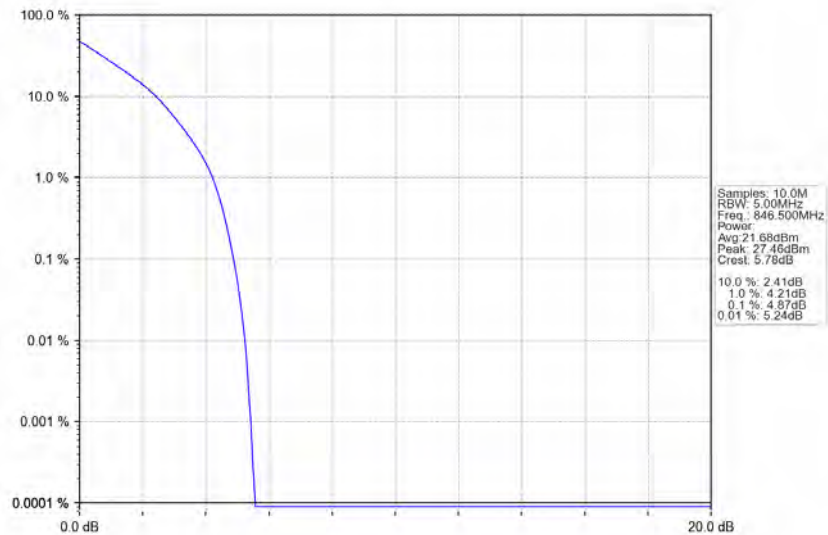
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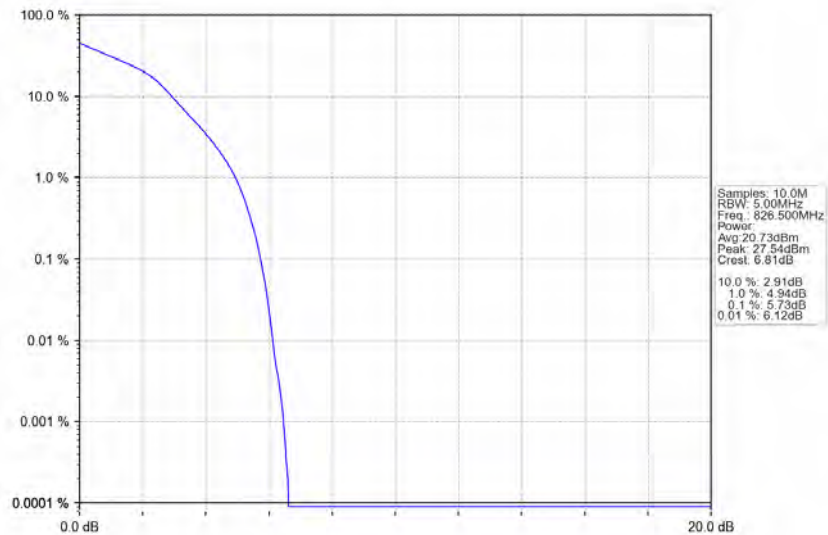
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Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



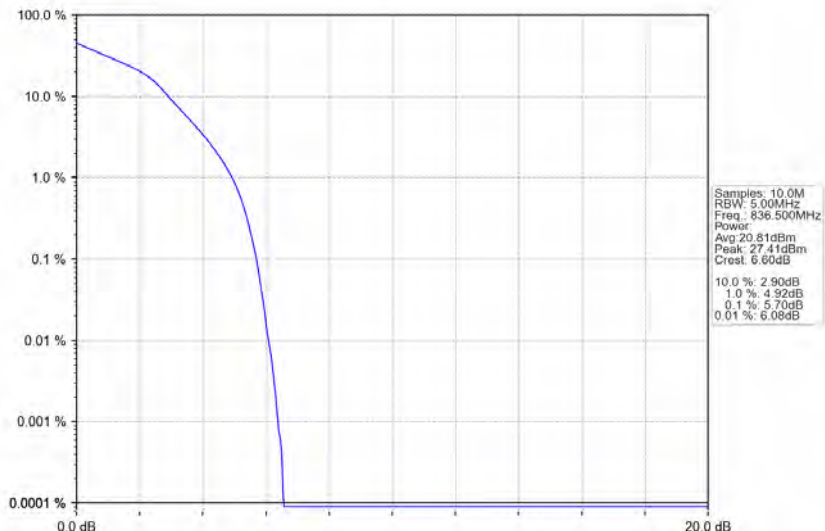
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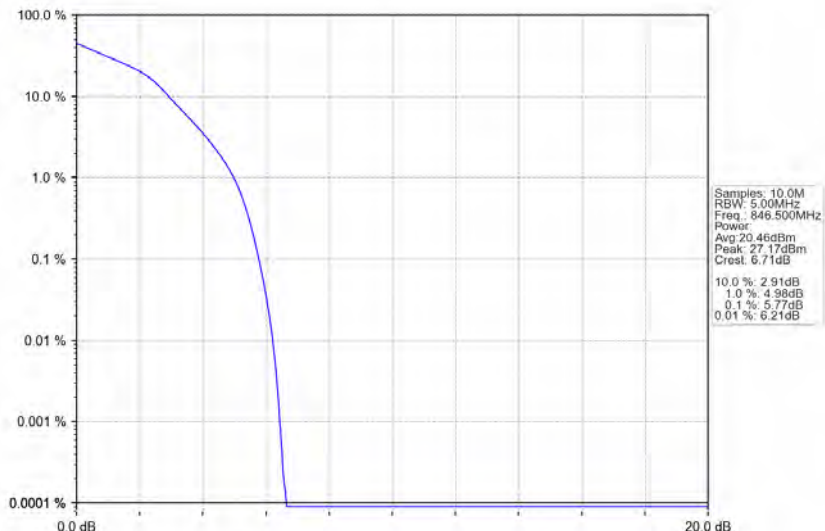
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Band5\_5MHz\_16QAM\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



Band5\_5MHz\_16QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV

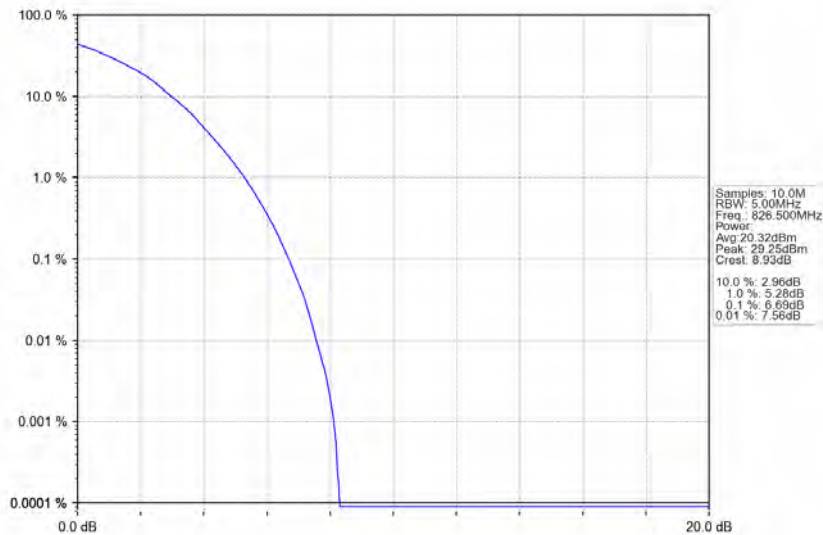


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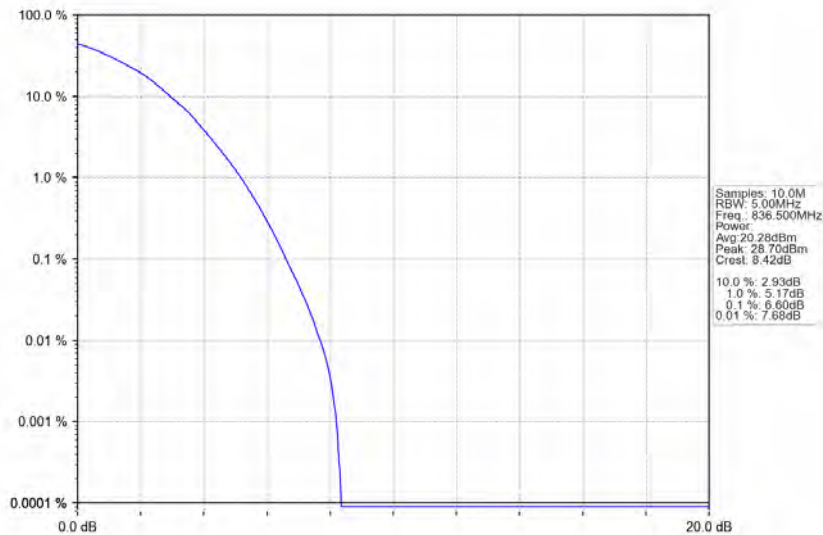
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Band5\_5MHz\_64QAM\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



Band5\_5MHz\_64QAM\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



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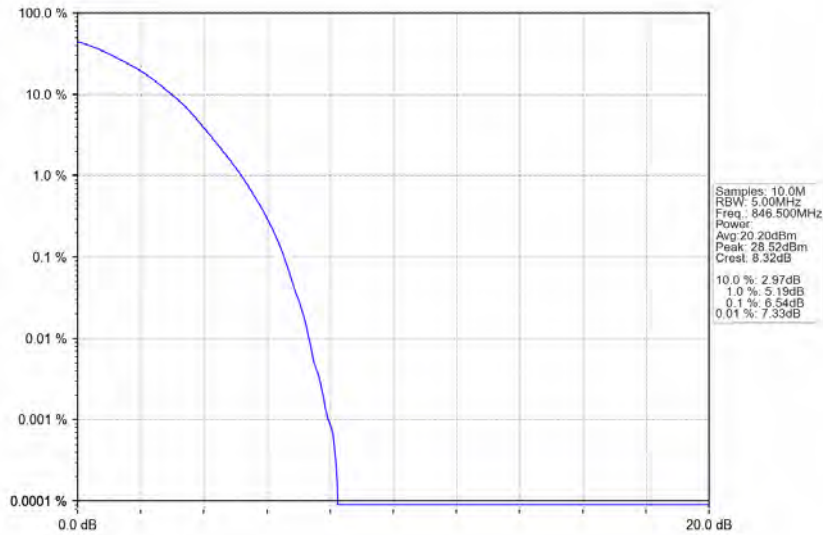
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Band5\_5MHz\_64QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



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5.4 B5\_10MHz

5.4.1 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	5.38	<=13	Pass
	836.5	50	0	5.43	<=13	Pass
	844	50	0	5.36	<=13	Pass
16QAM	829	50	0	6.54	<=13	Pass
	836.5	50	0	6.44	<=13	Pass
	844	50	0	6.56	<=13	Pass
64QAM	829	50	0	6.77	<=13	Pass
	836.5	50	0	6.68	<=13	Pass
	844	50	0	6.74	<=13	Pass



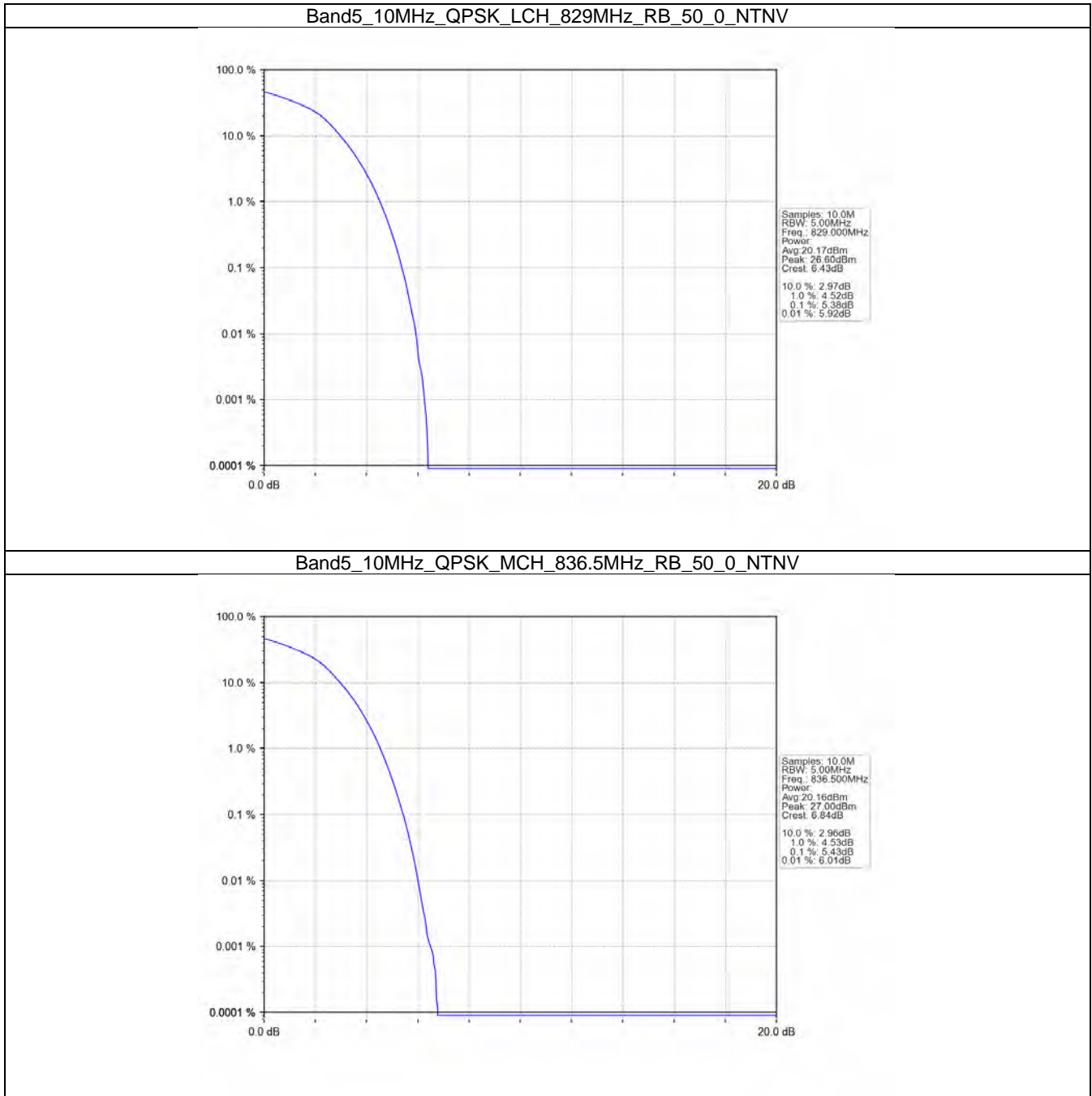
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5.4.2 Test Graph



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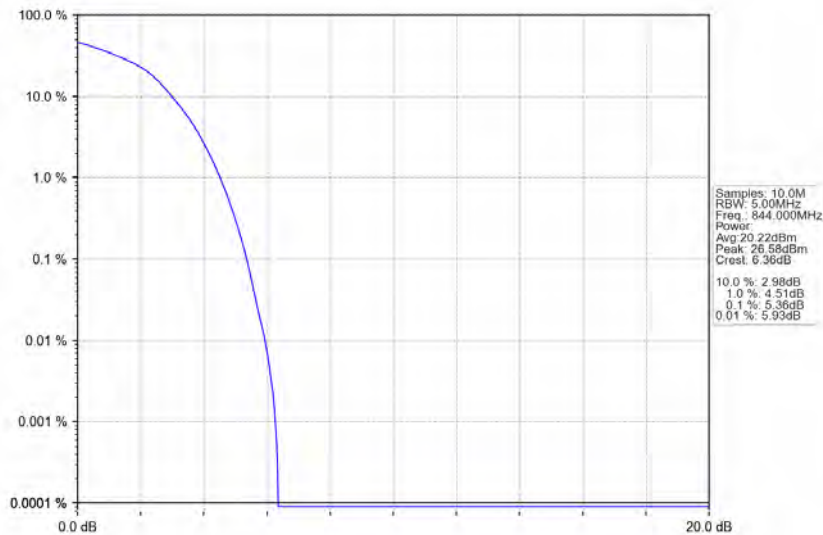
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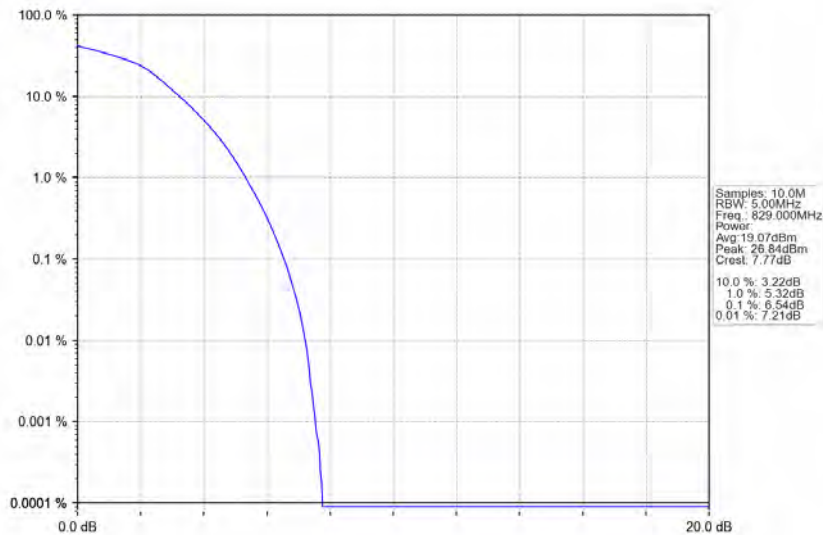
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Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



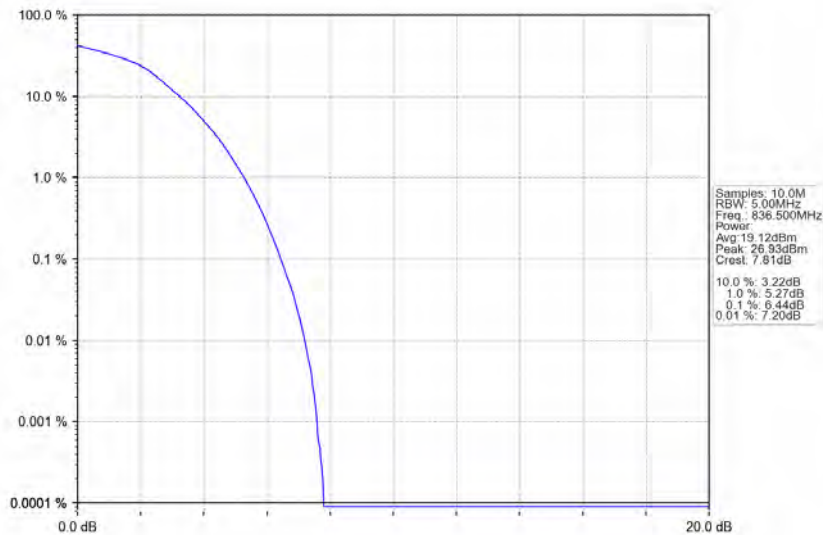
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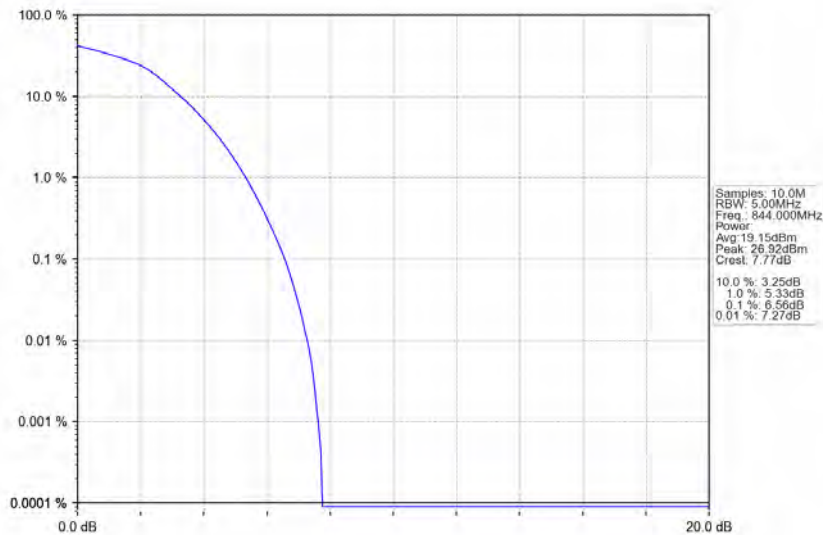
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Band5\_10MHz\_16QAM\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_16QAM\_HCH\_844MHz\_RB\_50\_0\_NTNV



