

# Appendix B.3

## LTE Band 5



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## 1. Effective (Isotropic) Radiated Power Output Data

### 1.1 Test Result

#### 1.1.1 B5\_1.4MHz\_ERP

Band: 5 / Bandwidth: 1.4MHz / NTN								
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	824.7	1	0	24.11	1.89	23.85	<=38.45	Pass
			2	24.06	1.89	23.80	<=38.45	Pass
			5	24.01	1.89	23.75	<=38.45	Pass
		3	0	24.06	1.89	23.80	<=38.45	Pass
			2	24.04	1.89	23.78	<=38.45	Pass
			3	24.01	1.89	23.75	<=38.45	Pass
	836.5	6	0	23.07	1.89	22.81	<=38.45	Pass
		1	0	23.89	1.89	23.63	<=38.45	Pass
			2	23.99	1.89	23.73	<=38.45	Pass
			5	23.95	1.89	23.69	<=38.45	Pass
		3	0	23.90	1.89	23.64	<=38.45	Pass
			2	23.99	1.89	23.73	<=38.45	Pass
			3	23.97	1.89	23.71	<=38.45	Pass
16QAM	848.3	1	0	22.99	1.89	22.73	<=38.45	Pass
			2	23.96	1.89	23.70	<=38.45	Pass
			5	23.93	1.89	23.67	<=38.45	Pass
		3	0	23.90	1.89	23.64	<=38.45	Pass
			2	23.89	1.89	23.63	<=38.45	Pass
			3	23.94	1.89	23.68	<=38.45	Pass
		6	0	23.93	1.89	23.67	<=38.45	Pass
			2	22.94	1.89	22.68	<=38.45	Pass
			5	22.96	1.89	22.70	<=38.45	Pass
		1	0	23.16	1.89	22.90	<=38.45	Pass
			2	23.16	1.89	22.90	<=38.45	Pass
			5	23.14	1.89	22.88	<=38.45	Pass
		3	0	23.08	1.89	22.82	<=38.45	Pass
			2	23.08	1.89	22.82	<=38.45	Pass
			3	23.14	1.89	22.88	<=38.45	Pass
		6	0	22.03	1.89	21.77	<=38.45	Pass
	836.5	1	0	23.06	1.89	22.80	<=38.45	Pass

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848.3	3	2	23.17	1.89	22.91	<=38.45	Pass	
		5	23.02	1.89	22.76	<=38.45	Pass	
		0	22.98	1.89	22.72	<=38.45	Pass	
		2	23.01	1.89	22.75	<=38.45	Pass	
		3	23.08	1.89	22.82	<=38.45	Pass	
	1	6	0	21.97	1.89	21.71	<=38.45	Pass
		0	23.06	1.89	22.80	<=38.45	Pass	
		2	23.08	1.89	22.82	<=38.45	Pass	
		5	23.12	1.89	22.86	<=38.45	Pass	
		0	23.01	1.89	22.75	<=38.45	Pass	
	3	2	23.01	1.89	22.75	<=38.45	Pass	
		3	23.07	1.89	22.81	<=38.45	Pass	
		6	0	21.88	1.89	21.62	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

### 1.1.2 B5\_3MHz\_ERP

Band: 5 / Bandwidth: 3MHz / NTNV									
Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict	
		Size	Offset			Result	Limit		
QPSK	825.5	1	0	23.98	1.89	23.72	<=38.45	Pass	
			7	24.03	1.89	23.77	<=38.45	Pass	
			14	23.92	1.89	23.66	<=38.45	Pass	
		8	0	23.10	1.89	22.84	<=38.45	Pass	
			4	23.06	1.89	22.80	<=38.45	Pass	
			7	23.07	1.89	22.81	<=38.45	Pass	
	836.5	15	0	23.09	1.89	22.83	<=38.45	Pass	
		1	0	23.95	1.89	23.69	<=38.45	Pass	
			7	24.02	1.89	23.76	<=38.45	Pass	
			14	23.97	1.89	23.71	<=38.45	Pass	
		8	0	22.94	1.89	22.68	<=38.45	Pass	
	847.5		4	23.04	1.89	22.78	<=38.45	Pass	
			7	23.02	1.89	22.76	<=38.45	Pass	
			15	0	22.94	1.89	22.68	<=38.45	Pass
	1	0	23.93	1.89	23.67	<=38.45	Pass		
		7	23.95	1.89	23.69	<=38.45	Pass		
		14	23.97	1.89	23.71	<=38.45	Pass		
	8	0	22.88	1.89	22.62	<=38.45	Pass		



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			4	22.95	1.89	22.69	<=38.45	Pass
			7	22.97	1.89	22.71	<=38.45	Pass
			15	0	22.95	1.89	22.69	<=38.45
16QAM	825.5	1	0	23.20	1.89	22.94	<=38.45	Pass
			7	23.15	1.89	22.89	<=38.45	Pass
			14	23.05	1.89	22.79	<=38.45	Pass
		8	0	22.13	1.89	21.87	<=38.45	Pass
			4	22.14	1.89	21.88	<=38.45	Pass
			7	22.09	1.89	21.83	<=38.45	Pass
			15	0	22.10	1.89	21.84	<=38.45
	836.5	1	0	23.13	1.89	22.87	<=38.45	Pass
			7	23.19	1.89	22.93	<=38.45	Pass
			14	23.20	1.89	22.94	<=38.45	Pass
		8	0	21.94	1.89	21.68	<=38.45	Pass
			4	22.10	1.89	21.84	<=38.45	Pass
			7	22.03	1.89	21.77	<=38.45	Pass
			15	0	21.94	1.89	21.68	<=38.45
	847.5	1	0	23.14	1.89	22.88	<=38.45	Pass
			7	23.18	1.89	22.92	<=38.45	Pass
			14	23.07	1.89	22.81	<=38.45	Pass
		8	0	21.90	1.89	21.64	<=38.45	Pass
			4	21.99	1.89	21.73	<=38.45	Pass
			7	21.99	1.89	21.73	<=38.45	Pass
			15	0	21.98	1.89	21.72	<=38.45

Note1: ERP=Conducted Power+Antenna Gain-2.15

### 1.1.3 B5\_5MHz\_ERP

Modulation	Frequency (MHz)	Band: 5 / Bandwidth: 5MHz / NTV						Verdict	
		RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)			
		Size	Offset			Result	Limit		
QPSK	826.5	1	0	24.13	1.89	23.87	<=38.45	Pass	
			13	24.08	1.89	23.82	<=38.45	Pass	
			24	23.96	1.89	23.70	<=38.45	Pass	
		12	0	23.03	1.89	22.77	<=38.45	Pass	
			6	23.12	1.89	22.86	<=38.45	Pass	
			13	23.03	1.89	22.77	<=38.45	Pass	
			25	0	23.11	1.89	22.85	<=38.45	Pass



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	836.5	1	0	24.04	1.89	23.78	<=38.45	Pass
			13	24.01	1.89	23.75	<=38.45	Pass
			24	24.06	1.89	23.80	<=38.45	Pass
		12	0	22.98	1.89	22.72	<=38.45	Pass
			6	22.98	1.89	22.72	<=38.45	Pass
			13	23.04	1.89	22.78	<=38.45	Pass
	846.5	25	0	22.96	1.89	22.70	<=38.45	Pass
		1	0	23.92	1.89	23.66	<=38.45	Pass
			13	24.01	1.89	23.75	<=38.45	Pass
			24	23.92	1.89	23.66	<=38.45	Pass
		12	0	22.88	1.89	22.62	<=38.45	Pass
			6	22.88	1.89	22.62	<=38.45	Pass
			13	22.99	1.89	22.73	<=38.45	Pass
		25	0	22.92	1.89	22.66	<=38.45	Pass
16QAM	826.5	1	0	23.25	1.89	22.99	<=38.45	Pass
			13	23.22	1.89	22.96	<=38.45	Pass
			24	23.15	1.89	22.89	<=38.45	Pass
		12	0	21.97	1.89	21.71	<=38.45	Pass
			6	22.09	1.89	21.83	<=38.45	Pass
			13	22.07	1.89	21.81	<=38.45	Pass
	836.5	25	0	22.14	1.89	21.88	<=38.45	Pass
		1	0	23.19	1.89	22.93	<=38.45	Pass
			13	23.22	1.89	22.96	<=38.45	Pass
			24	23.22	1.89	22.96	<=38.45	Pass
		12	0	22.06	1.89	21.80	<=38.45	Pass
			6	22.03	1.89	21.77	<=38.45	Pass
			13	22.02	1.89	21.76	<=38.45	Pass
	846.5	25	0	21.99	1.89	21.73	<=38.45	Pass
		1	0	23.14	1.89	22.88	<=38.45	Pass
			13	23.20	1.89	22.94	<=38.45	Pass
			24	23.07	1.89	22.81	<=38.45	Pass
		12	0	21.87	1.89	21.61	<=38.45	Pass
			6	21.97	1.89	21.71	<=38.45	Pass
			13	21.92	1.89	21.66	<=38.45	Pass
		25	0	21.91	1.89	21.65	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

#### 1.1.4 B5\_10MHz\_ERP



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Modulation	Frequency (MHz)	RB Allocation		Conducted Power (dBm)	Gain (dBi)	ERP (dBm)		Verdict
		Size	Offset			Result	Limit	
QPSK	829	1	0	24.02	1.89	23.76	<=38.45	Pass
			25	23.95	1.89	23.69	<=38.45	Pass
			49	23.86	1.89	23.60	<=38.45	Pass
		25	0	23.03	1.89	22.77	<=38.45	Pass
			13	23.08	1.89	22.82	<=38.45	Pass
			25	22.99	1.89	22.73	<=38.45	Pass
	836.5	50	0	23.05	1.89	22.79	<=38.45	Pass
		1	0	23.97	1.89	23.71	<=38.45	Pass
			25	23.99	1.89	23.73	<=38.45	Pass
			49	23.92	1.89	23.66	<=38.45	Pass
		25	0	22.97	1.89	22.71	<=38.45	Pass
			13	23.06	1.89	22.80	<=38.45	Pass
			25	23.04	1.89	22.78	<=38.45	Pass
16QAM	844	1	0	23.95	1.89	23.69	<=38.45	Pass
			25	23.93	1.89	23.67	<=38.45	Pass
			49	23.91	1.89	23.65	<=38.45	Pass
		25	0	23.01	1.89	22.75	<=38.45	Pass
			13	22.92	1.89	22.66	<=38.45	Pass
			25	22.98	1.89	22.72	<=38.45	Pass
	829	50	0	22.97	1.89	22.71	<=38.45	Pass
		1	0	23.13	1.89	22.87	<=38.45	Pass
			25	23.13	1.89	22.87	<=38.45	Pass
			49	23.06	1.89	22.80	<=38.45	Pass
		25	0	22.05	1.89	21.79	<=38.45	Pass
			13	22.09	1.89	21.83	<=38.45	Pass
			25	22.04	1.89	21.78	<=38.45	Pass
	836.5	50	0	22.06	1.89	21.80	<=38.45	Pass
		1	0	23.07	1.89	22.81	<=38.45	Pass
			25	23.23	1.89	22.97	<=38.45	Pass
			49	23.10	1.89	22.84	<=38.45	Pass
		25	0	21.99	1.89	21.73	<=38.45	Pass
			13	22.11	1.89	21.85	<=38.45	Pass
			25	22.08	1.89	21.82	<=38.45	Pass
		50	0	21.98	1.89	21.72	<=38.45	Pass



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844	844	1	0	23.16	1.89	22.90	<=38.45	Pass
			25	23.04	1.89	22.78	<=38.45	Pass
			49	23.00	1.89	22.74	<=38.45	Pass
		25	0	22.01	1.89	21.75	<=38.45	Pass
			13	21.95	1.89	21.69	<=38.45	Pass
			25	21.99	1.89	21.73	<=38.45	Pass
		50	0	21.98	1.89	21.72	<=38.45	Pass

Note1: ERP=Conducted Power+Antenna Gain-2.15

## 2. Frequency Stability

### 2.1 Test Result

#### 2.1.1 B5\_1.4MHz

Modulation	Frequency (MHz)	Band: 5 / Bandwidth: 1.4MHz							Verdict	
		RB Allocation		Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)			
		Size	Offset				Result	Limit		
QPSK	824.7	6	0	20	3.27	9.542	0.0116	-2.5 to 2.5	Pass	
					3.85	14.606	0.0177	-2.5 to 2.5	Pass	
					4.43	12.002	0.0146	-2.5 to 2.5	Pass	
				-30	3.85	6.065	0.0074	-2.5 to 2.5	Pass	
				-20	3.85	4.377	0.0053	-2.5 to 2.5	Pass	
				-10	3.85	2.732	0.0033	-2.5 to 2.5	Pass	
				0	3.85	2.861	0.0035	-2.5 to 2.5	Pass	
				10	3.85	0.257	0.0003	-2.5 to 2.5	Pass	
				30	3.85	-0.401	-0.0005	-2.5 to 2.5	Pass	
				40	3.85	-0.172	-0.0002	-2.5 to 2.5	Pass	
				50	3.85	-0.100	-0.0001	-2.5 to 2.5	Pass	
	836.5	6	0	20	3.27	13.146	0.0157	-2.5 to 2.5	Pass	
					3.85	11.244	0.0134	-2.5 to 2.5	Pass	
					4.43	6.537	0.0078	-2.5 to 2.5	Pass	
				-30	3.85	3.633	0.0043	-2.5 to 2.5	Pass	
				-20	3.85	2.189	0.0026	-2.5 to 2.5	Pass	
				-10	3.85	0.587	0.0007	-2.5 to 2.5	Pass	
				0	3.85	1.860	0.0022	-2.5 to 2.5	Pass	
				10	3.85	2.046	0.0024	-2.5 to 2.5	Pass	
				30	3.85	1.760	0.0021	-2.5 to 2.5	Pass	



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	848.3	6	0	40	3.85	0.343	0.0004	-2.5 to 2.5	Pass	
				50	3.85	2.317	0.0028	-2.5 to 2.5	Pass	
				20	3.27	8.726	0.0103	-2.5 to 2.5	Pass	
					3.85	6.609	0.0078	-2.5 to 2.5	Pass	
					4.43	3.848	0.0045	-2.5 to 2.5	Pass	
					-30	3.85	2.632	0.0031	-2.5 to 2.5	Pass
				-20	3.85	1.874	0.0022	-2.5 to 2.5	Pass	
					-10	3.85	0.887	0.0010	-2.5 to 2.5	Pass
					0	3.85	1.359	0.0016	-2.5 to 2.5	Pass
					10	3.85	0.243	0.0003	-2.5 to 2.5	Pass
				30	3.85	0.544	0.0006	-2.5 to 2.5	Pass	
					40	3.85	1.101	0.0013	-2.5 to 2.5	Pass
					50	3.85	0.358	0.0004	-2.5 to 2.5	Pass
					3.27	-0.572	-0.0007	-2.5 to 2.5	Pass	
16QAM	824.7	6	0	20	3.85	1.502	0.0018	-2.5 to 2.5	Pass	
					4.43	1.144	0.0014	-2.5 to 2.5	Pass	
					-30	3.85	0.601	0.0007	-2.5 to 2.5	Pass
					-20	3.85	0.129	0.0002	-2.5 to 2.5	Pass
				-10	3.85	0.930	0.0011	-2.5 to 2.5	Pass	
					0	3.85	0.672	0.0008	-2.5 to 2.5	Pass
					10	3.85	0.873	0.0011	-2.5 to 2.5	Pass
					30	3.85	1.044	0.0013	-2.5 to 2.5	Pass
				40	3.85	-0.186	-0.0002	-2.5 to 2.5	Pass	
					50	3.85	-1.059	-0.0013	-2.5 to 2.5	Pass
				20	3.27	0.958	0.0011	-2.5 to 2.5	Pass	
					3.85	1.359	0.0016	-2.5 to 2.5	Pass	
					4.43	1.788	0.0021	-2.5 to 2.5	Pass	
					-30	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
	836.5	6	0	-20	3.85	-0.372	-0.0004	-2.5 to 2.5	Pass	
					-10	3.85	0.830	0.0010	-2.5 to 2.5	Pass
					0	3.85	-0.415	-0.0005	-2.5 to 2.5	Pass
					10	3.85	1.030	0.0012	-2.5 to 2.5	Pass
				30	3.85	-0.086	-0.0001	-2.5 to 2.5	Pass	
					40	3.85	-0.129	-0.0002	-2.5 to 2.5	Pass
					50	3.85	1.059	0.0013	-2.5 to 2.5	Pass
					3.27	-0.072	-0.0001	-2.5 to 2.5	Pass	
	848.3	6	0	20	3.85	0.300	0.0004	-2.5 to 2.5	Pass	
					4.43	0.229	0.0003	-2.5 to 2.5	Pass	



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-30	3.85	-0.257	-0.0003	-2.5 to 2.5	Pass
-20	3.85	0.515	0.0006	-2.5 to 2.5	Pass
-10	3.85	0.544	0.0006	-2.5 to 2.5	Pass
0	3.85	0.801	0.0009	-2.5 to 2.5	Pass
10	3.85	-0.272	-0.0003	-2.5 to 2.5	Pass
30	3.85	-0.987	-0.0012	-2.5 to 2.5	Pass
40	3.85	0.143	0.0002	-2.5 to 2.5	Pass
50	3.85	0.916	0.0011	-2.5 to 2.5	Pass

### 2.1.2 B5\_3MHz

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	3.27	0.529	0.0006	-2.5 to 2.5	Pass
					3.85	0.815	0.0010	-2.5 to 2.5	Pass
					4.43	0.801	0.0010	-2.5 to 2.5	Pass
				-30	3.85	0.443	0.0005	-2.5 to 2.5	Pass
				-20	3.85	0.129	0.0002	-2.5 to 2.5	Pass
				-10	3.85	3.233	0.0039	-2.5 to 2.5	Pass
				0	3.85	1.688	0.0020	-2.5 to 2.5	Pass
				10	3.85	0.744	0.0009	-2.5 to 2.5	Pass
				30	3.85	0.901	0.0011	-2.5 to 2.5	Pass
				40	3.85	2.847	0.0034	-2.5 to 2.5	Pass
				50	3.85	0.958	0.0012	-2.5 to 2.5	Pass
	836.5	15	0	20	3.27	1.459	0.0017	-2.5 to 2.5	Pass
					3.85	1.502	0.0018	-2.5 to 2.5	Pass
					4.43	1.087	0.0013	-2.5 to 2.5	Pass
				-30	3.85	1.230	0.0015	-2.5 to 2.5	Pass
				-20	3.85	2.460	0.0029	-2.5 to 2.5	Pass
				-10	3.85	2.475	0.0030	-2.5 to 2.5	Pass
				0	3.85	3.290	0.0039	-2.5 to 2.5	Pass
				10	3.85	2.589	0.0031	-2.5 to 2.5	Pass
				30	3.85	0.787	0.0009	-2.5 to 2.5	Pass
				40	3.85	2.389	0.0029	-2.5 to 2.5	Pass
				50	3.85	1.173	0.0014	-2.5 to 2.5	Pass
	847.5	15	0	20	3.27	2.375	0.0028	-2.5 to 2.5	Pass
					3.85	2.518	0.0030	-2.5 to 2.5	Pass