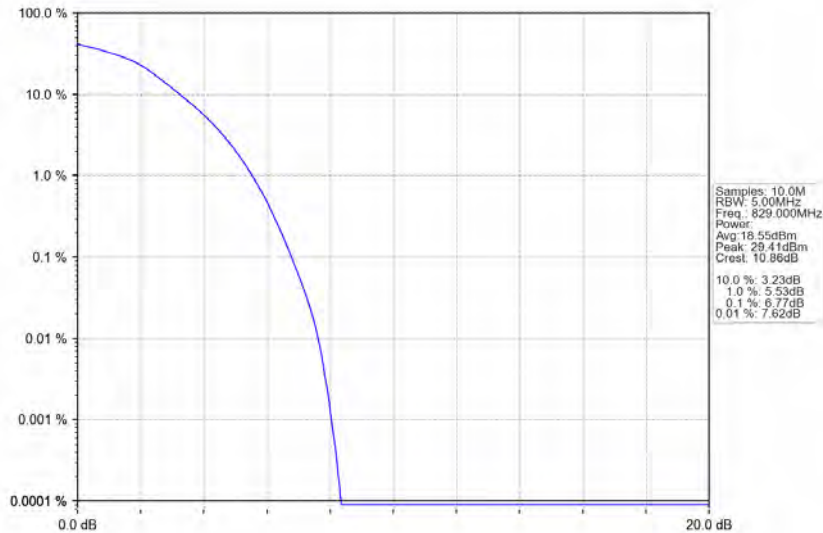
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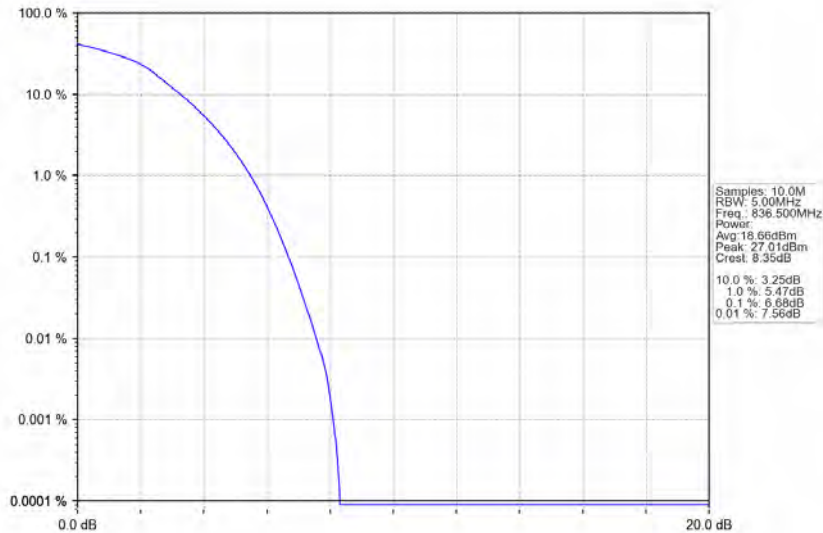
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Band5\_10MHz\_64QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_64QAM\_MCH\_836.5MHz\_RB\_50\_0\_NTNV



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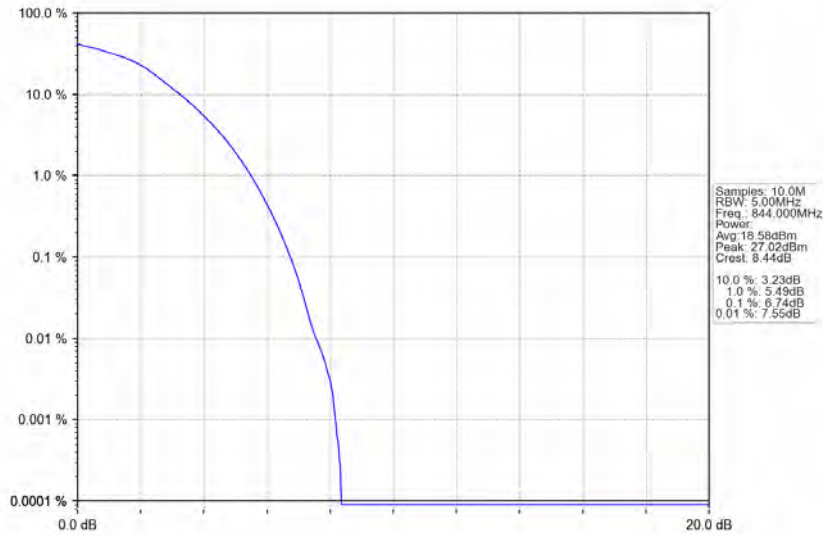
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Band5\_10MHz\_64QAM\_HCH\_844MHz\_RB\_50\_0\_NTNV



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## 6. Spurious Emission

### 6.1 B5\_1.4MHz

#### 6.1.1 Test Result

Band: 5 / Bandwidth: 1.4MHz / NTV							
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict	
		Size	Offset	Result	Limit		
QPSK	824.7	1	0	Refer To Test Graph		Pass	
		6	0	Refer To Test Graph		Pass	
	836.5	1	0	Refer To Test Graph		Pass	
		848.3	1	0	Refer To Test Graph		Pass
				5	Refer To Test Graph		Pass
			6	0	Refer To Test Graph		Pass
16QAM	824.7	1	0	Refer To Test Graph		Pass	
		6	0	Refer To Test Graph		Pass	
	836.5	1	0	Refer To Test Graph		Pass	
		848.3	1	0	Refer To Test Graph		Pass
				5	Refer To Test Graph		Pass
			6	0	Refer To Test Graph		Pass
64QAM	824.7	1	0	Refer To Test Graph		Pass	
		6	0	Refer To Test Graph		Pass	
	836.5	1	0	Refer To Test Graph		Pass	
		848.3	1	0	Refer To Test Graph		Pass
				5	Refer To Test Graph		Pass
			6	0	Refer To Test Graph		Pass



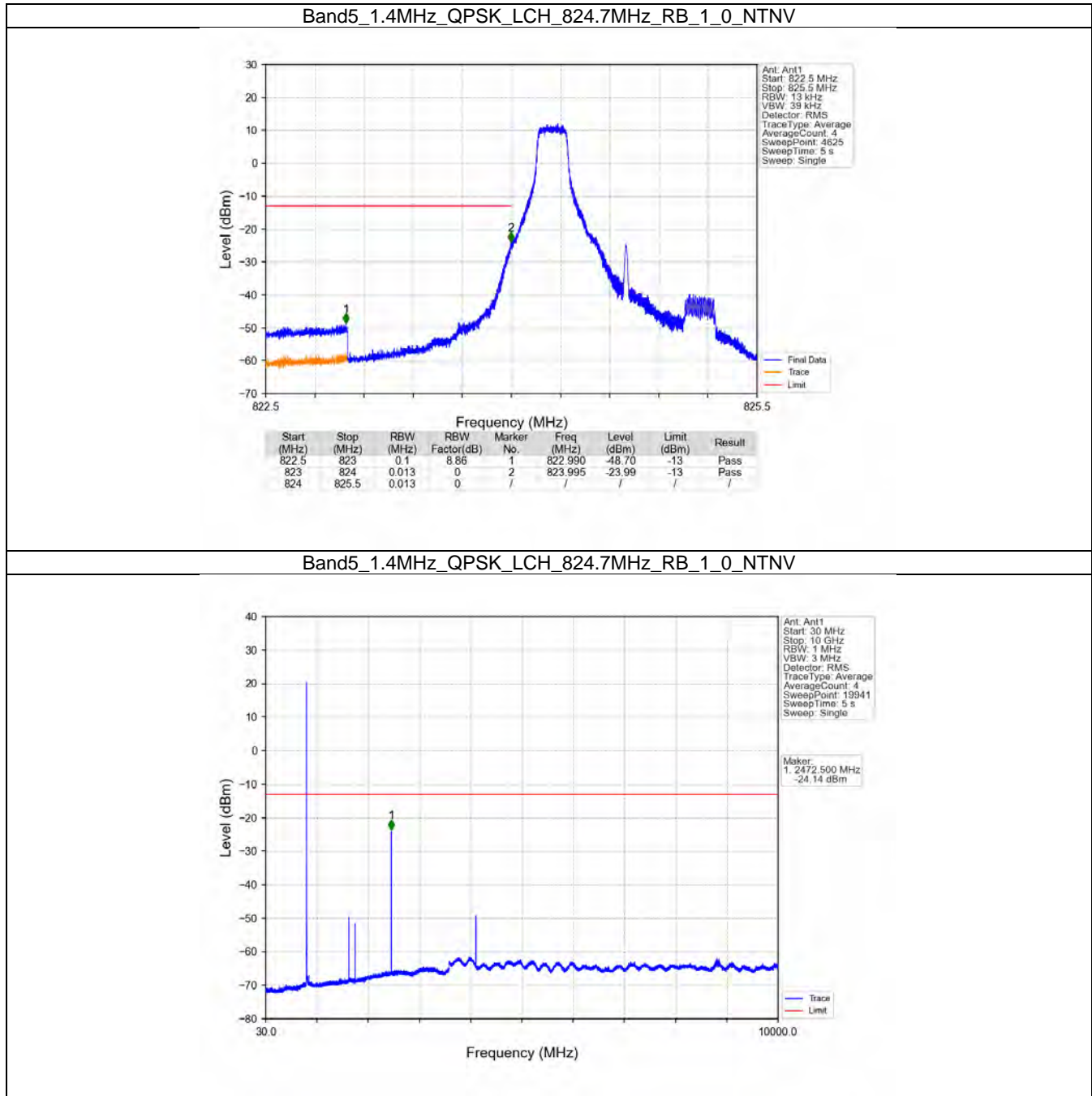
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6.1.2 Test Graph



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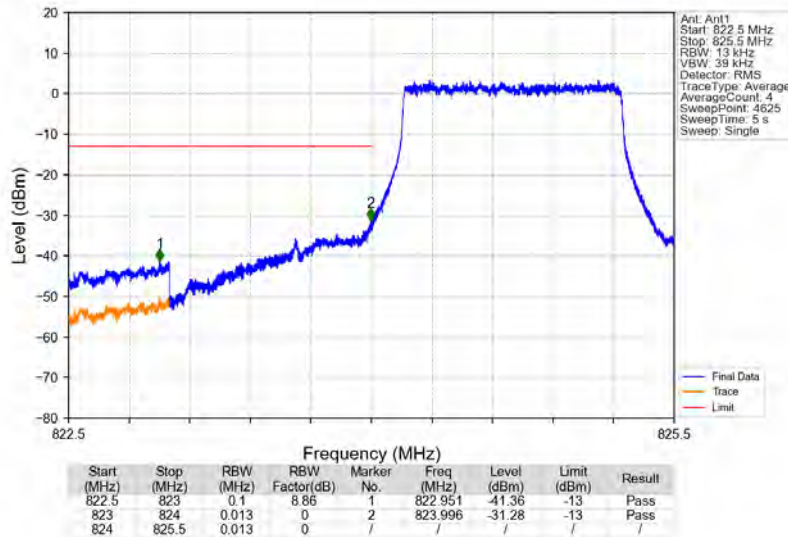
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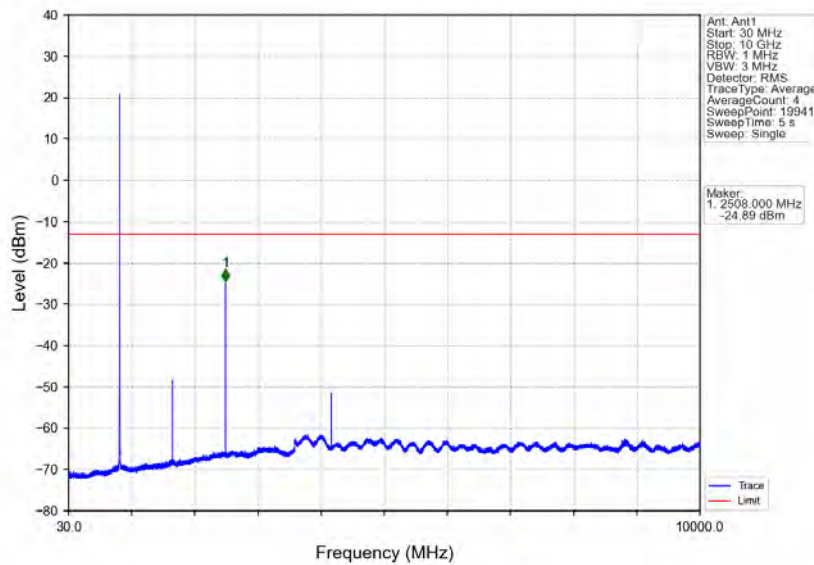
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Band5\_1.4MHz\_QPSK\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



Band5\_1.4MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



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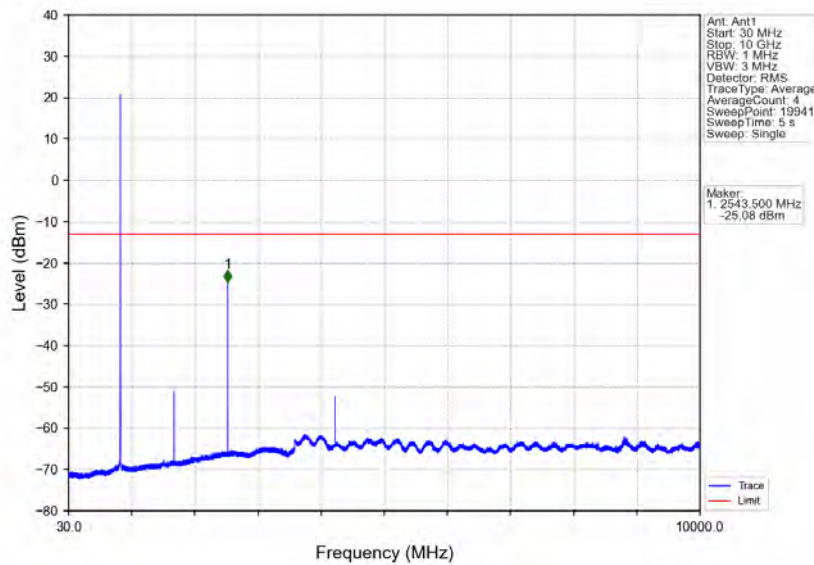
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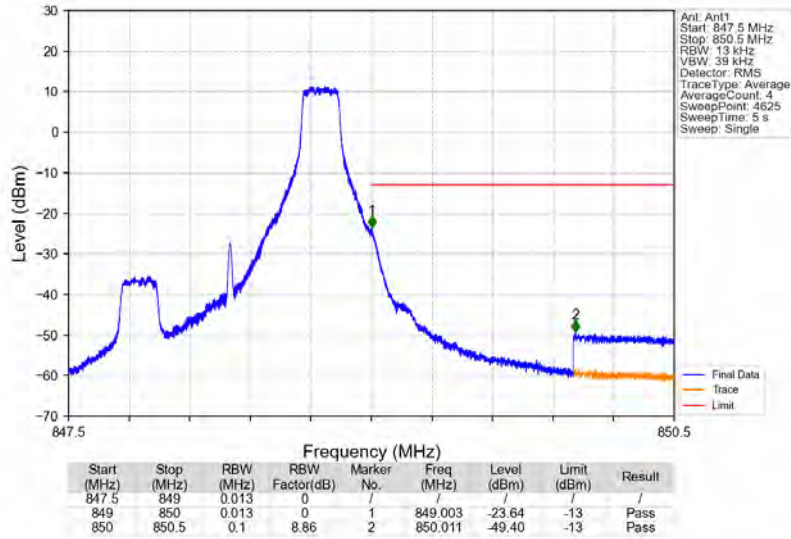
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Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_1\_0\_NTNV



Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_1\_5\_NTNV



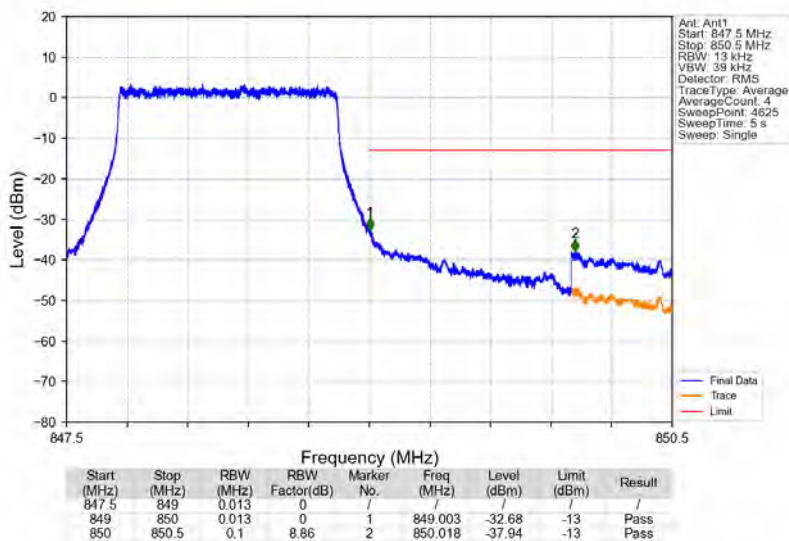
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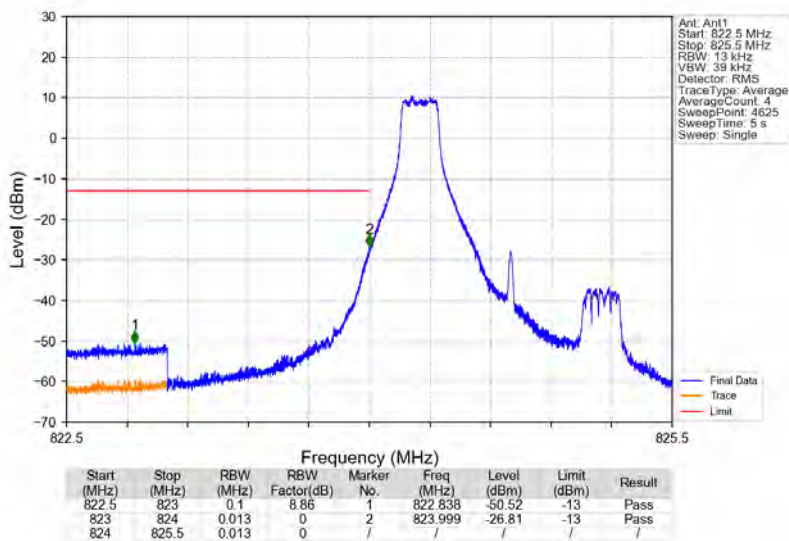
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Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV



Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_1\_0\_NTNV



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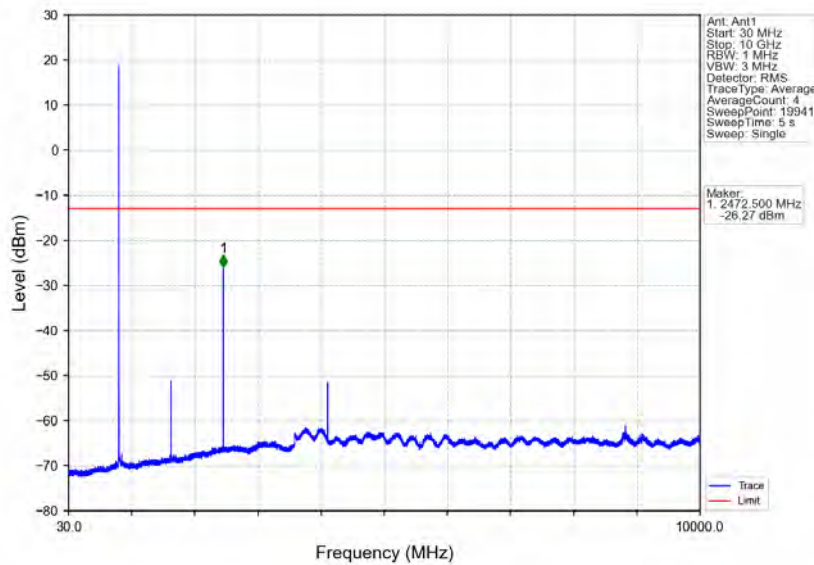
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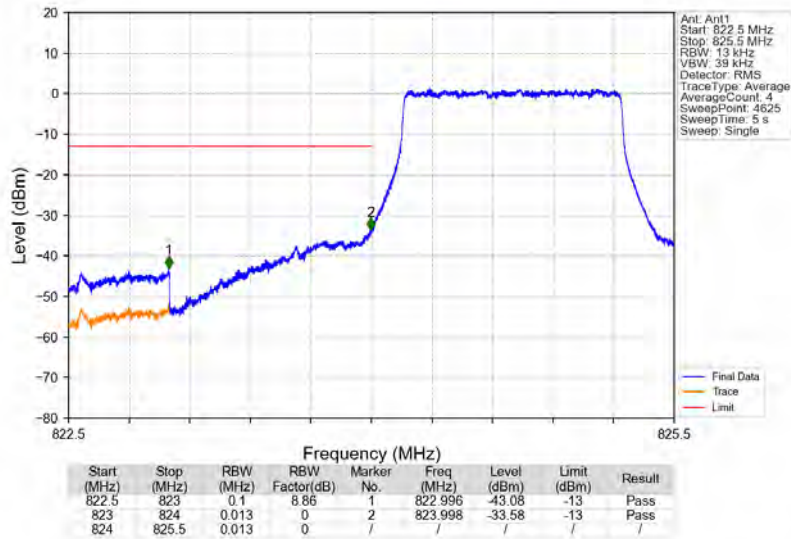
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Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_1\_0\_NTNV



Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV



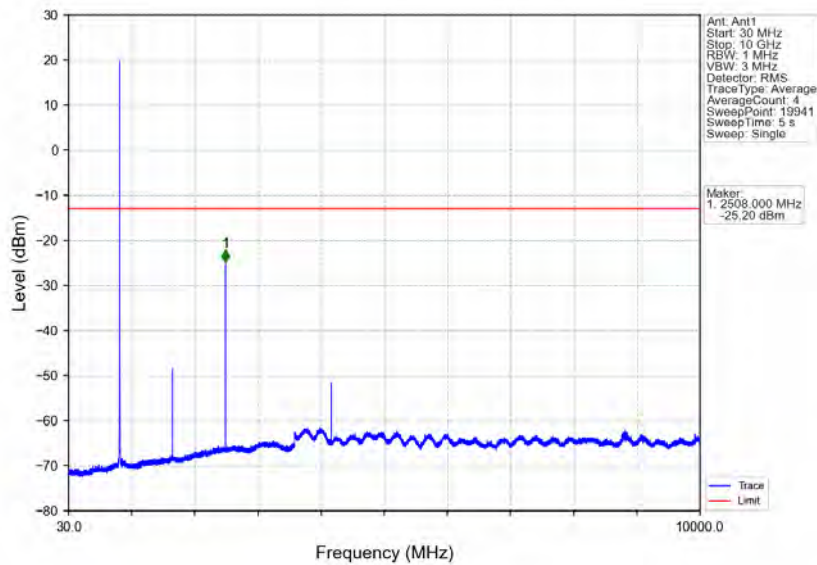
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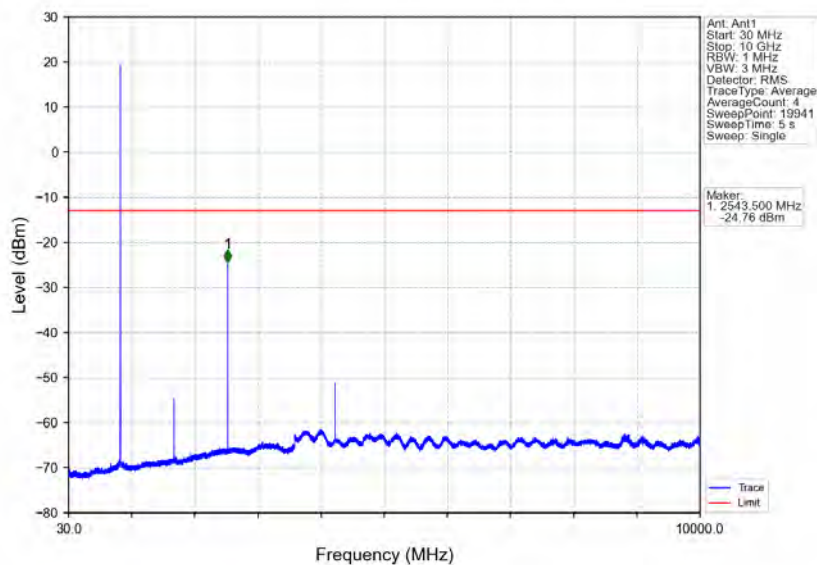
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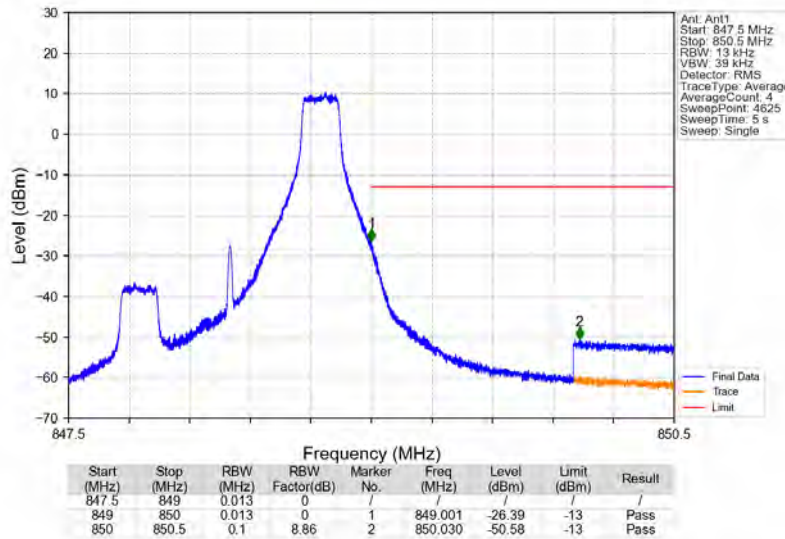


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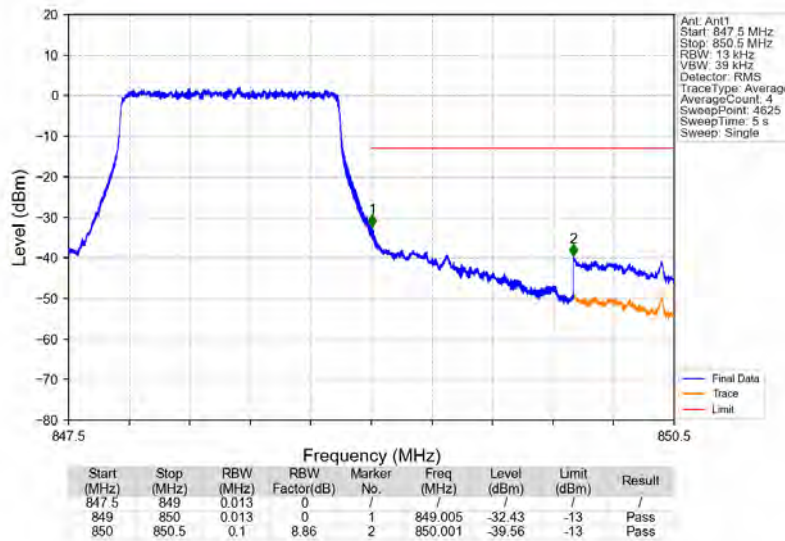
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Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_1\_5\_NTV



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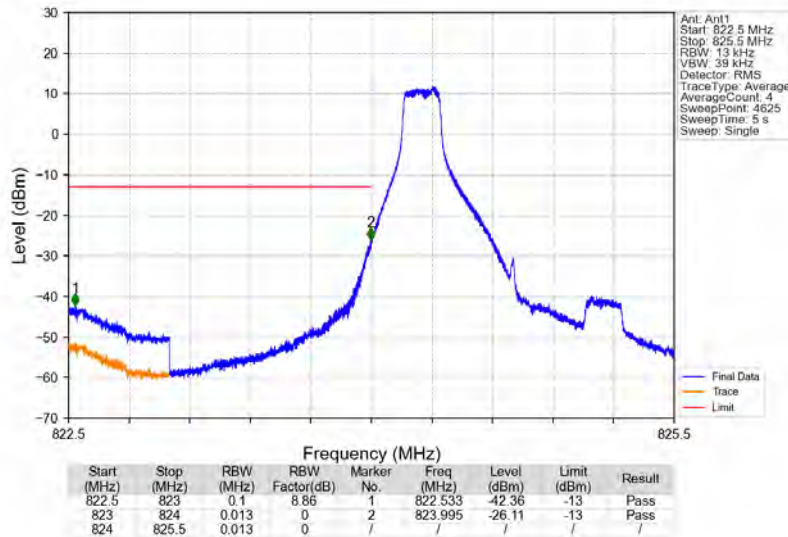
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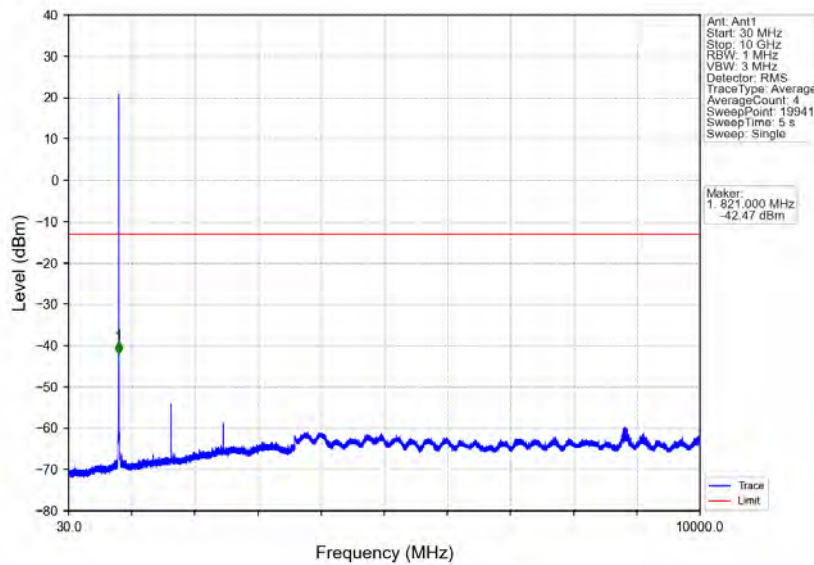
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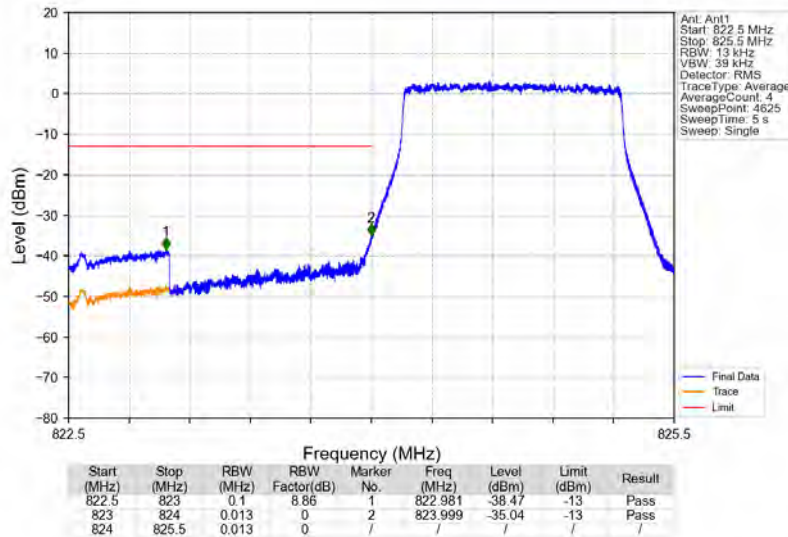
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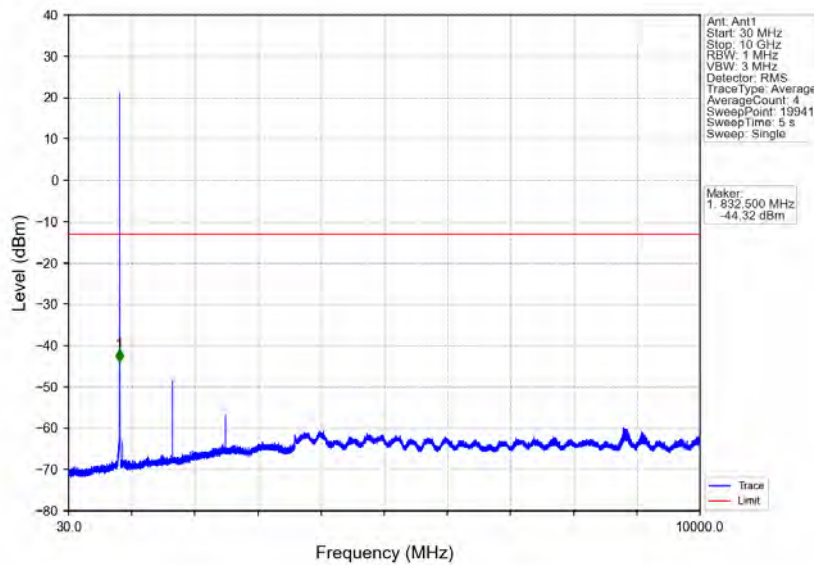


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 EMC Laboratory

Band5\_1.4MHz\_64QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTV



Band5\_1.4MHz\_64QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTV



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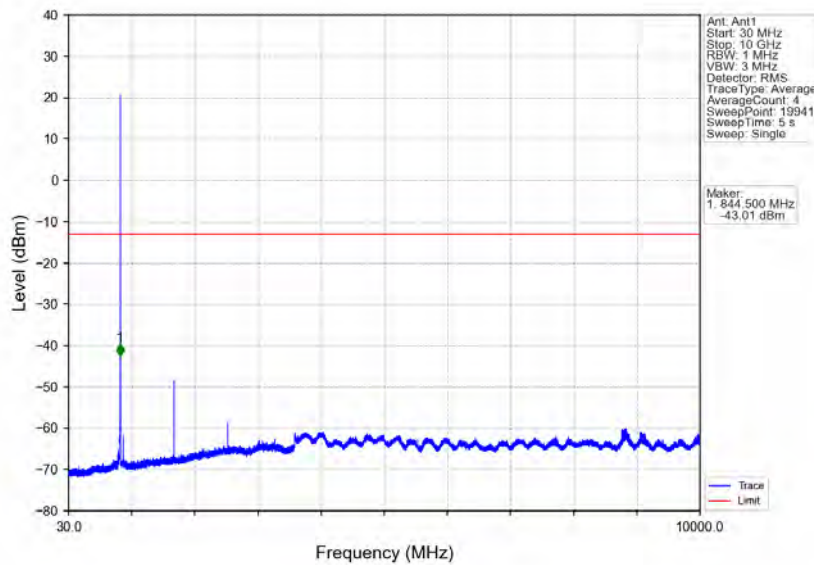
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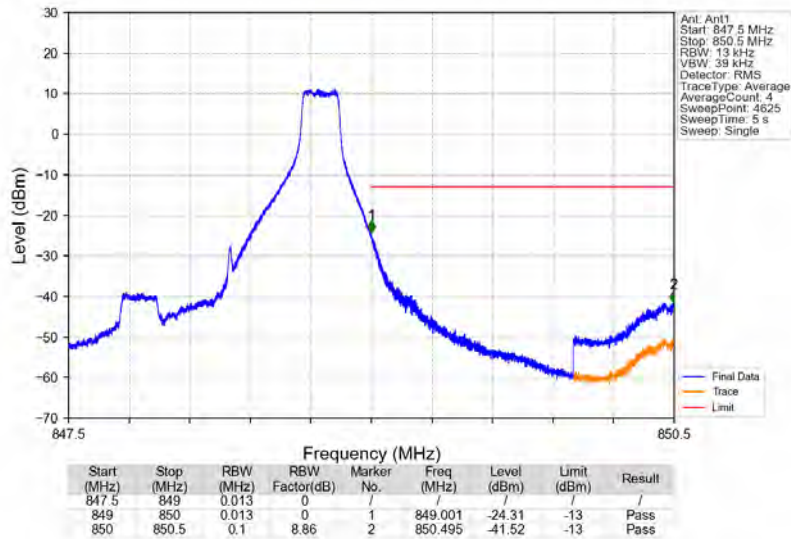
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Band5\_1.4MHz\_64QAM\_HCH\_848.3MHz\_RB\_1\_0\_NTV



Band5\_1.4MHz\_64QAM\_HCH\_848.3MHz\_RB\_1\_5\_NTV



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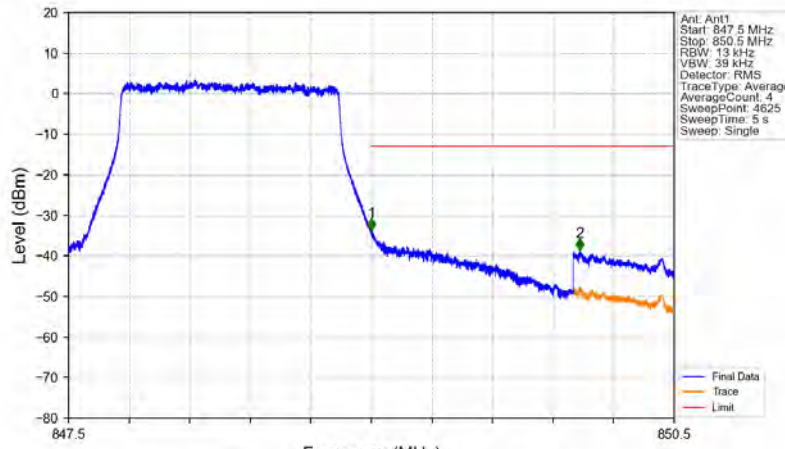
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Band5\_1.4MHz\_64QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
847.5	849	0.013	0	/	/	/	/	/
849	850	0.013	0	1	849.001	-33.78	-13	Pass
850	850.5	0.1	8.86	2	850.032	-38.79	-13	Pass