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				4.43	2.818	0.0033	-2.5 to 2.5	Pass	
				-30	3.85	2.346	0.0028	-2.5 to 2.5	Pass
				-20	3.85	2.289	0.0027	-2.5 to 2.5	Pass
				-10	3.85	2.275	0.0027	-2.5 to 2.5	Pass
				0	3.85	1.988	0.0023	-2.5 to 2.5	Pass
				10	3.85	2.718	0.0032	-2.5 to 2.5	Pass
				30	3.85	1.988	0.0023	-2.5 to 2.5	Pass
				40	3.85	2.589	0.0031	-2.5 to 2.5	Pass
				50	3.85	1.287	0.0015	-2.5 to 2.5	Pass
16QAM	825.5	15	0	20	3.27	1.516	0.0018	-2.5 to 2.5	Pass
					3.85	2.460	0.0030	-2.5 to 2.5	Pass
					4.43	0.973	0.0012	-2.5 to 2.5	Pass
				-30	3.85	2.160	0.0026	-2.5 to 2.5	Pass
				-20	3.85	0.930	0.0011	-2.5 to 2.5	Pass
				-10	3.85	3.004	0.0036	-2.5 to 2.5	Pass
				0	3.85	2.003	0.0024	-2.5 to 2.5	Pass
				10	3.85	1.202	0.0015	-2.5 to 2.5	Pass
				30	3.85	1.874	0.0023	-2.5 to 2.5	Pass
				40	3.85	1.345	0.0016	-2.5 to 2.5	Pass
				50	3.85	0.100	0.0001	-2.5 to 2.5	Pass
	836.5	15	0	20	3.27	0.558	0.0007	-2.5 to 2.5	Pass
					3.85	1.702	0.0020	-2.5 to 2.5	Pass
					4.43	1.101	0.0013	-2.5 to 2.5	Pass
				-30	3.85	1.760	0.0021	-2.5 to 2.5	Pass
				-20	3.85	1.159	0.0014	-2.5 to 2.5	Pass
				-10	3.85	2.160	0.0026	-2.5 to 2.5	Pass
				0	3.85	-0.014	0.0000	-2.5 to 2.5	Pass
				10	3.85	0.629	0.0008	-2.5 to 2.5	Pass
				30	3.85	2.074	0.0025	-2.5 to 2.5	Pass
				40	3.85	1.974	0.0024	-2.5 to 2.5	Pass
				50	3.85	1.159	0.0014	-2.5 to 2.5	Pass
	847.5	15	0	20	3.27	1.860	0.0022	-2.5 to 2.5	Pass
					3.85	1.216	0.0014	-2.5 to 2.5	Pass
					4.43	0.687	0.0008	-2.5 to 2.5	Pass
				-30	3.85	0.529	0.0006	-2.5 to 2.5	Pass
				-20	3.85	0.086	0.0001	-2.5 to 2.5	Pass
				-10	3.85	1.559	0.0018	-2.5 to 2.5	Pass
				0	3.85	-0.386	-0.0005	-2.5 to 2.5	Pass



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				10	3.85	1.159	0.0014	-2.5 to 2.5	Pass
				30	3.85	0.329	0.0004	-2.5 to 2.5	Pass
				40	3.85	0.873	0.0010	-2.5 to 2.5	Pass
				50	3.85	0.243	0.0003	-2.5 to 2.5	Pass

**2.1.3 B5\_5MHz**

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	3.27	1.259	0.0015	-2.5 to 2.5	Pass	
					3.85	0.257	0.0003	-2.5 to 2.5	Pass	
					4.43	0.772	0.0009	-2.5 to 2.5	Pass	
				-30	3.85	0.257	0.0003	-2.5 to 2.5	Pass	
				-20	3.85	0.000	0.0000	-2.5 to 2.5	Pass	
				-10	3.85	0.372	0.0005	-2.5 to 2.5	Pass	
				0	3.85	0.601	0.0007	-2.5 to 2.5	Pass	
				10	3.85	0.029	0.0000	-2.5 to 2.5	Pass	
				30	3.85	0.873	0.0011	-2.5 to 2.5	Pass	
				40	3.85	0.572	0.0007	-2.5 to 2.5	Pass	
				50	3.85	0.000	0.0000	-2.5 to 2.5	Pass	
	836.5	25	0	20	3.27	0.372	0.0004	-2.5 to 2.5	Pass	
					3.85	0.815	0.0010	-2.5 to 2.5	Pass	
					4.43	0.386	0.0005	-2.5 to 2.5	Pass	
				-30	3.85	1.202	0.0014	-2.5 to 2.5	Pass	
				-20	3.85	0.429	0.0005	-2.5 to 2.5	Pass	
	846.5	25	0	20	-10	3.85	1.159	0.0014	-2.5 to 2.5	Pass
					0	-0.043	-0.0001	-2.5 to 2.5	Pass	
					10	3.85	0.443	0.0005	-2.5 to 2.5	Pass
				-30	3.85	0.558	0.0007	-2.5 to 2.5	Pass	
				-20	3.85	-0.372	-0.0004	-2.5 to 2.5	Pass	
				-10	3.85	0.601	0.0007	-2.5 to 2.5	Pass	



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				0	3.85	1.616	0.0019	-2.5 to 2.5	Pass
				10	3.85	0.372	0.0004	-2.5 to 2.5	Pass
				30	3.85	0.830	0.0010	-2.5 to 2.5	Pass
				40	3.85	1.316	0.0016	-2.5 to 2.5	Pass
				50	3.85	1.116	0.0013	-2.5 to 2.5	Pass
16QAM	826.5	25	0	20	3.27	-0.272	-0.0003	-2.5 to 2.5	Pass
					3.85	-0.615	-0.0007	-2.5 to 2.5	Pass
					4.43	-0.329	-0.0004	-2.5 to 2.5	Pass
				-30	3.85	0.644	0.0008	-2.5 to 2.5	Pass
				-20	3.85	-0.873	-0.0011	-2.5 to 2.5	Pass
				-10	3.85	-0.429	-0.0005	-2.5 to 2.5	Pass
				0	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
				10	3.85	-0.429	-0.0005	-2.5 to 2.5	Pass
				30	3.85	0.501	0.0006	-2.5 to 2.5	Pass
				40	3.85	-0.658	-0.0008	-2.5 to 2.5	Pass
				50	3.85	-0.086	-0.0001	-2.5 to 2.5	Pass
	836.5	25	0	20	3.27	-0.300	-0.0004	-2.5 to 2.5	Pass
					3.85	0.014	0.0000	-2.5 to 2.5	Pass
					4.43	0.858	0.0010	-2.5 to 2.5	Pass
				-30	3.85	-0.043	-0.0001	-2.5 to 2.5	Pass
				-20	3.85	-0.257	-0.0003	-2.5 to 2.5	Pass
				-10	3.85	-0.358	-0.0004	-2.5 to 2.5	Pass
				0	3.85	0.386	0.0005	-2.5 to 2.5	Pass
				10	3.85	0.029	0.0000	-2.5 to 2.5	Pass
				30	3.85	0.715	0.0009	-2.5 to 2.5	Pass
				40	3.85	-0.386	-0.0005	-2.5 to 2.5	Pass
				50	3.85	0.401	0.0005	-2.5 to 2.5	Pass
	846.5	25	0	20	3.27	0.186	0.0002	-2.5 to 2.5	Pass
					3.85	1.087	0.0013	-2.5 to 2.5	Pass
					4.43	1.030	0.0012	-2.5 to 2.5	Pass
				-30	3.85	1.359	0.0016	-2.5 to 2.5	Pass
				-20	3.85	0.744	0.0009	-2.5 to 2.5	Pass
				-10	3.85	1.559	0.0018	-2.5 to 2.5	Pass
				0	3.85	0.958	0.0011	-2.5 to 2.5	Pass
				10	3.85	1.402	0.0017	-2.5 to 2.5	Pass
				30	3.85	0.458	0.0005	-2.5 to 2.5	Pass
				40	3.85	0.901	0.0011	-2.5 to 2.5	Pass
				50	3.85	0.844	0.0010	-2.5 to 2.5	Pass



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**2.1.4 B5\_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	3.27	1.702	0.0021	-2.5 to 2.5	Pass
					3.85	0.701	0.0008	-2.5 to 2.5	Pass
					4.43	-0.501	-0.0006	-2.5 to 2.5	Pass
				-30	3.85	0.315	0.0004	-2.5 to 2.5	Pass
				-20	3.85	0.515	0.0006	-2.5 to 2.5	Pass
				-10	3.85	0.386	0.0005	-2.5 to 2.5	Pass
				0	3.85	-0.544	-0.0007	-2.5 to 2.5	Pass
				10	3.85	-0.343	-0.0004	-2.5 to 2.5	Pass
				30	3.85	0.200	0.0002	-2.5 to 2.5	Pass
				40	3.85	-0.987	-0.0012	-2.5 to 2.5	Pass
				50	3.85	-0.544	-0.0007	-2.5 to 2.5	Pass
	836.5	50	0	20	3.27	2.103	0.0025	-2.5 to 2.5	Pass
					3.85	1.616	0.0019	-2.5 to 2.5	Pass
					4.43	1.202	0.0014	-2.5 to 2.5	Pass
				-30	3.85	1.101	0.0013	-2.5 to 2.5	Pass
				-20	3.85	0.930	0.0011	-2.5 to 2.5	Pass
				-10	3.85	0.501	0.0006	-2.5 to 2.5	Pass
				0	3.85	0.515	0.0006	-2.5 to 2.5	Pass
				10	3.85	0.758	0.0009	-2.5 to 2.5	Pass
				30	3.85	-0.215	-0.0003	-2.5 to 2.5	Pass
				40	3.85	0.029	0.0000	-2.5 to 2.5	Pass
				50	3.85	-0.229	-0.0003	-2.5 to 2.5	Pass
	844	50	0	20	3.27	1.602	0.0019	-2.5 to 2.5	Pass
					3.85	0.730	0.0009	-2.5 to 2.5	Pass
					4.43	0.687	0.0008	-2.5 to 2.5	Pass
				-30	3.85	0.587	0.0007	-2.5 to 2.5	Pass
				-20	3.85	0.086	0.0001	-2.5 to 2.5	Pass
				-10	3.85	0.615	0.0007	-2.5 to 2.5	Pass
				0	3.85	1.187	0.0014	-2.5 to 2.5	Pass
				10	3.85	1.073	0.0013	-2.5 to 2.5	Pass
				30	3.85	0.715	0.0008	-2.5 to 2.5	Pass
				40	3.85	0.916	0.0011	-2.5 to 2.5	Pass



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				50	3.85	0.844	0.0010	-2.5 to 2.5	Pass	
829	50	0		20	3.27	-0.143	-0.0002	-2.5 to 2.5	Pass	
					3.85	0.429	0.0005	-2.5 to 2.5	Pass	
					4.43	-0.429	-0.0005	-2.5 to 2.5	Pass	
					-30	3.85	0.286	0.0003	-2.5 to 2.5	Pass
				-20	3.85	0.172	0.0002	-2.5 to 2.5	Pass	
					-10	3.85	0.100	0.0001	-2.5 to 2.5	Pass
					0	3.85	0.687	0.0008	-2.5 to 2.5	Pass
					10	3.85	0.458	0.0006	-2.5 to 2.5	Pass
					30	3.85	0.229	0.0003	-2.5 to 2.5	Pass
					40	3.85	0.987	0.0012	-2.5 to 2.5	Pass
				50	3.85	0.229	0.0003	-2.5 to 2.5	Pass	
16QAM	836.5	50	0	20	3.27	-0.515	-0.0006	-2.5 to 2.5	Pass	
					3.85	0.315	0.0004	-2.5 to 2.5	Pass	
					4.43	0.072	0.0001	-2.5 to 2.5	Pass	
					-30	3.85	0.043	0.0001	-2.5 to 2.5	Pass
				-20	3.85	0.458	0.0005	-2.5 to 2.5	Pass	
					-10	3.85	-0.601	-0.0007	-2.5 to 2.5	Pass
					0	3.85	0.229	0.0003	-2.5 to 2.5	Pass
					10	3.85	1.044	0.0012	-2.5 to 2.5	Pass
					30	3.85	-0.343	-0.0004	-2.5 to 2.5	Pass
					40	3.85	-0.029	0.0000	-2.5 to 2.5	Pass
				50	3.85	0.587	0.0007	-2.5 to 2.5	Pass	
844	50	0	20	3.27	-0.257	-0.0003	-2.5 to 2.5	Pass		
					3.85	0.486	0.0006	-2.5 to 2.5	Pass	
					4.43	0.658	0.0008	-2.5 to 2.5	Pass	
					-30	3.85	0.916	0.0011	-2.5 to 2.5	Pass
				-20	3.85	0.744	0.0009	-2.5 to 2.5	Pass	
					-10	3.85	0.200	0.0002	-2.5 to 2.5	Pass
					0	3.85	0.873	0.0010	-2.5 to 2.5	Pass
					10	3.85	1.531	0.0018	-2.5 to 2.5	Pass
					30	3.85	-0.143	-0.0002	-2.5 to 2.5	Pass
					40	3.85	-0.200	-0.0002	-2.5 to 2.5	Pass
				50	3.85	-0.987	-0.0012	-2.5 to 2.5	Pass	

### 3. 99% & 26dB Bandwidth



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### 3.1 Test Result

#### 3.1.1 Band5\_OBW

Band: 5 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		99% Occupied Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.124	/	Pass
		836.5	6	0	1.118	/	Pass
		848.3	6	0	1.124	/	Pass
	16QAM	824.7	6	0	1.117	/	Pass
		836.5	6	0	1.124	/	Pass
		848.3	6	0	1.122	/	Pass
3	QPSK	825.5	15	0	2.744	/	Pass
		836.5	15	0	2.743	/	Pass
		847.5	15	0	2.761	/	Pass
	16QAM	825.5	15	0	2.770	/	Pass
		836.5	15	0	2.746	/	Pass
		847.5	15	0	2.747	/	Pass
5	QPSK	826.5	25	0	4.575	/	Pass
		836.5	25	0	4.567	/	Pass
		846.5	25	0	4.578	/	Pass
	16QAM	826.5	25	0	4.573	/	Pass
		836.5	25	0	4.566	/	Pass
		846.5	25	0	4.595	/	Pass
10	QPSK	829	50	0	9.078	/	Pass
		836.5	50	0	9.056	/	Pass
		844	50	0	9.079	/	Pass
	16QAM	829	50	0	9.091	/	Pass
		836.5	50	0	9.104	/	Pass
		844	50	0	9.080	/	Pass

#### 3.1.2 Band5\_XDB

Band: 5 / NTNV							
Bandwidth (MHz)	Modulation	Frequency (MHz)	RB Allocation		26dB Bandwidth (MHz)		Verdict
			Size	Offset	Result	Limit	
1.4	QPSK	824.7	6	0	1.401	/	Pass



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	16QAM	836.5	6	0	1.415	/	Pass
		848.3	6	0	1.408	/	Pass
		824.7	6	0	1.380	/	Pass
		836.5	6	0	1.409	/	Pass
		848.3	6	0	1.387	/	Pass
3	QPSK	825.5	15	0	3.141	/	Pass
		836.5	15	0	3.164	/	Pass
		847.5	15	0	3.128	/	Pass
	16QAM	825.5	15	0	3.146	/	Pass
		836.5	15	0	3.139	/	Pass
		847.5	15	0	3.110	/	Pass
5	QPSK	826.5	25	0	5.240	/	Pass
		836.5	25	0	5.316	/	Pass
		846.5	25	0	5.281	/	Pass
	16QAM	826.5	25	0	5.238	/	Pass
		836.5	25	0	5.194	/	Pass
		846.5	25	0	5.255	/	Pass
10	QPSK	829	50	0	10.172	/	Pass
		836.5	50	0	10.074	/	Pass
		844	50	0	10.158	/	Pass
	16QAM	829	50	0	10.189	/	Pass
		836.5	50	0	10.256	/	Pass
		844	50	0	10.213	/	Pass



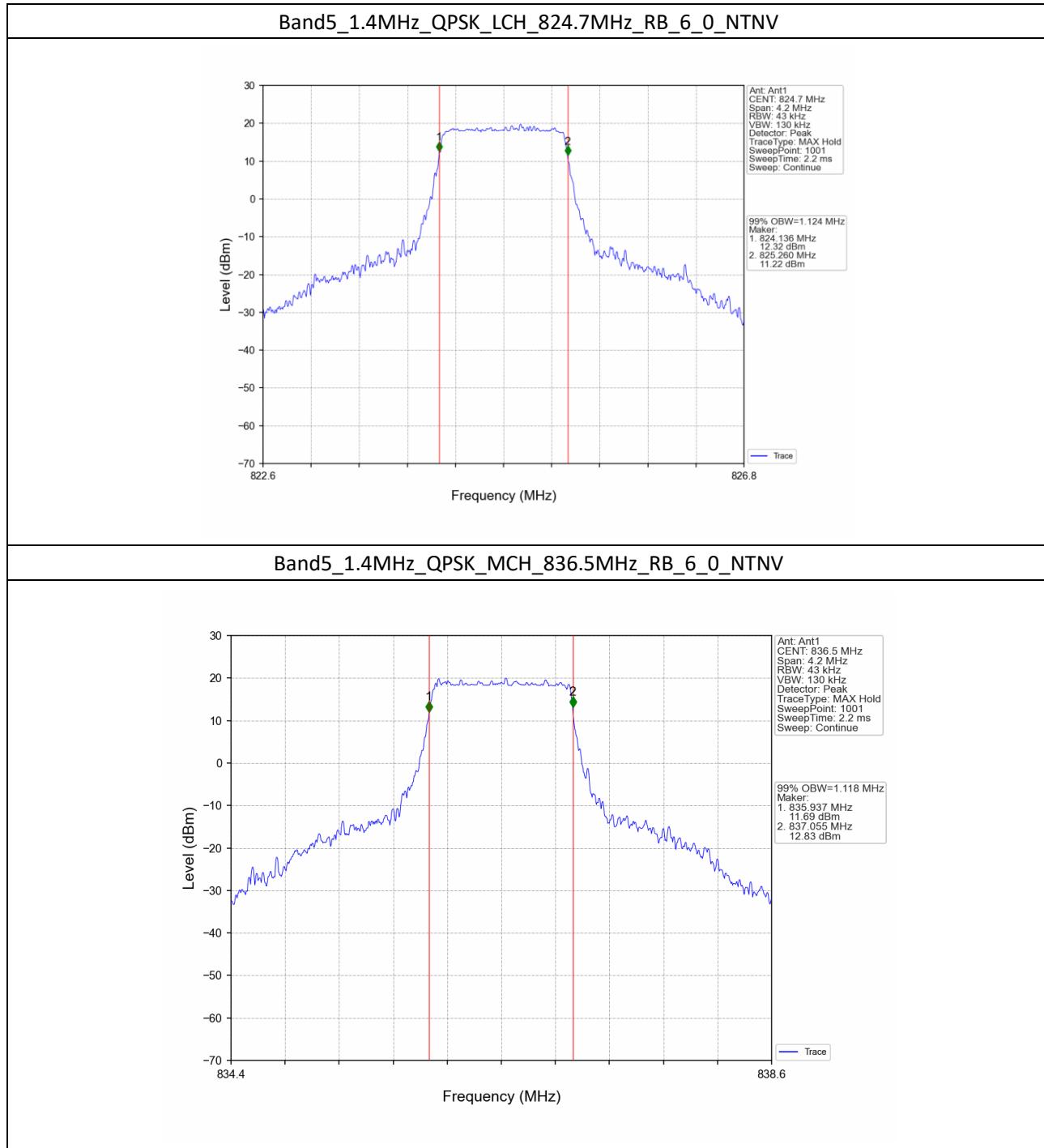
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## 3.2 Test Graph