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6.2 B5\_3MHz

6.2.1 Test Result

Band: 5 / Bandwidth: 3MHz / NTNV						
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict
		Size	Offset	Result	Limit	
QPSK	825.5	1	0	Refer To Test Graph		Pass
		15	0	Refer To Test Graph		Pass
	836.5	1	0	Refer To Test Graph		Pass
		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

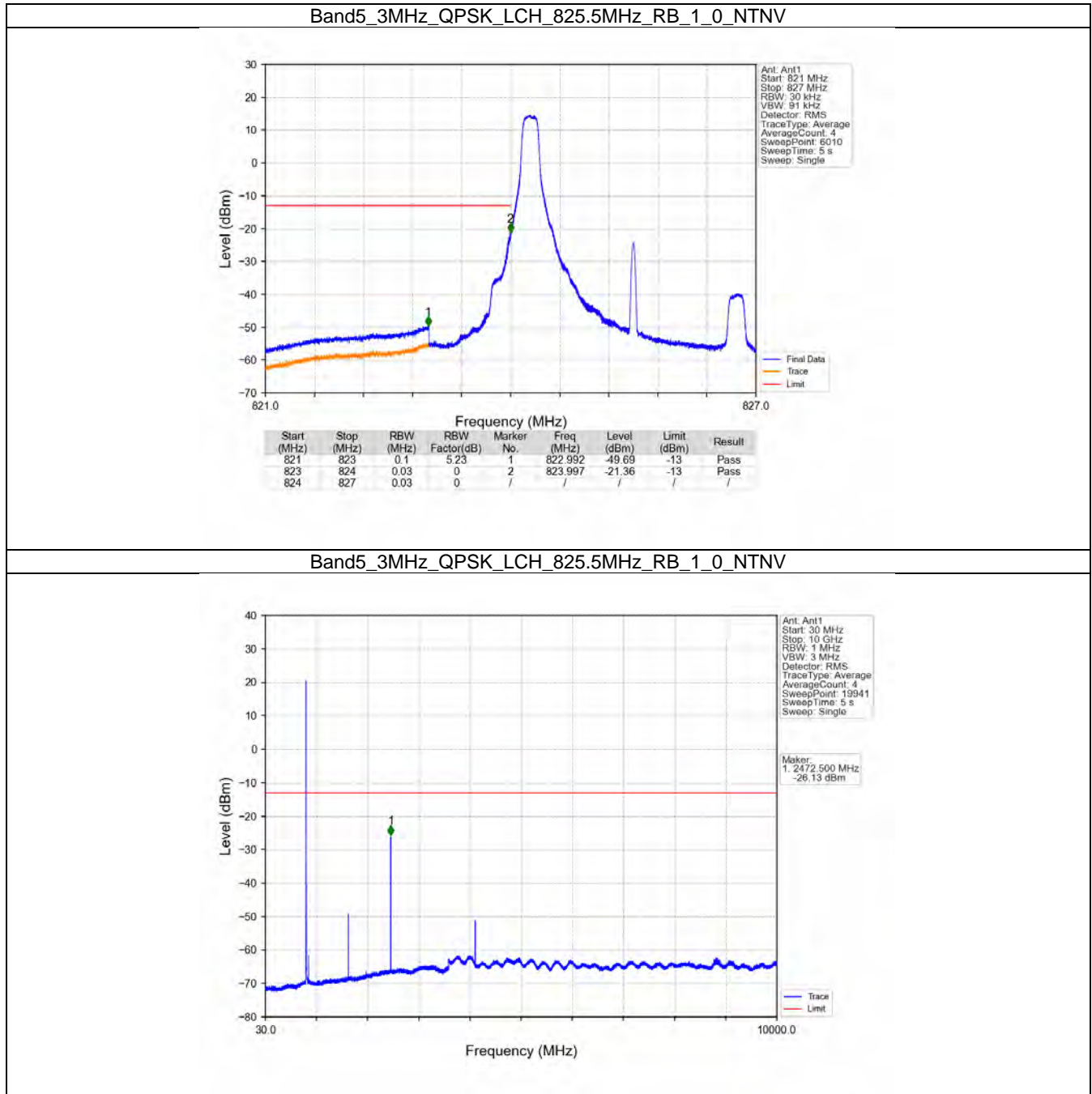


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6.2.2 Test Graph



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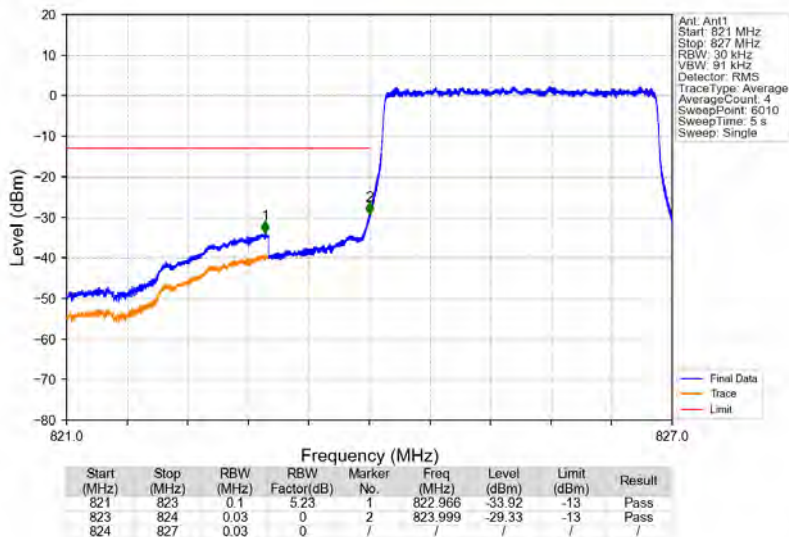
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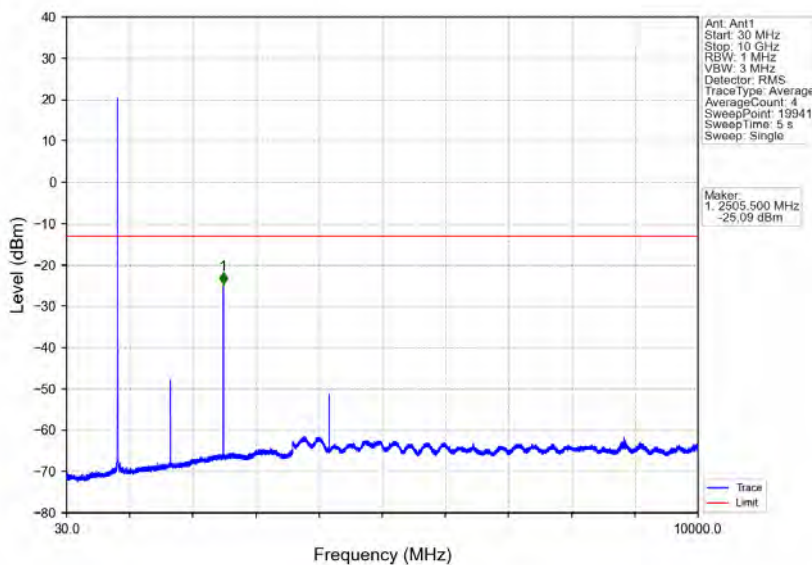
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Band5\_3MHz\_QPSK\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



Band5\_3MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



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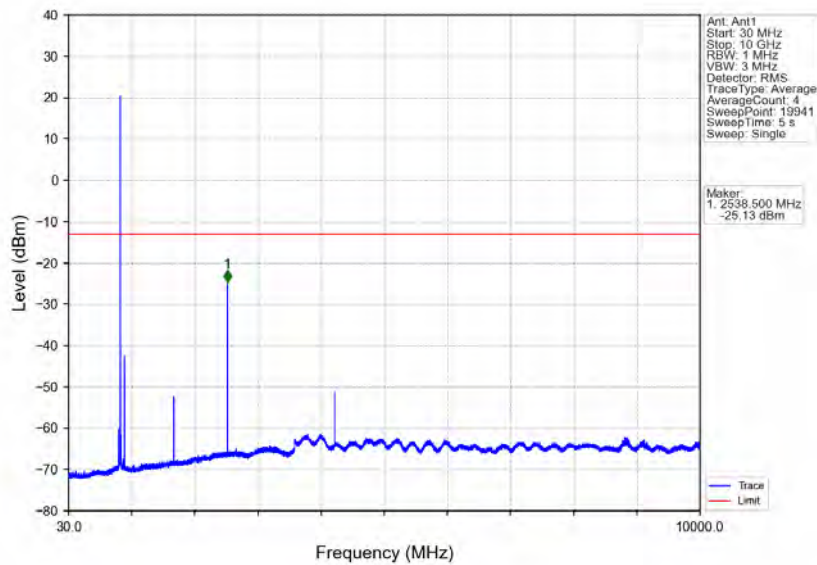
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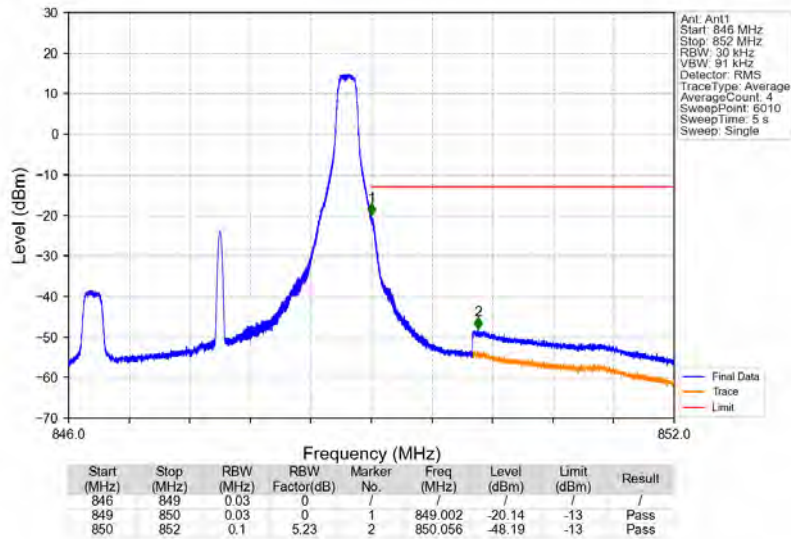
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Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_1\_14\_NTNV



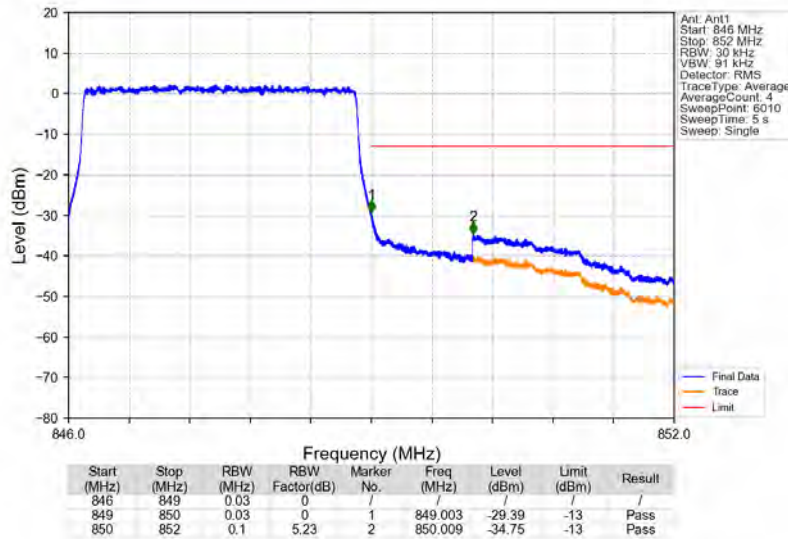
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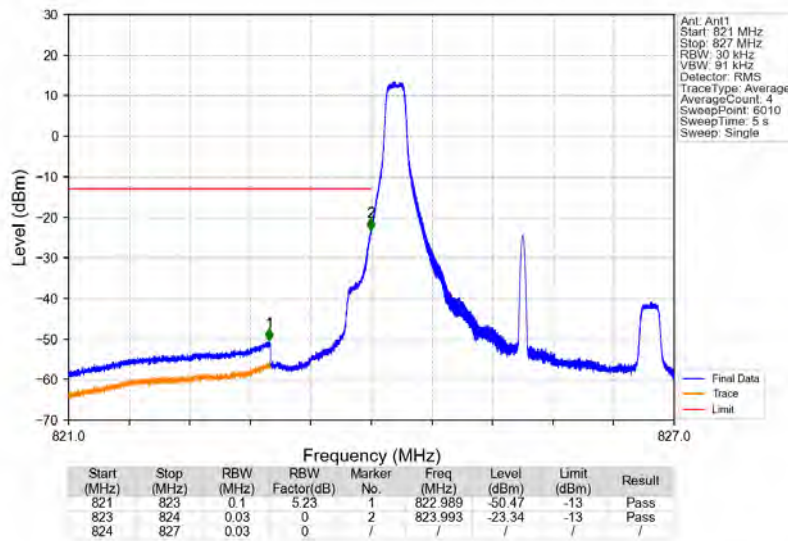
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Band5\_3MHz\_QPSK\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_1\_0\_NTNV



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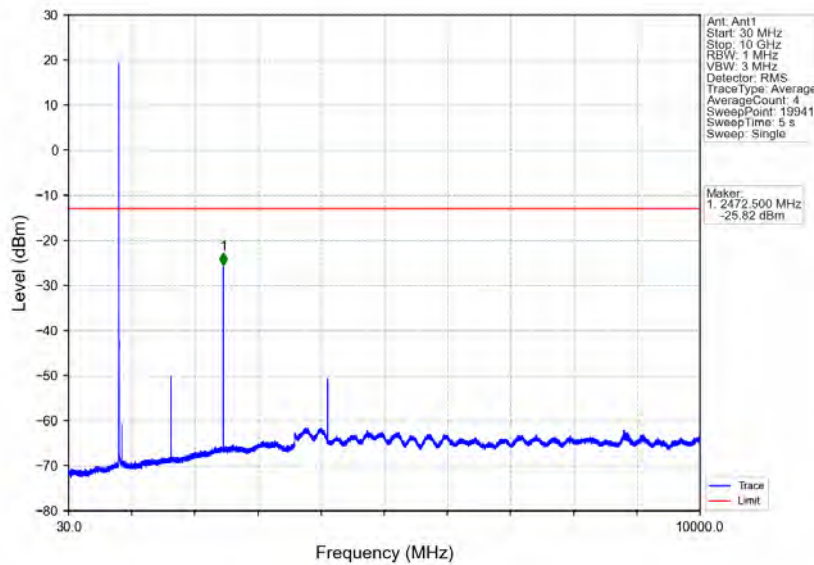
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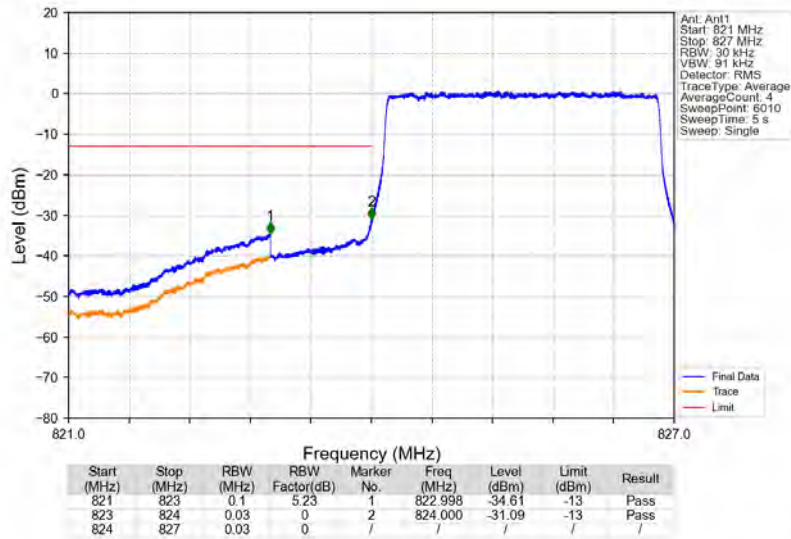
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Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_1\_0\_NTNV



Band5\_3MHz\_16QAM\_LCH\_825.5MHz\_RB\_15\_0\_NTNV



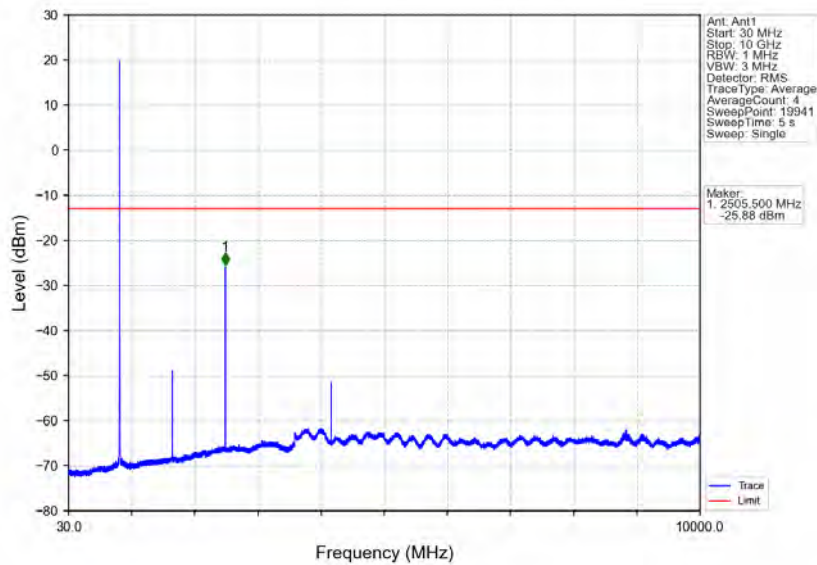
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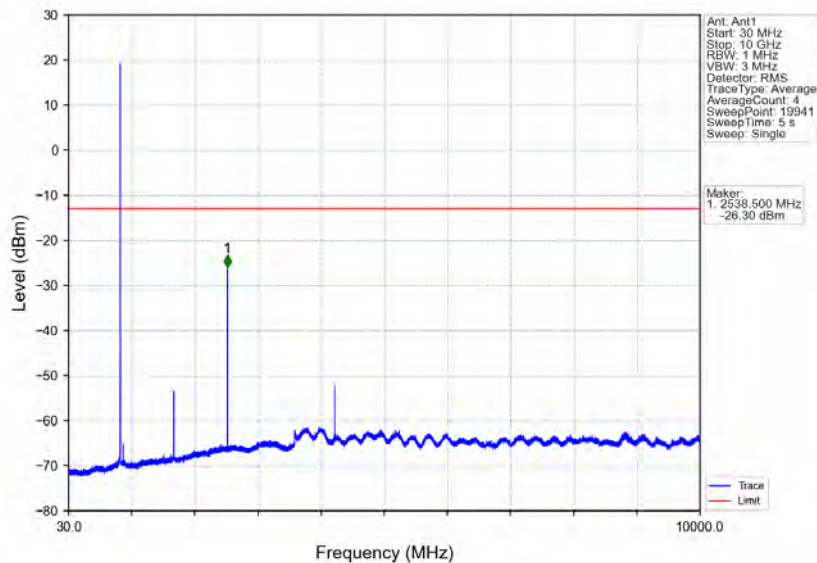
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Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_1\_0\_NTNV