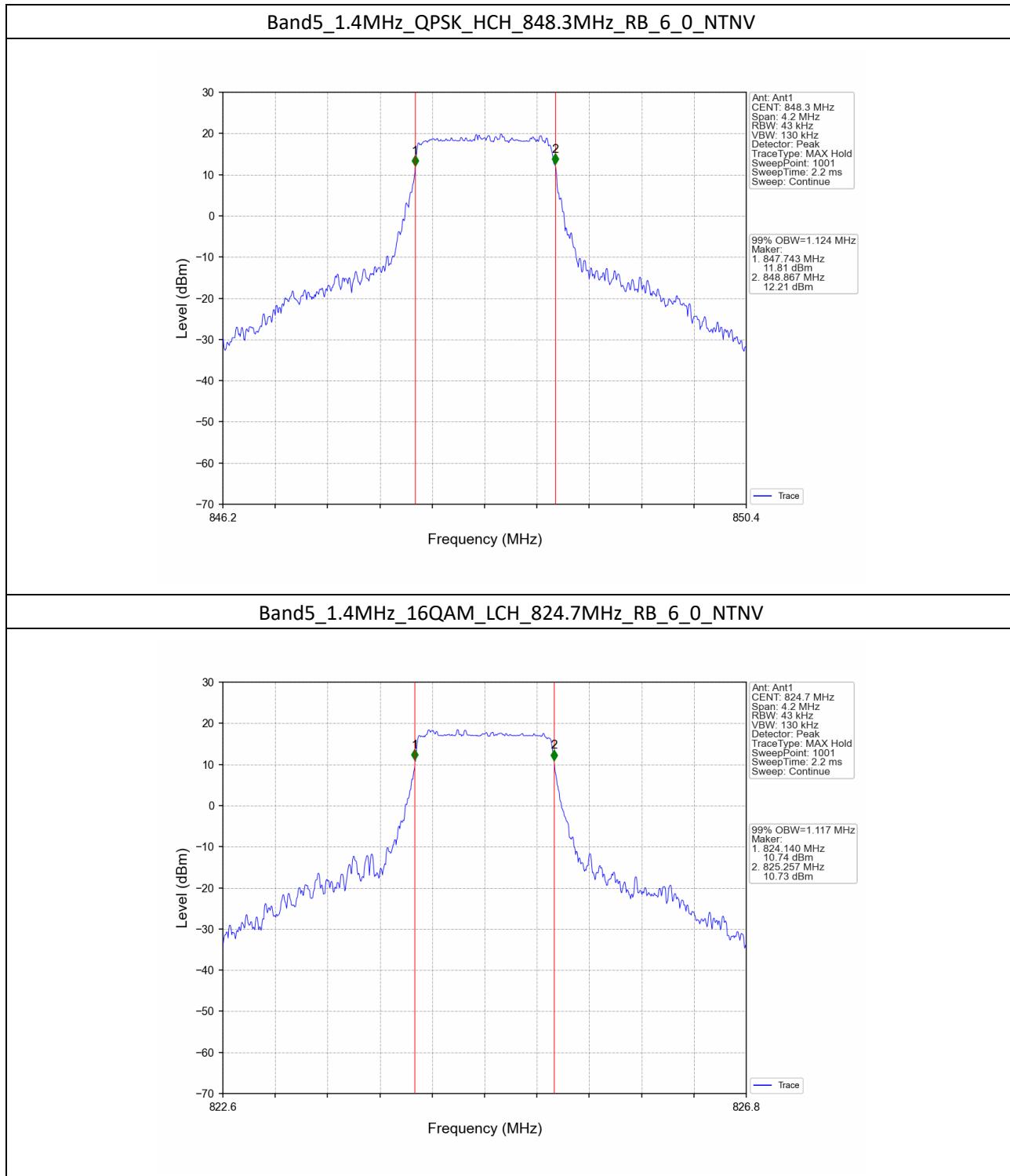
## 3.2.1 Band5\_OBW



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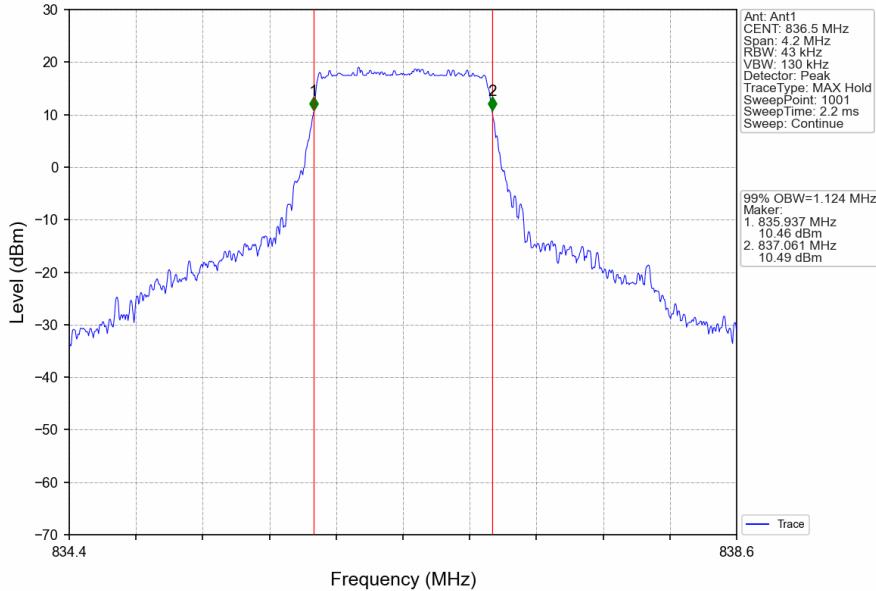
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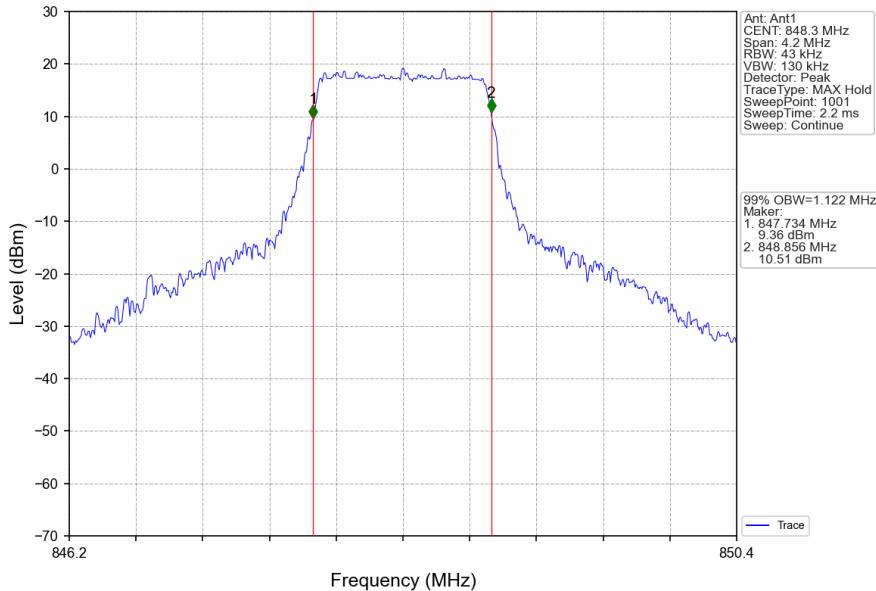
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## Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



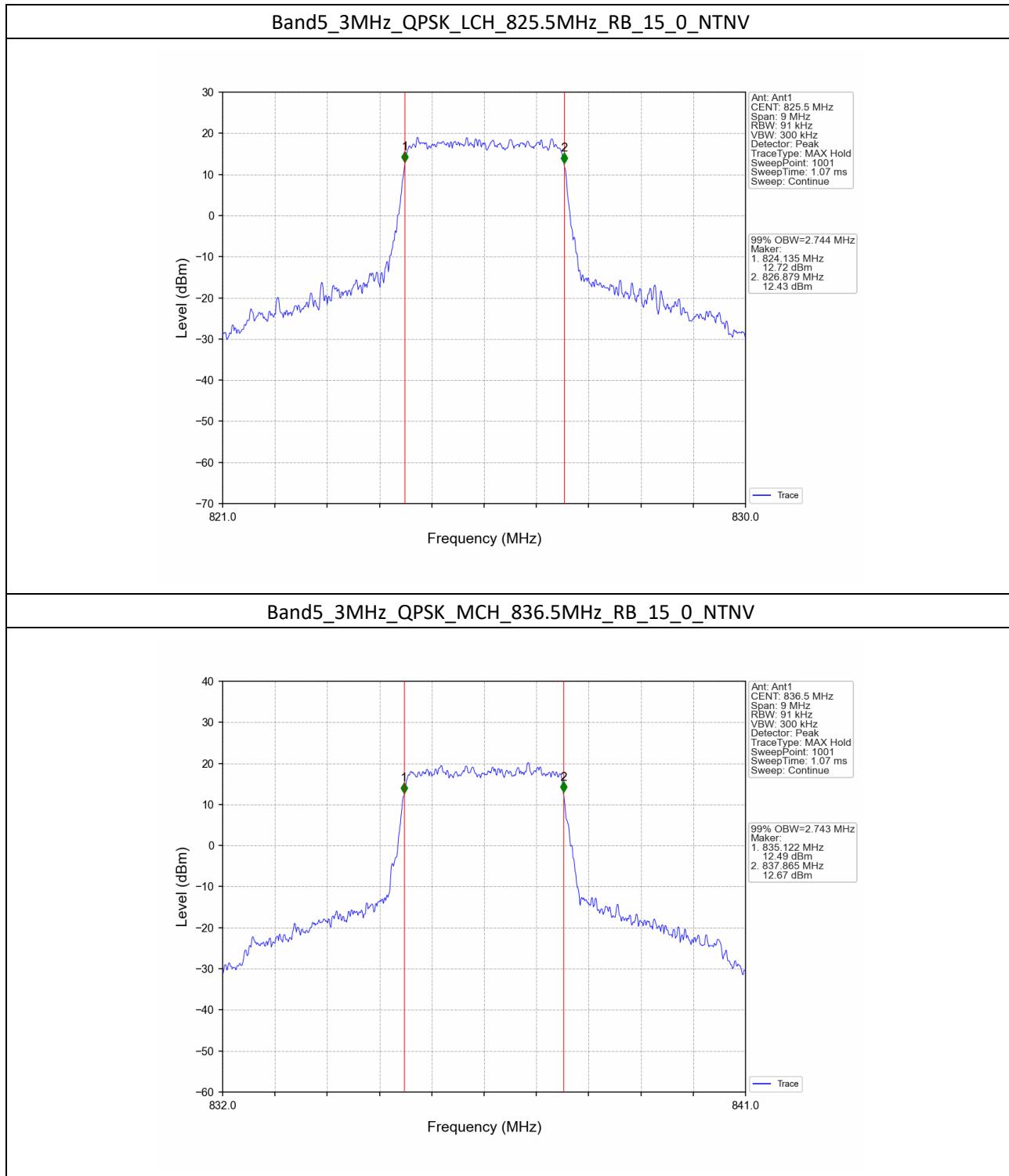
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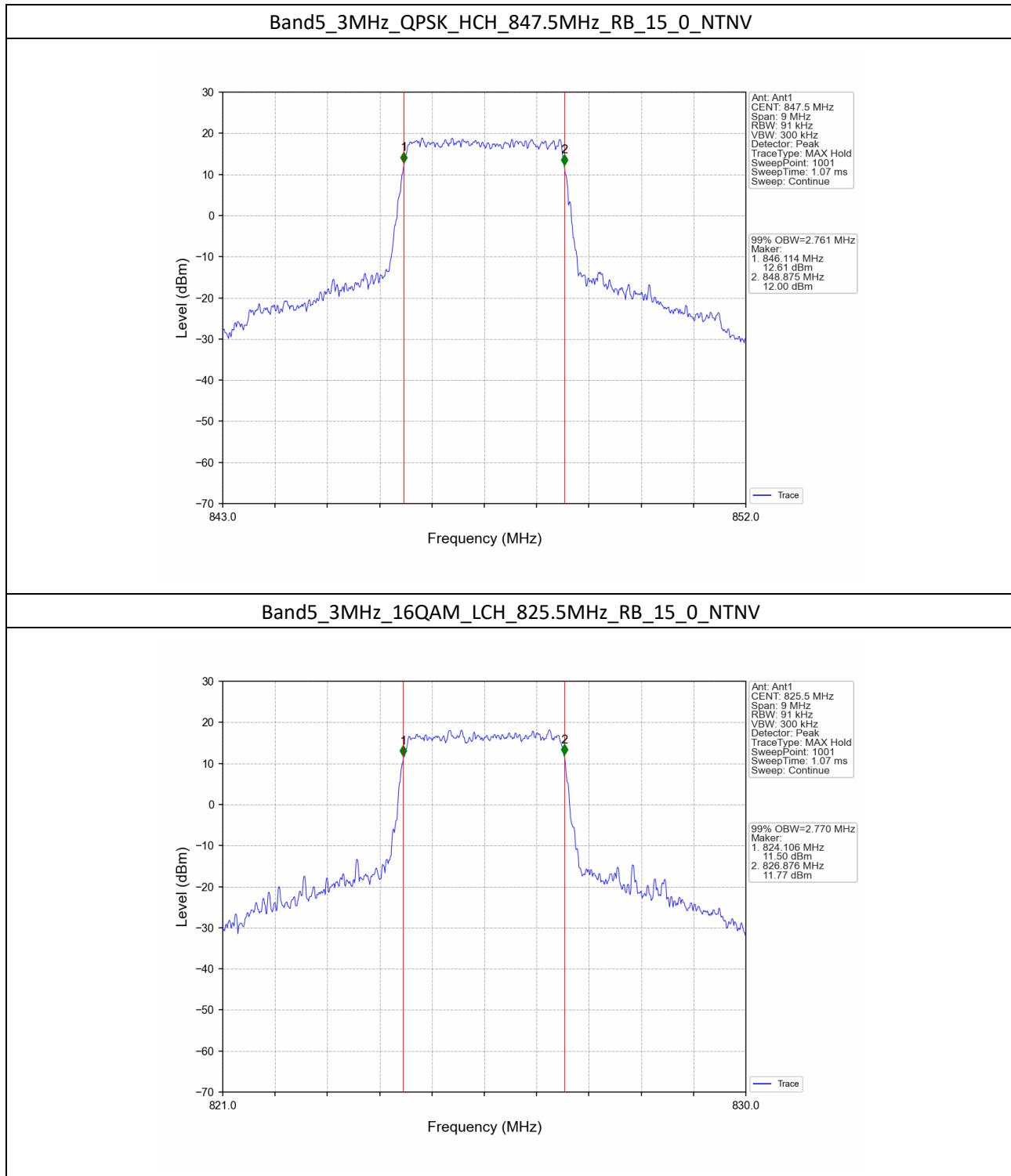


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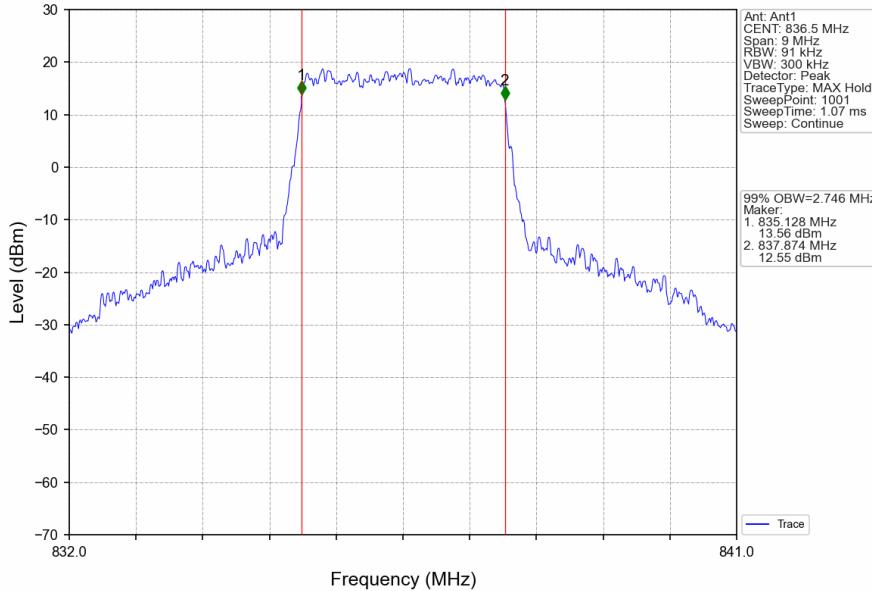


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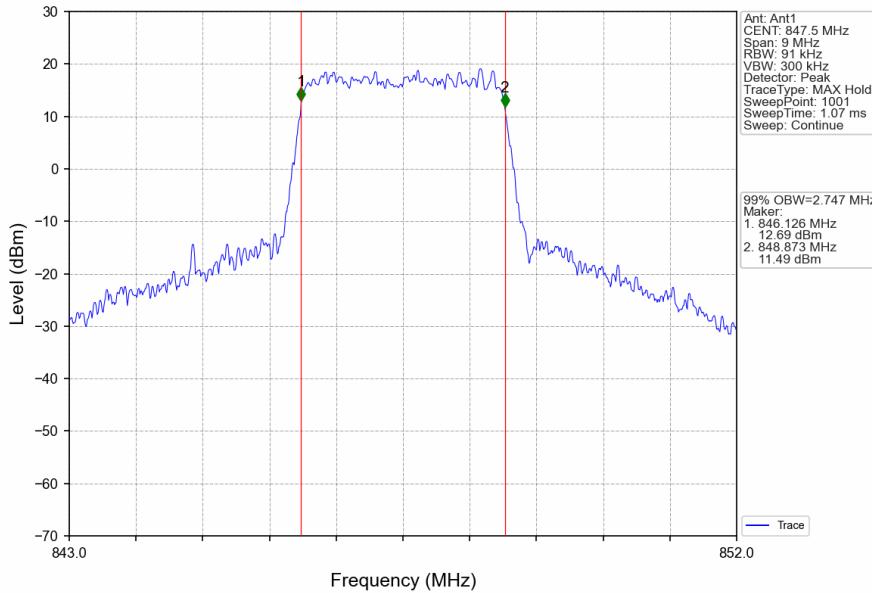
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## Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV



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

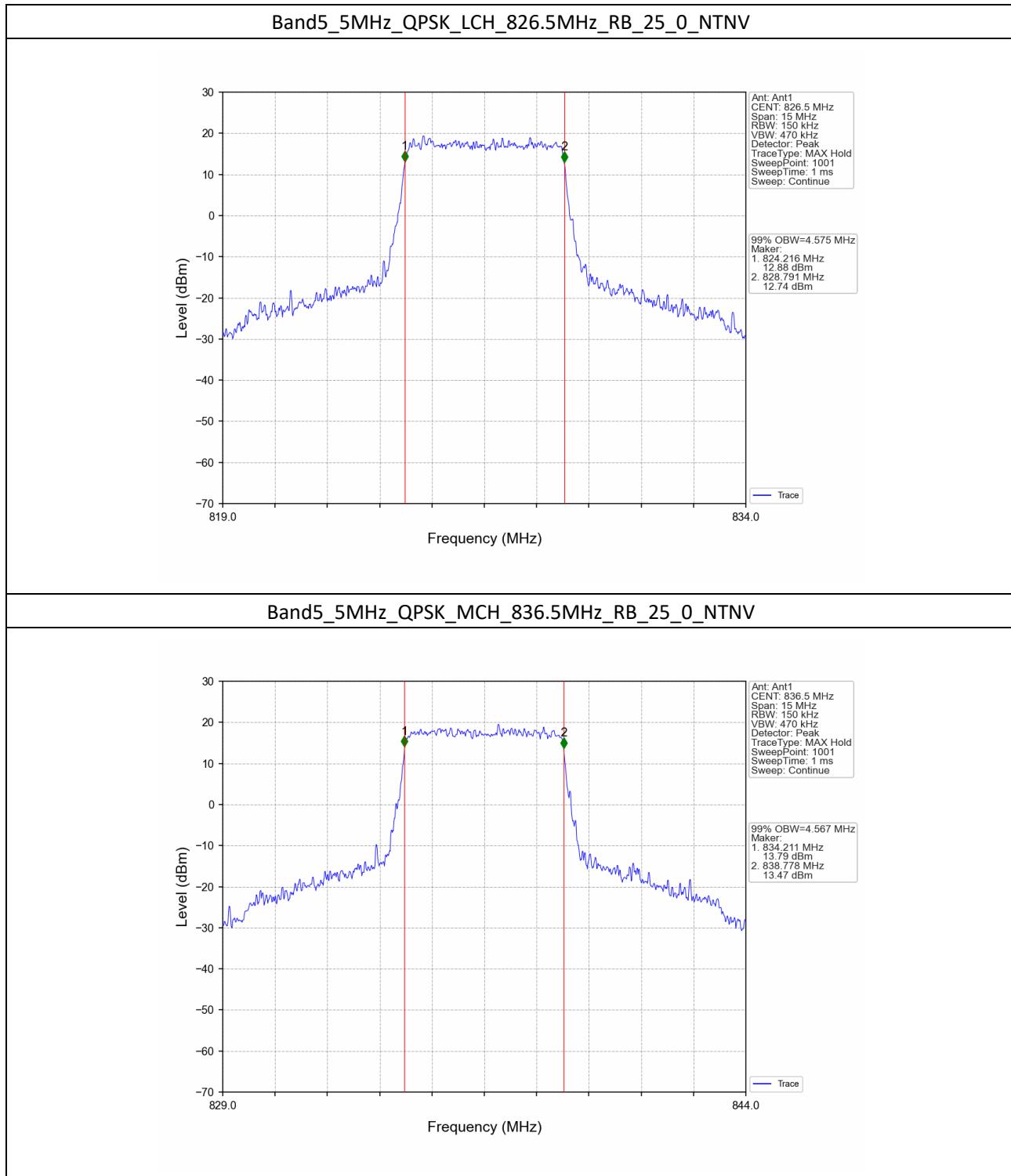


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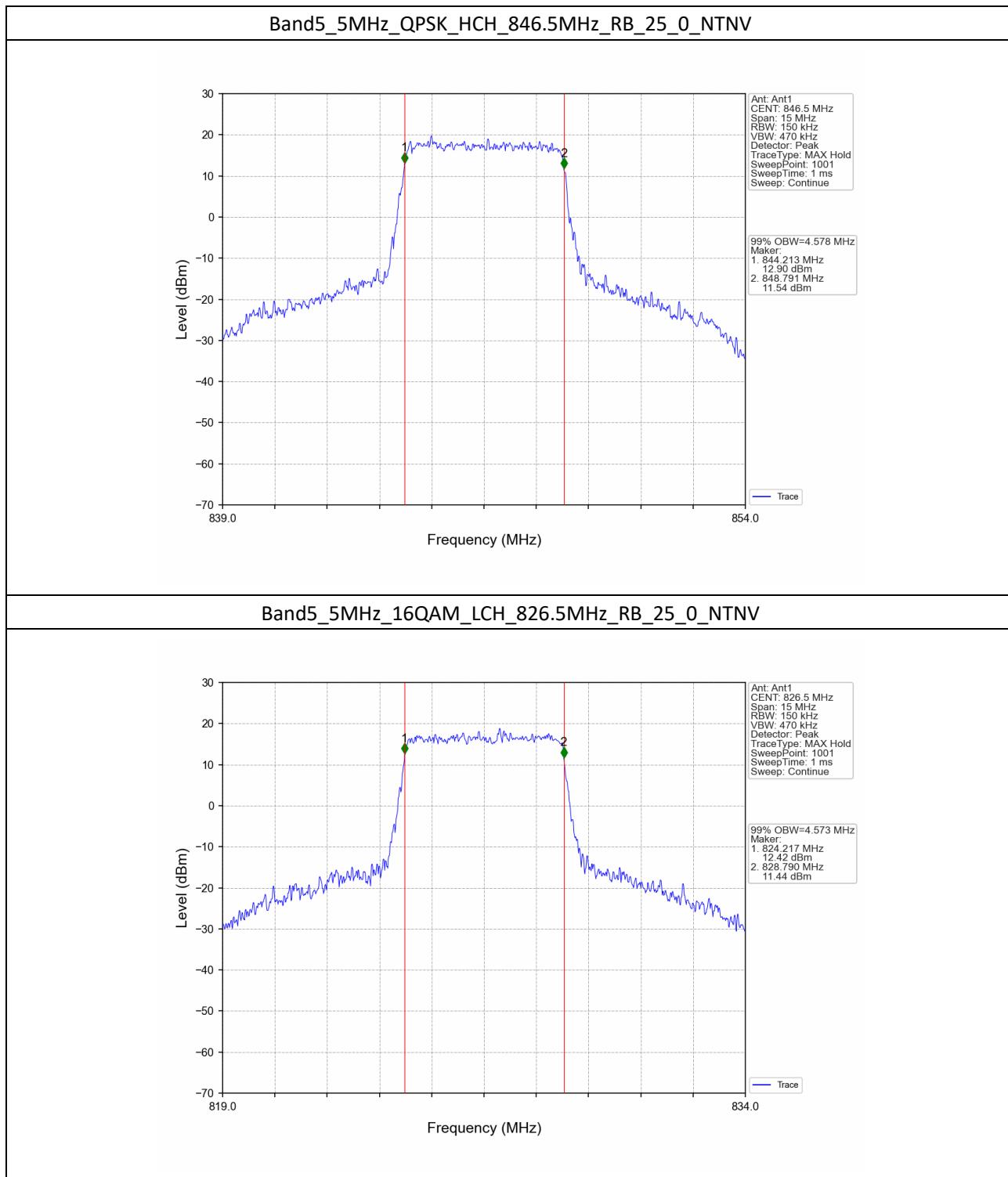
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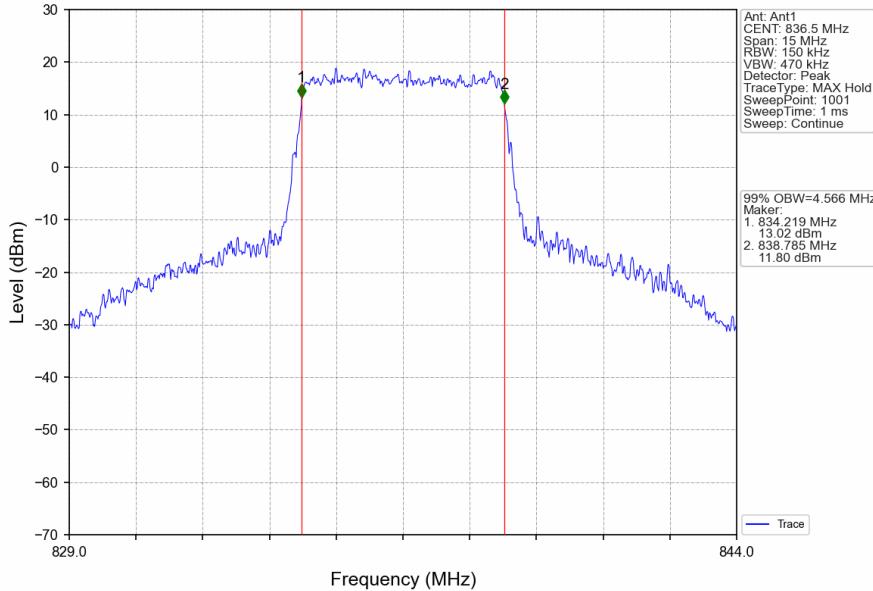
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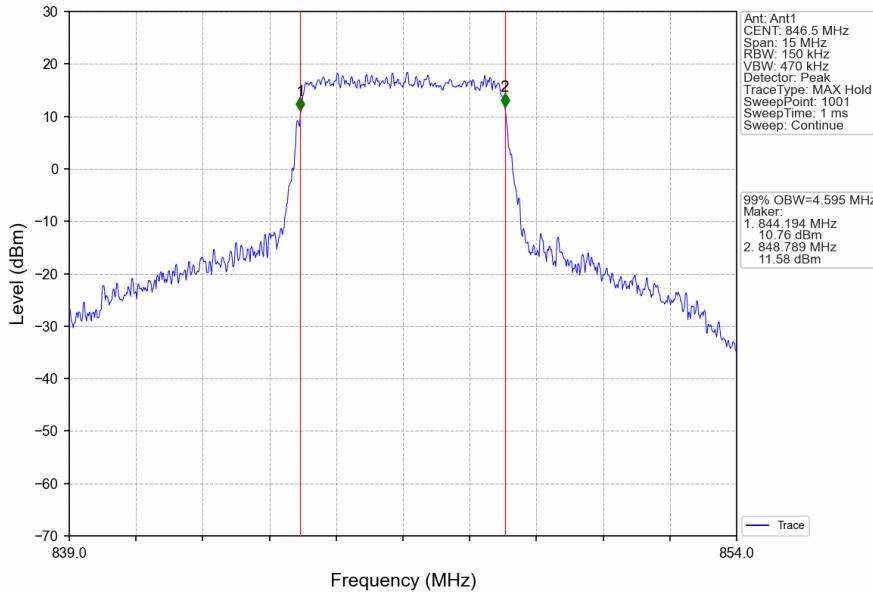
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## Band5\_5MHz\_16QAM\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



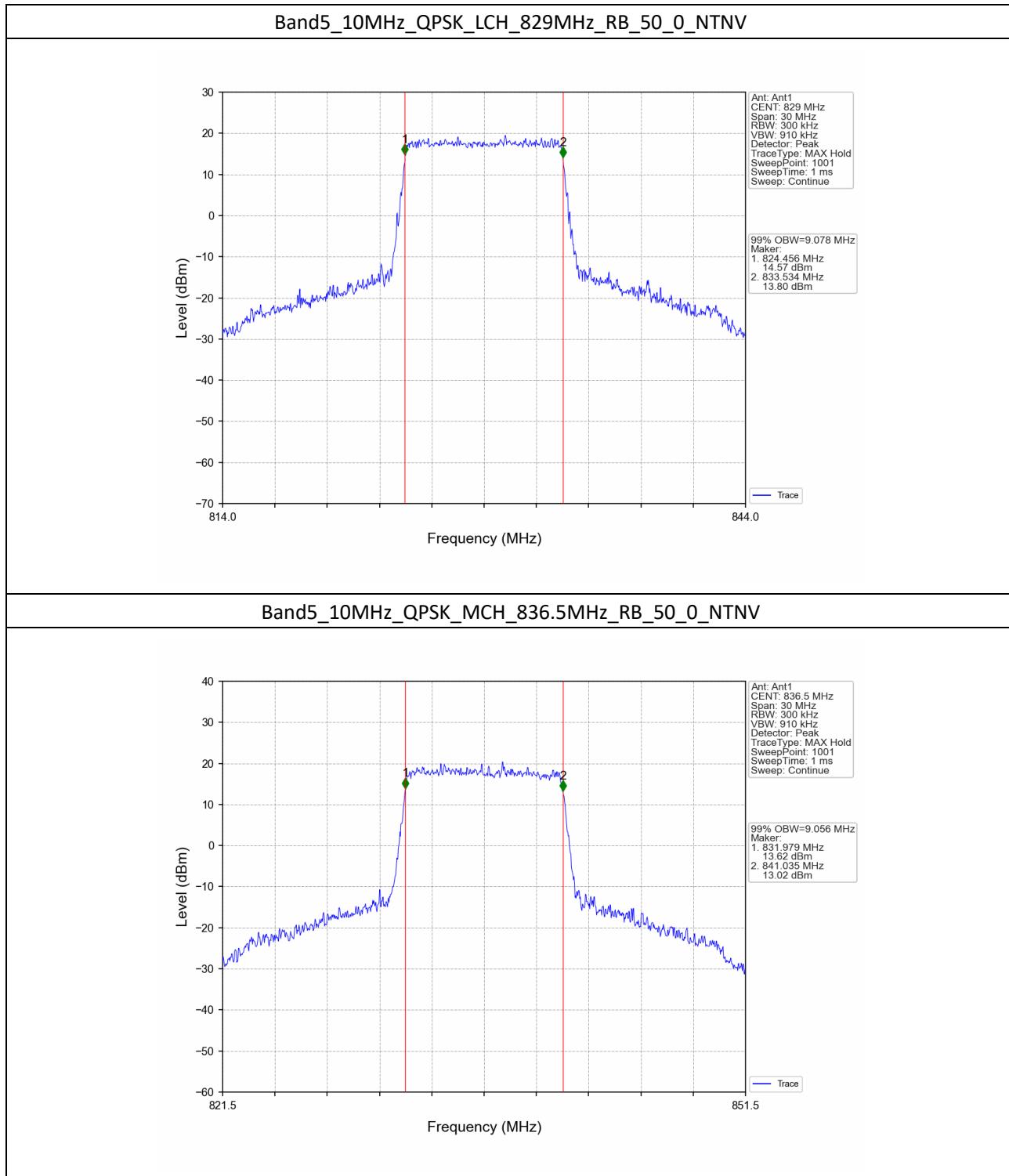
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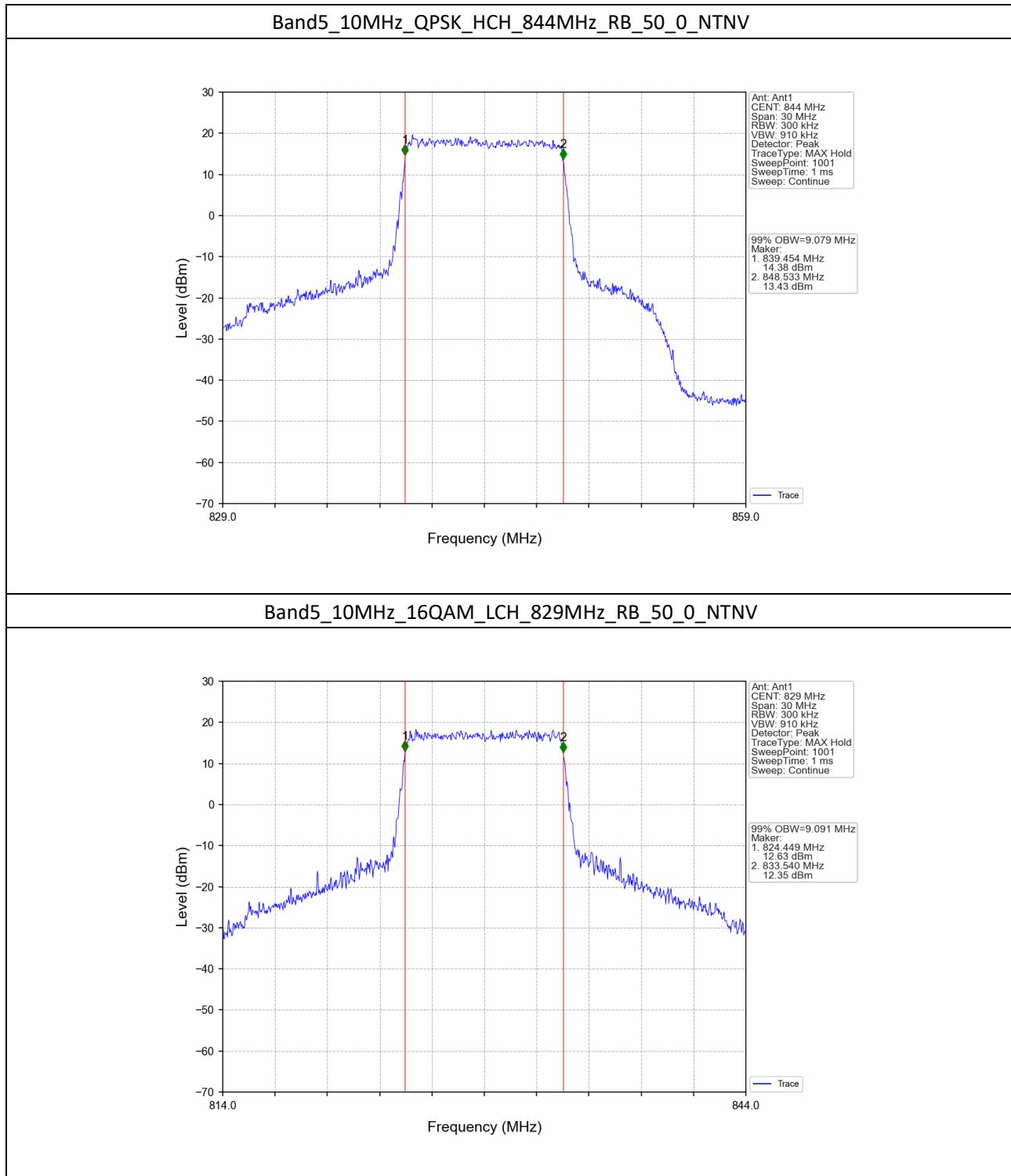
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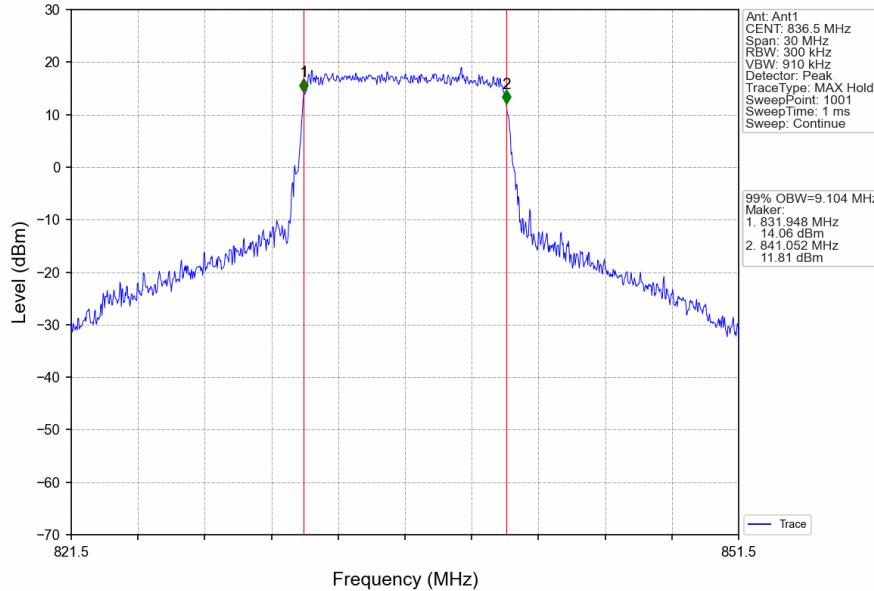
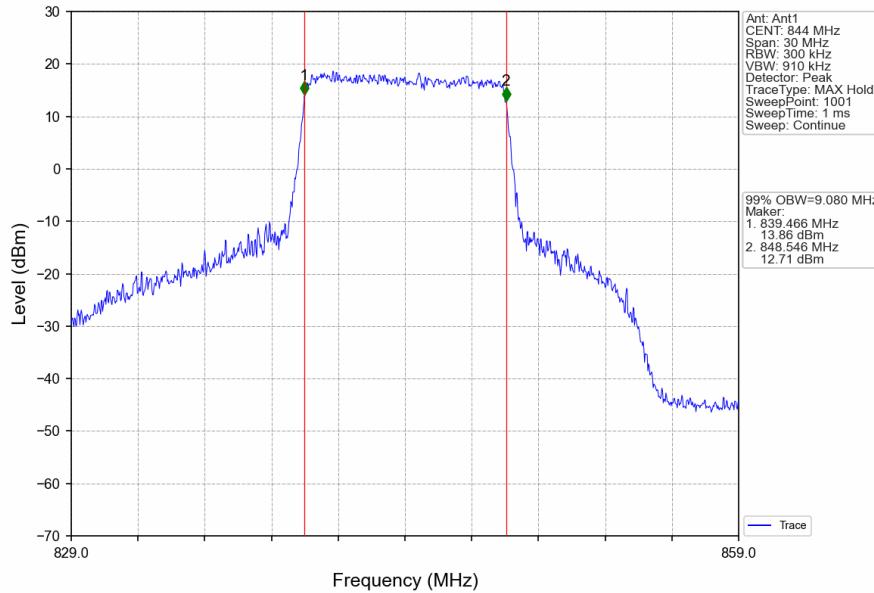
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**Band5\_10MHz\_16QAM\_MCH\_836.5MHz\_RB\_50\_0\_NTNV****Band5\_10MHz\_16QAM\_HCH\_844MHz\_RB\_50\_0\_NTNV**