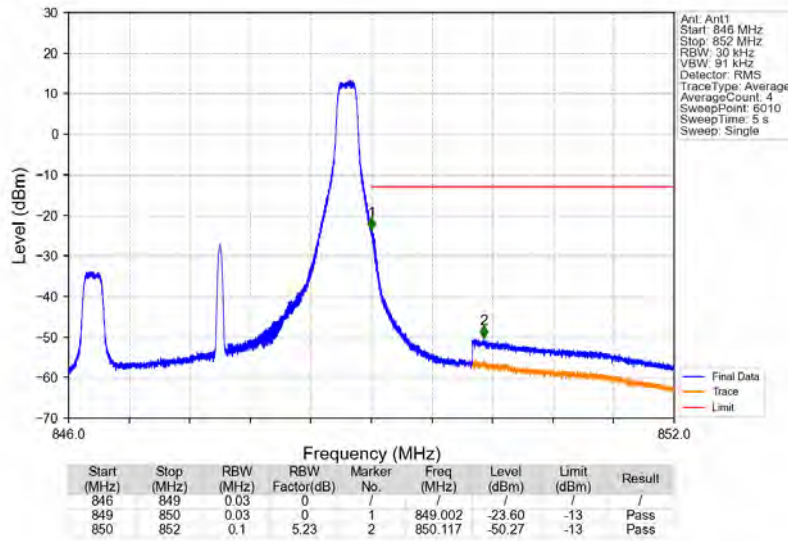
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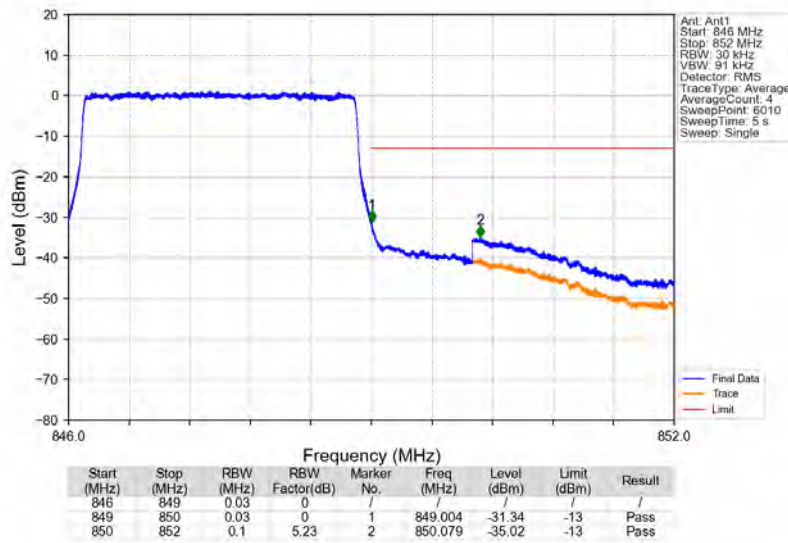
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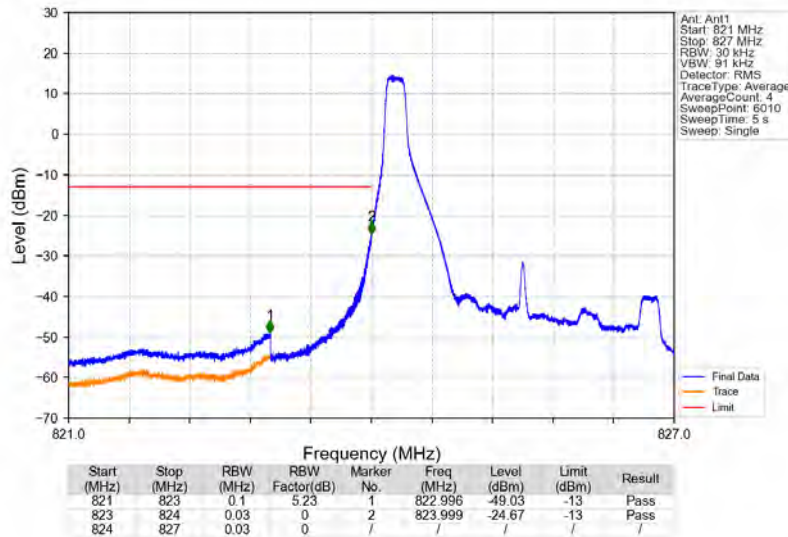
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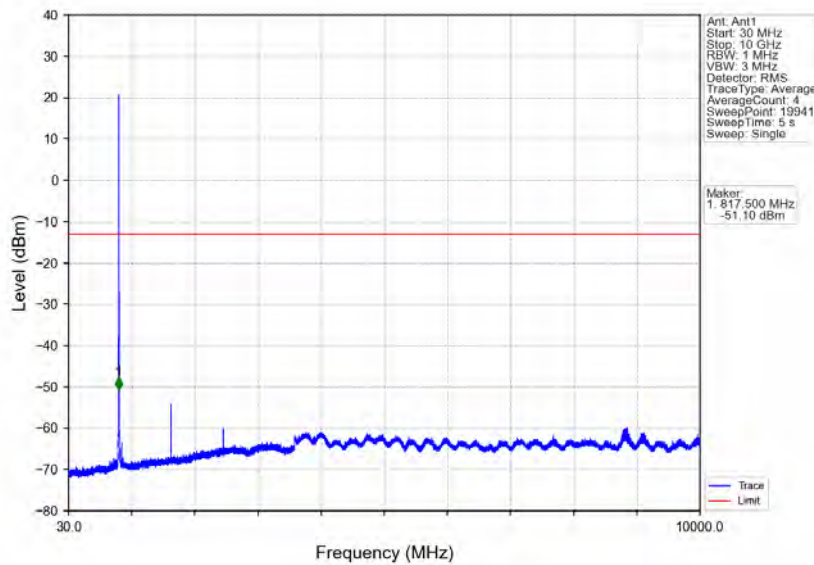
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Band5\_3MHz\_64QAM\_LCH\_825.5MHz\_RB\_1\_0\_NTNV



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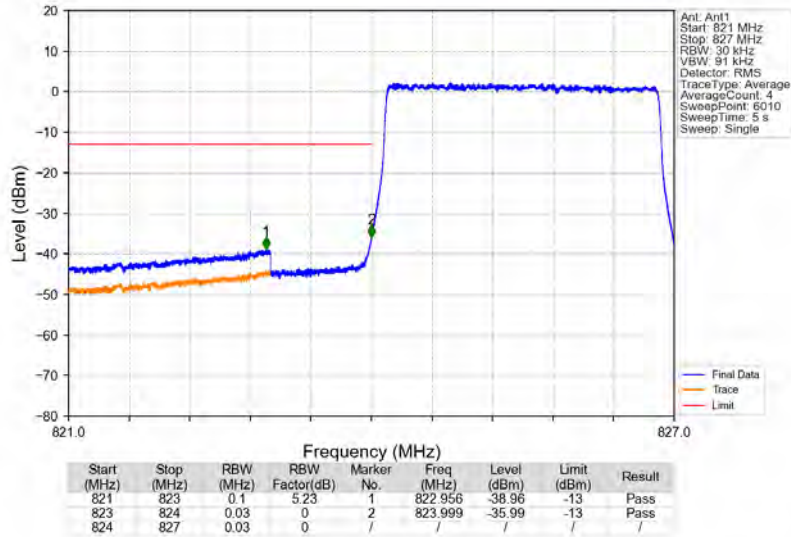
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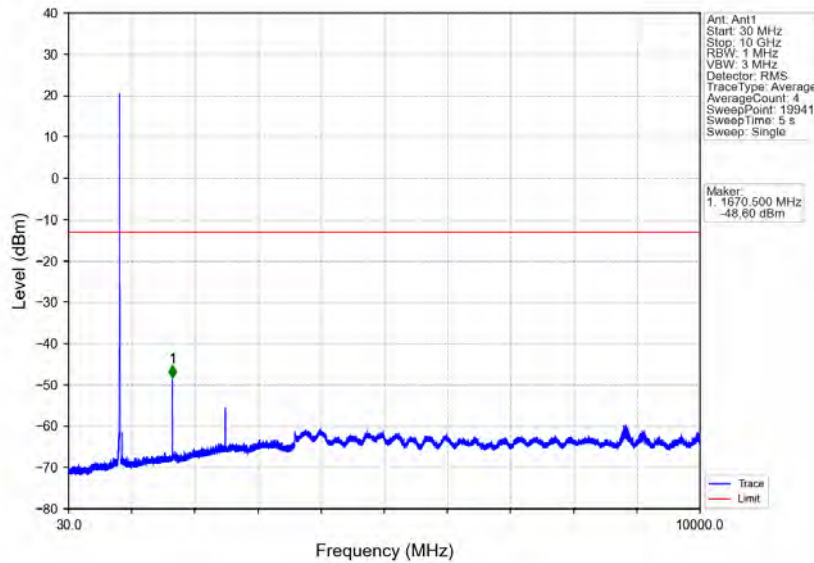


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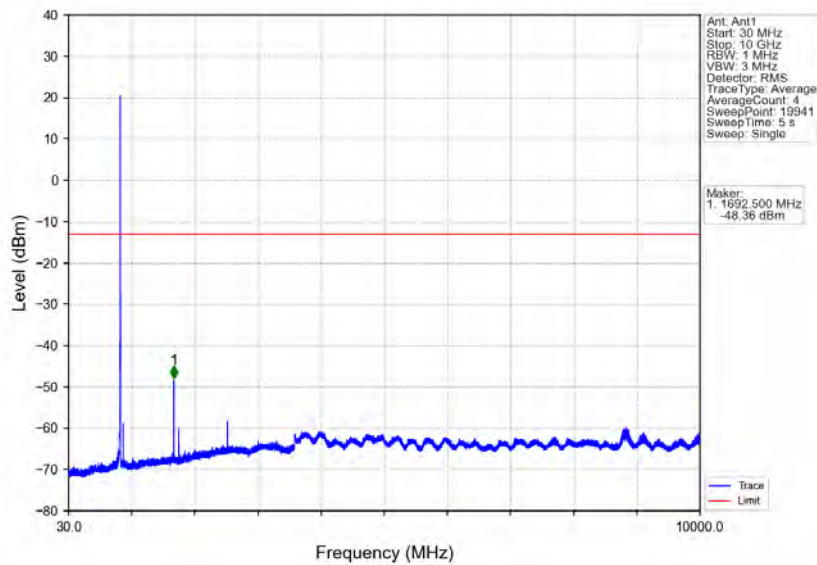
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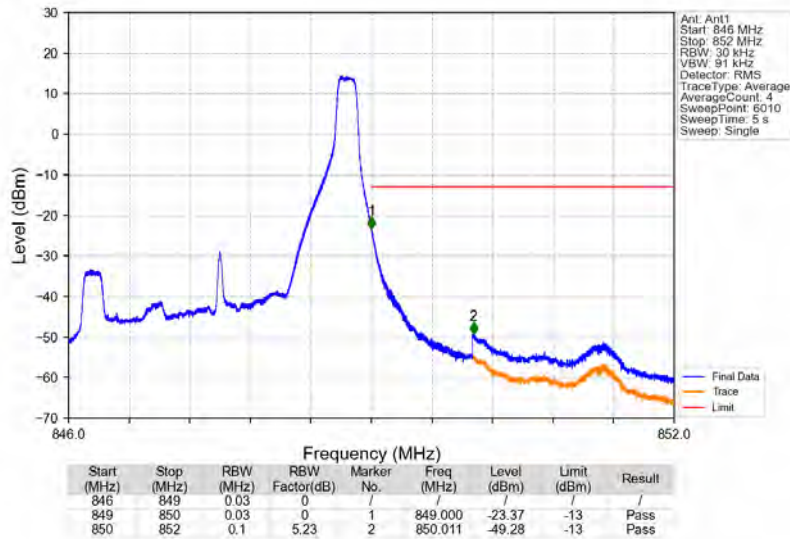


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Band5\_3MHz\_64QAM\_HCH\_847.5MHz\_RB\_1\_0\_NTNV



Band5\_3MHz\_64QAM\_HCH\_847.5MHz\_RB\_1\_14\_NTNV



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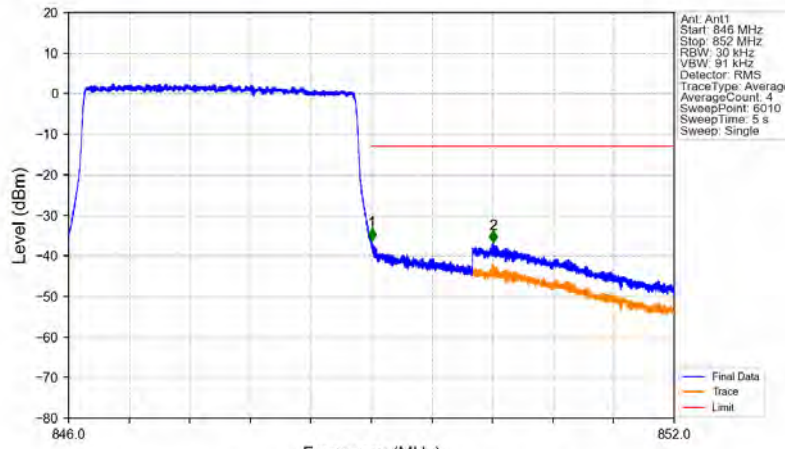
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Band5\_3MHz\_64QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor(dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
846	849	0.03	0	/	/	/	/	/
849	850	0.03	0	1	849.005	-36.17	-13	Pass
850	852	0.1	5.23	2	850.206	-36.76	-13	Pass



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6.3 B5\_5MHz

6.3.1 Test Result

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

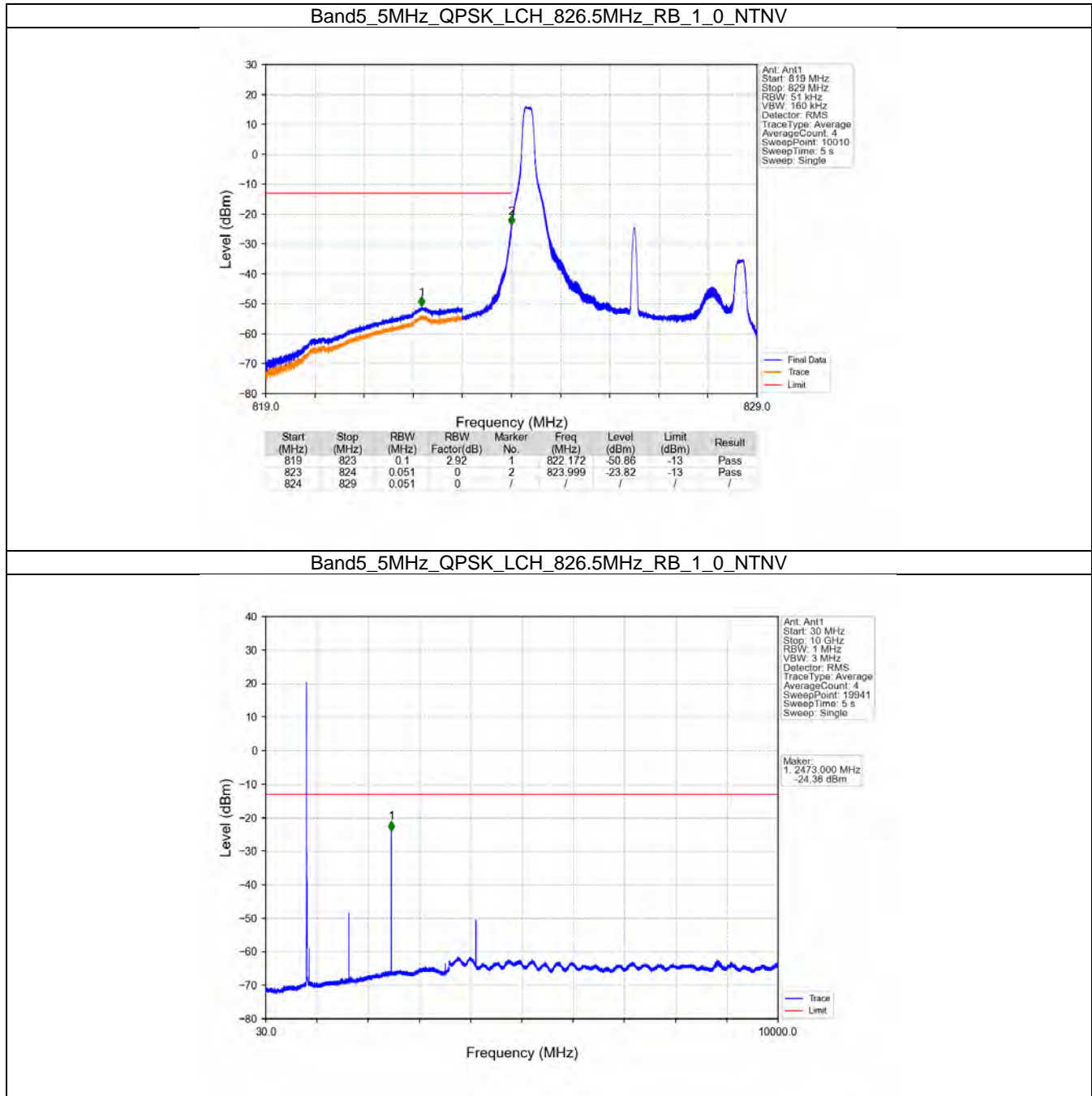


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6.3.2 Test Graph



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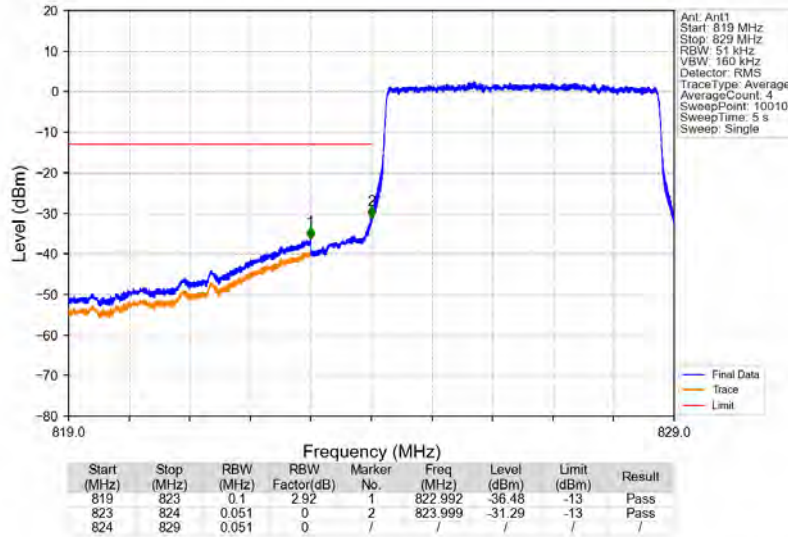
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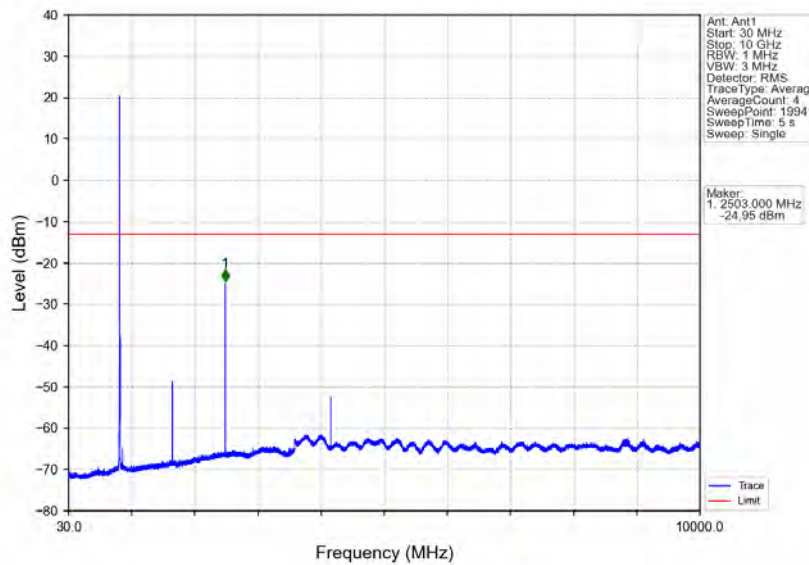
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Band5\_5MHz\_QPSK\_LCH\_826.5MHz\_RB\_25\_0\_NTNV