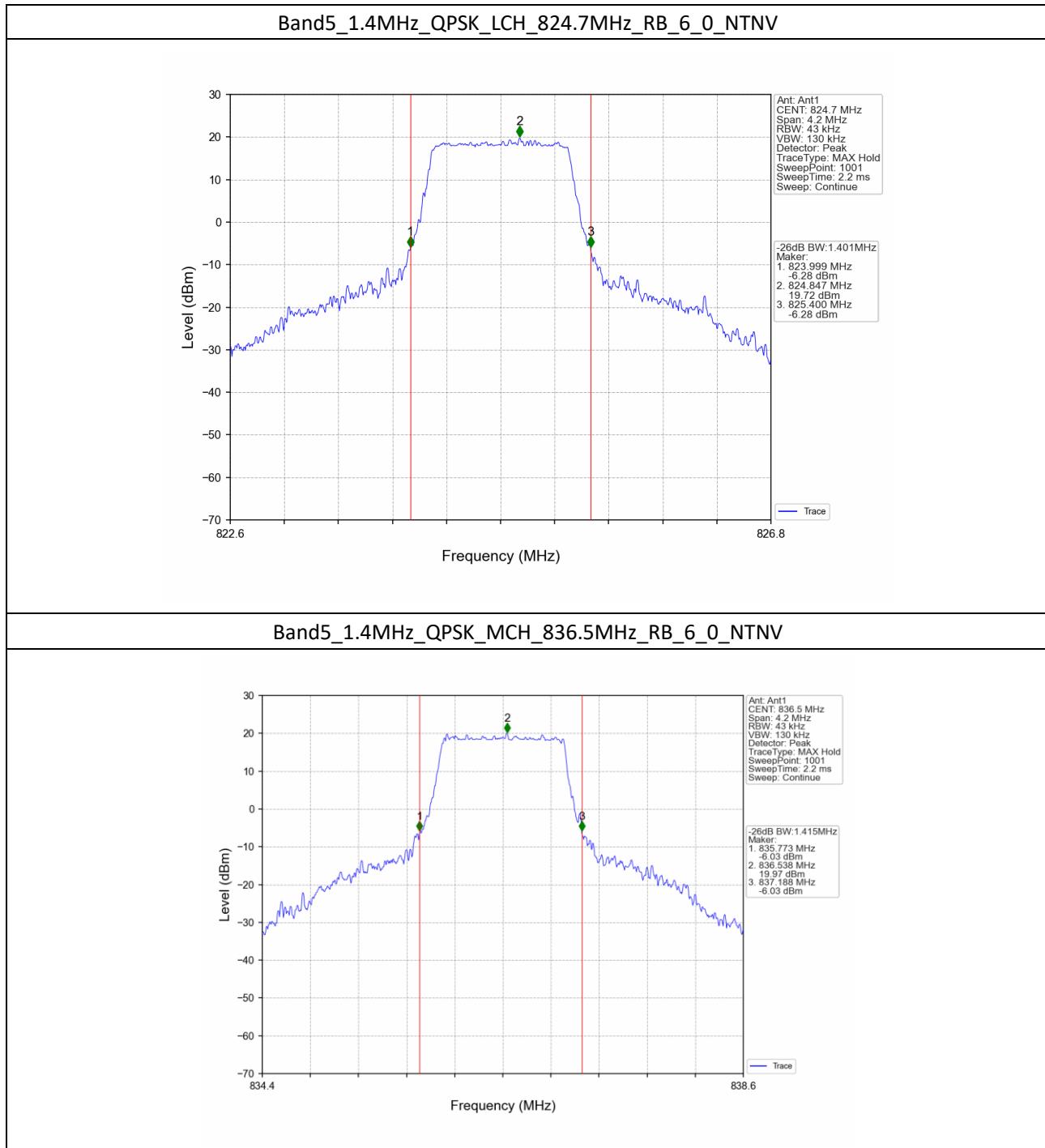
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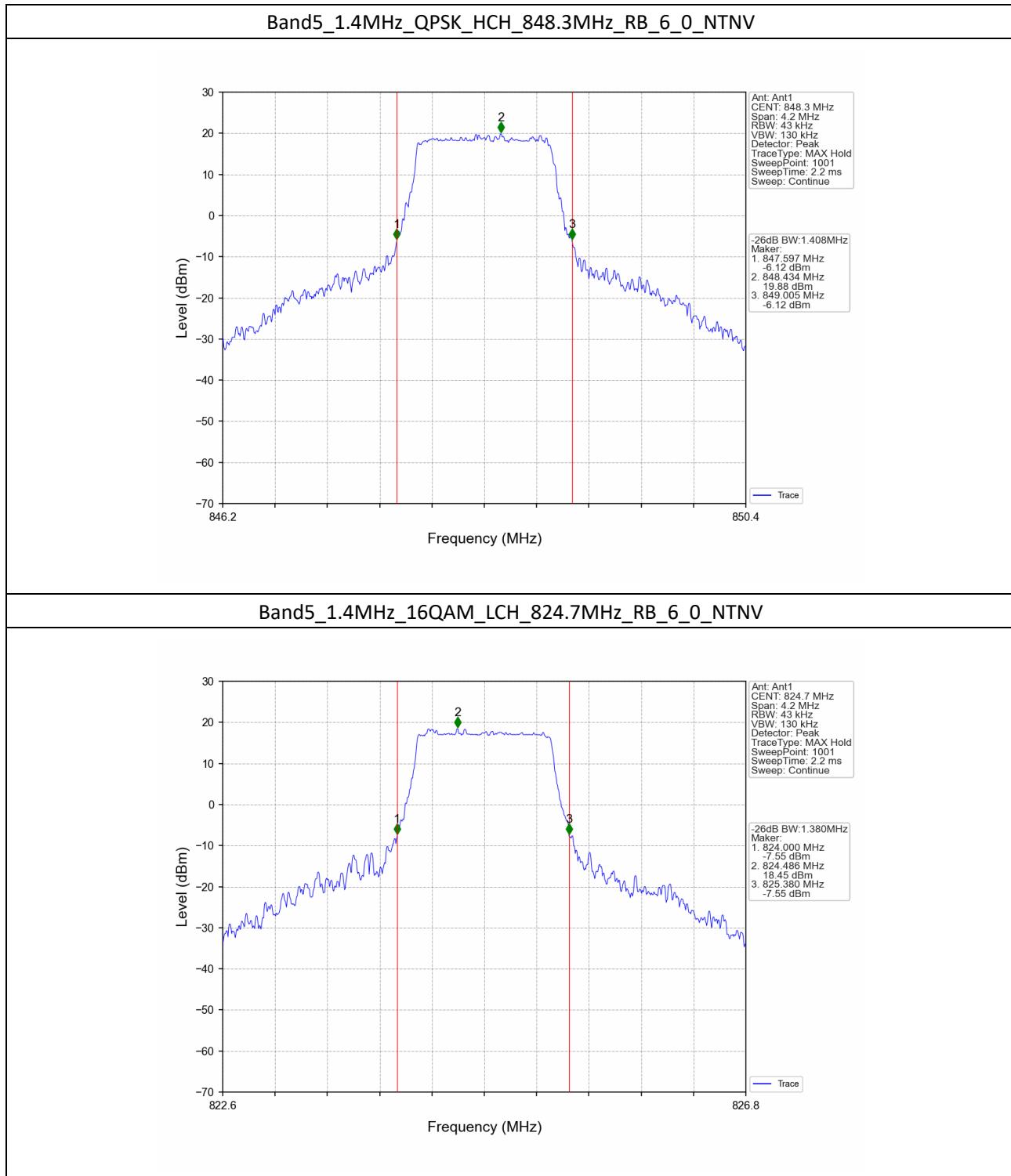
## 3.2.2 Band5\_XDB



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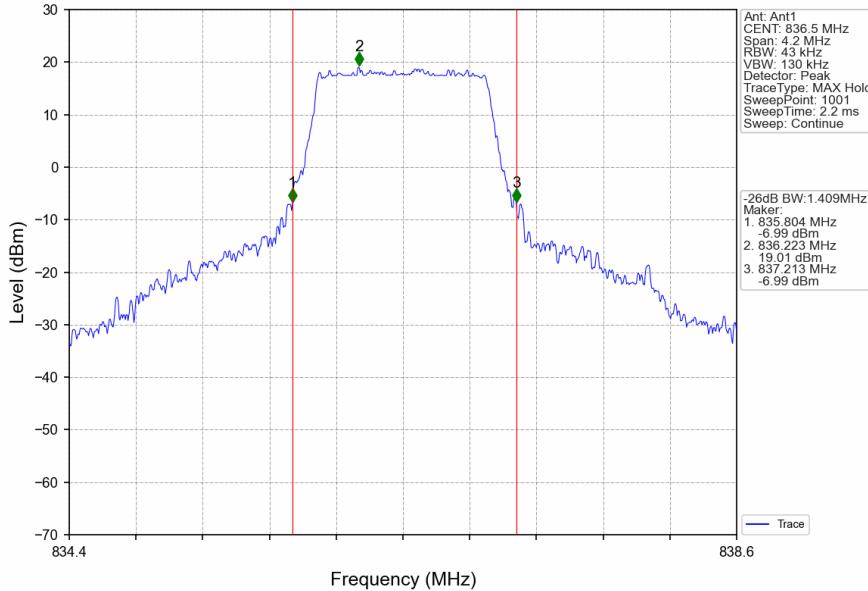


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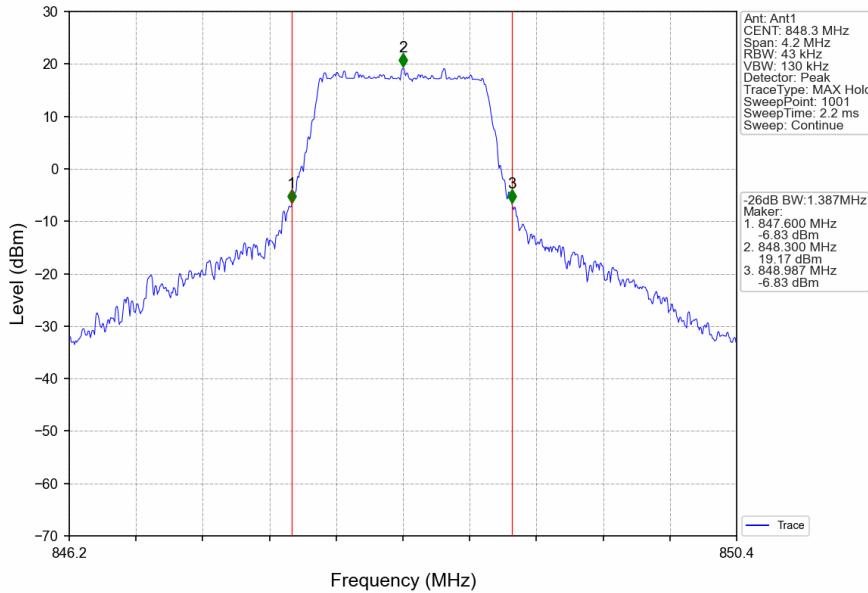
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## Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV



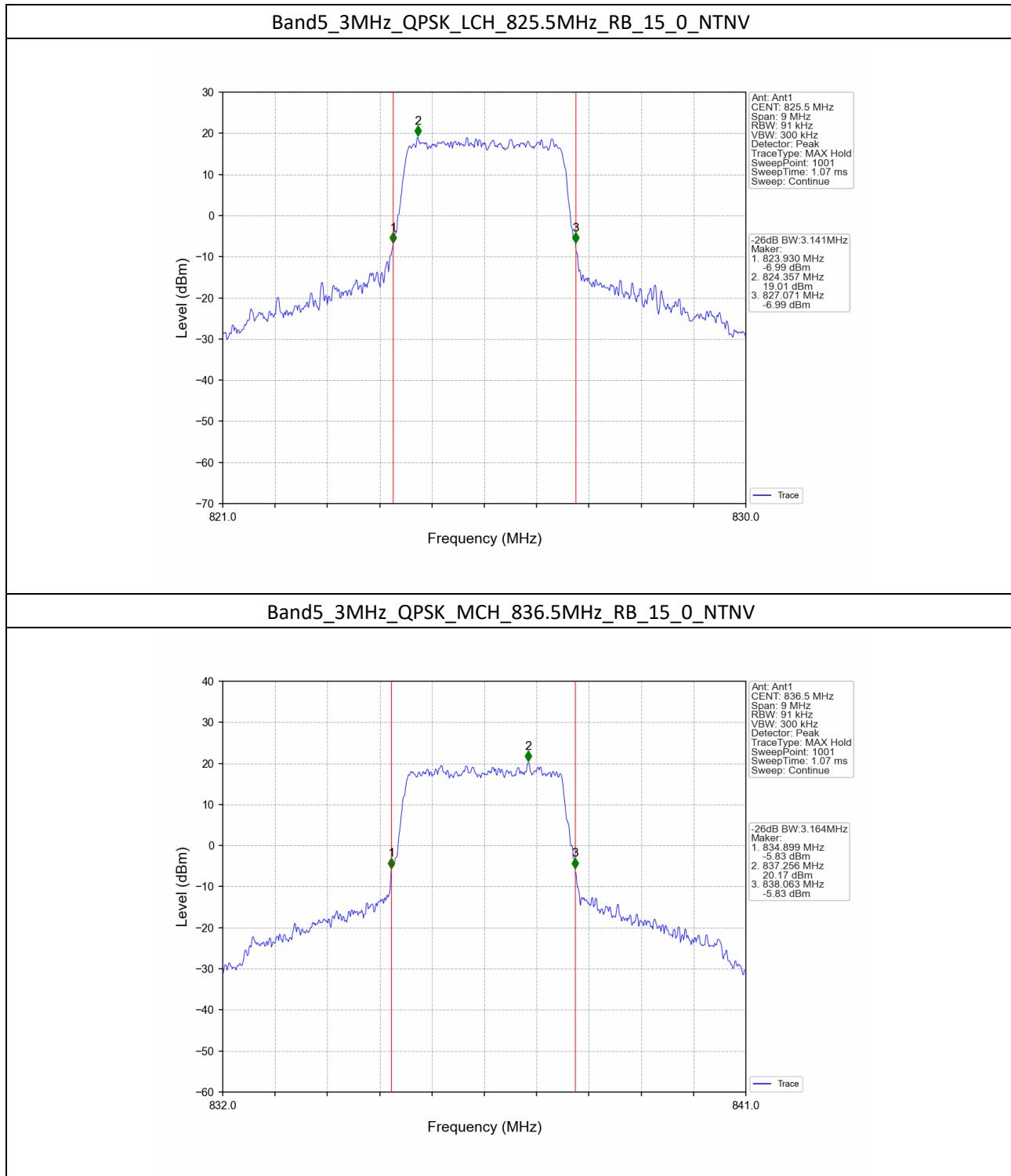
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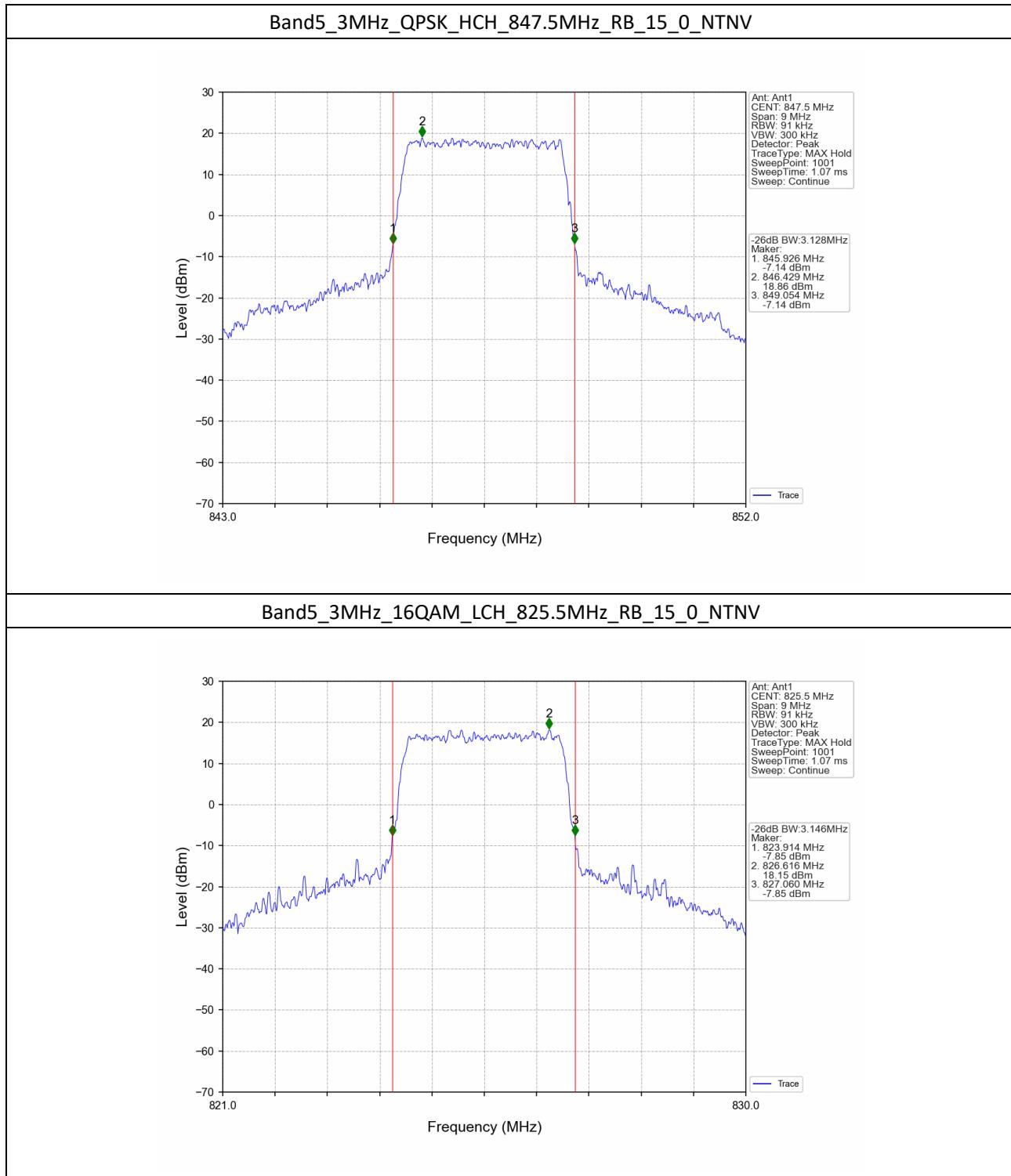
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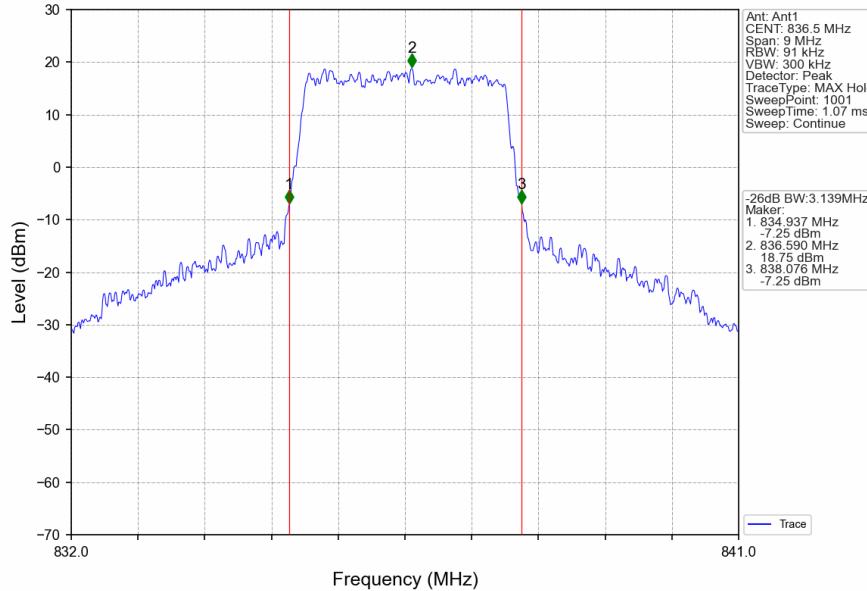
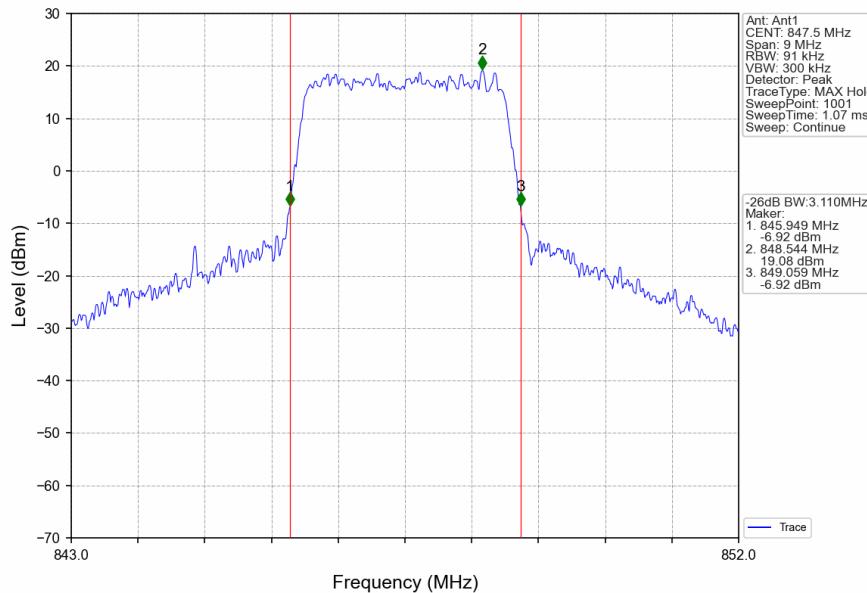
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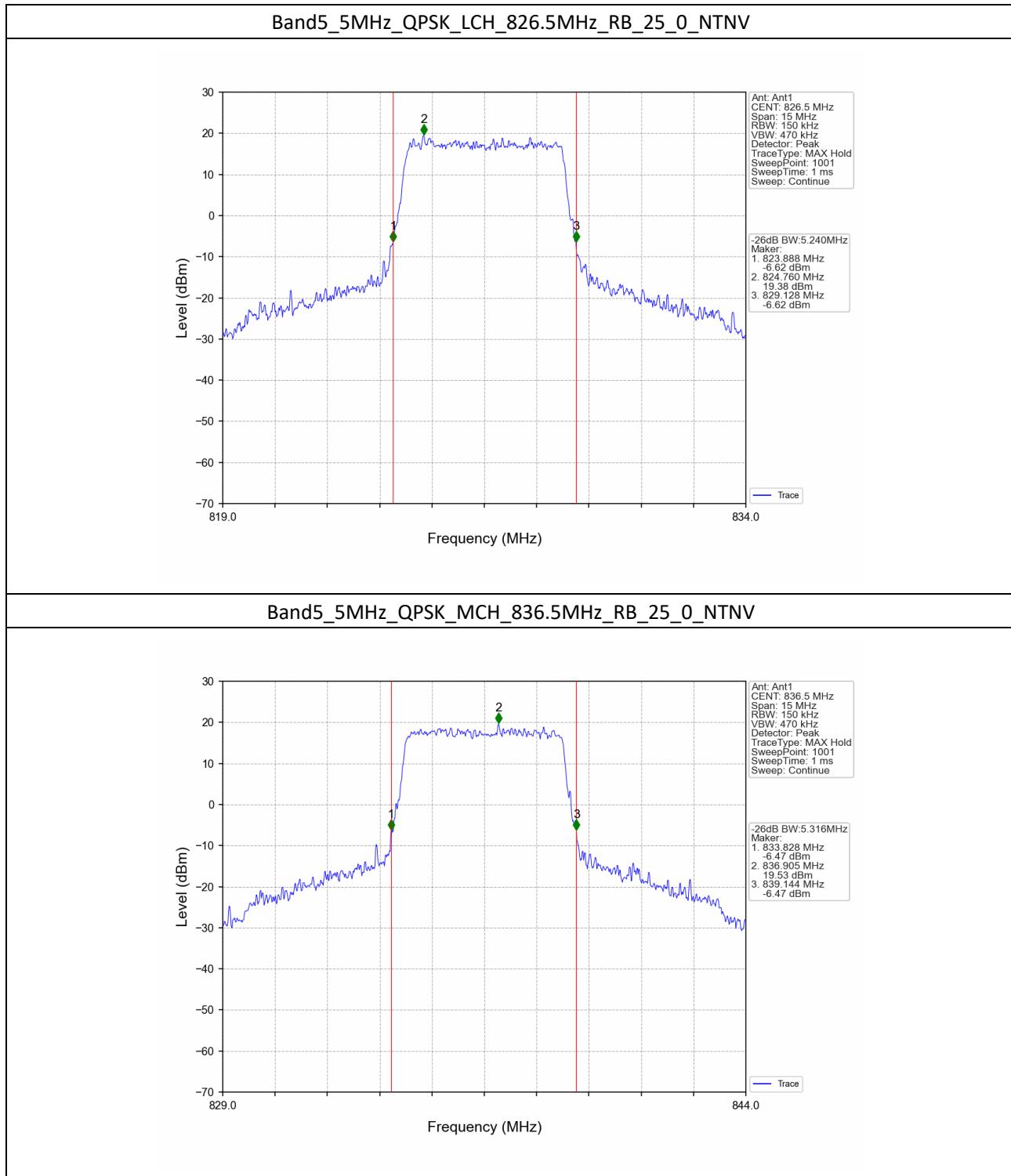
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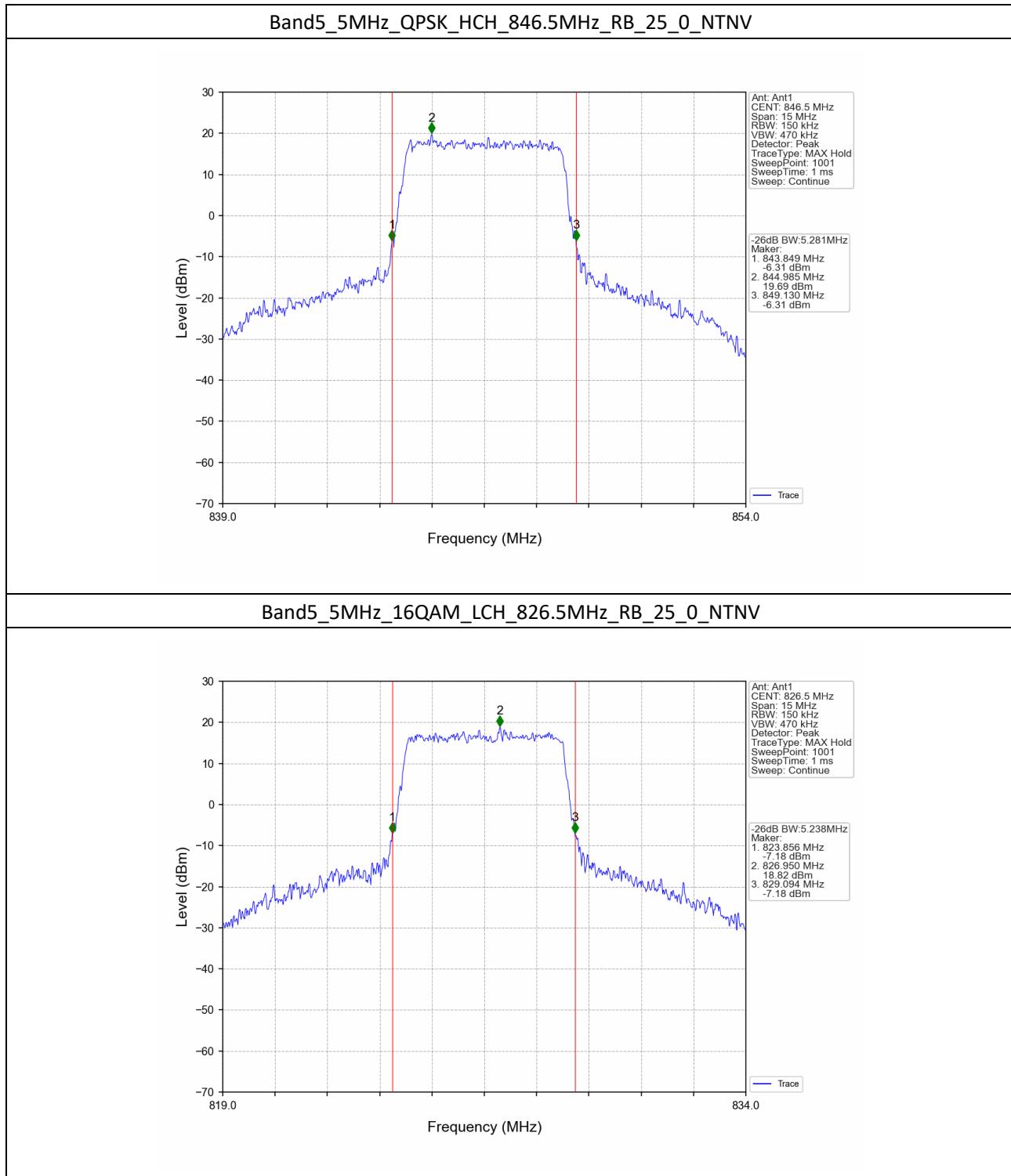


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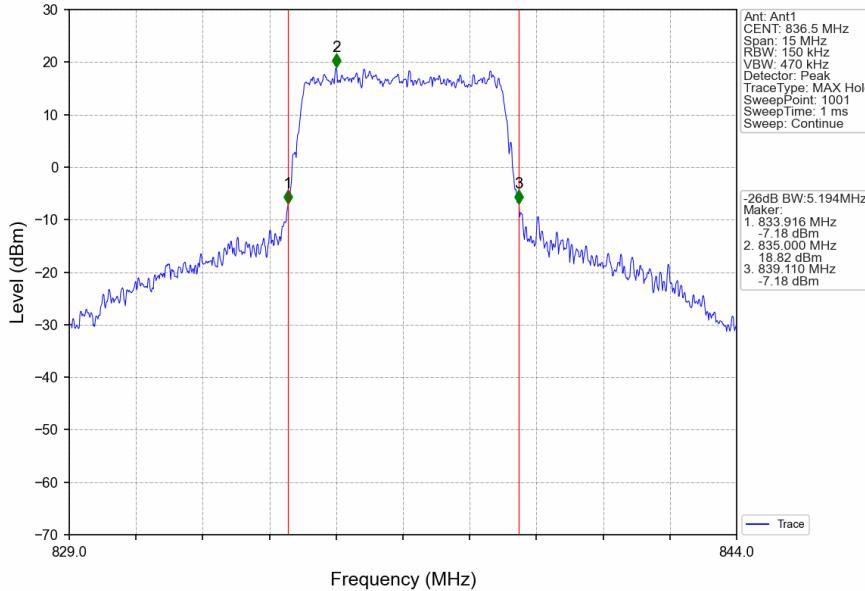


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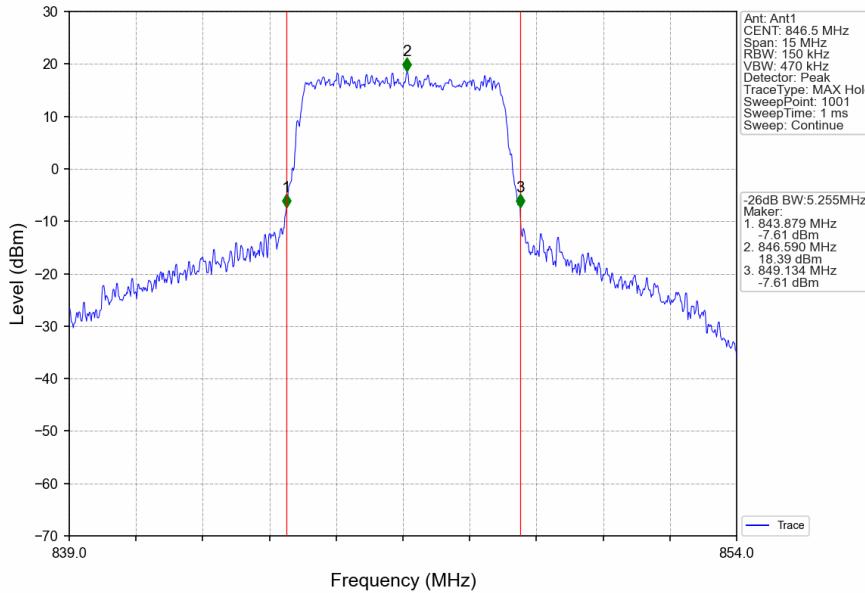
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## Band5\_5MHz\_16QAM\_MCH\_836.5MHz\_RB\_25\_0\_NTNV