Band5\_5MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



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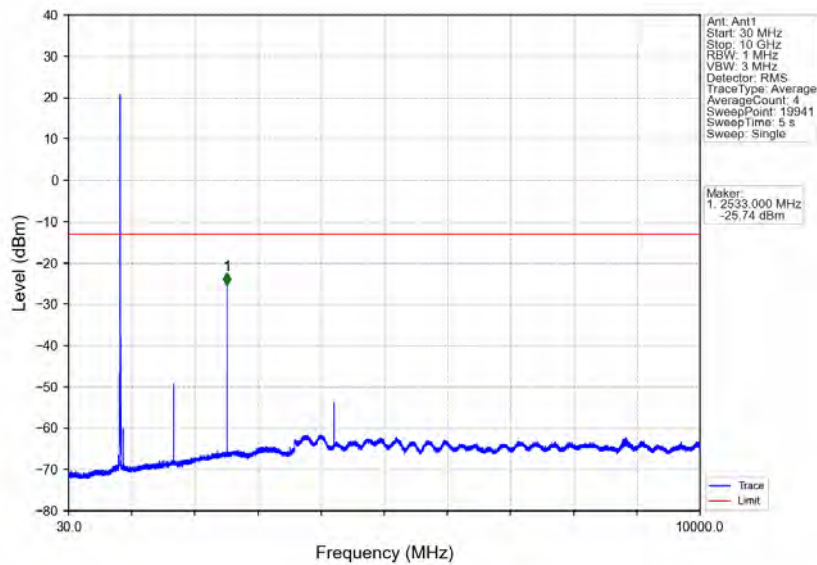
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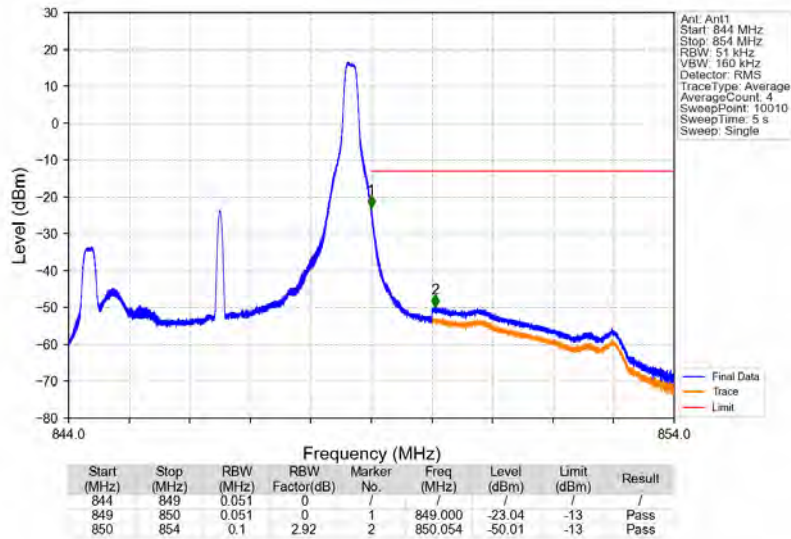


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Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_1\_24\_NTNV



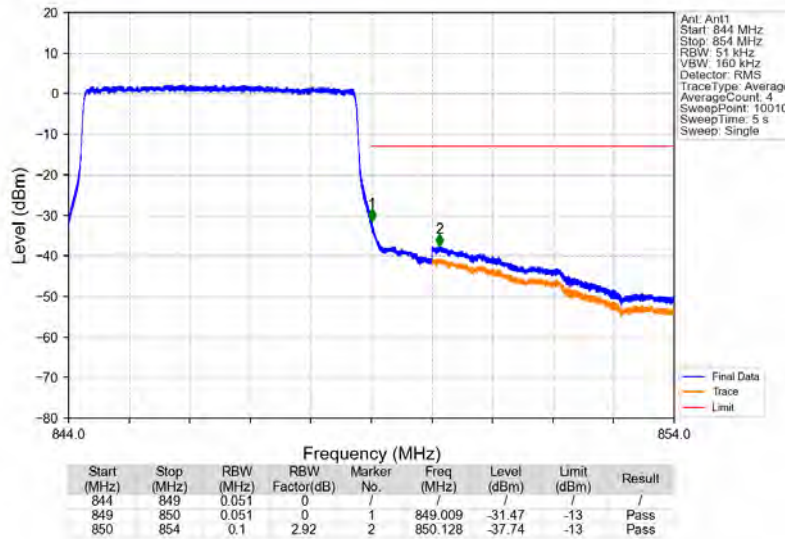
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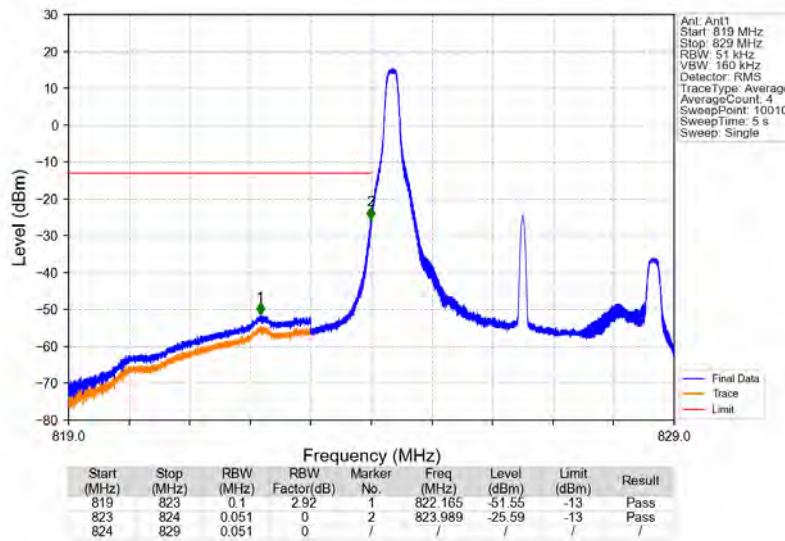
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Band5\_5MHz\_QPSK\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



Band5\_5MHz\_16QAM\_LCH\_826.5MHz\_RB\_1\_0\_NTNV



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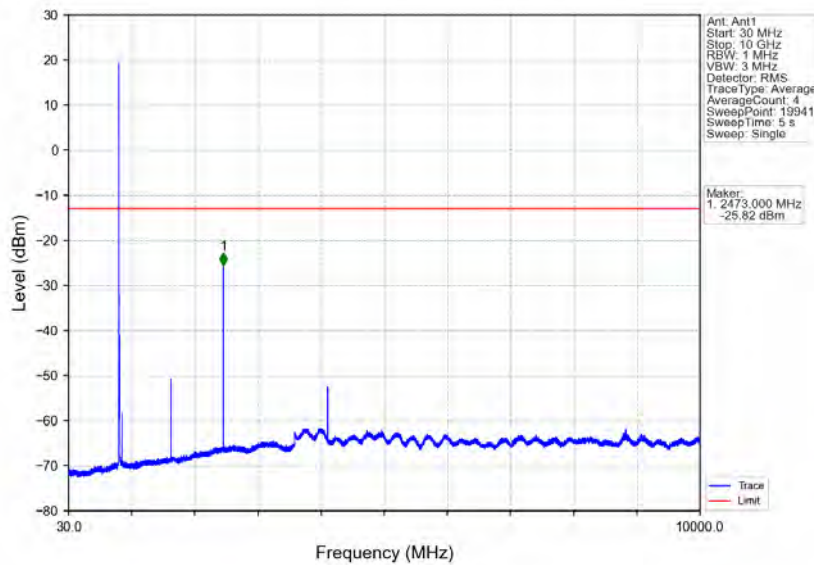
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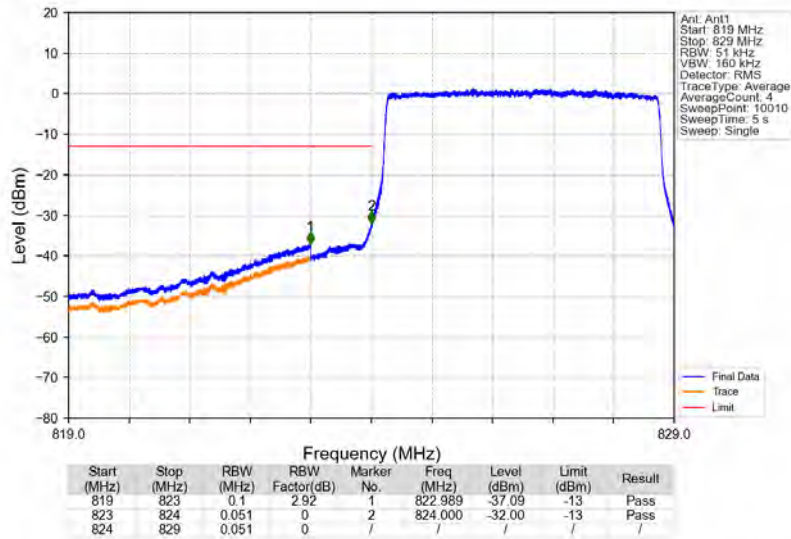
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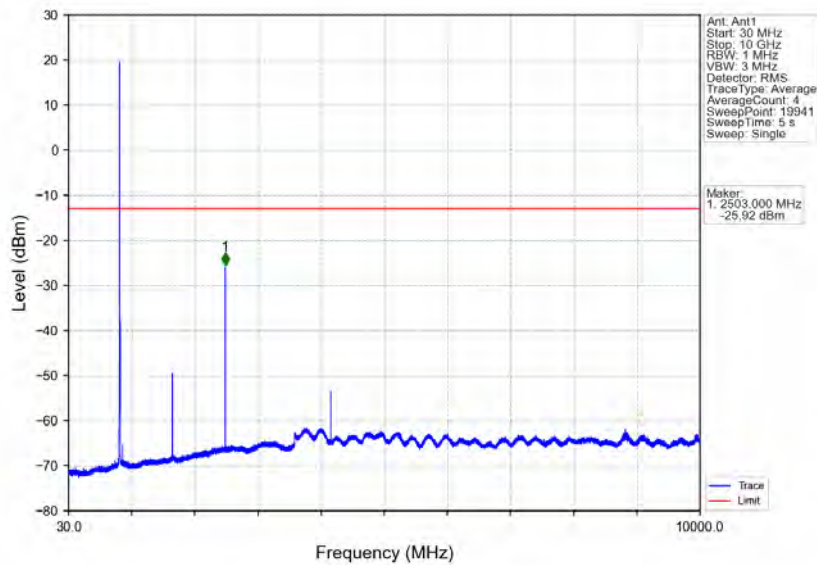
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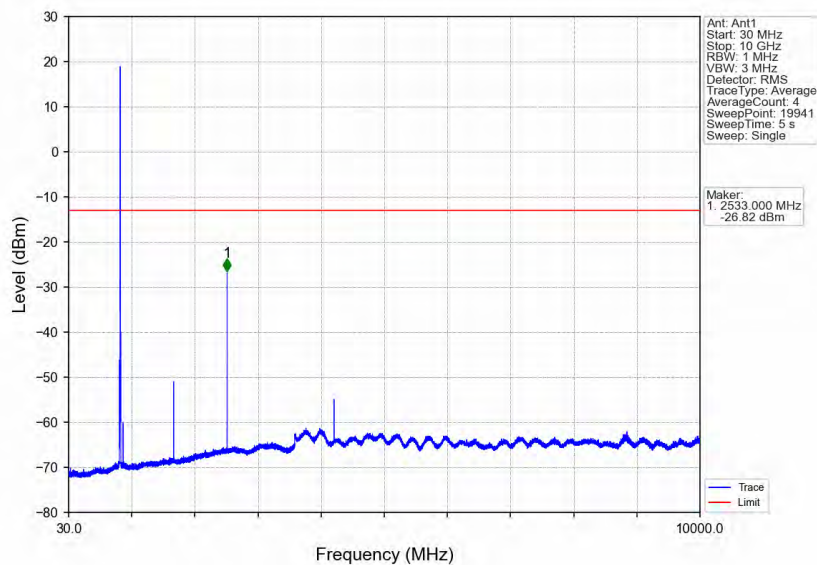
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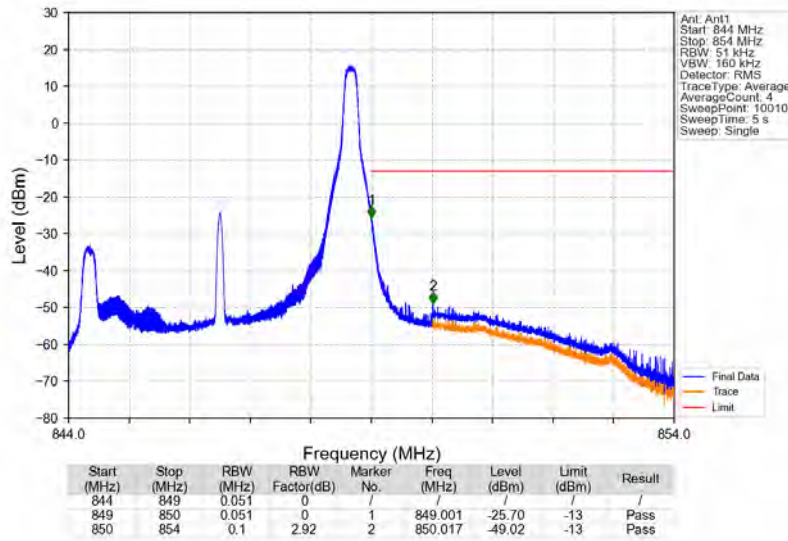
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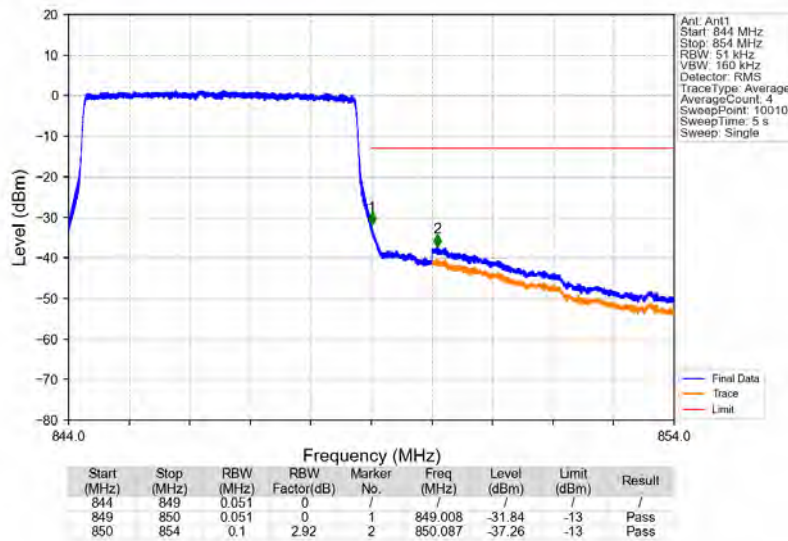
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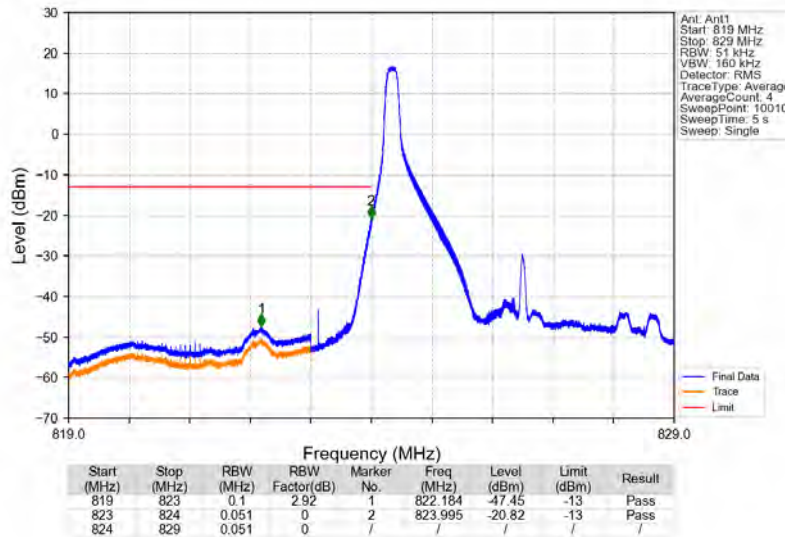
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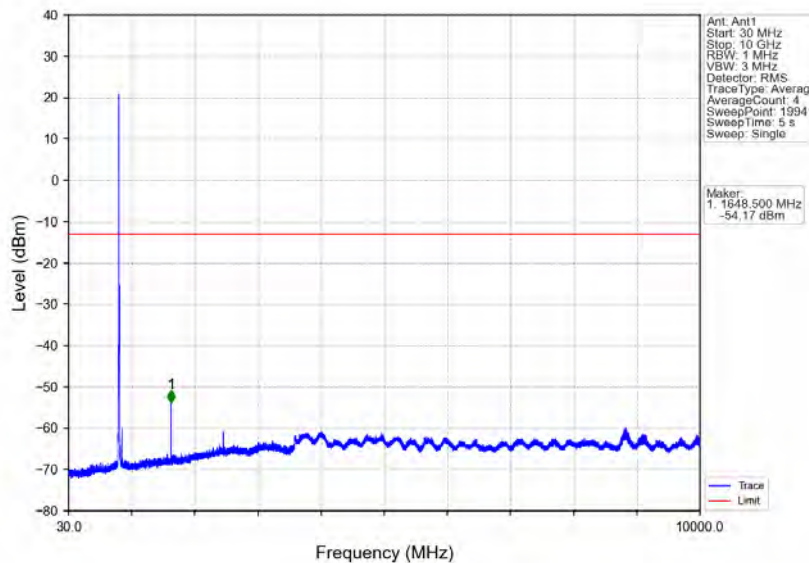
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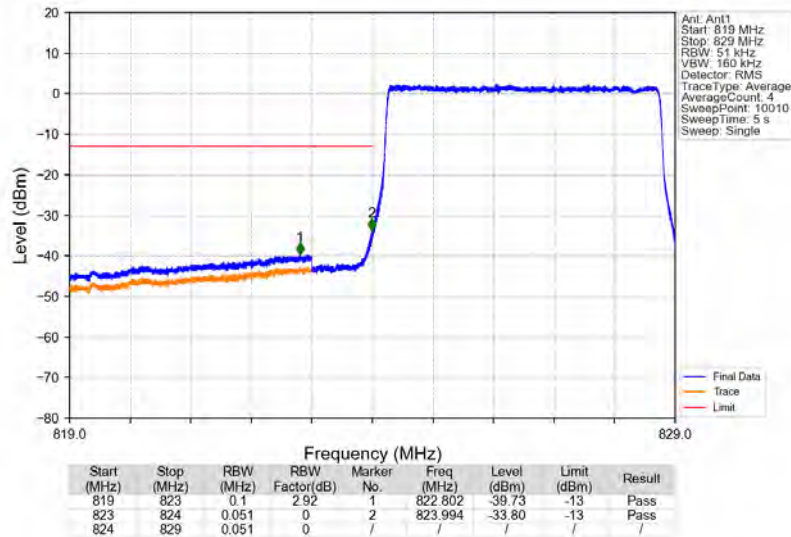
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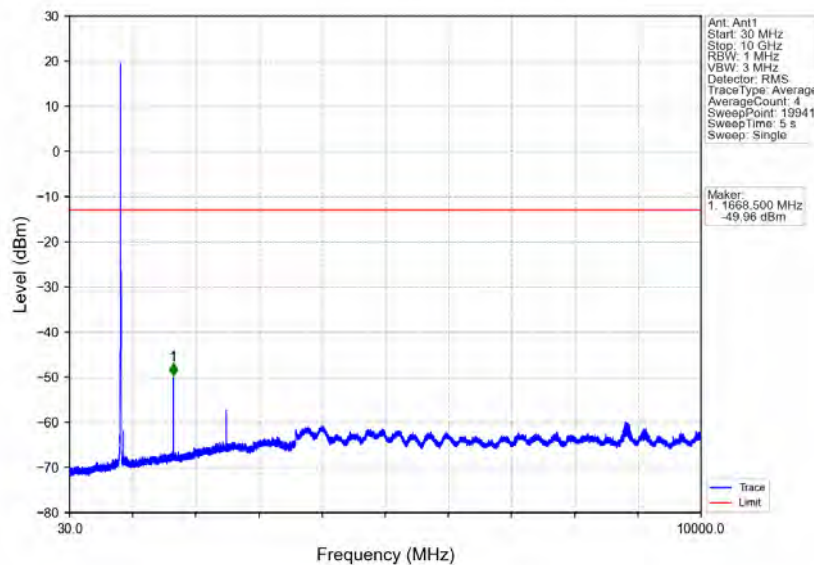