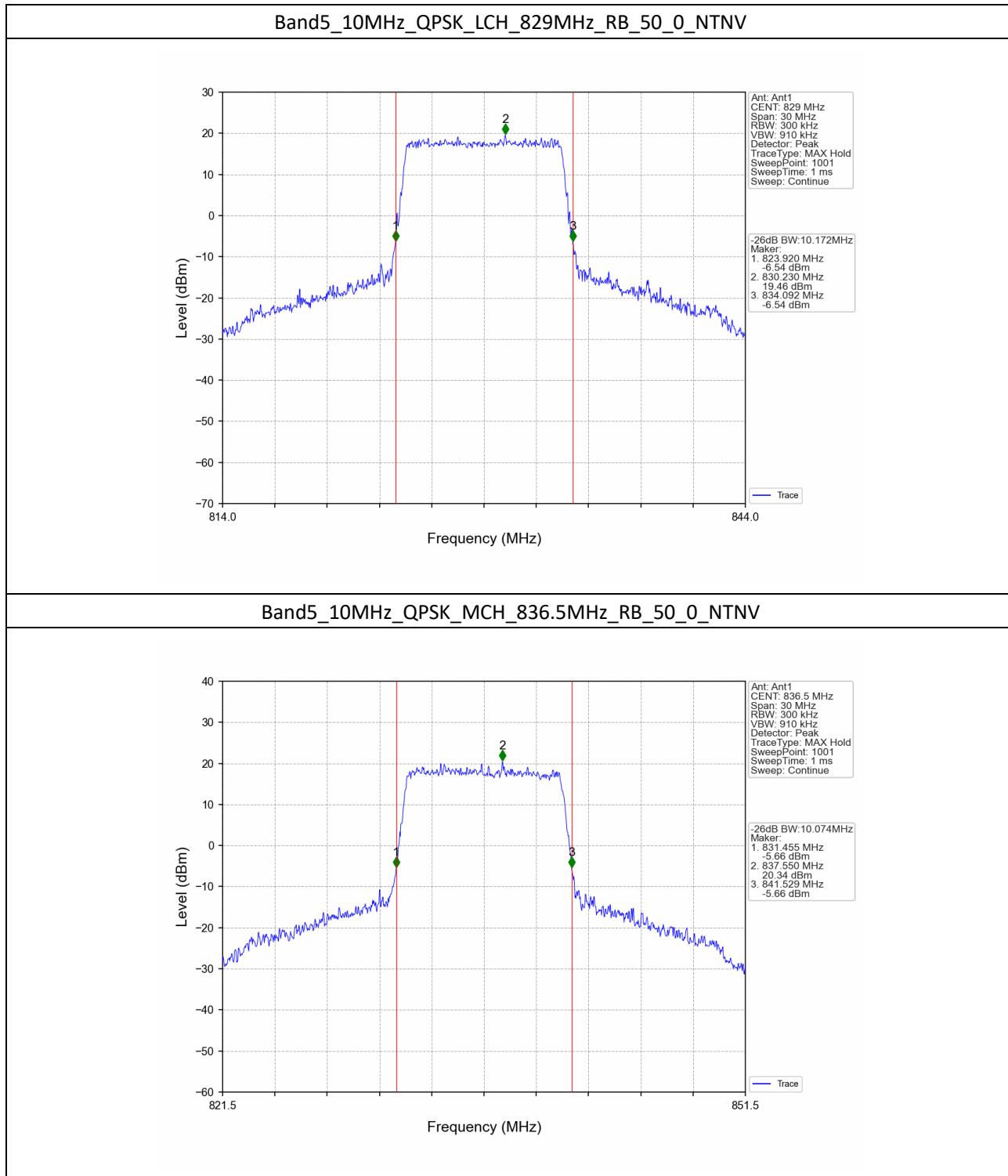
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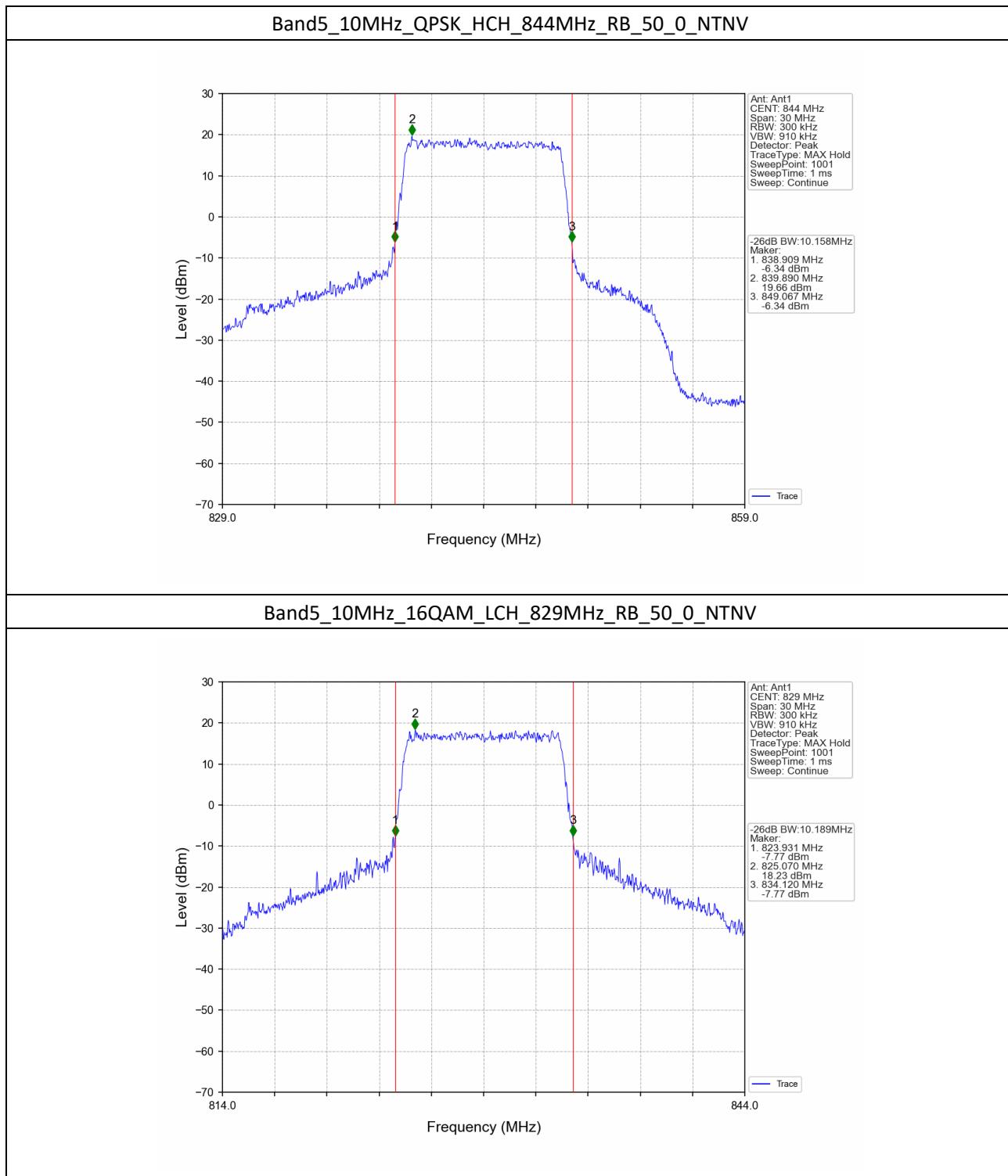
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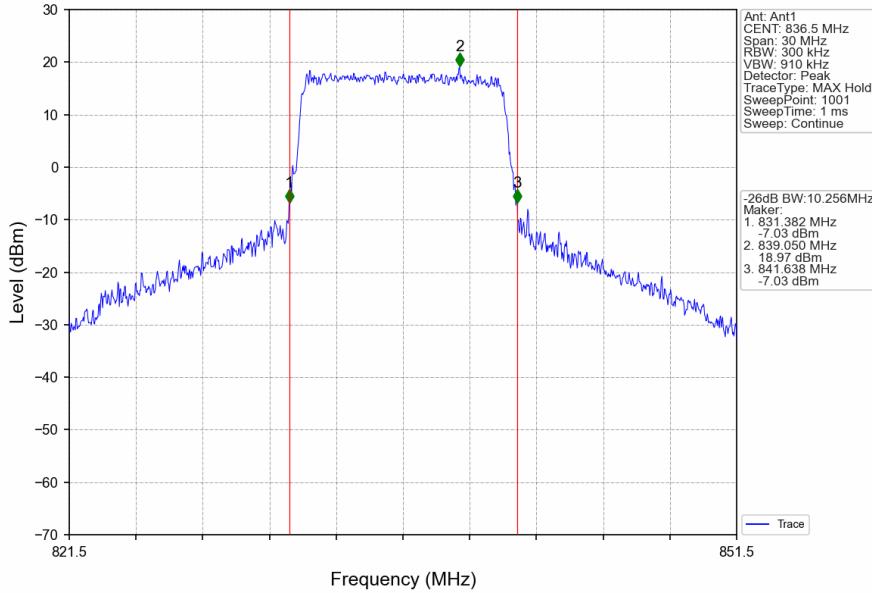
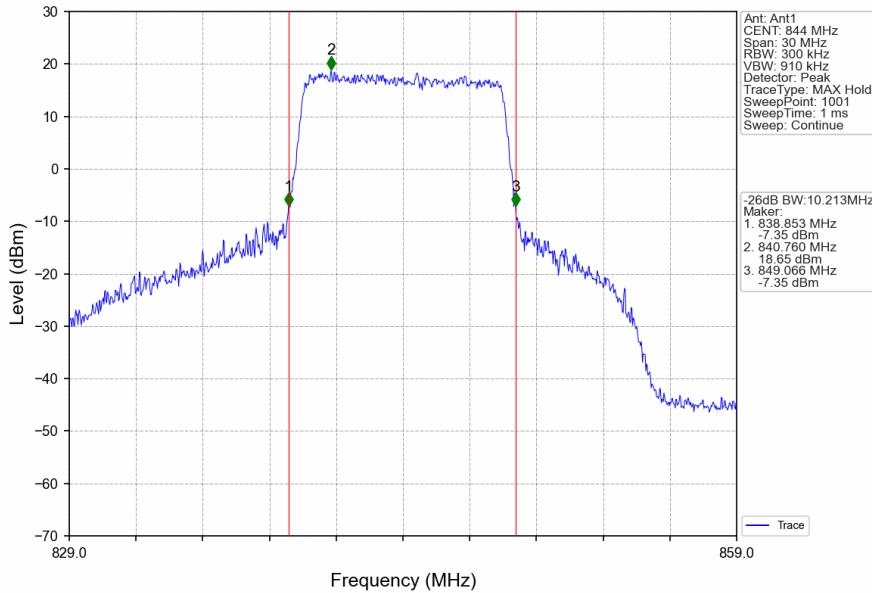
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**Band5\_10MHz\_16QAM\_MCH\_836.5MHz\_RB\_50\_0\_NTNV****Band5\_10MHz\_16QAM\_HCH\_844MHz\_RB\_50\_0\_NTNV**

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## 4. Peak-Average Ratio

### 4.1 Test Result

#### 4.1.1 B5\_1.4MHz

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	4.41	<=13	Pass
	836.5	6	0	4.19	<=13	Pass
	848.3	6	0	4.19	<=13	Pass
16QAM	824.7	6	0	5.31	<=13	Pass
	836.5	6	0	5.16	<=13	Pass
	848.3	6	0	5.11	<=13	Pass

#### 4.1.2 B5\_3MHz

Band: 5 / Bandwidth: 3MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	825.5	15	0	4.60	<=13	Pass
	836.5	15	0	4.39	<=13	Pass
	847.5	15	0	4.45	<=13	Pass
16QAM	825.5	15	0	5.49	<=13	Pass
	836.5	15	0	5.29	<=13	Pass
	847.5	15	0	5.35	<=13	Pass

#### 4.1.3 B5\_5MHz

Band: 5 / Bandwidth: 5MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	826.5	25	0	4.96	<=13	Pass
	836.5	25	0	4.78	<=13	Pass
	846.5	25	0	4.90	<=13	Pass
16QAM	826.5	25	0	5.80	<=13	Pass



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	836.5	25	0	5.59	<=13	Pass
	846.5	25	0	5.75	<=13	Pass

## 4.1.4 B5\_10MHz

Band: 5 / Bandwidth: 10MHz / NTV						
Modulation	Frequency (MHz)	RB Allocation		Peak-Average Ratio (dB)		Verdict
		Size	Offset	Result	Limit	
QPSK	829	50	0	5.03	<=13	Pass
	836.5	50	0	4.84	<=13	Pass
	844	50	0	4.96	<=13	Pass
16QAM	829	50	0	5.83	<=13	Pass
	836.5	50	0	5.65	<=13	Pass
	844	50	0	5.78	<=13	Pass



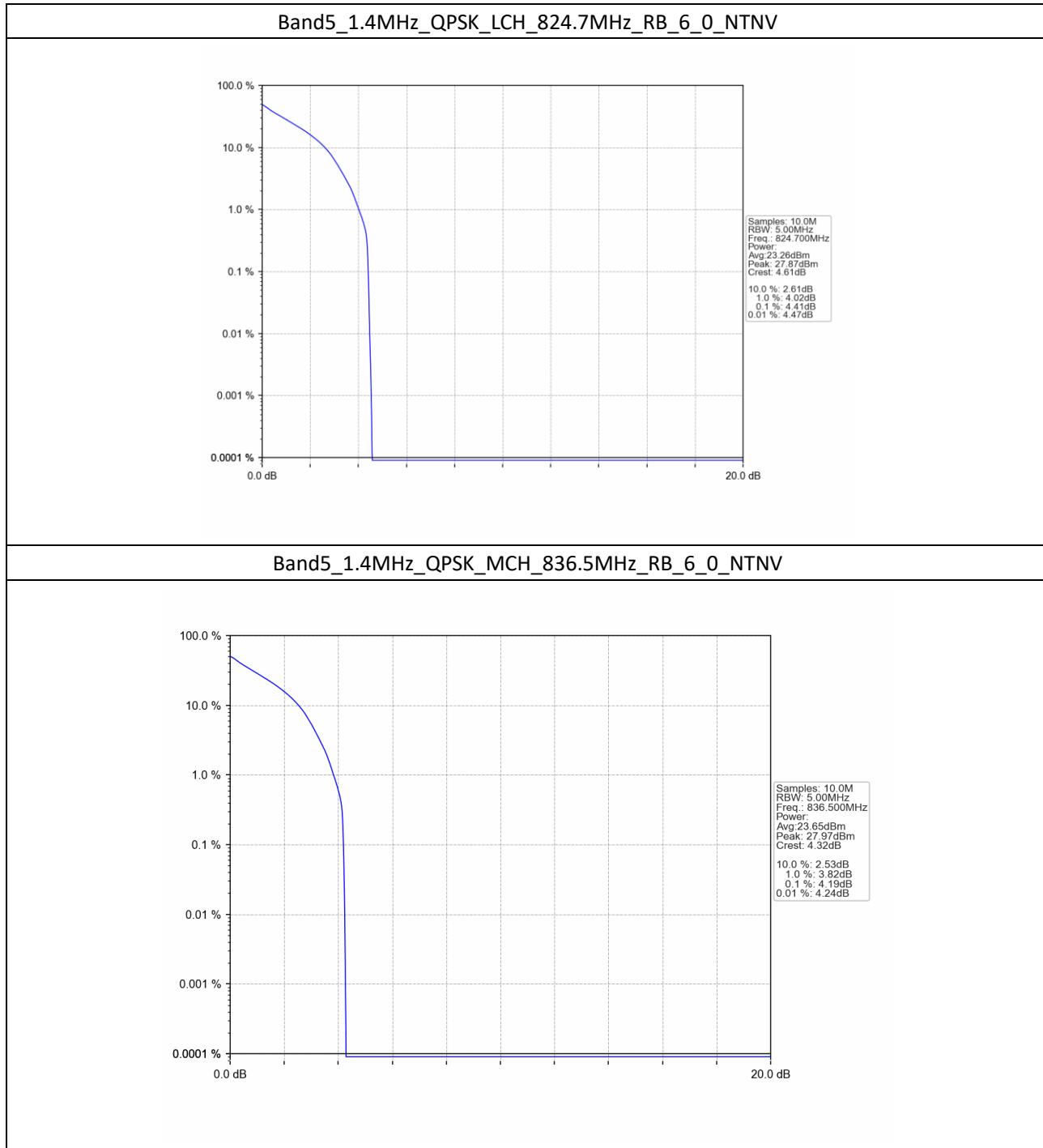
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## 4.2 Test Graph

### 4.2.1 B5\_1.4MHz

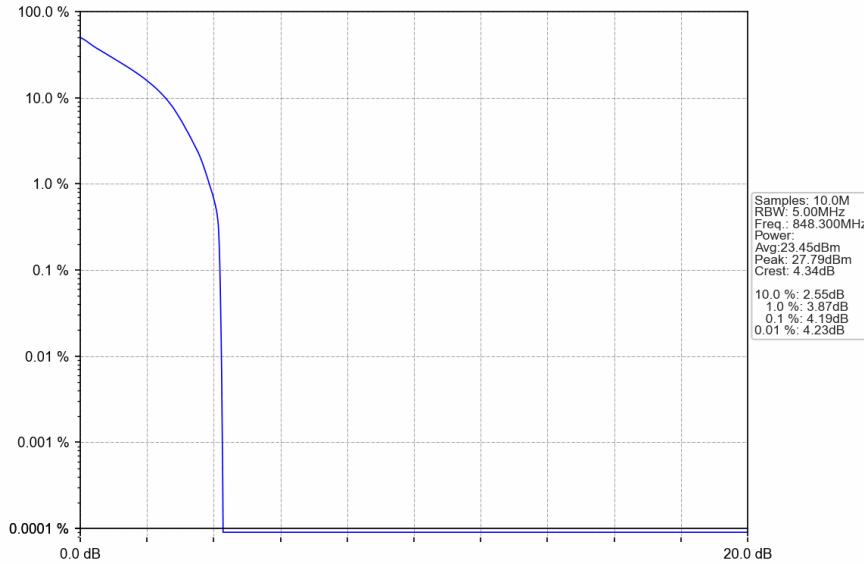
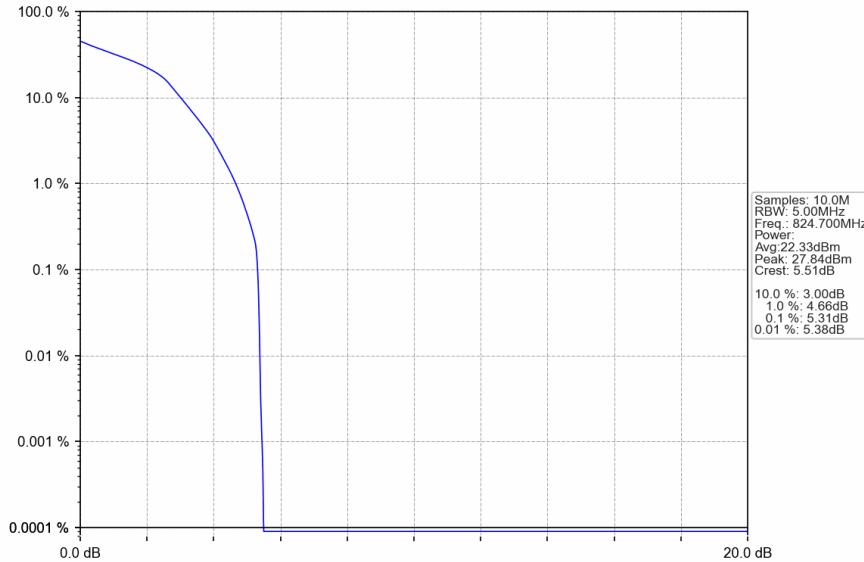


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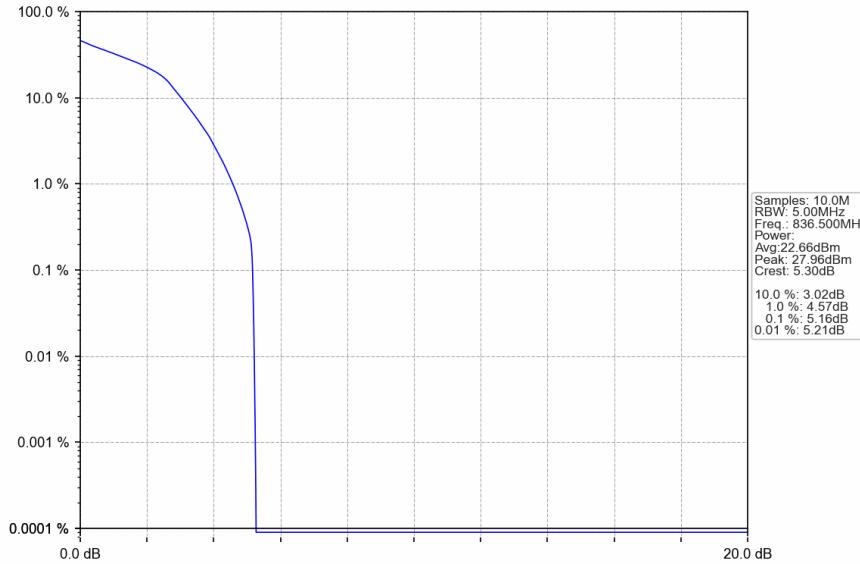
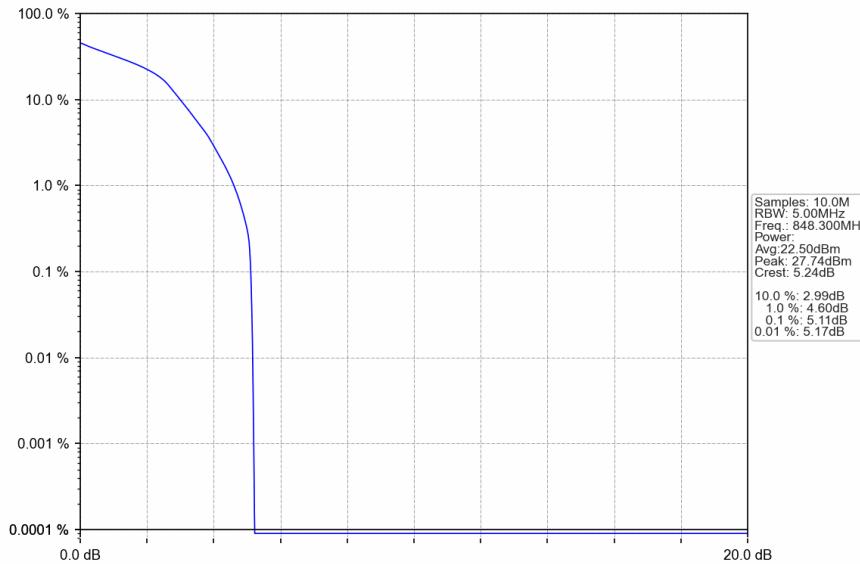
**Band5\_1.4MHz\_QPSK\_HCH\_848.3MHz\_RB\_6\_0\_NTNV****Band5\_1.4MHz\_16QAM\_LCH\_824.7MHz\_RB\_6\_0\_NTNV**