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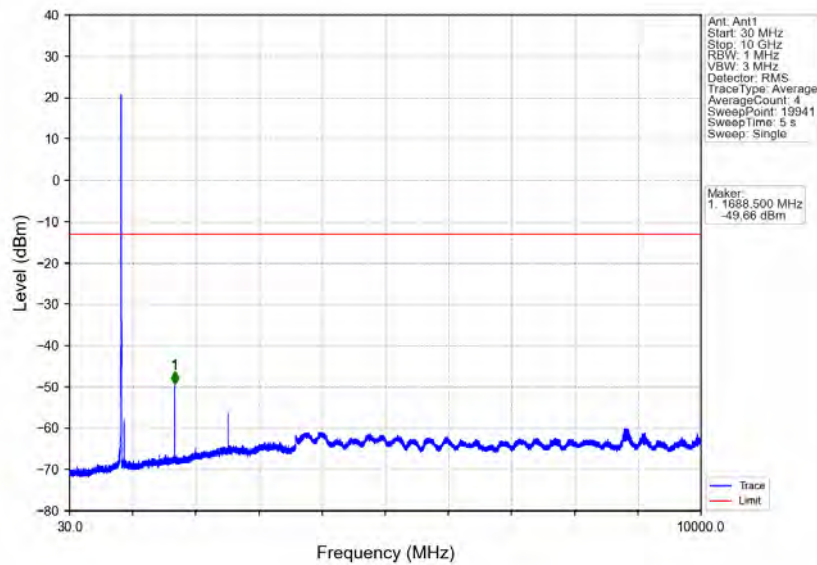
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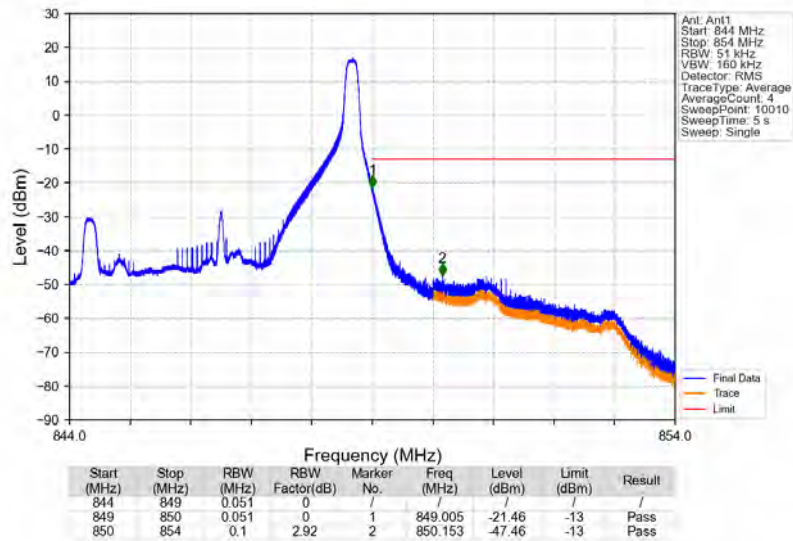


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 EMC Laboratory

Band5\_5MHz\_64QAM\_HCH\_846.5MHz\_RB\_1\_0\_NTNV



Band5\_5MHz\_64QAM\_HCH\_846.5MHz\_RB\_1\_24\_NTNV



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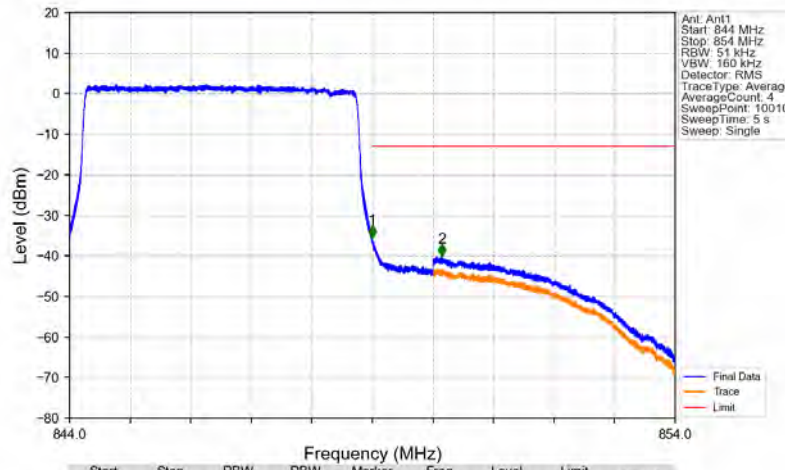
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Band5\_5MHz\_64QAM\_HCH\_846.5MHz\_RB\_25\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor (dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
844	849	0.051	0	/	/	/	/	/
849	850	0.051	0	1	849.000	-35.52	-13	Pass
850	854	0.1	2.92	2	850.146	-40.15	-13	Pass



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6.4 B5\_10MHz

6.4.1 Test Result

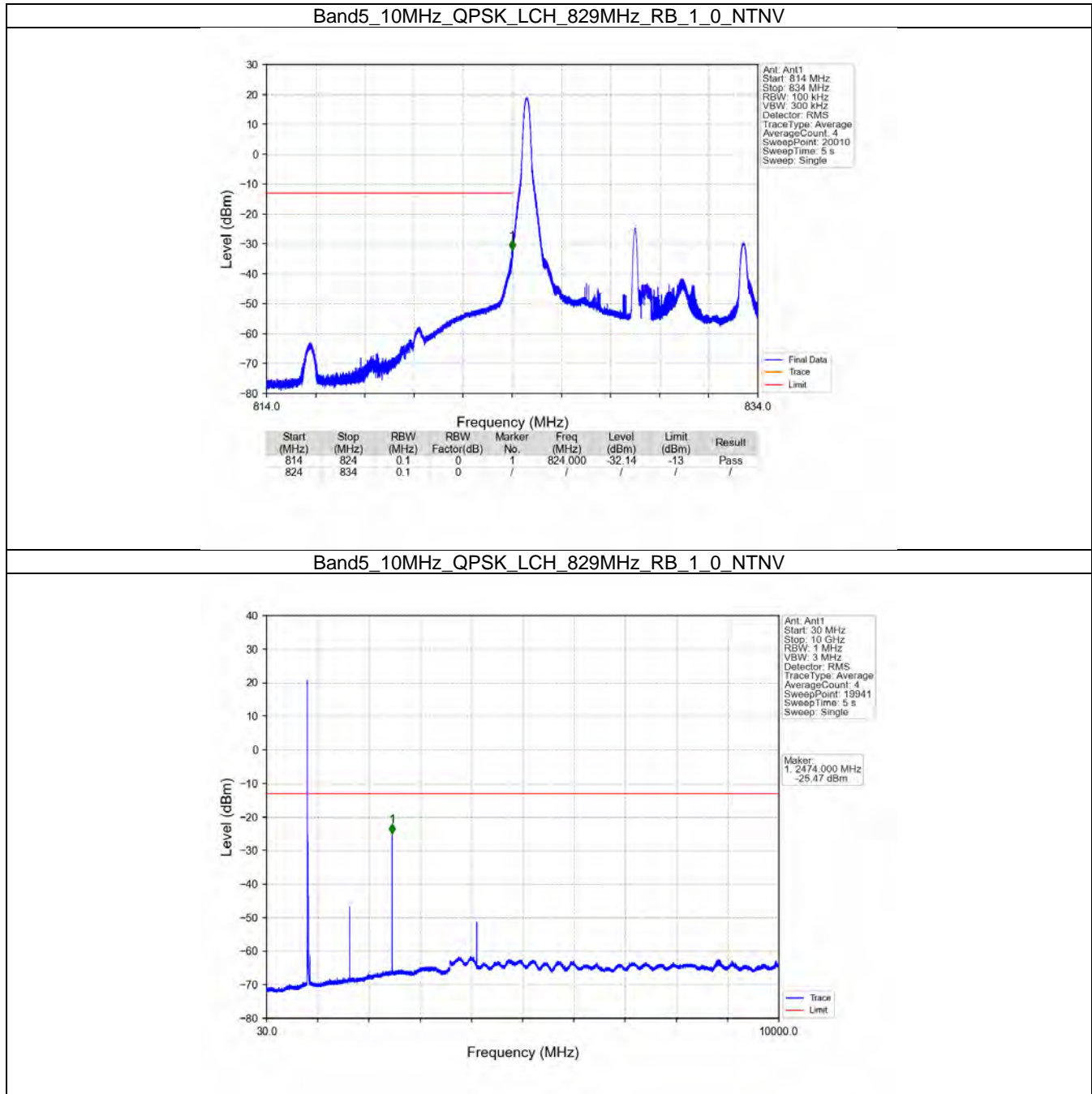
Band: 5 / Bandwidth: 10MHz / NTN							
Modulation	Frequency (MHz)	RB Allocation		Spurious Emission		Verdict	
		Size	Offset	Result	Limit		
QPSK	829	1	0	Refer To Test Graph		Pass	
		50	0	Refer To Test Graph		Pass	
	836.5	1	0	Refer To Test Graph		Pass	
		844	1	0	Refer To Test Graph		Pass
				49	Refer To Test Graph		Pass
	50	0	Refer To Test Graph		Pass		
16QAM	829	1	0	Refer To Test Graph		Pass	
		50	0	Refer To Test Graph		Pass	
	836.5	1	0	Refer To Test Graph		Pass	
		844	1	0	Refer To Test Graph		Pass
				49	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	
		844	1	0	Refer To Test Graph		Pass
				49	Refer To Test Graph		Pass
	50	0	Refer To Test Graph		Pass		



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6.4.2 Test Graph



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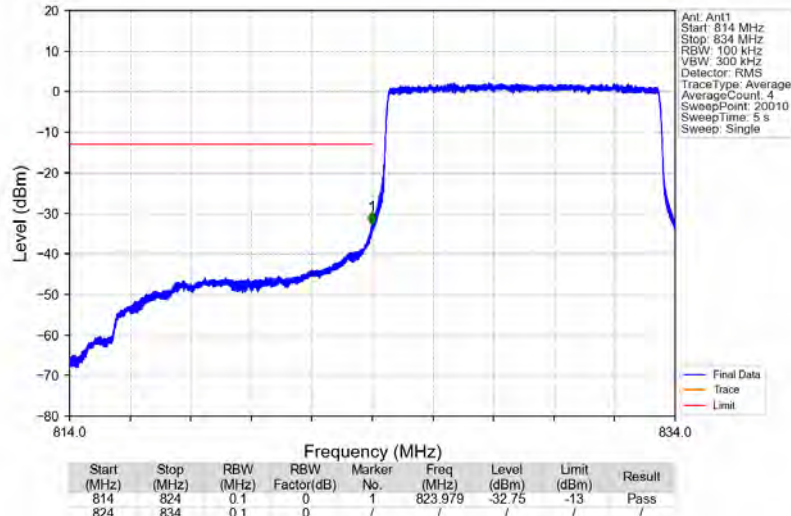
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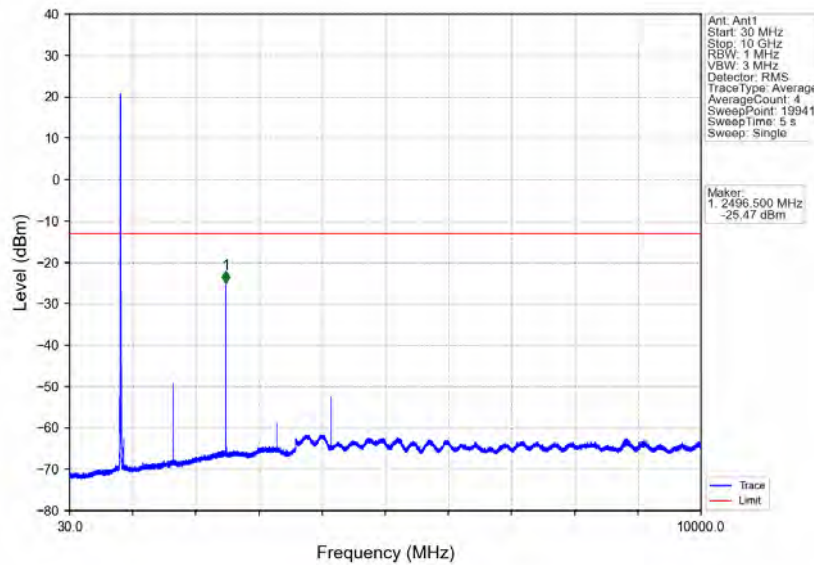
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Band5\_10MHz\_QPSK\_LCH\_829MHz\_RB\_50\_0\_NTNV



Band5\_10MHz\_QPSK\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



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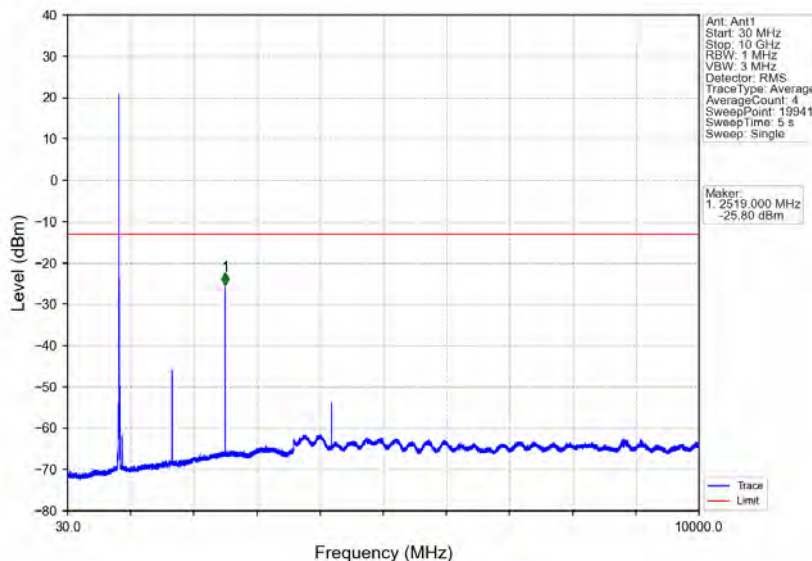
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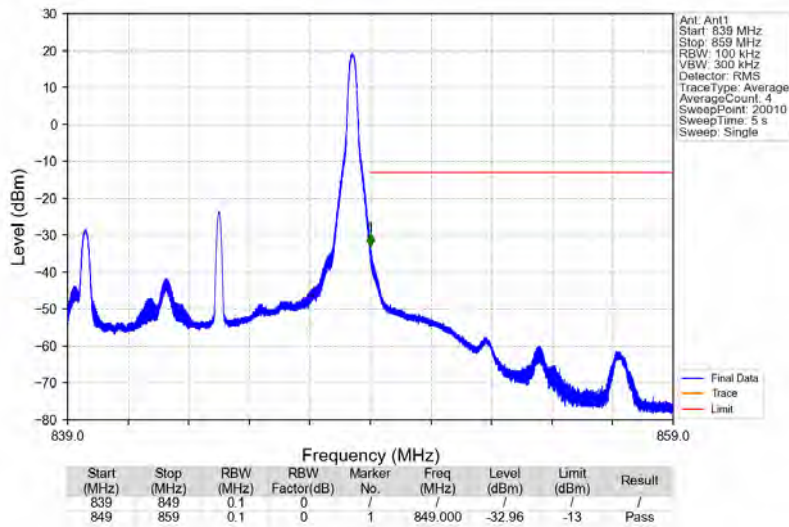
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Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_1\_0\_NTNV



Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_1\_49\_NTNV



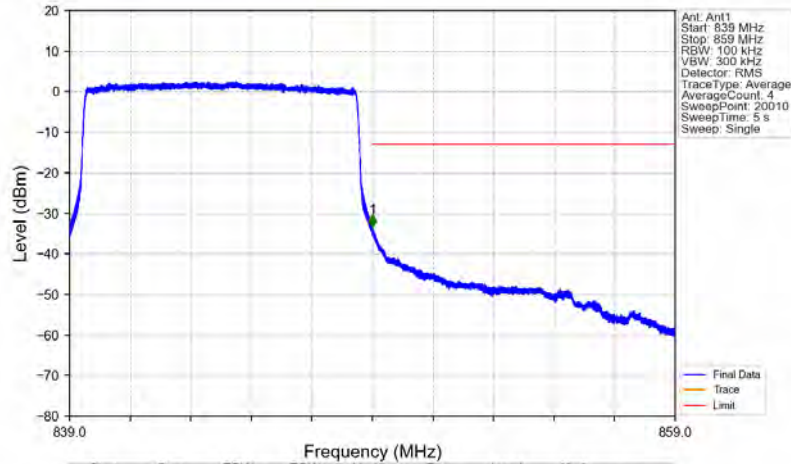
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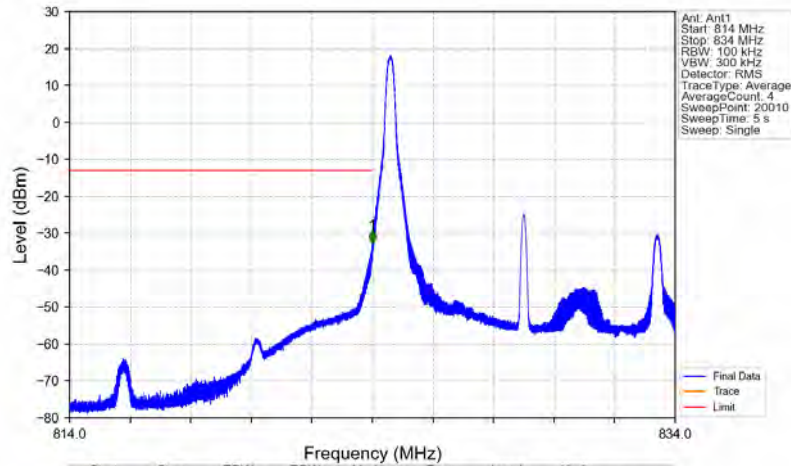
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Band5\_10MHz\_QPSK\_HCH\_844MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor (dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
839	849	0.1	0	/	/	/	/	/
849	859	0.1	0	1	849.010	-33.40	-13	Pass

Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_1\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor (dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	824	0.1	0	/	/	/	/	/
824	834	0.1	0	1	823.994	-32.62	-13	Pass



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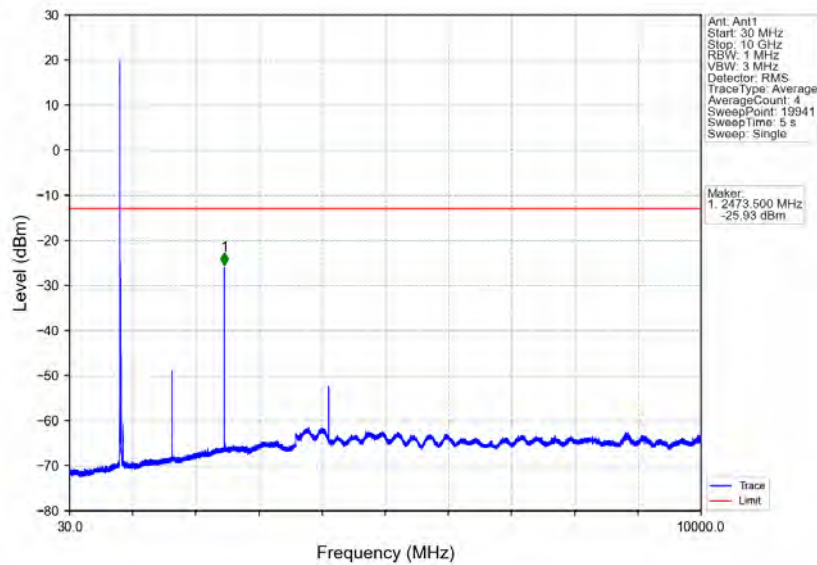
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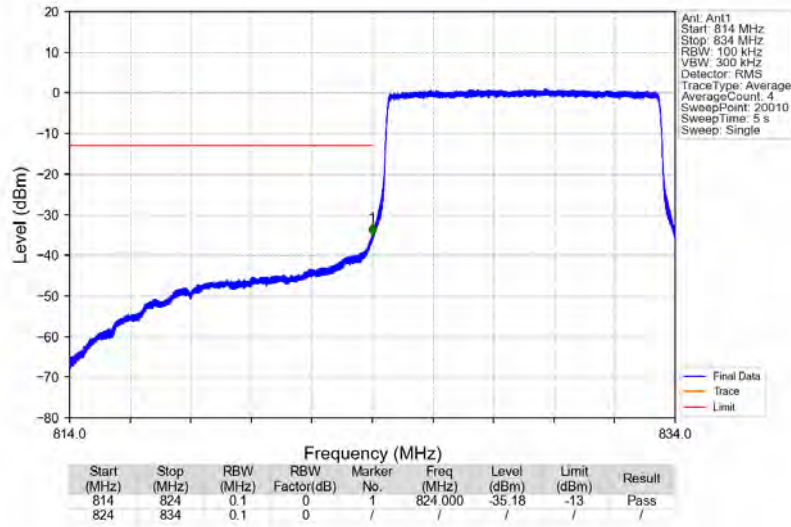
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Band5\_10MHz\_16QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



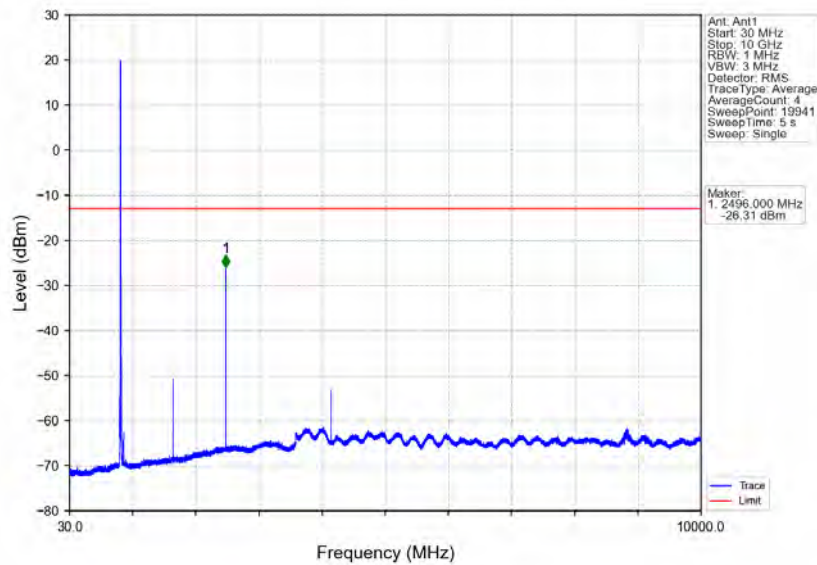
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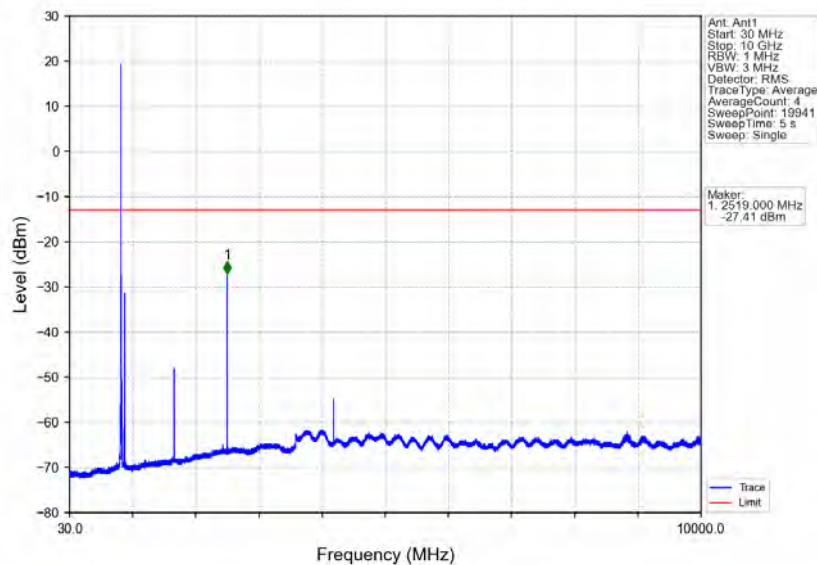
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Band5\_10MHz\_16QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



Band5\_10MHz\_16QAM\_HCH\_844MHz\_RB\_1\_0\_NTNV



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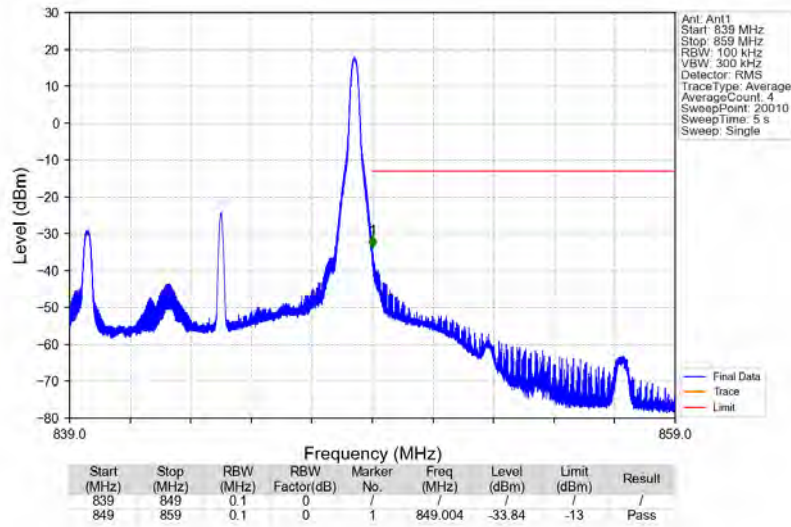
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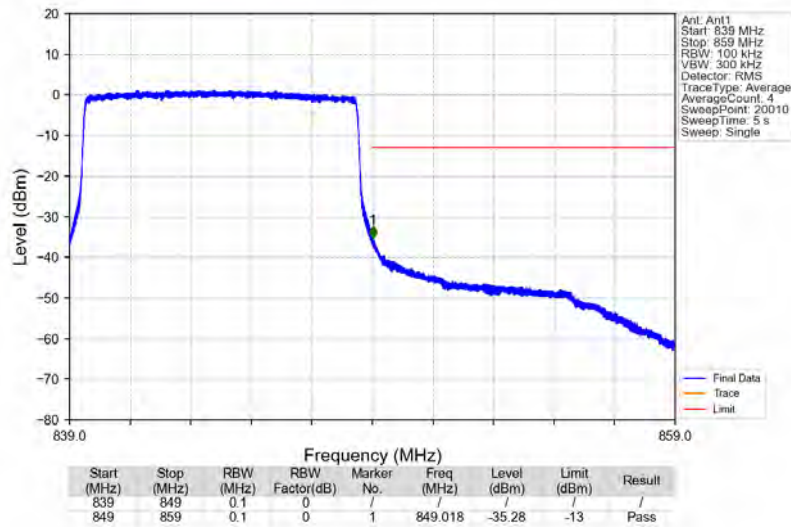
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Band5\_10MHz\_16QAM\_HCH\_844MHz\_RB\_1\_49\_NTNV



Band5\_10MHz\_16QAM\_HCH\_844MHz\_RB\_50\_0\_NTNV



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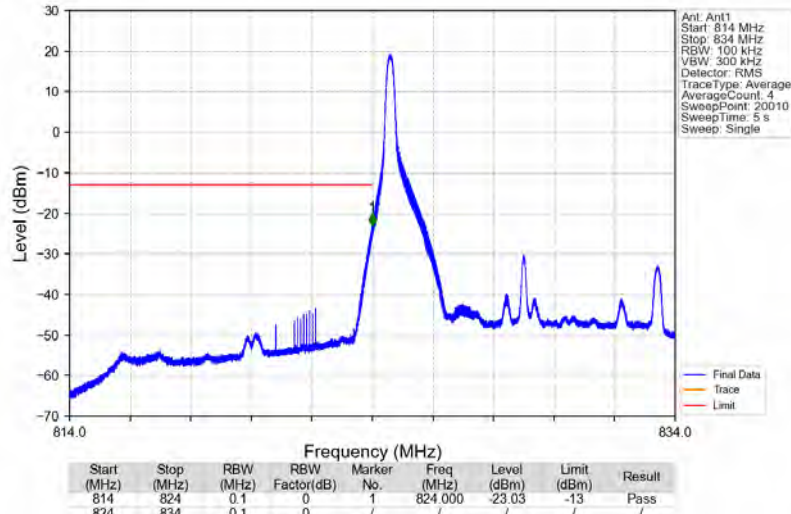
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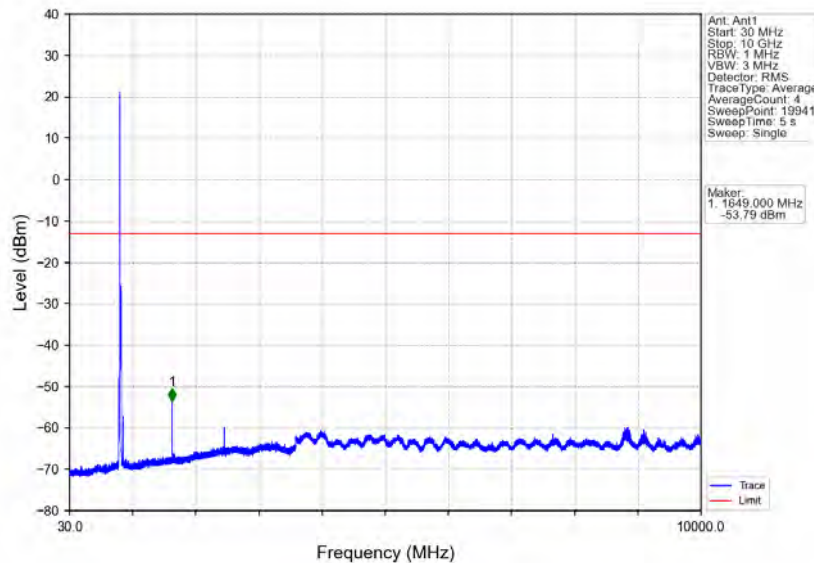
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Band5\_10MHz\_64QAM\_LCH\_829MHz\_RB\_1\_0\_NTNV



Band5\_10MHz\_64QAM\_LCH\_829MHz\_RB\_1\_0\_NTNV



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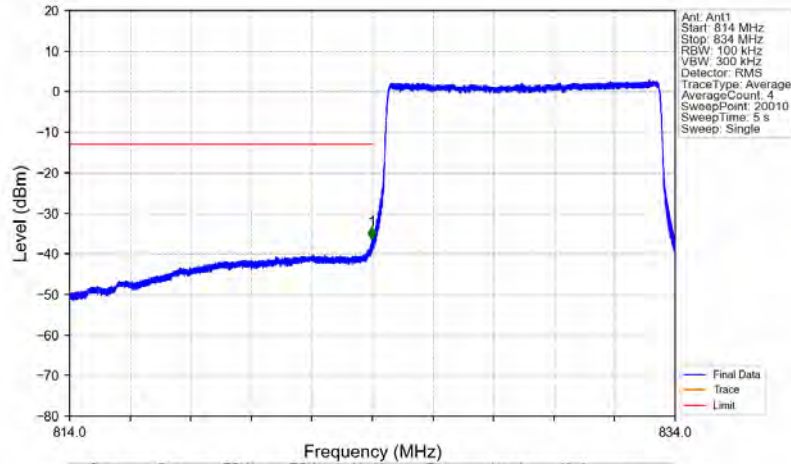
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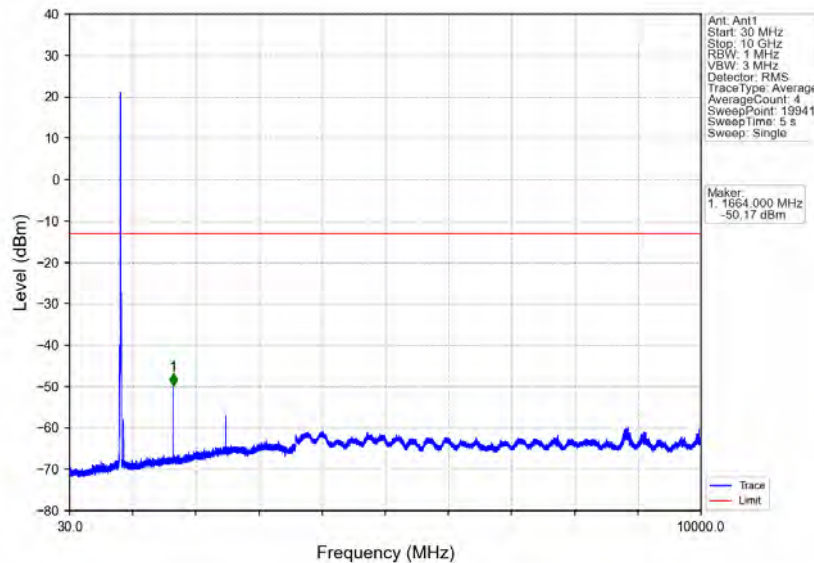


Band5\_10MHz\_64QAM\_LCH\_829MHz\_RB\_50\_0\_NTNV



Start (MHz)	Stop (MHz)	RBW (MHz)	RBW Factor (dB)	Marker No.	Freq (MHz)	Level (dBm)	Limit (dBm)	Result
814	824	0.1	0	1	823.985	-36.51	-13	Pass
824	834	0.1	0	/	/	/	/	/

Band5\_10MHz\_64QAM\_MCH\_836.5MHz\_RB\_1\_0\_NTNV



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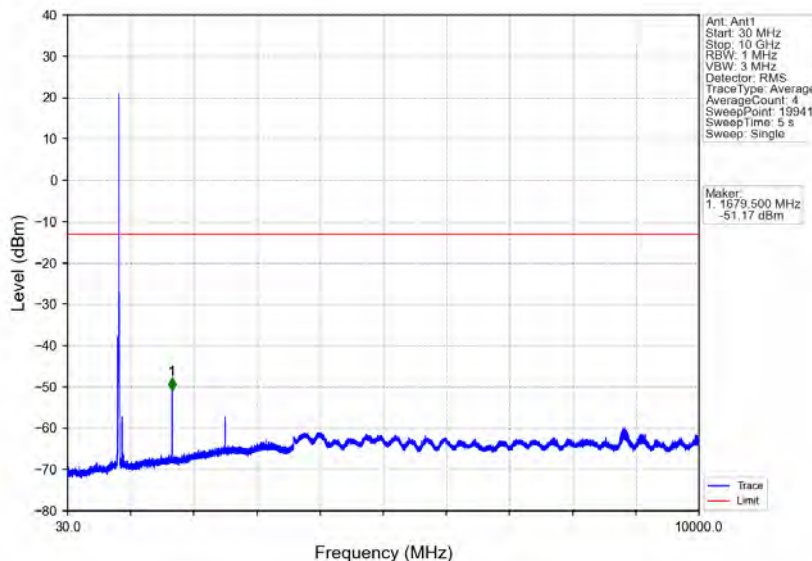
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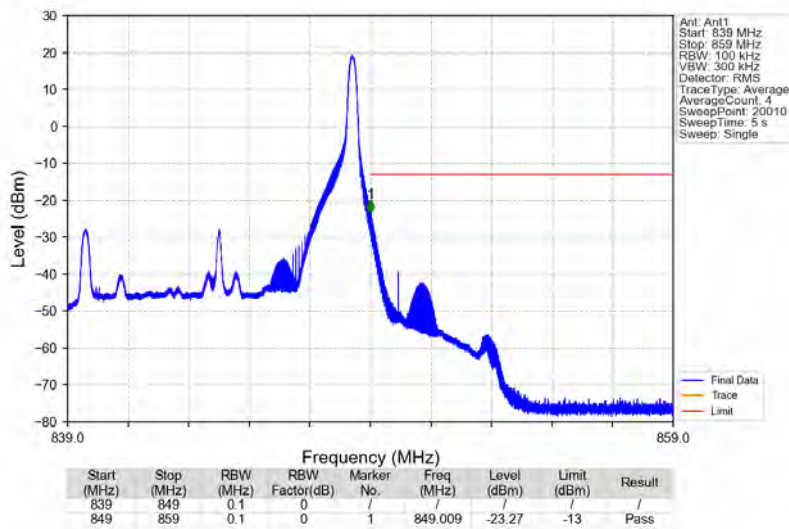
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Band5\_10MHz\_64QAM\_HCH\_844MHz\_RB\_1\_0\_NTNV



Band5\_10MHz\_64QAM\_HCH\_844MHz\_RB\_1\_49\_NTNV



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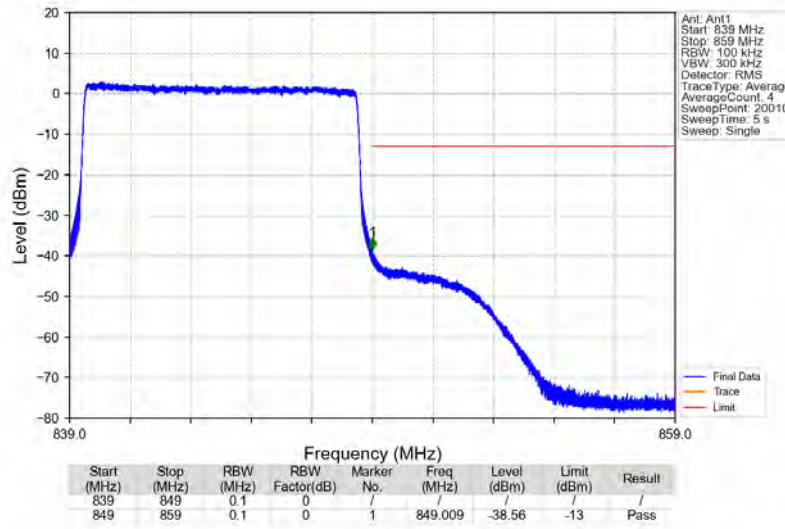
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