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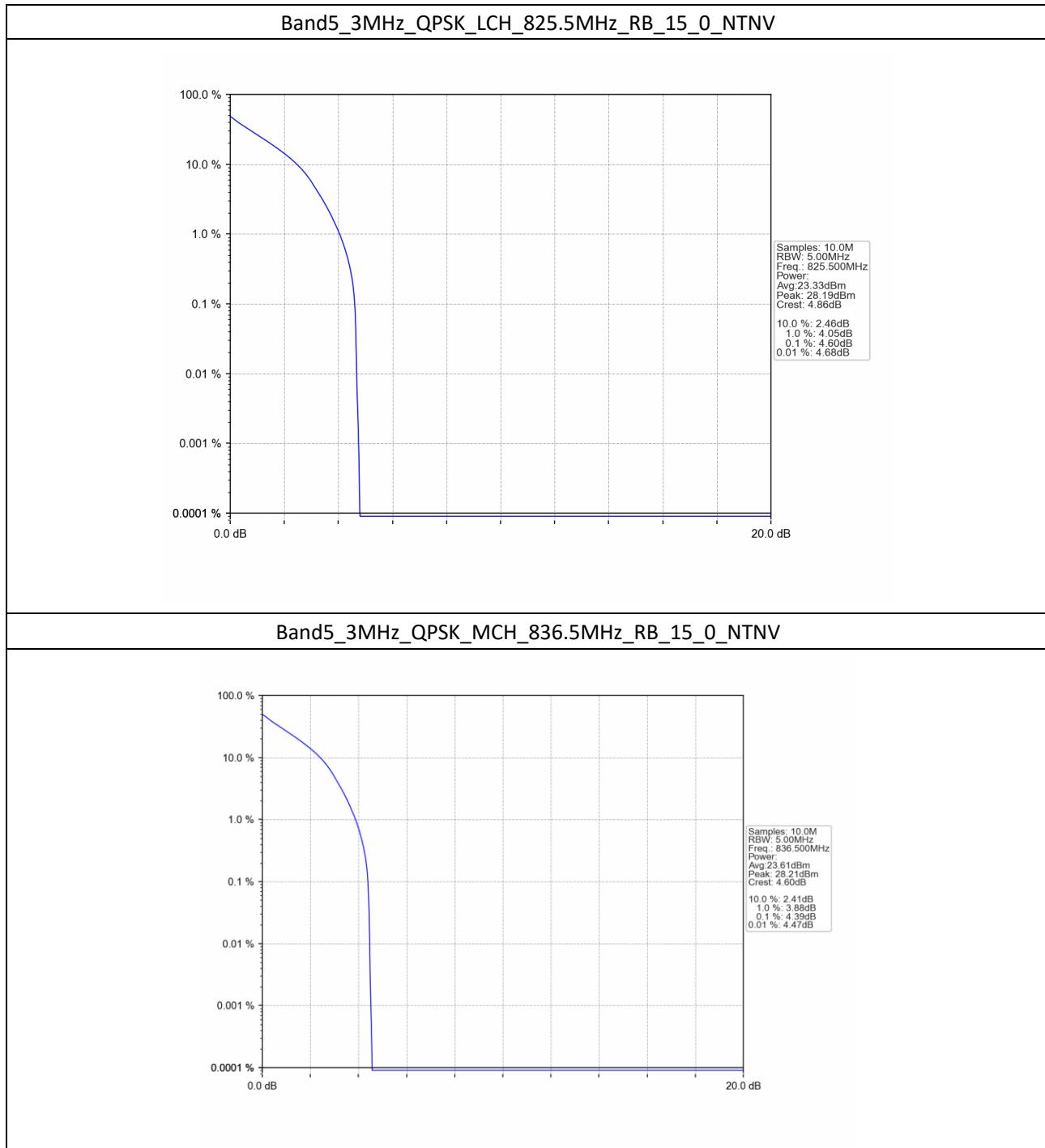
**Band5\_1.4MHz\_16QAM\_MCH\_836.5MHz\_RB\_6\_0\_NTNV****Band5\_1.4MHz\_16QAM\_HCH\_848.3MHz\_RB\_6\_0\_NTNV**

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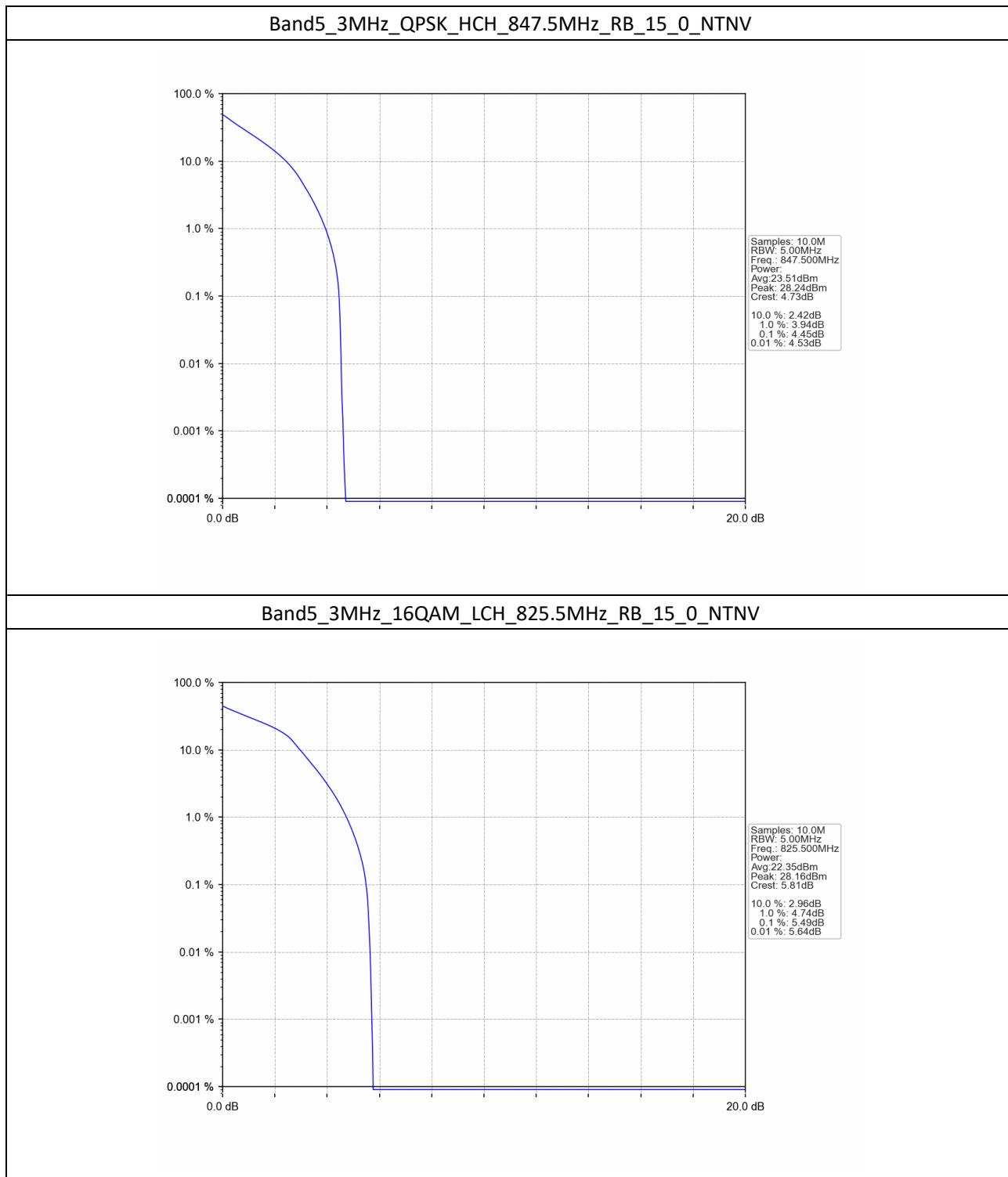
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**4.2.2 B5\_3MHz**

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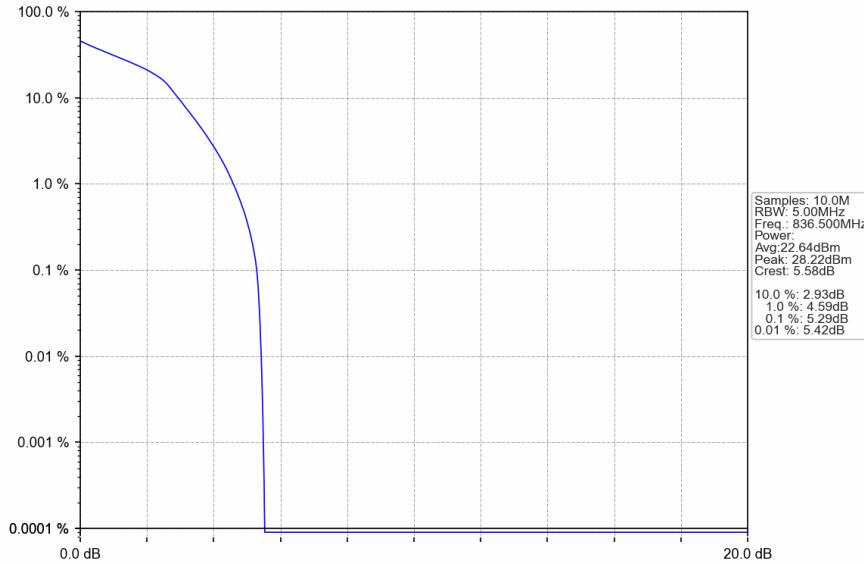
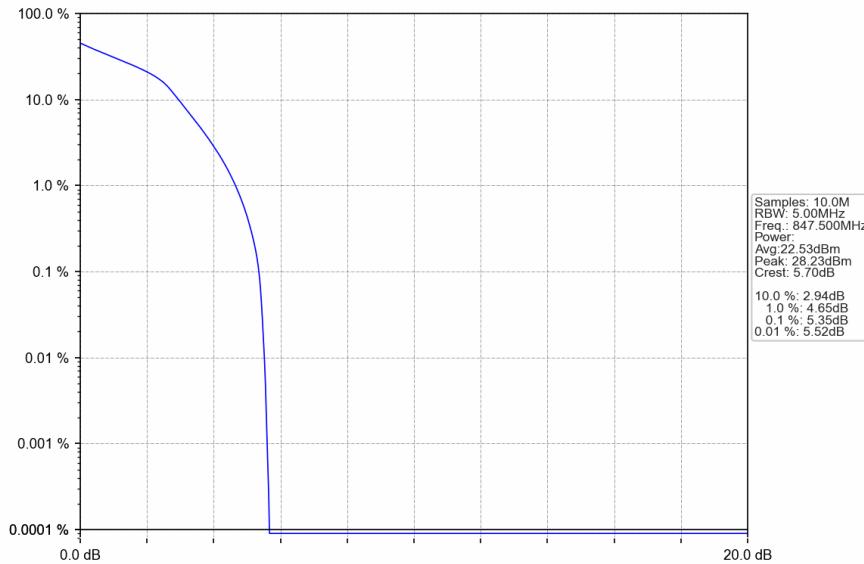
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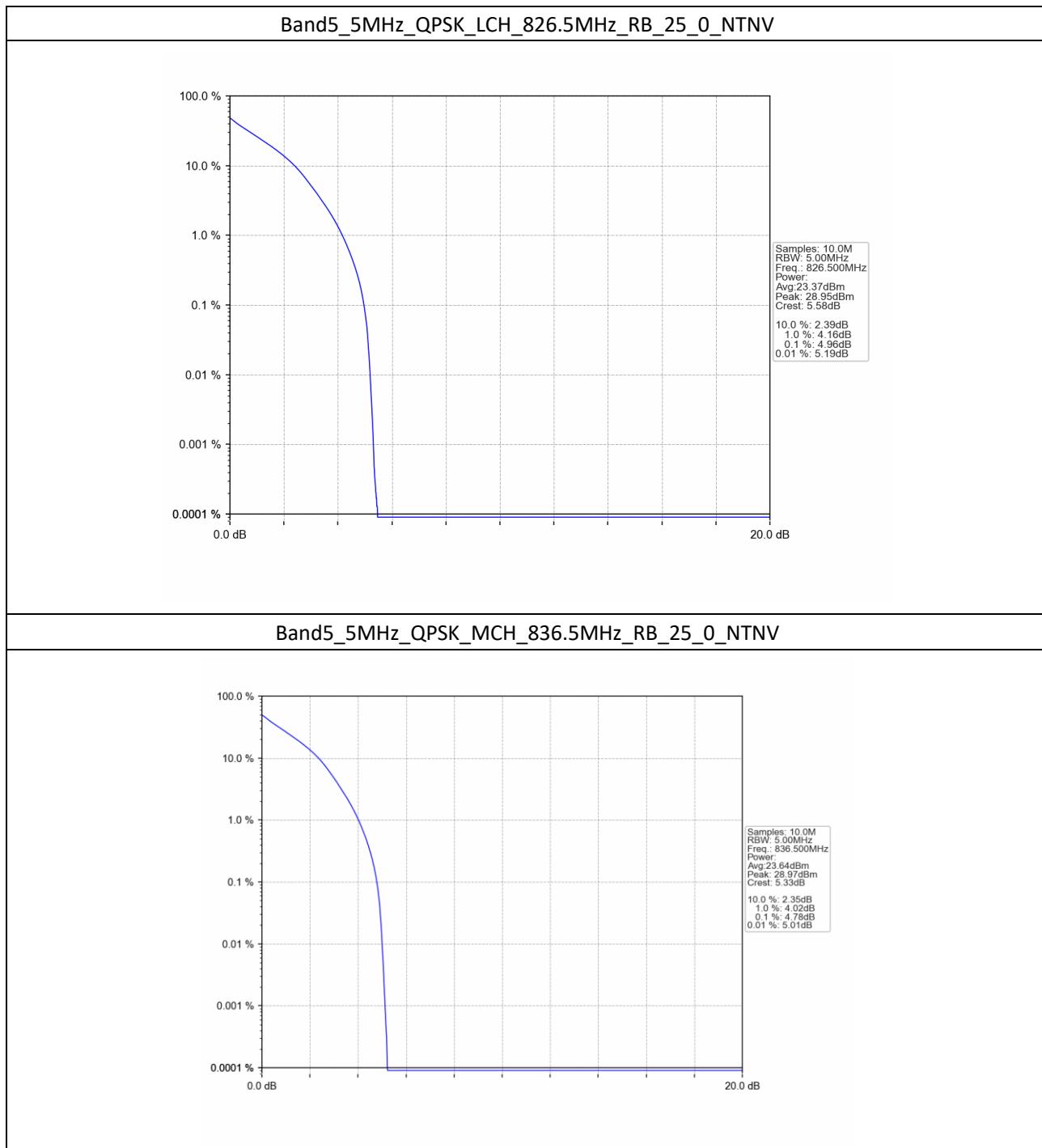
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**Band5\_3MHz\_16QAM\_MCH\_836.5MHz\_RB\_15\_0\_NTNV****Band5\_3MHz\_16QAM\_HCH\_847.5MHz\_RB\_15\_0\_NTNV**

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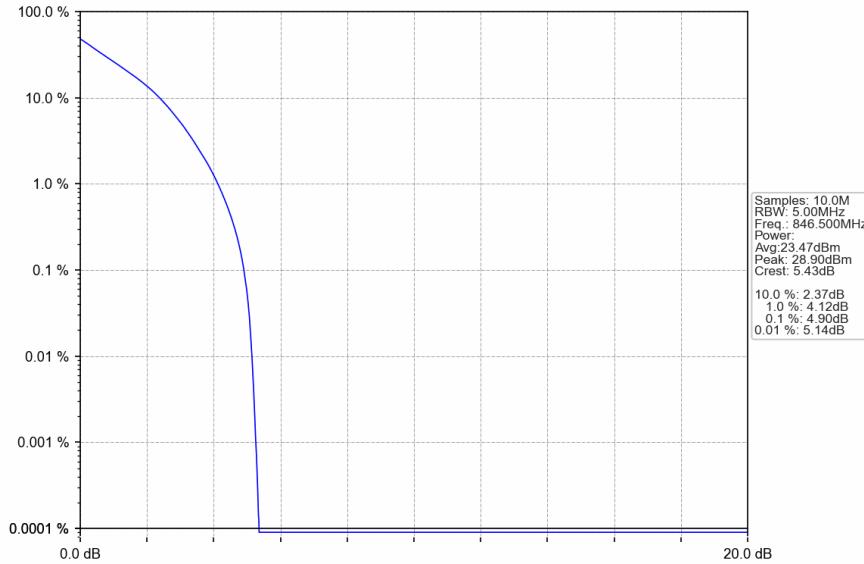
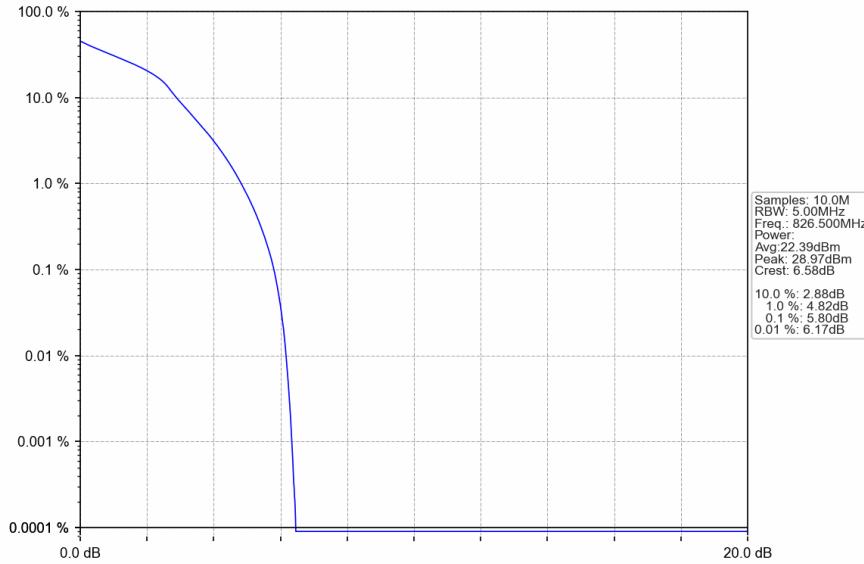
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**4.2.3 B5\_5MHz**

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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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